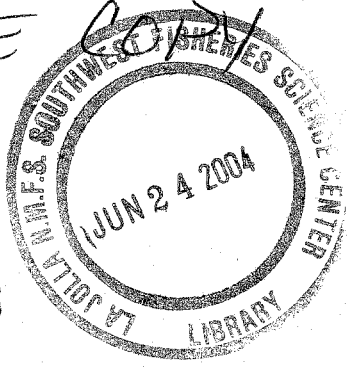


FILE COPY



# NOAA Technical Memorandum NMFS



SEPTEMBER 1987

## ICHTHYOPLANKTON AND STATION DATA FOR CALIFORNIA COOPERATIVE OCEANIC FISHERIES INVESTIGATIONS SURVEY CRUISES IN 1956

Elizabeth G. Stevens  
Richard L. Charter  
H. Geoffrey Moser  
Morgan S. Busby

NOAA-TM-NMFS-SWFC-84

U.S. DEPARTMENT OF COMMERCE  
National Oceanic and Atmospheric Administration  
National Marine Fisheries Service  
Southwest Fisheries Center

## NOAA Technical Memorandum NMFS

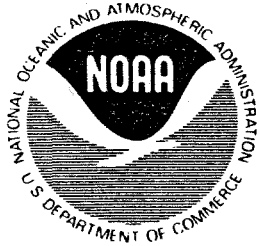
The National Oceanic and Atmospheric Administration (NOAA), organized in 1970, has evolved into an agency which establishes national policies and manages and conserves our oceanic, coastal, and atmospheric resources. An organizational element within NOAA, the Office of Fisheries is responsible for fisheries policy and the direction of the National Marine Fisheries Service (NMFS).

In addition to its formal publications, the NMFS uses the NOAA Technical Memorandum series to issue informal scientific and technical publications when complete formal review and editorial processing are not appropriate or feasible. Documents within this series, however, reflect sound professional work and may be referenced in the formal scientific and technical literature.

## **NOAA Technical Memorandum NMFS**

This TM series is used for documentation and timely communication of preliminary results, interim reports, or special purpose information; and have not received complete formal review, editorial control, or detailed editing.

**SEPTEMBER 1987**



# **ICHTHYOPLANKTON AND STATION DATA FOR CALIFORNIA COOPERATIVE OCEANIC FISHERIES INVESTIGATIONS SURVEY CRUISES IN 1956**

**Elizabeth G. Stevens**

**Richard L. Charter**

**H. Geoffrey Moser**

**Morgan S. Busby**

**Southwest Fisheries Center  
National Marine Fisheries Service  
La Jolla, CA 92038**

**NOAA-TM-NMFS-SWFC-84**

**U.S. DEPARTMENT OF COMMERCE**

**C. William Verity, Jr., Secretary**

**National Oceanic and Atmospheric Administration**

**Anthony J. Calio, Administrator**

**National Marine Fisheries Service**

**William E. Evans, Assistant Administrator for Fisheries**

## CONTENTS

	Page
List of Figures .....	iii
List of Tables .....	iv
Abstract .....	1
Introduction .....	1
Sampling Area and Pattern .....	2
Sampling Gear and Methods .....	3
Laboratory Procedures .....	4
Identification .....	5
Computer Entry and Editing .....	10
Species Summary .....	11
Explanation of Tables .....	11
Acknowledgments .....	12
Literature Cited .....	14
Figures .....	17
Tables .....	31
Index .....	185



## LIST OF FIGURES

	Page
Figure 1. Composite arrangement of diagrammatic charts showing areas sampled on each CalCOFI cruise during 1956 .....	17
Figure 2. Station pattern for CalCOFI Cruise 5601 showing tracks for each vessel .....	18
Figure 3. Station pattern for CalCOFI Cruise 5602 .....	19
Figure 4. Station pattern for CalCOFI Cruise 5603 .....	20
Figure 5. Station pattern for CalCOFI Cruise 5604 .....	21
Figure 6. Station pattern for CalCOFI Cruise 5605 .....	22
Figure 7. Station pattern for CalCOFI Cruise 5606 .....	23
Figure 8. Station pattern for CalCOFI Cruise 5607 .....	24
Figure 9. Station pattern for CalCOFI Cruise 5608 .....	25
Figure 10. Station pattern for CalCOFI Cruise 5609 .....	26
Figure 11. Station pattern for CalCOFI Cruise 5610 .....	27
Figure 12. Station pattern for CalCOFI Cruise 5611 .....	28
Figure 13. Station pattern for CalCOFI Cruise 5612 .....	29
Figure 14. The basic station plan for CalCOFI cruises from 1950 to the present .....	30

LIST OF TABLES

	Page
Table 1. Station and plankton tow data for CalCOFI cruises in 1956 .....	31
Table 2. Pooled occurrences of fish larvae taken during CalCOFI cruises in 1956 .....	66
Table 3. Pooled numbers of fish larvae taken during CalCOFI cruises in 1956 .....	69
Table 4. Numbers of fish larvae taken on stations occupied during CalCOFI cruises in 1956 .....	72
Table 5. Summary of pooled occurrences of fish larvae taken on CalCOFI cruises from 1951-1960 .....	180
Table 6. List of stations with multiple occupancies in one month during 1956 .....	184

## ABSTRACT

This report provides ichthyoplankton and associated station and tow data from California Cooperative Oceanic Fisheries Investigations (CalCOFI) cruises conducted off California and Baja California in 1956. It is the sixth report in a series that presents these data for all biological-oceanographic CalCOFI surveys from 1951 to the present. A total of 1407 stations was occupied during 12 monthly multivessel cruises over the quarter-million square mile survey area which extends from the California-Oregon border to Cape San Lucas, Mexico and seaward to several hundred miles. The data are listed in a series of 6 tables; the background, methodology, and information necessary for interpretation and quantitative analysis of the data are presented in an accompanying text. All pertinent station and tow data, including volumes of water strained and standard haul factors are listed in the first table. Another key table lists, by station and month, standardized counts of each of the 136 larval fish categories identified from survey samples. This and previous and subsequent reports make the CalCOFI ichthyoplankton and station data available to all investigators and serve as guides to the newly developed computer data base.

## INTRODUCTION

This report, the sixth of a series, provides ichthyoplankton and associated station and tow data from California Cooperative Oceanic Fisheries Investigations (CalCOFI) joint biological-oceanographic survey cruises conducted in 1956. The CalCOFI program was initiated in 1949, under the sponsorship of the Marine Research Committee of the State of California, to study the population fluctuations of the Pacific sardine (*Sardinops sagax*) and the environmental factors that may play a role in such fluctuations. CalCOFI, known as the California Cooperative Sardine Research Program from 1949 to 1953, was made up of representatives of the South Pacific Fisheries Investigations (SPFI) of the U.S. Fish and Wildlife Service [now the La Jolla Laboratory, National Marine Fisheries Service (NMFS)], the Scripps Institution of Oceanography (SIO), the California Department of Fish and Game (CDFG), the California Academy of Sciences (CAS) and the Hopkins Marine Station of Stanford University. The first three of these agencies supplied ships and personnel to conduct the sea surveys. NMFS processed the plankton samples and analyzed the ichthyoplankton from them. SIO processed and analyzed the hydrographic samples and measurements and also analyzed invertebrate groups from the plankton samples.

The boundaries, station placement, and sampling frequency for the CalCOFI survey area were based on the results of joint biological and oceanographic cruises conducted by NMFS and SIO during 1939-41. Those cruises were designed to collect sardine eggs and larvae and associated hydrographic data over the entire areal and seasonal spawning range of the species. On these survey cruises, plankton tows were made to 70 m, a depth which

encompassed the vertical distribution of sardine eggs and larvae. Wide-ranging joint biological and oceanographic survey cruises were resumed in 1949 with sardine as the focus; however, an increasing interest in other biological components resulted in the deepening of standard tows to 140 m in 1951. This marked the beginning of truly quantitative ichthyoplankton sampling on CalCOFI surveys.

Data resulting from CalCOFI surveys in 1956 have been published in a number of forms. Hydrographic data (Reid et al., 1963), zooplankton volumes (Thrailkill, 1957; Smith, 1971) and ichthyoplankton data for selected species (Ahlstrom, 1958) were presented in standard formats. The latter lists counts for eggs and larvae of sardine and for larvae of northern anchovy (*Engraulis mordax*), jack mackerel (*Trachurus symmetricus*), Pacific mackerel (*Scomber japonicus*), Pacific hake (*Merluccius productus*), and rockfishes (*Sebastes* spp.). Also, length frequencies are listed for sardine, anchovy, jack mackerel, and Pacific mackerel larvae. Distribution maps of larvae of 5 of these taxa taken on CalCOFI surveys during 1956 are presented in the CalCOFI Atlas series (Kramer and Ahlstrom, 1968; Ahlstrom, 1969; Kramer, 1970; Ahlstrom et al., 1978). Other atlases provided distribution maps of 6 mesopelagic fish larvae (Ahlstrom, 1972) and 8 flatfish taxa (Ahlstrom and Moser, 1975) taken during 1956.

A computer data base for eggs and larvae of sardine and anchovy and for larvae of hake, and the two mackerels was established in 1969. The development of a data base for other fish larvae is a complex undertaking because competency of identification has evolved steadily over the past 38 years. We began the task of producing a CalCOFI ichthyoplankton data base and associated data report series in 1983. All available original records for 1956 were subjected to an extensive verification and editing process to produce this report. This and previous (Ambrose et al., 1987a, b; Sandknop et al., 1987; Stevens et al., 1987; Sumida et al., 1987) and subsequent reports make the CalCOFI ichthyoplankton and station data available to all investigators and serve as guides to the computer data base. The data base will be modified when additional errors are discovered and when composite taxa from the earlier years are reidentified. These reports are the fundamental reference documents against which subsequent changes in the data base can be compared.

#### SAMPLING AREA AND PATTERN

In 1956, CalCOFI survey cruises were conducted at monthly intervals. A total of 1407 stations included in this data base was occupied on 12 cruises, with an average of 117 stations per cruise (range of 36-239). Coverage of the survey station pattern varied among cruises and the entire quarter-million square mile survey area was not covered on any single cruise (Figures 1-13; Table 1). The area off northern California (lines

40-57) was covered on only two cruises made in May and June. Coverage off central California (lines 60-77) was heavier, with stations occupied on 4 cruises, from April through July. The area between Point Conception and Pt. San Juanico, Baja California (lines 80-137) was occupied monthly from January through July; in August and September only lines 110-137 were occupied, and in October, November, and December, only lines 80 through 97. The area off southern Baja California (lines 140-157) was surveyed in January, February, and April. Coverage did not extend seaward of station 90 (approximately 160-250 miles offshore)<sup>1</sup> except on Cruise 5605 when station 100 was occupied on lines 90 through 103.

Six vessels were employed on 1956 CalCOFI cruises: the *Black Douglas* of NMFS, and the *Spencer F. Baird*, *Horizon*, *Orca*, *Paolina T.*, and *Stranger* of SIO. One to three vessels participated in each cruise. The *Black Douglas* was used on 6 cruises (March; May-September) and the *Stranger* was used on 5 cruises (January-May). The other vessels were used on 1-4 cruises (Ahlstrom, 1958).

#### SAMPLING GEAR AND METHODS

The standard CalCOFI net used from 1949 to 1969 had a 1-m diameter mouth opening (0.785 m<sup>2</sup> area) and an overall length of about 5 m. The net was constructed of 30xxx gauze, a heavy duty grade of silk bolting cloth, with a mesh size of 0.55 mm after shrinkage. The last 40 cm of the cone and the cod end were constructed of 56xxx grit gauze which had a mesh size of 0.25 mm after shrinkage. On five cruises during 1956, Cruises 5607 through 5611, the standard net was replaced with one constructed of nylon. Construction of the two nets was similar; however, the nylon nets had mesh sizes of 0.471 mm for the net body and 0.280 mm for the end of the cone and cod end. Nylon nets were also used on some cruises from 1957 through 1959, but then their use was discontinued until 1969 (Smith, 1971). The net ring was fastened to a short 3-lead bridle connected to several meters of line which attached to the towing cable by a clamp. A current

---

<sup>1</sup>CalCOFI lines (Figure 14) are arranged perpendicular to the coastline and extend from the Canadian border (line 10) to below Cape San Lucas, Baja California (line 157). Stations were established on the basis of a perpendicular to line 80 (off Pt. Conception) at a point designated as station 60. Stations were plotted seaward and shoreward from station 60 on each line. Cardinal CalCOFI lines (those ending in "0") are 120 miles apart and usually bracket two ordinal lines (ending in "3" or "7"), so that lines are 40 miles apart over most of the pattern. Cardinal stations are 40 miles apart and typically these are separated by a station number ending in "5" so that stations are 20 miles apart out to station 90 on most lines. Stations are placed at closer intervals near the coast and islands to accommodate these features (see Kramer et al., 1972 for further details).

meter was suspended in the center of the net mouth to measure volume of water filtered (see Kramer et al., 1972, for further details).

The standard tow from 1951 through 1968 was an oblique haul to 140 m depth (to 15 m of the bottom in shallow areas) designed to filter a constant amount of water per depth interval (ca.  $3\text{m}^3/\text{m}$  of depth) over the vertical range of most ichthyoplankters. Hauls were made at a ship speed of 1.5-2.0 knots and initiated by clamping the net line to the towing cable with the 45 kg terminal weight about 10-15 m below the surface. The net was lowered to 140 m depth by paying out 200 m of wire over a 4 minute period (35 m of depth/min.). After fishing at depth for 30 seconds, the net was retrieved at 20 m/min. (14 m depth/min.). The angle of stray of the towing cable was recorded every 30 seconds and maintained at  $45^\circ$  ( $\pm 3^\circ$ ) by adjusting the ship speed and course. After reaching the surface, the net was washed down and the samples preserved in 5% formalin buffered with sodium borate. Flowmeter readings were made at the beginning and end of each tow. Detailed descriptions of gear and methods are given by Ahlstrom (1953), Kramer et al. (1972), and Smith and Richardson (1977).

#### LABORATORY PROCEDURES

Laboratory processing began with the determination of a displacement volume for each sample (methods described in Staff, SPFI, 1953 and Kramer et al., 1972). Zooplankton volumes (including ichthyoplankton) of samples collected in 1956 are listed in Thrailkill (1957) and presented graphically in Smith (1971).

Sorting involved the removal of ichthyoplankton from the sample and identification and separation of eggs and larvae of selected species (see introduction). Usually, each sample was sorted completely; however, some of the samples were fractionated into aliquots using a Folsom plankton splitter (McEwen et al., 1954) prior to sorting. Several criteria<sup>2</sup> were used to determine whether a sample was fractionated: samples containing an abundance of thaliacians and coelenterates and exceeding 150 ml in total plankton volume were fractionated (to 50%, 25%, 12.5%, or 6.25%) to approximate a reduced volume of 50 ml for sorting; samples with an excessive quantity of fish eggs and/or larvae were occasionally fractionated to expedite the sorting process in order to meet scheduled deadlines. If the identified fraction of an aliquot yielded rare or interesting species of fish larvae, the remaining fraction was frequently sorted and identified with the intent of finding additional specimens. Aliquot percentages for

---

<sup>2</sup>Personal communication, James R. Thrailkill, National Marine Fisheries Service, Southwest Fisheries Center, La Jolla, CA.

fractioned samples from 1956 are listed in Table 1 under the "Percent Sorted" column; 54% of samples were fractioned.

A "standard haul factor" (SHF) was calculated for each tow to make them comparable and allow estimations of areal abundance. This factor adjusts the number of eggs or larvae in a haul to the number in 10 m<sup>3</sup> of water strained per meter of depth fished. If the vertical distribution of the species has been encompassed, then the adjusted value is equivalent to the number under 10 m<sup>2</sup> of sea surface. The SHF is calculated for each haul by the formula:

$$\text{SHF} = \frac{10 D}{V}$$

where D = depth of haul = cosine of the average angle of stray of the towing cable multiplied by cable length (m)

V = total volume of water (m<sup>3</sup>) strained during the haul

$$V = R \cdot a \cdot p$$

where R = total number of revolutions of the current meter during the haul

a = area (m<sup>2</sup>) of the mouth of the net

p = length of column of water (m) needed to produce one revolution of the current meter.

Tow depth, volume of water strained, and standard haul factor are listed in Table 1 for each tow taken during 1956. Detailed descriptions of factors involved in calculating these values are presented in Ahlstrom (1948), Kramer et al. (1972), and Smith and Richardson (1977).

## IDENTIFICATION

Identification of ichthyoplankton species beyond those separated during the sorting process was carried out by a separate group of specialists. Ontogenetic stages of fishes are inherently difficult to identify and this is further complicated by the large number and diversity of species which contribute to the ichthyoplankton of the California Current region. Most identifications were accomplished by establishing ontogenetic series on the basis of morphology, meristics, and pigmentation and then identifying these series by relating them to known metamorphic, juvenile, or adult stages with overlapping features (Powles and Markle, 1984). A total of 134 taxa, was identified for 1956, with 77 taken to species, 28 to genus, 23 to family, and 6 to order. Some of the developmental series recognized

originally could not be assigned scientific names, particularly in the Bathylagidae, Myctophidae, and Pleuronectiformes. These were given descriptive names, which later were changed to scientific names as they became known.

The task of producing a reliable and equitable ichthyoplankton data base required extensive procedures to verify, correct, and edit the original identifications. The primary data source was the original identification sheets (see Kramer et al., 1972, for examples); however, a critical resource used in all phases of this process was the CalCOFI ichthyoplankton collection in which the samples are archived. Throughout the course of CalCOFI ichthyoplankton studies, samples have been identified to the lowest taxon possible. In reviewing these identifications for the data base, our approach has been conservative and we have preserved those identifications and counts which we could confirm, while correcting as many of the errors as possible. During the coding of the identification sheets, the "descriptive types" were assigned scientific names and reexamined, if necessary. After computer entry, taxonomic errors and inconsistencies in the data base were corrected and the most obvious identification errors were corrected. Our current knowledge of ichthyoplankton techniques coupled with a precise understanding of the development of identification competency in the program over the years allowed us to critically judge the historical records. Identifications were changed to different taxa, lumped to a higher taxonomic category, or given a more precise taxonomic name. In many cases, identifications of a taxon were inconsistent among cruises in a year, because of varying competency of identifiers. These records were made equitable by lumping to the higher taxonomic category to avoid biases that could result in quantitative misinterpretations.

Next, statistical, seasonal, and geographic outliers were identified, employing a series of graphic summaries and listings. Examination of geographic outliers proved to be especially effective because of our accumulated knowledge of species distributions. In the course of examining samples for these outliers, other identification errors were discovered and eventually all taxa were scrutinized to some extent. Lastly, certain taxa were reexamined in all samples for the entire CalCOFI time series. These taxa were selected because of their commercial, ecological, phylogenetic, or zoogeographic importance or because taxonomic confusion was at the ordinal level. The following is a list of the taxa for 1956 which received special attention, with explanations and caveats intended to aid in quantitative interpretations:

Anguilliformes - tentative and sporadic identifications to family or lower taxon lumped to order.

*Sardinops sagax* - all specimens south of line 120 checked for misidentification of *Opisthonema* spp.



Engraulidae - includes nearshore taxa (mostly *Anchoa* spp.) large enough to separate from *Engraulis mordax*. Some nearshore samples of small *E. mordax* may contain other anchovy genera, but could not be differentiated.

*Nansenia* spp. - all specimens checked and identified as *N. candida* or *N. crassa*; all specimens of these species near their range boundaries checked.

*Leuroglossus schmidti* - all specimens checked.

Osmeridae - all specimens checked.

Sternoptychidae - tentative and sporadic identifications of hatchetfishes to genus were lumped to family.

*Bathophilus* spp. - all specimens checked.

Scopelarchidae - tentative and sporadic identifications to genus lumped to family.

*Lampanyctus* spp. - tentative and sporadic identifications to species (mostly descriptive types) lumped to genus; identification of *L. regalis* and *L. ritteri* begun in 1954.

*Lampanyctus regalis* - underrepresented because of inability to differentiate small larvae (<5 mm) from those of other species of the genus; counts may include other species of the genus because of difficulty in identifying larvae of this large and complex genus.

*Lampanyctus ritteri* - comment for *L. regalis* applies to this species.

*Diogenichthys atlanticus* - all specimens at margins of range checked.

*Diogenichthys laternatus* - all specimens at margins of range checked.

*Electrona rissoi* - recognition of this species was inconsistent and may be included in *Protomyctophum crockeri* or Myctophidae.

*Hygophum* spp. - all specimens reidentified to species; residuals are small, poorly preserved specimens.

*Myctophum aurolaternatum* - all specimens of "Astronesthidae" proved to be this species.

*Protomyctophum crockeri* - some samples on northern lines may contain *P. thompsoni*, which was not identified at the time; specimens on line 130 and south were checked.

- Symbolophorus californiensis* - all specimens south of line 120 checked for confusion with *Hygophum* spp., stemming from descriptive names.
- Physiculus* spp. - all gadiform types (see Index), except *Merluccius productus* and Macrouridae, reexamined.
- Ophidiiformes - this category did not exist originally and ophidiiform larvae were included in *Brosmophysis marginata*, Carapidae, "Otophidium", "Zoarcidae", and "blenny"; identifications of *B. marginata* and Carapidae proved to be mostly correct and "Zoarcidae" to be a yet unidentified ophidiiform species; all "Otophidium" and "blenny" were reexamined and the former included *Ophidion scrippsae*, *Chilara taylori* and other ophidiiform taxa (moved to order); "blenny" contained *O. scrippsae*, *C. taylori*, and other ophidiiform taxa in addition to true blennioids.
- Ceratioidei - identifications of this group were inconsistent and additional specimens may be in the unidentified fish larva category.
- Trachipteridae - tentative and sporadic identifications to genus were lumped to family.
- Melamphaes* spp. - all identifications ascribed to Melamphaidae were reexamined and assigned to genus (*Melamphaes*, *Poromitra*) or species (*Scopelogadus bispinosus*); larvae originally identified as *Melamphaes* spp. were not reexamined and this category may contain other melamphaid genera.
- Cottidae - some samples may include specimens of *Scorpaenichthys marmoratus*, hexagrammids (e.g., *Oxylebius pictus*, *Zaniolepis* spp.), and some blennioids (e.g., *Hypsoblennius* spp.).
- Oxylebius pictus* - all specimens checked and some reassigned to *Zaniolepis* spp.
- Zaniolepis* spp. - not identified originally; specimens recently identified from *Oxylebius pictus*.
- Sebastes* spp. - in addition to other scorpaenid genera, category includes some *Prionotus* spp., and other spiny-headed shorefishes, particularly in samples south of line 120.
- Sebastolobus* spp. - this category is underrepresented and additional specimens may be in *Sebastes* spp.
- Blennioidei - this is the residual of the completely reexamined "blenny" category, which also contained various misidentified ophidiiforms, and is now restricted to members of northern stichaeioid families and true blennioids (other than *Hypsoblennius* spp.) in the southern part of the pattern).

*Hypsoblennius* spp. - some specimens remain in Cottidae.

Labridae - tentative and sporadic identifications to genus were lumped to family.

Pomacentridae - specimens checked; now includes species other than *Chromis punctipinnis*, primarily in the south.

*Chromis punctipinnis* - records south of about line 120 may include other pomacentrid taxa.

*Mugil* spp. - all specimens checked.

Carangidae - all specimens checked; tentative and sporadic identifications to genus or species (except *Trachurus symmetricus* and *Seriola lalandi*) were lumped to family.

*Seriola lalandi* - all specimens checked.

Gerreidae - larvae of this family and other shorefishes (e.g., Haemulidae, Mullidae, Priacanthidae) were not identified and may be in the unidentified fish larva category.

*Girella nigricans* - all specimens examined.

*Medialuna californiensis* - all specimens examined.

*Caulolatilus princeps* - all specimens examined.

Sciaenidae - tentative and sporadic identifications to genus lumped to family; some specimens may be in the unidentified fish larva category.

Serranidae - this family is underrepresented and some specimens may be in the unidentified fish larva category or may have been misidentified as *Sebastes* spp.

Scombridae - all larvae identified to this family or constituent taxa (except *Scomber japonicus*) were reexamined and reassigned.

Nomeidae - absence of this family attributed to misidentification or placement in unidentified fish larva category.

Pleuronectiformes - all available specimens of this category (originally called "flatfish") were examined and reidentified; residuals are small, poorly preserved specimens.

Bothidae - all specimens examined and reassigned; all were assigned to various paralichthyid genera or to *Bothus* spp.

*Citharichthys* spp. - all larvae identified to genus or a species of the genus from 1954 through 1960 were checked and reidentified to species; residuals are small, poorly

preserved specimens or those with variable taxonomic characters.

*Hippoglossina* spp. - all specimens of this genus (originally called "pigmented bothid") were examined and assigned to *H. stomata*.

*Paralichthys* spp. - all specimens of this genus were examined and most were assigned to *P. californicus* or *Xystreureys liolepis*.

*Syacium ovale* - all specimens examined (originally called "spiny-headed bothid").

*Xystreureys liolepis* - originally misidentified as *Paralichthys californicus*; all specimens reidentified.

*Glyptocephalus zachirus* - all specimens examined.

*Microstomus pacificus* - all specimens examined.

*Pleuronichthys* spp. - all larvae of this genus and constituent species were examined and assigned to species; residuals are small, poorly preserved specimens.

*Psettichthys melanostictus* - all specimens examined.

#### COMPUTER ENTRY AND EDITING

Each taxon on the original identification sheets was given a 3-digit code based on the list of codes in Haight et al. (1979). Taxon codes and counts from these sheets were keypunched by cruise and station, along with pertinent station and tow data and entered into the VAX 11/780 computer at the University of California, San Diego Computing Center. After entries were completed for an entire year, print-out listings of taxa and counts on each station were compared with the original data sheets to eliminate keypunch errors. Next, data in the file were cross-checked with data on an existing file which contained: station and tow data; numbers of eggs of sardine, anchovy, and saury (*Cololabis saira*); numbers of larvae of sardine, anchovy, hake, jack mackerel, and Pacific mackerel; total number of fish eggs; and total number of fish larvae.

Discrepancies in ichthyoplankton data in these two files were corrected by inspecting original records from the sorting laboratory, the original ichthyoplankton identification sheets, and the samples themselves. Station and tow data discrepancies between the two files were corrected by reviewing ships' logs and deck tow sheets, original records from the sorting laboratory, cruise announcements, publications, header information on the ichthyoplankton identification sheets, and station plots generated for each cruise. Eventually all station and tow data were checked by comparing these sources.

The corrected ichthyoplankton data base was then examined statistically and outliers were found and checked as above. Distributional plots were then prepared for each taxon and these were checked by reviewing the data sources mentioned above and by examining archived specimens. A listing of each taxon by station (Table 4) was produced, which became the primary document for subsequent checks. Misidentifications found in geographic outlier checks and other misidentifications and data problems discovered in the course of examining archived samples resulted in several iterations of Table 4. Finally, totals in Table 4 were checked against annual summaries of incidence and abundance (Tables 2 and 3). Ecological analyses of the data (Moser et al., 1987) were conducted concurrently with editing procedures and provided cross-checks that allowed correction of errors.

### SPECIES SUMMARY

Larvae of the anchovy (*Engraulis mordax*) constituted 33% of all larvae collected during 1956 CalCOFI cruises, and with the larvae of Pacific hake (*Merluccius productus*), which constituted 22%, made up 55% of the total larvae collected in that year (Tables 2 and 3). These two species ranked 2nd and 5th in occurrences, respectively. The next most abundant taxon, *Sebastes* spp., constituted 7.1% of the total number of larva, but ranked 1st in number of occurrences. The next two most abundant species, *Leuroglossus stilbius*, a deepsea smelt, and *Stenobranchius leucopsarus*, a lanternfish, contributed 4.5% and 3.7% of the total fish larvae and ranked 3rd and 4th in occurrences. The 5 top-ranking taxa accounted for over 70% of larvae collected in 1956. Sardine larvae, *Sardinops sagax*, ranked 6th in numbers, 3.7%, and 14th in occurrence. The 7th most abundant larva was the lanternfish *Triphoturus mexicanus*, which ranked 6th in occurrence. The 8th most abundant was the sanddab *Citharichthys fragilis*, which ranked 24th in occurrence; its high ranking resulted from several large collections in July and August south of line 110. The 9th in abundance and occurrence was the gonostomatid *Vinciguerria lucetia*. Jack mackerel, *Trachurus symmetricus*, ranked 10th in abundance (2.6% of total larvae) and 11th in number of occurrences. The 10 top-ranking larvae contributed 84% of the larvae taken in 1956. The remaining 16% were distributed among 124 taxa, plus the unidentified and disintegrated categories.

### EXPLANATION OF TABLES

Table 1 - This table lists by cruise the pertinent station and tow data for 1956, the volume of water filtered and standard haul factor for each tow, the percent of sample sorted, and the total numbers of fish eggs and larvae. CalCOFI cruises are designated by four digits; the first two indicate the year and the second two the month. Within each cruise the data are listed in order of increasing line and station number (southerly and

seaward directions); the order of station occupancy is shown on the station charts (Figures 2-13). Stations are designated by two groups of digits; the first set indicates the line and decimal fraction and the second set indicates the station on the line. Decimal fractions were used only for line 118.5 on cruises 5608 and 5609. Time is listed as Pacific Standard Time at the start of each tow in 24-hour designation. Methods for determining tow depth, volume of water strained, standard haul factor, and percent sorted were described in the methods section. The values for total fish eggs and larvae represent raw counts (unadjusted for percent sorted or standard haul factor). Ship codes are as follows: BD, *Black Douglas*; SB, *Spencer F. Baird*; HO, *Horizon*; OR, *Orca*; PT, *Paolina T*; ST, *Stranger*.

- Table 2 - This table lists pooled occurrences of all larval fish taxa taken during 1956 in ranked order.
- Table 3 - This table lists pooled counts of all larval fish taxa taken during 1956 in ranked order. Numbers are adjusted for percent sorted and standard haul factors.
- Table 4 - This table gives numbers of fish larvae for each taxon, listed by station and calendar month in which the tow was taken. Counts are adjusted for percent of sample sorted and standard haul factor. Average values are given for stations occupied more than once during a month. See Table 1 for station and tow data and Table 6 for listing of stations with multiple occupancies during a month. Multiple occupancies occurred when a station was occupied more than once during a calendar month; in some cases multiple occupancies resulted from separate cruises. The orders are listed in "phylogenetic" sequence modified from Nelson (1984). Subtaxa within each order are listed alphabetically. Page numbers for each taxon are given in the index at the end of the report.
- Table 5 - This table is a summary of pooled occurrences of all larval fish taxa taken on CalCOFI surveys from 1951 to 1960. Taxa are listed in the same order as in Table 4.
- Table 6 - List of stations with multiple occupancies in one month during 1956.

#### ACKNOWLEDGMENTS

Elbert Ahlstrom, Lois Hunter, and David Kramer originally identified larvae from CalCOFI cruises of 1956. Ronald Whyte and Douglas Hammond coded each larval fish taxon or type and Rita Ford entered them into the computer. Debby Snow efficiently assisted in all aspects of data editing and retrieval. Cindy

Meyer, Larry Zins, and James Ryan provided programming assistance. Dorothy Roll designed the CalCOFI data acquisition system and provided data processing support. Ken Raymond, Roy Allen, and Henry Orr helped with graphics and production of the report. Lorraine Prescott and Diane Forsythe prepared the manuscript for printing. Paul Smith determined statistical outliers, provided assistance during geographical outlier checks and offered helpful suggestions throughout the project. Izadore Barrett, Director of the Southwest Fisheries Center and Reuben Lasker, Chief, Coastal Fisheries Resources Division, SWFC, provided the support critical to the completion of the project. James Thrailkill planned CalCOFI surveys and supervised cruises, data handling, and plankton sorting from 1949 to 1986 and is largely responsible for the high quality of these operations. Without the vision and direction of Elbert Ahlstrom and Elton Sette and the dedicated efforts of the many people who collected, processed, and analyzed the samples, this data base would not exist.

## LITERATURE CITED

- Ahlstrom, E. H. 1948. A record of pilchard eggs and larvae collected during surveys made in 1939 to 1941. U.S. Fish Wildl. Serv. SSRF 54, 82 p.
- Ahlstrom, E. H. 1953. Pilchard eggs and larvae and other fish larvae, Pacific Coast - 1951. U.S. Fish Wildl. Serv. SSRF 102, 55 p.
- Ahlstrom, E. H. 1958. Sardine eggs and larvae and other fish larvae, Pacific coast, 1956. U.S. Dept. Interior, Fish and Wildl. Serv. SSRF 251, 84 p.
- Ahlstrom, E. H. 1969. Distributional atlas of fish larvae in the California Current region: jack mackerel, *Trachurus symmetricus*, and Pacific hake, *Merluccius productus*, 1951 through 1966. CalCOFI Atlas No. 11:xi + 187 p.
- Ahlstrom, E. H. 1972. Distributional atlas of fish larvae in the California Current region: six common mesopelagic fishes - *Vinciguerria lucetia*, *Triphoturus mexicanus*, *Stenobranchius leucopsarus*, *Leuroglossus stilbius*, *Bathylagus wesethi*, and *Bathylagus ochotensis*, 1955 through 1960. CalCOFI Atlas No. 17: xv + 306 p.
- Ahlstrom, E. H. and H. G. Moser. 1975. Distributional atlas of fish larvae in the California Current region: Flatfishes, 1955 through 1960. CalCOFI Atlas No. 23: xix + 207 p.
- Ahlstrom, E. H., H. G. Moser, and E. M. Sandknop. 1978. Distributional atlas of fish larvae in the California Current region: Rockfishes, *Sebastes* spp., 1950 through 1975. CalCOFI Atlas No. 26: xxi + 178 p.
- Ambrose, D. A., R. L. Charter, H. G. Moser, and C. R. Santos Methot. 1987a. Ichthyoplankton and station data for California Cooperative Oceanic Fisheries Investigations survey cruises in 1951. U.S. Dep. Commer. NOAA Tech. Memo., NMFS, SWFC, No. 79, 196 p.
- Ambrose, D. A., R. L. Charter, H. G. Moser, and C. R. Santos Methot. 1987b. Ichthyoplankton and station data for California Cooperative Oceanic Fisheries Investigations survey cruises in 1955. U.S. Dep. Commer., NOAA Tech. Memo., NMFS, SWFC, No. 83, 185 p.
- Haight, C. A., H. G. Moser, and P. E. Smith. 1979. Data entry programs: CalCOFI. II. Fish eggs and larvae identification sheet. National Marine Fisheries Service, Southwest Fisheries Center, La Jolla, Admin. Rept. No. LJ-79-25.



- Kramer, D. 1970. Distributional atlas of fish eggs and larvae in the California current region: Pacific sardine, *Sardinops caerulea* (Girard), 1951 through 1966. CalCOFI Atlas No. 12:vi + 277 p.
- Kramer, D. and E. H. Ahlstrom. 1968. Distributional atlas of fish larvae in the California Current region: Northern anchovy, *Engraulis mordax* (Girard), 1951 through 1965. CalCOFI Atlas No. 9: xi + 269 p.
- Kramer, D., M. Kalin, E. G. Stevens, J. R. Thrailkill, and J. R. Zweifel. 1972. Collecting and processing data on fish eggs and larvae in the California Current Region. NOAA Tech. Rep. NMFS Circ. 370, 38 p.
- McEwen, G. F., M. W. Johnson, and T. R. Folsom. 1954. A statistical analysis of the performance of the Folsom Plankton Sample Splitter, based on test observations. Arch. Meteor. Geophys. Bioklim. Ser. A, 7:502-527.
- Moser, H. G., P. E. Smith, and L. E. Eber. 1987. Larval fish assemblages in the California Current region during 1954-1960, a period of dynamic environmental change. CalCOFI Rep. 28:97-127.
- Nelson, J. S. 1984. Fishes of the world. John Wiley and Sons, N.Y., 523 p.
- Powles, H. and D. F. Markle. 1984. Identification of larvae, p. 31-33. In: Ontogeny and systematics of fishes. H. G. Moser, W. J. Richards, D. M. Cohen, M. P. Fahay, A. W. Kendall, Jr., and S. L. Richardson (eds.). Spec. Publ. No. 1. Amer. Soc. Ichthyol. Herpetol., 760 p.
- Reid, J. L., Jr., R. S. Arthur, and E. B. Bennett, (eds.). 1963. Oceanic observations of the Pacific: 1956. Univ. Calif. Press, Berkeley, 458 p.
- Sandknop, E. M., R. L. Charter, H. G. Moser, and J. D. Ryan. 1987. Ichthyoplankton and station data for California Cooperative Oceanic Fisheries Investigations survey cruises in 1952. U.S. Dep. Commer., NOAA Tech. Memo., NMFS, SWFC, No. 80, 207 p.
- Smith, P. E. 1971. Distributional atlas of zooplankton volume in the California Current region, 1951 through 1966. CalCOFI Atlas No. 13: xvi + 144 p.
- Smith, P. E. and S. L. Richardson. 1977. Standard techniques for pelagic fish egg and larva surveys. FAO Fish. Tech. Pap. No. 175, 100 p.
- Staff, South Pacific Fishery Investigations. 1953. Zooplankton volumes off the Pacific Coast, 1952. U.S. Fish Wildl. Serv. SSRF 100, 41 p.

Stevens, E. G., R. L. Charter, H. G. Moser, and M. S. Busby. 1987. Ichthyoplankton and station data for California Cooperative Oceanic Fisheries Investigations survey cruises in 1953. U.S. Dep. Commer., NOAA Tech. Memo., NMFS, SWFC, No. 81, 186 p.

Sumida, B. Y., R. L. Charter, H. G. Moser, and D. L. Snow. 1987. Ichthyoplankton and station data for California Cooperative Oceanic Fisheries Investigations survey cruises in 1954. U.S. Dep. Commer. NOAA Tech. Memo., NMFS, SWFC, No. 82, 207 p.

Thraillkill, J. R. 1957. Zooplankton volumes off the Pacific coast. 1956. U.S. Dept. Interior, Fish and Wildl. Serv., SSRF 232, 50 p.

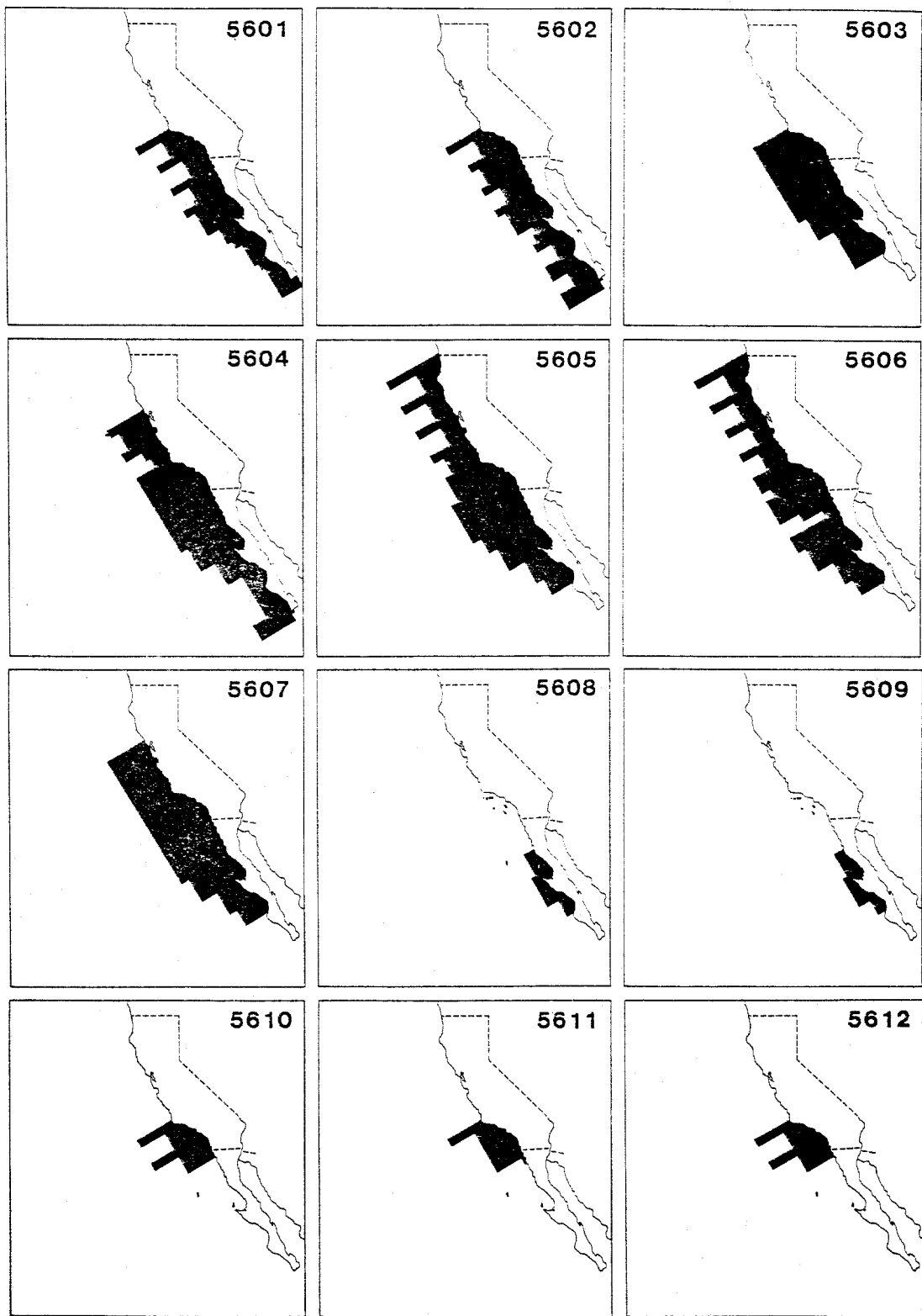


Figure 1. Composite arrangement of diagrammatic charts showing areas sampled on each CalCOFI cruise during 1956.

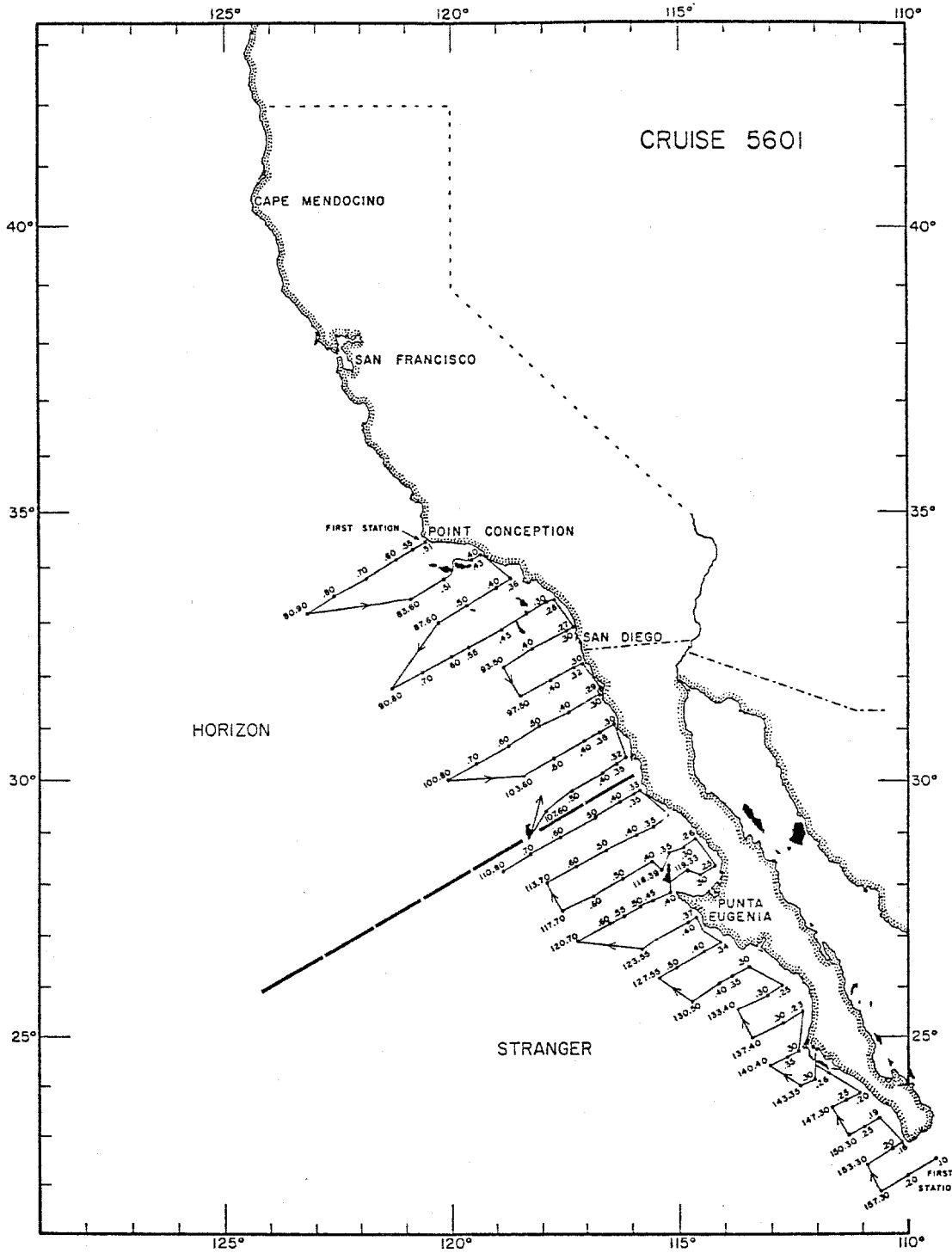


Figure 2. Station pattern for CalCOFI Cruise 5601 showing track for each vessel. Stations with plankton tows indicated by a dot. Modified from charts in Reifel al. (1963) to include only those stations listed Table 1 of this report.

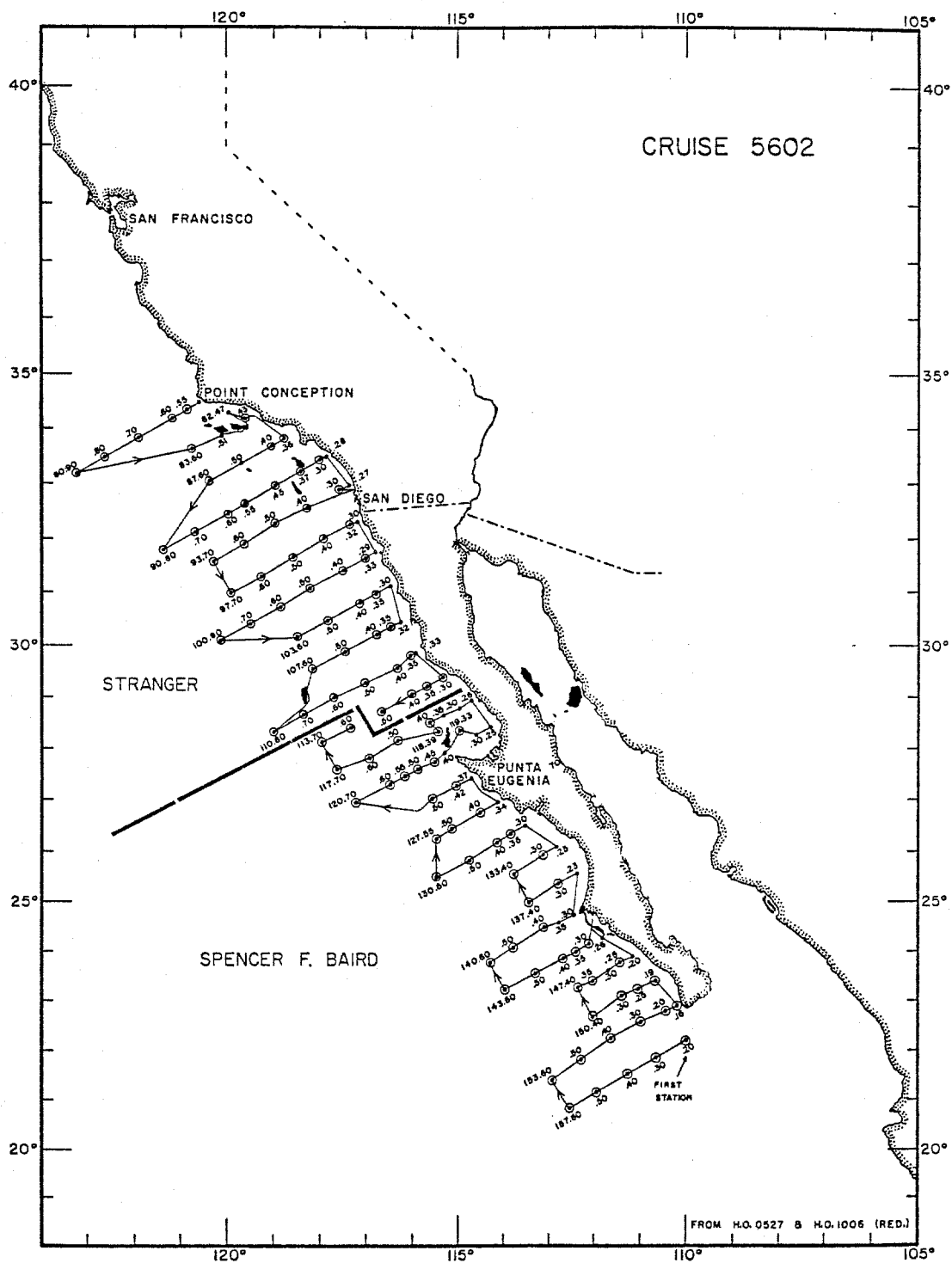


Figure 3. Station pattern for CalCOFI Cruise 5602. Stations with plankton tows only are indicated by a dot; those with plankton tows and hydrographic measurements are indicated by a dot and circle.

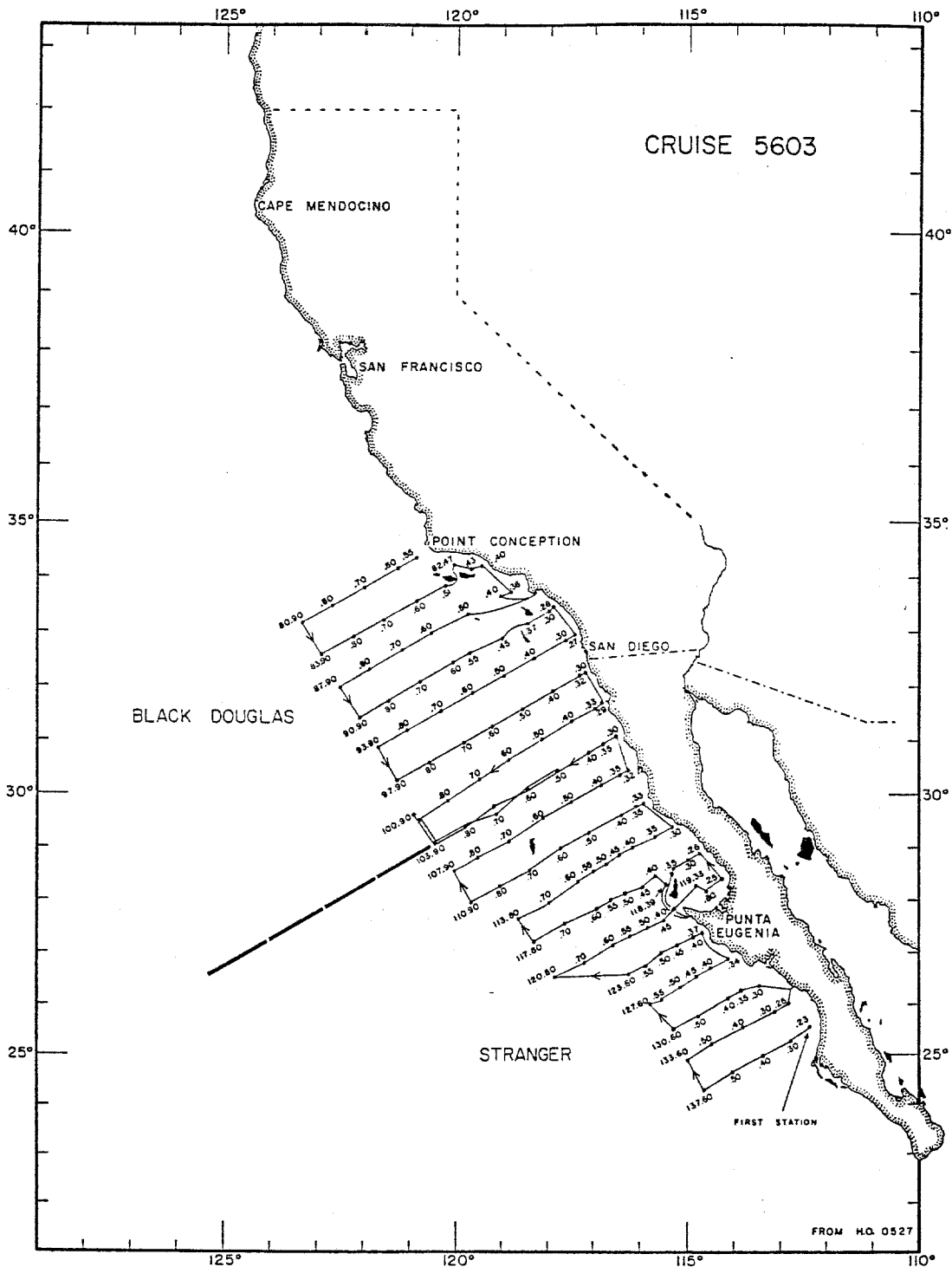


Figure 4. Station pattern for CalCOFI Cruise 5603. Symbols as Figure 2.

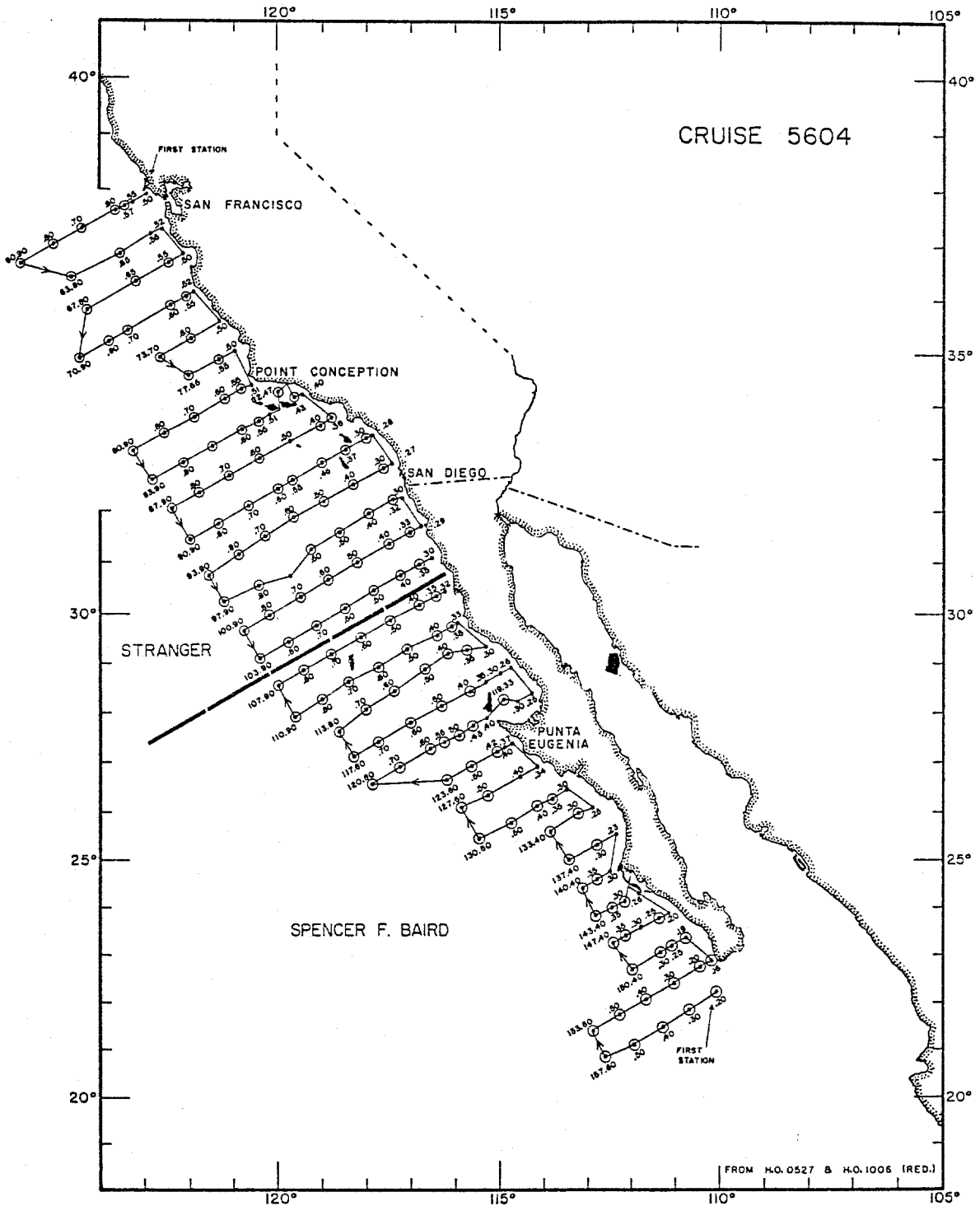


Figure 5. Station pattern for CalCOFI Cruise 5604. Symbols as in Figure 3.

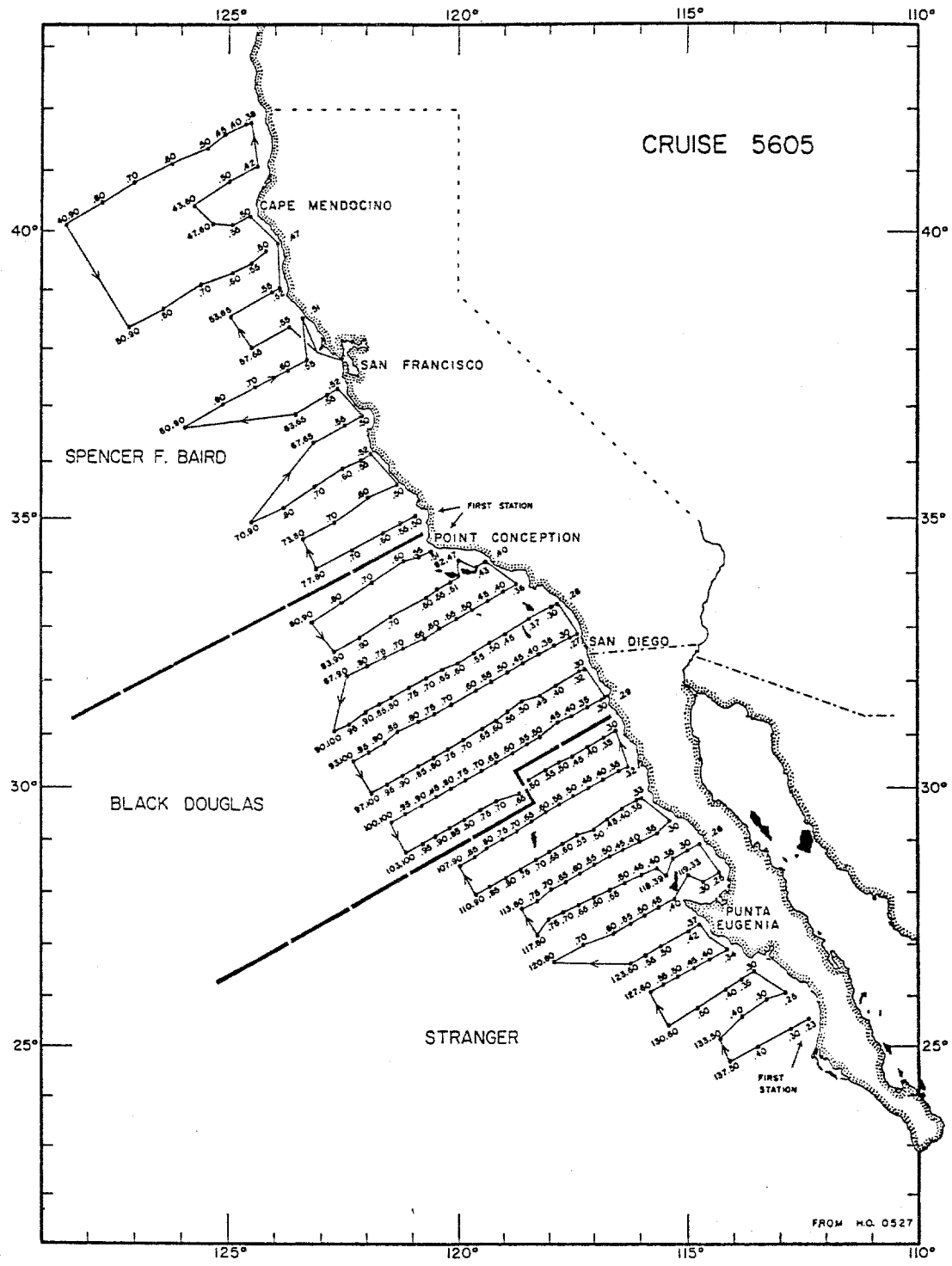


Figure 6. Station pattern for CalCOFI Cruise 5605. Symbols as in Figure 2.



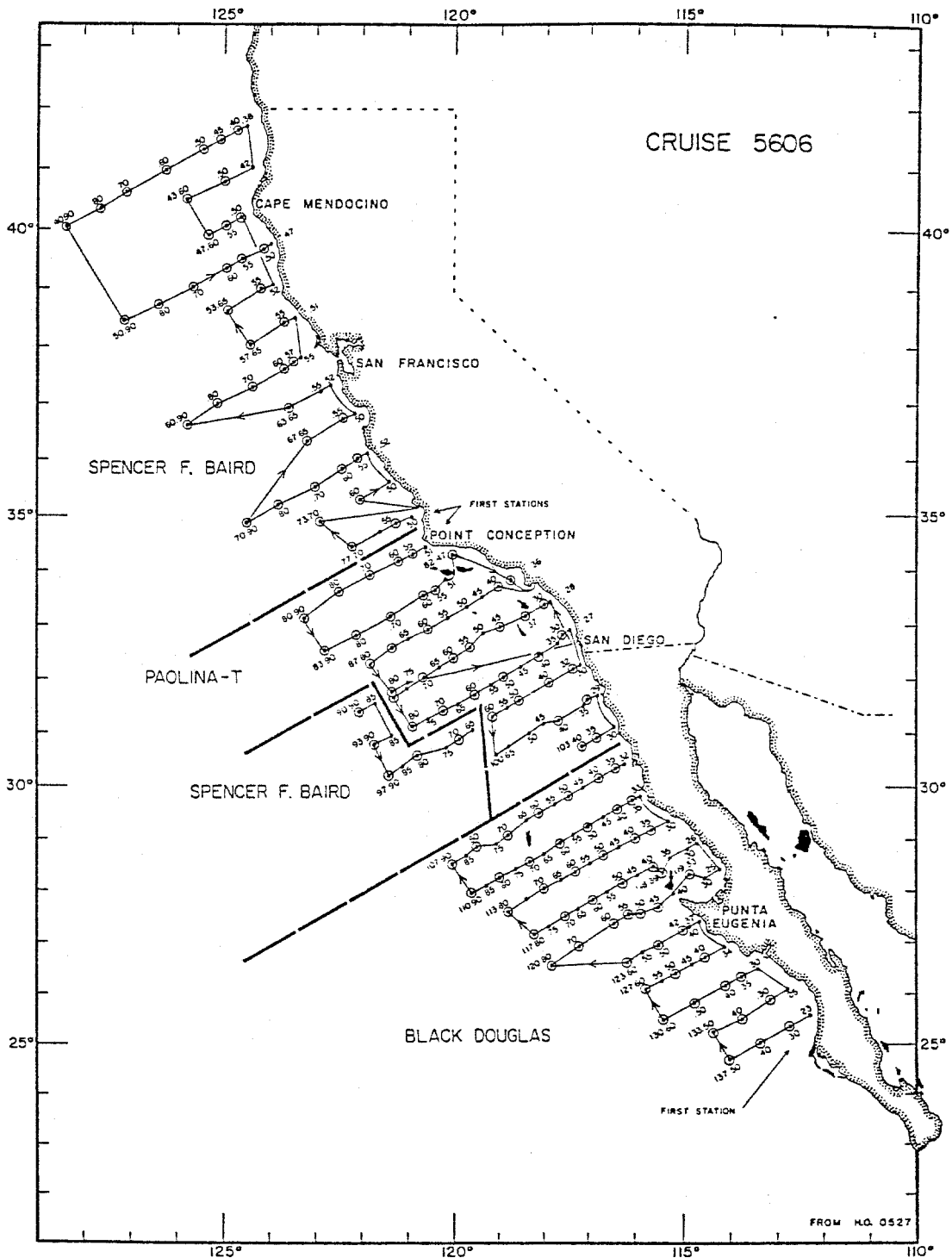


Figure 7. Station pattern for CalCOFI Cruise 5606. Symbols as in Figure 3.

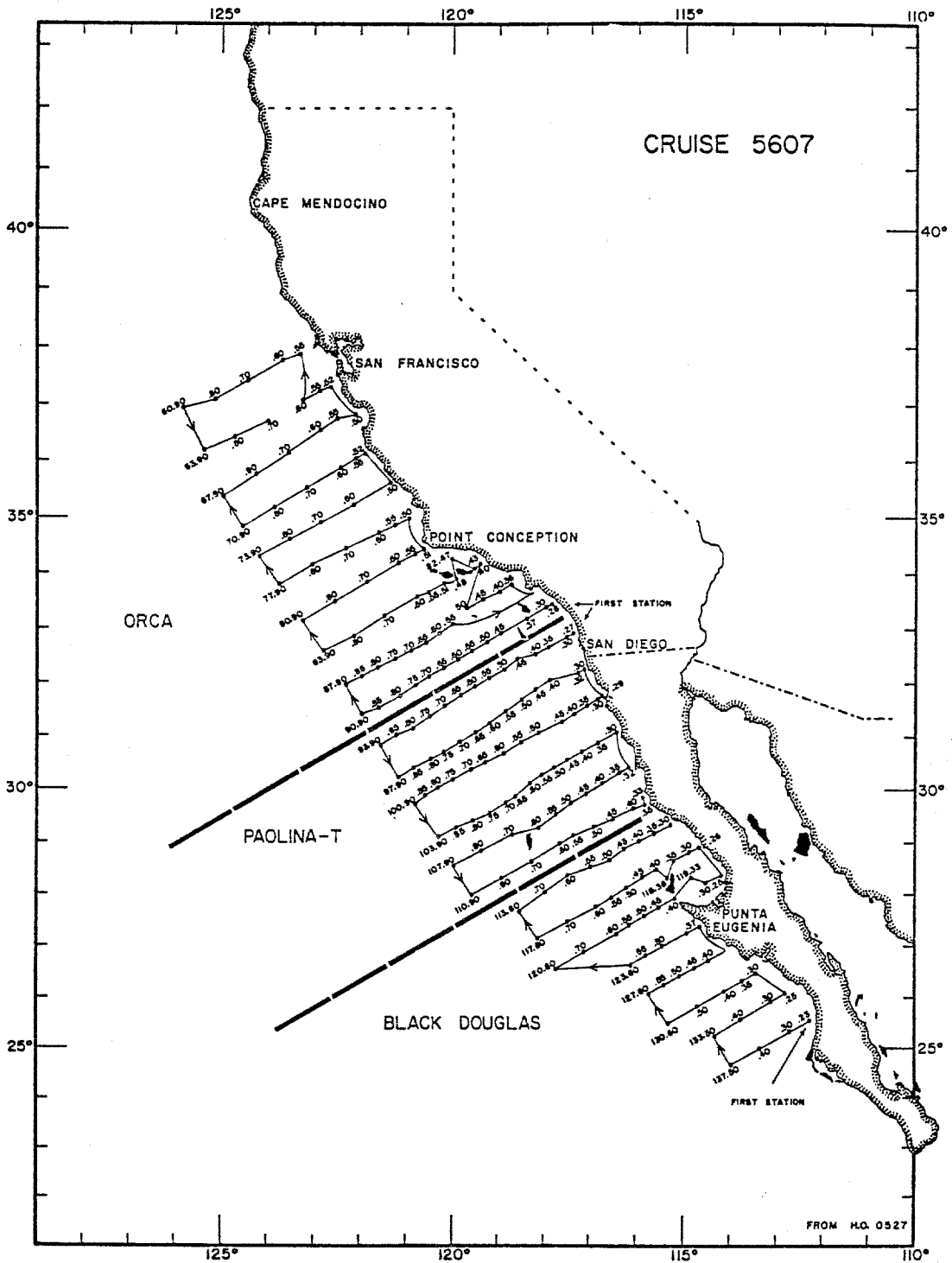


Figure 8. Station pattern for CalCOFI Cruise 5607. Symbols as :  
Figure 2.

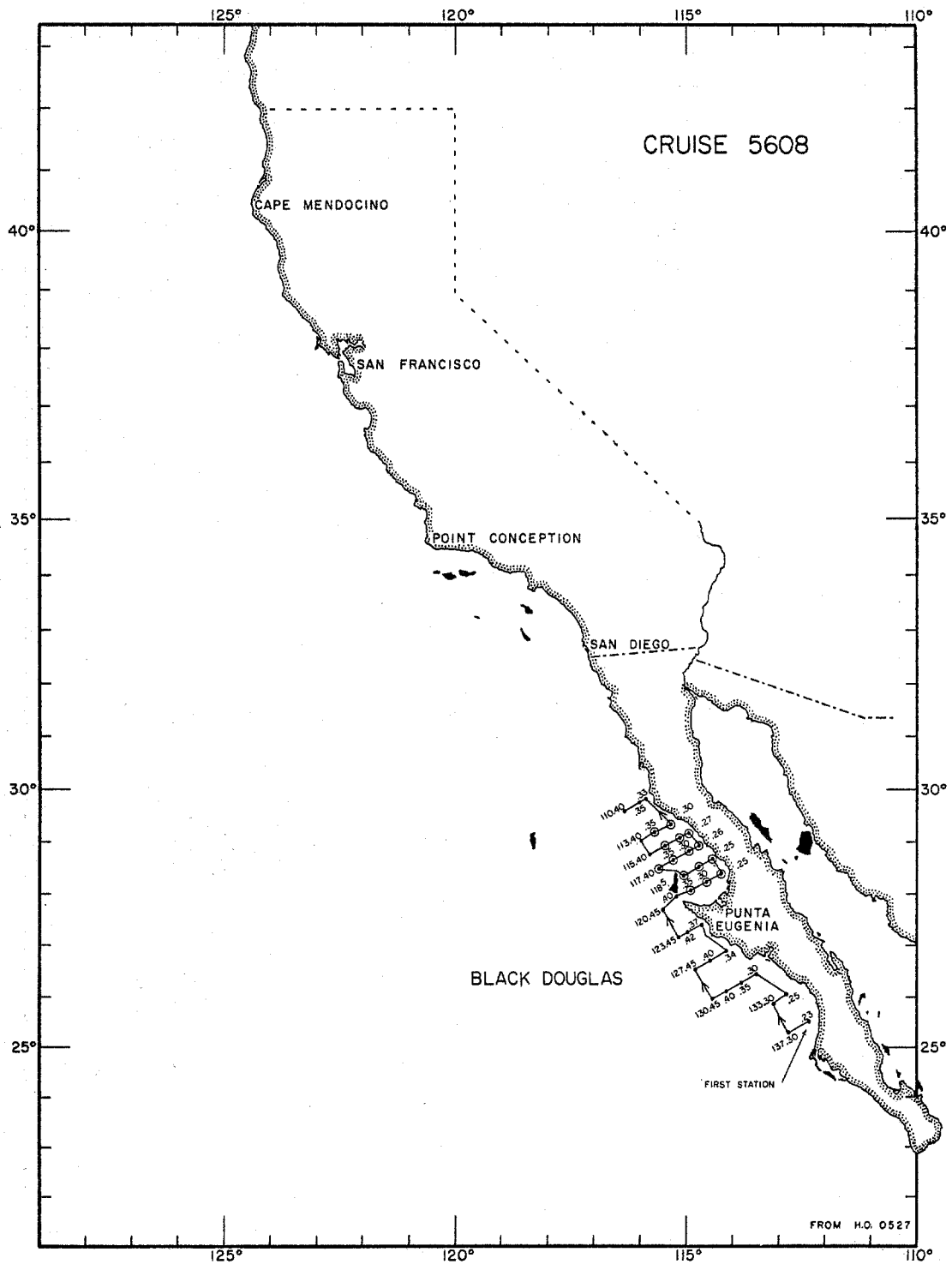


Figure 9. Station pattern for CalCOFI Cruise 5608. Symbols as in Figure 3.

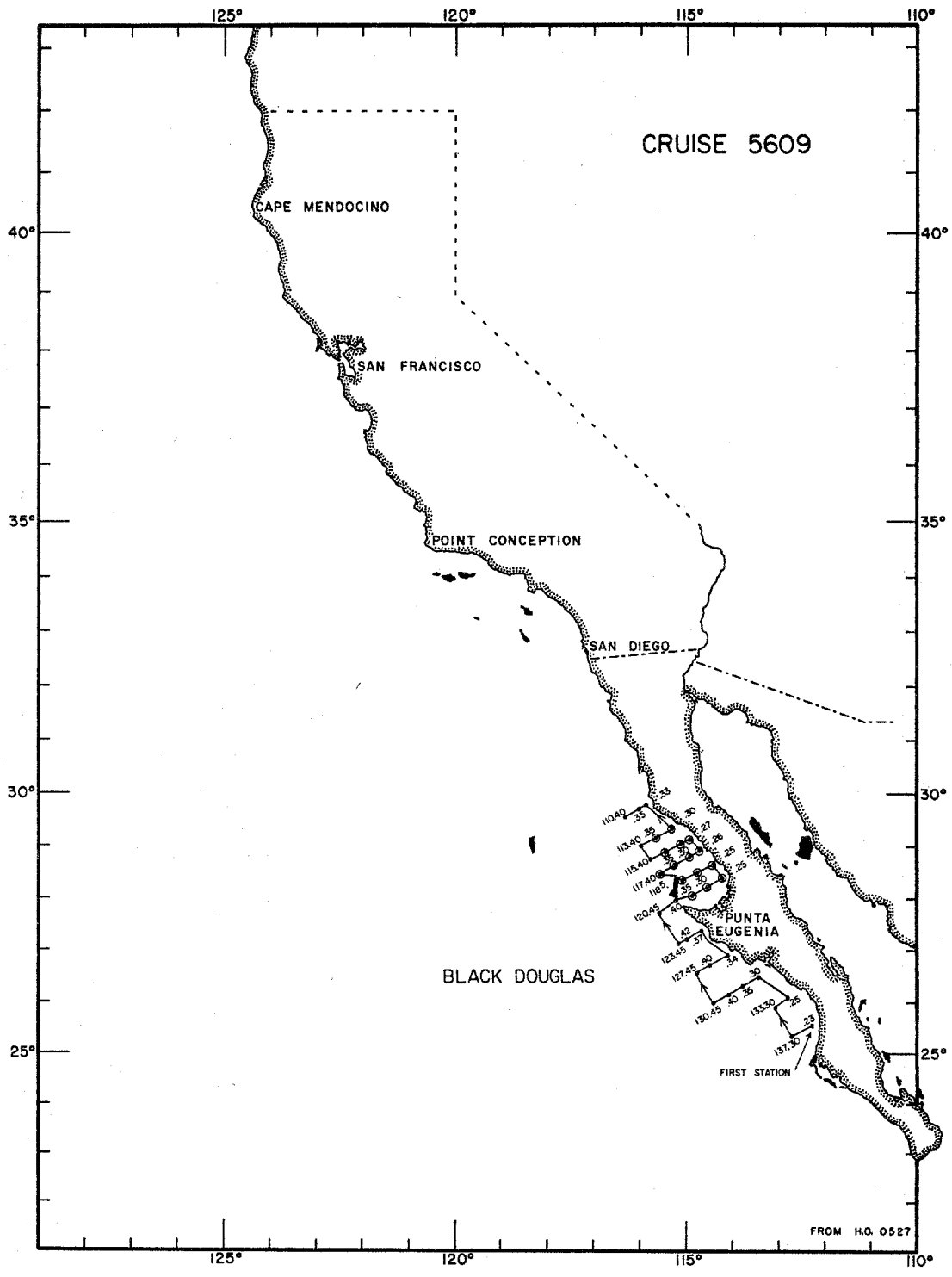


Figure 10. Station pattern for CalCOFI Cruise 5609. Symbol in Figure 3.

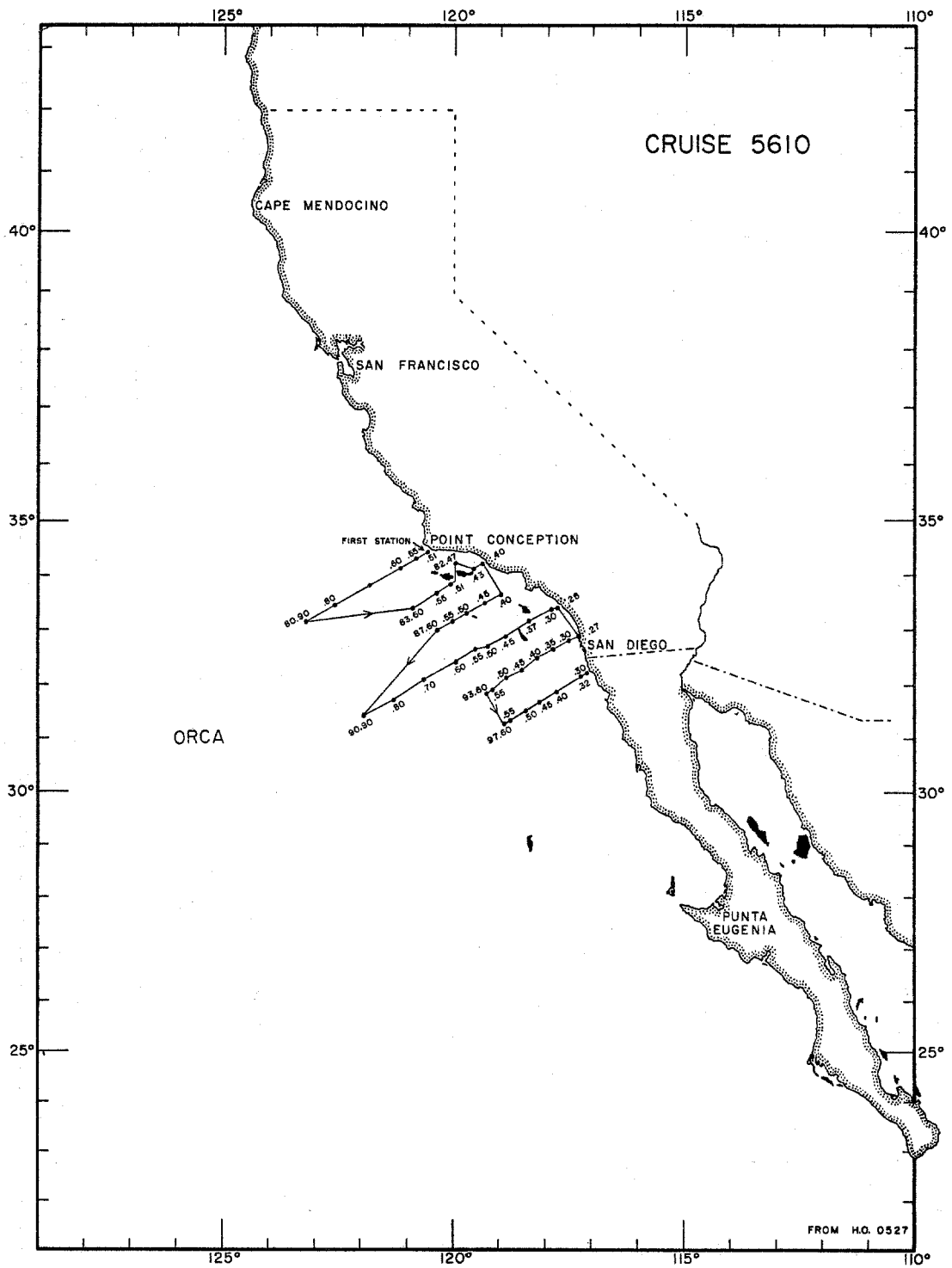


Figure 11. Station pattern for CalCOFI Cruise 5610. Symbols as in Figure 2.

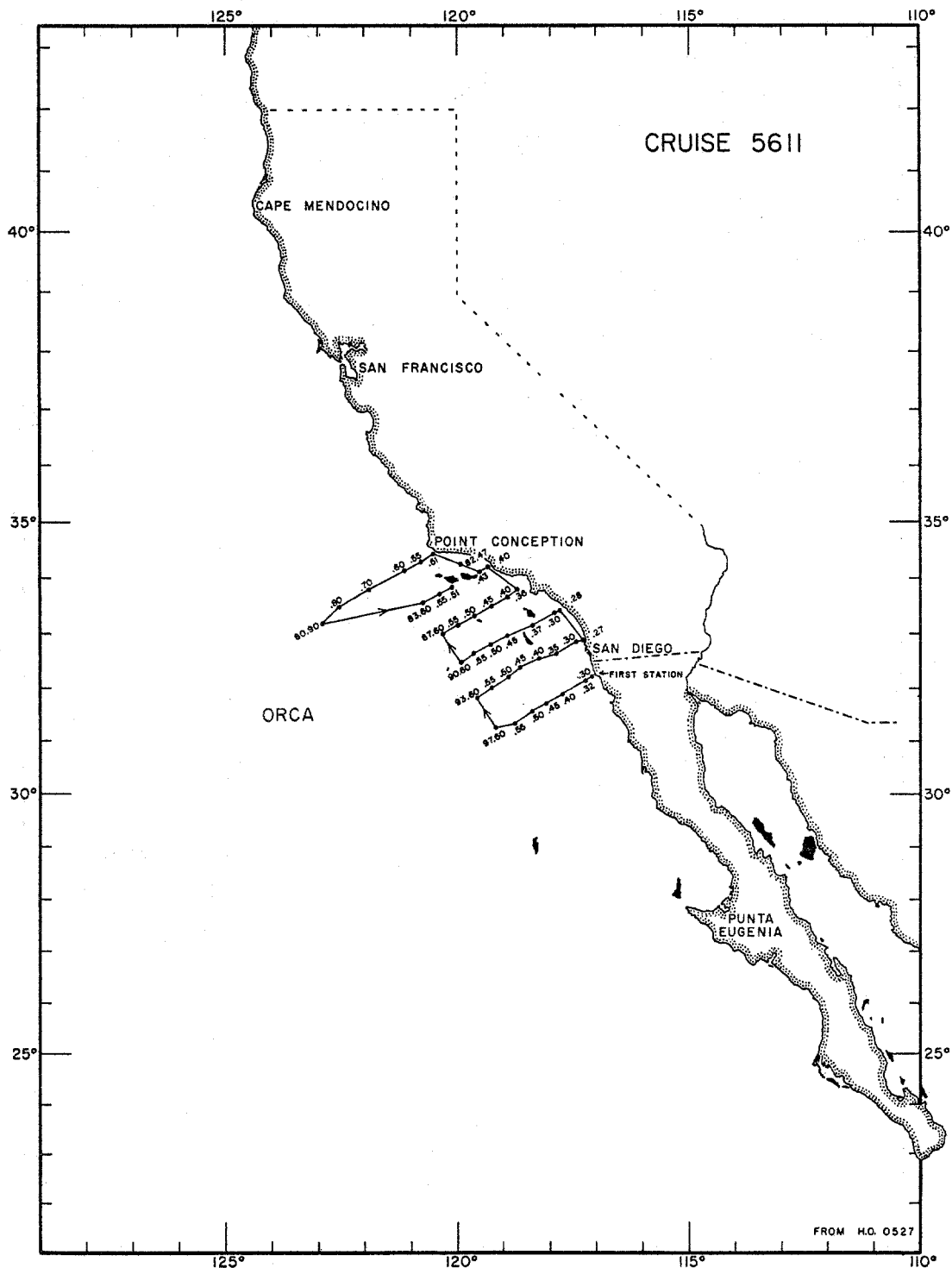


Figure 12. Station pattern for CalCOFI Cruise 5611. Symbols as in Figure 2.

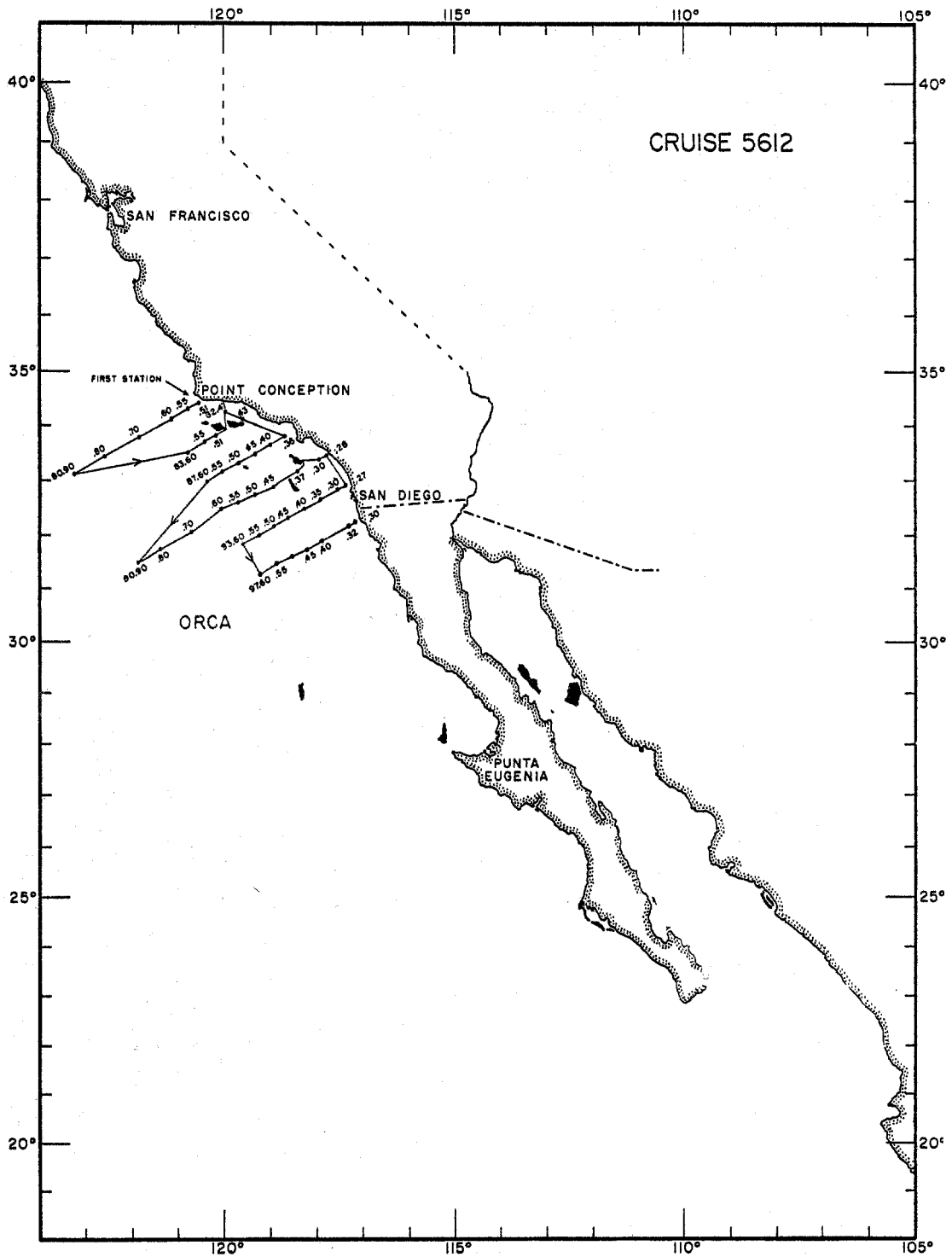


Figure 13. Station pattern for CalCOFI Cruise 5612. Symbols as in Figure 2.

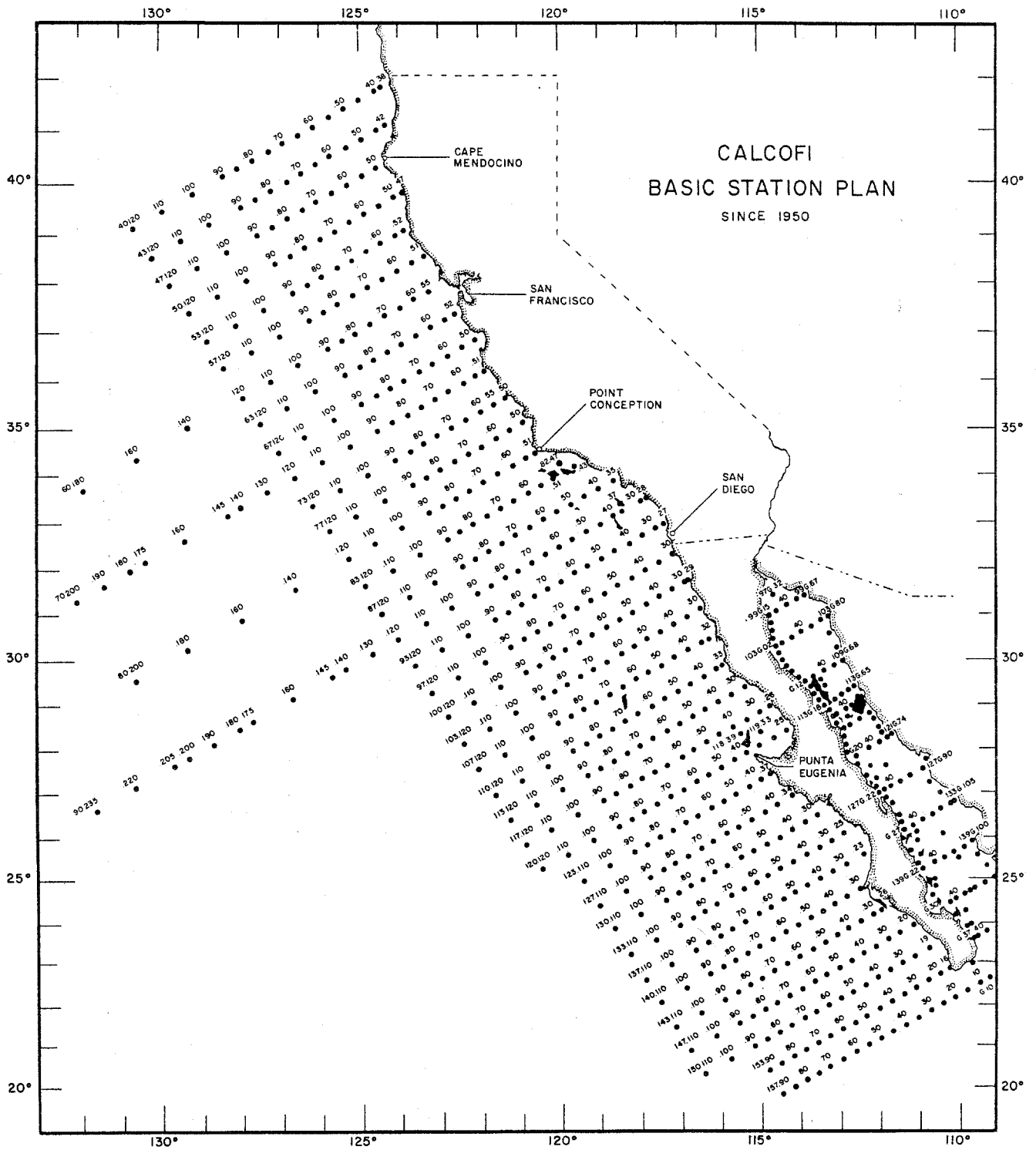


Figure 14. The basic station plan for CalCOFI Cruises from 1950 to the present.



TABLE 1. Station and plankton tow data for CalCOFI cruises in 1956. Counts for fish eggs and larvae are not adjusted for standard haul factor or percent of sample sorted.

CalCOFI Cruise 5601

Line	Station	Lat. (N) deg. min.	Long. (W) deg. min.	Ship Code	Tow Date yr. mo. day	Time (PST)	Tow Depth (m)	Vol. Water Strained (cu. m)	Stand- ard Haul Factor	Percent Sorted	Total Larvae	Total Eggs
80.0	51.0	34 27.9	120 31.8	HO	56 01 05	1243	45	266	1.70	100.0	12	2
80.0	55.0	34 19.4	120 49.0	HO	56 01 05	1436	114	571	1.99	50.0	122	352
80.0	60.0	34 09.2	121 10.9	HO	56 01 05	1716	146	434	3.37	100.0	127	134
80.0	70.0	33 48.8	121 51.8	HO	56 01 05	2146	135	483	2.80	50.0	4	9
80.0	80.0	33 29.0	122 34.9	HO	56 01 06	0211	137	508	2.70	100.0	31	8
80.0	90.0	33 10.6	123 12.2	HO	56 01 06	0626	123	582	2.11	100.0	13	46
83.0	40.0	34 14.8	119 22.0	HO	56 01 07	0614	15	82	1.84	100.0	76	81
83.0	43.0	34 08.0	119 35.2	HO	56 01 07	0416	124	592	2.09	100.0	143	16
83.0	51.0	33 51.0	120 09.0	HO	56 01 06	2316	127	553	2.29	100.0	156	42
83.0	60.0	33 27.0	120 51.0	HO	56 01 06	1836	155	474	3.27	50.0	47	14
87.0	36.0	33 49.4	118 40.9	HO	56 01 07	1151	107	587	1.82	50.0	141	837
87.0	40.0	33 40.0	119 01.0	HO	56 01 07	1316	126	532	2.38	12.0	16	399
87.0	50.0	33 20.5	119 39.0	HO	56 01 07	1734	53	254	2.10	100.0	266	7
87.0	60.0	33 00.2	120 20.5	HO	56 01 07	2146	128	513	2.49	50.0	27	21
90.0	28.0	33 28.0	117 46.0	HO	56 01 09	0721	115	530	2.16	25.0	107	183
90.0	30.0	33 24.8	117 55.0	HO	56 01 09	0606	103	691	1.49	6.0	28	666
90.0	37.0	33 11.0	118 24.8	HO	56 01 09	0236	146	453	3.22	12.0	30	245
90.0	45.0	32 55.3	118 55.3	HO	56 01 08	2311	151	484	3.12	12.0	45	163
90.0	55.0	32 33.0	119 39.4	HO	56 01 08	1806	144	484	2.98	50.0	200	29
90.0	60.0	32 24.0	120 00.0	HO	56 01 08	1546	129	646	2.00	50.0	29	45
90.0	70.0	32 06.5	120 39.2	HO	56 01 08	1126	156	443	3.51	100.0	0	10
90.0	80.0	31 46.2	121 19.5	HO	56 01 08	0706	131	534	2.46	50.0	2	0
93.0	27.0	32 55.8	117 20.0	HO	56 01 09	1151	131	508	2.58	100.0	222	410
93.0	30.0	32 51.2	117 30.2	HO	56 01 09	1316	145	497	2.93	6.0	4	232
93.0	40.0	32 31.5	118 13.0	HO	56 01 09	1756	127	591	2.39	25.0	17	215
93.0	50.0	32 11.0	118 53.2	HO	56 01 09	2216	100	591	1.69	25.0	2	11
97.0	30.0	32 16.5	117 08.2	HO	56 01 10	1209	39	220	1.77	12.0	15	75
97.0	32.0	32 11.2	117 20.0	HO	56 01 10	1036	138	456	3.02	6.0	5	223
97.0	40.0	31 56.3	117 50.0	HO	56 01 10	0716	138	455	3.03	25.0	9	580
97.0	50.0	31 37.0	118 29.9	HO	56 01 10	0241	147	473	3.12	25.0	11	19
100.0	29.0	31 47.0	116 43.5	HO	56 01 10	1659	72	291	2.48	25.0	43	46
100.0	30.0	31 42.0	116 43.0	HO	56 01 10	1736	99	615	1.60	25.0	23	64
100.0	40.0	31 20.2	117 27.8	HO	56 01 10	2206	114	521	2.18	25.0	18	17
100.0	50.0	31 01.0	118 07.0	HO	56 01 11	0236	154	433	3.55	50.0	68	60
100.0	60.0	30 40.0	118 48.0	HO	56 01 11	0706	144	443	3.25	25.0	2	5
100.0	70.0	30 21.5	119 28.0	HO	56 01 11	1126	95	648	1.47	12.0	2	5
100.0	80.0	30 01.0	120 07.0	HO	56 01 11	1536	147	460	3.19	25.0	0	1
103.0	30.0	31 07.0	116 25.1	HO	56 01 12	1428	74	242	3.04	100.0	60	288
103.0	35.0	30 56.5	116 47.0	HO	56 01 12	1216	149	512	2.90	50.0	13	148
103.0	40.0	30 47.0	117 06.0	HO	56 01 12	0946	141	425	3.32	100.0	14	300
103.0	50.0	30 25.5	117 45.5	HO	56 01 12	0506	145	497	2.91	50.0	5	28
103.0	60.0	30 07.0	118 24.2	HO	56 01 12	0021	155	444	3.48	50.0	4	1
107.0	32.0	30 25.9	116 11.1	HO	56 01 12	1856	138	482	2.87	25.0	58	88

TABLE 1. (cont.)

## CALCOFI Cruise 5601

Line	Station	Lat.(N) deg. min.	Long.(W) deg. min.	Ship Code	Tow Date yr. mo. day	Time (PST)	Tow Depth (m)	Vol. Water Strained (cu. m)	Stand- ard Haul Factor	Percent Sorted	Total Larvae	Total Eggs
107.0	35.0	30 20.2	116 22.5	HO	56 01 12	2036	127	489	2.60	12.0	15	712
107.0	40.0	30 10.0	116 42.5	HO	56 01 12	2316	116	552	2.10	25.0	49	1594
107.0	50.0	29 50.0	117 22.2	HO	56 01 13	0336	151	467	3.23	100.0	39	6
107.0	60.0	29 27.0	117 58.0	HO	56 01 13	0721	150	470	3.20	100.0	7	2
110.0	33.0	29 51.0	115 53.0	ST	56 01 17	1048	58	255	2.28	100.0	148	900
110.0	35.0	29 46.5	116 00.0	ST	56 01 17	1156	142	480	2.96	25.0	23	404
110.0	40.0	29 37.0	116 16.5	ST	56 01 17	1411	140	509	2.75	100.0	14	330
110.0	50.0	29 18.0	116 52.5	ST	56 01 17	1801	147	450	3.26	100.0	10	7
110.0	60.0	28 57.0	117 38.5	ST	56 01 17	2206	131	509	2.57	50.0	8	0
110.0	70.0	28 37.0	118 16.0	ST	56 01 18	0202	156	448	3.48	100.0	27	3
110.0	80.0	28 17.0	118 55.0	ST	56 01 18	0610	159	460	3.46	100.0	0	0
113.0	35.0	29 09.5	115 37.0	ST	56 01 17	0341	155	428	3.64	100.0	14	250
113.0	40.0	28 59.5	115 58.0	ST	56 01 17	0030	141	475	2.96	100.0	5	32
113.0	50.0	28 41.0	116 37.5	ST	56 01 16	2006	137	498	2.75	50.0	28	36
113.0	60.0	28 22.5	117 15.5	ST	56 01 16	1516	136	484	2.80	100.0	0	23
113.0	70.0	28 02.0	117 55.0	ST	56 01 16	1102	133	531	2.50	100.0	4	4
117.0	26.0	28 56.0	114 41.0	ST	56 01 15	0828	66	228	2.88	100.0	34	3
117.0	30.0	28 45.0	114 59.5	ST	56 01 15	1042	98	355	2.75	100.0	12	980
117.0	35.0	28 38.0	115 16.0	ST	56 01 15	1316	136	518	2.61	100.0	43	461
117.0	40.0	28 28.0	115 35.5	ST	56 01 15	1845	136	518	2.63	25.0	24	784
117.0	50.0	28 08.0	116 15.0	ST	56 01 15	2251	146	452	3.24	100.0	34	222
117.0	60.0	27 48.5	116 53.0	ST	56 01 16	0156	147	460	3.19	100.0	6	1
117.0	70.0	27 28.0	117 33.0	ST	56 01 16	0641	146	476	3.07	100.0	1	0
118.0	39.0	28 18.5	115 24.0	ST	56 01 15	1631	133	546	2.44	50.0	190	401
119.0	33.0	28 19.0	114 53.0	ST	56 01 15	0007	104	341	3.05	100.0	10	7
120.0	25.0	28 13.0	114 34.0	ST	56 01 15	0424	52	162	3.21	100.0	50	31
120.0	30.0	28 23.0	114 15.0	ST	56 01 15	0207	92	328	2.79	100.0	49	36
120.0	40.0	27 53.0	115 13.5	ST	56 01 14	0811	18	170	1.07	100.0	54	928
120.0	45.0	27 43.0	115 33.0	ST	56 01 14	0530	153	464	3.30	100.0	9	188
120.0	50.0	27 34.5	115 53.5	ST	56 01 14	0301	144	458	3.15	100.0	95	50
120.0	55.0	27 24.0	116 12.0	ST	56 01 14	0041	155	497	3.11	50.0	5	2
120.0	60.0	27 14.0	116 30.5	ST	56 01 13	2222	157	430	3.66	100.0	12	1
123.0	37.0	27 24.0	117 13.0	ST	56 01 13	1806	153	479	3.20	100.0	59	10
123.0	40.0	27 18.0	114 40.0	ST	56 01 13	0324	57	257	2.22	100.0	38	7
123.0	45.0	27 11.5	114 51.5	ST	56 01 13	0437	141	496	2.83	100.0	34	350
123.0	55.0	26 46.5	115 49.0	ST	56 01 13	1006	138	510	2.71	100.0	8	13
127.0	34.0	26 55.5	114 06.0	ST	56 01 12	2338	70	250	2.81	100.0	60	3
127.0	40.0	26 43.5	114 29.5	ST	56 01 12	2111	133	526	2.54	100.0	6	4
127.0	50.0	26 25.0	115 05.5	ST	56 01 12	1717	152	480	3.17	100.0	1	4
127.0	55.0	26 14.5	115 26.5	ST	56 01 12	1500	143	482	2.96	50.0	21	2
130.0	30.0	26 28.0	113 30.0	ST	56 01 12	0213	60	231	2.61	100.0	118	226
130.0	35.0	26 17.0	113 50.0	ST	56 01 12	0433	148	465	3.17	100.0	17	49
130.0	40.0	26 06.5	114 09.0	ST	56 01 12	0646	139	516	2.70	100.0	4	7
130.0	50.0	25 45.0	114 47.0	ST	56 01 12	1021	117	540	2.16	100.0	6	5
133.0	25.0	26 04.5	112 48.0	ST	56 01 11	2153	69	308	2.24	50.0	105	129

TABLE 1. (cont.)

## CALCOFI Cruise 5601

Line	Station	Lat. (N) deg. min.	Long. (W) deg. min.	Ship Code	Tow Date yr. mo. day	Time (PST)	Tow Depth (m)	Vol. Water Strained (cu. m)	Stand- ard Haul Factor	Percent Sorted	Total Larvae	Total Eggs
133.0	30.0	25 54.5	113 07.0	ST	56 01 11	1946	140	486	2.88	6.0	38	996
133.0	40.0	25 33.5	113 47.5	ST	56 01 11	1601	164	440	3.73	100.0	3	7
137.0	23.0	25 34.0	112 18.5	ST	56 01 11	0553	70	283	2.49	100.0	109	52
137.0	30.0	25 20.5	112 45.0	ST	56 01 11	0831	122	562	2.16	50.0	44	462
137.0	40.0	25 00.0	113 26.0	ST	56 01 11	1200	138	555	2.48	100.0	5	51
140.0	30.0	24 45.5	112 24.0	ST	56 01 11	0058	48	270	1.78	50.0	30	375
140.0	35.0	24 36.5	112 41.0	ST	56 01 10	2252	143	461	3.11	25.0	503	9
140.0	40.0	24 26.0	113 02.5	ST	56 01 10	2026	133	573	2.32	100.0	73	16
143.0	26.0	24 19.0	111 48.0	ST	56 01 09	0534	32	239	1.36	100.0	301	361
143.0	30.0	24 10.5	112 04.0	ST	56 01 10	1356	146	488	2.98	6.0	627	560
143.0	35.0	24 02.0	112 22.5	ST	56 01 10	1606	134	526	2.55	100.0	113	128
147.0	20.0	23 56.0	111 03.5	ST	56 01 09	0046	149	473	3.15	100.0	284	53
147.0	25.0	23 46.5	111 22.0	ST	56 01 08	2211	161	440	3.65	100.0	260	9
147.0	30.0	23 36.0	111 41.5	ST	56 01 08	1923	67	261	2.57	100.0	29	42
150.0	19.0	23 24.0	110 39.0	ST	56 01 08	0936	130	529	2.45	50.0	2	14
150.0	25.0	23 12.0	111 01.5	ST	56 01 08	1221	142	464	3.07	50.0	2	8
150.0	30.0	23 02.0	111 19.5	ST	56 01 08	1451	145	483	3.01	100.0	2	11
153.0	16.0	22 55.0	110 07.0	ST	56 01 08	0522	101	424	2.38	100.0	17	10
153.0	20.0	22 47.0	110 22.5	ST	56 01 08	0308	139	516	2.69	100.0	18	23
153.0	30.0	22 27.0	110 58.5	ST	56 01 07	2231	137	514	2.67	100.0	26	335
157.0	10.0	22 32.5	109 23.0	ST	56 01 07	0928	125	604	2.06	100.0	67	40
157.0	20.0	22 13.0	110 00.0	ST	56 01 07	1341	137	538	2.55	100.0	30	179
157.0	30.0	21 53.5	110 38.0	ST	56 01 07	1804	139	571	2.44	100.0	35	21

TABLE 1. (cont.)

## CALCOFI Cruise 5602

Line	Station	Lat. (N) deg. min.	Long. (W) deg. min.	Ship Code	Tow Date yr. mo. day	Time (PST)	Tow Depth (m)	Vol. Water Strained (cu. m)	Stand- ard Haul Factor	Percent Sorted	Total Larvae	Total Eggs
80.0	51.0	34 26.0	120 33.0	ST	56 02 03	0933	56	348	1.62	100.0	15	0
80.0	55.0	34 18.5	120 49.5	ST	56 02 03	1116	123	536	2.30	50.0	14	88
80.0	60.0	34 08.5	121 09.5	ST	56 02 03	1446	147	464	3.16	100.0	29	7
80.0	70.0	33 47.0	121 53.0	ST	56 02 03	0011	143	467	3.06	100.0	126	46
80.0	80.0	33 26.5	122 36.5	ST	56 02 04	0606	145	491	2.96	25.0	12	19
80.0	90.0	33 08.5	123 14.0	ST	56 02 04	1126	143	467	3.07	50.0	14	23
82.0	47.0	34 16.0	119 58.0	ST	56 02 06	0936	118	550	2.59	100.0	32	40
83.0	43.0	34 08.0	119 35.0	ST	56 02 06	1306	139	468	2.97	100.0	135	354
83.0	51.0	33 52.5	120 05.5	ST	56 02 05	1034	25	186	1.34	100.0	16	15
83.0	60.0	33 33.5	120 45.0	ST	56 02 05	0111	132	509	2.59	100.0	6	10
87.0	36.0	33 47.5	118 42.5	ST	56 02 06	2001	142	422	3.36	50.0	64	781
87.0	40.0	33 39.5	118 59.0	ST	56 02 06	2256	144	457	3.15	12.0	42	488
87.0	50.0	33 20.0	119 40.0	ST	56 02 07	0318	55	190	2.89	100.0	476	41
87.0	60.0	32 59.5	120 21.5	ST	56 02 07	0841	141	488	2.89	50.0	14	15
90.0	28.0	33 28.5	117 45.5	ST	56 02 09	0403	70	258	2.73	100.0	278	112
90.0	30.0	33 24.5	117 54.5	ST	56 02 09	0241	138	490	2.82	25.0	43	470
90.0	37.0	33 10.5	118 23.0	ST	56 02 08	2056	146	431	3.39	25.0	248	1002
90.0	45.0	32 54.5	118 56.0	ST	56 02 08	1611	128	470	2.73	50.0	99	644
90.0	55.0	32 33.5	119 35.0	ST	56 02 08	1041	144	438	3.28	25.0	14	223
90.0	60.0	32 22.5	119 56.0	ST	56 02 08	0736	143	464	3.08	100.0	37	232
90.0	70.0	32 04.0	120 39.0	ST	56 02 07	0131	141	457	3.08	50.0	90	158
90.0	80.0	31 43.0	121 20.5	ST	56 02 07	1921	146	353	4.13	100.0	3	23
93.0	27.0	32 56.0	117 19.0	ST	56 02 09	0908	67	285	2.35	100.0	56	22
93.0	30.0	32 50.0	117 31.0	ST	56 02 09	1131	98	560	1.75	25.0	33	775
93.0	40.0	32 30.0	118 12.0	ST	56 02 09	2216	132	478	2.71	50.0	23	909
93.0	50.0	32 12.0	118 54.5	ST	56 02 10	0311	129	477	2.75	100.0	34	183
93.0	60.0	31 50.0	119 34.0	ST	56 02 10	0831	139	465	2.99	100.0	60	70
93.0	70.0	31 30.0	120 15.5	ST	56 02 10	1321	143	429	3.32	100.0	6	228
97.0	30.0	32 15.5	117 09.0	ST	56 02 11	1629	37	169	2.18	100.0	27	11
97.0	32.0	32 11.5	117 15.5	ST	56 02 11	1511	130	476	2.72	100.0	5	152
97.0	40.0	31 55.5	117 50.5	ST	56 02 11	1046	138	454	3.05	50.0	11	716
97.0	50.0	31 35.5	118 31.0	ST	56 02 11	0456	135	470	2.87	100.0	96	364
97.0	60.0	31 13.5	119 11.5	ST	56 02 10	2336	147	436	3.37	100.0	35	33
97.0	70.0	30 55.5	119 51.5	ST	56 02 10	1806	139	485	2.87	100.0	22	118
100.0	29.0	31 42.0	116 43.5	ST	56 02 11	2036	123	423	2.91	100.0	139	191
100.0	33.0	31 35.0	116 58.5	ST	56 02 11	2306	161	439	3.67	25.0	45	616
100.0	40.0	31 21.0	117 27.0	ST	56 02 12	0421	119	471	2.53	100.0	29	643
100.0	50.0	31 03.0	118 09.0	ST	56 02 12	0956	144	429	3.35	100.0	7	145
100.0	60.0	30 41.0	118 47.0	ST	56 02 12	1531	129	472	2.74	100.0	13	369
100.0	70.0	30 21.0	119 27.5	ST	56 02 12	2026	147	426	3.44	12.0	26	939
100.0	80.0	30 01.5	120 07.0	ST	56 02 13	0106	140	457	3.06	25.0	2109	394
103.0	30.0	31 05.5	116 25.0	ST	56 02 14	0113	67	231	2.90	100.0	217	178
103.0	35.0	30 55.0	116 45.0	ST	56 02 13	2246	138	433	3.18	100.0	58	1034
103.0	40.0	30 45.0	117 05.5	ST	56 02 13	1941	136	477	2.85	100.0	165	907
103.0	50.0	30 27.0	117 46.5	ST	56 02 13	1411	134	445	3.01	6.0	1	1784

TABLE 1. (cont.)

## CALCOFI Cruise 5602

Line	Station	Lat. (N) deg. min.	Long. (W) deg. min.	Ship Code	Tow Date yr. mo. day	Time (PST)	Tow Depth (m)	Vol. Water Strained (cu. m)	Stand- ard Haul Factor	Percent Sorted	Total Larvae	Total Eggs
103.0	60.0	30 07.0	118 26.5	ST	56 02 13	0931	135	479	2.83	25.0	6	279
107.0	32.0	30 26.0	116 11.0	ST	56 02 14	0526	133	442	3.01	50.0	63	223
107.0	35.0	30 20.0	116 23.0	ST	56 02 14	0841	147	417	3.52	6.0	12	725
107.0	40.0	30 10.5	116 43.0	ST	56 02 14	1141	136	451	3.01	100.0	42	128
107.0	50.0	29 50.0	117 23.5	ST	56 02 14	1651	138	433	3.19	25.0	79	234
107.0	60.0	29 31.5	118 01.5	ST	56 02 14	2136	145	411	3.54	100.0	64	23
110.0	33.0	29 50.0	115 52.0	ST	56 02 17	0939	39	162	2.43	100.0	74	166
110.0	35.0	29 47.0	116 00.0	ST	56 02 17	0821	130	477	2.72	25.0	13	470
110.0	40.0	29 32.5	116 17.0	ST	56 02 17	0501	137	423	3.23	25.0	97	149
110.0	50.0	29 14.0	116 58.0	ST	56 02 16	2306	140	476	2.94	12.0	38	430
110.0	60.0	28 56.0	117 38.0	ST	56 02 16	1656	139	490	2.84	100.0	51	436
110.0	70.0	28 36.0	118 18.0	ST	56 02 16	1201	142	456	3.12	100.0	38	15
110.0	80.0	28 16.0	118 57.5	ST	56 02 16	0626	144	452	3.19	100.0	6	30
113.0	30.0	29 22.0	115 18.0	ST	56 02 17	1409	36	175	2.05	50.0	76	5
113.0	35.0	29 11.0	115 39.0	ST	56 02 17	1711	129	466	2.78	50.0	55	831
113.0	40.0	29 01.0	115 58.0	ST	56 02 17	2006	133	463	2.87	100.0	717	321
113.0	50.0	28 41.0	116 38.0	ST	56 02 18	0141	133	436	3.05	50.0	68	608
113.0	60.0	28 22.0	117 15.0	SB	56 02 18	0501	128	466	2.74	100.0	131	158
113.0	70.0	28 04.0	117 52.0	SB	56 02 17	0041	134	456	2.93	100.0	614	249
117.0	26.0	28 55.6	114 40.6	SB	56 02 16	1828	64	284	2.27	50.0	190	4
117.0	30.0	28 47.6	114 55.6	SB	56 02 16	2028	74	238	3.10	100.0	46	121
117.0	35.0	28 38.5	115 18.0	SB	56 02 16	2256	129	448	2.88	50.0	96	878
117.0	40.0	28 28.8	115 36.0	SB	56 02 17	0441	138	572	2.41	12.0	240	287
117.0	50.0	28 08.0	116 15.2	SB	56 02 17	1041	131	515	3.19	100.0	50	709
117.0	60.0	27 47.8	116 52.0	SB	56 02 17	1556	126	515	2.45	100.0	21	107
117.0	70.0	27 32.0	117 31.5	SB	56 02 17	2006	153	409	3.75	100.0	12	60
118.0	39.0	28 18.5	115 23.0	SB	56 02 17	0211	132	471	2.80	50.0	654	444
119.0	33.0	28 19.5	114 53.5	SB	56 02 16	1013	74	295	2.52	50.0	39	463
120.0	25.0	28 22.8	114 14.5	SB	56 02 16	1429	44	180	2.47	50.0	31	226
120.0	30.0	28 13.5	114 34.0	SB	56 02 16	1218	82	289	2.84	25.0	24	40
120.0	40.0	27 52.5	115 14.5	SB	56 02 16	0543	66	282	2.33	25.0	306	81
120.0	45.0	27 42.0	115 32.5	SB	56 02 16	0316	136	446	3.04	50.0	560	1420
120.0	50.0	27 34.0	115 50.0	SB	56 02 16	0026	137	441	3.11	100.0	7	15
120.0	55.0	27 26.0	116 06.0	SB	56 02 15	2151	126	475	2.66	100.0	11	24
120.0	60.0	27 15.5	116 27.0	SB	56 02 15	1826	133	300	4.43	100.0	4	34
120.0	70.0	26 53.5	117 09.5	SB	56 02 15	1316	133	645	2.06	100.0	26	38
123.0	37.0	27 24.2	114 39.8	SB	56 02 14	1918	60	248	2.41	25.0	35	485
123.0	42.0	27 14.0	114 59.0	SB	56 02 14	2216	142	415	3.42	50.0	213	190
123.0	50.0	26 58.0	115 30.5	SB	56 02 15	0211	131	482	2.72	100.0	391	286
127.0	34.0	26 55.5	114 06.2	SB	56 02 14	1448	68	242	2.80	100.0	7	207
127.0	40.0	26 43.5	114 29.5	SB	56 02 14	1211	127	484	2.62	100.0	4	10
127.0	50.0	26 22.5	115 07.0	SB	56 02 14	0716	133	470	2.82	100.0	361	22
127.0	55.0	26 11.5	115 28.0	SB	56 02 14	0416	130	497	2.61	25.0	219	114
130.0	30.0	26 29.0	113 29.0	SB	56 02 13	0709	33	223	1.47	100.0	70	886
130.0	35.0	26 19.5	113 50.2	SB	56 02 13	1016	128	512	2.51	100.0	6	174

TABLE 1. (cont.)

## CalCOFI Cruise 5602

Line	Station	Lat. (N) deg. min.	Long. (W) deg. min.	Ship Code	Tow Date yr. mo. day	Time (PST)	Tow Depth (m)	Vol. Water Strained (cu. m)	Stand- ard Haul Factor	Percent Sorted	Total Larvae	Total Eggs
130.0	40.0	26 09.0	114 08.0	SB	56 02 13	1256	129	525	2.47	100.0	0	3
130.0	50.0	25 49.0	114 42.0	SB	56 02 13	1746	131	489	2.67	100.0	81	140
130.0	60.0	25 29.0	115 23.0	SB	56 02 13	2256	146	434	3.37	100.0	16	31
133.0	25.0	26 04.5	112 48.0	SB	56 02 13	0223	64	207	3.11	100.0	16	320
133.0	30.0	25 55.5	113 08.2	SB	56 02 12	2351	122	430	2.85	25.0	80	267
133.0	40.0	25 32.8	113 45.0	SB	56 02 12	1851	131	485	2.71	100.0	12	74
137.0	23.0	25 34.0	112 19.0	SB	56 02 12	0557	54	366	1.47	50.0	17	20
137.0	30.0	25 21.2	112 45.8	SB	56 02 12	0926	139	422	3.28	12.0	25	6
137.0	40.0	24 59.5	113 24.2	SB	56 02 12	1406	136	402	3.39	100.0	188	1284
140.0	30.0	24 45.0	112 24.0	SB	56 02 12	0027	105	329	3.21	50.0	1267	4
140.0	35.0	24 35.0	112 44.0	SB	56 02 12	2141	152	424	3.58	50.0	589	29
140.0	40.0	24 29.0	113 02.0	SB	56 02 11	1926	145	487	2.98	50.0	165	12
140.0	50.0	24 05.0	113 45.0	SB	56 02 11	1411	127	576	2.21	100.0	87	50
140.0	60.0	23 46.0	114 16.0	SB	56 02 11	0906	135	477	2.83	100.0	33	21
143.0	26.0	24 19.0	111 48.0	SB	56 02 09	0910	45	238	1.89	100.0	17	0
143.0	30.0	24 11.0	112 03.0	SB	56 02 10	1146	144	461	3.12	25.0	19	1
143.0	35.0	24 00.0	112 22.0	SB	56 02 10	1426	129	505	2.55	50.0	35	231
143.0	40.0	23 51.0	112 40.0	SB	56 02 10	1726	128	571	2.23	100.0	104	29
143.0	50.0	23 32.0	113 18.0	SB	56 02 10	2236	136	476	2.91	100.0	2	6
143.0	60.0	23 12.5	113 56.0	SB	56 02 11	0326	155	452	3.43	100.0	17	16
147.0	20.0	23 55.5	111 05.0	SB	56 02 09	0346	115	344	3.34	50.0	135	21
147.0	25.0	23 46.5	111 22.0	SB	56 02 09	0136	154	607	2.54	50.0	37	201
147.0	30.0	23 37.0	111 40.0	SB	56 02 08	2221	130	463	2.81	50.0	37	54
147.0	35.0	23 23.0	111 58.0	SB	56 02 08	1936	119	536	2.22	100.0	66	184
147.0	40.0	23 14.5	112 19.0	SB	56 02 08	1606	125	630	1.98	100.0	33	41
150.0	19.0	23 24.0	110 39.0	SB	56 02 07	2316	135	456	2.95	50.0	41	2
150.0	25.0	23 13.0	111 02.0	SB	56 02 08	0236	141	446	3.16	100.0	39	2
150.0	30.0	23 05.0	111 21.0	SB	56 02 08	0544	130	277	2.69	100.0	5	54
150.0	40.0	22 40.0	111 59.0	SB	56 02 08	1111	125	277	2.28	100.0	21	49
153.0	16.0	22 55.0	110 07.0	SB	56 02 07	1755	125	586	2.13	25.0	77	5
153.0	20.0	22 48.0	110 25.0	SB	56 02 07	1456	137	458	3.00	100.0	38	249
153.0	30.0	22 36.0	111 57.0	SB	56 02 07	1025	151	438	3.46	100.0	55	90
153.0	40.0	22 15.0	111 34.0	SB	56 02 07	0441	131	642	2.04	100.0	53	103
153.0	50.0	21 50.0	112 14.0	SB	56 02 06	2341	135	471	2.88	100.0	76	10
153.0	60.0	21 26.0	112 51.0	SB	56 02 06	1756	125	632	1.99	100.0	22	1260
157.0	20.0	22 14.0	109 59.0	SB	56 02 05	1516	123	494	2.50	100.0	60	682
157.0	30.0	21 52.0	110 38.0	SB	56 02 05	2124	129	454	2.83	100.0	86	31
157.0	40.0	21 32.0	111 14.0	SB	56 02 06	0241	143	720	1.98	100.0	36	47
157.0	50.0	21 12.0	111 53.0	SB	56 02 06	0801	134	461	2.91	100.0	1	6
157.0	60.0	20 52.0	112 29.0	SB	56 02 06	1246	134	298	2.60	100.0	2	121

TABLE 1. (cont.)

## CALCOFI Cruise 5603

Line	Station	Lat. (N) deg. min.	Long. (W) deg. min.	Ship Code	Tow Date yr. mo. day	Time (PST)	Tow Depth (m)	Vol. Water Strained (cu. m)	Stand- ard Haul Factor	Percent Sorted	Total Larvae	Total Eggs
80.0	55.0	34 19.0	120 48.0	BD	56 03 08	0021	97	632	1.54	50.0	26	6
80.0	60.0	34 09.0	121 09.0	BD	56 03 08	0310	135	502	2.69	100.0	187	166
80.0	70.0	34 47.0	121 51.0	BD	56 03 08	0851	140	439	3.18	100.0	237	237
80.0	80.0	33 29.0	122 32.0	BD	56 03 08	1341	132	547	2.41	100.0	19	58
80.0	90.0	33 09.0	123 13.0	BD	56 03 08	1856	137	457	2.99	100.0	50	39
82.0	47.0	34 15.0	119 58.0	BD	56 03 10	0456	94	637	1.48	50.0	179	53
83.0	40.0	34 13.3	119 21.7	BD	56 03 10	0839	12	141	0.83	100.0	34	1598
83.0	43.0	34 08.0	119 34.0	BD	56 03 10	1011	137	493	2.78	100.0	194	352
83.0	51.0	33 52.0	120 08.3	BD	56 03 10	0051	132	494	2.67	50.0	134	22
83.0	60.0	33 34.0	120 45.0	BD	56 03 09	1801	144	485	2.98	50.0	96	140
83.0	70.0	33 14.5	121 26.0	BD	56 03 09	1156	131	483	2.72	100.0	17	28
83.0	80.0	32 54.5	122 07.0	BD	56 03 09	0521	142	458	3.09	100.0	32	76
83.0	90.0	32 34.0	122 48.0	BD	56 03 08	2316	132	504	2.61	100.0	39	131
87.0	36.0	33 47.5	118 43.2	BD	56 03 10	1506	126	512	2.47	50.0	91	781
87.0	40.0	33 40.0	118 58.5	BD	56 03 10	1711	140	437	3.19	50.0	44	902
87.0	50.0	33 20.0	119 39.5	BD	56 03 12	0328	66	296	2.24	100.0	146	27
87.0	60.0	33 00.0	120 25.0	BD	56 03 12	0756	134	526	2.56	100.0	86	111
87.0	70.0	32 39.5	121 02.0	BD	56 03 12	1256	135	487	2.77	100.0	81	78
87.0	80.0	32 19.5	121 43.0	BD	56 03 12	1716	142	477	2.99	100.0	56	36
87.0	90.0	31 59.0	122 24.0	BD	56 03 12	2156	139	476	2.93	100.0	110	12
90.0	28.0	33 28.5	117 46.7	BD	56 03 14	0713	59	221	2.66	100.0	132	803
90.0	30.0	33 24.5	117 55.0	BD	56 03 14	0601	141	451	3.13	100.0	51	876
90.0	37.0	33 11.0	118 23.5	BD	56 03 14	0251	137	484	2.84	25.0	20	457
90.0	45.0	32 54.5	118 55.5	BD	56 03 13	2321	142	439	3.24	50.0	89	326
90.0	55.0	32 35.0	119 37.0	BD	56 03 13	1821	141	461	3.05	50.0	128	130
90.0	60.0	32 25.0	119 57.5	BD	56 03 13	1556	151	379	3.97	25.0	8	62
90.0	70.0	32 05.0	120 39.0	BD	56 03 13	1131	142	473	3.00	100.0	103	108
90.0	80.0	31 45.0	121 19.0	BD	56 03 13	0651	142	451	3.14	100.0	82	32
90.0	90.0	31 25.0	121 59.0	BD	56 03 13	0221	135	494	2.74	100.0	161	76
93.0	27.0	32 56.0	117 19.2	BD	56 03 14	1147	89	308	2.89	100.0	38	142
93.0	30.0	32 50.0	117 31.5	BD	56 03 14	1301	140	341	4.10	100.0	18	834
93.0	40.0	32 30.0	118 12.5	BD	56 03 14	1756	141	514	2.74	100.0	113	197
93.0	50.0	32 10.0	118 53.5	BD	56 03 14	0301	139	328	4.23	50.0	14	87
93.0	60.0	31 50.0	119 34.0	BD	56 03 15	0211	134	459	2.91	50.0	141	138
93.0	70.0	31 29.0	120 14.0	BD	56 03 15	0751	138	496	2.78	100.0	84	356
93.0	80.0	31 10.0	120 55.0	BD	56 03 15	1211	129	548	2.35	100.0	76	104
93.0	90.0	30 50.0	121 35.0	BD	56 03 15	1616	136	473	2.89	100.0	49	168
97.0	30.0	32 15.0	117 09.0	BD	56 03 17	2358	48	220	2.17	100.0	122	347
97.0	32.0	32 11.5	117 17.0	BD	56 03 16	2251	138	462	2.98	100.0	23	262
97.0	40.0	31 55.5	117 50.0	BD	56 03 16	1851	141	278	5.08	12.0	6	129
97.0	50.0	31 35.5	118 30.5	BD	56 03 16	1401	140	472	2.95	100.0	16	453
97.0	60.0	31 15.5	119 10.5	BD	56 03 16	0946	138	473	2.92	100.0	36	464
97.0	70.0	30 58.0	119 45.0	BD	56 03 16	0556	141	460	3.06	100.0	220	566
97.0	80.0	30 37.0	120 28.0	BD	56 03 16	0116	140	493	2.84	100.0	262	475
97.0	90.0	30 15.0	121 11.0	BD	56 03 15	2041	136	512	2.66	100.0	30	316

TABLE 1. (cont.)

## CALCOFI Cruise 5603

Line	Station	Lat. (N) deg. min.	Long. (W) deg. min.	Ship Code	Tow Date yr. mo. day	Time (PST)	Tow Depth (m)	Vol. Water Strained (cu. m)	Stand- ard Haul Factor	Percent Sorted	Total Larvae	Total Eggs
100.0	29.0	31 42.2	116 43.4	BD	56 03 17	0407	100	333	2.99	50.0	63	21
100.0	33.0	31 34.5	116 59.0	BD	56 03 17	0601	143	472	3.04	100.0	113	546
100.0	40.0	31 21.0	117 27.0	BD	56 03 17	0901	139	459	3.02	100.0	42	578
100.0	50.0	31 01.0	118 07.0	BD	56 03 17	1326	147	486	3.02	100.0	114	322
100.0	60.0	30 39.0	118 50.2	BD	56 03 17	1756	141	428	3.30	100.0	26	268
100.0	70.0	30 18.0	119 26.0	BD	56 03 17	2206	137	488	2.80	50.0	47	229
100.0	80.0	29 55.0	120 05.0	BD	56 03 18	0231	139	469	2.97	100.0	125	283
100.0	90.0	29 41.5	120 44.0	ST	56 03 19	0746	136	444	3.00	50.0	70	365
100.0	90.0	29 31.0	120 44.0	BD	56 03 18	0656	133	444	3.00	100.0	81	364
103.0	30.0	31 05.5	116 25.0	ST	56 03 18	0139	52	139	3.73	25.0	38	1900
103.0	35.0	30 55.5	116 44.0	ST	56 03 18	0401	135	467	2.89	25.0	47	401
103.0	40.0	30 46.0	117 04.0	ST	56 03 18	0611	140	455	3.08	50.0	102	544
103.0	50.0	30 25.5	117 45.5	BD	56 03 19	0520	132	450	2.94	100.0	87	512
103.0	50.0	30 27.0	117 44.5	ST	56 03 18	1011	140	435	3.21	50.0	31	206
103.0	60.0	30 06.0	118 25.5	BD	56 03 19	0031	148	395	3.75	6.0	16	260
103.0	60.0	30 07.0	118 25.0	ST	56 03 18	1431	151	403	3.75	100.0	27	864
103.0	70.0	29 49.5	119 05.0	ST	56 03 18	1846	146	430	3.40	100.0	118	356
103.0	70.0	29 37.0	119 05.2	BD	56 03 18	1811	141	471	2.99	100.0	197	348
103.0	80.0	29 28.0	119 44.0	ST	56 03 18	2306	149	386	3.87	100.0	84	612
103.0	80.0	29 26.0	119 45.5	BD	56 03 18	1431	142	433	3.28	100.0	46	673
103.0	90.0	29 07.0	120 23.0	ST	56 03 19	0321	143	411	3.49	100.0	27	356
103.0	90.0	29 06.0	120 25.0	BD	56 03 18	1001	138	462	2.98	100.0	26	372
107.0	32.0	30 27.0	116 12.0	ST	56 03 17	2101	139	422	3.30	100.0	325	329
107.0	35.0	30 21.5	116 24.0	ST	56 03 17	1926	148	352	4.20	50.0	150	672
107.0	40.0	30 12.0	116 45.0	ST	56 03 17	1706	138	399	3.45	25.0	26	326
107.0	50.0	29 51.5	117 25.0	ST	56 03 17	1216	145	439	3.30	100.0	163	183
107.0	60.0	29 33.0	118 01.5	ST	56 03 17	0846	147	436	3.23	100.0	97	340
107.0	70.0	29 10.5	118 45.0	ST	56 03 17	0336	149	421	3.54	100.0	274	161
107.0	80.0	28 50.0	119 25.0	ST	56 03 16	2321	141	467	3.03	100.0	50	59
107.0	90.0	28 31.0	119 58.5	ST	56 03 16	1941	149	453	3.28	100.0	121	68
110.0	33.0	29 48.5	115 52.0	ST	56 03 15	1348	86	301	2.86	100.0	71	1365
110.0	35.0	29 47.0	116 00.0	ST	56 03 15	1531	134	477	2.82	100.0	246	774
110.0	40.0	29 38.0	116 19.0	ST	56 03 15	1806	148	455	3.26	100.0	154	300
110.0	50.0	29 18.5	117 01.5	ST	56 03 15	2216	135	475	2.85	25.0	155	80
110.0	60.0	29 00.5	117 40.5	ST	56 03 16	0221	134	481	2.79	50.0	120	624
110.0	70.0	28 37.0	118 19.0	ST	56 03 16	0701	135	470	2.86	50.0	74	210
110.0	80.0	28 16.5	118 59.0	ST	56 03 16	1111	142	466	3.04	100.0	176	77
110.0	90.0	27 58.0	119 35.5	ST	56 03 16	1506	129	502	2.57	100.0	44	33
113.0	30.0	29 13.0	115 19.0	ST	56 03 15	1019	37	171	2.16	100.0	87	85
113.0	35.0	29 13.0	115 39.0	ST	56 03 15	0741	137	470	2.91	25.0	97	192
113.0	40.0	29 01.5	116 08.5	ST	56 03 15	0441	151	428	3.52	25.0	75	10
113.0	45.0	28 52.0	116 23.5	ST	56 03 15	0216	148	460	3.22	100.0	133	43
113.0	50.0	28 42.0	116 40.5	ST	56 03 15	0001	142	472	3.00	100.0	94	97
113.0	55.0	28 32.0	116 57.5	ST	56 03 14	2141	140	319	4.38	100.0	102	409
113.0	60.0	28 21.0	117 15.0	ST	56 03 14	1926	134	332	4.02	100.0	350	333



TABLE 1. (cont.)

## CALCOFI Cruise 5603

Line	Station	Lat. (N) deg. min.	Long. (W) deg. min.	Ship Code	Tow Date yr. mo. day	Time (PST)	Tow Depth (m)	Vol. Water Strained (cu. m)	Stand- ard Haul Factor	Percent Sorted	Total Larvae	Total Eggs
113.0	70.0	27 58.5	117 53.0	ST	56 03 14	1516	150	409	3.66	100.0	9	111
113.0	80.0	27 40.0	118 32.0	ST	56 03 14	1116	145	397	3.64	100.0	13	90
117.0	26.0	28 55.5	114 41.0	ST	56 03 12	0234	63	229	2.75	50.0	39	10
117.0	30.0	28 48.0	114 56.0	ST	56 03 12	0425	59	201	2.94	50.0	87	60
117.0	35.0	28 38.0	115 16.0	ST	56 03 12	0701	130	488	2.66	6.0	17	77
117.0	40.0	28 28.0	115 35.5	ST	56 03 13	1326	129	514	2.52	50.0	154	278
117.0	45.0	28 19.0	115 56.0	ST	56 03 13	1556	142	445	3.20	100.0	59	53
117.0	50.0	28 10.0	116 17.0	ST	56 03 13	1816	140	475	2.95	50.0	47	229
117.0	55.0	28 01.0	116 35.5	ST	56 03 13	2021	144	426	3.39	25.0	54	357
117.0	60.0	27 51.5	116 56.0	ST	56 03 13	2251	149	427	3.49	12.0	25	255
117.0	70.0	27 32.5	117 36.5	ST	56 03 14	0311	145	443	3.27	100.0	35	128
117.0	80.0	27 13.5	118 15.5	ST	56 03 14	0741	146	421	3.46	100.0	6	99
118.0	39.0	28 18.5	115 24.0	ST	56 03 13	1141	132	505	2.62	100.0	83	316
119.0	33.0	28 19.0	114 48.0	ST	56 03 11	1747	96	370	2.58	50.0	110	271
120.0	25.0	28 23.0	114 14.5	ST	56 03 11	2208	64	327	2.82	6.0	13	1
120.0	30.0	28 11.0	114 36.0	ST	56 03 11	1958	74	231	3.19	25.0	47	12
120.0	40.0	27 52.5	115 14.0	ST	56 03 11	1349	32	137	2.34	50.0	111	134
120.0	45.0	27 39.0	115 28.5	ST	56 03 11	1136	140	359	3.90	100.0	91	1081
120.0	50.0	27 28.5	115 49.5	ST	56 03 11	0928	143	420	3.40	100.0	2	46
120.0	55.0	27 19.0	116 10.0	ST	56 03 11	0726	138	458	3.01	100.0	13	113
120.0	60.0	27 10.0	116 30.0	ST	56 03 11	0511	147	406	3.62	100.0	21	81
120.0	70.0	26 50.5	117 09.5	ST	56 03 11	0056	136	472	2.88	100.0	50	193
120.0	80.0	26 32.0	117 49.5	ST	56 03 10	2046	148	435	3.41	100.0	107	78
123.0	37.0	27 24.0	114 40.0	ST	56 03 10	0213	63	216	2.90	100.0	122	681
123.0	40.0	27 18.0	114 51.5	ST	56 03 10	0341	142	435	3.26	100.0	166	897
123.0	45.0	27 08.0	115 11.0	ST	56 03 10	0616	144	458	3.14	50.0	96	469
123.0	50.0	26 58.0	115 30.5	ST	56 03 10	0836	136	444	3.06	50.0	19	109
123.0	55.0	26 47.5	115 50.0	ST	56 03 10	1056	142	422	3.36	100.0	29	163
123.0	60.0	26 38.5	116 10.0	ST	56 03 10	1256	148	398	3.71	100.0	9	122
127.0	34.0	26 55.5	114 06.0	ST	56 03 09	2138	62	233	2.65	100.0	23	182
127.0	40.0	26 43.5	114 29.0	ST	56 03 09	1856	147	453	3.25	100.0	59	42
127.0	45.0	26 33.0	114 49.0	ST	56 03 09	1626	142	467	3.04	100.0	4	34
127.0	50.0	26 23.0	115 07.0	ST	56 03 09	1346	145	397	3.65	100.0	13	302
127.0	55.0	26 08.0	115 30.5	ST	56 03 09	1056	136	484	2.81	100.0	23	59
127.0	60.0	26 01.5	115 45.0	ST	56 03 09	0826	134	474	2.83	100.0	22	341
130.0	30.0	26 25.5	113 26.5	ST	56 03 08	1338	59	236	2.50	100.0	27	776
130.0	35.0	26 19.0	114 06.5	ST	56 03 08	1606	143	474	3.01	100.0	10	885
130.0	40.0	26 09.0	114 48.0	ST	56 03 08	1846	144	466	3.08	100.0	46	92
130.0	50.0	25 50.0	114 41.5	ST	56 03 08	2321	143	501	2.85	100.0	71	58
130.0	60.0	25 31.5	115 17.0	ST	56 03 09	0356	148	458	3.24	100.0	32	63
133.0	25.0	26 04.5	112 48.0	ST	56 03 07	0833	71	214	3.33	100.0	17	202
133.0	30.0	25 53.5	113 07.0	ST	56 03 07	0606	129	514	2.52	25.0	17	1459
133.0	40.0	25 35.0	113 46.0	ST	56 03 06	2326	135	482	2.79	100.0	42	334
133.0	50.0	25 15.0	114 27.0	ST	56 03 06	1631	139	507	2.75	100.0	63	104
133.0	60.0	24 55.5	114 58.0	ST	56 03 06	1051	147	452	3.26	100.0	349	61

TABLE 1. (cont.)

CalCOFI Cruise 5603												
Line	Station	Lat.(N) deg. min.	Long.(W) deg. min.	Ship Code	Tow Date yr. mo. day	Time (PST)	Tow Depth (m)	Vol. Water Strained (cu. m)	Stand- ard Haul Factor	Percent Sorted	Total Larvae	Total Eggs
137.0	23.0	25 33.5	112 20.0	ST	56 03 05	1223	69	288	2.39	25.0	6	5
137.0	30.0	25 20.5	112 45.0	ST	56 03 05	1511	145	467	3.10	50.0	444	39
137.0	40.0	25 00.0	113 24.0	ST	56 03 05	1926	148	482	3.07	50.0	221	33
137.0	50.0	24 39.5	114 01.5	ST	56 03 06	0006	145	424	3.43	100.0	7	127
137.0	60.0	24 20.0	114 38.5	ST	56 03 06	0446	130	494	2.63	100.0	35	165

TABLE 1. (cont.)

## CalCOFI Cruise 5604

Line	Station	Lat. (N) deg. min.	Long. (W) deg. min.	Ship Code	Tow Date yr. mo. day	Time (PST)	Tow Depth (m)	Vol. Water Strained (cu. m)	Stand- ard Haul Factor	Percent Sorted	Total Larvae	Total Eggs
60.0	50.0	37 57.5	122 53.0	ST	56 04 08	1327	41	121	3.37	100.0	201	33
60.0	55.0	37 47.0	123 15.0	ST	56 04 08	1558	129	384	3.37	100.0	3	27
60.0	57.0	37 43.5	123 24.0	ST	56 04 08	1731	145	472	3.07	100.0	5	9
60.0	60.0	37 37.5	123 37.0	ST	56 04 08	2011	141	422	3.34	100.0	16	41
60.0	70.0	37 17.0	124 20.5	ST	56 04 09	0340	138	463	2.97	50.0	9	23
60.0	80.0	36 58.5	125 00.0	ST	56 04 09	1040	104	596	1.74	25.0	10	69
60.0	90.0	36 37.0	125 47.0	ST	56 04 09	1641	139	410	3.40	25.0	7	7
63.0	52.0	37 17.5	122 36.0	ST	56 04 10	1412	106	448	2.38	100.0	4	56
63.0	55.0	37 11.5	122 49.0	ST	56 04 10	1228	123	432	2.84	6.0	0	2
63.0	65.0	36 49.5	123 31.0	ST	56 04 10	0723	133	417	3.19	6.0	2	4
63.0	80.0	36 21.0	124 36.0	ST	56 04 10	0011	142	455	3.13	50.0	33	3
67.0	50.0	36 49.5	122 05.0	ST	56 04 10	1928	73	232	3.16	50.0	4	6
67.0	55.0	36 39.0	122 26.0	ST	56 04 10	2213	133	478	2.78	12.0	3	8
67.0	65.0	36 19.0	123 09.0	ST	56 04 11	0406	140	388	3.61	50.0	22	0
67.0	80.0	35 48.5	124 13.5	ST	56 04 11	1221	143	425	3.36	50.0	5	17
70.0	52.0	36 08.5	121 50.5	ST	56 04 13	0311	131	427	3.06	50.0	13	4
70.0	55.0	36 03.5	122 01.0	ST	56 04 13	0056	117	494	2.37	50.0	32	5
70.0	60.0	35 53.0	122 22.0	ST	56 04 12	2141	132	486	2.71	25.0	25	9
70.0	70.0	35 26.0	123 20.5	ST	56 04 12	1259	149	382	3.90	12.0	0	4
70.0	80.0	35 14.5	123 45.0	ST	56 04 12	0928	132	387	3.40	12.0	4	4
70.0	90.0	34 54.0	124 26.0	ST	56 04 12	0141	140	436	3.20	25.0	11	14
73.0	50.0	35 37.0	121 17.0	ST	56 04 13	0740	90	275	3.28	100.0	16	18
73.0	60.0	34 58.0	122 39.0	ST	56 04 13	1141	144	417	3.45	25.0	2	14
73.0	70.0	34 18.0	121 57.0	ST	56 04 13	1626	110	484	2.27	25.0	0	5
77.0	50.0	35 04.0	120 54.5	ST	56 04 14	0546	130	410	3.18	25.0	4	6
77.0	55.0	34 54.5	121 16.0	ST	56 04 14	0240	116	484	2.39	50.0	50	13
77.0	55.0	34 35.0	121 57.0	ST	56 04 13	2134	130	425	3.06	50.0	19	33
80.0	51.0	34 25.5	120 32.5	ST	56 04 14	1016	115	490	2.36	100.0	21	10
80.0	55.0	34 19.0	120 48.0	ST	56 04 14	1206	140	432	3.23	100.0	21	29
80.0	60.0	34 08.5	121 09.0	ST	56 04 14	1442	149	362	4.12	50.0	8	6
80.0	70.0	33 48.5	121 51.0	ST	56 04 14	1956	143	424	3.38	50.0	13	9
80.0	80.0	33 29.0	122 32.0	ST	56 04 15	0056	151	404	3.73	100.0	21	100
80.0	90.0	33 09.0	123 13.5	ST	56 04 15	0536	142	390	3.64	50.0	6	79
82.0	47.0	34 15.0	119 58.0	ST	56 04 16	0956	124	406	3.06	50.0	4	16
83.0	40.0	34 13.5	119 21.5	ST	56 04 17	1338	9	122	0.77	100.0	13	713
83.0	43.0	34 08.5	119 34.5	ST	56 04 17	1141	123	429	2.87	50.0	5	9
83.0	51.0	33 51.5	120 08.0	ST	56 04 16	0616	104	362	2.87	100.0	46	11
83.0	55.0	33 42.5	120 23.5	ST	56 04 16	0403	142	432	3.28	100.0	40	11
83.0	60.0	33 33.5	120 45.0	ST	56 04 16	0042	141	414	3.39	50.0	7	9
83.0	70.0	33 14.0	121 25.5	ST	56 04 15	1956	154	382	4.04	100.0	23	108
83.0	80.0	32 54.0	122 07.5	ST	56 04 15	1511	135	414	3.27	100.0	8	13
83.0	90.0	32 34.0	122 48.0	ST	56 04 15	1024	130	425	3.06	100.0	23	39
87.0	36.0	33 47.5	118 43.5	ST	56 04 17	1806	137	418	3.29	100.0	29	305
87.0	40.0	33 38.5	118 58.0	ST	56 04 17	2136	142	397	3.58	50.0	57	52
87.0	50.0	33 20.0	119 40.0	ST	56 04 18	0234	65	251	2.61	100.0	109	27

TABLE 1. (cont.)

## CALCOFI Cruise 5604

Line	Station	Lat. (N) deg. min.	Long. (W) deg. min.	Ship Code	Tow Date yr. mo. day	Time (PST)	Tow Depth (m)	Vol. Water Strained (cu. m)	Stand- ard Haul Factor	Percent Sorted	Total Larvae	Total Eggs
87.0	60.0	33 00.0	120 22.0	ST	56 04 18	0634	138	363	3.82	50.0	11	31
87.0	70.0	32 40.0	121 03.0	ST	56 04 18	1126	138	392	3.53	50.0	10	13
87.0	80.0	32 20.0	121 43.0	ST	56 04 18	1626	145	403	3.61	100.0	6	16
87.0	90.0	32 00.0	122 24.0	ST	56 04 18	2051	125	429	2.93	100.0	14	33
90.0	28.0	33 28.0	117 46.0	ST	56 04 20	1208	61	315	1.94	100.0	287	345
90.0	30.0	33 24.0	117 55.5	ST	56 04 20	1016	120	410	2.93	50.0	38	407
90.0	37.0	33 10.5	118 23.0	ST	56 04 20	0621	136	412	3.30	100.0	110	369
90.0	45.0	32 54.5	118 55.5	ST	56 04 20	0211	121	442	2.75	100.0	266	359
90.0	55.0	32 34.5	119 37.0	ST	56 04 19	2045	142	329	4.33	50.0	52	74
90.0	60.0	32 24.5	119 57.5	ST	56 04 19	1747	151	380	3.97	50.0	15	44
90.0	70.0	32 04.5	120 38.0	ST	56 04 19	1226	143	404	3.54	50.0	6	18
90.0	80.0	31 44.0	121 19.5	ST	56 04 19	0631	133	426	3.12	100.0	3	60
90.0	90.0	31 25.0	121 58.5	ST	56 04 19	0134	143	397	3.60	100.0	16	13
93.0	27.0	32 55.5	117 20.0	ST	56 04 20	1601	128	420	3.05	50.0	100	66
93.0	30.0	32 50.0	117 31.5	ST	56 04 20	1726	132	441	2.99	100.0	35	151
93.0	40.0	32 30.0	118 13.0	ST	56 04 20	2139	142	383	3.72	100.0	17	95
93.0	50.0	32 10.0	118 53.0	ST	56 04 21	0211	149	376	3.95	100.0	31	21
93.0	60.0	31 50.0	119 34.0	ST	56 04 21	0656	131	428	3.05	100.0	25	11
93.0	70.0	31 30.0	120 14.0	ST	56 04 21	1136	137	405	3.38	100.0	5	56
93.0	80.0	31 09.0	120 51.0	ST	56 04 21	1716	121	422	2.87	100.0	5	8
93.0	90.0	30 45.5	121 32.0	ST	56 04 21	2318	155	335	4.64	100.0	7	21
97.0	30.0	32 16.0	117 09.0	ST	56 04 23	1344	47	160	2.94	50.0	438	273
97.0	32.0	32 13.0	117 22.0	ST	56 04 23	1123	121	416	2.91	100.0	89	107
97.0	40.0	31 55.5	117 53.5	ST	56 04 23	0711	139	386	3.61	100.0	3	6
97.0	50.0	31 34.5	118 32.0	ST	56 04 23	0256	137	379	3.60	100.0	14	14
97.0	60.0	31 15.0	119 10.5	ST	56 04 22	2132	125	443	2.83	50.0	6	46
97.0	70.0	30 46.5	119 38.5	ST	56 04 22	1601	140	358	3.92	100.0	12	46
97.0	80.0	30 34.0	120 22.5	ST	56 04 22	1011	155	368	4.20	100.0	7	175
97.0	90.0	30 15.0	121 12.0	ST	56 04 22	0501	132	412	3.19	25.0	20	235
100.0	29.0	31 42.0	116 43.0	ST	56 04 23	1741	139	409	3.40	50.0	10	7
100.0	33.0	31 35.0	116 59.0	ST	56 04 23	1936	135	418	3.24	100.0	102	90
100.0	40.0	31 20.5	117 26.5	ST	56 04 23	2317	138	408	3.37	100.0	156	36
100.0	50.0	31 00.5	118 08.0	ST	56 04 24	0421	137	413	3.33	100.0	25	128
100.0	60.0	30 40.5	118 47.0	ST	56 04 24	0906	139	403	3.45	100.0	6	309
100.0	70.0	30 21.0	119 27.0	ST	56 04 24	1406	126	486	2.60	6.0	0	268
100.0	80.0	30 00.0	120 09.0	ST	56 04 24	1956	140	377	3.72	100.0	11	255
100.0	90.0	29 41.0	120 46.0	ST	56 04 25	0131	137	429	3.19	50.0	26	418
103.0	30.0	31 07.0	116 28.0	ST	56 04 26	1338	59	267	2.20	100.0	51	77
103.0	35.0	30 59.0	116 47.0	ST	56 04 26	1046	138	404	3.43	100.0	26	56
103.0	40.0	30 47.0	117 11.0	ST	56 04 26	0756	134	404	3.34	100.0	32	86
103.0	50.0	30 29.5	117 46.0	ST	56 04 26	0231	134	423	3.16	100.0	5	67
103.0	60.0	30 08.5	118 25.0	ST	56 04 25	2120	141	411	3.42	50.0	14	535
103.0	70.0	29 47.5	119 04.5	ST	56 04 25	1556	121	411	2.95	100.0	15	70
103.0	80.0	29 28.5	119 43.0	ST	56 04 25	1116	135	413	3.27	100.0	8	76
103.0	90.0	29 07.0	120 23.0	ST	56 04 25	0641	133	422	3.16	25.0	0	34

TABLE 1. (cont.)

## CALCOFI Cruise 5604

Line	Station	Lat. (N) deg. min.	Long. (W) deg. min.	Ship Code	Tow Date yr. mo. day	Time (PST)	Tow Depth (m)	Vol. Water Strained (cu. m)	Stand- ard Haul Factor	Percent Sorted	Total Larvae	Total Eggs
107.0	32.0	30 25.9	116 11.0	SB	56 04 26	1736	129	511	2.52	100.0	3	30
107.0	35.0	30 20.3	116 22.6	SB	56 04 26	1606	128	494	2.58	50.0	4	12
107.0	40.0	30 12.0	116 44.0	SB	56 04 26	1306	147	446	3.30	100.0	6	223
107.0	50.0	29 53.6	117 23.0	SB	56 04 26	0811	115	514	2.24	100.0	6	251
107.0	60.0	29 32.0	118 01.5	SB	56 04 26	0221	120	490	2.44	50.0	7	140
107.0	70.0	29 12.0	118 42.5	SB	56 04 25	2231	130	502	2.59	25.0	0	10
107.0	80.0	28 52.0	119 22.0	SB	56 04 25	1731	125	553	2.27	50.0	6	64
107.0	90.0	28 32.0	119 55.5	SB	56 04 25	1256	139	459	3.04	100.0	7	659
110.0	33.0	29 50.5	115 52.5	SB	56 04 24	0058	73	223	3.27	25.0	47	19
110.0	35.0	29 45.2	116 00.0	SB	56 04 24	0311	123	412	2.98	100.0	95	124
110.0	40.0	29 36.5	116 20.5	SB	56 04 24	0621	124	445	2.78	50.0	18	19
110.0	50.0	29 19.0	117 00.0	SB	56 04 24	1011	119	462	2.59	25.0	1	93
110.0	60.0	28 57.0	117 38.5	SB	56 04 24	1611	127	487	2.61	25.0	6	93
110.0	70.0	28 37.0	118 20.0	SB	56 04 24	2126	112	545	2.05	100.0	49	189
110.0	80.0	28 15.2	119 34.0	SB	56 04 25	0221	123	509	2.41	100.0	26	115
113.0	30.0	29 21.0	115 16.2	SB	56 04 23	1945	50	555	2.11	100.0	13	11
113.0	35.0	29 18.0	115 41.0	SB	56 04 23	1710	125	154	3.22	25.0	182	21
113.0	40.0	29 12.0	116 07.0	SB	56 04 23	1356	125	439	2.86	50.0	18	53
113.0	50.0	28 54.0	116 37.0	SB	56 04 23	0956	107	578	2.43	100.0	49	96
113.0	60.0	28 28.0	117 18.0	SB	56 04 23	0430	136	501	1.85	25.0	4	96
113.0	70.0	28 03.0	117 55.5	SB	56 04 22	2310	137	480	2.71	25.0	18	332
117.0	26.0	27 37.0	118 33.1	SB	56 04 22	1741	122	558	2.85	25.0	3	600
117.0	30.0	28 55.8	114 40.8	SB	56 04 20	2313	51	269	1.90	25.0	74	21
117.0	30.0	28 48.0	114 56.5	SB	56 04 21	0107	35	278	1.25	25.0	79	259
117.0	35.0	28 37.8	115 16.2	SB	56 04 21	0325	137	528	2.59	50.0	126	374
117.0	40.0	28 26.2	115 35.0	SB	56 04 21	1621	137	514	2.66	100.0	109	204
117.0	50.0	28 07.8	116 15.0	SB	56 04 21	2131	120	438	2.24	100.0	19	31
117.0	60.0	27 47.5	116 56.0	SB	56 04 22	0325	120	330	2.27	100.0	10	137
117.0	70.0	27 24.2	117 39.5	SB	56 04 22	0810	151	422	3.58	100.0	9	866
117.0	80.0	27 06.0	118 11.5	SB	56 04 22	1126	142	472	3.02	100.0	19	206
119.0	33.0	28 18.0	114 53.4	SB	56 04 20	1342	97	386	2.51	50.0	92	191
120.0	25.0	28 23.3	114 14.4	SB	56 04 20	1602	44	160	2.74	25.0	325	58
120.0	30.0	28 13.2	114 34.7	SB	56 04 20	1014	94	250	3.75	50.0	83	449
120.0	40.0	27 53.0	115 14.0	SB	56 04 20	2145	37	161	2.30	100.0	3	175
120.0	45.0	27 44.1	115 32.8	SB	56 04 19	1635	146	434	3.38	12.0	91	33
120.0	55.0	27 23.0	115 52.5	SB	56 04 19	1326	134	433	3.08	100.0	308	528
120.0	60.0	27 19.0	116 12.0	SB	56 04 19	1016	123	576	2.14	100.0	8	137
120.0	70.0	26 53.5	117 09.5	SB	56 04 19	0440	155	425	3.64	100.0	2	196
120.0	80.0	26 33.0	117 48.9	SB	56 04 18	2245	130	485	2.60	100.0	33	172
123.0	37.0	27 23.1	114 40.2	SB	56 04 17	2038	66	275	1.85	25.0	8	99
123.0	40.0	27 18.5	114 51.2	SB	56 04 17	2223	119	559	2.38	100.0	68	38
123.0	42.0	27 14.0	114 59.2	SB	56 04 17	0015	147	440	2.13	100.0	43	104
123.0	50.0	26 55.5	115 33.0	SB	56 04 18	0436	128	501	2.56	50.0	47	94

TABLE 1. (cont.)

## CALCOFI Cruise 5604

Line	Station	Lat.(N) deg. min.	Long.(W) deg. min.	Ship Code	Tow Date yr. mo. day	Time (PST)	Tow Depth (m)	Vol. Water Strained (cu. m)	Stand- ard Haul Factor	Percent Sorted	Total Larvae	Total Eggs
123.0	60.0	26 39.0	116 07.5	SB	56 04 18	1036	132	516	2.56	100.0	38	82
127.0	34.0	26 55.5	114 06.0	SB	56 04 17	1608	52	278	3.77	50.0	15	43
127.0	40.0	26 44.0	114 29.5	SB	56 04 17	1316	85	226	3.03	25.0	17	126
127.0	50.0	26 20.0	115 12.0	SB	56 04 17	0715	136	449	2.75	50.0	58	1318
127.0	60.0	26 03.5	115 48.0	SB	56 04 17	0045	131	476	3.34	100.0	37	173
130.0	30.0	26 28.5	113 23.5	SB	56 04 16	0243	68	190	3.61	50.0	12	315
130.0	35.0	26 16.0	113 47.0	SB	56 04 16	0540	140	491	2.86	100.0	26	35
130.0	40.0	26 07.5	114 06.5	SB	56 04 16	0835	138	484	2.86	100.0	3	2
130.0	50.0	25 49.0	114 44.0	SB	56 04 16	1356	133	474	2.80	100.0	18	121
130.0	60.0	25 26.0	115 25.0	SB	56 04 16	1926	135	480	2.81	100.0	18	144
133.0	25.0	26 04.2	112 48.8	SB	56 04 15	2200	70	247	2.85	50.0	5	6
133.0	30.0	25 59.2	113 10.0	SB	56 04 15	1915	152	460	3.30	6.0	0	7
133.0	40.0	25 35.4	113 49.9	SB	56 04 15	1320	139	480	2.90	100.0	3	18
137.0	23.0	25 34.0	112 16.6	SB	56 04 14	2150	46	188	2.44	25.0	54	3
137.0	30.0	25 19.6	112 44.0	SB	56 04 15	0206	131	452	2.91	12.0	13	214
137.0	40.0	25 00.4	113 23.6	SB	56 04 15	0716	146	459	3.18	100.0	38	228
140.0	30.0	24 47.2	112 26.2	SB	56 04 14	1635	79	276	2.87	50.0	22	68
140.0	35.0	24 37.0	112 44.2	SB	56 04 14	1356	113	508	2.23	100.0	1413	564
140.0	40.0	24 24.5	113 04.0	SB	56 04 14	1041	133	492	2.70	100.0	149	17
143.0	26.0	24 19.0	111 48.0	SB	56 04 12	1843	73	264	2.76	100.0	3	4
143.0	30.0	24 10.8	112 03.2	SB	56 04 13	2041	128	510	2.51	50.0	549	32
143.0	35.0	24 01.2	112 21.8	SB	56 04 13	2350	138	537	2.39	25.0	17	4
143.0	40.0	23 50.5	112 46.1	SB	56 04 14	0350	119	534	2.22	100.0	69	182
147.0	20.0	23 56.2	111 04.0	SB	56 04 12	1330	142	449	3.16	100.0	1	0
147.0	25.0	23 48.8	111 19.8	SB	56 04 12	1110	124	520	2.39	100.0	6	166
147.0	30.0	23 36.5	111 42.5	SB	56 04 12	0741	134	492	2.73	100.0	1	13
147.0	35.0	23 26.0	112 03.8	SB	56 04 12	0411	140	526	2.66	50.0	1	124
147.0	40.0	23 15.0	112 21.2	SB	56 04 11	2350	110	572	1.93	100.0	242	167
150.0	19.0	23 23.2	110 42.8	SB	56 04 11	0515	134	514	2.60	50.0	0	5
150.0	25.0	23 12.6	111 02.0	SB	56 04 11	0826	129	493	2.62	100.0	2	63
150.0	30.0	23 04.5	111 18.8	SB	56 04 11	1146	112	534	2.09	100.0	24	214
150.0	40.0	22 54.8	111 55.2	SB	56 04 11	1742	155	452	3.43	100.0	14	357
153.0	16.0	22 54.5	110 07.0	SB	56 04 10	2245	135	503	2.69	50.0	3	1
153.0	20.0	22 48.5	110 22.0	SB	56 04 10	2006	132	519	2.54	50.0	3	17
153.0	30.0	22 05.0	110 59.0	SB	56 04 10	1416	145	468	3.09	100.0	2	119
153.0	40.0	21 46.0	111 36.2	SB	56 04 10	0818	149	488	3.04	100.0	38	21
153.0	50.0	21 26.0	112 13.0	SB	56 04 10	0241	139	410	2.13	50.0	120	31
153.0	60.0	21 26.0	112 50.6	SB	56 04 09	2141	145	495	2.94	25.0	27	185
157.0	20.0	22 17.5	110 01.0	SB	56 04 08	1806	138	446	3.10	25.0	13	10
157.0	30.0	21 52.0	110 38.0	SB	56 04 08	2341	116	479	2.42	50.0	12	14
157.0	40.0	21 31.0	111 12.0	SB	56 04 09	0501	133	532	2.49	100.0	86	52
157.0	50.0	21 10.0	111 52.0	SB	56 04 09	1005	143	406	3.07	100.0	28	29
157.0	60.0	20 54.0	112 30.5	SB	56 04 09	1616	138	465	2.97	25.0	20	303

TABLE 1. (cont.)

## CALCOFI Cruise 5605

Line	Station	Lat. (N) deg. min.	Long. (W) deg. min.	Ship Code	Tow Date yr. mo. day	Time (PST)	Tow Depth (m)	Vol. Water Strained (cu. m)	Stand- ard Haul Factor	Percent Sorted	Total Larvae	Total Eggs
40.0	38.0	41 46.6	124 30.5	SB	56 05 13	2316	136	447	3.04	50.0	0	6
40.0	40.0	41 43.1	124 37.8	SB	56 05 14	0016	135	450	3.00	25.0	29	1
40.0	45.0	41 35.0	125 02.0	SB	56 05 14	0246	112	481	2.33	50.0	88	12
40.0	50.0	41 21.0	125 37.0	SB	56 05 14	0516	130	462	2.81	50.0	15	6
40.0	60.0	41 07.0	126 10.5	SB	56 05 14	0836	130	438	2.97	50.0	34	7
40.0	70.0	40 47.0	127 01.0	SB	56 05 14	1251	114	495	2.30	12.0	8	3
40.0	80.0	40 26.0	127 41.0	SB	56 05 14	1641	137	466	2.94	25.0	2	9
40.0	90.0	40 06.0	128 29.0	SB	56 05 14	2121	123	450	2.74	6.0	2	0
43.0	42.0	41 03.7	124 21.7	SB	56 05 13	1746	145	410	3.53	100.0	51	27
43.0	50.0	40 47.0	124 59.8	SB	56 05 13	1356	118	517	2.29	50.0	7	15
43.0	60.0	40 24.0	125 44.0	SB	56 05 13	0926	136	390	3.49	6.0	2	0
47.0	50.0	40 14.0	124 32.2	SB	56 05 13	0026	152	375	4.06	25.0	5	3
47.0	55.0	40 04.4	124 54.8	SB	56 05 13	0306	102	552	1.86	12.0	18	96
47.0	60.0	40 06.0	125 18.0	SB	56 05 13	0541	138	425	3.26	25.0	28	123
50.0	47.0	39 46.0	123 53.8	SB	56 05 12	1803	69	245	2.84	100.0	11	15
50.0	50.0	39 40.0	124 08.1	SB	56 05 16	0526	130	447	2.90	25.0	11	22
50.0	55.0	39 25.0	124 31.0	SB	56 05 16	0216	140	452	3.10	100.0	25	22
50.0	60.0	39 16.7	124 54.0	SB	56 05 15	1936	150	385	3.90	50.0	60	13
50.0	70.0	39 04.0	125 34.0	SB	56 05 15	0946	112	538	2.07	25.0	29	40
50.0	80.0	38 40.0	126 21.5	SB	56 05 15	1451	138	428	3.24	12.0	12	4
50.0	90.0	38 21.0	127 07.0	SB	56 05 12	1047	118	299	3.35	25.0	3	0
53.0	52.0	39 00.8	123 52.1	SB	56 05 12	0911	139	446	3.94	50.0	1	8
53.0	55.0	38 57.0	124 03.5	SB	56 05 12	0336	127	461	3.11	50.0	11	15
53.0	65.0	38 32.0	124 58.0	SB	56 05 10	0528	86	264	2.76	25.0	44	10
57.0	51.0	38 30.0	123 22.0	SB	56 05 11	1801	131	467	3.24	100.0	2	40
57.0	55.0	38 22.0	123 39.5	SB	56 05 11	0226	141	431	2.80	50.0	13	14
57.0	65.0	37 59.0	124 29.0	SB	56 05 11	2241	129	412	3.12	25.0	4	8
60.0	55.0	37 47.2	123 17.5	SB	56 05 09	0026	141	456	3.27	12.0	1	1
60.0	60.0	37 37.0	123 42.5	SB	56 05 09	2206	131	474	2.60	50.0	10	6
60.0	70.0	37 17.0	124 26.5	SB	56 05 09	1711	123	474	2.52	12.0	28	18
60.0	80.0	37 01.0	125 07.0	SB	56 05 09	1246	120	476	2.87	25.0	3	9
60.0	90.0	36 36.0	125 56.0	SB	56 05 09	0806	136	349	3.89	50.0	9	9
63.0	52.0	37 18.7	122 36.8	SB	56 05 08	1501	94	499	1.88	100.0	3	132
63.0	55.0	37 12.6	122 49.6	SB	56 05 08	1646	118	459	2.57	25.0	0	23
63.0	65.0	36 52.0	123 31.0	SB	56 05 08	2116	149	435	3.41	6.0	3	3
67.0	50.0	36 49.0	122 04.5	SB	56 05 08	1027	73	234	3.10	100.0	1	20
67.0	55.0	36 39.0	122 26.0	SB	56 05 08	0756	134	420	3.18	25.0	0	2
67.0	65.0	36 19.0	123 09.0	SB	56 05 08	0341	97	579	1.67	25.0	13	8
70.0	52.0	36 08.5	121 50.0	SB	56 05 07	0056	106	500	2.11	50.0	45	1
70.0	55.0	36 03.5	122 03.0	SB	56 05 07	0226	122	458	2.67	6.0	1	1
70.0	60.0	35 54.0	122 29.5	SB	56 05 07	0441	151	435	3.46	6.0	0	1
70.0	70.0	35 33.5	123 06.0	SB	56 05 07	0851	138	304	4.53	6.0	0	0
70.0	80.0	35 12.0	123 47.0	SB	56 05 07	1301	119	458	2.59	50.0	12	22
70.0	90.0	34 54.0	124 30.0	SB	56 05 07	1706	126	395	3.18	6.0	1	1
73.0	50.0	35 37.2	121 17.0	SB	56 05 06	2026	125	475	2.62	25.0	8	1

TABLE 1. (cont.)

## CALCOFI Cruise 5605

Line	Station	Lat. (N) deg. min.	Long. (W) deg. min.	Ship Code	Tow Date yr. mo. day	Time (PST)	Tow Depth (m)	Vol. Water Strained (cu. m)	Stand- ard Haul Factor	Percent Sorted	Total Larvae	Total Eggs
73.0	60.0	35 21.0	121 58.5	SB	56 05 06	1556	129	493	2.61	25.0	6	0
73.0	70.0	34 56.5	122 41.0	SB	56 05 06	1151	106	524	2.02	12.0	0	4
73.0	80.0	34 37.5	123 21.5	SB	56 05 06	0746	133	366	3.64	12.0	1	11
77.0	50.0	35 04.0	120 52.0	SB	56 05 05	1407	107	424	2.52	100.0	5	137
77.0	55.0	34 53.8	121 13.5	SB	56 05 05	1647	130	446	2.91	100.0	18	3
77.0	60.0	34 44.5	121 34.0	SB	56 05 05	1902	127	480	2.65	12.0	2	2
77.0	70.0	34 25.1	122 17.0	SB	56 05 05	2316	130	292	4.46	50.0	13	35
77.0	80.0	34 05.0	123 03.0	SB	56 05 06	0341	107	358	2.99	12.0	9	35
80.0	51.0	34 26.5	120 32.5	BD	56 05 06	0442	98	466	2.10	100.0	7	38
80.0	55.0	34 19.0	120 48.0	BD	56 05 06	0711	134	513	2.61	6.0	4	1
80.0	60.0	34 12.8	121 10.5	BD	56 05 06	0916	139	448	3.12	100.0	9	18
80.0	70.0	33 49.0	121 51.0	BD	56 05 06	1421	133	495	2.68	100.0	10	168
80.0	80.0	33 28.5	122 31.0	BD	56 05 06	1941	141	443	3.20	12.0	4	10
82.0	47.0	34 15.0	119 58.0	BD	56 05 07	0013	141	490	2.87	100.0	6	34
83.0	40.0	34 07.5	119 34.5	BD	56 05 08	0356	131	532	2.47	50.0	38	50
83.0	51.0	33 51.5	120 08.0	BD	56 05 08	0824	17	124	1.39	50.0	30	1007
83.0	55.0	33 43.5	120 24.0	BD	56 05 07	0026	136	468	2.91	100.0	28	34
83.0	60.0	33 33.0	120 39.5	BD	56 05 07	2206	137	488	2.81	100.0	217	29
83.0	70.0	33 14.0	121 26.0	BD	56 05 07	1936	127	401	3.16	50.0	13	42
83.0	80.0	33 48.0	122 07.5	BD	56 05 07	0936	135	542	2.41	100.0	19	17
83.0	90.0	32 32.0	122 40.0	BD	56 05 07	0516	143	493	2.73	50.0	1	3
87.0	36.0	33 48.0	118 42.0	BD	56 05 08	1321	134	448	3.19	100.0	0	8
87.0	45.0	33 39.0	119 19.0	BD	56 05 09	0511	149	527	2.53	100.0	67	529
87.0	50.0	33 30.0	119 40.0	BD	56 05 09	0806	140	410	3.62	100.0	22	41
87.0	55.0	33 20.0	120 00.5	BD	56 05 09	1126	148	460	3.03	100.0	13	41
87.0	60.0	32 59.0	120 22.0	BD	56 05 09	1406	148	302	2.03	100.0	23	17
87.0	65.0	32 47.0	120 42.0	BD	56 05 09	1726	125	438	3.39	25.0	1	33
87.0	70.0	32 36.0	121 09.0	BD	56 05 10	0006	136	522	2.40	100.0	3	71
87.0	75.0	32 26.0	121 34.5	BD	56 05 10	0304	115	503	2.70	50.0	12	41
87.0	80.0	32 16.0	121 58.0	BD	56 05 10	0610	143	547	2.42	50.0	15	377
87.0	90.0	32 06.0	122 23.5	BD	56 05 10	0851	138	466	2.05	100.0	62	2092
90.0	28.0	33 28.5	117 45.5	BD	56 05 12	0934	31	501	2.75	100.0	3	157
90.0	33 24.0	33 24.0	117 54.5	BD	56 05 12	0811	141	447	2.08	25.0	122	338
90.0	37.0	33 11.0	118 23.5	BD	56 05 12	0450	127	476	3.15	100.0	26	271
90.0	45.0	32 54.5	118 56.0	BD	56 05 12	0056	154	369	2.67	50.0	129	255
90.0	50.0	32 44.5	119 16.5	BD	56 05 11	2156	128	476	4.16	12.0	21	22
90.0	55.0	32 31.0	119 38.0	BD	56 05 11	1806	134	559	2.28	50.0	54	18
90.0	60.0	32 21.0	119 56.0	BD	56 05 11	1512	142	371	3.61	25.0	15	544
90.0	65.0	32 14.0	120 18.0	BD	56 05 11	0940	130	454	3.14	50.0	10	628
90.0	70.0	32 04.0	120 39.0	BD	56 05 11	0616	142	464	2.38	100.0	31	203
90.0	75.0	31 52.5	121 02.0	BD	56 05 11	0616	144	448	3.07	50.0	8	515
90.0	80.0	31 42.5	121 23.0	BD	56 05 11	0336	130	544	3.20	25.0	3	440
									2.38	25.0	38	1163



TABLE 1. (cont.)

## CALCOFI Cruise 5605

Line	Station	Lat. (N) deg. min.	Long. (W) deg. min.	Ship Code	Tow Date yr. mo. day	Time (PST)	Tow Depth (m)	Vol. Water Strained (cu. m)	Stand- ard Haul Factor	Percent Sorted	Total Larvae	Total Eggs
90.0	85.0	31 33.5	121 42.0	BD	56 05 11	0101	112	566	1.98	50.0	1	323
90.0	90.0	31 25.0	121 59.0	BD	56 05 10	2228	147	457	3.21	50.0	12	114
90.0	95.0	31 12.0	122 21.0	BD	56 05 10	1926	143	448	3.19	100.0	13	359
90.0	100.0	31 03.5	122 40.0	BD	56 05 10	1646	121	536	2.27	25.0	2	50
93.0	27.0	32 55.5	117 19.0	BD	56 05 12	1858	85	305	2.80	25.0	21	187
93.0	30.0	32 50.0	117 31.5	BD	56 05 12	2056	141	468	3.01	100.0	18	19
93.0	35.0	32 40.0	117 51.5	BD	56 05 12	2334	142	459	3.10	50.0	17	36
93.0	40.0	32 30.0	118 12.0	BD	56 05 13	0211	107	566	1.89	50.0	11	9
93.0	45.0	32 19.0	118 33.0	BD	56 05 13	0436	134	474	2.83	100.0	28	98
93.0	50.0	32 09.0	118 53.0	BD	56 05 13	0711	148	419	3.54	100.0	45	140
93.0	55.0	31 59.0	119 14.5	BD	56 05 13	0946	118	508	2.32	50.0	15	227
93.0	60.0	31 49.5	119 34.0	BD	56 05 13	1255	146	424	3.43	25.0	5	79
93.0	70.0	31 34.0	120 07.0	BD	56 05 16	0231	140	499	2.80	25.0	25	228
93.0	75.0	31 24.0	120 28.0	BD	56 05 16	0506	146	431	3.38	50.0	25	557
93.0	80.0	31 19.0	120 51.0	BD	56 05 16	0751	144	462	3.11	50.0	5	121
93.0	85.0	31 03.0	121 17.0	BD	56 05 16	1041	139	468	2.98	100.0	21	303
93.0	90.0	30 50.0	121 34.5	BD	56 05 16	1323	145	440	3.30	50.0	4	124
93.0	95.0	30 40.5	121 55.0	BD	56 05 16	1600	146	451	3.23	50.0	0	78
93.0	100.0	30 30.0	122 14.5	BD	56 05 16	1851	112	562	1.99	50.0	7	293
97.0	30.0	32 15.4	117 09.0	BD	56 05 18	1500	47	197	2.38	100.0	18	238
97.0	32.0	32 11.5	117 17.0	BD	56 05 18	1344	161	463	3.47	100.0	69	130
97.0	40.0	31 55.5	117 50.0	BD	56 05 18	0928	151	445	3.40	100.0	10	327
97.0	45.0	31 43.0	118 10.0	BD	56 05 18	0641	141	367	3.83	100.0	19	280
97.0	50.0	31 38.0	118 33.0	BD	56 05 18	0301	155	405	3.82	25.0	0	116
97.0	55.0	31 26.0	118 53.0	BD	56 05 18	0006	148	386	3.85	100.0	21	1590
97.0	60.0	31 15.5	119 10.5	BD	56 05 17	2132	148	463	3.21	25.0	6	64
97.0	65.0	31 08.0	119 25.0	BD	56 05 17	1931	133	508	2.63	25.0	6	117
97.0	70.0	30 55.0	119 51.0	BD	56 05 17	1611	141	456	3.09	25.0	1	58
97.0	75.0	30 45.0	120 11.0	BD	56 05 17	1331	146	464	3.14	25.0	3	51
97.0	80.0	30 34.5	120 30.0	BD	56 05 17	1041	148	490	3.03	25.0	3	115
97.0	85.0	30 25.0	120 51.0	BD	56 05 17	0811	142	494	2.87	25.0	2	66
97.0	90.0	30 15.0	121 11.0	BD	56 05 17	0504	143	458	3.13	25.0	4	132
97.0	95.0	30 05.0	121 30.5	BD	56 05 17	0224	144	453	3.18	25.0	2	99
97.0	100.0	29 54.5	121 51.0	BD	56 05 16	2346	148	409	3.62	25.0	2	134
100.0	29.0	31 42.2	116 43.4	BD	56 05 18	1916	137	489	2.79	50.0	7	8
100.0	30.0	31 40.5	116 46.5	BD	56 05 18	2006	150	463	3.24	100.0	56	31
100.0	35.0	31 30.2	117 07.0	BD	56 05 18	2236	141	460	3.07	100.0	125	59
100.0	40.0	31 22.0	117 27.0	BD	56 05 19	0118	141	515	2.74	50.0	81	166
100.0	45.0	31 15.0	117 46.0	BD	56 05 19	0351	145	480	3.02	50.0	20	488
100.0	50.0	30 58.5	118 11.5	BD	56 05 19	0701	133	564	2.36	25.0	1	41
100.0	55.0	30 49.5	118 27.5	BD	56 05 19	0921	136	471	2.88	12.0	3	25
100.0	60.0	30 40.5	118 48.0	BD	56 05 19	1246	142	469	3.03	50.0	16	87
100.0	65.0	30 30.0	119 08.0	BD	56 05 19	1556	143	466	3.07	50.0	2	16
100.0	70.0	30 20.0	119 28.0	BD	56 05 19	1856	140	468	3.00	50.0	0	267
100.0	75.0	30 10.0	119 48.0	BD	56 05 19	2332	139	457	3.04	100.0	3	185

TABLE 1. (cont.)

## CALCOFI Cruise 5605

Line	Station	Lat. (N) deg. min.	Long. (W) deg. min.	Ship Code	Tow Date yr. mo. day	Time (PST)	Tow Depth (m)	Vol. Water Strained (cu. m)	Stand- ard Haul Factor	Percent Sorted	Total Larvae	Total Eggs
100.0	80.0	30 00.0	120 08.0	BD	56 05 20	0216	114	498	2.29	50.0	7	42
100.0	85.0	29 49.0	120 26.5	BD	56 05 20	0506	142	438	3.25	100.0	13	73
100.0	90.0	29 39.0	120 46.5	BD	56 05 20	0751	132	499	2.65	100.0	26	206
100.0	95.0	29 28.0	121 07.0	BD	56 05 20	1036	155	390	3.98	100.0	13	104
100.0	100.0	29 20.0	121 26.5	BD	56 05 20	1302	124	558	2.23	25.0	13	47
103.0	30.0	31 05.0	116 26.0	ST	56 05 19	1213	68	118	5.80	100.0	0	64
103.0	35.0	30 57.0	116 45.0	ST	56 05 19	1421	137	288	4.76	100.0	3	32
103.0	40.0	30 47.0	117 05.5	ST	56 05 19	1631	143	476	3.00	100.0	14	91
103.0	45.0	30 37.5	117 26.0	ST	56 05 19	1856	141	482	2.92	100.0	238	223
103.0	50.0	30 29.0	117 45.0	ST	56 05 19	2111	147	469	3.13	100.0	96	321
103.0	55.0	30 19.0	118 06.5	ST	56 05 19	2336	143	455	3.15	100.0	39	349
103.0	60.0	31 10.5	118 25.0	BD	56 05 20	0146	142	465	3.06	100.0	62	495
103.0	65.0	29 56.0	118 34.0	BD	56 05 21	1321	128	471	2.71	50.0	2	121
103.0	70.0	29 47.0	119 05.0	BD	56 05 21	1046	131	438	2.99	25.0	1	120
103.0	75.0	29 34.0	119 31.0	BD	56 05 21	0716	134	486	2.77	50.0	7	219
103.0	80.0	29 24.0	119 51.0	BD	56 05 21	0427	145	466	3.12	50.0	6	470
103.0	85.0	29 14.0	120 10.0	BD	56 05 21	0146	128	502	2.56	25.0	6	186
103.0	90.0	29 04.5	120 27.0	BD	56 05 20	2311	135	470	2.88	25.0	6	30
103.0	95.0	28 57.0	120 44.0	BD	56 05 20	2036	124	513	2.43	100.0	13	256
103.0	100.0	28 46.0	121 03.0	BD	56 05 20	1751	146	487	3.01	50.0	6	61
107.0	32.0	30 26.0	116 11.0	ST	56 05 19	0756	137	291	4.70	50.0	8	19
107.0	35.0	30 20.0	116 23.0	ST	56 05 19	0621	142	292	4.87	50.0	1	5
107.0	40.0	30 10.0	116 43.0	ST	56 05 19	0336	133	284	4.68	50.0	3	26
107.0	45.0	30 00.0	117 35.0	ST	56 05 19	0106	141	242	5.83	100.0	15	50
107.0	50.0	29 50.0	117 23.5	ST	56 05 18	2236	137	250	5.47	50.0	4	27
107.0	55.0	29 41.0	117 42.0	ST	56 05 18	2006	136	227	6.02	50.0	4	10
107.0	60.0	29 32.0	118 02.0	ST	56 05 18	1736	144	210	6.86	100.0	3	23
107.0	65.0	29 22.0	118 21.5	ST	56 05 18	1451	136	257	5.28	100.0	10	182
107.0	70.0	29 11.5	118 41.0	ST	56 05 18	1231	144	264	5.47	50.0	4	131
107.0	75.0	29 02.5	119 01.0	ST	56 05 18	1011	141	248	5.70	50.0	1	70
107.0	80.0	28 52.0	119 20.0	ST	56 05 18	0751	142	266	5.35	100.0	8	127
107.0	85.0	28 39.0	119 37.5	ST	56 05 18	0521	150	256	5.88	100.0	17	116
107.0	90.0	28 30.0	119 57.0	ST	56 05 18	0311	136	278	4.89	50.0	19	102
110.0	33.0	29 50.0	115 53.5	ST	56 05 16	1917	105	177	5.95	25.0	5	10
110.0	35.0	29 47.0	116 09.0	ST	56 05 16	2021	132	264	4.99	100.0	21	44
110.0	40.0	29 37.0	116 19.5	ST	56 05 16	2241	139	278	5.00	100.0	12	43
110.0	45.0	29 24.0	116 38.0	ST	56 05 17	0106	143	286	4.99	50.0	1	42
110.0	50.0	29 13.5	116 56.0	ST	56 05 17	0326	130	274	4.74	50.0	12	75
110.0	55.0	29 07.0	117 20.0	ST	56 05 17	0546	146	235	6.19	25.0	3	12
110.0	60.0	28 56.0	117 39.0	ST	56 05 17	0806	142	250	5.70	25.0	3	9
110.0	65.0	28 46.0	117 58.0	ST	56 05 17	1026	141	198	7.12	50.0	3	102
110.0	70.0	28 38.0	118 15.0	ST	56 05 17	1256	134	254	5.28	12.0	0	12
110.0	75.0	28 27.0	118 37.5	ST	56 05 17	1541	147	243	6.05	100.0	11	64
110.0	80.0	28 17.0	118 56.0	ST	56 05 17	1806	144	270	5.36	50.0	11	88
110.0	85.0	28 07.0	119 16.0	ST	56 05 17	2026	130	278	4.68	100.0	89	71

TABLE 1. (cont.)

## CALCOFI Cruise 5605

Line	Station	Lat. (N) deg. min.	Long. (W) deg. min.	Ship Code	Tow Date yr. mo. day	Time (PST)	Tow Depth (m)	Vol. Water Strained (cu. m)	Stand- ard Haul Factor	Percent Sorted	Total Larvae	Total Eggs
110.0	90.0	27 56.0	119 35.0	ST	56 05 17	2241	142	286	4.95	100.0	55	94
113.0	30.0	29 23.0	115 18.0	ST	56 05 16	1439	42	90	4.63	100.0	36	296
113.0	35.0	29 08.0	115 35.0	ST	56 05 16	1211	134	252	5.32	50.0	9	49
113.0	40.0	28 58.0	115 57.5	ST	56 05 16	0936	136	243	5.60	100.0	6	263
113.0	45.0	28 49.0	116 18.0	ST	56 05 16	0706	130	260	4.99	25.0	24	92
113.0	50.0	28 42.0	116 37.0	ST	56 05 16	0426	143	289	4.93	50.0	4	2
113.0	55.0	28 32.0	116 57.0	ST	56 05 16	0156	135	294	4.60	50.0	6	0
113.0	60.0	28 22.0	117 16.0	ST	56 05 15	2331	131	249	5.27	25.0	1	2
113.0	65.0	28 12.0	117 35.0	ST	56 05 15	2056	140	243	5.75	25.0	1	4
113.0	70.0	28 02.0	117 56.0	ST	56 05 15	1816	119	473	2.52	12.0	1	3
113.0	75.0	27 50.0	118 12.5	ST	56 05 15	1551	142	259	5.49	50.0	3	32
113.0	80.0	27 42.5	118 34.0	ST	56 05 15	1346	138	345	4.00	50.0	2	114
117.0	26.0	28 56.0	114 41.0	ST	56 05 14	0518	69	173	4.01	25.0	34	904
117.0	30.0	28 48.0	114 58.0	ST	56 05 14	0708	82	184	4.42	12.0	5	671
117.0	35.0	28 38.0	115 16.0	ST	56 05 14	0916	132	468	2.82	12.0	6	33
117.0	40.0	28 28.0	115 35.5	ST	56 05 14	1316	138	445	3.09	12.0	3	18
117.0	45.0	28 18.0	115 55.0	ST	56 05 14	1531	143	401	3.56	12.0	0	1
117.0	50.0	28 10.0	116 16.0	ST	56 05 14	1741	144	405	3.55	25.0	1	2
117.0	55.0	28 02.0	116 37.0	ST	56 05 14	2001	140	339	4.12	50.0	24	12
117.0	60.0	27 54.0	116 57.0	ST	56 05 14	2216	143	332	4.30	25.0	2	1
117.0	65.0	27 46.0	117 18.0	ST	56 05 15	0026	152	326	4.66	50.0	3	4
117.0	70.0	27 38.0	117 38.5	ST	56 05 15	0311	138	336	4.11	12.0	2	1
117.0	75.0	27 28.0	117 59.0	ST	56 05 15	0526	122	320	3.82	25.0	3	83
117.0	80.0	27 12.0	118 12.0	ST	56 05 15	0741	147	372	3.96	50.0	7	96
118.0	39.0	28 18.5	115 24.0	ST	56 05 14	1136	139	272	5.13	25.0	29	104
119.0	33.0	28 19.0	114 53.0	ST	56 05 13	2057	109	249	4.36	25.0	47	187
120.0	25.0	28 22.5	114 14.0	ST	56 05 14	0129	46	147	3.12	12.0	111	672
120.0	30.0	28 13.0	115 13.5	ST	56 05 12	0427	26	226	3.56	25.0	102	994
120.0	40.0	27 53.0	115 33.0	ST	56 05 12	0156	152	155	1.69	50.0	7	7
120.0	45.0	27 43.0	115 52.5	ST	56 05 11	2321	140	465	3.58	100.0	35	12
120.0	50.0	27 33.0	116 11.5	ST	56 05 11	2011	138	462	3.02	25.0	14	21
120.0	55.0	27 23.0	116 31.5	ST	56 05 11	1731	147	420	2.99	25.0	7	18
120.0	60.0	27 13.0	117 11.0	ST	56 05 11	1236	139	476	3.51	100.0	10	2
120.0	70.0	27 00.0	117 52.0	ST	56 05 11	0746	131	489	2.69	100.0	8	11
120.0	80.0	26 39.0	114 40.0	ST	56 05 10	0813	62	245	2.52	12.0	0	438
123.0	37.0	27 24.0	114 59.5	ST	56 05 10	1031	122	497	2.45	25.0	1	10
123.0	42.0	27 14.0	115 31.0	ST	56 05 10	1401	136	445	3.06	100.0	1	257
123.0	50.0	26 57.0	115 51.5	ST	56 05 10	1621	139	424	3.29	100.0	7	527
123.0	55.0	26 47.0	116 09.5	ST	56 05 10	1946	145	424	3.41	100.0	11	120
127.0	34.0	26 55.5	114 05.0	ST	56 05 10	0338	71	258	2.76	100.0	18	56
127.0	40.0	26 43.5	114 29.0	ST	56 05 10	0046	140	462	3.02	100.0	14	1
127.0	45.0	26 33.5	114 48.5	ST	56 05 09	2211	146	453	3.22	100.0	67	11
127.0	50.0	26 23.5	115 08.0	ST	56 05 09	1931	143	462	3.09	100.0	23	15
127.0	55.0	26 13.5	115 27.0	ST	56 05 09	1646	139	465	3.00	100.0	5	19

TABLE 1. (cont.)

## CALCOFI Cruise 5605

Line	Station	Lat.(N) deg. min.	Long.(W) deg. min.	Ship Code	Tow Date yr. mo. day	Time (PST)	Tow Depth (m)	Vol. Water Strained (cu. m)	Stand- ard Haul Factor	Percent Sorted	Total Larvae	Total Eggs
127.0	60.0	26 04.5	115 44.5	ST	56 05 09	1431	140	489	2.87	100.0	2	7
130.0	30.0	26 29.0	113 29.0	ST	56 05 08	1943	64	212	3.03	50.0	7	5
130.0	35.0	26 18.5	113 48.0	ST	56 05 08	2206	148	473	3.12	100.0	6	5
130.0	40.0	26 07.0	114 07.0	ST	56 05 09	0031	139	464	2.99	100.0	5	5
130.0	50.0	25 45.5	114 44.0	ST	56 05 09	0446	139	475	2.92	100.0	25	137
130.0	60.0	25 23.0	115 21.0	ST	56 05 09	0911	143	467	3.07	100.0	1	8
133.0	25.0	26 04.5	112 48.0	ST	56 05 08	1528	85	179	4.76	25.0	108	254
133.0	30.0	25 57.5	113 13.0	ST	56 05 08	1236	134	326	4.10	100.0	60	214
133.0	40.0	25 34.0	113 47.0	ST	56 05 08	0826	149	350	4.25	100.0	89	75
133.0	50.0	25 08.5	114 15.0	ST	56 05 08	0356	151	452	3.34	50.0	15	11
137.0	23.0	25 34.0	112 19.0	ST	56 05 07	1113	63	238	2.67	100.0	41	22
137.0	30.0	25 20.5	112 44.0	ST	56 05 07	1406	145	439	3.29	50.0	19	23
137.0	40.0	24 59.0	113 26.0	ST	56 05 07	1831	149	470	3.17	100.0	23	13
137.0	50.0	24 41.0	114 02.0	ST	56 05 07	2236	148	442	3.34	100.0	40	69

TABLE 1. (cont.)

## CALCOFI Cruise 5606

Line	Station	Lat. (N) deg. min.	Long. (W) deg. min.	Ship Code	Tow Date yr. mo. day	Time (PST)	Tow Depth (m)	Vol. Water Strained (cu. m)	Stand- ard Haul Factor	Percent Sorted	Total Larvae	Total Eggs
40.0	38.0	41 47.0	124 28.0	SB	56 06 04	1537	75	498	1.51	100.0	0	22
40.0	40.0	41 43.0	124 38.1	SB	56 06 04	1800	130	491	2.66	25.0	0	1
40.0	45.0	41 32.8	125 00.4	SB	56 06 04	2056	117	460	2.54	25.0	19	3
40.0	50.0	41 23.0	125 23.0	SB	56 06 05	0606	106	536	1.98	12.0	19	0
40.0	60.0	41 01.5	126 12.5	SB	56 06 05	0606	134	449	2.97	25.0	6	0
40.0	70.0	40 38.0	127 02.5	SB	56 06 05	1111	155	292	5.29	12.0	2	3
40.0	80.0	40 22.5	127 36.5	SB	56 06 05	1546	151	425	3.56	50.0	4	3
40.0	90.0	40 04.0	128 19.8	SB	56 06 05	2036	140	410	3.43	12.0	2	2
43.0	42.0	41 04.0	124 20.6	SB	56 06 04	1042	119	410	2.91	100.0	0	4
43.0	50.0	40 48.8	124 56.0	SB	56 06 04	0701	120	422	2.84	12.0	4	1
43.0	60.0	40 31.0	125 46.0	SB	56 06 04	0126	138	508	2.72	25.0	0	1
47.0	50.0	40 13.4	124 33.8	SB	56 06 03	1156	148	446	3.33	50.0	1	3
47.0	55.0	40 03.5	124 54.7	SB	56 06 03	1541	136	470	2.90	25.0	8	2
47.0	60.0	39 54.0	125 18.8	SB	56 06 03	1931	129	504	2.56	50.0	10	6
50.0	47.0	39 46.5	123 53.2	SB	56 06 07	1053	37	222	1.66	50.0	3	7
50.0	50.0	39 39.5	124 06.0	SB	56 06 07	0841	128	356	3.60	100.0	37	18
50.0	55.0	39 30.0	124 32.0	SB	56 06 07	0541	133	451	2.94	50.0	5	2
50.0	60.0	39 19.8	124 53.0	SB	56 06 07	0156	120	544	2.20	50.0	41	10
50.0	70.0	39 00.1	125 37.0	SB	56 06 06	2006	139	463	3.00	25.0	17	0
50.0	80.0	38 42.8	126 21.0	SB	56 06 06	1436	142	463	3.08	100.0	44	17
50.0	90.0	38 26.5	127 06.0	SB	56 06 06	0916	122	463	2.65	50.0	32	34
53.0	52.0	39 03.4	123 51.4	SB	56 06 03	0008	76	232	3.29	75.0	5	9
53.0	55.0	38 58.2	124 07.5	SB	56 06 02	2201	123	489	2.51	25.0	4	1
53.0	65.0	38 35.5	124 51.0	SB	56 06 02	1516	119	435	2.72	12.0	3	2
57.0	51.0	38 30.0	123 21.8	SB	56 06 01	2343	64	261	2.47	25.0	0	0
57.0	55.0	38 22.5	123 39.7	SB	56 06 02	0237	95	340	2.79	100.0	22	9
57.0	65.0	38 00.6	124 21.9	SB	56 06 02	0741	132	398	3.32	50.0	3	9
60.0	55.0	37 47.1	123 16.7	SB	56 06 01	1906	141	392	3.60	100.0	1	0
60.0	57.0	37 42.8	123 24.5	SB	56 06 01	1736	131	513	2.56	100.0	2	1
60.0	60.0	37 35.5	123 36.8	SB	56 06 01	1441	103	557	1.86	100.0	14	4
60.0	70.0	37 16.5	124 18.2	SB	56 06 01	0841	128	442	2.89	100.0	6	7
60.0	80.0	36 57.0	125 04.0	SB	56 06 01	0331	120	505	2.37	25.0	16	7
60.0	90.0	36 35.5	125 45.3	SB	56 05 31	2116	138	405	3.40	12.0	5	1
63.0	52.0	37 18.5	122 37.5	SB	56 05 31	0228	62	310	1.99	100.0	14	64
63.0	55.0	37 12.5	122 49.6	SB	56 05 31	0421	119	563	2.12	50.0	23	15
63.0	65.0	36 53.5	123 32.5	SB	56 05 31	0931	112	491	2.29	100.0	17	16
67.0	50.0	36 49.0	122 04.1	SB	56 05 30	2213	86	280	3.08	50.0	3	60
67.0	55.0	36 43.0	122 21.5	SB	56 05 30	2021	128	468	2.74	50.0	3	82
67.0	65.0	36 19.0	123 09.8	SB	56 05 30	1506	117	536	2.19	100.0	18	3
70.0	52.0	36 08.5	121 50.5	SB	56 05 29	0026	124	532	2.33	50.0	5	0
70.0	55.0	36 01.5	122 03.5	SB	56 05 29	0431	129	529	2.44	50.0	7	39
70.0	60.0	35 50.5	122 23.5	SB	56 05 29	0836	135	427	3.15	100.0	6	128
70.0	70.0	35 33.0	122 57.5	SB	56 05 29	1331	76	610	1.25	50.0	26	37
70.0	80.0	35 13.0	123 47.5	SB	56 05 29	2006	127	493	2.59	50.0	25	16
70.0	90.0	34 53.0	124 29.0	SB	56 05 30	0226	109	513	2.12	100.0	44	52

TABLE 1. (cont.)

CalCOFI Cruise 5606												
Line	Station	Lat.(N) deg. min.	Long.(W) deg. min.	Ship Code	Tow Date yr. mo. day	Time (PST)	Tow Depth (m)	Vol. Water Strained (cu. m)	Stand- ard Haul Factor	Percent Sorted	Total Larvae	Total Eggs
73.0	50.0	35 37.3	121 17.1	SB	56 05 28	1947	80	281	2.85	50.0	0	3
73.0	60.0	35 18.0	122 00.8	SB	56 05 28	1526	138	447	3.08	100.0	5	15
73.0	70.0	34 55.0	122 52.0	SB	56 05 28	0656	121	460	2.63	50.0	0	58
77.0	50.0	35 04.0	120 52.5	SB	56 05 26	1127	108	426	2.54	100.0	1	36
77.0	55.0	34 54.3	121 12.5	SB	56 05 26	1501	151	363	4.17	100.0	21	26
77.0	60.0	34 43.0	121 32.1	SB	56 05 26	1846	140	441	3.19	50.0	12	96
77.0	70.0	34 25.6	122 10.8	SB	56 05 26	2341	141	472	2.98	50.0	19	96
80.0	51.0	34 25.5	120 31.5	PT	56 05 29	1138	78	326	2.39	100.0	16	82
80.0	55.0	34 18.0	120 49.5	PT	56 05 29	1456	115	493	2.33	25.0	3	70
80.0	60.0	34 10.5	121 08.0	PT	56 05 29	1825	111	567	1.96	25.0	7	8
80.0	70.0	33 54.5	121 48.0	PT	56 05 30	0110	115	528	2.17	50.0	25	145
80.0	80.0	33 38.0	122 29.0	PT	56 05 30	0731	116	494	2.35	25.0	5	80
80.0	90.0	33 08.0	123 13.0	PT	56 05 30	1533	136	511	2.66	50.0	48	145
82.0	47.0	34 15.0	119 58.0	PT	56 06 01	0331	123	494	2.49	50.0	35	5
83.0	51.0	33 51.4	120 08.0	PT	56 05 31	2227	106	385	2.76	50.0	71	7
83.0	55.0	33 37.3	120 20.0	PT	56 05 31	1850	135	462	2.92	25.0	5	20
83.0	60.0	33 31.5	120 37.6	PT	56 05 31	1536	120	498	2.42	100.0	10	67
83.0	70.0	33 08.5	121 19.5	PT	56 05 31	1026	132	463	2.84	50.0	24	142
83.0	80.0	32 49.0	122 05.0	PT	56 05 31	0411	121	516	2.35	100.0	25	343
83.0	90.0	32 31.0	122 46.0	PT	56 05 30	2206	135	470	2.87	100.0	25	48
87.0	36.0	33 48.0	118 42.0	PT	56 06 01	1526	109	548	1.99	100.0	214	20
87.0	40.0	33 31.0	119 19.2	PT	56 06 02	1516	125	512	2.44	100.0	29	11
87.0	45.0	33 20.0	119 40.0	PT	56 06 02	1838	131	485	2.69	100.0	15	0
87.0	50.0	33 03.9	120 07.0	PT	56 06 02	2226	129	479	2.95	25.0	15	8
87.0	55.0	33 03.9	120 31.0	PT	56 06 03	0241	137	477	2.70	25.0	94	320
87.0	60.0	32 45.0	120 55.5	PT	56 06 03	0645	134	501	2.87	50.0	17	130
87.0	70.0	32 35.2	121 17.8	PT	56 06 03	1156	136	492	2.67	25.0	7	50
87.0	80.0	32 16.3	121 48.5	PT	56 06 03	1656	140	505	2.76	25.0	4	114
87.0	90.0	32 28.0	117 45.5	PT	56 06 07	1854	27	211	1.27	100.0	49	60
90.0	28.0	33 23.5	117 54.7	PT	56 06 07	2106	130	540	2.40	100.0	203	1005
90.0	30.0	33 10.3	118 23.0	PT	56 06 08	0246	134	471	2.85	25.0	6	42
90.0	37.0	32 58.0	118 57.5	PT	56 06 08	0756	143	305	3.18	100.0	35	52
90.0	45.0	32 51.0	119 20.0	PT	56 06 08	1131	137	467	2.94	25.0	5	3
90.0	55.0	32 34.5	119 37.0	PT	56 06 08	1521	116	513	2.25	50.0	9	5
90.0	60.0	32 24.0	119 57.0	PT	56 06 08	2121	121	492	2.47	100.0	38	1367
90.0	65.0	32 12.2	120 18.0	PT	56 06 09	0146	131	484	2.70	25.0	1	20
90.0	70.0	32 01.3	120 36.2	PT	56 06 09	0721	140	508	2.76	100.0	7	21
90.0	75.0	31 49.2	120 58.7	PT	56 06 09	1031	143	480	3.01	100.0	16	483
90.0	80.0	31 49.2	120 16.5	PT	56 06 04	1516	141	441	3.20	100.0	15	250
90.0	85.0	31 40.0	121 16.5	PT	56 06 04	1431	132	483	2.73	50.0	48	59
90.0	90.0	31 40.0	121 16.5	PT	56 06 04	0001	146	421	3.47	100.0	11	92
90.0	85.0	31 36.2	121 39.1	PT	56 06 23	1326	86	660	1.31	50.0	131	357
90.0	90.0	31 26.2	122 00.0	PT	56 06 23	0941	129	432	2.97	50.0	49	243
93.0	27.0	32 55.5	117 19.0	PT	56 06 11	1206	110	475	2.32	100.0	13	73
											27	418

TABLE 1. (cont.)

## CalCOFI Cruise 5606

Line	Station	Lat. (N) deg. min.	Long. (W) deg. min.	Ship Code	Tow Date yr. mo. day	Time (PST)	Tow Depth (m)	Vol. Water Strained (cu. m)	Stand- ard Haul Factor	Percent Sorted	Total Larvae	Total Eggs
93.0	30.0	32 49.7	117 30.5	PT	56 06 11	0951	141	425	3.32	100.0	142	229
93.0	35.0	32 37.6	117 39.5	PT	56 06 11	0606	125	517	2.43	100.0	141	408
93.0	40.0	32 25.3	118 03.2	PT	56 06 11	0231	131	475	2.76	100.0	359	11
93.0	45.0	32 14.5	118 26.0	PT	56 06 10	2236	138	468	2.94	100.0	355	13
93.0	50.0	32 01.5	118 51.0	PT	56 06 10	1810	138	486	2.85	50.0	4	10
93.0	55.0	31 52.3	119 08.4	PT	56 06 10	1416	109	570	1.92	50.0	7	76
93.0	60.0	31 41.5	119 30.0	PT	56 06 10	1106	135	474	2.86	50.0	15	159
93.0	65.0	31 32.0	119 51.0	PT	56 06 10	0746	176	413	4.27	25.0	8	97
93.0	70.0	31 24.8	120 10.8	PT	56 06 10	0336	125	512	2.45	12.0	5	18
93.0	75.0	31 15.6	120 32.0	PT	56 06 09	2341	121	516	2.33	50.0	49	189
93.0	80.0	31 07.2	120 53.0	PT	56 06 09	2010	148	472	3.12	25.0	5	138
93.0	85.0	31 00.0	121 19.7	PT	56 06 23	1757	110	636	1.73	25.0	34	67
93.0	90.0	30 50.4	121 42.5	PT	56 06 23	2016	111	548	2.03	25.0	6	28
97.0	30.0	32 15.0	117 07.7	PT	56 06 12	1148	110	221	1.74	100.0	72	563
97.0	32.0	32 11.8	117 16.5	PT	56 06 12	1426	125	499	2.51	100.0	13	52
97.0	40.0	31 56.5	117 49.0	PT	56 06 12	1945	111	542	2.04	100.0	27	42
97.0	50.0	31 35.8	118 29.0	PT	56 06 13	0341	144	478	3.02	100.0	34	152
97.0	55.0	31 26.5	118 48.2	PT	56 06 13	0726	130	533	2.44	100.0	9	25
97.0	60.0	31 17.5	119 07.2	PT	56 06 13	1121	111	541	2.05	100.0	344	755
97.0	65.0	31 06.2	119 31.2	PT	56 06 24	1801	80	639	1.25	6.0	4	9
97.0	70.0	30 55.9	119 50.8	PT	56 06 24	1426	98	569	1.72	25.0	61	34
97.0	75.0	30 46.1	120 09.2	PT	56 06 24	1226	111	528	2.10	50.0	71	61
97.0	80.0	30 38.4	120 48.0	PT	56 06 24	0851	104	588	1.76	50.0	15	44
97.0	85.0	30 27.6	121 06.3	PT	56 06 24	0541	79	685	1.16	50.0	4	21
97.0	90.0	30 17.2	121 22.8	PT	56 06 24	0241	96	607	1.59	25.0	20	41
100.0	29.0	31 41.7	116 44.5	PT	56 06 14	2256	107	561	1.91	25.0	7	1
100.0	33.0	31 34.7	116 58.7	PT	56 06 14	2025	127	523	2.42	100.0	42	28
100.0	35.0	31 31.0	117 06.7	PT	56 06 14	1741	128	410	2.71	100.0	14	86
100.0	40.0	31 11.5	117 38.0	PT	56 06 14	1326	127	487	2.62	100.0	2	131
100.0	45.0	31 10.0	117 58.5	PT	56 06 14	0825	125	578	2.16	100.0	2	160
100.0	50.0	31 01.3	118 17.0	PT	56 06 14	0431	134	495	2.70	100.0	4	84
100.0	60.0	30 36.0	118 46.5	PT	56 06 13	2140	145	510	2.85	100.0	14	62
100.0	65.0	30 36.0	119 03.0	PT	56 06 13	1921	122	522	2.34	25.0	23	24
103.0	30.0	31 05.5	116 25.2	PT	56 06 15	0513	54	489	2.47	25.0	1	1246
103.0	35.0	30 55.0	116 45.0	PT	56 06 15	0911	138	489	2.82	100.0	13	8
103.0	40.0	30 44.6	117 05.2	PT	56 06 15	1320	134	506	2.64	100.0	26	80
107.0	32.0	30 25.8	116 11.0	BD	56 06 16	1740	145	396	3.65	100.0	16	162
107.0	35.0	30 20.0	116 23.0	BD	56 06 16	1430	130	459	2.83	50.0	4	1003
107.0	40.0	30 10.5	116 43.5	BD	56 06 16	1031	141	421	3.34	25.0	5	716
107.0	45.0	30 00.0	117 03.3	BD	56 06 16	0746	137	456	3.00	50.0	11	266
107.0	50.0	29 50.5	117 23.7	BD	56 06 16	0451	141	428	3.30	50.0	9	44
107.0	55.0	29 40.0	117 44.0	BD	56 06 16	0146	150	406	3.69	12.0	3	23
107.0	60.0	29 31.0	118 03.0	BD	56 06 15	2146	139	418	3.33	25.0	2	21
107.0	65.0	29 21.5	118 22.0	BD	56 06 15	1836	144	393	3.67	100.0	7	80
107.0	70.0	29 04.8	118 45.0	BD	56 06 15	1339	139	455	3.06	12.0	2	19

TABLE 1. (cont.)

## CalCOFI Cruise 5606

Line	Station	Lat.(N) deg. min.	Long.(W) deg. min.	Ship Code	Tow Date yr. mo. day	Time (PST)	Tow Depth (m)	Vol. Water Strained (cu. m)	Stand- ard Haul Factor	Percent Sorted	Total Larvae	Total Eggs
107.0	75.0	28 55.0	119 02.5	BD	56 06 15	1006	140	451	3.10	50.0	1	99
107.0	80.0	28 51.5	119 22.5	BD	56 06 15	0536	139	433	3.20	50.0	11	72
107.0	85.0	28 41.7	119 41.0	BD	56 06 15	0236	140	442	3.16	25.0	10	47
107.0	90.0	28 31.5	120 01.0	BD	56 06 14	2241	140	441	3.17	12.0	7	34
110.0	33.0	29 50.5	115 52.2	BD	56 06 12	2113	84	264	3.20	50.0	43	42
110.0	35.0	29 46.5	116 00.0	BD	56 06 12	2235	135	448	3.01	12.0	0	3
110.0	40.0	29 36.5	116 19.5	BD	56 06 13	0201	142	419	3.39	12.0	3	15
110.0	45.0	29 27.0	116 39.0	BD	56 06 13	0546	142	381	3.72	25.0	2	79
110.0	50.0	29 16.5	116 59.0	BD	56 06 13	0821	134	424	3.16	25.0	1	13
110.0	55.0	29 07.0	117 17.7	BD	56 06 13	1156	150	376	3.98	12.0	1	4
110.0	60.0	28 57.0	117 37.0	BD	56 06 13	1511	137	449	3.05	12.0	1	19
110.0	65.0	28 47.0	117 58.0	BD	56 06 13	2050	141	419	3.36	100.0	21	65
110.0	70.0	28 36.5	118 18.0	BD	56 06 13	2326	138	440	3.13	25.0	6	15
110.0	75.0	28 26.5	118 37.5	BD	56 06 14	0341	147	421	3.50	12.0	5	5
110.0	80.0	28 16.5	118 57.5	BD	56 06 14	0631	140	437	3.20	50.0	4	74
110.0	85.0	28 06.3	119 16.8	BD	56 06 14	1241	143	417	2.93	100.0	9	161
110.0	90.0	27 56.5	119 36.0	BD	56 06 14	1546	134	456	3.43	100.0	2	133
113.0	30.0	29 22.5	115 17.5	BD	56 06 12	1443	42	239	1.75	100.0	8	280
113.0	35.0	29 12.0	115 39.0	BD	56 06 12	0939	139	441	3.15	6.0	0	0
113.0	40.0	29 01.5	115 57.5	BD	56 06 12	0611	139	438	3.18	50.0	2	6
113.0	45.0	28 51.0	116 19.2	BD	56 06 12	0246	144	316	4.55	50.0	5	40
113.0	50.0	28 42.0	116 37.5	BD	56 06 11	2306	146	371	3.94	25.0	1	29
113.0	55.0	28 32.0	116 57.0	BD	56 06 11	2016	141	402	3.50	12.0	0	15
113.0	60.0	28 22.0	117 16.5	BD	56 06 11	1641	143	398	3.59	50.0	0	50
113.0	65.0	28 12.0	117 35.2	BD	56 06 11	1331	144	410	3.50	6.0	0	3
113.0	70.0	28 02.3	117 58.5	BD	56 06 11	1016	141	443	3.17	12.0	1	6
113.0	75.0	27 46.8	118 28.0	BD	56 06 11	0606	142	425	3.34	12.0	0	4
113.0	80.0	27 36.0	118 47.0	BD	56 06 11	0156	140	416	3.36	12.0	1	4
117.0	26.0	28 56.0	114 40.8	BD	56 06 08	1858	78	154	5.05	50.0	98	92
117.0	30.0	28 48.0	114 56.3	BD	56 06 08	2047	95	187	5.08	50.0	709	495
117.0	35.0	28 38.0	115 16.0	BD	56 06 09	0001	132	282	4.67	25.0	5	84
117.0	40.0	28 28.0	115 35.5	BD	56 06 09	0256	140	422	3.32	50.0	13	84
117.0	45.0	28 18.0	115 55.2	BD	56 06 09	2031	142	445	3.20	6.0	0	0
117.0	50.0	28 08.0	116 15.0	BD	56 06 09	2316	148	442	3.34	25.0	1	1
117.0	55.0	27 57.7	116 34.5	BD	56 06 10	0301	145	437	3.32	25.0	2	40
117.0	60.0	27 47.7	116 54.2	BD	56 06 10	0626	144	420	3.43	50.0	3	31
117.0	65.0	27 39.2	117 14.0	BD	56 06 10	1001	141	419	3.37	25.0	2	13
117.0	70.0	27 29.5	117 30.5	BD	56 06 10	1226	139	432	3.22	25.0	0	1
117.0	75.0	27 17.5	117 51.7	BD	56 06 10	1556	145	413	3.52	12.0	1	6
117.0	80.0	27 08.0	118 11.0	BD	56 06 10	1834	140	437	3.20	6.0	0	47
118.0	39.0	28 18.5	115 24.0	BD	56 06 09	0524	108	319	3.38	12.0	3	3
119.0	33.0	28 19.0	114 53.0	BD	56 06 08	0607	109	198	5.48	6.0	0	520
120.0	25.0	28 23.0	114 14.5	BD	56 06 08	1203	50	91	5.46	50.0	142	1041
120.0	30.0	28 13.0	114 34.0	BD	56 06 08	0837	90	148	6.05	50.0	64	1841
120.0	40.0	27 56.5	115 14.0	BD	56 06 08	0254	27	131	2.09	25.0	463	32



TABLE 1. (cont.)

## CALCOFI Cruise 5606

Line	Station	Lat. (N) deg. min.	Long. (W) deg. min.	Ship Code	Tow Date yr. mo. day	Time (PST)	Tow Depth (m)	Vol. Water Strained (cu. m)	Stand- ard Haul Factor	Percent Sorted	Total Larvae	Total Eggs
120.0	45.0	27 40.7	115 29.5	BD	56 06 07	2006	140	396	3.54	100.0	134	57
120.0	50.0	27 33.0	115 52.0	BD	56 06 07	1541	146	391	3.73	100.0	10	59
120.0	55.0	27 32.7	116 08.5	BD	56 06 07	1226	143	436	3.27	50.0	2	112
120.0	60.0	27 22.3	116 26.0	BD	56 06 07	0921	141	415	3.38	50.0	9	101
120.0	70.0	26 55.7	117 10.0	BD	56 06 07	0301	145	404	3.59	12.0	3	13
120.0	80.0	26 32.5	117 48.5	BD	56 06 06	2036	134	437	3.08	12.0	0	47
123.0	37.0	27 24.0	114 39.7	BD	56 06 05	0906	71	234	3.02	25.0	2	10
123.0	40.0	27 18.0	114 51.5	BD	56 06 05	2006	137	376	3.63	100.0	35	72
123.0	42.0	27 14.0	114 59.2	BD	56 06 05	2131	136	332	4.09	50.0	55	19
123.0	50.0	26 56.7	115 30.7	BD	56 06 06	0246	139	374	3.72	100.0	13	34
123.0	55.0	26 48.2	115 49.7	BD	56 06 06	0616	139	418	3.33	100.0	20	478
123.0	60.0	26 38.5	116 09.0	BD	56 06 06	0940	134	434	3.08	100.0	18	230
127.0	34.0	26 55.3	114 06.0	BD	56 06 05	0348	67	202	3.31	50.0	3	239
127.0	40.0	26 42.5	114 31.0	BD	56 06 04	2335	138	377	3.67	50.0	3	2152
127.0	45.0	26 33.5	114 48.7	BD	56 06 04	2026	133	348	3.81	100.0	3	45
127.0	50.0	26 23.5	115 08.0	BD	56 06 04	1714	139	348	3.99	100.0	5	76
127.0	55.0	26 14.0	115 27.0	BD	56 06 04	1331	136	344	3.95	12.0	6	9
127.0	60.0	26 03.0	115 46.5	BD	56 06 04	0926	142	374	3.79	25.0	10	50
130.0	30.0	26 28.0	113 25.0	BD	56 06 03	0823	69	225	3.57	50.0	1	163
130.0	35.0	26 19.0	113 48.5	BD	56 06 03	1102	140	393	3.57	100.0	18	33
130.0	40.0	26 09.0	114 07.5	BD	56 06 03	1431	139	387	3.60	100.0	5	38
130.0	50.0	25 49.0	114 46.0	BD	56 06 03	2056	140	387	3.63	100.0	9	67
130.0	60.0	25 29.0	115 24.0	BD	56 06 04	0231	131	384	3.42	100.0	17	33
133.0	25.0	26 04.0	112 46.5	BD	56 06 03	0318	61	171	3.57	12.0	9	161
133.0	30.0	25 54.5	113 07.5	BD	56 06 02	2336	138	463	2.99	50.0	35	873
133.0	40.0	25 30.0	113 46.0	BD	56 06 02	1726	138	721	2.89	100.0	54	173
133.0	50.0	25 14.5	114 24.0	BD	56 06 02	1141	145	423	3.42	100.0	50	41
137.0	23.0	25 34.0	112 18.7	BD	56 06 01	0901	70	240	2.93	12.0	5	0
137.0	30.0	25 20.0	112 45.5	BD	56 06 01	1216	113	441	2.55	50.0	68	692
137.0	40.0	25 00.0	113 23.5	BD	56 06 01	2128	140	312	4.50	100.0	113	247
137.0	50.0	24 40.0	114 01.5	BD	56 06 02	0604	141	411	3.43	100.0	0	38

TABLE I. (cont.)

## CALCOFI Cruise 5607

Line	Station	Lat. (N) deg. min.	Long. (W) deg. min.	Ship Code	Tow Date yr. mo. day	Time (PST)	Tow Depth (m)	Vol. Water Strained (cu. m)	Stand- ard Haul Factor	Percent Sorted	Total Larvae	Total Eggs
60.0	55.0	37 54.0	123 15.0	OR	56 07 19	2213	67	182	3.70	50.0	3	2
60.0	60.0	37 45.0	123 37.0	OR	56 07 22	1526	129	476	2.71	50.0	14	0
60.0	70.0	37 25.0	124 20.5	OR	56 07 22	2011	128	509	2.52	25.0	11	4
60.0	80.0	37 05.0	125 04.0	OR	56 07 23	0101	130	498	2.61	12.0	1	24
60.0	90.0	36 45.0	125 45.5	OR	56 07 23	0551	133	452	2.94	25.0	4	3
63.0	52.0	37 19.0	122 36.3	OR	56 07 19	1208	56	175	3.18	25.0	0	187
63.0	55.0	37 13.3	122 50.0	OR	56 07 19	1351	136	294	4.63	25.0	0	25
63.0	60.0	37 03.7	123 13.0	OR	56 07 19	1636	140	477	2.92	25.0	8	4
63.0	70.0	36 43.0	123 54.6	OR	56 07 23	1916	129	476	2.70	25.0	0	4
63.0	80.0	36 26.2	124 40.0	OR	56 07 23	1431	146	437	3.33	50.0	27	189
63.0	90.0	36 12.0	125 20.0	OR	56 07 23	1021	138	470	2.94	50.0	13	104
67.0	50.0	36 49.0	122 04.5	OR	56 07 19	0718	64	278	2.29	100.0	48	13
67.0	55.0	36 47.0	122 28.5	OR	56 07 19	0406	142	263	5.40	50.0	22	57
67.0	60.0	36 34.0	122 50.0	OR	56 07 19	0121	135	394	3.43	50.0	56	59
67.0	70.0	36 09.5	123 30.0	OR	56 07 18	2021	139	420	3.31	50.0	12	31
67.0	80.0	35 45.0	124 10.0	OR	56 07 18	1421	140	451	3.11	25.0	5	181
67.0	90.0	35 21.0	124 54.5	OR	56 07 18	0901	139	447	3.11	25.0	3	7
70.0	52.0	36 10.5	121 51.0	OR	56 07 17	0711	116	520	2.23	100.0	0	28
70.0	55.0	36 03.3	122 03.0	OR	56 07 17	0906	120	404	2.96	25.0	4	16
70.0	60.0	35 54.0	122 25.0	OR	56 07 17	1201	129	410	3.14	50.0	20	21
70.0	70.0	35 32.5	123 07.0	OR	56 07 17	1656	123	476	2.59	25.0	9	5
70.0	80.0	35 11.5	123 48.5	OR	56 07 17	2156	127	473	2.68	50.0	19	153
70.0	90.0	34 49.5	124 30.0	OR	56 07 18	0301	140	450	3.12	100.0	22	58
73.0	50.0	35 38.4	121 17.5	OR	56 07 16	1724	41	157	2.61	100.0	4	133
73.0	60.0	35 14.1	122 06.0	OR	56 07 16	1051	136	456	2.98	50.0	14	23
73.0	70.0	34 54.5	122 49.0	OR	56 07 16	0526	142	380	3.73	50.0	13	12
73.0	80.0	34 35.5	123 28.5	OR	56 07 16	0036	137	385	3.55	50.0	25	88
73.0	90.0	34 17.0	124 08.5	OR	56 07 15	1936	139	405	3.42	50.0	15	100
77.0	50.0	35 03.4	120 53.5	OR	56 07 14	1831	132	436	3.04	100.0	110	8
77.0	55.0	34 54.0	121 13.0	OR	56 07 14	2106	136	483	2.81	50.0	60	1
77.0	60.0	34 45.0	121 34.5	OR	56 07 15	0001	135	438	3.08	50.0	42	6
77.0	70.0	34 26.5	122 18.0	OR	56 07 15	0451	137	449	3.05	50.0	23	6
77.0	80.0	34 08.0	123 00.5	OR	56 07 15	0941	135	400	3.38	50.0	20	36
77.0	90.0	33 46.0	123 41.5	OR	56 07 15	1451	139	402	3.44	25.0	12	23
80.0	51.0	34 26.5	120 33.0	OR	56 07 14	1343	62	244	2.53	100.0	7	75
80.0	55.0	34 21.0	120 46.0	OR	56 07 14	1141	139	463	3.00	100.0	80	8
80.0	60.0	34 10.5	121 07.0	OR	56 07 14	0906	130	501	2.59	50.0	16	29
80.0	70.0	33 49.7	121 48.5	OR	56 07 14	0416	140	481	2.91	50.0	10	35
80.0	80.0	33 30.2	122 30.0	OR	56 07 13	2311	139	478	2.91	50.0	15	24
80.0	90.0	33 09.0	123 13.0	OR	56 07 13	1736	141	478	2.94	25.0	0	7
82.0	47.0	34 15.0	119 58.0	OR	56 07 12	1226	124	529	2.34	25.0	43	23
83.0	40.0	34 14.0	119 22.0	OR	56 07 12	0730	13	97	1.38	100.0	3	41
83.0	43.0	34 07.5	119 31.7	OR	56 07 12	0911	129	508	2.54	50.0	67	79
83.0	48.0	33 58.5	119 55.0	OR	56 07 12	1448	54	206	2.61	100.0	50	215
83.0	51.0	33 51.1	120 07.5	OR	56 07 12	1701	135	460	2.93	50.0	17	30

TABLE 1. (cont.)

## CALCOFI Cruise 5607

Line	Station	Lat. (N) deg. min.	Long. (W) deg. min.	Ship Code	Tow Date yr. mo. day	Time (PST)	Tow Depth (m)	Vol. Water Strained (cu. m)	Stand- ard Haul Factor	Percent Sorted	Total Larvae	Total Eggs
83.0	55.0	33 40.5	120 28.2	OR	56 07 12	1941	135	492	2.74	25.0	27	3
83.0	60.0	33 34.0	120 45.0	OR	56 07 12	2211	134	473	2.83	50.0	183	26
83.0	70.0	33 14.0	121 27.0	OR	56 07 13	0306	142	448	3.17	25.0	22	12
83.0	80.0	32 53.2	122 09.0	OR	56 07 13	0806	133	460	2.77	25.0	9	26
83.0	90.0	32 35.2	122 47.2	OR	56 07 13	1231	140	460	3.04	12.0	2	11
87.0	36.0	33 47.7	118 41.0	OR	56 07 11	1626	41	107	2.61	100.0	52	36
87.0	40.0	33 38.0	118 57.0	OR	56 07 11	1856	138	340	3.06	50.0	0	0
87.0	45.0	33 30.0	119 19.0	OR	56 07 11	2136	135	440	4.08	12.0	14	5
87.0	50.0	33 20.0	119 39.5	OR	56 07 12	0044	133	510	3.86	25.0	5	12
87.0	55.0	33 04.5	119 58.2	OR	56 07 09	1741	115	507	2.26	100.0	22	14
87.0	60.0	32 55.5	120 16.5	OR	56 07 09	1506	134	451	3.97	100.0	21	13
87.0	65.0	32 44.0	120 36.0	OR	56 07 09	1226	139	435	3.19	100.0	16	28
87.0	70.0	32 36.0	120 52.0	OR	56 07 09	0956	136	448	3.05	100.0	4	35
87.0	75.0	32 26.5	121 14.0	OR	56 07 09	0651	139	456	3.04	100.0	33	78
87.0	80.0	32 17.0	121 36.0	OR	56 07 09	0341	137	465	2.94	25.0	1	2
87.0	85.0	32 06.5	121 58.0	OR	56 07 09	0026	135	455	2.96	25.0	11	81
87.0	90.0	31 57.0	122 19.0	OR	56 07 08	2101	135	476	2.84	25.0	3	3
90.0	28.0	33 28.5	117 47.0	OR	56 07 07	0251	137	490	2.80	25.0	31	102
90.0	30.0	33 24.5	117 55.0	OR	56 07 07	0426	134	459	2.93	25.0	8	8
90.0	37.0	33 11.0	118 23.5	OR	56 07 07	0746	140	445	3.15	25.0	35	12
90.0	45.0	32 55.5	118 56.0	OR	56 07 07	1156	145	429	3.39	100.0	8	3
90.0	50.0	32 45.5	119 15.0	OR	56 07 07	1501	134	445	3.02	100.0	2	0
90.0	55.0	32 35.5	119 33.5	OR	56 07 07	1756	138	530	2.61	100.0	7	5
90.0	60.0	32 25.5	119 52.0	OR	56 07 07	2041	134	453	2.97	100.0	2	1
90.0	65.0	32 16.0	120 11.5	OR	56 07 08	0001	136	468	2.91	25.0	4	3
90.0	70.0	32 06.5	120 30.0	OR	56 07 08	0246	139	446	3.11	100.0	7	29
90.0	75.0	31 56.0	120 49.0	OR	56 07 08	0536	138	454	3.04	50.0	4	21
90.0	80.0	31 45.5	121 09.0	OR	56 07 08	0821	138	449	3.07	50.0	2	767
90.0	85.0	31 32.0	121 35.0	OR	56 07 08	1141	140	447	3.14	100.0	5	45
90.0	90.0	31 25.0	121 59.0	OR	56 07 08	1441	140	485	2.88	50.0	2	13
93.0	27.0	32 55.9	117 20.4	PT	56 07 06	2046	129	551	2.35	100.0	165	114
93.0	30.0	32 50.7	117 31.6	PT	56 07 06	2305	133	569	2.34	100.0	80	185
93.0	35.0	32 40.0	117 54.5	PT	56 07 07	0226	126	564	2.23	100.0	28	12
93.0	40.0	32 31.5	118 12.9	PT	56 07 07	0554	142	533	2.66	12.0	2	6
93.0	45.0	32 23.0	118 33.0	PT	56 07 07	1016	133	489	2.73	25.0	1	8
93.0	50.0	32 14.2	118 52.8	PT	56 07 07	1316	147	445	3.31	25.0	1	2
93.0	55.0	32 06.0	119 11.9	PT	56 07 07	1625	141	546	2.59	25.0	0	0
93.0	60.0	31 57.2	119 30.8	PT	56 07 07	2005	123	585	2.09	12.0	0	8
93.0	65.0	31 46.2	119 50.0	PT	56 07 07	2336	107	624	1.71	12.0	3	6
93.0	70.0	31 35.0	120 10.0	PT	56 07 08	0326	142	416	3.40	25.0	16	33
93.0	75.0	31 24.3	120 28.8	PT	56 07 08	0816	140	548	2.56	12.0	1	18
93.0	80.0	31 10.5	120 52.0	PT	56 07 08	1246	137	484	2.82	6.0	0	6
93.0	85.0	31 01.8	121 12.0	PT	56 07 08	1546	136	488	2.79	25.0	2	41
93.0	90.0	30 50.0	121 33.7	PT	56 07 08	1916	146	463	3.15	25.0	0	9
97.0	30.0	32 15.5	117 08.4	PT	56 07 11	1628	135	460	2.39	25.0	53	193

TABLE 1. (cont.)

CALCOFI Cruise 5607												
Line	Station	Lat. (N) deg. min.	Long. (W) deg. min.	Ship Code	Tow Date yr. mo. day	Time (PST)	Tow Depth (m)	Vol. Water Strained (cu. m)	Stand- ard Haul Factor	Percent Sorted	Total Larvae	Total Eggs
97.0	32.0	32 11.5	117 16.3	PT	56 07 11	1816	50	211	2.94	12.0	0	0
97.0	40.0	32 03.1	117 52.8	PT	56 07 10	0926	120	498	2.41	100.0	56	7
97.0	45.0	31 51.9	118 12.0	PT	56 07 10	0626	140	481	2.91	100.0	6	14
97.0	50.0	31 40.4	118 32.1	PT	56 07 10	0316	133	503	2.65	25.0	2	7
97.0	55.0	31 28.8	118 51.1	PT	56 07 10	0006	138	480	2.87	12.0	9	5
97.0	60.0	31 17.0	119 11.0	PT	56 07 09	2036	124	508	2.44	6.0	4	9
97.0	65.0	31 05.8	119 31.0	PT	56 07 09	1720	125	531	2.36	12.0	2	30
97.0	70.0	30 54.0	119 50.3	PT	56 07 09	1356	112	541	2.07	12.0	7	12
97.0	75.0	30 43.0	120 11.0	PT	56 07 09	1036	126	589	2.14	25.0	4	22
97.0	80.0	30 34.0	120 30.4	PT	56 07 09	0716	145	456	3.17	12.0	2	4
97.0	85.0	30 24.1	120 50.9	PT	56 07 09	0355	150	485	3.08	25.0	4	21
97.0	90.0	30 15.0	121 11.0	PT	56 07 09	0056	144	489	2.93	25.0	12	11
100.0	29.0	31 42.7	116 43.0	PT	56 07 11	2346	126	541	2.34	50.0	22	4
100.0	30.0	31 42.7	116 46.7	PT	56 07 12	0026	118	550	2.15	25.0	153	6
100.0	35.0	31 33.5	117 03.9	PT	56 07 12	0356	137	493	2.78	12.0	0	0
100.0	40.0	31 25.2	117 20.9	PT	56 07 12	0716	137	513	2.66	25.0	4	4
100.0	45.0	31 17.4	117 37.4	PT	56 07 12	1136	124	528	2.35	12.0	0	10
100.0	50.0	31 03.9	118 07.7	PT	56 07 12	1436	116	524	2.21	25.0	4	59
100.0	55.0	30 53.3	118 31.0	PT	56 07 12	1836	135	485	2.79	12.0	5	11
100.0	60.0	30 42.5	118 53.9	PT	56 07 12	2135	117	548	2.13	25.0	7	40
100.0	65.0	30 32.3	119 17.2	PT	56 07 13	0116	122	515	2.37	6.0	2	1
100.0	70.0	30 22.9	119 37.4	PT	56 07 13	0426	141	437	3.22	12.0	10	10
100.0	75.0	30 13.4	119 59.2	PT	56 07 13	0755	126	586	2.15	25.0	4	57
100.0	80.0	30 04.0	120 20.9	PT	56 07 13	1031	119	525	2.26	50.0	7	27
100.0	85.0	29 53.2	120 36.8	PT	56 07 13	1311	114	541	2.11	25.0	1	4
100.0	90.0	29 40.8	120 47.0	PT	56 07 13	1556	138	496	2.79	25.0	1	7
103.0	30.0	31 06.5	116 24.0	PT	56 07 15	1114	22	195	1.12	25.0	8	232
103.0	35.0	30 52.8	116 52.0	PT	56 07 15	0706	136	473	2.88	100.0	6	3
103.0	40.0	30 42.7	117 12.0	PT	56 07 15	0316	117	506	2.31	25.0	17	7
103.0	45.0	30 33.7	117 29.7	PT	56 07 15	0021	133	502	2.64	12.0	4	3
103.0	50.0	30 24.1	117 48.1	PT	56 07 14	2126	132	471	2.81	25.0	1	10
103.0	55.0	30 15.6	118 06.0	PT	56 07 14	1826	141	423	3.34	50.0	3	24
103.0	60.0	30 08.5	118 19.0	PT	56 07 14	1541	127	522	2.43	25.0	0	5
103.0	65.0	29 51.8	118 39.1	PT	56 07 14	1226	120	549	2.19	12.0	1	14
103.0	70.0	29 44.8	118 51.1	PT	56 07 14	1016	131	532	2.46	12.0	0	5
103.0	75.0	29 35.0	119 13.2	PT	56 07 14	0726	139	474	2.93	12.0	3	61
103.0	80.0	29 26.1	119 35.4	PT	56 07 14	0406	138	483	2.86	25.0	5	12
103.0	85.0	29 17.0	119 57.3	PT	56 07 14	0046	121	548	2.21	25.0	15	14
103.0	90.0	29 08.0	120 19.6	PT	56 07 13	2136	123	510	2.41	6.0	1	3
107.0	32.0	30 26.5	116 11.2	PT	56 07 15	1641	103	540	1.91	25.0	37	380
107.0	35.0	30 19.3	116 25.2	PT	56 07 15	1856	122	518	2.36	12.0	2	2
107.0	40.0	30 08.1	116 45.4	PT	56 07 15	2216	131	505	2.59	12.0	6	10
107.0	45.0	29 56.5	117 06.8	PT	56 07 16	0146	126	511	2.46	6.0	3	1
107.0	50.0	29 45.3	117 27.0	PT	56 07 16	0506	126	492	2.57	50.0	6	57
107.0	55.0	29 34.3	117 47.1	PT	56 07 16	0831	120	534	2.24	25.0	4	25

TABLE 1. (cont.)

## CALCOFI Cruise 5607

Line	Station	Lat. (N) deg. min.	Long. (W) deg. min.	Ship Code	Tow Date yr. mo. day	Time (PST)	Tow Depth (m)	Vol. Water Strained (cu. m)	Stand- ard Haul Factor	Percent Sorted	Total Larvae	Total Eggs
107.0	60.0	29 17.0	118 09.6	PT	56 07 16	1206	109	533	2.05	12.0	2	39
107.0	70.0	29 11.0	118 43.0	PT	56 07 16	2205	103	592	1.73	25.0	14	18
107.0	80.0	28 51.0	119 23.0	PT	56 07 17	0411	129	485	2.66	100.0	39	125
107.0	90.0	28 32.5	120 01.0	PT	56 07 17	1001	133	532	2.51	100.0	9	136
110.0	33.0	29 49.5	115 52.2	PT	56 07 19	1123	117	268	4.37	100.0	101	271
110.0	35.0	29 44.3	115 52.7	PT	56 07 18	2336	134	309	4.32	50.0	64	253
110.0	40.0	29 37.7	116 07.2	PT	56 07 18	2131	119	526	2.26	100.0	9	8
110.0	45.0	29 28.2	116 32.0	PT	56 07 18	1816	137	446	3.07	12.0	13	7
110.0	50.0	29 17.2	116 57.3	PT	56 07 18	1516	114	550	2.07	6.0	1	0
110.0	55.0	29 08.7	117 23.5	PT	56 07 18	1136	126	500	2.53	50.0	14	14
110.0	60.0	28 59.0	117 40.0	PT	56 07 18	0836	124	526	2.35	50.0	8	43
110.0	70.0	28 38.2	118 19.3	PT	56 07 18	0306	124	522	2.37	100.0	49	210
110.0	80.0	28 17.7	118 57.3	PT	56 07 17	2106	118	551	2.15	25.0	35	78
110.0	90.0	27 58.0	119 37.7	PT	56 07 17	1536	111	561	1.98	100.0	143	130
113.0	30.0	29 22.5	115 17.5	BD	56 07 17	0359	37	321	4.51	50.0	23	195
113.0	40.0	29 02.0	115 39.0	BD	56 07 16	2211	150	313	4.80	100.0	83	26
113.0	45.0	28 52.0	116 18.0	BD	56 07 16	1921	142	352	4.03	6.0	1	1
113.0	50.0	28 42.0	116 37.5	BD	56 07 16	1620	129	368	3.77	25.0	2	5
113.0	55.0	28 32.0	116 57.0	BD	56 07 16	1300	129	399	3.24	25.0	10	30
113.0	60.0	28 23.0	117 30.0	BD	56 07 16	0856	137	438	3.13	25.0	4	21
113.0	70.0	28 02.3	117 58.0	BD	56 07 16	0336	147	409	3.60	50.0	19	96
113.0	80.0	27 41.8	118 34.8	BD	56 07 15	2241	149	408	3.65	25.0	4	138
117.0	26.0	28 55.8	114 40.7	BD	56 07 14	1010	72	208	3.44	50.0	155	204
117.0	30.0	28 48.0	114 56.3	BD	56 07 14	1217	91	224	4.06	50.0	194	467
117.0	35.0	28 38.0	115 16.0	BD	56 07 14	1536	143	430	3.46	25.0	3	0
117.0	40.0	28 28.0	115 35.5	BD	56 07 14	2040	141	408	3.46	25.0	2	2
117.0	45.0	28 18.0	115 55.2	BD	56 07 14	2315	139	412	3.36	25.0	3	6
117.0	50.0	28 08.0	116 15.0	BD	56 07 15	0204	141	412	3.43	25.0	1	18
117.0	55.0	27 57.7	116 34.5	BD	56 07 15	0456	139	392	3.56	25.0	0	18
117.0	60.0	27 47.5	116 54.0	BD	56 07 15	0711	137	416	3.29	12.0	0	18
117.0	70.0	27 27.5	117 32.5	BD	56 07 15	1216	141	413	3.42	12.0	2	3
117.0	80.0	27 07.5	118 11.5	BD	56 07 15	1726	138	438	3.14	12.0	2	31
118.0	39.0	28 18.5	115 24.0	BD	56 07 14	1831	141	427	3.31	12.0	22	30
119.0	33.0	28 19.0	114 53.0	BD	56 07 14	0022	95	281	3.39	12.0	57	84
120.0	25.0	28 23.0	114 14.5	BD	56 07 14	0526	39	138	2.83	12.0	189	446
120.0	30.0	27 56.5	114 34.0	BD	56 07 14	0251	70	235	2.98	12.0	98	652
120.0	40.0	27 43.0	115 14.0	BD	56 07 13	2044	31	146	2.13	25.0	295	187
120.0	45.0	27 33.0	115 33.0	BD	56 07 13	1726	136	444	3.07	25.0	2	18
120.0	50.0	27 33.0	115 52.5	BD	56 07 13	1452	141	448	3.14	100.0	43	144
120.0	55.0	27 23.0	116 12.0	BD	56 07 13	1146	139	491	2.84	100.0	91	82
120.0	60.0	27 13.0	116 28.0	BD	56 07 13	0946	140	458	3.06	100.0	13	138
120.0	70.0	26 52.5	117 10.0	BD	56 07 13	0456	141	453	3.12	100.0	39	280
120.0	80.0	26 32.5	117 48.5	BD	56 07 12	2331	121	515	2.36	50.0	45	226
123.0	37.0	27 24.0	114 39.7	BD	56 07 12	0053	69	243	2.83	12.0	20	13

TABLE 1. (cont.)

## CALCOFI Cruise 5607

Line	Station	Lat. (N) deg. min.	Long. (W) deg. min.	Ship Code	Tow Date yr. mo. day	Time (PST)	Tow Depth (m)	Vol. Water Strained (cu. m)	Stand- ard Haul Factor	Percent Sorted	Total Larvae	Total Eggs
123.0	42.0	27 14.0	114 59.7	BD	56 07 12	0401	141	444	3.18	12.0	0	9
123.0	50.0	26 58.0	115 30.5	BD	56 07 12	0750	129	501	2.58	50.0	2	59
123.0	55.0	26 48.2	115 49.7	BD	56 07 12	1040	137	490	2.82	100.0	16	618
123.0	60.0	26 38.5	116 09.0	BD	56 07 12	1300	141	451	3.13	100.0	11	95
127.0	40.0	26 43.5	114 29.5	BD	56 07 11	1631	145	435	3.33	100.0	39	67
127.0	45.0	26 33.5	114 48.7	BD	56 07 11	1333	141	463	3.06	25.0	9	22
127.0	50.0	26 23.5	115 08.0	BD	56 07 11	1056	116	257	2.21	100.0	45	96
127.0	55.0	26 13.5	115 27.2	BD	56 07 11	0836	117	529	2.21	100.0	25	285
127.0	60.0	26 03.5	115 46.5	BD	56 07 11	0541	141	465	3.03	50.0	65	311
130.0	30.0	26 29.0	113 29.0	BD	56 07 10	0926	61	284	2.16	12.0	0	6
130.0	35.0	26 19.0	113 48.5	BD	56 07 10	1200	130	515	2.52	25.0	5	48
130.0	40.0	26 09.0	114 07.5	BD	56 07 10	1456	142	490	2.89	100.0	24	89
130.0	50.0	25 49.0	114 46.0	BD	56 07 10	2001	139	442	3.14	100.0	85	109
130.0	60.0	25 29.0	115 24.0	BD	56 07 11	0101	136	511	2.67	100.0	200	25
133.0	25.0	26 04.5	112 48.0	BD	56 07 10	0410	0	206	2.29	6.0	18	0
133.0	30.0	25 54.5	113 07.5	BD	56 07 10	0116	132	527	2.50	100.0	156	53
133.0	40.0	25 34.5	113 45.5	BD	56 07 09	2016	192	459	3.14	25.0	34	1
133.0	50.0	25 14.2	114 24.0	BD	56 07 09	1441	137	462	2.96	100.0	40	173
137.0	23.0	25 34.2	112 18.7	BD	56 07 08	2003	77	269	2.86	12.0	2	1
137.0	30.0	25 20.0	112 45.5	BD	56 07 08	2335	136	533	2.55	25.0	38	5
137.0	40.0	25 00.0	113 23.5	BD	56 07 09	0431	143	445	3.21	100.0	42	11
137.0	50.0	24 40.0	114 01.5	BD	56 07 09	0946	144	493	2.93	100.0	5	31

TABLE 1. (cont.)

## CALCOFI Cruise 5608

Line	Station	Lat. (N) deg. min.	Long. (W) deg. min.	Ship Code	Tow Date yr. mo. day	Time (PST)	Tow Depth (m)	Vol. Water Strained (cu. m)	Stand- ard Haul Factor	Percent Sorted	Total Larvae	Total Eggs
110.0	33.0	29 50.5	115 52.7	BD	56 08 17	2032	75	277	2.72	50.0	136	45
110.0	35.0	29 46.5	116 00.0	BD	56 08 17	2146	141	569	2.49	50.0	40	5
110.0	40.0	29 36.5	116 19.5	BD	56 08 18	0001	128	598	2.15	50.0	85	1
113.0	30.0	29 22.5	115 17.5	BD	56 08 17	1439	36	121	2.95	100.0	196	153
113.0	35.0	29 13.2	115 40.0	BD	56 08 17	1131	138	433	3.18	100.0	18	3
113.0	40.0	29 02.0	115 58.5	BD	56 08 17	0856	132	422	3.13	100.0	9	3
115.0	27.0	29 11.0	114 55.0	BD	56 08 16	2233	64	162	3.97	50.0	411	124
115.0	30.0	29 05.0	115 08.0	BD	56 08 17	2358	73	204	3.59	12.0	125	1327
115.0	35.0	28 55.0	115 27.5	BD	56 08 17	0301	138	365	3.79	100.0	148	160
115.0	40.0	28 45.0	115 47.0	BD	56 08 17	0601	137	388	3.52	50.0	33	5
117.0	26.0	28 56.0	114 41.0	BD	56 08 16	2010	36	96	3.71	50.0	247	106
117.0	30.0	28 48.0	114 56.5	BD	56 08 16	1811	108	277	3.90	25.0	140	27
117.0	35.0	28 38.0	115 16.0	BD	56 08 16	1521	128	452	2.84	100.0	10	22
117.0	40.0	28 28.0	115 35.5	BD	56 08 16	1208	127	419	3.02	100.0	54	22
118.5	25.0	28 40.5	114 25.5	BD	56 08 16	0213	58	247	2.36	6.0	29	212
118.5	30.0	28 30.5	114 45.5	BD	56 08 16	0507	88	280	3.15	100.0	205	436
118.5	35.0	28 20.5	115 05.0	BD	56 08 16	0822	91	271	3.34	25.0	280	248
120.0	25.0	28 23.0	114 14.5	BD	56 08 15	2255	31	117	2.64	25.0	143	804
120.0	30.0	28 13.0	114 34.0	BD	56 08 15	2013	100	276	3.61	12.0	93	119
120.0	35.0	28 03.0	114 54.0	BD	56 08 15	1701	102	327	3.12	100.0	108	473
120.0	40.0	27 56.5	115 14.0	BD	56 08 15	1434	31	139	2.24	100.0	252	394
123.0	37.0	27 24.0	114 39.7	BD	56 08 15	1133	141	416	3.40	100.0	28	26
123.0	42.0	27 14.0	114 59.7	BD	56 08 15	0053	60	213	2.84	25.0	69	3
123.0	45.0	27 08.0	115 11.2	BD	56 08 15	0506	132	443	2.93	50.0	29	32
127.0	34.0	26 55.3	114 06.0	BD	56 08 14	1832	75	434	3.04	100.0	44	33
127.0	40.0	26 43.0	114 29.0	BD	56 08 14	1428	142	319	2.34	25.0	418	4
127.0	45.0	26 34.0	114 48.0	BD	56 08 14	1146	141	441	3.21	100.0	23	4
130.0	30.0	26 29.0	113 29.0	BD	56 08 13	2258	69	193	3.35	50.0	26	6
130.0	35.0	26 19.0	113 48.5	BD	56 08 14	0116	144	401	3.56	100.0	260	72
130.0	40.0	26 09.0	114 07.5	BD	56 08 14	0356	135	442	3.58	25.0	71	69
133.0	25.0	26 59.0	114 25.7	BD	56 08 14	0631	143	411	3.06	50.0	230	14
133.0	30.0	26 04.5	112 48.0	BD	56 08 13	1633	74	195	3.47	100.0	33	22
133.0	35.0	25 54.5	113 07.5	BD	56 08 13	1350	108	358	3.78	100.0	13	517
137.0	23.0	25 34.2	112 18.7	BD	56 08 12	1948	60	226	2.63	25.0	3	38
137.0	30.0	25 20.0	112 45.5	BD	56 08 12	2341	148	402	3.68	25.0	250	74

TABLE 1. (cont.)

CalCOFI Cruise 5609												
Line	Station	Lat. (N) deg. min.	Long. (W) deg. min.	Ship Code	Tow Date yr. mo. day	Time (PST)	Tow Depth (m)	Vol. Water Strained (cu. m)	Stand- ard Haul Factor	Percent Sorted	Total Larvae	Total Eggs
110.0	33.0	29 50.5	115 52.2	BD	56 09 16	1647	85	326	2.62	100.0	26	1128
110.0	35.0	29 46.5	116 00.0	BD	56 09 16	1814	133	492	2.70	50.0	36	6
110.0	40.0	29 36.5	116 19.5	BD	56 09 16	2151	139	454	3.06	100.0	161	0
113.0	30.0	29 22.5	115 17.5	BD	56 09 16	1138	55	225	2.44	100.0	75	579
113.0	35.0	29 12.0	115 39.0	BD	56 09 16	0831	140	446	3.13	100.0	96	4
113.0	40.0	29 02.0	115 59.0	BD	56 09 16	0541	125	492	2.53	100.0	50	5
115.0	27.0	29 11.0	114 55.0	BD	56 09 15	1943	66	163	4.06	100.0	39	438
115.0	30.0	29 05.0	115 08.0	BD	56 09 15	2118	79	201	3.94	50.0	31	110
115.0	35.0	28 55.0	115 27.5	BD	56 09 16	0006	136	485	2.80	50.0	61	8
115.0	40.0	28 45.0	115 47.0	BD	56 09 16	0246	134	480	2.78	50.0	59	6
117.0	26.0	28 56.0	114 41.0	BD	56 09 15	1648	48	280	1.72	100.0	29	414
117.0	30.0	28 48.0	114 56.5	BD	56 09 15	1447	84	286	2.92	100.0	55	127
117.0	35.0	28 38.0	115 16.0	BD	56 09 15	1201	124	492	2.52	100.0	87	58
117.0	40.0	28 28.0	115 35.5	BD	56 09 15	0901	135	405	3.33	100.0	13	22
118.5	25.0	28 40.5	114 25.5	BD	56 09 14	2302	77	264	2.91	50.0	19	113
118.5	30.0	28 30.5	114 45.5	BD	56 09 15	0217	90	259	3.49	100.0	56	212
118.5	35.0	28 20.5	115 05.0	BD	56 09 15	0517	99	288	3.45	100.0	25	219
120.0	25.0	28 23.0	114 14.5	BD	56 09 14	2009	44	121	3.67	100.0	9	54
120.0	30.0	28 13.0	114 34.0	BD	56 09 14	1718	66	188	3.50	100.0	23	137
120.0	35.0	28 03.0	114 54.0	BD	56 09 14	1413	68	166	4.08	50.0	6	226
120.0	40.0	27 56.5	115 14.0	BD	56 09 14	1134	21	108	1.94	50.0	25	309
120.0	45.0	27 43.0	115 33.0	BD	56 09 14	0821	128	426	3.00	50.0	57	22
123.0	37.0	27 24.0	114 39.7	BD	56 09 13	2023	65	234	2.77	50.0	189	39
123.0	42.0	27 14.0	114 59.7	BD	56 09 13	2311	136	415	3.27	50.0	38	25
123.0	45.0	27 08.0	115 11.2	BD	56 09 14	0140	148	406	3.64	50.0	59	7
127.0	34.0	26 55.3	114 06.0	BD	56 09 13	1428	68	241	2.82	100.0	43	90
127.0	40.0	26 43.5	114 29.5	BD	56 09 13	1106	135	439	3.07	100.0	21	7
127.0	45.0	26 33.5	114 48.7	BD	56 09 13	0811	144	399	3.60	100.0	30	10
130.0	30.0	26 29.0	113 29.0	BD	56 09 12	0450	56	260	2.16	100.0	169	27
130.0	35.0	26 19.0	113 48.5	BD	56 09 12	1926	144	434	3.31	50.0	58	58
130.0	40.0	26 09.0	114 07.5	BD	56 09 12	2241	143	417	3.43	50.0	87	0
130.0	45.0	25 59.0	114 25.7	BD	56 09 13	0151	138	442	3.12	50.0	87	3
133.0	25.0	26 04.6	112 48.0	BD	56 09 11	2243	70	182	3.84	100.0	232	71
133.0	30.0	25 54.5	113 07.5	BD	56 09 11	1936	149	373	3.98	100.0	381	9
137.0	23.0	25 34.2	112 18.7	BD	56 09 11	0738	62	232	2.68	12.0	8	326
137.0	30.0	25 20.0	112 45.5	BD	56 09 11	1041	138	258	4.10	25.0	7	101



TABLE 1. (cont.)

CALCOFI Cruise 5610												
Line	Station	Lat. (N) deg. min.	Long. (W) deg. min.	Ship Code	Tow Date yr. mo. day	Time (PST)	Tow Depth (m)	Vol. Water Strained (cu. m)	Stand- ard Haul Factor	Percent Sorted	Total Larvae	Total Eggs
80.0	51.0	34 26.5	120 32.0	OR	56 09 28	1233	72	281	2.54	100.0	2	294
80.0	55.0	34 18.6	120 48.0	OR	56 09 28	1446	141	479	2.94	100.0	73	15
80.0	60.0	34 08.8	121 09.0	OR	56 09 28	1721	141	483	2.92	50.0	6	19
80.0	70.0	33 49.0	121 51.0	OR	56 09 28	2216	141	484	2.92	50.0	14	91
80.0	80.0	33 28.5	122 32.0	OR	56 09 29	0311	140	465	3.01	50.0	6	34
80.0	90.0	33 09.0	123 12.5	OR	56 09 29	0816	144	483	2.98	100.0	9	98
82.0	47.0	34 14.7	119 58.0	OR	56 09 30	0736	140	488	2.87	50.0	13	19
83.0	40.0	34 13.4	119 22.0	OR	56 09 30	1225	7	34	2.03	100.0	99	83
83.0	43.0	34 07.6	119 34.0	OR	56 09 30	1036	142	498	2.84	100.0	30	6
83.0	51.0	33 51.0	120 07.0	OR	56 09 30	0302	105	366	2.86	100.0	40	42
83.0	55.0	33 42.2	120 22.2	OR	56 09 30	0031	135	485	2.77	50.0	46	5
83.0	60.0	33 25.0	120 52.5	OR	56 09 29	2011	140	470	2.97	50.0	15	0
87.0	40.0	33 40.0	118 59.0	OR	56 09 30	1706	141	472	2.99	25.0	1	0
87.0	45.0	33 29.9	119 19.4	OR	56 09 30	1956	141	466	3.04	50.0	4	3
87.0	50.0	33 19.5	119 42.3	OR	56 09 30	2334	51	177	2.88	100.0	35	23
87.0	55.0	33 10.0	120 00.0	OR	56 10 01	0201	147	433	3.40	50.0	19	2
87.0	60.0	33 00.0	120 22.0	OR	56 10 01	0436	145	427	3.39	50.0	4	8
90.0	28.0	33 28.3	117 45.5	OR	56 10 03	0438	84	262	3.20	100.0	31	49
90.0	30.0	33 24.0	117 54.6	OR	56 10 03	0246	141	502	2.81	100.0	5	0
90.0	37.0	33 10.2	118 23.0	OR	56 10 02	2316	142	460	3.10	100.0	2	12
90.0	45.0	32 54.5	118 55.6	OR	56 10 02	1851	141	462	3.05	100.0	12	4
90.0	50.0	32 44.5	119 16.1	OR	56 10 02	1456	140	461	3.04	100.0	3	0
90.0	55.0	32 41.2	119 32.0	OR	56 10 02	1226	141	486	2.90	100.0	1	1
90.0	60.0	32 26.5	119 59.0	OR	56 10 02	0836	142	472	3.00	100.0	0	0
90.0	70.0	32 06.0	120 39.5	OR	56 10 02	0336	141	410	3.45	100.0	0	7
90.0	80.0	31 45.0	121 18.5	OR	56 10 01	2301	141	466	3.03	100.0	4	64
90.0	90.0	31 25.0	121 58.5	OR	56 10 03	1241	140	471	2.97	100.0	2	21
93.0	27.0	32 55.2	117 19.6	OR	56 10 03	1241	141	434	3.25	50.0	20	182
93.0	30.0	32 49.6	117 31.3	OR	56 10 03	1436	141	437	3.23	100.0	2	2
93.0	35.0	32 40.0	117 51.7	OR	56 10 03	1736	140	460	3.04	12.0	2	0
93.0	40.0	32 30.0	118 12.3	OR	56 10 03	2006	139	454	3.06	100.0	5	1
93.0	45.0	32 19.0	118 32.5	OR	56 10 03	2241	142	437	3.25	12.0	0	0
93.0	50.0	32 09.5	118 53.0	OR	56 10 04	0136	141	460	3.07	100.0	6	2
93.0	55.0	31 51.0	119 10.0	OR	56 10 04	0411	141	408	3.45	100.0	2	1
93.0	60.0	31 51.0	119 18.0	OR	56 10 04	0701	140	452	3.09	100.0	1	3
97.0	30.0	32 15.5	117 08.4	OR	56 10 05	0443	56	192	2.90	100.0	0	0
97.0	32.0	32 11.5	117 16.5	OR	56 10 05	0316	142	440	3.23	50.0	13	0
97.0	40.0	31 53.0	117 48.5	OR	56 10 04	2136	144	437	3.30	100.0	14	0
97.0	45.0	31 42.5	118 08.0	OR	56 10 04	1856	141	464	3.03	50.0	4	0
97.0	50.0	31 31.5	118 27.0	OR	56 10 04	1546	142	454	3.12	12.0	0	0
97.0	55.0	31 21.0	118 47.0	OR	56 10 04	1336	143	453	3.15	100.0	0	1
97.0	60.0	31 17.0	118 55.0	OR	56 10 04	1206	142	460	3.09	100.0	0	2

TABLE 1. (cont.)

## CALCOFI Cruise 5611

Line	Station	Lat. (N) deg. min.	Long. (W) deg. min.	Ship Code	Tow Date yr. mo. day	Time (PST)	Tow Depth (m)	Vol. Water Strained (cu. m)	Stand- ard Haul Factor	Percent Sorted	Total Larvae	Total Eggs
80.0	51.0	34 26.5	120 32.6	OR	56 11 03	0803	84	275	3.07	100.0	3	6
80.0	55.0	34 18.4	120 48.2	OR	56 11 03	1021	140	456	3.08	100.0	4	23
80.0	60.0	34 09.0	121 10.0	OR	56 11 03	1311	131	462	2.85	100.0	9	2
80.0	70.0	33 49.0	121 54.0	OR	56 11 03	1801	140	433	3.24	100.0	13	5
80.0	80.0	33 29.0	122 32.0	OR	56 11 03	2211	139	445	3.13	50.0	18	4
80.0	90.0	33 11.0	122 56.5	OR	56 11 04	0246	135	460	2.93	50.0	8	20
82.0	47.0	34 15.0	119 58.3	OR	56 11 03	0336	136	442	3.08	100.0	91	140
83.0	40.0	34 13.5	119 22.0	OR	56 11 02	2315	14	65	2.23	100.0	1	0
83.0	43.0	34 08.0	119 34.1	OR	56 11 03	0041	133	436	3.04	50.0	49	4
83.0	51.0	33 51.0	120 09.5	OR	56 11 04	2111	140	421	3.32	100.0	173	6
83.0	55.0	33 44.0	120 24.0	OR	56 11 04	1811	135	451	2.98	100.0	17	5
83.0	60.0	33 34.0	120 45.0	OR	56 11 04	1526	131	454	2.89	100.0	22	16
87.0	36.0	33 49.0	118 42.0	OR	56 11 02	1756	125	462	2.71	50.0	57	33
87.0	40.0	33 41.0	118 58.5	OR	56 11 02	1536	137	425	3.23	100.0	1	11
87.0	45.0	33 31.7	119 16.0	OR	56 11 02	1251	131	463	2.84	50.0	0	8
87.0	50.0	33 20.5	119 39.2	OR	56 11 02	0958	59	218	2.72	100.0	19	2
87.0	55.0	33 09.8	120 00.0	OR	56 11 02	0636	139	431	3.23	50.0	16	39
87.0	60.0	33 00.0	120 21.0	OR	56 11 02	0246	138	460	2.99	100.0	6	1
90.0	28.0	33 28.0	117 48.0	OR	56 10 31	1951	133	460	2.89	100.0	47	0
90.0	30.0	33 24.5	117 55.0	OR	56 10 31	2116	140	581	2.41	50.0	2	1
90.0	37.0	33 10.5	118 23.5	OR	56 11 01	0106	130	546	2.38	50.0	2	2
90.0	45.0	32 59.0	118 58.5	OR	56 11 01	0906	136	480	2.82	12.0	0	0
90.0	55.0	32 49.0	119 19.5	OR	56 11 01	1206	140	424	3.30	100.0	0	4
90.0	55.0	32 40.0	119 39.0	OR	56 11 01	1541	106	541	1.96	100.0	4	1
93.0	27.0	32 57.0	117 18.5	OR	56 11 01	1936	116	517	2.25	12.0	1	1
93.0	30.0	32 52.7	117 29.1	OR	56 10 31	1349	32	177	1.80	100.0	42	12
93.0	35.0	32 40.0	117 52.5	OR	56 10 31	0851	139	491	2.84	100.0	2	0
93.0	40.0	32 33.0	118 15.0	OR	56 10 31	0606	139	483	2.82	100.0	1	0
93.0	45.0	32 23.5	118 39.0	OR	56 10 31	0241	144	489	2.94	12.0	5	1
93.0	50.0	32 13.0	118 57.0	OR	56 10 31	0001	138	512	2.69	100.0	6	0
93.0	55.0	32 01.5	119 16.0	OR	56 10 30	2106	139	489	2.85	12.0	0	0
93.0	60.0	31 50.0	119 34.0	OR	56 10 30	1816	141	492	2.86	100.0	1	2
97.0	30.0	32 15.0	117 08.5	OR	56 10 29	1859	28	112	2.50	100.0	14	3
97.0	32.0	32 10.5	117 17.0	OR	56 10 29	2011	142	493	2.89	25.0	1	0
97.0	40.0	31 55.0	117 46.5	OR	56 10 30	0036	144	510	2.74	50.0	3	0
97.0	45.0	31 45.0	118 04.0	OR	56 10 30	0356	144	468	3.08	50.0	1	1
97.0	50.0	31 33.5	118 24.0	OR	56 10 30	0641	138	493	2.80	50.0	4	2
97.0	55.0	31 21.5	118 47.0	OR	56 10 30	0946	140	495	2.84	100.0	2	1
97.0	60.0	31 16.5	119 11.0	OR	56 10 30	1236	141	481	2.92	25.0	0	1

TABLE 1. (cont.)

## CALCOFI Cruise 5612

Line	Station	Lat. (N) deg. min.	Long. (W) deg. min.	Ship Code	Tow yr. mo. day	Time (PST)	Tow Depth (m)	Vol. Water Strained (cu. m)	Stand- Haul Factor	Percent Sorted	Total Larvae	Total Eggs
80.0	51.0	34 26.0	120 32.8	OR	56 12 05	1417	112	412	2.73	100.0	13	497
80.0	55.0	34 19.6	120 48.1	OR	56 12 05	1616	138	466	2.97	50.0	14	128
80.0	60.0	34 09.2	121 09.0	OR	56 12 05	1856	142	462	3.07	50.0	41	12
80.0	70.0	33 47.5	121 51.5	OR	56 12 06	0016	145	452	3.22	50.0	2	13
80.0	80.0	33 27.3	122 33.2	OR	56 12 06	0531	143	465	3.07	100.0	20	12
80.0	90.0	33 06.8	123 15.0	OR	56 12 06	1046	141	462	3.05	100.0	4	9
82.0	47.0	34 14.8	119 58.0	OR	56 12 07	1206	146	465	2.93	100.0	21	703
83.0	43.0	34 07.8	119 34.0	OR	56 12 07	1506	141	480	3.14	100.0	9	29
83.0	51.0	33 51.2	120 08.0	OR	56 12 07	0736	143	451	3.16	100.0	65	150
83.0	55.0	33 43.5	120 29.5	OR	56 12 07	0506	140	505	3.02	25.0	4	6
83.0	60.0	33 32.5	120 46.0	OR	56 12 07	0146	141	461	3.07	25.0	4	2
83.0	36.0	33 47.9	118 42.1	OR	56 12 07	2041	141	457	3.09	100.0	7	57
87.0	40.0	33 40.1	118 59.0	OR	56 12 07	2251	141	466	3.02	100.0	7	117
87.0	45.0	33 30.1	119 19.4	OR	56 12 08	0136	141	463	3.05	50.0	52	227
87.0	50.0	33 20.0	119 40.0	OR	56 12 08	0419	34	129	2.66	100.0	193	4
87.0	55.0	33 10.0	120 01.0	OR	56 12 08	0646	142	447	3.17	100.0	17	9
87.0	60.0	33 00.0	120 22.0	OR	56 12 08	0921	142	443	3.21	50.0	0	13
90.0	28.0	33 28.3	117 45.7	OR	56 12 10	1559	33	154	2.12	100.0	64	34
90.0	30.0	33 24.0	117 55.1	OR	56 12 10	1436	139	488	2.85	100.0	3	412
90.0	37.0	33 10.3	118 23.2	OR	56 12 10	0801	141	507	2.78	100.0	14	13
90.0	45.0	32 54.5	118 55.5	OR	56 12 10	0341	140	482	2.90	50.0	6	0
90.0	50.0	32 45.5	119 17.0	OR	56 12 10	0046	141	500	2.82	25.0	8	6
90.0	55.0	32 36.7	119 39.5	OR	56 12 09	2156	142	483	2.94	50.0	5	12
90.0	60.0	32 30.0	120 05.0	OR	56 12 09	1901	133	494	2.69	50.0	0	13
90.0	70.0	32 04.0	120 39.0	OR	56 12 09	1200	143	493	2.90	100.0	0	14
90.0	80.0	31 45.0	121 19.0	OR	56 12 09	0626	136	463	2.82	100.0	1	4
90.0	90.0	31 30.0	121 51.0	OR	56 12 08	2304	153	466	3.28	100.0	2	30
93.0	27.0	32 55.0	117 20.0	OR	56 12 10	2042	105	382	2.74	100.0	11	11
93.0	30.0	32 50.0	117 31.5	OR	56 12 10	2226	138	470	2.93	100.0	7	11
93.0	35.0	32 39.5	117 52.0	OR	56 12 11	0056	138	505	2.73	100.0	1	0
93.0	40.0	32 29.5	118 13.0	OR	56 12 11	0326	134	460	2.92	100.0	3	0
93.0	45.0	32 19.5	118 34.0	OR	56 12 11	0556	131	441	2.98	100.0	11	24
93.0	50.0	32 09.5	118 53.0	OR	56 12 11	0826	137	470	2.92	100.0	7	79
93.0	55.0	32 00.0	119 13.5	OR	56 12 11	1056	135	475	2.83	100.0	2	5
93.0	60.0	31 50.0	119 34.0	OR	56 12 11	1326	140	471	2.98	100.0	0	2
97.0	30.0	32 15.0	117 09.0	OR	56 12 12	0959	32	152	2.13	100.0	3	6
97.0	32.0	32 11.2	117 16.5	OR	56 12 12	0826	139	487	2.86	100.0	7	7
97.0	40.0	31 54.5	117 51.5	OR	56 12 12	0416	138	466	2.96	100.0	5	9
97.0	45.0	31 44.5	118 11.0	OR	56 12 12	0146	141	498	2.84	100.0	6	4
97.0	50.0	31 35.0	118 31.0	OR	56 12 11	2256	141	454	3.10	100.0	1	1
97.0	55.0	31 28.0	118 50.5	OR	56 12 11	2031	144	450	3.20	100.0	11	3
97.0	60.0	31 15.0	119 11.0	OR	56 12 11	1756	137	466	2.95	50.0	1	2

TABLE 2. Pooled occurrences of fish larvae taken during CalCOFI cruises in 1956.

Rank	Taxon	Occurrences
1	<i>Sebastes</i> spp.	613
2	<i>Engraulis mordax</i>	537
3	<i>Leuroglossus stilbius</i>	465
4	<i>Stenobranchius leucopsarus</i>	395
5	<i>Merluccius productus</i>	365
6	<i>Triphoturus mexicanus</i>	322
7	<i>Protomyctophum crockeri</i>	243
8	<i>Tarletonbeania crenularis</i>	236
9	<i>Vinciguerrria lucetia</i>	225
10	<i>Trachurus symmetricus</i>	217
11	<i>Lampanyctus ritteri</i>	214
12	<i>Citharichthys stigmaeus</i>	207
13	<i>Bathylagus ochotensis</i>	171
14	<i>Sardinops sagax</i>	167
15	<i>Bathylagus wesethi</i>	157
16	<i>Tetragonurus cuvieri</i>	146
17	<i>Melamphaes</i> spp.	138
18	<i>Diogenichthys laternatus</i>	113
19	<i>Citharichthys xanthostigma</i>	106
20	Disintegrated fish larva	103
21	<i>Diaphus</i> spp.	101
22	Unidentified fish larva	100
23	<i>Icichthys lockingtoni</i>	95
24	<i>Citharichthys fragilis</i>	93
25	<i>Diogenichthys atlanticus</i>	85
26	<i>Citharichthys</i> spp.	82
27	<i>Argentina sialis</i>	77
28	<i>Cyclothone</i> spp.	74
28	<i>Lyopsetta exilis</i>	74
30	Gobiidae	71
31	<i>Symbolophorus californiensis</i>	60
32	Paralepididae	59
32	<i>Citharichthys sordidus</i>	59
34	Sciaenidae	58
35	Myctophidae	55
36	<i>Chauliodus macouni</i>	54
37	<i>Symphurus</i> spp.	49
38	<i>Lampanyctus</i> spp.	45
39	<i>Synodus</i> spp.	39
39	Labridae	39
39	<i>Scomber japonicus</i>	39
42	Ophidiiformes	37
42	Cottidae	37
44	<i>Parophrys vetulus</i>	36
44	<i>Ceratoscopelus townsendi</i>	36
46	<i>Peprilus simillimus</i>	34
46	<i>Hippoglossina stomata</i>	34
48	<i>Pleuronichthys verticalis</i>	33

TABLE 2. (cont.)

Rank	Taxon	Occurrences
49	<i>Nansenia crassa</i>	32
50	Sternoptychidae	29
51	Trichiuridae	28
52	<i>Cololabis saira</i>	23
52	<i>Paralichthys californicus</i>	23
54	<i>Hygophum atratum</i>	22
55	<i>Stomias atriventer</i>	20
56	<i>Ophidion scrippsae</i>	19
56	<i>Prionotus</i> spp.	19
56	<i>Microstomus pacificus</i>	19
59	<i>Poromitra</i> spp.	18
59	<i>Chromis punctipinnis</i>	18
59	<i>Pleuronichthys</i> spp.	18
62	<i>Microstoma microstoma</i>	17
62	Clinidae	17
64	Scopelarchidae	16
65	<i>Scorpaena</i> spp.	15
66	<i>Lampanyctus regalis</i>	14
66	Chiasmodontidae	14
66	<i>Lampadena urophaos</i>	14
66	<i>Sphyraena argentea</i>	14
70	<i>Scorpaenichthys marmoratus</i>	13
70	<i>Nansenia candida</i>	13
70	<i>Myctophum nitidulum</i>	13
73	Trachipteridae	12
73	<i>Brosmophycis marginata</i>	12
73	<i>Gonichthys tenuiculus</i>	12
76	Anguilliformes	11
76	<i>Hypsoblennius</i> spp.	11
76	<i>Seriola lalandi</i>	11
79	<i>Zaniolepis</i> spp.	9
79	<i>Chilara taylori</i>	9
79	Carangidae	9
79	<i>Auxis</i> spp.	9
83	<i>Caulolatilus princeps</i>	8
83	Serranidae	8
83	Cyclopteridae	8
83	<i>Glyptocephalus zachirus</i>	8
83	<i>Etrumeus acuminatus</i>	8
83	Pomacentridae	8
89	<i>Hygophum reinhardtii</i>	7
89	<i>Oxylebius pictus</i>	7
89	Agonidae	7
92	<i>Coryphaena hippurus</i>	6
92	Pleuronectiformes	6
92	Macrouridae	6
92	<i>Hygophum</i> spp.	6
92	<i>Idiacanthus antrostomus</i>	6
97	<i>Scopelogadus bispinosus</i>	5

TABLE 2. (cont.)

Rank	Taxon	Occurrences
97	<i>Loweina rara</i>	5
97	<i>Medialuna californiensis</i>	5
97	<i>Pleuronichthys ritteri</i>	5
101	<i>Sarda chiliensis</i>	4
101	<i>Myctophum aurolaternatum</i>	4
101	<i>Opisthonema</i> spp.	4
104	<i>Ichthyococcus</i> spp.	3
104	<i>Diplophos taenia</i>	3
104	Stomiiformes	3
104	<i>Leuroglossus schmidti</i>	3
104	<i>Pleuronichthys coenosus</i>	3
104	<i>Girella nigricans</i>	3
104	<i>Diogenichthys</i> spp.	3
104	<i>Bathophilus</i> spp.	3
104	Atherinidae	3
113	<i>Physiculus</i> spp.	2
113	<i>Mugil</i> spp.	2
113	Carapidae	2
113	Ceratioidei	2
113	<i>Aristostomias scintillans</i>	2
113	Osmeridae	2
113	<i>Syacium ovale</i>	2
113	<i>Bathylagus milleri</i>	2
113	<i>Notolychnus valdiviae</i>	2
113	<i>Pleuronichthys decurrens</i>	2
113	<i>Bothus</i> spp.	2
113	<i>Sebastolobus</i> spp.	2
113	<i>Syngnathus</i> spp.	2
126	<i>Notoscopelus resplendens</i>	1
126	<i>Xystreurys liolepis</i>	1
126	<i>Psettichthys melanostictus</i>	1
126	<i>Ophiodon elongatus</i>	1
126	<i>Scopelosaurus</i> spp.	1
126	<i>Bathylagus</i> spp.	1
126	Scorpaenidae	1
126	Blennioidei	1
126	<i>Scomberomorus</i> spp.	1
126	Exocoetidae	1
126	<i>Icosteus aenigmaticus</i>	1

TABLE 3. Pooled numbers of fish larvae taken during CalCOFI cruises in 1956. Count are adjusted for percent of sample sorted and standard haul factor (see text).

Rank	Taxon	Count
1	<i>Engraulis mordax</i>	136695
2	<i>Merluccius productus</i>	92175
3	<i>Sebastes</i> spp.	29279
4	<i>Leuroglossus stilbius</i>	18717
5	<i>Stenobranchius leucopsarus</i>	15149
6	<i>Sardinops sagax</i>	15123
7	<i>Triphoturus mexicanus</i>	10836
8	<i>Citharichthys fragilis</i>	10353
9	<i>Vinciguerria lucetia</i>	9861
10	<i>Trachurus symmetricus</i>	8005
11	<i>Citharichthys xanthostigma</i>	6331
12	<i>Diaphus</i> spp.	3574
13	<i>Scorpaena</i> spp.	3518
14	<i>Tarletonbeania crenularis</i>	3373
15	<i>Citharichthys stigmaeus</i>	3203
16	<i>Diogenichthys laternatus</i>	3107
17	<i>Citharichthys</i> spp.	2905
18	<i>Prionotus</i> spp.	2446
19	<i>Bathylagus ochotensis</i>	2261
20	<i>Tetragonurus cuvieri</i>	2188
21	<i>Bathylagus wesethi</i>	2174
22	<i>Lampanyctus ritteri</i>	1900
23	<i>Protomyctophum crockeri</i>	1853
24	<i>Scomber japonicus</i>	1530
25	Unidentified fish larva	1509
26	Sciaenidae	1426
27	<i>Symphurus</i> spp.	1393
28	<i>Argentina sialis</i>	1342
29	<i>Lyopsetta exilis</i>	989
30	<i>Synodus</i> spp.	969
31	<i>Melamphaes</i> spp.	938
32	<i>Icichthys lockingtoni</i>	897
33	<i>Citharichthys sordidus</i>	888
34	<i>Cyclothone</i> spp.	805
35	<i>Diogenichthys atlanticus</i>	772
36	Serranidae	711
37	Disintegrated fish larva	697
38	<i>Peprilus simillimus</i>	645
39	Osmeridae	627
40	<i>Ophidion scrippsae</i>	520
41	<i>Opisthonema</i> spp.	481
42	<i>Symbolophorus californiensis</i>	480
43	Ophidiiformes	477
44	Gobiidae	453
45	<i>Pleuronichthys verticalis</i>	452
46	Myctophidae	444
47	<i>Parophrys vetulus</i>	436

TABLE 3. (cont.)

Rank	Taxon	Count
48	<i>Etrumeus acuminatus</i>	410
49	Trichiuridae	384
50	Paralepididae	370
51	<i>Chauliodus macouni</i>	352
52	<i>Lampanyctus</i> spp.	343
53	Labridae	334
54	<i>Hippoglossina stomata</i>	320
55	Cottidae	293
56	<i>Paralichthys californicus</i>	259
57	<i>Sphyraena argentea</i>	258
58	<i>Pleuronichthys</i> spp.	238
59	<i>Auxis</i> spp.	232
60	<i>Chromis punctipinnis</i>	228
61	<i>Ceratoscopelus townsendi</i>	222
62	Sternoptychidae	206
63	Carangidae	201
64	<i>Microstomus pacificus</i>	195
65	<i>Lampadena urophaos</i>	155
66	<i>Nansenia crassa</i>	153
67	<i>Hygophum atratum</i>	138
68	<i>Sarda chiliensis</i>	134
69	<i>Cololabis saira</i>	129
70	<i>Pleuronichthys ritteri</i>	104
70	Clinidae	104
72	<i>Myctophum nitidulum</i>	94
73	<i>Poromitra</i> spp.	90
74	Pomacentridae	84
74	<i>Microstoma microstoma</i>	84
74	Scopelarchidae	84
77	<i>Lampanyctus regalis</i>	83
78	<i>Seriola lalandi</i>	82
79	<i>Stomias atriventer</i>	78
80	<i>Caulolatilus princeps</i>	77
81	<i>Medialuna californiensis</i>	75
82	Trachipteridae	71
82	<i>Brosmophycis marginata</i>	71
84	Anguilliformes	68
85	<i>Idiacanthus antrostomus</i>	67
86	<i>Nansenia candida</i>	66
87	Pleuronectiformes	65
87	<i>Scorpaenichthys marmoratus</i>	65
89	<i>Chilara taylori</i>	64
90	<i>Gonichthys tenuiculus</i>	60
91	<i>Hypsoblennius</i> spp.	53
92	<i>Glyptocephalus zachirus</i>	48
93	Chiasmodontidae	47
94	Cyclopteridae	45
94	<i>Zaniolepis</i> spp.	45
96	<i>Hygophum</i> spp.	43



TABLE 3. (cont.)

Rank	Taxon	Count
97	<i>Coryphaena hippurus</i>	36
97	<i>Mugil</i> spp.	36
99	Agonidae	27
99	<i>Hygophum reinhardtii</i>	27
101	Stomiiformes	26
102	<i>Syacium ovale</i>	25
102	<i>Oxylebius pictus</i>	25
102	<i>Pleuronichthys coenosus</i>	25
105	<i>Myctophum aurolaternatum</i>	24
105	<i>Scopelogadus bispinosus</i>	24
105	<i>Girella nigricans</i>	24
108	<i>Loweina rara</i>	23
109	<i>Diogenichthys</i> spp.	21
109	Macrouridae	21
111	<i>Leuroglossus schmidti</i>	19
112	Atherinidae	18
113	Blennioidei	17
114	<i>Bathophilus</i> spp.	15
115	<i>Ichthyococcus</i> spp.	13
116	<i>Bathylagus</i> spp.	12
116	<i>Notolychnus valdiviae</i>	12
116	<i>Sebastolobus</i> spp.	12
119	<i>Pleuronichthys decurrens</i>	11
119	<i>Scomberomorus</i> spp.	11
121	<i>Bathylagus milleri</i>	9
121	<i>Diplophos taenia</i>	9
123	<i>Bothus</i> spp.	8
124	<i>Physiculus</i> spp.	7
125	<i>Aristostomias scintillans</i>	6
125	Carapidae	6
127	Ceratioidei	5
127	<i>Xystreurys liolepis</i>	5
127	<i>Scopelosaurus</i> spp.	5
130	Scorpaenidae	4
130	<i>Notoscopelus resplendens</i>	4
132	<i>Icosteus aenigmaticus</i>	3
132	<i>Syngnathus</i> spp.	3
132	<i>Psettichthys melanostictus</i>	3
132	Exocoetidae	3
136	<i>Ophiodon elongatus</i>	2
	Total	412964

TABLE 4. Numbers of fish larvae taken on stations occupied during CalCOFI cruises in 1956. Counts are adjusted for percent of sample sorted and standard haul factor (see text). Average number is given for stations occupied more than once during a calendar month. Unoccupied stations are indicated by a dash.

Anguilliformes												
STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
118.0	39.0	0.0	0.0	0.0	0.0	0.0	27.6	-	-	-	-	-
130.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	7.1	2.2	-	-	-
130.0	35.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-
130.0	50.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
130.0	60.0	-	3.4	0.0	0.0	0.0	0.0	-	-	-	-	-
133.0	25.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	3.8	-	-	-
133.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.0	-	-	-
153.0	50.0	0.0	0.0	4.3	-	-	-	-	-	-	-	-
157.0	20.0	0.0	-	0.0	-	-	-	-	-	-	-	-

<i>Etrumeus acuminatus</i>												
STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
118.5	35.0	-	-	-	-	-	-	106.9	0.0	-	-	-
120.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	11.2	0.0	-	-	-
130.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	57.0	0.0	-	-	-
130.0	35.0	0.0	0.0	0.0	0.0	0.0	0.0	43.0	0.0	-	-	-
133.0	25.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	49.9	-	-	-
133.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	-	-	-
137.0	23.0	0.0	0.0	0.0	0.0	0.0	0.0	136.8	0.0	-	-	-
143.0	26.0	1.4	0.0	0.0	-	-	-	-	-	-	-	-

<i>Opisthonema spp.</i>												
STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
130.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	213.6	0.0	-	-	-
130.0	35.0	0.0	0.0	0.0	0.0	0.0	0.0	157.5	0.0	-	-	-
137.0	23.0	0.0	0.0	0.0	0.0	0.0	0.0	94.7	0.0	-	-	-
137.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	14.7	0.0	-	-	-

<i>Sardinops sagax</i>												
STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
87.0	55.0	-	-	-	0.0	820.8	0.0	-	-	0.0	0.0	0.0
87.0	60.0	0.0	0.0	0.0	0.0	11.5	0.0	-	-	0.0	0.0	0.0
87.0	70.0	-	0.0	0.0	0.0	11.0	0.0	-	-	-	-	-
87.0	80.0	-	0.0	0.0	0.0	2.8	0.0	-	-	-	-	-
90.0	55.0	0.0	0.0	0.0	0.0	162.0	0.0	-	-	0.0	0.0	0.0
90.0	75.0	-	0.0	0.0	12.8	1.6	0.0	-	-	-	-	-
90.0	80.0	0.0	0.0	0.0	9.5	50.3	0.0	-	-	0.0	-	0.0

TABLE 4. (cont.)

*Sardinops sagax* (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
90.0	85.0	-	-	-	0.0	2.6	0.0	-	-	-	-	-
93.0	27.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	3.3	-	0.0
93.0	40.0	0.0	0.0	0.0	3.8	0.0	0.0	-	-	0.0	-	0.0
93.0	55.0	-	-	-	9.3	0.0	0.0	-	-	0.0	-	0.0
93.0	60.0	0.0	0.0	0.0	41.2	28.6	0.0	-	-	0.0	-	0.0
93.0	65.0	-	-	-	-	51.2	0.0	-	-	-	-	-
93.0	70.0	0.0	0.0	0.0	123.2	20.4	0.0	-	-	-	-	-
93.0	75.0	-	-	-	20.3	46.6	0.0	-	-	-	-	-
93.0	85.0	-	-	-	0.0	48.4	11.2	-	-	-	-	-
97.0	40.0	0.0	0.0	0.0	0.0	10.2	7.2	-	-	0.0	-	0.0
97.0	45.0	0.0	0.0	0.0	3.8	-	0.0	-	-	0.0	-	0.0
97.0	50.0	0.0	0.0	0.0	0.0	48.3	0.0	-	-	0.0	-	0.0
97.0	55.0	-	-	-	30.8	0.0	0.0	-	-	0.0	-	0.0
97.0	60.0	0.0	0.0	0.0	0.0	161.9	122.0	-	-	0.0	-	0.0
97.0	70.0	0.0	0.0	0.0	0.0	0.0	17.2	-	-	0.0	-	0.0
97.0	75.0	-	-	-	0.0	37.8	0.0	-	-	-	-	-
100.0	29.0	0.0	0.0	0.0	0.0	0.0	4.7	-	-	-	-	-
100.0	30.0	0.0	0.0	0.0	0.0	0.0	34.4	-	-	-	-	-
100.0	50.0	0.0	27.2	0.0	0.0	0.0	0.0	-	-	-	-	-
100.0	55.0	-	-	-	24.0	0.0	0.0	-	-	-	-	-
100.0	60.0	0.0	0.0	0.0	6.1	8.6	0.0	-	-	-	-	-
100.0	65.0	0.0	0.0	0.0	0.0	9.4	0.0	-	-	-	-	-
100.0	85.0	-	-	-	0.0	-	0.0	-	-	-	-	-
100.0	90.0	-	-	-	3.3	-	0.0	-	-	-	-	-
103.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
103.0	35.0	0.0	0.0	0.0	0.0	0.0	4.5	-	-	-	-	-
103.0	40.0	0.0	0.0	0.0	0.0	2.8	0.0	-	-	-	-	-
103.0	45.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
103.0	50.0	0.0	7.6	0.0	157.7	-	0.0	-	-	-	-	-
103.0	70.0	-	7.5	0.0	25.0	-	0.0	-	-	-	-	-
103.0	80.0	-	7.2	0.0	0.0	-	0.0	-	-	-	-	-
103.0	90.0	-	1.5	0.0	0.0	-	0.0	-	-	-	-	-
107.0	32.0	0.0	6.6	0.0	0.0	3.7	175.7	-	-	-	-	-
107.0	45.0	-	-	-	0.0	6.0	0.0	-	-	-	-	-
107.0	50.0	0.0	36.3	0.0	0.0	26.4	0.0	-	-	-	-	-
107.0	60.0	0.0	29.1	0.0	0.0	0.0	0.0	-	-	-	-	-
107.0	90.0	-	0.0	0.0	19.6	0.0	0.0	-	-	-	-	-
110.0	33.0	0.0	2.9	0.0	0.0	12.8	0.0	0.0	0.0	-	-	-
110.0	35.0	0.0	2.8	0.0	0.0	0.0	77.8	0.0	0.0	-	-	-
110.0	40.0	25.8	6.5	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-
110.0	45.0	-	-	-	0.0	14.9	179.1	-	-	-	-	-
110.0	60.0	0.0	22.3	0.0	0.0	0.0	0.0	-	-	-	-	-
110.0	70.0	0.0	11.4	0.0	0.0	0.0	0.0	-	-	-	-	-
113.0	30.0	0.0	0.0	0.0	0.0	0.0	322.5	3.0	14.6	-	-	-
113.0	35.0	0.0	0.0	0.0	0.0	0.0	18.0	0.0	0.0	-	-	-

TABLE 4. (cont.)

STATION	<i>Sardinops sagax</i> (cont.)											
	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
113.0	40.0	0.0	0.0	17.0	0.0	0.0	0.0	0.0	0.0	-	-	-
113.0	45.0	-	9.7	-	0.0	0.0	0.0	-	-	-	-	-
113.0	50.0	0.0	12.0	0.0	0.0	0.0	0.0	-	-	-	-	-
113.0	55.0	-	26.3	-	0.0	0.0	0.0	-	-	-	-	-
113.0	60.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
113.0	70.0	0.0	54.8	0.0	0.0	0.0	0.0	-	-	-	-	-
113.0	70.0	0.0	58.6	0.0	0.0	0.0	0.0	142.9	12.2	-	-	-
115.0	27.0	-	-	-	-	-	-	44.5	0.0	-	-	-
117.0	26.0	0.0	0.0	0.0	0.0	0.0	220.2	0.0	0.0	-	-	-
117.0	35.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-
117.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-
117.0	40.0	642.7	0.0	2.7	0.0	0.0	0.0	6.0	0.0	-	-	-
117.0	50.0	86.1	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
117.0	55.0	-	27.1	-	0.0	0.0	0.0	-	-	-	-	-
118.0	39.0	0.0	0.0	-	123.1	0.0	0.0	-	-	-	-	-
118.5	25.0	-	-	-	-	-	-	118.0	5.8	-	-	-
118.5	30.0	-	-	-	-	-	-	9.5	0.0	-	-	-
118.5	35.0	-	-	-	-	-	-	2217.8	0.0	-	-	-
120.0	25.0	0.0	0.0	0.0	0.0	0.0	212.2	876.5	0.0	-	-	-
120.0	30.0	0.0	12.8	0.0	156.6	0.0	74.5	30.1	0.0	-	-	-
120.0	35.0	-	-	-	-	-	-	12.5	0.0	-	-	-
120.0	40.0	42.8	107.6	0.0	0.0	192.3	42.6	165.8	27.2	-	-	-
120.0	45.0	3.3	265.2	225.3	3.6	0.0	0.0	0.0	6.0	-	-	-
120.0	50.0	44.1	0.0	394.2	0.0	0.0	0.0	0.0	-	-	-	-
120.0	60.0	0.0	0.0	0.0	3.5	0.0	0.0	-	-	-	-	-
123.0	37.0	8.9	40.6	7.4	0.0	0.0	0.0	193.1	814.4	-	-	-
123.0	40.0	5.7	208.6	0.0	-	0.0	0.0	-	-	-	-	-
123.0	42.0	-	437.8	0.0	0.0	0.0	0.0	5.9	85.0	-	-	-
123.0	45.0	-	56.5	-	-	-	-	0.0	36.4	-	-	-
123.0	50.0	-	18.4	0.0	0.0	0.0	0.0	-	-	-	-	-
127.0	34.0	5.6	62.6	0.0	0.0	0.0	0.0	37.4	0.0	-	-	-
127.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-
127.0	50.0	0.0	0.0	38.5	0.0	0.0	0.0	0.0	0.0	-	-	-
127.0	55.0	5.9	104.4	-	0.0	0.0	0.0	-	-	-	-	-
127.0	60.0	-	-	-	0.0	60.6	0.0	-	-	-	-	-
130.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.6	-	-	-
130.0	35.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.2	-	-	-
130.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	73.4	0.0	-	-	-
130.0	45.0	0.0	3.1	0.0	0.0	0.0	0.0	0.0	12.5	-	-	-
133.0	30.0	0.0	0.0	0.0	0.0	0.0	2.5	0.0	0.0	-	-	-
133.0	60.0	-	13.0	-	-	0.0	-	-	-	-	-	-
137.0	23.0	32.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-
137.0	30.0	0.0	0.0	0.0	0.0	15.3	10.2	0.0	0.0	-	-	-
140.0	60.0	-	2.8	-	-	-	-	-	-	-	-	-
143.0	26.0	394.4	9.4	0.0	-	-	-	-	-	-	-	-
143.0	40.0	-	0.0	4.4	-	-	-	-	-	-	-	-
147.0	20.0	576.5	173.7	0.0	-	-	-	-	-	-	-	-
147.0	25.0	0.0	10.2	0.0	-	-	-	-	-	-	-	-

TABLE 4. (cont.)

*Sardinops sagax* (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
150.0	19.0	0.0	212.4	0.0	-	-	-	-	-	-	-	-
150.0	25.0	0.0	56.9	0.0	-	-	-	-	-	-	-	-
150.0	30.0	0.0	8.1	0.0	-	-	-	-	-	-	-	-
153.0	16.0	0.0	0.0	5.4	-	-	-	-	-	-	-	-

*Engraulis mordax*

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
63.0	52.0	-	-	0.0	1.0	-	0.0	-	-	-	-	-
77.0	50.0	-	-	0.0	0.0	-	179.4	-	-	-	-	-
77.0	55.0	-	-	0.0	0.0	-	207.9	-	-	-	-	-
77.0	60.0	-	-	0.0	0.0	-	191.0	-	-	-	-	-
77.0	70.0	-	-	0.0	0.0	-	48.8	-	-	-	-	-
80.0	51.0	3.4	-	0.0	2.2	-	0.0	-	0.0	0.0	0.0	13.7
80.0	55.0	0.0	9.2	0.0	0.0	-	186.0	-	35.3	0.0	0.0	0.0
80.0	60.0	0.0	64.6	0.0	0.0	-	5.2	-	0.0	0.0	0.0	0.0
80.0	70.0	0.0	6.4	0.0	0.0	-	0.0	-	0.0	0.0	0.0	6.4
82.0	47.0	0.0	82.9	0.0	39.1	39.8	355.7	-	28.7	209.4	0.0	0.0
83.0	40.0	7.4	0.0	6.9	36.1	-	4.1	-	186.8	0.0	0.0	0.0
83.0	43.0	20.9	25.0	5.7	10.8	-	198.1	-	42.6	237.1	3.1	3.1
83.0	48.0	-	-	-	-	-	86.1	-	-	-	-	-
83.0	51.0	41.2	368.5	14.3	77.9	-	46.9	-	60.1	428.3	0.0	0.0
83.0	55.0	-	-	16.4	52.0	-	285.0	-	155.1	3.0	0.0	0.0
83.0	60.0	0.0	11.9	0.0	0.0	-	905.6	-	23.8	8.7	12.3	12.3
83.0	70.0	0.0	0.0	0.0	0.0	-	25.4	-	-	-	-	-
87.0	36.0	69.2	202.5	19.7	58.2	411.9	96.6	-	0.0	287.3	3.1	3.1
87.0	40.0	0.0	38.3	179.0	32.6	56.1	0.0	-	0.0	0.0	0.0	25.2
87.0	45.0	0.0	-	-	3.0	2.7	340.0	-	6.1	0.0	0.0	54.9
87.0	50.0	4.2	76.2	15.7	2.0	35.4	61.8	-	54.7	8.2	2.7	2.7
87.0	55.0	-	-	-	0.0	0.0	31.6	-	-	84.0	0.0	0.0
87.0	60.0	0.0	0.0	7.6	0.0	0.0	11.9	-	-	3.0	0.0	0.0
87.0	65.0	-	-	-	0.0	0.0	25.5	-	-	-	-	-
87.0	75.0	-	-	-	2.0	0.0	3.0	-	-	-	-	-
90.0	28.0	311.0	95.8	492.8	1006.7	256.5	313.6	-	-	93.2	-	120.8
90.0	30.0	24.8	3.1	158.2	25.2	19.2	70.3	-	-	9.0	-	2.8
90.0	37.0	80.5	40.7	128.7	598.1	45.6	365.4	-	-	0.0	0.0	0.0
90.0	45.0	78.0	5.5	572.0	242.7	25.4	20.3	-	-	0.0	0.0	0.0
90.0	50.0	-	-	-	95.8	0.0	6.0	-	-	0.0	0.0	0.0
90.0	55.0	0.0	24.4	0.0	0.0	0.0	0.0	-	-	0.0	0.0	0.0
90.0	60.0	0.0	15.9	0.0	0.0	0.0	0.0	-	-	0.0	0.0	0.0
90.0	65.0	-	-	-	0.0	0.0	11.6	-	-	-	-	-
90.0	80.0	0.0	72.2	0.0	0.0	0.0	0.0	-	-	0.0	0.0	0.0
93.0	27.0	118.7	11.8	530.7	201.6	58.0	310.2	-	-	45.5	-	21.9
93.0	30.0	0.0	14.0	77.7	9.0	454.8	156.8	-	-	1.6	-	0.0
93.0	35.0	-	-	-	6.2	308.6	33.5	-	-	12.7	-	0.0

TABLE 4. (cont.)

*Engraulis mordax* (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
93.0	40.0	44.0	13.7	11.2	0.0	886.0	0.0	-	-	0.0	-	0.0
93.0	45.0	-	-	-	0.0	970.2	0.0	-	-	0.0	-	0.0
93.0	50.0	37.9	0.0	23.7	0.0	0.0	0.0	-	-	0.0	-	0.0
93.0	60.0	0.0	413.2	0.0	0.0	0.0	0.0	-	-	0.0	-	0.0
93.0	70.0	0.0	5.6	0.0	0.0	0.0	13.6	-	-	-	-	-
93.0	75.0	-	-	-	6.8	9.3	0.0	-	-	-	-	-
97.0	30.0	4.4	162.8	2404.9	21.4	111.4	114.7	-	-	0.0	-	0.0
97.0	32.0	0.0	26.8	64.0	173.5	0.0	0.0	-	-	0.0	-	11.4
97.0	40.0	0.0	0.0	0.0	0.0	0.0	91.6	-	-	1.6	-	0.0
97.0	45.0	-	-	-	0.0	-	0.0	-	-	3.0	-	0.0
97.0	50.0	8.6	3.0	0.0	0.0	0.0	0.0	-	-	0.0	-	0.0
97.0	60.0	6.7	2.9	5.7	0.0	0.0	0.0	-	-	0.0	-	0.0
97.0	70.0	0.0	55.1	0.0	0.0	0.0	0.0	-	-	0.0	-	0.0
100.0	29.0	8.7	161.5	47.6	11.2	7.6	37.4	-	-	-	-	-
100.0	30.0	25.6	-	-	25.9	-	1152.4	-	-	-	-	-
100.0	33.0	29.4	79.0	165.2	-	62.9	-	-	-	-	-	-
100.0	35.0	-	-	-	190.3	8.1	46.3	-	-	-	-	-
100.0	40.0	2.5	3.0	262.9	87.7	0.0	10.6	-	-	-	-	-
100.0	45.0	-	-	-	30.2	0.0	0.0	-	-	-	-	-
100.0	50.0	0.0	0.0	3.3	0.0	0.0	0.0	-	-	-	-	-
100.0	55.0	-	-	-	48.0	-	0.0	-	-	-	-	-
100.0	60.0	0.0	3.3	0.0	0.0	0.0	0.0	-	-	-	-	-
100.0	65.0	-	-	-	0.0	9.4	0.0	-	-	-	-	-
100.0	70.0	0.0	16.8	0.0	0.0	-	0.0	-	-	-	-	-
100.0	80.0	0.0	3.0	0.0	0.0	-	0.0	-	-	-	-	-
100.0	90.0	-	3.1	0.0	0.0	-	0.0	-	-	-	-	-
103.0	30.0	2.9	313.3	26.4	0.0	9.9	9.0	-	-	-	-	-
103.0	35.0	0.0	219.6	13.7	4.8	0.0	0.0	-	-	-	-	-
103.0	40.0	11.4	37.0	0.0	6.0	0.0	0.0	-	-	-	-	-
103.0	45.0	-	-	-	5.8	-	0.0	-	-	-	-	-
103.0	50.0	0.0	0.0	3.2	50.1	-	0.0	-	-	-	-	-
103.0	55.0	-	-	-	44.1	-	0.0	-	-	-	-	-
103.0	60.0	0.0	0.0	13.7	125.5	-	0.0	-	-	-	-	-
107.0	32.0	0.0	297.0	0.0	18.8	47.5	38.2	-	-	-	-	-
107.0	35.0	0.0	411.6	0.0	0.0	11.3	0.0	-	-	-	-	-
107.0	40.0	0.0	69.0	0.0	0.0	53.4	0.0	-	-	-	-	-
107.0	45.0	-	-	-	0.0	36.0	0.0	-	-	-	-	-
107.0	50.0	0.0	221.1	0.0	0.0	6.6	0.0	-	-	-	-	-
110.0	33.0	0.0	148.7	484.0	23.8	6.4	0.0	451.5	0.0	-	-	-
110.0	35.0	10.9	307.4	26.8	64.9	0.0	103.7	39.8	10.8	-	-	-
110.0	40.0	5.5	35.9	0.0	20.0	0.0	34.4	0.0	0.0	-	-	-
110.0	45.0	-	-	-	0.0	0.0	76.8	-	-	-	-	-
110.0	50.0	0.0	1356.6	0.0	0.0	0.0	0.0	-	-	-	-	-
110.0	60.0	0.0	318.1	0.0	0.0	0.0	0.0	-	-	-	-	-
110.0	70.0	0.0	125.8	0.0	0.0	0.0	0.0	-	-	-	-	-
113.0	30.0	12.3	123.1	2344.2	134.3	0.0	270.9	224.2	107.4	-	-	-

TABLE 4. (cont.)

*Engraulis mordax* (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
113.0	35.0	3.6	61.2	873.0	40.0	42.6	0.0	27.1	3.2	0.0	-	-
113.0	40.0	5.9	11.5	154.9	2.4	5.6	0.0	0.0	0.0	2.5	-	-
113.0	45.0	-	-	3.2	-	299.4	0.0	0.0	-	-	-	-
113.0	50.0	11.0	79.3	96.0	0.0	0.0	0.0	-	-	-	-	-
113.0	55.0	-	-	293.5	0.0	0.0	0.0	-	-	-	-	-
113.0	60.0	0.0	197.3	1053.2	0.0	0.0	0.0	-	-	-	-	-
113.0	70.0	0.0	972.8	0.0	0.0	0.0	0.0	-	-	-	-	-
113.0	80.0	-	-	3.6	0.0	0.0	0.0	738.4	56.8	-	-	-
115.0	27.0	-	-	-	-	-	-	2572.8	55.2	-	-	-
115.0	30.0	-	-	-	-	-	-	37.9	16.8	-	-	-
115.0	35.0	-	-	-	-	-	-	7.0	16.7	-	-	-
115.0	40.0	-	-	-	-	-	-	749.4	6.9	-	-	-
117.0	26.0	0.0	154.4	49.5	516.8	497.2	797.9	20.6	749.4	0.0	-	-
117.0	30.0	16.5	15.5	182.3	270.0	110.5	6339.8	1299.2	265.2	0.0	-	-
117.0	35.0	65.3	155.5	310.3	409.2	94.0	18.7	27.6	0.0	22.7	-	-
117.0	40.0	21.0	2630.9	554.4	202.2	0.0	26.6	0.0	3.0	3.3	-	-
117.0	45.0	-	-	22.4	-	0.0	0.0	13.4	-	-	-	-
117.0	50.0	6.5	9.6	100.3	6.7	0.0	13.4	0.0	-	-	-	-
117.0	55.0	-	-	257.6	-	0.0	0.0	-	-	-	-	-
117.0	60.0	0.0	0.0	698.0	4.5	0.0	0.0	-	-	-	-	-
117.0	70.0	0.0	0.0	29.4	3.6	0.0	0.0	-	-	-	-	-
118.0	39.0	107.4	2520.0	7.9	41.0	0.0	0.0	708.0	5.8	-	-	-
118.5	25.0	-	-	-	-	-	-	97.7	0.0	-	-	-
118.5	30.0	-	-	-	-	-	-	334.0	0.0	-	-	-
118.5	35.0	-	-	-	-	-	-	-	-	-	-	-
119.0	33.0	12.2	65.5	10.3	230.9	680.2	0.0	593.3	390.7	0.0	-	-
120.0	25.0	25.7	19.8	282.0	3507.2	2730.0	1157.5	1674.4	1323.7	0.0	-	-
120.0	30.0	13.9	34.1	114.8	157.5	1039.5	181.5	1688.7	46.8	0.0	-	-
120.0	35.0	-	-	-	-	-	-	156.8	0.0	-	-	-
120.0	40.0	0.0	503.3	4.7	0.0	10.1	3511.2	1644.4	0.0	0.0	-	-
120.0	45.0	0.0	2243.5	3.9	1774.5	68.0	346.9	0.0	0.0	0.0	-	-
120.0	50.0	154.4	0.0	0.0	326.5	60.4	0.0	3.1	-	-	-	-
120.0	60.0	0.0	0.0	0.0	7.0	0.0	0.0	0.0	-	-	-	-
120.0	70.0	0.0	2.1	0.0	0.0	2.9	0.0	0.0	-	-	-	-
123.0	37.0	4.4	86.8	87.0	37.0	0.0	0.0	283.0	113.6	60.9	-	-
123.0	40.0	0.0	-	68.5	78.5	-	36.3	-	-	-	-	-
123.0	42.0	-	882.4	-	4.3	0.0	212.7	0.0	0.0	0.0	-	-
123.0	45.0	-	-	138.2	-	-	-	0.0	0.0	0.0	-	-
123.0	50.0	-	884.0	24.5	169.0	0.0	3.7	0.0	-	-	-	-
123.0	55.0	0.0	-	0.0	0.0	0.0	0.0	2.8	-	-	-	-
123.0	60.0	-	-	0.0	0.0	0.0	0.0	0.0	-	-	-	-
127.0	34.0	154.6	0.0	23.9	0.0	0.0	0.0	46.8	2.8	-	-	-
127.0	40.0	2.5	7.9	100.8	48.5	9.1	0.0	0.0	0.0	0.0	-	-
127.0	45.0	-	-	0.0	3.2	0.0	0.0	0.0	0.0	0.0	-	-
127.0	50.0	0.0	803.7	18.3	0.0	0.0	0.0	0.0	-	-	-	-
127.0	55.0	53.3	1722.6	33.7	-	0.0	65.8	-	-	-	-	-

TABLE 4. (cont.)

*Engraulis mordax* (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
127.0	60.0	-	11.3	0.0	0.0	15.2	0.0	-	-	-	-	-
130.0	30.0	79.4	60.0	57.8	6.1	0.0	0.0	640.8	4.3	-	-	-
130.0	35.0	34.9	3.0	2.9	0.0	53.5	0.0	229.1	0.0	-	-	-
130.0	40.0	0.0	30.8	0.0	3.0	0.0	0.0	36.7	0.0	-	-	-
130.0	50.0	4.3	186.9	2.8	0.0	0.0	6.3	-	-	-	-	-
130.0	60.0	-	29.2	5.6	0.0	3.4	2.7	-	-	-	-	-
133.0	25.0	358.4	46.6	0.0	2018.2	267.8	687.0	11.3	0.0	-	-	-
133.0	30.0	1056.0	80.6	0.0	225.5	167.4	47.5	0.0	0.0	-	-	-
133.0	40.0	3.7	22.3	0.0	301.8	0.0	125.6	-	-	-	-	-
133.0	50.0	-	52.3	-	40.1	0.0	0.0	-	-	-	-	-
133.0	60.0	-	984.5	-	-	0.0	-	-	-	-	-	-
137.0	23.0	17.6	19.1	507.5	98.8	97.7	47.7	526.0	0.0	-	-	-
137.0	30.0	382.7	2318.8	24.3	79.0	234.6	193.8	29.4	0.0	-	-	-
137.0	40.0	345.8	1154.3	3.2	12.7	342.0	0.0	-	-	-	-	-
137.0	50.0	-	0.0	-	10.0	0.0	0.0	-	-	-	-	-
140.0	30.0	7793.9	-	28.7	-	-	-	-	-	-	-	-
140.0	35.0	6008.5	-	3061.8	-	-	-	-	-	-	-	-
140.0	40.0	11.6	-	356.4	-	-	-	-	-	-	-	-
140.0	50.0	-	-	-	-	-	-	-	-	-	-	-
143.0	30.0	0.0	137.3	2700.8	-	-	-	-	-	-	-	-
143.0	35.0	0.0	86.7	105.2	-	-	-	-	-	-	-	-
143.0	40.0	-	0.0	28.9	-	-	-	-	-	-	-	-
143.0	60.0	-	6.9	-	-	-	-	-	-	-	-	-
147.0	25.0	0.0	45.7	9.6	-	-	-	-	-	-	-	-
147.0	30.0	0.0	118.0	0.0	-	-	-	-	-	-	-	-
150.0	19.0	4.9	5.9	0.0	-	-	-	-	-	-	-	-
150.0	25.0	0.0	12.6	0.0	-	-	-	-	-	-	-	-
157.0	50.0	0.0	0.0	3.1	-	-	-	-	-	-	-	-

*Argentina sialis*

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
77.0	50.0	-	-	0.0	0.0	-	3.0	-	-	-	-	0.0
82.0	47.0	0.0	0.0	0.0	0.0	14.9	0.0	-	0.0	-	0.0	0.0
83.0	43.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0	-	6.1	0.0
83.0	55.0	-	-	0.0	0.0	-	0.0	-	0.0	-	0.0	12.1
90.0	28.0	8.6	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
93.0	27.0	2.6	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
100.0	29.0	0.0	0.0	0.0	0.0	0.0	4.7	-	-	-	-	-
100.0	33.0	0.0	0.0	0.0	-	2.4	-	-	-	-	-	-
103.0	35.0	0.0	0.0	0.0	0.0	0.0	2.9	-	-	-	-	-
107.0	32.0	45.9	0.0	0.0	0.0	0.0	15.3	-	-	-	-	-
107.0	35.0	21.7	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
107.0	40.0	8.4	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
107.0	50.0	3.2	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-



TABLE 4. (cont.)

*Argentina sialis* (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
110.0	33.0	9.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-
110.0	35.0	23.7	0.0	0.0	0.0	0.0	69.1	5.0	0.0	-	-	-
110.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	8.6	0.0	-	-	-
113.0	30.0	0.0	0.0	0.0	4.6	0.0	0.0	0.0	0.0	-	-	-
113.0	40.0	0.0	0.0	0.0	5.6	0.0	0.0	0.0	0.0	-	-	-
113.0	50.0	5.5	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
113.0	60.0	0.0	2.7	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-
117.0	26.0	0.0	18.2	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-
117.0	30.0	0.0	12.4	0.0	0.0	10.2	24.4	0.0	0.0	-	-	-
117.0	35.0	5.2	17.3	57.0	0.0	0.0	0.0	0.0	0.0	-	-	-
117.0	40.0	0.0	0.0	2.7	0.0	0.0	0.0	6.0	0.0	-	-	-
117.0	45.0	-	0.0	-	0.0	0.0	0.0	-	-	-	-	-
117.0	50.0	3.2	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
117.0	60.0	3.2	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
118.0	39.0	39.2	31.4	-	0.0	0.0	0.0	-	-	-	-	-
119.0	33.0	0.0	103.2	20.1	17.4	0.0	28.3	-	-	-	-	-
120.0	25.0	3.2	47.0	11.0	0.0	0.0	0.0	0.0	0.0	-	-	-
120.0	30.0	5.6	0.0	90.0	42.7	0.0	0.0	0.0	0.0	-	-	-
120.0	50.0	3.2	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
120.0	55.0	0.0	0.0	2.1	0.0	0.0	0.0	0.0	0.0	-	-	-
123.0	37.0	0.0	2.9	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-
123.0	50.0	-	6.1	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-
127.0	34.0	0.0	0.0	15.1	0.0	0.0	0.0	0.0	0.0	-	-	-
127.0	40.0	0.0	0.0	12.1	0.0	0.0	0.0	0.0	0.0	-	-	-
127.0	50.0	0.0	0.0	5.5	0.0	0.0	0.0	0.0	0.0	-	-	-
130.0	30.0	0.0	0.0	0.0	18.2	0.0	0.0	0.0	0.0	-	-	-
130.0	35.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-
130.0	50.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-
130.0	50.0	0.0	0.0	0.0	2.9	0.0	0.0	0.0	0.0	-	-	-
133.0	30.0	48.0	20.2	0.0	8.2	0.0	2.5	0.0	0.0	-	-	-
137.0	30.0	4.3	18.6	48.5	0.0	5.1	0.0	0.0	0.0	-	-	-
137.0	40.0	0.0	12.3	0.0	0.0	0.0	0.0	-	-	-	-	-
140.0	30.0	0.0	-	17.2	-	-	-	-	-	-	-	-
140.0	35.0	7.2	-	0.0	-	-	-	-	-	-	-	-
150.0	30.0	0.0	-	2.1	-	-	-	-	-	-	-	-

*Microstoma microstoma*

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
80.0	70.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0	-	3.2	0.0
87.0	85.0	-	-	-	-	-	11.8	-	-	-	-	-
90.0	45.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	3.0	0.0	0.0
90.0	90.0	-	0.0	0.0	6.4	0.0	0.0	-	-	0.0	-	0.0
93.0	27.0	0.0	0.0	0.0	0.0	0.0	2.3	-	-	0.0	-	0.0
93.0	50.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	1.5	-	0.0
93.0	60.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	1.5	-	0.0

TABLE 4. (cont.)

*Microstoma microstoma* (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
97.0	45.0	-	0.0	-	3.8	-	0.0	-	-	0.0	-	0.0
97.0	90.0	-	12.8	-	0.0	0.0	0.0	-	-	-	-	-
100.0	35.0	-	-	-	0.0	2.7	0.0	-	-	-	-	-
100.0	80.0	0.0	0.0	0.0	0.0	-	4.5	-	-	-	-	-
100.0	90.0	-	0.0	6.4	0.0	0.0	0.0	-	-	-	-	-
107.0	40.0	3.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
107.0	50.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
107.0	60.0	6.4	0.0	0.0	0.0	0.0	5.1	-	-	-	-	-
110.0	55.0	-	0.0	-	0.0	0.0	0.0	0.0	-	-	-	-
117.0	40.0	0.0	0.0	2.7	0.0	0.0	0.0	0.0	-	-	-	-

*Nansenia candida*

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
50.0	50.0	-	-	-	0.0	3.6	-	-	-	-	-	-
60.0	57.0	-	-	0.0	-	2.6	0.0	-	-	-	-	-
67.0	80.0	-	-	6.7	-	-	0.0	-	-	-	-	-
70.0	60.0	-	-	10.8	0.0	-	0.0	-	-	-	-	-
70.0	90.0	-	-	0.0	1.1	-	0.0	-	-	-	-	-
83.0	80.0	-	6.2	0.0	1.2	-	0.0	-	-	-	-	-
83.0	90.0	-	2.6	0.0	0.0	0.0	0.0	-	-	-	-	-
87.0	60.0	0.0	0.0	0.0	0.0	0.0	4.0	-	0.0	0.0	0.0	0.0
90.0	55.0	0.0	0.0	8.7	0.0	0.0	0.0	-	-	0.0	0.0	0.0
97.0	90.0	-	0.0	0.0	0.0	6.4	0.0	-	-	-	-	-
100.0	95.0	-	-	-	4.0	-	-	-	-	-	-	-
107.0	85.0	-	-	-	5.9	0.0	-	-	-	-	-	-

*Nansenia crassa*

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
110.0	33.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-
110.0	35.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.4	-	-	-
113.0	35.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	-	-	-
113.0	45.0	-	0.0	-	0.0	9.1	0.0	-	-	-	-	-
113.0	60.0	0.0	0.0	0.0	0.0	0.0	12.5	-	-	-	-	-
113.0	70.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	-	-	-
117.0	35.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-
117.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0	0.0	-	-	-
117.0	55.0	-	0.0	-	8.2	0.0	0.0	-	-	-	-	-
117.0	80.0	-	0.0	3.0	0.0	0.0	0.0	-	-	-	-	-
120.0	50.0	0.0	0.0	0.0	0.0	0.0	3.1	-	-	-	-	-
120.0	55.0	0.0	0.0	0.0	0.0	0.0	2.8	-	-	-	-	-
120.0	70.0	0.0	2.9	0.0	0.0	0.0	0.0	-	-	-	-	-
123.0	40.0	0.0	3.3	0.0	0.0	0.0	0.0	-	-	-	-	-

TABLE 4. (cont.)

*Nansenia crassa* (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
123.0	42.0	0.0	-	2.1	0.0	8.2	0.0	0.0	0.0	-	-	-
123.0	45.0	0.0	0.0	-	-	-	-	3.0	0.0	-	-	-
123.0	50.0	0.0	6.1	0.0	0.0	0.0	0.0	-	-	-	-	-
123.0	60.0	0.0	3.7	2.6	0.0	0.0	0.0	-	-	-	-	-
127.0	40.0	0.0	0.0	0.0	3.0	0.0	6.7	0.0	0.0	-	-	-
127.0	55.0	0.0	0.0	-	9.0	0.0	0.0	-	-	-	-	-
127.0	60.0	0.0	0.0	3.3	0.0	0.0	0.0	-	-	-	-	-
130.0	35.0	0.0	0.0	2.9	0.0	0.0	0.0	0.0	0.0	-	-	-
130.0	40.0	0.0	0.0	0.0	0.0	3.6	0.0	0.0	0.0	-	-	-
130.0	50.0	0.0	5.7	0.0	0.0	0.0	0.0	-	-	-	-	-
140.0	35.0	0.0	-	2.2	0.0	0.0	0.0	-	-	-	-	-
147.0	40.0	0.0	-	3.9	-	-	-	-	-	-	-	-
153.0	50.0	0.0	-	4.3	-	-	-	-	-	-	-	-

*Bathylagus* spp.

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
140.0	35.0	12.4	0.0	0.0	-	-	-	-	-	-	-	-

*Bathylagus milleri*

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
40.0	50.0	-	-	-	5.6	0.0	-	-	-	-	-	-
60.0	55.0	-	-	3.4	0.0	0.0	0.0	-	-	-	-	-

*Bathylagus ochotensis*

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
40.0	40.0	-	-	-	24.0	0.0	-	-	-	-	-	-
40.0	45.0	-	-	-	18.6	0.0	-	-	-	-	-	-
40.0	50.0	-	-	-	11.2	16.5	-	-	-	-	-	-
40.0	60.0	-	-	-	95.0	0.0	-	-	-	-	-	-
40.0	90.0	-	-	-	91.3	0.0	-	-	-	-	-	-
43.0	42.0	-	-	-	17.6	0.0	-	-	-	-	-	-
43.0	50.0	-	-	-	18.3	23.7	-	-	-	-	-	-
43.0	60.0	-	-	-	58.2	0.0	-	-	-	-	-	-
47.0	55.0	-	-	-	0.0	23.2	-	-	-	-	-	-
47.0	60.0	-	-	-	39.1	10.2	-	-	-	-	-	-
50.0	50.0	-	-	-	11.6	0.0	-	-	-	-	-	-
50.0	55.0	-	-	-	9.3	5.9	-	-	-	-	-	-
50.0	60.0	-	-	-	15.6	4.4	-	-	-	-	-	-
50.0	70.0	-	-	-	8.3	0.0	-	-	-	-	-	-
50.0	80.0	-	-	-	0.0	3.1	-	-	-	-	-	-

TABLE 4. (cont.)

*Bathylagus ochotensis* (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
50.0	90.0	-	-	-	0.0	58.3	-	-	-	-	-	-
53.0	52.0	-	-	-	0.0	4.4	-	-	-	-	-	-
53.0	55.0	-	-	-	12.4	0.0	-	-	-	-	-	-
53.0	65.0	-	-	-	22.1	0.0	-	-	-	-	-	-
57.0	55.0	-	-	-	11.2	0.0	-	-	-	-	-	-
57.0	65.0	-	-	-	0.0	6.6	-	-	-	-	-	-
60.0	55.0	-	-	-	54.5	0.0	0.0	-	-	-	-	-
60.0	60.0	-	-	-	13.4	0.0	0.0	-	-	-	-	-
60.0	70.0	-	-	-	0.0	0.0	0.0	-	-	-	-	-
60.0	80.0	-	-	-	13.9	5.8	21.7	-	-	-	-	-
60.0	90.0	-	-	-	25.8	28.4	0.0	-	-	-	-	-
63.0	52.0	-	-	-	2.4	-	0.0	-	-	-	-	-
63.0	65.0	-	-	-	53.2	-	0.0	-	-	-	-	-
63.0	80.0	-	-	-	43.8	-	0.0	-	-	-	-	-
67.0	50.0	-	-	-	0.0	-	6.9	-	-	-	-	-
67.0	60.0	-	-	-	-	-	0.0	-	-	-	-	-
67.0	65.0	-	-	-	36.1	-	0.0	-	-	-	-	-
70.0	52.0	-	-	-	0.0	-	0.0	-	-	-	-	-
70.0	55.0	-	-	-	4.7	-	0.0	-	-	-	-	-
70.0	60.0	-	-	-	21.7	-	0.0	-	-	-	-	-
70.0	70.0	-	-	-	0.0	-	0.0	-	-	-	-	-
70.0	90.0	-	-	-	20.1	-	0.0	-	-	-	-	-
73.0	50.0	-	-	-	0.0	-	0.0	-	-	-	-	-
77.0	50.0	-	-	-	3.3	-	0.0	-	-	-	-	-
77.0	55.0	-	-	-	12.7	-	0.0	-	-	-	-	-
77.0	55.0	-	-	-	0.0	-	0.0	-	-	-	-	-
77.0	65.0	-	-	-	12.2	-	0.0	-	-	-	-	-
77.0	80.0	-	-	-	28.3	-	0.0	-	-	-	-	-
80.0	51.0	-	-	-	24.9	-	0.0	-	0.0	-	0.0	0.0
80.0	55.0	-	-	-	0.0	-	0.0	-	0.0	-	0.0	0.0
80.0	60.0	-	-	-	6.5	-	0.0	-	0.0	-	0.0	0.0
80.0	70.0	-	-	-	0.0	-	0.0	-	0.0	-	0.0	0.0
80.0	80.0	-	-	-	20.3	-	5.8	-	0.0	-	0.0	0.0
80.0	90.0	-	-	-	3.7	-	0.0	-	0.0	-	0.0	0.0
82.0	47.0	-	-	-	7.3	-	0.0	-	0.0	-	0.0	0.0
83.0	51.0	-	-	-	0.0	-	0.0	-	0.0	-	0.0	0.0
83.0	60.0	-	-	-	2.9	-	0.0	-	0.0	-	0.0	0.0
83.0	70.0	-	-	-	6.8	-	0.0	-	0.0	-	0.0	0.0
83.0	80.0	-	-	-	8.1	-	0.0	-	0.0	-	0.0	0.0
83.0	90.0	-	-	-	1.2	-	0.0	-	0.0	-	0.0	0.0
87.0	36.0	-	-	-	0.0	-	0.0	-	0.0	-	0.0	0.0
87.0	50.0	-	-	-	0.0	-	0.0	-	0.0	-	0.0	0.0
87.0	60.0	-	-	-	0.0	-	0.0	-	0.0	-	0.0	0.0
87.0	65.0	-	-	-	7.6	-	0.0	-	0.0	-	0.0	0.0
87.0	70.0	-	-	-	10.8	-	0.0	-	0.0	-	0.0	0.0
87.0	75.0	-	-	-	19.4	-	0.0	-	0.0	-	0.0	0.0
87.0	75.0	-	-	-	18.4	-	0.0	-	0.0	-	0.0	0.0

TABLE 4. (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
87.0	80.0	-	0.0	7.2	3.1	0.0	0.0	-	-	-	-	-
87.0	90.0	-	2.9	2.9	0.0	0.0	0.0	-	-	0.0	-	0.0
90.0	28.0	8.2	0.0	1.9	0.0	0.0	0.0	-	-	0.0	-	0.0
90.0	30.0	22.6	3.1	0.0	0.0	0.0	0.0	-	-	0.0	0.0	0.0
90.0	37.0	13.6	0.0	3.3	0.0	0.0	0.0	-	-	0.0	0.0	0.0
90.0	45.0	26.8	19.4	5.5	0.0	0.0	0.0	-	-	0.0	0.0	5.9
90.0	55.0	26.0	0.0	52.0	0.0	0.0	0.0	-	-	0.0	0.0	0.0
90.0	60.0	17.9	0.0	15.9	0.0	0.0	0.0	-	-	0.0	0.0	0.0
90.0	65.0	8.0	0.0	-	4.8	0.0	0.0	-	-	0.0	-	0.0
90.0	70.0	0.0	0.0	0.0	0.0	0.0	3.1	-	-	0.0	-	0.0
90.0	75.0	0.0	0.0	0.0	0.0	12.7	0.0	-	-	0.0	-	0.0
90.0	80.0	0.0	0.0	0.0	9.5	0.0	0.0	-	-	0.0	-	0.0
90.0	90.0	-	5.5	14.4	6.4	0.0	0.0	-	-	0.0	-	0.0
90.0	95.0	-	-	-	6.4	-	-	-	-	-	-	-
93.0	27.0	2.3	0.0	0.0	0.0	0.0	0.0	-	-	0.0	-	0.0
93.0	30.0	0.0	0.0	0.0	0.0	3.3	0.0	-	-	0.0	-	0.0
93.0	40.0	0.0	5.5	0.0	0.0	0.0	0.0	-	-	0.0	-	0.0
93.0	45.0	0.0	-	-	5.7	0.0	0.0	-	-	0.0	-	0.0
93.0	50.0	0.0	0.0	0.0	10.6	0.0	0.0	-	-	0.0	-	0.0
93.0	55.0	-	-	-	9.3	0.0	0.0	-	-	0.0	-	0.0
93.0	60.0	3.0	0.0	6.1	0.0	5.7	0.0	-	-	0.0	-	0.0
93.0	70.0	0.0	0.0	0.0	11.2	0.0	0.0	-	-	0.0	-	0.0
93.0	75.0	-	-	-	13.5	4.7	0.0	-	-	-	-	-
93.0	80.0	-	2.3	0.0	0.0	0.0	0.0	-	-	-	-	-
93.0	90.0	-	0.0	4.6	0.0	0.0	0.0	-	-	-	-	-
97.0	30.0	0.0	2.2	0.0	0.0	0.0	0.0	-	-	0.0	-	0.0
97.0	40.0	0.0	0.0	0.0	0.0	2.0	0.0	-	-	0.0	-	0.0
97.0	45.0	5.7	0.0	0.0	0.0	0.0	0.0	-	-	0.0	-	0.0
97.0	50.0	3.4	0.0	0.0	0.0	0.0	0.0	-	-	0.0	-	0.0
97.0	60.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	0.0	-	0.0
97.0	70.0	0.0	0.0	25.5	0.0	0.0	17.2	-	-	-	-	-
97.0	90.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
100.0	29.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
100.0	40.0	2.5	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
100.0	60.0	2.7	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
100.0	70.0	0.0	11.2	0.0	0.0	0.0	0.0	-	-	-	-	-
100.0	80.0	0.0	0.0	3.7	0.0	0.0	0.0	-	-	-	-	-
100.0	85.0	-	-	-	3.3	-	-	-	-	-	-	-
100.0	90.0	-	0.0	6.4	0.0	0.0	0.0	-	-	-	-	-
100.0	100.0	-	-	-	8.9	-	-	-	-	-	-	-
103.0	50.0	0.0	0.0	0.0	3.1	0.0	0.0	-	-	-	-	-
103.0	60.0	0.0	0.0	0.0	6.1	0.0	0.0	-	-	-	-	-
103.0	70.0	-	0.0	3.0	0.0	0.0	0.0	-	-	-	-	-
103.0	95.0	-	-	-	2.4	-	-	-	-	-	-	-
107.0	35.0	21.7	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-

TABLE 4. (cont.)

*Bathylagus ochotensis* (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
107.0	40.0	8.4	3.0	0.0	3.3	0.0	0.0	-	-	-	-	-
107.0	55.0	-	3.5	0.0	12.0	0.0	0.0	-	-	-	-	-
107.0	60.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
110.0	35.0	11.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-
110.0	40.0	12.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-
110.0	50.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
113.0	55.0	-	0.0	0.0	9.2	0.0	0.0	-	-	-	-	-

*Bathylagus wesethi*

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
70.0	80.0	-	-	0.0	0.0	-	5.4	-	-	-	-	-
73.0	90.0	-	-	0.0	0.0	-	6.8	-	-	-	-	-
80.0	70.0	0.0	0.0	0.0	0.0	0.0	11.6	-	0.0	-	0.0	0.0
80.0	80.0	0.0	0.0	0.0	0.0	13.1	5.8	-	0.0	-	0.0	3.1
80.0	90.0	0.0	0.0	13.3	0.0	6.9	0.0	-	0.0	-	5.9	3.0
83.0	70.0	-	0.0	2.8	0.0	8.1	0.0	-	-	-	-	-
83.0	80.0	-	0.0	1.2	0.0	3.0	0.0	-	-	-	-	-
83.0	90.0	-	0.0	0.0	0.0	0.0	11.1	-	-	-	-	-
87.0	85.0	-	0.0	2.9	0.0	-	0.0	-	-	-	-	-
90.0	70.0	0.0	0.0	-	6.1	0.0	35.5	-	-	0.0	-	0.0
90.0	75.0	-	-	0.0	0.0	0.0	0.0	-	-	-	-	-
90.0	85.0	-	-	0.0	0.0	13.1	6.1	-	-	-	-	-
93.0	85.0	-	-	0.0	0.0	6.9	9.4	-	-	-	-	-
93.0	90.0	-	0.0	0.0	0.0	8.1	0.0	-	-	-	-	-
97.0	50.0	0.0	0.0	0.0	0.0	3.0	0.0	-	-	0.0	-	0.0
97.0	55.0	-	0.0	0.0	0.0	0.0	47.8	-	-	0.0	-	0.0
97.0	60.0	-	0.0	0.0	0.0	12.3	0.0	-	-	0.0	-	0.0
97.0	65.0	-	0.0	0.0	0.0	41.7	19.7	-	-	-	-	-
97.0	70.0	-	0.0	0.0	0.0	48.2	17.2	-	-	-	-	-
97.0	75.0	-	0.0	3.9	0.0	21.0	17.1	-	-	-	-	-
97.0	80.0	-	0.0	0.0	0.0	10.6	0.0	-	-	-	-	-
97.0	85.0	-	0.0	0.0	0.0	4.6	12.3	-	-	-	-	-
100.0	50.0	0.0	0.0	25.5	0.0	6.4	23.4	-	-	-	-	-
100.0	55.0	-	0.0	0.0	0.0	0.0	8.8	-	-	-	-	-
100.0	65.0	-	-	0.0	0.0	0.0	69.8	-	-	-	-	-
100.0	70.0	-	0.0	0.0	0.0	0.0	39.5	-	-	-	-	-
100.0	75.0	-	0.0	0.0	0.0	-	53.7	-	-	-	-	-
100.0	80.0	-	0.0	0.0	0.0	-	8.6	-	-	-	-	-
100.0	85.0	-	0.0	0.0	0.0	-	13.6	-	-	-	-	-
100.0	90.0	-	0.0	0.0	6.5	-	0.0	-	-	-	-	-
103.0	45.0	-	0.0	6.4	2.7	-	0.0	-	-	-	-	-
103.0	50.0	0.0	3.2	0.0	0.0	-	44.0	-	-	-	-	-
103.0	70.0	-	3.4	0.0	0.0	-	0.0	-	-	-	-	-

TABLE 4. (cont.)

*Bathylagus wesethi* (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
103.0	80.0	-	1.9	3.3	6.2	-	0.0	-	-	-	-	-
103.0	85.0	-	-	-	0.0	-	17.7	-	-	-	-	-
103.0	90.0	-	3.2	0.0	0.0	-	0.0	-	-	-	-	-
107.0	40.0	0.0	0.0	0.0	9.4	0.0	64.8	-	-	-	-	-
107.0	45.0	-	-	-	0.0	0.0	41.0	-	-	-	-	-
107.0	50.0	0.0	3.3	0.0	0.0	0.0	0.0	-	-	-	-	-
107.0	60.0	0.0	3.2	0.0	0.0	0.0	17.1	-	-	-	-	-
107.0	65.0	-	-	-	5.3	0.0	-	-	-	-	-	-
107.0	70.0	-	10.6	0.0	21.9	51.0	34.6	-	-	-	-	-
107.0	80.0	-	3.0	0.0	5.3	0.0	8.0	-	-	-	-	-
107.0	85.0	-	-	-	5.9	25.3	-	-	-	-	-	-
107.0	90.0	-	9.8	3.0	19.6	52.8	2.5	-	-	-	-	-
110.0	33.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-
110.0	40.0	0.0	0.0	0.0	5.0	0.0	4.5	0.0	0.0	-	-	-
110.0	50.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-
110.0	55.0	-	-	-	0.0	0.0	15.2	-	-	-	-	-
110.0	60.0	0.0	0.0	0.0	0.0	0.0	18.8	-	-	-	-	-
110.0	65.0	-	-	-	14.2	3.4	-	-	-	-	-	-
110.0	70.0	0.0	0.0	10.3	0.0	0.0	2.4	-	-	-	-	-
110.0	75.0	-	-	-	18.2	0.0	-	-	-	-	-	-
110.0	80.0	0.0	15.2	4.8	42.9	0.0	8.6	-	-	-	-	-
110.0	85.0	-	-	-	4.7	13.7	-	-	-	-	-	-
113.0	30.0	-	0.0	0.0	0.0	1.8	0.0	0.0	0.0	-	-	-
113.0	35.0	0.0	0.0	0.0	0.0	0.0	9.0	0.0	0.0	-	-	-
113.0	40.0	0.0	28.2	0.0	0.0	0.0	14.4	3.2	0.0	-	-	-
113.0	60.0	0.0	0.0	43.4	0.0	0.0	0.0	3.1	0.0	-	-	-
113.0	70.0	0.0	0.0	0.0	0.0	0.0	21.6	-	-	-	-	-
113.0	80.0	-	0.0	4.4	0.0	0.0	0.0	-	-	-	-	-
117.0	26.0	0.0	0.0	0.0	0.0	0.0	0.0	14.8	0.0	-	-	-
117.0	35.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	0.0	-	-	-
117.0	50.0	0.0	0.0	0.0	0.0	0.0	13.7	-	-	-	-	-
117.0	55.0	-	-	-	49.4	0.0	0.0	-	-	-	-	-
117.0	60.0	0.0	0.0	2.3	0.0	0.0	0.0	-	-	-	-	-
117.0	70.0	0.0	3.3	7.2	34.3	0.0	0.0	-	-	-	-	-
117.0	75.0	-	-	-	30.6	0.0	0.0	-	-	-	-	-
117.0	80.0	-	0.0	15.1	15.8	0.0	0.0	-	-	-	-	-
120.0	25.0	4.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-
120.0	50.0	0.0	0.0	0.0	0.0	3.7	28.3	0.0	0.0	-	-	-
120.0	55.0	0.0	6.0	0.0	0.0	0.0	34.1	-	-	-	-	-
120.0	70.0	3.2	5.8	7.8	0.0	0.0	0.0	-	-	-	-	-
120.0	80.0	-	0.0	53.0	18.8	0.0	0.0	-	-	-	-	-
123.0	40.0	-	0.0	2.4	-	3.6	-	-	-	-	-	-
123.0	42.0	0.0	-	0.0	9.8	0.0	0.0	0.0	0.0	-	-	-
123.0	50.0	-	0.0	5.1	12.2	0.0	5.2	0.0	0.0	-	-	-
123.0	55.0	0.0	13.4	-	13.2	0.0	5.6	-	-	-	-	-
123.0	60.0	-	3.7	0.0	10.0	3.1	3.1	-	-	-	-	-

TABLE 4. (cont.)

*Bathylagus wesethi* (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
127.0	40.0	0.0	0.0	0.0	0.0	0.0	3.3	0.0	0.0	-	-	-
127.0	45.0	-	0.0	-	38.6	0.0	0.0	6.7	0.0	-	-	-
127.0	50.0	0.0	0.0	0.0	3.1	0.0	0.0	-	-	-	-	-
127.0	60.0	-	0.0	10.0	0.0	0.0	6.1	-	-	-	-	-
130.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6	0.0	-	-	-
130.0	35.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.2	-	-	-
130.0	40.0	0.0	0.0	0.0	0.0	3.6	0.0	0.0	0.0	-	-	-
130.0	45.0	-	-	-	-	-	-	3.5	43.7	-	-	-
130.0	50.0	0.0	0.0	0.0	0.0	0.0	3.1	-	-	-	-	-
130.0	60.0	0.0	0.0	0.0	0.0	3.4	0.0	-	-	-	-	-
133.0	30.0	0.0	0.0	0.0	0.0	0.0	5.0	0.0	0.0	-	-	-
133.0	40.0	0.0	0.0	5.8	0.0	0.0	0.0	-	-	-	-	-
133.0	50.0	-	0.0	26.7	0.0	0.0	0.0	-	-	-	-	-
137.0	40.0	0.0	0.0	3.2	0.0	0.0	0.0	-	-	-	-	-
150.0	40.0	2.3	-	0.0	-	-	-	-	-	-	-	-
153.0	16.0	8.5	-	0.0	-	-	-	-	-	-	-	-
153.0	20.0	15.0	-	0.0	-	-	-	-	-	-	-	-
153.0	30.0	3.5	-	0.0	-	-	-	-	-	-	-	-
157.0	10.0	0.0	-	-	-	-	-	-	-	-	-	-
157.0	40.0	-	-	5.0	-	-	-	-	-	-	-	-

*Leuroglossus schmidti*

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
60.0	60.0	-	-	6.7	0.0	1.9	0.0	-	-	-	-	-
70.0	60.0	-	-	10.8	0.0	-	0.0	-	-	-	-	-

*Leuroglossus stilbius*

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
57.0	55.0	-	-	-	5.6	0.0	-	-	-	-	-	-
60.0	57.0	-	-	0.0	27.2	0.0	0.0	-	-	-	-	-
60.0	57.0	-	-	3.1	-	0.0	-	-	-	-	-	-
60.0	60.0	-	-	20.0	23.0	0.0	0.0	-	-	-	-	-
60.0	70.0	-	-	5.9	0.0	2.9	0.0	-	-	-	-	-
67.0	50.0	-	-	0.0	3.1	-	0.0	-	-	-	-	-
67.0	55.0	-	-	0.0	2.7	-	21.6	-	-	-	-	-
67.0	65.0	-	-	14.4	7.7	-	-	-	-	-	-	-
67.0	70.0	-	-	-	-	-	13.2	-	-	-	-	-
70.0	52.0	-	-	24.5	34.2	-	0.0	-	-	-	-	-
70.0	55.0	-	-	71.1	7.3	-	0.0	-	-	-	-	-
70.0	60.0	-	-	108.4	1.6	-	0.0	-	-	-	-	-
70.0	80.0	-	-	0.0	5.2	-	0.0	-	-	-	-	-
70.0	90.0	-	-	64.0	0.0	-	0.0	-	-	-	-	-



TABLE 4. (cont.)

*Leuroglossus stilbius* (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
73.0	50.0	-	-	3.3	0.0	-	0.0	-	-	-	-	-
73.0	80.0	-	-	-	0.0	-	7.1	-	-	-	-	-
77.0	55.0	-	-	38.2	9.4	-	16.9	-	-	-	-	-
77.0	60.0	-	-	-	11.0	-	24.6	-	-	-	-	-
77.0	65.0	-	-	55.1	-	-	-	-	-	-	-	-
77.0	70.0	-	-	-	3.0	-	0.0	-	-	-	-	-
77.0	80.0	-	-	-	74.8	-	0.0	-	-	-	-	-
80.0	51.0	-	-	4.7	1.0	-	0.0	-	0.0	-	3.1	0.0
80.0	55.0	1.6	9.2	29.1	0.0	-	0.0	-	0.0	-	0.0	0.0
80.0	60.0	0.0	64.6	16.5	1.6	-	0.0	-	0.0	-	0.0	0.0
80.0	70.0	6.1	19.1	0.0	3.5	-	5.8	-	0.0	-	0.0	0.0
80.0	80.0	0.0	11.8	4.8	0.0	-	0.0	-	0.0	-	0.0	0.0
80.0	90.0	0.0	12.3	9.0	0.0	-	0.0	-	0.0	-	0.0	0.0
82.0	47.0	7.8	293.0	6.1	9.9	5.0	0.0	-	0.0	-	6.2	11.7
83.0	40.0	-	0.8	0.0	2.8	-	0.0	-	0.0	-	0.0	0.0
83.0	43.0	101.0	2.8	0.0	7.2	-	0.0	-	0.0	-	0.0	0.0
83.0	51.0	0.0	16.0	2.9	34.9	-	0.0	-	0.0	-	0.0	0.0
83.0	55.0	-	-	59.0	26.9	-	0.0	-	5.5	-	0.0	0.0
83.0	60.0	0.0	23.8	13.6	13.9	-	5.7	-	0.0	-	2.9	0.0
83.0	70.0	-	2.7	16.2	0.0	-	0.0	-	0.0	-	-	-
83.0	80.0	-	6.2	0.0	0.0	-	0.0	-	-	-	-	-
83.0	90.0	-	10.4	0.0	0.0	-	0.0	-	-	-	-	-
87.0	36.0	73.9	14.8	16.5	27.8	0.0	2.6	-	0.0	-	0.0	0.0
87.0	40.0	210.0	12.8	35.8	18.1	9.8	0.0	-	0.0	-	0.0	0.0
87.0	45.0	-	-	-	0.0	10.8	0.0	-	0.0	-	0.0	0.0
87.0	50.0	80.9	6.7	2.6	16.2	0.0	0.0	-	0.0	-	0.0	0.0
87.0	55.0	-	-	15.3	0.0	108.0	2.3	-	0.0	-	0.0	0.0
87.0	60.0	28.9	0.0	0.0	0.0	17.2	4.0	-	0.0	-	0.0	0.0
87.0	65.0	-	-	7.1	5.4	0.0	0.0	-	-	-	-	-
87.0	70.0	-	-	0.0	4.8	11.0	0.0	-	-	-	-	-
87.0	75.0	-	-	0.0	16.4	0.0	0.0	-	-	-	-	-
87.0	80.0	-	-	0.0	3.1	0.0	0.0	-	-	-	-	-
87.0	90.0	-	-	2.9	0.0	0.0	0.0	-	-	-	-	-
90.0	28.0	215.7	58.5	15.5	0.0	0.0	0.0	-	-	0.0	-	0.0
90.0	30.0	157.9	34.4	17.6	25.2	28.8	0.0	-	-	0.0	-	0.0
90.0	37.0	2657.8	56.8	85.8	10.7	14.3	12.6	-	-	0.0	-	0.0
90.0	45.0	376.7	162.0	66.0	104.0	25.4	0.0	-	-	0.0	-	0.0
90.0	50.0	-	-	-	41.0	17.6	0.0	-	-	0.0	-	11.3
90.0	55.0	26.2	183.0	181.9	0.0	18.0	2.6	-	-	0.0	-	0.0
90.0	60.0	36.0	0.0	23.8	0.0	0.0	0.0	-	-	0.0	-	0.0
90.0	65.0	-	-	-	16.7	0.0	11.6	-	-	0.0	-	0.0
90.0	70.0	67.8	12.0	7.1	0.0	0.0	0.0	-	-	0.0	-	0.0
90.0	75.0	-	-	-	12.8	10.8	0.0	-	-	-	-	-
90.0	80.0	0.0	6.3	3.1	38.1	2.7	0.0	-	-	0.0	-	0.0
90.0	90.0	-	27.4	3.6	25.7	0.0	0.0	-	-	0.0	-	0.0
90.0	100.0	-	-	-	9.1	-	-	-	-	-	-	-

TABLE 4. (cont.)

*Leuroglossus stilbius* (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
93.0	27.0	232.2	2.3	0.0	0.0	0.0	0.0	-	-	0.0	-	0.0
93.0	30.0	97.7	42.0	8.2	12.0	3.3	0.0	-	-	0.0	-	0.0
93.0	35.0	-	-	-	55.8	9.7	0.0	-	-	0.0	-	0.0
93.0	40.0	66.9	27.5	43.8	18.6	33.1	0.0	-	-	0.0	-	0.0
93.0	45.0	-	-	-	42.5	50.0	0.0	-	-	0.0	-	0.0
93.0	50.0	0.0	13.6	16.9	43.5	5.7	0.0	-	-	0.0	-	0.0
93.0	55.0	-	-	-	9.3	7.7	0.0	-	-	0.0	-	0.0
93.0	60.0	-	56.8	163.0	12.2	11.4	0.0	-	-	0.0	-	0.0
93.0	65.0	-	-	-	0.0	0.0	14.3	-	-	-	-	-
93.0	70.0	-	3.3	5.6	0.0	20.4	0.0	-	-	-	-	-
93.0	75.0	-	-	-	6.8	4.7	0.0	-	-	-	-	-
93.0	80.0	-	-	2.3	0.0	12.5	0.0	-	-	-	-	-
93.0	85.0	-	-	0.0	13.9	0.0	0.0	-	-	-	-	-
93.0	90.0	-	-	0.0	5.9	0.0	0.0	-	-	0.0	-	0.0
97.0	30.0	14.7	6.5	10.9	0.0	0.0	0.0	-	-	0.0	-	0.0
97.0	32.0	201.3	10.9	11.9	52.4	0.0	0.0	-	-	0.0	-	0.0
97.0	40.0	36.4	48.8	42.3	0.0	24.5	2.4	-	-	0.0	-	0.0
97.0	45.0	-	-	-	19.1	-	0.0	-	-	0.0	-	0.0
97.0	50.0	12.5	195.2	23.6	28.8	0.0	0.0	-	-	0.0	-	0.0
97.0	55.0	-	-	-	15.4	9.8	23.9	-	-	0.0	-	0.0
97.0	60.0	-	16.9	35.0	11.3	0.0	0.0	-	-	0.0	-	0.0
97.0	65.0	-	-	-	21.0	0.0	0.0	-	-	-	-	-
97.0	70.0	-	8.6	18.4	0.0	0.0	0.0	-	-	-	-	-
97.0	80.0	-	-	0.0	4.2	0.0	0.0	-	-	-	-	-
97.0	90.0	-	-	0.0	12.8	0.0	0.0	-	-	-	-	-
100.0	29.0	9.9	5.8	0.0	0.0	7.6	0.0	-	-	-	-	-
100.0	30.0	12.8	-	-	5.6	-	0.0	-	-	-	-	-
100.0	33.0	-	117.4	30.4	100.4	24.2	0.0	-	-	-	-	-
100.0	35.0	-	-	-	-	0.0	0.0	-	-	-	-	-
100.0	40.0	0.0	12.6	87.6	97.7	0.0	0.0	-	-	-	-	-
100.0	45.0	-	-	-	72.5	0.0	0.0	-	-	-	-	-
100.0	50.0	63.9	3.3	15.1	36.6	0.0	0.0	-	-	-	-	-
100.0	60.0	0.0	5.5	3.3	0.0	5.7	0.0	-	-	-	-	-
100.0	70.0	0.0	0.0	11.2	0.0	-	0.0	-	-	-	-	-
100.0	80.0	0.0	0.0	5.9	0.0	-	0.0	-	-	-	-	-
100.0	90.0	-	-	3.0	0.0	-	0.0	-	-	-	-	-
103.0	30.0	9.1	37.7	0.0	0.0	0.0	0.0	-	-	-	-	-
103.0	35.0	34.8	76.3	80.9	3.4	0.0	2.9	-	-	-	-	-
103.0	40.0	16.6	45.6	37.0	6.0	0.0	0.0	-	-	-	-	-
103.0	45.0	-	-	-	11.7	-	0.0	-	-	-	-	-
103.0	50.0	0.0	50.2	0.0	40.7	-	0.0	-	-	-	-	-
103.0	55.0	-	-	-	18.9	-	0.0	-	-	-	-	-
103.0	60.0	0.0	0.0	0.0	15.3	-	0.0	-	-	-	-	-
103.0	70.0	-	-	1.7	0.0	-	0.0	-	-	-	-	-
103.0	80.0	-	-	3.9	0.0	-	0.0	-	-	-	-	-
103.0	90.0	-	-	0.0	0.0	-	0.0	-	-	-	-	-
107.0	32.0	0.0	18.1	36.3	0.0	3.7	0.0	-	-	-	-	-

TABLE 4. (cont.)

*Leuroglossus stilbius* (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
107.0	35.0	58.7	126.0	15.5	0.0	0.0	0.0	-	-	-	-	-
107.0	40.0	3.0	13.8	3.3	0.0	0.0	0.0	-	-	-	-	-
107.0	50.0	89.3	3.3	4.5	0.0	6.6	0.0	-	-	-	-	-
107.0	55.0	-	-	-	12.0	0.0	0.0	-	-	-	-	-
107.0	60.0	7.1	3.2	0.0	6.9	0.0	0.0	-	-	-	-	-
110.0	33.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-
110.0	35.0	10.9	5.6	65.6	0.0	0.0	0.0	0.0	0.0	-	-	-
110.0	40.0	25.8	6.5	16.7	0.0	0.0	0.0	0.0	0.0	-	-	-
110.0	50.0	0.0	22.8	0.0	0.0	0.0	0.0	-	-	-	-	-
110.0	60.0	0.0	44.6	20.9	0.0	0.0	0.0	-	-	-	-	-
110.0	70.0	0.0	17.2	0.0	0.0	0.0	0.0	-	-	-	-	-
113.0	30.0	0.0	4.3	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-
113.0	35.0	5.6	11.6	22.9	21.3	0.0	0.0	0.0	0.0	-	-	-
113.0	40.0	11.5	42.2	24.3	11.2	0.0	0.0	0.0	0.0	-	-	-
113.0	45.0	-	16.1	-	39.9	0.0	0.0	-	-	-	-	-
113.0	50.0	42.7	48.0	0.0	0.0	0.0	0.0	-	-	-	-	-
113.0	55.0	-	30.7	-	0.0	0.0	0.0	-	-	-	-	-
113.0	60.0	32.9	92.5	0.0	0.0	0.0	0.0	-	-	-	-	-
113.0	70.0	52.7	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
113.0	80.0	-	25.5	0.0	0.0	0.0	0.0	-	-	-	-	-
117.0	30.0	0.0	5.9	35.0	0.0	0.0	0.0	0.0	0.0	-	-	-
117.0	35.0	5.8	0.0	10.4	0.0	0.0	0.0	0.0	0.0	-	-	-
117.0	40.0	60.3	5.0	26.6	0.0	0.0	0.0	0.0	0.0	-	-	-
117.0	45.0	-	6.4	-	0.0	0.0	0.0	-	-	-	-	-
117.0	50.0	19.1	35.4	9.0	0.0	0.0	0.0	-	-	-	-	-
117.0	55.0	-	54.2	-	8.2	0.0	0.0	-	-	-	-	-
117.0	60.0	2.5	0.0	4.5	0.0	0.0	0.0	-	-	-	-	-
117.0	70.0	3.8	42.5	3.6	0.0	0.0	0.0	-	-	-	-	-
118.0	39.0	84.0	15.7	-	20.5	0.0	0.0	-	-	-	-	-
119.0	33.0	0.0	5.2	0.0	52.3	0.0	0.0	-	-	-	-	-
120.0	30.0	0.0	0.0	15.0	14.2	0.0	0.0	0.0	0.0	-	-	-
120.0	40.0	0.0	0.0	2.3	0.0	0.0	0.0	0.0	0.0	-	-	-
120.0	45.0	139.8	31.2	56.3	10.7	7.1	0.0	0.0	0.0	-	-	-
120.0	50.0	0.0	0.0	9.2	36.2	0.0	0.0	-	-	-	-	-
120.0	55.0	0.0	0.0	4.3	23.9	0.0	0.0	-	-	-	-	-
120.0	60.0	0.0	10.9	3.6	0.0	0.0	0.0	-	-	-	-	-
120.0	70.0	0.0	0.0	0.0	5.8	0.0	0.0	-	-	-	-	-
123.0	37.0	0.0	66.7	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-
123.0	40.0	17.0	153.2	2.4	-	29.0	-	-	-	-	-	-
123.0	42.0	0.0	-	8.5	0.0	98.2	0.0	0.0	0.0	-	-	-
123.0	45.0	-	69.1	-	-	-	-	0.0	0.0	-	-	-
123.0	50.0	0.0	6.1	10.2	0.0	7.4	0.0	0.0	0.0	-	-	-
123.0	60.0	-	0.0	2.6	0.0	0.0	0.0	-	-	-	-	-
123.0	70.0	0.0	0.0	45.2	30.4	0.0	0.0	0.0	0.0	-	-	-
127.0	34.0	0.0	71.5	72.7	3.0	22.0	0.0	0.0	0.0	-	-	-
127.0	45.0	-	6.1	-	67.6	3.8	0.0	0.0	0.0	-	-	-

TABLE 4. (cont.)

*Leuroglossus stilbius* (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
127.0	50.0	143.8	7.3	0.0	49.4	0.0	0.0	-	-	-	-	-
127.0	55.0	94.0	2.8	-	3.0	0.0	0.0	-	-	-	-	-
127.0	60.0	-	19.8	0.0	0.0	0.0	0.0	-	-	-	-	-
130.0	30.0	0.0	0.0	14.4	6.1	0.0	0.0	0.0	0.0	-	-	-
130.0	35.0	0.0	18.1	37.2	3.1	0.0	0.0	0.0	0.0	-	-	-
130.0	40.0	0.0	49.3	2.9	6.0	7.2	0.0	0.0	0.0	-	-	-
130.0	50.0	0.0	14.3	19.6	11.7	21.8	0.0	-	-	-	-	-
130.0	60.0	0.0	0.0	0.0	0.0	41.0	0.0	-	-	-	-	-
133.0	25.0	0.0	0.0	5.7	19.0	0.0	0.0	0.0	0.0	-	-	-
133.0	30.0	0.0	0.0	0.0	4.1	17.9	0.0	0.0	0.0	-	-	-
133.0	40.0	0.0	8.4	0.0	4.3	0.0	12.6	-	-	-	-	-
133.0	50.0	-	35.8	0.0	20.0	0.0	0.0	-	-	-	-	-
133.0	60.0	-	6.5	-	-	-	-	-	-	-	-	-
137.0	30.0	0.0	6.2	97.0	19.7	0.0	10.2	0.0	0.0	-	-	-
137.0	40.0	10.2	49.1	3.2	9.5	27.0	0.0	-	-	-	-	-
137.0	50.0	-	3.4	-	0.0	0.0	0.0	-	-	-	-	-
140.0	35.0	7.2	-	13.4	-	-	-	-	-	-	-	-
140.0	40.0	6.0	-	5.4	-	-	-	-	-	-	-	-
143.0	30.0	0.0	-	10.0	-	-	-	-	-	-	-	-
143.0	40.0	0.0	-	24.4	-	-	-	-	-	-	-	-
147.0	20.0	0.0	-	3.2	-	-	-	-	-	-	-	-
147.0	25.0	20.3	-	0.0	-	-	-	-	-	-	-	-
147.0	35.0	2.2	-	0.0	-	-	-	-	-	-	-	-
147.0	40.0	4.0	-	0.0	-	-	-	-	-	-	-	-
150.0	25.0	0.0	-	2.6	-	-	-	-	-	-	-	-

## Osmeridae

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
60.0	50.0	-	-	623.4	-	-	-	-	-	-	-	-
60.0	55.0	-	-	3.4	0.0	0.0	0.0	-	-	-	-	-

## Stomiiformes

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
107.0	90.0	-	0.0	0.0	9.8	0.0	0.0	-	-	-	-	-
110.0	65.0	-	-	-	14.2	0.0	-	-	-	-	-	-
143.0	40.0	-	0.0	2.2	-	-	-	-	-	-	-	-

*Cyclothone* spp.

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
80.0	90.0	0.0	0.0	0.0	1.4	-	0.0	-	0.0	-	23.4	0.0

TABLE 4. (cont.)

STATION	<i>Cyclothone</i> spp. (cont.)											
	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
90.0	60.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.4
90.0	80.0	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.0	32.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9
97.0	45.0	-	-	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8
97.0	60.0	3.4	0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.0	70.0	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
103.0	80.0	-	0.0	6.2	0.0	22.9	0.0	0.0	0.0	0.0	0.0	0.0
103.0	85.0	-	0.0	10.2	-	17.7	0.0	0.0	0.0	0.0	0.0	0.0
103.0	90.0	-	10.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.0	60.0	0.0	0.0	0.0	13.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.0	70.0	-	21.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.0	80.0	-	15.1	0.0	0.0	37.2	0.0	0.0	0.0	0.0	0.0	0.0
107.0	85.0	-	-	0.0	12.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.0	90.0	0.0	42.6	0.0	0.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0
110.0	40.0	0.0	6.5	0.0	0.0	0.0	0.0	0.0	6.1	0.0	0.0	0.0
110.0	65.0	-	-	0.0	6.7	-	-	-	-	-	-	-
110.0	70.0	0.0	0.0	0.0	0.0	16.6	0.0	0.0	0.0	0.0	0.0	0.0
110.0	80.0	0.0	3.0	0.0	0.0	43.0	0.0	0.0	0.0	0.0	0.0	0.0
110.0	85.0	-	-	51.5	0.0	-	-	-	-	-	-	-
110.0	90.0	-	7.7	24.8	0.0	19.8	0.0	0.0	0.0	0.0	0.0	0.0
113.0	35.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	0.0	0.0	0.0
113.0	40.0	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
113.0	60.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
113.0	80.0	-	0.0	10.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
113.0	80.0	-	0.0	0.0	0.0	14.6	0.0	0.0	0.0	0.0	0.0	0.0
115.0	35.0	-	-	-	-	-	3.8	0.0	0.0	0.0	0.0	0.0
120.0	50.0	0.0	0.0	0.0	0.0	3.1	0.0	0.0	0.0	0.0	0.0	0.0
120.0	55.0	0.0	0.0	0.0	0.0	17.0	0.0	0.0	0.0	0.0	0.0	0.0
120.0	70.0	0.0	11.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120.0	80.0	-	68.2	25.1	0.0	14.2	0.0	0.0	0.0	0.0	0.0	0.0
123.0	42.0	0.0	0.0	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
123.0	45.0	-	-	-	-	-	-	7.3	-	-	-	-
123.0	50.0	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
123.0	60.0	-	0.0	0.0	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.0	45.0	-	0.0	0.0	0.0	12.2	0.0	0.0	0.0	0.0	0.0	0.0
127.0	50.0	0.0	0.0	0.0	0.0	11.1	0.0	0.0	0.0	0.0	0.0	0.0
127.0	55.0	0.0	0.0	0.0	0.0	4.4	0.0	0.0	0.0	0.0	0.0	0.0
127.0	60.0	0.0	0.0	0.0	0.0	6.1	0.0	0.0	0.0	0.0	0.0	0.0
130.0	35.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130.0	40.0	0.0	0.0	0.0	0.0	2.9	0.0	0.0	0.0	0.0	0.0	0.0
130.0	45.0	-	-	-	-	-	0.0	25.0	-	-	-	-
130.0	50.0	0.0	0.0	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130.0	60.0	0.0	0.0	0.0	0.0	5.3	0.0	0.0	0.0	0.0	0.0	0.0
133.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
133.0	40.0	2.7	0.0	0.0	5.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
133.0	50.0	-	0.0	0.0	0.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0
137.0	40.0	0.0	0.0	0.0	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TABLE 4. (cont.)

*Cyclothone* spp. (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
137.0	50.0	-	0.0	-	6.7	0.0	0.0	-	-	-	-	-
137.0	60.0	-	2.6	-	-	-	-	-	-	-	-	-
140.0	50.0	2.2	-	-	-	-	-	-	-	-	-	-
143.0	60.0	3.4	-	-	-	-	-	-	-	-	-	-
150.0	40.0	2.3	-	0.0	-	-	-	-	-	-	-	-
153.0	60.0	2.0	-	0.0	-	-	-	-	-	-	-	-

*Diplophos taenia*

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
115.0	35.0	-	-	-	-	-	-	3.8	0.0	-	-	-
157.0	30.0	0.0	-	0.0	-	-	-	-	-	-	-	-
157.0	40.0	0.0	-	2.5	-	-	-	-	-	-	-	-

*Ichthyococcus* spp.

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
117.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	0.0	-	-	-
127.0	45.0	-	0.0	-	3.2	0.0	0.0	0.0	0.0	-	-	-
130.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.9	-	-	-

*Vinciguerria lucetia*

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
80.0	60.0	10.1	0.0	0.0	0.0	-	0.0	-	0.0	-	0.0	0.0
83.0	43.0	2.1	0.0	0.0	0.0	-	0.0	-	0.0	-	0.0	0.0
90.0	37.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	0.0	0.0
90.0	80.0	0.0	3.1	0.0	0.0	0.0	0.0	-	-	0.0	-	0.0
93.0	50.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	1.3	-	0.0
97.0	45.0	-	-	-	0.0	-	0.0	-	-	0.0	-	2.8
97.0	55.0	-	-	-	0.0	0.0	0.0	-	-	0.0	-	3.2
100.0	40.0	8.7	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
100.0	50.0	0.0	3.0	0.0	0.0	0.0	0.0	-	-	-	-	-
100.0	60.0	0.0	0.0	3.5	0.0	0.0	0.0	-	-	-	-	-
100.0	80.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
100.0	90.0	-	6.1	0.0	2.7	-	0.0	-	-	-	-	-
103.0	30.0	0.0	14.9	0.0	0.0	0.0	0.0	-	-	-	-	-
103.0	60.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
103.0	70.0	-	1.7	0.0	0.0	-	0.0	-	-	-	-	-
103.0	80.0	-	1.9	0.0	0.0	-	0.0	-	-	-	-	-
103.0	85.0	-	-	10.2	0.0	-	35.4	-	-	-	-	-
103.0	90.0	-	-	0.0	0.0	-	0.0	-	-	-	-	-
107.0	32.0	0.0	20.4	0.0	0.0	0.0	0.0	-	-	-	-	-
			3.3	0.0	0.0	0.0	0.0	-	-	-	-	-

TABLE 4. (cont.)

*Vinciguerria lucetia* (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
107.0	50.0	12.9	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
107.0	60.0	0.0	6.5	0.0	0.0	0.0	0.0	-	-	-	-	-
107.0	65.0	-	-	-	0.0	3.7	-	-	-	-	-	-
107.0	70.0	-	67.3	0.0	0.0	0.0	27.7	-	-	-	-	-
107.0	75.0	-	-	-	0.0	0.0	-	-	-	-	-	-
107.0	80.0	-	36.4	0.0	0.0	6.4	21.3	-	-	-	-	-
107.0	85.0	-	-	-	5.9	12.6	-	-	-	-	-	-
107.0	90.0	-	144.3	0.0	0.0	0.0	10.0	-	-	-	-	-
110.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.3	-	-	-
110.0	50.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
110.0	60.0	36.0	0.0	0.0	0.0	0.0	4.7	-	-	-	-	-
110.0	65.0	-	-	-	0.0	37.0	-	-	-	-	-	-
110.0	70.0	34.8	0.0	0.0	0.0	25.0	40.3	-	-	-	-	-
110.0	75.0	-	-	-	6.1	87.5	-	-	-	-	-	-
110.0	80.0	0.0	0.0	4.8	10.7	6.4	43.0	-	-	-	-	-
110.0	85.0	-	-	-	290.2	3.4	-	-	-	-	-	-
110.0	90.0	-	15.4	6.3	168.3	0.0	184.1	-	-	-	-	-
113.0	30.0	0.0	2.2	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-
113.0	35.0	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-
113.0	40.0	0.0	14.1	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-
113.0	45.0	-	3.2	-	20.0	0.0	0.0	-	-	-	-	-
113.0	55.0	-	0.0	-	9.2	0.0	0.0	-	-	-	-	-
113.0	60.0	0.0	0.0	21.7	0.0	0.0	0.0	-	-	-	-	-
113.0	70.0	0.0	0.0	11.4	0.0	0.0	14.4	0.0	11.1	-	-	-
115.0	40.0	-	-	-	-	-	-	-	-	-	-	-
117.0	45.0	-	3.2	-	0.0	0.0	0.0	-	-	-	-	-
117.0	55.0	-	13.6	-	0.0	0.0	0.0	-	-	-	-	-
117.0	70.0	0.0	6.5	0.0	0.0	0.0	0.0	-	-	-	-	-
117.0	80.0	-	0.0	3.0	15.8	0.0	0.0	39.3	0.0	-	-	-
118.5	25.0	-	-	-	-	-	-	-	-	-	-	-
119.0	33.0	0.0	5.2	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-
120.0	25.0	0.0	4.9	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-
120.0	45.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0	-	-	-
120.0	50.0	0.0	0.0	0.0	0.0	14.9	18.8	-	-	-	-	-
120.0	55.0	18.7	18.1	0.0	0.0	6.5	153.4	-	-	-	-	-
120.0	60.0	18.3	0.0	0.0	0.0	13.5	24.5	-	-	-	-	-
120.0	70.0	131.2	22.7	74.9	26.0	0.0	56.2	-	-	-	-	-
120.0	80.0	-	221.7	75.3	75.3	0.0	99.1	0.0	0.0	-	-	-
123.0	37.0	0.0	2.9	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-
123.0	40.0	0.0	3.3	7.1	-	0.0	-	11.7	13.1	-	-	-
123.0	42.0	-	-	42.6	0.0	0.0	0.0	-	-	-	-	-
123.0	50.0	38.1	0.0	10.2	0.0	22.3	0.0	-	-	-	-	-
123.0	55.0	0.0	13.4	0.0	0.0	10.0	0.0	-	-	-	-	-
123.0	60.0	-	7.4	2.6	17.1	6.2	0.0	-	-	-	-	-
127.0	34.0	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-
127.0	40.0	2.5	0.0	0.0	3.0	0.0	16.6	16.1	0.0	-	-	-

TABLE 4. (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
127.0	45.0	-	0.0	-	12.9	3.8	36.7	46.9	10.8	-	-	-
127.0	50.0	0.0	0.0	0.0	0.0	0.0	22.1	-	-	-	-	-
127.0	55.0	0.0	8.4	-	0.0	0.0	22.1	-	-	-	-	-
127.0	60.0	-	14.1	80.2	0.0	15.2	121.2	-	-	-	-	-
130.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	28.1	-	-	-
130.0	35.0	9.5	0.0	0.0	0.0	0.0	0.0	0.0	33.1	-	-	-
130.0	40.0	0.0	12.3	0.0	6.0	0.0	14.5	293.8	27.4	-	-	-
130.0	45.0	-	-	-	-	-	-	20.8	162.2	-	-	-
130.0	50.0	0.0	28.5	0.0	0.0	0.0	175.8	-	-	-	-	-
130.0	60.0	27.0	3.2	5.6	0.0	0.0	328.4	-	-	-	-	-
133.0	25.0	3.1	0.0	0.0	0.0	0.0	0.0	0.0	103.7	-	-	-
133.0	30.0	0.0	0.0	0.0	0.0	0.0	20.0	0.0	83.6	-	-	-
133.0	40.0	3.7	19.5	0.0	0.0	112.7	0.0	-	-	-	-	-
133.0	50.0	-	0.0	-	0.0	136.8	44.4	-	-	-	-	-
133.0	60.0	-	13.0	-	0.0	-	-	-	-	-	-	-
137.0	23.0	2.5	0.0	0.0	0.0	0.0	0.0	189.4	0.0	-	-	-
137.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	161.9	0.0	-	-	-
137.0	40.0	0.0	0.0	63.6	9.5	0.0	54.6	-	-	-	-	-
137.0	50.0	-	0.0	0.0	33.4	0.0	0.0	-	-	-	-	-
137.0	60.0	-	18.4	-	-	-	-	-	-	-	-	-
140.0	30.0	17.8	-	0.0	-	-	-	-	-	-	-	-
140.0	35.0	62.2	-	6.4	-	-	-	-	-	-	-	-
140.0	40.0	116.0	-	0.0	-	-	-	-	-	-	-	-
140.0	50.0	-	-	55.3	-	-	-	-	-	-	-	-
140.0	60.0	-	-	87.7	-	-	-	-	-	-	-	-
143.0	26.0	1.4	-	5.7	-	-	-	-	-	-	-	-
143.0	30.0	149.0	-	0.0	-	-	-	-	-	-	-	-
143.0	35.0	30.6	-	25.5	-	-	-	-	-	-	-	-
143.0	40.0	-	-	142.7	-	-	-	-	-	-	-	-
143.0	50.0	-	-	2.9	-	-	-	-	-	-	-	-
143.0	60.0	-	-	37.7	-	-	-	-	-	-	-	-
147.0	20.0	25.2	-	80.2	-	-	-	-	-	-	-	-
147.0	25.0	18.3	-	10.2	-	-	-	-	-	-	-	-
147.0	30.0	48.8	-	5.6	-	-	-	-	-	-	-	-
147.0	35.0	-	-	82.1	-	-	-	-	-	-	-	-
147.0	40.0	-	-	15.8	-	-	-	256.7	-	-	-	-
150.0	19.0	0.0	-	11.8	-	-	-	0.0	-	-	-	-
150.0	25.0	0.0	-	28.4	-	-	-	0.0	-	-	-	-
150.0	30.0	0.0	-	2.7	-	-	-	29.3	-	-	-	-
150.0	40.0	-	-	27.4	-	-	-	6.9	-	-	-	-
153.0	16.0	26.2	-	400.4	-	-	-	5.4	-	-	-	-
153.0	20.0	24.2	-	54.0	-	-	-	0.0	-	-	-	-
153.0	30.0	50.7	-	114.2	-	-	-	6.2	-	-	-	-
153.0	40.0	-	-	71.4	-	-	-	79.0	-	-	-	-
153.0	50.0	-	-	190.1	-	-	-	191.7	-	-	-	-
153.0	60.0	-	-	27.9	-	-	-	294.0	-	-	-	-



TABLE 4. (cont.)

*Vinciguerria lucetia* (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
157.0	10.0	-	-	-	-	-	-	-	-	-	-	-
157.0	20.0	87.5	-	86.8	-	-	-	-	-	-	-	-
157.0	30.0	152.8	-	24.2	-	-	-	-	-	-	-	-
157.0	40.0	47.5	-	174.3	-	-	-	-	-	-	-	-
157.0	50.0	0.0	-	67.5	-	-	-	-	-	-	-	-
157.0	60.0	2.6	-	237.6	-	-	-	-	-	-	-	-

## Sternoptychidae

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
67.0	55.0	-	-	0.0	0.0	-	10.8	-	-	-	-	-
80.0	55.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0	-	3.1	0.0
80.0	80.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0	-	0.0	3.1
87.0	50.0	0.0	0.0	0.0	0.0	0.0	0.0	-	2.9	-	0.0	0.0
90.0	28.0	2.7	0.0	0.0	0.0	0.0	0.0	-	-	0.0	-	0.0
97.0	32.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	3.2	-	0.0
100.0	75.0	-	-	0.0	0.0	0.0	8.6	-	-	-	-	0.0
107.0	80.0	-	3.0	0.0	0.0	0.0	0.0	-	-	-	-	-
107.0	90.0	-	3.3	0.0	0.0	0.0	0.0	-	-	-	-	-
110.0	60.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
110.0	75.0	-	-	-	-	-	-	3.0	0.0	-	-	-
117.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
118.0	39.0	0.0	0.0	-	0.0	0.0	0.0	-	-	-	-	-
118.5	30.0	-	-	-	0.0	0.0	0.0	3.2	0.0	-	-	-
120.0	55.0	0.0	0.0	0.0	0.0	0.0	2.8	-	-	-	-	-
120.0	80.0	-	0.0	0.0	0.0	0.0	4.7	-	-	-	-	-
123.0	50.0	0.0	0.0	35.8	0.0	0.0	0.0	-	-	-	-	-
123.0	60.0	-	3.7	0.0	0.0	0.0	0.0	-	-	-	-	-
127.0	50.0	0.0	0.0	0.0	0.0	4.0	0.0	-	-	-	-	-
130.0	35.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.6	-	-	-
130.0	40.0	0.0	6.2	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-
130.0	45.0	-	-	-	-	-	-	0.0	6.2	-	-	-
130.0	50.0	0.0	0.0	0.0	0.0	0.0	3.1	-	-	-	-	-
133.0	40.0	3.7	0.0	0.0	4.3	0.0	0.0	-	-	-	-	-
137.0	30.0	0.0	0.0	24.3	0.0	0.0	0.0	0.0	0.0	-	-	-
140.0	35.0	0.0	-	4.5	-	-	-	-	-	-	-	-
140.0	40.0	0.0	-	2.7	-	-	-	-	-	-	-	-
153.0	40.0	0.0	-	3.0	-	-	-	-	-	-	-	-

*Chauliodus macouni*

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
43.0	42.0	-	-	-	3.5	0.0	-	-	-	-	-	-
50.0	60.0	-	-	-	7.8	0.0	-	-	-	-	-	-

TABLE 4. (cont.)

*Chaulioidus macouni* (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
60.0	90.0	-	-	0.0	3.9	-	0.0	-	-	-	-	-
63.0	80.0	-	-	6.3	-	-	0.0	-	-	-	-	-
70.0	52.0	-	-	6.1	0.0	-	0.0	-	-	-	-	-
70.0	55.0	-	-	2.4	0.0	-	0.0	-	-	-	-	-
70.0	80.0	-	-	5.2	0.0	-	0.0	-	-	-	-	-
73.0	60.0	-	-	0.0	0.0	-	6.2	-	-	-	-	-
77.0	70.0	-	-	0.0	3.0	-	0.0	-	-	-	-	-
80.0	60.0	3.4	0.0	0.0	0.0	-	0.0	-	0.0	-	0.0	0.0
80.0	70.0	0.0	3.1	0.0	0.0	-	0.0	-	5.8	-	0.0	0.0
80.0	80.0	0.0	0.0	0.0	0.0	-	0.0	-	6.0	-	6.3	0.0
80.0	90.0	0.0	0.0	7.3	0.0	-	0.0	-	0.0	-	0.0	0.0
83.0	55.0	-	-	3.3	0.0	-	0.0	-	0.0	-	0.0	0.0
83.0	60.0	6.5	0.0	0.0	0.0	-	0.0	-	0.0	-	0.0	12.3
83.0	90.0	-	2.6	0.0	0.0	10.7	0.0	-	-	-	-	-
87.0	65.0	-	-	-	0.0	-	3.2	-	-	-	-	-
87.0	75.0	-	-	-	3.1	0.0	3.0	-	-	-	-	-
87.0	80.0	-	0.0	0.0	-	-	11.8	-	-	-	-	-
87.0	90.0	-	0.0	0.0	2.8	-	0.0	-	-	0.0	0.0	0.0
90.0	55.0	11.9	0.0	0.0	0.0	0.0	0.0	-	-	0.0	-	0.0
90.0	65.0	-	0.0	0.0	7.1	0.0	0.0	-	-	0.0	-	0.0
90.0	70.0	0.0	0.0	0.0	0.0	2.8	0.0	-	-	0.0	-	0.0
90.0	75.0	-	0.0	0.0	0.0	3.2	0.0	-	-	0.0	-	0.0
90.0	90.0	-	0.0	0.0	0.0	5.9	0.0	-	-	0.0	-	0.0
90.0	95.0	-	-	-	3.2	-	-	-	-	-	-	-
90.0	100.0	-	-	-	9.1	-	-	-	-	-	-	-
93.0	30.0	0.0	0.0	0.0	0.0	0.0	4.7	-	-	0.0	-	0.0
93.0	40.0	0.0	0.0	0.0	0.0	2.8	0.0	-	-	0.0	-	0.0
93.0	50.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	0.0	-	2.9
93.0	75.0	-	-	-	0.0	4.7	0.0	-	-	1.5	-	-
97.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	0.0	-	3.0
97.0	60.0	-	0.0	0.0	0.0	0.0	40.7	-	-	0.0	-	0.0
97.0	70.0	-	0.0	0.0	12.4	0.0	0.0	-	-	0.0	-	-
97.0	80.0	-	0.0	0.0	0.0	3.5	0.0	-	-	-	-	-
100.0	50.0	0.0	6.0	0.0	0.0	0.0	0.0	-	-	-	-	-
100.0	70.0	0.0	5.6	0.0	0.0	0.0	8.8	-	-	-	-	-
100.0	90.0	0.0	0.0	6.4	0.0	-	0.0	-	-	-	-	-
103.0	50.0	0.0	0.0	0.0	3.1	-	0.0	-	-	-	-	-
103.0	70.0	-	1.5	0.0	0.0	-	0.0	-	-	-	-	-
103.0	90.0	-	0.0	0.0	11.5	-	0.0	-	-	-	-	-
103.0	100.0	-	0.0	0.0	6.0	-	-	-	-	-	-	-
107.0	50.0	3.2	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
107.0	85.0	-	0.0	2.4	5.9	0.0	-	-	-	-	-	-
123.0	40.0	0.0	0.0	9.6	-	0.0	-	-	-	-	-	-
143.0	35.0	0.0	0.0	-	-	0.0	-	-	-	-	-	-

TABLE 4. (cont.)

*Idiacanthus antrostomus*

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
80.0	80.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0	-	0.0	3.1
100.0	90.0	-	0.0	0.0	0.0	-	11.2	-	-	-	-	-
103.0	90.0	-	0.0	0.0	0.0	-	40.2	-	-	-	-	-
107.0	50.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
110.0	50.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
110.0	65.0	-	-	-	0.0	3.4	-	-	-	-	-	-

*Aristostomias scintillans*

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
107.0	90.0	-	3.3	0.0	0.0	0.0	0.0	-	-	-	-	-
120.0	70.0	0.0	2.9	0.0	0.0	0.0	0.0	-	-	-	-	-

*Bathophilus* spp.

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
80.0	80.0	0.0	0.0	3.7	0.0	-	0.0	-	0.0	-	0.0	0.0
80.0	90.0	0.0	0.0	0.0	2.7	-	0.0	-	0.0	-	0.0	0.0
97.0	90.0	-	0.0	0.0	0.0	6.4	0.0	-	-	-	-	-

*Stomias atriventer*

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
110.0	70.0	0.0	5.7	0.0	0.0	0.0	0.0	-	-	-	-	-
113.0	60.0	2.7	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
113.0	70.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
118.0	39.0	5.6	0.0	-	0.0	0.0	0.0	-	-	-	-	-
120.0	30.0	0.0	0.0	0.0	0.0	12.1	0.0	0.0	0.0	-	-	-
120.0	60.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
120.0	70.0	0.0	2.9	0.0	0.0	0.0	0.0	-	-	-	-	-
120.0	80.0	-	3.4	2.8	0.0	0.0	0.0	-	-	-	-	-
123.0	60.0	-	3.7	0.0	0.0	0.0	0.0	-	-	-	-	-
127.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-
130.0	40.0	0.0	3.1	0.0	0.0	0.0	6.7	0.0	0.0	-	-	-
130.0	50.0	0.0	2.7	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-
140.0	50.0	2.2	-	0.0	2.9	0.0	0.0	-	-	-	-	-
143.0	40.0	2.2	-	0.0	-	-	-	-	-	-	-	-
147.0	40.0	0.0	-	1.9	-	-	-	-	-	-	-	-
150.0	25.0	3.2	-	0.0	-	-	-	-	-	-	-	-
153.0	30.0	0.0	-	0.0	-	-	-	-	-	-	-	-
157.0	30.0	2.4	-	0.0	-	-	-	-	-	-	-	-

TABLE 4. (cont.)

Paralepididae

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
47.0					15.5	0.0						
50.0					3.1	0.0						
50.0					7.8	4.4						
50.0					26.8	0.0						
53.0					11.0	0.0						
60.0				7.0	0.0	0.0	0.0					
63.0				6.3	2.6	0.0	6.7					
70.0				0.0	1.1	0.0	0.0					
70.0				0.0	0.0	0.0	0.0					
73.0					0.0	0.0	7.1					
73.0					0.0	0.0	6.8					
80.0	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0
80.0	0.0	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0		3.2	0.0
80.0	0.0	0.0	2.4	0.0	0.0	0.0	5.8		12.0		0.0	0.0
80.0	2.1	0.0	3.0	0.0	2.7	0.0	0.0		0.0		5.9	0.0
87.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	3.0	0.0
87.0					5.4	0.0	0.0					
87.0				0.0	2.0	0.0	0.0					
87.0					6.2	0.0	0.0					
87.0					0.0	0.0	11.8					
90.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			0.0	0.0	5.9
90.0	0.0	0.0	0.0	7.9	0.0	0.0	0.0			0.0	0.0	5.4
90.0	0.0	0.0	0.0	0.0	2.4	0.0	0.0					
90.0	0.0	6.2	0.0	0.0	0.0	0.0	0.0			0.0		0.0
90.0	0.0	0.0	0.0	0.0	9.5	0.0	0.0			0.0		0.0
90.0				3.6	0.0	0.0	0.0			0.0		0.0
90.0					3.2	0.0	0.0					0.0
93.0	6.8	0.0	0.0	0.0	0.0	0.0	0.0			0.0		
97.0			5.7	0.0	0.0	0.0	0.0					
100.0	0.0	0.0	3.0	0.0	0.0	0.0	0.0					
100.0	12.3	0.0	0.0	0.0	0.0	0.0	0.0					
103.0	0.0	0.0	1.5	0.0	0.0	0.0	0.0					
103.0					0.0	0.0	17.7					
107.0	0.0	0.0	3.2	0.0	0.0	0.0	0.0					
107.0					0.0	3.7	0.0					
107.0			0.0	0.0	10.7	0.0	0.0					
107.0					0.0	12.6	0.0					
110.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.4	0.0			
110.0	0.0	0.0	0.0	2.0	0.0	0.0	2.4					
110.0	0.0	0.0	0.0	0.0	0.0	0.0	8.6					
120.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
120.0	0.0	0.0	0.0	2.6	0.0	0.0	8.5					
127.0	0.0	0.0	2.8	0.0	0.0	0.0	0.0					
147.0	0.0	6.7		0.0	0.0	0.0						
147.0		2.2		0.0								
153.0	0.0	3.5		0.0								

TABLE 4. (cont.)

**Paralepididae (cont.)**

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
157.0	10.0	-	-	-	-	-	-	-	-	-	-	-
157.0	30.0	5.7	-	0.0	-	-	-	-	-	-	-	-
157.0	40.0	2.0	-	0.0	-	-	-	-	-	-	-	-

**Scopelosaurus spp.**

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
153.0	20.0	0.0	-	0.0	-	-	-	-	-	-	-	-

**Scopelarchidae**

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
100.0	85.0	-	-	-	3.3	-	0.0	-	-	-	-	-
107.0	70.0	-	7.1	0.0	0.0	0.0	0.0	-	-	-	-	-
110.0	65.0	-	-	-	0.0	3.4	-	-	-	-	-	-
110.0	80.0	0.0	3.0	2.4	0.0	0.0	0.0	-	-	-	-	-
113.0	70.0	0.0	0.0	0.0	0.0	0.0	7.2	-	-	-	-	-
120.0	80.0	-	0.0	0.0	0.0	0.0	14.2	-	-	-	-	-
123.0	55.0	-	0.0	-	3.3	0.0	0.0	-	-	-	-	-
130.0	45.0	-	-	-	-	-	-	0.0	6.2	-	-	-
143.0	35.0	0.0	-	9.6	-	-	-	-	-	-	-	-
153.0	20.0	3.0	-	5.1	-	-	-	-	-	-	-	-
153.0	50.0	0.0	-	8.5	-	-	-	-	-	-	-	-
157.0	20.0	2.5	-	0.0	-	-	-	-	-	-	-	-
157.0	30.0	2.8	-	0.0	-	-	-	-	-	-	-	-

**Myctophidae**

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
40.0	60.0	-	-	-	0.0	11.9	-	-	-	-	-	-
47.0	50.0	-	-	-	16.2	0.0	-	-	-	-	-	-
47.0	60.0	-	-	-	39.1	0.0	-	-	-	-	-	-
53.0	52.0	-	-	-	7.9	0.0	-	-	-	-	-	-
57.0	55.0	-	-	-	5.6	0.0	-	-	-	-	-	-
60.0	70.0	-	-	-	5.2	0.0	0.0	-	-	-	-	-
70.0	80.0	-	-	-	2.6	-	0.0	-	-	-	-	-
80.0	51.0	0.0	-	0.0	0.0	-	0.0	-	0.0	-	0.0	2.7
80.0	60.0	0.0	0.0	0.0	0.0	-	10.4	-	0.0	-	0.0	0.0
83.0	43.0	3.0	0.0	0.0	0.0	-	-	-	0.0	-	0.0	0.0
83.0	55.0	-	-	0.0	0.0	-	0.0	-	0.0	-	0.0	12.1
87.0	55.0	-	-	-	13.6	0.0	0.0	-	0.0	0.0	0.0	0.0
90.0	80.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	3.0	-	0.0
90.0	90.0	-	-	-	0.0	17.8	0.0	-	-	0.0	-	0.0

TABLE 4. (cont.)

## Myctophidae (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
93.0	50.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	1.5	-	0.0
97.0	50.0	0.0	0.0	0.0	0.0	6.0	0.0	-	-	0.0	-	0.0
97.0	55.0	-	-	-	0.0	0.0	23.9	-	-	0.0	-	0.0
97.0	70.0	0.0	0.0	3.9	0.0	0.0	0.0	-	-	-	-	-
100.0	40.0	0.0	0.0	0.0	0.0	0.0	10.6	-	-	-	-	-
100.0	45.0	-	-	-	6.0	0.0	0.0	-	-	-	-	-
100.0	70.0	0.0	5.6	0.0	0.0	-	26.8	-	-	-	-	-
100.0	90.0	-	0.0	0.0	5.3	-	0.0	-	-	-	-	-
100.0	95.0	-	-	-	4.0	-	-	-	-	-	-	-
103.0	30.0	0.0	0.0	0.0	0.0	0.0	9.0	-	-	-	-	-
103.0	35.0	0.0	0.0	0.0	0.0	0.0	2.9	-	-	-	-	-
103.0	40.0	0.0	0.0	0.0	0.0	7.9	0.0	-	-	-	-	-
103.0	50.0	0.0	1.5	0.0	0.0	-	0.0	-	-	-	-	-
103.0	65.0	-	-	-	5.4	-	0.0	-	-	-	-	-
103.0	75.0	-	-	-	5.5	-	0.0	-	-	-	-	-
103.0	85.0	-	-	-	10.2	-	0.0	-	-	-	-	-
103.0	90.0	-	1.7	0.0	0.0	-	0.0	-	-	-	-	-
107.0	85.0	-	-	-	11.8	12.6	0.0	-	-	-	-	-
113.0	30.0	0.0	2.2	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-
117.0	30.0	0.0	0.0	0.0	0.0	0.0	8.1	0.0	0.0	-	-	-
117.0	45.0	-	3.2	0.0	0.0	0.0	0.0	3.4	0.0	-	-	-
120.0	45.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
120.0	55.0	0.0	0.0	0.0	0.0	0.0	11.4	-	-	-	-	-
120.0	80.0	-	0.0	0.0	0.0	0.0	9.4	-	-	-	-	-
123.0	60.0	-	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
127.0	60.0	-	0.0	2.6	0.0	0.0	0.0	-	-	-	-	-
130.0	60.0	-	2.8	0.0	0.0	0.0	0.0	-	-	-	-	-
133.0	30.0	3.4	0.0	2.8	0.0	0.0	0.0	0.0	8.0	-	-	-
137.0	50.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
140.0	50.0	7.2	0.0	0.0	3.3	0.0	0.0	-	-	-	-	-
140.0	35.0	-	-	-	-	-	-	-	-	-	-	-
140.0	50.0	15.5	-	-	-	-	-	-	-	-	-	-
143.0	40.0	15.6	-	0.0	-	-	-	-	-	-	-	-
147.0	40.0	0.0	-	3.9	-	-	-	-	-	-	-	-
150.0	40.0	11.4	-	0.0	-	-	-	-	-	-	-	-
150.0	30.0	0.0	-	0.0	-	-	-	-	-	-	-	-
157.0	40.0	2.0	-	2.5	-	-	-	-	-	-	-	-
157.0	60.0	2.6	-	0.0	-	-	-	-	-	-	-	-

*Ceratoscopelus townsendi*

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
80.0	80.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0	-	0.0	6.1
93.0	75.0	-	-	-	6.8	0.0	0.0	-	-	-	-	-
103.0	80.0	-	0.0	0.0	6.2	-	0.0	-	-	-	-	-
107.0	60.0	3.2	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-

TABLE 4. (cont.)

*Ceratoscopelus townsendi* (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
107.0	70.0	-	3.5	0.0	0.0	0.0	0.0	-	-	-	-	-
107.0	80.0	-	0.0	0.0	0.0	0.0	10.6	-	-	-	-	-
107.0	90.0	-	13.1	0.0	0.0	0.0	0.0	-	-	-	-	-
110.0	70.0	0.0	0.0	0.0	0.0	0.0	7.1	-	-	-	-	-
110.0	80.0	0.0	3.0	2.4	0.0	0.0	0.0	-	-	-	-	-
110.0	90.0	-	0.0	8.4	0.0	0.0	9.9	-	-	-	-	-
117.0	80.0	-	0.0	3.0	0.0	0.0	0.0	-	-	-	-	-
120.0	40.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-
120.0	50.0	0.0	0.0	0.0	0.0	0.0	3.1	-	-	-	-	-
120.0	55.0	0.0	0.0	0.0	0.0	0.0	2.8	-	-	-	-	-
120.0	60.0	3.7	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
120.0	70.0	6.4	4.1	5.8	0.0	0.0	0.0	-	-	-	-	-
120.0	80.0	-	13.6	5.6	0.0	0.0	23.6	-	-	-	-	-
123.0	55.0	-	0.0	5.6	0.0	0.0	2.8	-	-	-	-	-
127.0	60.0	-	0.0	3.3	0.0	0.0	0.0	-	-	-	-	-
130.0	45.0	-	-	-	-	-	0.0	0.0	18.7	-	-	-
130.0	50.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
130.0	60.0	5.3	0.0	0.0	0.0	0.0	5.3	-	-	-	-	-
133.0	30.0	0.0	0.0	2.8	0.0	0.0	0.0	0.0	4.0	-	-	-
140.0	40.0	0.0	-	0.0	-	-	0.0	-	-	-	-	-
143.0	40.0	2.2	-	0.0	-	-	-	-	-	-	-	-

*Diaphus* spp.

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
40.0	45.0	-	-	-	14.0	0.0	-	-	-	-	-	-
40.0	50.0	-	-	-	5.6	99.0	-	-	-	-	-	-
40.0	60.0	-	-	-	35.6	23.8	-	-	-	-	-	-
40.0	70.0	-	-	-	19.2	44.1	-	-	-	-	-	-
40.0	90.0	-	-	-	0.0	28.6	-	-	-	-	-	-
47.0	55.0	-	-	-	108.5	11.6	-	-	-	-	-	-
47.0	60.0	-	-	-	78.2	10.2	-	-	-	-	-	-
50.0	50.0	-	-	-	116.0	43.2	-	-	-	-	-	-
50.0	55.0	-	-	-	155.0	0.0	-	-	-	-	-	-
50.0	60.0	-	-	-	140.4	118.8	-	-	-	-	-	-
50.0	70.0	-	-	-	8.3	144.0	-	-	-	-	-	-
50.0	80.0	-	-	-	0.0	101.6	-	-	-	-	-	-
50.0	90.0	-	-	-	388.6	31.8	-	-	-	-	-	-
53.0	65.0	-	-	-	253.9	0.0	-	-	-	-	-	-
60.0	70.0	-	-	0.0	10.4	0.0	0.0	-	-	-	-	-
60.0	80.0	-	-	0.0	0.0	19.0	0.0	-	-	-	-	-
60.0	90.0	-	-	0.0	0.0	-	0.0	-	-	-	-	-
63.0	65.0	-	-	0.0	14.2	-	0.0	-	-	-	-	-
63.0	90.0	-	-	0.0	3.4	-	5.9	-	-	-	-	-
67.0	60.0	-	-	-	-	-	20.6	-	-	-	-	-

TABLE 4. (cont.)

*Diaphus* spp. (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
67.0	70.0	-	-	-	-	-	6.6	-	-	-	-	-
67.0	80.0	-	-	0.0	-	-	12.4	-	-	-	-	-
70.0	70.0	-	-	0.0	3.8	-	0.0	-	-	-	-	-
70.0	80.0	-	-	0.0	23.3	-	53.6	-	-	-	-	-
70.0	90.0	-	-	0.0	7.4	-	130.0	-	-	-	-	-
73.0	60.0	-	-	0.0	5.2	-	11.9	-	-	-	-	-
73.0	70.0	-	-	0.0	0.0	-	7.5	-	-	-	-	-
73.0	80.0	-	-	0.0	0.0	-	28.4	-	-	-	-	-
73.0	90.0	-	-	-	0.0	-	13.7	-	-	-	-	-
77.0	80.0	-	-	-	-	-	13.5	-	-	-	-	-
77.0	90.0	-	-	-	-	-	13.8	-	-	-	-	-
80.0	55.0	0.0	0.0	0.0	0.0	-	3.0	0.0	0.0	0.0	0.0	0.0
80.0	60.0	0.0	0.0	0.0	0.0	-	15.5	0.0	0.0	0.0	0.0	0.0
80.0	70.0	0.0	0.0	0.0	0.0	-	11.6	5.8	5.8	3.2	0.0	0.0
80.0	80.0	0.0	0.0	0.0	14.1	-	23.3	0.0	0.0	0.0	0.0	0.0
80.0	90.0	0.0	0.0	0.0	2.7	-	0.0	3.0	3.0	0.0	0.0	0.0
83.0	60.0	0.0	0.0	0.0	2.4	-	17.0	0.0	0.0	0.0	0.0	0.0
83.0	70.0	-	0.0	0.0	17.0	-	177.5	-	-	-	-	-
83.0	80.0	-	0.0	0.0	4.7	-	22.2	-	-	-	-	-
83.0	90.0	-	0.0	0.0	0.0	-	25.3	-	-	0.0	0.0	0.0
87.0	60.0	0.0	0.0	0.0	0.0	0.0	4.0	-	-	-	-	-
87.0	65.0	-	-	-	0.0	0.0	12.8	-	-	-	-	-
87.0	70.0	-	0.0	0.0	0.0	0.0	3.0	-	-	-	-	-
87.0	75.0	-	-	-	0.0	0.0	18.2	-	-	-	-	-
87.0	80.0	-	0.0	0.0	0.0	0.0	11.8	-	-	-	-	-
87.0	85.0	-	-	-	0.0	-	11.8	-	-	-	-	-
87.0	90.0	-	-	-	-	-	11.4	-	-	-	-	-
90.0	45.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	3.0	0.0	0.0
90.0	55.0	0.0	0.0	0.0	0.0	0.0	2.6	-	-	0.0	0.0	0.0
90.0	60.0	0.0	0.0	0.0	0.0	0.0	3.0	-	-	0.0	0.0	0.0
90.0	65.0	-	-	-	0.0	54.0	0.0	-	-	-	-	-
90.0	70.0	0.0	0.0	0.0	0.0	19.3	0.0	-	-	0.0	-	-
90.0	75.0	-	-	-	0.0	3.0	12.2	-	-	0.0	-	-
90.0	80.0	0.0	0.0	0.0	0.0	15.4	0.0	-	-	0.0	-	-
90.0	85.0	-	-	-	0.0	18.3	0.0	-	-	-	-	-
93.0	70.0	-	0.0	0.0	0.0	0.0	81.6	-	-	-	-	-
93.0	80.0	-	0.0	0.0	0.0	12.5	0.0	-	-	-	-	-
93.0	85.0	-	-	-	0.0	6.9	11.2	-	-	-	-	-
93.0	90.0	-	0.0	0.0	0.0	8.1	0.0	-	-	-	-	-
97.0	55.0	-	-	-	0.0	0.0	23.9	-	-	0.0	-	0.0
97.0	70.0	-	0.0	0.0	0.0	6.9	0.0	-	-	-	-	-
97.0	85.0	-	-	-	11.5	0.0	0.0	-	-	-	-	-
97.0	90.0	-	0.0	0.0	0.0	82.7	58.6	-	-	-	-	-
100.0	40.0	0.0	0.0	0.0	0.0	0.0	10.6	-	-	-	-	-
100.0	50.0	0.0	0.0	0.0	0.0	0.0	8.8	-	-	-	-	-
100.0	55.0	-	-	-	0.0	-	23.2	-	-	-	-	-



TABLE 4. (cont.)

*Diaphus* spp. (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
100.0	60.0	0.0	0.0	0.0	0.0	0.0	8.5	-	-	-	-	-
100.0	65.0	-	-	-	0.0	0.0	39.5	-	-	-	-	-
100.0	70.0	0.0	0.0	0.0	-	-	26.8	-	-	-	-	-
103.0	85.0	-	-	-	0.0	-	8.8	-	-	-	-	-
107.0	55.0	-	-	-	0.0	0.0	9.0	-	-	-	-	-
107.0	65.0	-	-	-	0.0	7.3	-	-	-	-	-	-
107.0	85.0	-	-	-	17.6	0.0	-	-	-	-	-	-
107.0	90.0	-	0.0	0.0	9.8	26.4	0.0	-	-	-	-	-
110.0	40.0	0.0	0.0	0.0	5.0	0.0	0.0	0.0	0.0	-	-	-
113.0	55.0	-	0.0	-	0.0	0.0	13.0	-	-	-	-	-
157.0	10.0	-	-	-	-	-	-	-	-	-	-	-

*Lampadena urophaos*

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
110.0	70.0	0.0	0.0	0.0	0.0	12.5	0.0	-	-	-	-	-
110.0	90.0	-	0.0	0.0	29.7	0.0	2.0	-	-	-	-	-
120.0	25.0	0.0	0.0	0.0	0.0	0.0	0.0	31.7	0.0	-	-	-
120.0	55.0	0.0	0.0	0.0	0.0	0.0	5.7	-	-	-	-	-
120.0	80.0	-	0.0	0.0	0.0	0.0	4.7	-	-	-	-	-
127.0	45.0	-	0.0	-	0.0	0.0	24.5	0.0	0.0	-	-	-
127.0	50.0	0.0	0.0	0.0	0.0	0.0	2.2	-	-	-	-	-
130.0	45.0	-	-	-	-	-	-	0.0	12.5	-	-	-
130.0	50.0	0.0	0.0	0.0	0.0	0.0	3.1	-	-	-	-	-
133.0	40.0	0.0	11.2	0.0	0.0	0.0	0.0	-	-	-	-	-
133.0	50.0	-	0.0	-	0.0	0.0	5.9	-	-	-	-	-
137.0	40.0	0.0	0.0	0.0	0.0	0.0	6.4	-	-	-	-	-
137.0	60.0	-	2.6	-	-	-	-	-	-	-	-	-

*Lampanyctus* spp.

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
90.0	85.0	-	-	-	0.0	0.0	3.1	-	-	-	-	-
90.0	90.0	-	0.0	0.0	0.0	0.0	5.8	-	-	-	-	-
100.0	50.0	0.0	3.0	0.0	0.0	0.0	0.0	-	-	0.0	-	0.0
103.0	70.0	-	1.5	0.0	0.0	-	0.0	-	-	-	-	-
107.0	80.0	-	3.0	0.0	0.0	0.0	0.0	-	-	-	-	-
110.0	60.0	0.0	0.0	0.0	0.0	0.0	4.7	-	-	-	-	-
110.0	80.0	0.0	6.1	0.0	0.0	0.0	0.0	-	-	-	-	-
110.0	90.0	-	0.0	0.0	4.9	0.0	0.0	-	-	-	-	-
120.0	70.0	0.0	0.0	0.0	0.0	0.0	3.1	-	-	-	-	-
120.0	80.0	-	0.0	0.0	8.1	0.0	0.0	-	-	-	-	-
123.0	55.0	0.0	3.4	-	0.0	0.0	0.0	-	-	-	-	-
123.0	60.0	-	0.0	0.0	0.0	0.0	3.1	-	-	-	-	-

TABLE 4. (cont.)

*Lampanyctus* spp. (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
127.0	55.0	0.0	0.0	-	0.0	0.0	4.4	-	-	-	-	-
127.0	60.0	-	0.0	0.0	0.0	0.0	12.1	-	-	-	-	-
130.0	50.0	0.0	0.0	0.0	0.0	0.0	9.4	-	-	-	-	-
130.0	60.0	-	0.0	0.0	0.0	0.0	10.7	-	-	-	-	-
137.0	50.0	-	0.0	-	3.3	0.0	0.0	-	-	-	-	-
137.0	60.0	-	5.3	-	-	-	-	-	-	-	-	-
140.0	50.0	11.1	-	-	-	-	-	-	-	-	-	-
143.0	30.0	12.5	-	0.0	-	-	-	-	-	-	-	-
143.0	35.0	0.0	-	0.0	-	-	-	-	-	-	-	-
143.0	40.0	6.7	-	0.0	-	-	-	-	-	-	-	-
147.0	20.0	13.4	-	0.0	-	-	-	-	-	-	-	-
147.0	25.0	3.2	-	0.0	-	-	-	-	-	-	-	-
147.0	25.0	3.7	-	0.0	-	-	-	-	-	-	-	-
147.0	30.0	0.0	-	0.0	-	-	-	-	-	-	-	-
147.0	35.0	0.0	-	0.0	-	-	-	-	-	-	-	-
147.0	40.0	4.4	-	0.0	-	-	-	-	-	-	-	-
147.0	40.0	0.0	-	23.2	-	-	-	-	-	-	-	-
150.0	40.0	2.3	-	3.4	-	-	-	-	-	-	-	-
153.0	20.0	9.0	-	0.0	-	-	-	-	-	-	-	-
153.0	30.0	0.0	-	0.0	-	-	-	-	-	-	-	-
153.0	40.0	2.7	-	3.0	-	-	-	-	-	-	-	-
153.0	50.0	14.3	-	12.8	-	-	-	-	-	-	-	-
153.0	60.0	5.8	-	0.0	-	-	-	-	-	-	-	-
157.0	10.0	6.0	-	-	-	-	-	-	-	-	-	-
157.0	20.0	22.7	-	-	-	-	-	-	-	-	-	-
157.0	20.0	5.1	-	0.0	-	-	-	-	-	-	-	-
157.0	30.0	11.3	-	0.0	-	-	-	-	-	-	-	-
157.0	40.0	2.0	-	2.5	-	-	-	-	-	-	-	-

*Lampanyctus regalis*

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
50.0	50.0	-	-	-	0.0	3.6	-	-	-	-	-	-
77.0	80.0	-	-	-	0.0	-	6.2	-	-	-	-	-
77.0	80.0	-	-	-	0.0	-	6.8	-	-	-	-	-
80.0	60.0	0.0	0.0	0.0	0.0	-	5.2	-	0.0	-	0.0	0.0
80.0	80.0	0.0	0.0	0.0	0.0	-	5.8	-	0.0	-	0.0	0.0
83.0	80.0	0.0	0.0	0.0	1.2	-	0.0	-	0.0	-	0.0	0.0
83.0	80.0	-	0.0	0.0	1.2	-	0.0	-	0.0	-	-	-
87.0	70.0	-	0.0	0.0	4.8	0.0	0.0	-	-	-	-	-
90.0	75.0	-	-	-	0.0	0.0	0.0	-	-	-	-	-
90.0	80.0	0.0	0.0	0.0	0.0	2.7	0.0	-	0.0	-	-	0.0
93.0	70.0	0.0	2.8	0.0	0.0	0.0	0.0	-	-	0.0	-	-
93.0	75.0	-	-	-	0.0	0.0	21.3	-	-	-	-	-
97.0	90.0	-	0.0	0.0	0.0	6.4	0.0	-	-	-	-	-
107.0	80.0	-	0.0	0.0	0.0	6.4	0.0	-	-	-	-	-

TABLE 4. (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
40.0	45.0	-	-	-	4.7	0.0	-	-	-	-	-	-
43.0	42.0	-	-	-	3.5	0.0	-	-	-	-	-	-
50.0	55.0	-	-	-	6.2	0.0	-	-	-	-	-	-
50.0	60.0	-	-	-	23.4	0.0	-	-	-	-	-	-
50.0	70.0	-	-	-	8.3	0.0	-	-	-	-	-	-
50.0	80.0	-	-	-	0.0	3.1	-	-	-	-	-	-
50.0	90.0	-	-	-	13.4	0.0	-	-	-	-	-	-
57.0	65.0	-	-	-	0.0	6.6	-	-	-	-	-	-
60.0	70.0	-	-	-	10.4	0.0	10.1	-	-	-	-	-
67.0	60.0	-	-	-	-	-	6.9	-	-	-	-	-
70.0	60.0	-	-	-	1.6	-	0.0	-	-	-	-	-
70.0	80.0	-	-	-	0.0	-	5.4	-	-	-	-	-
70.0	90.0	-	-	-	0.0	-	26.0	-	-	-	-	-
73.0	60.0	-	-	-	5.2	-	0.0	-	-	-	-	-
77.0	70.0	-	-	-	0.0	-	6.1	-	-	-	-	-
80.0	60.0	3.4	0.0	0.0	1.6	-	0.0	-	5.8	-	0.0	0.0
80.0	70.0	0.0	0.0	0.0	1.3	-	5.8	-	0.0	-	0.0	0.0
80.0	80.0	0.0	0.0	3.7	0.0	-	0.0	-	0.0	-	0.0	0.0
80.0	90.0	0.0	14.9	0.0	5.3	-	0.0	-	0.0	-	5.9	0.0
83.0	43.0	2.1	0.0	0.0	0.0	-	0.0	-	0.0	-	0.0	0.0
83.0	60.0	0.0	0.0	0.0	0.0	-	5.7	-	0.0	-	0.0	0.0
83.0	70.0	-	0.0	0.0	1.2	-	25.4	-	-	-	-	-
83.0	80.0	-	0.0	0.0	1.2	-	0.0	-	-	-	-	-
83.0	90.0	-	13.0	3.1	0.0	11.0	0.0	-	-	-	-	-
87.0	70.0	-	0.0	0.0	0.0	-	3.0	-	-	-	-	-
87.0	75.0	-	0.0	0.0	2.0	-	0.0	-	-	-	-	-
87.0	80.0	-	0.0	0.0	3.1	-	0.0	-	-	-	-	-
87.0	90.0	-	2.9	0.0	0.0	-	0.0	-	-	-	-	-
90.0	37.0	0.0	0.0	0.0	0.0	2.8	0.0	-	0.0	0.0	0.0	0.0
90.0	65.0	-	-	-	0.0	10.8	0.0	-	-	-	-	-
90.0	70.0	0.0	0.0	0.0	0.0	2.8	0.0	-	0.0	0.0	-	-
90.0	75.0	-	-	-	0.0	8.0	0.0	-	-	-	-	-
90.0	80.0	4.9	0.0	0.0	9.5	0.0	0.0	-	0.0	0.0	-	-
90.0	85.0	-	-	-	0.0	5.2	0.0	-	-	-	-	-
90.0	90.0	-	2.7	0.0	0.0	5.9	0.0	-	0.0	0.0	-	-
90.0	95.0	-	-	-	6.4	-	-	-	-	-	-	-
93.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	2.9
93.0	35.0	-	-	-	0.0	0.0	0.0	-	0.0	0.0	-	2.7
93.0	50.0	0.0	0.0	4.0	3.5	0.0	0.0	-	0.0	0.0	-	0.0
93.0	55.0	-	-	-	0.0	0.0	0.0	-	1.7	0.0	-	0.0
93.0	60.0	-	17.9	0.0	0.0	5.7	0.0	-	0.0	0.0	-	0.0
93.0	70.0	-	0.0	0.0	0.0	0.0	13.6	-	-	-	-	-
93.0	75.0	-	2.8	-	6.8	0.0	0.0	-	-	-	-	-
93.0	85.0	-	-	-	3.0	0.0	0.0	-	-	-	-	-
93.0	90.0	-	2.9	0.0	0.0	0.0	0.0	-	-	-	-	-
97.0	32.0	0.0	0.0	0.0	0.0	0.0	0.0	-	3.2	-	-	0.0

TABLE 4. (cont.)

*Lampanyctus ritteri* (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
97.0	40.0	0.0	0.0	0.0	3.4	0.0	0.0	-	-	0.0	-	3.0
97.0	45.0	-	-	-	0.0	-	0.0	-	-	0.0	-	0.0
97.0	50.0	12.5	0.0	7.2	0.0	0.0	10.6	-	-	3.0	-	0.0
97.0	55.0	-	-	-	0.0	0.0	47.8	-	-	0.0	-	0.0
97.0	60.0	23.6	0.0	0.0	12.8	0.0	0.0	-	-	0.0	-	0.0
97.0	65.0	-	8.6	-	10.5	0.0	0.0	-	-	-	-	-
97.0	70.0	-	-	9.2	0.0	0.0	34.5	-	-	-	-	-
97.0	75.0	-	-	-	12.6	8.4	0.0	-	-	-	-	-
97.0	80.0	-	11.4	0.0	0.0	0.0	0.0	-	-	-	-	-
97.0	80.0	-	13.3	12.8	0.0	0.0	0.0	-	-	-	-	-
97.0	95.0	-	-	-	12.7	0.0	11.7	-	-	-	-	-
100.0	35.0	-	-	-	9.2	0.0	0.0	-	-	-	-	-
100.0	40.0	0.0	0.0	0.0	5.5	0.0	0.0	-	-	-	-	-
100.0	50.0	3.3	3.0	0.0	0.0	0.0	0.0	-	-	-	-	-
100.0	60.0	0.0	0.0	0.0	0.0	0.0	17.0	-	-	-	-	-
100.0	65.0	-	-	-	0.0	18.7	0.0	-	-	-	-	-
100.0	70.0	0.0	5.6	0.0	0.0	-	0.0	-	-	-	-	-
100.0	80.0	0.0	3.0	0.0	4.6	-	9.0	-	-	-	-	-
100.0	90.0	-	4.6	6.4	8.0	-	0.0	-	-	-	-	-
103.0	30.0	0.0	14.9	0.0	0.0	0.0	0.0	-	-	-	-	-
103.0	35.0	0.0	0.0	3.4	0.0	0.0	0.0	-	-	-	-	-
103.0	40.0	0.0	0.0	3.3	0.0	0.0	0.0	-	-	-	-	-
103.0	45.0	-	-	-	2.9	-	0.0	-	-	-	-	-
103.0	50.0	0.0	7.9	0.0	6.3	-	0.0	-	-	-	-	-
103.0	55.0	-	-	-	3.2	-	0.0	-	-	-	-	-
103.0	60.0	20.9	0.0	0.0	0.0	-	0.0	-	-	-	-	-
103.0	70.0	-	0.0	3.0	12.0	-	0.0	-	-	-	-	-
103.0	75.0	-	-	-	5.5	-	0.0	-	-	-	-	-
103.0	80.0	-	1.9	3.3	6.2	-	0.0	-	-	-	-	-
103.0	90.0	-	1.7	0.0	0.0	-	0.0	-	-	-	-	-
107.0	32.0	0.0	3.3	0.0	0.0	0.0	0.0	-	-	-	-	-
107.0	35.0	0.0	8.4	0.0	0.0	0.0	0.0	-	-	-	-	-
107.0	40.0	0.0	13.8	0.0	0.0	0.0	0.0	-	-	-	-	-
107.0	50.0	0.0	3.3	0.0	10.9	0.0	0.0	-	-	-	-	-
107.0	60.0	3.2	32.3	0.0	0.0	0.0	0.0	-	-	-	-	-
107.0	70.0	-	7.1	0.0	0.0	0.0	6.9	-	-	-	-	-
107.0	80.0	-	12.1	0.0	0.0	6.4	8.0	-	-	-	-	-
107.0	85.0	-	-	-	11.8	0.0	-	-	-	-	-	-
107.0	90.0	-	26.2	0.0	9.8	52.8	0.0	-	-	-	-	-
110.0	33.0	0.0	0.0	0.0	0.0	19.2	0.0	0.0	0.0	-	-	-
110.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	-	-	-
110.0	50.0	0.0	0.0	0.0	19.0	0.0	0.0	-	-	-	-	-
110.0	55.0	-	-	-	0.0	33.2	0.0	-	-	-	-	-
110.0	60.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
110.0	65.0	-	2.8	-	0.0	0.0	0.0	-	-	-	-	-
110.0	70.0	0.0	6.2	14.3	0.0	3.4	2.4	-	-	-	-	-

TABLE 4. (cont.)

*Lampanyctus ritteri* (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
110.0	75.0	-	6.4	12.2	4.8	6.1	29.2	-	-	-	-	-
110.0	80.0	-	6.4	12.2	4.8	10.7	0.0	-	-	-	-	-
110.0	85.0	-	-	-	-	14.0	3.4	-	-	-	-	-
110.0	90.0	-	-	5.1	4.2	0.0	4.0	-	-	-	-	-
113.0	35.0	3.6	0.0	0.0	0.0	0.0	18.0	0.0	0.0	-	-	-
113.0	40.0	0.0	2.9	42.2	2.4	0.0	4.8	0.0	0.0	-	-	-
113.0	45.0	-	-	12.9	-	0.0	0.0	-	-	-	-	-
113.0	50.0	11.0	0.0	3.0	7.4	0.0	0.0	-	-	-	-	-
113.0	70.0	7.5	0.0	0.0	0.0	0.0	14.4	-	-	-	-	-
115.0	40.0	-	-	-	-	-	-	0.0	11.1	-	-	-
117.0	30.0	0.0	0.0	0.0	5.0	0.0	0.0	0.0	0.0	-	-	-
117.0	35.0	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-
117.0	40.0	0.0	0.0	0.0	0.0	25.7	0.0	0.0	0.0	-	-	-
117.0	50.0	3.2	3.2	0.0	2.2	0.0	0.0	0.0	0.0	-	-	-
117.0	60.0	6.4	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
117.0	70.0	3.1	3.8	0.0	0.0	0.0	0.0	-	-	-	-	-
117.0	80.0	-	-	10.4	3.0	0.0	0.0	-	-	-	-	-
120.0	50.0	0.0	6.2	3.4	0.0	0.0	0.0	-	-	-	-	-
120.0	55.0	6.2	2.7	3.0	2.1	0.0	2.8	-	-	-	-	-
120.0	60.0	0.0	4.4	36.2	0.0	0.0	0.0	-	-	-	-	-
120.0	70.0	3.2	8.2	2.9	0.0	0.0	0.0	-	-	-	-	-
120.0	80.0	-	-	30.7	11.2	0.0	0.0	-	-	-	-	-
123.0	40.0	0.0	-	0.0	9.5	0.0	0.0	0.0	0.0	-	-	-
123.0	42.0	-	0.0	0.0	8.5	0.0	0.0	0.0	0.0	-	-	-
123.0	45.0	-	0.0	6.3	0.0	0.0	0.0	0.0	0.0	-	-	-
123.0	50.0	-	0.0	6.1	0.0	0.0	0.0	-	-	-	-	-
123.0	55.0	2.7	-	3.4	0.0	3.3	0.0	-	-	-	-	-
127.0	50.0	0.0	0.0	0.0	0.0	0.0	4.4	-	-	-	-	-
127.0	60.0	-	-	2.8	6.7	0.0	0.0	-	-	-	-	-
130.0	40.0	0.0	0.0	3.1	0.0	0.0	0.0	0.0	0.0	-	-	-
130.0	45.0	-	-	-	-	-	-	0.0	12.5	-	-	-
130.0	50.0	0.0	0.0	5.7	0.0	0.0	0.0	3.5	-	-	-	-
130.0	60.0	-	0.0	0.0	2.8	0.0	0.0	-	-	-	-	-
133.0	25.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	-	-	-
137.0	40.0	0.0	0.0	0.0	6.4	0.0	0.0	-	-	-	-	-
140.0	40.0	4.6	0.0	-	0.0	-	-	-	-	-	-	-

*Notolychnus valdiviae*

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
107.0	70.0	-	-	0.0	0.0	0.0	6.9	-	-	-	-	-
110.0	85.0	-	-	-	4.7	0.0	-	-	-	-	-	-

TABLE 4. (cont.)

<i>Notoscopelus resplendens</i>												
STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
107.0	70.0	-	3.5	0.0	0.0	0.0	0.0	-	-	-	-	-
<i>Stenobranchius leucopsarus</i>												
STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
40.0	40.0	-	-	-	288.0	0.0	-	-	-	-	-	-
40.0	45.0	-	-	-	316.9	132.1	-	-	-	-	-	-
40.0	50.0	-	-	-	45.0	49.5	-	-	-	-	-	-
40.0	60.0	-	-	-	17.8	23.8	-	-	-	-	-	-
40.0	70.0	-	-	-	38.3	0.0	-	-	-	-	-	-
40.0	80.0	-	-	-	23.5	0.0	-	-	-	-	-	-
43.0	42.0	-	-	-	113.0	0.0	-	-	-	-	-	-
43.0	50.0	-	-	-	9.2	47.3	-	-	-	-	-	-
47.0	50.0	-	-	-	48.7	0.0	-	-	-	-	-	-
47.0	55.0	-	-	-	93.0	34.8	-	-	-	-	-	-
47.0	60.0	-	-	-	104.3	5.1	-	-	-	-	-	-
50.0	47.0	-	-	-	2.8	0.0	-	-	-	-	-	-
50.0	50.0	-	-	-	69.6	25.2	-	-	-	-	-	-
50.0	55.0	-	-	-	3.1	5.9	-	-	-	-	-	-
50.0	60.0	-	-	-	23.4	22.0	-	-	-	-	-	-
50.0	70.0	-	-	-	49.7	0.0	-	-	-	-	-	-
50.0	80.0	-	-	-	0.0	3.1	-	-	-	-	-	-
50.0	90.0	-	-	-	40.2	21.2	-	-	-	-	-	-
53.0	52.0	-	-	-	0.0	4.4	-	-	-	-	-	-
53.0	55.0	-	-	-	18.7	0.0	-	-	-	-	-	-
53.0	65.0	-	-	-	99.4	0.0	-	-	-	-	-	-
57.0	55.0	-	-	-	33.6	33.5	-	-	-	-	-	-
57.0	65.0	-	-	-	25.0	6.6	-	-	-	-	-	-
60.0	55.0	-	-	-	54.5	3.6	0.0	-	-	-	-	-
60.0	57.0	-	-	-	-	2.6	-	-	-	-	-	-
60.0	60.0	-	-	-	3.1	0.0	0.0	-	-	-	-	-
60.0	70.0	-	-	-	45.9	9.3	0.0	-	-	-	-	-
60.0	80.0	-	-	-	26.0	2.9	10.1	-	-	-	-	-
60.0	80.0	-	-	-	48.7	0.0	0.0	-	-	-	-	-
60.0	90.0	-	-	-	0.0	37.9	23.5	-	-	-	-	-
63.0	55.0	-	-	-	0.0	-	0.0	-	-	-	-	-
63.0	65.0	-	-	-	53.2	-	-	-	-	-	-	-
63.0	80.0	-	-	-	87.6	-	0.0	-	-	-	-	-
67.0	50.0	-	-	-	0.0	4.6	2.3	-	-	-	-	-
67.0	55.0	-	-	-	5.5	-	0.0	-	-	-	-	-
67.0	65.0	-	-	-	65.0	23.4	0.0	-	-	-	-	-
67.0	80.0	-	-	-	20.2	-	0.0	-	-	-	-	-
67.0	90.0	-	-	-	-	-	12.4	-	-	-	-	-
70.0	52.0	-	-	-	24.5	55.3	0.0	-	-	-	-	-
70.0	55.0	-	-	-	28.4	0.0	0.0	-	-	-	-	-
70.0	60.0	-	-	-	43.4	1.6	6.3	-	-	-	-	-

TABLE 4. (cont.)

*Stenobrachius leucopsarus* (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
70.0	70.0	0.0	0.0	0.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70.0	80.0	0.0	0.0	0.0	15.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70.0	90.0	0.0	0.0	25.6	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
73.0	50.0	0.0	0.0	19.7	31.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
73.0	60.0	0.0	0.0	13.8	22.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
73.0	80.0	0.0	0.0	0.0	30.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.0	55.0	0.0	0.0	129.1	14.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.0	60.0	0.0	0.0	16.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.0	65.0	0.0	0.0	42.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.0	70.0	0.0	0.0	26.8	0.0	6.1	0.0	0.0	0.0	0.0	0.0	0.0
77.0	80.0	0.0	0.0	124.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80.0	51.0	4.9	28.3	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.2
80.0	55.0	36.8	30.8	57.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80.0	60.0	60.0	172.2	13.3	0.0	0.0	0.0	0.0	0.0	0.0	14.3	12.3
80.0	70.0	339.7	31.8	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80.0	80.0	82.9	0.0	13.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80.0	90.0	49.1	62.8	7.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1
82.0	47.0	5.2	17.8	0.0	2.9	0.0	0.0	0.0	0.0	0.0	0.0	3.0
83.0	40.0	0.0	0.8	0.0	49.4	44.8	0.0	0.0	0.0	0.0	0.0	5.9
83.0	43.0	8.9	30.6	0.0	5.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
83.0	51.0	0.0	11.5	18.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.4
83.0	55.0	0.0	16.0	40.2	201.3	0.0	0.0	0.0	0.0	0.0	3.3	28.4
83.0	60.0	0.0	178.8	19.7	140.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
83.0	70.0	0.0	2.7	6.8	19.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
83.0	80.0	0.0	37.1	24.2	7.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
83.0	90.0	0.0	18.3	6.5	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.0	36.0	40.3	24.7	3.3	17.7	4.0	0.0	0.0	0.0	0.0	0.0	0.0
87.0	40.0	183.8	12.8	85.9	7.2	2.4	0.0	0.0	0.0	0.0	0.0	0.0
87.0	45.0	0.0	0.0	0.0	3.0	13.5	0.0	0.0	0.0	0.0	0.0	24.4
87.0	50.0	242.8	114.2	104.4	2.0	11.8	0.0	0.0	0.0	0.0	0.0	53.2
87.0	55.0	17.3	117.8	0.0	0.0	64.8	0.0	0.0	0.0	0.0	0.0	12.7
87.0	60.0	0.0	80.3	35.3	16.2	5.7	0.0	0.0	0.0	0.0	0.0	0.0
87.0	65.0	0.0	14.9	0.0	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.0	70.0	0.0	0.0	49.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.0	75.0	0.0	14.9	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.0	80.0	0.0	11.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.0	85.0	0.0	34.6	21.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.5
90.0	28.0	232.1	9.4	23.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.7
90.0	30.0	248.2	56.8	99.0	12.6	9.6	0.0	0.0	0.0	0.0	4.8	16.7
90.0	37.0	352.6	64.8	33.0	32.0	28.5	0.0	0.0	0.0	0.0	0.0	0.0
90.0	45.0	49.1	0.0	0.0	104.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90.0	50.0	0.0	0.0	95.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90.0	55.0	0.0	12.2	121.2	101.1	36.0	0.0	0.0	0.0	0.0	0.0	11.8
90.0	60.0	15.4	31.8	31.8	6.3	2.5	0.0	0.0	0.0	0.0	0.0	10.8
90.0	65.0	0.0	18.0	14.2	28.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90.0	70.0	86.2	0.0	0.0	24.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TABLE 4. (cont.)

STATION	<i>Stenobrachius leucopsarus</i> (cont.)											
	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
90.0	75.0	-	-	-	12.8	9.4	0.0	-	-	-	-	-
90.0	80.0	4.9	9.4	6.2	190.4	0.0	0.0	-	0.0	-	-	0.0
90.0	85.0	-	-	-	4.0	0.0	0.0	-	-	-	-	-
90.0	90.0	-	194.5	14.4	0.0	0.0	0.0	-	0.0	-	-	0.0
90.0	95.0	-	-	-	9.6	-	-	-	-	-	-	-
93.0	27.0	136.7	2.9	12.2	33.6	0.0	0.0	-	0.0	-	-	0.0
93.0	30.0	48.8	0.0	9.0	0.0	0.0	0.0	-	0.0	-	-	8.8
93.0	35.0	-	-	-	37.2	12.2	0.0	-	0.0	-	-	0.0
93.0	40.0	38.2	93.2	22.3	3.8	22.1	0.0	-	0.0	-	-	0.0
93.0	45.0	-	-	-	11.3	2.9	0.0	-	0.0	-	-	8.9
93.0	50.0	0.0	76.1	43.5	24.8	0.0	0.0	-	0.0	-	-	5.8
93.0	55.0	-	-	-	23.2	3.8	0.0	-	0.0	-	-	0.0
93.0	60.0	-	116.4	45.8	13.7	0.0	0.0	-	0.0	-	-	0.0
93.0	70.0	-	13.9	3.4	89.6	0.0	0.0	-	0.0	-	-	0.0
93.0	75.0	-	-	-	47.3	0.0	0.0	-	-	-	-	-
93.0	80.0	-	4.7	2.9	6.2	0.0	0.0	-	-	-	-	-
93.0	85.0	-	-	-	3.0	0.0	0.0	-	-	-	-	-
93.0	90.0	-	2.9	0.0	0.0	0.0	0.0	-	-	-	-	-
97.0	30.0	0.0	19.5	0.0	0.0	0.0	0.0	-	2.5	-	-	0.0
97.0	32.0	0.0	3.0	46.6	31.2	5.0	0.0	-	0.0	-	-	2.9
97.0	40.0	36.4	211.7	0.0	0.0	2.0	0.0	-	0.0	-	-	3.0
97.0	45.0	-	-	-	0.0	-	0.0	-	0.0	-	-	5.7
97.0	50.0	49.9	3.0	0.0	0.0	3.0	0.0	-	0.0	-	-	3.1
97.0	55.0	-	-	-	0.0	4.9	0.0	-	0.0	-	-	9.6
97.0	60.0	-	5.8	0.0	25.7	12.3	0.0	-	0.0	-	-	0.0
97.0	65.0	-	-	-	0.0	20.8	0.0	-	-	-	-	-
97.0	70.0	-	9.2	0.0	0.0	13.8	0.0	-	-	-	-	-
97.0	75.0	-	-	-	12.6	8.4	0.0	-	-	-	-	-
97.0	80.0	-	8.5	0.0	0.0	0.0	0.0	-	-	-	-	-
97.0	90.0	-	0.0	12.8	0.0	0.0	0.0	-	-	-	-	-
97.0	100.0	-	-	-	14.5	-	-	-	-	-	-	-
100.0	29.0	69.4	0.0	0.0	5.6	0.0	0.0	-	-	-	-	-
100.0	30.0	44.8	-	-	19.4	0.0	0.0	-	-	-	-	-
100.0	33.0	-	6.1	45.4	-	0.0	0.0	-	-	-	-	-
100.0	35.0	-	3.0	121.3	33.8	2.7	0.0	-	-	-	-	-
100.0	40.0	43.6	15.2	-	87.7	0.0	0.0	-	-	-	-	-
100.0	45.0	-	-	-	12.1	0.0	0.0	-	-	-	-	-
100.0	50.0	170.4	3.3	0.0	0.0	0.0	0.0	-	-	-	-	-
100.0	60.0	13.0	0.0	3.5	6.1	0.0	0.0	-	-	-	-	-
100.0	80.0	0.0	12.2	0.0	9.8	-	0.0	-	-	-	-	-
100.0	85.0	-	-	-	9.8	-	0.0	-	-	-	-	-
100.0	90.0	-	7.6	12.8	0.0	-	0.0	-	-	-	-	-
103.0	30.0	12.2	14.5	4.4	0.0	0.0	0.0	-	-	-	-	-
103.0	35.0	11.6	6.4	3.4	0.0	0.0	0.0	-	-	-	-	-
103.0	40.0	3.3	31.3	6.7	3.0	0.0	0.0	-	-	-	-	-
103.0	45.0	-	-	-	8.8	-	0.0	-	-	-	-	-



TABLE 4. (cont.)

*Stenobranchius leucopsarus* (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
103.0	50.0	5.8	0.0	0.0	9.4	-	0.0	-	-	-	-	-
103.0	55.0	-	0.0	0.0	34.7	-	0.0	-	-	-	-	-
103.0	60.0	0.0	1.9	20.5	0.0	-	0.0	-	-	-	-	-
103.0	70.0	-	3.4	0.0	0.0	-	0.0	-	-	-	-	-
103.0	80.0	-	10.7	0.0	0.0	-	0.0	-	-	-	-	-
107.0	32.0	0.0	9.9	2.5	9.4	0.0	0.0	-	-	-	-	-
107.0	50.0	12.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
107.0	60.0	9.7	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
107.0	70.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
107.0	80.0	-	0.0	0.0	5.3	0.0	0.0	-	-	-	-	-
107.0	85.0	-	0.0	0.0	0.0	12.6	-	-	-	-	-	-
107.0	90.0	-	0.0	0.0	9.8	0.0	0.0	-	-	-	-	-
110.0	35.0	0.0	0.0	6.0	0.0	0.0	0.0	0.0	0.0	-	-	-
110.0	60.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-
110.0	80.0	0.0	0.0	0.0	10.7	0.0	0.0	-	-	-	-	-
113.0	45.0	-	3.2	0.0	0.0	0.0	0.0	-	-	-	-	-
113.0	50.0	11.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
117.0	30.0	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-

*Tripnoturus mexicanus*

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
80.0	70.0	0.0	0.0	0.0	0.0	-	0.0	-	-	-	0.0	0.0
87.0	55.0	-	0.0	0.0	0.0	0.0	0.0	-	5.8	6.8	0.0	0.0
87.0	60.0	0.0	0.0	0.0	0.0	5.7	0.0	-	-	0.0	0.0	0.0
87.0	65.0	-	-	-	0.0	10.7	0.0	-	-	-	-	-
87.0	85.0	-	-	-	-	-	23.7	-	-	-	-	-
87.0	90.0	-	0.0	0.0	0.0	-	11.4	-	-	-	-	-
90.0	37.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	0.0	0.0	2.8
90.0	45.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	3.0	0.0	0.0
90.0	75.0	-	-	-	0.0	9.6	0.0	-	-	-	-	-
90.0	85.0	-	-	-	0.0	2.6	3.1	-	-	-	-	-
93.0	27.0	0.0	0.0	0.0	0.0	0.0	2.3	-	-	0.0	-	0.0
93.0	30.0	0.0	0.0	0.0	0.0	3.3	0.0	-	-	1.4	-	0.0
93.0	35.0	-	-	-	0.0	0.0	15.6	-	-	14.1	-	0.0
93.0	40.0	0.0	0.0	0.0	7.6	27.6	44.3	-	-	3.1	-	0.0
93.0	45.0	-	-	-	0.0	2.9	0.0	-	-	0.0	-	0.0
93.0	50.0	0.0	0.0	0.0	0.0	5.7	0.0	-	-	0.0	-	0.0
93.0	55.0	-	-	-	0.0	7.7	0.0	-	-	0.0	-	0.0
93.0	65.0	-	-	-	-	17.1	0.0	-	-	-	-	-
93.0	70.0	-	0.0	0.0	0.0	0.0	13.6	-	-	-	-	-
97.0	32.0	0.0	0.0	0.0	0.0	12.6	0.0	-	-	22.6	-	0.0
97.0	40.0	0.0	0.0	0.0	0.0	10.2	2.4	-	-	11.6	-	0.0
97.0	45.0	-	-	-	0.0	-	8.7	-	-	0.0	-	0.0
97.0	50.0	0.0	0.0	0.0	0.0	3.0	0.0	-	-	8.4	-	0.0

TABLE 4. (cont.)

		<i>Tripnoturus mexicanus</i> (cont.)											
STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.	
97.0	55.0	-	-	-	0.0	0.0	47.8	-	-	-	-	0.0	
97.0	60.0	0.0	0.0	0.0	0.0	16.4	0.0	-	-	0.0	-	0.0	
97.0	75.0	-	-	0.0	0.0	0.0	8.6	-	-	-	-	-	
97.0	80.0	-	0.0	4.2	0.0	0.0	52.8	-	-	-	-	-	
97.0	85.0	-	-	-	0.0	2.3	24.6	-	-	-	-	-	
97.0	90.0	-	0.0	0.0	0.0	0.0	11.7	-	-	-	-	-	
100.0	35.0	-	-	-	0.0	8.1	0.0	-	-	-	-	-	
100.0	40.0	0.0	0.0	0.0	5.5	0.0	0.0	-	-	-	-	-	
100.0	45.0	-	-	-	0.0	2.2	0.0	-	-	-	-	-	
100.0	50.0	0.0	0.0	0.0	0.0	5.4	0.0	-	-	-	-	-	
100.0	60.0	0.0	0.0	0.0	0.0	19.9	0.0	-	-	-	-	-	
100.0	65.0	-	-	-	0.0	46.8	0.0	-	-	-	-	-	
100.0	70.0	0.0	0.0	0.0	0.0	-	107.3	-	-	-	-	-	
100.0	85.0	-	-	-	3.3	-	0.0	-	-	-	-	-	
100.0	90.0	-	0.0	6.4	0.0	-	0.0	-	-	-	-	-	
100.0	100.0	-	-	-	26.8	-	-	-	-	-	-	-	
103.0	30.0	0.0	0.0	0.0	0.0	0.0	9.0	-	-	-	-	-	
103.0	35.0	0.0	11.6	10.3	4.8	33.8	0.0	-	-	-	-	-	
103.0	40.0	0.0	0.0	0.0	0.0	52.8	147.8	-	-	-	-	-	
103.0	45.0	-	-	-	0.0	-	22.0	-	-	-	-	-	
103.0	55.0	-	-	-	0.0	-	13.4	-	-	-	-	-	
103.0	60.0	0.0	0.0	0.0	6.1	-	0.0	-	-	-	-	-	
103.0	65.0	-	-	-	5.4	-	0.0	-	-	-	-	-	
103.0	70.0	-	1.5	0.0	0.0	-	0.0	-	-	-	-	-	
103.0	75.0	-	0.0	0.0	16.6	-	24.4	-	-	-	-	-	
103.0	80.0	-	0.0	0.0	6.2	-	22.9	-	-	-	-	-	
103.0	85.0	-	-	-	0.0	-	8.8	-	-	-	-	-	
103.0	95.0	-	-	-	2.4	-	-	-	-	-	-	-	
103.0	100.0	-	-	-	6.0	-	-	-	-	-	-	-	
107.0	32.0	0.0	0.0	0.0	0.0	0.0	22.9	-	-	-	-	-	
107.0	35.0	0.0	0.0	0.0	0.0	0.0	39.3	-	-	-	-	-	
107.0	40.0	0.0	0.0	0.0	18.7	0.0	0.0	-	-	-	-	-	
107.0	45.0	0.0	0.0	64.1	64.1	0.0	41.0	-	-	-	-	-	
107.0	50.0	0.0	3.3	21.9	21.9	13.2	5.1	-	-	-	-	-	
107.0	55.0	-	-	-	0.0	61.5	0.0	-	-	-	-	-	
107.0	60.0	0.0	6.5	9.8	0.0	0.0	0.0	-	-	-	-	-	
107.0	65.0	-	-	-	5.3	3.7	-	-	-	-	-	-	
107.0	70.0	-	0.0	0.0	0.0	0.0	6.9	-	-	-	-	-	
107.0	80.0	-	3.0	0.0	0.0	12.8	5.3	-	-	-	-	-	
107.0	85.0	-	-	-	0.0	12.6	-	-	-	-	-	-	
107.0	90.0	-	0.0	3.0	9.8	0.0	5.0	-	-	-	-	-	
110.0	33.0	0.0	0.0	0.0	0.0	198.4	4.4	43.5	7.9	-	-	-	
110.0	35.0	0.0	0.0	23.8	24.9	0.0	25.9	29.9	102.6	-	-	-	
110.0	40.0	0.0	0.0	16.7	30.0	56.5	13.6	253.7	452.9	-	-	-	
110.0	45.0	-	-	-	0.0	0.0	51.2	-	-	-	-	-	
110.0	50.0	0.0	0.0	0.0	66.4	12.6	34.5	-	-	-	-	-	

TABLE 4. (cont.)

*Triphoturus mexicanus* (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
110.0	55.0	-	0.0	10.4	24.8	0.0	15.2	-	-	-	-	-
110.0	60.0	0.0	0.0	10.4	45.6	0.0	4.7	-	-	-	-	-
110.0	65.0	0.0	-	0.0	0.0	6.7	-	-	-	-	-	-
110.0	70.0	0.0	11.4	12.3	0.0	37.6	30.8	-	-	-	-	-
110.0	75.0	0.0	-	12.1	12.1	0.0	-	-	-	-	-	-
110.0	80.0	0.0	0.0	2.4	10.7	6.4	163.4	-	-	-	-	-
110.0	85.0	-	-	18.7	18.7	10.3	-	-	-	-	-	-
110.0	90.0	-	0.0	0.0	9.9	2.9	45.5	-	-	-	-	-
113.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	5.9	4.9	-	-	-
113.0	35.0	0.0	0.0	0.0	0.0	0.0	108.2	50.9	122.1	-	-	-
113.0	40.0	0.0	0.0	9.7	0.0	0.0	326.4	9.4	113.8	-	-	-
113.0	45.0	-	0.0	-	0.0	9.1	67.2	-	-	-	-	-
113.0	50.0	0.0	0.0	0.0	29.6	0.0	0.0	-	-	-	-	-
113.0	55.0	-	0.0	0.0	36.8	0.0	38.9	-	-	-	-	-
113.0	60.0	0.0	0.0	75.9	21.1	0.0	25.0	-	-	-	-	-
113.0	70.0	0.0	0.0	22.8	0.0	26.4	50.4	-	-	-	-	-
113.0	75.0	-	-	11.0	11.0	0.0	-	-	-	-	-	-
113.0	80.0	-	0.0	0.0	0.0	28.0	43.8	-	-	-	-	-
115.0	27.0	-	-	-	-	-	-	0.0	8.1	-	-	-
115.0	30.0	-	-	-	-	-	-	0.0	23.6	-	-	-
115.0	35.0	-	-	-	-	-	-	318.4	5.6	-	-	-
115.0	40.0	-	-	-	-	-	-	70.4	228.0	-	-	-
115.0	45.0	-	-	-	-	-	-	7.4	5.2	-	-	-
117.0	26.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-
117.0	30.0	0.0	0.0	0.0	0.0	0.0	16.2	0.0	20.4	-	-	-
117.0	35.0	0.0	0.0	0.0	0.0	37.4	0.0	0.0	15.1	-	-	-
117.0	40.0	0.0	0.0	2.7	0.0	33.2	27.7	11.4	20.0	-	-	-
117.0	50.0	0.0	0.0	0.0	14.2	0.0	27.4	15.1	20.0	-	-	-
117.0	55.0	-	0.0	0.0	65.9	13.3	0.0	-	-	-	-	-
117.0	60.0	3.2	0.0	6.8	17.2	13.7	0.0	-	-	-	-	-
117.0	65.0	-	-	-	28.0	0.0	-	-	-	-	-	-
117.0	70.0	0.0	3.3	10.7	34.3	0.0	28.5	-	-	-	-	-
117.0	75.0	-	0.0	3.0	15.3	29.3	-	-	-	-	-	-
117.0	80.0	-	0.0	-	0.0	0.0	52.3	-	-	-	-	-
118.0	39.0	0.0	0.0	-	0.0	0.0	165.5	-	-	-	-	-
118.5	25.0	-	-	-	0.0	0.0	-	0.0	23.3	-	-	-
118.5	30.0	-	-	-	-	-	-	28.4	7.0	-	-	-
119.0	33.0	0.0	0.0	0.0	34.9	0.0	28.3	0.0	3.7	-	-	-
120.0	25.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	38.5	-	-	-
120.0	30.0	0.0	0.0	0.0	28.5	0.0	0.0	30.1	0.0	-	-	-
120.0	35.0	-	-	-	-	-	-	6.2	0.0	-	-	-
120.0	40.0	0.0	0.0	0.0	0.0	0.0	25.6	0.0	7.8	-	-	-
120.0	45.0	0.0	0.0	0.0	7.2	0.0	0.0	34.0	192.0	-	-	-
120.0	50.0	3.2	3.4	6.2	12.1	11.2	53.4	-	-	-	-	-
120.0	55.0	0.0	0.0	2.1	47.8	0.0	5.7	-	-	-	-	-
120.0	60.0	0.0	0.0	0.0	0.0	33.8	9.2	-	-	-	-	-
120.0	70.0	0.0	0.0	5.2	11.6	59.8	43.7	-	-	-	-	-

TABLE 4. (cont.)

*Tripnoturus mexicanus* (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
120.0	80.0	-	6.8	5.6	2.7	0.0	28.3	-	-	-	-	-
123.0	37.0	0.0	0.0	0.0	0.0	0.0	0.0	11.4	0.0	-	-	-
123.0	40.0	0.0	0.0	19.0	-	21.8	-	-	-	-	-	-
123.0	42.0	6.8	-	8.5	0.0	0.0	0.0	82.0	32.7	-	-	-
123.0	45.0	-	0.0	-	-	-	-	85.1	138.3	-	-	-
123.0	50.0	0.0	0.0	0.0	0.0	3.7	0.0	-	-	-	-	-
123.0	55.0	0.0	0.0	0.0	0.0	50.0	25.4	-	-	-	-	-
123.0	60.0	-	0.0	0.0	6.8	33.9	21.9	-	-	-	-	-
127.0	34.0	0.0	0.0	0.0	5.5	0.0	-	0.0	36.7	-	-	-
127.0	40.0	0.0	0.0	0.0	6.0	0.0	36.6	38.5	6.1	-	-	-
127.0	45.0	0.0	0.0	0.0	70.8	0.0	12.2	67.0	36.0	-	-	-
127.0	50.0	0.0	0.0	11.0	3.1	0.0	17.7	-	-	-	-	-
127.0	55.0	0.0	0.0	-	3.0	65.8	6.6	-	-	-	-	-
127.0	60.0	0.0	0.0	3.3	5.7	45.5	97.0	-	-	-	-	-
130.0	30.0	0.0	0.0	0.0	6.1	0.0	0.0	0.0	36.7	-	-	-
130.0	35.0	0.0	0.0	8.6	9.4	3.6	20.2	43.0	105.9	-	-	-
130.0	40.0	0.0	24.6	2.9	0.0	3.6	11.6	538.6	370.4	-	-	-
130.0	45.0	-	-	-	-	-	-	62.5	156.0	-	-	-
130.0	50.0	0.0	17.1	5.6	38.0	0.0	34.5	-	-	-	-	-
130.0	60.0	6.7	0.0	16.9	0.0	3.4	26.7	-	-	-	-	-
133.0	25.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30.7	-	-	-
133.0	30.0	0.0	10.1	0.0	0.0	0.0	147.5	0.0	95.5	-	-	-
133.0	40.0	0.0	19.5	2.9	4.3	23.1	0.0	-	-	-	-	-
133.0	50.0	-	2.8	-	6.7	3.4	38.5	-	-	-	-	-
133.0	60.0	-	6.5	-	-	-	-	-	-	-	-	-
137.0	23.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	44.7	-	-	-
137.0	30.0	0.0	0.0	0.0	0.0	0.0	10.2	353.3	32.8	-	-	-
137.0	40.0	0.0	0.0	9.5	12.7	22.5	19.3	-	-	-	-	-
137.0	50.0	0.0	0.0	-	53.4	0.0	11.7	-	-	-	-	-
137.0	60.0	-	13.2	-	-	-	-	-	-	-	-	-
140.0	40.0	0.0	-	2.7	-	-	-	-	-	-	-	-
140.0	50.0	13.3	-	-	-	-	-	-	-	-	-	-
143.0	40.0	8.9	-	24.4	-	-	-	-	-	-	-	-
143.0	60.0	3.4	-	-	-	-	-	-	-	-	-	-
147.0	30.0	0.0	-	0.0	-	-	-	-	-	-	-	-
147.0	40.0	0.0	-	98.4	-	-	-	-	-	-	-	-
153.0	16.0	17.0	-	0.0	-	-	-	-	-	-	-	-
153.0	50.0	2.9	-	0.0	-	-	-	-	-	-	-	-
157.0	40.0	0.0	-	5.0	-	-	-	-	-	-	-	-

*Diogenichthys* spp.

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
97.0	30.0	0.0	0.0	0.0	0.0	1.7	0.0	-	-	0.0	-	0.0
118.5	30.0	-	-	-	-	-	-	15.8	0.0	-	-	-

TABLE 4. (cont.)

*Diogenichthys* spp. (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
120.0	70.0	3.2	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
<i>Diogenichthys atlanticus</i>												
80.0	70.0	0.0	0.0	0.0	1.3	-	0.0	-	0.0	-	0.0	0.0
80.0	80.0	0.0	0.0	0.0	0.0	-	5.8	-	0.0	-	0.0	0.0
80.0	90.0	0.0	0.0	0.0	8.2	-	0.0	-	0.0	-	0.0	15.3
83.0	80.0	-	0.0	0.0	1.2	-	0.0	-	-	-	-	0.0
83.0	90.0	-	2.6	0.0	1.4	-	0.0	-	-	-	-	-
87.0	70.0	-	0.0	0.0	9.7	0.0	0.0	-	-	-	-	-
87.0	75.0	-	-	0.0	6.2	-	0.0	-	-	-	-	-
87.0	80.0	-	3.0	0.0	0.0	-	0.0	-	-	-	-	-
90.0	30.0	0.0	0.0	5.9	0.0	-	0.0	-	-	0.0	-	0.0
90.0	80.0	0.0	0.0	0.0	0.0	-	0.0	-	-	0.0	-	0.0
90.0	85.0	-	-	0.0	0.0	2.6	0.0	-	-	-	-	-
93.0	85.0	-	-	0.0	0.0	6.9	0.0	-	-	-	-	-
93.0	90.0	-	2.9	0.0	0.0	0.0	0.0	-	-	-	-	-
97.0	40.0	0.0	0.0	0.0	3.4	0.0	0.0	-	-	0.0	-	0.0
97.0	50.0	0.0	0.0	0.0	0.0	3.0	0.0	-	-	0.0	-	0.0
97.0	60.0	-	0.0	0.0	0.0	0.0	0.0	-	-	0.0	-	0.0
97.0	75.0	-	-	0.0	0.0	0.0	8.6	-	-	-	-	-
97.0	80.0	-	2.8	0.0	0.0	0.0	0.0	-	-	-	-	-
97.0	90.0	-	0.0	12.8	0.0	0.0	11.7	-	-	-	-	-
100.0	70.0	0.0	5.6	0.0	0.0	-	0.0	-	-	-	-	-
100.0	75.0	-	-	6.1	0.0	-	0.0	-	-	-	-	-
100.0	80.0	0.0	3.0	18.3	0.0	-	0.0	-	-	-	-	-
100.0	90.0	-	6.1	2.7	0.0	-	0.0	-	-	-	-	-
103.0	70.0	-	4.7	0.0	0.0	-	0.0	-	-	-	-	-
103.0	80.0	-	0.0	6.2	0.0	-	0.0	-	-	-	-	-
103.0	85.0	-	-	20.5	0.0	-	0.0	-	-	-	-	-
103.0	90.0	-	18.6	0.0	0.0	-	0.0	-	-	-	-	-
103.0	95.0	-	-	2.4	0.0	-	0.0	-	-	-	-	-
107.0	50.0	12.9	6.6	0.0	0.0	0.0	0.0	-	-	-	-	-
107.0	60.0	0.0	3.2	0.0	0.0	13.3	0.0	-	-	-	-	-
107.0	70.0	-	42.5	0.0	0.0	0.0	0.0	-	-	-	-	-
107.0	80.0	-	27.3	0.0	0.0	6.4	2.7	-	-	-	-	-
107.0	90.0	-	62.3	3.0	0.0	0.0	0.0	0.0	2.6	-	-	-
110.0	33.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-
110.0	50.0	0.0	0.0	0.0	19.0	0.0	0.0	-	-	-	-	-
110.0	60.0	5.1	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
110.0	70.0	31.3	6.2	0.0	0.0	0.0	4.7	-	-	-	-	-
110.0	80.0	0.0	0.0	19.3	0.0	0.0	0.0	-	-	-	-	-
110.0	90.0	-	10.3	0.0	14.8	0.0	0.0	-	-	-	-	-
113.0	35.0	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-

TABLE 4. (cont.)

*Diogenichthys atlanticus* (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
113.0	40.0	0.0	2.9	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-
113.0	45.0	-	3.2	0.0	0.0	0.0	0.0	-	-	-	-	-
113.0	50.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
113.0	60.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
117.0	55.0	-	0.0	0.0	24.7	0.0	0.0	-	-	-	-	-
117.0	60.0	0.0	29.1	0.0	0.0	0.0	0.0	-	-	-	-	-
117.0	80.0	-	0.0	0.0	7.9	0.0	0.0	-	-	-	-	-
120.0	45.0	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-
120.0	50.0	0.0	3.1	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-
120.0	55.0	0.0	2.7	0.0	0.0	0.0	0.0	-	-	-	-	-
120.0	60.0	3.7	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
120.0	70.0	16.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
120.0	80.0	-	-	6.8	0.0	0.0	0.0	-	-	-	-	-
123.0	40.0	0.0	-	0.0	-	0.0	-	-	-	-	-	-
123.0	42.0	-	0.0	2.1	0.0	0.0	0.0	0.0	0.0	-	-	-
123.0	55.0	2.7	-	0.0	0.0	0.0	0.0	-	-	-	-	-
127.0	50.0	0.0	0.0	0.0	3.1	0.0	0.0	-	-	-	-	-

*Diogenichthys laternatus*

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
90.0	80.0	0.0	0.0	0.0	19.0	0.0	0.0	-	-	0.0	-	0.0
107.0	80.0	-	9.1	0.0	0.0	0.0	0.0	-	-	-	-	-
110.0	70.0	0.0	0.0	2.0	0.0	0.0	0.0	-	-	-	-	-
110.0	85.0	-	-	-	14.0	0.0	-	-	-	-	-	-
113.0	40.0	0.0	14.1	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-
117.0	80.0	-	0.0	6.0	0.0	0.0	0.0	-	-	-	-	-
120.0	55.0	6.2	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
120.0	70.0	6.4	0.0	0.0	0.0	0.0	9.4	-	-	-	-	-
120.0	80.0	-	3.4	8.4	0.0	0.0	4.7	-	-	-	-	-
123.0	37.0	0.0	2.9	0.0	0.0	0.0	23.6	0.0	0.0	-	-	-
123.0	40.0	2.8	0.0	0.0	-	0.0	-	-	-	-	-	-
123.0	42.0	-	0.0	2.1	0.0	0.0	0.0	0.0	0.0	-	-	-
123.0	45.0	-	0.0	-	0.0	-	-	6.1	0.0	-	-	-
123.0	50.0	-	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
123.0	60.0	-	0.0	0.0	13.6	0.0	0.0	-	-	-	-	-
127.0	40.0	2.5	0.0	0.0	0.0	0.0	43.3	3.2	12.3	-	-	-
127.0	45.0	-	0.0	-	3.2	0.0	12.2	0.0	3.6	-	-	-
127.0	50.0	3.2	0.0	0.0	0.0	0.0	30.9	-	-	-	-	-
127.0	55.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
127.0	60.0	-	0.0	0.0	0.0	0.0	72.7	-	-	-	-	-
130.0	35.0	3.2	6.0	0.0	0.0	0.0	10.1	0.0	33.1	-	-	-
130.0	40.0	5.4	6.2	0.0	0.0	0.0	34.7	18.4	0.0	-	-	-
130.0	45.0	-	-	-	-	-	-	0.0	6.2	-	-	-
130.0	50.0	0.0	34.2	0.0	0.0	0.0	31.4	-	-	-	-	-

TABLE 4. (cont.)

*Diogenichthys laternatus* (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
130.0	60.0	0.0	68.0	2.8	0.0	3.4	152.2	-	-	-	-	-
133.0	30.0	0.0	0.0	0.0	0.0	0.0	100.0	24.2	39.8	-	-	-
133.0	40.0	2.7	13.9	0.0	0.0	8.7	0.0	-	-	-	-	-
133.0	50.0	-	0.0	-	0.0	20.5	23.7	-	-	-	-	-
133.0	60.0	-	13.0	-	-	-	-	-	-	-	-	-
137.0	40.0	0.0	30.7	25.4	6.3	18.0	28.9	-	-	-	-	-
137.0	50.0	-	6.9	-	16.7	0.0	0.0	-	-	-	-	-
137.0	60.0	-	42.1	-	-	-	-	-	-	-	-	-
140.0	30.0	0.0	0.0	0.0	-	-	-	-	-	-	-	-
140.0	35.0	14.3	-	6.7	-	-	-	-	-	-	-	-
140.0	40.0	0.0	-	0.0	-	-	-	-	-	-	-	-
140.0	50.0	70.7	-	-	-	-	-	-	-	-	-	-
140.0	60.0	2.8	-	-	-	-	-	-	-	-	-	-
143.0	26.0	7.6	-	0.0	-	-	-	-	-	-	-	-
143.0	30.0	0.0	-	10.0	-	-	-	-	-	-	-	-
143.0	35.0	51.0	-	19.1	-	-	-	-	-	-	-	-
143.0	40.0	22.3	-	13.3	-	-	-	-	-	-	-	-
143.0	50.0	2.9	-	-	-	-	-	-	-	-	-	-
143.0	60.0	6.9	-	-	-	-	-	-	-	-	-	-
147.0	20.0	521.0	-	0.0	-	-	-	-	-	-	-	-
147.0	25.0	5.1	-	0.0	-	-	-	-	-	-	-	-
147.0	30.0	0.0	-	2.7	-	-	-	-	-	-	-	-
147.0	40.0	7.9	-	46.3	-	-	-	-	-	-	-	-
150.0	25.0	12.6	-	2.6	-	-	-	-	-	-	-	-
150.0	30.0	2.7	-	14.6	-	-	-	-	-	-	-	-
150.0	40.0	0.0	-	24.0	-	-	-	-	-	-	-	-
153.0	16.0	230.0	-	0.0	-	-	-	-	-	-	-	-
153.0	20.0	30.0	-	5.1	-	-	-	-	-	-	-	-
153.0	30.0	62.3	-	0.0	-	-	-	-	-	-	-	-
153.0	40.0	8.2	-	24.3	-	-	-	-	-	-	-	-
153.0	50.0	2.9	-	268.4	-	-	-	-	-	-	-	-
157.0	10.0	-	-	-	-	-	-	-	-	-	-	-
157.0	20.0	27.5	-	74.4	-	-	-	-	-	-	-	-
157.0	30.0	56.6	-	33.9	-	-	-	-	-	-	-	-
157.0	40.0	13.9	-	12.4	-	-	-	-	-	-	-	-
157.0	50.0	2.9	-	3.1	-	-	-	-	-	-	-	-

*Gonichthys tenuiculus*

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
123.0	50.0	0.0	0.0	0.0	0.0	3.7	0.0	-	-	-	-	-
127.0	55.0	0.0	0.0	-	0.0	0.0	2.2	-	-	-	-	-
130.0	50.0	0.0	5.7	0.0	0.0	0.0	0.0	-	-	-	-	-
133.0	50.0	-	0.0	-	0.0	6.8	0.0	-	-	-	-	-
137.0	50.0	-	0.0	-	3.3	0.0	2.9	-	-	-	-	-

TABLE 4. (cont.)

*Gonichthys tenuiculus* (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
140.0	50.0	2.2	-	-	-	-	-	-	-	-	-	-
143.0	40.0	8.9	-	0.0	-	-	-	-	-	-	-	-
147.0	40.0	0.0	-	9.6	-	-	-	-	-	-	-	-
153.0	40.0	2.0	-	0.0	-	-	-	-	-	-	-	-
153.0	50.0	8.6	-	0.0	-	-	-	-	-	-	-	-
153.0	60.0	4.0	-	0.0	-	-	-	-	-	-	-	-

*Hygophum* spp.

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
80.0	90.0	0.0	0.0	0.0	2.7	-	0.0	-	0.0	-	0.0	0.0
130.0	50.0	0.0	2.8	0.0	0.0	0.0	0.0	-	-	-	-	-
133.0	50.0	-	2.8	-	0.0	0.0	0.0	-	-	-	-	-
153.0	60.0	0.0	-	11.8	-	-	-	-	-	-	-	-
157.0	20.0	17.5	-	0.0	-	-	-	-	-	-	-	-
157.0	30.0	0.0	-	0.0	-	-	-	-	-	-	-	-

*Hygophum atratum*

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
100.0	60.0	0.0	0.0	0.0	0.0	0.0	8.5	-	-	-	-	-
120.0	50.0	0.0	0.0	0.0	0.0	3.7	0.0	-	-	-	-	-
130.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-
133.0	40.0	0.0	2.8	0.0	0.0	5.8	0.0	0.0	0.0	-	-	-
137.0	40.0	0.0	0.0	0.0	0.0	0.0	3.2	-	-	-	-	-
140.0	40.0	0.0	-	2.7	-	-	-	-	-	-	-	-
143.0	40.0	13.4	-	0.0	-	-	-	-	-	-	-	-
147.0	20.0	6.7	-	0.0	-	-	-	-	-	-	-	-
147.0	30.0	0.0	-	0.0	-	-	-	-	-	-	-	-
147.0	40.0	0.0	-	7.7	-	-	-	-	-	-	-	-
150.0	40.0	0.0	-	10.3	-	-	-	-	-	-	-	-
153.0	40.0	8.2	-	0.0	-	-	-	-	-	-	-	-
153.0	50.0	5.8	-	17.0	-	-	-	-	-	-	-	-
153.0	60.0	4.0	-	0.0	-	-	-	-	-	-	-	-
157.0	20.0	0.0	-	0.0	-	-	-	-	-	-	-	-
157.0	30.0	2.8	-	0.0	-	-	-	-	-	-	-	-
157.0	40.0	2.0	-	5.0	-	-	-	-	-	-	-	-
157.0	50.0	0.0	-	9.2	-	-	-	-	-	-	-	-

*Hygophum reinhardtii*

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
107.0	80.0	-	3.0	0.0	0.0	0.0	0.0	-	-	-	-	-



TABLE 4. (cont.)

*Hygophum reinhardtii* (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
107.0	90.0	-	3.3	0.0	0.0	0.0	0.0	-	-	-	-	-
110.0	70.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
110.0	90.0	-	0.0	0.0	0.0	0.0	2.0	-	-	-	-	-
120.0	70.0	0.0	0.0	0.0	0.0	0.0	6.2	-	-	-	-	-
123.0	60.0	-	0.0	0.0	0.0	3.1	0.0	-	-	-	-	-
130.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	6.1	0.0	-	-	-

*Loweina rara*

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
80.0	70.0	0.0	3.2	0.0	0.0	-	0.0	-	0.0	-	0.0	0.0
137.0	50.0	-	3.4	-	0.0	0.0	0.0	-	-	-	-	-
140.0	50.0	11.1	-	-	-	-	-	-	-	-	-	-
143.0	35.0	0.0	-	0.0	-	-	-	-	-	-	-	-
157.0	40.0	0.0	-	2.5	-	-	-	-	-	-	-	-

*Myctophum aurolateratum*

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
147.0	20.0	0.0	-	0.0	-	-	-	-	-	-	-	-
153.0	30.0	6.7	-	0.0	-	-	-	-	-	-	-	-
157.0	30.0	8.5	-	0.0	-	-	-	-	-	-	-	-
157.0	40.0	2.0	-	0.0	-	-	-	-	-	-	-	-

*Myctophum nitidulum*

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
97.0	70.0	0.0	0.0	0.0	0.0	0.0	17.2	-	-	-	-	-
103.0	75.0	-	-	0.0	0.0	-	24.4	-	-	-	-	-
107.0	80.0	-	0.0	0.0	0.0	0.0	2.7	-	-	-	-	-
110.0	65.0	-	-	0.0	0.0	3.4	-	-	-	-	-	-
110.0	80.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
110.0	90.0	-	6.1	0.0	0.0	0.0	4.0	-	-	-	-	-
113.0	60.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
120.0	70.0	0.0	0.0	10.8	0.0	0.0	0.0	-	-	-	-	-
123.0	60.0	0.0	0.0	2.6	0.0	0.0	0.0	-	-	-	-	-
130.0	40.0	0.0	0.0	0.0	0.0	3.1	0.0	6.1	0.0	-	-	-
130.0	45.0	-	-	0.0	0.0	0.0	0.0	0.0	6.2	-	-	-
143.0	40.0	4.5	-	0.0	-	-	-	-	-	-	-	-

TABLE 4. (cont.)

*Protomyctophum crockeri*

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
40.0	40.0	-	-	-	12.0	0.0	-	-	-	-	-	-
40.0	45.0	-	-	-	4.7	0.0	-	-	-	-	-	-
40.0	50.0	-	-	-	49.5	0.0	-	-	-	-	-	-
40.0	70.0	-	-	-	19.2	0.0	-	-	-	-	-	-
43.0	50.0	-	-	-	4.6	0.0	-	-	-	-	-	-
47.0	60.0	-	-	-	13.0	0.0	-	-	-	-	-	-
50.0	70.0	-	-	-	0.0	12.0	-	-	-	-	-	-
50.0	80.0	-	-	-	0.0	6.2	-	-	-	-	-	-
53.0	65.0	-	-	-	11.0	0.0	-	-	-	-	-	-
60.0	60.0	-	-	-	0.0	0.0	0.0	-	-	-	-	-
60.0	70.0	-	-	-	5.2	0.0	20.2	-	-	-	-	-
60.0	80.0	-	-	-	0.0	9.5	0.0	-	-	-	-	-
60.0	90.0	-	-	-	0.0	-	11.8	-	-	-	-	-
63.0	80.0	-	-	-	-	-	0.0	-	-	-	-	-
67.0	65.0	-	-	-	1.1	-	-	-	-	-	-	-
70.0	80.0	-	-	-	2.6	-	0.0	-	-	-	-	-
73.0	80.0	-	-	-	0.0	-	7.1	-	-	-	-	-
77.0	50.0	-	-	-	0.0	-	0.0	-	-	-	-	-
77.0	70.0	-	-	-	3.0	-	0.0	-	-	-	-	-
80.0	55.0	-	-	-	0.0	-	3.0	-	0.0	-	0.0	0.0
80.0	60.0	-	-	-	0.0	-	0.0	-	0.0	-	0.0	6.1
80.0	70.0	-	-	-	1.6	-	0.0	-	0.0	-	6.5	0.0
80.0	80.0	-	-	-	1.3	-	0.0	-	11.7	-	0.0	6.1
80.0	80.0	-	-	-	13.3	-	11.6	-	0.0	-	0.0	0.0
80.0	90.0	-	-	-	0.0	-	0.0	-	3.0	-	0.0	0.0
83.0	43.0	-	-	-	0.0	-	0.0	-	2.8	-	0.0	0.0
83.0	55.0	-	-	-	0.0	-	0.0	-	16.6	-	6.0	0.0
83.0	60.0	-	-	-	3.2	-	0.0	-	5.9	-	2.9	12.3
83.0	70.0	-	-	-	8.5	-	0.0	-	-	-	-	-
83.0	80.0	-	-	-	0.0	-	0.0	-	-	-	-	-
83.0	90.0	-	-	-	0.0	-	0.0	-	-	-	-	-
87.0	45.0	-	-	-	0.0	-	0.0	-	0.0	-	0.0	6.1
87.0	55.0	-	-	-	0.0	0.0	0.0	-	0.0	-	0.0	2.7
87.0	60.0	-	-	-	0.0	0.0	0.0	-	0.0	0.0	6.5	3.2
87.0	70.0	-	-	-	0.0	0.0	0.0	-	0.0	0.0	3.0	0.0
87.0	75.0	-	-	-	4.1	-	3.0	-	-	-	-	-
87.0	80.0	-	-	-	0.0	2.8	0.0	-	-	-	-	-
87.0	85.0	-	-	-	0.0	-	11.8	-	-	-	-	-
87.0	90.0	-	-	-	0.0	-	11.4	-	-	-	-	-
90.0	45.0	-	-	-	34.7	0.0	0.0	-	-	6.1	0.0	0.0
90.0	50.0	-	-	-	0.0	5.9	0.0	-	-	6.1	0.0	0.0
90.0	55.0	-	-	-	0.0	0.0	0.0	-	-	2.9	0.0	5.9
90.0	70.0	-	-	-	0.0	0.0	0.0	-	-	0.0	0.0	0.0
90.0	75.0	-	-	-	0.0	6.4	0.0	-	-	0.0	-	0.0
90.0	80.0	-	-	-	9.5	5.2	0.0	-	-	0.0	-	0.0
90.0	90.0	-	-	-	19.3	0.0	0.0	-	-	3.0	-	6.6

TABLE 4. (cont.)

*Protomyctophum crockeri* (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
90.0	-	-	-	-	3.2	-	-	-	-	-	-	-
93.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	0.0	-	2.7
93.0	0.0	0.0	0.0	0.0	6.0	0.0	9.4	-	-	0.0	-	0.0
93.0	-	-	-	-	0.0	2.4	2.2	-	-	0.0	-	2.7
93.0	0.0	0.0	5.5	0.0	0.0	0.0	0.0	-	-	0.0	-	2.9
93.0	-	-	-	-	0.0	2.9	0.0	-	-	0.0	-	11.9
93.0	0.0	5.4	0.0	0.0	0.0	0.0	0.0	-	-	4.6	-	0.0
93.0	-	-	-	-	0.0	0.0	14.3	-	-	0.0	-	2.8
93.0	-	-	-	-	-	0.0	0.0	-	-	-	-	-
93.0	-	0.0	2.8	0.0	0.0	0.0	0.0	-	-	-	-	-
93.0	-	-	2.9	9.3	0.0	8.1	0.0	-	-	-	-	-
97.0	0.0	0.0	2.2	0.0	0.0	0.0	0.0	-	-	0.0	-	0.0
97.0	0.0	0.0	0.0	0.0	0.0	2.5	0.0	-	-	0.0	-	0.0
97.0	0.0	0.0	0.0	0.0	3.4	2.0	2.4	-	-	1.6	-	0.0
97.0	-	-	-	-	0.0	-	2.9	-	-	0.0	-	0.0
97.0	12.5	2.9	0.0	0.0	0.0	3.0	0.0	-	-	2.8	-	0.0
97.0	-	-	-	-	0.0	2.4	0.0	-	-	1.4	-	19.2
97.0	-	0.0	5.8	0.0	0.0	0.0	0.0	-	-	0.0	-	0.0
97.0	-	-	5.7	0.0	0.0	0.0	0.0	-	-	0.0	-	-
97.0	-	-	0.0	0.0	0.0	6.4	0.0	-	-	0.0	-	-
97.0	0.0	0.0	0.0	0.0	0.0	0.0	4.7	-	-	0.0	-	0.0
100.0	0.0	-	-	-	0.0	0.0	8.6	-	-	-	-	0.0
100.0	0.0	0.0	0.0	0.0	-	2.4	-	-	-	-	-	-
100.0	0.0	0.0	0.0	0.0	11.0	0.0	10.6	-	-	-	-	-
100.0	0.0	0.0	3.0	0.0	0.0	2.7	0.0	-	-	-	-	-
100.0	0.0	0.0	0.0	0.0	0.0	0.0	8.5	-	-	-	-	-
100.0	0.0	0.0	0.0	0.0	0.0	9.4	0.0	-	-	-	-	-
100.0	12.3	0.0	11.2	0.0	0.0	-	0.0	-	-	-	-	-
100.0	-	-	-	-	3.0	-	0.0	-	-	-	-	-
100.0	0.0	12.2	8.9	11.2	0.0	-	0.0	-	-	-	-	-
100.0	-	-	7.6	6.4	0.0	-	0.0	-	-	-	-	-
103.0	0.0	6.4	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
103.0	3.3	0.0	12.3	0.0	0.0	0.0	9.2	-	-	-	-	-
103.0	-	-	-	-	0.0	-	22.0	-	-	-	-	-
103.0	0.0	0.0	0.0	0.0	0.0	-	11.2	-	-	-	-	-
103.0	0.0	-	-	-	3.2	-	0.0	-	-	-	-	-
103.0	0.0	11.3	0.0	0.0	0.0	-	0.0	-	-	-	-	-
103.0	-	-	-	-	0.0	-	18.3	-	-	-	-	-
103.0	-	-	4.9	0.0	0.0	-	0.0	-	-	-	-	-
103.0	-	-	5.5	6.5	0.0	-	0.0	-	-	-	-	-
103.0	-	-	1.5	0.0	0.0	-	0.0	-	-	-	-	-
103.0	-	-	-	-	4.9	-	-	-	-	-	-	-
103.0	0.0	0.0	0.0	0.0	9.7	0.0	0.0	-	-	-	-	-
107.0	0.0	0.0	0.0	3.3	0.0	0.0	21.6	-	-	-	-	-
107.0	-	-	-	-	17.5	0.0	0.0	-	-	-	-	-
107.0	22.6	0.0	0.0	0.0	0.0	0.0	5.1	-	-	-	-	-

TABLE 4. (cont.)

*Protomyctophum crockeri* (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
107.0	55.0	-	3.2	-	0.0	0.0	9.0	-	-	-	-	-
107.0	60.0	3.5	-	0.0	6.9	0.0	0.0	-	-	-	-	-
107.0	65.0	-	-	0.0	0.0	3.7	-	-	-	-	-	-
107.0	70.0	-	24.8	0.0	0.0	0.0	0.0	-	-	-	-	-
107.0	80.0	-	3.0	4.5	0.0	0.0	0.0	-	-	-	-	-
107.0	90.0	-	6.6	0.0	0.0	0.0	0.0	-	-	-	-	-
110.0	35.0	10.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-
110.0	40.0	38.8	9.8	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-
110.0	50.0	16.3	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
110.0	65.0	-	-	-	0.0	3.4	-	-	-	-	-	-
110.0	70.0	7.0	0.0	10.3	0.0	0.0	0.0	-	-	-	-	-
110.0	80.0	0.0	3.0	4.8	10.7	0.0	0.0	-	-	-	-	-
110.0	90.0	-	0.0	0.0	4.9	0.0	0.0	-	-	-	-	-
113.0	30.0	-	2.2	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-
113.0	35.0	10.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-
113.0	40.0	5.9	0.0	0.0	0.0	6.4	9.6	0.0	0.0	-	-	-
113.0	45.0	-	3.2	-	0.0	9.1	0.0	-	-	-	-	-
113.0	50.0	5.5	6.1	0.0	9.9	15.8	0.0	-	-	-	-	-
113.0	55.0	-	4.4	-	0.0	0.0	0.0	-	-	-	-	-
113.0	70.0	2.5	0.0	0.0	0.0	0.0	7.2	-	-	-	-	-
113.0	80.0	-	0.0	4.4	0.0	0.0	0.0	7.0	0.0	-	-	-
115.0	40.0	-	-	-	-	-	-	0.0	7.6	-	-	-
117.0	35.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-
117.0	45.0	-	3.2	-	0.0	0.0	0.0	-	-	-	-	-
117.0	50.0	0.0	5.9	4.5	0.0	0.0	0.0	-	-	-	-	-
117.0	55.0	-	0.0	-	24.7	0.0	0.0	-	-	-	-	-
117.0	60.0	6.4	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
117.0	70.0	0.0	3.3	0.0	0.0	0.0	28.5	0.0	0.0	-	-	-
120.0	45.0	3.3	0.0	0.0	0.0	3.5	0.0	0.0	0.0	-	-	-
120.0	50.0	3.2	0.0	0.0	24.2	0.0	0.0	-	-	-	-	-
120.0	55.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
120.0	60.0	11.0	4.4	0.0	0.0	0.0	0.0	-	-	-	-	-
120.0	70.0	12.8	0.0	2.6	2.9	0.0	0.0	-	-	-	-	-
120.0	80.0	-	6.8	2.8	0.0	0.0	0.0	-	-	-	-	-
123.0	40.0	0.0	6.5	0.0	-	0.0	0.0	0.0	0.0	-	-	-
123.0	42.0	-	-	2.1	0.0	0.0	0.0	0.0	0.0	-	-	-
123.0	50.0	13.6	0.0	0.0	3.1	0.0	0.0	0.0	0.0	-	-	-
123.0	55.0	-	3.4	-	0.0	0.0	0.0	-	-	-	-	-
123.0	60.0	-	0.0	0.0	0.0	3.1	0.0	-	-	-	-	-
127.0	40.0	7.6	0.0	0.0	3.0	0.0	6.7	0.0	0.0	-	-	-
127.0	45.0	-	3.0	-	0.0	0.0	0.0	6.7	0.0	-	-	-
127.0	50.0	0.0	0.0	0.0	3.1	0.0	0.0	0.0	0.0	-	-	-
130.0	35.0	0.0	0.0	0.0	3.1	0.0	0.0	0.0	0.0	-	-	-
130.0	40.0	2.7	0.0	0.0	0.0	0.0	0.0	0.0	6.6	-	-	-
130.0	50.0	8.6	0.0	0.0	2.9	3.6	0.0	0.0	6.9	-	-	-
130.0	60.0	-	0.0	2.8	3.1	3.4	0.0	-	-	-	-	-

TABLE 4. (cont.)

*Protomyctophum crockeri* (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
133.0	40.0	0.0	0.0	0.0	8.5	0.0	0.0	-	-	-	-	-
133.0	60.0	-	3.3	-	-	-	-	-	-	-	-	-
137.0	40.0	0.0	0.0	3.2	0.0	0.0	0.0	-	-	-	-	-
147.0	40.0	-	-	1.9	-	-	-	-	-	-	-	-

*Symbolophorus californiensis*

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
70.0	70.0	-	-	0.0	1.3	-	0.0	-	-	-	-	-
80.0	60.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0	-	5.7	0.0
80.0	80.0	0.0	0.0	0.0	0.0	-	5.8	-	0.0	-	0.0	0.0
80.0	90.0	0.0	0.0	8.0	0.0	-	0.0	-	0.0	-	0.0	3.0
83.0	80.0	-	0.0	0.0	0.0	-	11.1	-	-	-	-	-
83.0	90.0	-	0.0	3.1	0.0	-	0.0	-	-	-	-	-
87.0	60.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	0.0	3.0	0.0
87.0	90.0	-	0.0	0.0	2.8	-	0.0	-	-	3.0	-	0.0
90.0	80.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	0.0	-	0.0
90.0	90.0	-	0.0	3.6	0.0	0.0	0.0	-	-	0.0	-	0.0
93.0	35.0	-	-	6.2	0.0	0.0	0.0	-	-	0.0	-	0.0
93.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	0.0	-	0.0
93.0	75.0	-	-	3.7	0.0	4.7	0.0	-	-	0.0	-	0.0
97.0	85.0	-	-	0.0	0.0	2.3	0.0	-	-	-	-	-
97.0	90.0	-	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
100.0	40.0	0.0	0.0	12.8	0.0	0.0	0.0	-	-	-	-	-
100.0	60.0	0.0	0.0	0.0	5.5	0.0	0.0	-	-	-	-	-
100.0	90.0	0.0	0.0	0.0	0.0	0.0	8.5	-	-	-	-	-
100.0	95.0	-	0.0	6.4	8.0	-	0.0	-	-	-	-	-
100.0	100.0	-	-	-	8.0	-	-	-	-	-	-	-
103.0	60.0	0.0	0.0	0.0	8.9	-	0.0	-	-	-	-	-
103.0	75.0	-	0.0	0.0	3.1	-	0.0	-	-	-	-	-
103.0	80.0	-	0.0	0.0	5.5	-	0.0	-	-	-	-	-
103.0	85.0	-	-	0.0	0.0	-	11.4	-	-	-	-	-
103.0	95.0	-	-	10.2	0.0	-	8.8	-	-	-	-	-
107.0	40.0	0.0	0.0	-	7.3	-	-	-	-	-	-	-
107.0	60.0	0.0	0.0	0.0	0.0	0.0	43.2	-	-	-	-	-
107.0	65.0	0.0	0.0	0.0	6.9	0.0	0.0	-	-	-	-	-
107.0	70.0	-	3.5	0.0	5.3	0.0	0.0	-	-	-	-	-
107.0	80.0	-	12.1	4.5	0.0	0.0	0.0	-	-	-	-	-
107.0	90.0	-	29.5	3.0	29.3	26.4	0.0	-	-	-	-	-
110.0	33.0	0.0	0.0	0.0	0.0	0.0	4.4	0.0	0.0	-	-	-
110.0	40.0	0.0	3.3	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-
110.0	70.0	7.0	0.0	12.3	0.0	0.0	0.0	0.0	0.0	-	-	-
110.0	75.0	-	0.0	-	6.1	0.0	0.0	-	-	-	-	-
110.0	80.0	0.0	0.0	4.8	0.0	0.0	0.0	-	-	-	-	-
110.0	90.0	-	5.1	2.1	0.0	0.0	0.0	-	-	-	-	-

TABLE 4. (cont.)

<i>Symbolophorus californiensis</i> (cont.)												
STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
113.0	60.0	0.0	0.0	21.7	0.0	0.0	0.0	-	-	-	-	-
113.0	70.0	0.0	0.0	0.0	0.0	0.0	7.2	-	-	-	-	-
113.0	75.0	-	-	11.0	0.0	0.0	-	-	-	-	-	-
117.0	55.0	-	0.0	8.2	0.0	0.0	0.0	-	-	-	-	-
120.0	60.0	3.7	3.6	0.0	0.0	0.0	0.0	-	-	-	-	-
120.0	70.0	0.0	2.9	0.0	0.0	0.0	0.0	-	-	-	-	-
120.0	80.0	0.0	0.0	0.0	2.7	0.0	0.0	-	-	-	-	-
123.0	55.0	0.0	0.0	3.3	0.0	0.0	0.0	0.0	0.0	-	-	-
127.0	40.0	0.0	0.0	3.0	0.0	0.0	0.0	0.0	0.0	-	-	-
127.0	45.0	-	0.0	3.2	0.0	0.0	0.0	0.0	0.0	-	-	-
130.0	35.0	0.0	0.0	0.0	0.0	3.6	0.0	0.0	0.0	-	-	-
130.0	50.0	0.0	0.0	0.0	0.0	3.6	0.0	-	-	-	-	-
<i>Tarletonbeania crenularis</i>												
STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
40.0	40.0	-	-	-	24.0	0.0	-	-	-	-	-	-
40.0	45.0	-	-	-	37.3	30.5	-	-	-	-	-	-
40.0	50.0	-	-	-	16.9	66.0	-	-	-	-	-	-
40.0	60.0	-	-	-	35.6	0.0	-	-	-	-	-	-
40.0	70.0	-	-	-	38.3	44.1	-	-	-	-	-	-
40.0	80.0	-	-	-	0.0	21.4	-	-	-	-	-	-
40.0	90.0	-	-	-	0.0	28.6	-	-	-	-	-	-
43.0	42.0	-	-	-	42.4	0.0	-	-	-	-	-	-
43.0	60.0	-	-	-	58.2	0.0	-	-	-	-	-	-
47.0	50.0	-	-	-	16.2	0.0	-	-	-	-	-	-
47.0	55.0	-	-	-	62.0	23.2	-	-	-	-	-	-
47.0	60.0	-	-	-	65.2	10.2	-	-	-	-	-	-
50.0	50.0	-	-	-	69.6	18.0	-	-	-	-	-	-
50.0	55.0	-	-	-	9.3	11.8	-	-	-	-	-	-
50.0	60.0	-	-	-	7.8	26.4	-	-	-	-	-	-
50.0	70.0	-	-	-	24.8	24.0	-	-	-	-	-	-
50.0	80.0	-	-	-	54.0	15.4	-	-	-	-	-	-
50.0	90.0	-	-	-	0.0	53.0	-	-	-	-	-	-
53.0	55.0	-	-	-	6.2	30.1	-	-	-	-	-	-
53.0	65.0	-	-	-	44.2	0.0	-	-	-	-	-	-
57.0	55.0	-	-	-	16.8	13.9	-	-	-	-	-	-
60.0	55.0	-	-	-	0.0	0.0	7.4	-	-	-	-	-
60.0	57.0	-	-	-	3.1	0.0	-	-	-	-	-	-
60.0	60.0	-	-	-	10.0	3.7	5.4	-	-	-	-	-
60.0	70.0	-	-	-	23.8	5.8	30.2	-	-	-	-	-
60.0	80.0	-	-	-	0.0	56.9	0.0	-	-	-	-	-
60.0	90.0	-	-	-	13.6	21.9	0.0	-	-	-	-	-
63.0	52.0	-	-	-	0.0	-	0.0	-	-	-	-	-
63.0	60.0	-	-	-	1.0	-	0.0	-	-	-	-	-
		-	-	-	-	-	11.7	-	-	-	-	-

TABLE 4. (cont.)

*Tarletonbeania crenularis* (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
63.0	65.0	-	-	0.0	10.3	-	-	-	-	-	-	-
63.0	80.0	-	-	31.3	-	-	26.6	-	-	-	-	-
63.0	90.0	-	-	-	-	-	11.8	-	-	-	-	-
67.0	50.0	-	-	0.0	0.0	-	9.2	-	-	-	-	-
67.0	55.0	-	-	0.0	0.0	-	21.6	-	-	-	-	-
67.0	60.0	-	-	-	-	-	20.6	-	-	-	-	-
67.0	65.0	-	-	0.0	10.0	-	-	-	-	-	-	-
67.0	70.0	-	-	-	-	-	13.2	-	-	-	-	-
67.0	80.0	-	-	0.0	-	-	12.4	-	-	-	-	-
70.0	52.0	-	-	24.5	4.2	-	0.0	-	-	-	-	-
70.0	55.0	-	-	37.9	2.4	-	0.0	-	-	-	-	-
70.0	60.0	-	-	21.7	3.2	-	0.0	-	-	-	-	-
70.0	70.0	-	-	0.0	20.0	-	20.7	-	-	-	-	-
70.0	80.0	-	-	56.7	12.9	-	21.4	-	-	-	-	-
70.0	90.0	-	-	12.8	6.4	-	0.0	-	-	-	-	-
73.0	50.0	-	-	3.3	0.0	-	0.0	-	-	-	-	-
73.0	60.0	-	-	0.0	3.1	-	35.8	-	-	-	-	-
73.0	70.0	-	-	0.0	0.0	-	7.5	-	-	-	-	-
73.0	80.0	-	-	0.0	0.0	-	21.3	-	-	-	-	-
73.0	90.0	-	-	-	0.0	-	13.7	-	-	-	-	-
77.0	55.0	-	-	0.0	6.3	-	0.0	-	-	-	-	-
77.0	60.0	-	-	-	23.8	-	6.2	-	-	-	-	-
77.0	70.0	-	-	-	10.4	-	18.3	-	-	-	-	-
77.0	80.0	-	-	-	0.0	-	13.5	-	-	-	-	-
77.0	90.0	-	-	-	-	-	13.8	-	-	-	-	-
80.0	55.0	-	-	9.7	0.0	-	3.0	-	2.9	-	3.1	0.0
80.0	60.0	-	-	8.2	7.0	-	20.7	-	0.0	-	0.0	0.0
80.0	70.0	-	-	40.6	0.0	-	11.6	-	5.8	-	19.4	6.4
80.0	80.0	-	-	3.7	4.7	-	0.0	-	0.0	-	0.0	0.0
80.0	90.0	-	-	17.9	2.7	-	0.0	-	0.0	-	0.0	0.0
82.0	47.0	-	-	0.0	4.9	0.0	0.0	-	0.0	-	0.0	0.0
83.0	43.0	-	-	0.0	0.0	-	0.0	-	0.0	-	0.0	0.0
83.0	51.0	-	-	0.0	2.8	-	0.0	-	0.0	-	0.0	0.0
83.0	55.0	-	-	0.0	5.8	-	0.0	-	0.0	-	0.0	0.0
83.0	60.0	-	-	29.8	5.6	-	5.7	-	0.0	-	0.0	0.0
83.0	70.0	-	-	5.4	21.0	-	0.0	-	-	-	-	-
83.0	80.0	-	-	3.1	1.2	-	0.0	-	-	-	-	-
83.0	90.0	-	-	0.0	1.4	-	0.0	-	-	-	-	-
87.0	50.0	-	-	0.0	0.0	-	0.0	-	0.0	-	2.7	2.7
87.0	55.0	-	-	2.6	0.0	0.0	11.3	-	0.0	-	0.0	3.2
87.0	60.0	-	-	7.6	2.4	11.5	31.8	-	0.0	-	0.0	0.0
87.0	65.0	-	-	-	10.8	0.0	3.2	-	-	-	-	-
87.0	70.0	-	-	0.0	14.5	0.0	0.0	-	-	-	-	-
87.0	75.0	-	-	13.9	22.5	0.0	3.0	-	-	-	-	-
87.0	80.0	-	-	9.0	0.0	0.0	0.0	-	-	-	-	-
87.0	90.0	-	-	2.9	0.0	-	0.0	-	-	-	-	-

TABLE 4. (cont.)

		<i>Tarletonbeania crenularis</i> (cont.)											
STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.	
90.0	28.0	0.0	2.7	0.0	0.0	0.0	0.0	-	-	0.0	-	0.0	
90.0	37.0	13.6	0.0	3.3	5.3	0.0	12.6	-	-	0.0	-	2.8	
90.0	45.0	5.5	6.5	2.8	0.0	0.0	3.4	-	-	0.0	0.0	0.0	
90.0	50.0	-	-	-	4.6	0.0	0.0	-	-	3.0	0.0	0.0	
90.0	55.0	6.0	30.5	17.3	14.4	45.0	5.2	-	-	0.0	0.0	0.0	
90.0	60.0	4.0	0.0	15.9	6.3	0.0	0.0	-	-	0.0	0.0	0.0	
90.0	65.0	-	-	-	2.4	0.0	0.0	-	-	-	-	-	
90.0	70.0	0.0	3.0	0.0	0.0	5.5	6.2	-	0.0	-	-	0.0	
90.0	75.0	-	-	-	0.0	4.8	0.0	-	-	-	-	-	
90.0	80.0	0.0	0.0	0.0	9.5	6.2	0.0	-	0.0	-	-	0.0	
90.0	90.0	-	13.7	7.2	6.4	5.9	0.0	-	0.0	-	-	0.0	
93.0	27.0	2.6	0.0	0.0	0.0	0.0	0.0	-	0.0	-	-	0.0	
93.0	40.0	0.0	11.0	0.0	0.0	0.0	0.0	-	0.0	-	-	0.0	
93.0	45.0	-	-	-	0.0	5.9	10.9	-	-	-	-	0.0	
93.0	50.0	0.0	0.0	0.0	14.2	0.0	0.0	-	-	-	-	0.0	
93.0	55.0	-	-	-	0.0	3.8	0.0	-	-	-	-	0.0	
93.0	60.0	-	5.8	0.0	0.0	0.0	0.0	-	1.4	-	-	0.0	
93.0	65.0	-	-	-	-	0.0	14.3	-	-	-	-	-	
93.0	70.0	-	5.6	6.8	0.0	0.0	13.6	-	-	-	-	-	
93.0	75.0	-	-	-	3.0	14.0	0.0	-	-	-	-	-	
93.0	85.0	-	-	-	4.0	0.0	0.0	-	-	-	-	-	
93.0	100.0	-	-	-	0.0	-	-	-	-	-	-	-	
97.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	0.0	-	0.0	
97.0	45.0	-	-	-	3.8	-	0.0	-	-	0.0	-	0.0	
97.0	50.0	0.0	0.0	0.0	0.0	3.0	0.0	-	-	0.0	-	0.0	
97.0	60.0	-	2.9	5.7	0.0	2.0	0.0	-	-	0.0	-	0.0	
97.0	65.0	-	-	-	21.0	6.9	17.2	-	-	-	-	-	
97.0	70.0	-	2.8	8.4	0.0	0.0	0.0	-	-	-	-	-	
97.0	80.0	-	0.0	3.2	12.1	0.0	0.0	-	-	-	-	-	
100.0	33.0	-	0.0	-	-	0.0	-	-	-	-	-	-	
100.0	35.0	-	-	-	3.1	2.7	0.0	-	-	-	-	-	
100.0	40.0	0.0	0.0	3.4	5.5	0.0	0.0	-	-	-	-	-	
100.0	50.0	0.0	0.0	6.7	0.0	0.0	0.0	-	-	-	-	-	
100.0	60.0	0.0	0.0	0.0	6.1	0.0	0.0	-	-	-	-	-	
100.0	65.0	-	-	-	6.1	0.0	0.0	-	-	-	-	-	
100.0	70.0	0.0	5.6	0.0	0.0	0.0	0.0	-	-	-	-	-	
100.0	80.0	0.0	3.0	3.7	4.6	-	0.0	-	-	-	-	-	
100.0	90.0	-	0.0	6.4	0.0	-	0.0	-	-	-	-	-	
103.0	45.0	-	-	-	2.9	-	0.0	-	-	-	-	-	
103.0	50.0	11.6	0.0	0.0	0.0	-	0.0	-	-	-	-	-	
103.0	70.0	-	1.7	0.0	0.0	-	0.0	-	-	-	-	-	
103.0	95.0	-	-	-	4.9	-	-	-	-	-	-	-	
107.0	50.0	0.0	3.3	0.0	0.0	0.0	0.0	-	-	-	-	-	
113.0	35.0	0.0	0.0	0.0	0.0	0.0	9.0	0.0	-	-	-	-	



TABLE 4. (cont.)

*Synodus spp.*

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
110.0	80.0	0.0	6.1	0.0	0.0	0.0	0.0	-	-	-	-	-
113.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	-	-	-
115.0	27.0	-	-	-	-	-	-	0.0	4.1	-	-	-
115.0	30.0	-	-	-	-	-	-	0.0	23.6	-	-	-
115.0	35.0	-	-	-	-	-	-	3.8	0.0	-	-	-
115.0	40.0	-	-	-	-	-	-	0.0	5.6	-	-	-
117.0	26.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.9	-	-	-
117.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.8	-	-	-
117.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	0.0	-	-	-
118.5	25.0	-	-	-	-	-	-	39.3	17.5	-	-	-
118.5	30.0	-	-	-	-	-	-	3.2	87.3	-	-	-
118.5	35.0	-	-	-	-	-	-	0.0	13.8	-	-	-
119.0	33.0	6.1	0.0	0.0	0.0	0.0	0.0	21.1	3.7	-	-	-
120.0	25.0	9.6	0.0	0.0	0.0	0.0	0.0	300.8	24.5	-	-	-
120.0	30.0	11.2	0.0	0.0	0.0	0.0	0.0	53.0	8.2	-	-	-
120.0	35.0	-	-	-	-	-	-	0.0	7.8	-	-	-
120.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.2	-	-	-
123.0	37.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.5	-	-	-
130.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.6	-	-	-
130.0	35.0	0.0	0.0	0.0	0.0	0.0	0.0	14.3	6.9	-	-	-
130.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	-	-	-
133.0	25.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.0	-	-	-
133.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-
137.0	23.0	5.0	0.0	0.0	0.0	0.0	0.0	10.5	0.0	-	-	-
140.0	30.0	0.0	-	-	-	-	-	-	-	-	-	-
143.0	26.0	2.7	-	-	-	-	-	-	-	-	-	-
147.0	20.0	189.0	-	-	-	-	-	-	-	-	-	-
147.0	25.0	14.6	-	-	-	-	-	-	-	-	-	-
153.0	20.0	2.7	-	-	-	-	-	-	-	-	-	-

*Merluccius productus*

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
70.0	90.0	-	-	0.0	1.1	-	0.0	-	-	-	-	-
80.0	55.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0	-	0.0	5.9
80.0	60.0	3.2	0.0	0.0	1.6	-	0.0	-	0.0	-	0.0	0.0
80.0	70.0	0.0	3.2	0.0	2.7	-	0.0	-	0.0	-	0.0	0.0
80.0	80.0	0.0	14.5	3.7	4.7	-	0.0	-	0.0	-	0.0	0.0
80.0	90.0	0.0	20.9	7.3	0.0	-	0.0	-	0.0	-	0.0	0.0
82.0	47.0	0.0	3.0	0.0	0.0	0.0	0.0	-	5.7	-	0.0	2.9
83.0	43.0	2.1	0.0	0.0	0.0	-	0.0	-	0.0	-	0.0	3.1
83.0	51.0	0.0	5.3	0.0	0.0	-	0.0	-	0.0	-	0.0	3.2
83.0	60.0	0.0	11.9	0.0	0.0	-	0.0	-	0.0	-	0.0	0.0
83.0	70.0	-	27.2	16.2	5.7	-	0.0	-	0.0	-	0.0	-
83.0	80.0	-	18.5	3.3	2.3	-	0.0	-	-	-	-	-

TABLE 4. (cont.)

STATION	<i>Merluccius productus</i> (cont.)											
	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
83.0	90.0	-	13.0	55.1	0.0	-	0.0	-	-	-	-	-
87.0	36.0	13.4	0.0	0.0	2.5	0.0	0.0	-	-	-	0.0	0.0
87.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	0.0	25.2
87.0	50.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	0.0	0.0
87.0	60.0	0.0	38.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.0	65.0	-	-	-	5.4	10.7	0.0	-	-	-	-	-
87.0	70.0	-	47.1	7.1	0.0	0.0	0.0	-	-	-	-	-
87.0	75.0	-	-	-	2.0	0.0	0.0	-	-	-	-	-
87.0	80.0	-	98.7	0.0	0.0	0.0	0.0	-	-	-	-	-
87.0	90.0	-	287.1	8.8	0.0	0.0	0.0	-	-	-	-	-
90.0	28.0	10.9	5.3	3.9	0.0	0.0	0.0	-	0.0	-	-	0.0
90.0	30.0	0.0	12.5	0.0	0.0	0.0	0.0	-	0.0	-	-	0.0
90.0	37.0	0.0	0.0	3.3	0.0	0.0	0.0	-	0.0	-	-	0.0
90.0	45.0	5.5	6.5	0.0	0.0	0.0	0.0	-	0.0	-	-	0.0
90.0	55.0	0.0	24.4	8.7	0.0	0.0	0.0	-	0.0	-	-	0.0
90.0	60.0	0.0	47.6	0.0	0.0	0.0	0.0	-	0.0	-	-	0.0
90.0	70.0	0.0	252.0	21.2	0.0	0.0	0.0	-	0.0	-	-	0.0
90.0	75.0	-	-	-	0.0	1.6	0.0	-	-	-	-	-
90.0	80.0	0.0	40.8	0.0	9.5	1.7	0.0	-	0.0	-	-	0.0
90.0	90.0	-	128.8	0.0	0.0	0.0	0.0	-	0.0	-	-	0.0
93.0	27.0	2.3	0.0	0.0	0.0	0.0	0.0	-	0.0	-	-	0.0
93.0	30.0	14.0	4.1	3.0	0.0	0.0	0.0	-	0.0	-	-	0.0
93.0	40.0	0.0	2.7	0.0	0.0	0.0	0.0	-	0.0	-	-	0.0
93.0	50.0	0.0	0.0	4.0	0.0	0.0	0.0	-	0.0	-	-	0.0
93.0	60.0	0.0	87.3	3.0	0.0	0.0	0.0	-	0.0	-	-	0.0
93.0	70.0	-	180.7	0.0	0.0	0.0	13.6	-	-	-	-	-
93.0	75.0	-	-	-	0.0	4.7	0.0	-	-	-	-	-
93.0	80.0	-	155.1	2.9	6.2	0.0	0.0	-	-	-	-	-
93.0	85.0	-	-	-	8.9	0.0	0.0	-	-	-	-	-
93.0	90.0	-	127.2	4.6	0.0	0.0	0.0	-	-	-	-	-
97.0	30.0	0.0	13.0	0.0	0.0	0.0	0.0	-	0.0	-	-	0.0
97.0	32.0	0.0	8.9	0.0	0.0	0.0	0.0	-	0.0	-	-	0.0
97.0	40.0	6.1	0.0	7.2	3.4	0.0	0.0	-	0.0	-	-	0.0
97.0	50.0	0.0	11.8	7.2	0.0	0.0	0.0	-	0.0	-	-	0.0
97.0	55.0	-	-	-	3.8	0.0	0.0	-	0.0	-	-	0.0
97.0	60.0	33.7	32.1	5.7	12.8	8.2	0.0	-	0.0	-	-	0.0
97.0	70.0	0.0	569.2	7.8	0.0	0.0	0.0	-	-	-	-	-
97.0	80.0	-	690.1	4.2	12.1	0.0	0.0	-	-	-	-	-
97.0	90.0	-	58.5	127.6	25.0	0.0	0.0	-	-	-	-	-
100.0	29.0	49.6	41.9	0.0	0.0	0.0	0.0	-	-	-	-	-
100.0	30.0	6.4	-	-	3.2	-	0.0	-	-	-	-	-
100.0	33.0	73.4	27.4	3.2	-	0.0	0.0	-	-	-	-	-
100.0	40.0	2.5	21.1	3.4	5.5	0.0	0.0	-	-	-	-	-
100.0	50.0	35.5	6.7	16.6	0.0	0.0	0.0	-	-	-	-	-
100.0	60.0	0.0	16.4	10.4	0.0	0.0	0.0	-	-	-	-	-
100.0	70.0	0.0	688.0	0.0	0.0	0.0	0.0	-	-	-	-	-

TABLE 4. (cont.)

*Merluccius productus* (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
100.0	80.0	0.0	25753.0	285.1	11.2	-	0.0	-	-	-	-	-
100.0	90.0	-	-	270.9	44.7	-	0.0	-	-	-	-	-
100.0	95.0	-	-	-	15.9	-	0.0	-	-	-	-	-
100.0	100.0	-	-	-	11.9	-	-	-	-	-	-	-
103.0	30.0	3.0	17.4	29.8	0.0	0.0	0.0	-	-	-	-	-
103.0	35.0	0.0	50.9	196.5	0.0	0.0	0.0	-	-	-	-	-
103.0	40.0	16.6	287.8	499.0	6.7	0.0	0.0	-	-	-	-	-
103.0	50.0	0.0	0.0	163.9	9.5	-	0.0	-	-	-	-	-
103.0	60.0	0.0	22.6	383.1	0.0	-	0.0	-	-	-	-	-
103.0	70.0	-	-	309.4	0.0	-	0.0	-	-	-	-	-
103.0	80.0	-	-	140.9	5.9	-	0.0	-	-	-	-	-
103.0	90.0	-	-	17.7	6.5	-	0.0	-	-	-	-	-
103.0	95.0	-	-	-	0.0	-	0.0	-	-	-	-	-
107.0	100.0	-	-	-	2.4	-	-	-	-	-	-	-
107.0	100.0	-	-	-	12.0	-	-	-	-	-	-	-
107.0	32.0	45.9	102.3	640.2	2.5	0.0	0.0	-	-	-	-	-
107.0	35.0	65.0	586.7	604.8	0.0	0.0	0.0	-	-	-	-	-
107.0	40.0	142.8	114.4	124.2	0.0	0.0	0.0	-	-	-	-	-
107.0	50.0	19.4	906.0	115.5	2.2	0.0	0.0	-	-	-	-	-
107.0	60.0	0.0	184.1	148.6	4.9	0.0	0.0	-	-	-	-	-
107.0	70.0	-	-	605.3	0.0	0.0	0.0	-	-	-	-	-
107.0	80.0	-	-	0.0	18.2	0.0	0.0	-	-	-	-	-
107.0	85.0	-	-	-	5.9	0.0	0.0	-	-	-	-	-
110.0	33.0	212.0	38.9	9.8	3.0	0.0	0.0	16.3	0.0	-	-	-
110.0	35.0	142.1	108.8	31.5	0.0	0.0	8.7	0.0	0.0	-	-	-
110.0	40.0	8.3	1020.7	296.1	95.4	0.0	8.6	0.0	0.0	-	-	-
110.0	50.0	0.0	637.0	247.8	22.2	0.0	0.0	0.0	0.0	-	-	-
110.0	60.0	0.0	11.4	296.4	0.0	0.0	0.0	-	-	-	-	-
110.0	70.0	0.0	53.0	228.8	0.0	0.0	0.0	-	-	-	-	-
110.0	80.0	0.0	6.4	165.9	2.0	0.0	0.0	-	-	-	-	-
110.0	90.0	-	-	76.0	0.0	0.0	0.0	-	-	-	-	-
113.0	30.0	-	143.5	10.3	0.0	0.0	0.0	-	-	-	-	-
113.0	35.0	3.6	189.0	25.9	0.0	0.0	0.0	0.0	0.0	-	-	-
113.0	40.0	0.0	1965.9	151.3	0.0	0.0	0.0	0.0	0.0	-	-	-
113.0	45.0	-	-	309.8	0.0	0.0	0.0	0.0	0.0	-	-	-
113.0	50.0	49.5	280.6	225.4	-	0.0	0.0	-	-	-	-	-
113.0	55.0	-	-	78.0	0.0	0.0	0.0	-	-	-	-	-
113.0	60.0	0.0	57.5	56.9	0.0	0.0	0.0	-	-	-	-	-
113.0	70.0	0.0	638.7	11.0	10.8	0.0	0.0	-	-	-	-	-
113.0	80.0	-	-	10.9	0.0	0.0	0.0	-	-	-	-	-
115.0	27.0	-	-	-	0.0	0.0	0.0	23.8	0.0	-	-	-
117.0	26.0	66.2	90.8	88.0	7.6	10.1	13.8	7.4	0.0	-	-	-
117.0	30.0	5.5	15.5	105.8	0.0	10.2	0.0	0.0	0.0	-	-	-
117.0	35.0	20.9	224.6	177.3	10.4	0.0	0.0	0.0	0.0	-	-	-
117.0	40.0	136.8	823.4	146.2	0.0	0.0	0.0	0.0	0.0	-	-	-
117.0	45.0	-	-	96.0	0.0	0.0	0.0	-	-	-	-	-

TABLE 4. (cont.)

STATION	<i>Merluccius productus</i> (cont.)												
	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.	
117.0	50.0	45.4	28.7	64.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.0	55.0	0.0	4.9	311.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.0	60.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.0	70.0	0.0	0.0	0.0	7.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.0	80.0	0.0	0.0	0.0	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
118.0	39.0	673.4	767.2	112.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
119.0	33.0	3.0	5.0	170.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120.0	25.0	80.3	9.9	282.0	11.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120.0	30.0	72.5	0.0	127.6	22.5	12.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120.0	40.0	0.0	1798.8	32.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120.0	45.0	0.0	310.1	15.6	28.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120.0	50.0	3.2	0.0	0.0	9.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120.0	55.0	0.0	0.0	0.0	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
123.0	37.0	0.0	48.2	26.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
123.0	40.0	2.8	0.0	42.4	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
123.0	42.0	0.0	130.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
123.0	45.0	0.0	0.0	87.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
123.0	50.0	0.0	0.0	6.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
123.0	55.0	2.7	0.0	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
123.0	60.0	0.0	0.0	0.0	5.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.0	34.0	0.0	5.6	2.7	15.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.0	40.0	0.0	0.0	0.0	36.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.0	45.0	0.0	0.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.0	50.0	0.0	59.2	18.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.0	55.0	11.8	281.9	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.0	60.0	0.0	0.0	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130.0	30.0	0.0	0.0	2.5	7.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130.0	35.0	0.0	0.0	0.0	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130.0	40.0	0.0	0.0	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130.0	50.0	0.0	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
133.0	25.0	112.0	12.4	33.3	17.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
133.0	30.0	672.0	342.0	40.3	0.0	12.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
133.0	40.0	0.0	10.8	19.5	0.0	12.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
133.0	50.0	0.0	0.0	79.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
133.0	60.0	0.0	0.0	58.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.0	23.0	2.5	32.3	38.2	19.5	24.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.0	30.0	181.4	300.7	365.8	121.3	66.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.0	40.0	5.0	261.0	92.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.0	50.0	0.0	0.0	6.9	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140.0	30.0	0.0	308.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140.0	35.0	49.8	136.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140.0	40.0	2.3	29.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
143.0	26.0	0.0	5.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
143.0	30.0	30942.3	62.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
143.0	35.0	247.3	10.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.0	20.0	88.2	86.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TABLE 4. (cont.)

*Merluccius productus* (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
147.0	25.0	81.3	-	0.0	-	-	-	-	-	-	-	-
147.0	30.0	73.1	-	0.0	-	-	-	-	-	-	-	-
147.0	35.0	55.5	-	0.0	-	-	-	-	-	-	-	-
147.0	40.0	33.7	-	0.0	-	-	-	-	-	-	-	-
150.0	19.0	11.8	-	0.0	-	-	-	-	-	-	-	-
150.0	25.0	0.0	-	0.0	-	-	-	-	-	-	-	-
150.0	30.0	0.0	-	0.0	-	-	-	-	-	-	-	-
150.0	40.0	2.3	-	0.0	-	-	-	-	-	-	-	-

*Physiculus* spp.

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
147.0	40.0	0.0	-	3.9	-	-	-	-	-	-	-	-
150.0	40.0	0.0	-	3.4	-	-	-	-	-	-	-	-

## Macrouridae

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
80.0	55.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0	-	3.1	0.0
90.0	60.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	0.0	0.0	0.0
107.0	80.0	-	3.0	0.0	0.0	0.0	0.0	-	-	-	-	-
127.0	50.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
137.0	30.0	0.0	6.2	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-
150.0	30.0	0.0	-	2.1	-	-	-	-	-	-	-	-

## Ophidiiformes

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
40.0	45.0	-	-	-	4.7	0.0	-	-	-	-	-	-
40.0	70.0	-	-	-	19.2	0.0	-	-	-	-	-	-
67.0	55.0	-	-	0.0	0.0	-	10.8	-	-	-	-	-
70.0	60.0	-	-	0.0	0.0	-	25.1	-	-	-	-	-
80.0	60.0	0.0	0.0	0.0	3.9	-	0.0	-	0.0	-	0.0	0.0
87.0	36.0	0.0	0.0	0.0	10.1	0.0	0.0	-	-	-	0.0	0.0
90.0	28.0	0.0	0.0	1.9	0.0	0.0	0.0	-	-	0.0	-	-
90.0	80.0	0.0	3.1	0.0	0.0	0.0	0.0	-	-	0.0	-	-
93.0	30.0	0.0	8.2	0.0	0.0	0.0	0.0	-	-	0.0	-	-
93.0	60.0	0.0	0.0	0.0	0.0	5.7	0.0	-	-	0.0	-	-
100.0	29.0	0.0	0.0	0.0	0.0	7.6	0.0	-	-	-	-	-
113.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	-	-	-
113.0	35.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	-	-	-
117.0	26.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	-	-	-
117.0	35.0	0.0	0.0	5.2	23.5	0.0	27.6	0.0	5.0	-	-	-

TABLE 4. (cont.)

Ophidiiformes (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
118.5	30.0	-	-	-	-	-	-	0.0	14.0	-	-	-
120.0	35.0	-	-	-	-	-	-	9.4	24.5	-	-	-
120.0	40.0	0.0	0.0	0.0	0.0	0.0	8.5	2.2	3.9	-	-	-
123.0	37.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	49.9	-	-	-
123.0	42.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	45.8	-	-	-
123.0	45.0	-	0.0	0.0	0.0	0.0	0.0	0.0	21.8	-	-	-
127.0	34.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	-	-	-
130.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3	-	-	-
130.0	35.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.6	-	-	-
130.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.7	-	-	-
133.0	25.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	-	-	-
133.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.9	-	-	-
137.0	23.0	2.5	0.0	0.0	0.0	0.0	0.0	63.1	0.0	-	-	-
137.0	40.0	0.0	6.1	0.0	0.0	0.0	0.0	-	-	-	-	-
137.0	50.0	-	3.4	-	0.0	0.0	0.0	-	-	-	-	-

Brosmophycis marginata

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
63.0	52.0	-	-	0.0	1.0	-	0.0	-	-	-	-	-
73.0	50.0	-	-	0.0	0.0	-	2.6	-	-	-	-	-
83.0	55.0	-	-	0.0	2.8	-	0.0	-	0.0	-	0.0	0.0
83.0	60.0	0.0	0.0	0.0	1.2	-	0.0	-	0.0	-	0.0	0.0
87.0	40.0	0.0	6.4	0.0	0.0	0.0	0.0	-	0.0	-	0.0	0.0
87.0	45.0	-	-	-	3.0	0.0	0.0	-	0.0	-	0.0	0.0
87.0	50.0	0.0	0.0	0.0	2.0	0.0	0.0	-	0.0	-	0.0	0.0
90.0	55.0	0.0	0.0	0.0	14.4	0.0	0.0	-	0.0	0.0	0.0	0.0
97.0	32.0	0.0	0.0	0.0	3.5	0.0	0.0	-	-	0.0	-	-
100.0	33.0	0.0	0.0	0.0	-	2.4	-	-	-	-	-	-
110.0	33.0	0.0	0.0	0.0	23.8	0.0	0.0	0.0	0.0	-	-	-
110.0	35.0	0.0	0.0	3.0	0.0	0.0	0.0	0.0	0.0	-	-	-

Carapidae

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
150.0	25.0	0.0	3.2	0.0	0.0	-	-	-	-	-	-	-
150.0	30.0	3.0	0.0	0.0	-	-	-	-	-	-	-	-

Chilara taylori

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
113.0	30.0	-	0.0	0.0	0.0	0.0	0.0	0.0	2.4	-	-	-
115.0	30.0	-	-	-	-	-	-	0.0	15.8	-	-	-

TABLE 4. (cont.)

*Chilara taylori* (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
117.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	-	-	-
120.0	50.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
123.0	45.0	-	0.0	-	-	-	-	0.0	21.8	-	-	-
127.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	-	-	-
127.0	45.0	-	0.0	-	0.0	0.0	0.0	6.7	3.6	-	-	-
137.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-

*Ophidion scrippsae*

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
83.0	43.0	0.0	0.0	0.0	0.0	-	0.0	-	2.8	-	0.0	0.0
97.0	32.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	3.2	-	0.0
115.0	27.0	-	-	-	-	-	-	7.9	4.1	-	-	-
115.0	30.0	-	-	-	-	-	-	0.0	7.9	-	-	-
118.5	30.0	-	-	-	-	-	-	3.2	0.0	-	-	-
120.0	25.0	0.0	0.0	0.0	0.0	0.0	0.0	21.1	0.0	-	-	-
120.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-
120.0	45.0	0.0	0.0	0.0	0.0	0.0	0.0	60.2	0.0	-	-	-
123.0	37.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.0	-	-	-
123.0	42.0	0.0	0.0	0.0	0.0	0.0	0.0	79.5	0.0	-	-	-
127.0	34.0	0.0	0.0	0.0	0.0	0.0	0.0	5.9	0.0	-	-	-
127.0	45.0	-	0.0	0.0	0.0	0.0	0.0	56.2	0.0	-	-	-
130.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6	-	-	-
130.0	35.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	41.0	-	-	-
130.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	43.0	0.0	-	-	-
133.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	49.0	0.0	-	-	-
137.0	23.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	43.8	-	-	-
147.0	25.0	0.0	0.0	0.0	0.0	0.0	0.0	63.1	0.0	-	-	-

## Ceratioidei

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
157.0	10.0	2.1	-	-	-	-	-	-	-	-	-	-
157.0	20.0	0.0	2.5	0.0	-	-	-	-	-	-	-	-

## Exocoetidae

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
127.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	-	-	-

TABLE 4. (cont.)

*Cololabis saira*

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
80.0	90.0	0.0	0.0	0.0	1.4	-	0.0	-	0.0	-	0.0	0.0
90.0	60.0	3.1	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	0.0	0.0
90.0	90.0	-	2.7	0.0	0.0	0.0	0.0	-	-	0.0	-	0.0
90.0	95.0	-	-	-	3.2	-	-	-	-	-	-	-
93.0	30.0	0.0	4.1	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
93.0	45.0	-	-	-	0.0	0.0	0.0	-	-	1.5	-	0.0
93.0	50.0	2.7	0.0	0.0	0.0	0.0	0.0	-	-	0.0	-	0.0
97.0	32.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	6.5	-	0.0
97.0	45.0	-	-	-	0.0	-	0.0	-	-	3.1	-	0.0
97.0	55.0	-	-	-	15.4	0.0	0.0	-	-	0.0	-	0.0
97.0	70.0	0.0	3.1	0.0	0.0	0.0	0.0	-	-	-	-	-
97.0	80.0	-	2.8	0.0	0.0	0.0	0.0	-	-	-	-	-
97.0	85.0	-	-	-	11.5	0.0	0.0	-	-	-	-	-
107.0	65.0	-	-	-	5.3	0.0	-	-	-	-	-	-
110.0	40.0	12.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-
113.0	40.0	0.0	0.0	2.4	0.0	0.0	0.0	0.0	0.0	-	-	-
113.0	70.0	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-
113.0	75.0	-	-	-	11.0	0.0	-	-	-	-	-	-
117.0	60.0	0.0	0.0	0.0	0.0	6.9	0.0	-	-	-	-	-
120.0	60.0	0.0	0.0	0.0	0.0	0.0	3.1	-	-	-	-	-
123.0	55.0	-	0.0	0.0	0.0	0.0	2.8	-	-	-	-	-
123.0	60.0	-	0.0	2.6	0.0	0.0	0.0	-	-	-	-	-
130.0	30.0	0.0	0.0	0.0	0.0	6.2	0.0	0.0	0.0	-	-	-

## Atherinidae

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
83.0	51.0	0.0	5.3	0.0	0.0	-	0.0	-	0.0	-	0.0	0.0
100.0	30.0	0.0	-	0.0	0.0	-	8.6	-	-	-	-	-
113.0	30.0	-	0.0	0.0	0.0	0.0	4.3	0.0	0.0	-	-	-

## Trachipteridae

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
47.0	60.0	-	-	-	13.0	0.0	-	-	-	-	-	-
80.0	60.0	0.0	2.7	0.0	0.0	-	0.0	-	0.0	-	0.0	0.0
83.0	43.0	3.0	0.0	0.0	0.0	-	0.0	-	0.0	-	0.0	0.0
90.0	90.0	-	0.0	0.0	0.0	0.0	0.0	-	-	3.0	-	0.0
93.0	50.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	0.0	-	2.9
93.0	55.0	-	-	-	0.0	0.0	0.0	-	-	0.0	-	2.8
93.0	70.0	0.0	0.0	0.0	0.0	0.0	27.2	-	-	-	-	0.0
97.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	1.6	-	0.0
100.0	40.0	0.0	0.0	3.4	0.0	0.0	0.0	-	-	-	-	-
103.0	40.0	0.0	0.0	0.0	0.0	2.6	0.0	-	-	-	-	-



TABLE 4. (cont.)

## Trachipteridae (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
107.0	60.0	0.0	0.0	4.9	0.0	0.0	0.0	-	-	-	-	-
110.0	70.0	0.0	0.0	2.0	0.0	0.0	0.0	-	-	-	-	-

*Melamphaes* spp.

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
50.0	90.0	-	-	-	13.4	0.0	-	-	-	-	-	-
53.0	65.0	-	-	-	0.0	22.7	-	-	-	-	-	-
60.0	60.0	-	-	0.0	11.5	0.0	0.0	-	-	-	-	-
77.0	60.0	-	-	-	3.2	-	0.0	-	-	-	-	-
77.0	70.0	-	-	-	3.0	-	0.0	-	-	-	-	-
80.0	70.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0	-	0.0	0.0
80.0	80.0	0.0	2.4	7.5	13.3	-	5.8	-	0.0	-	6.3	6.1
80.0	90.0	0.0	3.0	7.3	0.0	-	0.0	-	3.0	-	0.0	0.0
83.0	60.0	0.0	0.0	0.0	0.0	-	5.7	-	0.0	-	0.0	0.0
83.0	70.0	-	0.0	0.0	4.0	-	12.7	-	-	-	-	-
83.0	80.0	-	6.2	0.0	0.0	-	11.1	-	-	-	-	-
83.0	90.0	-	0.0	3.1	1.4	-	25.3	-	-	-	-	-
87.0	36.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0	0.0
87.0	50.0	0.0	0.0	0.0	0.0	11.8	0.0	-	0.0	-	0.0	0.0
87.0	60.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	0.0	0.0	0.0
87.0	70.0	-	0.0	0.0	4.8	0.0	0.0	-	-	-	-	-
87.0	75.0	-	-	-	2.0	0.0	0.0	-	-	-	-	-
87.0	80.0	-	6.0	3.6	6.2	0.0	0.0	-	-	-	-	-
87.0	90.0	-	5.9	0.0	2.8	0.0	0.0	-	-	-	-	-
90.0	55.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	0.0	0.0	5.9
90.0	65.0	-	-	-	7.1	0.0	0.0	-	-	0.0	-	-
90.0	70.0	0.0	12.0	0.0	0.0	0.0	0.0	-	-	0.0	-	-
90.0	75.0	0.0	-	-	0.0	5.5	0.0	-	-	0.0	-	0.0
90.0	80.0	0.0	0.0	0.0	9.5	0.0	0.0	-	-	0.0	-	0.0
90.0	85.0	-	-	-	0.0	1.6	0.0	-	-	0.0	-	0.0
90.0	90.0	-	2.7	3.6	6.4	0.0	0.0	-	-	0.0	-	0.0
90.0	95.0	-	-	-	3.2	-	-	-	-	-	-	-
93.0	50.0	0.0	0.0	0.0	0.0	5.7	0.0	-	-	0.0	-	0.0
93.0	55.0	-	-	-	4.6	0.0	0.0	-	-	0.0	-	0.0
93.0	60.0	-	0.0	0.0	0.0	0.0	0.0	-	-	0.0	-	0.0
93.0	75.0	-	-	-	0.0	4.7	0.0	-	-	-	-	-
93.0	80.0	-	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
93.0	85.0	-	-	-	3.0	0.0	0.0	-	-	-	-	-
93.0	90.0	-	-	-	6.6	0.0	0.0	-	-	-	-	-
93.0	100.0	-	-	-	11.9	-	-	-	-	-	-	-
97.0	40.0	0.0	0.0	0.0	10.2	0.0	0.0	-	-	0.0	-	0.0
97.0	50.0	0.0	0.0	0.0	0.0	0.0	10.6	-	-	0.0	-	0.0
97.0	55.0	-	-	-	0.0	2.4	0.0	-	-	0.0	-	0.0
97.0	60.0	-	0.0	0.0	0.0	2.0	0.0	-	-	0.0	-	0.0

TABLE 4. (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
97.0	70.0	0.0	0.0	3.9	0.0	0.0	0.0	-	-	-	-	-
97.0	75.0	-	-	-	0.0	4.2	0.0	-	-	-	-	-
97.0	80.0	-	0.0	8.4	0.0	0.0	0.0	-	-	-	-	-
97.0	90.0	-	0.0	0.0	0.0	0.0	11.7	-	-	-	-	-
100.0	40.0	0.0	0.0	0.0	0.0	2.6	0.0	-	-	-	-	-
100.0	50.0	0.0	0.0	6.7	9.4	2.7	0.0	-	-	-	-	-
100.0	65.0	-	-	-	6.1	0.0	0.0	-	-	-	-	-
100.0	80.0	0.0	0.0	3.7	0.0	-	0.0	-	-	-	-	-
100.0	95.0	-	-	-	4.0	-	-	-	-	-	-	-
103.0	40.0	0.0	0.0	0.0	0.0	5.3	0.0	-	-	-	-	-
103.0	45.0	-	-	-	2.9	-	0.0	-	-	-	-	-
103.0	60.0	0.0	0.0	13.7	0.0	-	0.0	-	-	-	-	-
103.0	70.0	-	1.7	0.0	0.0	-	0.0	-	-	-	-	-
103.0	75.0	-	-	-	5.5	-	0.0	-	-	-	-	-
103.0	80.0	-	1.9	3.3	0.0	-	0.0	-	-	-	-	-
103.0	85.0	-	-	-	0.0	-	8.8	-	-	-	-	-
103.0	90.0	-	3.0	0.0	23.0	-	0.0	-	-	-	-	-
103.0	95.0	-	-	-	2.4	-	-	-	-	-	-	-
103.0	100.0	-	-	-	12.0	-	-	-	-	-	-	-
107.0	35.0	0.0	0.0	5.2	0.0	0.0	0.0	-	-	-	-	-
107.0	45.0	-	-	-	5.8	0.0	41.0	-	-	-	-	-
107.0	50.0	0.0	0.0	2.2	0.0	0.0	5.1	-	-	-	-	-
107.0	60.0	0.0	0.0	0.0	0.0	0.0	17.1	-	-	-	-	-
107.0	65.0	-	-	-	10.6	0.0	-	-	-	-	-	-
107.0	80.0	-	3.0	0.0	0.0	0.0	2.7	-	-	-	-	-
107.0	85.0	-	-	-	23.5	0.0	-	-	-	-	-	-
107.0	90.0	-	6.6	3.0	0.0	26.4	0.0	-	-	-	-	-
110.0	35.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.4	-	-	-
110.0	55.0	-	-	-	0.0	0.0	5.1	-	-	-	-	-
110.0	60.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
110.0	65.0	-	2.8	0.0	14.2	0.0	-	-	-	-	-	-
110.0	70.0	0.0	0.0	8.2	0.0	0.0	0.0	-	-	-	-	-
110.0	80.0	0.0	0.0	4.8	0.0	0.0	17.2	-	-	-	-	-
110.0	90.0	-	5.1	0.0	0.0	0.0	0.0	-	-	-	-	-
113.0	40.0	0.0	0.0	0.0	0.0	0.0	4.8	0.0	0.0	-	-	-
113.0	45.0	-	0.0	-	0.0	9.1	0.0	-	-	-	-	-
113.0	70.0	0.0	0.0	0.0	0.0	0.0	7.2	-	-	-	-	-
117.0	35.0	0.0	0.0	5.2	0.0	0.0	0.0	0.0	0.0	-	-	-
117.0	60.0	0.0	0.0	0.0	17.2	0.0	0.0	-	-	-	-	-
117.0	70.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
117.0	80.0	-	3.5	6.0	0.0	0.0	0.0	-	-	-	-	-
120.0	55.0	0.0	3.0	0.0	0.0	0.0	2.8	-	-	-	-	-
120.0	60.0	0.0	0.0	0.0	0.0	0.0	3.1	-	-	-	-	-
120.0	70.0	0.0	2.9	0.0	0.0	0.0	0.0	-	-	-	-	-
120.0	80.0	-	0.0	2.8	0.0	0.0	4.7	-	-	-	-	-
123.0	42.0	0.0	-	2.1	0.0	0.0	0.0	0.0	0.0	-	-	-

TABLE 4. (cont.)

*Melamphaes* spp. (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
123.0	50.0	5.4	0.0	0.0	3.1	0.0	0.0	-	-	-	-	-
127.0	45.0	-	0.0	-	0.0	0.0	0.0	6.7	0.0	-	-	-
127.0	50.0	0.0	3.7	0.0	0.0	0.0	4.4	-	-	-	-	-
127.0	55.0	0.0	0.0	0.0	0.0	0.0	2.2	-	-	-	-	-
130.0	35.0	0.0	3.0	2.9	0.0	0.0	0.0	0.0	0.0	-	-	-
130.0	40.0	0.0	0.0	2.9	0.0	0.0	0.0	12.2	0.0	-	-	-
140.0	50.0	2.2	-	-	-	-	-	-	-	-	-	-
143.0	40.0	2.2	-	0.0	-	-	-	-	-	-	-	-
147.0	40.0	2.0	-	0.0	-	-	-	-	-	-	-	-
150.0	25.0	3.2	-	0.0	-	-	-	-	-	-	-	-
153.0	20.0	0.0	-	0.0	-	-	-	-	-	-	-	-
153.0	50.0	2.9	-	0.0	-	-	-	-	-	-	-	-
157.0	20.0	2.5	-	0.0	-	-	-	-	-	-	-	-
157.0	30.0	2.8	-	0.0	-	-	-	-	-	-	-	-

*Poromitra* spp.

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
60.0	70.0	-	-	0.0	0.0	0.0	10.1	-	-	-	-	-
80.0	80.0	0.0	0.0	3.7	0.0	-	0.0	-	0.0	-	0.0	0.0
83.0	70.0	-	0.0	4.0	0.0	-	0.0	-	-	-	-	-
90.0	80.0	0.0	0.0	0.0	0.0	1.7	0.0	-	-	0.0	-	0.0
90.0	90.0	-	0.0	3.6	0.0	5.9	0.0	-	-	0.0	-	0.0
93.0	90.0	-	0.0	0.0	0.0	8.1	0.0	-	-	-	-	-
97.0	50.0	0.0	0.0	0.0	0.0	3.0	0.0	-	-	0.0	-	0.0
97.0	80.0	-	2.8	0.0	0.0	0.0	0.0	-	-	-	-	-
97.0	90.0	-	0.0	0.0	0.0	6.4	0.0	-	-	-	-	-
100.0	70.0	0.0	5.6	0.0	0.0	-	0.0	-	-	-	-	-
100.0	90.0	-	0.0	6.4	0.0	-	0.0	-	-	-	-	-
103.0	60.0	0.0	0.0	6.8	0.0	-	0.0	-	-	-	-	-
103.0	70.0	-	1.7	0.0	0.0	-	0.0	-	-	-	-	-
103.0	80.0	-	0.0	3.3	0.0	-	0.0	-	-	-	-	-
123.0	55.0	-	6.7	-	0.0	0.0	0.0	-	-	-	-	-
123.0	60.0	-	3.7	0.0	0.0	0.0	0.0	-	-	-	-	-
130.0	40.0	0.0	0.0	0.0	0.0	0.0	2.9	0.0	0.0	-	-	-

*Scopelogadus bispinosus*

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
87.0	60.0	0.0	0.0	7.6	0.0	0.0	0.0	-	-	0.0	0.0	0.0
87.0	90.0	-	0.0	2.9	0.0	-	0.0	-	-	-	-	-
90.0	55.0	0.0	0.0	8.7	0.0	0.0	0.0	-	-	0.0	0.0	0.0
103.0	90.0	-	1.5	0.0	0.0	-	0.0	-	-	-	-	-
150.0	30.0	0.0	-	2.1	-	-	-	-	-	-	-	-

TABLE 4. (cont.)

*Syngnathus* spp.

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
83.0	40.0	-	0.0	0.8	0.0	-	0.0	-	0.0	-	0.0	-
93.0	35.0	-	-	-	0.0	0.0	2.2	-	-	0.0	-	0.0

Agonidae

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
83.0	40.0	-	0.8	0.0	0.0	-	0.0	-	0.0	-	0.0	-
83.0	51.0	0.0	0.0	2.9	0.0	-	0.0	-	0.0	-	0.0	0.0
100.0	29.0	2.9	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
103.0	30.0	0.0	0.0	0.0	0.0	0.0	4.5	-	-	-	-	-
110.0	33.0	0.0	2.9	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-
113.0	30.0	8.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-
120.0	40.0	0.0	4.7	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-

Cottidae

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
50.0	47.0	-	-	3.4	2.8	0.0	-	-	-	-	-	-
60.0	50.0	-	-	0.0	0.0	-	2.6	-	-	-	-	-
73.0	50.0	-	-	0.0	0.0	-	0.0	-	0.0	-	0.0	0.0
80.0	51.0	1.6	2.7	0.0	0.0	-	0.0	-	0.0	-	0.0	0.0
80.0	60.0	0.0	5.9	0.0	0.0	0.0	0.0	-	0.0	-	0.0	0.0
82.0	47.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0	-	0.0	0.0
83.0	40.0	-	0.0	0.0	2.8	-	5.1	-	0.0	-	0.0	0.0
83.0	43.0	2.1	0.0	0.0	3.6	-	10.4	-	0.0	-	0.0	0.0
83.0	48.0	-	-	-	-	-	5.9	-	0.0	-	0.0	0.0
83.0	51.0	1.3	16.0	2.9	0.0	-	0.0	-	2.9	-	0.0	0.0
87.0	50.0	0.0	0.0	0.0	2.0	0.0	0.0	-	-	-	-	-
90.0	28.0	2.7	0.0	0.0	0.0	0.0	0.0	-	-	0.0	-	-
93.0	27.0	0.0	0.0	0.0	0.0	0.0	14.1	-	-	0.0	-	-
93.0	30.0	0.0	0.0	0.0	0.0	0.0	2.3	-	-	0.0	-	-
97.0	30.0	0.0	0.0	0.0	7.1	0.0	38.2	-	-	0.0	-	-
100.0	29.0	0.0	6.0	0.0	11.2	7.6	4.7	-	-	-	-	-
100.0	30.0	-	-	-	9.7	-	0.0	-	-	-	-	-
100.0	33.0	0.0	6.1	0.0	-	0.0	-	-	1	-	-	-
103.0	30.0	2.9	0.0	2.2	0.0	0.0	0.0	-	-	-	-	-
110.0	33.0	0.0	0.0	0.0	23.8	12.8	0.0	0.0	0.0	-	-	-
110.0	45.0	-	-	-	0.0	0.0	25.6	-	-	-	-	-
115.0	27.0	-	-	-	-	-	-	23.8	0.0	-	-	-
120.0	40.0	0.0	14.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-
127.0	34.0	2.8	0.0	0.0	0.0	0.0	-	0.0	0.0	-	-	-

TABLE 4. (cont.)

*Scorpaenichthys marmoratus*

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
60.0	50.0	-	-	3.4	-	-	-	-	-	-	-	-
80.0	51.0	0.0	0.0	0.0	0.0	-	0.0	-	2.5	-	0.0	0.0
80.0	60.0	0.0	5.4	0.0	-	-	0.0	-	0.0	-	0.0	0.0
82.0	47.0	0.0	8.9	0.0	0.0	-	0.0	-	0.0	-	0.0	0.0
83.0	51.0	2.3	0.0	0.0	-	-	0.0	-	0.0	-	0.0	0.0
87.0	36.0	0.0	13.4	0.0	0.0	-	0.0	-	-	-	0.0	0.0
87.0	70.0	-	5.5	0.0	0.0	-	0.0	-	-	-	-	-
90.0	28.0	0.0	0.0	0.0	0.0	-	0.0	-	-	0.0	-	0.0
93.0	30.0	0.0	0.0	0.0	0.0	-	0.0	-	-	0.0	-	0.0
93.0	80.0	-	2.3	0.0	0.0	-	0.0	-	-	-	-	-
103.0	35.0	0.0	0.0	0.0	0.0	-	0.0	-	-	-	-	-
110.0	50.0	3.3	0.0	0.0	0.0	-	0.0	-	-	-	-	-

*Cyclopteridae*

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
63.0	52.0	-	-	0.0	0.9	-	0.0	-	-	-	-	-
73.0	50.0	-	-	0.0	0.0	-	2.6	-	-	-	-	-
87.0	50.0	0.0	0.0	0.0	0.0	-	0.0	-	2.9	-	0.0	0.0
97.0	30.0	0.0	0.0	0.0	0.0	-	19.1	-	-	0.0	-	0.0
110.0	33.0	0.0	0.0	0.0	0.0	-	4.4	0.0	0.0	-	-	-
110.0	35.0	0.0	2.8	0.0	0.0	-	0.0	0.0	0.0	-	-	-
113.0	30.0	-	0.0	0.0	0.0	7.0	0.0	0.0	0.0	-	-	-

*Ophiodon elongatus*

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
97.0	30.0	0.0	2.2	0.0	0.0	0.0	0.0	-	-	0.0	-	0.0

*Oxylebius pictus*

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
80.0	60.0	0.0	0.0	0.0	0.0	-	0.0	-	5.8	-	0.0	0.0
82.0	47.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0	2.9
83.0	51.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0	-	3.3	0.0
87.0	36.0	0.0	4.9	0.0	0.0	0.0	0.0	-	-	-	0.0	0.0
97.0	40.0	0.0	0.0	0.0	0.0	-	2.4	-	-	0.0	-	0.0
100.0	29.0	0.0	0.0	0.0	0.0	-	0.0	-	-	-	-	-
123.0	37.0	0.0	2.9	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-

TABLE 4. (cont.)

*Zaniolepis* spp.

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
80.0	51.0	3.4	0.0	0.0	0.0	-	0.0	-	0.0	-	0.0	0.0
83.0	40.0	0.0	0.0	0.0	0.0	-	0.0	-	2.0	-	0.0	-
90.0	28.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	1.6	0.0	0.0
93.0	27.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	0.0	-	0.0
107.0	32.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
110.0	33.0	0.0	2.9	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-
113.0	30.0	-	4.1	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-
117.0	26.0	0.0	0.0	0.0	0.0	0.0	6.9	0.0	0.0	-	-	-
120.0	40.0	0.0	14.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-

*Scorpaenidae*

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
157.0	10.0	4.1	-	-	-	-	-	-	-	-	-	-

*Scorpaena* spp.

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
110.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	-	-	-
115.0	30.0	-	-	-	-	-	-	0.0	7.9	-	-	-
115.0	40.0	-	-	-	-	-	-	0.0	5.6	-	-	-
117.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	-	-	-
118.5	25.0	-	-	-	-	-	-	0.0	5.8	-	-	-
118.5	30.0	-	-	-	-	-	-	0.0	3.5	-	-	-
120.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.9	-	-	-
120.0	45.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30.0	-	-	-
123.0	37.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.1	-	-	-
123.0	45.0	-	0.0	0.0	-	-	-	0.0	7.3	-	-	-
127.0	34.0	0.0	0.0	0.0	0.0	0.0	-	3416.4	0.0	-	-	-
127.0	45.0	-	0.0	0.0	0.0	0.0	0.0	0.0	3.6	-	-	-
130.0	35.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.6	-	-	-
130.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.9	-	-	-
133.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	-	-	-

*Sebastes* spp.

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
40.0	45.0	-	-	-	9.3	20.3	-	-	-	-	-	-
40.0	50.0	-	-	-	0.0	33.0	-	-	-	-	-	-
40.0	60.0	-	-	-	11.9	11.9	-	-	-	-	-	-
40.0	70.0	-	-	-	19.2	0.0	-	-	-	-	-	-
43.0	50.0	-	-	-	0.0	23.7	-	-	-	-	-	-
47.0	50.0	-	-	-	0.0	6.7	-	-	-	-	-	-

TABLE 4. (cont.)

## Sebastes spp. (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
47.0	60.0	-	-	-	13.0	15.4	-	-	-	-	-	-
50.0	47.0	-	-	-	25.6	10.0	-	-	-	-	-	-
50.0	50.0	-	-	-	0.0	28.8	-	-	-	-	-	-
50.0	55.0	-	-	-	0.0	5.9	-	-	-	-	-	-
50.0	60.0	-	-	-	0.0	4.4	-	-	-	-	-	-
50.0	70.0	-	-	-	0.0	12.0	-	-	-	-	-	-
50.0	80.0	-	-	-	27.0	0.0	-	-	-	-	-	-
53.0	52.0	-	-	-	0.0	13.2	-	-	-	-	-	-
53.0	55.0	-	-	-	31.1	10.0	-	-	-	-	-	-
53.0	65.0	-	-	-	44.2	22.7	-	-	-	-	-	-
57.0	51.0	-	-	-	3.2	0.0	-	-	-	-	-	-
57.0	55.0	-	-	-	0.0	13.9	-	-	-	-	-	-
60.0	50.0	-	-	16.9	-	-	0.0	-	-	-	-	-
60.0	55.0	-	-	3.4	54.5	0.0	0.0	-	-	-	-	-
60.0	57.0	-	-	3.1	0.0	0.0	-	-	-	-	-	-
60.0	60.0	-	-	0.0	11.5	7.4	54.2	-	-	-	-	-
60.0	70.0	-	-	17.8	0.0	0.0	20.2	-	-	-	-	-
60.0	80.0	-	-	0.0	21.0	0.0	0.0	-	-	-	-	-
60.0	90.0	-	-	13.6	0.0	0.0	0.0	-	-	-	-	-
63.0	52.0	-	-	4.8	7.0	0.0	0.0	-	-	-	-	-
63.0	55.0	-	-	0.0	38.2	0.0	0.0	-	-	-	-	-
63.0	60.0	-	-	0.0	-	-	11.7	-	-	-	-	-
63.0	65.0	-	-	0.0	29.6	-	-	-	-	-	-	-
63.0	80.0	-	-	12.5	-	-	13.3	-	-	-	-	-
63.0	90.0	-	-	25.3	0.0	-	11.8	-	-	-	-	-
67.0	50.0	-	-	23.2	0.0	-	96.2	-	-	-	-	-
67.0	55.0	-	-	36.1	0.0	-	118.8	-	-	-	-	-
67.0	60.0	-	-	-	9.9	-	41.2	-	-	-	-	-
67.0	65.0	-	-	-	-	-	-	-	-	-	-	-
67.0	70.0	-	-	6.7	-	-	13.2	-	-	-	-	-
67.0	80.0	-	-	9.5	2.4	-	0.0	-	-	-	-	-
70.0	55.0	-	-	10.8	0.0	-	47.4	-	-	-	-	-
70.0	60.0	-	-	0.0	2.5	-	31.4	-	-	-	-	-
70.0	70.0	-	-	56.7	7.8	-	10.4	-	-	-	-	-
70.0	80.0	-	-	38.4	1.1	-	0.0	-	-	-	-	-
70.0	90.0	-	-	16.4	0.0	-	2.6	-	-	-	-	-
73.0	60.0	-	-	13.8	1.5	-	17.9	-	-	-	-	-
73.0	80.0	-	-	-	0.0	-	7.1	-	-	-	-	-
77.0	50.0	-	-	25.4	5.0	-	127.7	-	-	-	-	-
77.0	55.0	-	-	47.8	36.0	-	106.8	-	-	-	-	-
77.0	60.0	-	-	6.4	6.4	-	18.5	-	-	-	-	-
77.0	65.0	-	-	6.1	0.0	-	-	-	-	-	-	-
77.0	70.0	-	-	-	0.0	-	12.2	-	-	-	-	-
77.0	90.0	-	-	16.5	15.1	-	41.3	-	-	-	3.1	-
80.0	51.0	6.8	14.6	16.5	15.1	-	17.7	2.5	-	-	-	10.9

TABLE 4. (cont.)

## Sebastes spp. (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
80.0	55.0	358.2	0.0	27.7	21.7	-	18.0	-	114.7	-	3.1	71.3
80.0	60.0	124.7	12.6	191.0	7.8	-	0.0	-	17.5	-	0.0	227.2
80.0	70.0	5.6	9.2	95.4	8.7	-	5.8	-	0.0	-	3.2	0.0
80.0	80.0	0.0	11.8	12.1	0.0	-	0.0	-	0.0	-	0.0	6.1
80.0	90.0	0.0	0.0	9.0	0.0	-	0.0	-	0.0	-	0.0	0.0
82.0	47.0	-	64.8	97.7	79.0	19.9	28.1	-	23.0	-	6.2	26.4
83.0	40.0	38.6	-	4.2	19.5	-	0.0	-	0.0	-	0.0	-
83.0	43.0	135.8	252.4	475.4	61.2	-	30.5	-	11.4	-	48.6	6.3
83.0	48.0	-	-	-	-	-	10.4	-	-	-	-	-
83.0	51.0	254.2	20.1	277.7	173.9	-	46.9	-	45.8	-	122.8	173.8
83.0	55.0	-	-	-	35.3	-	0.0	-	11.1	-	20.9	12.1
83.0	60.0	0.0	0.0	315.9	1.2	-	17.0	-	11.9	-	43.4	12.3
83.0	70.0	-	-	2.7	2.8	-	0.0	-	-	-	-	-
83.0	80.0	-	-	0.0	1.2	-	11.1	-	-	-	-	-
83.0	90.0	-	-	2.6	0.0	-	0.0	-	-	-	-	-
87.0	36.0	7.3	282.2	187.7	35.4	6.0	2.6	-	-	-	10.8	6.2
87.0	40.0	59.5	498.8	197.8	18.1	0.0	0.0	-	12.0	-	3.2	125.8
87.0	45.0	-	-	-	30.3	13.5	102.0	-	0.0	-	0.0	164.7
87.0	50.0	438.9	979.7	118.7	22.3	118.0	15.4	-	25.9	-	29.9	452.2
87.0	55.0	-	-	-	0.0	10.8	4.5	-	-	6.8	12.9	25.4
87.0	60.0	84.7	23.1	38.4	0.0	5.7	11.9	-	-	0.0	0.0	0.0
87.0	65.0	-	-	-	0.0	32.0	0.0	-	-	-	-	-
87.0	70.0	-	-	69.3	4.8	0.0	0.0	-	-	-	-	-
87.0	80.0	-	-	32.9	0.0	0.0	0.0	-	-	4.5	-	6.4
90.0	28.0	285.1	237.5	122.4	0.0	0.0	0.0	-	-	1.4	-	0.0
90.0	30.0	198.7	33.8	87.6	0.0	0.0	0.0	-	-	0.0	0.0	0.0
90.0	37.0	0.0	284.8	56.8	6.3	5.7	11.7	-	-	0.0	0.0	11.6
90.0	45.0	182.0	98.3	252.7	32.0	12.7	0.0	-	-	6.1	0.0	33.8
90.0	50.0	-	-	-	242.7	17.6	0.0	-	-	0.0	0.0	0.0
90.0	55.0	107.3	131.2	506.3	9.1	54.0	5.2	-	-	0.0	3.9	0.0
90.0	60.0	40.0	37.0	31.8	50.2	0.0	0.0	-	-	0.0	0.0	0.0
90.0	65.0	-	-	-	2.4	0.0	23.3	-	-	0.0	-	-
90.0	70.0	0.0	345.0	6.0	12.3	2.8	0.0	-	-	0.0	-	0.0
90.0	75.0	-	-	-	0.0	7.9	0.0	-	-	0.0	-	2.8
90.0	80.0	0.0	0.0	119.3	9.5	7.2	0.0	-	-	0.0	-	0.0
90.0	90.0	-	-	54.8	0.0	5.9	0.0	-	-	0.0	-	0.0
90.0	95.0	-	-	-	3.2	-	-	-	-	-	-	-
93.0	27.0	54.2	96.3	43.4	0.0	0.0	16.4	-	-	7.4	-	5.5
93.0	30.0	0.0	112.0	24.6	3.0	3.3	11.7	-	-	1.6	-	5.9
93.0	35.0	-	-	-	0.0	7.3	2.2	-	-	0.0	-	2.7
93.0	40.0	19.1	22.0	120.6	7.6	19.3	0.0	-	-	0.0	-	5.8
93.0	45.0	-	-	-	8.5	8.8	0.0	-	-	1.5	-	8.9
93.0	50.0	0.0	10.8	25.4	77.9	0.0	13.2	-	-	6.7	-	2.9
93.0	55.0	-	-	-	9.3	0.0	0.0	-	-	0.0	-	0.0
93.0	60.0	-	17.9	11.6	13.7	0.0	0.0	-	-	0.0	-	0.0
93.0	65.0	-	-	-	17.1	17.1	0.0	-	-	-	-	-



TABLE 4. (cont.)

## Sebastes spp. (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
93.0	70.0	6.6	8.3	6.8	22.4	20.4	0.0	-	-	-	-	-
93.0	75.0	-	-	5.7	27.0	9.3	0.0	-	-	-	-	-
93.0	80.0	-	7.0	0.0	6.2	0.0	0.0	-	-	-	-	-
93.0	90.0	-	2.9	0.0	0.0	0.0	0.0	-	-	-	-	4.3
97.0	30.0	45.8	52.1	64.7	9.5	5.2	19.1	-	11.3	-	-	2.9
97.0	32.0	2.7	11.9	87.3	10.4	2.5	0.0	-	0.0	-	-	0.0
97.0	40.0	0.0	0.0	3.6	0.0	4.1	0.0	-	0.0	-	-	0.0
97.0	45.0	-	-	-	3.8	-	2.9	-	0.0	-	-	0.0
97.0	50.0	8.6	0.0	0.0	0.0	6.0	0.0	-	0.0	-	-	0.0
97.0	55.0	-	-	-	0.0	2.4	0.0	-	0.0	-	-	0.0
97.0	60.0	0.0	17.5	0.0	0.0	14.3	0.0	-	0.0	-	-	3.2
97.0	70.0	14.3	3.1	15.7	0.0	13.8	0.0	-	0.0	-	-	0.0
97.0	75.0	-	-	-	12.6	4.2	0.0	-	0.0	-	-	-
97.0	80.0	-	2.8	0.0	0.0	0.0	0.0	-	0.0	-	-	-
100.0	29.0	261.9	161.5	20.4	5.6	15.3	37.4	-	-	-	-	-
100.0	30.0	57.6	188.5	29.2	16.2	-	68.8	-	-	-	-	-
100.0	33.0	-	-	-	-	4.8	-	-	-	-	-	-
100.0	35.0	-	9.1	33.7	6.1	10.8	0.0	-	-	-	-	-
100.0	40.0	30.4	-	-	21.9	0.0	0.0	-	-	-	-	-
100.0	45.0	-	-	6.7	0.0	2.2	0.0	-	-	-	-	-
100.0	50.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
100.0	60.0	0.0	-	0.0	0.0	2.8	0.0	-	-	-	-	-
100.0	65.0	-	-	-	0.0	9.4	0.0	-	-	-	-	-
100.0	70.0	0.0	5.6	0.0	0.0	-	0.0	-	-	-	-	-
100.0	80.0	0.0	3.0	0.0	0.0	-	0.0	-	-	-	-	-
103.0	30.0	545.2	149.2	63.8	0.0	0.0	0.0	-	-	-	-	-
103.0	35.0	31.8	23.1	54.9	0.0	0.0	0.0	-	-	-	-	-
103.0	40.0	82.6	18.5	0.0	12.0	0.0	0.0	-	-	-	-	-
103.0	45.0	-	-	-	2.9	-	0.0	-	-	-	-	-
103.0	55.0	-	-	-	3.2	-	0.0	-	-	-	-	-
103.0	60.0	0.0	0.0	27.4	12.2	-	0.0	-	-	-	-	-
103.0	70.0	-	1.5	0.0	0.0	-	0.0	-	-	-	-	-
107.0	32.0	228.8	42.9	0.0	28.2	3.7	7.6	-	-	-	-	-
107.0	35.0	0.0	100.8	0.0	0.0	5.7	0.0	-	-	-	-	-
107.0	40.0	0.0	138.0	3.3	0.0	0.0	0.0	-	-	-	-	-
107.0	45.0	-	-	-	0.0	6.0	0.0	-	-	-	-	-
107.0	50.0	9.7	16.5	2.2	0.0	0.0	0.0	-	-	-	-	-
107.0	60.0	0.0	3.2	0.0	0.0	0.0	0.0	-	-	-	-	-
110.0	33.0	131.2	8.6	117.7	47.6	0.0	0.0	-	0.0	-	-	-
110.0	35.0	82.9	50.8	53.6	15.0	0.0	0.0	5.4	0.0	-	-	-
110.0	40.0	8.3	19.6	33.4	0.0	0.0	0.0	0.0	0.0	-	-	-
110.0	45.0	-	-	-	10.0	0.0	0.0	-	0.0	-	-	-
110.0	50.0	3.3	68.4	10.4	0.0	0.0	0.0	-	-	-	-	-
110.0	60.0	0.0	44.6	0.0	0.0	0.0	0.0	-	-	-	-	-
110.0	70.0	0.0	57.2	8.2	0.0	0.0	0.0	-	-	-	-	-
110.0	80.0	0.0	3.0	0.0	0.0	0.0	0.0	-	-	-	-	-

TABLE 4. (cont.)

## Sebastes spp. (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
113.0	30.0	118.9	19.4	0.0	9.3	3.5	4.3	0.0	0.0	-	-	-
113.0	35.0	22.2	34.9	40.0	10.6	0.0	0.0	0.0	0.0	-	-	-
113.0	40.0	2.9	84.5	0.0	5.6	0.0	4.8	0.0	0.0	-	-	-
113.0	45.0	-	0.0	-	99.8	0.0	0.0	-	-	-	-	-
113.0	50.0	6.1	3.0	0.0	0.0	0.0	0.0	-	-	-	-	-
113.0	55.0	-	8.8	-	0.0	0.0	0.0	-	-	-	-	-
113.0	60.0	0.0	12.1	0.0	0.0	0.0	0.0	-	-	-	-	-
113.0	65.0	-	-	-	23.0	0.0	-	-	-	-	-	-
113.0	70.0	11.7	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
117.0	26.0	590.2	22.0	7.6	0.0	10.1	0.0	7.4	0.0	-	-	-
117.0	30.0	99.2	152.9	70.0	0.0	50.8	0.0	0.0	0.0	-	-	-
117.0	35.0	138.2	221.7	88.1	23.5	18.7	0.0	0.0	0.0	-	-	-
117.0	40.0	642.7	60.5	21.3	25.7	6.6	0.0	3.0	0.0	-	-	-
117.0	45.0	-	35.2	-	0.0	0.0	0.0	-	-	-	-	-
117.0	50.0	6.4	59.0	4.5	0.0	0.0	0.0	-	-	-	-	-
117.0	55.0	-	40.7	-	0.0	0.0	0.0	-	-	-	-	-
117.0	60.0	0.0	0.0	4.5	0.0	0.0	0.0	-	-	-	-	-
117.0	70.0	0.0	3.3	0.0	0.0	0.0	0.0	-	-	-	-	-
118.0	39.0	100.8	23.6	-	205.2	28.2	27.6	-	-	-	-	-
119.0	33.0	35.3	154.8	35.1	0.0	0.0	0.0	-	-	-	-	-
120.0	25.0	44.5	0.0	21.9	26.0	21.8	0.0	0.0	0.0	-	-	-
120.0	30.0	181.8	178.6	15.0	14.2	96.8	24.8	0.0	0.0	-	-	-
120.0	35.0	-	-	-	-	-	-	240.7	0.0	-	-	-
120.0	40.0	-	-	-	-	-	-	25.0	0.0	-	-	-
120.0	45.0	102.5	14.0	4.6	0.0	0.0	0.0	2.2	0.0	-	-	-
120.0	50.0	158.1	35.1	338.0	7.2	0.0	0.0	17.0	0.0	-	-	-
120.0	55.0	0.0	0.0	163.2	0.0	0.0	0.0	-	0.0	-	-	-
120.0	60.0	0.0	0.0	4.3	0.0	0.0	0.0	-	-	-	-	-
120.0	65.0	0.0	0.0	3.6	0.0	0.0	0.0	-	-	-	-	-
120.0	70.0	0.0	0.0	7.4	21.1	0.0	0.0	-	-	-	-	-
123.0	37.0	48.2	121.8	7.4	0.0	24.2	47.2	0.0	0.0	-	-	-
123.0	40.0	-	39.1	9.5	-	7.3	-	-	-	-	-	-
123.0	42.0	0.0	-	0.0	0.0	16.4	0.0	5.9	0.0	-	-	-
123.0	45.0	0.0	113.0	-	-	-	-	12.2	0.0	-	-	-
123.0	50.0	8.2	18.4	5.1	0.0	0.0	0.0	-	-	-	-	-
123.0	55.0	-	0.0	-	0.0	0.0	0.0	-	-	-	-	-
123.0	60.0	-	0.0	33.3	0.0	0.0	0.0	-	-	-	-	-
127.0	34.0	11.2	26.5	30.2	8.3	0.0	-	0.0	0.0	-	-	-
127.0	40.0	0.0	0.0	24.2	12.1	0.0	0.0	0.0	0.0	-	-	-
127.0	45.0	-	0.0	-	0.0	0.0	0.0	6.7	0.0	-	-	-
127.0	50.0	2.8	0.0	132.0	3.1	8.0	0.0	-	-	-	-	-
127.0	55.0	73.1	0.0	-	0.0	32.9	0.0	-	-	-	-	-
130.0	30.0	14.7	5.0	0.0	0.0	0.0	0.0	3.6	0.0	-	-	-
130.0	35.0	5.0	0.0	14.3	3.1	0.0	0.0	0.0	0.0	-	-	-
130.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	12.2	0.0	-	-	-
130.0	45.0	-	-	-	-	-	-	3.5	0.0	-	-	-
130.0	50.0	0.0	2.8	5.6	5.8	3.6	0.0	-	-	-	-	-
130.0	60.0	0.0	0.0	2.8	0.0	0.0	0.0	-	-	-	-	-

TABLE 4. (cont.)

*Sebastes* spp. (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
133.0	25.0	0.0	16.6	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-
133.0	30.0	34.2	10.1	0.0	0.0	0.0	2.5	0.0	0.0	-	-	-
133.0	40.0	8.1	0.0	0.0	0.0	0.0	25.1	-	-	-	-	-
133.0	60.0	-	29.3	-	-	-	-	-	-	-	-	-
137.0	30.0	0.0	18.6	0.0	6.6	0.0	10.2	58.9	0.0	-	-	-
137.0	40.0	0.0	6.1	0.0	9.5	9.0	9.6	-	-	-	-	-
140.0	30.0	0.0	-	0.0	-	-	-	-	-	-	-	-
140.0	35.0	0.0	-	2.2	-	-	-	-	-	-	-	-
140.0	40.0	0.0	-	8.1	-	-	-	-	-	-	-	-
143.0	26.0	0.0	-	2.8	-	-	-	-	-	-	-	-
143.0	30.0	0.0	-	5.0	-	-	-	-	-	-	-	-
150.0	19.0	4.9	-	0.0	-	-	-	-	-	-	-	-
153.0	16.0	0.0	-	5.4	-	-	-	-	-	-	-	-

*Sebastolobus* spp.

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
80.0	90.0	0.0	0.0	0.0	0.0	-	0.0	-	6.0	-	0.0	0.0
90.0	80.0	0.0	0.0	0.0	0.0	0.0	6.1	-	-	0.0	-	0.0

*Prionotus* spp.

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
120.0	35.0	-	-	-	-	-	-	9.4	0.0	-	-	-
120.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	0.0	-	-	-
123.0	37.0	0.0	0.0	0.0	0.0	0.0	0.0	11.4	27.7	-	-	-
123.0	42.0	-	-	0.0	0.0	0.0	0.0	0.0	26.2	-	-	-
127.0	34.0	0.0	0.0	0.0	0.0	0.0	-	112.3	0.0	-	-	-
127.0	45.0	-	0.0	-	0.0	0.0	0.0	0.0	7.2	-	-	-
130.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	157.7	-	-	-
130.0	35.0	0.0	0.0	0.0	0.0	0.0	0.0	114.6	19.9	-	-	-
130.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	12.2	13.7	-	-	-
133.0	25.0	0.0	0.0	0.0	0.0	0.0	0.0	11.3	238.1	-	-	-
133.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	656.7	-	-	-
137.0	23.0	0.0	0.0	0.0	0.0	0.0	0.0	904.7	89.3	-	-	-
137.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	14.7	16.4	-	-	-

## Blennioidei

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
119.0	33.0	0.0	0.0	0.0	17.4	0.0	0.0	-	-	-	-	-

TABLE 4. (cont.)

*Hypsoblennius* spp.

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
83.0	40.0	0.0	0.0	0.0	0.0	-	0.0	-	4.1	-	0.0	-
93.0	27.0	0.0	0.0	6.1	0.0	4.6	0.0	-	-	0.0	-	0.0
113.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	-	-	-
115.0	35.0	-	-	-	-	-	-	0.0	5.6	-	-	-
118.5	35.0	-	-	-	-	-	-	0.0	3.5	-	-	-
120.0	45.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	12.0	-	-	-
123.0	45.0	-	0.0	-	-	-	-	3.0	0.0	-	-	-
147.0	20.0	3.2	-	0.0	-	-	-	-	-	-	-	-
147.0	25.0	0.0	5.1	0.0	-	-	-	-	-	-	-	-

## Clinidae

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
60.0	50.0	-	-	3.4	-	-	-	-	-	-	-	-
83.0	51.0	0.0	5.3	0.0	0.0	-	0.0	-	0.0	-	0.0	0.0
87.0	50.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	2.7	0.0
90.0	80.0	0.0	3.1	0.0	0.0	0.0	0.0	-	-	0.0	-	0.0
93.0	27.0	0.0	5.8	0.0	0.0	0.0	0.0	-	-	0.0	-	0.0
97.0	30.0	0.0	0.0	5.9	0.0	1.7	9.6	-	-	0.0	-	0.0
100.0	33.0	0.0	3.0	0.0	0.0	0.0	-	-	-	-	-	-
103.0	30.0	0.0	29.8	0.0	0.0	0.0	0.0	-	-	-	-	-
107.0	32.0	0.0	0.0	0.0	9.4	0.0	0.0	-	-	-	-	-
110.0	33.0	0.0	2.9	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-
113.0	30.0	-	8.2	0.0	0.0	1.8	0.0	0.0	0.0	-	-	-
117.0	26.0	0.0	5.5	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-
120.0	40.0	1.1	4.7	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-

## Gobiidae

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
67.0	60.0	-	-	-	-	-	13.7	-	-	-	-	-
73.0	60.0	-	-	0.0	0.0	-	6.0	-	-	-	-	-
77.0	50.0	-	-	0.0	1.3	-	0.0	-	-	-	-	-
77.0	55.0	-	-	4.8	0.0	-	0.0	-	-	-	-	-
80.0	51.0	0.0	-	0.0	2.4	-	0.0	-	0.0	-	0.0	0.0
80.0	55.0	0.0	0.0	0.0	0.0	-	3.0	-	2.9	-	0.0	5.9
80.0	60.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0	-	2.8	6.1
80.0	80.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0	-	6.3	0.0
80.0	80.0	0.0	0.0	0.0	0.0	14.9	0.0	-	0.0	-	6.2	2.9
82.0	47.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0	-	0.0	-
83.0	40.0	-	0.0	0.0	2.8	-	5.1	-	0.0	-	0.0	3.1
83.0	43.0	0.0	0.0	0.0	0.0	-	2.6	-	-	-	-	-
83.0	48.0	0.0	-	-	-	-	0.0	-	-	-	-	-
83.0	51.0	0.0	0.0	0.0	16.6	-	0.0	-	0.0	-	3.3	0.0
83.0	55.0	-	-	0.0	5.6	-	0.0	-	0.0	-	0.0	0.0

TABLE 4. (cont.)

## Gobiidae (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
87.0	36.0	0.0	0.0	0.0	0.0	2.0	0.0	-	-	-	0.0	0.0
87.0	50.0	8.7	0.0	0.0	0.0	0.0	0.0	-	0.0	-	2.7	0.0
87.0	70.0	-	2.8	0.0	0.0	0.0	0.0	-	-	-	-	-
90.0	30.0	0.0	0.0	0.0	3.2	0.0	0.0	-	-	0.0	-	0.0
90.0	37.0	0.0	0.0	0.0	0.0	2.8	0.0	-	-	0.0	0.0	0.0
90.0	50.0	-	-	-	0.0	5.9	0.0	-	-	0.0	0.0	0.0
90.0	55.0	6.0	0.0	0.0	0.0	9.0	0.0	-	-	0.0	2.0	0.0
90.0	65.0	-	-	-	2.4	0.0	0.0	-	-	-	-	-
90.0	70.0	12.3	0.0	0.0	0.0	0.0	0.0	-	-	0.0	-	0.0
90.0	80.0	0.0	0.0	0.0	9.5	0.0	0.0	-	-	0.0	-	0.0
93.0	35.0	-	-	-	0.0	0.0	2.2	-	-	0.0	-	2.7
93.0	40.0	0.0	11.0	0.0	0.0	0.0	0.0	-	-	1.5	-	0.0
93.0	45.0	-	-	-	5.7	0.0	0.0	-	-	0.0	-	0.0
93.0	55.0	-	-	-	4.6	0.0	0.0	-	-	0.0	-	0.0
97.0	30.0	0.0	0.0	5.9	0.0	0.0	0.0	-	-	0.0	-	0.0
97.0	32.0	0.0	0.0	8.7	0.0	0.0	0.0	-	-	1.3	-	2.1
97.0	50.0	0.0	5.9	0.0	0.0	0.0	0.0	-	-	0.0	-	0.0
100.0	29.0	0.0	6.0	0.0	0.0	0.0	0.0	-	-	0.0	-	0.0
100.0	30.0	0.0	-	-	3.2	-	-	-	-	-	-	-
103.0	30.0	6.1	0.0	2.2	0.0	0.0	0.0	-	-	-	-	-
103.0	55.0	-	-	-	3.2	-	-	-	-	-	-	-
107.0	32.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
110.0	33.0	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-
110.0	35.0	0.0	0.0	3.0	0.0	0.0	0.0	0.0	0.0	-	-	-
113.0	30.0	-	0.0	0.0	0.0	0.0	0.0	0.0	2.4	-	-	-
120.0	45.0	0.0	0.0	28.2	7.2	0.0	12.3	0.0	0.0	-	-	-
123.0	37.0	0.0	0.0	0.0	0.0	0.0	0.0	11.4	11.1	-	-	-
123.0	42.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.5	-	-	-
123.0	45.0	-	0.0	-	-	-	-	3.0	0.0	-	-	-
127.0	34.0	0.0	0.0	0.0	0.0	0.0	-	0.0	2.8	-	-	-
130.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	-	-	-
130.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.6	-	-	-
147.0	20.0	9.5	-	-	-	-	-	-	-	-	-	-
147.0	25.0	7.3	0.0	0.0	-	-	-	-	-	-	-	-
153.0	30.0	5.3	0.0	0.0	-	-	-	-	-	-	-	-
153.0	60.0	0.0	-	11.8	-	-	-	-	-	-	-	-
157.0	30.0	2.4	-	0.0	-	-	-	-	-	-	-	-

*Icosteus aenigmaticus*

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
90.0	90.0	-	-	2.7	0.0	0.0	0.0	-	-	0.0	-	0.0

TABLE 4. (cont.)

## Labridae

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
80.0	60.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0	-	2.8	0.0
82.0	47.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0	2.9
83.0	43.0	0.0	0.0	0.0	0.0	-	50.8	-	0.0	-	0.0	0.0
83.0	48.0	-	-	-	-	-	5.2	-	-	-	-	-
83.0	51.0	0.0	0.0	0.0	0.0	-	0.0	-	2.9	-	0.0	0.0
83.0	60.0	0.0	0.0	0.0	0.0	0.0	0.0	-	17.8	-	0.0	0.0
87.0	36.0	0.0	0.0	0.0	0.0	0.0	5.2	-	-	-	0.0	0.0
87.0	60.0	0.0	2.6	0.0	0.0	0.0	0.0	-	-	0.0	0.0	0.0
87.0	65.0	-	-	-	0.0	0.0	3.2	-	-	-	-	-
93.0	70.0	0.0	0.0	0.0	0.0	20.4	0.0	-	-	-	-	-
97.0	40.0	0.0	0.0	0.0	0.0	0.0	4.8	-	-	0.0	-	0.0
97.0	55.0	-	-	-	0.0	0.0	0.0	-	-	1.4	-	0.0
110.0	35.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	0.0	-	-	-
110.0	60.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-
113.0	35.0	0.0	0.0	0.0	0.0	0.0	4.7	-	-	-	-	-
115.0	35.0	0.0	0.0	0.0	10.6	0.0	0.0	0.0	-	-	-	-
115.0	40.0	-	-	-	-	-	-	0.0	-	-	-	-
117.0	26.0	0.0	0.0	0.0	0.0	0.0	0.0	7.6	0.0	-	-	-
117.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.6	-	-	-
118.5	30.0	-	-	-	-	-	0.0	0.0	3.4	-	-	-
118.5	35.0	-	-	-	-	-	0.0	3.2	5.8	-	-	-
120.0	25.0	0.0	0.0	0.0	0.0	0.0	0.0	13.4	0.0	-	-	-
120.0	30.0	0.0	0.0	0.0	0.0	0.0	24.8	0.0	3.7	-	-	-
120.0	35.0	-	-	-	-	-	-	30.1	3.5	-	-	-
120.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	6.2	0.0	-	-	-
123.0	37.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.9	-	-	-
123.0	45.0	-	-	-	-	-	0.0	0.0	5.5	-	-	-
127.0	34.0	0.0	0.0	0.0	0.0	0.0	-	9.4	7.3	-	-	-
127.0	45.0	-	-	-	-	-	0.0	0.0	0.0	-	-	-
130.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6	-	-	-
130.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	-	-	-
133.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	6.1	20.6	-	-	-
133.0	60.0	0.0	0.0	0.0	0.0	0.0	2.5	0.0	0.0	-	-	-
137.0	30.0	0.0	3.3	0.0	0.0	0.0	0.0	14.7	0.0	-	-	-
150.0	25.0	3.2	-	0.0	-	-	-	-	-	-	-	-
157.0	20.0	2.5	-	0.0	-	-	-	-	-	-	-	-

## Pomacentridae

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
110.0	33.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21.0	-	-	-
113.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.2	-	-	-
115.0	27.0	-	-	-	-	-	-	0.0	12.2	-	-	-
118.5	35.0	-	-	-	-	-	-	0.0	3.5	-	-	-
120.0	25.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.3	-	-	-

TABLE 4. (cont.)

## Pomacentridae (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
123.0	37.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.1	-	-	-
130.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.5	-	-	-
137.0	23.0	0.0	0.0	0.0	0.0	0.0	0.0	10.5	0.0	-	-	-

*Chromis punctipinnis*

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
93.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	1.5	-	0.0
110.0	35.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	43.2	-	-	-
110.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	12.9	3.1	-	-	-
110.0	70.0	0.0	0.0	0.0	0.0	0.0	4.7	-	-	-	-	-
110.0	80.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
113.0	35.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.7	-	-	-
115.0	30.0	-	-	-	-	-	-	0.0	39.4	-	-	-
115.0	40.0	-	-	-	-	-	-	0.0	5.6	-	-	-
120.0	25.0	0.0	0.0	0.0	0.0	0.0	0.0	10.6	3.7	-	-	-
120.0	30.0	0.0	0.0	0.0	0.0	0.0	24.8	0.0	7.0	-	-	-
120.0	45.0	0.0	0.0	0.0	0.0	0.0	0.0	6.8	0.0	-	-	-
123.0	42.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.5	-	-	-
127.0	34.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.5	-	-	-
130.0	35.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.2	-	-	-
133.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.9	-	-	-

*Mugil spp.*

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
133.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	-	-	-
137.0	23.0	0.0	0.0	0.0	0.0	0.0	0.0	31.6	0.0	-	-	-

## Carangidae

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
110.0	33.0	0.0	0.0	0.0	0.0	0.0	0.0	5.4	0.0	-	-	-
123.0	37.0	0.0	0.0	0.0	0.0	0.0	0.0	22.7	0.0	-	-	-
130.0	35.0	0.0	0.0	0.0	0.0	0.0	0.0	14.3	0.0	-	-	-
130.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	6.1	0.0	-	-	-
133.0	25.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.7	-	-	-
133.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.9	-	-	-
137.0	23.0	0.0	0.0	0.0	0.0	0.0	0.0	105.2	0.0	-	-	-
137.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	14.7	0.0	-	-	-
140.0	35.0	12.4	-	0.0	0.0	0.0	-	-	-	-	-	-

TABLE 4. (cont.)

*Seriola lalandi*

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
117.0	35.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	0.0	-	-	-
118.5	35.0	-	-	-	-	-	-	13.4	0.0	-	-	-
120.0	45.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.0	-	-	-
123.0	55.0	0.0	0.0	0.0	0.0	0.0	2.8	-	-	-	-	-
127.0	34.0	0.0	0.0	0.0	0.0	0.0	-	0.0	11.3	-	-	-
127.0	60.0	-	0.0	0.0	0.0	0.0	12.1	-	-	-	-	-
130.0	40.0	0.0	0.0	0.0	0.0	0.0	2.9	0.0	0.0	-	-	-
130.0	45.0	-	-	-	-	-	-	3.5	0.0	-	-	-
133.0	30.0	0.0	0.0	0.0	0.0	0.0	12.6	0.0	0.0	-	-	-
133.0	40.0	0.0	0.0	0.0	0.0	0.0	6.4	-	-	-	-	-
137.0	40.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-	-

*Trachurus symmetricus*

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
60.0	60.0	-	-	0.0	0.0	0.0	5.4	-	-	-	-	-
63.0	60.0	-	-	0.0	-	-	46.7	-	-	-	-	-
63.0	80.0	-	-	0.0	-	-	93.2	-	-	-	-	-
63.0	90.0	-	-	0.0	-	-	29.4	-	-	-	-	-
67.0	55.0	-	-	0.0	0.0	-	32.4	-	-	-	-	-
67.0	60.0	-	-	-	-	-	260.7	-	-	-	-	-
67.0	70.0	-	-	-	-	-	33.1	-	-	-	-	-
67.0	80.0	-	-	0.0	-	-	12.4	-	-	-	-	-
67.0	90.0	-	-	0.0	0.0	-	44.0	-	-	-	-	-
70.0	60.0	-	-	0.0	0.0	-	12.4	-	-	-	-	-
70.0	70.0	-	-	0.0	0.0	-	31.1	-	-	-	-	-
70.0	80.0	-	-	0.0	0.0	-	5.4	-	-	-	-	-
73.0	70.0	-	-	0.0	0.0	-	52.2	-	-	-	-	-
73.0	80.0	-	-	-	0.0	-	35.5	-	-	-	-	-
73.0	90.0	-	-	-	-	-	6.8	-	-	-	-	-
77.0	60.0	-	-	-	0.0	-	6.2	-	-	-	-	-
77.0	70.0	-	-	-	11.9	-	42.7	-	-	-	-	-
77.0	80.0	-	-	-	0.0	-	81.1	-	-	-	-	-
77.0	90.0	-	-	-	-	-	68.8	-	-	-	-	-
80.0	55.0	0.0	0.0	0.0	0.0	-	6.0	0.0	0.0	0.0	0.0	0.0
80.0	60.0	0.0	0.0	0.0	0.0	-	20.7	0.0	0.0	0.0	0.0	0.0
80.0	90.0	0.0	0.0	7.3	58.5	-	0.0	0.0	0.0	0.0	0.0	0.0
83.0	48.0	-	-	-	-	-	2.6	-	0.0	-	-	-
83.0	60.0	0.0	0.0	0.0	0.0	-	22.6	-	-	-	-	-
83.0	70.0	-	0.0	4.0	11.4	-	12.7	-	-	-	-	-
83.0	80.0	-	0.0	0.0	2.3	-	0.0	-	-	-	-	-
83.0	90.0	-	5.2	6.1	2.9	-	0.0	-	-	-	-	-
87.0	36.0	0.0	0.0	0.0	0.0	0.0	7.8	-	-	-	0.0	0.0
87.0	60.0	0.0	0.0	0.0	0.0	34.4	0.0	-	-	0.0	0.0	0.0
87.0	65.0	-	-	-	0.0	0.0	3.2	-	-	-	-	-



TABLE 4. (cont.)

*Trachurus symmetricus* (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
87.0	75.0	-	-	-	0.0	-	51.7	-	-	-	-	-
87.0	80.0	-	0.0	0.0	0.0	55.6	0.0	-	-	-	-	-
87.0	90.0	-	0.0	5.9	0.0	-	0.0	-	-	-	-	-
90.0	65.0	-	-	-	0.0	10.8	0.0	-	-	-	-	0.0
90.0	70.0	0.0	0.0	0.0	0.0	7.8	6.2	-	-	0.0	-	-
90.0	75.0	0.0	0.0	0.0	0.0	132.9	0.0	-	-	0.0	-	0.0
90.0	80.0	0.0	0.0	0.0	0.0	68.1	0.0	-	-	-	-	-
90.0	85.0	-	-	-	0.0	17.8	0.0	-	-	0.0	-	0.0
90.0	90.0	-	0.0	0.0	0.0	5.7	0.0	-	-	0.0	-	0.0
93.0	50.0	0.0	0.0	0.0	0.0	3.8	0.0	-	-	0.0	-	0.0
93.0	55.0	-	-	-	0.0	22.9	0.0	-	-	0.0	-	0.0
93.0	60.0	-	0.0	0.0	0.0	34.2	0.0	-	-	0.0	-	0.0
93.0	65.0	-	-	-	-	0.0	0.0	-	-	-	-	-
93.0	70.0	-	2.8	0.0	22.4	0.0	27.2	-	-	-	-	-
93.0	75.0	-	-	20.3	20.3	93.2	0.0	-	-	-	-	-
93.0	80.0	-	0.0	6.2	6.2	37.4	0.0	-	-	-	-	-
93.0	85.0	-	-	32.8	110.7	-	0.0	-	-	-	-	-
97.0	45.0	-	-	23.0	-	-	0.0	-	-	-	-	-
97.0	50.0	0.0	0.0	0.0	15.1	0.0	0.0	-	-	0.0	-	0.0
97.0	55.0	-	-	11.6	0.0	0.0	0.0	-	-	0.0	-	0.0
97.0	60.0	-	0.0	12.8	389.5	0.0	0.0	-	-	0.0	-	0.0
97.0	65.0	-	-	10.5	20.8	0.0	0.0	-	-	0.0	-	0.0
97.0	70.0	-	0.0	0.0	0.0	316.5	0.0	-	-	-	-	-
97.0	75.0	-	8.5	0.0	0.0	163.8	0.0	-	-	-	-	-
97.0	80.0	-	-	12.1	28.2	0.0	0.0	-	-	-	-	-
97.0	85.0	-	-	0.0	0.0	0.0	12.3	-	-	-	-	-
97.0	90.0	-	8.0	12.5	6.4	-	11.7	-	-	-	-	-
97.0	95.0	-	-	12.7	-	-	-	-	-	-	-	-
100.0	50.0	0.0	63.4	3.3	0.0	0.0	0.0	-	-	-	-	-
100.0	60.0	0.0	0.0	3.5	54.5	0.0	8.5	-	-	-	-	-
100.0	65.0	-	-	0.0	0.0	112.3	0.0	-	-	-	-	-
100.0	70.0	0.0	28.0	0.0	0.0	-	0.0	-	-	-	-	-
100.0	80.0	0.0	38.6	3.7	0.0	-	0.0	-	-	-	-	-
100.0	85.0	-	-	-	13.0	-	0.0	-	-	-	-	-
100.0	90.0	-	21.2	0.0	10.6	-	0.0	-	-	-	-	-
100.0	95.0	-	-	8.0	8.0	-	-	-	-	-	-	-
100.0	100.0	-	-	44.6	44.6	-	-	-	-	-	-	-
103.0	40.0	0.0	12.3	26.7	6.0	0.0	0.0	-	-	-	-	-
103.0	45.0	-	-	-	242.4	-	0.0	-	-	-	-	-
103.0	50.0	0.0	37.2	0.0	100.2	-	0.0	-	-	-	-	-
103.0	55.0	-	-	9.5	9.5	-	0.0	-	-	-	-	-
103.0	60.0	0.0	165.6	6.8	6.1	-	0.0	-	-	-	-	-
103.0	70.0	-	141.0	0.0	0.0	-	0.0	-	-	-	-	-
103.0	80.0	-	51.1	0.0	0.0	-	0.0	-	-	-	-	-
103.0	90.0	-	3.2	0.0	0.0	-	0.0	-	-	-	-	-
103.0	95.0	-	-	2.4	2.4	-	-	-	-	-	-	-

TABLE 4. (cont.)

STATION	<i>Trachurus symmetricus</i> (cont.)											
	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
107.0	32.0	0.0	26.4	0.0	0.0	0.0	0.0	-	-	-	-	-
107.0	35.0	0.0	8.4	0.0	0.0	0.0	0.0	-	-	-	-	-
107.0	40.0	0.0	0.0	6.6	0.0	0.0	0.0	-	-	-	-	-
107.0	50.0	0.0	125.4	0.0	10.9	6.6	10.3	-	-	-	-	-
107.0	55.0	-	-	-	12.0	30.8	17.9	-	-	-	-	-
107.0	60.0	0.0	71.1	9.8	0.0	0.0	0.0	-	-	-	-	-
107.0	65.0	-	152.2	0.0	21.1	3.7	-	-	-	-	-	-
107.0	70.0	-	-	0.0	0.0	0.0	6.9	-	-	-	-	-
107.0	75.0	-	-	11.4	0.0	0.0	-	-	-	-	-	-
107.0	80.0	-	0.0	0.0	19.2	2.7	-	-	-	-	-	-
107.0	85.0	-	-	5.9	25.3	-	-	-	-	-	-	-
107.0	90.0	-	16.4	3.0	58.7	0.0	0.0	-	-	-	-	-
110.0	35.0	0.0	25.4	3.0	0.0	0.0	0.0	0.0	0.0	-	-	-
110.0	40.0	0.0	163.0	11.1	0.0	28.3	0.0	0.0	0.0	-	-	-
110.0	45.0	-	-	-	0.0	14.9	0.0	-	-	-	-	-
110.0	50.0	0.0	0.0	0.0	9.5	0.0	0.0	-	-	-	-	-
110.0	55.0	-	-	24.8	0.0	0.0	0.0	-	-	-	-	-
110.0	60.0	0.0	5.6	20.9	0.0	0.0	0.0	-	-	-	-	-
110.0	70.0	0.0	22.9	0.0	0.0	0.0	0.0	-	-	-	-	-
110.0	75.0	-	-	-	6.1	0.0	-	-	-	-	-	-
110.0	80.0	0.0	334.4	0.0	21.4	0.0	0.0	-	-	-	-	-
110.0	85.0	-	-	0.0	18.7	0.0	-	-	-	-	-	-
110.0	90.0	-	30.8	0.0	14.8	0.0	0.0	-	-	-	-	-
113.0	30.0	0.0	8.6	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-
113.0	35.0	0.0	58.2	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-
113.0	40.0	0.0	352.0	41.3	5.6	0.0	0.0	0.0	0.0	-	-	-
113.0	45.0	-	141.7	-	0.0	9.1	0.0	-	-	-	-	-
113.0	50.0	0.0	27.0	22.2	0.0	0.0	0.0	-	-	-	-	-
113.0	55.0	-	17.5	-	0.0	0.0	0.0	-	-	-	-	-
113.0	70.0	0.0	18.3	0.0	21.0	0.0	0.0	-	-	-	-	-
113.0	80.0	-	0.0	4.4	8.0	0.0	0.0	-	-	-	-	-
117.0	35.0	0.0	44.3	5.2	0.0	0.0	0.0	0.0	0.0	-	-	-
117.0	40.0	0.0	10.1	2.7	0.0	0.0	0.0	0.0	0.0	-	-	-
117.0	45.0	-	3.2	-	0.0	0.0	0.0	-	-	-	-	-
117.0	50.0	0.0	0.0	4.5	0.0	0.0	0.0	-	-	-	-	-
117.0	55.0	-	27.1	-	0.0	0.0	0.0	-	-	-	-	-
117.0	60.0	0.0	36.8	0.0	0.0	0.0	0.0	-	-	-	-	-
117.0	65.0	-	-	0.0	0.0	27.0	0.0	-	-	-	-	-
117.0	70.0	0.0	9.8	0.0	0.0	0.0	0.0	-	-	-	-	-
117.0	80.0	-	3.5	3.0	7.9	0.0	0.0	-	-	-	-	-
118.0	39.0	0.0	15.7	-	0.0	0.0	0.0	-	-	-	-	-
118.5	35.0	-	-	-	-	-	-	26.7	0.0	-	-	-
120.0	25.0	0.0	0.0	0.0	0.0	0.0	0.0	21.1	0.0	-	-	-
120.0	40.0	0.0	4.7	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-
120.0	50.0	0.0	0.0	0.0	0.0	3.7	3.1	0.0	0.0	-	-	-
120.0	55.0	0.0	3.0	0.0	0.0	0.0	2.8	-	-	-	-	-

TABLE 4. (cont.)

*Trachurus symmetricus* (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
120.0	60.0	0.0	14.5	0.0	0.0	6.8	0.0	-	-	-	-	-
120.0	70.0	0.0	5.8	31.2	0.0	0.0	0.0	-	-	-	-	-
120.0	80.0	-	0.0	30.7	10.8	0.0	0.0	-	-	-	-	-
123.0	40.0	0.0	0.0	7.1	-	0.0	-	-	-	-	-	-
123.0	42.0	0.0	-	4.3	0.0	8.2	0.0	0.0	0.0	-	-	-
123.0	50.0	0.0	6.1	0.0	0.0	0.0	0.0	-	-	-	-	-
123.0	55.0	0.0	6.7	-	0.0	0.0	0.0	-	-	-	-	-
127.0	50.0	0.0	0.0	11.0	0.0	0.0	0.0	-	-	-	-	-
127.0	60.0	0.0	0.0	10.0	0.0	0.0	0.0	-	-	-	-	-
133.0	40.0	0.0	0.0	0.0	0.0	0.0	12.6	-	-	-	-	-

*Coryphaena hippurus*

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
123.0	45.0	-	0.0	-	-	-	-	0.0	7.3	-	-	-
127.0	45.0	-	0.0	-	0.0	0.0	0.0	0.0	3.6	-	-	-
130.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	-	-	-
133.0	25.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	-	-	-
137.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	14.7	0.0	-	-	-
153.0	50.0	0.0	-	4.3	-	-	-	-	-	-	-	-

*Girella nigricans*

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
83.0	43.0	0.0	0.0	0.0	0.0	-	15.2	-	0.0	-	0.0	0.0
93.0	27.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	3.3	-	0.0
97.0	40.0	0.0	0.0	0.0	0.0	0.0	2.4	-	-	0.0	-	0.0

*Medialuna californiensis*

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
97.0	60.0	-	0.0	0.0	0.0	14.3	0.0	-	-	0.0	-	0.0
103.0	45.0	-	-	-	2.9	-	0.0	-	-	-	-	-
107.0	50.0	0.0	0.0	0.0	0.0	0.0	5.1	-	-	-	-	-
110.0	60.0	0.0	0.0	0.0	0.0	25.4	0.0	-	-	-	-	-
118.0	39.0	0.0	0.0	-	0.0	0.0	27.5	-	-	-	-	-

*Caulolatilus princeps*

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
110.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3	0.0	-	-	-
115.0	30.0	-	-	-	-	-	-	0.0	7.9	-	-	-

TABLE 4. (cont.)

*Caulolatilus princeps* (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
118.5	35.0	-	-	-	-	-	-	0.0	3.5	-	-	-
119.0	33.0	0.0	0.0	0.0	0.0	0.0	28.3	-	-	-	-	-
130.0	60.0	0.0	0.0	0.0	0.0	0.0	2.7	-	-	-	-	-
133.0	30.0	0.0	0.0	0.0	0.0	0.0	2.5	0.0	0.0	-	-	-
133.0	40.0	0.0	0.0	0.0	0.0	0.0	25.1	-	-	-	-	-
137.0	40.0	2.5	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-

Sciaenidae

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
83.0	40.0	1.8	0.0	0.0	11.1	-	0.0	-	2.0	-	0.0	0.0
83.0	43.0	0.0	0.0	0.0	0.0	-	10.2	-	0.0	-	0.0	0.0
87.0	36.0	0.0	0.0	0.0	0.0	0.0	10.4	-	0.0	-	0.0	0.0
90.0	28.0	0.0	0.0	0.0	0.0	0.0	11.2	-	-	3.2	-	-
90.0	37.0	0.0	0.0	0.0	0.0	0.0	37.8	-	-	0.0	0.0	-
93.0	27.0	0.0	0.0	24.4	0.0	0.0	42.3	-	-	15.2	-	-
97.0	30.0	44.2	0.0	17.6	0.0	0.0	258.1	-	-	0.0	-	0.0
100.0	29.0	89.3	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
103.0	30.0	3.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
103.0	40.0	3.3	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
107.0	40.0	16.8	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
107.0	50.0	3.2	0.0	0.0	0.0	0.0	0.0	0.0	2.6	-	-	-
110.0	33.0	29.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-
113.0	30.0	-	0.0	0.0	13.9	0.0	0.0	0.0	0.0	-	-	-
115.0	27.0	-	0.0	0.0	-	10.1	-	0.0	0.0	-	-	-
117.0	26.0	0.0	0.0	0.0	0.0	50.8	27.5	15.9	1.7	-	-	-
117.0	30.0	0.0	5.9	0.0	0.0	0.0	8.1	15.6	0.0	-	-	-
117.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	0.0	-	-	-
118.5	25.0	-	-	-	-	-	-	39.3	0.0	-	-	-
118.5	35.0	-	-	-	-	-	-	13.4	0.0	-	-	-
119.0	33.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	-	-
120.0	25.0	0.0	0.0	0.0	0.0	10.9	0.0	0.0	0.0	-	-	-
120.0	30.0	0.0	12.8	0.0	0.0	0.0	0.0	3.1	0.0	-	-	-
120.0	35.0	-	-	-	-	-	-	0.0	0.0	-	-	-
120.0	40.0	46.6	196.6	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-
120.0	50.0	0.0	0.0	3.1	0.0	0.0	0.0	11.4	0.0	-	-	-
123.0	37.0	0.0	0.0	0.0	0.0	0.0	0.0	28.1	0.0	-	-	-
127.0	34.0	0.0	0.0	0.0	0.0	0.0	12.2	0.0	0.0	-	-	-
127.0	45.0	-	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-
130.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	-	-	-
130.0	35.0	0.0	0.0	0.0	0.0	0.0	0.0	14.3	0.0	-	-	-
130.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	12.2	0.0	-	-	-
133.0	25.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	0.0	-	-	-
133.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.0	-	-	-
137.0	23.0	0.0	0.0	0.0	0.0	0.0	0.0	115.7	0.0	-	-	-

TABLE 4. (cont.)

## Sciaenidae (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
137.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	14.7	0.0	-	-	-
140.0	35.0	0.0	-	4.5	-	-	-	-	-	-	-	-
143.0	26.0	0.0	-	0.0	-	-	-	-	-	-	-	-

## Serranidae

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
130.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	-	-	-
130.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.9	-	-	-
133.0	25.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	230.4	-	-	-
133.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	326.4	-	-	-
137.0	23.0	0.0	0.0	0.0	0.0	0.0	0.0	52.6	44.7	-	-	-
137.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	14.7	32.8	-	-	-

## Auxis spp.

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
123.0	37.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5	-	-	-
123.0	42.0	0.0	-	0.0	0.0	0.0	0.0	0.0	6.5	-	-	-
127.0	34.0	0.0	0.0	0.0	0.0	0.0	-	9.4	0.0	-	-	-
130.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	-	-	-
130.0	35.0	0.0	0.0	0.0	0.0	0.0	0.0	143.2	0.0	-	-	-
130.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	42.8	0.0	-	-	-
133.0	25.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	3.8	-	-	-
137.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	14.7	0.0	-	-	-

## Sarda chiliensis

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
133.0	30.0	0.0	0.0	0.0	0.0	0.0	10.0	0.0	0.0	-	-	-
133.0	40.0	0.0	0.0	0.0	0.0	0.0	12.6	-	-	-	-	-
137.0	23.0	0.0	0.0	0.0	0.0	0.0	0.0	105.2	0.0	-	-	-
140.0	30.0	0.0	-	0.0	-	-	-	-	-	-	-	-

## Scomber japonicus

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
90.0	37.0	0.0	0.0	0.0	0.0	0.0	12.6	-	-	0.0	0.0	0.0
90.0	55.0	0.0	0.0	0.0	0.0	0.0	2.6	-	-	0.0	0.0	0.0
90.0	80.0	0.0	0.0	0.0	0.0	3.5	0.0	-	-	0.0	-	0.0
97.0	45.0	-	-	-	7.7	-	0.0	-	-	0.0	-	0.0
97.0	50.0	0.0	0.0	0.0	0.0	3.0	0.0	-	-	0.0	-	0.0

TABLE 4. (cont.)

*Scomber japonicus* (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
97.0	55.0	-	-	-	3.8	0.0	0.0	-	-	0.0	-	0.0
97.0	60.0	0.0	0.0	0.0	0.0	24.6	0.0	-	-	0.0	-	0.0
103.0	40.0	0.0	0.0	0.0	9.0	0.0	0.0	-	-	0.0	-	-
103.0	45.0	-	-	-	248.2	-	0.0	-	-	-	-	-
103.0	50.0	0.0	0.0	0.0	50.1	-	0.0	-	-	-	-	-
103.0	60.0	0.0	0.0	0.0	3.1	0.0	0.0	-	-	-	-	-
107.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
107.0	70.0	-	3.5	0.0	0.0	0.0	0.0	-	-	-	-	-
113.0	40.0	0.0	0.0	7.3	0.0	0.0	0.0	0.0	0.0	-	-	-
117.0	26.0	0.0	0.0	0.0	0.0	10.1	13.8	0.0	0.0	-	-	-
117.0	30.0	0.0	0.0	0.0	36.8	20.3	0.0	0.0	0.0	-	-	-
117.0	40.0	0.0	0.0	18.6	0.0	0.0	13.8	0.0	0.0	-	-	-
117.0	50.0	0.0	0.0	9.0	0.0	0.0	0.0	-	-	-	-	-
117.0	80.0	-	0.0	3.0	0.0	0.0	0.0	-	-	-	-	-
118.0	39.0	0.0	0.0	-	20.5	0.0	165.5	-	-	-	-	-
118.5	35.0	-	-	-	-	-	-	467.6	0.0	-	-	-
120.0	25.0	0.0	0.0	0.0	0.0	0.0	70.7	21.1	0.0	-	-	-
120.0	30.0	0.0	0.0	0.0	28.5	0.0	0.0	90.2	0.0	-	-	-
120.0	35.0	-	-	-	-	-	-	21.8	0.0	-	-	-
120.0	40.0	0.0	0.0	0.0	0.0	25.1	51.1	6.7	0.0	-	-	-
120.0	50.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
123.0	37.0	0.0	0.0	3.1	0.0	0.0	0.0	0.0	11.1	-	-	-
127.0	60.0	-	0.0	0.0	0.0	15.2	0.0	0.0	-	-	-	-
130.0	35.0	0.0	0.0	0.0	0.0	0.0	10.1	0.0	0.0	-	-	-
133.0	30.0	0.0	0.0	0.0	0.0	0.0	2.5	0.0	0.0	-	-	-
143.0	26.0	0.0	-	0.0	-	-	-	-	-	-	-	-

*Scomberomorus* spp.

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
137.0	23.0	0.0	0.0	0.0	0.0	0.0	0.0	10.5	0.0	-	-	-

## Trichiuridae

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
110.0	33.0	0.0	0.0	0.0	0.0	0.0	0.0	5.4	0.0	-	-	-
113.0	40.0	0.0	0.0	0.0	0.0	0.0	4.8	0.0	0.0	-	-	-
113.0	55.0	-	0.0	-	0.0	0.0	13.0	-	-	-	-	-
113.0	60.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
115.0	40.0	-	-	-	-	-	-	7.0	0.0	-	-	-
117.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	0.0	-	-	-
120.0	40.0	2.1	0.0	0.0	0.0	0.0	0.0	0.0	7.8	-	-	-
120.0	45.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30.0	-	-	-
120.0	70.0	0.0	5.8	0.0	0.0	0.0	0.0	-	-	-	-	-

TABLE 4. (cont.)

## Trichiuridae (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
123.0	45.0	-	0.0	-	-	-	-	0.0	51.0	-	-	-
127.0	34.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	47.9	-	-	-
127.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.1	-	-	-
127.0	45.0	-	0.0	0.0	0.0	0.0	0.0	6.7	10.8	-	-	-
127.0	60.0	-	0.0	0.0	0.0	18.2	-	-	-	-	-	-
130.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	28.1	-	-	-
130.0	35.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.2	-	-	-
130.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	34.3	-	-	-
130.0	45.0	-	0.0	0.0	0.0	-	-	0.0	6.2	-	-	-
130.0	60.0	-	0.0	0.0	0.0	0.0	0.0	0.0	7.7	-	-	-
133.0	25.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.0	-	-	-
133.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.4	-	-	-
137.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-
137.0	40.0	0.0	0.0	0.0	0.0	3.2	-	-	-	-	-	-
140.0	30.0	7.1	0.0	0.0	-	-	-	-	-	-	-	-
140.0	35.0	24.9	0.0	0.0	-	-	-	-	-	-	-	-

*Sphyraena argentea*

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
113.0	30.0	-	0.0	0.0	0.0	0.0	0.0	0.0	2.4	-	-	-
115.0	27.0	-	-	-	-	-	-	7.9	0.0	-	-	-
115.0	35.0	-	-	-	-	-	-	0.0	5.6	-	-	-
117.0	26.0	0.0	0.0	0.0	0.0	0.0	0.0	7.4	0.0	-	-	-
117.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	0.0	-	-	-
118.5	35.0	-	-	-	-	-	-	80.2	0.0	-	-	-
120.0	25.0	0.0	0.0	0.0	0.0	0.0	0.0	10.6	0.0	-	-	-
120.0	35.0	-	-	-	-	-	-	6.2	0.0	-	-	-
120.0	45.0	0.0	0.0	0.0	0.0	0.0	0.0	6.8	0.0	-	-	-
133.0	25.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	46.1	-	-	-
133.0	30.0	0.0	0.0	0.0	0.0	6.0	0.0	0.0	8.0	-	-	-
137.0	30.0	0.0	0.0	0.0	0.0	5.1	0.0	0.0	0.0	-	-	-
137.0	40.0	0.0	0.0	0.0	0.0	63.0	0.0	-	-	-	-	-

*Icichthys lockingtoni*

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
40.0	45.0	-	-	-	0.0	10.2	-	-	-	-	-	-
40.0	60.0	-	-	-	5.9	0.0	-	-	-	-	-	-
50.0	50.0	-	-	-	11.6	3.6	-	-	-	-	-	-
50.0	70.0	-	-	-	0.0	12.0	-	-	-	-	-	-
50.0	80.0	-	-	-	0.0	3.1	-	-	-	-	-	-
50.0	90.0	-	-	-	0.0	5.3	-	-	-	-	-	-
53.0	65.0	-	-	-	0.0	22.7	-	-	-	-	-	-

TABLE 4. (cont.)

*Icichthys lockingtoni* (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
60.0	60.0	-	-	0.0	11.5	1.9	10.8	-	-	-	-	-
60.0	70.0	-	-	0.0	26.0	0.0	0.0	-	-	-	-	-
63.0	65.0	-	-	0.0	14.2	-	0.0	-	-	-	-	-
63.0	80.0	-	-	0.0	1.1	-	-	-	-	-	-	-
63.0	90.0	-	-	0.0	-	-	20.0	-	-	-	-	-
67.0	55.0	-	-	0.0	0.0	-	5.9	-	-	-	-	-
67.0	60.0	-	-	0.0	-	-	10.8	-	-	-	-	-
67.0	80.0	-	-	0.0	-	-	6.9	-	-	-	-	-
70.0	60.0	-	-	0.0	-	-	12.4	-	-	-	-	-
70.0	70.0	-	-	0.0	0.0	-	18.8	-	-	-	-	-
70.0	80.0	-	-	0.0	0.0	-	31.1	-	-	-	-	-
70.0	90.0	-	-	0.0	5.2	-	0.0	-	-	-	-	-
73.0	70.0	-	-	0.0	27.6	-	0.0	-	-	-	-	-
73.0	80.0	-	-	0.0	0.0	-	29.8	-	-	-	-	-
77.0	70.0	-	-	-	22.3	-	28.4	-	-	-	-	-
77.0	80.0	-	-	-	0.0	-	6.1	-	-	-	-	-
77.0	90.0	-	-	-	0.0	-	13.5	-	-	-	-	-
80.0	51.0	0.0	-	0.0	-	-	13.8	-	0.0	-	0.0	0.0
80.0	55.0	4.6	0.0	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0	0.0
80.0	70.0	0.0	3.2	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0	0.0
80.0	80.0	0.0	2.4	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0	0.0
83.0	43.0	0.0	0.0	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0	0.0
83.0	60.0	0.0	0.0	0.0	0.0	-	5.7	-	0.0	-	0.0	0.0
83.0	80.0	0.0	0.0	0.0	0.0	-	12.7	-	-	-	-	-
87.0	36.0	6.7	3.1	0.0	0.0	0.0	0.0	-	-	0.0	0.0	0.0
87.0	50.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	2.7	0.0	0.0
87.0	60.0	0.0	2.6	0.0	2.4	0.0	7.9	-	0.0	0.0	0.0	0.0
87.0	65.0	-	-	0.0	5.4	0.0	3.0	-	-	-	-	-
87.0	70.0	-	2.8	7.1	0.0	0.0	0.0	-	-	-	-	-
87.0	75.0	-	-	-	0.0	0.0	6.1	-	-	-	-	-
87.0	80.0	-	3.0	0.0	3.1	8.3	0.0	-	-	-	-	-
90.0	55.0	0.0	0.0	8.7	0.0	9.0	0.0	-	0.0	0.0	0.0	0.0
90.0	60.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	0.0	0.0
90.0	70.0	0.0	0.0	0.0	6.1	5.5	3.1	-	0.0	0.0	-	-
90.0	75.0	-	-	-	0.0	1.6	0.0	-	-	-	-	-
90.0	80.0	0.0	0.0	0.0	19.0	0.0	0.0	-	0.0	0.0	0.0	0.0
90.0	85.0	-	-	-	0.0	2.6	0.0	-	-	-	-	-
90.0	90.0	-	5.5	0.0	0.0	5.9	0.0	-	0.0	0.0	0.0	0.0
93.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	0.0	0.0
93.0	50.0	0.0	0.0	0.0	7.1	0.0	0.0	-	0.0	0.0	0.0	0.0
93.0	60.0	3.0	5.8	0.0	0.0	0.0	0.0	-	0.0	0.0	0.0	0.0
93.0	70.0	0.0	0.0	0.0	0.0	20.4	13.6	-	-	-	-	-
93.0	75.0	-	-	-	6.8	4.7	0.0	-	-	-	-	-
93.0	80.0	-	2.3	0.0	0.0	0.0	0.0	-	-	-	-	-



TABLE 4. (cont.)

*Icichthys lockingtoni* (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
97.0	30.0	0.0	0.0	0.0	0.0	3.5	0.0	-	-	0.0	-	0.0
97.0	60.0	0.0	0.0	0.0	0.0	4.1	0.0	-	-	0.0	-	0.0
97.0	75.0	-	-	-	0.0	8.4	0.0	-	-	-	-	-
100.0	29.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
100.0	50.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
100.0	60.0	11.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
103.0	40.0	0.0	0.0	6.7	0.0	0.0	0.0	-	-	-	-	-
103.0	50.0	0.0	0.0	0.0	3.1	-	0.0	-	-	-	-	-
103.0	60.0	11.3	0.0	0.0	3.1	-	0.0	-	-	-	-	-
103.0	70.0	-	1.7	0.0	0.0	-	0.0	-	-	-	-	-
103.0	80.0	-	1.9	0.0	0.0	-	0.0	-	-	-	-	-
107.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
107.0	50.0	12.8	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
107.0	70.0	-	0.0	0.0	10.9	0.0	0.0	0.0	0.0	-	-	-
110.0	33.0	0.0	2.9	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-
110.0	50.0	24.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-
110.0	60.0	11.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-
113.0	35.0	5.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-
113.0	50.0	0.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-
117.0	45.0	-	3.2	-	0.0	0.0	0.0	-	-	-	-	-

*Peprilus similimus*

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
80.0	55.0	0.0	0.0	0.0	0.0	-	3.0	-	0.0	-	0.0	0.0
83.0	43.0	0.0	0.0	0.0	0.0	-	5.1	-	0.0	-	0.0	0.0
87.0	36.0	0.0	0.0	0.0	0.0	0.0	2.6	-	-	-	0.0	0.0
110.0	33.0	0.0	0.0	0.0	0.0	0.0	17.5	10.9	0.0	-	-	-
113.0	30.0	4.1	0.0	0.0	0.0	0.0	34.4	0.0	0.0	-	-	-
113.0	35.0	11.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-
113.0	60.0	2.7	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
113.0	70.0	2.9	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
115.0	27.0	-	-	-	-	-	-	15.9	0.0	-	-	-
117.0	26.0	0.0	0.0	0.0	0.0	20.2	0.0	7.4	0.0	-	-	-
117.0	30.0	0.0	0.0	0.0	0.0	91.4	16.2	46.8	0.0	-	-	-
120.0	25.0	0.0	0.0	0.0	0.0	21.8	70.7	10.6	0.0	-	-	-
120.0	30.0	0.0	0.0	30.0	0.0	0.0	49.7	30.1	0.0	-	-	-
120.0	40.0	0.0	0.0	0.0	0.0	25.1	8.5	0.0	0.0	-	-	-
120.0	45.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0	-	-	-
120.0	50.0	0.0	0.0	3.1	0.0	0.0	0.0	-	-	-	-	-
133.0	25.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	-	-	-
133.0	30.0	0.0	0.0	0.0	0.0	6.0	0.0	0.0	0.0	-	-	-
133.0	40.0	0.0	0.0	0.0	25.5	0.0	0.0	0.0	0.0	-	-	-
137.0	23.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	-	-
137.0	30.0	0.0	6.2	0.0	0.0	10.2	0.0	21.0	0.0	-	-	-

TABLE 4. (cont.)

*Peprillus similimus* (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
137.0	40.0	0.0	0.0	0.0	0.0	22.5	0.0	-	-	-	-	-
140.0	35.0	0.0	-	2.2	-	-	-	-	-	-	-	-

*Tetragonurus cuvieri*

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
60.0	90.0	-	-	0.0	0.0	-	11.8	-	-	-	-	-
63.0	60.0	-	-	-	-	-	11.7	-	-	-	-	-
63.0	80.0	-	-	0.0	-	-	20.0	-	-	-	-	-
63.0	90.0	-	-	-	-	-	11.8	-	-	-	-	-
67.0	55.0	-	-	0.0	0.0	-	10.8	-	-	-	-	-
67.0	60.0	-	-	-	-	-	6.9	-	-	-	-	-
67.0	90.0	-	-	-	-	-	12.4	-	-	-	-	-
70.0	80.0	-	-	0.0	0.0	-	5.4	-	-	-	-	-
70.0	90.0	-	-	0.0	0.0	-	416.0	-	-	-	-	-
73.0	80.0	-	-	0.0	0.0	-	35.5	-	-	-	-	-
73.0	90.0	-	-	-	-	-	54.7	-	-	-	-	-
77.0	80.0	-	-	-	0.0	-	6.8	-	-	-	-	-
77.0	90.0	-	-	-	-	-	13.8	-	-	-	-	-
80.0	70.0	0.0	0.0	0.0	2.7	-	0.0	-	40.9	-	0.0	0.0
80.0	80.0	0.0	0.0	0.0	0.0	-	11.6	-	12.0	-	25.0	0.0
80.0	90.0	0.0	0.0	0.0	21.3	-	0.0	-	11.9	-	0.0	0.0
83.0	70.0	-	0.0	0.0	0.0	-	12.7	-	-	-	-	-
83.0	80.0	-	0.0	0.0	10.6	-	33.2	-	-	-	-	-
83.0	90.0	-	7.8	0.0	2.9	-	0.0	-	-	-	-	-
87.0	65.0	-	-	0.0	0.0	10.7	0.0	-	-	-	-	-
87.0	70.0	-	0.0	0.0	11.0	11.0	6.1	-	-	-	-	-
87.0	75.0	-	-	0.0	-	-	9.1	-	-	-	-	-
87.0	80.0	-	0.0	0.0	0.0	52.8	0.0	-	-	-	-	-
87.0	85.0	-	-	-	-	-	11.8	-	-	-	-	-
90.0	28.0	0.0	0.0	0.0	0.0	0.0	11.2	-	0.0	0.0	-	0.0
90.0	70.0	0.0	3.0	0.0	0.0	0.0	0.0	-	0.0	-	-	0.0
90.0	75.0	-	-	0.0	0.0	6.1	6.1	-	-	3.0	-	0.0
90.0	80.0	0.0	0.0	0.0	0.0	27.8	0.0	-	-	-	-	0.0
90.0	85.0	-	-	0.0	0.0	10.5	0.0	-	-	-	-	0.0
90.0	90.0	-	0.0	0.0	0.0	5.7	5.8	-	0.0	0.0	-	0.0
93.0	60.0	0.0	0.0	0.0	0.0	23.3	0.0	-	-	-	-	-
93.0	75.0	-	2.3	0.0	6.2	0.0	0.0	-	-	-	-	-
93.0	80.0	-	-	-	8.9	55.4	0.0	-	-	-	-	-
93.0	90.0	-	0.0	0.0	19.8	16.2	0.0	-	-	-	-	-
97.0	50.0	0.0	0.0	0.0	0.0	3.0	0.0	-	0.0	0.0	-	0.0
97.0	60.0	0.0	0.0	0.0	0.0	36.9	0.0	-	0.0	0.0	-	0.0
97.0	65.0	-	-	-	0.0	0.0	19.7	-	-	-	-	-
97.0	70.0	-	0.0	0.0	0.0	13.8	0.0	-	-	-	-	-

TABLE 4. (cont.)

*Tetragonurus cuvieri* (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
97.0	75.0	-	-	-	0.0	37.8	0.0	-	-	-	-	-
97.0	80.0	-	0.0	0.0	0.0	10.6	0.0	-	-	-	-	-
100.0	55.0	-	-	0.0	0.0	-	23.2	-	-	-	-	-
100.0	60.0	0.0	0.0	0.0	6.1	0.0	0.0	-	-	-	-	-
100.0	70.0	0.0	0.0	0.0	0.0	-	26.8	-	-	-	-	-
100.0	75.0	-	-	0.0	0.0	-	17.2	-	-	-	-	-
100.0	80.0	0.0	5.9	0.0	0.0	-	0.0	-	-	-	-	-
100.0	85.0	-	3.1	0.0	0.0	-	8.4	-	-	-	-	-
100.0	90.0	-	-	8.0	8.0	-	0.0	-	-	-	-	-
100.0	95.0	-	-	8.9	8.9	-	-	-	-	-	-	-
100.0	100.0	-	-	2.9	2.9	-	0.0	-	-	-	-	-
103.0	45.0	-	-	0.0	0.0	-	0.0	-	-	-	-	-
103.0	50.0	0.0	4.7	0.0	0.0	-	0.0	-	-	-	-	-
103.0	70.0	-	4.7	0.0	0.0	-	0.0	-	-	-	-	-
103.0	75.0	-	-	0.0	0.0	-	24.4	-	-	-	-	-
103.0	80.0	-	7.2	0.0	0.0	-	0.0	-	-	-	-	-
103.0	85.0	-	-	0.0	0.0	-	8.8	-	-	-	-	-
103.0	90.0	-	-	11.5	11.5	-	0.0	-	-	-	-	-
107.0	60.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
107.0	70.0	3.5	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
107.0	80.0	-	17.7	0.0	0.0	0.0	6.9	-	-	-	-	-
107.0	90.0	-	9.1	0.0	5.3	6.4	2.7	-	-	-	-	-
110.0	40.0	0.0	3.3	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-
110.0	60.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-
110.0	70.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
110.0	80.0	0.0	18.2	0.0	0.0	6.4	0.0	-	-	-	-	-
110.0	90.0	-	20.6	0.0	0.0	0.0	5.9	-	-	-	-	-
113.0	40.0	0.0	14.1	7.3	0.0	0.0	0.0	0.0	0.0	-	-	-
113.0	45.0	-	6.4	-	0.0	0.0	67.2	-	-	-	-	-
113.0	50.0	0.0	3.0	0.0	0.0	0.0	0.0	-	-	-	-	-
113.0	55.0	-	0.0	0.0	0.0	0.0	13.0	-	-	-	-	-
113.0	60.0	0.0	4.0	0.0	0.0	0.0	0.0	-	-	-	-	-
113.0	70.0	0.0	3.7	0.0	0.0	0.0	7.2	-	-	-	-	-
113.0	80.0	-	7.3	0.0	8.0	0.0	0.0	-	-	-	-	-
115.0	35.0	-	-	-	-	-	-	-	-	-	-	-
117.0	40.0	0.0	0.0	2.7	0.0	0.0	0.0	3.8	0.0	-	-	-
117.0	60.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-
117.0	70.0	0.0	6.5	0.0	0.0	0.0	0.0	-	-	-	-	-
117.0	80.0	-	3.5	0.0	7.9	0.0	0.0	-	-	-	-	-
120.0	50.0	3.2	0.0	0.0	0.0	0.0	12.6	-	-	-	-	-
120.0	55.0	0.0	2.7	0.0	0.0	0.0	11.4	-	-	-	-	-
120.0	60.0	0.0	8.9	0.0	0.0	6.5	0.0	-	-	-	-	-
120.0	70.0	0.0	10.9	0.0	0.0	6.8	0.0	-	-	-	-	-
120.0	80.0	0.0	11.5	0.0	0.0	0.0	3.1	-	-	-	-	-
120.0	80.0	-	3.4	0.0	0.0	0.0	4.7	-	-	-	-	-
123.0	40.0	-	0.0	4.8	-	0.0	-	-	-	-	-	-
123.0	50.0	40.8	18.4	5.1	0.0	0.0	0.0	-	-	-	-	-

TABLE 4. (cont.)

*Tetragonurus cuvieri* (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
123.0	55.0	0.0	43.7	-	0.0	3.3	0.0	-	-	-	-	-
123.0	60.0	-	7.4	2.6	0.0	0.0	0.0	-	-	-	-	-
127.0	40.0	0.0	3.3	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-
127.0	50.0	0.0	0.0	0.0	0.0	0.0	4.4	-	-	-	-	-
127.0	55.0	0.0	11.2	-	0.0	0.0	13.3	-	-	-	-	-
127.0	60.0	0.0	2.8	0.0	0.0	0.0	36.4	-	-	-	-	-
130.0	50.0	2.7	0.0	2.8	0.0	0.0	0.0	-	-	-	-	-
130.0	60.0	6.7	0.0	2.8	0.0	0.0	0.0	-	-	-	-	-
137.0	40.0	3.4	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
143.0	40.0	0.0	-	2.2	0.0	0.0	0.0	-	-	-	-	-
147.0	40.0	0.0	-	1.9	-	-	-	-	-	-	-	-

## Chiasmodontidae

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
100.0	95.0	-	-	-	4.0	-	-	-	-	-	-	-
103.0	90.0	-	1.5	0.0	0.0	-	0.0	-	-	-	-	-
110.0	90.0	-	0.0	2.1	0.0	0.0	2.0	-	-	-	-	-
117.0	80.0	-	0.0	3.0	0.0	0.0	0.0	-	-	-	-	-
123.0	42.0	0.0	-	2.1	0.0	0.0	0.0	0.0	0.0	-	-	-
123.0	50.0	2.7	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
123.0	55.0	-	0.0	-	0.0	3.3	2.8	-	-	-	-	-
123.0	60.0	-	0.0	0.0	0.0	0.0	6.3	-	-	-	-	-
127.0	40.0	0.0	0.0	0.0	0.0	0.0	6.7	0.0	0.0	-	-	-
127.0	50.0	0.0	0.0	0.0	0.0	0.0	2.2	-	-	-	-	-
147.0	40.0	0.0	-	3.9	-	-	-	-	-	-	-	-
153.0	40.0	0.0	-	3.0	-	-	-	-	-	-	-	-

## Pleuronectiformes

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
57.0	51.0	-	-	-	3.2	0.0	-	-	-	-	-	-
117.0	35.0	0.0	0.0	0.0	0.0	0.0	27.6	0.0	0.0	-	-	-
120.0	25.0	0.0	0.0	0.0	0.0	0.0	23.6	0.0	0.0	-	-	-
123.0	40.0	0.0	3.3	0.0	-	0.0	-	-	-	-	-	-
123.0	45.0	-	6.3	-	-	-	-	0.0	0.0	-	-	-
143.0	26.0	1.4	0.0	0.0	-	-	-	-	-	-	-	-

*Bothus* spp.

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
133.0	25.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	0.0	-	-	-
133.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	-	-	-

TABLE 4. (cont.)

*Citharichthys* spp.

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
60.0	55.0	-	-	0.0	81.8	0.0	0.0	-	-	-	-	-
63.0	52.0	-	-	0.0	0.9	0.0	0.0	-	-	-	-	-
77.0	50.0	-	-	4.8	0.0	21.3	0.0	-	-	-	-	-
77.0	55.0	-	-	0.0	0.0	0.0	0.0	-	-	-	-	-
80.0	60.0	0.0	0.0	0.0	0.0	0.0	0.0	-	5.8	-	0.0	0.0
80.0	90.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0	3.0
83.0	40.0	-	0.0	0.0	0.0	0.0	0.0	-	4.1	-	0.0	12.1
83.0	55.0	-	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0	0.0
83.0	60.0	0.0	0.0	0.0	0.0	0.0	0.0	-	5.9	-	0.0	0.0
87.0	36.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	6.8	5.4	0.0
87.0	60.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	10.3	0.0	0.0
90.0	28.0	0.0	0.0	0.0	0.0	0.0	11.2	-	-	0.0	-	0.0
93.0	27.0	0.0	2.9	0.0	0.0	0.0	0.0	-	-	0.0	-	0.0
93.0	30.0	0.0	0.0	0.0	3.3	0.0	0.0	-	-	0.0	-	0.0
93.0	35.0	-	0.0	0.0	0.0	0.0	0.0	-	-	0.0	-	8.2
93.0	40.0	0.0	2.7	0.0	0.0	0.0	0.0	-	-	0.0	-	0.0
97.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	0.0	-	0.0
100.0	33.0	0.0	0.0	0.0	2.4	0.0	0.0	-	-	1.6	-	-
103.0	30.0	3.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
107.0	40.0	8.4	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-
110.0	33.0	0.0	0.0	0.0	0.0	0.0	43.7	0.0	5.2	-	-	-
110.0	35.0	0.0	0.0	0.0	0.0	0.0	8.6	0.0	10.8	-	-	-
110.0	70.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-
113.0	30.0	-	0.0	0.0	0.0	0.0	17.2	3.0	4.9	-	-	-
113.0	35.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	37.6	-	-	-
113.0	40.0	0.0	0.0	0.0	0.0	0.0	4.8	6.3	0.0	-	-	-
113.0	50.0	0.0	6.0	0.0	0.0	0.0	0.0	-	-	-	-	-
113.0	55.0	-	4.4	0.0	0.0	0.0	0.0	-	-	-	-	-
115.0	27.0	-	-	-	-	-	-	103.2	16.2	-	-	-
115.0	30.0	-	-	-	-	-	-	149.6	0.0	-	-	-
115.0	35.0	-	-	-	-	-	-	34.1	0.0	-	-	-
115.0	40.0	-	-	-	-	-	7.0	0.0	0.0	-	-	-
117.0	26.0	0.0	0.0	0.0	10.1	0.0	0.0	103.9	8.6	-	-	-
117.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	358.8	0.0	-	-	-
117.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	24.2	0.0	-	-	-
118.0	39.0	0.0	5.2	-	0.0	0.0	0.0	-	-	-	-	-
118.5	25.0	-	-	-	-	-	-	39.3	0.0	-	-	-
118.5	30.0	-	-	-	-	-	-	97.7	3.5	-	-	-
118.5	35.0	-	-	-	-	-	-	66.8	3.5	-	-	-
120.0	25.0	0.0	0.0	0.0	0.0	0.0	188.7	30.1	0.0	-	-	-
120.0	30.0	0.0	114.8	60.0	99.7	435.6	24.8	62.4	0.0	-	-	-
120.0	35.0	-	-	-	-	-	-	29.1	8.2	-	-	-
120.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-
120.0	50.0	0.0	0.0	0.0	0.0	0.0	3.1	-	0.0	-	-	-
123.0	37.0	0.0	0.0	0.0	0.0	0.0	70.7	-	0.0	-	-	-
123.0	40.0	0.0	0.0	9.5	-	21.8	-	0.0	0.0	-	-	-

TABLE 4. (cont.)

*Citharichthys* spp. (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
123.0	45.0	-	100.5	-	-	-	-	0.0	0.0	-	-	-
123.0	50.0	0.0	0.0	0.0	0.0	3.7	0.0	-	0.0	-	-	-
127.0	34.0	0.0	0.0	0.0	5.5	0.0	-	0.0	0.0	-	-	-
127.0	40.0	0.0	0.0	12.1	0.0	0.0	0.0	0.0	0.0	-	-	-
127.0	50.0	0.0	0.0	0.0	3.1	4.0	0.0	-	-	-	-	-
130.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3	-	-	-
130.0	35.0	0.0	0.0	0.0	0.0	0.0	0.0	43.0	0.0	-	-	-
130.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	49.0	0.0	-	-	-
130.0	45.0	-	-	-	-	-	-	0.0	6.2	-	-	-
133.0	25.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	57.6	-	-	-
133.0	30.0	0.0	0.0	0.0	0.0	0.0	2.5	0.0	15.9	-	-	-
133.0	60.0	-	6.5	-	-	-	-	-	-	-	-	-
137.0	30.0	0.0	0.0	0.0	0.0	5.1	0.0	-	0.0	-	-	-
137.0	60.0	-	2.6	-	-	-	-	-	-	-	-	-
140.0	35.0	0.0	-	20.1	-	-	-	-	-	-	-	-

*Citharichthys fragilis*

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
107.0	35.0	0.0	0.0	0.0	0.0	5.7	0.0	-	-	-	-	-
110.0	33.0	0.0	0.0	0.0	0.0	6.4	244.7	103.4	0.0	-	-	-
110.0	35.0	0.0	0.0	0.0	0.0	0.0	172.8	29.9	0.0	-	-	-
110.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	21.5	0.0	-	-	-
113.0	30.0	0.0	0.0	0.0	0.0	0.0	275.2	238.9	0.0	-	-	-
113.0	35.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.4	-	-	-
113.0	40.0	0.0	0.0	0.0	0.0	0.0	4.8	3.1	2.5	-	-	-
113.0	45.0	-	0.0	0.0	0.0	0.0	67.2	-	-	-	-	-
113.0	60.0	0.0	4.0	0.0	0.0	0.0	0.0	-	-	-	-	-
113.0	70.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
115.0	27.0	0.0	-	-	-	-	-	1818.3	0.0	-	-	-
115.0	30.0	-	-	-	-	-	-	538.5	0.0	-	-	-
115.0	35.0	-	-	-	-	-	-	75.8	112.0	-	-	-
115.0	40.0	-	-	-	-	-	-	28.2	16.7	-	-	-
117.0	26.0	0.0	5.5	7.6	16.0	10.1	467.8	601.0	0.0	-	-	-
117.0	30.0	0.0	0.0	15.0	36.8	223.5	65.0	998.4	17.5	-	-	-
117.0	35.0	0.0	0.0	10.4	0.0	0.0	82.8	0.0	15.1	-	-	-
117.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0	0.0	-	-	-
117.0	45.0	-	0.0	0.0	0.0	0.0	13.4	-	-	-	-	-
117.0	50.0	3.2	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
117.0	55.0	-	0.0	0.0	8.2	0.0	0.0	-	-	-	-	-
118.0	39.0	0.0	0.0	-	0.0	0.0	55.2	-	-	-	-	-
118.5	25.0	-	-	-	-	-	-	157.3	34.9	-	-	-
118.5	30.0	-	-	-	-	-	-	267.8	45.4	-	-	-
118.5	35.0	-	-	-	-	-	-	80.2	27.6	-	-	-
119.0	33.0	3.0	35.3	65.3	0.0	0.0	480.3	-	-	-	-	-

TABLE 4. (cont.)

*Citharichthys fragilis* (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
120.0	25.0	14.8	0.0	0.0	78.0	229.3	1037.7	10.6	0.0	-	-	-
120.0	30.0	34.1	0.0	0.0	0.0	0.0	322.8	120.3	0.0	-	-	-
120.0	40.0	0.0	14.0	0.0	13.5	33.4	144.8	98.6	0.0	-	-	-
120.0	45.0	0.0	0.0	84.5	14.3	53.1	0.0	0.0	0.0	-	-	-
120.0	50.0	0.0	0.0	21.6	0.0	0.0	0.0	0.0	0.0	-	-	-
120.0	60.0	0.0	0.0	0.0	3.5	0.0	0.0	0.0	0.0	-	-	-
123.0	42.0	0.0	0.0	0.0	0.0	32.7	0.0	0.0	0.0	-	-	-
123.0	45.0	0.0	0.0	0.0	0.0	0.0	5.2	6.1	0.0	-	-	-
123.0	50.0	0.0	0.0	0.0	0.0	4.0	0.0	0.0	0.0	-	-	-
127.0	50.0	2.8	0.0	38.5	0.0	0.0	0.0	0.0	0.0	-	-	-
127.0	55.0	0.0	2.8	0.0	0.0	32.9	0.0	0.0	0.0	-	-	-
130.0	30.0	0.0	0.0	7.2	0.0	0.0	0.0	0.0	0.0	-	-	-
130.0	35.0	0.0	0.0	2.9	0.0	0.0	0.0	0.0	0.0	-	-	-
130.0	50.0	0.0	0.0	8.4	2.9	0.0	0.0	0.0	0.0	-	-	-
133.0	30.0	0.0	0.0	0.0	0.0	0.0	5.0	0.0	0.0	-	-	-
133.0	40.0	0.0	0.0	0.0	0.0	0.0	25.1	0.0	0.0	-	-	-
140.0	30.0	6.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-
140.0	40.0	0.0	0.0	8.1	0.0	0.0	0.0	0.0	0.0	-	-	-
147.0	25.0	0.0	0.0	4.8	0.0	0.0	0.0	0.0	0.0	-	-	-

*Citharichthys sordidus*

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
57.0	65.0	-	-	-	12.5	0.0	-	-	-	-	-	-
67.0	65.0	-	-	10.8	6.7	-	0.0	-	-	-	-	-
70.0	60.0	-	-	0.0	0.0	-	0.0	-	-	-	-	-
73.0	60.0	-	-	0.0	1.5	-	0.0	-	-	-	-	-
80.0	55.0	0.0	0.0	0.0	0.0	-	12.0	-	26.5	-	0.0	0.0
80.0	80.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0	-	0.0	6.1
80.0	90.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0	0.0
82.0	47.0	0.0	0.0	0.0	4.9	0.0	0.0	-	0.0	-	12.3	0.0
83.0	43.0	0.0	0.0	0.0	0.0	-	5.1	-	5.7	-	3.3	0.0
83.0	51.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0	-	0.0	0.0
83.0	55.0	0.0	0.0	3.3	0.0	-	0.0	-	5.5	-	0.0	0.0
83.0	60.0	0.0	0.0	0.0	0.0	-	0.0	-	11.9	-	2.9	0.0
87.0	36.0	0.0	4.9	0.0	0.0	0.0	5.2	-	0.0	-	0.0	0.0
87.0	40.0	0.0	0.0	7.2	0.0	0.0	0.0	-	0.0	-	0.0	0.0
87.0	45.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0	12.2
87.0	50.0	2.9	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0	0.0
87.0	55.0	0.0	0.0	0.0	0.0	0.0	0.0	-	2.9	-	0.0	0.0
87.0	60.0	0.0	0.0	0.0	0.0	0.0	4.0	-	0.0	13.6	0.0	0.0
90.0	30.0	0.0	0.0	0.0	0.0	0.0	11.7	-	0.0	0.0	0.0	0.0
90.0	37.0	26.8	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	0.0	0.0
97.0	30.0	0.0	0.0	0.0	0.0	0.0	9.6	-	0.0	0.0	0.0	0.0
100.0	40.0	0.0	0.0	0.0	5.5	0.0	0.0	-	0.0	0.0	0.0	0.0

TABLE 4. (cont.)

*Citharichthys sordidus* (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
103.0	35.0	0.0	0.0	0.0	0.0	0.0	5.8	-	-	-	-	-
107.0	50.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
107.0	60.0	0.0	0.0	4.9	0.0	0.0	0.0	0.0	2.6	-	-	-
110.0	33.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-
113.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
113.0	50.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
113.0	70.0	2.9	0.0	0.0	0.0	0.0	0.0	23.8	0.0	-	-	-
115.0	27.0	-	-	-	-	-	-	0.0	7.9	-	-	-
115.0	30.0	-	-	-	-	-	-	0.0	0.0	-	-	-
117.0	26.0	0.0	5.5	0.0	0.0	40.4	68.8	0.0	0.0	-	-	-
117.0	30.0	0.0	11.8	0.0	0.0	61.0	40.6	0.0	0.0	-	-	-
117.0	50.0	0.0	11.8	0.0	0.0	0.0	0.0	-	-	-	-	-
118.0	39.0	5.6	0.0	-	0.0	56.3	0.0	-	-	-	-	-
119.0	33.0	0.0	10.3	0.0	0.0	0.0	0.0	-	-	-	-	-
120.0	25.0	0.0	0.0	0.0	0.0	10.9	70.7	0.0	0.0	-	-	-
120.0	40.0	0.0	0.0	0.0	0.0	66.9	42.6	0.0	0.0	-	-	-
120.0	45.0	0.0	0.0	28.2	0.0	17.7	0.0	0.0	0.0	-	-	-
123.0	42.0	0.0	0.0	0.0	0.0	16.4	0.0	0.0	0.0	-	-	-
127.0	34.0	2.8	0.0	0.0	0.0	0.0	-	0.0	0.0	-	-	-

*Citharichthys stigmaeus*

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
57.0	65.0	-	-	-	12.5	0.0	-	-	-	-	-	-
63.0	55.0	-	-	0.0	2.1	-	0.0	-	-	-	-	-
73.0	60.0	-	-	0.0	5.2	-	0.0	-	-	-	-	-
73.0	60.0	-	-	0.0	0.0	-	6.0	-	-	-	-	-
80.0	51.0	0.0	-	0.0	0.0	-	0.0	-	0.0	-	3.1	0.0
80.0	55.0	0.0	0.0	0.0	0.0	-	0.0	-	26.5	-	0.0	0.0
80.0	70.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0	-	3.2	0.0
80.0	80.0	8.1	0.0	0.0	0.0	-	0.0	-	0.0	-	68.9	3.1
80.0	90.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0	-	5.9	0.0
82.0	47.0	6.1	0.0	0.0	0.0	0.0	0.0	-	17.2	-	40.0	5.9
83.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0	-
83.0	43.0	0.0	0.0	0.0	0.0	-	0.0	-	19.9	-	6.1	0.0
83.0	51.0	0.0	0.0	0.0	4.4	-	0.0	-	5.7	-	10.0	0.0
83.0	55.0	0.0	0.0	3.3	8.4	-	11.0	-	55.4	-	20.9	0.0
83.0	60.0	0.0	0.0	0.0	0.0	-	45.3	-	11.9	-	2.9	0.0
83.0	70.0	0.0	0.0	0.0	0.0	-	0.0	-	-	-	-	-
83.0	80.0	0.0	2.7	0.0	0.0	-	0.0	-	-	-	-	-
83.0	80.0	0.0	3.1	0.0	0.0	-	0.0	-	-	-	0.0	12.4
87.0	36.0	0.0	0.0	0.0	0.0	2.0	0.0	-	18.2	-	0.0	54.9
87.0	45.0	0.0	0.0	0.0	0.0	0.0	0.0	-	5.8	-	2.7	0.0
87.0	50.0	2.1	11.6	0.0	0.0	0.0	0.0	-	-	47.6	0.0	9.5
87.0	55.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	13.6	0.0	0.0
87.0	60.0	0.0	5.8	5.1	0.0	0.0	4.0	-	-	-	6.0	0.0



TABLE 4. (cont.)

*Citharichthys stigmaeus* (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
87.0	-	-	-	-	5.4	0.0	0.0	-	-	-	-	-
90.0	0.0	2.7	0.0	0.0	8.3	0.0	0.0	-	-	1.6	-	0.0
90.0	0.0	0.0	3.1	5.9	3.2	0.0	0.0	-	-	0.0	-	0.0
90.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	3.1	0.0	16.7
90.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	15.3	0.0	11.6
90.0	0.0	-	-	-	0.0	0.0	0.0	-	-	0.0	2.0	11.3
90.0	11.9	0.0	0.0	0.0	0.0	9.0	0.0	-	-	0.0	18.8	11.8
90.0	55.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	0.0	-	5.4
90.0	60.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	0.0	-	0.0
90.0	70.0	12.3	0.0	0.0	0.0	0.0	3.1	-	-	0.0	-	0.0
90.0	80.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	3.0	-	0.0
93.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	13.0	-	0.0
93.0	0.0	0.0	0.0	0.0	3.0	0.0	0.0	-	-	0.0	-	2.9
93.0	35.0	-	-	-	0.0	0.0	4.5	-	-	0.0	-	0.0
93.0	40.0	16.5	0.0	0.0	0.0	0.0	0.0	-	-	0.0	-	0.0
93.0	45.0	-	-	-	2.8	0.0	0.0	-	-	1.5	-	3.0
93.0	50.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	4.4	-	5.8
93.0	55.0	-	-	-	0.0	0.0	0.0	-	-	0.0	-	0.0
93.0	60.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	1.7	-	0.0
97.0	0.0	0.0	5.8	0.0	0.0	0.0	0.0	-	-	0.0	-	0.0
97.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	2.5	-	0.0
97.0	32.0	0.0	6.0	0.0	6.9	10.0	0.0	-	-	9.0	-	0.0
97.0	40.0	0.0	0.0	0.0	0.0	0.0	14.5	-	-	13.2	-	5.9
97.0	45.0	-	-	-	3.8	-	0.0	-	-	6.1	-	5.7
97.0	50.0	25.0	0.0	0.0	0.0	0.0	0.0	-	-	0.0	-	0.0
97.0	60.0	0.0	0.0	5.7	0.0	0.0	0.0	-	-	0.0	-	0.0
97.0	70.0	0.0	6.1	0.0	0.0	0.0	0.0	-	-	-	-	-
100.0	29.0	0.0	0.0	0.0	0.0	0.0	4.7	-	-	-	-	-
100.0	30.0	-	-	-	0.0	-	34.4	-	-	-	-	-
100.0	33.0	14.7	0.0	0.0	-	0.0	-	-	-	-	-	-
100.0	40.0	7.6	0.0	0.0	0.0	2.6	0.0	-	-	-	-	-
100.0	50.0	14.2	0.0	0.0	0.0	0.0	8.8	-	-	-	-	-
100.0	60.0	6.7	0.0	0.0	0.0	2.8	0.0	-	-	-	-	-
100.0	70.0	0.0	0.0	0.0	0.0	-	26.8	-	-	-	-	-
100.0	70.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
103.0	30.0	2.9	0.0	0.0	4.8	0.0	2.9	-	-	-	-	-
103.0	35.0	3.2	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
103.0	40.0	8.6	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
103.0	45.0	-	-	-	2.9	-	0.0	-	-	-	-	-
103.0	50.0	0.0	0.0	0.0	3.1	-	0.0	-	-	-	-	-
103.0	55.0	0.0	0.0	0.0	3.2	-	0.0	-	-	-	-	-
103.0	60.0	0.0	0.0	0.0	9.2	-	0.0	-	-	-	-	-
103.0	80.0	0.0	1.9	0.0	0.0	0.0	0.0	-	-	-	-	-
107.0	32.0	6.0	0.0	0.0	0.0	0.0	15.3	-	-	-	-	-
107.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
107.0	45.0	-	-	-	0.0	12.0	0.0	-	-	-	-	-
107.0	50.0	0.0	0.0	2.2	0.0	0.0	0.0	-	-	-	-	13.1
110.0	33.0	0.0	0.0	0.0	0.0	6.4	43.7	-	-	-	-	10.8
110.0	35.0	0.0	2.8	0.0	0.0	0.0	60.5	-	-	-	-	-
						59.8						
						44.8						

TABLE 4. (cont.)

*Citharichthys stigmaeus* (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
110.0	40.0	16.5	12.9	0.0	0.0	0.0	0.0	12.9	6.1	-	-	-
110.0	50.0	0.0	24.5	0.0	0.0	0.0	0.0	-	-	-	-	-
113.0	30.0	-	0.0	0.0	0.0	0.0	98.9	41.3	12.2	-	-	-
113.0	35.0	3.6	0.0	0.0	0.0	0.0	18.0	0.0	65.7	-	-	-
113.0	40.0	0.0	0.0	0.0	0.0	0.0	4.8	0.0	2.5	-	-	-
113.0	45.0	-	0.0	-	20.0	0.0	0.0	-	-	-	-	-
113.0	50.0	16.5	0.0	0.0	0.0	0.0	15.1	-	-	-	-	-
113.0	55.0	-	0.0	0.0	0.0	0.0	25.9	-	-	-	-	-
113.0	60.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
113.0	70.0	0.0	12.1	0.0	0.0	0.0	0.0	-	-	-	-	-
115.0	27.0	-	0.0	0.0	0.0	0.0	-	39.7	8.1	-	-	-
115.0	30.0	-	-	-	-	-	-	59.8	15.8	-	-	-
115.0	35.0	-	-	-	-	-	-	26.5	67.2	-	-	-
115.0	40.0	-	-	-	-	-	-	28.2	11.1	-	-	-
117.0	26.0	0.0	0.0	0.0	0.0	40.4	41.3	66.8	0.0	-	-	-
117.0	30.0	0.0	0.0	0.0	81.3	0.0	32.5	28.2	0.0	-	-	-
117.0	35.0	0.0	0.0	0.0	0.0	0.0	82.8	15.6	17.5	-	-	-
117.0	40.0	10.5	0.0	0.0	13.3	0.0	0.0	5.7	50.4	-	-	-
117.0	50.0	0.0	0.0	0.0	0.0	0.0	0.0	21.1	0.0	-	-	-
117.0	55.0	-	0.0	0.0	13.3	0.0	0.0	-	-	-	-	-
117.0	60.0	0.0	2.5	0.0	0.0	0.0	0.0	-	-	-	-	-
118.0	39.0	0.0	0.0	0.0	0.0	0.0	27.6	0.0	5.8	-	-	-
118.5	25.0	-	0.0	-	-	-	-	0.0	10.5	-	-	-
118.5	30.0	-	-	-	-	-	-	15.8	0.0	-	-	-
118.5	35.0	-	-	-	-	-	-	40.1	0.0	-	-	-
119.0	33.0	0.0	0.0	30.1	0.0	0.0	28.3	0.0	0.0	-	-	-
120.0	25.0	3.2	0.0	0.0	0.0	21.8	47.2	0.0	0.0	-	-	-
120.0	30.0	2.8	0.0	0.0	0.0	0.0	24.8	0.0	0.0	-	-	-
120.0	40.0	0.0	0.0	0.0	0.0	0.0	42.6	2.2	0.0	-	-	-
120.0	50.0	3.2	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
120.0	55.0	0.0	2.7	0.0	0.0	0.0	0.0	-	-	-	-	-
120.0	70.0	0.0	0.0	0.0	0.0	29.9	0.0	-	-	-	-	-
123.0	40.0	0.0	-	0.0	0.0	3.6	-	-	-	-	-	-
123.0	60.0	-	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
127.0	34.0	0.0	2.7	0.0	0.0	0.0	-	37.4	0.0	-	-	-
127.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	0.0	-	-	-
127.0	50.0	0.0	2.8	0.0	0.0	0.0	0.0	-	-	-	-	-

*Citharichthys xanthostigma*

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
83.0	55.0	-	-	0.0	0.0	-	0.0	-	5.5	-	0.0	0.0
87.0	55.0	-	-	0.0	0.0	0.0	0.0	-	-	6.8	0.0	0.0
93.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	1.4	-	0.0
110.0	33.0	0.0	0.0	0.0	0.0	0.0	0.0	16.3	2.6	-	-	-

TABLE 4. (cont.)

*Citharichthys xanthostigma* (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
110.0	35.0	0.0	0.0	0.0	0.0	0.0	8.6	19.9	0.0	-	-	-
110.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	12.9	3.1	-	-	-
113.0	30.0	0.0	0.0	0.0	0.0	0.0	30.1	32.5	0.0	-	-	-
113.0	35.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	34.4	-	-	-
113.0	40.0	0.0	0.0	4.9	0.0	0.0	9.6	6.3	2.5	-	-	-
113.0	55.0	-	0.0	-	0.0	0.0	25.9	-	-	-	-	-
115.0	27.0	-	-	-	-	-	-	166.7	4.1	-	-	-
115.0	30.0	-	-	-	-	-	-	418.8	39.4	-	-	-
115.0	35.0	-	-	-	-	-	-	37.9	112.0	-	-	-
115.0	40.0	-	-	-	-	-	-	77.4	0.0	-	-	-
117.0	26.0	0.0	0.0	0.0	0.0	20.2	130.7	192.9	0.0	-	-	-
117.0	30.0	0.0	0.0	0.0	0.0	121.9	16.2	390.0	58.4	-	-	-
117.0	35.0	0.0	0.0	0.0	0.0	18.7	248.2	0.0	75.6	-	-	-
117.0	40.0	0.0	0.0	0.0	0.0	6.6	0.0	39.3	13.3	-	-	-
118.0	39.0	5.6	0.0	-	164.2	0.0	82.8	-	-	-	-	-
118.5	25.0	-	-	-	-	-	-	0.0	5.8	-	-	-
118.5	30.0	-	-	-	-	-	-	88.2	14.0	-	-	-
118.5	35.0	-	-	-	-	-	-	187.0	20.7	-	-	-
119.0	33.0	0.0	5.2	0.0	0.0	0.0	395.5	-	-	-	-	-
120.0	25.0	0.0	0.0	0.0	0.0	65.5	943.3	21.1	3.7	-	-	-
120.0	30.0	0.0	0.0	0.0	0.0	0.0	124.2	210.6	3.5	-	-	-
120.0	40.0	0.0	0.0	0.0	0.0	0.0	417.5	49.3	0.0	-	-	-
120.0	45.0	0.0	0.0	0.0	7.2	31.9	0.0	6.8	0.0	-	-	-
120.0	50.0	0.0	0.0	3.1	0.0	0.0	0.0	-	-	-	-	-
120.0	55.0	0.0	0.0	0.0	12.0	0.0	0.0	-	-	-	-	-
120.0	37.0	0.0	0.0	0.0	0.0	0.0	0.0	102.2	0.0	-	-	-
123.0	40.0	0.0	6.5	0.0	0.0	0.0	0.0	17.6	6.5	-	-	-
123.0	42.0	0.0	-	0.0	0.0	32.7	0.0	9.1	58.2	-	-	-
123.0	45.0	-	0.0	0.0	0.0	-	-	-	-	-	-	-
123.0	60.0	0.0	0.0	5.1	0.0	0.0	0.0	-	-	-	-	-
127.0	34.0	0.0	0.0	0.0	0.0	13.2	0.0	65.5	0.0	-	-	-
127.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	9.6	9.2	-	-	-
127.0	45.0	-	0.0	-	9.7	0.0	0.0	0.0	3.6	-	-	-
127.0	55.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
127.0	60.0	-	2.8	0.0	0.0	0.0	0.0	-	-	-	-	-
130.0	35.0	0.0	0.0	0.0	0.0	0.0	0.0	28.6	33.1	-	-	-
130.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.6	-	-	-
130.0	45.0	-	0.0	-	0.0	0.0	0.0	0.0	6.2	-	-	-
130.0	50.0	0.0	2.8	0.0	5.8	0.0	0.0	-	-	-	-	-
133.0	30.0	0.0	10.1	0.0	0.0	0.0	5.0	12.1	107.5	-	-	-
133.0	40.0	0.0	0.0	0.0	0.0	0.0	150.7	-	-	-	-	-
137.0	30.0	0.0	12.4	0.0	0.0	0.0	102.0	14.7	16.4	-	-	-
140.0	35.0	0.0	-	4.5	-	-	-	-	-	-	-	-
140.0	40.0	0.0	-	5.4	-	-	-	-	-	-	-	-
143.0	30.0	0.0	-	0.0	-	-	-	-	-	-	-	-
143.0	35.0	0.0	-	5.1	-	-	-	-	-	-	-	-

TABLE 4. (cont.)

*Citharichthys xanthostigma* (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
147.0	25.0	0.0	-	0.0	-	-	-	-	-	-	-	-
147.0	30.0	0.0	-	0.0	-	-	-	-	-	-	-	-
<i>Hippoglossina stomata</i>												
82.0	47.0	0.0	0.0	0.0	0.0	0.0	9.4	-	0.0	-	0.0	0.0
90.0	37.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	3.1	0.0	0.0
110.0	33.0	0.0	0.0	0.0	0.0	0.0	4.4	5.4	0.0	-	-	-
113.0	35.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	-	-	-
113.0	50.0	0.0	0.0	0.0	0.0	0.0	15.1	-	-	-	-	-
115.0	27.0	0.0	0.0	0.0	0.0	0.0	-	15.9	0.0	-	-	-
117.0	35.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	-	-	-
117.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	0.0	-	-	-
118.0	39.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	-	-
118.5	30.0	5.6	0.0	-	-	-	-	6.3	0.0	-	-	-
118.5	35.0	-	-	-	-	-	-	13.4	0.0	-	-	-
119.0	33.0	0.0	0.0	45.2	0.0	0.0	0.0	-	-	-	-	-
120.0	25.0	4.9	0.0	0.0	26.0	0.0	23.6	0.0	0.0	-	-	-
120.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	-	-	-
120.0	40.0	9.3	4.7	0.0	0.0	0.0	8.5	6.7	0.0	-	-	-
120.0	45.0	6.1	0.0	0.0	0.0	7.1	12.3	0.0	0.0	-	-	-
120.0	50.0	0.0	0.0	3.1	12.1	0.0	0.0	-	-	-	-	-
123.0	42.0	0.0	0.0	0.0	0.0	8.2	0.0	0.0	0.0	-	-	-
127.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	-	-	-
127.0	50.0	0.0	0.0	5.5	0.0	0.0	0.0	0.0	-	-	-	-
133.0	30.0	0.0	0.0	0.0	0.0	0.0	7.5	0.0	0.0	-	-	-
133.0	40.0	0.0	0.0	0.0	0.0	0.0	25.1	0.0	-	-	-	-
140.0	35.0	0.0	-	2.2	4.3	-	-	-	-	-	-	-
143.0	26.0	1.9	-	0.0	-	-	-	-	-	-	-	-
<i>Paralichthys californicus</i>												
77.0	50.0	-	0.0	0.0	0.0	-	3.0	-	-	-	-	-
80.0	55.0	0.0	0.0	0.0	0.0	-	0.0	-	2.9	-	0.0	0.0
83.0	48.0	-	-	-	-	-	2.6	-	-	-	-	-
90.0	28.0	0.0	0.0	0.0	0.0	1.3	0.0	-	-	3.2	-	0.0
93.0	27.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	14.4	-	0.0
93.0	30.0	0.0	0.0	0.0	0.0	0.0	2.3	-	-	0.0	-	0.0
97.0	30.0	0.0	0.0	5.9	0.0	0.0	28.7	-	-	0.0	-	0.0
107.0	45.0	-	-	-	0.0	6.0	0.0	-	-	-	-	-
110.0	33.0	0.0	0.0	0.0	0.0	0.0	4.4	0.0	0.0	-	-	-
113.0	30.0	0.0	0.0	0.0	0.0	0.0	21.5	0.0	0.0	-	-	-

TABLE 4. (cont.)

*Paralichthys californicus* (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
115.0	27.0	-	-	-	-	-	-	15.9	0.0	-	-	-
117.0	26.0	0.0	0.0	0.0	0.0	10.1	0.0	7.4	0.0	-	-	-
117.0	30.0	0.0	0.0	0.0	0.0	20.3	0.0	31.2	0.0	-	-	-
117.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	0.0	-	-	-
119.0	33.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
120.0	30.0	0.0	0.0	0.0	0.0	12.1	0.0	0.0	0.0	-	-	-
120.0	40.0	0.0	18.7	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-
120.0	45.0	0.0	3.9	0.0	0.0	7.1	0.0	0.0	0.0	-	-	-

*Syacium ovale*

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
137.0	23.0	0.0	0.0	0.0	0.0	0.0	0.0	10.5	0.0	-	-	-
137.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	14.7	0.0	-	-	-

*Xystreureys liolepis*

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
137.0	30.0	0.0	0.0	0.0	0.0	5.1	0.0	0.0	0.0	-	-	-

*Glyptocephalus zachirus*

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
60.0	60.0	-	-	0.0	0.0	1.9	0.0	-	-	-	-	-
60.0	70.0	-	-	0.0	0.0	0.0	10.1	-	-	-	-	-
63.0	52.0	-	-	0.0	1.0	-	0.0	-	-	-	-	-
63.0	80.0	-	-	6.3	-	-	0.0	-	-	-	-	-
67.0	50.0	-	-	0.0	0.0	-	2.3	-	-	-	-	-
67.0	65.0	-	-	7.2	0.0	-	-	-	-	-	-	-
67.0	80.0	-	-	0.0	-	-	12.4	-	-	-	-	-
77.0	70.0	-	-	-	3.0	-	0.0	-	-	-	-	-

*Lyopsetta exilis*

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
50.0	50.0	-	-	-	11.6	0.0	-	-	-	-	-	-
50.0	90.0	-	-	-	13.4	0.0	-	-	-	-	-	-
60.0	55.0	-	-	0.0	0.0	0.0	14.8	-	-	-	-	-
60.0	57.0	-	-	3.1	-	0.0	-	-	-	-	-	-
63.0	52.0	-	-	2.4	3.9	-	0.0	-	-	-	-	-
63.0	55.0	-	-	0.0	6.4	-	0.0	-	-	-	-	-
63.0	60.0	-	-	-	-	-	11.7	-	-	-	-	-

TABLE 4. (cont.)

*Lyopsetta exilis* (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
67.0	55.0	-	-	46.3	0.0	-	0.0	-	-	-	-	-
67.0	65.0	-	-	0.0	1.1	-	-	-	-	-	-	-
70.0	52.0	-	-	2.3	2.3	-	0.0	-	-	-	-	-
70.0	60.0	-	-	21.7	0.0	-	0.0	-	-	-	-	-
73.0	50.0	-	-	6.6	0.0	-	0.0	-	-	-	-	-
77.0	55.0	-	-	9.6	2.1	-	0.0	-	-	-	-	-
80.0	51.0	-	-	0.0	3.4	-	0.0	-	0.0	-	0.0	0.0
80.0	70.0	0.0	3.2	0.0	2.2	14.9	0.0	-	0.0	-	0.0	0.0
82.0	47.0	0.0	20.7	0.0	0.0	-	0.0	-	0.0	-	0.0	0.0
83.0	40.0	0.0	0.0	0.0	0.0	-	0.0	-	2.0	-	0.0	0.0
83.0	43.0	0.0	2.8	0.0	0.0	-	0.0	-	0.0	-	0.0	0.0
83.0	51.0	0.0	5.3	0.0	0.0	-	0.0	-	0.0	-	0.0	0.0
87.0	36.0	0.0	0.0	0.0	5.1	0.0	0.0	-	0.0	-	0.0	0.0
87.0	40.0	0.0	6.4	0.0	0.0	-	0.0	-	0.0	-	0.0	0.0
90.0	30.0	0.0	0.0	0.0	3.2	0.0	0.0	-	0.0	0.0	0.0	0.0
100.0	29.0	0.0	0.0	0.0	0.0	7.6	4.7	-	-	-	-	-
107.0	32.0	0.0	3.3	0.0	9.4	0.0	0.0	-	-	-	-	-
110.0	33.0	2.3	0.0	13.1	0.0	12.8	4.4	0.0	0.0	-	-	-
110.0	40.0	0.0	0.0	0.0	0.0	0.0	2.3	0.0	0.0	-	-	-
110.0	50.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
110.0	60.0	0.0	22.8	0.0	0.0	0.0	0.0	-	-	-	-	-
113.0	60.0	0.0	5.6	0.0	0.0	0.0	0.0	-	-	-	-	-
113.0	60.0	0.0	4.0	0.0	0.0	0.0	0.0	-	-	-	-	-
113.0	70.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
115.0	35.0	-	-	-	0.0	-	-	3.8	0.0	-	-	-
117.0	26.0	2.9	22.0	15.2	0.0	0.0	13.8	0.0	0.0	-	-	-
117.0	30.0	0.0	0.0	0.0	0.0	30.5	0.0	0.0	0.0	-	-	-
117.0	35.0	0.0	0.0	25.9	0.0	0.0	0.0	0.0	0.0	-	-	-
117.0	40.0	0.0	0.0	2.7	25.7	0.0	0.0	0.0	0.0	-	-	-
118.0	39.0	0.0	0.0	-	20.5	0.0	0.0	-	-	-	-	-
119.0	33.0	0.0	36.1	35.1	17.4	0.0	0.0	-	-	-	-	-
120.0	25.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-
120.0	30.0	11.2	0.0	187.5	14.2	12.1	0.0	0.0	0.0	-	-	-
120.0	35.0	-	-	-	-	-	-	3.1	0.0	-	-	-
123.0	37.0	0.0	0.0	0.0	0.0	0.0	23.6	0.0	0.0	-	-	-
123.0	40.0	0.0	0.0	4.8	-	3.6	-	-	-	-	-	-
127.0	34.0	0.0	0.0	7.5	0.0	0.0	-	0.0	0.0	-	-	-
127.0	50.0	0.0	0.0	0.0	3.1	0.0	0.0	-	-	-	-	-
130.0	30.0	0.0	0.0	0.0	6.1	0.0	0.0	0.0	0.0	-	-	-
130.0	35.0	0.0	0.0	0.0	0.0	0.0	0.0	14.3	0.0	-	-	-

*Microstomus pacificus*

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
50.0	50.0	-	-	-	0.0	3.6	-	-	-	-	-	-
60.0	70.0	-	-	0.0	5.2	0.0	0.0	-	-	-	-	-

TABLE 4. (cont.)

*Microstomus pacificus* (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
70.0	52.0	-	-	0.0	2.1	-	0.0	-	-	-	-	-
70.0	55.0	-	-	0.0	22.3	-	0.0	-	-	-	-	-
70.0	60.0	-	-	10.8	0.0	-	0.0	-	-	-	-	-
70.0	80.0	-	-	0.0	12.9	-	0.0	-	-	-	-	-
73.0	50.0	-	-	0.0	5.2	-	0.0	-	-	-	-	-
77.0	55.0	-	-	4.8	0.0	-	0.0	-	-	-	-	-
80.0	70.0	0.0	0.0	0.0	13.3	-	0.0	-	0.0	-	0.0	0.0
80.0	80.0	0.0	0.0	0.0	1.2	-	0.0	-	0.0	-	0.0	0.0
83.0	70.0	-	-	0.0	0.0	10.8	0.0	-	-	0.0	-	-
87.0	55.0	-	-	0.0	0.0	2.8	0.0	-	-	-	-	-
87.0	80.0	-	-	0.0	0.0	0.0	6.1	-	-	0.0	-	-
90.0	80.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	0.0	-	-
93.0	45.0	-	-	-	2.8	-	0.0	-	-	0.0	-	-
93.0	75.0	-	-	-	6.8	-	0.0	-	-	-	-	-
97.0	60.0	0.0	0.0	0.0	12.8	-	0.0	-	-	0.0	-	-
107.0	55.0	-	-	-	12.0	-	0.0	-	-	-	-	-

*Parophrys vetulus*

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
80.0	55.0	0.0	0.0	0.0	21.7	-	0.0	-	0.0	-	0.0	0.0
82.0	47.0	0.0	0.0	0.0	4.9	14.9	0.0	-	0.0	-	0.0	0.0
83.0	40.0	0.0	0.0	0.0	2.8	-	0.0	-	0.0	-	0.0	0.0
87.0	36.0	0.0	4.9	0.0	12.6	0.0	2.6	-	-	-	0.0	0.0
87.0	50.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0	0.0
90.0	28.0	2.9	31.9	0.0	0.0	0.0	0.0	-	-	0.0	-	-
93.0	27.0	0.0	2.9	5.8	0.0	0.0	0.0	-	-	0.0	-	-
97.0	30.0	0.0	0.0	64.7	4.8	0.0	0.0	-	-	0.0	-	-
100.0	29.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
100.0	30.0	0.0	-	-	3.2	-	0.0	-	-	-	-	-
103.0	30.0	0.0	0.0	2.2	0.0	0.0	0.0	-	-	-	-	-
103.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
107.0	32.0	0.0	3.3	0.0	0.0	0.0	0.0	-	-	-	-	-
110.0	33.0	0.0	0.0	0.0	0.0	0.0	56.8	5.4	0.0	-	-	-
113.0	30.0	8.2	0.0	0.0	0.0	0.0	0.0	3.0	0.0	-	-	-
115.0	27.0	-	-	-	-	-	-	3.8	0.0	-	-	-
115.0	35.0	-	-	-	-	-	-	23.8	0.0	-	-	-
117.0	26.0	0.0	0.0	0.0	0.0	0.0	6.9	0.0	1.7	-	-	-
117.0	30.0	0.0	5.9	0.0	0.0	30.5	0.0	0.0	0.0	-	-	-
118.0	39.0	4.9	0.0	0.0	0.0	0.0	0.0	15.6	0.0	-	-	-
119.0	33.0	5.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
120.0	40.0	0.0	32.8	0.0	0.0	0.0	0.0	-	-	-	-	-
120.0	50.0	0.0	0.0	3.1	0.0	0.0	0.0	0.0	0.0	-	-	-

TABLE 4. (cont.)

*Pleuronichthys* spp.

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
80.0	60.0	0.0	0.0	0.0	1.6	-	0.0	-	0.0	-	0.0	0.0
90.0	50.0	-	-	-	0.0	5.9	0.0	-	-	0.0	0.0	0.0
90.0	70.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	0.0	-	0.0
110.0	35.0	0.0	0.0	0.0	0.0	0.0	0.0	14.9	0.0	-	-	-
110.0	55.0	-	-	-	24.8	0.0	0.0	-	-	-	-	-
113.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	17.7	0.0	-	-	-
115.0	35.0	-	-	-	0.0	-	-	0.0	11.2	-	-	-
117.0	26.0	0.0	0.0	7.6	0.0	0.0	0.0	0.0	0.0	-	-	-
117.0	35.0	0.0	0.0	0.0	0.0	0.0	0.0	5.7	0.0	-	-	-
120.0	30.0	0.0	0.0	45.0	12.1	0.0	0.0	0.0	0.0	-	-	-
120.0	35.0	-	-	-	-	-	-	6.2	0.0	-	-	-
123.0	37.0	0.0	0.0	0.0	0.0	0.0	23.6	0.0	0.0	-	-	-
123.0	45.0	-	6.3	-	-	-	-	0.0	0.0	-	-	-
137.0	30.0	0.0	0.0	0.0	0.0	0.0	20.4	0.0	0.0	-	-	-
137.0	40.0	0.0	0.0	0.0	0.0	0.0	3.2	0.0	0.0	-	-	-
143.0	30.0	0.0	-	10.0	-	-	-	-	-	-	-	-

*Pleuronichthys coenosus*

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
87.0	40.0	0.0	0.0	0.0	0.0	2.4	0.0	-	0.0	-	0.0	0.0
117.0	30.0	0.0	5.9	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-
123.0	42.0	-	-	0.0	0.0	16.4	0.0	0.0	0.0	-	-	-

*Pleuronichthys decurrens*

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
80.0	60.0	0.0	0.0	8.2	0.0	-	0.0	-	0.0	-	0.0	0.0
87.0	70.0	-	2.8	0.0	0.0	0.0	0.0	-	-	-	-	-

*Pleuronichthys iritteri*

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
110.0	35.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.4	-	-	-
113.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	-	-	-
115.0	27.0	-	-	-	-	-	-	47.6	0.0	-	-	-
120.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	30.1	0.0	-	-	-
120.0	40.0	0.0	18.7	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-



TABLE 4. (cont.)

*Pleuronichthys verticalis*

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
82.0	47.0	0.0	0.0	0.0	0.0	0.0	9.4	-	0.0	-	0.0	0.0
83.0	40.0	0.0	0.0	0.8	0.0	-	0.0	-	0.0	-	0.0	-
83.0	43.0	0.0	2.8	0.0	0.0	-	0.0	-	0.0	-	0.0	0.0
90.0	28.0	0.0	0.0	1.9	0.0	0.0	0.0	-	0.0	0.0	-	0.0
93.0	27.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	0.9	-	0.0
110.0	33.0	0.0	0.0	0.0	0.0	0.0	0.0	5.4	0.0	-	-	-
113.0	30.0	0.0	0.0	0.0	4.6	0.0	8.6	0.0	4.9	-	-	-
113.0	35.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	-	-	-
115.0	27.0	-	-	-	-	-	-	15.9	0.0	-	-	-
115.0	35.0	-	-	-	-	-	-	0.0	5.6	-	-	-
117.0	26.0	0.0	0.0	0.0	32.1	0.0	13.8	0.0	0.0	-	-	-
117.0	30.0	0.0	0.0	0.0	0.0	61.0	32.5	0.0	0.0	-	-	-
117.0	35.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	-	-	-
117.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-
118.0	39.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
118.5	30.0	-	-	-	-	-	-	3.2	0.0	-	-	-
120.0	25.0	0.0	0.0	11.0	0.0	0.0	70.7	10.6	0.0	-	-	-
120.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-
120.0	40.0	0.0	18.7	0.0	0.0	0.0	17.0	2.2	0.0	-	-	-
120.0	50.0	0.0	0.0	0.0	12.1	0.0	0.0	-	-	-	-	-
123.0	37.0	0.0	0.0	7.4	0.0	0.0	0.0	0.0	0.0	-	-	-

*Psettichthys melanostictus*

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
87.0	50.0	0.0	0.0	2.6	0.0	0.0	0.0	-	0.0	-	0.0	0.0

*Symphurus* spp.

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
110.0	33.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	-	-	-
113.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.9	-	-	-
113.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	-	-	-
115.0	27.0	-	-	-	-	-	-	7.9	8.1	-	-	-
115.0	40.0	-	-	-	-	-	-	0.0	5.6	-	-	-
117.0	26.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.9	-	-	-
117.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	15.6	26.3	-	-	-
117.0	35.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.6	-	-	-
117.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	9.1	6.7	-	-	-
118.5	30.0	-	-	-	-	-	-	0.0	10.5	-	-	-
118.5	35.0	-	-	-	-	-	-	53.4	10.4	-	-	-
119.0	33.0	0.0	0.0	0.0	0.0	0.0	28.3	-	-	-	-	-
120.0	25.0	0.0	0.0	0.0	0.0	0.0	0.0	31.7	0.0	-	-	-
120.0	30.0	0.0	0.0	0.0	0.0	0.0	49.7	240.7	0.0	-	-	-

TABLE 4. (cont.)

*Symphurus* spp. (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
120.0	35.0	-	-	-	-	-	-	65.5	8.2	-	-	-
120.0	40.0	0.0	0.0	0.0	0.0	0.0	34.1	11.2	23.3	-	-	-
120.0	45.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	30.0	-	-	-
123.0	37.0	0.0	0.0	0.0	0.0	0.0	0.0	22.7	5.5	-	-	-
123.0	42.0	0.0	-	0.0	0.0	0.0	0.0	17.6	19.6	-	-	-
123.0	45.0	-	0.0	-	0.0	0.0	-	3.0	65.5	-	-	-
127.0	34.0	0.0	0.0	0.0	0.0	0.0	-	18.7	2.8	-	-	-
127.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21.5	-	-	-
127.0	45.0	-	0.0	-	0.0	0.0	0.0	13.4	14.4	-	-	-
130.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.6	-	-	-
130.0	35.0	0.0	0.0	0.0	0.0	0.0	0.0	71.6	72.8	-	-	-
130.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	145.9	34.3	-	-	-
130.0	45.0	-	-	-	-	-	-	13.9	49.9	-	-	-
133.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.0	-	-	-
137.0	23.0	0.0	0.0	0.0	0.0	0.0	0.0	31.6	0.0	-	-	-
137.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	29.4	0.0	-	-	-
153.0	20.0	0.0	-	5.1	-	-	-	-	-	-	-	-
157.0	10.0	2.1	-	-	-	-	-	-	-	-	-	-

Disintegrated fish larva

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
40.0	80.0	-	-	-	0.0	7.1	-	-	-	-	-	-
63.0	80.0	-	-	6.3	0.0	-	0.0	-	-	-	-	-
67.0	65.0	-	-	0.0	1.1	-	-	-	-	-	-	-
70.0	80.0	-	-	0.0	0.0	-	5.4	-	-	-	-	-
80.0	55.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0	-	0.0	0.0
80.0	60.0	0.0	0.0	0.0	0.0	-	5.2	-	0.0	-	0.0	0.0
80.0	70.0	0.0	0.0	0.0	0.0	-	0.0	-	5.8	-	0.0	0.0
80.0	80.0	0.0	0.0	0.0	0.0	-	0.0	-	6.0	-	0.0	0.0
80.0	90.0	0.0	0.0	0.0	2.7	-	0.0	-	0.0	-	0.0	0.0
83.0	43.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0	-	0.0	0.0
83.0	60.0	2.6	0.0	6.8	0.0	-	0.0	-	0.0	-	0.0	0.0
87.0	40.0	0.0	0.0	0.0	3.6	0.0	0.0	-	0.0	-	0.0	0.0
87.0	45.0	-	-	-	0.0	0.0	34.0	-	0.0	-	0.0	0.0
87.0	60.0	5.8	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	0.0	0.0
90.0	28.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	0.0	0.0
90.0	30.0	11.3	6.3	0.0	3.2	0.0	0.0	-	1.4	-	-	-
90.0	37.0	0.0	22.7	0.0	5.3	0.0	0.0	-	0.0	0.0	4.8	0.0
90.0	45.0	0.0	6.5	0.0	0.0	0.0	0.0	-	0.0	0.0	0.0	0.0
90.0	60.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	0.0	0.0
90.0	75.0	-	-	-	0.0	0.0	0.0	-	0.0	0.0	0.0	0.0
90.0	90.0	-	0.0	0.0	6.4	1.6	0.0	-	0.0	0.0	-	0.0
93.0	50.0	2.7	0.0	0.0	0.0	5.9	0.0	-	0.0	0.0	-	0.0
93.0	60.0	3.0	0.0	3.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0

TABLE 4. (cont.)

Disintegrated fish larva (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
93.0	65.0	-	-	-	-	17.1	0.0	-	-	-	-	-
93.0	70.0	0.0	2.8	0.0	0.0	0.0	0.0	-	-	-	-	-
97.0	40.0	0.0	0.0	0.0	0.0	0.0	4.8	-	-	0.0	-	0.0
97.0	50.0	0.0	0.0	3.6	0.0	0.0	0.0	-	-	0.0	-	0.0
97.0	60.0	3.4	2.9	0.0	0.0	4.1	0.0	-	-	0.0	-	5.9
97.0	75.0	-	-	-	0.0	4.2	0.0	-	-	-	-	-
97.0	90.0	-	0.0	0.0	12.5	0.0	0.0	-	-	-	-	-
97.0	100.0	-	-	-	14.5	-	-	-	-	-	-	-
100.0	33.0	14.7	3.0	0.0	0.0	0.0	-	-	-	-	-	-
100.0	35.0	-	-	-	0.0	2.7	0.0	-	-	-	-	-
100.0	80.0	0.0	0.0	0.0	0.0	-	4.5	-	-	-	-	-
100.0	90.0	0.0	0.0	0.0	5.3	-	0.0	-	-	-	-	-
103.0	35.0	6.4	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
103.0	40.0	0.0	12.3	0.0	0.0	0.0	0.0	-	-	-	-	-
103.0	50.0	0.0	0.0	0.0	3.1	-	0.0	-	-	-	-	-
103.0	55.0	-	-	-	0.0	-	6.7	-	-	-	-	-
107.0	35.0	58.7	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
107.0	80.0	-	6.1	0.0	0.0	6.4	0.0	-	-	-	-	-
110.0	33.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	-	-	-
110.0	60.0	0.0	0.0	10.4	0.0	0.0	0.0	0.0	-	-	-	-
110.0	70.0	0.0	0.0	0.0	0.0	0.0	4.7	-	-	-	-	-
110.0	80.0	0.0	3.0	0.0	0.0	6.4	0.0	-	-	-	-	-
110.0	90.0	0.0	2.6	0.0	0.0	0.0	0.0	-	-	-	-	-
113.0	35.0	5.6	0.0	0.0	10.6	0.0	0.0	0.0	0.0	-	-	-
113.0	40.0	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-
113.0	70.0	2.9	0.0	0.0	0.0	6.4	4.8	0.0	0.0	-	-	-
115.0	27.0	-	-	-	-	0.0	0.0	7.9	0.0	-	-	-
115.0	40.0	-	-	-	-	-	-	0.0	5.6	-	-	-
117.0	30.0	0.0	5.9	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-
117.0	40.0	0.0	0.0	2.7	0.0	0.0	0.0	0.0	0.0	-	-	-
117.0	45.0	-	3.2	-	0.0	0.0	0.0	-	-	-	-	-
117.0	70.0	3.8	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
118.0	39.0	5.6	0.0	-	0.0	0.0	0.0	-	-	-	-	-
118.5	25.0	-	-	-	-	-	-	0.0	5.8	-	-	-
118.5	30.0	-	-	-	-	-	-	3.2	0.0	-	-	-
118.5	35.0	-	-	-	-	-	-	13.4	0.0	-	-	-
120.0	25.0	0.0	0.0	0.0	0.0	0.0	0.0	10.6	7.3	-	-	-
120.0	40.0	0.0	0.0	0.0	0.0	16.7	0.0	0.0	0.0	-	-	-
120.0	55.0	0.0	0.0	0.0	0.0	0.0	2.8	-	-	-	-	-
120.0	70.0	4.1	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
123.0	37.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5	-	-	-
123.0	40.0	-	6.5	0.0	-	0.0	-	-	-	-	-	-
123.0	45.0	-	6.3	0.0	-	0.0	-	-	0.0	-	-	-
127.0	34.0	0.0	0.0	0.0	0.0	6.6	0.0	0.0	0.0	-	-	-
127.0	45.0	10.4	0.0	-	0.0	3.8	0.0	0.0	2.8	-	-	-
127.0	55.0	0.0	0.0	-	-	0.0	0.0	-	0.0	-	-	-

TABLE 4. (cont.)

Disintegrated fish larva (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
130.0	30.0	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-
130.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	18.4	6.9	-	-	-
130.0	45.0	-	-	-	-	-	-	0.0	6.2	-	-	-
133.0	25.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.7	-	-	-
137.0	40.0	0.0	6.1	0.0	0.0	4.5	0.0	-	-	-	-	-
137.0	60.0	-	5.3	-	-	-	-	-	-	-	-	-
140.0	35.0	0.0	-	4.5	-	-	-	-	-	-	-	-
140.0	50.0	4.4	-	-	-	-	-	-	-	-	-	-
143.0	40.0	2.2	-	0.0	-	-	-	-	-	-	-	-
147.0	20.0	6.7	-	0.0	-	-	-	-	-	-	-	-
147.0	25.0	3.7	-	0.0	-	-	-	-	-	-	-	-
153.0	20.0	3.0	-	0.0	-	-	-	-	-	-	-	-

Unidentified fish larva

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
50.0	50.0	-	-	-	0.0	3.6	-	-	-	-	-	-
60.0	50.0	-	-	27.0	0.0	-	5.6	-	-	-	-	-
77.0	55.0	-	-	0.0	0.0	-	3.0	-	2.9	-	-	-
80.0	55.0	0.0	0.0	0.0	0.0	5.0	0.0	-	0.0	-	0.0	0.0
82.0	47.0	0.0	21.6	0.0	0.0	-	0.0	-	0.0	-	0.0	-
83.0	40.0	0.0	0.0	0.0	0.0	-	15.2	-	0.0	-	0.0	0.0
83.0	43.0	0.0	0.0	0.0	0.0	-	10.4	-	0.0	-	0.0	0.0
83.0	48.0	-	-	-	-	-	0.0	-	0.0	-	0.0	0.0
87.0	40.0	0.0	6.4	0.0	0.0	0.0	0.0	-	0.0	-	0.0	0.0
87.0	50.0	2.9	0.0	0.0	0.0	0.0	0.0	-	2.9	-	0.0	0.0
90.0	37.0	0.0	0.0	0.0	5.3	0.0	0.0	-	-	0.0	0.0	0.0
90.0	45.0	0.0	0.0	0.0	0.0	0.0	3.4	-	-	0.0	0.0	0.0
90.0	60.0	0.0	0.0	0.0	0.0	0.0	3.0	-	-	0.0	0.0	0.0
93.0	35.0	-	-	-	0.0	2.4	0.0	-	-	0.0	-	-
97.0	30.0	0.0	0.0	0.0	0.0	1.7	9.6	-	-	0.0	-	0.0
97.0	45.0	-	-	-	3.8	-	0.0	-	-	0.0	-	0.0
100.0	29.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	0.0	-	0.0
100.0	30.0	-	-	-	0.0	-	8.6	-	-	-	-	-
100.0	90.0	-	-	-	0.0	-	0.0	-	-	-	-	-
103.0	30.0	0.0	3.1	0.0	0.0	0.0	0.0	-	-	-	-	-
107.0	32.0	0.0	0.0	2.2	0.0	0.0	0.0	-	-	-	-	-
107.0	40.0	0.0	0.0	0.0	0.0	13.4	7.6	-	-	-	-	-
110.0	33.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.2	-	-	-
110.0	35.0	0.0	0.0	0.0	0.0	0.0	17.3	0.0	0.0	-	-	-
110.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3	0.0	-	-	-
110.0	75.0	-	-	-	0.0	29.2	-	-	-	-	-	-
110.0	90.0	-	0.0	2.1	0.0	0.0	4.0	-	-	-	-	-
113.0	30.0	0.0	4.4	0.0	0.0	0.0	21.5	3.0	0.0	-	-	-
113.0	55.0	-	-	-	0.0	0.0	0.0	-	-	-	-	-

TABLE 4. (cont.)

STATION	Unidentified fish larva (cont.)											
	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
113.0	60.0	0.0	0.0	0.0	0.0	0.0	12.5	-	24.4	-	-	-
115.0	27.0	-	-	-	-	-	-	0.0	5.2	-	-	-
117.0	26.0	0.0	0.0	0.0	0.0	0.0	20.6	7.4	2.9	-	-	-
117.0	30.0	0.0	0.0	0.0	0.0	0.0	16.2	31.2	-	-	-	-
117.0	55.0	-	-	-	-	-	14.2	-	-	-	-	-
118.0	39.0	0.0	0.0	0.0	0.0	0.0	27.6	-	-	-	-	-
118.5	35.0	-	-	-	-	-	-	13.4	0.0	-	-	-
120.0	25.0	0.0	0.0	0.0	10.9	23.6	0.0	10.6	0.0	-	-	-
120.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	30.1	0.0	-	-	-
120.0	40.0	0.0	14.0	0.0	0.0	17.0	0.0	17.9	11.6	-	-	-
120.0	50.0	0.0	0.0	0.0	0.0	3.1	0.0	-	-	-	-	-
123.0	37.0	0.0	0.0	0.0	0.0	0.0	0.0	204.5	5.5	-	-	-
123.0	42.0	0.0	0.0	0.0	0.0	0.0	0.0	23.4	0.0	-	-	-
123.0	45.0	-	12.6	-	-	-	-	3.0	7.3	-	-	-
123.0	50.0	0.0	0.0	0.0	3.7	0.0	0.0	-	-	-	-	-
127.0	34.0	0.0	0.0	0.0	0.0	0.0	-	74.9	2.8	-	-	-
127.0	40.0	0.0	0.0	0.0	0.0	3.3	3.3	0.0	0.0	-	-	-
127.0	45.0	-	-	-	-	-	0.0	6.7	3.6	-	-	-
127.0	60.0	-	-	-	-	12.1	12.1	-	-	-	-	-
130.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.1	-	-	-
130.0	35.0	0.0	0.0	0.0	0.0	0.0	0.0	43.0	0.0	-	-	-
130.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	61.2	0.0	-	-	-
130.0	45.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	0.0	-	-	-
130.0	50.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
130.0	60.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
133.0	25.0	0.0	0.0	0.0	0.0	0.0	0.0	11.3	84.5	-	-	-
133.0	30.0	48.0	0.0	0.0	0.0	0.0	22.5	0.0	11.9	-	-	-
133.0	50.0	-	-	-	-	-	0.0	-	-	-	-	-
137.0	23.0	0.0	0.0	0.0	6.7	3.4	0.0	0.0	0.0	-	-	-
137.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	147.3	0.0	-	-	-
140.0	35.0	12.4	0.0	0.0	-	-	-	-	-	-	-	-
143.0	26.0	4.1	0.0	0.0	-	-	-	-	-	-	-	-
147.0	40.0	-	-	-	-	-	-	-	-	-	-	-
153.0	40.0	-	-	-	-	-	-	-	-	-	-	-
157.0	10.0	8.2	0.0	0.0	-	-	-	-	-	-	-	-
157.0	20.0	7.7	0.0	0.0	-	-	-	-	-	-	-	-
157.0	30.0	2.4	0.0	0.0	-	-	-	-	-	-	-	-
157.0	40.0	-	2.5	3.1	-	-	-	-	-	-	-	-
157.0	50.0	-	-	-	-	-	-	-	-	-	-	-

TABLE 5. Summary of pooled occurrences of all larval fish taxa taken on CalCOFI surveys from 1951 to 1960. Taxa are listed in the same order as Table 4.

Name	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960
<i>Albula vulpes</i>	3	-	-	-	-	-	1	-	-	-
Anguilliformes	35	26	15	30	4	11	33	36	33	16
<i>Etrumeus acuminatus</i>	25	18	28	28	5	8	27	45	31	29
<i>Opisthonema</i> spp.	1	4	-	1	-	4	3	4	1	-
<i>Sardinops sagax</i>	167	269	221	375	255	167	174	193	172	142
Engraulidae	-	-	-	-	1	-	-	2	2	-
<i>Engraulis mordax</i>	394	524	686	760	569	537	581	785	888	979
Alepocephalidae	2	-	-	-	1	-	-	-	-	-
<i>Argentina sialis</i>	55	68	89	110	81	77	56	31	30	53
<i>Microstoma microstoma</i>	21	28	18	39	22	17	16	34	25	23
<i>Nansenia candida</i>	29	17	18	27	8	13	7	17	13	20
<i>Nansenia crassa</i>	50	63	65	47	61	32	74	49	27	38
<i>Bathylagus</i> spp.	-	-	-	1	3	1	4	13	7	3
<i>Bathylagus milleri</i>	1	-	-	1	1	2	-	1	1	1
<i>Bathylagus ochotensis</i>	153	222	208	195	162	171	111	237	106	190
<i>Bathylagus pacificus</i>	12	15	4	11	2	24	2	24	13	2
<i>Bathylagus wesethi</i>	259	370	258	365	286	157	298	377	275	184
<i>Leuroglossus schmidti</i>	-	-	-	-	-	3	-	-	-	-
<i>Leuroglossus stilbius</i>	402	502	612	517	508	465	343	350	324	505
Osmeridae	-	-	-	-	-	2	-	-	-	2
Stomiliformes	-	1	16	6	3	3	2	9	13	17
<i>Cyclothone</i> spp.	253	283	161	184	184	74	240	317	514	271
<i>Diplophos taenia</i>	8	1	-	4	1	3	3	28	36	18
<i>Ichthyococcus</i> spp.	16	23	12	26	30	3	18	37	43	8
<i>Vinciguerrria lucetia</i>	532	474	329	425	338	225	574	882	1209	635
Sternoptychidae	38	67	68	49	41	29	63	86	66	66
<i>Chauliodus macouni</i>	55	69	47	54	49	54	48	75	72	69
<i>Idiacanthus antrostomus</i>	48	31	14	19	10	6	19	33	38	36
<i>Aristostomias scintillans</i>	16	8	10	2	4	2	10	11	11	5
<i>Bathophilus</i> spp.	4	-	2	1	5	3	4	4	7	10
<i>Tactostoma macropus</i>	20	15	-	11	-	-	9	2	2	7
<i>Stomias atriventer</i>	96	120	86	124	87	20	67	182	181	142
Myctophiformes	-	-	-	-	-	-	-	-	-	2
<i>Anotopteris pharao</i>	1	-	-	-	-	-	1	-	-	-
Evermannellidae	-	-	-	-	-	-	-	-	-	-
Paralepididae	169	179	95	123	80	59	92	145	165	108
<i>Aulopus</i> spp.	1	-	-	-	-	1	1	3	6	3
<i>Scopelosaurus</i> spp.	59	54	17	28	34	16	43	50	16	15
Scopelarchidae	99	186	59	53	60	55	175	174	93	63
Myctophidae	140	78	33	41	58	36	165	159	245	317
<i>Ceratospinelus townsendi</i>	116	156	63	111	81	101	66	190	373	156
<i>Diaphus</i> spp.	39	22	-	10	10	14	63	44	120	76
<i>Lampadena urophaos</i>	576	555	393	154	58	45	125	121	260	46
<i>Lampanyctus</i> spp.	-	-	-	19	19	14	26	28	46	209
<i>Lampanyctus regalis</i>	-	-	-	308	296	214	306	416	429	12
<i>Lampanyctus ritteri</i>	-	-	-	-	-	-	-	-	-	311

TABLE 5. (cont.)

Name	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960
<i>Notolychnus valdiviae</i>	5	4	4	2	1	2	-	1	3	12
<i>Motoscopelus resplendens</i>	16	4	10	8	23	1	31	24	76	64
<i>Stenobrachius leucopsarus</i>	369	405	365	452	251	395	267	361	327	386
<i>Triphoturus mexicanus</i>	589	715	573	565	475	322	641	768	1069	808
<i>Centrobranchus</i> spp.	-	-	-	-	-	-	-	-	-	1
<i>Diogenichthys</i> spp.	10	3	2	-	6	3	30	35	79	97
<i>Diogenichthys atlanticus</i>	109	112	68	87	90	85	109	126	116	121
<i>Diogenichthys laternatus</i>	230	233	232	346	265	113	412	416	442	210
<i>Electrona rissoi</i>	15	4	4	-	1	-	-	-	2	1
<i>Gonichthys tenuiculus</i>	49	44	38	45	37	12	81	126	181	55
<i>Hygophum</i> spp.	29	20	23	10	6	6	15	47	91	73
<i>Hygophum atriatum</i>	47	35	33	36	43	22	88	96	138	21
<i>Hygophum proximum</i>	-	-	-	-	-	-	-	-	-	2
<i>Hygophum reinhardtii</i>	17	14	1	5	13	7	20	6	16	44
<i>Loweina rara</i>	19	18	33	29	14	5	7	8	9	10
<i>Myctophum aurolateratum</i>	6	-	-	1	1	4	3	13	4	4
<i>Myctophum nitidulum</i>	30	34	7	11	13	13	27	56	105	43
<i>Protomyctophum crockeri</i>	370	345	211	293	312	243	254	360	424	417
<i>Symblophorus californiensis</i>	206	183	132	146	102	60	142	216	191	109
<i>Tarletonbeania crenularis</i>	306	399	243	164	103	236	116	90	113	222
<i>Synodus</i> spp.	41	63	44	82	41	39	70	53	66	51
<i>Bregmaceros</i> spp.	2	-	-	1	3	-	13	11	13	19
<i>Merluccius productus</i>	351	366	417	543	439	365	331	541	340	468
Moridae	1	-	-	-	-	-	5	-	-	-
<i>Physiculus</i> spp.	9	-	-	-	-	2	8	5	2	3
Macrouridae	5	4	6	15	3	6	2	7	3	4
Ophidiiformes	68	53	52	37	26	37	74	61	43	41
<i>Brosomphycis marginata</i>	9	18	9	19	6	12	14	16	10	3
Carapidae	2	1	1	3	1	2	-	4	-	1
<i>Chilara taylori</i>	6	17	-	8	14	9	6	-	17	8
<i>Ophidion scrippsae</i>	17	13	5	17	4	19	53	15	44	43
<i>Porichthys</i> spp.	2	-	1	-	-	-	-	-	-	1
Antennariidae	1	-	-	-	-	-	1	-	-	-
Ceratioidei	3	3	-	2	-	2	16	16	50	19
Lophiidae	-	-	-	-	-	-	-	-	1	-
Gobiesocidae	-	1	-	-	1	-	1	1	1	1
Exocoetidae	8	2	6	1	-	1	5	1	6	4
Hemiramphidae	5	-	-	-	-	-	1	1	-	-
<i>Cololabis saira</i>	53	28	42	22	54	23	14	28	20	16
Atherinidae	2	6	3	7	3	3	1	2	1	1
Trachipteridae	32	40	28	17	13	12	28	31	12	32
<i>Melamphaes</i> spp.	221	233	151	189	166	138	212	238	209	157
<i>Poromitra</i> spp.	1	4	12	28	4	18	21	4	17	19
<i>Scopeloberyx robustus</i>	-	-	-	-	-	-	-	-	-	3
<i>Scopelogadus bispinosus</i>	4	4	1	15	6	5	26	27	60	26
Fistulariidae	1	-	-	-	-	-	-	1	-	-
<i>Macroramphosus gracilis</i>	1	-	-	-	2	-	2	1	1	1
<i>Syngnathus</i> spp.	5	6	12	4	6	2	5	2	3	7

TABLE 5. (cont.)

Name	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960
Agonidae	2	4	12	23	10	7	11	11	8	8
Anoplopoma fimbria	-	1	1	-	-	-	-	-	-	-
Cottidae	24	36	22	49	57	37	31	20	27	30
Scorpaenichthys marmoratus	6	8	3	17	4	13	3	6	4	6
Cyclopteridae	4	13	16	8	5	8	3	4	2	11
Hexagrammidae	1	-	-	-	-	-	1	2	-	1
Ophiiodon elongatus	-	1	4	3	2	7	1	3	-	9
Oxylebius pictus	-	1	9	5	4	9	2	6	3	9
Zaniolepis spp.	-	9	2	-	-	1	1	6	6	2
Scorpaenidae	10	-	-	-	-	15	30	9	2	29
Scorpaena spp.	600	686	771	841	637	613	558	665	602	572
Sebastes spp.	24	16	2	1	-	2	5	2	10	25
Sebastolobus spp.	24	19	12	13	-	19	30	25	28	17
Priometus spp.	2	-	-	-	-	1	2	-	-	1
Blennioidei	-	-	-	-	-	-	-	-	-	1
Bathymasteridae	18	32	38	27	14	11	26	51	59	47
Hypsoblennius spp.	7	4	12	19	15	17	14	20	15	18
Clinidae	116	107	61	113	56	71	93	84	108	67
Gobiidae	1	4	-	-	-	1	-	-	2	3
Icosteus enigmaticus	74	135	93	124	57	39	97	82	122	75
Labridae	37	27	-	14	-	8	24	9	18	2
Pomacentridae	-	-	-	21	4	18	12	16	16	38
Chromis punctipinnis	2	-	-	-	-	-	-	-	2	-
Hypsypops rubicundus	1	-	-	1	-	2	1	-	9	3
Mugil spp.	1	-	2	-	-	-	-	3	5	4
Apogonidae	4	1	-	2	2	-	15	5	9	6
Brama spp.	15	14	-	9	-	9	10	15	26	12
Carangidae	-	-	-	1	-	-	-	-	1	1
Seriola spp.	-	-	-	5	2	11	36	7	36	21
Seriola lalandi	372	419	322	373	369	217	295	328	286	227
Trachurus symmetricus	-	-	-	-	-	6	24	13	27	7
Coryphaena hippurus	-	-	-	-	-	-	13	5	7	8
Gerreidae	-	-	-	-	-	-	14	6	11	17
Haemulidae	-	-	-	-	-	-	14	6	11	17
Girella nigricans	-	5	-	1	-	3	3	4	2	4
Medialuna californiensis	9	11	-	17	5	5	12	4	1	4
Caulolatilus princeps	-	-	-	12	4	8	10	2	10	9
Mullidae	-	-	-	-	-	-	-	-	6	-
Priacanthidae	12	61	30	90	61	58	70	76	71	74
Sciaenidae	20	29	10	29	1	8	17	31	66	39
Serranidae	2	1	-	-	-	-	-	6	4	10
Gempylidae	9	1	1	1	2	-	7	4	3	40
Scombridae	-	1	1	1	-	9	23	3	20	-
Auxis spp.	-	-	-	-	-	-	-	-	3	-
Euthynnus spp.	-	-	-	-	-	-	-	-	9	-
Sarda chiliensis	59	73	97	119	93	4	1	2	65	45
Scomber japonicus	1	-	-	-	-	39	71	81	2	-
Scomberomorus spp.	-	-	-	-	-	1	1	3	2	-



TABLE 5. (cont.)

Name	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960
<i>Thunnus albacares</i>	-	-	-	-	-	-	-	8	2	-
Trichiuridae	23	31	16	36	25	28	47	24	61	45
<i>Sphyræna argentea</i>	14	16	5	6	3	14	15	15	27	28
<i>Ichthyothorax lockingtoni</i>	125	139	114	125	105	95	70	79	74	86
Nomeidae	-	-	-	-	-	-	5	2	9	3
<i>Peprilus simillimus</i>	14	50	28	38	47	34	37	26	22	12
<i>Tetragonurus cuvieri</i>	29	17	8	10	65	146	124	17	26	29
Chiasmodontidae	24	33	16	31	24	14	57	59	75	34
Uranoscopidae	1	-	-	-	-	-	1	1	1	2
Pleuronectiformes	9	13	48	46	13	6	5	11	5	16
Bothidae	-	1	-	-	-	-	-	-	-	-
Bothus spp.	3	-	1	3	1	2	4	8	4	2
<i>Citharichthys</i> spp.	428	524	561	147	158	82	127	118	121	151
<i>Citharichthys fragilis</i>	-	-	-	152	107	93	125	101	106	137
<i>Citharichthys platophrys</i>	-	-	-	-	56	59	62	69	48	20
<i>Citharichthys sordidus</i>	-	-	-	109	206	207	191	136	134	101
<i>Citharichthys stigmaeus</i>	-	-	-	347	163	106	208	80	118	117
<i>Citharichthys xanthostigma</i>	-	-	-	189	163	106	16	16	20	14
<i>Etropus</i> spp.	-	-	-	4	-	-	-	-	-	1
<i>Hippoglossina</i> spp.	1	-	-	-	-	-	-	-	-	-
<i>Hippoglossina stomata</i>	13	27	42	57	22	34	44	33	32	39
<i>Paralichthys</i> spp.	-	-	-	-	-	-	-	1	-	1
<i>Paralichthys californicus</i>	18	50	19	42	22	23	30	48	37	39
<i>Syacium ovale</i>	5	2	1	3	-	2	6	8	8	1
<i>Xystreureus liolepis</i>	3	16	10	5	4	1	7	2	5	8
<i>Eopsetta jordani</i>	-	1	-	-	-	-	-	-	-	-
<i>Glyptocephalus zachirus</i>	12	25	6	9	5	8	11	14	8	7
<i>Hypsopsetta guttulata</i>	-	-	2	-	-	-	1	3	-	1
<i>Isopsetta isolepis</i>	-	-	-	-	-	-	-	1	-	-
<i>Lyopsetta exilis</i>	51	80	68	116	57	74	90	50	48	50
<i>Microstomus pacificus</i>	28	30	17	17	30	19	26	20	20	15
<i>Parophrys vetulus</i>	-	31	45	51	50	36	39	62	29	30
<i>Pleuronichthys</i> spp.	14	14	10	18	23	18	7	13	7	10
<i>Pleuronichthys coenosus</i>	17	6	13	11	17	3	5	5	5	5
<i>Pleuronichthys decurrens</i>	4	4	4	2	4	2	3	4	4	3
<i>Pleuronichthys ritteri</i>	1	8	9	-	4	5	3	3	2	2
<i>Pleuronichthys verticalis</i>	3	44	24	31	26	33	40	7	7	36
<i>Psettichthys melanostictus</i>	-	-	-	5	-	1	5	5	3	2
<i>Symphurus</i> spp.	45	50	36	35	11	49	80	40	75	64
Balistidae	1	-	-	-	-	-	-	1	-	-
Tetraodontidae	2	-	-	-	1	-	-	-	-	-
Disintegrated fish larva	229	253	74	63	124	103	193	258	361	482
Unidentified fish larva	187	218	284	161	99	100	129	181	272	343

TABLE 6. List of stations with multiple occupancies in one month during 1956.

Station	Month	Station	Month
100.0	90.0	3	
103.0	50.0	3	
103.0	60.0	3	
103.0	70.0	3	
103.0	80.0	3	
103.0	90.0	3	
60.0	90.0	5	
63.0	52.0	5	
63.0	55.0	5	
63.0	65.0	5	
67.0	50.0	5	
67.0	55.0	5	
67.0	65.0	5	
70.0	52.0	5	
70.0	55.0	5	
70.0	60.0	5	
70.0	70.0	5	
70.0	80.0	5	
70.0	90.0	5	
73.0	50.0	5	
73.0	60.0	5	
73.0	70.0	5	
77.0	50.0	5	
77.0	55.0	5	
77.0	60.0	5	
77.0	70.0	5	
80.0	51.0	5	
80.0	55.0	5	
80.0	60.0	5	
80.0	70.0	5	
80.0	80.0	5	
80.0	90.0	5	
83.0	51.0	5	
83.0	55.0	5	
83.0	60.0	5	
83.0	70.0	5	
83.0	80.0	5	
83.0	90.0	5	
90.0	75.0	6	
90.0	80.0	6	
90.0	28.0	10	
90.0	30.0	10	
93.0	27.0	10	
93.0	30.0	10	
93.0	35.0	10	
93.0	40.0	10	
93.0	45.0	10	
93.0	50.0	10	
93.0	55.0	10	
93.0	60.0	10	

## INDEX

This index lists taxa included in Table 4 with their page numbers.

	Page
Anguilliformes .....	72
Clupeiformes	
Clupeidae	
<i>Etrumeus acuminatus</i> .....	72
<i>Opisthonema</i> spp. ....	72
<i>Sardinops sagax</i> .....	72
Engraulidae	
<i>Engraulis mordax</i> .....	75
Salmoniformes	
Argentinidae	
<i>Argentina sialis</i> .....	78
<i>Microstoma microstoma</i> .....	79
<i>Nansenia candida</i> .....	80
<i>Nansenia crassa</i> .....	80
Bathylagidae	
<i>Bathylagus</i> spp. ....	81
<i>Bathylagus milleri</i> .....	81
<i>Bathylagus ochotensis</i> .....	81
<i>Bathylagus wesethi</i> .....	84
<i>Leuroglossus schmidti</i> .....	86
<i>Leuroglossus stilbius</i> .....	86
Osmeridae .....	90
Stomiiformes .....	90
Gonostomatidae	
<i>Cyclothone</i> spp. ....	90
<i>Diplophos taenia</i> .....	92
<i>Ichthyococcus</i> spp. ....	92
<i>Vinciguerrria lucetia</i> .....	92
Sternoptychidae .....	95
Stomiatoidea	
Chauliodontidae	
<i>Chauliodus macouni</i> .....	95
Idiacanthidae	
<i>Idiacanthus antrostomus</i> .....	97
Malacosteidae	
<i>Aristostomias scintillans</i> .....	97
Melanostomiidae	
<i>Bathophilus</i> spp. ....	97
Stomiidae	
<i>Stomias atriventer</i> .....	97
Myctophiformes	
Alepisauroides	
Paralepididae .....	98
Chlorophthalmoidei	
Notosudidae	
<i>Scopelosaurus</i> spp. ....	99

	Page
Scopelarchidae .....	99
Myctophoidei	
Myctophidae .....	99
Lampanyctinae	
<i>Ceratoscopelus townsendi</i> .....	100
<i>Diaphus</i> spp.....	101
<i>Lampadena urophaos</i> .....	103
<i>Lampanyctus</i> spp.....	103
<i>Lampanyctus regalis</i> .....	104
<i>Lampanyctus ritteri</i> .....	105
<i>Notolychnus valdiviae</i> .....	107
<i>Notoscopelus resplendens</i> .....	108
<i>Stenobranchius leucopsarus</i> .....	108
<i>Triphoturus mexicanus</i> .....	111
Myctophinae	
<i>Diogenichthys</i> spp.....	114
<i>Diogenichthys atlanticus</i> .....	115
<i>Diogenichthys laternatus</i> .....	116
<i>Gonichthys tenuiculus</i> .....	117
<i>Hygophum</i> spp.....	118
<i>Hygophum atratum</i> .....	118
<i>Hygophum reinhardtii</i> .....	118
<i>Loweina rara</i> .....	119
<i>Myctophum aurolaternatum</i> .....	119
<i>Myctophum nitidulum</i> .....	119
<i>Protomyctophum crockeri</i> .....	120
<i>Symbolophorus californiensis</i> .....	123
<i>Tarletonbeania crenularis</i> .....	124
Synodontoides	
Synodontidae	
<i>Synodus</i> spp.....	127
Gadiformes	
Merlucciidae	
<i>Merluccius productus</i> .....	127
Moridae	
<i>Physiculus</i> spp.....	131
Macrouridae .....	131
Ophidiiformes .....	131
Bythitidae	
<i>Brosmophysis marginata</i> .....	132
Carapidae .....	132
Ophidiidae	
<i>Chilara taylori</i> .....	132
<i>Ophidion scrippsae</i> .....	133
Lophiiformes	
Ceratioidei .....	133
Beloniformes	
Exocoetidae .....	133
Scomberesocidae	
<i>Cololabis saira</i> .....	134
Atheriniformes	
Atherinidae .....	134

	Page
Lampriformes	
Trachipteridae .....	134
Beryciformes	
Melamphaidae	
<i>Melamphaes</i> spp. ....	135
<i>Poromitra</i> spp. ....	137
<i>Scopelogadus bispinosus</i> .....	137
Syngnathiformes	
Syngnathidae	
<i>Syngnathus</i> spp. ....	138
Scorpaeniformes	
Cottoidei	
Agonidae .....	138
Cottidae .....	138
<i>Scorpaenichthys marmoratus</i> .....	139
Cyclopteridae .....	139
Hexagrammidae	
<i>Ophidion elongatus</i> .....	139
<i>Oxylebius pictus</i> .....	139
<i>Zaniolepis</i> spp. ....	140
Scorpaenoidei	
Scorpaenidae .....	140
<i>Scorpaena</i> spp. ....	140
<i>Sebastes</i> spp. ....	140
<i>Sebastolobus</i> spp. ....	145
Triglidae	
<i>Prionotus</i> spp. ....	145
Perciformes	
Blennioidei .....	145
Blenniidae	
<i>Hypsoblennius</i> spp. ....	146
Clinidae .....	146
Gobioidei	
Gobiidae .....	146
Icosteoidi	
Icosteidae	
<i>Icosteus aenigmaticus</i> .....	147
Labroidei	
Labridae .....	148
Pomacentridae .....	148
<i>Chromis punctipinnis</i> .....	149
Mugiloidei	
Mugilidae	
<i>Mugil</i> spp .....	149
Percoidei	
Carangidae .....	149
<i>Seriola lalandi</i> .....	150
<i>Trachurus symmetricus</i> .....	150
Coryphaenidae	
<i>Coryphaena hippurus</i> .....	153
Kyphosidae	
<i>Girella nigricans</i> .....	153

	Page
<i>Medialuna californiensis</i> .....	153
Malacanthidae	
<i>Caulolatilus princeps</i> .....	153
Sciaenidae .....	154
Serranidae .....	155
Scombroidei	
Scombridae	
<i>Auxis</i> spp .....	155
<i>Sarda chiliensis</i> .....	155
<i>Scomber japonicus</i> .....	155
<i>Scomberomorus</i> spp .....	156
Trichiuridae .....	156
Sphyraenoidei	
Sphyraenidae	
<i>Sphyraena argentea</i> .....	157
Stromateoidei	
Centrolophidae	
<i>Icichthys lockingtoni</i> .....	157
Stromateidae	
<i>Peprilus simillimus</i> .....	159
Tetragonuridae	
<i>Tetragonurus cuvieri</i> .....	160
Trachinoidei	
Chiasmodontidae .....	162
Pleuronectiformes .....	162
Pleuronectoidei	
Bothidae	
<i>Bothus</i> spp. ....	162
Paralichthyidae	
<i>Citharichthys</i> spp. ....	163
<i>Citharichthys fragilis</i> .....	164
<i>Citharichthys sordidus</i> .....	165
<i>Citharichthys stigmaeus</i> .....	166
<i>Citharichthys xanthostigma</i> .....	168
<i>Hippoglossina stomata</i> .....	170
<i>Paralichthys californicus</i> .....	170
<i>Syacium ovale</i> .....	171
<i>Xystreurys liolepis</i> .....	171
Pleuronectidae	
<i>Glyptocephalus zachirus</i> .....	171
<i>Lyopsetta exilis</i> .....	171
<i>Microstomus pacificus</i> .....	172
<i>Parophrys vetulus</i> .....	173
<i>Pleuronichthys</i> spp. ....	174
<i>Pleuronichthys coenosus</i> .....	174
<i>Pleuronichthys decurrens</i> .....	174
<i>Pleuronichthys ritteri</i> .....	174
<i>Pleuronichthys verticalis</i> .....	175
<i>Psettichthys melanostictus</i> .....	175
Soleoidei	
Cynoglossidae	
<i>Symphurus</i> spp. ....	175

	Page
Disintegrated fish larva .....	176
Unidentified fish larva .....	178

## RECENT TECHNICAL MEMORANDUMS

Copies of this and other NOAA Technical Memorandums are available from the National Technical Information Service, 5285 Port Royal Road, Springfield, VA 22167. Paper copies vary in price. Microfiche copies cost \$4.50. Recent issues of NOAA Technical Memorandums from the NMFS Southwest Fisheries Center are listed below:

- NOAA-TM-NMFS-SWFC- 74 Abundance of zooplankton species in California coastal waters during April 1981, February 1982 and March 1985.  
A. ALVARIÑO and C.A. KIMBRELL  
(June 1987)
- 75 Data report on the vertical distribution of the eggs and larvae of northern anchovy, *Engraulis mordax*, at two stations in the Southern California Bight, March-April 1980.  
T. POMMERANZ and H.G. MOSER  
(July 1987)
- 76 Report of a marine mammal survey of the Eastern Tropical Pacific aboard the research vessel *David Starr Jordan*, July 29-December 5, 1986.  
R.S. HOLT and S.N. SEXTON  
(August 1987)
- 77 Report of a marine mammal survey of the Eastern Tropical Pacific aboard the research vessel *McArthur*, July 29-December 6, 1986.  
R.S. HOLT and A. JACKSON  
(August 1987)
- 78 Results of the Bay Area Sportfish Economic Study (BASES)  
C.J. THOMSON and D.D. HUPPERT  
(August 1987)
- 79 Ichthyoplankton and station data for California Cooperative Oceanic Fisheries Investigations survey cruises in 1951.  
D.A. AMBROSE, R.L. CHARTER, H.G. MOSER and C.R. SANTOS METHOT  
(September 1987)
- 80 Ichthyoplankton and station data for California Cooperative Oceanic Fisheries Investigations survey cruises in 1952.  
E.M. SANDKNOP, R.L. CHARTER, H.G. MOSER, and J.D. RYAN  
(September 1987)
- 81 Ichthyoplankton and station data for California Cooperative Oceanic Fisheries Investigations survey cruises in 1953.  
E.G. STEVENS, R.L. CHARTER, H.G. MOSER, and M.S. BUSBY  
(September 1987)
- 82 Ichthyoplankton and station data for California Cooperative Oceanic Fisheries Investigations survey cruises in 1954.  
B.Y. SUMIDA, R.L. CHARTER, H.G. MOSER, and D.L. SNOW  
(September 1987)
- 83 Ichthyoplankton and station data for California Cooperative Oceanic Fisheries Investigations survey cruises in 1955.  
D.A. AMBROSE, R.L. CHARTER, H.G. MOSER, and C.R. SANTOS METHOT  
(September 1987)