

NOAA Technical Memorandum NMFS



SEPTEMBER 1999

ICHTHYOPLANKTON AND STATION DATA FOR CALIFORNIA COOPERATIVE OCEANIC FISHERIES INVESTIGATIONS SURVEY CRUISES IN 1987

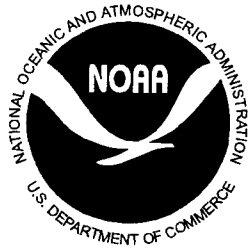
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NOAA-TM-NMFS-SWFSC-268

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

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NOAA Technical Memorandum NMFS

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ABSTRACT

This report provides ichthyoplankton data and associated station and tow data from California Cooperative Oceanic Fisheries Investigations (CalCOFI) cruises conducted in the Southern California Bight region in 1987. It is the 27th report in a series that presents these data for all biological-oceanographic CalCOFI surveys from 1951 to the present. A total of 254 stations was occupied during quarterly cruises over the survey area which extended from Avila Beach to San Diego, California. Transects extended seaward in a southwesterly direction to a maximum of approximately 330 n. mi. The most seaward station, 90.0 120.0, was approximately 400 n. mi. west of Punta Baja, Baja California, Mexico. The data are listed in a series of four tables; the background, methodology, and information necessary for interpretation 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 table lists, by station and month, standardized counts of each of the 148 larval fish categories identified from survey samples. This series of reports makes the CalCOFI ichthyoplankton and station data available to all investigators and serves as a guide to the computer data base.

INTRODUCTION

This report, the 27th in the series, provides ichthyoplankton and associated station and tow data from California Cooperative Oceanic Fisheries Investigations (CalCOFI) joint biological-oceanographic survey cruises conducted in 1987. This 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 these fluctuations. CalCOFI is a partnership among the Southwest Fisheries Science Center of the National Marine Fisheries Service (NMFS), the Scripps Institution of Oceanography (SIO), and the California Department of Fish and Game (CDFG). NMFS and SIO supply ships and personnel to conduct the sea surveys, NMFS processes the plankton samples and analyzes the ichthyoplankton from them. SIO processes and analyzes hydrographic and biological samples and analyzes invertebrate groups from the plankton samples.

The boundaries, station placement, and sampling frequency for the CalCOFI surveys were based on the results of joint biological-oceanographic cruises conducted by NMFS and SIO during 1939–1941. Originally, CalCOFI cruises were designed to collect sardine eggs and larvae and associated hydrographic data over the entire areal and seasonal spawning range of the species. From 1951 to 1960 the surveys were annual with cruises conducted monthly. The survey area was occupied quarterly during 1961–1965 and in 1966 the surveys became triennial with monthly cruises. Beginning in 1985 annual surveys were resumed, with quarterly cruises occupying only the Southern California Bight region (see Hewitt 1988 and Moser et al. 1993, 1994 for summaries of CalCOFI historical sampling effort).

Hydrographic and biological data from the 1987 CalCOFI survey have been published by the Scripps Institution of Oceanography (Univ. of Calif., SIO 1987, 1988). All available records for the 1987 CalCOFI surveys were verified and edited to produce this ichthyoplankton data report. These reports make the CalCOFI ichthyoplankton and station data available to all investigators and serve as guides to the computer data base. They are the basic documents against which changes in the data base can be compared as it is modified to correct errors and update earlier identifications. Citations for previous reports in this series are:

Survey	Report	Survey	Report
1951	Ambrose et al. 1987a	1964	Sandknop et al. 1988b
1952	Sandknop et al. 1987a	1965	Stevens et al. 1988a
1953	Stevens et al. 1987a	1966	Sumida et al. 1988b
1954	Sumida et al. 1987a	1967	Ambrose et al. 1988b
1955	Ambrose et al. 1987b	1968	Sandknop et al. 1988c
1956	Stevens et al. 1987b	1969	Stevens et al. 1988b
1957	Sumida et al. 1987b	1972	Sumida et al. 1988c
1958	Sandknop et al. 1987b	1975	Ambrose et al. 1988c
1959	Stevens et al. 1987c	1978	Sandknop et al. 1988d
1960	Ambrose et al. 1987c	1981	Ambrose et al. 1988d
1961	Sandknop et al. 1988a	1984	Stevens et al. 1990
1962	Sumida et al. 1988a	1985	Ambrose et al. 1999
1963	Ambrose et al. 1988a	1986	Charter et al. 1999

SAMPLING AREA AND PATTERN

A total of 254 standard CalCOFI survey stations was occupied on four cruises in 1987, employing two research vessels:

8703, RV *David Starr Jordan*, 62 stations, March 2–17;

8705, RV *David Starr Jordan*, 66 stations, April 30–May 14;

8709, RV *New Horizon*, 64 stations, September 4–19;

8711, RV *New Horizon*, 62 stations, November 13–28.

The survey area extended from Avila Beach to San Diego, California and seaward on six survey lines to approximately 120–330 n. mi. (Figures 1 and 2).¹ The most seaward station, 90.0 120.0, was approximately 400 n. mi. west of Punta Baja, Baja California, Mexico. Stations on CalCOFI lines 76.7 extended seaward to station 100.0 on cruises 8703 and 8705, to station 90.0 on 8709, and to station 80.0 on 8711. Stations on line 80.0 extended seaward to 100.0 on 8703 and 8705 and to 90.0 on 8709 and 8711. Stations on lines 83.3 and 86.7 extended to station 100.0 on 8703 and to 110.0 on all other cruises. On lines 90.0 and 93.3 stations extended seaward to station 120.0 on all cruises (Figures 1 and 2).

¹ Beginning in 1981 we changed our designation of ordinal survey lines (those ending in "3" and "7") to an exact decimal notation. Thus, lines 77, 83, 87, 93, etc. were changed to 76.7, 83.3, 86.7, 93.3, etc. to indicate the spacing between cardinal lines (those ending in "0"). Scripps Institution of Oceanography continues to use the original designation for ordinal lines (Figures 1 and 2 and see Univ. of Calif., SIO 1986a, b, 1987).

SAMPLING GEAR AND METHODS

In 1978, the standard 1-m ring net with towing bridle was replaced by a bridle-free "bongo" net. The bongo frame (McGowan and Brown 1966; Smith and Richardson 1977) consists of a pair of circular frames connected to a central axle. The axle is free to rotate so that the mouth openings are vertical during the tow. The standard CalCOFI net has 71 cm diameter frames and net material constructed of nylon mesh. Each net consists of a cylindrical section ~ 146 cm long, a truncated conical section ~ 161 cm long, and a detachable cod end. The starboard net, from which the standard sample is taken, is constructed of 0.505 mm mesh. The sample from the port side is used for other purposes; the mesh size is either 0.505 mm or 0.333 mm depending on requirements. The cod end of each net is constructed of 0.333 mm mesh.

The standard tow in 1987 was a double oblique haul to 210 m depth (to 15m from the bottom in shallow areas) designed to filter a constant amount of water per depth interval (~ 2 m³/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 to the towing cable above a 34 kg weight suspended below the surface. The net was lowered to ~ 210 m depth by paying out 300 m of wire at 50 m/minute (35 m of depth/minute). After fishing at depth for 30 seconds, the net was retrieved at 20 m/minute (14 m of depth/minute). The angle of stray was recorded every 30 seconds and maintained at 45° (± 3°) by adjusting ship speed and course. After reaching the surface, the nets were washed down and the samples preserved in 5% formalin buffered with sodium borate. At the beginning and end of each tow readings were made from a flow meter suspended in the mouth of the starboard net. Detailed descriptions of gear and methods are given by Kramer et al. (1972) and Smith and Richardson (1977); Ohman and Smith (1995) provided summaries of historical CalCOFI zooplankton methods and calibration factors for the various gear types.

LABORATORY PROCEDURES

We determined a zooplankton displacement volume for each sample (methods described in Staff, SPFI 1953 and Kramer et al. 1972). Samples containing > 25 ml of plankton were fractioned to ~ 50% of their original volume. Aliquot percentages for fractioned samples are listed in Table 1 under the "Percent Sorted" column. Sorting involved the removal of ichthyoplankton from the samples and identification and separation of: eggs and larvae of Pacific sardine, northern anchovy, and Pacific saury, and larvae of Pacific hake. Body lengths of sardine, anchovy, and hake larvae were measured to the nearest 0.5 mm.

A standard haul factor (SHF) was calculated for each tow to make them comparable and to allow estimation of areal abundance. The SHF is calculated 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 (m³) 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 (m²) of the mouth of the net

p = length of the column of water needed 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 1987. 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 done by a separate group of specialists. Early 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 linking these series through overlapping features to known metamorphic, juvenile, or adult stages (Powles and Markle 1984). Our ability to identify larvae in the California Current region improved greatly during 1988– 1995 as a result of an intensive research project aimed at producing a taxonomic monograph on the ontogenetic stages of fishes of this region (Moser 1996). Except for damaged specimens, most larvae in the 1988 surveys could be identified to species. A total of 148 larval fish categories (including unidentified and disintegrated) was identified for 1987: 121 to species, 17 to genus, 9 to family or subfamily, and 1 to suborder. Identifications were done in the Ichthyoplankton Ecology Laboratory of the Coastal Fisheries Resources Division by William Isham and Ernesto Calix of MEC Analytical Systems, working closely with larval fish identification experts in the laboratory who checked each sample.

With few exceptions, taxonomic categories above species represent small specimens which were damaged and partly disintegrated during capture. The following taxonomic categories in Tables 2– 4 require special explanation:

Cyclothone spp. – small or damaged larvae, mostly *C. acclinidens* and/or *C. pseudopallida* lacking diagnostic characters.

Cyclothone acclinidens, *C. pseudopallida* – larger larvae (primarily postflexion stage) having diagnostic pigmentation characters.

Diaphus spp. – *Diaphus theta* is the dominant *Diaphus* species in the survey area and most, if not all, of the larvae from the Southern California Bight region are this species; the generic category is used because a small proportion of the *Diaphus* larvae captured at the outer margin of the survey pattern may represent other species whose larvae are identical to those of *D. theta*.

Disintegrated fish larvae – larvae that could not be identified because of their poor condition; separated from the "unidentified" category to monitor the general condition of the ichthyoplankton samples through the time series.

Glyptocephalus zachirus – see comment for Pleuronectidae

Howella spp. – larvae represent a single species, either *H. brodiei* or *H. shernborni*; taxonomy of the adult is unresolved.

Lampanyctus spp. – primarily small (< 5.0 mm) larvae of *L. ritteri* and *L. regalis*; Zahuranec (In Press) has placed 17 species of *Lampanyctus* with small or absent pectoral fins in the genus *Nannobranchium*; four of these species occur in the current CalCOFI survey area (*L. regalis*, *L. ritteri*, and two undescribed species designated here by the descriptive names *Lampanyctus* "no

pectorals" and *Lampanyctus "niger"*).

Lyopsetta exilis – see comment for Pleuronectidae.

Microstoma spp. – larvae of a distinct but undescribed microstomatid species.

Neoclinus – *Neoclinus blanchardi*, *N. stephensae* and *N. uninotatus* occur in the area, but only the first two species have been identified in samples; larvae < 6 mm have not been identified to species.

Parophrys vetulus – see comment for Pleuronectidae.

Pleuronectidae – Sakamoto (1984) changed pleuronectid generic designations for species in the CalCOFI area as follows: 1) *Glyptocephalus zachirus* was changed to *Errex zachirus*; 2) *Isopsetta isolepis*, *Lepidopsetta bilineata*, and *Parophrys vetulus* were transferred into *Pleuronectes* and 3) *Lyopsetta exilis* was changed to *Eopsetta exilis*; although these changes were incorporated in the lists of Robins et al. (1991) and Eschmeyer (1998) we follow Nelson (1994) in retaining the older nomenclature because Sakamoto's (1984) changes were based on a phenetic study; also, the older names are used in the major identification guides to fishes of our region (Miller and Lea 1972, Eschmeyer et al. 1983, Matarese et al. 1989, and Moser 1996).

Sebastolobus spp. – larvae of this genus < 10 mm in length are not identifiable to species; larvae > 10 mm are identified as *S. alascanus* or *S. altivelis*.

Unidentified fish larvae – larvae that were generally in good condition but could not be identified because of their small size or early stage of development.

Vinciguerria lucetia – *V. lucetia*, an eastern tropical Pacific species, is common in the present CalCOFI region whereas the central water mass species *V. poweriae* is encountered rarely, usually only at the most seaward CalCOFI stations; a small percentage of *V. poweriae* larvae may have been included in the *V. lucetia* category because of the difficulty in separating early larvae which often are virtually identical.

SPECIES SUMMARY

Of the five most abundant larvae in 1987, the northern anchovy (*Engraulis mordax*) ranked first in abundance (74.0% of the total larvae) and first in occurrence with 48.0% positive tows (Tables 2 and 3). The Pacific hake (*Merluccius productus*) ranked second in abundance with 3.4% of the total larvae and eighth in occurrence (26.8% positive tows). The Panama lightfish (*Vinciguerria lucetia*) ranked third with 2.83% of the larvae and ranked eleventh in occurrence (24.8% of the tows). The myctophid *Stenobrachius leucopsarus* was the fourth most abundant taxon with 2.82% of the total larvae and ranked fourth in frequency of occurrence (36.6% of the samples). The rockfish genus *Sebastes* ranked fifth in abundance (2.6% of total larvae) and third in occurrence (37.8% of the samples). The next five most abundant taxa were the California smoothtongue *Leuroglossus stilbicus* (2.5% of the total larvae), the popeye blacksmelt *Bathylagus ochotensis* (1.2%), the Pacific mackerel (1.0%), the Pacific sardine *Sardinops sagax* (0.8%), and the Jack mackerel *Trachurus symmetricus* (0.7%). These species ranked 7th, 6th, 25th, 34th and 18th in frequency of occurrence, respectively. The 10 most abundant taxa comprised 91.7% of all the larvae collected on CalCOFI cruises in 1987. The remaining 8.3% was distributed among 138 other taxa (including the "disintegrated" and "unidentified" categories). Of the ten most abundant taxa, four are coastal pelagic species, four are midwater species, and two are coastal demersal taxa.

EXPLANATION OF TABLES

Table 1. This table lists for each tow the pertinent station and tow data, the volume of water filtered, the standard haul factor, the plankton volume, the percentage of sample sorted, and the total number 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 1 and 2). Stations are designated by two groups of numbers; the first set indicates the line and decimal fraction and the second set indicates the station and decimal fraction. Time is listed as Pacific Standard Time at the start of each tow in 24-hour designation. Plankton displacement volumes were determined after removal of large organisms (those with individual displacement volumes > 5 ml) and expressed as ml per 1000 m³ of water filtered. The values for total fish eggs and larvae are raw counts (unadjusted for percent of sample sorted or standard haul factor). Ship codes are as follows: JD, *David Starr Jordan*; NH, *New Horizon*. The listings for station latitude and longitude in this table may differ from values given for the same station in the SIO data reports, reflecting the slight difference in position of the net tow and hydrocast. Dates given here and in Figures 1 and 2 for the beginning and end of each cruise are based on Pacific Standard time at the first and last net tow station of the cruise and do not include transit time from port to the first station and to port after the last station. Thus, our cruise dates may differ slightly from those in SIO reports which are based on GMT prior to 1990 and include transit time to the first station and from the last station.

Table 2. Pooled occurrences of all larval fish taxa taken on CalCOFI survey cruises in 1987 listed in rank order.

Table 3. Pooled counts of all larval fish taxa taken on CalCOFI survey cruises in 1987 listed in rank order. Numbers are adjusted for percent sorted and standard haul factors.

Table 4. Numbers of fish larvae for each taxon, listed by station and calendar month of the tow. Counts are adjusted for percentage of sample sorted and standard haul factor. The orders are listed in phylogenetic sequence (Eschmeyer 1998).

ACKNOWLEDGMENTS

The following NMFS personnel were responsible for making the collections at sea: Dimitry Abramenkoff (8705, 8709, 8711), David Ambrose (8703), Ronald Dotson (8703, 8705), William Flerx (all cruises), Susan Jacobson (8703), Cynthia Meyer (8703), and Susan Manion (8711). The samples were sorted by Lucy Dunn, Frances Pocinich, and Jean Haddox. William Isham and Ernesto Calix identified the samples in conjunction with the senior author and other personnel of the ichthyoplankton group (David Ambrose, Sharon Charter, William Watson). Amy Hays and Susan Manion entered the data and Susan Jacobson provided programming assistance. The cooperation and assistance provided by the crews of the CalCOFI research vessels were instrumental in making the collections and observations at sea.

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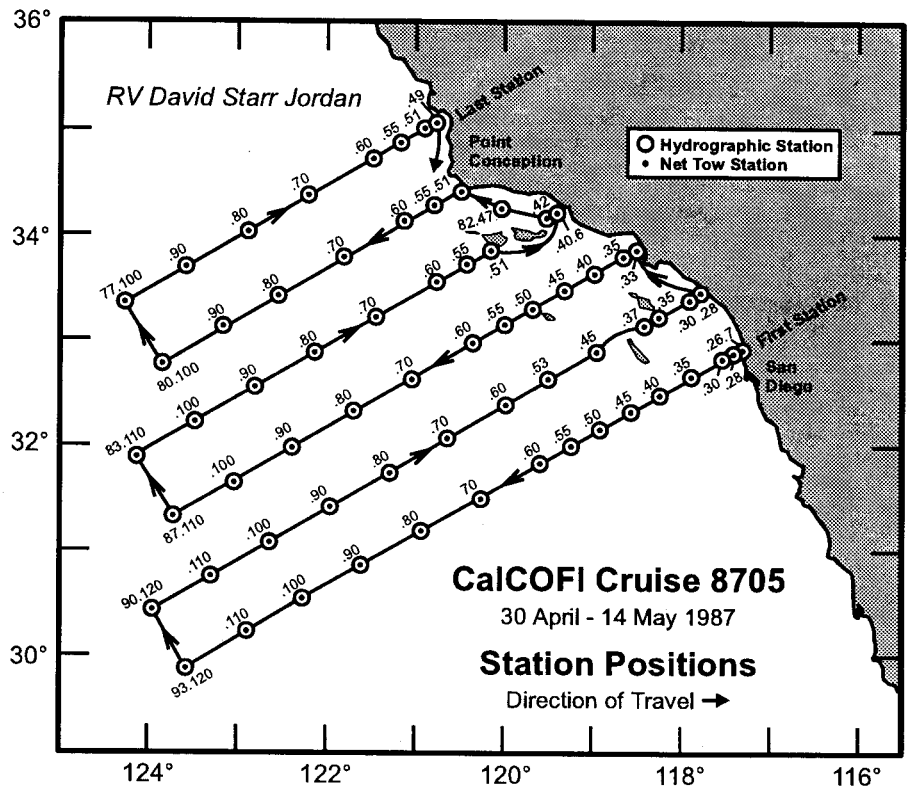
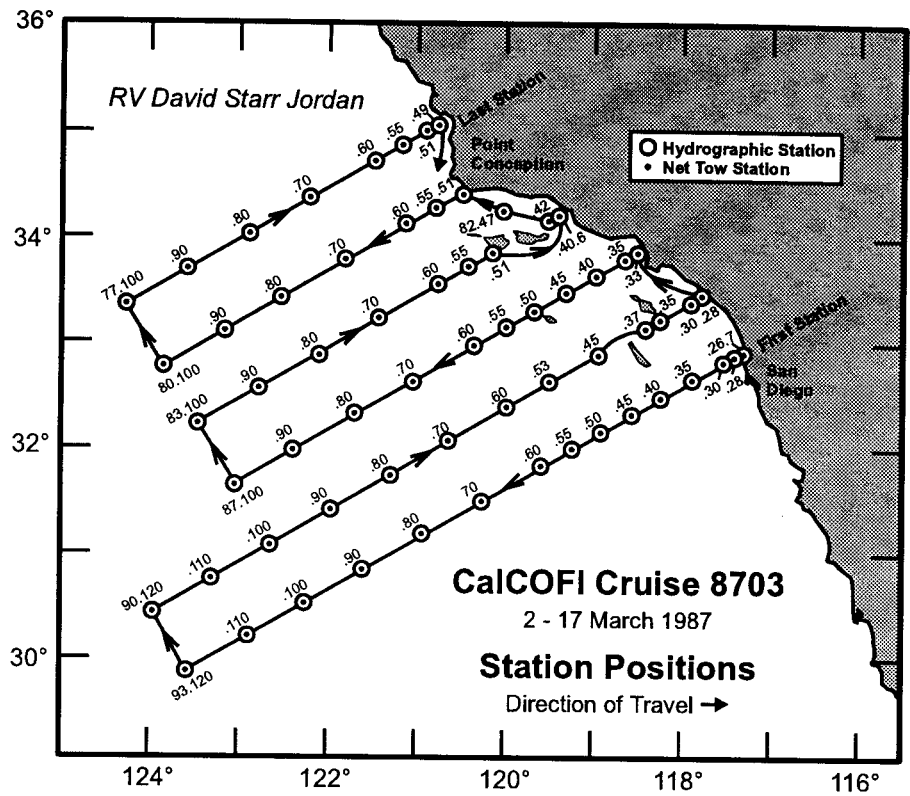


Figure 1. Stations and cruise tracks for CalCOFI cruises 8703 (above) and 8705 (below). Circles indicate hydrographic stations; dots indicate net tow stations.

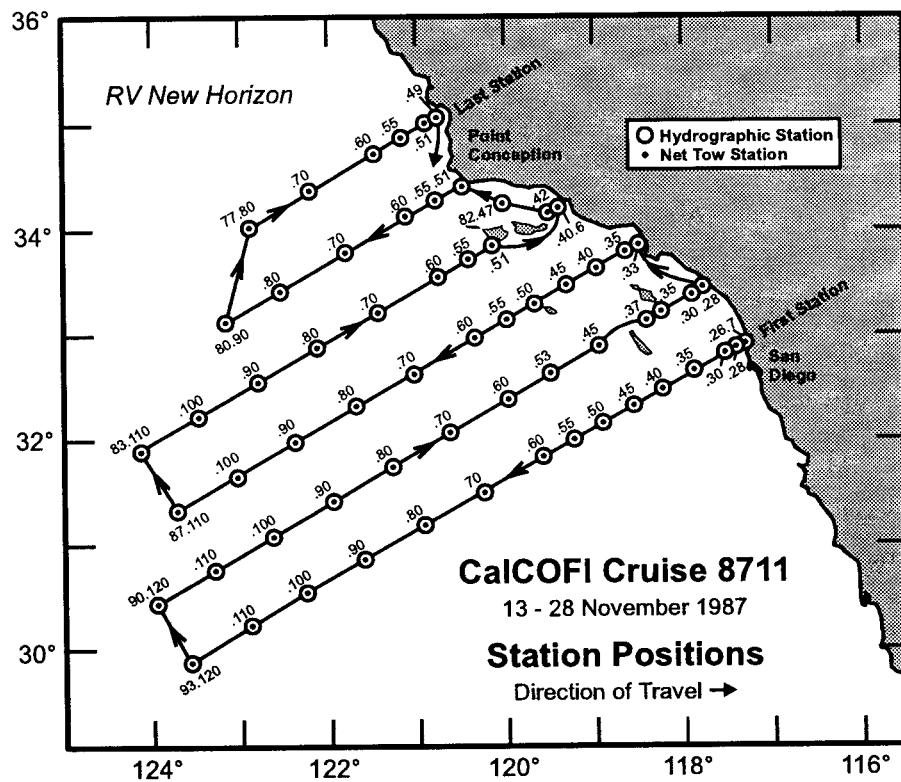
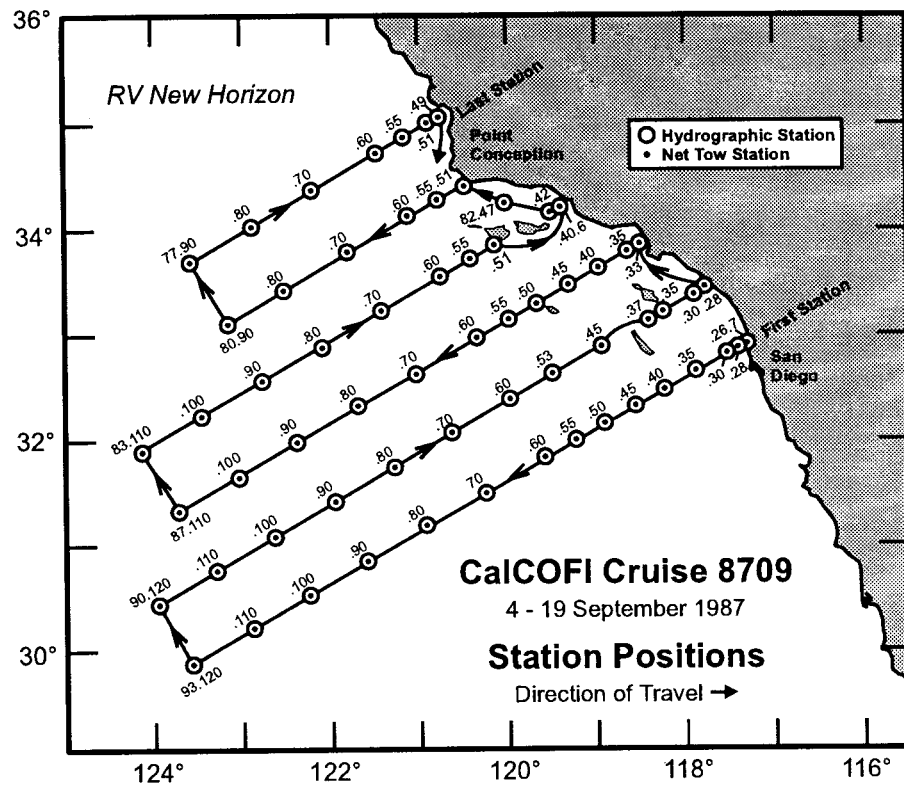


Figure 2. Stations and cruise tracks for CalCOFI cruises 8709 (above) and 8711 (below). Symbols as in figure 1.

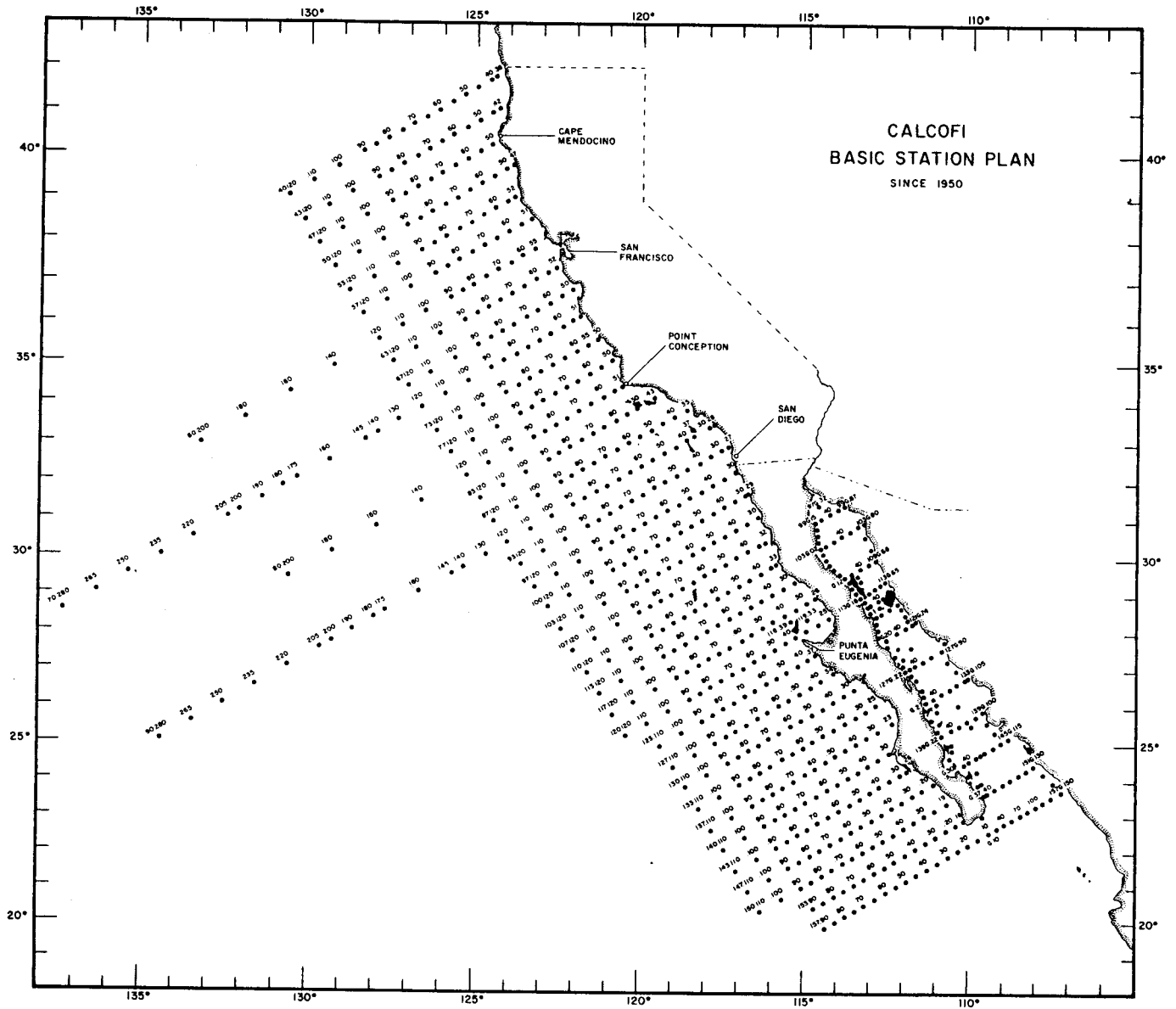


Figure 3. Basic station plan for CalCOFI Cruises.

TABLE 1. Station and plankton tow data for CalCOFI cruises in 1987. Counts for fish eggs and larvae are not adjusted for standard haul factor or percent of sample sorted. Plankton volume given as milliliters per 1000 cubic meters of water strained.

CalCOFI Cruise 8703													
Line	Station	Latitude (N) deg. min.	Longitude (W) deg. min.	Ship Code	Tow Date yr. mo. day	Time (PST)	Tow Depth (m)	Volume Water Strained	Standard Haul Factor	Plankton Volume	Percent Sorted	Total Larvae	Total Eggs
76.7	49.0	35 05.3	120 46.6	JD	87 03 16	0943	71	150	4.74	167	100.0	22	142
76.7	51.0	35 01.3	120 55.1	JD	87 03 16	1255	207	472	4.39	87	46.3	57	10
76.7	55.0	34 53.3	121 11.9	JD	87 03 16	1550	207	432	4.81	148	50.0	150	31
76.7	60.0	34 43.3	121 32.9	JD	87 03 15	1105	218	440	4.97	82	55.6	60	85
76.7	70.0	34 23.3	122 14.8	JD	87 03 15	0400	207	445	4.66	184	52.4	101	34
76.7	80.0	34 03.3	122 56.5	JD	87 03 14	2235	208	408	5.09	91	51.4	21	20
76.7	90.0	33 43.3	123 38.2	JD	87 03 14	1710	213	435	4.89	39	100.0	12	93
76.7	100.0	33 23.3	124 19.4	JD	87 03 14	1205	212	435	4.87	39	100.0	42	12
80.0	51.0	34 27.0	120 31.4	JD	87 03 12	2353	77	162	4.79	111	100.0	78	133
80.0	55.0	34 19.0	120 48.1	JD	87 03 13	0343	213	410	5.19	122	48.0	234	1140
80.0	60.0	34 09.0	121 09.1	JD	87 03 13	0737	206	433	4.75	81	48.6	87	95
80.0	70.0	33 49.1	121 50.6	JD	87 03 13	1338	213	448	4.75	67	50.0	187	116
80.0	80.0	33 29.0	122 32.0	JD	87 03 13	1904	210	435	4.82	92	47.5	38	6
80.0	90.0	33 09.0	123 13.3	JD	87 03 14	0109	213	412	5.17	58	100.0	22	27
80.0	100.0	32 49.0	123 54.2	JD	87 03 14	0629	211	415	5.08	113	49.0	13	3
81.8	46.9	34 16.9	120 02.0	JD	87 03 12	1937	208	402	5.18	239	52.1	290	305
83.3	42.0	34 10.7	119 30.5	JD	87 03 12	1247	125	247	5.04	219	51.9	249	114
83.3	51.0	33 52.7	120 08.0	JD	87 03 12	0703	83	168	4.94	417	48.6	1379	141
83.3	55.0	33 44.8	120 24.6	JD	87 03 12	0343	209	423	4.94	114	45.8	572	305
83.3	60.0	33 34.7	120 45.3	JD	87 03 11	2328	205	418	4.92	103	51.2	432	76
83.3	70.0	33 14.7	121 26.6	JD	87 03 11	1809	206	424	4.86	101	44.0	104	64
83.3	80.0	32 54.7	122 07.7	JD	87 03 11	1250	208	451	4.62	55	100.0	63	746
83.3	90.0	32 34.7	122 48.7	JD	87 03 11	0719	207	439	4.72	48	100.0	138	24
83.3	100.0	32 14.6	123 29.5	JD	87 03 11	0212	212	456	4.64	94	48.8	187	7
86.7	33.0	33 53.3	118 29.5	JD	87 03 08	1720	49	100	4.87	150	100.0	534	171
86.7	35.0	33 49.4	118 37.7	JD	87 03 08	2030	211	393	5.35	92	50.0	756	83
86.7	39.5	33 40.4	118 56.4	JD	87 03 09	0408	206	392	5.24	99	51.3	1646	1021
86.7	45.0	33 29.4	119 19.1	JD	87 03 09	0925	214	398	5.36	98	53.8	1660	906
86.7	50.0	33 19.4	119 39.8	JD	87 03 09	1505	71	133	5.34	143	47.4	283	66

Table 1. (cont.)

CalCOFI Cruise 8703

Line	Station	Latitude (N) deg. min.	Longitude (W) deg. min.	Ship Code	Tow Date yr. mo. day	Time (PST)	Tow Depth (m)	Volume Water Strained	Standard Haul Factor	Plankton Volume	Percent Sorted	Total Larvae	Total Eggs
86.7	55.0	33 09.5	120 00.5	JD	87 03 09	1834	211	409	5.16	108	47.7	629	79
86.7	60.0	32 59.4	120 21.0	JD	87 03 09	2257	215	390	5.50	100	53.8	339	47
86.7	70.0	32 39.4	121 02.0	JD	87 03 10	0408	205	426	4.83	108	47.8	320	273
86.7	80.0	32 19.4	121 43.0	JD	87 03 10	0927	210	410	5.12	80	51.5	6	62
86.7	90.0	31 59.4	122 23.7	JD	87 03 10	1528	207	443	4.67	45	100.0	58	43
86.7	100.0	31 39.4	123 04.1	JD	87 03 10	2023	210	428	4.90	93	52.5	66	32
90.0	28.0	33 29.1	117 46.1	JD	87 03 08	0735	56	113	4.98	88	100.0	200	5
90.0	35.0	33 15.1	118 15.0	JD	87 03 07	2343	213	394	5.40	76	50.0	563	251
90.0	37.0	33 11.2	118 23.3	JD	87 03 07	2026	218	397	5.51	83	54.5	730	108
90.0	45.0	32 55.1	118 56.1	JD	87 03 07	1527	212	413	5.14	107	50.0	2169	656
90.0	53.0	32 39.2	119 28.9	JD	87 03 07	0905	206	427	4.82	73	51.6	1933	123
90.0	60.0	32 25.1	119 57.7	JD	87 03 07	0425	206	424	4.86	120	51.0	510	386
90.0	70.0	32 05.2	120 38.3	JD	87 03 06	2216	211	433	4.86	48	100.0	66	91
90.0	80.0	31 45.1	121 18.9	JD	87 03 06	1646	214	439	4.88	27	100.0	24	56
90.0	90.0	31 25.1	121 59.5	JD	87 03 06	1135	209	439	4.75	57	100.0	39	84
90.0	100.0	31 05.1	122 39.8	JD	87 03 06	0455	211	422	5.00	195	56.1	4	26
90.0	110.0	30 45.1	123 19.9	JD	87 03 05	2251	217	424	5.12	35	100.0	50	25
90.0	120.0	30 25.1	123 59.9	JD	87 03 05	1633	212	437	4.84	16	100.0	40	8
93.3	26.7	32 57.3	117 18.3	JD	87 03 02	1739	206	415	4.96	63	53.8	119	85
93.3	28.0	32 54.8	117 23.7	JD	87 03 02	1945	209	393	5.32	69	59.3	426	93
93.3	30.0	32 50.8	117 31.9	JD	87 03 02	2237	216	383	5.66	60	52.2	85	55
93.3	35.0	32 40.8	117 52.6	JD	87 03 03	0430	207	401	5.15	60	41.7	108	297
93.3	40.0	32 31.0	118 12.7	JD	87 03 03	0820	214	385	5.56	49	100.0	667	487
93.3	45.0	32 20.9	118 33.3	JD	87 03 03	1240	201	414	4.84	101	52.4	932	772
93.3	50.0	32 10.8	118 53.6	JD	87 03 03	1635	211	379	5.56	82	51.6	106	172
93.3	55.0	32 00.5	119 14.0	JD	87 03 03	1956	215	382	5.61	110	47.6	574	91
93.3	60.0	31 50.8	119 34.2	JD	87 03 03	2344	217	408	5.31	54	100.0	92	97
93.3	70.0	31 30.6	120 14.8	JD	87 03 04	0502	214	421	5.09	50	100.0	37	33
93.3	80.0	31 10.8	120 55.1	JD	87 03 04	1029	216	430	5.02	46	100.0	53	39
93.3	90.0	30 50.8	121 35.4	JD	87 03 04	1628	210	446	4.70	56	100.0	38	63
93.3	100.0	30 30.7	122 15.4	JD	87 03 04	2223	210	440	4.78	50	100.0	50	55
93.3	110.0	30 10.8	122 55.4	JD	87 03 05	0409	209	439	4.74	34	100.0	66	20
93.3	120.0	29 50.8	123 35.2	JD	87 03 05	0955	216	442	4.89	14	100.0	32	20

Table 1. (cont.)

CalCOFI Cruise 8705

Line	Station	Latitude (N) deg. min.	Longitude (W) deg. min.	Ship Code	Tow Date yr. mo. day	Time (PST)	Tow Depth (m)	Volume Water Strained	Standard Haul Factor	Plankton Volume	Percent Sorted	Total Larvae	Total Eggs
76.7	49.0	35 05.3	120 46.6	JD	87 05 13	1620	55	116	4.73	173	100.0	3	13
76.7	51.0	35 01.3	120 55.1	JD	87 05 13	1410	210	419	5.00	86	50.0	15	3
76.7	55.0	34 53.3	121 11.9	JD	87 05 13	1102	209	388	5.40	325	45.2	4	1
76.7	60.0	34 43.3	121 32.9	JD	87 05 13	0723	206	393	5.24	153	50.0	12	141
76.7	70.0	34 23.3	122 14.8	JD	87 05 13	0217	208	418	4.97	69	100.0	148	956
76.7	80.0	34 03.3	122 56.5	JD	87 05 12	2117	213	413	5.16	48	100.0	39	18
76.7	90.0	33 43.3	123 38.0	JD	87 05 12	1610	203	437	4.63	25	100.0	64	22
76.7	100.0	33 23.3	124 19.4	JD	87 05 12	1000	211	418	5.05	17	100.0	65	192
80.0	51.0	34 27.0	120 31.4	JD	87 05 10	2329	57	121	4.74	438	54.7	119	71
80.0	55.0	34 19.0	120 48.1	JD	87 05 11	0223	212	418	5.08	89	48.6	90	9
80.0	60.0	34 09.0	121 09.0	JD	87 05 11	0554	209	387	5.40	155	56.7	14	19
80.0	70.0	33 49.0	121 50.6	JD	87 05 11	1141	212	376	5.64	202	48.7	25	50
80.0	80.0	33 29.0	122 32.0	JD	87 05 11	1720	208	426	4.87	45	100.0	135	195
80.0	90.0	33 09.0	123 13.2	JD	87 05 11	2348	210	405	5.18	35	100.0	73	90
80.0	100.0	32 49.0	123 54.5	JD	87 05 12	0446	203	420	4.83	57	100.0	368	157
81.8	46.9	34 17.0	120 02.0	JD	87 05 10	1945	208	420	4.97	462	50.0	79	6
83.3	40.6	34 13.4	119 24.7	JD	87 05 10	1430	28	60	4.73	84	100.0	137	1193
83.3	42.0	34 10.7	119 30.5	JD	87 05 10	1210	178	337	5.27	362	53.3	65	400
83.3	51.0	33 52.7	120 08.0	JD	87 05 10	0446	92	187	4.94	85	100.0	28	101
83.3	55.0	33 44.7	120 24.5	JD	87 05 10	0141	214	408	5.26	96	48.7	74	351
83.3	60.0	33 34.7	120 45.3	JD	87 05 09	2145	214	368	5.81	206	57.9	109	10
83.3	70.0	33 14.7	121 26.6	JD	87 05 09	1635	209	399	5.24	60	50.0	18	0
83.3	80.0	32 54.7	122 07.7	JD	87 05 09	1026	214	402	5.33	139	50.0	32	23
83.3	90.0	32 34.7	122 48.7	JD	87 05 09	0508	204	410	4.99	95	100.0	111	431
83.3	100.0	32 14.7	123 29.5	JD	87 05 08	2338	214	396	5.40	63	100.0	40	68
83.3	110.0	31 54.7	124 10.2	JD	87 05 08	1828	205	407	5.04	47	100.0	17	83
86.7	33.0	33 53.4	118 29.4	JD	87 05 06	1002	47	102	4.63	334	52.9	24	44
86.7	35.0	33 49.4	118 37.7	JD	87 05 06	1305	215	411	5.24	144	50.8	46	0
86.7	39.5	33 40.4	118 56.4	JD	87 05 06	1855	209	399	5.23	100	50.0	72	43
86.7	45.0	33 29.4	119 19.1	JD	87 05 06	2355	210	413	5.09	131	51.9	163	198
86.7	50.0	33 19.4	119 39.8	JD	87 05 07	0314	55	117	4.73	231	48.1	186	19
86.7	55.0	33 09.4	120 00.4	JD	87 05 07	0708	205	394	5.21	137	51.9	44	5
86.7	60.0	32 59.4	120 21.0	JD	87 05 07	1029	210	377	5.57	210	50.6	61	7

Table 1. (cont.)

CalCOFI Cruise 8705

Line	Station	Latitude (N) deg. min.	Longitude (W) deg. min.	Ship Code	Tow Date yr. mo. day	Time (PST)	Tow Depth (m)	Volume Water Strained	Standard Haul Factor	Plankton Volume	Percent Sorted	Total Larvae	Total Eggs
86.7	70.0	32 39.4	121 02.0	JD	87 05 07	1600	209	404	5.17	111	51.1	42	7
86.7	80.0	32 19.4	121 42.9	JD	87 05 07	2117	214	394	5.43	58	52.2	21	25
86.7	90.0	31 59.4	122 23.6	JD	87 05 08	0210	209	405	5.15	49	100.0	50	104
86.7	100.0	31 39.4	123 04.2	JD	87 05 08	0738	205	408	5.03	37	100.0	28	289
86.7	110.0	31 19.4	123 44.3	JD	87 05 08	1310	212	396	5.34	23	100.0	88	386
90.0	28.0	33 29.1	117 46.1	JD	87 05 06	0508	61	120	5.11	342	51.2	22	1
90.0	30.0	33 25.1	117 54.4	JD	87 05 06	0327	209	398	5.25	95	52.6	606	17
90.0	35.0	33 15.1	118 15.0	JD	87 05 05	2146	209	414	5.05	225	54.8	280	39
90.0	37.0	33 11.2	118 23.2	JD	87 05 05	1830	207	422	4.90	95	53.0	89	34
90.0	45.0	32 55.1	118 56.1	JD	87 05 05	1255	211	416	5.07	65	66.7	25	707
90.0	53.0	32 39.1	119 29.0	JD	87 05 05	0551	203	439	4.63	27	100.0	43	9
90.0	60.0	32 25.1	119 57.6	JD	87 05 05	0118	207	443	4.68	59	53.8	23	3
90.0	70.0	32 05.1	120 38.3	JD	87 05 04	1943	210	413	5.09	36	100.0	37	4
90.0	80.0	31 45.0	121 19.0	JD	87 05 04	1315	211	407	5.20	91	100.0	32	18
90.0	90.0	31 25.1	121 59.5	JD	87 05 04	0651	209	431	4.84	16	100.0	26	48
90.0	100.0	31 05.1	122 39.7	JD	87 05 04	0048	211	441	4.79	29	100.0	28	58
90.0	110.0	30 45.1	123 20.0	JD	87 05 03	1827	225	446	5.04	9	100.0	37	162
90.0	120.0	30 25.0	123 59.9	JD	87 05 03	1220	212	440	4.81	5	100.0	32	36
93.3	26.7	32 57.3	117 18.4	JD	87 04 30	1715	54	120	4.50	266	50.0	81	5
93.3	28.0	32 54.8	117 23.7	JD	87 04 30	2015	213	414	5.15	80	51.5	180	21
93.3	30.0	32 50.8	117 31.9	JD	87 04 30	2255	212	414	5.13	70	51.7	103	9
93.3	35.0	32 40.8	117 52.5	JD	87 05 01	0209	207	412	5.02	61	48.0	111	263
93.3	40.0	32 30.7	118 12.8	JD	87 05 01	0517	206	410	5.02	41	100.0	90	399
93.3	45.0	32 20.8	118 33.3	JD	87 05 01	0916	211	418	5.05	134	48.0	23	480
93.3	50.0	32 10.8	118 53.5	JD	87 05 01	1307	197	458	4.30	57	50.0	34	144
93.3	55.0	32 00.7	119 14.0	JD	87 05 01	1636	205	453	4.54	68	51.6	28	43
93.3	60.0	31 50.9	119 34.3	JD	87 05 01	2005	218	432	5.03	65	50.0	37	1
93.3	70.0	31 30.8	120 14.8	JD	87 05 02	0128	216	434	4.98	21	100.0	18	5
93.3	80.0	31 10.7	120 55.3	JD	87 05 02	0650	209	431	4.86	33	100.0	42	52
93.3	90.0	30 50.8	121 35.4	JD	87 05 02	1245	207	447	4.63	16	100.0	5	14
93.3	100.0	30 30.8	122 15.5	JD	87 05 02	1830	211	439	4.79	20	100.0	24	682
93.3	110.0	30 10.9	122 55.3	JD	87 05 03	0006	210	430	4.89	28	100.0	28	190
93.3	120.0	29 50.7	123 35.3	JD	87 05 03	0525	211	437	4.83	7	100.0	117	553

Table 1. (cont.)

CalCOFI Cruise 8709

Line	Station	Latitude (N) deg. min.	Longitude (W) deg. min.	Ship Code	Tow Date yr. mo. day	Time (PST)	Tow Depth (m)	Volume Water Strained	Standard Haul Factor	Plankton Volume	Percent Sorted	Total Larvae	Total Eggs
76.7	49.0	35 05.3	120 46.5	NH	87 09 18	1145	56	125	4.47	305	47.4	1	87
76.7	51.0	35 01.3	120 55.2	NH	87 09 18	0845	210	434	4.84	249	51.9	2	1
76.7	55.0	34 53.3	121 11.8	NH	87 09 18	0532	211	420	5.03	121	51.0	3	0
76.7	60.0	34 43.4	121 33.1	NH	87 09 18	0118	215	483	4.46	178	52.3	1	0
76.7	70.0	34 23.4	122 15.0	NH	87 09 17	1910	224	441	5.07	304	47.8	2	2
76.7	80.0	34 03.5	122 56.3	NH	87 09 17	1325	212	439	4.83	141	48.4	6	0
76.7	90.0	33 43.3	123 38.0	NH	87 09 17	0705	215	433	4.97	46	100.0	12	5
80.0	51.0	34 27.1	120 31.5	NH	87 09 15	2340	65	147	4.41	795	46.2	23	1
80.0	55.0	34 18.9	120 48.2	NH	87 09 16	0242	237	469	5.06	104	49.0	16	10
80.0	60.0	34 08.9	121 09.0	NH	87 09 16	0636	224	465	4.83	49	100.0	5	15
80.0	70.0	33 49.1	121 50.6	NH	87 09 16	1320	224	456	4.93	53	100.0	6	1
80.0	80.0	33 29.0	122 32.1	NH	87 09 16	1910	230	462	4.97	43	100.0	50	13
80.0	90.0	33 09.0	123 13.4	NH	87 09 17	0050	224	481	4.65	46	100.0	28	22
81.8	46.9	34 17.0	120 02.1	NH	87 09 15	2000	204	426	4.79	185	49.4	13	15
83.3	40.6	34 13.6	119 24.6	NH	87 09 15	1505	21	48	4.41	104	100.0	47	155
83.3	42.0	34 10.8	119 30.4	NH	87 09 15	1325	113	232	4.87	34	100.0	25	109
83.3	51.0	33 52.7	120 07.9	NH	87 09 15	0706	82	189	4.33	64	100.0	46	37
83.3	55.0	33 44.7	120 24.5	NH	87 09 15	0405	225	437	5.15	53	100.0	85	4
83.3	60.0	33 34.7	120 45.1	NH	87 09 15	0012	213	460	4.63	50	100.0	27	4
83.3	70.0	33 14.8	121 26.5	NH	87 09 14	1830	222	427	5.20	101	53.5	6	2
83.3	80.0	32 54.6	122 07.7	NH	87 09 14	1235	211	449	4.70	40	100.0	13	7
83.3	90.0	32 34.7	122 48.7	NH	87 09 14	0627	212	431	4.92	128	100.0	11	13
83.3	100.0	32 14.8	123 29.5	NH	87 09 14	0047	213	423	5.03	80	100.0	100	35
83.3	110.0	31 54.8	124 10.3	NH	87 09 13	1900	218	427	5.12	23	100.0	189	52
86.7	33.0	33 53.5	118 29.5	NH	87 09 11	0245	41	82	4.99	282	100.0	406	638
86.7	35.0	33 49.5	118 37.7	NH	87 09 11	0623	211	384	5.49	292	51.8	27	13
86.7	39.5	33 40.4	118 56.6	NH	87 09 11	1300	208	405	5.13	106	48.8	21	0
86.7	45.0	33 29.4	119 19.2	NH	87 09 11	1900	213	430	4.95	105	51.1	26	8
86.7	50.0	33 19.3	119 40.0	NH	87 09 11	2235	54	159	3.36	138	100.0	14	63
86.7	55.0	33 09.1	120 00.6	NH	87 09 12	0212	213	450	4.73	98	52.3	11	2
86.7	60.0	32 59.4	120 21.1	NH	87 09 12	0634	216	406	5.33	165	53.7	18	3
86.7	70.0	32 39.5	121 02.1	NH	87 09 12	1245	219	448	4.90	105	48.9	8	20

Table 1. (cont.)

CalCOFI Cruise 8709

Line	Station	Latitude (N) deg. min.	Longitude (W) deg. min.	Ship Code	Tow Date yr. mo. day	Time (PST)	Tow Depth (m)	Volume Water Strained	Standard Haul Factor	Plankton Volume	Percent Sorted	Total Larvae	Total Eggs
86.7	80.0	32 19.4	121 43.0	NH	87 09 12	1900	214	415	5.16	48	100.0	20	7
86.7	90.0	31 59.4	122 23.8	NH	87 09 13	0045	211	446	4.74	92	100.0	19	10
86.7	100.0	31 39.3	123 04.4	NH	87 09 13	0636	211	424	4.98	57	100.0	70	51
86.7	110.0	31 19.4	123 44.7	NH	87 09 13	1255	208	451	4.62	27	100.0	298	37
90.0	28.0	33 29.2	117 46.2	NH	87 09 10	2015	49	113	4.34	220	100.0	70	29
90.0	30.0	33 25.2	117 54.3	NH	87 09 10	1400	217	429	5.07	35	100.0	11	2
90.0	35.0	33 15.1	118 14.9	NH	87 09 10	0650	209	420	4.98	43	100.0	14	66
90.0	37.0	33 11.2	118 23.2	NH	87 09 10	0335	212	428	4.95	72	48.4	67	63
90.0	45.0	32 55.2	118 56.1	NH	87 09 09	2210	204	473	4.31	192	51.6	36	46
90.0	53.0	32 38.9	119 28.4	NH	87 09 09	1705	211	421	5.02	78	48.5	6	5
90.0	60.0	32 25.2	119 57.5	NH	87 09 09	1155	222	402	5.53	112	51.1	3	11
90.0	70.0	32 05.0	120 38.2	NH	87 09 09	0535	215	428	5.02	28	100.0	5	10
90.0	80.0	31 45.2	121 19.0	NH	87 09 08	2335	216	425	5.07	226	100.0	182	5
90.0	90.0	31 25.1	121 59.3	NH	87 09 08	1745	215	426	5.04	124	100.0	1	2
90.0	100.0	31 05.0	122 39.8	NH	87 09 08	1035	212	425	4.99	33	100.0	113	72
90.0	110.0	30 45.0	123 19.9	NH	87 09 08	0437	214	421	5.09	24	100.0	195	220
90.0	120.0	30 25.1	123 59.9	NH	87 09 07	2200	204	427	4.78	54	100.0	266	38
93.3	26.7	32 57.6	117 18.5	NH	87 09 04	1533	44	133	3.28	256	47.1	8	51
93.3	28.0	32 54.7	117 23.7	NH	87 09 04	1820	208	412	5.04	75	48.4	49	5
93.3	30.0	32 50.8	117 31.9	NH	87 09 04	2120	219	403	5.42	79	46.9	12	2
93.3	35.0	32 40.7	117 52.6	NH	87 09 05	0154	217	417	5.21	62	46.0	14	10
93.3	40.0	32 30.8	118 12.9	NH	87 09 05	0635	212	407	5.20	133	48.1	6	3
93.3	45.0	32 20.7	118 33.3	NH	87 09 05	1148	222	395	5.61	58	100.0	6	5
93.3	50.0	32 10.8	118 53.6	NH	87 09 05	1600	217	409	5.30	54	100.0	2	0
93.3	55.0	32 00.7	119 14.0	NH	87 09 05	2140	208	444	4.70	52	100.0	13	10
93.3	60.0	31 50.9	119 34.6	NH	87 09 06	0258	221	416	5.32	161	50.7	2	1
93.3	70.0	31 30.8	120 15.0	NH	87 09 06	0859	215	425	5.07	132	46.4	2	3
93.3	80.0	31 10.8	120 55.3	NH	87 09 06	1600	212	433	4.89	48	100.0	87	30
93.3	90.0	30 50.7	121 35.5	NH	87 09 06	2150	208	418	4.99	117	100.0	128	47
93.3	100.0	30 30.7	122 15.5	NH	87 09 07	0340	215	424	5.09	35	100.0	169	208
93.3	110.0	30 11.0	122 55.4	NH	87 09 07	0935	207	426	4.86	19	100.0	214	149
93.3	120.0	29 50.8	123 35.4	NH	87 09 07	1630	211	433	4.87	23	100.0	115	25

Table 1. (cont.)

CalCOFI Cruise 8711

Line	Station	Latitude (N) deg. min.	Longitude (W) deg. min.	Ship Code	Tow Date yr. mo. day	Time (PST)	Tow Depth (m)	Volume Water Strained	Standard Haul Factor	Plankton Volume	Percent Sorted	Total Larvae	Total Eggs
76.7	49.0	35 05.3	120 46.7	NH	87 11 27	1229	58	123	4.67	8	100.0	0	83
76.7	51.0	35 01.4	120 55.1	NH	87 11 27	0955	192	377	5.10	24	100.0	7	33
76.7	55.0	34 53.2	121 12.1	NH	87 11 27	0655	210	421	5.00	24	100.0	17	19
76.7	60.0	34 43.3	121 32.9	NH	87 11 27	0310	208	436	4.77	92	100.0	8	33
76.7	70.0	34 23.3	122 14.8	NH	87 11 26	2110	212	442	4.79	25	100.0	13	11
76.7	80.0	34 03.2	122 56.5	NH	87 11 26	1527	209	454	4.60	26	100.0	7	11
80.0	51.0	34 27.0	120 31.4	NH	87 11 24	1930	73	164	4.46	6	100.0	9	24
80.0	55.0	34 19.0	120 48.4	NH	87 11 24	2223	189	514	3.67	58	100.0	8	85
80.0	60.0	34 09.0	121 09.0	NH	87 11 25	0750	216	440	4.90	23	100.0	9	69
80.0	70.0	33 48.8	121 50.5	NH	87 11 25	1608	210	435	4.82	25	100.0	7	13
80.0	80.0	33 29.1	122 32.2	NH	87 11 25	2351	207	461	4.49	17	100.0	9	4
80.0	90.0	33 09.0	123 13.3	NH	87 11 26	0650	210	438	4.80	27	100.0	2	14
81.8	46.9	34 17.0	120 02.0	NH	87 11 24	1550	204	442	4.61	43	100.0	10	40
83.3	40.6	34 13.6	119 24.7	NH	87 11 24	1030	27	70	3.93	14	100.0	36	54
83.3	42.0	34 10.8	119 30.6	NH	87 11 24	0850	98	188	5.21	5	100.0	2	45
83.3	51.0	33 52.7	120 08.0	NH	87 11 24	0350	55	127	4.35	8	100.0	5	54
83.3	55.0	33 44.8	120 24.6	NH	87 11 24	0030	206	468	4.41	9	100.0	14	122
83.3	60.0	33 34.7	120 45.2	NH	87 11 23	1959	205	464	4.41	13	100.0	10	27
83.3	70.0	33 14.0	121 28.8	NH	87 11 23	1305	213	466	4.57	2	100.0	3	6
83.3	80.0	32 54.6	122 07.7	NH	87 11 23	0625	217	442	4.91	5	100.0	8	1
83.3	90.0	32 34.8	122 48.6	NH	87 11 22	2339	205	437	4.68	7	100.0	9	7
83.3	100.0	32 14.9	123 29.3	NH	87 11 22	1754	215	479	4.49	2	100.0	8	5
83.3	110.0	31 54.9	124 10.2	NH	87 11 22	1145	214	458	4.68	11	100.0	6	4
86.7	33.0	33 53.4	118 29.4	NH	87 11 19	1921	56	111	5.07	1086	100.0	3	4
86.7	35.0	33 45.6	118 37.6	NH	87 11 19	2154	214	394	5.43	25	100.0	3	2
86.7	39.5	33 40.4	118 56.4	NH	87 11 20	0310	210	408	5.13	22	100.0	39	18
86.7	45.0	33 29.5	119 19.1	NH	87 11 20	0830	211	382	5.52	21	100.0	6	29
86.7	50.0	33 19.6	119 38.1	NH	87 11 20	1215	56	119	4.69	8	100.0	25	17
86.7	55.0	33 09.3	120 00.5	NH	87 11 20	1800	214	410	5.22	85	100.0	3	0
86.7	60.0	32 59.4	120 21.3	NH	87 11 20	2152	199	468	4.24	26	100.0	2	3
86.7	70.0	32 39.3	121 02.0	NH	87 11 21	0345	225	472	4.76	21	100.0	4	1
86.7	80.0	32 19.4	121 42.7	NH	87 11 21	0930	211	414	5.11	5	100.0	7	8

Table 1. (cont.)

CalCOFI Cruise 8711

Line	Station	Latitude (N) deg. min.	Longitude (W) deg. min.	Ship Code	Tow Date yr. mo. day	Time (PST)	Tow Depth (m)	Volume Water Strained	Standard Haul Factor	Plankton Volume	Percent Sorted	Total Larvae	Total Eggs
86.7	90.0	31 58.3	122 23.6	NH	87 11 21	1605	212	487	4.35	6	100.0	4	1
86.7	110.0	31 19.4	123 44.6	NH	87 11 22	0445	210	471	4.46	19	100.0	3	13
90.0	28.0	33 29.2	117 46.1	NH	87 11 19	1332	57	116	4.89	9	100.0	27	38
90.0	30.0	33 25.1	117 54.2	NH	87 11 19	1115	209	408	5.11	5	100.0	1	10
90.0	35.0	33 15.1	118 15.1	NH	87 11 19	0450	209	394	5.30	38	100.0	12	30
90.0	37.0	33 11.1	118 23.2	NH	87 11 19	0157	203	406	4.99	17	100.0	4	30
90.0	45.0	32 55.1	118 56.1	NH	87 11 18	2036	204	422	4.84	19	100.0	13	5
90.0	53.0	32 39.1	119 28.9	NH	87 11 18	1425	193	440	4.38	9	100.0	20	25
90.0	60.0	32 24.9	119 57.7	NH	87 11 18	0915	210	397	5.28	101	100.0	3	1
90.0	70.0	32 05.1	120 38.3	NH	87 11 18	0335	204	413	4.93	34	100.0	8	0
90.0	80.0	31 45.1	121 18.8	NH	87 11 17	2157	207	423	4.89	28	100.0	20	10
90.0	90.0	31 25.2	121 59.3	NH	87 11 17	1621	213	409	5.20	20	100.0	15	5
90.0	100.0	31 05.2	122 39.5	NH	87 11 17	1010	206	425	4.84	5	100.0	32	4
90.0	110.0	30 45.1	123 20.0	NH	87 11 17	0430	210	428	4.89	12	100.0	35	6
90.0	120.0	30 25.7	124 00.0	NH	87 11 16	2243	206	429	4.81	14	100.0	34	5
93.3	26.7	32 57.4	117 18.3	NH	87 11 13	1255	56	132	4.27	8	100.0	3	6
93.3	28.0	32 54.8	117 23.7	NH	87 11 13	1555	212	435	4.88	55	100.0	0	3
93.3	30.0	32 50.8	117 31.8	NH	87 11 13	1850	213	431	4.93	21	100.0	5	2
93.3	35.0	32 40.7	117 52.4	NH	87 11 13	2255	220	447	4.92	27	100.0	2	11
93.3	40.0	32 30.7	118 12.7	NH	87 11 14	0335	217	443	4.90	5	100.0	4	2
93.3	45.0	32 20.7	118 33.4	NH	87 11 14	0825	218	448	4.87	11	100.0	12	2
93.3	50.0	32 12.3	118 53.3	NH	87 11 14	1301	200	478	4.18	29	100.0	0	11
93.3	55.0	32 00.7	119 14.1	NH	87 11 14	1754	208	443	4.70	27	100.0	1	5
93.3	60.0	31 51.1	119 34.6	NH	87 11 14	2240	199	465	4.28	43	100.0	2	2
93.3	70.0	31 31.5	120 14.6	NH	87 11 15	0610	207	465	4.45	13	100.0	4	6
93.3	80.0	31 10.8	120 55.2	NH	87 11 15	1454	193	529	3.65	26	100.0	45	3
93.3	90.0	30 51.0	121 35.6	NH	87 11 15	2156	217	433	5.01	5	100.0	79	11
93.3	100.0	30 31.0	122 15.4	NH	87 11 16	0415	211	440	4.80	5	100.0	24	13
93.3	110.0	30 11.0	122 55.4	NH	87 11 16	1030	208	426	4.89	2	100.0	34	11
93.3	120.0	29 50.9	123 35.3	NH	87 11 16	1705	211	433	4.87	7	100.0	19	3

TABLE 2. Pooled occurrences of fish larvae taken on CalCOFI cruises in 1987

Rank	Taxon	Occurrences
1	<i>Engraulis mordax</i>	122
2	<i>Protomyctophum crockeri</i>	99
3	<i>Sebastes</i> spp.	96
4	<i>Stenobranchius leucopsarus</i>	93
5	<i>Diogenichthys atlanticus</i>	87
6	<i>Bathylagus ochotensis</i>	80
7	<i>Leuroglossus stilbius</i>	78
8	<i>Merluccius productus</i>	68
9	<i>Lampanyctus ritteri</i>	67
10	<i>Cyclothone signata</i>	64
11	<i>Vinciguerria lucetia</i>	63
12	<i>Bathylagus wesethi</i>	59
13	<i>Symbolophorus californiensis</i>	55
14	<i>Citharichthys stigmaeus</i>	54
15	<i>Triphoturus mexicanus</i>	52
16	<i>Ceratoscopelus townsendi</i>	50
17	<i>Citharichthys sordidus</i>	38
18	<i>Cyclothone</i> spp.	35
18	<i>Trachurus symmetricus</i>	35
20	<i>Argyropelecus sladeni</i>	32
21	Disintegrated fish larvae	28
22	<i>Idiacanthus antrostomus</i>	26
23	<i>Melamphaes lugubris</i>	25
23	<i>Lestidiops ringens</i>	25
25	Myctophidae	24
25	<i>Scomber japonicus</i>	24
27	<i>Lampanyctus</i> spp.	23
28	<i>Sebastes jordani</i>	22
29	<i>Tetragonurus cuvieri</i>	21
30	<i>Vinciguerria poweriae</i>	20
31	<i>Chauliodus macouni</i>	18
31	<i>Danaphos oculatus</i>	18
33	<i>Diaphus</i> spp.	16
34	<i>Stomias atriventer</i>	15
34	<i>Sardinops sagax</i>	15
34	<i>Argentina sialis</i>	15
37	<i>Sternoptyx</i> spp.	14
37	<i>Oxyjulis californica</i>	14
39	<i>Scopelosaurus harryi</i>	13
39	<i>Icichthys lockingtoni</i>	13
39	<i>Microstoma</i> spp.	13
39	<i>Argyropelecus affinis</i>	13
39	<i>Melamphaes</i> spp.	13
39	<i>Scopelogadus bispinosus</i>	13
45	<i>Chromis punctipinnis</i>	12
45	<i>Nansenia candida</i>	12
47	<i>Citharichthys</i> spp.	11
47	<i>Bathylagus pacificus</i>	11
47	<i>Aristostomias scintillans</i>	11
47	<i>Myctophum nitidulum</i>	11

TABLE 2. (cont.)

Rank	Taxon	Occurrences
51	<i>Genyonemus lineatus</i>	10
51	<i>Coryphopterus nicholsii</i>	10
53	<i>Sebastes paucispinis</i>	9
53	<i>Notolychnus valdiviae</i>	9
55	<i>Microstomus pacificus</i>	8
55	<i>Argyrolepecus lychnus</i>	8
55	<i>Argyrolepecus hemigymnus</i>	8
55	<i>Tarletonbeania crenularis</i>	8
59	<i>Parophrys vetulus</i>	7
59	<i>Zaniolepis latipinnis</i>	7
59	Unidentified fish larvae	7
59	<i>Benthalbella dentata</i>	7
59	<i>Lampanyctus regalis</i>	7
59	<i>Scopelarchus analis</i>	7
59	<i>Chiasmodon niger</i>	7
59	<i>Bathylagus milleri</i>	7
67	<i>Tactostoma macropus</i>	6
67	<i>Lyopsetta exilis</i>	6
67	<i>Bathophilus flemingi</i>	6
67	<i>Pleuronichthys verticalis</i>	6
71	<i>Hygophum reinhardtii</i>	5
71	<i>Notoscopelus resplendens</i>	5
71	<i>Lythrypnus dalli</i>	5
71	<i>Sebastolobus altivelis</i>	5
75	<i>Rathbunella</i> spp.	4
75	<i>Howella</i> spp.	4
75	<i>Argyrolepecus</i> spp.	4
75	<i>Gigantactis</i> spp.	4
75	<i>Paralichthys californicus</i>	4
75	<i>Artedius creaseri</i>	4
75	<i>Cataetyx rubrirostris</i>	4
82	<i>Hygophum atratum</i>	3
82	<i>Arctozenus risso</i>	3
82	<i>Rosenblattichthys volucris</i>	3
82	<i>Poromitra crassiceps</i>	3
82	<i>Cyclothone acclinidens</i>	3
82	<i>Trachipterus altivelis</i>	3
82	<i>Sebastes diploproa</i>	3
82	<i>Icelinus quadriseriatus</i>	3
82	<i>Melamphaes simus</i>	3
82	<i>Lepidogobius lepidus</i>	3
82	<i>Xystreurus liolepis</i>	3
82	Oneirodidae	3
82	<i>Symphurus atricaudus</i>	3
95	<i>Hippoglossina stomata</i>	2
95	<i>Scorpaenichthys marmoratus</i>	2
95	<i>Synodus lucioceps</i>	2
95	<i>Anoplarchus purpureus</i>	2
95	Stichaeidae	2
95	<i>Brama japonica</i>	2
95	<i>Hypsoblennius jenkinsi</i>	2

TABLE 2. (cont.)

Rank	Taxon	Occurrences
95	Sternoptychidae	2
95	<i>Icelinus</i> spp.	2
95	<i>Ophiodon elongatus</i>	2
95	<i>Lampanyctus</i> "no pectorals"	2
95	<i>Sebastolobus alascanus</i>	2
95	<i>Sebastolobus</i> spp.	2
95	<i>Poromitra</i> spp.	2
95	<i>Cololabis saira</i>	2
95	<i>Oneirodes</i> spp.	2
95	<i>Electrona risso</i>	2
112	Melanostomiinae	1
112	<i>Bathylagus</i> spp.	1
112	<i>Ichthyococcus irregularis</i>	1
112	<i>Cyclothone pseudopallida</i>	1
112	<i>Plectobranhus evides</i>	1
112	<i>Orthonopias triacis</i>	1
112	<i>Bathyagonus pentacanthus</i>	1
112	<i>Paralabrax</i> spp.	1
112	<i>Caristius maderensis</i>	1
112	<i>Seriphus politus</i>	1
112	<i>Ophidion scrippsae</i>	1
112	<i>Ronquilus jordani</i>	1
112	<i>Scopeloberyx robustus</i>	1
112	<i>Cryptotrema corallinum</i>	1
112	<i>Neoclinus stephensae</i>	1
112	<i>Hypsoblennius gentilis</i>	1
112	<i>Icosteus aenigmaticus</i>	1
112	<i>Glyptocephalus zachirus</i>	1
112	<i>Lepidopsetta bilineata</i>	1
112	Zoarcoidei	1
112	<i>Loweina rara</i>	1
112	<i>Scopelarchus guentheri</i>	1
112	<i>Lestidiops</i> spp.	1
112	<i>Magnisudis atlantica</i>	1
112	<i>Lampadena urophaos</i>	1
112	<i>Lampanyctus</i> "niger"	1
112	<i>Lampanyctus steinbecki</i>	1
112	<i>Artedius lateralis</i>	1
112	<i>Hygophum</i> spp.	1
112	<i>Sebastes aurora</i>	1
112	<i>Leptocephalus giganteus</i>	1
112	<i>Brosmophycis marginata</i>	1
112	<i>Atherinopsis californiensis</i>	1
112	<i>Melamphaes parvus</i>	1
112	<i>Poromitra megalops</i>	1
112	Scopelarchidae	1
112	<i>Gonichthys tenuiculus</i>	1
	Total	2144

TABLE 3. Pooled counts of fish larvae taken on CalCOFI cruises in 1987. Counts are adjusted for percent of sample sorted and standard haul factor (see text).

Rank	Taxon	Count
1	<i>Engraulis mordax</i>	189811
2	<i>Merluccius productus</i>	8813
3	<i>Vinciguerria lucetia</i>	7258
4	<i>Stenobranchius leucopsarus</i>	7223
5	<i>Sebastes</i> spp.	6663
6	<i>Leuroglossus stilbius</i>	6367
7	<i>Bathylagus ochotensis</i>	3007
8	<i>Scomber japonicus</i>	2430
9	<i>Sardinops sagax</i>	1925
10	<i>Trachurus symmetricus</i>	1851
11	<i>Vinciguerria poweriae</i>	1634
12	<i>Ceratoscopelus townsendi</i>	1467
13	<i>Diogenichthys atlanticus</i>	1427
14	<i>Cyclothone signata</i>	1356
15	<i>Sebastes jordani</i>	1230
16	<i>Protomyctophum crockeri</i>	1134
17	<i>Bathylagus wesethi</i>	1116
18	<i>Triphoturus mexicanus</i>	994
19	<i>Lampanyctus ritteri</i>	973
20	<i>Symbolophorus californiensis</i>	758
21	<i>Citharichthys sordidus</i>	621
22	<i>Genyonemus lineatus</i>	615
23	<i>Citharichthys stigmaeus</i>	563
24	<i>Cyclothone</i> spp.	375
25	<i>Idiacanthus antrostomus</i>	278
26	<i>Chromis punctipinnis</i>	277
27	<i>Argentina sialis</i>	245
28	<i>Lampanyctus</i> spp.	242
29	<i>Argyropelecus sladeni</i>	228
30	<i>Tetragonurus cuvieri</i>	204
31	<i>Lestidiops ringens</i>	201
32	Disintegrated fish larvae	200
33	Myctophidae	185
34	<i>Oxyjulis californica</i>	180
35	<i>Melamphaes lugubris</i>	179
36	<i>Icichthys lockingtoni</i>	177
37	<i>Diaphus</i> spp.	163
38	<i>Citharichthys</i> spp.	143
38	<i>Bathylagus pacificus</i>	143
40	<i>Stomias atriventer</i>	140
41	<i>Sebastes paucispinis</i>	137
42	<i>Chauliodus macouni</i>	132
43	<i>Danaphos oculatus</i>	130
44	<i>Parophrys vetulus</i>	122
44	<i>Nansenia candida</i>	122
46	<i>Scopelosaurus harryi</i>	120
47	<i>Lepidogobius lepidus</i>	111
48	<i>Melamphaes</i> spp.	110

TABLE 3. (cont.)

Rank	Taxon	Count
49	<i>Scopelogadus bispinosus</i>	104
50	<i>Lyopsetta exilis</i>	99
51	<i>Coryphopterus nicholsii</i>	96
52	<i>Microstoma</i> spp.	95
53	<i>Microstomus pacificus</i>	92
54	<i>Argyrolepecus affinis</i>	88
55	<i>Tarletonbeania cremularis</i>	86
56	<i>Sternoptyx</i> spp.	83
57	<i>Rathbunella</i> spp.	82
58	<i>Aristostomias scintillans</i>	81
59	<i>Myctophum nitidulum</i>	74
60	<i>Lampanyctus regalis</i>	66
61	<i>Sebastolobus altivelis</i>	63
62	<i>Bathylagus milleri</i>	61
63	Unidentified fish larvae	59
63	<i>Notolychnus valdiviae</i>	59
65	<i>Pleuronichthys verticalis</i>	56
66	<i>Argyrolepecus hemigymnus</i>	55
66	<i>Argyrolepecus lychnus</i>	55
68	<i>Artemius creaseri</i>	54
69	<i>Brommophycis marginata</i>	52
70	<i>Icelinus quadriseriatus</i>	50
71	<i>Zaniolepis latipinnis</i>	48
72	<i>Chiasmodon niger</i>	45
73	<i>Cataetyx rubrirostris</i>	41
73	<i>Tactostoma macropus</i>	41
75	<i>Scopelarchus analis</i>	39
76	<i>Benthalbella dentata</i>	36
76	<i>Bathophilus flemingi</i>	36
78	<i>Notoscopelus resplendens</i>	30
79	<i>Poromitra</i> spp.	29
80	<i>Synodus lucioceps</i>	28
81	<i>Paralichthys californicus</i>	26
82	<i>Xystreurus liolepis</i>	25
82	<i>Lythrypnus dalli</i>	25
82	<i>Argyrolepecus</i> spp.	25
85	<i>Hygophum reinhardtii</i>	24
86	<i>Sebastes diploproa</i>	22
86	<i>Plectobranchnus evides</i>	22
88	<i>Poromitra crassiceps</i>	21
88	<i>Anoplarchus purpureus</i>	21
90	<i>Gigantactis</i> spp.	20
90	<i>Trachipterus altivelis</i>	20
90	<i>Ophiodon elongatus</i>	20
90	<i>Howella</i> spp.	20
94	<i>Symphurus atricaudus</i>	19
94	<i>Sebastolobus alascanus</i>	19
96	<i>Hypsoblennius jenkinsi</i>	18
97	<i>Hygophum atratum</i>	16
98	<i>Sebastolobus</i> spp.	15
98	<i>Brama japonica</i>	15

TABLE 3. (cont.)

Rank	Taxon	Count
98	Oneirodidae	15
98	<i>Cyclothone acclinidens</i>	15
98	<i>Arctozenus risso</i>	15
98	<i>Hippoglossina stomata</i>	15
98	<i>Melamphaes simus</i>	15
98	Sternoptychidae	15
106	<i>Icelinus</i> spp.	14
106	<i>Rosenblattichthys volucris</i>	14
106	<i>Scorpaenichthys marmoratus</i>	14
109	<i>Gonichthys tenuiculus</i>	11
109	<i>Neoclinus stephensae</i>	11
109	<i>Bathylagus</i> spp.	11
109	<i>Icosteus aenigmaticus</i>	11
113	<i>Melamphaes parvus</i>	10
113	<i>Sebastes aurora</i>	10
113	<i>Orthonopias triacis</i>	10
113	Scopelarchidae	10
113	<i>Electrona risso</i>	10
113	<i>Lampanyctus</i> "no pectorals"	10
113	<i>Cololabis saira</i>	10
113	<i>Lepidopsetta bilineata</i>	10
113	<i>Artedius lateralis</i>	10
122	<i>Cryptotrema corallinum</i>	9
122	<i>Glyptocephalus zachirus</i>	9
122	<i>Paralabrax</i> spp.	9
122	<i>Oneirodes</i> spp.	9
126	Stichaeidae	8
127	<i>Loweina rara</i>	5
127	<i>Hygophum</i> spp.	5
127	<i>Lampadena urophaos</i>	5
127	<i>Ophidion scrippsae</i>	5
127	<i>Ronquilus jordani</i>	5
127	<i>Hypsoblennius gentilis</i>	5
127	Zoarcoidei	5
127	<i>Lampanyctus steinbecki</i>	5
127	<i>Lampanyctus</i> "niger"	5
127	<i>Caristius maderensis</i>	5
127	<i>Bathyagonus pentacanthus</i>	5
127	<i>Scopeloberyx robustus</i>	5
127	<i>Lestidiops</i> spp.	5
127	<i>Magnisudis atlantica</i>	5
127	Melanostomiinae	5
127	<i>Cyclothone pseudopallida</i>	5
127	<i>Scopelarchus guentheri</i>	5
127	<i>Ichthyococcus irregularis</i>	5
127	<i>Seriphus politus</i>	5
127	<i>Leptocephalus giganteus</i>	5
127	<i>Poromitra megalops</i>	5
127	<i>Atherinopsis californiensis</i>	5
	Total	256576

TABLE 4. Number of fish larvae taken at stations occupied on CalCOFI cruises in 1987. Counts are adjusted for percent of sample sorted and standard haul factor (see text). Unoccupied stations are indicated by a dash.

		<i>Leptocephalus giganteus</i>											
Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
80.0	90.0	-	0.0	-	0.0	-	-	-	4.7	-	0.0	-	
		<i>Sardinops sagax</i>											
Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
80.0	51.0	-	23.9	-	0.0	-	-	-	0.0	-	0.0	-	
80.0	100.0	-	0.0	-	4.8	-	-	-	-	-	-	-	
81.8	46.9	-	0.0	-	9.9	-	-	-	19.4	-	0.0	-	
83.3	40.6	-	0.0	-	127.7	-	-	-	61.7	-	0.0	-	
83.3	42.0	-	136.0	-	118.6	-	-	-	53.6	-	0.0	-	
83.3	51.0	-	1250.2	-	0.0	-	-	-	0.0	-	0.0	-	
83.3	90.0	-	0.0	-	10.0	-	-	-	0.0	-	0.0	-	
86.7	33.0	-	68.2	-	0.0	-	-	-	25.0	-	5.1	-	
90.0	37.0	-	10.1	-	0.0	-	-	-	0.0	-	0.0	-	
		<i>Engraulis mordax</i>											
Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
76.7	49.0	-	0.0	-	9.5	-	-	-	0.0	-	0.0	-	
76.7	51.0	-	218.1	-	30.0	-	-	-	0.0	-	5.1	-	
76.7	55.0	-	586.8	-	23.9	-	-	-	0.0	-	0.0	-	
76.7	60.0	-	169.8	-	10.5	-	-	-	0.0	-	0.0	-	
76.7	70.0	-	0.0	-	0.0	-	-	-	0.0	-	9.6	-	
80.0	51.0	-	268.2	-	979.2	-	-	-	219.5	-	8.9	-	
80.0	55.0	-	1989.5	-	679.4	-	-	-	92.9	-	7.3	-	
80.0	60.0	-	361.6	-	123.8	-	-	-	0.0	-	0.0	-	
80.0	70.0	-	0.0	-	34.7	-	-	-	0.0	-	0.0	-	
80.0	80.0	-	30.4	-	0.0	-	-	-	0.0	-	0.0	-	
80.0	90.0	-	0.0	-	5.2	-	-	-	0.0	-	0.0	-	
81.8	46.9	-	1879.1	-	497.0	-	-	-	19.4	-	0.0	-	

TABLE 4. (cont.)

Station	<i>Engraulis mordax</i> (cont.)											
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
83.3 40.6	-	-	0.0	-	501.4	-	-	-	35.3	-	117.9	-
83.3 42.0	-	-	1417.8	-	464.7	-	-	-	0.0	-	0.0	-
83.3 51.0	-	-	11801.1	-	49.4	-	-	-	155.9	-	8.7	-
83.3 55.0	-	-	5662.7	-	172.8	-	-	-	360.5	-	4.4	-
83.3 60.0	-	-	2786.7	-	250.9	-	-	-	0.0	-	0.0	-
83.3 70.0	-	-	596.5	-	0.0	-	-	-	9.7	-	0.0	-
83.3 80.0	-	-	152.5	-	0.0	-	-	-	0.0	-	0.0	-
83.3 100.0	-	-	0.0	-	5.4	-	-	-	0.0	-	0.0	-
86.7 33.0	-	-	2030.8	-	148.8	-	-	-	1956.1	-	0.0	-
86.7 35.0	-	-	7286.7	-	319.8	-	-	-	265.0	-	0.0	-
86.7 39.5	-	-	15658.7	-	554.4	-	-	-	220.8	-	153.9	-
86.7 45.0	-	-	15302.9	-	1176.9	-	-	-	222.8	-	0.0	-
86.7 50.0	-	-	2658.7	-	1219.4	-	-	-	26.9	-	37.5	-
86.7 55.0	-	-	5603.5	-	220.8	-	-	-	0.0	-	0.0	-
86.7 60.0	-	-	2617.1	-	242.2	-	-	-	19.9	-	0.0	-
86.7 70.0	-	-	2697.9	-	10.1	-	-	-	20.0	-	0.0	-
86.7 80.0	-	-	19.9	-	0.0	-	-	-	0.0	-	0.0	-
86.7 100.0	-	-	9.3	-	0.0	-	-	-	0.0	-	-	-
90.0 28.0	-	-	891.4	-	199.6	-	-	-	182.3	-	4.9	-
90.0 30.0	-	-	0.0	-	5908.7	-	-	-	10.1	-	0.0	-
90.0 35.0	-	-	5216.4	-	2423.6	-	-	-	44.8	-	31.8	-
90.0 37.0	-	-	7046.7	-	693.4	-	-	-	675.0	-	5.0	-
90.0 45.0	-	-	21320.7	-	129.2	-	-	-	284.0	-	0.0	-
90.0 53.0	-	-	17112.9	-	4.6	-	-	-	10.4	-	0.0	-
90.0 60.0	-	-	4469.3	-	34.8	-	-	-	0.0	-	0.0	-
90.0 70.0	-	-	4.9	-	45.8	-	-	-	0.0	-	0.0	-
90.0 80.0	-	-	4.9	-	10.4	-	-	-	0.0	-	0.0	-
93.3 26.7	-	-	894.3	657.0	-	-	-	-	55.7	-	0.0	-
93.3 28.0	-	-	3516.8	1630.0	-	-	-	-	447.8	-	0.0	-
93.3 30.0	-	-	520.5	903.0	-	-	-	-	57.8	-	0.0	-

TABLE 4. (cont.)

		<i>Engraulis mordax</i> (cont.)											
Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
93.3 35.0	-	-	1086.8	-	941.3	-	-	-	79.3	-	4.9	-	
93.3 40.0	-	-	3508.4	-	336.3	-	-	-	10.8	-	0.0	-	
93.3 45.0	-	-	8257.6	-	31.6	-	-	-	0.0	-	0.0	-	
93.3 50.0	-	-	247.8	-	25.8	-	-	-	0.0	-	0.0	-	
93.3 55.0	-	-	5975.4	-	26.4	-	-	-	0.0	-	0.0	-	
93.3 60.0	-	-	217.7	-	90.5	-	-	-	0.0	-	0.0	-	
93.3 70.0	-	-	0.0	-	5.0	-	-	-	0.0	-	0.0	-	
		<i>Argentina stialis</i>											
Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
76.7 51.0	-	-	0.0	-	10.0	-	-	-	0.0	-	0.0	-	
80.0 60.0	-	-	0.0	-	0.0	-	-	-	0.0	-	4.9	-	
80.0 100.0	-	-	0.0	-	4.8	-	-	-	-	-	-	-	
81.8 46.9	-	-	0.0	-	9.9	-	-	-	0.0	-	4.6	-	
83.3 42.0	-	-	87.4	-	0.0	-	-	-	0.0	-	0.0	-	
83.3 51.0	-	-	20.3	-	0.0	-	-	-	0.0	-	0.0	-	
83.3 80.0	-	-	0.0	-	0.0	-	-	-	0.0	-	4.9	-	
86.7 33.0	-	-	0.0	-	8.8	-	-	-	0.0	-	0.0	-	
86.7 39.5	-	-	10.2	-	0.0	-	-	-	0.0	-	0.0	-	
90.0 28.0	-	-	5.0	-	0.0	-	-	-	0.0	-	0.0	-	
90.0 35.0	-	-	10.8	-	0.0	-	-	-	0.0	-	0.0	-	
93.3 28.0	-	-	0.0	10.0	-	-	-	-	0.0	-	0.0	-	
93.3 30.0	-	-	43.4	9.9	-	-	-	-	0.0	-	0.0	-	
		<i>Microstoma</i> spp.											
Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
76.7 80.0	-	-	0.0	-	10.3	-	-	-	0.0	-	0.0	-	
76.7 100.0	-	-	9.7	-	0.0	-	-	-	-	-	-	-	
80.0 90.0	-	-	5.2	-	0.0	-	-	-	0.0	-	0.0	-	
83.3 80.0	-	-	0.0	-	10.7	-	-	-	0.0	-	0.0	-	
86.7 60.0	-	-	0.0	-	0.0	-	-	-	0.0	-	4.2	-	
86.7 100.0	-	-	0.0	-	5.0	-	-	-	5.0	-	-	-	

TABLE 4. (cont.)

<i>Microstoma</i> spp. (cont.)												
Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
90.0 80.0	-	-	0.0	-	0.0	-	-	-	5.1	-	0.0	-
90.0 90.0	-	-	9.5	-	4.8	-	-	-	0.0	-	0.0	-
93.3 70.0	-	-	10.2	-	0.0	-	-	-	0.0	-	0.0	-
93.3 80.0	-	-	0.0	-	9.7	-	-	-	0.0	-	0.0	-
93.3 100.0	-	-	0.0	-	4.8	-	-	-	0.0	-	0.0	-
<i>Nansenia candida</i>												
Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
76.7 70.0	-	-	0.0	-	9.9	-	-	-	0.0	-	0.0	-
76.7 90.0	-	-	4.9	-	0.0	-	-	-	0.0	-	-	-
76.7 100.0	-	-	0.0	-	15.1	-	-	-	-	-	-	-
80.0 80.0	-	-	0.0	-	4.9	-	-	-	0.0	-	0.0	-
80.0 90.0	-	-	0.0	-	10.4	-	-	-	0.0	-	0.0	-
80.0 100.0	-	-	0.0	-	4.8	-	-	-	-	-	-	-
83.3 80.0	-	-	4.6	-	0.0	-	-	-	0.0	-	0.0	-
83.3 90.0	-	-	4.7	-	0.0	-	-	-	0.0	-	0.0	-
83.3 110.0	-	-	-	-	10.1	-	-	-	0.0	-	0.0	-
86.7 80.0	-	-	0.0	-	41.6	-	-	-	0.0	-	0.0	-
86.7 110.0	-	-	-	-	5.3	-	-	-	0.0	-	0.0	-
93.3 80.0	-	-	0.0	-	4.9	-	-	-	0.0	-	0.0	-
<i>Bathylagus</i> spp.												
Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
83.3 55.0	-	-	0.0	-	10.8	-	-	-	0.0	-	0.0	-
<i>Bathylagus milleri</i>												
Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
76.7 70.0	-	-	0.0	-	0.0	-	-	-	0.0	-	4.8	-
83.3 60.0	-	-	0.0	-	10.0	-	-	-	0.0	-	0.0	-
83.3 80.0	-	-	0.0	-	10.7	-	-	-	0.0	-	0.0	-
83.3 90.0	-	-	0.0	-	20.0	-	-	-	0.0	-	0.0	-
86.7 80.0	-	-	0.0	-	0.0	-	-	-	0.0	-	5.1	-
86.7 90.0	-	-	0.0	-	5.2	-	-	-	0.0	-	0.0	-

TABLE 4. (cont.)

Station	Jan.	Feb.	Mar.	Apr.	<i>Bathylagus milleri</i> (cont.)			Aug.	Sep.	Oct.	Nov.	Dec.
					May	June	July					
86.7	110.0	-	-	-	5.3	-	-	-	0.0	-	0.0	-
Station	Jan.	Feb.	Mar.	Apr.	<i>Bathylagus ochotensis</i>			Aug.	Sep.	Oct.	Nov.	Dec.
					May	June	July					
76.7	49.0	-	28.4	-	0.0	-	-	-	0.0	-	0.0	-
76.7	51.0	-	56.9	-	0.0	-	-	-	0.0	-	0.0	-
76.7	55.0	-	67.3	-	0.0	-	-	-	0.0	-	5.0	-
76.7	60.0	-	89.4	-	21.0	-	-	-	0.0	-	0.0	-
76.7	70.0	-	480.2	-	74.5	-	-	-	0.0	-	0.0	-
76.7	80.0	-	19.8	-	5.2	-	-	-	0.0	-	0.0	-
76.7	90.0	-	0.0	-	41.7	-	-	-	0.0	-	-	-
76.7	100.0	-	0.0	-	5.0	-	-	-	-	-	-	-
80.0	55.0	-	0.0	-	52.3	-	-	-	0.0	-	0.0	-
80.0	60.0	-	107.5	-	0.0	-	-	-	0.0	-	0.0	-
80.0	70.0	-	85.5	-	0.0	-	-	-	0.0	-	0.0	-
80.0	80.0	-	50.7	-	14.6	-	-	-	0.0	-	0.0	-
80.0	90.0	-	0.0	-	10.4	-	-	-	0.0	-	0.0	-
80.0	100.0	-	10.4	-	72.5	-	-	-	-	-	-	-
81.8	46.9	-	19.9	-	0.0	-	-	-	0.0	-	0.0	-
83.3	42.0	-	0.0	-	9.9	-	-	-	0.0	-	0.0	-
83.3	51.0	-	0.0	-	4.9	-	-	-	0.0	-	0.0	-
83.3	55.0	-	32.4	-	118.8	-	-	-	0.0	-	0.0	-
83.3	60.0	-	19.2	-	30.1	-	-	-	0.0	-	0.0	-
83.3	70.0	-	11.0	-	83.8	-	-	-	0.0	-	0.0	-
83.3	80.0	-	50.8	-	74.6	-	-	-	0.0	-	0.0	-
83.3	90.0	-	14.2	-	59.9	-	-	-	0.0	-	0.0	-
83.3	100.0	-	133.1	-	5.4	-	-	-	0.0	-	0.0	-
86.7	35.0	-	10.7	-	0.0	-	-	-	0.0	-	0.0	-
86.7	39.5	-	0.0	-	10.5	-	-	-	0.0	-	0.0	-
86.7	45.0	-	10.0	-	19.6	-	-	-	0.0	-	0.0	-
86.7	55.0	-	10.8	-	10.0	-	-	-	0.0	-	0.0	-

TABLE 4. (cont.)

<i>Bathylagus ochotensis</i> (cont.)												
Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
86.7 60.0	-	-	30.7	-	77.1	-	-	-	0.0	-	0.0	-
86.7 70.0	-	-	20.2	-	50.6	-	-	-	0.0	-	0.0	-
86.7 90.0	-	-	18.7	-	0.0	-	-	-	0.0	-	0.0	-
86.7 100.0	-	-	9.3	-	10.1	-	-	-	0.0	-	-	-
86.7 110.0	-	-	-	-	5.3	-	-	-	0.0	-	0.0	-
90.0 28.0	-	-	5.0	-	0.0	-	-	-	0.0	-	0.0	-
90.0 30.0	-	-	0.0	-	20.0	-	-	-	0.0	-	0.0	-
90.0 35.0	-	-	54.0	-	0.0	-	-	-	0.0	-	0.0	-
90.0 37.0	-	-	10.1	-	0.0	-	-	-	0.0	-	0.0	-
90.0 45.0	-	-	30.8	-	0.0	-	-	-	0.0	-	0.0	-
90.0 53.0	-	-	9.3	-	46.3	-	-	-	0.0	-	0.0	-
90.0 60.0	-	-	19.1	-	43.5	-	-	-	0.0	-	0.0	-
90.0 70.0	-	-	4.9	-	0.0	-	-	-	0.0	-	0.0	-
90.0 80.0	-	-	4.9	-	31.2	-	-	-	0.0	-	0.0	-
90.0 90.0	-	-	4.8	-	0.0	-	-	-	0.0	-	0.0	-
93.3 26.7	-	-	0.0	9.0	-	-	-	-	0.0	-	0.0	-
93.3 28.0	-	-	98.7	40.0	-	-	-	-	0.0	-	0.0	-
93.3 30.0	-	-	10.8	0.0	-	-	-	-	0.0	-	0.0	-
93.3 35.0	-	-	24.7	-	20.9	-	-	-	0.0	-	0.0	-
93.3 40.0	-	-	5.6	-	10.0	-	-	-	10.8	-	0.0	-
93.3 45.0	-	-	9.2	-	21.0	-	-	-	0.0	-	0.0	-
93.3 50.0	-	-	64.7	-	25.8	-	-	-	0.0	-	0.0	-
93.3 55.0	-	-	35.4	-	35.2	-	-	-	0.0	-	0.0	-
93.3 60.0	-	-	10.6	-	20.1	-	-	-	0.0	-	0.0	-
93.3 80.0	-	-	0.0	-	9.7	-	-	-	0.0	-	0.0	-
<i>Bathylagus pacificus</i>												
Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
76.7 49.0	-	-	4.7	-	0.0	-	-	-	0.0	-	0.0	-
76.7 70.0	-	-	17.8	-	9.9	-	-	-	0.0	-	0.0	-
80.0 70.0	-	-	0.0	-	34.7	-	-	-	0.0	-	0.0	-

TABLE 4. (cont.)

		<i>Bathylagus pacificus</i> (cont.)											
Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
80.0	80.0	-	0.0	-	14.6	-	-	-	0.0	-	0.0	-	
83.3	70.0	-	11.0	-	0.0	-	-	-	0.0	-	0.0	-	
83.3	100.0	-	9.5	-	0.0	-	-	-	0.0	-	0.0	-	
86.7	60.0	-	10.2	-	0.0	-	-	-	0.0	-	0.0	-	
90.0	53.0	-	18.7	-	0.0	-	-	-	0.0	-	0.0	-	
90.0	70.0	-	4.9	-	0.0	-	-	-	0.0	-	0.0	-	
90.0	100.0	-	0.0	-	4.8	-	-	-	0.0	-	0.0	-	
		<i>Bathylagus wesethi</i>											
Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
76.7	55.0	-	0.0	-	11.9	-	-	-	0.0	-	5.0	-	
76.7	70.0	-	0.0	-	0.0	-	-	-	0.0	-	4.8	-	
76.7	80.0	-	9.9	-	5.2	-	-	-	0.0	-	0.0	-	
76.7	90.0	-	4.9	-	0.0	-	-	-	9.9	-	-	-	
76.7	100.0	-	0.0	-	25.3	-	-	-	-	-	-	-	
80.0	60.0	-	0.0	-	0.0	-	-	-	0.0	-	4.9	-	
80.0	70.0	-	0.0	-	0.0	-	-	-	0.0	-	4.8	-	
80.0	80.0	-	0.0	-	9.7	-	-	-	39.8	-	0.0	-	
80.0	90.0	-	0.0	-	25.9	-	-	-	4.7	-	0.0	-	
80.0	100.0	-	0.0	-	24.1	-	-	-	-	-	-	-	
83.3	60.0	-	0.0	-	0.0	-	-	-	13.9	-	0.0	-	
83.3	70.0	-	0.0	-	10.5	-	-	-	0.0	-	0.0	-	
83.3	80.0	-	4.6	-	0.0	-	-	-	9.4	-	0.0	-	
83.3	90.0	-	0.0	-	0.0	-	-	-	4.9	-	4.7	-	
83.3	100.0	-	0.0	-	0.0	-	-	-	30.2	-	0.0	-	
83.3	110.0	-	-	-	5.0	-	-	-	20.5	-	9.4	-	
86.7	60.0	-	0.0	-	0.0	-	-	-	9.9	-	0.0	-	
86.7	70.0	-	10.1	-	0.0	-	-	-	0.0	-	0.0	-	
86.7	80.0	-	0.0	-	10.4	-	-	-	5.2	-	5.1	-	
86.7	90.0	-	4.7	-	25.8	-	-	-	0.0	-	0.0	-	
86.7	100.0	-	0.0	-	0.0	-	-	-	114.5	-	-	-	

TABLE 4. (cont.)

Station	<i>Bathylagus wesethi</i> (cont.)											
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
86.7 110.0	-	-	-	-	10.7	-	-	-	46.2	-	0.0	-
90.0 60.0	-	-	0.0	-	8.7	-	-	-	0.0	-	0.0	-
90.0 70.0	-	-	4.9	-	10.2	-	-	-	0.0	-	0.0	-
90.0 80.0	-	-	4.9	-	0.0	-	-	-	40.6	-	4.9	-
90.0 90.0	-	-	0.0	-	4.8	-	-	-	0.0	-	0.0	-
90.0 100.0	-	-	0.0	-	4.8	-	-	-	174.7	-	4.8	-
90.0 110.0	-	-	0.0	-	0.0	-	-	-	5.1	-	0.0	-
90.0 120.0	-	-	0.0	-	0.0	-	-	-	9.6	-	0.0	-
93.3 26.7	-	-	0.0	0.0	-	-	-	-	0.0	-	4.3	-
93.3 45.0	-	-	9.2	-	0.0	-	-	-	0.0	-	0.0	-
93.3 55.0	-	-	0.0	-	8.8	-	-	-	0.0	-	0.0	-
93.3 60.0	-	-	0.0	-	60.4	-	-	-	0.0	-	0.0	-
93.3 80.0	-	-	0.0	-	19.4	-	-	-	19.6	-	3.6	-
93.3 90.0	-	-	0.0	-	0.0	-	-	-	79.8	-	0.0	-
93.3 100.0	-	-	0.0	-	19.2	-	-	-	35.6	-	0.0	-
93.3 110.0	-	-	0.0	-	9.8	-	-	-	19.4	-	0.0	-
<i>Leuroglossus stibius</i>												
Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
76.7 51.0	-	-	47.4	-	10.0	-	-	-	0.0	-	5.1	-
76.7 55.0	-	-	105.8	-	0.0	-	-	-	0.0	-	20.0	-
76.7 60.0	-	-	80.4	-	10.5	-	-	-	0.0	-	4.8	-
76.7 70.0	-	-	17.8	-	14.9	-	-	-	0.0	-	0.0	-
76.7 100.0	-	-	0.0	-	5.0	-	-	-	-	-	-	-
80.0 55.0	-	-	173.0	-	20.9	-	-	-	0.0	-	7.3	-
80.0 60.0	-	-	68.4	-	0.0	-	-	-	0.0	-	0.0	-
80.0 70.0	-	-	38.0	-	0.0	-	-	-	0.0	-	0.0	-
80.0 80.0	-	-	10.1	-	4.9	-	-	-	0.0	-	0.0	-
80.0 100.0	-	-	0.0	-	9.7	-	-	-	-	-	-	-
81.8 46.9	-	-	99.4	-	79.5	-	-	-	0.0	-	0.0	-
83.3 42.0	-	-	116.5	-	0.0	-	-	-	0.0	-	0.0	-

TABLE 4. (cont.)

Station	<i>Leuroglossus stibius</i> (cont.)											
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
83.3 55.0	-	-	107.9	-	54.0	-	-	-	0.0	-	0.0	-
83.3 60.0	-	-	586.2	-	40.1	-	-	-	0.0	-	0.0	-
83.3 70.0	-	-	66.3	-	31.4	-	-	-	0.0	-	0.0	-
83.3 80.0	-	-	9.2	-	53.3	-	-	-	0.0	-	0.0	-
83.3 90.0	-	-	0.0	-	5.0	-	-	-	0.0	-	0.0	-
83.3 100.0	-	-	9.5	-	5.4	-	-	-	0.0	-	0.0	-
86.7 35.0	-	-	128.4	-	30.9	-	-	-	0.0	-	0.0	-
86.7 39.5	-	-	572.0	-	20.9	-	-	-	0.0	-	0.0	-
86.7 45.0	-	-	577.8	-	137.3	-	-	-	0.0	-	0.0	-
86.7 50.0	-	-	0.0	-	0.0	-	-	-	3.4	-	0.0	-
86.7 55.0	-	-	173.1	-	30.1	-	-	-	0.0	-	0.0	-
86.7 60.0	-	-	102.2	-	11.0	-	-	-	0.0	-	0.0	-
86.7 70.0	-	-	20.2	-	20.2	-	-	-	0.0	-	0.0	-
90.0 28.0	-	-	5.0	-	0.0	-	-	-	0.0	-	0.0	-
90.0 30.0	-	-	0.0	-	39.9	-	-	-	0.0	-	0.0	-
90.0 35.0	-	-	410.4	-	9.2	-	-	-	0.0	-	0.0	-
90.0 37.0	-	-	111.2	-	18.5	-	-	-	0.0	-	0.0	-
90.0 45.0	-	-	431.8	-	30.4	-	-	-	0.0	-	0.0	-
90.0 53.0	-	-	149.5	-	4.6	-	-	-	0.0	-	0.0	-
90.0 60.0	-	-	28.6	-	0.0	-	-	-	0.0	-	0.0	-
90.0 70.0	-	-	0.0	-	5.1	-	-	-	0.0	-	0.0	-
90.0 80.0	-	-	0.0	-	10.4	-	-	-	0.0	-	0.0	-
93.3 26.7	-	-	83.0	0.0	-	-	-	-	0.0	-	0.0	-
93.3 28.0	-	-	80.7	50.0	-	-	-	-	0.0	-	0.0	-
93.3 30.0	-	-	151.8	79.4	-	-	-	-	0.0	-	0.0	-
93.3 35.0	-	-	24.7	-	73.2	-	-	-	0.0	-	0.0	-
93.3 40.0	-	-	33.4	-	35.1	-	-	-	0.0	-	0.0	-
93.3 45.0	-	-	83.1	-	73.6	-	-	-	0.0	-	0.0	-
93.3 50.0	-	-	409.5	-	8.6	-	-	-	0.0	-	0.0	-
93.3 55.0	-	-	141.4	-	8.8	-	-	-	0.0	-	0.0	-

TABLE 4. (cont.)

<i>Leuroglossus stilbius</i> (cont.)												
Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
93.3 60.0	-	-	10.6	-	10.1	-	-	-	0.0	-	0.0	-
93.3 70.0	-	-	0.0	-	10.0	-	-	-	0.0	-	0.0	-
93.3 80.0	-	-	0.0	-	4.9	-	-	-	0.0	-	0.0	-
<i>Cyclothone</i> spp.												
Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
76.7 70.0	-	-	0.0	-	5.0	-	-	-	0.0	-	4.8	-
76.7 80.0	-	-	0.0	-	0.0	-	-	-	10.0	-	0.0	-
80.0 70.0	-	-	9.5	-	0.0	-	-	-	0.0	-	4.8	-
80.0 90.0	-	-	0.0	-	0.0	-	-	-	0.0	-	4.8	-
83.3 80.0	-	-	0.0	-	0.0	-	-	-	14.1	-	0.0	-
83.3 90.0	-	-	0.0	-	0.0	-	-	-	0.0	-	9.4	-
83.3 100.0	-	-	9.5	-	0.0	-	-	-	15.1	-	0.0	-
83.3 110.0	-	-	-	-	0.0	-	-	-	30.7	-	0.0	-
86.7 60.0	-	-	10.2	-	0.0	-	-	-	0.0	-	0.0	-
86.7 110.0	-	-	-	-	5.3	-	-	-	9.2	-	0.0	-
90.0 80.0	-	-	0.0	-	0.0	-	-	-	5.1	-	0.0	-
90.0 90.0	-	-	0.0	-	19.4	-	-	-	0.0	-	0.0	-
90.0 100.0	-	-	0.0	-	0.0	-	-	-	20.0	-	0.0	-
90.0 110.0	-	-	0.0	-	0.0	-	-	-	10.2	-	4.9	-
90.0 120.0	-	-	9.7	-	0.0	-	-	-	9.6	-	4.8	-
93.3 45.0	-	-	0.0	-	0.0	-	-	-	0.0	-	24.4	-
93.3 60.0	-	-	5.3	-	0.0	-	-	-	0.0	-	0.0	-
93.3 70.0	-	-	0.0	-	14.9	-	-	-	0.0	-	0.0	-
93.3 80.0	-	-	0.0	-	0.0	-	-	-	0.0	-	14.6	-
93.3 90.0	-	-	4.7	-	0.0	-	-	-	0.0	-	25.0	-
93.3 100.0	-	-	4.8	-	0.0	-	-	-	10.2	-	0.0	-
93.3 110.0	-	-	19.0	-	0.0	-	-	-	0.0	-	4.9	-
93.3 120.0	-	-	0.0	-	4.8	-	-	-	9.7	-	4.9	-
<i>Cyclothone acclinidens</i>												
Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
90.0 90.0	-	-	0.0	-	0.0	-	-	-	0.0	-	5.2	-

TABLE 4. (cont.)

		<i>Cyclothone acclinidens</i> (cont.)											
Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
90.0 110.0	-	-	0.0	-	0.0	-	-	-	0.0	-	4.9	-	
90.0 120.0	-	-	0.0	-	0.0	-	-	-	4.8	-	0.0	-	
		<i>Cyclothone pseudopallida</i>											
Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
90.0 120.0	-	-	0.0	-	0.0	-	-	-	4.8	-	0.0	-	
		<i>Cyclothone signata</i>											
Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
76.7 55.0	-	-	0.0	-	0.0	-	-	-	0.0	-	15.0	-	
76.7 60.0	-	-	0.0	-	0.0	-	-	-	0.0	-	9.5	-	
76.7 80.0	-	-	0.0	-	20.6	-	-	-	0.0	-	0.0	-	
76.7 90.0	-	-	0.0	-	9.3	-	-	-	5.0	-	-	-	
76.7 100.0	-	-	0.0	-	15.1	-	-	-	-	-	-	-	
80.0 80.0	-	-	0.0	-	19.5	-	-	-	34.8	-	0.0	-	
80.0 90.0	-	-	0.0	-	25.9	-	-	-	18.6	-	0.0	-	
80.0 100.0	-	-	0.0	-	24.1	-	-	-	-	-	-	-	
83.3 42.0	-	-	0.0	-	9.9	-	-	-	0.0	-	0.0	-	
83.3 60.0	-	-	9.6	-	0.0	-	-	-	0.0	-	0.0	-	
83.3 90.0	-	-	0.0	-	10.0	-	-	-	9.8	-	0.0	-	
83.3 100.0	-	-	0.0	-	0.0	-	-	-	65.4	-	0.0	-	
83.3 110.0	-	-	-	-	0.0	-	-	-	92.2	-	0.0	-	
86.7 80.0	-	-	0.0	-	31.2	-	-	-	10.3	-	0.0	-	
86.7 90.0	-	-	0.0	-	15.5	-	-	-	9.5	-	0.0	-	
86.7 100.0	-	-	0.0	-	25.2	-	-	-	14.9	-	-	-	
86.7 110.0	-	-	-	-	0.0	-	-	-	41.6	-	4.5	-	
90.0 53.0	-	-	0.0	-	9.3	-	-	-	0.0	-	0.0	-	
90.0 60.0	-	-	19.1	-	0.0	-	-	-	0.0	-	0.0	-	
90.0 70.0	-	-	4.9	-	0.0	-	-	-	0.0	-	0.0	-	
90.0 80.0	-	-	9.8	-	0.0	-	-	-	45.6	-	0.0	-	
90.0 90.0	-	-	0.0	-	19.4	-	-	-	0.0	-	10.4	-	
90.0 100.0	-	-	0.0	-	4.8	-	-	-	15.0	-	9.7	-	

TABLE 4. (cont.)

		<i>Cyclothone signata</i> (cont.)											
Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
90.0 110.0	-	-	0.0	-	0.0	-	-	-	40.7	-	9.8	-	
90.0 120.0	-	-	19.4	-	4.8	-	-	-	43.0	-	24.0	-	
93.3 50.0	-	-	21.6	-	0.0	-	-	-	0.0	-	0.0	-	
93.3 60.0	-	-	42.5	-	0.0	-	-	-	0.0	-	0.0	-	
93.3 70.0	-	-	20.4	-	5.0	-	-	-	0.0	-	4.5	-	
93.3 80.0	-	-	5.0	-	9.7	-	-	-	9.8	-	18.3	-	
93.3 90.0	-	-	28.2	-	0.0	-	-	-	10.0	-	20.0	-	
93.3 100.0	-	-	38.2	-	9.6	-	-	-	45.8	-	14.4	-	
93.3 110.0	-	-	90.1	-	4.9	-	-	-	38.9	-	19.6	-	
93.3 120.0	-	-	39.1	-	0.0	-	-	-	14.6	-	9.7	-	
		<i>Sternoptychidae</i>											
Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
83.3 80.0	-	-	0.0	-	0.0	-	-	-	0.0	-	4.9	-	
93.3 90.0	-	-	0.0	-	0.0	-	-	-	0.0	-	10.0	-	
		<i>Argyropelecus</i> spp.											
Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
76.7 80.0	-	-	0.0	-	0.0	-	-	-	0.0	-	4.6	-	
83.3 42.0	-	-	9.7	-	0.0	-	-	-	0.0	-	0.0	-	
83.3 80.0	-	-	0.0	-	0.0	-	-	-	4.7	-	0.0	-	
83.3 90.0	-	-	0.0	-	0.0	-	-	-	0.0	-	4.7	-	
		<i>Argyropelecus affinis</i>											
Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
76.7 70.0	-	-	0.0	-	0.0	-	-	-	0.0	-	4.8	-	
83.3 80.0	-	-	0.0	-	0.0	-	-	-	4.7	-	0.0	-	
83.3 110.0	-	-	-	-	5.0	-	-	-	0.0	-	0.0	-	
86.7 35.0	-	-	0.0	-	10.3	-	-	-	0.0	-	0.0	-	
86.7 60.0	-	-	0.0	-	11.0	-	-	-	0.0	-	0.0	-	
90.0 80.0	-	-	4.9	-	0.0	-	-	-	0.0	-	0.0	-	
90.0 100.0	-	-	0.0	-	4.8	-	-	-	0.0	-	4.8	-	
90.0 110.0	-	-	0.0	-	0.0	-	-	-	5.1	-	9.8	-	

TABLE 4. (cont.)

<i>Argyrolepelecus affinis</i> (cont.)												
Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
93.3 30.0	-	-	10.8	0.0	-	-	-	-	0.0	-	0.0	-
93.3 40.0	-	-	5.6	-	0.0	-	-	-	0.0	-	0.0	-
93.3 100.0	-	-	0.0	-	0.0	-	-	-	5.1	-	0.0	-
<i>Argyrolepelecus hemigymnus</i>												
Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
86.7 39.5	-	-	10.2	-	0.0	-	-	-	0.0	-	0.0	-
90.0 70.0	-	-	0.0	-	0.0	-	-	-	0.0	-	4.9	-
90.0 80.0	-	-	0.0	-	0.0	-	-	-	0.0	-	4.9	-
90.0 90.0	-	-	0.0	-	0.0	-	-	-	0.0	-	5.2	-
90.0 110.0	-	-	0.0	-	0.0	-	-	-	5.1	-	0.0	-
93.3 30.0	-	-	10.8	0.0	-	-	-	-	0.0	-	0.0	-
93.3 90.0	-	-	0.0	-	0.0	-	-	-	0.0	-	5.0	-
93.3 110.0	-	-	9.5	-	0.0	-	-	-	0.0	-	0.0	-
<i>Argyrolepelecus lychuus</i>												
Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
86.7 55.0	-	-	0.0	-	10.0	-	-	-	0.0	-	0.0	-
86.7 60.0	-	-	0.0	-	0.0	-	-	-	9.9	-	0.0	-
90.0 45.0	-	-	10.3	-	0.0	-	-	-	0.0	-	0.0	-
90.0 120.0	-	-	4.8	-	0.0	-	-	-	0.0	-	0.0	-
93.3 50.0	-	-	0.0	-	0.0	-	-	-	5.3	-	0.0	-
93.3 60.0	-	-	5.3	-	0.0	-	-	-	0.0	-	0.0	-
93.3 90.0	-	-	0.0	-	0.0	-	-	-	0.0	-	5.0	-
93.3 110.0	-	-	4.7	-	0.0	-	-	-	0.0	-	0.0	-
<i>Argyrolepelecus stadeni</i>												
Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
76.7 80.0	-	-	0.0	-	0.0	-	-	-	0.0	-	4.6	-
76.7 100.0	-	-	0.0	-	5.0	-	-	-	-	-	-	-
80.0 55.0	-	-	10.8	-	0.0	-	-	-	10.3	-	0.0	-
80.0 60.0	-	-	0.0	-	0.0	-	-	-	0.0	-	4.9	-
80.0 70.0	-	-	0.0	-	0.0	-	-	-	0.0	-	4.8	-

TABLE 4. (cont.)

Station	<i>Argyropelecus sladeni</i> (cont.)											
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
83.3 42.0	-	-	9.7	-	0.0	-	-	-	0.0	-	0.0	-
83.3 60.0	-	-	9.6	-	0.0	-	-	-	0.0	-	0.0	-
83.3 80.0	-	-	4.6	-	0.0	-	-	-	0.0	-	0.0	-
86.7 35.0	-	-	0.0	-	10.3	-	-	-	0.0	-	0.0	-
86.7 80.0	-	-	0.0	-	10.4	-	-	-	5.2	-	0.0	-
86.7 90.0	-	-	0.0	-	10.3	-	-	-	0.0	-	0.0	-
90.0 45.0	-	-	0.0	-	0.0	-	-	-	0.0	-	4.8	-
90.0 60.0	-	-	9.5	-	0.0	-	-	-	0.0	-	0.0	-
90.0 70.0	-	-	4.9	-	5.1	-	-	-	0.0	-	9.9	-
90.0 80.0	-	-	0.0	-	0.0	-	-	-	0.0	-	4.9	-
90.0 100.0	-	-	0.0	-	0.0	-	-	-	0.0	-	4.8	-
90.0 110.0	-	-	5.1	-	0.0	-	-	-	10.2	-	0.0	-
90.0 120.0	-	-	0.0	-	0.0	-	-	-	4.8	-	0.0	-
93.3 28.0	-	-	17.9	0.0	-	-	-	-	0.0	-	0.0	-
93.3 45.0	-	-	9.2	-	0.0	-	-	-	0.0	-	0.0	-
93.3 80.0	-	-	5.0	-	4.9	-	-	-	4.9	-	0.0	-
93.3 90.0	-	-	0.0	-	0.0	-	-	-	5.0	-	5.0	-
93.3 110.0	-	-	4.7	-	0.0	-	-	-	4.9	-	0.0	-
<i>Danaphos oculatus</i>												
Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
80.0 55.0	-	-	0.0	-	0.0	-	-	-	10.3	-	0.0	-
83.3 55.0	-	-	0.0	-	0.0	-	-	-	0.0	-	4.4	-
83.3 100.0	-	-	0.0	-	0.0	-	-	-	5.0	-	0.0	-
86.7 90.0	-	-	0.0	-	15.5	-	-	-	0.0	-	0.0	-
86.7 100.0	-	-	0.0	-	5.0	-	-	-	5.0	-	-	-
86.7 110.0	-	-	-	-	5.3	-	-	-	0.0	-	0.0	-
90.0 53.0	-	-	9.3	-	0.0	-	-	-	0.0	-	0.0	-
90.0 70.0	-	-	0.0	-	5.1	-	-	-	0.0	-	0.0	-
90.0 80.0	-	-	0.0	-	0.0	-	-	-	0.0	-	4.9	-
90.0 100.0	-	-	0.0	-	0.0	-	-	-	0.0	-	4.8	-

TABLE 4. (cont.)

		<i>Danaphos oculatus</i> (cont.)											
Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
90.0	110.0	-	0.0	-	0.0	-	-	-	10.2	-	4.9	-	
90.0	120.0	-	0.0	-	0.0	-	-	-	0.0	-	9.6	-	
93.3	26.7	-	9.2	0.0	-	-	-	-	0.0	-	0.0	-	
93.3	40.0	-	5.6	-	0.0	-	-	-	0.0	-	0.0	-	
93.3	55.0	-	11.8	-	0.0	-	-	-	0.0	-	0.0	-	
93.3	70.0	-	5.1	-	0.0	-	-	-	0.0	-	0.0	-	
		<i>Sternopyx</i> spp.											
Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
80.0	80.0	-	0.0	-	0.0	-	-	-	0.0	-	4.5	-	
83.3	110.0	-	-	-	0.0	-	-	-	10.2	-	0.0	-	
86.7	80.0	-	0.0	-	0.0	-	-	-	0.0	-	5.1	-	
86.7	90.0	-	0.0	-	5.2	-	-	-	0.0	-	0.0	-	
86.7	100.0	-	0.0	-	5.0	-	-	-	0.0	-	-	-	
90.0	110.0	-	0.0	-	10.1	-	-	-	5.1	-	0.0	-	
90.0	120.0	-	0.0	-	9.6	-	-	-	4.8	-	0.0	-	
93.3	80.0	-	0.0	-	0.0	-	-	-	4.9	-	3.6	-	
93.3	100.0	-	0.0	-	0.0	-	-	-	5.1	-	0.0	-	
93.3	120.0	-	0.0	-	4.8	-	-	-	0.0	-	4.9	-	
		<i>Ichthyococcus irregularis</i>											
Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
90.0	90.0	-	0.0	-	4.8	-	-	-	0.0	-	0.0	-	
		<i>Vinciguerria lucetia</i>											
Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
76.7	90.0	-	0.0	-	0.0	-	-	-	24.8	-	-	-	
80.0	80.0	-	0.0	-	0.0	-	-	-	54.7	-	0.0	-	
80.0	90.0	-	0.0	-	0.0	-	-	-	9.3	-	0.0	-	
83.3	42.0	-	0.0	-	0.0	-	-	-	4.9	-	0.0	-	
83.3	60.0	-	0.0	-	0.0	-	-	-	74.1	-	0.0	-	
83.3	70.0	-	0.0	-	0.0	-	-	-	9.7	-	0.0	-	
83.3	90.0	-	0.0	-	0.0	-	-	-	14.8	-	9.4	-	

TABLE 4. (cont.)

Station	<i>Vinciguerria lucetia</i> (cont.)											
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
83.3 100.0	-	-	0.0	-	0.0	-	-	-	301.8	-	4.5	-
83.3 110.0	-	-	-	-	0.0	-	-	-	286.7	-	0.0	-
86.7 60.0	-	-	20.4	-	0.0	-	-	-	0.0	-	0.0	-
86.7 80.0	-	-	0.0	-	0.0	-	-	-	20.6	-	0.0	-
86.7 90.0	-	-	0.0	-	0.0	-	-	-	52.1	-	8.7	-
86.7 100.0	-	-	0.0	-	0.0	-	-	-	119.5	-	-	-
86.7 110.0	-	-	-	-	53.4	-	-	-	1081.1	-	4.5	-
90.0 60.0	-	-	9.5	-	0.0	-	-	-	0.0	-	0.0	-
90.0 70.0	-	-	4.9	-	0.0	-	-	-	0.0	-	0.0	-
90.0 80.0	-	-	0.0	-	0.0	-	-	-	623.6	-	19.6	-
90.0 90.0	-	-	0.0	-	0.0	-	-	-	0.0	-	31.2	-
90.0 100.0	-	-	0.0	-	0.0	-	-	-	209.6	-	19.4	-
90.0 110.0	-	-	5.1	-	105.8	-	-	-	361.4	-	53.8	-
90.0 120.0	-	-	72.6	-	48.1	-	-	-	607.1	-	48.1	-
93.3 30.0	-	-	0.0	9.9	-	-	-	-	11.6	-	0.0	-
93.3 40.0	-	-	5.6	-	0.0	-	-	-	0.0	-	4.9	-
93.3 45.0	-	-	0.0	-	0.0	-	-	-	0.0	-	29.2	-
93.3 55.0	-	-	0.0	-	0.0	-	-	-	4.7	-	0.0	-
93.3 60.0	-	-	31.9	-	0.0	-	-	-	0.0	-	4.3	-
93.3 70.0	-	-	15.3	-	5.0	-	-	-	0.0	-	4.5	-
93.3 80.0	-	-	25.1	-	14.6	-	-	-	259.2	-	80.3	-
93.3 90.0	-	-	4.7	-	4.6	-	-	-	374.3	-	195.4	-
93.3 100.0	-	-	14.3	-	0.0	-	-	-	386.8	-	76.8	-
93.3 110.0	-	-	47.4	-	0.0	-	-	-	524.9	-	39.1	-
93.3 120.0	-	-	19.6	-	425.0	-	-	-	258.1	-	4.9	-
<i>Vinciguerria poweriae</i>												
Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
83.3 90.0	-	-	0.0	-	0.0	-	-	-	0.0	-	4.7	-
83.3 110.0	-	-	-	-	0.0	-	-	-	261.1	-	0.0	-
90.0 100.0	-	-	0.0	-	4.8	-	-	-	0.0	-	9.7	-

TABLE 4. (cont.)

		<i>Vinciguerria poweriae</i> (cont.)											
Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
90.0	110.0	-	10.2	-	0.0	-	-	-	315.6	-	0.0	-	
90.0	120.0	-	0.0	-	0.0	-	-	-	310.7	-	4.8	-	
93.3	70.0	-	5.1	-	0.0	-	-	-	0.0	-	0.0	-	
93.3	80.0	-	0.0	-	0.0	-	-	-	39.1	-	3.6	-	
93.3	90.0	-	0.0	-	0.0	-	-	-	20.0	-	5.0	-	
93.3	100.0	-	9.6	-	0.0	-	-	-	127.3	-	0.0	-	
93.3	110.0	-	19.0	-	4.9	-	-	-	315.9	-	0.0	-	
93.3	120.0	-	9.8	-	0.0	-	-	-	151.0	-	0.0	-	
		<i>Chaulioides macouni</i>											
Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
76.7	70.0	-	8.9	-	0.0	-	-	-	0.0	-	0.0	-	
76.7	80.0	-	9.9	-	0.0	-	-	-	0.0	-	4.6	-	
80.0	60.0	-	9.8	-	0.0	-	-	-	0.0	-	0.0	-	
80.0	90.0	-	5.2	-	0.0	-	-	-	0.0	-	0.0	-	
80.0	100.0	-	0.0	-	4.8	-	-	-	-	-	-	-	
83.3	42.0	-	0.0	-	0.0	-	-	-	4.9	-	0.0	-	
83.3	55.0	-	0.0	-	21.6	-	-	-	0.0	-	0.0	-	
83.3	90.0	-	4.7	-	0.0	-	-	-	0.0	-	0.0	-	
83.3	100.0	-	0.0	-	5.4	-	-	-	0.0	-	0.0	-	
86.7	70.0	-	0.0	-	0.0	-	-	-	0.0	-	4.8	-	
86.7	80.0	-	0.0	-	0.0	-	-	-	10.3	-	0.0	-	
86.7	90.0	-	0.0	-	0.0	-	-	-	4.7	-	0.0	-	
90.0	30.0	-	0.0	-	10.0	-	-	-	0.0	-	0.0	-	
90.0	70.0	-	0.0	-	5.1	-	-	-	0.0	-	0.0	-	
90.0	80.0	-	0.0	-	0.0	-	-	-	0.0	-	4.9	-	
90.0	110.0	-	0.0	-	0.0	-	-	-	0.0	-	4.9	-	
93.3	40.0	-	5.6	-	0.0	-	-	-	0.0	-	0.0	-	
		<i>Stomias atriventer</i>											
Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
83.3	60.0	-	9.6	-	0.0	-	-	-	0.0	-	0.0	-	

TABLE 4. (cont.)

		<i>Stomias atriventer</i> (cont.)											
Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
83.3	70.0	-	11.0	-	0.0	-	-	-	0.0	-	0.0	-	
86.7	39.5	-	10.2	-	0.0	-	-	-	0.0	-	0.0	-	
86.7	60.0	-	10.2	-	0.0	-	-	-	0.0	-	0.0	-	
90.0	35.0	-	10.8	-	0.0	-	-	-	0.0	-	0.0	-	
90.0	53.0	-	18.7	-	0.0	-	-	-	0.0	-	0.0	-	
90.0	70.0	-	4.9	-	0.0	-	-	-	0.0	-	0.0	-	
90.0	80.0	-	4.9	-	0.0	-	-	-	0.0	-	0.0	-	
93.3	26.7	-	9.2	0.0	-	-	-	-	0.0	-	0.0	-	
93.3	45.0	-	18.5	-	0.0	-	-	-	0.0	-	0.0	-	
93.3	55.0	-	11.8	-	0.0	-	-	-	0.0	-	0.0	-	
93.3	60.0	-	5.3	-	0.0	-	-	-	0.0	-	0.0	-	
93.3	80.0	-	5.0	-	0.0	-	-	-	0.0	-	0.0	-	
93.3	100.0	-	4.8	-	0.0	-	-	-	0.0	-	0.0	-	
93.3	110.0	-	4.7	-	0.0	-	-	-	0.0	-	0.0	-	
		<i>Melanostomiinae</i>											
Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
90.0	110.0	-	0.0	-	0.0	-	-	-	0.0	-	4.9	-	
		<i>Bathophilus flemingi</i>											
Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
83.3	70.0	-	11.0	-	0.0	-	-	-	0.0	-	0.0	-	
86.7	80.0	-	0.0	-	0.0	-	-	-	5.2	-	0.0	-	
90.0	80.0	-	0.0	-	0.0	-	-	-	5.1	-	0.0	-	
90.0	100.0	-	0.0	-	0.0	-	-	-	5.0	-	0.0	-	
90.0	110.0	-	5.1	-	0.0	-	-	-	0.0	-	0.0	-	
93.3	70.0	-	5.1	-	0.0	-	-	-	0.0	-	0.0	-	
		<i>Tactostoma macropus</i>											
Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
76.7	80.0	-	0.0	-	0.0	-	-	-	10.0	-	0.0	-	
76.7	100.0	-	0.0	-	5.0	-	-	-	-	-	-	-	
83.3	80.0	-	0.0	-	0.0	-	-	-	4.7	-	0.0	-	

TABLE 4. (cont.)

<i>Tactostoma macropus</i> (cont.)												
Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
86.7 110.0	-	-	-	-	10.7	-	-	-	0.0	-	0.0	-
90.0 120.0	-	-	0.0	-	4.8	-	-	-	0.0	-	0.0	-
93.3 90.0	-	-	4.7	-	0.0	-	-	-	0.0	-	0.0	-
<i>Aristostomias scintillans</i>												
Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
76.7 100.0	-	-	9.7	-	0.0	-	-	-	-	-	-	-
83.3 110.0	-	-	-	-	0.0	-	-	-	5.1	-	0.0	-
86.7 100.0	-	-	0.0	-	10.1	-	-	-	0.0	-	-	-
86.7 110.0	-	-	-	-	10.7	-	-	-	0.0	-	0.0	-
90.0 80.0	-	-	4.9	-	0.0	-	-	-	0.0	-	0.0	-
90.0 110.0	-	-	15.4	-	0.0	-	-	-	0.0	-	0.0	-
90.0 120.0	-	-	4.8	-	0.0	-	-	-	0.0	-	0.0	-
93.3 90.0	-	-	0.0	-	0.0	-	-	-	0.0	-	5.0	-
93.3 110.0	-	-	4.7	-	0.0	-	-	-	0.0	-	4.9	-
93.3 120.0	-	-	0.0	-	4.8	-	-	-	0.0	-	0.0	-
<i>Idiacanthus antrostomus</i>												
Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
76.7 60.0	-	-	0.0	-	0.0	-	-	-	0.0	-	4.8	-
76.7 70.0	-	-	0.0	-	0.0	-	-	-	0.0	-	4.8	-
76.7 80.0	-	-	0.0	-	0.0	-	-	-	0.0	-	4.6	-
76.7 90.0	-	-	0.0	-	0.0	-	-	-	5.0	-	-	-
80.0 70.0	-	-	0.0	-	0.0	-	-	-	0.0	-	4.8	-
80.0 80.0	-	-	0.0	-	0.0	-	-	-	14.9	-	0.0	-
80.0 90.0	-	-	0.0	-	0.0	-	-	-	4.7	-	0.0	-
83.3 60.0	-	-	0.0	-	0.0	-	-	-	4.6	-	0.0	-
83.3 80.0	-	-	0.0	-	0.0	-	-	-	4.7	-	0.0	-
83.3 90.0	-	-	4.7	-	0.0	-	-	-	0.0	-	4.7	-
83.3 100.0	-	-	9.5	-	0.0	-	-	-	0.0	-	9.0	-
83.3 110.0	-	-	-	-	0.0	-	-	-	30.7	-	4.7	-
86.7 55.0	-	-	0.0	-	0.0	-	-	-	0.0	-	5.2	-

TABLE 4. (cont.)

<i>Ictiophaga eukaryotus</i> (cont.)												
Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
86.7 90.0	-	-	0.0	-	0.0	-	-	-	0.0	-	4.3	-
86.7 110.0	-	-	-	-	0.0	-	-	-	9.2	-	0.0	-
90.0 80.0	-	-	0.0	-	0.0	-	-	-	5.1	-	0.0	-
90.0 100.0	-	-	0.0	-	0.0	-	-	-	34.9	-	0.0	-
90.0 110.0	-	-	0.0	-	0.0	-	-	-	15.3	-	9.8	-
90.0 120.0	-	-	0.0	-	0.0	-	-	-	19.1	-	0.0	-
93.3 80.0	-	-	0.0	-	0.0	-	-	-	4.9	-	0.0	-
93.3 100.0	-	-	0.0	-	0.0	-	-	-	45.8	-	0.0	-
93.3 110.0	-	-	0.0	-	0.0	-	-	-	0.0	-	4.9	-
<i>Scopelarchidae</i>												
Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
93.3 120.0	-	-	0.0	-	0.0	-	-	-	9.7	-	0.0	-
<i>Benthalbella dentata</i>												
Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
76.7 70.0	-	-	0.0	-	0.0	-	-	-	0.0	-	4.8	-
86.7 80.0	-	-	0.0	-	0.0	-	-	-	0.0	-	5.1	-
93.3 40.0	-	-	5.6	-	5.0	-	-	-	0.0	-	0.0	-
93.3 80.0	-	-	0.0	-	4.9	-	-	-	0.0	-	0.0	-
93.3 100.0	-	-	0.0	-	4.8	-	-	-	0.0	-	0.0	-
93.3 110.0	-	-	0.0	-	4.9	-	-	-	0.0	-	0.0	-
<i>Rosenblattichthys volucris</i>												
Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
83.3 100.0	-	-	0.0	-	0.0	-	-	-	0.0	-	4.5	-
93.3 100.0	-	-	0.0	-	0.0	-	-	-	5.1	-	0.0	-
93.3 110.0	-	-	0.0	-	0.0	-	-	-	4.9	-	0.0	-
<i>Scopelarchus analis</i>												
Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
90.0 120.0	-	-	0.0	-	0.0	-	-	-	4.8	-	4.8	-
93.3 70.0	-	-	0.0	-	0.0	-	-	-	0.0	-	4.5	-
93.3 90.0	-	-	0.0	-	0.0	-	-	-	0.0	-	10.0	-
93.3 110.0	-	-	0.0	-	0.0	-	-	-	0.0	-	4.9	-

TABLE 4. (cont.)

		<i>Scopelarchus anaitis</i> (cont.)											
Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
93.3 120.0	-	-	0.0	-	0.0	-	-	-	4.9	-	4.9	-	
		<i>Scopelarchus guentheri</i>											
Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
90.0 90.0	-	-	0.0	-	0.0	-	-	-	0.0	-	5.2	-	
		<i>Scopelosaurus harryi</i>											
Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
76.7 70.0	-	-	0.0	-	9.9	-	-	-	0.0	-	0.0	-	
76.7 90.0	-	-	0.0	-	4.6	-	-	-	0.0	-	-	-	
76.7 100.0	-	-	0.0	-	5.0	-	-	-	-	-	-	-	
80.0 90.0	-	-	0.0	-	10.4	-	-	-	0.0	-	0.0	-	
83.3 90.0	-	-	0.0	-	5.0	-	-	-	0.0	-	0.0	-	
83.3 100.0	-	-	0.0	-	10.8	-	-	-	0.0	-	0.0	-	
86.7 100.0	-	-	9.3	-	0.0	-	-	-	0.0	-	-	-	
86.7 110.0	-	-	-	-	21.4	-	-	-	0.0	-	0.0	-	
90.0 60.0	-	-	0.0	-	8.7	-	-	-	0.0	-	0.0	-	
90.0 110.0	-	-	5.1	-	0.0	-	-	-	0.0	-	0.0	-	
93.3 60.0	-	-	0.0	-	20.1	-	-	-	0.0	-	0.0	-	
93.3 80.0	-	-	0.0	-	4.9	-	-	-	0.0	-	0.0	-	
93.3 100.0	-	-	0.0	-	0.0	-	-	-	5.1	-	0.0	-	
		<i>Synodus lucioceps</i>											
Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
81.8 46.9	-	-	0.0	-	0.0	-	-	-	19.4	-	0.0	-	
83.3 40.6	-	-	0.0	-	0.0	-	-	-	8.8	-	0.0	-	
		<i>Arctozenus risso</i>											
Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
80.0 80.0	-	-	0.0	-	4.9	-	-	-	0.0	-	0.0	-	
93.3 100.0	-	-	4.8	-	0.0	-	-	-	0.0	-	0.0	-	
93.3 110.0	-	-	0.0	-	4.9	-	-	-	0.0	-	0.0	-	
		<i>Lestidiops</i> spp.											
Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
90.0 45.0	-	-	0.0	-	0.0	-	-	-	0.0	-	4.8	-	

TABLE 4. (cont.)

Station	<i>Lestidiops ringens</i>											
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
76.7 60.0	-	-	0.0	-	0.0	-	-	-	0.0	-	4.8	-
80.0 70.0	-	-	0.0	-	0.0	-	-	-	0.0	-	4.8	-
80.0 80.0	-	-	0.0	-	0.0	-	-	-	19.9	-	0.0	-
80.0 90.0	-	-	0.0	-	0.0	-	-	-	4.7	-	0.0	-
83.3 55.0	-	-	10.8	-	0.0	-	-	-	0.0	-	0.0	-
83.3 60.0	-	-	0.0	-	0.0	-	-	-	4.6	-	0.0	-
83.3 70.0	-	-	11.0	-	0.0	-	-	-	0.0	-	0.0	-
83.3 80.0	-	-	0.0	-	0.0	-	-	-	4.7	-	0.0	-
83.3 90.0	-	-	0.0	-	0.0	-	-	-	4.9	-	0.0	-
83.3 100.0	-	-	0.0	-	0.0	-	-	-	20.1	-	0.0	-
86.7 70.0	-	-	10.1	-	0.0	-	-	-	0.0	-	0.0	-
86.7 100.0	-	-	0.0	-	0.0	-	-	-	5.0	-	-	-
90.0 70.0	-	-	0.0	-	0.0	-	-	-	5.0	-	0.0	-
90.0 80.0	-	-	4.9	-	0.0	-	-	-	5.1	-	0.0	-
90.0 100.0	-	-	0.0	-	0.0	-	-	-	10.0	-	0.0	-
90.0 110.0	-	-	0.0	-	0.0	-	-	-	5.1	-	0.0	-
93.3 30.0	-	-	0.0	0.0	-	-	-	-	0.0	-	4.9	-
93.3 70.0	-	-	5.1	-	10.0	-	-	-	0.0	-	4.5	-
93.3 80.0	-	-	5.0	-	0.0	-	-	-	9.8	-	0.0	-
93.3 100.0	-	-	0.0	-	4.8	-	-	-	20.4	-	0.0	-
<i>Magnisudis atlantica</i>												
Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
90.0 120.0	-	-	4.8	-	0.0	-	-	-	0.0	-	0.0	-
Myctophidae												
Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
76.7 55.0	-	-	0.0	-	0.0	-	-	-	9.9	-	0.0	-
76.7 100.0	-	-	0.0	-	5.0	-	-	-	-	-	-	-
80.0 80.0	-	-	0.0	-	0.0	-	-	-	5.0	-	9.0	-
80.0 90.0	-	-	0.0	-	0.0	-	-	-	4.7	-	0.0	-
83.3 55.0	-	-	0.0	-	0.0	-	-	-	0.0	-	4.4	-

TABLE 4. (cont.)

Station	Myctophidae (cont.)											
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
83.3 70.0	-	-	0.0	-	0.0	-	-	-	0.0	-	4.6	-
83.3 80.0	-	-	0.0	-	0.0	-	-	-	0.0	-	9.8	-
83.3 90.0	-	-	0.0	-	0.0	-	-	-	4.9	-	0.0	-
86.7 55.0	-	-	0.0	-	0.0	-	-	-	9.0	-	0.0	-
90.0 60.0	-	-	0.0	-	8.7	-	-	-	0.0	-	0.0	-
90.0 80.0	-	-	0.0	-	0.0	-	-	-	5.1	-	0.0	-
90.0 100.0	-	-	0.0	-	23.9	-	-	-	0.0	-	0.0	-
90.0 110.0	-	-	0.0	-	10.1	-	-	-	0.0	-	0.0	-
93.3 40.0	-	-	0.0	-	0.0	-	-	-	0.0	-	4.9	-
93.3 45.0	-	-	0.0	-	0.0	-	-	-	0.0	-	4.9	-
93.3 60.0	-	-	0.0	-	20.1	-	-	-	0.0	-	0.0	-
93.3 70.0	-	-	0.0	-	5.0	-	-	-	0.0	-	0.0	-
93.3 90.0	-	-	4.7	-	0.0	-	-	-	0.0	-	5.0	-
93.3 100.0	-	-	0.0	-	4.8	-	-	-	5.1	-	0.0	-
93.3 120.0	-	-	0.0	-	9.7	-	-	-	4.9	-	0.0	-
<i>Ceratoscopelus townsendi</i>												
Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
76.7 60.0	-	-	0.0	-	0.0	-	-	-	0.0	-	4.8	-
76.7 70.0	-	-	0.0	-	19.9	-	-	-	0.0	-	9.6	-
76.7 80.0	-	-	0.0	-	0.0	-	-	-	0.0	-	4.6	-
76.7 90.0	-	-	0.0	-	4.6	-	-	-	0.0	-	-	-
80.0 70.0	-	-	9.5	-	0.0	-	-	-	14.8	-	0.0	-
80.0 80.0	-	-	0.0	-	0.0	-	-	-	39.8	-	0.0	-
80.0 90.0	-	-	0.0	-	36.3	-	-	-	0.0	-	0.0	-
83.3 60.0	-	-	0.0	-	0.0	-	-	-	4.6	-	0.0	-
83.3 70.0	-	-	0.0	-	0.0	-	-	-	9.7	-	0.0	-
83.3 100.0	-	-	0.0	-	0.0	-	-	-	15.1	-	0.0	-
83.3 110.0	-	-	-	-	0.0	-	-	-	189.4	-	0.0	-
86.7 80.0	-	-	0.0	-	0.0	-	-	-	10.3	-	0.0	-
86.7 90.0	-	-	0.0	-	5.2	-	-	-	0.0	-	0.0	-

TABLE 4. (cont.)

<i>Ceratoscopelus townsendi</i> (cont.)												
Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
86.7 100.0	-	-	0.0	-	10.1	-	-	-	5.0	-	-	-
86.7 110.0	-	-	-	-	5.3	-	-	-	97.0	-	0.0	-
90.0 80.0	-	-	0.0	-	0.0	-	-	-	30.4	-	0.0	-
90.0 90.0	-	-	0.0	-	0.0	-	-	-	0.0	-	5.2	-
90.0 100.0	-	-	0.0	-	23.9	-	-	-	10.0	-	24.2	-
90.0 110.0	-	-	20.5	-	20.2	-	-	-	142.5	-	9.8	-
90.0 120.0	-	-	14.5	-	19.2	-	-	-	191.2	-	24.0	-
93.3 55.0	-	-	0.0	-	0.0	-	-	-	4.7	-	0.0	-
93.3 60.0	-	-	5.3	-	0.0	-	-	-	0.0	-	0.0	-
93.3 70.0	-	-	10.2	-	0.0	-	-	-	0.0	-	0.0	-
93.3 80.0	-	-	10.0	-	0.0	-	-	-	4.9	-	3.6	-
93.3 90.0	-	-	0.0	-	0.0	-	-	-	10.0	-	55.1	-
93.3 100.0	-	-	19.1	-	0.0	-	-	-	71.3	-	4.8	-
93.3 110.0	-	-	47.4	-	0.0	-	-	-	53.5	-	24.4	-
93.3 120.0	-	-	4.9	-	67.6	-	-	-	34.1	-	4.9	-
<i>Diaphus</i> spp.												
Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
76.7 70.0	-	-	0.0	-	9.9	-	-	-	0.0	-	0.0	-
76.7 90.0	-	-	0.0	-	4.6	-	-	-	0.0	-	-	-
80.0 80.0	-	-	0.0	-	24.4	-	-	-	0.0	-	0.0	-
80.0 90.0	-	-	0.0	-	5.2	-	-	-	0.0	-	0.0	-
80.0 100.0	-	-	0.0	-	4.8	-	-	-	-	-	-	-
83.3 90.0	-	-	0.0	-	10.0	-	-	-	0.0	-	0.0	-
83.3 110.0	-	-	-	-	0.0	-	-	-	5.1	-	0.0	-
86.7 80.0	-	-	0.0	-	10.4	-	-	-	0.0	-	0.0	-
86.7 110.0	-	-	-	-	0.0	-	-	-	13.9	-	0.0	-
90.0 110.0	-	-	0.0	-	0.0	-	-	-	10.2	-	0.0	-
90.0 120.0	-	-	0.0	-	0.0	-	-	-	14.3	-	0.0	-
93.3 45.0	-	-	0.0	-	10.5	-	-	-	0.0	-	0.0	-
93.3 60.0	-	-	0.0	-	0.0	-	-	-	10.5	-	0.0	-

TABLE 4. (cont.)

Station	<i>Diaphus</i> spp. (cont.)											
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
93.3 110.0	-	-	4.7	-	0.0	-	-	-	9.7	-	0.0	-
93.3 120.0	-	-	0.0	-	0.0	-	-	-	14.6	-	0.0	-
Station	<i>Lampadena urophaos</i>											
90.0 100.0	-	-	0.0	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
	-	-	0.0	-	0.0	-	-	-	0.0	-	4.8	-
Station	<i>Lampanyctus</i> spp.											
80.0 80.0	-	-	0.0	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
80.0 90.0	-	-	0.0	-	0.0	-	-	-	0.0	-	4.5	-
83.3 110.0	-	-	-	-	5.2	-	-	-	14.0	-	0.0	-
86.7 70.0	-	-	0.0	-	0.0	-	-	-	5.1	-	0.0	-
86.7 110.0	-	-	-	-	0.0	-	-	-	0.0	-	4.8	-
90.0 90.0	-	-	0.0	-	0.0	-	-	-	18.5	-	0.0	-
90.0 110.0	-	-	15.4	-	0.0	-	-	-	5.0	-	0.0	-
90.0 120.0	-	-	4.8	-	9.6	-	-	-	0.0	-	0.0	-
93.3 28.0	-	-	9.0	10.0	-	-	-	-	0.0	-	0.0	-
93.3 60.0	-	-	15.9	-	10.1	-	-	-	0.0	-	0.0	-
93.3 70.0	-	-	0.0	-	0.0	-	-	-	10.9	-	0.0	-
93.3 80.0	-	-	35.1	-	0.0	-	-	-	0.0	-	0.0	-
93.3 100.0	-	-	4.8	-	0.0	-	-	-	15.3	-	0.0	-
93.3 110.0	-	-	0.0	-	9.8	-	-	-	4.9	-	0.0	-
93.3 120.0	-	-	0.0	-	9.7	-	-	-	0.0	-	0.0	-
Station	<i>Lampanyctus "niger"</i>											
86.7 110.0	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
	-	-	-	-	0.0	-	-	-	4.6	-	0.0	-
Station	<i>Lampanyctus "no pectorals"</i>											
83.3 110.0	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
93.3 90.0	-	-	-	-	5.0	-	-	-	0.0	-	0.0	-
	-	-	4.7	-	0.0	-	-	-	0.0	-	0.0	-

TABLE 4. (cont.)

Station	<i>Lampanyctus regalis</i>											
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
76.7 55.0	-	-	0.0	-	0.0	-	-	-	0.0	-	5.0	-
76.7 60.0	-	-	0.0	-	10.5	-	-	-	0.0	-	0.0	-
76.7 70.0	-	-	0.0	-	19.9	-	-	-	0.0	-	0.0	-
83.3 80.0	-	-	0.0	-	10.7	-	-	-	0.0	-	0.0	-
90.0 70.0	-	-	0.0	-	5.1	-	-	-	0.0	-	0.0	-
90.0 110.0	-	-	0.0	-	10.1	-	-	-	0.0	-	0.0	-
93.3 120.0	-	-	4.9	-	0.0	-	-	-	0.0	-	0.0	-
Station	<i>Lampanyctus ritleri</i>											
Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
76.7 55.0	-	9.6	-	0.0	-	-	-	0.0	-	0.0	-	
76.7 70.0	-	0.0	-	29.8	-	-	-	0.0	-	0.0	-	
76.7 80.0	-	29.7	-	20.6	-	-	-	29.9	-	0.0	-	
76.7 90.0	-	14.7	-	18.5	-	-	-	9.9	-	-	-	
76.7 100.0	-	14.6	-	15.1	-	-	-	-	-	-	-	
80.0 60.0	-	9.8	-	0.0	-	-	-	0.0	-	0.0	-	
80.0 70.0	-	19.0	-	0.0	-	-	-	0.0	-	0.0	-	
80.0 80.0	-	10.1	-	19.5	-	-	-	9.9	-	0.0	-	
80.0 90.0	-	20.7	-	10.4	-	-	-	0.0	-	4.8	-	
80.0 100.0	-	10.4	-	24.1	-	-	-	-	-	-	-	
83.3 55.0	-	10.8	-	10.8	-	-	-	0.0	-	0.0	-	
83.3 60.0	-	28.8	-	0.0	-	-	-	0.0	-	0.0	-	
83.3 80.0	-	4.6	-	10.7	-	-	-	0.0	-	0.0	-	
83.3 90.0	-	9.4	-	5.0	-	-	-	0.0	-	0.0	-	
83.3 100.0	-	9.5	-	21.6	-	-	-	0.0	-	0.0	-	
83.3 110.0	-	-	-	5.0	-	-	-	0.0	-	0.0	-	
86.7 50.0	-	11.3	-	0.0	-	-	-	0.0	-	0.0	-	
86.7 60.0	-	10.2	-	0.0	-	-	-	0.0	-	0.0	-	
86.7 70.0	-	0.0	-	10.1	-	-	-	0.0	-	0.0	-	
86.7 80.0	-	9.9	-	20.8	-	-	-	0.0	-	0.0	-	
86.7 90.0	-	9.3	-	46.4	-	-	-	0.0	-	0.0	-	

TABLE 4. (cont.)

Station	<i>Lampanyctus ritteri</i> (cont.)												
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
86.7 100.0	-	-	28.0	-	10.1	-	-	-	5.0	-	-	-	
86.7 110.0	-	-	-	-	21.4	-	-	-	0.0	-	0.0	-	
90.0 37.0	-	-	10.1	-	9.2	-	-	-	0.0	-	0.0	-	
90.0 53.0	-	-	18.7	-	4.6	-	-	-	0.0	-	0.0	-	
90.0 60.0	-	-	47.6	-	0.0	-	-	-	10.8	-	0.0	-	
90.0 70.0	-	-	0.0	-	15.3	-	-	-	0.0	-	0.0	-	
90.0 80.0	-	-	0.0	-	0.0	-	-	-	15.2	-	0.0	-	
90.0 90.0	-	-	9.5	-	14.5	-	-	-	0.0	-	0.0	-	
90.0 100.0	-	-	0.0	-	4.8	-	-	-	0.0	-	0.0	-	
90.0 110.0	-	-	5.1	-	0.0	-	-	-	0.0	-	0.0	-	
93.3 35.0	-	-	12.4	-	0.0	-	-	-	0.0	-	0.0	-	
93.3 45.0	-	-	9.2	-	0.0	-	-	-	0.0	-	0.0	-	
93.3 50.0	-	-	10.8	-	0.0	-	-	-	0.0	-	0.0	-	
93.3 55.0	-	-	0.0	-	0.0	-	-	-	14.1	-	0.0	-	
93.3 60.0	-	-	21.2	-	10.1	-	-	-	10.5	-	0.0	-	
93.3 70.0	-	-	10.2	-	0.0	-	-	-	0.0	-	0.0	-	
93.3 80.0	-	-	0.0	-	9.7	-	-	-	0.0	-	0.0	-	
93.3 90.0	-	-	18.8	-	0.0	-	-	-	15.0	-	0.0	-	
93.3 100.0	-	-	14.3	-	14.4	-	-	-	0.0	-	0.0	-	
93.3 110.0	-	-	4.7	-	0.0	-	-	-	0.0	-	0.0	-	
					<i>Lampanyctus steinbecki</i>								
Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
93.3 120.0	-	-	0.0	-	4.8	-	-	-	0.0	-	0.0	-	
					<i>Notolychnus valdiviae</i>								
Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
80.0 100.0	-	-	0.0	-	4.8	-	-	-	-	-	-	-	
86.7 110.0	-	-	-	-	0.0	-	-	-	9.2	-	0.0	-	
90.0 110.0	-	-	5.1	-	0.0	-	-	-	0.0	-	0.0	-	
90.0 120.0	-	-	4.8	-	0.0	-	-	-	4.8	-	4.8	-	
93.3 100.0	-	-	4.8	-	0.0	-	-	-	0.0	-	0.0	-	
93.3 120.0	-	-	0.0	-	9.7	-	-	-	9.7	-	0.0	-	

TABLE 4. (cont.)

Station	<i>Notoscopelus resplendens</i>											
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
83.3 60.0	-	-	0.0	-	0.0	-	-	-	4.6	-	0.0	-
83.3 110.0	-	-	-	-	0.0	-	-	-	5.1	-	0.0	-
86.7 110.0	-	-	-	-	5.3	-	-	-	0.0	-	0.0	-
90.0 120.0	-	-	4.8	-	0.0	-	-	-	0.0	-	0.0	-
93.3 120.0	-	-	0.0	-	0.0	-	-	-	9.7	-	0.0	-
Station	<i>Stenobranchius leucopsarus</i>											
Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
76.7 49.0	-	9.5	-	0.0	-	-	-	0.0	-	0.0	-	
76.7 51.0	-	85.3	-	30.0	-	-	-	0.0	-	0.0	-	
76.7 55.0	-	307.8	-	11.9	-	-	-	9.9	-	0.0	-	
76.7 60.0	-	26.8	-	21.0	-	-	-	0.0	-	0.0	-	
76.7 70.0	-	151.2	-	54.7	-	-	-	0.0	-	0.0	-	
76.7 80.0	-	39.6	-	82.6	-	-	-	0.0	-	0.0	-	
76.7 90.0	-	0.0	-	64.8	-	-	-	0.0	-	-	-	
76.7 100.0	-	0.0	-	5.0	-	-	-	-	-	-	-	
80.0 51.0	-	43.1	-	43.3	-	-	-	0.0	-	0.0	-	
80.0 55.0	-	205.4	-	104.5	-	-	-	0.0	-	0.0	-	
80.0 60.0	-	185.7	-	9.5	-	-	-	0.0	-	0.0	-	
80.0 70.0	-	85.5	-	69.5	-	-	-	0.0	-	0.0	-	
80.0 80.0	-	71.0	-	19.5	-	-	-	5.0	-	0.0	-	
80.0 90.0	-	0.0	-	31.1	-	-	-	0.0	-	0.0	-	
80.0 100.0	-	0.0	-	212.5	-	-	-	-	-	-	-	
81.8 46.9	-	268.4	-	49.7	-	-	-	0.0	-	0.0	-	
83.3 51.0	-	61.0	-	29.6	-	-	-	0.0	-	0.0	-	
83.3 55.0	-	97.1	-	270.0	-	-	-	0.0	-	0.0	-	
83.3 60.0	-	163.4	-	471.6	-	-	-	0.0	-	0.0	-	
83.3 70.0	-	0.0	-	21.0	-	-	-	0.0	-	0.0	-	
83.3 80.0	-	18.5	-	117.3	-	-	-	0.0	-	0.0	-	
83.3 90.0	-	51.9	-	124.8	-	-	-	0.0	-	0.0	-	
83.3 100.0	-	570.5	-	10.8	-	-	-	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.
86.7 33.0	-	-	24.4	-	8.8	-	-	-	0.0	-	0.0	-
86.7 35.0	-	-	32.1	-	72.2	-	-	-	0.0	-	0.0	-
86.7 39.5	-	-	194.1	-	115.1	-	-	-	0.0	-	0.0	-
86.7 45.0	-	-	139.5	-	156.9	-	-	-	0.0	-	0.0	-
86.7 50.0	-	-	0.0	-	78.7	-	-	-	0.0	-	0.0	-
86.7 55.0	-	-	64.9	-	100.4	-	-	-	0.0	-	0.0	-
86.7 60.0	-	-	40.9	-	88.1	-	-	-	0.0	-	0.0	-
86.7 70.0	-	-	0.0	-	293.4	-	-	-	0.0	-	0.0	-
86.7 80.0	-	-	9.9	-	0.0	-	-	-	0.0	-	0.0	-
86.7 90.0	-	-	46.7	-	10.3	-	-	-	4.7	-	0.0	-
86.7 100.0	-	-	102.7	-	0.0	-	-	-	0.0	-	-	-
90.0 28.0	-	-	0.0	-	10.0	-	-	-	0.0	-	0.0	-
90.0 30.0	-	-	0.0	-	49.9	-	-	-	0.0	-	0.0	-
90.0 35.0	-	-	32.4	-	9.2	-	-	-	0.0	-	0.0	-
90.0 37.0	-	-	10.1	-	37.0	-	-	-	0.0	-	0.0	-
90.0 45.0	-	-	174.8	-	7.6	-	-	-	0.0	-	0.0	-
90.0 53.0	-	-	65.4	-	46.3	-	-	-	0.0	-	0.0	-
90.0 60.0	-	-	38.1	-	8.7	-	-	-	0.0	-	0.0	-
90.0 70.0	-	-	0.0	-	20.4	-	-	-	0.0	-	0.0	-
90.0 80.0	-	-	0.0	-	52.0	-	-	-	0.0	-	0.0	-
90.0 90.0	-	-	28.5	-	0.0	-	-	-	0.0	-	0.0	-
90.0 120.0	-	-	0.0	-	4.8	-	-	-	0.0	-	0.0	-
93.3 26.7	-	-	27.7	0.0	-	-	-	-	0.0	-	0.0	-
93.3 28.0	-	-	0.0	10.0	-	-	-	-	0.0	-	0.0	-
93.3 30.0	-	-	0.0	9.9	-	-	-	-	0.0	-	0.0	-
93.3 35.0	-	-	0.0	-	62.8	-	-	-	0.0	-	0.0	-
93.3 40.0	-	-	22.2	-	40.2	-	-	-	0.0	-	0.0	-
93.3 45.0	-	-	101.6	-	21.0	-	-	-	0.0	-	0.0	-
93.3 50.0	-	-	64.7	-	77.4	-	-	-	0.0	-	0.0	-
93.3 55.0	-	-	212.1	-	52.8	-	-	-	0.0	-	0.0	-

TABLE 4. (cont.)

<i>Stenobrachius leucopsarus</i> (cont.)												
Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
93.3 60.0	-	-	5.3	-	10.1	-	-	-	0.0	-	0.0	-
93.3 70.0	-	-	5.1	-	0.0	-	-	-	0.0	-	0.0	-
93.3 80.0	-	-	0.0	-	9.7	-	-	-	0.0	-	0.0	-
<i>Triphoturus mexicanus</i>												
Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
76.7 70.0	-	-	0.0	-	5.0	-	-	-	0.0	-	0.0	-
76.7 80.0	-	-	0.0	-	10.3	-	-	-	0.0	-	0.0	-
76.7 90.0	-	-	0.0	-	4.6	-	-	-	0.0	-	-	-
80.0 55.0	-	-	10.8	-	0.0	-	-	-	0.0	-	0.0	-
80.0 80.0	-	-	0.0	-	0.0	-	-	-	5.0	-	0.0	-
80.0 90.0	-	-	0.0	-	0.0	-	-	-	23.3	-	0.0	-
83.3 40.6	-	-	0.0	-	0.0	-	-	-	4.4	-	0.0	-
83.3 42.0	-	-	0.0	-	9.9	-	-	-	0.0	-	0.0	-
83.3 55.0	-	-	0.0	-	0.0	-	-	-	10.3	-	0.0	-
83.3 60.0	-	-	9.6	-	0.0	-	-	-	0.0	-	0.0	-
83.3 90.0	-	-	0.0	-	0.0	-	-	-	4.9	-	0.0	-
83.3 100.0	-	-	0.0	-	5.4	-	-	-	15.1	-	0.0	-
86.7 33.0	-	-	0.0	-	0.0	-	-	-	25.0	-	0.0	-
86.7 35.0	-	-	0.0	-	0.0	-	-	-	0.0	-	5.4	-
86.7 60.0	-	-	0.0	-	0.0	-	-	-	29.8	-	0.0	-
86.7 70.0	-	-	0.0	-	0.0	-	-	-	10.0	-	0.0	-
86.7 80.0	-	-	0.0	-	0.0	-	-	-	5.2	-	0.0	-
86.7 90.0	-	-	0.0	-	30.9	-	-	-	4.7	-	0.0	-
86.7 100.0	-	-	0.0	-	0.0	-	-	-	5.0	-	-	-
90.0 28.0	-	-	5.0	-	0.0	-	-	-	0.0	-	0.0	-
90.0 30.0	-	-	0.0	-	0.0	-	-	-	40.6	-	0.0	-
90.0 35.0	-	-	0.0	-	0.0	-	-	-	14.9	-	0.0	-
90.0 37.0	-	-	0.0	-	0.0	-	-	-	10.2	-	0.0	-
90.0 60.0	-	-	0.0	-	26.1	-	-	-	0.0	-	0.0	-
90.0 80.0	-	-	0.0	-	0.0	-	-	-	111.5	-	0.0	-

TABLE 4. (cont.)

<i>Triphoturus mexicanus</i> (cont.)												
Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
90.0	90.0	-	0.0	-	33.9	-	-	-	0.0	-	0.0	-
90.0	100.0	-	0.0	-	19.2	-	-	-	15.0	-	0.0	-
90.0	110.0	-	0.0	-	0.0	-	-	-	5.1	-	0.0	-
93.3	28.0	-	9.0	10.0	-	-	-	-	10.4	-	0.0	-
93.3	30.0	-	0.0	0.0	-	-	-	-	57.8	-	0.0	-
93.3	35.0	-	0.0	-	10.5	-	-	-	56.6	-	0.0	-
93.3	40.0	-	0.0	-	0.0	-	-	-	21.6	-	0.0	-
93.3	45.0	-	0.0	-	0.0	-	-	-	22.4	-	0.0	-
93.3	55.0	-	0.0	-	0.0	-	-	-	4.7	-	0.0	-
93.3	60.0	-	47.8	-	0.0	-	-	-	0.0	-	0.0	-
93.3	70.0	-	5.1	-	14.9	-	-	-	0.0	-	0.0	-
93.3	80.0	-	0.0	-	9.7	-	-	-	34.2	-	0.0	-
93.3	90.0	-	0.0	-	4.6	-	-	-	79.8	-	0.0	-
93.3	100.0	-	0.0	-	14.4	-	-	-	0.0	-	0.0	-
93.3	110.0	-	0.0	-	29.3	-	-	-	14.6	-	0.0	-
93.3	120.0	-	0.0	-	4.8	-	-	-	14.6	-	0.0	-
<i>Diogenichthys atlanticus</i>												
Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
76.7	55.0	-	9.6	-	0.0	-	-	-	0.0	-	5.0	-
76.7	70.0	-	0.0	-	14.9	-	-	-	0.0	-	9.6	-
76.7	80.0	-	19.8	-	25.8	-	-	-	0.0	-	0.0	-
76.7	90.0	-	9.8	-	0.0	-	-	-	0.0	-	-	-
76.7	100.0	-	4.9	-	25.3	-	-	-	-	-	-	-
80.0	80.0	-	10.1	-	9.7	-	-	-	5.0	-	4.5	-
80.0	90.0	-	0.0	-	25.9	-	-	-	14.0	-	0.0	-
80.0	100.0	-	10.4	-	9.7	-	-	-	-	-	-	-
83.3	51.0	-	0.0	-	4.9	-	-	-	0.0	-	0.0	-
83.3	55.0	-	10.8	-	0.0	-	-	-	0.0	-	0.0	-
83.3	60.0	-	9.6	-	0.0	-	-	-	0.0	-	0.0	-
83.3	70.0	-	0.0	-	10.5	-	-	-	0.0	-	0.0	-

TABLE 4. (cont.)

		<i>Diogenichthys atlanticus</i> (cont.)											
Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
83.3 80.0	-	-	0.0	-	0.0	-	-	-	4.7	-	0.0	-	
83.3 90.0	-	-	4.7	-	5.0	-	-	-	0.0	-	0.0	-	
83.3 100.0	-	-	9.5	-	5.4	-	-	-	5.0	-	0.0	-	
83.3 110.0	-	-	-	-	0.0	-	-	-	10.2	-	4.7	-	
86.7 55.0	-	-	0.0	-	10.0	-	-	-	0.0	-	5.2	-	
86.7 60.0	-	-	20.4	-	0.0	-	-	-	0.0	-	0.0	-	
86.7 80.0	-	-	9.9	-	0.0	-	-	-	5.2	-	5.1	-	
86.7 90.0	-	-	0.0	-	30.9	-	-	-	4.7	-	0.0	-	
86.7 100.0	-	-	18.7	-	0.0	-	-	-	10.0	-	-	-	
86.7 110.0	-	-	-	-	5.3	-	-	-	13.9	-	0.0	-	
90.0 35.0	-	-	21.6	-	9.2	-	-	-	5.0	-	0.0	-	
90.0 70.0	-	-	14.6	-	5.1	-	-	-	5.0	-	0.0	-	
90.0 80.0	-	-	14.6	-	0.0	-	-	-	5.1	-	29.3	-	
90.0 90.0	-	-	4.8	-	4.8	-	-	-	0.0	-	15.6	-	
90.0 100.0	-	-	8.9	-	14.4	-	-	-	10.0	-	38.7	-	
90.0 110.0	-	-	138.2	-	0.0	-	-	-	20.4	-	24.4	-	
90.0 120.0	-	-	38.7	-	0.0	-	-	-	19.1	-	24.0	-	
93.3 35.0	-	-	24.7	-	0.0	-	-	-	0.0	-	0.0	-	
93.3 50.0	-	-	21.6	-	8.6	-	-	-	0.0	-	0.0	-	
93.3 55.0	-	-	11.8	-	0.0	-	-	-	14.1	-	0.0	-	
93.3 60.0	-	-	21.2	-	10.1	-	-	-	0.0	-	0.0	-	
93.3 70.0	-	-	15.3	-	0.0	-	-	-	10.9	-	0.0	-	
93.3 80.0	-	-	15.1	-	4.9	-	-	-	0.0	-	25.6	-	
93.3 90.0	-	-	9.4	-	0.0	-	-	-	0.0	-	30.1	-	
93.3 100.0	-	-	38.2	-	0.0	-	-	-	25.4	-	9.6	-	
93.3 110.0	-	-	33.2	-	34.2	-	-	-	14.6	-	39.1	-	
93.3 120.0	-	-	29.3	-	0.0	-	-	-	24.4	-	43.8	-	
<i>Electrona risso</i>													
Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
90.0 120.0	-	-	0.0	-	0.0	-	-	-	0.0	-	4.8	-	
93.3 110.0	-	-	0.0	-	0.0	-	-	-	0.0	-	4.9	-	

TABLE 4. (cont.)

Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
93.3 50.0	-	-	10.8	-	0.0	-	-	-	0.0	-	0.0	-
<i>Gonichthys tenuiculus</i>												
Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
90.0 110.0	-	-	0.0	-	5.0	-	-	-	0.0	-	0.0	-
<i>Hygophum spp.</i>												
Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
83.3 110.0	-	-	-	-	0.0	-	-	-	5.1	-	0.0	-
90.0 110.0	-	-	5.1	-	0.0	-	-	-	0.0	-	0.0	-
93.3 40.0	-	-	5.6	-	0.0	-	-	-	0.0	-	0.0	-
<i>Hygophum atratum</i>												
Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
86.7 110.0	-	-	-	-	5.3	-	-	-	0.0	-	0.0	-
90.0 80.0	-	-	4.9	-	0.0	-	-	-	0.0	-	0.0	-
93.3 80.0	-	-	0.0	-	0.0	-	-	-	0.0	-	3.6	-
93.3 90.0	-	-	0.0	-	0.0	-	-	-	0.0	-	5.0	-
93.3 120.0	-	-	0.0	-	4.8	-	-	-	0.0	-	0.0	-
<i>Hygophum reinhardtii</i>												
Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
90.0 120.0	-	-	0.0	-	4.8	-	-	-	0.0	-	0.0	-
<i>Loweina rara</i>												
Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
90.0 120.0	-	-	0.0	-	4.8	-	-	-	0.0	-	0.0	-
<i>Myctophum nitidulum</i>												
Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
83.3 60.0	-	-	0.0	-	0.0	-	-	-	4.6	-	0.0	-
83.3 90.0	-	-	0.0	-	0.0	-	-	-	4.9	-	0.0	-
86.7 80.0	-	-	0.0	-	0.0	-	-	-	0.0	-	5.1	-
90.0 110.0	-	-	0.0	-	5.0	-	-	-	0.0	-	0.0	-
90.0 120.0	-	-	4.8	-	0.0	-	-	-	0.0	-	0.0	-
93.3 90.0	-	-	0.0	-	0.0	-	-	-	0.0	-	5.0	-
93.3 100.0	-	-	0.0	-	0.0	-	-	-	0.0	-	4.8	-
93.3 110.0	-	-	4.7	-	0.0	-	-	-	4.9	-	4.9	-
93.3 120.0	-	-	24.4	-	0.0	-	-	-	0.0	-	0.0	-

TABLE 4. (cont.)

Station	<i>Protomyctophum crockeri</i>											
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
76.7 55.0	-	-	0.0	-	0.0	-	-	-	0.0	-	15.0	-
76.7 60.0	-	-	0.0	-	0.0	-	-	-	0.0	-	4.8	-
76.7 70.0	-	-	0.0	-	9.9	-	-	-	0.0	-	4.8	-
76.7 80.0	-	-	0.0	-	5.2	-	-	-	10.0	-	0.0	-
76.7 90.0	-	-	9.8	-	4.6	-	-	-	5.0	-	-	-
76.7 100.0	-	-	9.7	-	0.0	-	-	-	-	-	-	-
80.0 70.0	-	-	9.5	-	0.0	-	-	-	9.9	-	0.0	-
80.0 80.0	-	-	20.3	-	9.7	-	-	-	0.0	-	0.0	-
80.0 90.0	-	-	15.5	-	5.2	-	-	-	4.7	-	0.0	-
80.0 100.0	-	-	20.7	-	19.3	-	-	-	-	-	-	-
83.3 42.0	-	-	0.0	-	0.0	-	-	-	4.9	-	0.0	-
83.3 55.0	-	-	10.8	-	21.6	-	-	-	5.2	-	0.0	-
83.3 60.0	-	-	9.6	-	0.0	-	-	-	4.6	-	0.0	-
83.3 70.0	-	-	22.1	-	0.0	-	-	-	0.0	-	0.0	-
83.3 80.0	-	-	0.0	-	0.0	-	-	-	4.7	-	9.8	-
83.3 90.0	-	-	18.9	-	5.0	-	-	-	0.0	-	0.0	-
83.3 100.0	-	-	19.0	-	27.0	-	-	-	5.0	-	0.0	-
83.3 110.0	-	-	-	-	15.1	-	-	-	5.1	-	0.0	-
86.7 35.0	-	-	10.7	-	0.0	-	-	-	0.0	-	0.0	-
86.7 45.0	-	-	0.0	-	9.8	-	-	-	0.0	-	0.0	-
86.7 60.0	-	-	10.2	-	0.0	-	-	-	0.0	-	0.0	-
86.7 70.0	-	-	0.0	-	10.1	-	-	-	0.0	-	9.5	-
86.7 80.0	-	-	0.0	-	10.4	-	-	-	0.0	-	0.0	-
86.7 90.0	-	-	0.0	-	20.6	-	-	-	0.0	-	0.0	-
86.7 100.0	-	-	28.0	-	0.0	-	-	-	14.9	-	-	-
86.7 110.0	-	-	-	-	5.3	-	-	-	4.6	-	4.5	-
90.0 35.0	-	-	10.8	-	0.0	-	-	-	0.0	-	0.0	-
90.0 45.0	-	-	0.0	-	0.0	-	-	-	0.0	-	14.5	-
90.0 53.0	-	-	0.0	-	13.9	-	-	-	0.0	-	8.8	-
90.0 60.0	-	-	0.0	-	26.1	-	-	-	0.0	-	10.6	-

TABLE 4. (cont.)

<i>Protomyctophum crockeri</i> (cont.)												
Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
90.0 70.0	-	-	4.9	-	35.6	-	-	-	15.1	-	24.6	-
90.0 80.0	-	-	0.0	-	0.0	-	-	-	5.1	-	4.9	-
90.0 90.0	-	-	4.8	-	4.8	-	-	-	0.0	-	0.0	-
90.0 100.0	-	-	8.9	-	19.2	-	-	-	5.0	-	9.7	-
90.0 110.0	-	-	0.0	-	0.0	-	-	-	5.1	-	0.0	-
90.0 120.0	-	-	4.8	-	4.8	-	-	-	0.0	-	4.8	-
93.3 28.0	-	-	9.0	0.0	-	-	-	-	0.0	-	0.0	-
93.3 30.0	-	-	21.7	0.0	-	-	-	-	0.0	-	14.8	-
93.3 35.0	-	-	0.0	-	10.5	-	-	-	0.0	-	0.0	-
93.3 40.0	-	-	11.1	-	15.1	-	-	-	21.6	-	0.0	-
93.3 45.0	-	-	9.2	-	0.0	-	-	-	11.2	-	0.0	-
93.3 55.0	-	-	11.8	-	0.0	-	-	-	9.4	-	4.7	-
93.3 60.0	-	-	5.3	-	50.3	-	-	-	0.0	-	4.3	-
93.3 70.0	-	-	10.2	-	0.0	-	-	-	0.0	-	0.0	-
93.3 80.0	-	-	15.1	-	14.6	-	-	-	4.9	-	3.6	-
93.3 90.0	-	-	14.1	-	9.3	-	-	-	5.0	-	0.0	-
93.3 100.0	-	-	19.1	-	4.8	-	-	-	0.0	-	0.0	-
93.3 110.0	-	-	9.5	-	0.0	-	-	-	0.0	-	4.9	-
93.3 120.0	-	-	14.7	-	4.8	-	-	-	0.0	-	14.6	-
<i>Symbolophorus californiensis</i>												
Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
76.7 70.0	-	-	0.0	-	14.9	-	-	-	0.0	-	0.0	-
76.7 80.0	-	-	0.0	-	10.3	-	-	-	0.0	-	0.0	-
76.7 90.0	-	-	4.9	-	4.6	-	-	-	0.0	-	-	-
76.7 100.0	-	-	0.0	-	20.2	-	-	-	-	-	-	-
80.0 80.0	-	-	0.0	-	9.7	-	-	-	0.0	-	0.0	-
80.0 90.0	-	-	0.0	-	31.1	-	-	-	4.7	-	0.0	-
80.0 100.0	-	-	0.0	-	29.0	-	-	-	-	-	-	-
83.3 60.0	-	-	9.6	-	0.0	-	-	-	0.0	-	0.0	-
83.3 70.0	-	-	11.0	-	10.5	-	-	-	0.0	-	0.0	-

TABLE 4. (cont.)

Station	<i>Symbolophorus californiensis</i> (cont.)											
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
83.3 80.0	-	-	0.0	-	10.7	-	-	-	4.7	-	0.0	-
83.3 90.0	-	-	4.7	-	5.0	-	-	-	0.0	-	0.0	-
83.3 100.0	-	-	0.0	-	27.0	-	-	-	0.0	-	0.0	-
83.3 110.0	-	-	-	-	0.0	-	-	-	0.0	-	4.7	-
86.7 70.0	-	-	10.1	-	0.0	-	-	-	0.0	-	0.0	-
86.7 80.0	-	-	0.0	-	10.4	-	-	-	0.0	-	0.0	-
86.7 90.0	-	-	4.7	-	36.1	-	-	-	0.0	-	0.0	-
86.7 100.0	-	-	9.3	-	15.1	-	-	-	0.0	-	-	-
86.7 110.0	-	-	-	-	5.3	-	-	-	9.2	-	0.0	-
90.0 35.0	-	-	10.8	-	0.0	-	-	-	0.0	-	0.0	-
90.0 53.0	-	-	0.0	-	4.6	-	-	-	0.0	-	0.0	-
90.0 60.0	-	-	0.0	-	26.1	-	-	-	0.0	-	0.0	-
90.0 70.0	-	-	4.9	-	20.4	-	-	-	0.0	-	0.0	-
90.0 80.0	-	-	19.5	-	0.0	-	-	-	0.0	-	0.0	-
90.0 90.0	-	-	0.0	-	9.7	-	-	-	0.0	-	0.0	-
90.0 100.0	-	-	8.9	-	0.0	-	-	-	0.0	-	9.7	-
90.0 110.0	-	-	10.2	-	0.0	-	-	-	0.0	-	14.7	-
93.3 30.0	-	-	10.8	0.0	-	-	-	-	0.0	-	0.0	-
93.3 35.0	-	-	12.4	-	0.0	-	-	-	0.0	-	0.0	-
93.3 40.0	-	-	11.1	-	0.0	-	-	-	0.0	-	0.0	-
93.3 50.0	-	-	21.6	-	0.0	-	-	-	0.0	-	0.0	-
93.3 55.0	-	-	0.0	-	0.0	-	-	-	4.7	-	0.0	-
93.3 60.0	-	-	0.0	-	20.1	-	-	-	0.0	-	0.0	-
93.3 70.0	-	-	35.6	-	0.0	-	-	-	0.0	-	0.0	-
93.3 80.0	-	-	35.1	-	19.4	-	-	-	0.0	-	0.0	-
93.3 90.0	-	-	9.4	-	4.6	-	-	-	0.0	-	5.0	-
93.3 100.0	-	-	28.7	-	23.9	-	-	-	30.5	-	0.0	-
93.3 110.0	-	-	0.0	-	14.7	-	-	-	4.9	-	4.9	-

TABLE 4. (cont.)

Station	<i>Tarletonbeania crenularis</i>											
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
76.7 60.0	-	-	0.0	-	10.5	-	-	-	0.0	-	0.0	-
80.0 60.0	-	-	19.5	-	0.0	-	-	-	0.0	-	0.0	-
80.0 70.0	-	-	9.5	-	0.0	-	-	-	0.0	-	0.0	-
83.3 80.0	-	-	0.0	-	10.7	-	-	-	0.0	-	0.0	-
83.3 100.0	-	-	9.5	-	0.0	-	-	-	0.0	-	0.0	-
86.7 45.0	-	-	0.0	-	0.0	-	-	-	9.7	-	0.0	-
86.7 60.0	-	-	0.0	-	0.0	-	-	-	9.9	-	0.0	-
93.3 110.0	-	-	0.0	-	0.0	-	-	-	4.9	-	0.0	-
<i>Trachipterus altivelis</i>												
Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
86.7 90.0	-	-	0.0	-	0.0	-	-	-	4.7	-	0.0	-
90.0 80.0	-	-	0.0	-	5.2	-	-	-	0.0	-	0.0	-
93.3 60.0	-	-	0.0	-	10.1	-	-	-	0.0	-	0.0	-
<i>Merluccius productus</i>												
Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
76.7 49.0	-	-	4.7	-	0.0	-	-	-	0.0	-	0.0	-
76.7 51.0	-	-	94.8	-	0.0	-	-	-	0.0	-	5.1	-
76.7 55.0	-	-	259.7	-	0.0	-	-	-	0.0	-	0.0	-
76.7 60.0	-	-	80.4	-	0.0	-	-	-	0.0	-	0.0	-
76.7 70.0	-	-	177.9	-	0.0	-	-	-	0.0	-	0.0	-
76.7 80.0	-	-	59.4	-	0.0	-	-	-	0.0	-	0.0	-
76.7 90.0	-	-	4.9	-	9.3	-	-	-	0.0	-	-	-
80.0 51.0	-	-	0.0	-	8.7	-	-	-	0.0	-	0.0	-
80.0 55.0	-	-	54.1	-	0.0	-	-	-	0.0	-	0.0	-
80.0 60.0	-	-	58.6	-	0.0	-	-	-	0.0	-	0.0	-
80.0 70.0	-	-	1491.5	-	0.0	-	-	-	0.0	-	0.0	-
80.0 80.0	-	-	142.1	-	0.0	-	-	-	0.0	-	0.0	-
80.0 90.0	-	-	67.2	-	0.0	-	-	-	0.0	-	0.0	-
80.0 100.0	-	-	41.5	-	0.0	-	-	-	-	-	-	-
81.8 46.9	-	-	188.9	-	9.9	-	-	-	0.0	-	-	4.6

TABLE 4. (cont.)

Station	<i>Merluccius productus</i> (cont.)											
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
83.3 42.0	-	-	38.8	-	9.9	-	-	-	0.0	-	0.0	-
83.3 51.0	-	-	101.6	-	0.0	-	-	-	0.0	-	0.0	-
83.3 55.0	-	-	97.1	-	0.0	-	-	-	0.0	-	0.0	-
83.3 60.0	-	-	461.3	-	0.0	-	-	-	0.0	-	0.0	-
83.3 70.0	-	-	287.2	-	0.0	-	-	-	0.0	-	0.0	-
83.3 80.0	-	-	23.1	-	10.7	-	-	-	0.0	-	0.0	-
83.3 90.0	-	-	528.6	-	0.0	-	-	-	0.0	-	0.0	-
83.3 100.0	-	-	979.3	-	0.0	-	-	-	0.0	-	0.0	-
86.7 35.0	-	-	42.8	-	0.0	-	-	-	0.0	-	0.0	-
86.7 39.5	-	-	306.4	-	20.9	-	-	-	0.0	-	5.1	-
86.7 45.0	-	-	358.7	-	19.6	-	-	-	0.0	-	0.0	-
86.7 55.0	-	-	86.5	-	0.0	-	-	-	0.0	-	0.0	-
86.7 60.0	-	-	490.7	-	0.0	-	-	-	0.0	-	4.2	-
86.7 70.0	-	-	404.2	-	20.2	-	-	-	0.0	-	0.0	-
86.7 90.0	-	-	168.1	-	0.0	-	-	-	0.0	-	0.0	-
86.7 100.0	-	-	392.0	-	0.0	-	-	-	0.0	-	-	-
90.0 30.0	-	-	0.0	-	10.0	-	-	-	0.0	-	5.1	-
90.0 35.0	-	-	21.6	-	36.9	-	-	-	0.0	-	5.3	-
90.0 45.0	-	-	195.3	-	0.0	-	-	-	0.0	-	0.0	-
90.0 53.0	-	-	93.4	-	9.3	-	-	-	0.0	-	13.1	-
90.0 60.0	-	-	162.0	-	0.0	-	-	-	0.0	-	0.0	-
90.0 70.0	-	-	4.9	-	0.0	-	-	-	0.0	-	0.0	-
90.0 80.0	-	-	0.0	-	26.0	-	-	-	0.0	-	0.0	-
90.0 90.0	-	-	118.8	-	0.0	-	-	-	0.0	-	0.0	-
93.3 26.7	-	-	9.2	9.0	-	-	-	-	0.0	-	0.0	-
93.3 28.0	-	-	0.0	20.0	-	-	-	-	0.0	-	0.0	-
93.3 30.0	-	-	43.4	9.9	-	-	-	-	0.0	-	0.0	-
93.3 35.0	-	-	37.1	-	0.0	-	-	-	0.0	-	0.0	-
93.3 40.0	-	-	22.2	-	0.0	-	-	-	0.0	-	0.0	-
93.3 45.0	-	-	83.1	-	0.0	-	-	-	0.0	-	0.0	-

TABLE 4. (cont.)

		<i>Merluccius productus</i> (cont.)											
Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
93.3	50.0	-	97.0	-	8.6	-	-	-	0.0	-	0.0	-	
93.3	55.0	-	141.4	-	0.0	-	-	-	0.0	-	0.0	-	
93.3	60.0	-	5.3	-	0.0	-	-	-	0.0	-	0.0	-	
93.3	70.0	-	0.0	-	5.0	-	-	-	0.0	-	0.0	-	
		<i>Ophidion scrippsae</i>											
Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
86.7	33.0	-	0.0	-	0.0	-	-	-	5.0	-	0.0	-	
		<i>Brosmophycis marginata</i>											
Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
80.0	55.0	-	0.0	-	52.3	-	-	-	0.0	-	0.0	-	
		<i>Cataetx rubrirostris</i>											
Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
80.0	55.0	-	0.0	-	10.5	-	-	-	0.0	-	0.0	-	
81.8	46.9	-	0.0	-	9.9	-	-	-	0.0	-	0.0	-	
83.3	42.0	-	0.0	-	9.9	-	-	-	0.0	-	0.0	-	
86.7	60.0	-	0.0	-	11.0	-	-	-	0.0	-	0.0	-	
		<i>Oneirodidae</i>											
Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
86.7	100.0	-	0.0	-	0.0	-	-	-	5.0	-	-	-	
90.0	120.0	-	0.0	-	0.0	-	-	-	4.8	-	0.0	-	
93.3	110.0	-	0.0	-	0.0	-	-	-	4.9	-	0.0	-	
		<i>Oneirodes</i> spp.											
Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
83.3	100.0	-	0.0	-	0.0	-	-	-	0.0	-	4.5	-	
90.0	80.0	-	0.0	-	0.0	-	-	-	0.0	-	4.9	-	
		<i>Gigantactis</i> spp.											
Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
86.7	100.0	-	0.0	-	0.0	-	-	-	5.0	-	-	-	
86.7	110.0	-	-	-	0.0	-	-	-	4.6	-	0.0	-	
90.0	120.0	-	0.0	-	0.0	-	-	-	4.8	-	0.0	-	
93.3	110.0	-	0.0	-	0.0	-	-	-	4.9	-	0.0	-	

TABLE 4. (cont.)

<i>Atherinopsis californiensis</i>												
Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
90.0 28.0	-	-	0.0	-	0.0	-	-	-	0.0	-	4.9	-
<i>Cololabis satra</i>												
Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
76.7 80.0	-	-	0.0	-	0.0	-	-	-	0.0	-	4.6	-
83.3 100.0	-	-	0.0	-	0.0	-	-	-	5.0	-	0.0	-
<i>Melamphaes</i> spp.												
Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
80.0 80.0	-	-	0.0	-	9.7	-	-	-	0.0	-	4.5	-
80.0 90.0	-	-	0.0	-	25.9	-	-	-	0.0	-	0.0	-
83.3 90.0	-	-	0.0	-	15.0	-	-	-	0.0	-	0.0	-
83.3 100.0	-	-	0.0	-	5.4	-	-	-	0.0	-	4.5	-
83.3 110.0	-	-	-	-	5.0	-	-	-	0.0	-	0.0	-
86.7 60.0	-	-	0.0	-	11.0	-	-	-	0.0	-	0.0	-
86.7 70.0	-	-	0.0	-	10.1	-	-	-	0.0	-	0.0	-
86.7 100.0	-	-	0.0	-	5.0	-	-	-	0.0	-	-	-
93.3 80.0	-	-	5.0	-	0.0	-	-	-	0.0	-	0.0	-
93.3 90.0	-	-	0.0	-	0.0	-	-	-	0.0	-	5.0	-
93.3 120.0	-	-	4.9	-	0.0	-	-	-	0.0	-	0.0	-
<i>Melamphaes lugubris</i>												
Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
76.7 70.0	-	-	0.0	-	5.0	-	-	-	0.0	-	0.0	-
76.7 90.0	-	-	4.9	-	4.6	-	-	-	0.0	-	-	-
80.0 100.0	-	-	0.0	-	9.7	-	-	-	-	-	-	-
83.3 70.0	-	-	0.0	-	10.5	-	-	-	0.0	-	0.0	-
83.3 80.0	-	-	13.9	-	0.0	-	-	-	0.0	-	0.0	-
83.3 90.0	-	-	4.7	-	0.0	-	-	-	0.0	-	0.0	-
83.3 100.0	-	-	0.0	-	0.0	-	-	-	5.0	-	0.0	-
86.7 70.0	-	-	10.1	-	0.0	-	-	-	0.0	-	0.0	-
86.7 80.0	-	-	0.0	-	20.8	-	-	-	0.0	-	0.0	-
86.7 90.0	-	-	4.7	-	0.0	-	-	-	0.0	-	0.0	-

TABLE 4. (cont.)

		<i>Melamphaes lugubris</i> (cont.)											
Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
86.7 100.0	-	-	0.0	-	0.0	-	-	-	5.0	-	-	-	
90.0 53.0	-	-	0.0	-	4.6	-	-	-	0.0	-	0.0	-	
90.0 80.0	-	-	0.0	-	5.2	-	-	-	0.0	-	9.8	-	
90.0 90.0	-	-	4.8	-	4.8	-	-	-	0.0	-	0.0	-	
90.0 100.0	-	-	8.9	-	0.0	-	-	-	0.0	-	0.0	-	
90.0 110.0	-	-	5.1	-	0.0	-	-	-	0.0	-	0.0	-	
90.0 120.0	-	-	0.0	-	0.0	-	-	-	0.0	-	4.8	-	
93.3 60.0	-	-	0.0	-	10.1	-	-	-	0.0	-	0.0	-	
93.3 80.0	-	-	0.0	-	4.9	-	-	-	4.9	-	0.0	-	
93.3 90.0	-	-	4.7	-	0.0	-	-	-	0.0	-	0.0	-	
93.3 100.0	-	-	4.8	-	0.0	-	-	-	0.0	-	0.0	-	
		<i>Melamphaes parvus</i>											
Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
80.0 80.0	-	-	10.1	-	0.0	-	-	-	0.0	-	0.0	-	
		<i>Melamphaes similis</i>											
Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
86.7 110.0	-	-	-	-	0.0	-	-	-	4.6	-	0.0	-	
90.0 110.0	-	-	0.0	-	0.0	-	-	-	5.1	-	0.0	-	
93.3 70.0	-	-	0.0	-	5.0	-	-	-	0.0	-	0.0	-	
		<i>Poromitra</i> spp.											
Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
80.0 60.0	-	-	9.8	-	0.0	-	-	-	0.0	-	0.0	-	
90.0 120.0	-	-	0.0	-	19.2	-	-	-	0.0	-	0.0	-	
		<i>Poromitra crassiceps</i>											
Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
83.3 100.0	-	-	0.0	-	0.0	-	-	-	5.0	-	0.0	-	
86.7 110.0	-	-	-	-	10.7	-	-	-	0.0	-	0.0	-	
93.3 70.0	-	-	5.1	-	0.0	-	-	-	0.0	-	0.0	-	
		<i>Poromitra megalops</i>											
Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
93.3 70.0	-	-	0.0	-	5.0	-	-	-	0.0	-	0.0	-	

TABLE 4. (cont.)

Station	<i>Scopeloberyx robustus</i>											
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
93.3 100.0	-	-	0.0	-	0.0	-	-	-	5.1	-	0.0	-
Station	<i>Scopelogadus bispinosus</i>											
80.0 80.0	-	-	0.0	-	0.0	-	-	-	5.0	-	0.0	-
83.3 100.0	-	-	0.0	-	0.0	-	-	-	5.0	-	0.0	-
86.7 45.0	-	-	0.0	-	0.0	-	-	-	9.7	-	0.0	-
90.0 80.0	-	-	0.0	-	0.0	-	-	-	5.1	-	0.0	-
90.0 100.0	-	-	0.0	-	0.0	-	-	-	39.9	-	4.8	-
90.0 110.0	-	-	0.0	-	0.0	-	-	-	5.1	-	4.9	-
90.0 120.0	-	-	0.0	-	4.8	-	-	-	0.0	-	0.0	-
93.3 80.0	-	-	0.0	-	4.9	-	-	-	0.0	-	3.6	-
93.3 90.0	-	-	0.0	-	0.0	-	-	-	5.0	-	0.0	-
93.3 100.0	-	-	0.0	-	0.0	-	-	-	5.1	-	0.0	-
Station	<i>Sebastes spp.</i>											
76.7 49.0	-	-	52.1	-	0.0	-	-	-	0.0	-	0.0	-
76.7 51.0	-	-	28.4	-	70.0	-	-	-	18.7	-	10.2	-
76.7 55.0	-	-	67.3	-	0.0	-	-	-	0.0	-	5.0	-
76.7 60.0	-	-	53.6	-	21.0	-	-	-	0.0	-	0.0	-
80.0 51.0	-	-	19.2	-	0.0	-	-	-	0.0	-	13.4	-
80.0 55.0	-	-	54.1	-	0.0	-	-	-	0.0	-	3.7	-
80.0 60.0	-	-	9.8	-	0.0	-	-	-	0.0	-	4.9	-
80.0 70.0	-	-	9.5	-	139.0	-	-	-	0.0	-	9.6	-
81.8 46.9	-	-	298.3	-	39.8	-	-	-	0.0	-	32.3	-
83.3 40.6	-	-	0.0	-	0.0	-	-	-	0.0	-	15.7	-
83.3 42.0	-	-	126.2	-	0.0	-	-	-	0.0	-	0.0	-
83.3 51.0	-	-	345.6	-	44.5	-	-	-	4.3	-	8.7	-
83.3 55.0	-	-	129.4	-	97.2	-	-	-	25.8	-	39.7	-
83.3 60.0	-	-	28.8	-	250.9	-	-	-	0.0	-	8.8	-
83.3 70.0	-	-	11.0	-	10.5	-	-	-	0.0	-	0.0	-

TABLE 4. (cont.)

Station	<i>Sebastes</i> spp. (cont.)											
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
83.3 80.0	-	-	4.6	-	0.0	-	-	-	0.0	-	0.0	-
83.3 90.0	-	-	0.0	-	20.0	-	-	-	0.0	-	0.0	-
83.3 100.0	-	-	9.5	-	0.0	-	-	-	0.0	-	0.0	-
86.7 33.0	-	-	48.7	-	17.5	-	-	-	0.0	-	0.0	-
86.7 35.0	-	-	299.6	-	30.9	-	-	-	0.0	-	0.0	-
86.7 39.5	-	-	30.6	-	20.9	-	-	-	0.0	-	10.3	-
86.7 45.0	-	-	89.7	-	39.2	-	-	-	0.0	-	27.6	-
86.7 50.0	-	-	473.2	-	472.0	-	-	-	6.7	-	65.7	-
86.7 55.0	-	-	854.6	-	20.1	-	-	-	0.0	-	0.0	-
86.7 60.0	-	-	71.6	-	165.1	-	-	-	9.9	-	0.0	-
86.7 70.0	-	-	10.1	-	0.0	-	-	-	10.0	-	0.0	-
86.7 90.0	-	-	9.3	-	0.0	-	-	-	0.0	-	0.0	-
90.0 28.0	-	-	49.8	-	0.0	-	-	-	4.3	-	0.0	-
90.0 30.0	-	-	0.0	-	10.0	-	-	-	0.0	-	0.0	-
90.0 35.0	-	-	86.4	-	92.2	-	-	-	5.0	-	5.3	-
90.0 37.0	-	-	80.9	-	37.0	-	-	-	0.0	-	0.0	-
90.0 45.0	-	-	61.7	-	22.8	-	-	-	0.0	-	24.2	-
90.0 53.0	-	-	457.7	-	50.9	-	-	-	0.0	-	61.3	-
90.0 60.0	-	-	19.1	-	0.0	-	-	-	0.0	-	0.0	-
93.3 26.7	-	-	27.7	18.0	-	-	-	-	0.0	-	4.3	-
93.3 28.0	-	-	35.9	10.0	-	-	-	-	10.4	-	0.0	-
93.3 30.0	-	-	43.4	0.0	-	-	-	-	11.6	-	0.0	-
93.3 35.0	-	-	98.8	-	31.4	-	-	-	0.0	-	0.0	-
93.3 40.0	-	-	11.1	-	10.0	-	-	-	0.0	-	4.9	-
93.3 45.0	-	-	0.0	-	63.1	-	-	-	0.0	-	0.0	-
93.3 50.0	-	-	32.3	-	103.2	-	-	-	0.0	-	0.0	-
93.3 55.0	-	-	35.4	-	96.8	-	-	-	0.0	-	0.0	-
93.3 60.0	-	-	0.0	-	20.1	-	-	-	0.0	-	0.0	-
Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
76.7 55.0	-	-	9.6	-	0.0	-	-	-	0.0	-	0.0	-

Sebastes aurora

TABLE 4. (cont.)

		<i>Sebastes diploproa</i>											
Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
90.0	70.0	-	0.0	-	5.1	-	-	-	0.0	-	0.0	-	
90.0	80.0	-	0.0	-	5.2	-	-	-	0.0	-	0.0	-	
93.3	55.0	-	11.8	-	0.0	-	-	-	0.0	-	0.0	-	
		<i>Sebastes jordani</i>											
Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
80.0	51.0	-	4.8	-	0.0	-	-	-	0.0	-	0.0	-	
81.8	46.9	-	29.8	-	0.0	-	-	-	0.0	-	0.0	-	
83.3	42.0	-	349.6	-	0.0	-	-	-	0.0	-	0.0	-	
83.3	51.0	-	213.5	-	0.0	-	-	-	0.0	-	0.0	-	
83.3	60.0	-	0.0	-	10.0	-	-	-	0.0	-	0.0	-	
86.7	33.0	-	4.9	-	0.0	-	-	-	0.0	-	0.0	-	
86.7	35.0	-	96.3	-	0.0	-	-	-	0.0	-	0.0	-	
86.7	39.5	-	20.4	-	0.0	-	-	-	0.0	-	0.0	-	
86.7	45.0	-	39.9	-	0.0	-	-	-	0.0	-	0.0	-	
86.7	50.0	-	11.3	-	0.0	-	-	-	0.0	-	0.0	-	
86.7	55.0	-	10.8	-	0.0	-	-	-	0.0	-	0.0	-	
90.0	28.0	-	14.9	-	0.0	-	-	-	0.0	-	0.0	-	
90.0	35.0	-	151.2	-	0.0	-	-	-	0.0	-	0.0	-	
90.0	37.0	-	91.0	-	0.0	-	-	-	0.0	-	0.0	-	
90.0	45.0	-	20.6	-	0.0	-	-	-	0.0	-	0.0	-	
90.0	53.0	-	18.7	-	0.0	-	-	-	0.0	-	0.0	-	
93.3	26.7	-	27.7	0.0	-	-	-	-	0.0	-	0.0	-	
93.3	28.0	-	44.9	0.0	-	-	-	-	0.0	-	0.0	-	
93.3	30.0	-	21.7	0.0	-	-	-	-	0.0	-	0.0	-	
93.3	35.0	-	12.4	-	0.0	-	-	-	0.0	-	0.0	-	
93.3	50.0	-	10.8	-	0.0	-	-	-	0.0	-	0.0	-	
93.3	55.0	-	23.6	-	0.0	-	-	-	0.0	-	0.0	-	
		<i>Sebastes paucispinis</i>											
Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
76.7	60.0	-	8.9	-	0.0	-	-	-	0.0	-	0.0	-	

TABLE 4. (cont.)

		<i>Sebastes paucispinis</i> (cont.)											
Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
76.7 70.0	-	-	8.9	-	0.0	-	-	-	0.0	-	0.0	-	
80.0 55.0	-	-	21.6	-	0.0	-	-	-	0.0	-	0.0	-	
83.3 51.0	-	-	10.2	-	0.0	-	-	-	0.0	-	0.0	-	
83.3 60.0	-	-	0.0	-	10.0	-	-	-	0.0	-	0.0	-	
86.7 50.0	-	-	0.0	-	9.8	-	-	-	0.0	-	0.0	-	
86.7 55.0	-	-	0.0	-	10.0	-	-	-	0.0	-	0.0	-	
86.7 60.0	-	-	10.2	-	0.0	-	-	-	0.0	-	0.0	-	
90.0 53.0	-	-	46.7	-	0.0	-	-	-	0.0	-	0.0	-	
		<i>Sebastolobus</i> spp.											
Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
83.3 60.0	-	-	9.6	-	0.0	-	-	-	0.0	-	0.0	-	
90.0 80.0	-	-	0.0	-	5.2	-	-	-	0.0	-	0.0	-	
		<i>Sebastolobus alascanus</i>											
Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
86.7 55.0	-	-	0.0	-	0.0	-	-	-	9.0	-	0.0	-	
86.7 70.0	-	-	0.0	-	0.0	-	-	-	10.0	-	0.0	-	
		<i>Sebastolobus altivelis</i>											
Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
80.0 55.0	-	-	10.8	-	0.0	-	-	-	0.0	-	0.0	-	
80.0 60.0	-	-	0.0	-	0.0	-	-	-	4.8	-	0.0	-	
86.7 55.0	-	-	0.0	-	0.0	-	-	-	18.1	-	0.0	-	
90.0 45.0	-	-	0.0	-	0.0	-	-	-	8.4	-	0.0	-	
90.0 53.0	-	-	0.0	-	0.0	-	-	-	20.7	-	0.0	-	
		<i>Zaniolepis latipinnis</i>											
Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
80.0 51.0	-	-	0.0	-	0.0	-	-	-	0.0	-	4.5	-	
80.0 55.0	-	-	0.0	-	0.0	-	-	-	0.0	-	7.3	-	
81.8 46.9	-	-	0.0	-	0.0	-	-	-	9.7	-	0.0	-	
83.3 42.0	-	-	9.7	-	0.0	-	-	-	0.0	-	0.0	-	
83.3 51.0	-	-	0.0	-	0.0	-	-	-	4.3	-	0.0	-	
83.3 55.0	-	-	0.0	-	0.0	-	-	-	0.0	-	4.4	-	

TABLE 4. (cont.)

		<i>Zaniopsis latipinnis</i> (cont.)											
Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
90.0 53.0	-	-	9.3	-	0.0	-	-	-	0.0	-	0.0	-	
		<i>Ophiodon elongatus</i>											
Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
81.8 46.9	-	-	9.9	-	0.0	-	-	-	0.0	-	0.0	-	
83.3 51.0	-	-	10.2	-	0.0	-	-	-	0.0	-	0.0	-	
		<i>Artedius creaseri</i>											
Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
81.8 46.9	-	-	19.9	-	0.0	-	-	-	0.0	-	0.0	-	
83.3 51.0	-	-	20.3	-	0.0	-	-	-	0.0	-	0.0	-	
90.0 28.0	-	-	5.0	-	0.0	-	-	-	0.0	-	0.0	-	
93.3 26.7	-	-	0.0	9.0	-	-	-	-	0.0	-	0.0	-	
		<i>Artedius lateralis</i>											
Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
83.3 51.0	-	-	10.2	-	0.0	-	-	-	0.0	-	0.0	-	
		<i>Icelinus</i> spp.											
Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
83.3 51.0	-	-	0.0	-	4.9	-	-	-	0.0	-	0.0	-	
86.7 33.0	-	-	0.0	-	8.8	-	-	-	0.0	-	0.0	-	
		<i>Icelinus quadriseriatus</i>											
Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
83.3 51.0	-	-	10.2	-	0.0	-	-	-	13.0	-	0.0	-	
93.3 26.7	-	-	0.0	27.0	-	-	-	-	0.0	-	0.0	-	
		<i>Orthonopias triacis</i>											
Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
83.3 51.0	-	-	10.2	-	0.0	-	-	-	0.0	-	0.0	-	
		<i>Scorpaenichthys marmoratus</i>											
Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
76.7 60.0	-	-	8.9	-	0.0	-	-	-	0.0	-	0.0	-	
93.3 100.0	-	-	0.0	-	0.0	-	-	-	5.1	-	0.0	-	

TABLE 4. (cont.)

Station	<i>Bathyanogon pentacanthus</i>											
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
76.7 49.0	-	-	4.7	-	0.0	-	-	-	0.0	-	0.0	-
<i>Paralabrax</i> spp.												
Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
83.3 40.6	-	-	0.0	-	0.0	-	-	-	8.8	-	0.0	-
<i>Howella</i> spp.												
Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
83.3 60.0	-	-	0.0	-	0.0	-	-	-	4.6	-	0.0	-
83.3 110.0	-	-	-	-	0.0	-	-	-	5.1	-	0.0	-
90.0 110.0	-	-	0.0	-	0.0	-	-	-	5.1	-	0.0	-
93.3 80.0	-	-	0.0	-	0.0	-	-	-	4.9	-	0.0	-
<i>Trachurus symmetricus</i>												
Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
76.7 70.0	-	-	0.0	-	69.6	-	-	-	0.0	-	0.0	-
76.7 80.0	-	-	9.9	-	0.0	-	-	-	0.0	-	0.0	-
76.7 90.0	-	-	0.0	-	13.9	-	-	-	0.0	-	-	-
76.7 100.0	-	-	136.4	-	171.7	-	-	-	-	-	-	-
80.0 80.0	-	-	0.0	-	82.8	-	-	-	0.0	-	0.0	-
80.0 90.0	-	-	0.0	-	46.6	-	-	-	0.0	-	0.0	-
80.0 100.0	-	-	31.1	-	285.0	-	-	-	-	-	-	-
83.3 70.0	-	-	22.1	-	0.0	-	-	-	0.0	-	0.0	-
83.3 90.0	-	-	0.0	-	89.8	-	-	-	0.0	-	0.0	-
83.3 100.0	-	-	0.0	-	70.2	-	-	-	0.0	-	0.0	-
83.3 110.0	-	-	-	-	35.3	-	-	-	0.0	-	0.0	-
86.7 60.0	-	-	10.2	-	0.0	-	-	-	0.0	-	0.0	-
86.7 70.0	-	-	20.2	-	0.0	-	-	-	0.0	-	0.0	-
86.7 80.0	-	-	9.9	-	52.0	-	-	-	0.0	-	0.0	-
86.7 100.0	-	-	0.0	-	35.2	-	-	-	5.0	-	-	-
86.7 110.0	-	-	-	-	224.3	-	-	-	0.0	-	0.0	-
90.0 35.0	-	-	10.8	-	0.0	-	-	-	0.0	-	0.0	-
90.0 60.0	-	-	9.5	-	0.0	-	-	-	0.0	-	0.0	-

TABLE 4. (cont.)

		<i>Trachurus symmetricus</i> (cont.)											
Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
90.0	70.0	-	131.2	-	0.0	-	-	-	0.0	-	0.0	-	
90.0	80.0	-	14.6	-	0.0	-	-	-	0.0	-	0.0	-	
93.3	60.0	-	21.2	-	0.0	-	-	-	0.0	-	0.0	-	
93.3	70.0	-	25.4	-	0.0	-	-	-	0.0	-	0.0	-	
93.3	80.0	-	100.4	-	24.3	-	-	-	4.9	-	0.0	-	
93.3	90.0	-	23.5	-	0.0	-	-	-	15.0	-	0.0	-	
93.3	100.0	-	14.3	-	9.6	-	-	-	0.0	-	0.0	-	
93.3	110.0	-	0.0	-	14.7	-	-	-	0.0	-	0.0	-	
93.3	120.0	-	0.0	-	9.7	-	-	-	0.0	-	0.0	-	
<i>Brama japonica</i>													
Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
93.3	100.0	-	0.0	-	0.0	-	-	-	5.1	-	0.0	-	
93.3	110.0	-	0.0	-	0.0	-	-	-	9.7	-	0.0	-	
<i>Caristius maderensis</i>													
Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
93.3	80.0	-	0.0	-	0.0	-	-	-	4.9	-	0.0	-	
<i>Genyonemus lineatus</i>													
Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
76.7	49.0	-	0.0	-	0.0	-	-	-	9.4	-	0.0	-	
80.0	51.0	-	9.6	-	0.0	-	-	-	0.0	-	8.9	-	
80.0	55.0	-	0.0	-	10.5	-	-	-	0.0	-	0.0	-	
83.3	42.0	-	48.6	-	0.0	-	-	-	0.0	-	0.0	-	
86.7	33.0	-	365.3	-	0.0	-	-	-	0.0	-	0.0	-	
86.7	35.0	-	117.7	-	0.0	-	-	-	0.0	-	0.0	-	
90.0	28.0	-	5.0	-	0.0	-	-	-	0.0	-	29.3	-	
93.3	30.0	-	10.8	0.0	-	-	-	-	0.0	-	0.0	-	
<i>Seriphus politus</i>													
Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
83.3	40.6	-	0.0	-	4.7	-	-	-	0.0	-	0.0	-	

TABLE 4. (cont.)

		<i>Chromis punctipinnis</i>											
Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
81.8	46.9	-	0.0	-	0.0	-	-	-	9.7	-	0.0	-	
83.3	40.6	-	0.0	-	0.0	-	-	-	75.0	-	0.0	-	
83.3	42.0	-	0.0	-	0.0	-	-	-	9.7	-	0.0	-	
83.3	51.0	-	0.0	-	0.0	-	-	-	8.7	-	0.0	-	
83.3	55.0	-	0.0	-	0.0	-	-	-	5.2	-	0.0	-	
86.7	33.0	-	0.0	-	0.0	-	-	-	15.0	-	0.0	-	
86.7	35.0	-	0.0	-	0.0	-	-	-	10.6	-	0.0	-	
86.7	60.0	-	0.0	-	0.0	-	-	-	9.9	-	0.0	-	
90.0	28.0	-	0.0	-	0.0	-	-	-	91.1	-	4.9	-	
90.0	30.0	-	0.0	-	0.0	-	-	-	5.1	-	0.0	-	
93.3	28.0	-	0.0	0.0	-	-	-	-	31.2	-	0.0	-	
		<i>Oxyjulis californica</i>											
Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
76.7	55.0	-	9.6	-	0.0	-	-	-	0.0	-	0.0	-	
76.7	70.0	-	0.0	-	0.0	-	-	-	10.6	-	0.0	-	
81.8	46.9	-	0.0	-	0.0	-	-	-	9.7	-	0.0	-	
83.3	40.6	-	0.0	-	0.0	-	-	-	8.8	-	0.0	-	
83.3	42.0	-	0.0	-	9.9	-	-	-	29.2	-	0.0	-	
83.3	51.0	-	20.3	-	0.0	-	-	-	0.0	-	0.0	-	
83.3	60.0	-	0.0	-	10.0	-	-	-	0.0	-	0.0	-	
83.3	70.0	-	0.0	-	0.0	-	-	-	9.7	-	0.0	-	
86.7	45.0	-	0.0	-	9.8	-	-	-	0.0	-	0.0	-	
86.7	60.0	-	0.0	-	11.0	-	-	-	0.0	-	0.0	-	
86.7	70.0	-	0.0	-	0.0	-	-	-	20.0	-	0.0	-	
90.0	53.0	-	0.0	-	0.0	-	-	-	10.4	-	0.0	-	
93.3	28.0	-	0.0	0.0	-	-	-	-	10.4	-	0.0	-	
		<i>Zoarcoidei</i>											
Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
80.0	60.0	-	0.0	-	0.0	-	-	-	0.0	-	4.9	-	

TABLE 4. (cont.)

Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
<i>Rathbunella</i> spp.												
83.3 51.0	-	-	50.8	-	0.0	-	-	-	0.0	-	0.0	-
86.7 50.0	-	-	11.3	-	9.8	-	-	-	0.0	-	0.0	-
90.0 28.0	-	-	0.0	-	10.0	-	-	-	0.0	-	0.0	-
<i>Ronquilus jordani</i>												
Station 76.7 49.0	Jan. -	Feb. -	Mar. 0.0	Apr. -	May 4.7	June -	July -	Aug. -	Sep. 0.0	Oct. -	Nov. 0.0	Dec. -
Stichaeidae												
Station 80.0 55.0	Jan. -	Feb. -	Mar. 0.0	Apr. -	May 0.0	June -	July -	Aug. -	Sep. 0.0	Oct. -	Nov. 3.7	Dec. -
83.3 51.0	-	-	0.0	-	0.0	-	-	-	0.0	-	4.3	-
<i>Anoplarchus purpureus</i>												
Station 83.3 51.0	Jan. -	Feb. -	Mar. 10.2	Apr. -	May 0.0	June -	July -	Aug. -	Sep. 0.0	Oct. -	Nov. 0.0	Dec. -
86.7 50.0	-	-	11.3	-	0.0	-	-	-	0.0	-	0.0	-
<i>Plectobranthus evides</i>												
Station 93.3 30.0	Jan. -	Feb. -	Mar. 21.7	Apr. 0.0	May -	June -	July -	Aug. -	Sep. 0.0	Oct. -	Nov. 0.0	Dec. -
<i>Chiasmodon niger</i>												
Station 83.3 100.0	Jan. -	Feb. -	Mar. 0.0	Apr. -	May 0.0	June -	July -	Aug. -	Sep. 5.0	Oct. -	Nov. 0.0	Dec. -
90.0 70.0	-	-	9.7	-	0.0	-	-	-	0.0	-	0.0	-
90.0 80.0	-	-	4.9	-	0.0	-	-	-	5.1	-	0.0	-
90.0 100.0	-	-	0.0	-	4.8	-	-	-	0.0	-	0.0	-
90.0 110.0	-	-	5.1	-	0.0	-	-	-	0.0	-	0.0	-
90.0 120.0	-	-	0.0	-	9.6	-	-	-	0.0	-	0.0	-
<i>Cryptotrema corallinum</i>												
Station 86.7 50.0	Jan. -	Feb. -	Mar. 0.0	Apr. -	May 0.0	June -	July -	Aug. -	Sep. 0.0	Oct. -	Nov. 9.4	Dec. -
<i>Neoclinus stephensae</i>												
Station 86.7 50.0	Jan. -	Feb. -	Mar. 11.3	Apr. -	May 0.0	June -	July -	Aug. -	Sep. 0.0	Oct. -	Nov. 0.0	Dec. -

TABLE 4. (cont.)

		<i>Hypsoiblennius gentilis</i>											
Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
80.0 51.0	-	-	4.8	-	0.0	-	-	-	0.0	-	0.0	-	
		<i>Hypsoiblennius jenkinsi</i>											
Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
86.7 33.0	-	-	0.0	-	0.0	-	-	-	0.0	-	5.1	-	
90.0 28.0	-	-	0.0	-	0.0	-	-	-	13.0	-	0.0	-	
		<i>Icosteus aenigmaticus</i>											
Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
83.3 70.0	-	-	11.0	-	0.0	-	-	-	0.0	-	0.0	-	
		<i>Coryphopterus nicholsii</i>											
Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
76.7 51.0	-	-	0.0	-	0.0	-	-	-	0.0	-	5.1	-	
76.7 55.0	-	-	0.0	-	0.0	-	-	-	9.9	-	0.0	-	
76.7 90.0	-	-	0.0	-	4.6	-	-	-	0.0	-	-	-	
80.0 55.0	-	-	0.0	-	10.5	-	-	-	0.0	-	0.0	-	
81.8 46.9	-	-	0.0	-	19.9	-	-	-	0.0	-	0.0	-	
83.3 42.0	-	-	9.7	-	0.0	-	-	-	0.0	-	0.0	-	
86.7 39.5	-	-	0.0	-	10.5	-	-	-	0.0	-	0.0	-	
86.7 55.0	-	-	0.0	-	10.0	-	-	-	0.0	-	0.0	-	
86.7 60.0	-	-	0.0	-	11.0	-	-	-	0.0	-	0.0	-	
90.0 80.0	-	-	0.0	-	5.2	-	-	-	0.0	-	0.0	-	
		<i>Lepidogobius lepidus</i>											
Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
80.0 51.0	-	-	0.0	-	0.0	-	-	-	0.0	-	4.5	-	
86.7 33.0	-	-	29.2	-	0.0	-	-	-	0.0	-	0.0	-	
90.0 28.0	-	-	0.0	-	0.0	-	-	-	0.0	-	78.2	-	
		<i>Lythrypnus dalli</i>											
Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
81.8 46.9	-	-	0.0	-	0.0	-	-	-	9.7	-	0.0	-	
83.3 40.6	-	-	0.0	-	0.0	-	-	-	4.4	-	0.0	-	
83.3 51.0	-	-	0.0	-	0.0	-	-	-	4.3	-	0.0	-	

TABLE 4. (cont.)

		<i>Lythrypnus dalli</i> (cont.)											
Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
86.7	50.0	-	0.0	-	0.0	-	-	-	3.4	-	0.0	-	
90.0	28.0	-	0.0	-	0.0	-	-	-	4.3	-	0.0	-	
		<i>Scomber japonicus</i>											
Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
76.7	70.0	-	0.0	-	347.9	-	-	-	0.0	-	0.0	-	
76.7	80.0	-	0.0	-	5.2	-	-	-	0.0	-	0.0	-	
76.7	90.0	-	0.0	-	97.2	-	-	-	0.0	-	-	-	
76.7	100.0	-	19.5	-	0.0	-	-	-	-	-	-	-	
80.0	80.0	-	0.0	-	394.5	-	-	-	0.0	-	0.0	-	
80.0	90.0	-	0.0	-	67.3	-	-	-	0.0	-	0.0	-	
80.0	100.0	-	10.4	-	1024.0	-	-	-	-	-	-	-	
83.3	42.0	-	0.0	-	0.0	-	-	-	4.9	-	0.0	-	
83.3	55.0	-	0.0	-	10.8	-	-	-	0.0	-	0.0	-	
83.3	70.0	-	44.2	-	0.0	-	-	-	0.0	-	0.0	-	
83.3	90.0	-	0.0	-	94.8	-	-	-	0.0	-	0.0	-	
83.3	100.0	-	0.0	-	10.8	-	-	-	0.0	-	0.0	-	
86.7	110.0	-	-	-	48.1	-	-	-	0.0	-	0.0	-	
90.0	37.0	-	0.0	-	18.5	-	-	-	0.0	-	0.0	-	
90.0	70.0	-	111.8	-	0.0	-	-	-	0.0	-	0.0	-	
90.0	80.0	-	4.9	-	0.0	-	-	-	0.0	-	0.0	-	
93.3	35.0	-	0.0	-	0.0	-	-	-	11.3	-	0.0	-	
93.3	45.0	-	0.0	-	21.0	-	-	-	0.0	-	0.0	-	
93.3	50.0	-	10.8	-	17.2	-	-	-	0.0	-	0.0	-	
93.3	60.0	-	5.3	-	0.0	-	-	-	0.0	-	0.0	-	
93.3	90.0	-	42.3	-	0.0	-	-	-	0.0	-	0.0	-	
93.3	100.0	-	9.6	-	0.0	-	-	-	0.0	-	0.0	-	
		<i>Icichthys lockingtoni</i>											
Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
76.7	55.0	-	0.0	-	0.0	-	-	-	0.0	-	5.0	-	
76.7	60.0	-	0.0	-	10.5	-	-	-	0.0	-	0.0	-	

TABLE 4. (cont.)

<i>Icichthys lockingtoni</i> (cont.)												
Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
76.7 70.0	-	-	8.9	-	0.0	-	-	-	0.0	-	0.0	-
76.7 80.0	-	-	0.0	-	0.0	-	-	-	0.0	-	4.6	-
80.0 80.0	-	-	10.1	-	0.0	-	-	-	0.0	-	0.0	-
83.3 70.0	-	-	22.1	-	0.0	-	-	-	0.0	-	0.0	-
83.3 80.0	-	-	0.0	-	10.7	-	-	-	0.0	-	0.0	-
83.3 90.0	-	-	0.0	-	49.9	-	-	-	0.0	-	0.0	-
86.7 50.0	-	-	0.0	-	0.0	-	-	-	0.0	-	4.7	-
86.7 60.0	-	-	0.0	-	22.0	-	-	-	0.0	-	0.0	-
86.7 100.0	-	-	9.3	-	0.0	-	-	-	0.0	-	-	-
90.0 60.0	-	-	9.5	-	0.0	-	-	-	0.0	-	0.0	-
93.3 55.0	-	-	0.0	-	8.8	-	-	-	0.0	-	0.0	-
<i>Tetragonurus cuvieri</i>												
Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
76.7 100.0	-	-	0.0	-	5.0	-	-	-	-	-	-	-
80.0 80.0	-	-	0.0	-	0.0	-	-	-	9.9	-	0.0	-
80.0 90.0	-	-	0.0	-	0.0	-	-	-	18.6	-	0.0	-
80.0 100.0	-	-	0.0	-	4.8	-	-	-	-	-	-	-
83.3 60.0	-	-	0.0	-	0.0	-	-	-	4.6	-	0.0	-
83.3 70.0	-	-	0.0	-	0.0	-	-	-	9.7	-	0.0	-
83.3 90.0	-	-	0.0	-	0.0	-	-	-	4.9	-	0.0	-
86.7 80.0	-	-	0.0	-	0.0	-	-	-	25.8	-	0.0	-
86.7 90.0	-	-	0.0	-	0.0	-	-	-	4.7	-	0.0	-
86.7 100.0	-	-	0.0	-	0.0	-	-	-	24.9	-	-	-
86.7 110.0	-	-	-	-	0.0	-	-	-	9.2	-	0.0	-
90.0 80.0	-	-	0.0	-	0.0	-	-	-	5.1	-	4.9	-
90.0 100.0	-	-	0.0	-	0.0	-	-	-	15.0	-	4.8	-
90.0 110.0	-	-	0.0	-	0.0	-	-	-	5.1	-	4.9	-
93.3 80.0	-	-	0.0	-	0.0	-	-	-	9.8	-	0.0	-
93.3 90.0	-	-	0.0	-	0.0	-	-	-	20.0	-	0.0	-
93.3 100.0	-	-	0.0	-	0.0	-	-	-	0.0	-	4.8	-

TABLE 4. (cont.)

		Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
<i>Tetragonurus cuvieri</i> (cont.)													
Station	93.3	110.0	-	0.0	-	0.0	-	-	-	0.0	-	4.9	-
<i>Citharichthys</i> spp.													
Station	83.3	55.0	-	0.0	-	0.0	-	-	-	15.5	-	0.0	-
	83.3	60.0	-	0.0	-	0.0	-	-	-	0.0	-	8.8	-
	83.3	70.0	-	0.0	-	0.0	-	-	-	9.7	-	0.0	-
	86.7	33.0	-	4.9	-	0.0	-	-	-	0.0	-	0.0	-
	86.7	35.0	-	0.0	-	0.0	-	-	-	10.6	-	0.0	-
	86.7	39.5	-	0.0	-	0.0	-	-	-	0.0	-	10.3	-
	86.7	55.0	-	0.0	-	0.0	-	-	-	45.2	-	0.0	-
	86.7	60.0	-	0.0	-	0.0	-	-	-	9.9	-	0.0	-
	86.7	70.0	-	0.0	-	0.0	-	-	-	10.0	-	0.0	-
	90.0	45.0	-	0.0	-	0.0	-	-	-	8.4	-	0.0	-
	90.0	53.0	-	0.0	-	0.0	-	-	-	10.4	-	0.0	-
<i>Citharichthys sordidus</i>													
Station	76.7	60.0	-	8.9	-	0.0	-	-	-	0.0	-	0.0	-
	76.7	70.0	-	17.8	-	0.0	-	-	-	10.6	-	0.0	-
	80.0	60.0	-	0.0	-	0.0	-	-	-	14.5	-	0.0	-
	80.0	80.0	-	10.1	-	4.9	-	-	-	0.0	-	9.0	-
	81.8	46.9	-	49.7	-	0.0	-	-	-	9.7	-	4.6	-
	83.3	42.0	-	0.0	-	0.0	-	-	-	0.0	-	5.2	-
	83.3	51.0	-	40.7	-	0.0	-	-	-	0.0	-	0.0	-
	83.3	55.0	-	0.0	-	0.0	-	-	-	15.5	-	0.0	-
	83.3	60.0	-	0.0	-	10.0	-	-	-	0.0	-	13.2	-
	83.3	70.0	-	0.0	-	0.0	-	-	-	0.0	-	4.6	-
	86.7	35.0	-	10.7	-	0.0	-	-	-	0.0	-	0.0	-
	86.7	45.0	-	10.0	-	9.8	-	-	-	0.0	-	0.0	-
	86.7	50.0	-	0.0	-	9.8	-	-	-	0.0	-	0.0	-
	86.7	60.0	-	0.0	-	0.0	-	-	-	39.7	-	0.0	-

TABLE 4. (cont.)

<i>Citharichthys sordidus</i> (cont.)												
Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
90.0	28.0	-	0.0	-	0.0	-	-	-	4.3	-	0.0	-
90.0	35.0	-	0.0	-	0.0	-	-	-	0.0	-	5.3	-
90.0	37.0	-	10.1	-	9.2	-	-	-	0.0	-	10.0	-
90.0	45.0	-	41.1	-	0.0	-	-	-	0.0	-	4.8	-
90.0	53.0	-	0.0	-	0.0	-	-	-	10.4	-	4.4	-
90.0	60.0	-	19.1	-	0.0	-	-	-	10.8	-	0.0	-
90.0	70.0	-	0.0	-	5.1	-	-	-	0.0	-	0.0	-
93.3	30.0	-	0.0	0.0	-	-	-	-	0.0	-	4.9	-
93.3	35.0	-	0.0	-	0.0	-	-	-	11.3	-	0.0	-
93.3	50.0	-	10.8	-	8.6	-	-	-	0.0	-	0.0	-
93.3	55.0	-	141.4	-	0.0	-	-	-	0.0	-	0.0	-
<i>Citharichthys stigmaeus</i>												
Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
76.7	55.0	-	9.6	-	0.0	-	-	-	0.0	-	5.0	-
76.7	60.0	-	8.9	-	0.0	-	-	-	8.5	-	4.8	-
76.7	70.0	-	8.9	-	0.0	-	-	-	0.0	-	0.0	-
76.7	90.0	-	0.0	-	4.6	-	-	-	0.0	-	-	-
80.0	55.0	-	0.0	-	0.0	-	-	-	51.6	-	0.0	-
80.0	60.0	-	9.8	-	0.0	-	-	-	4.8	-	4.9	-
80.0	70.0	-	9.5	-	0.0	-	-	-	4.9	-	0.0	-
80.0	80.0	-	10.1	-	0.0	-	-	-	0.0	-	4.5	-
81.8	46.9	-	9.9	-	19.9	-	-	-	19.4	-	0.0	-
83.3	42.0	-	0.0	-	0.0	-	-	-	0.0	-	5.2	-
83.3	51.0	-	10.2	-	0.0	-	-	-	0.0	-	0.0	-
83.3	55.0	-	0.0	-	10.8	-	-	-	0.0	-	4.4	-
83.3	60.0	-	0.0	-	0.0	-	-	-	0.0	-	8.8	-
83.3	70.0	-	0.0	-	0.0	-	-	-	0.0	-	4.6	-
83.3	80.0	-	0.0	-	10.7	-	-	-	0.0	-	9.8	-
86.7	35.0	-	21.4	-	0.0	-	-	-	0.0	-	10.9	-
86.7	39.5	-	0.0	-	0.0	-	-	-	0.0	-	20.5	-

TABLE 4. (cont.)

		<i>Citharichthys stigmaeus</i> (cont.)											
Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
86.7	45.0	-	0.0	-	19.6	-	-	-	9.7	-	5.5	-	
86.7	50.0	-	0.0	-	9.8	-	-	-	6.7	-	0.0	-	
86.7	55.0	-	0.0	-	10.0	-	-	-	0.0	-	5.2	-	
86.7	60.0	-	0.0	-	0.0	-	-	-	29.8	-	0.0	-	
86.7	70.0	-	10.1	-	0.0	-	-	-	0.0	-	0.0	-	
90.0	28.0	-	5.0	-	0.0	-	-	-	0.0	-	0.0	-	
90.0	35.0	-	10.8	-	0.0	-	-	-	0.0	-	15.9	-	
90.0	37.0	-	0.0	-	0.0	-	-	-	0.0	-	5.0	-	
90.0	45.0	-	10.3	-	0.0	-	-	-	0.0	-	9.7	-	
90.0	60.0	-	0.0	-	8.7	-	-	-	10.8	-	5.3	-	
90.0	80.0	-	4.9	-	0.0	-	-	-	0.0	-	0.0	-	
93.3	26.7	-	0.0	0.0	-	-	-	-	0.0	-	4.3	-	
93.3	35.0	-	0.0	-	10.5	-	-	-	0.0	-	0.0	-	
93.3	45.0	-	9.2	-	0.0	-	-	-	0.0	-	0.0	-	
93.3	50.0	-	10.8	-	0.0	-	-	-	0.0	-	0.0	-	
93.3	55.0	-	0.0	-	8.8	-	-	-	4.7	-	0.0	-	
		<i>Hippoglossina stomata</i>											
Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
86.7	50.0	-	0.0	-	9.8	-	-	-	0.0	-	0.0	-	
93.3	35.0	-	0.0	-	0.0	-	-	-	0.0	-	4.9	-	
		<i>Paralichthys californicus</i>											
Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
86.7	33.0	-	4.9	-	0.0	-	-	-	0.0	-	0.0	-	
86.7	35.0	-	10.7	-	0.0	-	-	-	0.0	-	0.0	-	
90.0	28.0	-	5.0	-	0.0	-	-	-	0.0	-	0.0	-	
93.3	50.0	-	0.0	-	0.0	-	-	-	5.3	-	0.0	-	
		<i>Xystreureys liolepis</i>											
Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
83.3	51.0	-	0.0	-	0.0	-	-	-	4.3	-	0.0	-	
86.7	35.0	-	10.7	-	0.0	-	-	-	0.0	-	0.0	-	
90.0	28.0	-	0.0	-	0.0	-	-	-	0.0	-	9.8	-	

TABLE 4. (cont.)

Station	<i>Glyptocephalus zachirus</i>											
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
86.7 33.0	-	-	0.0	-	8.8	-	-	-	0.0	-	0.0	-
Station	<i>Lepidopsetta bilineata</i>											
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
83.3 51.0	-	-	10.2	-	0.0	-	-	-	0.0	-	0.0	-
Station	<i>Lyopsetta exilis</i>											
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
76.7 51.0	-	-	9.5	-	0.0	-	-	-	0.0	-	0.0	-
76.7 60.0	-	-	0.0	-	10.5	-	-	-	0.0	-	0.0	-
81.8 46.9	-	-	9.9	-	39.8	-	-	-	0.0	-	0.0	-
83.3 42.0	-	-	19.4	-	0.0	-	-	-	0.0	-	0.0	-
86.7 35.0	-	-	10.7	-	0.0	-	-	-	0.0	-	0.0	-
Station	<i>Microstomus pacificus</i>											
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
80.0 70.0	-	-	0.0	-	11.6	-	-	-	0.0	-	0.0	-
83.3 90.0	-	-	0.0	-	20.0	-	-	-	0.0	-	0.0	-
86.7 50.0	-	-	0.0	-	9.8	-	-	-	0.0	-	0.0	-
86.7 55.0	-	-	0.0	-	10.0	-	-	-	0.0	-	0.0	-
86.7 60.0	-	-	0.0	-	11.0	-	-	-	0.0	-	0.0	-
90.0 80.0	-	-	0.0	-	10.4	-	-	-	0.0	-	0.0	-
93.3 28.0	-	-	0.0	10.0	-	-	-	-	0.0	-	0.0	-
93.3 50.0	-	-	0.0	-	8.6	-	-	-	0.0	-	0.0	-
Station	<i>Parophrys vetulus</i>											
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
83.3 42.0	-	-	19.4	-	0.0	-	-	-	0.0	-	0.0	-
83.3 51.0	-	-	10.2	-	0.0	-	-	-	0.0	-	0.0	-
86.7 33.0	-	-	4.9	-	0.0	-	-	-	0.0	-	0.0	-
90.0 35.0	-	-	10.8	-	0.0	-	-	-	0.0	-	0.0	-
90.0 53.0	-	-	28.0	-	0.0	-	-	-	0.0	-	0.0	-
93.3 40.0	-	-	5.6	-	0.0	-	-	-	0.0	-	0.0	-
93.3 50.0	-	-	43.1	-	0.0	-	-	-	0.0	-	0.0	-

TABLE 4. (cont.)

		<i>Pleuroichthys verticalis</i>											
Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
83.3	40.6	-	0.0	-	14.2	-	-	-	0.0	-	3.9	-	
83.3	42.0	-	9.7	-	0.0	-	-	-	0.0	-	0.0	-	
83.3	51.0	-	0.0	-	0.0	-	-	-	4.3	-	0.0	-	
86.7	33.0	-	14.6	-	8.8	-	-	-	0.0	-	0.0	-	
		<i>Symphurus atricaudus</i>											
Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
83.3	42.0	-	0.0	-	0.0	-	-	-	9.7	-	0.0	-	
86.7	33.0	-	0.0	-	0.0	-	-	-	0.0	-	5.1	-	
90.0	28.0	-	0.0	-	0.0	-	-	-	4.3	-	0.0	-	
		Disintegrated fish larvae											
Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
76.7	51.0	-	0.0	-	0.0	-	-	-	0.0	-	5.1	-	
76.7	70.0	-	0.0	-	9.9	-	-	-	0.0	-	0.0	-	
76.7	80.0	-	9.9	-	0.0	-	-	-	0.0	-	0.0	-	
80.0	60.0	-	0.0	-	0.0	-	-	-	0.0	-	14.7	-	
83.3	40.6	-	0.0	-	0.0	-	-	-	0.0	-	3.9	-	
83.3	60.0	-	0.0	-	0.0	-	-	-	0.0	-	4.4	-	
83.3	90.0	-	0.0	-	0.0	-	-	-	0.0	-	4.7	-	
83.3	100.0	-	0.0	-	0.0	-	-	-	0.0	-	9.0	-	
83.3	110.0	-	-	-	0.0	-	-	-	0.0	-	4.7	-	
86.7	55.0	-	0.0	-	0.0	-	-	-	18.1	-	0.0	-	
86.7	70.0	-	10.1	-	0.0	-	-	-	0.0	-	0.0	-	
86.7	80.0	-	0.0	-	0.0	-	-	-	0.0	-	5.1	-	
86.7	90.0	-	0.0	-	0.0	-	-	-	0.0	-	4.3	-	
86.7	100.0	-	0.0	-	5.0	-	-	-	0.0	-	-	-	
90.0	35.0	-	10.8	-	0.0	-	-	-	0.0	-	0.0	-	
90.0	110.0	-	0.0	-	5.0	-	-	-	0.0	-	4.9	-	
90.0	120.0	-	0.0	-	9.6	-	-	-	0.0	-	0.0	-	
93.3	40.0	-	0.0	-	0.0	-	-	-	0.0	-	4.9	-	
93.3	45.0	-	9.2	-	0.0	-	-	-	0.0	-	0.0	-	

TABLE 4. (cont.)

Station	Disintegrated fish larvae (cont.)											
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
93.3 50.0	-	-	10.8	-	0.0	-	-	-	0.0	-	0.0	-
93.3 60.0	-	-	5.3	-	0.0	-	-	-	0.0	-	0.0	-
93.3 70.0	-	-	0.0	-	5.0	-	-	-	0.0	-	0.0	-
93.3 80.0	-	-	5.0	-	0.0	-	-	-	0.0	-	0.0	-
93.3 90.0	-	-	4.7	-	0.0	-	-	-	0.0	-	0.0	-
93.3 100.0	-	-	4.8	-	0.0	-	-	-	0.0	-	0.0	-
93.3 110.0	-	-	0.0	-	4.9	-	-	-	0.0	-	0.0	-
93.3 120.0	-	-	4.9	-	0.0	-	-	-	0.0	-	0.0	-
Unidentified fish larvae												
Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
83.3 42.0	-	-	9.7	-	0.0	-	-	-	0.0	-	0.0	-
86.7 45.0	-	-	10.0	-	0.0	-	-	-	0.0	-	0.0	-
86.7 90.0	-	-	4.7	-	0.0	-	-	-	0.0	-	0.0	-
90.0 120.0	-	-	0.0	-	0.0	-	-	-	4.8	-	0.0	-
93.3 26.7	-	-	9.2	0.0	-	-	-	-	0.0	-	0.0	-
93.3 80.0	-	-	0.0	-	14.6	-	-	-	0.0	-	0.0	-
93.3 110.0	-	-	4.7	-	0.0	-	-	-	0.0	-	0.0	-

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Notacanthiformes		Malacosteinae	
Notacanthidae		<i>Aristostomias scintillans</i>	46
<i>Leptocephalus giganteus</i>	28	Idiacanthinae	
Clupeiformes		<i>Idiacanthus antrostomus</i>	46
Clupeidae		Aulopiformes	
<i>Sardinops sagax</i>	28	Scopelarchidae	47
Engraulidae		<i>Benthalbella dentata</i>	47
<i>Engraulis mordax</i>	28	<i>Rosenblattichthys volucris</i>	47
Osmeriformes		<i>Scopelarchus analis</i>	47
Argentiniidae		<i>Scopelarchus guentheri</i>	48
<i>Argentina sialis</i>	30	Notosudidae	
Microstomatidae		<i>Scopelosaurus harryi</i>	48
<i>Microstoma</i> spp.	30	Synodontidae	
<i>Nansenia candida</i>	31	<i>Synodus lucioceps</i>	48
Bathylagidae		Paralepididae	
<i>Bathylagus</i> spp.	31	<i>Arctozenus risso</i>	48
<i>Bathylagus milleri</i>	31	<i>Lestidiops</i> spp.	48
<i>Bathylagus ochotensis</i>	32	<i>Lestidiops ringens</i>	49
<i>Bathylagus pacificus</i>	33	<i>Magnisudis atlantica</i>	49
<i>Bathylagus wesethi</i>	34	Myctophiformes	
<i>Leuroglossus stilbius</i>	35	Myctophidae	49
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Gonostomatidae		<i>Ceratoscopelus townsendi</i>	50
<i>Cyclothone</i> spp.	37	<i>Diaphus</i> spp.	51
<i>Cyclothone acclinidens</i>	37	<i>Lampadena urophaos</i>	52
<i>Cyclothone pseudopallida</i>	38	<i>Lampanyctus</i> spp.	52
<i>Cyclothone signata</i>	38	<i>Lampanyctus "niger"</i>	52
Sternoptychidae	39	<i>Lampanyctus "no pectorals"</i>	52
<i>Argyropelecus</i> spp.	39	<i>Lampanyctus regalis</i>	53
<i>Argyropelecus affinis</i>	39	<i>Lampanyctus ritteri</i>	53
<i>Argyropelecus hemigymnus</i>	40	<i>Lampanyctus steinbecki</i>	54
<i>Argyropelecus lychnus</i>	40	<i>Notolychnus valdiviae</i>	54
<i>Argyropelecus sladeni</i>	40	<i>Notoscopelus resplendens</i>	55
<i>Danaphos oculatus</i>	41	<i>Stenobranchius leucopsarus</i>	55
<i>Sternoptyx</i> spp.	42	<i>Triphoturus mexicanus</i>	57
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<i>Ichthyococcus irregularis</i>	42	<i>Diogenichthys atlanticus</i>	58
<i>Vinciguerrria lucetia</i>	42	<i>Electrona risso</i>	59
<i>Vinciguerrria poweriae</i>	43	<i>Gonichthys tenuiculus</i>	60
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<i>Chauliodus macouni</i>	44	<i>Hygophum reinhardtii</i>	60
Stomiinae		<i>Loweina rara</i>	60
<i>Stomias atriventer</i>	44	<i>Myctophum nitidulum</i>	60
Melanostomiinae	45	<i>Protomyctophum crockeri</i>	61
<i>Bathophilus flemingi</i>	45	<i>Symbolophorus californiensis</i>	62
<i>Tactostoma macropus</i>	45	<i>Tarletonbeania crenularis</i>	64

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<i>Brosmophycis marginata</i>	66
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<i>Argyropelecus hemigymnus</i>	40	<i>Hygophum reinhardtii</i>	60
<i>Argyropelecus lychnus</i>	40	<i>Hygophum</i> spp.	60
<i>Argyropelecus sladeni</i>	40	<i>Hypsoblennius gentilis</i>	78
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<i>Bathophilus flemingi</i>	45	<i>Icosteus aenigmaticus</i>	78
<i>BathYGONUS pentacanthus</i>	74	<i>Idiacanthus antrostomus</i>	46
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<i>Bathylagus ochotensis</i>	32	<i>Lampanyctus "niger"</i>	52
<i>Bathylagus pacificus</i>	33	<i>Lampanyctus "no pectorals"</i>	52
<i>Bathylagus wesethi</i>	34	<i>Lampanyctus regalis</i>	53
<i>Bathylagus</i> spp.	31	<i>Lampanyctus ritteri</i>	53
<i>Benthalbella dentata</i>	47	<i>Lampanyctus</i> spp.	52
<i>Brama japonica</i>	75	<i>Lampanyctus steinbecki</i>	54
<i>Brosomphycis marginata</i>	66	<i>Lepidogobius lepidus</i>	78
<i>Caristius maderensis</i>	75	<i>Lepidopsetta bilineata</i>	84
<i>Cataetyx rubrirostris</i>	66	<i>Leptocephalus giganteus</i>	28
<i>Ceratospopelus townsendi</i>	50	<i>Lestidiops ringens</i>	49
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<i>Citharichthys stigmaeus</i>	82	<i>Magnisudis atlantica</i>	49
<i>Cololabis saira</i>	67	<i>Melamphaes lugubris</i>	67
<i>Coryphopterus nicholsii</i>	78	<i>Melamphaes parvus</i>	68
<i>Cryptotrema corallinum</i>	77	<i>Melamphaes simus</i>	68
<i>Cyclothone acclinidens</i>	37	<i>Melamphaes</i> spp.	67
<i>Cyclothone pseudopallida</i>	38	<i>Melanostomiinae</i>	45
<i>Cyclothone signata</i>	38	<i>Merluccius productus</i>	64
<i>Cyclothone</i> spp.	37	<i>Microstoma</i> spp.	30
<i>Danaphos ocellatus</i>	41	<i>Microstomus pacificus</i>	84
<i>Diaphus</i> spp.	51	<i>Myctophidae</i>	49
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<i>Disintegrated fish larvae</i>	85	<i>Nansenia candida</i>	31
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