

SECOND QUARTERLY PROGRESS REPORT
CRYSTAL RIVER STUDIES
JANUARY 3, 1984

Contractor

Stone & Webster Engineering Corporation

Subcontractor

Mote Marine Laboratory

Prepared for
Florida Power Corporation
P.O. Box 14042
St. Petersburg, FL 33733

B4-14498-48A

8401240212 840119
PDR ADDCK 05000302
R PDR

TABLE OF CONTENTS

- 1.0 INTRODUCTION
- 2.0 PROGRAM MODIFICATIONS
- 3.0 SUMMARY OF PROGRESS
 - 3.1 FIELD COLLECTIONS
 - 3.2 LABORATORY ANALYSES
 - 3.3 DATA COMPUTERIZATION
 - 3.3.1 Input
 - 3.3.2 Processing
 - 3.4 PHYSICAL MODELING
- 4.0 DATA TABLES
 - 4.1 INTRODUCTION
 - 4.2 BENTHOS
 - 4.3 IMPINGEMENT AND ENTRAINMENT
 - 4.4 FISHERIES
 - 4.5 PHYSICAL DATA

1.0 INTRODUCTION

In response to the requirements of Part III-H, NPDES Permit No. FL0000159 dated July 9, 1979 for Crystal River Units 1, 2, and Florida Power Corporation prepared an ecological monitoring program for the area adjacent to the Crystal River power plant site. The ecological monitoring program is designed to address the objectives of a 316 demonstration as set forth in: Interagency 316(a) Technical Guidance Manual and Guide for Thermal Effects Sections of Nuclear Power Facilities Environmental Impact Statements" and "Guidance for Evaluating the Adverse Impact of Cooling Water Intake Structures on the Aquatic Environment: Section 316(b) P.L. 92-500."

Comparisons of data (control versus effected areas) will be made within the proposed study and with previous studies, where appropriate. The coastal area west of the power plant is characterized by salt marsh dominated by Juncus roemarianus with narrow bands of Spartina alterniflora near the water's edge. The bottom in the adjacent coastal marine area is comprised of sand, mud, shell hash (oyster bars), and exposed lime rock with scattered patches of seagrass, attached benthic algae, and attached benthic invertebrates.

The sampling program was designed primarily to address the following impacts:

1. Thermal impacts from the operation of the power plant (316 (a)).
2. Intake effects in the form of larval entrainment and adult impingement (316 (b)).

Other elements of the program relate to the distribution and movement of surface sediments in the discharge area and to the effects of spoil banks along the intake canal on blue crab migration.

The Crystal River monitoring program is summarized in Table 1-1. This table indicates the types of sampling, number of sampling stations, number of replicates, frequency of sampling, total number of samples, and the overall duration of sampling. Each element of the program falls under one of four major headings: Benthos, Impingement and Entrainment, Fisheries, and Physical Studies.

TABLE 1-1

SUMMARY OF ECOLOGICAL PROGRAM
CRYSTAL RIVER STUDIES

<u>Study Component</u>	<u>No. of Stations</u>	<u>No. of Rep.</u>	<u>Frequency</u>	<u>Total No. Samples</u>	<u>Study Period</u>
I. Benthos					
A. Benthic core	20	6(+2)	Quarterly	600	15 mos
	20	6(+2)	6 wks	1200	15 mos
B. Macrophyte mapping	50	10	Quarterly + 1 Preliminary	3000	15 mos
	9(intens.)	10	6 wks	900	15 mos
	9(intens.)	5	6 wks	450	15 mos
	9(intens.)	3	6 wks	270	15 mos
C. Aerial photographs	1	1	3 times	3	15 mos
D. Oyster reef	9	90	Monthly & Bimonthly	14580	12 mos
E. Salt marsh program	8	24	6 wks	1920	15 mos
F. Physical					
a. Chlorophyll 'a'	8	2 depths	Weekly	1040	15 mos
b. Sediment	40	3	Quarterly	1200	15 mos
c. Photometry	40	1 profile	Weekly	2600	15 mos
d. Turbidity, D.O., pH, Salinity, Temperature	40	multiple depth	Weekly	5200	15 mos
e. Sediment Temp- erature, Eh	40	1 depth	Quarterly	200	15 mos
	20	1 depth	6 wks	200	15 mos

TABLE 1-1 (Cont)

<u>Study Component</u>	<u>No. of Stations</u>	<u>No. of Rep.</u>	<u>Frequency</u>	<u>Total No. Samples</u>	<u>Study Period</u>
II. Impingement and Entrainment					
A. Impingement	3	4	Weekly + 3 times	660	12 mos
B. Entrainment	15	3	Biweekly day/night	2880	15 mos
III. Fisheries					
A. Trawl	9	7	Monthly (night)	756	12 mos
B. Seines	4	2	Monthly	96	12 mos
C. Drop net	2	2	Monthly	48	12 mos
D. Creek trawls	4	7	Monthly (day)	336	12 mos
E. Crab traps	120	1	17 times	2040	4 mos
F. Crab impingement	1	1	17 times	17	4 mos
IV. Physical Studies					
A. Suspended loads	40	4 analyses	Biweekly	5120	15 mos
B. Bathymetry	-	-	-	1 survey	-
C. Short-term	16	1	-	Variable	2 mos
D. Long-Term	51	1 or 2	Continuous	Variable	12 mos
E. Meteorology	1	1	Continuous	Variable	15 mos
F. Temperature profiles	Variable	2	Variable	Variable	2 mos

2.0 PROGRAM MODIFICATIONS

Every effort has been made to conduct the Crystal River study as previously planned and approved by agency personnel. At the same time, it is understood that assumptions were made during the planning process concerning conditions which would be encountered and the appropriate sampling methods to be used at the site. The results of initial sampling and other experience gained at Crystal River have been used to evaluate these assumptions. Changes made in the program during the first quarter were summarized in the First Quarterly Report and discussed during the progress meeting held on October 27, 1983. No major changes to the planned program were made in the second quarter, however, entrainment Station L (grassbed) was moved southwest as of October 24. This was necessitated by the disappearance of the grassbed being sampled. Since this particular station is intended to sample plankton associated with a grassbed, remaining in the original location would not have provided a suitable sample. A search of the discharge area was made, and the closest available grassbed was identified just northeast of Benthos Station 30. The station, shown on Figure 2-1, continues to be sampled at this time.

The crab tagging effort was initiated during this quarter as planned, in accordance with the previously defined methodology. Tagging continues through December.



3.0 SUMMARY OF PROGRESS

3.1 FIELD COLLECTIONS

All field collections were made according to schedule. No major problems were encountered. A summary of the field collections made during the first two quarters is shown in Table 3-1.

3.2 LABORATORY ANALYSES

Laboratory analyses of samples collected in the various components of the program are progressing smoothly. As expected, meroplankton (entrainment) samples were heavy during the spawning season and, therefore, laboratory analysis is lagging well behind the field collections. However, we expect to be caught up before March 1984 (during winter). Analysis of benthos samples currently lags by several weeks, but all other components are progressing according to schedule. A summary of the status of laboratory analysis is shown in Table 3-2.

3.3 DATA COMPUTERIZATION

3.3.1 Input

Data have been entered (to date) for the following samples:

- a. Benthic core samples from the June, July and September samplings.
- b. Oyster reef samples from the July, August, September and October samplings.
- c. Salt marsh samples from the June, July and September samplings.
- d. Macrophyte samples from the June, July, August and September samplings.
- e. Photometry, temperature, salinity, and pH measurements from June through November.
- f. Turbidity and chlorophyll "a" samples through the third week in November.
- g. Impingement samples from June through November.
- h. Entrainment samples from the weeks of June 20 and July 4.
- i. Fisheries samples from June through November.
- j. Suspended solids samples through the third week in November.
- k. Crab tagging data from September through November.

3.3.2 Processing

Data files are received by SWEC on diskettes, logged in, and read into the SWEC computer. Data sets have been received for all program elements for which data were collected in the first or second quarters. Because laboratory analysis lags field collection, data for some elements are not yet complete. Two entrainment samplings are represented as are three benthic core collections, including both quarterly collections (40 stations). Salt marsh specimens from collections in October are not processed until December so no data are yet available. The oyster reef data from November is not complete, and information on turbidity and chlorophyll "a" samples taken in the last week of November has not yet been computerized.

The data files received by SWEC were checked for completeness and accuracy with the aid of a computerized summary and variable range review. Where necessary, corrections are made and the data are then incorporated into the verified data file. Summary data tables are generated from this file.

3.4 PHYSICAL MODELING

The primary objectives met in the second quarter have been to complete modifications to the finite element models and to prepare the August 1983 survey data for use in model calibration.

Modifications to better simulate the hydrodynamic behavior near oyster bars are complete. The more rigorous option cited in the first quarterly report was successfully implemented. In this option, each side of an oyster bar is bounded by the side of an element, but the elements are not in direct communications with one another in the manner exhibited by adjacent open-water elements. The exchange of both water volumes and properties is performed by a separate equation, which describes flow through subgrid-sized openings and overtopping as a function of tide elevations on each side of the oyster bar. This representation allows the likely occurrence of different longitudinal currents on each side of the oyster bar to be simulated.

Successful trial runs have been made with the tidal circulation model, CAFE, using the site geometry. Both coarse and fine grid element networks have been constructed in order to ensure that the models can successfully resolve the details of the far field thermal plume. The coarse grid simulates the entire modeling region; the fine grid is inset into the region nearest the point of discharge. Realistic results have been obtained, and calibration of the tidal circulation model will begin in the third quarter.

The data from the insitu current meters and tide height are critical to the calibration. The data recovered at each station is shown in Section 4.5; the location of each station is shown on Figure 3-1.

Insitu data is recorded every 2 or 3 minutes for the month of August. Data processing must be performed by computer. Programs have been written to:

- (a) Scan the data files, search for key parameters recorded by the meters, and enter data missing codes where short records are

encountered. A clean data file is produced and an accounting of the condition of the original data is displayed on the output pages.

- (b) Prepare a plot file by finding the mean of the data for a selected interval of time (say 15 to 30 minutes). Extraneous data points are ignored by requiring the data to be averaged to be within a reasonable range from the median value. Only when at least 5 good points are detected within the interval will a value be plotted.

- (c) Plot the data with an existing program.

The first plots are now emerging, but are considered premature for presentation at this time.

TABLE 3-1
FIRST AND SECOND QUARTERS FIELD COLLECTIONS
CRYSTAL RIVER STUDIES

Task	Collection Dates	No. of Stations Sampled	No. of Samples Collected	Comments
I.A. Benthic Core	6/13-14/83	40	320	No problems
	7/25/83	20	160	No problems
	9/7-8/83	40	320	No problems
	10/13/83	20	160	No problems
	11/22-23/83	40	320	No problems
I.B. Oyster Reef				
1. Oysters	7/11-15/83	9	5,670	Deployed
	8/8-9/83	9	810	Deployed
	8/8-9/83	9	810	Retrieved
	9/15-16/83	9	810	Deployed
	9/15-16/83	9	1,620	Retrieved
	10/11-12/83	9	810	Deployed
	10/11-12/83	9	810	Retrieved
	11/8-9/83	9	810	Deployed
	11/8-9/83	9	1,620	Retrieved
2. Associated Fauna	8/8-9/83	9	27	Collected
	9/15-16/83	9	27	Collected
	10/11-12/83	9	27	Collected
	11/8-9/83	9	27	Collected
I.C. Salt Marsh	6/13-17/83	8	192	No problems
	7/24-29/83	8	192	No problems
	9/8-14/83	8	192	No problems
	10/24-28/83	8	192	No problems
I.D. Macrophytes				
1. Ground truthing	6/20-24/83	50	500	No problems
	9/14-16/83	50	500	No problems
2. Intensive monitoring (Clips)	6/27-30/83	8	40	Unable to find 3 seagrassbed stations in thermal area.
	8/1-5/83	9	45	No problems
	9/14-16/83	9	45	No problems
	10/25-26/83	9	45	No problems
3. Intensive monitoring (Quadrats)	6/20-24/83	8	80	Unable to find 3 stations in thermal area.
	8/1-5/83	9	90	No problems
	9/14-16/83	9	90	No problems
	10/25-26/83	9	90	No problems

CRYSTAL RIVER STUDIES (Cont'd)

Task	Collection Dates	No. of Stations Sampled	No. of Samples Collected	Comments
4. Seagrass growth	6/27-30/83	8	24	Clipped
	7/11-15/83	8	24	Retrieved
	8/1-5/83	9	27	Clipped
	8/15-19/83	8	24	Retrieved
				(1 sta. lost)
	9/14-16/83	9	27	Clipped
	9/29/83	9	27	Retrieved
	10/25-26/83	9	27	Clipped
	11/8-10/83	9	27	Retrieved
I.E. Aerial Photography	8/27/83	1	1	No photography during May-July because of ground haze
	10/26-27/83	1	1	No problems
I.F. Photometry				
1. Light, temp., sal., pH	6/09/93	40	-	Light window not met
	6/15/83	40	-	Window not met
	6/22/83	40	-	Window met
	6/30/83	40	-	Window met
	7/07/83	40	-	Window met
	7/12/83	40	-	Window met
	7/20/83	40	-	Window met
	7/26/83	40	-	Window met
	8/03/83	40	-	Window met
	8/10/83	40	-	Window met
	8/11/83	40	-	Window met
	8/24/83	40	-	Window met
	8/30/83	40	-	Window met
	9/06/83	40	-	Window met
	9/12/83	40	-	Window met
	9/19/83	40	-	Window met
	9/27/83	40	-	T-S window met except at 7 sta. (too shallow)
	10/05/83	40	-	Window met
	10/10/83	40	-	9 sta. out of T-C window (low tide)
	10/18/83	40	-	1 sta. out of T-C window
	10/26/83	40	-	6 sta. out of T-C window (low tide) no light data for Sta. 1-10.
	11/02/83	40	-	Window met
	11/09/83	40	-	9 sta. out of T-C window

CRYSTAL RIVER STUDIES (Cont'd)

Task	Collection Dates	No. of Stations Sampled	No. of Samples Collected	Comments
	11/16/83	40	-	(low-tide) Window met
	11/21/83	40	-	3 sta. out of T-C window (low-tide)
2. Turbidity	6/09/83	40	73	No problems
	6/15/83	40	73	No problems
	6/22/83	40	78	No problems
	6/30/83	40	71	No problems
	7/07/83	40	78	No problems
	7/12/83	40	74	No problems
	7/20/83	40	81	No problems
	7/26/83	40	76	No problems
	8/03/83	40	77	No problems
	8/10/83	40	75	No problems
	8/19/83	40	85	No problems
	8/24/83	40	93	No problems
	8/30/83	40	66	No problems
	9/06/83	40	74	No problems
	9/12/83	40	67	No problems
	9/19/83	40	79	No problems
	9/27/83	40	61	No problems
	10/05/83	40	77	No problems
	10/10/83	40	62	No problems
	10/18/83	40	78	No problems
	10/26/83	40	59	No problems
	11/02/83	40	77	1 Lost in transit
	11/09/83	40	67	No problems
	11/16/83	40	76	No problems
	11/21/83	40	67	No problems
3. Chlorophyll 'a'	6/09/83	8	15	No problems
	6/15/83	8	17	No problems
	6/22/83	8	16	No problems
	6/30/83	8	15	No problems
	7/07/83	8	15	No problems
	7/12/83	8	16	No problems
	7/20/83	8	15	No problems
	7/26/83	8	17	No problems
	8/03/83	8	15	No problems
	8/10/83	8	16	No problems
	8/19/83	8	20	No problems
	8/24/83	8	14	No problems
	8/30/83	8	16	No problems
	9/06/83	5.5	11	3 samples lost
	9/12/83	10	17	No problems
	9/19/83	8	16	No problems
	9/27/83	8	12	No problems

CRYSTAL RIVER STUDIES (Cont'd)

Task	Collection Dates	No. of Stations Sampled	No. of Samples Collected	Comments
	10/05/83	7	13	Tech. error 1 sta. missed
	10/10/83	9	15	No problems
	10/18/83	8	15	No problems
	10/26/83	8	11	No problems
	11/02/83	8	16	No problems
	11/09/83	8	13	No problems
	11/16/83	8	15	No problems
	11/21/83	8	14	No problems
I.G. Sediments				
1. TOC & granulometry	6/13-17/83	40	120	No problems
	9/5-9/83	40	120	No problems
	11/22-23/83	40	120	No problems
2. Sulfides	6/13-21/83	40	120	No problems
	8/29-9/2/83	40	120	No problems
	11/14-18/83	40	120	No problems
3. Temp., Eh	6/13-14/83	40	40	No problems
	7/25/83	20	20	No problems
	9/7-8/83	40	40	No problems
	10/13/83	20	20	No problems
	11/22-23/83	40	40	No problems
II.A. Impingement				
*Crabs collected held, tagged, and released	6/6-7/83	2	8	No problems
	6/13-14/83	2	8	No problems
	6/23-24/83	1	4	Basket broke
	7/1-2/83	2	8	No problems
	7/5-6/83	2	8	No problems
	7/14-15/83	2	8	No problems
	7/19-20/83	3	10	Basket broke
	7/25-26/83	3	12	No problems
	8/4-5/83	3	12	No problems
	8/9-10/83	3	10	Operator error
	8/15-16/83	3	12	No problems
	8/25-26/83	3	12	No problems
	9/1-2/83	3	12	No problems
	*9/7-8/83	3	12	No problems
	*9/17-18/83	3	12	No problems
	*9/21-22/83	2	8	No problems
	*9/28-29/83	2	8	No problems
	*10/3-4/83	3	12	No problems
	*10/11-12/83	3	12	No problems
	*10/21-22/83	2	8	No problems
	*10/24-25/83	3	12	No problems
	*11/2-3/83	3	11	Unit 1 offline 0300
	*11/12-13/83	3	7	Operator error
	*11/17-18/83	3	11	Basket broke Unit 2 0300
	*11/23-24/83	3	12	No problems

CRYSTAL RIVER STUDIES (Cont'd)

Task	Collection Dates	No. of Stations Sampled	No. of Samples Collected	Comments	
Impingement (3 mm)	7/01/83	2	2	No problems	
	7/25/83	3	3	No problems	
	8/26/83	3	3	No problems	
	9/28/83	2	2	No problems	
	10/24-25/83	3	3	No problems	
	11/23-24/83	3	3	No problems	
II.B. Entrainment	6/23-25/83	15	120	No problems	
	7/6-8/83	15	120	No problems	
	7/21-22/83	15	120	No problems	
	8/1-2/83	15	120	No problems	
	8/15-17/83	15	120	No problems	
	8/31-9/1/83	15	120	No problems	
	9/14-15/83	15	120	No problems	
	9/27-29/83	15	120	No problems	
	10/11-13/83	15	120	No problems	
	10/24-28/83	15	120	Sta. L. re-located (grass-bed)	
	11/8-10/83	15	120	No problems	
	11/21-23/83	15	120	No problems	
III. Fisheries	1. Trawl	6/27-30/83	9	63	No problems
		7/26-27/83	9	63	No problems
		8/23-24/83	9	63	No problems
		9/19-20/83	9	63	No problems
		10/17-18/83	9	63	No problems
		11/14-15/83	9	63	No problems
	2. Seines	6/28-7/7/83	4	8	No problems
		7/26-28/83	4	8	No problems
		8/22-23/83	4	8	No problems
		9/21-22/83	4	8	No problems
		10/18-19/83	4	8	No problems
		11/15-17/83	4	8	No problems
	3. Drop net	7/5-6/83	2	4	No problems
		7/27-28/83	2	4	No problems
		8/22-23/83	2	4	No problems
		9/22-23/83	2	4	No problems
		10/18-19/83	2	4	No problems
		11/15-17/83	2	4	No problems
	4. Creek trawls	7/26-27/83	4	28	No problems
		8/22-24/83	4	28	No problems
		9/21-22/83	4	28	No problems
		10/18-19/83	4	28	No problems
		11/15-16/83	4	28	No problems

CRYSTAL RIVER STUDIES (Cont'd)

Task	Collection Dates	No. of Stations Sampled	No. of Samples Collected	Comments
5. Crab tagging	9/5-6/83	24	120	Deployed
	9/12-13/83	24	115/120	91 tagged
	9/19-20/83	24	118/120	88 tagged
	9/26-27/83	24	116/120	102 tagged
	10/3-4/83	24	120/120	95 tagged
	10/10-11/83	24	120/120	119 tagged
	10/17-18/83	24	119/120	120 tagged
	10/24-25/83	24	118/120	151 tagged
	10/31-11/83	24	120/120	91 tagged
	11/7-8/83	24	120/120	211 tagged
	11/14-15/83	24	120/120	353 tagged
	11/21-22/83	24	120/120	642 tagged
	11/28-30/83	24	120/120	576 tagged
IV.A.1. Bathymetry	6/6-7/83	1 survey	--	Weather problems
	6/13-14/83	1 survey	--	Half complete
	6/28-30/83	1 survey	--	All complete
	11/21/83	1 survey	--	3 transects
IV.A.2. Short Term				
1. Tide Gauges	8/1-30/83	16	16	75% data recovery
2. Current Meters	8/1-30/83	16	16	95% data recovery
3. Vertical profiles	8/1-30/83	64	64	No problems
4. Stream cross-sections	8/1-30/83	4	4	No problems
IV.A.3. Long Term	6/6-10/83	51	72	Deployed
	7/4-8/83	49	69	Retrieved (3 lost)
	7/4-8/83	51	72	Deployed
	8/1-5/83	43	60	Retrieved (12 lost)
	8/1-5-83	43	60	Deployed
	8/8-12/83	5	7	Deployed
	8/15-16/83	3	5	Deployed
	9/1-2/83	39	57	Retrieved (15 lost)
	9/1-2/83	39	57	Deployed
	9/5-9/83	12	15	Deployed
	9/25-30/83	44	58	Retrieved
	9/26-30/83	51	72	Deployed
	10/10-11/83	49	69	3 thermographs lost; mid-month check
	10/10-11/83	51	72	Deployed
	10/24-26/83	47	66	Retrieved
	10/24-26/83	51	72	Deployed

CRYSTAL RIVER STUDIES (Cont'd)

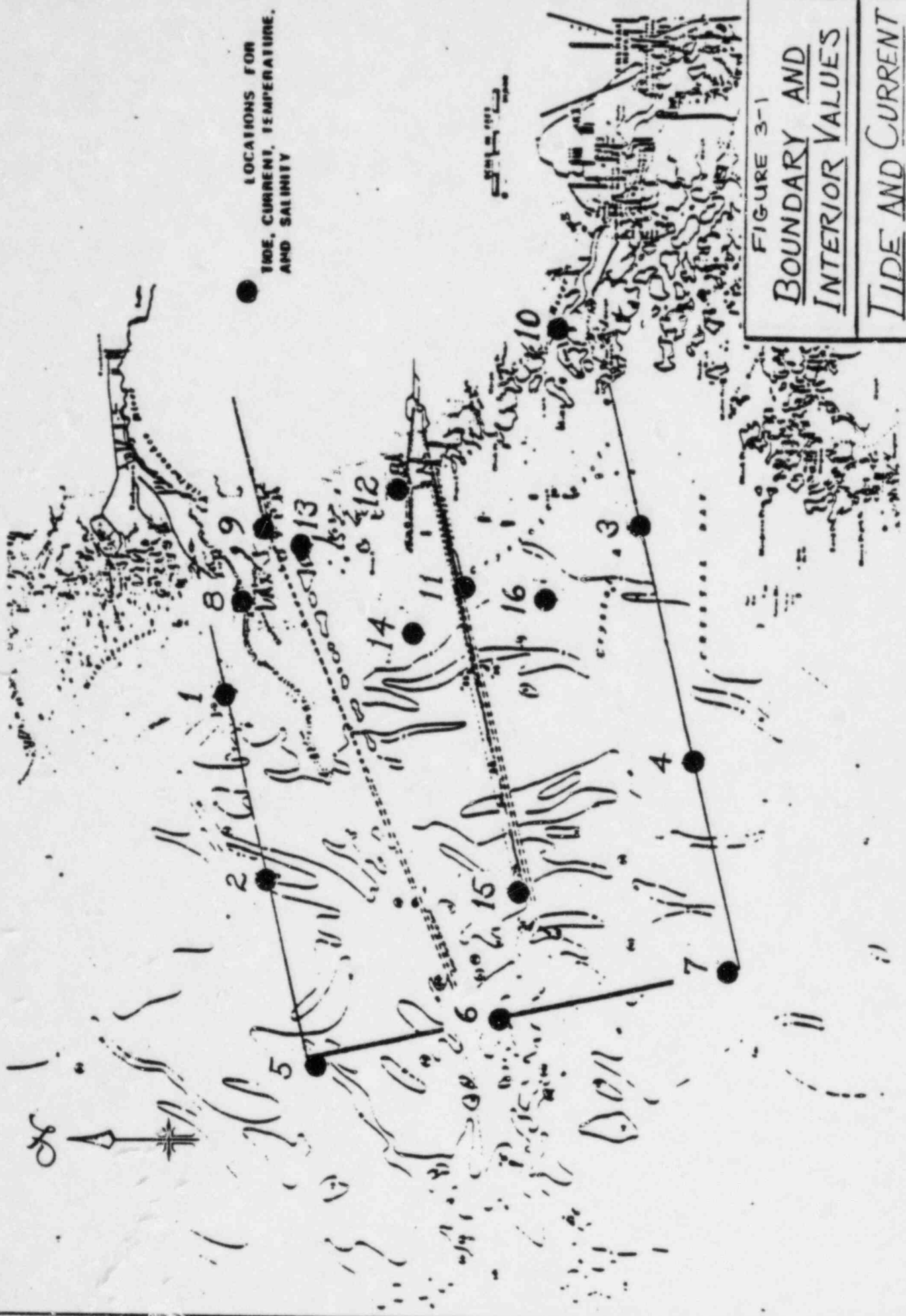
Task	Collection Dates	No. of Stations Sampled	No. of Samples Collected	Comments
	11/28-30/83	49	70	Retrieved
	11/28-30/83	51	72	Deployed
IV.B. Suspended Load	6/09/83	40	74	No problems
	6/22/83	40	79	No problems
	7/07/83	40	80	No problems
	7/20/83	40	83	No problems
	8/03/83	40	77	No problems
	8/19/83	40	85	No problems
	8/30/83	40	70	No problems
	9/12/83	40	68	No problems
	9/27/83	40	61	No problems
	10/10/83	40	62	No problems
	10/26/83	40	59	No problems
	11/09/83	40	67	No problems
	11/21/83	40	67	No problems

IV.C. Meteorology

Station fully operational except for the period 8/5-25/83 when lightning struck and damaged the system.

TABLE 3-2
STATUS OF LABORATORY ANALYSES TO DATE (12-02-83)
CRYSTAL RIVER STUDIES

Task	Samples Collected to Date	Samples to be Analyzed	Samples Analyzed to Date	Comments
I.A. Benthic Core				
1. Rough sorting	1,280	960	698	No problems
2. Identifications	1,280	960	636	No problems
I.B. Oyster Reef				
1. Oysters	8,910	8,910	8,910	No problems
2. Associated fauna	108	108	54	(clumps)
I.C. Salt Marsh	768	768	576	No problems
I.D. Macrophytes				
1. Ground truthing	1,000	1,000	1,000	No problems
2. Intensive monitoring	175	175	175	No problems
3. Seagrass growth	102	102	102	No problems
I.F. Photometry				
1. Turbidity	1,844	1,844	1,844	No problems
2. Chlorophyll 'a'	375	375	375	No problems
I.G. Sediments				
1. TOC & granulometry	360	360	240	No problems
2. Sulfides	360	360	360	No problems
II.A. Impingement				
1. Regular	249	249	249	No problems
2. 3 mm	16	16	16	No problems
II.B. Entrainment	1,440	1,080	337	No problems
III. Fisheries				
1. Trawl	378	378	378	No problems
2. Seines	48	48	48	No problems
3. Drop net	42	24	24	No problems
4. Creek trawls	140	140	140	No problems
IV.B. Suspended Solids				
1. TSS	932	932	932	No problems
2. VSS	932	932	932	No problems



4.0 DATA TABLES

4.1 INTRODUCTION

Summary data tables for the first two quarters of the program are displayed in subsequent sections. These are meant to provide summaries of all significant program elements rather than to display all data collected. Data manipulation is minimal to permit examination of basic information.

4.2 BENTHOS

BENTHOS ABUNDANCE BY STATION AND SPECIES

NUMBER PER SQUARE METER
JUNE 1983

SPECIES NAME	1	2	3	4	5	6	7	8	9	10
HYDROZOA SP.	0	11	43	0	11	32	0	0	0	0
ACTINARIA SP.	11	0	0	0	0	0	0	0	0	0
ATHENARIA	0	0	0	0	0	0	0	0	11	0
THENARIA SP.	0	0	0	0	0	0	0	0	0	11
STYLOCHUS SP.	11	53	43	21	0	0	11	0	43	21
EUPLANA GRACILIS	11	0	0	0	0	0	0	0	0	0
NEMERTINA SP. = RHYNCHOCOELA	32	128	480	21	21	64	32	43	107	181
NEMATODA	0	0	21	0	0	0	0	0	64	0
POLYNOID GENUS D	0	0	0	0	0	0	0	0	0	0
POLYNOID GENUS B	0	0	0	0	0	0	0	11	0	43
PHYLLODOCE CASTANEA	0	0	0	0	0	0	0	11	0	21
PHYLLODOCE ARENAE	0	0	53	0	11	0	0	0	0	0
ETEONE HETEROPODA	21	43	43	0	0	0	11	0	43	43
ETEONE LACTEA	11	11	0	21	0	53	53	0	0	0
EULALIA SANGUINEA	0	0	107	0	0	0	0	0	0	0
GYPTIS BREVIPALPA	0	0	11	0	0	0	0	0	0	11
PARAHESIONE LUTEOLA	0	0	0	0	0	11	32	0	11	0
ANCISTROSYLLIS CF. JONESI	0	0	0	0	0	0	0	0	0	0
PARANDALIA AMERICANA	0	0	0	0	0	0	0	0	0	0
EXOGENE DISPAR	53	0	0	21	64	32	0	0	11	0
EXOGENE LOUREI	0	0	117	0	0	0	0	0	117	11
SPHAEROSYLLIS SPP.	0	0	85	0	0	0	0	0	64	0
SPHAEROSYLLIS TAYLORI	0	0	139	0	0	0	0	0	0	0
BRANIS SP. A	0	0	64	11	11	0	0	0	21	0
EHLERSIA CORNUTA	0	0	32	0	0	0	0	0	0	0
STREPTOSYLLIS PETTIBONEAE	0	0	181	0	0	0	0	0	0	0
PARAPIONOSYLLIS LONGICIRRATA	0	0	0	0	0	21	0	0	11	0
NEANTHES SUCCINEA	11	85	107	0	0	0	0	0	0	0
LAFONEREIS CULVERI	75	85	224	0	0	128	11	0	43	0
NEPHTHYS PICTA	0	0	0	0	0	0	0	0	21	0
NEPHTHYS SIMONI	0	0	0	0	0	0	11	0	0	0
GLYCERA AMERICANA	0	0	0	0	0	0	0	0	0	43
GONIADIDAE	0	11	0	0	0	0	0	0	0	0
GLYCINDE NORDMANNI	0	0	11	0	0	0	0	0	0	0
GLYCINDE SOLITARIA	0	11	0	0	0	0	11	21	0	0
KINBERGONUPHIS SIMONI	0	0	0	0	11	0	0	0	0	0
MARPHISA SANGUINEA	0	277	85	0	0	11	43	0	11	11
LUMBRINERIS VERRILLI	0	0	0	11	0	11	0	0	43	0
LUMBRINERIS SP. D	11	0	245	11	0	32	75	1	544	565
LUMBRINERIS LATREILLI	0	11	0	0	0	0	0	0	0	0
DRILONEREIS LONGA	0	0	11	0	0	0	11	0	0	0
ARABELLA MUTANS	0	0	11	0	0	0	0	0	0	0
HAPLOSCOPLOPS FOLIOSUS	512	75	11	0	0	0	0	0	0	0
HAPLOSCOPLOPS FRAGILIS	0	0	21	53	11	0	277	11	11	0
HAPLOSCOPLOPS SP.	0	0	0	96	128	11	0	235	0	0
SCOLOPLOS RUBRA	0	149	0	11	0	85	139	11	43	0
ORBINIA RISERII	0	0	21	0	0	0	0	0	0	0
ARICIDEA PHILBINAE	0	0	0	0	0	0	0	0	0	0
ARICIDEA TAYLORI	11	501	21	853	1003	2080	213	203	0	21
ARICIDEA CF. CATHERINAE	11	736	53	32	43	43	363	85	128	64
CIRROPHORUS LYRA	0	0	0	0	0	0	0	0	64	128
POLYDORA LIGNI	0	0	139	0	0	0	0	0	53	21
POLYDORA WEBSTERI	0	0	11	0	0	21	0	0	0	0

BENTHOS ABUNDANCE BY STATION AND SPECIES

NUMBER PER SQUARE METER
JUNE 1983

SPECIES NAME	1	2	3	4	5	6	7	8	9	10
PRIONOSPION CRISTATA	0	0	0	0	0	0	11	0	0	0
SPIOPHANES BOMBYX	0	21	139	0	0	0	0	0	11	11
PSEUDOPOLYDORA SP. A	0	11	0	0	0	0	0	0	0	21
PARAPIONOSPION PINNATA	0	96	0	0	0	0	0	0	43	128
STREBLOSPION BENEDICTI	75	0	0	363	1429	171	107	203	0	21
APOPRIONOSPION PYGMAEA	0	0	32	0	0	0	0	363	0	11
SCOLELEPIS TEXANA	0	11	11	0	0	0	0	0	11	0
SCOLELEPIS SCUMAMATA	0	0	0	0	0	11	11	32	0	0
MINUSPION CIRRIFERA	0	0	0	0	0	0	0	0	0	213
MAGELONA PETTIBONEAE	0	437	32	0	0	0	21	11	0	0
SPIOCHAETOPTERUS C. OCULATUS	0	53	0	0	11	0	0	53	11	117
CAULLERIELLA SP.	0	256	0	0	21	21	85	53	160	1877
THARYX ANNULOSUS	0	0	0	0	0	0	0	0	21	53
CHAETOZONE SP.	0	0	0	0	0	0	0	0	0	11
PIROMIS ROBERTI	0	0	0	0	0	0	0	0	0	0
CAPITELLA CAPITATA	0	11	21	213	427	213	21	43	11	0
HETEROMASTUS FILIFORMIS	331	21	0	0	0	0	0	0	0	0
NOTOMASTUS LATERICEUS	0	0	0	0	0	0	0	0	0	0
MEDIOMASTUS AMBIESETA	149	128	267	587	544	629	117	96	448	213
MEDIOMASTUS CALIFORNIENSIS	0	0	213	0	0	0	0	0	0	0
ASYCHIS ELONGATA	0	0	0	0	0	0	0	0	0	0
CLYMENELLA TORQUATA	0	0	0	0	0	0	21	0	0	0
MALDANE GLEBIFEX	0	0	0	0	0	0	0	0	11	0
AXIOHELLA SP. A	0	0	53	0	0	0	0	0	11	11
OWENIA FUSIFORMIS	0	11	0	0	0	0	0	0	0	0
MYRIOCHELE OCULATA	0	0	11	0	0	0	0	0	11	32
PECTINARIS GOULDII	0	21	0	0	0	0	0	0	299	2528
AMPHARETE PARVIDENTATA	0	0	0	43	0	11	0	0	0	0
AMPHICTEIS GUNNERI	21	0	0	11	11	11	0	0	0	0
TEREBELLIDAE UNID. SP.	0	0	11	0	0	0	0	0	0	0
PISTA CRISTATA	0	0	21	0	0	0	0	0	0	0
POLYCIRRUS SP.	0	0	11	0	0	0	0	0	0	0
SABELLIDAE	0	0	0	0	0	32	0	0	0	0
CHONE AMERICANA	0	0	0	0	0	0	0	0	0	0
FABRICIA SABELLA	0	21	85	0	0	0	32	0	53	0
BOGUEA ENIGMATICA	0	0	32	0	0	0	0	0	107	0
BOGUEA SP. A	0	0	0	0	0	0	0	0	117	11
OLIGOCHAETE	85	288	139	139	437	171	64	139	53	53
GASTROPODA SP.	0	11	0	0	0	0	0	0	0	0
SAYELLA FUSCA	43	0	0	11	0	11	0	0	0	0
SAYELLA HEMPHILLI	32	21	0	32	0	32	11	0	0	0
SOLARIORBIS SHIMMERI	0	0	0	0	0	21	0	0	11	0
CAECUM PULCHELLUM	0	0	85	0	0	395	11	0	0	0
DIASTOMA VARIUM	0	0	11	0	0	0	0	0	0	0
EPITONIUM SP.	0	0	0	0	0	0	0	0	0	0
STROMBIFORMIS HEMPHILLI	0	0	0	0	0	0	0	0	0	0
CREPIDULA CONVEXA	0	21	0	0	0	0	0	0	0	11
CREPIDULA SP.	0	32	0	0	0	0	11	0	0	0
CREPIDULA PLANA	0	0	1664	0	0	11	0	0	384	21
MITRELLA LUNATA	0	32	75	0	0	213	21	0	0	0
ANACHIS OBESA	0	0	21	0	0	0	0	0	11	11
NASSARIUS VIREX	0	0	11	11	0	0	0	0	0	11
OLIVELLA MUTICA	0	0	0	0	0	0	32	0	0	0

BENTHOS ABUNDANCE BY STATION AND SPECIES

NUMBER PER SQUARE METER
JUNE 1983

SPECIES NAME	1	2	3	4	STATION					
					5	6	7	8	9	10
TOTAL DENSITY	8533	10272	18485	11328	4885	6208	3840	2176	6187	9216
TOTAL NUMBER OF SPECIES	43	73	89	36	33	64	58	33	83	78

1 BFNTHOS ABUNDANCE BY STATION AND SPECIES

NUMBER PER SQUARE METER
JUNE 1983

SPECIES NAME	11	12	13	14	15	16	17	18	19	20
PORIFERA SP.	0	21	0	0	0	0	0	11	21	0
HYDROZOA SP.	11	43	64	11	0	21	11	0	0	0
ATHENARIA	11	11	0	0	21	11	0	0	0	0
THENARIA SP.	11	0	0	0	0	0	0	0	0	0
STYLOCHUS SP.	32	0	0	0	0	0	0	0	0	0
NEMERTINA SP. = RHYNCHOCOELA	267	75	160	53	160	160	139	75	107	85
NEMATODA	43	21	0	11	32	43	139	0	0	0
LEPIDONOTUS SUBLEVIS	0	11	0	0	0	0	0	0	0	0
POLYNOID GENUS D	32	0	0	0	0	0	0	0	0	0
STHENELAIS OBLIQUIS	0	11	0	0	0	0	0	0	0	0
PARAMPHINOME SP. B	11	0	0	0	0	0	0	0	0	0
PHYLLODOCIDAE SP.	0	0	0	0	0	0	0	0	11	0
PHYLLODOCE CASTANEA	21	0	0	0	0	0	0	0	0	0
PHYLLODOCE ARENAE	43	21	21	11	53	43	43	21	21	0
ETEONE HETEROPODA	0	0	139	85	21	0	171	32	11	21
EULALIA SANGUINEA	43	11	0	0	107	107	0	0	0	0
PARANAITIS SP. A	0	0	0	21	0	0	0	0	0	0
GYPTIS BREVIPALPA	21	0	0	0	0	21	0	11	0	11
GYPTIS VITTATA	0	0	0	0	11	0	0	0	0	0
SIGAMBRA TENTACULATA	0	0	11	0	0	0	0	0	0	0
PARANDALIA AMERICANA	0	0	11	11	0	0	0	0	0	0
PIONOSYLLIS SP.	0	11	0	0	0	0	0	0	0	11
EXOGONE DISPAR	21	32	0	0	64	0	0	0	0	0
EXOGONE LOUREI	0	21	0	0	21	32	0	0	0	0
SPHAEROSYLLIS TAYLORI	0	11	21	11	11	0	32	0	0	0
BRANIA CLAVATA	0	0	43	11	139	0	11	0	864	0
EHLERSIA CORNUTA	75	0	0	0	11	21	0	0	0	0
SYLLIDES FULVUS	0	0	0	0	0	0	0	0	0	0
PARAPIONOSYLLIS SP. B	11	0	0	0	0	0	0	0	0	0
BRANCHIOSYLLIS OCULATA	11	11	0	0	0	0	0	0	0	0
NEREIDAE SP.	11	11	0	0	0	0	0	0	0	0
CERATONEREIS IRRATABILIS	0	0	0	0	32	0	32	0	11	11
NEANTHES SUCCINEA	0	0	32	0	0	0	0	0	32	0
NEREIS FALSA	0	0	0	0	0	0	1696	160	11	0
LAONEREIS CULVERI	0	53	277	53	0	0	0	0	11	0
NEPHYTS SIMONI	11	11	0	0	0	0	0	0	0	0
GLYCERA AMERICANA	11	11	0	11	11	11	0	11	0	11
GLYCINDE SOLITARIA	0	32	0	0	0	11	11	0	0	0
GONIADIDES CAROLINAE	149	139	0	0	0	0	0	0	0	0
KINBERGONUPHIS SIMONI	32	0	43	43	96	43	43	0	11	0
MARPHISA SANGUINEA	0	0	0	0	0	0	0	0	0	0
MARPHISA DISJUNCTA	0	0	21	0	0	0	0	0	0	0
LUMBRINERIS VERRILLI	309	43	117	416	512	373	11	0	363	981
LUMBRINERIS LATREILLI	0	0	0	0	0	0	0	288	0	0
DRILONEREIS LONGA	0	0	21	11	11	0	0	0	0	0
PETTIBONEIA SP. A	0	0	0	0	0	0	0	0	0	11
HAPLOSCOLOPLOS FOLIOSUS	32	21	21	11	21	0	0	43	0	11
HAPLOSCOLOPLOS FRAGILIS	21	0	11	11	0	0	501	0	0	0
HAPLOSCOLOPLOS SP.	0	11	0	0	0	32	43	0	0	0
SCOLOPLOS RUBRA	43	0	96	107	43	0	0	11	43	171
ORBINIA RISERII	11	0	0	0	0	0	0	0	0	0
ARICIDEA PHILBINAE	32	0	1184	992	85	171	3893	843	2485	416
ARICIDEA TAYLORI	0	11	896	416	480	21	2699	181	1163	2347

BENTHOS ABUNDANCE BY STATION AND SPECIES

NUMBER PER SQUARE METER
JUNE 1983

SPECIES NAME	11	12	13	14	15	16	17	18	19	20
ARICIDEA CF. CATHERINAE	11	32	11	0	32	43	64	0	0	20
CIRROPHORUS LYEA	128	53	0	21	11	0	21	43	107	21
SPIONIDAE SP.	0	0	0	0	0	0	11	0	0	43
POLYDORA LIGNI	0	0	0	0	11	0	0	0	0	0
POLYDORA PLENA	0	0	0	0	0	0	0	11	0	0
POLYDORA SOCIALIS	0	0	0	0	0	0	11	0	0	0
POLYDORA SP.	0	0	128	0	11	0	11	0	21	32
PRIONOSPION HETEROBANCHIA	0	21	0	0	0	0	11	21	43	0
PRIONOSPION CRISTATA	11	11	0	0	0	0	0	0	0	0
SPIO PETTIBONEAE	96	11	0	0	11	32	0	11	0	0
SPIOPHANES BOMBYX	0	11	0	0	0	0	0	11	0	0
PSEUDOPOLYDORA SP. A	0	11	0	0	0	0	0	0	0	11
PSEUDOPOLYDORA SP.	0	0	0	0	0	0	11	0	0	0
PARAPIONOSPION PINNATA	43	0	32	11	128	21	11	0	0	0
STREBLOSPIO BENEDICTI	0	0	235	149	21	0	160	213	21	53
APOPRIONOSPION PYGMAEA	139	64	0	0	0	11	0	0	0	96
SCOLELEPIS TEXANA	0	0	0	21	0	21	11	0	0	0
MINUSPIO CIRRIFERA	11	0	0	0	0	0	0	0	21	11
BOCCARDIELLA SP. A	0	0	0	0	0	0	0	0	117	0
MAGELONA PETTIBONEAE	0	0	224	21	21	0	0	21	0	21
SPIOCHAETOPTERUS C. OCULATUS	11	117	0	0	43	11	0	0	0	0
CAULLERIELLA SP.	11	107	0	0	11	0	0	0	0	0
THARYX ANNULOSUS	11	11	373	1792	213	21	1643	11	75	64
CHAETOZONE SP.	85	0	0	0	0	11	0	0	0	0
CIRRATULID SP. A	0	11	0	0	0	0	0	0	0	0
PIROMIS ROBERTI	0	21	0	0	0	0	0	0	0	0
CAPITELLA CAPITATA	0	0	32	21	32	11	373	75	43	11
HETEROMASTUS FILIFORMIS	0	0	43	21	0	0	757	0	0	0
NOTOMASTUS LATERICEUS	0	0	64	0	0	11	0	0	0	11
MEDIOMASTUS AMBISETA	544	149	213	320	224	256	0	0	299	117
MEDIOMASTUS CALIFORNIENSIS	0	0	0	0	0	0	0	107	0	0
ASYCHIS ELONGATA	0	0	43	21	53	0	0	0	0	32
CLYMENELLA TORQUATA	21	0	0	0	0	0	0	0	0	0
AXIOHELLA MUCOSA	21	0	0	11	0	11	0	0	0	0
OWENIA FUSIFORMIS	11	0	0	0	11	0	0	0	0	11
MYRIOCHELE OCULATA	139	75	0	0	181	288	0	0	11	139
SABELLARIA VULGARIS	11	192	0	0	11	21	0	0	0	0
PECTINARIUS GOULDII	11	21	0	0	0	0	0	0	0	0
AMPHICITEIS GUNNERI	0	0	53	0	0	0	501	0	0	0
PISTA CRISTATA	0	0	11	0	43	0	0	0	0	0
POLYCIRRUS, SP.	149	0	11	0	21	60	0	11	11	11
LOIMIA MFOUSA	11	11	0	0	0	0	0	0	0	0
CHONE AMERICANA	0	32	501	32	32	0	1205	352	875	11
MEGALOMMA BIOCLATA	0	11	1835	32	11	0	2080	0	0	0
FABRICIA SABELLA	32	75	0	32	149	128	64	0	43	64
BOGUEIDAE SP.	0	0	0	0	43	11	0	0	0	0
BOGUEA ENIGMATICA	21	0	0	0	85	11	0	0	0	0
BOGUEA SP. A	0	0	0	0	171	11	416	192	107	85
OLIGOCHAETE	85	117	704	96	0	0	0	0	0	0
BARBATIA CANDIDA	0	21	0	0	0	0	75	0	0	0
SAYELLA HEMPHILLI	0	0	43	0	0	0	11	32	0	0
SAYELLA CROSSEANA	0	0	0	0	0	0	0	21	0	0
SOLARIOBIS SHIMERI	21	0	43	11	0	0	0	0	181	0

RENTHOS ABUNDANCE BY STATION AND SPECIES

NUMBER PER SQUARE METER
JUNE 1983

SPECIES NAME	11	12	13	14	15	16	17	18	19	20
CIRCULUS SUPPRESSUS	0	0	0	0	0	0	0	0	0	0
CAECUM PULCHELLUM	0	21	21	0	0	21	11	0	64	64
CAECUM SP.	11	0	0	0	75	0	0	0	0	0
CAECUM STRIGOSUM	0	21	0	0	0	0	0	0	0	0
DIASTOMA VARIUM	0	0	0	0	11	43	32	0	0	0
EPITONTUM SP.	341	11	53	0	0	85	0	0	0	0
CREPIDULA PLANA	0	96	11	0	43	0	0	0	0	0
CREPIDULA MACULOSA	0	0	0	0	32	0	0	0	0	0
POLINICES DUPLICATUS	11	0	0	0	0	0	0	0	0	0
MITRELLA LUNATA	0	64	277	53	43	267	53	11	0	0
ANACHIS OBESA	11	21	0	0	0	0	0	0	0	0
ANACHIS FLORIDANA	0	0	0	0	0	11	0	0	0	0
CANTHARUS CANCELLARIUS	0	11	0	0	0	0	0	0	0	0
NASSARIUS VIREX	0	0	32	11	11	0	11	0	0	0
OLIVELLA MUTICA	0	0	0	0	11	0	0	0	0	0
OLIVELLA PUSILLA	11	96	0	0	0	0	0	0	0	0
OLIVA SAYANA	0	0	0	0	0	0	0	0	0	0
GRANULINA OVULIFORMIS	0	21	11	0	21	21	0	0	0	32
MARGINELLA APICINA	0	0	0	0	0	21	0	0	0	0
MARGINELLA AUROCINCIA	0	21	0	0	0	21	0	0	0	0
EULIMASTOMA CF. E. WEBER	0	0	11	0	0	0	0	0	0	0
ODOSTOMIA SP.	0	0	96	11	75	0	0	0	0	0
ODOSTOMIA IMPRESSA	0	0	0	11	0	21	0	0	11	0
ODOSTOMIA BISUTURALIS	21	0	0	149	0	32	32	11	0	0
TURBONILLA SP.	21	43	0	0	0	11	0	0	0	32
TURBONILLA CONRADI	0	75	11	21	0	11	11	0	0	0
ACTEON PUNCTOSTRIATUS	21	0	96	149	32	43	11	0	0	0
ACTEON CANALICULATA	64	288	128	0	32	53	75	11	0	64
HAMINOE SUCCINEA	0	0	0	96	0	0	0	0	11	0
NUDIBRANCHIA SP.	11	0	0	11	0	11	0	0	0	0
BIVALVIA SP.	11	21	0	0	0	0	0	0	0	0
NUCULA CRENULATA	32	149	0	0	0	0	0	0	0	0
NUCULANA ACUTA	107	544	0	0	32	53	0	11	0	0
MUSCULUS LATERALIS	64	533	0	0	21	0	0	0	0	0
BRACHIDONTES EXUSTUS	0	0	11	0	0	0	0	0	0	0
AMYGDALUM PAPYRIUM	0	0	0	0	32	43	0	0	0	0
DIPLODONTA PUNCTATA	85	53	0	21	117	203	0	0	0	21
MYSELLA PLANULATA	128	0	53	32	43	11	32	11	128	32
ALIGENA TEXASIANA	0	0	0	0	0	11	0	0	0	0
NEAEROMYA FLORIDANA	11	0	0	0	0	0	0	0	0	0
CARDITAMERA FLORIDANA	0	0	0	0	11	0	0	0	0	0
CRASSINELLA CF. LUNULATA	0	32	0	0	0	11	0	0	0	0
LAEVICARDIUM MORTONI	0	53	0	0	0	0	0	0	0	0
MULINIA LATERALIS	32	0	0	0	64	85	0	0	0	0
TELLINA SP.	0	0	0	0	0	0	0	11	0	0
TELLINA VERSICOLOR	21	75	0	0	0	0	0	0	0	0
TAGELUS DIVISUS	53	64	0	0	0	0	0	0	0	0
SEMELE SP. (JUV.)	0	11	0	0	0	0	0	0	0	0
ABRA AEQUALIS	309	555	0	0	11	32	0	0	0	0
TRANSENNELLA CONRADINA	0	0	0	0	11	64	0	0	0	11
CHIONE GRUS	21	21	0	0	0	0	0	0	0	0
CORBULA CONTRACTA	21	0	0	0	0	0	0	0	0	0
LYONSIA HYALINA FLORIDANA	43	192	149	32	11	85	0	0	0	11

SPECIES NAME	11	12	13	14	15	16	17	18	19	20
ASTHENOTHAERUS HEMPHILLI	11	11	0	0	0	0	0	0	0	0
MYDOCOPA SP.	53	107	341	32	21	53	96	64	96	96
PARASTEROPE POLLEX	0	0	0	11	11	11	0	0	0	0
HAPLOCYTHERIDA SETIPUNCTATA	0	0	21	11	0	0	0	0	0	0
CALANOID COPEPODA	32	85	0	0	53	21	0	0	11	0
HARPACTICOID COPEPODA	11	0	0	0	0	0	0	0	0	0
CYCLOPOID COPEPODA	0	0	0	0	0	0	0	0	0	0
BALANUS IMPROVISUS	0	0	0	0	43	0	0	0	11	0
SEMIBALANUS BALANOIDES	0	0	0	0	0	0	0	21	43	0
MYSIDOPSIS BAHIA	0	0	0	0	0	0	0	0	21	0
MYSIDOPSIS FURCA	0	0	0	0	21	0	11	11	0	0
MYSIDOPSIS ALMYRA	0	0	11	0	21	21	11	11	0	0
MYSIDOPSIS BIGELOWI	0	0	0	0	0	0	0	0	0	0
BOWMANIELLA FLORIDANUS	0	0	0	21	21	11	0	32	0	11
TAPHROMYSIS BOWMANI	0	0	0	11	0	0	0	11	0	0
OXYUROSTYLIS SMITHI	11	53	11	21	11	0	11	0	0	0
CUMELLA SP. A.	0	0	64	53	107	53	0	0	0	0
CYCLASPIS cf. VARIANS	0	0	53	0	0	128	0	0	0	0
APANTHURA MAGNIFICA	0	53	0	0	0	0	0	0	0	0
XENANTHURA BREVITELSON	0	53	32	43	0	0	0	0	0	0
CYMODOCE FAXONI	0	0	139	0	0	0	224	0	0	21
SEROLIDAE SP. (JUV.)	0	0	0	0	11	0	0	0	0	0
ERICHSONELLA CF. ATTENUATA	0	0	64	11	0	0	43	0	0	0
EDOTEA TRILOBIA	0	0	96	21	53	43	21	0	11	0
MUNNA CF. HAYESI	11	11	0	0	0	0	0	0	0	0
AMPELISCA HOLMEST	64	11	2571	171	32	32	75	21	0	0
AMPELISCA SP. C.	0	0	171	0	0	0	0	0	0	0
AMPELISCA VADORUM	0	0	21	0	0	0	0	0	0	0
AMPELISCA SP. H.	0	0	21	0	0	0	11	0	0	0
AMPELISCA ABDITA	0	0	800	0	0	0	96	11	0	0
CYMADEUSA COMPTA	0	0	0	0	0	0	32	0	0	0
MICRODEUTOPUS MYERSI	0	11	0	0	0	0	0	0	0	0
ACUMINODEUTOPUS NAGLEI	53	96	0	0	0	21	0	0	0	0
ACUMINODEUTOPUS SP.	0	11	0	0	0	0	0	0	0	0
BATEA CF. CATHARINENSIS	0	0	64	11	0	139	0	0	0	0
COROPHIUM SP.	0	11	0	0	0	0	0	0	0	0
COROPHIUM ACHERUSICUM	0	0	0	0	0	0	0	0	0	0
COROPHIUM LACUSTRA	224	11	0	0	0	0	0	0	21	0
ERICHTHONIUS BRASILIENSIS	0	32	11	0	0	0	0	0	128	0
GRANDIDIERELLA BONNIEROIDES	0	11	203	21	75	43	160	11	907	0
MELITA ELONGATA	0	0	0	0	0	0	0	11	181	0
MELITA SP.	0	0	0	0	0	0	11	11	203	0
MELITA LONGISETOSA	0	0	0	0	0	0	0	0	629	0
PHOTIS MELANICUS	0	21	0	0	0	0	0	0	0	0
PHOTIS SP.	0	75	0	0	0	0	0	0	0	0
LEUCOTHOE CF. SPINICARPA	0	0	0	0	0	0	0	0	0	0
LISTRIFELLA CF. BARNARDI	43	0	0	0	0	11	0	0	11	0
MONOCULODES NYEI	21	128	32	11	0	0	0	0	0	0
PLATYSCHNOPUS SP.	0	11	0	0	0	0	0	0	0	0
EUDEVENOPUS HONDURANUS	0	0	0	0	0	0	0	0	0	0
STENOTHOE CF. MINUTA	11	0	0	0	0	0	0	0	0	0
STENOTHOE SP.	0	32	0	0	0	11	0	0	0	0
IRON TROPAKIS	11	0	0	0	0	0	0	0	0	0

BENTHOS ABUNDANCE BY STATION AND SPECIES

NUMBER PER SQUARE METER
JUNE 1983

SPECIES NAME	11	12	13	14	15	16	17	18	19	20
TIRON TRIODCELLATUS	0	32	0	0	0	11	0	0	0	0
ORCHESTIA CF. PLATENSIS	32	0	0	0	0	11	0	0	0	0
PARACAPRELLA TENUIS	0	75	32	0	0	107	0	0	0	0
TRACHYPENAEUS CONSTRICTUS	11	0	0	0	0	0	0	0	0	0
PERICLIMENES LONGICAUDATUS	0	21	0	0	0	0	0	0	0	0
ALPHEUS HETEROCHELIS	0	0	0	0	0	0	0	0	0	0
ALPHEUS FLORIDANUS	0	0	0	0	0	0	0	0	11	11
OGYRIDES ALPHEROSTRIS	0	0	11	11	0	0	0	43	0	11
HIPPOLYTE PLEURACANTHUS	0	0	0	0	0	75	0	0	0	277
LATREUTES PARVULUS	0	11	0	0	0	0	11	0	0	0
UPOGEBIA AFFINIS	0	0	11	21	0	0	0	0	0	0
PAGURIDAE SP.	11	43	0	0	0	0	11	11	11	0
PAGURUS BREVIDACTYLUS	0	21	0	0	0	11	0	0	0	0
PAGURUS MACLAUGHLINAE	0	11	0	0	0	43	0	0	0	0
PAGURUS GYMNODACTYLUS	0	0	0	0	0	21	0	0	0	0
PETROLISTHES ARMATUS	0	0	0	0	0	0	0	0	0	0
BRACHYURA SP. (JUV.)	0	0	0	11	11	11	0	11	11	0
PARTHENOPIIDAE SP.	0	11	0	0	0	0	0	0	0	0
XANTHIDAE SP.	0	11	0	0	0	0	0	0	0	0
NEOPANOPE TEXANA TEXANA	0	0	0	0	0	0	0	0	32	0
PANOPEUS HERBSTII	11	0	21	0	0	0	11	0	85	0
RHITHROPANOPEUS HARRISII	0	0	11	0	0	0	0	0	11	0
PINNOTHERIDAE SP.	0	0	0	0	11	0	0	0	21	0
PINNIXA PEARSEI	0	11	0	0	0	0	0	0	11	0
PINNIXA SP.	0	32	0	0	0	0	0	0	0	0
CHIRONOMIA	0	0	21	0	0	0	0	0	0	0
SIPUNCULA SP.	0	0	0	11	0	0	0	0	0	0
PHASCOLION SP.	0	11	11	32	11	43	43	32	0	0
BRYOZOA SP. = ECTOPROCTA	11	11	0	0	11	0	0	11	0	21
GLOTTIDIA PYRAMIDATA	11	21	0	0	0	0	0	0	0	0
AMPHIURIDAE SP.	0	21	0	0	0	11	11	0	0	0
AMPHIPHOLIS GRACILLIMA	21	11	0	0	0	0	0	0	0	0
AMPHIOPLUS ABDITUS	11	11	0	0	0	0	0	0	0	0
HOLOTHUROIDEA SP.	11	21	0	0	0	0	0	0	0	0
ASCIDIACEA SP.	0	11	0	0	0	0	0	0	0	0
BRANCHIOSTOMA CARIBAEUM	11	0	0	0	0	0	0	0	0	0
MICROGObIUS GULOSUS	0	0	0	0	0	0	0	11	11	21
TOTAL DENSITY	5120	6091	13579	6027	4800	4405	18069	3189	9845	5707
TOTAL NUMBER OF SPECIES	99	110	77	67	86	83	63	48	58	50

BENTHOS ABUNDANCE BY STATION AND SPECIES

NUMBER PER SQUARE METER
JUNE 1983

SPECIES NAME	21	22	23	24	25	26	27	28	29	30
ANEMONE SP.	0	0	0	0	11	0	0	0	0	0
PORIFERA SP.	0	0	11	0	0	21	11	0	53	0
HYDROZOA SP.	0	0	0	0	0	0	0	0	21	0
ATHENARIA	0	0	21	0	21	21	0	0	0	11
THENARIA SP.	0	0	0	11	0	0	0	43	0	11
STYLOCHUS SP.	11	75	32	11	43	32	0	0	0	0
NEMERTINA SP. = RHYNCHOCELA	192	75	128	107	117	128	96	331	533	213
NEMATODA	0	11	0	0	320	256	75	107	128	789
POLYCHAETA SP.	0	0	0	0	0	0	11	0	0	0
POLYNOID SP.	0	0	0	0	11	0	0	0	0	0
LEPIDONOTUS SUBLEVIS	0	0	0	0	21	0	0	0	0	0
LEPIDONOTUS VARIABILIS	0	0	11	0	0	0	0	0	0	0
LEPIDASTHENIA VARIUS	0	0	11	0	0	0	0	0	0	0
POLYNOID GENUS D	0	21	11	0	0	0	0	11	0	0
POLYNOID GENUS B	0	21	0	0	0	0	0	0	0	0
STHENELAIS OBLIQUIS	0	0	53	11	0	32	0	0	0	0
PARAMPHINOME SP. B	0	0	0	43	11	0	0	0	0	0
PHYLLODOCE CASTANEA	64	21	0	0	11	0	0	0	789	0
PHYLLODOCE ARENAE	21	11	96	43	75	64	0	53	21	96
ETEONE HETEROPODA	0	0	149	43	0	0	96	85	0	21
EULALIA SANGUINEA	11	21	0	0	21	43	0	21	117	11
GYPTIS BREVIPALPA	0	0	11	0	0	0	0	0	139	32
ANCISTROSYLLIS CF. HAMATA	0	0	0	0	11	0	0	0	0	0
SYLLIDAE SP.	0	0	0	0	0	0	0	0	0	21
AUTOLYTUS DENTALIUS	0	0	0	0	0	11	0	0	11	0
TYPOSYLLIS CF. LUTEA	0	0	0	0	0	0	0	0	21	0
EXOGONE DISPAR	0	11	96	0	11	21	64	32	75	107
EXOGONE LOUREI	0	0	64	0	32	53	0	11	11	21
SPHAEROSYLLIS SPP.	0	0	0	0	0	0	0	0	11	0
SPHAEROSYLLIS TAYLORI	21	0	21	0	0	0	0	0	43	21
BRANIA WELFLEETENSIS	0	0	0	11	0	0	0	0	0	0
BRANIA CLAVATA	0	0	0	0	0	0	0	0	11	0
EHLERSIA CORNUTA	0	0	64	0	11	21	0	11	43	149
ODONTOSYLLIS ENOPLA	0	0	0	0	0	0	11	0	0	0
STREPTOSYLLIS PETTIBONEAE	0	0	21	0	0	0	0	0	0	0
PARAPIONOSYLLIS LONGICIRRATA	0	0	0	11	53	0	0	0	0	0
BRANCHIOSYLLIS EXILIS	0	0	0	0	0	0	11	0	0	0
NEREIDAE SP.	0	0	0	0	0	0	0	11	0	0
CERATONEREIS IRRATABILIS	0	0	0	0	11	0	0	0	0	0
NEANTHES MICROMMA	0	21	21	11	32	117	0	0	0	128
NEANTHES SUCCINEA	0	0	0	0	0	0	11	0	75	21
NEREIS SP.	0	0	0	0	11	0	757	0	0	0
LAONEREIS CULVERI	0	0	0	0	0	21	0	0	0	0
NEPHYS SIMONI	0	32	0	32	11	64	0	0	0	11
AGLACPHAMUS VERRILLI	0	0	0	0	0	0	32	0	0	0
GLYCERA AMERICANA	0	11	0	32	11	11	11	21	0	0
GLYCERA SP. C	0	0	0	0	21	0	0	0	0	0
HEMIPODUS ROSEUS	0	0	0	0	0	0	0	0	85	0
GLYCINDE SOLITARIA	11	11	21	21	53	0	0	21	0	11
GONIADIDES CAROLINAE	0	0	11	0	1984	1077	0	0	0	11
ONUPHIDAE SP.	0	0	0	0	0	43	0	75	0	0
KIMBERGONUPHIS SIMONI	0	0	32	0	11	0	0	117	0	43
LUMBRINERIS VERRILLI	875	523	288	192	96	171	32	1717	21	533

BENTHOS ABUNDANCE BY STATION AND SPECIES

NUMBER PER SQUARE METER
JUNE 1983

2

SPECIES NAME	21	22	23	24	25	26	27	28	29	30
LUMBRINERIS SP. D	11	11	53	32	43	11	0	0	0	21
DRILONEREIS LONGA	11	0	0	11	0	11	0	53	0	11
ARABELLA IRICOLOR	0	0	11	0	0	0	0	0	0	11
DORVILLEA SOCIABILIS	0	0	0	0	0	0	11	0	0	0
PETITBONEIA SP. A	0	0	0	0	0	0	0	0	0	21
ORIBINIIDAE SP.	0	0	0	0	0	11	0	0	0	0
HAPLOSCOLOPLOS FOLIOSUS	11	43	0	21	21	32	64	160	0	96
HAPLOSCOLOPLOS FRAGILIS	75	11	0	107	0	0	85	75	0	11
HAPLOSCOLOPLOS SP.	0	0	0	21	0	0	0	0	0	0
SCOLOPLOS RUBRA	75	64	11	21	0	32	0	363	0	21
ORBINIA RISERII	0	0	0	0	0	11	0	0	0	0
ARICIDEA PHILBINAE	491	32	469	43	0	0	2187	213	0	427
ARICIDEA TAYLORI	2645	267	171	21	64	139	1376	725	53	747
ARICIDEA CF. CATHERINAE	0	43	85	139	11	96	0	0	21	0
CIRROPHORUS LYRA	32	11	0	11	277	235	21	117	192	341
CIRROPHORUS CF. FORTICIRRATUS	0	0	11	0	0	0	0	0	0	0
POLYDORA LIGNI	0	0	0	0	0	0	0	0	11	0
POLYDORA SOCIALIS	0	0	11	0	0	0	11	11	11	11
POLYDORA SP.	0	0	0	0	0	11	0	0	0	0
PRIONOSPPIO HETEROBRANCHIA	0	11	0	0	0	0	181	0	85	11
PRIONOSPPIO CRISTATA	0	0	0	0	11	32	0	0	0	0
SPIO PETTIBONEAE	0	0	0	0	11	11	0	0	0	11
SPIOPHANES BOMBYX	0	11	0	75	139	21	0	11	0	21
PSEUDOPOLYDORA SP. A	32	0	0	0	96	11	0	0	0	0
PSEUDOPOLYDORA SP.	0	0	0	0	0	0	0	0	21	427
PARAPIONOSPPIO PINNATA	192	75	32	11	11	21	0	96	0	11
STREBLOSPPIO BENEDICTII	405	0	0	0	0	0	203	181	0	0
APORIONOSPPIO PYGMAEA	0	0	0	85	0	0	0	0	0	0
SCOLELEPIS TEXANA	53	11	0	0	0	0	11	11	0	11
MINUSPIO CIRRIFERA	43	11	0	21	0	0	0	0	0	0
MAGELONA PETTIBONEAE	11	21	0	0	0	11	21	128	0	107
PEGILOCHAETUS JOHNSONI	0	0	21	0	43	139	0	0	0	11
SPIOCHAETOPTERUS C. OCULATUS	43	64	0	32	53	85	11	32	0	128
CAULLERIELLA SP.	0	0	320	0	53	21	0	0	0	0
THARYX ANNULOSUS	277	235	384	75	11	11	533	683	0	149
CHAETOZONE SP.	0	0	0	181	43	181	0	0	0	0
ACROCIRRUS FRONITIFILIS	0	0	0	0	0	0	0	0	1120	0
CAPITELLA CAPITATA	21	0	0	0	0	0	75	11	64	0
HETEROMASTUS FILIFORMIS	11	0	0	0	0	0	21	32	0	0
NOTOMASTUS LATERICEUS	11	32	0	181	0	0	0	32	0	0
MEDIOMASTUS AMBISETA	416	64	416	64	597	640	32	235	629	405
MEDIOMASTUS CALIFORNIENSIS	0	0	0	0	11	0	0	0	0	0
LEIOCHRIDES PALLIDIOR	0	0	0	0	11	0	0	0	0	0
ARENICOLA CRISTATA	0	0	0	0	0	0	11	0	0	0
ASYCHIS ELONGATA	11	0	0	0	0	0	11	64	0	11
CLYMENELLA TORQUATA	11	160	21	43	43	0	0	277	0	192
MAIDANE GLEBIFEX	0	0	0	0	0	0	0	0	0	21
AXIOHELLA MUCOSA	0	0	0	0	11	0	43	117	0	32
OWENIA FUSIFORMIS	0	21	0	0	11	11	0	0	0	32
MYRIOCHELE OCULATA	213	331	128	64	309	96	0	64	0	277
SABELLARIA VULGARIS	0	0	85	0	0	43	0	0	0	21
PECTINARIIS GOULDII	11	21	0	0	0	11	0	21	0	11
AMPHICTEIS GUNNERI	0	11	0	0	0	0	96	0	0	0

BENTHOS ABUNDANCE BY STATION AND SPECIES

3

NUMBER PER SQUARE METER
JUNE 1983

SPECIES NAME	STATION	21	22	23	24	25	26	27	28	29	30
TIREBELLIDAE UNID. SP.		0	0	0	0	0	11	0	0	0	0
PISTA CRISTATA		0	64	75	0	0	21	0	0	0	11
PISTA CF. QUADRILOBATA		0	0	0	0	0	0	0	0	0	11
POLYCIRRUS SP.		0	21	96	32	64	64	0	0	11	256
THELEPUS SETOSUS		0	0	11	0	11	0	0	0	0	0
LOIMIA MEDUSA		0	0	43	0	32	11	0	0	0	0
AMAENA TRILOBATA		0	0	11	0	0	0	0	0	0	0
CHONE AMERICANA		21	0	11	0	0	128	224	501	64	85
POTAMILLA RENIFORMIS		0	0	0	0	0	0	11	0	0	0
FABRICIA SABELLA		0	224	160	11	75	213	0	1504	11	331
HYROIDES DIANTHUS		0	0	0	0	0	0	11	0	11	0
BOGUEA ENIGMATICA		0	21	149	0	0	0	0	0	0	32
BOGUEA SP. A		0	0	0	0	0	0	0	0	0	53
POLYGORDIUS SP.		0	0	0	0	21	0	0	0	0	0
OLIGOCHAETE		1035	21	267	85	245	139	363	85	779	181
GASTROPODA SP.		0	0	0	0	0	11	0	0	11	0
SOLARIOBIS SHIMERI		0	0	0	11	0	0	0	0	11	0
COCHLIOLEPIS PARASITICA		0	11	0	0	0	0	0	0	0	0
CAECUM PULCHELLUM		0	0	21	0	0	0	0	0	0	0
CAECUM SP.		0	0	0	0	149	0	0	0	2880	0
DIASTOMA VARIUM		0	0	0	0	0	11	107	0	20011	0
EPITONIUM SP.		0	0	0	21	0	43	0	0	0	0
MELANELLA SP.		0	0	0	0	0	11	0	0	0	0
CREPIDULA PLANA		0	21	1109	32	11	139	0	43	491	160
CREPIDULA MACULOSA		0	0	0	0	0	0	53	0	0	11
POLINICES DUPLICATUS		0	0	0	0	0	43	0	0	0	0
MITRELLA LUNATA		0	21	85	0	0	21	53	21	32	21
ANACHIS OBESA		0	0	32	0	11	0	0	0	21	0
ANACHIS SEMPLICATA		0	0	0	0	0	0	43	0	0	0
ANACHIS SP.		0	0	0	0	0	0	0	0	21	0
CANTHARIUS CANCELLARIUS		0	0	0	0	43	21	0	0	0	0
NASSARIUS VIBEX		0	0	0	0	0	0	21	0	0	0
OLIVELLA PUSILLA		0	0	0	21	0	21	0	0	0	11
OLIVELLA PERPLEXA		0	0	0	0	0	11	0	0	0	0
OLIVA SAYANA		0	11	0	0	0	11	0	0	0	0
GRANULINA OVULIFORMIS		0	21	0	0	0	0	11	43	0	0
MARGINELLA APICINA		0	11	0	0	0	0	11	0	0	0
HYALINA SP.		0	0	0	0	21	11	21	0	0	0
MANGELIA MELANITICA		0	0	0	0	0	11	0	0	0	0
ODOSTOMIA SP.		0	0	21	0	0	0	0	0	0	0
ODOSTOMIA IMPRESSA		0	0	32	0	0	0	0	0	0	0
ODOSTOMIA BISUTURALIS		0	11	0	0	0	0	21	0	11	0
TURBONILLA SP.		0	0	0	21	0	43	64	21	0	11
TURBONILLA CONRADI		11	11	21	0	21	32	0	21	0	21
CYCLOSTREMELLA HUMILIS		0	32	0	0	0	21	0	0	0	0
ACTEON PUNCTOSTRIATUS		11	21	11	21	11	32	85	53	0	0
ACTEON CANALICULATA		0	0	11	75	43	53	85	0	0	0
HAMINOE SUCCINEA		0	0	0	0	0	0	96	0	0	0
CYLINDROBULLA BEAUIT		0	0	0	0	0	0	0	0	0	11
NUDIBRANCHIA SP.		0	0	0	0	0	11	0	0	0	0
BIVALVIA SP.		0	53	11	0	0	53	0	11	0	0
NUCULA CRENULATA		11	0	75	32	43	139	0	0	0	32
NUCULANA ACUTA		11	0	0	85	117	320	0	0	0	0

BENTHOS ABUNDANCE BY STATION AND SPECIES

NUMBER PER SQUARE METER
JUNE 1983

SPECIES NAME	21	22	23	24	25	26	27	28	29	30
GLYCYMERIS PECTINATA	0	0	0	0	0	11	0	0	0	0
MUSCULUS LATERALIS	0	21	11	0	11	0	0	0	0	11
BRACHIDONTES EXUSTUS	0	11	160	0	0	0	0	0	885	32
AMYGDALUM PAPHIUM	0	85	64	0	11	0	11	21	0	85
CRASSOSTREA VIRGINICA	0	0	0	0	0	0	0	0	160	0
LUCINIDAE SP.	0	0	0	11	0	0	0	0	0	0
DIPLODONTA PUNCTATA	0	11	11	64	64	85	0	0	0	0
MYSELIA PLANULATA	0	96	85	53	213	117	96	75	160	11
ALIGENA TEXASIANA	0	416	0	53	43	0	0	683	0	139
NEAEROMYA FLORIDANA	0	11	0	32	11	0	32	21	0	555
ENSITELLOPS SP.	0	0	0	0	0	0	0	0	0	0
CARDITAMERA FLORIDANA	0	0	11	0	0	0	0	0	0	11
CARDIIDAE SP.	0	0	0	0	0	0	0	0	11	0
LAEVICARDIUM MORTONI	0	0	11	0	11	1	0	0	0	0
MULINIA LATERALIS	0	64	21	85	43	0	0	0	0	11
ENSIS MINOR	0	0	0	21	0	0	0	0	0	0
TELLINA SP.	0	0	11	21	0	0	0	0	0	0
TELLINA VERSICOLOR	0	11	0	11	0	0	0	0	0	0
TAGELUS DIVISUS	0	21	53	43	64	53	0	0	0	0
SEMELE BELASTRIATA	0	0	0	0	0	128	0	0	0	53
ABRA AEQUALIS	0	0	11	160	565	1056	0	0	0	0
TRANSENIELLA CONRADINA	11	0	64	11	0	0	75	139	0	32
MERCENARIA CAMPECHIENSIS	0	0	0	11	0	0	0	0	0	117
CHITONE SP.	0	0	0	0	0	11	0	0	0	0
SPHENIA ANTILLENIS	0	0	0	0	11	0	0	0	0	0
CORBULA CONTRACTA	0	0	0	11	75	0	0	0	0	0
L'ONSIA HYALINA FLORIDANA	0	53	171	53	160	213	21	11	0	0
ASTHENOTHAEUS HEMPHILLI	0	0	0	32	11	0	0	0	0	85
HYDRACARINA SP.	0	0	0	0	0	11	0	0	0	0
MYODOCOPA SP.	107	64	0	32	117	181	224	501	21	0
PARASTERGPE POLLEX	0	0	0	0	11	0	53	619	0	85
PODOCOPA SPP.	0	0	0	0	0	0	0	0	0	11
HAPLOCYTHERIDA SETIPUNCTATA	32	0	0	11	0	0	0	0	0	11
CALANOID COPEPODA	0	0	21	75	171	235	43	75	565	85
HARPACTICOID COPEPODA	0	0	0	0	0	11	0	0	32	11
CYCLOPOID COPEPODA	0	0	0	0	0	0	11	0	171	0
ARGULUS SP.	0	0	0	0	0	0	0	0	0	0
BALANUS IMPROVISUS	0	11	491	0	0	0	0	0	5589	0
SEMIBALANUS BALANOIDES	0	0	96	0	0	0	0	0	0	0
MYSIDOPSIS BAHIA	0	21	85	0	0	0	0	43	0	0
MYSIDOPSIS BIGELOWI	0	85	32	32	0	11	32	0	0	64
BOWMANIELLA SP.	0	11	0	0	0	0	0	0	11	0
BOWMANIELLA FLORIDANUS	0	0	0	0	0	0	0	43	0	0
OXYUROSTYLIS SMITHI	0	11	0	96	43	75	64	21	0	32
GUMELLA SP. A.	11	32	0	11	0	0	21	128	21	21
CYCLASPIS SP. B	0	0	0	0	0	11	0	0	0	0
VAUNTHOMPSONIA SP.	0	0	0	0	21	0	0	0	0	0
HALMYRAPSEUDES CF. CUBANENSIS	0	0	11	0	0	0	0	0	0	0
KALLIAPSEUDES SP. A	0	11	0	43	11	21	0	0	0	0
APANTHURA MAGNIFICA	0	0	0	0	0	0	0	32	0	43
XENANTHURA BREVITELSON	0	0	11	0	0	0	0	0	0	0
PARACERCEIS CAUDATA	0	0	0	0	0	11	0	0	416	0
CYMODOCE FAXONI	0	0	0	0	0	0	32	0	0	0

BENTHOS ABUNDANCE BY STATION AND SPECIES

NUMBER PER SQUARE METER
JUNE 1983

SPECIES NAME	21	22	23	24	25	26	27	28	29	30
ERICHSONELLA CF. ATTENUATA	0	0	0	0	0	0	181	0	0	0
EDOTEA TRILORA	0	96	32	0	0	0	21	171	0	96
MUNNA CF. HAYESI	0	0	0	0	11	32	0	0	0	0
AMPELISCA HOLMESI	0	21	43	43	53	53	107	331	0	437
AMPELISCA SP. B	0	0	11	0	0	0	0	0	0	0
AMPELISCA ABDITA	0	11	21	0	0	11	85	0	0	43
CYMAEUS COMPTA	0	0	0	0	0	0	43	0	0	0
LEMBOS SMITHI	0	0	0	0	0	11	0	0	0	0
MICRODEUTOPUS MYERSI	0	0	0	0	0	11	0	0	0	0
ACUMINODEUTOPUS NAGLEI	0	0	64	11	32	85	0	11	0	43
BATEA CF. CATHARINENSIS	0	128	0	0	0	0	0	11	0	11
CERAPUS SP. A	0	0	0	0	21	32	0	0	0	0
COROPHIUM LOUISANUM	0	0	21	0	0	0	0	0	0	0
COROPHIUM ACHERUSICUM	0	0	11	0	0	0	0	0	64	0
COROPHIUM LACUSTRA	0	0	0	0	0	21	43	0	0	160
ERICHTHONIUS BRASILIENSIS	0	64	0	0	0	107	32	0	0	0
GRANDIDIERELLA BONNIEROIDES	11	0	43	0	0	0	117	11	32	43
ELASMOPUS LEVIS	0	0	0	0	0	0	0	0	245	21
MELITA ELONGATA	0	0	0	0	0	0	0	0	245	0
MELITA SP.	0	0	0	0	0	0	11	0	0	0
MELITA LONGISETOSA	11	0	0	0	0	0	11	0	971	0
PHOTIS MELANICUS	0	0	0	0	0	11	0	0	0	0
PHOTIS SP.	0	0	0	0	11	0	0	0	0	0
LEUCOTHOE CF. SPINICARPA	0	0	0	0	0	21	32	0	0	0
LITRIELLA CF. BARNARDI	0	0	43	21	64	117	21	0	0	64
MONOCULODES NYEI	0	11	11	11	0	43	0	11	0	11
SYNCHYLIDUM CF. AMERICANUM	0	0	0	0	0	32	0	0	0	0
TIRON TROPAKIS	0	0	0	0	0	11	0	0	0	0
TIRON TRIOCCELLATUS	0	0	0	0	21	53	0	0	0	0
ORCHESTIA CF. PLATENSIS	11	0	0	64	21	43	32	64	53	11
PARACAPRELLA TENUIIS	0	11	11	0	0	0	0	0	0	0
PENAEUS SP.	0	11	0	0	0	0	0	0	0	0
LEPTOCHELA SERRATORBITA	0	11	0	0	0	0	0	0	0	0
ALPHEUS FLORIDANUS	0	0	0	0	0	11	0	0	0	11
OGYRIDES ALPHEROSTRIS	64	0	0	0	0	0	43	43	0	11
HIPPOLYTE PLEURACANTHUS	0	0	0	0	0	0	107	0	0	0
UPOGEBIA AFFINIS	0	11	0	0	0	0	0	0	0	11
PAGURIDAE SP.	0	0	43	11	128	85	0	0	0	11
PAGURUS BREVIDACTYLUS	0	0	0	0	0	21	21	0	0	0
PAGURUS MACLAUGHLINAE	0	0	0	0	11	0	0	0	0	0
BRACHYURA SP. (JUV.)	0	0	0	0	21	32	11	21	0	0
PARTHENOPIIDAE SP.	0	0	0	0	0	11	0	0	0	0
XANTHIDAE SP.	0	0	21	0	0	128	0	0	181	0
NEOPANOPE TEXANA TEXANA	0	0	0	0	0	0	53	0	0	0
PANOPEUS HERBSTII	0	0	11	0	0	0	0	0	0	0
PINNOTHERIDAE SP.	0	0	11	0	85	117	0	11	11	11
PINNIXA CHAETOPTERANA	0	0	0	0	0	21	0	0	0	0
PINNIXA PEARSEI	11	0	0	11	11	0	11	0	0	21
SIPUNCULA SP.	0	0	11	0	0	0	0	0	0	0
PHASCOLION SP.	0	0	11	0	21	0	0	21	0	0
PHORONIS ARCHITECTA	0	0	11	0	0	0	11	0	0	0
BRYOZOA SP. = ECTOPROCTA	0	32	0	0	11	0	11	11	11	0
GLOTTIDIA PYRAMIDATA	0	0	0	0	32	0	0	0	0	11

BENTHOS ABUNDANCE BY STATION AND SPECIES

6

NUMBER PER SQUARE METER
JUNE 1983

SPECIES NAME	STATION									
	21	22	23	24	25	26	27	28	29	30
OPHIOLEPIS ELEGANS	0	21	0	0	0	11	0	0	0	0
AMPHIURIDAE SP.	0	0	0	21	32	11	0	0	0	0
AMPHIPHOLIS GRACILLIMA	11	32	0	32	11	0	0	0	0	11
OPHIOPHRAGMUS WURDEMANI	0	0	0	11	0	0	0	0	0	0
AMPHIOPUS ABDITUS	0	0	11	0	0	0	0	11	0	0
MICROPHOLIS ATRA	0	11	0	0	0	0	0	0	0	0
HOLOTHUROIDEA SP.	0	0	0	11	0	11	43	0	0	0
ASCIDIACEA SP.	0	0	0	0	0	0	11	0	96	0
SYNGNATHUS LOUISIANAE	0	0	0	0	11	0	0	0	0	0
TOTAL DENSITY	7691	4501	7499	3499	8107	9227	9269	11819	38752	9653
TOTAL NUMBER OF SPECIES	48	85	94	81	105	122	86	77	66	107

NUMBER PER SQUARE METER
JUNE 1983

SPECIES NAME	31	32	33	34	35	36	37	38	39	40
ANEMONE SP.	43	0	0	0	0	0	0	0	0	0
HYDROZOA SP.	0	0	0	0	32	0	0	11	0	0
ANTHOZOA SP.	21	0	0	0	0	0	0	0	0	0
ATHENARIA	0	0	0	0	0	11	0	0	0	0
THENARIA SP.	0	0	0	11	0	0	0	0	0	0
STYLOCHUS SP.	21	53	21	75	43	0	32	0	11	11
NEMERTINA SP. = RHYNCHOCELA	117	107	1227	139	192	107	160	181	267	288
NEMATODA	107	1227	224	224	800	0	277	85	213	160
LEPIDOMETRIA COMMENSALIS	0	21	0	0	0	0	0	0	0	0
POLYNOID GENUS D	21	0	0	75	11	0	21	0	0	0
POLYNOID GENUS B	0	0	21	0	11	0	0	0	21	43
STHENELAIS OBLIQUIS	0	0	0	0	0	0	0	0	0	11
FIMBRIOSTHENELAIS MINOR	0	0	0	0	0	0	0	0	0	0
PARAMPHINOME SP. B	0	0	0	21	267	0	64	0	0	11
PHYLLODOCE ARENAE	21	11	53	64	75	21	21	32	96	64
ETEONE HETEROPODA	53	21	0	0	0	32	0	171	0	85
EULALIA SANGUINEA	11	149	11	43	96	0	11	11	32	21
PARANALITIS POLYNOIDES	0	0	0	0	0	11	0	0	0	11
HESIONIDAE SP.	0	11	0	0	0	0	0	0	0	0
GYPTIS BREVIPALPA	11	75	53	0	11	43	288	53	11	107
AMPHIDUROS SP. A	0	0	0	0	0	0	0	0	0	11
PODARKE OBSCURA	0	0	0	0	11	0	0	0	0	0
ANCISTROSYLLIS HARTMANAE	0	0	0	0	0	0	11	0	0	0
ANCISTROSYLLIS SP. A	0	0	0	0	0	0	11	0	0	0
ANCISTROSYLLIS CF. HAMATA	0	0	0	0	0	0	11	0	0	0
STIGAMBRA BASSI	0	0	0	0	0	0	0	0	0	0
AUTOLYTUS DENTALIUS	0	0	0	0	11	0	0	0	0	21
PIONOSYLLIS SP.	0	0	0	0	11	0	0	0	0	0
TYPOSYLLIS SP.	0	235	0	0	11	0	0	0	0	0
EXOGENE DISPAR	11	235	0	43	11	0	21	0	128	0
EXOGENE LOUREI	0	160	0	11	32	0	0	0	64	0
SPHAEROSYLLIS SPP.	0	0	0	0	0	0	0	0	21	0
SPHAEROSYLLIS TAYLORI	0	0	0	0	21	0	0	0	0	0
SPHAEROSYLLIS LONGICAUDATA	0	11	0	0	0	0	0	0	0	0
SPHAEROSYLLIS GLANDULATA	0	0	0	0	21	0	0	0	0	0
BRANIA SP.	0	0	0	0	0	0	0	11	0	0
BRANIA WELFLEETENSIS	0	0	0	0	0	0	0	0	0	0
EHLESTIA CORNUTA	11	117	0	11	21	11	11	0	21	11
PARAPIONOSYLLIS LONGICIRRATA	0	0	0	0	21	0	0	0	0	0
PARAPIONOSYLLIS SP.	0	21	0	0	0	0	0	0	0	0
CERATONEREIS IRRATABILIS	0	0	0	11	43	32	0	0	0	0
NEANTHES MICROMMA	0	0	32	331	21	0	43	0	53	11
NEANTHES ACUMINATA	0	21	0	0	0	0	0	0	0	0
NEANTHES SUCCINEA	0	715	11	0	0	0	0	0	0	21
LAEONEREIS CULVERI	149	0	0	0	0	0	0	0	0	0
NEPHYTS SIMONI	0	0	0	0	0	0	0	0	0	0
AGLAOPHAMUS VERRILLI	0	0	0	0	43	32	11	0	0	21
GLYCERIDAE SP.	0	0	0	0	0	160	0	0	0	0
GLYCERA AMERICANA	11	0	43	0	32	0	11	0	11	32
GLYCERA SP. C	0	0	0	43	0	0	21	0	0	0
GLYCERA SP.	0	11	0	0	11	0	21	0	0	0
GLYCERA DIBRANCHIATA	0	0	11	0	107	11	21	0	0	0
HEMIPODUS ROSEUS	0	0	0	0	0	0	0	0	0	0

BENTHOS ABUNDANCE BY STATION AND SPECIES
NUMBER PER SQUARE METER
JUNE 1983

2

SPECIES NAME	31	32	33	34	35	36	37	38	39	40
GLYCINDE SOLITARIA	21	64	53	43	11	0	0	0	96	43
GONIADIDES CAROLINAE	0	0	0	0	2144	0	619	0	0	0
DIOPATRA CUPREA	21	0	0	0	0	0	0	0	11	0
KINBERGONUPHIS SIMONI	85	53	32	96	0	0	32	139	107	0
EUNICIDAE SP.	0	11	0	11	0	0	0	0	0	0
MARPHISA SANGUINEA	0	139	0	0	0	0	0	0	0	0
LYSIDICE NINETTA	117	0	0	0	0	0	0	0	11	0
LUMBRINERIS VERRILI	0	11	213	267	75	139	299	0	235	341
LUMBRINERIS SP. D	0	0	0	0	43	32	0	0	53	0
LUMBRINERIS TENJIS	0	0	640	32	0	139	0	0	0	1216
LUMBRINERIS TESTUDINUM	0	0	11	0	0	0	0	0	0	0
DRILONEREIS LONGA	0	11	0	0	11	0	0	0	21	0
ARABELLA MUTANS	0	11	0	0	0	0	0	0	0	0
DORVILLEA SOCIABILIS	0	0	0	0	0	0	0	0	0	21
SCHISTOMERINGOS RUDDOLPHI	0	171	0	11	0	0	0	0	0	0
PETTIBONEIA SP. A	0	0	21	11	0	0	11	0	11	11
ORIBINIIDAE SP.	0	0	0	0	11	0	0	0	0	0
HAPLOSCOPLOS FOLIOSUS	43	0	21	0	0	0	11	128	128	0
HAPLOSCOPLOS FRAGILIS	21	0	43	0	0	85	11	0	21	139
HAPLOSCOPLOS SP.	0	0	0	0	0	0	11	0	0	0
NAINERIS BICORNIS	0	43	0	0	0	0	0	0	0	0
SCOLOPLOS RUBRA	149	107	21	0	11	0	11	245	21	0
PHYLO FELIX	0	0	0	0	11	0	0	0	0	0
ORBINIA RISERII	0	0	0	0	21	0	21	0	0	0
ARICIDEA PHILBINAE	160	128	117	181	0	0	0	309	53	21
ARICIDEA TAYLORI	53	160	192	117	32	32	43	85	235	85
ARICIDEA CF. CATHERINAE	0	0	21	53	0	75	11	0	0	64
ARICIDEA SP. C	0	0	0	0	11	0	0	0	0	0
CIRROPHORUS LYRA	85	0	21	53	117	0	181	320	43	171
LAONICE CIRATA	0	0	0	0	0	0	0	107	0	0
POLYDORA LIGNI	0	0	0	0	0	0	11	0	0	0
POLYDORA SOCIALIS	0	117	0	0	11	0	11	0	0	0
POLYDORA WEBSTERI	0	0	11	0	0	0	0	0	21	0
PRIONOSPION HETEROBRANCHIA	0	43	0	21	0	0	0	0	0	0
SPIO PETTIBONEAE	0	0	0	0	0	32	0	0	21	0
SPIOPHANES ROMBYX	0	0	0	11	117	96	43	0	0	53
PSEUDOPOLYDORA SP. A	0	736	43	0	0	0	0	11	43	32
PSEUDOPOLYDORA SP.	139	0	0	75	0	0	117	0	0	0
PARAPIONOSPION PINNATA	0	0	43	32	0	32	43	0	96	53
STRIBLOSPIO BENEDICTI	53	117	0	96	0	0	0	0	0	0
APOPRIONOSPION PYGMAEA	0	0	0	21	0	53	43	0	0	0
SCOLELEPIS TEXANA	85	0	11	0	0	0	11	0	64	0
MINUSPIO CIRRIFERA	75	21	53	96	0	0	0	0	11	0
MAGELONA PETTIBONEAE	85	11	32	0	0	0	0	267	96	288
MAGELONA PACIFICA	0	0	0	0	0	0	0	0	0	11
POECILOCHAETUS JOHNSONI	0	0	0	0	32	0	43	0	0	0
SPIOCHAETOPTERUS C. OCULATUS	43	11	75	160	11	75	96	0	160	192
CIRRATULIDAE SP.	0	0	0	0	0	0	11	0	0	0
CAULLERIELLA SP.	0	0	0	21	53	0	11	0	0	0
THARYX ANNULOSUS	501	1717	192	352	0	53	21	0	768	245
CHAETOZONE SP.	0	0	0	11	0	0	21	0	0	0
PIROMIS ROBERTI	0	0	0	21	0	0	11	0	0	0
HYBOSCOLEX LONGISETA	0	43	0	0	0	0	0	0	0	0

BENTHOS ABUNDANCE BY STATION AND SPECIES

NUMBER PER SQUARE METER
JUNE 1983

SPECIES NAME	31	32	33	34	35	36	37	38	39	40
TRAVISIA HOBSONAE	0	0	0	0	0	21	0	0	0	0
CAPITELLA CAPITATA	11	576	21	0	0	0	11	53	43	11
HETEROMASTUS FILIFORMIS	21	128	0	0	0	0	0	43	0	0
NOTOMASTUS LATERICEUS	0	21	160	128	11	192	21	0	75	523
NOTOMASTUS LOBATUS	0	0	0	11	0	0	0	0	0	0
MEDIOMASTUS AMBIESETA	53	0	32	405	0	85	651	43	0	0
MEDIOMASTUS CALIFORNIENSIS	0	2048	0	0	0	0	0	0	0	0
MEDIOMASTUS SP.	0	0	0	0	277	0	0	0	811	139
LETOCHRIDES PALLIDIOR	0	11	0	0	0	0	0	0	0	0
ASYCHIS ELONGATA	181	0	213	64	11	0	0	0	224	11
CLYMENELLA TORQUATA	0	0	85	107	0	21	32	0	139	501
AXIOHELLA MUCOSA	21	117	0	32	96	11	11	107	32	85
EUCLYMENE CF. SP. B	0	11	0	0	0	0	0	0	21	53
MACROCLYMENE SP.	0	0	0	0	0	0	0	0	0	21
OWENIA FUSIFORMIS	0	0	0	0	0	0	0	0	11	0
MYRIOCHELE OCULATA	0	0	75	384	11	64	75	0	267	1205
SABELLARIA VULGARIS	0	96	0	21	21	0	11	0	0	0
PECTINARIUS GOULDI	11	11	0	11	0	0	0	0	0	0
AMPHICTEIS GUNNERI	0	32	0	0	0	0	0	427	0	0
MELINNA MACULATA	0	0	0	11	0	0	0	0	0	0
TEREBELLIDAE UNID. SP.	0	0	0	0	11	0	0	0	0	0
PISTA CRISTATA	0	11	11	0	32	0	21	11	53	0
POLYCIRRUS SP.	11	11	21	213	21	64	192	149	64	64
THELEPUS SETOSUS	0	43	0	0	0	0	0	0	0	0
AMAENA TRILOBATA	0	203	0	11	0	0	11	0	32	21
TEREBELLIDES STROEMI	0	0	64	139	0	0	11	0	21	245
CHONE AMERICANA	11	896	0	11	43	0	0	64	107	0
MEGALOMMA BIOCLATA	0	0	0	0	0	0	0	0	0	11
POTAMILLA SP.	0	0	0	0	11	0	0	0	0	0
FABRICIA SABELLA	64	715	43	75	21	11	64	5419	789	32
HYPICOMUS PHAEOTONIA	0	0	0	0	11	0	0	0	0	0
SPIROBIS CORRUGATIS	0	0	11	0	0	0	0	0	0	0
HYDROIDES SP.	0	11	0	0	0	0	0	0	0	0
FILOGRANA IMPLEXA	0	1504	0	0	0	0	0	0	0	0
BOGUEA ENIGMATICA	0	395	43	160	0	0	0	0	0	0
BOGUEA SP. A	0	0	21	43	11	11	0	0	203	53
OLIGOCHAETE	192	2432	43	171	427	53	0	235	533	64
GASTROPODA SP.	0	0	0	0	0	0	0	11	21	0
RISSOINA CATESBYANA	0	149	0	0	0	0	0	0	0	0
SAYELLA HEMPHILLI	0	21	0	0	0	0	0	0	0	0
SOLARIORBIS SHIMMERI	0	245	0	149	21	0	0	21	0	0
CAECUM PULCHELLUM	0	1109	0	11	576	11	0	85	0	0
CAECUM SP.	0	53	0	0	32	0	0	0	0	0
DIASTOMA VARIUM	32	1013	0	0	0	0	0	0	0	0
MELANELLA INTERMEDIA	0	0	0	0	0	0	0	0	0	0
STROMBIFORMIS HEMPHILLI	0	0	0	0	11	0	0	0	0	11
CREPIDULA SP.	0	0	0	0	0	0	0	0	0	11
CREPIDULA PLANA	0	576	11	523	427	21	11	53	21	0
CREPIDULA MACULOSA	32	32	0	0	0	0	0	11	53	0
NATICA PUSILLA	0	0	0	0	0	11	0	0	0	0
POLINICES DUPLICATUS	0	0	0	11	0	0	0	0	0	0
MITRELLA LUNATA	0	1163	0	0	11	0	0	0	0	0
ANACHIS OBESA	0	0	0	0	0	0	43	0	0	0

BENTHOS ABUNDANCE BY STATION AND SPECIES

NUMBER PER SQUARE METER
JUNE 1983

SPECIES NAME	31	32	33	34	35	36	37	38	39	40
ANACHIS FLORIDANA	0	21	0	0	0	0	0	0	0	0
CANTHARUS CANCELLARIUS	0	11	0	0	0	0	21	0	0	0
NASSARIUS VIREX	0	0	0	0	0	0	0	21	0	0
OLIVELLA PUSTILLA	0	0	21	11	0	43	21	0	0	85
OLIVA SAYANA	11	0	0	0	0	11	0	0	0	0
GRANULINA OVULIFORMIS	21	0	11	0	0	0	0	32	21	0
MARGINELLA APICINA	0	0	11	0	0	0	0	0	21	11
ODOSTOMIA SP.	0	0	0	11	0	0	0	0	0	0
ODOSTOMIA IMPRESSA	0	96	0	0	0	0	0	0	0	0
ODOSTOMIA BISUTURALIS	43	21	0	0	0	11	0	0	0	0
TURBONILLA SP.	0	11	0	0	0	0	32	0	0	0
TURBONILLA CONRADI	0	0	0	0	0	0	11	0	0	11
TURBONILLA INTERRUPTA	11	0	0	0	0	0	0	0	0	21
ACTEON PUNCTOSTRIATUS	11	32	0	0	11	53	11	11	0	64
ACTEON CANALICULATA	0	21	43	0	0	277	21	43	0	11
HAMINOE SUCCINEA	75	0	0	0	0	0	0	21	0	53
CYLINDROBULLA BEAUII	0	11	0	0	0	0	0	0	11	0
NUDIBRANCHIA SP.	0	0	0	0	0	0	0	0	0	0
DOSINIA DISCUS	0	0	0	0	0	21	0	0	11	0
POLYPLACOPHORA SP.	0	213	0	0	0	0	0	0	0	0
BIVALVIA SP.	0	0	0	21	0	0	43	0	0	0
NUCULA CRENULATA	0	21	21	11	11	117	32	0	43	11
NUCULANA ACUTA	0	0	11	21	11	384	299	11	0	21
ANADARA TRANSVERSA	0	0	0	0	0	0	11	0	0	235
GLYCYMERIS PECTINATA	0	0	0	0	0	11	0	0	0	0
MUSCULUS LATERALIS	0	85	43	75	32	21	0	11	11	0
MODIOLUS AMERICANUS	0	0	0	11	0	0	0	0	0	0
BRACHIDONTES EXOSTUS	0	2101	11	85	139	0	0	11	309	0
AMYGDALUM PAPHIUM	0	21	0	32	21	0	0	64	0	0
CRASSOSTREA VIRGINICA	0	21	0	0	0	0	0	0	0	0
LUCINA NASSULA	0	0	32	0	0	11	0	0	0	0
DIPLODONTA PUNCTATA	0	0	0	0	0	0	0	0	21	0
MYSELLA PLANULATA	96	416	11	64	32	64	96	0	21	107
ALITENA TEXASIANA	11	0	117	288	160	128	96	0	21	64
NEAEROMYA FLORIDANA	0	0	11	0	11	21	43	0	160	501
CARDITAMERA FLORIDANA	0	149	11	11	0	0	0	0	11	0
CRASSINELLA CF. LUNULATA	0	0	0	0	21	0	11	0	0	0
CARDIIDAE SP.	0	0	0	0	0	0	0	0	0	0
LAEVICARDIUM MORTONI	0	43	0	43	85	11	0	0	11	0
TRACHYCARDIUM MAGNUM	11	0	0	0	0	0	0	21	21	0
MULINIA LATERALIS	11	0	21	0	11	0	11	0	0	0
TELLINA VERSICOLOR	11	11	0	11	11	0	11	0	0	32
TAGELUS DIVISUS	0	0	0	53	128	75	11	0	0	107
SEMELE BELLA STRIATA	0	0	0	0	43	64	75	21	0	117
SEMELE PROFICUA	0	75	0	0	0	0	0	0	0	0
SEMELE NUCULOIDES	0	0	0	0	64	0	0	0	0	0
ABRA AEQUALIS	0	0	21	64	192	512	192	0	53	235
CUMINGIA TELLINOIDES VANHYNINGI	21	21	0	11	0	0	0	0	0	0
TRANSENNELLA CONRADINA	0	0	0	11	0	11	0	0	21	0
MERCENARIA CAMPECHIENSIS	0	0	0	11	0	0	0	0	0	11
CHITONE CANCELLATA	0	0	0	0	85	0	0	0	0	0
CHITONE SP.	0	0	0	0	11	0	0	0	0	0
CORBULA CONTRACTA	0	32	0	0	0	0	11	0	0	0

BENTHOS ABUNDANCE BY STATION AND SPECIES

NUMBER PER SQUARE METER
JUNE 1983

SPECIES NAME	31	32	33	34	35	36	37	38	39	40
LYONSIA HYALINA FLORIDANA	11	11	0	32	149	192	75	107	39	40
ASTHENOTHAEUS HEMPHILLI	0	0	0	0	0	43	0	0	32	117
MYODOCOPA SP.	0	224	192	0	149	117	0	21	160	11
PARASTEROPE POLLEX	11	0	768	181	11	0	0	0	213	277
HAPLOCYTHERIDA SETIPUNCTATA	0	0	0	0	0	0	0	0	0	192
CALANOID COPEPODA	0	21	11	64	352	85	21	21	32	203
HARPACTICOID COPEPODA	0	11	0	0	0	11	0	0	0	21
CYCLOPOID COPEPODA	0	0	0	11	779	0	0	0	0	0
BALANUS IMPROVISUS	0	192	0	96	0	0	0	0	0	0
MYSIDOPSIS BAHIA	0	0	0	0	0	0	0	43	21	0
MYSIDOPSIS FURCA	0	0	0	0	0	0	21	0	11	0
MYSIDOPSIS BIGELOWI	0	0	0	11	0	0	0	11	0	0
BOWMANIELLA SP.	0	0	0	0	0	0	0	21	0	0
LEUCON SP. A	0	0	0	0	0	0	0	0	0	0
OXYUROSTYLIS SMITHI	32	0	43	21	32	53	117	107	21	21
ALMYRACUMA SP.	0	0	0	0	32	0	0	0	0	160
CUMELLA SP. A.	32	85	203	53	0	11	0	469	363	0
CYCLASPIS SP. B	0	21	0	0	0	0	0	0	0	0
APSEUDES PROPINQUUS	0	11	0	0	0	0	0	0	0	0
HALMYRAPSEUDES CF. CUBANENSIS	0	21	0	0	0	0	0	0	0	0
KALLIAPSEUDES SP. A	0	0	0	0	21	32	11	32	21	21
HARGERIA RAPAX	0	21	0	0	11	0	0	363	0	0
ANTHURIDAE SP. A	0	0	0	0	0	0	43	0	0	0
APANTHURA MAGNIFICA	0	0	64	0	85	139	0	0	0	0
XENANTHURA BREVITELSON	0	75	0	0	0	0	0	32	53	32
CASSIDINIDEA LUNIFRONS	0	21	0	0	0	0	0	0	0	0
CYMODOCE FAXONI	0	96	0	0	0	0	0	0	0	0
SEROLIS MGRAVI	0	0	0	0	0	0	11	0	0	0
ERICHSONELLA CF. ATTENUATA	0	32	0	0	0	0	0	0	0	0
EDOTEA TRILOBA	0	0	0	0	0	32	0	544	32	0
MUNNA CF. HAYESI	0	0	0	0	0	0	0	0	117	0
AMPELISCA HOLMESI	341	0	107	53	0	171	32	800	117	192
AMPELISCA ABDITA	0	21	32	0	0	0	0	0	32	0
CYMADEUSA COMPTA	0	235	11	0	0	0	0	0	11	0
LEMBOUS SETOSUS	0	0	0	0	0	0	72	0	0	0
LEMBOUS SP.	0	0	11	0	0	0	0	0	0	0
ACUMINODEUTOPUS NAGLEI	0	11	0	0	21	0	43	0	0	32
BATEA CF. CATHARINENSIS	0	0	21	53	0	0	0	0	203	0
CERAPUS SP. A	0	0	0	11	11	0	11	0	0	0
COROPHIUM LACUSTRA	0	459	21	21	21	0	0	0	0	0
ERICHTHONIUS BRASILIENSIS	0	384	11	0	0	0	21	0	0	11
GRANDIDIERELLA BONNIERIDES	0	395	0	0	0	0	0	309	32	0
ELASMOPUS LEVIS	0	416	11	0	0	0	0	0	0	0
MELITA ELONGATA	0	11	0	0	0	0	0	0	0	0
MELITA SP.	0	64	0	21	0	0	0	0	0	0
MELITA LONGISETOSA	21	405	0	0	0	0	0	0	0	0
PHOTIS MELANICUS	0	0	0	0	21	0	0	0	0	0
PHOTIS SP.	0	0	0	0	0	0	0	0	0	0
LEUCOTHOE CF. SPINICARPA	0	11	11	0	0	0	21	0	0	0
LISTRIELLA CF. BARNARDI	21	11	21	32	11	75	11	0	11	0
MONOCULODES NYEI	0	0	11	21	0	43	11	0	53	32
MONOCULODES SP.	11	0	0	0	0	0	32	0	11	43
EUDEVENOPUS HONDURANUS	0	0	0	0	0	32	0	0	0	0

BENTHOS ABUNDANCE BY STATION AND SPECIES

NUMBER PER SQUARE METER
JUNE 1983

SPECIES NAME	STATION	31	32	33	34	35	36	37	38	39	40
STENOTHOE SP.		0	0	0	0	0	0	0	0	11	0
TIRON TRIOCELLATUS		0	0	0	0	32	11	53	0	0	0
ORCHESTIA CF. PLATENSIS		181	11	0	11	0	149	0	0	0	0
PARACAPRELLA TENUIIS		0	149	0	0	32	0	21	0	21	0
OGYRIDES ALPHAIROSTRIS		117	0	75	0	0	0	0	0	53	11
HIPPOLYTE PLEURACANTHUS		0	11	0	0	0	0	0	0	0	0
LATREUTES PARVULUS		0	0	0	0	0	11	0	0	0	0
UPOGEBIA AFFINIS		0	0	0	0	0	0	32	0	0	0
PAGURIDAE SP.		0	0	0	0	21	0	21	64	11	0
PAGURUS BREVIDACTYLUS		0	75	0	0	11	0	0	0	0	0
PAGURUS MACLAUGHLINAE		0	53	0	0	0	0	0	0	0	0
BRACHYURA SP. (JUV.)		0	11	0	0	0	0	0	11	0	0
PAETHENOPIIDAE SP.		0	11	0	11	0	0	11	0	0	32
PORTUNUS GIBBESII		0	11	0	0	0	0	0	0	0	0
XANTHIDAE SP.		0	0	0	0	11	0	0	0	0	0
NEOPANOPE TEXANA TEXANA		0	192	0	0	32	0	0	0	0	0
PANOPEUS HERBSTII		0	128	0	0	0	0	0	0	0	0
PANOPEUS HERBSTII F. SIMPSONI		0	43	0	0	0	0	0	0	0	0
PINNOOTHERIDAE SP.		0	0	0	11	0	0	0	0	0	0
PINNIXA CHAETOPTERANA		11	0	11	21	32	11	53	11	64	32
PINNIXA PEARSEI		0	0	0	0	11	0	0	0	0	0
SIPUNCULA SP.		0	11	107	11	0	0	0	0	0	0
PHASCOLION SP.		0	11	0	21	0	0	0	0	11	0
PHORONIS ARCHITECTA		21	0	21	32	11	0	32	0	117	0
BRYOZOA SP. = ECTOPROCTA		32	0	53	53	0	21	0	0	0	0
GLOTTIDIA PYRAMIDATA		0	32	0	11	0	0	0	11	21	0
OPHIOLEPIS ELEGANS		0	0	0	0	64	32	11	0	0	0
OPHIOLEPIDAE SP.		0	0	0	0	11	0	11	0	0	0
AMPHIURIDAE SP.		0	0	0	0	11	0	21	0	0	0
AMPHIPHOLIS GRACILLIMA		0	0	11	0	0	11	11	0	0	0
OPHIOPHRAGMUS FILOGRANEUS		53	0	0	0	0	11	0	0	0	85
AMPHIOPLUS ABDITUS		21	0	43	75	0	0	0	0	0	0
AMPHIOPLUS THROMBOIDES		0	0	11	0	0	0	0	0	32	0
AXIOGNATHUS SQUAMATUS		0	0	0	21	0	0	0	0	0	0
AMPHICHILUS VERRILLI		0	0	0	0	0	0	0	0	0	0
AMPHICHILUS DALEUS		11	0	11	0	0	0	11	0	0	11
AMPHICHILUS INCISUS		0	0	75	0	0	0	0	0	0	0
HOLOTHUROIDEA SP.		0	0	0	0	0	0	0	0	0	0
HOLOTHUROIDEA SP. A		0	11	0	0	32	0	32	0	0	0
ASCIDIACEA SP.		0	21	0	0	0	0	0	0	0	0
MYROPHIS PUNCTATUS		11	0	0	0	0	0	43	0	0	0
MICROGOBIOUS GULOSUS		0	0	0	0	0	0	11	0	0	11

TOTAL DENSITY

4245 28032 6784 7392 9877 5035 61.3 12139 9611 10261

TOTAL NUMBER OF SPECIES

71 131 89 105 111 77 113 61 102 94

SPECIES NAME	1	2	3	4	5	6	7	8	9	10
PYROZOA SP.	.	.	.	21	0	.	11	.	0	.
AUREARIA	.	.	.	21	0	.	0	.	11	.
STICTIS SP.	.	.	.	11	0	.	11	.	11	.
NEMERTINA SP.=RHYNCHOCELA	.	.	.	117	75	.	32	.	469	.
NEMATODA	.	.	.	0	0	.	0	.	288	.
POLYPOD GENUS D.	.	.	.	0	0	.	11	.	0	.
THERESITANIRA INCISA	.	.	.	0	0	.	0	.	11	.
PHYLLOPORACEA CASTANEA	.	.	.	0	0	.	0	.	21	.
PHYLLOPORACEA ARENAE	.	.	.	0	0	.	0	.	21	.
EUDORAE HETEROPODA	.	.	.	32	21	.	21	.	0	.
EUDORAE SANGUINEA	.	.	.	0	0	.	0	.	0	.
GALITS BREVIPALPA	.	.	.	0	11	.	11	.	213	.
PAPAROSTONE LUTEOLA	.	.	.	11	11	.	0	.	11	.
PAPARDALIA AMERICANA	.	.	.	53	64	.	0	.	0	.
ANTOXYLUS DENTALIUS	.	.	.	0	0	.	11	.	0	.
TRICRYLLIS SP.	.	.	.	0	0	.	0	.	0	.
ENDOCOE DISPAR	.	.	.	11	0	.	0	.	21	.
EUDORAE LOUREI	.	.	.	0	0	.	0	.	395	.
SPHAEROSYLLIS SPP.	.	.	.	0	0	.	0	.	75	.
SPHAEROSYLLIS TAYLORI	.	.	.	0	0	.	11	.	0	.
FIBIPALTA CORNUATA	.	.	.	0	0	.	0	.	11	.
NEAETHES SUCCINEA	.	.	.	0	0	.	0	.	75	.
NEPTIS SP.	.	.	.	11	0	.	32	.	21	.
GENERA SP.	.	.	.	0	0	.	0	.	11	.
GLYCOPH SOLITARIA	.	.	.	0	0	.	0	.	11	.
DIOFAIRA CUPREA	.	.	.	0	0	.	0	.	43	.
KIEBERGNIPIH'S SIMONI	.	.	.	0	0	.	21	.	0	.
MARTINSA SANGUINEA	.	.	.	0	0	.	11	.	64	.
LUMPRNERIS VERRILI	.	.	.	11	11	.	0	.	11	.
EPITHIEREIS LONGA	.	.	.	0	0	.	149	.	1131	.
SCHUSTOMERINGOS RUDOLPHI	.	.	.	0	0	.	0	.	0	.
HALLICOLOPLOS FOLIOSUS	.	.	.	21	11	.	21	.	11	.
HALLICOLOPLOS FRAGILIS	.	.	.	85	107	.	117	.	75	.
HALLICOLOPLOS SP.	.	.	.	0	0	.	0	.	75	.
SCOLOPLOS RUBRA	.	.	.	53	21	.	171	.	75	.
SCOLOPLOS SP.	.	.	.	0	0	.	0	.	11	.
APICHEA PHILIRINAE	.	.	.	427	120	.	491	.	53	.
APICHEA TAYLORI	.	.	.	53	53	.	459	.	267	.
APICHEA SP.	.	.	.	11	0	.	0	.	0	.
CETTERIDRUS LYRA	.	.	.	0	0	.	0	.	299	.
CETTERIDRUS CF. FORTICIRRATUS	.	.	.	0	0	.	0	.	11	.
POLYDORA FLONA	.	.	.	0	0	.	11	.	0	.
POLYDORA SOCIALIS	.	.	.	0	0	.	0	.	43	.
CRINOPOPIO HETEROBRANCHIA	.	.	.	0	0	.	0	.	85	.
SCOTIANES BOMBIX	.	.	.	0	0	.	0	.	11	.
PAPARONOSPPIO PINNATA	.	.	.	0	0	.	11	.	107	.
SEPLEPOPIO BENEDICTII	.	.	.	576	267	.	949	.	32	.
AMBIPHIONOSPPIO PYGMAEA	.	.	.	0	0	.	0	.	11	.
SCUTLEPIDIS TEXANA	.	.	.	0	21	.	75	.	11	.
SCUTLEPIDIS SCAMMATA	.	.	.	0	0	.	0	.	11	.
MANTONA PETTIBONEAE	.	.	.	0	0	.	21	.	21	.
SPHOHALOPTERUS C. OCULATUS	.	.	.	0	0	.	75	.	11	.
CAHIETELLA SP.	.	.	.	0	0	.	0	.	85	.

BENTHOS ABUNDANCE BY STATION AND SPECIES

NUMBER PER SQUARE METER
JULY 1983

SPECIES NAME	1	2	3	4	5	6	7	8	9	10
THALASSIA ANNULOSA				181	0		277		299	
CHLOROPHONIA SETOSA				0	0		0		21	
ABYSSINIA MACULATA				21	0		0		0	
CALLISTELLA CAPITATA				64	75		0		21	
HYDROMASTUS FILIFORMIS				21	0		0		0	
MELITOMASTUS AMBISETA				1280	864		384		1952	
A. TOTELLA SP. A				0	11		0		0	
ORONOTA FUSIFORMIS				0	0		0		21	
MYLIOCHETE OCULATA				0	0		11		363	
PECTINARIUS GOULDII				0	0		0		32	
AMPHICELIS GUNNERI				21	0		0		0	
PUSA CRISTATA				0	0		0		53	
PROCEPUS SP.				0	0		0		53	
BOLEOPUS SETOSUS				0	0		0		11	
LOIMIA MEDUSA				0	0		0		21	
ORONOTA AMERICANA				21	0		11		11	
MEGALOPOMA BIOCULATA				11	0		0		11	
EURELIA SABELLA				11	0		0		128	
RECTOR'S DIANTHUS				0	0		0		21	
BOCCA UNIGRATICA				0	0		0		85	
OR. EUCRATE				0	0		0		384	
CALYPTOM SP.				437	267		235		85	
DIASOMA VARIUM				0	0		0		0	
CEPHALOPODA PLANA				0	0		11		0	
CEPHALOPODA MACULOSA				0	0		0		32	
NEPHELE LUNATA				0	0		21		0	
NEPHELE VIREX				11	0		43		11	
OR. EVELLA SP.				0	0		0		21	
GRABIELLA OVULIFORMIS				0	0		11		11	
MARSHALLIA APICINA				0	0		11		0	
OR. STOMIA IMPRESSA				0	0		0		11	
TRIPLODIA SP.				0	0		21		0	
TRIPLODIA CONRADI				0	0		32		0	
ACTEON PUNCTOSTRIATUS				11	21		11		21	
ACTEON CANALICULATA				0	0		11		21	
HAMMUS SUCGINEA				0	32		107		32	
TRIPLODIA CRENULATA				0	0		0		43	
TRIPLODIA ACUTA				0	0		0		96	
BRACHIONIDUS EXOSTUS				0	0		0		448	
AMPHICELUS PAPYRIUM				0	0		21		0	
NEPHELE FLAMULATA				0	11		11		75	
TRIPLODIA VERSICOLOR				11	53		11		32	
PAPILLARIA TRIQUERTA				21	0		0		0	
TRIPLODIA HYALINA FLORIDANA				0	0		11		64	
MACRODOPA SP.				11	0		11		21	
PAPILLARIA POLLEX				0	0		0		96	
MACRODOPA SPP.				11	0		0		0	
CALAMIDUS COPEPODA				128	21		53		320	
PARALANUS IMPROVISUS				0	0		0		789	
CALLINELLA SP. A				11	11		53		11	
HALINERAPSEIDES CF. CUBANENSIS				19435	11		0		0	
PALLASSEUS SP. A				0	0		11		21	
ACTEONIA MAGNIFICA				0	0		43		0	

BENTHOS ABUNDANCE BY STATION AND SPECIES

3

NUMBER PER SQUARE METER
JULY 1983

SPECIES NAME	1	2	3	4	5	6	7	8	9	10
SPINULIURA BREVITELSON				75	0		0		0	
ERICHSONIELLA CF. ATTENUATA				0	0		11		0	
FIOLIA MONTOSA				0	0		11		0	
FIOLIA TRILOBATA				21	0		0		11	
AMPHIELISCA HOLMESI				21	0		64		128	
AMPHIELISCA AGASSIZI				85	11		0		0	
AMPHIELISCA ABDITA				3531	21		0		43	
AMPHIELISCA SP. A				0	0		11		0	
PALEA CF. CATHARINENSIS				0	0		53		0	
ZOOECIUM LACUSTRA				53	0		32		21	
ESCHERICHUS BRASILIENSIS				0	0		85		0	
GRANULIFERELLA BONNIEROIDES				11	0		0		0	
MELITA FLONGATA				139	85		0		0	
MICROGASTROPUS RANEYI				11	53		0		0	
LETRITELLA CF. BARNARDI				0	11		0		0	
PAPACAPRILLA TENJIS				0	0		11		0	
LEPTOGHEIA SERRATORBITA				0	0		0		11	
ALTHEUS FLORIDANUS				11	0		0		0	
OSGELDES ALPHEROSTRIS				0	0		0		11	
LEPTOGHEIA AFFINIS				21	0		0		0	
PAGURUS MACLAUGHLINAE				0	0		0		11	
PRAGMADURA SP. (JUV.)				32	21		11		11	
NEOMARPE TEXANA TEXANA				0	0		11		0	
LYMPSEA CHAETOPTERANA				0	0		0		11	
PLASCOLEON SP.				0	0		11		0	
LECHURA SP.				11	0		0		0	
PIRONTIS ARCHITECTA				0	0		11		21	
ORCHIDHRAGMUS FILOGRANEUS				0	0		11		0	
AMPHIOPLUS ABDITUS				0	0		11		0	
LEPTOGHEIIDAE SP.				0	0		0		11	
MELICOGRIUS GULOSUS				0	11		0		0	

TOTAL DENSITY

27253 3381 4523 10272

TOTAL NUMBER OF SPECIES

90

RENTHOS ABUNDANCE BY STATION AND SPECIES

NUMBER PER SQUARE METER
JULY 1983

SPECIES NAME	11	12	13	14	15	16	17	18	19	20
NEORHODOPHYTES SP. A		11	0		0		0	0		0
NEORHODOPHYTES PINNATA		11	0		117		0	21		224
NEORHODOPHYTES BENEDICTII		0	11		576		11	64		1355
NEORHODOPHYTES PYGMAEA		32	0		0		0	0		11
NEORHODOPHYTES TEXANA		0	0		11		0	11		11
NEORHODOPHYTES PETTIBONEAE		0	11		0		0	0		32
NEORHODOPHYTES C. OCULATUS		43	0		53		11	0		0
NEORHODOPHYTES ANNULOSUS		96	0		0		0	0		0
NEORHODOPHYTES CAPITATA		85	85		363		4341	32		107
NEORHODOPHYTES FILIFORMIS		0	53		21		427	128		11
NEORHODOPHYTES LATERICEUS		0	0		0		235	0		11
NEORHODOPHYTES AMBISETA		245	0		32		0	0		0
NEORHODOPHYTES CALIFORNIENSIS		0	11		480		64	213		224
NEORHODOPHYTES SP. A		85	11		0		0	75		0
NEORHODOPHYTES OCULATA		107	0		85		0	0		0
NEORHODOPHYTES GUNNERI		0	0		0		11	0		0
NEORHODOPHYTES PULCHRELLA		21	0		0		0	0		0
NEORHODOPHYTES CRISTATA		11	0		0		0	0		0
NEORHODOPHYTES MEDUSA		181	0		0		0	0		0
NEORHODOPHYTES AMERICANA		32	224		11		64	32		11
NEORHODOPHYTES SABELLA		11	523		0		11	0		32
NEORHODOPHYTES SP.		11	0		0		0	0		0
NEORHODOPHYTES GORDIUS		11	21		107		480	395		117
NEORHODOPHYTES GORDIUS		0	11		0		0	0		0
NEORHODOPHYTES FUSCA		0	0		0		0	0		0
NEORHODOPHYTES SHIMERI		0	0		0		11	11		0
NEORHODOPHYTES FULCHELLUM		11	0		0		0	0		0
NEORHODOPHYTES SP. A		11	0		0		0	0		0
NEORHODOPHYTES DUPLICATUS		11	0		0		0	0		0
NEORHODOPHYTES LUNATA		0	0		0		43	0		0
NEORHODOPHYTES VIBEX		0	0		11		0	21		0
NEORHODOPHYTES PUSILLA		64	0		0		0	0		0
NEORHODOPHYTES OVULIFORMIS		0	21		0		0	0		0
NEORHODOPHYTES APICINA		11	0		0		0	0		0
NEORHODOPHYTES SP.		0	0		11		0	0		0
NEORHODOPHYTES SP.		0	0		11		0	0		0
NEORHODOPHYTES CONRADI		0	0		11		0	0		0
NEORHODOPHYTES CANALICULATA		0	0		0		0	0		11
NEORHODOPHYTES SUCCINEA		0	85		0		85	53		21
NEORHODOPHYTES SP.		21	0		0		0	11		32
NEORHODOPHYTES SP.		11	0		0		0	0		0
NEORHODOPHYTES SP.		11	0		11		0	0		0
NEORHODOPHYTES ACUTA		64	0		0		0	0		0
NEORHODOPHYTES PAPHIUM		11	0		0		0	0		0
NEORHODOPHYTES PUNCTATA		11	0		0		0	0		0
NEORHODOPHYTES FLANDULA		32	11		0		0	0		0
NEORHODOPHYTES VERSICOLOR		32	0		11		0	0		32
NEORHODOPHYTES TENUISS		21	0		0		0	0		0
NEORHODOPHYTES TRIQUETRA		0	11		0		0	0		0
NEORHODOPHYTES ANTILLENIS		11	0		0		0	0		0
NEORHODOPHYTES FLORIDANA		32	0		0		0	0		0
NEORHODOPHYTES SP.		117	21		11		11	0		11
NEORHODOPHYTES POLLEX		11	0		0		0	11		11
NEORHODOPHYTES COPEPODA		11	21		53		96	129		96

BENTHOS ABUNDANCE BY STATION AND SPECIES
NUMBER PER SQUARE METER
JULY 1983

SPECIES NAME	11	12	13	14	15	16	17	18	19	20
HARPACTICOID COPEPODA		0	0		0		32	0		0
BOWMANIELLA SP.		0	21		0		0	0		0
OXYURUSSTYLIS SMITHI		11	0		0		0	0		0
CIRRELLA SP. A.		0	0		21		0	0		0
CYCLAPTES SP. B		64	0		0		11	0		0
HALMAGAPSEUDES CF. CUBANENSIS		0	0		0		11	0		11
KALLAPSEUDES SP. A		32	0		0		0	21		0
APANTHERA MAGNIFICA		0	21		0		0	0		11
XENANTHERA BREVITELSON		0	32		0		480	0		0
EMIDEA TRILOBEA		0	0		0		11	0		0
AMPELISCA HOLMESI		21	213		0		0	21		0
AMPELISCA ABDITA		0	0		0		32	11		0
ACIRINOPUTOPUS NAGLEI		21	0		0		0	0		11
LEUCOTHOE C. SPINICARPA		0	0		0		0	0		0
LEUCITELLA CF. BARNARDI		11	0		11		0	0		11
LIVIDIFAXONI		0	0		11		0	0		0
LEPTOCHELA SERRATORBITA		11	0		0		0	0		0
DESMIDES ALPHAEOSTRIS		0	0		139		0	0		64
UNIONELLA AFFINIS		11	0		0		0	0		11
PAGURUS BREVIDACTYLUS		0	0		0		0	0		0
PAGURUS CAROLINENSIS		64	11		0		0	0		0
PAGURUS SP.		64	0		0		0	0		0
EPACHEURA SP. (JUV.)		21	53		11		21	32		11
XANTHODAE SP.		0	11		0		0	11		0
PANTHUS HERBSTII		0	0		0		0	11		0
PHOTOPANOPEUS HARRISII		0	0		0		21	11		0
PIPERIDIIDAE SP.		21	11		0		0	0		0
STEURGULA SP.		32	0		0		0	0		0
ELIASERION SP.		0	0		11		0	21		0
AMPHIROIDE SP.		11	0		0		0	0		0
MICROGRIPIUS GULOSUS		0	0		11		0	0		0
CERITHIUM MUSCARUM		0	0		0		43	0		0
TOTAL DENSITY	3008	2421	14923	3157	3307	6923				
TOTAL NUMBER OF SPECIES	72	40	40	40	36	38				

BENTHOS ABUNDANCE BY STATION AND SPECIES

NUMBER PER SQUARE METER
JULY 1983

SPECIES NAME	21	22	23	24	25	26	27	28	29	30
FORJERA SP.		0			0	0	0		0	30
HYDROZOA SP.		11			0	11	0		0	11
ATHAMIA		0			11	11	11		0	0
ATHAMIA SP.		43			0	0	0		0	0
STYLOCHUS SP.		0			21	0	64		21	21
TELEOSTOMA SP.		0			11	0	0		0	11
MYMECTON SP. = RHYNCHOCOELA		288			53	267	117		160	64
MYMECTON		256			3211	640	427		245	1504
POLYDORUS LUTINA		0			11	0	0		0	0
STREPTOCEPHALUS OBLIQUIS		0			75	21	0		0	0
STREPTOCEPHALUS INCISA		0			32	0	0		0	32
PALAMINUS SP. B		0			43	64	0		0	0
PHYLLODICE ARENAE		11			21	11	11		53	64
PHYLLODICE SP.		0			0	0	0		0	11
PLEURONETUS SP.		0			0	11	11		11	0
EURALIA SANGUINEA		0			0	11	0		0	0
GYTTIDAE REVIPALPA		21			21	0	0		21	0
PALAMINUS LUTEOLA		0			0	0	11		0	0
AMPHIRODUS HARTMANAE		0			0	21	0		0	0
AMPHIRODUS SP. A		0			21	0	0		0	0
AMPHIRODUS SP.		11			0	0	0		0	0
AMPHIRODUS CF. LUTEA		0			0	0	85		0	0
AMPHIRODUS SP.		53			0	32	181		0	32
AMPHIRODUS DISPAR		11			21	11	43		11	21
AMPHIRODUS LOUREI		0			43	0	21		0	0
AMPHIRODUS SPP.		43			43	0	21		11	0
AMPHIRODUS TAYLORI		0			0	53	0		0	0
ERANIS SP. A		0			0	0	0		0	0
FRANIA SP.		0			32	0	0		0	0
BRANIA WELFLEETENSIS		0			43	32	0		0	0
BRANIA CORNUTA		11			11	43	0		11	0
DEUTERODUS ENOPLA		0			0	11	0		0	0
STREPTODUS PETIBONEAE		0			11	0	75		0	0
NEPTIDAE SP.		0			64	0	0		0	0
CEPHALOPUS IRRATABILIS		0			139	96	0		0	0
NEPTIDUS MICROMMA		32			96	21	0		0	21
NEPTIDUS SUCCINEA		0			0	0	128		0	0
NEPTIDUS SIMONI		0			43	53	0		0	0
AGLADIUM VERRILLI		0			11	0	0		0	0
GLYCEA AMERICANA		11			0	53	0		0	0
GLYCEA SP.		0			0	11	0		0	0
GLYCEA DIBRANCHIATA		0			0	11	0		0	11
GLYCEA SOLITARIA		0			0	0	0		0	32
GLYCEA CAROLINAE		0			1077	512	0		0	0
GLYCEA SP.		0			0	11	0		0	0
GLYCEA SP.		64			0	0	0		75	53
GLYCEA SP.		1013			160	181	32		1387	363
GLYCEA SP.		21			0	32	0		43	0
GLYCEA SP.		11			0	0	0		0	0
GLYCEA SP.		11			21	11	0		0	11
GLYCEA SP.		0			0	0	53		0	0
GLYCEA SP.		32			53	11	96		32	43
GLYCEA SP.		53			21	11	11		85	0
GLYCEA SP.		0			11	11	0		0	0

BENTHOS ABUNDANCE BY STATION AND SPECIES
NUMBER PER SQUARE METER
JULY 1983

SPECIES NAME	21	22	23	24	STATION	26	27	28	29	30
ARCTICHA PHILIRINAE		299			25	32	1269		85	107
ARCTICHA TAYLORI		779			21	128	256		1440	75
ARCTICHA CF. CATHARINAE		64			171	53	0		0	21
CIRRIIDAE LYPHA		0			32	480	11		43	0
CIRRIIDAE CF. FORTICIRRATUS		0			480	64	0		0	0
CIRRIIDAE FURCATUS		139			53	0	0		0	0
FAVITE CIRRATA		0			0	0	0		0	0
FAVITE SOCIALIS		0			0	11	0		0	0
FAVITE WEBSTERI		0			11	11	0		0	0
FAVITE HETEROBANCHIA		11			0	0	0		64	0
FAVITE CRISTATA		0			0	21	480		128	0
FAVITE CIRRIFERA		21			0	32	0		0	0
FAVITE LITIGONEAE		0			0	0	0		0	0
FAVITE S. HOMBX		11			0	21	0		0	0
FAVITE POLYDURA SP. A		0			21	0	0		0	0
FAVITE POLYDURA SP. A		160			1504	192	11		0	0
FAVITE BENEDICTI		171			0	0	0		0	171
FAVITE PYGMAEA		0			0	0	21		0	0
FAVITE TEXANA		75			11	21	0		0	11
FAVITE CIRRIFERA		0			0	0	11		75	0
FAVITE PETIBONEAE		0			21	0	0		0	0
FAVITE JOHNSONI		11			11	0	0		43	0
FAVITE C. OCULATUS		11			11	107	0		11	0
FAVITE SP.		11			21	21	0		0	0
FAVITE ANNULOSUS		693			0	53	0		0	75
FAVITE SETOSA		0			437	43	683		704	139
FAVITE HOBSONAE		0			0	107	0		0	0
FAVITE CAPITATA		0			0	21	0		0	0
FAVITE FILIFORMIS		0			0	0	277		0	0
FAVITE LATERICEUS		0			0	32	11		0	0
FAVITE SP.		0			85	0	0		11	32
FAVITE AMBIESETA		555			0	11	0		0	0
FAVITE CALIFORNIENSIS		0			533	501	11		0	427
FAVITE SP.		0			0	21	0		0	0
FAVITE ELONGATA		0			0	0	0		0	0
FAVITE TORQUATA		32			0	0	0		480	0
FAVITE SP. A		0			0	0	0		32	11
FAVITE MUCOSA		0			0	0	0		32	0
FAVITE CF. SP. B		32			75	0	117		0	11
FAVITE FUSIFORMIS		21			0	0	21		0	0
FAVITE OCULATA		117			587	53	0		0	11
FAVITE SP.		0			11	0	0		11	267
FAVITE CRISTATA		11			0	0	0		0	0
FAVITE SP.		75			53	0	0		0	0
FAVITE MEDUSA		11			0	0	0		0	53
FAVITE EPILOBATA		0			203	107	0		0	0
FAVITE AMERICANA		0			21	32	160		0	0
FAVITE RENIFORMIS		0			0	128	587		43	0
FAVITE SABELLA		43			0	107	11		0	0
FAVITE DIANTHUS		21			0	0	32		0	107
FAVITE ENIGMATIC		0			0	0	0		0	0
FAVITE SP. A		0			0	0	0		0	21
FAVITE		288			501	224	1035		299	85

BENTHOS ABUNDANCE BY STATION AND SPECIES

NUMBER PER SQUARE METER
JULY 1983

SPECIES NAME	21	22	23	24	25	26	27	28	29	30
COLARTOPTIS SHIMERI		0			0	0	0		11	0
DIASOMA VARIUM		0			0	0	21		0	0
CREPIDULA MACULOSA		0			0	0	149		0	0
MITRELLA LUNATA		0			0	0	32		0	0
CANTHARUS CANCELLARIUS		0			0	11	0		0	0
NACIARIUS VIBEX		11			0	0	21		32	21
ORIVELLA PUSILLA		0			0	0	0		0	75
MAGNIFELLA APICINA		0			11	0	75		0	64
ONUSTOMIA IMPRESSA		0			0	0	11		0	0
THURONELLA SP.		0			32	0	0		0	0
THURONELLA CONRADI		0			0	0	0		0	11
THURONELLA INTERRUPTA		0			0	21	0		11	11
ACTEOLINA CANALICULATA		21			32	0	21		0	32
HAMINAE SUCCINEA		21			0	0	0		21	0
APLYSIDAE SP.		0			0	0	11		0	0
REVALVIA SP.		0			32	0	0		0	0
REVALVIA CRENULATA		21			11	43	0		0	0
THURONELLA ACUTA		0			96	213	0		0	11
DEFLEONIA FUNGATA		0			96	53	0		0	0
MESSELLA PLANULATA		21			32	107	32		11	53
ALAGELLA TEXASIANA		11			0	0	0		21	0
NEAROMYIA FLORIDANA		0			256	0	0		0	0
ENGLELLIPS SP.		0			0	11	0		0	0
GRACINELLA CF. LUNULATA		0			11	64	0		0	0
TELLINA SP.		0			43	0	0		0	32
TAGELLUS DIVISUS		0			11	11	0		0	0
SEPIE BELLASTRIATA		0			11	0	0		0	0
APRA AEGUALIS		0			0	0	11		0	11
TRAPANETIA CONRADINA		0			0	11	0		0	0
CONRADA CONTRACTA		0			0	0	11		0	21
LYOPETA HYALINA FLORIDANA		11			11	0	0		0	0
ASTHODIAERUS HEMPHILLI		0			171	192	139		0	64
MYODOPODA SP.		0			0	11	0		32	43
PARAGLEPOPE POLLEX		85			0	0	21		0	0
PODOPOPE SPP.		0			0	11	0		0	128
CAIAPHES COPEPODA		64			192	75	0		96	11
HABDATTICOID COPEPODA		0			0	0	0		0	21
HALARUS IMPROVISUS		0			0	0	32		0	0
MYCTOPUS FURCA		11			0	11	0		0	0
OSERGOLYLIS SMITHI		0			0	32	11		0	0
COELAPTIS SP. B		0			11	96	0		0	0
VAUTHOMPSONIA SP.		0			11	0	0		0	0
HAEMAPHYSOES CF. CUBANENSIS		0			0	0	43		43	53
APARTHERA MAGNIFICA		0			0	0	0		21	0
FRITTEPORRELLA CF. ATTENUATA		0			0	0	43		0	0
EGGIA TRILOBA		0			0	0	0		0	32
ARALITICA HOLMESI		75			256	43	11		320	21
ARALITICA APOITA		0			0	0	32		21	32
CAMALUCA COMPTA		0			0	0	427		0	0
ACUMINOTOPUS NAGLEI		11			0	21	21		0	21
REIDARDANUS LAMINOSA		0			0	11	0		0	0
RAITA CF. CATHARINENSIS		0			0	0	11		0	0
CEPAEUS SP. A		0			21	21	0		0	0

BENTHOS ABUNDANCE BY STATION AND SPECIES

4

NUMBER PER SQUARE METER
JULY 1983

SPECIES NAME	21	22	23	24	STATION	26	27	28	29	30
CONCHITUM LACUSTRA		0			25	11	0		0	30
FRICITIONUS BRASILIENSIS		0			11	0	85		0	0
URZILLA SERRATA		0			0	11	0		0	0
GRABITIFRELLA BONNIEROIDES		0			0	0	245		0	0
MELITA ELONGATA		0			0	0	11		11	0
FRIEIS MELANICUS		0			0	32	0		0	0
LIORHINUS CF. SPINICARPA		0			0	0	352		0	11
LEPTILLA CF. BARNARDI		32			96	53	32		11	43
EURYVENUS HONDURANUS		0			11	21	0		0	0
PALMAREPPELLA TENJIS		0			11	0	0		0	0
PEREIMENES LONGICAUDATUS		11			0	0	0		0	0
ALTHEUS FLORIDANUS		0			0	21	0		0	0
OPALIDUS ALPHEROSTRIS		32			0	0	0		0	0
HEPHELYTE PLEURACANTHUS		0			0	0	32		0	0
PACRURUS SP.		0			21	64	11		11	0
PACRURUS PREVIDACTYLUS		0			0	0	0		0	0
PACRURUS CAROLINENSIS		0			0	0	0		0	0
PACRURUS LONGICARPUS		0			0	21	0		0	0
BRACHYURA SP. (JUV.)		0			0	0	0		32	0
PACRURUS SP.		0			32	0	53		11	0
PACRURUS GIBBESII		0			0	11	0		0	0
PACRURUS HERBSTII		0			0	0	11		11	0
PHILIPPOPEUS HARRISII		0			0	0	32		0	0
PHILIPPOPEUS SP.		11			43	64	0		11	11
PHILIPPOPEUS SP.		0			0	11	0		0	0
PHILIPPOPEUS SP.		0			149	0	0		0	0
PHILIPPOPEUS SP.		0			0	11	0		0	0
PHILIPPOPEUS SP.		0			53	0	0		0	21
PHILIPPOPEUS SP.		0			181	11	0		0	0
PHILIPPOPEUS SP.		0			0	11	0		0	0
PHILIPPOPEUS SP.		0			11	0	0		0	0
PHILIPPOPEUS SP.		0			11	43	0		0	0
PHILIPPOPEUS SP.		0			0	0	43		0	0
TOTAL DENSITY	6112				12288	6357	9312		6933	4864
TOTAL NUMBER OF SPECIES	61				86	93	71		52	61

BENTHOS ABUNDANCE BY STATION AND SPECIES

NUMBER PER SQUARE METER
JULY 1983

SPECIES NAME	31	32	33	34	STATION	36	37	38	39	40
ALUMINARIA	11		11		35		0			
SYLICHUS SP.	96		11		85		21			
NEOMETEIA SP. = RHYNCHOCOELA	971		331		235		341			
NEMATODA	1440		885		843		363			
LEPTODONTUS SUBLEVIS	0		11		0		0			
PODOPUS GENUS D	0		96		0		0			
STREPTALIS SP.	0		0		0		11			
STREPTALIS OBLIQUIS	0		149		0		85			
STREPTALIS ROA	0		11		0		0			
PAPAMITHRONE SP. B	0		0		32		32			
PHYLLODOCE CASTANEA	0		0		11		11			
PHYLLODOCE ARENAE	43		32		75		32			
ETHEME HETEROPODA	32		21		11		11			
FIJALIA SANGUINEA	213		0		171		96			
GOPUS BRIVIPALPA	0		96		32		0			
GOPUS VITATA	21		0		0		0			
LAPAREGIONE LUTEOLA	64		43		0		0			
AMPHISTEOSYLLIS HARTMANAE	0		0		0		11			
AMPHISTEOSYLLIS GROENLANDICA	0		0		0		11			
LYOSYLLIS SP.	0		21		0		0			
LYOSYLLIS CF. LUTEA	416		11		0		0			
EXOGONE DISPAR	213		341		64		11			
EXOGONE LOUREI	0		0		11		0			
SPHAEROSYLLIS SPP.	96		0		21		0			
SPHAEROSYLLIS TAYLORI	85		64		75		11			
EPANTIA WELFLEETENSIS	0		0		0		21			
EPANTIA CORNUTA	107		32		11		32			
ORONOSYLLIS ENOPLA	11		0		11		0			
SALPES FLORIDANUS	0		0		11		11			
SYLICHUS PETTIBONEAE	0		0		0		0			
PAPALOTOSYLLIS LONGICIRRATA	0		0		0		11			
NEPTIDAE SP.	0		21		0		0			
CEPATOPODETS IRRATABILIS	32		11		0		160			
NEPTIDUS MICROGMA	0		0		32		32			
NEPTIDUS SUCGINEA	43		0		0		11			
NEPTIDUS SP.	11		0		0		0			
NEPTIDUS CULVERI	0		0		0		11			
NEPTIDUS SIMONI	0		0		0		96			
ALCANTARUS VERRILLI	0		11		0		0			
GLYPTA DIBRANCHIATA	0		43		0		0			
DIPTERUS ROSEUS	0		0		0		0			
GLYPTA SOLITARIA	213		0		139		0			
GONANTDES CAROLINAE	0		75		11		0			
ORONOTUS SP.	0		11		1088		299			
KIRBYGONOPHIS SIMONI	203		64		11		11			
FLORIDAE SP.	0		0		11		0			
FLORIDAE SP. B	0		32		0		0			
FLORIDAE SP. VERRILLI	21		608		75		416			
FLORIDAE SP. D	0		64		0		32			
FLORIDAE SP. LONGA	11		11		11		32			
ARABIA MUIANS	11		0		11		0			
ARABIA TRICOLOR	21		0		0		11			
PODOPUS SOCIABILIS	0		11		0		0			

BENTHOS ABUNDANCE BY STATION AND SPECIES

NUMBER PER SQUARE METER
JULY 1983

SPECIES NAME	31	32	33	34	35	36	37	38	39	40
PELIPORIDIA SP. A	0		53		0		11			
DELIIDAE SP.	43		0		0		0			
HAPLODOLOPLOS FOLIATUS	0		21				0			
HAPLODOLOPLOS FRAGILIS	21		32		11		0			
HAPLODOLOPLOS SP.	0		0		0		32			
SCOLOPLOS RUBRA	256		11		0		96			
OSTICOLA PISERII	0		0		0		21			
OSTICOLA AMERICANA	0		0		11		0			
ARTICIDA PHILBINAE	608		256		0		21			
ARTICIDA TAYLORI	149		267		128		85			
ARTICIDA CF. CATHERINAE	0		11		11		75			
CIPRODORUS LYRA	0		85		213		299			
CIPRODORUS SP.	0		53		0		0			
FORAMINA SOCIALIS	0		32		0		11			
FORAMINA WEBSTERI	64		0		0		0			
PROTEROPUS HETEROBANCHIA	32		21		11		0			
SPIO LITTORNEAE	11		0		235		11			
SEPIOPHANES BOMBYX	0		11		43		11			
SEPIOPHANES WIGLEYI	0		0		0		11			
PSEUDOPOLYDORA SP. A	0		43		0		64			
PARALIMNOSPION PINNATA	64		64		0		43			
STREPTOPUS BENEDICTI	0		0		11		0			
ALOPHONOSPION PYGMAEA	0		0		0		75			
SCOTTELEPS TEXANA	21		0		0		0			
MILNEPUS CIRRIFERA	0		32		0		21			
MAGLONA PETTIBONEAE	341		32		0		21			
FUCULOCOAETUS JOHNSONI	11		11		139		43			
GEOTOPIAETOPUS C. OCULATUS	21		85		96		43			
CAPILLARIA SP.	0		0		0		75			
THARYX ANNULOSUS	960		907		11		107			
CHALAZONE SETOSA	0		0		11		0			
CHALAZONE SP.	0		0		0		21			
PIROMIS ROBERTI	0		32		0		0			
CAPITELLIDAE SP.	0		11		0		0			
CAPITELLA CAPITATA	245		32		0		0			
NEOTOMASTUS LATERICEUS	0		107		0		85			
NEOTOMASTUS AMBISSETA	181		299		128		501			
NEOTOMASTUS SP.	0		0		0		0			
ALYCHES ELONGATA	21		139		0		0			
CEPHALOPUS TORQUATA	0		43		0		21			
ARTIDIELLA SP. A	341		11		0		0			
ARTIDIELLA MUCOSA	0		21		544		21			
OWENIA FUSIFORMIS	0		11		0		0			
METACOCLE OCULATA	0		149		21		21			
CAPILLARIA VULGARIS	0		11		0		0			
NEOTOMASTUS GOULDII	0		21		11		0			
PELMA CRISTATA	75		32		11		0			
PELMA SP.	0		0		0		0			
PHYLLOPODUS SP.	107		64		43		11			
TRITIPUS SETOSUS	0		21		0		53			
LODINIA MEDUSA	11		32		43		0			
AMAZONIA TRILOBATA	21		21		85		256			
TRITIPUS STROEMER	0		64		0		107			

BENTHOS ABUNDANCE BY STATION AND SPECIES

NUMBER PER SQUARE METER
JULY 1983

SPECIES NAME	31	32	33	34	STATION	36	37	38	39	40
CIRRI AMERICANA	31				35					
SABELLA SP. A	245		0		96		43			
FABRICIA SABELLA	0		0		11		0			
BOULEGARD SP.	192		32		107		64			
BOULEGARD ENIGMATICA	0		0		11		0			
BOULEGARD SP. A	11		128		0		0			
DIPTERIDAE	0		181		32		0			
GALATHEA SP.	3392		533		693		224			
CALIGIDAE	0		0		0		11			
CALIGIDAE PULCHELLUM	11		0		0		0			
CALIGIDAE	0		0		11		0			
STENOPODEUS HEMPHILLI	0		11		0		0			
STENOPODEUS SP.	21		0		0		0			
STENOPODEUS PLANA	128		0		0		0			
STENOPODEUS MACULOSA	405		0		64		0			
STENOPODEUS PUSILLA	0		0		0		0			
STENOPODEUS DUPLICATUS	0		0		11		11			
STENOPODEUS LURATA	117		0		11		0			
STENOPODEUS ORESA	0		0		0		0			
CALIGIDAE CANCELLARIUS	0		0		0		21			
CALIGIDAE VIBEX	43		32		11		32			
DIPTERIDAE MUTICA	43		21		0		0			
DIPTERIDAE PUSILLA	0		32		0		0			
GRABIELLA OVULIFORMIS	21		469		0		53			
MAGNETELLA APICINA	11		32		11		0			
MAGNETELLA AUREOCINCTA	0		0		11		0			
DIPTERIDAE SP.	0		11		0		0			
DIPTERIDAE CONRADI	43		53		0		21			
ACTEON FUNCTOSTRIATUS	0		11		0		0			
ACTEON CANALICULATA	43		181		0		32			
PHILIPPI INFUNDIBULUM	0		0		11		0			
HAMMERE SUCCINEA	11		256		0		21			
NUBIFRANCHIA SP.	0		96		21		11			
PHILIPPI ACOPHORA SP.	11		0		85		0			
PHILIPPIA SP.	0		0		0		11			
PHILIPPIA GRENULATA	0		75		0		53			
PHILIPPIA ACUTA	0		11		11		96			
MUSCULUS LATERALIS	32		0		0		0			
BRACHIDONTES EXOSTUS	85		0		0		0			
AMYGDALUPA PAPYRUM	21		0		0		0			
LUCINA NASSELLA	0		21		32		0			
DIPTERIDAE PUNCTATA	0		0		0		0			
MUSCULUS PLANULATA	469		11		21		96			
ALICIA TEXASIANA	0		32		149		21			
NEAETHOMYS FLORIDANA	21		0		0		0			
CARDITAMERA FLORIDANA	64		11		0		0			
CARDITAMERA CF. LUNULATA	0		0		0		11			
LAVICARDIUM MORTONI	32		0		21		0			
MUSCULUS LATERALIS	0		11		0		0			
MUSCULUS TENIA	0		0		11		0			
TELLINA SP.	0		11		32		43			
TELLINA VERSICOLOR	11		21		0		0			
TELLINA DIVISUS	0		0		43		0			
AUDA AEGIALIS	0		43		11		0			

BENTHOS ABUNDANCE BY STATION AND SPECIES

NUMBER PER SQUARE METER
JULY 1983

SPECIES NAME	31	32	33	34	STATION	36	37	38	39	40
TRACHELLA CONRADINA	43		21		35		0			
MELICHTIA CAMPECHIENSIS	0		0		11		0			
CHORE CANCELLATA	0		0		32		0			
CORDIA CONTRACTA	0		0		32		0			
LEPTOCEPHALUS FLORIDANA	53		0		53		11			
DEUTEROTUM LAUGATUM	0		0		0		0			
MYDOPUS SP.	309		149		245		11			
PAPASTROPE POLLEX	11		3605		0		320			
POPHICA SPP.	0		11		0		11			
CALANOID COPEPODA	309		43		96		0			
HERPATICOID COPEPODA	32		21		21		0			
CYCLOPOID COPEPODA	0		0		0		149			
BALANUS IMPROVISUS	0		0		768		0			
NEUTRA SP.	0		0		0		11			
FORMICELLA SP.	11		0		0		0			
OXYURUS STYLI SMITHI	0		64		0		32			
CYRILLA SP. A.	21		11		0		43			
CYRILLA SP. B.	0		0		53		0			
VAUGHANSONIA SP.	0		11		96		0			
HALLICAPSEIDES CF. CUBANENSIS	0		0		43		0			
KALITAPSEIDES SP. A	11		11		0		32			
HARPEPTA PAPAX	75		0		21		0			
ALANIPURA MAGNIFICA	0		21		139		0			
ALANIPURA CF. SIGNATA	0		0		0		11			
XENAIPIURA BREVITELSON	11		0		11		0			
PARATIRCELS CAUDATA	0		0		0		0			
SERDUS MGRAVI	0		0		0		11			
ERICOPHALLA CF. ATTENUATA	32		0		0		0			
EPOTIA TRILOBA	53		53		11		0			
AMELISCA HOLMESI	53		64		32		128			
AMELISCA ARDITA	405		21		43		0			
AMPHIROE LONGIMANA	0		0		0		11			
CYMATOSA COMPTA	565		64		0		0			
LEPTOS SMITHI	0		0		11		0			
ACTINODEUTOPIUS NAGLEI	0		107		53		21			
PATEA CF. CATHARINENSIS	181		480		0		0			
CLEPATUS SP. A	0		0		75		11			
COGNITUM LACUSTRA	0		11		192		75			
EPICRINIUS BRASILIENSIS	32		21		139		0			
GEARROTERELLA BONNIEROIDES	331		171		128		0			
MELITA SP.	11		0		0		0			
PERLIS MELANICUS	0		0		0		75			
LEUCOTHOE CF. SPINICARPA	11		0		11		0			
LEUCITELLA CF. BARNARDI	149		21		43		11			
MOYCHODIDES NVEI	0		21		0		0			
PAPADOPIUS SP.	11		0		0		0			
EUREMETERIUS HONDURANUS	0		0		11		11			
PERLIS ANIUS CF. EPISTOMUS	11		0		0		0			
EPOTIA THIRAKIS	0		0		64		0			
PAPADOPIUS TENNIS	43		43		43		0			
PERLIS SP.	11		0		0		0			
TRACHOPTNAEUS CONSTRICTUS	0		0		11		0			
LUTHER FAXONI	0		0		11		32			

BENTHOS ABUNDANCE BY STATION AND SPECIES

NUMBER PER SQUARE METER
JULY 1983

SPECIES NAME	31	32	33	34	35	36	37	38	39	40
LETIDORHELA SERRATORBITA	11		21		0		11			
ALCIDUS SP.	0		11		0		0			
OCYSOIDES LIMICOLA	0		32		0		0			
HIPPOLITE PLEURACANTHUS	32		0		0		0			
HYDROTIA AFFINIS	11		21		0		11			
PAGURIDAE SP.	85		0		85		53			
PRAGMURA SP. (JUV.)	11		32		64		117			
HELIPOREPTA GRANULATA	0		0		11		11			
FOURBERG VENTRALIS	0		0		11		0			
NARIDAE SP.	11		0		0		11			
PERIDURIDAE SP.	11		11		0		0			
PURNEA CHAETOPTERANA	0		0		32		21			
PURNEA LEARSET	0		0		85		0			
PHACOLION SP.	11		11		21		21			
PHORRHES ARCHITECTA	0		160		0		21			
GLOTTIDIA PYRAMIDATA	0		53		0		0			
AMPHIBOLIDAE -P.	0		0		32		0			
AMPHIBOLUS ABDITUS	11		85		0		32			
AMPHIBOLIDAE SP.	0		0		0		0			
ASCIDIACEA SP.	11		587		11		53			
ILYDIOCAMBUS ERECTUS	11		0		0		0			
MICROGRIUS GULOSUS	0		11		0		0			
CERTHUM FRURNEUM	11		0		0		0			
THORACE SP.	11		0		0		0			
TOTAL DENSITY	16491		14577		9280		7019			
TOTAL NUMBER OF SPECIES	110		128		111		111			

NUMBER PER SQUARE METER
SEPTEMBER 1987

SPECIES NAME	1	2	3	4	5	6	7	8	9	10
PORTIERA SP.	0	0	0	0	0	0	0	0	9	10
HYDROZOA SP.	0	0	32	0	0	43	21	0	11	0
ATHENARTA	0	0	0	0	0	0	0	0	0	21
STYLOCHARIS SP.	11	0	11	0	0	21	0	0	0	43
NEMERTINA SP. = RHYNCHOCELA	64	160	96	43	21	235	43	32	256	64
NEMATODA	11	203	395	0	0	896	21	21	203	384
POLYPOID GENUS D	0	0	0	0	0	0	11	11	0	267
POLYPOID GENUS B	0	0	0	0	0	0	0	0	0	21
STENELLA OBLIQUIS	0	0	0	0	0	0	0	0	0	21
PARAMPHINOME SP. B	0	0	0	0	0	0	0	0	0	11
PHYCODOCE ARENAE	0	11	64	0	0	0	11	0	107	53
EUBALIA SANGUINEA	0	0	11	0	0	0	0	0	21	0
GYPHIS EREVIPALPA	0	0	11	0	0	0	32	11	21	0
PAPADALIA AMERICANA	85	0	0	75	32	96	0	0	0	0
TYPOSYLLIS CF. LUTEA	0	0	0	0	0	0	0	0	0	0
EXORHINE DISPAR	0	0	107	0	0	0	0	0	0	0
EXORHINE LOUREI	0	0	11	0	0	0	0	0	64	0
SPHAEROSYLLIS TAYLORI	0	11	11	0	0	0	0	0	0	0
SPHAEROSYLLIS LONGICAUDATA	0	0	11	0	0	0	0	0	0	0
EBELPSTA CORNUTA	0	32	21	0	0	0	0	0	0	0
ODONTOSYLLIS ENDPLA	0	0	0	0	0	0	0	0	107	0
STREPTOSYLLIS SP. JUV.	0	11	0	0	0	0	0	0	11	0
MERTINAE SP.	0	0	0	0	0	0	0	0	0	0
NEANTHES MICROMMA	0	0	224	0	0	0	0	0	11	0
NEANTHES SP. (JUV.)	0	11	0	0	0	0	0	0	0	43
NEANTHES SUCGINEA	11	11	128	0	0	0	0	0	0	0
LAEPIPERIS CULVERI	11	0	0	0	0	107	0	0	53	11
NECETS SIMONI	0	0	32	0	0	0	0	0	0	0
GLYCEPA AMERICANA	0	0	0	0	0	0	11	0	0	43
HEMIPIDUS ROSEUS	0	0	0	0	0	0	0	0	0	0
GONIAIDES CAROLINAE	11	0	0	0	0	0	0	0	32	21
ONCHIDAE SP.	0	0	21	0	0	0	0	0	11	0
DIOVAIRA CUPREA	0	0	0	0	0	0	0	0	0	0
KINERGINOPHIS SIMONI	0	171	224	0	0	0	0	0	0	11
MACHESA SANGUINEA	0	0	0	11	11	0	0	0	85	0
LUPERINERIS VERRILLI	0	0	192	0	0	0	11	0	651	192
LUPERINERIS SP. D	0	0	0	0	0	0	0	0	64	11
LUPERINERIS TENNIS	0	0	11	0	0	0	0	0	0	0
DRILLOMERIS LONGA	0	0	21	0	0	0	0	0	0	0
SCOTOMERINGOS RUDOLPHI	0	0	0	0	0	0	0	0	0	0
ELLETINIA SP. A	0	0	11	0	0	0	0	0	0	0
ORIGINIDAE SP.	117	11	0	0	0	21	0	0	0	0
HAPLOSCELOPLOS FOLIOSUS	0	0	11	96	107	32	96	139	11	0
HAPLOSCELOPLOS FRAGILIS	0	0	85	0	0	0	0	0	0	11
HAPLOSCELOPLOS SP.	0	85	181	64	32	96	64	0	384	0
SCOTOPLOS RUBRA	0	0	0	0	0	0	0	0	11	0
TRIPLOPLOS SP.	0	565	0	363	736	853	256	85	11	0
ARTICIDAE PHILBINAE	0	245	469	11	0	11	480	149	117	0
ARTICIDAE TAYLORI	0	0	11	0	0	0	0	0	0	181
ARTICIDAE SP.	0	0	75	0	0	0	0	0	0	0
ARTICIDAE CF. CATHERINAE	0	0	0	0	0	0	0	0	64	0
ARTICIDAE SP. C	0	0	0	0	0	0	0	0	0	192
ETEROPODUS LYRA	0	21	235	11	0	0	0	0	75	11

BENTHOS ABUNDANCE BY STATION AND SPECIES

NUMBER PER SQUARE METER
SEPTEMBER 1983

SPECIES NAME	1	2	3	4	5	6	7	8	9	10
OLIVA SAVANA	0	0	21	0	0	0	0	0	0	0
MACRIDELLA APICINA	0	0	0	0	0	0	0	0	0	11
EULIMASTOMA CF. E. WEBERI	0	0	0	64	11	0	0	128	0	11
DIOTOMIA SP.	0	0	21	0	0	0	0	0	0	0
DIOTOMIA IMPRESSA	0	0	11	0	0	11	0	0	0	0
DIOTOMIA SP.	0	0	0	0	0	0	11	0	0	0
DIOTOMIA CONRADI	0	0	0	0	0	0	0	0	0	11
DIOTOMIA INTERRUPTA	0	0	11	0	0	0	0	0	0	21
ACTEONIA CANALICULATA	0	21	85	0	0	0	0	0	149	53
HAMMOF SUCCINEA	11	0	0	0	0	0	0	0	0	0
NEPTERANCHIA SP.	0	0	11	0	0	0	0	0	0	0
LOLIELACOPORA SP.	0	0	0	0	0	0	0	0	11	0
ELVALVIA SP.	0	0	11	0	0	0	0	21	0	0
NEPTERANCHIA ACUTA	0	0	53	0	0	0	0	0	128	11
NEPTERANCHIA ACUTA	0	0	0	0	0	0	0	0	85	139
MUSCULUS LATERALIS	0	0	0	0	0	0	0	0	0	11
BRACHIDONTES EXOSTUS	0	0	1045	0	0	0	0	0	341	0
AMERZALUM PAPYRIUM	21	32	117	0	0	32	0	0	256	0
CRASSOSTRIPA VIRGINICA	0	0	21	0	0	0	0	0	21	0
DIOGONTA PUNCTATA	0	0	0	0	0	0	0	0	0	75
MUSCULUS PLANIATA	0	21	277	21	11	0	256	0	64	0
ALGARIA TEXASIANA	0	0	0	0	0	0	0	0	0	21
NEPTERANCHIA FLORIDANA	0	0	0	0	0	0	32	0	0	2560
CAPITAMERA FLORIDANA	0	0	32	0	0	0	0	0	11	0
MUSCULUS LATERALIS	11	43	149	21	11	0	53	0	0	0
UNCUS MINOR	0	0	11	0	0	0	0	0	0	0
TELLINA SP.	11	0	0	21	0	0	0	0	0	32
TELLINA VESICOLOR	21	0	0	0	0	0	0	0	0	0
TELLINA TEXANA	11	0	0	0	0	0	0	0	0	0
TAGIUS PLEBIUS	448	0	0	0	0	0	0	0	0	0
CRISTINA COARCTATA	0	0	43	0	0	0	0	0	0	0
TRAMPINELLA CONRADINA	0	0	11	0	0	0	0	0	0	0
NEPTERANCHIA CAMPECHIENSIS	0	0	21	0	0	0	0	0	0	0
CHORUS CANCELLATA	0	0	0	0	0	0	0	0	11	0
CYPRUS SP.	0	0	21	0	0	0	0	0	0	0
PAPANTARIE TRIQUETA	341	0	0	0	0	0	0	0	0	0
LYNCELA HYALINA FLORIDANA	0	0	21	0	0	0	0	0	53	0
MUSCULUS SP.	0	75	21	11	0	53	21	0	11	107
PAPANTARIE POLLEX	0	0	0	0	0	0	0	0	0	32
NEPTERANCHIA SETIPUNCTATA	0	0	0	11	0	0	0	0	0	0
NEPTERANCHIA COPEPODA	11	181	213	53	11	32	107	32	21	21
NEPTERANCHIA COPEPODA	0	0	0	21	0	0	11	0	11	0
NEPTERANCHIA COPEPODA	21	0	11	0	0	43	0	0	0	0
NEPTERANCHIA IMPROVISUS	0	0	0	0	0	0	0	0	0	0
NEPTERANCHIA BALANOIDES	0	0	0	0	0	0	0	0	160	0
NEPTERANCHIA VENUSTUS	0	0	32	0	0	0	0	0	96	0
NEPTERANCHIA ALMYRA	32	0	0	0	0	0	0	11	0	0
MUSCULUS BIGELOWI	0	0	0	0	0	0	11	21	0	117
TELLINA SP. A	0	0	0	0	0	0	0	11	0	21
CURIELLA SP. A	0	0	53	11	0	11	0	11	0	0
NEPTERANCHIA CF. CURANENSIS	7200	32	0	704	11	0	0	0	0	0
NEPTERANCHIA CF. SIGNATA	107	0	0	0	0	0	0	0	0	0
NEPTERANCHIA BEVITIELSON	395	0	0	11	0	0	0	0	0	0

RENTHOS ABUNDANCE BY STATION AND SPECIES

NUMBER PER SQUARE METER
SEPTEMBER 1983

SPECIES NAME	1	2	3	4	5	6	7	8	9	10
CYANOIDE FAXONI	0	0	43	0	0	0	0	0	0	0
ERICHSONELLA CF. ATTENUATA	0	0	32	0	0	0	21	0	0	0
EROTIA TRILOBA	11	0	11	0	0	0	0	0	0	0
AMELETICA HOLMESI	11	21	0	0	0	32	21	0	0	0
AMELETICA SP. B	0	0	0	0	0	0	0	0	0	0
AMELETICA ABDITA	21	0	32	0	0	0	0	0	11	0
AMPHIDUE LONGIMANA	0	0	11	0	0	0	0	0	0	0
CYMAURA COMPTA	0	11	0	0	0	0	0	0	0	0
CERAPUS SP. A	0	0	64	0	0	0	0	0	0	32
CONIDIUM LACUSTRA	0	0	43	0	0	0	43	0	32	0
ERTICHONHUS BRASILIENSIS	0	0	43	0	0	0	0	0	53	0
GRABITIERELLA BONNIEROIDES	0	0	0	0	0	0	21	0	171	0
MELITA FLONGATA	0	0	0	0	0	11	0	0	0	32
MELITA SP.	0	0	0	0	11	0	0	0	0	0
MELITA APPENDICULATA	0	0	11	11	21	0	0	0	0	0
ETIRIELLA CF. BARNARDI	0	0	0	0	0	0	0	0	0	0
PARACAPRELLA TENUIS	0	0	43	0	0	0	11	0	21	0
TRACHYPENAEUS CONSTRICTUS	0	0	11	0	0	0	21	0	373	21
LEUTER FAXONI	11	11	11	0	0	0	0	0	0	11
CARDIA SP.	0	11	11	0	0	0	11	0	11	0
ALPHUS HETEROCHAEIS	0	0	11	0	11	0	0	0	11	0
AUTOMATE CF. EVERMANNI	11	0	0	0	21	0	0	0	0	0
OPARTES ALPHAEOSTRIS	0	0	0	0	0	0	0	0	0	0
UPYPERIA AFFINIS	21	21	0	11	32	0	21	11	0	0
PAGURIDAE SP.	0	11	75	0	0	11	0	0	11	32
PAGURUS MACLAUGHLINAE	0	11	0	0	0	0	0	0	11	0
PAGURUS CAROLINENSIS	0	0	0	0	0	0	0	0	11	0
BRACHYURA SP. (JUV.)	0	0	0	0	0	0	0	0	11	0
MACRURAE SP. (JUV.)	21	11	32	21	0	21	32	0	0	11
HELEPOCRYPTA GRANULATA	0	0	0	0	0	0	11	0	0	21
PANDOPUS HERBSTII	0	0	11	0	0	11	0	0	0	0
RHITHROPANOPEUS HARRISII	0	0	11	0	0	0	0	0	0	0
PENIDOTERIDAE SP.	0	0	11	0	0	0	0	0	0	0
PINNIXA FEARSEI	0	0	21	0	0	0	0	0	11	0
SICHELULA SP.	0	0	0	0	0	0	0	0	0	0
PIASCOLON SP.	0	0	0	0	0	0	0	32	0	0
PHOPHUS ARCHITECTA	0	11	32	0	0	0	0	0	43	21
BRIDZIA SP. ECTOPPOCIA	0	0	0	0	0	0	11	0	11	11
GLUTIDIA PYRAMIDATA	0	0	43	0	0	21	11	0	21	0
AMPHIDURAE SP.	0	0	0	0	0	0	0	0	0	0
AMPHIDOLIS GRACILLIMA	0	0	0	0	0	0	0	0	11	75
ODONTOPAGMUS FILOGRANEUS	0	0	0	0	0	0	0	0	0	373
AMPHIOPUS ABDITUS	0	0	0	0	0	0	32	11	11	11
REPARHIOTOMA CARIBAEUM	0	0	11	0	0	0	11	0	0	0
MYDOPUS PUNCTATUS	0	0	0	11	0	0	0	0	0	0
HELEPOPEUS ERECTUS	0	0	0	0	0	0	0	0	11	0
TOTAL DENSITY	9728	5163	12640	6037	5120	4843	4213	5216	8565	9952
TOTAL NUMBER OF SPECIES	38	45	101	29	21	30	44	29	88	71

BENTHOS ABUNDANCE BY STATION AND SPECIES

NUMBER PER SQUARE METER
SEPTEMBER 1983

SPECIES NAME	11	12	13	14	15	16	17	18	19	20
FORIFERA SP.	0	0	0	11	0	0	0	0	0	0
HYDRO/9A SP.	0	0	0	0	11	21	0	0	0	0
ATHENARIA	0	181	0	0	11	0	0	0	0	0
THEMAREA SP.	0	0	0	0	21	11	0	0	0	0
STILOCHUS SP.	0	11	11	0	0	0	0	0	0	11
HEMERETINA SP. = RHYNCHOCOELA	128	139	32	21	11	299	0	0	32	53
NEBATODA	885	587	11	331	1675	181	128	139	128	341
POLYNOID SP.	0	11	0	0	0	0	0	0	0	0
LEPIDAMETRIA COMMENSALIS	0	11	0	0	0	0	0	0	0	0
POLYNOID GENUS D	149	0	0	0	0	0	0	0	0	0
STHENELE ORLIQUIS	75	0	0	0	0	0	0	0	0	0
PALLADIUS HETEROSETA	0	96	0	0	0	0	0	0	0	0
PAPAMPHOME SP. B	11	53	0	0	0	0	0	0	0	0
PHYLLODICE CASTANEA	0	0	0	0	0	0	0	0	0	0
PHYLLODICE ARENAE	11	0	0	0	0	11	0	0	0	0
ETONE HETEROPODA	11	0	11	0	11	0	0	0	0	0
LUALIA SANGUINEA	11	0	0	0	0	0	0	0	0	11
PARANATIS POLYNOIDES	11	0	0	0	0	0	0	0	0	0
GAPUS BREVIPALPA	32	0	0	0	0	0	0	0	0	0
PARANDALIA AMERICANA	85	0	0	0	11	0	0	0	0	0
TRIPANDSYLLIS COELIACA	0	0	11	0	0	0	0	0	0	0
TYPOSYLLIS SP.	0	0	11	0	0	0	0	0	0	0
TYPOSYLLIS CF. LUTEA	0	11	0	0	0	0	0	0	0	0
EXOGONE DISPAR	0	107	0	0	11	0	11	0	2432	0
EXOGONE LOUREI	0	32	0	0	21	21	0	0	0	0
SPHAEROSYLLIS SPP.	0	53	0	0	0	0	0	0	0	0
SPHAEROSYLLIS TAYLORI	0	32	0	11	11	0	0	0	21	0
BRANTIA SP.	0	32	0	0	0	0	0	0	0	0
BRANTIA WELFLEETENSIS	117	0	0	0	0	0	0	0	0	0
EBBERSIA CORNUTA	0	53	0	0	43	11	0	0	0	0
PARAFIONOSYLLIS LONGICIRRATA	11	32	0	0	0	0	0	0	0	0
CERATONEREIS IRRATABILIS	0	21	0	0	0	0	0	0	0	0
NEANthes MICRONMA	21	139	0	0	0	0	0	0	0	0
NEANthes SUCCINEA	0	0	0	0	0	0	0	0	0	0
LALUREIS CULVERI	0	0	267	0	75	0	11	832	43	0
MEPHYS SIMONI	64	11	0	0	0	0	1013	0	0	0
GLYCCA AMERICANA	11	0	0	11	32	0	0	0	0	0
HEMILIDUS ROSEUS	0	11	0	0	0	43	0	0	0	0
GLYCINE SOLITARIA	11	0	0	0	0	0	0	0	0	0
CONIATIDES CAROLINAE	11	981	0	0	11	0	0	0	0	0
PLEURONUPHIS SIMONI	0	0	0	0	139	11	0	0	0	0
MARHSA SANGUINEA	0	0	0	0	0	0	0	0	0	0
CYDICE SP. A	0	0	32	0	0	0	0	0	0	0
LUMBERNIS VERRILLI	192	53	11	32	107	320	11	0	0	267
LUMBERNIS SP. D	21	0	0	0	0	21	0	0	0	0
LUMBERNIS TENNIS	0	0	11	0	0	0	0	0	0	0
SPHONTERIS LONGA	0	0	21	0	0	0	0	0	0	0
SCHLUMBERINGOS RUDOLPHI	0	11	0	0	0	0	0	0	0	0
HALOCOLOPILOS FOLIOSUS	43	0	64	0	0	0	11	43	0	0
HALOCOLOPILOS FRAGILIS	0	0	0	0	11	11	0	0	0	0
HALOCOLOPILOS SP.	0	0	0	0	21	0	0	0	21	0
NANHERIS BICORNIS	0	0	0	0	0	0	0	0	0	43
SCHLUMBERIS RUBRA	0	11	107	107	107	43	0	0	213	0

BENTHOS ABUNDANCE BY STATION AND SPECIES

NUMBER PER SQUARE METER
SEPTEMBER 1983

SPECIES NAME	11	12	13	14	15	16	17	18	19	20
ARTILLOPHILIN	32	0	789	224	960	107	1493	117	235	160
ARTILLOPHILIN TAYLORI	21	21	907	235	1237	21	3488	821	235	3296
ARTILLOPHILIN	21	0	0	0	0	0	0	0	0	0
ARTILLOPHILIN	224	0	0	0	11	21	0	0	0	0
ARTILLOPHILIN	0	107	0	0	0	0	0	0	0	0
ARTILLOPHILIN	203	64	11	0	256	53	0	43	224	11
ARTILLOPHILIN	0	0	0	0	0	11	0	0	0	0
ARTILLOPHILIN	0	43	0	0	0	0	0	0	0	0
ARTILLOPHILIN	0	0	0	0	0	0	0	0	43	0
ARTILLOPHILIN	0	0	0	0	0	21	0	0	0	0
ARTILLOPHILIN	0	64	0	0	43	21	0	0	0	0
ARTILLOPHILIN	0	0	0	0	0	0	0	0	0	0
ARTILLOPHILIN	0	0	11	32	75	0	0	0	267	0
ARTILLOPHILIN	0	21	0	0	0	0	0	0	11	0
ARTILLOPHILIN	32	0	0	0	0	0	0	0	0	0
ARTILLOPHILIN	53	0	0	0	96	267	0	11	0	213
ARTILLOPHILIN	0	0	523	352	5088	437	491	3776	32	6133
ARTILLOPHILIN	160	0	0	0	0	11	0	0	0	0
ARTILLOPHILIN	0	0	0	0	0	21	11	0	0	0
ARTILLOPHILIN	43	11	0	0	0	0	0	0	0	0
ARTILLOPHILIN	0	0	0	0	0	0	0	0	0	0
ARTILLOPHILIN	0	0	117	21	128	21	11	0	75	0
ARTILLOPHILIN	11	0	0	0	0	0	0	0	32	0
ARTILLOPHILIN	11	0	0	0	21	0	0	0	0	0
ARTILLOPHILIN	21	0	0	0	0	0	0	0	0	0
ARTILLOPHILIN	0	192	0	0	0	0	0	0	0	0
ARTILLOPHILIN	661	21	1173	587	576	96	544	43	544	85
ARTILLOPHILIN	107	0	0	0	0	0	0	0	0	0
ARTILLOPHILIN	21	0	11	0	0	0	0	0	0	0
ARTILLOPHILIN	0	0	32	0	21	0	128	96	0	11
ARTILLOPHILIN	0	0	85	0	0	0	320	21	0	0
ARTILLOPHILIN	53	0	0	0	0	11	0	0	0	0
ARTILLOPHILIN	203	0	96	0	192	555	0	0	160	11
ARTILLOPHILIN	0	277	0	192	0	0	0	0	0	0
ARTILLOPHILIN	0	0	11	0	0	0	0	0	0	0
ARTILLOPHILIN	32	0	0	0	0	0	0	0	0	0
ARTILLOPHILIN	0	21	0	0	0	0	0	0	0	0
ARTILLOPHILIN	0	0	0	0	0	11	0	0	0	0
ARTILLOPHILIN	288	299	11	0	0	672	0	0	0	0
ARTILLOPHILIN	0	11	0	0	0	11	0	0	0	0
ARTILLOPHILIN	0	21	0	0	64	21	0	0	0	0
ARTILLOPHILIN	0	0	11	0	0	0	0	0	0	0
ARTILLOPHILIN	0	11	0	0	0	0	0	0	0	0
ARTILLOPHILIN	43	11	0	0	0	0	0	0	0	0
ARTILLOPHILIN	0	0	11	0	0	0	0	0	0	0
ARTILLOPHILIN	0	0	11	0	0	0	0	0	0	0
ARTILLOPHILIN	11	64	21	0	0	11	0	0	0	0
ARTILLOPHILIN	0	0	0	0	0	0	0	0	11	0
ARTILLOPHILIN	0	0	0	0	0	0	0	0	0	11
ARTILLOPHILIN	0	0	0	0	0	21	0	0	0	0
ARTILLOPHILIN	0	0	0	0	0	0	0	0	0	0
ARTILLOPHILIN	928	544	683	395	885	53	747	501	181	587

BENTHOS ABUNDANCE BY STATION AND SPECIES

NUMBER PER SQUARE METER
SEPTEMBER 1983

SPECIES NAME	11	12	13	14	15	16	17	18	19	20
SABELLA FUSCA	0	0	11	0	0	0	0	0	0	0
SABELLA HEMPHILLI	0	0	0	0	0	0	32	0	0	0
SABELLA GROSSEANA	0	0	0	0	0	0	11	0	0	0
SOLASTORRIS SHIMERI	0	0	11	96	0	0	0	0	11	0
CALCIUM PULCHELLUM	0	0	11	0	11	32	43	0	971	0
CALCIUM STRIGOSUM	0	0	0	0	32	0	0	0	21	0
MELANELLA SP.	11	0	0	0	0	0	0	0	0	0
CALYPTREA CENTRALIS	0	85	0	0	0	0	0	0	0	0
CALYPTULA PLANA	0	96	0	0	0	21	0	0	0	0
CALYPTULA MACULOSA	11	0	0	0	107	11	0	0	11	0
NATICA PUSTILLA	11	0	0	0	0	0	0	0	0	0
MITRELLA LUNATA	32	0	32	0	64	0	0	0	0	0
CANTHARUS CANCELLARIUS	21	0	0	0	0	0	0	0	0	21
NASSARIUS VIBEX	0	0	11	0	21	0	0	0	0	11
DIYELLA PUSTILLA	0	224	0	0	0	85	0	0	0	0
DIYELLA MINUTA	0	0	0	0	11	21	0	0	0	0
GRANULINA OVULIFORMIS	0	0	0	0	43	0	0	0	0	0
MARGINELLA APICINA	21	0	0	0	0	32	0	0	0	0
MARGINELLA LAVALLEANA	0	0	0	0	0	11	0	0	0	0
OROSTOMIA IMPRESSA	0	11	0	0	0	0	0	0	0	0
OROSTOMIA BISUTURALIS	0	0	0	0	0	11	0	0	0	0
LUPONELLA COMPADI	11	0	0	0	0	21	0	11	0	0
TURNICHELLA DALLI	0	0	0	0	21	0	0	0	0	0
ACTEONINA CANALICULATA	0	0	43	21	21	213	0	0	0	341
ACTEONINAE SP.	0	0	0	0	0	11	0	0	0	0
NITIDULA CRENULATA	21	53	0	0	0	11	0	0	0	0
NITIDULA ACUTA	85	32	0	0	21	32	0	0	0	0
BRACHIDONTES EXOSTUS	0	0	0	0	0	107	0	0	0	0
AMYGDALUM PAPYPTUM	0	0	0	0	32	21	0	0	11	0
CRASSOSTREA VIRGINICA	0	43	11	117	0	43	0	0	0	53
DIPLODONTA PUNCTATA	96	64	0	0	0	85	0	0	0	0
MYSELLA PLANULATA	0	32	0	11	107	43	0	0	0	0
ALIGENA TEXASIANA	43	0	0	0	11	0	0	0	0	0
NEAERMYA FLORIDANA	373	0	0	0	0	0	0	0	0	0
CRASSINELLA CF. LUNULATA	0	32	0	0	0	0	0	0	0	0
CARDITIDAE SP.	0	11	0	0	0	0	0	0	0	0
LAEVIGARDIUM MORTONI	0	53	0	0	0	0	0	0	0	0
IPACHICARDIUM MURICATUM	0	85	0	0	0	0	0	0	0	0
MOBILIA LATERALIS	21	0	0	0	0	0	0	0	0	0
MACOMA BREVIFRONS	0	21	0	0	0	0	0	0	0	0
TELLINA SP.	0	21	11	0	0	0	0	0	0	0
TELLINA VERSICOLOR	0	0	0	0	0	0	0	0	0	0
LAGOIS DIVISUS	0	32	0	0	0	21	0	0	0	0
GEREUF BELLASTRIATA	0	11	0	0	0	21	0	0	0	0
SEMELLE PROFICUA	0	107	0	0	0	0	0	0	0	0
ARCA ALOQUA	0	64	0	0	0	0	0	0	0	0
HEMISTRELLA CONRADINA	0	21	0	0	0	0	0	0	0	0
CYTHUS GRUS	0	11	0	0	0	0	0	0	0	0
PADA LARTE TRIQUERTA	0	0	11	0	0	0	0	0	0	0
PADUREA SP. (JUV.)	0	11	0	0	0	0	0	0	0	0
LORELLA HYALINA FLORIDANA	11	0	0	21	0	117	0	0	0	0
DIPLODONTA LAOUGATUM	21	0	0	0	32	0	0	0	0	0
MACOMA SP. SP.	11	149	11	0	0	53	0	0	0	0

BENTHOS ABUNDANCE BY STATION AND SPECIES

NUMBER PER SQUARE METER
SEPTEMBER 1983

SPECIES NAME	11	12	13	14	15	16	17	18	19	20
PARAGASTROPE POLLEX	11	0	0	0	11	0	0	0	0	0
HAPLOPHYTERIDA SETIPUNCTATA	11	0	0	0	11	0	21	0	0	0
CALAPPID COPEPODA	21	139	107	43	245	96	128	32	32	32
PARACALICOTID COPEPODA	0	0	0	0	11	0	0	64	0	85
EALABUS IMPROVISUS	0	0	0	0	21	64	0	0	0	64
SEMICALANUS BALANOIDEIS	0	0	0	0	0	0	0	0	32	0
MYSTIDOPSIS FURCA	0	11	0	0	0	0	0	0	0	0
MESIDOPSIS BIGELOWI	0	0	0	0	0	0	0	0	0	0
CUMELLA SP. A.	21	0	0	0	0	11	0	0	0	0
CYCLAPIDS SP. B.	53	0	0	0	0	0	0	0	0	0
VAUTHOMPSONIA SP.	0	0	0	0	0	0	0	0	0	0
CALOZONIUM WADEI	0	11	0	0	0	11	0	0	0	0
KALLIANEUS SP. A.	85	0	0	0	0	0	0	0	0	0
AFANTHURA MAGNIFICA	0	267	235	0	11	0	0	0	0	0
XENANTHURA BREVITELSON	0	0	0	0	0	0	213	0	0	0
SEROLIS MCPAYI	0	11	0	0	0	0	0	0	0	0
POCYNELLA SIGNATA	0	11	0	0	0	0	0	0	0	0
ERICHTHONELLA CF. ATTENUATA	0	0	0	0	21	0	0	0	0	0
AMPELISCIA HOLMESI	160	0	0	0	0	0	0	0	0	11
AMPELISCIA ABDITA	0	0	0	0	0	11	0	0	0	0
AMPELISCIA SP.	0	32	0	0	0	0	0	0	0	0
CYADUSIA COMPTA	0	0	0	0	32	0	0	0	0	0
LEMBUS SETOSUS	0	11	0	0	0	0	0	0	0	0
RILLARDIANUS LAMINOSA	0	43	0	0	0	0	0	0	0	0
PALEA CF. CATHARINENSIS	0	0	11	0	192	11	0	0	0	0
CERATIS SP. A.	0	0	0	0	0	21	0	0	0	0
CORONITHUM LACUSTRA	0	0	0	0	0	0	0	0	0	0
ERICHTHONIUS BRASILIENSIS	0	0	0	0	32	0	0	0	0	0
GRANDIDITERELLA BONNIERIDES	0	0	0	0	43	21	0	0	0	0
MELITA FLONGATA	0	0	0	0	11	0	0	0	0	0
MELITA LONGISETOSA	0	0	0	0	0	0	0	0	21	0
LEUCOTHE CF. SPINICARPA	0	21	0	0	11	0	0	0	21	0
LEUCOTHE CF. BARNARDI	43	0	0	0	0	11	0	0	0	0
PARACAPRELLA TENUI	0	0	0	0	0	11	0	0	0	0
LEUCIFER FAXONI	43	53	0	11	0	11	11	0	0	11
CAPIDEA SP.	0	21	0	0	0	0	0	0	0	0
PALAEOMNETES PUGIO	0	0	0	0	0	0	0	0	0	0
ALTHEUS HETEROCHAEUS	0	0	0	0	11	0	0	0	0	0
ALTHEUS FLORIDANUS	0	0	0	0	11	0	0	0	0	0
AUTOMATE CF. EVERMANNI	21	11	0	0	0	0	0	0	0	0
OGYDIES ALPHAEOSTRIS	0	0	0	0	0	0	0	0	0	0
HEPHELYTE PLEURACANTHUS	0	0	0	0	0	11	0	11	11	0
PROCESSA SP. (JUV.)	0	11	0	0	203	0	0	0	0	0
UPONGETA AFFINIS	11	0	0	0	64	0	0	0	0	11
PAGURIDAE SP.	11	320	0	0	0	0	0	0	21	0
PAGURUS BREVIDACTYLUS	0	0	0	0	0	0	0	0	11	0
PAGURUS CAROLINENSIS	11	0	0	0	0	0	0	0	0	0
BRACHYURA SP. (JUV.)	32	85	21	21	21	11	0	0	32	11
MAJIDAE SP. (JUV.)	0	0	0	0	0	0	0	0	0	0
JAMBERTIDAE SP.	0	43	0	0	0	0	0	0	0	0
PHILIPPINOPEUS HARRISII	0	0	11	0	0	0	21	11	320	0
PIPINOPTERIDAE SP.	43	11	0	11	0	0	0	0	0	0
PIPERIDAE CHAETOPTERANA	0	0	0	11	0	0	0	0	0	0

BENTHOS ABUNDANCE BY STATION AND SPECIES

NUMBER PER SQUARE METER
SEPTEMBER 1983

SPECIES NAME	STATION	11	12	13	14	15	16	17	18	19	20
PHASCOLION SP.	11	0	0	0	0	0	0	0	0	0	0
PHASCOLION CRYPTUS	11	0	0	0	0	0	0	0	0	0	0
ECHINURA SP.	11	0	0	0	0	0	0	0	0	0	0
PHOROSIA ARCHITECTA	0	0	0	0	0	0	0	0	0	0	0
PHOROSIA SP. - ECTOPROCTA	0	0	0	0	0	0	0	0	0	0	0
GLUTINIDIA PYRAMIDATA	0	0	0	0	0	0	0	0	0	0	0
HEMIRHODUS ELONGATA	0	0	0	0	0	0	0	0	0	0	0
AMPHIRODIA SP.	32	0	0	0	0	0	0	0	0	0	0
AMPHIRODIA GRACILLIMA	171	0	0	0	0	0	0	0	0	0	0
OSTIODORAGMUS FILOGRANEUS	11	0	0	0	0	0	0	0	0	0	0
AMPHIRODIA THROMBOIDES	11	0	0	0	0	0	0	0	0	0	0
ACTINORHYNCHUS SQUAMATUS	11	0	0	0	0	0	0	0	0	0	0
HOLODORIDIA SP.	11	0	0	0	0	0	0	0	0	0	0
HOLODORIDIA SP. A	0	0	0	0	0	0	0	0	0	0	0
ERANETIDOSTOMA CARIBAEUM	0	0	0	0	0	0	0	0	0	0	0
TUNICATAE SP.	21	0	0	0	0	0	0	0	0	0	0
TOTAL DENSITY	6741	7019	5653	2944	13483	4907	8907	6571	6464	11947	
TOTAL NUMBER OF SPECIES	82	89	46	27	66	74	24	17	34	29	

BENTHOS ABUNDANCE BY STATION AND SPECIES

NUMBER PER SQUARE METER
SEPTEMBER 1983

SPECIES NAME	21	22	23	24	25	26	27	28	29	30
MELIDIA BERYLLINA	0	21	0	0	0	0	0	0	0	0
PORTIERA SP.	0	0	0	0	0	0	0	21	32	0
HYDROZOA SP.	11	0	0	0	0	0	43	0	0	0
ALUMINATA	0	0	0	32	0	21	0	0	0	75
PLATHELMINTHES SP.	0	0	0	0	0	0	0	0	171	0
POLYCLADIDA SP.	0	0	0	11	0	0	0	0	0	0
STYLOBUS SP.	0	32	11	0	32	0	0	0	43	11
NEMERTINA SP. - RHYNCHOCOELA	64	149	75	32	139	267	117	224	267	331
NEMATODA	64	491	267	75	1749	2432	651	875	395	1397
POLYDORUS SP.	0	0	0	0	0	0	0	0	21	0
LEPIDODONTUS SURLEVIS	0	0	0	0	11	0	0	0	0	0
LEPIDODONTUS VARIABILIS	0	0	0	0	0	0	0	0	0	11
LEPIDASTHENIA VARIUS	0	0	0	0	11	0	0	0	0	0
POLYDORUS GENUS D	11	107	0	107	11	0	0	0	11	11
POLYDORUS GENUS B	0	0	11	32	32	128	0	0	0	0
STIMULIA OBLIQUIS	0	0	0	0	0	11	0	0	0	0
STALTON ARENICOLA	0	0	0	0	0	0	0	0	0	0
PALFAIRIUS HETEROSETA	0	0	0	0	21	0	0	0	0	0
PALFAIRIUS SP. A	0	0	0	0	0	0	0	0	0	0
PARANIDMUS SP. B	0	11	0	21	85	11	0	0	181	11
PHYLLODICE CASTANEA	0	0	0	0	0	0	0	0	21	32
PHYLLODICE ARENAE	0	43	53	11	53	43	11	0	0	11
ETHEME HETEROPODA	0	0	0	0	0	53	11	0	0	0
EULALIA SANGUINEA	0	0	0	0	21	0	0	0	128	0
PARANIDMUS POLYNOIDES	0	11	0	11	0	0	0	0	0	0
GYTTIS BREVIPALPA	53	21	0	11	43	11	0	11	43	75
PARANIDMUS LUTEOLA	11	0	0	0	0	0	0	0	0	0
PODAPKE OBSCURA	0	0	0	0	0	0	0	0	32	0
AMPHISTROSYLLIS HARTMANAE	0	0	0	0	11	11	0	0	0	0
AMPHISTROSYLLIS CF. HAMATA	0	0	0	0	32	0	0	0	0	0
AMPHISTROSYLLIS JONESI	0	0	0	0	21	0	0	0	0	0
AUTOXYTUS DENTALIUS	0	0	0	0	0	11	0	0	0	0
TYPOSYLLIS SP.	0	0	0	0	0	0	0	0	11	0
TYPOSYLLIS PROLIFERA	0	0	0	0	0	0	0	0	416	0
TYPOSYLLIS CF. LUTEA	0	0	0	0	0	0	21	427	480	64
EXOGONE DISPAR	0	0	0	0	21	149	384	107	171	384
EXOGONE LOUREI	0	0	32	0	85	0	0	0	64	107
SPHAIROSYLLIS SPP.	0	0	0	0	0	32	0	0	11	0
SPHAIROSYLLIS TAYLORI	11	11	0	0	21	128	0	21	43	32
EPANIA CLAVATA	0	0	0	0	0	0	0	0	331	0
EPHROSIA CORNUA	0	0	32	0	43	21	0	0	0	299
DIPTOSYLLIS ENOPLA	0	0	0	0	0	11	43	0	21	117
STREPTOSYLLIS PETTIBONEAE	0	0	0	0	0	53	0	0	0	0
PARAPETOSYLLIS LONGICIRRATA	0	0	0	0	21	0	0	0	0	0
NEMERTAL SP.	0	0	0	0	11	0	0	0	395	107
CEPHALOPUS IRRATABILIS	0	0	53	11	53	11	0	0	0	0
NEPHRUS MICROMMA	0	21	0	11	352	139	0	21	0	384
NEPHRUS ACUMINATA	0	0	0	0	0	0	0	0	0	224
NEPHRUS SUCCINEA	11	0	0	0	0	0	139	0	0	0
NEPHRUS FALSA	0	0	0	0	0	0	0	0	128	11
LATEROPUS CULVERI	0	0	0	0	11	0	0	0	0	0
NEPHRUS SIMONI	0	0	0	0	43	0	0	0	0	0
NEPHRUS INCISA	0	21	0	0	0	0	0	0	0	0

BENTHOS ABUNDANCE BY STATION AND SPECIES

NUMBER PER SQUARE METER
SEPTEMBER 1983

SPECIES NAME	21	22	23	24	25	26	27	28	29	30
NARCEA PETITRONEAE	0	53	0	0	0	0	0	53	0	11
POGONOCHEILUS JOHNSONI	0	0	0	11	21	11	0	0	0	0
SPIDICHAETOPTERUS C. OCULATUS	0	21	0	11	21	32	0	0	0	32
CALYPTELLA SP.	0	0	0	0	352	288	0	0	0	555
THALPUS ANNULOSUS	213	533	53	149	107	96	395	1152	0	352
CHALIDORUS SP.	0	0	0	43	21	53	0	0	0	0
ACROTERUS FRONTIFILIS	0	0	0	0	0	0	0	0	32	0
TRAVESTIA HOBSONAE	0	0	0	0	0	11	0	0	0	0
CALYPTELLA CAPITATA	0	0	0	0	0	0	85	0	11	309
HETEROMASTUS FILIFORMIS	21	0	0	0	0	0	0	0	0	0
NEOMASTUS LATERICEUS	0	11	0	96	117	0	0	0	0	0
METOMASTUS AMBISETA	160	491	1099	32	0	619	0	43	1845	11
METOMASTUS CALIFORNIENSIS	0	0	0	0	0	0	0	512	0	149
METOMASTUS SP.	0	0	0	0	811	0	0	0	0	1195
ALGOLUS FLONGATA	11	0	0	0	0	0	0	0	0	0
CALYPTELLA TORQUATA	0	43	11	21	21	0	0	0	0	0
ALGOLUS MUCOSA	0	0	0	0	11	32	43	85	0	53
OWENIA FUSIFORMIS	0	0	11	0	32	11	0	0	0	0
METOCHELE OCULATA	21	107	309	256	608	267	0	0	0	1088
CALYPTELLA VULGARIS	0	0	0	0	11	0	0	0	11	64
FEEDINARIS GULDII	0	11	0	0	0	0	0	0	0	95
ECOLIN PULCHELLA	0	0	11	0	0	0	0	11	0	11
PICATA CRISTATA	0	0	0	0	0	0	11	0	0	11
PICATA PALMATA	0	0	0	0	0	0	0	0	0	11
POLYGIRUS SP.	0	0	0	21	11	11	0	0	0	21
THELLUS SETOSUS	0	0	0	0	32	11	0	0	149	11
LOTIA MEDUSA	0	11	0	11	96	11	0	0	0	21
ANANIA TRILOBATA	0	0	0	0	11	0	0	0	0	21
CERES AMERICANA	0	0	0	0	64	160	245	43	0	32
MEGALOMMA BILOCULATA	0	0	0	0	0	0	0	0	11	0
POTAMILLA RENIFORMIS	0	0	0	0	0	0	43	0	0	0
FAERECIA SABELLA	0	0	0	0	32	192	32	1408	11	1664
SPERBERIS SPIRILLUM	0	0	0	0	0	0	149	0	0	0
HEDDINGS DIANTHUS	0	0	0	0	11	0	0	32	171	32
HEDDINGS PROTULICOLA	0	0	0	0	0	0	11	0	64	21
FILIGRANA IMPLEXA	0	0	0	0	0	0	0	1621	11801	32
BODREA ENIGMATICA	0	0	0	11	0	0	0	0	0	0
BODREA SP. A	0	0	11	0	0	0	0	0	0	0
MAGELONA CF. CINCTA	0	0	0	0	0	21	0	0	0	0
OLIGODONTUS SP.	352	128	11	64	1515	501	939	565	11	736
OLIGODONTUS	0	0	0	0	0	0	0	21	0	0
SOLAROREIS SHIMMERI	0	0	11	0	0	0	0	43	320	3531
CALCUM PULCHELLUM	0	0	11	0	0	21	0	0	19968	0
CALCUM STRIGOSUM	0	0	11	0	469	53	0	0	0	43
DIALOMMA VARIUM	0	0	0	0	0	0	0	0	0	11
LEPTOMMA SP.	0	0	0	0	0	0	0	0	0	0
MELAMILLA INTERMEDIA	0	0	0	11	11	0	0	0	0	0
CRIPIDIA SP.	0	0	0	0	11	0	0	0	0	0
CRIPIDIA PIANA	0	0	0	0	0	21	11	11	331	256
CRIPIDULA MACULOSA	0	0	0	0	0	0	0	0	0	0
FORULICES DUPLICATUS	0	11	11	0	11	0	0	0	0	11
METELLA LUNATA	0	0	43	0	32	11	0	32	21	256
ANACHIS OBESA	0	0	0	0	11	0	0	0	0	0

BENTHOS ABUNDANCE BY STATION AND SPECIES

NUMBER PER SQUARE METER
SEPTEMBER 1983

SPECIES NAME	21	22	23	24	25	26	27	28	29	30
ANACHIS OPSEA OSFIREICOLA	0	0	0	0	0	0	0	0	0	0
CALIGAPUS CANCELLARIUS	0	0	0	0	11	32	0	0	0	0
NASSARIUS VIBEX	0	32	21	0	0	0	11	0	0	21
DIIVELLA PUSILLA	0	11	21	11	0	192	0	0	0	0
DIIVELLA MINUTA	0	0	0	0	0	11	171	0	0	0
OLIVA SAVANA	0	0	0	11	0	0	0	0	0	0
GRANULINA OVULIFORMIS	0	0	0	0	0	0	0	0	0	0
MARGARELLA APICINA	0	0	0	0	0	0	53	0	0	0
OROSTOMIA IMPRESSA	0	0	0	21	0	11	64	0	0	0
OROSTOMIA BISUTURALIS	0	0	0	0	0	0	21	0	0	0
TURPINELLA SP.	11	0	0	0	0	0	0	0	21	0
TURPINELLA CONRADI	0	43	128	11	32	21	11	32	0	64
TURPINELLA INTERRUPTA	0	0	32	0	0	0	0	0	0	11
TURPINELLA DALLI	0	11	0	0	0	0	32	0	0	0
FUJIMASTOMA SP. A	21	0	21	11	0	0	0	0	0	0
ACTEON PUNCTOSIRIATUS	11	0	0	0	0	0	0	0	0	0
ACTEON CANALICULATA	11	203	213	53	0	11	53	43	0	43
HAMINDE SUCCINEA	0	0	0	0	0	0	32	11	0	0
POLYPLACOPHORA SP.	0	0	0	0	0	0	0	0	0	11
REVALVIA SP.	0	0	0	43	0	0	0	0	0	0
NUCULA CRENUFATA	0	11	21	0	64	96	0	11	0	245
NUCULANA ACUTA	0	0	0	117	64	437	0	0	0	0
ANAPANA TRANSVERSA	0	0	0	0	11	11	0	0	0	0
GLYCYMERIS PECTINATA	0	0	0	0	0	11	0	0	0	0
BRACHIDONTES EXOSTUS	0	0	0	0	0	0	0	0	0	0
AMERZONIUM PAPYRIUM	21	21	0	0	11	0	0	11	107	331
CRASSOSTREA VIRGINICA	0	0	0	0	0	0	0	107	277	43
LEPTA NASSULA	0	0	0	32	0	0	0	0	96	0
LEPTA AMIANTUS	0	0	0	0	0	0	0	11	0	0
ODAKTA ORBICULATA	0	0	0	0	0	0	0	0	0	0
DIETLOPHIA PUNCTATA	0	11	0	64	64	96	0	0	0	75
MYELLA PLANULATA	11	0	11	0	117	64	0	0	0	373
ALIGMA TEXASIANA	0	43	11	32	0	0	0	0	0	0
HEAEROMYA FLORIDANA	0	11	0	288	0	0	0	0	0	0
CARDITAMERA FLORIDANA	0	0	0	0	0	0	0	0	0	85
CRASSINELLA CF. LUNULATA	0	0	0	0	32	0	0	0	0	11
CARDIDAE SP.	0	0	0	0	0	11	0	0	0	117
CAVICARDIUM MORTONI	0	0	0	0	0	21	0	0	0	0
HELLINA SP.	0	0	0	43	0	0	0	0	0	0
HELLINA VERSICOLOR	0	0	11	0	32	53	0	0	0	11
TAGIUS DIVISUS	0	0	0	0	107	107	0	0	0	0
TAGIUS SP.	0	0	0	0	32	0	0	0	0	107
SEMITE RELASTRIATA	0	0	0	0	32	53	0	0	0	0
SEMITE NICHIDIDES	0	0	0	0	32	75	0	0	0	32
AREVA AEGIALIS	0	0	0	11	117	0	0	0	0	11
EURYNELLA COARCTATA	0	0	0	0	0	21	0	0	0	96
EURYNELLA CAROLINIANA	0	0	0	0	0	0	0	0	0	0
EURYNELLA CONRADINA	0	0	0	0	64	11	21	64	0	0
EURYNELLA CONTRACTA	0	0	0	0	0	11	0	0	0	0
EURYNELLA SP.	0	0	0	0	0	11	0	0	0	0
EURYNELLA SP. (JUV.)	0	0	0	0	0	11	0	0	0	0
EURYNELLA FLORIDANA	0	11	0	32	11	32	0	0	0	96
EURYNELLA LAUGATUM	0	0	0	0	0	21	0	0	0	0

SPECIES NAME	21	22	23	24	25	26	27	28	29	30
AUTOMATE CF EVERMANNI	0	0	0	11	0	0	0	0	0	0
OGGRIE'S ALPHAEROSTRIS	32	0	0	0	0	0	64	0	0	0
HERPOLYTE PLEURACANTHUS	0	32	0	0	11	0	21	32	32	11
EUCEDAMUS PRAE LONGUS	0	0	0	0	21	32	0	0	0	0
MOGELLA AFFINIS	0	11	0	32	0	96	0	32	11	21
PAGURIDAE SP.	0	0	0	11	32	85	0	43	117	619
PAGURUS PREVIDACTYLUS	0	0	0	0	32	21	11	0	0	0
PAGURUS GYMNOACTYLUS	0	0	0	0	43	0	0	0	0	0
PAGURUS CAROLINENSIS	0	0	0	0	0	0	0	0	0	0
PELOLISHES ARMATUS	0	0	0	0	0	0	0	0	0	0
ERACTIVIPA SP. (JUV.)	0	21	43	43	85	107	64	75	235	139
TEALIA SP.	0	0	0	0	0	0	0	0	107	21
MALIDAE SP. (JUV.)	0	0	11	0	11	0	11	0	0	11
HETEROCRYPTA GRANULATA	0	0	0	0	11	0	0	0	0	0
PORTUNUS GIBBESII	0	0	0	0	0	0	0	0	11	0
XANTHIDAE SP.	0	0	0	0	0	11	0	0	11	0
NEOPARQUE TEXANA TEXANA	0	0	0	0	0	0	0	0	629	0
CADOPUS HERBSTII	0	0	0	0	11	0	11	11	0	0
PHILIPPOPEUS HARRISII	0	0	0	0	0	0	0	0	704	0
EUPHYLAX NITIDA	0	0	0	0	0	0	0	0	0	0
PINIDHEPIDAE SP.	11	0	11	32	96	11	0	0	0	96
PINIXA CHAETOPTERANA	0	0	0	21	11	0	0	0	0	0
PINIXA PELINENS	0	0	0	0	21	0	0	0	0	0
STIRRULA SP.	0	0	0	0	0	0	0	0	0	0
PHASCOLION SP.	0	0	0	0	0	0	75	11	0	11
PHODUS ARCHITECTA	0	0	0	11	0	0	0	0	0	0
PRADOZA SP. = ECTOPROCTA	0	0	0	0	0	0	0	0	0	0
GLUTIDIA PYRAMIDATA	21	0	0	0	0	11	0	0	32	0
ORTHOPERMA SP.	0	0	0	0	11	0	0	0	11	0
HEMIPHODIS ELONGATA	0	0	0	0	0	11	0	0	0	0
AMPHITURAE SP.	0	0	21	21	32	11	0	0	0	11
AMPHIPHODIS GRACILLIMA	0	75	11	181	0	0	0	0	0	0
ORTHOPHRAGMUS FILOGRANEUS	0	0	0	11	0	0	11	0	0	0
ORTHOPHRAGMUS SP.	0	0	0	0	11	21	0	0	0	0
ORTHOPHRAGMUS SEPTUS	0	0	0	0	11	0	0	0	0	0
AMPHIPHODIS ARDITUS	11	0	0	0	0	0	0	0	0	0
MICROPHODIS ATRA	0	0	0	0	0	0	0	0	0	0
AXIOLATHES SQUAMATUS	0	53	0	32	0	0	0	0	0	0
AMPHIPHODIS INCISUS	0	0	0	0	0	43	11	0	0	11
PHODOTURPIDA SP.	0	0	0	0	0	0	21	0	0	0
ASPHIDEA SP.	0	0	0	0	0	0	32	0	0	0
PHODOTURPIDA SP.	0	0	0	32	21	107	0	0	0	0
BRACHIOSTOMA CARIBAEUM	0	0	0	0	0	0	0	0	0	0
TOTAL DENSITY	12096	7552	4459	3424	13792	12619	9515	16171	46037	25803
TOTAL NUMBER OF SPECIES	41	66	56	82	129	128	69	71	82	125

PENTHOS ABUNDANCE BY STATION AND SPECIES

NUMBER PER SQUARE METER
SEPTEMBER 1983

SPECIES NAME (ENCrustING)	31	32	33	34	35	36	37	38	39	40
DEMPONGIAE (ENCrustING)										
HYPPOZOA SP.	0	0	0	11	0	0	0	0	0	0
ATHAMPA	0	0	0	11	11	0	0	0	0	0
THAMPA SP.	0	0	21	32	11	0	53	0	149	0
STYLOCHUS SP.	0	0	0	0	0	0	11	32	0	0
NEPTUNA SP. - RHYNCHOCELA	117	181	224	235	309	107	85	21	21	43
NEPTUNA	11	11	43	117	288	75	0	85	245	192
ELIPIDIDIUS VARIABILIS	0	0	0	128	0	0	0	256	224	107
FOOTED GENUS D.	21	21	43	32	11	0	0	0	0	11
CHIRALIS OBLIQUIS	0	0	85	21	0	43	32	0	0	160
PALAMIDUS HETEROSETA	0	0	0	0	11	0	0	0	0	0
PARAMIDOME SP. B	0	0	0	43	21	0	21	0	0	96
PHILODOCE CASTANEA	0	0	0	0	85	0	0	0	0	0
PHILODOCE ARENAE	0	0	32	64	96	0	11	11	11	11
ELONG HETEROPODA	0	21	0	0	0	0	0	11	0	0
EULALIA SANGUINEA	0	0	0	11	213	11	0	0	11	0
PARANATIS POLYNOIDES	0	0	0	0	0	0	11	0	0	0
GYPIS REVIPALPA	11	32	75	75	96	0	21	21	43	192
PADANESONE LUTEOLA	0	0	0	0	0	0	0	11	0	0
PRADNE OBSCURA	0	0	0	0	11	0	0	0	0	0
ANCIETROSYLLIS HARTMANAE	0	0	0	0	11	0	0	0	0	0
ANCIETROSYLLIS CF. JONESI	0	0	0	0	0	0	0	0	11	0
SYLLIDAE SP.	0	85	0	0	11	0	0	0	0	0
TYROSYLLIS SP.	0	0	0	11	0	0	0	363	11	0
TYROSYLLIS CF. LUTEA	0	0	11	0	0	0	0	0	0	0
TYROSYLLIS CF. AMILLARIS	0	0	0	0	0	0	0	0	0	0
EXOGONE DISPAR	0	75	75	224	427	43	0	0	491	0
EXOGONE LOUREI	0	0	0	85	0	53	0	0	0	0
SPHAEROSYLLIS TAYLORI	0	0	0	0	160	0	0	21	0	0
SPHAEROSYLLIS LONGICAUDATA	0	0	0	0	0	0	0	11	0	0
ERANIA SP.	0	0	0	43	0	11	0	0	0	0
GRANIA WELFLEETENSIS	0	0	0	0	43	0	53	0	0	0
PHIPPIA CORNUA	0	96	32	21	85	0	0	0	53	11
HAPLOSYLLIS SPONGICOLA	0	0	0	11	0	0	0	0	0	0
OROTOSYLLIS ENOPLA	0	11	32	11	0	0	21	0	32	0
GYLIDES FLORIDANUS	0	0	0	0	0	0	0	11	11	0
STREPTOSYLLIS PETTIBONEAE	0	0	0	0	32	0	0	0	0	0
PADATYROSYLLIS LONGICIRRATA	53	0	0	0	11	0	0	0	0	0
MERTIDAE SP.	0	0	0	0	75	0	0	21	85	0
CERATONEREIS IRRITABILIS	0	0	0	21	21	0	0	0	32	0
NEPTHEUS MYCROMMA	0	0	21	683	53	96	0	0	139	11
NEPTHEUS SUCCINEA	11	85	0	21	21	0	0	0	75	0
NEPTHEUS FALSA	0	0	0	64	0	0	0	0	0	0
LACONEREIS CULVERI	32	0	11	0	0	43	75	0	0	0
NEPTHEUS SIMONI	0	0	32	0	0	0	0	0	0	0
NEPTHEUS INCTA	0	0	0	0	0	11	0	0	0	21
AGATHANUS VERRILLI	0	11	21	0	0	11	32	0	0	21
CECEPA AMERICANA	0	11	32	0	21	11	11	11	32	11
CECEPA DIBRANCHIATA	0	11	0	0	11	0	0	0	11	0
NEPTHEUS ROSEUS	0	0	0	0	171	0	0	0	0	0
CECEPA SOLITARIA	96	53	32	43	11	0	0	83	757	0
CECEPAIDES CAROLINAE	0	0	0	0	1419	0	0	0	0	0
CECEPAIDES SP.	0	11	0	0	0	0	0	0	0	0

NUMBER PER SQUARE METER
SEPTEMBER 1993

SPECIES NAME	31	32	33	34	35	36	37	38	39	40
DIOCHRA CUREA	0	0	0	0	0	0	0	0	0	0
KINETHRONUS SP. SIMONI	96	128	64	11	53	0	0	64	363	0
PHILICIA SP.	0	11	0	0	0	0	0	0	0	0
LUMBRINERIS YERULLI	11	75	427	896	235	171	181	32	853	277
LUMBRINERIS SP. D	0	0	21	0	21	11	0	0	0	11
LUMBRINERIS TENNIS	0	0	181	0	0	0	0	0	0	544
LUMBRINERIS FESTUINUM	0	0	21	0	0	0	0	0	0	0
DRILINERIS LONGA	11	11	0	11	0	11	11	0	0	0
ARAFELLA MILANS	0	11	0	11	0	0	0	0	0	0
DORVILLEA SOCIABILIS	0	0	0	0	0	0	0	0	11	0
SCHISTONERINUS RUBOLPHI	0	11	11	53	11	0	0	0	0	21
FEFFERDORFIA SP. A	0	0	0	0	11	0	0	0	11	21
HAPLOSCOPUS FOLIOSUS	0	0	0	0	11	0	0	75	32	43
HAPLOSCOPUS FRAGILIS	11	11	53	0	0	11	0	0	32	32
SCOLOPUS RUBRA	21	85	32	43	21	32	0	96	75	32
ARTIDEA PHILEINE	651	21	117	117	11	11	0	907	320	21
ARTIDEA TAYLORI	149	341	160	96	75	21	0	331	245	139
ARTIDEA CF. CATHETERINAE	0	0	0	75	21	0	0	0	0	0
ARTIDEA SP. C	0	0	0	0	0	96	11	0	0	107
ARTIDEA FRAGILIS	0	0	0	0	0	0	32	0	0	0
CEROPHUS LYRA	11	0	11	64	576	0	0	469	43	203
CEROPHUS CF. FORTICIRRATUS	0	0	0	0	53	0	0	0	0	0
POLYDORA LIGNI	0	0	0	0	0	0	0	11	0	0
POLYDORA SOCIALIS	11	0	11	21	21	11	0	11	32	32
POLYDORA WEBSTERI	0	21	0	21	0	0	0	0	0	0
PRIONOSPION HETEROBRANCHIA	53	0	0	0	21	0	0	0	43	0
PRIONOSPION CRISTATA	0	0	0	21	0	11	0	0	0	0
SPION PETITIRONEAE	0	0	0	0	107	0	0	0	0	0
SPIONIANES BOMBYX	0	0	0	0	21	11	0	0	0	43
PSEUDOPOLYDORA SP. A	0	11	0	75	203	0	43	0	85	32
PARAPRIONOSPION PINNATA	235	139	320	341	0	11	11	21	1675	32
APRIONOSPION PYGMAEA	0	43	0	0	21	43	107	0	11	0
SCOLEPIS TEXANA	11	21	11	0	43	21	0	0	107	64
MINUSPIO CIRRIFERA	0	0	0	0	0	0	0	0	0	0
MINUSPIO CIRROBRANCHIATA	0	117	11	0	0	0	0	203	128	0
MACELONA PETITIRONEAE	149	0	0	0	299	11	0	0	0	0
BOECLOCHAETUS JOHNSONI	0	0	0	0	0	0	0	0	0	0
SPIONCHAETOPTERUS C. OCULATUS	21	0	149	32	0	43	32	11	320	21
CAULICERILLA SP.	0	0	11	139	0	0	0	0	0	0
THIANYX ANNULOSUS	629	256	629	181	320	53	85	309	565	267
CHARTOZON SP.	0	0	21	0	0	21	96	0	0	11
PUPOMIS POBERTI	0	0	0	11	0	0	0	0	0	0
ARMANTIA AGILIS	0	0	0	0	11	11	0	0	0	11
CAPITELLA CAPITATA	11	0	0	0	0	0	0	21	21	11
HELETHOMASTUS FELIFORMIS	0	0	0	0	0	0	0	107	0	0
HELETHOMASTUS LATERICEUS	11	0	299	0	0	53	43	0	11	213
HELETHOMASTUS AMBISETA	43	309	32	394	0	128	75	0	1344	96
HELETHOMASTUS CALIFORNIENSIS	0	0	0	0	331	0	0	0	0	0
HELETHOMASTUS CALIFIDIOR	0	11	0	0	0	0	0	0	11	0
ASCHIS ELONGATA	11	11	203	11	0	0	0	0	0	21
CAPITELLA TORQUATA	0	0	53	0	0	0	21	0	11	352
ACIDIBELLA MUCOSA	0	53	32	224	469	21	0	149	11	53
ACIDIBELLA CF. SP. B	0	0	0	0	0	0	0	0	0	11

BENTHOS ABUNDANCE BY STATION AND SPECIES

NUMBER PER SQUARE METER
SEPTEMBER 1983

SPECIES NAME	31	32	33	34	35	36	37	38	39	40
PERIDINIA SP. Z	0	0	11	0	0	0	0	0	0	0
OWENIA FUSIFORMIS	0	0	11	21	0	0	0	0	11	0
METOPHELE OCULATA	0	21	693	6336	139	1013	96	0	256	1408
SABELLARIA VULGARIS	0	64	64	384	32	0	0	0	469	0
PECTINARIUS GOULDII	0	21	53	43	0	0	0	11	11	0
AMPHICETES GUNNARI	0	0	0	0	0	0	0	11	0	0
MELITHAEA MACULATA	0	11	0	21	0	0	0	0	0	0
ISOPUS PULCHRELLA	0	0	0	32	11	0	0	0	0	0
PISIA CRISTATA	0	0	0	11	11	11	0	0	21	0
POLYDORUS SP.	0	21	43	32	64	0	0	0	11	21
THELEPUS SETOSUS	0	0	11	43	0	0	0	0	0	0
LOIMA MEDUSA	0	0	0	43	0	11	11	0	11	0
LOIMA VIRIDIS	0	0	0	0	0	0	0	0	0	0
ARARNA TRILOBATA	0	0	0	21	53	11	11	0	0	11
TEREPILLIDES STRIEMI	0	0	0	0	0	0	0	0	0	75
CERIE AMERICANA	21	64	0	0	53	0	0	75	32	0
MEGALOMMA BIOCULATA	0	0	0	0	0	11	0	0	11	0
FOFANTILLA RENIFORMIS	0	0	0	0	0	0	0	0	0	0
FABRICIA SABELLA	11	299	21	277	597	11	0	256	576	21
SETHOBES SPIRILLUM	0	0	75	0	0	0	0	0	0	0
HYDROIDES DIANTHUS	0	11	0	0	0	0	0	0	11	0
POGCHA ENIGMATICA	0	11	53	11	0	0	0	0	32	0
EDGHEA SP. A	0	11	11	53	11	0	0	0	117	21
CLIGOPHAETE	427	395	64	213	587	53	117	800	395	75
GASTROPODA SP.	0	0	0	0	0	0	0	0	11	0
HYDROPHILIDAE SP.	0	0	0	0	0	0	0	0	11	0
RISGITHA CATESBYANA	0	32	21	11	0	0	0	0	0	0
SABELLA HEMPHILLI	0	21	0	0	0	0	0	21	0	0
CYCLOSIREMISCUS PENTAGONUS	0	0	0	0	0	0	0	0	0	0
SPIRARTOBES SHIMERI	0	0	0	0	0	0	0	0	11	43
CALCUM PULCHELLUM	11	117	0	0	64	0	0	0	11	0
CALCUM STRIGOSUM	0	0	0	0	21	0	0	43	11	0
DIASOMA VARIUM	981	171	0	0	21	0	0	192	64	0
CREPIDULA PLANA	0	96	0	43	85	0	0	21	21	11
CREPIDULA MACULOSA	288	0	0	11	0	0	0	235	736	0
NATICA PUSILLA	0	0	0	0	0	11	11	0	0	0
FOINICES DUPLICATUS	0	0	0	0	0	0	0	0	0	0
MILNEA LUNATA	245	117	0	0	11	0	0	64	117	11
NAGARIUS VIBEX	11	11	21	0	0	0	0	21	21	0
OLIVELLA MUTICA	11	0	0	0	0	0	0	0	0	0
OLIVELLA PUSILLA	0	0	53	117	0	0	0	0	32	43
OLIVELLA MINUTA	32	96	96	0	0	0	0	11	117	21
GRANULINA OVULIFORMIS	53	0	96	0	0	0	0	21	107	0
MARGARELLA APICINA	0	96	64	43	0	11	0	11	53	32
MARGARELLA AUREOCINCTA	0	0	0	0	0	0	0	0	11	0
MARGARELLA LAVALLEANA	0	0	21	32	0	0	0	0	75	0
HYALINA SP.	0	11	0	0	0	0	0	0	0	0
MARGARELLA MELANITICA	11	11	0	11	0	0	0	0	0	0
TERPENA PROTETIA	0	11	0	0	0	0	0	0	0	0
ETHINASTOMA CF. E. WEBERI	11	0	0	0	0	0	0	0	0	0
ODOSTOMIA SP.	0	0	0	0	0	0	0	0	85	0
ODOSTOMIA IMPRESSA	32	0	0	0	0	0	0	75	0	0
TURRICHELLA CONRADI	213	21	192	32	21	32	43	11	256	267

BENTHOS ABUNDANCE BY STATION AND SPECIES

NUMBER PER SQUARE METER
SEPTEMBER 1983

SPECIES NAME	31	32	33	34	35	36	37	38	39	40
HYPOPHYLIA INTERRUPTA	0	32	0	0	0	0	0	0	0	0
HYPOPHYLIA DALLI	11	0	0	0	0	0	0	0	0	0
ACUTIB PUNCTOSTRIATUS	224	352	107	256	0	53	32	107	1152	0
ACUTIB PUNCTA CANALICULATA	149	96	143	0	11	11	0	21	2635	0
POLYDORA INFUNDIBULUM	0	0	0	0	0	0	0	0	0	0
HAMMERS SUCCINEA	0	0	0	0	0	0	0	0	0	0
POSTILIA DISCUS	0	11	0	85	43	0	0	0	43	0
POLYDORA ACOPHORA SP.	0	32	21	96	32	117	11	0	75	75
POSTILIA GRENULATA	0	0	32	171	21	181	53	0	0	32
NEPHELENA ACUTA	0	0	0	11	0	0	0	0	0	0
ANALAPA TRANSVERSA	0	0	0	0	0	0	0	0	11	0
MUSCULUS LATERALIS	0	0	0	0	32	0	0	0	0	0
MUSCULUS AMERICANUS	224	128	0	0	128	0	0	0	149	0
EPACHTHONOTES EXOSTUS	11	21	0	0	0	0	0	64	0	0
AMYGDALUM PAPHIRIUM	0	0	0	0	11	0	0	0	0	0
CRASSOSTREA VIRGINICA	0	11	32	0	0	11	0	0	0	11
LUCINA NASSULA	0	21	0	0	11	0	0	0	11	0
LUCINA AMANTUS	0	0	11	53	43	32	117	0	11	139
DIPLONOTA PUNCTATA	0	0	0	0	21	0	0	0	0	0
LACALUAE SP.	21	75	117	53	107	11	21	192	181	117
MYTILLA PLANULATA	0	0	75	0	0	0	75	0	11	0
ALBINA TEXASIANA	32	11	0	0	0	0	0	0	0	0
NEARBYA FLORIDANA	0	0	0	0	0	11	0	0	0	0
CRASSINELLA CF. LUNULATA	11	85	21	11	53	0	0	0	203	0
LAMELLICARDIUM MORTONI	0	0	0	21	11	0	0	0	0	0
TRACHICARDIUM MURICATUM	0	0	11	0	0	0	0	0	0	0
MULTICA LATERALIS	0	0	0	0	0	0	0	11	0	0
MACOMA TENIA	0	0	0	0	0	0	0	0	0	0
MACOMA BREVIIFRONS	21	0	0	0	11	0	0	0	0	0
TELLINA SP.	0	11	75	0	0	0	21	0	0	0
TELLINA VERSICOLOR	0	0	0	21	21	32	0	11	43	117
TELLINA AEGISIRIATA	0	0	0	0	0	0	11	11	11	0
TELLINA CAMPAENSIS	0	0	0	0	0	0	0	11	0	0
TAGELLUS DIVISUS	0	0	11	21	32	21	43	0	21	21
SEMEL PROFICUA	0	11	0	0	0	0	0	0	0	0
SEMEL SP. (JUV.)	0	0	0	11	0	0	0	0	0	0
ARCA AEGUALIS	0	11	85	107	11	11	43	0	235	75
POLYDORA CAROLINIANA	0	0	0	11	0	11	0	0	32	11
TRANSIMELLA CONRADINA	0	0	11	0	11	0	0	11	43	0
BRECHINARIA CAMPECHIENSIS	0	0	11	0	0	0	0	0	11	0
CHORUS CANCELLATA	0	0	0	11	0	0	0	0	11	0
CORPULA CONTRACTA	0	11	0	0	21	0	0	0	0	0
LYRATA HYALINA FLORIDANA	0	0	0	43	21	43	0	0	0	21
ASTHODIA HAERUS HEMPHILLI	0	0	0	0	0	0	11	0	0	11
CARDIUM GEMMA	0	0	0	0	0	0	0	0	0	11
DIPLALUM LAQUATUM	0	0	0	0	0	11	0	0	0	0
DIPLALUM PETIOLATUS	0	0	0	0	11	0	0	0	0	0
DIPLALUM LAQUATUM	11	128	117	213	203	85	75	53	224	96
DIPLALUM POLLEX	0	11	360	64	0	11	11	21	32	53
DIPLALUM SETIPUNCTATA	0	0	0	0	0	11	0	0	0	32
DIPLALUM COPEPODA	11	0	32	107	192	53	181	11	0	0
DIPLALUM COPEPODA	11	0	0	11	32	11	0	0	0	0
DIPLALUM COPEPODA	0	0	0	0	0	11	0	21	0	21

BENTHOS ABUNDANCE BY STATION AND SPECIES

NUMBER PER SQUARE METER
SEPTEMBER 1983[illegible]

NUMBER PER SQUARE METER
SEPTEMBER 1983

SPECIES NAME	31	32	33	34	35	36	37	38	39	40
LOUTHER FAXONI	0	0	0	0	43	21	11	0	0	0
CARIDEA SP.	0	0	0	64	0	0	11	0	43	0
LEPTOCHELA SERRATORBITA	0	0	0	0	32	11	0	0	11	0
ALBIUS DIETROCHAELTS	11	0	0	0	0	0	0	0	0	0
AUTOMATE OF EVERMANNI	0	0	0	0	0	11	21	0	11	0
OCYRTES ALPHAEOSTRIS	0	0	0	0	0	11	0	0	0	0
HYPOLYTE PLEURACANTHUS	11	75	0	0	0	0	0	0	21	0
TOUR SP.	0	0	0	11	0	0	0	0	0	0
GEORGIA AFFINIS	11	0	11	32	0	11	0	0	11	32
PAGURIDAE SP.	0	43	0	0	75	0	0	0	117	0
PAGURUS BREVIDACTYLUS	0	11	11	0	0	0	0	0	43	0
PETROLISTHES ARMATUS	0	0	0	21	0	0	0	0	0	0
PRACHARA SP. (JUV.)	0	0	75	11	139	11	32	11	75	53
FEALIA SP.	0	0	0	11	0	0	0	0	0	0
DIETROCRYPTA GRANULATA	0	0	0	0	32	0	0	0	0	0
XANTHIDAE SP.	0	0	0	11	0	0	0	0	0	0
NEOPANDPE TEXANA TEXANA	21	0	0	0	0	0	0	0	0	0
DIETROPHANOPEUS HARRISII	0	75	0	32	0	0	0	0	21	0
EUPHYLAX NITIDA	0	0	0	11	0	0	0	0	0	0
PINNIHIPPIDAE SP.	0	0	21	21	32	32	11	11	21	64
PINNI-A CHAETOPTERANA	0	0	0	0	213	0	0	0	0	21
PINNI-A PEARSEI	0	0	0	0	0	64	0	0	0	11
SIPRACULA SP.	0	0	0	0	0	11	0	0	0	11
PLASION SP.	0	0	85	32	0	11	0	0	395	0
FLORIS ARCHITECTA	0	0	0	0	0	0	0	0	0	0
BRYOZOA SP-ECTOPROCTA	0	0	0	0	0	0	11	0	0	0
GLUTIDIA PYRAMIDATA	0	0	0	0	21	0	0	0	0	299
AMPHURIDAE SP.	0	0	21	21	21	21	96	0	0	0
AMPHURIDAE PULCHELLA	0	0	0	0	0	0	0	0	0	0
AMPHIPHILIS GRACILLIMA	0	0	0	0	0	0	0	0	0	0
OCYTOBRAGMUS FILOGRANEUS	0	0	11	0	0	0	0	0	0	32
OCYTOBRAGMUS SP.	0	0	0	0	0	0	11	11	0	0
OPACOTRAGMUS SP.	0	0	0	0	0	11	0	0	0	0
AMPHIPLUS ABDITUS	0	0	43	32	0	0	0	0	0	0
AMPHIPLUS THROMBOIDES	11	0	11	0	0	0	0	0	0	21
AMPHIPLUS CUNEATUS	0	32	0	0	0	0	0	0	0	0
AMPHIPLUS INCISUS	0	0	0	0	0	0	0	0	0	11
PROTHURIDAE SP.	0	0	11	0	21	0	0	0	64	0
PROTHURIDAE SP.	0	0	0	0	0	0	0	0	0	11
PROTHURIDAE SP.	0	0	0	0	0	0	0	21	11	0
PROTHURIDAE SP.	0	0	0	0	43	0	11	0	0	0
PROTHURIDAE CARIBAEUM	0	0	0	0	0	0	0	0	0	0
TOTAL DENSITY	6208	6389	9331	16309	13376	3808	2773	7051	19957	7541
TOTAL NUMBER OF SPECIES	74	99	106	127	119	85	67	75	128	92

BENTHOS
JUNCUS MARSH DENSITY, BIOMASS, AND HEIGHT

JUNE 1983

LOCATIONS	STATION						THUMB ISLAND	FENCE	DAVIS ISLAND
	UPPER SALT CREEK	LOWER SALT CREEK	CONTROL	MIDWAY	THERMAL				
1									
LIVE HEIGHT									
LIVE WEIGHT	312.933	381.867	482.700	339.467	236.740		242.617	164.097	406.213
LIVE DENSITY	89.333	139.000	135.333	91.667	77.000		45.000	65.000	115.667
DEAD WEIGHT	144.123	137.523	182.987	82.787	107.810		118.780	113.233	165.667
2									
LIVE HEIGHT									
LIVE WEIGHT	309.167	273.967	206.600	277.133	157.170		232.997	178.207	377.573
LIVE DENSITY	161.000	90.000	57.333	72.000	56.333		71.333	37.667	99.333
DEAD WEIGHT	158.650	114.197	84.727	110.123	104.377		94.693	101.520	84.483
3									
LIVE HEIGHT									
LIVE WEIGHT	274.817	291.300	437.967	307.013	284.983		232.293	227.133	285.767
LIVE DENSITY	122.333	83.000	87.000	101.000	114.500		66.333	67.000	71.000
DEAD WEIGHT	69.653	128.460	166.180	154.210	159.530		122.727	115.460	133.910
4									
LIVE HEIGHT									
LIVE WEIGHT	271.623	284.187	393.520	329.733	189.670		267.340	293.043	321.733
LIVE DENSITY	115.333	106.000	82.333	66.333	78.667		41.667	80.333	130.667
DEAD WEIGHT	194.863	143.870	130.280	104.480	112.763		114.120	103.230	153.173

BENTHOS

SPARTINA MARSH DENSITY, BIOMASS, AND HEIGHT

JUNE 1983

STATION

LOCATIONS	UPPER SALT CREEK	LOWER SALT CREEK	CONTROL	MIDWAY	THERMAL	THUMB ISLAND	FENCE	DAVIS ISLAND
1								
LIVE HEIGHT								
LIVE WEIGHT	312.933	381.867	482.700	339.467	236.740	242.617	164.097	406.213
LIVE DENSITY	89.333	139.000	135.333	91.667	77.000	45.000	65.000	115.667
DEAD WEIGHT	144.123	137.523	182.987	82.787	107.810	118.780	113.233	165.667
2								
LIVE HEIGHT								
LIVE WEIGHT	309.167	273.967	206.600	277.133	157.170	232.997	178.207	377.573
LIVE DENSITY	161.000	90.000	57.333	72.000	56.333	71.333	37.667	99.333
DEAD WEIGHT	158.650	114.197	84.727	110.123	104.377	94.693	101.520	84.483
3								
LIVE HEIGHT								
LIVE WEIGHT	274.817	291.300	437.967	307.013	284.983	232.293	227.133	285.767
LIVE DENSITY	122.333	83.000	87.000	101.000	114.500	66.333	67.000	71.000
DEAD WEIGHT	69.653	128.460	166.180	154.210	159.530	122.727	115.460	133.910
4								
LIVE HEIGHT								
LIVE WEIGHT	271.623	284.187	393.520	329.733	189.670	267.340	293.043	321.733
LIVE DENSITY	115.333	106.000	82.333	66.333	78.667	41.667	80.333	130.667
DEAD WEIGHT	194.863	143.870	130.280	104.480	112.763	114.120	103.230	153.173

BENTHOS
JUNCUS MARSH DENSITY, BIOMASS, AND HEIGHT
JULY 1983

LOCATIONS	STATION						
	UPPER SALT CREEK	LOWER SALT CREEK	CONTROL	MIDWAY	THERMAL	THUMB ISLAND	FENCE
1							
LIVE HEIGHT							
LIVE WEIGHT	183.800	255.500	350.767	122.697	69.970	190.500	176.567
LIVE DENSITY	109.000	107.333	106.667	44.000	31.000	67.333	59.000
DEAD WEIGHT	121.227	92.713	254.167	58.520	51.580	110.113	108.400
							243.350
							71.667
							197.230
2							
LIVE HEIGHT							
LIVE WEIGHT	259.400	312.067	350.500	334.167	118.600	146.250	181.013
LIVE DENSITY	124.333	118.333	92.667	122.333	83.000	76.000	50.000
DEAD WEIGHT	162.800	197.633	213.333	191.240	43.877	92.387	87.030
							144.867
							44.333
							142.800
3							
LIVE HEIGHT							
LIVE WEIGHT	136.313	201.567	256.767	247.967	145.833	187.200	235.800
LIVE DENSITY	68.000	58.333	72.000	78.000	68.000	64.667	51.333
DEAD WEIGHT	95.843	93.477	119.370	123.680	103.157	98.037	101.663
							121.517
							54.333
							33.067
4							
LIVE HEIGHT							
LIVE WEIGHT	173.147	313.067	328.567	324.300	189.300	114.133	326.700
LIVE DENSITY	110.667	140.333	80.000	99.000	119.000	46.333	76.333
DEAD WEIGHT	169.467	186.900	185.200	115.657	161.900	43.033	130.100
							150.400
							48.000
							90.783

BENTHOS
JUNCUS MARSH DENSITY, BIOMASS, AND HEIGHT
SEPTEMBER 1983
STATION

LOCATIONS	UPPER SALT CREEK	LOWER SALT CREEK	CONTROL	MIDWAY	THERMAL	THUMB ISLAND	FENCE	DAVIS ISLAND
1								
LIVE HEIGHT								
LIVE WEIGHT	209.533	253.233	252.000	63.720	170.527	165.733	212.333	404.067
LIVE DENSITY	71.667	130.333	67.667	26.500	67.667	60.000	67.333	131.667
DEAD WEIGHT	63.320	153.700	126.467	18.200	73.790	73.693	57.327	203.207
2								
LIVE HEIGHT								
LIVE WEIGHT	186.333	277.700	358.067	290.500	209.333	171.467	219.100	128.617
LIVE DENSITY	106.333	122.000	94.333	86.667	73.333	73.667	77.333	51.667
DEAD WEIGHT	151.800	118.700	152.000	74.300	76.683	67.323	143.250	64.717
3								
LIVE HEIGHT								
LIVE WEIGHT	152.367	209.333	286.267	196.500	211.233	232.200	174.167	150.867
LIVE DENSITY	77.000	96.333	87.333	79.000	95.333	87.333	51.667	70.000
DEAD WEIGHT	94.987	84.490	140.233	50.530	113.310	87.303	114.083	66.413
4								
LIVE HEIGHT								
LIVE WEIGHT	148.600	180.700	224.300	213.200	175.600	193.900	238.433	213.900
LIVE DENSITY	87.667	88.333	67.667	77.000	104.333	66.667	67.667	76.333
DEAD WEIGHT	124.667	77.740	112.967	77.127	53.900	129.130	124.117	103.400

SPARTINA MARSH DENSITY, BIOMASS, AND HEIGHT

SEPTEMBER 1983

STATION

LOCATIONS	UPPER SALT CREEK	LOWER SALT CREEK	CONTROL	MIDWAY	THERMAL	THUMB ISLAND	FENCE	DAVIS ISLAND
1								
LIVE HEIGHT								
LIVE WEIGHT	209.533	253.233	252.000	63.720	170.527	165.733	212.333	404.067
LIVE DENSITY	71.667	130.333	67.667	26.500	67.667	60.000	67.333	131.667
DEAD WEIGHT	63.320	153.700	126.467	18.200	73.790	73.693	57.327	203.207
2								
LIVE HEIGHT								
LIVE WEIGHT	186.333	277.700	358.067	290.500	209.333	171.467	219.100	128.617
LIVE DENSITY	106.333	122.000	94.333	86.667	73.333	73.667	77.333	51.667
DEAD WEIGHT	151.800	118.700	152.000	74.300	76.683	67.323	143.250	64.717
3								
LIVE HEIGHT								
LIVE WEIGHT	152.367	209.333	286.267	196.500	211.233	232.200	174.167	150.867
LIVE DENSITY	77.000	96.333	87.333	79.000	95.333	87.333	51.667	70.000
DEAD WEIGHT	94.987	84.490	140.233	50.530	113.310	87.303	114.083	66.413
4								
LIVE HEIGHT								
LIVE WEIGHT	148.600	180.150	224.300	213.200	175.600	193.900	238.433	213.900
LIVE DENSITY	87.667	88.333	67.667	77.000	104.333	66.667	67.667	76.333
DEAD WEIGHT	124.667	77.740	112.967	77.127	53.900	129.130	124.117	103.400

BENTHOS

OYSTER MORTALITY - MONTHLY EXPOSURE

STATIONS	MONTH OF SAMPLING	
	AUGUST	
	LIVE	DEAD
	NUMBER OF OYSTERS	NUMBER OF OYSTERS
1	63	27
2	75	15
3	64	26
4	46	43
5	39	51
6	47	43
7	70	20
8	72	18
9	75	15

BENTHOS

OYSTER MORTALITY - MONTHLY EXPOSURE

STATIONS	MONTH OF SAMPLING			
	SEPTEMBER			
	LIVE	DEAD	NUMBER OF	OYSTERS
1	62			26
2	56			30
3	47			41
4	41			43
5	18			71
6	50			38
7	54			29
8	49			34
9	63			27

BENTHOS

OYSTER MORTALITY - TWO MONTH EXPOSURE

STATIONS	MONTH OF SAMPLING		
	SEPTEMBER		
	LIVE	DEAD	
	NUMBER OF OYSTERS	NUMBER OF OYSTERS	
1	42	46	
2	60	30	
3	47	43	
4	19	66	
5	13	77	
6	38	49	
7	43	40	
8	21	66	
9	50	23	

BENTHOS

OYSTER MORTALITY - MONTHLY EXPOSURE

STATIONS	MONTH OF SAMPLING	
	OCTOBER	DEAD
	LIVE	NUMBER OF OYSTERS
1	66	23
2	58	29
3	51	39
4	42	47
5	31	53
6	36	52
7	46	35
8	52	37
9	68	20

SURFACE AND BOTTOM TEMPERATURES (DEGREES C) BY STATION AND WEEK OF
JUNE 1983

STATION	JUNE 9, 1983		JUNE 15, 1983		JUNE 22, 1983		JUNE 30, 1983	
	SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM
1	29.0	28.9*	28.9	28.3	30.4	30.4*	29.2	29.2*
2	29.2	29.1*	28.2	27.7	30.4	30.4*	29.8	29.9*
3	29.2	28.5*	28.3	27.4	30.6	29.4*	30.3	30.1*
4	28.6	28.4	27.7	28.1	29.4	29.1	30.4	30.5
5	28.5	28.3	27.7	28.2	29.6	29.4	30.4	30.6
6	28.3	19.4	27.8	27.6	29.6	29.2	30.4	30.3
7	28.6	22.5	27.8	27.7	29.5	28.9	30.4	30.4
8	28.8	28.5	28.0	27.7	29.4	28.6	30.6	30.3
9	28.9	28.6	28.0	27.4	28.4	28.4*	31.2	30.6
10	28.8	28.7*	28.2	27.7	29.6	28.4*	30.9	29.9
11	28.9	28.7*	28.2	28.0	28.1	28.1*	30.2	29.9
12	29.0	28.7*	28.4	28.0	28.3	28.3*	30.3	29.9
13	29.8	30.0	29.7	29.4	32.6	32.6	31.3	31.3
14	28.5	28.5	29.0	29.0	30.2	30.5	30.9	31.1
15	28.9	28.1	28.7	28.3*	29.0	29.0	30.8	30.5
16	28.9	28.4*	28.7	27.9*	29.2	28.8	30.9	30.4
17	31.5	31.5	30.1	30.1	34.1	33.8*	31.7	31.7
18	30.3	30.1	30.2	31.4	32.1	32.0*	33.3	33.1
19	29.1	29.3	29.8	31.6	31.9	31.9*	32.2	32.2*
20	28.7	28.8	29.4	30.2	29.8	29.5*	31.7	31.1
21	28.8	28.3	29.1	29.8*	29.7	29.2*	31.2	30.5
22	28.8	28.3	29.1	38.1*	28.5	28.8*	32.2	30.3
23		*	28.4	27.8*	28.5	28.1*	31.6	29.6
24	27.8	28.0*	28.1	27.8	28.3	28.2*	30.2	29.6
25	28.8	28.2*	28.1	27.8	28.3	28.2*	30.1	29.7
26	28.9	28.1*	28.4	28.0	28.3	28.1*	30.0	29.7
27	29.2	29.3	28.0	28.0	29.3	29.2*	30.5	30.7
28	29.6	29.3	28.1	28.3	30.8	29.6*	31.5	31.0
29	28.9	28.9	29.3	29.5	28.6	28.6*	33.2	31.3
30	28.4	28.1*	28.9	28.4	28.5	28.5*	31.9	30.2
31	28.2	28.2	28.2	27.2	28.9	28.8	30.4	30.4*
32	28.3	28.2	27.9	27.9	28.9	28.9	30.6	30.4*
33	28.2	28.2	28.1	27.4	28.4	28.4*	30.6	30.1*
34	28.5	28.2	28.0	27.3*	28.4	28.4	30.6	30.2*
35	23.2	28.8*	28.3	28.0	28.9	28.6*	29.9	29.6*
36	28.6	28.6*	28.2	28.1	28.8	28.6*	24.9	27.8*
37	28.7	28.7*	28.8	28.1	28.6	28.5*	30.2	29.8*
38	28.5	28.2	28.9	28.6*	28.9	28.9	29.6	29.7*
39	28.6	28.3*	27.9	27.2*	29.1	28.8	29.9	29.8*
40	28.9	28.6*	28.3	28.0	28.8	28.4	30.7	29.9

* OUTSIDE TIDE WINDOW

SURFACE AND BOTTOM TEMPERATURES (DEGREES C) BY STATION AND WEEK OF
JULY 1983

STATION	JULY 7, 1983		JULY 12, 1983		JULY 20, 1983		JULY 26, 1983	
	SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM
1	30.4	30.6*	30.6	30.3*	31.6	31.6*	29.0	29.0*
2	30.3	30.9*	30.3	30.2*	31.6	31.2*	28.9	28.9*
3	30.5	30.7*	30.2	30.0*	31.2	31.0*	29.4	29.4*
4	36.5	31.1	29.6	30.3	31.2	32.3*	28.7	29.0
5	30.6	31.4	29.6	30.3	31.7	31.5	29.0	29.0
6	30.9	31.1	29.8	29.8	31.5	31.9	29.0	29.1
7	31.4	31.1	29.8	29.8	31.1	31.3	29.1	29.0
8	31.3	31.0*	30.1	30.2	31.2	31.1	28.9	29.2
9	31.8	31.0*	30.2	30.1	31.1	31.0	29.3	29.5
10	30.5	30.5	30.5	30.5	30.6	30.7	29.8	30.0
11	30.5	30.5	30.0	30.0	30.8	30.8	29.9	29.9
12	30.5	30.5	30.0	30.0	31.0	30.8	29.9	30.1
13	32.7	32.6	31.0	30.8	32.3	33.4	29.3	29.3
14	32.3	32.0	30.8	31.3	31.7	31.8	29.3	30.4
15	31.6	30.9	30.3	30.3	31.4	31.0	29.0	29.9
16	30.5	30.5	30.5	30.0	30.5	30.8	29.9	29.9
17	33.0	33.4	30.9	30.9	33.7	33.8	29.1	29.1
18	32.5	32.8	32.2	31.3	32.1	33.6	29.5	30.7
19	32.4	32.4	31.6	31.7	31.7	33.9	30.1	31.6
20	32.3	31.4	31.8	31.6*	30.9	30.9	29.7	31.8
21	31.8	31.2	31.7	31.6*	30.8	30.8	29.5	32.3
22	31.3	30.8	31.5	30.7*	30.8	30.9	29.7	31.1
23	31.0	30.5	31.5	30.5	30.8	30.9	30.4	30.7
24	30.5	30.5	30.0	30.0	31.0	30.9	30.2	30.1
25	30.5	30.5	30.0	30.0	30.8	30.8	29.8	29.8
26	30.5	30.5	30.0	30.0	30.7	30.7	29.8	29.9
27	32.2	30.9	29.5	29.6	30.6	31.0	30.0	29.0
28	32.1	33.0	29.8	29.8	31.3	33.2	29.8	29.5
29	31.5	31.2	32.0	32.2	31.1	31.0	30.7	31.8
30	31.3	31.0	31.3	31.2	30.9	30.8	30.7	30.8
31	31.0	30.9	29.9	30.0*	30.5	30.6*	29.1	29.1*
32	31.3	31.0	30.2	30.2*	30.7	30.7*	29.3	29.1*
33	31.3	30.9*	30.0	30.0*	30.9	30.8*	29.5	29.5*
34	31.5	30.8*	30.5	30.1*	31.2	31.1*	29.7	29.7*
35	30.0	29.8*	30.0	30.0*	31.2	31.1*	30.0	30.0*
36	30.0	29.5*	30.0	30.0*	31.1	31.0*	30.0	30.0*
37	29.8	29.0*	30.5	30.5*	31.1	30.9*	30.1	29.9*
38	30.5	30.5*	30.1	30.1*	30.8	30.8*	29.3	29.2*
39	30.7	30.6*	29.7	30.0*	31.0	30.6*	29.2	29.3
40	31.0	30.5	30.5	30.0*	31.2	31.1*	30.1	30.0*

* OUTSIDE TIDE WINDOW

SURFACE AND BOTTOM TEMPERATURES (DEGREES C) BY STATION AND WEEK OF
AUGUST 1983

STATION	AUGUST 3, 1983		AUGUST 10, 1983		AUGUST 19, 1983		AUGUST 24, 1983		AUGUST 30, 1983	
	SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM
1	29.7	29.7*	31.2	30.5*	31.4	30.9*	30.8	30.8*	30.7	30.8*
2	30.0	29.8*	30.2	30.0*	32.3	30.8*	30.8	31.3*	30.6	30.6*
3	29.8	30.2*	30.3	30.3*	31.1	30.1*	30.5	31.0*	30.9	30.4*
4	28.9	30.9	29.7	31.1	30.4	32.9	30.1	31.3	31.7	31.7
5	27.8	30.8	29.7	31.0	30.4	32.8	30.7	31.3	32.1	32.2
6	28.5	30.7	29.9	29.9	30.4	31.2	30.5	31.2	32.3	32.6
7	28.7	29.9	30.1	30.4	31.1	30.7	30.8	31.6	32.6	32.5
8	28.6	29.4	30.4	30.5	31.3	30.6	30.6	31.6	32.9	31.9
9	29.1	29.4	30.5	30.5	31.2	30.5	30.7	31.1	32.5	31.5
10	28.8	29.3	30.2	30.4	30.9	30.2	31.0	31.6	32.4	31.6
11	28.8	29.3	30.8	30.1	30.8	30.1	31.9	32.0	31.4	31.0
12	29.0	29.6	30.2	30.1	30.3	30.0	31.7	31.5*	31.0	30.8
13	32.0	32.6	30.0	30.9	34.6	35.8	31.8	31.8	33.2	33.2
14	30.0	30.7	30.7	32.3	33.2	33.3	31.8	32.3	33.6	33.5
15	29.2	30.1	31.0	30.8	31.0	30.8	30.8	31.9	32.9	32.9
16	29.2	29.4	31.4	30.7	31.5	30.5	32.3	32.3	32.8	32.7
17	34.4	34.4	31.7	31.7	34.3	36.2	32.0	32.0	34.0	33.9
18	32.3	32.4	31.6	33.9	33.5	34.9	31.9	33.8	34.6	35.3
19	32.9	32.9	33.6	33.6	33.9	35.0	36.5	36.5	37.0	36.5
20	30.5	30.4	31.5	32.8	32.7	32.0	32.7	34.5	33.3	34.0
21	30.0	30.0	31.2	31.2	32.2	31.4	32.1	34.0	33.4	34.6
22	29.8	29.8	32.7	30.8	32.7	30.7	33.9	33.6	34.1	34.5
23	29.4	29.4	33.1	30.5	32.4	30.6	33.7	31.6	33.1	31.0
24	28.9	29.1	31.8	30.1	32.7	30.5	32.0	31.5	31.7	30.9
25	28.8	29.5	30.6	30.1	31.2	30.1	31.5	31.5	31.0	30.8
26	29.1	29.5	30.4	30.1	31.1	30.4	31.5	31.4	31.0	30.8
27	30.7	30.7	30.0	30.0	32.7	31.8	31.1	31.1	31.5	31.5
28	32.7	31.7	30.6	31.0	33.8	33.4	31.8	31.8	32.0	31.7
29	30.3	30.3	35.0	33.5	33.4	31.6	36.2	36.2	34.3	35.4
30	29.8	29.8	34.1	31.5	33.1	30.8	35.0	33.2	32.9	32.9
31	29.1	29.2*	30.1	30.2*	31.1	30.9	31.4	31.5*	30.4	30.4*
32	29.2	29.2*	30.4	30.4*	31.7	31.3*	31.3	31.3*	30.4	30.4*
33	29.2	29.1*	30.3	30.2*	31.6	31.0*	31.1	31.7*	30.6	30.2*
34	29.4	29.3*	30.5	30.2*	31.7	30.9*	31.7	31.6*	30.2	30.1*
35	29.3	29.1*	30.2	30.2*	30.5	30.5*	31.6	31.6*	30.4	30.4*
36	29.3	29.1*	30.5	30.5*	31.1	30.5*	31.7	31.8*	30.4	30.5*
37	29.5	29.5*	30.5	30.3*	31.7	30.3*	31.8	31.6*	30.5	30.5*
38	28.9	29.1*	29.8	30.0*	30.3	30.4*	31.2	31.2	30.2	30.4*
39	28.9	29.1*	29.9	30.8*	30.3	30.4*	31.3	31.4	30.0	30.1*
40	29.3	29.4*	30.5	30.4*	31.9	30.4*	31.9	31.8*	30.4	30.2*

* OUTSIDE TIDE WINDOW

SURFACE AND BOTTOM TEMPERATURES (DEGREES C) BY STATION AND WEEK OF
SEPTEMBER 1983

STATION	SEPTEMBER 6, 1983		SEPTEMBER 12, 1983		SEPTEMBER 19, 1983		SEPTEMBER 27, 1983	
	SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM
1	30.0	30.0*	28.8	28.8*	26.5	27.1*	27.4	25.7*
2	29.9	29.9*	29.5	30.2*	27.4	27.9*	25.5	25.1*
3	30.0	30.0*	29.8	29.9*	27.4	27.6*	24.8	25.0
4	32.1	31.7	30.6	31.8	28.2	28.6	23.9	24.0*
5	31.7	31.8	30.8	30.8	28.4	28.3	24.1	25.4*
6	30.9	31.3	30.9	30.9	28.8	28.2	24.0	24.3*
7	30.7	30.7	30.8	31.0	28.4	27.9	24.8	25.4
8	31.0	30.4	30.8	30.8	28.3	27.9	24.7	24.6
9	30.5	30.5	31.4	30.9	28.4	28.2	24.5	24.7
10	31.2	30.1	31.1	30.8	27.8	27.5	24.6	24.2
11	30.1	30.1	31.5	30.9	27.6	27.6	24.2	24.1
12	30.1	29.9	30.0	30.0*	27.8	27.8	24.5	24.4
13	32.9	33.9	31.8	31.5	30.2	30.6	24.8	24.9*
14	31.7	31.5	31.9	32.5	29.1	28.7	25.0	25.0*
15	30.9	30.8	31.0	31.3	28.7	28.0	25.0	24.8
16	31.1	30.3	31.5	31.5	27.9	27.5	25.2	25.1
17	36.0	36.3	37.0	37.2	33.4	33.4	24.8	24.9*
18	34.6	32.7	31.8	33.0	31.2	30.6	25.3	25.9
19	33.2	31.5	33.6	34.7	30.4	28.9	26.3	26.3
20	32.8	31.0	32.8	34.5	29.0	28.1	25.6	25.4
21	32.4	30.6	32.9	34.5	28.9	28.0	25.2	25.5
22	30.7	30.3*	33.5	33.4	28.1	27.5	25.6	25.6
23	31.2	30.2	33.2	31.0	27.5	27.3	26.5	26.5
24	30.3	30.2	31.5	30.5	27.4	27.3	24.6	24.2
25	30.2	30.1	30.3	30.2	27.5	27.4*	24.5	24.2
26	30.5	30.1	30.3	30.3*	27.9	27.6	24.2	24.2
27	34.5	31.4	31.1	31.1	29.0	28.9*	23.4	23.4*
28	32.9	31.8	31.4	31.4	29.7	28.8	24.3	24.3*
29	31.3	30.5	36.5	36.3	28.4	27.7	27.9	27.9
30	31.1	30.2	33.8	31.4	27.9	27.5	25.9	25.9
31	30.0	30.0*	30.2	30.2*	26.7	27.2*	23.2	23.1*
32	29.9	29.8*	30.2	30.2*	27.1	27.1*	23.1	23.3*
33	29.8	30.0*	30.2	30.4*	27.3	27.3*	23.3	23.3*
34	29.3	29.6*	29.9	30.1*	26.7	27.1*	23.8	23.8*
35	29.5	29.5*	30.1	30.1*	27.0	27.0*	23.9	23.9*
36	29.5	29.5*	30.0	30.0*	26.9	27.0*	23.8	23.9*
37	29.7	29.7*	30.0	30.0*	26.8	27.1*	23.8	23.8*
38	29.3	29.4*	30.1	30.2*	26.7	26.7*	25.7	25.6
39	31.2	29.8*	30.3	30.3*	26.9	27.1*	24.1	23.6
40	29.7	29.7*	30.0	30.2*	27.0	26.9*	23.5	23.5*

* OUTSIDE TIDE WINDOW

SURFACE AND BOTTOM TEMPERATURES (DEGREES C) BY STATION AND WEEK OF
OCTOBER 1983

STATION	OCTOBER 5, 1983		OCTOBER 10, 1983		OCTOBER 18, 1983		OCTOBER 26, 1983	
	SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM
1	25.8	26.3*	26.8	26.7*	25.4	25.6*	22.8	22.8*
2	26.8	26.8*	26.8	26.9	25.4	25.6*	22.2	22.2*
3	26.4	26.3*	26.8	26.8	25.3	25.6*	22.3	22.3
4	27.4	27.4*	26.3	27.6*	25.9	27.3	22.4	23.6*
5	27.4	27.4	26.5	27.3*	26.1	26.8	22.7	25.3*
6	27.4	27.1	27.0	27.0*	26.4	26.0	22.7	23.5*
7	27.6	27.0	28.0	27.6*	26.5	26.4	24.0	24.5
8	27.7	27.0	27.6	27.6*	26.3	26.1	23.6	24.5
9	27.2	26.9	27.2	27.2	25.9	26.0	24.0	23.5
10	26.8	26.4	27.2	27.1	25.3	25.2	23.2	23.2
11	26.5	26.2	27.0	26.9	25.4	25.3	23.1	22.7
12	26.3	26.1	27.0	26.8	25.5	25.3*	23.2	23.0
13	28.2	28.2	26.5	26.4*	29.4	29.7	23.1	23.1*
14	27.6	27.5	26.8	26.9*	27.6	28.0	24.8	26.1
15	27.8	27.3	26.8	27.1	26.6	26.3	23.6	23.6
16	26.7	26.7	27.5	27.4	25.7	25.5	23.8	24.1
17	28.6	28.9	26.3	26.4*	31.7	31.8	22.9	23.1*
18	28.2	28.1	28.5	28.4	29.8	29.7	24.9	25.8
19	28.2	27.9	27.9	28.2	29.7	29.8	24.9	25.2
20	27.9	27.3	27.6	27.9	27.1	26.9	24.6	25.1
21	27.9	27.2	27.7	28.5	26.5	26.5	25.3	27.0
22	27.3	26.7	28.1	28.1	26.2	26.1	24.7	26.2
23	26.6	26.5	28.5	28.3*	25.7	25.2	24.8	25.5
24	26.6	26.4	27.1	27.1	25.4	25.0	23.6	23.4
25	26.3	26.2	26.9	26.6	25.5	25.3	23.5	23.5
26	26.4	26.2	26.6	26.6	25.5	25.4	24.2	23.4
27	28.5	28.4	26.4	26.4*	25.9	25.9	21.9	21.9*
28	28.2	28.1	27.0	26.9	27.5	27.5	22.8	22.8
29	27.3	27.3	28.9	28.9	27.4	27.3	26.1	26.2
30	26.9	26.8	28.2	28.1	25.9	25.6	25.3	25.4
31	26.9	26.8*	26.3	26.8*	24.5	24.6*	21.7	21.7*
32	26.8	26.8*	26.4	26.4*	24.6	24.7*	21.6	21.6*
33	26.8	26.8*	26.4	26.3*	24.8	24.8*	21.6	21.7*
34	26.3	26.2*	26.9	26.8	24.7	24.7*	22.3	21.2*
35	25.9	25.9*	26.6	26.5*	24.7	24.7*	23.0	23.0*
36	25.8	25.8*	26.5	26.5*	24.8	24.7*	23.0	23.0*
37	25.8	25.8*	26.4	26.4*	24.9	24.9*	22.9	22.9*
38	26.6	26.6*	27.6	27.7*	24.6	24.6*	24.0	23.9*
39	26.8	26.6*	27.0	27.1*	24.7	24.7*	23.2	22.8*
40	26.1	26.1*	26.4	26.7*	24.6	24.6*	22.7	22.7*

* OUTSIDE TIDE WINDOW

SURFACE AND BOTTOM TEMPERATURES (DEGREES C) BY STATION AND WEEK OF
NOVEMBER 1983

STATION	NOVEMBER 2, 1983		NOVEMBER 9, 1983		NOVEMBER 16, 1983		NOVEMBER 21, 1983	
	SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM
1	21.6	22.6*	21.5	21.5*	17.2	18.0*	19.4	18.3*
2	22.0	21.8*	21.3	21.5*	18.4	18.3*	18.3	18.3*
3	21.7	21.5*	21.3	21.3*	18.0	18.0*	18.3	18.0*
4	22.6	23.6	21.4	23.2*	18.2	18.3	17.5	17.8*
5	22.6	23.1	22.7	24.1*	18.3	19.0	17.9	19.8
6	22.4	22.6	22.4	23.4*	18.0	18.3	18.2	18.2
7	29.4	22.1	22.3	23.2	18.3	18.3	18.1	18.3
8	22.4	22.1	22.1	22.9	18.3	18.4	17.8	18.1
9	22.4	22.0	22.2	21.7	18.3	18.5	17.8	18.2
10	21.9	22.0	21.6	21.5	18.4	18.4	17.9	17.8
11	22.3	22.2	22.1	21.6	18.4	18.4	17.6	17.6
12	22.2	22.2	21.8	21.5	18.7	18.7	17.5	17.5
13	26.4	26.8	23.2	23.2*	20.8	20.8	22.5	22.5*
14	24.4	24.7	22.7	25.8	19.2	19.5	18.5	19.1
15	22.6	22.5	22.4	23.0	18.4	18.4	18.1	18.3
16	22.5	22.5	23.7	22.9	18.8	18.8	18.3	18.4
17	28.5	28.5	23.7	23.9*	19.9	20.0	26.5	26.5*
18	26.1	26.8	23.7	25.2	23.6	21.4	18.1	18.2
19	26.1	26.1	25.0	26.8	21.6	21.8	22.4	22.4
20	23.7	24.2	24.1	26.3	20.3	20.5	18.9	19.0
21	23.5	23.5	24.0	26.4	19.5	19.8	19.5	19.5
22	23.5	23.3	25.6	26.2	18.8	18.9	19.6	19.6
23	22.8	22.7	25.6	25.0	21.4	21.4	21.7	21.7
24	22.2	22.3	22.7	21.4	18.6	18.7	18.0	18.0*
25	22.3	22.3	21.5	21.5	18.6	18.6	17.0	17.4
26	22.4	22.3	21.4	21.4	18.7	18.7	17.0	17.0
27	24.6	24.5	21.2	21.2*	19.2	19.2	19.3	19.2*
28	25.5	25.6	21.9	21.6	21.7	21.3	17.4	17.5
29	24.5	24.6	27.3	27.3	21.3	21.3	22.0	22.0
30	23.3	23.3	26.7	26.7	20.7	20.7	21.1	21.1
31	21.9	21.1*	20.8	20.8*	17.7	17.7*	17.5	17.6*
32	22.0	22.0*	20.9	20.6*	18.0	18.1	17.5	17.5*
33	22.2	22.1*	20.7	21.0*	18.1	18.2	17.4	17.8*
34	22.3	22.3*	21.0	21.1*	19.1	19.1*	17.4	17.1*
35	22.1	22.1*	21.2	21.2*	18.8	18.8*	17.2	17.2*
36	22.1	22.1*	21.3	21.3*	18.8	18.8*	17.2	17.2*
37	22.3	22.3*	21.3	21.3*	18.8	18.8*	17.3	17.1*
38	21.9	21.0*	21.0	21.1	18.3	18.3*	18.1	18.1*
39	21.9	21.7*	20.9	20.6	18.1	18.0*	17.1	17.0*
40	22.0	21.9*	21.0	21.0*	18.5	18.5*	17.2	16.8*

* OUTSIDE TIDE WINDOW

SURFACE AND BOTTOM CONDUCTIVITY (MMHOS/CM) BY STATION AND WEEK OF
JUNE 1983

STATION	JUNE 9, 1983		JUNE 15, 1983		JUNE 22, 1983		JUNE 30, 1983	
	SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM
1	27.2	27.5*	18.0	23.3	19.8	19.5*	16.1	21.2*
2	28.9	29.9*	24.3	27.9	30.6	30.8*	27.0	35.8*
3	29.0	39.4*	26.9	31.7	39.4	40.4*	33.0	43.5*
4	26.1	30.2	26.5	35.8	32.7	36.3	31.6	38.5
5	23.4	31.5	28.1	35.0	34.3	38.8	33.0	39.3
6	28.1	32.4	28.0	30.8	36.3	38.9	28.8	39.4
7	31.9	37.6	28.8	35.3	40.3	40.5	37.3	44.0
8	33.7	37.2	30.8	35.1	41.0	41.3	36.4	44.6
9	32.6	38.9	31.4	35.5	42.8	42.9*	41.4	43.0
10	38.5	41.7	33.6	39.2	44.0	44.7*	43.9	46.1
11	38.2	41.3*	34.5	41.8	47.0	46.8*	47.7	49.1
12	39.7	41.9*	38.6	42.8	49.3	49.1*	51.2	50.5
13	34.6	35.5	35.5	37.5	46.7	46.7	41.2	41.5
14	32.2	32.3	29.7	36.5	41.7	43.3	35.3	42.8
15	32.1	36.4	31.8	35.9*	42.7	42.6	36.4	45.3
16	35.2	39.6*	35.1	39.6*	45.7	45.8	44.5	44.9
17	37.9	38.0	42.1	42.1	47.8	47.6*	46.9	46.9
18	35.3	35.5	39.7	43.6	46.3	26.6*	48.5	48.4
19	34.7	35.1	38.8	43.9	46.1	46.1*	47.2	47.2*
20	34.3	36.1	37.1	41.3	43.2	43.3*	43.5	45.3
21	34.1	36.8	33.3	32.7*	43.3	43.2*	41.1	45.5
22	34.6	38.0	33.7	39.5*	43.7	44.9*	45.2	45.8
23		*	37.3	38.4*	44.9	44.7*	46.3	46.3
24	37.7	32.6*	35.0	39.9	46.7	46.7*	46.7	48.9
25	39.0	42.0*	37.8	42.3	47.8	48.0*	50.6	50.7
26	39.9	43.9*	41.7	43.5	48.8	49.2*	51.2	51.4
27	35.5	35.5	35.2	35.3	40.8	40.7*	42.6	43.4
28	35.2	35.8	36.5	37.8	44.2	42.8*	45.3	43.5
29	36.9	37.2	37.4	39.8	44.1	44.1*	47.4	44.9
30	37.8	37.7*	37.8	37.4	44.6	44.6*	45.6	45.2
31	33.2	33.4	30.6	36.5	38.0	38.1	33.3	34.1*
32	34.0	34.2	35.5	35.5	38.5	38.6	32.8	33.2*
33	36.4	36.5	38.0	39.2	38.5	38.8*	34.6	37.9*
34	38.3	39.3	39.1	41.2*	41.8	41.8*	38.5	41.5*
35	40.0	41.2*	39.4	41.6	46.8	47.2*	43.1	48.9*
36	40.2	40.2*	43.9	43.8	47.9	48.2*	49.8	49.9*
37	42.9	42.8*	44.8	45.3	48.8	48.6*	50.0	50.8*
38	27.3	31.3	25.2	25.1*	34.7	34.8	28.6	36.9*
39	33.1	34.9*	34.7	38.5*	42.1	43.3	34.1	37.1*
40	38.4	43.6*	41.4	44.7	47.2	46.9	43.7	48.6

* OUTSIDE TIDE WINDOW

SURFACE AND BOTTOM CONDUCTIVITY (MMHOS/CM) BY STATION AND WEEK OF
JULY 1983

STATION	JULY 7, 1983		JULY 12, 1983		JULY 20, 1983		JULY 26, 1983	
	SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM
1	33.6	36.5*	25.1	26.7*	28.5	28.3*	12.6	16.3*
2	35.8	40.3*	26.8	33.1*	33.6	35.4*	19.6	19.3*
3	43.3	45.0*	29.4	37.0*	39.4	41.9*	31.9	32.0*
4	28.8	37.3	25.4	33.9	29.5	35.6*	16.9	21.7
5	29.3	39.3	25.8	33.8	33.8	34.2	17.3	23.0
6	35.0	38.2	26.9	31.8	34.0	36.5	20.6	21.0
7	38.5	41.4	31.4	36.0	36.0	36.0	25.1	25.1
8	40.9	44.7*	32.9	39.4	36.6	37.3	21.5	23.1
9	40.6	46.2*	37.5	39.5	39.3	40.1	26.4	31.4
10	42.0	45.1	38.0	42.0	44.0	45.2	34.5	37.6
11	47.1	48.4	41.2	42.5	48.4	48.5	37.4	38.5
12			45.0	46.0	50.5	50.6	39.0	41.8
13	43.9	45.1	41.0	40.9	40.8	46.9	29.3	29.3
14	41.6	43.0	32.3	42.1	37.4	38.5	22.4	35.8
15	42.0	43.9	35.3	40.0	36.7	37.1	25.2	33.5
16	43.0	44.1	38.1	41.0	42.5	44.8	34.9	35.0
17	45.7	48.4	46.4	46.2	47.8	48.8	41.8	41.8
18	44.1	47.7	46.8	46.2	40.1	48.0	34.3	41.7
19	43.1	44.1	44.2	44.9	37.5	47.6	35.3	44.3
20	42.8	44.2	43.2	44.1*	37.5	38.3	30.0	43.2
21	43.4	45.6	43.3	43.6*	39.3	39.3	28.3	43.9
22	45.6	46.3	44.6	45.4*	40.6	42.4	30.3	38.1
23	44.5	44.5	41.5	43.0	43.3	41.9	36.5	40.2
24	47.0	47.3	43.0	44.0	46.7	46.8	39.5	42.6
25	49.0	49.5	45.5	46.5	48.4	48.4	41.3	44.2
26			47.0	48.0	50.1	50.1	41.1	44.7
27	43.1	42.9	41.1	41.2	36.9	40.2	38.9	38.9
28	43.3	45.8	41.9	42.0	37.0	45.6	38.1	39.0
29	44.3	46.3	45.8	46.3	41.2	41.3	37.9	42.5
30	46.6	47.4	44.0	44.2	42.5	42.6	38.3	38.5
31	40.5	41.2	33.8	35.4*	42.5	42.8*	37.2	36.9*
32	43.6	43.5	33.8	36.8*	43.7	44.0*	40.0	40.7*
33	45.2	45.6*	40.3	42.5*	44.9	44.9*	43.3	43.6*
34	48.4	49.1*	44.7	45.5*	45.8	45.9*	44.4	44.6*
35	48.5	48.8*	44.0	44.8*	47.1	47.0*	45.5	45.9*
36	48.5	49.0*	45.5	47.0*	47.0	47.0*	46.5	46.6*
37	48.1	49.8*	48.1	48.5*	47.9	49.8*	44.1	47.8*
38	34.3	31.2*	26.7	26.8*	37.0	39.0*	28.2	28.7*
39	43.0	43.3*	34.9	41.5*	44.3	45.1*	33.4	38.8
40	47.0	49.0	40.5	47.0*	48.4	48.3*	48.4	48.3*

* OUTSIDE TIDE WINDOW

SURFACE AND BOTTOM CONDUCTIVITY (MMHOS/CM) BY STATION AND WEEK OF
AUGUST 1983

STATION	AUGUST 3, 1983		AUGUST 10, 1983		AUGUST 19, 1983		AUGUST 24, 1983		AUGUST 30, 1983	
	SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM
1	15.5	19.8*	12.3	21.1*	19.6	30.4*	19.7	26.6*	7.9	7.9*
2	21.5	41.2*	22.6	30.1*	30.4	37.9*	20.8	34.1*	17.2	30.3*
3	32.5	43.3*	29.4	40.3*	36.6	42.8*	24.0	34.4*	29.6	37.7*
4	25.5	35.3	18.7	34.5	19.7	30.3	23.0	31.3	16.0	16.9
5	18.5	35.0	17.4	35.7	20.3	34.6	28.5	31.3	16.8	26.4
6	23.5	35.9	22.6	23.9	20.1	27.2	26.1	31.7	29.9	29.8
7	28.9	39.8	28.2	36.8	32.1	35.7	29.6	39.2	28.9	27.9
8	35.5	41.1	27.5	40.0	33.3	39.9	31.7	42.1	35.3	34.5
9	37.4	43.2	29.6	37.4	36.8	42.3	31.9	35.0	36.8	35.8
10	39.4	46.6	33.6	44.6	41.9	46.6	36.0	45.5	39.3	39.3
11	44.9	46.5	37.6	45.5	47.1	49.6	40.5	46.7	42.2	42.3
12	47.1	51.3	46.1	47.4	50.9	51.0	46.2	49.0*	46.2	46.1
13	42.9	43.7	36.1	36.3	42.4	47.3	42.9	44.2	36.1	36.3
14	34.4	39.8	27.3	41.3	36.6	40.7	32.6	38.2	35.2	37.1
15	35.7	41.7	30.7	37.4	35.5	41.9	31.1	44.7	35.6	35.7
16	40.6	44.7	37.6	42.2	41.0	45.6	38.2	42.2	39.7	39.7
17	47.4	47.4	41.1	41.1	41.7	48.0	45.8	45.8	48.5	48.4
18	44.3	44.3	39.7	46.2	36.3	44.4	40.8	45.4	46.6	47.4
19	44.5	44.4	44.5	44.5	37.7	44.3	50.2	50.1	51.4	50.2
20	39.2	42.8	37.8	42.1	37.6	41.1	39.7	45.2	40.0	43.8
21	38.4	43.0	35.5	42.7	37.1	43.6	35.6	44.2	40.3	45.3
22	40.3	44.2	39.9	44.4	37.7	45.8	43.8	44.4	43.2	44.4
23	42.6	44.6	43.5	44.3	42.2	46.7	43.7	45.8	40.4	43.7
24	43.2	44.1	42.0	46.5	43.9	47.6	43.7	46.2	41.7	45.1
25	46.3	49.9	44.9	49.0	48.5	49.8	49.1	49.2	46.3	46.2
26	48.0	50.9	46.9	49.8	50.9	51.3	49.7	50.3	45.9	46.6
27	41.7	41.7	38.6	38.6	40.0	39.3	40.4	40.4	41.0	41.0
28	42.9	42.8	39.8	41.5	41.2	42.1	41.0	41.0	39.3	40.2
29	41.0	43.1	45.5	42.8	38.6	44.0	48.2	48.3	44.0	47.2
30	42.9	43.9	45.3	43.9	41.4	45.7	47.0	46.1	40.5	40.5
31	34.4	37.5*	28.3	28.4*	38.3	38.0	35.1	35.9*	36.1	40.7*
32	34.2	38.0*	32.3	32.0*	40.2	40.6*	37.4	37.1*	36.7	42.6*
33	38.1	39.7*	36.0	40.0*	42.1	42.0*	37.2	44.1*	37.9	45.1*
34	41.3	43.5*	35.1	39.2*	45.3	45.9*	46.3	46.6*	43.3	44.6*
35	46.0	46.5*	45.1	45.2*	47.2	47.0*	48.2	48.2*	46.0	45.9*
36	46.1	47.0*	48.4	48.5*	48.8	48.8*	50.9	51.1*	46.6	46.6*
37	47.2	50.0*	50.0	50.2*	49.1	49.9*	52.8	52.7*	45.5	46.3*
38	31.8	34.6*	20.5	23.3*	30.3	30.3*	26.4	26.6	30.9	37.2*
39	38.3	41.8*	28.3	34.1*	39.3	40.1*	32.5	38.5	36.8	41.2*
40	43.4	48.0*	45.9	46.1*	47.0	46.9*	49.5	31.9*	45.5	48.3*

* OUTSIDE TIDE WINDOW

SURFACE AND BOTTOM CONDUCTIVITY (MMHOS/CM) BY STATION AND WEEK OF
SEPTEMBER 1983

STATION	SEPTEMBER 6, 1983		SEPTEMBER 12, 1983		SEPTEMBER 19, 1983		SEPTEMBER 27, 1983	
	SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM
1	24.8	27.7*	13.0	15.0*	16.6	21.4*	4.0	9.7*
2	33.4	36.6*	23.5	34.7*	33.7	40.4*	21.2	30.6*
3	36.6	42.2*	31.1	33.1*	38.2	43.2*	23.4	34.4
4	26.4	34.1	22.8	36.7	30.7	34.6	21.3	20.4*
5	32.1	37.9	25.4	27.7	29.7	34.5	16.5	23.8*
6	34.2	39.1	29.2	31.3	35.4	35.8	22.1	19.4*
7	40.1	42.5	29.4	40.8	36.6	40.6	23.4	20.7
8	40.9	42.2	33.1	33.1	38.2	40.2	25.1	27.5
9	43.0	44.6	34.8	35.2	40.8	42.3	23.3	21.1
10	45.5	47.2	36.7	43.9	42.2	45.0	28.1	32.6
11	50.0	50.5	44.4	44.9	46.2	46.6	30.6	31.1
12	51.5	51.2	45.9	45.6*	48.9	48.4	32.7	41.8
13	42.1	44.3	40.0	42.9	41.3	41.5	31.3	35.7*
14	38.1	42.2	32.4	40.8	39.5	39.6	26.7	27.0*
15	40.8	42.6	32.8	40.3	39.4	41.9	26.0	26.2
16	44.7	46.3	38.2	37.7	42.4	43.6	30.9	31.6
17	49.1	49.4	52.8	52.8	46.5	46.5	38.1	38.1*
18	45.8	44.0	42.5	47.3	43.5	42.8	34.5	38.3
19	44.9	44.0	45.5	48.4	42.8	42.4	35.3	35.7
20	43.4	43.8	42.9	47.9	40.5	42.3	33.8	35.2
21	42.8	43.8	42.5	46.9	41.1	42.5	33.4	35.8
22	44.1	44.3*	44.7	45.0	43.0	42.9	34.5	34.9
23	46.4	46.1	44.6	44.9	43.2	43.3	36.9	37.0
24	49.0	48.9	44.3	46.7	45.4	45.7	32.9	33.5
25	51.0	50.9	46.9	47.7	47.5	46.8*	35.8	36.8
26	52.3	52.2	49.1	48.8*	48.4	48.4	38.0	38.6
27	44.7	42.3	42.3	42.4	42.2	42.0*	36.2	36.3*
28	43.4	42.9	43.1	43.1	42.7	42.3	34.8	34.8*
29	44.8	44.2	51.0	50.7	42.5	42.7	40.4	40.4
30	46.0	45.2	46.4	46.5	43.5	43.4	35.3	35.4
31	32.4	32.9*	32.8	39.3*	28.5	32.5*	34.0	33.9*
32	33.0	33.0*	34.5	34.7*	35.0	35.2*	37.4	37.5*
33	31.7	40.3*	37.5	44.8*	37.5	38.3*	37.5	37.5*
34	34.0	45.8*	41.0	46.7*	37.3	40.1*	37.6	37.6*
35	44.3	44.0*	45.0	45.2*	40.7	41.9*	38.2	38.3*
36	47.8	47.8*	46.8	46.8*	44.0	44.8*	27.9	37.9*
37	50.0	49.9*	49.0	49.0*	45.5	46.1*	37.8	37.8*
38	21.0	23.3*	30.1	30.2*	21.6	21.9*	24.7	24.9
39	29.9	35.7*	36.7	43.9*	32.5	37.4*	28.7	33.2
40	45.5	45.9*	44.6	48.8*	41.5	41.9*	40.4	40.7*

* OUTSIDE TIDE WINDOW

SURFACE AND BOTTOM CONDUCTIVITY (MMHOS/CM) BY STATION AND WEEK OF
OCTOBER 1983

STATION	OCTOBER 5, 1983		OCTOBER 10, 1983		OCTOBER 18, 1983		OCTOBER 26, 1983	
	SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM
1	17.3	28.8*	7.7	17.5*	33.0	38.0*	0.7	0.9*
2	24.0	33.4*	22.2	30.3	37.2	42.3*	17.7	21.5*
3	31.0	35.5*	24.3	27.0	39.2	42.2*	23.0	23.6
4	28.5	30.2*	23.7	35.4*	28.6	37.5	20.4	27.4*
5	29.9	34.6	21.3	29.5*	30.1	38.2	18.3	25.5*
6	30.5	33.8	25.0	24.8*	30.4	39.2	23.4	24.4*
7	37.0	37.7	32.5	39.3*	35.0	43.2	30.0	32.9
8	37.7	38.4	32.5	34.2*	36.0	37.4	23.4	31.8
9	38.9	39.3	25.7	32.3	40.5	41.2	23.3	29.4
10	41.0	41.8	34.2	37.8	42.8	43.6	28.6	34.8
11	44.8	45.0	38.3	40.2	45.1	46.0	32.2	33.6
12	46.5	46.8	41.3	43.9	47.7	47.7*	34.7	37.2
13	38.4	40.5	34.5	34.5*	45.7	46.5	32.7	32.5*
14	35.8	37.7	31.2	32.8*	41.8	41.6	28.9	37.0
15	39.3	39.5	30.0	40.0	40.8	41.9	27.0	27.2
16	42.5	42.6	35.5	40.8	41.9	43.6	30.1	33.0
17	40.5	41.7	41.6	42.0*	49.3	49.1	42.8	42.9*
18	40.6	40.9	44.3	44.3	46.4	45.9	41.4	44.2
19	39.9	40.6	41.4	43.6	46.5	46.9	37.9	40.2
20	40.5	41.9	37.8	41.1	41.8	43.5	38.1	38.8
21	40.7	42.3	37.3	42.7	41.2	42.9	37.4	42.8
22	42.5	43.4	39.9	39.7	41.7	43.1	32.0	39.7
23	44.3	44.5	42.0	42.2*	42.6	43.6	35.7	37.5
24	44.7	44.7	40.8	41.4	43.7	45.4	33.6	34.2
25	45.8	45.8	46.3	46.2	45.7	47.3	33.3	39.2
26	47.4	47.8	45.0	44.9	48.1	48.0	34.3	39.3
27	40.9	40.8	37.4	37.2*	40.0	40.1	38.5	28.7*
28	40.6	40.6	38.5	38.1	42.9	42.8	37.8	38.1
29	42.8	43.0	43.7	43.7	43.6	43.7	39.6	40.3
30	44.0	44.1	40.5	40.4	42.9	43.1	38.0	37.5
31	36.6	37.5*	32.0	40.4*	37.9	38.8*	32.8	32.9*
32	38.5	38.5*	34.1	34.2*	40.0	40.1*	34.8	34.9*
33	40.8	41.1*	37.0	39.6*	41.5	41.6*	37.5	39.6*
34	41.3	41.9*	40.8	40.7	42.6	42.6*	40.9	41.4*
35	44.2	44.3*	42.6	42.4*	44.5	44.5*	42.5	42.6*
36	44.9	45.0*	45.7	44.9*	45.9	45.9*	41.6	41.7*
37	46.0	46.0*	47.2	47.3*	46.1	46.3*	38.8	39.5*
38	27.5	28.4*	24.0	24.8*	27.7	27.7*	23.3	23.9*
39	35.3	35.6*	29.2	35.1*	37.3	37.4*	29.8	32.7*
40	43.5	43.7*	44.2	47.8*	43.1	43.6*	43.9	43.9*

* OUTSIDE TIDE WINDOW

SURFACE AND BOTTOM CONDUCTIVITY (MHOS/CM) BY STATION AND WEEK OF
NOVEMBER 1983

STATION	NOVEMBER 2, 1983		NOVEMBER 9, 1983		NOVEMBER 16, 1983		NOVEMBER 21, 1983	
	SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM
1	18.9	22.7*	9.7	16.5*	13.0	24.5*	6.6	15.8*
2	28.8	29.9*	18.1	27.0*	25.4	26.2*	20.1	22.9*
3	32.8	32.8*	22.9	32.6*	30.2	30.0*	25.0	30.5*
4	29.7	30.7	23.0	33.1*	18.2	19.8	23.5	24.2*
5	27.1	29.8	27.4	32.4*	17.2	22.6	23.8	31.8
6	30.0	29.1	28.7	33.3*	21.0	21.5	24.3	24.4
7	31.9	33.3	27.6	37.7	25.3	25.3	26.9	34.6
8	30.9	32.1	28.0	36.7	28.4	28.3	26.6	30.4
9	32.2	34.6	30.1	37.3	31.8	31.8	25.0	27.7
10	35.1	35.4	32.7	38.5	34.4	34.4	30.2	34.5
11	39.8	41.1	33.7	38.8	37.3	37.3	34.3	34.3
12	43.2	42.8	35.8	40.8	39.8	39.7	35.5	35.5
13	41.9	42.6	35.7	35.8*	30.4	31.4	36.5	36.5*
14	35.4	37.7	29.4	41.0	24.0	26.5	29.1	29.3
15	33.0	35.3	28.8	37.1	27.2	27.2	29.4	29.3
16	34.9	36.2	36.1	37.6	33.4	33.4	32.7	32.7
17	45.5	44.0	40.6	40.7*	33.0	33.4	40.4	40.3*
18	41.5	42.0	38.8	41.5	36.3	34.6	30.9	30.1
19	41.8	41.9	40.2	42.8	32.4	33.1	36.8	36.8
20	36.6	39.4	35.2	40.9	30.5	30.8	31.8	31.8
21	35.2	37.3	34.3	41.2	28.6	29.6	32.6	32.8
22	37.7	38.1	39.6	40.8	29.9	30.1	33.5	33.5
23	38.1	39.0	41.1	40.6	34.7	34.8	36.4	36.4
24	38.7	39.0	37.4	39.5	35.3	35.2	35.1	35.1*
25	40.2	41.1	38.2	39.6	38.0	38.1	34.1	35.4
26	42.8	43.1	39.6	41.0	39.5	39.5	34.8	35.6
27	38.6	39.9	35.9	35.7*	32.6	32.6	33.5	33.3*
28	40.8	41.3	36.7	32.4	34.4	34.5	31.5	31.6
29	39.9	39.9	43.3	42.7	32.8	32.9	36.2	36.2
30	38.5	39.1	42.4	42.2	33.4	33.4	35.4	35.4
31	38.2	38.0*	31.8	31.3*	30.2	30.2*	23.1	23.0*
32	38.5	38.5*	32.9	35.4*	31.0	30.9	25.8	25.8*
33	39.7	39.8*	34.7	31.3*	33.4	33.8	27.3	32.2*
34	40.7	40.7*	37.0	37.5*	35.1	35.1*	29.8	31.3*
35	41.0	41.0*	40.1	39.9*	36.2	36.2*	32.9	33.4*
36	40.4	40.5*	40.5	40.7*	37.3	37.3*	34.8	34.5*
37	41.3	41.3*	41.2	41.2*	37.5	37.8*	35.0	36.2*
38	29.7	29.7*	26.0	32.0	25.3	25.5*	16.1	16.2*
39	37.3	37.2*	30.4	32.5	31.4	31.7*	22.0	23.7*
40	41.7	41.9*	38.6	40.1*	35.9	35.8*	26.7	29.5*

* OUTSIDE TIDE WINDOW

4.3 IMPINGEMENT AND ENTRAINMENT

IMFINGEMENT

SUMMARY

FROM JUNE 6, 1983 TO NOVEMBER 23, 1983

SPECIES NAME	NUMBER COLLECTED
OGCOCEPHALUS RADIATUS	1394
EUCINOSTOMUS ARGENTEUS	1055
CHLOROSCOMBRUS CHRYSURUS	536
BAIRDIELLA CHRYSOURA	520
OPHISTHONEMA OGGLINUM	484
SELENE VOMER	390
EUCINOSTOMUS GULA	349
HARENGULA JAGUANA	327
HAEMULON AUROLINEATUM	293
MENIDIA BERYLLINA	217
SYMPHURUS PLAGIUSA	206
ANCHOA MITCHILLI	193
ANCHOA HEPSETUS	154
CHILOMYCTERUS SCHOEPI	147
OLIGOPLITES SAURUS	140
ORTHOPRISTIS CHRYSOPTERA	136
ARIUS FELIS	130
MONACANTHUS HISPIDUS	118
HIPPOCAMPUS ERECTUS	95
LAGODON RHOMBOIDES	92
ALUTERUS SCHOEPI	89
CHAEODIPTERUS FABER	77
STRONGYLURA MARINA	76
SYNGNATHUS LOUISIANAE	75
CYNOSCION ARENARIUS	72
MONACANTHUS CILIATUS	69
CLUPEID	60
ANCHOA SP.	57
OPSANUS BETA	56
LACTOPHRYS QUADRICORNIS	56
SPHOERODES NEPHELUS	56
FAMILY CLUPEIDAE	46
TRINECTES MACULATUS	43
BREVOORTIA PATRONUS	40
GYMNURA MICRURA	38
MUGIL CEPHALUS	38
EUCINOSTOMUS SP.	37
STRONGYLURA NOTATA	36
ACHIRUS LINEATUS	34
UNIDENTIFIED-DAMAGED	30
MEMBRAS MARTINICA	29
HYPORHAMPUS UNIFASCIATUS	27
MENIDIA SP.	26
SYNGNATHUS FLORIDAE	24
CYNOSCION NEBULOSUS	24
PRIONOTUS SCITULUS	20
ETROPUS CROSSOTUS	17
SYNODUS FOETENS	12

LEIOSTOMUS XANTHURUS	12
DASYATIS SABINA	10
TRACHINOTUS FALCATUS	10
PRIONOTUS TRIBULUS	10
PORICHTHYS PLECTRODON	9
SYNGNATHUS SCOVELLI	9
RYPTICUS MACULATUS	7
RACHYCENTRON CANADUM	7
LUTJANUS GRISEUS	7
DIPLODUS HOLBROOKI	7
SARDINELLA AURITA	6
BAGRE MARINUS	6
MENTICIRRHUS AMERICANUS	6
SERRANUS ATROBRANCHUS	5
FAMILY BELONIDAE	4
UNIDENTIFIED CARANGID	4
ELOPS SAURUS	3
OPHICHTHUS GOMESI	3
SYNODUS SYNODUS	3
SYNGNATHUS SP.	3
DILECTRUM FORMOSUM	3
RYPTICUS SAPONACEUS	3
ECHENEIS NAUCRATES	3
CARANX HIPPOS	3
ANCYLOPSETTA QUADROCELLATA	3
ALOSA CHRYSOCHLORIS	2
UROPHYCIS FLORIDANA	2
HIPPOCAMPIUS ZOSTERAE	2
CENTROPRISTIS STRIATA	2
SCOMBEROMORUS MACULATUS	2
PEPRILUS ALEPIDOTUS	2
PARALICHTHYS ALBIGUTTA	2
SPHYRNA TIBURO	1
MYROPHIS PUNCTATUS	1
TRACHINOCEPHALUS MYOPS	1
OGCOCEPHALUS PARVUS	1
HIRUNDICHTHYS RONDELETI	1
HIPPOCAMPIUS SP.	1
HEMICARANX AMBLYRHYNCHUS	1
FAMILY GERRIDAE	1
ARCHOSARGUS PROBATOCEPHALUS	1
UNIDENTIFIED SPARID	1
OPISTOGNATHUS MAXILLOSUS	1
CHASMODES SUBURRAE	1
HYPSOBLENNIUS HENTZI	1
GOBIONELLUS HASTATUS	1
MICROGOBIUS THALASSINUS	1
UNIDENTIFIED BOTHID	1
FAMILY CYNOGLOSSIDAE	1
SPHOEROIDES SPENGLERI	1
SPHOEROIDES SP.	1
LAGOCEPHALUS LAEVIGATUS	1

IMPINGEMENT

SUMMARY

FROM JUNE 6, 1983 TO NOVEMBER 23, 1983

SPECIES NAME NUMBER COLLECTED

PENAEUS DUORARUM	9991
PORTUNUS GIBBESI	3065
CALLINECTES SAPIDUS	2167
LOLLIGUNCULA EREVIS	2105
TRACHYPENAEUS SIMILIS	850
XANTHIDAE	430
SQUILLA EMPUSIA	251
METOPORHAPHIS CALCARATA	201
BALAEON FLORIDANUS	91
ALPHEUS HETEROCHAEIS	86
MENIPPE MERCENARIA	78
PETROLISTHES ARMATUS	68
CALLINECTES ORNATUS	29
LOLLIGO PEALI	21
UPOGEBIA AFFINIS	20
PALAEONETES VULGARIS	18
APLYSIA WILCOXI	15
ANEMONE	14
SESARMA CINEREUM	14
LIBINIA DUBIA	13
PALAEONETES INTERMEDIUS	12
APLYSIA SP.	10
PETROLISTHES GALATHINUS	9
SESARMA RETICULATUM	5
DAMAGED CRAB	4
PELIA MUTICA	4
PALAEONIDAE	3
PENAEIDAE	2
PALAEONETES PUGIO	2
PALAEONETES SP.	2
PORTUNUS SPINIMANUS	2
PENAEUS SETIFERUS	1
PENAEUS SP.	1
TOZEUMA CAROLINENSE	1
PORTUNUS DEPRESSIFRONS	1
UCA PUGILATOR	1
LIBINIA EMARGINATA	1

IMPINGEMENT

SPECIES, NUMBER, AND WEIGHT OF ORGANISMS COLLECTED

UNIT 1

JUNE 1983

SPECIES NAME	AVERAGE NUMBER PER 6 HOUR COLLECTION	AVERAGE WEIGHT PER 6 HOUR COLLECTION	FREQUENCY SAMPLED
OGCOEPHALUS RADIATUS	1.58	132.95	0.50
CYNOSCION ARENARIUS	1.00	1.34	0.42
BREVOORTIA PATRONUS	0.58	0.89	0.17
ANCHOA MITCHILLI	0.50	3.01	0.42
MENIDIA BERYLLINA	0.50	0.33	0.25
BAIRDIELLA CHRYSOURA	0.50	0.45	0.33
CLUPEID	0.25	2.00	0.17
ANCHOA HEPSETUS	0.25	1.81	0.17
STRONGYLURA MARINA	0.25	0.09	0.17
ORTHOPRISTIS CHRYSOPTERA	0.25	0.42	0.25
ANCHOA SP.	0.17	0.12	0.08
LAGODON RHOMBOIDES	0.17	1.99	0.17
MUGIL CEPHALUS	0.17	0.41	0.17
SYMPHURUS PLAGIUSA	0.17	1.23	0.17
OPHICHTHUS GOMESI	0.08	1.85	0.08
SYNODUS FOETENS	0.08	0.37	0.08
OPSANUS BETA	0.08	0.46	0.08
PORICHTHYS PLECTRODON	0.08	3.97	0.08
UROPHYCIS FLORIDANA	0.08	4.54	0.08
SYNGNATHUS SCOVELLI	0.08	0.07	0.08
CARANX HIPPOS	0.08	11.21	0.08
SELENE VOMER	0.08	0.07	0.08
LEIOSTOMUS XANTHURUS	0.08	0.17	0.08
PRIONOTUS SCITULUS	0.08	0.10	0.08
PRIONOTUS TRIBULUS	0.08	0.03	0.08
ACHIRUS LINEATUS	0.08	0.12	0.08
MONACANTHUS HISPIDUS	0.08	0.10	0.08
CHILOMYCTERUS SCHOEPPFI	0.08	0.21	0.08
LOLLIGUNCULA BREVIS	13.83	50.06	0.83
CALLINECTES SAPIDUS	5.58	474.69	0.92
PENAEUS DUORARUM	4.83	39.40	0.75
PORTUNUS GIBBESI	2.83	2.35	0.67
XANTHIDAE	1.33	0.93	0.67
MENIPPE MERCENARIA	0.75	29.84	0.58
PETROLISTHES GALATHINUS	0.25	0.34	0.25
PALAEOMONETES INTERMEDIUS	0.17	0.09	0.17
LIBINIA DUBIA	0.17	0.72	0.17
UPOGEBIA AFFINIS	0.08	0.07	0.08
SESARMA RETICULATUM	0.08	0.11	0.08

IMPINGEMENT

SPECIES, NUMBER, AND WEIGHT OF ORGANISMS COLLECTED

UNIT 2

JUNE 1983

SPECIES NAME	AVERAGE NUMBER PER 6 HOUR COLLECTION	AVERAGE WEIGHT PER 6 HOUR COLLECTION	FREQUENCY SAMPLED
STRONGYLURA MARINA	4.13	1.61	0.50
BREVOORTIA PATRONUS	3.13	3.61	0.88
ANCHOA MITCHILLI	3.00	2.62	0.88
CYNOSCION ARENARIUS	2.75	23.62	0.63
OGCOEPHALUS RADIATUS	2.38	266.46	0.88
MENIDIA BERYLLINA	1.88	1.00	0.75
SPHOEROIDES NEPHELUS	1.63	3.87	0.88
LAGODON RHOMBOIDES	1.50	21.74	0.50
MUGIL CEPHALUS	1.38	2.87	0.38
ORTHOPRISTIS CHRYSOPTERA	1.13	2.77	0.38
SYNGNATHUS SCOVELLI	1.00	1.36	0.50
MONACANTHUS HISPIDUS	0.88	0.76	0.38
HIPPOCAMPUS ERECTUS	0.75	0.66	0.50
CHILOMYCTERUS SCHOEPPFI	0.75	1.36	0.50
BAIRDIELLA CHRYSOURA	0.63	0.61	0.13
PRIONOTUS SCITULUS	0.50	1.42	0.50
ANCHOA HEPSETUS	0.38	2.04	0.13
OPSANUS BETA	0.38	10.37	0.38
SELENE VOMER	0.38	0.25	0.38
ACHIRUS LINEATUS	0.38	5.90	0.25
ANCHOA SP.	0.25	0.00	0.13
UNIDENTIFIED CARANGID	0.25	0.01	0.25
LEIOSTOMUS XANTHURUS	0.25	3.36	0.25
METICIRRHUS AMERICANUS	0.25	1.04	0.13
UNIDENTIFIED-DAMAGED	0.25	1.88	0.25
GYMNURA MICRURA	0.13	6.06	0.13
OPHICHTHUS GOMESI	0.13	2.84	0.13
UROPHYCIS FLORIDANA	0.13	15.66	0.13
RACHYCENTRON CANADUM	0.13	0.30	0.13
UNIDENTIFIED SPARID	0.13	0.00	0.13
OPISTOGNATHUS MAXILLOSUS	0.13	3.82	0.13
SYMPHURUS PLAGIOSA	0.13	1.81	0.13
ALUTERUS SCHOEPPFI	0.13	0.36	0.13
MONACANTHUS CILIATUS	0.13	1.01	0.13
CALLINECTES SAPIDUS	56.25	6067.99	0.88
LOLLIGUNCULA BREVIS	29.88	89.71	0.88
PENAEUS DUORARUM	6.13	66.14	0.63
PORUNUS GIBBESI	4.38	2.41	0.75
XANTHIDAE	1.00	0.32	0.75
PALAEMONETES INTERMEDIUS	0.88	0.24	0.25
MENIPPE MERCENARIA	0.25	14.49	0.25
LIBINIA DUBIA	0.25	3.90	0.25
PENAEUS SP.	0.13	0.36	0.13

UPOGEBIA AFFINIS
PETROLISTHES GALATHINUS

0.13
0.13

0.14
0.10

0.13
0.13

IMPINGEMENT

SPECIES, NUMBER, AND WEIGHT OF ORGANISMS COLLECTED

UNIT 3

JUNE 1983

SPECIES NAME	AVERAGE NUMBER PER 6 HOUR COLLECTION	AVERAGE WEIGHT PER 6 HOUR COLLECTION	FREQUENCY SAMPLED
--------------	--	--	----------------------

UNIT NOT IN OPERATION AT TIMES OF SAMPLING THIS MONTH

IMPINGEMENT

SPECIES, NUMBER, AND WEIGHT OF ORGANISMS COLLECTED

UNIT 1

JULY 1983

SPECIES NAME	AVERAGE NUMBER PER 6 HOUR COLLECTION	AVERAGE WEIGHT PER 6 HOUR COLLECTION	FREQUENCY SAMPLED
OGCOEPHALUS RADIATUS	3.05	262.04	0.55
BAIRDIELLA CHRYSOURA	2.75	3.53	0.55
SELENE VOMER	2.70	3.51	0.75
SYMPHEIUS PLAGIUSA	2.65	18.57	0.20
ORTHOPRISTIS CHRYSOPTERA	0.80	4.47	0.30
GYMNURA MICRURA	0.40	48.18	0.15
OPSANUS BETA	0.40	3.55	0.20
LAGODON RHOMBOIDES	0.35	3.81	0.25
SPHOEROIDES NEPHELUS	0.30	1.38	0.05
ANCHOA HEPSETUS	0.25	2.26	0.10
ANCHOA MITCHILLI	0.25	0.39	0.10
MENIDIA BERYLLINA	0.25	0.67	0.15
ALUTERUS SCHOEPI	0.25	0.58	0.15
CLUPEID	0.20	0.44	0.20
OPHISTHONEMA OGLINUM	0.20	0.78	0.20
OLIGOPLITES SAURUS	0.15	0.16	0.15
PRIONOTUS TRIBULUS	0.15	0.33	0.05
ETROPUS CROSSOTUS	0.15	0.11	0.05
SYNODUS FOETENS	0.10	0.53	0.10
DIPLECTRUM FORMOSUM	0.10	0.81	0.10
EUCINOSTOMUS ARGENTEUS	0.10	0.14	0.10
PRIONOTUS SCITULUS	0.10	0.23	0.05
ACHIRUS LINEATUS	0.10	0.26	0.05
MONACANTHUS CILIATUS	0.10	0.07	0.05
CHILOMYCTERUS SCHOEPI	0.10	7.26	0.10
STRONGYLURA NOTATA	0.05	0.05	0.05
SYNGNATHUS LOUISIANAE	0.05	0.25	0.05
RACHYCENTRON CANADUM	0.05	0.11	0.05
CHLOROSCOMBRUS CHRYSURUS	0.05	0.01	0.05
EUCINOSTOMUS GULA	0.05	0.02	0.05
DIPLODUS HOLBROOKI	0.05	0.22	0.05
CYNOSCION ARENARIUS	0.05	0.09	0.05
MUGIL CEPHALUS	0.05	11.37	0.05
FAMILY CYNOGLOSSIDAE	0.05	0.65	0.05
MONACANTHUS HISPIDUS	0.05	0.04	0.05
LACTOPHRYS QUADRICORNIS	0.05	11.18	0.05
PORTUNUS GIBBESI	7.50	10.74	0.75
PENAEUS DUORARUM	5.85	16.72	0.65
LOLLIGUNCULA BREVIS	2.10	9.37	0.50
XANTHIDAE	1.35	0.79	0.75
CALLINECTES SAPIDUS	1.05	110.62	0.50
PALAEOMONETES VULGARIS	0.85	0.43	0.05
MENIPPE MERCENARIA	0.45	2.40	0.40

APLYSIA WILCOXI	0.40	25.80	0.40
SQUILLA EMPUSIA	0.20	1.10	0.10
TRACHYPENAEUS SIMILIS	0.20	0.09	0.15
PETROLISTHES GALATHINUS	0.15	0.14	0.10
SESARMA RETICULATUM	0.15	0.13	0.10
PETROLISTHES ARMATUS	0.10	0.13	0.10
BALAEON FLORIDANUS	0.05	0.01	0.05
DAMAGED CRAB	0.05	0.05	0.05
LIBINIA DUBIA	0.05	0.22	0.05

IMPINGEMENT

SPECIES, NUMBER, AND WEIGHT OF ORGANISMS COLLECTED

UNIT 2

JULY 1983

SPECIES NAME	AVERAGE NUMBER PER 6 HOUR COLLECTION	AVERAGE WEIGHT PER 6 HOUR COLLECTION	FREQUENCY SAMPLED
BAIRDIELLA CHRYSOURA	9.72	14.79	0.56
OGCOEPHALUS RADIATUS	8.39	630.68	0.89
SYMPHURUS PLAGIUSA	6.56	55.73	0.33
SELENE VOMER	4.72	5.20	0.89
OPHISTHONEMA OGLINUM	3.44	6.57	0.72
ORTHOPRISTIS CHRYSOPTERA	3.44	13.25	0.28
MENIDIA BERYLLINA	2.61	3.28	0.61
CLUPEID	2.28	2.17	0.56
GYMNURA MICRURA	1.50	176.33	0.22
ANCHOA HEPSETUS	1.17	3.06	0.56
EUCINOSTOMUS ARGENTEUS	1.06	3.07	0.22
ANCHOA MITCHILLI	1.00	0.94	0.11
CYNOSCION ARENARIUS	1.00	6.58	0.11
OLIGOPLITES SAURUS	0.89	0.80	0.33
ANCHOA SP.	0.83	0.71	0.33
LAGODON RHOMBoidES	0.83	19.96	0.44
OPSANUS BETA	0.72	3.72	0.17
ALUTERUS SCHOEPI	0.72	1.58	0.22
HARENGULA JAGUANA	0.56	2.25	0.11
STRONGYLURA NOTATA	0.56	0.85	0.22
MONACANTHUS HISPIDUS	0.50	1.24	0.22
LACTOPHRYS QUADRICORNIS	0.44	73.21	0.22
SPHEROIDES NEPHELUS	0.44	3.08	0.17
PRIONOTUS SCITULUS	0.33	0.46	0.11
SYNGNATHUS FOETENS	0.28	13.28	0.17
CHAETODIPTERYGIUS FABER	0.28	0.14	0.17
MUGIL CEPHALUS	0.28	12.08	0.17
HIPPOCAMPUS ERECTUS	0.22	0.18	0.11
ACHIRUS LINEATUS	0.22	8.06	0.17
RACHYCENTRUM CANADUM	0.17	0.74	0.11
MENTICIRRHUS AMERICANUS	0.17	0.00	0.06
PRIONOTUS TRIBULUS	0.17	2.21	0.06
BREVOORTIA PATRONUS	0.11	0.28	0.06
SYNGNATHUS LOUISIANAE	0.11	0.39	0.11
CHLOROSCOMBRUS CHRYSURUS	0.11	0.13	0.06
DIPLODUS HOLBROOKI	0.11	1.14	0.11
LEIOSTOMUS XANTHURUS	0.11	0.57	0.06
ANCYLOPSETTA QUADROCELLATA	0.11	3.46	0.06
PARALICHTHYS ALBIGUTTA	0.11	8.47	0.06
CHILOMYCTERUS SCHOEPI	0.11	2.03	0.11
PORICHTHYS PLECTRODON	0.06	1.89	0.06
FAMILY BELONIDAE	0.06	0.09	0.06
HEMICARANX AMBLYRHYNCHUS	0.06	0.03	0.06
UNIDENTIFIED CARANGID	0.06	0.01	0.06
ETROPUS CROSSOTUS	0.06	0.10	0.06

UNIDENTIFIED-DAMAGED	0.06	0.03	0.06
PORTUNUS GIBBESI	23.56	35.28	0.78
CALLINECTES SAPIDUS	16.67	2030.01	0.78
LOLLIGUNCULA BREVIS	13.89	40.33	0.83
PENAEUS DUORARUM	12.11	37.53	0.83
XANTHIDAE	2.00	0.59	0.50
TRACHYPENAEUS SIMILIS	1.83	1.18	0.22
MENIPPE MERCENARIA	0.50	3.19	0.44
BALAEON FLORIDANUS	0.44	0.10	0.11
SQUILLA EMPUSIA	0.33	0.91	0.11
ANEMONE	0.17	0.03	0.06
ALPHEUS HETEROCHAEIS	0.17	0.11	0.11
UPOGEBIA AFFINIS	0.17	0.78	0.17
METOPGRHAPHIS CALCARATA	0.17	0.10	0.17
APLYSIA WILCOXI	0.17	12.52	0.17
PALAEONETES SP.	0.11	0.04	0.11
PETROLISTHES GALATHINUS	0.11	0.08	0.11
LIBINIA DUBIA	0.11	2.27	0.06
PALAEONETES VULGARIS	0.06	0.02	0.06
DAMAGED CRAB	0.06	1.11	0.06
SESARMA RETICULATUM	0.06	0.01	0.06
UCA PUGILATOR	0.06	0.04	0.06

IMPINGEMENT
SPECIES, NUMBER, AND WEIGHT OF ORGANISMS COLLECTED

UNIT 3

JULY 1983

SPECIES NAME	AVERAGE NUMBER PER 6 HOUR COLLECTION	AVERAGE WEIGHT PER 6 HOUR COLLECTION	FREQUENCY SAMPLED
SELENE VOMER	3.00	4.35	0.63
OGCOEPHALUS RADIATUS	1.50	160.49	0.50
BAIRDIELLA CHRYSOURA	1.50	1.55	0.50
ALUTERUS SCHOEPI	1.00	1.76	0.38
MONACANTHUS HISPIDUS	1.00	0.67	0.25
STRONGYLURA NOTATA	0.75	0.77	0.25
CLUPEID	0.50	0.06	0.13
MENIDIA BERYLLINA	0.50	0.55	0.13
ORTHOPRISTIS CHRYSOPTERA	0.50	3.60	0.25
LAGODON RHOMBOIDES	0.50	1.01	0.25
CHILOMYCTERUS SCHOEPI	0.38	1.35	0.25
ARIUS FELIS	0.13	2.73	0.13
HIPPOCAMPUS ERECTUS	0.13	0.20	0.13
SYNGNATHUS LOUISIANAE	0.13	0.36	0.13
CARANX HIPPOS	0.13	25.44	0.13
OLIGOPLITES SAURUS	0.13	0.19	0.13
EUCINOSTOMUS ARGENTEUS	0.13	0.04	0.13
DIPLODUS HOLBROOKI	0.13	37.22	0.13
CHAETODIPTERUS FABER	0.13	0.11	0.13
PRIONOTUS SCITULUS	0.13	0.21	0.13
ACHIRUS LINEATUS	0.13	0.52	0.13
SYMPHURUS PLAGIUSA	0.13	0.82	0.13
LACTOPHRYS QUADRICORNIS	0.13	2.51	0.13
PORTUNUS GIBBES	25.63	31.15	1.00
PENAEUS DUORARUM	6.63	9.26	0.88
LOLLIGUNCULA BREVIS	2.38	7.81	0.63
CALLINectes SAPIDUS	1.88	141.81	0.88
UPOGEBIA AFFINIS	1.00	0.00	0.13
METOPORHAPHIS CALCARATA	0.63	0.36	0.38
APLYSIA WILCOXI	0.50	33.55	0.38
BALAEON FLORIDANUS	0.38	0.10	0.25
XANTHIDAE	0.25	0.40	0.25
PENAEIDAE	0.13	0.02	0.13
SESARMA CINEREUM	0.13	0.16	0.13
LIBINIA DUBIA	0.13	0.04	0.13

IMPINGEMENT

SPECIES, NUMBER, AND WEIGHT OF ORGANISMS COLLECTED

UNIT 1

AUGUST 1983

SPECIES NAME	AVERAGE NUMBER PER 6 HOUR COLLECTION	AVERAGE WEIGHT PER 6 HOUR COLLECTION	FREQUENCY SAMPLED
MENIDIA BERYLLINA	1.19	2.92	0.50
EUCINOSTOMUS ARGENTEUS	1.19	0.87	0.44
SELENE VOMER	0.75	1.24	0.50
OGCOCEPHALUS RADIATUS	0.69	63.36	0.44
CHLOROSCOMBRUS CHRYSURUS	0.63	0.73	0.25
ALUTERUS SCHOEPI	0.63	1.26	0.38
FAMILY CLUPEIDAE	0.56	0.46	0.50
ANCHOA HEPSETUS	0.38	0.35	0.13
EUCINOSTOMUS GULA	0.38	0.62	0.13
CHAETODIPTERUS FASER	0.38	0.49	0.25
CHILOMYCTERUS SCHOEPI	0.38	1.16	0.25
MONACANTHUS CILIATUS	0.31	0.29	0.25
BAIRDIELLA CHRYSOURA	0.25	0.79	0.25
OPSANUS BETA	0.19	2.34	0.19
OPHISTHONEMA OGILINUM	0.13	0.12	0.13
EUCINOSTOMUS SP.	0.13	0.06	0.13
HARENGULA JAGUANA	0.06	0.11	0.06
STRONGYLURA MARINA	0.06	0.11	0.06
OLIGOPLITES SAURUS	0.06	0.04	0.06
HAEMULON AUROLINEATUM	0.06	0.06	0.06
LAGODON RHOMBOIDES	0.06	0.95	0.06
ACHIRUS LINEATUS	0.06	0.02	0.06
LACTOPHRYS QUADRICORNIS	0.06	0.05	0.06
UNIDENTIFIED-DAMAGED	0.06	0.06	0.06
PORTUNUS GIBBESI	11.13	16.04	1.00
PENAEUS DUORARUM	9.81	13.73	0.94
XANTHIDAE	2.06	1.06	0.81
METOPORHAPHIS CALCARATA	1.13	0.44	0.25
LOLLIGUNCULA BREVIS	0.94	1.48	0.38
CALLINECTES SAPIDUS	0.81	72.27	0.56
APLYSIA SP.	0.31	17.33	0.25
BALAEON FLORIDANUS	0.13	0.03	0.13
CALLINECTES ORNATUS	0.13	3.09	0.13
MENIPPE MERCENARIA	0.13	2.97	0.13
SESARMA CINEREUM	0.13	0.01	0.13
LOLLIGO PEALI	0.13	0.66	0.06
TRACHYPENAEUS SIMILIS	0.06	0.03	0.06

IMPINGEMENT

SPECIES, NUMBER, AND WEIGHT OF ORGANISMS COLLECTED

UNIT 2

AUGUST 1983

SPECIES NAME	AVERAGE NUMBER PER 6 HOUR COLLECTION	AVERAGE WEIGHT PER 6 HOUR COLLECTION	FREQUENCY SAMPLED
EUCINOSTOMUS ARGENTUS	18.94	15.66	0.94
MENIDIA BERYLLINA	6.88	9.95	1.00
OGCOCEPHALUS RADIATUS	6.63	630.96	1.00
SELENE VOMER	5.06	7.02	0.75
EUCINOSTOMUS GULA	4.94	9.60	0.56
OLIGOPLITES SAURUS	4.69	6.97	0.94
CHLOROSCOMBRUS CHRYSURUS	4.19	3.98	0.75
OPHISTHONEMA OGLINUM	4.06	6.14	0.69
MONACANTHUS CILIATUS	2.13	1.73	0.31
STRONGYLURA MARINA	1.88	2.26	0.31
BAIRDIELLA CHRYSOURA	1.44	1.31	0.50
HAEMULON AUROLINEATUM	1.38	1.73	0.25
ALUTERUS SCHOEPI	1.25	23.57	0.44
CHILOMYCTERUS SCHOEPI	0.94	7.57	0.50
HIPPOCAMPUS ERECTUS	0.88	2.59	0.31
FAMILY CLUPEIDAE	0.75	0.67	0.63
CHAETODIPTERUS FABER	0.69	1.36	0.38
HARENGULA JAGUANA	0.63	1.05	0.38
LAGODON RHOMBOIDES	0.63	7.01	0.38
ANCHOA HEPSETUS	0.56	0.78	0.28
MEMBRAS MARTINICA	0.56	1.35	0.13
SYNGNATHUS FLORIDAE	0.50	0.60	0.25
CYNOSCION ARENARIUS	0.38	0.34	0.19
UNIDENTIFIED-DAMAGED	0.38	0.36	0.25
DASYATIS SABINA	0.31	24.05	0.25
EUCINOSTOMUS SP.	0.31	0.14	0.06
ORTHOPRISTIS CHRYSOPTERA	0.31	5.13	0.19
LACTOPHRYS QUADRICORNIS	0.25	30.67	0.13
FAMILY BELONIDAE	0.19	0.67	0.13
STRONGYLURA NOTATA	0.19	1.18	0.19
SYNGNATHUS LOUISIANAE	0.19	0.37	0.19
DIPLODUS HOLBROOKI	0.19	1.41	0.13
MUGIL CEPHALUS	0.19	36.49	0.19
ACHIRUS LINEATUS	0.19	4.18	0.19
MONACANTHUS HISPIDUS	0.19	0.32	0.13
BREVOORTIA PATRONUS	0.13	0.56	0.13
ALOSA CHRYSOCHLORIS	0.13	0.05	0.06
HYPORHAMPUS UNIFASCIATUS	0.13	1.17	0.06
SYMPHURUS PLAGIUSA	0.13	0.57	0.13
SPHOEROIDES NEPHELUS	0.13	1.66	0.13
SARDINELLA AURITA	0.06	0.13	0.06
ANCHOA SP.	0.06	0.02	0.06
OPSANUS BETA	0.06	0.11	0.06
TRACHINOTUS FALCATUS	0.06	0.01	0.06
CYNOSCION NEBULOSUS	0.06	0.03	0.06

SCOMBEROMORUS MACULATUS	0.06	0.36	0.06
PRIONOTUS SCITULUS	0.06	0.07	0.06
PRIONOTUS TRIBULUS	0.06	0.04	0.06
PENAEUS DUORARUM	63.94	64.05	0.88
PORTUNUS GIBBESI	17.81	33.30	1.00
LOLLIGUNCULA BREVIS	12.13	23.42	0.88
CALLINECTES SAPIDUS	9.31	1358.19	1.00
XANTHIDAE	4.13	1.85	0.88
METOPORHAPHIS CALCARATA	2.25	1.09	0.38
PETROLISTHES ARMATUS	0.63	0.42	0.50
BALAEON FLORIDANUS	0.56	0.13	0.19
MENIPPE MERCENARIA	0.56	9.27	0.44
ANEMONE	0.44	0.17	0.13
TRACHYPENAEUS SIMILIS	0.25	0.14	0.06
CALLINECTES ORNATUS	0.25	3.91	0.19
SQUILLA EMPUSIA	0.13	0.97	0.06
PALAEOMNETES INTERMEDIUS	0.13	0.01	0.13
APLYSIA SP.	0.13	7.19	0.13
PALAEOMNETES PUGIO	0.06	0.01	0.06
PORTUNUS DEPRESSIFRONS	0.06	0.02	0.06
LIBINIA DUBIA	0.06	0.12	0.06

IMPINGEMENT

SPECIES, NUMBER, AND WEIGHT OF ORGANISMS COLLECTED

UNIT 3

AUGUST 1983

SPECIES NAME	AVERAGE NUMBER PER 6 HOUR COLLECTION	AVERAGE WEIGHT PER 6 HOUR COLLECTION	FREQUENCY SAMPLED
EUCINOSTOMUS ARGENTEUS	7.00	4.26	0.79
BAIROIELLA CHRYSOURA	6.43	9.71	0.86
OGCOCEPHALUS RADIATUS	5.79	414.36	0.79
SELENE VOMER	4.29	5.23	1.00
CHLOROSCOMBRUS CHRYSURUS	2.21	1.99	0.64
EUCINOSTOMUS SP.	1.36	0.51	0.07
ALUTERUS SCHOEPI	1.29	2.09	0.36
MONACANTHUS CILIATUS	1.07	0.99	0.36
CHILOMYCTERUS SCHOEPI	1.07	6.60	0.50
LAGODON RHOMBOIDES	0.71	9.45	0.43
MEMBRAS MARTINICA	0.57	1.41	0.14
EUCINOSTOMUS GULA	0.57	1.66	0.36
HAEMULON AUROLINEATUM	0.57	0.41	0.36
CHAEODIPTERUS FABER	0.57	0.82	0.50
MONACANTHUS HISPIDUS	0.57	0.73	0.21
SYNGNATHUS FLORIDAE	0.50	0.55	0.29
UNIDENTIFIED-DAMAGED	0.50	0.36	0.29
STRONGYLURA MARINA	0.43	2.08	0.21
LACTOPHRYS QUADRICORNIS	0.43	78.36	0.21
ANCHOA HEPSETUS	0.36	0.17	0.21
OLIGOPLITES SAURUS	0.36	0.34	0.14
ORTHOPRISTIS CHRYSOPTERA	0.36	5.33	0.29
MENIDIA BERYLLINA	0.29	0.23	0.21
SYNGNATHUS LOUISIANAE	0.29	0.47	0.29
FAMILY CLUPEIDAE	0.21	0.06	0.14
OPSANUS BETA	0.21	16.05	0.14
HIPPOCAMPUS ERECTUS	0.21	1.20	0.14
TRACHINOTUS FALCATUS	0.21	0.13	0.21
CYNOSCION ARENARIUS	0.21	0.16	0.07
ACHIRUS LINEATUS	0.21	0.11	0.21
OPHISTHONEMA OGLINUM	0.14	0.16	0.14
ANCHOA MITCHILLI	0.14	0.08	0.14
STRONGYLURA NOTATA	0.14	0.03	0.14
CYNOSCION NEBULOSUS	0.14	0.51	0.14
PRIONOTUS SCITULUS	0.14	0.24	0.14
ETROPUS CROSSOTUS	0.14	0.53	0.07
SYMPHURUS PLAGIUSA	0.14	1.48	0.07
DASYATIS SABINA	0.07	2.91	0.07
HARENGULA JAGUANA	0.07	0.11	0.07
ANCHOA SP.	0.07	0.12	0.07
HIRUNDICHTHYS RONDELETI	0.07	2.29	0.07
HYPORHAMPUS UNIFASCIATUS	0.07	0.60	0.07
RYPTICUS MACULATUS	0.07	0.04	0.07
FAMILY GERRIDAE	0.07	0.07	0.07
MENTICIRRHUS AMERICANUS	0.07	0.21	0.07

UNIDENTIFIED BOTHID	0.07	0.07	0.07
SPHOEROIDES NEPHELUS	0.07	0.46	0.07
PENAEUS DUORARUM	191.14	268.46	1.00
PORTUNUS GIBBESI	47.14	81.79	0.93
CALLINECTES SAPIDUS	15.36	1788.96	0.93
LOLLIGUNCULA BREVIS	10.79	20.48	0.79
TRACHYPENAEUS SIMILIS	5.64	1.41	0.50
BALAEON FLORIDANUS	2.93	0.97	0.57
SQUILLA EMPUSIA	1.14	4.62	0.21
CALLINECTES ORNATUS	0.71	11.56	0.21
XANTHIDAE	0.71	0.29	0.43
METOPORHAPHIS CALCARATA	0.43	0.19	0.21
APLYSIA SP.	0.21	8.44	0.21
SESARMA CINEREUM	0.14	0.14	0.14
PALAEONETES INTERMEDIUS	0.07	0.01	0.07
PALAEONETES PUGIO	0.07	0.02	0.07
ALPHEUS HETEROCHAEALIS	0.07	0.04	0.07
TOZEUMA CAROLINENSE	0.07	0.01	0.07
UPOGEBIA AFFINIS	0.07	0.08	0.07
MENIPPE MERCENARIA	0.07	0.42	0.07
LOLLIGO PEALI	0.07	0.14	0.07

IMPINGEMENT

SPECIES, NUMBER, AND WEIGHT OF ORGANISMS COLLECTED

UNIT 1

SEPTEMBER 1983

SPECIES NAME	AVERAGE NUMBER PER 6 HOUR COLLECTION	AVERAGE WEIGHT PER 6 HOUR COLLECTION	FREQUENCY SAMPLED
EUCINOSTOMUS ARGENTEUS	2.65	3.05	0.35
OGCOEPHALUS RADIATUS	2.35	221.10	0.40
OPHISTHONEMA OGLINUM	2.25	9.87	0.30
HARENGULA JAGUANA	2.15	7.54	0.05
HAEMULON AUROLINEATUM	1.30	1.92	0.40
EUCINOSTOMUS GULA	0.75	1.60	0.20
HIPPOCAMPUS ERECTUS	0.55	1.08	0.45
ANCHOA HEPSETUS	0.50	1.00	0.15
SELENE VOMER	0.45	0.36	0.35
FAMILY CLUPEIDAE	0.35	0.10	0.10
CHLOROSCOMBRUS CHRYSURUS	0.35	0.92	0.25
CHILOMYCTERUS SCHOEPI	0.25	0.21	0.20
ANCHOA SP.	0.20	0.13	0.10
MENIDIA BERYLLINA	0.20	0.55	0.20
SYNGNATHUS LOUISIANAE	0.20	0.10	0.10
BAIRDIELLA CHRYSOURA	0.20	0.60	0.10
ANCHOA MITCHILLI	0.15	0.10	0.10
OPSANUS BETA	0.15	6.48	0.15
SYNODUS SYNODUS	0.10	0.27	0.05
OLIGOPLITES SAURUS	0.10	0.09	0.10
CYNOSCION NEBULOSUS	0.10	0.25	0.10
ETROPUS CROSSOTUS	0.10	0.07	0.05
ACHIRUS LINEATUS	0.10	0.03	0.10
SYMPHURUS PLAGIUSA	0.10	0.81	0.10
ALUTERUS SCHOEPI	0.10	0.38	0.10
MONACANTHUS CILIATUS	0.10	0.26	0.10
LACTOPHRYS QUADRICORNIS	0.10	13.59	0.10
SPHYRNA TIBURO	0.05	4.87	0.05
MYROPHIS PUNCTATUS	0.05	0.00	0.05
CLUPEID	0.05	0.28	0.05
OGCOEPHALUS PARVUS	0.05	0.19	0.05
HIPPOCAMPUS ZOSTERAE	0.05	0.00	0.05
ORTHOPRISTIS CHRYSOPTERA	0.05	0.31	0.05
CHAE TODIPTERRUS FABER	0.05	11.88	0.05
MUGIL CEPHALUS	0.05	3.69	0.05
SPHOEROIDES NEPHELUS	0.05	0.42	0.05
PENAEUS DUORARUM	13.00	20.49	0.75
PORTUNUS GIBBESI	5.40	9.43	0.85
XANTHIDAE	2.40	1.42	0.95
CALLINECTES SAPIDUS	2.15	100.48	0.85
LOLLIGUNCULA BREVIS	1.50	2.11	0.45
SQUILLA EMPUSIA	1.30	3.24	0.25
METOPORHAPHIS CALCARATA	1.15	0.38	0.70

TRACHYPENAEUS SIMILIS
MENIPPE MERCENARIA
ALPHEUS HETEROCHAEUS
BALAEMON FLORIDANUS
SESARMA CINEREUM
PELIA MUTICA

0.80
0.20
0.10
0.05
0.05
0.05

0.47
7.07
0.17
0.01
0.05
0.01

0.20
0.15
0.05
0.05
0.05
0.05

IMPINGEMENT

SPECIES, NUMBER, AND WEIGHT OF ORGANISMS COLLECTED

UNIT 2

SEPTEMBER 1983

SPECIES NAME	AVERAGE NUMBER PER 6 HOUR COLLECTION	AVERAGE WEIGHT PER 6 HOUR COLLECTION	FREQUENCY SAMPLED
OPHISTHOPOMA OGILINUM	14.75	30.49	0.50
HARENGULA JAGUANA	13.33	28.37	0.25
EUCINOSTOMUS ARGENTUS	7.42	11.27	0.75
CHLOROSCOMBRUS CHRYSURUS	6.00	3.47	0.42
HAEMULON AUROLINEATUM	3.33	3.86	0.33
OGCOEPHALUS RADIATUS	2.58	226.84	0.67
ANCHOA HEPSETUS	2.33	3.10	0.25
BAIRDIELLA CHRYSOURA	1.58	2.92	0.33
SELENE VOMER	1.50	1.57	0.75
FAMILY CLUPEIDAE	1.17	1.31	0.33
CHILOMYCTERUS SCHOEPI	1.08	21.49	0.58
EUCINOSTOMUS GULA	1.00	2.11	0.33
HIPPOCAMPUS ERECTUS	0.83	0.55	0.42
ANCHOA SP.	0.42	0.07	0.08
CHAETODIPTERUS FABER	0.42	0.54	0.33
UNIDENTIFIED-DAMAGED	0.42	0.20	0.25
STRONGYLURA NOTATA	0.33	0.19	0.33
SYNGNATHUS LOUISIANAE	0.25	0.92	0.17
EUCINOSTOMUS SP.	0.25	0.13	0.08
ORTHOPRISTIS CHRYSOPTERA	0.25	1.95	0.08
LAGODON RHOMBOIDES	0.25	3.28	0.17
HYPORHAMPHUS UNIFASCIATUS	0.17	1.57	0.17
STRONGYLURA MARINA	0.17	0.11	0.08
MENIDIA BERYLLINA	0.17	0.40	0.17
OLIGOPLITES SAURUS	0.17	0.32	0.17
CYNOSCION NEBULOSUS	0.17	0.51	0.17
ACHIRUS LINEATUS	0.17	2.82	0.08
ALUTERUS SCHOEPI	0.17	0.51	0.08
MONACANTHUS CILIATUS	0.17	0.19	0.17
LACTOPHRYS QUADRICORNIS	0.17	9.02	0.17
ELOPS SAURUS	0.08	11.74	0.08
SARDINELLA AURITA	0.08	0.15	0.08
OPSANUS BETA	0.08	3.27	0.08
HIPPOCAMPUS ZOSTERAE	0.08	0.02	0.08
SYNGNATHUS FLGRIDAE	0.08	0.02	0.08
RACHYCENTRON CANADUM	0.08	0.50	0.08
CYNOSCION ARENARIUS	0.08	0.56	0.08
SCOMBEROMORUS MACULATUS	0.08	0.13	0.08
SPHOEROIDES NEPHELUS	0.08	0.42	0.08
PENAEUS DUORARUM	34.25	60.08	0.75
LOLLIGUNCULA BREVIS	10.92	15.16	0.67
CALLINectes SAPIDUS	6.83	524.99	0.92
XANTHIDAE	4.67	1.79	0.83

PORTUMUS GIBBESI	2.50	3.52	0.75
PETROLISTHES ARMATUS	1.92	0.46	0.67
METOPORHAPHIS CALCARATA	1.42	0.52	0.50
SQUILLA EMPUSIA	1.33	5.04	0.08
TRACHYPENAEUS SIMILIS	0.67	0.28	0.17
ALPHEUS HETEROCHAEIS	0.42	0.40	0.08
CALLINECTES ORNATUS	0.42	5.31	0.42
MENIPPE MERCENARIA	0.42	9.91	0.33
LIBINIA DUBIA	0.25	0.72	0.25
BALAEON FLORIDANUS	0.17	0.06	0.17
UPOGEBIA AFFINIS	0.17	0.17	0.08
DAMAGED CRAB	0.17	0.05	0.08
SESARMA CINEREUM	0.17	0.24	0.17
PALAEONIDAE	0.08	0.02	0.08
LOLLIGO PEALI	0.08	0.32	0.08

IMPINGEMENT

SPECIES, NUMBER, AND WEIGHT OF ORGANISMS COLLECTED

UNIT 3

SEPTEMBER 1983

SPECIES NAME	AVERAGE NUMBER PER 6 HOUR COLLECTION	AVERAGE WEIGHT PER 6 HOUR COLLECTION	FREQUENCY SAMPLED
OPHISTHONEMA DGLINUM	6.10	14.02	0.35
HAEMULON AUROLINEATUM	5.60	5.72	0.60
EUCINOSTOMUS ARGENTEUS	5.40	4.86	0.45
OGCOCEPHALUS RADIATUS	5.10	520.54	0.90
HARENGULA JAGUANA	5.00	11.72	0.10
BAIRDIELLA CHRYSOURA	4.20	7.62	0.30
CHLOROSCOMBRUS CHRYSURUS	3.90	8.63	0.35
EUCINOSTOMUS GULA	1.95	4.61	0.20
CHILOMYCTERUS SCHOEPI	1.40	64.22	0.60
ANCHOA MITCHILLI	1.35	2.47	0.05
HIPPOCAMPUS ERECTUS	1.35	2.05	0.60
SELENE VOMER	1.15	1.59	0.40
SYNGNATHUS LOUISIANAE	0.55	0.51	0.40
ORTHOPRISTIS CHRYSOPTERA	0.50	9.46	0.25
ANCHOA HEPSETUS	0.45	0.73	0.25
OPSANUS BETA	0.45	10.94	0.30
CYNOSCION NEBULOSUS	0.45	1.56	0.25
LAGODON RHOMBOIDES	0.40	5.65	0.20
ANCHOA SP.	0.35	0.12	0.15
LACTOPHRYS QUADRICORNIS	0.35	69.23	0.25
UNIDENTIFIED-DAMAGED	0.30	0.32	0.25
CLUPEID	0.25	0.11	0.10
SYNGNATHUS FLORIDAE	0.25	0.27	0.15
TRINECTES MACULATUS	0.25	5.47	0.25
ALUTERUS SCHOEPI	0.20	0.66	0.15
MONACANTHUS CILIATUS	0.20	0.24	0.20
PORICHTHYS PLECTRODON	0.15	0.10	0.15
OLIGOPLITES SAURUS	0.15	3.40	0.15
EUCINOSTOMUS SP.	0.15	0.11	0.10
CHAETODIPTERUS FABER	0.15	0.16	0.15
SYMPHURUS PLAGIUSA	0.15	0.97	0.05
SPHOEROIDES NEPHELUS	0.15	1.21	0.15
ELOPS SAURUS	0.10	26.10	0.10
HYPORHAMPUS UNIFASCIATUS	0.10	0.87	0.10
STRONGYLURA NOTATA	0.10	0.04	0.05
CENTROPRISTIS STRIATA	0.10	9.13	0.05
TRACHINOTUS FALCATUS	0.10	0.05	0.10
ACHIRUS LINEATUS	0.10	0.04	0.10
MONACANTHUS HISPIDUS	0.10	0.12	0.10
FAMILY CLUPEIDAE	0.05	0.01	0.05
SYNODUS FOETENS	0.05	0.72	0.05
SYNODUS SYNODUS	0.05	0.12	0.05
TRACHINOCEPHALUS MYOPS	0.05	0.04	0.05
ARIUS FELIS	0.05	3.76	0.05
SYNGNATHUS SP.	0.05	0.00	0.05

DIPLECTRUM FORMOSUM	0.05	0.14	0.05
ECHENEIS NAUCRATES	0.05	0.09	0.05
CARANX HIPPOS	0.05	9.71	0.05
UNIDENTIFIED CARANGID	0.05	0.21	0.05
CYNOSCION ARENARIUS	0.05	0.16	0.05
LEIOSTOMUS XANTHURUS	0.05	0.24	0.05

PENAEUS DUORARUM	153.50	175.30	0.90
TRACHYPENAEUS SIMILIS	16.50	5.85	0.65
CALLINECTES SAPIDUS	13.30	1112.37	1.00
PORTUNUS GIBBESI	11.85	26.41	0.90
LOLLIGUNCULA BREVIS	7.25	11.22	0.80
METOPORHAPHIS CALCARATA	2.10	0.63	0.60
ALPHEUS HETEROCHAEIS	1.60	1.28	0.25
SQUILLA EMPUSIA	1.35	3.36	0.15
XANTHIDAE	1.00	0.39	0.50
PETROLISTHES ARMATUS	0.60	0.05	0.20
BALAEON FLORIDANUS	0.40	0.10	0.15
LOLLIGO PEALI	0.35	0.24	0.05
MENIPPE MERCENARIA	0.30	2.12	0.20
SESARMA CINEREUM	0.25	0.32	0.25
UPOGEBIA AFFINIS	0.15	0.15	0.15
PELIA MUTICA	0.15	0.02	0.15
CALLINECTES ORNATUS	0.10	0.77	0.10
PENAEIDAE	0.05	0.08	0.05

IMPINGEMENT

SPECIES, NUMBER, AND WEIGHT OF ORGANISMS COLLECTED

UNIT 1

OCTOBER 1983

SPECIES NAME	AVERAGE NUMBER PER 6 HOUR COLLECTION	AVERAGE WEIGHT PER 6 HOUR COLLECTION	FREQUENCY SAMPLED
OGCOEPHALUS RADIATUS	4.25	357.22	0.88
ANCHOA HEPSETUS	0.63	2.12	0.50
HAEMULON AUROLINEATUM	0.38	0.86	0.38
CHILOMYCTERUS SCHOEPI	0.38	84.74	0.38
SYNGNATHUS LOUISIANAE	0.25	0.64	0.13
CHLOROSCOMBRUS CHRYSURUS	0.25	0.21	0.13
HARENGULA JAGUANA	0.13	0.36	0.13
HYPORHAMPUS UNIFASCIATUS	0.13	2.96	0.13
EUCINOSTOMUS GULA	0.13	0.27	0.13
ETROPUS CROSSOTUS	0.13	0.19	0.13
ACHIRUS LINEATUS	0.13	0.06	0.13
SYMPHURUS PLAGIUSA	0.13	0.75	0.13
LACTOPHRYS QUADRICORNIS	0.13	16.61	0.13
PORTUNUS GIBBESI	6.88	16.37	0.88
PENAEUS DUORARUM	6.00	9.32	0.75
LOLLIGUNCULA BREVIS	4.00	5.91	0.38
CALLINECTES SAPIDUS	1.88	133.26	0.75
XANTHIDAE	1.63	0.89	0.63
TRACHYPENAEUS SIMILIS	1.38	0.71	0.25
SQUILLA EMPUSIA	0.88	3.75	0.63
ANEMONE	0.38	0.11	0.25
MENIPPE MERCENARIA	0.38	44.79	0.25
ALPHEUS HETEROCHAELIS	0.13	0.17	0.13
LIBINIA DUBIA	0.13	1.42	0.13
LIBINIA EMARGINATA	0.13	3.45	0.13

IMPINGEMENT

SPECIES, NUMBER, AND WEIGHT OF ORGANISMS COLLECTED

UNIT 2

OCTOBER 1983

SPECIES NAME	AVERAGE NUMBER PER 6 HOUR COLLECTION	AVERAGE WEIGHT PER 6 HOUR COLLECTION	FREQUENCY SAMPLED
OGCOEPHALUS RADIATUS	12.19	1037.51	0.94
EUCINOSTOMUS ARGENTEUS	9.31	14.82	0.63
CHLOROSCOMBRUS CHRYSURUS	5.00	5.63	0.56
EUCINOSTOMUS GULA	3.81	11.24	0.38
ANCHOA HEPSETUS	1.56	5.65	0.25
HAEMULON AUROLINEATUM	1.31	1.71	0.31
ANCHOA MITCHILLI	0.81	0.70	0.44
MUGIL CEPHALUS	0.63	54.17	0.38
SELENE VOMER	0.50	1.42	0.25
ORTHOPRISTIS CHRYSOPTERA	0.50	1.40	0.19
OLIGOPLITES SAURUS	0.44	0.55	0.38
LAGODON RHOMBOIDES	0.44	17.11	0.31
SYMPHURUS PLAGIUSA	0.44	2.61	0.25
CHILOMYCTERUS SCHOEPI	0.44	42.59	0.31
LACTOPHRYS QUADRICORNIS	0.38	47.56	0.31
TRINECTES MACULATUS	0.31	4.89	0.25
OPHISTHONEMA OGILINUM	0.25	0.46	0.19
OPSANUS BETA	0.25	2.58	0.25
LUTJANUS GRISEUS	0.25	1.56	0.19
CYNOSCION ARENARIUS	0.25	0.45	0.13
ANCHOA SP.	0.19	0.36	0.13
ETROPUS CROSSOTUS	0.19	1.12	0.19
SPHOEROIDES NEPHELUS	0.19	14.16	0.06
DASYATIS SABINA	0.13	10.68	0.13
HIPPOCAMPUS ERECTUS	0.13	0.13	0.13
ECHENEIS NAUCRATES	0.13	0.67	0.13
CYNOSCION NEBULOSUS	0.13	0.57	0.06
PEPRILUS ALEPIDOTUS	0.13	0.35	0.13
ACHIRUS LINEATUS	0.13	0.50	0.13
MONACANTHUS HISPIDUS	0.13	0.12	0.13
GYMNURA MICRURA	0.06	10.04	0.06
CLUPEID	0.06	0.07	0.06
SYNODUS FOETENS	0.06	1.48	0.06
STRONGYLURA NOTATA	0.06	5.45	0.06
SYNGNATHUS LOUISIANAE	0.06	0.04	0.06
SERRANUS ATROBRANCHUS	0.06	0.18	0.06
RYPTICUS MACULATUS	0.06	0.03	0.06
TRACHINOTUS FALCATUS	0.06	0.70	0.06
EUCINOSTOMUS SP.	0.06	0.04	0.06
ARCHOSARGUS PROBATOCEPHALUS	0.06	54.47	0.06
BAIRDIELLA CHRYSOURA	0.06	0.75	0.06
CHAETODIPTERRUS FABER	0.06	16.39	0.06
HYPSOBLENNIUS HENTZI	0.06	0.39	0.06
GOBIONELLUS HASTATUS	0.06	2.46	0.06
PRIONOTUS SCITULUS	0.06	0.22	0.06

ALUTERUS SCHOEPI	0.06	23.01	0.06
UNIDENTIFIED-DAMAGED	0.06	0.02	0.06
PENAEUS DUORARUM	16.00	32.72	0.56
LOLLIGUNCULA BREVIS	13.06	35.08	0.88
CALLINECTES SAPIDUS	8.69	632.24	0.94
PORTUNUS GIBBESI	6.75	14.44	0.75
TRACHYPENAEUS SIMILIS	5.75	2.56	0.25
XANTHIDAE	2.31	1.43	0.69
SQUILLA EMPUSIA	1.56	5.86	0.38
PETROLISTHES ARMATUS	0.94	0.19	0.31
ALPHEUS HETEROCHAEIS	0.63	0.41	0.19
MENIPPE MERCENARIA	0.50	8.98	0.38
METOPORHAPHIS CALCARATA	0.31	0.09	0.19
LOLLIGO PEALI	0.25	3.48	0.19
PALAEEMONIDAE	0.06	0.01	0.06

IMPINGEMENT

SPECIES, NUMBER, AND WEIGHT OF ORGANISMS COLLECTED

UNIT 3

OCTOBER 1983

SPECIES NAME	AVERAGE NUMBER PER 6 HOUR COLLECTION	AVERAGE WEIGHT PER 6 HOUR COLLECTION	FREQUENCY SAMPLED
OGCOCEPHALUS RADIATUS	9.38	799.09	0.69
CHLOROSCOMBRUS CHRYSURUS	8.88	15.54	0.50
EUCINOSTOMUS ARGENTEUS	5.56	6.21	0.31
EUCINOSTOMUS GULA	3.06	9.34	0.25
HAEMULON AUROLINEATUM	1.81	3.67	0.31
TRINECTES MACULATUS	1.75	39.30	0.19
ANCHOA HEPSETUS	1.25	4.27	0.13
CHILOMYCTERUS SCHOEPI	1.25	114.21	0.69
BAIRDIELLA CHRYSOURA	1.06	5.68	0.19
SYMPHURUS PLAGIUSA	0.81	4.91	0.19
ANCHOA MITCHILLI	0.50	0.35	0.19
ANCHOA SP.	0.44	0.48	0.19
HIPPOCAMPUS ERECTUS	0.44	0.37	0.38
SELENE VOMER	0.38	1.47	0.19
MONACANTHUS HISPIDUS	0.38	0.49	0.25
RYPTICUS MACULATUS	0.31	0.22	0.19
OLIGOPLITES SAURUS	0.31	0.36	0.25
ORTHOPRISTIS CHRYSOPTERA	0.31	13.12	0.25
SYNGNATHUS LOUISIANAE	0.25	0.76	0.25
SERRANUS ATROBRANCHUS	0.25	2.21	0.13
CYNOSCION ARENARIUS	0.25	28.49	0.19
LEIOSTOMUS XANTHURUS	0.25	9.26	0.13
SPHOERODES NEPHELUS	0.25	2.34	0.13
OPSANUS BETA	0.19	0.57	0.19
CYNOSCION NEBULOSUS	0.19	1.04	0.06
CHAETODIPTERUS FABER	0.19	0.58	0.13
ACHIRUS LINEATUS	0.19	0.56	0.13
ALUTERUS SCHOEPI	0.19	0.32	0.19
LACTOPHRYS QUADRICORNIS	0.19	39.62	0.13
DASYATIS SABINA	0.13	11.08	0.13
SYNODUS FOETENS	0.13	1.61	0.13
PORICHTHYS PLECTRODON	0.13	2.54	0.13
SYNGNATHUS SP.	0.13	0.13	0.13
EUCINOSTOMUS SP.	0.13	0.26	0.13
PRIONOTUS TRIBULUS	0.13	0.66	0.13
BREVOORTIA PATRONUS	0.06	0.49	0.06
OPHISTHONEMA OGILINUM	0.06	5.06	0.06
SARDINELLA AURITA	0.06	0.32	0.06
BAGRE MARINUS	0.06	2.25	0.06
SYNGNATHUS FLORIDAE	0.06	0.03	0.06
ANCYLOPSETTA QUADROCELLATA	0.06	3.29	0.06
MONACANTHUS CILIATUS	0.06	0.21	0.06
UNIDENTIFIED-DAMAGED	0.06	0.01	0.06

PENAEUS DUORARUM	53.25	115.26	0.94
TRACHYPENAEUS SIMILIS	15.75	7.81	0.38
PORTUNUS GIBBESI	15.75	38.91	0.88
LOLLIGUNCULA BREVIS	13.63	68.77	0.88
CALLINECTES SAPIDUS	10.06	936.86	1.00
SQUILLA EMPUSIA	2.94	8.54	0.19
ALPHEUS HETEROCHAELIS	1.31	0.97	0.25
XANTHIDAE	1.31	0.82	0.63
CALLINECTES ORNATUS	0.31	4.07	0.31
BALAEON FLORIDANUS	0.25	0.10	0.06
METOPORHAPHIS CALCARATA	0.19	0.07	0.19
LOLLIGO PEALI	0.13	0.54	0.13
PORTUNUS SPINIMANUS	0.06	0.16	0.06
MENIPPE MERCENARIA	0.06	0.20	0.06
SESARMA CINEREUM	0.06	0.06	0.06

IMPINGEMENT

SPECIES, NUMBER AND WEIGHT OF ORGANISMS COLLECTED

UNIT 1

NOVEMBER 1983

SPECIES NAME	AVERAGE NUMBER PER 6 HOUR COLLECTION	AVERAGE WEIGHT PER 6 HOUR COLLECTION	FREQUENCY SAMPLED
EUCINOSTOMUS ARGENTEUS	4.86	8.05	0.29
OGCOCEPHALUS RADIATUS	3.36	251.91	0.86
EUCINOSTOMUS GULA	2.71	11.81	0.21
ARIUS FELIS	1.14	6.73	0.50
MONACANTHUS HISPIDUS	1.07	1.12	0.43
ANCHOA MITCHILLI	0.79	0.17	0.21
SYNGNATHUS LOUISIANAE	0.57	0.55	0.43
CHLOROSCOMBRUS CHRYSURUS	0.57	0.42	0.36
HAEMULON AUROLINEATUM	0.57	2.00	0.21
CHILOMYCTERUS SCHOEPI	0.13	60.99	0.36
BAIRDIELLA CHRYSOURA	0.36	6.91	0.29
CHAEODIPTERUS FABER	0.29	1.53	0.29
LACTOPHRYS QUADRICORNIS	0.29	28.40	0.21
SPHOERODES NEPHELUS	0.29	1.63	0.29
HYPORHAMPUS UNIFASCIATUS	0.21	0.61	0.21
ETROPUS CROSSOTIS	0.21	0.89	0.07
STRONGYLURA NOTATA	0.14	1.50	0.14
MEMBRAS MARTINICA	0.14	0.50	0.14
MENIDIA SP.	0.14	0.42	0.14
OLIGOPLITES SAURUS	0.14	0.51	0.14
TRACHINOTUS FALCATUS	0.14	1.00	0.14
EUCINOSTOMUS SP.	0.14	0.36	0.14
MUGIL CEPHALUS	0.14	9.06	0.14
OPHICHTHUS GOMESI	0.07	1.72	0.07
CLUPEID	0.07	0.09	0.07
SARDINELLA AURITA	0.07	0.29	0.07
PORICHTHYS PLECTRODON	0.07	0.68	0.07
STRONGYLURA MARINA	0.07	0.51	0.07
HIPPOCAMPUS ERECTUS	0.07	0.03	0.07
SYNGNATHUS FLORIDAE	0.07	0.06	0.07
RYPTICUS SAPONACEUS	0.07	0.77	0.07
LUTJANUS GRISEUS	0.07	0.14	0.07
LAGODON RHOMBOIDES	0.07	0.86	0.07
MICROGOBIUS THALASSINUS	0.07	0.02	0.07
PRIONOTUS SCITULUS	0.07	0.31	0.07
ACHIRUS LINEATUS	0.07	0.07	0.07
TRINECTES MACULATUS	0.07	0.28	0.07
SYMPHURUS PLAGIUSA	0.07	0.72	0.07
ALUTERUS SCHOEPI	0.07	0.17	0.07
MONACANTHUS CILIATUS	0.07	0.26	0.07
PENAEUS DUORARUM	10.36	25.76	0.86
PORTUNUS GIBBESI	2.64	8.65	0.86
SQUILLA EMPUSIA	1.86	10.87	0.14

METOPORHAPHIS CALCARATA	1.57	0.41	0.36
CALLINECTES SAPIDUS	1.50	30.59	0.71
XANTHIDAE	1.43	0.96	0.79
BALAEON FLORIDANUS	0.36	0.14	0.21
LOLLIGUNCULA BREVIS	0.36	3.39	0.36
ALPHEUS HETEROCHAEIS	0.29	0.18	0.07
MENIPPE MERCENARIA	0.29	13.75	0.29
PETROLISTHES ARMATUS	0.14	0.04	0.14
TRACHYPENAEUS SIMILIS	0.07	0.04	0.07
UPOGEBIA AFFINIS	0.07	0.08	0.07
LOLLIGO PEALI	0.07	0.84	0.07

IMPINGEMENT

SPECIES, NUMBER, AND WEIGHT OF ORGANISMS COLLECTED

UNIT 2

NOVEMBER 1983

SPECIES NAME	AVERAGE NUMBER PER 6 HOUR COLLECTION	AVERAGE WEIGHT PER 6 HOUR COLLECTION	FREQUENCY SAMPLED
OGCOCEPHALUS RADIATUS	7.64	671.04	0.91
ARIUS FELIS	6.91	28.24	0.45
MONACANTHUS HISPIDUS	2.55	3.16	0.55
MENIDIA SP.	2.09	5.25	0.45
CHLOROSCOMBRUS CHRYSURUS	1.91	2.80	0.64
EUCINOSTOMUS ARGENTEUS	1.00	0.85	0.36
OLIGOPLITES SAURUS	0.91	1.56	0.45
CHAETODIPTERRUS FABER	0.64	5.25	0.27
HYPORHAMPUS UNIFASCIATUS	0.55	6.20	0.36
MEMBRAS MARTINICA	0.45	1.61	0.36
SYNGNATHUS LOUISIANAE	0.45	0.31	0.18
LAGODON RHOMBOIDES	0.45	7.04	0.27
CHILOMYCTERUS SCHOEPI	0.45	55.84	0.36
ANCHOA MITCHILLI	0.36	0.24	0.18
HIPPOCAMPUS ERECTUS	0.27	0.29	0.27
SELENE VOMER	0.27	3.06	0.18
BAIRDIELLA CHRYSOURA	0.27	5.40	0.27
SPHEROIDES NEPHELUS	0.27	1.06	0.18
ANCHOA HEPSETUS	0.18	0.31	0.18
LUTJANUS GRISEUS	0.18	0.41	0.18
MUGIL CEPHALUS	0.18	38.41	0.18
LACTOPHRYS QUADRICORNIS	0.18	21.70	0.18
GYMNURA MICRURA	0.09	15.90	0.09
SARDINELLA AURITA	0.09	0.41	0.09
ANCHOA SP.	0.09	0.02	0.09
BAGRE MARINUS	0.09	0.89	0.09
STRONGYLURA NOTATA	0.09	0.24	0.09
MENIDIA BERYLLINA	0.09	0.32	0.09
RYPTICUS SAPONACEUS	0.09	0.05	0.09
EUCINOSTOMUS GULA	0.09	0.26	0.09
CYNOSCION NEBULOSUS	0.09	2.10	0.09
CHASMODES SUBURRAE	0.09	1.64	0.09
ACHIRUS LINEATUS	0.09	0.08	0.09
TRINECTES MACULATUS	0.09	3.73	0.09
MONACANTHUS CILIATUS	0.09	0.31	0.09
PENAEUS DUORARUM	12.82	36.75	1.00
LOLLIGUNCULA BREVIS	11.18	34.95	1.00
PORTUNUS GIBBESI	7.27	12.76	1.00
CALLINECTES SAPIDUS	5.27	275.01	1.00
METOPORHAPHIS CALCARATA	1.00	0.36	0.27
XANTHIDAE	0.45	0.13	0.36
ALPHEUS HETEROCHAEIS	0.27	0.15	0.27
BALAEON FLORIDANUS	0.18	0.07	0.18

PETROLISTHES ARMATUS
ANEMONE
SQUILLA EMPUSIA
MENIPPE MERCENARIA

0.18
0.09
0.09
0.09

0.05
0.01
0.42
7.59

0.18
0.09
0.09
0.09

IMPINGEMENT

SPECIES, NUMBER, AND WEIGHT OF ORGANISMS COLLECTED

UNIT 3

NOVEMBER 1983

SPECIES NAME	AVERAGE NUMBER PER 6 HOUR COLLECTION	AVERAGE WEIGHT PER 6 HOUR COLLECTION	FREQUENCY SAMPLED
OGCOEPHALUS RADIATUS	15.25	1179.44	1.00
ANCHOA MITCHILLI	4.50	3.22	0.69
EUCINOSTOMUS ARGENTEUS	2.88	3.51	0.50
EUCINOSTOMUS GULA	2.44	11.50	0.44
ARIUS FELIS	2.25	39.62	0.63
MONACANTHUS HISPIDUS	1.75	1.31	0.56
SYNGNATHUS LOUISIANAE	1.63	1.61	0.63
HAEMULON AUROLINEATUM	1.44	7.52	0.44
CHAETODIPTERYGIUS FABER	1.38	8.01	0.63
BAIRDIELLA CHRYSOURA	1.06	12.72	0.50
CHLOROSCOMBRUS CHRYSURUS	0.94	0.94	0.50
HYPORHAMPHUS UNIFASCIATUS	0.63	5.82	0.44
CHILOMYCTERUS SCHOEPI	0.63	86.84	0.44
ANCHOA SP.	0.56	0.26	0.25
OLIGOPLITES SAURUS	0.50	0.94	0.38
LACTOPHRYS QUADRICORNIS	0.50	91.31	0.25
LAGODON RHOMBOIDES	0.44	5.64	0.19
SPHOERODES NEPHELUS	0.44	1.63	0.25
HIPPOCAMPUS ERECTUS	0.38	1.93	0.38
MEMBRAS MARTINICA	0.31	1.06	0.25
ORTHOPRISTIS CHRYSOPTERA	0.31	5.34	0.13
BAGRE MARINUS	0.25	15.36	0.19
OPSANUS BETA	0.25	0.53	0.19
STRONGYLURA NOTATA	0.25	0.77	0.25
BREVOORTIA PATRONUS	0.19	25.60	0.13
ANCHOA HEPSETUS	0.19	0.94	0.19
SELENE VOMER	0.19	1.52	0.19
TRINECTES MACULATUS	0.19	5.22	0.13
CYNOSCION NEBULOSUS	0.13	0.63	0.13
LEIOSTOMUS XANTHURUS	0.13	3.08	0.06
ETROPUS CROSSOTUS	0.13	1.12	0.06
ACHIRUS LINEATUS	0.13	0.23	0.13
HARENGULA JAGUANA	0.06	0.82	0.06
SARDINELLA AURITA	0.06	0.45	0.06
PORICHTHYS PLECTRODON	0.06	0.12	0.06
MENIDIA SP.	0.06	0.24	0.06
SYNGNATHUS FLORIDAE	0.06	0.01	0.06
HIPPOCAMPUS SP.	0.06	0.04	0.06
RYPTICUS SAPONACEUS	0.06	125.00	0.06
RACHYCENTRON CANADUM	0.06	0.29	0.06
TRACHINOTUS FALCATUS	0.06	0.24	0.06
MUGIL CEPHALUS	0.06	34.46	0.06
PRIONOTUS SCITULUS	0.06	0.14	0.06
ALUTERUS SCHOEPI	0.06	0.15	0.06
MONACANTHUS CILIATUS	0.06	0.12	0.06

SPHOEROIDES SPENGLERI	0.06	2.75	0.06
SPHOEROIDES SP.	0.06	0.26	0.06
LAGOCEPHALUS LAEVIGATUS	0.06	37.11	0.06
PENAEUS DUORARUM	28.56	72.42	0.94
PORTUNUS GIBBESI	11.69	48.46	1.00
CALLINECTES SAPIDUS	9.50	582.54	0.94
LOLLIGUNCULA BREVIS	8.50	21.57	1.00
SQUILLA EMPUSIA	3.00	11.90	0.31
TRACHYPENAEUS SIMILIS	1.19	0.83	0.31
XANTHIDAE	0.75	0.64	0.44
METOPORHAPHIS CALCARATA	0.63	0.19	0.25
BALAEON FLORIDANUS	0.31	0.17	0.19
MENIPPE MERCENARIA	0.31	3.43	0.19
ALPHEUS HETEROCHAEIS	0.25	0.27	0.06
LOLLIGO PEALI	0.19	4.69	0.06
PETROLISTHES ARMATUS	0.13	0.06	0.13
PENAEUS SETIFERUS	0.06	0.65	0.06
PALAEONIDAE	0.06	0.01	0.06
CALLINECTES ORNATUS	0.06	1.97	0.06
PORTUNUS SPINIMANUS	0.06	2.19	0.06

SAS

ENTRAINMENT

DENSITY BY STATION

NUMBER PER 100 CUBIC METERS

JUNE 23, 1983

SPECIES NAME	A	B	C	D	E	F	G	H	I	J	K
FAMILY CLUPEIDAE	9.873	0.000	0.000	0.390	0.000	0.000	0.000	0.000	0.000	0.000	0.000
CLUPEID	2.583	0.000	0.282	0.000	0.000	0.000	0.262	6.000	0.000	0.000	0.000
HARENGULA JAGUANA	108.473	0.000	0.000	0.000	0.000	0.000	0.000	155.640	44.608	18.917	0.000
OPHISTHONEMA OGLINUM	56.257	1.203	0.000	0.000	0.000	2.022	0.000	157.550	6.625	12.108	0.000
FAMILY ENGRAULIDAE	3.145	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ANCHOA HEPSETUS	16.767	1.708	0.000	0.375	0.000	0.000	0.000	0.000	0.000	0.000	1.667
ANCHOA MITCHILLI	0.000	28.415	268.982	37.523	30.353	32.803	4.940	0.285	0.000	4.713	2.583
GOBIESOX STRUMOSUS	0.000	0.000	0.000	0.000	0.000	0.543	0.000	0.000	0.000	0.000	0.000
FAMILY ANTENNARIIDAE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.307
HYPORHAMPHUS UNIFASCIATUS	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.000	0.000	0.732
MEMBRAS MARTINICA	0.000	0.000	0.000	0.000	0.000	2.022	0.000	0.000	0.000	0.000	0.000
MENIDIA BERYLLINA	0.000	0.000	0.000	0.000	0.000	0.588	0.778	0.000	0.000	0.000	0.000
SYNGNATHUS FLORIDAE	0.000	0.265	0.000	0.000	0.000	0.000	0.000	0.285	0.000	0.328	0.000
SYNGNATHUS LOUISIANAE	0.517	0.000	0.000	0.443	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SYNGNATHUS SCOVELLI	0.000	0.378	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
OLIGOPLITES SAURUS	0.000	0.000	0.000	0.443	0.000	0.000	0.000	0.000	0.000	0.000	0.000
EUCINOSTOMUS ARGENTEUS	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.307
FAMILY SCIAENIDAE	156.080	4.127	17.317	22.725	17.917	8.833	11.345	260.650	170.685	253.978	0.000
BATROIDEA CHRYSOURA	0.988	1.763	1.510	0.000	0.500	0.492	2.563	1.975	0.333	0.328	0.000
CYNOSCION ARENARIUS	1.453	6.617	0.000	0.000	0.000	0.000	0.262	0.467	0.335	0.000	0.000
CYNOSCION NEBULOSUS	3.538	0.000	0.000	0.382	0.000	0.543	0.745	4.222	0.670	0.317	0.687
CHAETUDIPTERUS FABER	0.000	0.000	0.000	0.000	0.000	0.000	0.850	0.000	0.000	0.000	0.000
UNIDENTIFIED BLENNY	1.078	4.147	0.753	1.563	0.797	8.417	8.287	3.832	2.868	12.867	37.835
FAMILY CALLIONYMIDAE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.975	0.000	0.000	0.000
FAMILY Gobiidae	0.520	0.000	0.235	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2.583
BATHYGobiUS SOPORATOR	0.000	0.000	0.000	0.000	0.000	1.035	0.850	1.838	0.000	4.750	1.250
GOBIONELLUS HASTATUS	0.000	0.000	0.452	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
GOBIOSOMA ROBUSTUM	4.837	10.617	7.557	2.997	2.920	82.450	56.727	3.708	11.265	30.992	19.117
MICROGobiUS GULOSUS	0.000	4.940	2.995	0.000	0.493	43.750	43.667	0.793	0.333	6.100	0.000
PRIONOTUS SP.	0.468	0.000	0.000	0.000	0.000	0.000	0.000	0.752	0.000	0.997	0.000
FAMILY TRIGLIDAE/SOLEIDAE	6.233	0.167	1.037	3.340	30.403	1.742	3.318	4.632	0.000	5.777	0.833
ACHIRUS LINEATUS	7.435	1.468	2.892	3.150	2.333	4.013	3.862	4.707	0.335	2.225	1.103
TRINECTES MACULATUS	0.000	0.000	0.000	0.442	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SYMPHURUS PLAGIUSA	0.938	0.000	0.000	0.000	0.000	0.000	0.000	0.487	0.000	0.000	0.000
MONACANTHUS SP.	0.863	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
FAMILY TETRAODONTIDAE	0.000	0.000	0.000	0.443	0.000	0.000	0.000	0.000	0.000	0.000	0.000
FAMILY DIODONTIDAE	0.520	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
UNIDENTIFIED	43.643	7.633	12.467	69.542	54.233	15.525	7.933	58.970	60.068	84.077	203.845
UNIDENTIFIED-DAMAGED	0.000	0.000	4.180	0.382	0.000	0.323	1.053	7.353	0.000	0.000	0.000
PENAEUS SP.	0.000	2.250	0.968	0.000	0.000	0.000	10.350	0.000	1.917	0.000	21.183
TRACHYPENAEUS SP.	0.520	0.000	0.000	0.000	0.000	0.000	0.000	1.867	0.000	0.000	0.000
MENIPPE MERCENARIA	365.950	10.355	9.840	55.073	33.797	10.760	11.637	297.997	41.428	23.273	6.905

SAS

ENTRAINMENT

DENSITY BY STATION

NUMBER PER 100 CUBIC METERS

JULY 6, 1983

SPECIES NAME	A	B	C	D	E	F	G	H	I	J	K
FAMILY CLUPEIDAE	0.000	0.000	0.000	0.000	0.907	0.212	0.000	62.167	1.797	0.000	0.000
CLUPEID	2.015	0.000	0.000	0.000	0.178	2.845	0.000	0.430	0.000	0.000	0.000
HARENGULA JAGUANA	1.672	0.000	0.000	0.000	1.180	0.167	0.000	12.677	29.812	3.383	96.225
OPHISTHONEMA OGILINUM	30.847	8.825	26.477	19.053	10.562	19.140	34.997	381.838	476.780	127.917	147.158
FAMILY ENGRAULIDAE	0.000	0.000	43.818	0.338	0.178	0.000	0.000	0.000	0.000	0.000	0.000
ANCHOA HEPSETUS	0.270	3.070	2.325	0.568	0.150	1.138	2.345	0.293	0.000	3.833	0.193
ANCHOA MITCHILLI	0.000	78.428	106.408	135.605	131.825	43.140	119.908	0.893	0.257	16.487	0.468
ANCHOA SP.	0.405	3.785	19.967	1.370	0.150	9.467	2.943	2.352	0.000	0.000	0.518
SYNODUS FOETENS	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.162
GOBIESOX STRUMOSUS	0.000	0.353	0.458	0.188	0.000	0.000	0.000	0.000	0.000	0.207	0.000
FAMILY EXOCOETIDAE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.167	0.000
HYPORHAMPHUS UNIFASCIATUS	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.292	0.452	0.000
FAMILY BELONIDAE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.178	0.000
STRONGYLURA MARINA	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.125	0.207	0.000
MEMBRAS MARTINICA	0.000	0.000	0.000	0.000	0.000	0.000	0.198	0.000	0.000	0.000	0.000
HIPPOCAMPHUS ERECTUS	0.000	0.000	0.000	0.000	0.000	0.000	0.172	0.000	0.183	0.118	0.000
SYNGNATHUS FLORIDAE	0.283	0.000	0.167	0.153	0.178	0.000	0.000	0.000	0.685	0.213	0.000
SYNGNATHUS LOUISIANAE	0.000	0.000	0.000	0.000	0.000	0.188	0.328	0.587	0.125	0.000	0.482
SYNGNATHUS SCOVELLI	0.000	0.095	0.000	0.000	0.000	0.000	0.820	0.000	0.000	0.000	0.345
FAMILY CARANGIDAE	0.000	0.000	0.167	0.000	0.000	0.000	0.000	0.163	0.000	0.000	0.000
CHLOROSCOMBRUS CHRYSURUS	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
OLIGOPLITES SAURUS	0.000	0.000	0.342	0.000	0.000	0.000	0.000	0.000	0.908	0.118	0.525
EUCINOSTOMUS SP.	0.000	0.742	0.000	0.000	0.000	0.000	0.000	1.033	2.958	0.000	0.000
FAMILY SCIAENIDAE	532.383	3.067	133.213	8.167	1.087	39.728	24.638	106.117	70.233	45.870	125.803
BAIRDIELLA CARYSOURA	0.000	0.272	1.227	0.188	0.000	0.000	0.370	0.647	0.183	0.118	0.162
CYNOSCION ARENARIUS	0.760	0.000	0.408	0.000	0.000	0.000	0.237	2.863	0.167	0.167	0.000
CYNOSCION NEBULOSUS	0.407	1.210	6.557	0.000	0.000	3.917	7.622	20.067	2.797	6.955	8.250
MENTICIRRHUS AMERICANUS	0.000	0.000	0.335	0.000	0.000	0.000	0.000	0.345	0.000	0.000	0.000
MENTICIRRHUS SAXATILIS	0.000	0.000	0.000	0.000	0.358	0.000	0.000	4.717	0.000	0.000	0.000
MENTICIRRHUS SP.	0.000	0.000	0.520	0.188	0.000	0.578	0.370	0.378	0.257	0.118	0.322
CHAETODIPTERUS FABER	0.000	0.000	0.000	0.000	0.000	0.588	0.237	2.432	0.513	0.285	0.000
PARACILLINUS FASCIATUS	0.000	0.000	0.000	0.000	0.000	0.000	0.272	0.000	0.000	0.000	4.463
FAMILY BLENNIIDAE	2.387	2.597	9.618	0.570	1.360	0.992	2.722	0.000	0.500	1.027	1.167
UNIDENTIFIED BLENNY	C.000	0.000	5.217	0.202	0.638	5.205	4.717	3.350	1.340	10.217	3.328
FAMILY CALLIONYMIDAE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.433	0.000	0.000	0.000
FAMILY GOBIIDAE	0.000	0.000	0.000	0.000	1.108	0.000	0.000	0.000	0.335	0.000	0.000
BATHYGOBIUS SOPORATOR	C.000	0.353	3.512	0.403	0.208	0.578	1.803	1.888	0.183	2.827	1.330
GOBIOSOMA ROBUSTUM	5.220	17.982	56.630	1.353	2.278	131.925	171.517	37.972	4.953	369.238	45.755
MICROGOBIUS GULOSUS	0.000	4.870	6.602	0.540	0.480	13.963	50.667	1.058	0.000	0.452	0.000
MICROGOBIUS LONGIPINNIS	0.000	0.000	0.000	0.000	0.000	0.000	5.567	0.000	0.000	0.000	0.000
PRIONOTUS SP.	0.000	0.235	0.000	0.188	0.208	0.000	0.283	4.417	0.000	0.620	0.365
FAMILY TRIGLIDAE/SOLEIDAE	2.660	0.000	0.675	1.540	0.555	2.150	18.317	11.447	15.667	19.417	9.242
ACHIRUS LINEATUS	5.727	2.365	2.483	0.180	1.115	1.797	5.208	4.777	2.282	2.562	0.882
TRINECTES MACULATUS	0.000	0.000	0.000	0.193	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SYMPHURUS PLAGIUSA	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.835	0.000	0.000	0.000
MONACANTHUS SP.	0.000	0.767	0.000	0.000	0.000	0.210	0.198	1.258	1.067	0.285	0.648

SAS

ENTRAINMENT

DENSITY BY STATION

NUMBER PER 100 CUBIC METERS

JUNE 23, 1983

SPECIES NAME	STATION			
	L	M	N	P
HARENGULA JAGUANA	0.000	22.667	0.000	0.000
OPHISTHONEMA OGLINUM	1.200	4.533	0.000	0.000
FAMILY ENGRAULIDAE	0.000	2.267	0.000	0.000
ANCHOA MITCHILLI	46.303	10.033	153.785	7.883
LUCANIA PARVA	0.000	0.475	0.000	0.000
MEMBRAS MARTINICA	2.027	0.000	0.000	0.000
HIPPOCAMPUS ERECTUS	0.000	0.000	1.037	0.000
SYNGNATHUS LOUISIANAE	0.000	0.000	1.090	0.000
LAGODON RHOMBOIDES	0.000	4.607	0.000	0.000
BAIRDIELLA CHRYSOURA	0.000	7.833	0.000	0.000
CYNOSCION ARENARIUS	1.158	0.000	5.910	0.280
CYNOSCION NEBULOSUS	0.000	0.000	0.613	0.000
MENTICIRRHUS SAXATILIS	0.000	0.000	0.297	0.000
UNIDENTIFIED BLENNY	0.337	3.155	0.593	0.000
FAMILY GOBIIDAE	0.000	0.000	0.613	0.000
GOBIONELLUS HASTATUS	0.340	0.000	0.000	0.000
GOBIOSOMA ROBUSTUM	8.743	88.200	10.417	3.697
MICROGOBIUS GULOSUS	5.203	22.033	26.067	0.000
FAMILY TRIGLIDAE/SOLEIDAE	0.000	0.000	1.485	0.000
ACHIRUS LINEATUS	0.340	0.000	4.563	1.525
UNIDENTIFIED	0.815	18.133	10.143	0.000
UNIDENTIFIED-DAMAGED	1.823	4.550	0.297	0.382
PENAEUS SP.	1.200	16.840	1.188	0.612
MENIPPE MERCENARIA	3.600	20.433	1543.550	0.000

SAS

2

ENTRAINMENT

DENSITY BY STATION

NUMBER PER 100 CUBIC METERS

JULY 6, 1983

SPECIES NAME	STATION			
	L	M	N	P
CLUPEID	0.677	0.000	0.000	0.000
ANCHOA MITCHILLI	206.488	7.382	3369.695	149.167
ANCHOA SP.	0.000	0.485	0.000	0.000
FAMILY CYPRINODONTIDAE	0.000	0.575	47.500	0.000
SYNGNATHUS SCOVELLI	0.000	2.157	0.388	0.000
EUCINOSTOMUS SP.	0.000	3.100	55.500	0.000
LAGODON RHOMBOIDES	0.000	1.167	0.000	0.000
FAMILY SCIAENIDAE	0.487	0.000	0.000	0.000
CYNOSCION NEBULOSUS	0.677	2.852	0.000	0.000
MENTICIRRHUS SAXATILIS	0.677	0.000	0.000	0.000
UNIDENTIFIED BLENNY	0.000	9.715	55.903	86.067
FAMILY GOBIIDAE	0.677	0.000	0.000	36.167
BATHYGOBIUS SOPORATOR	1.163	0.000	4.617	1.967
GOBIOSOMA ROBUSTUM	1.480	107.097	676.342	226.333
MICROGOBIUS GULOSUS	2.682	7.075	95.403	0.000
ACHIRUS LINEATUS	1.480	2.472	0.000	0.000
UNIDENTIFIED	0.375	1.412	0.000	36.167
UNIDENTIFIED-DAMAGED	0.000	6.900	0.000	0.000
PENAEUS SP.	0.648	4.283	231.417	28.167
CALLINECTES SAPIDUS	0.000	1.547	4.617	0.000
MENIPPE MERCENARIA	42.683	3.525	0.000	0.000

4.4 FISHERIES

FISHERIES SAMPLING COLLECTIONS
TOTAL NUMBER COLLECTED OVER ALL REPS FOR
TRAWL
JUNE 1983

STATION	T1	T2	T3	T4	T5	T6	T7	T8	T9
GAFFA MICRURA	0	2	0	0	0	0	0	0	0
ASTERA MITCHELLI	1	12	15	55	1	0	1	0	0
LABRUS FOETENS	0	0	0	0	0	0	0	0	0
APUS TELIS	1	0	1	4	3	6	2	9	0
MYXODONTOMUS BETA	3	1	0	0	1	0	3	0	1
MYXODONTOMUS RADIATUS	0	1	1	0	5	1	5	0	0
MYXODONTOMUS ERECTUS	0	0	0	0	0	1	0	0	0
CAHILLIUS STRIATA	0	0	0	0	3	0	0	0	0
MYXODONTOMUS BIVITTATUM	0	0	0	0	0	1	1	0	0
MYXODONTOMUS FORMOSUM	0	0	0	0	0	0	7	1	17
MYXODONTOMUS PLUMIERI	0	3	0	0	0	0	2	3	1
MYXODONTOMUS CHRYSOPTERA	4	13	0	6	12	2	26	11	59
CALAMUS ARCTIFONS	0	0	0	0	0	0	2	1	5
DEFLORIS HOLBROOKI	0	0	0	0	0	0	0	0	1
LAGROM RHOMBODES	24	11	4	1	12	6	0	11	32P
CAHILLIUS CHRYSOURA	160	241	5	13	0	0	86	5	21
MYXODONTOMUS ARENARIUS	2	7	1	1	1	0	0	0	1
MYXODONTOMUS XANTHURUS	338	12	20	0	0	0	0	3	10
MYXODONTOMUS AMERICANUS	2	0	1	0	0	0	0	0	0
MYXODONTOMUS SCITULUS	0	3	1	2	1	0	0	0	0
MYXODONTOMUS TRIBULUS	0	0	1	0	3	0	0	0	0
MYXODONTOMUS CROSSOTUS	0	13	5	0	1	0	0	0	0
MYXODONTOMUS ALBIGUTTA	2	1	1	0	1	1	2	2	1
MYXODONTOMUS BOTHID	0	6	0	0	1	0	0	0	0
MYXODONTOMUS FLAGUSA	3	4	6	0	0	0	0	0	0
MYXODONTOMUS HISPIDUS	0	0	0	0	1	0	0	0	0
MYXODONTOMUS QUADRICORNIS	0	0	0	0	2	1	6	0	11
MYXODONTOMUS NEPHELUS	0	0	0	0	0	0	0	0	1
MYXODONTOMUS SCHUEPFI	0	0	0	0	0	0	2	0	1
TOTAL NUMBER OF FISH	540	327	62	82	43	19	145	46	472
GOMELLA EMPUSIA	0	0	2	1	1	0	0	0	0
PERCAEUS DUORARUM	53	33	7	15	10	2	2	0	5
PERCAEUS PENNAEUS SIMILIS	0	25	14	3	15	2	10	6	0
PERCAEUS FLORIDANUS	0	4	0	0	0	0	0	0	0
PERCAEUS VULGARIS	0	0	0	0	0	1	2	0	0
TOXOTOMA CAROLINENSE	0	0	0	0	0	0	0	0	9
PERCAEUS ARMATUS	0	0	0	0	1	0	0	12	2
PERCAEUS SP.	0	0	0	0	0	0	2	0	0
PERCAEUS SP.	0	0	0	0	0	0	0	1	0
PERCAEUS GYMNOCTACTUS	0	2	0	0	0	0	7	1	0
PERCAEUS SP.	0	1	0	0	0	0	0	0	0
CALLIBRIGES SAPIDUS	19	2	0	3	0	0	3	0	1
PERCAEUS GIBBERI	0	11	8	7	8	0	1	1	0
PERCAEUS SP.	0	0	0	0	0	0	0	3	0
PERCAEUS TEXANA	0	0	1	0	1	2	6	6	2
PERCAEUS HERBSTII	0	6	0	0	2	1	22	0	1
PERCAEUS SAVI	0	0	0	0	0	0	3	3	1
PERCAEUS DUBIA	0	2	3	0	1	1	2	0	0
MYXODONTOMUS CALCARATA	0	0	0	0	1	0	5	2	0
MYXODONTOMUS BREVIS	0	2	2	1	0	0	0	0	0

TOTAL NUMBER OF INVERTEBRATES

[illegible]

FISHERIES SAMPLING COLLECTIONS
TOTAL NUMBER COLLECTED OVER ALL REPS FOR

JULY 1983

1998

[illegible]

	489	186	409	214	164	99	165	41	238
AMPHIPLATER SYMMETRICUS	0	0	0	1	0	0	0	2	1
PELOPLATHES ARMATUS	0	0	0	0	0	0	38	1	1
PELOPLATHES GALATHINUS	0	0	1	0	0	0	0	0	0
PAGURUS GYMNODACTYLUS	0	7	11	0	1	1	0	1	1
PAGURUS LONGICARPUS	0	0	0	0	0	1	0	0	0
PAGURUS POLLICARIS	0	0	0	0	1	1	0	1	1
PAGURUS SP.	1	1	2	0	0	0	0	0	0
HEPAIUS EPHELITICUS	0	0	0	0	0	0	0	0	1
CALLINectes SAPIDUS	2	6	2	5	0	0	1	0	0
PORTUNUS GIBBESI	3	10	99	34	15	19	4	1	0
TOP-FALGAPUS DEPRESSUS	2	1	0	0	0	0	2	0	0
MELITE MERCENARIA	0	0	0	0	0	2	2	0	2
NEOPARPE TEXANA	20	6	42	17	1	2	9	1	5
TARDEUS HERBSTII	7	1	0	11	0	0	2	0	1
VIORINUS SAYI	0	0	0	0	0	0	1	0	2
LIBINIA DUELA	0	1	6	3	0	0	7	1	0
METOPORHAPHIS CALCARATA	0	0	0	0	2	0	11	1	0
LOLEGINCULA BREVIS	0	0	0	0	0	1	0	1	0
BRACHALPINX SP.	0	0	4	0	0	5	0	0	0
ACTEULIDAE	0	0	0	0	0	0	4	1	41
TOTAL NUMBER OF INVERTEBRATES	489	186	409	214	164	99	165	41	238

FISHERIES SAMPLING COLLECTIONS
TOTAL NUMBER COLLECTED OVER ALL REPS FOR

SPECIES NAME	AUGUST 1983										STATION		T5	T6	T7	T8	T9
	T1	T2	T3	T4	T5	T6	T7	T8	T9								
DAIATIS SABINA	1	0	0	0	1	1	0	0	0	1	1	0	0	0	0	0	
GERRHIA MICRURA	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
OPHELODONTOMA OGLINUM	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	
ANCHOA MIPSETUS	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ANCHOA MITCHELLI	3	77	19	6	10	0	0	0	0	0	0	0	0	0	2	0	
APTUS FELIS	7	1	0	1	5	9	0	0	0	0	0	0	0	0	0	0	
APTUS MARINUS	2	5	1	6	1	0	0	0	0	0	0	0	0	0	0	0	
OPSANUS BETA	2	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
OPSANUS RADIATUS	0	1	0	0	1	1	0	0	0	0	0	0	0	0	0	0	
SYMPHYRUS FLORIDAE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
SYMPHYRUS LOUISIANAE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	
CENTROPOMUS STRIATA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	6	
HELECTRUM FORMOSUM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	
EUPHYSTOMUS ARGENTEUS	27	18	17	1	13	6	50	18	4	0	0	13	6	0	0	1	
EUPHYSTOMUS GULA	9	15	3	1	22	19	8	8	9	0	0	22	19	0	0	0	
HAMMON AUROLINEATUM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
HAMMON PLUMIERI	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
DIARRHINUS CHRYSOPTERA	5	4	6	0	2	1	13	20	65	0	0	2	1	2	0	0	
CALANUS ARCTIFRONS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
DIODONIS HOLBROOKI	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
LAGODON RHOMBODES	4	10	2	0	0	0	0	0	0	0	0	0	0	0	1	0	
HALELLUCLA CHRYSOURA	13	112	11	3	14	3	18	164	277	0	0	5	3	18	0	0	
CHRYSIPTERUS ARENARIUS	122	75	41	7	58	5	72	4	3	0	0	14	5	0	0	0	
CHRYSIPTERUS NEBULOSUS	1	0	0	0	0	0	3	5	8	0	0	0	0	0	0	0	
CHRYSIPTERUS XANTHURUS	136	112	4	40	9	10	0	0	0	0	0	9	0	0	0	0	
MINICHTERUS AMERICANUS	9	14	6	0	2	1	0	0	0	0	0	2	1	0	0	1	
CHALLOPIPTERUS FABER	2	3	2	1	2	1	0	0	0	0	0	0	0	0	0	0	
CHALLOPIPTERUS ROBUSTUM	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
PROCTERUS SCITULUS	0	0	0	0	5	1	0	1	0	0	0	5	1	0	1	0	
ETERNUS CROSOTUS	5	16	19	0	1	5	0	0	0	0	0	1	5	0	0	0	
PARALICHTHYS ALBIGUTTA	3	1	2	0	4	3	0	1	0	0	0	4	3	0	1	0	
TRINectes MACULATUS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
SYMPHYRUS PLAGIUSA	10	4	4	0	0	1	0	0	3	0	0	0	1	0	0	0	
MORINAEUS CILIATUS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
MORINAEUS HISPIDUS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
LACERATUS QUADRICORNIS	0	0	0	0	3	0	0	0	0	0	0	3	0	0	0	0	
SCORPAENIDUS NEPHELUS	0	0	1	0	0	0	1	0	0	0	0	0	0	1	0	0	
CHALLOPIPTERUS SCHIEPFI	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	
BRIDGESIIID-DAMAGED	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	
TOTAL NUMBER OF FISH	362	475	139	67	158	68	215	231	415		67	158	68	215	231	415	
SYMPHYRUS EMPUSIA	5	14	13	0	0	1	1	0	0	0	0	0	1	1	0	0	
SYMPHYRUS INDIANUS	177	199	69	104	55	5	164	106	120		104	55	5	164	106	120	
SYMPHYRUS SIMILIS	4	16	19	0	0	40	1	33	40		0	0	40	1	33	40	
LACERATUS FLORIDANUS	3	0	0	0	0	0	9	0	0		0	0	0	9	0	0	
LACERATUS INTERMEDIUS	7	1	0	0	0	0	0	0	0		0	0	0	0	0	0	
LACERATUS VULGARIS	0	0	0	0	0	0	2	0	0		0	0	0	2	0	0	
PERCINAE LONGICAUDATUS	0	0	0	0	0	0	3	0	0		0	0	0	3	0	0	
ALBIPINNUS HETEROCHEILIS	1	0	0	1	0	0	0	0	0		1	0	0	0	0	0	
TOXOPTERUS CAROLINENSE	0	0	0	0	1	0	0	39	190		0	1	0	0	39	190	
APLIDACTIS SYMMETRICUS	0	0	0	0	1	0	1	1	3		0	1	0	1	1	3	

	217	264	120	108	73	76	248	218	510
PELAGIUS ARMATUS	1	0	0	0	0	0	0	0	8
PAGIUS GYMNOCTACTUS	0	10	0	0	3	0	0	0	0
PAGIUS LONGICARPUS	1	0	0	0	0	3	0	0	0
PAGIUS POLLICARIS	0	0	0	0	1	3	0	0	0
PAGIUS SP.	0	0	0	1	0	5	0	0	0
PEROPHONA PUNCTATA	0	1	0	0	0	0	0	1	0
CALLIBICUS SAPIDUS	16	4	0	1	0	0	1	0	0
PORTIUS GIBBES	0	9	12	0	8	8	0	0	0
ZANITHIDAE	1	1	0	1	0	0	0	0	1
MELIPPE MERCENARIA	0	0	0	0	0	1	0	1	6
NEOPAGUS TEXANA	1	7	1	0	1	2	23	3	1
PANDEUS HERBSTII	0	0	0	0	0	0	7	1	0
PLEURUS SAVI	0	0	0	0	0	0	1	0	2
LEICHTA DUBIA	0	1	3	0	0	1	9	0	0
METOPHAPHIS CALCARATA	0	0	0	0	2	0	2	0	0
LOTTOPHICULA BREVIS	0	0	0	0	0	1	0	0	0
UROSALENIX SP.	0	1	3	0	0	6	0	1	0
ECOTERODERMATA	0	0	0	0	0	0	0	1	0
EUDIA SP.	0	0	0	0	0	0	0	0	1
ECODIASTER SP.	0	0	0	0	0	0	18	24	138
TOTAL NUMBER OF INVERTEBRATES	217	264	120	108	73	76	248	218	510

FISHERIES SAMPLING COLLECTIONS
TOTAL NUMBER COLLECTED OVER ALL REPS FOR
TRAWL

SPECIES NAME	SEPTEMBER 1983									
	T1	T2	T3	T4	T5	T6	T7	T8	T9	
DASYATTA SABINA	1	1	1	1	0	0	0	0	0	
GEMMADA MICRURA	1	1	0	0	0	0	0	0	0	
SABOTHIA AURITA	0	0	0	0	0	1	0	0	0	
ANCHORA MITCHILLI	10	24	4	40	1	0	0	0	0	
ASTIUS FELIS	13	10	24	10	7	1	0	0	0	
RAGGIE MARINUS	4	9	4	1	1	0	0	0	0	
OPLOCEPHALUS BETA	0	0	0	0	0	0	4	0	0	
OPLOCEPHALUS RADIATUS	0	0	0	0	4	1	1	3	0	
HETEROCAMPUS ERECTUS	0	0	0	0	0	0	1	0	0	
SYNGNATHUS FLORIDAE	0	0	0	0	0	0	0	0	3	
SYNGNATHUS LOUISIANAE	0	0	0	0	0	1	2	1	0	
SYNGNATHUS SCOVELLI	0	0	0	0	0	0	2	0	0	
GEMMADISTIS STRIATA	0	0	1	0	0	0	2	0	16	
FAMILY GRAMMISTIDAE	0	0	0	0	0	0	2	0	0	
CHIROPSOMERUS CHRYSURUS	2	11	1	2	6	3	0	0	0	
CELEPH VOMER	0	0	1	0	0	0	0	0	0	
PERISTOMUS ARGENTEUS	14	1	1	14	0	0	13	0	2	
PERISTOMUS GUIA	18	43	24	89	51	10	44	23	22	
HALMILON AUROLINEATUM	0	0	0	1	0	0	29	1	3	
OPLOCEPHALUS CHRYSOPTERA	6	3	6	0	7	2	9	8	66	
CALAMUS ARCTIFRONS	0	0	0	0	0	0	2	0	5	
LACERON RHOMBROIDES	1	9	0	0	14	4	6	5	217	
PARALICHTHYS CHRYSOURA	96	119	18	12	29	5	9	4	26	
CHIROCEPHALUS ARENARIUS	33	35	11	2	6	0	0	0	0	
CYRROCEPHALUS NEBULOSUS	3	4	0	1	0	0	2	1	2	
LEPTOCETUS XANTHURUS	137	63	50	17	7	6	0	1	1	
MELICETUS AMERICANUS	7	6	7	2	1	1	0	0	0	
MICROPYGONIAS UNIDULATUS	1	0	0	0	0	0	0	0	0	
CHALIDOPTERUS FABER	1	4	6	1	3	0	0	0	0	
PERIDOPTERUS SCITULUS	0	0	0	1	0	0	0	0	2	
PERIDOPTERUS TRIBULUS	1	0	0	0	0	0	0	0	0	
LEPORUS CROSOTUS	10	24	19	1	4	3	0	0	0	
PARALICHTHYS ALBIGUTTA	4	0	1	0	0	2	1	0	4	
LEPORUS MACULATUS	0	0	1	0	0	0	0	0	1	
SERRHUS PLAGIOSA	6	9	11	1	1	1	0	0	0	
MONACANTHUS CILIATUS	0	1	0	1	0	0	18	0	18	
MONACANTHUS HISPIDUS	0	0	0	0	0	0	0	1	0	
LACIDOPTERUS QUADRICORNIS	0	0	0	0	2	0	6	0	0	
CHILOMYCTERUS SCHOEFFI	0	0	0	0	0	0	2	1	1	
TOTAL NUMBER OF FISH	369	377	191	197	144	41	155	49	389	
GOODEA EMPUSIA	3	10	1	3	0	3	0	1	0	
PERIDOPTERUS FLORIDANUS	147	53	29	66	10	6	83	32	145	
PERIDOPTERUS SIMILIS	2	3	1	6	7	10	1	6	12	
HALMILON FLORIDANUS	0	5	0	0	0	0	3	0	0	
PERIDOPTERUS INTERMEDIUS	3	4	0	0	0	0	0	0	0	
PERIDOPTERUS AMERICANUS	0	0	0	0	0	0	2	1	0	
PERIDOPTERUS LONGICAUDATUS	0	0	0	0	0	0	1	0	0	
ALBIPUS HETEROCHEILIS	0	0	0	0	0	0	20	0	0	
ALBIPUS BOPMANNI	0	0	0	0	0	0	1	0	0	
HEPTACAMPUS ZOSTERICOLA	0	1	0	0	0	0	0	0	0	

	166	85	40	75	25	30	145	56	367
TOXIFERA CAROLINENSE	0	0	0	0	0	0	3	0	81
PEINOLLETIUS ARMATUS	0	0	0	0	0	0	4	2	30
PARONYX LONGICARPUS	0	0	0	0	0	2	0	0	0
PARONYX POLICARPUS	0	0	1	0	0	0	0	0	0
PARONYX SP.	0	0	1	0	0	0	0	0	0
CALATHIUS SAPIDUS	10	2	4	0	0	0	0	0	0
DOLEPHUS GIBBOSUS	0	1	4	0	8	6	5	4	2
DOLEPHUS	0	0	0	0	0	0	1	0	0
DOLEPHUS MERCENARIA	0	0	0	0	0	0	0	0	4
DOLEPHUS TEXANA	0	3	1	0	0	1	10	1	3
DOLEPHUS SAYI	0	0	0	0	0	0	0	1	10
LEPTINIA RUBRA	0	3	1	0	0	0	3	0	0
DOLEPHUS CALCARATA	0	0	0	0	0	0	8	4	0
DOLEPHUS BREVIS	0	0	1	0	0	1	0	0	0
DOLEPHUS CORONA	1	0	0	0	0	0	0	0	0
DOLEPHUS SP.	0	0	0	0	0	1	0	1	0
DOLEPHUS SP.	0	0	0	0	0	0	0	3	76
DOLEPHUS ISACANTHUS	0	0	0	0	0	0	0	0	4
TOTAL NUMBER OF INVERTEBRATES	166	85	40	75	25	30	145	56	367

FISHERIES SAMPLING COLLECTIONS
TOTAL NUMBER COLLECTED OVER ALL REPS FOR

SPECIES NAME	TRAWL OCTOBER 1983									
	T1	T2	T3	STATION T4	T5	T6	T7	T8	T9	
DASYATIS SABINA	0	0	0	0	0	1	0	0	0	19
GAMBUSA MICRURA	0	1	0	0	0	0	0	0	0	0
LEUCOSTEUS SPATULA	0	0	0	0	1	0	0	0	0	0
ANGUILLA MITCHELLI	2	8	0	8	0	0	0	0	0	0
SERRHUS FOETENS	0	0	1	0	0	0	0	0	1	1
APTODUS FELIS	3	3	1	6	1	0	0	0	1	1
RAPHAEL MARINUS	1	2	2	2	0	0	0	0	0	0
OGCARRUS BETA	0	0	0	0	0	0	5	2	3	3
OGCARRUS RADIATUS	0	0	0	0	4	1	0	0	0	1
METIPAS MARTINICA	0	0	1	0	0	0	0	0	0	0
LOPHOCAMPUS ERECTUS	0	0	0	0	0	0	0	1	0	0
SARMAATHEUS FLORIDAE	0	0	0	0	0	0	0	0	1	1
SARMAATHEUS LOUISIANAE	0	0	0	0	0	0	1	2	5	6
CENTROPOMUS STRIATA	0	1	0	0	1	0	2	5	6	6
PERICETUM FORMOSUM	0	0	0	0	1	0	1	0	1	1
CHILDRENCUMBERUS CHRYSURUS	0	0	2	1	1	0	0	0	0	0
TRACHINOTUS FALCATUS	0	1	0	6	0	0	0	0	0	0
EUCINOSTOMUS ARGENTEUS	1	0	0	0	0	0	1	0	0	0
EUPHYSTOMUS GULA	8	33	28	49	22	7	43	26	9	47
HALIMON AUROLINEATUS	0	0	0	0	2	0	17	0	0	0
HALIMON PLUMIERI	0	0	0	0	0	0	1	0	0	0
ORHOPETIGIS CHRYSOPTERA	1	0	1	4	2	8	9	15	2	73
CALAMUS ARCTIFRONS	0	0	0	0	0	0	0	0	0	13
LACERON PHOMBOIDES	1	5	4	0	2	0	7	68	73	73
PATRIELLA CHRYSOURA	8	56	26	15	9	1	10	2	2	13
CYRRETON ARENARIUS	3	14	3	0	0	0	0	0	0	0
CYRRETON NEBULOSUS	0	0	0	0	0	0	0	2	0	0
LEUCOMUS XANTHURUS	48	56	2	7	1	2	0	0	0	0
MELETICERHUS AMERICANUS	1	6	1	1	3	0	1	0	0	0
CHALOPETERRUS FABER	3	2	3	2	3	1	0	0	0	0
PIRORHUS SCITULUS	0	0	0	0	0	2	1	1	1	1
ETORHUS GROSSULUS	0	7	8	1	1	1	1	4	1	4
PATACHTHYS ALBIGUTTA	1	3	0	1	0	0	0	1	1	4
ACHTHYS LINEATUS	0	0	0	1	0	0	0	0	0	0
TRINOTUS MACULATUS	1	0	0	0	0	0	0	0	0	3
SERRHUS PLAGIOSA	0	0	3	1	0	0	0	1	0	3
MYDACANTHUS CILIATUS	1	0	0	0	2	0	8	6	2	20
MIDACANTHUS HISPIDUS	0	0	0	0	0	0	1	0	0	0
LACTOPHYPUS QUADRICORNIS	0	0	0	0	1	2	1	0	0	0
GLYPTOIDES NEPHELUS	0	1	0	0	0	0	0	0	0	0
CHLONOTERUS SCHOEFFI	0	1	0	0	1	0	0	1	2	2
TOTAL NUMBER OF FISH	83	201	86	105	59	26	111	140	193	
GOMELLA EMPUSIA	2	0	2	0	0	0	2	2	0	0
ETIOPHUS RUODRUM	18	11	12	26	9	3	64	16	39	
TRACHINOTUS SIMILIS	0	8	2	7	7	13	5	28	37	
PALAEON FLORIDANUS	1	0	0	0	0	0	0	0	0	
PALAEONETES INTERMEDIUS	2	1	0	0	0	0	0	0	0	
SERRHUS AMERICANUS	0	0	1	0	1	0	1	0	0	
PERICETES LONGICAUDATUS	0	0	0	0	0	0	2	0	0	
ALUTUS NORMANNI	0	0	1	0	0	0	0	1	0	

[illegible]

FISHERIES SAMPLING COLLECTIONS
TOTAL NUMBER COLLECTED OVER ALL REPS FOR
TRAWL

NOVEMBER 1983

SPECIES NAME	T1	T2	T3	T4	T5	T6	T7	T8	T9
DASYATIS SABINA	0	0	0	0	0	0	1	1	0
ANCHOA MITCHILLI	0	13	1	2	2	1	0	0	0
SYNOCHUS FOETENS	0	0	0	0	0	0	1	0	0
ARIUS FELIS	3	4	11	21	8	7	0	1	6
BAGRE MARINUS	0	0	3	0	0	0	0	0	0
OPSANUS BETA	0	0	0	0	0	0	1	0	0
OGCOCEPHALUS RADIATUS	0	0	1	2	1	0	0	0	0
CENTROPOMUS STRIATA	0	0	0	0	0	0	0	0	1
DIPLECTRUM FORMOSUM	0	0	0	0	0	1	0	0	1
SERRANUS ATRUBRANCHIUS	0	0	0	0	0	0	0	0	3
RYPTICUS MACULATUS	0	0	0	0	0	0	2	0	0
CHLOROSOMBRUS CHRYSURUS	0	0	0	0	0	0	0	0	0
EUCINOSTOMUS ARGENTEUS	0	0	0	1	0	0	0	0	0
EUCINOSTOMUS GULA	10	15	20	38	8	3	44	23	9
HAEMULON AUROLINEATUM	0	0	0	0	0	0	8	0	0
ORTHOPRISTIS CHRYSOPTERA	0	0	17	2	0	3	4	3	12
CALAMUS ARCTIFRONS	0	0	0	0	0	0	0	0	3
LAGODON RHOMBOIDES	3	1	12	0	1	0	11	10	21
BAIRDIELLA CHRYSOURA	26	52	21	15	2	2	14	15	0
LEIOSTOMUS XANTHURUS	14	42	12	7	0	1	0	0	0
METICIRRHUS AMERICANUS	0	0	1	0	1	0	0	0	0
CHAETODIPTERUS FABER	0	0	2	0	0	1	0	0	2
PRIONOTUS TRIBULUS	0	0	1	1	0	0	0	0	0
ANCYLOPSETTA QUADROCELLATA	0	0	0	0	0	0	1	0	0
ETROPUS CROSOTUS	4	5	2	0	1	1	0	1	0
PARALICHTHYS ALBIGUTTA	0	2	0	0	1	1	0	1	1
SYMPHURUS PLAGIOSA	0	5	4	1	3	0	0	0	0
MONACANTHUS CILIATUS	0	0	0	0	0	0	4	1	10
MONACANTHUS HISPIDUS	0	0	0	0	0	0	0	0	2
LACTOPHRYS QUADRICORNIS	0	0	0	0	0	0	3	0	0
TOTAL NUMBER OF FISH	60	139	109	92	29	21	99	59	71
SQUILLA EMPUSIA	2	7	0	1	0	0	0	0	0
PENAEUS DUORARUM	22	13	7	22	2	1	72	5	36
TRACHYPENAEUS SIMILIS	4	1	4	1	7	9	6	3	37
BALAEON FLORIDANUS	0	1	0	0	0	0	1	0	0
PERICLIMENES LONGICAUDATUS	0	0	0	0	0	0	2	0	0
HIPPOLYTE ZOSTERICOLA	0	0	0	0	0	0	1	0	0
TOZEUMA CAROLINENSE	0	0	0	0	0	0	1	0	4
PETROLISTHES ARMATUS	0	0	0	0	0	0	2	0	0
CALLINECTES SAPIDUS	2	0	2	2	0	2	0	3	2
PORTUNUS GIBBESI	0	2	2	1	4	0	17	1	1
NEOPANOPE TEXANA	0	0	0	0	0	0	34	7	3
METOPORHAPHIS CALCARATA	0	0	1	1	2	4	1	0	24
ECHINASTER SP.	0	0	0	0	0	0	1	0	0
TOTAL NUMBER OF INVERTEBRATES	30	24	16	28	15	16	137	19	107

FISHERIES SAMPLING COLLECTIONS
TOTAL BIOMASS (IN GRAMS) OVER ALL REPS FOR
TRAWL

JUNE 1983

SPECIES NAME	STATION								
	T1	T2	T3	T4	T5	T6	T7	T8	T9
GOMPHUS MICRURA	0.0	150.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
APRINUS MICHELLI	1.7	5.4	15.4	15.2	0.3	0.0	1.6	0.0	0.0
SARINUS FOETENS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	48.3
ARIDUS FELIS	71.5	0.0	182.2	144.9	152.2	285.5	99.3	338.5	0.0
OPHIOCHEILUS BETA	3.5	0.4	0.0	0.0	53.8	0.0	32.9	0.0	26.9
OPHIOCHEILUS RADIATUS	0.0	87.6	8.0	0.0	445.1	81.2	329.4	0.0	0.0
HEPTACHLORUS RECTUS	0.0	0.0	0.0	0.0	0.0	10.2	0.0	0.0	0.0
COCHLIDACTIS STRIATA	0.0	0.0	0.0	0.0	161.2	0.0	0.0	0.0	0.0
DIETECURUM BIVITTATUM	0.0	0.0	0.0	0.0	0.0	44.2	71.7	0.0	0.0
DIETECURUM FORNOSUM	0.0	0.0	0.0	0.0	0.0	0.0	368.8	37.2	420.7
HAEMODONTI PLUMIERI	0.0	0.0	0.0	0.0	0.0	0.0	38.9	49.4	29.2
ORTHOPTERIS CHRYSOPTERA	27.4	63.4	0.0	58.5	460.2	147.3	953.2	151.4	1147.1
CALAMUS ARCTIFRONS	0.0	0.0	0.0	0.0	0.0	0.0	172.9	75.9	355.7
OTHELPHUS HOLEROOKI	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	32.4
LAGIDON RHOMBOIDES	268.1	260.4	113.1	10.1	346.8	187.4	0.0	757.2	6941.0
GASTROSTELLA CHRYSOURA	270.0	437.7	134.5	10.4	0.0	0.0	595.7	34.9	655.7
CHRYSTOMUS ARENARIUS	12.1	5.1	1.1	149.0	85.5	0.0	0.0	0.0	0.9
HEPTACHLORUS XANTHURUS	2888.2	314.4	578.4	0.0	0.0	0.0	0.0	107.6	371.4
MELICHTHUS AMERICANUS	17.4	0.0	122.5	0.0	0.0	0.0	0.0	0.0	0.0
PERODONTUS SCITULUS	0.0	3.0	0.8	4.6	1.3	0.0	0.0	0.0	0.0
PERODONTUS TRIRULUS	0.0	0.0	23.4	0.0	60.8	0.0	0.0	0.0	0.0
PERODONTUS CROSOTUS	0.0	8.4	11.5	0.0	2.8	0.0	0.0	0.0	0.0
PARALICHTHYS ALBIGUTTA	41.8	15.1	34.2	0.0	34.3	26.6	17.1	51.4	238.1
UNIDENTIFIED EOTRID	0.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SOMMERUS FLAGIUSA	22.5	40.3	78.0	0.0	0.0	0.0	0.0	0.0	0.0
MORACANTHUS HISPIDUS	0.0	0.0	0.0	0.0	6.6	0.0	0.0	0.0	0.0
LACTIDIDUS QUADRICORNIS	0.0	0.0	0.0	0.0	185.2	180.5	544.7	0.0	506.8
SPERONEPHES NEPHELUS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.8
CHLOROMYCTERUS SCHOEPPF	0.0	0.0	0.0	0.0	0.0	0.0	427.1	0.0	271.6
TOTAL BIOMASS OF FISH	3624.2	1392.7	1303.1	392.7	1997.1	952.9	3653.3	1163.5	11067.8
GASTELLA IMPUSIA	0.0	0.0	5.4	11.7	1.6	0.0	0.0	0.0	0.0
TERNAUS DUORARUM	40.6	66.0	56.0	6.9	22.3	9.6	26.0	0.0	44.1
TRACHYPENAEUS SIMILIS	0.0	3.7	3.3	0.7	4.0	0.7	1.8	1.3	0.0
PALAEON FLORIDANUS	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PALAEON VULGARIS	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0
TOXOPTERUS CAROLINENSE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8
PELOPSIDUS ARMATUS	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.4	0.2
PELOPSIDUS SP.	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0
PACIFICUS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PACIFICUS GYMNOCTACTUS	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.0
PACIFICUS SP.	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CALYPTOPUS SAPIDUS	1133.6	82.4	0.0	98.7	0.0	0.0	247.7	0.0	120.7
PORTUNUS GIBBESI	0.0	11.9	12.9	13.8	19.7	0.0	2.4	0.4	0.0
PORTUNUS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0
NEOGAMPTI TEXANA	0.0	0.0	0.2	0.0	0.3	0.2	0.4	0.5	0.2
PARATHES HERBSTII	0.0	1.0	0.0	0.0	0.2	0.1	1.1	0.0	0.2
FLUTTERUS SAYI	0.0	0.0	0.0	0.0	0.0	0.0	1.5	0.5	1.4
FLUTTERUS DUBIA	0.0	1.3	2.2	0.0	0.6	7.0	7.0	0.0	0.0
MICROTAPHUS CALCARATA	0.0	0.0	0.0	0.0	0.4	0.0	2.2	0.4	0.0
LOBEYRUS BREVIS	0.0	2.7	1.0	1.5	0.0	0.0	0.0	0.0	0.0

MURKY COMUR
 UROGALFINX SP.
 ASTERIDAE

TOTAL BIOMASS OF INVERTEBRATES

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	0.0	7.1	0.0	0.0	0.0	17.8	5.9	4.4	0.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.8	15.7	520.4
1174.2	170.3	88.1	133.3	68.1	29.5	317.7	23.9	698.0		

SPECIES NAME	STATION								
	T1	T2	T3	T4	T5	T6	T7	T8	T9
DAGGALLS, SARINA	0.0	0.0	0.0	0.0	301.1	0.0	0.0	0.0	0.0
ALUCA PHTYSCHELOIDIS	0.0	0.0	0.0	0.0	0.3	1.2	0.0	0.0	0.0
APOROKA MITCHELLI	8.2	2.2	2.6	0.0	1.6	0.5	0.0	0.0	0.0
SYMBIUM EDETENS	0.0	48.7	0.0	0.0	0.0	0.0	0.0	66.7	0.0
APICUS FELIS	0.0	0.0	0.0	770.6	345.5	27.6	149.5	0.0	246.3
GAUDE MARTINUS	0.0	0.0	5.8	0.0	7.3	0.0	0.0	0.0	0.0
DEANUS BETA	85.1	75.9	1.1	0.0	0.0	0.0	21.5	0.0	0.0
ORACULINUS RADIATUS	0.0	25.0	0.0	23.4	189.5	0.0	458.1	0.0	0.0
HELEOMAPUS ERECTUS	0.0	5.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HIPPOMAPUS ZOSTERAE	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0
CENTROPERISTIS STRIATA	0.0	0.0	0.0	0.0	155.5	0.0	200.2	31.9	248.2
DELECTIPUM FORMOSUM	0.0	4.6	0.0	0.0	0.0	0.0	41.5	34.5	26.8
CHOROSCOMERUS CHRYSURUS	0.0	0.0	2.2	0.0	0.0	0.0	0.0	0.0	0.0
ELPHINOTOMUS ARGENTEUS	0.0	4.8	0.2	2.2	8.6	0.0	9.0	1.4	3.4
ELPHINOTOMUS GULA	55.6	15.2	13.0	3.5	13.4	2.8	1.3	0.0	1.7
PARABOLON PLUMIFERI	0.0	0.0	0.0	0.0	0.0	0.0	183.8	0.0	28.6
CHOROPHISTIS CHRYSOPTERA	102.9	175.2	22.8	18.4	30.0	15.5	366.0	325.5	921.3
CALAMUS ARCTIFRONS	0.0	0.0	0.0	0.0	0.0	0.0	92.1	0.0	265.5
DELEPHUS HOLBROOKI	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	99.4
LACERON RHOMBROIDES	291.6	526.8	17.9	0.0	2.8	5.2	76.2	15.9	5220.9
PATIDELLA CHRYSOURA	441.3	350.1	50.9	0.0	148.9	3.2	108.7	6.2	36.3
CANDERION ARENARIUS	11.9	1.2	1.8	0.0	0.2	0.0	0.0	0.0	0.0
CYNOSCION NEBULOSUS	0.0	5.8	0.9	0.0	0.0	0.0	0.0	0.0	0.3
LEUCOTOMUS XANTHURUS	2711.4	944.2	1005.9	0.0	32.4	108.2	33.1	185.2	100.1
MENICTERIUS AMERICANUS	12.8	0.0	0.0	0.0	0.0	91.5	0.0	0.0	0.0
CHALIDICTERRUS FABER	11.1	8.8	0.2	0.0	0.0	0.0	0.0	0.0	0.0
UNIDENTIFIED GOBY	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
PREMIUS SCITULUS	0.0	0.0	6.1	0.0	1.1	42.4	0.0	0.0	26.5
PREMIUS TRIBULUS	2.5	2.0	2.0	0.0	0.0	35.0	0.0	25.9	0.0
ANACLOPSETTA QUADROCELLATA	0.0	0.0	0.0	0.0	0.0	32.3	0.0	0.0	0.0
ETROPUS GROSSOTUS	6.4	4.7	38.8	3.4	5.9	5.8	0.0	20.9	3.7
PAPALICHTHUS ALBIGUTTA	108.9	115.1	28.6	7.7	36.9	24.1	0.0	0.0	32.5
UNIDENTIFIED BOTIID	4.3	16.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ACHTHUS LINEATUS	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	88.5
SAMBURUS PLAGIUSA	52.8	0.0	106.2	29.9	19.6	0.0	0.0	0.0	6.7
MORACANTHUS HISPIDUS	0.0	1.6	0.0	0.0	0.0	0.0	3.6	0.0	0.0
LACERONUS QUADRICORNIS	0.0	0.0	0.0	0.0	0.0	0.0	94.8	0.0	44.6
SPERMATODES NEPHELUS	30.5	0.0	0.0	0.0	37.2	0.0	0.0	0.0	22.0
CHILIDRACHTERUS SCHOEPPFI	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.9
TOTAL BIOMASS OF FISH	3937.3	2335.9	1307.1	859.6	1338.8	395.3	1839.5	714.1	7437.2
SOUTHERN EMPUSIA	0.0	3.2	6.7	13.2	1.4	11.3	4.9	0.0	1.0
PERMIUS DUORARUM	363.3	139.3	253.2	70.7	82.1	25.6	71.5	23.6	96.3
TRACHILINAEUS SIMILIS	0.0	0.6	4.1	0.0	3.1	3.9	0.5	2.6	16.1
PALAEOMYX FLORIDANUS	0.0	4.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PALAEOMYXIDES INTERMEDIUS	7.4	0.5	0.5	0.0	0.0	0.0	0.1	0.0	0.0
PALAEOMYXETES SP.	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0
PERICLIMENES LONGICAUDATUS	0.0	0.0	0.2	0.0	0.0	0.0	0.1	0.1	0.1
ALUTHERUS HETEROCHAELIS	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HETERODACTE PLEURACANTHUS	0.0	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0
TOXOPIURA CAROLINENSE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5

AMPHIPTER GYMETRICUS	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.2	0.0	0.2	0.1	0.1
PELOLITHES ARMATUS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1
PELOLITHES GALATHINUS	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
PAGURUS GYMNODACTUS	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PAGURUS LONGICARPUS	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
PAGURUS POLLICARIS	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
PAGURUS SP.	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HEPATIS EPHELITICUS	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
CALYPTOPUS SAPIDUS	65.4	358.5	70.4	149.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PODOPUS GIBBESII	2.9	5.3	59.7	42.9	12.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PODOPUS DEPRESSUS	1.1	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MELOMERE MERCENARIA	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
MELOMERE TEXANA	8.6	1.3	4.3	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PAGURUS HERBSTII	3.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PELOLITHES SAYI	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
LEPTHA DUBIA	0.0	0.1	3.4	2.1	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MELOMERE CALCARATA	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LOLIGORINA BREVIS	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
UROSAURUS SP.	0.0	0.0	13.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ASTEROIDEAE	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
TOTAL BIOMASS OF INVERTEBRATES	454.0	514.9	417.0	279.6	101.5	151.9	244.6	38.0	547.2	188.4	4.9	0.0	0.0

FISHERIES SAMPLING COLLECTIONS
TOTAL BIOMASS (IN GRAMS) OVER ALL REPS FOR
TRAWL

AUGUST 1983

	T1	T2	T3	STATION T4	T5	T6	T7	T8	T9
DALALIA SAPINA	57.5	0.0	0.0	0.0	326.5	51.9	0.0	0.0	0.0
GAMBURA MICRURA	0.0	291.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OPHIOSTOMEMA OGLINUM	0.0	0.0	5.5	0.0	0.0	0.0	0.0	0.0	0.0
ARACHA HETSEIUS	1.2	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PERIDIA MITCHELLI	2.6	51.4	16.1	4.7	6.3	0.0	0.0	0.0	2.0
APRUS FELIS	111.4	5.9	0.0	134.0	201.7	347.7	0.0	0.0	0.0
CAVARE MARINUS	21.7	28.1	5.8	37.6	3.7	0.0	0.0	0.0	0.0
OPHIOSTOMUS BETA	70.4	47.7	0.0	0.0	0.0	0.0	36.6	0.0	0.0
DEZOLETERALUS RADIATUS	0.0	91.4	0.0	0.0	45.9	13.1	64.5	0.0	0.0
SALICINATUS FLORIDAE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.3
SYMBIOTUS LOUISIANAE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5	0.0
CENTROSTOMUS SIRIATA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	55.5	177.9
DELETERIUM FORMOSUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.1
EPIDERMIS ARGENTEUS	48.2	91.1	317.5	0.9	13.5	7.8	36.6	18.5	6.0
EPIDERMIS GULA	21.4	45.1	9.3	7.2	106.8	145.5	21.2	25.4	21.4
HAEMAPHYS AUROLINEATUM	0.0	0.0	0.0	0.0	0.0	0.0	44.8	0.0	3.5
HAEMAPHYS PLUMIERI	0.0	0.0	0.0	0.0	0.0	0.0	82.2	0.0	0.0
OPHIOSTOMUS CHRYSOPTERA	145.3	75.9	127.7	0.0	34.1	19.0	111.9	374.9	655.5
CALANUS ARCTIFRONS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	138.3
DELETERIUM HOLBROOKI	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	35.1
LAGRION RHOMBOIDES	80.9	72.3	55.0	0.0	128.1	107.0	194.5	4196.5	4825.1
PARADISELLA CHRYSOURA	263.1	517.4	67.9	20.6	198.7	216.0	195.3	15.1	51.4
CYRIPIDION ARENARIUS	346.6	90.2	34.4	11.8	209.6	51.1	0.0	0.0	0.0
CYRIPIDION NEBULOSUS	5.2	0.0	0.0	0.0	0.0	0.0	18.5	5.5	35.3
LEPTOSTOMUS XANTHURUS	2038.5	3390.1	161.8	1588.6	463.4	644.3	0.0	0.0	0.0
MELETERIUS AMERICANUS	15.4	18.6	49.8	0.0	1.8	32.2	0.0	0.0	253.5
GOLETERIUS ROBUSTUM	4.1	21.1	6.8	0.8	25.4	52.9	0.0	0.0	0.0
PERIDIA SCITULUS	0.0	0.3	0.0	0.0	4.9	0.8	0.0	2.4	0.0
EPIDERMIS GROSSOTUS	15.6	46.7	94.3	0.0	2.8	15.5	0.0	0.0	0.0
PARALITHIUS ALBIGUTTA	97.6	78.5	115.8	0.0	165.0	151.2	0.0	3.0	0.0
TRILITHIUS MACULATUS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	82.8
SYMBIOTUS PLAGIUSA	75.0	36.3	35.6	0.0	0.0	0.0	3.7	7.5	19.5
MORIANATHUS GILLIATUS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	26.1
MORIANATHUS HISPIDUS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	92.5
MORIANATHUS QUADRICORNIS	0.0	0.0	0.0	0.0	447.0	0.0	0.0	0.0	0.0
STREPTOIDEUS NEPHELUS	0.0	0.0	19.4	0.0	0.0	0.0	25.7	0.0	0.0
CHILONCTERUS SCHOEPI	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	40.5
CHILONCTERUS DAMAGED	0.0	0.7	0.0	0.1	0.0	0.0	0.0	0.0	0.0
TOTAL BIOMASS OF FISH	3431.7	5001.3	1132.7	1906.3	2385.2	1868.0	835.5	4708.8	6493.8
GOLETERIUS EMPUSIA	17.3	13.2	24.6	0.0	0.0	16.8	7.3	0.0	0.0
PERIDIA DUORARUM	161.5	377.5	173.1	43.9	67.1	5.4	172.1	137.3	156.9
TRILITHIUS SIMILIS	0.4	1.6	1.8	0.0	0.0	7.2	0.1	4.0	6.9
PARALITHIUS FLORIDANUS	0.7	0.0	0.0	0.0	0.0	0.0	2.3	0.0	0.0
PALATOPHETES INTERMEDIUS	0.9	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PALATOPHETES VULGARIS	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.0
PERIDIA MINES LONGICAUDATUS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ALPHIUS HETEROCHELIS	0.3	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0
HOPEIMA CAROLINENSE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	13.6
PERIDIA SYMMETRICUS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1

Species	365.4	529.8	226.0	101.1	92.2	211.7	270.0	278.6	708.0
PELOPOLETHES ARMATUS	0.1	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.2
PACIFICUS GYMNOCTACTUS	0.0	0.3	0.0	0.0	0.1	0.0	0.0	0.0	0.0
PACIFICUS LONGICARPUS	0.1	0.0	0.0	0.0	0.1	1.1	0.0	0.0	0.0
PACIFICUS POLLICARPUS	0.0	0.0	0.0	0.0	1.3	3.6	0.0	0.0	0.0
PACIFICUS SP.	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0
PERIPATENA PUNCTATA	0.0	0.5	0.0	0.0	0.0	0.0	0.0	3.2	0.0
CALLICROTUS SAPIIDUS	183.8	131.6	0.0	57.0	0.0	0.0	26.2	0.0	0.0
POGONOMUS GIPRESI	0.0	3.3	12.7	0.0	3.1	11.2	0.0	22.2	0.0
ZACHETUS	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0
METHEPE MERCENARIA	0.0	0.0	0.0	0.0	0.0	152.0	0.0	0.1	6.4
NEOPACODE TEXANA	0.3	1.1	0.1	0.0	0.3	0.1	4.6	0.2	0.0
PACIFICUS HERBSTII	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.1	0.0
PICROMYDUS SAYI	0.0	0.0	0.0	0.0	0.0	0.0	9.9	0.0	0.0
LEPTELLA DUBIA	0.0	3.2	5.9	0.0	0.0	2.1	1.3	0.0	0.0
MB LONCHOPHIS CALCARATA	0.0	0.0	0.0	0.0	0.2	0.0	0.7	0.0	0.0
LOB LONCHOPHIS A BREVIS	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0
LOB LONCHOPHIS SP.	0.0	0.0	7.8	0.0	0.0	12.0	0.0	2.7	0.0
ECLEPHEREMATA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LUDSEA SP.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5
ECLEPHASTER SP.	0.0	0.0	0.0	0.0	0.0	0.0	39.1	106.3	708.0
TOTAL BIOMASS OF INVERTEBRATES	365.4	529.8	226.0	101.1	92.2	211.7	270.0	278.6	895.6

SPECIES NAME	SEPTEMBER 1983										
	T1	T2	T3	STATION T4			T5	T6	T7	T8	T9
DARVALL'S SABINA	372.4	329.2	96.4	447.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GAMBIRA MICKJIRA	325.6	259.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SARDINELLA AURITA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	29.2	0.0	0.0	0.0
ABRIDA MITCHELLI	10.4	26.0	3.2	29.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0
APLUS FELLIS	179.7	50.6	184.6	67.6	89.3	0.0	0.0	9.0	0.0	0.0	0.0
BALT MARINUS	60.3	154.3	42.8	14.5	17.8	0.0	0.0	0.0	0.0	0.0	0.0
DEGAPUS BETA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.2	0.0	0.0
BOGGETTIALUS RADIATUS	0.0	0.0	0.0	0.0	193.5	0.0	0.0	69.0	48.4	114.0	0.0
HIPPICAMUS FRECTUS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0
SUPERATHUS FLORIDAE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.8
SYNATHUS LOUISIANAE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	6.3	5.8	0.0
SYNATHUS SCOVELLI	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0
GEHOPPESTIS STRIATA	0.0	0.0	64.1	0.0	0.0	0.0	0.0	0.0	68.8	0.0	536.6
FAMILY GRAMMISTIDAE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	0.0	0.0
CHLOROSCOMBRUS CHRYSURUS	1.4	13.8	0.8	2.1	7.6	0.0	0.0	5.8	0.0	0.0	0.0
SELERE VOMER	0.0	0.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EURINOSTOMUS ARGENTEUS	27.1	2.7	1.8	48.2	0.0	0.0	0.0	0.0	35.7	0.0	5.7
EURINOSTOMUS GULA	65.8	253.1	133.5	367.9	327.9	157.8	139.7	190.6	77.9	0.0	77.9
HAPHOION AUROLINEATUM	0.0	0.0	0.0	0.4	0.0	0.0	66.1	60.4	2.5	0.0	0.0
OPHOPESTIS CHRYSOPTERA	195.7	79.2	165.6	0.0	478.1	41.9	272.4	277.6	0.0	0.0	895.6
CALLAMUS ARCTIFRONS	0.0	0.0	0.0	0.0	0.0	0.0	30.4	0.0	0.0	0.0	285.8
LACONIA PRIMEOIDES	21.5	160.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4065.3
BALINELLA CHRYSOURA	887.3	1018.4	241.5	141.8	412.2	196.6	57.4	107.9	78.4	112.2	440.1
CARACIN APENARIUS	430.9	325.1	216.7	1.4	694.9	250.0	0.0	0.0	0.0	0.0	0.0
CYRIGLION NEBULOSUS	524.4	159.5	0.0	31.8	0.0	0.0	1.5	75.4	0.0	0.0	108.7
LEUCOTOMUS XANTHURUS	2781.8	2502.0	2424.5	625.3	304.2	264.5	0.0	34.2	0.0	0.0	32.6
MENICLERIUS AMERICANUS	37.7	52.5	321.2	57.0	5.1	21.8	0.0	0.0	0.0	0.0	0.0
MICROGONIAS UNIPULATUS	151.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CHAEUDIPETERRUS FABER	8.9	41.1	21.7	1.8	42.2	0.0	0.0	0.0	0.0	0.0	0.0
PERIDIPUS SCITULUS	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	47.2
PERIDIPUS TRIRULUS	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PERIDIPUS GROSSOTUS	33.8	143.8	119.2	2.9	13.3	24.0	0.0	0.0	0.0	0.0	0.0
PAPALICHTHUS ALBIGUTTA	153.8	0.0	98.0	0.0	0.0	87.7	314.1	0.0	0.0	0.0	216.1
TEPECTES MACULATUS	0.0	0.0	17.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.0
GABRIELUS PLAGIUSA	44.9	27.7	187.5	8.0	11.8	2.9	0.0	0.0	0.0	0.0	0.0
AMPHICANTHUS CILIATUS	0.0	1.9	0.0	2.7	0.0	0.0	35.1	0.0	0.0	0.0	46.1
MORICANTHUS HISPIDUS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.8	0.0
LACONIAEUS QUADRICORNIS	0.0	0.0	0.0	0.0	225.1	0.0	734.1	0.0	0.0	0.0	0.0
LEUCOTOMUS SCHOEPPFI	0.0	0.0	0.0	0.0	0.0	0.0	484.9	11.0	0.0	0.0	155.4
TOTAL BIOMASS OF FISH	6315.2	5601.1	4342.3	1850.9	3173.2	1160.5	2397.6	998.9	6943.4		
SQUILLA EMPUSIA	5.0	18.0	1.2	7.6	0.0	19.7	0.0	12.1	0.0	0.0	0.0
PERIDIPUS PUORARUM	267.0	219.4	111.4	68.7	14.3	10.5	95.4	112.4	304.8		
TRACHYPINAEUS SIMILIS	0.3	0.2	0.3	1.1	1.2	2.4	0.0	1.9	2.8		
TRACHYPIN FLORIDANUS	0.0	1.7	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.0
PALAMONETES INTERMEDIUS	0.6	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PERIDIPINES AMERICANUS	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0
PERIDIPINES LONGICAUDATUS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ALPHIDUS HETEROCHELIS	0.0	0.0	0.0	0.0	0.0	0.0	14.7	0.0	0.0	0.0	0.0
ALPHIDUS NORMANNI	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0
PERIDIPIN ZOSTERICOLA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Species	611.7	282.7	192.5	77.4	31.3	51.6	133.1	152.1	709.0
TOZILUMA CAROLINENSE	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	5.4
PEPELOIDES ARMATUS	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.1	1.7
PAGURUS LONGICARPUS	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0
PAGURUS FOLLICARIS	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0
PAGURUS SP.	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0
CALLINectes SAPIDUS	172.3	40.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PORTUNUS GIBBSI	0.0	0.2	3.2	0.0	15.8	17.3	4.8	6.6	8.1
XANTHIDAE	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0
MESOPOTAMICUS MERCENARIA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEGALOPTERUS TEXANA	0.0	0.7	0.2	0.0	0.0	0.0	0.0	0.0	4.3
PHILIPPIUS SAYI	0.0	0.0	0.0	0.0	0.0	0.2	1.3	0.1	0.1
LEPTOHA DUBIA	0.0	1.6	6.3	0.0	0.0	0.0	14.0	2.8	2.9
MEGALOPTERUS CALCARATA	0.0	0.0	0.0	0.0	0.0	0.0	1.4	0.4	0.0
TOLEIGMUS BREVIS	0.0	0.0	69.4	0.0	0.0	0.1	0.0	0.0	0.0
MEGALOPTERUS CORONA	166.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MURRAYALPINK SP.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ECHINASTER SP.	0.0	0.0	0.0	0.0	0.0	0.7	0.0	3.8	0.0
OPHIURUS ISACANTHUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.8	379.3
TOTAL BIOMASS OF INVERTEBRATES	611.7	282.7	192.5	77.4	31.3	51.6	133.1	152.1	709.0

FISHERIES SAMPLING COLLECTIONS
TOTAL BIOMASS (IN GRAMS) OVER ALL REPS FOR
TRAWL

SPECIES NAME	OCTOBER 1983									
	T1	T2	T3	STATION T4		T5	T6	T7	T8	T9
DASYATTA SABINA	0.0	0.0	0.0	0.0	0.0	0.0	101.1	0.0	0.0	0.0
GOMPHUS MICROPS	0.0	250.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LEPTOCISTEUS SPATULA	0.0	0.0	0.0	0.0	2000.0	0.0	0.0	0.0	0.0	0.0
ANCHOA MITCHELLI	1.9	10.2	0.0	7.3	0.0	0.0	0.0	0.0	0.0	0.0
SYNGNATHUS FOETENS	0.0	0.0	109.2	0.0	0.0	0.0	0.0	0.0	0.0	60.0
APOLLON FELIS	21.3	57.2	9.5	59.1	8.2	0.0	0.0	0.0	0.0	17.2
PARUS MARINUS	31.2	30.0	20.0	13.8	0.0	0.0	0.0	0.0	0.0	0.0
OTHELPHALUS BETA	0.0	0.0	0.0	0.0	0.0	0.0	85.1	47.2	79.1	137.4
OTHELPHALUS RADIATUS	0.0	0.0	0.0	0.0	152.0	9.5	0.0	0.0	0.0	0.0
MEMBRAS MARTINICA	0.0	0.0	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HEPOTRACHUS FRECIUS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	0.0
SYNGNATHUS FLORIDAE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.1
SYNGNATHUS LOUISIANAE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.4	9.3	6.0
CYPRINOTRUS STRIATA	0.0	30.4	0.0	0.0	23.4	0.0	36.0	215.3	159.1	0.0
DIPLACIUM FORMOSUM	0.0	0.0	0.0	0.0	45.9	0.0	26.1	0.0	0.0	9.1
CHIROSCOMBUS CHRYSURUS	0.0	1.7	4.0	1.1	1.5	0.0	0.0	0.0	2.3	2.3
TRACHINOTUS FALCATUS	0.0	25.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TRACHINOTUS ARGENTEUS	0.8	0.0	0.0	27.0	1.1	0.0	1.6	0.0	0.0	0.0
EUPHROSOMUS GULA	70.8	300.4	268.5	534.9	198.9	86.9	309.4	279.4	77.6	0.0
PARALICHTHES AULOLINEATUS	0.0	0.0	0.0	0.0	5.5	0.0	89.8	0.0	0.0	0.0
PARALICHTHES PLUMIERI	0.0	0.0	0.0	0.0	0.0	0.0	13.6	0.0	0.0	0.0
OPLOPORUS CHRYSOPTERA	133.3	0.0	37.2	155.3	130.4	245.4	322.7	302.0	980.1	0.0
CALAMPUS ARCTIFRONS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	37.4	0.0
LACUNA PROMBOIDES	20.1	125.0	78.8	0.0	85.4	0.0	69.5	1979.9	1525.8	0.0
PARALICHTHES CHRYSOURA	113.6	594.2	461.6	238.0	115.6	51.5	138.3	21.1	273.8	0.0
CARDINOTUS ARENARIUS	66.4	572.6	49.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CARDINOTUS NEBULOSUS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	52.6	0.0
LEPTOTRACHUS XANTHORUS	1171.5	2256.1	116.3	399.2	47.8	90.2	54.1	71.0	0.0	0.0
MALACOTRACHUS AMERICANUS	10.6	50.4	13.5	15.7	52.5	0.0	0.0	0.0	0.0	0.0
CHALOTRACHUS FABER	16.7	74.1	19.2	129.8	43.3	29.8	16.8	0.0	0.0	0.0
PRISTIGRUS SCITULUS	0.0	0.0	0.0	0.0	0.0	47.2	0.0	47.1	38.5	0.0
ELIOTRUS CROSSOTUS	0.0	47.8	68.3	12.2	3.0	12.0	1.9	22.0	8.0	0.0
PARALICHTHES ALBIGUTTA	27.5	175.3	0.0	56.7	0.0	0.0	0.0	8.6	23.0	0.0
ACTINURUS LINEATUS	0.0	0.0	0.0	8.8	0.0	0.0	0.0	0.0	0.0	0.0
TRACHINOTUS MACULATUS	4.4	0.0	0.0	0.0	0.0	0.0	0.0	10.7	87.1	0.0
SYNGNATHUS PLAGIOSA	0.0	0.0	38.3	17.2	0.0	0.0	11.1	0.0	34.7	0.0
SYNGNATHUS CILIATUS	3.0	0.0	0.0	0.0	2.8	0.0	20.8	19.8	67.1	0.0
SYNGNATHUS HISPIDUS	0.0	0.0	0.0	0.0	0.0	0.0	5.6	0.0	0.0	0.0
MORACANTHUS QUADRICORNIS	0.0	0.0	0.0	0.0	175.6	241.9	137.5	0.0	0.0	0.0
LACUNA NIPHILUS	0.0	93.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CHALOTRACHUS SCHOEPI	0.0	471.9	0.0	0.0	172.8	0.0	0.0	19.8	42.0	0.0
TOTAL BIOMASS OF FISH	1693.1	5166.4	1298.2	1696.1	3265.7	915.5	1346.3	3111.1	3669.4	0.0
SYNGNATHUS EMPUSIA	14.9	0.0	3.3	0.0	0.0	0.0	3.5	3.5	0.0	0.0
SYNGNATHUS DORABUS	77.0	80.0	58.7	39.3	29.7	10.8	150.2	120.8	111.7	0.0
SYNGNATHUS SIMILIS	0.0	2.1	0.2	2.2	1.1	3.7	0.8	9.2	15.0	0.0
PARALICHTHES FLORIDANUS	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PARALICHTHES INTERMEDIUS	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PARALICHTHES AMERICANUS	0.0	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0
PARALICHTHES LONGICAUDATUS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ACTINURUS NORMANNI	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.4	0.0	0.0

	353.7	147.8	106.5	134.9	34.8	33.0	169.2	237.9	491.9
HIPPOLYTE ZOSTERICOLA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HIPPOLYSMATA WUDEMANNI	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0
HEBR DOEKINGI	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0
AMPHIOXUS SYMMETRICUS	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.2	0.0
PETROLISCHES ARMATUS	0.0	0.0	0.2	0.0	0.0	0.1	0.3	0.0	0.0
PETROLISCHES GALATHINUS	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0
PAGURUS GYMNODACTYLUS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PAGURUS POLLICARIS	0.0	0.0	0.0	0.0	0.0	0.3	0.0	6.4	1.5
PANORHODIA PUNCTATA	0.0	0.0	0.0	0.0	0.0	3.7	0.0	0.0	0.0
CALLINectes SAPIDUS	261.4	61.1	5.4	61.9	0.0	0.0	0.0	0.0	0.0
FORUMUS GIBBESI	0.0	3.5	8.7	0.3	3.0	13.6	7.8	22.2	11.1
METHEPE MERCENARIA	0.0	0.0	0.0	30.0	0.0	0.0	0.0	14.7	0.4
NEOPAGURUS TEXANA	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.1
FLUMINIS SAYI	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
LIPIDIA PUBIA	0.0	0.0	25.5	1.2	0.0	0.0	2.5	7.3	0.0
MEGALOPHAPHIS CALCARATA	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.3	0.0
FOULIARICULA BREVIS	0.0	0.6	0.0	0.0	0.0	0.4	2.8	0.0	0.0
BOULGARINUS SP.	0.0	0.0	4.3	0.0	0.6	0.0	0.0	0.0	0.0
PHILINASTER SP.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	52.9	351.7
TOTAL BIOMASS OF INVERTEBRATES	353.7	147.8	106.5	134.9	34.8	33.0	169.2	237.9	491.9

FISHERIES SAMPLING COLLECTIONS
TOTAL BIOMASS (IN GRAMS) OVER ALL REPS FOR
TRAWL

SPECIES NAME	NOVEMBER 1983									
	STATION									
	T1	T2	T3	T4	T5	T6	T7	T8	T9	
DASYATIS SABINA	0.0	0.0	0.0	0.0	0.0	0.0	1000.0	1000.0	0.0	0.0
ANCHOA MITCHELLI	0.0	15.1	1.3	1.4	0.8	0.7	0.0	0.0	0.0	0.0
SYNODUS FOETENS	0.0	0.0	0.0	0.0	0.0	0.0	60.8	0.0	0.0	0.0
ARIUS FELIS	19.7	25.5	69.9	117.6	45.4	37.3	0.0	37.8	39.4	0.0
BAGRE MARINUS	0.0	0.0	39.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OPSANUS BETA	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0
OGCOEPHALUS RADIATUS	0.0	0.0	4.3	181.5	14.7	0.0	0.0	0.0	0.0	0.0
CENTROPOMUS STRIATA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DIPLECTRUM FORMOSUM	0.0	0.0	0.0	0.0	0.0	43.1	0.0	0.0	52.5	0.0
SERRANUS ATROBRANCHIUS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	31.6	0.0
RYPTICUS MACULATUS	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0	7.2	0.0
CHLOROSCOMBRUS CHRYSURUS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EUCINOSTOMUS ARGENTEUS	0.0	0.0	14.0	23.4	1.5	0.0	0.0	0.0	0.0	0.0
EUCINOSTOMUS GULA	159.4	168.2	232.9	468.3	80.2	26.8	252.0	251.7	84.0	0.0
HAEMULON AUROLINEATUM	0.0	0.0	0.0	0.0	0.0	0.0	51.7	0.0	0.0	0.0
ORTHOPRISTIS CHRYSOPTERA	0.0	0.0	314.1	62.7	0.0	77.7	94.7	38.8	188.6	0.0
CALAMUS ARCTIFRONS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	229.2	0.0
LAGODON RHOMBOIDES	83.0	22.0	236.5	0.0	0.0	0.0	0.0	0.0	320.8	0.0
BAIRDIELLA CHRYSOURA	441.1	677.5	333.1	245.4	29.6	0.0	228.4	189.3	0.0	0.0
LEIOSTOMUS XANTHURUS	408.5	1499.8	462.3	271.2	33.7	43.3	218.0	224.4	0.0	0.0
METICIRRHUS AMERICANUS	0.0	0.0	27.0	0.0	0.0	47.0	0.0	0.0	0.0	0.0
CHAETODIPTERUS FABER	0.0	0.0	12.8	0.0	17.3	0.0	0.0	0.0	0.0	0.0
TRINOTUS TRIBULUS	0.0	0.0	73.8	7.4	0.0	8.0	0.0	0.0	35.6	0.0
ANCYLOPSETTA QUADROCELLATA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ETROPUS CROSSOTUS	49.2	42.0	33.5	0.0	3.6	1.4	0.0	5.9	0.0	0.0
PARALICHTHYS ALBIGUTTA	0.0	118.4	0.0	0.0	23.4	54.3	0.0	31.2	5.2	0.0
SYMPHURUS PLAGIOSA	0.0	55.9	74.2	2.6	48.2	0.0	0.0	0.0	0.0	0.0
MONACANTHUS GILIATUS	0.0	0.0	0.0	0.0	0.0	0.0	8.2	4.1	28.7	0.0
MONACANTHUS HISPIDUS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	0.0
LACTOPHRYS QUADRICORNIS	0.0	0.0	0.0	0.0	0.0	0.0	282.5	0.0	0.0	0.0
TOTAL BIOMASS OF FISH	1165.9	2624.4	1928.9	1383.9	298.4	339.6	2290.9	1783.2	1025.9	
SQUILLA EMPUSIA	5.1	36.5	0.0	4.8	0.0	0.0	0.0	0.0	0.0	0.0
PENAEUS DUORARUM	157.5	111.8	73.9	60.7	8.7	3.0	213.0	27.3	113.0	0.0
TRACHYPENAEUS SIMILIS	0.9	0.2	0.8	0.2	3.0	4.0	0.6	1.1	13.6	0.0
BALAEON FLORIDANUS	0.0	0.5	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0
PERICLIMENES LONGICAUDATUS	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0
HIPPOLYTE ZOSTERICOLA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOZEUMA CAROLINENSE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PETROLISTHES ARMATUS	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.3	0.0
CALLINectes SAPIDUS	9.3	0.0	349.2	41.4	0.0	0.0	0.2	0.0	0.0	0.0
PORTUNUS GIBBESI	0.0	0.5	0.6	0.5	13.0	7.3	0.0	18.2	3.4	0.0
NEOPANOPE TEXANA	0.0	0.0	0.0	0.0	0.0	0.0	2.1	0.1	0.1	0.0
METOPORAPHIS CALCARATA	0.0	0.0	0.2	0.2	0.9	0.9	7.7	0.8	0.7	0.0
ECHINASTER SP.	0.0	0.0	0.0	0.0	0.0	0.0	1.8	0.0	216.0	0.0
TOTAL BIOMASS OF INVERTEBRATES	172.8	149.5	424.7	107.8	25.6	15.2	226.3	47.5	347.1	

FISHERIES SAMPLING COLLECTIONS
TOTAL NUMBER COLLECTED OVER ALL REPS FOR
SETNE

JUNE 1983
STATION

SPECIES
NAME

	S1	S2	S3	S4
ALUCA CHRYSOCHORIS	0	0	0	3
APLOMA DEPSETUS	0	0	0	225
APLOMA MITCHELLI	0	2	0	52
CAHOBUS FOETENS	0	0	1	0
HEPOMIDAEUS UNIFASCIATUS	0	0	1	3
STOMATOXURA MARTINA	0	0	3	16
MIDAEAS MARTINICA	0	0	49	271
MIDAEAS GERVILLINA	89	0	121	420
EUPHROSINOMES ARGENTEUS	0	7	8	32
LATHROPIDOMBOIDES	0	1	0	29
PARADOELLA CHRYSOURA	1	0	0	0
EUPHROSINOMES XANTHURUS	0	0	0	2
MOELLERIDAEUS	1	0	0	3
CHILIDACTYLUS SCHOEPFII	2	0	0	0
TOTAL NUMBER OF FISH	93	10	183	1056
DALACMON FLORIDANUS	0	0	1	0
PETROLISCHES ARMATUS	0	0	1	0
CALIBRECHES SAPHIDUS	0	0	0	1
EUPHROSINOMES DEPRESSUS	0	0	1	0
TOTAL NUMBER OF INVERTEBRATES	0	0	3	1

FISHERIES SAMPLING COLLECTIONS
TOTAL NUMBER COLLECTED OVER ALL REPS FOR

SEINE

JULY 1983

SPECIES
NAME

	S1	S2	S3	S4
DELSCHINEMA OGLINUM	0	18	0	0
ALOGA CHYPSOCHLORIS	29	1	8	0
AMBLYA HEPSSETUS	0	85	4	1
AMBLYA MITCHILLI	0	94	41	0
SEROPHORA MARINA	1	0	0	2
STENOSOTURA NOTATA	0	0	0	41
MEMPHAS MARTINICA	1	66	33	208
MEMPHAS BERYLLINA	4	0	2	381
DELSCHLITES SAURUS	0	3	4	0
IPACHTHURUS FALCATUS	15	0	1	1
EUTROSTOMUS ARGENTEUS	0	4	0	7
LACHON RHOMBIDES	12	0	0	11
MELI CEPHALUS	0	0	1	5
TOTAL GREYER OF FISH	62	271	94	657

FISHERIES SAMPLING COLLECTIONS
TOTAL NUMBER COLLECTED OVER ALL REPS FOR

AUGUST 1983
SEINE

SPECIES NAME	S1	S2	S3	S4
HARTIGERIA JAGUANA	2	0	0	0
DEPHELODONTOMA OGLINUM	1	0	0	0
AL. LIMPSETUS	276	0	0	0
APRAB. MITCHELLI	59	2	1	0
GUTHRIE'S STROMOSUS	0	0	4	0
BOHNSHAMPUS UNIFASCIATUS	0	0	9	0
STROMOSYLLURA MARINA	5	0	0	2
STROMOSYLLURA NOTATA	0	5	1	14
MELIPAS MARTINICA	8	0	0	0
MELIPAS BERYLLINA	19	0	0	0
DELOPHITES SAURUS	8	1	12	1
TRACHYDONTOMUS FALCATUS	21	0	12	5
TRACHYDONTOMUS ARGENTEUS	1	1	23	26
TRACHYDONTOMUS GULA	0	0	0	10
LEPTODONTOMUS RHOMBOIDES	2	0	0	7
LEPTODONTOMUS XANTHURUS	0	0	0	1
MUGIL. CEPHALUS	17	1	0	0
GUTHRIE'S ROSCI	0	1	0	0
STROMOSYLLURA NEPHELUS	0	0	1	0
TOTAL NUMBER OF FISH	419	11	63	66
PELAGIC FAUNARUM	0	0	1	0
PALATIMNETES INTERMEDIUS	0	0	0	1
PELOPSISTHES ARMATUS	0	0	3	0
CALLIMECTES SAPIOUS	0	0	0	1
EUP. LAUDATUS DEPRESSUS	0	1	1	0
NEPHROPS TEXANA	0	0	4	0
NEPHROPS HERBSTII	0	0	1	0
TOTAL NUMBER OF INVERTEBRATES	0	1	10	2

FISHERIES SAMPLING COLLECTIONS
TOTAL NUMBER COLLECTED OVER ALL REPS FOR

SEINE
SEPTEMBER 1983

SPECIES NAME	S1	S2	S3	S4
AMPHIA HERPSETUS	1	0	1	0
AMPHIA MITCHELLI	10	1456	190	0
COCCIDIOX STRUMOSUS	0	0	1	0
STENOGASTRA NOTATA	0	2	3	9
FUNDULUS GRANDIS	0	0	0	6
MEMBRAS MARTINICA	1	0	17	0
MINIDIA PERYLLINA	2	0	0	165
SARGENTODUS SCOVELLI	0	0	0	1
DIPODIOTES SAURIUS	0	0	4	3
TRACHINOTUS FALCATUS	2	0	0	0
EUTRICHOTOMUS ARGENTEUS	0	11	39	25
EUTRICHOTOMUS GUIA	1	0	6	45
LAGURUS RHOMBOIDES	3	0	0	14
MUGIL CEPHALUS	0	0	24	0
CHASMODON SUBURRAE	0	0	0	1
CHLOROSOMA BOSCI	0	0	1	0
CHLOROMYCTERUS SCHOEPPFI	2	0	0	0
TOTAL NUMBER OF FISH	22	1469	286	230
PAGRUS LONGICARPUS	1	0	0	0
TOTAL NUMBER OF INVERTEBRATES	1	0	0	0

FISHERIES SAMPLING COLLECTIONS
TOTAL NUMBER COLLECTED OVER ALL REPS FOR

OCTOBER 1983
SEINE STATION

SPECIES NAME	OCTOBER 1983 SEINE STATION			
	S1	S2	S3	S4
AMBLOA HEPSETUS	0	1	101	0
AMBLOA MITCHELLI	0	0	244	14
ARCTUS FELIS	0	0	1	0
OPLOCEPHALUS RADIATUS	1	0	0	0
HECTOGHARUS UNIFASCIATUS	5	0	0	0
STREPTOCEPHALUS MARINA	2	0	0	2
STREPTOCEPHALUS NOTATA	0	0	0	20
MESSEAC MARTINICA	72	0	2	0
EURYSTOMUS ARGENTUS	1	5	0	18
EURYSTOMUS GULA	4	0	0	16
LACONIA RHOMBOLDES	0	0	0	6
MULLUS CEPHALUS	2	1	0	58
TOTAL NUMBER OF FISH	87	7	348	134
CACTIPETES SAPIDUS	1	0	2	0
TOTAL NUMBER OF INVERTEBRATES	1	0	2	0

FISHERIES SAMPLING COLLECTIONS
TOTAL NUMBER COLLECTED OVER ALL REPS FOR

SEINE

NOVEMBER 1983

STATION

S1 S2 S3 S4

SPECIES
NAME

ANCHOA MITCHILLI
OGCOCEPHALUS RADIATUS
STRONGYLURA NOTATA
LUCANIA PARVA
SYNGNATHUS LOUISIANAE
EUCINOSTOMUS ARGENTEUS
EUCINOSTOMUS GULA
LAGODON RHOMBOIDES
LEIOSTOMUS XANTHUS
MUGIL CEPHALUS

TOTAL NUMBER OF FISH

CALLINECTES SAPIDUS

TOTAL NUMBER OF INVERTEBRATES

S1	S2	S3	S4
0	1	0	0
2	0	1	0
0	0	0	1
0	0	0	1
1	0	0	0
0	7	1	3
1	0	0	36
4	0	0	19
0	0	0	2
0	1	27	0
8	9	29	62
0	0	0	3
0	0	0	3

FISHERIES SAMPLING COLLECTIONS
TOTAL BIOMASS (IN GRAMS) OVER ALL REPS FOR

JUNE 1983
SEINE

SPECIES NAME	T1	T2	T3	T4
ALOGA CHRYSOCHLORIS	0.0	0.0	0.0	1.4
ALOGA HEPSETUS	0.0	0.0	0.0	162.3
ALOGA MITCHELLI	0.0	0.1	0.0	14.5
STREPTOCEPHALUS	0.0	0.0	2.1	0.0
STREPTOCEPHALUS TOETENS	0.0	0.0	0.9	7.7
STREPTOCEPHALUS UNIFASCICATUS	0.0	0.0	56.1	84.8
STREPTOCEPHALUS MARTINICA	0.0	0.0	46.7	1597.9
MELANIA BERYLLINA	68.3	0.0	94.6	410.5
FLUCTUOSTOMUS ARGENTEUS	0.0	0.4	0.2	234.3
LACINIA PHOMBOIDES	0.0	2.7	0.0	366.8
LABIDELLA CHRYSOURA	0.3	0.0	0.0	0.0
LEPTOCEPHALUS XANTHURUS	0.0	0.0	0.0	70.9
MELIA CEPHALUS	0.2	0.0	0.0	168.0
CHLOROMETERUS SCHOEPII	462.1	0.0	0.0	0.0
TOTAL BIOMASS OF FISH	530.9	3.2	200.6	3119.1
SALICIN FLORIDANUS	0.0	0.0	0.1	0.0
CEPHALOTES ARMATUS	0.0	0.0	0.3	0.0
CEPHALOTES SAPIDUS	0.0	0.0	0.0	144.5
EURYCEPHALUS DEPRESSUS	0.0	0.0	0.2	0.0
TOTAL BIOMASS OF INVERTEBRATES	0.0	0.0	0.6	144.5

FISHERIES SAMPLING COLLECTIONS
TOTAL BIOMASS (IN GRAMS) OVER ALL REPS FOR

SEINE

JULY 1983

SPECIES
NAME

	T1	T2	T3	T4
DIETETONEMA OGILINUM	0.0	1.1	0.0	0.0
ALPHEA CHRYSOCHLORIS	6.3	0.2	2.6	0.0
ALPHEA HEPSETUS	0.0	3.3	1.9	0.5
ALPHEA MITCHELLI	0.0	4.6	15.0	0.0
STOMATOPODEA MARINA	17.0	0.0	0.0	21.6
STOMATOPODEA NOTATA	0.0	0.0	0.0	147.5
MENTHA MARTINICA	0.9	95.1	42.8	908.6
MENTHA DERYLLINA	4.7	0.0	0.2	626.5
DIETETONEMA SAURUS	0.0	3.6	3.5	0.0
TRACHINOTUS FALCATUS	39.1	0.0	1.0	0.8
EUPELIONOTUS ARGENTEUS	0.0	0.2	0.0	55.1
LAPIDIN RHOMBODES	148.3	0.0	0.0	82.9
MENTHA CEPHALUS	0.0	0.0	351.6	414.3
TOTAL BIOMASS OF FISH	216.3	108.1	408.6	2257.8

FISHERIES SAMPLING COLLECTIONS
TOTAL BIOMASS (IN GRAMS) OVER ALL REPS FOR
SEINE

SPECIES	AUGUST 1983			
	T1	T2	T3	T4
HAFFERBIA JAGUANA	1.2	0.0	0.0	0.0
NEPHELEMA OGLINUM	0.8	0.0	0.0	0.0
AMPHIA HIPSETUS	72.1	0.0	0.0	0.0
AMPHIA MITCHELLI	19.0	0.3	0.2	0.0
GREYBY STRUMOSUS	0.0	0.0	1.5	0.0
HEPHEMUS UNIFASCIATUS	0.0	0.0	173.5	0.0
LEPOTHEURA MARINA	139.2	0.0	0.0	27.0
LEPOTHEURA NOTATA	0.0	42.4	1.3	56.6
MEPHEUS MARTINICA	18.6	0.0	0.0	0.0
MEPHEUS BERYLLINA	41.9	0.0	0.0	0.0
DEPHEUS SAURUS	14.7	2.4	25.8	1.4
TRACHOTUS FALCATUS	186.0	0.0	9.4	6.0
TRACHOTUS ARGENTEUS	0.3	6.9	4.9	67.6
TRACHOTUS GULA	0.0	0.0	0.0	33.3
LAGONIA RHOMBOIDES	133.1	0.0	0.0	58.5
LEPOTHEURA XANTHURUS	0.0	0.0	0.0	7.4
MEPHEUS CEPHALUS	141.8	133.8	0.0	0.0
NEPHELEMA BOSCI	0.0	0.2	0.0	0.0
NEPHELEMA NEPHELUS	0.0	0.0	6.6	0.0
TOTAL BIOMASS OF FISH	768.7	186.0	223.2	257.8
PERLAUS DUORARUM	0.0	0.0	1.5	0.0
PERLAUS INTERMEDIUS	0.0	0.0	0.0	0.1
PERLAUS ARMATUS	0.0	0.0	0.3	0.0
CALLIPRISTES SAPIIDUS	0.0	0.0	0.0	227.4
PERLAUS DEPRESSUS	0.0	0.4	0.2	0.0
NEPHELEMA TEXANA	0.0	0.0	1.3	0.0
PERLAUS HERBSTII	0.0	0.0	0.9	0.0
TOTAL BIOMASS OF INVERTEBRATES	0.0	0.4	4.2	227.5

FISHERIES SAMPLING COLLECTIONS
TOTAL BIOMASS (IN GRAMS) OVER ALL REPS FOR

SEINE
SEPTEMBER 1983

STATION
T2

T1

T3

T4

SPECIES
NAME

ANCHOA MITSCHKEI
ANCHOA MITSCHKEI
GOMPHIDIA STRUMOSUS
STENOBELURA NOTATA
FURCULUS GRANDIS
MELIPAN MARTINICA
MELIPAN PERVILLINA
SCOPOLIUS SCOVELLI
SCOPOLIUS SAURUS
TRACHINOTUS FALCATUS
FURCULUS ARGENTEUS
FURCULUS GULA
LACHNUS DIOMBOIDES
MELIPAN CYPHALUS
CHALMUS SUBURRAE
GOMPHIDIA BOSCI
CHALMUS SCHOEPI

TOTAL BIOMASS OF FISH

FACIUS LONGICARPUS

TOTAL BIOMASS OF INVERTEBRATES

2.6	0.0	0.3	0.0
0.6	133.3	16.6	0.0
0.0	0.0	0.5	0.0
0.0	12.2	106.9	50.8
0.0	0.0	0.0	0.9
3.3	0.0	56.3	0.0
3.0	0.0	0.0	343.5
0.0	0.0	0.0	0.1
0.0	0.0	20.9	2.5
15.4	0.0	0.0	0.0
0.0	2.4	12.6	30.3
2.0	0.0	29.9	93.2
89.7	0.0	0.0	109.2
0.0	0.0	543.3	0.0
0.0	0.0	0.0	0.2
0.0	0.0	0.3	0.0
1200.0	0.0	0.0	0.0
1316.6	147.9	787.6	630.7
0.3	0.0	0.0	0.0
0.3	0.0	0.0	0.0

FISHERIES SAMPLING COLLECTIONS
TOTAL BIOMASS (IN GRAMS) OVER ALL REPS FOR

OCTOBER 1983

SEINE

STATION

T1 T2 T3 T4

SPECIES
NAME

APLURA HEPSETUS	0.0	0.1	5.1	0.0
APLURA MITCHELLI	0.0	0.0	9.7	5.9
APLURA FELIS	0.0	0.0	46.0	0.0
OPICHELTHALUS RADIATUS	40.0	0.0	0.0	0.0
HEPOTOMUS UNIFASCIATUS	104.8	0.0	0.0	0.0
SYNCHLURA MARINA	32.7	0.0	0.0	65.0
SYNCHLURA NOTATA	0.0	0.0	0.0	216.6
HEPOTOMUS MARTINICA	306.0	0.0	8.2	0.0
FUR LINGSTOMUS ARGENTEUS	0.5	0.4	0.0	87.3
FUR LINGSTOMUS GULA	26.8	0.0	0.0	49.2
LACONIN RHOMBODES	0.0	0.0	0.0	57.6
HEPOTOMUS	36.6	0.1	0.0	6.2
TOTAL BIOMASS OF FISH	547.4	0.6	69.0	487.8

CAL THEFTES SAPIDUS

0.0

166.4

0.0

TOTAL BIOMASS OF INVERTEBRATES

0.0

166.4

0.0

FISHERIES SAMPLING COLLECTIONS
TOTAL BIOMASS (IN GRAMS) OVER ALL REPS FOR
SEINE

NOVEMBER 1983
STATION

SPECIES
NAME

	T1	T2	T3	T4
ANCHOA MITCHILLI	0.0	0.3	0.0	0.0
OGCOCEPHALUS RADIATUS	216.6	0.0	93.9	0.0
STRONGYLURA NOTATA	0.0	0.0	0.0	5.8
LUCANIA PARVA	0.0	0.0	0.0	0.7
SYNGNATHUS LOUISIANAE	0.6	0.0	0.0	0.0
EUCINDOSTOMUS ARGENTEUS	0.0	1.1	0.9	5.6
EUCINDOSTOMUS GULA	7.3	0.0	0.0	125.3
LAGODON RHOMBOLDES	105.5	0.0	0.0	223.3
LEIOSTOMUS XANTHURUS	0.0	0.0	0.0	19.2
MUGIL CEPHALUS	0.0	0.3	1469.0	0.0
TOTAL BIOMASS OF FISH	330.0	1.7	1563.8	379.9
CALLINECTES SAPIDUS	0.0	0.0	0.0	11.5
TOTAL BIOMASS OF INVERTEBRATES	0.0	0.0	0.0	11.5

FISHERIES SAMPLING COLLECTIONS
TOTAL NUMBER COLLECTED OVER ALL REPS FOR
CREEK TRAWL
JULY 1983

SPECIES NAME	TC1	TC2	TC3	TC4
DESAIRIA BELTA	2	0	0	0
SPERDARIUS SCOVELLI	0	0	4	0
CHIROSCOMBUS CHRYSURUS	0	1	0	0
TERTRYSOMUS ARGENTEUS	61	149	133	44
TERTRYSOMUS GULA	1	1	1	0
CHIROPTERUS CHRYSOPTERA	0	1	2	0
LABRUM RHOMBROIDES	12	4	14	0
LABRUM CHRYSOURA	0	3	0	0
CHIROPTERUS NEBULOSUS	2	0	0	0
CHIROPTERUS AMERICANUS	0	0	0	1
CHIROPTERUS FAGER	0	3	0	0
CHIROPTERUS SUBURRAE	2	0	0	0
CHIROPTERUS GULOSUS	1	0	0	0
CHIROPTERUS ALBIGUTTA	2	0	0	0
TOTAL NUMBER OF FISH	83	172	154	45
PERCAUS DUORARUM	6	0	0	0
PERCAUS SIMILIS	0	0	0	1
PALAEONETES INTERMEDIUS	73	1	1	39
PALAEONETES PUGIO	0	0	0	2
PALAEONETES GYMNOCTACTUS	4	0	0	0
CALLIBOTES SAPIOUS	0	0	2	0
NEOPARUS TEXANA	32	0	0	8
LEPITHA DUBIA	1	0	0	0
MELOMENA CORONA	1	0	1	0
TOTAL NUMBER OF INVERTEBRATES	117	1	4	50

FISHERIES SAMPLING COLLECTIONS
TOTAL NUMBER COLLECTED OVER ALL REPS FOR

CREEK TRAWL
AUGUST 1983

SPECIES NAME	TC1	TC2	TC3	TC4
DASYATIS SABINA	0	0	0	1
EUROSTOMUS GRANDIS	0	0	0	1
SERRANUS SCOVELLI	0	0	0	1
EUROSTOMUS ARGENTEUS	108	62	81	5
EUROSTOMUS GULA	46	7	2	1
LACONIA RHOMBOIDES	3	0	0	3
PARALICHTHA CHRYSOURA	2	0	0	0
CYPRINOTOMUS AENEATUS	2	0	0	0
CHANNICHTHYS NEBULOSUS	1	0	0	0
MICROTERRIS AMERICANUS	0	0	0	1
CHANNICHTHYS FABER	1	0	0	0
CHANNICHTHYS SUBURAE	2	0	0	0
MICROTERRIS GULOSUS	2	0	1	0
PARALICHTHYS ALBIGUTTA	1	0	0	0
TOTAL NUMBER OF FISH	168	69	84	13
PERCAIDAE DUORARUM	20	2	2	1
PALAEONETES INTERMEDIUS	54	0	28	3
PALAEONETES PUGIO	0	0	4	0
CALLINECTES SAPIOUS	1	0	0	1
EUROSTOMUS DEPRESSUS	0	4	0	0
NEOGARDOPE TEXANA	9	0	0	0
TOTAL NUMBER OF INVERTEBRATES	84	6	34	5

FISHERIES SAMPLING COLLECTIONS
TOTAL NUMBER COLLECTED OVER ALL REPS FOR
CREEK TRAWL
SEPTEMBER 1983

SPECIES NAME	TC1	TC2	TC3	TC4
AMBYDRA HEPSETUS	0	0	1	0
AMBYDRA MITCHELLI	0	1	0	0
PARACHanna GRANDIS	0	7	0	0
PARACHanna ARGENTEUS	16	82	31	2
PARACHanna GULA	17	121	3	0
OSPHROSTOMUS CHRYSOPTERA	0	0	0	1
LABROPHROMBOIDES	1	5	8	1
HAETELLA CHRYSOURA	0	0	6	0
CAPOTON NEBULOSUS	1	4	0	0
PRISTIGERUS TRIBULUS	0	0	0	1
PAPALICHTHYS ALBIGUTTA	2	0	0	2
ACHILIS LINEATUS	0	0	0	1
TOTAL NUMBER OF FISH	37	220	49	8
PERIAETUS DUORARUM	2	65	1	2
PALAEOMNETES INTERMEDIUS	0	23	6	1
PALAEOMNETES PUGIO	0	1	2	0
PALAEOMNETES VULGARIS	1	0	0	0
PARACHanna GYMNOACTUS	0	2	0	0
CALATHICTES SAPIDUS	0	2	1	1
XANTHIDAE	1	0	0	0
EURYCEPHALUS DEPRESSUS	2	0	0	1
NEOPARACHanna TEXANA	1	2	0	0
TOTAL NUMBER OF INVERTEBRATES	7	95	10	5

FISHERIES SAMPLING COLLECTIONS
TOTAL NUMBER COLLECTED OVER ALL REPS FOR
CREEK TRAWL
OCTOBER 1983

SPECIES NAME	TC1	TC2	TC3	TC4
THORUS GRANDIS	0	7	0	4
SERRANUS LOUISIANAE	0	0	1	0
SERRANUS SCOVELLI	0	0	0	1
EPIPLATYS GRISEUS	0	2	1	0
PERCOTOMUS ARGENTEUS	10	84	50	4
PERCOTOMUS GULA	1	43	3	5
LACONIA RHOMBODES	0	14	0	1
CATOPTILION NEBULOSUS	0	1	0	0
PERCOTOMUS TRIPULUS	0	0	1	0
TOTAL NUMBER OF FISH	11	151	56	15
PERCOTOMUS DUORARUM	1	44	8	2
PERCOTOMUS INTERMEDIUS	0	4	0	4
PERCOTOMUS PUGIO	0	0	0	9
CALLINECTES SAPIDUS	1	2	1	0
PERCOTOMUS DEPRESSUS	0	0	0	1
PERCOTOMUS TEXANA	0	0	1	0
PERCOTOMUS SP	0	1	0	0
TOTAL NUMBER OF INVERTEBRATES	2	51	10	16

FISHERIES SAMPLING COLLECTIONS
TOTAL NUMBER COLLECTED OVER ALL REPS FOR
CREEK TRAWL
NOVEMBER 1983

SPECIES NAME	TC1	TC2	TC3	TC4
ANCHOA MITCHELLI	18	0	0	0
SYNODUS FOETENS	1	0	0	0
CYPRINODON VARIATUS	0	4	0	0
LUCANIA PARVA	0	34	2	0
SYNGNATHUS LOUISIANAE	0	0	1	0
SYNGNATHUS SCOVELLI	0	0	1	1
EUCINOSTOMUS ARGENTEUS	88	79	3	0
EUCINOSTOMUS GULA	84	77	1	1
LAGODON RHOMBOIDES	2	1	1	0
CYNOSCION ARENARIUS	0	1	0	0
LEIDOSTOMUS XANTHURUS	0	0	46	0
POGONIAS CROMIS	2	0	0	0
BATHYGobiUS SOPORATOR	1	1	0	0
PRIONOTUS TRIBULUS	0	0	1	0
PARALICHTHYS ALBIGUTTA	1	0	2	0
MONACANTHUS CILIATUS	0	0	1	0
TOTAL NUMBER OF FISH	297	197	59	2
PENAEUS DUOPARUM	15	16	0	0
TRACHYPENAEUS SIMILIS	2	0	0	0
BALAEON FLORIDANUS	0	2	0	0
PALAEOMNETES INTERMEDIUS	5	277	2	0
PALAEOMNETES VULGARIS	0	1	0	0
PERICLIMENES AMERICANUS	2	3	0	0
PERICLIMENES LONGICAUDATUS	1	2	0	0
HIPPOLYTE ZOSTERICOLA	0	2	0	0
CALLINectes SAPIDUS	9	10	1	1
NEOPANDPE TEXANA	0	2	1	0
TOTAL NUMBER OF INVERTEBRATES	34	315	4	1

FISHERIES SAMPLING COLLECTIONS
TOTAL BIOMASS (IN GRAMS) OVER ALL REPS FOR
CREEK TRAWL

JULY 1983

STATION

SPECIES
NAME

	TC1	TC2	TC3	T4
OTOMYS BETA	0.4	0.0	0.0	0.0
SCOPOLIUS SCOVELLI	0.0	0.0	1.6	0.0
CHRYSEOMERUS CHRYSURUS	0.0	0.1	0.0	0.0
TRIPLOSTOMUS ARGENTEUS	18.6	31.8	20.9	2.7
TRIPLOSTOMUS GULA	5.3	2.1	1.0	0.0
DELIPTERUS CHRYSOPTERA	0.0	8.5	125.0	0.0
LAZARUS RHOMBROIDES	101.6	17.4	62.7	0.0
BAUTELLA CHRYSOURA	0.0	6.2	0.0	0.0
CHRYSEOMERUS CHRYSURUS	0.4	0.0	0.0	0.0
MENTOCHIRUS AMERICANUS	0.0	0.0	0.0	0.1
CHALLOPTELLUS FABER	0.0	0.7	0.0	0.0
CHALLOPTELLUS SUBURRAE	1.4	0.0	0.0	0.0
MENTOCHIRUS GULOSUS	0.1	0.0	0.0	0.0
PALATICHTHYS ALBIGUTTA	7.2	0.0	0.0	0.0
TOTAL BIOMASS OF FISH	135.0	66.8	211.2	2.8
PERCAES DORARUM	1.5	0.0	0.0	0.0
LEACHINAEUS SIMILIS	0.0	0.0	0.0	0.2
CALAPHETES INTERMEDIUS	8.6	0.1	0.1	4.1
PALATICHTHYS PUGIO	0.0	0.0	0.0	0.5
PALATICHTHYS GYMNODACTYLUS	0.1	0.0	0.0	0.0
PALATICHTHYS SAPIIDUS	0.0	0.0	382.8	0.0
NEOTRACHEUS TEXANA	3.1	0.0	0.0	0.9
LEPTOCEPHALUS	2.2	0.0	0.0	0.0
MELOPSA CORONA	53.7	0.0	25.6	0.0
TOTAL BIOMASS OF INVERTEBRATES	69.2	0.1	408.5	5.8

FISHERIES SAMPLING COLLECTIONS
TOTAL BIOMASS (IN GRAMS) OVER ALL REFS FOR
CREEK TRAWL
AUGUST 1983

SPECIES NAME	TC1	TC2	TC3	T4
DASYATIS SABINA	0.0	0.0	0.0	121.3
FURCULUS GRACILIS	0.0	0.0	0.0	0.3
SYMPNATHUS SCUELLI	0.0	0.0	0.0	0.3
EUCLEIDONIMUS ARGENTEUS	96.1	113.9	28.5	5.5
EUPHODIOMUS GULA	77.6	16.7	4.5	2.1
LACONIN RHOMBROIDES	47.1	0.0	0.0	42.0
PAIDIELLA CHRYSOURA	1.6	0.0	0.0	0.0
CYNDOSION ARENARIUS	1.7	0.0	0.0	0.0
CYNDOSION NEBULOSUS	3.0	0.0	0.0	0.0
MYLICTERUS AMERICANUS	0.0	0.0	0.0	0.6
CHALOTRIPTERUS FABER	1.0	0.0	0.0	0.0
CHALOTRIPTERUS SUBURRAE	0.3	0.0	0.0	0.0
MICROPTERUS GULOSUS	0.2	0.0	0.1	0.0
PAPALICHTHYS ALBIGUTTA	4.6	0.0	0.0	0.0
TOTAL BIOMASS OF FISH	233.2	130.6	33.1	172.1
PENAEUS DUROARUM	9.1	1.4	0.8	0.5
PALAEOMONTES INTERMEDIUS	6.3	0.0	2.3	0.6
PALAEOMONTES PUGIO	0.0	0.0	0.5	0.0
CALLINectes SAPIDUS	9.2	0.0	0.0	185.0
EUPHODIOMUS DEPRESSUS	0.0	1.1	0.0	0.0
NEOTAPHIDE TEXANA	0.8	0.0	0.0	0.0
TOTAL BIOMASS OF INVERTEBRATES	25.4	2.5	3.6	186.1

FISHERIES SAMPLING COLLECTIONS
TOTAL BIOMASS (IN GRAMS) OVER ALL REPS FOR
CREEK TRAWL

SEPTEMBER 1983

SPECIES NAME	STATION			
	TC1	TC2	TC3	T4
AMCTEA HEPSETUS	0.0	0.0	0.1	0.0
AMCTEA MITCHELLI	0.0	0.1	0.0	0.0
EURYULUS GRANDIS	0.0	2.8	0.0	0.0
EURYULUS ARGENTEUS	13.2	88.9	18.4	2.9
EURYULUS GULA	42.8	278.0	7.8	0.0
ORIBERETIS CHRYSOPTERA	0.0	0.0	0.0	81.2
LACIDON RHOMBIDES	15.8	35.6	109.8	22.5
BATSEIDELLA CHRYSOURA	0.0	0.0	92.7	0.0
CHROCCIGN NEEULOSUS	1.0	11.1	0.0	0.0
PRIONOTUS TRICULUS	0.0	0.0	0.0	10.0
PARALICHTHUS ALBIGUTTA	35.9	0.0	0.0	213.5
ACHERUS LINEATUS	0.0	0.0	0.0	0.3
TOTAL BIOMASS OF FISH	108.7	416.5	228.8	330.4
PENAEUS DUORARUM	1.3	33.7	0.6	1.7
PALAEONETES INTERMEDIUS	0.0	2.5	0.5	0.1
PALAEONETES PUGIO	0.0	0.1	0.1	0.0
PALAEONETES VULGARIS	0.1	0.0	0.0	0.0
PAGRUS GYMNOACTUS	0.0	0.0	0.0	0.0
CALLINectes SAPIDUS	0.0	87.7	1.9	203.5
ZAPIDIDAE	0.0	0.0	0.0	0.0
EURYPARPEUS DEPRESSUS	0.2	0.0	0.0	0.3
PROPARPE TEXANA	0.0	0.3	0.0	0.0
TOTAL BIOMASS OF INVERTEBRATES	1.6	124.3	3.1	205.6

FISHERIES SAMPLING COLLECTIONS
TOTAL BIOMASS (IN GRAMS) OVER ALL REPS FOR
CREEK TRAWL

OCTOBER 1983

SPECIES
NAME

	STATION			
	TC1	TC2	TC3	T4
FORBESIUS GRANDIS	0.0	3.2	0.0	1.5
SYMPHYLUS LOUISIANAE	0.0	0.0	3.9	0.0
SYMPHYLUS SCOVELLI	0.0	0.0	0.0	1.1
LUTJANUS GRISEUS	0.0	0.4	0.1	0.0
FORBESIUS ARGENTEUS	6.8	50.9	21.5	4.8
FORBESIUS GULA	3.1	106.8	20.0	11.5
LACHON RHOMBOIDES	0.0	114.8	0.0	11.4
SYMPHYLUS NEBULOSUS	0.0	9.7	0.0	0.0
FORBESIUS TRIBULUS	0.0	0.0	0.7	0.0
TOTAL BIOMASS OF FISH	9.9	285.8	46.2	30.3
PETALUS RUORARUM	0.8	25.1	14.3	3.7
PALAEONETES INTERMEDIUS	0.0	0.4	0.0	0.7
PALAEONETES PUGIO	0.0	0.0	0.0	1.1
CALLINectes SAPIDUS	11.3	131.5	0.6	0.0
EURYPTERUS DEPRESSUS	0.0	0.0	0.0	0.2
NEOPANOPAE TEXANA	0.0	0.0	1.9	0.0
ECHINASTER SP.	0.0	1.9	0.0	0.0
TOTAL BIOMASS OF INVERTEBRATES	12.1	158.9	16.8	5.7

FISHERIES SAMPLING COLLECTIONS
TOTAL BIOMASS (IN GRAMS) OVER ALL REPS FOR
CREEK TRAWL

NOVEMBER 1983

SPECIES NAME	TC1	TC2	TC3	T4
ANCHOA MITCHELLI	11.5	0.0	0.0	0.0
SYNODUS FOETENS	9.7	0.0	0.0	0.0
CYPRINODON VARIEGATUS	0.0	1.0	0.0	0.0
LUCANIA PARVA	0.0	13.1	1.8	0.0
SYNGNATHUS LOUISIANAE	0.0	0.0	2.1	0.0
SYNGNATHUS SCOVELLI	0.0	0.0	1.0	1.2
EUCINOSTOMUS ARGENTEUS	39.9	32.6	2.9	0.0
EUCINOSTOMUS GULA	107.1	62.0	8.5	2.8
LAGODON RHOMBOIDES	29.0	11.3	1.7	0.0
CYNOSCION ARENARIUS	0.0	0.5	0.0	0.0
LEIOTOMUS XANTHURUS	0.0	0.0	794.3	0.0
POGONIAS CROMIS	160.0	0.0	0.0	0.0
BATHYGObIUS SOPORATOR	0.4	0.2	0.0	0.0
PRIONOTUS TRIBULUS	0.0	0.0	6.8	0.0
PARALICHTHYS ALBIGUTTA	47.0	0.0	26.3	0.0
MONACANTHUS CILIATUS	0.0	0.0	3.8	0.0
TOTAL BIOMASS OF FISH	404.6	120.7	849.2	4.0
PENAEUS DUORARUM	6.8	9.6	0.0	0.0
TRACHYPENAEUS SIMILIS	0.3	0.0	0.0	0.0
BALAEON FLORIDANUS	0.0	0.4	0.0	0.0
PALAEOMONETES INTERMEDIUS	0.7	28.3	0.3	0.0
PALAEOMONETES VULGARIS	0.0	0.2	0.0	0.0
PERICLIMENES AMERICANUS	0.1	0.2	0.0	0.0
PERICLIMENES LONGICAUDATUS	0.1	0.1	0.0	0.0
HIPPOLYTE ZOSTERICOLA	0.0	0.2	0.0	0.0
CALLINectes SAPIDUS	529.3	177.1	0.1	280.3
NEOPANOPE TEXANA	0.0	0.6	0.2	0.0
TOTAL BIOMASS OF INVERTEBRATES	537.3	216.7	0.6	280.3

1

FISHERIES SAMPLING COLLECTIONS
TOTAL NUMBER COLLECTED OVER ALL REFS FOR
DROP NET
JUNE 1983

SPECIES NAME	STATION	
	D1	D2
ANCHOA MITCHILLI	1	0
OPSANUS BETA	0	14
STRONGYLURA NOTATA	0	1
HIPPOCAMPUS ZOSTERAE	0	2
SYNGNATHUS SCOVELLI	0	15
EUCINOSTOMUS ARGENTEUS	29	6
EUCINOSTOMUS GULA	0	1
ORTHOPRISTIS CHRYSOPTERA	2	17
LAGODON RHOMBOIDES	3	38
BAIRDIELLA CHRYSOURA	0	2
CYNOSCION ARENARIUS	0	3
CYNOSCION NEPULOSUS	2	0
MUGIL CEPHALUS	0	1
GOBIOSOMA ROBUSTUM	0	27
MICROGOBIUS GULOSUS	2	16
PARALICHTHYS ALBIGUTTA	0	1
ACHIRUS LINEATUS	0	3
SYMPHURUS PLAGIUSA	0	5
TOTAL NUMBER OF FISH	38	152
PENAEUS DUORARUM	56	21
PALAEEMONETES INTERMEDIUS	22	203
ALPHEUS HETEROCHAEILIS	2	0
PAGURUS GYMNOACTUS	0	2
CALLINECTES SAPIDUS	1	3
NEOPANOPE TEXANA	0	69
TOTAL NUMBER OF INVERTEBRATES	81	298

FISHERIES SAMPLING COLLECTIONS
 TOTAL NUMBER COLLECTED OVER ALL REPS FOR
 DROP NET
 JULY 1983

SPECIES NAME	STATION	
	D1	D2
MYROPHIS PUNCTATUS	2	0
ANCHOA HEPSETUS	2	0
OPSANUS BETA	0	11
FUNDULUS GRANDIS	0	1
MENIDIA BERYLLINA	0	1
SYNGNATHUS SCOVELLI	0	10
OLIGOPLITES SAURUS	2	0
EUCINOSTOMUS ARGENTEUS	59	12
ORTHOPRISTIS CHRYSOPTERA	0	5
LAGODON RHOMBOIDES	1	17
BAIRDIELLA CHRYSOURA	0	2
CYNOSCION NEBULOSUS	1	0
CHASMODES SUBURRAE	0	2
GOBIOSOMA ROBUSTUM	0	21
MICROGOBIUS GULOSUS	0	1
ACHIRUS LINEATUS	0	1
TOTAL NUMBER OF FISH	67	84
PENAEUS DUORARUM	3	89
PALAEMONETES INTERMEDIUS	1	285
PALAEMONETES PUGIO	0	3
PALAEMONETES VULGARIS	0	5
ALPHEUS HETEROCHAEIS	0	9
HIPPOLYTE PLEURACANTHUS	0	1
PAGURUS GYMNOACTUS	0	1
CALLINECTES SAPIDUS	1	5
PORTUNUS GIBBESI	1	0
NEOPANGPE TEXANA	0	97
TOTAL NUMBER OF INVERTEBRATES	6	495

FISHERIES SAMPLING COLLECTIONS
 TOTAL NUMBER COLLECTED OVER ALL REPS FOR
 DROP NET
 AUGUST 1983

SPECIES NAME	STATION	
	D1	D2
MYROPHIS PUNCTATUS	0	1
STRONGYLURA NOTATA	0	1
SYNGNATHUS SCOVELLI	0	7
EUCINOSTOMUS ARGENTEUS	0	21
ORTHOPPRISTIS CHRYSOPTERA	0	2
LACODON RHOMBOIDES	0	8
BAIRDIELLA CHRYSOURA	0	1
GOBIOSOMA ROBUSTUM	0	1
TOTAL NUMBER OF FISH	0	42
PENAEUS DUORARUM	0	69
PALAEONETES INTERMEDIUS	0	2
ALPHEUS HETEROCHAEILIS	0	1
CALLINECTES SAPIDUS	0	4
NEOPANOPE TEXANA	0	2
LIBINIA DUBIA	0	1
TOTAL NUMBER OF INVERTEBRATES	0	79

FISHERIES SAMPLING COLLECTIONS
 TOTAL NUMBER COLLECTED OVER ALL REPS FOR

SPECIES NAME	DROP NET SEPTEMBER 1983		STATION	
	D1	D2	D1	D2
EUCINOSTOMUS ARGENTEUS	409	0		
FUCINOSTOMUS GULA	0	1		
TOTAL NUMBER OF FISH	409	1		

FISHERIES SAMPLING COLLECTIONS
 TOTAL NUMBER COLLECTED OVER ALL REPS FOR
 DROP NET

SPECIES NAME	OCTOBER 1983	STATION
	D1	D2
ANCHOA MITCHILLI	91	0
OPSANUS BETA	0	1
SYNGNATHUS FLORIDAE	1	0
CHLOROSCOMBRUS CHRYSURUS	5	0
LUTJANUS GRISEUS	0	2
EUCINOSTOMUS ARGENTEUS	284	34
EUCINOSTOMUS GULA	22	5
LAGODON RHOMBOIDES	0	2
BAIRDIELLA CHRYSOURA	0	2
TOTAL NUMBER OF FISH	403	46
PENAEUS DUORARUM	0	10
BALAEON FLORIDANUS	0	9
PALAEONETES INTERMEDIUS	0	12
PALAEONETES PUGIO	0	1
PERICLIMENES LONGICAUDATUS	0	21
HIPPOLYTE PLEURACANTHUS	0	13
HIPPOLYTE ZOSTERICOLA	0	52
LIPOGEBIA AFFINIS	1	0
CALLINECTES SAPIDUS	1	1
NEOPANOPE TEXANA	0	1
TOTAL NUMBER OF INVERTEBRATES	2	120

1

FISHERIES SAMPLING COLLECTIONS
TOTAL NUMBER COLLECTED OVER ALL REPS FOR
DROP NET

SPECIES NAME	NOVEMBER 1983	
	D1	STATION D2
OPSANUS BETA	0	1
LUCANIA PARVA	0	1
SYNGNATHUS LOUISIANAE	0	1
SYNGNATHUS SCOVELLI	0	6
EUCINOSTOMUS ARGENTUS	427	14
EUCINOSTOMUS GULA	34	9
LAGODON RHOMBOIDES	0	14
GOBIOSOMA ROBUSTUM	0	9
MICROGOBIUS GULOSUS	0	14
SYMPHURUS PLAGIUSA	0	3
TOTAL NUMBER OF FISH	461	72
PENAEUS DUORARUM	12	51
TRACHYPENAEUS SIMILIS	1	1
BALAEON FLORIDANUS	0	1
PALAEONETES INTERMEDIUS	0	288
PALAEONETES PUGIO	0	15
PERICLIMENES AMERICANUS	22	177
PERICLIMENES LONGICAUDATUS	0	29
ALPHEUS HETEROCHAEIS	1	34
HIPPOLYTE ZOSTERICOLA	1	300
TOZEUMA CAROLINENSE	0	15
AMBIDEXTER SYMMETRICUS	1	34
PAGURUS GYMNOACTUS	0	1
CALLINECTES SAPIDUS	5	22
NEOPANOPE TEXANA	1	9
TOTAL NUMBER OF INVERTEBRATES	44	977

1

FISHERIES SAMPLING COLLECTIONS
TOTAL BIOMASS (IN GRAMS) OVER ALL REPS FOR
DROP NET
JUNE 1987

SPECIES NAME	D1	STATION D2
ANCHOA MITCHILLI	0.1	0.0
OPSANUS BETA	0.0	6.3
STRONGYLURA NOTATA	0.0	0.4
HIPOCAMBUS ZOSTERAE	0.0	0.2
SYNGNATHUS SCOVELLI	0.0	3.5
EUCINOSTOMUS ARGENTEUS	20.5	1.2
EUCINOSTOMUS GULA	0.0	16.1
ORTHOPRISTIS CHRYSOPTERA	3.0	35.9
LAGODON RHOMBOIDES	6.3	141.5
BAIRDIELLA CHRYSOURA	0.0	1.5
CYNOSCION ARENARIUS	0.0	2.5
CYNOSCION NEBULOSUS	4.2	0.0
MUGIL CEPHALUS	0.0	0.2
GOBIOSOMA ROBUSTUM	0.0	1.3
MICROGGOBIUS GULOSUS	0.2	3.8
PARALICHTHYS ALBIGUTTA	0.0	4.2
ACHIRUS LINEATUS	0.0	0.3
SYMPHURUS PLAGIUSA	0.0	4.2
TOTAL BIOMASS OF FISH	0.0	4.2
PENAEUS DUORARUM	29.6	2.4
PALAEEMONETES INTERMEDIUS	0.9	11.7
ALPHEUS HETEROCHAEILIS	3.2	0.0
PAGURUS GYMNOACTUS	0.0	0.2
CALLINECTES SAPIDUS	133.3	26.2
NEOPANOPE TEXANA	0.0	13.2
TOTAL BIOMASS OF INVERTEBRATES	0.0	13.2

FISHERIES SAMPLING COLLECTIONS
TOTAL BIOMASS (IN GRAMS) OVER ALL REPS FOR
DROP NET
JULY 1983

SPECIES NAME	STATION	
	D1	D2
MYROPHIS PUNCTATUS	0.8	0.0
ANCHOA HEPSETUS	0.1	0.0
OPSANUS BETA	0.0	6.2
FUNDULUS GRANDIS	0.0	0.5
MENIDIA BERYLLINA	0.0	0.5
SYNGNATHUS SCOVELLI	0.0	3.8
OLIGOLITES SAURUS	1.4	0.0
EUCINOSTOMUS ARGENTEUS	22.7	11.9
ORTHOPRISTIS CHRYSOPTERA	0.0	23.0
LAGODON RHONEOIDES	14.1	86.8
BAIRDIELLA CHRYSOURA	0.0	2.2
CYNOSCION NEBULOSUS	0.1	0.0
CHASMODES SUPURRAE	0.0	0.2
GOBIOSOMA ROBUSTUM	0.0	2.3
MICROGOEIUS GULOSUS	0.0	0.3
ACHIRUS LINEATUS	0.0	0.3
TOTAL BIOMASS OF FISH	0.0	0.3
PENAEUS DUROCHARUM	0.8	14.7
PALAEOMNETES INTERMEDIUS	0.1	24.3
PALAEOMNETES PUGIO	0.0	0.5
PALAEOMNETES VULGARIS	0.0	0.7
ALPHEUS HETEROCHAELIS	0.0	6.3
HIPPOLYTE PLEURACANTHUS	0.0	0.0
PAGURUS GYMNOACTUS	0.0	0.0
CALLINectes SAPIDUS	0.5	72.4
PORTUNUS GIBBESI	0.1	0.0
NEOPANDPE TEXANA	0.0	35.8
TOTAL BIOMASS OF INVERTEBRATES	0.0	35.8

FISHERIES SAMPLING COLLECTIONS
TOTAL BIOMASS (IN GRAMS) OVER ALL REPS FOR
DROP NET
AUGUST 1983

SPECIES NAME	STATION	
	D1	D2
MYROPHIS PUNCTATUS	0.0	0.5
STRONGYLURA NOTATA	0.0	0.8
SYNGNATHUS SCOVELLI	0.0	4.4
EUCINOSTOMUS ARGENTEUS	0.0	10.4
ORTHOPRISTIS CHRYSOPTERA	0.0	10.5
LAGODON RHOMBOIDES	0.0	21.2
BAIRDTELLA CHRYSOURA	0.0	1.8
GOBIOSOMA ROBUSTUM	0.0	0.3
TOTAL BIOMASS OF FISH	0.0	0.3
PENAEUS DUORARUM	0.0	94.4
PALAEONETES INTERMEDIUS	0.0	0.1
ALPHEUS HETEROCHAELIS	0.0	0.3
CALLINectes SAPIDUS	0.0	21.6
NEOPANOPE TEXANA	0.0	3.8
LIBINIA DUBIA	0.0	0.1
TOTAL BIOMASS OF INVERTEBRATES	0.0	0.1

FISHERIES SAMPLING COLLECTIONS
TOTAL BIOMASS (IN GRAMS) OVER ALL REPS FOR

DROP NET

SEPTEMBER 1983

SPECIES NAME	STATION	
	D1	D2
EUCINOSTOMUS ARGENTEUS	214.6	0.0
EUCINOSTOMUS GULA	0.0	10.3
TOTAL BIOMASS OF FISH	0.0	10.3

FISHERIES SAMPLING COLLECTIONS
TOTAL BIOMASS (IN GRAMS) OVER ALL HEPs FOR

DPOP NET

OCTOBER 1983

SPECIES NAME	STATION	
	D1	D2
ANCHOA MITCHILLI	22.2	0.0
OPSANUS BETA	0.0	1.2
SYNGNATHUS FLORIDA	0.3	0.0
CHLOROSCOMBRUS CHRYSURUS	10.4	0.0
LUTJANUS GRISEUS	0.0	3.5
EUCINOSTOMUS ARGENTEUS	375.8	1.7
EUCINOSTOMUS GULA	79.7	18.0
LAGODON RHOMBOIDES	0.0	15.2
BAIRDIELLA CHRYSOURA	0.0	18.3
TOTAL BIOMASS OF FISH	0.0	18.3
PENAEUS DUORARUM	0.0	7.8
RALLAEMON FLORIDANUS	0.0	1.0
PALAEOMNETES INTERMEDIUS	0.0	2.2
PALAEOMNETES PUGIO	0.0	0.1
PERICLIMENES LONGICAUDATUS	0.0	0.3
HIPPOLYTE PLEURACANTHUS	0.0	0.0
HIPPOLYTE ZOSTERICOLA	0.0	1.1
UPOGEBIA AFFINIS	0.2	0.0
CALLINECTES SAPIDUS	54.3	81.1
NEOPANOPE TEXANA	0.0	0.2
TOTAL BIOMASS OF INVERTEBRATES	0.0	0.2

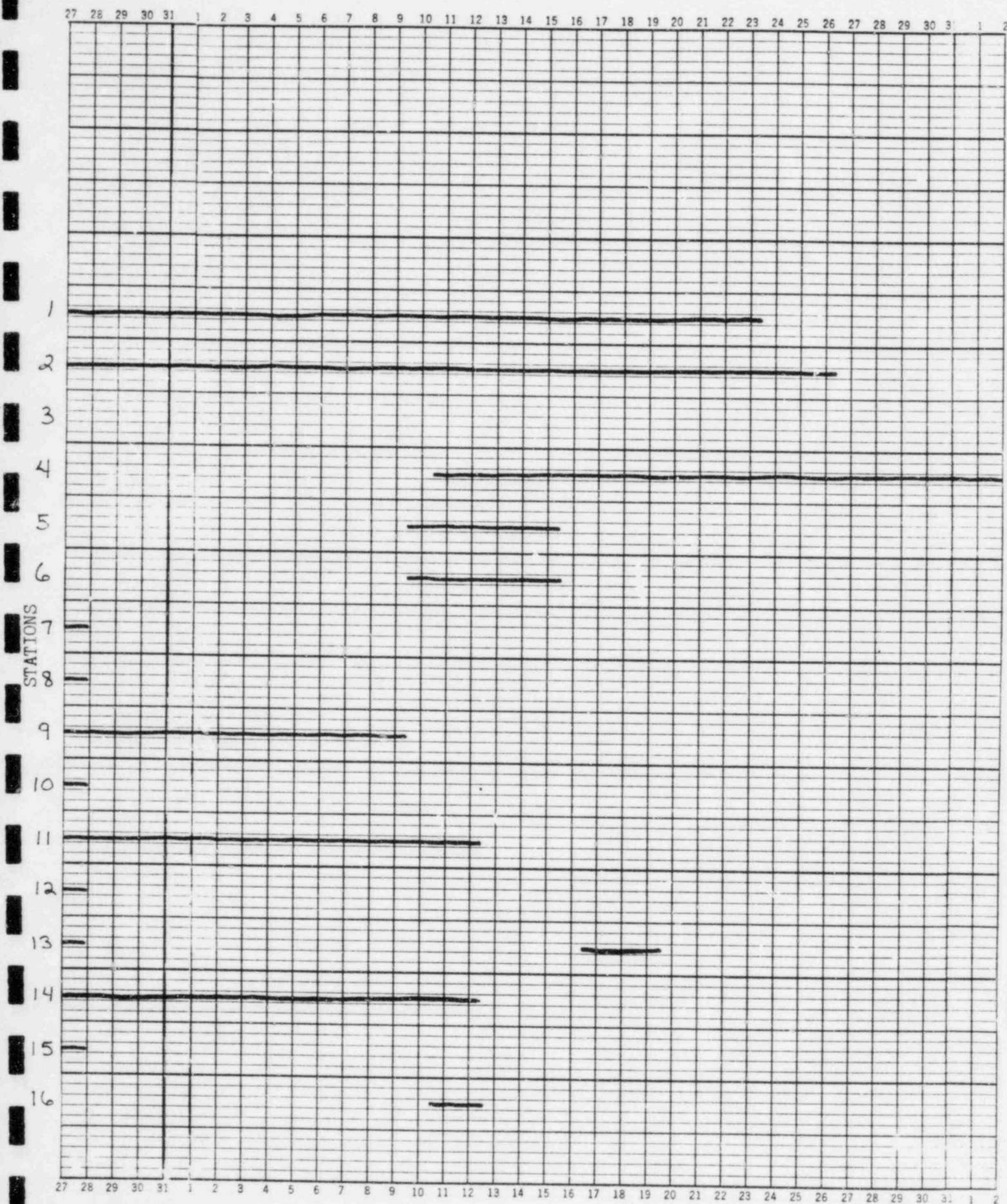
1

FISHERIES SAMPLING COLLECTIONS
TOTAL BIOMASS (IN GRAMS) OVER ALL REPS FOR
DROP NET

SPECIES NAME	NOVEMBER 1983	
	D1	STATION D2
OPSANUS BETA	0.0	1.7
LUCANIA PARVA	0.0	0.5
SYNGNATHUS LOUISIANAE	0.0	0.7
SYNGNATHUS SCOVELLI	0.0	2.6
EUCINOSTOMUS ARGENTEUS	211.9	6.4
EUCINOSTOMUS GULA	50.8	20.0
LAGODON RHOMBOIDES	0.0	88.8
GOBIOSOMA ROBUSTUM	0.0	0.7
MICROGOBIUS GULOSUS	0.0	2.4
SYMPHURUS PLAGIUSA	0.0	5.7
TOTAL BIOMASS OF FISH	0.0	5.7
PENAEUS DUORARUM	3.9	24.2
TRACHYPENAEUS SIMILIS	0.1	0.2
BALAEON FLORIDANUS	0.0	0.1
PALAEONETES INTERMEDIUS	0.0	21.9
PALAEONETES PUGIO	0.0	0.1
PERICLIMENES AMERICANUS	0.7	3.9
PERICLIMENES LONGICAUDATUS	0.0	0.5
ALPHEUS HETEROCHAEALIS	1.0	23.2
HIPPOLYTE ZOSTERICOLA	0.0	4.7
TOZEUMA CAROLINENSE	0.0	0.6
AMBIDEXTER SYMMETRICUS	0.0	2.6
PAGURUS GYMNOACTUS	0.0	0.1
CALLINECTES SAPIDUS	0.9	31.8
NEOPANOPE TEXANA	0.1	8.9
TOTAL BIOMASS OF INVERTEBRATES	0.1	8.9

4.5 PHYSICAL DATA

IN SITU TIDE DATA
(No data available on dates marked)



Month AUGUST 1983

IN SITU CURRENT DATA
(No data available on dates marked)

27 28 29 30 31 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 1 2

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16

STATIONS

27 28 29 30 31 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 1 2

Month AUGUST 1983