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**Annual Operating Report**  
**SAN ONOFRE NUCLEAR GENERATING STATION**

**Volume II**  
**Biological Data Report**  
**INTERTIDAL INFAUNA, SUBTIDAL INFAUNA**  
**KELP, ICHTHYOPLANKTON**

**CONSTRUCTION MONITORING PROGRAM**  
**Units 2 and 3**  
**SPECIAL STUDY: Ichthyoplankton**

**Prepared for**

**Southern California Edison Company**  
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1979

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## I. INTRODUCTION

This report, Volume II, presents the biological data collected during investigations of the marine environment in the vicinity of the San Onofre Nuclear Generating Station (SONGS) conducted for Southern California Edison Company (SCE). Included are data from intertidal, subtidal, and kelp programs related to the construction monitoring (CMP) and ichthyoplankton data from a special study. Presented data for the intertidal, subtidal, and kelp programs represent the 1979 study period (January through December), while the ichthyoplankton data span a two-year period from August 1977 through July 1979 (Table I-1 and I-2).

### PURPOSE OF THE STUDY

The purpose of the intertidal infaunal, subtidal infaunal, and kelp programs was to quantitatively assess environmental effects on community composition, and distribution of sand dispersal during construction and dredging operations associated with the construction of SONGS Units 2 and 3. The ichthyoplankton program measured withdrawal of larvae by the Unit 1 intake and the composition and density of nearshore ichthyoplankton populations, to predict the effect of SONGS operation on selected target species.

The monitoring programs met all requirements specified by the California Regional Water Quality Control Board - San Diego Region - Monitoring and Report Program No. 71-6 for Construction of the San Onofre Nuclear Generating Station Units 2 and 3, including Technical Change Orders No. 1, 2, and 3. Further, the investigations satisfy Nuclear Regulatory Commission (NRC) requirements.

### SITE LOCATION

The construction site for SONGS Units 2 and 3 is located on the coast of southern California at approximately 30° 22.5' North latitude and 117° 32.5' West longitude. San Clemente, the closest city to SONGS, is on the coast approximately 4 km to the northwest, while the nearest municipality to the southeast is Oceanside some 19 km downcoast from the station.

### BACKGROUND

A general discussion of studies conducted at SONGS for the Southern California Edison Company is included here to provide historical perspective to the ongoing programs.

Oceanographic and marine biological studies, referred to as the Marine Environmental Monitoring (MEM), began in 1963 in the San Onofre area and were reported on a semiannual basis to the California Regional Water Quality Control Board, San Diego Region (CRWQCB) until 1975. In 1975, the Unit 1 Environmental Technical Specification (ETS) program was implemented in compliance with Nuclear Regulatory Commission requirements. The ETS program has continued to the present. In 1976, the CRWQCB issued permits for SONGS Units 1, 2, and 3 under the National Pollutant Discharge Elimination System (NPDES) which included marine monitoring programs to replace previous MEM requirements. The NPDES marine monitoring programs, which are similar to the ETS program, have continued to the present.

Studies of the effects of SONGS Units 2 and 3 construction were initiated in 1974 as required by the CRWQCB. These studies focused on the impacts of sand

disposal onto the beach from onshore construction site excavations. These studies, called the Sand Disposal Monitoring Program, continued through 1976. The emphasis shifted in 1977 when dredging for the emplacement of the offshore portions of Units 2 and 3 cooling systems began. Studies focused on the offshore construction activities started in December 1976, as set forth in the CRWQCB order No. 71-6, Technical Change No. 2. These studies are referred to as the Construction Monitoring Program and have continued to the present.

In 1978, a Preoperational Monitoring Program (PMP) was initiated in compliance with requirements of the Nuclear Regulatory Commission. This Program along with the others mentioned above, will provide a baseline of oceanographic and marine biological data prior to the operation of Units 2 and 3. The Preoperational Monitoring Program is complementary to the Unit 1 ETS Program and essentially expands the study area further offshore into the area of Units 2 and 3 diffusers. The initial analysis report for the Construction Monitoring Program was submitted in April 1978 (Marine Biological Consultants, Inc. [MBC] 1978). The initial construction monitoring data report, including results from the newly implemented Preoperational Monitoring Program was submitted in April 1979 (MBC 1979) and was followed by an analysis report of 1978 data in July 1979 (SCE 1979).

The Preoperational Monitoring Program includes a requirement for a special study of ichthyoplankton in the San Onofre area. This study was initiated in August 1977 and sampling was completed in July 1979. The ichthyoplankton section of the 1979 data report represents the first comprehensive presentation of this program data. The purpose of the program is: 1) to provide baseline data on fish larvae populations near San Onofre; and 2) predict the effects of larval entrainment at San Onofre on the fish stocks of select target species.

#### SCOPE AND ORGANIZATION

This document presents all raw and summarized biological data for intertidal infaunal, subtidal infaunal, kelp, and ichthyoplankton studies. Miscellaneous field observations are also included. Physical and chemical data related to the above studies are contained in the Oceanographic Data Volume I (80-RD-10). Additional biological data from adult fish, plankton, subtidal and intertidal rocky habitat studies are presented in Volumes III and IV (80-RD-12 and 80-RD-13).

A description of plant operation including mean daily megawatt output (station load), inplant  $T$  [(°C) discharge temperature minus intake temperature], and circulating water flow at SONGS Unit 1 during 1979 are presented in Volume I, Chapter 1, and Fig. 1-4 (80-RD-10).

A log of construction activities is presented in Volume I, Chapter 6 (80-RD-10). A figure depicting disposition of dredging and construction displaced sediments is presented in Volume V, Chapter 2D (80-RD-20).

Detailed analyses and interpretation of all oceanographic and biological data contained in Volumes I, II, III, and IV (80-RD-10, -11, -12, and -13) are presented in Volume V (80-RD-20) available 1 July 1980.

#### Literature Cited

Marine Biological Consultants, Inc. 1979. San Onofre Nuclear Generating Station, Units 2 and 3 construction monitoring program biological and sedimentological data summary, Vol. III. January-December 1978. Prepared for Southern California Edison Company [79-RD-11]. 182 pp.

Table I-1. Survey dates of intertidal infaunal, subtidal infaunal, and kelp field efforts during 1979.

	Intertidal	Subtidal Infauna	Sediment Traps	Kelp Bed Nutrients	Kelp Bed Mapping
Jan			26	26	
Feb	21,22	12-14,22	12,13	15	
Mar			15	15	
Apr			17	17	13
May	16,17	21-23	21,22	16	
Jun			19	20	6
Jul			24	11	
Aug	6,7	28-30	29	20	
Sept			28	11	20
Oct			26	12	
Nov		28,29	28	16	
Dec	4,5		27	28	20

Table I-2. Survey dates for SONGS ichthyoplankton field efforts,  
August 1977 through July 1979.

	Fish Pump	Offshore Net Tows
<u>1977</u>		
August	10-11	10-11
September	8-9	8-9
October	13-14	13-14
November	22 (day) 29-30 (night)	29-30
December	27 (day) 29-30 (night)	28-30
<u>1978</u>		
January	26-27	26-27
February	27-28	27
March	No intakes*	27-29
April	27-28	27-29
May	29-30	29-31
June	27-28	27-29
July	27-28	29-31
August	31-1	28-30
September	No intakes**	28-30
October	30-31	31-2
November	30-1 Dec	29-1
December	27-28	27-29
<u>1979</u>		
January	2-3 Feb	29-30/2-3 Feb
February	28-1 Mar	27-1 Mar
March	29-30	28-30
April	30-1 May	30-2 May
May	30-31	30-1 Jun
June	27-28	27-29
July	30-31	30-1 Aug

\* Access hose lost

\*\* Circulation pumps not operating.



## II. INTERTIDAL INFAUNAL STUDY

These investigations of the intertidal infaunal biota were established to determine if construction related changes in the sandy intertidal habitat would have a detrimental effect on the sandy intertidal community.

### SAMPLING METHODS

The five permanent intertidal transects used since December 1976 (MBC 1978, 1979) were reoccupied quarterly in 1979 (Fig. II-1). Sampling was conducted on three consecutive days during the lowest tidal series of the survey month. Beach profiling was conducted on the first day. Biological and sedimentological core sampling was performed on the two days following the surveying.

### Biological Sampling

Along each transect, seven biological sampling stations were established at one foot vertical increments between mean lower low water (0 ft) and the +6 ft elevation using a modified surveyor's transect. Five replicate 5 liter cores (15.24 cm in diameter and 30 cm long) were collected at each station as it was exposed on a receding tide; one core from the transect centerline, and one at 3 and 6 m to either side. Cores were field screened through a 1.0 mm mesh. Retained organisms were preserved in 10% buffered Formalin-seawater. All specimens were returned to the laboratory, identified to the lowest possible taxon, and enumerated.

### Physical Measurements and Grain Size Determination

At each transect a beach profile was constructed from the 0 ft tidal elevation to the maximum tidal excursion of the survey day, using a self-leveling surveyor's transit. Surf temperatures were recorded at each transect.

A core sample for grain size analysis was collected adjacent to each biological sample. Grain size distribution of the sediment was determined by standard automatic settling tube analyses (combined with sieving for gravel when necessary).

### RESULTS

Dates of intertidal field surveys are presented in Table I-1. The following tables present: 1) a summary of biological data by survey during 1979 and 2) the abundance of intertidal taxa by transect, level, and replicate during the four quarterly surveys. All physical data (for sediment and water) related to these biological data are presented in Volume I Oceanography (80-RD-10). A table of miscellaneous field observations is included at the end of this chapter.

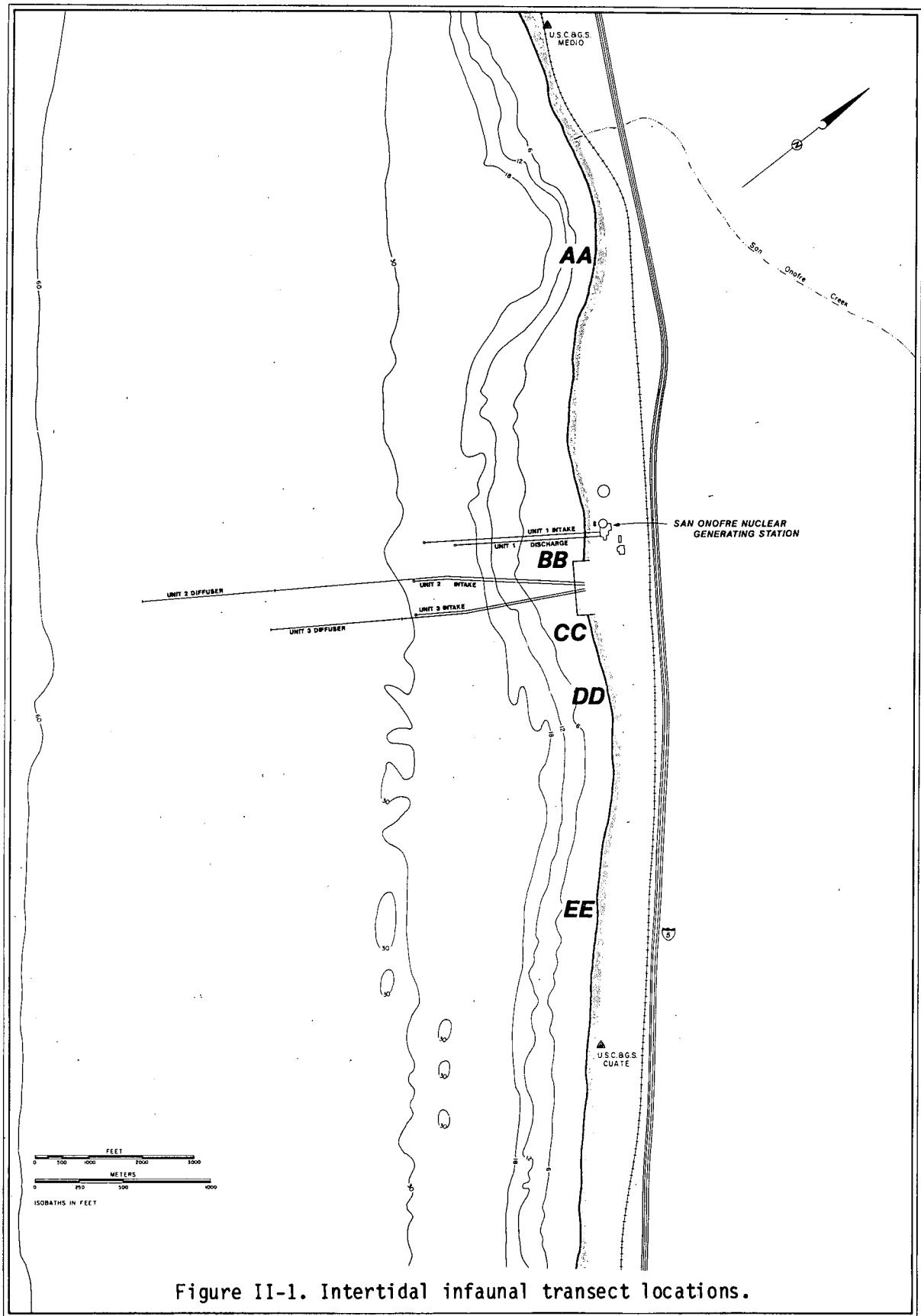


Figure II-1. Intertidal infaunal transect locations.

Table II-1. Intertidal master species list summary table (1979) concentrations expressed as mean number per 5 liter core.

	FEB	MAY	AUG	DEC
NEMERTEA				
NEMERTEA, UNID.	0.00	0.02	0.00	0.01
CARINGMA MUTABILIS	0.00	0.00	0.01	0.02
ANNELIDA				
POLYCHAETA				
ERRANTIA				
PISIONE REMOTA	0.00	0.03	0.02	0.03
NEPHTYS CALIFORNIENSIS	0.00	0.01	0.02	0.00
NEPHTYS FERRUGINEA	0.00	0.00	0.02	0.01
HEMIPODUS BOREALIS	0.11	0.17	0.10	0.10
HEMIPODUS SP.	0.00	0.01	0.00	0.00
LUMBRINERIS ZONATA	0.00	0.00	0.00	0.01
LUMBRINERIS JAPONICA	0.01	0.00	0.00	0.00
ANNELIDA				
POLYCHAETA				
SPIDNARIA				
SCOLOPLOS ARMIGER	0.00	0.00	0.03	0.02
SPIONIDAE, UNID.	0.01	0.00	0.00	0.00
DISPID UNCINATA	0.00	0.00	0.01	0.00
MICROSPID ACUTA	0.01	0.00	0.01	0.06
POLYOPHTHALMUS PICTUS	0.00	0.00	0.01	0.00
EUZONUS DILLONENSIS	0.01	0.00	0.01	0.01
ANNELIDA				
POLYCHAETA				
POLYCHAETA, UNID.	0.00	0.00	0.01	0.00
ARTHROPODA				
CRUSTACEA				
MALACOSTROCA				
MYSIDACEA				
MYSIDA				
ARCHAEOMYSIS MACULATA	0.00	0.00	0.01	0.00
ARTHROPODA				
CRUSTACEA				
MALACOSTROCA				
ISOPODA				
FLABELLIFERA				
EXCIROLANA SP.	0.01	0.00	0.00	0.00
EXCIROLANA KINCAIDI	0.03	0.01	0.03	0.00
ARTHROPODA				
CRUSTACEA				
MALACOSTROCA				
AMPHIPODA				
GAMMARIDEA				
EODHAUSTORIUS WASHINGTONIANUS	0.00	0.06	0.06	0.09
RHEPOXYNIUS EPISTOMUS	0.00	0.00	0.00	0.01
PODOCERUS BRASILIENSIS	0.00	0.00	0.00	0.01
ARTHROPODA				
CRUSTACEA				
MALACOSTROCA				
AMPHIPODA				
GAMMARIDEA				
ORCHESTOIDEA COLUMBIANA	0.00	0.00	0.01	0.00
ORCHESTOIDEA BENEDICTI	0.00	0.00	0.01	0.00
ORCHESTOIDEA MINOR	0.00	0.00	0.07	0.00
ARTHROPODA				
CRUSTACEA				
MALACOSTROCA				
AMPHIPODA				
CAPRELLIDEA				
CAPRELLA EQUILIBRA	0.00	0.00	0.00	0.01
ARTHROPODA				
CRUSTACEA				
MALACOSTROCA				
DECAPODA				
ANOMURA				
EMERITA ANALOGA	0.21	4.87	2.36	0.31
ARTHROPODA				
CRUSTACEA				
MALACOSTROCA				
DECAPODA				
BRACHYURA				
LEPIDOPA CALIFORNICA	0.00	0.00	0.03	0.02
MOLLUSCA				
GASTROPODA				
NEOGASTROPODA				
OLIVELLA RIPLICATA	0.01	0.00	0.00	0.00
MOLLUSCA				
PELFCYPODA				
VENERIDA				
DONAX GOULDII	0.00	0.02	0.02	0.01
MISCELLANEOUS				
INSECTA, UNID.	0.00	0.01	0.00	0.00
SACCOCIRRUS PAPILLOCERCUS	0.00	0.00	0.00	0.01







Table II-3. Miscellaneous intertidal field observations.

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 Miscellaneous Intertidal Field Observations
 

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Transect BB, 21 February 1979: Raining at level +6 and 0. Clean between.

Transect EE, 22 February 1979: Stake #5, beach elevation 12.73 ft, slope distance to next lower elevation 1.82, from front of berm to small sand wall, drops to stake #6.

Transect EE, 22 February 1979: Partial clouds, sunny morning, breezes north at 5-7 kn. Seas light chop, scattered small white caps. Westerly swell north 1-2 ft.

Transect AA, 16 May 1979: Wave height 2-3 ft, angle near parallel, period 12-17 sec. From 0 ft level out, a sand bar extends seaward at about the same level for approximately 100 to 150 ft.

Transect DD, 17 May 1979: Wave height 1-4, period 10 sec, direction parallel.

Transect EE, 17 May 1979: Wave height 1-2 ft, wave direction near parallel, wave period 9-12 sec.

Transect AA, 6 August 1979: Fine sand from +2 to 0.0 instead of cobble. Sand bar formed from +2 to 0.0.

Transect BB, 6 August 1979: Berm angle N 30° with no cusp as noted on previous surveys. Berm is fairly even (note photos).

Transect CC, 6 August 1979: Stake in mound by road. Benchmark in cliff.

Transect BB, 4 December 1979: Sea smooth, calm, winds 1-3 kn west.

Transect CC, 5 December 1979: New bench mark. SONGS drain- bulleyes under white paint. BM 18.64 ft. BM walked in from Transect DD - now located on crest next to SONGS utility road.

Transect EE, 5 December 1979. Sea calm, light westerly breeze 1-3 kn. High scattered clouds. Donax species present on surface of sand from +1 ft through minus level.

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### III. BENTHIC INFAUNAL STUDY

Subtidal infaunal investigations were established to investigate effects of dredge induced sedimentation on the infaunal invertebrate community adjacent to SONGS.

#### SAMPLING METHODS

Data were collected quarterly during February, May, August, and November 1979 (Table I-1). Biological collections were made at stations located on the 6, 9, and 15 m isobaths of six offshore transects. Two of the six transects were established as reference areas, one upcoast and one downcoast of the construction area. The remaining four treatment transects flank the axis along which dredging and conduit emplacement proceeded (Fig. III-1).

#### Biological Sampling

At each station, biological samples were collected for the identification and enumeration of taxa present. At stations located along the 6 m isobath (A1, B1, C1, D1, E1, and F1) five one liter (10 cm x 10 cm x 10 cm) replicate box core samples were collected by divers. Collections from the 9 and 15 m isobath stations (A2, B2, C2, D2, E2, F2, A3, B3, C3, D3, E3, and F3) consisted of 12 replicate one liter samples. Each sample was screened through a 0.5 mm screen in the field, and the retained fraction preserved in 10% Formalin-seawater.

#### Physical Measurement and Sediment Characteristic Determination

At each station, sediment stake heights (vertical distance from substrate to top of a permanent monument), which are used to detect changes in bottom height between surveys, were determined with a tape measure. Sediment deposition rates were calculated from sediment trap collections. At each station, sediment traps were positioned on top of the permanent monuments. The traps were replaced monthly. The contents were returned to the laboratory, oven dried at 100°C for 24 hrs, and their dry weight recorded.

Sediment samples for total organic carbon determinations and grain size analysis were collected at each station adjacent to the biological samples. At stations located along the 6 m isobath, three core samples each were collected for both sediment size and organic carbon analyses. At stations located along the 9 and 15 m isobaths, four core samples were collected for sediment size analysis and eight samples collected for organic carbon analyses. Total organic carbon content was determined for each sample using a LECO gasometric carbon analyzer. Grain size was determined by automatic settling tube analyses of sand sized fractions (combined with sieving for gravel when necessary). Silt-clay fractions were analyzed using standard hydrometric techniques. Calculations for mean phi, skewness, kurtosis, and other sediment descriptive characteristics followed the formula of Inman (1952).

Bottom water and Secchi disc readings (measuring water clarity) were collected at all stations during each quarterly survey.

All physical and chemical data collected by the above techniques is presented in Volume I. Oceanography (80-RD-10).



## RESULTS

Dates of subtidal infaunal field surveys and sediment trap retrieval are indicated in Table I-1. The following tables present a summary of biological data by survey during 1979 and the quarterly abundance of infaunal taxa by station and replicate. All physical and chemical data (for sediment and water) related to these biological data are presented in Volume I. Oceanography (80-RD-10). A table of miscellaneous field observations is included at the end of this chapter.

### Literature Cited

Inman, D. L. 1952. Measures for describing the size distribution of sediments.  
J. Sed. Pet. 22:125-145.

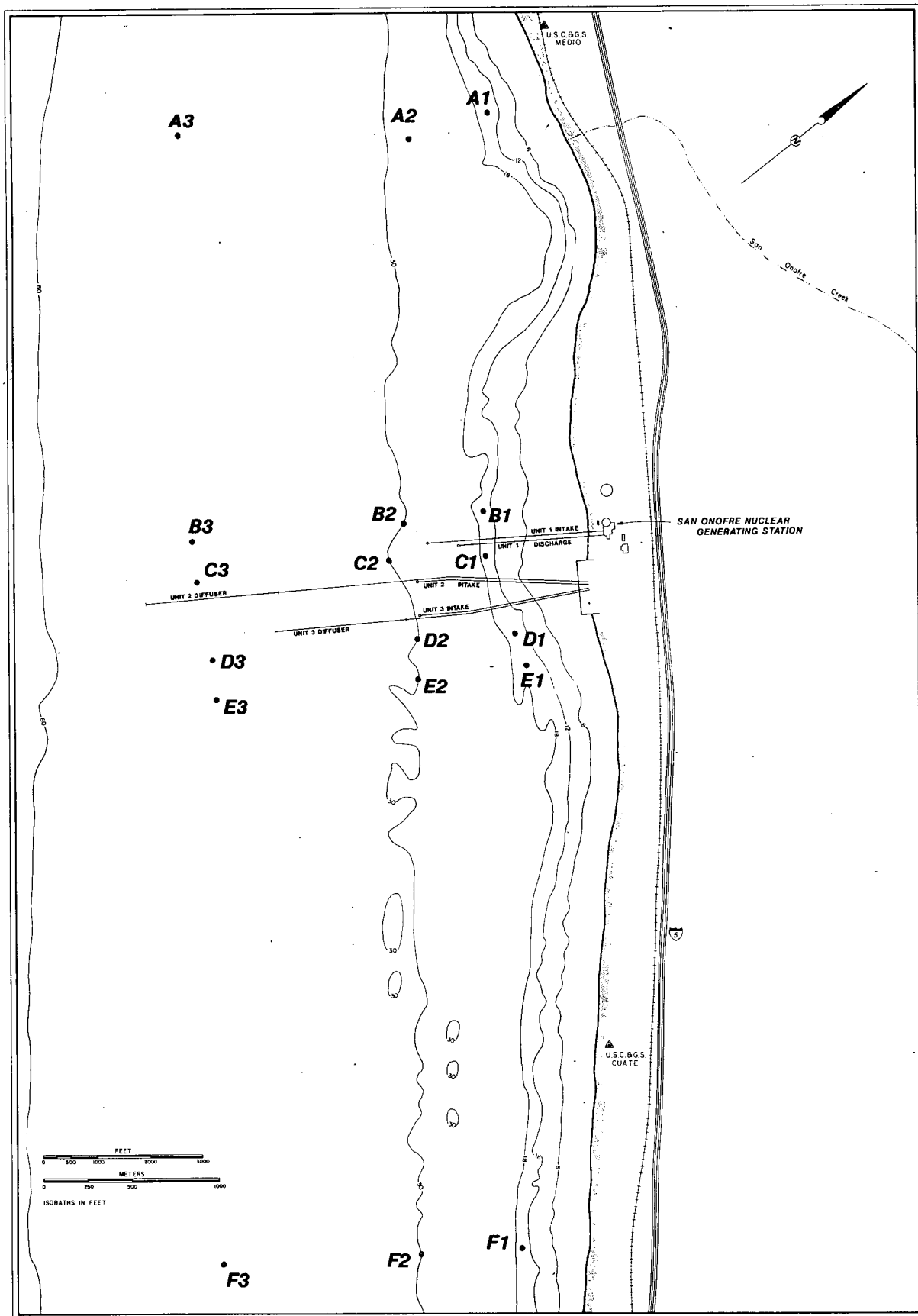


Figure III-1. Benthic infauna sampling locations.

Table III-1. Subtidal master species list summary table. Concentrations expressed as mean number per liter.

SPECIES NAME	FEB	MAY	AUG	NOV
SARCODINA				
FORAMINIFERA				
GROMIA SP.	0.01	0.00	0.00	0.00
CNIDARIA				
HYDROZOA				
HYDROZOA, UNID.	0.06	0.01	0.00	0.00
CNIDARIA, UNID.	0.00	0.00	0.01	0.00
CNIDARIA				
ANTHOZOA				
ANTHOZOA, UNID.	0.00	0.01	0.01	0.00
EDWARDSIIDAE, UNID.	0.01	0.01	0.00	0.01
HALCAMPA DECEMENTACULATA	0.00	0.01	0.00	0.00
ZAOLUTUS ACTIUS	0.01	0.00	0.02	0.01
ISOEDWARDSIA SP. A	0.04	0.10	0.02	0.05
EDWARDSIA SIPUNCULOIDES	0.00	0.06	0.09	0.02
MESACMAEA SP. A	0.00	0.00	0.02	0.00
PLATYHELMINTHES				
PLATYHELMINTHES, UNID.	0.05	0.05	0.20	0.07
NEMERTEA				
NEMERTEA, UNID.	1.41	0.26	0.76	1.05
CERERRATULUS CALIFORNIENSIS	0.00	0.02	0.06	0.00
CARINOMA MUTABILIS	0.00	0.84	0.91	0.55
ZYGEUPOLIA RUHENS	0.00	0.01	0.00	0.00
PARAMERTES SP. A	0.00	0.02	0.00	0.06
CARINOMELLA LACTEA	0.00	0.01	0.06	0.00
MICRURA ALASKANSIS	0.00	0.05	0.01	0.05
PARAMERTES SP.	0.00	0.00	0.02	0.00
PARAMERTES CALIFORNICA	0.00	0.00	0.01	0.00
NEMATODA				
NEMATODA, UNID.	0.06	0.07	0.06	0.04
ANNELIDA				
POLYCHAETA				
ERRANTIA				
HALOSYDNA LATIOR	0.00	0.00	0.00	0.01
HARMOTHOE LUNULATA	0.00	0.07	0.07	0.08
HARMOTHOE PRIOPS	0.06	0.07	0.02	0.03
SIGALIONIDAE, UNID.	0.00	0.00	0.00	0.01
STHENELAIS VERRUCULOSA	0.03	0.06	0.03	0.00
STHENELANELLA UNIFORMIS	0.00	0.00	0.01	0.00
EUSIGALION SPINOSUM	0.17	0.37	0.15	0.14
EURYTHOE COMPLANATA	0.01	0.00	0.00	0.00
EUPHROSINE PAUCIBRANCHIATA	0.00	0.01	0.00	0.00
ANAITIDES SP.	0.04	0.04	0.01	0.01
ANAITIDES WILLIAMSII	0.00	0.00	0.01	0.02
ETEONE ALBA	0.06	0.04	0.01	0.01
ETEONE DILATAE	0.01	0.01	0.02	0.01
EUMIDA BIFOLIATA	0.00	0.01	0.00	0.01
EUMIDA SANGUINEA	0.03	0.00	0.00	0.00
EUMIDA SP.	0.01	0.01	0.00	0.02
ETEONE LIGHTI	0.00	0.03	0.01	0.01
PHYLLODOCE SP.	0.01	0.00	0.00	0.00
HESIONIDAE, UNID.	0.00	0.00	0.03	0.00
GYPTIS BREVIPALPA	0.06	0.04	0.05	0.03
GYPTIS BRUNNEA	0.00	0.01	0.00	0.00
HESIONELLA MCCULLOCHAE	0.01	0.00	0.00	0.02
MICROPHthalmus SP.	0.01	0.00	0.00	0.00
ANCISTROSYLLIS HAMATA	0.02	0.00	0.00	0.00
PARANDALIA FAUVELI	0.00	0.00	0.01	0.00
SYLLIDAE, UNID.	0.00	0.02	0.02	0.00
EUSYLLIS TRANSECTA	0.00	0.00	0.00	0.01

Table III-1. Subtidal master species list summary table. Concentrations expressed as mean number per liter (Cont).

SPECIES NAME	FEB	MAY	AUG	NCV
POLYCHAETA				
ERRANTIA				
EXOGONE GEMMIFERA	0.01	0.00	0.00	0.00
EXOGONE LOUREI	0.00	0.00	0.01	0.00
ODONTOSYLLIS PHOSPHOREA	0.00	0.00	0.00	0.01
TYPOSYLLIS ACICULATA	0.26	0.28	0.25	0.24
TYPOSYLLIS FASCIATA	0.00	0.00	0.01	0.00
TYPOSYLLIS PULCHRA	0.00	0.00	0.01	0.00
TYPOSYLLIS SP.	0.00	0.01	0.02	0.00
STREPTOSYLLIS SP.	0.00	0.01	0.00	0.02
NEREIDAE, UNID.	0.00	0.00	0.00	0.01
NEREIS LATFSCENS	0.00	0.00	0.01	0.01
NEREIS PROCERA	0.00	0.01	0.01	0.02
NEREIS SP.	0.00	0.01	0.07	0.07
PLATYNEREIS BICANALICULATA	0.01	0.00	0.00	0.01
NEPHTYS CAECIQUES	0.26	0.16	0.20	0.21
NEPHTYS CALIFORNIENSIS	0.00	0.01	0.01	0.00
NEPHTYS CORNUTA FRANCISCANA	0.11	0.12	0.16	0.16
NEPHTYS SP.	0.00	0.06	0.03	0.01
SPHAERODOPIS BISERIALIS	0.01	0.01	0.01	0.01
SPHAERODORIDIUM MINUTUM	0.00	0.04	0.00	0.00
SPHAERODOROPSIS SPHAERULIFER	0.05	0.00	0.00	0.01
SPHAERODOROPSIS DISTICHUM	0.00	0.00	0.00	0.01
GLYCERIDAE	0.00	0.00	0.01	0.00
GLYCERA CAPITATA	0.00	0.01	0.00	0.00
GLYCERA CONVOLUTA	0.09	0.06	0.06	0.11
GLYCERA SP.	0.00	0.17	0.15	0.01
GLYCERA OXYCFPHALA	0.00	0.00	0.01	0.00
GLYCINDE ARMIGERA	0.04	0.17	0.18	0.03
GLYCINDE POLYGNATHA	0.01	0.00	0.00	0.00
GONIADA BRUNNEA	0.01	0.01	0.02	0.02
GONIADA LITTOREA	0.82	1.14	1.16	0.95
GONIADA SP.	0.00	0.02	0.06	0.01
GLYCINDE SP.	0.00	0.01	0.01	0.00
ONUPHIDAE, UNID.	0.05	0.01	0.02	0.01
DIOPATRA SPLENDIDISSIMA	0.01	0.00	0.01	0.01
DIOPATRA SP.	0.00	0.00	0.00	0.02
NOTHRIA ELEGANS	0.00	0.00	0.00	0.01
NOTHRIA SP.	0.00	0.02	0.00	0.01
ONUPHIS EREMITA	0.05	0.01	0.02	0.02
NOTHRIA IRIDESCENS	0.03	0.08	0.03	0.04
ONUPHIS SP.	0.00	0.00	0.00	0.01
MARPHISA SP.	0.00	0.00	0.00	0.01
LUMBRINERIS CRUZENSIS	0.02	0.00	0.00	0.01
LUMBRINERIS LATREILLI	0.11	0.07	0.04	0.02
LUMBRINERIS TETRAURA	1.20	0.38	0.44	0.90
LUMBRINERIS ZONATA	0.00	0.00	0.01	0.00
LUMBRINERIS SP.	0.06	0.65	0.56	0.35
LUMBRINERIS PALLIDA	0.00	0.02	0.03	0.04
LUMBRINERIS JAPONICA	0.00	0.02	0.02	0.00
LUMBRINERIS CALIFORNIENSIS	0.01	0.01	0.00	0.00
LUMBRINERIS CRASSIDENTATA	0.01	0.01	0.00	0.00
LUMBRINERIS PLATYPYGOS	0.00	0.01	0.00	0.00
LUMBRINERIS PLATYLOBATA	0.00	0.00	0.01	0.00
ARABELLIDAE, UNID.	0.01	0.00	0.01	0.01
ARABELLA IRICOLOR	0.01	0.02	0.01	0.01
NOTOCIRRUS CALIFORNIENSIS	0.00	0.00	0.00	0.01
DRILONEREIS SP.	0.01	0.00	0.00	0.00
DRILONEREIS FALCATA	0.01	0.01	0.00	0.01
PROTODORVILLEA GRACILIS	0.00	0.02	0.00	0.00
SCHISTOMERINGOS RUDOLPHI	0.00	0.00	0.01	0.00
PARALEPTIS FIMBRIATA	0.00	0.01	0.00	0.01
SCALEWORM, UNID.	0.01	0.00	0.00	0.01

Table III-1. Subtidal master species list summary table. Concentrations expressed as mean number per liter (Cont).

SPECIES NAME	FEB	MAY	AUG	NOV
ANNELIDA				
POLYCHAETA				
SEDENTARIA				
ORBINIIDAE, UNID.	0.00	0.00	0.01	0.00
HAPLOSCOLOPLOS ELONGATUS	0.71	0.40	0.18	0.13
SCOLOPLOS ACMECEPS	0.00	0.01	0.00	0.00
SCOLOPLOS ARMIGER	0.68	0.74	0.49	0.73
NAINERIS UNCINATA	0.00	0.00	0.01	0.00
PARAONELLA PLATYBRANCHIA	0.02	0.02	0.07	0.02
TAURERIA OCULATA	0.01	0.02	0.01	0.02
PARAONIDAE, UNID.	0.01	0.01	0.03	0.03
CIRROPHORUS FURCATUS	0.00	0.00	0.00	0.01
ARICIDFA WASSI	0.01	0.00	0.01	0.03
AEDICIRA PACIFICA	0.00	0.00	0.02	0.04
ACESTA CATHERINAE	1.55	2.31	3.43	1.45
ACESTA HORIKOSHII	0.01	0.01	0.02	0.01
ALLIA NOLANI	0.00	0.00	0.02	0.00
ACESTA SP.	0.00	0.00	0.00	0.01
SPIONIDAE, UNID.	0.01	0.02	0.03	0.01
DISPID UNCINATA	0.06	0.01	0.01	0.02
LAONICE CIRRATA	0.00	0.03	0.01	0.02
LAONICE FOLIATA	0.00	0.00	0.00	0.01
MICROSPID ACUTA	0.00	0.01	0.00	0.00
POLYDORA CAULLERYI	0.00	0.01	0.00	0.00
POLYDORA LIGNI	0.00	0.01	0.00	0.02
POLYDORA SP.	0.05	0.02	0.01	0.01
PRIONOSPID CIRRIFERA	0.18	0.17	0.47	0.19
PRIONOSPID MALMGRENI	0.01	0.01	0.01	0.01
PARAPRIONOSPID PINNATA	0.37	0.39	0.30	0.33
AOPRIONOSPID PYGMAEUS	2.21	0.59	3.80	1.95
SPIOPHANES BOMBIX	0.78	0.79	0.42	0.64
SPIOPHANES MISSIONENSIS	0.28	0.14	0.10	0.21
PRIONOSPID SP.	0.02	0.01	0.01	0.00
SPIOPHANES SP.	0.02	0.02	0.02	0.05
SPIOPHANES ANOCULATA	0.00	0.00	0.00	0.01
SPIOPHANES BERKELEYDRUM	0.01	0.03	0.01	0.01
RHYNCHOSPID SP.	0.00	0.01	0.01	0.01
MAGELONA PITELKAI	0.01	0.20	0.10	0.01
MAGELONA SACCOLATA	0.07	0.27	0.32	0.18
MAGELONA SP.	0.01	0.01	0.01	0.01
POECILOCHAFTUS JOHNSONI	0.01	0.02	0.01	0.01
SPIOCHAETOPTERUS COSTARUM	0.03	0.06	0.17	0.07
CIRRATULIDAE, UNID.	0.00	0.01	0.01	0.01
CAULLERIELLA ALATA	0.00	0.00	0.02	0.00
CHAETOZONE SETOSA	0.67	0.86	0.53	0.65
CIRRIFORMIA SPIRABRANCHIA	0.00	0.00	0.00	0.01
THARYX SP.	0.11	0.10	0.13	0.14
CIRRIFORMIA SP.	0.00	0.00	0.00	0.01
COSSURA CANDIDA	0.01	0.00	0.03	0.03
ARMANDIA BICULATA	0.00	0.01	0.00	0.00
POLYOPHTHALMUS PICTUS	0.00	0.00	0.01	0.00
TRAVISIA GIGAS	0.04	0.01	0.02	0.01
CAPITELLIDAE, UNID.	0.00	0.00	0.01	0.01
CAPITELLA CAPITATA	0.01	0.00	0.00	
MEDIOMASTUS AMBISETA	3.61	4.92	2.94	3.24
MEDIOMASTUS ACUTUS	1.39	0.76	0.89	0.66
MEDIOMASTUS CALIFORNIENSIS	0.21	0.16	0.29	0.37
NOTOMASTUS TENUIS	0.01	0.02	0.06	0.05
NOTOMASTUS SP.	0.01	0.00	0.00	0.00
MEDIOMASTUS SP.	0.03	0.05	0.10	0.05
ANOTOMASTUS GORDIODES	0.06	0.03	0.06	0.04
ANASTIGOS ACUTUS	3.01	2.75	14.28	8.22
MALDANIDAE, UNID.	0.02	0.02	0.03	0.01

Table III-1. Subtidal master species list summary table. Concentrations expressed as mean number per liter (Cont).

SPECIES NAME	FEB	MAY	AUG	NOV
ANNELIDA				
POLYCHAETA				
SEDENTARIA				
ASYCHIS DISPARIDENTATA	0.00	0.05	0.10	0.10
AXIOHELLA RUBROCINCTA	0.01	0.02	0.02	0.03
PRAXILLELLA AFFINIS PACIFICA	0.00	0.00	0.00	0.01
EUCLYMENE DELINEATA	0.00	0.00	0.01	0.00
OKENIA COLLARIS	0.23	0.63	0.16	0.08
SABELLARIA NANELLA	0.00	0.00	0.33	0.01
PECTINARIA CALIFORNIENSIS	0.18	0.47	0.21	0.18
AMPHARETIDAE, UNID.	0.00	0.03	0.00	0.07
AMPHARETE LABRUPS	0.09	0.27	0.11	0.20
AMPHICTEIS SCAPHOBRANCHIATA	0.03	0.02	0.05	0.02
MELINNA OCULATA	0.00	0.00	0.01	0.00
TEREBELLIDAE, UNID.	0.03	0.05	0.02	0.01
AMAEANA OCCIDENTALIS	0.48	0.76	0.38	0.20
LOIMIA MEDUSA	0.00	0.02	0.02	0.01
PISTA DISJUNCTA	0.00	0.04	0.00	0.00
PISTA FASCIATA	0.10	0.22	0.31	0.12
PISTA SP.	0.01	0.01	0.01	0.00
POLYCIRRUS SP.	0.00	0.09	0.09	0.01
STREBLOSOMA CRASSIBRANCHIA	0.00	0.02	0.03	0.02
POLYCIRRUS PERPLEXUS	0.17	0.00	0.00	0.02
SABELLIDAE, UNID.	0.01	0.00	0.01	0.02
CHONE MOLLIS	0.03	0.02	0.02	0.01
CHONE SP.	0.01	0.00	0.01	0.00
EUCHONE INCOLOR	0.05	0.04	0.05	0.09
MEGALOMA PIGMENTUM	0.00	0.00	0.01	0.00
CHONE VLERONIS	0.00	0.00	0.00	0.01
EUPOMATUS SP.	0.01	0.00	0.00	0.00
SCALIBREGMA INFLATUM	0.00	0.00	0.00	0.01
SIPUNCULOIDEA				
SIPUNCULIDA, UNID.	0.04	0.00	0.01	0.02
SIPUNCULID SP. A	0.01	0.01	0.01	0.00
SIPUNCULID SP. B	0.02	0.07	0.01	0.00
SIPUNCULID SP. C	0.08	0.02	0.08	0.00
SIPUNCULID SP. D	0.01	0.01	0.00	0.00
SIPUNCULID SP. E	0.00	0.01	0.00	0.00
GOLFINGIA MISAKIANA	0.00	0.00	0.00	0.11
GOLFINGIA SP.	0.00	0.00	0.01	0.00
ARTHROPODA				
PYCNOGONIDA				
PYCNOGONIDA, UNID.	0.01	0.04	0.06	0.05
NYMPHON HETERODENTICLLATUM	0.00	0.00	0.01	0.00
CALLIPALLENE SP.	0.00	0.03	0.01	0.00
PALLENE SP.	0.02	0.00	0.00	0.00
CALLIPALLENE PALPIDA	0.00	0.00	0.00	0.20
ARTHROPODA				
CRUSTACEA				
OSTRACODA				
CYLINDROLEBERIIDAE, UNID.	0.13	0.31	0.16	0.10
BAIRDIIDAE A, UNID.	0.00	0.00	0.00	0.01
EUPHILOMEDES LONGISETA	0.26	0.62	0.79	0.21
EUPHILOMEDES CARCHARODONTA	0.45	0.79	0.57	0.22
EUPHILOMEDES SP.	0.03	0.03	0.05	0.02
OSTRACODA, UNID.	0.00	0.00	0.01	0.00
RUTIDERMA ROSTRATA	0.04	0.02	0.03	0.03
EUPHILOMEDES ORLONGA	0.01	0.00	0.00	0.00
ASTEROPELLA SP. S	0.01	0.01	0.01	0.01
PARADOXOSTOMATINAE A, UNID.	0.00	0.00	0.01	0.00
CYCLOLEBERIS AMERICANA	0.01	0.02	0.09	0.02
PCDOCUPIDA, UNID.	0.00	0.00	0.01	0.00
RUTIDERMA JUDAYI	0.00	0.00	0.02	0.00
VARGULA AMERICANA	0.00	0.00	0.00	0.01

Table III-1. Subtidal master species list summary table. Concentrations expressed as mean number per liter (Cont).

SPECIES NAME	FEB	MAY	AUG	NOV
ARTHROPODA				
CRUSTACEA				
COPEPODA				
CYCLOPOIDAE				
CYCLOPIDA, UNID.	0.01	0.02	0.01	0.00
ARTHROPODA				
CRUSTACEA				
COPEPODA				
HARPACTICOIDEA				
HARPACTICOIDA, UNID.	0.03	0.01	0.01	0.03
ARTHROPODA				
CRUSTACEA				
COPEPODA				
CALANOIDA				
CALANOIDA, UNID.	0.05	0.11	0.11	0.05
ARTHROPODA				
CRUSTACEA				
CIRRIPEDIA				
CIRRIPEDIA, UNID.	0.00	0.00	0.00	0.01
MFGABALANUS CALIFORNICUS	0.00	0.01	0.00	0.00
BALANUS SP.	0.00	0.01	0.00	0.00
ARTHROPODA				
CRUSTACEA				
MALACOSTRACA				
NEBALIACFA				
NEBALIACFA, UNID.	0.01	0.00	0.00	0.00
NEHALIA SP.	0.00	0.00	0.03	0.01
ARTHROPODA				
CRUSTACEA				
MALACOSTRACA				
MYSIDACEA				
MYSIDA				
ACANTHOMYSIS COSTATA	0.01	0.00	0.00	0.00
MYSIDOPSIS CALIFORNICA	0.00	0.01	0.00	0.01
METAMYSIDOPSIS ELONGATA	0.00	0.00	0.01	0.00
ARTHROPODA				
CRUSTACEA				
MALACOSTRACA				
MYSIDACEA				
MYSIDACEA, UNID.	0.01	0.00	0.05	0.00
ARTHROPODA				
CRUSTACEA				
MALACOSTRACA				
CUMACEA				
CUMACEA, UNID.	0.01	0.01	0.01	0.01
CYCLASPIS NUHILA	0.03	0.11	0.18	0.05
CYCLASPIS SP. B	0.00	0.01	0.03	0.01
CYCLASPIS SP. C	0.02	0.01	0.04	0.04
ANCHICOLURUS OCCIDENTALIS	0.01	0.08	0.14	0.03
LAMPROPS CARINATA	0.00	0.03	0.01	0.00
DIASTYLOPSIS TENUIS	0.20	0.55	3.78	0.92
LAMPROPS QUADRIPLICATA	0.00	0.00	0.01	0.00
HEMILAMPROPS CALIFORNICA	0.12	0.14	0.19	0.16
CAMPYLASPIS SP. C	0.04	0.09	0.06	0.06
CAMPYLASPIS SP. B	0.00	0.01	0.00	0.00
CAMPYLASPIS SP.	0.01	0.00	0.00	0.00
CUMELLA SP.	0.00	0.00	0.03	0.00
CUMELLA SP. A	0.03	0.10	0.04	0.02
OXYUROSTYLIS PACIFICA	0.06	0.21	0.17	0.07
LEPTOCUMA FORSMANI	0.05	0.11	0.24	0.06
LEPTOSTYLIS SP. A	0.00	0.00	0.00	0.01
CUMELLA SP. F	0.00	0.00	0.00	0.01

Table III-1. Subtidal master species list summary table. Concentrations expressed as mean number per liter (Cont).

SPECIES NAME	FEB	MAY	AUG	NOV
ARTHROPODA				
CRUSTACEA				
MALACOSTRACA				
TANAIDACEA				
LEPTOCHELIA SP.	0.01	0.00	0.00	0.01
ARTHROPODA				
CRUSTACEA				
MALACOSTRACA				
ISOPODA				
GNATHIIDEA				
GNATHIA SP.	0.00	0.00	0.00	0.01
ARTHROPODA				
CRUSTACEA				
MALACOSTRACA				
ISOPODA				
FLABELLIFERA				
BATHYCOPEA GRANULATUS	0.12	0.08	0.10	0.05
EXOSPHAEROMA RHOMBURUM	0.00	0.01	0.00	0.01
EXOSPHAEROMA SP.	0.00	0.00	0.01	0.00
ARTHROPODA				
CRUSTACEA				
MALACOSTRACA				
ISOPODA				
VALVIFERA				
IDOTEA RESECATA	0.00	0.00	0.01	0.00
IDOTEA SUBLITTORALIS	0.22	0.24	0.41	0.11
IDOTEA SP. A	0.01	0.00	0.00	0.00
ARTHROPODA				
CRUSTACEA				
MALACOSTRACA				
ISOPODA				
ASELLOTA				
MUNNA URIQUITA	0.00	0.02	0.04	0.05
ARTHROPODA				
CRUSTACEA				
MALACOSTRACA				
ISOPODA				
ANTHURIDEA				
PARANTHURA ELEGANS	0.01	0.00	0.00	0.00
ARTHROPODA				
CRUSTACEA				
MALACOSTRACA				
AMPHIPODA				
GAMMARIDEA				
AMPELISCA CRISTATA	0.03	0.24	0.49	0.40
AMPELISCA SP.	0.01	0.00	0.01	0.00
AMPELISCA BREVISIMULATA	0.01	0.00	0.00	0.00
AMPELISCA COMPRESSA	0.01	0.25	0.17	0.26
AMPHILOCHUS NEAPOLITANUS	0.00	0.01	0.00	0.00
AMPHILOCHUS LITORALIS	0.00	0.01	0.01	0.00
ADROIDES COLUMBIJAE	0.00	0.02	0.02	0.03
ACUMINODEUTOPIUS HETEROPUS	0.05	0.05	0.10	0.14
RUDILEMBOIDES STENOPROPODUS	0.01	0.00	0.05	0.02
AMPHIDEUTOPIUS OCULATUS	0.01	0.02	0.05	0.05
ARGISSA HAMATIPES	0.14	0.36	0.13	0.04
ATYLLUS TRIDENS	0.00	0.01	0.02	0.00
BATEA TRANSVERSA	0.01	0.00	0.00	0.00
CERAPUS TUBULARIS	0.02	0.02	0.08	0.03
COROPHIUM SP.	0.00	0.00	0.01	0.01
ERICTHONIUS BRASILIENSIS	0.01	0.05	0.02	0.03



Table III-1. Subtidal master species list summary table. Concentrations expressed as mean number per liter (Cont).

SPECIES NAME	FEB	MAY	AUG	NOV
ARTHROPODA				
CRUSTACEA				
MALACOSTRACA				
AMPHIPODA				
GAMMARIDFA				
COROPHIUM BACONI	0.00	0.00	0.03	0.00
CHEIRIPHOTIS MEGACHELIS	0.00	0.00	0.00	0.01
ELASMOPUS HOLGURUS	0.01	0.00	0.00	0.00
MEGALUROPIUS LONGIMFRUS	0.01	0.10	0.24	0.09
EOHAUSTORIUS WASHINGTONIANUS	0.05	0.14	0.14	0.12
GAMMAROPSIS SP.	0.01	0.00	0.00	0.00
GAMMAROPSIS THOMPSONI	0.01	0.00	0.00	0.01
PHOTIS SP.	0.07	0.46	0.50	0.11
PHOTIS BREVIPES	0.00	0.00	0.02	0.00
PHOTIS CALIFORNICA	0.00	0.08	0.09	0.01
PHOTIS CONCHICOLA	0.00	0.00	0.00	0.01
PHOTIS LACIA	0.00	0.01	0.01	0.01
PHOTIS MACROTICA	0.04	0.25	0.14	0.02
ISCHYRO CERIDAE, UNID.	0.01	0.00	0.00	0.00
ISCHYRO CERUS ANGUIPES	0.00	0.00	0.01	0.00
JASSA FALCATA	0.83	1.08	3.48	1.92
ISCHYRO CERUS SP.	0.02	0.00	0.00	0.00
MICROJASSA LITOTES	0.00	0.00	0.01	0.01
ISCHYRO CERUS LITOTES	0.00	0.00	0.00	0.01
LISTRIELLA MELANICA	0.02	0.01	0.00	0.00
LISTRIELLA GOLFTA	0.00	0.01	0.02	0.00
LISTRIELLA FRIOPISA	0.00	0.01	0.01	0.01
LISTRIELLA DIFFUSA	0.01	0.01	0.01	0.01
HIPPOMEDON SP.	0.01	0.00	0.00	0.01
PACHYNIUS HARNARDI	0.03	0.02	0.03	0.06
LEPIDEPECREUM GURJANGVAE	0.00	0.01	0.00	0.02
HIPPOMEDON DENTICULATUS	0.00	0.01	0.20	0.00
MELPHISANA BOLA	0.00	0.02	0.01	0.01
SYNHELIDIUM SP.	0.06	0.18	0.21	0.25
MONOCULODES HARTMANAE	0.03	0.08	0.07	0.02
PHOXOCEPHALIDAE, UNID.	0.00	0.00	0.16	0.03
MANDIBULOPHOXUS UNCIROSTRATUS	0.01	0.01	0.00	0.00
PARAPHOXUS SP.	0.07	0.02	0.00	0.01
RHEPOXYNIUS ABRONIOUS	0.02	0.02	0.16	0.21
RHEPOXYNIUS BICUSPIDATUS	0.19	0.24	0.49	0.33
RHEPOXYNIUS FISTOMUS	0.47	1.24	1.05	1.14
RHEPOXYNIUS HETEROCUSPIDATUS	0.01	0.01	0.01	0.00
RHEPOXYNIUS LUCUBRANS	0.00	0.00	0.04	0.01
PARAPHOXUS STENODES	0.01	0.00	0.06	0.03
PARAPHOXUS VARIATUS	0.01	0.04	0.03	0.09
METHARPINIA FLORIDANA	0.00	0.00	0.01	0.00
RHEPOXYNIUS OAHOUIS	0.00	0.00	0.01	0.00
RHEPOXYNIUS SP.	0.00	0.00	0.01	0.00
PARAPLEUSTES PUGETTENSIS	0.04	0.00	0.00	0.01
PODOPUS SP.	0.00	0.00	0.01	0.00
STENOHOEIDAE, UNID.	0.00	0.00	0.01	0.01
STENOHOE FSTACOLA	0.01	0.02	0.10	0.03
TIRON BICELLATA	0.00	0.01	0.00	0.01
TIRON TROPAKIS	0.02	0.12	0.68	0.23
GAMMARIDFA, UNID.	0.06	0.05	0.09	0.06
ARTHROPODA				
CRUSTACEA				
MALACOSTRACA				
AMPHIPODA				
CAPRELLIDFA				
CAPRELLIDAE, UNID.	0.00	0.03	0.00	0.11
DEUTFLA CALIFORNICA	0.00	0.01	0.00	0.03
CAPRELLA CALIFORNICA	0.01	0.04	0.01	0.03
CAPRELLA VERRUCOSA	0.00	0.01	0.00	0.01
CAPRELLA SP.	0.01	0.01	0.01	0.01
TRITELLA LAEVIS	0.00	0.00	0.01	0.00
TRITELLA SP.	0.00	0.00	0.00	0.01

Table III-1. Subtidal master species list summary table. Concentrations expressed as mean number per liter (Cont).

SPECIES NAME	FEB	MAY	AUG	NOV
ARTHROPODA				
CRUSTACEA				
MALACOSTRACA				
AMPHIPODA				
AMPHIPODA, UNID.	0.00	0.00	0.01	0.00
ARTHROPODA				
CRUSTACEA				
MALACOSTRACA				
DECAPODA				
PENAEIDEA				
OGYRIDES SP. A	0.04	0.03	0.15	0.05
ARTHROPODA				
CRUSTACEA				
MALACOSTRACA				
DECAPODA				
CARIDEA				
HEPTACARPUS TAYLORI	0.00	0.01	0.01	0.00
HIPPOLYTE CLARKI	0.00	0.01	0.00	0.00
ALPHEIDAE, UNID.	0.00	0.00	0.01	0.00
ARTHROPODA				
CRUSTACEA				
MALACOSTRACA				
DECAPODA				
ANOMURA				
CALLIANASSA SP.	0.00	0.07	0.11	0.06
CALLIANASSA SP. MEGALOPS	0.00	0.01	0.00	0.00
PAGURIDAE, UNID.	0.00	0.01	0.10	0.00
TSOCHELES PLOSUS	0.01	0.04	0.03	0.01
PAGURISTES SP.	0.00	0.01	0.00	0.00
ARTHROPODA				
CRUSTACEA				
MALACOSTRACA				
DECAPODA				
BRACHYURA				
MAJIDAE, UNID.	0.00	0.00	0.00	0.01
CANCER ANTENNARIUS	0.00	0.00	0.01	0.00
CANCER GRACILIS	0.00	0.03	0.02	0.01
CANCER SP.	0.01	0.00	0.00	0.00
PINNIXA FRANCISCANA	0.01	0.00	0.02	
PINNIXA SP.	0.02	0.11	0.05	0.03
HEMIGRAPUS SP.	0.00	0.01	0.00	0.00
RANDALLIA ORNATA	0.00	0.00	0.01	0.00
LEPIDOPA CALIFORNICA	0.00	0.01	0.03	0.01
BRACHYURA, UNID.	0.00	0.01	0.00	0.00
BRACHYURA, MEGALOPS, UNID.	0.00	0.00	0.01	0.00
OXYRHYNCHA, UNID.	0.00	0.00	0.01	0.00
ARTHROPODA				
CRUSTACEA				
MALACOSTRACA				
DECAPODA				
NATANTIA, UNID.	0.00	0.01	0.00	0.00
DECAPODA, MEGALOPS, UNID.	0.01	0.00	0.01	0.00
MOLLUSCA				
GASTROPODA				
MESOGASTROPODA				
CAECUM CALIFORNICUM	0.01	0.00	0.01	0.00
CAECUM CREBRICINCTUM	0.01	0.02	0.00	0.00
EPITONIUM TINCTUM	0.00	0.00	0.01	0.00
EPITONIUM SP.	0.00	0.00	0.01	0.00
EPITONIUM CALIFORNICUM	0.00	0.00	0.01	0.04
BALCIS OLDROYDI	0.00	0.01	0.00	0.01
BALCIS RUTILA	0.01	0.00	0.00	0.00
CREPIDULA NATICARUM	0.00	0.00	0.00	0.01
CREPIDULA NORRISIARUM	0.00	0.00	0.01	0.00
CREPIDULA SP.	0.01	0.00	0.01	0.09
NEVERITA RECLUZIANA	0.02	0.01	0.05	0.01

Table III-1. Subtidal master species list summary table. Concentrations expressed as mean number per liter (Cont).

SPECIES NAME	FEB	MAY	AUG	NOV
MOLLUSCA				
GASTROPODA				
NEOGASTROPODA				
ALIA CARINATA	0.00	0.00	0.01	0.00
NASSARIUS FOSSATUS	0.00	0.00	0.01	0.00
NASSARIUS PERPINGUIS	0.01	0.02	0.06	0.08
NASSARIUS SP.	0.00	0.00	0.13	0.00
OLIVELLA BAETICA	0.70	1.41	0.68	0.82
OLIVELLA BIPPLICATA	0.00	0.01	0.01	0.01
OLIVELLA SP.	0.00	0.02	0.04	0.02
KURTZIELLA PLUMBREA	0.08	0.08	0.04	0.05
KURTZIELLA BETA	0.00	0.00	0.00	0.01
OPHIODERMELLA INERMIS	0.00	0.00	0.00	0.01
OPHIODERMELLA CANCELLATA	0.00	0.00	0.01	0.00
MOLLUSCA				
GASTROPODA				
OPISTHOBRANCHIA				
RICTAXIS PUNCTOCAELATUS	0.00	0.00	0.01	0.02
HAMINGEA VESICULA	0.01	0.00	0.00	0.00
SULCORETUSA XYSTRUM	0.10	0.11	0.10	0.02
AGLAJA OCELLIGERA	0.01	0.01	0.00	0.00
ACTEOCINA CULCITELLA	0.01	0.00	0.01	0.00
ACTEOCINA HARPA	0.00	0.02	0.02	0.03
ACTEOCINA INCULTA	0.00	0.01	0.00	0.01
CYLICHNA DIEGENSIS	0.00	0.00	0.00	0.01
PHILINE SP.	0.00	0.01	0.00	0.00
GASTROPTERON PACIFICUM	0.02	0.00	0.00	0.00
VOLVULELLA CYLINDRICA	0.00	0.00	0.00	0.01
AGLAJA DIOMEDA	0.02	0.05	0.03	0.01
DIRONA PICTA	0.00	0.01	0.00	0.00
HERMISSENDA CRASSICORNIS	0.01	0.00	0.00	0.01
AFOLIDOIDEA, UNID.	0.01	0.00	0.00	0.00
DENDRONOTUS SP.	0.02	0.00	0.00	0.00
DOTO SP.	0.00	0.00	0.00	0.01
ODOSTOMIA SP.	0.00	0.01	0.00	0.00
TURRONILLA SP. A	0.00	0.00	0.00	0.01
TURRONILLA SP. F	0.01	0.00	0.03	0.02
ODOSTOMIA SP. C	0.01	0.00	0.01	0.00
TURRONILLA CASTANEA	0.00	0.00	0.01	0.00
TURRONILLA SP. J	0.01	0.00	0.03	0.01
TURRONILLA SP. L	0.00	0.02	0.00	0.03
CYCLOSTREMELLA DALLI	0.01	0.01	0.02	0.01
TURRONILLA SP. M	0.00	0.00	0.00	0.01
ODOSTOMIA SP. E	0.00	0.00	0.01	0.00
MOLLUSCA				
GASTROPODA				
GASTROPODA, UNID.	0.01	0.00	0.02	0.00
MOLLUSCA				
PELECYPODA				
NUCULOIDA				
NUCULANA TAPHRIA	0.01	0.01	0.00	0.00
YOLDIA SCISSURATA	0.19	0.39	0.44	0.07
MOLLUSCA				
PELECYPODA				
MYTILIDA				
MYTILUS EDULIS	0.00	0.01	0.00	0.00
MODIOLUS SP.	0.02	0.00	0.00	0.01
MODIOLUS NEGLECTUS	0.01	0.01	0.06	0.03
MYTILIDAE, UNID.	0.02	0.05	0.05	0.06

Table III-1. Subtidal master species list summary table. Concentrations expressed as mean number per liter (Cont).

SPECIES NAME	FEB	MAY	AUG	NOV
MOLLUSCA				
PELECYPODA				
PTERIOIDA				
LEPTOPECTEN LATIAURATUS	0.00	0.01	0.01	0.01
MOLLUSCA				
PELECYPODA				
VENEROIDA				
LUCINA NUTTALLI	0.00	0.01	0.05	0.00
PARVILUCINA TENUISCUPTA	0.00	0.00	0.00	0.04
LUCINOMA ANNULATA	0.02	0.00	0.01	0.01
MYSELLA GOLISCHI	0.00	0.03	0.00	0.01
MYSELLA PEDROANA	0.01	0.02	0.01	0.06
MYSELLA GRIPPI	0.00	0.05	0.00	0.01
MYSELLA SP. F	0.00	0.01	0.04	0.02
NEAFROMYA CHACFI	0.00	0.01	0.00	0.00
PLATOMYSIA MEROFUM	0.01	0.00	0.00	0.00
NEAFROMYA COMPRESSA	0.03	0.13	0.11	0.03
RHAMPHIDONTA RETIFERA	0.00	0.00	0.05	0.02
CARDIIDAE, UNID.	0.00	0.00	0.00	0.01
CLINOCARDIUM NUTTALLII	0.00	0.01	0.00	0.00
TIVELA STULTORUM	0.00	0.00	0.01	0.00
COMPSOMYX SUBDIAPHANA	0.00	0.01	0.01	0.00
CHIONE SP.	0.00	0.01	0.04	0.00
PETRICOLA TELLIMYALIS	0.01	0.00	0.00	0.00
PETRICOLA SP.	0.00	0.00	0.02	0.00
COOPENELLA SUBDIAPHANA	0.09	0.37	0.05	0.05
AMTANTIS CALLOSA	0.02	0.01	0.01	0.01
MACRIDAE, UNID.	0.01	0.03	0.03	0.01
SPIGULA CATILLIFORMIS	0.01	0.00	0.00	0.00
TELLINIDAE, UNID.	0.00	0.00	0.00	0.01
TELLINA BODEGENSIS	0.02	0.00	0.00	0.00
TELLINA CARPENTERI	0.01	0.00	0.00	0.01
TELLINA IDAF	0.00	0.03	0.00	0.00
TELLINA MODESIA	1.32	1.49	1.79	1.42
TELLINA SP.	0.05	0.00	0.00	0.00
MACOMA ACOLASTA	0.01	0.02	0.05	0.02
MACOMA INDENTATA	0.00	0.04	0.01	0.00
MACOMA YOLDIFORMIS	0.00	0.04	0.01	0.02
MACOMA SP.	0.33	0.18	0.35	0.06
DONAX GOULDII	0.00	0.00	0.01	0.00
MACOMA CARLOTTENSIS	0.00	0.00	0.01	0.00
SOLEN ROSACEUS	0.01	0.00	0.05	0.00
SOLEN SICARIUS	0.00	0.01	0.03	0.00
SOLEN SP.	0.00	0.01	0.00	0.00
ENSIS MYRAE	0.00	0.00	0.00	0.01
SILINUA LUCIDA	0.01	0.51	0.26	0.02
MOLLUSCA				
PELECYPODA				
MYOIDA				
HIATELLA ARCTICA	0.00	0.01	0.01	0.00
MOLLUSCA				
PELECYPODA				
PHOLADOMYOIDA				
PANDORA SP.	0.00	0.00	0.01	0.00
PERIPLOMA DISCUS	0.00	0.00	0.01	0.11
PERIPLOMA PLANIUSCULUM	0.13	0.08	0.17	0.00

Table III-1. Subtidal master species list summary table. Concentrations expressed as mean number per liter (Cont).

SPECIES NAME	FEB	MAY	AUG	NOV
MOLLUSCA				
PELECYPODA				
PELECYPODA, UNID.	0.01	0.01	0.01	0.01
MOLLUSCA				
SCAPHOPODA				
DENTALIIDAE				
DENTALIUM SP.	0.00	0.01	0.00	0.00
DENTALIIDAE, UNID.	0.01	0.00	0.00	0.00
MOLLUSCA				
SCAPHOPODA				
SIPHONODENTALIIDAE				
CADULUS FUSIFORMIS	0.00	0.00	0.05	0.02
MOLLUSCA				
SCAPHOPODA				
SCAPHOPODA, UNID.	0.00	0.00	0.01	0.00
PHORONIDA				
PHORONIDA, UNID.	0.02	0.15	0.05	0.05
PHORONIS SP.	0.06	0.02	0.03	0.11
ECTOPROCTA				
CTENOSTOMATA				
ANGUINELLA PALMATA	0.00	0.00	0.01	0.00
VICTORELLA ARGILLA	0.00	0.00	0.00	0.01
ECTOPROCTA				
ECTOPROCTA, UNID.	0.01	0.00	0.00	0.00
BRANCHIOPODA				
GLOTTIDIA ALBIDA	0.00	0.12	0.04	0.03
ECHINODERMATA				
ASTEROIDEA				
ASTROPECTEN VERRILLI	0.00	0.00	0.00	0.01
ECHINODERMATA				
OPHIUROIDEA				
OPHIUROIDEA, UNID.	0.12	0.09	0.02	0.05
OPHIOPHRAGMUS DIGITATA	0.03	0.03	0.03	0.06
DIAMPHIODIA OCCIDENTALIS	0.01	0.01	0.01	0.00
OPHIOPHRAGMUS URTICA	0.00	0.02	0.03	0.01
AXIOGNATHUS SQUAMATA	0.00	0.00	0.01	0.00
AXIOGNATHUS PUGETANA	0.00	0.00	0.02	0.02
OPHIOPHRAGMUS SP.	0.00	0.00	0.00	0.01
ECHINODERMATA				
ECHINOIDEA				
ECHINOIDEA, UNID.	0.03	0.02	0.00	0.00
DENDRASTER EXCENTRICUS	0.01	0.08	0.03	0.03
LOVENIA CORDIFORMIS	0.00	0.01	0.00	0.01
ECHINODERMATA				
HOLOTHUROIDEA				
LEPTOSYNAPTA SP. B	0.00	0.01	0.00	0.00
LEPTOSYNAPTA SP.	0.01	0.01	0.00	0.01
HEMICHORDATA				
HEMICHORDATA, UNID.	0.14	0.14	0.21	0.21
CHAETOGNATHA				
CHAETOGNATHA, UNID.	0.11	0.03	0.00	0.00
CHORDATA				
CEPHALOCHORDATA				
BRANCHIOSTOMA CALIFORNIENSE	0.01	0.00	0.00	0.00
CHORDATA				
VERTEBRATA				
OSTEIFICHTHYS				
PISCES EGG, UNID.	0.01	0.00	0.00	0.00

Table III-2. Subtidal infaunal species density (mean number per liter)  
by replicate, February 1979.

STATION A1  
13 February 1979

SPECIES	REPLICATES					MEAN
	1	2	3	4	5	
NEMERTEA, UNID.	1	0	1	0	0	0.40
NEMATODA, UNID.	0	0	1	0	0	0.20
STHENELAIS VERRUCULOSA	1	0	0	0	0	0.20
ETEONE ALBA	0	0	1	0	0	0.20
LUMBRINERIS SP.	0	0	0	0	1	0.20
HAPLOSCOLOPLOS ELONGATUS	0	0	0	0	1	0.20
APOPRIONOSPION PYGMAEUS	7	4	6	8	7	6.40
SPIOPHAKES MISSIONENSIS	1	0	0	0	0	0.20
MAGELONA SP.	0	0	1	0	0	0.20
MEDIOMASTUS SP.	0	1	0	0	0	0.20
AMASTIGOS ACUTUS	2	3	0	0	0	1.00
PALLAS SP.	0	0	1	0	0	0.20
EUPHILICHOES CARCHARODONTA	0	0	0	2	3	1.00
DIASYLIPSIS TENUIIS	6	3	7	1	2	3.80
LEPTOCUMA FORSMANII	0	1	1	0	2	0.80
HEPOXYNIUS BICUSPIDATUS	0	0	0	0	2	0.40
MACOMA SP.	1	1	1	0	1	0.80

Table III-2. Subtidal infaunal species density (mean number per liter) by replicate, February 1979 (Cont).

STATION A2 13 February 1979

SPECIES	REPLICATES												MEAN
	1	2	3	4	5	6	7	8	9	10	11	12	
NEMERTEA, UNID.	0	1	2	1	0	1	1	1	4	2	5	2	1.67
STHENELEIS VERRUCULOSA.	0	0	0	0	0	0	0	0	0	0	1	0	0.08
FUSIGALION SPINOSUM	0	0	0	0	0	0	0	0	0	0	1	0	0.08
ETIOPNE ALBA	0	0	0	0	1	0	0	0	0	0	0	0	0.08
NEPHTYS CAECOIDES	0	1	1	0	0	0	0	1	0	0	0	0	0.25
GLYCERA CONVOLUTA	0	0	0	0	0	0	0	0	0	0	1	0	0.08
GONIADA LITTOREA	1	0	1	0	0	1	0	0	0	0	1	1	0.42
CNUPHIDAE, UNID.	0	0	0	0	0	0	0	0	1	0	0	0	0.08
CNUPHIS FREMITA	0	1	0	0	0	0	0	0	0	0	0	0	0.08
LUMBRINERIS TETRAURA	1	0	1	0	1	0	1	0	4	2	2	2	1.17
LUMBRINERIS SP.	0	0	0	0	0	0	0	0	0	0	2	0	0.17
HAPLOSCOLOPLUS ELONGATUS	1	1	0	1	0	1	0	0	0	0	0	0	0.33
SCOLOPIOS ARMIGER	7	0	0	2	2	3	0	0	1	1	1	1	1.50
ACESTA CATHERINAE	1	0	0	0	1	0	1	0	2	0	1	0	0.50
DISPIDO UNCINATA	0	0	0	0	0	0	0	0	0	1	0	0	0.08
PRIONOSPPIO CIRRIFERA	0	0	0	0	0	5	0	0	0	0	3	0	0.67
PARAPRIONOSPPIO PINNATA	0	0	0	0	0	0	1	0	2	1	0	1	0.42
APOPRIONOSPPIO PYGMAEUS	0	0	0	0	0	0	0	0	1	2	0	1	0.33
SPIOPHANES BOMBYX	1	5	1	1	2	2	0	1	3	0	5	1	1.83
SPIOPHANES MISSIONENSIS	0	0	0	0	0	1	0	1	0	0	0	0	0.17
CHAETAZONE SETOSA	0	0	0	0	0	0	0	1	0	1	0	0	0.17
TRAVISTA GIGAS	0	0	0	0	0	0	0	0	1	0	0	0	0.08
MEDIOMASTUS AMBISETA	2	3	2	0	2	1	1	1	5	5	1	3	2.17
MEDIOMASTUS ACUTUS	0	1	1	0	1	1	0	0	0	0	0	0	0.33
MEDIOMASTUS CALIFORNIENSIS	0	0	0	0	0	1	0	0	1	0	0	0	0.17
ANASTIGES ACUTUS	1	2	7	0	6	3	1	0	2	0	4	0	2.17
OWENIA COLLARIS	0	0	1	1	0	0	0	0	0	0	0	0	0.17
PECTINARIA CALIFORNIENSIS	0	0	0	0	1	1	0	0	0	1	0	0	0.25
AMPHARETE LARRIPS	0	0	0	1	0	0	0	0	0	0	0	0	0.08
AMPHICTEIS SCAPHOBRANCHIATA	0	1	0	0	0	0	0	0	0	0	0	0	0.08
AMAEANA OCCIDENTALIS	0	0	2	0	1	0	0	2	1	2	0	1	0.75
PISTA FASCIATA	0	0	0	0	1	0	0	0	0	0	0	0	0.08
SIPUNCULIDA, UNID.	0	0	0	0	0	0	0	0	0	0	1	0	0.08
PYCNOGONIDA, UNID.	0	0	0	0	0	0	0	0	0	0	1	0	0.08
CYLINDROLEBERINIDAE, UNID.	0	0	0	0	0	1	0	0	0	0	1	0	0.17
EUPHILOMEDES CARCHAODONTA	0	0	0	2	0	0	0	0	0	0	0	0	0.17
CYCLASPIS SP. C	0	0	0	0	0	1	0	0	0	0	0	0	0.08
DIASTYLOPSIS TENUIS	0	0	0	0	0	0	0	1	0	0	0	0	0.08
PATHYCOPEA GRANULATUS	0	1	0	0	0	0	0	0	0	0	0	0	0.08
EDOTEA SUBLITTORALIS	0	0	0	0	0	2	0	0	0	2	0	0	0.33
ERICHTHONIUS BRASILIENSIS	1	0	0	0	0	0	0	0	0	0	0	0	0.08
PHOTIS SP.	2	0	0	2	0	1	0	0	0	0	0	0	0.42
PHOTIS MACROTICA	1	0	1	1	0	1	0	0	0	0	0	0	0.33
ISCHYROCEFRIDAE, UNID.	0	0	1	0	0	0	0	0	0	0	0	0	0.08
JASSA FALCATA	0	0	0	4	0	0	0	0	0	1	0	0	0.42
RHEPOXYNIUS FRISTOMUS	0	0	0	0	0	2	0	0	0	1	0	0	0.25
TIRON TROPAKIS	0	0	0	1	0	0	0	0	0	0	0	0	0.08
EGYRIDES SP. A	0	0	0	0	0	0	0	0	0	0	2	0	0.17
OLIVELLA BAETICA	0	0	0	3	0	0	0	0	1	1	1	1	0.58
KURTZIELLA PLUMBEA	0	0	0	0	0	0	0	0	0	1	0	0	0.08
HAMINEA VESICULA	0	0	0	0	0	0	0	0	0	1	0	0	0.08
SULCORETUSA XYSTRUM	0	0	0	2	0	0	0	0	0	0	0	0	0.17
MUCULANA TAPHRIA	0	0	0	0	0	1	0	0	0	0	0	0	0.08
YLODIA SCISSURATA	0	0	0	1	0	0	0	0	0	0	0	0	0.08
TPELLINA MODESTA	0	0	0	2	0	0	0	1	0	0	0	2	0.42
TPELLINA SP.	0	0	0	0	0	0	1	0	0	0	0	0	0.08
MACOMA SP.	0	0	0	0	1	0	0	0	0	0	0	0	0.08
PHORONIS SP.	0	0	0	0	1	0	0	0	0	0	0	0	0.08
LEPTOSYNAPTA SP.	0	0	0	0	0	1	0	0	1	0	0	0	0.17

Table III-2. Subtidal infaunal species density (mean number per liter) by replicate, February 1979 (Cont.).

STATION A3		13 February 1979											
SPECIES	REPLICATES												MEAN
	1	2	3	4	5	6	7	8	9	10	11	12	
HYDROZOA, UNID.	0	0	0	0	0	0	0	0	0	1	0	0	0.08
PLATYHELMINTHES, UNID.	0	0	2	0	0	0	0	0	0	0	0	0	0.17
NEMERTEA, UNID.	0	2	2	0	2	2	1	3	0	1	0	3	1.33
HARMOThOE PRIOPS	0	0	1	0	0	1	0	1	1	0	0	0	0.33
FUSIGALION SPINOSUM	0	0	1	0	1	0	0	0	1	0	1	1	0.42
EUMIDA SANGUTNEA	0	1	0	0	0	0	0	0	0	0	0	0	0.08
HESSIONELLA MCCULLOCHAE	0	0	0	0	0	0	0	1	0	0	0	0	0.08
ANCISTRUSYLLIS HAMATA	0	0	0	0	0	1	0	0	0	0	0	0	0.08
EXOgone GEMMIFERA	0	1	0	0	0	0	0	0	0	0	0	0	0.08
TYPOSYLLIS ACICULATA	2	0	0	0	1	0	1	1	0	0	0	1	0.50
PLATYNERETS HICANALICULATA	1	0	0	0	0	0	0	0	0	0	0	0	0.08
NEPTYS CAECOIDES	1	0	0	0	0	0	1	0	0	0	0	0	0.17
NEPTYS CURNUTA FRANCISCANA	1	1	0	0	0	0	1	0	0	0	0	0	0.25
SPHAERODROMOPSIS SPHAERULIFER	0	0	0	1	0	0	0	1	1	0	0	0	0.25
GLYCFRA CONVOLUTA	0	0	0	0	0	1	0	2	0	0	0	0	0.25
GLYCFRAE ARMIGERA	0	0	0	0	0	0	1	0	0	0	1	0	0.17
GONIADA LITTOREA	2	0	1	2	2	0	2	3	1	0	1	1	1.25
CNUPHIDAE, UNID.	0	0	1	0	0	0	0	0	0	0	0	1	0.17
DIOPATRA SPLENDIDISSIMA	1	0	0	0	0	0	0	0	0	0	0	0	0.08
NCTRIA IRIDESCENS	0	0	0	0	1	0	0	0	0	0	0	0	0.08
LUMBRINERIS CRUZENSIS	0	0	0	0	0	0	0	0	0	1	0	0	0.08
LUMBRINERIS TETRAURA	1	2	1	2	3	3	1	0	1	0	1	4	1.58
ARABELLIDAE, UNID.	0	0	0	0	0	0	0	0	1	0	0	0	0.08
ARABELLA THICOLCH	0	0	1	0	1	0	0	0	0	0	0	0	0.17
HAPLOSCLOPLOS ELONGATUS	0	0	1	0	0	0	0	0	1	0	0	0	0.17
SCOLOPLOS ARMIGER	0	0	1	0	0	0	0	0	0	0	0	0	0.08
ACESTA CATHERINAE	2	2	1	2	2	4	1	4	1	0	0	1	1.67
ACESTA HORIKOSHII	0	0	0	0	0	0	0	1	0	0	0	0	0.08
PRIONOSPION CIRRIFERA	0	0	0	0	0	0	0	1	0	0	0	0	0.08
PARAPRIONOSPION PINNATA	0	0	0	1	1	0	3	1	0	0	0	0	0.50
APOPRIONOSPION PYGMAEUS	2	0	3	3	0	1	0	1	1	0	0	2	1.08
SPIOPHANES BOWRYX	1	1	2	1	2	0	0	0	0	2	0	0	0.75
SPIOPHANES MISSIONENSIS	0	1	0	0	2	1	0	0	0	0	1	1	0.50
MAGELONA SACCOLATA	0	0	0	0	1	0	0	0	0	0	1	1	0.25
SPIOCHAETOPTERUS COSTARUM	0	0	0	0	0	0	1	0	0	0	0	0	0.08
CHAETONE SETOSA	2	1	0	0	0	3	0	1	2	1	0	1	0.92
THARYX SP.	1	0	0	0	0	0	0	0	0	0	0	0	0.08
TRAVISIA GIGAS	0	0	0	0	1	0	0	0	0	0	1	0	0.17
MEDIOMASTUS AMBISETA	5	9	3	6	0	2	2	8	0	2	2	1	3.33
MEDIOMASTUS ACUTUS	4	6	1	3	0	1	3	0	2	0	0	1	1.75
MEDIOMASTUS CALIFORNIENSIS	0	0	1	0	3	0	1	1	0	0	0	0	0.50
MEDIOMASTUS SP.	0	0	0	1	0	0	0	0	0	0	0	0	0.08
AMASTIGOS ACUTUS	1	0	0	0	0	1	0	0	0	0	0	1	0.25
MALDANIDAE, UNID.	0	0	0	1	0	0	0	0	0	0	0	0	0.08
OKENIA COLLARIS	0	0	0	0	0	0	0	0	0	2	0	0	0.17
PECTINARIA CALIFORNIENSIS	0	1	0	0	0	0	0	0	0	0	0	0	0.08
AMPHARETE LABROPS	1	1	0	0	1	0	0	1	0	0	0	0	0.33
AMPHICTEIS SCAPHOBRANCHIATA	0	0	1	0	0	0	0	0	0	0	0	0	0.08
AMAFANA OCCIDENTALIS	0	0	0	0	0	1	1	1	0	2	0	1	0.50
PISTA FASCIATA	0	1	0	0	0	0	1	0	0	0	0	0	0.17
POLYCIRRUS PERPLEXUS	0	0	0	0	1	0	0	0	0	0	0	0	0.08
CYLINDROCLERERIIDAE, UNID.	0	1	0	0	0	0	1	1	0	0	0	0	0.25
EUPHILONEDES CARCHARODONTA	1	1	2	1	0	0	1	0	1	0	2	0	0.75
HARPACTICUIDA, UNID.	0	0	0	1	0	0	0	0	1	0	0	0	0.17
NEBALIACEA, UNID.	0	0	0	0	0	0	0	1	0	0	0	0	0.08
HEMILAMPROPS CALIFORNICA	1	0	1	1	0	0	0	0	0	0	0	0	0.25
GYUROSTYLIS PACIFICA	0	1	0	0	0	0	0	0	1	0	1	0	0.25
LEPTOCHELIA SP.	0	0	0	0	0	0	0	0	1	0	0	0	0.08
EDOTEA SUBLITTORALIS	0	1	0	0	0	0	1	0	0	0	0	0	0.17
ARGISSA HAMATIPES	0	3	0	0	0	0	0	0	0	2	0	0	0.42
CERAPUS TUBULARIS	0	1	0	0	0	0	0	0	0	0	0	0	0.08
PHOTIS MACROTICA	0	0	0	0	0	0	0	0	0	1	0	0	0.08
JASSA FALCATA	0	0	0	1	1	0	1	0	0	0	0	1	0.33
PACHYAUS BARNARDI	0	0	0	0	0	0	0	1	0	0	0	0	0.08
SYNCHELIDIUM SP.	0	1	0	1	1	0	0	0	0	0	0	0	0.25
RHEPOXYNIUS EPISTOMUS	0	0	0	0	0	1	1	1	0	0	0	0	0.25
PINNIXA FRANCISCANA	0	0	0	0	1	0	0	0	0	0	0	0	0.08
DECAPODA, MEGALOPS, UNID.	0	0	0	1	0	0	0	0	0	0	0	0	0.08
OLIVELLA BAETICA	0	2	1	1	1	1	1	0	0	0	0	1	0.67
SULCORETUSA XYSTRUM	0	0	0	0	0	0	0	1	0	0	0	0	0.08
YOLDIA SCISSURATA	0	0	0	1	0	0	1	0	0	0	0	0	0.17
MEDIOLUS SP.	0	1	0	0	0	0	0	0	0	0	0	0	0.08
NEAEROMYA COMPRESSA	0	0	0	0	0	1	0	0	0	0	0	0	0.08
COOPERELLA SUBTAPHANA	1	0	0	0	0	0	1	2	0	0	0	0	0.33
TELLINA CARPENTERI	1	0	0	0	0	0	0	0	0	0	0	0	0.08
TELLINA MODESTA	0	5	1	4	0	2	2	0	2	0	0	0	1.33
TELLINA SP.	0	0	0	0	0	0	0	0	0	0	0	1	0.08
MACOMA SP.	1	0	0	0	0	0	0	0	0	0	0	0	0.08
PERIPLOMA PLANTUSCULUM	0	0	0	1	0	0	2	0	0	0	0	0	0.25
PHORONIS SP.	0	0	0	0	0	0	0	0	1	1	0	0	0.17
OPHIUROIDEA, UNID.	0	0	0	0	0	1	0	1	0	0	0	0	0.17
HEMICHOORDATA, UNID.	0	0	1	0	0	0	0	0	0	0	0	0	0.08
CHAETOGNATHA, UNID.	0	0	0	0	0	0	0	0	1	0	0	0	0.08



Table III-2. Subtidal infaunal species density (mean number per liter) by replicate, February 1979 (Cont).

22 February 1979

STATION H1

SPECIES	REPLICATES					MEAN
	1	2	3	4	5	
HYDROZOA, UNID.	0	0	1	0	0	0.20
NEMERTEA, UNID.	1	1	0	1	0	0.60
NEPHTYS CAECOIDES	0	2	1	1	0	0.80
SCOLOPLOS ARMIGER	0	0	0	1	1	0.40
GISPIO UNCINATA	1	0	0	0	0	0.20
APROPIONOSPIO PYGMAEUS	1	8	7	19	4	7.80
SPIOPHANES BOMBYX	1	1	0	3	1	1.20
SPIOPHANES MISSIONENSIS	1	0	0	0	0	0.20
AMASTIGOS ACUTUS	1	0	0	2	1	0.80
EUPHILOMEDUS LONGISETA	0	0	0	2	0	0.40
ECOTEA SUBLITTORALIS	0	0	0	1	0	0.20
ELASMOPOUS HOLGURUS	2	0	0	0	0	0.40
GAMMAROPSIS THOMPSONI	0	0	1	0	0	0.20
JASSA FALCATA	1	0	3	1	3	5.00
PARAPHOXUS SP.	0	1	0	2	0	0.60
RHEPOXYNIUS BICUSPIDATUS	0	0	0	1	5	1.20
RHEPOXYNIUS EPISTOMUS	1	2	5	4	0	2.40
PARAPLEUSTES PUGFITTENSIS	0	0	6	1	0	1.40
CAPRELLA SP.	0	0	0	1	0	0.20
ULIVELLA BAETICA	0	1	0	0	0	0.20
TELLINA MODESTA	0	0	0	1	0	0.20
MACOMA SP.	0	0	0	9	3	2.40
CHAETOGNATHA, UNID.	0	0	0	0	1	0.20

Table III-2. Subtidal infaunal species density (mean number per liter) by replicate, February 1979 (Cont.).

STATION H2 22 February 1979

SPECIES	REPLICATES												MEAN
	1	2	3	4	5	6	7	8	9	10	11	12	
PLATYHELMINTHES, UNID.	0	0	0	0	0	0	0	0	0	2	0	0	0.17
NEMERTEA, UNID.	0	1	1	0	1	0	0	1	2	0	0	3	0.75
HARMOHUE PRIOPS	0	0	0	0	0	0	0	0	0	1	0	0	0.08
STHENELAIS VERRUCULOSA	0	0	0	0	0	0	0	0	0	1	0	0	0.08
PHYLLODOCE SP.	0	0	0	0	0	0	0	0	0	0	0	1	0.08
MICROPHthalmus SP.	0	0	0	1	0	0	0	0	0	0	0	0	0.08
TYPOSYLLIS ACICULATA	0	0	0	0	0	1	0	0	0	0	0	0	0.08
NEPHTYS CAFCOIDES	1	0	1	0	0	0	0	0	2	0	0	1	0.42
GLYCERA CONVOLUTA	0	0	0	1	0	0	0	0	0	0	0	0	0.08
GLYCIADAE ARMIGERA	0	1	0	0	0	0	0	0	0	0	0	0	0.08
GONIADA LITTOREA	0	0	1	0	0	0	1	0	0	0	1	0	0.25
ACTHRIA IRIOESCENS	0	0	0	0	0	0	1	1	0	0	0	0	0.17
LUMBRINERIS CRUZENSIS	0	1	0	0	0	0	0	0	0	0	0	1	0.17
LUMBRINERIS TETRAURA	0	0	0	1	0	0	0	0	0	1	0	0	0.17
LUMBRINERIS CALIFORNIFENSIS	0	0	0	0	0	0	0	0	0	1	0	0	0.08
HAPLOSCOLOPUS FLONGATUS	2	2	0	1	0	1	1	1	1	0	0	0	0.75
SCOLOPUS ARMIGER	5	2	3	3	3	3	2	0	2	3	1	3	2.50
ACESTA CATHERINAE	0	0	0	0	0	0	1	2	0	0	0	1	0.33
PHILOCSPID CIRRIFERA	0	0	0	1	0	0	0	0	4	3	0	0	0.67
PARAPHILOCSPID PINNATA	0	0	0	0	1	0	1	0	0	0	0	0	0.17
APPHILOCSPID PYGMAEUS	1	0	3	0	0	0	1	0	0	0	0	0	0.50
SPIOPHANES BOMBYX	2	3	2	1	3	3	2	0	1	1	3	1	1.83
SPIOPHANES MISSISSIPPIENSIS	0	1	0	0	0	1	0	0	0	2	0	0	0.33
MEDIOMASTUS AMBISETA	2	0	1	1	1	1	1	0	1	1	0	0	0.75
MEDIOMASTUS ACUTUS	0	0	0	0	1	0	0	0	0	0	0	0	0.08
ANASTIGES ACUTUS	4	0	0	1	0	0	1	1	0	2	0	0	0.75
GYPHIA CULLANIS	0	0	0	0	0	0	0	0	1	0	1	1	0.25
PECTINARIA CALIFORNIFENSIS	0	2	1	1	0	0	1	3	3	1	1	2	1.25
AMPHARETE LARROPS	0	0	0	0	0	0	0	0	0	0	0	1	0.08
AMAEANA OCCIDENTALIS	0	1	0	0	0	0	0	2	0	1	0	0	0.33
CHINE SP.	0	0	0	1	0	1	0	0	0	0	0	0	0.17
CYLINDROLBFERIDIADAE, UNID.	0	0	0	0	0	0	0	0	0	0	0	1	0.08
EUPHILOMIDES LONGISETA	0	1	0	0	0	0	1	0	0	3	0	0	0.42
EUPHILOMIDES CANCHAKODONTA	0	1	0	0	1	0	0	0	0	0	0	0	0.17
EUPHILOMIDES SP.	0	0	0	0	0	0	0	0	1	0	0	0	0.08
CAMPYLASPIS SP. C	0	0	0	0	0	0	0	0	0	0	1	0	0.08
CAMPYLASPIS SP.	0	0	0	0	0	0	0	0	1	0	0	0	0.08
CYTHOSTYLIS PACIFICA	0	0	0	0	1	0	0	0	0	0	0	0	0.08
BATHYCOPEA GRANULATUS	0	0	0	0	0	0	0	0	0	0	0	1	0.08
ECOTEA SUBLITTORALIS	0	0	0	0	1	0	0	0	1	0	0	0	0.17
ARGISSA HAMATIPES	0	0	0	0	0	1	0	0	0	0	1	0	0.17
CERAPHS TUBULANIS	0	0	0	0	0	0	0	0	0	1	0	0	0.08
GAMMAROPSIS SP.	0	1	0	0	0	0	0	0	0	0	0	0	0.08
PHOTIS SP.	0	0	0	0	0	1	0	0	0	0	0	0	0.08
PARAPHOXUS SP.	0	0	0	0	0	0	0	0	0	1	0	1	0.17
RHEPOXYNIUS HICUSPIDATUS	0	0	0	0	0	0	1	0	0	0	0	0	0.08
RHEPOXYNIUS EPISTOMUS	0	2	0	1	0	1	1	0	2	2	0	0	0.75
GAMMARIDEA, UNID.	0	0	0	0	0	0	0	0	0	1	0	0	0.08
CANCER SP.	0	0	0	0	0	0	0	0	0	1	0	0	0.08
NEVERITA RECLUZIANA	0	0	0	1	0	0	0	0	0	0	0	0	0.08
CIJVELLA RAETICA	3	0	2	0	1	2	1	2	0	0	0	0	0.92
KURTZIELLA PLUMBREA	0	1	0	0	0	2	2	1	0	0	0	1	0.58
YCLDIA SCISSURATA	1	1	1	0	0	0	0	2	1	1	1	0	0.67
NOBIOLUS SP.	0	0	0	0	1	0	0	0	0	0	0	0	0.08
NEAFROMYA COMPRESSA	0	0	0	0	1	0	0	0	0	0	0	0	0.08
COOPERELLA SUBDIAPHANA	0	0	0	0	0	0	0	0	0	0	1	2	0.25
SPISULA CATILLIFORMIS	0	1	0	0	0	0	0	0	0	0	0	0	0.08
TELLINA HODEGENSIS	0	0	0	0	0	0	0	0	0	0	3	0	0.25
TELLINA MODESTA	2	1	0	12	8	3	5	4	1	7	0	16	4.92
TELLINA SP.	0	0	4	0	0	0	0	0	0	0	0	0	0.33
MACOMA ACOLASTA	0	0	0	0	0	0	0	0	0	1	0	0	0.08
MACOMA SP.	0	0	0	0	0	0	0	0	0	1	0	0	0.08
SOLEN ROSACEUS	0	0	0	0	0	0	1	0	0	0	0	0	0.08
PHORONIS SP.	0	0	0	0	0	0	0	0	0	0	1	0	0.08
OPHIOPHRAGMUS DIGITATA	0	0	1	1	0	0	0	0	0	0	0	0	0.17
HEMICORDATA, UNID.	0	0	0	0	0	1	0	0	0	0	0	0	0.08
CHAETOGNATHA, UNID.	1	0	0	0	0	0	0	0	0	0	1	1	0.25



Table III-2. Subtidal infaunal species density (mean number per liter) by replicate, February 1979 (Cont).

14 February 1979

STATION C1

SPECIES	REPLICATES					MEAN
	1	2	3	4	5	
HYDROZOA, UNID.	2	0	0	0	0	0.40
NEMERTEA, UNID.	1	7	1	2	3	2.80
EITONE ALBA	0	0	1	0	1	0.40
NEPHTYS CAECOIDES	0	0	0	2	1	0.60
GLYCERA CONVOLUTA	0	0	1	0	1	0.40
GONIADA LITTOREA	0	0	0	1	0	0.20
HAPLOSCOLOPLOS FLONGATUS	0	1	1	0	0	0.40
SCOLOPLOS ARMIGER	2	0	1	0	3	1.20
PARAONELLA PLATYBRANCHIA	0	1	0	0	0	0.20
DISPIO UNCINATA	0	1	0	1	0	0.40
PRIONOSPIO CIRRIFERA	0	0	1	0	0	0.20
APOPRIONOSPIO PYGMAEUS	0	1	5	1	0	1.40
SPIOPHANES BOMBYX	2	1	4	1	1	1.80
SPIOPHANES MISSIONENSIS	0	1	0	0	0	0.20
MEIDIOMASTUS AMBISETA	0	0	1	0	0	0.20
MEIDIOMASTUS ACUTUS	0	0	0	1	1	0.40
AMASTIGOS ACUTUS	0	3	7	2	6	3.60
GNENIA COLLARIS	0	0	0	0	1	0.20
EUPOMATUS SP.	0	1	0	0	0	0.20
PALLENE SP.	0	1	0	0	0	0.20
CAMPYLASPIS SP. C	0	1	1	0	0	0.40
ARGISSA HAMATIPES	5	0	0	0	0	1.00
FOHAUSTORIUS WASHINGTONIANUS	0	1	0	0	0	0.20
JASSA FALCATA	58	4	2	1	1	13.20
LITRIELLA DIFFUSA	0	0	1	0	0	0.20
RHEPOXYNIUS RICUSPIDATUS	0	0	2	0	0	0.40
RHEPOXYNIUS EPISTOMUS	1	0	0	1	0	0.40
GAMMARIDEA, UNID.	0	0	0	1	0	0.20
ISOICHELES PILOSUS	0	1	0	0	0	0.20
TELLINA MODESTA	1	3	5	0	3	2.40
TELLINA SP.	0	0	0	1	0	0.20
MACOMA SP.	0	0	1	0	2	0.60
ECHINOIDEA, UNID.	0	0	1	0	0	0.20

Table III-2. Subtidal infaunal species density (mean number per liter) by replicate, February 1979 (Cont).

STATION C2 13 February 1979

SPECIES	REPLICATES												MEAN
	1	2	3	4	5	6	7	8	9	10	11	12	
PLATYHELMINTHES, UNID.	0	0	0	0	0	1	0	0	0	0	0	0	0.08
MEMERTEA, UNID.	2	3	1	0	2	1	1	0	2	1	1	3	1.42
NEMATODA, UNID.	0	1	0	0	0	0	0	0	0	0	0	0	0.08
STHENE LAIS VERRUCULOSA	1	0	0	0	0	0	0	0	0	0	0	0	0.08
ETEONE ALBA	0	0	1	0	0	0	0	0	0	0	1	0	0.17
GYPTIS BREVIPALPA	0	1	0	0	0	0	0	0	0	0	0	0	0.08
TYPOSYLLIS ACICULATA	1	0	0	0	0	0	0	0	0	0	1	0	0.17
NEPHTYS CAECUIDES	0	0	0	0	0	3	0	1	2	1	0	0	0.58
SPHAERODOROPSIS SPHAERULIFER	0	0	1	0	0	0	0	0	0	0	0	0	0.08
GENIADA LITTOREA	0	0	2	1	0	0	0	0	0	0	0	0	0.25
LUMBRINERIS LATREILLI	1	2	0	0	0	1	0	0	0	1	0	0	0.42
LUMBRINERIS TETRAIRA	0	1	0	0	0	0	0	0	0	0	1	0	0.17
LUMBRINERIS SP.	0	0	0	0	0	0	0	0	1	0	0	0	0.08
SCOLOPLOS ARMIGER	0	0	0	1	2	0	1	0	0	0	1	0	0.42
ACFSTA CATHERINAE	0	0	0	0	0	1	0	0	2	0	1	0	0.33
SPIONIDAE, UNID.	0	0	0	0	0	0	0	0	0	1	0	0	0.08
DISPID UNCINATA	1	0	0	0	0	0	0	0	0	0	0	0	0.08
PCLYDONA SP.	0	0	0	0	0	0	0	0	0	0	1	0	0.08
PRIONOSPION CIRRIFERA	0	0	0	0	0	0	0	0	0	0	1	0	0.08
PARAPRIONOSPION PINNATA	0	0	0	0	0	0	0	0	0	0	0	1	0.08
APOPRIONOSPION PYGMAEUS	0	1	2	2	1	2	0	0	0	1	0	2	0.92
SPIOPHANES HOMBYX	1	1	0	0	3	1	0	0	1	1	3	0	0.92
MAGELONA SACCOLATA	0	0	0	0	0	1	0	0	0	0	0	0	0.08
CHAETAZONE SETOSA	1	0	0	0	0	0	0	0	0	0	0	0	0.08
MEDIOMASTUS AMBISETA	1	1	0	1	0	0	0	1	1	0	0	0	0.42
MEDIOMASTUS ACUTUS	0	1	0	1	0	3	1	0	1	2	1	0	0.83
AMASTIGOS ACUTUS	25	0	37	16	23	1	18	3	16	13	2	1	12.92
PECTINARIA CALIFORNENSIS	0	0	0	0	1	1	0	0	0	0	0	0	0.17
AMAEANA OCCIDENTALIS	1	1	0	0	0	1	0	0	0	0	0	0	0.25
SIPUNCULIDA, UNID.	0	0	1	0	0	0	0	0	0	0	0	0	0.08
FUPHILOMIDES LONGISETA	0	0	1	0	2	0	1	0	2	0	0	0	0.50
FUPHILOMIDES SP.	0	0	0	0	1	0	0	0	0	0	0	0	0.08
CALANOIDA, UNID.	2	0	2	0	0	1	0	0	0	0	0	0	0.42
ANCHICOLURUS OCCIDENTALIS	0	0	0	0	0	0	0	0	0	0	1	0	0.08
BATHYCOPEA GRANULATUS	1	0	1	0	0	0	0	0	0	1	1	1	0.42
EDOTEA SUBLITTORALIS	0	0	0	0	0	0	0	0	0	2	0	0	0.17
ACUMINODEUTOPUS HETERUROPIUS	1	0	0	0	0	0	0	0	0	0	0	0	0.08
PHOTIS SP.	0	0	0	0	0	0	0	1	0	0	0	0	0.08
MANDIBULOPHUXUS UNCIROSTRATUS	0	0	0	0	0	0	0	0	0	0	1	0	0.08
HEPOXYNIUS BICUSPIDATUS	0	0	0	0	0	2	0	0	0	0	0	0	0.17
CAECUM CALIFORNICUM	0	1	0	0	0	0	0	0	0	0	0	0	0.08
NEVERITA NECLUZIANA	0	1	0	0	0	0	0	0	0	0	0	1	0.17
NASSARIUS PERPINGUIS	0	0	0	0	0	0	0	0	0	1	0	0	0.08
SULCURETUSA XYSTRUM	0	0	0	0	1	0	0	0	0	0	0	0	0.08
NYTTILIDAE, UNID.	0	0	0	0	0	1	1	0	0	0	0	0	0.17
TELLINA MODESTA	1	2	0	0	2	5	0	1	0	1	1	0	1.08
MACOMA SP.	0	0	0	0	0	1	0	0	0	0	0	0	0.08
PERIPLOMA PLANIUSCULUM	0	0	0	0	0	0	1	0	0	0	0	0	0.08
PHORONIS SP.	1	0	0	0	0	0	0	0	1	0	0	0	0.17
ECTOPROCTA, UNID.	0	1	0	0	0	0	0	0	0	0	0	0	0.08
OPHIUROIDEA, UNID.	0	0	0	0	0	0	0	0	0	0	1	0	0.08
OPHIOPHRAGMUS DIGITATA	0	0	0	0	0	0	0	0	1	0	0	0	0.08
ECHINOIDEA, UNID.	1	0	0	0	0	0	0	0	0	0	0	0	0.08
CHAETOGNATHA, UNID.	0	0	1	0	0	0	0	0	0	0	0	0	0.08



Table III-2. Subtidal infaunal species density (mean number per liter) by replicate, February 1979 (Cont).

12 February 1979

STATION D1

SPECIES	REPLICATES					MEAN
	1	2	3	4	5	
NEMERTEA, UNID.	0	0	2	3	4	1.80
NEPHYS CAECOIDES	0	0	0	1	0	0.20
GEMMADA LITTOREA	1	0	0	0	0	0.20
SCOLOPLOS ARMIGER	1	0	2	0	1	0.80
PARAONELLA PLATYRRANCHIA	0	0	1	0	0	0.20
PARAONIDAE, UNID.	1	0	0	0	0	0.20
ACESTA CATHERINAE	0	0	0	0	2	0.40
APOPRIONOSPID PYGMAEUS	37	15	14	23	19	21.60
SPIOPHANES HUMBYX	2	0	1	2	0	1.00
SPIOPHANES MISSIONENSIS	0	0	1	0	1	0.40
ANASTIGOS ACUTUS	20	3	8	2	12	9.00
CWENTA COLLARIS	0	0	0	0	2	0.40
PFCINARIA CALIFORNIENSIS	0	0	1	0	0	0.20
CYLINDROLEBERIDIDAE, UNID.	0	0	0	1	0	0.20
FILIPHILOMEDES LONGISETA	1	1	0	1	0	0.60
FILIPHILOMEDES CARCHARODONTA	0	1	0	0	0	0.20
LEPTOCUMA FOKSMANI	0	0	0	0	1	0.20
EDOTEA SUBLITTORALIS	0	0	0	0	1	0.20
ECHAUSTORIUS WASHINGTONIANUS	0	0	1	1	1	0.60
PHOTIS SP.	1	0	0	0	0	0.20
JASSA FALCATA	0	0	1	0	1	0.40
SYNCHELIDIUM SP.	0	0	0	0	1	0.20
RHEPOXYNIUS HICUSPIDATUS	0	0	1	3	1	1.00
RHEPOXYNIUS EPISTOMIUS	0	0	3	2	1	1.20
CHEPIDULA SP.	1	0	0	0	0	0.20
CLIVELLA HAETICA	0	0	0	1	0	0.20
KURTZIELLA PLUMBEA	0	0	0	0	1	0.20
TPELLINA MODESTA	0	0	0	0	2	0.40
MACOMA SP.	0	2	0	9	0	2.20
PELECYPODA, UNID.	0	0	0	1	0	0.20
ECHINOIDEA, UNID.	0	0	0	0	1	0.20
CHAETOGNATHA, UNID.	3	1	0	0	0	0.80

Table III-2. Subtidal infaunal species density (mean number per liter) by replicate, February 1979 (Cont).

STATION 02 12 February 1979

SPECIES	REPLICATES												MEAN
	1	2	3	4	5	6	7	8	9	10	11	12	
HYDROZOA, UNID.	0	0	0	1	0	0	0	0	0	0	0	0	0,08
NEMERTEA, UNID.	0	0	2	0	1	2	0	1	1	0	0	1	0,67
EUSIGALION SPINOSUM	1	0	0	0	0	2	1	0	0	0	3	0	0,58
TYPOSYLLIS ACICULATA	1	0	0	0	0	0	0	0	0	0	0	1	0,17
NEPHYS CAECOIDES	1	0	1	0	0	0	0	0	0	0	0	0	0,17
GONIADA LITTOREA	3	2	0	1	1	1	1	0	1	0	1	2	1,08
LUMBRINERIS LATRILLI	0	0	0	1	0	1	0	2	1	0	0	0	0,42
LUMBRINERIS TETRAURA	1	1	1	0	0	0	0	0	0	0	0	0	0,25
LUMBRINERIS SP.	0	0	0	0	1	0	1	0	0	0	0	1	0,25
EPILOSCOLOPLOS ELOPHATUS	0	0	0	0	0	0	2	0	0	1	0	0	0,25
SCOLOPLOS ARMIGER	0	0	0	0	1	3	0	0	0	2	1	1	0,67
ACESTA CATHERINAE	0	0	0	0	1	0	0	0	1	2	0	0	0,33
ACESTA HORIKOSHII	0	0	0	0	0	0	0	1	0	0	0	0	0,08
CISPID UNCINATA	1	0	0	1	0	0	0	0	0	0	0	0	0,17
POLYDORA SP.	0	0	0	0	0	0	0	0	1	0	0	0	0,08
PRIONOSPID CTRRIFERA	0	0	0	0	0	0	0	0	0	0	0	1	0,08
APDPRIGNOSPID PYGMAEUS	4	0	2	0	0	1	1	0	1	1	1	1	1,00
SPIOPHANES HOMBYX	2	1	3	1	2	1	2	0	3	2	0	2	1,58
SPIOPHANES MISSIONENSIS	0	0	0	0	0	0	0	0	0	1	0	0	0,08
SPIOPHANES SP.	0	0	1	0	0	0	0	0	0	0	0	0	0,08
TRAVISIA GIGAS	0	0	0	0	0	0	0	0	0	0	0	1	0,08
MEDIOMASTUS AMBISETA	1	0	0	0	0	0	1	0	0	1	0	0	0,25
MEDIOMASTUS ACUTUS	0	0	1	0	0	1	0	0	0	0	0	1	0,25
ANASTIGOS ACUTUS	8	2	5	2	9	11	20	0	1	3	3	3	5,58
CANTIA COLLARIS	0	0	0	1	0	0	0	0	0	0	1	2	0,33
PECTINARIA CALIFORNENSIS	0	0	0	0	0	0	0	0	1	0	0	0	0,08
AMPHARETE LARROUS	0	0	0	0	0	0	0	1	0	0	0	0	0,08
ANAEANA OCCIDENTALIS	0	0	0	0	0	0	0	0	1	1	0	0	0,17
CYLINDROLEBERIDIADA, UNID.	1	0	0	0	0	0	0	0	0	0	0	0	0,08
EUPHILUMEDES LONGISETA	0	0	0	1	0	0	0	1	0	1	0	0	0,25
EUPHILUMEDES CARCHARODONTA	1	0	1	2	0	1	0	1	0	1	0	0	0,58
DIASTYLOPSIS TENNIS	0	0	0	0	0	0	0	0	0	0	1	0	0,08
HEMILAMPROPS CALIFORNICA	0	0	0	2	0	0	0	0	0	0	0	0	0,17
HATHYCOPEA GRANULATUS	0	0	0	1	0	0	0	0	0	2	0	0	0,25
FOOTEA SUBLITTORALIS	0	0	0	0	0	2	1	0	0	0	0	0	0,25
PHOTIS SP.	0	0	0	0	0	0	0	0	1	0	0	0	0,08
PHOTIS MACROTICA	0	0	0	0	0	0	0	0	0	1	0	0	0,08
JASSA FALCATA	0	0	2	0	0	2	0	0	0	1	1	1	0,58
RHEPOXYNIUS RICUSPIDATUS	0	0	0	1	1	0	0	0	0	0	0	2	0,33
RHEPOXYNIUS EPISTOMUS	0	0	1	0	0	0	0	0	0	0	0	0	0,08
CGYRIDES SP.A	0	0	0	0	0	0	0	1	0	0	0	0	0,08
PINNIYA SP.	0	0	0	0	0	0	0	0	0	1	0	0	0,08
OLIVELLA HAETICA	0	0	1	0	0	2	0	1	2	0	0	0	0,50
COSTOMIA SP. C	0	0	0	0	0	2	0	0	0	0	0	0	0,17
YGLDIA SCISSURATA	0	1	2	0	0	0	2	0	0	1	0	0	0,50
PLATOVYSTA XEROPHIA	0	0	0	0	0	0	0	0	1	0	0	0	0,08
NEAERONYA COMPRESSA	0	0	0	0	1	0	0	0	0	0	0	0	0,08
PETRICOLA TELLIMYALIS	0	0	0	0	0	0	0	0	0	0	0	1	0,08
ANTHANTIS CALLOSA	0	0	0	0	0	1	0	0	0	0	0	0	0,08
TELLINA MODESTA	1	1	2	0	1	5	1	0	1	1	0	1	1,17
SILINA LUCIDA	0	0	0	0	0	1	0	0	0	0	0	0	0,08
PERIPLOMA PLANISCHLUM	0	0	2	0	0	0	0	0	0	1	0	0	0,25
PHORONTIA, UNID.	0	0	0	1	0	1	0	0	1	0	0	0	0,25
PHORONTIS SP.	0	2	0	0	0	0	0	1	0	0	0	0	0,25
OPHIUROIDEA, UNID.	0	0	0	0	0	0	0	0	1	0	0	0	0,08
ECHINURIDA, UNID.	0	0	0	0	0	0	0	0	1	0	0	0	0,08
FISCS EGG, UNID.	0	0	0	0	1	0	0	0	0	0	0	0	0,08





Table III-2. Subtidal infaunal species density (mean number per liter)  
by replicate, February 1979 (Cont).

12 February 1979

STATION E1

SPECIES	REPLICATES					MEAN
	1	2	3	4	5	
HYDROZOA, UNID.	1	2	0	0	1	0.80
NEPHELEA, UNID.	0	0	1	1	1	0.60
NEPHTYS CAECOIDES	2	0	0	1	1	0.80
SCOLOPLES ARMIGER	0	1	0	2	0	0.60
DISPIC UNCINATA	0	0	0	2	0	0.40
APORRHINOSPID PYGMAEUS	8	6	10	15	15	10.80
SPIOPHANES ROMHYX	1	0	0	0	0	0.20
NEIDONASTIUS AMBISETA	0	1	0	0	0	0.20
ANASTIGES ACUTUS	1	0	0	3	0	0.80
EUPHILONYMUS LONGISETA	3	1	4	0	2	2.00
EUPHILONYMUS SP.	0	0	0	1	0	0.20
DIASTYLOPSIS TENNIS	4	0	0	1	1	1.20
LEPTOCOMA FORSMANI	1	0	0	0	0	0.20
PATHYCOPEA GRANULATUS	0	0	0	1	1	0.40
PROTA SUBLITTORALIS	0	1	0	0	0	0.20
PROTA TRANSVERSA	1	0	0	0	1	0.40
FRICHTONIUS BRASILIENSIS	1	0	0	0	0	0.20
ECHEMSTORIUS WASHINGTONIANUS	0	1	0	0	0	0.20
JASSA FALCATA	2	4	3	0	2	2.20
ISCHYROCERUS SP.	0	0	3	0	0	0.60
RHEPOXYNIUS BICUSPIDATUS	4	0	0	0	1	1.00
RHEPOXYNIUS EPISTOMUS	1	1	0	0	1	0.60
STREPTOCHE ESTACOLA	0	0	0	0	2	0.40
CARRELLA CALIFORNICA	0	1	0	0	0	0.20
HERMISSENDA CRASSICORNIS	0	1	0	0	0	0.20
AFOLIOIDIEA, UNID.	0	0	0	1	1	0.40
DENDROCTUS SP.	0	1	2	0	0	0.60
MYTILIDAE, UNID.	0	0	1	0	0	0.20
COPEWELLA SUBDIAPHANA	1	0	0	0	0	0.20
TELLINA MODESTA	1	0	0	0	0	0.20
MACOMA SP.	2	1	1	0	2	1.20

Table III-2. Subtidal infaunal species density (mean number per liter) by replicate, February 1979 (Cont).

STATION E2 12 February 1979

SPECIES	REPLICATES												MEAN
	1	2	3	4	5	6	7	8	9	10	11	12	
NEMERTEA, UNID.	1	1	1	2	0	4	0	0	0	2	2	1	1.17
EUSIGALION SPINOSUM	0	0	0	0	0	0	0	0	0	1	0	0	0.08
GYPTIS BREVIPALPA	0	0	0	0	0	0	0	1	0	0	0	0	0.08
ANCISTROSYLLIS HAMATA	0	0	0	0	0	0	0	1	0	0	0	0	0.08
TYPOSYLLIS ACICULATA	0	0	0	1	1	1	0	0	0	0	0	0	0.25
NEPHTYS CAECOIDES	0	0	1	0	0	0	0	0	1	1	0	0	0.25
GLYCERA CONVOLUTA	0	0	0	1	0	0	0	0	0	0	0	0	0.08
GONTADA LITTOREA	1	2	0	0	0	0	1	1	0	0	0	4	0.75
CAUPHIDAE, UNID.	0	1	0	0	0	0	0	0	0	1	0	0	0.17
ACTHRTA IRIDESCENS	0	0	0	0	0	0	0	0	0	1	0	0	0.08
LUMBRINERIS LATREILLI	0	1	1	1	0	0	0	0	0	0	0	0	0.25
LUMBRINERIS TETRAURA	1	0	0	1	1	0	0	0	1	1	2	2	0.75
SCOLOPLOS ARMIGER	0	0	1	0	5	0	0	0	1	0	1	1	0.75
ACESTA CATHERINAE	0	1	3	0	0	1	2	0	2	3	3	0	1.25
DISPIG UNCINATA	0	0	1	0	0	0	0	0	0	0	0	0	0.08
PRIONOSPIO CIRRIFERA	0	0	0	0	2	0	0	0	0	0	0	0	0.17
PARAPRIONOSPIO PINNATA	0	1	0	1	0	0	0	1	0	1	0	0	0.33
APOPRIONOSPIO PYGMAEUS	0	0	0	2	0	0	0	2	1	0	0	0	0.42
SPIOPHANES BOMBYX	0	2	0	0	2	1	0	1	1	2	0	0	0.75
SPIOPHANES MISSIOPANENSIS	0	1	0	0	0	0	0	0	0	0	0	0	0.08
MAGELONA SACCOLATA	0	0	0	0	0	0	0	0	0	0	0	1	0.08
COSSURA CANDIDA	0	1	0	0	0	0	0	0	0	0	0	0	0.08
MEDIOMASTUS ACUTUS	0	0	0	0	1	0	1	0	2	2	2	0	0.67
ANASTIGOS ACUTUS	0	2	1	1	6	3	4	0	4	20	2	13	4.67
PECTINARIA CALIFORNIAENSIS	0	0	0	0	0	0	0	0	0	1	0	0	0.08
AMPHARFIF LABRORS	0	0	0	0	0	0	0	1	0	0	0	0	0.08
AMAEANA OCCIDENTALIS	0	0	0	0	1	0	0	0	1	0	0	0	0.17
CYLINDROCLERERIDIDAE, UNID.	0	0	0	0	0	0	0	0	1	0	0	0	0.08
EUPHILOMEDES LONGISETA	0	1	0	1	0	0	0	1	0	0	0	0	0.25
EUPHILOMEDES CARCHARODONTA	0	0	1	0	0	0	0	0	0	1	1	0	0.25
EUPHILOMEDES SP.	0	0	0	0	0	1	0	0	0	0	0	0	0.08
RUTIDERMA ROSTRATA	0	0	0	0	0	0	0	0	0	0	0	1	0.08
CALANOIDA, UNID.	0	0	0	0	0	1	0	0	0	0	0	0	0.08
MYSTACEA, UNID.	0	0	0	0	0	0	0	0	0	0	0	1	0.08
CYCLASPIS NUBILA	0	0	0	0	0	0	0	1	0	0	0	0	0.08
AACHICOLURUS OCCIDENTALIS	0	0	0	0	0	0	0	0	0	1	0	0	0.08
DIASTYLOPSIS TENUIS	0	0	0	0	0	0	0	1	0	0	0	0	0.08
CAMPYLASPIS SP. C.	1	0	0	0	0	0	0	0	0	0	0	0	0.08
HATHYCOPEA GRANULATUS	0	0	0	0	0	1	0	0	0	0	0	0	0.08
FOOTEA SUBLITTORALIS	0	0	1	1	0	0	0	0	0	0	0	0	0.17
CERAPUS TURULARIS	1	0	0	0	0	0	0	0	0	0	0	0	0.08
PHOTIS SP.	0	1	0	0	0	0	0	0	0	0	0	0	0.08
PHOTIS MACROTICA	0	1	0	0	0	0	0	0	0	0	0	0	0.08
JASSA FALCATA	0	0	6	0	0	0	0	0	2	0	4	0	1.00
PARAPHOXUS SP.	0	0	0	0	0	0	0	0	0	0	0	1	0.08
RHEPOXYNIUS HICUSPIDATUS	0	0	0	0	0	0	0	1	0	1	0	0	0.17
RHEPOXYNIUS EPISTOMUS	0	0	3	0	1	0	1	2	2	0	0	0	0.75
GAMMARIDAE, UNID.	0	0	0	0	0	0	0	1	0	1	0	0	0.17
OGYRIDES SP. A	0	0	0	0	0	0	0	0	1	1	0	0	0.17
CLIVELLA BAETICA	1	1	0	1	0	0	1	4	4	0	0	2	1.17
MURTZIELLA PLUMBEA	0	1	1	0	0	0	0	0	0	0	0	0	0.17
ACTECCINA CULCITELLA	0	0	0	0	0	1	0	0	0	0	0	0	0.08
YCLDIA SCISSURATA	1	3	0	1	0	1	0	0	1	0	0	1	0.67
COOPERELLA SUBDIAPHANA	0	1	0	0	0	0	0	0	0	0	0	0	0.08
TELLINA MODESTA	1	0	2	0	2	0	0	2	0	1	0	0	0.67
SILIQUA LUCIDA	0	1	0	0	0	0	0	0	0	0	0	0	0.08
PERIPLOMA PLANTOSCULUM	0	0	0	0	0	0	0	1	0	0	0	0	0.08
CHAETOGNATHA, UNID.	0	0	0	0	0	1	0	0	0	0	0	0	0.08

Table III-2. Subtidal infaunal species density (mean number per liter) by replicate, February 1979 (Cont).

STATION E3 12 February 1979

SPECIES	REPLICATES												MEAN
	1	2	3	4	5	6	7	8	9	10	11	12	
NEMERTEA, UNID.	0	2	1	2	0	0	2	2	4	3	0	2	1.50
NEMATODA, UNID.	1	0	1	0	0	3	0	0	1	0	0	0	0.50
GYPTIS BREVIPALPA	1	3	0	0	0	0	0	0	0	0	0	0	0.33
SPHAERODOROPSIS BISERIALIS	0	0	0	0	1	0	0	0	0	0	0	0	0.08
SPHAERODOROPSIS SPHAERULIFER	0	0	0	0	0	0	0	0	0	1	0	0	0.08
GONIADA LITTOREA	0	2	0	0	0	1	0	0	0	1	0	3	0.58
GNUPHIS EREMITA	1	0	0	0	0	2	0	0	0	0	0	1	0.33
LUMBRINFRIS TETRAIRA	4	1	1	0	0	0	0	0	1	0	0	0	0.58
HAPLOSCULOPUS ELONGATUS	0	1	1	0	0	1	0	2	0	0	0	0	0.42
ACESTA CATHEPRINAE	10	7	5	4	1	8	4	2	10	13	1	4	5.75
PRIONOSPIO MALMGRENI	0	0	0	0	1	0	0	0	0	0	0	0	0.08
PARAPRIONOSPIO PIMPATA	0	0	0	1	0	0	0	0	0	0	0	1	0.17
APUPRIONOSPIO PYGMAEUS	1	0	1	1	0	2	1	1	2	0	1	0	0.83
SPIOPHANES HOWRYX	0	0	1	0	0	0	0	0	0	0	0	0	0.08
SPIOPHANES MISSIONENSIS	0	0	0	0	0	1	1	0	0	1	1	0	0.33
MAGELONA PITELKAI	0	1	0	0	0	0	0	0	0	0	0	0	0.08
MAGELONA SACCOLATA	0	0	0	0	1	0	0	0	1	1	1	0	0.33
CHAETOXONE SETOSA	1	0	0	0	1	2	1	0	0	1	0	0	0.50
MEDIOMASTUS AMHISETA	21	5	9	4	0	8	13	1	9	17	0	3	7.50
MEDIOMASTUS ACUTUS	3	4	1	3	0	8	5	4	8	6	1	3	3.83
MEDIOMASTUS CALIFORNIENSIS	0	0	0	5	0	6	3	0	3	3	2	2	2.00
MEDIOMASTUS TENUIS	0	0	0	0	1	0	0	0	0	0	0	0	0.08
MEDIOMASTUS SP.	0	0	0	0	4	0	0	0	0	0	0	0	0.33
AMASTIGOS ACUTUS	0	1	0	0	0	0	0	0	0	0	0	0	0.08
AMAFANA OCCIDENTALIS	1	0	0	0	0	0	0	0	0	0	0	0	0.08
POLYCHIRUS PERPLEXUS	0	0	0	0	0	0	0	0	0	0	0	1	0.08
SABELLIDAE, UNID.	0	0	1	1	0	0	0	0	0	0	0	0	0.17
SIPUNCULID SP. A	1	0	0	0	0	0	0	0	0	0	0	0	0.08
SIPUNCULID SP. B	0	0	0	1	0	0	0	1	0	0	0	0	0.17
SIPUNCULID SP. C	0	0	0	0	0	0	0	0	0	3	0	0	0.25
SIPUNCULID SP. D	0	1	0	0	0	0	0	0	0	0	0	0	0.08
EIPHILUMFOES CANCHARODONTA	1	0	0	0	0	0	0	0	0	0	0	0	0.08
RUTIDERMA ROSTRATA	0	1	0	0	0	0	0	0	0	0	0	0	0.08
CALANOTDA, UNID.	0	0	0	0	0	0	0	0	1	0	0	0	0.08
NYSTOACEA, UNID.	0	0	0	0	1	0	0	0	0	0	0	0	0.08
DIASYLOPSIS TENUIS	0	1	0	0	0	0	0	0	0	0	0	0	0.08
HEMILAMPROPS CALIFORNICA	1	2	0	0	0	0	1	0	0	0	0	0	0.33
RATHYOCPEA GRANULATUS	0	0	0	0	0	1	0	0	0	0	0	0	0.08
ECUTEA SUBLITTORALIS	2	0	0	0	1	0	0	0	0	0	0	0	0.25
MEGALURCPUS LONGIMERUS	0	0	0	0	0	0	0	1	0	0	1	0	0.17
PHOTIS SP.	0	0	0	0	0	0	1	0	0	0	0	0	0.08
PACHYNUS BARNARDI	0	0	0	0	0	1	0	0	0	0	0	0	0.08
SYNCHELIDIUM SP.	0	0	0	0	0	1	0	0	0	0	0	0	0.08
MONOCULODES HARTMANAE	0	0	0	0	1	0	0	0	0	1	0	0	0.17
PARAPHOXUS SP.	0	0	0	1	0	0	0	0	0	0	0	0	0.08
RHEPOXYNIUS EPISTOMUS	1	0	0	0	0	0	0	1	0	0	0	0	0.17
CAECUM CALIFORNICUM	0	0	0	0	1	0	0	0	0	0	0	0	0.08
CAECUM CREBRICINCTUM	0	0	0	0	0	0	0	0	0	0	1	0	0.08
CLIVELLA HAETICA	0	0	0	1	0	0	0	0	0	0	0	0	0.08
MACTRIDAE, UNID.	0	0	1	0	0	0	0	0	0	0	0	0	0.08
TPELLINA MODESTA	0	0	0	0	0	1	0	0	0	1	0	1	0.33
OPHIUROIDEA, UNID.	0	1	1	0	0	0	0	1	0	0	0	0	0.25
OPHIOPHRAGMUS DIGITATA	1	0	0	0	0	0	0	0	0	0	1	1	0.25
HEMICHOORDATA, UNID.	0	1	0	1	0	0	0	0	1	0	0	1	0.33
BRANCHIOSTOMA CALIFORNIENSE	0	0	0	1	0	0	0	0	0	0	0	0	0.08

Table III-2. Subtidal infaunal species density (mean number per liter) by replicate, February 1979. (Cont).

12 February 1979

STATION F1

SPECIES	REPLICATES					MEAN
	1	2	3	4	5	
NEMERTEA, UNID.	0	0	0	1	1	0.40
EUSIGALION SPINOSUM	0	1	0	0	0	0.20
ETEDNE DILATAE	1	0	0	0	0	0.20
EUMIDA SP.	0	0	1	0	0	0.20
TYPOSYLLIS ACICULATA	0	0	0	1	0	0.20
NEPHTYS CAECOIDES	2	0	0	0	2	0.80
SCALEWORM, UNID.	0	1	0	0	0	0.20
HAPLOSCOLOPLUS ELONGATUS	1	0	0	0	0	0.20
SCOLOPLOS ARMIGER	0	0	2	0	1	0.60
SPIONIDAE, UNID.	0	0	1	0	0	0.20
PRIONOSPION CIRRIFERA	0	1	0	0	0	0.20
APOPRIONOSPION PYGMAEUS	9	5	9	3	6	6.40
SPIOPHANES MISSIONENSIS	1	0	0	0	0	0.20
CHAETOCYONE SETOSA	0	0	0	0	3	0.60
CAPITELLA CAPITATA	0	1	0	0	0	0.20
MEDIOMASTUS ACUTUS	4	2	0	0	1	1.40
MEDIOMASTUS SP.	0	0	1	0	0	0.20
AMASTIGOS ACUTUS	0	0	0	0	3	0.60
CKENIA COLLARIS	4	3	2	0	0	1.80
PALLENE SP.	1	0	0	0	0	0.20
EUPHLOMEDES LONGISETA	0	0	0	4	3	1.40
LEPTOCUMA FORSMANI	1	0	0	0	1	0.40
PATHYCOPEA GRANULATUS	1	0	1	1	2	1.00
FCOTEA SUBLITTORALIS	0	0	0	1	0	0.20
PARANTHURA ELEGANS	0	1	0	0	0	0.20
ECHAUSTORIUS WASHINGTONIANUS	0	2	1	0	0	0.60
RHEPOXYNIUS HICUSPIDATUS	0	1	2	0	0	0.60
RHEPOXYNIUS EPISTOMUS	2	0	1	1	2	1.20
GAMMARTIDEA, UNID.	3	0	0	0	0	0.60
OLIVELLA BAETICA	1	0	1	0	0	0.40
MODIOLUS NEGLECTUS	0	1	0	0	0	0.20
MACOMA SP.	0	0	0	1	0	0.20
FCHEMNOIDEA, UNID.	0	0	1	0	0	0.20
DENDRASTER EXCENTRICUS	0	0	0	1	0	0.20

Table III-2. Subtidal infaunal species density (mean number per liter) by replicate, February 1979 (Cont).

STATION F2 12 February 1979

SPECIES	REPLICATES												MEAN
	1	2	3	4	5	6	7	8	9	10	11	12	
NEMERTEA, UNID.	1	1	1	0	1	2	2	3	2	0	1	0	1.17
EUSIGALION SPINOSUM	0	0	0	0	0	0	1	0	0	0	0	0	0.08
ETFONE ALBA	0	0	0	0	0	1	0	0	0	0	0	0	0.08
FUMIDA SANGUINEA	0	0	5	0	0	0	0	0	0	0	0	0	0.42
GYPTIS BRUVIPALPA	1	0	0	0	0	0	0	0	0	0	0	0	0.08
MICROPHTHALMUS SP.	0	0	0	0	1	0	0	0	0	0	0	0	0.08
TYPOSYLLIS ACICULATA	0	0	0	0	1	0	0	0	0	0	0	0	0.08
NEPHTYS CAECOIDES	1	1	0	0	1	0	0	0	0	1	0	1	0.42
GLYCERA CONVOLUTA	0	0	0	0	1	0	0	0	0	0	0	0	0.08
GONIADA LITTOREA	0	0	0	0	0	3	0	2	0	0	0	0	0.42
ONUPHIDAE, UNID.	0	0	0	0	0	0	0	0	0	0	0	1	0.08
ONUPHIS EREMITA	0	0	1	0	0	0	0	0	1	0	0	0	0.17
LUMBRINERIS TETRAURA	0	0	0	0	0	0	1	0	0	0	2	0	0.25
LUMBRINERIS SP.	0	0	0	0	2	0	0	0	0	0	0	0	0.17
SCOLOPLCIS ARMIGER	1	4	2	1	2	2	1	1	1	1	2	1	1.58
ACESTA CATHERINAE	2	0	1	0	0	0	0	0	0	0	0	0	0.25
PANAPHRONOSPIO PINNATA	0	0	0	0	1	0	0	0	1	0	0	0	0.17
APORRHONOSPIO PYGMAEUS	0	0	0	0	2	0	0	0	0	0	2	0	0.33
SPIOPHANES ROMBYX	0	0	0	1	0	0	0	0	1	2	0	0	0.33
SPIOPHANES MISSIONENSIS	0	0	1	0	0	0	0	0	0	0	1	0	0.17
MAGELONA SACCOLATA	0	0	0	0	0	0	0	0	1	0	0	0	0.08
CHAETOZONE SETOSA	0	0	1	0	0	0	0	0	0	0	0	0	0.08
THARYX SP.	0	0	0	0	0	0	0	1	0	0	0	0	0.08
MEDIOMASTUS AMHISETA	0	0	0	0	0	0	0	0	0	1	0	0	0.08
MEDIOMASTUS ACUTUS	3	0	0	0	2	0	0	1	0	0	0	0	0.50
MEDIOMASTUS CALIFORNIENSIS	0	0	0	0	0	0	0	0	0	0	1	0	0.08
AMASTIGOS ACUTUS	1	1	9	8	10	14	2	16	6	5	1	1	6.17
CHENIA COLLARIS	0	0	2	2	0	0	1	0	0	0	0	0	0.42
PECTINARIA CALIFORNIENSIS	0	0	0	0	0	0	0	0	0	0	0	1	0.08
AMAFANA OCCIDENTALIS	0	0	0	0	0	0	2	0	0	0	0	0	0.17
PISTA FASCIATA	0	0	1	0	0	0	0	0	0	0	0	0	0.08
PISTA SP.	0	0	0	0	0	0	1	0	0	0	0	0	0.08
CHONE MOLLIS	1	0	0	0	1	0	0	0	0	0	2	0	0.33
SIPUNCULID SP. H	0	0	0	1	0	0	0	0	0	0	0	0	0.08
ELPHILOMEDES LONGISETA	0	1	0	0	0	0	1	0	1	1	0	0	0.33
ELPHILOMEDES CARCHARODONTA	0	5	0	0	0	0	0	0	0	0	0	0	0.42
DIASTYLOPSIS TENNIS	0	1	0	1	0	0	0	0	0	0	0	1	0.25
CAMPYLASPIS SP. C	0	1	0	0	0	0	0	0	0	0	0	0	0.08
HATHYCOPEA GRANULATUS	0	0	0	0	2	0	0	0	0	0	0	0	0.17
EDDIEA SP. A	0	0	0	0	0	0	0	0	1	0	0	0	0.08
JASSA FALCATA	0	1	0	1	0	0	0	0	1	0	0	0	0.25
PACHYNUS BARNARDI	0	0	0	0	1	0	0	0	0	0	0	0	0.08
RHEPOXYNIUS EPISTOMUS	0	6	0	0	0	1	0	0	0	1	0	0	0.67
GAMMARIDAE, UNID.	0	1	0	0	1	1	0	0	0	0	0	0	0.25
CLIVELLA BAETICA	2	1	1	1	10	4	2	1	0	0	1	1	2.00
KURTZIELLA PLUMBEA	0	0	0	1	0	0	0	0	0	0	0	0	0.08
CYCLOSTREMELE DALLI	0	0	0	0	0	0	0	0	0	0	1	0	0.08
YULDIA SCISSURATA	0	0	0	0	1	0	0	1	0	0	0	0	0.17
AMANTIS CALLOSA	0	0	0	0	0	1	0	0	0	0	0	0	0.08
NACTRIDAE, UNID.	0	0	0	1	0	0	0	0	0	0	0	0	0.08
TELLINA MODESTA	0	2	0	1	3	1	1	1	1	2	0	1	1.08
FERIPLEMA PLANIUSCULUM	0	0	0	0	1	0	0	0	0	0	0	0	0.08
CHAETOGNATHA, UNID.	0	1	0	1	0	0	0	1	0	0	0	0	0.25



Table III-3. Subtidal infaunal species density (mean number per liter)  
by replicate, May 1979.

22 May 1979

STATION A1

SPECIES	REPLICATES					MEAN
	1	2	3	4	5	
** NO SAMPLES TAKEN **						





Table III-3. Subtidal infaunal species density (mean number per liter) by replicate, May 1979 (Cont).

STATION A3 22 May 1979

SPECIES	REPLICATES												MEAN
	1	2	3	4	5	6	7	8	9	10	11	12	
ISOEDWARDSIA SP. A	0	0	1	1	0	0	0	0	1	0	0	1	0.33
CARINOMA MUTABILIS	0	0	0	0	1	1	0	1	2	1	1	3	0.83
NEMATODA, UNID.	0	0	0	1	0	0	0	0	0	0	0	0	0.08
HARMOTHOE LUNULATA	0	0	2	1	0	0	0	0	0	0	0	0	0.25
HARMOTHOE PRIOPS	0	1	0	0	0	0	1	0	0	0	0	0	0.17
STHENELAIS VERRUCULOSA	0	0	0	1	0	0	0	0	0	0	0	0	0.08
EUSIGALION SPINOSUM	1	0	0	1	0	0	2	2	2	4	1	0	1.08
ANAITIDES SP.	0	0	0	1	0	0	0	0	0	0	1	0	0.17
EMMIDA BIFOLIATA	0	0	0	0	0	1	0	0	0	0	0	0	0.08
GYPTIS BREVIPALPA	0	0	0	0	0	0	1	0	0	0	0	1	0.17
TYPOSYLLIS ACICULATA	0	1	0	0	0	1	0	1	0	0	0	0	0.25
NEPHEYS SP.	0	0	0	1	0	0	0	0	0	0	0	0	0.08
NEPHEYS CORNUTA FRANCISCANA	0	0	1	0	0	1	0	0	0	0	1	0	0.25
SPHAERODURIUM MINUTUM	0	0	0	0	0	2	0	0	0	0	0	0	0.17
GLYCFRA CONVOLUTA	0	0	0	0	0	0	0	0	0	2	1	0	0.25
GLYCFRA SP.	0	0	0	0	1	0	0	0	0	0	0	0	0.08
GLYCTIDE ARMIGERA	0	0	0	0	0	1	0	0	0	0	0	0	0.08
GONIADA LITTOREA	2	1	2	1	0	3	1	3	1	0	0	0	1.17
ACTHRIA IRIDESCENS	0	0	0	0	0	0	0	1	0	0	0	0	0.08
LUMBRINERIS LATREILLI	0	0	0	0	0	0	0	1	0	0	0	0	0.08
LUMBRINERIS TETRAURA	1	1	0	0	1	2	0	0	1	5	0	0	0.92
LUMBRINERIS SP.	0	1	4	0	0	0	0	1	2	0	1	1	0.83
LUMBRINERIS PLATYPYGOS	0	0	0	0	0	0	1	0	0	0	0	0	0.08
HAPLOSCHLOPLOS ELONGATUS	0	0	0	0	0	0	1	0	0	1	0	0	0.17
SCOLOPLOS ARMIGER	0	0	0	0	1	0	0	0	0	0	0	0	0.08
PARADNELLA PLATYBRANCHIA	1	0	0	0	0	0	0	0	0	0	0	0	0.08
ACFSTA CATHERINAE	4	2	0	1	7	3	4	2	5	2	4	7	3.42
LAONICE CIRATA	0	0	0	1	0	0	0	0	0	0	0	0	0.08
PARAPRIONOSPIO PINNATA	2	0	3	0	0	1	0	0	0	0	4	2	1.00
APOPRIONOSPIO PYGMAEUS	1	1	1	5	0	0	1	4	0	0	0	0	1.08
SPIOPHANES BOMBYX	0	0	0	0	0	0	0	1	0	0	0	0	0.08
SPIOPHANES MISSIONENSIS	0	1	0	0	0	1	0	1	1	0	2	0	0.50
SPIOPHANES SP.	0	0	0	0	0	0	0	1	0	0	0	0	0.08
SPIOPHANES BERKELEYURUM	0	0	0	0	0	0	1	0	0	0	0	1	0.17
MAGELONA SACCOLATA	2	2	0	3	0	0	0	0	1	1	2	0	0.92
PGCULOCHAETUS JOHNSONI	0	0	0	0	0	0	0	0	0	0	1	0	0.08
SPIOCHAETOPTERUS COSTARUM	0	1	0	0	0	0	1	0	0	0	0	0	0.17
CHAETOZONE SFTOSA	0	0	2	2	3	2	4	4	1	0	6	1	2.08
TRAVISTA GIGAS	0	0	0	0	0	1	0	0	0	0	0	0	0.08
MEDIOMASTUS AMBISETA	10	3	1	2	2	3	7	1	1	0	5	5	3.33
MEDIOMASTUS ACUTUS	1	0	1	0	2	0	0	1	1	0	1	0	0.58
MEDIOMASTUS CALIFORNIENSIS	0	0	0	1	0	0	0	0	0	0	0	0	0.08
MALDANIDAE, UNID.	0	0	0	0	1	0	0	0	0	0	1	0	0.17
ASYCHIS DISPARIDENTATA	0	0	0	1	0	0	1	0	0	0	1	0	0.25
AXIOTHELLA RURROCTINCTA	0	0	0	1	1	0	0	0	0	0	0	0	0.17
CHONIA COLLARIS	1	0	0	1	0	0	3	0	0	0	2	0	0.58
AMPHICTEIS SCAPHORRANCHIATA	0	1	0	0	0	1	0	0	0	0	0	0	0.17
TERRELLIDAE, UNID.	0	0	0	0	0	0	0	0	0	0	1	0	0.08
AMAEANA OCCIDENTALIS	1	0	0	0	0	1	0	0	0	0	0	0	0.17
PISTA FASCIATA	0	0	0	1	0	2	2	1	4	0	1	1	1.00
PISTA SP.	0	0	0	0	0	0	0	0	0	0	1	0	0.08
PGLYCIRRUS SP.	1	1	0	0	1	1	0	0	1	0	1	0	0.50
STREBLUSOMA CRASSIBRANCHIA	0	0	0	0	0	0	0	0	0	0	1	0	0.08
CHONE MOLLIS	0	0	0	0	0	0	0	0	1	0	0	0	0.08
EUCHONE INCOLOR	0	0	0	0	0	0	0	0	2	0	0	1	0.25

Table III-3. Subtidal infaunal species density (mean number per liter) by replicate, May 1979 (Cont).

STATION A3 (CONT'D) 22 May 1979

SPECIES	REPLICATES												MEAN
	1	2	3	4	5	6	7	8	9	10	11	12	
CYLINDROFERIDIDAE, UNID.	0	1	0	1	0	1	0	0	0	0	0	0	0.25
EUPHILOMEDES CARCHARODONTA	0	1	2	2	4	3	1	2	5	1	1	1	1.92
CALANOIDA, UNID.	1	0	0	0	0	0	0	0	0	1	0	0	0.17
CYCLASPIS SP. H	0	0	0	1	0	0	0	0	0	0	0	0	0.08
HEMILAMPROPS CALIFORNICA	0	2	0	0	0	0	0	1	0	0	0	0	0.25
CUMELLA SP. A	0	1	1	0	0	0	0	1	0	0	0	0	0.25
OXYUROSTYLIS PACIFICA	0	0	1	0	0	0	1	0	1	0	0	1	0.33
LEPTOCUMA FORSMANI	0	0	0	2	0	0	0	0	0	0	0	0	0.17
ECOTEA SUBLITTORALIS	0	0	0	0	0	0	0	0	0	0	1	0	0.08
AMPELISCA CRISTATA	0	1	2	0	0	0	0	1	2	2	0	2	0.83
AMPELISCA COMPRESSA	1	0	3	0	0	0	0	1	0	1	0	0	0.50
AMPHIDEUTOPUS UCULATUS	0	0	0	1	0	0	1	0	0	0	0	0	0.17
ARGISSA HAMATIPES	2	1	0	0	1	0	0	1	0	1	0	4	0.83
PHOTIS SP.	0	0	0	0	0	0	0	0	0	1	0	0	0.08
PHOTIS CALIFORNICA	0	1	0	0	0	0	0	0	0	1	1	0	0.25
PHOTIS MACROTICA	0	0	0	0	0	0	0	0	0	0	1	0	0.08
JASSA FALCATA	0	0	0	0	0	0	0	0	0	0	1	0	0.08
LISTRITELLA MELANICA	0	0	0	0	0	0	0	1	0	0	0	0	0.08
PACHYNUUS BARNARDI	0	0	0	0	0	0	0	0	1	0	0	0	0.08
SYNCHELIDIUM SP.	0	0	1	1	0	0	1	0	0	0	0	0	0.25
AGNOCULODES MARTYNAE	1	0	0	0	0	0	0	0	0	0	0	0	0.08
RHEPOXYNIUS EPISTOMUS	1	1	0	1	0	0	1	0	1	1	1	0	0.58
PARAPHOXUS VARIATUS	0	0	0	0	0	0	0	1	0	0	0	0	0.08
GAMMARIDEA, UNID.	1	0	0	0	0	0	0	0	2	0	0	0	0.25
CAPRELLA CALIFORNICA	0	0	1	0	0	0	0	0	0	0	0	0	0.08
CALLIANASSA SP.	0	0	0	0	0	0	1	0	1	1	0	0	0.25
ISOCHLAFS PILOSUS	0	0	0	0	0	0	0	0	0	1	0	0	0.08
CANCER GRACILIS	0	0	0	1	0	0	0	0	0	0	0	0	0.08
PINNIXA SP.	0	0	0	0	0	0	1	0	0	0	0	0	0.08
BALCIS OLDROYDI	0	1	0	0	0	0	0	0	0	0	0	0	0.08
OLIVELLA BAETICA	0	0	0	0	0	1	0	1	0	3	0	0	0.42
KURTZIELLA PLUMBEA	1	0	0	0	0	0	0	0	0	0	0	0	0.08
SILCORETUSA XYSTRUM	0	0	0	0	0	0	0	1	0	0	0	0	0.08
AGLAJA OCCELLIGERA	0	0	0	0	0	0	0	0	0	0	1	0	0.08
PHYLINA SP.	1	0	0	0	0	0	0	0	0	0	0	0	0.08
AGLAJA DIOMEDEA	0	0	0	0	0	2	1	0	1	0	0	0	0.33
YCLDIA SCISSURATA	0	1	0	0	1	0	0	0	0	0	0	0	0.17
MYSELLA GOLISCHI	0	0	0	0	0	0	0	0	0	4	0	0	0.33
NEAFROMYIA COMPRESSA	0	0	0	0	0	2	0	1	0	0	0	0	0.25
COOPERFELLA SUBDIAPHYAIA	4	5	1	1	0	1	0	1	0	4	2	2	1.75
TELLINA MODESTA	2	5	1	1	3	0	2	1	0	5	3	3	2.17
MACOMA YOLDIFORMIS	0	0	0	0	0	0	0	0	0	2	0	0	0.17
MACOMA SP.	0	0	0	0	0	0	0	1	0	1	0	0	0.17
SILIGLA LUCIDA	2	2	1	0	0	0	0	0	0	0	0	0	0.42
PERIPLUMA PLANIUSCULUM	0	0	0	0	0	0	0	0	0	1	0	0	0.08
PELECYPODA, UNID.	0	0	0	0	0	0	0	0	0	0	1	0	0.08
PHORONIDA, UNID.	0	0	0	0	0	0	0	0	1	1	0	0	0.17
GLOTTIDIA ALTRIDA	0	0	0	3	1	0	0	1	0	0	0	0	0.42
ECHINGIDEA, UNID.	0	0	0	0	0	0	0	0	1	0	0	0	0.08
HEMICHORDATA, UNID.	0	0	1	0	0	0	0	0	0	1	0	0	0.17

Table III-3. Subtidal infaunal species density (mean number per liter)  
by replicate, May 1979 (Cont).

21 May 1979

STATION B1

SPECIES	REPLICATES					MEAN
	1	2	3	4	5	
ANTHOZOA, UNID.	0	0	1	0	0	0.20
NEMERTEA, UNID.	2	0	0	0	1	0.60
NEPHTYS CAECUIDES	0	1	2	0	0	0.60
NEPHTYS SP.	0	1	0	0	0	0.20
HAPLOSCOLOPLOS FLONGATUS	1	0	0	0	0	0.20
SCOLOPLOS ARMIGER	1	5	2	1	0	1.80
PARAONELLA PLATYBRANCHIA	1	0	0	1	0	0.40
ACESTA CATHERINAE	2	0	0	1	0	0.60
MAGELONA PITELKAI	1	2	0	0	0	0.60
MEDIUMASTUS AMBISETA	2	0	1	0	0	0.60
MEDIUMASTUS ACUTUS	1	0	0	0	0	0.20
MEDIUMASTUS TENUIS	1	0	0	0	0	0.20
AMASTIGOS ACUTUS	0	0	0	2	0	0.40
OWENIA COLLARIS	1	2	0	1	1	1.00
PECTINARIA CALIFORNIENSIS	0	0	0	1	0	0.20
EUPHILOMEDES LONGISETA	2	0	0	1	0	0.60
DIASTYLOPSIS TENUIS	0	1	0	0	0	0.20
LAMPROPS CARINATA	0	0	2	0	3	1.00
CAMPYLASPIS SP. C.	2	1	3	1	0	1.40
LEPTOCUMA FORSMANI	0	2	2	5	5	2.80
BATHYCOPEA GRANULATUS	0	1	2	0	0	0.60
EXOSPHAEROMA RHOMBURUM	1	0	0	0	0	0.20
EDDTEA SUBLITTORALIS	1	1	2	0	0	0.80
MEGALUROPOUS LONGIMERUS	0	0	0	1	0	0.20
JASSA FALCATA	0	2	7	1	0	2.00
SYNCHLIDIUM SP.	0	0	0	0	1	0.20
MONOCULODES HARTMANAE	1	0	0	0	0	0.20
RHEPOXYNIUS BICUSPIDATUS	0	0	1	0	0	0.20
RHEPOXYNIUS EPISTOMUS	1	5	4	7	3	4.00
CAPRELLIDAE, UNID.	1	0	0	0	0	0.20
CAPRELLA CALIFORNICA	0	0	1	0	0	0.20
OLIVELLA BAETICA	0	0	0	0	2	0.40
OLIVELLA RIPLICATA	0	0	0	0	1	0.20
TELLINA MODESTA	0	2	0	0	0	0.40
MACOMA INDENTATA	1	1	0	0	0	0.40

Table III-3. Subtidal infaunal species density (mean number per liter) by replicate, May 1979 (Cont).

SPECIES	STATION H2 22 May 1979												MEAN
	REPLICATES												
	1	2	3	4	5	6	7	8	9	10	11	12	
HALCAMPA DECUMENTACULATA	0	0	0	0	0	0	0	0	0	1	0	0.08	
NEMERTEA, UNID.	0	1	0	0	0	0	0	1	0	0	0	0.17	
CARINOMA MUTABILIS	0	0	0	1	0	3	1	0	1	0	0	0.58	
HARMOTHOF LUNULATA	0	0	0	0	0	0	0	0	1	0	0	0.08	
STHENELAIS VERRUCULOSA	0	0	0	0	0	0	0	0	1	0	0	0.08	
EUSIGALION SPINOSUM	1	0	0	0	0	0	1	1	2	0	1	0.50	
ANAETIDES SP.	0	0	0	0	0	0	1	0	0	0	0	0.08	
GYPTIS BRUNNEA	0	0	0	0	0	0	0	1	0	0	0	0.08	
TYPOSYLLIS ACICULATA	0	0	0	0	0	0	1	0	0	0	0	0.08	
NEPHTYS SP.	0	0	0	0	0	0	0	1	0	0	0	0.08	
GLYCERA CONVOLUTA	0	0	0	0	0	1	0	0	0	1	0	0.17	
GLYCERA SP.	0	0	0	0	1	0	0	0	0	0	0	0.08	
GLYCINDE ARMIGERA	0	1	0	0	1	0	0	0	0	0	0	0.17	
GCNIADA LITTOREA	0	3	0	0	1	1	0	2	2	0	2	1.17	
NOTHRIA IRIDESCENS	0	0	0	0	0	0	1	0	0	0	0	0.08	
LUMBRINERIS TETRAURA	1	0	0	0	0	0	0	0	0	0	0	0.08	
LUMBRINERIS SP.	0	0	0	0	0	0	1	0	0	0	0	0.08	
LUMBRINERIS CRASSIDENTATA	1	0	0	0	0	0	0	0	0	0	0	0.08	
HAPLOSCOLOPUS FLONGATUS	0	1	1	0	1	0	0	0	1	0	1	0.42	
SCOLOPLOS ARMIGER	0	3	2	0	1	0	0	0	4	0	1	0.92	
ACESTA CATHERINAE	10	3	6	5	4	1	7	2	5	7	2	4.50	
POLYDORA SP.	0	0	0	0	0	0	0	1	0	0	0	0.08	
PHIONOSPID CIRRIFFERA	0	0	1	0	0	0	0	1	0	0	0	0.17	
PARAPRIONOSPID PINNATA	0	0	0	1	0	0	0	1	0	0	0	0.17	
APOPRIOSPID PYGMAEUS	2	0	0	1	0	0	0	0	0	1	0	0.42	
SPIOPHANES HOMBYX	2	0	4	1	0	3	2	0	0	0	1	1.08	
MAGELONA PITEUKAI	0	0	0	0	0	0	0	0	1	1	0	0.17	
MAGELONA SACCUлата	0	0	0	0	0	0	1	0	0	0	2	0.25	
SPTOCHAETOPTERUS COSTARUM	0	0	0	1	0	0	0	0	0	0	0	0.08	
CHAETIZONE SETOSA	0	0	0	0	0	1	0	0	1	1	0	0.25	
MEDIOMASTUS AMHSETA	2	2	2	2	0	0	0	0	0	1	0	0.92	
MEDIOMASTUS ACUTUS	2	0	0	0	0	1	0	0	0	0	1	0.33	
MEDIOMASTUS SP.	0	1	0	0	0	0	0	0	0	0	0	0.08	
AMASTIGUS ACUTUS	0	1	0	0	0	0	0	2	1	5	3	2.00	
CYRENIA COLLARIS	2	0	3	4	0	0	1	4	0	0	0	1.25	
PECTINARIA CALIFORNIENSIS	1	0	3	3	0	2	4	0	0	1	1	1.25	
AMPHARETIDAE, UNID.	1	0	0	0	0	0	0	0	0	0	0	0.08	
AMPHARETE LARRUPS	0	0	0	1	0	0	1	0	0	1	0	0.25	
AMPHICTEIS SCAPHORANCHIATA	0	0	0	0	0	0	0	0	0	1	0	0.08	
AMAEANA OCCIDENTALIS	3	0	0	1	1	1	0	1	0	0	1	0.75	
PISTA FASCIATA	1	0	0	0	0	0	0	0	0	0	0	0.08	
CALLIPALLENE SP.	0	0	0	0	0	1	0	0	0	0	0	0.08	
CYLINDROLEMERIIDAE, UNID.	1	0	1	0	1	0	2	1	0	1	0	0.58	
EUPHILONEDES LONGIRETA	2	3	0	0	1	0	0	2	3	3	1	1.33	
EUPHILONEDES CARCHARODONTA	0	0	0	0	1	1	1	1	0	1	1	0.67	
EUPHILONEDES SP.	0	0	0	0	1	0	0	0	1	0	1	0.25	
CYCLASPIS NUBILA	0	0	0	0	0	0	0	1	0	0	0	0.08	
ARCHICOLURUS OCCIDENTALIS	0	0	0	0	1	0	0	1	0	0	0	0.17	
DIASTYLOPSIS TENNIS	0	0	0	1	2	0	1	0	0	0	1	0.42	
HEMILAMPROPS CALIFORNICA	0	0	0	0	0	0	0	0	1	0	0	0.08	
CYUROSTYLIS PACIFICA	0	0	0	0	0	0	0	0	0	1	0	0.08	
EDOTEA SUBLITTORALIS	0	0	0	0	4	0	0	0	0	1	1	0.75	
AMPELISCA COMPRESSA	0	0	0	0	0	0	0	0	28	0	0	2.33	
ARGISSA HAMATIPES	0	0	1	1	2	1	0	0	0	1	0	0.58	
MEGALUROPOUS LONGINEPUS	0	0	0	0	0	0	0	0	0	0	1	0.08	
PHOTIS SP.	0	0	1	3	2	0	0	1	0	1	2	1.00	
PHOTIS CALIFORNICA	0	0	0	0	1	0	0	1	0	0	1	0.25	
PHOTIS MACROTICA	0	0	1	0	2	2	0	0	0	1	1	0.75	
JASSA FALCATA	0	0	0	0	1	1	0	0	1	0	1	0.33	
SYNCHLIDIUM SP.	0	0	0	0	1	0	0	0	0	0	0	0.08	
MONOCLODES HARTMANAE	0	0	0	0	0	0	0	0	1	0	0	0.08	
RHEPOXYNIUS RICUSPIDATUS	1	0	0	1	1	0	0	0	0	0	1	0.33	
RHEPOXYNIUS EPISTOMUS	1	2	0	2	2	0	0	0	2	2	0	1.08	
TIRON TROPAKIS	0	0	0	0	0	0	0	0	0	0	1	0.08	
CGYRIDES SP. A	0	0	0	0	0	0	0	1	1	0	0	0.17	
CANCER GRACILIS	0	0	0	0	0	0	1	0	0	0	0	0.08	
PINNIXA SP.	0	0	0	0	0	1	0	0	0	0	0	0.08	
CLIVELLA BAETICA	1	0	1	0	0	0	0	1	2	0	0	0.58	
KURTZIELLA PLUMBEA	1	0	0	0	0	1	0	0	1	0	0	0.25	
AGLAJA DIOMEDEA	0	0	0	0	0	0	0	0	1	0	0	0.08	
YOLDA SCISSURATA	1	1	0	1	0	2	0	0	1	0	1	0.58	
MYTILIDAE, UNID.	0	0	0	0	0	0	0	0	0	1	0	0.08	
ANANTIS CALLOSA	0	0	0	0	0	1	0	0	0	0	0	0.08	
TELLINA MODESTA	2	3	2	2	1	2	1	3	2	6	2	2.33	
MACOMA SP.	0	0	0	0	0	1	0	0	0	0	0	0.08	
SILIGUA LUCIDA	0	0	1	0	0	1	0	0	0	2	1	0.50	
PHORONIDA, UNID.	0	0	3	0	0	0	0	0	0	0	1	0.33	
GLOTTIDIA ALBIDA	0	1	0	0	0	0	0	0	0	0	0	0.08	
CPHUIROIDEA, UNID.	0	0	0	0	1	0	0	0	0	0	0	0.08	
GPHIOPHAGMUS URTICA	0	1	0	0	0	0	0	0	1	0	0	0.17	
HEMICHORDATA, UNID.	0	0	0	0	0	0	0	1	0	0	0	0.08	

Table III-3. Subtidal infaunal species density (mean number per liter) by replicate, May 1979 (Cont).

STATION B3 22 May 1979

SPECIES	REPLICATES												MEAN
	1	2	3	4	5	6	7	8	9	10	11	12	
ISOEDWARDSIA SP. A	0	2	2	0	0	1	0	2	2	0	0	0	0.75
EDWARDSIA SIPUNCULOIDES	0	0	0	0	0	0	0	0	0	0	3	1	0.33
PLATYHELMINTHES, UNID.	0	0	0	0	0	0	0	1	0	1	0	0	0.17
NEMERTEA, UNID.	0	0	0	0	0	0	0	0	1	0	0	0	0.08
CARINOMA MUTABILIS	2	0	0	0	4	2	3	5	3	2	2	1	2.00
NEMATODA, UNID.	0	0	0	0	0	0	0	0	0	0	0	1	0.08
HARMOTHOE LUNULATA	0	0	0	0	0	0	0	0	0	0	1	0	0.08
HARMOTHOE PRIOPS	0	0	0	0	0	0	0	0	1	0	0	0	0.08
STHENELEIS VERRUCULOSA	0	0	1	0	0	0	0	0	0	0	0	0	0.08
FUSIGALION SPINOSUM	1	2	0	0	1	0	1	1	0	0	0	0	0.50
EUFONE DILATAE	0	0	0	0	0	0	0	0	0	1	0	0	0.08
LUMIDA SP.	0	0	0	0	0	0	0	0	0	0	1	0	0.08
TYPOSYLLIS ACICULATA	0	1	1	0	0	2	0	0	0	2	1	1	0.67
TYPOSYLLIS SP.	0	0	0	0	0	1	0	0	0	0	0	0	0.08
NERFIS PROCERA	0	0	1	1	0	0	0	0	0	0	0	0	0.17
NEPHTYS CAFCOIOS	0	0	0	0	0	0	0	1	0	0	0	0	0.08
NEPHTYS CORNUTA FRANCISCANA	1	1	0	0	0	1	0	0	0	0	0	1	0.33
GLYCERA CONVOLUTA	0	0	1	0	0	0	0	0	0	0	0	0	0.08
GLYCERA SP.	0	1	0	0	0	0	0	0	0	0	0	0	0.08
GLYCIDAE ARMIGERA	1	0	0	0	0	1	0	0	0	0	0	1	0.25
GONIADA LITTOREA	2	1	5	0	1	1	2	0	2	2	2	1	1.58
GONIADA SP.	0	0	0	0	0	1	0	1	0	0	0	0	0.17
CORPHIDAE, UNID.	0	0	0	0	0	0	0	0	0	0	0	1	0.08
ACTHRIA IRIDESCENS	0	0	0	0	0	1	0	1	0	0	0	0	0.17
LUMBRINERIS LATRELLI	0	0	0	0	0	0	0	0	0	0	0	1	0.08
LUMBRINERIS TETRAURA	0	2	1	0	0	1	1	0	3	0	0	2	0.83
LUMBRINERIS SP.	2	6	3	0	2	2	3	0	1	2	2	0	1.92
CRILONERFIS FALCATA	1	0	0	0	0	0	0	0	0	0	0	0	0.08
PARANIDAE, UNID.	0	0	0	0	0	0	0	0	0	0	1	0	0.08
ACESTA CATHERINAE	1	1	2	0	0	1	2	5	2	2	7	3	2.17
LAONICE CIRRATA	0	0	0	0	0	0	0	0	1	0	0	0	0.08
PRIONOSPIO CIRRIFERA	1	1	2	1	0	1	1	2	0	2	1	7	1.58
PARAPRIONOSPIO PINNATA	0	1	0	0	1	0	0	0	1	0	1	0	0.33
APRIONOSPIO PYGMAEUS	1	1	0	0	0	0	1	0	0	1	2	1	0.58
SPIOPHAES MISSISSIPPIENSIS	0	0	0	0	0	0	0	0	0	0	1	0	0.08
SPIOPHAES HERKELEYIPUM	0	0	0	0	0	0	0	0	0	0	1	0	0.08
MAGELONA SACCOLATA	2	0	0	0	0	0	0	1	0	0	0	0	0.25
CHAETZONE SETOSA	4	3	2	1	1	1	1	5	0	5	3	4	2.50
THARYX SP.	0	0	2	0	0	0	2	1	0	0	0	0	0.42
MEDIOMASTUS AMHISETA	9	9	8	15	5	9	10	22	53	36	62	46	22.00
MEDIOMASTUS ACUTUS	3	0	2	0	0	0	0	0	4	1	0	0	0.83
MEDIOMASTUS CALIFORNIENSIS	0	0	1	0	0	0	0	0	0	2	0	0	0.25
ANOTOMASTUS GORDIODES	0	0	0	0	0	0	1	2	0	0	1	1	0.42
ANASTIGGS ACUTUS	0	0	0	0	0	0	0	1	0	0	0	0	0.08
AXIOHELLA RUBROCINCTA	0	0	0	0	0	0	0	1	0	0	0	0	0.08
GENIA COLLARIS	0	0	0	0	0	1	0	1	0	1	0	0	0.25
PECTINARIA CALIFORNIENSIS	0	0	0	0	0	1	0	0	0	0	0	0	0.08
AMPHICTEFIS SCAPHOBRANCHIATA	0	1	0	0	0	0	0	0	0	0	0	0	0.08
AMEANA OCCIDENTALIS	1	0	0	0	0	0	0	0	3	0	0	0	0.33
PISTA FASCIATA	0	0	1	1	0	2	0	0	1	3	1	1	0.83
STRELOSOMA CRASSIHYANCHIA	0	0	0	0	0	0	0	0	0	1	0	0	0.08
CYLINDROLEPHRIDIDAE, UNID.	0	1	0	0	0	1	0	1	3	0	0	1	0.58
EUPHLOEDES CARCHAODONTA	3	0	0	6	2	0	0	2	1	2	1	1	1.50
CYCLOPOIDA, UNID.	0	0	1	0	0	0	0	0	0	0	0	0	0.08
CALANOIDA, UNID.	0	0	0	0	0	0	0	0	0	0	2	1	0.25

Table III-3. Subtidal infaunal species density (mean number per liter) by replicate, May 1979 (Cont).

STATION B3 (CONT'D) 22 May 1979

SPECIES	REPLICATES												MEAN
	1	2	3	4	5	6	7	8	9	10	11	12	
CUMACEA, UNID.	1	0	0	0	0	0	0	0	0	0	0	0	0.08
ANCHICOLURUS OCCIDENTALIS	0	1	0	0	0	0	0	0	0	0	0	0	0.08
DIASTYLOPSIS TENUIS	0	0	0	0	0	0	0	1	0	1	0	0	0.17
HEMILAMPIDUS CALIFORNICA	1	0	0	1	0	0	0	1	0	0	1	0	0.33
CUMELLA SP. A	1	0	0	0	0	0	0	0	1	0	0	0	0.17
OXYUROSTYLIS PACIFICA	1	0	0	0	0	0	0	0	1	0	0	0	0.08
AMPELISCA CRISTATA	4	0	1	2	1	1	0	0	1	0	0	1	0.92
AMPELISCA COMPRESSA	0	0	0	0	1	4	0	0	0	0	0	0	0.58
ACUMINODUTOPUS HETERUROPIUS	0	0	0	0	0	0	0	1	0	0	0	0	0.08
ARGISSA HAMATIPES	0	0	0	0	0	0	0	0	1	0	0	0	0.08
CERAPUS TUBULARIS	0	0	0	0	0	0	0	0	0	0	0	1	0.08
PHOTIS SP.	0	0	0	0	0	1	0	0	0	0	0	0	0.08
JASSA FALCATA	0	0	4	2	0	1	0	1	1	3	4	0	1.33
LISTRIELLA MELANICA	1	0	0	0	0	0	0	0	0	0	0	0	0.08
LISTRIELLA GOLETA	0	0	0	0	0	0	0	0	0	1	0	0	0.08
LISTRIELLA FRIEPISEA	0	0	0	0	0	0	1	0	0	0	0	0	0.08
LISTRIELLA DIFFUSA	0	0	0	1	0	0	0	0	0	0	0	1	0.17
PACHYNUS BARNARDI	0	0	0	0	1	0	0	0	0	0	1	0	0.17
SYNHELIDIUM SP.	1	0	0	0	0	0	0	0	0	0	0	0	0.08
RHEPOXYNIUS BICUSPIDATUS	1	0	0	0	0	0	0	0	0	0	0	0	0.08
RHEPOXYNIUS EPISTOMUS	4	0	0	0	1	1	1	2	2	2	0	0	1.08
RHEPOXYNIUS HETEROCUSPIDATUS	0	0	0	0	0	1	0	0	0	0	0	0	0.08
PARAPHOXUS VARIATUS	0	0	0	1	1	1	0	0	0	0	0	0	0.25
GAMMARIDEA, UNID.	0	0	0	0	0	0	0	0	0	0	1	0	0.08
CALLIANASSA SP.	1	0	0	0	0	0	0	0	0	0	0	0	0.08
PINNIXA SP.	0	5	0	0	1	0	1	0	3	1	1	2	1.17
AFFVERITA RECLUZIANA	0	0	0	0	0	0	0	0	0	0	1	0	0.08
MASSARIUS PERPINGUIS	0	0	0	1	0	0	0	0	0	0	0	0	0.08
CLIVELLA BAETICA	0	0	0	0	1	0	2	3	0	0	0	0	0.50
KURTZIELLA PLUMBEA	0	0	0	0	0	0	0	1	0	0	0	0	0.08
TURRONILLA SP. I	1	0	0	0	0	0	0	0	0	0	0	0	0.08
YCOLOIA SCISSURATA	0	0	0	1	2	0	0	0	1	0	0	0	0.33
MYTILIDAE, UNID.	0	0	0	0	1	0	0	0	0	0	0	0	0.08
CHIONE SP.	0	0	0	0	0	0	0	1	0	0	0	0	0.08
COOPERELLA SUBDIAPHANA	1	1	0	2	2	1	0	1	4	0	3	0	1.25
TELLINA MODESTA	0	3	1	2	2	3	1	2	1	2	0	1	1.50
MACOMA SP.	0	1	0	1	0	0	0	0	2	1	0	0	0.42
SILIGUA LUCIDA	0	0	0	1	1	0	0	1	0	0	1	0	0.33
PERILOMA PLANIUSCULUM	0	1	0	0	0	0	0	0	0	1	0	0	0.17
PELFCYPODA, UNID.	0	0	0	0	0	0	0	0	1	0	0	1	0.08
DENTALIUM SP.	1	0	0	0	0	0	0	0	0	0	0	0	0.08
PHORONIDA, UNID.	0	1	0	0	0	3	0	1	0	1	0	0	0.50
GLOTTIDIA ALHIDA	0	0	1	0	0	0	0	0	0	0	0	0	0.08
HEMICHORDATA, UNID.	1	1	1	1	1	1	0	1	1	0	1	1	0.83

Table III-3. Subtidal infaunal species density (mean number per liter) by replicate, May 1979 (Cont).

21 May 1979

STATION C1

SPECIES	REPLICATES					MEAN
	1	2	3	4	5	
PLATYHELMINTHES, UNID.	0	0	0	1	0	0.20
CARINOMA MUTABILIS	2	2	0	2	1	1.40
NICHURA ALASKANSIS	0	0	0	1	0	0.20
EUSIGALION SPINOSUM	0	1	0	0	2	0.60
TEONIF ALBA	2	0	1	0	0	0.60
TEONIF LIGHTI	0	0	0	0	1	0.20
NEPHYS SP.	0	0	1	0	0	0.20
GLYCIDIF ARYIGERA	1	0	1	1	1	0.80
CONIADA LITTORFA	2	0	1	2	1	1.20
LUMBRINERIS TETRAURA	0	0	1	0	0	0.20
LUMBRINERIS SP.	0	3	1	0	0	0.80
HAPLOSCOLOPLOS FLONGATUS	2	6	5	4	5	4.40
SCOLOPLOS ARMIGER	3	3	8	8	4	5.20
ACESTA CATHERINAE	0	2	2	4	2	2.00
PRIONOSPION CIRRIFERA	1	0	0	1	0	0.40
SPIOPHANES HOMBUX	4	2	0	2	0	1.60
MAGELONA PTELKAT	1	1	0	0	2	0.80
NEIDIOMASTUS ACUTUS	0	1	0	0	0	0.20
ACTOMASTUS TENUIS	0	0	1	0	0	0.20
ANASTIGOS ACUTUS	0	4	4	3	9	4.00
CHATA COLLARIS	0	0	2	0	0	0.40
PECTIAARIA CALIFORNIENSIS	0	1	3	2	1	1.40
MAELANA OCCIDENTALIS	0	1	0	2	0	0.60
PISTA FASCIATA	0	0	0	0	1	0.20
CALLIPALLENE SP.	0	0	1	0	0	0.20
CYLINDROLEBERIDIIDAE, UNID.	0	0	0	1	0	0.20
PLTIDERMA ROSTRATA	0	0	0	1	0	0.20
ECHAUSTORIUS WASHINGTONIANUS	5	2	1	1	1	2.00
PHOTIS SP.	1	0	0	0	0	0.20
PHOTIS CALIFORNICA	1	0	0	0	0	0.20
JASSA FALCATA	0	0	1	0	1	0.40
MONOCULODES HARTMANAE	0	0	1	0	0	0.20
HEPEPOXYMIUS RICUSPIDATUS	2	0	4	7	4	3.40
HEPEPOXYMIUS EPISTOMUS	0	0	0	0	1	0.20
ISOCHELES PILSUS	0	0	1	0	0	0.20
PAGURISTES SP.	0	0	0	0	1	0.20
PINNIXA SP.	0	0	1	0	0	0.20
MASSARTUS PERPINGUIS	1	0	0	0	0	0.20
CLIVELLA BAETICA	0	0	1	0	0	0.20
KURTZIELLA PLUMBEA	1	0	1	0	0	0.40
YULIDIA SCISSURATA	1	0	0	0	0	0.20
TELLINA MODESTA	3	0	5	1	1	2.00
MACOMA SP.	0	0	0	0	1	0.20
GENORASTER EXCENTRICUS	0	0	4	0	1	1.00



Table III-3. Subtidal infaunal species density (mean number per liter) by replicate, May 1979 (Cont).

STATION C2 21 May 1979

SPECIES	REPLICATES												MEAN
	1	2	3	4	5	6	7	8	9	10	11	12	
NEREIDA, UNID.	1	0	1	0	0	0	0	0	1	0	0	0	0.25
CARINOMA MUTABILIS	1	3	0	0	0	0	0	1	0	1	0	2	0.67
FARNOITHE LUNULATA	0	0	0	0	0	1	0	0	0	0	0	0	0.08
STHFNELAIS VERRUCULOSA	0	0	0	0	0	0	0	0	0	0	1	0	0.08
FUSTIGALION SPINGSUM	0	0	0	0	0	0	0	1	0	1	1	0	0.25
FURPHROSTHE PAUCIBRANCHIATA	0	0	0	1	0	0	0	0	0	0	0	0	0.08
ETEONE ALBA	0	0	0	0	1	0	0	0	0	0	0	0	0.08
GYPTIS BREVIPALPA	0	0	0	0	0	0	1	0	0	0	0	0	0.08
TYPOSYLLIS ACTICULATA	0	0	0	0	0	0	0	0	1	1	0	0	0.17
PEREUS SP.	0	1	0	0	0	0	0	0	0	0	0	0	0.08
NEPHTYS CAECOIDES	0	1	0	0	0	0	0	0	0	0	0	0	0.08
GLYCERA SP.	0	0	1	0	0	0	0	0	0	0	0	0	0.08
GONIADA LITTOREA	0	0	2	2	0	1	1	2	1	0	1	0	0.83
ACTHRIA IRIDESCENS	0	0	0	0	0	0	0	0	0	1	0	0	0.08
LUMBRINERIS LATREILLI	0	0	0	0	0	1	0	0	0	0	0	0	0.08
LUMBRINERIS TETRAURA	0	0	0	1	0	0	1	0	0	0	0	1	0.25
LUMBRINERIS SP.	0	1	0	1	0	0	2	1	2	0	0	1	0.67
LUMBRINERIS PLATYPYGUS	0	0	0	0	0	0	1	0	0	0	0	0	0.08
ARABELLA IRICOLOR	0	0	0	0	0	0	0	1	0	0	0	0	0.08
PALOSCULOPILOS FLONGATUS	0	0	0	0	0	0	1	0	0	0	0	0	0.08
SCOLOPILOS ARMIGER	0	4	0	0	2	3	0	0	1	0	0	0	0.83
TAURERIA OCCULATA	0	0	0	0	0	0	1	0	0	0	0	0	0.08
ACESTA CATHERINAE	0	0	2	7	1	2	1	1	0	0	1	1	1.33
PGLYDORA SP.	0	0	0	0	1	0	0	0	1	0	0	0	0.17
APOPRIONOSPIR PYGMAEUS	1	0	0	0	1	1	0	1	0	0	1	2	0.58
SPHIOPHANE RIMBYX	1	0	0	0	0	0	1	0	0	1	0	0	0.25
SPHIOPHANE MISSIQUENSIS	0	0	0	0	0	0	0	0	0	0	1	0	0.08
MAGELONA SACCOLATA	0	1	0	0	0	0	1	0	0	0	1	0	0.25
CHAETOCYBE SETOSA	1	2	0	0	0	0	0	4	0	2	2	0	0.92
MEDIOMASTUS AMBISETA	0	0	0	0	0	0	2	0	0	0	1	0	0.25
MEDIOMASTUS ACUTUS	0	0	0	0	0	0	0	0	0	0	0	6	0.50
MEDIOMASTUS CALIFORNIENSIS	0	0	0	0	0	1	0	0	0	0	0	0	0.08
ANASTIGOS ACUTUS	3	0	3	11	1	0	3	3	2	3	2	1	2.67
GRENTIA COLLARIS	3	1	1	1	2	0	1	0	2	2	1	1	1.25
PETIARIA CALIFORNIENSIS	0	0	0	0	0	2	0	1	2	2	1	0	0.67
AMPHARETE LAHPOPS	0	0	0	0	0	0	4	2	1	1	0	0	0.67
AMAFANA OCCIDENTALIS	0	1	1	0	1	5	3	1	0	2	1	3	1.33
FISTA FASCIATA	0	0	0	1	0	0	0	0	0	0	0	0	0.08
POLYCIRRHUS SP.	1	0	0	0	0	0	0	0	1	0	0	0	0.17
CYLINDROBERBERIDIAE, UNID.	0	0	0	0	0	0	0	2	0	0	0	0	0.17
EUPHILOMEDES LONGISETA	5	8	2	0	3	5	5	4	7	0	4	3	3.83
EUPHILOMEDES CARCHAHOIDONTA	0	1	0	0	0	0	0	0	0	0	0	0	0.08
EUPHILOMEDES SP.	2	0	0	0	0	0	0	0	0	0	0	0	0.17
ARCHICOLURUS OCCIDENTALIS	0	1	0	0	2	0	0	1	0	0	0	0	0.33
DIASTYLOPSIS TENUIS	0	4	3	4	1	5	1	1	8	8	1	0	3.00
CAMPYLASPIIS SP. C	0	0	0	0	0	0	0	1	0	0	0	0	0.08
CYUROSTYLIS PACIFICA	0	0	0	0	0	0	0	0	0	0	1	0	0.08
RATHYCOPEA GRANULATUS	0	0	0	0	4	0	1	0	1	0	2	0	0.67
ECOTEA SUBLITTORALIS	0	0	0	0	0	0	1	1	0	1	0	0	0.25
ARGISSA HAMATIPES	1	4	0	0	0	0	0	0	1	1	1	1	0.75
ECHAUSTORIUS WASHINGTONIANUS	0	0	0	0	0	0	0	1	0	0	0	0	0.08
PHOTIS SP.	0	6	3	2	1	4	2	1	1	2	3	1	2.17
PHOTIS MACROTTICA	0	2	0	2	0	1	1	0	0	0	0	0	0.50
JASSA FALCATA	2	0	0	0	0	0	1	0	0	0	0	0	0.25
SYNCHELIDIUM SP.	0	0	1	0	0	0	0	0	0	0	1	0	0.17
HEPOXYAIUS EPISTOMUS	1	0	0	2	1	2	0	0	1	0	1	5	1.08
STENOITHE ESTACOLA	0	0	2	0	0	0	0	1	0	0	0	0	0.25
CAPRELLIDAE, UNID.	1	0	0	0	0	0	0	1	0	0	0	0	0.17
CEYRIDES SP. A	0	0	0	0	0	0	1	0	0	0	0	0	0.08
CALLIANASSA SP.	0	0	0	0	1	0	1	0	0	0	1	0	0.33
ISICHELES PILOSUS	0	0	0	0	1	0	0	0	1	0	0	0	0.17
HENIGRAPSUS SP.	0	0	1	0	0	0	0	0	0	0	0	0	0.08
CAPCUM CREBRICINCTUM	0	0	0	0	0	0	0	0	0	0	1	0	0.08
CIIVELLA BAETICA	1	1	0	1	0	0	0	1	1	3	0	6	1.17
AGLAJA DIOMEDEA	0	0	0	1	0	0	0	0	0	0	0	0	0.08
YOLDIA SCISSURATA	0	0	0	0	0	0	1	1	0	0	0	0	0.17
HAEROMYA COMPRESSA	0	0	0	2	1	1	0	1	0	0	0	1	0.50
CLINOCARDIUM NUTTALLII	0	0	0	0	0	0	0	1	0	0	0	0	0.08
MACTRIDAE, UNID.	0	0	0	0	1	1	0	0	0	0	0	0	0.17
TELLINA MODESTA	1	1	0	0	1	0	1	0	1	0	0	1	0.50
SILICHA LUCINA	0	0	2	0	0	0	0	1	0	0	0	0	0.25
PERIPILOMA PLANIUSCULUM	0	1	1	1	0	0	0	0	0	0	0	0	0.25
OPHIUROIDEA, UNID.	0	0	0	0	0	0	0	0	0	1	0	0	0.08
OPHIOPHRAGMUS URTICA	0	0	0	0	0	0	0	1	0	0	0	0	0.08
DENDRASTER EXCENTRICUS	0	0	0	0	0	1	1	1	1	0	1	0	0.42

Table III-3. Subtidal infaunal species density (mean number per liter) by replicate, May 1979 (Cont).

STATION C5      22 May 1979

SPECIES	REPLICATES												MEAN
	1	2	3	4	5	6	7	8	9	10	11	12	
ANTHOZOA, UNID.	0	0	0	0	0	0	1	0	0	0	0	0	0.08
EDWARDSIIDAE, UNID.	0	0	0	0	1	0	0	0	0	0	0	0	0.08
ISUEDWARDSIA SP. A	1	1	0	0	0	0	0	1	0	0	0	0	0.25
EDWARDSIA SIPUNCULOIDES	0	1	0	1	0	1	2	0	1	0	0	0	0.50
NERTEEA, UNID.	0	0	0	0	1	0	1	3	3	0	0	0	0.67
CARINOMA MUTABILIS	2	1	1	3	0	1	5	0	1	0	0	1	1.25
NERTEEA, UNID.	0	2	0	0	1	0	0	1	0	0	1	0	0.42
HARMOTHOE LUMULATA	0	0	0	1	0	0	1	0	0	0	0	0	0.17
HARMOTHOE PRIOPS	0	0	0	0	1	0	0	1	0	0	0	0	0.17
FLSIGALION SPINOSUM	0	0	0	0	0	0	1	0	2	0	0	0	0.25
TEONE LIGHTI	0	0	0	0	0	0	0	0	0	0	2	0	0.17
TYPOSYLLIS ACICULATA	1	3	0	4	1	0	2	1	0	1	0	0	1.08
STREPTOSYLLIS SP.	0	0	0	0	0	0	1	0	0	0	0	0	0.08
NEPHTYS CAECOIDES	0	0	0	1	0	0	0	0	0	0	0	0	0.08
NEPHTYS CURNUTA FRANCISCANA	0	1	0	1	0	0	0	1	1	1	1	0	0.50
GLYCERA SP.	0	0	1	0	1	0	2	0	0	0	0	0	0.50
GLYCIDAE ARMIGERA	0	0	1	1	1	0	0	0	0	0	0	0	0.25
GONIADA LITTOREA	0	2	2	3	6	2	1	4	2	2	1	1	2.17
GONIADA SP.	0	0	0	0	0	0	0	1	0	0	0	0	0.08
ACTHRIA SP.	0	0	0	1	0	0	1	0	0	0	0	0	0.17
LUMBRINERIS LATREILLI	0	1	0	0	0	0	0	1	0	0	0	0	0.17
LUMBRINERIS TETRAURA	0	0	0	1	1	3	1	1	0	0	1	0	0.67
LUMBRINERIS SP.	1	0	2	2	0	1	2	0	4	1	4	0	1.42
LUMBRINERIS PALLIDA	0	1	0	0	0	0	0	0	0	0	0	0	0.08
LUMBRINERIS CRASSIDENTATA	0	0	0	0	0	1	0	0	0	0	0	0	0.08
HAPLOSCOPULOS FLOREATUS	0	1	0	0	0	0	0	0	0	0	0	0	0.08
SCOPULOS ACMECEPS	0	0	0	0	0	0	1	0	0	0	0	0	0.08
SCOPULOS ARMIGER	0	0	0	1	0	0	0	0	0	0	0	0	0.08
ACESTA CATHERINAE	4	6	3	9	2	5	10	9	0	2	4	1	4.58
ACESTA MORIKOSHI	0	0	0	0	0	0	0	0	0	2	0	0	0.17
LAGOICE CIRRATA	0	0	1	0	0	0	0	0	0	0	0	0	0.08
POLYDORA LIGHT	0	0	0	0	0	0	1	0	0	0	0	0	0.08
POLYDORA SP.	1	0	0	0	0	0	0	0	0	0	0	0	0.08
PRIONOSPIO CIRRIFFERA	0	1	0	0	0	0	0	0	0	0	0	0	0.08
PARAPRIONOSPION PUNCTATA	0	2	2	0	1	0	1	0	1	1	2	0	0.83
APOPRIONOSPION PYGMAEUS	1	1	1	2	1	1	1	1	1	0	2	0	1.00
SPIOPHARES HOMBYX	0	0	0	1	0	0	0	0	0	1	1	0	0.25
SPIOPHARES MISSIONENSIS	0	0	0	0	0	0	0	1	1	0	0	0	0.17
MAGELCNA SACCOLATA	0	0	0	1	0	0	0	2	0	0	0	0	0.25
SPIDOCHEPTERUS CRISTARUM	1	0	0	0	0	0	0	1	0	0	0	0	0.17
CHAETAZONE SETOSA	0	0	0	1	2	1	4	2	2	0	0	0	1.00
THARYX SP.	0	0	0	0	0	0	0	0	1	0	0	0	0.08
MEDIONASTUS AMBIFETA	17	14	9	24	4	8	47	3	8	6	6	0	12.17
MEDIONASTUS ACUTUS	3	0	1	0	0	0	0	4	0	0	0	1	0.75
MEDIONASTUS SP.	0	0	0	0	0	0	0	1	0	0	0	0	0.08
AMASTIGOS ACUTUS	0	0	0	0	0	0	0	2	0	0	0	0	0.17
MALDANIDAE, UNID.	0	0	0	0	0	0	0	0	0	0	1	0	0.08
ASYCHIS DISPARIDENTATA	0	0	0	0	0	0	1	0	0	0	2	0	0.25
CRENIA COLLARTS	0	3	0	0	0	0	0	0	1	0	0	0	0.33
AMPHARETE LABRIPS	0	1	0	0	0	0	0	0	0	0	0	0	0.08
TEREBELLIDAE, UNID.	0	0	0	0	0	0	0	0	0	0	1	0	0.08
AMELANA OCCIDENTALIS	0	0	0	2	0	0	0	0	0	0	0	0	0.17
LCIMIA MEDUSA	0	0	0	0	0	0	0	0	0	2	0	0	0.17
PISTA DISJUNCTA	0	0	0	0	0	0	1	0	0	2	0	0	0.25
PISTA FASCJATA	1	2	1	1	0	0	2	1	0	0	1	0	0.75

Table III-3. Subtidal infaunal species density (mean number per liter) by replicate, May 1979 (Cont).

STATION C3 (CONT'D) 22 May 1979

SPECIES	REPLICATES												MEAN
	1	2	3	4	5	6	7	8	9	10	11	12	
POLYCIHRUS SP.	0	0	0	0	1	0	0	0	1	0	1	0	0.25
STREBLOSOMA CRASSIRRANCHIA	0	0	0	0	0	1	0	0	0	0	0	0	0.08
SIPUNCULID SP. B	0	1	0	1	2	2	0	0	0	0	0	0	0.50
SIPUNCULID SP. C	0	0	0	3	0	0	0	0	0	0	0	0	0.25
SIPUNCULID SP. F	0	0	0	0	0	0	1	0	0	0	0	0	0.08
CYLINDROPOLYBBERIDAE, UNID.	0	0	0	1	0	1	0	0	1	1	1	0	0.42
EUPHILOMEDES CARCHARODONTA	1	7	0	0	3	0	1	1	1	0	4	0	1.50
RUTIDERMA ROSTRATA	0	0	0	1	0	0	0	0	0	0	0	0	0.08
HARPACTICOIDA, UNID.	0	0	0	0	0	0	0	1	0	0	0	0	0.08
CALANOIDA, UNID.	0	1	0	0	0	0	0	0	0	0	0	0	0.08
HEMILAMPROPS CALIFORNICA	0	3	1	0	0	0	0	1	0	0	0	0	0.42
CAMPYLASPIS SP. C	1	0	0	0	0	0	0	0	1	0	0	0	0.17
CLHELLA SP. A	0	0	1	2	0	0	0	2	0	0	0	0	0.42
CXYUROSTYLIS PACIFICA	0	2	0	0	0	0	0	0	0	0	0	0	0.17
EDOTEA SUBLITTORALIS	0	0	0	0	0	0	0	3	0	0	0	0	0.25
MUNNA UHOUITA	0	0	0	0	0	0	0	2	0	0	0	0	0.17
AMPELISCA CRISTATA	0	1	3	0	1	0	1	0	0	1	3	1	0.92
AMPHILOCHTS LITTORALIS	0	0	0	1	0	0	0	0	0	0	0	0	0.08
ACUMINODIFUTOPUS HETERORHOPUS	0	0	0	2	2	0	1	0	0	0	1	0	0.50
AMPHIDIFUTOPUS OBLATUS	0	0	0	0	0	0	0	1	0	0	0	0	0.08
ARGISSA HAMATIPES	2	0	0	1	0	2	1	3	0	1	0	0	0.83
CRAPUS TUBULARIS	0	0	0	0	0	0	0	0	0	0	1	0	0.08
JASSA FALCATA	0	9	0	0	0	0	2	1	7	0	1	1	1.75
HIPPOMEDON DENTICULATUS	0	0	0	0	0	1	0	0	0	0	0	0	0.08
MELPHISANA BOLA	0	1	0	0	1	0	0	0	0	0	0	0	0.17
SYNCHELIDIUM SP.	0	0	0	0	0	0	0	2	0	0	0	0	0.17
REPOXYMIUS EPISTOMUS	0	0	0	2	2	2	3	1	2	0	0	0	1.00
OGYRIDES SP. A	0	0	0	0	0	0	0	0	0	0	0	1	0.08
PINNIXA SP.	0	0	0	1	0	0	0	0	0	0	0	0	0.08
OLIVELLA RAETICA	6	0	0	0	0	5	7	0	2	0	0	1	1.75
KURTZIELLA PLUMBEA	0	0	0	0	0	0	0	1	0	0	0	0	0.08
SILICORHINA XYSTROPH	0	1	1	1	0	1	0	1	0	0	0	0	0.42
ACTEOCINA HARPA	0	0	0	0	0	0	1	1	0	0	0	0	0.17
AGLAJA DIOMEDEA	0	0	0	0	0	1	0	0	0	0	0	0	0.08
TERRONILLA SP. L	1	0	0	0	0	0	0	0	1	0	0	0	0.17
YOLDAIA SCISSURATA	0	1	0	0	0	0	0	1	0	0	1	0	0.25
MYTILUS EDULIS	0	0	0	0	0	0	0	0	0	0	0	1	0.08
MYSELLA PEDRUANA	0	0	0	0	0	0	0	1	0	0	0	0	0.08
COOPERELLA SUBDIAPHANA	0	0	1	0	1	2	0	1	1	1	0	0	0.58
TELLINA MODESTA	2	0	1	5	3	2	4	1	1	0	2	1	1.83
MACOMA YOLDIFORMIS	0	1	0	2	0	0	0	0	0	0	0	0	0.25
MACOMA SP.	0	0	0	3	0	0	1	0	1	0	0	0	0.42
SCLEPA SP.	0	0	0	0	0	0	0	1	0	0	0	0	0.08
SILIGUA LUCIDA	0	0	0	0	0	1	0	1	0	0	0	0	0.17
OPHIURIDEA, UNID.	1	2	0	1	0	0	0	0	0	0	1	0	0.42
DIAMPHIDIA OCCIDENTALIS	1	0	0	0	0	0	0	0	0	0	0	0	0.08

Table III-3. Subtidal infaunal species density (mean number per liter)  
by replicate, May 1979 (Cont).

21 May 1979

STATION D1

SPECIES	REPLICATES					MEAN
	1	2	3	4	5	
CARINOMA MUTABILIS	0	1	1	0	0	0.40
STMENELAIS VERRUCULOSA	1	1	0	0	0	0.40
FUSIGALION SPINOSUM	1	0	0	1	2	0.80
ANATIDES SP.	1	0	0	0	0	0.20
NEPHTYS CAECOIDES	0	1	0	0	0	0.20
NEPHTYS CORNUTA FRANCISCANA	0	0	0	0	1	0.20
GLYCERA SP.	1	0	1	0	1	0.60
LUMBRINERIS SP.	2	0	0	1	0	0.60
HAPLOSCOLOPLOS ELONGATUS	0	0	0	1	1	0.40
SCOLOPLOS ARMIGER	7	0	3	1	4	3.00
ACESTA CATHERINAE	0	0	0	0	1	0.20
PRIONOSPID CIRRIFERA	1	0	0	0	0	0.20
SPIOPHANES BOMBYX	6	7	7	4	6	6.00
SPIOPHANES MISSIONENSIS	0	1	1	0	1	0.60
SPIOPHANES SP.	0	0	1	0	0	0.20
MAGELCNA PITELKAI	2	0	2	2	7	2.60
SPIOCHAETOPTERUS COSTARUM	0	0	1	0	1	0.40
AMASTIGOS ACUTUS	3	0	6	0	8	3.40
OMENIA COLLARIS	0	0	0	1	1	0.40
PECTINARIA CALIFORNIENSIS	6	1	0	0	3	2.00
PCYNOGONIDA, UNID.	1	0	0	0	0	0.20
CYLINDROLEBERIDIDAE, UNID.	0	0	0	0	1	0.20
EUPHILOMEDES LONGISETA	0	0	0	0	1	0.20
EUPHILOMEDES CARCHARODONTA	0	1	1	0	0	0.40
DIASTYLOPSIS TENUIS	0	1	0	0	0	0.20
LEPTOCUMA FORSMANI	0	1	0	0	0	0.20
EDOTEA SUBLITTORALIS	1	0	0	0	0	0.20
PHOTIS SP.	0	0	1	0	1	0.40
PHOTIS MACROTICA	1	0	0	0	0	0.20
JASSA FALCATA	1	2	3	2	7	2.00
SYNCHELIDIUM SP.	0	1	0	0	0	0.20
RHEPOXYNIUS RICUSPIDATUS	2	2	0	0	1	1.00
RHEPOXYNIUS EPISTOMUS	0	0	1	0	0	0.20
HEPTACARPUS TAYLORI	0	0	2	0	0	0.40
LEPIDOPA CALIFORNICA	0	0	0	1	0	0.20
OLIVELLA BAETICA	0	1	1	3	2	1.40
KURTZIELLA PLUMBFA	0	0	0	1	0	0.20
TELLINA IDAE	0	5	0	0	0	1.00
TELLINA MODESTA	12	0	4	6	9	6.20
MACOMA ACOLASTA	0	1	0	0	0	0.20
MACOMA INDENTATA	3	1	0	0	0	0.80
OPHIUROIDEA, UNID.	0	0	0	0	1	0.20
ECHINOIDEA, UNID.	1	0	0	0	0	0.20
OFNDRASTER EXCENTRICUS	0	1	0	0	0	0.20

Table III-3. Subtidal infaunal species density (mean number per liter) by replicate, May 1979 (Cont).

SPECIES	STATION D2 21 May 1979												MEAN
	REPLICATES												
	1	2	3	4	5	6	7	8	9	10	11	12	
PLATYHELMINTHES, UNTD.	1	0	1	0	0	0	0	0	0	0	0	0	0.17
NEMERTEA, UNTD.	0	0	0	0	0	0	1	0	0	0	1	0	0.17
CARINOMA MUTABILIS	2	0	0	0	0	0	0	0	0	1	0	0	0.25
ZYGUEPOLIA RURENS	0	0	1	0	0	0	0	0	0	0	0	0	0.08
MICRURA ALASKANSIS	0	0	0	0	0	0	0	0	0	0	0	1	0.08
HARMOTHOE PRIOPS	0	0	0	0	1	0	0	0	0	0	0	0	0.08
FUSIGALION SPINOSUM	0	0	0	0	0	0	0	0	0	0	2	0	0.17
GYPTIS BREVIPALPA	0	0	0	0	1	0	0	0	0	0	0	0	0.08
TYPOSYLLIS ACICULATA	1	0	0	0	0	0	1	0	1	0	1	0	0.33
NEPHTYS SP.	0	0	0	0	0	0	0	0	1	0	1	0	0.17
SPHAERODORIDIUM MINUTUM	0	0	0	0	0	0	0	0	0	1	0	0	0.08
GLYCERA SP.	1	0	0	0	0	0	0	0	0	0	0	0	0.08
GLYCINDE ARMIGERA	1	0	0	0	0	1	2	1	1	0	0	0	0.50
GONIADA BRUNNEA	0	0	0	0	0	0	0	0	0	1	0	0	0.08
GONIADA LITTOREA	2	4	4	2	3	1	2	1	3	2	2	1	2.25
LUMBRINERIS LATREILLI	0	0	0	0	0	2	0	0	0	0	0	0	0.17
LUMBRINERIS TETRAURA	0	0	0	0	0	0	0	0	0	0	0	1	0.08
LUMBRINERIS SP.	1	1	1	0	0	0	0	0	0	0	0	0	0.25
LUMBRINERIS PALLIDA	0	0	0	0	0	0	0	0	0	0	0	1	0.08
LUMBRINERIS JAPONICA	0	0	0	0	0	0	0	1	0	0	0	0	0.08
HAPLOSCOLOPLOS ELONGATUS	0	0	0	0	1	0	0	1	0	1	1	0	0.33
SCOLOPLOS ARMIGER	0	1	0	0	0	0	1	0	3	0	0	1	0.50
PARAONELLA PLATYBRANCHIA	0	0	0	0	0	0	0	0	0	0	0	1	0.08
ACESTA CATHERINAE	2	0	2	2	1	4	2	1	0	3	9	4	2.50
SPIONIDAE, UNTD.	0	0	0	0	1	0	0	0	0	0	0	0	0.08
PARAPRIONOSPPIO PINNATA	2	0	1	0	1	2	0	0	0	0	1	0	0.58
APOPRIONOSPPIO PYGMAEUS	0	0	1	0	0	0	1	0	0	0	0	1	0.25
SPIOPHANES BOMBYX	0	0	1	0	1	1	1	1	0	0	1	0	0.50
MAGELONA SACCOLATA	0	0	0	0	0	0	1	0	0	0	0	1	0.17
SPIOCHAETOPTERUS CUSTARUM	0	0	0	0	0	0	0	0	1	0	0	0	0.08
CHAETOZONE SETOSA	0	0	0	0	0	1	0	0	0	0	0	0	0.08
MEDIOMASTUS ABISETA	0	1	0	3	0	0	1	1	0	0	1	0	0.58
MEDIOMASTUS ACUTUS	0	1	0	1	1	1	0	1	0	0	1	0	0.50
AMASTIGOS ACUTUS	31	1	34	15	1	6	16	1	1	10	19	1	11.33
OMENIA COLLARIS	0	0	0	0	0	1	0	0	0	0	0	0	0.08
PECTINARIA CALIFORNIENSIS	0	0	0	0	0	0	1	0	1	0	0	0	0.17
AMPHARETIDAE, UNTD.	0	0	0	0	0	0	0	0	0	2	0	0	0.17
AMPHARETE LARROPS	0	0	0	0	3	0	0	0	1	0	0	0	0.33
AMAEANA OCCIDENTALIS	3	0	0	2	0	1	0	0	1	0	0	1	0.67
PISTA DISJUNCTA	0	0	0	1	0	0	0	0	0	0	0	0	0.08
PYCNOGONIDA, UNTD.	1	0	0	0	0	0	0	0	1	0	0	0	0.17
CYLINDROLEBERIDIAE, UNTD.	0	0	0	0	0	0	1	2	0	0	0	0	0.25
EUPHILOMEDES LONGISETA	0	0	0	0	0	0	0	0	0	0	0	13	1.08
EUPHILOMEDES CARCHARDONTA	0	1	2	1	0	2	2	1	2	0	1	13	2.08
ANCHICOLURUS OCCIDENTALIS	0	0	1	0	0	0	0	0	0	0	0	0	0.08
DIASTYLOPSIS TENUIS	1	0	0	2	0	0	1	0	2	3	1	2	1.00
HEMILAMPROPS CALIFORNICA	0	0	0	0	0	0	0	0	0	0	1	0	0.08
CAMPYLASPIS SP. C	2	0	0	0	0	0	0	0	0	0	0	0	0.17
OXYUROSTYLIS PACIFICA	0	0	0	0	0	0	0	0	0	0	0	14	1.17
ECOTEA SUBLITTORALIS	0	1	0	1	2	0	0	2	1	0	1	1	0.75
ARGISSA HAMATIPES	1	0	1	1	0	0	0	0	1	0	0	0	0.33
PHOTIS SP.	1	0	3	0	0	0	3	0	0	1	3	1	1.00
PHOTIS MACROTICA	1	0	2	1	0	0	0	1	1	0	2	0	0.67
JASSA FALCATA	0	0	1	0	0	0	1	3	4	1	1	0	0.92
MONOCULODES HARTMANAE	0	0	0	0	0	0	0	0	1	0	0	0	0.08
RHEPOXYNIUS EPISTOMUS	2	0	0	1	1	1	0	2	1	0	1	2	0.92
GAMMARIDAE, UNTD.	1	0	0	0	0	0	0	0	0	0	0	0	0.08
CAPRELLA CALIFORNICA	0	1	0	0	0	0	0	0	0	0	0	0	0.08
OLIVELLA BAETICA	2	0	0	0	0	0	1	0	2	2	0	0	0.58
SULCORETUSA XYSTRUM	0	0	0	0	0	0	1	0	0	0	0	0	0.08
YELDIA SCISSURATA	0	4	3	0	0	0	0	3	3	1	3	1	1.50
MYTILIDAE, UNTD.	0	0	0	1	0	0	0	0	0	1	0	0	0.17
TELLINA MODESTA	0	0	0	0	1	2	1	0	0	1	2	0	0.58
MACOMA SP.	0	0	0	0	0	0	1	0	2	0	0	0	0.25
SILIIQUA LUCIDA	0	1	0	0	1	1	2	1	3	1	0	1	0.92
HIATELLA ARCTICA	0	0	0	0	0	0	0	0	0	1	0	0	0.08
PERIPLOMA PLANIUSCULUM	0	0	0	0	0	0	1	0	0	0	0	1	0.17
PHORONIDA, UNTD.	0	1	1	0	0	0	0	1	0	1	0	0	0.33
PHORONIS SP.	0	0	0	0	0	0	0	0	0	0	0	2	0.17
OPHIUROIDEA, UNTD.	0	0	0	0	1	0	0	0	0	0	0	0	0.08
DENDRASTER EXCENTRICUS	0	0	0	0	0	0	0	0	0	0	1	0	0.08

Table III-3. Subtidal infaunal species density (mean number per liter) by replicate, May 1979 (Cont).

STATION D3 23 May 1979

SPECIES	REPLICATES												MEAN
	1	2	3	4	5	6	7	8	9	10	11	12	
PLATYHELMINTHES, UNID.	0	0	0	0	0	0	0	0	1	0	0	0	0.08
NEMERTEA, UNID.	1	0	0	0	0	0	2	0	0	0	0	2	0.42
CARINOMA MUTABILIS	0	0	2	1	0	0	0	1	0	0	2	2	0.67
PARANEMERTES SP. A	1	0	0	0	0	0	0	0	0	0	0	0	0.08
CARINOMELLA LACTEA	0	0	0	0	0	0	0	0	1	0	0	0	0.08
MICRURA ALASKANSIS	0	0	0	0	0	0	0	1	0	1	0	0	0.17
HARMOTHOE LUNULATA	0	1	0	0	0	1	0	1	1	0	0	0	0.33
EUSIGALION SPINOSUM	1	0	0	0	0	0	0	0	0	0	0	0	0.08
AKAITIDES SP.	0	0	0	0	1	0	0	0	0	0	0	0	0.08
ETEONE ALBA	0	0	0	0	0	1	0	0	0	0	0	0	0.08
NEPHTYS CAECOIDES	0	0	0	0	0	0	1	0	0	0	0	0	0.08
NEPHTYS CORNUTA FRANCISCANA	0	0	1	0	0	0	0	0	0	0	0	0	0.08
NEPHTYS SP.	0	0	0	0	0	0	1	0	0	0	0	0	0.08
SPHAERODORIDIUM MINUTUM	0	0	0	0	1	0	0	0	0	0	0	0	0.08
GLYCERA SP.	1	0	2	0	0	0	0	0	1	2	0	0	0.50
GLYCIDAE ARMIGERA	0	0	0	1	0	0	0	0	2	0	0	0	0.25
GENIADA LITTORAE	0	0	0	1	0	1	1	1	4	1	4	0	1.08
GLYCIDAE SP.	0	0	1	0	0	0	0	0	0	0	0	0	0.08
ACTINIA IRIDESCENS	0	0	0	1	0	0	0	0	0	0	0	0	0.08
LYMBRINERIS TETRAUHA	0	0	0	0	0	0	0	0	1	0	0	0	0.08
LYMBRINERIS SP.	2	2	0	0	0	1	2	0	0	0	0	1	0.67
LYMBRINERIS PALLIDA	0	0	0	0	0	0	0	0	0	0	0	1	0.08
LYMBRINERIS CALIFORNIENSIS	0	0	0	0	0	0	0	0	1	0	0	0	0.08
PROTODURVILLFA GRACILIS	0	0	0	0	0	1	0	0	0	0	0	0	0.08
HAPLOSCLUPLUS ELONGATUS	0	1	2	1	0	1	0	0	1	1	0	2	0.75
SCOLOPLOS ARMIGER	1	0	0	0	0	0	1	0	0	0	0	0	0.17
ACESTA CATHERINAE	0	3	0	5	6	4	2	2	3	2	3	1	2.58
LAONICE CIRATA	0	1	0	0	0	0	0	0	0	0	0	0	0.08
PCLYDORA LIGNI	0	0	0	0	0	1	0	0	0	0	0	0	0.08
PANAPRIONOSPIO PINNATA	0	0	2	0	0	0	1	0	0	0	0	0	0.25
APRIONOSPIO PYGMAEUS	0	1	1	0	1	1	0	0	0	1	1	1	0.58
SPIOPHANES BOMBYX	0	1	0	0	1	0	0	0	1	2	0	0	0.42
SPIOPHANES MISSIONENSIS	0	0	0	0	0	1	0	0	0	0	0	0	0.08
PRIONOSPIO SP.	0	0	0	0	0	0	1	0	0	0	0	0	0.08
MAGELCNA PTELKAI	0	0	1	0	0	0	1	0	0	0	0	0	0.17
MAGELCNA SACCOLATA	0	1	0	1	3	0	0	4	2	0	1	0	1.00
PEECILOCHAETUS JOHNSONI	0	0	1	0	0	0	0	0	0	0	0	0	0.08
CHAETIZONE SETOSA	1	0	1	0	6	1	4	4	0	2	0	0	1.58
MEDIOMASTUS AMRISETA	0	3	4	1	3	8	6	2	2	1	0	2	2.67
MEDIOMASTUS ACUTUS	6	4	1	0	3	0	0	2	0	3	2	3	2.00
AMASTIGOS ACUTUS	0	0	0	0	3	0	0	0	0	1	2	0	0.50
OWENIA COLLARIS	0	0	0	0	2	0	0	0	0	1	0	0	0.25
PECTINARIA CALIFORNIENSIS	0	0	0	0	0	0	0	0	0	0	0	1	0.08
AMPHARETIDAE, UNID.	0	0	0	0	0	0	0	0	0	1	0	1	0.17
AMPHARETE LAHRIPS	0	1	1	0	1	2	1	0	0	0	0	0	0.50
AMAFANA OCCIDENTALIS	1	2	0	2	0	2	1	1	0	3	0	2	1.17
PISTA DISJUNCTA	0	0	0	0	0	0	0	0	0	1	0	1	0.17
PCLYCIRPUS SP.	0	0	0	0	0	0	0	0	0	0	1	0	0.08
STIPUNCULID SP. B	0	0	1	0	0	0	2	0	0	0	1	0	0.33
CYLINDROLEBERIDIDAE, UNID.	0	1	1	0	5	0	3	2	3	0	0	3	1.50
EUPHILOMEDES CARCHARODONTA	0	0	1	0	0	1	0	0	0	0	0	0	0.17
CYCLOLEBERIS AMERICANA	0	1	0	0	0	0	0	0	0	0	0	0	0.08

Table III-3. Subtidal infaunal species density (mean number per liter) by replicate, May 1979 (Cont).

STATION D3 (CONT'D) 23 May 1979

SPECIES	REPLICATES												MEAN
	1	2	3	4	5	6	7	8	9	10	11	12	
CALANOIDA, UNID.	1	1	0	0	0	0	0	0	0	0	2	0	0.33
MYSIDOPSIS CALIFORNICA	0	0	0	0	0	0	0	1	0	0	0	0	0.08
CUMACEA, UNID.	0	0	0	0	0	0	0	0	0	1	0	0	0.08
CYCLASPIS NUBILA	0	1	2	0	1	0	0	1	0	0	0	1	0.50
DIASTYLOPSIS TENUIIS	0	0	0	0	1	1	2	0	0	0	0	0	0.33
HEMILAMPROPS CALIFORNICA	0	1	2	0	1	0	0	0	1	0	1	1	0.58
CAMPYLASPIS SP. C	0	0	0	0	1	0	0	0	0	0	1	0	0.17
CUMELLA SP. A	0	0	0	0	1	0	0	0	0	1	0	0	0.17
CYXUROSTYLIS PACIFICA	0	0	1	0	1	0	2	0	1	0	0	0	0.42
ECOTFA SUBLITTORALIS	0	0	2	0	0	1	0	0	0	0	0	0	0.25
ACROIDES COLUMBIAE	0	1	0	0	0	0	0	0	0	0	0	0	0.08
ACUMINODITOPUS HETERUROPIUS	0	0	0	0	0	0	0	0	0	0	0	1	0.08
ARGISSA HAMATIPES	0	1	4	0	1	0	3	0	0	0	0	5	1.17
MEGALUROPIUS LONGIMERUS	0	0	0	0	0	0	0	0	0	0	0	1	0.08
PHOTIS SP.	0	1	1	1	1	0	2	0	0	0	1	3	0.83
PHOTIS CALIFORNICA	0	0	0	0	0	0	0	0	2	0	0	0	0.17
PHOTIS MACROTICA	0	1	0	0	0	0	0	0	0	1	1	0	0.25
JASSA FALCATA	0	0	0	0	0	0	9	2	1	0	0	0	1.00
MELPHISANA BOLA	0	0	0	0	0	1	0	0	0	0	0	0	0.08
SYNCHELIDIUM SP.	0	1	0	0	0	0	0	0	0	0	0	0	0.08
MONOCULODES HARTMANAE	0	0	1	0	0	0	0	0	1	0	1	0	0.25
RHEPOXYNIUS EPISTOMUS	0	1	0	1	1	2	0	0	0	0	2	0	0.58
TIRON BIOCELLATA	0	0	0	0	1	0	0	0	0	0	0	0	0.08
TIRON TROPAKIS	0	0	1	0	0	1	0	0	0	0	0	1	0.25
CALLIANASSA SP.	0	0	0	0	0	0	0	1	0	0	0	0	0.08
ISOCHAELES PILOSUS	0	1	0	0	0	1	0	0	0	0	0	0	0.17
CAECUM CREBRICINCTUM	0	0	0	0	0	0	1	0	0	0	0	1	0.17
NASSARIUS PERPIAGUIS	0	1	0	0	0	0	0	0	0	0	0	0	0.08
OLIVELLA BAETICA	3	5	0	1	1	0	0	0	0	0	0	4	1.17
AGLAJA DIOMEDEA	0	0	0	0	0	0	0	0	0	0	0	1	0.08
NEAEROMYA COMPRESSA	0	0	0	0	0	0	0	0	0	3	0	0	0.25
TELLINA MODESTA	0	0	0	0	0	0	0	1	0	1	0	1	0.25
MACOMA YOLDIFORMIS	0	1	0	0	0	0	0	0	0	0	0	0	0.08
SILIOUA LUCIDA	1	0	4	1	8	4	0	2	3	2	1	2	2.33
PHORONIDA, UNID.	0	0	0	0	0	1	0	0	0	0	0	0	0.08
GLOTYIDIA ALBIDA	0	0	0	0	0	0	0	0	0	1	0	0	0.08
OPHIUROIDEA, UNID.	1	1	0	0	0	1	0	0	0	0	0	0	0.25
OPHIOPHRAGMUS DIGITATA	0	0	0	0	1	0	1	0	0	0	0	0	0.17
CHAETOGNATHA, UNID.	0	0	0	0	0	0	0	0	0	2	0	0	0.17

Table III-3. Subtidal infaunal species density (mean number per liter) by replicate, May 1979 (Cont).

21 May 1979

STATION F1

SPECIES	REPLICATES					MEAN
	1	2	3	4	5	
NEMERTEA, UNID.	0	0	0	1	0	0.20
CARINOMA MUTABILIS	0	0	1	0	0	0.20
MICRURA ALASKANSIS	0	0	0	1	0	0.20
FUSIGALION SPINDSUM	0	0	1	1	0	0.40
ETEONE ALBA	0	0	0	0	1	0.20
NEPHTYS CAECOIDES	0	1	1	1	0	0.60
GLYCERA CAPITATA	0	1	0	0	0	0.20
GONIADA LITTorea	0	0	0	0	1	0.20
LUMBRINERIS LATREILLI	1	0	0	0	0	0.20
HAPLOSCOLOPLOS ELONGATUS	0	0	0	0	2	0.40
SCOLOPLOS ARMIGER	5	0	1	2	7	3.00
DISPID UNCINATA	1	0	0	0	0	0.20
APOPRIONOSPIO PYGMAEUS	1	4	5	2	0	2.40
SPIOPHANES ROMBYX	3	3	9	3	4	4.40
MAGELONA PITEUKAI	1	1	1	0	1	0.80
SPIOCHAETOPTERUS COSTARUM	1	0	0	0	0	0.20
MEDIOMASTUS AMBISETA	1	0	0	0	0	0.20
AMASTIGCS ACUTUS	0	0	2	1	5	1.60
GYENIA COLLARIS	0	0	1	0	0	0.20
PECTINARIA CALIFORNIENSIS	0	3	0	1	2	1.20
AMAEANA OCCIDENTALIS	0	0	0	0	1	0.20
PISTA FASCIATA	1	0	1	0	0	0.40
SIPUNCULID SP. A	1	0	0	0	0	0.20
PYCNOGONIDA, UNID.	0	1	0	0	0	0.20
CYLINDROLEBERIDIDAE, UNID.	0	0	1	0	0	0.20
EUPHILOFOES LONGISETA	0	1	4	1	0	1.20
CALANOIDA, UNID.	1	0	0	0	0	0.20
ANCHICOLURUS OCCIDENTALIS	1	1	1	0	0	0.60
DIASTYLOPSIS TENNIS	1	5	5	0	0	2.20
LEPTOCUMA FORSMANI	0	0	1	0	0	0.20
ATYLUS TRIDENS	1	0	0	0	0	0.20
ECHAUSTORIUS WASHINGTONIANUS	0	1	1	0	1	0.60
PHOTIS MACROTICA	1	0	0	0	0	0.20
JASSA FALCATA	6	3	5	4	3	4.20
SYNHELIDIUM SP.	0	0	1	0	0	0.20
MONOCULODFS HARTMANAE	0	1	0	0	0	0.20
RHEPOXYNIUS BICUSPIDATUS	0	0	1	0	3	0.80
RHEPOXYNIUS EPISTOMUS	0	0	0	1	0	0.20
TIRON TROPAKIS	2	0	0	0	0	0.40
CAPRELLA CALIFORNICA	0	1	0	0	0	0.20
CANCER GRACILIS	0	0	0	1	0	0.20
CLIVELLA HAETICA	0	4	1	0	0	1.00
TELLINA MODESTA	3	2	6	2	4	3.40
SILIOUA LUCIDA	1	0	0	0	0	0.20
PHORONIDA, UNID.	0	1	0	0	0	0.20
DENDRASTER EXCENTRICUS	0	0	1	0	0	0.20



Table III-3. Subtidal infaunal species density (mean number per liter) by replicate, May 1979 (Cont).

SPECIES	STATION E2 21 May 1979												MEAN
	REPLICATES												
	1	2	3	4	5	6	7	8	9	10	11	12	
PLATYHELMINTHES, UNID.	0	0	0	0	0	0	1	0	0	0	0	0	0.08
CARINOMA MUTABILIS	1	3	1	1	0	1	0	0	3	2	3	1	1.53
MICRURA ALASKANSIS	1	0	0	0	0	0	0	0	0	0	0	0	0.08
HARMOTHOE PRIOPS	1	0	0	0	0	0	0	0	0	0	0	0	0.08
STHENEALIS VERRUCULOSA	0	0	0	0	0	1	0	0	0	0	0	0	0.08
EUSIGALION SPINOSUM	1	1	0	0	1	0	0	0	0	0	0	0	0.25
TYPOSYLLIS ACICULATA	0	0	0	0	0	0	0	0	0	1	0	0	0.08
NEPHTYS CAECOIDES	0	0	1	0	1	1	0	0	0	0	0	0	0.25
NEPHTYS SP.	0	0	0	0	0	0	0	0	1	0	0	0	0.08
GLYCIUDE ARMIGERA	0	0	1	0	0	0	0	0	0	0	0	0	0.08
GONIADA LITTOREA	0	0	0	1	1	0	1	1	1	2	0	0	0.58
NCTHRIA SP.	0	0	1	0	0	0	0	0	0	0	0	0	0.08
LUMBRINERIS TETRAURA	0	0	0	0	0	0	1	0	0	0	0	2	0.25
LUMBRINERIS SP.	2	0	0	0	0	0	0	1	1	0	1	1	0.50
LUMBRINERIS JAPONICA	0	0	0	0	0	0	0	1	2	0	0	0	0.25
LUMBRINERIS CALIFORNIENSIS	1	0	0	0	0	0	0	0	0	0	0	0	0.08
ANABELLA IRICOLOR	0	0	0	0	0	0	0	0	1	1	0	0	0.17
HAPLOSCOLOPUS ELONGATUS	0	0	2	0	0	0	0	0	0	0	0	0	0.17
SCOLOPLOS ARMIGER	1	0	1	1	0	0	0	1	0	0	1	0	0.42
ACESTA CATHERINAE	0	0	0	3	1	0	1	0	1	0	2	0	0.67
PRIONOSPIO CIRRIFFERA	0	0	0	0	0	1	0	0	0	0	0	0	0.08
PARAPRIONOSPIO PINNATA	0	1	1	1	0	0	0	0	0	0	0	0	0.25
APOPRIONOSPIO PYGMAEUS	0	0	0	0	0	0	1	0	0	0	1	0	0.17
SPIOPHANES BOMBYX	0	0	0	0	0	1	3	0	0	0	0	0	0.33
SPIOPHANES MISSIONENSIS	0	0	0	0	0	1	0	0	0	0	0	0	0.08
MAGELONA SACCOLATA	0	0	0	2	0	0	0	0	0	0	0	0	0.17
CIRRATULIDAE, UNID.	0	1	0	0	0	0	0	0	0	0	0	0	0.08
CHAETOGONIF SEIOSA	0	0	0	0	0	0	0	1	0	0	0	0	0.08
THARYX SP.	1	0	0	0	0	0	0	0	0	0	0	0	0.08
ARMANDIA RIOCOLATA	1	0	0	0	0	0	0	0	0	0	0	0	0.08
MEDIOMASTUS AMBISFTA	2	0	0	0	0	2	0	0	0	1	3	0	0.67
MEDIOMASTUS ACUTUS	0	1	0	2	1	0	4	1	3	1	0	2	1.25
MEDIOMASTUS SP.	0	0	0	0	0	0	1	0	0	0	0	0	0.08
AMASTIGOS ACUTUS	0	0	0	4	1	0	14	1	11	0	14	2	3.92
OWENIA COLLARIS	0	2	0	0	0	1	1	0	0	1	0	0	0.42
PFCINARIA CALIFORNIENSIS	0	0	1	0	0	1	0	0	0	0	0	1	0.25
AMPHARETE LABRIPS	3	6	0	0	0	1	7	2	0	0	0	0	1.58
TERERELLIDAE, UNID.	0	0	0	0	0	0	2	0	0	0	0	1	0.25
AMAEANA OCCIDENTALIS	6	0	0	0	0	0	3	1	1	1	1	0	1.08
LCIMIA MEDUSA	0	1	0	0	0	0	0	0	0	0	0	0	0.08
PISTA DISJUNCTA	0	1	0	0	0	0	0	0	0	0	0	0	0.08
PCLYCIRHUS SP.	0	1	0	0	0	0	0	0	0	0	0	0	0.08
EUPHILOMEDES LONGISFTA	0	0	0	0	0	0	0	0	1	1	3	1	0.50
EUPHILOMEDES CARCHARODONTA	0	0	1	0	0	3	1	3	1	2	0	1	1.00
RITIDERMA ROSSTRATA	0	0	0	0	0	0	0	1	0	0	0	0	0.08
PALANUS SP.	0	0	1	0	0	0	0	0	0	0	0	0	0.08
CYCLASPIS NURILA	0	0	0	0	0	0	0	0	0	1	0	0	0.08
ANCHICOLURUS OCCIDENTALIS	0	0	0	0	0	0	0	0	1	0	0	0	0.08
DIASTYLOPSIS TENUIS	0	0	1	0	0	0	0	0	0	0	0	0	0.08
FOOTEA SUBLITTORALIS	0	0	0	0	0	0	0	1	0	0	0	0	0.08
MUNNA URUQUITA	0	0	0	0	0	0	0	1	0	0	0	0	0.08
ACROIDES COLUMBIAN	3	0	0	0	0	0	0	0	0	0	0	0	0.25
ERICHTHONIUS BRASILIENSIS	0	0	0	0	0	0	1	2	0	0	0	0	0.25
MEGALUROPIUS LONGIMERUS	0	0	0	0	0	0	0	1	0	0	0	0	0.08
PHOTIS SP.	0	0	0	0	0	0	0	0	0	1	2	0	0.25
JASSA FALCATA	2	6	2	6	0	2	0	0	2	0	0	1	1.75
RHEPOXYNIUS EPISTOMUS	3	2	0	0	1	0	6	6	3	2	0	0	1.92
TIRON TROPAKIS	0	0	0	0	0	0	0	0	2	0	0	0	0.17
CAPRELLA CALIFORNICA	0	0	0	2	0	0	0	0	0	0	0	0	0.17
CAPRELLA VERRUCOSA	0	0	0	0	0	0	1	0	0	0	0	0	0.08
HIPPOLYTE CLARKI	0	1	0	0	0	0	0	0	0	0	0	0	0.08
BRACHYURA, UNID.	0	1	0	0	0	0	0	0	0	0	0	0	0.08
CLIVELLA BAETICA	2	1	7	4	21	0	0	0	0	0	4	15	4.50
CLIVELLA SP.	0	0	0	0	0	0	0	2	0	0	0	0	0.17
KURTZIELLA PLUMBFA	0	0	0	0	1	1	0	0	1	0	0	0	0.25
SULCORETUSA XYSTRUM	0	0	1	0	0	0	0	1	0	0	1	0	0.25
CYCLOSTREMELLA DALLI	0	0	0	0	0	1	0	0	0	0	0	0	0.08
YCLDIA SCISSURATA	1	1	2	2	0	1	1	1	1	0	1	3	1.17
MYTILIDAE, UNID.	0	0	1	0	0	0	0	0	0	0	0	0	0.08
LEPTOPECTEN LATIAURATUS	0	0	0	0	0	0	0	1	0	0	0	0	0.08
COMPSONYAX SUBDIAPHANA	1	0	0	0	0	0	0	0	0	0	0	0	0.08
COOPERELLA SUBDIAPHANA	0	0	0	0	0	0	0	0	1	0	0	0	0.08
MACTRIDAE, UNID.	0	1	1	1	0	0	0	0	0	0	0	0	0.25
TELLINA MODESTA	1	0	0	0	1	1	2	2	2	1	0	1	0.92
MACOMA YOLDIFORMIS	0	1	0	0	0	0	0	0	0	0	0	0	0.08
SILIGUA LUCIDA	0	0	0	0	0	1	0	0	0	1	0	0	0.17
HERIPLOMA PLANIUSCULUM	0	0	1	1	0	0	0	1	1	0	0	1	0.42
PHORONIDA, UNID.	1	0	0	0	0	0	0	0	0	0	0	0	0.08
GLOTTIDIA ALRIDA	0	1	0	0	0	0	0	0	0	0	0	0	0.08

Table III-3. Subtidal infaunal species density (mean number per liter) by replicate, May 1979 (Cont).

STATION E3 21 May 1979

SPECIES	REPLICATES												MEAN
	1	2	3	4	5	6	7	8	9	10	11	12	
NEMERTEA, UNID.	0	0	0	0	0	0	0	1	2	1	2	0	0.50
CEREBRATULUS CALIFORNIENSIS	0	1	0	0	0	1	0	0	0	0	0	0	0.17
CARINOMA MUTABILIS	1	3	2	0	4	0	0	0	1	0	0	0	0.92
MICRURA ALASKANSIS	0	0	0	0	0	0	0	0	0	0	1	0	0.08
NEMATODA, UNID.	0	0	0	0	0	0	0	0	0	0	0	1	0.08
SYLLIDAE, UNID.	1	1	0	0	0	0	0	0	0	0	1	0	0.25
NEPHTYS CAECOIDES	1	0	0	0	1	0	0	1	1	0	1	0	0.42
NEPHTYS CALIFORNIENSIS	0	0	1	0	0	0	0	0	0	0	0	0	0.08
NEPHTYS SP.	0	0	0	0	0	0	0	0	1	0	0	0	0.08
SPHAERODOPIS BISERIALIS	0	0	0	0	0	1	0	0	0	0	0	0	0.08
GLYCFRA SP.	0	1	1	0	0	1	0	0	0	0	0	0	0.25
GONIADA LITTOREA	0	2	0	0	0	0	0	0	0	0	0	0	0.17
CAUPHIS FREMITA	0	0	1	0	0	0	0	0	0	0	0	0	0.08
NOTHRIA IRIDESCENS	0	0	0	0	0	0	0	0	1	0	0	0	0.08
PROTODORVILLEA GRACILIS	0	0	0	0	0	0	0	0	0	0	2	0	0.17
HAPLOSCOLOPLOS ELONGATUS	0	0	0	0	0	0	0	0	0	0	0	2	0.17
SCOLOPLOS ARMIGER	0	0	0	0	0	1	0	0	0	0	0	0	0.08
TAUBERIA OCULATA	0	1	0	0	0	0	0	0	0	0	0	0	0.08
ACESTA CATHERINAE	0	11	11	1	0	4	6	0	6	2	0	7	4.00
MICROSPID ACUTA	0	0	0	0	0	1	0	0	0	0	0	0	0.08
POLYDORA CAULLERYI	0	0	0	0	0	0	0	0	0	2	0	0	0.17
APOPRIONOSPID PYGMAEUS	0	0	0	0	0	2	0	1	0	0	0	3	0.50
SPIOPHANES BOMBYX	0	0	1	1	1	0	0	0	0	0	0	1	0.33
SPIOPHANES HERKELEYORUM	0	0	0	0	0	0	1	0	0	0	0	0	0.08
RHYNCHOSPID SP.	0	0	2	0	0	0	0	0	0	0	0	0	0.17
MAGFLONA SACCOLATA	0	0	0	0	0	0	0	0	0	0	0	1	0.08
CHAETOZONE SETOSA	0	0	0	1	0	0	0	0	0	0	0	1	0.17
THARYX SP.	0	0	0	0	0	1	1	0	0	0	0	0	0.17
MEDIOMASTUS AMHISETA	7	12	9	7	2	1	0	2	4	3	4	4	4.58
MEDIOMASTUS ACUTUS	3	3	2	0	0	0	0	0	1	0	0	1	0.83
MEDIOMASTUS CALIFORNIENSIS	0	0	0	0	0	0	1	6	0	3	2	2	1.17
MEDIOMASTUS SP.	0	0	0	0	2	0	1	0	0	1	0	0	0.33
AMASTIGOS ACUTUS	1	0	0	0	0	0	0	1	0	0	0	0	0.17
OMENIA COLLARIS	0	0	0	0	0	0	0	0	0	0	1	0	0.08
SIPUNCULID SP. H	0	1	0	0	0	0	0	0	0	0	0	0	0.08
SIPUNCULID SP. C	0	0	0	0	0	1	0	0	0	0	0	0	0.08
SIPUNCULID SP. D	0	0	0	0	0	0	0	0	0	0	0	2	0.17
ASTEROPPELLA SP. S	0	1	0	0	0	0	0	0	0	0	0	0	0.08
CYCLOLEHERIS AMERICANA	0	0	0	0	0	0	0	0	0	0	1	0	0.08
CALANOIDA, UNID.	0	0	1	0	0	0	0	0	0	0	0	0	0.08
RALANUS SP.	0	0	0	0	0	0	0	0	0	0	1	0	0.08
CYCLASPIS NURILA	0	0	0	0	0	1	0	0	0	0	0	0	0.08
HEMILAMPROPS CALIFORNICA	1	0	0	0	0	0	0	0	1	0	0	0	0.17
ANPELISCA CRISTATA	0	0	0	0	0	0	0	0	0	0	1	0	0.08
AMPHILOCHUS NEAPOLITANUS	0	0	0	0	1	0	0	0	0	0	0	0	0.08
MEGALURGUS LONGIMERUS	3	0	0	1	1	2	0	3	1	0	0	0	0.92
PHOTIS SP.	0	0	0	0	0	0	0	0	0	0	0	1	0.08
JASSA FALCATA	3	0	3	0	0	0	2	0	0	0	1	0	0.75
LEPIDEPECREUM GURJANOVAE	0	0	0	0	0	0	0	0	0	0	0	1	0.08
SYNCHLIDIUM SP.	0	0	0	0	1	0	0	0	1	0	0	1	0.25
MANDIHULOPHOXUS UNCINISTRATUS	1	0	0	0	0	0	0	0	0	0	0	0	0.08
RHEPOXYNIUS EPISTOMUS	1	0	0	1	0	1	0	0	0	0	0	1	0.33
STENOTHUF ESTACOLA	0	0	1	0	0	0	0	0	0	0	0	0	0.08
TIRON TROPAKIS	0	0	0	2	1	3	0	0	4	1	0	1	1.00
CAPRELLIDAE, UNID.	1	0	0	0	0	0	0	0	0	0	0	0	0.08
CALLIANASSA SP.	1	0	0	0	0	0	0	0	0	0	0	0	0.08
NATANTIA, UNID.	0	0	0	0	0	0	1	0	0	0	0	0	0.08
CLIVELLA BARTICA	0	0	0	0	0	0	0	0	0	1	0	0	0.08
MYSELLA PEDROANA	0	0	1	0	0	0	0	0	0	0	0	0	0.08
MYSELLA GRIPPI	0	0	0	0	0	0	6	3	0	0	0	0	0.75
NEFAERCMYA CHACEI	0	0	0	0	0	2	0	0	0	0	0	0	0.17
TELLINA MODESTA	0	0	0	0	1	1	0	0	0	0	0	0	0.17
PACOMA ACOLASTA	0	0	0	0	0	0	0	0	1	0	0	0	0.08
SELEN SICARIUS	0	0	0	0	1	0	0	0	0	0	0	0	0.08
OPHIUROIDEA, UNID.	0	0	0	0	0	1	0	0	0	1	0	1	0.25
OPHIOPHRAGMUS DIGITATA	0	0	1	0	0	0	0	0	0	0	2	0	0.25
OPHIOPHRAGMUS URTICA	0	0	0	0	1	0	0	0	0	0	0	0	0.08
LEPTOSYNAPTA SP. R	0	0	0	0	0	1	0	0	0	0	0	0	0.08
HEMICHORDATA, UNID.	0	0	0	0	0	0	1	0	0	0	1	0	0.17
CHAETOGNATHA, UNID.	0	0	0	1	0	0	0	0	0	0	0	0	0.08

Table III-3. Subtidal infaunal species density (mean number per liter) by replicate, May 1979 (Cont).

21 May 1979

STATION F1

SPECIES	REPLICATES					MEAN
	1	2	3	4	5	
CARINOMA MUTABILIS	0	1	1	0	1	0.60
PARANEMERTES SP. A	0	0	0	1	1	0.40
TYPUSYLLIS ACICULATA	1	0	0	0	1	0.40
NEPHTYS CAECOIDES	2	0	0	1	1	0.80
GLYCIDAE ARMIGERA	0	0	1	0	0	0.20
CCNIADA LITTORFA	0	1	0	0	0	0.20
LUMBRINERIS SP.	1	0	1	1	0	0.60
HAPLOSCLDOPLOS ELONGATUS	0	0	2	1	1	0.80
SCOLOPLOS ARMIGER	2	0	1	2	4	1.80
SPIONIDAE, UNID.	0	1	2	0	0	0.60
APROPIONOSPIC PYGMAEUS	2	0	0	0	4	1.20
SPIOPHANES ROMBYX	0	0	9	4	2	3.00
SPIOPHANES MISSIONENSIS	0	0	0	2	1	0.60
SPIOPHANES SP.	0	0	0	0	1	0.20
MAGELONA PITEIKAI	0	2	0	0	1	0.60
MAGELONA SACCOLATA	0	0	1	0	0	0.20
MAGELONA SP.	0	0	0	1	0	0.20
CHAETOGONE SFTOSA	0	1	0	0	0	0.20
THARYX SP.	0	0	0	1	0	0.20
MEDIOMASTUS AMRISETA	3	0	0	0	0	0.60
NOTOMASTUS TENNIS	0	0	0	2	0	0.40
AMASTIGOS ACUTUS	5	1	0	1	6	2.60
CFENIA COLLARIS	2	1	1	2	3	1.60
PECTINARIA CALIFORNIENSIS	0	0	1	2	0	0.60
AMAEANA OCCIDENTALIS	0	0	0	0	2	0.40
PYCNOGONIDA, UNID.	0	0	0	1	1	0.40
ELPHILGNEDES LONGISETA	6	0	2	2	2	2.40
CYCLOPIDA, UNID.	0	1	1	0	0	0.40
DIASTYLOPSIS TENNIS	0	1	1	2	1	1.00
FRICTHONIUUS BRASILIENSIS	0	0	0	0	1	0.20
ECHAUSTORIUS WASHINGTONIAMS	0	0	2	4	3	1.80
PHOTIS SP.	0	0	0	1	0	0.20
JASSA FALCATA	2	1	1	1	0	1.00
SYNCHLIDIUM SP.	1	0	0	0	0	0.20
MCNOCULEDES HARTMANAE	0	0	1	0	0	0.20
RHEPOXYNIUS RICUSPIDATUS	0	2	1	1	4	1.60
RHEPOXYNIUS EPISTOMUS	3	1	0	5	6	3.00
GAMMARIDEA, UNID.	0	1	1	0	0	0.40
CAPRELLIDAE, UNID.	1	0	0	0	0	0.20
DEUTELLA CALIFORNICA	0	0	0	0	1	0.20
ULIVELLA HAETICA	0	0	1	1	1	0.60
DIRUNA PICTA	1	0	0	0	0	0.20
TELLINA MODESTA	3	0	1	1	1	1.20
MACOMA SP.	0	0	0	1	0	0.20
DEADRASTER EXCELSUS	0	0	1	0	0	0.20
LEPTOSYNAPTA SP.	0	0	0	0	1	0.20

Table III-3. Subtidal infaunal species density (mean number per liter) by replicate, May 1979 (Cont).

STATION F2 21 May 1979

SPECIES	REPLICATES												MEAN
	1	2	3	4	5	6	7	8	9	10	11	12	
PLATYHELMINTHES, UNID.	0	0	0	0	0	0	0	1	0	0	0	0	0.08
NEMERTEA, UNID.	2	0	0	0	0	1	0	0	1	0	0	0	0.33
CARINGMA MUTABILIS	0	0	0	0	1	0	2	0	0	1	1	0	0.42
MICRURA ALASKANSIS	0	0	0	0	1	0	0	0	0	0	0	0	0.08
HARMOTHOF PRIOPS	0	1	0	0	0	0	0	0	0	0	0	0	0.08
EUSIGALION SPINOSUM	1	0	0	1	0	2	0	0	0	0	0	0	0.33
TYPOSYLLIS ACICULATA	0	2	0	0	1	0	0	0	0	1	0	0	0.33
NEPHTYS SP.	0	0	0	0	0	0	1	0	0	0	0	0	0.08
GLYCFRA SP.	0	0	1	1	0	0	1	0	1	0	0	0	0.33
GLYCYNDE ARMIGERA	0	0	0	0	0	0	1	0	0	0	0	0	0.08
GENIADA LITTORFA	2	0	0	1	0	1	0	0	2	2	0	4	1.00
GLYCYNDE SP.	0	0	0	0	0	1	0	0	0	0	0	0	0.08
GAUPHTIS EREMITA	0	0	0	0	0	0	0	0	1	0	0	0	0.08
NOTHRIA IRIDOSCFUS	0	0	0	0	0	0	0	0	0	0	0	1	0.08
LUMBRINERIS LATREILLI	1	1	0	0	0	0	0	0	0	0	0	0	0.17
LUMBRINERIS TETRAURA	0	1	0	1	1	0	0	1	0	0	1	1	0.50
LUMBRINERIS SP.	1	0	0	1	3	1	1	0	1	0	0	0	0.67
LUMBRINERIS PALLIDA	0	0	0	0	0	0	0	0	0	0	0	1	0.08
HAPLOSCOLOPUS ELONGATUS	0	1	0	0	0	1	1	0	0	0	0	0	0.25
SCOLOPUS ARMIGER	0	0	3	0	0	0	4	0	0	1	0	0	0.67
ACFSTA CATHERINIAE	0	0	0	10	0	1	1	1	1	3	0	0	1.42
PHILOSPIO VALMGRENI	0	0	0	0	0	0	0	0	1	0	0	0	0.08
PARAPHILOSPIO PINNATA	1	0	0	0	0	2	0	0	0	0	0	0	0.25
APOPHILOSPIO PYGMAEUS	0	0	0	0	0	1	1	0	1	0	0	0	0.25
SPIOPHANES BOMBYX	1	0	0	0	0	0	0	1	1	0	0	0	0.25
MAGFLONA SACCOLATA	0	0	0	1	0	0	0	0	0	0	0	0	0.08
SPICHAEPTOPTERUS COSTARUM	0	0	1	0	0	0	0	0	0	0	0	0	0.08
CHAEPTOZONE SFTOSA	0	0	0	1	0	0	0	0	0	0	0	0	0.08
THARYX SP.	0	0	0	0	0	0	0	0	1	0	0	1	0.17
NEIDONASTIUS ACUTUS	0	1	0	1	0	0	0	1	1	0	1	1	0.50
AMASTIGUS ACUTUS	2	8	2	46	0	10	5	0	8	52	2	15	12.50
CYENIA COLLARIS	4	1	0	3	0	1	0	2	0	0	0	3	1.17
PECTINARIA CALIFORNIENSIS	0	7	1	1	2	3	0	2	2	0	1	0	1.58
ANPHARETE LABROPS	0	0	0	0	0	0	0	0	0	0	0	2	0.17
TEREBELLIDAE, UNID.	0	0	0	1	0	0	0	0	0	0	0	1	0.17
AMEAENA OCCIDENTALIS	1	1	1	1	1	1	0	2	2	0	1	2	1.08
CHONE MOLLIS	0	0	0	0	0	0	0	1	1	0	0	0	0.17
CYLINDROLEBERIDIDAE, UNID.	0	0	0	0	0	1	0	0	0	0	0	0	0.08
FLUPHILOMEDES LONGISETA	0	0	1	0	0	0	0	0	0	0	0	0	0.08
FLUPHILOMEDES CARCHARODONTA	1	0	0	0	0	0	0	0	0	0	0	2	0.25
CALANOIDA, UNID.	0	0	0	1	0	0	0	0	0	0	0	1	0.17
ARCHICULURUS OCCIDENTALIS	0	0	0	0	0	0	0	0	0	0	1	0	0.08
DIASYLOPSIS TENUIS	0	0	1	1	1	0	0	0	0	0	0	1	0.33
CAMPYLASPIS SP. C	0	0	0	0	1	0	0	0	0	0	0	0	0.08
HATHYCOPEA GRANULATUS	0	0	0	0	0	0	0	0	0	2	0	0	0.17
ARGISSA HAMATIPES	0	1	0	0	0	0	0	0	0	0	0	0	0.08
CERAPUS TURULARIS	0	0	0	1	0	0	0	0	0	0	0	0	0.08
ERICTHONIUS BRASILIENSIS	3	0	0	0	0	0	0	0	0	0	0	0	0.25
MEGALUROPOUS LONGIMERUS	0	0	0	0	0	0	0	0	0	0	1	0	0.08
RHEPOXYNTUS EPISTOMUS	2	4	2	2	2	2	1	3	1	3	1	3	2.17
CAPRELLA CALIFORNICA	0	0	0	1	0	0	0	0	0	0	0	0	0.08
CALITANASSA SP. MEGALOPS	0	0	0	0	0	0	0	0	1	0	0	0	0.08
PAGURIDAE, UNID.	0	0	0	0	0	0	0	1	0	0	0	0	0.08
ISOCHELES PILOSUS	0	0	0	0	0	0	0	0	1	0	0	0	0.08
CANCER GRACILIS	1	0	0	0	0	0	0	0	0	0	0	1	0.17
OLIVELLA BAETICA	1	10	1	57	18	5	1	1	0	0	0	0	6.17
KURTZIELLA PLUMBEA	0	1	0	0	0	0	0	0	0	0	0	0	0.08
SILCORETUSA XYSTRUM	0	0	0	0	0	0	0	0	0	0	0	1	0.08
ACTECCINA HARPA	1	0	0	0	0	0	0	0	0	0	0	0	0.08
ACTECCINA INCULTA	1	0	0	0	0	0	0	0	0	0	0	0	0.08
GCOSTOMIA SP.	0	0	0	0	0	0	0	1	0	0	0	0	0.08
CYCLIDSTREMELEA DALLI	0	0	0	0	0	0	0	1	0	0	0	0	0.08
YLDIA SCISSURATA	1	0	0	0	2	0	2	0	0	0	0	0	0.42
MYSFLIA GOLISCHI	0	0	0	0	0	0	0	0	1	0	0	0	0.08
MYSSELLA PEDROANA	0	1	0	0	0	0	0	0	0	0	0	0	0.08
NEAERGOMYA COMPRESSA	0	0	0	2	0	0	1	0	0	0	0	0	0.25
CGOPHRELLA SUBDIAPHANA	0	0	0	0	0	0	0	1	0	0	0	0	0.08
TELLINA MODESTA	1	3	5	5	4	1	5	0	0	4	5	1	2.83
SILIGUA LUCIDA	0	1	0	0	1	1	0	0	0	1	0	0	0.33
PHORONIDA, UNID.	1	0	0	1	0	0	0	0	0	0	0	0	0.17
OPHIUROIDEA, UNID.	0	0	0	1	0	0	0	0	0	0	0	0	0.08
HEMICHORDATA, UNID.	0	0	0	1	1	0	0	0	0	0	0	0	0.17

Table III-3. Subtidal infaunal species density (mean number per liter) by replicate, May 1979 (Cont).

STATION F3 21 May 1979

SPECIES	REPLICATES												MEAN
	1	2	3	4	5	6	7	8	9	10	11	12	
ISOEDWARDSIA SP. A	0	0	1	0	0	0	0	0	0	0	0	0	0.08
NEMERTEA, UNID.	1	1	1	0	1	1	0	0	0	0	0	0	0.42
CARINOMA MUTABILIS	0	3	2	0	2	0	0	1	0	3	1	1	1.08
MICRURA ALASKANSTIS	0	0	0	0	0	0	0	0	0	0	0	0	0.08
NEMATODA, UNID.	1	0	0	0	0	0	0	0	0	0	1	0	0.17
STHENELAIS VERRUCULOSA	0	0	3	0	0	0	0	0	0	0	0	0	0.25
FUSIGALION SPINOSUM	0	0	2	0	1	0	0	0	0	0	1	1	0.42
ANATIDES SP.	0	0	0	1	0	0	0	0	0	0	0	0	0.08
ETRON LIGHTI	0	0	1	0	0	0	0	0	0	0	0	0	0.08
TYPOSYLLIS ACICULATA	2	2	0	0	0	1	2	0	0	2	0	0	0.75
NEPHTYS CAECOIDES	1	0	0	0	0	0	0	0	1	0	0	0	0.17
NEPHTYS CORNUTA FRANCISCANA	0	0	0	0	0	1	0	1	1	1	0	1	0.42
GLYCERA CONVOLUTA	0	0	0	1	0	0	0	0	0	0	0	0	0.08
GLYCERA SP.	0	0	0	1	0	0	0	0	0	0	0	0	0.08
GLYCIIDE ARMIGERA	2	0	1	0	0	1	0	0	0	0	0	0	0.33
GONIADA LITTOREA	0	3	1	2	5	2	3	0	0	1	1	3	1.75
GONIADA SP.	0	1	0	0	0	0	0	0	0	0	0	0	0.08
NOTHRIA IRIDESCENS	0	0	0	0	0	0	1	0	0	1	1	0	0.25
LUMBRINERIS TETRAURA	1	0	2	2	0	2	0	1	0	0	3	0	0.92
LUMBRINERIS SP.	0	2	2	3	2	0	1	0	0	3	0	2	1.25
PARFULEPIS FIMBRIATA	0	0	0	0	0	0	1	0	0	0	0	0	0.08
HAPLOSCOLOPLOS ELONGATUS	0	0	0	0	0	1	0	0	0	1	0	0	0.17
SCOLOPLOS ARMIGER	1	0	0	0	0	0	0	2	0	0	0	0	0.25
TAUBERTIA OCULATA	0	1	0	0	0	0	0	0	0	0	0	0	0.08
ACESTA CATHENTHAE	2	3	0	0	0	3	4	0	1	3	0	2	1.50
PARAPRIONOSPIO PINNATA	1	1	0	1	0	3	0	0	1	0	0	2	0.75
APOPRIONOSPIO PYGMAEUS	1	1	2	0	0	1	0	0	1	0	1	3	0.83
SPIOPHANES HOMBYX	0	0	1	0	1	2	0	0	0	1	2	0	0.58
SPIOPHANES MISSIONENSIS	0	1	0	0	0	0	0	3	0	1	0	0	0.42
SPIOPHANES BERKELEYURUM	0	0	0	0	0	0	0	1	0	0	0	0	0.08
POECILOCHAETUS JOHNSONI	0	0	0	0	0	0	0	0	1	0	0	0	0.08
CHAETOZONE SETOSA	0	5	1	3	2	3	5	5	1	4	6	4	3.25
THARYX SP.	0	2	1	0	0	0	0	0	1	1	0	0	0.42
MEDIOMASTUS AMBISSETA	20	48	15	5	2	28	4	25	7	23	0	3	15.00
MEDIOMASTUS ACUTUS	4	7	1	0	1	0	0	5	0	1	1	0	1.67
MEDIOMASTUS CALIFORNIENSIS	1	0	1	1	0	2	0	1	0	0	0	0	0.50
AMASTIGOS ACUTUS	3	0	0	0	0	0	0	0	0	0	0	0	0.25
MALDANIDAE, UNID.	0	0	0	0	0	0	0	0	0	0	0	1	0.08
GAENIA COLLARIS	1	0	0	0	2	0	2	0	2	0	1	1	0.75
AMPHARETE LABRIPS	0	0	1	0	0	0	0	0	0	0	0	0	0.08
TEREBELLIDAE, UNID.	0	0	0	0	0	0	0	0	1	0	0	0	0.08
AMAEANA OCCIDENTALIS	0	0	4	2	0	0	2	0	0	3	1	3	1.25
POLYCIPIRUS SP.	0	0	1	0	0	1	0	0	0	0	0	0	0.17
STRELOSOMA CRASSIRANCHIA	0	0	0	0	0	0	0	0	0	0	1	0	0.08
ELCHONE INCOLOR	2	1	0	0	0	0	0	0	0	1	0	0	0.33
CYLINDROLEBERTIDAE, UNID.	0	0	0	0	0	0	0	0	0	0	2	0	0.17
EUPHILUMEDUS CARCHARODONTA	0	3	1	1	2	3	2	2	1	1	0	1	1.42
RUTIDERMA ROSTRATA	0	0	0	0	0	0	0	0	1	0	0	0	0.08
CALANGIDA, UNID.	1	1	0	0	0	0	0	0	0	1	0	0	0.25
CYCLASPIS NUBILA	0	1	6	0	0	2	0	0	0	0	0	1	0.83
CYCLASPIS SP. C	0	0	0	1	1	0	0	0	0	0	0	0	0.17
DIASTYLOPIS TENNIS	0	0	0	0	0	1	0	1	0	0	1	0	0.25
CAMPYLASPIS SP. B	0	0	0	0	0	1	1	0	0	0	0	0	0.17
CUMELLA SP. A	0	0	0	0	0	2	0	0	1	0	0	2	0.42
ONYUROSTYLIS PACIFICA	2	1	2	0	0	0	0	0	0	0	0	2	0.58

Table III-3. Subtidal infaunal species density (mean number per liter) by replicate, May 1979 (Cont).

STATION F3 (CONT'D) 21 May 1979

SPECIES	REPLICATES												MEAN
	1	2	3	4	5	6	7	8	9	10	11	12	
EMITEA SUBLITTORALIS	2	0	1	0	1	0	0	0	0	0	0	1	0.42
AMPELISCA CRISTATA	0	0	2	0	0	2	0	0	0	0	0	2	0.50
AMPELISCA COMPRESSA	0	0	0	0	0	0	0	0	0	0	0	1	0.08
ARGISSA HAMATIPES	0	2	0	0	0	0	0	0	0	0	0	0	0.17
MEGALURCPUS LONGIMERUS	1	0	0	0	0	0	0	0	0	0	0	0	0.08
PHOTIS CALIFORNICA	0	0	1	0	1	3	0	0	0	0	0	0	0.42
JASSA FALCATA	5	0	0	0	0	1	1	0	2	0	0	1	0.83
PACHYNUS BARNARDI	0	0	0	0	0	0	0	1	0	0	0	0	0.08
SYNCHELIIDIUM SP.	0	2	2	0	3	2	2	0	1	0	0	1	1.08
MNICULODES HARTMANAF	0	1	0	1	0	0	0	0	0	0	1	0	0.25
PARAPHOXUS SP.	0	0	0	0	0	0	1	0	0	0	0	1	0.17
RHEPOXYNIUS ARGENTUS	0	0	0	0	0	0	0	0	0	0	2	0	0.17
RHEPOXYNIUS EPISTOMUS	2	5	5	1	1	2	2	2	2	4	1	7	2.67
PARAPHOXUS VARIATUS	0	0	1	2	0	0	0	0	0	0	0	0	0.25
TIRON RIJOCCELLATA	1	0	0	0	0	0	0	0	0	0	0	0	0.08
OGYRIDES SP. A	0	0	0	1	0	0	0	0	0	0	0	0	0.08
OLIVELLA HAETICA	0	0	1	2	0	0	0	0	0	0	0	0	0.25
OLIVELLA SP.	0	0	0	0	1	0	0	0	0	0	0	0	0.08
SULCORETUSA XYSTRUM	0	0	1	0	0	0	0	1	1	0	0	0	0.25
TURBONILLA SP. L	0	0	0	0	0	0	0	0	0	0	1	0	0.08
MUCULANA TAPHRIA	0	0	1	0	0	0	0	0	0	0	0	0	0.08
YOLDA SCISSURATA	0	1	2	1	0	0	1	1	0	0	0	0	0.50
MDIOLUS NEGLECTUS	0	0	0	0	0	0	0	0	0	0	0	1	0.08
MYTILIDAE, UNID.	0	0	0	0	2	0	0	0	0	0	0	1	0.25
LUCINA MITTALLI	0	0	1	0	0	0	0	0	0	0	0	0	0.08
MYSELLA SP. F	0	0	0	0	0	0	0	0	0	1	0	0	0.08
NEAEROMYA COMPRESSA	0	1	3	0	0	0	0	0	0	1	1	1	0.58
CHIONE SP.	0	0	0	0	0	0	0	1	0	0	0	0	0.08
COFFRELLA SUHDIAPHANA	0	0	2	0	3	2	5	3	2	0	0	1	1.50
TELLINA MODESTA	4	2	5	2	1	2	1	2	1	1	1	1	1.92
MACOMA ACOLASTA	0	0	1	0	0	0	0	0	0	0	0	0	0.08
MACOMA SP.	0	0	0	2	0	1	0	0	0	1	0	0	0.33
SOLEN SICARIUS	0	0	0	0	0	0	0	0	0	0	1	0	0.08
SILICULA LUCIDA	0	0	1	0	2	1	2	1	1	0	1	2	0.92
PHORONIDA, UNID.	2	0	0	1	0	0	0	0	0	0	0	1	0.33
GLOTTIDIA ALBIDA	0	0	0	1	0	0	1	2	3	2	0	0	0.75
HEMICHORDATA, UNID.	0	0	0	1	0	1	1	0	1	0	1	1	0.50
CHAETOGNATHA, UNID.	0	1	1	0	0	0	0	0	0	0	0	0	0.17

Table III-4. Subtidal infaunal species density (mean number per liter) by replicate, August 1979.

29 August 1979  
STATION A1

SPECIES	REPLICATES					MEAN
	1	2	3	4	5	
NEMERTEA, UNID.	3	1	0	0	0	0.80
CERHRATULUS CALIFORNIENSIS	0	1	0	0	0	0.20
CARINOMA MUTABILIS	1	1	0	0	0	0.40
TYPOSYLLIS FASCIATA	1	0	0	0	0	0.20
GLYCERA SP.	0	1	0	0	0	0.20
SCHISTOMERINGOS RUDOLPHI	0	0	0	2	0	0.40
HAPLOSCLOPLOS ELONGATUS	0	0	0	1	1	0.40
PARAONELLA PLATYBRANCHIA	0	1	0	0	0	0.20
ACESTA CATHERINAF	0	1	0	0	0	0.20
ACESTA HORIKOSHII	0	0	0	0	1	0.20
DISPIO UNCINATA	0	0	1	0	0	0.20
APOPRIONOSPIO PYGMAEUS	67	41	58	55	86	61.40
RHYNCHOSPPIO SP.	0	0	0	1	0	0.20
MAGELONA PITELKAI	1	0	0	1	0	0.40
POLYOPHTHALMUS PICTUS	1	0	0	0	0	0.20
MEDIOMASTIUS AMBISETA	0	0	0	1	0	0.20
AMASTIGOS ACUTUS	0	3	0	0	11	2.80
PISTA FASCIATA	0	0	0	1	0	0.20
EUPHILOMEDES LONGISETA	1	1	0	1	0	0.60
RUTIDERMA JUDAYI	1	0	0	0	0	0.20
MYSIDACEA, UNID.	1	0	0	0	0	0.20
DIASTYLOPSIS TENUIS	1	1	0	2	1	1.00
LEPTOCUMA FORSMANI	0	0	1	1	0	0.40
ECOTEA SUBLITTORALIS	0	1	0	2	1	0.80
AMPELISCA COMPRESSA	1	0	0	0	0	0.20
MEGALUROPIUS LONGIMERUS	0	0	0	0	1	0.20
JASSA FALCATA	18	0	2	2	4	5.20
MICROJASSA LITOTES	1	0	0	0	0	0.20
SYNCHELIDIUM SP.	0	0	1	0	0	0.20
PHOXOCEPHALIDAE, UNID.	0	0	1	0	0	0.20
RHEPOXYNIUS RICUSPIDATUS	0	0	0	1	1	0.40
RHEPOXYNIUS EPISTOMUS	0	0	2	0	2	0.80
STENOTHOE ESTACOLA	2	0	0	0	0	0.40
CALLIANASSA SP.	0	0	0	0	1	0.20
CAECUM CALIFORNICUM	0	0	0	0	1	0.20
TIVELA STULTORUM	0	0	0	0	1	0.20
TELLINA MODESTA	2	1	2	0	5	2.00
SILIQUA LUCIDA	0	0	0	0	1	0.20

Table III-4. Subtidal infaunal species density (mean number per liter) by replicate, August 1979 (Cont).

SPECIES	REPLICATES												MEAN
	1	2	3	4	5	6	7	8	9	10	11	12	
EDWARDSIA SIPUNCULOIDES	1	2	0	0	0	0	0	0	0	0	1	0	0.33
MESACMAEA SP. A	0	0	0	0	0	0	0	0	0	1	2	0	0.25
PLATYHELMINTHES, UNID.	0	0	0	0	1	0	0	0	0	1	0	0	0.17
NEMERTEA, UNID.	0	0	0	0	0	0	0	0	0	0	1	1	0.17
CEREBRATULUS CALIFORNIENSIS	0	1	0	0	0	0	0	0	0	0	0	0	0.08
CARINOMA MUTABILIS	0	2	1	2	2	7	3	3	1	2	2	0	2.08
CARINOMELLA LACTEA	0	1	0	0	0	0	2	0	0	0	0	0	0.25
HARMOTHOE LUNULATA	0	0	1	0	0	0	2	0	0	0	0	0	0.25
STHENELEIS VERRUCULOSA	0	0	0	1	0	0	0	0	0	0	0	0	0.08
EUSIGALION SPINOSUM	1	1	0	0	1	0	0	0	0	0	0	0	0.25
CYPTIS BREVIPALPA	0	0	1	0	0	0	0	0	0	0	0	0	0.08
NEPHTYS CAECOIDES	0	0	0	1	0	0	0	0	0	0	0	0	0.08
NEPHTYS CORNUTA FRANCISCANA	0	0	0	0	1	0	0	0	0	0	0	0	0.08
GLYCERA CONVOLUTA	0	0	0	0	0	0	0	0	0	0	1	0	0.08
GLYCERA SP.	1	0	0	0	0	0	0	0	0	0	0	0	0.08
GLYCERA OXYCEPHALA	0	0	0	0	0	0	1	0	0	0	0	0	0.08
GLYCIIDE ARMIGERA	0	0	0	0	0	0	0	1	1	1	2	0	0.42
GONIADA LITTOREA	6	3	2	3	2	0	1	1	0	1	0	1	1.67
GONIADA SP.	0	0	0	0	0	0	0	1	1	1	0	0	0.25
DRUPHIDAE, UNID.	0	0	0	0	0	0	0	1	0	0	0	0	0.08
LUMBRINERIS LATREILLI	0	0	0	0	0	0	0	0	0	1	0	0	0.08
LUMBRINERIS TETRAURA	0	1	2	0	2	0	0	1	0	0	1	1	0.67
LUMBRINERIS SP.	2	1	4	3	3	1	0	1	2	0	2	0	1.58
SCOLOPLOS ARMIGER	0	0	0	0	0	1	0	0	2	0	0	0	0.25
ACESTA CATHERINAE	8	10	12	10	8	9	10	6	14	12	7	13	9.92
ACESTA MORIKOSHII	1	0	0	0	0	0	0	0	0	0	0	0	0.17
SPIONIDAE, UNID.	0	0	0	0	1	0	0	0	0	0	0	0	0.08
PRIONOSPION CIRRIFERA	0	0	1	2	0	0	0	0	1	0	0	0	0.33
PARAPRIONOSPION PINNATA	0	0	1	0	0	0	0	1	0	0	1	1	0.33
APRIONOSPION PYGMAFUS	0	0	0	0	0	1	0	2	1	1	0	0	0.42
SPIOPHANES BOMBYX	0	0	0	0	0	0	0	0	0	0	1	0	0.08
SPIOPHANES MISSIONENSIS	1	0	0	1	1	1	0	1	0	0	0	0	0.42
MAGELONA SACCOLATA	0	2	1	0	0	0	1	0	0	2	0	0	0.50
SPIOCHAETOPTERUS COSTARUM	0	0	0	0	0	0	0	1	0	0	0	0	0.08
CHAETOZONE SFTOSA	0	0	1	0	0	1	0	2	0	1	1	0	0.50
MEDIOMASTUS AMBISETA	5	0	1	0	4	2	3	1	5	0	3	2	2.17
MEDIOMASTUS ACUTUS	0	0	0	2	0	2	0	2	1	0	0	1	0.67
MEDIOMASTUS CALIFORNIENSIS	0	0	1	0	0	0	0	0	0	3	0	0	0.33
AMASTIGES ACUTUS	29	1	8	1	14	2	2	2	72	22	11	2	13.83
MALDANIDAE, UNID.	0	0	0	0	0	0	0	0	0	0	1	0	0.08
ASYCHIS DISPARIDENTATA	1	0	0	0	0	0	0	0	0	1	0	0	0.17
CRANIA COLLARIS	0	0	0	0	0	0	0	0	0	0	1	1	0.17
AMAEANA OCCIDENTALIS	0	0	1	1	0	0	0	0	2	1	0	0	0.42
PISTA FASCIATA	1	0	0	0	1	0	0	0	0	0	0	0	0.17
PISTA SP.	0	0	0	0	0	0	0	1	0	0	0	0	0.08
POLYCIRRUS SP.	0	0	0	0	0	0	1	0	0	0	0	0	0.08
CHONE SP.	0	1	0	0	0	0	0	0	0	0	0	0	0.08
PYCNOGONIDA, UNID.	1	0	1	0	1	0	0	0	0	0	0	0	0.25
CYLINDROLEBERIDIDAE, UNID.	0	0	0	0	0	0	0	0	1	0	0	0	0.08
EUPHILOMEDES LONGISETA	0	0	0	0	0	0	0	0	0	0	1	0	0.08
EUPHILOMEDES CARCHARODONTA	0	0	0	2	0	0	0	0	0	0	2	0	0.33
ARCHICOLURUS OCCIDENTALIS	0	2	0	0	3	1	0	1	0	2	0	0	0.75
DIASTYLOPSIS TENUIS	8	2	1	0	2	2	0	1	2	0	1	0	1.58
HEMILAMPROPS CALIFORNICA	0	0	0	0	0	0	0	0	0	0	0	1	0.08
CAMPYLASPIS SP. C	0	0	0	1	0	0	0	0	0	0	0	0	0.08



Table III-4. Subtidal infaunal species density (mean number per liter) by replicate, August 1979 (Cont).

STATION A2 (CONT). 30 August 1979

SPECIES	REPLICATES												MEAN
	1	2	3	4	5	6	7	8	9	10	11	12	
OXYUROSTYLIS PACIFICA	0	0	0	0	0	0	0	0	0	1	0	0	0.08
BATHYCOPEA GRANULATUS	0	0	0	1	2	0	1	0	0	0	0	1	0.42
EDOTEA SUBLITTORALIS	0	1	0	0	3	0	0	0	0	1	2	0	0.58
MUNNA URIQUITA	0	0	0	0	0	0	0	0	1	0	0	0	0.08
ANPELISCA COMPRESSA	0	1	0	0	0	1	0	0	0	0	1	0	0.25
ANGISSA HAMATIPES	0	0	0	0	0	0	0	0	0	1	0	0	0.08
ATYLLUS TRIDENS	1	0	0	0	0	0	0	0	0	0	0	0	0.08
MFGALURODOPUS LONGIMERUS	0	0	0	0	0	0	0	0	1	0	2	1	0.33
PHOTIS SP.	0	0	0	0	0	0	0	1	0	0	1	0	0.17
PHOTIS CALIFORNICA	0	0	0	0	1	0	0	2	2	1	0	0	0.50
JASSA FALCATA	4	8	5	6	3	8	4	1	2	1	11	0	4.42
SYNHELIDIUM SP.	0	0	0	0	0	0	0	0	1	0	1	0	0.17
RHEPOXYNIUS BICUSPIDATUS	0	0	0	0	0	0	1	0	0	0	0	0	0.08
RHEPOXYNIUS EPISTOMUS	1	0	0	1	0	0	2	0	0	2	0	0	0.50
TIRON TROPAKIS	0	0	0	0	0	0	0	0	0	0	1	0	0.08
CGYRIDES SP. A	0	0	1	0	2	0	2	1	1	1	3	0	0.92
CALLIANASSA SP.	0	0	1	0	1	0	0	0	0	0	0	0	0.17
ALIA CARINATA	0	0	0	0	0	0	0	0	0	1	0	0	0.08
OLIVELLA BAETICA	0	1	0	0	0	1	1	1	1	0	3	2	0.83
OLIVELLA SP.	1	0	0	0	0	0	0	0	0	0	0	0	0.08
KURTZIFLLA PLUMBEA	0	0	0	0	0	0	0	0	0	0	0	1	0.08
YCLDIA SCISSURATA	0	0	0	0	0	1	1	0	0	0	0	3	0.42
NEAEROMYA COMPRESSA	0	0	0	0	0	0	0	0	0	1	0	0	0.08
COMPSOMYAX SUBDIAPHANA	0	0	0	0	1	0	0	0	0	0	0	0	0.08
CCOPERELLA SUBDIAPHANA	0	0	0	0	0	0	0	0	1	1	0	0	0.17
MACTRIDAE, UNID.	0	0	0	0	0	1	0	0	0	0	0	0	0.08
TELLIAA MODESTA	0	0	0	0	0	1	0	1	1	0	1	0	0.33
MACOMA ACOLASTA	0	0	0	1	0	0	0	0	0	0	0	0	0.08
MACOMA SP.	0	0	0	0	0	1	0	0	0	0	2	0	0.25
SILIGUA LUCIDA	0	0	1	0	1	2	4	1	0	1	1	0	0.92
CADULUS FUSIFORMIS	0	0	0	1	0	0	0	0	0	0	0	0	0.08
PHORONIS SP.	0	0	0	0	0	2	0	0	0	0	0	0	0.17
DIAMPHIODIA OCCIDENTALIS	0	0	0	0	0	0	0	0	0	0	0	1	0.08
OPHIOPHRAGMUS URTICA	1	1	0	0	0	0	0	0	0	0	0	0	0.17
DEFNDRASTER EXCENTRICUS	0	1	0	0	0	0	0	0	0	0	0	0	0.08
HEMICHORDATA, UNID.	0	0	1	1	0	1	0	0	0	0	0	0	0.25

Table III-4. Subtidal infaunal species density (mean number per liter) by replicate, August 1979 (Cont).

STATION A3 30 August 1979

SPECIES	REPLICATES												MEAN
	1	2	3	4	5	6	7	8	9	10	11	12	
ISOEDWARDSIA SP. A	0	0	1	0	0	0	0	0	0	0	0	0	0.08
MESACMAFA SP. A	0	0	0	0	1	0	0	0	0	0	0	0	0.08
PLATYHELMINTHES, UNID.	0	0	1	0	1	0	0	0	0	0	0	1	0.25
NEMERTEA, UNID.	2	1	0	1	0	2	0	0	0	1	0	2	0.75
CFREBRATULUS CALIFORNIENSIS	1	0	0	1	0	0	0	0	0	0	0	0	0.17
CARINOMA MUTABILIS	3	0	0	1	1	3	0	3	0	1	0	1	1.08
HARMOTHOE PRIOPS	0	0	0	0	0	0	0	1	0	0	0	0	0.08
EUSIGALION SPINOSUM	0	0	1	0	0	0	0	0	0	0	0	1	0.17
ANATIDES SP.	0	0	0	0	0	0	0	0	0	0	0	1	0.08
TYPOSYLLIS FASCIATA	0	0	0	0	0	1	0	0	0	0	0	0	0.08
TYPOSYLLIS SP.	0	0	0	0	0	0	0	1	0	0	0	0	0.08
NEPHTYS CAECOIDES	0	0	0	0	0	0	0	0	0	0	0	1	0.08
NEPHTYS CORNUTA FRANCISCANA	0	0	0	1	0	2	0	0	1	0	0	0	0.33
GLYCERA CONVOLUTA	1	0	0	0	0	0	0	0	0	0	0	0	0.08
GLYCINDE ARMIGERA	0	0	0	0	0	0	0	0	1	0	0	0	0.08
GCNIADA LITTUREA	4	4	0	4	1	2	0	1	1	2	3	2	2.00
NCTHRIA IRIDESCENS	0	1	0	0	0	0	0	0	0	0	1	0	0.17
LUMBRINERIS LATREILLI	0	0	0	0	0	1	0	0	0	0	0	0	0.08
LUMBRINERIS SP.	1	2	2	1	4	1	0	1	2	0	1	1	1.33
HAPLOSCOLOPLOS FLONGATUS	0	0	1	0	1	0	0	0	0	0	0	0	0.17
SCOLOPLOS ARMIGER	0	0	1	0	0	0	0	0	1	0	0	0	0.17
AEDICIRA PACIFICA	0	0	0	0	1	0	0	0	0	0	0	0	0.08
ACESTA CATHERINAF	3	2	1	10	4	8	0	7	12	1	0	4	4.33
LAONICE CIRRATA	0	0	0	1	0	0	0	0	0	0	0	0	0.08
PCLYDORA SP.	0	0	0	0	0	0	0	0	0	0	0	1	0.08
PRIONOSPIO CIRRIFERA	0	0	0	0	1	0	0	0	0	0	0	0	0.08
PARAPRIONOSPIO PINKATA	2	1	1	0	2	3	0	1	1	1	0	0	1.00
APOPRIONOSPIO PYGMAEUS	1	0	0	0	4	0	0	1	0	2	2	0	0.83
SPIOPHANES BOMBYX	1	1	0	0	0	1	0	2	2	1	0	0	0.67
SPIOPHANES MISSIONENSIS	1	0	0	0	0	0	0	0	0	0	0	1	0.17
SPIOPHANES SP.	0	0	0	0	0	1	0	0	0	0	0	0	0.08
MAGELONA PITELKAI	1	0	0	0	0	0	0	0	0	0	0	0	0.08
MAGELONA SACCOLATA	0	0	2	0	0	0	0	0	0	1	1	0	0.33
SPIOCHAETOPTERUS COSTARUM	1	0	2	0	0	0	0	0	0	0	0	0	0.25
CHAETIZONE SETOSA	0	1	0	2	2	2	0	1	1	0	0	3	1.00
MEDIOMASTUS AMRISETA	0	0	2	1	9	1	1	7	4	2	0	3	2.50
MEDIOMASTUS ACUTUS	0	0	1	1	2	4	1	4	5	8	0	1	2.25
MEDIOMASTUS CALIFORNIENSIS	0	0	2	0	0	1	0	0	0	1	0	1	0.42
MEDIOMASTUS SP.	1	0	0	0	0	1	0	0	2	0	0	0	0.33
ANOTOMASTUS GORDIODES	0	0	0	0	0	1	0	0	0	0	0	0	0.08
ASYCHIS DISPARIDENTATA	0	1	0	1	0	0	0	0	1	0	0	0	0.25
OKENIA COLLARIS	0	0	2	0	0	0	0	0	0	0	0	0	0.17
AMPHICTEIS SCAPHORRANCHIATA	0	1	0	0	0	0	0	0	0	0	1	0	0.17
AMEANA OCCIDENTALIS	0	0	1	2	0	2	0	0	2	2	0	0	0.75
PISTA FASCIATA	0	3	0	2	2	0	0	1	2	1	0	2	1.08
PCLYCIRRUS SP.	0	0	0	0	0	0	0	0	0	1	0	0	0.08
STREHLUSOMA CRASSIRRANCHIA	0	0	0	0	0	1	0	0	0	0	0	0	0.08
CHONE MCLLIS	0	0	1	0	0	0	0	0	0	0	0	0	0.08
EUCHONE INCOLON	0	0	0	0	1	0	0	0	0	0	0	0	0.08
ELPHILOMEDES CARCHARODONTA	0	2	2	0	0	0	1	1	0	4	1	1	1.00
CYCLOLEBERIS AMERICANA	0	0	0	0	0	0	0	0	0	0	1	0	0.08
MYSIDACEA, UNID.	0	0	0	0	0	0	0	0	1	0	0	0	0.08
CYCLASPIS NURILA	0	1	0	0	0	0	0	0	0	0	0	0	0.08
CYCLASPIS SP. B	0	0	0	0	0	0	1	1	0	0	0	0	0.17
ARCHICOLURUS OCCIDENTALIS	1	0	0	0	0	0	0	0	0	0	0	0	0.08

Table III-4. Subtidal infaunal species density (mean number per liter) by replicate, August 1979 (Cont).

STATION A3 (CONT). 30 August 1979

SPECIES	REPLICATES												MEAN
	1	2	3	4	5	6	7	8	9	10	11	12	
DIASTYLOPSIS TENUIS	5	1	4	1	8	3	3	3	2	6	3	2	3.42
HEMILAMPROPS CALIFORNICA	2	2	0	1	1	0	0	0	2	0	2	0	0.83
CLMELLA SP. A	0	0	0	0	0	0	0	0	0	0	0	1	0.08
GXYUROSTYLIS PACIFICA	1	1	0	0	0	0	0	2	1	0	1	0	0.50
FOOTEA SUBLITTORALIS	0	1	1	0	1	0	0	0	0	0	0	0	0.25
AMPELISCA CRISTATA	3	2	0	0	1	0	1	0	3	1	5	3	1.58
AMPELISCA SP.	0	0	0	0	0	0	0	0	0	0	1	0	0.08
AMPELISCA COMPRESSA	0	0	0	1	0	1	0	1	0	0	0	1	0.33
RUDILEMBIODES STENOPROPODUS	0	0	0	0	0	0	0	0	0	0	2	0	0.17
AMPHIFUTOPUS OCHLATUS	0	0	0	0	1	0	0	0	0	0	2	0	0.25
ARGISSA HAMATIPES	0	0	0	0	0	1	0	0	0	0	0	0	0.08
ERICTHONIUS BRASILIENSIS	0	0	0	0	0	0	0	0	0	0	1	0	0.08
MEGALUROPOUS LONGIMERUS	1	0	0	0	2	0	0	0	0	0	0	0	0.25
PHOTIS SP.	0	0	1	0	0	0	0	0	0	0	0	0	0.08
JASSA FALCATA	8	0	9	11	10	5	1	5	9	20	1	6	7.08
PACHYNUUS BARNARDI	0	0	0	0	1	0	0	0	0	0	0	0	0.08
HIPPOMEDON DENTICULATUS	0	0	0	1	0	0	0	0	0	0	0	0	0.08
SYNCHELIDIUM SP.	0	0	0	0	0	0	1	0	0	0	2	0	0.25
MONOCULODES HARTMANAE	0	0	1	1	0	0	0	0	0	0	0	0	0.17
PHOXOCEPHALIDAE, UNID.	0	0	0	0	0	0	0	0	1	0	0	0	0.08
RHEPOXYNIUS ABRONII	1	0	2	0	1	0	0	1	0	0	0	0	0.42
RHEPOXYNIUS RICUSPIDATUS	0	0	0	0	0	0	0	0	1	0	0	0	0.08
RHEPOXYNIUS EPISTOMUS	1	3	0	0	0	1	1	1	1	0	1	0	0.75
RHEPOXYNIUS LUCUBRANS	0	0	0	0	1	0	0	0	1	0	0	0	0.17
METHARPINIA FLORIDANA	0	0	1	0	0	0	0	0	0	0	0	0	0.08
TRITELLA LAEVIS	0	0	0	0	1	0	0	0	0	0	0	0	0.08
GGYRIDES SP. A	0	1	0	0	0	0	0	0	1	0	0	0	0.17
CALLIANASSA SP.	0	0	0	0	0	0	0	1	0	0	0	0	0.08
FAGURIDAE, UNID.	0	1	0	0	0	0	0	0	0	0	0	0	0.08
PINNIXA FRANCISCANA	0	0	0	1	0	0	0	0	0	0	0	0	0.08
RANDALLIA ORNATA	0	0	1	0	0	0	0	0	0	0	0	0	0.08
NEVERITA RECLUZIANA	0	0	0	0	0	0	0	0	0	0	1	0	0.08
KASSARIUS SP.	1	0	0	1	0	0	0	1	0	1	0	0	0.33
OLIVELLA BAETICA	0	0	0	1	1	0	2	2	1	0	0	0	0.58
KURTZIELLA PLUMBEA	0	0	0	0	0	0	0	0	0	0	1	0	0.08
SULCORETUSA XYSTRUM	0	0	1	0	1	1	0	0	0	0	0	0	0.25
AGLAJA DIOMEDEA	0	0	0	0	0	1	0	0	0	0	0	0	0.08
TURBONILLA SP. J	1	0	0	0	0	0	0	0	0	0	0	0	0.08
YCLDIA SCISSURATA	0	0	0	0	1	1	1	0	0	2	1	0	0.50
LUCINOMA ANNULATA	0	0	0	0	0	0	0	0	0	1	0	0	0.08
MYSELLA SP. F	1	0	0	0	0	0	0	0	0	0	0	0	0.08
TELLINA MODESTA	2	0	4	1	1	1	2	2	0	2	1	3	1.58
MACOMA ACOLASTA	1	0	0	0	0	0	0	2	0	0	0	0	0.25
MACOMA SP.	0	0	1	0	0	0	1	0	0	0	1	1	0.33
SILIOUA LUCIDA	0	1	2	0	0	1	1	0	0	0	0	0	0.42
CADULUS FUSIFORMIS	1	0	0	0	0	0	0	0	0	0	0	0	0.08
PHORONIDA, UNID.	0	0	0	0	0	0	0	0	2	0	0	0	0.17
GLOTTIDIA ALBIDA	1	0	0	0	0	0	0	0	0	0	0	0	0.08
OPHIOPHRAGMUS DIGITATA	0	0	0	0	0	1	0	0	0	0	0	0	0.08
HEMICHOORDATA, UNID.	0	0	1	1	0	0	0	0	0	0	0	0	0.17

Table III-4. Subtidal infaunal species density (mean number per liter)  
by replicate, August 1979 (Cont).

29 August 1979

STATION 81

SPECIES	REPLICATES					MEAN
	1	2	3	4	5	
PLATYHELMINTHES, UNID.	0	0	0	1	0	0.20
NEMERTEA, UNID.	0	0	0	1	2	0.60
CEREBRATULUS CALIFORNIENSIS	0	0	2	0	0	0.40
CARINOMA MUTABILIS	2	2	0	2	0	1.20
PARANEMERTES CALIFORNICA	0	0	1	0	0	0.20
NEPHTYS SP.	1	0	0	0	0	0.20
GLYCERA CONVOLUTA	0	0	0	1	0	0.20
GGNIADA LITTOREA	1	0	0	0	1	0.40
HAPLOSCOLOPLOS ELONGATUS	0	0	1	1	1	0.60
SCOLOPLOS ARMIGER	1	1	2	0	2	1.20
APOPRIONOSPID PYGMAEUS	15	16	13	28	19	18.20
SPIOPHANES BOMBYX	2	0	0	0	0	0.40
MAGELONA PITELKAI	0	1	1	0	0	0.40
SPIOCHAETOPTERUS COSTARUM	1	0	0	0	0	0.20
ACTINOMASTUS TENUIS	0	0	0	0	1	0.20
AMASTIGOS ACUTUS	14	10	11	19	27	16.20
OWENIA COLLARIS	0	0	1	0	0	0.20
RYCNOGONIDA, UNID.	2	0	0	0	0	0.40
NYMPHON HETERODENTICULATUM	0	0	2	0	0	0.40
EUPHILOMEDES LONGISETA	0	0	0	2	1	0.60
DIASTYLOPSIS TENUIS	2	1	1	0	0	0.80
LEPTOCUMA FORSMANI	1	2	3	1	0	1.40
ECOTEA SUBLITTORALIS	2	0	2	2	0	1.20
FCHAUSTORIUS WASHINGTONIANUS	0	0	0	2	0	0.40
JASSA FALCATA	0	4	5	3	0	2.40
SYNCHELIDIUM SP.	0	0	0	0	1	0.20
RHEPOXYNIUS RICUSPIDATUS	10	13	3	4	0	6.00
RHEPOXYNIUS EPISTOMUS	0	2	2	2	0	1.20
TIRON TROPAKIS	0	0	1	0	0	0.20
PAGURIDAE, UNID.	0	0	1	1	1	0.60
LEPIDOPA CALIFORNICA	0	0	0	0	1	0.20
CLIVELLA BAETICA	3	1	0	5	5	2.80
TELLINA MODESTA	3	3	8	4	6	4.80
SCLEIN ROSACEUS	3	0	0	0	0	0.60
PERIPLONA PLANIUSCULUM	0	0	0	0	1	0.20
ANGUINELLA PALMATA	0	0	1	0	0	0.20

Table III-4. Subtidal infaunal species density (mean number per liter) by replicate, August 1979. (Cont).

STATION 82 29 August 1979

SPECIES	REPLICATES												MEAN
	1	2	3	4	5	6	7	8	9	10	11	12	
PLATYHELMINTHES, UNID.	0	0	0	0	0	0	1	0	0	0	0	0	0.08
NEMERTEA, UNID.	0	0	0	2	0	0	1	2	0	2	1	0	0.67
CARINOMA MUTABILIS	2	2	0	1	0	2	0	2	1	1	1	0	1.00
CARINOMELLA LACTEA	0	0	0	0	0	0	0	0	0	0	2	0	0.17
STHENELEIS VERRUCULOSA	0	0	0	0	0	0	0	0	0	0	0	1	0.08
EUSIGALION SPINOSUM	0	0	2	0	0	0	0	1	0	0	0	0	0.25
AKAITIDES WILLIAMSII	0	0	0	0	0	1	0	0	0	0	0	0	0.08
GYPTIS BREVIPALPA	0	0	0	2	0	0	0	0	0	0	0	0	0.17
TYPOSYLLIS ACICULATA	0	0	0	0	0	0	0	0	0	1	0	0	0.08
TYPOSYLLIS PULCHRA	0	1	0	0	0	0	0	0	0	0	0	0	0.08
NEPHTYS CAECOIDES	0	0	0	0	1	0	0	0	1	1	0	1	0.33
NEPHTYS SP.	0	0	0	0	0	0	0	0	0	0	1	0	0.08
GLYCERA CONVOLUTA	0	0	0	1	0	0	0	0	0	0	0	0	0.08
GLYCERA SP.	0	0	0	0	1	1	0	2	1	0	0	0	0.42
GLYCINDE ARMIGERA	0	0	0	0	0	0	0	1	0	0	0	1	0.17
GONIADA LITTOREA	1	2	3	0	0	1	2	2	2	0	1	1	1.25
LUMBRINERIS LATREILLI	0	0	0	0	0	0	0	0	1	1	0	0	0.17
LUMBRINERIS TETRAURA	0	0	0	1	1	0	0	0	0	0	1	0	0.25
LUMBRINERIS SP.	0	1	0	0	0	0	0	0	0	0	0	0	0.08
LUMBRINERIS PLATYLOHATA	0	0	1	0	0	0	0	0	0	0	0	0	0.08
HAPLOSCOLOPUS ELONGATUS	1	0	0	0	0	0	0	0	0	0	0	0	0.08
SCOLOPUS ARMIGER	1	0	2	2	0	1	0	0	1	1	2	0	0.92
PARANONELLA PLATYBRANCHIA	1	0	0	0	0	0	1	1	0	0	0	0	0.25
ACESTA CATHERINAE	7	8	1	4	2	1	2	11	6	7	4	6	4.92
ACESTA MORIKOSHII	0	0	0	0	0	0	0	0	0	1	0	0	0.08
POLYDORA SP.	0	0	0	0	0	0	0	0	0	0	0	1	0.08
PRIONOSPID CIRRIFERA	2	0	0	9	1	0	3	1	0	2	0	1	1.58
PARAPRIONOSPID PINNATA	0	1	0	0	0	0	0	0	0	0	0	0	0.08
APOPRIONOSPID PYGMAEUS	1	0	0	1	1	1	4	1	2	0	1	2	1.17
SPIOPHANES BOMBAYX	0	0	0	0	0	0	1	1	1	1	0	1	0.42
SPIOPHANES MISSIONENSIS	0	0	0	0	0	0	0	0	0	0	0	1	0.08
MAGELONA SACCOLATA	0	0	0	0	1	0	1	0	2	2	0	0	0.50
SPIOCHAETOPTERUS COSTARUM	0	1	0	0	0	0	0	0	0	0	0	1	0.17
CIRRATULIDAE, UNID.	0	0	0	0	0	0	0	1	0	0	0	0	0.08
CHAETAZONE SETOSA	1	1	0	0	1	0	0	0	2	0	0	0	0.42
THARYX SP.	0	1	0	0	0	0	0	0	0	0	0	0	0.08
MEDIOMASTUS AMHISETA	2	4	0	0	1	4	0	1	3	1	0	0	1.33
MEDIOMASTUS ACUTUS	0	1	0	0	0	0	0	0	0	0	1	0	0.17
MEDIOMASTUS SP.	0	0	0	0	0	1	0	0	0	0	0	1	0.17
AMASTIGOS ACUTUS	24	48	13	7	2	7	27	13	17	11	44	36	20.75
OWENIA COLLARIS	1	0	0	0	0	0	0	0	0	0	0	0	0.08
PECTINARIA CALIFORNIENSIS	0	0	0	2	0	0	1	0	0	3	0	2	0.67
PISTA FASCIATA	0	0	0	0	0	0	1	0	0	0	0	0	0.08
CYLINDROLEBERIDIDAE, UNID.	1	0	0	0	1	0	0	0	3	0	0	0	0.42
EUPHILOMEDES LONGISETA	10	2	1	1	1	4	3	2	0	2	7	2	2.92
EUPHILOMEDES CARCHARODONTA	2	0	1	1	0	0	0	0	1	4	0	0	0.75
EUPHILOMEDES SP.	0	0	0	0	0	0	0	0	1	0	0	0	0.08
CYCLOLEBERIS AMERICANA	0	0	0	0	0	0	0	0	1	0	0	0	0.08
MYSIDACEA, UNID.	0	2	0	0	0	0	0	0	0	0	0	0	0.17
ARCHICOLORUS OCCIDENTALIS	0	0	0	0	0	1	0	0	0	0	0	0	0.08
DIASTYLOPSIS TENUIS	14	6	11	2	2	10	11	4	8	2	8	24	8.50
LAMPROPS QUADRIPICATA	0	0	0	0	0	0	0	0	1	0	0	0	0.08
OXYUROSTYLIS PACIFICA	0	0	0	0	0	0	0	0	1	0	0	0	0.08
ECOTEA SUBLITTORALIS	0	4	0	0	2	0	0	0	1	0	1	0	0.67
MUNNA URIGUITA	0	0	1	0	0	0	0	0	0	0	0	0	0.08

Table III-4. Subtidal infaunal species density (mean number per liter) by replicate, August 1979. (Cont.)

STATION B2 (CONT). 29 August 1979

SPECIES	REPLICATES												MEAN
	1	2	3	4	5	6	7	8	9	10	11	12	
AMPELISCA COMPRESSA	0	0	0	0	0	0	0	0	0	0	0	1	0.08
ARGISSA HAMATIPES	0	0	0	0	2	0	0	0	0	0	0	0	0.17
CERAPUS TURULARIS	0	0	1	0	0	1	0	0	0	0	0	0	0.17
MEGALUROPOUS LONGIMERUS	1	1	1	1	0	1	1	1	1	0	1	0	0.75
ECHAUSTORIUS WASHINGTONIANUS	0	0	0	0	0	1	0	0	0	0	0	0	0.08
PHOTIS SP.	0	0	0	0	2	1	1	0	1	0	0	0	0.42
PHOTIS CALIFORNICA	0	2	0	0	0	0	0	0	0	0	0	0	0.33
JASSA FALCATA	24	25	6	3	19	12	12	4	38	3	35	12	16.08
SYNCHELIDIUM SP.	0	0	0	0	0	0	1	0	0	0	0	0	0.08
MONOCULODES HARTMANAE	0	0	1	0	0	0	0	0	0	0	0	0	0.08
PHOXOCPHALIDAE, UNID.	0	1	0	0	0	2	3	0	0	0	0	1	0.58
RHEPOXYNIUS AHRONIUS	0	0	1	0	0	0	0	0	1	0	0	0	0.17
RHEPOXYNIUS RICUSPIDATUS	1	1	0	0	0	0	1	2	2	0	0	2	0.75
RHEPOXYNIUS FISTOMUS	2	0	2	0	3	1	3	2	0	0	0	2	1.25
RHEPOXYNIUS LUCUBRANS	1	0	0	0	0	0	0	0	0	0	1	0	0.17
STENOTHOF ESTACOLA	1	1	0	0	0	0	0	1	1	0	0	0	0.33
TIRON TROPAKIS	2	1	2	1	0	0	0	1	3	0	1	0	0.92
OGYRIDES SP.A	1	0	0	0	0	0	0	1	0	0	1	0	0.33
CALLIANASSA SP.	0	0	0	0	0	1	0	0	0	1	0	0	0.17
PAGURIDAE, UNID.	0	0	0	0	2	3	1	0	0	0	0	1	0.58
ISOCHELES PILOSUS	0	0	0	0	0	0	0	0	0	0	2	2	0.33
CANCER ANTENNARIUS	0	0	0	0	0	0	0	0	0	0	0	1	0.08
NEVERITA RECLUZIANA	0	0	0	0	0	0	1	0	0	0	0	0	0.08
NASSARIUS SP.	0	1	1	0	0	0	1	0	0	0	0	0	0.25
CLIVELLA BAETICA	0	0	0	0	0	0	1	0	0	2	0	0	0.25
KURTZIELLA PLUMBEA	0	1	0	0	0	0	0	0	0	0	0	0	0.08
RICTAXIS PUNCTOCAELATUS	0	0	0	0	0	0	0	1	0	0	0	0	0.08
YCLOIA SCISSURATA	1	1	0	0	0	2	1	1	2	2	1	2	1.08
COOPERELLA SURDIAPHANA	0	0	0	0	0	0	0	0	1	0	0	0	0.08
NACTRIDAE, UNID.	0	0	0	0	0	0	2	0	1	0	0	0	0.25
TELLINA MODESTA	2	1	1	2	1	4	2	3	3	3	2	5	2.42
SOLEN RUSACEUS	0	0	0	1	0	0	0	0	0	0	0	1	0.17
SILIOUA LUCIDA	0	1	0	0	0	0	0	0	0	0	1	0	0.17
PERIPLOMA DISCUS	0	0	0	0	1	0	0	0	0	0	0	0	0.08
PERIPLOMA PLANIUSCULUM	0	0	0	0	0	0	0	1	0	0	0	2	0.25
PHORONIS SP.	0	0	0	0	0	0	0	1	0	0	0	1	0.17
OPHIOPHRAGMUS URTICA	0	0	0	0	0	0	0	1	0	0	0	0	0.08
HMICHORDATA, UNID.	0	0	0	0	1	0	1	0	0	0	0	0	0.17

Table III-4. Subtidal infaunal species density (mean number per liter) by replicate, August 1979 (Cont).

STATION 83 29 August 1979

SPECIES	REPLICATES												MEAN
	1	2	3	4	5	6	7	8	9	10	11	12	
ZAOLUTUS ACTIUS	0	0	0	1	0	0	0	0	0	0	0	0	0.08
EDWARDSTA SIPUNCULOIDES	2	3	0	1	0	0	0	0	1	0	0	0	0.58
PLATYHELMINTHES, UNID.	0	0	0	0	1	0	1	1	1	2	2	0	0.67
NEMERTEA, UNID.	1	2	1	2	2	2	1	3	1	2	2	4	1.92
CARINOMA MUTABILIS	0	0	1	0	0	1	1	2	4	1	0	0	0.83
CARINOMELLA LACTEA	0	0	1	0	0	0	2	0	0	0	0	0	0.25
NEMATODA, UNID.	0	0	1	0	1	1	0	2	0	0	0	1	0.50
HARMOHOE LUNULATA	1	0	0	0	1	0	0	0	0	0	1	0	0.25
HARMOHOE PRIOPS	0	0	0	0	0	0	0	0	0	0	1	0	0.08
STHENEALIS VERRUCULOSA	0	0	0	1	0	0	0	0	0	0	0	0	0.08
FUSIGALION SPINOSUM	0	0	0	0	0	1	1	0	0	0	0	0	0.17
ETEONE DILATAE	0	0	0	0	1	0	0	0	0	0	0	0	0.08
ETEONE LIGHTI	0	0	0	0	0	0	0	0	1	0	0	0	0.08
GYPTIS BREVIPALPA	1	0	0	0	0	0	0	0	0	0	0	0	0.08
EXOgone LOUREI	0	0	0	0	0	0	0	0	0	0	1	0	0.08
TYPOSYLLIS ACICULATA	0	0	0	0	0	0	2	0	0	0	0	0	0.17
NEREIS SP.	0	0	0	0	0	0	12	0	0	0	0	0	1.00
NEPHTYS CAECOIDES	0	0	0	0	0	0	0	1	0	1	0	0	0.17
NEPHTYS CALIFORNIENSIS	0	0	0	0	0	0	0	1	0	0	0	0	0.08
NEPHTYS CORNUTA FRANCISCANA	0	3	1	1	1	0	1	0	0	1	2	0	0.83
GLYCIDAE ARMIGERA	0	0	0	0	0	0	1	0	0	1	0	0	0.17
GONIADA LITTOREA	0	2	2	0	1	1	2	0	2	1	2	2	1.25
GLYCIDAE SP. A	0	0	0	0	0	0	0	1	0	0	0	0	0.08
LUMBRINERIS TETRAURA	1	2	1	1	1	0	0	0	0	1	1	0	0.75
LUMBRINERIS SP.	0	0	1	3	0	2	0	2	1	2	1	1	1.08
LUMBRINERIS JAPONICA	0	0	0	0	0	0	0	0	0	1	0	0	0.08
HAPLOSCLOPLOS ELONGATUS	0	0	1	0	0	0	0	0	0	1	0	0	0.17
SCOLOPLOS ARMIGER	0	0	0	0	0	0	1	0	0	0	0	0	0.08
TAUBFERIA OCULATA	0	0	0	1	0	0	0	0	0	0	0	0	0.08
ACESTA CATHERINAE	0	2	3	1	1	4	2	3	0	0	5	1	1.83
SPIONIDAE, UNID.	0	1	0	0	0	0	0	0	0	0	0	0	0.08
PRIONOSPION CIRRIFFERA	3	5	2	1	2	4	2	3	1	0	0	0	1.92
PARAPRIONOSPION PINNATA	1	2	0	0	1	2	0	0	0	0	0	0	0.50
APOPRIONOSPION PYGMAEUS	0	0	0	0	0	1	1	1	1	0	2	1	0.58
SPIOPHANES MISSIONENSIS	0	0	0	0	0	1	0	1	0	0	0	0	0.17
PRIONOSPION SP.	0	1	0	0	0	0	0	0	0	0	0	0	0.08
MAGFLOMA SACCOLATA	0	0	0	0	0	1	0	0	0	0	0	0	0.08
SPIOCHAETOPTERUS COSTARUM	0	0	0	1	1	0	0	0	1	0	0	1	0.33
CHAETOPUS SETOSA	3	2	2	5	2	2	1	3	0	4	1	0	2.08
THARYX SP.	0	0	1	1	0	1	0	1	2	0	0	0	0.50
CESSURA CANDIDA	0	0	0	0	0	0	0	0	0	0	0	3	0.25
MEIDIOMASTUS AMBISETA	2	6	6	6	6	6	6	7	5	3	16	7	6.33
MEIDIOMASTUS ACUTUS	0	0	0	0	0	2	0	0	1	1	0	2	0.50
MEIDIOMASTUS CALIFORNIENSIS	0	2	2	1	0	0	0	0	1	1	0	0	0.58
ANOTOMASTUS GORDIIFORMIS	1	0	3	1	0	0	0	1	0	0	0	0	0.50
AMASTIGOS ACUTUS	1	0	0	0	0	0	0	0	0	0	0	0	0.08
MALDANIDAE, UNID.	1	1	0	0	0	0	0	0	0	0	1	0	0.25
ASYCHIS DISPARIDENTATA	0	0	0	0	0	0	1	0	1	1	0	0	0.25
AXIOHELLA RURROCIINCTA	0	0	0	0	0	0	1	0	0	0	0	0	0.08
OVEMIA COLLARIS	0	1	0	1	0	1	1	0	0	0	1	0	0.42
AMPHICTIFIS SCAPHORRANCHIATA	0	0	1	0	0	0	0	0	0	1	0	0	0.25
TEREBELLIDAE, UNID.	0	0	0	0	0	0	0	0	0	0	1	0	0.08
AMEANA OCCIDENTALIS	1	0	0	1	1	0	0	0	1	0	0	1	0.42
LOIMIA MEDUSA	2	0	0	0	0	0	0	0	0	0	0	0	0.17
PJSTIA FASCIATA	0	0	6	0	1	0	3	3	0	0	2	0	1.25

Table III-4. Subtidal infaunal species density (mean number per liter) by replicate, August 1979 (Cont).

STATION B3 (CONT). 29 August 1979

SPECIES	REPLICATES												MEAN
	1	2	3	4	5	6	7	8	9	10	11	12	
POLYCIIRRUS SP.	0	0	0	2	0	1	0	1	0	0	0	0	0.33
STREBLOSOMA CRASSIBRANCHIA	0	0	1	1	1	1	0	0	0	0	0	0	0.33
SABELLIDAE, UNID.	1	0	0	0	0	0	0	0	0	0	0	0	0.08
EUCHONE INCOLOR	0	1	0	0	0	1	0	0	0	0	0	1	0.25
CYLINDROLEBERIDIDAE, UNID.	0	0	0	0	0	0	0	0	0	0	1	0	0.08
EUPHILOMEDES CARCHARODONTA	1	0	1	1	2	0	4	0	2	0	1	1	1.08
FUPHILOMEDES SP.	0	0	0	0	0	0	0	0	1	0	0	0	0.08
RUTIDERMA ROSTRATA	0	0	0	1	0	1	0	0	0	0	0	0	0.17
ASTEROPELLA SP. S	0	0	1	0	0	0	0	0	0	0	0	0	0.08
MYSIDACEA, UNID.	0	1	0	1	0	0	0	0	0	0	0	0	0.17
CYCLASPIS NOBILA	0	0	0	1	0	0	0	0	0	0	1	0	0.17
CYCLASPIS SP. B	0	0	0	0	1	0	0	0	0	0	0	0	0.08
DIASTYLOPSIS TENJIS	1	1	0	0	0	0	0	1	0	0	2	1	0.50
HEMILAMPROPS CALIFORNICA	1	0	1	1	0	0	1	1	0	0	1	0	0.50
CAMPYLASPIS SP. C	0	0	0	1	0	0	0	0	0	0	0	0	0.08
CUMELLA SP.	1	2	0	0	0	0	0	0	0	0	0	0	0.25
CUMELLA SP. A	0	0	0	1	0	0	0	0	0	0	1	0	0.17
OXYUROSTYLIS PACIFICA	1	0	0	0	0	0	0	0	0	1	0	1	0.25
AMPELISCA CRISTATA	1	1	4	1	2	0	0	0	2	3	2	3	1.58
AMPELISCA COMPRESSA	0	0	0	1	0	0	0	1	0	0	0	0	0.17
ACUMINODEUTOPIUS HETERUROPIUS	1	0	0	0	1	0	0	0	0	0	1	1	0.33
RHDILEMROIDES STENOPROPODUS	0	0	1	0	0	0	0	0	0	0	0	0	0.08
AMPHIDEUTOPIUS OCULATUS	0	0	0	0	3	0	0	0	0	0	0	0	0.25
ARGISSA HAMATIPES	0	0	0	0	1	1	0	0	0	0	0	0	0.17
MEGALUROPIUS LONGIMERIUS	1	1	0	0	0	0	0	0	0	0	0	0	0.17
JASSA FALCATA	1	1	0	0	0	2	2	0	1	1	2	1	0.92
LISTRIELLA GOLFFA	0	1	0	0	0	2	0	0	0	0	0	0	0.25
PACHYNUS BARNARDI	0	0	0	0	0	0	0	0	1	0	0	0	0.08
MELPHISANA BOLA	0	1	1	0	0	0	0	0	0	0	0	0	0.17
SYNCHELIDIUM SP.	0	0	1	1	2	0	0	1	0	0	0	0	0.42
PHOXOCEPHALIDAE, UNID.	0	0	0	0	1	0	1	0	2	0	0	0	0.33
RHEPOXYNIUS ABRONIOUS	0	0	0	0	0	0	0	1	0	0	0	0	0.08
RHEPOXYNIUS EPISTOMIUS	0	0	1	0	1	0	1	1	0	0	0	1	0.42
PARAPHOXUS VARIATUS	0	0	0	0	0	0	0	0	1	0	3	0	0.33
PODOCFRUS SP.	0	0	0	0	1	0	0	0	0	0	0	0	0.08
GAMMARIDEA, UNID.	0	0	0	0	0	0	0	0	1	0	0	0	0.08
CAPRELLA SP.	0	0	0	0	0	0	0	0	0	0	1	0	0.08
OGYRIDES SP. A	0	0	0	0	1	0	0	0	0	0	1	0	0.17
CALLIANASSA SP.	0	1	0	0	0	1	0	0	0	0	1	0	0.25
PAGURIDAE, UNID.	0	0	0	1	0	0	0	0	0	0	0	0	0.08
PINNIXA FRANCISCANA	1	1	0	0	0	0	0	0	0	1	0	0	0.25
PINNIXA SP.	0	0	0	0	0	1	0	2	1	0	2	1	0.58
DFCAPODA, MEGALOPS, UNID.	0	0	1	0	0	0	0	0	0	0	0	0	0.08
NEVERITA RECLUZIANA	1	1	0	0	0	0	0	0	0	0	1	0	0.25
ASSARIUS SP.	0	1	0	1	0	1	0	0	1	0	0	0	0.33
CLIVELLA BAETICA	0	0	0	2	0	0	0	0	0	2	0	2	0.50
CLIVELLA SP.	2	0	0	0	1	0	1	0	0	0	0	0	0.33
SILICORETUSA XYSTRUM	1	1	1	0	0	0	1	0	2	1	0	1	0.67
ACTEOCINA HARPA	0	0	0	0	0	0	0	0	0	0	0	1	0.08
AGLAJA DIOMEDEA	1	0	0	1	0	0	1	0	0	0	0	0	0.25
TURRONILLA SP. F	0	0	0	0	0	0	0	0	0	0	0	1	0.08
TURRONILLA SP. J	0	1	1	0	1	0	1	0	0	0	0	1	0.42
YOLDIA SCISSURATA	0	1	0	0	2	1	0	0	1	0	0	1	0.50
MEDIOLUS NEGLECTUS	0	0	0	0	0	0	0	0	1	0	0	0	0.08
MYTILIDAE, UNID.	0	0	0	0	1	1	0	0	0	0	0	0	0.17
LUCINA NUTTALLI	0	1	0	0	0	1	0	0	0	0	0	0	0.17
MYSELLA PEDROANA	0	0	2	0	0	0	0	0	0	0	0	0	0.17
MYSELLA SP. F	0	0	0	0	1	0	0	0	0	0	0	0	0.08
NEAEROMYA COMPRESSA	0	0	0	0	0	0	0	0	0	0	0	1	0.08
RHAMPHIDONTA RETIFERA	0	0	0	0	0	0	1	0	0	0	0	0	0.08
CHIONE SP.	0	0	0	0	0	0	0	1	0	0	0	0	0.08
COOPERELLA SUBDIAPHANA	0	0	0	0	0	0	0	1	0	0	0	0	0.08
TELLINA MODESTA	9	5	3	1	4	2	3	1	0	5	2	4	3.25
MACOMA ACOLASTA	0	0	0	0	0	0	2	0	0	0	0	0	0.17
MACOMA SP.	2	0	1	1	0	0	0	1	3	1	3	1	1.08
SILIGUA LUCIDA	0	0	0	0	0	1	0	0	0	0	0	1	0.17
CADULUS FUSIFORMIS	0	1	0	0	0	1	1	1	0	0	0	0	0.33
GLOTTIDIA ALBIDA	1	0	0	1	0	0	0	0	0	1	1	0	0.33
HEMICHORDATA, UNID.	0	1	1	2	0	3	0	3	1	1	2	1	1.25



Table III-4. Subtidal infaunal species density (mean number per liter) by replicate, August 1979 (Cont).

29 August 1979

STATION C1

SPECIES	REPLICATES					MEAN
	1	2	3	4	5	
PLATYHELMINTHES, UNID.	1	1	0	0	0	0.40
NEMERTEA, UNID.	0	1	0	0	2	0.60
CERFRATULUS CALIFORNIENSIS	0	0	0	1	0	0.20
CARINOMA MUTABILIS	0	0	3	0	1	0.80
FUSIGALION SPINOSUM	0	1	0	0	0	0.20
NEPHTYS CAECOIDES	0	0	1	0	0	0.20
GLYCERA CONVOLUTA	1	0	0	0	0	0.20
GLYCIIDE ARMIGERA	1	0	0	0	0	0.20
GONIADA LITTOREA	0	2	0	0	0	0.40
LUMBRINERIS SP.	0	0	0	0	1	0.20
SCOLOPLOS ARMIGER	0	3	0	1	0	0.80
PARADNELLA PLATYRANCHIA	0	0	2	2	1	1.00
AEOICIRA PACIFICA	1	0	0	1	0	0.40
ACESTA CATHERINAE	1	0	4	1	0	1.20
SPIONIDAE, UNID.	0	0	0	1	0	0.20
PRIONOSPION CIRRIFERA	2	1	0	0	0	0.60
APOPRIONOSPION PYGMAEUS	26	28	11	25	13	20.60
SPIOPHANES ROMBYX	2	0	0	1	0	0.60
MAGELONA PATELKA	0	0	1	0	0	0.20
SPIOCHAETOPTERUS COSTARUM	0	1	0	0	0	0.20
AMASTIGOS ACUTUS	2	5	21	4	9	8.20
OMENIA COLLARIS	1	0	0	0	2	0.60
PYCNOGONIDA, UNID.	1	0	0	0	0	0.20
CYLINDROCLEBERIIDAE, UNID.	0	1	0	0	0	0.20
MYSIDACEA, UNID.	0	0	1	0	0	0.20
DIASTYLOPSIS TENUIS	3	2	0	0	9	2.80
LEPTOCUMA FORSMANI	0	1	0	0	3	0.80
ECHAUSTORIUS WASHINGTONIANUS	0	0	0	0	4	0.80
PHOTIS CALIFORNICA	0	0	1	0	0	0.20
JASSA FALCATA	3	3	1	0	3	2.00
SYNCHELIDIUM SP.	1	0	0	0	0	0.20
RHEPOXYNIUS BICUSPIDATUS	2	5	2	0	2	2.20
RHEPOXYNIUS EPISTOMUS	1	0	2	0	0	0.60
STENOTHOIDEAE, UNID.	1	0	0	0	0	0.20
CGYRIDES SP. A	1	0	0	0	0	0.20
PAGURIDAE, UNID.	0	0	0	0	1	0.20
LEPIDOPA CALIFORNICA	0	0	1	0	0	0.20
OLIVELLA BAETICA	0	0	0	0	1	0.20
TELLINA MODESTA	0	1	0	0	1	0.40
MACOMA SP.	0	0	0	1	0	0.20
PERILOMA PLANIUSCULUM	1	1	0	0	0	0.40

Table III-4. Subtidal infaunal species density (mean number per liter) by replicate, August 1979 (Cont).

STATION C2 29 August 1979

SPECIES	REPLICATES												MEAN
	1	2	3	4	5	6	7	8	9	10	11	12	
PLATYHELMINTHES, UNID.	0	0	0	0	0	0	0	0	2	0	0	0	0.17
NEMERTEA, UNID.	1	1	1	0	0	2	0	1	1	0	0	1	0.67
CARINOMA MUTABILIS	3	3	1	1	3	1	1	0	0	3	0	0	1.33
CARINOMELLA LACTEA	0	1	0	1	0	0	0	0	0	0	0	0	0.17
PARANEMERTES SP.	0	0	0	0	1	0	0	0	0	2	0	0	0.25
HARMOTHOE LUNULATA	0	0	0	0	0	0	0	0	0	0	0	1	0.08
STHENELAIS VERRUCULOSA	0	0	0	0	0	0	0	0	1	0	0	0	0.08
FUSIGALION SPINOSUM	0	0	0	0	0	1	0	1	0	0	0	0	0.17
GYPTIS BREVIPALPA	0	0	1	0	0	0	0	0	0	0	0	0	0.08
TYPOSYLLIS ACICULATA	0	0	0	0	0	0	0	1	0	0	0	0	0.08
TYPOSYLLIS SP.	0	0	0	0	0	1	0	0	0	0	0	0	0.08
NEPHTYS CAECOTIDES	0	0	0	2	0	0	0	0	0	0	0	0	0.17
NEPHTYS SP.	0	1	0	0	0	0	0	0	0	0	0	0	0.08
GLYCERA CONVOLUTA	0	0	1	0	0	1	0	0	0	0	0	0	0.17
GLYCINA ARMIGERA	0	0	0	0	0	0	0	0	0	1	0	0	0.08
GONIADA BRUNNEA	0	0	0	0	0	0	0	1	0	0	0	0	0.08
GONIADA LITTorea	2	2	0	2	1	1	2	1	2	1	1	1	1.33
GONIADA SP.	0	0	0	0	0	1	0	1	0	0	0	0	0.17
LUMBRINERIS LATREILLI	0	0	0	0	0	0	0	0	0	0	0	1	0.08
LUMBRINERIS TETRAURA	0	0	0	0	0	1	0	2	0	2	0	3	0.67
LUMBRINERIS SP.	1	0	0	1	0	0	0	0	0	1	0	0	0.25
AFARELLIDAE, UNID.	0	0	0	0	0	0	0	0	0	0	0	1	0.08
PAPLOSCOLOPLOS ELONGATUS	0	0	0	0	0	0	0	1	1	0	0	0	0.17
SCOLOPLOS ARMIGER	0	0	1	0	2	0	0	0	1	0	2	0	0.50
MAINFRIIS UNCINATA	0	0	0	0	0	0	0	0	0	1	0	0	0.08
ACESTA CATHERINAE	2	3	1	2	1	3	7	3	2	4	3	6	3.08
FRIONOSPIO CIRRIFERA	8	0	5	6	0	1	0	1	0	0	0	3	2.00
FRIONOSPIO MALMGRENI	0	0	0	0	0	0	0	0	0	0	0	1	0.08
APOFRIONOSPIO PYGMAEUS	0	4	5	3	3	0	0	0	0	0	1	1	1.42
SPIOPHANES HOMRYX	0	0	2	0	2	1	0	0	0	1	0	2	0.67
MAGELONA SACCOLATA	0	0	1	0	0	1	0	0	1	0	0	0	0.25
MAGELONA SP.	0	0	0	1	0	0	0	0	0	0	0	0	0.08
SPIOCHAETOPTERUS COSTARUM	0	0	0	0	0	0	0	0	1	0	1	0	0.17
CHAETAZONE SETOSA	1	1	0	0	3	0	0	1	0	0	0	1	0.58
MEDIOMASTUS AMHISETA	1	1	0	0	0	0	0	0	0	0	0	0	0.17
MEDIOMASTUS ACUTUS	5	0	1	0	0	0	1	1	1	0	0	1	0.83
MEDIOMASTUS CALIFORNIENSIS	0	2	0	3	1	1	2	0	0	0	6	5	1.67
MEDIOMASTUS SP.	0	0	0	0	1	0	0	1	0	1	0	0	0.25
AMASTIGOS ACUTUS	9	21	18	21	25	50	10	43	4	10	3	9	18.58
ASYCHIS DISPARIDENTATA	0	0	0	0	0	1	0	0	0	0	0	0	0.08
SABELLARIA NANELLA	1	0	0	0	0	0	0	0	0	0	0	0	0.08
PECTINARIA CALIFORNIENSIS	2	1	2	1	1	0	0	0	0	1	0	1	0.75
AMPHARETE LABROPS	0	0	0	0	0	0	0	0	0	0	0	5	0.42
AMAEANA OCCIDENTALIS	1	0	0	1	0	1	2	0	2	1	0	2	0.83
PISTA FASCIATA	1	0	0	0	0	0	0	0	0	0	0	1	0.17
PYCNOGONIDA, UNID.	1	0	0	0	0	0	0	0	0	1	1	2	0.42
CYLINDROLEBERIDIDAE, UNID.	0	2	1	2	0	0	0	1	0	0	1	0	0.58
EUPHILOMEDES LONGISETA	3	1	0	1	1	0	3	0	8	0	0	0	1.42
EUPHILOMEDES CARCHARODONTA	0	0	1	0	0	2	0	0	0	0	1	1	0.42
CYCLOLEBERIS AMERICANA	0	0	0	0	0	0	0	0	0	0	0	2	0.17
MYSIDACEA, UNID.	0	0	0	1	0	0	0	0	0	0	0	0	0.08
CYCLASPIS NUBILA	0	0	0	0	1	0	0	0	0	0	0	0	0.08
DIASTYLOPSIS TENUIS	4	9	3	7	3	11	4	0	9	1	5	8	5.33
CAMPYLASPIS SP. C	0	0	0	0	0	1	0	0	1	0	0	0	0.17
BATHYCOPEA GRANULATUS	0	0	0	0	0	0	0	0	0	0	1	1	0.17

Table III-4. Subtidal infaunal species density (mean number per liter) by replicate, August 1979 (Cont).

STATION C2 (CONT). 29 August 1979

SPECIES	REPLICATES												MEAN
	1	2	3	4	5	6	7	8	9	10	11	12	
EDDIEA SUHLITTORALIS	0	1	2	2	1	1	4	2	3	1	4	0	1.75
AMPELISCA COMPRESSA	0	0	1	0	0	1	0	0	0	0	0	0	0.17
ARGISSA HAMATIPES	1	0	0	0	0	0	0	0	0	0	0	0	0.08
CGROPHIUM SP.	0	0	0	0	0	0	0	0	0	0	0	0	0.08
CGROPHIUM BACONI	1	0	1	0	0	0	0	1	1	1	0	0	0.42
MEGALUROPIUS LONGIMERUS	0	1	0	0	0	0	0	0	0	0	0	0	0.08
ECHAUSTORIUS WASHINGTONIANUS	0	0	0	0	0	0	0	0	1	0	0	0	0.08
PHOTIS SP.	0	0	0	0	0	1	0	0	0	0	0	0	0.08
JASSA FALCATA	1	1	0	0	1	0	11	1	6	1	0	1	1.83
SYNCHLIDIUM SP.	0	0	0	2	0	0	0	0	0	1	0	0	0.25
PHOXOCEPHALIDAE, UNID.	1	0	0	1	0	0	1	0	2	0	1	1	0.58
RHEPOXYNIUS ABRONIVS	0	0	0	0	0	0	1	0	0	0	0	0	0.08
RHEPOXYNIUS RICUSPIDATUS	0	0	1	0	0	0	0	0	0	0	3	0	0.33
RHEPOXYNIUS EPISTOMUS	0	2	1	5	1	0	2	0	7	0	1	7	2.17
RHEPOXYNIUS LUCURRANS	0	0	0	0	0	3	0	0	0	0	0	0	0.25
PARAPOXUS STENODES	0	0	0	0	0	0	0	0	0	0	1	0	0.08
STENOTHICE ESTACOLA	0	0	0	0	1	0	0	3	1	0	0	2	0.58
UGYRIDES SP.A	0	1	0	0	0	0	0	1	0	0	0	0	0.17
HEPTACARPUS TAYLORI	0	0	0	0	0	0	0	0	0	0	0	1	0.08
PAGURIDAE, UNID.	0	0	0	0	0	0	1	0	0	0	0	1	0.17
CREPIDULA NORRISIANUM	0	0	0	0	0	0	0	0	0	0	0	1	0.08
NEVERITA RECLUZIANA	0	0	1	0	0	0	0	0	0	0	0	0	0.08
NASSARIUS FOSSATUS	0	0	0	0	0	0	1	0	0	0	0	0	0.08
NASSARIUS PERPINGUIS	0	0	0	0	0	0	1	0	0	0	0	0	0.08
CLIVELLA BAETICA	0	1	1	1	0	0	2	2	0	0	1	1	0.75
ACTEODINA HARPA	0	0	1	0	1	0	0	0	0	0	0	0	0.17
TURRONILLA SP. E	1	0	0	0	0	0	0	0	0	0	0	0	0.08
YGLDIA SCISSURATA	0	0	1	1	0	2	1	0	0	1	2	2	0.83
MORICLUS NEGLECTUS	0	0	0	0	0	0	0	0	1	0	0	1	0.17
NEAEROMYA COMPRESSA	0	0	0	0	1	0	0	0	0	0	0	0	0.08
TELLINA MODESTA	2	1	4	5	4	2	0	0	3	7	3	6	3.08
MACOMA INDENTATA	0	0	0	0	0	0	0	0	0	1	0	0	0.08
MACOMA SP.	0	0	1	0	0	0	0	5	1	1	0	0	0.67
MACOMA CARLOTTENSIS	0	0	0	0	0	0	0	1	0	0	0	0	0.08
SOLEN ROSACEUS	0	0	0	1	0	0	0	0	0	0	0	0	0.08
SILIGUA LUCIDA	0	1	0	1	2	0	0	1	0	0	0	0	0.42
PERILOMA PLANIUSCULUM	0	0	0	0	0	0	0	1	0	0	0	0	0.08
ANGUINELLA PALMATA	1	0	0	0	0	0	0	0	0	0	0	0	0.08
GLOTTIDIA ALBIDA	0	0	0	0	0	0	0	1	0	0	0	0	0.08
OPHIOPHRAGMUS DIGITATA	0	0	0	0	0	0	0	1	0	0	0	0	0.08
AXIOGNATHUS PUGETANA	0	0	0	0	1	0	0	0	0	1	0	0	0.17
DENDRASTER EXCENTRICUS	0	0	0	0	0	0	0	0	0	1	0	0	0.08

Table III-4. Subtidal infaunal species density (mean number per liter) by replicate, August 1979 (Cont).

SPECIES	REPLICATES												MEAN
	1	2	3	4	5	6	7	8	9	10	11	12	
ISOEDWARDSIA SP. A	1	0	0	0	0	0	1	0	0	0	0	0	0.17
EDWARDSIA SIPUNCULOIDES	1	0	0	0	0	0	0	1	0	1	0	0	0.25
PLATYHELMINTHES, UNID.	0	0	0	2	0	0	0	0	0	0	0	0	0.17
NEMERTEA, UNID.	0	1	0	1	1	0	2	1	4	1	2	1	1.17
CERERRATULUS CALIFORNIENSIS	1	0	0	0	0	1	0	0	0	0	0	1	0.25
CARINOMA MUTABILIS	0	0	2	0	2	1	1	3	0	1	2	0	1.00
CARINOMELLA LACTEA	0	0	0	0	0	0	0	1	0	0	0	0	0.08
HARMOTHOF LUNULATA	0	0	0	0	1	0	0	0	0	0	0	0	0.08
SYLLIDAE, UNID.	0	0	0	0	0	0	1	0	0	0	0	0	0.08
TYPOSYLLIS ACICULATA	0	0	0	2	0	1	1	0	0	0	0	0	0.33
NEPREIS PROCERA	0	0	0	1	0	0	0	0	0	0	0	0	0.08
NEPHTYS CAECOIDES	0	0	0	0	0	1	0	0	0	0	0	0	0.08
NEPHTYS CORNUTA FRANCISCANA	0	3	0	1	0	1	0	1	1	1	1	0	0.75
GLYCERA CONVOLUTA	0	0	0	0	0	0	0	0	0	0	0	1	0.08
GLYCERA SP.	0	0	0	1	0	1	0	1	0	0	0	0	0.25
GLYCINDE ARMIGERA	0	0	0	0	0	1	1	0	0	0	1	0	0.25
GONIADA BRUNNEA	0	0	1	0	0	0	0	0	0	0	0	0	0.08
GONIADA LITTOREA	1	2	2	0	3	1	1	2	2	1	2	2	1.50
ACTHRIA IRIDESCENS	0	0	1	0	0	0	0	0	0	0	0	0	0.08
LUMBRINERIS LATREILLI	0	0	1	0	0	0	0	0	0	0	0	0	0.08
LUMBRINERIS TETRAURA	2	0	0	0	2	1	1	0	3	0	1	1	0.92
LUMBRINERIS SP.	2	3	1	4	0	0	2	3	3	2	1	3	2.00
LUMBRINERIS JAPONICA	1	0	0	0	0	0	0	0	0	0	0	0	0.08
ACESTA CATHERINAE	12	7	9	7	9	2	7	9	0	5	7	8	6.83
PRIONOSPIC CIRRIFERA	0	0	0	0	0	0	0	1	0	0	0	0	0.08
PARAPRIONOSPIC PINNATA	2	0	1	5	0	1	0	1	0	4	2	0	1.33
APOPRIONOSPIC PYGMAEUS	2	0	1	2	0	1	2	0	1	0	0	0	0.75
SPIOPHANES MISSIONENSIS	0	0	0	0	0	0	1	0	0	1	0	0	0.17
MAGELONA PITFLKAT	0	0	0	0	0	1	0	0	0	0	0	0	0.08
MAGELONA SACCOLATA	0	0	0	0	1	1	0	0	0	3	0	0	0.42
SPIOCHAETOPTERUS COSTARUM	0	0	0	0	0	1	0	0	1	1	0	1	0.33
CHAETOZONE SETOSA	1	0	1	0	1	0	2	1	2	0	1	1	0.83
CESSURA CANDIDA	0	0	0	0	1	0	1	0	0	0	0	0	0.17
TRAVISTA GIGAS	0	0	0	0	0	0	1	0	0	0	0	0	0.08
CAPITELLIDAE, UNID.	0	0	0	1	0	0	0	0	0	0	0	0	0.08
MEDIOMASTUS AMBISETA	20	24	12	4	29	1	14	14	1	5	4	8	11.33
MEDIOMASTUS ACUTUS	1	0	1	0	3	1	1	0	0	1	1	4	1.08
MEDIOMASTUS CALIFORNIENSIS	0	0	0	0	0	0	1	1	0	0	0	0	0.17
MEDIOMASTUS SP.	0	0	0	0	0	0	0	1	2	0	0	0	0.25
AMASTIGOS ACUTUS	0	1	0	0	0	0	0	0	0	0	0	2	0.25
MALDANIDAE, UNID.	0	1	0	0	0	0	0	0	0	0	0	0	0.08
ASYCHIS DISPARIDENTATA	0	1	0	1	0	0	0	1	0	1	0	0	0.33
AXIOHELLA RUBROINCTA	0	0	0	0	0	1	0	0	0	0	0	0	0.08
ARENIA COLLARIS	0	0	2	0	0	0	0	0	1	0	0	1	0.33
PECTINARIA CALIFORNIENSIS	0	0	0	0	0	0	0	1	0	0	1	0	0.17
AMPHARETE LARROPS	0	0	0	0	0	0	0	0	0	0	0	1	0.08
AMPHICTEIS SCAPHORANCHIATA	0	0	1	0	0	0	0	0	0	1	1	0	0.25
MELINNA OCLATA	0	0	0	0	0	0	0	0	0	1	0	0	0.08
TERFRELLIDAE, UNID.	0	0	0	0	0	1	0	0	0	0	0	0	0.08
ANAEANA OCCIDENTALIS	1	0	2	3	1	0	0	1	0	0	2	0	0.83
FISTA FASCIATA	0	0	1	1	2	1	0	0	2	1	1	0	0.75
POLYCHIRUS SP.	0	1	0	1	2	1	0	0	0	0	1	0	0.50
FUCHONE INCOLOR	0	0	0	0	0	0	0	1	0	0	1	0	0.17
SIPUNCULID SP. A	0	0	0	0	0	0	0	0	1	0	0	1	0.17
SIPUNCULID SP. C	0	0	0	0	0	1	0	1	0	0	0	0	0.17
CYLINDROBERIDIDAE, UNID.	0	0	2	0	1	0	0	2	0	0	0	0	0.42
EUPHLOMEDES CARCHARODONTA	2	2	2	0	3	4	0	2	1	2	1	2	1.75
EUPHLOMEDES SP.	0	0	2	0	0	0	0	0	0	0	0	0	0.33
RUITDERNA ROSTRATA	0	0	0	0	0	0	0	0	0	1	0	0	0.08
CYCLOLERIS AMERICANA	4	0	0	0	0	0	0	0	0	1	0	0	0.42
NEHALIA SP.	6	0	0	0	0	0	0	0	0	0	0	0	0.50

Table III-4. Subtidal infaunal species density (mean number per liter) by replicate, August 1979 (Cont).

STATION C3 (CONT). 29 August 1979

SPECIES	REPLICATES												MEAN
	1	2	3	4	5	6	7	8	9	10	11	12	
CYCLASPIS NUBILA	0	1	1	0	0	6	2	0	0	0	0	0	0.83
CYCLASPIS SP. B	0	0	0	0	0	3	0	0	0	0	0	0	0.25
DIASTYLOPUS TENUIS	0	0	1	0	0	0	0	1	0	0	0	1	0.25
HEMILAMPROPS CALIFORNICA	0	0	0	0	0	1	0	1	2	0	1	0	0.42
CAMPYLASPIS SP. C	0	0	0	0	0	0	0	0	1	0	0	0	0.08
CUMELLA SP.	0	0	0	0	0	1	0	0	0	0	1	0	0.17
CUMELLA SP. A	0	0	0	0	0	1	1	1	0	0	0	0	0.25
OXYUROSTYLIS PACIFICA	2	0	0	0	0	1	0	1	4	0	0	0	0.67
LEPTOCUMA FORSMANI	0	0	0	0	1	0	0	0	0	0	0	0	0.08
EOOTEA SUHLITTORALIS	0	0	0	0	0	0	1	0	0	0	0	1	0.17
AMPELISCA CRISTATA	2	1	2	2	0	4	4	0	1	6	6	2	2.50
AMPELISCA SP.	0	0	0	0	0	0	0	0	0	1	0	0	0.08
AMPELISCA COMPRESSA	0	0	0	1	0	0	0	2	0	1	1	0	0.42
ACUMINODEUTOPUS HETERUROPUS	0	0	1	1	1	0	0	2	0	0	2	3	0.83
RUDILEMBOIDES STENOPROPODUS	0	0	0	0	0	0	0	1	0	0	0	0	0.08
AMPHIDEUTOPUS OCULATUS	0	0	0	0	0	0	0	1	0	0	0	0	0.08
ARGISSA HAMATIPES	0	0	0	0	0	0	0	1	0	1	0	1	0.17
MEGALUROPOUS LONGIMERUS	0	0	0	0	1	0	0	0	0	0	0	0	0.08
PHOTIS SP.	0	0	0	0	0	0	0	1	0	0	0	0	0.08
PHOTIS CALIFORNICA	0	0	0	0	0	0	0	1	0	0	0	0	0.08
JASSA FALCATA	1	7	1	0	1	1	2	2	0	1	1	0	1.42
LITRIELLA ERIPIOSA	0	0	0	0	0	0	0	0	1	0	0	0	0.08
PACHYNIUS HARNARDI	0	0	0	0	1	0	1	0	0	0	0	0	0.17
HIPPOMEDON DENTICILATUS	31	0	0	0	0	0	0	0	0	0	0	0	2.58
SYNHELIDIUM SP.	0	0	0	0	0	0	0	0	3	0	0	0	0.25
MENOCULODES HARTMANAE	0	0	0	0	2	0	0	0	0	0	0	0	0.17
PHOXOCEPHALIDAE, UNID.	0	0	0	0	1	0	0	0	0	0	0	0	0.08
RHEPOXYNIUS ABRONIS	1	0	0	1	1	0	0	0	0	0	0	0	0.25
RHEPOXYNIUS EPISTOMIS	2	0	0	0	0	1	1	0	0	1	1	0	0.50
PARAPHOXUS STENODES	2	0	0	0	0	0	1	0	2	2	2	0	0.58
PARAPHOXUS VARIATUS	0	0	0	0	0	0	0	0	0	0	1	0	0.08
STENOTHOE ESTACOLA	1	1	0	0	0	0	0	0	0	0	0	0	0.17
AMPHIPODA, UNID.	0	0	0	0	0	0	0	0	0	0	0	1	0.08
CALLIANASSA SP.	0	0	0	0	0	0	0	0	0	0	0	1	0.08
ISOCHELES PILOSUS	0	0	0	0	0	0	0	0	0	0	0	1	0.08
NASSARIUS FOSSATUS	0	0	0	0	0	0	0	0	0	0	1	0	0.08
NASSARIUS PERPINGUIS	0	0	0	0	2	0	0	0	0	0	0	0	0.17
NASSARIUS SP.	0	1	0	0	2	3	1	1	1	2	0	0	0.92
GLIVELLA BAETICA	1	1	0	6	0	0	1	0	0	0	0	0	0.75
SULCURETUSA XYSTRUM	0	0	0	0	1	0	0	1	0	0	0	1	0.25
ACTECCINA HARPA	0	0	0	0	0	0	0	0	0	1	0	0	0.08
CYCLOSTREMELLA DALLI	0	0	0	0	0	0	0	0	0	0	0	1	0.08
YCLDIA SCISSIONATA	0	0	0	0	0	0	0	1	1	0	0	0	0.17
MYTILIDAE, UNID.	0	0	0	0	0	0	0	0	0	0	0	1	0.08
LUCINA NUTTALLI	0	0	0	0	0	0	0	0	0	0	0	2	0.17
MYSELLA SP. F	1	0	0	0	0	0	0	0	0	2	0	1	0.33
NEAEROMYA COMPRESSA	0	0	3	0	0	0	0	0	0	0	0	0	0.25
CHIONE SP.	0	0	0	0	0	1	1	0	1	0	0	0	0.25
COOPERELLA SUBDIAPHANA	1	1	1	0	0	0	0	0	0	0	0	1	0.33
TELLINA MODESTA	4	1	1	0	0	4	1	0	1	1	1	3	1.42
MACOMA ACOLASTA	2	0	0	0	0	0	0	0	0	0	1	0	0.25
MACOMA SP.	0	0	1	0	0	3	0	4	1	0	1	1	0.92
SILIOUA LUCIDA	0	0	0	1	0	0	0	0	0	0	0	0	0.08
PERIPLOMA PLANIUSCULUM	0	0	1	0	0	0	0	0	0	0	0	0	0.08
CADULUS FUSIFORMIS	0	0	0	0	1	0	0	0	0	0	0	0	0.08
PHORONIDA, UNID.	0	0	0	0	0	1	0	0	0	0	0	0	0.08
GLOTTIDIA ALBIDA	0	0	0	0	0	0	0	0	0	0	1	0	0.08
OPHIOPHRAGMUS DIGITATA	0	0	0	0	0	0	1	0	0	0	0	0	0.08
OPHIOPHRAGMUS URTICA	0	0	0	0	0	1	0	0	0	0	0	0	0.08
HEMICHORDATA, UNID.	0	0	0	0	0	0	0	0	1	1	0	1	0.25

Table III-4. Subtidal infaunal species density (mean number per liter) by replicate, August 1979 (Cont).

29 August 1979

STATION D1

SPECIES	REPLICATES					MEAN
	1	2	3	4	5	
ANTHOZOA, UNID.	0	0	1	0	0	0.20
PLATYHELMINTHES, UNID.	1	0	0	0	0	0.20
NEMERTEA, UNID.	0	2	0	0	1	0.60
CARINOMA MUTABILIS	0	0	2	2	1	1.00
FUSIGALION SPINOSUM	0	0	1	0	0	0.20
NEPHTYS CAECOIDES	1	0	1	0	0	0.40
GLYCERA CONVOLUTA	0	0	0	0	1	0.20
GLYCERA SP.	0	0	0	0	1	0.20
GONIADA LITTOREA	1	2	1	0	2	1.20
GONIADA SP.	2	1	0	0	1	0.80
SCOLOPLOS ARMIGER	0	0	2	1	4	1.40
PARANELLA PLATYHRANCHIA	0	2	0	0	0	0.40
PARANIDAE, UNID.	0	0	1	0	0	0.20
ACESTA CATHERINAE	0	0	1	0	0	0.20
PRIONOSPIO CIRRIFERA	0	0	0	0	1	0.20
APOPRIONOSPIO PYGMAEUS	8	2	10	1	5	5.20
SPIOPHANES BOMBYX	2	1	0	3	3	1.80
MAGELONA PITEUKAI	2	0	0	0	1	0.60
MAGELONA SACCULATA	0	0	0	1	0	0.20
AMASTIGOS ACUTUS	50	33	78	49	61	54.20
PECTINARIA CALIFORNIENSIS	0	0	0	0	1	0.20
EUPHILOMEDES LONGISETA	2	0	3	1	0	1.20
DIASTYLOPSIS TENUIS	5	3	0	2	3	2.60
LEPTOCUMA FORSMANI	4	3	1	0	0	1.60
ECOTEA SUBLITTORALIS	1	0	0	0	0	0.20
FCHAUSTORIUS WASHINGTONIANUS	0	0	1	1	1	0.60
JASSA FALCATA	2	0	1	0	4	1.40
PHOXOCEPHALIDAE, UNID.	1	0	0	0	0	0.20
RHEPOXYNIUS RICUSPIDATUS	3	0	0	3	1	1.40
RHEPOXYNIUS EPISTOMUS	3	1	0	0	0	0.80
LEPIDOCPA CALIFORNICA	0	1	0	0	0	0.20
CAECUM CALIFORNICUM	1	0	0	0	0	0.20
EPITONIUM SP.	0	1	0	0	0	0.20
OLIVELLA BAETICA	0	0	1	0	0	0.20
MYTILIDAE, UNID.	0	0	0	0	1	0.20
TELLINA MODESTA	1	0	4	2	1	1.60
MACOMA SP.	0	0	2	0	1	0.60
SOLEN ROSACEUS	1	0	2	0	0	0.60
SILIGUA LUCIDA	0	1	0	1	2	0.80

Table III-4. Subtidal infaunal species density (mean number per liter) by replicate; August 1979 (Cont).

SPECIES	STATION D2 29 August 1979												MEAN
	REPLICATES												
	1	2	3	4	5	6	7	8	9	10	11	12	
ANTHOZOA, UNID.	0	1	0	0	0	0	0	0	0	0	0	0	0.08
PLATYHELMINTHES, UNID.	1	0	0	0	0	0	0	0	0	0	0	1	0.17
NEMERTEA, UNID.	1	0	3	0	0	0	2	0	0	0	0	0	0.50
CARINOMA MUTABILIS	1	0	2	1	0	1	0	1	0	1	0	0	0.58
PARANEMERTES SP.	0	0	0	0	0	0	0	0	0	0	0	1	0.08
STHENELAIS VERRUCULOSA	0	1	0	0	0	0	0	0	0	0	0	0	0.08
ETEONE DILATAE	0	0	0	0	0	0	0	0	0	0	0	1	0.08
GYPTIS BREVIPALPA	0	1	0	0	0	0	0	0	0	0	1	0	0.17
PARANDALIA FAUVELI	0	1	0	0	0	0	0	0	0	0	0	0	0.08
NEPHYTYS CAFCOJIDES	0	0	0	2	0	0	0	1	1	1	0	0	0.42
NEPHYTYS SP.	0	1	0	0	0	0	0	0	0	0	0	0	0.08
GLYCERA SP.	0	0	0	0	0	0	0	0	1	0	0	0	0.08
GONIADA LITTOREA	2	3	1	3	2	2	3	1	2	1	7	1	2.33
LUMBRINERIS LATRIFILLI	0	0	0	0	0	0	0	0	0	0	0	1	0.08
LUMBRINERIS TETRAURA	0	0	0	1	0	0	0	0	0	0	0	0	0.08
LUMBRINERIS PALLIDA	0	0	0	0	0	0	0	1	0	0	0	0	0.08
ARABELLA TRICOLOR	0	0	1	0	0	0	0	0	0	0	0	0	0.08
HAPLOSCOLOPLOS ELONGATUS	1	0	0	0	0	0	1	1	0	0	0	1	0.33
SCOLOPLOS ARMIGER	0	1	0	0	0	0	0	0	0	0	0	1	0.17
PARADNELLA PLATYHRANCHIA	0	0	0	0	0	0	0	0	0	0	1	0	0.08
ACESTA CATHERINAE	6	3	4	1	4	0	0	9	4	3	3	0	3.08
SFIUNIDAE, UNID.	0	1	0	0	0	0	0	0	0	0	0	0	0.08
PHIONOSPIU CIRRIFERA	0	1	0	0	0	0	0	0	0	0	0	0	0.08
APOPHIONOSPIU PYGMAEUS	0	1	2	0	0	2	0	0	0	2	1	0	0.67
SPIOPHANES HOMBYX	0	3	3	1	0	0	1	1	0	0	0	0	0.75
SPIOPHANES SP.	0	0	0	0	0	0	0	0	0	1	0	0	0.08
MAGELONA PITELKAI	1	0	0	0	0	0	0	0	0	0	0	0	0.08
MAGELONA SACCOLATA	0	0	0	0	1	0	0	0	0	0	0	0	0.08
SPIOCHAFTOPTERUS COSTARUM	1	0	0	0	0	0	1	1	0	0	0	0	0.25
CHAFTOCONE SETOSA	0	0	0	0	0	0	0	1	0	0	0	0	0.08
THARYX SP.	0	1	0	0	0	0	0	0	0	0	0	0	0.08
MEDIOMASTUS AMHISETA	0	3	1	0	0	0	0	1	1	0	2	1	0.75
MEDIOMASTUS ACUTUS	0	0	0	1	0	1	1	1	0	0	6	1	0.92
MEDIOMASTUS CALIFORNIAENSIS	0	0	2	0	1	0	0	0	0	0	0	0	0.25
MEDIOMASTUS SP.	0	0	0	0	0	0	0	0	0	0	1	0	0.08
AMASTIGOS ACUTUS	55	77	55	5	34	47	3	60	7	21	29	13	34.25
PECTINARIA CALIFORNIENSIS	0	0	0	1	0	0	2	1	2	0	1	0	0.58
AMPHARTE LABROPS	0	2	0	0	0	0	0	0	0	0	0	0	0.17
AMAEANA OCCIDENTALIS	0	0	0	0	0	0	2	0	0	0	1	0	0.25
CALLIPALLENE SP.	0	0	0	0	0	0	0	0	0	0	1	0	0.08
CYLINDROLEBERIDIDAE, UNID.	1	0	0	0	0	1	1	0	0	0	0	0	0.25
EUPHILOMEDES LONGISETA	0	1	2	0	2	1	0	2	0	0	1	0	0.75
EUPHILOMEDES CARCHARODONTA	0	0	2	1	0	4	0	2	1	2	2	0	1.17
EUPHILOMEDES SP.	0	0	1	0	0	0	0	0	0	0	0	0	0.08
CYCLOLEBERIS AMERICANA	0	0	0	0	0	0	0	0	0	0	1	0	0.08
CALANGIDA, UNID.	1	0	0	0	1	0	0	0	0	0	0	0	0.17
CYCLASPIS NUBILA	0	0	0	0	0	0	0	0	0	0	1	0	0.08
ANCHICOLURUS OCCIDENTALIS	1	0	0	0	0	0	0	0	0	0	0	0	0.08
DIASTYLOPSIS TENUIS	18	9	7	3	3	15	11	11	18	20	6	0	10.08
LEPTOCUMA FORSMANI	0	0	0	0	0	0	0	1	1	0	0	0	0.17
BATHYCOFFA GRANULATUS	0	0	1	0	0	0	0	0	0	0	0	0	0.08
ECOTEA SUBLITTORALIS	0	1	0	0	0	0	1	1	0	0	0	0	0.25
AGROIDES COLUMBIAE	0	2	0	0	0	0	0	0	0	0	2	0	0.33
ARGISSA HAMATIPES	0	0	0	0	0	0	1	1	0	1	0	1	0.33
ATYLUS TRIDENS	0	1	0	0	0	0	0	0	0	0	0	0	0.08
CERAPUS TUBULARIS	0	2	0	0	0	0	0	0	0	0	0	0	0.17
PHOTIS SP.	0	1	0	0	0	0	0	0	1	2	0	1	0.42
PHOTIS MACROTICA	0	0	0	0	0	0	0	0	2	0	0	0	0.17
JASSA FALCATA	0	3	1	0	0	0	0	0	1	0	0	0	0.42
SYNCHELIDIUM SP.	0	0	0	0	0	0	0	0	0	0	2	0	0.17
PHOXOCEPHALIDAE, UNID.	0	0	0	0	1	0	0	0	0	0	0	0	0.08
RHEPOXYNIUS ARRONIUS	0	0	0	1	0	0	0	0	0	0	1	0	0.17
RHEPOXYNIUS EPISTOMUS	2	1	1	2	0	1	0	0	1	1	2	3	1.17
TIRON TROPAKIS	0	0	0	0	0	1	0	0	0	0	0	0	0.08
GAMMARIDEA, UNID.	0	1	0	0	1	1	1	0	0	0	0	0	0.33
CANCER GRACILIS	0	0	0	0	0	0	0	0	0	0	1	0	0.08
CYRRHYNCHA, UNID.	0	0	0	1	0	0	0	0	0	0	0	0	0.08
EPITONIUM CALIFORNICUM	0	1	0	0	0	0	0	0	0	0	0	0	0.08
CREPIDULA SP.	0	1	0	0	0	0	0	0	0	0	0	0	0.08
NEVERITA RECLUZIANA	0	0	0	0	0	1	0	0	0	0	0	0	0.08
CLIVELLA HAETICA	0	0	1	1	0	0	0	0	1	0	0	3	0.50
KURTZIELLA PLUMBEA	0	0	0	0	0	0	0	1	1	0	1	0	0.25
OPHIODERMELLA CANCELLATA	0	0	0	1	0	0	0	0	0	0	0	0	0.08
YCLODIA SCISSURATA	1	1	0	0	0	2	1	1	0	5	2	0	1.08
MODIOLUS NEGLECTUS	0	0	0	0	0	0	0	0	0	0	3	0	0.25
MYTILIDAE, UNID.	0	0	0	0	0	0	0	0	0	1	0	0	0.08
PETRICOLA SP.	1	0	0	0	0	0	0	0	0	0	0	0	0.08
AMANTIS CALLOSA	0	0	0	0	0	0	1	0	0	0	0	0	0.08
TELLINA MODESTA	0	2	5	0	0	4	2	0	4	1	2	0	1.67
MACOMA SP.	0	0	0	0	0	0	0	0	0	1	0	1	0.17
SOLEN SICARIUS	0	0	1	0	0	0	0	0	0	0	0	1	0.17
SILIOUA LUCIDA	0	0	0	1	0	1	1	0	0	0	0	0	0.25
PERIPLOMA PLANUSCULUM	1	0	1	0	0	1	1	1	0	1	0	0	0.50
OPHIUROIDEA, UNID.	0	0	0	0	0	1	0	0	0	0	0	0	0.08
OPHIOPHRAGMUS DIGITATA	0	0	0	0	0	0	0	0	0	0	0	1	0.08

Table III-4. Subtidal infaunal species density (mean number per liter) by replicate, August 1979 (Cont).

STATION D3 29 August 1979

SPECIES	REPLICATES												MEAN
	1	2	3	4	5	6	7	8	9	10	11	12	
Cnidaria, UNID.	0	0	0	0	0	1	0	0	0	0	0	0	0.08
ISOEDWARDSIA SP. A	0	1	0	0	0	0	0	0	0	0	0	0	0.08
EDWARDSIA SIPUNCULOIDES	0	0	0	0	0	0	1	0	0	0	0	0	0.08
PLATYHELMINTHES, UNID.	1	2	0	0	1	0	0	0	0	1	0	0	0.42
NEMERTEA, UNID.	0	1	0	1	1	0	0	0	0	0	2	0	0.42
CARINOMA MUTABILIS	2	3	0	0	0	1	0	1	3	2	0	1	1.08
MICRURA ALASKANSIS	0	0	0	0	1	0	0	0	0	0	0	0	0.08
NEMATODA, UNID.	0	0	0	0	0	0	0	0	1	0	0	0	0.08
STHENELEIS VERRUCULOSA	0	0	0	0	0	0	0	0	0	0	0	1	0.08
STHENELENELLA UNIFORMIS	0	0	0	0	0	1	0	0	0	0	0	0	0.08
ELSIGALION SPINOSUM	0	0	0	0	0	0	0	1	0	0	0	0	0.08
ANAITIDES SP.	0	0	0	0	0	0	0	1	0	0	0	0	0.08
ETEONE ALBA	0	0	0	1	0	0	0	0	0	0	0	0	0.08
GYPTIS BREVIPALPA	1	0	0	0	0	0	0	0	0	0	0	0	0.08
TYPOSYLLIS ACICULATA	0	0	0	0	0	1	0	2	1	0	1	0	0.42
TYPOSYLLIS SP.	0	0	0	1	0	0	0	0	0	0	0	0	0.08
NEPHTYS CALCOIDES	0	0	0	0	0	0	1	0	0	0	1	0	0.17
NEPHTYS CORNUTA FRANCISCANA	0	0	0	0	1	0	0	0	0	0	0	0	0.08
SPHARODOPIS BISERTALIS	0	1	0	0	0	0	0	0	0	0	0	0	0.08
GLYCERA SP.	0	0	0	0	0	0	0	1	0	0	0	1	0.17
GLYCIIDE ARMIGERA	0	1	0	2	0	0	1	0	0	0	1	1	0.50
GEMMADA BRUNNEA	0	0	0	0	0	0	0	0	0	0	1	0	0.08
GEMMADA LITTORFA	0	0	1	4	3	2	1	3	0	1	1	0	1.33
LUMBRINERIS TETRAURA	2	0	0	0	0	4	0	0	0	2	0	4	1.00
LUMBRINERIS SP.	3	0	0	0	2	0	0	0	0	0	0	0	0.42
HAPLOSCHLOPLOS ELONGATUS	0	0	0	0	0	1	0	0	0	0	0	0	0.08
SCHLOPLOS ARMIGER	0	1	0	1	0	0	0	0	0	0	0	0	0.17
PARAONIDAE, UNID.	0	2	0	0	0	0	0	0	0	0	0	0	0.17
ARICIDEA MASSI	0	0	1	0	0	0	0	0	0	0	0	0	0.08
ACESTIA CATHERINAE	9	9	2	2	4	2	3	5	7	5	4	5	4.75
PARAPRIONOSPIO PINNATA	0	1	0	1	0	0	0	0	1	0	0	0	0.25
APOPRIONOSPIO PYGMAEUS	2	3	0	0	1	0	1	1	0	2	3	4	1.42
SPIOPHANES ROMMYX	1	1	1	0	0	0	0	0	0	0	0	0	0.25
SPIOPHANES MISSOURIENSIS	0	1	0	0	0	0	0	0	0	0	0	0	0.08
MAGELONA SACCOLATA	1	1	0	0	0	0	0	1	1	2	0	1	0.58
SPIOCHAETOPTERUS COSTARUM	0	1	0	0	0	0	0	0	1	0	0	0	0.17
CHAETOCYONE SFTOSA	0	0	1	0	0	1	0	3	2	2	0	1	0.83
THARYX SP.	0	0	0	1	0	0	1	1	0	0	0	0	0.25
TRAVISIA GIGAS	1	0	1	0	0	0	0	0	0	0	0	0	0.17
MEDIOMASTUS AMRISETA	5	7	0	11	8	3	0	10	2	5	1	0	4.33
MEDIOMASTUS ACUTUS	0	0	0	1	1	0	0	2	0	2	2	1	0.75
ANASTIGOS ACUTUS	0	0	0	0	1	0	0	1	2	0	0	0	0.33
ASYCHIS DISPARIDENTATA	0	0	1	0	0	0	0	0	0	0	0	0	0.08
ELCLYMENE DELINEATA	0	0	0	0	0	0	0	0	0	0	0	1	0.08
CFENIA COLLARIS	0	0	1	0	0	0	0	0	1	0	0	0	0.17
PECTINARIA CALIFORNIAENSIS	0	0	0	0	0	0	0	2	1	0	0	0	0.25
AMPHARETE LABROPS	0	1	2	1	0	1	0	0	0	0	0	0	0.42
AMAEANA OCCIDENTALIS	0	0	1	0	0	0	0	0	0	0	1	0	0.17
POLYCIRRUS SP.	0	0	0	2	1	1	0	0	0	0	0	0	0.33
SIPUNCULID SP. B	0	0	0	0	0	0	0	1	1	0	0	0	0.17
SIPUNCULID SP. C	1	0	1	0	1	1	2	1	0	0	1	0	0.67
CYLINDROLBREBERIDIDAE, UNID.	0	0	0	1	0	0	1	0	0	0	0	0	0.17
FUPHILOMEDES CARCHARODONTA	0	0	1	1	1	0	0	0	0	0	0	0	0.25
CYCLOLERIS AMERICANA	0	1	0	1	0	1	0	0	0	0	0	1	0.33
PODOCOPIA, UNID.	0	0	0	0	0	0	0	1	0	0	0	0	0.08



Table III-4. Subtidal infaunal species density (mean number per liter) by replicate, August 1979 (Cont).

STATION D3 (CONT). 29 August 1979

SPECIES	REPLICATES												MEAN
	1	2	3	4	5	6	7	8	9	10	11	12	
RUTIDERMA JUDAYI	0	0	0	0	0	0	0	0	0	0	0	1	0.08
HARPACTICOIDA, UNID.	0	0	0	0	0	0	0	1	0	1	0	0	0.17
CALANOIDA, UNID.	0	0	0	0	0	1	0	0	0	0	1	0	0.17
CGMACEA, UNID.	0	0	0	0	0	0	0	0	0	0	1	0	0.08
CYCLASPIS NUBILA	1	2	2	0	0	1	0	1	0	0	0	1	0.67
CYCLASPIS SP. C	0	0	0	0	0	0	0	1	0	0	0	0	0.08
ANCHICOLURUS OCCIDENTALIS	2	1	0	2	1	1	0	1	0	1	0	0	0.75
DIASTYLOPSIS TENUIS	3	3	1	4	4	0	2	2	3	1	0	5	2.33
LAMPROPS CARINATA	0	0	0	1	0	0	0	0	0	0	0	0	0.08
LAMPROPS QUADRIPLICATA	0	0	0	0	0	0	0	1	0	0	0	0	0.08
HEMILAMPROPS CALIFORNICA	0	2	1	0	0	0	0	2	0	0	0	1	0.50
CAMPYLASPIS SP. C	0	0	0	1	0	0	0	0	0	2	0	0	0.25
CUMELLA SP.	0	1	0	0	0	0	0	0	0	0	0	0	0.08
CUMELLA SP. A	0	0	0	0	0	0	0	1	0	0	0	0	0.08
OXYUROSTYLIS PACIFICA	0	0	0	1	0	0	0	1	1	0	0	0	0.25
PATHYCOPEA GRANULATUS	0	0	0	0	0	0	0	0	0	1	0	0	0.08
ECOTEA SUBLITTORALIS	0	1	1	0	0	0	0	2	0	0	0	0	0.33
MUNNA URIQUITA	0	1	0	0	0	1	0	1	0	0	0	1	0.33
AMPELISCA CRISTATA	0	0	1	0	2	0	2	0	0	0	0	0	0.42
AMPELISCA COMPRESSA	1	1	1	0	0	1	0	0	0	1	0	1	0.50
AMPHILOCHIS LITORALIS	0	0	0	0	0	0	0	0	0	1	0	0	0.08
RDILEMBOIDES STENOPROPODUS	1	1	0	0	0	0	1	0	0	0	0	0	0.25
AMPHIDEUTOPUS OCHLATUS	0	0	0	0	0	1	0	0	0	0	0	0	0.08
ARGISSA HAMATIPES	0	0	0	1	0	0	1	0	0	0	0	1	0.25
MEGALUROPOUS LONGIMERUS	1	1	0	0	0	2	0	1	1	1	0	0	0.58
PHOTIS SP.	5	0	0	0	2	2	2	17	2	4	5	7	3.83
PHOTIS BREVIPES	3	0	0	0	0	0	0	0	0	0	0	0	0.25
PHOTIS CALIFORNICA	0	0	2	1	0	0	0	0	0	0	0	0	0.25
PHOTIS LACIA	0	0	0	0	0	1	0	0	0	0	0	0	0.08
PHOTIS MACROTICA	0	0	2	0	0	1	1	0	2	3	3	3	1.25
JASSA FALCATA	2	0	1	0	0	0	0	0	1	0	0	0	0.33
PACHYNUS BARNARDI	0	0	1	0	0	0	1	0	0	0	0	0	0.17
SYNCHELIDIUM SP.	0	0	0	0	2	0	0	0	0	1	0	0	0.25
MROCOULODES HARTMANAE	0	0	0	1	0	0	0	0	0	0	0	0	0.08
PHOXOCEPHALIDAE, UNID.	0	0	1	1	0	0	1	0	0	0	0	0	0.25
RHEPOXYNIUS ARRONIUS	0	1	0	0	2	0	2	0	0	1	1	0	0.58
RHEPOXYNIUS EPISTOMUS	0	1	1	0	2	1	1	0	1	0	2	0	0.75
RHEPOXYNIUS DABOTUS	0	0	0	0	0	0	0	0	1	0	0	0	0.08
TIRON TROPAKIS	17	5	3	1	0	3	2	34	0	3	0	9	6.42
CALLIANASSA SP.	1	0	0	0	2	0	1	0	1	0	1	0	0.50
CREPIDULA SP.	0	0	0	0	0	0	0	0	0	0	0	1	0.08
NASSARIUS PERPINGUIS	0	0	0	0	0	1	1	0	0	0	0	1	0.25
CLIVELLA BAETICA	0	0	0	2	2	2	0	1	0	0	0	0	0.58
CLIVELLA SP.	0	0	0	0	0	0	0	0	0	0	0	1	0.08
AGLAJA BIOMEDEA	0	0	1	0	0	0	0	0	0	0	0	0	0.08
TURRONILLA CASTANEA	0	0	0	0	0	0	0	0	0	0	0	1	0.08
YULIA SCISSURATA	0	0	0	0	1	0	0	0	0	0	0	0	0.08
MODIOLUS NEGLECTUS	0	0	3	0	0	0	0	0	0	0	0	0	0.25
MYTILIDAE, UNID.	0	1	0	0	0	0	0	0	0	0	0	0	0.08
LUCINA NUTTALLI	0	0	0	0	0	0	0	0	0	0	1	0	0.08
TELLINA MODESTA	0	2	1	1	1	0	0	3	3	1	0	0	1.00
MACOMA SP.	0	0	0	0	0	1	0	0	0	0	0	1	0.17
SILIQUA LUCIDA	0	0	1	1	0	0	0	0	0	0	0	0	0.17
PHORONIDA, UNID.	0	0	0	2	0	0	0	0	0	0	0	0	0.17
AXIIGNATHUS PUGETANA	0	1	0	0	0	0	0	0	0	0	0	0	0.08
HEMICHORDATA, UNID.	0	0	0	0	0	0	1	0	1	0	0	0	0.17

Table III-4. Subtidal infaunal species density (mean number per liter) by replicate, August 1979 (Cont).

28 August 1979

STATION E1

SPECIES	REPLICATES					MEAN
	1	2	3	4	5	
CARINOMA MUTABILIS	2	1	3	0	1	1.40
FUSIGALION SPINOSUM	0	0	1	0	0	0.20
GYPTIS BREVIPALPA	0	0	0	1	0	0.20
GLYCINDE ARMIGERA	0	0	1	0	0	0.20
GONIADA LITTOREA	0	1	2	0	3	1.20
LUMBRINERIS SP.	0	1	0	0	0	0.20
PAPLOSCOLOPLOS ELONGATUS	1	0	0	0	0	0.20
SCOLOPLOS ARMIGER	2	2	7	3	3	3.40
PARAONIDAE, UNID.	0	0	0	0	1	0.20
ACESTA CATHERINAE	3	0	0	1	1	1.00
APOPRIONOSPPIO PYGMAEUS	4	7	4	2	1	3.60
SPIOPHANES BOMBYX	2	0	0	1	0	0.60
MAGELONA PITELKAI	0	1	0	0	1	0.40
AMASTIGOS ACUTUS	51	24	51	22	63	42.20
SIPUNCULIDA, UNID.	0	1	0	0	0	0.20
EUPHILOMEDES LONGISETA	0	0	7	2	2	2.20
EUPHILOMEDES CARCHARODONTA	0	2	0	0	1	0.60
DIASTYLOPSIS TENUIS	1	1	5	2	7	3.20
LEPTOCUMA FORSMANI	2	1	2	4	2	2.20
EODTEA SUBLITTORALIS	0	0	0	2	0	0.40
ECHAUSTORIUS WASHINGTONIANUS	1	0	3	1	0	1.00
PHOTIS SP.	0	0	1	0	0	0.20
JASSA FALCATA	3	2	3	3	1	2.40
RHEPOXYNIUS BICUSPIDATUS	2	5	1	0	2	2.00
RHEPOXYNIUS EPISTOMUS	1	0	4	1	2	1.60
RHEPOXYNIUS SP.	0	0	0	0	1	0.20
STENOCHOIDAE, UNID.	1	0	0	0	0	0.20
OLIVELLA BAETICA	0	0	2	1	1	0.80
YOLDIA SCISSURATA	1	0	0	0	0	0.20
MYTILIDAE, UNID.	0	0	0	0	1	0.20
TELLINA MODESTA	1	0	2	1	2	1.20
HIATELLA ARCTICA	0	0	1	0	0	0.20
OPHIOPHRAGMUS DIGITATA	0	0	0	0	1	0.20
AXIOGNATHUS SQUAMATA	0	0	0	1	0	0.20

Table III-4. Subtidal infaunal species density (mean number per liter) by replicate, August 1979 (Cont).

SPECIES	STATION E2 29 August 1979												MEAN
	REPLICATES												
	1	2	3	4	5	6	7	8	9	10	11	12	
ZAOLUTUS ACTIUS	0	0	0	0	0	0	0	0	0	1	0	0	0.08
NEMERTEA, UNID.	1	0	0	0	0	0	2	1	0	1	2	0	0.58
CARINOMA MUTABILIS	0	2	0	0	2	0	0	1	0	1	2	0	0.67
MICRURA ALASKANSIS	0	0	0	0	0	0	1	0	0	0	0	0	0.08
HARMOTHOE LUNULATA	0	1	0	0	0	0	0	0	0	0	0	0	0.08
FUSIGALION SPINOSUM	1	1	0	0	0	0	1	0	1	0	0	0	0.33
ETEONE ALBA	0	0	0	1	0	0	0	0	0	0	0	0	0.08
ETEONE DILATAE	0	0	0	0	0	0	1	0	0	0	0	0	0.08
TYPOSYLLIS ACICULATA	0	4	1	0	0	1	0	0	1	0	0	0	0.58
NEPHTYS CAECOIDES	0	0	0	0	0	0	0	1	0	1	0	0	0.17
GLYCERA CONVOLUTA	0	0	0	0	0	0	0	0	0	0	1	0	0.08
GLYCINDE ARMIGERA	0	0	1	0	0	0	0	0	0	0	0	0	0.08
GONIADA LITTOREA	0	2	1	1	0	2	0	0	0	0	1	1	0.67
GONIADA SP.	1	0	0	0	0	0	0	0	0	0	0	0	0.08
GNUPHIS EREMITA	0	0	0	0	0	0	0	0	1	0	0	0	0.08
LUMBRINERIS TETRAURA	0	1	0	1	0	1	1	0	0	0	0	0	0.33
LUMBRINERIS ZONATA	0	0	0	0	0	1	0	0	0	0	0	0	0.08
LUMBRINERIS SP.	0	0	0	0	0	0	0	0	1	1	0	0	0.17
LUMBRINERIS JAPONICA	0	0	1	0	0	0	0	0	0	0	0	0	0.08
HAPLOSCOLOPLOS ELONGATUS	0	0	3	0	0	2	0	0	0	0	0	0	0.42
SCOLOPLOS ARMIGER	0	0	0	0	0	1	0	0	0	0	0	0	0.08
ACESTA CATHERINAE	2	0	0	0	3	0	2	2	1	1	4	8	1.92
PARAPRIONOSPPIO PINNATA	2	0	0	0	0	0	0	1	0	0	0	0	0.25
APOPRIONOSPPIO PYGMAEUS	0	0	0	1	1	0	0	0	1	1	0	0	0.33
SPIOPHANES BOMBYX	3	0	0	1	0	1	0	1	0	0	0	0	0.50
SPIOPHANES SP.	0	0	0	0	1	0	0	0	0	0	0	0	0.08
MAGELONA SACCOLATA	0	0	0	0	1	0	0	0	0	1	0	0	0.17
PCEILOCHAETUS JOHNSONI	0	0	0	0	0	0	1	0	0	0	0	0	0.08
SPIOCHAETOPTERUS COSTARUM	0	0	0	0	0	0	1	0	0	0	1	0	0.17
CHAETOZONE SETOSA	0	0	0	0	0	0	1	0	0	1	0	1	0.25
MEDIOMASTUS AMBIVETA	0	0	0	0	0	0	2	0	0	0	0	0	0.17
MEDIOMASTUS ACUTUS	0	2	1	0	0	0	0	0	3	1	0	1	0.67
MEDIOMASTUS CALIFORNIFENSIS	0	0	0	1	0	1	1	0	0	1	0	0	0.33
MEDIOMASTUS SP.	0	0	0	0	0	0	1	0	0	0	1	0	0.17
AMASTIGOS ACUTUS	17	61	10	5	81	66	8	7	15	45	13	41	30.75
PECTINARIA CALIFORNIFENSIS	0	0	0	1	0	0	0	0	0	0	0	0	0.08
AMEAENA OCCIDENTALIS	0	1	1	0	0	1	0	0	0	0	0	1	0.33
PISTA FASCIATA	0	1	0	0	0	0	0	0	0	0	0	0	0.08
SIPUNCULID SP. C	0	0	0	0	1	0	0	0	0	0	0	0	0.08
CYLINDROLHERIIDAE, UNID.	0	0	0	0	0	0	0	1	0	0	0	0	0.08
EUPHILOMEDES LONGISETA	0	1	4	4	2	2	1	3	2	0	4	0	1.92
EUPHILOMEDES CARCHARODONTA	0	1	1	1	0	0	0	0	1	0	0	0	0.33
CYCLOPOIDA, UNID.	0	1	0	0	0	0	0	0	0	0	0	0	0.08
CALANOIDA, UNID.	0	0	0	0	0	0	0	0	1	0	0	0	0.08
METAMYSIDOPSIS ELONGATA	1	0	0	0	0	0	0	0	0	1	0	0	0.17
MYSIDACEA, UNID.	0	0	0	0	1	0	0	0	0	0	0	0	0.08
CYCLASPIS NUBILA	0	0	0	0	0	0	0	0	1	0	0	0	0.08
ANCHICOLURUS OCCIDENTALIS	1	0	0	0	0	0	0	0	0	0	0	0	0.08
DIASTYLOPSIS TENNIS	3	1	10	4	3	5	8	29	17	4	5	2	7.58
BATHYCOPEA GRANULATUS	0	1	0	0	0	0	2	3	1	0	1	0	0.67
ICOTFA RESECATA	0	0	0	0	0	0	1	0	0	0	0	0	0.08
EDOTEA SUBLITTORALIS	0	0	0	0	0	0	0	2	0	1	0	0	0.25
ATYLUS TRIDENS	0	0	0	0	0	0	0	0	1	0	0	0	0.08
MEGALUROPOUS LONGIMERUS	0	0	0	0	1	0	1	0	0	0	0	0	0.17
PHOTIS SP.	0	0	0	0	1	0	0	0	0	0	1	0	0.17
PHOTIS MACROTICA	0	0	0	0	0	0	1	0	0	0	0	0	0.08
JASSA FALCATA	1	0	1	0	1	10	0	1	6	5	6	3	2.83
RHEPOXYNIUS ABRONIVS	0	0	2	0	0	0	0	0	0	1	0	0	0.25
RHEPOXYNIUS BICUSPIDATUS	0	0	0	0	0	1	0	0	0	0	0	0	0.08
RHEPOXYNIUS EPISTOMUS	1	1	2	0	3	0	3	3	2	3	0	0	1.50
STENOTHOE ESTACOLA	0	0	0	0	0	0	0	0	2	0	0	0	0.17
TIRON TROPAKIS	0	0	0	0	0	0	1	0	0	0	0	0	0.08
GAMMARIDEA, UNID.	0	0	0	1	0	0	0	0	0	1	0	0	0.17
CAPRELLA CALIFORNICA	0	0	0	0	0	0	0	0	0	0	1	0	0.08
OGYRIDES SP. A	0	0	0	0	0	0	0	1	0	0	0	0	0.08
CANCER GRACILIS	0	0	0	0	0	0	0	0	0	0	1	0	0.08
ALIA CARINATA	0	0	0	0	0	0	0	0	0	1	0	0	0.08
CLIVELLA BAETICA	0	0	0	0	1	1	0	4	1	3	2	2	1.17
CYCLOSTREMELEA DALLI	0	0	0	1	0	0	0	0	0	0	0	0	0.08
YCLDIA SCISSURATA	0	1	2	2	1	1	1	1	1	0	1	1	1.00
MYTILIDAE, UNID.	0	0	0	0	0	0	0	0	0	0	0	1	0.08
LEPTOPECTEN LATIAURATUS	0	0	0	0	0	0	1	0	0	0	0	0	0.08
LUCINA NUTTALLI	0	0	0	0	1	0	0	0	0	0	0	0	0.08
PETRICOLA SP.	0	0	0	0	0	0	0	0	0	0	0	1	0.08
TELLINA MODESTA	0	0	1	1	4	0	5	2	2	4	1	1	1.75
MACOMA SP.	1	0	0	0	0	0	0	1	0	0	0	0	0.17
SOLEN SICARIUS	0	0	0	0	0	0	0	0	0	0	1	0	0.08
SILIQUA LUCIDA	0	0	0	0	0	1	0	0	0	0	0	0	0.08
PERIPLOMA PLANIUSCULUM	0	0	1	0	1	0	1	5	0	1	1	2	1.00
SCAPHOPODA, UNID.	0	0	0	0	1	0	0	0	0	0	0	0	0.08
PHORONIS SP.	0	0	0	0	0	0	0	0	0	0	0	1	0.08
DIAMPHIDIA OCCIDENTALIS	0	1	0	0	0	0	0	0	0	0	0	0	0.08

Table III-4. Subtidal infaunal species density (mean number per liter) by replicate, August 1979 (Cont).

STATION E3 28 August 1979

SPECIES	REPLICATES												MEAN
	1	2	3	4	5	6	7	8	9	10	11	12	
PLATYHELMINTHES, UNID.	0	0	0	0	0	0	0	0	1	0	0	0	0.08
NEMERTEA, UNID.	0	1	0	0	1	0	0	0	2	1	0	0	0.42
CARINOMA MUTABILIS	0	2	0	2	0	1	0	2	1	0	0	0	0.67
NEMATODA, UNID.	0	0	0	0	0	1	0	0	0	1	0	1	0.25
SYLLIDAE, UNID.	0	0	0	0	0	0	0	0	1	0	0	0	0.08
TYPOSYLLIS SP.	0	0	0	0	1	0	0	0	0	0	0	0	0.08
NEPHTYS CAECOIDES	0	0	0	0	0	0	0	0	0	1	1	0	0.17
NEPHTYS CORNUTA FRANCISCANA	0	0	0	0	0	0	1	0	0	0	0	0	0.08
NEPHTYS SP.	0	0	0	0	1	0	0	0	0	0	0	0	0.08
SPHAERODOPIS BISERIALIS	1	0	0	0	0	0	0	0	0	0	0	0	0.08
GLYCERIDAE	0	0	0	0	0	0	0	0	0	0	0	1	0.08
GLYCERA SP.	0	1	1	1	1	2	1	0	0	2	1	0	0.83
GLYCERA OXYCEPHALA	0	0	0	0	0	1	0	0	0	0	0	0	0.08
GLYCIANDE ARMIGERA	0	0	0	1	0	0	0	0	0	0	0	0	0.08
GCNIADA LITTORFA	0	0	0	1	0	1	0	0	0	0	0	2	0.33
CAUPHIDAE, UNID.	0	0	0	0	1	0	0	0	0	1	0	0	0.17
LUMBRINERIS TETRAURA	0	0	1	2	0	1	0	1	0	0	1	0	0.50
LUMBRINERIS SP.	1	0	0	2	0	0	0	0	0	0	0	0	0.25
ACESTA CATHERINAE	1	8	8	7	2	6	3	6	4	5	3	6	4.92
DISPID UNCINATA	0	0	0	0	1	0	0	0	0	0	0	0	0.08
PRIONOSPIO CIRRIFERA	0	0	0	0	0	0	0	0	2	0	1	0	0.25
PARAPRIONOSPIO PINNATA	0	0	0	2	0	0	1	0	0	0	0	0	0.25
ADOPRIONOSPIO PYGMAEUS	0	0	1	0	0	1	3	0	0	0	0	1	0.50
SPIOPHANES RUMBYX	0	1	1	0	1	0	0	0	1	0	0	0	0.33
SPIOPHANES MISSIONENSIS	0	0	0	0	0	0	0	1	0	0	0	0	0.08
SPIOPHANES SP.	1	0	0	0	0	0	0	0	0	0	0	0	0.08
MAGELCNA PITELKAI	0	0	0	0	0	0	0	0	1	0	0	0	0.08
MAGELONA SACCOLATA	0	2	0	1	2	3	4	0	1	0	2	2	1.42
SPIOCHAETOPTERUS COSTARUM	0	0	0	0	0	0	0	0	0	0	1	0	0.08
CIRRHATULIDAE, UNID.	0	0	0	0	0	0	0	0	1	0	0	0	0.08
CHAETIZONE SFTOSA	0	0	0	0	0	0	1	0	0	2	1	2	0.50
MEDIOMASTUS AMBISETA	0	6	0	14	2	3	26	16	13	10	0	8	8.17
MEDIOMASTUS ACUTUS	0	0	6	2	3	18	2	1	6	2	3	2	3.75
MEDIOMASTUS CALIFORNIENSIS	0	0	0	1	2	0	0	0	0	0	2	0	0.42
MEDIOMASTUS SP.	0	1	0	0	0	0	0	1	0	0	0	0	0.17
ANOTOMASTUS GORDIODES	0	0	0	0	0	0	0	1	0	0	0	0	0.08
AMASTIGOS ACUTUS	0	0	0	2	1	0	0	0	2	0	0	1	0.50
CHAFNIA COLLARIS	0	0	0	0	0	0	1	0	0	0	0	1	0.17
PECTINARIA CALIFORNIENSIS	0	0	0	0	0	0	0	2	0	0	0	0	0.17
AMPHARETE LARROPS	0	0	0	0	0	0	1	0	0	0	0	0	0.08
TEREBELLIDAE, UNID.	0	0	0	0	0	0	0	1	0	0	0	0	0.08
AMAEANA OCCIDENTALIS	0	0	0	0	1	1	0	1	0	0	0	0	0.25
LOIMIA MEDUSA	0	0	0	0	0	0	0	0	1	0	0	0	0.08
PISTA FASCIATA	0	1	0	0	0	0	1	0	0	0	2	0	0.33
MEGALOMMA PIGMENTUM	0	0	0	0	0	0	0	0	0	0	0	1	0.08
SIPUNCULIDA, UNID.	1	0	0	0	0	0	0	0	0	0	0	0	0.08
SIPUNCULID SP. C	0	2	1	0	0	0	0	0	0	0	0	0	0.25
EUPHILOMEDES CARCHARODONTA	0	0	0	0	0	0	1	2	0	0	0	0	0.25
ACTIDERMA JUDAYI	0	0	0	1	0	0	0	0	0	0	0	0	0.08
CYCLOPOIDA, UNID.	0	0	0	0	0	0	0	0	0	1	0	0	0.08
CALANOIDA, UNID.	1	1	0	0	0	0	1	0	0	2	0	0	0.42
CUMACEA, UNID.	0	0	0	0	0	0	0	0	0	1	0	0	0.08
CYCLASPIS NUBILA	0	0	0	1	0	1	0	0	0	0	1	0	0.25
CYCLASPIS SP. C	0	1	0	0	0	1	1	1	1	0	0	1	0.50
ANCHICOLURUS OCCIDENTALIS	0	0	0	1	0	0	0	0	0	0	1	0	0.17

Table III-4. Subtidal infaunal species density (mean number per liter) by replicate, August 1979 (Cont).

STATION E3 (CONT). 28 August 1979

SPECIES	REPLICATES												MEAN
	1	2	3	4	5	6	7	8	9	10	11	12	
DIASTYLOPSIS TENUIS	0	1	0	0	0	0	1	1	0	0	0	2	0.42
LAMPROPS CARINATA	0	0	0	0	0	0	0	0	0	1	0	0	0.08
HEMILAMPROPS CALIFORNICA	0	2	0	0	0	0	2	0	0	0	0	1	0.42
CAMPYLASPIS SP. C	0	0	0	1	0	0	0	0	0	0	0	0	0.08
OXYUROSTYLIS PACIFICA	0	0	0	1	0	0	0	0	0	0	0	0	0.08
EXOSPHEROMA SP.	0	0	1	0	0	0	0	0	0	0	0	0	0.08
MUNNA UBIQUITA	0	0	0	1	0	0	0	0	0	0	0	0	0.08
AMPELISCA COMPRESSA	0	0	0	0	0	0	2	0	0	0	0	0	0.17
RUDILEMROIDES STENOPOPODUS	0	0	0	0	0	0	0	0	0	0	0	1	0.08
ARGISSA HAMATIPES	0	0	0	1	0	0	1	0	0	0	0	0	0.17
ERICTHONIUS BRASILIENSIS	0	0	0	0	0	0	0	0	2	0	0	0	0.17
MEGALUROPOUS LONGIMERUS	0	2	0	1	0	0	4	0	0	0	1	2	0.83
PHOTIS SP.	0	0	0	1	0	7	2	0	8	0	0	1	1.58
PHOTIS LACIA	0	0	0	0	0	1	0	0	0	0	0	0	0.08
PHOTIS MACROTICA	0	0	0	1	0	1	0	0	2	0	0	1	0.42
JASSA FALCATA	0	1	0	0	0	0	0	0	5	0	0	0	0.50
HIPPOMEDON DENTICULATUS	0	0	0	0	0	0	0	0	0	0	0	1	0.08
SYNCHELIDIUM SP.	0	0	0	0	1	0	0	1	1	0	0	1	0.33
PHOXOCEPHALIDAE, UNID.	0	1	0	0	0	0	0	0	0	0	0	0	0.08
RHEPOXYNIUS EPISTOMUS	0	0	0	0	0	0	1	1	0	0	0	0	0.17
TIRON TROPAKIS	0	2	0	2	6	4	0	2	2	2	6	2	2.17
GAMMARIDEA, UNID.	0	0	0	0	0	0	0	0	0	1	0	0	0.08
CAPRELLA SP.	0	0	0	0	0	0	0	0	1	0	0	0	0.08
CALLIANASSA SP.	0	0	0	0	1	0	0	1	1	0	0	0	0.25
BRACHYURA, MEGALOPS, UNID.	0	1	0	0	0	0	0	0	1	0	0	0	0.17
EPITONIUM TINCTUM	0	0	0	0	1	0	0	0	0	0	0	0	0.08
NEVERITA RECLUZIANA	0	0	0	0	1	0	0	0	0	0	0	0	0.08
NASSARIUS PERPINGUIS	0	1	0	1	0	0	2	0	0	0	0	0	0.33
CLIVELLA HAETICA	0	1	0	1	0	0	2	3	2	0	0	0	0.75
OLIVELLA BIPLICATA	0	0	0	0	0	1	0	0	0	0	0	0	0.08
OLIVELLA SP.	0	0	0	1	0	0	0	0	0	0	0	0	0.08
RAMPHIDONTA RETIFERA	0	0	0	0	0	0	0	0	3	0	4	0	0.58
MACRIDAE, UNID.	0	0	0	0	1	0	0	0	0	0	0	0	0.08
TELLINA MODESTA	0	0	0	0	0	0	1	1	0	0	0	0	0.17
MACOMA SP.	0	1	0	0	0	0	0	0	0	0	0	0	0.08
SILIQUA LUCIDA	0	0	0	0	0	0	0	0	0	0	0	1	0.08
PHORONIDA, UNID.	0	2	0	0	0	0	0	0	0	0	0	0	0.17
OPHIUROIDEA, UNID.	0	0	0	0	0	0	1	0	0	0	0	1	0.17
OPHIOPHRAGMUS URTICA	0	0	1	0	0	0	0	0	0	0	0	0	0.08
HEMICHORDATA, UNID.	0	1	0	0	0	0	0	1	1	0	0	0	0.25

Table III-4. Subtidal infaunal species density (mean number per liter)  
by replicate, August 1979 (Cont).

28 August 1979

STATION F1

SPECIES	REPLICATES					MEAN
	1	2	3	4	5	
NEMERTEA, UNID.	1	2	0	0	0	0.60
CARINOMA MUTABILIS	0	0	0	1	0	0.20
TYPOSYLLIS ACICULATA	0	0	1	2	0	0.60
GLYCERA SP.	0	0	0	0	1	0.20
LUMBRINERIS TETRAURA	1	0	0	0	0	0.20
LUMBRINERIS PALLIDA	0	2	0	0	0	0.40
HAPLOSCOLOPLOS ELONGATUS	0	0	0	1	0	0.20
SCOLOPLOS ARMIGER	3	1	6	4	5	3.80
ACESTA CATHERINAE	0	1	0	0	0	0.20
APOPHRONOSPID PYGMAEUS	0	7	4	2	1	2.80
SPIOPHANES BOMBYX	2	0	1	2	2	1.40
MAGELONA PITELKAI	0	1	1	1	1	0.80
NOTOMASTUS TENUIS	0	10	0	0	0	2.00
AMASTIGOS ACUTUS	46	0	20	37	6	21.80
OWENIA COLLARIS	0	5	0	0	0	1.00
SABELLARIA NANELLA	1	56	0	0	0	11.40
AMAFANA OCCIDENTALIS	1	0	0	0	0	0.20
FUPHILOMEDES LONGISETA	0	3	3	2	3	2.20
PEODOCOPIDA, UNID.	0	1	0	0	0	0.20
CALANOIDA, UNID.	1	0	1	0	2	0.80
DJASTYLOPSIS TENUIS	3	1	7	4	0	3.00
LEPTOCOMA FORSMANI	0	0	2	4	0	1.20
FCHAUSTORIUS WASHINGTONIANUS	1	7	0	0	1	1.80
JASSA FALCATA	5	37	1	2	38	16.60
RHEPOXYNIUS RICUSPIDATUS	1	6	0	0	1	1.60
RHEPOXYNIUS EPISTOMUS	3	0	0	1	2	1.20
STENOCHOF ESTACOLA	0	1	0	0	0	0.20
GAMMARIDEA, UNID.	0	1	0	0	0	0.20
PAGURIDAE, UNID.	0	2	0	0	0	0.40
LEPIDOPA CALIFORNICA	0	1	1	1	0	0.60
OLIVELLA BAETICA	0	1	2	0	0	0.60
NEAEROMYA COMPRESSA	1	0	0	0	0	0.20
PETRICOLA SP.	0	1	0	0	0	0.20
TELLINA MODESTA	0	1	4	3	0	1.60
MACOMA INDENTATA	0	1	0	0	0	0.20
MACOMA SP.	0	1	2	1	0	0.80
SOLEN SICARIUS	0	0	0	0	1	0.20
DENDRASTER EXCENTRICUS	1	1	1	0	1	0.80

Table III-4. Subtidal infaunal species density (mean number per liter) by replicate, August 1979 (Cont).

STATION F2 28 August 1979

SPECIES	REPLICATES												MEAN
	1	2	3	4	5	6	7	8	9	10	11	12	
PLATYHELMINTHES, UNID.	0	0	0	0	0	0	0	0	1	0	1	0	0.17
NEMERTEA, UNID.	0	0	1	0	1	2	0	1	2	0	1	2	0.83
CARINOMA MUTABILIS	0	0	0	0	1	2	1	1	0	0	0	0	0.42
HARMOTHOE LUNULATA	0	0	1	0	1	0	0	0	0	0	0	0	0.17
SYLLIDAE, UNID.	0	0	0	0	1	0	0	0	0	0	0	0	0.08
TYPOSYLLIS ACICULATA	0	0	0	0	2	0	0	0	1	0	0	0	0.25
NEPHTYS CAECOIDES	1	2	0	1	1	2	0	1	1	0	0	0	0.75
GLYCERA SP.	0	0	0	0	0	0	0	0	0	0	1	0	0.08
GLYCINDE ARMIGERA	0	0	1	0	0	0	0	0	0	0	0	0	0.08
GONIADA LITTOREA	0	1	2	1	1	1	0	1	1	0	1	3	1.00
ONUPHIS EREMITA	0	1	0	0	0	0	0	0	0	0	0	0	0.08
LUMBRINERIS TETRAURA	0	0	1	1	0	0	0	1	0	0	3	0	0.50
LUMBRINERIS SP.	0	1	1	0	0	0	0	0	0	0	0	0	0.17
LUMBRINERIS PALLIDA	0	0	0	0	0	1	2	0	0	0	0	0	0.25
HAPLOSCOLOPLOS ELONGATUS	0	1	1	1	1	0	2	0	0	0	0	0	0.50
SCOLOPLOS ARMIGER	0	0	1	0	0	1	0	0	0	0	1	0	0.25
ACESTA CATHERINAE	2	4	0	2	0	0	0	1	5	3	3	0	1.67
PRIONOSPIO CIRRIFERA	0	1	0	0	0	0	0	0	0	0	0	0	0.08
AOPRIONOSPIO PYGMAEUS	0	0	0	0	0	0	0	0	0	0	1	0	0.08
MAGELONA SACCOLATA	0	1	0	0	0	0	0	0	0	0	0	0	0.08
SPIOCHAETOPTERUS COSTARUM	0	0	0	0	0	0	0	0	0	1	0	0	0.08
CAULLERIELLA ALATA	0	0	0	0	0	0	0	0	0	0	1	0	0.08
CHAETIZONE SETOSA	0	0	0	1	0	0	0	0	0	0	0	0	0.08
THARYX SP.	0	0	0	0	0	1	0	0	0	0	0	0	0.08
MEDIOMASTUS AMRISETA	1	0	1	0	0	0	0	1	1	0	0	0	0.33
MEDIOMASTUS ACUTUS	1	1	0	1	0	0	0	1	2	0	0	2	0.67
ANASTIGOS ACUTUS	14	39	30	24	35	44	18	18	52	10	24	12	26.67
PECTINARIA CALIFORNIENSIS	2	0	0	0	1	1	0	0	0	0	0	0	0.33
AMPHARETE LABRIPS	0	0	0	0	1	0	0	0	0	0	0	0	0.08
AMAEANA OCCIDENTALIS	0	0	3	0	2	1	0	0	0	1	0	1	0.67
CHONE MOLLIS	0	0	0	0	0	0	0	0	0	1	0	0	0.08
EUPHILOMEDES LONGISETA	0	1	3	2	3	5	2	1	2	0	0	0	1.58
EUPHILOMEDES CARCHARODONTA	0	0	1	0	0	0	0	1	0	0	0	1	0.25
EUPHILOMEDES SP.	0	0	0	0	0	1	0	0	0	0	0	0	0.08
CYCLOLERERIS AMERICANA	0	0	0	0	1	0	0	0	0	0	0	0	0.08
CALANOIDA, UNID.	0	0	1	0	3	0	0	0	0	0	1	0	0.42
CYCLASPIS NUBILIA	0	0	0	0	0	1	0	0	0	0	0	0	0.08
DIASTYLOPSIS TENJIS	6	3	5	7	7	15	6	8	1	0	7	4	5.75
CAMPYLASPIS SP. C	0	0	0	1	0	1	0	0	0	0	0	0	0.17
PATHYCOPEA GRANULATUS	0	0	0	0	0	0	0	0	0	0	0	1	0.08
ECOTEA SUBLITTORALIS	0	0	0	2	0	0	1	0	0	0	0	0	0.25
ERICHTHONIUS BRASILIENSIS	0	0	0	0	0	0	0	1	0	0	0	0	0.08
MFGALUROPOUS LONGIMERUS	0	0	1	0	0	0	0	0	0	0	0	0	0.08
PHOTIS SP.	3	0	0	0	0	0	0	1	0	0	0	0	0.33
PHOTIS MACHOTICA	0	0	0	0	0	1	0	0	0	0	0	0	0.08
JASSA FALCATA	1	1	0	2	0	1	0	1	0	0	0	2	0.67
SYNCHELIDIUM SP.	0	0	1	2	0	0	0	0	0	0	0	0	0.25
MONOCULODES HARTMANAE	0	0	0	0	1	0	0	0	0	0	0	0	0.08
RHEPOXYNIUS ARRONIUS	0	0	1	0	0	0	0	0	0	0	0	0	0.08
RHEPOXYNIUS RICUSPIDATUS	0	0	0	0	1	1	0	0	0	0	0	0	0.17
RHEPOXYNIUS EPISTOMUS	2	1	0	0	2	0	0	0	0	1	2	7	1.25
GAMMARIDEA, UNID.	0	0	0	2	0	0	0	0	0	0	0	0	0.17
UGYRIDES SP.A	0	0	0	0	1	0	0	0	0	0	0	0	0.08
OLIVELLA BAETICA	3	0	0	0	2	1	0	1	3	1	0	0	0.92
KURTZIELLA PLUMBEA	0	0	0	0	0	1	0	0	0	0	0	0	0.08
CYCLOSTREMELLA DALLI	0	0	0	0	0	0	0	1	0	0	0	0	0.08
ODOSTOMIA SP. E	0	0	0	0	1	0	1	0	0	0	0	0	0.17
GASTROPODA, UNID.	0	0	1	0	0	0	0	1	0	0	0	0	0.17
YCLDIA SCISSURATA	0	1	1	0	0	1	0	0	1	0	1	0	0.42
NEAEROMYA COMPRESSA	0	0	1	0	3	2	0	0	0	0	0	3	0.75
CHIONE SP.	0	1	0	0	0	0	0	0	1	0	0	0	0.17
CCOPFRELLA SURDIAPHANA	1	0	0	0	0	0	0	0	0	0	0	0	0.08
TELLINA MODESTA	1	5	2	6	4	3	2	1	3	6	1	0	2.83
MACOMA SP.	0	1	0	0	1	0	0	0	0	0	0	1	0.25
DNAX GOULDII	0	0	0	0	0	1	0	0	1	0	0	0	0.17
SILENA SICARIUS	1	0	0	0	0	0	0	0	1	0	0	0	0.17
SILVIA LUCIDA	0	1	0	0	1	0	0	0	2	0	0	0	0.33
PERIPLOMA PLANUSCULUM	0	0	0	0	0	0	2	0	0	1	0	0	0.25
PHORONIDA, UNID.	0	0	0	0	0	0	0	0	0	1	0	0	0.08
OPHIURIDEA, UNID.	0	0	0	0	0	0	0	1	0	0	0	0	0.08
HEMICHORDATA, UNID.	1	0	0	0	0	0	0	0	0	0	0	0	0.08

Table III-4. Subtidal infaunal species density (mean number per liter) by replicate, August 1979 (Cont).

STATION F3 28 August 1979

SPECIES	REPLICATES												MEAN
	1	2	3	4	5	6	7	8	9	10	11	12	
ZAOLUTUS ACTIUS	0	1	0	1	0	0	0	0	0	0	0	0	0.17
EDWARDSIA SIPUNCULOIDS	0	0	0	0	0	0	1	0	0	0	0	0	0.08
PLATYHELMINTHES, UNID.	0	0	2	0	0	0	0	0	0	0	1	0	0.25
NEMERTEA, UNID.	0	3	1	3	2	1	2	1	5	0	1	1	1.67
CARINOMA MUTABILIS	0	0	0	0	1	0	1	1	0	0	0	1	0.33
NEMATODA, UNID.	0	0	0	0	1	0	0	0	0	0	0	0	0.08
HARMOTHOE LUNULATA	0	0	1	0	0	0	0	0	0	0	0	0	0.08
HARMOTHOF PRIOPS	0	0	0	0	1	0	0	0	0	0	0	0	0.08
EGSICALION SPINOSUM	0	0	2	3	0	0	0	0	1	0	0	0	0.50
FTEONE LIGHTI	0	0	1	0	0	0	0	0	0	0	0	0	0.08
MESIONIDAE, UNID.	0	0	3	0	2	0	0	0	0	0	0	0	0.42
TYPOSYLLIS ACICULATA	0	1	0	2	0	0	1	2	3	6	2	0	1.42
MEREIS LATESCENS	0	0	0	0	0	0	0	0	0	1	0	0	0.08
MEREIS SP.	0	1	0	0	0	0	0	0	0	0	0	0	0.08
NEPHTYS CAECOIDES	0	0	0	0	1	0	0	0	0	0	0	0	0.08
NEPHTYS CORNUTA FRANCISCANA	0	0	0	0	0	0	0	0	1	1	0	0	0.17
GLYCIDAE ARMIGERA	0	0	0	1	1	0	1	0	1	1	1	0	0.50
GONIADA LITTOREA	0	3	1	0	0	3	0	0	0	0	1	0	0.67
GONIADA SP.	0	0	0	0	0	0	0	0	0	0	1	0	0.08
DIOPATRA SPLFNIDISSIMA	0	1	0	0	0	0	0	0	0	0	0	0	0.08
CAUPHIS FREMITA	0	0	0	0	0	0	1	0	0	0	0	0	0.08
NGITHRIA IRIDESCENS	0	1	0	0	0	0	0	1	0	0	0	0	0.17
LUMBRINERIS TETRAURA	0	1	1	1	1	1	1	1	0	1	0	0	0.67
LUMBRINERIS SP.	0	0	0	1	1	1	2	1	1	0	0	0	0.58
LUMBRINERIS PLATYLOHATA	0	0	0	0	1	0	0	0	0	0	0	0	0.08
ARAFELLA TRICOLOR	0	0	0	0	0	0	0	0	0	0	1	0	0.08
ERRINIIDAE, UNID.	0	0	0	0	0	0	0	1	0	0	0	0	0.08
HAPLOSCOLOPLOS ELONGATUS	0	0	0	1	0	0	0	0	0	0	0	1	0.17
SCOLOPLOS ARMIGER	0	0	0	1	1	0	0	0	0	0	0	0	0.17
TAUBERIA OCLATA	0	0	0	0	0	0	0	0	0	1	0	0	0.08
PARACONIDAE, UNID.	0	0	0	0	0	1	0	0	0	0	0	0	0.08
ACESTA CATHERINAE	0	0	1	0	4	1	2	2	0	3	0	3	1.33
ALLIA NCLANI	0	0	0	0	0	2	1	0	0	0	0	0	0.25
SPIONIDAE, UNID.	0	0	0	0	1	0	0	0	0	0	0	0	0.08
PARAPRIONOSPION PINNATA	0	1	0	0	0	1	1	1	0	0	0	0	0.33
APRIONOSPION PYGMAEUS	0	0	1	0	0	1	0	1	0	0	1	0	0.33
SPIOPHANES BOMBYX	0	0	0	1	2	0	0	0	0	0	1	1	0.42
SPIOPHANES MISSIONENSIS	0	0	0	0	0	0	0	1	1	1	1	0	0.33
SPIOPHANES BERKELEYURUM	0	0	0	0	0	0	0	0	0	1	0	0	0.08
MAGELONA SACCOLATA	0	0	0	0	0	1	0	1	0	0	0	0	0.17
SPIOCHAETOPTERUS COSTARUM	0	0	1	0	0	0	0	0	0	0	0	1	0.17
CAULLERIFLLA ALATA	0	2	0	0	0	0	1	0	0	0	0	0	0.25
CHAETAZONE SETOSA	0	1	1	0	1	1	0	1	0	0	1	0	0.50
THARYX SP.	0	0	1	1	2	3	1	0	0	2	0	0	0.83
MEDIOMASTUS AMRISETA	0	14	0	2	3	4	3	4	6	2	8	0	5.00
MEDIOMASTUS ACUTUS	0	2	0	0	0	1	1	1	0	0	2	0	0.58
ANOTOMASTUS GORDIODES	0	0	1	0	2	0	0	0	0	0	0	0	0.25
AMASTIGOS ACUTUS	0	0	0	0	2	0	1	1	0	0	0	2	0.50
ASYCHIS DISPARIDENTATA	0	0	1	0	0	0	1	0	0	0	1	0	0.25
AXIOTHFLA MURROCINCTA	0	0	0	0	0	0	0	0	0	0	0	1	0.08
AMPHARETE LABRIPS	0	1	0	0	1	0	1	0	1	0	0	0	0.33
AMPHICTEIS SCAPHORRANCHIATA	0	0	0	0	0	0	0	0	0	0	0	1	0.08
AMAEANA OCCIDENTALIS	0	1	1	0	1	0	0	1	2	0	0	0	0.50
PISTA FASCIATA	0	1	0	1	1	1	0	0	0	0	1	1	0.50
STREBLOSOMA CRASSIRRANCHIA	0	0	0	0	0	0	0	0	0	0	1	0	0.08
CHONE MOLLIS	0	0	0	0	0	0	0	0	1	0	0	0	0.08
EUCHONE INCOLOR	0	1	0	0	0	0	0	0	0	1	0	0	0.17
CYLINDROBERIDIDAE, UNID.	0	0	0	0	0	0	0	0	0	1	0	0	0.08
EUPHILOMEDES CARCHARODONTA	0	0	2	2	0	0	2	0	0	0	0	0	0.50



Table III-4. Subtidal infaunal species density (mean number per liter) by replicate, August 1979 (Cont).

STATION F3 (CONT). 28 August 1979

SPECIES	REPLICATES												MEAN
	1	2	3	4	5	6	7	8	9	10	11	12	
CSTRACODA, UNID.	1	0	0	0	0	0	0	0	0	0	0	0	0.08
RUTIDERMA ROSTRATA	0	0	2	0	0	0	0	0	0	0	0	0	0.17
PARADOXOSTOMATINAE A, UNID.	0	0	0	0	0	0	0	1	0	0	0	0	0.08
CALANOIDA, UNID.	0	0	0	0	0	0	0	0	0	1	0	0	0.08
CYCLASPIS NURILA	0	0	0	0	0	0	2	0	0	1	0	0	0.25
DIASYTLOPSIS TENUIS	1	4	4	12	4	1	1	0	5	1	7	1	3.42
GXYUROSTYLIS PACIFICA	0	0	0	0	1	1	0	0	1	2	1	0	0.50
EMOTEA SUBLITTORALIS	0	0	0	0	0	0	1	1	0	1	0	1	0.33
AMPELISCA CRISTATA	0	0	0	1	1	2	1	2	1	2	1	1	1.00
AMPELISCA COMPFESSA	0	0	0	1	0	0	1	1	0	0	0	0	0.25
ACUMINODEUTOPIUS HETERUROPIUS	0	0	0	0	0	0	0	0	0	1	2	0	0.25
RUDILEMBRIDES STENOPROPODUS	0	0	0	0	0	0	0	1	0	0	0	0	0.08
AMPHIDEUTOPIUS OCULATUS	0	0	0	0	0	0	0	1	0	0	0	0	0.08
ARGISSA HAMATIPES	0	1	0	1	0	1	0	0	1	1	0	0	0.42
CERAPUS TUMULARIS	1	6	0	0	0	0	0	1	1	0	0	1	0.83
MEGALLOPIUS LONGIMERUS	1	0	0	0	0	0	0	0	0	0	0	0	0.08
PHOTIS CALIFORNICA	0	0	0	0	1	0	0	0	0	0	0	0	0.08
ISCHYROCFRUS ANGUIPES	0	0	0	0	0	0	0	2	0	0	0	0	0.17
JASSA FALCATA	1	4	0	0	0	6	0	2	0	1	1	3	1.50
LISTRIELLA GOLETA	0	0	1	0	0	0	0	0	0	0	0	0	0.08
LISTRIELLA DIFFUSA	1	0	0	0	0	0	0	1	0	0	0	0	0.17
HIPPOMEDON DENTICULATUS	0	0	1	0	0	0	0	0	0	0	0	0	0.08
SYNCHLIDIUM SP.	1	0	0	0	1	1	1	0	0	0	1	0	0.42
MONOCULODES HARTMANAE	2	0	0	0	0	2	1	0	0	0	0	0	0.42
PHOXOCEPHALIDAE, UNID.	0	0	0	0	0	0	0	0	1	0	0	0	0.08
RHEPOXYNIUS ABRONIUS	0	0	0	1	0	1	0	0	0	0	0	0	0.17
RHEPOXYNIUS EPISTOMUS	0	2	3	5	0	3	7	4	3	1	0	3	2.17
RHEPOXYNIUS HETEROCUSPIDATLS	0	0	0	0	0	0	0	0	0	0	2	0	0.17
PARAPHOXUS STENODES	0	0	0	0	0	0	0	0	0	1	2	0	0.25
PARAPHOXUS VARIATUS	0	0	0	0	0	0	0	0	0	1	0	0	0.08
GAMMARIDEA, UNID.	0	0	0	0	1	0	2	0	0	0	2	0	0.42
CAPRELLA CALIFORNICA	0	1	0	0	0	0	0	0	0	0	0	0	0.08
CGYRIDES SP.A	0	0	0	0	0	0	0	0	1	0	1	0	0.17
ALPHEIDAE, UNID.	0	1	0	0	0	0	0	0	0	0	0	0	0.08
CALLIANASSA SP.	0	0	0	0	0	0	0	0	0	0	1	0	0.08
CANCER GRACILIS	0	0	0	0	1	0	0	0	0	0	0	1	0.17
PIANNIXA SP.	0	0	0	0	1	1	0	0	0	0	0	0	0.17
CLIVELLA HAETICA	0	1	0	0	1	1	0	1	0	0	0	0	0.33
SULCORETUSA XYSTRUM	0	1	0	0	0	0	0	0	0	2	0	0	0.25
ACTEOCINA CULCITELLA	0	0	0	0	0	1	0	0	0	0	0	0	0.08
TURRONILLA SP. E	0	0	1	0	0	1	0	0	2	0	0	0	0.33
GDUSTOMIA SP. C	0	0	0	1	0	0	0	0	0	0	0	0	0.08
GASTROPODA, UNID.	0	1	0	0	0	0	0	0	0	0	0	0	0.08
YGLDIA SCISSURATA	0	0	0	0	1	0	1	0	0	0	0	0	0.17
MODIOLUS NEGLECTUS	0	2	0	0	0	0	0	0	0	0	0	0	0.17
MYTILIDAE, UNID.	0	1	0	0	0	0	0	0	0	0	0	0	0.08
LUCINA MUTALLI	0	0	0	1	1	0	0	0	0	0	0	0	0.17
MYSELLA SP. F	0	0	0	0	0	0	0	1	0	0	0	0	0.08
NEAEROMYA COMPRESSA	0	1	1	0	0	0	0	1	0	0	0	0	0.25
CHIONE SP.	0	1	0	0	0	0	0	0	0	0	0	0	0.08
TELLINA MODESTA	0	3	1	2	0	1	0	1	1	2	2	6	1.58
MACOMA YOLDIFORMIS	0	0	0	0	0	0	0	0	0	1	0	0	0.08
MACOMA SP.	0	0	0	0	0	0	0	1	1	0	2	0	0.33
SILIQUA LUCIDA	0	1	0	1	1	0	0	0	0	1	0	0	0.33
PANDORA SP.	0	0	0	0	1	0	0	0	0	0	0	0	0.08
PELECYPODA, UNID.	0	0	1	0	0	0	0	0	0	0	0	0	0.08
CADULUS FUSIFORMIS	0	0	0	1	0	0	0	0	0	0	0	0	0.08
PHORONIDA, UNID.	0	0	0	0	0	0	1	0	0	0	0	0	0.08
HEMICHORDATA, UNID.	0	0	1	0	1	1	0	1	0	1	0	1	0.50

Table III-5. Subtidal infaunal species density (mean number per liter)  
by replicate, November 1979.

29 November, 1979

STATION A1

SPECIES	REPLICATES					MEAN
	1	2	3	4	5	
NEMERTEA, UNID.	0	0	0	0	3	0.60
CARINOMA MUTABILIS	2	1	0	0	1	0.80
MICRURA ALASKANIS	0	0	1	0	0	0.20
NEPHTYS SP.	0	1	0	0	0	0.20
GLYCERA CONVOLUTA	0	0	1	0	0	0.20
GLYCERA SP.	1	0	0	0	0	0.20
DIOPATRA SP.	0	1	0	0	0	0.20
HAPLOSCOLOPLUS ELONGATUS	0	0	0	1	0	0.20
SCOLOPLCS ARMIGER	0	2	4	0	1	1.40
PARAONIGAE, UNID.	1	2	0	0	0	0.60
ACESTA CATHERINAE	1	0	0	0	0	0.20
AFOPRIGNOSPID PYGMAEUS	3	4	3	3	23	14.60
NEPTICOMASTUS AMBISETA	0	0	0	0	1	0.20
ANASTIGCS ACUTUS	6	0	2	0	4	2.40
PECTINARIA CALIFORNIENSIS	1	0	0	0	0	0.20
AMAEANA OCCIDENTALIS	0	0	1	0	0	0.20
EUPHILOMEDES LONGISETA	2	2	2	0	0	1.20
CALANOIDA, UNID.	0	0	1	0	0	0.20
DIASTYLOPSIS TENUIS	2	3	4	0	1	2.00
LEPTOCUMA FOSSMANI	0	1	0	0	0	0.20
CHIRIPHOTIS MEGACHELIS	0	0	0	1	0	0.20
JASSA FALCATA	0	1	0	1	0	0.40
SYNCHLIDIUM SP.	1	0	0	0	0	0.20
RHEPOXYNIUS BICUSPIDATUS	2	0	0	0	0	0.40
RHEPOXYNIUS EPISTOMUS	0	1	1	1	1	0.80
GAMMARIDEA, UNID.	0	0	0	1	0	0.20
OLIVELLA RAFTICA	10	8	0	3	3	4.80
OLIVELLA RIPLICATA	0	0	1	0	0	0.20
OLIVELLA SP.	0	0	1	0	0	0.20
KURTZIELLA PLUMBFA	0	1	0	0	0	0.20
TELLINA MODESTA	4	5	5	2	1	3.40
NACOMA SP.	0	1	0	0	0	0.20

Table III-5. Subtidal infaunal species density (mean number per liter) by replicate, November 1979 (Cont).

STATION A2 29 November, 1979

SPECIES	REPLICATES												MEAN
	1	2	3	4	5	6	7	8	9	10	11	12	
NEMERTEA, UNID.	1	0	0	0	0	2	0	1	1	1	2	1	0.75
CARINOMA MUTABILIS	0	0	0	2	1	1	0	1	0	2	0	0	0.58
TYPOSYLLIS ACICULATA	0	0	0	0	1	0	0	0	0	0	0	0	0.08
GLYCERA CONVOLUTA	0	0	1	0	0	0	0	0	0	0	0	0	0.08
GONIADA LITTOREA	1	0	2	0	2	0	1	1	1	0	0	1	0.75
NCTHRIA ELEGANS	0	0	1	0	0	0	0	0	0	0	0	0	0.08
LUMBRINERIS CRUZENSIS	0	0	0	0	0	1	0	0	0	0	0	0	0.08
LUMBRINERIS TETRAURA	0	1	0	1	1	0	1	0	0	1	0	0	0.42
LUMBRINERIS SP.	1	0	1	1	0	2	0	0	0	1	0	0	0.50
HAPLOSCOLOPLOS ELONGATUS	0	0	0	0	0	0	0	0	0	1	0	0	0.08
SCOLOPLOS ARMIGER	1	0	1	1	0	0	0	0	0	0	0	0	0.25
AEDICHA PACIFICA	1	0	0	0	0	0	0	0	0	0	0	1	0.17
ACESTA CATHERINAE	2	4	4	0	1	2	4	5	0	0	2	2	2.33
PARAPHRONOSPID PINNATA	1	1	0	1	0	2	1	0	0	1	1	1	0.75
APOPRIONOSPID PYGMAEUS	0	0	0	0	1	0	0	1	0	0	0	0	0.17
SPIOPHANES ROMBYX	0	4	1	1	1	0	0	0	0	2	0	0	0.75
SPIOPHANES MISSIOWENSIS	1	0	0	1	0	0	0	0	0	1	0	0	0.25
SPIOPHANES SP.	0	1	0	0	0	0	1	0	0	0	0	0	0.17
SPIOPHANES BERKELEYURUM	1	0	0	0	0	0	0	0	0	0	0	0	0.08
MAGELONA SACCOLATA	1	0	0	0	0	0	0	0	0	0	0	0	0.08
CHAETZONE SFTUSA	2	0	0	0	0	0	1	0	1	0	0	0	0.33
MEDIOMASTUS AMRISKA	3	13	13	17	4	14	11	1	7	2	0	1	7.17
MEDIOMASTUS ACUTUS	1	0	1	0	0	0	1	0	0	0	0	0	0.25
MEDIOMASTUS CALIFORNIENSIS	0	1	2	2	0	0	1	0	0	0	0	0	0.50
MEDIOMASTUS SP.	0	0	0	0	0	1	0	0	0	1	0	0	0.17
ANASTIGOS ACUTUS	2	1	2	15	1	3	4	0	0	0	0	2	2.50
MALDANIDAE, UNID.	0	0	0	0	0	0	0	0	0	0	0	1	0.08
ASYCHIS DISPARIDENTATA	0	0	0	0	0	0	1	0	0	1	0	0	0.17
PFCINARIA CALIFORNIENSIS	0	1	0	0	0	0	0	0	0	0	1	0	0.17
STRELOSOMA CRASSIBRANCHIA	0	0	0	0	0	0	0	1	0	0	0	0	0.08
GELFINGIA MISAKIANA	0	0	0	0	1	0	0	0	0	0	0	0	0.08
ELPHILOMERES LONGISETA	0	0	0	1	0	0	0	0	0	0	0	0	0.08
ELPHILOMERES CARCHARODONTA	0	0	0	0	0	0	0	2	0	0	0	0	0.17
ELPHILOMERES SP.	1	0	0	0	0	0	0	0	0	0	0	0	0.08
CALANCOIDA, UNID.	0	0	0	0	0	0	0	0	0	0	1	0	0.08
CYCLASPIS NURILA	0	0	0	0	1	0	0	0	0	0	0	0	0.08
ACHTICOLURUS OCCIDENTALIS	1	0	0	0	0	0	0	0	0	0	0	0	0.08
DIASTYLOPSIS TENUIS	2	0	1	0	2	1	5	2	1	0	1	0	1.25
EXYURCOSTYLIS PACIFICA	0	0	0	0	1	0	0	0	0	0	0	0	0.08
AMPELISCA CRISTATA	0	0	0	1	0	0	0	0	0	0	0	0	0.08
AMPELISCA COMPRESSA	0	0	0	0	1	0	1	1	0	0	2	0	0.42
MEGALUROPIUS LONGIMERIS	0	0	0	0	0	0	1	0	0	0	0	0	0.08
JASSA FALCATA	2	1	3	0	0	6	0	0	0	0	0	1	1.08
RHEPOXYNIUS EPISTOMUS	0	0	0	1	1	1	1	2	0	1	0	1	0.67
ISOCHFLES PILOSUS	0	0	0	0	0	0	1	0	0	0	1	0	0.17
CANCER GRACILIS	0	0	0	0	0	0	0	1	0	0	0	0	0.08
NASSARIUS PERPINGUIS	2	0	0	0	0	0	0	0	0	0	0	0	0.17
CLIVELLA HAETICA	1	0	0	0	1	0	0	0	0	0	0	0	0.17
CLIVELLELLA CYLINDRICA	0	0	1	0	0	0	0	0	0	0	0	0	0.08
YCLDIA SCISSURATA	0	0	0	1	0	1	0	1	0	0	0	0	0.25
MYSELLA GOLISCHI	0	0	0	0	0	0	1	0	0	0	0	0	0.08
COOPERELLA SURDIAPHANA	0	0	1	0	0	0	0	0	0	0	0	0	0.08
TELLINA MODESTA	0	0	0	3	0	1	0	0	0	0	0	1	0.42
CADULUS FUSIFORMIS	0	0	0	0	0	0	0	0	0	1	0	0	0.08
GLUTTIDIA ALBIDA	0	0	0	0	0	0	0	1	0	1	0	0	0.17
HFMICHOORDATA, UNID.	0	1	1	0	0	0	0	0	1	0	0	0	0.25

Table III-5. Subtidal infaunal species density (mean number per liter) by replicate, November 1979 (Cont).

STATION A3 29 November, 1979

SPECIES	REPLICATES												MEAN
	1	2	3	4	5	6	7	8	9	10	11	12	
ISOEDWARDIA SP. A	0	0	0	0	0	1	0	0	0	0	0	1	0.17
PLATYHELMINTHES, UNID.	0	0	0	0	1	0	0	0	0	0	1	0	0.17
NEMERTEA, UNID.	1	1	0	1	1	1	1	0	1	0	3	3	1.08
CARINOMA MUTABILIS	0	0	0	0	0	1	0	0	0	0	1	0	0.17
HARMOTHOE LUNULATA	0	0	0	0	0	0	0	0	1	1	1	0	0.25
HARMOTHOE PRIOPS	0	0	0	0	0	0	0	0	1	0	0	0	0.08
EUSIGALION SPINGSUM	0	0	2	2	0	0	0	0	0	0	0	1	0.42
ANAITIDES WILLIAMSII	0	0	0	0	0	0	0	0	0	0	1	0	0.08
ETEONE LIGHTI	0	0	0	0	0	0	1	0	0	0	0	0	0.08
GYPTIS BREVIPALPA	0	0	1	0	0	0	0	0	0	0	0	0	0.08
TYPOSYLLIS ACICULATA	0	1	1	0	0	0	0	0	0	0	0	0	0.17
NEREIS SP.	0	0	0	2	0	0	0	0	1	0	0	0	0.25
NEPHTYS CAECOIDES	0	0	0	0	0	1	0	0	0	0	0	0	0.08
NEPHTYS CORNUTA FRANCISCANA	1	0	0	0	0	0	0	1	0	0	1	0	0.25
GCNIADA LITTOREA	1	4	2	0	0	5	2	2	1	1	3	0	1.75
GCNIADA SP.	0	0	0	0	0	0	1	0	0	0	0	0	0.08
CAUPHIDAE, UNID.	0	0	0	0	0	0	0	0	1	0	0	0	0.08
ACTHRIA SP.	0	0	0	0	0	0	0	0	0	1	0	0	0.08
ACTHRIA IRIDESCENS	0	0	0	0	0	2	0	0	0	0	0	0	0.17
LUMBRINERIS TETRAURA	0	0	0	0	0	0	1	0	1	4	1	6	1.08
LUMBRINERIS SP.	4	3	5	1	3	2	0	0	0	0	0	0	1.50
ARABEFLA INICOLOR	0	0	0	0	0	0	0	0	1	0	0	0	0.08
PARAGNIDAE, UNID.	0	0	1	0	0	0	0	0	0	0	0	0	0.08
ACESTA CATHERINAE	1	3	0	1	1	2	0	2	0	0	0	3	1.08
SPIONIDAE, UNID.	2	0	0	0	0	0	0	0	0	0	0	0	0.17
PRIONOSPION CIRCIFERA	1	0	0	0	0	0	0	0	0	0	0	0	0.08
PARAPRIONOSPION PINNATA	1	0	1	1	0	0	1	0	0	0	3	0	0.58
APOPRIONOSPION PYGMAEUS	0	0	1	0	0	0	0	0	0	0	0	1	0.17
SPIOPHANES BOMBYX	0	1	2	1	0	0	1	0	1	0	0	1	0.58
SPIOPHANES MISSIONENSIS	0	1	0	0	0	1	0	0	0	0	1	1	0.33
SPIOPHANES SP.	0	0	0	0	0	0	0	0	0	0	0	1	0.08
MAGELONA SACCULATA	0	0	0	0	0	0	0	1	0	0	0	0	0.08
PCECILLOCHAETUS JOHNSONI	0	0	0	0	0	0	0	0	0	0	0	1	0.08
CHAETOZONE SETOSA	5	2	0	0	0	0	1	2	1	1	1	2	1.25
THARYX SP.	0	0	0	0	0	0	0	0	0	0	0	1	0.08
MEDIOMASTUS AMBISETA	3	9	2	0	0	1	3	3	0	3	2	2	2.33
MEDIOMASTUS ACUTUS	0	2	0	0	0	0	0	2	0	1	1	0	0.50
MEDIOMASTUS CALIFORNIENSIS	0	0	0	0	0	0	0	0	1	0	0	0	0.08
MEDIOMASTUS SP.	0	0	0	0	1	0	0	0	0	0	0	0	0.08
ANOTOMASTUS GORDIODES	0	0	0	0	0	0	0	0	0	0	0	1	0.08
AMASTIGOS ACUTUS	0	0	0	0	0	0	0	0	0	0	1	1	0.17
ASYCHIS DISPARIDENTATA	0	0	0	0	0	2	0	1	0	0	0	1	0.33
AXIOHELLA RUHRDINCINCTA	0	0	0	0	0	0	0	0	0	0	0	1	0.08
OKENIA COLLARIS	0	0	0	0	0	0	0	0	0	0	1	0	0.08
AMPHARETIDAE, UNID.	0	0	0	0	0	0	0	1	0	0	0	0	0.08
AMPHICTEIS SCAPHOBRANCHIATA	0	0	0	0	1	0	0	1	0	0	0	0	0.17
TEREHELIDAE, UNID.	0	1	0	0	0	0	0	0	0	0	0	0	0.08
AMAEANA OCCIDENTALIS	0	0	0	1	0	0	0	0	0	0	0	0	0.08
PISTA FASCIATA	0	0	0	0	1	1	0	0	0	0	0	3	0.42
POLYCIRRUS SP.	0	0	0	0	0	0	2	0	0	0	0	0	0.17
STRERLOSOMA CRASSIRRANCHIA	0	1	0	1	0	0	0	0	0	0	0	0	0.17
SABELLIDAE, UNID.	0	0	0	0	0	0	0	0	0	1	0	0	0.08
EUCHOE INCOLOR	1	0	0	1	0	0	0	0	0	0	0	1	0.25
CYLINDROGLYBERIDIDAE, UNID.	0	1	1	0	0	0	0	0	0	0	1	0	0.25
ELPHILOMIDES CARCHARODONTA	1	0	2	2	0	0	0	1	1	1	0	0	0.67

Table III-5. Subtidal infaunal species density (mean number per liter) by replicate, November 1979 (Cont).

STATION A3 (CONT). 29 November, 1979

SPECIES	REPLICATES												MEAN
	1	2	3	4	5	6	7	8	9	10	11	12	
RUTIDFRMA ROSTRATA	1	0	0	0	1	1	0	0	0	0	0	0	0.25
CYCLOLEBERIS AMERICANA	0	0	0	0	0	0	0	0	0	1	0	0	0.08
MARPACTICOIDA, UNID.	0	0	0	0	0	0	0	0	0	0	1	0	0.08
CALANOIDA, UNID.	1	0	0	0	0	0	0	0	0	0	1	0	0.17
NEBALIA SP.	0	0	0	0	0	0	0	0	0	1	1	0	0.17
CUMACEA, UNID.	0	0	0	0	0	0	0	0	1	0	0	0	0.08
CYCLASPIS SP. C	0	0	0	2	1	0	0	0	0	0	0	0	0.25
DIASTYLOPSIS TENUIIS	0	1	0	0	0	1	0	2	1	3	2	0	0.43
HEMILAMPROPS CALIFORNICA	0	2	0	0	0	1	0	0	1	0	0	0	0.33
OXYUROSTYLIS PACIFICA	0	1	0	0	0	0	1	0	0	0	0	0	0.17
LEPTOSTYLIS SP. A	0	0	0	0	0	0	0	1	0	0	0	0	0.08
ECOTEA SUBLITTORALIS	0	0	0	0	0	0	0	0	3	0	0	0	0.25
AMPELISCA CRISTATA	1	1	2	1	0	1	1	3	0	1	1	4	1.33
AMPELISCA COMPRESSA	0	1	0	1	0	0	0	0	0	0	0	0	0.17
ACUMINODEUTOPUS HETERUMOPUS	0	2	2	0	1	0	0	1	1	1	0	0	0.67
RUDILEMYRIDES STENOPROPODUS	0	0	0	0	0	0	2	0	0	0	0	0	0.17
AMPHIDEUTOPUS OCVLATUS	0	1	0	0	0	1	0	1	0	0	0	0	0.25
ERICTHONIUS BRASILIENSIS	0	0	0	1	0	0	0	0	0	1	0	1	0.25
MEGALUROPOUS LONGIMERIS	0	0	0	0	1	0	0	0	0	0	0	0	0.08
PHOTIS SP.	0	0	0	0	0	0	0	1	0	0	0	0	0.08
PHOTIS CALIFORNICA	0	0	0	0	0	0	0	0	2	0	0	0	0.17
JASSA FALCATA	0	0	0	2	0	0	0	2	1	0	1	3	0.75
MICROJASSA LITOTES	0	0	1	0	0	0	0	0	0	0	0	0	0.08
PACHYNUS HARNARDI	0	0	1	0	0	0	0	0	0	0	0	0	0.08
SYNCHMELIDIUM SP.	3	2	0	1	1	0	2	0	3	1	1	0	1.17
RHEPOXYNIUS ARRONIUS	0	1	0	0	1	0	1	1	1	0	1	0	0.50
RHEPOXYNIUS EPISTOMUS	1	2	0	1	1	1	0	1	4	2	5	1	1.58
STENOThOE ESTACOLA	0	0	0	0	0	0	0	1	0	0	0	0	0.08
GAMMARIOEA, UNID.	0	0	0	1	0	0	0	1	0	0	0	0	0.17
DEUTELLA CALIFORNICA	0	0	0	1	0	0	0	0	0	0	0	0	0.08
CAPRELLA CALIFORNICA	0	0	0	2	0	0	0	0	0	0	0	0	0.17
CALLIANASSA SP.	0	0	0	0	0	0	0	1	0	0	0	1	0.17
NEVERTIA RECLUZIANA	0	0	0	0	0	0	0	0	0	0	1	0	0.08
NASSARIUS PERPINGUIS	0	0	0	0	0	0	1	0	0	0	0	1	0.17
OLIVELLA BAETICA	1	2	0	3	0	0	0	1	2	1	0	0	0.83
KURTZIELLA PLUMBEA	0	0	0	0	0	0	1	0	0	0	0	0	0.08
SULCURETUSA XYSTRUM	0	0	0	0	0	0	0	0	1	0	0	0	0.08
ACTEOCINA HARPA	0	0	0	1	1	0	0	0	2	0	0	0	0.33
TURBONILLA SP. E	0	0	0	0	0	0	2	0	0	0	0	0	0.17
TURBONILLA SP. L	0	0	0	0	0	0	0	0	3	0	0	0	0.25
YCLDIA SCISSURATA	0	0	1	0	0	0	0	0	0	0	0	0	0.08
MCIDIOLUS SP.	0	0	0	0	0	1	0	0	0	0	0	0	0.08
PARVILUCINA TENUISCUPTA	0	0	0	0	0	0	0	0	0	1	0	0	0.08
MYSELLA SP. F	0	0	0	0	0	0	0	0	2	0	0	0	0.17
RHAMPHIDONTA RETIFERA	0	0	0	0	0	0	0	0	3	0	0	0	0.25
COOPERELLA SUBDIAPHANA	0	0	0	0	0	1	0	0	0	0	0	0	0.08
TELLINA MODESTA	1	0	0	0	0	1	0	0	2	0	1	0	0.42
MACOMA YOLDIFORMIS	0	0	0	0	1	0	0	0	0	0	0	0	0.08
PERIPLOMA DISCUS	0	0	0	0	0	0	0	1	0	0	0	0	0.08
PHORONIDA, UNID.	0	0	1	0	0	0	1	0	0	0	0	0	0.17
PHORONIS SP.	0	0	0	0	0	1	1	0	1	0	0	0	0.25
OPHIUROIDEA, UNID.	0	0	0	0	0	0	0	1	0	0	0	0	0.08
HEMICHORDATA, UNID.	0	0	0	0	1	0	0	0	0	0	0	0	0.08

Table III-5. Subtidal infaunal species density (mean number per liter)  
by replicate, November 1979 (Cont).

28 November, 1979

STATION B1

SPECIES	REPLICATES					MEAN
	1	2	3	4	5	
NEMERTEA, UNID.	0	0	1	0	1	0.40
CARINOMA MUTABILIS	0	1	2	0	0	0.60
MICRURA ALASKANSIS	0	0	0	1	0	0.20
NEPHTYS CAECOIDES	0	0	1	0	0	0.20
GLYCFERA CONVOLUTA	0	1	0	0	0	0.20
SCOLOPLOS ARMIGER	0	1	4	1	0	1.20
CISPID UNCINATA	0	0	0	0	1	0.20
PRIONOSPID CIRRIFERA	0	1	0	0	0	0.20
APOPRIONOSPID PYGMAEUS	6	1	10	3	8	5.60
NOTOMASTUS TENUIS	0	1	1	0	0	0.40
AMASTIGOS ACUTUS	3	0	2	1	3	1.80
CKENIA COLLARIS	2	0	0	0	0	0.40
PECTINARIA CALIFORNIFENSIS	0	1	0	0	0	0.20
FUPHILOMEDES LONGISETA	1	2	3	0	2	1.60
CUMACEA, UNID.	0	0	1	0	0	0.20
DIASTYLCPHIS TENUIS	3	0	1	1	1	1.20
CAMPYLASPIS SP. C	1	0	0	0	0	0.20
LEPTOCUMA FORSMANI	0	0	0	1	1	0.40
ECHAUSTORIUS WASHINGTONIANUS	0	1	3	1	0	1.00
JASSA FALCATA	0	3	0	0	1	0.80
RHEPOXYNIUS HICUSPIDATUS	1	6	7	3	1	3.60
RHEPOXYNIUS EPISTOMUS	6	1	11	1	1	4.00
STENOTMOCIDAE, UNID.	0	1	0	0	0	0.20
TIRON THOPAKIS	0	1	0	0	0	0.20
GAMMARIDAE, UNID.	0	0	0	0	1	0.20
CLIVELLA HAETICA	1	0	0	0	0	0.20
TELLINA MODESTA	1	0	2	1	0	0.80

Table III-5. Subtidal infaunal species density (mean number per liter)  
by replicate, November 1979 (Cont).  
STATION R2 28 November, 1979

SPECIES	REPLICATES												MFAN
	1	2	3	4	5	6	7	8	9	10	11	12	
NEMERTEA, UNID.	0	0	0	4	5	1	2	2	1	1	0	0	1.33
CARINOMA MUTABILIS	1	0	2	0	2	0	2	1	1	0	5	1	1.25
HARMOTHCE LUNULATA	0	0	0	0	0	0	0	0	0	0	0	1	0.08
ANATIDES WILLIAMSI	0	0	0	0	1	0	0	0	0	0	0	0	0.08
EUFONE LIGHTI	0	0	0	0	0	0	0	0	1	0	0	0	0.08
GYPTIS BREVIPALPA	1	0	0	0	0	0	0	0	0	0	0	0	0.08
NEPHTYS CAECUIDES	0	1	0	0	0	0	0	0	0	0	0	1	0.17
NEPHTYS CORNUTA FRANCISCANA	1	0	0	0	0	0	0	1	0	0	0	0	0.17
SPHAERODOROPSIS SPHAERULIFER	1	0	0	0	0	0	0	0	0	0	0	0	0.08
GLYCERA CONVOLUTA	0	0	0	0	0	0	1	0	0	0	0	0	0.08
GONIADA LITTOREA	0	1	1	0	0	1	0	1	0	1	0	0	0.42
LUMBRINERIS TETHYRA	0	0	2	0	0	0	1	0	0	0	1	0	0.33
LUMBRINERIS SP.	0	0	0	0	0	0	0	0	0	0	1	0	0.08
HAPLUSCLOPLOS ELONGATUS	0	0	1	0	0	0	1	1	0	0	0	0	0.25
SCOLOPLOS ARMIGER	1	0	1	0	2	1	0	1	1	0	1	0	0.67
PARANELLA PLATYRANCHIA	0	0	0	0	0	0	0	0	0	1	2	0	0.25
AEDICIRA PACIFICA	0	1	0	1	0	0	0	0	1	0	0	0	0.25
ACESTA CATHERINAE	2	0	0	9	4	4	1	1	0	0	1	1	1.92
ACESTA SP.	0	0	0	1	0	0	0	0	0	0	0	0	0.08
PRIONOSPIO CIRRIFERA	1	1	2	0	1	1	0	0	0	0	0	0	0.50
PARAPRIONOSPIO PINNATA	0	0	0	0	0	0	1	0	1	1	0	0	0.25
APRIONOSPIO PYGMAEUS	3	2	1	1	0	1	0	2	0	0	6	2	1.50
SPIOPHANES BOMBYX	0	2	2	0	0	4	1	1	3	1	2	0	1.33
SPIOPHANES MISSIONENSIS	0	0	0	1	1	1	0	0	0	0	0	0	0.25
SPIOPHANES SP.	2	0	1	0	0	0	0	0	0	0	0	0	0.25
MAGELONA SACCOLATA	0	0	0	0	0	0	0	0	1	2	0	0	0.25
SPIOCHAETOPTERUS COSTARUM	0	0	0	0	0	0	0	0	1	0	0	0	0.08
CHAETONH SETOSA	0	0	0	0	1	0	2	0	1	0	0	0	0.33
MEDIOMASTUS AMBISFTA	0	1	0	0	5	3	0	1	1	0	0	1	1.00
MEDIOMASTUS CALIFORNIENSIS	0	0	0	0	0	1	0	0	0	0	0	0	0.08
MEDIOMASTUS SP.	0	0	0	0	0	1	0	0	0	0	0	0	0.08
AMASTIGUS ACUTUS	12	8	9	11	32	18	8	88	106	58	45	65	38.33
AXIOHELLA RUBROCINCTA	0	0	1	0	0	0	0	0	0	0	0	0	0.08
PECTINARIA CALIFORNIENSIS	0	1	0	0	1	1	1	0	0	0	0	0	0.33
AMPHARETE LARROPS	0	0	0	0	0	0	0	0	1	0	0	0	0.08
AMAEANA OCCIDENTALIS	0	0	1	1	0	0	0	0	0	1	0	0	0.25
CYLINDROGLFRERIDIAE, UNID.	0	0	0	0	0	0	1	0	0	0	1	0	0.17
EUPHILOMEDES LONGISETA	0	3	0	0	0	0	1	0	0	1	0	0	0.42
EUPHILOMEDES CARCHARODONTA	1	0	0	0	0	0	1	0	0	0	0	0	0.17
EUPHILOMEDES SP.	1	0	0	0	0	0	0	0	0	0	0	0	0.08
HARPACTICOIDA, UNID.	0	0	0	0	0	0	0	1	0	0	0	0	0.08
CYCLASPIS NURILA	1	0	1	0	0	0	0	0	0	0	0	0	0.17
CYCLASPIS SP. C	0	1	0	0	0	0	0	0	0	0	0	0	0.08
ANCHICOLURUS OCCIDENTALIS	1	0	0	0	0	0	0	0	0	0	0	0	0.08
DIASTYLOPSIS TENNIS	1	2	1	0	1	1	0	0	0	0	1	0	0.58
HEMILAMPHOPS CALIFORNICA	1	0	0	1	0	0	0	0	1	0	0	1	0.33
CAPPYLASPTIS SP. C	0	0	0	0	0	1	0	0	0	0	1	0	0.17
GYRURSTYLIS PACIFICA	0	0	1	0	0	0	0	0	0	0	0	0	0.08
BATHYCOPEA GRANULATUS	0	0	0	0	0	0	0	0	0	1	0	0	0.08
ECATEA SUBLITTORALIS	2	1	0	0	0	2	0	0	0	0	0	0	0.42
MUNNA URUQUITA	0	0	0	0	1	0	0	0	1	0	0	0	0.17
ARGISSA HAMATIPES	0	0	0	0	0	0	0	0	1	1	0	1	0.25
COROPHIUM SP.	0	1	0	0	0	0	0	0	0	0	0	0	0.08
MEGALURCPUS LONGIMERUS	1	0	0	0	0	1	0	1	0	1	1	0	0.42
PHOTIS SP.	0	1	0	0	1	0	1	1	0	0	1	0	0.42
PHOTIS CONCHICOLA	1	0	0	0	0	0	0	0	0	0	0	0	0.08
PHOTIS LACIA	0	0	0	0	0	1	0	0	0	0	1	0	0.17
JASSA FALCATA	1	1	1	0	1	0	0	1	0	0	0	0	0.42
MONOCULODES HARTMANAE	0	0	0	0	0	0	0	1	0	0	0	0	0.08
RHEPOXYNIUS ABRUMIUS	0	0	0	0	0	0	1	0	0	0	0	0	0.08
RHEPOXYNIUS RICUSPIDATUS	2	1	0	0	0	1	0	3	0	0	0	0	0.58
RHEPOXYNIUS EPISTOMUS	1	1	0	0	1	1	0	1	1	0	1	3	0.83
PARAPHOXUS STENODES	0	0	0	0	0	0	0	0	0	1	0	0	0.08
TIRON TROPAXIS	1	0	0	0	0	2	0	6	3	4	4	0	1.67
CAPRELLA SP.	0	0	0	0	1	0	0	0	0	0	0	0	0.08
EGYRIDES SP. A	1	0	0	1	0	2	0	0	0	0	0	0	0.33
BALCIS OLDROYDI	0	0	0	0	0	0	1	0	0	0	0	0	0.08
CLIVELLA BAETICA	1	1	0	1	5	9	2	1	0	1	0	1	1.83
KURTZIELLA PLUMBREA	0	0	0	0	0	0	1	0	0	1	0	0	0.17
MYSELLA PEDROANA	0	0	0	0	0	0	0	0	0	0	1	0	0.08
TPELLIA MODESTA	2	1	2	0	1	0	0	1	4	1	1	1	1.17
YACOMA SP.	0	0	0	1	0	1	0	0	0	0	0	0	0.17
PERIPLOMA DISCUS	0	0	0	0	0	1	0	0	0	0	0	0	0.08
AXIOGNATHUS PUGETANA	0	0	0	1	0	0	0	0	0	0	0	0	0.08

Table III-5. Subtidal infaunal species density (mean number per liter) by replicate, November 1979 (Cont).

STATION B3 28 November, 1979

SPECIES	REPLICATES												MEAN
	1	2	3	4	5	6	7	8	9	10	11	12	
ISOEDWARDSIA SP. A	0	1	0	0	0	0	0	0	0	0	0	1	0.17
EDWARDSIA SIPUNCULOIDES	0	0	0	0	0	0	0	0	0	0	0	1	0.08
PLATYHELMINTHES, UNID.	0	0	2	0	0	0	0	0	0	0	1	1	0.33
NEMERTEA, UNID.	0	0	0	2	1	1	2	0	0	0	1	1	0.67
PARANEMERTES SP. A	0	0	0	0	0	0	0	1	0	0	0	0	0.08
NEMATODA, UNID.	0	0	1	0	1	0	0	0	0	0	0	0	0.17
SIGALIONIDAE, UNID.	0	0	0	0	0	0	0	0	0	0	0	1	0.08
FUSIGALION SPINOSUM	0	0	0	2	0	0	0	0	0	1	0	1	0.33
FEDONE ALBA	0	0	1	0	0	0	0	0	0	0	0	0	0.08
EUMIDA RIFOLIATA	1	0	0	0	0	0	0	0	0	0	0	0	0.08
TYPOSYLLIS ACICULATA	0	0	1	0	0	0	0	0	0	0	1	2	0.33
NEREIS PROCERA	2	0	0	0	0	0	0	0	0	0	0	0	0.17
NEREIS SP.	0	0	0	0	0	0	0	0	1	0	0	0	0.08
NEPHTYS CAECOIDES	0	0	0	1	0	0	0	0	0	0	0	0	0.08
NEPHTYS CORNUTA FRANCISCANA	0	0	1	0	0	0	1	1	0	1	0	0	0.33
GLYCIDAE ARMIGERA	1	0	0	0	0	0	0	0	0	0	0	0	0.08
GOBIADA LITTOREA	1	2	0	2	2	0	2	3	1	2	2	0	1.42
NCTHRIA IRIDESCENS	0	0	0	1	0	0	0	0	0	0	0	0	0.08
LUMBRINERIS TETRAURA	0	3	6	1	0	0	0	6	1	2	3	0	1.83
LUMBRINERIS SP.	0	0	0	2	1	0	1	1	0	0	1	2	0.67
ACESTA CATHETINAE	0	0	1	0	0	0	0	0	0	0	0	0	0.08
PRIONOSPIO CIRRIFERA	0	0	0	0	1	1	0	0	0	0	1	0	0.25
PARAPRIONOSPIO PILATA	0	1	0	1	2	0	0	0	0	0	0	0	0.33
APOPRIONOSPIO PYGMAEUS	0	0	1	0	0	0	0	2	0	0	0	0	0.25
SPIOPHANES BOMBYX	0	0	0	0	0	1	0	0	0	0	0	0	0.08
SPIOPHANES MISSIONENSIS	0	0	0	0	0	0	0	0	0	1	0	0	0.08
SPINOCHAETOPTERUS COSTANUM	0	0	0	0	0	0	0	0	1	0	0	0	0.08
CHAETOPUS SETOSA	0	0	3	1	2	0	1	1	0	1	1	1	0.92
THARYX SP.	1	0	1	0	0	0	2	1	0	0	0	0	0.42
COSSURA CANDIDA	0	1	0	0	0	0	0	2	0	0	0	0	0.25
CAPITELLIDAE, UNID.	1	0	0	0	0	0	0	0	0	0	0	0	0.08
MEDIOMASTUS AMHISETA	5	0	7	0	2	9	7	9	1	1	0	1	3.08
MEDIOMASTUS ACUTUS	0	1	0	0	0	0	1	1	0	0	1	0	0.33
MEDIOMASTUS CALIFORNIFENSIS	1	1	0	0	0	0	0	0	0	0	0	0	0.17
ANOTOMASTUS GORDIODES	0	0	0	1	0	0	0	0	0	0	0	1	0.17
AMASTIGOS ACUTUS	1	0	0	0	1	0	0	0	0	0	0	0	0.17
ASYCHIS DISPARIDENTATA	0	0	0	0	1	0	1	0	0	0	2	0	0.33
AMAEANA OCCIDENTALIS	1	0	0	0	1	0	0	0	0	0	1	0	0.25
LCIMIA MEDUSA	0	0	0	0	0	0	0	0	0	0	1	0	0.08
PISTA FASCIATA	0	1	0	0	0	1	1	0	0	0	0	0	0.25
EUCHONE INCOLOR	0	0	0	0	1	1	0	0	0	1	0	0	0.25
CYLINDROLEBERIDIDAE, UNID.	0	0	0	0	0	0	0	0	0	0	0	1	0.08
RUTIDERMA ROSTRATA	1	0	0	0	0	0	0	0	0	0	0	0	0.08
DIASTYLOPSIS TENNIS	0	1	1	0	1	1	0	2	2	1	0	0	0.75
HEMILAMPROPS CALIFORNICA	0	0	0	0	0	0	0	1	0	1	0	1	0.25
OXYUROSTYLIS PACIFICA	0	0	0	1	0	0	0	0	0	1	0	0	0.17
ECOTEA SURLITTORALIS	0	0	0	0	0	0	0	0	0	2	0	0	0.17
AMPELISCA CRISTATA	0	0	1	0	1	1	0	1	2	1	0	1	0.67
AMPELISCA COMPRESSA	0	0	0	0	0	0	0	0	0	1	0	0	0.08
ACUMINODEUTOPUS METEOROPUS	0	0	2	2	0	0	0	0	0	1	0	0	0.42
RODILEMNOIDES STENOPROPODUS	0	1	1	0	0	0	0	0	0	0	0	0	0.17
AMPHIDUTOPUS OCLATUS	0	0	0	0	1	0	0	0	0	0	0	0	0.08
ARGISSA HAMATIPES	1	0	0	0	0	0	0	0	0	0	0	0	0.08
JASSA FALCATA	0	0	2	0	1	0	0	0	0	0	0	0	0.25
HIPPOMEDON SP.	0	1	0	0	0	0	0	0	0	0	0	0	0.08



Table III-5. Subtidal infaunal species density (mean number per liter) by replicate, November 1979 (Cont).

STATION B3 (CONT). 28 November, 1979

SPECIES	REPLICATES												MEAN
	1	2	3	4	5	6	7	8	9	10	11	12	
PACHYANUS BARNARDI	0	0	0	0	0	0	0	1	3	0	0	0	0.33
SYNCHELIDIUM SP.	1	2	0	2	0	0	0	1	3	1	0	4	1.17
MGNOCULODFS HARTMANAE	0	0	0	0	0	0	0	0	0	1	0	1	0.17
PHOXOCEPHALIDAE, UNID.	0	0	0	0	0	0	0	0	0	0	0	1	0.08
PARAPHOXUS SP.	0	0	0	0	0	0	0	0	1	0	0	0	0.08
RHEPOXYNIUS EPISTOMUS	2	1	1	1	1	0	1	2	0	1	0	0	0.83
PARAPHOXUS VARIATUS	2	0	0	1	0	0	1	0	0	0	0	0	0.33
CGYRIDES SP.A	0	2	0	0	0	0	0	0	0	0	1	0	0.25
PINNIXA SP.	1	0	0	0	0	0	0	0	1	0	1	0	0.25
EPITONIUM CALIFORNICUM	1	0	0	0	0	0	0	0	0	0	0	0	0.08
NEVERITA RECLUZIANA	0	0	0	0	0	0	1	0	0	0	0	0	0.08
OLIVELLA BAETICA	0	0	0	0	0	0	0	1	1	0	0	0	0.17
RICTAXIS PUNCTUCAELATUS	0	0	0	0	0	0	1	0	0	0	0	0	0.08
ACTEONINA HARPA	0	0	0	0	0	0	1	0	0	0	0	0	0.08
CYLICHA NA DIEGENSIS	0	0	0	0	0	0	0	0	1	0	0	0	0.08
TURRONILLA SP. F	0	0	0	1	0	0	0	1	0	0	0	0	0.17
TURRONILLA SP. J	0	0	0	0	0	0	0	0	0	0	0	1	0.08
TURRONILLA SP. L	0	1	0	0	0	0	1	0	0	0	0	0	0.17
YOLDIA SCISSURATA	0	0	1	0	0	0	0	0	0	0	0	0	0.08
MCDIOLUS NEGLICTUS	0	0	0	1	0	0	0	0	0	0	0	0	0.08
MYTILIDAE, UNID.	0	0	1	0	0	0	0	0	0	0	0	0	0.08
PARVILUCINA TENUSCULPTA	0	1	0	0	0	0	0	0	0	0	1	0	0.17
LUCINOMA ANNULATA	0	0	0	0	1	0	0	0	0	0	0	0	0.08
MYSHELLA PEDROANA	1	0	0	0	0	0	2	0	0	0	0	0	0.25
MYSHELLA GRIPPI	0	0	0	0	0	0	0	0	0	0	1	0	0.08
COOPERELLA SURDIAPHANA	0	0	0	1	0	0	0	0	0	0	0	0	0.08
TELLINA MODESTA	0	2	3	0	0	1	0	1	1	1	2	2	1.08
MACOMA SP.	0	0	0	0	1	0	0	0	0	0	0	0	0.08
PERIPLOMA DISCUS	0	1	0	1	0	0	0	0	1	0	0	1	0.33
CAULUS FUSIFORMIS	0	0	0	0	0	1	0	0	0	0	0	0	0.08
PHORONIDA, UNID.	0	0	0	0	0	1	1	0	1	0	0	0	0.25
VICTORELLA ARGILLA	1	0	0	0	0	0	0	0	0	0	0	0	0.08
GLOTTIDIA ALBIDA	0	1	0	0	0	0	0	0	1	0	0	0	0.17
OPHIUROIDEA, UNID.	0	0	0	1	1	0	0	0	0	1	0	1	0.33
HEMICHORDATA, UNID.	0	1	0	1	0	1	2	1	1	1	1	1	0.83

Table III-5. Subtidal infaunal species density (mean number per liter)  
by replicate, November 1979 (Cont).

28 November, 1979

STATION C1

SPECIES	REPLICATES					MEAN
	1	2	3	4	5	
AMERTEA, UNID.	2	1	1	0	1	1.00
CARINOMA MUTABILIS	1	0	0	0	0	0.20
FUSIGALION SPINOSUM	0	0	0	0	1	0.20
GYPTIS BREVIPALPA	0	1	0	0	0	0.20
NEPHTYS CAECOTIDES	0	0	0	0	1	0.20
LUMBRINERIS TETRAIHA	1	0	0	0	0	0.20
LUMBRINERIS PALLIDA	0	0	0	1	0	0.20
SCOLOPLOS ARMIGER	0	0	0	1	0	0.20
PARANELLA PLATYBRANCHIA	1	0	0	0	0	0.20
ACESTA CATHERINAE	0	1	0	0	0	0.20
DISPID UNCINATA	0	0	0	0	1	0.20
PHIONOSPID CIRRIFERA	0	0	0	0	2	0.40
APOPRIONOSPID PYGMAEUS	1	3	1	0	2	1.40
SPIOPHANES BOMBYX	0	1	0	0	0	0.20
SPIOPHANES SP.	0	0	1	0	0	0.20
MEDIOMASTUS CALIFORNIENSIS	0	0	1	0	0	0.20
ANASTIGOS ACUTUS	1	0	0	2	0	0.60
HARPACTICOIDA, UNID.	0	0	0	1	0	0.20
MYSIDOPSIS CALIFORNICA	1	0	0	0	0	0.20
DIASTYLOPSIS TENUIS	0	0	1	1	0	0.40
ECHAUSTORIUS WASHINGTONIANUS	0	0	0	2	1	0.60
JASSA FALCATA	0	2	1	0	0	0.60
RHEPOXYNIUS EPISTOMUS	0	0	1	0	0	0.20
GAMMARIDEA, UNID.	1	0	0	0	0	0.20
COOPERELLA SURDIAPHANA	0	0	1	0	0	0.20
HEMICORDATA, UNID.	0	1	0	0	0	0.20

Table III-5. Subtidal infaunal species density (mean number per liter) by replicate, November 1979 (Cont).

STATION C2 28 November, 1979

SPECIES	REPLICATES												MEAN
	1	2	3	4	5	6	7	8	9	10	11	12	
PLATYHELMINTHES, UNID.	0	0	1	0	0	0	0	0	1	0	0	0	0.17
NEMERTEA, UNID.	0	4	0	1	0	0	0	0	2	1	0	2	0.83
CARINOMA MUTABILIS	2	1	0	1	1	2	0	1	4	0	1	1	1.17
PARANEMERTES SP. A	0	0	0	1	0	1	0	1	0	0	0	0	0.25
NEMATODA, UNID.	1	0	0	0	0	0	0	0	0	0	0	0	0.08
AKAITIDES SP.	0	0	0	0	0	0	0	0	0	0	1	0	0.08
TYPOSYLLIS ACICULATA	0	0	0	1	0	0	0	0	0	1	0	0	0.17
NEPHTYS CAECOIDES	1	0	1	0	0	0	0	0	0	1	0	0	0.25
NEPHTYS SP.	0	0	0	0	0	0	0	0	1	0	0	0	0.08
GLYCERA CONVOLUTA	0	0	0	0	0	0	0	1	0	0	0	0	0.08
GLYCINDE ARMIGERA	0	0	0	0	0	0	1	0	0	0	0	0	0.08
GONIADA LITTOREA	2	0	3	0	0	1	0	0	1	2	0	1	0.83
MARPHUSA SP.	0	0	0	0	0	0	0	0	0	1	0	0	0.08
LUMBRINERIS TETRAURA	0	0	0	1	0	0	0	0	2	1	1	0	0.42
LUMBRINERIS SP.	0	0	1	0	0	0	0	0	0	0	0	0	0.08
LUMBRINERIS PALLIDA	1	0	0	0	0	0	0	0	0	0	1	0	0.17
HAPLOSCOLOPUS ELONGATUS	0	0	0	0	1	0	0	1	0	0	0	0	0.17
SCOLOPUS ARMIGER	1	6	1	1	0	3	0	1	4	1	0	1	1.58
ACESTA CATHERINAE	0	0	2	3	1	1	3	0	7	3	3	1	2.00
PRIONOSPIO CIRRIFFERA	3	2	1	1	1	0	0	0	0	1	0	0	0.75
PARAPRIONOSPIO PINNATA	1	0	0	0	0	0	0	1	0	0	0	0	0.17
APORRHOOSPIO PYGMAEUS	2	0	0	0	0	0	0	0	0	0	0	2	0.33
SPIOPHANES BOMBYX	0	2	0	1	0	1	0	2	1	0	2	2	0.92
SPIOPHANES MISSIONENSIS	0	0	0	0	0	0	0	0	0	1	3	0	0.33
CHAETOZONE SFTOSA	0	0	2	1	0	0	0	0	0	0	0	0	0.25
THARYX SP.	0	0	0	0	0	0	0	0	0	0	0	1	0.08
THAVISIA GIGAS	0	0	0	0	0	0	0	0	1	0	0	0	0.08
MEDIOMASTUS AMRIFETA	0	0	3	0	1	4	1	3	5	0	9	3	2.42
MEDIOMASTUS ACUTUS	0	0	0	0	0	0	1	1	2	1	0	1	0.50
MEDIOMASTUS CALIFORNIENSIS	0	0	0	1	5	1	0	1	0	0	3	3	1.17
NOTOMASTUS TENUIS	0	0	0	0	0	0	0	0	0	0	1	0	0.08
AMASTIGOS ACUTUS	2	3	7	0	0	19	1	0	47	1	3	0	8.67
PECTINARIA CALIFORNIENSIS	1	2	0	0	0	0	0	0	0	1	0	0	0.33
AMPHARETIDAE, UNID.	0	0	0	1	0	0	0	0	0	0	0	0	0.08
AMPHARETE LABRUPS	0	0	0	0	0	0	0	0	2	0	0	0	0.17
AMAEANA OCCIDENTALIS	1	0	1	0	0	0	1	0	1	0	0	0	0.33
PISTA FASCIATA	0	0	0	0	0	0	0	0	0	0	1	0	0.08
GOLFIAGIA MISAKIANA	0	1	0	0	0	0	0	0	0	0	0	0	0.08
RYCNOGONIDA, UNID.	1	0	0	0	0	0	0	1	0	0	1	1	0.33
CYLINDROLBERRIIDAE, UNID.	1	0	0	0	0	0	0	1	0	0	0	1	0.25
EUPHILOMEDES LONGISETA	1	0	0	1	0	0	0	0	0	0	0	0	0.17
EUPHILOMEDES CARCHARODONTA	1	0	0	0	1	0	0	0	0	0	0	0	0.17
CYCLASPIS SP. C	0	0	0	0	1	0	0	0	0	0	0	0	0.08
ARCHICOLURUS OCCIDENTALIS	1	0	0	0	0	0	0	1	0	0	0	1	0.25
DIASTYLOPSIS TENUIS	7	5	3	1	1	1	1	3	0	0	1	0	1.92
HEMILAMPROPS CALIFORNICA	1	1	0	1	0	0	0	0	0	1	1	0	0.42
CAMPYLASPIS SP. C	1	0	0	0	2	0	0	0	0	0	0	0	0.25
RATHYCOPIA GRANULATUS	3	1	0	0	1	0	0	0	0	0	0	0	0.42
ECOTFA SUBLITTORALIS	1	0	0	0	1	0	0	1	0	2	0	0	0.42
MUNNA UHIGUITA	0	0	0	0	0	0	0	2	0	0	1	0	0.25
AMPHITISCA COMPRESSA	0	1	0	0	0	0	0	0	0	0	0	0	0.08
AMPHIDEUTOPUS OCVLATUS	0	0	1	0	0	0	0	0	0	0	0	1	0.17
ARGISSA HAMATIPES	0	0	0	0	1	0	0	0	0	0	0	0	0.08
MEGALUROPIUS LONGIFRUS	0	0	0	0	1	0	0	0	0	0	0	0	0.08
GAMMAROPSIS THOMPSONI	2	0	0	0	0	0	0	0	0	0	0	0	0.17
PHOTIS SP.	0	0	0	0	0	1	0	0	0	0	0	0	0.08
PHOTIS CONCHICOLA	0	0	0	0	0	1	0	0	0	0	0	0	0.08
PHOTIS MACROTICA	0	0	0	1	0	0	0	0	0	0	0	0	0.08
JASSA FALCATA	0	0	0	0	1	1	0	0	0	0	0	0	0.17
SYNCHELIDIUM SP.	0	0	0	0	0	0	0	1	0	0	0	0	0.08
RHEPOXYNIUS ARRONIUS	0	1	1	0	0	1	0	0	0	0	1	0	0.33
RHEPOXYNIUS RICUSPIDATUS	1	2	1	0	0	0	1	0	0	0	2	0	0.58
RHEPOXYNIUS EPISTOMUS	3	4	0	0	3	1	0	1	1	2	2	0	1.42
STENOTHOE ESTACOLA	0	0	1	0	0	0	0	1	0	0	0	0	0.17
ORYZIDES SP. A	0	0	1	0	0	0	0	0	0	0	0	0	0.08
CALLIANASSA SP.	0	0	0	0	0	0	0	0	0	0	1	0	0.08
CLIVELLA BAETICA	1	0	3	1	0	0	0	0	0	0	0	0	0.42
KURTZIELLA PLUMBREA	0	0	0	0	0	0	1	0	0	0	0	0	0.08
YCLDIA SCISSURATA	0	0	0	0	0	0	0	0	0	2	1	0	0.25
MCDIOLUS NEGLECTUS	0	0	0	0	0	0	0	0	0	1	0	0	0.08
MYSELLA PEDROANA	0	0	0	0	0	0	1	0	0	0	0	0	0.08
CARDIIDAE, UNID.	0	0	0	1	0	0	0	0	0	0	0	0	0.08
TELLINA CARPENTRI	0	1	0	0	0	0	0	0	0	0	0	0	0.08
TELLINA MODESTA	5	17	5	3	11	17	3	4	4	0	8	4	6.75
MACOMA ACOLASTA	0	0	0	0	0	0	0	0	1	0	0	0	0.08
PHORONIDA, UNID.	1	0	0	0	0	0	0	0	0	0	0	0	0.08
OPHIOPHRAGMUS DIGITATA	0	0	0	0	0	0	0	0	0	0	0	1	0.08
AXIOPHATHUS PUGFATANA	0	0	0	0	0	2	0	0	0	0	0	0	0.17
OENDRASTER EXCENTRICUS	0	1	0	0	0	0	0	1	0	0	1	0	0.25

Table III-5. Subtidal infaunal species density (mean number per liter) by replicate, November 1979 (Cont).

STATION C3 29 November, 1979

SPECIES	REPLICATES												MEAN
	1	2	3	4	5	6	7	8	9	10	11	12	
ISOEDWARDSIA SP. A	0	0	1	1	0	0	0	0	0	0	1	0	0.25
EDWARDSIA SIPUNCULOIDES	1	1	0	0	0	0	0	0	0	0	0	0	0.17
PLATYHELMINTHES, UNID.	0	0	0	0	0	0	0	0	0	0	1	0	0.08
NEMERTEA, UNID.	2	1	1	1	1	0	1	1	1	2	0	1	1.00
CARINOMA MUTARILIS	0	2	0	0	1	2	2	1	0	0	0	0	0.67
PARANEMERTES SP. A	0	0	0	0	0	1	0	0	0	0	0	1	0.17
NEMATODA, UNID.	0	0	0	0	0	0	0	0	0	0	1	0	0.08
HARMOHOE LUNULATA	2	0	0	0	1	1	0	1	0	1	1	0	0.58
HARMOHOE PRIOPS	0	0	0	0	0	0	0	0	0	0	0	1	0.08
EUSIGALION SPINOSUM	0	0	0	0	0	0	0	1	0	0	0	0	0.08
ANATIDES WILLIAMSI	0	0	0	0	0	0	1	0	0	0	0	0	0.08
ETEONE DILATAE	0	0	0	0	0	0	0	0	0	1	0	0	0.08
COONOTOSYLLIS PHOSPHOREA	0	0	0	0	0	1	0	0	0	0	0	1	0.17
TYPOSYLLIS ACICULATA	0	0	0	0	0	0	3	0	0	1	2	0	0.50
STREPTOSYLLIS SP.	0	3	0	0	0	0	0	0	0	0	0	0	0.25
NEREIS LATESCENS	0	1	0	0	0	1	0	0	0	0	0	0	0.17
NEREIS SP.	1	1	0	0	0	0	0	0	1	0	2	0	0.42
NEPHTYS CAECOIDES	0	1	0	0	0	0	0	0	0	0	3	0	0.33
NEPHTYS CORNUTA FRANCISCANA	0	1	1	0	0	0	2	2	0	1	0	0	0.58
GLYCERA CONVOLUTA	0	0	0	0	0	0	1	1	0	0	0	1	0.25
GONJADA LITTOREA	1	1	1	0	1	0	0	0	3	0	7	3	1.42
LUMBRINERIS TETRAURA	0	2	0	1	4	0	1	2	1	1	3	4	1.58
LUMBRINERIS SP.	0	1	0	2	0	1	0	3	1	1	6	0	1.25
SCOLOPLOS ARMIGER	0	1	0	0	0	0	0	0	0	0	2	0	0.25
ARICIDEA WASSI	0	0	0	1	0	0	0	0	0	0	0	0	0.08
ACESTA CATHERINAE	5	4	1	3	1	0	4	2	2	7	1	2	2.67
LAONICE FOLIATA	0	0	0	0	0	0	0	1	0	0	1	0	0.17
PRIONOSPID MALMGRENI	0	0	0	0	0	0	1	0	0	0	0	0	0.08
PARAPRIONOSPID PIANATA	1	1	0	0	1	1	1	1	0	1	0	0	0.58
APOPRIOSPID PYGMAEUS	0	1	0	1	1	1	1	0	0	0	0	0	0.42
SPIOPHANES BOMBIX	0	0	0	0	0	1	0	0	0	0	0	0	0.08
SPIOPHANES MISSIONENSIS	0	0	0	0	0	0	1	2	0	0	0	0	0.25
SPIOPHANES SP.	0	0	0	0	0	1	0	0	0	0	0	0	0.08
RHYNCHOSPID SP.	0	0	0	0	0	0	0	1	0	0	0	0	0.08
MAGFLONA SACCOLATA	0	0	0	0	1	0	0	0	0	0	1	1	0.25
SPIOCHAETOPTERUS CUSTARUM	0	1	1	1	0	0	0	0	0	0	0	0	0.25
CHAETIZONE SETOSA	0	0	1	2	1	0	0	3	1	0	1	1	0.83
THARYX SP.	0	0	0	1	0	0	0	0	1	0	0	0	0.17
CESSURA CANOIDA	1	0	0	0	0	0	0	0	0	0	0	0	0.08
MEDIOMASTUS AMBISETA	14	15	3	13	6	8	17	28	11	29	46	1	15.92
MEDIOMASTUS ACUTUS	0	0	0	0	0	0	0	0	0	0	1	0	0.08
MEDIOMASTUS CALIFORNIENSIS	0	0	1	0	0	0	0	0	0	0	0	0	0.08
ANASTIGOS ACUTUS	0	0	0	0	0	0	0	2	0	0	0	0	0.17
ASYCHIS DISPARIDENTATA	0	0	0	0	0	0	0	0	0	0	0	1	0.08
AXIOTHELBA RUBROCINCTA	0	0	0	0	0	0	0	0	0	0	1	0	0.08
CKENIA COLLARIS	0	0	0	0	0	0	0	0	1	0	0	0	0.08
AMPHARETE LABRUPS	0	0	0	0	0	0	2	0	0	3	1	0	0.50
AMELANA OCCIDENTALIS	0	0	0	0	0	0	1	0	1	0	1	0	0.25
PISTA FASCIATA	1	0	0	1	0	3	1	0	0	1	0	1	0.67
SCALTBREGMA INFLATUM	0	0	0	0	0	0	0	0	0	1	0	0	0.08
SIPUNCULIDA, UNID.	0	2	0	0	0	0	0	0	0	0	0	0	0.17
GULFINGIA MISAKIANA	2	0	0	0	1	0	0	2	1	1	0	0	0.58
CYLINDROLEBERIDIDAE, UNID.	0	1	1	0	0	1	0	0	0	0	0	0	0.25
FLPHILOMEDES CARCHARODONTA	0	0	4	1	0	0	1	0	2	2	0	0	0.83
RUTIDERMA ROSTRATA	0	0	0	0	0	0	0	1	0	0	0	0	0.08

Table III-5. Subtidal infaunal species density (mean number per liter) by replicate, November 1979 (Cont).

STATION C3 (CONT). 29 November, 1979

SPECIES	REPLICATES												MEAN
	1	2	3	4	5	6	7	8	9	10	11	12	
ASTEROPELLA SP. S	0	0	0	0	0	0	0	0	0	0	0	1	0.08
CIRRIPIEDIA, UNID.	0	0	0	0	0	0	0	0	0	1	0	0	0.08
DIASTYLOPSIS TENUIIS	0	0	0	1	0	1	1	0	0	1	0	0	0.33
HEMILAMPROPS CALIFORNICA	1	0	1	1	0	0	0	0	0	0	0	0	0.25
CAMPYLASPIS SP. C	2	0	0	0	0	0	0	0	0	0	0	0	0.17
CUMELLA SP. A	0	0	0	0	0	0	0	0	0	0	0	1	0.08
OXYUROSTYLIS PACIFICA	1	0	0	0	0	0	0	0	0	0	0	0	0.08
ANPELISCA CRISTATA	5	2	0	1	2	1	4	2	1	0	1	2	1.75
ANPELISCA COMPRESSA	3	2	0	0	0	0	0	0	0	0	0	2	0.58
ACUMINODEUTOPIUS HETERURUPUS	1	0	0	0	0	0	0	2	0	0	0	0	0.25
CFRAPUS TUBULARIS	0	0	1	0	0	0	0	0	0	0	0	0	0.08
MEGALUROPIUS LONGIMERUS	0	0	0	1	0	0	0	0	0	0	0	0	0.08
JASSA FALCATA	0	0	1	0	0	0	0	0	0	1	0	0	0.17
LITRIELLA ERIOPISA	0	0	0	0	0	0	0	0	0	0	1	0	0.08
PACHYNUS HARNARDI	0	0	0	0	0	0	0	0	1	0	2	0	0.25
SYNCHELIDIUM SP.	0	1	1	1	0	0	0	0	0	1	0	1	0.42
RHEPOXYNIUS ABRONIOUS	0	0	0	1	0	1	2	0	0	2	1	0	0.58
RHEPOXYNIUS EPISTOMUS	1	2	1	1	0	2	0	0	1	4	0	1	1.08
RHEPOXYNIUS LUCUBRANS	0	0	0	2	0	0	0	0	0	0	0	0	0.17
PARAPHOXUS STENODES	1	0	1	0	0	0	0	0	0	0	0	1	0.25
PARAPHOXUS VARIATUS	3	0	0	1	2	1	2	0	0	1	0	1	0.92
TIRON RIOCELLATA	0	0	0	0	0	0	0	0	0	1	0	0	0.08
GAMMARIDFA, UNID.	0	0	0	0	0	0	0	0	0	0	0	1	0.08
CALLIANASSA SP.	0	0	0	0	1	0	0	0	0	0	0	0	0.08
NASSARIUS PERPINGUIS	1	0	0	1	3	0	0	0	0	0	0	0	0.42
CLIVELLA BAETICA	0	0	9	0	0	0	1	1	2	1	0	0	1.17
ACTEONINA HARPA	0	1	0	0	0	0	0	0	0	0	0	0	0.08
AGLAJA DIOMEDA	0	0	0	0	0	0	0	1	0	0	0	0	0.08
YOLDIA SCISSURATA	0	0	0	0	0	0	0	0	0	0	1	0	0.08
LUCINOMA ANNULATA	0	0	0	0	0	0	0	0	1	0	0	0	0.08
MYSELLA PEDROANA	2	0	0	0	0	0	0	0	0	0	0	0	0.17
MYSELLA SP. F	0	1	0	0	0	0	0	0	0	0	0	0	0.08
TELLINA MODESTA	0	2	2	3	0	0	0	2	0	1	0	1	0.92
MACOMA ACOLASTA	0	0	0	0	0	1	0	0	0	0	0	1	0.17
MACOMA YOLDIFORMIS	2	0	0	0	0	0	0	0	0	0	0	0	0.17
MACOMA SP.	0	0	0	0	0	0	0	0	0	0	0	1	0.08
PERIPLOMA DISCUS	1	0	0	0	0	0	0	1	0	0	0	0	0.17
PFLECYPODA, UNID.	0	1	0	0	0	0	0	0	0	0	0	0	0.08
CADULUS FUSIFORMIS	0	0	0	1	0	0	0	0	0	0	0	0	0.08
OPHIOPHRAGMUS DIGITATA	0	0	1	0	0	0	0	0	0	1	0	1	0.25
LOVENIA CORDIFORMIS	0	0	0	0	0	0	1	0	0	0	0	0	0.08
HEMICHORDATA, UNID.	0	0	0	0	0	0	0	0	0	1	0	1	0.17

Table III-5. Subtidal infaunal species density (mean number per liter)  
by replicate, November 1979 (Cont).

28 November, 1979

STATION D1

SPECIES	REPLICATES					MEAN
	1	2	3	4	5	
NEMERTEA, UNID.	2	0	0	0	0	0.40
PARANEMERTES SP. A	0	0	0	0	1	0.20
EUSIGALION SPINOSUM	0	0	1	0	0	0.20
NEMPHYS CAECOIDES	0	0	0	0	1	0.20
GONIADA LITTorea	0	1	0	1	0	0.40
LUMBRINERIS PALLIDA	0	0	0	1	0	0.20
SCOLOPLOS ARMIGER	7	8	7	6	1	5.80
AEDICIRA PACIFICA	0	0	0	1	0	0.20
ACESTA CATHERINAE	0	0	0	0	2	0.40
DISPIC UNCINATA	0	0	0	0	1	0.20
APOPRIONOSPIO PYGMAEUS	4	12	4	5	6	6.20
SPIOPHANES BOMBYX	0	2	0	1	3	1.20
SPIOPHANES MISSIONENSIS	0	0	0	0	2	0.40
MEDIOMASTUS CALIFORNIENSIS	1	0	0	1	0	0.40
AMASTIGOS ACUTUS	13	12	2	18	23	13.60
SABELLARIA NANELLA	0	1	0	0	0	0.20
PECTINARIA CALIFORNIENSIS	0	0	1	0	0	0.20
PYCNOGONIDA, UNID.	0	0	0	0	1	0.20
CALLIPALLENE PALPIDA	29	1	2	0	1	6.60
EUPHILOMEDES LONGISETA	1	1	0	0	0	0.40
EUPHILOMEDES SP.	1	0	0	0	0	0.20
CYCLASPIS SP. B	0	1	0	0	0	0.20
DIASTYLOPSIS TENUIS	2	0	0	0	1	0.60
CAMPYLASPIS SP. C	0	1	0	0	0	0.20
LEPTOCUMA FORSMANI	2	0	0	0	1	0.60
AMPELISCA COMPRESSA	0	0	0	3	0	0.60
ECHAUSTORIUS WASHINGTONIANUS	0	0	1	0	0	0.20
PHOTIS SP.	0	0	0	0	1	0.20
PHOTIS MACROTICA	0	0	0	0	1	0.20
JASSA FALCATA	0	3	1	0	3	1.40
RHEPOXYNIUS BICUSPIDATUS	0	0	4	0	3	1.40
RHEPOXYNIUS EPISTOMUS	1	3	3	2	6	3.00
MAJIDAE, UNID.	0	0	0	0	1	0.20
TPELLINA MODESTA	1	1	0	0	5	1.40
MACOMA SP.	0	0	1	0	1	0.40
CENDRASTER EXCENTRICUS	0	0	0	1	0	0.20

Table III-5. Subtidal infaunal species density (mean number per liter) by replicate, November 1979 (Cont).

STATION D2 28 November, 1979

SPECIES	REPLICATES												MEAN
	1	2	3	4	5	6	7	8	9	10	11	12	
NEMERTEA, UNID.	2	0	1	2	1	1	0	0	0	1	3	2	1.08
CARINOMA MUTABILIS	0	1	1	0	1	2	0	0	0	1	1	0	0.58
MICRURA ALASKANSIS	0	0	0	0	0	0	0	0	0	1	0	0	0.08
FTEONE ALBA	1	0	0	0	0	0	0	0	0	0	0	0	0.08
EUMIDA SP.	0	0	0	0	0	1	0	0	0	0	0	0	0.08
GYPTIS BREVIPALPA	0	0	0	0	0	0	0	1	0	0	0	0	0.08
TYPOSYLLIS ACICULATA	1	0	0	0	0	0	0	0	0	0	0	0	0.08
NEREIDAE, UNID.	0	0	0	0	0	0	0	1	0	0	0	0	0.08
NEPHTYS CAECOIDES	0	0	0	0	0	0	1	0	0	0	0	0	0.08
GLYCERA CONVOLUTA	0	0	0	0	0	0	0	0	0	0	1	0	0.08
GLYCINDE ARMIGERA	0	0	0	0	0	0	0	0	1	0	0	0	0.08
GONIADA LITTOREA	1	1	1	2	1	0	0	2	3	5	2	2	1.67
DIOPATRA SPLENDIDISSIMA	0	1	0	0	0	0	0	0	0	0	0	0	0.08
ONUPHIS EREMITA	1	1	0	0	0	0	0	0	0	0	0	0	0.17
LUMBRINERIS TETRAURA	0	0	0	0	1	0	1	0	0	0	0	1	0.25
LUMBRINERIS SP.	0	0	1	0	0	0	0	0	0	0	0	0	0.08
LUMBRINERIS PALLIDA	1	0	1	0	0	0	0	0	0	0	0	0	0.17
HAPLOSCOLOPLOS ELONGATUS	0	0	0	1	1	0	0	2	0	0	0	0	0.33
SCOLOPLOS ARMIGER	2	0	1	0	0	1	0	0	0	0	0	0	0.33
ACESTA CATHERINAE	1	0	1	3	1	2	1	4	1	1	4	1	1.67
ACESTA MORIKOSHII	0	0	1	0	0	0	0	0	0	0	0	0	0.08
POLYDORA LIGNI	0	0	0	0	0	2	0	0	0	0	0	0	0.17
PRIONOSPIO CIRRIFFERA	0	0	0	0	0	0	0	0	1	0	0	0	0.08
PARAPRIONOSPIO PINNATA	1	1	0	0	0	0	0	3	0	1	1	4	0.92
APOPRIONOSPIO PYGMAEUS	1	0	1	0	0	0	0	0	0	1	1	2	0.50
SPIOPHANES BOMBYX	0	1	1	0	2	1	0	4	1	4	1	1	1.33
SPIOPHANES MISSIONENSIS	1	0	0	0	1	0	0	2	0	0	0	1	0.42
THARYX SP.	0	0	0	0	0	0	0	1	0	0	0	0	0.08
MEDIOMASTUS AMBISETA	0	3	2	3	3	2	3	5	0	3	1	1	2.17
MEDIOMASTUS ACUTUS	1	1	0	2	0	0	0	3	2	1	0	0	0.83
MEDIOMASTUS CALIFORNIENSIS	0	0	0	0	0	0	2	2	1	0	0	0	0.42
MEDIOMASTUS SP.	0	0	0	0	0	0	0	0	0	0	0	2	0.17
ANASTIGOS ACUTUS	0	0	3	7	5	4	3	4	0	1	2	10	3.58
PECTINARIA CALIFORNIENSIS	0	0	1	0	0	0	0	0	0	1	0	0	0.17
AMPHARETE LABRIPS	0	0	0	0	0	1	0	0	0	0	0	0	0.08
AMAEANA OCCIDENTALIS	0	1	0	0	0	0	0	0	0	0	0	0	0.08
PYCNOGONIDA, UNID.	0	0	0	0	0	0	0	1	0	0	1	0	0.17
CYLINDROLEBERIDIDAE, UNID.	0	0	0	0	0	0	0	2	0	0	0	0	0.17
EUPHILOMEDES CARCHARODONTA	0	0	0	1	0	1	0	0	0	0	0	1	0.25
DIASYLOPSIS TENUIS	1	1	0	1	2	2	2	0	0	2	0	3	1.17
HEMILAMPROS CALIFORNICA	0	1	0	0	0	1	0	0	0	1	0	0	0.25
FOOTFA SURLITTORALIS	0	0	0	0	0	0	0	0	0	0	1	0	0.08
MUNNA URIQUITA	0	0	0	0	0	0	0	1	0	0	1	0	0.17
AMPELISCA COMPRESSA	0	0	0	0	0	0	25	0	0	0	0	0	2.08
ACROIDES COLUMBIAE	0	0	0	0	1	1	0	0	0	0	0	0	0.17
MEGALUROPIUS LONGIMERUS	0	0	0	0	0	1	1	0	0	0	0	0	0.17
PHOTIS SP.	0	1	0	0	0	0	0	2	2	0	1	0	0.50
JASSA FALCATA	0	2	0	0	0	2	0	1	0	0	0	1	0.50
ISCHYROCERUS LITOTES	0	0	0	0	0	1	0	0	0	0	0	0	0.08
RHEPOXYNIUS ABRONIOUS	0	0	0	1	0	1	1	0	0	1	0	0	0.33
RHEPOXYNIUS EPISTOMUS	0	1	0	0	0	3	0	0	1	0	0	1	0.50
PARAPHOXUS STENODES	0	0	0	0	0	1	0	0	0	0	0	0	0.08
STENOTHOF ESTACOLA	0	0	0	0	0	0	0	0	1	0	0	0	0.08
CAPRELLIDAE, UNID.	0	0	0	1	0	0	0	0	0	0	0	0	0.08
TRITELLA SP.	0	0	0	0	0	1	0	0	0	0	0	0	0.08
CALLIANASSA SP.	0	1	0	0	0	0	0	0	0	0	0	0	0.08
CREPIDULA SP.	0	0	0	0	1	0	0	0	0	0	0	0	0.08
MASSARIUS PENPINGUIS	0	0	0	0	0	0	0	1	0	0	0	0	0.08
CLIVELLA RAETICA	0	0	1	3	1	1	0	0	1	2	1	0	0.83
KURTZIELLA PLUMBEA	0	0	0	1	0	0	0	0	0	0	0	0	0.08
OPHIODERMELLA INERMIS	0	0	0	0	0	0	0	1	0	0	0	0	0.08
SULCORETUSA XYSTRUM	0	0	0	0	0	0	0	0	0	1	0	0	0.08
YOLGIA SCISSURATA	0	1	0	0	0	0	0	0	0	0	0	0	0.08
MORIOIUS NEGLECTUS	1	0	0	0	0	0	0	0	0	0	0	0	0.08
PARVILUCINA TENUISCUPTA	0	0	1	0	0	0	0	0	0	0	0	0	0.08
MACRIDAE, UNID.	0	0	0	0	0	0	0	0	0	1	0	0	0.08
TELLINA MODESTA	5	1	0	1	0	1	0	2	2	1	1	0	1.17
MACOMA SP.	1	0	0	0	0	0	0	0	0	0	0	0	0.08
PERIPLOMA DISCUS	2	0	0	0	0	0	1	0	0	0	0	0	0.25
AXIOGNATHUS PUGETANA	0	0	0	0	1	0	0	0	0	0	0	0	0.08
DENDRASTER EXCENTRICUS	0	1	0	0	0	0	0	0	0	0	0	0	0.08
HEMICHORDATA, UNID.	0	0	0	0	1	0	0	0	0	0	0	0	0.08

Table III-5. Subtidal infaunal species density (mean number per liter) by replicate, November 1979 (Cont).

STATION D3 28 November, 1979

SPECIES	REPLICATES												MEAN
	1	2	3	4	5	6	7	8	9	10	11	12	
PLATYHELMINTHES, UNID.	0	0	0	0	0	0	0	0	0	1	0	0	0.08
AFMERTEA, UNID.	0	0	1	2	2	0	1	2	2	1	2	2	1.25
CARINOMA MUTABILIS	1	2	0	0	0	0	3	0	1	0	0	0	0.58
NEMATODA, UNID.	0	0	0	0	0	0	0	0	0	1	0	0	0.08
HARMOTHOF LUNULATA	0	0	0	0	0	1	0	0	0	0	0	0	0.08
ANAITIDES SP.	1	0	0	0	0	0	0	0	0	0	0	0	0.08
GYPTIS BREVIPALPA	0	0	0	0	0	0	1	0	0	0	0	0	0.08
TYPOSYLLIS ACICULATA	0	0	0	0	0	0	1	0	0	0	1	0	0.17
NEREIDAE, UNID.	0	0	0	0	0	0	0	0	0	0	1	0	0.08
PLATYNEREIS BICANALICULATA	0	0	0	0	0	0	0	0	0	0	1	0	0.08
NEPHTYS CORNUTA FRANCISCANA	0	0	0	0	0	0	0	0	1	0	1	0	0.17
SPHAERODOROPSIS DISTICHUM	0	0	0	0	0	0	1	0	0	0	0	0	0.08
GLYCERA CUNVOLUTA	0	0	0	0	0	1	1	0	0	0	0	0	0.17
GONIADA LITOREA	0	0	1	1	0	1	3	1	2	1	2	0	1.00
DIOPATRA SP.	1	0	0	0	0	1	0	0	0	0	0	0	0.17
LUMBRINERIS TETRAURA	3	1	2	2	3	2	2	0	2	2	2	3	2.00
SCALEWORM, UNID.	0	0	0	0	0	0	0	0	1	0	0	0	0.08
HAPLOSCOLOPUS ELONGATUS	0	0	0	0	0	0	1	0	0	0	0	0	0.08
ACESTA CATHERINAE	0	1	0	0	0	0	3	1	1	2	3	1	1.00
LAONICE CIRRATA	0	1	1	0	0	0	0	0	0	0	0	1	0.25
PRIONOSPION CIRRIFERA	0	0	0	0	0	0	0	0	1	0	0	0	0.08
PARAPRIONOSPION PINNATA	0	0	0	1	0	0	0	0	1	0	0	0	0.17
AOPRIONOSPION PYGMAEUS	0	0	0	3	0	0	1	0	3	0	2	1	0.83
SPIOPHANES BOMBYX	0	0	1	0	0	0	0	0	0	0	0	0	0.08
SPIOPHANES MISSIONENSIS	1	0	0	0	0	0	0	0	0	0	0	0	0.08
MAGELONA SACCUCLATA	0	0	0	0	0	0	2	1	0	1	1	1	0.50
SPIOCHAETOPTERUS COSTARUM	1	0	0	0	0	0	1	0	1	0	0	0	0.25
CHAETAZONE SETOSA	7	3	0	3	2	4	6	0	1	2	1	1	2.50
THARYX SP.	0	0	0	1	0	0	1	0	0	0	1	0	0.25
MEDIOMASTUS AMBISETA	5	0	0	3	0	2	14	4	4	1	8	3	3.50
MEDIOMASTUS ACUTUS	0	0	1	0	0	1	0	0	0	0	2	0	0.33
MEDIOMASTUS CALIFORNIENSIS	0	0	0	0	0	0	0	0	1	0	0	0	0.08
AMASTIGOS ACUTUS	2	0	0	0	0	0	6	0	0	0	0	0	0.67
ASYCHIS DISPARTIOLATA	0	0	0	1	1	0	0	0	0	0	0	0	0.17
OWENIA COLLARIS	0	0	0	1	1	0	0	2	1	0	0	1	0.50
PECTINARIA CALIFORNIENSIS	0	0	0	0	0	0	0	0	0	1	0	0	0.08
AMPHARETIDAE, UNID.	0	10	0	0	0	0	0	0	0	0	0	0	0.83
AMPHARETE LABROPS	0	0	0	0	1	3	0	2	0	1	4	1	1.00
AMPHICTEIS SCAPHORRANCHIATA	0	0	0	0	0	0	0	0	1	0	0	0	0.08
AMAEANA OCCIDENTALIS	1	0	1	0	0	1	0	1	0	0	1	0	0.42
PISTA FASCIATA	0	0	0	1	0	0	0	0	0	1	0	0	0.17
SIPUNCULIDA, UNID.	0	0	0	0	0	0	0	0	1	0	0	0	0.08
GOLFIANGIA MISAKIANA	0	2	0	1	2	1	2	0	0	1	0	0	0.75
PYCNOGONIDA, UNID.	0	0	0	0	0	1	0	0	0	0	0	0	0.08
CYLINDROLFBERIDIDAE, UNID.	0	0	0	0	0	0	0	0	0	1	0	0	0.08
BATRIDIIDAE A, UNID.	0	0	0	0	0	0	0	0	0	0	1	0	0.08
EUPHILOMEDES CARCHARODONTA	0	0	0	0	0	0	0	0	0	1	0	0	0.08
CYCLOLEBERIS AMERICANA	1	0	0	0	0	0	0	0	0	0	0	0	0.08
CALANOIDA, UNID.	0	0	1	1	0	0	0	0	0	0	0	0	0.17
CYCLASPIS NUBILA	0	0	0	0	0	0	0	0	0	0	1	1	0.17
DIASTYLOPSIS TENUIS	0	1	0	1	0	0	0	1	0	1	0	0	0.33
HEMILAMPROPS CALIFORNICA	0	0	0	0	0	0	0	0	1	2	0	0	0.25
OXYUROSTYLIS PACIFICA	0	0	0	0	0	1	0	0	0	0	1	0	0.17
EXOSPHEROMA RHOMBURUM	0	0	0	0	0	1	0	0	0	0	0	0	0.08
AMPELISCA CRISTATA	0	1	0	0	0	0	0	0	0	1	0	0	0.17
AMPELISCA COMPRESSA	0	0	0	0	0	0	0	0	1	0	0	0	0.08
ACUMINODEUTOPIUS HETERUROPIUS	0	0	0	0	0	0	0	0	2	0	0	0	0.17
ARGISSA HAMATIPES	0	0	0	0	0	0	0	0	1	0	1	0	0.17
MEGALUROPIUS LONGIMERUS	0	0	0	0	0	0	0	0	0	1	1	0	0.17
JASSA FALCATA	0	1	0	3	1	1	3	0	2	1	0	1	1.08
ISCHYROCEPHALUS LITOTES	0	0	0	0	0	0	0	0	0	0	0	1	0.08
SYNCHELIDIUM SP.	0	1	0	0	0	0	0	0	0	0	1	1	0.25
PHOXOCEPHALIDAE, UNID.	0	0	0	1	0	0	0	0	0	0	0	0	0.08
RHEPOXYNIUS ARRONIUS	1	0	0	0	1	1	0	0	0	1	2	1	0.58
RHEPOXYNIUS RICUSPIDATUS	0	0	0	1	0	0	0	0	0	0	0	0	0.08
RHEPOXYNIUS FPISTOMUS	0	1	0	1	0	1	1	0	2	2	2	2	1.00
PARAPLEUSTES PUGETTENSIS	0	0	0	0	0	0	0	0	0	0	1	0	0.08
TIRON TROPAKIS	0	1	1	2	2	1	0	0	2	0	2	2	1.08
GAMMARIDEA, UNID.	0	0	0	0	0	0	0	0	0	0	1	0	0.08
CAPRELLIDAE, UNID.	13	0	0	2	1	0	0	0	1	0	0	1	1.50
DEUTELLA CALIFORNICA	0	0	0	1	0	0	0	0	0	0	0	0	0.08
CAPRELLA CALIFORNICA	0	1	0	0	0	0	0	0	0	0	0	0	0.08
OGYRIDES SP.A	0	0	0	0	0	0	1	0	0	0	0	0	0.08
CLIVELLA HAETICA	0	1	0	0	2	0	0	0	0	0	0	0	0.75
CLIVELLA SP.	0	0	0	0	0	0	0	0	0	0	0	1	0.08
HERMISSENDA CRASSICORNIS	0	0	0	0	0	0	0	0	0	0	1	0	0.08
NEFAFRONIA COMPRESSA	2	0	0	0	0	0	0	0	0	0	0	0	0.17
TELLINA MODESTA	0	0	0	0	0	0	0	0	0	1	0	1	0.17
MACOMA SP.	0	0	1	0	0	0	0	0	0	0	0	0	0.08
SILIQUA LUCIDA	0	0	0	0	0	0	0	0	0	0	0	1	0.08
PHORONIDA, UNID.	0	0	0	0	0	0	0	0	0	0	0	1	0.08
PHORONIS SP.	0	0	0	2	0	0	0	0	2	1	0	1	0.50
OPHIUROIDEA, UNID.	0	0	0	0	0	0	1	0	0	0	1	0	0.17
OPHIOPHRAGMUS DIGITATA	0	0	0	0	1	0	0	0	0	1	0	1	0.25



Table III-5. Subtidal infaunal species density (mean number per liter) by replicate, November 1979 (Cont).

28 November, 1979

STATION F1

SPECIES	REPLICATES					MEAN
	1	2	3	4	5	
NEMERTEA, UNID.	3	1	1	0	0	1.00
CARINOMA MUTABILIS	1	4	0	0	1	1.20
PARANEMERTES SP. A	1	0	0	0	0	0.20
MICRURA ALASKANSTIS	0	1	1	0	0	0.40
NEPHTYS CAECOIDES	1	0	1	0	1	0.60
GLYCERA CONVOLUTA	0	0	0	0	1	0.20
GONIADA LITTorea	0	0	1	3	0	0.80
HAPLOSCOLOPLOS ELONGATUS	0	0	0	1	0	0.20
SCOLOPLOS ARMIGER	1	0	8	6	0	3.00
ACESTA CATHERINAE	1	0	2	1	1	1.00
APOPRIONOSPID PYGMAEUS	12	10	27	16	21	17.20
SPIOPHANES BOMBYX	3	1	2	2	1	1.80
SPIOPHANES MISSIONENSIS	0	0	0	1	0	0.20
MEDIOMASTUS AMBISETA	1	0	0	0	0	0.20
AMASTIGOS ACUTUS	17	3	48	54	27	29.80
AMAEANA OCCIDENTALIS	0	0	1	0	0	0.20
HYCNOGONIDA, UNID.	0	0	0	1	0	0.20
CALLIPALLENE PALPIDA	0	0	0	1	0	0.20
EUPHILOMEDES LONGISETA	1	1	0	0	0	0.40
HARPACTICOIDA, UNID.	1	1	0	0	0	0.40
DIASTYLOPSIS TENUIS	0	5	0	0	0	1.00
ECHAUSTORIUS WASHINGTONIANUS	0	3	0	0	1	0.80
PHOTIS SP.	1	0	0	0	0	0.20
JASSA FALCATA	0	1	2	1	2	1.20
RHEPOXYNIUS BICUSPIDATUS	1	0	3	3	2	1.80
RHEPOXYNIUS EPISTOMUS	0	1	0	1	0	0.40
MAJIDAE, UNID.	0	0	0	1	0	0.20
CLIVELLA BAETICA	2	0	0	1	0	0.60
DOTO SP.	1	0	0	0	0	0.20
TELLINA MODESTA	0	1	0	2	1	0.80
MACOMA SP.	0	0	0	1	0	0.20
PERIPLOMA DISCUS	0	0	0	1	0	0.20
HEMICHOORDATA, UNID.	1	2	0	0	0	0.60

Table III-5. Subtidal infaunal species density (mean number per liter) by replicate, November 1979 (Cont).

STATION E2 28 November, 1979

SPECIES	REPLICATES												MEAN
	1	2	3	4	5	6	7	8	9	10	11	12	
ZAOLUTUS ACTIUS	0	0	0	0	0	0	1	0	0	0	0	0	0.08
NEMERTEA, UNID.	0	1	1	1	0	0	1	2	0	0	1	0	0.58
CARINOMA MUTABILIS	0	3	1	1	0	2	0	0	0	0	0	0	0.58
MICRURA ALASKANSIS	1	0	0	0	0	0	0	0	0	0	1	0	0.17
EUSIGALION SPINGSUM	1	0	0	0	0	0	0	0	0	0	0	1	0.17
MESIONELLA MCCULLOCHAE	0	0	0	0	0	0	0	0	0	0	1	0	0.08
TYPOSYLLIS ACICULATA	0	0	0	0	1	1	0	0	0	0	1	0	0.25
NEPHTYS CAECOIDES	2	2	0	0	0	0	0	0	0	1	0	0	0.42
GONIADA LITTOREA	0	0	1	0	0	1	1	1	0	0	0	0	0.33
LUMBRINERIS TETRAURA	1	0	0	0	0	0	0	0	0	0	0	1	0.17
LUMBRINERIS SP.	1	2	0	0	0	0	0	1	0	0	0	0	0.33
DHILONEREIS FALCATA	0	0	0	0	0	0	0	0	0	0	1	0	0.08
HAPLOSCOLOPLOS FLONGATUS	0	0	0	0	1	0	0	0	0	0	0	0	0.08
SCOLOPLOS ARMIGER	1	2	0	0	0	0	1	0	0	0	0	0	0.33
ACESTA CATHERINAE	1	1	3	1	3	5	0	3	0	2	1	1	1.75
PRIONOSPIO CIRRIFERA	0	0	0	0	0	0	1	0	0	0	0	0	0.08
PARAPRIONOSPIO PUNCTATA	0	0	0	0	0	1	1	0	0	0	0	0	0.17
APOPRIONOSPIO PYGMAEUS	0	1	2	0	0	0	0	0	0	3	0	1	0.58
SPIOPHANES ROMBYX	3	2	0	1	0	1	0	2	0	0	0	0	0.75
SPIOPHANES MISSIONENSIS	0	0	1	0	2	0	1	0	0	0	0	0	0.33
MAGELONA SACCULATA	0	1	0	0	0	0	0	0	0	0	0	0	0.08
MAGELONA SP.	0	0	0	0	0	0	0	0	0	1	0	0	0.08
CHAETAZONIA SPINOSA	0	0	0	0	1	0	1	0	0	0	1	0	0.25
CIRRIFORMIA SP.	0	0	0	0	0	0	0	0	1	0	0	1	0.17
MEDIOMASTUS AMBISETA	1	1	0	0	0	0	0	0	0	0	0	0	0.17
MEDIOMASTUS ACUTUS	2	0	0	1	4	0	0	3	1	1	0	0	1.00
MEDIOMASTUS CALIFORNIENSIS	0	2	0	0	2	0	0	1	0	0	1	1	0.58
MEDIOMASTUS SP.	0	0	1	0	0	0	0	0	0	0	0	0	0.08
AMASTIGOS ACUTUS	0	0	0	3	4	4	0	6	0	15	25	5	8.42
PECTINARIA CALIFORNIENSIS	6	2	0	0	1	0	0	1	0	1	1	0	1.00
AMPHARETE LABROPS	0	1	0	0	0	0	0	0	0	0	0	0	0.08
AMAEANA OCCIDENTALIS	0	0	1	1	0	0	0	0	0	0	0	0	0.17
SABELLIDAE, UNID.	0	0	0	0	0	0	1	0	0	0	0	0	0.08
GCLFTINGIA MISAKIANA	0	0	0	0	1	0	0	0	0	0	0	0	0.08
FUPHILOMEDES CARCHARODONTA	2	1	0	0	0	0	1	2	0	0	1	3	0.83
CALANOTDA, UNID.	0	1	0	0	0	0	0	0	0	0	0	0	0.08
CYCLASPIS NUHILA	0	0	0	0	0	0	1	0	0	0	0	0	0.08
CYCLASPIS SP. C	0	0	0	0	0	0	1	0	0	0	0	0	0.08
DIASTYLIPSIS TENUIS	3	1	1	1	1	1	2	0	0	1	1	3	1.25
CAMPYLASPIS SP. C	0	0	0	0	0	0	0	0	0	1	0	0	0.08
BATHYCOPEA GRANULATUS	0	1	0	0	0	0	0	0	0	0	0	0	0.08
EDDTEA SUBLITTORALIS	0	1	0	0	0	0	0	0	0	0	0	0	0.08
AMPELISCA CRISTATA	0	0	0	0	0	1	0	0	0	0	0	0	0.08
MEGALUROPOUS LONGIMERUS	0	0	0	0	0	0	0	0	0	0	0	1	0.08
PHOTIS SP.	1	0	0	0	0	0	0	0	0	0	0	1	0.17
JASSA FALCATA	0	0	1	1	2	2	0	1	0	0	1	0	0.67
RHEPOXYNIUS ABRONIIUS	0	0	0	0	0	0	2	0	0	0	1	0	0.25
RHEPOXYNIUS BICUSPIDATUS	0	0	0	1	0	0	0	0	0	1	0	0	0.17
RHEPOXYNIUS PISTOMUS	2	0	1	2	0	0	3	2	0	2	1	1	1.17
STENOTHOE ESTACOLA	0	0	0	0	1	0	0	0	0	0	0	0	0.08
DEUTHELLA CALIFORNICA	0	0	0	0	0	1	0	0	0	0	1	0	0.17
CAPRELLA CALIFORNICA	0	1	0	0	0	0	0	0	0	0	0	0	0.08
CAPRELLA VERRUCOSA	0	0	0	0	0	0	0	0	0	0	1	0	0.08
FALCIS OLDROYDI	0	0	0	1	0	0	0	0	0	0	0	0	0.08
OLIVELLA HAETICA	7	5	0	6	1	3	0	1	0	1	3	1	2.33
KURTZIELLA PLUMBEA	1	0	0	0	0	0	0	0	0	0	0	0	0.08
RICTAXIS PUNCTOCAELATUS	0	1	0	0	0	0	0	0	0	0	0	0	0.08
SULLOCRETUSA XYSTRUM	0	0	0	1	0	0	0	0	0	0	0	0	0.08
YCLDIA SCISSURATA	0	0	0	1	0	0	0	0	0	0	0	0	0.08
MCDIOLUS NEGLECTUS	0	0	0	0	0	0	2	0	0	0	0	0	0.17
PARVILUCINA TENUISCUPTA	0	0	0	0	1	0	0	0	0	0	0	0	0.08
MYSELLA PEDROANA	0	0	0	0	0	0	0	0	1	0	0	0	0.08
COPREHELLA SUBDIAPHANA	0	0	0	0	0	0	0	0	0	0	2	0	0.17
AMANTIS CALLOSA	0	0	0	0	1	0	0	0	0	1	0	0	0.17
PACTRIDAE, UNID.	0	0	0	0	0	0	0	0	0	0	0	1	0.08
TPELLINA MODESTA	4	2	4	1	1	1	2	0	0	3	2	0	1.67
PERIPLOMA DISCUS	0	2	0	0	0	1	1	0	0	1	0	1	0.50
PHORONIS SP.	1	0	0	1	0	0	0	1	0	0	0	0	0.25
LEPTOSYNAPTA SP.	1	0	0	0	0	0	0	0	0	0	0	0	0.08
HEMICHOERDATA, UNID.	0	0	1	0	0	0	0	0	0	0	0	0	0.08

Table III-5. Subtidal infaunal species density (mean number per liter) by replicate, November 1979 (Cont).

STATION E3 28 November, 1979

SPECIES	REPLICATES												MEAN
	1	2	3	4	5	6	7	8	9	10	11	12	
NEMERTEA, UNID.	2	0	0	1	1	2	2	3	4	0	1	3	1.58
MICRURA ALASKANSIS	1	0	0	0	0	0	0	0	0	0	0	0	0.08
NEMATODA, UNID.	0	0	0	0	0	0	0	0	1	0	0	1	0.17
HARMOTHOE LUNULATA	0	0	0	0	0	1	0	0	0	0	0	0	0.08
FTEONE DILATAE	1	0	0	0	0	0	0	0	0	0	0	0	0.08
TYPOSYLLIS ACICHLATA	1	0	0	0	0	0	1	0	0	0	0	0	0.17
NEPHTYS CAECOIDES	0	1	0	1	0	0	0	2	0	0	0	0	0.33
SPHAERODOPIS BISERTALIS	0	0	0	0	0	0	0	0	1	0	0	0	0.08
GLYCERA CONVOLUTA	0	0	0	0	1	0	1	0	0	1	0	0	0.25
GONIADA BRUNNEA	0	0	0	1	0	0	0	0	0	0	0	0	0.08
GONIADA LITTOREA	0	3	3	0	0	2	0	0	0	1	0	1	0.83
ONUPHIS FREMITA	0	0	0	0	0	0	0	0	0	0	1	0	0.08
ACTHRIA IRIDESCENS	0	0	0	0	0	0	0	1	0	0	0	0	0.08
ONUPHIS SP.	0	0	1	0	0	0	0	0	0	0	0	0	0.08
MARPHYSA SP.	0	0	0	0	0	0	0	0	1	0	0	0	0.08
LUMBRINERIS TETRAURA	3	3	2	3	1	1	0	2	0	1	2	0	1.50
LUMBRINERIS SP.	0	0	0	0	0	1	1	0	0	0	0	0	0.17
HAPLOSCOLOPLOS FLONGATUS	1	0	0	0	0	0	0	0	0	1	0	1	0.25
SCOLOPLOS ARMIGER	1	0	0	0	1	0	0	0	0	0	0	0	0.17
TAUBERIA OCVLATA	0	0	0	0	0	0	0	0	0	0	0	1	0.08
ARICIDEA MASSI	0	1	0	2	0	0	0	0	0	0	0	0	0.25
AEDICIRA PACIFICA	0	0	0	0	0	0	1	0	0	0	0	0	0.08
ACESTA CATHERINAE	2	1	1	7	0	4	3	1	6	3	2	2	2.58
DISPID UNCINATA	0	0	0	0	0	0	0	1	0	0	0	0	0.08
PRIONOSPION CIRMIFERA	0	0	0	0	0	1	0	0	1	0	0	4	0.50
PRIONOSPION MALMGRENII	0	0	0	0	1	0	0	0	0	0	0	0	0.08
PARAPRIONOSPION PINNATA	1	0	0	1	1	0	0	0	0	0	0	0	0.25
APOPRIONOSPION PYGMAEUS	3	0	1	1	0	5	1	1	0	1	2	3	1.50
SPIOPHANES BOMBYX	0	0	1	0	3	0	3	1	2	0	0	0	0.83
SPIOPHANES MISSIONENSIS	0	0	1	0	0	0	0	0	1	0	0	0	0.17
SPIOPHANES ANOCULATA	0	0	0	0	0	0	0	0	0	0	1	0	0.08
PHYNCHOSPION SP.	0	0	0	1	0	0	0	0	0	0	0	0	0.08
MAGELONA SACCOLATA	3	0	2	4	0	1	0	3	0	2	1	0	1.33
CHAETAZONE SETOSA	4	0	0	4	4	2	0	1	2	3	1	2	1.92
THARYX SP.	0	1	0	0	0	0	0	0	0	0	0	0	0.08
MEDIOMASTUS AMBISETA	15	3	10	15	0	11	8	3	2	17	2	3	7.42
MEDIOMASTUS ACUTUS	0	0	1	2	0	4	3	3	3	0	0	2	1.92
MEDIOMASTUS CALIFORNIENSIS	8	0	0	0	0	0	4	0	0	4	0	3	1.58
AMASTIGOS ACUTUS	0	0	0	0	0	0	0	0	3	0	0	0	0.25
PRAXILLELLA AFFINIS PACIFICA	0	0	0	0	0	1	0	0	0	0	0	0	0.08
PECTINARIA CALIFORNIENSIS	1	0	0	0	0	0	0	0	1	0	0	0	0.17
AMPHARETE LAHRUPS	0	0	0	0	0	0	0	0	0	0	0	3	0.25
AMAEANA OCCIDENTALIS	0	0	0	0	0	0	0	0	1	1	0	1	0.25
PISTA FASCIATA	0	0	0	0	0	0	0	1	0	0	0	0	0.08
GOLFINGIA MISAKIANA	0	0	0	0	0	0	0	0	1	0	0	0	0.08
CYLINDROFRERIDIDAE, UNID.	1	0	0	0	0	0	0	0	0	0	0	0	0.08
FUPHILOMEDES CARCHARODONTA	0	0	0	0	0	0	1	0	0	0	0	0	0.08
CYCLOLERFRIS AMERICANA	0	0	0	0	0	1	1	0	0	0	0	0	0.17
VARGULA AMERICANA	0	0	0	0	0	1	0	0	0	0	0	0	0.08
CALANOIDA, UNID.	0	0	1	0	0	0	0	0	0	0	0	0	0.08
CYCLASPIS NUBILA	0	0	0	0	0	0	0	0	1	0	0	0	0.08
CYCLASPIS SP. C	0	1	0	0	0	0	0	0	0	0	0	0	0.08
ARCHICOLURUS OCCIDENTALIS	1	0	0	0	0	0	0	0	0	0	0	0	0.08
DIASTYLOPSIS TENUIS	0	1	1	0	0	0	0	0	0	1	0	0	0.25
HEMILAMPROS CALIFORNICA	0	1	0	0	0	0	0	0	0	0	0	0	0.08

Table III-5. Subtidal infaunal species density (mean number per liter) by replicate, November 1979 (Cont).

STATION E3 (CONT). 28 November 1979

SPECIES	REPLICATES												MEAN
	1	2	3	4	5	6	7	8	9	10	11	12	
CAMPYLASPIS SP. C	0	0	0	0	0	1	0	0	0	0	0	0	0.08
GXYUROSTYLIS PACIFICA	0	0	0	0	0	0	0	0	0	0	1	0	0.08
LEPTOCHELIA SP.	0	0	0	1	0	0	0	0	0	0	0	0	0.08
GAATHIA SP.	0	0	0	0	0	1	0	0	0	0	0	0	0.08
EXUSPHEROMA RHOMBURUM	1	0	0	0	0	0	0	0	0	0	0	0	0.08
FOOTEA SUBLITTORALIS	2	0	0	0	0	0	0	0	0	0	0	0	0.17
AMPELISCA CHRISTATA	0	1	0	0	0	1	2	1	0	1	0	1	0.58
AMPELISCA COMPRESSA	0	0	1	0	0	0	0	0	0	0	0	0	0.08
ACUMINODEUTOPUS HETERORIPUS	0	0	0	0	1	0	0	0	0	0	0	0	0.08
MEGALURIPUS LONGIFERUS	0	0	1	0	0	0	0	0	0	0	0	0	0.08
PHOTIS SP.	0	0	1	0	0	0	0	0	1	0	0	0	0.17
PHOTIS MACROGICA	0	0	0	0	0	0	0	0	1	0	0	0	0.08
JASSA FALCATA	0	0	0	0	1	0	0	0	0	0	0	0	0.08
PACHYNUS BARNARDI	0	0	0	0	0	0	1	0	0	0	0	0	0.08
LEPIDOPECREUM GURJANOVAE	0	2	0	0	0	0	1	0	0	0	0	0	0.25
SYNCHLIDIUM SP.	0	0	0	0	0	0	0	1	0	0	0	0	0.08
RHEPOXYNIUS ARRONIUS	1	0	0	0	0	0	0	0	0	0	0	0	0.08
RHEPOXYNIUS EPISTOMUS	0	0	0	0	0	1	1	0	0	0	0	0	0.17
TIRON TROPAKIS	2	1	1	0	1	1	0	0	0	0	0	0	0.50
CAPRELLIDAE, UNID.	0	0	0	0	1	0	0	0	0	0	0	0	0.08
CALLIANASSA SP.	1	0	0	1	0	1	0	0	0	0	0	1	0.33
PINNIXA SP.	0	0	0	0	0	0	0	0	0	0	0	1	0.08
NASSARIUS PERPINGUIS	0	1	0	0	1	0	0	0	1	0	0	0	0.25
CLIVELLA HAETICA	2	1	0	0	1	0	2	0	2	0	1	0	0.75
ORBONILLA SP. M	0	1	0	0	0	0	0	0	0	0	0	0	0.08
PARVILUCINA TENUSCULPTA	0	0	0	0	1	0	0	0	0	0	0	0	0.08
MYSELLA PEDROANA	0	0	0	0	1	0	0	0	0	0	0	0	0.08
TELLINA MODESTA	1	1	1	0	1	0	0	1	0	0	0	0	0.42
SILIQUA LUCIDA	0	1	0	0	0	0	0	0	0	0	0	0	0.08
PHORONIDA, UNID.	0	0	0	0	0	0	1	0	0	0	0	0	0.08
PHORONIS SP.	0	0	0	1	0	0	0	0	0	0	1	0	0.17
CPHIURCIDEA, UNID.	0	0	0	0	1	0	0	0	0	0	0	0	0.08
CPHIOPHRAGMUS DIGITATA	1	2	0	0	0	0	0	0	0	0	0	0	0.25
CPHIOPHRAGMUS URTICA	0	0	0	0	0	0	0	1	0	0	0	0	0.08
CPHIOPHRAGMUS SP.	0	0	0	0	0	1	0	0	0	0	0	0	0.08
HEMICHORDATA, UNID.	0	0	0	0	1	0	1	1	1	0	0	1	0.42

Table III-5. Subtidal infaunal species density (mean number per liter) by replicate, November 1979 (Cont).

28 November 1979

STATION F1

SPECIES	REPLICATES					MEAN
	1	2	3	4	5	
PLATYHELMINTHES, UNID.	0	0	0	1	1	0.40
NEMERTEA, UNID.	2	4	0	2	1	1.80
CARINOMA MUTABILIS	0	0	1	1	0	0.40
PARANEMERTES SP. A	0	1	0	0	0	0.20
EUSTIGALION SPINOSUM	0	0	0	0	1	0.20
FUMIDA SP.	1	1	0	0	0	0.40
TYPOSYLLIS ACICULATA	0	0	1	1	0	0.40
NEPHTYS CAECOIDES	1	0	0	0	1	0.40
GLYCERA CONVOLUTA	0	0	1	0	0	0.20
LUMBRINERIS LATREILLI	0	1	0	0	0	0.20
LUMBRINERIS SP.	0	0	0	2	2	0.80
HAPLOSCOLOPLOS FLONGATUS	0	1	0	0	0	0.20
SCOLOPLOS ARMIGER	4	1	2	5	0	2.40
PARAONIDAE, UNID.	1	0	0	0	0	0.20
APOPHRONOSPID PYGMAEUS	14	4	5	5	3	6.20
SPIOPHANES BOMBYX	1	3	0	1	1	1.20
SPIOPHANES MISSIONENSIS	0	1	0	0	0	0.20
MAGELONA PITEUKAI	0	1	0	0	1	0.40
CIRRATULIDAE, UNID.	1	0	0	0	1	0.40
MEDIOMASTUS ACUTUS	0	1	0	1	0	0.40
NOTOMASTUS TENUIS	0	0	0	2	1	0.60
AMASTIGOS ACUTUS	26	2	2	25	0	11.00
CWENIA COLLARIS	0	0	1	0	0	0.20
AMPHARETE LABROPS	0	0	0	1	0	0.20
EUPHILOMEDES LONGISETA	0	3	0	0	1	0.80
DIASTYLOPSIS TENUIS	2	2	0	1	2	1.40
LEPTOCUMA FORSMANI	4	0	0	0	1	1.00
ECHAUSTORIUS WASHINGTONIANUS	0	5	0	2	1	1.60
JASSA FALCATA	5	1	0	1	8	3.00
SYNCHELIDIUM SP.	1	0	0	0	0	0.20
PHOXOCEPHALIDAE, UNID.	2	0	0	0	1	0.60
RHEPOXYNIUS RICUSPIDATUS	2	0	2	1	0	1.00
RHEPOXYNIUS EPISTOMUS	1	1	1	4	0	1.40
DEUTELLA CALIFORNICA	0	0	0	0	1	0.20
PINNIXA SP.	0	1	0	0	0	0.20
LEPIDOPA CALIFORNICA	0	0	0	0	1	0.20
EPITONIUM CALIFORNICUM	0	1	0	2	0	0.60
OLIVELLA BAETICA	1	0	0	0	0	0.20
CYCLOSTREMELLA DALLI	1	0	0	0	0	0.20
MYTILIDAE, UNID.	0	0	0	1	0	0.20
TELLINA MODESTA	0	1	0	0	1	0.40
MACOMA SP.	0	0	0	0	1	0.20

Table III-5. Subtidal infaunal species density (mean number per liter) by replicate, November 1979 (Cont).

STATION F2 28 November 1979

SPECIES	REPLICATES												MEAN
	1	2	3	4	5	6	7	8	9	10	11	12	
ZAOLUTUS ACTIUS	0	0	0	0	0	0	0	0	0	0	1	0	0.08
NEMERTEA, UNID.	0	1	1	4	2	2	0	2	3	1	4	0	1.67
CARINOMA MUTABILIS	0	1	0	1	0	0	1	2	0	0	1	2	0.67
PARAMERTEA SP. A	1	0	0	0	0	0	0	0	0	0	0	0	0.08
FUSIGALION SPINOSUM	0	0	0	0	0	1	0	0	2	1	0	0	0.33
EUSYLLIS TRANSECTA	0	0	1	0	0	0	0	0	0	0	0	0	0.08
TYPOSYLLIS ACICULATA	0	0	0	0	0	3	0	0	0	0	1	1	0.42
NEPHTYS CAECOIDES	1	2	0	2	0	0	0	0	0	1	1	0	0.58
GLYCERA CONVOLUTA	0	0	0	1	0	0	0	0	0	0	0	0	0.08
GLYCINDE ARMIGERA	0	0	0	0	0	1	0	0	0	0	0	0	0.08
GONIADA LITTOREA	2	2	0	1	0	1	1	1	0	3	1	0	1.00
DIOPATRA SPLENDIDISSIMA	0	0	0	0	1	0	0	0	0	0	0	0	0.08
NCTHRIA IRIDESCENS	0	0	0	0	0	0	1	0	0	0	0	0	0.08
LUMBRINERIS TETRAUNA	0	0	1	1	0	0	0	0	0	0	0	0	0.17
LUMBRINERIS SP.	1	0	0	0	0	0	0	0	0	0	0	0	0.08
LUMBRINERIS PALLIDA	0	0	0	0	0	0	0	0	0	0	0	1	0.08
PARALEPIS FIMBRIATA	0	0	0	0	0	0	0	0	0	0	1	0	0.08
HAPLOSCOLOPLOS ELONGATUS	0	0	0	0	2	0	0	0	0	0	0	1	0.25
SCOLOPLOS ARMIGER	1	2	0	0	1	1	0	1	0	1	2	0	0.75
ARICIOEA WASSI	0	0	0	0	1	0	0	0	0	0	0	0	0.08
ACESTA CATHERINAE	1	4	0	2	8	4	0	2	2	1	1	4	2.42
PCLYDORA LIGNI	0	2	0	0	0	0	0	0	0	0	0	0	0.17
PCLYDORA SP.	0	0	0	0	2	0	0	0	0	0	0	0	0.17
PHIONOSPIO CIRRIFERA	0	0	0	0	0	0	0	0	0	0	1	0	0.08
PARAPRIONOSPIO PINNATA	0	0	0	0	0	0	0	0	0	0	0	1	0.08
APRIONOSPIO PYGMAEUS	0	0	0	0	1	0	0	0	0	1	0	0	0.17
SPIOPHANES ROMBYX	0	0	1	1	0	0	0	1	1	1	1	1	0.58
SPIDICHAETOPTERUS CUSTARUM	1	0	0	0	1	0	0	0	0	0	0	0	0.17
CIRRIFORMIA SPIRARRANCHA	0	1	0	0	0	0	0	0	0	0	0	1	0.17
MEDIOMASTUS AMHISETA	0	1	0	0	0	1	0	0	0	0	0	0	0.17
MEDIOMASTUS ACUTUS	1	1	0	0	1	2	5	0	1	2	1	1	1.25
MEDIOMASTUS CALIFORNIENSIS	2	0	0	0	0	0	0	0	1	2	0	0	0.42
MEDIOMASTUS SP.	0	1	0	0	0	0	0	0	0	0	0	0	0.08
AMASTIGUS ACUTUS	73	33	8	2	93	13	2	25	1	96	34	0	31.67
OWENIA COLLARIS	0	0	0	0	1	0	1	0	0	0	0	1	0.25
PFCINARIA CALIFORNIENSIS	0	0	0	0	0	0	0	1	0	0	0	0	0.08
AMPHARETE LABROPS	0	0	0	0	2	1	0	0	2	1	0	0	0.50
AMAFANA OCCIDENTALIS	1	1	1	0	0	0	0	0	1	2	1	0	0.58
SABELLIDAE, UNID.	0	0	0	1	0	0	0	0	0	0	0	0	0.08
CHONE MOLLIS	1	0	0	0	0	0	0	0	0	0	0	0	0.08
EUPHILMIFIDES LONGISETA	1	1	0	0	2	0	0	0	0	0	3	0	0.58
CYCLASPIS NUBILA	0	0	1	0	0	0	0	0	0	1	0	0	0.17
DIASTYLOPSIS TENUIS	3	0	2	1	1	1	2	0	0	1	4	0	1.25
BATHYCOPEA GRANULATUS	0	0	0	0	0	0	0	0	0	0	1	0	0.08
MUNNA URIQUITA	0	1	0	0	0	0	0	0	0	1	0	0	0.17
AGROIDES COLUMBIAE	0	1	0	0	0	0	0	0	1	0	0	0	0.17
CERAPUS TURULARIS	0	0	0	0	1	0	0	0	0	0	0	0	0.08
FRICHTONIUS BRASILIENSIS	0	0	0	0	0	0	1	1	0	0	0	0	0.17
JASSA FALCATA	7	11	51	1	9	5	1	2	1	1	2	1	7.67
PACHYNUSS BARNARDI	0	0	0	0	0	0	0	0	0	0	1	0	0.08
PHOXOCEPHALIDAE, UNID.	0	0	0	0	0	0	0	1	0	0	0	0	0.08
RHEPOXYNIUS ABRONIUS	1	0	0	0	0	0	0	0	0	0	0	0	0.08
RHEPOXYNIUS EPISTOMUS	4	1	0	0	5	0	2	0	2	1	0	0	1.42
GAMMARIDAE, UNID.	0	0	0	1	0	0	0	0	0	0	0	0	0.08
CAPRELLA CALIFORNICA	0	1	0	0	0	0	0	0	0	0	0	0	0.08
EPITONIUM CALIFORNICUM	3	0	0	0	0	0	0	0	0	0	0	0	0.25
CREPIDULA SP.	0	13	0	0	2	0	0	0	0	0	0	0	1.25
OLIVELLA BAETICA	0	0	0	0	0	0	0	0	0	1	0	0	0.08
CLIVELLA SP.	1	0	0	0	0	0	0	0	0	0	0	0	0.08
KURTZIELLA PLUMBEA	0	1	0	0	0	0	0	0	0	0	0	0	0.08
RICTAXIS PUNCTOCELATUS	1	0	0	0	0	0	0	0	0	0	0	1	0.17
ACTEOCINA INCULTA	1	0	0	0	0	0	0	0	0	0	0	0	0.08
TURBONILLA SP. A	1	0	0	0	0	0	0	0	0	0	0	1	0.17
CYCLOSTREMELLA DALLI	1	0	0	0	0	0	0	0	0	0	0	0	0.08
YCLOIA SCISSURATA	0	0	0	1	0	0	0	0	0	0	0	0	0.08
MCDIOLUS NEGLECTUS	0	0	0	0	1	0	0	0	0	0	0	0	0.08
MYTILIDAE, UNID.	2	2	0	0	2	0	0	0	0	1	1	1	0.75
LEPTOPECTEN LATIAURATUS	0	0	0	0	0	0	0	0	0	0	1	0	0.08
PARVILUCINA TENUISCULPTA	0	1	0	0	0	0	0	0	0	0	0	0	0.08
NEAEROMYA COMPRESSA	0	0	0	0	0	0	0	0	0	1	0	0	0.08
TELLINA MODESTA	4	5	1	1	4	0	1	0	0	1	4	1	1.83
PERIPLOMA DISCUS	0	0	0	0	0	1	0	0	0	0	0	0	0.08
HEMICHORDATA, UNID.	0	0	0	1	0	0	0	0	0	0	0	0	0.08

Table III-5. Subtidal infaunal species density (mean number per liter) by replicate, November 1979 (Cont).

STATION F3 28 November 1979

SPECIES	REPLICATES												MEAN
	1	2	3	4	5	6	7	8	9	10	11	12	
EDWARDSIIDAE, UNID.	0	1	0	0	0	0	0	0	0	0	0	0	0.08
ISOEDWARDSIA SP. A	0	0	0	0	0	1	0	0	0	0	0	0	0.08
PLATYHELMINTHES, UNID.	0	0	0	0	0	0	0	0	0	0	0	1	0.08
NEMERTEA, UNID.	1	1	0	1	2	0	1	3	0	2	0	3	1.17
CARINOMA MUTABILIS	0	1	0	0	0	0	0	0	1	0	1	1	0.33
PARANEMERTES SP. A	0	0	0	0	0	1	0	0	0	0	0	0	0.08
MICRURA ALASKANSIS	0	1	0	0	0	0	0	0	0	0	0	0	0.08
HALOSYDNA LATIOR	0	0	0	0	0	0	0	1	0	0	0	0	0.08
HARMOTHOE LUNULATA	0	0	0	0	0	0	0	0	1	0	0	0	0.08
HARMOTHOE PRIOPS	0	0	0	0	0	0	0	0	1	0	0	0	0.08
EUSICALION SPINOSUM	0	0	0	0	1	0	1	0	0	2	0	1	0.25
GYPTIS BREVIPALPA	0	0	0	0	0	0	0	1	0	0	0	0	0.08
HESIONELLA MCCULLOCHAE	1	0	0	0	0	0	0	0	0	1	0	0	0.17
TYPOSYLLIS ACICULATA	1	2	3	1	0	0	0	2	0	0	1	1	0.92
NERFIS PROCERA	0	0	0	0	0	0	0	0	0	2	0	0	0.17
NEREIS SP.	0	0	0	0	0	0	0	0	4	0	0	0	0.33
NEPHTYS CAECOIDES	0	0	0	0	0	0	0	0	0	1	0	0	0.08
NEPHTYS CORNUTA FRANCISCANA	0	1	2	0	0	2	0	0	0	0	2	3	0.83
GLYCERA CONVOLUTA	1	0	1	0	0	1	0	0	0	0	0	0	0.25
GLYCINDE ARMIGERA	1	0	0	0	0	0	0	0	1	0	0	0	0.17
GONIADA BRUNNEA	0	0	0	1	0	0	0	0	0	0	0	1	0.17
GONIADA LITTORFA	0	2	5	2	3	1	1	4	1	0	1	2	1.83
NOTHIA IRIDESCENS	0	0	0	0	0	0	0	1	0	0	1	0	0.17
LUMBRINERIS LATREILLI	0	0	0	0	2	0	0	0	0	0	0	1	0.25
LUMBRINERIS TETRAURA	5	6	1	2	5	1	2	7	1	1	2	6	3.25
ARARELLIDAE, UNID.	0	0	0	0	0	0	0	0	0	1	0	0	0.08
ACTOCIRRUS CALIFORNIENSIS	1	0	0	0	0	0	0	0	0	0	0	0	0.08
HAPLOSCOLOPLOS ELONGATUS	0	0	0	0	0	0	0	1	0	0	0	0	0.08
SCOLOPLOS ARMIGER	1	0	1	0	0	0	0	0	0	0	1	2	0.42
TAUBERIA OCVLATA	0	0	0	0	0	0	0	0	0	0	0	2	0.17
CIRROPHORUS FURCATUS	0	0	0	0	0	0	0	0	0	1	0	0	0.08
ARICIDEA WASSI	0	1	0	0	0	0	0	0	0	0	0	0	0.08
ACESTA CATHERINAE	0	3	0	1	3	1	0	0	0	0	0	2	0.83
ACESTA MORIKOSHII	0	1	0	0	0	0	0	0	0	0	0	0	0.08
LAONICE CIRRATA	0	0	0	1	0	0	0	0	0	0	0	0	0.08
PRIONOSPIO CIRRIFERA	0	0	0	0	0	0	0	0	0	0	0	1	0.08
PARAPRIONOSPIO PINNATA	0	1	0	2	0	0	2	0	1	0	0	1	0.58
APOPRIONOSPIO PYGMAEUS	0	0	2	0	0	2	0	0	0	0	0	2	0.50
SPIOPHANES BOMBYX	0	0	1	1	0	0	0	0	0	0	0	0	0.17
SPIOPHANES MISSIONENSIS	1	0	0	0	0	0	0	1	0	0	0	0	0.17
SPIOPHANES SP.	0	0	1	0	0	0	0	0	0	0	0	0	0.08
SPIOPHANES BERKELEYORUM	0	0	0	0	0	0	0	0	0	0	1	0	0.08
POFCILOCHAETUS JOHNSONI	0	0	0	1	0	0	0	0	0	0	0	0	0.08
SPIOCHAETOPTERUS COSTARUM	1	0	1	0	0	0	1	0	0	0	0	0	0.25
CHAETOZONF SETOSA	1	3	0	2	2	1	0	1	0	0	0	0	0.83
THARYX SP.	0	1	0	0	0	1	1	1	2	2	1	1	0.83
CCSSURA CANDIDA	0	1	0	0	0	0	0	0	0	0	0	0	0.08
MEDIOMASTUS AMBISETA	0	2	2	2	5	2	0	0	0	0	4	1	1.50
MEDIOMASTUS ACUTUS	1	2	3	0	7	0	1	2	0	0	10	2	2.33
NOTOMASTUS TENUIS	0	0	0	0	0	0	1	1	0	0	0	0	0.17
ANOTOMASTUS GORDIODES	0	0	0	0	0	0	0	0	0	0	1	3	0.33
ASYCHIS DISPARIDENTATA	0	0	0	1	1	0	0	1	1	0	0	0	0.33
AXIOTHELLA RUBROCIINCTA	0	0	0	1	1	0	0	0	0	0	0	0	0.17
AMPHARETE LABROPS	0	0	1	0	0	0	0	0	1	0	0	0	0.17
AMPHICTEIS SCAPHORANCHIATA	0	0	0	1	0	0	0	0	0	0	0	0	0.08

Table III-5. Subtidal infaunal species density (mean number per liter)  
by replicate, November 1979 (Cont).

STATION F3 (CONT). 28 November 1979

SPECIES	REPLICATES												MEAN
	1	2	3	4	5	6	7	8	9	10	11	12	
AMAEANA OCCIDENTALIS	1	0	0	0	0	0	0	0	0	0	0	0	0.08
PISTA FASCIATA	0	0	0	0	0	0	0	0	0	0	1	0	0.08
POLYCIRRUS PERPLEXUS	0	0	0	0	1	0	0	0	2	0	0	1	0.33
SAHELLIDAE, UNID.	0	0	0	0	0	0	0	0	0	0	1	0	0.08
EUCHONE INCOLOR	0	2	3	2	0	0	0	0	0	0	0	2	0.75
CHONE VETERONIS	0	0	0	0	0	0	1	0	0	0	0	0	0.08
CYLINDROFBERIDIDAE, UNID.	0	1	0	0	0	0	0	0	0	0	0	0	0.08
DIASTYLOPSIS TENUIS	0	0	2	2	0	0	0	0	1	0	1	2	0.67
HEMILAMPROPS CALIFORNICA	0	0	1	0	0	0	0	0	0	0	0	0	0.08
CUMELLA SP. A	0	0	0	0	1	0	0	1	0	0	0	0	0.17
OXYUROSTYLIS PACIFICA	0	0	1	0	0	0	0	1	0	0	0	0	0.17
CUMELLA SP. E	0	0	1	1	0	0	0	0	0	0	0	0	0.17
AMPELISCA CRISTATA	1	1	0	1	2	0	0	3	0	2	2	1	1.08
AGROIDES COLUMBIAE	0	0	0	0	1	0	0	0	0	0	0	0	0.08
ACUMINODUTOPUS HETERURDOPUS	0	0	1	0	1	0	0	2	1	0	0	0	0.42
AMPHIDEUTOPUS OCHLATUS	0	0	0	0	1	0	0	0	0	1	0	0	0.17
CERAPUS TUBULARIS	0	0	0	1	0	0	0	0	0	0	1	1	0.25
JASSA FALCATA	7	8	10	5	9	2	6	0	0	1	1	3	11.92
LISTRIELLA ERIOPISA	0	0	0	0	0	0	0	0	1	0	0	0	0.08
LISTRIELLA DIFFUSA	0	0	1	0	0	0	0	0	0	0	0	0	0.08
PACHYNUS BARNARDI	0	0	0	0	0	0	0	0	0	0	0	1	0.08
MELPHISANA BOLA	0	0	1	0	0	0	0	0	0	0	0	0	0.08
SYNCHELIDIUM SP.	0	1	2	0	0	0	0	0	0	0	0	0	0.25
RHEPOXYNIUS ABRONIUS	0	0	1	0	1	0	0	1	0	0	0	0	0.25
RHEPOXYNIUS EPISTOMUS	3	1	3	2	1	0	2	3	3	2	1	1	1.83
PARAPHOXUS STENODES	0	0	0	0	0	0	0	0	0	1	0	0	0.08
TIRON BIOCELLATA	0	0	0	0	1	0	0	0	0	0	0	0	0.08
GAMMARIDFA, UNID.	0	0	0	0	0	0	0	1	0	0	2	0	0.25
CALLIANASSA SP.	0	0	0	0	0	0	0	0	0	0	1	0	0.08
PINNIXA SP.	0	0	0	0	0	0	0	1	0	0	0	0	0.08
CREPIDULA NATICARUM	0	0	0	1	0	0	0	0	0	0	0	0	0.08
ASSARIUS PERPINGUIS	0	0	0	1	0	0	0	0	0	0	0	0	0.08
OLIVELLA BAETICA	0	0	5	0	0	0	0	1	0	0	0	1	0.58
KURTZIELLA BETA	0	0	1	0	0	0	0	0	0	0	0	0	0.08
SULCORETUSA XYSTRUM	0	0	1	0	0	0	0	0	0	0	0	0	0.08
ACTEONINA INCULTA	0	0	0	0	0	0	0	1	0	0	0	0	0.08
VOLVULELLA CYLINDRICA	1	0	0	0	0	0	0	0	0	0	0	0	0.08
AGLAJA DIOMEDEA	0	0	0	0	0	0	0	0	0	0	1	0	0.08
YCLDIA SCISSURATA	0	1	0	0	0	0	0	0	0	0	0	0	0.08
MYSELLA PEDROANA	0	0	0	0	0	0	0	1	0	0	0	0	0.08
NAEROMYA COMPRESSA	0	0	0	0	0	0	0	2	0	0	1	0	0.25
COOPERELLA SURDIAPHANA	0	0	0	0	0	0	1	0	1	0	0	0	0.17
TELLINIDAE, UNID.	0	0	0	0	1	0	0	0	0	0	0	0	0.08
TELLINA MODESTA	7	1	2	2	2	0	0	3	1	1	1	1	1.75
MACOMA ACOLASTA	0	0	0	0	0	0	0	0	0	1	0	0	0.08
ENSIS MYRAE	0	0	0	0	0	0	0	0	0	1	0	0	0.08
SILIOUA LUCIDA	0	0	0	0	0	0	0	0	0	1	0	0	0.08
PHORONIS SP.	0	1	1	0	1	1	0	0	0	0	1	0	0.42
GLOTTIDIA ALBIDA	0	0	0	0	0	0	1	0	0	0	0	0	0.08
ASTROPECTEN VERRILLI	0	0	0	0	0	0	0	1	0	0	0	0	0.08
HEMICHORDATA, UNID.	0	2	1	0	0	0	2	1	1	1	0	1	0.75



Table III-6. Miscellaneous subtidal observations.

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 Miscellaneous Subtidal Observations
 

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Station A-1, 13 February 1979: Sampled at 300°, 10 m from wheel. Wheel sitting on cobble.

Station B-1, 15 February 1979: Temperature not obtainable due to absence of light. Ripple mark information not noted due to lack of visibility and absence of light. Buoy missing. Mini-ranger inoperative. Station located by fathometer and visual fix as near as possible to last known station location. Sweeps did not relocate monuments or buoy anchor wheels. Samples for subtidal infauna picked up 22 February at 1013.

Station C-1, 14 February 1979: Ripple mark information not noted due to lack of visibility.

Station A-1, 22 May 1979: Bottom all cobble, could not measure ripple marks.

Station C-3, 22 May 1979: no max-min thermometer installed (broke during installation). Lower sediment trap and trap holder mangled, need replacement.

Station D-3, 23 May 1979: Could not find station. Buoys missing.

Station E-2, 21 May 1979: Carbon bags labelled \*E-2. Those labelled E-2 without asterisk are actually from F-2.

Station E-3, 21 May 1979: No max-min. Thermometer broken.

Station F-1, 21 May 1979: Carbon F-1 #1 in bag labelled F-2 #8.

Station F-2, 21 May 1979: F-2 carbons in bags reading E-2.

Station A-1, 29 August 1979: Trap sitting on cobble bottom about 5 m on 270° to nearest sediment.

Station A-2, 30 August 1979: 10.4 m 160° from wheel to station. Large mass of Macrocystis and Egrecia accumulated around top of monument. Several large Macrocystis growing on buoy line.

Station C-1, 30 August 1979: Wheel to trap 225° 14.2 m.

Station D-2, 29 August 1979: 16.2 m at 180° trap to new wheel.

Station F-1, 28 August 1979: 270° from wheel to sediment trap.

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#### IV. KELP BED BIOLOGY STUDY

The kelp bed biology investigations were initiated to monitor the health of the kelp beds in the San Onofre region during the construction phase of SONGS Units 2 and 3.

##### SAMPLING METHOD

##### Kelp Bed Areal Mapping Methods

The areal extent of the San Mateo, San Onofre, and Barn kelp beds were mapped quarterly by ECOSystems Management Associates, Inc., using a side-scanning sonar, down-looking sonar, and a Motorola Miniranger positioning device. During each survey, vessel tracks were run using pre-plotted Miniranger courses. The vessel crisscrossed the entire kelp bed with tracks approximately 100 m apart on the longshore axis and 200 m apart on the onshore-offshore axis.

After the completion of each survey, shipboard computer tapes containing range to range data were transferred to a CDC 600 Computer file and vessel tracks plotted by computer. Side-scanning sonar and down-looking sonar records were then manually interpreted with regard to areal extent. Areal extent of the individual canopies was estimated using a planimeter.

To supplement the electronic kelp mapping surveys, infrared photographs of individual canopies were taken monthly (weather permitting). Photographs were taken from altitudes of 10,000 to 11,000 ft with a 35 mm camera mounted in the floor of the airplane. The infrared photographs are on file at Marine Biological Consultants, Inc., and Southern California Edison Company.

##### Water Column Nutrients

Nutrient concentrations of phosphates ( $PO_4$ ), nitrogen ( $NO_2 + NO_3$ ), and ammonia ( $NH_4$ ) were determined monthly in the surface and bottom waters in the center and approximately 100 m outside and upcoast of the San Mateo, San Onofre and Barn kelp beds. In addition, the concentrations of the three nutrients were determined at depths of surface, 16, 32, and 48 m at a station approximately 4.3 km offshore of the San Onofre kelp bed and in a depth of 64 m. The program design provided for an examination of nutrient conditions in and adjacent to the kelp beds under investigation, and a station to monitor upwelling conditions offshore of the study area.

Water samples at each station were collected with a Van Dorn bottle. Collected samples were chilled in an ice chest and returned to the laboratory where they were frozen until analysis. Nutrient analysis was performed using standard spectrophotometric procedures outlined in Strickland and Parsons (1968). Data is presented in Volume I Oceanography (80-RD-10).

##### Kelp Leaf Nutrients

Kelp leaves, for the determination of nitrogen content, were collected concurrently with water column nutrient samples at the San Mateo, San Onofre, and Barn kelp beds. Every 10th leaf on an individual stipe beginning with the sporophyll frond (reproductive portion of the kelp plant located at the base of

the plant) was detached and placed in an individual collecting bag and the depth recorded. Kelp leaves were returned to the laboratory where all encrusting organisms were removed, the leaves dried, and ground. The nitrogen content ( $\text{NO}_2 + \text{NO}_3$ ) of each leaf was then determined by Kjeldahl nitrogen analysis as described in Standard Methods (Rand et al. 1976).

Literature Cited

Rand, M. D., A. E. Greenberg, and M. J. Taras. 1976. Standard methods for the examination of water and wastewater. American Public Health Association, Washington, D.C.

Strickland, J. D. H., and T. A. Parsons. 1968. A practical handbook of seawater analysis. J. Fish. Res. Bd. Canada Bull. 167.

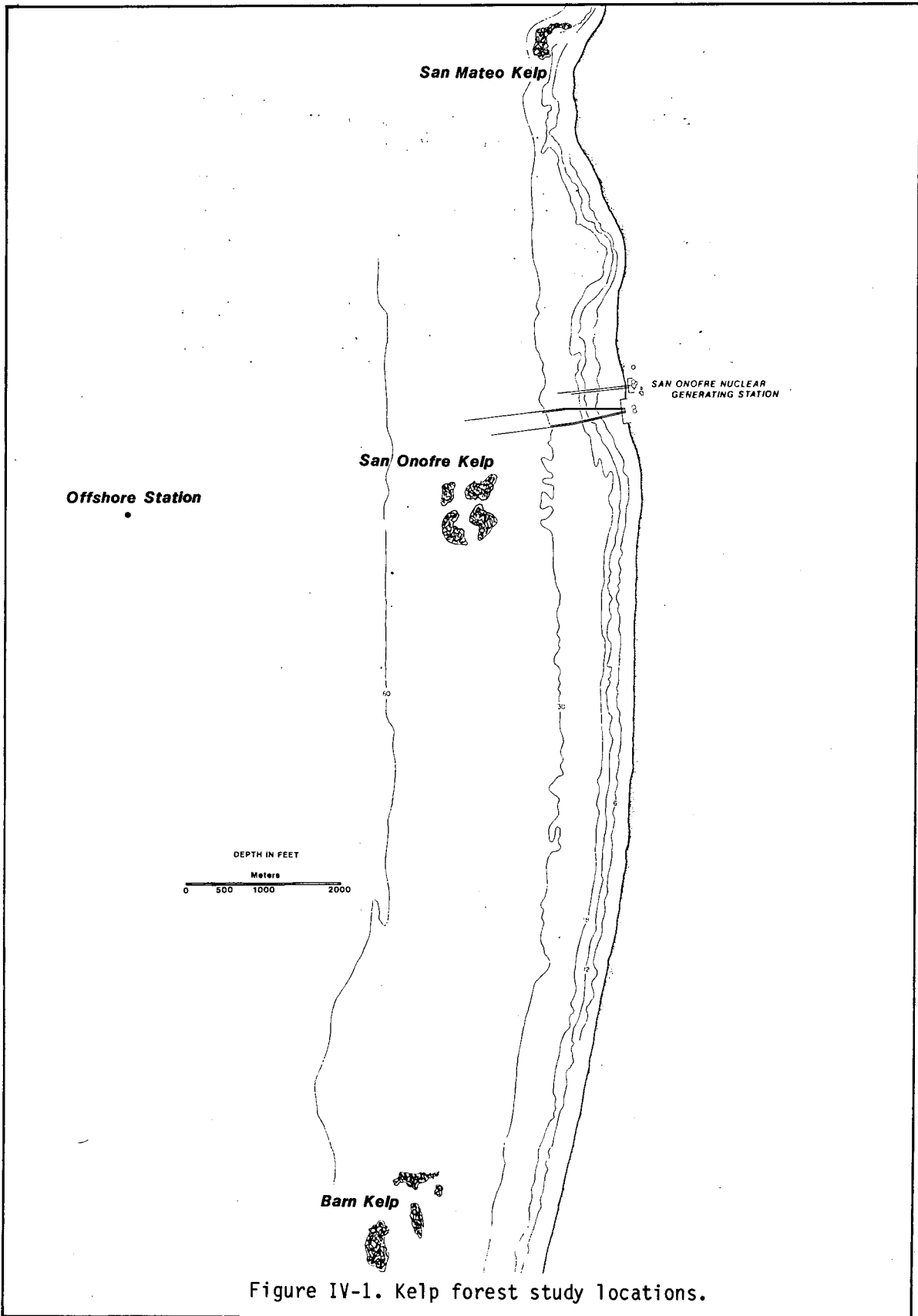


Figure IV-1. Kelp forest study locations.

Table IV-1. Estimated areal extent (m<sup>2</sup>) of kelp canopies of the San Mateo, San Onofre, and Barn kelp beds, 1979.

Survey	San Mateo	San Onofre	Barn
January	324,900	515,000	88,000
April	550,700	845,600	240,800
September	335,000	966,000	245,300
December	334,300	1,238,800	262,700

Table IV-2. Kelp leaf nitrogen (Kjeldahl) analysis.

Barn kelp		San Onofre kelp		San Mateo kelp	
Depth (ft)	Total Kjeldahl Nitrogen (%)	Depth (ft)	Total Kjeldahl Nitrogen (%)	Depth (ft)	Total Kjeldahl Nitrogen (%)
<u>26 January 1979</u>					
0	0.87*	1	2.06*	0	1.77*
0	0.75	2	2.49	0	1.70
0	0.89	3	2.44	0	1.68
0	0.87	4	1.98	0	1.50
0	1.03	5	2.07	0	1.28
1	0.85	6	2.07	1	1.48
2	0.99	7	1.87	2	1.67
3	1.07	9	1.84	3	1.47
4	1.43	11	1.98	4	1.77
7	1.49	14	1.90	6	1.85
10	1.28	17	1.73	8	1.85
16	1.39	20	1.36	13	1.55
25	0.83	24	1.15	18	1.46
35	0.95	29	0.98	26	1.22
47	2.16	35	1.62	37	1.84
<u>15 February 1979</u>					
0	1.57	0	0.95	0	1.34
0	1.55	0	1.25	0	1.71
0	1.61	0	1.18	0	1.38
1	1.72	0	1.20	0	1.52
3	1.85	1	1.10	0	1.44
5	1.40	2	1.27	1	1.75
7	1.50	4	1.15	2	1.51
9	1.27	7	1.19	3	1.65
12	1.43	11	1.04	4	1.65
15	1.08	16	1.09	6	1.76
19	1.21	21	1.12	9	1.68
24	0.93	27	1.03	14	1.27
29	0.93	33	1.17	22	1.55
36	0.95	39	1.11	30	1.43
45	1.94	45	1.61	42	2.53

1 Reported on a dry basis

\* Sporophyll leaf

Table IV-2.-Kelp leaf nitrogen (Kjeldahl) analysis (Cont).

Barn kelp		San Onofre kelp		San Mateo kelp	
Depth (ft)	Total Kjeldahl Nitrogen (%)	Depth (ft)	Total Kjeldahl Nitrogen (%)	Depth (ft)	Total Kjeldahl Nitrogen (%)
<u>15 March 1979</u>					
0	1.19	0	1.29	1	1.54
0	1.28	2	1.21	2	1.35
0	1.12	4	1.25	3	1.33
1	1.26	7	1.25	4	1.37
2	0.96	9	1.20	5	1.44
4	0.85	11	1.19	6	1.59
6	0.88	13	1.12	7	1.50
9	1.01	16	1.06	8	1.95
12	1.04	19	1.01	10	1.62
16	0.86	22	1.48	12	1.35
21	1.16	26	1.00	15	1.51
26	1.13	30	0.92	18	1.55
32	1.10	36	1.00	23	1.82
40	1.23	42	1.22	30	1.58
50	1.97	50	2.79	35	2.09
<u>17 April 1979</u>					
0	0.44	0	1.07	0	1.27
0	0.66	0	1.11	0	1.60
2	0.71	1	1.19	2	1.37
4	0.69	3	1.18	3	1.68
6	0.72	5	1.19	4	1.50
8	0.81	7	1.70	5	1.72
10	0.82	10	1.07	7	1.95
12	0.81	13	1.27	9	2.31
14.5	0.93	16	1.46	11	2.98
17.5	0.61	19	1.66	13	2.94
21	0.91	23	1.34	16	2.92
25	1.20	27	1.94	20	1.40
29	1.34	31	1.18	26	1.60
33	1.61	35	2.55	33	1.31
40	2.64	40	2.59	40	2.09

Table IV-2. Kelp leaf nitrogen (Kjeldahl) analysis (Cont).

Barn kelp		San Onofre kelp		San Mateo kelp	
Depth (ft)	Total Kjeldahl Nitrogen (%)	Depth (ft)	Total Kjeldahl Nitrogen (%)	Depth (ft)	Total Kjeldahl Nitrogen (%)
<u>16 May 1979</u>					
0	3.30	0	3.49	0	4.85
0	3.99	0	3.34	0	3.92
1	3.74	1	3.60	1	4.49
2	3.61	2	3.57	2	4.13
3	3.65	3	3.66	3	3.62
4	3.79	4	3.39	4	3.82
6	3.62	6	3.34	6	4.60
9	3.39	8	3.04	8	3.76
12	3.36	11	2.98	11	3.82
17	4.25	14	3.75	14	4.08
22	4.22	18	3.85	18	3.86
28	4.08	23	3.83	24	4.09
35	3.22	29	4.02	32	3.91
42	3.38	36	3.21	40	2.61
50	3.48	45	2.82	50	2.76
<u>20 June 1979</u>					
0	2.15	0	1.07	0	2.25
0	2.01	2	1.20	2	1.95
0	1.87	3	0.63	3	1.85
2	2.02	5	0.68	4	2.00
4	2.19	7	0.71	5	2.02
6	2.19	9	0.71	6	2.06
8	2.32	11	1.21	8	2.11
11	2.32	13	1.11	10	2.72
14	2.12	15	1.86	12	2.70
18	2.47	18	2.65	15	2.32
23	3.43	22	2.70	17	2.48
29	3.96	26	3.22	21	2.28
34	4.78	31	3.73	26	3.61
39	4.31	35	2.95	32	2.79
45	2.64	40	2.08	40	3.21



Table IV-2. Kelp leaf nitrogen (Kjeldahl) analysis (Cont).

Barn kelp		San Onofre kelp		San Mateo kelp	
Depth (ft)	Total Kjeldahl Nitrogen (%)	Depth (ft)	Total Kjeldahl Nitrogen (%)	Depth (ft)	Total Kjeldahl Nitrogen (%)
<u>11 July 1979</u>					
0	1.23	0	0.98	1	2.19
0	1.04	2	0.77	2	1.55
1	1.00	4	0.71	4	2.38
2	0.61	6	0.90	6	2.23
4	0.98	8	0.98	8	2.06
7	1.02	10	0.89	10	2.28
10	0.97	12	0.91	12	2.35
14	0.98	15	0.81	14	2.53
18	0.85	19	0.98	16	2.57
22	0.93	23	1.07	18	2.54
27	0.96	27	1.27	21	2.56
32	1.04	31	1.20	24	2.56
37	1.29	37	1.89	27	2.51
43	1.18	43	1.99	31	1.90
50	2.68	50	1.99	35	2.56
<u>20 August 1979</u>					
0	1.63	-		0	2.31
1	1.35	0	0.99	0	2.08
2	1.37	1	0.98	1	1.43
3	1.08	2	0.89	2	2.03
4	1.34	3	0.87	3	1.79
5	1.47	5	0.85	4	1.87
6	1.31	8	0.96	6	1.75
8	1.50	11	0.81	8	1.74
10	1.61	14	1.09	11	1.73
13	1.47	18	0.92	16	1.99
16	1.42	22	0.98	22	1.87
19	1.46	26	1.11	28	1.74
22	1.53	30	1.96	32	1.29
26	1.57	35	0.93	36	1.23
30	2.58	40	1.51	40	2.31

Table IV-2. Kelp leaf nitrogen (Kjeldahl) analysis (Cont).

Depth (ft)	Barn kelp Total Kjeldahl Nitrogen (%)	Depth (ft)	San Onofre kelp Total Kjeldahl Nitrogen (%)	Depth (ft)	San Mateo kelp Total Kjeldahl Nitrogen (%)
<u>11 September 1979</u>					
0	0.79	-		1	1.41
0	0.74	3	1.20	5	1.29
1	0.93	4	0.77	7	1.13
3	0.97	5	0.76	9	1.01
4	0.93	6	0.76	11	1.01
6	0.86	8	1.55	14	1.22
9	0.74	11	1.41	18	1.30
13	0.88	13	1.27	22	1.41
17	0.85	16	1.22	26	1.62
21	0.80	20	1.25	30	1.47
27	0.93	24	1.12	33	1.57
33	1.48	28	0.96	35	1.17
37	1.43	32	0.75	38	1.17
41	1.26	36	0.86	41	1.30
45	2.51	40	1.61	45	2.29
<u>12 October 1979</u>					
0	1.11	0	1.30	0	2.50
0	1.09	1	2.15	1	1.94
1	1.05	3	2.01	2	1.76
2	1.18	5	2.18	4	1.77
3	1.36	7	2.05	6	1.60
4	1.31	10	1.99	8	1.65
7	1.17	13	1.91	10	1.76
10	1.24	16	1.82	12	1.74
14	1.13	19	1.73	14	1.71
19	1.13	23	1.83	17	2.10
24	1.48	27	2.13	20	2.41
29	1.54	31	2.63	23	2.56
36	1.89	35	2.94	26	2.77
42	1.87	40	2.11	29	2.33
47	3.20	45	2.09	32	2.15

Table IV-2. Kelp leaf nitrogen (Kjeldahl) analysis (Cont).

Barn kelp		San Onofre kelp		San Mateo kelp	
Depth (ft)	Total Kjeldahl Nitrogen (%)	Depth (ft)	Total Kjeldahl Nitrogen (%)	Depth (ft)	Total Kjeldahl Nitrogen (%)
<u>16 November 1979</u>					
0	3.18	0	1.00	0	1.06
0	2.48	1	0.82	0	0.99
1	2.41	3	0.78	1	0.92
3	2.47	5	0.66	3	0.95
5	2.52	8	0.64	5	1.03
9	2.55	11	0.70	8	1.12
13	2.13	14	0.92	11	1.12
16	2.26	17	0.99	14	1.15
19	1.93	20	0.91	17	1.31
22	1.98	23	0.89	20	1.59
26	2.09	26	0.76	23	1.94
31	2.48	29	0.80	26	1.77
36	2.40	32	0.91	39	1.69
42	2.06	36	1.07	32	1.48
48	1.98	40	2.18	35	2.72
<u>28 December 1979</u>					
0	2.91	0	1.98	1	1.32
1	2.37	1	1.97	1	1.34
2	2.34	2	1.96	2	1.69
4	2.22	3	1.84	4	2.12
6	2.30	5	1.67	6	2.94
8	2.17	7	1.54	8	3.43
11	2.23	10	1.51	10	2.83
14	2.52	13	1.35	12	3.24
17	2.48	17	1.49	14	2.92
22	2.49	21	1.46	16	3.17
27	2.37	25	1.75	18	3.04
32	2.38	30	1.98	21	2.32
37	2.14	35	1.60	24	1.62
42	2.05	40	1.29	27	2.75
47	2.05	45	1.71	30	1.51

## V. INTAKE AND WATER COLUMN ICHTHYOPLANKTON SAMPLE VOLUMES

A short review of sampling devices is presented here. A detailed description is included in Chapter VI of this volume. To convert numbers of organisms collected to a standard concentration, expressed as numbers/1000 m<sup>3</sup>, sample volumes were recorded. To assure an accurate assessment of abundance within sets of plankton collections, variation in sample volumes was held to +10% for each device.

### METHODS

#### Intake Sampling

Samples were withdrawn from inside the intake riser by a high volume pump connected to a metal standpipe projecting through the velocity cap. Half-hour samples of approximately 100 m<sup>3</sup> were collected. Volumes were determined by a General Oceanics (GO) Model 2030 flowmeter mounted in the intake hose.

#### Water Column Sampling

Three water column levels (neuston, midwater, epibenthos) were sampled during each month under several replicate regimes. The three levels were sampled using Manta, Bongo, and Auriga nets, respectively. Each net had two flowmeters mounted in the net mouth, the Manta and Auriga having one GO and one Tsurumi Seiki (TSK) meter, and the Bongo having one GO in each side of the frame. The Manta, Bongo, and Auriga nets filtered approximately 100, 250, and 800 m<sup>3</sup>, respectively, per replicate.

### RESULTS

Sample volumes for August 1977 through July 1979 are presented for all four sampling devices. Intake samples are divided into periods as appropriate. Three net types are presented for each transect during each month.

Table V-1. Sample volumes for SONGS ichthyoplankton sampling,  
11-12 August 1977.

<u>Intake Pump</u>	<u>m<sup>3</sup></u>
Day	1113
Night	1033
<u>Manta Net</u>	
Station 12	
Day	292.4
Night	280.0
Station 13	
Day	309.0
Night	267.1
Station 14	
Day	300.4
Night	228.9
<u>Bongo Net</u>	
Station 12	
Day	254.0
Night	238.1
Station 13	
Day	258.2
Night	227.9
Station 14	
Day	225.5
Night	227.9
<u>Auriga Net</u>	
Station 12	
Day	497.3
Night	539.2
Station 13	
Day	633.6
Night	295.2
Station 14	
Day	950.4
Night	344.0

Table V-2. Sample volumes for SONGS ichthyoplankton sampling,  
8-9 September 1977

<u>Intake Pump</u>	<u>m<sup>3</sup></u>
Day	1099
Night	1090
<u>Manta Net</u>	
Station 12	
Day	157.0
Night	186.1
Station 13	
Day	119.8
Night	122.4
Station 14	
Day	130.1
Night	203.6
<u>Bongo Net</u>	
Station 12	
Day	264.3
Night	237.0
Station 13	
Day	309.3
Night	278.3
Station 14	
Day	264.3
Night	232.6
<u>Auriga Net</u>	
Station 12	
Day	776.8
Night	456.0
Station 13	
Day	760.0
Night	662.7
Station 14	
Day	1182.4
Night	728.8

Table V-3. Sample volumes for SONGS ichthyoplankton sampling,  
13-14 October 1977

<u>Intake Pump</u>	<u>m<sup>3</sup></u>
Day	1146
Night	1154
<u>Manta Net</u>	
Station 12	
Day	180.3
Night	266.8
Station 13	
Day	183.9
Night	270.4
Station 14	
Day	242.5
Night	265.0
<u>Bongo Net</u>	
Station 12	
Day	533.3
Night	453.2
Station 13	
Day	330.7
Night	423.6
Station 14	
Day	490.7
Night	432.5
<u>Auriga Net</u>	
Station 12	
Day	484.8
Night	439.2
Station 13	
Day	621.6
Night	459.2
Station 14	
Day	541.6
Night	416.0

Table V-4. Sample volumes for SONGS ichthyoplankton sampling,  
29-30 November 1977

<u>Intake Pump</u>	<u>m<sup>3</sup></u>
Day	1112.9
Night	1135.6
<u>Manta Net</u>	
Station 12	
Day	289.2
Night	281.0
Station 13	
Day	270.0
Night	265.5
Station 14	
Day	291.9
Night	274.8
<u>Bongo Net</u>	
Station 12	
Day	419.7
Night	405.0
Station 13	
Day	457.7
Night	377.5
Station 14	
Day	493.8
Night	394.4
<u>Auriga Net</u>	
Station 12	
Day	444.8
Night	570.0
Station 13	
Day	480.8
Night	553.6
Station 14	
Day	537.6
Night	517.6



Table V-5. Sample volumes for SONGS ichthyoplankton sampling,  
29-30 December 1977

<u>Intake Pump</u>	<u>m3</u>
Day	853.5
Night	846.3
<u>Manta Net</u>	
Station 12	
Day	342.3
Night	297.1
Station 13	
Day	308.1
Night	262.3
Station 14	
Day	352.5
Night	245.9
<u>Bongo Net</u>	
Station 12	
Day	450*
Night	450*
Station 13	
Day	450*
Night	450*
Station 14	
Day	450*
Night	450*
<u>Auriga Net</u>	
Station 12	
Day	455.0
Night	413.0
Station 13	
Day	484.4
Night	406.0
Station 14	
Day	494.9
Night	462.7

\*Flowmeters broken at beginning of survey;  
estimate based on tow time, speed, and  
clogging conditions

Table V-6. Sample volumes for SONGS ichthyoplankton sampling,  
26-27 January 1978

<u>Intake Pump</u>	<u>m<sup>3</sup></u>
Day	782.9
Night	752.9

Manta Net (night only)

Station 12	
Replicate 1	224.3
2	252.7
3	205.7
4	210.9
5	209.7

Station 14	
Replicate 1	195.8

Bongo Net (night only)

Station 12	
Replicate 1	457.6
2	540.7
3	566.1
4	520.6
5	478.8

Station 14	
Replicate 1	481.4

Auriga Net (night only)

Station 12	
Replicate 1	523.1
2	246.0
3	336.8
4	497.7
5	418.8

Station 14	
Replicate 1	370.6

Table V-7. Sample volumes for SONGS ichthyoplankton sampling,  
27-28 February 1978

<u>Intake Pump</u>	<u>m<sup>3</sup></u>
1300-1532	426.5
1653-1856	427.7
2102-2305	422.3
0100-0443	428.8
0534-0739	422.7
0900-1135	399.4

Manta Net (night only)

Station 12

Replicate 1	107.7
2	92.7
3	132.7
4	120.9

Station 14

Replicate 1	133.1
2	102.1
3	100.8
4	113.7

Bongo Net (night only)

Station 12

Replicate 1	330.5
2	340.5
3	424.0
4	394.3

Station 14

Replicate 1	394.4
2	362.3
3	379.7
4	410.6

Auriga Net (night only)

Station 12

Replicate 1	470.2
2	437.7
3	458.1
4	448.9

Station 14

Replicate 1	505.8
2	513.6
3	457.1
4	451.3

Table V-8. Sample volumes for SONGS ichthyoplankton sampling,  
27-28 March 1978

SAMPLE VOLUMES = (NUMBER OF SPLITS) (M\*\*3 = (#))\*

STATION:	TREATMENT		REFERENCE	
	INSHORE (T-1)	OFFSHORE (T-2)	INSHORE (C-1)	OFFSHORE (C-2)
-----				
MANTA NET:				
REP 1	96.3 (0)	107.3 (0)	102.0 (0)	91.4 (0)
REP 2	95.0 (0)	94.2 (0)	114.0 (0)	97.3 (0)
REP 3	91.6 (0)	92.0 (0)	108.4 (0)	82.9 (0)
REP 4	<u>113.4</u> (0)	<u>107.5</u> (0)	<u>105.0</u> (0)	<u>89.8</u> (0)
MEDIAN	95.6	MEDIAN 100.7	MEDIAN 106.7	MEDIAN 90.6
MEAN	99.1	MEAN 100.2	MEAN 107.3	MEAN 90.3
S.D.	9.8	S.D. 8.3	S.D. 5.1	S.D. 5.9
BONGO NET:				
REP 1	481.4 (1)	299.5 (1)	312.8 (2)	197.5 (1)
REP 2	364.3 (1)	262.4 (1)	242.4 (1)	181.8 (1)
REP 3	296.8 (2)	304.4 (2)	167.0 (2)	140.4 (1)
REP 4	<u>337.5</u> (1)	<u>320.2</u> (2)	<u>270.0</u> (1)	<u>133.6</u> (1)
MEDIAN	350.9	MEDIAN 301.9	MEDIAN 256.2	MEDIAN 161.1
MEAN	370.0	MEAN 296.6	MEAN 248.0	MEAN 163.3
S.D.	79.3	S.D. 24.5	S.D. 61.3	S.D. 31.2
AURIGA NET:				
REP 1	830.5 (4)	659.3 (4)	649.1 (4)	646.8 (4)
REP 2	642.6 (4)	654.2 (4)	649.6 (4)	689.4 (4)
REP 3	687.5 (4)	660.7 (4)	690.5 (4)	682.2 (4)
REP 4	<u>666.7</u> (4)	<u>557.6</u> (4)	<u>659.4</u> (4)	<u>666.7</u> (4)
MEDIAN	677.1	MEDIAN 656.7	MEDIAN 654.5	MEDIAN 674.4
MEAN	706.8	MEAN 632.9	MEAN 662.1	MEAN 671.3
S.D.	84.5	S.D. 50.3	S.D. 19.5	S.D. 18.9

\* (M\*\*3 = m<sup>3</sup>)

Table V-9. Sample volumes for SONGS ichthyoplankton sampling,  
27-28 April 1978

NO INTAKE DATA

SAMPLING  
PROCEDURE  
CHANGE  
OVER  
IN PROGRESS

Table V-9. Sample volumes for SONGS ichthyoplankton sampling,  
27-28 April 1978 (Cont)

SAMPLE VOLUMES - (NUMBER OF SPLITS)

(M\*\*3 = (#))

STATION:	TREATMENT		REFERENCE	
	INSHORE (T-1)	OFFSHORE (T-2)	INSHORE (C-1)	OFFSHORE (C-2)
-----				
MANTA NET:				
REP 1	107.3 (0)	107.7 (0)	84.7 (0)	95.7 (0)
REP 2	98.0 (0)	118.5 (0)	86.9 (0)	106.5 (0)
REP 3	100.9 (0)	105.1 (0)	91.8 (0)	109.0 (0)
REP 4	102.3 (0)	113.5 (0)	107.3 (0)	100.2 (0)
-----				
MEDIAN	101.6	MEDIAN 110.6	MEDIAN 89.3	MEDIAN 103.3
MEAN	102.1	MEAN 111.2	MEAN 92.7	MEAN 102.8
S.D.	3.9	S.D. 6.0	S.D. 10.2	S.D. 6.0
BUNGO NET:				
REP 1	358.0 (2)	253.6 (2)	304.6 (2)	335.4 (2)
REP 2	256.2 (2)	186.6 (2)	275.4 (2)	362.8 (2)
REP 3	256.0 (2)	187.5 (2)	278.2 (2)	371.2 (2)
REP 4	218.6 (2)	245.0 (2)	292.2 (2)	212.4 (2)
-----				
MEDIAN	256.1	MEDIAN 216.2	MEDIAN 285.2	MEDIAN 349.1
MEAN	272.2	MEAN 218.2	MEAN 287.6	MEAN 320.4
S.D.	59.9	S.D. 36.1	S.D. 13.5	S.D. 73.6

Table V-9. Sample volumes for SONGS ichthyoplankton sampling,  
27-28 April 1978 (Cont).

SAMPLE VOLUMES = (NUMBER OF SPLITS)

(M\*\*3 = (#))

STATION:	TREATMENT		REFERENCE	
	INSHORE (T-1)	OFFSHORE (T-2)	INSHORE (C-1)	OFFSHORE (C-2)
-----				
AURIGA NET:				
REP 1	795.0 (3)	587.7 (3)	706.4 (3)	776.0 (3)
REP 2	851.4 (3)	824.8 (3)	732.9 (3)	793.6 (3)
REP 3	852.0 (3)	744.6 (3)	806.4 (3)	747.5 (3)
REP 4	836.0 (3)	597.6 (3)	803.5 (3)	776.0 (3)
-----				
MEDIAN	843.7	671.1	768.2	776.0
MEAN	833.6	688.7	762.3	773.3
S.D.	26.8	115.7	50.4	19.1
NIELSEN FISH PUMP		INTAKE		
TIME PERIOD:	DAY	SUNSET	NIGHT	SUNRISE
-----				
REP 1	104.4 (3)	107.0 (3)	86.6 (3)	100.3 (3)
REP 2	103.5 (3)	99.1 (3)	94.4 (3)	97.3 (3)
REP 3	103.6 (3)	103.9 (3)	103.1 (3)	98.5 (3)
REP 4	103.2 (3)	103.5 (3)	108.5 (3)	103.3 (3)
REP 5	90.5 (3)		104.0 (3)	
REP 6	102.7 (3)		103.7 (3)	
REP 7	97.4 (3)		102.9 (3)	
REP 8	103.1 (3)		105.3 (3)	
-----				
MEDIAN	103.1	103.7	103.4	99.4
MEAN	101.0	103.4	101.1	99.8
S.D.	4.8	3.3	7.1	2.6

Table V-10. Sample volumes for SONGS ichthyoplankton sampling,  
29-30 May 1978

SAMPLE VOLUMES - (NUMBER OF SPLITS)

(M\*\*3 - (#))

STATION:	TREATMENT		REFERENCE	
	INSHORE (T-1)	OFFSHORE (T-2)	INSHORE (C-1)	OFFSHORE (C-2)
-----				
MANTA NET:				
REP 1	102.3 (0)	122.9 (0)	117.3 (0)	109.8 (0)
REP 2	116.4 (0)	124.6 (0)	120.1 (0)	114.0 (0)
REP 3	114.2 (0)	121.3 (0)	104.8 (0)	118.4 (0)
REP 4	113.6 (0)	118.1 (0)	123.0 (0)	118.7 (0)
-----				
MEDIAN	113.9	122.1	118.7	116.2
MEAN	111.6	121.7	116.3	115.2
S.D.	6.3	2.8	8.0	4.2
BONGO NET:				
REP 1	284.8 (1)	361.8 (1)	408.6 (1)	401.0 (1)
REP 2	373.4 (1)	346.8 (1)	434.0 (1)	348.8 (1)
REP 3	330.6 (1)	325.6 (1)	368.6 (1)	384.6 (1)
REP 4	323.6 (1)	342.2 (1)	455.4 (1)	402.4 (1)
-----				
MEDIAN	327.1	344.5	421.3	392.8
MEAN	328.1	344.1	416.6	384.2
S.D.	36.3	14.9	37.3	24.9



Table V-10. Sample volumes for SONGS ichthyoplankton sampling,  
29-30 May 1978 (Cont)

## SAMPLE VOLUMES - (NUMBER OF SPLITS)

(M\*\*3 - (#))

STATION:	TREATMENT		REFERENCE	
	INSHORE (T-1)	OFFSHORE (T-2)	INSHORE (C-1)	OFFSHORE (C-2)
-----				
AURIGA NET:				
REP 1	659.2 (4)	660.0 (4)	668.0 (4)	768.0 (4)
REP 2	614.4 (4)	735.2 (4)	680.0 (4)	813.6 (4)
REP 3	756.0 (4)	508.8 (4)	761.6 (4)	846.4 (4)
REP 4	731.2 (4)	638.4 (4)	745.6 (4)	812.0 (4)
-----				
MEDIAN	695.2	649.2	712.8	812.8
MEAN	690.2	635.6	713.8	810.0
S.D.	65.1	94.2	46.7	32.2

## NIELSEN FISH PUMP

## INTAKE

TIME PERIOD:	SUNSET		NIGHT		SUNRISE	
	DAY					
-----						
REP 1	101.7 (1)	103.0 (1)	99.0 (1)		102.3 (1)	
REP 2	102.1 (1)	116.0 (1)	104.1 (1)		98.8 (1)	
REP 3	100.3 (1)	104.6 (1)	99.4 (1)		103.1 (1)	
REP 4	109.0 (1)	104.7 (1)	108.7 (1)		103.7 (1)	
REP 5	98.5 (1)		101.2 (1)			
REP 6	109.5 (1)		100.5 (1)			
REP 7	99.6 (1)		99.0 (1)			
REP 8	104.4 (1)		107.6 (1)			
-----						
MEDIAN	101.9	104.6	100.8		102.7	
MEAN	103.1	107.1	102.4		102.0	
S.D.	4.2	6.0	3.9		2.2	

Table V-11. Sample volumes for SONGS ichthyoplankton sampling,  
27-28 June 1978

SAMPLE VOLUMES - (NUMBER OF SPLITS)

(M\*\*3 = (#))

STATION:	TREATMENT		REFERENCE	
	INSHORE (T-1)	OFFSHORE (T-2)	INSHORE (C-1)	OFFSHORE (C-2)
-----				
MANTA NET:				
REP 1	111.2 (1)	106.6 (1)	119.5 (1)	121.3 (1)
REP 2	107.9 (1)	108.0 (1)	136.5 (1)	103.0 (1)
REP 3	119.5 (1)	98.2 (1)	125.4 (1)	119.0 (1)
REP 4	106.8 (1)	120.9 (1)	118.7 (1)	124.8 (1)
-----				
MEDIAN	109.5	MEDIAN 107.3	MEDIAN 122.4	MEDIAN 120.1
MEAN	111.3	MEAN 108.4	MEAN 125.0	MEAN 117.0
S.D.	5.7	S.D. 9.4	S.D. 8.2	S.D. 9.6
BONGO NET:				
REP 1	330.5 (2)	313.6 (2)	380.4 (2)	375.9 (2)
REP 2	299.6 (2)	308.6 (2)	393.4 (2)	318.0 (2)
REP 3	365.3 (2)	297.5 (2)	358.3 (2)	332.7 (2)
REP 4	388.8 (2)	348.6 (2)	363.9 (2)	362.9 (2)
-----				
MEDIAN	347.9	MEDIAN 311.1	MEDIAN 372.1	MEDIAN 347.8
MEAN	346.0	MEAN 317.1	MEAN 374.0	MEAN 347.4
S.D.	39.1	S.D. 22.1	S.D. 16.0	S.D. 26.7

Table V-11. Sample volumes for SONGS ichthyoplankton sampling,  
27-28 June 1978 (Cont)

SAMPLE VOLUMES - (NUMBER OF SPLITS)

(M\*\*3 = (#))

STATION:	TREATMENT		REFERENCE	
	INSHORE (T=1)	OFFSHORE (T=2)	INSHORE (C=1)	OFFSHORE (C=2)
-----				
AURIGA NET:				
REP 1	999.7 (3)	717.9 (3)	950.4 (3)	913.9 (3)
REP 2	952.0 (3)	859.0 (3)	937.6 (3)	910.4 (3)
REP 3	956.8 (3)	787.3 (3)	822.4 (3)	904.0 (3)
REP 4	1014.7 (3)	894.0 (3)	974.4 (3)	960.0 (3)
-----				
MEDIAN	978.2	823.1	944.0	912.1
MEAN	980.8	814.5	921.2	922.1
S.D.	31.2	78.3	67.6	25.6

NIELSEN FISH PUMP

INTAKE

TIME PERIOD:	SUNSET			NIGHT			SUNRISE		
	DAY								
-----									
REP 1	115.4 (0)	97.8 (0)		97.5 (0)			91.2 (0)		
REP 2	94.9 (0)	97.9 (0)		90.4 (0)			90.6 (0)		
REP 3	95.0 (0)	94.3 (0)		96.3 (0)			98.9 (0)		
REP 4	92.2 (0)	92.9 (0)		96.7 (0)			94.6 (0)		
REP 5	137.7 (0)			91.7 (0)					
REP 6	98.3 (0)			95.6 (0)					
REP 7	100.7 (0)			97.6 (0)					
REP 8	101.0 (0)			94.5 (0)					
-----									
MEDIAN	99.5	96.0		95.9			92.9		
MEAN	104.4	95.7		95.0			93.8		
S.D.	15.2	2.5		2.7			3.8		

Table V-12. Sample volumes for SONGS ichthyoplankton sampling,  
27-29 July 1978

SAMPLE VOLUMES - (NUMBER OF SPLITS)

(M\*\*3 - (#))

STATION:	TREATMENT		REFERENCE	
	INSHORE (T-1)	OFFSHORE (T-2)	INSHORE (C-1)	OFFSHORE (C-2)
<b>MANTA NET:</b>				
REP 1	138.9 (0)	112.0 (0)	118.8 (0)	118.9 (0)
REP 2	107.0 (0)	119.0 (0)	119.7 (0)	108.1 (0)
REP 3	106.5 (0)	112.6 (0)	109.0 (0)	104.0 (0)
REP 4	110.0 (0)	123.7 (0)	119.3 (0)	100.2 (0)
-----	-----	-----	-----	-----
MEDIAN	108.5	MEDIAN 115.8	MEDIAN 119.0	MEDIAN 106.0
MEAN	115.6	MEAN 116.8	MEAN 116.7	MEAN 107.8
S.D.	15.6	S.D. 5.6	S.D. 5.1	S.D. 8.1
<b>BONGO NET:</b>				
REP 1	470.4 (1)	435.0 (1)	443.2 (1)	421.2 (1)
REP 2	430.2 (1)	429.0 (1)	449.0 (1)	438.6 (1)
REP 3	436.6 (1)	497.4 (1)	479.8 (1)	445.2 (1)
REP 4	462.6 (1)	467.2 (1)	420.0 (1)	421.8 (1)
-----	-----	-----	-----	-----
MEDIAN	449.6	MEDIAN 451.1	MEDIAN 446.1	MEDIAN 430.2
MEAN	449.9	MEAN 457.1	MEAN 448.0	MEAN 431.7
S.D.	19.5	S.D. 31.6	S.D. 24.6	S.D. 12.1

Table V-12. Sample volumes for SONGS ichthyoplankton sampling,  
27-29 July 1978 (Cont)

## SAMPLE VOLUMES - (NUMBER OF SPLITS)

(M\*\*3 - (#))

STATION:	TREATMENT		REFERENCE	
	INSHORE (T-1)	OFFSHORE (T-2)	INSHORE (C-1)	OFFSHORE (C-2)
<b>AURIGA NET:</b>				
REP 1	896.0 (3)	936.0 (3)	1191.4 (3)	1087.2 (3)
REP 2	996.0 (3)	872.0 (3)	1060.5 (3)	1063.7 (3)
REP 3	1051.2 (3)	907.2 (3)	1099.2 (3)	1121.9 (3)
REP 4	974.4 (3)	894.4 (3)	1122.4 (3)	1155.2 (3)
	-----	-----	-----	-----
MEDIAN	985.2	MEDIAN 900.8	MEDIAN 1110.8	MEDIAN 1104.5
MEAN	979.4	MEAN 902.4	MEAN 1118.4	MEAN 1107.0
S.D.	64.3	S.D. 26.7	S.D. 55.0	S.D. 40.1
<b>NIELSEN FISH PUMP INTAKE</b>				
TIME PERIOD:	DAY	SUNSET	NIGHT	SUNRISE
	-----	-----	-----	-----
REP 1	103.9 (2)	95.9 (2)	98.2 (2)	97.4 (2)
REP 2	104.2 (2)	95.9 (2)	89.0 (2)	99.8 (2)
REP 3	105.4 (2)	100.0 (2)	96.0 (2)	94.8 (2)
REP 4	107.0 (2)	99.1 (2)	101.9 (2)	95.8 (2)
REP 5	102.4 (2)		105.1 (2)	
REP 6	107.4 (2)		103.3 (2)	
REP 7	108.5 (2)		96.5 (2)	
REP 8	104.7 (2)		105.7 (2)	
	-----	-----	-----	-----
MEDIAN	105.0	97.5	100.0	96.6
MEAN	105.4	97.7	99.5	96.9
S.D.	2.0	2.1	5.6	2.2

Table V-13. Sample volumes for SONGS ichthyoplankton sampling,  
29-30 August 1978

SAMPLE VOLUMES - (NUMBER OF SPLITS)

(M\*\*3 - (#))

STATION:	TREATMENT		REFERENCE	
	INSHORE (T-1)	OFFSHORE (T-2)	INSHORE (C-1)	OFFSHORE (C-2)
<b>MANTA NET:</b>				
REP 1	143.8 (0)	132.0 (0)	137.5 (0)	123.4 (0)
REP 2	134.3 (0)	135.0 (0)	142.9 (0)	134.0 (0)
REP 3	125.1 (0)	137.3 (0)	132.8 (0)	131.3 (0)
REP 4	143.4 (0)	141.9 (0)	123.5 (0)	121.7 (0)
	-----	-----	-----	-----
MEDIAN	138.8	MEDIAN 136.1	MEDIAN 135.1	MEDIAN 127.3
MEAN	136.6	MEAN 136.5	MEAN 134.2	MEAN 127.6
S.D.	8.9	S.D. 4.2	S.D. 8.2	S.D. 6.0
<b>BONGO NET:</b>				
REP 1	482.8 (1)	432.5 (1)	472.4 (1)	434.6 (1)
REP 2	458.0 (1)	459.7 (1)	417.1 (1)	397.2 (1)
REP 3	407.0 (1)	449.0 (1)	439.3 (1)	388.6 (1)
REP 4	473.0 (1)	420.3 (1)	371.7 (1)	409.9 (1)
	-----	-----	-----	-----
MEDIAN	465.5	MEDIAN 440.7	MEDIAN 428.2	MEDIAN 403.5
MEAN	455.2	MEAN 440.4	MEAN 425.1	MEAN 407.6
S.D.	33.7	S.D. 17.4	S.D. 42.2	S.D. 20.0

Table V-13. Sample volumes for SONGS ichthyoplankton sampling,  
29-30 August 1978 (Cont)

SAMPLE VOLUMES - (NUMBER OF SPLITS)

(M\*\*3 - (#))

STATION:	TREATMENT		REFERENCE	
	INSHORE (T-1)	OFFSHORE (T-2)	INSHORE (C-1)	OFFSHORE (C-2)
-----				
AURIGA NET:				
REP 1	895.2 (3)	828.8 (3)	758.4 (3)	820.0 (3)
REP 2	888.8 (3)	807.3 (3)	917.6 (3)	905.6 (3)
REP 3	862.4 (3)	768.0 (3)	872.0 (3)	821.6 (3)
REP 4	915.2 (3)	809.6 (3)	856.0 (3)	852.8 (3)
-----				
MEDIAN	892.0	808.4	864.0	837.2
MEAN	890.4	803.4	851.0	850.0
S.D.	21.8	25.5	67.0	40.0

Table V-13. Sample volumes for SONGS ichthyoplankton sampling,  
29-30 August 1978 (Cont).

SAMPLE VOLUMES - (NUMBER OF SPLITS)

(M\*\*3 - (#))

NIELSEN FISH PUMP		INTAKE		
TIME PERIOD:		SUNSET	NIGHT	SUNRISE
DAY				
REP 1	108.5 (1)	92.2 (1)	97.8 (1)	111.5 (1)
REP 2	109.4 (1)	102.8 (1)	117.4 (1)	108.2 (1)
REP 3	120.3 (1)	110.9 (1)	125.4 (1)	115.0 (1)
REP 4	120.7 (1)	132.2 (1)	119.0 (1)	110.8 (1)
REP 5	112.4 (1)		112.0 (1)	
REP 6	102.0 (1)		117.4 (1)	
REP 7	114.6 (1)		117.8 (1)	
REP 8	110.7 (1)		111.6 (1)	
REP 9	112.5 (1)		114.8 (1)	
REP 10	110.4 (1)		110.9 (1)	
REP 11	112.0 (1)		113.2 (1)	
REP 12	99.1 (1)		114.5 (1)	
-----		-----	-----	-----
MEDIAN	111.3	106.8	114.6	111.1
MEAN	111.0	109.5	114.3	111.4
S.D.	6.3	16.9	6.6	2.8



Table V-14. Sample volumes for SONGS ichthyoplankton sampling,  
28-29 September 1978

SAMPLE VOLUMES - (NUMBER OF SPLITS)

(M\*\*3 - (#))

STATION:	TREATMENT		REFERENCE	
	INSHORE (T-1)	OFFSHORE (T-2)	INSHORE (C-1)	OFFSHORE (C-2)
-----				
MANTA NET:				
REP 1	154.7 (0)	126.1 (0)	125.7 (0)	132.4 (0)
REP 2	165.9 (0)	105.6 (0)	136.7 (0)	115.3 (0)
REP 3	124.4 (0)	136.7 (0)	131.9 (0)	146.9 (0)
REP 4	120.9 (0)	87.3 (0)	127.4 (0)	120.2 (0)
MEDIAN	139.5	115.8	129.6	126.3
MEAN	141.5	113.9	130.4	128.7
S.D.	22.3	21.9	4.9	14.1
BONGO NET:				
REP 1	554.7 (1)	560.9 (1)	375.4 (1)	379.8 (1)
REP 2	547.7 (1)	392.4 (1)	386.2 (1)	513.9 (1)
REP 3	428.5 (1)	367.0 (1)	368.6 (1)	383.4 (1)
REP 4	347.8 (1)	422.9 (1)	402.4 (1)	384.5 (1)
MEDIAN	488.1	407.6	380.8	383.9
MEAN	469.7	435.8	383.1	415.4
S.D.	99.8	86.5	14.7	65.7
AURIGA NET:				
REP 1	839.7 (3)	834.4 (3)	897.6 (3)	816.0 (3)
REP 2	804.8 (3)	814.4 (3)	876.8 (3)	889.6 (3)
REP 3	861.6 (3)	830.4 (3)	850.4 (3)	856.0 (3)
REP 4	809.6 (3)	820.8 (3)	868.8 (3)	856.1 (3)
MEDIAN	824.6	825.6	872.8	856.0
MEAN	828.9	825.0	873.4	854.4
S.D.	26.7	9.1	19.6	30.1

Table V-14. Sample volumes for SONGS ichthyoplankton sampling,  
28-29 September 1978 (Cont)

NO INTAKE DATA

CIRCULATION  
PUMPS  
NOT  
OPERATING

Table V-15. Sample volumes for SONGS ichthyoplankton sampling,  
31 October to 1 November 1978

SAMPLE VOLUMES - (NUMBER OF SPLITS)

(M\*\*3 - (#))

STATION:	TREATMENT		REFERENCE	
	INSHORE (T-1)	OFFSHORE (T-2)	INSHORE (C-1)	OFFSHORE (C-2)
<b>MANTA NET:</b>				
REP 1	101.6 (0)	77.7 (0)	98.9 (0)	99.9 (0)
REP 2	112.7 (0)	57.6 (0)	109.3 (0)	105.6 (0)
REP 3	94.3 (0)	85.4 (0)	105.6 (0)	103.0 (0)
REP 4	119.6 (0)	53.2 (0)	105.1 (0)	113.5 (0)
	-----	-----	-----	-----
MEDIAN	107.1	MEDIAN 67.6	MEDIAN 105.3	MEDIAN 104.3
MEAN	107.0	MEAN 68.5	MEAN 104.7	MEAN 105.5
S.D.	11.3	S.D. 15.5	S.D. 4.3	S.D. 5.8
<b>BONGO NET:</b>				
REP 1	310.0 (2)	311.1 (2)	390.3 (2)	397.1 (2)
REP 2	394.4 (2)	301.8 (2)	386.2 (2)	367.1 (2)
REP 3	394.7 (2)	281.0 (2)	365.4 (2)	362.6 (2)
REP 4	406.6 (2)	385.6 (2)	372.9 (2)	393.0 (2)
	-----	-----	-----	-----
MEDIAN	394.5	MEDIAN 306.4	MEDIAN 379.5	MEDIAN 380.0
MEAN	376.4	MEAN 319.9	MEAN 378.7	MEAN 379.9
S.D.	44.6	S.D. 45.6	S.D. 11.6	S.D. 17.6

Table V-15. Sample volumes for SONGS ichthyoplankton sampling,  
31 October to 1 November 1978 (Cont)

SAMPLE VOLUMES - (NUMBER OF SPLITS)

(M\*\*3 = (#))

STATION:	TREATMENT		REFERENCE	
	INSHORE (T-1)	OFFSHORE (T-2)	INSHORE (C-1)	OFFSHORE (C-2)
-----				
AURIGA NET:				
REP 1	834.6 (2)	481.6 (2)	664.0 (2)	665.6 (2)
REP 2	697.9 (2)	384.0 (2)	608.0 (2)	561.6 (2)
REP 3	623.8 (2)	329.6 (2)	825.6 (2)	803.2 (2)
REP 4	573.6 (2)	409.6 (2)	969.6 (2)	693.6 (2)
-----				
MEDIAN	660.8	396.8	744.8	679.6
MEAN	682.5	401.2	766.8	681.0
S.D.	113.5	63.1	163.7	99.3
NIELSEN FISH PUMP INTAKE				
TIME PERIOD:	DAY	SUNSET	NIGHT	SUNRISE
-----				
REP 1	95.4 (0)	93.9 (0)	97.4 (0)	100.3 (0)
REP 2	96.8 (0)	99.8 (0)	94.6 (0)	98.7 (0)
REP 3	103.2 (0)	100.7 (0)	100.7 (0)	99.0 (0)
REP 4	97.7 (0)	98.9 (0)	98.7 (0)	97.2 (0)
REP 5	98.8 (0)		98.1 (0)	
REP 6	99.4 (0)		99.6 (0)	
REP 7	98.9 (0)		100.0 (0)	
REP 8	99.4 (0)		100.8 (0)	
-----				
MEDIAN	98.8	99.3	99.1	98.8
MEAN	98.7	98.3	98.7	98.8
S.D.	2.3	3.0	2.1	1.3

Table V-16. Sample volumes for SONGS ichthyoplankton sampling,  
29-30 November 1978

## SAMPLE VOLUMES - (NUMBER OF SPLITS)

(M\*\*3 = (#))

STATION:	TREATMENT		REFERENCE	
	INSHORE (T-1)	OFFSHORE (T-2)	INSHORE (C-1)	OFFSHORE (C-2)
-----				
MANTA NET:				
REP 1	98.3 (0)	119.3 (0)	95.3 (0)	100.0 (0)
REP 2	96.4 (0)	104.7 (0)	95.4 (0)	119.1 (0)
REP 3	103.3 (0)	117.9 (0)	113.6 (0)	100.5 (0)
REP 4	<u>106.1</u> (0)	<u>118.6</u> (0)	<u>85.7</u> (0)	<u>94.6</u> (0)
MEDIAN	100.8	MEDIAN 118.2	MEDIAN 95.3	MEDIAN 100.2
MEAN	101.0	MEAN 115.1	MEAN 97.5	MEAN 103.5
S.D.	4.5	S.D. 7.0	S.D. 11.7	S.D. 10.7
BONGO NET:				
REP 1	445.6 (2)	406.0 (2)	430.2 (2)	451.5 (2)
REP 2	413.5 (2)	432.5 (2)	438.3 (2)	503.0 (2)
REP 3	374.2 (2)	443.3 (2)	427.3 (2)	344.3 (2)
REP 4	<u>411.0</u> (2)	<u>485.5</u> (2)	<u>379.3</u> (2)	<u>389.1</u> (2)
MEDIAN	412.2	MEDIAN 437.9	MEDIAN 428.7	MEDIAN 420.3
MEAN	411.1	MEAN 441.8	MEAN 418.8	MEAN 422.0
S.D.	29.2	S.D. 33.1	S.D. 26.7	S.D. 69.6
AURIGA NET:				
REP 1	758.4 (2)	815.4 (2)	838.4 (2)	806.4 (2)
REP 2	768.0 (2)	824.0 (2)	785.6 (2)	808.0 (2)
REP 3	852.8 (2)	792.8 (2)	838.4 (2)	841.6 (2)
REP 4	<u>824.8</u> (2)	<u>812.0</u> (2)	<u>927.2</u> (2)	<u>853.6</u> (2)
MEDIAN	796.4	MEDIAN 813.7	MEDIAN 838.4	MEDIAN 824.8
MEAN	801.0	MEAN 811.0	MEAN 847.4	MEAN 827.4
S.D.	45.3	S.D. 13.2	S.D. 58.7	S.D. 23.8

Table V-16. Sample volumes for SONGS ichthyoplankton sampling,  
29-30 November 1978 (Cont)

SAMPLE VOLUMES - (NUMBER OF SPLITS)

(M\*\*3 - (#))

INTAKE

NIELSEN FISH PUMP

TIME PERIOD:	MORNING			AFTERNOON			SUNSET		
	MORNING			AFTERNOON			SUNSET		
REP 1	101.2	(0)		103.1	(0)		97.2	(0)	
REP 2	102.7	(0)		100.2	(0)		94.0	(0)	
REP 3	102.0	(0)		110.4	(0)		91.5	(0)	
REP 4	102.0	(0)		95.6	(0)		94.5	(0)	
MEDIAN	102.0			101.6			94.2		
MEAN	102.0			102.3			94.3		
S.D.	0.6			6.2			2.3		
	EVENING			NIGHT			SUNRISE		
REP 1	100.6	(0)		99.7	(0)		99.6	(0)	
REP 2	91.6	(0)		96.5	(0)		95.6	(0)	
REP 3	95.9	(0)		97.1	(0)		97.2	(0)	
REP 4	95.5	(0)		98.0	(0)		93.7	(0)	
MEDIAN	95.7			97.5			96.4		
MEAN	95.9			97.8			96.5		
S.D.	3.7			1.4			2.5		

Table V-17. Sample volumes for SONGS ichthyoplankton sampling,  
27-28 December 1978

## SAMPLE VOLUMES - (NUMBER OF SPLITS)

(M\*\*3 = (#))

STATION:	TREATMENT		REFERENCE	
	INSHORE (T-1)	OFFSHORE (T-2)	INSHORE (C-1)	OFFSHORE (C-2)
-----				
MANTA NET:				
REP 1	104.0 (0)	122.2 (0)	112.4 (0)	130.6 (0)
REP 2	126.0 (0)	133.2 (0)	127.0 (0)	127.6 (0)
REP 3	141.3 (0)	133.0 (0)	133.3 (0)	138.0 (0)
REP 4	126.0 (0)	132.4 (0)	138.6 (0)	135.0 (0)
MEDIAN	<u>126.0</u>	<u>132.7</u>	<u>130.1</u>	<u>132.8</u>
MEAN	124.3	130.2	127.8	132.8
S.D.	15.4	5.3	11.3	4.6
BONGO NET:				
REP 1	389.6 (2)	448.4 (2)	381.5 (2)	506.6 (2)
REP 2	416.7 (2)	471.1 (2)	476.4 (2)	470.4 (2)
REP 3	434.3 (2)	524.8 (2)	488.7 (2)	515.3 (2)
REP 4	452.8 (2)	470.7 (2)	506.9 (2)	522.9 (2)
MEDIAN	<u>425.5</u>	<u>470.9</u>	<u>482.5</u>	<u>510.9</u>
MEAN	423.3	478.7	463.4	503.8
S.D.	26.9	32.5	56.0	23.2
AURIGA NET:				
REP 1	837.8 (3)	898.3 (3)	889.6 (3)	826.9 (3)
REP 2	902.2 (3)	867.7 (3)	891.6 (3)	795.6 (3)
REP 3	757.8 (3)	922.6 (3)	899.0 (3)	801.8 (3)
REP 4	878.6 (3)	944.5 (3)	906.9 (3)	814.3 (3)
MEDIAN	<u>858.2</u>	<u>910.4</u>	<u>895.3</u>	<u>808.0</u>
MEAN	844.1	908.3	896.8	809.6
S.D.	63.4	33.0	7.9	13.9

Table V-17. Sample volumes for SONGS ichthyoplankton sampling,  
27-28 December 1978 (Cont)

SAMPLE VOLUMES - (NUMBER OF SPLITS)

(M\*\*3 - (#))

INTAKE

NIELSEN FISH PUMP

	TIME PERIOD:		
	MORNING	AFTERNOON	SUNSET
REP 1	112.8 (1)	129.2 (1)	128.5 (1)
REP 2	117.2 (1)	135.2 (1)	128.2 (1)
REP 3	116.4 (1)	133.1 (1)	128.2 (1)
REP 4	118.0 (1)	135.2 (1)	120.7 (1)
	-----	-----	-----
MEDIAN	116.8	134.1	128.2
MEAN	116.1	133.2	126.4
S.D.	2.3	2.8	3.8
	TIME PERIOD:		
	EVENING	NIGHT	SUNRISE
REP 1	114.4 (1)	116.7 (1)	117.2 (1)
REP 2	114.6 (1)	116.1 (1)	114.4 (1)
REP 3	114.5 (1)	116.6 (1)	117.9 (1)
REP 4	112.7 (1)	115.8 (1)	118.3 (1)
	-----	-----	-----
MEDIAN	114.4	116.3	117.5
MEAN	114.0	116.3	116.9
S.D.	0.9	0.4	1.8



Table V-18. Sample volumes for SONGS ichthyoplankton sampling,  
29-30 January 1979

## SAMPLE VOLUMES - (NUMBER OF SPLITS)

(M\*\*3 - (#))

STATION:	TREATMENT		REFERENCE	
	INSHORE (T-1)	OFFSHORE (T-2)	INSHORE (C-1)	OFFSHORE (C-2)
-----				
MANTA NET:				
REP 1	116.3 (0)	135.5 (0)	116.8 (0)	113.8 (0)
REP 2	163.0 (0)	172.4 (0)	102.2 (0)	107.3 (0)
REP 3	152.6 (0)	121.9 (0)	100.4 (0)	127.2 (0)
REP 4	150.9 (0)	137.9 (0)	117.1 (0)	151.6 (0)
MEDIAN	151.7	136.7	109.5	120.5
MEAN	145.7	141.9	109.1	125.0
S.D.	20.3	21.5	9.1	19.6
BONGO NET:				
REP 1	633.6 (2)	558.6 (2)	440.5 (2)	426.2 (2)
REP 2	598.7 (2)	451.3 (2)	403.0 (2)	407.8 (2)
REP 3	575.1 (2)	449.5 (2)	401.9 (2)	450.7 (2)
REP 4	524.1 (2)	533.7 (2)	457.2 (2)	461.4 (2)
MEDIAN	586.9	492.5	421.7	438.4
MEAN	582.9	498.3	425.6	436.5
S.D.	46.0	56.2	27.6	24.2
AURIGA NET:				
REP 1	873.3 (3)	853.1 (3)	1048.6 (3)	947.6 (3)
REP 2	865.0 (3)	898.8 (3)	1028.4 (3)	981.6 (3)
REP 3	901.7 (3)	947.3 (3)	1010.1 (3)	1000.5 (3)
REP 4	909.7 (3)	956.6 (3)	1015.0 (3)	1071.3 (3)
MEDIAN	887.5	923.0	1021.7	991.0
MEAN	887.4	913.9	1025.5	1000.2
S.D.	21.6	47.8	17.2	52.2

Table V-18. Sample volumes for SONGS ichthyoplankton sampling,  
29-30 January 1979 (Cont)

SAMPLE VOLUMES - (NUMBER OF SPLITS)

(M\*\*3 - (#))

INTAKE

NIELSEN FISH PUMP

	TIME PERIOD:		
	MORNING	AFTERNOON	SUNSET
REP 1	125.5 (1)	124.7 (1)	130.0 (1)
REP 2	130.8 (1)	119.6 (1)	119.5 (1)
REP 3	131.9 (1)	122.4 (1)	117.6 (1)
REP 4	121.8 (1)	123.9 (1)	135.7 (1)
MEDIAN	128.1	123.1	124.7
MEAN	127.5	122.6	125.7
S.D.	4.7	2.2	8.6
	EVENING	NIGHT	SUNRISE
REP 1	128.4 (1)	129.6 (1)	128.3 (1)
REP 2	127.9 (1)	130.0 (1)	130.1 (1)
REP 3	129.5 (1)	129.2 (1)	130.4 (1)
REP 4	138.4 (1)	127.3 (1)	130.8 (1)
MEDIAN	128.9	129.4	130.2
MEAN	131.0	129.0	129.9
S.D.	4.9	1.2	1.1

Table V-19. Sample volumes for SONGS ichthyoplankton sampling,  
28 February to 1 March 1979

STATION:	TREATMENT		REFERENCE	
	INSHORE (T-1)	OFFSHORE (T-2)	INSHORE (C-1)	OFFSHORE (C-2)
MANTA NET:				
REP 1	107.2 (0)	119.4 (0)	135.8 (0)	113.1 (0)
REP 2	118.9 (0)	122.6 (0)	109.1 (0)	136.4 (0)
REP 3	124.5 (0)	120.4 (0)	100.4 (0)	123.5 (0)
REP 4	126.8 (0)	127.3 (0)	101.1 (0)	121.1 (0)
MEDIAN	121.7	121.5	105.1	122.3
MEAN	119.3	122.4	111.6	123.5
S.D.	8.8	3.5	16.6	9.7
BONGO NET:				
REP 1	583.9 (1)	629.6 (1)	536.8 (1)	557.9 (1)
REP 2	557.6 (1)	549.0 (1)	415.7 (1)	531.3 (1)
REP 3	575.1 (1)	673.2 (1)	390.0 (1)	539.8 (1)
REP 4	622.1 (1)	536.8 (1)	451.0 (1)	556.9 (1)
MEDIAN	579.5	589.3	433.3	548.3
MEAN	584.7	597.1	448.4	546.5
S.D.	27.2	65.3	64.0	13.1
AURIGA NET:				
REP 1	909.9 (3)	921.7 (3)	839.2 (3)	956.9 (3)
REP 2	937.8 (3)	800.9 (3)	940.2 (3)	897.8 (3)
REP 3	860.0 (3)	896.1 (3)	530.0 (3)	902.6 (3)
REP 4	807.6 (3)	853.5 (3)	824.3 (3)	998.9 (3)
MEDIAN	884.9	874.8	831.7	929.7
MEAN	878.8	868.0	783.4	939.0
S.D.	57.4	52.9	176.6	48.1

Table V-19. Sample volumes for SONGS ichthyoplankton sampling,  
28 February to 1 March 1979 (Cont)

SAMPLE VOLUMES - (NUMBER OF SPLITS)

(M\*\*3 - (#))

INTAKE

NIELSEN FISH PUMP

	TIME PERIOD:		
	MORNING	AFTERNOON.	SUNSET
REP 1	100.0 (0)	102.6 (0)	100.0 (0)
REP 2	100.0 (0)	100.0 (0)	100.0 (0)
REP 3	100.0 (0)	100.0 (0)	100.0 (0)
REP 4	100.0 (0)	100.0 (0)	100.0 (0)
	-----	-----	-----
MEDIAN	100.0	100.0	100.0
MEAN	100.0	100.6	100.0
S.D.	0.0	1.3	0.0

	TIME PERIOD:		
	EVENING	NIGHT	SUNRISE
REP 1	100.0 (0)	100.0 (0)	100.0 (0)
REP 2	100.0 (0)	100.0 (0)	100.0 (0)
REP 3	100.0 (0)	100.0 (0)	100.0 (0)
REP 4	100.0 (0)	100.0 (0)	100.0 (0)
	-----	-----	-----
MEDIAN	100.0	100.0	100.0
MEAN	100.0	100.0	100.0
S.D.	0.0	0.0	0.0

Table V-20. Sample volumes for SONGS ichthyoplankton sampling,  
29-30 March 1979

STATION:	TREATMENT		REFERENCE	
	INSHORE (T-1)	OFFSHORE (T-2)	INSHORE (C-1)	OFFSHORE (C-2)
(M**3 = (#))				
-----				
MANTA NET:				
REP 1	102.5 (0)	110.9 (0)	108.3 (0)	107.3 (0)
REP 2	100.7 (0)	103.2 (0)	103.6 (0)	106.2 (0)
REP 3	126.5 (0)	103.6 (0)	100.7 (0)	114.8 (0)
REP 4	<u>118.5</u> (0)	<u>120.4</u> (0)	<u>108.3</u> (0)	<u>118.8</u> (0)
MEDIAN	110.5	MEDIAN 107.2	MEDIAN 105.9	MEDIAN 111.0
MEAN	112.0	MEAN 109.5	MEAN 105.2	MEAN 111.8
S.D.	12.5	S.D. 8.1	S.D. 3.7	S.D. 6.0
BONGO NET:				
REP 1	495.6 (2)	487.7 (2)	381.0 (2)	388.1 (2)
REP 2	406.4 (2)	465.4 (2)	366.8 (2)	378.2 (2)
REP 3	464.1 (2)	461.2 (2)	369.2 (2)	395.6 (2)
REP 4	<u>421.1</u> (2)	<u>445.6</u> (2)	<u>389.0</u> (2)	<u>432.2</u> (2)
MEDIAN	442.6	MEDIAN 463.3	MEDIAN 375.1	MEDIAN 391.8
MEAN	446.8	MEAN 465.0	MEAN 376.5	MEAN 398.5
S.D.	40.7	S.D. 17.4	S.D. 10.4	S.D. 23.6
AURIGA NET:				
REP 1	856.2 (3)	609.9 (3)	659.9 (3)	669.0 (3)
REP 2	827.5 (3)	1010.4 (3)	697.2 (3)	720.8 (3)
REP 3	648.5 (3)	853.2 (3)	460.2 (3)	673.6 (3)
REP 4	<u>773.4</u> (3)	<u>889.1</u> (3)	<u>748.3</u> (3)	<u>774.2</u> (3)
MEDIAN	800.4	MEDIAN 871.1	MEDIAN 678.5	MEDIAN 697.2
MEAN	776.4	MEAN 840.6	MEAN 641.4	MEAN 709.4
S.D.	91.9	S.D. 167.9	S.D. 126.1	S.D. 49.1

Table V-20. Sample volumes for SONGS ichthyoplankton sampling,  
29-30 March 1979 (Cont)

SAMPLE VOLUMES - (NUMBER OF SPLITS)

(M\*\*3 - (#))

INTAKE

NIELSEN FISH PUMP

TIME PERIOD:

	MORNING	AFTERNOON	SUNSET
REP 1	100.0 (0)	100.0 (0)	117.6 (0)
REP 2	100.0 (0)	106.0 (0)	100.0 (0)
REP 3	100.0 (0)	100.0 (0)	100.0 (0)
REP 4	100.0 (0)	100.0 (0)	100.0 (0)
MEDIAN	100.0	100.0	100.0
MEAN	100.0	101.5	104.4
S.D.	0.0	3.0	8.8

	EVENING	NIGHT	SUNRISE
REP 1	100.0 (0)	100.0 (0)	100.0 (0)
REP 2	100.0 (0)	100.0 (0)	100.0 (0)
REP 3	100.0 (0)	100.0 (0)	100.0 (0)
REP 4	100.0 (0)	100.0 (0)	100.0 (0)
MEDIAN	100.0	100.0	100.0
MEAN	100.0	100.0	100.0
S.D.	0.0	0.0	0.0

Table V-21. Sample volumes for SONGS ichthyoplankton sampling,  
30 April to 1 May 1979

SAMPLE VOLUMES - (NUMBER OF SPLITS)

(M\*\*3 - (#))

STATION:	TREATMENT		REFERENCE	
	INSHORE (T-1)	OFFSHORE (T-2)	INSHORE (C-1)	OFFSHORE (C-2)
-----				
MANTA NET:				
REP 1	106.3 (1)	106.7 (1)	104.4 (1)	115.2 (1)
REP 2	106.7 (1)	109.7 (1)	107.6 (1)	105.6 (1)
REP 3	105.7 (1)	108.6 (1)	103.3 (1)	107.1 (1)
REP 4	110.7 (1)	107.7 (1)	102.4 (1)	110.1 (1)
MEDIAN	<u>106.5</u>	MEDIAN <u>108.1</u>	MEDIAN <u>103.8</u>	MEDIAN <u>108.6</u>
MEAN	107.3	MEAN 108.2	MEAN 104.4	MEAN 109.5
S.D.	2.3	S.D. 1.3	S.D. 2.3	S.D. 4.2
BONGO NET:				
REP 1	355.3 (3)	386.1 (3)	375.5 (3)	375.6 (3)
REP 2	365.7 (3)	371.7 (3)	410.7 (3)	391.0 (3)
REP 3	372.4 (3)	380.9 (3)	395.4 (3)	407.3 (3)
REP 4	442.9 (3)	408.3 (3)	389.7 (3)	384.0 (3)
MEDIAN	<u>369.0</u>	MEDIAN <u>383.5</u>	MEDIAN <u>392.5</u>	MEDIAN <u>387.5</u>
MEAN	384.1	MEAN 386.7	MEAN 392.8	MEAN 389.5
S.D.	39.8	S.D. 15.6	S.D. 14.6	S.D. 13.4
AURIGA NET:				
REP 1	926.3 (5)	944.2 (5)	1027.5 (5)	1000.5 (5)
REP 2	960.0 (5)	969.8 (5)	1036.5 (5)	952.5 (5)
REP 3	930.0 (5)	967.5 (5)	1039.5 (5)	1102.5 (5)
REP 4	956.0 (5)	884.7 (5)	1062.0 (5)	1049.3 (5)
MEDIAN	<u>943.0</u>	MEDIAN <u>955.8</u>	MEDIAN <u>1038.0</u>	MEDIAN <u>1024.9</u>
MEAN	943.1	MEAN 941.5	MEAN 1041.4	MEAN 1026.2
S.D.	17.4	S.D. 39.6	S.D. 14.7	S.D. 64.4

Table V-21. Sample volumes for SONGS ichthyoplankton sampling,  
30 April to 1 May 1979 (Cont)

SAMPLE VOLUMES - (NUMBER OF SPLITS)			
(M**3 - (#))			
INTAKE			
NIELSEN FISH PUMP			
	TIME PERIOD:		
	MORNING	AFTERNOON	SUNSET
REP 1	100.0 (1)	100.0 (1)	100.0 (1)
REP 2	100.0 (1)	100.0 (1)	100.0 (1)
REP 3	100.0 (1)	100.0 (1)	100.0 (1)
REP 4	100.0 (1)	100.0 (1)	100.0 (1)
	-----	-----	-----
MEDIAN	100.0	100.0	100.0
MEAN	100.0	100.0	100.0
S.D.	0.0	0.0	0.0
	-----	-----	-----
	EVENING	NIGHT	SUNRISE
REP 1	100.0 (1)	100.0 (1)	100.0 (1)
REP 2	100.0 (1)	100.0 (1)	100.0 (1)
REP 3	100.0 (1)	100.0 (1)	100.0 (1)
REP 4	100.0 (1)	100.0 (1)	100.0 (1)
	-----	-----	-----
MEDIAN	100.0	100.0	100.0
MEAN	100.0	100.0	100.0
S.D.	0.0	0.0	0.0



Table V-22. Sample volumes for SONGS ichthyoplankton sampling,  
30-31 May 1979

## SAMPLE VOLUMES - (NUMBER OF SPLITS)

(M\*\*3 - (#))

STATION:	TREATMENT		REFERENCE	
	INSHORE (T-1)	OFFSHORE (T-2)	INSHORE (C-1)	OFFSHORE (C-2)
-----				
MANTA NET:				
REP 1	128.9 (2)	125.5 (2)	122.9 (2)	128.1 (2)
REP 2	125.7 (2)	129.2 (2)	117.9 (2)	113.8 (2)
REP 3	128.4 (2)	128.4 (2)	117.8 (2)	115.9 (2)
REP 4	126.5 (2)	130.8 (2)	119.7 (2)	123.5 (2)
MEDIAN	127.4	128.8	118.8	119.7
MEAN	127.4	128.5	119.6	120.3
S.D.	1.5	2.2	2.4	6.7
BONGO NET:				
REP 1	451.5 (3)	420.2 (3)	438.8 (3)	409.9 (3)
REP 2	423.6 (3)	436.6 (3)	418.1 (3)	411.1 (3)
REP 3	449.5 (3)	406.0 (3)	431.6 (3)	406.8 (3)
REP 4	433.4 (3)	434.0 (3)	409.1 (3)	457.2 (3)
MEDIAN	441.4	427.1	424.8	410.5
MEAN	439.5	424.2	424.4	421.2
S.D.	13.3	14.1	13.3	24.0
AURIGA NET:				
REP 1	770.0 (5)	894.3 (5)	839.7 (5)	816.9 (5)
REP 2	813.9 (5)	920.0 (5)	848.0 (5)	868.5 (5)
REP 3	855.6 (5)	837.9 (5)	830.6 (5)	809.3 (5)
REP 4	751.5 (5)	887.3 (5)	799.5 (5)	811.6 (5)
MEDIAN	791.9	890.8	835.1	814.2
MEAN	797.7	884.9	829.4	826.6
S.D.	46.6	34.3	21.2	28.1

Table V-22. Sample volumes for SONGS ichthyoplankton sampling,  
30-31 May 1979 (Cont)

SAMPLE VOLUMES - (NUMBER OF SPLITS)

(M\*\*3 - (#))

INTAKE

NIELSEN FISH PUMP

TIME PERIOD:

	MORNING	AFTERNOON	SUNSET
REP 1	100.0 (1)	100.0 (1)	100.0 (1)
REP 2	100.0 (1)	100.0 (1)	100.0 (1)
REP 3	100.0 (1)	100.0 (1)	100.0 (1)
REP 4	100.0 (1)	100.0 (1)	100.0 (1)
MEDIAN	100.0	100.0	100.0
MEAN	100.0	100.0	100.0
S.D.	0.0	0.0	0.0

	EVENING	NIGHT	SUNRISE
REP 1	100.0 (1)	100.0 (1)	100.0 (1)
REP 2	100.0 (1)	100.0 (1)	100.0 (1)
REP 3	100.0 (1)	100.0 (1)	100.0 (1)
REP 4	100.0 (1)	100.0 (1)	100.0 (1)
MEDIAN	100.0	100.0	100.0
MEAN	100.0	100.0	100.0
S.D.	0.0	0.0	0.0

Table V-23. Sample volumes for SONGS ichthyoplankton sampling,  
27-28 June 1979

## SAMPLE VOLUMES - (NUMBER OF SPLITS)

(M\*\*3 - (#))

STATION:	TREATMENT		REFERENCE	
	INSHORE (T-1)	OFFSHORE (T-2)	INSHORE (C-1)	OFFSHORE (C-2)
-----				
MANTA NET:				
REP 1	110.7 (2)	113.4 (2)	99.7 (2)	100.3 (2)
REP 2	120.9 (2)	100.4 (2)	101.7 (2)	100.0 (2)
REP 3	113.8 (2)	112.4 (2)	102.1 (2)	111.6 (2)
REP 4	<u>104.7</u> (2)	<u>122.3</u> (2)	<u>111.0</u> (2)	<u>104.3</u> (2)
MEDIAN	<u>112.2</u>	<u>112.9</u>	<u>101.9</u>	<u>102.3</u>
MEAN	112.5	112.1	103.6	104.0
S.D.	6.7	9.0	5.0	5.4
BONGO NET:				
REP 1	422.0 (3)	454.1 (3)	438.4 (3)	462.1 (3)
REP 2	477.5 (3)	477.3 (3)	398.8 (3)	439.3 (3)
REP 3	428.7 (3)	512.3 (3)	411.2 (3)	474.5 (3)
REP 4	<u>429.8</u> (3)	<u>557.0</u> (3)	<u>445.2</u> (3)	<u>428.4</u> (3)
MEDIAN	<u>429.2</u>	<u>494.8</u>	<u>424.8</u>	<u>450.7</u>
MEAN	439.5	500.2	423.4	451.1
S.D.	25.6	44.8	22.0	21.0
AURIGA NET:				
REP 1	910.6 (5)	1101.2 (5)	1128.5 (5)	1066.8 (5)
REP 2	868.5 (5)	927.2 (5)	1104.3 (5)	1009.1 (5)
REP 3	906.7 (5)	1056.9 (5)	1144.9 (5)	955.9 (5)
REP 4	<u>968.4</u> (5)	<u>1216.3</u> (5)	<u>1027.5</u> (5)	<u>1017.6</u> (5)
MEDIAN	<u>908.6</u>	<u>1079.0</u>	<u>1116.4</u>	<u>1013.3</u>
MEAN	913.5	1075.4	1101.3	1012.3
S.D.	41.2	119.5	51.9	45.4

Table V-23. Sample volumes for SONGS ichthyoplankton sampling,  
27-28 June 1979 (Cont)

SAMPLE VOLUMES - (NUMBER OF SPLITS)			
(M**3 - (#))			
INTAKE			
NIELSEN FISH PUMP			
	TIME PERIOD:		
	MORNING	AFTERNOON	SUNSET
REP 1	100.0 (0)	100.0 (0)	100.0 (0)
REP 2	100.0 (0)	100.0 (0)	100.0 (0)
REP 3	100.0 (0)	100.0 (0)	100.0 (0)
REP 4	100.0 (0)	100.0 (0)	100.0 (0)
	-----	-----	-----
MEDIAN	100.0	100.0	100.0
MEAN	100.0	100.0	100.0
S.D.	0.0	0.0	0.0
	TIME PERIOD:		
	EVENING	NIGHT	SUNRISE
REP 1	100.0 (0)	100.0 (0)	100.0 (0)
REP 2	100.0 (0)	100.0 (0)	100.0 (0)
REP 3	100.0 (0)	100.0 (0)	100.0 (0)
REP 4	100.0 (0)	100.0 (0)	100.0 (0)
	-----	-----	-----
MEDIAN	100.0	100.0	100.0
MEAN	100.0	100.0	100.0
S.D.	0.0	0.0	0.0

Table V-24. Sample volumes for SONGS ichthyoplankton sampling,  
30-31 July 1979

## SAMPLE VOLUMES - (NUMBER OF SPLITS)

(M\*\*3 = (#))

STATION:	TREATMENT		REFERENCE	
	INSHORE (T-1)	OFFSHORE (T-2)	INSHORE (C-1)	OFFSHORE (C-2)
-----				
MANTA NET:				
REP 1	134.5 (2)	113.1 (2)	102.8 (2)	116.5 (2)
REP 2	117.0 (2)	107.6 (2)	108.5 (2)	107.2 (2)
REP 3	109.3 (2)	108.0 (2)	99.9 (2)	108.0 (2)
REP 4	109.6 (2)	106.6 (2)	110.8 (2)	106.1 (2)
MEDIAN	113.3	107.8	105.6	107.6
MEAN	117.6	108.8	105.5	109.4
S.D.	11.8	2.9	5.0	4.8
BONGO NET:				
REP 1	406.6 (3)	422.0 (3)	406.3 (3)	443.7 (3)
REP 2	447.3 (3)	436.9 (3)	405.8 (3)	493.3 (3)
REP 3	407.4 (3)	419.0 (3)	445.6 (3)	425.5 (3)
REP 4	425.0 (3)	403.8 (3)	424.3 (3)	404.6 (3)
MEDIAN	416.2	420.5	415.3	434.6
MEAN	421.6	420.4	420.5	441.8
S.D.	19.1	13.6	18.8	37.9
AURIGA NET:				
REP 1	944.6 (5)	716.0 (5)	824.5 (5)	866.6 (5)
REP 2	945.4 (5)	854.1 (5)	865.0 (5)	850.2 (5)
REP 3	904.8 (5)	922.0 (5)	815.1 (5)	886.9 (5)
REP 4	820.6 (5)	0.0 (0)	766.0 (5)	839.3 (5)
MEDIAN	924.7	854.1	819.8	858.4
MEAN	903.8	830.7	817.6	860.7
S.D.	58.6	105.0	40.7	20.7

Table V-24. Sample volumes for SONGS ichthyoplankton sampling,  
30-31 July 1979 (Cont)

SAMPLE VOLUMES - (NUMBER OF SPLITS)

(M\*\*3 - (#))

INTAKE

NIELSEN FISH PUMP

TIME PERIOD:	MORNING			AFTERNOON			SUNSET		
	-----			-----			-----		
REP 1	100.0	(2)		100.0	(2)		100.0	(2)	
REP 2	100.0	(2)		100.0	(2)		100.0	(2)	
REP 3	100.0	(2)		100.0	(2)		100.0	(2)	
REP 4	100.0	(2)		100.0	(2)		100.0	(2)	
MEDIAN	100.0			100.0			100.0		
MEAN	100.0			100.0			100.0		
S.D.	0.0			0.0			0.0		
	EVENING			NIGHT			SUNRISE		
	-----			-----			-----		
REP 1	100.0	(2)		100.0	(2)		100.0	(2)	
REP 2	100.0	(2)		100.0	(2)		100.0	(2)	
REP 3	100.0	(2)		100.0	(2)		100.0	(2)	
REP 4	100.0	(2)		100.0	(2)		100.0	(2)	
MEDIAN	100.0			100.0			100.0		
MEAN	100.0			100.0			100.0		
S.D.	0.0			0.0			0.0		

## VI. ICHTHYOPLANKTON ABUNDANCE AND DISTRIBUTION

Abundance and distribution of larvae and eggs in the SONGS area were determined to assess the impact of larval withdrawal by Unit 1 on local populations.

### METHODS

Samples of entrained ichthyoplankton were pumped from the intake riser Fig. VI-1 of San Onofre Unit 1 using a centrifugal whorl Nielsen Model NCH Fish Pump. The filtering device was a 333 micron Nitex net with an initial mouth opening of 25.4 cm. At the point of filtration, the net flares to a 1 m diameter. The filtering ratio of the Fish Pump Net is 4.26, with a total mesh area of 7.32 m<sup>2</sup>. The cylinder and cone areas are 4.39 m<sup>2</sup> and 2.93 m<sup>2</sup>, respectively.

Intake samples were collected via a 1 m metal standpipe projecting through a manhole in the velocity cap. The standpipe was lengthened to 3 m in October 1977.

From August through October 1977 samples were pumped continuously for four hours during the day and at night. To reduce morphological damage to the sampled larvae, the four one-hour periods were modified to eight half-hour intervals in November and December 1977.

In January 1978 the day sampling period was divided into two distinct halves, and half-hour samples were pumped for two distinct two-hour periods. Half-hour night samples were pumped from 2100 to 0100 PST.

In February 1978 the final sampling regime was initiated, interrupted only in March 1978 when the intake hose was temporarily unusable, and September 1978 when the generating station was refueling. The new regime was comprised of 24 half-hour pump samples with four morning and four afternoon samplings during the day, and four evening and four pre-dawn samplings at night. Four half-hour samples were collected during both the sunrise and sunset crepuscular periods.

Intake samples were preserved with 4% buffered Formalin-seawater. Volumes of water pumped were determined by a General Oceanics (GO) Model 2030 flowmeter mounted in the intake hose.

Offshore, three vertical levels were sampled for ichthyoplankton. Surface samples were taken with a Manta net (Brown, unpublished) designed to sample the upper 14 cm of the water column. The mouth is rectangular with an area of 0.13 m<sup>2</sup> (0.86x0.15 m). The Manta Net mouth is mounted with both General Oceanics (GO) and Tsurumi Seiki (TSK) flowmeters.

The midwater sampling device was a paired 0.6 m opening-closing Bongo net, with a combined mouth area of 0.57 m<sup>2</sup>. A GO flowmeter is mounted in each Bongo Net. Net depth was monitored via a deck readout Hydroproducts Model 902 Bathykymograph mounted on the net frame.

The epibenthic sampling device (Auriga II; Mitchell, unpublished) was designed to sample over rock or cobble terrain within 21 cm of the bottom. The mouth is rectangular (2.0 x 0.5 m) with an area of 1 m<sup>2</sup>. Both GO and TSK flowmeters are mounted in the Auriga mouth.

Towed net samples were taken at three levels at three stations designated 12, 13, and 14. Station 12 initiated at the Unit 1 intake and continued upcoast (NW) along the intake isobath (8 m). Station 13 initiated offshore at the intersection of the projected line of the Unit 1 intake and the midpoint of the Unit 3 discharge conduit (10 m). Station 14 was located along the projected Unit 1 intake line at the midpoint of the Unit 2 discharge diffuser (14 m). From August through December 1977 one replicate of each sampling gear was taken at each station during day and night. The Bongo Net fished at each of three depths (1, 3, and 6 m at Station 12; 1, 3, and 7 m at Station 13; and 1, 5, and 10 m at Station 14) for eight minutes. Stations 12 and 14 were sampled only at night in January 1978. Five replicates of each gear were collected at Station 12, and one replicate of each gear at Station 14. Station 13 was not sampled. Bongo nets were maintained at each depth for four minutes. In February 1978, four replicate samples were collected only at night at Stations 12 and 14. Bongo nets were maintained at each depth for three minutes.

In March 1978 sampling protocol was finalized. Offshore tow tracks were adopted that paralleled the discharge diffusers between the construction piers for the Units 2 and 3 discharge conduit (Fig. VI-1). Tow tracks of 762 m, having depths ranging from 8 to 11 m (Treatment 1 and Reference 1) and 12 to 15 m (Treatment 2 and Reference 2) were sampled. A reference area located beyond the projected region of influence of the generating station intake and discharge was established north of San Mateo Point (Fig. VI-1). The reference area (5.8 km upcoast) was similar to the area offshore of the generating station in contour and bottom composition, and in the proximity of a kelp bed downcoast of the transects. Two tow tracks 762 m long (Reference 1 and 2, designated C-1 and C-2) were established at the same depths as those sampled in the treatment area. Four replicate tows with each type of gear were collected at each of the four stations.

All net collections were made with 333 micron mesh and preserved in 4% buffered Formalin-seawater.

Beginning in March 1978, temperature of the water column was measured using a Martek Mark II water quality profiler.

Field samples were sorted in the laboratory with the aid of dissection microscopy. Reduction in size of samples, where necessary, was accomplished by Folsom Splitter. Auriga net samples were occasionally treated with a 1.2 x (H<sub>2</sub>O) density MgSO<sub>4</sub> solution (Watson, unpublished) to facilitate the separation of plant debris from the plankton portion of the sample. All larvae were sorted and identified. Eggs were sorted as anchovy and other, with counts of each determined. A final resort resulted in a >99% recovery rate for eggs and larvae.

## RESULTS

Concentrations of eggs and larvae are presented by month, subdivided by gear type. Individual replicates for each transect are presented.



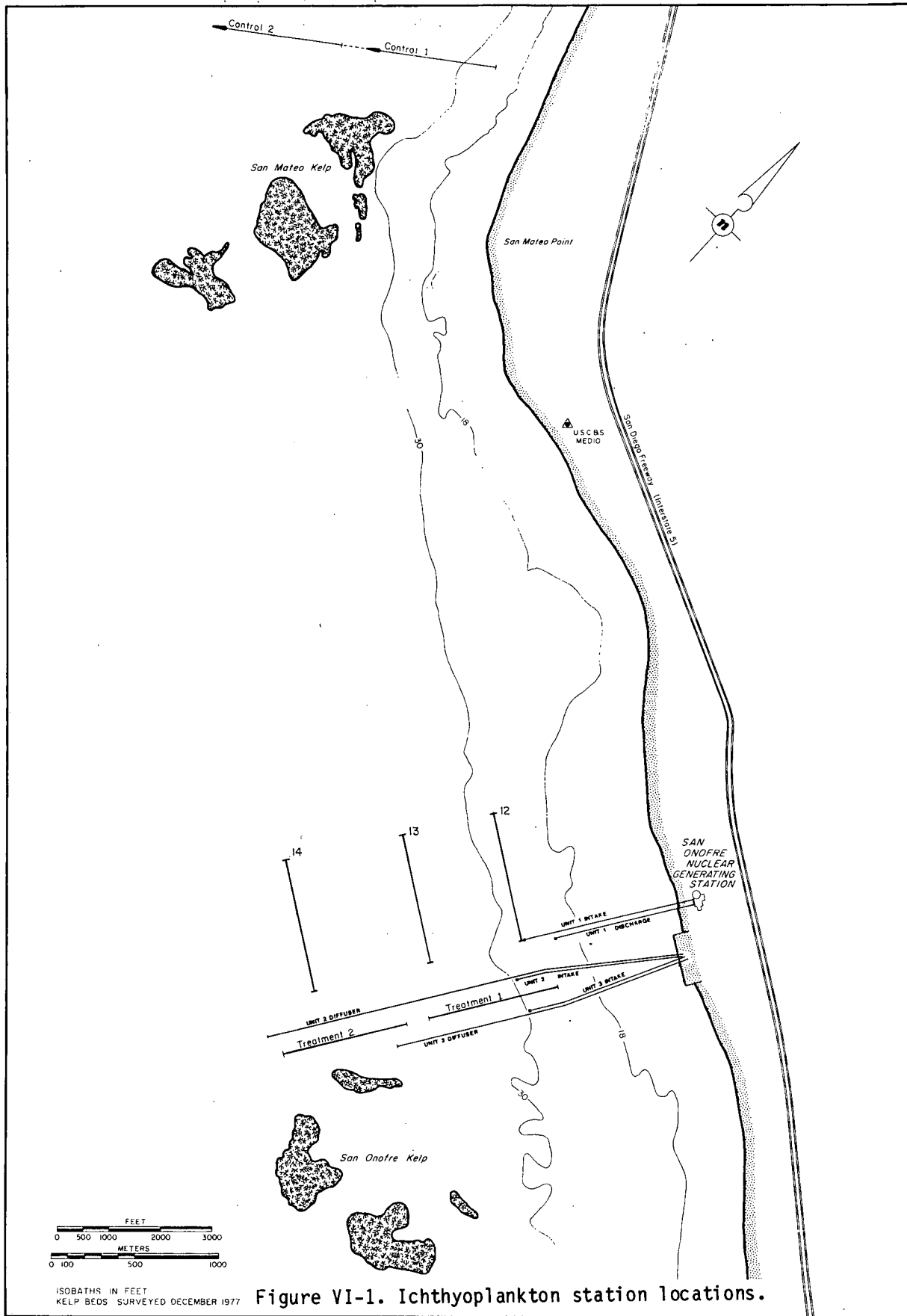


Figure VI-1. Ichthyoplankton station locations.

Table VI-1. Fish egg concentrations for SONGS ichthyoplankton sampling program 11-12 August 1977.

(#/1000 m<sup>3</sup>)

	<u>E. mordax</u> Eggs	Total Eggs
<u>Intake Pump</u>		
Day	3,609	45,169
Night	542	18,974
<u>Manta Net</u>		
Station 12		
Day	27	6,237
Night	0	53,941
Station 13		
Day	155	50,354
Night	120	121,003
Station 14		
Day	1,065	111,425
Night	9,646	121,057
<u>Bongo Net</u>		
Station 12		
Day	598	7,810
Night	555	20,581
Station 13		
Day	1,224	26,740
Night	6,793	49,215
Station 14		
Day	10,466	16,871
Night	5,968	19,904
<u>Auriga Net</u>		
Station 12		
Day	0	965
Night	119	891
Station 13		
Day	25	2,273
Night	54	487
Station 14		
Day	51	1,448
Night	47	1,724

Table VI-2. Fish egg concentrations for SONGS ichthyoplankton sampling program 8-9 September 1977.

(#/1000 m<sup>3</sup>)

	<u>E. mordax</u> Eggs	Total Eggs
<u>Intake Pump</u>		
Day	1	588
Night	4	1,009
<u>Manta Net</u>		
Station 12		
Day	0	23,210
Night	0	1,633
Station 13		
Day	0	41,370
Night	0	12,384
Station 14		
Day	77	30,914
Night	0	23,182
<u>Bongo Net</u>		
Station 12		
Day	4	3,191
Night	2	1,550
Station 13		
Day	7	5,666
Night	0	2,379
Station 14		
Day	0	14,071
Night	0	3,560
<u>Auriga Net</u>		
Station 12		
Day	0	782
Night	0	560
Station 13		
Day	0	993
Night	0	1,468
Station 14		
Day	0	2,218
Night	0	1,318

Table VI-3. Number of individuals collected in SONGS offshore tows and intake samples, 11-12 August and 8-9 September 1977.

(No./1000 m<sup>3</sup>)  
11-12 August 1977

Species	Intake Pump		Manta Net				Bongo Net				Auriga Net									
	Intake		Station 12		Station 13		Station 14		Station 12		Station 13		Station 14							
	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night						
<u>Engraulis mordax</u>	3	15			3		107	61	50	36	198	5667	4194	11435	1287	1484	379	2710	101	1581
<u>Diogenichthys atlantica</u>															2					
<u>Triphoturus mexicanus</u>												2		13						
<u>Porichthys notatus</u>																		30		
<u>Gobiesox rhesodon</u>		3				4			2	2	8	11	32	9	1094	1958	455	1409	135	3116
<u>Cypselurus spp.</u>			3			7		10	9											
<u>Cololabis saira</u>						13		7												
Atherinidae, unid.			55	557	23	34	7													
<u>Atherinopsis californiensis</u>						4														
<u>Leuresthes tenuis</u>						46														
<u>Syngnathus spp.</u>						4			4					2						
Cottidae, unid.																				47
<u>Paralabrax spp.</u>									2					16	2					
<u>Paralabrax sp. B</u>												20	154	845						
<u>Paralabrax sp. C</u>												2	11	11						
<u>Anisotremus davidsonii</u>							4	4				2	73	54	141					
<u>Eucinostomus argenteus</u>									2											
<u>Chelotremata saturnum</u>													9	2	32	90	25			
<u>Menticirrhus undulatus</u>																				
Sciaenidae, sp. A															10616	34031	7600	3794	168	
Sciaenidae, unid.							4	4	6	45	5	234	377	160				379	34	3302
<u>Seriphus politus</u>	2	99						14	271	66	162	189	457	1126			6313	271		47
<u>Girella nigricans</u>															2					
<u>Sphyraena argentea</u>									2	16	5		31	5						
<u>Oxyjulis californica</u>									2	2				40						
<u>Hypsoblennius spp.</u>	10	4	7	82	16	187	130	175	4	27	23	79	24	110						
<u>Heterostichus rostratus</u>																32	253		556	1907
Clinidae, unid.									4	4	5			32						
Gobiidae Type A		7	3						16	4		38	18	15	708	297		217		
<u>Scomber japonicus</u>			17			4			8		2	44	49	42	32					
<u>Papilllis similis</u>												24	27							
<u>Symphurus atricauda</u>												7	2	2						
<u>Hypsopsetta guttulata</u>													2	7						
<u>Paralichthys californicus</u>										4				2						
<u>Pleuronichthys ritteri</u>													2	2						
<u>Pleuronichthys spp.</u>													2	18						
Carangidae Type A													2	7						
<u>Citharichthys spp.</u>													2	9						
Unidentified Larvae	1						17		18	7	4	9				267				47
Larval Fragments		88	10									244	24	125		119	101	12		
Number of Taxa	4	6	7	5	5	5	6	6	11	10	12	20	19	25	10	7	7	7	5	7
Number of Individuals	16	216	105	693	62	233	278	257	124	359	378	6421	5058	13738	15119	38276	15126	8792	994	10047

8-9 September 1977

Species	Intake Pump		Manta Net				Bongo Net				Auriga Net									
	Intake		Station 12		Station 13		Station 14		Station 12		Station 13		Station 14							
	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night						
<u>Engraulis mordax</u>		168		5		8		15	10	49	21	1186	49	2182	165	386	1289	1227	1976	5620
<u>Porichthys notatus</u>						8				6								9		44
<u>Rimicola sp. A</u>																35				
<u>Gobiesox rhesodon</u>		1							8	32	10	36	112	54	865	351	350	557	568	878
<u>Euleptarhamphus longirostris</u>						8	8													
<u>Atherinops affinis</u>				4																
<u>Atherinopsis californicus</u>			6	484		25														
<u>Leuresthes tenuis</u>						74		5												
Atherinidae, unid.			25	21	142	33	4	5												
<u>Syngnathus spp.</u>		1		5	8			5		4	2			2						
<u>Paralabrax spp.</u>			6																	27
<u>Paralabrax sp. B</u>				5									7	4	22					
<u>Trachurus symmetricus</u>														6	2					
<u>Anisotremus davidsonii</u>		6								2		11	4							
<u>Seriphus politus</u>	1	203		11		49		133		709	8	487	36	385	4243	11474	376	1366	325	263
<u>Chelotremata saturnum</u>		1				8		5				9		2	9					
<u>Menticirrhus undulatus</u>				6										2						
Sciaenidae, unid.				6																
<u>Girella nigricans</u>						8		5												
<u>Sphyraena argentea</u>								5			2									
<u>Oxyjulis californica</u>				11				44			2	2								
<u>Hypsoblennius sp.</u>				43	17	90	4	5			4	5	15	10	9					
<u>Heterostichus rostratus</u>										2		7	2		41	70		2		44
Clinidae, unid.				5								42	3	20	11		21	8		
<u>Iyphlogobius californiensis</u>												3								
Gobiidae Type A				5		33						42	3	74	4	28	700	140	229	201
<u>Lepidogobius lepidus</u>													7							
<u>Scomber japonicus</u>												2		12	2					
<u>Papilllis similis</u>						8														
<u>Hypopsetta guttulata</u>												4	4		6	9				
<u>Paralichthys californicus</u>											4	4		2	32	21				
<u>Pleuronichthys verticalis</u>												2		2	2					
<u>Pleuronichthys spp.</u>		1																		
<u>Citharichthys stigmaeus</u>																				2
<u>Citharichthys spp.</u>		1												2	2					
Unidentified Larvae		1		5						2	9									
Mutilated Larvae	8	1								2		2	2	40						
Larval Fragments		6	13		50	8		10			15	3	38	6	20	165	105	21	104	162
Number of Taxa	6	10	7	11	5	13	2	11	6	13	17	15	16	14	6	8	6	9	6	6
Number of Individuals	30	391	68	600	225	360	8	237	28	925	76	1934	321	2756	6179	12631	2286	3476	3464	7112

Table VI-4. Fish egg concentrations for SONGS ichthyoplankton  
 sampling program 13-14 October 1977.  
 (#/1000 m<sup>3</sup>)

	<u>E. mordax</u> Eggs	Total Eggs
<u>Intake Pump</u>		
Day	0	80
Night	39	396
<u>Manta Net</u>		
Station 12		
Day	6	1,132
Night	45	464
Station 13		
Day	49	1,066
Night	377	2,955
Station 14		
Day	119,620	122,986
Night	54,038	63,064
<u>Bongo Net</u>		
Station 12		
Day	676	880
Night	151	488
Station 13		
Day	12	452
Night	85	602
Station 14		
Day	33,443	35,400
Night	5,222	6,294
<u>Auriga Net</u>		
Station 12		
Day	0	151
Night	18	582
Station 13		
Day	0	592
Night	69	4,145
Station 14		
Day	45	886
Night	0	536

Table VI-5. Fish egg concentrations for SONGS ichthyoplankton  
 sampling program 29-30 November 1977.  
 (#/1000 m<sup>3</sup>)

Rep. <u>E. mordax</u> Eggs Total Eggs			<u>E. mordax</u> Eggs Total Eggs			
<u>Intake Pump</u>			<u>Manta Net</u>			
Day	1	65	461		Station 12	
	2	65	409	Day	45	522
	3	29	310	Night	96	1,149
	4	14	264			Station 13
	5	29	230			
	6	0	201	Day	70	941
	7	0	295	Night	151	2,490
	8	7	215			
Night	1	35	514			Station 14
	2	275	1,015			
	3	240	986	Day	709	10,987
	4	514	1,633	Night	444	8,131
	5	578	1,578			
	6	676	1,662	<u>Bongo Net</u>		Station 12
	7	458	1,205	Day	62	1,189
	8	303	1,204	Night	193	6,532
						Station 13
				Day	122	1,215
				Night	466	6,537
						Station 14
				Day	778	6,226
				Night	670	28,227
				<u>Auriga Net</u>		Station 12
				Day	0	72
				Night	70	140
						Station 13
				Day	160	1,192
				Night	1,618	2,397
						Station 14
				Day	64	774
				Night	3,509	4,174

Table VI-6. Number of individuals collected in SONGS offshore tows and intake samples, 13-14 October and 29-30 November 1977.

(No./1000 m<sup>3</sup>)  
13-14 October 1977

Species	Intake Pump		Manta Net				Bongo Net				Auriga Net								
	Intake	Intake	Station 12		Station 13		Station 14		Station 12		Station 13		Station 14						
	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night					
<i>Engraulis mordax</i>	4	102	6	4	5			8	265	109	185		1665	3416	1421	2677	9443	163	2077
<i>Porichthys</i> sp.														17					
<i>Rimicola</i> sp. A														17					
<i>Gobiesox rhesodon</i>										3					18		139	30	
<i>Genyonemus lineatus</i>														17	18	13	52		
Atherinidae, unid.			67	4															
Syngnathus spp.						4													
<i>Seriphus politus</i>	1	4												1255	378	64	261		
<i>Chromis punctipinnis</i>						4													
<i>Hypsoblennius</i> sp.						4	132												
<i>Heterostichus rostratus</i>															18				
Clinidae, unid.		2	6	4										83				174	
<i>Lepidogobius lepidus</i>		1						4	18	6	3								
Gobiidae unid. A											3								
<i>Hypopsetta guttulata</i>				6										116	110	141	17		
<i>Citharichthys</i> spp.										5			9	34					
<i>Symphurus atricauda</i>																		17	
Unidentified Larvae													27						38
Mutilated Larvae		64		4	16														
Larval Fragments	4		17	4						3				83			139	88	

29-30 November 1977

Species	Intake Pump		Manta Net				Bongo Net				Auriga Net									
	Intake	Intake	Station 12		Station 13		Station 14		Station 12		Station 13		Station 14							
	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night						
<i>Engraulis mordax</i>		38	3	7	11	8	48	11	5	139	35	154	114	507	234	42	832	332	432	788
<i>Gobiesox rhesodon</i>															42	67	58	15	108	
<i>Atherinopsis californiensis</i>			97	85	159	102	360	66			6	4	5							
Syngnathus spp.				4	4															
<i>Genyonemus lineatus</i>		1											41			17	43	60	15	
<i>Menticirrhus undulatus</i>		2																		
<i>Seriphus politus</i>														90	42		72	15	46	
Sciaenidae, unid.																				
<i>Hypsoblennius</i> sp.	1	1															17			
<i>Paraclinus integripinnus</i>					7				15		6			126	140	83	87	45	247	
Clinidae, unid.		2	35			15									126	83				
Gobiidae Type A		7				19					32			72	29	183	43		15	
<i>Hypopsetta guttulata</i>		1		7			4	5			13		8	5						
<i>Citharichthys</i> spp.														5						
Unidentified Larvae											22	6	21							
Mutilated Larvae		6							5		6								15	
Number of Taxa	1	9	3	4	4	4	2	3	2	3	5	3	7	4	7	8	7	5	9	
Number of Individuals	1	59	135	103	181	144	408	81	15	154	70	210	126	589	522	421	1282	635	567	1234

Table VI-7. Fish egg concentrations for SONGS ichthyoplankton  
 sampling program 28-30 December 1977.  
 (#/1000 m<sup>3</sup>)

Rep. <u>E. mordax</u> Eggs Total Eggs				Rep. <u>E. mordax</u> Eggs Total Eggs			
<u>Intake Pump</u>				<u>Manta Net</u>			
				Station 12			
Day	1	194	3,752	Day	304	7,397	
	2	388	5,642	Night	290	8,113	
	3	776	7,562				
	4	999	8,704				
	5	1,057	4,988				Station 13
	6	978	8,353				
	7	719	8,453	Day	454	8,894	
	8	834	8,403	Night	1,372	25,940	
Night	1	101	5,839				Station 14
	2	115	3,998				
	3	101	4,821	Day	704	5,334	
	4	29	4,496	Night	895	12,591	
	5	65	3,406				
	6	130	3,818	<u>Bongo Net</u>			
	7	65	3,572	Station 12			
	8	79	3,493	Day	191	6,281	
				Night	720	10,001	
							Station 13
				Day	338	11,549	
				Night	1,169	22,616	
							Station 14
				Day	587	5,552	
				Night	1,240	12,476	
				<u>Auriga Net</u>			
				Station 12			
				Day	264	3,192	
				Night	19	1,278	
							Station 13
				Day	975	5,753	
				Night	296	1,864	
							Station 14
				Day	105	1,074	
				Night	61	536	



Table VI-8. Fish egg concentrations for SONGS ichthyoplankton  
sampling program 26-27 January 1978.  
(#/1000 m<sup>3</sup>)

		Intake		Manta Net		Bongo Net		Auriga Net		
		<u>E. mordax</u>	Total	Rep	<u>E. mordax</u>	Total	<u>E. mordax</u>	Total	<u>E. mordax</u>	Total
Station 12										
Day	31	1,170		1	0	1,155	26	4,362	0	1,407
Night	27	3,756		2	12	1,615	44	4,017	33	4,569
				3	5	3,369	14	2,360	24	3,361
				4	9	1,849	46	2,874	0	1,141
				5	10	2,065	25	1,370	10	1,595
Station 14										
				1	31	5,257	17	7,486	0	9,628

Table VI-9. Number of individuals collected in SONGS offshore tows and intake samples, 28-30 December and 26-27 January 1978

(No./1000 m<sup>3</sup>)  
29-30 December 1977

Species	Intake Pump		Manta Net			Bongo Net				Auriga Net							
	Intake	Intake	Station 12	Station 13	Station 14	Station 12	Station 13	Station 14	Station 12	Station 13	Station 14						
	Day	Night	Day	Night	Day	Day	Night	Day	Day	Night	Day	Night					
<i>Engraulis mordax</i>	11	17	105	78	61	49	644	133	1058	40	14	156	53	17	59	202	43
<i>Gobiesox meandricus</i>																8	
<i>G. rhessodon</i>																16	
<i>Rimicola</i> sp.					15									19			
<i>Cololabis saira</i>																	
<i>Leuresthes tenuis</i>	1	9	12	13													
<i>Atherinopsis californiensis</i>			2676	444	2791	15	635		36	116	5	23		10			
Beloniformes Type A								33									
<i>Syngnathus</i> spp.						11						5					
<i>Paralabrax</i> sp. B		1															
<i>Genyonemus lineatus</i>												5			8		8
Sciaenidae, unid.													5				
<i>Oxyjulis californica</i>					39								9				
<i>Hypsoblennius</i> spp.	6	1						5		23				10			
<i>Heterostichus rostratus</i>			23										26	68			81
Clinidae Type A								18		5							
Clinidae Type B																	10
Clinidae, unid.			58		13												
Gobiidae Type A	1							9	14	14		5	5	114	39	41	20
<i>Hypopsetta guttulata</i>								5									
<i>Xystreurus liolepis</i>										5							
Citharichthys spp.								65	5				5				
Unidentified Larvae																	
Larval Fragments			140		65												
Number of Taxa	4	4	6	3	5	3	2	3	6	3	6	2	5	4	4	5	3
Number of Individuals	19	28	3014	470	2986	91	646	147	686	183	1221	45	52	171	202	146	66

26-27 January 1978

Species	Intake Pump		Manta Net (Night)					Bongo Net (Night)					Auriga Net (Night)								
	Intake	Intake	Stations 12					12					12								
	Day	Night	Reps	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5			
<i>Engraulis mordax</i>	915	1441		13	4	19	14	29	15	1399	999	1272	968	986	1703	359	667	463	386	774	2396
<i>Gobiesox rhessodon</i>																					22
<i>Rimicola eigenmanni</i>																				16	29
<i>Rimicola</i> sp.																				10	
<i>Atherinopsis californiensis</i>	5	163		45	83	127	209	367	423	61	37	35	38	50	50	23	33	36	8	19	
<i>Genyonemus lineatus</i>	179	284						10		79	52	106	31	58	91	604	862	511	394	1671	788
<i>Hypsoblennius</i> spp.	10																				
<i>Heterostichus rostratus</i>										26		14	8	25	17						19
<i>Paraclinus integrirpinus</i>										9											
<i>P. uninotatus</i>																					4
Clinidae Type A	5	32		4						61	104	42	31	67	8						
Clinidae, unid.																					11
Gobiidae Type A	15	3										35		25							
<i>Symphurus atricauda</i>										9											19
Mutilated Larvae	31	33													8	15	65	48	24	48	11
Larval Fragments			3	13	28	10	19	52	20	9	37	42	8	25		38	98	36	8	38	194
Number of Taxa	7	8		4	3	3	3	4	3	8	5	7	6	7	6	5	4	4	5	9	6
Number of Individuals	1160	1963		75	115	126	242	458	458	1653	1229	1546	1084	1236	1877	1062	1725	1094	836	2637	3426

Table VI-10. Fish egg concentrations for SONGS ichthyoplankton sampling program 27-28 February 1978.

(#/1000 m<sup>3</sup>)

Intake Sampling Period	Manta Net		Bongo Net				Auriga Net								
	E. mordax	Total	Sta.	Rep.	E. mordax	Total	Sta.	Rep.	Net	E. mordax	Total	Sta.	Rep.	E. mordax	Total
1300-1330	1,448	17,372	12	1	539	5,414	12	1	I	363	4,186	12	1	238	3,530
1400-1430	1,514	11,732		2	723	8,695			II	961	11,041		2	631	6,809
1431-1501	1,105	14,807		3	520	6,895		2	I	1,351	13,628		3	733	7,762
1502-1532	896	16,568		4	364	6,013			II	565	8,349		4	535	5,792
								3	I	1,168	10,260				
1653-1723	380	11,537	14	1	3,644	27,273			II	701	8,051	14	1	704	7,015
1724-1754	602	9,700		2	2,693	24,730		4	I	809	9,528		2	740	6,947
1755-1825	1,120	12,175		3	724	20,168			II	404	7,393		3	674	6,537
1826-1856	588	10,514		4	616	18,795							4	904	8,296
							14	1	I	2,005	22,757				
2102-2132	683	9,032							II	2,118	19,385				
2133-2203	1,293	10,038						2	I	1,534	15,622				
2204-2234	1,213	9,706							II	1,959	16,826				
2235-2305	753	7,759						3	I	848	11,378				
									II	669	11,801				
0100-0130	306	5,277						4	I	802	11,687				
0202-0232	455	4,474							II	597	8,622				
0329-0359	800	11,055													
0400-0443	810	16,339													
0534-0604	4,357	14,000													
0605-0635	780	10,527													
0638-0708	382	8,016													
0709-0739	852	8,287													
0900-0930	1,794	11,988													
0942-1012	6,100	23,166													
1027-1057	6,332	18,224													
1105-1135	5,175	16,797													

Table VI-11. Number of individuals collected in SONGS offshore tows, 27-28 February 1978.

(No./1000 m<sup>3</sup>)

	Manta Net (Night)								Bongo Net (Night)								Auriga Net (Night)								
	Stations 12				14				12				14				12				14				
	Reps	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4				
<i>Engraulis mordax</i>	344	852	625	430	684	774	1389	1469	534	2296	2134	2686	3372	2064	12314	12500	1864	2084	1172	2824	1976	3740	1408	4652	
<i>Gobiesox rhessodon</i>						10	10										16	36		36					
Gobiesocidae, unid.																			16						
<i>Atherinopsis californiensis</i>	279	291	354	430	361	372	655	431	24	20	12	34	24	56	20		520	8							
<i>Syngnathus</i> spp.						10											8							8	
Sebastes Type 3																									
Sebastes Type 7																									
Sebastes Type 9																12							8		
Sebastes Type 10																									
Cottidae, unid.																								8	
<i>Genyonemus lineatus</i>	74	76	83	41	233	274	347	600	160	638	64	472	1674	2254	4172	1810	696		488	1424	3576	6152	9960	7020	
<i>Hypsoblennius</i> spp.		11						9		12													8		
<i>Paraclinus integripinnis</i>											12												8		
<i>Heterostichus rostratus</i>	9								48	74	56		12		10		36	64	80	72					
Cliniidae Type A										10	12														
<i>Gillichthys mirabilis</i>																			16						
<i>Lepidogobius lepidus</i>											12												48	60	16
Gobiidae Type A	28	11		8	8				24	10	34	22	24	134	52	60	164	176	364	56		116	96	160	
Gobiidae Type D																							24		
Gobiidae, unid.																						8			
<i>Peprilus simillimus</i>								35					12												
<i>Paralichthys californicus</i>		11		17			10	9			22	22	12	44	10		8								
<i>Citharichthys</i> spp.										12															
<i>Pleuronichthys ritteri</i>	9																								
<i>Hypsopsetta guttulata</i>					8	10	10	9						24			8								
Yolk Sac Larvae, unid.		86		8	75	10	188	352	54	36		12	536	414	704	288							24		
Unidentified No. 3																								16	
Mutilated, unid.	84			25	30				118	24				12	122	144	8	8	8	16	324	40	148		
Larval Fragments	46	11		17	83	20	20	62	22	24	22	90	112	94	112	94	84	28	28	800		56	672	240	
Number of Taxa	7	8	3	7	7	8	8	9	4	9	7	10	9	8	9	8	6	10	6	6	5	8	8	7	
Number of Individuals	799	1349	1062	976	1482	1480	2629	3036	888	3138	2334	3408	5796	4910	17694	14928	2764	2928	1968	5536	5940	10208	12368	12112	

Table VI-12. Number of individuals collected in SONGS intake samples, 27-28 February 1978.

Intake Samples						
	1300- 1532	1653- 1856	2102- 2305	0100- 0443	0534- 0739	0900- 1135
	Mean #/1000 m <sup>3</sup>					
<u>Engraulis mordax</u>	470	518	1309	3742	938	2158
<u>Atherinopsis californiensis</u>		18	24	18		
<u>Genyonemus lineatus</u>	130	280	328	520	360	502
<u>Heterostichus rostratus</u>		18		18		
<u>Lepidogobius lepidus</u>			24			
Gobiidae type A		36				
Gobiidae Type D		18				
<u>Paralichthys californicus</u>	18					
Yolk Sac Larvae, unid.	18			38		
Unidentified No. 1		36				
Mutilated Larvae, unid.	20	267	403	132	170	200
Larval Fragments	132	54		128	36	82
Number of Taxa	5	8	5	6	3	3
Number of Individuals	788	1220	2088	4596	1504	2442
	Median #/1000 m <sup>3</sup>					
<u>Engraulis mordax</u>	448	336	1352	4344	542	1584
<u>Atherinopsis californiensis</u>						
<u>Genyonemus lineatus</u>	112	336	304	372	388	464
<u>Heterostichus rostratus</u>						
<u>Lepidogobius lepidus</u>						
Gobiidae type A		36				
Gobiidae Type D						
<u>Paralichthys californicus</u>						
Yolk Sac Larvae, unid.				36		
Unidentified No. 1		36				
Mutilated Larvae, unid.		260	376	112	224	196
Larval Fragments	148	36		108		80
Number of Taxa	3	5	3	4	3	3
Number of Individuals	708	1040	2032	4972	1154	2324

Table VI-13. Fish egg concentrations for SONGS ichthyoplankton sampling program 27-28 March 1978.

## NUMBER OF EGGS/1000 M\*\*3\*

STATION: NET TYPE	REPLICATE	T-1		T-2		C-1		C-2	
		ANCHOVY	TOTAL	ANCHOVY	TOTAL	ANCHOVY	TOTAL	ANCHOVY	TOTAL
MANTA	1	3001	9522	11929	29152	27192	31722	15449	26772
	2	1589	14253	13333	30042	20991	26254	19681	30154
	3	1376	15895	16022	30043	25212	31605	18166	29747
	4	1640	11305	13460	22967	18819	22086	12561	20078
BONGO	1	2327	4441	24260	46371	10090	13440	18633	19625
	2	5336	12446	15991	29238	21064	28812	71837	75138
	3	9070	23140	20788	42983	57844	75545	15940	40071
	4	4350	9375	17077	30006	18919	23052	23638	27440
AURIGA	1	2158	7013	1019	5727	8578	14740	5046	7174
	2	498	6449	978	5307	7069	13498	8587	13020
	3	1769	6726	2301	9323	6117	12466	6262	8537
	4	1536	7296	2066	7547	6891	12181	6528	10655

TIME OF DAY: INTAKE-PUMP REPLICATE	MORNING		AFTERNOON		SUNSET	
	ANCHOVY	TOTAL	ANCHOVY	TOTAL	ANCHOVY	TOTAL
1	0	625	417	1000	0	1333
2	167	1083	333	1167	0	1167
3	333	583	167	1250	250	2500
4	167	500	0	833	53	532

TIME OF DAY: INTAKE-PUMP REPLICATE	BEFORE MIDNIGHT		AFTER MIDNIGHT		SUNRISE	
	ANCHOVY	TOTAL	ANCHOVY	TOTAL	ANCHOVY	TOTAL
1	167	1000	583	2250	250	1583
2	167	2083	333	2083	1000	2583
3	0	3500	417	1500	0	0
4	417	3333	500	2000	0	0

(Data from Marine Ecological Consultants)

\*(M\*\*3 = m<sup>3</sup>)

Table VI-14. Number of individuals collected in SONGS offshore tows, 27-28 March 1978.

MANTA NET NUMBER OF INDIVIDUALS/1000M <sup>3</sup>																	
SPECIES NAME	REPLICATE:	STATION T-1				STATION T-2				STATION C-1				STATION C-2			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
ENGRAULIS MORDAX		530	421	131	1005	2554	4735	1359	130	1755	439	3413	219	4595	4758	7117	923
GOBIESOCIDAE, UNID.		10	11	.	.	.	.	.	.	10	.	.	.	.	.	.	.
OTOPHIDIUM SCHIPPISI		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
COLOLABIS BAIRA		.	.	.	.	.	.	.	.	10	.	.	.	.	.	.	.
ATHERINIDAE, UNID.		.	.	2009	2646	19	11	22	214	.	18	18	.	.	.	.	.
ATHERINIDAE, TYPE C		2305	3147	535	847	.	11	.	353	216	430	351	48	.	11	.	12
SERIPHUS POLITUS		.	.	.	.	75	191	315	37	235	79	157	29	635	637	953	67
GENYONEMUS LINEATUS		42	32	11	44	9	138	11	.	.	9	55	.	88	123	181	22
HYPSOBLENNIUS SPP.		.	.	.	.	.	32	.	.	9	29	.	.	55	41	84	.
TYPHLOGOBBIUS CALIFORNIENSIS		.	11	.	.	.	.	.	.	.	.	.	.	.	.	.	.
PEPRILUS SIMILLIMUS		.	.	.	9	9	11	.	.	.	9	18	.	186	206	326	.
COTTIDAE, TYPE B		.	11	.	.	9	.	.	.	.	.	.	.	.	.	.	.
PARALICHTHYS/XYSTREURYS LICLEPIS		.	11	.	.	.	.	.	.	.	9	.	.	33	.	.	.
HYPSOPSETTA GUTTULATA		.	.	.	.	.	.	11	.	.	.	.	.	.	.	.	.
PISCES, LARVAE, UNID.		42	32	22	203	37	96	.	.	647	9	46	10	55	483	1532	.
PISCES YOLK SAC LARVAE		10	.	.	35	345	510	43	.	39	.	.	.	514	257	1592	11
NUMBER OF INDIVIDUALS		2939	3676	2708	4789	3057	5735	1761	780	2941	993	4141	306	6172	6505	11797	623
NUMBER OF SPECIES		6	8	5	7	6	9	6	8	8	7	9	4	9	7	8	8
BONGO NET NUMBER OF INDIVIDUALS/1000M <sup>3</sup>																	
SPECIES NAME	REPLICATE:	STATION T-1				STATION T-2				STATION C-1				STATION C-2			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
ENGRAULIS MORDAX		9842	2075	3356	1387	6992	9291	8436	6296	13913	29299	64192	29081	21762	35644	48775	32081
BATHYLAGUS OCHOTENSIS		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
STENOBRACHIUS LEUCOPSARUS		4	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
ATHERINIDAE, UNID.		.	55	94	71	.	.	.	.	.	.	.	.	20	.	.	.
CARANGIDAE, UNID.		4	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
SERIPHUS POLITUS		262	11	40	.	134	351	342	212	460	272	1341	326	344	495	926	898
GENYONEMUS LINEATUS		307	22	67	95	240	252	263	237	51	314	383	244	547	539	1154	823
SCIAENIDAE TYPE C		.	.	.	.	.	.	.	.	26	.	.	.	.	.	28	.
HETEROSTICHUS ROSTRATUS		.	5	.	6	.	.	.	.	.	.	.	.	.	.	.	.
CLINIDAE TYPE C		.	.	.	.	.	.	.	.	.	.	48	.	.	.	.	.
HYPSOBLENNIUS SPP.		.	38	13	36	.	38	.	.	51	17	48	.	30	.	.	15
GOBIIDAE, UNID.		.	.	.	.	.	.	.	.	.	.	.	7	.	.	.	.
TYPHLOGOBBIUS CALIFORNIENSIS		.	16	.	24	.	.	.	.	.	.	.	.	10	.	.	.
GOBIIDAE, TYPE A		4	11	.	.	.	.	.	.	.	.	24	.	.	.	.	.
LEPIDOGOBBIUS LEPIDUS		.	.	13	6	.	.	.	.	.	.	.	.	.	.	.	.
PEPRILUS SIMILLIMUS		54	16	27	36	20	8	13	.	.	74	96	30	152	176	271	180
SEBABTES, TYPE 3		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
SEBABTES, TYPE 4		4	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
SEBABTES, TYPE 5		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
SEBABTES, TYPE 11		.	.	.	.	.	.	.	.	.	.	24	15	20	.	.	15
SEBABTES, TYPE 12		.	.	.	.	.	.	.	.	.	.	.	.	.	11	.	30
PARALICHTHYS/XYSTREURYS LICLEPIS		2	.	.	.	13	61	13	.	.	41	48	15	101	154	228	135
PLEURONICHTHYS RITTERI		.	.	.	.	.	15	13	.	.	.	.	.	.	.	.	28
PLEURONICHTHYS VENTICALIS		4	.	.	.	.	.	.	.	.	.	.	.	.	.	.	28
HYPSOPSETTA GUTTULATA		.	.	.	.	.	.	.	.	.	.	.	15	.	.	.	15
PISCES, LARVAE, UNID.		87	71	54	.	33	30	66	50	77	231	503	119	314	154	271	225
PISCES YOLK SAC LARVAE		145	27	81	30	27	114	92	137	128	545	1030	289	304	583	1325	509
NUMBER OF INDIVIDUALS		10779	2347	3745	1691	7459	10160	9238	6932	14706	30801	67737	30141	23604	37778	53030	34956
NUMBER OF SPECIES		12	11	9	9	7	9	8	5	7	9	11	10	11	10	10	12
AURIGA NET NUMBER OF INDIVIDUALS/1000M <sup>3</sup>																	
SPECIES NAME	REPLICATE:	STATION T-1				STATION T-2				STATION C-1				STATION C-2			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
ENGRAULIS MORDAX		4990	2266	6377	6864	3179	1981	5764	1435	1775	1773	.	2742	6283	6104	5605	8184
STENOBRACHIUS LEUCOPSARUS		.	.	.	.	.	.	.	.	.	.	.	24	.	.	.	.
GOBIESOX RHESBODON		.	.	23	.	97	49	73	258	.	.	.	24	.	.	.	.
GOBIESOCIDAE TYPE A		.	.	.	.	.	.	24	.	.	.	.	24	.	.	.	.
ATHERINIDAE, UNID.		193	50	116	24	24	.	.	29	.	.	.	.	.	.	.	.
SERIPHUS POLITUS		.	.	.	.	24	.	48	.	.	.	.	.	.	.	.	.
MENTICIRRHUS UNULATUS		.	.	.	.	.	.	.	.	.	.	.	.	.	.	23	.
GENYONEMUS LINEATUS		3237	1469	4724	8928	10848	2323	12811	13859	345	.	2132	.	.	.	.	.
PARACLINUS INTEGRIPINNIS		.	.	.	.	.	.	24	.	.	345	904	461	3933	2855	2533	2448
HETEROSTICHUS ROSTRATUS		.	.	.	24	.	.	24	.	.	.	23	49	.	.	.	.
CLINIDAE TYPE A		.	.	.	.	.	24	.	143	.	.	.	.	.	.	.	.
HYPSOBLENNIUS SPP.		.	25	.	.	.	.	.	.	.	.	.	.	.	.	.	.
GOBIIDAE, UNID.		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
GOBIIDAE, TYPE A		135	100	279	552	534	73	218	115	74	49	162	73	25	23	.	24
LEPIDOGOBBIUS LEPIDUS		.	.	116	24	24	.	.	.	.	.	23	.	.	.	.	.
GOBIIDAE, TYPE G		.	.	23	.	.	.	.	.	.	.	.	.	.	.	.	.
GILLICHTHYS MIRABILIS		.	.	.	24	.	.	.	.	.	.	.	.	.	.	.	.
COTTIDAE, TYPE B		.	.	.	.	.	.	.	.	.	.	.	24	.	23	.	.
COTTIDAE, TYPE G		.	.	.	.	.	.	.	.	.	.	.	49	.	.	.	.
PARALICHTHYS/XYSTREURYS LICLEPIS		.	.	.	.	.	.	.	.	.	.	.	.	.	23	.	.
PISCES, LARVAE, UNID.		.	75	209	144	898	538	1235	.	173	123	93	146	297	116	47	.
PISCES YOLK SAC LARVAE		.	.	.	.	.	.	.	.	.	.	49	.	46	.	.	.
NUMBER OF INDIVIDUALS		8555	3985	11867	16560	15652	4988	20245	15839	2367	2290	3337	3641	10563	9190	8208	10656
NUMBER OF SPECIES		4	6	8	7	9	6	10	6	4	4	6	10	5	7	4	3

Table VI-15. Number of individuals collected by Marine Ecological Consultants, during SONGS in-plant sampling, 27-28 March 1978.

## MEC IN-PLANT SAMPLE NUMBER OF INDIVIDUALS/1000M\*\*3

SPECIES NAME	REPLICATE:											
	1	2	3	4	5	6	7	8	9	10	11	12
ENGRAULIS MORDAX	-	-	-	-	-	-	-	-	-	-	-	83
GENYONEMUS LINEATUS	-	83	-	-	83	-	83	-	83	83	167	83
PISCES, LARVAE, UNID.	-	250	83	-	83	-	83	-	417	333	833	-
NUMBER OF INDIVIDUALS	0.	333.	83.	0.	166.	0.	166.	0.	500.	416.	1000.	166.
NUMBER OF SPECIES	0.	2.	1.	0.	2.	0.	2.	0.	2.	2.	2.	2.

SPECIES NAME	REPLICATE:											
	13	14	15	16	17	18	19	20	21	22	23	24
ENGRAULIS MORDAX	-	-	-	-	-	-	167	83	-	-	-	-
GENYONEMUS LINEATUS	106	83	167	83	250	167	333	583	417	250	-	-
PISCES, LARVAE, UNID.	266	583	83	333	250	500	1000	500	167	167	-	-
NUMBER OF INDIVIDUALS	372.	666.	250.	416.	500.	667.	1500.	1166.	584.	417.	0.	0.
NUMBER OF SPECIES	2.	2.	2.	2.	2.	2.	3.	3.	2.	2.	0.	0.



Table VI-16. Fish egg concentrations for SONGS ichthyoplankton sampling program 27-28 April 1978.

NUMBER OF EGGS/1000 M\*\*3

STATION: NET TYPE	REPLICATE	T-1		T-2		C-1		C-2	
		ANCHOVY	TOTAL	ANCHOVY	TOTAL	ANCHOVY	TOTAL	ANCHOVY	TOTAL
MANTA	1	9	2880	455	13278	661	4557	627	5371
	2	10	3255	312	14076	1208	3878	911	4873
	3	30	2567	19	14586	1296	3693	1083	4679
	4	0	2854	18	22784	1240	4101	1228	3703
BONGO	1	112	11788	315	7555	1458	6211	1121	6285
	2	250	25121	2015	23666	1728	4357	772	5447
	3	172	10156	1195	19861	2646	5838	787	5593
	4	201	16487	522	13894	1218	4312	1412	4275
AURIGA	1	171	1731	966	6507	453	3998	711	10474
	2	254	1767	417	4520	830	5174	958	15454
	3	282	1878	355	3513	446	4712	888	12993
	4	498	5158	281	3534	408	3067	990	14186

TIME OF DAY: INTAKE-PUMP REPLICATE	MORNING		AFTERNOON		SUNSET	
	ANCHOVY	TOTAL	ANCHOVY	TOTAL	ANCHOVY	TOTAL
1	0	2682	0	1238	0	748
2	77	3169	0	1792	161	807
3	154	6409	0	1561	77	1232
4	155	1550	0	155	232	1623

TIME OF DAY: INTAKE-PUMP REPLICATE	BEFORE MIDNIGHT		AFTER MIDNIGHT		SUNRISE	
	ANCHOVY	TOTAL	ANCHOVY	TOTAL	ANCHOVY	TOTAL
1	0	2125	77	4769	0	3669
2	254	2542	77	7175	0	3207
3	78	2328	155	7308	0	2761
4	74	7152	152	8813	0	1936

Table VI-17. Number of individuals collected in SONGS offshore tows, 27-28 April 1978.

MANTA NET NUMBER OF INDIVIDUALS/1000M\*\*3

SPECIES NAME	REPLICATE:	STATION T-1				STATION T-2				STATION C-1				STATION C-2			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
ENGRAULIS MORDAX	93	296	763	78	650	321	742	784	213	541	904	466	575	566	284	629	
STENOBRACHIUS LEUCOPSARUS									12		11						
ATHERINIDAE, UNID.	2032	657	428	1017	4336	2186	3235	5225	2078	1369	1340	2106	1735	2779	1532	2006	
LEURESTHES TENUIS	242	71	20	72	344	768	171	335	59		44	37	63	94			
ATHERINOPSIS CALIFORNIENSIS		10					105	185									
ATHERINIDAE, TYPE C	410	214	268	1515	279	127	324	414	83			9	157	113	37		
SYNGNATHUS SP.																	
SERIPHUS POLITUS	19	10	40		9	17	10	62	24	12	22	9		9			
GENYONEMUS LINEATUS	19	10	20	10		8	19	26	35				42		18		
SCIAENIDAE TYPE C									9								
OXIJULIS CALIFORNICA													11				
MYSOBLENNIUS SPP.	19	10	20	10	9	42	19	26	12	58	22	65	31	38		20	
CORYPHOPTERUS NICHOLSII												9					
TYPHLOGOBIOUS CALIFORNIENSIS							8			12		11	9				
LEPIDOGOBIOUS LEPIDUS				10													
PEPRILUS SIMILLIMUS							8										
SEBASTES, TYPE 3														10			
GUTTIDAE, TYPE G														10			
CITHARICHTHYS SPP.																	
PARALICHTHYS/XYSTREURYS LICLEPIS					9				12			9	31		9		
PLEURONICHTHYS VERTICALIS			10														
HYPSOPSETTA GUTTULATA	28		10						9								
PISCES, LARVAE, UNID.		20	40	10	65	8	19	26		12	22	19	21	94	28	40	
PISCES YOLK SAC LARVAE	9		69					26				53				10	
NUMBER OF INDIVIDUALS		2871,	1498,	1686,	2728,	5701,	3493,	4644,	7127,	2540,	2016,	2442,	2738,	2675,	3502,	1935,	2715,
NUMBER OF SPECIES		9,	9,	11,	8,	8,	10,	9,	12,	10,	7,	11,	10,	10,	8,	8,	6,

BUNGO NET NUMBER OF INDIVIDUALS/1000M\*\*3

SPECIES NAME	REPLICATE:	STATION T-1				STATION T-2				STATION C-1				STATION C-2			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
ENGRAULIS MORDAX	1944	1858	1266	2763	2808	6302	10645	5339	1077	1511	2214	1958	1585	1676	1810	3089	
STENOBRACHIUS LEUCOPSARUS									13							11	
LAMPANYCTUS HITTERI											14						
GOBIESOCIDAE, UNID.			16														
GOBIESOX RHESODOON	11			55													
ATHERINIDAE, UNID.	413	47	51	18	47	107	128	16	26	15	14		24	11			
TRACHURUS SYMMETRICUS																	
SERIPHUS POLITUS	302	125	453	1134	16	107	107	131	131	44	29	27	36	55	22	38	
GENYONEMUS LINEATUS	994	1140	313	1025	1435	2144	2389	1616	158	15	29	41	620	1003	442	791	
SCIAENIDAE TYPE C	11		16	37		21											
TRACTUSCUS NURILIS									13								
SPHYRAENA ARGENTEA									15								
CLINIDAE TYPE A		16		18													
MYSOBLENNIUS SPP.	145	16	16	18	16	86		16	13	15	14	55	36	22	75		
TYPHLOGOBIOUS CALIFORNIENSIS						47							12				
GOBIIDAE, TYPE A	11	31		18			49								11		
LEPIDOGOBIOUS LEPIDUS							21						12				
GOBIIDAE, TYPE G			31														
GOBIIDAE, TYPE H							21										
PEPRILUS SIMILLIMUS		16							13		14	14			11		
CITHARICHTHYS SPP.											14	14					
PARALICHTHYS/XYSTREURYS LICLEPIS				18	32	21		16	13	58	29		36	55	32	19	
PLEURONICHTHYS VERTICALIS											14		12				
HYPSOPSETTA GUTTULATA	11	16		18			21						12				
PISCES, LARVAE, UNID.	45	94	63	55	32	86	171	16	53	44			12	11		56	
PISCES YOLK SAC LARVAE				73				33		15	29	55		44		56	
NUMBER OF INDIVIDUALS		3887,	3359,	2205,	5250,	4433,	8874,	13503,	7232,	1523,	1717,	2414,	2191,	2195,	2877,	2414,	4049,
NUMBER OF SPECIES		10,	10,	9,	15,	8,	8,	8,	9,	11,	8,	11,	8,	11,	8,	8,	6,

AURIGA NET NUMBER OF INDIVIDUALS/1000M\*\*3

SPECIES NAME	REPLICATE:	STATION T-1				STATION T-2				STATION C-1				STATION C-2			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
ENGRAULIS MORDAX	1328	2960	2864	5368	2409	3404	2933	2597	589	513	1062	926	1742	3115	1616	3093	
TRIPHTIURUS MEXICANUS																	
STENOBRACHIUS LEUCOPSARUS	10														21		
GOBIESOCIDAE, UNID.		9		10													
GOBIESOX RHESODOON	10	47		86	14	29	21				34		20				10
GOBIESOCIDAE TYPE A	10																
ATHERINIDAE, UNID.			9						27			50	20		20	11	
LEURESTHES TENUIS		9								11							
SERIPHUS POLITUS	624	1720	2366	3541		10	11			340	109	218	1245	10	50	43	10
GENYONEMUS LINEATUS	523	2903	1239	2134	626	1397	1150	790	227	589	557	1424	62	595	407	412	
HETEROSTICHUS RUSTRATUS				19	68	19			13								
CLINIDAE TYPE C														10			
MYSOBLENNIUS SPP.									13			10	10	10		11	10
TYPHLOGOBIOUS CALIFORNIENSIS	10											10	40	82	20		10
GOBIIDAE, TYPE A	10		9	77							22	30					
LEPIDOGOBIOUS LEPIDUS	20	132	47	96	27					11	11	10	30		20	11	41
GOBIIDAE, TYPE D																	
GOBIIDAE, TYPE H															10		
OXYLEBIUS PICTUS															10		
CITHARICHTHYS STIGMAEUS								13									
PARALICHTHYS CALIFORNICUS						10								10			
CITHARICHTHYS SPP.																	10
PARALICHTHYS/XYSTREURYS LICLEPIS												10		10			
PLEURONICHTHYS VERTICALIS							10										
HYPSOPSETTA GUTTULATA	20		9														
PISCES, LARVAE, UNID.	30	38	9	19		48	54	241	57	11	20	30	21	91	54	21	
NUMBER OF INDIVIDUALS		2595,	7818,	6552,	11350,	3144,	4937,	4169,	3694,	1269,	1255,	1797,	3735,	1947,	3971,	2174,	3617,
NUMBER OF SPECIES		11,	8,	8,	9,	5,	9,	5,	7,	7,	8,	11,	9,	8,	11,	8,	9,

Table VI-18. Number of individuals collected in SONGS intake samples, 27-28 April 1978.

INTAKE SAMPLE NUMBER OF INDIVIDUALS/1000M**3													
SPECIES NAME	REPLICATE:	1	2	3	4	5	6	7	8	9	10	11	12
ENGRAULIS MORDAX		2835	3787	3012	1705	1061	623	411	698	673	484	847	1546
GOBIESOX RHESSODON		153					78			150			
GOBIESOCIDAE TYPE A													
ATHERINIDAE, UNID.													
SERIPHUS POLITUS		77	232	309		177	78	411	78	75	81	231	77
GENYONEMUS LINEATUS		1379	1700	772	78	530		246	466	1346	1211	1771	2242
SCIAENIDAE TYPE C				77				82					
HETEROSTICHUS ROSTRATUS								82					
CLINIDAE TYPE A						88							
HYPHOBLENNIUS SPP.							156	329	78		81		
TYPHLOGOBIUS CALIFORNIENSIS				77									
Gobiidae, Type A								82					
LEPIDOGOBIUS LEPIDUS													
Gobiidae, Type G													
MYPSOPSETTA GUTTULATA													
PISCES, LARVAE, UNID.		77	618	232	233	88	78	329	78	224	565	308	232
PISCES YOLK SAC LARVAE								82					
NUMBER OF INDIVIDUALS		4521.	6337.	4479.	2016.	1944.	1013.	2054.	1398.	2468.	2422.	3157.	4097.
NUMBER OF SPECIES		5.	4.	6.	3.	5.	5.	9.	5.	5.	5.	4.	4.
SPECIES NAME	REPLICATE:	13	14	15	16	17	18	19	20	21	22	23	24
ENGRAULIS MORDAX		1848	2034	1552	3465	923	1620	2410	2507	1196	1973	731	852
GOBIESOX RHESSODON				155									
GOBIESOCIDAE TYPE A		277											
ATHERINIDAE, UNID.		185	85		74		77	78	76				
SERIPHUS POLITUS		92		78	295	77	386	78	152	319	329		
GENYONEMUS LINEATUS		1940	1864	2483	74	1692	2777	2410	4482	638	576		
SCIAENIDAE TYPE C								78					
HETEROSTICHUS ROSTRATUS													
CLINIDAE TYPE A				78							82		
HYPHOBLENNIUS SPP.													
TYPHLOGOBIUS CALIFORNIENSIS													
Gobiidae, Type A			85	78	74					80			
LEPIDOGOBIUS LEPIDUS				78									
Gobiidae, Type G									76				
MYPSOPSETTA GUTTULATA						77							
PISCES, LARVAE, UNID.		277	678		147	231	463	155	456	80	82	81	155
PISCES YOLK SAC LARVAE													
NUMBER OF INDIVIDUALS		4619.	4746.	4502.	4129.	3000.	5323.	5209.	7749.	2313.	3042.	812.	1007.
NUMBER OF SPECIES		6.	5.	7.	6.	5.	5.	6.	6.	5.	5.	2.	2.

Table VI-19. Fish egg concentrations for SONGS ichthyoplankton sampling program 29-30 May 1978.

		NUMBER OF EGGS/1000 M**3							
STATION: NET TYPE	REPLICATE	T-1		T-2		C-1		C-2	
		ANCHOVY	TOTAL	ANCHOVY	TOTAL	ANCHOVY	TOTAL	ANCHOVY	TOTAL
MANTA	1	156	9140	122	7958	60	6786	18	7432
	2	155	6924	225	11011	58	13772	9	8658
	3	166	6357	132	15845	115	13321	25	7475
	4	167	7174	34	11736	16	8033	25	6689
RCNGO	1	253	4242	719	3422	162	1028	374	2219
	2	343	2437	1275	7238	166	1396	327	1606
	3	508	2347	1081	4496	92	1633	317	2028
	4	420	2664	959	4991	110	1919	293	2664
AURIGA	1	97	631	218	1164	48	695	104	687
	2	208	781	152	1088	24	518	79	570
	3	190	1122	220	912	63	546	170	491
	4	153	832	50	1128	129	665	99	532

TIME OF DAY: INTAKE-PUMP REPLICATE	MORNING		AFTERNOON		SUNSET	
	ANCHOVY	TOTAL	ANCHOVY	TOTAL	ANCHOVY	TOTAL
1	0	1396	386	3046	233	2350
2	20	1900	311	2703	224	1466
3	40	1655	241	1908	172	1778
4	18	1835	172	2510	229	2560

TIME OF DAY: INTAKE-PUMP REPLICATE	BEFORE MIDNIGHT		AFTER MIDNIGHT		SUNRISE	
	ANCHOVY	TOTAL	ANCHOVY	TOTAL	ANCHOVY	TOTAL
1	404	2626	553	2688	117	1271
2	288	2152	517	2109	182	1599
3	362	2435	364	2364	136	1028
4	423	2907	390	1747	77	2006

Table VI-20. Number of individuals collected in SONGS offshore tows,  
29-30 May 1978.

PANTA NET NUMBER OF INDIVIDUALS/1000M\*\*3

SPECIES NAME	STATION T-1				STATION T-2				STATION C-1				STATION C-2				
	REPLICATE:	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
ENGRAULIS MURDAX		78	120	44	132	187	104	115	42	34	67	10	65	328	219	127	84
CELLOLABIS SAIRA		-	-	-	-	16	16	-	-	-	-	-	-	-	-	-	-
ATHERINIDAE, UNID.		547	497	665	246	773	762	571	821	102	75	162	98	264	263	346	101
LEURESTHES TENUIS		401	533	447	317	146	24	49	68	179	291	153	171	55	96	118	34
ATHERINIDAE, TYPE C		283	103	131	178	366	24	264	-	43	108	124	49	46	-	-	34
SEMIPHUS PULITUS		-	9	-	9	-	-	-	-	-	-	-	-	-	-	-	-
HYPSPYGPS RUBICUNDA		-	-	-	-	-	-	-	-	68	17	48	41	55	167	414	371
PARACLINUS INTEGRIPINNIS		-	-	-	-	-	-	-	-	-	8	-	-	-	-	-	-
HYPHOBLENNIUS SPP.		108	206	149	123	57	40	8	59	77	17	29	8	401	289	68	67
TYPHLOGOBBIUS CALIFURNIENSIS		-	9	-	-	-	-	-	-	9	-	-	-	-	-	-	-
LEPIDOGOBBIUS LEPIDUS		-	-	-	-	-	-	-	-	-	-	-	-	9	-	-	-
LYTHRYPHUS SP.		-	-	-	-	8	-	-	-	-	-	-	-	-	-	-	-
SCOMBER JAPONICUS		-	-	-	8	8	-	-	-	-	-	-	-	19	8	9	-
PISCES, LARVAE, UNID.		-	26	-	9	8	-	-	-	-	-	-	-	-	-	-	25
PISCES YULK SAC LARVAE		-	-	9	-	-	-	8	-	-	-	-	-	-	-	-	-
NUMBER OF INDIVIDUALS		1417.	2003.	1445.	1012.	1561.	978.	815.	940.	512.	565.	545.	440.	1167.	1034.	1098.	691.
NUMBER OF SPECIES		5.	8.	6.	7.	8.	7.	6.	4.	7.	7.	7.	7.	8.	5.	6.	6.

BUAGO NET NUMBER OF INDIVIDUALS/1000M\*\*3

SPECIES NAME	STATION T-1				STATION T-2				STATION C-1				STATION C-2				
	REPLICATE:	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
ENGRAULIS MURDAX		513	332	690	735	182	461	176	351	318	318	228	211	693	894	983	1083
STENODRACHMUS LEUCOPSARUS		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GGBIESUX RHESUDOON		-	5	-	-	-	-	-	-	5	5	5	9	-	-	-	-
ATHERINIDAE, UNID.		7	5	-	12	-	-	6	12	-	-	-	-	-	-	-	-
ATHERINIDAE, TYPE C		-	-	-	-	-	-	-	-	15	32	43	4	5	11	5	10
SEMIPHUS PULITUS		-	11	6	-	6	-	-	-	-	-	-	-	-	-	-	-
GENYONEMUS LINEATUS		-	-	-	-	6	12	23	-	15	46	65	9	-	-	140	129
HYPSPYGPS RUBICUNDA		-	-	-	-	-	-	-	-	5	5	5	4	-	-	-	-
PARACLINUS INTEGRIPINNIS		-	-	-	-	-	-	-	-	28	-	-	-	-	-	-	-
CLINIDAE TYPE A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CLINIDAE TYPE B		-	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HYPHOBLENNIUS SPP.		190	54	97	94	22	12	6	29	10	18	-	48	10	69	10	30
GGBIIDAE, UNID.		-	-	-	6	-	-	-	-	5	5	-	-	4	5	-	-
TYPHLOGOBBIUS CALIFURNIENSIS		-	-	-	-	-	-	-	-	5	-	-	-	-	-	-	-
GGBIIDAE, TYPE A		-	-	-	-	-	-	-	-	5	9	-	-	-	-	-	-
LEPIDOGOBBIUS LEPIDUS		-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	5
SEBASTES TYPE 1S		-	-	-	-	6	-	-	-	-	-	-	-	-	-	-	-
CLITIIDAE, TYPE B		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PISCES, LARVAE, UNID.		21	-	-	12	22	-	12	-	-	-	5	4	5	17	5	15
NUMBER OF INDIVIDUALS		731.	412.	793.	864.	238.	479.	220.	415.	385.	466.	351.	293.	718.	1003.	1155.	1267.
NUMBER OF SPECIES		4.	6.	3.	5.	5.	3.	6.	4.	9.	9.	6.	8.	5.	6.	7.	5.

ALMIGA NET NUMBER OF INDIVIDUALS/1000M\*\*3

SPECIES NAME	STATION T-1				STATION T-2				STATION C-1				STATION C-2				
	REPLICATE:	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
ENGRAULIS MURDAX		316	599	741	241	73	44	283	551	1126	965	1576	1738	1229	2773	2514	1951
GGBIESUX RHESUDOON		24	104	2032	2779	-	-	-	-	24	24	126	43	-	-	-	20
ATHERINIDAE, UNID.		-	-	-	-	-	-	-	-	24	-	-	-	-	-	-	-
LEURESTHES TENUIS		-	26	-	-	-	-	-	-	-	24	-	-	-	-	-	-
SCIAENIDAE, UNID.		-	26	-	-	-	-	-	-	-	24	-	-	-	-	-	-
SEMIPHUS PULITUS		631	339	783	832	-	-	-	-	790	706	924	451	-	-	-	-
GENYONEMUS LINEATUS		3131	2604	2603	1357	-	-	-	-	25	934	1412	1324	1094	208	236	151
METEOSIICHUS ROSTRATUS		-	-	-	-	-	-	-	-	-	-	21	-	-	-	-	-
CLINIDAE TYPE A		-	26	-	-	-	-	-	-	-	-	21	21	-	-	-	-
CLINIDAE TYPE B		-	-	-	-	-	-	-	-	-	24	-	-	-	-	-	-
HYPHOBLENNIUS SPP.		-	-	-	44	-	-	-	-	25	24	-	42	21	-	-	-
GGBIIDAE, UNID.		-	-	-	-	-	-	-	-	48	-	-	-	-	-	-	-
TYPHLOGOBBIUS CALIFURNIENSIS		-	-	-	-	-	-	-	-	72	-	21	-	-	-	-	-
GGBIIDAE, TYPE A		-	-	-	-	-	-	-	-	24	-	65	-	-	-	-	-
LEPIDOGOBBIUS LEPIDUS		-	-	85	22	-	-	-	-	-	235	147	193	-	-	-	-
OXYLEHIUS PICTUS		-	-	-	-	-	44	-	-	-	-	-	-	-	-	-	-
ICHTHYS LOCKINGIUNI		-	-	-	-	-	-	-	-	-	-	-	-	-	20	-	-
LITHARICHTHYS STIGMAEUS		-	-	-	-	-	-	31	25	-	-	-	-	-	-	-	-
PISCES, LARVAE, UNID.		73	26	85	-	-	-	-	-	48	-	64	43	-	-	-	57
NUMBER OF INDIVIDUALS		4175.	3750.	6329.	5275.	73.	88.	514.	626.	3114.	3390.	4349.	3604.	1437.	3029.	2722.	2267.
NUMBER OF SPECIES		5.	8.	6.	6.	1.	2.	2.	4.	10.	7.	11.	8.	2.	3.	3.	3.

Table VI-21. Number of individuals collected in SONGS intake samples, 29-30 May 1978.

INTAKE SAMPLE NUMBER OF INDIVIDUALS/1000M**3													
SPECIES NAME	REPLICATE:	1	2	3	4	5	6	7	8	9	10	11	12
ENGRAULIS MORDAX		531	764	658	330	203	237	141	441	155	224	1281	1796
GOBIESOX RHESSODON		-	20	-	-	20	-	-	19	19	-	38	57
SERIPHUS POLITUS		-	-	-	-	-	-	-	57	-	-	19	-
GENYONEMUS LINEATUS		39	-	-	-	-	18	20	-	19	172	746	191
METEROSTICHUS ROSTRATUS		-	39	20	37	61	18	40	153	-	-	-	19
CLINIDAE TYPE A		20	-	-	-	-	-	-	-	-	-	-	-
MYPSOBLENNIUS SPP.		39	-	20	37	-	-	-	-	19	-	-	96
TYPHLOGOBIUS CALIFORNIENSIS		-	-	20	-	-	-	-	-	-	-	-	-
GOBIIDAE, TYPE A		-	-	-	-	-	-	-	-	39	-	-	19
LEPIDOGOBIUS LEPIDUS		-	20	-	-	20	-	-	-	-	-	38	57
GOBIIDAE, TYPE D		-	-	-	-	-	-	-	-	-	-	19	-
GOBIIDAE, TYPE G		-	-	-	-	-	-	-	-	-	-	-	19
PISCES, LARVAE, UNID.		98	-	-	-	20	18	-	-	19	224	-	96
PISCES YOLK SAC LARVAE		-	-	-	-	-	-	-	-	-	-	-	-
NUMBER OF INDIVIDUALS		727.	843.	718.	404.	524.	291.	201.	670.	270.	620.	2141.	2350.
NUMBER OF SPECIES		5.	4.	4.	3.	5.	4.	3.	4.	6.	3.	6.	9.
SPECIES NAME	REPLICATE:	13	14	15	16	17	18	19	20	21	22	23	24
ENGRAULIS MORDAX		1071	692	463	166	237	398	384	204	528	547	543	482
GOBIESOX RHESSODON		40	19	20	-	-	-	-	-	-	20	-	-
SERIPHUS POLITUS		20	19	-	18	20	20	-	-	20	-	-	-
GENYONEMUS LINEATUS		101	211	60	37	296	577	202	93	274	101	19	-
METEROSTICHUS ROSTRATUS		-	-	-	-	-	-	-	-	-	-	-	-
CLINIDAE TYPE A		-	-	-	-	-	-	-	-	-	-	19	-
MYPSOBLENNIUS SPP.		20	19	-	-	-	-	20	19	-	-	19	-
TYPHLOGOBIUS CALIFORNIENSIS		-	-	20	-	-	-	-	-	-	-	-	-
GOBIIDAE, TYPE A		-	-	-	-	-	20	-	-	-	-	-	19
LEPIDOGOBIUS LEPIDUS		20	19	40	18	-	20	-	-	-	-	-	-
GOBIIDAE, TYPE D		-	-	-	-	-	-	-	-	-	-	-	-
GOBIIDAE, TYPE G		-	-	-	-	-	-	-	-	-	-	-	-
PISCES, LARVAE, UNID.		20	19	-	-	40	80	141	112	98	202	39	193
PISCES YOLK SAC LARVAE		-	-	-	-	-	-	-	-	-	-	-	19
NUMBER OF INDIVIDUALS		1292.	998.	603.	239.	593.	1115.	747.	428.	920.	870.	639.	713.
NUMBER OF SPECIES		7.	7.	5.	4.	4.	6.	4.	4.	4.	4.	5.	4.

Table VI-22. Fish egg concentrations for SONGS ichthyoplankton sampling program 27-28 June 1978.

## NUMBER OF EGGS/1000 M\*\*3

STATION: NET TYPE	REPLICATE	T-1		T-2		C-1		C-2	
		ANCHOVY	TOTAL	ANCHOVY	TOTAL	ANCHOVY	TOTAL	ANCHOVY	TOTAL
MANTA	1	0	9191	0	13358	33	9138	148	37296
	2	0	9379	0	7000	88	9172	117	14524
	3	17	18527	20	7739	0	9761	151	30672
	4	0	19345	0	12192	0	9469	48	24920
BONGO	1	12	8666	13	7245	74	4795	53	14625
	2	13	10254	0	6714	51	5145	25	10403
	3	0	6449	13	5674	45	3606	96	15173
	4	0	5206	0	4888	33	5144	22	8862
AURIGA	1	8	5946	67	3109	8	1473	70	6784
	2	34	2067	84	2487	9	1510	26	4982
	3	17	5192	102	9389	10	5447	9	2602
	4	32	4447	107	3087	33	1650	17	1950

TIME OF DAY: INTAKE-PUMP REPLICATE	MORNING		AFTERNOON		SUNSET	
	ANCHOVY	TOTAL	ANCHOVY	TOTAL	ANCHOVY	TOTAL
1	9	1976	7	479	0	121789
2	21	2150	10	783	10	11910
3	11	2137	30	1072	0	8208
4	22	2050	30	980	11	14844

TIME OF DAY: INTAKE-PUMP REPLICATE	BEFORE MIDNIGHT		AFTER MIDNIGHT		SUNRISE	
	ANCHOVY	TOTAL	ANCHOVY	TOTAL	ANCHOVY	TOTAL
1	10	9764	33	29880	44	9594
2	0	8108	10	23933	22	7406
3	31	5306	0	16895	10	6764
4	10	15450	21	13302	0	10708

Table VI-23. Number of individuals collected in SONGS offshore tows, 27-28 June 1978.

MANTA NET NUMBER OF INDIVIDUALS/1000M**3																
SPECIES NAME	STATION T-1				STATION T-2				STATION C-1				STATION C-2			
	REPLICATE:	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3
ENGRAULIS MORDAX	144	259	17	37	206	130	41	-	201	234	175	152	16	39	84	48
GOBIESOX RHESODON	-	19	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CYPSSELUNUS SP. A	-	19	-	-	-	-	-	-	-	15	-	-	-	-	-	-
CCLULABIS SAIHA	-	19	-	-	19	-	-	-	-	-	-	-	-	-	-	-
ATHERININAE, UNID.	989	334	218	262	244	241	183	232	385	293	159	219	33	19	-	112
LEURESTHES TENUIS	701	575	519	581	244	463	244	199	218	293	191	152	-	-	-	16
ATHERINOPSIS CALIFORNIENSIS	18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SERIPHUS POLITUS	-	-	-	-	-	-	-	-	-	-	-	-	16	-	-	-
HYPSPYOPS RUBICUNDA	-	-	-	-	-	-	-	-	50	15	52	-	-	19	-	32
HYPSOBLENNIUS SPP.	230	222	50	56	150	204	428	83	218	59	-	17	709	1029	487	128
TYPHLOGOBIVS CALIFORNIENSIS	-	-	33	75	-	-	-	-	-	-	-	-	-	-	-	17
LYTHRYPHUS SP.	-	-	-	-	-	-	-	-	-	15	-	-	-	-	-	-
COTTIDAE, TYPE J	72	19	234	524	-	19	-	199	-	-	-	16	-	-	-	-
PARALICHTHYS XYSTREUMYS LICLLEPSIS	-	-	-	-	-	-	-	-	-	-	-	-	16	-	-	-
PLEURONICHTHYS VERTICALIS	-	-	-	-	-	-	-	-	-	-	-	16	-	-	-	-
PLEURONICHTHYS SP.	-	-	17	-	-	-	-	-	-	-	-	-	-	-	-	-
PISCES, LARVAE, UNID.	252	19	-	-	-	19	-	33	17	15	16	-	16	-	-	-
PISCES YOLK SAC LARVAE	-	-	-	15	-	-	20	-	-	-	-	-	-	19	-	-
NUMBER OF INDIVIDUALS	2410	1485	1088	1554	863	1076	916	746	1089	939	605	540	806	1125	588	336
NUMBER OF SPECIES	7	9	7	7	5	6	5	5	6	8	7	4	6	5	3	5

BUNGO NET NUMBER OF INDIVIDUALS/1000M**3																
SPECIES NAME	STATION T-1				STATION T-2				STATION C-1				STATION C-2			
	REPLICATE:	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3
ENGRAULIS MORDAX	218	240	252	195	204	220	376	241	315	427	335	260	245	415	132	132
STENOBRACHIUS LEUCOPSARUS	-	-	-	-	-	-	-	-	-	-	-	-	-	11	-	-
MYCTOPHIDAE, UNID.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GOBIESOX RHESODON	-	67	22	41	115	13	-	11	-	-	-	-	-	-	-	-
ATHERININAE, UNID.	12	-	-	-	13	-	-	-	-	-	-	-	-	-	-	-
SERIPHUS POLITUS	-	-	-	-	13	-	-	-	-	20	-	-	-	-	-	-
GENYONEMUS LINEATUS	-	-	-	-	-	-	-	-	-	-	-	-	-	13	-	-
HYPSPYOPS RUBICUNDA	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PARACLIUS INTEGRIPINNIS	-	-	-	-	-	-	-	-	-	-	-	22	-	-	-	-
METEROSTICHUS ROSTRATUS	12	13	11	10	-	13	-	11	-	-	-	-	-	-	-	-
CLINIDAE TYPE A	-	13	11	-	-	-	-	-	11	-	-	11	-	-	-	-
HYPSOBLENNIUS SPP.	97	134	33	-	51	-	94	46	20	-	22	138	239	144	99	
GOBIIDAE, UNID.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12	-
TYPHLOGOBIVS CALIFORNIENSIS	12	-	22	-	13	-	-	-	-	-	-	-	-	-	-	-
GOBIIDAE, TYPE A	-	-	11	-	13	-	-	-	-	-	-	-	-	-	-	-
GOBIIDAE, TYPE H	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12	-
COTTIDAE, TYPE J	85	40	33	10	-	13	27	149	-	-	-	-	11	-	12	-
CITHARICHTHYS STIGMAEUS	-	-	-	-	-	13	-	-	-	-	-	-	-	-	-	-
PLEURONICHTHYS VERTICALIS	-	-	-	-	-	-	-	11	-	-	-	-	-	-	-	-
PISCES, LARVAE, UNID.	12	-	-	-	38	26	-	-	-	10	-	11	21	13	12	-
NUMBER OF INDIVIDUALS	460	507	395	256	460	298	497	464	326	477	357	308	426	680	336	231
NUMBER OF SPECIES	8	6	8	4	8	6	3	6	2	4	2	4	5	4	7	2

AURIGA NET NUMBER OF INDIVIDUALS/1000M**3																
SPECIES NAME	STATION T-1				STATION T-2				STATION C-1				STATION C-2			
	REPLICATE:	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3
GYMNOTHOKAX MORDAX	-	-	-	-	-	-	-	-	-	-	-	10	-	-	-	-
ENGRAULIS MORDAX	2441	2630	1313	1340	2173	1630	1067	1727	800	2210	885	1519	473	703	832	683
BATHYLAGUS OCHOTENSIS	-	-	-	-	-	-	-	-	-	-	-	-	-	9	-	-
MYCTOPHIDAE, UNID.	-	-	-	-	-	-	-	-	-	-	-	-	-	9	-	-
GOBIESOX RHESODON	224	269	159	150	100	93	51	45	25	68	-	337	-	-	-	-
ATHERININAE, UNID.	-	-	-	-	-	-	-	18	-	9	10	-	-	-	-	-
SERIPHUS POLITUS	128	261	8	71	-	-	-	-	-	-	-	364	18	9	-	8
GENYONEMUS LINEATUS	296	370	242	126	-	37	10	-	8	316	-	181	-	-	-	-
ATRACIOSION NOBILIS	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HYPSPYOPS RUBICUNDA	-	-	-	-	-	-	-	-	8	17	-	25	-	-	-	-
METEROSTICHUS ROSTRATUS	24	50	33	102	67	47	10	27	-	-	-	49	-	-	-	-
CLINIDAE TYPE A	-	-	-	-	-	9	-	-	-	-	-	-	-	-	-	-
CLINIDAE TYPE B	-	-	-	-	-	-	-	-	8	-	-	16	-	-	-	8
HYPSOBLENNIUS SPP.	-	8	8	-	-	-	30	-	-	-	243	49	131	44	71	17
GOBIIDAE, TYPE A	64	151	92	150	-	-	-	9	-	17	-	156	-	-	-	-
LEPIDOGOBIVS LEPIDUS	8	8	-	8	-	-	-	-	-	-	-	-	-	-	-	-
COTTIDAE, TYPE A	-	-	-	-	11	-	-	-	-	-	-	-	-	-	-	-
COTTIDAE, TYPE J	-	-	-	-	-	-	10	-	-	-	-	10	-	-	-	-
CITHARICHTHYS STIGMAEUS	-	-	-	-	11	9	-	-	-	-	-	-	-	-	-	-
PARALICHTHYS CALIFORNICUS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9	-
PLEURONICHTHYS VERTICALIS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9	-
HYPSPYOPS GUTTULATA	-	-	-	-	-	-	-	-	-	-	-	-	-	9	9	-
PISCES, LARVAE, UNID.	144	244	59	24	488	140	71	81	-	77	10	33	18	9	9	-
NUMBER OF INDIVIDUALS	3537	3991	1914	1971	2830	1965	1249	1907	844	2714	1168	2730	649	142	930	716
NUMBER OF SPECIES	9	9	8	8	6	7	7	6	5	7	6	10	5	7	5	4



Table VI-24. Number of individuals collected in SONGS intake samples, 27-28 June 1978.

SPECIES NAME	INTAKE SAMPLE NUMBER OF INDIVIDUALS/1000M**3												
	REPLICATE:	1	2	3	4	5	6	7	8	9	10	11	12
ENGRAULIS MORDAX		9	11	-	-	15	31	10	40	-	10	32	226
GOBIESOX RHESSODON		-	11	11	-	22	10	10	59	20	-	-	11
ATHERINOPSIS CALIFORNIENSIS		-	-	-	-	-	-	-	-	-	-	-	-
SERIPHUS POLITUS		-	11	11	11	-	-	-	20	-	-	11	54
GENYONEMUS LINEATUS		-	-	-	-	-	-	-	-	-	-	-	22
PARACLINUS INTEGRIPINNIS		9	-	-	-	-	-	-	-	-	-	-	-
HETEROSTICHUS ROSTRATUS		-	-	-	-	-	-	-	-	-	-	-	-
CLINIDAE TYPE A		-	-	-	-	15	10	-	-	10	-	-	43
MYPSOBLENNIUS SPP.		130	242	284	87	44	132	109	366	164	82	74	129
GOBIIDAE, UNID.		-	-	-	-	-	-	-	-	-	-	21	-
TYPHLOGOBIUS CALIFORNIENSIS		-	-	-	-	-	-	-	-	-	10	-	-
GOBIIDAE, TYPE A		-	-	-	11	-	-	-	-	-	-	-	-
LEPIDOGOBIUS LEPIDUS		-	-	-	-	-	-	-	-	-	-	-	-
COTTIDAE, TYPE J		165	116	-	54	-	-	-	-	-	-	-	-
PISCES, LARVAE, UNID.		-	11	-	22	-	-	10	-	61	10	-	-
NUMBER OF INDIVIDUALS		313.	402.	306.	185.	96.	183.	139.	485.	255.	112.	138.	485.
NUMBER OF SPECIES		4.	6.	3.	5.	4.	4.	4.	4.	4.	4.	4.	6.
SPECIES NAME	REPLICATE:	13	14	15	16	17	18	19	20	21	22	23	24
ENGRAULIS MORDAX		154	265	270	207	294	84	82	159	121	110	51	63
GOBIESOX RHESSODON		-	33	10	10	22	-	-	11	11	44	-	11
ATHERINOPSIS CALIFORNIENSIS		-	-	-	-	-	-	-	11	-	-	-	-
SERIPHUS POLITUS		-	77	31	-	33	31	-	11	-	-	-	-
GENYONEMUS LINEATUS		-	-	10	-	-	-	-	-	33	33	10	-
PARACLINUS INTEGRIPINNIS		-	-	-	-	-	-	-	-	-	-	-	-
HETEROSTICHUS ROSTRATUS		-	-	10	-	-	21	-	-	-	-	-	-
CLINIDAE TYPE A		10	-	-	-	-	-	-	-	11	-	-	-
MYPSOBLENNIUS SPP.		82	88	10	21	11	21	-	11	-	-	-	21
GOBIIDAE, UNID.		-	-	-	-	11	-	-	-	-	-	-	-
TYPHLOGOBIUS CALIFORNIENSIS		10	-	21	21	87	21	-	-	11	11	30	-
GOBIIDAE, TYPE A		-	22	62	-	-	-	10	11	44	44	30	-
LEPIDOGOBIUS LEPIDUS		-	11	-	-	-	-	-	-	-	-	-	-
COTTIDAE, TYPE J		-	-	-	-	11	-	-	-	-	-	-	-
PISCES, LARVAE, UNID.		-	-	-	10	11	10	-	21	11	-	-	-
NUMBER OF INDIVIDUALS		256.	496.	424.	269.	480.	188.	92.	235.	242.	242.	121.	95.
NUMBER OF SPECIES		4.	6.	8.	5.	8.	6.	2.	7.	7.	5.	4.	3.

Table VI-25. Fish egg concentrations for SONGS ichthyoplankton sampling program 27-29 July 1978.

		NUMBER OF EGGS/1000 M**3							
STATION: NET TYPE	REPLICATE	T-1		T-2		C-1		C-2	
		ANCHOVY	TOTAL	ANCHOVY	TOTAL	ANCHOVY	TOTAL	ANCHOVY	TOTAL
MANTA	1	0	1915	0	4857	0	7710	8	2540
	2	9	23019	0	2580	0	6784	0	2581
	3	0	17756	9	33934	0	8927	0	2163
	4	9	31945	0	24559	0	6044	0	3169
BONGO	1	40697	40702	2244	2253	3759	3759	3291	3291
	2	11000	11009	3860	3893	2584	2584	3940	3940
	3	9908	9927	12119	12155	3030	3030	3315	3315
	4	10545	10553	11798	11849	92	92	3514	3514
AURIGA	1	929	3036	897	4000	134	5070	88	2494
	2	747	1984	376	3202	91	3696	120	2926
	3	601	1788	441	5520	73	2329	114	4221
	4	1535	2570	635	32818	93	1703	222	3262

TIME OF DAY: INTAKE-PUMP REPLICATE	MORNING		AFTERNOON		SUNSET	
	ANCHOVY	TOTAL	ANCHOVY	TOTAL	ANCHOVY	TOTAL
1	38	1809	0	5547	0	1251
2	0	1267	0	6518	0	876
3	0	1176	37	4866	80	1240
4	0	1458	0	7832	0	1332

TIME OF DAY: INTAKE-PUMP REPLICATE	BEFORE MIDNIGHT		AFTER MIDNIGHT		SUNRISE	
	ANCHOVY	TOTAL	ANCHOVY	TOTAL	ANCHOVY	TOTAL
1	0	3218	0	1408	41	2464
2	0	1933	0	1355	40	1964
3	42	1042	0	2031	0	2827
4	0	1727	0	1779	0	2213

Table VI-26. Number of individuals collected in SONGS offshore tows, 27-29 July 1978.

MANTA NET NUMBER OF INDIVIDUALS/1000M <sup>3</sup>																	
SPECIES NAME	REPLICATE:	STATION 1-1				STATION 1-2				STATION C-1				STATION C-2			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
ENGRAULIS MORDAX		72	19	103	27	-	-	9	24	-	-	-	25	8	9	-	-
ATHERINIDAE, UNID.		101	65	131	55	89	59	124	61	59	67	101	117	93	46	29	10
LEURESTHES TENUIS		86	121	516	327	45	92	204	73	101	53	246	109	101	139	115	70
ATHERINIDAE, TYPE B		79	-	94	9	-	-	9	89	166	25	541	-	42	-	-	60
SYNGNATHUS SP.		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SERIPHUS PULITUS		-	-	-	-	-	-	-	-	-	8	-	-	-	-	-	-
MYPSYPOPS KUBICUNDA		-	-	-	-	-	9	-	-	126	142	138	134	328	231	250	200
PARACLINUS INTEGRIPINNIS		-	-	-	-	-	-	-	-	-	8	-	-	-	-	-	-
METEROSTICHUS ROSTRATUS		7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CLINIDAE, TYPE A		7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HYPSOBLENNIUS SPP.		122	166	336	382	125	92	115	218	253	317	46	25	892	564	77	70
TYPHLOGGOBIUS CALIFURNIENSIS		-	-	9	-	-	-	-	-	-	-	-	-	-	-	-	-
GGOBIIDAE, TYPE A		-	-	-	-	-	-	-	-	8	17	-	-	-	-	-	-
LYTHRYPHUS SP.		-	-	-	-	-	-	-	-	8	-	-	-	8	-	-	-
PISCES LARVAE, UNID.		-	28	36	-	27	6	18	32	42	50	9	34	34	136	29	20
PISCES YULK SAC LARVAE		-	-	-	-	-	-	-	-	-	-	-	-	17	-	-	-
NUMBER OF INDIVIDUALS		474	401	1229	800	286	251	488	517	765	667	1083	452	1523	1119	500	430
NUMBER OF SPECIES		7	5	7	4	4	4	7	6	6	9	6	7	9	6	5	6

BUNGO NET NUMBER OF INDIVIDUALS/1000M <sup>3</sup>																	
SPECIES NAME	REPLICATE:	STATION 1-1				STATION 1-2				STATION C-1				STATION C-2			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
ENGRAULIS MORDAX		17	167	119	64	92	75	121	235	104	102	104	95	38	46	49	71
TRIPHOPIUS MEXICANUS		-	-	-	-	5	-	-	-	-	-	-	-	-	-	-	-
MYCTOPHIDAE, UNID.		-	-	-	-	-	9	-	-	-	-	-	-	-	-	-	-
PURICHTHYS NOTATUS		-	-	-	-	-	-	-	-	-	9	-	-	-	-	-	-
GGBIESOX RHESUDON		4	46	27	9	18	-	-	4	9	4	17	5	5	14	31	5
GGBIESOXIDAE, TYPE B		-	-	5	-	-	-	-	-	-	-	-	-	-	-	-	-
ATHERINIDAE, UNID.		-	-	-	-	-	-	-	-	-	-	4	-	-	-	-	-
LEURESTHES TENUIS		-	-	-	-	-	4	-	-	-	-	-	-	-	-	-	-
SYNGNATHUS SP.		-	-	-	-	-	-	-	-	5	-	-	-	-	-	-	-
SERIPHUS PULITUS		183	98	60	34	14	9	6	4	77	232	96	62	4	9	4	5
SCIAENIDAE, TYPE C		4	-	-	-	-	-	-	-	5	4	-	-	5	-	4	-
MYPSYPOPS KUBICUNDA		-	-	-	-	-	4	-	-	32	31	33	48	394	214	350	286
PARACLINUS INTEGRIPINNIS		-	5	-	4	5	5	4	4	27	18	4	19	5	5	9	5
METEROSTICHUS ROSTRATUS		-	42	18	4	-	-	20	-	18	9	-	-	-	-	-	5
CLINIDAE, TYPE A		4	14	14	13	5	-	-	4	14	18	13	10	5	-	-	5
HYPSOBLENNIUS SPP.		310	149	206	130	23	69	40	128	66	22	142	43	361	292	171	109
TYPHLOGGOBIUS CALIFURNIENSIS		-	-	5	9	-	-	-	4	-	4	-	-	5	-	-	-
GGOBIIDAE, TYPE A		17	-	-	4	-	-	-	4	14	22	17	10	-	-	-	-
LYTHRYPHUS SP.		-	-	-	-	-	-	-	-	-	-	-	-	5	-	-	-
LIPARIS MUCOSUS		-	-	-	-	-	-	-	-	5	-	-	-	-	-	-	-
CITHARICHTHYS STIGMAEUS		-	-	-	-	-	5	-	-	-	-	-	-	-	-	-	-
MIPPOGLUSSINA SIUMATA		-	-	-	-	-	5	-	-	-	-	-	-	-	-	-	-
PARALICHTHYS CALIFURNICUS		-	-	-	-	-	5	-	-	-	-	-	-	-	-	-	-
PISCES LARVAE, UNID.		47	5	9	4	-	9	-	-	27	36	33	10	19	5	9	5
PISCES YULK SAC LARVAE		-	-	-	-	-	-	-	-	-	-	-	-	5	-	-	-
NUMBER OF INDIVIDUALS		586	526	465	285	162	211	201	367	423	511	463	302	856	585	627	490
NUMBER OF SPECIES		8	8	9	10	7	9	7	8	13	13	10	9	12	7	6	9

AUMGA NET NUMBER OF INDIVIDUALS/1000M <sup>3</sup>																	
SPECIES NAME	REPLICATE:	STATION 1-1				STATION 1-2				STATION C-1				STATION C-2			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
ENGRAULIS MORDAX		259	522	931	1256	462	1083	864	331	154	302	240	463	567	226	435	409
MYCTOPHIDAE, UNID.		-	-	-	-	-	-	-	-	-	-	-	-	7	-	-	-
GGBIESOX RHESUDON		179	48	30	41	-	9	26	27	13	106	22	50	52	15	29	21
GGBIESOXIDAE, TYPE A		-	-	-	-	-	-	-	-	-	-	-	164	-	-	-	-
LEURESTHES TENUIS		-	-	-	-	-	-	-	-	7	-	-	-	-	-	-	-
SERIPHUS PULITUS		1223	257	91	164	-	-	9	-	107	3749	837	5424	-	-	-	-
GENYONEMUS LINEATUS		-	-	-	-	-	-	-	-	-	-	-	-	7	-	-	-
HYPSYPOPS KUBICUNDA		-	-	-	-	-	-	-	-	-	-	-	-	7	-	-	-
PIMELOMEIOPON PULCHRUM		-	-	-	-	-	-	-	-	7	-	-	-	-	-	-	-
PARACLINUS INTEGRIPINNIS		-	-	-	-	-	-	-	-	7	-	-	-	-	-	-	-
METEROSTICHUS ROSTRATUS		196	24	8	33	9	9	26	18	-	23	7	36	15	-	-	-
CLINIDAE, TYPE A		9	24	30	-	-	28	-	-	-	-	22	64	-	-	-	-
HYPSOBLENNIUS SPP.		-	-	-	-	9	-	-	-	20	-	-	43	-	-	-	-
TYPHLOGGOBIUS CALIFURNIENSIS		-	-	-	-	-	-	-	-	-	-	7	21	-	-	-	-
GGOBIIDAE, TYPE A		89	24	23	16	-	-	-	9	34	158	95	-	-	8	-	7
LEPIDOGGOBIUS LEPIDUS		-	-	-	-	-	-	-	-	-	-	22	-	-	-	-	-
CITHARICHTHYS STIGMAEUS		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7
PISCES LARVAE, UNID.		27	32	15	33	94	211	366	250	7	166	7	71	29	-	7	14
PISCES YULK SAC LARVAE		-	-	8	-	-	4	-	-	-	-	-	-	-	-	-	-
NUMBER OF INDIVIDUALS		1962	931	1156	1543	574	1349	1251	635	356	4504	1259	6350	670	249	465	456
NUMBER OF SPECIES		7	7	8	8	4	6	5	5	9	6	9	11	5	5	4	5

Table VI-27. Number of individuals collected in SONGS intake samples, 27-29 July 1978.

SPECIES NAME	INTAKE SAMPLE NUMBER OF INDIVIDUALS/1000M**3												
	REPLICATE:	1	2	3	4	5	6	7	8	9	10	11	12
ENGRAULIS MORDAX		39	74	-	-	77	-	38	112	167	167	160	404
PORICHTHYS NOTATUS		-	-	-	-	-	-	-	-	-	-	-	-
GOBIESOX RHESSODON		-	37	-	-	-	-	38	37	-	42	40	40
SERIPHUS POLITUS		78	149	352	76	539	154	569	1645	167	354	240	161
SPHYRAENA ARGENTEA		-	-	-	-	38	-	-	-	-	-	-	-
PARACLINUS INTEGRIPINNIS		-	-	-	-	-	-	-	-	-	-	-	-
HETEROSTICHUS ROSTRATUS		-	-	-	-	38	-	76	-	-	-	-	-
CLINIDAE, TYPE A		-	37	74	-	-	38	-	57	-	-	-	-
HYPSOBLENNIUS SPP.		117	74	258	153	-	115	114	262	-	-	-	40
TYPHLOGOBIUS CALIFORNIENSIS		-	-	-	-	-	-	-	-	-	-	-	-
GOBIIDAE, TYPE A		-	-	111	-	115	-	38	112	42	42	40	121
PISCES LARVAE, UNID.		78	-	-	-	-	-	-	37	-	42	-	40
NUMBER OF INDIVIDUALS		312.	371.	775.	229.	807.	307.	873.	2242.	376.	627.	480.	806.
NUMBER OF SPECIES		4.	5.	4.	2.	5.	3.	6.	7.	3.	5.	4.	6.
SPECIES NAME	REPLICATE:	13	14	15	16	17	18	19	20	21	22	23	24
ENGRAULIS MORDAX		326	225	375	393	343	348	290	151	123	200	253	167
PORICHTHYS NOTATUS		41	-	-	-	-	-	-	-	-	-	-	-
GOBIESOX RHESSODON		41	-	42	79	114	155	-	38	41	120	-	42
SERIPHUS POLITUS		1996	854	750	981	1408	1820	1990	2271	2259	1844	1899	1545
SPHYRAENA ARGENTEA		-	-	-	-	-	-	-	-	-	-	-	-
PARACLINUS INTEGRIPINNIS		-	-	-	-	-	-	-	-	41	-	-	-
HETEROSTICHUS ROSTRATUS		-	-	-	-	-	-	-	-	-	-	42	-
CLINIDAE, TYPE A		-	45	-	-	-	-	41	-	-	-	-	42
HYPSOBLENNIUS SPP.		41	135	-	-	-	-	-	-	-	-	-	-
TYPHLOGOBIUS CALIFORNIENSIS		-	-	42	-	-	-	-	-	-	40	42	-
GOBIIDAE, TYPE A		163	45	83	236	190	194	290	151	123	80	422	167
PISCES LARVAE, UNID.		-	45	-	-	38	-	-	-	-	80	-	84
NUMBER OF INDIVIDUALS		2608.	1349.	1292.	1689.	2093.	2517.	2611.	2611.	2587.	2364.	2658.	2047.
NUMBER OF SPECIES		6.	6.	5.	4.	5.	4.	4.	4.	5.	6.	5.	6.

Table VI-28. Fish egg concentrations for SONGS ichthyoplankton sampling program 29-30 August 1978.

		NUMBER OF EGGS/1000 M**3							
STATION: NET TYPE	REPLICATE	T-1		T-2		C-1		C-2	
		ANCHOVY	TOTAL	ANCHOVY	TOTAL	ANCHOVY	TOTAL	ANCHOVY	TOTAL
MANTA	1	0	654	0	1682	0	71338	16	58760
	2	0	745	0	911	7	48866	0	45440
	3	0	1439	0	1500	0	50776	8	38393
	4	0	2413	0	3362	0	40794	8	44002
BONGO	1	0	5340	0	13928	4	17951	5	25251
	2	0	7747	0	89693	0	12577	5	7739
	3	5	5150	0	54873	0	18821	0	16701
	4	8	6825	0	32210	0	17961	0	17551
AURIGA	1	0	2046	0	34836	0	992	0	2166
	2	0	10036	0	40629	0	872	0	1087
	3	0	1558	0	34635	0	1651	0	2006
	4	0	1294	0	3557	0	3234	0	4475

TIME OF DAY: INTAKE-PUMP REPLICATE	MORNING		AFTERNOON		SUNSET	
	ANCHOVY	TOTAL	ANCHOVY	TOTAL	ANCHOVY	TOTAL
1	17	90920	0	3043	0	212777
2	18	27349	0	2643	19	135856
3	0	63627	0	72836	0	121605
4	0	62775	0	75576	0	75646
5	0	4137	0	60786	0	0
6	0	19822	0	5985	0	0

TIME OF DAY: INTAKE-PUMP REPLICATE	BEFORE MIDNIGHT		AFTER MIDNIGHT		SUNRISE	
	ANCHOVY	TOTAL	ANCHOVY	TOTAL	ANCHOVY	TOTAL
1	41	148282	17	17793	18	76054
2	0	103731	36	28925	0	48484
3	16	80399	0	52474	0	71896
4	17	90000	0	371794	0	60253
5	0	23018	0	217650	0	0
6	0	30221	0	118236	0	0

Table VI-29. Number of individuals collected in SONGS offshore tows, 29-30 August 1978.

SPECIES NAME	MANTA NET NUMBER OF INDIVIDUALS/1000M**3															
	STATION T-1				STATION T-2				STATION C-1				STATION C-2			
	REPLICATE: 1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
ENGRAULIS MORDAX	-	-	8	-	-	-	-	-	-	-	-	-	-	-	8	-
EXOCOETIDAE, UNID.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8	-
CYPSSELURUS SP. A	-	-	-	-	-	-	-	-	7	-	-	-	-	-	-	-
CYPSSELURUS SP. B	-	-	-	-	-	-	-	-	7	-	-	-	-	-	-	-
STRONGYLURA EXILIS	-	-	-	-	-	-	7	-	-	-	-	-	-	-	-	-
COLOLABIS SAIRA	-	-	-	45	7	15	-	7	49	-	-	-	16	22	8	16
ATHERINIDAE, UNID.	-	7	-	-	15	22	-	51	28	23	57	16	30	8	33	
ATHERINOPS AFFINIS	-	15	-	-	-	-	-	7	14	8	24	-	-	-	8	-
LEURESTHES TENUIS	76	82	88	70	470	326	342	514	80	77	115	219	49	90	114	181
SYNGNATHUS SP.	-	7	-	-	-	-	-	-	-	-	-	-	8	7	-	8
PARALABRAX, TYPE B	-	-	-	-	8	-	7	-	-	-	-	-	-	-	-	25
PARALABRAX, TYPE C	-	-	-	7	-	7	22	-	7	7	8	-	16	-	-	-
TRACHURUS SYMMETRICUS	-	-	-	45	59	153	49	29	63	45	40	73	119	183	197	-
ANISOTREMUS DAVIDSONI	-	-	-	-	-	22	-	-	-	-	-	-	-	-	-	8
SERIPHUS POLITUS	-	-	-	-	15	15	7	-	14	-	-	-	-	-	-	8
GENYONEMUS LINEATUS	-	-	-	-	15	-	-	-	7	7	8	-	-	-	8	33
SCIAENIDAE, TYPE C	-	-	-	83	-	-	-	-	15	7	-	16	-	-	-	-
MENTICIRRUS UNDULATUS	-	-	-	15	-	-	14	-	-	-	-	-	22	15	16	-
HYPSPYDPS RUBICUNDA	-	-	-	-	-	-	-	7	35	30	8	-	-	-	15	-
PIMELOMETOPON PULCHRUM	-	-	-	91	-	-	-	-	-	-	-	15	-	-	-	-
SPHYRAENA ARGENTEA	-	-	-	-	-	-	-	-	-	-	8	-	-	-	-	-
PARACLINUS INTEGRIPINNIS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HETEROSTICHUS ROSTRATUS	-	-	-	-	8	-	-	-	-	-	-	-	-	-	-	-
HYPSSOLENNIUS SPP.	42	15	32	49	8	30	29	35	29	35	15	16	49	127	107	222
TYPHLOGOBIUS CALIFORNIENSIS	-	-	-	-	-	-	-	-	-	7	-	-	-	-	-	-
CITHARICHTHYS SPP.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8
PISCES LARVAE, UNID.	7	7	8	49	15	111	44	-	7	7	23	24	16	-	38	8
PISCES YOLK SAC LARVAE	-	7	8	56	68	333	371	204	102	105	105	154	705	463	434	591
NUMBER OF INDIVIDUALS	125.	140.	144.	231.	886.	903.	1034.	823.	362.	455.	601.	574.	956.	887.	954.	1314.
NUMBER OF SPECIES	3.	7.	5.	5.	13.	9.	11.	6.	14.	10.	12.	11.	10.	9.	13.	14.

SPECIES NAME	BONGO NET NUMBER OF INDIVIDUALS/1000M**3															
	STATION T-1				STATION T-2				STATION C-1				STATION C-2			
	REPLICATE: 1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
ENGRAULIS MORDAX	29	-	-	13	23	13	36	67	38	19	27	5	18	5	10	10
STENOBRACHIUS LEUCOPSARUS	-	-	-	-	-	-	-	10	-	-	-	-	-	-	-	-
GOBIESOX RHESSUDON	-	-	-	-	-	-	-	-	4	-	-	-	-	-	-	-
COLOLABIS SAIRA	-	-	-	-	-	-	-	-	-	-	-	-	5	-	-	-
SYNGNATHUS EXILIS	-	4	10	-	-	-	-	-	-	-	-	-	-	-	-	-
PARALABRAX, TYPE B	-	-	-	-	-	-	-	-	13	-	-	5	-	-	-	-
PARALABRAX, TYPE C	4	13	-	-	32	39	18	29	8	19	27	-	16	15	15	44
TRACHURUS SYMMETRICUS	-	9	-	-	28	100	125	52	21	-	-	59	32	50	15	39
ANISOTREMUS DAVIDSONI	-	-	-	-	18	13	4	-	-	-	-	-	-	-	-	-
SERIPHUS POLITUS	837	52	59	21	14	-	22	5	76	101	273	65	9	5	26	44
GENYONEMUS LINEATUS	8	9	20	17	92	26	13	14	-	29	18	5	9	10	15	10
SCIAENIDAE, TYPE C	8	-	5	4	-	-	9	10	-	14	5	-	-	-	5	-
MENTICIRRUS UNDULATUS	4	4	-	4	18	9	9	5	25	43	9	5	55	10	31	59
HYPSPYDPS RUBICUNDA	-	-	-	-	-	-	-	-	4	5	18	11	5	-	-	10
PIMELOMETOPON PULCHRUM	-	-	-	14	9	-	-	-	-	5	-	-	-	-	-	-
OXYJULIS CALIFORNICA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15
SPHYRAENA ARGENTEA	-	-	-	-	4	-	-	-	-	-	-	-	-	-	-	-
PARACLINUS INTEGRIPINNIS	-	-	-	-	-	-	-	-	4	14	-	5	-	5	5	-
HETEROSTICHUS ROSTRATUS	8	-	-	-	5	4	4	-	-	5	-	-	-	5	-	-
CLINIDAE, TYPE A	-	-	-	-	5	4	-	-	-	5	-	-	-	5	-	-
HYPSSOLENNIUS SPP.	112	114	69	89	60	96	89	24	13	48	27	27	179	15	77	220
TYPHLOGOBIUS CALIFORNIENSIS	-	-	-	-	-	-	-	-	-	-	23	-	5	-	-	5
GOBIIDAE, TYPE A	50	13	10	-	-	-	-	-	4	24	18	-	-	-	-	-
LYTHRYPHUS SP.	-	-	-	-	9	4	-	-	-	-	-	-	-	5	10	-
SCUMBER JAPONICUS	-	-	-	-	5	-	-	-	-	-	-	-	-	-	-	-
HIPPGLOSSINA STOMATA	-	-	-	-	-	-	-	-	-	5	-	-	-	-	5	10
PARALICHTHYS CALIFORNICUS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PARALICHTHYS/XYSTREURYS LIGLEPIS	-	4	-	-	-	-	4	33	4	-	-	-	10	20	10	44
PLEURONICHTHYS VERTICALIS	-	-	-	-	14	-	-	-	-	5	-	-	-	5	-	20
HYPSPSETTA GUTTULATA	4	9	5	-	5	-	-	10	-	-	-	-	-	5	-	10
PISCES LARVAE, UNID.	4	9	5	-	5	13	9	24	30	5	46	11	5	5	5	15
PISCES YOLK SAC LARVAE	8	48	10	13	157	218	321	219	174	53	73	97	23	50	77	102
NUMBER OF INDIVIDUALS	1072.	279.	188.	161.	508.	548.	663.	502.	418.	394.	574.	295.	382.	185.	316.	657.
NUMBER OF SPECIES	11.	11.	8.	7.	17.	13.	13.	14.	16.	14.	14.	11.	14.	14.	16.	16.

SPECIES NAME	AURIGA NET NUMBER OF INDIVIDUALS/1000M**3															
	STATION T-1				STATION T-2				STATION C-1				STATION C-2			
	REPLICATE: 1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
ENGRAULIS MORDAX	161	171	186	210	155	149	104	306	32	26	101	28	20	27	10	66
TRIPNOTURUS MEXICANUS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9
GOBIESOX RHESSUDON	18	27	56	52	-	40	-	10	-	17	18	-	-	-	-	-
PARALABRAX, TYPE B	-	-	-	-	-	10	31	10	-	-	-	-	-	-	-	-
PARALABRAX, TYPE C	-	-	-	-	29	30	-	-	-	-	-	9	-	-	-	9
TRACHURUS SYMMETRICUS	-	-	-	-	29	20	73	10	-	-	-	-	-	-	-	9
ANISOTREMUS DAVIDSONI	-	-	-	-	10	-	-	-	-	-	-	-	-	-	-	-
SERIPHUS POLITUS	1063	1332	2208	1224	77	188	83	79	2405	1648	5853	1682	39	53	29	56
GENYONEMUS LINEATUS	-	18	9	-	-	-	-	-	-	-	-	-	-	-	-	-
SCIAENIDAE, TYPE C	-	9	-	-	29	20	10	-	-	-	-	-	-	-	-	-
PIMELOMETOPON PULCHRUM	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9
SPHYRAENA ARGENTEA	-	-	-	-	-	20	-	-	-	-	-	-	-	-	-	-
PARACLINUS INTEGRIPINNIS	9	-	-	-	10	-	-	-	-	-	-	-	-	-	-	-
HETEROSTICHUS ROSTRATUS	9	18	19	-	-	-	-	10	-	-	-	-	-	-	-	-
CLINIDAE, TYPE A	36	-	-	26	-	20	-	40	105	113	266	121	-	-	-	-
HYPSSOLENNIUS SPP.	-	9	-	-	212	139	94	10	-	9	18	19	-	-	-	-
TYPHLOGOBIUS CALIFORNIENSIS	-	9	9	-	-	20	-	-	-	61	37	37	-	-	-	-
GOBIIDAE, TYPE A	80	63	195	149	10	30	10	-	-	26	138	37	-	-	-	-
LEPIDOGOBIOUS LEPIDUS	9	27	-	9	-	-	-	-	-	-	9	-	-	-	-	-
COTTIDAE, TYPE A	-	18	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PARALICHTHYS CALIFORNICUS	-	-	-	-	-	-	-	-	-	-	9	-	-	-	-	9
PARALICHTHYS/XYSTREURYS LIGLEPIS	-	-	-	-	29	59	52	-	-	-	-	-	-	-	-	9
HYPSPSETTA GUTTULATA	-	-	-	-	-	-	-	-	-	-	-	-	10	-	-	19
PISCES LARVAE, UNID.	18	9	19	9	376	-	-	49	-	52	46	47	-	-	-	9
PISCES YOLK SAC LARVAE	-	18	-	-	299	248	302	20	-	-	-	-	-	-	-	9
NUMBER OF INDIVIDUALS	1403.	1726.	2701.	1679.	1245.	993.	759.	544.	2542.	1952.	6495.	1980.	69.	80.	39.	204.
NUMBER OF SPECIES	9.	13.	8.	7.	12.	14.	9.	10.	3.	8.	10.	8.	3.	2.	2.	10.

Table VI-30. Number of individuals collected in SONGS intake samples, 29-30 August 1978.

SPECIES NAME	INTAKE SAMPLE NUMBER OF INDIVIDUALS/1000M**3																
	REPLICATE:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
GYMNOTHORAX MORDAX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	227
ENGRAULIS MORDAX	55	37	50	17	18	-	52	90	836	1268	304	61	-	-	-	-	-
MYCTOPHIDAE, UNID.	-	-	-	-	-	-	-	-	-	18	-	-	-	-	-	-	-
GUBIESOX RHESSUDON	74	91	33	-	-	39	-	54	36	72	36	-	-	-	-	-	15
SYNGNATHUS SP.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	19	-	-
PARALABRAX, TYPE A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PARALABRAX, TYPE B	-	-	17	-	-	20	-	-	142	91	18	-	-	-	-	-	-
PARALABRAX, TYPE C	37	55	-	-	-	-	105	54	249	471	321	20	-	-	-	-	-
TRACHURUS SYMMETRICUS	-	-	17	-	-	-	-	-	36	91	-	-	-	-	-	-	-
ANISOTREMUS DAVIDSONI	-	-	150	-	-	-	-	-	338	1214	411	-	-	-	-	-	-
SERIPHUS POLITUS	129	110	50	83	36	20	17	18	36	109	143	141	130	195	144	318	
GENYONEMUS LINEATUS	74	91	-	66	71	39	-	72	36	72	18	20	43	253	90	-	
SCIAENIDAE, TYPE C	111	91	67	17	-	39	70	72	711	580	286	-	-	19	-	15	
MENTICIRRHUS UNDULATUS	627	238	249	17	36	78	366	596	1298	1721	661	242	-	-	-	-	
PARACLINUS INTEGRIPINNIS	18	-	50	-	-	-	35	-	18	18	-	-	-	-	-	-	
METROSTICHTHUS HOSTRATUS	-	-	35	17	-	-	-	-	-	18	-	-	22	58	56	15	
HYPSOBLENNIUS SPP.	-	73	83	-	-	-	-	17	-	18	217	252	525	-	19	36	
GUBIIDAE, TYPE A	-	55	33	-	-	18	-	-	-	-	-	-	-	-	19	36	
GUBIIDAE, TYPE H	-	-	-	17	18	-	-	-	-	-	-	-	-	-	-	-	
SCOMBER JAPONICUS	-	-	-	-	-	-	-	-	-	18	18	-	-	-	-	-	
COTTIDAE, TYPE J	461	165	249	-	-	-	17	72	142	290	504	283	22	19	18	45	
CITHARICHTHYS SPP.	-	18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
PARALICHTHYS/XYSTREURYS LIGLEPIS	-	55	50	-	18	-	17	108	53	36	89	-	-	-	-	-	
PLEURONICHTHYS VERTICALIS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	19	-	
HYPSPSETTA GUTTULATA	18	-	-	-	-	-	17	-	-	-	-	-	-	-	-	-	
PISCES LARVAE, UNID.	74	384	200	66	178	235	-	194	267	525	839	222	-	58	180	30	
PISCES YOLK SAC LARVAE	553	366	263	182	267	824	2042	506	1587	508	321	161	-	19	90	76	
NUMBER OF INDIVIDUALS	2251.	1829.	1614.	482.	660.	1294.	2755.	1841.	5603.	7137.	4001.	1473.	217.	697.	630.	756.	
NUMBER OF SPECIES	12.	14.	16.	9.	9.	8.	11.	11.	16.	19.	15.	9.	4.	11.	8.	9.	
SPECIES NAME	REPLICATE:	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
GYMNOTHORAX MORDAX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ENGRAULIS MORDAX	-	-	-	34	36	170	34	125	35	72	71	87	36	-	17	-	
MYCTOPHIDAE, UNID.	-	-	-	-	-	-	-	-	-	-	18	-	-	-	-	-	
GUBIESOX RHESSUDON	20	-	16	-	18	17	17	-	-	-	16	-	18	57	-	-	
SYNGNATHUS SP.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	17	
PARALABRAX, TYPE A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
PARALABRAX, TYPE B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
PARALABRAX, TYPE C	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TRACHURUS SYMMETRICUS	-	-	-	-	18	-	-	-	-	-	-	-	-	18	-	-	
ANISOTREMUS DAVIDSONI	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SERIPHUS POLITUS	164	51	32	17	125	256	102	54	70	126	106	35	54	-	55	72	
GENYONEMUS LINEATUS	286	324	239	34	179	426	441	358	192	234	212	105	143	148	87	90	
SCIAENIDAE, TYPE C	20	17	-	-	-	17	-	-	36	35	88	70	126	203	-	18	
MENTICIRRHUS UNDULATUS	-	-	-	-	-	-	-	-	-	-	17	-	17	18	52	-	
PARACLINUS INTEGRIPINNIS	-	-	-	-	-	-	-	36	17	36	18	-	18	-	-	-	
METROSTICHTHUS HOSTRATUS	20	-	64	-	36	17	51	18	-	18	35	17	-	-	-	18	
HYPSOBLENNIUS SPP.	82	17	16	17	-	-	-	-	17	-	-	-	-	36	-	-	
GUBIIDAE, TYPE A	61	17	32	34	18	51	51	54	17	-	18	70	-	-	-	-	
GUBIIDAE, TYPE H	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SCOMBER JAPONICUS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
COTTIDAE, TYPE J	41	-	16	67	36	-	17	18	-	-	-	-	-	-	18	18	
CITHARICHTHYS SPP.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
PARALICHTHYS/XYSTREURYS LIGLEPIS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18	-	
PLEURONICHTHYS VERTICALIS	-	-	-	17	-	-	-	-	-	-	-	-	-	-	-	-	
HYPSPSETTA GUTTULATA	-	-	-	-	-	17	-	-	17	-	-	-	-	18	-	-	
PISCES LARVAE, UNID.	143	102	52	50	-	34	17	18	17	162	18	-	72	18	139	162	
PISCES YOLK SAC LARVAE	61	102	-	67	196	17	68	287	87	289	194	-	90	536	400	505	
NUMBER OF INDIVIDUALS	898.	630.	447.	337.	662.	1022.	798.	1004.	504.	937.	796.	401.	629.	996.	747.	901.	
NUMBER OF SPECIES	10.	7.	8.	9.	9.	10.	9.	10.	10.	7.	11.	7.	11.	8.	7.	8.	

Table VI-31. Fish egg concentrations for SONGS ichthyoplankton sampling program 28-29 September 1978.

## NUMBER OF EGGS/1000 M\*\*3

STATION: NET TYPE	REPLICATE	T-1		T-2		C-1		C-2	
		ANCHOVY	TOTAL	ANCHOVY	TOTAL	ANCHOVY	TOTAL	ANCHOVY	TOTAL
MANTA	1	6	2553	0	3426	24	955	0	1065
	2	6	2586	0	5483	0	995	0	1752
	3	0	6584	0	5618	0	1266	0	1532
	4	0	5972	0	8992	0	1185	0	1972
BONGO	1	4	3173	0	6903	0	2413	0	3228
	2	0	3360	5	4608	0	2439	0	2502
	3	0	2516	54	4649	0	2360	0	2953
	4	6	5221	5	4119	0	2276	0	1248
AURIGA	1	0	848	0	2215	9	588	0	1353
	2	0	676	0	2289	0	310	81	1178
	3	0	706	0	2023	9	386	28	729
	4	0	652	0	2651	9	359	19	916

TIME OF DAY: INTAKE-PUMP REPLICATE	MORNING		AFTERNOON		SUNSET	
	ANCHOVY	TOTAL	ANCHOVY	TOTAL	ANCHOVY	TOTAL
1	0	0	0	0	0	0
2	0	0	0	0	0	0
3	0	0	0	0	0	0
4	0	0	0	0	0	0

TIME OF DAY: INTAKE-PUMP REPLICATE	BEFORE MIDNIGHT		AFTER MIDNIGHT		SUNRISE	
	ANCHOVY	TOTAL	ANCHOVY	TOTAL	ANCHOVY	TOTAL
1	0	0	0	0	0	0
2	0	0	0	0	0	0
3	0	0	0	0	0	0
4	0	0	0	0	0	0



Table VI-32. Number of individuals collected in SONGS offshore tows, 28-29 September 1978.

MANTA NET NUMBER OF INDIVIDUALS/1000M**3																	
SPECIES NAME	REPLICATE:	STATION T-1				STATION T-2				STATION C-1				STATION C-2			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
ENGRAULIS MORDAX		6	-	8	25	8	95	29	218	-	-	15	16	8	17	14	50
SYNDUS LUCICEPS		-	-	-	-	-	-	7	-	-	-	-	-	-	-	-	-
GOBIESOX RHESODON		6	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OTOPHIUM SCRIPPSI		-	-	-	8	-	-	-	-	-	-	-	-	-	-	-	-
EXOCEOTIDAE, TYPE A		-	-	-	-	-	-	-	-	-	-	-	-	30	9	-	-
ATHERINIDAE, UNID.		-	6	8	-	-	-	-	-	-	-	6	-	-	9	-	-
LEURESTHES TENUIS		6	6	-	-	8	-	-	-	16	29	15	16	-	9	7	-
ATHERINIDAE, TYPE B		-	-	-	-	-	-	-	-	-	-	-	-	-	9	-	-
BELONIFORMES TYPE #1		-	-	-	-	-	-	-	-	-	-	-	-	-	9	-	-
SYNGNATHUS SP.		-	6	24	-	8	-	7	-	-	-	-	-	-	-	7	-
PARALABRAX NEBULIFEN		-	-	-	-	-	-	11	-	-	-	-	-	-	-	-	-
PARALABRAX, TYPE C		-	-	-	8	-	-	22	-	-	-	-	16	-	-	-	8
PARALABRAX SPP.		13	-	-	-	-	-	7	-	-	-	-	-	-	-	-	-
CARANGIDAE, TYPE A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	7	-
SERIPHUS POLITUS		-	-	-	-	-	19	-	-	-	-	-	-	-	-	-	-
PIELOMETOPON PULCHRUM		-	-	-	-	-	-	7	-	-	-	-	-	-	-	-	-
HALICHOERES SEMICINCTUS		-	-	-	-	-	9	-	-	-	-	-	-	-	-	-	-
PARACLINUS INTEGRIPINNIS		-	-	-	-	-	-	-	-	-	7	-	-	-	-	-	-
CLINIDAE, TYPE A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HYPSOBLENNIUS SPP.		19	12	24	33	48	184	80	103	294	278	334	400	574	781	878	441
TYPHLOGOBBIUS CALIFURNIENSIS		-	-	-	-	-	9	-	-	-	8	-	-	-	-	-	-
GOBIIDAE, TYPE A		-	-	-	-	8	-	-	-	8	37	8	-	-	-	-	-
LYTHRYPHUS SP.		-	-	-	-	9	-	-	-	-	-	-	-	-	-	-	-
HIPPOGLOSSINA STOMATA		-	-	-	-	-	-	-	-	-	-	-	-	8	-	-	-
CITHARICHTHYS SPP.		-	-	-	17	16	28	-	92	-	-	-	-	-	-	-	-
PARALICHTHYS/XYSTHEURYS LICLEPIS		-	-	-	-	-	-	-	-	-	7	-	-	-	-	-	-
SYMPHURUS ATRICAUDA		-	-	-	25	-	19	7	23	-	-	-	-	-	-	-	8
PISCES LARVAE, UNID.		-	-	-	8	-	9	-	57	8	-	8	-	-	-	-	7
PISCES YOLK SAC LARVAE		-	12	32	91	-	66	29	103	-	-	8	16	-	-	-	-
NUMBER OF INDIVIDUALS		50.	48.	96.	215.	96.	452.	195.	607.	334.	358.	400.	464.	620.	843.	927.	507.
NUMBER OF SPECIES		5.	6.	5.	8.	6.	10.	9.	7.	5.	5.	8.	5.	4.	7.	7.	4.
BONGU NET NUMBER OF INDIVIDUALS/1000M**3																	
SPECIES NAME	REPLICATE:	STATION T-1				STATION T-2				STATION C-1				STATION C-2			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
ENGRAULIS MORDAX		148	150	271	650	687	1193	1706	1816	41	104	81	55	142	163	188	182
SYNDUS LUCICEPS		-	7	5	6	4	-	22	-	-	-	-	-	-	4	5	-
STENOBRACHIUS LEUCOPSANUS		-	-	-	-	-	-	-	-	-	5	-	-	-	-	-	-
PORICHTHYS NOTATUS		-	-	-	-	-	5	-	-	-	-	-	-	-	-	-	-
GOBIESOX RHESODON		22	4	-	-	-	-	-	-	256	31	-	5	-	-	-	-
CHILARA TAYLORI		-	-	5	6	4	-	-	-	-	-	-	-	-	-	-	-
OTOPHIUM SCRIPPSI		-	-	-	6	11	-	-	24	-	-	-	-	-	-	-	-
LEURESTHES TENUIS		-	-	-	-	7	-	-	-	-	-	-	-	-	4	-	-
SYNGNATHUS SP.		-	-	-	-	7	-	-	5	-	-	-	-	-	4	-	-
PARALABRAX, TYPE B		-	-	5	-	-	-	-	-	-	-	-	-	-	-	-	-
PARALABRAX, TYPE C		-	-	5	23	7	10	11	9	5	5	-	5	5	10	5	-
PARALABRAX SPP.		-	-	-	6	-	-	-	-	-	-	-	-	4	-	-	-
TRACHURUS SYMMETRICUS		-	-	-	12	-	5	5	-	69	10	-	5	-	-	-	-
SERIPHUS POLITUS		11	11	56	-	11	5	5	14	69	10	-	5	-	-	-	-
MENTICIRRHUS UNDULATUS		-	-	-	-	5	-	5	-	-	-	-	5	-	-	-	5
GENYONEMUS LINEATUS		-	-	-	-	-	-	-	-	-	-	-	5	-	-	-	-
SCIAENIDAE, TYPE C		-	4	-	-	-	-	-	-	5	-	-	-	5	-	-	-
OXYJULIS CALIFORNICA		-	-	-	-	-	-	-	-	-	-	-	-	5	-	-	-
HALICHOERES SEMICINCTUS		-	-	-	6	-	5	5	5	-	-	-	-	-	-	-	-
MUGIL CEPHALUS		-	-	-	-	-	-	5	-	-	-	-	5	-	-	-	-
SPHYRAENA ARGENTEA		-	4	-	-	-	-	-	-	21	5	-	-	-	4	-	-
PARACLINUS INTEGRIPINNIS		-	-	-	12	4	-	-	-	112	10	-	-	-	-	-	-
METROSTICHUS ROSTRATUS		-	-	5	-	4	-	-	-	-	-	-	-	-	-	-	-
CLINIDAE, TYPE A		7	4	9	12	7	10	11	-	85	135	5	-	-	4	-	-
HYPSOBLENNIUS SPP.		65	18	19	58	89	76	54	71	80	119	266	104	311	206	136	57
TYPHLOGOBBIUS CALIFURNIENSIS		-	-	-	-	-	-	-	-	5	-	-	-	-	-	5	-
GOBIIDAE, TYPE A		18	7	23	-	7	-	-	-	53	5	-	-	5	-	-	-
LYTHRYPHUS SP.		-	-	-	-	5	-	-	-	-	-	-	-	11	4	-	-
COTTIDAE, TYPE A		4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HIPPOGLOSSINA STOMATA		-	-	5	6	-	5	5	5	-	11	-	-	-	10	5	-
CITHARICHTHYS SPP.		11	4	-	-	14	-	5	14	-	-	-	-	5	8	-	-
PARALICHTHYS/XYSTHEURYS LICLEPIS		4	-	-	18	-	16	14	-	-	16	5	47	27	5	5	-
PLEURONICHTHYS VERTICALIS		7	-	5	12	-	20	22	5	-	10	-	-	26	8	5	-
HYPSOPSETTA GUTTULATA		-	-	5	6	-	5	-	5	-	-	-	-	8	16	5	-
SYMPHURUS ATRICAUDA		4	-	-	6	4	-	-	-	5	-	5	-	-	-	-	-
PISCES LARVAE, UNID.		4	-	14	12	7	10	44	14	5	10	11	15	11	-	-	-
PISCES YOLK SAC LARVAE		72	11	14	155	46	61	60	161	11	10	22	60	63	93	37	62
NUMBER OF INDIVIDUALS		377.	228.	448.	994.	911.	1415.	1976.	2172.	808.	459.	417.	259.	646.	541.	433.	326.
NUMBER OF SPECIES		15.	12.	15.	17.	17.	14.	15.	16.	15.	13.	8.	9.	14.	14.	11.	8.
AUKIGA NET NUMBER OF INDIVIDUALS/1000M**3																	
SPECIES NAME	REPLICATE:	STATION T-1				STATION T-2				STATION C-1				STATION C-2			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
ENGRAULIS MORDAX		219	109	241	178	786	806	713	955	45	358	367	138	137	351	486	533
GOBIESOX RHESODON		152	258	84	178	115	98	154	19	152	420	226	212	49	45	19	28
GOBIESUCIDAE, TYPE A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PARALABRAX, TYPE C		-	-	-	-	-	-	10	-	-	-	-	-	-	-	-	-
SERIPHUS POLITUS		438	616	344	800	29	29	-	-	71	502	508	249	20	9	9	37
MENTICIRRHUS UNDULATUS		-	-	-	10	-	-	-	-	-	-	-	-	-	18	-	-
GENYONEMUS LINEATUS		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PARACLINUS INTEGRIPINNIS		10	-	-	-	10	-	-	-	9	-	-	74	-	-	-	-
METROSTICHUS ROSTRATUS		-	-	28	-	48	29	10	-	18	9	28	-	-	27	9	9
CLINIDAE, TYPE A		124	99	26	49	48	98	67	49	232	493	659	230	10	144	103	168
HYPSOBLENNIUS SPP.		-	-	-	-	-	-	19	10	18	27	38	37	10	36	9	47
TYPHLOGOBBIUS CALIFURNIENSIS		-	-	-	-	-	-	-	-	27	-	-	18	-	-	-	-
GOBIIDAE, TYPE A		95	278	121	227	-	10	10	-	36	201	113	74	20	27	19	150
LEPIDOGOBBIUS LEPTIDUS		-	20	-	-	10	-	-	-	-	-	-	-	-	-	-	-
GILICHTHYS MIKABILIS		10	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LYTHRYPHUS SP.		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9
COTTIDAE, TYPE G		-	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AGONIDAE, UNID.		-	-	-	-	10	-	-	-	-	-	-	9	10	-	-	-
HIPPOGLOSSINA STOMATA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PARALICHTHYS/XYSTHEURYS LICLEPIS		-	-	-	-	10	10	-	-	9	-	-	-	18	9	-	-
PLEURONICHTHYS VERTICALIS		-	-	-	-	-	-	-	-	9	-	-	-	10	18	-	9
HYPSOPSETTA GUTTULATA		10	-	-	-	10	-	-	-	-	-	-	-	9	-	-	-
PISCES LARVAE, UNID.		-	10	28	20	-	10	19	-	55	19	-	-	10	18	19	19
PISCES YOLK SAC LARVAE		-	-	9	-	19	16	10	10	9	-	-	-	10	72	9	-
NUMBER OF INDIVIDUALS		1058.	1410.	883.	1462.	1075.	1130.	993.	1072.	635.	2045.	1958.	1041.	286.	801.	691.	1009.
NUMBER OF SPECIES		8.	9.	8.	7.	9.	11.	8.	7.	12.	8.	8.	9.	10.	14.	10.	10.

Table VI-33. Number of individuals collected in SONGS intake samples,  
28-29 September 1978.

NO INTAKE DATA

CIRCULATION  
PUMPS  
NOT  
OPERATING

Table VI-34. Fish egg concentrations for SONGS ichthyoplankton sampling program 31 October to 1 November 1978.

## NUMBER OF EGGS/1000 M\*\*3

STATION: NET TYPE	REPLICATE	T-1		T-2		C-1		C-2	
		ANCHOVY	TOTAL	ANCHOVY	TOTAL	ANCHOVY	TOTAL	ANCHOVY	TOTAL
MANTA	1	0	1624	0	2124	0	2993	0	2793
	2	0	2121	0	2188	0	2425	0	2112
	3	0	2163	0	2400	0	1657	0	2204
	4	0	1338	0	4662	0	3321	0	1683
BCNGO	1	0	1626	0	1659	0	2501	0	2498
	2	0	1673	0	1524	0	2703	0	1231
	3	0	1632	14	1865	0	2474	0	1158
	4	0	1761	0	2438	0	3154	0	3104
AURIGA	1	0	911	0	748	0	2120	0	325
	2	0	1158	0	146	0	2868	0	356
	3	0	917	0	388	0	1371	0	179
	4	0	1206	0	361	0	520	0	311

TIME OF DAY: INTAKE-PUMP REPLICATE	MORNING		AFTERNOON		SUNSET	
	ANCHOVY	TOTAL	ANCHOVY	TOTAL	ANCHOVY	TOTAL
1	0	273	0	415	0	607
2	0	351	0	221	0	581
3	0	300	0	364	0	894
4	0	194	0	2807	0	1213

TIME OF DAY: INTAKE-PUMP REPLICATE	BEFORE MIDNIGHT		AFTER MIDNIGHT		SUNRISE	
	ANCHOVY	TOTAL	ANCHOVY	TOTAL	ANCHOVY	TOTAL
1	0	1006	0	663	0	1904
2	0	687	0	472	0	1976
3	0	834	0	600	0	1444
4	0	811	0	1181	0	1440

Table VI-35. Number of individuals collected in SONGS offshore tows, 31 October to 1 November 1978.

MANTA NET NUMBER OF INDIVIDUALS/1000M\*\*3

SPECIES NAME	STATION T-1				STATION T-2				STATION C-1				STATION C-2			
	REPLICATE: 1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
ENGRAULIS MORDAX	69	18	53	17	116	87	12	75	51	-	38	19	70	180	165	213
ATHERINIDAE, UNID.	197	177	276	167	245	122	351	489	30	18	28	57	10	9	58	35
ATHERINIDAE, TYPE B	-	-	-	-	-	-	-	-	-	-	4	-	-	-	-	-
PARALABRAX, TYPE B	-	-	-	-	-	-	-	19	-	-	-	-	-	-	-	-
PARALABRAX, TYPE C	-	-	-	-	13	-	-	-	-	-	-	-	-	-	-	-
SERIPHUS POLIUS	-	-	-	-	-	-	-	-	-	-	9	-	-	-	-	-
MUGIL CEPHALUS	-	-	-	-	-	17	-	-	-	-	-	-	-	-	-	-
CLINIDAE, TYPE A	-	-	-	-	-	-	-	-	-	-	19	-	-	-	-	-
HYPSOBLENNIUS SPP.	39	35	21	-	90	69	35	188	40	27	28	19	50	28	10	62
GOBIIDAE, TYPE A	-	-	-	-	-	-	-	-	-	-	28	29	-	-	-	-
LEPIDOGGOBIUS LEPIDUS	-	-	-	-	-	-	-	-	-	-	-	10	-	-	-	-
PARALICHTHYS/XYSTREURYS LIOLEPIS	-	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HYPSOPSETTA GUTTULATA	-	9	-	-	-	-	-	-	-	-	-	-	-	9	-	-
PISCES LARVAE, UNID.	-	-	-	17	-	-	-	56	10	-	-	-	-	-	-	-
PISCES YOLK SAC LARVAE	-	-	-	-	-	17	-	-	-	-	-	-	-	-	-	-
NUMBER OF INDIVIDUALS	305.	248.	350.	201.	464.	312.	398.	827.	131.	45.	159.	134.	130.	226.	233.	370.
NUMBER OF SPECIES	5.	5.	3.	3.	4.	5.	3.	5.	4.	2.	7.	5.	3.	4.	3.	3.

BUNGO NET NUMBER OF INDIVIDUALS/1000M\*\*3

SPECIES NAME	STATION T-1				STATION T-2				STATION C-1				STATION C-2			
	REPLICATE: 1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
ENGRAULIS MORDAX	77	132	172	79	231	265	171	166	143	166	55	32	171	458	309	71
TRIPHOTURUS MEXICANUS	13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GOBIESOX RHESSOODON	13	-	-	-	-	-	-	-	10	-	44	-	20	-	88	-
GOBIESUCIDAE, TYPE A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11	-
ATHERINIDAE, UNID.	26	-	-	-	-	-	-	-	-	10	11	-	10	-	-	-
PARALABRAX, TYPE C	-	-	-	-	13	-	-	-	10	-	-	-	-	-	-	-
SCIAENIDAE, TYPE C	13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HETEROSTICHUS ROSTRATUS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	22	-
CLINIDAE, TYPE A	-	-	-	10	-	-	-	-	20	21	120	32	10	-	55	10
HYPSOBLENNIUS SPP.	52	20	30	10	13	13	-	-	10	10	11	11	60	22	11	-
TYPHLOGGOBIUS CALIFORNENSIS	-	-	-	-	-	-	-	-	10	-	-	-	-	-	-	-
GOBIIDAE, TYPE A	13	-	-	-	-	-	-	-	10	11	21	-	-	-	-	-
PARALICHTHYS/XYSTREURYS LIOLEPIS	-	-	-	-	-	13	-	-	-	-	-	-	-	11	-	-
HYPSOPSETTA GUTTULATA	-	-	-	-	-	-	-	10	-	10	-	-	-	11	11	-
PISCES LARVAE, UNID.	-	-	-	-	-	-	-	-	10	-	11	11	-	11	11	-
PISCES YOLK SAC LARVAE	-	-	30	-	-	13	14	10	-	-	-	11	10	11	-	10
NUMBER OF INDIVIDUALS	207.	152.	232.	99.	257.	304.	185.	186.	213.	227.	263.	118.	281.	513.	518.	91.
NUMBER OF SPECIES	7.	2.	3.	3.	3.	4.	2.	3.	7.	6.	7.	6.	6.	5.	8.	3.

AURIGA NET NUMBER OF INDIVIDUALS/1000M\*\*3

SPECIES NAME	STATION T-1				STATION T-2				STATION C-1				STATION C-2			
	REPLICATE: 1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
ENGRAULIS MORDAX	86	97	289	98	266	490	1189	283	60	224	247	239	907	1503	1066	1465
GOBIESOX RHESSOODON	-	189	115	63	-	353	328	-	60	46	29	594	18	1175	259	185
ATHERINIDAE, UNID.	14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SYNGNATHUS SP.	5	-	-	-	-	-	-	-	-	-	-	-	-	7	-	-
PARALABRAX, TYPE C	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TRACHURUS SYMMETRICUS	-	6	-	-	8	-	-	-	-	-	-	-	-	-	-	-
SERIPHUS POLIUS	5	86	26	63	-	-	12	-	12	26	10	17	-	-	-	-
GONYONEMUS LINEATUS	-	-	-	-	-	10	-	-	-	-	-	41	6	207	115	92
PARACLINUS INTEGRIPINNIS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6
HETEROSTICHUS ROSTRATUS	-	52	32	-	-	63	24	10	-	-	5	12	-	14	5	-
CLINIDAE, TYPE A	-	149	45	49	-	-	49	-	12	53	34	25	6	43	10	12
CLINIDAE, TYPE B	-	-	-	-	-	-	-	-	-	-	-	-	-	7	-	-
HYPSOBLENNIUS SPP.	5	-	-	-	8	-	-	-	-	-	-	-	-	14	-	12
GOBIIDAE, TYPE A	5	63	32	21	-	10	73	-	42	99	39	21	18	100	20	12
GOBIIDAE, TYPE D	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	-
LYTHRYPUS SP.	-	-	-	-	-	-	12	-	-	-	-	-	-	-	-	-
CGITIDAE, TYPE G	-	-	-	-	-	-	-	-	-	-	-	-	-	7	5	-
PARALICHTHYS CALIFORNICUS	-	-	-	-	-	-	-	-	-	-	-	-	-	7	-	-
PARALICHTHYS/XYSTREURYS LIOLEPIS	-	-	-	-	8	-	-	20	-	-	-	-	-	14	40	52
PLEURONICHTHYS RITTERI	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12
HYPSOPSETTA GUTTULATA	-	-	-	-	8	-	-	20	-	-	-	-	-	-	5	-
PISCES LARVAE, UNID.	-	-	6	21	25	-	376	20	-	7	-	37	-	14	50	40
PISCES YOLK SAC LARVAE	-	-	-	-	25	-	-	-	-	-	-	-	-	-	-	-
NUMBER OF INDIVIDUALS	120.	636.	545.	315.	348.	906.	2063.	353.	186.	455.	364.	986.	961.	3105.	1585.	1888.
NUMBER OF SPECIES	6.	6.	7.	6.	7.	5.	8.	5.	5.	6.	6.	8.	6.	12.	11.	10.

Table VI-36. Number of individuals collected in SONGS intake samples,  
31 October to 1 November 1978.

INTAKE SAMPLE NUMBER OF INDIVIDUALS/1000M±3													
SPECIES NAME	REPLICATE:	1	2	3	4	5	6	7	8	9	10	11	12
ENGRAULIS MORDAX					10		20			11		10	71
GOBIESOX RHESSODON							30		10			79	81
ATHERINIDAE, UNID.													10
PARALABRAX, TYPE C							10						
SERIPHUS POLITUS												10	
METEROSTICHUS ROSTRATUS						20		20					10
CLINIDAE, TYPE A						40	40		20		10	10	91
HYPSOBLENNIUS SPP.		147	93	78	41	20	40	30			10	30	10
GOBIIDAE, UNID.												10	
GOBIIDAE, TYPE A					10			10					10
HYP SOPSETTA GUTTULATA													10
PISCES LARVAE, UNID.													
PISCES YOLK SAC LARVAE													
NUMBER OF INDIVIDUALS		147.	93.	78.	61.	60.	160.	60.	30.	11.	20.	149.	293.
NUMBER OF SPECIES		1.	1.	1.	3.	2.	6.	3.	2.	1.	2.	6.	8.
SPECIES NAME	REPLICATE:	13	14	15	16	17	18	19	20	21	22	23	24
ENGRAULIS MORDAX		92	42	70	81	71	40			90	30	61	62
GOBIESOX RHESSODON							10	20	20			10	
ATHERINIDAE, UNID.													
PARALABRAX, TYPE C													
SERIPHUS POLITUS		82	32	10	10		30	10	10				
METEROSTICHUS ROSTRATUS									10				
CLINIDAE, TYPE A				10		10	10	30	40	10	10		
HYP SOBLENNIUS SPP.		21		10		20	30			10	20	10	62
GOBIIDAE, UNID.													
GOBIIDAE, TYPE A		41			10	10		20		10			
HYP SOPSETTA GUTTULATA		10											
PISCES LARVAE, UNID.													
PISCES YOLK SAC LARVAE					10	10		10					
NUMBER OF INDIVIDUALS		246.	74.	100.	111.	121.	120.	90.	80.	120.	60.	81.	145.
NUMBER OF SPECIES		5.	2.	4.	4.	5.	5.	5.	4.	4.	3.	3.	3.

Table VI-37. Fish egg concentrations for SONGS ichthyoplankton sampling program 29-30 November 1978.

## NUMBER OF EGGS/1000 M\*\*3

STATION: NET TYPE	REPLICATE	T-1		T-2		C-1		C-2	
		ANCHOVY	TOTAL	ANCHOVY	TOTAL	ANCHOVY	TOTAL	ANCHOVY	TOTAL
MANTA	1	10	2503	0	2272	10	1616	0	1240
	2	0	2324	0	3028	0	1614	0	1688
	3	0	2594	8	2426	0	1488	0	1313
	4	0	2234	0	2572	0	1085	0	1353
BONGO	1	0	1131	0	1951	0	1153	9	1205
	2	0	1703	0	1397	0	1332	8	1392
	3	0	1315	0	1787	0	1236	0	1011
	4	0	1518	0	1401	0	1223	0	1439
AURIGA	1	0	717	0	623	0	744	0	1319
	2	0	427	0	524	0	652	0	1030
	3	0	502	0	540	0	577	0	461
	4	0	689	0	443	0	487	0	534

TIME OF DAY: INTAKE-PUMP REPLICATE	MORNING		AFTERNOON		SUNSET	
	ANCHOVY	TOTAL	ANCHOVY	TOTAL	ANCHOVY	TOTAL
1	0	613	0	563	0	617
2	0	691	0	549	0	947
3	0	784	0	417	0	2481
4	0	922	0	397	0	2053

TIME OF DAY: INTAKE-PUMP REPLICATE	BEFORE MIDNIGHT		AFTER MIDNIGHT		SUNRISE	
	ANCHOVY	TOTAL	ANCHOVY	TOTAL	ANCHOVY	TOTAL
1	0	1461	0	2407	0	1446
2	0	1179	0	933	0	1308
3	0	991	0	1689	10	1348
4	0	1351	0	1224	0	1014

Table VI-38. Number of individuals collected in SONGS offshore tows, 29-30 November 1978.

MANTA NET NUMBER OF INDIVIDUALS/1000M <sup>3</sup>																		
SPECIES NAME	STATION T-1				STATION T-2				STATION C-1				STATION C-2					
	REPLICATE:	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
ENGRAULIS MORDAX	41	21	10	47	176	76	8	25	21	21	44	105	140	67	90	21		
ATHERINIDAE, UNID.	458	342	232	151	42	105	102	236	10	21	35	23	10	-	30	11		
LEUESTHIS TENUIS	-	-	68	-	-	-	-	-	-	-	73	-	-	-	-	-		
ATHERINIDAE, TYPE H	234	93	-	170	75	86	85	84	73	-	88	187	10	84	10	95		
SYNGNATHUS SP.	-	-	10	-	-	-	-	-	-	-	-	-	-	-	-	-		
GENYONEMUS LINEATUS	-	-	-	-	8	-	-	-	-	-	-	-	-	-	-	-		
MUGIL CEPHALUS	-	-	10	-	-	-	-	-	-	-	-	-	-	-	-	-		
CLINIDAE, TYPE A	-	-	-	-	-	-	-	-	-	-	-	-	-	12	-	-		
HYPISOLENNIUS SPP.	20	10	10	19	8	38	8	17	10	-	9	23	20	25	30	53		
Gobiidae, TYPE A	-	-	-	9	-	-	-	-	-	42	42	9	58	-	-	-		
Gobiidae, TYPE D	-	-	-	-	-	-	8	-	-	-	-	-	-	-	-	-		
GIRELLA NIGRICANS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10		
PARALICHTHYS XYSTREUYS LICLEPIS10	-	73	-	32	34	29	59	8	-	-	9	12	40	34	10	-		
HYPSPSETTA GUTTULATA	10	-	29	19	17	10	17	25	-	-	-	12	20	8	-	32		
PISCES LARVAE, UNID.	-	-	19	9	-	-	8	-	10	-	-	-	-	-	8	20		
PISCES YOLK SAC LARVAE	-	21	-	9	-	10	-	-	-	-	-	-	-	-	-	-		
NUMBER OF INDIVIDUALS	773.	560.	388.	471.	360.	354.	295.	395.	166.	157.	194.	432.	280.	224.	200.	212.		
NUMBER OF SPECIES	6.	6.	8.	9.	7.	7.	8.	8.	6.	4.	6.	8.	6.	6.	7.	5.		
ROBBER NET NUMBER OF INDIVIDUALS/1000M <sup>3</sup>																		
SPECIES NAME	STATION T-1				STATION T-2				STATION C-1				STATION C-2					
	REPLICATE:	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
ENGRAULIS MORDAX	162	222	246	204	286	157	117	222	223	110	103	190	523	437	604	637		
ATHERINIDAE, UNID.	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
ATHERINIDAE, TYPE H	-	-	11	-	-	-	-	-	-	-	-	-	-	-	-	-		
TRACHURUS SYMMETRICUS	-	-	-	-	-	-	-	8	-	-	-	-	-	-	-	-		
GENYONEMUS LINEATUS	9	-	21	10	49	-	36	25	-	-	-	-	-	8	23	10		
PARALICHTHYS INTEGRIPINNIS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12		
CLINIDAE, TYPE A	-	10	-	-	-	9	-	-	-	-	-	63	-	-	12	-		
CLINIDAE, TYPE H	-	-	-	-	-	-	-	-	-	-	9	-	-	-	-	-		
HYPISOLENNIUS SPP.	18	-	-	19	-	9	-	-	-	-	-	-	-	-	12	-		
Gobiidae, TYPE A	-	-	11	-	20	-	-	-	-	9	37	32	9	-	35	-		
Gobiidae, TYPE D	-	-	-	-	10	-	-	-	-	9	-	-	-	-	-	-		
SEBASTES, TYPE 3	-	-	-	10	10	-	-	8	-	-	-	-	-	-	12	-		
SEBASTES, TYPE 11	-	-	-	-	-	-	-	-	-	-	-	-	-	8	-	-		
PARALICHTHYS CALIFORNICUS	-	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
CITHARICHTHYS SPP.	18	10	-	10	10	9	-	16	9	-	9	-	18	-	-	-		
PARALICHTHYS XYSTREUYS LICLEPIS45	48	11	49	30	74	36	91	28	27	28	42	106	64	58	103			
HYPSPSETTA GUTTULATA	27	-	11	-	39	37	-	8	-	-	11	9	16	12	31			
PISCES LARVAE, UNID.	9	10	-	10	-	-	-	19	-	4	-	9	8	23	-			
PISCES YOLK SAC LARVAE	9	10	-	49	10	18	-	41	9	-	-	-	16	12	-			
NUMBER OF INDIVIDUALS	306.	320.	311.	361.	464.	304.	198.	419.	288.	155.	195.	338.	674.	557.	815.	781.		
NUMBER OF SPECIES	9.	7.	6.	8.	9.	6.	4.	8.	5.	4.	6.	5.	6.	7.	11.	4.		
AURIGA NET NUMBER OF INDIVIDUALS/1000M <sup>3</sup>																		
SPECIES NAME	STATION T-1				STATION T-2				STATION C-1				STATION C-2					
	REPLICATE:	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
ENGRAULIS MORDAX	47	109	61	68	137	490	207	340	377	336	267	207	1801	871	808	1111		
GORIESOX RHESODON	264	281	328	247	25	63	192	94	24	20	24	4	5	-	-	5		
ATHERINIDAE, UNID.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
SERIPHUS POLITUS	5	-	-	-	-	-	-	-	10	20	10	9	-	-	-	-		
GENYONEMUS LINEATUS	37	36	47	24	59	238	141	123	29	76	38	13	30	15	24	4		
PETROSTICHUS ROSTRATUS	127	141	117	242	103	29	50	20	10	5	19	4	5	-	-	-		
CLINIDAE, TYPE A	332	1052	1576	1857	93	311	594	419	5	-	-	-	-	5	-	-		
CLINIDAE, TYPE H	-	-	-	-	15	53	25	69	-	-	-	-	-	-	5	-		
CLINIDAE, TYPE C	-	-	-	-	-	-	5	-	10	5	5	-	10	5	-	-		
HYPISOLENNIUS SPP.	5	16	-	5	5	-	5	5	-	-	-	-	-	-	-	-		
Gobiidae, TYPE A	74	73	174	150	78	233	343	365	229	137	81	47	30	20	24	37		
LEPIDOGGIUS LEPIDUS	-	-	-	-	-	-	-	-	-	-	-	-	-	4	20	5	10	5
Gobiidae, TYPE D	-	-	-	-	5	-	-	-	-	-	-	-	-	-	-	-	-	
Gobiidae, TYPE G	-	-	-	-	-	15	-	-	-	-	-	-	-	-	-	-	-	
GILLICHTHYS MIRABILIS	-	-	-	-	-	-	5	-	-	-	-	-	-	-	-	-	-	
SEBASTES, TYPE 3	-	-	-	-	-	-	-	-	33	10	-	26	30	10	38	47		
SEBASTES, TYPE 5	-	-	-	-	-	-	-	-	-	-	-	-	5	5	-	5		
SEBASTES, TYPE 11	-	-	-	-	-	-	-	-	-	-	-	5	4	-	5	10		
COTTIDAE, TYPE 7	-	5	-	-	-	-	10	-	-	-	-	-	-	-	-	-		
PARALICHTHYS CALIFORNICUS	-	-	-	5	5	-	-	-	-	-	-	-	-	-	-	-		
CITHARICHTHYS SPP.	-	-	-	-	-	-	-	-	-	-	-	-	-	5	-	10		
PARALICHTHYS XYSTREUYS LICLEPIS 5	-	-	5	5	-	15	5	-	45	20	-	13	84	119	81	70		
HYPSPSETTA GUTTULATA	5	16	14	10	-	10	5	-	10	5	-	5	5	10	10	5		
SYMPHURUS ATRICAUDA	-	-	-	-	-	-	-	-	5	-	-	-	-	-	-	-		
PISCES LARVAE, UNID.	11	21	-	126	74	24	10	25	105	20	5	4	45	5	-	23		
PISCES YOLK SAC LARVAE	-	5	-	-	-	-	-	-	-	-	-	-	-	5	-	-		
NUMBER OF INDIVIDUALS	912.	1755.	2322.	2719.	599.	1481.	1592.	1460.	890.	649.	459.	335.	2065.	1080.	1025.	1322.		
NUMBER OF SPECIES	11.	11.	8.	11.	11.	11.	13.	9.	13.	10.	10.	11.	13.	13.	11.	11.		

Table VI-39. Number of individuals collected in SONGS intake samples, 29-30 November 1978.

INTAKE SAMPLE NUMBER OF INDIVIDUALS/1000M**3													
SPECIES NAME	MORNING:				AFTERNOON:				SUNSET:				
	REPLICATE:	1	2	3	4	1	2	3	4	1	2	3	4
ENGRAULIS MORDAX		20	-	39	29	39	30	9	-	21	11	-	21
GOBIESOX RHESSODON		-	-	-	20	10	20	36	63	62	32	11	32
GENYONEMUS LINEATUS		10	-	-	29	48	10	36	-	10	-	-	-
CLINIDAE, UNID.		-	-	-	-	-	-	27	-	-	-	-	-
PARACLINUS INTEGRIPINNIS		-	-	-	-	-	-	-	-	-	-	-	-
HETEROSTICHUS ROSTRATUS		-	-	-	-	-	60	27	63	-	-	-	53
CLINIDAE, TYPE A		-	-	-	29	30	9	42	278	128	120	120	286
CLINIDAE, TYPE B		-	-	-	-	-	-	-	-	-	-	-	-
HYPSOBLENNIUS SPP.		109	39	59	10	19	-	-	31	-	21	-	32
GOBIIDAE, TYPE A		-	-	-	-	19	10	9	10	-	-	11	-
COTTIDAE, TYPE 7		-	-	-	-	-	-	-	-	-	-	-	11
GIRELLA NIGRICANS		-	-	-	-	-	-	-	-	-	-	-	-
CITHARICHTHYS SPP.		-	-	-	-	-	-	9	-	-	-	-	-
PARALICHTHYS/XYSTREURYS LIOLEPIS		-	49	29	10	39	20	82	52	-	-	-	-
HYP SOPSETTA GUTTULATA		79	29	39	69	107	60	118	10	10	-	-	-
PLEURONICHTHYS SP.		-	-	-	-	-	-	-	-	-	-	-	-
PISCES LARVAE, UNID.		20	-	-	10	-	30	54	52	51	11	109	-
PISCES YOLK SAC LARVAE		20	39	29	-	-	20	27	-	10	-	-	-
NUMBER OF INDIVIDUALS		258.	156.	195.	177.	310.	290.	443.	323.	442.	203.	251.	435.
NUMBER OF SPECIES		6.	4.	5.	7.	8.	10.	12.	8.	7.	5.	4.	6.
EVENING: NIGHT: SUNRISE:													
SPECIES NAME	EVENING:				NIGHT:				SUNRISE:				
	REPLICATE:	1	2	3	4	1	2	3	4	1	2	3	4
ENGRAULIS MORDAX		199	175	73	157	-	41	41	61	151	21	10	64
GOBIESOX RHESSODON		10	-	-	31	-	10	-	-	30	52	62	139
GENYONEMUS LINEATUS		-	-	10	-	-	-	10	10	-	-	-	21
CLINIDAE, UNID.		-	-	-	-	-	-	-	-	-	-	-	-
PARACLINUS INTEGRIPINNIS		10	-	-	-	10	-	-	-	-	-	-	-
HETEROSTICHUS ROSTRATUS		20	-	-	-	-	-	-	-	-	-	-	32
CLINIDAE, TYPE A		119	109	115	188	10	41	41	153	110	167	82	107
CLINIDAE, TYPE B		-	-	-	-	-	-	-	10	-	-	-	-
HYP SOBLENNIUS SPP.		-	11	10	-	-	-	-	-	30	21	-	-
GOBIIDAE, TYPE A		40	-	-	-	-	-	-	-	20	42	-	43
COTTIDAE, TYPE 7		-	-	10	-	10	-	-	-	-	-	-	-
GIRELLA NIGRICANS		-	11	-	-	-	-	-	-	-	-	-	-
CITHARICHTHYS SPP.		-	-	-	-	-	-	-	-	-	-	-	-
PARALICHTHYS/XYSTREURYS LIOLEPIS		20	-	-	-	10	10	21	-	20	10	-	-
HYP SOPSETTA GUTTULATA		10	-	-	10	-	21	-	-	-	10	10	11
PLEURONICHTHYS SP.		-	-	-	-	10	-	-	-	-	-	-	-
PISCES LARVAE, UNID.		89	55	271	115	80	-	72	-	141	73	62	-
PISCES YOLK SAC LARVAE		-	-	-	-	-	-	-	-	-	-	-	-
NUMBER OF INDIVIDUALS		517.	361.	499.	501.	130.	123.	185.	234.	502.	396.	226.	417.
NUMBER OF SPECIES		9.	5.	7.	5.	6.	5.	5.	4.	7.	8.	5.	7.



Table VI-40. Fish egg concentrations for SONGS ichthyoplankton sampling program 27-28 December 1978.

		NUMBER OF EGGS/1000 M**3							
STATION: NET TYPE	REPLICATE	T-1		T-2		C-1		C-2	
		ANCHOVY	TOTAL	ANCHOVY	TOTAL	ANCHOVY	TOTAL	ANCHOVY	TOTAL
MANTA	1	115	3452	131	2660	80	2109	1072	3193
	2	79	2746	210	2958	110	2346	956	3049
	3	71	3114	188	2338	113	3091	543	2616
	4	63	4246	189	3950	115	2525	1674	4541
BOUNGO	1	82	2197	125	2123	147	1583	1627	3522
	2	19	2467	170	2887	101	1814	663	2891
	3	64	2745	244	2508	123	2275	497	2965
	4	71	2314	178	2932	71	1720	1377	3679
AURIGA	1	10	1471	71	1728	81	1097	1509	2670
	2	18	1046	37	996	18	673	814	1840
	3	21	1404	35	841	53	2091	649	1886
	4	0	1703	17	771	0	1182	815	2073

TIME OF DAY: INTAKE-PUMP REPLICATE	MORNING		AFTERNOON		SUNSET	
	ANCHOVY	TOTAL	ANCHOVY	TOTAL	ANCHOVY	TOTAL
1	18	1720	62	851	0	903
2	34	1263	44	1050	94	889
3	52	722	30	631	31	920
4	0	542	15	1109	17	646

TIME OF DAY: INTAKE-PUMP REPLICATE	BEFORE MIDNIGHT		AFTER MIDNIGHT		SUNRISE	
	ANCHOVY	TOTAL	ANCHOVY	TOTAL	ANCHOVY	TOTAL
1	70	1993	69	1611	17	1041
2	52	1745	17	1671	17	1241
3	70	1362	51	909	17	2002
4	53	1615	0	1485	17	1944

Table VI-41. Number of individuals collected in SONGS offshore tows, 27-28 December 1978.

MANTA NET NUMBER OF INDIVIDUALS/1000M\*\*3

SPECIES NAME	REPLICATE:	STATION T-1				STATION T-2				STATION C-1				STATION C-2			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
ENGRAULIS MORDAX		1567	159	467	1444	3715	1622	1677	2039	552	614	690	519	2029	1019	1804	800
ATHERINIDAE, UNID.		96	183	184	95	25	75	68	144	18	55	23	87	31	71	87	15
ATHERINIDAE, TYPE R		19	16	-	16	-	8	23	76	98	8	53	29	15	8	-	-
SYNGNATHUS SP.		-	-	-	-	-	-	-	-	-	-	-	-	15	-	-	-
GONYONEMUS LINEATUS		106	71	120	258	-	23	30	45	27	39	8	7	23	31	14	22
MYSOBLENNIUS SPP.		-	16	7	-	16	-	8	-	-	8	-	14	15	39	29	7
GOBIIDAE, UNID.		-	-	-	-	-	-	-	-	-	-	-	-	8	-	-	-
GOBIIDAE, TYPE A		10	48	35	16	-	-	-	-	-	-	-	-	-	-	-	-
LEPTOCOTTUS ARMATUS		-	-	7	-	-	-	-	-	-	-	-	-	-	-	-	-
PARALICHTHYS CALIFORNICUS		-	-	-	-	16	8	15	-	-	-	-	-	-	-	-	-
CITHARICHTHYS SPP.		10	-	7	24	25	8	15	23	-	-	-	10	15	-	-	7
PARALICHTHYS/XYSTREURYS LICLEPTIS		16	21	32	-	8	8	8	8	9	16	-	14	31	16	14	22
HYPSOPSETTA GUTTILATA		58	24	28	24	8	30	60	30	18	8	-	8	-	14	7	-
PAROPHRY VETULUS		-	-	-	-	-	-	15	-	9	-	-	-	-	-	7	-
PISCES LARVAE, UNID.		10	16	14	8	-	-	15	-	9	-	-	8	7	16	-	-
PISCES YOLK SAC LARVAE		-	32	21	-	-	-	30	38	-	8	30	7	38	-	7	-
NUMBER OF INDIVIDUALS		1914	581	911	1897	3805	1774	1949	2403	731	754	812	698	2228	1200	1976	880
NUMBER OF SPECIES		9	10	11	9	6	7	11	8	7	8	6	9	11	7	8	7

HONGO NET NUMBER OF INDIVIDUALS/1000M\*\*3

SPECIES NAME	REPLICATE:	STATION T-1				STATION T-2				STATION C-1				STATION C-2			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
ENGRAULIS MORDAX		2485	2294	2616	3481	5880	2556	6072	5204	1709	1956	4453	2691	3561	6216	6272	4330
GCHIESOX RHESODON		-	-	-	-	-	-	-	-	-	-	-	-	-	9	-	-
ATHERINIDAE, UNID.		-	10	-	-	-	-	-	-	10	-	8	-	-	-	-	-
TRACHURUS SYMMETRICUS		-	-	-	-	-	-	-	-	-	-	8	-	-	-	-	-
GONYONEMUS LINEATUS		62	58	276	177	134	68	91	51	10	84	90	24	55	156	109	99
PARACLINUS INTEGRIPINNIS		-	-	-	-	-	-	-	-	10	-	-	-	-	-	-	-
METEROSTICHTHUS ROSTRATUS		-	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CLINIDAE, TYPE A		-	-	-	9	-	-	-	-	-	-	-	-	-	-	-	-
MYSOBLENNIUS SPP.		-	10	-	9	-	-	-	-	10	-	-	16	-	-	-	8
GOBIIDAE, TYPE A		-	48	18	-	-	-	-	-	8	-	25	8	-	-	8	-
LEPTOCOTTUS LEPTIUS		10	10	-	-	-	-	-	-	10	-	8	-	-	-	-	-
GOBIIDAE, TYPE D		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SEBASTES MELANOPS		-	-	-	-	8	-	-	-	-	-	-	-	-	-	-	-
SEBASTES, TYPE 7		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8
SEBASTES, TYPE 3		-	-	-	-	-	-	-	-	-	-	-	-	24	17	-	-
SEBASTES, TYPE 4		-	-	-	-	8	-	-	-	-	-	-	-	-	-	-	-
SEBASTES, TYPE 5		-	-	-	-	-	-	-	-	-	-	-	8	-	-	8	-
SEBASTES, TYPE 11		-	-	-	-	-	8	-	-	-	-	16	8	9	8	-	-
SEBASTES, TYPE 19		-	-	-	-	-	-	-	-	-	-	-	8	-	-	-	8
SEBASTES, TYPE 20		-	-	-	-	-	-	8	-	-	-	-	-	-	-	-	-
ZANIOLEPIS SP.		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8
CITHARICHTHYS SORDIUS		-	-	-	9	9	8	-	-	-	-	-	-	8	-	-	-
PARALICHTHYS CALIFORNICUS		-	-	-	9	9	8	34	-	-	-	-	-	-	-	-	-
CITHARICHTHYS SPP.		51	19	-	18	9	25	53	25	-	8	-	16	-	17	23	23
PARALICHTHYS/XYSTREURYS LICLEPTIS		21	38	37	18	45	17	53	-	52	17	8	8	24	43	62	8
PLEURONICHTHYS RITTERI		-	-	-	-	-	-	-	-	-	-	-	-	8	-	-	-
PLEURONICHTHYS VERTICALIS		10	10	-	-	-	-	8	-	-	8	-	-	-	-	-	-
HYPSOPSETTA GUTTILATA		21	-	-	-	-	-	-	-	10	-	16	24	16	9	16	-
PISCES LARVAE, UNID.		-	10	-	-	-	-	8	-	-	17	8	16	16	17	8	8
PISCES YOLK SAC LARVAE		10	10	-	9	9	17	8	17	-	8	16	16	32	26	39	23
NUMBER OF INDIVIDUALS		2670	2527	2947	3721	4095	2707	3293	3347	1821	2098	4616	2843	3788	6499	6569	4507
NUMBER OF SPECIES		8	12	4	7	7	8	7	7	8	7	8	11	12	10	12	8

AURIGA NET NUMBER OF INDIVIDUALS/1000M\*\*3

SPECIES NAME	REPLICATE:	STATION T-1				STATION T-2				STATION C-1				STATION C-2			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
ENGRAULIS MORDAX		1098	1348	1205	1430	2716	2628	1691	364	450	1005	659	1367	387	764	1058	982
GCHIESOX RHESODON		38	18	63	-	-	-	-	-	-	9	9	9	-	10	-	10
ATHERINIDAE, UNID.		-	-	-	-	-	-	-	-	-	-	-	26	-	-	-	-
GONYONEMUS LINEATUS		582	231	1119	346	142	166	69	34	333	287	249	132	116	30	90	39
METEROSTICHTHUS ROSTRATUS		-	9	21	-	-	28	35	513	9	72	9	9	-	10	10	20
CLINIDAE, TYPE A		124	80	106	46	9	-	9	-	18	18	36	26	-	-	-	10
CLINIDAE, TYPE B		-	-	-	-	-	-	-	-	-	-	9	26	-	-	-	-
CLINIDAE, TYPE C		-	-	-	-	-	-	-	-	-	-	27	-	-	-	-	-
GOBIIDAE, TYPE A		172	44	201	9	-	-	-	-	135	359	347	97	-	10	-	59
LEPTOCOTTUS LEPTIUS		-	-	-	9	-	-	-	-	-	-	-	-	-	-	-	-
GOBIIDAE, TYPE D		-	-	11	-	-	-	-	-	-	-	-	-	-	-	-	-
SEBASTES, TYPE 18		-	-	-	-	-	9	-	-	-	-	-	-	-	-	-	-
COTTIDAE, UNID.		-	-	-	-	-	-	-	-	9	-	-	-	-	-	-	-
ZANIOLEPIS SP.		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10
CITHARICHTHYS SPP.		-	-	-	9	9	9	9	-	9	-	-	-	-	10	20	20
PARALICHTHYS/XYSTREURYS LICLEPTIS		9	-	9	-	18	-	8	-	-	-	-	-	-	10	-	-
PLEURONICHTHYS VERTICALIS		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10
HYPSOPSETTA GUTTILATA		-	9	21	9	-	-	-	-	-	-	9	-	-	-	-	10
PISCES LARVAE, UNID.		-	62	42	18	-	9	-	-	45	18	-	62	29	30	10	-
PISCES YOLK SAC LARVAE		-	9	-	-	53	28	17	-	9	-	-	-	10	-	20	10
NUMBER OF INDIVIDUALS		2014	1819	2787	1885	2929	2895	1830	719	1008	1813	1318	1763	542	864	1238	1160
NUMBER OF SPECIES		5	10	9	9	5	8	6	4	8	10	7	10	4	7	9	9

Table VI-42. Number of individuals collected in SONGS intake samples, 27-28 December 1978.

INTAKE SAMPLE NUMBER OF INDIVIDUALS/1000M <sup>3</sup>													
SPECIES NAME	MORNING:				AFTERNOON:				SUNSET:				
	REPLICATE:	1	2	3	4	1	2	3	4	1	2	3	4
ENGRAULIS MORDAX	603	512	412	102	1424	607	436	192	109	47	62	133	
GOBIESOX RHESSODON					15								17
CHILARA TAYLORI	18												
ATHERINIDAE, UNID.													
GENYONEMUS LINEATUS	106	51	17	17	310	89	30	74	109	406	94	149	
METEROSTICHUS ROSTRATUS	18		17		15								17
CLINIDAE, TYPE A	71	85	52	17	31	15	15	15				31	17
HYPSOBLENNIUS SPP.								15					
GOBIIDAE, TYPE A	18				15	30	30	44	93			62	17
LEPIDOGOBIOUS LEPTOUS					15				16				17
COTTIDAE, TYPE 7					15								
CITHARICHTHYS SPP.					15								
PARALICHTHYS/XYSTREURYS LIGLEPIS		17	17			59	15						
PLEURONICHTHYS VERTICALIS					15								
HYPSOPSETTA GUTTULATA								15	16	16	16		
PAROPHRYS VETULUS													
PISCES LARVAE, UNID.		17						30				31	
PISCES YOLK SAC LARVAE	35					30			16	16	16		
NUMBER OF INDIVIDUALS	869.	682.	515.	136.	1870.	830.	526.	385.	359.	485.	312.	367.	
NUMBER OF SPECIES	7.	5.	5.	3.	10.	6.	5.	7.	6.	4.	7.	7.	
EVENING: NIGHT: SUNRISE:													
SPECIES NAME	REPLICATE:	1	2	3	4	1	2	3	4	1	2	3	4
ENGRAULIS MORDAX	1731	1693	2253	2378	1422	1413	669	1796	802	420	679	473	
GOBIESOX RHESSODON			17	18	17	17							
CHILARA TAYLORI	17												
ATHERINIDAE, UNID.				18									
GENYONEMUS LINEATUS	175	122	210	177	189	86	69	242	51	52	119	85	
METEROSTICHUS ROSTRATUS			17	71			34	17	102	35	51		
CLINIDAE, TYPE A		17	35	18	86	103	34		205	70	51	34	
HYPSOBLENNIUS SPP.	17												
GOBIIDAE, TYPE A		17	35	71	17	17	69	52	68		17		
LEPIDOGOBIOUS LEPTOUS				18				17					
COTTIDAE, TYPE 7													
CITHARICHTHYS SPP.			17					17					
PARALICHTHYS/XYSTREURYS LIGLEPIS		35	35	35		17		17					
PLEURONICHTHYS VERTICALIS													
HYPSOPSETTA GUTTULATA	17	17	17		17	69		17					
PAROPHRYS VETULUS							17						
PISCES LARVAE, UNID.		17	52	93	34		34	86	17		34	51	
PISCES YOLK SAC LARVAE	52	52	17	35		34		17		17			
NUMBER OF INDIVIDUALS	2009.	1970.	2705.	2892.	1782.	1756.	926.	2278.	1245.	594.	951.	643.	
NUMBER OF SPECIES	6.	8.	11.	11.	7.	8.	7.	10.	6.	5.	6.	4.	

Table VI-43. Fish egg concentrations for SONGS ichthyoplankton sampling program 29-30 January 1979.

		NUMBER OF EGGS/1000 M**3							
STATION: NET TYPE	REPLICATE	T-1		T-2		C-1		C-2	
		ANCHOVY	TOTAL	ANCHOVY	TOTAL	ANCHOVY	TOTAL	ANCHOVY	TOTAL
MANTA	1	2270	15735	3269	17380	1182	5257	3796	16406
	2	1853	11687	1943	17262	1174	5558	3569	18947
	3	1455	11959	3216	21411	1614	6424	1792	11950
	4	1862	14420	3249	17796	1016	5235	323	6491
BCNGO	1	1679	12872	3351	22485	944	4150	4702	25228
	2	2078	15935	3253	20829	1132	5300	2501	24816
	3	1767	14481	4885	30950	1244	4877	1553	11520
	4	2725	32559	2099	17118	1015	4628	815	12007
AURIGA	1	421	6211	1500	12547	504	3418	498	5606
	2	555	6326	1958	19341	366	3119	440	5086
	3	710	8721	2027	19255	388	3627	688	5229
	4	607	6965	1957	18541	433	3129	568	6467

TIME OF DAY: INTAKE-PUMP REPLICATE	MORNING		AFTERNOON		SUNSET	
	ANCHOVY	TOTAL	ANCHOVY	TOTAL	ANCHOVY	TOTAL
1	2884	16669	1909	13504	2308	14385
2	2446	15795	1522	9482	1607	9172
3	2487	16588	1814	12990	1582	8639
4	2660	16650	1824	14415	1916	7237

TIME OF DAY: INTAKE-PUMP REPLICATE	BEFORE MIDNIGHT		AFTER MIDNIGHT		SUNRISE	
	ANCHOVY	TOTAL	ANCHOVY	TOTAL	ANCHOVY	TOTAL
1	280	6153	401	4691	62	2089
2	360	6083	369	4508	0	1706
3	232	5776	124	2446	0	1610
4	231	5390	126	2404	0	1575

Table VI-44. Number of individuals collected in SONGS offshore tows, 29-30 January 1979.

MANTA NET NUMBER OF INDIVIDUALS/1000M <sup>3</sup>																	
SPECIES NAME	REPLICATE	STATION T-1				STATION T-2				STATION C-1				STATION C-2			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
ENGRAULIS MORDAX		95	141	111	146	111	99	107	116	77	49	100	68	404	764	79	270
STENOBRACHIUS LEUCOPSARUS		-	-	-	-	-	-	-	-	9	-	10	-	-	-	-	-
OTOPHOIUM SCRIPPSI		-	-	-	-	7	-	-	-	-	-	-	-	-	-	-	-
ATHERININAE, UNID.		264	67	111	133	89	157	164	210	865	294	249	572	879	1062	63	99
ATHERININAE, TYPE B		9	-	-	-	-	-	-	-	-	-	-	-	18	9	-	-
TRACHURUS SYMMETRICUS		-	-	-	-	-	-	-	-	-	-	-	-	-	9	-	-
GENYONEMUS LINEATUS		525	454	406	1166	635	534	820	834	171	98	149	188	308	391	252	350
CLINIDAE, TYPE A		-	-	-	-	-	-	-	-	-	10	-	9	-	-	-	7
HYPSOBLENNIUS SPP.		-	-	7	-	-	-	-	-	-	-	-	-	-	-	-	-
TYPHLOGOBIOUS CALIFORNIENSIS		-	-	-	-	-	-	-	-	-	-	-	9	-	-	-	-
GOBIIDAE, TYPE A		-	-	-	-	-	-	-	-	-	10	10	-	9	9	-	7
SCORPAENICHTHYS MARMORATUS		-	-	-	-	-	-	-	-	-	-	-	-	18	19	-	-
CITHARICHTHYS SPP.		26	37	26	27	81	35	90	58	-	-	-	-	-	-	8	26
PARALICHTHYS/XYSTREURYS LIGLEPIS		26	25	7	20	7	12	25	7	9	-	-	-	9	-	16	-
PLEURONICHTHYS VERTICALIS		-	-	-	-	-	6	-	-	-	-	-	-	-	-	-	-
MYRSPONSETTA GUTTULATA		-	6	7	-	-	-	-	7	9	-	-	-	9	19	-	-
PISCES LARVAE, UNID.		-	-	7	-	-	17	-	-	9	-	-	9	-	-	55	7
PISCES-YOLK SAC LARVAE		17	227	144	152	125	52	90	80	34	20	-	9	26	56	173	264
NUMBER OF INDIVIDUALS		982	957	826	1644	1055	912	1296	1312	1183	481	518	855	1689	2329	646	1030
NUMBER OF SPECIES		7	7	9	6	7	8	6	7	8	6	5	6	10	8	7	8

BONGU NET NUMBER OF INDIVIDUALS/1000M <sup>3</sup>																	
SPECIES NAME	REPLICATE	STATION T-1				STATION T-2				STATION C-1				STATION C-2			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
ENGRAULIS MORDAX		145	381	236	389	322	124	427	187	245	60	219	254	798	628	355	503
BATHYLAGUS OCHOTENSIS		-	-	-	-	-	-	-	-	-	-	-	9	9	10	-	61
STENOBRACHIUS LEUCOPSARUS		-	-	-	-	-	-	-	-	-	-	-	-	19	-	-	35
LAMPANCTUS RITTERI		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LAMPANCTUS SP.		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MERLUCCIUS PRODUCTUS		-	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ATHERININAE, UNID.		6	13	7	-	7	-	-	7	36	20	30	48	28	-	27	43
GENYONEMUS LINEATUS		234	401	-	1934	773	443	792	749	163	99	179	192	497	775	346	1231
METEROSTICHMUS ROSTRATUS		-	-	-	-	-	-	9	7	-	10	-	17	-	-	-	17
CLINIDAE, TYPE A		-	-	-	8	-	-	-	9	7	136	119	149	166	9	-	9
GOBIIDAE, TYPE A		6	-	7	-	-	-	-	15	-	-	-	-	28	-	-	-
LEPIDOGOBIOUS LEPIDUS		-	-	-	-	-	-	-	-	-	-	-	17	-	-	-	-
SEBASTES, TYPE 7		-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	-
SEBASTES, TYPE 3		-	7	-	-	7	-	-	-	-	-	-	-	-	-	-	-
SEBASTES, TYPE 4		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SEBASTES, TYPE 13		-	-	-	-	-	-	-	-	-	10	-	-	-	-	10	-
COTTIDAE, TYPE 7		6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PARALICHTHYS CALIFORNICUS		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CITHARICHTHYS SPP.		6	27	-	23	21	9	36	45	9	-	10	-	19	-	-	43
PARALICHTHYS/XYSTREURYS LIGLEPIS		-	7	28	23	-	9	48	7	9	20	-	-	28	-	-	9
PLEURONICHTHYS VERTICALIS		-	13	-	-	-	-	-	-	-	-	-	-	9	-	-	-
MYRSPONSETTA GUTTULATA		-	13	14	8	-	-	-	-	-	-	-	-	-	10	-	9
PAROPHRYUS VETULUS		-	-	-	-	-	-	-	7	-	-	-	-	9	10	-	9
SYMPTHMUS ATRICAUDA		-	-	42	191	14	18	53	7	-	-	-	-	28	-	49	53
PISCES LARVAE, UNID.		57	-	-	64	18	18	53	7	-	-	-	-	-	-	-	43
PISCES-YOLK SAC LARVAE		164	27	146	-	64	18	169	165	9	30	-	17	263	69	27	69
NUMBER OF INDIVIDUALS		624	896	480	2176	1208	621	1539	1203	607	368	587	716	1753	1620	808	2099
NUMBER OF SPECIES		8	10	7	7	7	6	8	11	7	8	5	8	14	12	5	15

AURIGA NET NUMBER OF INDIVIDUALS/1000M <sup>3</sup>																	
SPECIES NAME	REPLICATE	STATION T-1				STATION T-2				STATION C-1				STATION C-2			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
ENGRAULIS MORDAX		421	148	311	317	384	427	515	393	2937	3726	3128	828	616	1793	1375	1113
STENOBRACHIUS LEUCOPSARUS		-	-	-	-	-	-	-	-	-	-	-	-	8	-	-	-
GOBIESOX RHESSODON		-	-	-	-	-	-	-	-	-	-	-	8	-	-	-	-
ATHERININAE, UNID.		-	-	9	-	-	17	-	46	47	48	24	-	-	73	16	15
GENYONEMUS LINEATUS		1008	934	594	950	488	409	211	176	1953	2800	2827	3594	6610	4727	4782	7139
METEROSTICHMUS ROSTRATUS		-	-	-	-	-	-	25	31	-	8	8	-	8	8	-	-
CLINIDAE, TYPE A		27	28	-	9	-	9	-	50	31	62	8	-	8	-	-	-
CLINIDAE, TYPE B		-	9	-	-	-	-	8	-	15	16	-	-	-	-	-	-
HYPSOBLENNIUS SPP.		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7
GOBIIDAE, UNID.		-	-	-	9	-	-	-	-	-	-	-	-	-	-	-	-
TYPHLOGOBIOUS CALIFORNIENSIS		-	-	-	-	-	-	-	-	-	-	-	8	-	-	-	-
GOBIIDAE, TYPE A		192	129	62	141	28	-	-	17	565	397	301	189	228	546	352	261
LEPIDOGOBIOUS LEPIDUS		27	-	-	26	-	-	18	-	46	-	16	55	25	41	8	15
GOBIIDAE, TYPE D		27	-	-	9	19	9	8	17	53	70	40	24	25	98	56	142
PARALICHTHYS CALIFORNICUS		-	-	-	-	-	-	-	-	-	-	-	8	-	-	-	7
PARALICHTHYS/XYSTREURYS LIGLEPIS		-	-	-	-	-	9	8	8	31	-	63	32	-	33	40	7
PLEURONICHTHYS RITTERI		-	-	-	-	-	-	-	-	-	-	-	-	8	-	8	-
PLEURONICHTHYS VERTICALIS		-	-	-	-	-	-	-	-	-	-	16	-	-	-	-	-
MYRSPONSETTA GUTTULATA		-	-	-	9	9	-	-	8	15	-	24	-	8	24	-	7
PAROPHRYUS VETULUS		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7
PISCES LARVAE, UNID.		46	111	9	44	28	9	8	-	168	109	48	24	304	236	128	1008
PISCES-YOLK SAC LARVAE		27	-	-	-	28	-	8	8	23	-	24	28	-	-	-	-
NUMBER OF INDIVIDUALS		1775	1359	985	1514	984	890	783	702	5914	7243	6551	4810	7840	7579	6773	9728
NUMBER OF SPECIES		8	6	5	9	7	7	8	9	13	9	14	11	10	10	10	12

Table VI-45. Number of individuals collected in SONGS intake samples, 29-30 January 1979.

INTAKE SAMPLE NUMBER OF INDIVIDUALS/1000M**3													
SPECIES NAME	REPLICATE:	MORNING:				AFTERNOON:				SUNSET:			
		1	2	3	4	1	2	3	4	1	2	3	4
ENGRAULIS MORDAX		143	122	136	49	309	117	212	194	185	134	204	368
GOBIESOX RHESSODON		-	-	-	16	-	-	-	-	-	-	-	-
ATHERINIDAE, UNID.		-	-	-	-	-	-	-	-	-	-	85	88
SYNGNATHUS SP.		-	-	-	-	-	-	-	-	-	-	-	-
GENYONEMUS LINEATUS		1195	963	940	1379	1267	753	1422	1889	1215	586	646	545
METEROSTICHUS ROSTRATUS		-	-	-	-	-	-	-	15	-	-	-	-
CLINIDAE, TYPE A		-	-	-	-	-	-	16	-	-	-	51	44
HYPSOBLENNIUS SPP.		-	-	-	-	16	-	-	-	-	17	-	-
GOBIIDAE, UNID.		-	-	-	-	-	-	-	-	-	-	-	-
GOBIIDAE, TYPE A		16	-	-	16	16	33	-	65	15	-	17	-
LEPIDOGOBIOUS LEPIDUS		-	-	-	-	-	-	-	-	-	-	-	-
GOBIIDAE, TYPE D		-	-	-	-	-	-	-	-	-	-	-	-
CITHARICHTHYS SPP.		32	46	45	49	48	-	65	48	46	-	17	-
PARALICHTHYS/XYSTREURYS LIOLEPIS		64	-	45	-	32	-	33	48	46	-	34	-
PLEURONICHTHYS VERTICALIS		-	-	-	-	-	-	16	-	-	-	-	-
HYPSOPSETTA GUTTULATA		-	31	-	33	16	-	-	-	-	-	-	15
RISCES LARVAE, UNID.		-	-	-	-	-	17	16	-	31	17	-	44
PISCES YOLK SAC LARVAE		303	-	45	246	64	184	131	307	277	134	170	29
NUMBER OF INDIVIDUALS		1793.	1162.	1211.	1788.	1764.	1104.	1895.	2567.	1830.	888.	1224.	1133.
NUMBER OF SPECIES		6.	4.	5.	7.	8.	5.	7.	7.	8.	5.	8.	7.
EVENING: NIGHT: SUNRISE:													
SPECIES NAME	REPLICATE:	EVENING:				NIGHT:				SUNRISE:			
		1	2	3	4	1	2	3	4	1	2	3	4
ENGRAULIS MORDAX		670	954	834	1445	972	954	1471	1021	405	338	752	443
GOBIESOX RHESSODON		-	-	-	-	-	-	-	-	-	-	-	-
ATHERINIDAE, UNID.		16	78	108	72	108	92	789	267	156	15	-	-
SYNGNATHUS SP.		-	-	-	-	-	-	-	-	-	-	15	-
GENYONEMUS LINEATUS		561	328	556	361	201	46	93	141	31	31	31	46
METEROSTICHUS ROSTRATUS		-	-	-	-	31	15	31	16	-	-	15	-
CLINIDAE, TYPE A		16	16	31	-	-	31	62	63	16	31	46	-
HYPSOBLENNIUS SPP.		-	-	-	-	-	-	-	-	-	-	-	-
GOBIIDAE, UNID.		16	-	-	-	-	-	-	-	-	-	-	-
GOBIIDAE, TYPE A		31	141	62	58	108	108	108	79	31	61	31	107
LEPIDOGOBIOUS LEPIDUS		16	-	-	14	15	-	62	173	-	-	-	-
GOBIIDAE, TYPE D		16	-	-	-	-	-	-	-	-	-	-	-
CITHARICHTHYS SPP.		-	-	-	-	-	-	-	-	-	-	-	-
PARALICHTHYS/XYSTREURYS LIOLEPIS		-	-	-	-	-	-	15	-	-	15	-	15
PLEURONICHTHYS VERTICALIS		-	-	-	-	-	-	-	-	-	-	-	-
HYPSOPSETTA GUTTULATA		-	16	-	-	-	-	-	-	-	-	-	-
PISCES LARVAE, UNID.		-	-	-	-	-	-	-	31	62	-	46	-
PISCES YOLK SAC LARVAE		-	-	15	-	15	-	15	16	-	31	15	-
NUMBER OF INDIVIDUALS		1342.	1533.	1606.	1950.	1450.	1246.	2646.	1807.	701.	522.	951.	611.
NUMBER OF SPECIES		8.	6.	6.	5.	7.	6.	9.	9.	6.	7.	6.	4.

Table VI-46. Fish egg concentrations for SONGS ichthyoplankton sampling program 28 February to 1 March 1979.

NUMBER OF EGGS/1000 M\*\*3

STATION: NET TYPE REPLICATE	T-1		T-2		C-1		C-2	
	ANCHOVY	TOTAL	ANCHOVY	TOTAL	ANCHOVY	TOTAL	ANCHOVY	TOTAL
MANTA 1	9	15644	1030	10360	641	7806	4456	15747
2	17	14886	1639	11370	156	8845	3959	16870
3	32	15092	1404	9012	189	8606	3636	22753
4	87	15174	2215	11108	514	10099	3642	22956
PCNGO 1	14	17709	73	19949	99	7216	1800	24732
2	22	17643	168	15942	38	7092	3328	23222
3	17	22518	321	12258	31	6092	2831	18970
4	48	17283	436	14266	359	7530	3229	21767
ALRIGA 1	0	5829	26	8385	10	3298	0	9071
2	0	4504	10	19498	0	2919	0	8795
3	9	4028	18	9731	15	2898	9	7995
4	0	3388	9	5774	0	5901	8	7865

TIME OF DAY: INTAKE-PUMP REPLICATE	MORNING		AFTERNOON		SUNSET	
	ANCHOVY	TOTAL	ANCHOVY	TOTAL	ANCHOVY	TOTAL
1	0	17780	10	3450	0	10070
2	10	21470	10	22780	0	5370
3	0	18420	0	6260	0	4730
4	0	13540	0	6750	0	6790

TIME OF DAY: INTAKE-PUMP REPLICATE	BEFORE MIDNIGHT		AFTER MIDNIGHT		SUNRISE	
	ANCHOVY	TOTAL	ANCHOVY	TOTAL	ANCHOVY	TOTAL
1	10	17640	0	7950	0	19280
2	0	17910	10	8130	20	19510
3	0	14960	0	10750	0	18680
4	0	15160	10	18370	50	24860

Table VI-47. Number of individuals collected in SONGS offshore tows, 28 February to 1 March 1979.

SPECIES NAME	MAATA NET NUMBER OF INDIVIDUALS/1000M**3																
	STATION T-1				STATION T-2				STATION C-1				STATION C-2				
	REPLICATE:	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
ENGRAULIS MORDAX	382	202	129	229	159	98	116	196	37	55	110	79	44	161	138	157	
ATHERINIDAE, UNID.	364	496	329	386	25	16	33	16	177	192	159	109	80	59	121	59	
ATHERINOPSIS CALIFORNIENSIS	75	34	64	110	-	-	25	-	15	18	50	30	27	15	16	-	
TRACHURUS SYMMETRICUS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
GONYONEMUS LINEATUS	28	17	32	24	17	8	-	-	15	18	40	40	18	73	65	83	
CLINIDAE, TYPE A	9	-	8	-	-	-	-	-	-	-	-	-	-	7	-	-	
GOBIIDAE, TYPE A	-	-	-	8	-	-	-	-	-	-	-	-	-	-	-	-	
GOBIIDAE, TYPE D	-	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
HEXAGRAMMUS DECAGRAMMUS	-	-	-	-	-	-	8	-	-	-	-	-	-	-	-	-	
PARALICHTHYS CALIFORNICUS	9	8	8	16	-	-	33	8	7	9	-	-	9	7	-	8	
PARALICHTHYS/XYSTREURYS LICLEPIS	-	-	16	-	-	8	8	8	-	-	-	-	-	29	16	8	
HYPSOPSETTA GUTTULATA	-	-	-	-	-	8	8	-	-	-	-	-	9	7	8	-	
PISCES LARVAE, UNID.	9	-	-	-	-	8	8	-	-	9	-	-	-	-	-	16	
PISCES YOLK SAC LARVAE	9	-	-	32	-	-	-	-	-	9	-	-	-	-	-	1	
NUMBER OF INDIVIDUALS		876	765	586	813	201	138	231	244	251	310	359	258	187	358	310	310
NUMBER OF SPECIES		7	6	7	8	3	5	7	6	5	7	4	4	6	8	8	5

SPECIES NAME	HUNGO NET NUMBER OF INDIVIDUALS/1000M**3																
	STATION T-1				STATION T-2				STATION C-1				STATION C-2				
	REPLICATE:	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
ENGRAULIS MORDAX	887	638	678	473	616	375	428	306	678	563	585	302	452	380	337	334	
STENORRACHTUS LEUCOPSARUS	3	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
ATHERINIDAE, UNID.	10	14	-	6	-	-	-	-	-	19	41	18	4	-	-	-	
SFRIPPUS POLITUS	-	-	3	-	-	4	-	-	-	-	-	-	-	4	4	4	
GONYONEMUS LINEATUS	301	179	104	215	311	47	77	48	142	48	31	4	244	136	70	115	
ETEROSTICHUS RUSTRATUS	3	4	7	3	3	-	-	-	7	5	-	4	-	-	-	-	
CLINIDAE, TYPE A	17	4	17	23	6	4	3	-	26	14	26	-	-	-	-	-	
TYPHLOGOBIVUS CALIFORNIENSIS	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	
GOBIIDAE, TYPE A	31	18	14	23	10	-	-	-	11	19	5	-	11	-	-	-	
LEPIDOGORIVUS LEPIDUS	-	-	-	-	-	-	-	-	-	-	-	-	-	4	-	-	
GOBIIDAE, TYPE D	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SEBASTES, TYPE 10	-	-	-	-	-	-	3	-	-	-	-	-	-	-	-	-	
PARALICHTHYS CALIFORNICUS	-	-	-	-	-	-	-	-	-	-	5	-	-	4	-	-	
PARALICHTHYS/XYSTREURYS LICLEPIS	-	7	3	-	3	11	3	7	4	-	-	-	11	26	15	25	
PLEURONICTHYS VERTICALIS	-	-	-	-	3	-	-	-	-	-	-	-	-	4	4	-	
HYPSOPSETTA GUTTULATA	-	-	-	-	-	4	6	-	-	-	5	-	7	8	11	-	
PAROPHRYS VETULUS	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	
PISCES LARVAE, UNID.	7	-	-	-	13	4	-	15	34	-	5	18	11	-	4	4	
PISCES YOLK SAC LARVAE	31	11	3	-	-	-	-	15	-	5	5	9	7	8	4	-	
NUMBER OF INDIVIDUALS		1290	883	835	743	965	449	520	391	902	673	713	355	751	570	449	482
NUMBER OF SPECIES		9	10	10	6	8	7	6	5	7	7	10	6	9	8	8	5

SPECIES NAME	AURICA NET NUMBER OF INDIVIDUALS/1000M**3																
	STATION T-1				STATION T-2				STATION C-1				STATION C-2				
	REPLICATE:	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
ENGRAULIS MORDAX	121	307	251	991	464	410	589	1115	3413	2578	1283	1320	1747	3208	4893	4397	
STENORRACHTUS LEUCOPSARUS	9	-	-	-	-	-	9	-	-	-	-	-	-	17	-	-	16
GOBIESOX RHESODON	-	-	19	10	-	-	9	9	-	-	-	-	-	-	-	-	-
ATHERINIDAE, UNID.	-	-	-	-	-	-	-	-	-	-	15	-	-	-	-	-	-
GONYONEMUS LINEATUS	2075	4752	3740	1813	304	420	452	459	906	1098	498	631	1279	2522	2969	3580	
PARALICHTHYS INTEGRIPINNIS	-	-	-	-	-	-	-	-	-	-	-	-	-	9	-	-	
ETEROSTICHUS RUSTRATUS	18	43	28	-	9	10	-	28	29	17	45	10	-	-	-	-	
CLINIDAE, TYPE A	44	26	9	20	1	40	4	103	57	77	-	19	8	-	-	-	
CLINIDAE, TYPE C	-	-	-	-	-	-	-	-	-	9	-	-	8	-	-	-	
GOBIIDAE, UNID.	-	17	-	-	-	-	-	-	10	-	-	-	-	-	-	-	
GOBIIDAE, TYPE A	106	94	177	85	26	30	27	9	48	60	30	39	25	18	9	40	
LEPIDOGORIVUS LEPIDUS	-	9	9	-	-	-	-	-	57	-	-	29	-	18	-	8	
GOBIIDAE, TYPE D	9	17	-	-	-	-	-	9	-	-	-	-	8	45	89	88	
SEBASTES, TYPE 7	-	-	-	-	-	-	9	-	-	-	-	-	-	-	-	-	
SEBASTES, TYPE 10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8
OXYLEBIUS PICTUS	-	-	-	-	-	-	-	-	-	9	-	-	8	-	-	-	
COTTIDAE, TYPE 2	-	-	-	-	-	-	-	-	-	-	17	-	-	25	-	9	
COTTIDAE, TYPE 6	-	-	-	-	-	-	-	9	-	-	-	-	-	-	-	9	
PARALICHTHYS CALIFORNICUS	-	-	-	-	-	-	-	9	9	-	-	-	-	-	-	-	
PARALICHTHYS/XYSTREURYS LICLEPIS	-	-	-	-	-	-	-	9	9	-	-	-	-	-	-	-	
PLEURONICTHYS VERTICALIS	-	-	-	-	-	-	-	9	9	-	-	-	-	-	-	-	
HYPSOPSETTA GUTTULATA	9	9	-	-	-	-	-	-	-	-	-	-	-	8	-	-	
PAROPHRYS VETULUS	-	-	-	-	-	-	9	-	-	-	-	-	-	-	-	-	
PISCES LARVAE, UNID.	26	26	19	267	35	20	-	-	10	-	226	10	42	178	-	-	
PISCES YOLK SAC LARVAE	-	-	-	-	-	-	9	-	-	-	-	-	8	-	-	9	
NUMBER OF INDIVIDUALS		3017	5300	4252	5200	860	930	1349	1750	4530	3865	2047	2058	3183	5998	7996	8137
NUMBER OF SPECIES		9	10	8	7	6	6	12	9	8	8	6	7	12	7	8	7



Table VI-48. Number of individuals collected in SONGS intake samples,  
28 February to 1 March 1979.

INTAKE SAMPLE NUMBER OF INDIVIDUALS/1000M**3													
SPECIES NAME	MORNING:				AFTERNOON:				SUNSET:				
	REPLICATE:	1	2	3	4	1	2	3	4	1	2	3	4
ENGRAULIS MORDAX	230	250	280	130	156	220	180	200	650	490	420	430	
GOBIESOX RHESSODON	-	-	-	-	-	-	-	-	-	-	-	-	-
ATHERINIDAE, UNID.	-	-	-	-	-	-	-	-	-	-	-	-	-
SYNGNATHUS SP.	-	-	-	-	-	-	-	-	-	-	-	-	-
GENYONEMUS LINEATUS	50	70	20	10	78	10	-	30	260	200	660	900	
HETEROSTICHUS ROSTRATUS	-	-	-	-	19	-	-	-	30	10	10	20	
CLINIDAE, TYPE A	-	10	-	10	10	20	20	-	20	-	10	-	
GOBIIDAE, UNID.	-	-	-	-	-	-	-	-	-	-	-	-	-
GOBIIDAE, TYPE A	-	10	-	-	-	10	10	10	20	10	10	40	
LEPIDOGOBIOUS LEPIDUS	-	-	-	-	-	-	-	-	-	-	10	10	
PARALICHTHYS CALIFORNICUS	-	-	-	-	-	-	-	-	-	-	-	-	-
PARALICHTHYS/XYSTREURYS LICLEPIS	10	-	-	-	-	-	-	-	-	-	-	-	-
PISCES LARVAE, UNID.	-	-	-	-	-	-	-	-	20	30	20	70	
PISCES YOLK SAC LARVAE	30	80	20	10	-	30	10	-	10	-	-	-	
NUMBER OF INDIVIDUALS	320.	420.	320.	160.	263.	290.	220.	240.	1010.	740.	1160.	1470.	
NUMBER OF SPECIES	4.	5.	3.	4.	4.	5.	4.	3.	7.	5.	9.	6.	
-----													
SPECIES NAME	EVENING:				NIGHT:				SUNRISE:				
	REPLICATE:	1	2	3	4	1	2	3	4	1	2	3	4
ENGRAULIS MORDAX	1190	900	500	740	1430	2100	1030	360	150	170	110	110	
GOBIESOX RHESSODON	-	-	-	-	-	-	10	-	-	-	-	-	-
ATHERINIDAE, UNID.	10	10	-	10	20	10	-	-	-	-	-	-	-
SYNGNATHUS SP.	-	-	-	-	-	-	-	-	-	-	-	-	-
GENYONEMUS LINEATUS	320	290	80	130	130	120	50	60	10	10	10	-	
HETEROSTICHUS ROSTRATUS	-	10	-	10	-	-	10	-	-	-	-	-	-
CLINIDAE, TYPE A	-	30	-	-	-	10	30	40	20	-	-	-	-
GOBIIDAE, UNID.	-	-	-	-	-	-	-	10	-	-	-	-	-
GOBIIDAE, TYPE A	10	10	-	20	40	-	10	-	10	-	-	-	-
LEPIDOGOBIOUS LEPIDUS	-	-	-	-	-	-	-	-	-	-	-	-	-
PARALICHTHYS CALIFORNICUS	-	-	-	-	-	-	-	-	-	-	-	-	10
PARALICHTHYS/XYSTREURYS LICLEPIS	10	-	-	-	-	-	-	-	-	-	-	-	-
PISCES LARVAE, UNID.	60	30	130	40	10	140	60	80	60	80	10	-	
PISCES YOLK SAC LARVAE	-	10	40	30	-	-	-	-	-	10	-	10	
NUMBER OF INDIVIDUALS	1600.	1290.	750.	980.	1630.	2380.	1200.	550.	250.	270.	130.	130.	
NUMBER OF SPECIES	6.	8.	4.	7.	5.	5.	7.	5.	5.	4.	3.	3.	

Table VI-49. Fish egg concentrations for SONGS ichthyoplankton sampling program 29-30 March 1979.

		NUMBER OF EGGS/1000 M**3							
STATION: NET TYPE	REPLICATE	T-1		T-2		C-1		C-2	
		ANCHOVY	TOTAL	ANCHOVY	TOTAL	ANCHOVY	TOTAL	ANCHOVY	TOTAL
MANTA	1	244	7180	784	10586	9	1357	130	5005
	2	89	1013	455	12616	10	1979	151	5866
	3	71	4514	492	15290	20	2939	166	6167
	4	118	8759	307	7890	28	3841	42	4697
BCNGO	1	65	4552	74	14460	21	2635	82	2886
	2	20	4360	52	10185	22	3184	42	4157
	3	43	5447	69	7008	43	1712	81	4499
	4	114	7295	233	10781	21	2005	19	3165
ALRIGA	1	19	3700	0	1456	24	715	84	4102
	2	10	2378	48	10277	0	2697	22	7347
	3	0	851	0	488	17	1321	95	7007
	4	0	1665	0	612	0	1101	0	3792

TIME OF DAY: INTAKE-PUMP REPLICATE	MORNING		AFTERNOON		SUNSET	
	ANCHOVY	TOTAL	ANCHOVY	TOTAL	ANCHOVY	TOTAL
1	50	2760	20	2100	34	1403
2	10	1680	47	1934	20	1370
3	20	1610	30	1430	10	1510
4	50	1940	20	1190	20	1640

TIME OF DAY: INTAKE-PUMP REPLICATE	BEFORE MIDNIGHT		AFTER MIDNIGHT		SUNRISE	
	ANCHOVY	TOTAL	ANCHOVY	TOTAL	ANCHOVY	TOTAL
1	60	3370	20	2580	70	3520
2	10	2950	20	2860	50	3760
3	0	2450	0	2300	60	3980
4	20	2430	0	2540	10	2630

Table VI-50. Number of individuals collected in SONGS offshore tows, 29-30 March 1979.

SPECIES NAME	REPLICATE:	MANTA NET NUMBER OF INDIVIDUALS/1000M**3															
		STATION T-1				STATION T-2				STATION C-1				STATION C-2			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
ENGRANLLIS MORDAX		546	510	356	641	1430	1696	714	648	102	145	189	277	671	443	514	623
CECILICARIS SAIRA		10	-	-	-	-	-	10	10	-	-	-	-	-	-	-	-
LEURESTHES TENNIS		137	983	1651	903	424	271	434	656	55	29	10	-	28	47	52	84
ATHERINOPSIS CALIFORNIENSIS		220	199	150	93	-	19	241	83	129	77	328	286	103	104	113	295
SERIPHUS POLITUS		-	-	-	8	9	34	29	-	-	-	-	-	9	-	4	25
ATHERINIDAE, UNID.		-	-	-	8	-	-	-	-	-	29	-	-	-	-	-	67
CLINIDAE, TYPE B		-	-	-	-	-	-	-	-	-	-	-	-	9	-	-	-
HYPSORLENNIUS SPP.		-	10	-	-	-	-	-	8	-	-	-	-	-	-	-	-
TYPHLOGORINUS CALIFORNIENSIS		-	-	16	-	9	-	-	8	-	-	-	-	-	9	-	-
GCHIIDAE, TYPE A		39	10	-	-	9	10	-	8	-	-	-	-	-	-	-	8
LYTHRYPHUS SP.		-	-	-	-	-	-	10	-	-	-	-	-	-	-	-	-
CYCLIPIUS PICTUS		-	-	-	-	-	-	-	17	-	10	-	-	-	-	-	-
LEPTOCETUS ARMATUS		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8
PARALICHTHYS CALIFORNICUS		10	-	-	-	-	10	-	-	-	-	-	-	-	-	-	-
PARALICHTHYS/XYSTRIFURYS LICLEPTIS		-	-	-	-	-	10	10	8	-	-	-	-	-	-	-	-
HYPSOPSETIA GUTTILATA		-	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PISCES LARVAE, UNID.		-	10	142	8	9	68	-	42	65	-	-	28	-	122	131	25
PISCES YOLK SAC LARVAE		10	-	-	-	9	-	-	-	28	10	50	28	65	28	-	-
NUMBER OF INDIVIDUALS		476	1540	1715	1661	2299	2133	1448	1478	379	300	577	628	865	744	819	1135
NUMBER OF SPECIES		7	7	5	6	7	9	7	9	5	6	4	5	6	5	5	8

SPECIES NAME	REPLICATE:	MANTA NET NUMBER OF INDIVIDUALS/1000M**3															
		STATION T-1				STATION T-2				STATION C-1				STATION C-2			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
ENGRANLLIS MORDAX		2607	3986	5473	6725	1526	1685	1336	857	852	522	432	855	9750	11623	13205	4681
GCHIESIA PHESSODON		-	-	-	-	-	-	-	-	10	11	-	41	-	-	-	-
GCHIESIDAE, TYPE A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9
ATHERINIDAE, UNID.		-	-	-	-	-	-	-	-	10	-	-	-	-	-	-	-
LEURESTHES TENNIS		-	20	60	28	-	-	-	27	10	-	-	31	-	21	30	9
ATHERINOPSIS CALIFORNIENSIS		-	-	-	-	-	-	-	9	51	-	76	21	21	21	40	-
SERIPHUS POLITUS		-	-	-	9	9	9	9	10	-	-	-	-	21	61	28	-
GENYONEMUS LINEATUS		-	177	34	16	33	155	69	27	157	55	444	288	196	85	142	102
HETEROSTICHUS ROSTRATUS		-	10	-	-	8	-	9	-	10	-	-	-	10	-	10	-
CLINIDAE, TYPE A		-	-	4	28	8	9	9	21	-	-	-	31	-	-	-	9
HYPSORLENNIUS SPP.		-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	-
TYPHLOGORINUS CALIFORNIENSIS		-	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GCHIIDAE, TYPE A		169	59	164	85	16	34	9	63	55	152	41	21	11	20	56	-
LEPTOCETUS LEPIDUS		-	-	-	16	-	-	-	-	-	11	-	-	-	-	-	9
GCHIIDAE, TYPE D		-	-	-	-	-	-	-	-	-	-	-	10	-	-	-	-
GCHIIDAE, TYPE C		-	-	-	-	-	-	-	-	-	-	-	-	-	11	-	-
LYTHRYPHUS SP.		-	-	-	-	-	-	9	-	-	-	-	-	-	-	-	-
PARALICHTHYS CALIFORNICUS		8	-	-	-	-	-	-	-	-	-	-	-	-	10	-	-
CITHARICHTHYS SPP.		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PARALICHTHYS/XYSTRIFURYS LICLEPTIS		-	-	-	-	8	4	-	-	-	11	62	10	11	10	19	-
PLEURONICHTHYS RITZERI		-	-	-	-	-	9	-	-	-	11	-	-	-	-	-	-
PLEURONICHTHYS VERTICALIS		-	-	-	-	-	-	-	-	10	-	21	-	21	-	-	-
HYPSOPSETIA GUTTILATA		-	-	-	-	8	-	-	-	10	-	21	-	-	-	9	-
PISCES LARVAE, UNID.		24	69	26	16	9	9	27	52	43	-	-	-	-	20	-	-
PISCES YOLK SAC LARVAE		16	10	9	38	25	17	9	-	21	22	22	51	10	11	40	19
NUMBER OF INDIVIDUALS		2824	4341	5775	6970	1632	1945	1432	8474	8467	5465	10152	9163	10038	11847	13588	9950
NUMBER OF SPECIES		5	8	7	9	8	10	5	8	8	14	5	9	11	9	11	11

SPECIES NAME	REPLICATE:	MANTA NET NUMBER OF INDIVIDUALS/1000M**3															
		STATION T-1				STATION T-2				STATION C-1				STATION C-2			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
ENGRANLLIS MORDAX		1028	2639	247	1386	669	2930	225	387	6219	12106	5424	9012	14791	20477	19822	20697
GCHIESIA PHESSODON		-	-	-	-	-	-	-	-	12	46	-	128	36	22	36	41
ATHERINIDAE, UNID.		-	-	-	-	-	-	-	-	12	11	-	-	-	-	-	-
LEURESTHES TENNIS		47	19	-	-	-	-	9	-	-	87	11	24	-	48	21	-
ATHERINOPSIS CALIFORNIENSIS		9	58	12	-	-	-	-	-	-	34	17	86	-	44	12	-
SYNGNATHUS SP.		-	-	-	-	-	-	-	-	12	-	-	-	-	-	-	-
SERIPHUS POLITUS		-	-	-	-	-	-	-	-	-	-	17	-	-	-	-	-
GENYONEMUS LINEATUS		75	156	74	341	498	95	197	216	1843	1756	2069	3122	5848	5583	17280	8690
HETEROSTICHUS ROSTRATUS		-	-	-	-	-	8	-	9	61	69	-	150	-	22	95	10
CLINIDAE, TYPE A		-	10	-	-	-	-	9	-	24	11	-	11	24	11	-	31
GCHIIDAE, UNID.		-	-	-	-	-	-	9	9	-	-	35	11	-	11	-	-
TYPHLOGORINUS CALIFORNIENSIS		-	-	-	-	-	-	-	-	-	-	-	-	12	-	-	-
GCHIIDAE, TYPE A		542	1025	419	1096	39	-	66	135	194	109	104	545	654	355	974	703
LEPTOCETUS LEPIDUS		93	-	12	166	13	16	-	27	61	34	17	321	84	67	12	83
GCHIIDAE, TYPE D		-	-	-	-	-	-	-	-	-	-	-	-	-	-	12	31
GILLICHTHYS MIRABILIS		-	-	-	10	-	-	-	-	12	11	-	-	-	-	-	-
SPRATLUS, TYPE 13		-	-	-	-	-	-	-	-	-	-	-	21	-	-	36	10
PLEURONICHTHYS VERTICALIS		-	-	-	-	-	-	-	-	-	-	-	-	-	-	12	-
PISCES LARVAE, UNID.		37	68	136	155	105	24	9	45	12	-	313	43	299	200	321	341
PISCES YOLK SAC LARVAE		-	-	-	-	16	-	-	-	-	-	-	-	-	-	-	10
NUMBER OF INDIVIDUALS		1831	3954	900	3154	1324	3089	524	828	8462	14227	8083	13461	26572	26742	38684	30668
NUMBER OF SPECIES		7	7	6	6	5	6	7	7	11	10	12	9	12	9	10	12

Table VI-51. Number of individuals collected in SONGS intake samples, 29-30 March 1979.

INTAKE SAMPLE NUMBER OF INDIVIDUALS/1000M**3													
SPECIES NAME	REPLICATE:	MORNING:				AFTERNOON:				SUNSET:			
		1	2	3	4	1	2	3	4	1	2	3	4
ENGRAULIS MURDAX		2870	5880	5190	3420	1840	840	1410	1040	791	910	2720	4470
GORGESOX RHESODON		-	-	10	-	10	9	-	10	-	-	-	-
GORGESOCIDAE, TYPE A		-	-	10	-	-	-	-	-	-	-	-	-
ATHERINIDAE, UNID.		-	-	-	-	-	-	-	-	-	-	-	-
LEURESTHES TENUIS		-	-	-	-	-	-	-	-	-	-	-	20
ATHERINOPSIS CALIFORNIENSIS		-	-	-	-	-	-	-	-	-	-	20	10
SFRIPHUS POLITUS		10	10	-	20	10	-	-	-	17	20	10	10
GENYONEMUS LINEATUS		400	230	40	190	80	28	70	10	9	10	10	70
HETEROSTICHUS ROSTRATUS		-	-	-	-	-	-	10	-	-	-	20	-
CLINIDAE, TYPE A		10	-	-	-	-	-	-	-	-	-	-	10
HYPSONLENNIUS SPP.		-	-	10	20	-	-	-	-	-	-	-	10
GORGESOCIDAE, UNID.		20	-	-	-	-	-	-	-	-	-	-	10
TYPHLOGOBIOUS CALIFORNIENSIS		-	-	-	-	10	-	-	10	-	-	-	-
GORGESOCIDAE, TYPE A		310	700	720	720	360	142	380	230	85	160	160	120
LEPIDOGOBIOUS LEPIDUS		40	-	-	60	-	9	-	-	-	-	-	30
GILlichTHYS MIRABILIS		-	-	-	-	-	-	-	-	-	-	-	-
COTTIDAE, TYPE 7		-	-	-	10	-	-	-	-	-	-	-	-
CITHARICHTHYS SPP.		-	-	-	-	10	9	-	-	-	-	-	-
PARALICHTHYS/XYSTREURYS LIDLEPIS		-	-	-	-	-	-	-	-	-	-	-	-
PLEURONICHTHYS VERTICALIS		-	-	-	-	10	-	-	-	-	-	-	-
HYPSONSETTA GUTTULATA		-	-	-	-	10	9	-	-	-	-	-	10
PISCES LARVAE, UNID.		110	-	150	-	60	264	30	70	-	130	300	40
PISCES YOLK SAC LARVAE		-	10	-	40	-	57	-	-	-	20	10	-
NUMBER OF INDIVIDUALS		3770.	6830.	6130.	4480.	2400.	1367.	1900.	1370.	902.	1250.	3270.	4790.
NUMBER OF SPECIES		8.	5.	7.	8.	10.	9.	5.	6.	4.	6.	10.	10.
-----													
SPECIES NAME	REPLICATE:	EVENING:				NIGHT:				SUNRISE:			
		1	2	3	4	1	2	3	4	1	2	3	4
ENGRAULIS MURDAX		6520	5420	6950	4090	4210	4840	4740	8940	4880	4170	6090	1270
GORGESOX RHESODON		-	10	10	-	-	20	-	10	-	-	-	-
GORGESOCIDAE, TYPE A		-	-	-	-	-	-	-	-	-	-	-	-
ATHERINIDAE, UNID.		-	-	-	-	-	-	-	-	-	-	20	-
LEURESTHES TENUIS		50	30	-	-	80	120	80	100	90	10	-	-
ATHERINOPSIS CALIFORNIENSIS		-	-	80	10	-	-	20	-	-	-	-	-
SFRIPHUS POLITUS		-	-	10	-	-	-	-	-	-	10	10	-
GENYONEMUS LINEATUS		60	30	80	40	30	30	20	50	140	130	80	-
HETEROSTICHUS ROSTRATUS		10	-	40	-	-	-	30	10	10	40	-	-
CLINIDAE, TYPE A		20	20	-	-	40	40	-	50	-	-	10	-
HYPSONLENNIUS SPP.		-	-	-	-	-	-	-	-	-	-	-	-
GORGESOCIDAE, UNID.		-	-	-	-	-	-	-	-	-	-	-	-
TYPHLOGOBIOUS CALIFORNIENSIS		-	-	-	-	-	-	-	-	-	-	-	-
GORGESOCIDAE, TYPE A		290	120	70	60	140	180	90	130	200	270	460	20
LEPIDOGOBIOUS LEPIDUS		30	10	-	-	20	30	20	30	-	-	-	-
GILlichTHYS MIRABILIS		-	-	-	-	-	-	-	10	-	-	-	-
COTTIDAE, TYPE 7		-	-	-	-	-	-	-	-	-	-	-	-
CITHARICHTHYS SPP.		-	-	-	-	-	-	-	-	-	-	-	-
PARALICHTHYS/XYSTREURYS LIDLEPIS		-	-	-	-	-	-	-	-	-	-	30	-
PLEURONICHTHYS VERTICALIS		-	-	-	-	-	-	-	-	-	-	-	-
HYPSONSETTA GUTTULATA		-	-	-	-	-	-	-	-	10	-	-	-
PISCES LARVAE, UNID.		10	20	60	340	20	40	470	30	110	700	60	710
PISCES YOLK SAC LARVAE		10	-	-	-	-	-	10	-	-	10	50	-
NUMBER OF INDIVIDUALS		7000.	5660.	7300.	4540.	4540.	5300.	5480.	9360.	5440.	5340.	6810.	2000.
NUMBER OF SPECIES		9.	8.	8.	5.	7.	8.	9.	10.	7.	8.	9.	3.

Table VI-52. Fish egg concentrations for SONGS ichthyoplankton sampling program 30 April to 1 May 1979.

NUMBER OF EGGS/1000 M\*\*3

STATION: NET TYPE	REPLICATE	T-1		T-2		C-1		C-2	
		ANCHOVY	TOTAL	ANCHOVY	TOTAL	ANCHOVY	TOTAL	ANCHOVY	TOTAL
NANTA	1	21693	69690	51378	65117	8352	12126	47188	77118
	2	13964	51415	38104	70173	16636	21431	54564	99375
	3	11258	53094	32634	94586	20000	25324	64762	78133
	4	7299	42836	17474	117344	26055	31113	87375	100949
BONGO	1	19679	19679	16535	16535	14360	14360	26581	26581
	2	18135	18135	21673	21673	22615	22615	23775	23775
	3	16198	16198	12434	12434	23794	23794	45431	45431
	4	16112	16112	14911	14911	20180	20180	50438	50438
AURIGA	1	33406	33406	18132	18132	23295	23295	13305	13305
	2	33767	33767	21316	21316	20778	20778	13506	13506
	3	20542	20542	30396	30396	13237	13237	8272	8272
	4	21255	21255	25428	25428	15337	15337	10521	10521

TIME OF DAY: INTAKE-PUMP REPLICATE	MORNING		AFTERNOON		SUNSET	
	ANCHOVY	TOTAL	ANCHOVY	TOTAL	ANCHOVY	TOTAL
1	16720	40920	11180	13440	14140	15780
2	14260	37400	15560	17460	15200	17360
3	15640	37060	12800	14620	17360	20360
4	16620	30700	11820	14400	15740	19760

TIME OF DAY: INTAKE-PUMP REPLICATE	BEFORE MIDNIGHT		AFTER MIDNIGHT		SUNRISE	
	ANCHOVY	TOTAL	ANCHOVY	TOTAL	ANCHOVY	TOTAL
1	15940	20320	7720	12440	6100	9020
2	18820	22780	4440	8240	6460	9760
3	13640	20960	4380	9860	9700	13580
4	12620	21580	6240	9620	9260	14960

Table VI-53. Number of individuals collected in SONGS offshore tows, 30 April to 1 May 1979.

MANTA NET NUMBER OF INDIVIDUALS/1000M<sup>3</sup>

SPECIES NAME	REPLICATE:	STATION T-1				STATION T-2				STATION C-1				STATION C-2			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
ENGRAULIS MORDAX		508	1612	3103	2511	993	1076	1547	1760	1188	1097	968	1563	1250	1496	1401	2343
STEMORHACHUS LEUCOPSARUS					18												
GOBIESOX RHESODON		58															
ATHERINOPS AFFINIS			19	19				18									
LEURESTHES TENUIS		151	619	738	452	131	18	55	93	57	112	39	98		38	37	18
ATHERINOPSIS CALIFORNIENSIS		207	375	404	885	37	73	92	167	96	19	39	254	156	76	75	
SERRIPUS PULTIUS			75	114	126	37	55	37	37	38	56	77		17	153	112	163
GENYONEMUS LINEATUS		56	57	38	36	19	36	18	56	19				35	58		
HETEROSTICHUS HOSTRATUS												20					
HYPSOLENNIUS SPP.			75	189	90	19					19					56	
CORYPHOPTERUS NICHOLSII							18		19								
TYPHLOGOBBIUS CALIFORNIENSIS			94	151	126		36	55	56					17			
PEPRILUS SIMILLIUS			37	265	289			55	223	192	149	39	137	69	95	75	36
SEMASTES, TYPE 13															19		
HIPPOGLOSSINA STOMATA													20		19		
CITHARICHTHYS SPP.				57	18								20	35			54
PARALICHTHYS/XYSTREURYS LICLEPIS			19	57	72				19	19	19			17	19		
PLEURONICHTHYS VERTICALIS						19	18	18	56								
HYPSOPSETTA GUTTULATA		19									37	19	20				
PISCES LARVAE, UNID.		19				37				19		19					
PISCES YOLK SAC LARVAE				151	72	75		129	74	57	37		156	174		168	200
NUMBER OF INDIVIDUALS		998	2962	5780	4695	1372	1330	2024	2564	1685	1505	1200	2288	1770	1935	1924	2814
NUMBER OF SPECIES		7	10	12	12	9	8	10	11	9	9	7	9	9	9	7	6

BUMBO NET NUMBER OF INDIVIDUALS/1000M<sup>3</sup>

SPECIES NAME	REPLICATE:	STATION T-1				STATION T-2				STATION C-1				STATION C-2			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
ENGRAULIS MORDAX		3445	2822	2857	6233	5168	3444	987	2390	1129	1775	1639	1724	2471	2619	3398	3000
TYPHLOGOBBIUS MEXICANUS								42									
STEMORHACHUS LEUCOPSARUS		45		21			65		20					21			
LAMPANCTIUS RITTEI		23							20								
LEURESTHES TENUIS			22		18												
ATHERINOPSIS CALIFORNIENSIS					54												
SERRIPUS PULTIUS		68	22	64	56		43	21	78	43	19	61	62	43	225	39	63
GENYONEMUS LINEATUS		68	175	193	199	124	43	105	157	64	97	20	41	64	20		21
HETEROSTICHUS HOSTRATUS			22														
CLINIADAE, TYPE A				21													
HYPSOLENNIUS SPP.		45	88			21										20	
CORYPHOPTERUS NICHOLSII						41											
TYPHLOGOBBIUS CALIFORNIENSIS				21	72						19				20		21
GOBIIDAE, TYPE A			22	21	18	21				64	39		21				
LEPIDOGOBBIUS LEPIDUS			22														
PEPRILUS SIMILLIUS		23	22	64	54	41	65		39	21		20		64		20	63
SEMASTES, TYPE 11													21				
HIPPOGLOSSINA STOMATA										21							21
PARALICHTHYS/XYSTREURYS LICLEPIS					18	21		21	20						20	20	
PLEURONICHTHYS VERTICALIS		23		64	36	21	22	42					41	64	61	79	21
HYPSOPSETTA GUTTULATA									20	21							
PAROPHYRUS VETULUS							22										20
PISCES LARVAE, UNID.						62	22	42				40	21				20
PISCES YOLK SAC LARVAE		90	88	64	163		22		157	64	39	20	21	43		20	21
NUMBER OF INDIVIDUALS		3830	3305	3390	3901	1720	3748	1260	2861	1427	1986	1800	1952	2770	2965	3636	3231
NUMBER OF SPECIES		9	10	10	11	9	9	7	9	8	6	6	8	7	6	9	8

ADMIGA NET NUMBER OF INDIVIDUALS/1000M<sup>3</sup>

SPECIES NAME	REPLICATE:	STATION T-1				STATION T-2				STATION C-1				STATION C-2			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
ENGRAULIS MORDAX		5120	6767	4748	6460	339	1650	3109	579	4080	2099	1324	2561	5085	5409	3396	5306
LAMPANCTIUS RITTEI									36								
GOBIESOX RHESODON		69	67	34	33					31							
LEURESTHES TENUIS										125							
SERRIPUS PULTIUS		35	33		67					62		31	30		54		
GENYONEMUS LINEATUS		311	167	241	268		264	232	36	872	494	31	211	160	67	29	30
RYNCODON STEARNSI														32			
HETEROSTICHUS HOSTRATUS					33												
CLINIADAE, TYPE A			33	34					36		31						
CLINIADAE, TYPE B													30				
HYPSOLENNIUS SPP.												62					
CLINIADAE, TYPE A		69	33	34						249	154		90				30
LEPIDOGOBBIUS LEPIDUS			33							125							
GOBIIDAE, TYPE D									36								29
GILLICHTHYS MIRABILIS																	29
PEPRILUS SIMILLIUS												31					
CITHARICHTHYS STIGMAFUS															34		
PARALICHTHYS/XYSTREURYS LICLEPIS								33				31					
PLEURONICHTHYS VERTICALIS																	50
HYPSOPSETTA GUTTULATA																	
PISCES LARVAE, UNID.						34	66	33	326		93		60	128	134		214
PISCES YOLK SAC LARVAE						68		33									
NUMBER OF INDIVIDUALS		5804	7200	5091	6861	441	1980	3506	1049	5544	2871	1510	2982	5405	5678	3483	5609
NUMBER OF SPECIES		5	8	5	5	3	3	7	6	7	5	6	6	4	5	4	5

Table VI-54. Number of individuals collected in SONGS intake samples, 30 April to 1 May 1979.

SPECIES NAME	INTAKE SAMPLE NUMBER OF INDIVIDUALS/1000M**3												
	MORNING:				AFTERNOON:				SUNSET:				
	REPLICATE:	1	2	3	4	1	2	3	4	1	2	3	4
ENGRAULIS MORDAX	1180	1420	1920	3760	140	920	800	760	2040	2960	5740	1100	
TRIPHOTURUS MEXICANUS	-	-	-	-	-	-	-	-	-	-	-	-	
GOBIESOX RHESSODON	20	40	-	40	-	-	20	-	-	-	-	20	
GOBIESOCIDAE, TYPE A	-	-	-	-	-	-	-	-	-	-	-	-	
LEURESTHES TENUIS	-	20	20	20	-	-	-	-	-	20	-	-	
ATHERINOPSIS CALIFORNIENSIS	-	-	-	-	-	-	-	-	-	-	-	-	
TRACHURUS SYMMETRICUS	-	-	-	-	-	-	-	20	-	-	-	-	
SERIPHUS POLITUS	80	80	60	140	20	120	20	120	280	400	160	40	
GENYONEMUS LINEATUS	60	20	40	100	-	-	40	-	-	20	20	20	
METEROSTICHUS ROSTRATUS	20	-	40	-	-	-	-	-	-	-	-	-	
CLINIDAE, TYPE A	100	-	-	60	-	-	-	-	20	-	20	-	
HYPSOBLENNIUS SPP.	-	-	20	-	20	-	-	-	-	20	20	-	
GCBIIDAE, UNID.	-	-	-	-	-	-	-	-	-	-	-	-	
TYPHLOGOBIUS CALIFORNIENSIS	320	40	-	40	-	20	-	-	160	40	20	20	
GCBIIDAE, TYPE A	-	-	20	100	-	-	-	-	-	-	-	60	
LEPIDOGORBIUS LEPIDUS	-	-	-	-	-	-	-	-	-	-	-	-	
LYTHRYPHUS SP.	-	-	-	-	-	-	-	-	-	-	20	-	
PEPRILUS SIMILLIMUS	-	-	20	-	-	60	40	120	40	140	-	20	
CITHARICHTHYS SPP.	-	-	20	-	-	-	-	-	20	-	20	-	
PARALICHTHYS/XYSTREURYS LICLEPIS	-	-	-	-	-	-	-	-	-	-	-	-	
HYPSOPSETTA GUTTULATA	-	-	-	-	-	-	-	-	-	-	20	-	
PAROPHRYS VETULUS	-	-	-	-	-	-	-	-	-	-	20	-	
PISCES LARVAE, UNID.	20	40	20	20	-	-	-	-	-	60	40	60	
PISCES YOLK SAC LARVAE	60	60	40	200	20	40	260	260	360	-	580	100	
NUMBER OF INDIVIDUALS	1860.	1720.	2220.	4480.	200.	1160.	1180.	1280.	2920.	3660.	6680.	1440.	
NUMBER OF SPECIES	9.	8.	11.	10.	4.	5.	6.	5.	7.	8.	12.	9.	
SPECIES NAME	EVENING: NIGHT: SUNRISE:												
	REPLICATE:	1	2	3	4	1	2	3	4	1	2	3	4
	ENGRAULIS MORDAX	1560	2180	1480	1680	860	460	820	1220	1840	1420	2220	1440
TRIPHOTURUS MEXICANUS	-	-	-	-	-	-	-	20	-	-	-	-	
GOBIESOX RHESSODON	20	20	-	-	-	-	20	-	60	-	20	20	
GOBIESOCIDAE, TYPE A	-	-	-	-	-	-	-	-	-	-	-	20	
LEURESTHES TENUIS	20	20	40	40	20	-	-	-	-	-	-	-	
ATHERINOPSIS CALIFORNIENSIS	-	-	-	-	-	20	-	-	-	-	-	-	
TRACHURUS SYMMETRICUS	-	-	-	-	-	-	-	-	-	-	-	-	
SERIPHUS POLITUS	60	-	40	80	-	-	40	60	100	60	100	60	
GENYONEMUS LINEATUS	300	120	200	220	120	60	80	100	-	20	40	20	
METEROSTICHUS ROSTRATUS	-	-	-	-	-	-	-	-	-	-	-	-	
CLINIDAE, TYPE A	20	-	20	-	40	-	20	60	80	20	180	300	
HYPSOBLENNIUS SPP.	20	-	20	20	20	20	20	20	40	60	100	-	
GCBIIDAE, UNID.	-	-	-	-	-	-	-	-	-	20	-	-	
TYPHLOGOBIUS CALIFORNIENSIS	60	20	40	80	100	80	40	60	160	160	400	480	
GCBIIDAE, TYPE A	40	100	100	60	20	40	40	60	20	-	-	60	
LEPIDOGORBIUS LEPIDUS	-	-	-	20	-	-	-	-	-	-	-	-	
LYTHRYPHUS SP.	-	-	-	-	-	-	-	-	-	-	-	-	
PEPRILUS SIMILLIMUS	-	-	-	-	-	-	-	-	80	-	-	-	
CITHARICHTHYS SPP.	-	-	-	-	-	-	-	-	-	-	-	-	
PARALICHTHYS/XYSTREURYS LICLEPIS	-	20	-	20	-	-	-	-	-	-	-	-	
HYPSOPSETTA GUTTULATA	-	-	-	-	-	-	-	-	-	-	-	-	
PAROPHRYS VETULUS	-	-	-	20	-	-	-	-	-	-	-	-	
PISCES LARVAE, UNID.	100	20	80	60	40	-	60	20	40	80	20	40	
PISCES YOLK SAC LARVAE	80	100	80	140	20	40	-	20	40	-	180	20	
NUMBER OF INDIVIDUALS	2280.	2600.	2100.	2440.	1240.	720.	1140.	1640.	2460.	1840.	3260.	2460.	
NUMBER OF SPECIES	11.	9.	10.	12.	9.	7.	9.	10.	10.	8.	9.	10.	

Table VI-55. Fish egg concentrations for SONGS ichthyoplankton sampling program 30-31 May 1979.

## NUMBER OF EGGS/1000 M\*\*3

STATION: NET TYPE REPLICATE	T-1		T-2		C-1		C-2	
	ANCHOVY	TOTAL	ANCHOVY	TOTAL	ANCHOVY	TOTAL	ANCHOVY	TOTAL
MANTA 1	0	8627	255	31968	98	41725	31	16362
2	127	11392	155	24118	0	14860	141	31705
3	31	15234	125	31059	102	17385	311	37239
4	126	49644	336	33547	33	19014	130	29830
BCNGO 1	106	12882	209	16278	55	14676	98	13564
2	94	35826	330	20101	19	10294	58	17008
3	89	17958	197	25813	19	3021	20	10993
4	240	34905	240	26433	0	5202	35	7349
AURIGA 1	0	2494	215	7801	152	5297	0	4857
2	39	4482	139	6957	0	2264	0	2911
3	112	19149	38	4850	0	2967	40	3005
4	0	6898	36	3967	0	2882	118	2957

TIME OF DAY: INTAKE-PUMP REPLICATE	MORNING		AFTERNOON		SUNSET	
	ANCHOVY	TOTAL	ANCHOVY	TOTAL	ANCHOVY	TOTAL
1	40	5220	20	2060	20	3220
2	60	4900	40	2440	40	4700
3	60	4880	20	2780	20	4440
4	120	4880	40	2940	0	8640

TIME OF DAY: INTAKE-PUMP REPLICATE	BEFORE MIDNIGHT		AFTER MIDNIGHT		SUNRISE	
	ANCHOVY	TOTAL	ANCHOVY	TOTAL	ANCHOVY	TOTAL
1	20	20080	140	21020	40	5400
2	100	26680	80	18480	120	5820
3	120	23640	80	12880	60	5880
4	80	34840	40	5240	20	6800



Table VI-56. Number of individuals collected in SONGS offshore tows, 30-31 May 1979.

SPECIES NAME	MANTA NET NUMBER OF INDIVIDUALS/1000M <sup>3</sup>																
	REPLICATE:	STATION T-1				STATION T-2				STATION C-1				STATION C-2			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
FRAGAULIS MORDAX	31	127	-	32	60	93	156	31	-	-	-	-	31	-	35	32	
CCULLAHIS SAIRA	-	-	-	-	32	-	-	31	-	-	54	-	31	35	35	-	
ATHERINOPS AFFINIS	31	32	-	32	-	-	-	-	65	68	68	33	-	-	35	97	
LEURESTHES TENNIS	1117	1177	966	314	4526	867	997	1498	911	1052	1290	1408	406	211	3417	2500	
ATHERINOPSIS CALIFORNENSIS	2486	1496	1215	348	159	526	685	489	98	136	102	67	156	984	104	130	
SERIPHUS PULITUS	31	-	-	-	96	402	405	275	33	-	-	-	-	35	-	97	
GYVONEMIS LINEATUS	-	-	-	-	-	-	-	-	-	-	-	-	31	-	-	-	
HYPORHAEUS SPP.	-	32	93	63	127	-	62	61	586	170	475	267	562	387	1139	324	
CLYPHOGORUS NICHOLSII	-	-	-	-	-	31	-	-	-	-	-	-	31	-	-	-	
TYPHLOGORBUS CALIFORNENSIS	31	-	-	32	-	-	-	31	-	-	34	-	-	-	-	-	
GERITIDAE, TYPE A	-	-	-	-	-	-	-	-	-	-	34	-	-	-	-	-	
GERITIDAE, TYPE B	-	-	-	-	32	-	-	-	-	-	-	-	-	-	-	-	
PARALICHTHYS CALIFORNICUS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	35	-	
PISCES LARVAE, UNID.	-	-	62	-	60	-	-	-	-	-	33	-	62	-	35	-	
PISCES YOLK SAC LARVAE	155	95	-	95	191	186	343	550	33	30	-	100	-	-	35	130	
NUMBER OF INDIVIDUALS	4242	2959	2536	918	5291	2185	2679	2935	1726	1524	1969	1937	1310	1652	4870	3110	
NUMBER OF SPECIES	7	6	4	7	9	7	7	7	6	7	5	7	8	5	9	7	

SPECIES NAME	MORQUE NET NUMBER OF INDIVIDUALS/1000M <sup>3</sup>																
	REPLICATE:	STATION T-1				STATION T-2				STATION C-1				STATION C-2			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
FRAGAULIS MORDAX	-	58	18	-	-	128	90	55	237	340	556	391	117	59	118	87	
TRIPHTICURUS MEXICANUS	18	-	18	-	19	37	49	37	-	-	-	-	-	-	-	-	
GEREUSOX RHESODON	-	-	-	-	76	202	158	37	36	57	74	-	20	-	-	-	
GEREUSOXIDAE, TYPE A	-	-	-	-	18	-	-	-	-	-	-	-	-	-	-	-	
LEURESTHES TENNIS	-	19	-	-	-	-	39	-	36	-	37	20	-	39	-	-	
ATHERINOPSIS CALIFORNENSIS	53	-	18	-	-	-	20	-	-	-	37	20	-	-	-	-	
SERIPHUS PULITUS	-	38	18	18	19	128	50	111	-	19	56	20	20	19	20	-	
GYVONEMIS LINEATUS	35	-	-	-	-	37	70	-	56	38	74	98	117	-	-	115	
HETEROSTICHUS ROSTRATUS	18	19	-	-	-	110	118	37	-	19	37	-	-	-	-	-	
CLINIDAE, TYPE A	-	-	18	-	57	18	-	18	-	96	56	-	-	20	-	-	
HYPORHAEUS SPP.	71	19	18	18	95	55	99	37	-	-	-	39	39	254	413	192	
TYPHLOGORBUS CALIFORNENSIS	-	-	18	-	-	-	-	-	18	38	-	-	-	-	-	-	
GERITIDAE, TYPE A	-	-	-	-	-	18	-	-	91	96	93	20	20	19	-	17	
LEPTOGORBUS LEPIDUS	-	-	-	-	-	-	20	-	18	-	19	39	-	-	-	-	
LYTHRYPHUS SP.	-	-	-	-	76	18	-	-	-	-	-	-	-	-	-	-	
CYLERIUS PICTUS	-	-	-	-	-	-	-	18	-	-	-	-	-	-	-	-	
LIPARIS MUCOSUS	-	-	-	-	-	18	-	-	-	-	-	-	-	-	-	-	
GIRELLA NIGRICANS	-	-	-	-	95	-	-	18	-	-	-	-	-	-	-	-	
PARALICHTHYS CALIFORNICUS	-	-	-	-	19	-	-	-	-	-	-	-	-	-	-	-	
PLEUROICHTHYS BITTERI	-	-	-	-	-	20	-	-	-	-	-	-	-	-	-	-	
PISCES LARVAE, UNID.	18	-	-	55	133	37	39	-	-	-	19	-	-	19	20	17	
PISCES YOLK SAC LARVAE	-	38	36	-	57	147	177	147	73	-	-	39	78	39	20	-	
NUMBER OF INDIVIDUALS	213	171	162	91	646	971	966	515	545	764	1021	686	431	408	591	628	
NUMBER OF SPECIES	6	6	6	3	10	14	13	10	8	9	10	9	8	7	5	5	

SPECIES NAME	MURICA NET NUMBER OF INDIVIDUALS/1000M <sup>3</sup>																
	REPLICATE:	STATION T-1				STATION T-2				STATION C-1				STATION C-2			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
FRAGAULIS MORDAX	457	944	262	1065	644	730	649	216	4535	2151	3005	2201	4662	8143	5101	1617	
TRIPHTICURUS MEXICANUS	-	-	-	-	-	-	-	-	-	-	-	-	78	-	-	-	
GEREUSOX RHESODON	291	354	299	596	1109	696	1146	649	76	-	116	40	157	295	119	79	
ATHERINOPSIS CALIFORNENSIS	-	-	37	43	-	-	-	-	38	-	-	-	-	-	-	-	
SERIPHUS PULITUS	291	118	75	298	143	-	-	36	419	38	39	80	196	774	633	552	
GYVONEMIS LINEATUS	166	1101	262	383	787	974	840	1046	2858	1321	1425	360	588	626	554	197	
HETEROSTICHUS ROSTRATUS	208	275	75	85	250	76	153	72	38	75	39	40	-	-	-	-	
CLINIDAE, TYPE A	83	39	37	255	72	-	-	-	114	-	-	120	78	111	119	39	
HYPORHAEUS SPP.	-	-	-	-	-	-	-	-	38	-	-	-	-	-	-	-	
GERITIDAE, TYPE A	-	-	-	-	72	-	-	-	-	-	-	-	39	74	-	-	
GERITIDAE, TYPE B	42	42	75	468	-	-	76	-	343	151	231	160	39	37	-	158	
LEPTOGORBUS LEPIDUS	208	197	37	213	-	-	-	-	76	38	116	160	-	74	-	-	
GERITIDAE, TYPE D	-	-	-	-	-	-	-	-	-	-	-	-	-	37	-	-	
CYLERIUS PICTUS	-	-	-	-	36	-	-	-	-	-	-	-	-	-	-	-	
PARALICHTHYS CALIFORNICUS	-	-	-	-	-	-	-	36	-	-	-	-	-	-	-	-	
PLEUROICHTHYS BITTERI	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	40	
PISCES LARVAE, UNID.	416	118	-	43	-	209	38	108	38	226	193	-	39	-	-	158	
PISCES YOLK SAC LARVAE	-	-	37	-	-	-	-	-	-	-	-	-	-	-	-	-	
NUMBER OF INDIVIDUALS	2162	3578	1196	3449	3113	2679	2902	2163	8611	4000	5164	3201	5876	10171	6566	2800	
NUMBER OF SPECIES	9	9	10	10	8	5	6	7	12	7	8	8	9	9	6	7	

Table VI-57. Number of individuals collected in SONGS intake samples, 30-31 May 1979.

INTAKE SAMPLE NUMBER OF INDIVIDUALS/1000M**3													
SPECIES NAME	REPLICATE:	MORNING:				AFTERNOON:				SUNSET:			
		1	2	3	4	1	2	3	4	1	2	3	4
ENGRAULIS MORDAX		120	120	80	100	-	-	-	-	-	-	-	-
TRIPHOTURUS MEXICANUS		-	-	-	-	-	-	-	-	-	-	-	-
STENOBRACHIUS LEUCOPSARUS		-	-	20	-	-	-	-	-	-	-	-	-
GOBIESOX RHESSODON		40	40	100	20	-	-	-	-	60	20	-	-
LEURESTHES TENUIS		-	40	-	-	-	-	-	-	-	-	-	-
SERIPHUS POLITUS		20	-	60	60	-	-	-	-	-	-	-	-
GENYONEMUS LINEATUS		60	-	40	-	-	-	-	-	-	-	-	-
HETEROSTICHUS ROSTRATUS		20	-	80	20	-	-	-	-	-	-	-	-
CLINIDAE, TYPE A		-	40	80	-	-	-	-	-	-	-	-	-
HYPSOBLENNIUS SPP.		20	-	60	40	80	20	40	-	120	80	-	20
TYPHLOGOBIUS CALIFORNIENSIS		20	20	-	40	-	-	-	-	-	-	20	-
GOBIIIDAE, TYPE A		60	60	140	120	-	-	-	-	-	-	-	20
LEPIDOGOBIUS LEPIDUS		40	60	60	40	-	-	-	-	-	-	20	-
PISCES LARVAE, UNID.		-	40	-	20	-	-	-	-	-	-	-	40
PISCES YOLK SAC LARVAE		-	60	160	140	-	-	20	-	40	-	-	-
NUMBER OF INDIVIDUALS		400.	480.	880.	600.	80.	20.	60.	0.	220.	100.	40.	80.
NUMBER OF SPECIES		9.	9.	11.	10.	1.	1.	2.	0.	3.	2.	2.	3.
EVENING: NIGHT: SUNRISE:													
SPECIES NAME	REPLICATE:	1	2	3	4	1	2	3	4	1	2	3	4
ENGRAULIS MORDAX		-	40	20	20	60	20	-	220	-	40	360	100
TRIPHOTURUS MEXICANUS		-	-	-	-	-	-	-	20	-	-	-	-
STENOBRACHIUS LEUCOPSARUS		-	-	-	-	-	-	-	-	-	-	-	-
GOBIESOX RHESSODON		20	-	20	-	20	60	40	280	20	-	60	80
LEURESTHES TENUIS		-	-	-	20	-	20	-	-	-	-	-	-
SERIPHUS POLITUS		20	-	40	20	100	-	20	20	-	-	-	80
GENYONEMUS LINEATUS		40	-	-	60	-	20	-	-	20	-	-	-
HETEROSTICHUS ROSTRATUS		-	-	-	-	-	20	20	180	40	40	40	60
CLINIDAE, TYPE A		-	-	20	-	100	-	60	100	100	20	40	80
HYPSOBLENNIUS SPP.		20	-	40	-	-	20	20	20	-	-	-	-
TYPHLOGOBIUS CALIFORNIENSIS		-	-	-	-	60	40	-	-	-	-	-	-
GOBIIIDAE, TYPE A		20	20	40	-	-	40	20	20	40	60	40	80
LEPIDOGOBIUS LEPIDUS		-	-	-	40	-	-	-	60	20	-	-	60
PISCES LARVAE, UNID.		-	-	-	-	-	-	20	20	200	40	-	-
PISCES YOLK SAC LARVAE		-	-	-	-	-	-	-	20	-	-	20	-
NUMBER OF INDIVIDUALS		120.	60.	180.	160.	340.	240.	200.	960.	440.	200.	560.	540.
NUMBER OF SPECIES		5.	2.	6.	5.	5.	8.	7.	11.	7.	5.	6.	7.

Table VI-58. Fish egg concentrations for SONGS ichthyoplankton sampling program 27-28 June 1979.

		NUMBER OF EGGS/1000 M**3							
STATION: NET TYPE	REPLICATE	T-1		T-2		C-1		C-2	
		ANCHOVY	TOTAL	ANCHOVY	TOTAL	ANCHOVY	TOTAL	ANCHOVY	TOTAL
MANTA	1	0	4481	0	5220	0	19338	0	18146
	2	0	3573	0	8446	0	12704	40	17560
	3	0	3058	0	17829	0	9716	0	16738
	4	0	7259	0	23058	0	21009	0	16759
PUNGO	1	19	910	0	1233	0	1624	0	2978
	2	0	385	0	1056	0	2387	0	2513
	3	0	784	0	2466	0	2276	17	2091
	4	0	689	0	1910	18	1545	0	1998
AURIGA	1	0	105	0	668	85	737	30	450
	2	0	37	0	207	0	406	0	856
	3	0	106	0	272	0	363	33	335
	4	0	99	0	3262	31	2118	31	597

TIME OF DAY: INTAKE-PUMP REPLICATE	MORNING		AFTERNOON		SUNSET	
	ANCHOVY	TOTAL	ANCHOVY	TOTAL	ANCHOVY	TOTAL
1	0	170	30	540	0	90
2	0	160	0	760	0	420
3	0	300	0	580	0	260
4	0	330	0	390	0	330

TIME OF DAY: INTAKE-PUMP REPLICATE	BEFORE MIDNIGHT		AFTER MIDNIGHT		SUNRISE	
	ANCHOVY	TOTAL	ANCHOVY	TOTAL	ANCHOVY	TOTAL
1	10	150	0	260	0	340
2	0	180	0	230	0	240
3	0	300	0	290	0	180
4	0	270	0	350	0	200

Table VI-59. Number of individuals collected in SONGS offshore tows, 27-28 June 1979.

MANTA NET NUMBER OF INDIVIDUALS/1000M\*\*3

SPECIES NAME	STATION T-1				STATION T-2				STATION C-1				STATION C-2			
	REPLICATE: 1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
ENGRAULIS MORDAX	-	33	-	38	35	-	-	-	40	-	-	72	-	-	-	-
EXOCOETIDAE, TYPE A	-	-	-	-	-	-	-	-	40	-	39	72	-	-	36	-
ATHERINOPS AFFINIS	-	-	-	-	35	-	-	-	40	157	-	-	-	-	-	-
LEURESTHES TENUIS	181	33	316	344	247	558	427	425	481	551	548	793	837	960	789	920
ATHERINOPSIS CALIFORNIENSIS	-	-	-	-	-	-	-	-	120	-	-	36	-	-	36	-
SERIPIHUS POLITUS	-	-	-	-	-	120	36	33	-	79	-	-	120	-	36	-
HYPSPYPOPS RUBICUNDA	-	-	-	-	-	-	-	-	-	-	-	-	-	40	-	
HYPBORLENNIUS GENTILIS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	36	38
HYPBORLENNIUS GILBERTI	-	-	-	38	-	-	-	-	-	-	-	-	-	-	40	-
HYPBORLENNIUS JENKINSI	-	-	-	-	-	80	-	-	-	-	-	-	120	120	-	-
HYPBORLENNIUS SPP.	36	66	35	-	-	-	36	98	40	197	-	-	558	600	609	537
GOBIIDAE, TYPE A	-	-	-	-	-	-	-	-	-	-	-	36	-	-	-	-
CITHARICHTHYS SPP.	-	-	-	-	-	-	-	-	-	-	-	-	-	120	-	-
PISCES LARVAE, UNID.	-	-	-	-	-	-	36	-	-	-	-	39	-	40	-	-
PISCES YOLK SAC LARVAE	-	-	35	76	-	159	142	164	80	-	78	216	199	-	36	307
NUMBER OF INDIVIDUALS	217.	132.	386.	496.	317.	917.	677.	720.	841.	984.	704.	1225.	1834.	1920.	1578.	1802.
NUMBER OF SPECIES	2.	3.	3.	4.	3.	4.	5.	4.	7.	4.	4.	6.	5.	7.	7.	4.

BONGU NET NUMBER OF INDIVIDUALS/1000M\*\*3

SPECIES NAME	STATION T-1				STATION T-2				STATION C-1				STATION C-2			
	REPLICATE: 1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
ENGRAULIS MORDAX	38	235	19	56	35	168	78	144	18	160	78	90	156	237	236	411
GOBIESOX RHESODON	19	67	75	37	194	151	16	57	-	-	-	-	-	-	-	-
LEURESTHES TENUIS	-	-	-	-	-	-	-	-	18	-	-	-	17	-	-	-
SERIPIHUS POLITUS	-	17	-	19	18	17	16	-	36	-	-	36	35	109	118	75
HYPSPYPOPS RUBICUNDA	-	-	-	19	-	-	-	-	-	-	-	-	-	-	-	-
PARACLINUS INTEGRIPINNIS	19	-	-	-	18	17	-	-	-	-	-	-	-	-	-	-
METROSTICHUS ROSTRATUS	-	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CLINIDAE, TYPE A	-	-	-	-	18	34	-	-	18	-	-	-	-	-	-	-
HYPBORLENNIUS JENKINSI	-	-	-	-	-	-	-	-	-	-	-	-	-	18	-	-
HYPBORLENNIUS SPP.	76	-	-	37	176	34	109	-	18	20	-	-	554	510	910	93
TYPHLOGOBIOUS CALIFORNIENSIS	-	-	19	-	-	-	-	-	-	-	19	-	17	18	-	-
GOBIIDAE, TYPE A	19	50	56	37	18	50	31	57	-	-	-	18	-	-	51	-
LEPIDOGOBIOUS LEPIDUS	-	-	-	-	-	-	-	-	-	-	-	-	-	18	-	-
LYTHRYPHUS SP.	-	-	-	-	-	-	-	-	-	-	-	-	17	-	-	-
PARALICHTHYS CALIFORNICUS	-	-	-	-	-	-	-	-	-	-	-	-	-	18	-	-
CITHARICHTHYS SPP.	-	-	-	-	-	-	-	-	-	-	-	18	-	-	-	-
PARALICHTHYS/XYSTREURYS LICLEPIS	-	-	-	-	-	-	-	-	-	-	19	-	-	-	-	-
PLEURONICHTHYS RITTERI	-	-	-	-	-	-	-	-	-	-	19	-	-	-	-	-
PISCES LARVAE, UNID.	-	17	19	-	18	-	-	14	-	-	-	-	17	36	34	19
PISCES YOLK SAC LARVAE	-	-	-	-	-	17	-	14	18	-	19	18	-	-	34	-
NUMBER OF INDIVIDUALS	171.	403.	188.	205.	495.	488.	250.	286.	176.	180.	154.	180.	813.	964.	1383.	598.
NUMBER OF SPECIES	5.	6.	5.	6.	8.	8.	5.	5.	6.	2.	5.	5.	7.	8.	6.	4.

AURIGA NET NUMBER OF INDIVIDUALS/1000M\*\*3

SPECIES NAME	STATION T-1				STATION T-2				STATION C-1				STATION C-2			
	REPLICATE: 1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
ENGRAULIS MORDAX	562	847	1023	1553	291	173	515	184	397	261	196	-	1470	2537	2410	1887
GOBIESOX RHESODON	492	111	706	198	320	345	303	210	170	145	28	-	150	127	-	94
SERIPIHUS POLITUS	2460	1253	1588	1487	-	-	61	53	1588	753	112	31	-	32	67	31
GENYONEMUS LINEATUS	105	37	71	33	-	-	-	-	57	87	-	-	-	-	-	-
HYPSPYPOPS RUBICUNDA	-	-	-	-	-	-	-	-	-	-	-	31	-	-	-	-
PARACLINUS INTEGRIPINNIS	-	-	-	-	-	-	-	-	-	-	-	-	30	-	-	-
METROSTICHUS ROSTRATUS	70	111	71	132	-	69	30	26	28	-	28	-	-	-	-	-
CLINIDAE, TYPE A	176	37	35	-	-	104	212	105	85	58	28	-	-	-	32	-
CLINIDAE, TYPE B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	31
HYPBORLENNIUS JENKINSI	-	-	-	-	-	-	-	-	28	-	-	-	-	-	-	-
HYPBORLENNIUS SPP.	-	-	-	-	-	35	-	53	28	-	-	249	30	32	-	31
TRIDENTIGER TRIGONOCOPMHALUS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	33
GOBIIDAE, TYPE A	105	184	388	33	-	35	30	105	28	58	-	-	-	-	33	-
LEPIDOGOBIOUS LEPIDUS	-	111	106	66	-	-	-	-	-	-	-	-	-	-	-	-
LYTHRYPHUS SP.	-	-	-	-	-	-	-	-	28	-	-	-	-	-	-	-
SCOMBER JAPONICUS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	31
PLEURONICHTHYS VERTICALIS	-	-	-	-	-	-	-	-	-	-	-	-	60	-	-	-
PISCES LARVAE, UNID.	105	74	35	-	58	35	121	26	57	29	-	31	30	63	-	-
NUMBER OF INDIVIDUALS	4075.	2765.	4023.	3502.	669.	796.	1272.	762.	2494.	1391.	392.	342.	1770.	2823.	2543.	2105.
NUMBER OF SPECIES	8.	9.	9.	7.	3.	7.	7.	8.	11.	7.	5.	4.	6.	6.	4.	6.

Table VI-60. Number of individuals collected in SONGS intake samples,  
27-28 June 1979.

INTAKE SAMPLE NUMBER OF INDIVIDUALS/1000M**3													
SPECIES NAME	REPLICATE:	MORNING:				AFTERNOON:				SUNSET:			
		1	2	3	4	1	2	3	4	1	2	3	4
ENGRAULIS MORDAX	-	20	30	-	-	-	10	10	-	20	70	160	-
GOBIESOX RHESSODON	10	10	-	10	-	-	-	-	10	-	-	10	-
LEURESTHES TENUIS	-	-	-	-	10	-	-	-	-	-	-	-	-
ATHERINOPSIS CALIFORNIENSIS	-	-	-	-	-	-	-	-	-	-	-	-	-
SERIPHUS POLITUS	10	-	-	-	-	-	-	-	-	10	10	-	-
PARACLINUS INTEGRIPINNIS	-	-	-	-	-	-	-	-	-	-	-	-	-
METEROSTICHUS ROSTRATUS	-	-	-	-	-	-	-	-	-	10	-	-	-
CLINIDAE, TYPE A	-	-	-	10	10	-	-	20	-	10	-	-	-
HYPSOBLENNIUS SPP.	10	30	20	-	250	80	280	170	140	130	140	60	-
TYPHLOGOBIUS CALIFORNIENSIS	-	10	10	-	-	-	-	-	-	-	-	-	-
GOBIIDAE, TYPE A	-	20	10	-	10	10	-	10	-	-	-	20	-
LEPIDOGOBIUS LEPIDUS	60	20	30	-	-	-	-	-	10	-	10	10	-
PLEURONICHTHYS VERTICALIS	10	-	-	-	-	-	-	-	-	-	-	-	-
PISCES LARVAE, UNID.	-	10	-	-	-	20	-	40	10	-	-	-	-
PISCES YOLK SAC LARVAE	-	-	-	-	-	-	-	-	-	10	-	-	-
NUMBER OF INDIVIDUALS		100.	120.	100.	20.	280.	110.	290.	250.	170.	190.	230.	260.
NUMBER OF SPECIES		5.	7.	5.	2.	4.	3.	2.	5.	4.	6.	4.	5.
-----													
SPECIES NAME	REPLICATE:	EVENING:				NIGHT:				SUNRISE:			
		1	2	3	4	1	2	3	4	1	2	3	4
ENGRAULIS MORDAX		330	910	1690	770	510	290	280	300	300	220	80	-
GOBIESOX RHESSODON		20	40	60	40	20	10	-	30	30	30	10	10
LEURESTHES TENUIS		-	-	-	-	-	-	-	-	-	-	-	-
ATHERINOPSIS CALIFORNIENSIS		-	-	10	-	-	-	-	-	-	-	-	-
SERIPHUS POLITUS		20	30	80	120	30	10	10	40	50	-	-	-
PARACLINUS INTEGRIPINNIS		-	-	-	-	10	-	-	-	-	-	-	-
METEROSTICHUS ROSTRATUS		10	10	10	-	10	-	-	10	10	-	10	-
CLINIDAE, TYPE A		20	10	20	-	20	-	-	-	30	10	10	10
HYPSOBLENNIUS SPP.		-	-	-	10	130	100	110	50	-	10	20	60
TYPHLOGOBIUS CALIFORNIENSIS		-	-	-	-	-	10	10	50	90	20	20	40
GOBIIDAE, TYPE A		-	40	70	90	40	80	40	80	150	60	50	20
LEPIDOGOBIUS LEPIDUS		-	10	10	-	-	-	20	20	-	-	-	-
PLEURONICHTHYS VERTICALIS		-	-	-	-	-	-	-	-	-	-	10	-
PISCES LARVAE, UNID.		10	10	10	-	10	-	-	-	-	10	-	20
PISCES YOLK SAC LARVAE		-	-	-	-	-	20	30	-	10	-	-	-
NUMBER OF INDIVIDUALS		410.	1060.	1960.	1030.	780.	520.	550.	580.	670.	360.	210.	160.
NUMBER OF SPECIES		6.	8.	9.	5.	9.	7.	8.	8.	8.	7.	8.	6.

Table VI-61. Fish egg concentrations for SONGS ichthyoplankton sampling program 30-31 July 1979.

## NUMBER OF EGGS/1000 M\*\*3

STATION: NET TYPE	REPLICATE	T-1		T-2		C-1		C-2	
		ANCHOVY	TOTAL	ANCHOVY	TOTAL	ANCHOVY	TOTAL	ANCHOVY	TOTAL
MANTA	1	1755	6305	5482	19523	973	9844	378	5700
	2	2906	6940	4349	8216	1217	9032	112	4701
	3	988	7649	3556	8556	1201	11011	370	4630
	4	365	2482	2964	11557	47	437	1395	8332
BONGO	1	20	394	1118	1858	0	1871	72	685
	2	0	268	238	1410	59	1991	0	535
	3	39	471	229	764	54	1167	0	470
	4	0	452	317	2298	19	453	40	2056
AURIGA	1	0	508	45	3844	0	427	0	406
	2	0	271	0	562	0	407	0	1920
	3	0	212	35	972	0	589	36	9381
	4	0	546	0	0	42	1128	0	839

TIME OF DAY: INTAKE-PUMP REPLICATE	MORNING		AFTERNOON		SUNSET	
	ANCHOVY	TOTAL	ANCHOVY	TOTAL	ANCHOVY	TOTAL
1	0	1280	0	1520	0	280
2	80	800	40	600	0	320
3	0	840	0	1160	0	400
4	40	600	0	3600	0	360

TIME OF DAY: INTAKE-PUMP REPLICATE	BEFORE MIDNIGHT		AFTER MIDNIGHT		SUNRISE	
	ANCHOVY	TOTAL	ANCHOVY	TOTAL	ANCHOVY	TOTAL
1	0	2240	0	2240	200	3240
2	0	360	0	2520	160	3200
3	0	1560	40	5800	360	4480
4	0	1800	0	2560	40	5120

Table VI-62. Number of individuals collected in SONGS offshore tows, 30-31 July 1979.

MAKTA NET NUMBER OF INDIVIDUALS/1000M\*\*3

SPECIES NAME	STATION T-1				STATION T-2				STATION C-1				STATION C-2			
	REPLICATE: 1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
ENGRAULIS MORDAX	327	821	769	182	495	632	148	375	272	479	360	253	275	709	519	452
CTOPHIDIUM SCRIPPSI	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	38
LEURESTHES TENUIS	30	-	37	36	-	-	-	-	-	-	-	-	-	37	-	-
SYNGNATHUS SP.	-	-	-	-	-	-	-	-	-	-	-	-	-	37	-	-
SFRIOLOA DORSALIS	-	-	-	-	-	-	-	-	-	-	80	-	103	149	74	38
SERIPHUS POLITUS	-	34	-	-	-	-	-	-	-	-	-	181	34	37	37	113
MYPSYPOPS RUBICUNDA	-	-	-	-	-	-	-	-	-	-	40	72	343	560	111	75
XYJULIS CALIFORNICA	-	-	-	36	-	-	-	38	-	74	40	72	137	75	-	38
MYPSOBLENNIUS JENKINSI	59	-	-	36	-	-	-	-	-	-	-	-	-	-	-	-
MYPSOBLENNIUS SPP.	149	68	73	36	-	37	111	75	-	111	-	144	103	37	37	38
TYPHLOGOBIOUS CALIFORNIENSIS	-	-	37	-	-	-	-	-	-	-	-	-	-	-	-	-
Gobiidae, Type A	-	-	-	-	-	-	-	-	-	37	-	-	-	-	-	-
CITHARICHTHYS SPP.	-	-	-	-	-	-	-	-	-	-	-	-	-	149	37	-
PISCES LARVAE, UNID.	-	-	-	-	-	-	37	-	-	-	-	-	-	34	-	-
PISCES YOLK SAC LARVAE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NUMBER OF INDIVIDUALS	565.	923.	916.	290.	495.	669.	296.	488.	272.	701.	520.	722.	1029.	1827.	815.	792.
NUMBER OF SPECIES	4.	3.	4.	4.	1.	2.	3.	3.	1.	4.	4.	5.	7.	10.	6.	7.

BONGO NET NUMBER OF INDIVIDUALS/1000M\*\*3

SPECIES NAME	STATION T-1				STATION T-2				STATION C-1				STATION C-2			
	REPLICATE: 1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
ENGRAULIS MORDAX	98	393	432	132	152	220	286	2159	354	453	790	2527	4994	3130	4268	1542
STENOBRACHIUS LEUCOPSARUS	-	-	-	-	-	-	-	-	20	-	-	38	36	-	19	-
GOBIESOX RHESSODON	-	-	59	19	38	-	-	-	-	20	-	-	-	16	19	20
CTOPHIDIUM SCRIPPSI	-	-	-	-	-	-	-	-	-	-	-	19	36	-	19	-
PARALABRAX CLATHRATUS	-	-	-	-	-	-	19	-	-	-	-	-	-	-	-	-
PARALABRAX NEBULIFER	-	-	-	-	-	-	-	-	-	-	18	-	-	-	19	-
PARALABRAX SPP.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16	-
TRACHURUS SYMMETRICUS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16	19
ANISOTREMUS DAVIDSONI	-	18	-	-	-	-	-	-	-	-	-	-	-	-	16	-
SERIPHUS POLITUS	157	89	275	19	76	18	19	-	158	118	449	57	18	-	19	59
SCIAENIDAE, TYPE C	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16	-
PIMELOMETOPON PULCHRUM	-	-	-	-	-	-	-	-	-	-	-	19	36	-	75	-
XYJULIS CALIFORNICA	-	-	-	-	-	-	-	-	-	-	-	-	18	-	-	-
SPHYRAENA ARGENTEA	-	18	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PARACLAUS INTEGRIPINNIS	-	36	98	-	-	-	19	-	-	-	-	-	-	-	-	-
CLINIDAE, TYPE A	-	-	-	-	-	-	-	20	-	-	-	19	-	-	-	-
MYPSOBLENNIUS JENKINSI	-	-	59	-	38	37	76	20	20	59	108	19	72	49	-	40
MYPSOBLENNIUS SPP.	39	-	-	-	-	-	-	-	-	-	-	-	18	-	-	-
Gobiidae, UNID.	-	-	-	-	-	18	-	-	-	-	-	-	-	-	-	-
TYPHLOGOBIOUS CALIFORNIENSIS	-	-	20	-	-	-	-	-	-	-	-	-	-	-	-	-
Gobiidae, Type A	-	18	79	38	-	-	-	20	79	-	36	-	-	-	-	-
SCOMBER JAPONICUS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16	38
LIPARIDIDAE, UNID.	-	-	-	-	-	18	-	-	-	-	-	-	-	-	-	-
PARALICHTHYS CALIFORNICUS	-	-	20	-	-	-	-	-	-	-	-	-	-	-	-	-
PISCES LARVAE, UNID.	20	36	20	-	19	-	-	20	-	-	-	-	-	-	-	38
PISCES YOLK SAC LARVAE	-	-	-	-	-	-	-	-	-	20	-	19	-	-	-	-
NUMBER OF INDIVIDUALS	314.	608.	1062.	208.	323.	311.	419.	2239.	631.	670.	1401.	2717.	5228.	3275.	4533.	1661.
NUMBER OF SPECIES	4.	7.	9.	4.	5.	5.	5.	5.	5.	5.	5.	8.	8.	8.	10.	4.

AURIGA NET NUMBER OF INDIVIDUALS/1000M\*\*3

SPECIES NAME	STATION T-1				STATION T-2				STATION C-1				STATION C-2			
	REPLICATE: 1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
ENGRAULIS MORDAX	1152	508	1238	1794	581	2098	2881	-	194	333	118	84	812	753	1588	991
PERICHTHYS NOTATUS	-	-	35	-	-	75	-	-	-	-	-	-	-	-	-	38
GOBIESOX RHESSODON	136	34	212	-	179	487	243	-	-	37	236	42	111	38	36	38
ANISOTREMUS DAVIDSONI	-	-	-	-	45	-	-	-	-	-	-	-	-	-	-	-
SERIPHUS POLITUS	7859	5890	5942	3508	-	112	35	-	6831	20236	39416	2799	-	38	36	38
GENYONEMUS LINEATUS	-	-	-	-	-	-	-	-	-	37	-	42	-	-	-	-
HETEROSTICHUS ROSTRATUS	-	-	106	-	45	450	-	-	-	-	39	-	-	-	-	-
CLINIDAE, TYPE A	68	-	-	-	134	-	-	-	-	-	-	-	-	-	-	-
Gobiidae, Type A	542	-	318	195	-	-	69	-	543	481	471	125	37	-	-	38
LEPIDOGOBIOUS LEPIDUS	102	372	106	39	-	-	-	-	39	37	157	-	-	-	-	-
GILLICHTHYS MIRABILIS	-	-	35	39	-	-	-	-	-	-	-	-	-	-	-	-
PISCES LARVAE, UNID.	-	34	-	39	223	37	243	-	-	74	39	-	37	-	-	-
NUMBER OF INDIVIDUALS	9859.	6838.	7992.	5694.	1207.	3259.	3679.	0.	7646.	21272.	40476.	3092.	997.	829.	1660.	1143.
NUMBER OF SPECIES	6.	5.	8.	6.	6.	6.	6.	0.	5.	8.	7.	5.	4.	3.	3.	5.





## VII. SIZE-FREQUENCY DISTRIBUTIONS OF TARGET SPECIES LARVAE

Larval size-frequency distributions were determined to assess the possibility of size-selective entrainment by the offshore intake, and to relate larval distributions between upcoast-downcoast and inshore-offshore stations. Size frequencies were determined beginning in March 1978.

### METHODS

Three species of larvae were chosen as target species on the basis of offshore abundance and impingement of adult forms by SONGS Unit 1. These species were northern anchovy (Engraulis mordax), queenfish (Seriphus politus), and white croaker (Genyonemus lineatus). Following identification by dissection microscopy, all individuals of these species were measured (standard length) in 3 mm size classes ranging from 0 to 30 mm.

### RESULTS

Size-frequency distributions of target species larvae are presented for each replicate of each gear. Abundances are expressed as #/1000 m<sup>3</sup>.

Table VII-1. Length-frequency information for *Engraulis mordax* from offshore tows, 27-28 March 1978.

		NUMBER OF INDIVIDUALS/1000 M**3*																								
NET TYPE REPLICATE		T-1										T-2														
		0-3			3-6			SIZE CLASS (MM.)				0-3			3-6			6-9		SIZE CLASS (MM.)			21-24		27-30	
		0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30					
MANTA	1	135	322	0	10	21	21	0	10	10	0	1892	596	19	0	0	0	9	0	0	37					
	2	126	284	0	0	0	0	0	0	0	11	2590	2091	0	0	0	0	21	0	0	32					
	3	55	55	0	0	0	0	0	22	0	0	772	533	0	0	0	0	11	0	0	43					
	4	697	247	0	9	9	9	0	9	0	26	19	74	0	0	0	0	0	0	0	37					
BCNGO	1	4163	4952	145	83	17	8	0	0	0	0	2297	2217	294	247	47	40	47	0	0	0					
	2	708	373	55	159	77	33	22	0	0	5	3910	2752	221	114	8	15	8	8	0	8					
	3	2089	512	108	229	256	81	67	13	0	0	3758	3982	434	223	39	0	0	0	0	0					
	4	628	172	36	119	71	12	6	0	0	0	3210	1786	225	712	162	100	75	12	12	0					
ALRIGA	1	0	58	289	2871	1503	250	19	19	0	0	0	0	49	1553	1310	243	24	0	0	0					
	2	0	25	124	1569	498	0	25	0	0	25	0	49	220	1052	611	49	0	0	0	0					
	3	0	23	372	4352	1443	186	0	0	0	0	0	73	363	2083	2446	387	24	24	0	0					
	4	0	0	48	4824	1776	144	48	24	0	0	0	0	29	574	660	172	0	0	0	0					

		C-1														C-2																	
NET TYPE REPLICATE		0-3			3-6			SIZE CLASS (MM.)				21-24				27-30			0-3			3-6			6-9		SIZE CLASS (MM.)			21-24		27-30	
		0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30		
MANTA	1	1047	685	20	0	0	0	0	0	0	0	1772	2888	22	11	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	2	219	219	0	0	0	0	0	0	0	0	1634	5104	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	3	1651	1642	83	37	0	0	0	0	0	0	1846	5139	97	36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	4	0	124	38	48	10	0	0	0	0	0	45	445	33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
BCNGO	1	6675	6829	102	179	51	51	26	0	0	0	6106	5246	192	152	10	0	0	0	0	10	0	0	0	0	0	0	0	0	0			
	2	14373	7690	322	107	17	17	8	0	0	8	15006	12332	220	176	22	11	0	0	0	0	0	0	0	0	0	0	0	0	0			
	3	3916	2236	41	1006	263	48	24	24	0	24	19687	18390	214	14	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	4	12822	8415	289	89	74	7	0	0	0	7	8922	14207	299	90	45	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
ALRIGA	1	74	123	296	542	493	173	49	25	0	0	99	693	2028	1237	891	594	173	49	0	25	0	0	0	0	0	0	0	0	0			
	2	25	99	468	665	296	172	49	0	0	0	325	1253	1764	1833	650	255	0	23	0	0	0	0	0	0	0	0	0	0	0			
	3	0	209	1274	440	139	70	0	0	0	0	281	633	2252	1548	399	375	117	23	0	0	0	0	0	0	0	0	0	0	0			
	4	24	97	364	1165	679	291	97	24	0	0	336	576	1632	3024	1872	528	288	0	48	0	0	0	0	0	0	0	0	0	0			

\* (M\*\*3 = m<sup>3</sup>)

Table VII-2. Length-frequency information for Engraulis mordax from intake samples, 27-28 March 1978.

REPLICATE	INTAKE NUMBER OF INDIVIDUALS/1000 M**3									
	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30
MORNING 1	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0
AFTERNOON 1	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0
SUNSET 1	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	83	0	0	0
4	0	0	0	0	0	0	0	0	0	0
BEFORE MIDNIGHT 1	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0
AFTER MIDNIGHT 1	0	0	0	0	0	0	0	0	0	0
2	0	0	0	83	83	0	0	0	0	0
3	0	0	83	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0
SUNRISE 1	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0

(Data collected by Marine Ecological Consultants)

Table VII-3. Length-frequency information for Genyonemus lineatus from offshore tows, 27-28 March 1978.

		NUMBER OF INDIVIDUALS/1000 M**3																		
		T-1										T-2								
NET TYPE	REPLICATE	SIZE CLASS (MM.)										SIZE CLASS (MM.)								
		0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27
MANTA	1	31	0	10	0	0	0	0	0	0	0	9	0	0	0	0	0	0	0	0
	2	32	0	0	0	0	0	0	0	0	0	127	11	0	0	0	0	0	0	0
	3	11	0	0	0	0	0	0	0	0	0	11	0	0	0	0	0	0	0	0
	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BCNGO	1	295	0	0	0	0	0	0	0	0	227	13	0	0	0	0	0	0	0	
	2	5	5	0	0	0	0	0	0	0	191	0	0	0	0	0	0	0	0	
	3	0	40	27	0	0	0	0	0	0	250	13	0	0	0	0	0	0	0	
	4	6	59	6	0	0	0	0	0	0	237	0	0	0	0	0	0	0	0	
AURIGA	1	347	2505	385	58	0	0	0	0	0	267	7256	2330	995	0	0	0	0	0	
	2	174	1295	0	0	0	0	0	0	0	49	1810	367	98	0	0	0	0	0	
	3	559	3887	279	0	0	0	0	0	0	145	9493	2470	727	48	0	0	0	0	
	4	720	7392	744	72	0	0	0	0	0	115	8494	4562	660	29	0	0	0	0	

		C-1										C-2							
NET TYPE	REPLICATE	SIZE CLASS (MM.)										SIZE CLASS (MM.)							
		0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24
MANTA	1	0	0	0	0	0	0	0	0	0	88	0	0	0	0	0	0	0	0
	2	9	0	0	0	0	0	0	0	0	123	0	0	0	0	0	0	0	0
	3	0	0	0	0	0	0	0	0	0	181	0	0	0	0	0	0	0	0
	4	57	0	0	0	0	0	0	0	0	22	0	0	0	0	0	0	0	0
BONGO	1	51	0	0	0	0	0	0	0	0	263	10	0	0	0	0	0	0	0
	2	223	0	0	0	0	0	0	0	0	407	11	0	0	0	0	0	0	0
	3	623	0	0	0	0	0	0	0	0	912	14	0	0	0	0	0	0	0
	4	156	0	0	0	0	0	0	0	0	524	30	15	0	0	0	0	0	0
AURIGA	1	222	123	0	0	0	0	0	0	0	421	3315	173	0	0	0	0	0	0
	2	99	148	74	0	25	0	0	0	0	418	2390	46	0	0	0	0	0	0
	3	0	394	209	139	0	0	0	0	0	328	2111	94	0	0	0	0	0	0
	4	24	364	73	0	0	0	0	0	0	384	1872	48	48	0	0	0	0	0

Table VII-4. Length-frequency information for Genyonemus lineatus  
from intake samples, 27-28 March 1978.

REPLICATE		INTAKE NUMBER OF INDIVIDUALS/1000 M**3									
		0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30
MORNING	1	0	0	0	0	0	0	0	0	0	0
	2	0	83	0	0	0	0	0	0	0	0
	3	0	0	0	0	0	0	0	0	0	0
	4	0	0	0	0	0	0	0	0	0	0
AFTERNOON	1	0	0	0	0	0	0	0	0	0	0
	2	0	83	0	0	0	0	0	0	0	0
	3	0	0	0	0	0	0	0	0	0	0
	4	0	83	0	0	0	0	0	0	0	0
SUNSET	1	0	0	83	0	0	0	0	0	0	0
	2	0	83	0	0	0	0	0	0	0	0
	3	0	0	83	0	0	0	0	0	0	0
	4	0	106	0	0	0	0	0	0	0	0
BEFORE MIDNIGHT	1	0	83	0	0	0	0	0	0	0	0
	2	0	167	0	0	0	0	0	0	0	0
	3	0	83	0	0	0	0	0	0	0	0
	4	0	167	83	0	0	0	0	0	0	0
AFTER MIDNIGHT	1	0	0	83	83	0	0	0	0	0	0
	2	0	250	83	0	0	0	0	0	0	0
	3	0	417	167	0	0	0	0	0	0	0
	4	0	417	0	0	0	0	0	0	0	0
SUNRISE	1	0	167	83	0	0	0	0	0	0	0
	2	0	0	0	0	0	0	0	0	0	0
	3	0	0	0	0	0	0	0	0	0	0
	4	0	0	0	0	0	0	0	0	0	0

(Data collected by Marine Ecological Consultants)

Table VII-5. Length-frequency information for Seriphus politus from offshore tows, 27-28 March 1978.

		NUMBER OF INDIVIDUALS/1000 M <sup>2</sup> *3																			
		T-1										T-2									
NET TYPE	REPLICATE	SIZE CLASS (MM.)										SIZE CLASS (MM.)									
		0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30
MANTA	1	0	0	0	0	0	0	0	0	0	0	75	0	0	0	0	0	0	0	0	0
	2	0	0	0	0	0	0	0	0	0	0	191	0	0	0	0	0	0	0	0	0
	3	0	0	0	0	0	0	0	0	0	0	315	0	0	0	0	0	0	0	0	0
	4	44	0	0	0	0	0	0	0	0	0	37	0	0	0	0	0	0	0	0	0
BONGO	1	249	0	0	0	0	0	0	0	0	134	0	0	0	0	0	0	0	0	0	
	2	5	0	0	0	0	0	0	0	0	244	0	0	0	0	0	0	0	0	0	
	3	40	0	0	0	0	0	0	0	0	342	0	0	0	0	0	0	0	0	0	
	4	0	0	0	0	0	0	0	0	0	212	0	0	0	0	0	0	0	0	0	
AURIGA	1	1587	39	0	0	0	0	0	0	0	0	0	24	0	0	0	0	0	0	0	
	2	174	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	3	303	0	0	0	0	0	0	0	0	0	0	0	24	24	0	0	0	0	0	
	4	408	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

		C-1										C-2								
NET TYPE	REPLICATE	SIZE CLASS (MM.)										SIZE CLASS (MM.)								
		0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27
MANTA	1	235	0	0	0	0	0	0	0	0	635	0	0	0	0	0	0	0	0	0
	2	79	0	0	0	0	0	0	0	0	637	0	0	0	0	0	0	0	0	0
	3	157	0	0	0	0	0	0	0	0	953	0	0	0	0	0	0	0	0	0
	4	29	0	0	0	0	0	0	0	0	67	0	0	0	0	0	0	0	0	0
BONGO	1	460	0	0	0	0	0	0	0	0	152	20	0	0	0	0	0	0	0	0
	2	206	0	0	0	0	0	0	0	0	418	0	0	0	0	0	0	0	0	0
	3	1341	0	0	0	0	0	0	0	0	755	14	0	0	0	0	0	0	0	0
	4	252	0	0	0	0	0	0	0	0	614	15	0	0	0	0	0	0	0	0
AURIGA	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3	0	0	0	0	0	0	0	0	0	0	23	0	0	0	0	0	0	0	0
	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Table VII-6. Length-frequency information for Seriphus politus from intake samples, 27-28 March 1978.

REPLICATE	INTAKE NUMBER OF INDIVIDUALS/1000 M**3									
	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30
MORNING 1	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0
AFTERNOON 1	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0
SUNSET 1	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0
BEFORE MIDNIGHT 1	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0
AFTER MIDNIGHT 1	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0
SUNRISE 1	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0

(Data collected by Marine Ecological Consultants)

Table VII-7. Length-frequency information for *Engraulis mordax* from offshore tows, 27-28 April 1978.

NUMBER OF INDIVIDUALS/1000 M\*\*3

NET TYPE REPLICATE	T-1										T-2									
	SIZE CLASS (MM.)										SIZE CLASS (MM.)									
	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30
MANTA 1	19	9	0	37	19	0	0	0	0	9	9	0	37	306	232	9	0	0	19	37
2	31	0	10	82	122	31	0	10	0	10	8	0	17	152	135	0	0	0	0	8
3	605	20	20	10	50	20	10	0	20	10	19	10	0	285	304	86	19	0	0	19
4	29	0	0	10	10	0	0	0	10	20	132	9	26	344	247	26	0	0	0	0
BONGO 1	134	11	101	782	670	190	22	34	0	0	32	0	221	1199	962	315	63	16	0	0
2	156	16	156	796	500	219	16	0	0	0	107	43	322	1200	2358	1072	150	86	0	0
3	31	0	141	531	328	188	16	31	0	0	235	64	256	3563	3627	2304	469	43	43	21
4	256	0	91	1098	1043	201	37	18	0	18	131	0	180	2155	1943	800	98	33	0	0
AURIGA 1	81	30	40	201	231	403	101	201	101	40	0	14	259	762	422	585	204	123	41	41
2	0	9	28	113	470	564	630	648	395	103	0	19	242	1077	1125	669	165	48	39	19
3	0	9	94	357	883	751	376	272	113	9	0	0	75	892	1257	612	32	43	21	0
4	0	19	163	1751	2077	852	182	144	67	19	0	0	80	1245	1151	308	40	13	27	0

NET TYPE REPLICATE	C-1										C-2									
	SIZE CLASS (MM.)										SIZE CLASS (MM.)									
	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30
MANTA 1	165	12	12	12	0	0	0	0	0	12	21	21	157	303	42	10	0	0	10	10
2	357	161	0	23	0	0	0	0	0	0	85	85	66	113	19	0	0	0	0	0
3	599	283	11	11	0	0	0	0	0	0	202	55	9	18	0	0	0	0	0	0
4	354	103	9	0	0	0	0	0	0	0	519	80	30	0	0	0	0	0	0	0
BONGO 1	762	92	92	66	66	0	0	0	0	0	250	48	107	441	453	60	12	0	12	0
2	1147	73	73	87	116	15	0	0	0	0	287	66	132	628	474	66	0	11	0	0
3	2056	58	43	72	29	0	0	0	0	0	237	32	162	722	582	75	0	0	0	0
4	1711	68	41	82	27	27	0	0	0	0	791	38	151	791	1017	301	19	0	0	0
AURIGA 1	0	0	11	215	147	147	34	23	0	11	52	41	82	278	577	629	72	10	0	0
2	11	0	11	131	120	131	55	22	33	0	91	71	151	756	1190	766	60	0	20	10
3	20	10	50	218	347	308	69	10	30	0	64	21	118	235	599	514	54	0	11	0
4	20	10	30	239	348	219	50	10	10	0	62	41	72	711	1186	1082	103	41	0	0



Table VII-8. Length-frequency information for *Engraulis mordax* from intake samples, 27-28 April 1978.

REPLICATE		INTAKE NUMBER OF INDIVIDUALS/1000 M <sup>3</sup>									
		0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30
MORNING	1	0	0	307	1533	766	230	0	0	0	0
	2	0	0	696	2628	1391	309	77	0	77	0
	3	0	77	154	1467	849	309	154	0	0	0
	4	0	78	78	775	388	233	155	0	0	0
AFTERNOON	1	0	0	177	442	354	88	0	0	0	0
	2	0	0	156	312	156	0	0	0	0	0
	3	0	0	0	0	411	0	0	0	0	0
	4	78	0	0	310	310	0	0	0	0	0
SUNSET	1	0	0	0	374	224	75	0	0	0	0
	2	0	0	81	242	81	81	0	0	0	0
	3	0	0	0	693	154	0	0	0	0	0
	4	0	0	0	309	1082	155	0	0	0	0
BEFORE MIDNIGHT	1	0	0	0	924	739	185	0	0	0	0
	2	0	424	678	508	339	0	0	85	0	0
	3	0	0	78	543	543	155	155	0	78	0
	4	0	0	590	811	1032	590	221	74	147	0
AFTER MIDNIGHT	1	0	0	154	615	0	0	77	77	0	0
	2	0	0	77	540	386	231	231	154	0	0
	3	0	0	78	311	700	389	466	233	155	78
	4	0	0	76	760	608	228	304	304	152	76
SUNRISE	1	0	0	160	399	399	239	0	0	0	0
	2	0	0	0	658	658	576	82	0	0	0
	3	0	0	0	81	244	325	81	0	0	0
	4	0	0	77	387	387	0	0	0	0	0

Table VII-9. Length-frequency information for *Genyonemus lineatus* from offshore tows, 27-28 April 1978.

NUMBR OF INDIVIDUALS/1000 M\*\*3

NET TYPE REPLICATE	T=1										T=2									
	SIZE CLASS (MM.)										SIZE CLASS (MM.)									
	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30
MANTA	1	19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2	0	10	0	0	0	0	0	0	0	8	0	0	0	0	0	0	0	0	0
	3	20	0	0	0	0	0	0	0	0	19	0	0	0	0	0	0	0	0	0
	4	0	10	0	0	0	0	0	0	0	26	0	0	0	0	0	0	0	0	0
BCNGO	1	168	682	145	0	0	0	0	0	0	647	678	110	0	0	0	0	0	0	0
	2	281	734	125	0	0	0	0	0	0	665	665	300	21	0	0	0	0	0	0
	3	78	219	16	0	0	0	0	0	0	1024	1131	235	0	0	0	0	0	0	0
	4	384	604	37	0	0	0	0	0	0	457	1045	65	49	0	0	0	0	0	0
AURIGA	1	40	362	70	50	0	0	0	0	0	82	422	123	0	0	0	0	0	0	0
	2	47	2274	338	226	19	0	0	0	0	87	1115	175	19	0	0	0	0	0	0
	3	38	967	160	66	9	0	0	0	0	140	967	21	21	0	0	0	0	0	0
	4	48	1856	172	57	0	0	0	0	0	27	656	94	0	0	0	13	0	0	0

NET TYPE REPLICATE	C=1										C=2									
	SIZE CLASS (MM.)										SIZE CLASS (MM.)									
	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30
MANTA	1	35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3	0	0	0	0	0	0	0	0	0	18	0	0	0	0	0	0	0	0	0
	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BCNGO	1	105	53	0	0	0	0	0	0	0	239	227	24	0	0	0	0	0	0	0
	2	0	15	0	0	0	0	0	0	0	364	606	22	11	0	0	0	0	0	0
	3	0	29	0	0	0	0	0	0	0	129	280	32	0	0	0	0	0	0	0
	4	27	14	0	0	0	0	0	0	0	207	546	19	19	0	0	0	0	0	0
AURIGA	1	57	68	45	57	0	0	0	0	0	10	41	10	0	0	0	0	0	0	0
	2	76	371	109	22	0	0	11	0	0	81	383	121	10	0	0	0	0	0	0
	3	50	208	69	30	0	0	0	0	0	96	278	32	0	0	0	0	0	0	0
	4	80	1085	179	70	0	0	0	10	0	165	227	21	0	0	0	0	0	0	0

Table VII-10. Length-frequency information for Genyonemus lineatus  
from intake samples, 27-28 April 1978.

REPLICATE		INTAKE NUMBER OF INDIVIDUALS/1000 M**3									
		0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30
MORNING	1	613	766	0	0	0	0	0	0	0	0
	2	541	1159	0	0	0	0	0	0	0	0
	3	232	541	0	0	0	0	0	0	0	0
	4	0	78	0	0	0	0	0	0	0	0
AFTERNOON	1	88	442	0	0	0	0	0	0	0	0
	2	0	0	0	0	0	0	0	0	0	0
	3	0	246	0	0	0	0	0	0	0	0
	4	0	466	0	0	0	0	0	0	0	0
SUNSET	1	449	897	0	0	0	0	0	0	0	0
	2	161	888	161	0	0	0	0	0	0	0
	3	0	1771	0	0	0	0	0	0	0	0
	4	0	2242	0	0	0	0	0	0	0	0
BEFORE MIDNIGHT	1	185	1755	0	0	0	0	0	0	0	0
	2	424	1441	0	0	0	0	0	0	0	0
	3	466	1707	233	78	0	0	0	0	0	0
	4	0	74	0	0	0	0	0	0	0	0
AFTER MIDNIGHT	1	308	1231	154	0	0	0	0	0	0	0
	2	231	2160	309	77	0	0	0	0	0	0
	3	78	2021	311	0	0	0	0	0	0	0
	4	228	3951	304	0	0	0	0	0	0	0
SUNRISE	1	160	479	0	0	0	0	0	0	0	0
	2	164	411	0	0	0	0	0	0	0	0
	3	0	0	0	0	0	0	0	0	0	0
	4	0	0	0	0	0	0	0	0	0	0

Table VII-11. Length-frequency information for *Seriphus politus* from offshore tows, 27-28 April 1978.

		NUMBER OF INDIVIDUALS/1000 M <sup>3</sup>																		
		T-1									T-2									
NET TYPE	REPLICATE	SIZE CLASS (MM.)									SIZE CLASS (MM.)									
		0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27
MANTA	1	0	9	0	0	0	0	0	0	0	19	0	0	0	0	0	0	0	0	0
	2	20	20	0	0	0	0	0	0	0	8	0	0	0	0	0	0	0	0	0
	3	0	0	0	0	0	0	0	0	0	67	0	0	0	0	0	0	0	0	0
	4	10	0	0	0	0	0	0	0	0	18	0	0	0	0	0	0	0	0	0
BONGO	1	112	134	34	11	0	0	0	0	0	0	16	0	0	0	0	0	0	0	0
	2	16	94	16	0	0	0	0	0	0	43	64	0	0	0	0	0	0	0	0
	3	234	172	47	0	0	0	0	0	0	0	85	21	0	0	0	0	0	0	0
	4	695	421	18	0	0	0	0	0	0	33	65	33	0	0	0	0	0	0	0
AURIGA	1	20	553	20	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2	56	1278	179	75	94	19	9	9	0	0	0	0	10	0	0	0	0	0	0
	3	19	2019	178	75	56	19	0	0	0	0	11	0	0	0	0	0	0	0	0
	4	10	3196	278	48	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		-----																		
		C-1									C-2									
NET TYPE	REPLICATE	SIZE CLASS (MM.)									SIZE CLASS (MM.)									
		0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27
MANTA	1	12	0	0	0	0	0	0	0	0	10	0	0	0	0	0	0	0	0	0
	2	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BONGO	1	118	13	0	0	0	0	0	0	0	0	36	0	0	0	0	0	0	0	0
	2	29	15	15	0	0	0	0	0	0	0	44	0	0	0	0	0	0	0	0
	3	29	0	0	0	0	0	0	0	0	0	22	0	0	0	0	0	0	0	0
	4	27	0	0	0	0	0	0	0	0	19	19	0	0	0	0	0	0	0	0
AURIGA	1	181	79	45	34	0	11	0	0	0	0	10	0	0	0	0	0	0	0	0
	2	0	33	33	22	11	0	11	0	0	0	30	20	0	0	0	0	0	0	0
	3	119	69	30	0	0	0	0	0	0	11	32	0	0	0	0	0	0	0	0
	4	508	587	129	20	0	0	0	0	0	0	10	0	0	0	0	0	0	0	0

Table VII-12. Length-frequency information for Seriphus politus from intake samples, 27-28 April 1978.

REPLICATE		INTAKE NUMBER OF INDIVIDUALS/1000 M**3									
		0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30
MORNING	1	0	77	0	0	0	0	0	0	0	0
	2	0	155	77	0	0	0	0	0	0	0
	3	0	232	77	0	0	0	0	0	0	0
	4	155	0	0	0	0	0	0	0	0	0
AFTERNOON	1	88	88	0	0	0	0	0	0	0	0
	2	78	0	0	0	0	0	0	0	0	0
	3	0	411	0	0	0	0	0	0	0	0
	4	0	78	0	0	0	0	0	0	0	0
SUNSET	1	75	0	0	0	0	0	0	0	0	0
	2	0	81	0	0	0	0	0	0	0	0
	3	0	231	0	0	0	0	0	0	0	0
	4	0	77	0	0	0	0	0	0	0	0
BEFORE MIDNIGHT	1	0	92	0	0	0	0	0	0	0	0
	2	0	0	0	0	0	0	0	0	0	0
	3	0	0	0	78	0	0	0	0	0	0
	4	0	295	0	0	0	0	0	0	0	0
AFTER MIDNIGHT	1	0	0	0	77	0	0	0	0	0	0
	2	0	154	231	0	0	0	0	0	0	0
	3	0	0	0	0	78	0	0	0	0	0
	4	0	228	76	76	0	0	0	0	0	0
SUNRISE	1	0	319	0	0	0	0	0	0	0	0
	2	0	329	0	0	0	0	0	0	0	0
	3	0	0	0	0	0	0	0	0	0	0
	4	0	0	0	0	0	0	0	0	0	0

Table VII-13. Length-frequency information for Engraulis mordax from offshore tows, 29-30 May 1978.

		NUMBER OF INDIVIDUALS/1000 M**3																			
		T-1								T-2											
NET TYPE	REPLICATE	SIZE CLASS (MM.)								SIZE CLASS (MM.)											
		0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30
MANTA	1	20	20	20	20	0	0	0	0	0	16	0	57	73	16	8	8	0	8	0	
	2	43	43	26	0	0	9	0	0	0	16	16	8	40	8	8	0	8	0	0	
	3	9	9	18	0	0	9	0	0	0	74	0	8	16	16	0	0	0	8	0	
	4	26	53	53	0	0	0	0	0	0	8	0	0	25	0	0	0	0	0	0	
BONGO	1	28	35	218	190	35	7	0	0	0	6	6	77	55	28	6	0	0	0	0	
	2	5	48	134	48	11	0	0	0	0	29	29	98	196	69	12	17	0	6	6	
	3	12	60	272	266	36	30	6	0	6	0	12	43	80	18	6	6	6	0	0	
	4	37	93	253	290	56	0	0	0	0	0	47	187	181	23	18	6	0	0	0	
AURIGA	1	0	0	0	73	24	121	121	0	0	0	24	0	24	24	0	0	0	0	0	
	2	0	0	52	52	52	182	208	52	0	0	22	0	0	22	0	0	0	0	0	
	3	0	21	42	21	190	339	85	42	0	0	0	31	157	63	0	0	31	0	0	
	4	0	0	0	88	109	22	22	0	0	0	0	75	226	125	125	0	0	0	0	
-----																					
		C-1								C-2											
NET TYPE	REPLICATE	SIZE CLASS (MM.)								SIZE CLASS (MM.)											
		0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30
MANTA	1	0	9	17	9	0	0	0	0	0	55	55	100	46	36	36	0	0	0	0	
	2	17	0	25	17	8	0	0	0	0	9	53	26	53	61	18	0	0	0	0	
	3	0	0	0	10	0	0	0	0	0	0	17	34	34	8	34	0	0	0	0	
	4	24	0	0	16	16	0	8	0	0	8	8	34	17	17	0	0	0	0	0	
BONGO	1	5	15	83	122	64	15	15	0	0	5	65	204	269	100	45	0	5	0	0	
	2	9	23	120	78	69	14	5	0	0	29	92	344	281	120	29	6	0	0	0	
	3	5	0	65	60	27	5	0	5	5	16	68	286	354	182	47	21	0	0	0	
	4	22	4	61	79	22	9	4	9	0	25	80	348	427	124	70	5	5	0	0	
AURIGA	1	0	48	240	359	359	96	24	0	0	0	0	42	250	396	396	104	42	0	0	
	2	0	0	47	306	329	188	94	0	0	0	20	98	433	767	1121	334	20	0	0	
	3	0	42	231	357	483	399	63	0	0	0	19	151	662	794	681	151	57	0	0	
	4	0	21	172	386	687	408	21	21	0	21	0	0	138	473	571	414	355	0	0	

Table VII-14. Length-frequency information for Engraulis mordax from intake samples, 29-30 May 1978.

REPLICATE		INTAKE NUMBER OF INDIVIDUALS/1000 M**3									
		0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30
MORNING	1	0	0	0	0	39	0	0	0	0	0
	2	0	0	0	0	215	0	0	0	0	0
	3	0	0	0	0	279	0	0	0	0	0
	4	0	0	18	0	147	0	0	0	0	0
AFTERNOON	1	0	0	41	61	81	0	20	0	0	0
	2	0	0	18	37	55	73	18	18	0	18
	3	0	0	40	40	20	0	0	0	0	0
	4	0	0	77	192	115	0	0	0	0	0
SUNSET	1	0	19	0	19	0	0	0	0	0	0
	2	0	0	0	34	86	0	0	0	0	0
	3	0	0	57	153	268	0	0	0	0	0
	4	0	0	19	172	287	0	0	0	0	0
BEFORE MIDNIGHT	1	20	20	61	121	162	0	0	0	0	0
	2	0	0	0	77	134	0	0	0	0	0
	3	0	0	0	20	121	0	0	0	0	0
	4	0	18	18	0	18	0	0	0	0	0
AFTER MIDNIGHT	1	0	0	0	40	79	0	0	0	0	0
	2	0	0	0	40	20	0	0	0	0	0
	3	0	0	0	0	20	0	0	0	0	0
	4	0	0	0	0	0	0	0	0	0	0
SUNRISE	1	0	0	20	0	39	0	0	0	0	0
	2	0	0	40	0	61	0	0	0	0	0
	3	0	0	19	0	194	0	0	0	0	0
	4	0	0	0	0	116	0	0	0	0	0

Table VII-15. Length-frequency information for Genyonemus lineatus from offshore tows, 29-30 May 1978.

NUMBER OF INDIVIDUALS/1000 M<sup>2</sup>±3

NET TYPE REPLICATE	T-1										T-2									
	SIZE CLASS (MM.)										SIZE CLASS (MM.)									
	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30
MANTA 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MANTA 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MANTA 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MANTA 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BONGO 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BONGO 2	0	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0
BONGO 3	0	0	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0
BONGO 4	0	0	0	0	0	0	0	0	0	0	0	18	6	0	0	0	0	0	0	0
AURIGA 1	0	0	340	1383	898	340	121	49	0	0	0	0	0	0	0	0	0	0	0	0
AURIGA 2	0	52	260	964	937	312	78	0	0	0	0	0	0	0	0	0	0	0	0	0
AURIGA 3	0	0	296	1122	957	127	42	63	0	0	0	0	0	0	0	0	0	0	0	0
AURIGA 4	0	0	88	372	678	175	44	0	0	0	0	0	0	25	0	0	0	0	0	0

NET TYPE REPLICATE	C-1										C-2									
	SIZE CLASS (MM.)										SIZE CLASS (MM.)									
	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30
MANTA 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MANTA 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MANTA 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MANTA 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BONGO 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BONGO 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BONGO 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BONGO 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AURIGA 1	0	72	623	48	72	72	24	24	0	0	0	0	104	63	21	0	21	0	0	0
AURIGA 2	0	71	588	494	165	0	24	71	0	0	0	0	118	59	59	0	0	0	0	0
AURIGA 3	0	42	273	651	273	21	42	21	0	0	0	0	113	38	0	0	0	0	0	0
AURIGA 4	0	172	129	665	43	0	43	43	0	0	0	0	118	177	0	0	0	0	0	0



Table VII-16. Length-frequency information for Genyonemus lineatus  
from intake samples, 29-30 May 1978.

REPLICATE	INTAKE NUMBER OF INDIVIDUALS/1000 M**3									
	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30
MORNING 1	0	0	39	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0
AFTERNOON 1	0	0	0	0	0	0	0	0	0	0
2	0	18	0	0	0	0	0	0	0	0
3	0	0	0	20	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0
SUNSET 1	0	0	0	0	19	0	0	0	0	0
2	0	0	103	121	0	0	0	0	0	0
3	0	0	229	459	38	0	0	19	0	0
4	0	19	115	38	19	0	0	0	0	0
BEFORE MIDNIGHT 1	0	101	0	0	0	0	0	0	0	0
2	0	77	96	38	0	0	0	0	0	0
3	0	40	20	0	0	0	0	0	0	0
4	0	18	18	0	0	0	0	0	0	0
AFTER MIDNIGHT 1	0	0	158	138	0	0	0	0	0	0
2	0	0	279	279	20	0	0	0	0	0
3	0	81	81	40	0	0	0	0	0	0
4	0	0	74	19	0	0	0	0	0	0
SUNRISE 1	0	0	235	39	0	0	0	0	0	0
2	0	20	40	40	0	0	0	0	0	0
3	0	0	0	0	19	0	0	0	0	0
4	0	0	19	0	0	0	0	0	0	0

Table VII-17. Length-frequency information for Seriphus politus from offshore tows, 29-30 May 1978.

NUMBER OF INDIVIDUALS/1000 M\*\*3

NET TYPE REPLICATE	T-1										T-2									
	SIZE CLASS (MM.)										SIZE CLASS (MM.)									
	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30
MANTA 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MANTA 2	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MANTA 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MANTA 4	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BONGO 1	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0
BONGO 2	0	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BONGO 3	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BONGO 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AURIGA 1	0	0	73	73	316	146	24	0	0	0	0	0	0	0	0	0	0	0	0	0
AURIGA 2	0	0	26	78	234	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AURIGA 3	0	0	106	360	233	85	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AURIGA 4	0	0	88	241	372	109	22	0	0	0	0	0	0	0	0	0	0	0	0	0

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NET TYPE REPLICATE	C-1										C-2									
	SIZE CLASS (MM.)										SIZE CLASS (MM.)									
	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30
MANTA 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MANTA 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MANTA 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MANTA 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BONGO 1	0	15	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0
BONGO 2	0	32	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0
BONGO 3	0	43	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0
BONGO 4	0	4	0	0	0	4	0	0	0	0	0	10	0	0	0	0	0	0	0	0
AURIGA 1	455	455	144	192	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AURIGA 2	24	376	71	235	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AURIGA 3	0	609	168	126	0	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AURIGA 4	0	150	64	215	0	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Table VII-18. Length-frequency information for Seriphus politus from intake samples, 29-30 May 1978.

REPLICATE	INTAKE NUMBER OF INDIVIDUALS/1000 M**3									
	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30
MORNING 1	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0
AFTERNOON 1	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0
4	0	19	0	19	0	19	0	0	0	0
SUNSET 1	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	19	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0
BEFORE MIDNIGHT 1	0	0	20	0	0	0	0	0	0	0
2	0	0	19	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0
4	0	18	0	0	0	0	0	0	0	0
AFTER MIDNIGHT 1	0	0	20	0	0	0	0	0	0	0
2	0	0	20	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0
SUNRISE 1	0	0	20	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0

Table VII-19. Length-frequency information for Engraulis mordax from offshore tows, 27-28 June 1978.

		NUMBER OF INDIVIDUALS/1000 M <sup>2</sup> 3																			
		T-1									T-2										
NET TYPE	REPLICATE	SIZE CLASS (MM.)									SIZE CLASS (MM.)										
		0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30
MANTA	1	0	0	0	0	0	18	18	36	72	0	0	0	0	0	0	38	38	38	56	38
	2	0	0	0	0	0	0	19	93	56	93	0	0	0	0	19	37	19	19	0	37
	3	0	0	0	0	0	0	0	0	0	17	0	41	0	0	0	0	0	0	0	0
	4	0	19	0	0	0	0	0	0	0	19	0	0	0	0	0	0	0	0	0	0
BONGO	1	0	0	0	24	36	24	36	24	73	0	0	0	26	13	13	26	64	51	13	0
	2	0	0	13	0	27	0	27	107	27	40	0	13	0	0	26	26	117	26	13	0
	3	0	0	0	0	11	55	88	66	22	11	0	27	27	27	27	81	148	40	0	0
	4	0	0	0	0	10	103	51	21	10	0	0	0	57	11	11	69	34	23	23	11
AURIGA	1	0	0	0	16	824	1224	360	16	0	0	0	0	33	67	858	947	201	67	0	0
	2	0	25	0	34	950	1378	218	25	0	0	0	9	28	28	549	792	205	19	0	0
	3	0	0	0	17	293	803	184	25	8	0	0	10	10	41	366	478	142	20	0	0
	4	0	24	158	79	268	591	213	8	0	0	0	9	9	36	394	904	340	36	0	0
-----																					
		C-1									C-2										
NET TYPE	REPLICATE	SIZE CLASS (MM.)									SIZE CLASS (MM.)										
		0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30
MANTA	1	17	0	0	0	17	50	17	33	17	50	0	16	0	0	0	0	0	0	0	0
	2	0	0	0	0	0	15	29	59	73	59	19	0	0	0	0	0	0	0	0	19
	3	0	0	0	0	0	0	16	32	64	64	0	0	0	0	0	0	34	17	17	17
	4	0	0	0	0	0	0	17	17	51	67	0	0	0	0	16	16	0	0	16	0
BONGO	1	0	0	0	0	21	147	95	32	21	0	21	11	32	11	21	106	11	0	21	11
	2	10	10	10	10	31	163	112	61	20	0	0	13	0	0	38	189	138	25	0	13
	3	0	0	33	0	22	78	123	67	11	11	0	12	0	0	0	24	84	0	12	0
	4	0	0	0	11	0	44	99	66	44	0	0	11	0	0	11	44	55	0	0	11
AURIGA	1	0	0	0	25	261	354	126	25	0	8	0	44	53	44	79	184	70	0	0	0
	2	0	0	0	154	862	828	307	26	34	0	0	9	18	26	149	281	123	62	18	0
	3	0	10	0	29	156	409	214	39	10	10	0	0	27	62	186	398	150	9	0	0
	4	0	8	0	66	764	558	115	8	0	0	0	0	0	50	183	325	108	0	0	0

Table VII-20. Length-frequency information for *Engraulis mordax* from intake samples, 27-28 June 1978.

REPLICATE		INTAKE NUMBER OF INDIVIDUALS/1000 M**3									
		0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30
MORNING	1	0	0	0	0	0	9	0	0	0	0
	2	0	0	0	0	0	11	0	0	0	0
	3	0	0	0	0	0	0	0	0	0	0
	4	0	0	0	0	0	0	0	0	0	0
AFTERNOON	1	0	0	0	0	7	7	0	0	0	0
	2	0	0	0	10	0	10	10	0	0	0
	3	0	0	0	0	0	0	10	0	0	0
	4	0	0	0	10	20	10	0	0	0	0
SUNSET	1	0	0	0	0	0	0	0	0	0	0
	2	0	0	0	0	0	10	0	0	0	0
	3	0	0	0	0	11	21	0	0	0	0
	4	0	0	0	0	43	108	75	0	0	0
BEFORE MIDNIGHT	1	0	0	0	21	51	51	21	10	0	0
	2	0	0	0	0	111	100	44	11	0	0
	3	0	0	0	21	52	177	10	0	0	10
	4	0	0	0	0	41	83	52	10	0	10
AFTER MIDNIGHT	1	0	0	0	0	109	120	55	11	0	0
	2	0	0	0	0	21	10	42	0	0	0
	3	0	0	0	0	10	61	0	0	0	10
	4	11	0	0	0	32	85	21	11	0	0
SUNRISE	1	0	0	0	11	44	55	11	0	0	0
	2	0	0	11	0	11	55	33	0	0	0
	3	0	0	0	10	10	30	0	0	0	0
	4	0	0	0	0	11	32	21	0	0	0

Table VII-21. Length-frequency information for Genyonemus lineatus from offshore tows, 27-28 June 1978.

NUMBER OF INDIVIDUALS/1000 M<sup>3</sup>

NET TYPE REPLICATE	T-1										T-2									
	SIZE CLASS (MM.)										SIZE CLASS (MM.)									
	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30
MANTA 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MANTA 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MANTA 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MANTA 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BONGO 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BONGO 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BONGO 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BONGO 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AURIGA 1	0	144	128	16	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AURIGA 2	0	92	126	101	8	25	17	0	0	0	0	0	28	9	0	0	0	0	0	0
AURIGA 3	0	17	167	59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AURIGA 4	0	39	63	24	0	0	0	0	0	0	0	0	0	9	0	0	0	0	0	0

NET TYPE REPLICATE	C-1										C-2									
	SIZE CLASS (MM.)										SIZE CLASS (MM.)									
	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30
MANTA 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MANTA 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MANTA 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MANTA 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BONGO 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BONGO 2	0	0	0	0	0	0	0	0	0	0	0	13	0	0	0	0	0	0	0	0
BONGO 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BONGO 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AURIGA 1	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AURIGA 2	9	43	247	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AURIGA 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AURIGA 4	0	115	33	8	0	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Table VII-22. Length-frequency information for Genyonemus lineatus from intake samples, 27-28 June 1978.

REPLICATE	INTAKE NUMBER OF INDIVIDUALS/1000 M**3									
	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30
MORNING 1	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0
AFTERNOON 1	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0
SUNSET 1	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0
4	0	0	22	0	0	0	0	0	0	0
BFFORE MIDNIGHT 1	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0
3	0	0	0	10	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0
AFTER MIDNIGHT 1	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0
SUNRISE 1	0	0	22	11	0	0	0	0	0	0
2	0	0	22	11	0	0	0	0	0	0
3	0	0	10	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0

Table VII-23. Length-frequency information for Seriphus politus from offshore tows, 27-28 June 1978.

NUMBER OF INDIVIDUALS/1000 M<sup>2</sup>±3

NET TYPE REPLICATE	T-1										T-2									
	SIZE CLASS (MM.)										SIZE CLASS (MM.)									
	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30
MANTA 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MANTA 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MANTA 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MANTA 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BCNGO 1	0	0	0	0	0	0	0	0	0	0	0	13	0	0	0	0	0	0	0	0
BCNGO 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BCNGO 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BCNGO 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AURIGA 1	8	32	24	16	32	0	8	8	0	0	0	0	0	0	0	0	0	0	0	0
AURIGA 2	17	50	76	42	17	25	8	17	0	0	0	0	0	0	0	0	0	0	0	0
AURIGA 3	0	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AURIGA 4	0	16	32	8	0	0	16	0	0	0	0	0	0	0	0	0	0	0	0	0

NET TYPE REPLICATE	C-1										C-2									
	SIZE CLASS (MM.)										SIZE CLASS (MM.)									
	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30
MANTA 1	0	0	0	0	0	0	0	0	0	0	16	0	0	0	0	0	0	0	0	0
MANTA 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MANTA 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MANTA 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BCNGO 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BCNGO 2	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BCNGO 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BCNGO 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AURIGA 1	0	0	0	0	0	0	0	0	0	0	18	0	0	0	0	0	0	0	0	0
AURIGA 2	0	0	0	0	0	0	0	0	0	0	9	0	0	0	0	0	0	0	0	0
AURIGA 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AURIGA 4	0	279	74	8	0	0	0	8	0	0	0	8	0	0	0	0	0	0	0	0



Table VII-24. Length-frequency information for Seriphus politus from intake samples 27-28 June 1978.

REPLICATE	INTAKE NUMBER OF INDIVIDUALS/1000 M**3									
	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30
MORNING 1	0	0	0	0	0	0	0	0	0	0
2	0	11	0	0	0	0	0	0	0	0
3	0	11	0	0	0	0	0	0	0	0
4	0	0	11	0	0	0	0	0	0	0
AFTERNOON 1	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0
4	0	20	0	0	0	0	0	0	0	0
SUNSET 1	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0
4	0	54	0	0	0	0	0	0	0	0
BEFORE MIDNIGHT 1	0	0	0	0	0	0	0	0	0	0
2	0	66	0	0	0	0	11	0	0	0
3	10	0	0	0	0	0	10	10	0	0
4	0	0	0	0	0	0	0	0	0	0
AFTER MIDNIGHT 1	0	33	0	0	0	0	0	0	0	0
2	0	10	0	0	0	0	0	21	0	0
3	0	10	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0
SUNRISE 1	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0

Table VII-25. Length-frequency information for Engraulis mordax from offshore tows, 27-29 July 1978.

		NUMBER OF INDIVIDUALS/1000 M <sup>2</sup> *3																			
NET TYPE REPLICATE	T-1										T-2										
	SIZE CLASS (MM.)										SIZE CLASS (MM.)										
	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30	
MANTA	1	0	0	0	0	0	14	7	7	22	22	0	0	0	0	0	0	0	0	0	0
	2	0	0	0	0	0	0	0	0	19	0	0	0	0	0	0	0	0	0	0	0
	3	0	0	0	0	0	0	0	66	19	19	0	0	0	0	0	0	0	0	4	0
	4	0	0	0	0	0	0	0	0	18	9	0	0	0	0	0	0	0	16	0	8
BONGO	1	0	4	0	0	9	0	0	0	0	0	0	0	0	0	28	41	5	0	14	5
	2	0	0	0	0	19	56	37	19	28	9	0	0	0	5	10	28	9	0	5	9
	3	0	5	0	9	23	14	55	27	55	27	0	0	0	8	12	48	28	0	12	12
	4	0	0	0	9	4	9	13	13	17	4	0	0	0	9	13	56	86	30	26	17
AURIGA	1	0	0	0	0	63	116	63	18	0	0	0	0	0	0	9	103	256	77	17	9
	2	0	0	0	0	32	80	105	161	32	32	0	0	9	0	64	248	514	183	37	28
	3	0	0	0	0	46	213	441	152	46	53	0	0	0	0	26	265	362	106	88	18
	4	0	0	0	0	16	312	764	115	41	8	0	0	0	0	18	45	161	63	27	18
-----																					
NET TYPE REPLICATE	C-1										C-2										
	SIZE CLASS (MM.)										SIZE CLASS (MM.)										
	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30	
MANTA	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4	0	0	0	0	0	0	25	0	0	0	0	0	0	0	0	0	0	0	0	0
BONGO	1	0	0	0	0	18	41	41	5	0	0	0	0	0	0	14	28	0	0	0	0
	2	0	0	0	0	18	45	18	13	0	9	0	5	0	0	0	18	14	0	5	5
	3	0	0	0	0	29	54	8	8	4	0	0	0	0	0	22	9	4	4	9	0
	4	0	0	0	0	10	52	14	10	10	0	0	0	0	0	5	43	5	5	9	5
AURIGA	1	0	0	0	0	34	40	54	27	0	0	0	0	0	0	88	221	199	15	22	22
	2	0	0	0	0	53	91	45	45	38	30	0	0	0	8	15	53	60	38	8	45
	3	0	0	0	7	0	66	29	66	44	29	0	0	0	7	71	135	93	57	29	43
	4	0	0	0	7	121	114	71	86	43	21	0	0	0	14	55	42	132	90	28	48

Table VII-26. Length-frequency information for Engraulis mordax from intake samples, 27-29 July 1978.

REPLICATE	INTAKE NUMBER OF INDIVIDUALS/1000 M**3									
	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30
MORNING 1	0	0	0	38	38	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	38	0	0	0
4	0	0	0	0	37	37	37	0	0	0
AFTERNOON 1	0	0	0	0	39	0	0	0	0	0
2	0	0	0	0	0	37	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0
SUNSET 1	0	42	0	0	0	42	83	0	0	0
2	0	0	0	0	0	83	83	0	0	0
3	0	0	0	0	40	40	40	40	0	0
4	0	0	0	0	161	40	161	40	0	0
BEFORE MIDNIGHT 1	0	0	0	0	0	244	41	0	41	0
2	0	0	0	0	45	45	90	45	0	0
3	0	0	0	42	0	125	208	0	0	0
4	0	0	0	0	39	39	118	157	39	0
AFTER MIDNIGHT 1	0	0	0	0	76	114	114	38	0	0
2	0	0	0	0	0	116	194	39	0	0
3	0	0	0	0	41	83	166	0	0	0
4	0	0	0	0	38	76	38	0	0	0
SUNRISE 1	0	0	0	0	0	41	41	41	0	0
2	0	0	0	0	40	40	120	0	0	0
3	0	0	0	0	84	0	169	0	0	0
4	0	0	0	0	0	42	84	0	42	0

Table VII-27. Length-frequency information for Genyonemus lineatus from offshore tows, 27-29 July 1978.

NUMBER OF INDIVIDUALS/1000 M\*\*3

NET TYPE REPLICATE	T=1										T=2									
	SIZE CLASS (MM.)										SIZE CLASS (MM.)									
	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30
MANTA 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BCNGO 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AURIGA 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

NET TYPE REPLICATE	C=1										C=2									
	SIZE CLASS (MM.)										SIZE CLASS (MM.)									
	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30
MANTA 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BCNGO 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AURIGA 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Table VII-28. Length-frequency information for Genyonemus lineatus  
from intake samples, 27-29 July 1978.

REPLICATE	INTAKE NUMBER OF INDIVIDUALS/1000 M**3									
	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30
MORNING 1	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0
AFTERNOON 1	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0
SUNSET 1	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0
BEFORE MIDNIGHT 1	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0
AFTER MIDNIGHT 1	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0
SUNRISE 1	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0

Table VII-29. Length-frequency information for Seriphus politus from offshore tows, 27-29 July 1978.

NUMBER OF INDIVIDUALS/1000 M<sup>2</sup>±3

NET TYPE REPLICATE	T-1										T-2									
	SIZE CLASS (MM.)										SIZE CLASS (MM.)									
	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30
MANTA	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BCNGO	1	0	179	4	0	0	0	0	0	0	0	14	0	0	0	0	0	0	0	0
	2	0	98	0	0	0	0	0	0	0	0	9	0	0	0	0	0	0	0	0
	3	9	50	0	0	0	0	0	0	0	0	8	0	0	0	0	0	0	0	0
	4	0	39	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0
ALRIGA	1	0	268	652	268	36	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2	0	137	80	32	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3	0	23	30	23	15	0	0	0	0	0	0	9	0	0	0	0	0	0	0
	4	0	33	115	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

NET TYPE REPLICATE	C-1										C-2									
	SIZE CLASS (MM.)										SIZE CLASS (MM.)									
	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30
MANTA	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BCNGO	1	0	77	0	0	0	0	0	0	0	0	9	0	0	0	0	0	0	0	0
	2	4	227	0	0	0	0	0	0	0	0	9	0	0	0	0	0	0	0	0
	3	4	92	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0
	4	5	57	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0
ALRIGA	1	0	101	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2	0	3447	174	98	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3	0	742	58	29	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4	0	4890	435	71	29	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Table VII-30. Length-frequency information for Seriphus politus from intake samples, 27-29 July 1978.

REPLICATE	INTAKE NUMBER OF INDIVIDUALS/1000 M**3									
	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30
MORNING 1	0	500	38	0	0	0	0	0	0	0
2	0	115	38	0	0	0	0	0	0	0
3	0	342	152	76	0	0	0	0	0	0
4	0	561	0	0	0	0	0	0	0	0
AFTERNOON 1	0	39	39	0	0	0	0	0	0	0
2	0	149	0	0	0	0	0	0	0	0
3	0	295	37	0	0	0	0	0	0	0
4	38	38	0	0	0	0	0	0	0	0
SUNSET 1	0	125	42	0	0	0	0	0	0	0
2	0	334	0	0	0	0	0	0	0	0
3	0	80	160	0	0	0	0	0	0	0
4	0	121	0	40	0	0	0	0	0	0
BEFORE MIDNIGHT 1	0	1955	41	0	0	0	0	0	0	0
2	0	809	45	0	0	0	0	0	0	0
3	0	667	83	0	0	0	0	0	0	0
4	0	824	157	0	0	0	0	0	0	0
AFTER MIDNIGHT 1	0	1142	114	152	0	0	0	0	0	0
2	0	1588	155	77	0	0	0	0	0	0
3	0	1907	83	0	0	0	0	0	0	0
4	0	2119	151	0	0	0	0	0	0	0
SUNRISE 1	2218	2218	41	0	0	0	0	0	0	0
2	0	1723	120	0	0	0	0	0	0	0
3	0	1814	84	0	0	0	0	0	0	0
4	0	1420	84	42	0	0	0	0	0	0

Table VII-31. Length-frequency information for Engraulis mordax from offshore tows, 29-30 August 1978.

		NUMBER OF INDIVIDUALS/1000 M <sup>3</sup>																			
		T-1									T-2										
NET TYPE	REPLICATE	SIZE CLASS (MM.)									SIZE CLASS (MM.)										
		0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30
MANTA	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	3	0	0	0	0	0	0	0	8	0	0	0	0	0	0	0	0	0	0	0	
	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
BONGO	1	0	0	0	0	0	0	0	0	0	0	14	0	0	5	0	0	0	0	5	
	2	0	4	0	0	9	13	0	0	4	0	9	0	0	0	0	0	0	4	0	
	3	0	0	0	0	0	0	0	0	0	4	22	9	0	0	0	0	0	0	0	
	4	4	8	0	0	0	0	0	0	0	0	24	0	10	19	10	5	0	0	0	
AURIGA	1	18	63	18	18	36	27	0	0	0	10	116	0	0	0	0	10	0	0	0	
	2	0	9	54	54	36	18	0	0	0	10	79	0	30	20	10	0	0	0	0	
	3	0	0	19	9	37	65	9	28	19	21	83	0	0	0	0	0	0	0	0	
	4	0	9	0	9	44	70	9	26	35	10	30	0	40	89	40	30	59	0	0	
-----																					
		C-1									C-2										
NET TYPE	REPLICATE	SIZE CLASS (MM.)									SIZE CLASS (MM.)										
		0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30
MANTA	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	3	0	0	0	0	0	0	0	0	0	0	0	8	0	0	0	0	0	0	0	
	4	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
BONGO	1	0	0	0	0	25	4	4	4	0	14	0	0	0	5	0	0	0	0	0	
	2	0	5	0	0	0	14	0	0	0	0	5	0	0	0	0	0	0	0	0	
	3	0	5	0	5	5	14	0	0	0	0	0	5	0	0	5	0	0	0	0	
	4	0	0	0	0	0	0	5	0	0	0	0	0	0	0	5	5	0	0	0	
AURIGA	1	0	0	0	11	0	11	0	11	0	0	0	0	0	10	10	0	0	0	0	
	2	0	0	0	0	9	17	0	0	0	0	0	0	0	9	9	0	9	0	0	
	3	0	0	9	28	18	28	0	0	9	0	0	0	0	10	0	0	0	0	0	
	4	0	0	0	0	9	0	9	9	0	0	9	0	9	9	19	19	0	0	0	



Table VII-32. Length-frequency information for Engraulis mordax from intake samples, 29-30 August 1978.

REPLICATE		INTAKE NUMBER OF INDIVIDUALS/1000 M**3									
		0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30
MORNING	1	0	0	0	0	17	0	0	0	0	0
	2	18	0	0	0	0	0	0	0	0	0
	3	20	20	0	0	0	0	0	0	0	0
	4	35	17	0	0	0	0	0	0	0	0
	5	54	36	0	0	0	0	0	0	0	0
	6	551	284	0	0	0	0	0	0	0	0
AFTERNOON	1	1069	199	0	0	0	0	0	0	0	0
	2	286	18	0	0	0	0	0	0	0	0
	3	61	0	0	0	0	0	0	0	0	0
	4	55	0	0	0	0	0	0	0	0	0
	5	0	37	0	0	0	0	0	0	0	0
	6	33	17	0	0	0	0	0	0	0	0
SUNSET	1	0	0	0	0	0	0	0	0	0	0
	2	0	0	0	0	0	0	0	0	0	0
	3	0	0	0	0	0	0	0	0	0	0
	4	0	0	0	0	0	0	0	0	0	0
BEFORE MIDNIGHT	1	0	0	0	0	0	0	0	0	0	0
	2	0	0	0	0	0	0	0	0	0	0
	3	0	0	0	0	0	0	0	0	0	0
	4	0	0	0	0	0	17	17	0	0	0
	5	0	0	0	0	18	18	0	0	0	0
	6	0	17	17	34	85	0	17	0	0	0
AFTER MIDNIGHT	1	0	0	0	0	17	17	0	0	0	0
	2	0	0	18	18	18	54	18	0	0	0
	3	17	0	0	0	17	0	0	0	0	0
	4	0	18	18	18	18	0	0	0	0	0
	5	0	0	0	0	0	35	18	18	0	0
	6	0	0	0	0	35	17	35	0	0	0
SUNRISE	1	18	18	0	18	0	0	0	0	0	0
	2	0	0	0	0	0	18	0	0	0	0
	3	0	0	0	0	0	0	17	0	0	0
	4	0	0	0	0	0	0	0	0	0	0

Table VII-33. Length-frequency information for *Genyonemus lineatus* from offshore tows, 29-30 August 1978.

NUMBER OF INDIVIDUALS/1000 M<sup>3</sup>

NET TYPE REPLICATE	T-1										T-2									
	SIZE CLASS (MM.)										SIZE CLASS (MM.)									
	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30
MANTA 1	0	0	0	0	0	0	0	0	0	0	15	0	0	0	0	0	0	0	0	0
MANTA 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MANTA 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MANTA 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BONGO 1	8	0	0	0	0	0	0	0	0	0	92	0	0	0	0	0	0	0	0	0
BONGO 2	9	0	0	0	0	0	0	0	0	0	26	0	0	0	0	0	0	0	0	0
BONGO 3	20	0	0	0	0	0	0	0	0	0	13	0	0	0	0	0	0	0	0	0
BONGO 4	17	0	0	0	0	0	0	0	0	0	14	0	0	0	0	0	0	0	0	0
AURIGA 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AURIGA 2	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AURIGA 3	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AURIGA 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

NET TYPE REPLICATE	C-1										C-2									
	SIZE CLASS (MM.)										SIZE CLASS (MM.)									
	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30
MANTA 1	7	0	0	0	0	0	0	0	0	0	8	0	0	0	0	0	0	0	0	0
MANTA 2	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MANTA 3	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MANTA 4	0	0	0	0	0	0	0	0	0	0	8	0	0	0	0	0	0	0	0	0
BONGO 1	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0
BONGO 2	29	0	0	0	0	0	0	0	0	0	10	0	0	0	0	0	0	0	0	0
BONGO 3	14	0	5	0	0	0	0	0	0	0	15	0	0	0	0	0	0	0	0	0
BONGO 4	5	0	0	0	0	0	0	0	0	0	10	0	0	0	0	0	0	0	0	0
AURIGA 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AURIGA 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AURIGA 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AURIGA 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Table VII-34. Length-frequency information for Genyonemus lineatus from intake samples, 29-30 August 1978.

REPLICATE		INTAKE NUMBER OF INDIVIDUALS/1000 $N \times 3$									
		0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30
MORNING	1	66	0	0	0	0	0	0	0	0	0
	2	53	18	0	0	0	0	0	0	0	0
	3	39	0	0	0	0	0	0	0	0	0
	4	0	0	0	0	0	0	0	0	0	0
	5	72	0	0	0	0	0	0	0	0	0
	6	36	0	0	0	0	0	0	0	0	0
AFTERNOON	1	72	0	0	0	0	0	0	0	0	0
	2	18	0	0	0	0	0	0	0	0	0
	3	20	0	0	0	0	0	0	0	0	0
	4	74	0	0	0	0	0	0	0	0	0
	5	91	0	0	0	0	0	0	0	0	0
	6	0	0	0	0	0	0	0	0	0	0
SUNSET	1	43	0	0	0	0	0	0	0	0	0
	2	233	19	0	0	0	0	0	0	0	0
	3	90	0	0	0	0	0	0	0	0	0
	4	150	75	0	0	0	0	0	0	0	0
BEFORE MIDNIGHT	1	204	82	0	0	0	0	0	0	0	0
	2	273	51	0	0	0	0	0	0	0	0
	3	207	32	0	0	0	0	0	0	0	0
	4	34	0	0	0	0	0	0	0	0	0
	5	161	18	0	0	0	0	0	0	0	0
	6	273	153	0	0	0	0	0	0	0	0
AFTER MIDNIGHT	1	357	68	17	0	0	0	0	0	0	0
	2	341	18	0	0	0	0	0	0	0	0
	3	139	52	0	0	0	0	0	0	0	0
	4	198	36	0	0	0	0	0	0	0	0
	5	177	35	0	0	0	0	0	0	0	0
	6	105	0	0	0	0	0	0	0	0	0
SUNRISE	1	108	36	0	0	0	0	0	0	0	0
	2	148	0	0	0	0	0	0	0	0	0
	3	70	17	0	0	0	0	0	0	0	0
	4	72	18	0	0	0	0	0	0	0	0

Table VII-35. Length-frequency information for Seriphus politus from offshore tows, 29-30 August 1978.

		NUMBER OF INDIVIDUALS/1000 M <sup>2</sup> 3																		
NET TYPE REPLICATE		T-1										T-2								
		SIZE CLASS (MM.)										SIZE CLASS (MM.)								
		0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27
MANTA	1	0	0	0	0	0	0	0	0	0	15	0	0	0	0	0	0	0	0	0
	2	0	0	0	0	0	0	0	0	0	7	7	0	0	0	0	0	0	0	0
	3	0	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0
	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BONGO	1	0	659	178	0	0	4	0	0	0	5	9	0	0	0	0	0	0	0	0
	2	0	44	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3	0	34	25	0	0	0	0	0	0	13	9	0	0	0	0	0	0	0	0
	4	4	13	4	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0
AURIGA	1	18	661	384	0	0	0	0	0	0	48	19	0	10	0	0	0	0	0	0
	2	9	891	378	36	0	18	0	0	0	50	40	30	69	0	0	0	0	0	0
	3	0	891	1252	19	28	19	0	0	0	52	31	0	0	0	0	0	0	0	0
	4	0	533	647	35	0	9	0	0	0	0	59	20	0	0	0	0	0	0	0
-----																				
NET TYPE REPLICATE		C-1										C-2								
		SIZE CLASS (MM.)										SIZE CLASS (MM.)								
		0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27
MANTA	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2	7	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4	0	0	0	0	0	0	0	0	0	8	0	0	0	0	0	0	0	0	0
BONGO	1	4	68	4	0	0	0	0	0	0	5	5	0	0	0	0	0	0	0	0
	2	0	101	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0
	3	0	264	9	0	0	0	0	0	0	5	21	0	0	0	0	0	0	0	0
	4	16	48	0	0	0	0	0	0	0	20	24	0	0	0	0	0	0	0	0
AURIGA	1	0	2131	253	11	0	11	0	11	0	0	39	0	0	0	0	0	0	0	0
	2	0	1561	87	0	0	0	0	0	0	0	53	0	0	0	0	0	0	0	0
	3	0	4890	908	28	18	0	9	0	0	0	29	0	0	0	0	0	0	0	0
	4	0	1542	140	0	0	0	0	0	0	0	56	0	0	0	0	0	0	0	0

Table VII-36. Length-frequency information for *Seriphus politus* from intake samples, 29-30 August 1978.

		INTAKE NUMBER OF INDIVIDUALS/1000 M**3									
REPLICATE		0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30
MORNING	1	17	50	17	0	0	0	0	0	0	0
	2	18	0	18	0	0	0	0	0	0	0
	3	20	0	0	0	0	0	0	0	0	0
	4	0	17	0	0	0	0	0	0	0	0
	5	0	18	0	0	0	0	0	0	0	0
	6	18	18	0	0	0	0	0	0	0	0
AFTERNOON	1	91	18	0	0	0	0	0	0	0	0
	2	0	18	125	0	0	0	0	0	0	0
	3	0	141	0	0	0	0	0	0	0	0
	4	0	129	0	0	0	0	0	0	0	0
	5	18	91	0	0	0	0	0	0	0	0
	6	33	17	0	0	0	0	0	0	0	0
SUNSET	1	0	130	0	0	0	0	0	0	0	0
	2	19	117	19	19	0	19	0	0	0	0
	3	36	36	72	0	0	0	0	0	0	0
	4	0	285	30	0	0	0	0	0	0	0
BEFORE MIDNIGHT	1	82	82	0	0	0	0	0	0	0	0
	2	51	0	0	0	0	0	0	0	0	0
	3	32	0	0	0	0	0	0	0	0	0
	4	0	0	0	0	0	0	17	0	0	0
	5	89	18	18	0	18	18	18	0	0	0
	6	170	85	0	0	0	0	17	0	0	0
AFTER MIDNIGHT	1	85	17	0	0	0	0	0	0	0	0
	2	36	0	18	0	0	0	0	0	0	0
	3	52	0	17	0	0	0	0	0	0	0
	4	72	36	18	0	0	0	0	18	0	0
	5	35	71	0	0	0	0	0	0	0	0
	6	0	35	0	0	0	0	0	0	0	0
SUNRISE	1	36	18	0	0	0	0	0	0	0	0
	2	0	0	0	0	0	0	0	0	0	0
	3	17	17	0	0	0	0	0	0	0	0
	4	54	18	0	0	0	0	0	0	0	0

Table VII-37. Length-frequency information for Engraulis mordax from offshore tows, 29-30 September 1978.

		NUMBER OF INDIVIDUALS/1000 M <sup>3</sup>																		
		T-1									T-2									
NET TYPE REPLICATE		SIZE CLASS (MM.)									SIZE CLASS (MM.)									
		0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27
MANTA	1	6	0	0	0	0	0	0	0	0	0	8	0	0	0	0	0	0	0	0
	2	0	0	0	0	0	0	0	0	0	9	66	0	0	9	0	0	0	0	0
	3	8	0	0	0	0	0	0	0	0	0	7	0	0	7	0	7	7	0	0
	4	0	25	0	0	0	0	0	0	0	92	115	0	11	0	0	0	0	0	0
BONGO	1	7	108	7	7	4	11	4	0	0	75	471	14	43	14	36	4	11	4	0
	2	4	95	15	0	4	7	18	0	0	193	826	71	51	31	46	0	15	0	0
	3	28	163	19	23	19	19	0	0	0	163	1248	104	131	16	38	5	0	5	0
	4	138	449	29	6	6	23	0	0	0	312	1324	90	66	9	14	0	0	0	0
AURIGA	1	0	10	38	19	0	19	105	29	0	19	173	86	105	77	182	144	0	0	0
	2	0	10	10	0	10	40	30	10	0	0	196	59	98	138	196	98	20	0	0
	3	0	9	9	19	28	74	74	28	0	0	125	87	67	145	241	39	10	0	0
	4	0	10	0	0	0	99	59	10	0	19	205	88	49	166	263	166	0	0	0
		C-1									C-2									
NET TYPE REPLICATE		SIZE CLASS (MM.)									SIZE CLASS (MM.)									
		0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27
MANTA	1	0	0	0	0	0	0	0	0	0	8	0	0	0	0	0	0	0	0	0
	2	0	0	0	0	0	0	0	15	0	0	0	0	0	0	0	0	0	9	0
	3	0	0	0	0	0	0	8	0	0	0	0	0	0	7	0	7	0	7	0
	4	16	0	0	0	0	0	0	0	0	17	33	0	0	0	0	0	0	0	0
BONGO	1	5	0	0	0	27	37	16	0	0	21	21	0	5	37	37	11	0	5	0
	2	10	0	5	5	16	47	21	0	0	23	8	4	19	12	27	19	4	0	0
	3	38	33	0	0	0	11	0	0	0	47	73	0	0	10	0	0	0	0	0
	4	40	10	0	0	0	5	0	0	0	26	5	0	0	0	5	26	5	0	0
AURIGA	1	0	0	0	0	18	9	9	9	0	0	29	20	20	20	0	29	20	0	0
	2	0	0	0	0	36	164	128	9	0	0	18	9	90	63	72	27	72	0	0
	3	0	0	9	9	47	169	113	19	0	9	19	37	84	65	131	121	19	0	0
	4	0	0	0	18	9	37	55	18	0	9	9	37	140	131	84	103	19	0	0

Table VII-38. Length-frequency information for Engraulis mordax from intake samples, 29-30 September 1978.

NO INTAKE DATA

CIRCULATION  
PUMPS  
NOT  
OPERATING

Table VII-39. Length-frequency information for Genyonemus lineatus from offshore tows, 29-30 September 1978.

NUMBER OF INDIVIDUALS/1000 M<sup>2</sup>±3

NET TYPE REPLICATE	T-1										T-2									
	SIZE CLASS (MM.)										SIZE CLASS (MM.)									
	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30
MANTA 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BONGO 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AURIGA 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

NET TYPE REPLICATE	C-1										C-2									
	SIZE CLASS (MM.)										SIZE CLASS (MM.)									
	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30
MANTA 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BONGO 1	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AURIGA 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	18	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0



Table VII-40. Length-frequency information for Genyonemus lineatus  
from intake samples, 29-30 September 1978.

NO INTAKE DATA

CIRCULATION  
PUMPS  
NOT  
OPERATING

Table VII-41. Length-frequency information for *Seriphus politus* from offshore tows, 29-30 September 1978.

		NUMBER OF INDIVIDUALS/1000 M <sup>3</sup>																		
		T-1									T-2									
NET TYPE	REPLICATE	SIZE CLASS (MM.)									SIZE CLASS (MM.)									
		0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27
MANTA	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2	0	0	0	0	0	0	0	0	0	9	9	0	0	0	0	0	0	0	0
	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BONGO	1	0	4	7	0	0	0	0	0	0	11	0	0	0	0	0	0	0	0	0
	2	0	7	0	4	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0
	3	0	37	19	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0
	4	0	0	0	0	0	0	0	0	0	9	5	0	0	0	0	0	0	0	0
AURIGA	1	0	133	152	76	48	29	0	0	0	0	0	0	29	0	0	0	0	0	0
	2	0	149	229	139	70	20	10	0	0	0	0	10	0	20	0	0	0	0	0
	3	0	149	65	74	46	0	9	0	0	0	0	0	0	0	0	0	0	0	0
	4	10	217	198	188	128	49	10	0	0	0	0	0	0	0	0	0	0	0	0
		-----																		
		C-1									C-2									
NET TYPE	REPLICATE	SIZE CLASS (MM.)									SIZE CLASS (MM.)									
		0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27
MANTA	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BONGO	1	0	53	11	0	5	0	0	0	0	5	0	0	0	0	0	0	0	0	0
	2	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AURIGA	1	0	45	0	9	0	9	9	0	0	0	0	0	10	10	0	0	0	0	0
	2	0	319	82	36	55	0	9	0	0	0	9	0	0	0	0	0	0	0	0
	3	0	405	38	38	0	9	9	9	0	0	0	0	9	0	0	0	0	0	0
	4	0	193	28	28	0	0	0	0	0	0	9	9	9	9	0	0	0	0	0

Table VII-42. Length-frequency information for Seriphus politus from intake samples, 29-30 September 1978.

NO INTAKE DATA

CIRCULATION  
PUMPS  
NOT  
OPERATING

Table VII-43. Length-frequency information for Engraulis mordax from offshore tows, 31 October to 1 November 1978.

NUMBER OF INDIVIDUALS/1000 M\*\*3

NET TYPE REPLICATE	T-1										T-2									
	SIZE CLASS (MM.)										SIZE CLASS (MM.)									
	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30
MANTA 1	0	42	0	0	0	0	11	21	0	0	10	20	20	10	0	0	10	10	0	10
2	10	0	0	0	0	0	0	0	10	0	20	10	0	10	10	0	0	0	0	0
3	10	0	0	0	0	0	0	40	0	0	0	0	0	0	10	0	0	0	0	0
4	10	0	0	0	0	0	10	0	0	0	0	30	0	0	0	0	0	10	0	0
BRNGO 1	0	13	13	13	26	0	0	13	0	0	26	129	39	26	15	0	0	0	0	0
2	0	71	20	10	10	0	10	10	0	0	27	146	27	66	0	0	0	0	0	0
3	10	122	10	20	0	10	0	0	0	0	14	114	43	0	0	0	0	0	0	0
4	10	69	0	0	0	0	0	0	0	0	0	124	0	41	0	0	0	0	0	0
AURIGA 1	0	19	10	24	24	10	0	0	0	0	17	116	83	50	0	0	0	0	0	0
2	0	0	40	57	0	0	0	0	0	0	0	52	156	156	104	21	0	0	0	0
3	0	0	38	160	77	13	0	0	0	0	0	328	291	413	121	36	0	0	0	0
4	0	0	0	70	28	0	0	0	0	0	0	127	68	59	29	0	0	0	0	0

NET TYPE REPLICATE	C-1										C-2									
	SIZE CLASS (MM.)										SIZE CLASS (MM.)									
	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30
MANTA 1	10	30	10	0	0	0	0	0	0	0	10	30	0	0	0	0	10	20	0	0
2	0	0	0	0	0	0	0	0	0	0	20	120	0	10	0	0	20	20	0	0
3	12	23	0	0	0	0	12	0	0	0	70	70	10	10	0	0	10	0	0	0
4	0	0	0	0	0	10	10	0	0	0	140	110	10	0	10	20	10	10	0	0
BRNGO 1	20	61	10	31	20	0	0	0	0	0	20	60	40	20	0	10	0	0	0	0
2	10	83	0	21	10	41	0	0	0	0	22	207	11	54	54	33	11	0	0	0
3	0	31	10	0	0	10	0	0	0	0	33	55	11	44	0	44	0	11	0	0
4	0	0	11	21	0	0	0	0	0	0	10	10	10	31	0	0	0	0	0	0
AURIGA 1	0	0	12	18	24	0	6	0	0	0	0	66	246	313	198	78	6	0	0	0
2	0	7	39	92	72	13	0	0	0	0	0	71	463	684	178	71	28	7	0	0
3	0	19	29	73	53	39	29	5	0	0	0	25	219	523	209	75	15	0	0	0
4	0	12	66	70	54	12	25	0	0	0	6	104	127	479	110	46	6	17	0	0

Table VII-44. Length-frequency information for Engraulis mordax from intake samples, 31 October to 1 November 1978.

REPLICATE	INTAKE NUMBER OF INDIVIDUALS/1000 M**3									
	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30
MORNING 1	0	10	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	10	0	0	0	0	0
4	0	10	0	41	20	0	0	0	0	0
AFTERNOON 1	0	10	0	51	20	10	0	0	0	0
2	10	10	10	10	0	0	0	0	0	0
3	10	30	20	10	0	0	0	0	0	0
4	0	10	0	50	20	0	0	0	0	0
SUNSET 1	0	21	21	21	32	0	0	0	0	0
2	0	0	20	0	20	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0
BEFORE MIDNIGHT 1	51	41	0	0	0	0	0	0	0	0
2	21	11	0	0	0	0	0	0	0	0
3	40	20	0	0	0	0	0	0	0	0
4	20	41	0	0	0	0	0	0	0	0
AFTER MIDNIGHT 1	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0
4	0	0	0	10	0	0	0	0	0	0
SUNRISE 1	0	0	0	0	0	0	0	0	0	0
2	0	20	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0

Table VII-45. Length-frequency information for Genyonemus lineatus from offshore tows, 31 October to 1 November 1978.

		NUMBER OF INDIVIDUALS/1000 M**3																									
		T-1										T-2															
NET TYPE	REPLICATE	SIZE CLASS (MM.)										SIZE CLASS (MM.)															
		0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30						
MANTA	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BCNGO	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AURIGA	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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		C-1										C-2															
NET TYPE	REPLICATE	SIZE CLASS (MM.)										SIZE CLASS (MM.)															
		0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30						
MANTA	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BCNGO	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4	11	64	21	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AURIGA	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Table VII-46. Length-frequency information for Genyonemus lineatus  
from intake samples, 31 October to 1 November 1978.

REPLICATE	INTAKE NUMBER OF INDIVIDUALS/1000 M**3									
	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30
MORNING 1	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0
AFTERNOON 1	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0
SUNSET 1	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0
BEFORE MIDNIGHT 1	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0
AFTER MIDNIGHT 1	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0
SUNRISE 1	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0

Table VII-47. Length-frequency information for *Seriphus politus* from offshore tows, 31 October to 1 November 1978.

		NUMBER OF INDIVIDUALS/1000 M**3																						
NET TYPE REPLICATE		T-1								T-2														
		SIZE CLASS (MM.)								SIZE CLASS (MM.)														
		0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30			
MANTA	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BCNGO	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ALRIGA	1	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2	0	0	75	0	0	0	0	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3	0	0	19	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4	0	14	49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-----																								
NET TYPE REPLICATE		C-1								C-2														
		SIZE CLASS (MM.)								SIZE CLASS (MM.)														
		0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30			
MANTA	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3	0	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BCNGO	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ALRIGA	1	0	6	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2	0	7	7	0	0	0	0	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3	0	0	5	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4	0	0	8	4	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0



Table VII-48. Length-frequency information for Seriphus politus from intake samples, 31 October to 1 November 1978.

REPLICATE	INTAKE NUMBER OF INDIVIDUALS/1000 M**3									
	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30
MORNING 1	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0
3	0	10	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0
AFTERNOON 1	0	20	61	0	0	0	0	0	0	0
2	0	20	10	0	0	0	0	0	0	0
3	0	10	0	0	0	0	0	0	0	0
4	0	10	0	0	0	0	0	0	0	0
SUNSET 1	0	0	0	0	0	0	0	0	0	0
2	0	10	20	0	0	0	0	0	0	0
3	0	0	10	0	0	0	0	0	0	0
4	0	10	0	0	0	0	0	0	0	0
BEFORE MIDNIGHT 1	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0
AFTER MIDNIGHT 1	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0
SUNRISE 1	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0

Table VII-49. Length-frequency information for *Engraulis mordax* from offshore tows, 29-30 November 1978.

		NUMBER OF INDIVIDUALS/1000 M <sup>3</sup>																			
		T-1									T-2										
NET TYPE	REPLICATE	SIZE CLASS (MM.)									SIZE CLASS (MM.)										
		0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30
MANTA	1	20	0	0	0	0	0	0	0	0	0	134	17	0	0	0	0	0	0	0	
	2	0	21	0	0	0	0	0	0	0	0	67	10	0	0	0	0	0	0	0	
	3	10	29	0	0	0	0	0	0	10	0	51	25	0	0	0	0	0	0	0	
	4	9	38	28	0	0	0	9	0	0	0	8	0	8	0	0	0	0	0	0	
BOGGO	1	36	108	0	9	0	0	0	9	0	30	217	30	10	0	0	0	0	0	0	
	2	0	184	10	0	0	19	0	0	0	0	139	18	0	0	0	0	0	0	0	
	3	11	192	11	0	11	11	0	11	0	0	108	0	9	0	0	0	0	0	0	
	4	19	175	0	0	0	0	10	0	0	16	107	74	16	8	0	0	0	0	0	
AURIGA	1	0	11	11	16	11	0	0	0	0	5	20	20	54	29	10	0	0	0	0	
	2	0	26	16	52	16	0	0	0	0	0	10	34	141	194	83	10	5	5	10	
	3	0	0	9	38	9	5	0	0	0	0	5	25	86	76	15	0	0	0	0	
	4	0	10	24	34	5	0	0	0	0	5	64	30	108	84	49	0	0	0	0	
-----																					
		C-1									C-2										
NET TYPE	REPLICATE	SIZE CLASS (MM.)									SIZE CLASS (MM.)										
		0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30
MANTA	1	0	10	0	0	0	0	10	10	10	0	190	0	0	0	0	0	20	0	0	
	2	10	0	0	0	0	0	0	10	0	0	50	0	0	0	0	0	8	8	0	
	3	0	9	0	0	0	0	0	0	0	10	10	0	0	0	0	0	0	0	0	
	4	23	23	0	0	0	0	0	0	12	0	21	0	0	0	0	0	0	0	11	
BOGGO	1	9	139	46	0	19	9	0	0	0	89	204	89	44	9	9	0	0	0	0	
	2	0	110	0	0	0	0	0	0	0	40	326	56	8	0	8	0	0	0	0	
	3	19	47	9	0	0	19	9	0	0	81	360	105	35	12	12	0	0	0	0	
	4	21	116	21	21	11	0	0	0	0	72	452	93	0	0	10	0	10	0	0	
AURIGA	1	0	119	81	72	62	45	0	0	0	0	362	1007	258	144	30	0	0	0	0	
	2	0	25	87	61	81	76	5	0	0	20	223	450	124	50	5	0	0	0	0	
	3	0	24	45	81	43	62	5	10	0	0	171	404	176	57	0	0	0	0	0	
	4	0	30	22	17	30	91	9	9	0	0	258	501	291	56	0	5	0	0	0	

Table VII-50. Length-frequency information for *Engraulis mordax* from intake samples, 29-30 November 1978.

REPLICATE		INTAKE NUMBER OF INDIVIDUALS/1000 M**3									
		0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30
MORNING	1	0	20	0	0	0	0	0	0	0	0
	2	0	0	0	0	0	0	0	0	0	0
	3	0	39	0	0	0	0	0	0	0	0
	4	0	20	10	0	0	0	0	0	0	0
AFTERNOON	1	0	29	10	0	0	0	0	0	0	0
	2	10	0	20	0	0	0	0	0	0	0
	3	0	9	0	0	0	0	0	0	0	0
	4	0	0	0	0	0	0	0	0	0	0
SUNSET	1	0	10	0	10	0	0	0	0	0	0
	2	0	11	0	0	0	0	0	0	0	0
	3	0	0	0	0	0	0	0	0	0	0
	4	0	0	0	0	21	0	0	0	0	0
BEFORE MIDNIGHT	1	0	10	10	80	80	10	10	0	0	0
	2	22	0	0	33	98	22	0	0	0	0
	3	0	0	10	10	52	0	0	0	0	0
	4	10	0	0	10	31	94	0	10	0	0
AFTER MIDNIGHT	1	0	0	0	0	0	0	0	0	0	0
	2	0	10	0	10	21	0	0	0	0	0
	3	93	0	0	21	21	10	0	0	0	0
	4	0	10	0	10	31	0	0	0	0	0
SUNRISE	1	10	50	20	10	40	20	0	0	0	0
	2	0	10	0	0	10	0	0	0	0	0
	3	0	10	0	0	0	0	0	0	0	0
	4	11	53	0	0	0	0	0	0	0	0

Table VII-51. Length-frequency information for Genyonemus lineatus from offshore tows, 29-30 November 1978.

NUMBER OF INDIVIDUALS/1000 M<sup>2</sup>±3

NET TYPE REPLICATE	T-1										T-2									
	SIZE CLASS (MM.)										SIZE CLASS (MM.)									
	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30
MANTA 1	0	0	0	0	0	0	0	0	0	0	8	0	0	0	0	0	0	0	0	0
MANTA 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MANTA 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MANTA 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BONGO 1	9	0	0	0	0	0	0	0	0	0	49	0	0	0	0	0	0	0	0	0
BONGO 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BONGO 3	11	11	0	0	0	0	0	0	0	0	36	0	0	0	0	0	0	0	0	0
BONGO 4	10	0	0	0	0	0	0	0	0	0	25	0	0	0	0	0	0	0	0	0
AURIGA 1	0	37	0	0	0	0	0	0	0	0	0	54	5	0	0	0	0	0	0	0
AURIGA 2	0	26	5	0	0	0	0	5	0	0	0	238	0	0	0	0	0	0	0	0
AURIGA 3	0	42	5	0	0	0	0	0	0	0	0	136	5	0	0	0	0	0	0	0
AURIGA 4	0	15	10	0	0	0	0	0	0	0	0	118	0	5	0	0	0	0	0	0

NET TYPE REPLICATE	C-1										C-2									
	SIZE CLASS (MM.)										SIZE CLASS (MM.)									
	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30
MANTA 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MANTA 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MANTA 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MANTA 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BONGO 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BONGO 2	0	0	0	0	0	0	0	0	0	0	8	0	0	0	0	0	0	0	0	0
BONGO 3	0	0	0	0	0	0	0	0	0	0	23	0	0	0	0	0	0	0	0	0
BONGO 4	0	0	0	0	0	0	0	0	0	0	10	0	0	0	0	0	0	0	0	0
AURIGA 1	0	10	14	5	0	0	0	0	0	0	15	15	0	0	0	0	0	0	0	0
AURIGA 2	5	20	20	25	5	0	0	0	0	0	0	15	0	0	0	0	0	0	0	0
AURIGA 3	0	10	5	24	0	0	0	0	0	0	10	14	0	0	0	0	0	0	0	0
AURIGA 4	4	0	4	4	0	0	0	0	0	0	0	9	0	0	0	0	0	0	0	0

Table VII-52. Length-frequency information for Genyonemus lineatus  
from intake samples, 29-30 November 1978.

REPLICATE	INTAKE NUMBER OF INDIVIDUALS/1000 M**3									
	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30
MORNING 1	0	10	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0
4	20	10	0	0	0	0	0	0	0	0
AFTERNOON 1	39	10	0	0	0	0	0	0	0	0
2	0	10	0	0	0	0	0	0	0	0
3	27	9	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0
SUNSET 1	10	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0
BEFORE MIDNIGHT 1	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0
3	10	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0
AFTER MIDNIGHT 1	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0
3	10	0	0	0	0	0	0	0	0	0
4	10	0	0	0	0	0	0	0	0	0
SUNRISE 1	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0
4	11	11	0	0	0	0	0	0	0	0

Table VII-53. Length-frequency information for Seriphus politus from offshore tows, 29-30 November 1978.

NUMBER OF INDIVIDUALS/1000 M<sup>3</sup>

NET TYPE REPLICATE	T-1										T-2									
	SIZE CLASS (MM.)										SIZE CLASS (MM.)									
	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30
MANTA 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MANTA 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MANTA 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MANTA 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BCNGO 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BCNGO 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BCNGO 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BCNGO 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AURIGA 1	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0
AURIGA 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AURIGA 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AURIGA 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

NET TYPE REPLICATE	C-1										C-2									
	SIZE CLASS (MM.)										SIZE CLASS (MM.)									
	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30
MANTA 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MANTA 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MANTA 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MANTA 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BCNGO 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BCNGO 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BCNGO 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BCNGO 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AURIGA 1	0	0	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AURIGA 2	0	0	0	0	0	5	10	5	0	0	0	0	0	0	0	0	0	0	0	0
AURIGA 3	0	0	0	0	5	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0
AURIGA 4	0	0	0	0	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0

Table VII-54. Length-frequency information for Seriphus politus from intake samples, 29-30 November 1978.

REPLICATE	INTAKE NUMBER OF INDIVIDUALS/1000 M**3									
	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30
MORNING 1	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0
AFTERNOON 1	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0
SUNSET 1	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0
BEFORE MIDNIGHT 1	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0
AFTER MIDNIGHT 1	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0
SUNRISE 1	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0

Table VII-55. Length-frequency information for Engraulis mordax from offshore tows, 27-28 December 1978.

		NUMBER OF INDIVIDUALS/1000 M**3																		
		T-1									T-2									
NET TYPE REPLICATE		SIZE CLASS (MM.)									SIZE CLASS (MM.)									
		0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27
MANTA	1	548	990	29	0	0	0	0	0	0	810	2856	49	0	0	0	0	0	0	0
	2	127	24	8	0	0	0	0	0	0	435	1134	53	0	0	0	0	0	0	0
	3	333	113	21	0	0	0	0	0	0	278	1346	38	23	8	8	0	0	0	0
	4	254	1262	0	16	0	0	0	0	0	1435	589	15	0	0	0	0	0	0	0
BONGO	1	1643	832	10	0	0	0	0	0	0	2221	1525	134	0	0	0	0	0	0	0
	2	1162	912	134	67	10	10	0	0	0	1223	1299	42	8	0	0	0	0	0	0
	3	461	718	92	18	18	0	0	0	0	1913	998	152	8	0	0	0	0	0	0
	4	2217	1201	53	18	0	0	0	0	0	1232	969	229	8	8	0	0	0	0	0
AURIGA	1	258	277	57	57	325	86	38	0	0	1167	1514	36	0	0	0	0	0	0	0
	2	160	559	71	177	133	151	0	9	0	1254	1208	120	28	0	18	0	0	0	0
	3	127	158	127	179	454	158	0	0	0	763	780	87	26	35	0	0	0	0	0
	4	55	628	228	137	200	118	55	18	9	0	186	68	17	8	51	17	8	8	0

		C-1									C-2									
NET TYPE REPLICATE		SIZE CLASS (MM.)									SIZE CLASS (MM.)									
		0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27
MANTA	1	418	133	0	0	0	0	0	0	0	980	911	123	8	0	0	0	8	0	0
	2	165	394	39	8	0	8	0	0	0	188	737	102	0	0	0	0	0	0	0
	3	473	203	8	8	0	0	0	0	0	819	862	94	7	14	7	7	0	0	0
	4	130	375	14	0	0	0	0	0	0	304	444	59	0	0	0	0	0	0	0
BONGO	1	336	933	157	73	136	73	0	0	0	1461	1666	284	39	32	39	0	0	0	0
	2	537	1016	118	109	59	34	0	0	0	3002	2721	374	68	94	43	0	0	0	0
	3	1531	2177	336	172	188	41	8	0	0	2080	3501	466	93	109	39	23	8	0	0
	4	631	1523	331	126	63	16	0	0	0	2081	1821	321	23	54	23	8	0	0	0
AURIGA	1	63	27	36	117	144	54	9	0	0	58	135	48	48	68	19	10	0	0	0
	2	18	54	90	144	332	269	90	9	0	241	241	80	111	70	10	10	0	0	0
	3	53	36	18	125	240	142	36	9	0	399	369	70	110	40	70	0	0	0	0
	4	53	26	53	212	503	459	44	18	0	177	236	167	157	177	69	0	0	0	0



Table VII-57. Length-frequency information for Genyonemus lineatus  
from offshore tows, 27-28 December 1978.

		INTAKE NUMBER OF INDIVIDUALS/1000 M**3									
REPLICATE		0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30
MORNING	1	266	337	0	0	0	0	0	0	0	0
	2	341	171	0	0	0	0	0	0	0	0
	3	326	86	0	0	0	0	0	0	0	0
	4	34	68	0	0	0	0	0	0	0	0
AFTERNOON	1	836	480	108	0	0	0	0	0	0	0
	2	355	178	59	0	0	15	0	0	0	0
	3	436	30	30	0	0	0	0	0	0	0
	4	74	104	15	0	0	0	0	0	0	0
SUNSET	1	47	78	0	0	0	0	0	0	0	0
	2	0	47	0	0	0	0	0	0	0	0
	3	47	16	0	0	0	0	0	0	0	0
	4	66	66	0	0	0	0	0	0	0	0
BEFORE MIDNIGHT	1	559	1031	52	87	0	17	0	0	0	0
	2	960	489	87	70	87	0	0	0	0	0
	3	1135	856	70	35	0	0	0	0	0	0
	4	337	1473	355	160	53	0	0	0	0	0
AFTER MIDNIGHT	1	754	428	69	69	34	0	0	0	0	0
	2	827	396	69	52	69	0	0	0	0	0
	3	189	189	120	86	86	0	0	0	0	0
	4	829	743	138	69	17	0	0	0	0	0
SUNRISE	1	256	461	51	17	17	0	0	0	0	0
	2	210	192	17	0	0	0	0	0	0	0
	3	390	237	0	0	34	17	0	0	0	0
	4	203	254	17	0	0	0	0	0	0	0

Table VII-56. Length-frequency information for *Engraulis mordax* from intake samples, 27-28 December 1978.

		NUMBER OF INDIVIDUALS/1000 M <sup>3</sup>																	
NET TYPE REPLICATE		T-1										T-2							
		SIZE CLASS (MM.)										SIZE CLASS (MM.)							
		0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24
-----																			
MANTA	1	48	58	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2	40	32	0	0	0	0	0	0	0	0	0	23	0	0	0	0	0	0
	3	113	42	0	0	0	0	0	0	0	0	0	15	15	0	0	0	0	0
	4	222	16	0	0	0	0	0	0	0	0	0	38	8	0	0	0	0	0
BCNGO	1	51	10	0	0	0	0	0	0	0	0	107	27	0	0	0	0	0	0
	2	29	29	0	0	0	0	0	0	0	0	59	8	0	0	0	0	0	0
	3	92	37	0	0	0	0	0	0	0	0	91	0	0	0	0	0	0	0
	4	115	62	0	0	0	0	0	0	0	0	42	8	0	0	0	0	0	0
AURIGA	1	67	506	10	0	0	0	0	0	0	0	107	36	0	0	0	0	0	0
	2	44	177	9	0	0	0	0	0	0	0	92	74	0	0	0	0	0	0
	3	53	1024	42	0	0	0	0	0	0	0	35	35	0	0	0	0	0	0
	4	36	264	46	0	0	0	0	0	0	0	0	34	0	0	0	0	0	0
-----																			
NET TYPE REPLICATE		C-1										C-2							
		SIZE CLASS (MM.)										SIZE CLASS (MM.)							
		0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24
-----																			
MANTA	1	27	0	0	0	0	0	0	0	0	0	23	0	0	0	0	0	0	0
	2	31	8	0	0	0	0	0	0	0	0	31	0	0	0	0	0	0	0
	3	8	0	0	0	0	0	0	0	0	0	14	0	0	0	0	0	0	0
	4	7	0	0	0	0	0	0	0	0	0	22	0	0	0	0	0	0	0
BCNGO	1	10	0	0	0	0	0	0	0	0	0	55	0	0	0	0	0	0	0
	2	50	34	0	0	0	0	0	0	0	0	128	9	0	0	0	0	0	0
	3	49	41	0	0	0	0	0	0	0	0	62	31	0	0	0	0	0	0
	4	8	16	0	0	0	0	0	0	0	0	92	8	0	0	0	0	0	0
AURIGA	1	9	234	90	0	0	0	0	0	0	0	29	87	0	0	0	0	0	0
	2	0	188	90	9	0	0	0	0	0	0	0	30	0	0	0	0	0	0
	3	9	196	36	0	9	0	0	0	0	0	70	20	0	0	0	0	0	0
	4	9	106	18	0	0	0	0	0	0	0	10	29	0	0	0	0	0	0
-----																			

Table VII-58. Length-frequency information for Genyonemus lineatus  
from intake samples, 27-28 December 1978.

REPLICATE	INTAKE NUMBER OF INDIVIDUALS/1000 M**3									
	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30
MORNING 1	106	0	0	0	0	0	0	0	0	0
2	51	0	0	0	0	0	0	0	0	0
3	17	0	0	0	0	0	0	0	0	0
4	0	17	0	0	0	0	0	0	0	0
AFTERNOON 1	217	93	0	0	0	0	0	0	0	0
2	59	30	0	0	0	0	0	0	0	0
3	15	15	0	0	0	0	0	0	0	0
4	30	44	0	0	0	0	0	0	0	0
SUNSET 1	16	93	0	0	0	0	0	0	0	0
2	31	374	0	0	0	0	0	0	0	0
3	62	31	0	0	0	0	0	0	0	0
4	33	116	0	0	0	0	0	0	0	0
BEFORE MIDNIGHT 1	122	52	0	0	0	0	0	0	0	0
2	17	105	0	0	0	0	0	0	0	0
3	52	140	17	0	0	0	0	0	0	0
4	106	71	0	0	0	0	0	0	0	0
AFTER MIDNIGHT 1	34	154	0	0	0	0	0	0	0	0
2	17	69	0	0	0	0	0	0	0	0
3	0	51	17	0	0	0	0	0	0	0
4	86	155	0	0	0	0	0	0	0	0
SUNRISE 1	34	17	0	0	0	0	0	0	0	0
2	52	17	0	0	0	0	0	0	0	0
3	85	34	0	0	0	0	0	0	0	0
4	85	0	0	0	0	0	0	0	0	0

Table VII-59. Length-frequency information for Seriphus politus from offshore tows, 27-28 December 1978.

NUMBER OF INDIVIDUALS/1000 M<sup>3</sup>

NET TYPE REPLICATE	T-1										T-2									
	SIZE CLASS (MM.)										SIZE CLASS (MM.)									
	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30
MANTA 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MANTA 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MANTA 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MANTA 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BCNGO 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BCNGO 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BCNGO 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BCNGO 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AURIGA 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AURIGA 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AURIGA 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AURIGA 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

NET TYPE REPLICATE	C-1										C-2									
	SIZE CLASS (MM.)										SIZE CLASS (MM.)									
	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30
MANTA 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MANTA 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MANTA 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MANTA 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BCNGO 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BCNGO 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BCNGO 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BCNGO 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AURIGA 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AURIGA 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AURIGA 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AURIGA 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Table VII-60. Length-frequency information for Seriphus politus from intake samples, 27-28 December 1978.

REPLICATE	INTAKE NUMBER OF INDIVIDUALS/1000 M**3									
	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30
MORNING 1	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0
AFTERNOON 1	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0
SUNSET 1	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0
BEFORE MIDNIGHT 1	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0
AFTER MIDNIGHT 1	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0
SUNRISE 1	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0

Table VII-61. Length-frequency information for Engraulis mordax from offshore tows, 29-30 January 1979.

		NUMBER OF INDIVIDUALS/1000 M <sup>3</sup>																			
		T-1									T-2										
NET TYPE	REPLICATE	SIZE CLASS (MM.)									SIZE CLASS (MM.)										
		0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30
MANTA	1	26	17	0	9	0	0	0	0	34	9	15	7	0	7	0	7	44	0	7	22
	2	18	25	6	6	0	0	6	12	31	37	0	0	0	17	0	6	0	23	23	29
	3	26	20	7	0	0	0	0	7	0	52	49	8	8	0	25	0	0	0	8	8
	4	13	33	7	0	0	0	0	27	40	27	29	7	0	22	0	7	7	0	0	44
BENGO	1	19	25	95	13	0	0	0	6	0	0	29	43	57	107	29	21	7	0	0	29
	2	33	140	114	67	20	20	0	0	0	0	27	9	53	27	0	0	0	0	0	0
	3	0	77	77	56	14	14	0	0	0	0	44	116	116	71	27	44	0	0	9	0
	4	15	183	107	15	23	23	8	15	0	0	37	30	37	22	22	37	0	0	0	0
ALRIGA	1	0	9	128	119	110	18	27	0	9	0	0	131	113	84	47	9	0	0	0	0
	2	0	0	57	74	37	0	0	0	0	0	9	134	116	107	53	9	0	0	0	0
	3	0	18	133	35	27	89	9	0	0	0	8	304	93	59	34	8	0	8	0	0
	4	0	18	106	44	79	26	44	0	0	0	8	117	75	159	17	8	8	0	0	0

		C-1									C-2									
NET TYPE	REPLICATE	SIZE CLASS (MM.)									SIZE CLASS (MM.)									
		0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27
MANTA	1	26	34	17	0	0	0	0	0	0	26	149	185	35	0	0	0	0	0	0
	2	20	29	0	0	0	0	0	0	0	28	280	382	75	0	0	0	0	0	0
	3	40	30	30	0	0	0	0	0	0	31	47	0	0	0	0	0	0	0	0
	4	34	34	0	0	0	0	0	0	0	99	66	73	7	7	7	0	13	0	0
BENGO	1	18	54	18	91	18	36	9	0	0	47	338	263	131	9	9	0	0	0	0
	2	10	30	0	10	0	0	0	0	10	20	245	294	108	0	10	0	0	0	0
	3	10	100	20	40	20	30	0	0	0	27	151	107	27	0	0	0	0	0	0
	4	26	52	70	44	35	26	0	0	0	52	113	113	130	43	52	0	9	0	0
ALRIGA	1	137	160	595	1457	366	198	15	8	0	0	118	186	93	68	34	51	42	17	8
	2	39	226	1004	1540	615	272	39	62	0	0	73	49	416	831	253	90	49	33	0
	3	158	150	634	1362	491	222	79	16	16	0	0	48	368	696	96	56	72	40	16
	4	0	16	181	276	189	63	47	55	24	24	0	37	388	441	90	52	22	45	37

Table VII-62. Length-frequency information for Engraulis mordax from intake samples, 29-30 January 1979.

REPLICATE	INTAKE NUMBER OF INDIVIDUALS/1000 M**3									
	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30
MORNING 1	32	96	0	16	0	0	0	0	0	0
2	76	46	0	0	0	0	0	0	0	0
3	61	76	0	0	0	0	0	0	0	0
4	16	0	16	16	0	0	0	0	0	0
AFTERNOON 1	128	64	16	32	32	32	0	0	0	0
2	17	33	33	17	0	0	17	0	0	0
3	0	49	114	16	33	0	0	0	0	0
4	48	48	65	0	0	32	0	0	0	0
SUNSET 1	31	31	15	62	31	0	15	0	0	0
2	0	50	50	33	0	0	0	0	0	0
3	0	119	51	17	0	17	0	0	0	0
4	59	44	133	74	59	0	0	0	0	0
BEFORE MIDNIGHT 1	140	47	62	140	47	171	47	16	0	0
2	266	47	31	188	203	156	16	47	0	0
3	201	31	15	124	124	232	108	0	0	0
4	376	101	72	217	116	448	101	14	0	0
AFTER MIDNIGHT 1	586	31	0	108	62	123	31	15	15	0
2	108	15	15	185	92	200	154	31	123	31
3	310	77	31	77	186	372	124	170	108	15
4	47	94	47	173	189	126	110	94	94	47
SUNRISE 1	16	0	0	62	94	109	16	16	94	0
2	92	46	0	61	61	77	0	0	0	0
3	0	31	77	184	107	307	46	0	0	0
4	15	15	15	107	183	92	0	0	15	0

Table VII-63. Length-frequency information for Genyonemus lineatus from offshore tows, 29-30 January 1979.

		NUMBER OF INDIVIDUALS/1000 M**3																		
NET TYPE REPLICATE		T-1										T-2								
		SIZE CLASS (MM.)										SIZE CLASS (MM.)								
		0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27
MANTA	1	525	0	0	0	0	0	0	0	0	620	15	0	0	0	0	0	0	0	0
	2	448	6	0	0	0	0	0	0	0	522	12	0	0	0	0	0	0	0	0
	3	406	0	0	0	0	0	0	0	0	820	0	0	0	0	0	0	0	0	0
	4	1153	13	0	0	0	0	0	0	0	827	7	0	0	0	0	0	0	0	0
BCNGO	1	846	0	0	0	0	0	0	0	0	508	258	0	0	0	0	0	0	0	0
	2	454	7	0	0	0	0	0	0	0	399	44	0	0	0	0	0	0	0	0
	3	292	14	0	0	0	0	0	0	0	747	36	9	0	0	0	0	0	0	0
	4	1160	15	0	0	0	0	0	0	0	720	30	0	0	0	0	0	0	0	0
AURIGA	1	18	660	211	82	18	18	0	0	0	263	178	47	0	0	0	0	0	0	0
	2	55	518	268	65	18	9	0	0	0	178	169	45	18	0	0	0	0	0	0
	3	0	408	160	27	0	0	0	0	0	118	59	34	0	0	0	0	0	0	0
	4	97	475	290	70	18	0	0	0	0	117	33	17	8	0	0	0	0	0	0
-----																				
NET TYPE REPLICATE		C-1										C-2								
		SIZE CLASS (MM.)										SIZE CLASS (MM.)								
		0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27
MANTA	1	171	0	0	0	0	0	0	0	0	299	9	0	0	0	0	0	0	0	0
	2	98	0	0	0	0	0	0	0	0	382	9	0	0	0	0	0	0	0	0
	3	149	0	0	0	0	0	0	0	0	252	0	0	0	0	0	0	0	0	0
	4	188	0	0	0	0	0	0	0	0	350	0	0	0	0	0	0	0	0	0
BCNGO	1	163	0	0	0	0	0	0	0	0	469	28	0	0	0	0	0	0	0	0
	2	99	0	0	0	0	0	0	0	0	765	10	0	0	0	0	0	0	0	0
	3	179	0	0	0	0	0	0	0	0	337	9	0	0	0	0	0	0	0	0
	4	280	0	0	0	0	0	0	0	0	1222	9	0	0	0	0	0	0	0	0
AURIGA	1	656	854	374	61	8	0	0	0	0	473	4145	1748	245	8	0	0	0	0	0
	2	793	1385	451	163	16	0	0	0	0	1377	2168	1019	155	8	0	0	0	0	0
	3	927	1307	444	135	8	8	0	0	0	200	3014	1231	304	32	0	0	0	0	0
	4	102	2183	1025	276	24	0	0	0	0	2270	3495	1217	142	15	0	0	0	0	0



Table VII-64. Length-frequency information for Genyonemus lineatus from intake samples, 29-30 January 1979.

REPLICATE		INTAKE NUMBER OF INDIVIDUALS/1000 M**3									
		0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30
MORNING	1	1195	0	0	0	0	0	0	0	0	0
	2	963	0	0	0	0	0	0	0	0	0
	3	940	0	0	0	0	0	0	0	0	0
	4	1379	0	0	0	0	0	0	0	0	0
AFTERNOON	1	1267	0	0	0	0	0	0	0	0	0
	2	719	33	0	0	0	0	0	0	0	0
	3	1324	65	33	0	0	0	0	0	0	0
	4	1824	0	48	16	0	0	0	0	0	0
SUNSET	1	1154	0	46	15	0	0	0	0	0	0
	2	552	0	17	17	0	0	0	0	0	0
	3	578	0	0	51	17	0	0	0	0	0
	4	531	0	15	0	0	0	0	0	0	0
BEFORE MIDNIGHT	1	62	218	280	0	0	0	0	0	0	0
	2	94	125	94	16	0	0	0	0	0	0
	3	15	340	201	0	0	0	0	0	0	0
	4	116	130	116	0	0	0	0	0	0	0
AFTER MIDNIGHT	1	123	77	0	0	0	0	0	0	0	0
	2	31	0	15	0	0	0	0	0	0	0
	3	46	31	15	0	0	0	0	0	0	0
	4	47	63	31	0	0	0	0	0	0	0
SUNRISE	1	16	0	16	0	0	0	0	0	0	0
	2	15	15	0	0	0	0	0	0	0	0
	3	31	0	0	0	0	0	0	0	0	0
	4	15	31	0	0	0	0	0	0	0	0

Table VII-65. Length-frequency information for Seriphus politus from offshore tows, 29-30 January 1979.

		NUMBER OF INDIVIDUALS/1000 M**3																		
NET TYPE REPLICATE		T-1										T-2								
		SIZE CLASS (MM.)										SIZE CLASS (MM.)								
		0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27
MANTA	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BCNGO	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AURIGA	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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		NUMBER OF INDIVIDUALS/1000 M**3																		
NET TYPE REPLICATE		C-1										C-2								
		SIZE CLASS (MM.)										SIZE CLASS (MM.)								
		0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27
MANTA	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BCNGO	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AURIGA	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Table VII-66. Length-frequency information for Seriphus politus from intake samples, 29-30 January 1979.

REPLICATE	INTAKE NUMBER OF INDIVIDUALS/1000 M**3									
	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30
MORNING 1	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0
AFTERNOON 1	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0
SUNSET 1	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0
BEFORE MIDNIGHT 1	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0
AFTER MIDNIGHT 1	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0
SUNRISE 1	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0

Table VII-67. Length-frequency information for Engraulis mordax from offshore tows, 28 February to 1 March 1979.

		NUMBER OF INDIVIDUALS/1000 M <sup>2</sup> 3																			
NFT TYPE REPLICATE		T-1										T-2									
		SIZE CLASS (MM.)										SIZE CLASS (MM.)									
		0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30
MANTA	1	47	37	37	19	9	37	56	93	47	0	8	34	25	8	0	17	0	25	25	17
	2	76	50	17	0	0	17	17	17	0	8	8	35	8	0	0	0	0	24	0	24
	3	40	8	0	0	16	16	16	24	8	0	0	50	25	8	0	0	0	33	0	0
	4	32	71	16	16	0	8	16	39	16	16	86	24	24	16	0	0	16	16	16	0
BUNGO	1	120	137	92	168	185	89	69	7	17	3	22	251	111	89	48	29	38	13	13	3
	2	72	219	75	108	90	57	14	4	0	0	22	175	80	58	18	18	4	0	4	4
	3	240	118	104	83	70	35	24	0	0	3	53	86	71	59	39	21	21	3	12	0
	4	106	93	84	93	23	32	29	3	6	3	22	108	65	34	26	22	26	4	0	0
AURIGA	1	9	44	167	220	211	44	26	0	0	0	0	61	78	165	139	17	9	0	0	0
	2	0	9	26	77	94	68	26	9	0	0	0	0	60	180	140	20	10	0	0	0
	3	0	0	19	112	56	47	19	0	0	0	214	152	107	89	18	9	0	0	0	0
	4	0	20	129	198	287	179	149	50	30	0	47	84	347	309	234	75	19	0	0	0
-----																					
NFT TYPE REPLICATE		C-1										C-2									
		SIZE CLASS (MM.)										SIZE CLASS (MM.)									
		0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30
MANTA	1	0	22	0	15	0	0	0	0	0	0	35	0	0	0	0	0	0	0	9	0
	2	18	0	9	9	0	9	9	0	0	0	95	44	15	0	0	7	0	0	0	0
	3	60	20	20	10	0	0	0	0	0	0	89	24	8	8	0	0	0	0	0	0
	4	30	30	20	0	0	0	0	0	0	0	83	33	0	0	17	17	8	0	0	0
BUNGO	1	21	35	57	244	145	85	57	0	0	0	68	50	79	104	86	50	14	0	0	0
	2	115	19	43	154	168	29	29	5	0	0	83	109	49	68	34	23	11	4	0	0
	3	31	31	36	169	185	159	10	10	0	0	115	96	22	52	22	22	4	0	0	4
	4	4	40	27	49	80	62	40	0	0	0	97	65	68	50	22	18	11	4	0	0
AURIGA	1	0	76	439	848	953	744	315	38	0	0	100	150	376	485	368	125	75	59	8	0
	2	0	34	502	621	902	383	119	17	0	0	9	178	731	1212	731	223	53	62	9	0
	3	0	0	151	498	408	166	60	0	0	0	18	44	1835	1728	736	257	160	80	27	9
	4	10	68	194	427	369	146	107	0	0	0	8	48	1353	1474	889	360	128	96	32	8

Table VII-68. Length-frequency information for Engraulis mordax from intake samples, 28 February to 1 March 1979.

REPLICATE		INTAKE NUMBER OF INDIVIDUALS/1000 M**3									
		0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30
MORNING	1	120	50	10	40	10	0	0	0	0	0
	2	50	60	50	80	10	0	0	0	0	0
	3	80	80	10	20	80	10	0	0	0	0
	4	20	10	10	60	30	0	0	0	0	0
AFTERNOON	1	19	10	10	29	78	0	10	0	0	0
	2	30	30	0	30	110	10	10	0	0	0
	3	80	10	0	30	50	10	0	0	0	0
	4	30	40	10	50	40	30	0	0	0	0
SUNSET	1	30	20	80	250	160	80	30	0	0	0
	2	40	10	110	140	130	50	10	0	0	0
	3	10	30	200	60	50	40	30	0	0	0
	4	0	60	80	80	70	100	30	10	0	0
BEFORE MIDNIGHT	1	40	240	170	130	180	200	160	60	10	0
	2	0	360	190	100	20	140	40	50	40	0
	3	0	140	70	40	0	50	100	100	0	0
	4	60	270	110	90	30	90	70	20	20	0
AFTER MIDNIGHT	1	0	10	50	220	520	440	130	60	0	0
	2	10	90	30	340	760	620	240	10	20	0
	3	0	60	90	190	300	240	130	10	10	0
	4	10	10	60	50	120	50	40	20	0	0
SUNRISE	1	0	0	20	40	50	20	0	0	0	0
	2	0	20	0	10	60	40	30	10	0	0
	3	0	20	0	10	60	40	30	10	0	0
	4	40	30	0	10	20	10	0	0	0	0

Table VII-69. Length-frequency information for Genyonemus lineatus from offshore tows, 28 February to 1 March 1979.

		NUMBER OF INDIVIDUALS/1000 M**3																			
		T-1										T-2									
NET TYPE	REPLICATE	SIZE CLASS (MM.)										SIZE CLASS (MM.)									
		0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30
MANTA	1	28	0	0	0	0	0	0	0	0	0	8	0	0	0	8	0	0	0	0	0
	2	17	0	0	0	0	0	0	0	0	0	8	0	0	0	0	0	0	0	0	0
	3	32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4	16	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BONGO	1	140	134	27	0	0	0	0	0	0	98	210	3	0	0	0	0	0	0	0	
	2	115	57	7	0	0	0	0	0	0	36	11	0	0	0	0	0	0	0	0	
	3	97	7	0	0	0	0	0	0	0	65	12	0	0	0	0	0	0	0	0	
	4	68	93	39	10	6	0	0	0	0	41	4	4	0	0	0	0	0	0	0	
AURIGA	1	202	941	589	202	114	9	0	0	0	61	95	26	113	9	0	0	0	0	0	
	2	102	2952	1433	205	60	0	0	0	0	40	260	0	80	40	0	0	0	0	0	
	3	186	2521	856	140	19	9	9	0	0	250	89	143	98	62	9	0	0	0	0	
	4	0	961	584	168	79	10	10	0	0	47	216	122	75	0	0	0	0	0	0	

		C-1										C-2								
NET TYPE	REPLICATE	SIZE CLASS (MM.)										SIZE CLASS (MM.)								
		0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27
MANTA	1	15	0	0	0	0	0	0	0	0	18	0	0	0	0	0	0	0	0	0
	2	18	0	0	0	0	0	0	0	0	59	15	0	0	0	0	0	0	0	0
	3	40	0	0	0	0	0	0	0	0	65	8	0	0	0	0	0	0	0	0
	4	40	0	0	0	0	0	0	0	0	66	17	0	0	0	0	0	0	0	0
BONGO	1	14	117	4	0	0	0	0	0	0	143	97	4	0	0	0	0	0	0	
	2	34	14	0	0	0	0	0	0	0	105	26	4	0	0	0	0	0	0	
	3	26	5	0	0	0	0	0	0	0	63	7	0	0	0	0	0	0	0	
	4	4	0	0	0	0	0	0	0	0	83	32	0	0	0	0	0	0	0	
AURIGA	1	305	486	105	10	0	0	0	0	0	719	535	17	0	8	0	0	0	0	
	2	289	604	145	34	26	0	0	0	0	775	1648	98	0	0	0	0	0	0	
	3	0	438	45	15	0	0	0	0	0	736	2163	27	27	9	0	0	9	0	
	4	175	233	165	58	0	0	0	0	0	905	2427	200	8	16	24	0	0	0	

Table VII-70. Length-frequency information for Genyonemus lineatus  
from intake samples, 28 February to 1 March 1979.

REPLICATE	INTAKE NUMBER OF INDIVIDUALS/1000 M**3									
	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30
MORNING 1	30	10	10	0	0	0	0	0	0	0
2	40	30	0	0	0	0	0	0	0	0
3	20	0	0	0	0	0	0	0	0	0
4	0	0	10	0	0	0	0	0	0	0
AFTERNOON 1	39	39	0	0	0	0	0	0	0	0
2	10	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0
4	30	0	0	0	0	0	0	0	0	0
SUNSET 1	100	140	10	10	0	0	0	0	0	0
2	60	60	80	0	0	0	0	0	0	0
3	20	400	230	10	0	0	0	0	0	0
4	0	460	420	20	0	0	0	0	0	0
BEFORE MIDNIGHT 1	60	190	70	0	0	0	0	0	0	0
2	70	180	40	0	0	0	0	0	0	0
3	0	50	30	0	0	0	0	0	0	0
4	100	10	20	0	0	0	0	0	0	0
AFTER MIDNIGHT 1	0	90	40	0	0	0	0	0	0	0
2	20	60	30	10	0	0	0	0	0	0
3	10	20	20	0	0	0	0	0	0	0
4	0	30	30	0	0	0	0	0	0	0
SUNRISE 1	0	10	0	0	0	0	0	0	0	0
2	0	0	10	0	0	0	0	0	0	0
3	0	10	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0

Table VII-71. Length-frequency information for Seriphus politus from offshore tows, 28 February to 1 March 1979.

		NUMBER OF INDIVIDUALS/1000 M**3																		
		T-1									T-2									
NET TYPE	REPLICATE	SIZE CLASS (MM.)									SIZE CLASS (MM.)									
		0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27
MANTA	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BONGO	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0
	3	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ALRIGA	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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		C-1									C-2									
NET TYPE	REPLICATE	SIZE CLASS (MM.)									SIZE CLASS (MM.)									
		0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27
MANTA	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BONGO	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0
	3	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0
	4	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0
ALRIGA	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0



Table VII-72. Length-frequency information for Seriphus politus from intake samples, 28 February to 1 March 1979.

REPLICATE	INTAKE NUMBER OF INDIVIDUALS/1000 M**3									
	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30
MORNING 1	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0
AFTERNOON 1	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0
SUNSET 1	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0
BEFORE MIDNIGHT 1	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0
AFTER MIDNIGHT 1	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0
SUNRISE 1	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0

Table VII-73. Length-frequency information for Engraulis mordax from offshore tows, 29-30 March 1979.

		NUMBER OF INDIVIDUALS/1000 M <sup>3</sup> S																			
		T-1									T-2										
NET TYPE REPLICATE		SIZE CLASS (MM.)									SIZE CLASS (MM.)										
		0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30
MANTA	1	10	29	390	88	0	0	10	20	0	0	216	595	424	153	117	126	117	81	0	
	2	10	30	30	30	0	0	79	79	30	29	300	746	465	97	10	39	0	19	0	
	3	0	55	79	55	24	0	0	8	63	126	29	106	309	232	29	10	0	0	0	
	4	0	51	203	42	17	34	42	135	76	42	0	33	174	257	58	17	25	42	0	42
BCNGO	1	113	161	484	525	355	210	387	202	169	8	74	271	418	394	238	107	25	0	0	8
	2	79	236	1260	1526	394	118	128	128	128	39	86	249	524	241	146	163	138	77	43	17
	3	95	259	1922	2069	621	267	129	60	43	9	78	217	451	234	130	147	43	0	35	0
	4	66	418	2916	2650	522	95	47	0	19	0	81	386	4147	3241	404	99	0	0	0	9
AURIGA	1	9	103	159	103	28	47	187	271	112	9	0	157	131	13	26	26	105	92	105	13
	2	10	29	358	561	106	58	242	609	570	97	55	1338	847	475	150	8	0	24	32	0
	3	0	37	12	12	0	25	37	49	74	12	9	28	0	9	47	19	47	38	9	28
	4	0	83	331	134	21	41	155	259	279	83	0	0	135	54	18	36	63	45	27	9
		C-1									C-2										
NET TYPE REPLICATE		SIZE CLASS (MM.)									SIZE CLASS (MM.)										
		0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30
MANTA	1	0	0	37	37	0	28	0	0	0	0	28	84	298	186	28	28	19	0	0	0
	2	0	29	58	10	19	0	10	19	0	0	0	141	160	85	4	9	19	19	9	0
	3	0	10	30	50	20	60	10	10	0	0	0	87	226	131	70	0	0	0	0	0
	4	28	18	37	28	18	65	46	28	9	0	17	101	269	168	25	34	0	8	0	0
BCNGO	1	10	157	1701	3192	1218	745	651	283	94	0	82	1041	4638	3164	618	144	52	10	0	0
	2	55	229	1276	2105	971	393	229	87	0	11	201	1058	4463	4379	1005	233	180	95	11	11
	3	76	33	1365	4074	1408	1148	704	412	173	0	172	940	5450	5379	991	253	51	0	0	0
	4	62	185	1964	3774	1532	648	237	144	0	10	19	861	3582	3832	1064	213	28	0	0	0
AURIGA	1	0	0	133	630	630	1358	1855	1237	352	24	0	598	4197	8478	2212	1052	1411	813	933	143
	2	0	11	448	1790	975	1595	3167	2903	1090	126	0	100	1887	8335	4750	1509	1365	1199	1021	333
	3	0	0	122	591	626	1582	1721	539	226	17	0	59	2648	9026	3337	2043	1413	772	463	59
	4	0	0	321	1304	962	1604	2234	1882	620	86	0	0	0	0	0	0	0	0	0	0

Table VII-74. Length-frequency information for Engraulis mordax from intake samples, 29-30 March 1979.

REPLICATE	INTAKE NUMBER OF INDIVIDUALS/1000 M**3									
	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30
MORNING 1	10	160	480	650	900	420	200	70	0	0
2	20	110	1080	2270	1820	540	40	0	0	0
3	20	110	1080	2430	1120	320	90	20	0	0
4	150	120	540	1560	740	270	40	0	0	0
AFTERNOON 1	150	20	180	940	300	180	50	10	10	0
2	19	9	132	321	283	75	0	0	0	0
3	60	0	70	890	350	40	20	0	0	0
4	60	20	150	590	120	70	20	10	0	0
SUNSET 1	51	0	77	408	170	85	0	0	0	0
2	10	0	60	300	450	90	0	0	0	0
3	20	20	160	730	740	500	420	120	20	0
4	40	0	200	750	580	1280	1200	380	40	0
BEFORE MIDNIGHT 1	20	90	670	790	660	1090	1350	1710	110	30
2	0	60	390	590	570	770	1170	1660	200	10
3	10	110	360	440	430	460	1480	2260	1370	40
4	0	140	190	160	140	250	910	1150	1090	60
AFTER MIDNIGHT 1	60	180	740	760	530	610	700	510	120	0
2	60	170	370	530	200	520	730	630	1600	0
3	0	160	250	560	630	620	1120	700	630	60
4	40	130	900	1290	1600	1770	1980	1090	130	10
SUNRISE 1	10	360	1450	1190	580	400	440	160	300	0
2	80	680	1060	1450	480	170	180	60	20	10
3	120	370	2990	2130	290	110	20	60	0	0
4	0	120	440	580	110	30	0	10	0	0

Table VII-75. Length-frequency information for Genyonemus lineatus from offshore tows, 29-30 March 1979.

		NUMBER OF INDIVIDUALS/1000 M <sup>2</sup> ±3																		
		T-1									T-2									
NET TYPE	REPLICATE	SIZE CLASS (MM.)									SIZE CLASS (MM.)									
		0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27
MANTA	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BCNGO	1	8	0	8	0	0	0	0	0	0	0	16	16	0	0	0	0	0	0	0
	2	0	59	20	20	0	0	0	0	0	9	69	69	0	0	0	0	0	0	0
	3	34	0	0	0	0	0	0	0	0	52	9	9	0	0	0	0	0	0	0
	4	19	0	0	0	0	0	0	0	0	0	27	0	0	0	0	0	0	0	0
AURIGA	1	9	19	19	9	19	0	0	0	0	0	92	210	131	52	13	0	0	0	0
	2	0	58	10	39	19	10	0	0	0	16	32	32	16	0	0	0	0	0	0
	3	12	49	0	0	0	0	12	0	0	0	38	38	47	56	75	0	0	0	0
	4	21	83	52	52	62	62	0	10	0	0	9	81	36	54	36	0	0	0	0
-----																				
		C-1									C-2									
NET TYPE	REPLICATE	SIZE CLASS (MM.)									SIZE CLASS (MM.)									
		0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27
MANTA	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2	19	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3	0	0	0	0	0	0	0	0	0	0	9	0	0	0	0	0	0	0	0
	4	0	0	0	0	0	0	0	0	0	67	0	0	0	0	0	0	0	0	0
BCNGO	1	0	73	63	21	0	0	0	0	0	103	72	10	10	0	0	0	0	0	0
	2	11	33	11	0	0	0	0	0	0	53	21	11	0	0	0	0	0	0	0
	3	43	206	152	43	0	0	0	0	0	30	30	71	10	0	0	0	0	0	0
	4	21	82	154	31	0	0	0	0	0	56	9	37	0	0	0	0	0	0	0
AURIGA	1	61	776	885	97	24	0	0	0	0	108	3851	1411	287	108	84	0	0	0	0
	2	11	700	792	172	69	11	0	0	0	33	3008	2131	344	55	11	0	0	0	0
	3	0	887	800	313	70	0	0	0	0	71	9751	6271	950	226	12	0	0	0	0
	4	0	759	1668	299	267	64	32	32	0	10	4474	3369	568	248	21	0	0	0	0

Table VII-76. Length-frequency information for Genyonemus lineatus  
from intake samples, 29-30 March 1979.

REPLICATE		INTAKE NUMBER OF INDIVIDUALS/1000 M**3									
		0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30
MORNING	1	0	300	100	0	0	0	0	0	0	0
	2	40	160	30	0	0	0	0	0	0	0
	3	0	20	20	0	0	0	0	0	0	0
	4	150	40	0	0	0	0	0	0	0	0
AFTERNOON	1	60	20	0	0	0	0	0	0	0	0
	2	0	19	9	0	0	0	0	0	0	0
	3	70	0	0	0	0	0	0	0	0	0
	4	10	0	0	0	0	0	0	0	0	0
SUNSET	1	9	0	0	0	0	0	0	0	0	0
	2	10	0	0	0	0	0	0	0	0	0
	3	10	0	0	0	0	0	0	0	0	0
	4	40	20	10	0	0	0	0	0	0	0
BEFORE MIDNIGHT	1	10	40	0	0	0	0	0	0	0	0
	2	20	10	0	0	0	0	0	0	0	0
	3	50	30	0	0	0	0	0	0	0	0
	4	0	30	0	10	0	0	0	0	0	0
AFTER MIDNIGHT	1	10	10	10	0	0	0	0	0	0	0
	2	0	20	10	0	0	0	0	0	0	0
	3	10	10	0	0	0	0	0	0	0	0
	4	0	10	40	0	0	0	0	0	0	0
SUNRISE	1	0	90	40	0	10	0	0	0	0	0
	2	20	80	30	0	0	0	0	0	0	0
	3	0	20	60	0	0	0	0	0	0	0
	4	0	0	0	0	0	0	0	0	0	0

Table VII-77. Length-frequency information for Seriphus politus from offshore tows, 29-30 March 1979.

		NUMBER OF INDIVIDUALS/1000 M <sup>2</sup> *3																		
		T-1									T-2									
NET TYPE	REPLICATE	SIZE CLASS (MM.)									SIZE CLASS (MM.)									
		0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27
MANTA	1	0	0	0	0	0	0	0	0	0	9	0	0	0	0	0	0	0	0	0
	2	0	0	0	0	0	0	0	0	0	39	0	0	0	0	0	0	0	0	0
	3	0	0	0	0	0	0	0	0	0	29	0	0	0	0	0	0	0	0	0
	4	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BCNGO	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2	0	0	0	0	0	0	0	0	0	9	0	0	0	0	0	0	0	0	0
	3	0	0	0	0	0	0	0	0	0	9	0	0	0	0	0	0	0	0	0
	4	9	0	0	0	0	0	0	0	0	9	0	0	0	0	0	0	0	0	0
ALRIGA	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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		C-1									C-2									
NET TYPE	REPLICATE	SIZE CLASS (MM.)									SIZE CLASS (MM.)									
		0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27
MANTA	1	0	0	0	0	0	0	0	0	0	9	0	0	0	0	0	0	0	0	0
	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4	0	0	0	0	0	0	0	0	0	17	8	0	0	0	0	0	0	0	0
BCNGO	1	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2	0	0	0	0	0	0	0	0	0	21	0	0	0	0	0	0	0	0	0
	3	0	0	0	0	0	0	0	0	0	30	30	0	0	0	0	0	0	0	0
	4	31	0	0	0	0	0	0	0	0	28	0	0	0	0	0	0	0	0	0
ALRIGA	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3	0	17	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0
	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Table VII-78. Length-frequency information for Seriphus politus from intake samples, 29-30 March 1979.

REPLICATE	INTAKE NUMBER OF INDIVIDUALS/1000 M**3									
	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30
MORNING 1	10	0	0	0	0	0	0	0	0	0
2	10	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0
4	20	0	0	0	0	0	0	0	0	0
AFTERNOON 1	0	10	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0
SUNSET 1	17	0	0	0	0	0	0	0	0	0
2	20	0	0	0	0	0	0	0	0	0
3	10	0	0	0	0	0	0	0	0	0
4	0	10	0	0	0	0	0	0	0	0
BEFORE MIDNIGHT 1	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0
3	10	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0
AFTER MIDNIGHT 1	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0
SUNRISE 1	0	0	0	0	0	0	0	0	0	0
2	10	0	0	0	0	0	0	0	0	0
3	10	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0

Table VII-79. Length-frequency information for Engraulis mordax from offshore tows, 30 April to 1 May 1979.

NUMBER OF INDIVIDUALS/1000 M\*\*3

NET TYPE REPLICATE	T-1										T-2									
	SIZE CLASS (MM.)										SIZE CLASS (MM.)									
	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30
MANTA 1	395	132	19	38	0	19	0	38	0	0	356	431	19	75	94	0	19	0	0	0
2	918	600	0	19	56	0	0	19	0	0	474	201	73	73	73	18	55	55	55	0
3	2289	757	0	0	57	0	0	0	0	0	994	239	18	74	110	37	0	74	0	0
4	2042	397	18	36	18	0	0	0	0	0	1356	297	0	19	37	0	0	0	19	37
BONGO 1	2229	630	45	180	203	90	68	0	0	0	767	269	21	21	124	83	62	21	0	0
2	591	831	66	241	306	503	284	22	0	0	1937	861	129	65	258	108	65	0	22	0
3	988	408	43	301	430	451	193	43	0	0	525	189	63	84	63	42	0	0	0	0
4	2384	145	54	181	361	36	72	0	0	0	1587	235	157	137	235	39	0	0	0	0
AURIGA 1	0	35	207	587	2349	1624	345	173	0	0	102	136	68	0	0	34	0	0	0	0
2	0	100	267	633	2933	2067	667	100	0	0	66	165	429	330	561	66	33	0	0	0
3	0	69	0	929	2202	1342	172	0	34	0	364	198	298	661	926	463	132	66	0	0
4	167	0	67	603	3414	2008	167	33	0	0	0	0	0	145	289	109	0	36	0	0

NET TYPE REPLICATE	C-1										C-2									
	SIZE CLASS (MM.)										SIZE CLASS (MM.)									
	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30
MANTA 1	881	287	0	19	0	0	0	0	0	0	1146	104	0	0	0	0	0	0	0	0
2	985	56	0	37	37	0	0	0	0	0	985	417	0	38	38	19	0	0	0	0
3	755	116	0	0	39	0	19	39	0	0	896	411	0	0	56	0	0	0	0	37
4	977	527	0	0	0	20	0	0	20	20	2089	91	0	0	109	36	18	0	0	0
BONGO 1	511	0	21	85	277	213	21	0	0	0	1640	341	0	64	128	192	43	43	21	0
2	993	136	0	58	273	195	78	39	0	0	962	430	184	246	368	327	61	41	0	0
3	1153	182	0	40	61	142	61	0	0	0	1807	570	59	196	471	236	59	0	0	0
4	534	308	21	205	308	267	62	21	0	0	1313	604	146	104	292	438	104	0	0	0
AURIGA 1	156	31	31	31	1682	1619	529	0	0	0	32	32	64	640	1695	1855	704	64	0	0
2	0	0	0	62	864	834	309	31	0	0	0	0	101	806	1881	1949	538	101	34	0
3	708	185	0	62	123	123	123	0	0	0	29	174	232	726	929	871	319	58	58	0
4	181	151	121	271	482	964	362	30	0	0	152	518	518	1128	1159	1281	457	61	0	30



Table VII-80. Length-frequency information for *Engraulis mordax* from intake samples, 30 April to 1 May 1979.

REPLICATE		INTAKE NUMBER OF INDIVIDUALS/1000 M**3									
		0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30
MORNING	1	40	100	20	180	480	260	40	20	0	0
	2	320	100	0	200	320	440	40	0	0	0
	3	480	180	0	60	280	480	380	20	40	0
	4	840	100	40	200	1060	1120	300	100	0	0
AFTERNOON	1	40	60	0	0	40	0	0	0	0	0
	2	460	400	0	40	20	0	0	0	0	0
	3	740	20	0	0	40	0	0	0	0	0
	4	360	360	0	20	20	0	0	0	0	0
SUNSET	1	1080	840	0	0	40	60	20	0	0	0
	2	1960	900	0	0	0	60	40	0	0	0
	3	4440	820	0	0	120	300	60	0	0	0
	4	480	240	0	0	100	200	80	0	0	0
BEFORE MIDNIGHT	1	660	80	20	40	120	360	240	40	0	0
	2	620	160	40	140	360	460	340	60	0	0
	3	320	140	40	80	480	300	60	60	0	0
	4	700	140	20	140	280	240	160	0	0	0
AFTER MIDNIGHT	1	360	20	20	100	240	100	20	0	0	0
	2	140	0	0	0	220	100	0	0	0	0
	3	260	0	0	40	220	220	80	0	0	0
	4	360	20	20	120	240	240	220	0	0	0
SUNRISE	1	860	140	0	80	240	340	140	40	0	0
	2	160	60	40	180	460	300	200	20	0	0
	3	840	160	0	40	500	540	140	0	0	0
	4	300	60	40	100	440	340	140	20	0	0

Table VII-81. Length-frequency information for Genyonemus lineatus from offshore tows, 30 April to 1 May 1979.

		NUMBER OF INDIVIDUALS/1000 M <sup>3</sup>																		
		T-1									T-2									
NET TYPE	REPLICATE	SIZE CLASS (MM.)									SIZE CLASS (MM.)									
		0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27
MANTA	1	56	0	0	0	0	0	0	0	0	19	0	0	0	0	0	0	0	0	0
	2	37	0	0	0	0	0	0	0	0	36	0	0	0	0	0	0	0	0	0
	3	38	0	0	0	0	0	0	0	0	18	0	0	0	0	0	0	0	0	0
	4	36	0	0	0	0	0	0	0	0	56	0	0	0	0	0	0	0	0	0
BONGO	1	68	0	0	0	0	0	0	0	0	104	0	0	21	0	0	0	0	0	0
	2	109	22	0	44	0	0	0	0	0	0	0	22	22	0	0	0	0	0	0
	3	172	0	21	0	0	0	0	0	0	84	21	0	0	0	0	0	0	0	0
	4	163	18	18	0	0	0	0	0	0	98	39	0	0	0	0	0	0	0	0
AURIGA	1	138	69	104	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2	33	33	0	67	33	0	0	0	0	99	132	0	0	33	0	0	0	0	0
	3	0	34	172	34	0	0	0	0	0	0	237	0	0	0	0	0	0	0	0
	4	33	33	100	67	33	0	0	0	0	0	0	0	0	36	0	0	0	0	0

		C-1									C-2								
NET TYPE	REPLICATE	SIZE CLASS (MM.)									SIZE CLASS (MM.)								
		0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	27-30	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27
MANTA	1	19	0	0	0	0	0	0	0	0	35	0	0	0	0	0	0	0	0
	2	0	0	0	0	0	0	0	0	0	38	0	0	0	0	0	0	0	0
	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BONGO	1	21	21	21	0	0	0	0	0	0	64	0	0	0	0	0	0	0	0
	2	97	0	0	0	0	0	0	0	0	20	0	0	0	0	0	0	0	0
	3	0	0	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4	0	0	0	41	0	0	0	0	0	21	0	0	0	0	0	0	0	0
AURIGA	1	0	187	280	280	125	0	0	0	0	0	32	32	96	0	0	0	0	0
	2	31	31	93	216	93	31	0	0	0	34	34	34	0	0	0	0	0	0
	3	0	31	0	0	0	0	0	0	0	0	0	0	29	0	0	0	0	0
	4	0	121	60	30	0	0	0	0	0	30	0	0	0	0	0	0	0	0

Table VII-82. Length-frequency information for Genyonemus lineatus  
from intake samples, 30 April to 1 May 1979.

REPLICATE	INTAKE NUMBER OF INDIVIDUALS/1000 M**3									
	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30
MORNING 1	60	0	0	0	0	0	0	0	0	0
2	20	0	0	0	0	0	0	0	0	0
3	0	40	0	0	0	0	0	0	0	0
4	80	20	0	0	0	0	0	0	0	0
AFTERNOON 1	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0
3	40	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0
SUNSET 1	0	0	0	0	0	0	0	0	0	0
2	0	0	0	20	0	0	0	0	0	0
3	20	0	0	0	0	0	0	0	0	0
4	0	0	20	0	0	0	0	0	0	0
BEFORE MIDNIGHT 1	0	60	140	100	0	0	0	0	0	0
2	40	40	20	20	0	0	0	0	0	0
3	60	60	40	40	0	0	0	0	0	0
4	60	40	40	80	0	0	0	0	0	0
AFTER MIDNIGHT 1	20	80	0	0	0	0	0	0	0	0
2	0	40	20	0	0	0	0	0	0	0
3	20	20	20	20	0	0	0	0	0	0
4	20	40	40	0	0	0	0	0	0	0
SUNRISE 1	0	0	0	0	0	0	0	0	0	0
2	0	20	0	0	0	0	0	0	0	0
3	0	40	0	0	0	0	0	0	0	0
4	0	0	20	0	0	0	0	0	0	0

Table VII-83. Length-frequency information for Seriphus politus from offshore tows, 30 April to 1 May 1979.

		NUMBER OF INDIVIDUALS/1000 M**3																			
		T-1								T-2											
NET TYPE	REPLICATE	SIZE CLASS (MM.)								SIZE CLASS (MM.)											
		0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30
MANTA	1	597	0	0	0	0	0	0	0	0	37	0	0	0	0	0	0	0	0	0	
	2	75	0	0	0	0	0	0	0	0	55	0	0	0	0	0	0	0	0	0	
	3	114	0	0	0	0	0	0	0	0	37	0	0	0	0	0	0	0	0	0	
	4	126	0	0	0	0	0	0	0	0	37	0	0	0	0	0	0	0	0	0	
BONGO	1	45	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	2	22	0	0	0	0	0	0	0	0	43	0	0	0	0	0	0	0	0	0	
	3	21	43	0	0	0	0	0	0	0	21	0	0	0	0	0	0	0	0	0	
	4	36	0	0	0	0	0	0	0	0	78	0	0	0	0	0	0	0	0	0	
AURIGA	1	0	35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	2	33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	4	0	67	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
-----																					
		C-1								C-2											
NET TYPE	REPLICATE	SIZE CLASS (MM.)								SIZE CLASS (MM.)											
		0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30
MANTA	1	58	0	0	0	0	0	0	0	0	17	0	0	0	0	0	0	0	0	0	
	2	56	0	0	0	0	0	0	0	0	133	0	0	0	0	0	0	0	0	0	
	3	77	0	0	0	0	0	0	0	0	112	0	0	0	0	0	0	0	0	0	
	4	0	0	0	0	0	0	0	0	0	163	0	0	0	0	0	0	0	0	0	
BONGO	1	43	0	0	0	0	0	0	0	0	43	0	0	0	0	0	0	0	0	0	
	2	0	19	0	0	0	0	0	0	0	225	0	0	0	0	0	0	0	0	0	
	3	81	0	0	0	0	0	0	0	0	39	0	0	0	0	0	0	0	0	0	
	4	21	41	0	0	0	0	0	0	0	63	0	0	0	0	0	0	0	0	0	
ALRIGA	1	31	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	2	0	0	0	0	0	0	0	0	0	34	0	0	0	0	0	0	0	0	0	
	3	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	4	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

Table VII-84. Length-frequency information for Seriphus politus from intake samples, 30 April to 1 May 1979.

REPLICATE		INTAKE NUMBER OF INDIVIDUALS/1000 M**3									
		0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30
MORNING	1	60	20	0	0	0	0	0	0	0	0
	2	40	40	0	0	0	0	0	0	0	0
	3	60	0	0	0	0	0	0	0	0	0
	4	60	80	0	0	0	0	0	0	0	0
AFTERNOON	1	20	0	0	0	0	0	0	0	0	0
	2	120	0	0	0	0	0	0	0	0	0
	3	0	20	0	0	0	0	0	0	0	0
	4	120	0	0	0	0	0	0	0	0	0
SUNSET	1	280	0	0	0	0	0	0	0	0	0
	2	380	20	0	0	0	0	0	0	0	0
	3	140	20	0	0	0	0	0	0	0	0
	4	40	0	0	0	0	0	0	0	0	0
BEFORE MIDNIGHT	1	20	40	0	0	0	0	0	0	0	0
	2	0	0	0	0	0	0	0	0	0	0
	3	20	20	0	0	0	0	0	0	0	0
	4	20	60	0	0	0	0	0	0	0	0
AFTER MIDNIGHT	1	0	0	0	0	0	0	0	0	0	0
	2	0	0	0	0	0	0	0	0	0	0
	3	20	20	0	0	0	0	0	0	0	0
	4	40	20	0	0	0	0	0	0	0	0
SUNRISE	1	20	80	0	0	0	0	0	0	0	0
	2	20	40	0	0	0	0	0	0	0	0
	3	60	40	0	0	0	0	0	0	0	0
	4	20	40	0	0	0	0	0	0	0	0

Table VII-85. Length-frequency information for Engraulis mordax from offshore tows, 30-31 May 1979.

NUMBER OF INDIVIDUALS/1000 M<sup>3</sup>

NET TYPE REPLICATE	T-1										T-2									
	SIZE CLASS (MM.)										SIZE CLASS (MM.)									
	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30
MANTA 1	0	0	0	0	0	0	0	0	31	0	0	0	0	0	32	32	0	0	0	
2	0	0	0	0	0	0	0	127	0	0	62	0	0	0	0	0	0	0	31	
3	0	0	0	0	0	0	0	0	0	0	0	31	0	0	0	0	0	62	62	
4	0	0	0	0	0	0	0	0	32	0	0	0	0	0	0	0	0	31	0	
BCNGO 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2	0	19	0	0	0	0	0	0	0	0	0	0	0	18	73	37	0	0	0	
3	0	0	0	0	0	0	18	0	0	0	20	0	0	39	20	20	0	0	0	
4	0	0	0	0	0	0	0	0	0	0	0	0	0	18	0	37	0	0	0	
AURIGA 1	0	0	0	0	0	374	83	0	0	0	0	0	0	36	250	358	0	0	0	
2	0	0	0	0	79	236	472	79	0	79	0	0	0	209	452	70	0	0	0	
3	0	0	0	37	0	75	75	75	0	0	0	0	0	153	458	38	0	0	0	
4	0	0	0	0	170	468	255	170	0	0	0	0	0	36	0	144	36	0	0	

NET TYPE REPLICATE	C-1										C-2									
	SIZE CLASS (MM.)										SIZE CLASS (MM.)									
	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30
MANTA 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	35	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	32	0	0	0	0	0	0	0	0	0
BCNGO 1	18	0	0	0	73	73	36	36	0	0	20	0	0	20	20	20	20	0	20	20
2	38	0	0	19	19	38	38	77	57	57	39	0	0	0	0	0	0	0	0	0
3	0	0	0	0	111	241	167	19	37	0	20	20	79	0	0	0	0	0	0	0
4	0	0	0	0	2	4	2	12	20	0	0	0	35	0	0	0	17	17	0	0
AURIGA 1	0	0	38	229	610	495	1181	1524	457	0	0	0	979	1880	431	353	470	353	118	78
2	0	113	75	151	189	377	300	528	264	113	0	0	2063	2063	884	847	921	847	442	74
3	0	39	193	347	270	501	693	732	193	39	0	0	1305	1147	435	554	751	672	119	119
4	40	0	360	280	280	440	400	320	120	0	0	79	749	315	158	158	79	79	0	0

Table VII-86. Length-frequency information for Engraulis mordax from intake samples, 30-31 May 1979.

REPLICATE	INTAKE NUMBER OF INDIVIDUALS/1000 M**3									
	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30
MORNING 1	0	0	0	0	0	80	40	0	0	0
2	20	0	0	0	60	40	0	0	0	0
3	0	0	20	0	20	40	0	0	0	0
4	40	0	0	0	20	40	0	0	0	0
AFTERNOON 1	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0
SUNSET 1	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0
BEFORE MIDNIGHT 1	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	40	0	0	0
3	0	0	0	0	0	0	0	20	0	0
4	0	0	0	0	0	20	0	0	0	0
AFTER MIDNIGHT 1	0	0	0	0	0	0	40	20	0	0
2	0	0	0	0	0	0	20	0	0	0
3	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	20	120	80	0	0	0
SUNRISE 1	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	20	0	20	0	0	0
3	20	0	0	0	0	180	80	80	0	0
4	20	0	0	0	20	40	20	0	0	0

Table VII-87. Length-frequency information for Genyonemus lineatus from offshore tows, 30-31 May 1979.

		NUMBER OF INDIVIDUALS/1000 M <sup>3</sup>																		
		T=1									T=2									
NET TYPE	REPLICATE	SIZE CLASS (MM.)									SIZE CLASS (MM.)									
		0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27
MANTA	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BONGO	1	0	18	0	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2	0	0	0	0	0	0	0	0	0	0	18	18	0	0	0	0	0	0	0
	3	0	0	0	0	0	0	0	0	0	0	20	39	20	0	0	0	0	0	0
	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AURIGA	1	0	0	42	42	42	42	0	0	0	0	107	501	143	0	0	0	0	0	0
	2	0	39	79	157	590	157	79	0	0	7	66	21	3	0	0	0	0	0	0
	3	0	0	37	37	187	0	0	0	0	0	0	611	115	115	0	0	0	0	0
	4	0	0	85	43	170	43	43	0	0	0	108	685	180	36	36	0	0	0	0
-----																				
		C=1									C=2									
NET TYPE	REPLICATE	SIZE CLASS (MM.)									SIZE CLASS (MM.)									
		0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27
MANTA	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BONGO	1	36	0	0	0	0	0	0	0	0	0	39	59	20	0	0	0	0	0	0
	2	0	0	38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3	0	37	37	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4	0	0	78	0	0	20	0	0	0	0	122	70	0	0	0	0	0	0	0
AURIGA	1	0	495	2172	152	38	0	0	0	0	0	118	392	39	39	0	0	0	0	0
	2	0	226	906	189	0	0	0	0	0	18	33	4	4	0	0	0	0	0	0
	3	0	39	1156	39	154	39	0	0	0	0	119	395	0	40	0	0	0	0	0
	4	0	40	200	120	0	0	0	0	0	0	0	118	79	0	0	0	0	0	0



Table VII-88. Length-frequency information for Genyonemus lineatus  
from intake samples, 30-31 May 1979.

REPLICATE	INTAKE NUMBER OF INDIVIDUALS/1000 M**3									
	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30
MORNING 1	20	20	20	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0
3	0	20	20	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0
AFTERNOON 1	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0
SUNSET 1	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0
BEFORE MIDNIGHT 1	0	40	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0
4	0	40	0	20	0	0	0	0	0	0
AFTER MIDNIGHT 1	0	0	0	0	0	0	0	0	0	0
2	0	0	0	20	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0
SUNRISE 1	0	0	20	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0

Table VII-89. Length-frequency information for Seriphus politus from offshore tows, 30-31 May 1979.

		NUMBER OF INDIVIDUALS/1000 M <sup>2</sup> ±3																			
NET TYPE	REPLICATE	T-1									T-2										
		SIZE CLASS (MM.)									SIZE CLASS (MM.)										
		0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30
MANTA	1	31	0	0	0	0	0	0	0	0	96	0	0	0	0	0	0	0	0	0	0
	2	0	0	0	0	0	0	0	0	0	402	0	0	0	0	0	0	0	0	0	0
	3	0	0	0	0	0	0	0	0	0	93	0	0	0	0	0	0	0	0	0	0
	4	0	0	0	0	0	0	0	0	0	275	0	0	0	0	0	0	0	0	0	0
RCNGO	1	0	0	0	0	0	0	0	0	0	19	0	0	0	0	0	0	0	0	0	0
	2	38	0	0	0	0	0	0	0	0	128	0	0	0	0	0	0	0	0	0	0
	3	18	0	0	0	0	0	0	0	0	39	20	0	0	0	0	0	0	0	0	0
	4	18	0	0	0	0	0	0	0	0	37	74	0	0	0	0	0	0	0	0	0
AURIGA	1	0	125	166	0	0	0	0	0	0	143	0	0	0	0	0	0	0	0	0	0
	2	0	118	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3	0	75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4	0	213	85	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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		C-1									C-2										
NET TYPE	REPLICATE	SIZE CLASS (MM.)									SIZE CLASS (MM.)										
		0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30
MANTA	1	33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2	0	0	0	0	0	0	0	0	0	35	0	0	0	0	0	0	0	0	0	0
	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4	0	0	0	0	0	0	0	0	0	97	0	0	0	0	0	0	0	0	0	0
RCNGO	1	0	0	0	0	0	0	0	0	0	20	0	0	0	0	0	0	0	0	0	0
	2	0	19	0	0	0	0	0	0	0	19	0	0	0	0	0	0	0	0	0	0
	3	0	37	19	0	0	0	0	0	0	20	0	0	0	0	0	0	0	0	0	0
	4	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AURIGA	1	191	152	76	0	0	0	0	0	0	0	196	0	0	0	0	0	0	0	0	0
	2	38	0	0	0	0	0	0	0	0	479	295	0	0	0	0	0	0	0	0	0
	3	0	39	0	0	0	0	0	0	0	119	514	0	0	0	0	0	0	0	0	0
	4	40	40	0	0	0	0	0	0	0	39	513	0	0	0	0	0	0	0	0	0

Table VII-90. Length-frequency information for Seriphus politus from intake samples, 30-31 May 1979.

REPLICATE	INTAKE NUMBER OF INDIVIDUALS/1000 M**3									
	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30
MORNING 1	0	20	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0
3	0	60	0	0	0	0	0	0	0	0
4	60	0	0	0	0	0	0	0	0	0
AFTERNOON 1	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0
SUNSET 1	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0
BEFORE MIDNIGHT 1	0	0	20	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0
3	0	0	40	0	0	0	0	0	0	0
4	0	0	20	0	0	0	0	0	0	0
AFTER MIDNIGHT 1	0	0	100	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0
3	0	0	20	0	0	0	0	0	0	0
4	0	2000	0	0	0	0	0	0	0	0
SUNRISE 1	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0
4	4000	4000	0	0	0	0	0	0	0	0

Table VII-91. Length-frequency information for Engraulis mordax from offshore tows, 27-28 June 1979.

		NUMBER OF INDIVIDUALS/1000 M**3																			
		T-1									T-2										
NET TYPE	REPLICATE	SIZE CLASS (MM.)									SIZE CLASS (MM.)										
		0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30
MANTA	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	35	0	0
	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	40	0
	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4	0	0	0	0	0	0	0	0	38	0	0	0	0	0	0	0	0	0	0	0
BONGO	1	0	0	0	0	0	0	19	19	19	0	0	0	0	18	0	0	0	18	0	0
	2	0	0	0	0	0	0	67	117	17	34	0	0	0	17	0	17	0	50	67	0
	3	0	0	0	0	0	0	19	0	0	0	0	0	0	0	0	16	47	0	0	0
	4	0	0	0	19	0	19	19	0	0	0	0	0	0	0	0	0	101	43	14	0
AURIGA	1	0	0	0	0	0	0	35	176	211	141	0	0	0	0	0	87	145	58	0	0
	2	0	0	0	0	0	0	74	184	332	221	37	0	0	0	0	35	35	104	0	0
	3	0	0	0	0	0	0	35	176	212	565	35	0	0	30	0	91	333	61	0	0
	4	0	0	0	0	33	33	661	463	264	99	0	0	0	0	0	26	53	79	26	0

		C-1									C-2										
NET TYPE	REPLICATE	SIZE CLASS (MM.)									SIZE CLASS (MM.)										
		0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30
MANTA	1	0	0	0	0	0	0	0	40	0	0	0	0	0	0	0	0	0	0	0	0
	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4	0	0	0	36	0	0	36	0	0	0	0	0	0	0	0	0	0	0	0	0
BONGO	1	0	0	0	0	0	0	0	18	0	0	17	35	0	35	52	17	0	0	0	0
	2	0	0	20	0	20	80	40	0	0	0	18	73	0	18	18	91	0	18	0	0
	3	0	0	0	0	0	19	0	0	58	0	0	0	17	51	84	51	17	17	0	0
	4	0	18	0	0	18	0	36	18	0	0	0	19	37	75	19	37	149	56	19	0
AURIGA	1	0	0	28	142	57	85	0	0	57	0	0	30	90	90	510	420	240	30	60	0
	2	0	0	58	58	29	87	29	0	0	0	0	127	317	222	285	761	571	159	63	32
	3	0	0	0	28	28	84	56	0	0	0	0	0	100	469	502	803	268	254	33	0
	4	0	0	0	0	0	0	0	0	0	0	0	31	314	346	629	377	157	31	0	0

Table VII-92. Length-frequency information for Engraulis mordax from intake samples, 27-28 June 1979.

REPLICATE	INTAKE NUMBER OF INDIVIDUALS/1000 M**3									
	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30
MORNING 1	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	10	10	0
3	0	0	0	0	20	0	0	0	0	10
4	0	0	0	0	0	0	0	0	0	0
AFTERNOON 1	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	10	0	0
4	0	0	0	0	0	0	0	10	0	0
SUNSET 1	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	20	0
3	0	0	0	0	0	0	30	30	10	0
4	0	0	0	0	0	0	0	80	80	0
BEFORE MIDNIGHT 1	0	0	30	0	0	0	110	170	20	0
2	0	0	0	0	10	80	460	330	40	0
3	0	0	0	0	10	60	860	670	80	10
4	0	0	0	0	0	50	400	260	60	0
AFTER MIDNIGHT 1	0	0	0	0	0	50	330	130	0	0
2	0	0	0	0	0	40	150	80	20	0
3	0	0	0	0	0	60	160	50	0	10
4	0	0	0	0	0	20	180	90	0	10
SUNRISE 1	0	0	0	0	0	40	130	130	0	0
2	0	0	0	0	0	20	130	70	0	0
3	0	0	0	0	0	10	50	20	0	0
4	0	0	0	0	0	0	0	0	0	0

Table VII-93. Length-frequency information for Genyonemus lineatus from offshore tows, 27-28 June 1979.

		NUMBER OF INDIVIDUALS/1000 M <sup>2</sup> ±3																		
		T-1									T-2									
NET TYPE	REPLICATE	SIZE CLASS (MM.)									SIZE CLASS (MM.)									
		0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27
MANTA	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BCNGO	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AURIGA	1	0	0	0	0	35	0	70	0	0	0	0	0	0	0	0	0	0	0	0
	2	0	0	0	0	0	37	0	0	0	0	0	0	0	0	0	0	0	0	0
	3	0	0	0	35	0	35	0	0	0	0	0	0	0	0	0	0	0	0	0
	4	0	0	33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		C-1									C-2									
NET TYPE	REPLICATE	SIZE CLASS (MM.)									SIZE CLASS (MM.)									
		0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27
MANTA	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BCNGO	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AURIGA	1	0	0	28	0	0	28	0	0	0	0	0	0	0	0	0	0	0	0	0
	2	0	29	29	29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Table VII-94. Length-frequency information for Genyonemus lineatus  
from intake samples, 27-28 June 1979.

REPLICATE		INTAKE NUMBER OF INDIVIDUALS/1000 M**3									
		0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30
MORNING	1	0	0	0	0	0	0	0	0	0	0
	2	0	0	0	0	0	0	0	0	0	0
	3	0	0	0	0	0	0	0	0	0	0
	4	0	0	0	0	0	0	0	0	0	0
AFTERNOON	1	0	0	0	0	0	0	0	0	0	0
	2	0	0	0	0	0	0	0	0	0	0
	3	0	0	0	0	0	0	0	0	0	0
	4	0	0	0	0	0	0	0	0	0	0
SUNSET	1	0	0	0	0	0	0	0	0	0	0
	2	0	0	0	0	0	0	0	0	0	0
	3	0	0	0	0	0	0	0	0	0	0
	4	0	0	0	0	0	0	0	0	0	0
BEFORE MIDNIGHT	1	0	0	0	0	0	0	0	0	0	0
	2	0	0	0	0	0	0	0	0	0	0
	3	0	0	0	0	0	0	0	0	0	0
	4	0	0	0	0	0	0	0	0	0	0
AFTER MIDNIGHT	1	0	0	0	0	0	0	0	0	0	0
	2	0	0	0	0	0	0	0	0	0	0
	3	0	0	0	0	0	0	0	0	0	0
	4	0	0	0	0	0	0	0	0	0	0
SUNRISE	1	0	0	0	0	0	0	0	0	0	0
	2	0	0	0	0	0	0	0	0	0	0
	3	0	0	0	0	0	0	0	0	0	0
	4	0	0	0	0	0	0	0	0	0	0

Table VII-95. Length-frequency information for Seriphus politus from offshore tows, 27-28 June 1979.

NUMBER OF INDIVIDUALS/1000 M\*\*3

NET TYPE REPLICATE	T-1										T-2									
	SIZE CLASS (MM.)										SIZE CLASS (MM.)									
	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30
MANTA 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	120	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	36	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	33	0	0	0	0	0	0	0	0	0
BCNGO 1	0	0	0	0	0	0	0	0	0	0	0	18	0	0	0	0	0	0	0	0
2	0	0	17	0	0	0	0	0	0	0	0	17	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	16	0	0	0	0	0	0	0	0	0
4	0	19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AURIGA 1	0	70	211	1722	246	176	0	35	0	0	0	0	0	0	0	0	0	0	0	0
2	0	37	37	553	553	37	37	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	247	212	953	141	0	35	0	0	0	30	0	0	30	0	0	0	0	0	0
4	0	231	0	595	529	66	33	33	0	0	0	0	0	55	0	0	0	0	0	0

NET TYPE REPLICATE	C-1										C-2									
	SIZE CLASS (MM.)										SIZE CLASS (MM.)									
	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30
MANTA 1	0	0	0	0	0	0	0	0	0	0	120	0	0	0	0	0	0	0	0	0
2	79	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	36	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BCNGO 1	0	18	18	0	0	0	0	0	0	0	17	17	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	73	36	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	67	51	0	0	0	0	0	0	0	0
4	18	18	0	0	0	0	0	0	0	0	56	19	0	0	0	0	0	0	0	0
AURIGA 1	0	28	340	454	766	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	319	377	58	0	0	0	0	0	32	0	0	0	0	0	0	0	0	0
3	0	0	0	0	84	0	28	0	0	0	0	67	0	0	0	0	0	0	0	0
4	31	0	0	0	0	0	0	0	0	0	0	31	0	0	0	0	0	0	0	0



Table VII-96. Length-frequency information for Seriphus politus from intake samples, 27-28 June 1979.

REPLICATE		INTAKE NUMBER OF INDIVIDUALS/1000 M**3									
		0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30
MORNING	1	0	10	0	0	0	0	0	0	0	0
	2	0	0	0	0	0	0	0	0	0	0
	3	0	0	0	0	0	0	0	0	0	0
	4	0	0	0	0	0	0	0	0	0	0
AFTERNOON	1	0	0	0	0	0	0	0	0	0	0
	2	0	0	0	0	0	0	0	0	0	0
	3	0	0	0	0	0	0	0	0	0	0
	4	0	0	0	0	0	0	0	0	0	0
SUNSET	1	0	0	0	0	0	0	0	0	0	0
	2	0	0	10	0	0	0	0	0	0	0
	3	0	0	10	0	0	0	0	0	0	0
	4	0	0	0	0	0	0	0	0	0	0
BEFORE MIDNIGHT	1	0	10	0	0	0	10	0	0	0	0
	2	0	20	0	10	0	0	0	0	0	0
	3	0	70	0	10	0	0	0	0	0	0
	4	0	110	10	0	0	0	0	0	0	0
AFTER MIDNIGHT	1	0	10	0	0	0	0	10	10	0	0
	2	0	0	0	0	0	10	0	0	0	0
	3	0	10	0	0	0	0	0	0	0	0
	4	0	40	0	0	0	0	0	0	0	0
SUNRISE	1	0	30	10	10	0	0	0	0	0	0
	2	0	0	0	0	0	0	0	0	0	0
	3	0	0	0	0	0	0	0	0	0	0
	4	0	0	0	0	0	0	0	0	0	0

Table VII-97. Length-frequency information for Engraulis mordax from offshore tows, 30-31 July 1979.

		NUMBER OF INDIVIDUALS/1000 M <sup>3</sup>																		
		T-1								T-2										
NET TYPE	REPLICATE	SIZE CLASS (MM.)								SIZE CLASS (MM.)										
		0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27
MANTA	1	327	0	0	0	0	0	0	0	0	495	0	0	0	0	0	0	0	0	0
	2	786	34	0	0	0	0	0	0	0	632	37	0	0	0	0	0	0	0	0
	3	622	146	0	0	0	0	0	0	0	148	0	0	0	0	0	0	0	0	0
	4	146	36	0	0	0	0	0	0	0	375	0	0	0	0	0	0	0	0	0
BCNGO	1	79	20	0	20	0	20	0	20	0	19	19	0	38	0	19	38	0	19	0
	2	18	18	0	18	0	72	143	54	0	37	110	18	18	0	18	18	0	0	0
	3	59	98	59	59	39	79	39	0	0	76	19	57	57	19	38	0	19	0	0
	4	602	376	94	19	0	0	19	0	0	872	1109	158	0	0	0	0	0	20	0
AURIGA	1	0	0	0	68	68	373	542	102	0	0	0	0	134	179	89	134	45	0	0
	2	0	0	0	0	0	203	237	68	0	0	0	187	375	450	337	599	112	37	0
	3	0	0	0	35	71	424	424	248	35	0	139	174	243	590	764	694	312	0	0
	4	0	0	0	0	78	663	819	195	39	0	0	0	0	0	0	0	0	0	0

		C-1								C-2										
NET TYPE	REPLICATE	SIZE CLASS (MM.)								SIZE CLASS (MM.)										
		0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27
MANTA	1	233	39	0	0	0	0	0	0	0	137	137	0	0	0	0	0	0	0	0
	2	442	37	0	0	0	0	0	0	0	485	224	0	0	0	0	0	0	0	0
	3	320	40	0	0	0	0	0	0	0	296	222	0	0	0	0	0	0	0	0
	4	144	108	0	0	0	0	0	0	0	339	113	0	0	0	0	0	0	0	0
BCNGO	1	295	20	0	0	20	20	0	0	0	1929	2560	343	126	0	0	0	18	18	0
	2	217	79	39	20	0	59	39	0	0	1184	1751	32	65	49	16	32	0	0	0
	3	451	162	90	0	0	54	18	18	18	1598	2425	150	19	19	0	56	0	0	0
	4	792	1452	151	94	38	0	0	0	0	5220	870	0	0	0	0	79	0	0	0
AURIGA	1	0	78	78	0	0	39	0	0	0	0	74	222	111	37	185	148	37	0	0
	2	0	185	0	37	74	0	37	0	0	0	38	38	38	226	263	151	0	0	0
	3	0	0	0	39	0	39	39	0	0	0	36	144	108	144	397	649	108	0	0
	4	0	0	0	0	0	42	42	0	0	0	58	191	114	114	267	191	76	0	0

Table VII-98. Length-frequency information for *Engraulis mordax* from intake samples, 30-31 July 1979.

REPLICATE	INTAKE NUMBER OF INDIVIDUALS/1000 M**3									
	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30
MORNING 1	80	0	0	0	0	0	40	80	80	0
2	40	0	0	0	0	80	40	0	0	0
3	240	0	0	0	0	0	0	0	0	0
4	40	0	40	0	0	0	0	0	0	0
AFTERNOON 1	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0
4	40	40	0	0	0	0	0	0	0	0
SUNSET 1	0	0	0	0	0	0	40	0	0	0
2	40	0	0	0	0	0	0	80	0	0
3	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	40	80	0	0
BEFORE MIDNIGHT 1	40	40	0	0	0	120	360	160	0	0
2	40	40	0	0	0	160	400	400	0	0
3	120	40	0	0	0	80	200	240	0	0
4	0	40	40	0	0	0	80	160	160	40
AFTER MIDNIGHT 1	80	0	0	0	0	120	160	160	80	0
2	200	0	0	0	0	40	80	160	0	0
3	80	40	0	0	0	0	160	280	280	0
4	40	40	0	0	0	0	0	120	160	40
SUNRISE 1	120	0	0	0	0	240	80	120	40	0
2	40	0	0	0	0	0	0	80	0	0
3	0	0	0	0	0	0	0	120	0	0
4	0	0	0	0	0	0	0	0	0	0

Table VII-99. Length-frequency information for Genyonemus lineatus from offshore tows, 30-31 July 1979.

NUMBER OF INDIVIDUALS/1000 M<sup>2</sup>\*3

NET TYPE REPLICATE	T-1										T-2									
	SIZE CLASS (MM.)										SIZE CLASS (MM.)									
	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30
MANTA 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MANTA 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MANTA 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MANTA 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BONGO 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BONGO 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BONGO 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BONGO 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ALRIGA 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ALRIGA 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ALRIGA 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ALRIGA 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

NET TYPE REPLICATE	C-1										C-2									
	SIZE CLASS (MM.)										SIZE CLASS (MM.)									
	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30
MANTA 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MANTA 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MANTA 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MANTA 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BONGO 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BONGO 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BONGO 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BONGO 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AURIGA 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AURIGA 2	0	0	0	0	37	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AURIGA 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AURIGA 4	0	0	0	0	0	0	42	0	0	0	0	0	0	0	0	0	0	0	0	0

Table VII-100. Length-frequency information for Genyonemus lineatus  
from intake samples, 30-31 July 1979.

REPLICATE	INTAKE NUMBER OF INDIVIDUALS/1000 M**3									
	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30
MORNING 1	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0
AFTERNOON 1	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0
SUNSET 1	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0
BEFORE MIDNIGHT 1	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0
AFTER MIDNIGHT 1	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0
SUNRISE 1	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0

Table VII-101. Length-frequency information for Seriphus politus from offshore tows, 30-31 July 1979.

		NUMBER OF INDIVIDUALS/1000 ***3																		
NET TYPE REPLICATE		T-1									T-2									
		SIZE CLASS (MM.)									SIZE CLASS (MM.)									
		0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27
MANTA	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2	34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BCNGO	1	0	157	0	0	0	0	0	0	0	0	38	0	0	0	0	0	0	0	0
	2	0	89	0	0	0	0	0	0	0	18	0	0	0	0	0	0	0	0	0
	3	0	236	20	20	0	0	0	0	0	0	19	0	0	0	0	0	0	0	0
	4	0	0	0	0	0	0	0	0	0	0	20	0	0	0	0	0	0	0	0
AURIGA	1	0	2778	4404	678	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2	0	5179	3622	474	0	0	0	0	0	0	112	0	0	0	0	0	0	0	0
	3	0	1450	3572	920	0	0	0	0	0	0	35	0	0	0	0	0	0	0	0
	4	0	1755	936	819	0	0	39	39	0	0	0	0	0	0	0	0	0	0	0
-----																				
NET TYPE REPLICATE		C-1									C-2									
		SIZE CLASS (MM.)									SIZE CLASS (MM.)									
		0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27
MANTA	1	0	0	0	0	0	0	0	0	0	34	69	0	0	0	0	0	0	0	0
	2	0	0	0	0	0	0	0	0	0	149	0	0	0	0	0	0	0	0	0
	3	0	80	0	0	0	0	0	0	0	74	0	0	0	0	0	0	0	0	0
	4	0	0	0	0	0	0	0	0	0	38	0	0	0	0	0	0	0	0	0
BCNGO	1	0	0	79	0	0	0	0	0	0	18	54	18	0	0	0	0	0	0	0
	2	20	39	39	0	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3	108	90	233	18	0	0	0	0	0	19	0	0	0	0	0	0	0	0	0
	4	57	0	0	0	0	0	0	0	0	20	40	0	0	0	0	0	0	0	0
AURIGA	1	0	2096	4230	466	0	0	0	39	0	0	0	0	0	0	0	0	0	0	0
	2	7399	7658	11616	925	37	0	0	0	0	0	0	38	0	0	0	0	0	0	0
	3	0	17588	20689	981	118	39	0	0	0	0	0	0	0	0	0	0	0	0	0
	4	0	794	1504	292	42	0	84	84	0	0	38	0	0	0	0	0	0	0	0

Table VII-102. Length-frequency information for Seriphus politus from intake samples, 30-31 July 1979.

REPLICATE	INTAKE NUMBER OF INDIVIDUALS/1000 M**3									
	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30
MORNING 1	0	0	40	0	0	0	0	0	0	0
2	0	40	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0
AFTERNOON 1	0	40	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0
SUNSET 1	0	40	40	40	0	0	0	0	0	0
2	0	80	160	0	0	0	0	0	0	0
3	0	40	80	0	40	0	0	0	0	0
4	0	80	80	0	0	0	0	0	0	0
BEFORE MIDNIGHT 1	0	600	400	0	0	0	0	0	0	0
2	0	440	280	0	0	0	0	0	0	0
3	0	120	80	0	0	0	0	0	0	0
4	0	240	40	0	0	0	0	0	0	0
AFTER MIDNIGHT 1	0	120	160	40	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0
3	0	200	0	0	0	0	0	0	0	0
4	0	480	240	0	0	0	0	0	0	0
SUNRISE 1	0	80	40	40	0	0	0	0	0	0
2	0	0	80	40	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0

### VIII. ICHTHYOPLANKTON TEMPERATURE DATA

Profiles of temperature were recorded at each offshore transect from March 1978 through July 1979, in order to relate observed ichthyoplankton distributions to water column physical structure.

#### SAMPLING METHODS

Temperature was measured using a Martek Mark VI Water Quality Profiler. Profiles were measured at the midpoint of each offshore transect between collection of the second and third replicate at each station.

#### RESULTS

All physical data are presented in Volume I Oceanography (80-RD-10). Profile data is presented in graphical form for all four transects during each month. Time (PST) of the profile measurement is also presented.