



NOAA Technical Memorandum

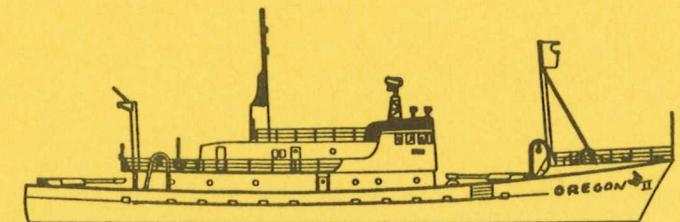
NMFS - SEFC - 130

**Station and Catch Data,
FRS Oregon II Cruise 85,
January 1978 (West Florida Shelf)**

George H. Darcy

Elmer J. Gutherz

JANUARY 1984



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

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U.S. DEPARTMENT OF COMMERCE
Malcolm Baldrige, Secretary

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
John V. Byrne, Administrator

NATIONAL MARINE FISHERIES SERVICE
William G. Gordon, Assistant Administrator for Fisheries

ABSTRACT

Station data, including location, date, depth, surface water temperature, and bottom type are presented for 338 bottom trawl stations sampled by the FRS Oregon II on the West Florida Shelf during Cruise 85, January 1978. Fish species diversity, evenness, and richness indices are given for each station. Fish and selected species of invertebrates are listed taxonomically, along with stations at which they were caught; catches of these species by depth zone are given in terms of number of individuals and biomass.

The West Florida Shelf is a broad expanse of limestone extending seaward from Florida into the Gulf of Mexico. Bottom type varies considerably on the shelf, ranging from soft sediments to rock. Hard bottom exists where unconsolidated sediments have been removed by currents, exposing the limestone pavement beneath. In other areas, bottom relief in the form of rocky pinnacles, ledges, or outcrops provides hard substrate surrounded by soft sediments (Joyce and William 1969; Smith et al. 1975; Berkeley et al. in press). Where hard substrate persists, sessile invertebrates, such as sponges, corals, bryozoans, echinoderms, and tunicates often take hold (Smith 1976), forming live bottom. Location and extent of this live bottom may change over time as currents move sediments across the shelf, exposing new areas of hard bottom and burying others. Demersal fish fauna varies with bottom type, each habitat providing different opportunities for feeding and protection.

Although demersal fish abundance and density have been examined during several surveys along the southeastern coast of the United States (Hildebrand 1954; Roithmayr 1965; Struhsaker 1969; Franks et al. 1972; Barans and Burrell 1976; Chittenden and McEachran 1976; Chittenden and Moore 1977; Cody et al. 1978; Ragan et al. 1978; Wenner et al. 1979), few studies have dealt with the West Florida Shelf. A study by Juhl (1966) demonstrated that much of the West Florida Shelf is trawlable if suitable gear is used. In order to supply information on fish abundance and density off the west coast of Florida, bottom trawling was conducted in January 1978. An earlier publication (Darcy and Gutherz 1984) dealt with general aspects of the results of this study, including

fish abundance and density by geographical subarea and depth zones, and a comparison of apparent standing stocks of demersal fishes in different areas of the Gulf of Mexico. This paper is intended to be a supplement to the Darcy and Gutherz (1984) publication and to serve as an appendix for an additional paper forthcoming (Darcy and Gutherz unpubl.) that will examine distributions and associations of fishes and selected invertebrates on the West Florida Shelf in more detail.

Three-hundred and thirty-eight stations were sampled on the West Florida Shelf during Cruise 85 of the NOAA vessel FRS Oregon II, 7-31 January 1978. A list of the stations sampled, along with latitude, longitude, date, depth, surface sea temperature, bottom type (when known), and the number of fish individuals and species caught, appears in Table 1. All stations were located in 9-193 m of water from off Cape San Blas, Fla., to the Dry Tortugas, Fla. Samples were collected using a 12.2-m semi-balloon shrimp trawl with a stretched mesh size of 5.1 cm in the body of the net and 4.4 cm in the codend. Towing speed was 4.6 km/h. Bottom fishing time was 10 min for stations \leq 93 m, and 15 min for stations $>$ 93 m, to compensate for the greater time needed for the net to achieve fishing conformation in deeper water.

The total live catch at each station was weighed. Fish and invertebrates were then separated, counted, and weighed to the nearest 0.05 kg on a spring scale, or larger beam balance. Surface water temperature was recorded at each station, and bottom type was recorded. Seven bottom types were specified: sand, hard bottom, gravel, rock, sponge, coral, and mud. Sand, coral, and mud designations were based on the cruise log. Sponge designation was given to stations having $>$ 2.5 kg of sponges in the catch. Coral bottom was defined as those stations having a greater weight of coral (anthozoans) in the catch than any other sessile invertebrates. Hard bottom was defined as those stations having \leq 2.5 kg of sponges in the catch, but having significant amounts of sessile invertebrates other than corals. Stations for which there were no log entries on bottom type and that had no sessile invertebrates in the catch were not assigned a bottom type.

Three indices, a Shannon-Weaver species diversity index (Pielou 1975), an evenness index (Pielou 1975), and a Margalef species richness index (Clifford and Stephenson 1975), were calculated for the fish catch at each station. Fish species that were collected at fewer than three stations, and species that are primarily pelagic were excluded from the analysis. The Shannon-Weaver diversity index (H') was calculated as follows:

$$H' = -\sum p_i \ln p_i$$

where i is the number of species captured at the station and p_i is the proportion of the i -th species in the catch. Mean fish species diversity was calculated and plotted for each 20' x 20' grid zone in the survey area.

Because species diversity is dependent both on the number of species present and their proportion in the population, species richness and evenness indices are useful for separating the effects of these two components. The Margalef species richness index (D) was calculated as follows:

$$D = (S-1)/\ln N$$

where S is the number of species captured at the station and N is the total number of individuals captured at the station. The richness index is sensitive to the number of species present, but does not take into account each species' relative contribution to the number of individuals present. The Pielou evenness index (J') was obtained by:

$$J' = H'/\ln S$$

where H' is the Shannon-Weaver species diversity index and S is the number of species captured at the station. The evenness index considers the number of species present, but also considers the relative contributions of the species through the diversity index.

III. Results

Indices of diversity, evenness, and richness calculated for each station's fish catch appear in Table 1. Species diversity index values ranged from 0.000 to 2.915, evenness from 0.022 to 1.000, and richness from 0.000 to 5.903. A list of fish species caught during Cruise 85 appears in Table 2, with station numbers of catch localities. Selected invertebrate species caught appear in Table 3, with catch localities. Catches of fish and invertebrates, by species, by depth zone, appear in Tables 4 and 5. Catches are expressed in both numbers of individuals caught and biomass.

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Table 1. Collection data for 338 bottom trawl stations sampled by Oregon II Cruise 85, January 1978. Fish species diversity indices are those of Shannon-Weaver (Pielou 1975), evenness is based on the Pielou evenness index (Pielou 1975), and species richness is based on the Margalef species richness index (Margalef 1968). Indices are based on fish catches only. Bottom types are as follows: S - sand; H - hard bottom; SP - sponge; GR - gravel; M - mud; RK - rock; CO - coral.

Station Number	Date (1978)	N. lat.		W. long.		Depth (m)	Surface Temp. (°C)	Bottom Type	No. Spp.	No. Individ.	Fish Species		
		Deg.	Min.	Deg.	Min.						Diversity	Evenness	Richness
23296	1/8	29	49	85	28	14.8	13.9	-1/	0	0	-	-	-
23297	1/8	29	44	85	29	14.8	17.8	-	4	8	1.213	0.875	1.443
23298	1/8	29	35	85	28	16.7	15.6	S	9	20	1.899	0.864	2.670
23299	1/8	29	30	85	24	18.5	15.0	S	4	4	1.386	1.000	2.164
23300	1/8	29	29	85	23	24.1	16.7	H	14	94	1.849	0.701	2.861
23301	1/8	29	36	85	15	11.1	15.0	S	13	109	1.598	0.623	2.558
23302	1/8	29	35	85	17	11.1	15.0	S	9	683	1.200	0.546	1.226
23303	1/8	29	33	85	13	13.0	15.6	S	3	35	0.582	0.530	0.563
23304	1/8	29	29	85	09	18.5	15.0	S	10	199	0.950	0.413	1.700
23305	1/8	29	25	85	08	20.4	15.0	S	6	21	1.609	0.898	1.642
23306	1/8	29	15	85	11	33.4	16.7	-	11	223	1.908	0.796	1.849
23307	1/8	29	14	85	16	33.4	17.8	-	9	181	1.860	0.847	1.539

Table 1 (Continued)

Station Number	Date (1978)	N. lat.		W. long.		Depth (m)	Surface	Bottom	No.	No.	Fish Species		
		Deg.	Min.	Deg.	Min.						Type	Spp.	Individ.
23308	1/8	29	15	85	26	46.3	18.3	H	21	541	2.173	0.714	3.178
23309	1/9	29	23	84	54	25.9	13.3	S	19	80	2.427	0.824	4.108
23310	1/9	29	27	84	54	22.2	13.9	S	30	293	2.234	0.657	5.105
23311	1/9	29	36	84	42	14.8	14.4	-	4	5	1.332	0.961	1.864
23312	1/9	29	34	84	39	20.4	15.6	SP	9	633	1.118	0.509	1.240
23313	1/9	29	29	84	34	22.2	16.7	-	16	323	2.068	0.746	2.596
23314	1/9	29	19	84	36	33.4	17.8	H	18	446	2.346	0.812	2.787
23315	1/9	29	19	84	33	31.5	17.2	H	16	471	2.092	0.755	2.437
23316	1/9	29	31	84	27	24.1	16.7	SP	22	1,366	1.705	0.552	2.909
23317	1/10	29	37	84	30	18.5	-	S	0	0	-	-	-
23318	1/10	29	37	84	18	20.4	15.0	SP	16	115	1.486	0.536	3.161
23319	1/10	29	46	84	18	14.8	12.2	S	18	50	2.335	0.808	4.346
23320	1/10	29	46	84	14	14.8	13.9	SP	10	37	2.066	0.897	2.492
23321	1/10	29	45	84	12	16.7	13.3	H	10	36	1.862	0.809	2.511
23322	1/10	29	39	84	10	18.5	14.4	SP	7	174	1.831	0.941	1.163
23323	1/10	29	38	83	59	16.7	13.9	SP	7	30	1.821	0.936	1.764

Table 1 (Continued)

Station Number	Date (1978)	N. lat.		W. long.		Depth (m)	Surface Temp. (°C)	Bottom Type	No. Spp.	No. Individ.	Fish Species		
		Deg.	Min.	Deg.	Min.						Diversity	Evenness	Richness
23324	1/10	29	34	83	59	18.5	14.4	SP	5	62	1.336	0.830	0.969
23325	1/10	29	31	83	49	14.8	13.3	H	5	11	1.414	0.879	1.668
23326	1/10	29	36	83	44	11.1	12.2	H	8	23	1.664	0.800	2.233
23327	1/10	29	34	83	39	9.3	12.2	H	3	7	0.796	0.725	1.028
23328	1/10	29	29	83	38	11.1	12.2	H	2	2	0.693	1.000	1.443
23329	1/10	29	27	83	41	13.0	12.8	GR	2	5	0.673	0.971	0.621
23330	1/10	29	22	83	46	16.7	13.9	GR	3	3	1.099	1.000	1.820
23331	1/10	29	27	83	51	16.7	13.9	GR	3	4	1.040	0.946	1.443
23332	1/10	29	27	83	56	18.5	13.9	GR	6	10	1.498	0.836	2.171
23333	1/10	29	24	83	57	18.5	15.0	-	3	9	1.061	0.966	0.910
23334	1/10	29	18	84	02	18.5	15.0	SP	12	134	1.318	0.530	2.246
23335	1/10	29	21	84	06	22.2	15.6	SP	15	100	2.030	0.750	3.040
23336	1/10	29	22	84	11	22.2	15.6	SP	13	61	1.922	0.749	2.919
23337	1/10	29	21	84	16	25.9	15.0	SP	6	9	1.677	0.936	2.276
23338	1/10	29	14	84	13	25.9	16.7	SP	8	18	1.687	0.811	2.422
23339	1/10	29	13	84	09	25.9	16.1	SP	24	90	2.439	0.767	5.111

Table 1 (Continued)

Station Number	Date (1978)	N. lat.	W. long.	Depth	Surface	Bottom	No.	No.	Fish Species		
		Deg. Min.	Deg. Min.	(m)	Temp. (°C)	Type	Spp.	Individ.	Diversity	Evenness	Richness
23340	1/10	29 04	84 15	25.9	15.6	SP	20	101	2.329	0.777	4.117
23341	1/11	29 06	85 27	29.6	16.7	-	10	24	2.069	0.898	2.832
23342	1/11	29 06	85 24	55.6	17.8	H	4	4	1.386	1.000	2.164
23343	1/11	29 06	85 19	51.9	17.8	H	15	72	2.067	0.763	3.274
23344	1/11	29 02	85 13	44.5	17.2	H	8	26	1.631	0.785	2.148
23345	1/11	28 59	85 09	40.8	17.2	H	5	17	0.872	0.542	1.412
23346	1/11	28 58	85 11	55.6	17.8	-	8	588	0.266	0.128	1.098
23347	1/11	28 51	85 21	55.6	17.2	-	5	11	1.295	0.804	1.668
23348	1/11	28 52	85 27	94.5	18.9	S	5	7	1.550	0.963	2.056
23349	1/11	28 46	85 19	113.0	18.9	S	3	8	0.900	0.819	0.962
23350	1/11	28 46	85 04	120.4	11.1	-	14	599	2.123	0.805	2.033
23351	1/11	28 50	84 59	51.9	17.8	-	18	701	2.122	0.734	2.594
23352	1/11	28 40	84 56	57.4	17.8	H	24	627	2.352	0.740	3.571
23353	1/11	28 38	85 05	111.2	18.3	-	25	153	2.708	0.841	4.771
23354	1/11	28 41	85 15	135.3	18.9	M	23	119	2.590	0.826	4.603
23355	1/12	28 38	85 18	150.1	19.4	M	16	71	2.360	0.851	3.519

Table 1 (Continued)

Station Number	Date (1978)	N. lat.		W. long.		Depth (m)	Surface Temp. (°C)	Bottom Type	No. Spp.	No. Individ.	Fish Species		
		Deg.	Min.	Deg.	Min.						Diversity	Evenness	Richness
23356	1/12	28	36	85	22	164.9	18.9	M	15	91	2.455	0.907	3.104
23357	1/12	28	33	85	23	176.0	20.6	-	11	84	1.975	0.823	2.257
23358	1/12	28	31	85	18	159.4	18.9	-	12	109	2.057	0.828	2.345
23359	1/12	28	29	85	19	170.5	18.9	-	24	400	2.522	0.793	3.839
23360	1/12	28	26	85	10	163.1	18.3	-	23	142	2.632	0.839	4.439
23361	1/12	28	27	85	04	129.7	18.3	-	13	213	2.198	0.857	2.238
23362	1/12	28	23	85	07	148.2	18.3	-	17	190	2.242	0.791	3.049
23363	1/12	28	18	85	07	166.8	18.9	-	13	379	1.818	0.709	2.021
23364	1/12	28	17	84	58	135.3	13.3	M	18	181	2.029	0.702	3.270
23365	1/12	28	18	84	54	107.5	18.3	H	22	148	2.763	0.894	4.202
23366	1/12	28	13	84	58	150.1	18.9	S	13	157	2.181	0.850	2.373
23367	1/12	28	09	84	52	166.8	18.3	-	15	128	1.895	0.700	2.885
23368	1/12	27	59	84	48	185.3	19.4	-	15	128	1.895	0.700	2.885
23369	1/12	27	54	84	43	176.0	17.8	-	15	87	2.044	0.755	3.135
23370	1/12	27	49	84	38	163.1	22.2	-	19	112	2.399	0.815	3.815
23371	1/12	27	43	84	28	120.4	21.1	-	15	98	2.277	0.841	3.053

Table 1 (Continued)

Station Number	Date (1978)	N. lat.	W. long.	Depth	Surface	Bottom	No.	No.	Fish Species		
		Deg. Min.	Deg. Min.	(m)	Temp. (°C)	Type	Spp.	Individ.	Diversity	Evenness	Richness
23372	1/13	27 46	84 26	96.4	18.9	H	27	252	2.632	0.799	4.702
23373	1/13	27 55	84 30	88.9	18.3	S	13	233	1.874	0.731	2.201
23374	1/13	27 57	84 35	100.1	19.4	S	14	213	1.975	0.748	2.425
23375	1/13	28 02	84 35	77.8	18.9	-	12	400	2.054	0.826	1.836
23376	1/13	28 02	84 29	77.8	18.3	-	16	380	2.287	0.825	2.525
23377	1/13	28 01	84 24	66.7	18.3	-	20	396	2.524	0.843	3.177
23378	1/13	28 05	84 19	59.3	18.3	-	24	1,016	2.647	0.833	3.322
23379	1/13	28 06	84 21	61.1	18.3	-	13	354	2.135	0.832	2.045
23380	1/13	28 06	84 31	74.1	17.8	H	24	242	2.469	0.777	4.190
23381	1/13	28 11	84 31	70.4	18.3	H	23	241	2.382	0.760	4.011
23382	1/13	28 12	84 29	66.7	18.3	H	25	191	2.681	0.833	4.569
23383	1/13	28 15	84 22	51.9	18.3	S	19	313	2.257	0.767	3.133
23384	1/13	28 16	84 30	63.0	17.8	SP	10	382	1.287	0.559	1.514
23385	1/13	28 21	84 47	64.9	17.2	-	11	411	1.942	0.810	1.662
23386	1/13	28 21	84 45	64.9	17.8	SP	14	120	2.320	0.879	2.715
23387	1/13	28 26	84 33	59.3	17.8	SP	17	434	2.530	0.893	2.635

Table 1 (Continued)

Station Number	Date (1978)	N. lat.		W. long.		Depth (m)	Surface Temp. (°C)	Bottom Type	No. Spp.	No. Individ.	Fish Species		
		Deg.	Min.	Deg.	Min.						Diversity	Evenness	Richness
23388	1/13	28	30	84	37	55.6	17.2	SP	23	567	2.460	0.785	3.470
23389	1/13	28	35	84	29	48.2	18.3	H	25	784	2.516	0.782	3.601
23390	1/14	28	41	84	36	48.2	17.8	S	18	572	2.167	0.750	2.678
23391	1/14	28	46	84	32	37.1	17.8	SP	14	319	2.081	0.788	2.255
23392	1/14	28	48	84	22	35.2	16.7	S	16	440	2.053	0.740	2.464
23393	1/14	28	46	84	17	35.2	17.8	SP	13	468	1.467	0.572	1.952
23394	1/14	28	51	84	25	35.2	17.8	SP	15	302	2.148	0.793	2.452
23395	1/14	28	57	84	40	38.9	16.7	H	13	49	2.146	0.837	3.083
23396	1/14	28	56	84	38	38.9	17.2	H	19	95	2.537	0.862	3.953
23397	1/14	29	06	84	32	33.4	16.1	-	5	307	0.088	0.054	0.698
23398	1/14	29	03	84	41	35.2	16.7	SP	16	941	2.162	0.780	2.191
23399	1/14	29	01	84	46	40.8	16.7	SP	18	727	1.890	0.654	2.580
23400	1/14	29	06	84	46	37.1	16.1	S	20	1,272	1.988	0.664	2.658
23401	1/14	29	11	84	55	31.5	14.4	SP	9	249	1.261	0.574	1.450
23402	1/14	29	18	84	54	25.9	13.9	SP	13	207	1.324	0.516	2.250

Table 1 (Continued)

Station Number	Date (1978)	N. lat.		W. long.		Depth (m)	Surface Temp. (°C)	Bottom Type	No. Spp.	No. Individ.	Fish Species		
		Deg.	Min.	Deg.	Min.						Diversity	Evenness	Richness
23404	1/14	29	01	84	04	29.6	15.6	SP	10	13	2.245	0.975	3.509
23405	1/15	29	11	83	49	22.2	13.9	H	11	46	1.695	0.707	2.612
23406	1/15	29	04	83	52	25.9	14.4	-	13	81	1.794	0.700	2.731
23407	1/15	28	59	83	53	25.9	14.4	-	9	22	1.981	0.902	2.588
23408	1/15	29	06	83	39	18.5	13.3	H	9	25	1.751	0.797	2.485
23409	1/15	29	06	83	34	14.8	12.2	H	15	54	1.974	0.729	3.510
23410	1/15	29	06	83	29	13.0	11.7	H	7	23	1.326	0.681	1.914
23411	1/15	29	11	83	27	11.1	11.1	H	9	21	2.058	0.937	2.628
23412	1/15	29	15	83	28	11.1	10.0	H	11	35	2.026	0.845	2.813
23413	1/15	29	11	83	23	9.3	10.6	H	8	10	2.025	0.974	3.040
23414	1/15	29	08	83	23	9.3	11.1	SP	8	16	1.890	0.909	2.525
23415	1/15	29	00	83	28	14.8	12.2	SP	5	29	1.086	0.674	1.188
23416	1/15	28	57	83	24	14.8	11.7	RK	6	1,138	1.276	0.712	0.711
23417	1/15	28	54	83	19	14.8	11.7	GR	7	10	1.748	0.898	2.606
33418	1/15	28	52	83	14	13.0	11.7	-	9	39	1.323	0.602	2.184
23419	1/15	28	52	83	09	13.0	11.1	SP	0	0	-	-	-

Table 1 (Continued)

Station Number	Date (1978)	N. lat.		W. long.		Depth (m)	Surface Temp. (°C)	Bottom Type	No. Spp.	No. Individ.	Fish Species		
		Deg.	Min.	Deg.	Min.						Diversity	Evenness	Richness
23420	1/15	28	48	83	11	13.0	11.7	SP	3	553	0.849	0.773	0.317
23421	1/15	28	44	83	08	13.0	11.7	SP	7	5,663	1.153	0.592	0.694
23422	1/15	28	39	83	08	11.1	11.7	SP	13	4,422	1.433	0.559	1.430
23423	1/15	28	38	83	11	13.0	12.2	SP	19	800	2.079	0.706	2.693
23424	1/15	28	45	83	16	14.8	12.2	SP	15	425	2.425	0.895	2.313
23425	1/15	28	47	83	21	18.5	12.2	SP	10	420	2.025	0.880	1.490
23426	1/15	28	43	83	26	18.5	12.8	SP	21	105	2.488	0.817	4.297
23427	1/16	28	46	83	27	20.4	12.8	SP	12	1,478	0.685	0.276	1.507
23428	1/16	28	51	83	27	18.5	12.8	SP	7	180	1.400	0.719	1.155
23429	1/16	28	51	83	41	22.2	14.4	SP	11	780	0.981	0.409	1.502
23430	1/16	28	51	83	46	22.2	14.4	SP	14	88	1.996	0.756	2.904
23431	1/16	28	48	83	47	24.1	13.9	SP	19	68	2.597	0.882	4.266
23432	1/16	28	43	84	05	35.2	16.7	SP	3	179	0.704	0.641	0.386
23433	1/16	28	39	84	05	37.1	8.9	SP	8	114	1.348	0.648	1.478
23434	1/16	28	38	83	49	29.6	15.0	SP	9	77	0.854	0.389	1.842
23435	1/16	28	29	83	47	31.5	15.0	SP	11	87	1.845	0.769	2.239

Table 1 (Continued)

Station Number	Date (1978)	N. lat.		W. long.		Depth (m)	Surface	Bottom	No. Spp.	No. Individ.	Fish Species		
		Deg.	Min.	Deg.	Min.						Type	Diversity	Evenness
23436	1/16	28	31	84	45	29.6	16.1	SP	3	305	0.596	0.543	0.350
23437	1/16	28	29	83	39	27.8	15.0	SP	7	508	1.233	0.634	0.963
23438	1/16	28	31	83	37	25.9	15.0	SP	6	81	1.460	0.815	1.138
23439	1/16	28	32	83	34	25.9	14.4	SP	5	1,738	1.139	0.708	0.536
23440	1/16	28	29	83	34	24.1	14.4	SP	9	152	0.922	0.420	1.592
23441	1/16	28	28	83	29	22.2	14.4	SP	7	210	1.737	0.893	1.122
23442	1/16	28	27	83	19	22.2	14.4	SP	0	0	-	-	-
23443	1/16	28	28	83	14	18.5	12.8	SP	9	278	1.904	0.867	1.422
23444	1/16	28	32	83	04	11.1	12.2	SP	29	296	2.447	0.727	4.921
23445	1/16	28	24	83	11	18.5	12.8	SP	22	98	2.669	0.863	4.580
23446	1/16	28	19	83	09	18.5	12.8	SP	22	96	2.687	0.869	4.601
23447	1/16	28	17	83	11	16.7	12.8	H	21	80	2.409	0.791	4.564
23448	1/17	28	22	83	26	24.1	14.4	SP	23	151	2.404	0.767	4.385
23449	1/17	28	22	83	31	27.8	18.9	SP	10	115	1.920	0.834	1.897
23450	1/17	28	23	83	42	31.5	15.6	SP	12	1,572	1.724	0.694	1.495
23451	1/17	28	23	83	46	33.4	15.6	-	13	1,236	1.317	0.514	1.685

Table 1 (Continued)

Station Number	Date (1978)	N. lat.		W. long.		Depth (m)	Surface Temp. (°C)	Bottom Type	No. Spp.	No. Individ.	Fish Species		
		Deg.	Min.	Deg.	Min.						Diversity	Evenness	Richness
23452	1/17	28	23	83	50	33.4	16.1	-	11	1,201	1.384	0.577	1.410
23453	1/17	28	19	83	56	40.8	16.7	-	15	1,770	1.524	0.563	1.872
23454	1/17	28	18	84	01	38.9	16.7	SP	12	351	1.960	0.789	1.877
23455	1/17	28	21	84	11	33.4	17.2	SP	6	62	1.158	0.646	1.211
23456	1/17	28	20	84	13	44.5	17.8	H	12	40	2.043	0.822	2.982
23457	1/17	28	13	84	09	44.5	17.8	H	12	59	1.995	0.803	2.698
23458	1/17	28	08	84	03	44.5	17.8	H	7	22	1.796	0.923	1.941
23459	1/17	28	12	83	59	40.8	17.8	SP	21	123	2.019	0.663	4.102
23460	1/17	28	11	83	54	38.9	17.2	-	10	28	2.026	0.880	2.701
23461	1/17	28	02	83	45	40.8	17.2	SP	5	10,492	0.521	0.323	0.432
23462	1/17	28	02	83	51	44.5	17.2	SP	2	852	0.596	0.859	0.148
23463	1/17	27	59	83	54	44.5	17.2	SP	7	492	0.870	0.447	0.968
23464	1/17	27	58	84	11	51.9	18.3	SP	12	481	1.870	0.753	1.781
23465	1/17	27	53	84	09	50.0	17.8	H	14	394	2.101	0.796	2.175
23466	1/17	27	43	84	12	64.9	17.8	SP	21	771	2.509	0.824	3.009
23467	1/18	27	47	84	03	57.4	17.8	SP	20	438	2.482	0.828	3.124

Table 1 (Continued)

Station Number	Date (1978)	N. lat.		W. long.		Depth (m)	Surface Temp. (°C)	Bottom Type	No. Spp.	No. Individ.	Fish Species		
		Deg.	Min.	Deg.	Min.						Diversity	Evenness	Richness
23468	1/18	27	52	83	58	51.9	17.8	SP	18	910	2.326	0.805	2.495
23469	1/18	27	57	83	54	46.3	17.8	SP	16	548	1.973	0.712	2.379
23470	1/18	27	53	83	49	42.6	17.2	H	33	352	2.511	0.718	5.457
23471	1/18	27	52	83	39	38.9	17.2	-	12	734	1.086	0.437	1.667
23472	1/18	28	01	83	38	35.2	16.1	-	12	419	1.939	0.780	1.822
23473	1/18	28	05	83	37	33.4	16.1	-	10	630	1.444	0.627	1.396
23474	1/18	28	06	83	34	31.5	16.1	SP	11	221	1.742	0.727	1.852
23475	1/18	28	06	83	29	33.4	15.0	CO	12	56	1.803	0.725	2.733
23476	1/18	28	04	83	27	27.8	15.0	H	15	137	0.993	0.367	2.846
23477	1/18	28	03	83	23	25.9	15.0	SP	14	78	1.988	0.753	2.984
23478	1/18	28	03	83	19	25.9	14.4	SP	3	2,034	0.024	0.022	0.263
23479	1/18	27	59	83	18	25.9	14.4	CO	13	83	1.962	0.765	2.716
23480	1/18	28	01	83	14	22.2	14.4	H	5	17	1.365	0.848	1.412
23481	1/18	28	06	83	13	20.4	13.9	SP	9	44	1.883	0.857	2.114
23482	1/18	28	12	83	05	14.8	12.8	SP	5	78	0.693	0.431	0.918
23483	1/18	28	09	83	04	13.0	12.8	SP	8	107	1.479	0.711	1.498

Table 1 (Continued)

Station Number	Date (1978)	N. lat.	W. long.	Depth (m)	Surface	Bottom	No.	Fish Species			
		Deg. Min.	Deg. Min.		Temp. (°C)	Type	Spp.	Individ.	Diversity	Evenness	Richness
23484	1/18	28 04	83 00	14.8	11.7	-	7	236	1.279	0.657	1.098
23485	1/18	28 03	83 01	14.8	13.3	-	15	102	1.882	0.695	3.027
23486	1/18	27 59	82 59	13.0	12.8	-	15	127	2.134	0.788	2.890
23487	1/18	27 55	83 02	14.8	13.9	CO	19	121	2.580	0.876	3.753
23488	1/18	27 48	83 03	14.8	13.3	CO	15	49	2.019	0.745	3.597
23489	1/18	27 39	82 59	14.8	14.4	SP	8	411	1.463	0.703	1.163
23490	1/19	27 38	83 06	22.2	14.4	H	21	197	2.106	0.692	3.786
23491	1/19	27 41	83 10	25.9	13.9	H	12	43	1.972	0.794	2.925
23492	1/19	27 42	83 16	29.6	14.4	S	14	67	2.098	0.795	3.092
23493	1/20	27 43	83 25	35.2	16.1	-	15	328	2.021	0.746	2.417
23494	1/20	27 34	83 31	40.8	16.7	-	27	300	1.679	0.509	4.558
23495	1/20	27 27	83 24	38.9	-	-	23	257	2.093	0.667	3.965
23496	1/20	27 30	83 18	33.4	15.0	-	15	304	2.476	0.914	2.449
23497	1/21	27 31	83 14	29.6	15.0	SP	30	136	2.915	0.857	5.903
23498	1/21	27 23	83 12	33.4	15.0	-	20	71	2.578	0.861	4.457
23499	1/21	27 27	83 03	22.2	14.4	-	17	45	2.656	0.937	4.203

Table 1 (Continued)

Station Number	Date (1978)	N. lat.		W. long.		Depth (m)	Surface	Bottom	No.	No.	Fish Species			
		Deg.	Min.	Deg.	Min.						Type	Spp.	Individ.	Diversity
23500	1/21	27	23	82	58	18.5	14.4	-	13	36		2.398	0.935	3.349
23501	1/21	27	22	82	49	13.0	13.9	-	17	368		2.293	0.809	2.708
23502	1/21	27	15	82	52	16.7	15.0	-	16	39		2.449	0.883	4.094
23503	1/21	27	12	83	00	25.9	15.0	H	20	317		2.082	0.695	3.299
23504	1/21	27	17	83	01	25.9	15.0	-	20	161		2.428	0.811	3.739
23505	1/21	27	09	83	07	33.4	16.1	H	19	104		2.162	0.734	3.876
23506	1/21	27	11	83	16	40.8	16.1	H	12	257		0.551	0.222	1.982
23507	1/21	27	11	83	31	50.0	14.4	SP	9	48		1.792	0.816	2.067
23508	1/21	27	20	83	33	48.2	16.7	SP	13	18		2.447	0.954	4.152
23509	1/21	27	21	83	42	51.9	17.8	SP	10	19		1.981	0.860	3.057
23510	1/21	27	25	83	42	50.0	17.8	SP	8	16		1.808	0.869	2.525
23511	1/21	27	31	83	42	50.0	17.2	-	17	55		2.575	0.909	3.993
23512	1/21	27	31	83	45	51.9	17.8	SP	19	112		2.434	0.827	3.815
23513	1/21	27	31	84	01	64.9	17.8	H	29	276		2.499	0.742	4.982
23514	1/22	27	31	84	26	129.7	18.9	-	7	27		1.547	0.795	1.820
23515	1/22	27	32	84	37	163.1	21.7	-	8	42		1.652	0.794	1.873

Table 1 (Continued)

Station Number	Date (1978)	N. lat.		W. long.		Depth (m)	Surface Temp. (°C)	Bottom Type	No. Spp.	No. Individ.	Fish Species		
		Deg.	Min.	Deg.	Min.						Diversity	Evenness	Richness
23516	1/22	27	28	84	33	148.2	19.4	-	8	20	1.817	0.874	2.337
23517	1/22	27	23	84	29	140.8	18.9	-	10	34	1.935	0.840	2.552
23518	1/22	27	04	84	33	177.9	22.2	-	10	46	2.005	0.871	2.351
23519	1/22	27	02	84	29	176.0	21.7	H	13	57	2.070	0.807	2.968
23520	1/22	26	53	84	19	148.2	22.2	-	12	22	2.201	0.886	3.559
23521	1/22	27	01	84	02	90.8	16.7	H	13	41	2.259	0.881	3.231
23522	1/22	27	01	84	11	122.3	21.1	H	13	110	1.749	0.682	2.553
23523	1/22	27	05	84	16	133.4	21.1	-	11	111	1.324	0.552	2.123
23524	1/22	27	11	84	07	92.6	20.0	SP	16	102	2.353	0.849	3.243
23525	1/22	27	15	84	04	77.8	17.8	H	16	429	1.710	0.617	2.475
23526	1/22	27	09	83	54	72.3	18.3	SP	21	354	2.331	0.766	3.408
23527	1/22	27	08	83	48	61.1	17.8	-	20	176	2.151	0.718	3.675
23528	1/22	27	04	83	45	59.3	17.8	-	11	293	1.728	0.721	1.761
23529	1/22	26	59	83	39	61.1	18.3	-	17	663	1.760	0.621	2.463
23530	1/23	26	49	83	39	64.9	18.3	H	24	192	2.619	0.824	4.375
23531	1/23	26	55	83	29	55.6	17.8	SP	16	808	2.019	0.728	2.241

Table 1 (Continued)

Station Number	Date (1978)	N. lat.		W. long.		Depth (m)	Surface Temp. (°C)	Bottom Type	No. Spp.	No. Individ.	Fish Species		
		Deg.	Min.	Deg.	Min.						Diversity	Evenness	Richness
23532	1/23	27	01	83	29	53.7	17.2	SP	6	60	1.564	0.863	1.221
23533	1/23	26	59	83	14	46.3	17.8	SP	14	554	1.685	0.638	2.058
23534	1/23	26	53	83	16	48.2	17.8	SP	17	243	1.488	0.525	2.913
23535	1/23	26	48	83	03	40.8	17.2	SP	7	15	1.709	0.878	2.216
23536	1/23	26	47	83	53	33.4	17.2	SP	12	298	1.778	0.716	1.931
23537	1/23	26	55	82	49	27.8	16.1	CO	11	409	1.661	0.692	1.663
23538	1/23	27	01	82	46	24.1	16.1	CO	9	31	1.859	0.846	2.330
23539	1/23	27	05	82	39	18.5	17.8	H	10	25	1.889	0.820	2.796
23540	1/23	27	02	82	34	13.0	15.0	-	5	506	0.605	0.376	0.642
23541	1/23	26	53	82	32	16.7	16.7	H	9	248	1.053	0.479	1.451
23542	1/23	26	44	82	35	20.4	17.2	SP	17	96	2.139	0.755	3.505
23543	1/23	26	42	82	45	27.8	17.2	SP	19	1,072	1.233	0.419	2.580
23544	1/23	26	42	82	51	31.5	16.7	SP	17	283	1.840	0.649	2.834
23545	1/23	26	19	82	51	37.1	17.8	-	22	329	2.463	0.797	3.623
23546	1/23	26	21	82	48	33.4	17.8	SP	21	333	2.751	0.903	3.443
23547	1/24	26	19	82	43	31.5	17.8	SP	14	219	1.621	0.614	2.412

Table 1 (Continued)

Station Number	Date (1978)	N. lat.		W. long.		Depth (m)	Surface Temp. (°C)	Bottom Type	No. Spp.	No. Individ.	Fish Species		
		Deg.	Min.	Deg.	Min.						Diversity	Evenness	Richness
23548	1/24	26	18	82	33	25.9	17.2	SP	16	314	1.875	0.676	2.609
23549	1/24	26	21	82	32	24.1	17.2	-	11	236	1.547	0.645	1.830
23550	1/24	26	31	82	29	20.4	15.6	SP	15	208	1.993	0.736	2.623
23551	1/24	26	34	82	20	11.1	15.6	SP	24	693	2.494	0.785	3.516
23552	1/24	26	29	82	18	13.0	16.1	H	20	628	2.376	0.793	2.949
23553	1/24	26	24	82	18	14.8	15.6	-	18	1,160	1.771	0.613	2.409
23554	1/24	26	17	82	09	11.1	16.1	-	11	552	1.411	0.588	1.584
23555	1/24	26	09	82	07	18.5	17.2	H	5	24	0.789	0.490	1.259
23556	1/24	26	04	82	11	20.4	17.2	-	6	54	1.354	0.756	1.253
23557	1/24	26	03	82	16	20.4	17.2	-	5	43	0.590	0.366	1.063
23558	1/24	25	58	82	31	31.5	17.8	SP	5	8	1.560	0.969	1.924
23559	1/24	25	47	82	35	37.1	18.9	SP	5	10	1.505	0.935	1.737
23560	1/24	25	52	82	37	35.2	18.9	H	7	42	1.410	0.725	1.605
23561	1/24	26	07	82	42	37.1	18.9	SP	9	37	1.560	0.710	2.216
23562	1/24	26	05	82	39	33.4	18.9	SP	4	9	1.003	0.723	1.365
23563	1/24	26	11	82	41	33.4	18.3	SP	8	12	1.907	0.917	2.817

Table 1 (Continued)

Station Number	Date (1978)	N. lat.		W. long.		Depth (m)	Surface	Bottom	No.	No.	Fish Species				
		Deg.	Min.	Deg.	Min.						Type	Spp.	Individ.	Diversity	Evenness
23564	1/24	25	59	82	51	44.5	17.8	-	16	173	SP		2.387	0.861	2.911
23565	1/24	25	53	82	55	48.2	18.9	-	19	253	H		2.182	0.741	3.253
23566	1/24	26	05	82	54	44.5	18.9	-	20	302	SP		2.259	0.754	3.327
23567	1/25	26	07	83	11	55.6	18.3	H	23	449			1.661	0.530	3.602
23568	1/25	26	17	83	18	55.6	18.9	SP	16	93			2.381	0.859	3.309
23569	1/25	26	21	83	13	53.7	17.8	H	15	183			1.501	0.554	2.687
23570	1/25	26	25	83	08	48.2	18.9	-	15	866	SP		1.482	0.547	2.070
23571	1/25	26	31	83	20	53.7	18.9	SP	22	161			2.396	0.775	4.133
23572	1/25	26	31	83	31	63.0	19.4	SP	19	99			2.294	0.779	3.917
23573	1/25	26	24	83	28	59.3	18.9	SP	19	65			2.392	0.812	4.312
23574	1/25	26	23	83	37	68.6	21.1	SP	16	66			2.340	0.844	3.580
23575	1/25	26	26	83	45	77.8	20.0	-	10	76			1.685	0.732	2.078
23576	1/25	26	33	83	57	120.4	18.9	-	7	43			1.347	0.692	1.595
23577	1/25	26	36	84	06	142.7	21.7	-	7	32			1.455	0.748	1.731
23578	1/26	26	13	84	19	192.7	22.2	-	8	36			1.504	0.723	1.953
23579	1/26	26	11	83	55	126.0	20.0	-	12	58			2.040	0.821	2.709

Table 1 (Continued)

Station Number	Date (1978)	N. lat.		W. long.		Depth (m)	Surface Temp. (°C)	Bottom Type	No. Spp.	No. Individ.	Fish Species		
		Deg.	Min.	Deg.	Min.						Diversity	Evenness	Richness
23580	1/26	26	11	83	40	68.6	19.4	CO	19	69	2.562	0.870	4.251
23581	1/26	25	59	83	14	59.3	18.3	-	24	119	2.616	0.823	4.813
23582	1/27	25	53	83	09	55.6	18.3	-	18	112	1.954	0.676	3.603
23583	1/27	25	43	82	59	51.9	18.3	H	19	357	1.687	0.573	3.062
23584	1/27	25	43	83	06	55.6	18.9	H	19	190	2.063	0.701	3.431
23585	1/27	25	42	83	26	66.7	20.0	SP	17	309	2.157	0.761	2.791
23586	1/27	25	42	83	30	70.4	21.1	-	6	14	1.352	0.754	1.895
23587	1/27	25	37	83	35	74.1	20.0	SP	10	23	0.968	0.854	2.870
23588	1/27	25	42	83	52	126.0	21.7	-	15	51	2.129	0.786	3.561
23589	1/27	25	28	83	56	133.4	21.7	CO	9	48	1.467	0.668	2.067
23590	1/27	25	22	84	06	148.2	23.9	-	2	37	0.124	0.179	0.277
23591	1/27	25	17	84	05	183.4	23.9	SP	3	11	0.916	0.834	0.834
23592	1/27	25	17	84	02	139.0	23.9	-	10	53	1.522	0.661	2.267
23593	1/27	25	10	84	02	139.0	23.3	SP	7	14	1.810	0.930	2.274
23594	1/27	24	54	84	01	170.5	23.9	CO	8	12	2.023	0.973	2.817
23595	1/27	24	55	83	58	126.0	22.2	H	4	4	1.386	1.000	2.164

Table 1 (Continued)

Station Number	Date (1978)	N. lat.		W. long.		Depth (m)	Surface Temp. (°C)	Bottom Type	No. Spp.	No. Individ.	Fish Species		
		Deg.	Min.	Deg.	Min.						Diversity	Evenness	Richness
23596	1/28	24	47	83	53	126.0	22.2	H	0	0	-	-	-
23597	1/28	24	51	83	49	85.2	21.7	H	4	29	0.876	0.632	0.891
23598	1/28	25	05	83	39	77.8	21.7	CO	6	49	1.182	0.660	1.285
23599	1/28	25	15	83	46	105.6	22.2	CO	4	12	1.144	0.825	1.207
23600	1/28	25	16	83	29	74.1	20.0	CO	7	7	1.946	1.000	3.083
23601	1/28	25	11	83	24	66.7	20.0	CO	5	6	1.561	0.970	2.232
23602	1/28	25	21	83	14	63.0	18.3	CO	7	13	1.845	0.948	2.339
23603	1/28	25	19	83	13	63.0	18.3	SP	5	24	0.682	0.424	1.259
23604	1/28	25	08	83	05	59.3	19.4	H	3	5	1.055	0.960	1.243
23605	1/28	25	12	82	54	51.9	20.0	SP	6	7	1.748	0.976	2.569
23606	1/28	25	16	82	42	42.6	19.4	H	13	38	2.197	0.856	3.299
23607	1/28	25	26	82	38	37.1	19.4	SP	19	118	2.382	0.809	3.773
23608	1/28	25	30	82	29	33.4	18.3	-	12	70	2.065	0.831	2.589
23609	1/28	25	41	82	24	29.6	17.8	SP	24	138	2.410	0.758	4.668
23610	1/29	25	39	82	19	27.8	17.8	SP	12	25	2.209	0.889	3.417
23611	1/29	25	28	82	17	29.6	18.3	-	9	65	1.042	0.474	1.916

Table 1 (Continued)

Station Number	Date (1978)	N. lat.		W. long.		Depth (m)	Surface Temp. (°C)	Bottom Type	No. Spp.	No. Individ.	Fish Species		
		Deg.	Min.	Deg.	Min.						Diversity	Evenness	Richness
23612	1/29	25	32	82	09	24.1	15.6	H	8	37	1.541	0.741	1.939
23613	1/29	25	40	81	58	18.5	16.7	SP	17	92	2.424	0.856	3.538
23614	1/29	25	32	81	54	16.7	17.2	-	9	15	2.119	0.964	2.954
23615	1/29	25	31	81	44	13.0	17.2	H	17	68	2.217	0.782	3.792
23616	1/29	25	27	81	39	11.1	16.1	SP	15	149	1.935	0.714	2.798
23617	1/29	25	24	81	45	13.0	16.7	H	5	16	1.401	0.871	1.443
23618	1/29	25	18	81	56	18.5	17.2	-	8	20	1.435	0.690	2.337
23619	1/29	25	08	81	54	18.5	17.2	SP	10	36	1.721	0.747	2.511
23620	1/29	25	07	81	43	16.7	14.4	H	8	32	1.598	0.768	2.020
23621	1/29	25	03	81	50	18.5	17.2	SP	10	89	1.376	0.597	2.005
23622	1/29	24	52	82	02	22.2	17.8	H	4	5	1.332	0.961	1.864
23623	1/29	24	53	82	16	25.9	17.8	-	1	1,094	0.000	-	0.000
23624	1/29	25	01	82	21	29.6	19.4	H	4	21	0.775	0.559	0.985
23625	1/29	24	58	82	26	33.4	18.3	-	5	12	1.424	0.885	1.610
23626	1/29	25	05	82	31	37.1	18.3	-	7	19	1.722	0.885	2.038
23627	1/29	25	06	82	40	44.5	18.9	SP	7	19	1.740	0.894	2.038

Table 1 (Continued)

Station Number	Date (1978)	N. lat.		W. long.		Depth (m)	Surface Temp. (°C)	Bottom Type	No. Spp.	No. Individ.	Fish Species		
		Deg.	Min.	Deg.	Min.						Diversity	Evenness	Richness
23628	1/30	24	57	82	39	40.8	14.4	H	4	6	1.330	0.959	1.674
23629	1/30	24	53	82	33	35.2	18.3	-	3	7	0.956	0.870	1.028
23630	1/30	24	48	82	41	35.2	18.9	-	3	3	1.099	1.000	1.820
23631	1/30	24	52	82	47	40.8	18.9	-	1	1	0.000	-	-
23632	1/30	24	48	82	54	44.5	19.4	H	8	85	1.433	0.689	1.576
23633	1/30	24	51	83	11	63.0	19.4	SP	14	51	1.895	0.718	3.306
23634	1/30	25	00	83	16	66.7	18.9	SP	12	20	2.346	0.944	3.672

1/ Not designated

Table 2. List of fish species caught during Oregon II Cruise 85, January 1978.

Station numbers represent occurrences of each species. Species preceded by asterisks are considered pelagic and were probably caught incidentally by the bottom trawls.

Family	Species	Station Numbers		
CARCHARHINIDAE				
	* <u>Carcharhinus acronotus</u>	23467	23572	23633
	<u>Mustelus canis</u>		23368	
	<u>M. norrisi</u>		23616	
SPHYRNIDAE				
	<u>Sphyrana tiburo</u>		23300	
SQUATINIDAE				
	<u>Squatina dumerili</u>	23367		23369
RHINOBATIDAE				
	<u>Rhinobates lentiginosus</u>	23448	23479	23488
TORPEDINIDAE				
	<u>Narcine brasiliensis</u>	23304		23310
RAJIDAE				
	<u>Raja</u> sp.	23371	23372	
	<u>R. eglanteria</u>	23300	23308	23310
				233316

Table 2 (Continued)

Family	Species	Station Numbers			
		23319	23380	23399	23409
		23431	23448	23476	23493
		23494	23497	23543	
	<u>R. garmani</u>	23517			
	<u>R. teevani</u>	23319			
	<u>R. texana</u>	23304	23310	23311	23313
		23320	23326	23376	23378
		23383	23408	23440	23453
		23470	23526	23572	
DASYATIDAE					
	<u>Dasyatis americana</u>	23412	23413	23447	23500
		23551			
	<u>D. sayi</u>	23304	23540	23541	23550
MYLIOBATIDAE					
	* <u>Rhinoptera bonasus</u>	23314	23540	23575	
MURAENIDAE					
	<u>Gymnothorax</u> sp.	23356			
	<u>G. nigromarginatus</u>	23307	23313	23332	23335
		23341	23352	23353	23354

Table 2 (Continued)

Family	Species	Station Numbers			
		23355	23358	23361	23366
		23369	23370	23371	23372
		23373	23374	23377	23378
		23379	23381	23388	23389
		23390	23394	23396	23403
		23457	23459	23465	23466
		23467	23470		
	<u>G. saxicola</u>	23513	23521	23524	23529
		23531	23566	23567	23571
		23574	23575	23576	23585
		23603	23606	23633	
NETTASTOMATIDAE					
	<u>Hoplunnis</u> sp.	23360	23370	23371	
	<u>H. macrurus</u>	23354	23355	23356	23357
		23358	23359	23372	23390
CONGRIDAE					
	Congridae sp.	23356	23357	23372	23470
	<u>Hildebrandia</u> sp.	23316	23337	23360	23448
		23459			
	<u>H. flava</u>	23359	23518		

Table 2 (Continued)

Family	Species	Station Numbers			
OPHICHTHIDAE					
	<u>Echiophis intortinctus</u>	23386	23524	23545	23607
	<u>E. punctifer</u>	23377			
	<u>Ophichthus ocellatus</u>	23352	23519	23520	23525
CLUPEIDAE					
*	<u>Alosa alabamae</u>	23412			
*	<u>Brevoortia patronus</u>	23425	23426		
*	<u>Etrumeus teres</u>	23299	23313	23349	23360
		23362	23363	23378	23382
		23384	23433	23485	23577
		23579	23605		
*	<u>Harengula jaguana</u>	23303	23304	23500	23504
		23541	23542	23543	23552
		23553	23554	23555	23556
		23557	23564	23615	23616
		23619	23620	23621	23622
		23623	23624	23625	23628
		23631			

Table 2 (Continued)

Family	Species	Station Numbers			
	* <u>Jenkinsia lamprotaenia</u>	23455	23456	23625	
	* <u>Opisthonema oglinum</u>	23618			
	* <u>Sardinella aurita</u>	23303	23305	23314	23315
		23318	23337	23339	23400
		23470	23494	23495	23506
		23531	23547	23548	23552
		23563	23600	23601	23608
		23612	23619	23622	23623
		23624	23625	23627	23628
		23629	23630	23631	23632
		23633			
ENGRAULIDAE					
	* <u>Anchoa</u> sp.	23488			
	* <u>A. hepsetus</u>	23301	23302	23303	23304
		23305	23309	23310	23445
		23504	23505	23555	23625
		23628			
	* <u>A. mitchilli</u>	23353			
	* <u>A. nasuta</u>	23632			

Table 2 (Continued)

Family	Species	Station Numbers			
ARGENTINIDAE					
	* <u>Argentina</u> sp.	23361	23370		
SYNODONTIDAE					
	<u>Saurida brasiliensis</u>	23300	23360	23361	23362
		23363	23369	23381	23382
		23383	23390	23391	23400
		23405	23427	23453	23467
		23468	23521	23524	
	<u>S. normani</u>	23353	23354	23355	23356
		23357	23358	23359	23360
		23361	23362	23363	23364
		23365	23366	23367	23368
		23369	23370	23371	23372
		23373	23374	23375	23376
		23377	23378	23379	23380
		23381	23382	23390	23513
		23515	23516	23517	23518
		23519	23520	23521	23522
		23523	23524	23525	23570
		23575	23576	23577	23578
		23579	23588	23589	23592
		23600	23609		

Table 2 (Continued)

Family	Species	Station Numbers		
	<u>Synodus</u> sp.	23348	23349	
	<u>S. foetens</u>	23297	23298	23299
		23305	23306	23314
		23318	23319	23320
		23325	23327	23339
		23382	23389	23396
		23399	23400	23401
		23407	23409	23411
		23414	23416	23417
		23428	23430	23431
		23435	23437	23438
		23445	23447	23448
		23460	23467	23468
		23470	23476	23477
		23480	23481	23483
		23490	23492	23493
		23495	23496	23497
		23503	23504	23505
		23508	23509	23510
		23528	23530	23532
		23534	23536	23537
		23539	23542	23543
				23544

Table 2 (Continued)

Family	Species	Station Numbers			
		23545	23546	23547	23548
		23549	23550	23551	23552
		23553	23556	23559	23560
		23561	23563	23564	23565
		23566	23567	23569	23572
		23573	23580	23581	23584
		23607	23608	23609	23611
		23612	23613	23614	23616
		23619	23620	23621	23629
	<u>S. intermedius</u>	23308	23316	23321	23331
		23334	23335	23336	23339
		23340	23341	23347	23348
		23351	23352	23353	23365
		23371	23372	23373	23374
		23380	23381	23382	23383
		23384	23385	23386	23387
		23388	23389	23391	23392
		23393	23394	23396	23398
		23399	23440	23443	23444
		23445	23446	23448	23449
		23450	23451	23452	23453

Table 2 (Continued)

Family	Species	Station Numbers		
		23454	23455	23456
		23459	23460	23463
		23465	23466	23467
		23469	23470	23471
		23479	23483	23488
		23496	23508	23509
		23512	23513	23515
		23522	23524	23525
		23527	23528	23529
		23534	23537	23542
		23558	23559	23560
		23564	23565	23567
		23571	23572	23573
		23575	23580	23581
		23584	23585	23587
		23589	23598	23600
		23605	23607	23609
		23612	23613	23621
		23628	23633	
	<u>S. poeyi</u>	23314	23315	23316
		23339	23360	23362
		23366	23370	23371
				23372

Table 2 (Continued)

Family	Species	Station Numbers		
		23380	23383	23396
		23466	23475	23476
		23495	23513	23516
		23567	23568	23569
		23577	23579	23580
		23589	23590	23592
		23594	23606	23627
		23630		
	<u>S. synodus</u>	23598		
	<u>Trachinocephalus myops</u>	23310	23318	23319
		23351	23352	23372
		23375	23376	23378
		23383	23384	23385
		23389	23409	23445
		23459	23491	23494
		23513	23521	23524
		23526	23529	23530
		23547	23548	23566
		23572	23574	23584
		23633	23634	
ARIIDAE				
	<u>Arius felis</u>	23301	23302	23307
				23312

Table 2 (Continued)

Family	Species	Station Numbers			
		23313	23314	23316	23332
		23335	23337	23338	23339
		23397	23407	23431	23433
		23435	23472	23475	23491
		23497	23498	23499	23500
		23501	23502	23503	23504
		23505	23542	23549	23552
		23613	23615		
	<u>Bagre marinus</u>	23309	23310		
BATRACHOIDIDAE					
	<u>Opsanus</u> sp.	23325			
	<u>O. pardus</u>	23483	23542		
	<u>Porichthys plectrodon</u>	23312	23313	23321	23340
		23394	23399	23422	23423
		23431	23444	23447	23448
		23453	23468	23470	23471
		23487	23490	23494	23495
		23607	23609	23615	23616
		23626	23632		
GOBIESOCIDAE					
	Gobiesocidae sp.	23355	23364	23372	

Table 2 (Continued)

Family	Species	Station Numbers		
LOPHIIDAE				
	<u>Lophius americanus</u>	23354	23367	23368
	<u>Lophioides</u> sp.	23360		
ANTENNARIIDAE				
	<u>Antennarius ocellatus</u>	23395	23574	
	<u>A. radiosus</u>	23356	23369	23401
		23588		23578
	* <u>Histrio histrio</u>	23312		
OGCOCEPHALIDAE				
	<u>Halieutichthys aculeatus</u>	23307	23308	23310
		23318	23319	23343
		23348	23349	23352
		23361	23366	23372
		23374	23375	23376
		23378	23380	23381
		23386	23388	23389
		23396	23457	23464
		23499	23506	23508
		23513	23514	23521
		23525	23526	23529
				23530

Table 2 (Continued)

Family	Species	Station Numbers			
		23534	23547	23566	23567
		23569	23572	23573	23580
		23581	23582	23583	23584
		23586	23588	23589	23592
		23595	23603	23633	23634
	Ogcocephalidae sp.	23571			
	<u>Ogcocephalus</u> sp.	23309	23319	23342	23343
		23344	23372	23381	23383
		23395	23396	23411	23412
		23413	23426	23444	23487
		23488	23503	23546	23578
	<u>O. cubifrons</u>	23409	23446	23447	23465
		23505			
	<u>O. nasutus</u>	23310	23320	23334	23368
		23377	23378	23405	23408
		23416	23448	23470	23485
		23486			
	<u>O. parvus</u>	23336	23406	23408	23524
		23527	23581	23634	
	<u>O. radiatus</u>	23499	23522	23551	23608
		23627			

Table 2 (Continued)

Family	Species	Station Numbers			
	<u>O. vespertilio</u>	23343	23349	23351	23372
		23585			
	<u>Zalieutes mcgintyi</u>	23354	23355	23356	23357
		23360	23361	23363	23370
		23371	23383	23384	23390
		23458	23459	23467	23468
		23470	23579	23580	
BREGMACEROTIDAE					
	<u>Bregmaceros atlanticus</u>	23361	23625		
GADIDAE					
	<u>Steindachneria argentea</u>	23360			
	<u>Urophycis</u> sp.	23298	23409	23410	23426
		23444	23446	23447	
	<u>U. cirrata</u>	23354	23360	23365	23366
		23369	23370		
	<u>U. floridana</u>	23311	23351	23353	23355
		23356	23357	23358	23359
		23360	23361	23363	23365

Table 2 (Continued)

Family	Species	Station Numbers			
		23366	23367	23368	23369
		23370	23372	23373	23374
		23377	23379	23380	23381
		23382	23383	23385	23388
		23389	23408	23465	23470
		23487	23509	23573	
	<u>U. regia</u>	23376	23466	23513	23525
		23527	23530		
MORIDAE					
	<u>Physiculus fulvus</u>	23354	23355	23357	23518
		23519	23595		
OPHIDIIDAE					
	<u>Brotula barbata</u>	23371			
	<u>Lepophidium</u> sp.	23316	23339	23340	23352
		23369	23370	23371	23372
		23373	23390	23403	23423
		23424	23425	23426	23444
		23445	23446	23447	23465
		23466	23487		
	<u>L. brevibarbe</u>	23358	23359	23368	23375

Table 2 (Continued)

Family	Species	Station Numbers			
		23376	23377	23378	23443
	<u>L. graellsii</u>	23307	23313	23354	23355
		23356	23357	23467	23468
		23469	23470	23516	23518
		23632			
	<u>L. jeurnae</u>	23353	23369	23370	23388
		23387	23495	23513	23515
		23516	23517	23527	23528
		23566			
	Ophidiidae sp.	23309	23318	23391	23392
	<u>Ophidion</u> sp.	23308	23314	23315	23316
		23404	23499	23500	23583
	<u>O. holbrooki</u>	23318	23319	23320	23321
		23322	23334	23335	23336
		23351	23376	23393	23394
		23406	23407	23427	23428
		23429	23430	23431	23444
		23447	23448	23449	23452
		23470	23471	23490	23491
		23492	23495	23497	23504

Table 2 (Continued)

Family	Species	Station Numbers		
		23512	23515	23536
		23546	23547	23548
		23551	23553	23564
		23566	23567	23573
		23582	23583	23584
		23587	23609	23610
		23628	23629	23613
	<u>O. marginatum</u>	23320	23321	23406
		23408		23407
	<u>O. welshi</u>	23316	23405	23427
		23431	23448	23470
		23492		23490
	<u>Otophidium</u> sp.	23338	23425	23426
HOLOCENTRIDAE				
	<u>Holocentridae</u> sp.	23455		
	<u>Holocentrus</u> <u>marianus</u>	23598		
	<u>H. vexillarius</u>	23515		
	<u>Myripristis</u> <u>jacobus</u>	23372		
	<u>Ostichthys</u> <u>trachypoma</u>	23516	23517	23518
		23593	23594	23595

Table 2 (Continued)

Family	Species	Station Numbers			
CAPROIDAE					
	<u>Antigonia</u> sp.	23369	23371		
	<u>A. capros</u>	23355	23358	23359	23364
		23368	23518	23520	23591
FISTULARIIDAE					
	Fistulariidae sp.	23445	23446	23488	
CENTRISCIDAE					
	<u>Macrorhamphosus scolopax</u>	23517	23519	23520	
SYNGNATHIDAE					
	<u>Hippocampus</u> sp.	23330	23352	23353	23388
		23411	23412	23466	23476
		23487			
	<u>H. erectus</u>	23347	23378	23383	23386
		23402	23414	23469	23486
		23527	23600	23601	23606
		23608	23615	23616	23617
		23618	23633	23634	
	<u>H. zosterae</u>	23329			
	Syngnathidae sp.	23318			

Table 2 (Continued)

Family	Species	Station Numbers			
	<u>Syngnathus springeri</u>	23495	23544		
SERRANIDAE					
	<u>Centropristes</u> sp.	23408			
	<u>C. oxyurus</u>	23321	23339	23340	23343
		23344	23346	23347	23351
		23352	23353	23361	23362
		23365	23366	23372	23373
		23374	23375	23376	23377
		23378	23379	23380	23381
		23382	23383	23384	23385
		23386	23387	23388	23389
		23390	23391	23392	23393
		23394	23395	23396	23397
		23398	23399	23400	23401
		23402	23429	23430	23431
		23433	23434	23440	23446
		23447	23448	23449	23451
		23452	23453	23454	23456
		23459	23460	23464	23465
		23466	23467	23468	23469
		23470	23471	23472	23473
		23474	23475	23490	23491

Table 2 (Continued)

Family	Species	Station Numbers		
		23492	23494	23495
		23498	23499	23503
		23506	23507	23508
		23510	23511	23512
		23524	23525	23526
		23528	23529	23530
		23532	23533	23534
		23546	23547	23548
		23558	23565	23566
		23568	23569	23570
		23572	23573	23574
		23580	23583	23584
		23603	23609	23610
		23300	23306	23307
	<u>C. philadelphica</u>	23309	23310	23312
		23315	23316	23318
		23343	23426	23444
	<u>C. striata</u>	23318	23319	23332
		23405	23410	23414
		23416	23423	23424
		23445		23444

Table 2 (Continued)

Family	Species	Station Numbers			
	<u>Diplectrum</u> sp.	23318	23338		
	<u>D. bivittatum</u>	23297	23298	23300	23301
		23302	23304	23309	23310
		23312	23321	23322	23422
		23424	23507	23533	23542
		23613	23632	23633	
	<u>D. formosum</u>	23299	23300	23305	23306
		23309	23310	23313	23314
		23315	23316	23319	23323
		23324	23325	23330	23331
		23332	23333	23334	23335
		23336	23337	23339	23340
		23343	23344	23345	23377
		23379	23381	23382	23383
		23390	23392	23394	23395
		23396	23397	23398	23399
		23400	23401	23402	23403
		23404	23406	23407	23409
		23410	23411	23413	23414
		23415	23417	23418	23423
		23425	23426	23427	23429
		23430	23431	23432	23433

Table 2 (Continued)

Family	Species	Station Numbers		
		23435	23438	23439
		23441	23443	23444
		23446	23447	23448
		23450	23453	23454
		23457	23458	23459
		23463	23465	23467
		23469	23470	23471
		23473	23474	23475
		23477	23479	23480
		23483	23485	23486
		23488	23489	23490
		23492	23493	23494
		23496	23497	23498
		23500	23501	23502
		23504	23502	23506
		23511	23513	23525
		23529	23530	23531
		23535	23536	23538
		23540	23541	23543
		23545	23546	23547
		23549	23550	23551
		23553	23554	23555
		23557	23558	23559
				23560

Table 2 (Continued)

Family	Species	Station Numbers			
		23562	23563	23564	23565
		23566	23567	23568	23570
		23571	23572	23573	23574
		23581	23583	23584	23585
		23600	23602	23605	23606
		23607	23608	23609	23610
		23611	23612	23614	23615
		23616	23618	23619	23620
		23621	23622	23624	23625
		23626	23627	23628	23629
		23630	23633	23634	
	<u>Epinephelus</u> sp.	23436	23439		
	<u>E. morio</u>	23507	23560		
	<u>Hemanthias</u> sp.	23591			
	<u>H. vivanus</u>	23590	23591	23592	23593
		23594			
	<u>Hypoplectrus</u> sp.	23565			
	<u>Liopropoma</u> sp.	23598			
	<u>Mycteroperca bonaci</u>	23461	23583		

Table 2 (Continued)

Family	Species	Station Numbers			
	<u>M. microlepis</u>	23477			
	<u>Pikea mexicana</u>	23355	23360	23362	23363
		23366	23369	23370	23371
	<u>Schultzea beta</u>	23597			
	<u>Serraniculus pumilio</u>	23625			
	Serranidae sp.	23356			
	<u>Serranus</u> sp.	23318	23448		
	<u>S. notospilus</u>	23518	23519	23579	23580
		23581	23587	23588	23592
		23593			
	<u>S. phoebe</u>	23334	23346	23354	23355
		23356	23357	23360	23361
		23362	23363	23365	23366
		23369	23372	23388	23391
		23398	23507	23508	23509
		23511	23512	23513	23523
		23526	23529	23533	23578
		23588	23598	23634	
	<u>S. tortugarum</u>	23426			

Table 2 (Continued)

Family	Species	Station Numbers			
GRAMMISTIDAE					
	<u>Rypticus bistrispinus</u>	23530	23574		
	<u>R. saponaceus</u>	23386	23444	23543	
PRIACANTHIDAE					
	<u>Priacanthus arenatus</u>	23380	23382	23454	23463
		23465	23523	23530	23537
		23566	23579	23582	23585
		23633			
	<u>P. cruentatus</u>	23361	23366	23383	23391
	<u>Pristigenys alta</u>	23316	23388	23434	23455
		23496	23497	23505	23513
		23520	23573		
APOGONIDAE					
	<u>Apogon</u> sp.	23308	23412	23449	23470
	<u>A. maculatus</u>	23597			
	<u>A. pseudomaculatus</u>	23495	23598		
	<u>Epigonus</u> sp.	23361			
MALACANTHIDAE					
	<u>Caulolatilus cyanops</u>	23361	23364	23523	23577
		23589			

Table 2 (Continued)

Family	Species	Station Numbers			
ECHENEIDAE					
	* <u>Echeneis naucrates</u>	23571			
	* <u>Remora remora</u>	23621			
CARANGIDAE					
	* <u>Caranx cryos</u>	23622			
	* <u>C. hippos</u>	23541	23616	23620	23621
	* <u>Chloroscombrus chrysurus</u>	23334	23345	23618	23619
		23621	23622	23623	
	* <u>Decapterus punctatus</u>	23314	23315	23316	23318
		23319	23337	23338	23339
		23346	23347	23348	23353
		23358	23359	23367	23384
		23389	23392	23396	23398
		23399	23400	23403	23405
		23434	23435	23437	23448
		23464	23465	23466	23468
		23470	23476	23477	23478
		23480	23489	23490	23491
		23493	23494	23495	23497
		23498	23504	23506	23507

Table 2 (Continued)

Family	Species	Station Numbers		
		23508	23513	23516
		23529	23530	23531
		23534	23535	23544
		23547	23549	23551
		23565	23566	23567
		23570	23582	23584
		23600	23606	23608
		23611	23612	23613
		23615	23617	23618
		23632	23633	23627
	<u><i>Selene setapinnis</i></u>	23303		
*	<u><i>Trachurus lathami</i></u>	23298	23299	23300
		23311	23312	23335
		23354	23355	23356
		23360	23361	23362
		23364	23365	23366
		23370	23371	23372
		23380	23381	23384
		23401	23402	23433
		23453	23461	23462
		23473	23516	23520
		23522	23523	23577
		23580	23589	23579

Table 2 (Continued)

Family	Species	Station Numbers			
LUTJANIDAE					
	<u>Etelis oculatus</u>	23591			
	<u>Lutjanus griseus</u>	23436	23506	23536	23543
		23546	23553		
	<u>L. synagris</u>	23546	23548	23553	23558
		23559	23560	23561	23562
		23563	23564	23607	23609
		23610	23621		
	<u>Pristipomoides aquilonaris</u>	23309	23312	23318	23319
		23353	23354	23355	23356
		23357	23358	23359	23360
		23361	23362	23363	23364
		23366	23367	23371	23384
		23387	23394	23516	23517
		23518	23519	23520	23522
		23523	23533	23534	23577
		23578	23588	23593	23594
	<u>Rhomboplites aurorubens</u>	23308	23315	23316	23339
		23340	23345	23346	23347
		23348	23380	23382	23435
		23450	23451	23452	23459

Table 2 (Continued)

Family	Species	Station Numbers			
		23460	23461	23462	23466
		23471	23474	23493	23494
		23495	23496	23506	23507
		23511	23512	23513	23526
		23529	23530	23559	23564
		23565	23567	23569	23570
		23571	23582	23583	23584
		23588	23594	23597	23607
		23608	23609	23632	
GERREIDAE					
	<u>Eucinostomus argenteus</u>	23301	23304	23309	23314
		23339	23431	23447	23477
	<u>E. gula</u>	23300	23310	23315	23336
		23400	23401	23402	23433
		23447	23476	23494	23495
		23497	23501	23502	23503
		23506	23536	23539	23542
		23543	23546	23550	23551
		23552	23553	23554	23555
		23556	23557	23611	23612
		23613	23614	23615	23616
		23617	23618	23619	23620
		23621	23622	23632	

Table 2 (Continued)

Family	Species	Station Numbers		
HAEMULIDAE				
	<u>Haemulon</u> sp.	23392	23426	23434
	<u>H. aurolineatum</u>	23308	23312	23313
		23315	23316	23318
		23334	23335	23338
		23343	23377	23378
		23387	23388	23389
		23392	23393	23394
		23398	23399	23403
		23405	23406	23407
		23429	23430	23431
		23444	23445	23447
		23450	23451	23452
		23461	23462	23464
		23466	23468	23469
		23471	23472	23473
		23475	23478	23479
		23490	23493	23494
		23498	23499	23503
		23505	23506	23512
		23526	23527	23529
		23531	23532	23533
				23534

Table 2 (Continued)

Family	Species	Station Numbers			
		23535	23536	23542	23543
		23544	23545	23546	23548
		23549	23550	23551	23552
		23553	23554	23555	23564
		23565	23566	23567	23568
		23569	23570	23571	23573
		23581	23582	23583	23584
		23607	23608	23609	23610
		23615	23620	23630	23632
	<u>H. plumieri</u>	23320	23322	23323	23335
		23403	23407	23409	23410
		23416	23417	23418	23423
		23426	23428	23444	23445
		23446	23447	23477	23479
		23484	23485	23501	23511
		23539	23551	23552	23553
		23615	23618	23619	23621
	<u>H. striatum</u>	23597	23598	23600	
	<u>Orthopristis chrysoptera</u>	23330	23301	23302	23303
		23304	23305	23306	23309
		23310	23312	23313	23314

Table 2 (Continued)

Family	Species	Station Numbers		
		23315	23316	23318
		23337	23339	23340
		23398	23400	23401
		23403	23412	23417
		23422	23423	23424
		23432	23433	23435
		23441	23444	23445
		23448	23449	23450
		23452	23453	23454
		23472	23473	23474
		23476	23477	23479
		23484	23485	23486
		23488	23489	23490
		23493	23494	23495
		23497	23498	23499
		23501	23502	23503
		23505	23506	23507
		23532	23536	23537
		23541	23542	23543
		23546	23548	23550
		23552	23553	23554
		23557	23611	23613
				23614

Table 2 (Continued)

Family	Species	Station Numbers			
		23615	23617	23619	23620
		23621	23622		
INERMIIDAE					
	<u>Inermia vittata</u>	23597	23598		
SPARIDAE					
	<u>Calamus</u> sp.	23416			
	<u>C. arctifrons</u>	23328	23329	23409	23412
		23414	23416	23417	23423
		23424	23425	23428	23437
		23444	23445	23446	23447
		23482	23483	23484	23485
		23486	23487	23488	23490
		23492	23615		
	<u>C. bajonado</u>	23315	23320	23321	23322
		23323	23324	23326	23334
		23335	23336	23337	23338
		23339	23340	23393	23404
		23421	23422	23426	23427
		23432	23454	23455	23460
		23471	23472	23473	23480
		23481	23492	23511	

Table 2 (Continued)

Family	Species	Station Numbers			
	<u>C. calamus</u>	23564			
	<u>C. leucosteus</u>	23616			
	<u>C. penna</u>	23450	23460	23470	23496
		23497	23498	23505	23537
		23538	23539	23544	23545
		23546	23547	23551	23553
		23556	23560	23561	23563
		23564	23565	23582	23584
		23585	23587	23609	23610
		23613	23614	23615	23616
		23619	23621		
	<u>C. proridens</u>	23325	23330	23340	23341
		23387	23391	23393	23400
		23403	23404	23407	23427
		23430	23435	23437	23438
		23440	23441	23443	23444
		23445	23446	23447	23448
		23449	23451	23452	23453
		23470	23474	23475	23476
		23477	23478	23479	23481
		23488	23490	23503	23504
		23535	23613		

Table 2 (Continued)

Family	Species	Station Numbers		
	<u>Lagodon rhomboides</u>	23299	23301	23302
		23306	23307	23309
		23313	23314	23315
		23354	23355	23360
		23362	23365	23372
		23375	23376	23377
		23379	23380	23381
		23383	23387	23388
		23390	23392	23397
		23399	23400	23401
		23420	23421	23422
		23426	23433	23441
		23451	23456	23459
		23467	23472	23485
		23490	23491	23493
		23495	23501	23502
		23506	23507	23511
		23514	23531	23533
		23536	23537	23540
		23542	23544	23545
		23549	23550	23551
		23553	23554	23563
				23581

Table 2 (Continued)

Family	Species	Station Numbers			
		23583	23603	23606	23607
		23609	23611	23612	23615
		23616	23618	23619	23621
		23623	23624	23625	23632
	<u>Pagrus pagrus</u>	23308	23345	23346	23348
		23365	23371	23372	23391
		23400	23460	23520	23544
		23579			
	Sparidae sp.	23438	23439		
	<u>Stenotomus caprinus</u>	23323	23353	23378	23381
		23399	23406		
SCIAENIDAE					
	<u>Bairdiella chrysoura</u>	23301	23302	23310	23418
		23420	23421	23422	23484
		23486	23487	23488	23489
		23490	23501	23502	23551
		23552	23554		
	<u>Cynoscion arenarius</u>	23301	23302	23309	23310
		23313	23316	23422	23423
		23485	23486	23487	23489

Table 2 (Continued)

Family	Species	Station Numbers			
		23497	23499	23500	23501
		23502	23503	23504	23541
		23551	23552	23554	
	<u>C. nebulosus</u>	23413	23414	23422	23484
		23486	23487		
	<u>C. nothus</u>	23311	23421		
	<u>Equetus</u> sp.	23494			
	<u>E. acuminatus</u>	23310	23315	23334	23335
		23339	23340	23387	23393
		23404	23423	23450	23453
		23454	23503		
	<u>E. lanceolatus</u>	23308	23314	23335	23336
		23339	23392	23394	23396
		23398	23404	23434	23446
		23450	23459	23474	23479
		23496	23497	23503	23535
		23537	23542	23543	23545
		23550	23563	23605	
	<u>E. umbrosus</u>	23505	23558		

Table 2 (Continued)

Family	Species	Station Numbers			
	<u>Leiostomus xanthurus</u>	23301	23302	23303	23304
		23305	23309	23310	23313
		23314	23315	23316	23353
		23377	23378	23398	23399
		23400	23402	23421	23422
		23423	23433	23472	23473
		23493	23497	23501	23502
		23503	23504	23541	23551
		23552	23554		
	<u>Menticirrhus americanus</u>	23301	23302	23304	23310
		23421	23422	23486	23500
		23501	23502	23552	
	<u>M. littoralis</u>	23424			
	<u>Micropogonias undulatus</u>	23301	23302	23310	23399
		23400	23412		
	<u>Odontoscion dentex</u>	23423	23445		
	<u>Stellifer lanceolatus</u>	23301			
MULLIDAE					
	<u>Mullus auratus</u>	23347	23349	23352	23353

Table 2 (Continued)

Family	Species	Station Numbers		
		23354	23355	23356
		23363	23364	23365
		23369	23370	23372
		23380	23381	23382
		23399	23466	23467
		23508	23511	23520
		23522	23523	23524
		23526	23527	23529
		23543	23571	23575
		23577	23579	23581
		23601	23602	23603
		23604		
	<u>Pseudupeneus maculatus</u>	23488	23542	23597
	<u>Upeneus parvus</u>	23359	23367	23368
		23385	23386	23387
EPHIPPIDAE				
	<u>Chaetodipterus faber</u>	23418	23500	23540
CHAETODONTIDAE				
	<u>Chaetodon</u> sp.	23366	23386	
	<u>C. aya</u>	23353	23598	

Table 2 (Continued)

Family	Species	Station Numbers			
	<u>C. capistratus</u>	23308	23340		
	<u>C. ocellatus</u>	23346	23398	233496	23508
		23512	23534	23542	
	<u>C. sedentarius</u>	23587			
	<u>C. striatus</u>	23477			
POMACANTHIDAE					
	<u>Holacanthus bermudensis</u>	23403	23434	23435	23454
		23455	23512		
	<u>H. ciliaris</u>	23387	23507		
	<u>Pomacanthus arcuatus</u>	23544	23553	23607	
POMACENTRIDAE					
	<u>Chromis</u> sp.	23597			
	<u>C. enchyrsurus</u>	23346	23388	23507	23512
		23513	23597	23598	
LABRIDAE					
	<u>Bodianus pulchellus</u>	23597			
	<u>Decodon puellaris</u>	23354	23357	23360	23361

Table 2 (Continued)

Family	Species	Station Numbers		
		23364	23366	23371
	<u>Halichoeres</u> sp.	23424	23426	23446 23539
	<u>Hemipteronotus novacula</u>	23309	23310	23319 23396
		23403		
	<u>Lachnolaimus maximus</u>	23446	23488	23539 23616
SCARIDAE				
	<u>Nicholsina usta</u>	23496	23537	23542 23543
		23544	23551	23552 23563
		23582	23613	23614 23616
		23620	23625	
	<u>Scarus</u> sp.	23448		
	<u>Sparisoma chrysopterum</u>	23316		
SPHYRAENIDAE				
	<u>Sphyraena guachancho</u>	23331		
POLYNEMIDAE				
	<u>Polydactylus octonemus</u>	23304		
OPISTOGNATHIDAE				
	<u>Opistognathus</u> sp.	23370	23551	23615

Table 2 (Continued)

Family	Species	Station Numbers			
PERCOPHIDAE					
	<u>Bembrops anatirostris</u>	23354	23355	23356	23357
		23360	23361	23362	23363
		23364			
	<u>B. gobiooides</u>	23358	23359	23366	23367
		23368			
URANOSCOPIDAE					
	<u>Astroscopus y-graecum</u>	23351	23376	23377	23378
		23387			
	<u>Kathetostoma alboguttata</u>	23348	23352	23361	23362
		23365	23370	23372	23373
		23374	23383	23388	23437
		23501	23522	23523	23525
		23526	23527	23574	23585
BLENNIIDAE					
	Blenniidae sp.	23409	23439		
CALLIONYMIDAE					
	<u>Callionymus agassizi</u>	23367	23519		
SCOMBRIDAE					
	* <u>Scomber japonicus</u>	23362	23364	23426	23577

Table 2 (Continued)

Family	Species	Station Numbers			
	* <u>Scomberomorus maculatus</u>	23619			
STROMATEIDAE					
	* <u>Ariommata</u> sp.	23360			
	* <u>Peprilus paru</u>	23304	23310		
	* <u>Peprilus triacanthus</u>	23397	23298	23299	23300
		23301	23303	23304	23311
		23312	23354	23355	23358
		23360	23361	23366	23414
		23418	23483		
SCORPAENIDAE					
	<u>Helicolenus</u> sp.	23371			
	<u>H. dactylopterus</u>	23349			
	<u>Pontinus longispinis</u>	23358	23359	23360	23516
		23517	23594		
	<u>P. rathbuni</u>	23512	23523		
	<u>Scorpaena</u> sp.	23352	23364	23366	23389
		23409	23429	23431	23434
		23446	23447	23476	23477
		23578			

Table 2 (Continued)

Family	Species	Station Numbers		
	<u>S. agassizi</u>	23308	23314	23315
		23340	23353	23354
		23356	23357	23360
		23362	23363	23364
		23367	23368	23369
		23371	23372	23373
		23375	23376	23377
		23379	23381	23382
		23388	23389	23448
		23453	23463	23464
		23466	23467	23468
		23470	23486	23518
		23521	23522	23523
		23525	23530	23579
		23581	23587	23588
		23594	23599	
	<u>S. brasiliensis</u>	23306	23308	23309
		23316	23318	23322
		23335	23336	23339
		23341	23342	23343
		23351	23352	23353
		23381	23382	23385
				23386

Table 2 (Continued)

Family	Species	Station Numbers		
		23387	23388	23389
		23395	23423	23424
		23426	23444	23445
		23449	23464	23465
		23468	23470	23475
		23497	23505	23508
		23513	23525	23526
		23528	23530	23541
		23544	23550	23551
		23553	23561	23564
		23567	23568	23569
		23572	23573	23574
		23581	23582	23584
		23586	23607	23610
		23633		
	<u>S. calcarata</u>	23306	23307	23309
		23316	23318	23319
		23372	23392	23394
		23426	23427	23429
		23443	23444	23445
		23452	23454	23458
		23471	23473	23474
				23490

Table 2 (Continued)

Family	Species	Station Numbers		
		23491	23492	23493
		23495	23496	23497
		23499	23504	23505
		23511	23512	23513
		23515	23526	23527
		23530	23531	23532
		23534	23543	23544
		23546	23547	23548
		23564	23565	23566
		23568	23569	23570
		23572	23573	23574
		23583	23584	23589
		23607	23608	23609
		23634		
	<u>S. dispar</u>	23372	23526	23580
TRIGLIDAE				
	<u>Bellator egretta</u>	23519	23580	23592
		23594	23595	
	<u>B. militaris</u>	23308	23343	23351
		23366	23372	23373
		23375	23376	23377
				23378

Table 2 (Continued)

Family	Species	Station Numbers		
		23379	23380	23381
		23383	23386	23387
		23389	23390	23457
		23466	23467	23468
		23470	23494	23497
		23499	23512	23513
		23515	23517	23521
		23526	23528	23529
		23531	23533	23534
		23565	23567	23568
		23571	23572	23578
		23582	23583	23584
		23589		23585
	<u>Peristedion ecuadorensis</u>	23360	23361	23363
	<u>P. gracile</u>	23353	23354	23355
		23357	23358	23360
		23364	23365	23366
		23368		23367
	<u>P. miniatum</u>	23359	23364	23365
		23368		23367

Table 2 (Continued)

Family	Species	Station Numbers			
	<u>Prionotus</u> sp.	23297	23298	23299	23301
		23351	23365	23424	23445
		23446	23487	23624	
	<u>P. alatus</u>	23359	23366	23367	23368
		23369	23370	23371	23374
		23375	23376	23380	23382
		23385	23387	23388	23457
		23513	23519	23520	23521
		23522	23523	23524	23574
		23575	23579	23580	23588
		23601	23634		
	<u>P. ophryas</u>	23346	23379	23382	23391
		23459	23466	23470	23494
		23495	23512	23513	23530
		23546	23567	23568	23571
		23581	23585	23609	
	<u>P. paralatus</u>	23353	23354	23355	23356
		23357	23360	23363	23365
		23372	23386	23391	23458
		23459	23467	23469	23531

Table 2 (Continued)

Family	Species	Station Numbers		
<u>P. roseus</u>	23308	23343	23344	23352
	23380	23381	23382	23383
	23384	23388	23389	23390
	23392	23396	23399	23400
	23456	23457	23464	23466
	23467	23497	23509	23510
	23512	23513	23514	23525
	23526	23527	23528	23530
	23531	23545	23546	23564
	23565	23566	23569	23570
	23571	23572	23573	23574
	23580	23581	23582	23583
	23609	23633		
<u>P. salmonicolor</u>	23306	23377	23378	23380
	23427	23430	23431	23496
	23504	23512	23536	23543
	23545	23548	23569	23585
	23625			
<u>P. scitulus</u>	23297	23298	23309	23311
	23313	23314	23318	23320
	23339	23341	23399	23400

Table 2 (Continued)

Family	Species	Station Numbers		
		23402	23405	23408
		23423	23424	23443
		23447	23451	23467
		23471	23472	23473
		23486	23487	23489
		23491	23492	23493
		23495	23496	23497
		23499	23500	23501
		23503	23504	23505
		23534	23539	23540
		23542	23543	23544
		23546	23547	23550
		23552	23553	23554
		23566	23568	23571
		23613	23615	23616
	<u>P. stearnsi</u>	23354	23355	23358
		23361	23362	23363
		23367	23370	23377
		23380	23381	23510
		23515	23518	23519
		23532	23548	23549
		23577	23588	23592

Table 2 (Continued)

Family	Species	Station Numbers			
	<u>P. tribulus</u>	23304			
BOTHIDAE					
	<u>Ancylopsetta</u> sp.	23369	23467		
	<u>A. dilecta</u>	23359	23360	23361	23362
		23363	23366	23367	23368
		23369	23370	23499	23500
		23517	23519	23524	23549
		23576	23578		
	<u>A. quadrocellata</u>	23298	23300	23396	23426
		23502	23511		
	<u>Bothus</u> sp.	23310	23448	23459	23469
		23470			
	<u>B. ocellatus</u>	23308	23339	23343	23389
		23457			
	<u>B. robinsi</u>	23493	23494	23495	23497
		23498	23499	23501	23504
		23507	23509	23510	23511
		23513	23514	23531	23533
		23534	23545	23546	23550

Table 2 (Continued)

Family	Species	Station Numbers			
		23564	23565	23566	23567
		23568	23569	23570	23571
		23581	23582	23583	23602
		23604	23605	23606	23607
		23608	23609	23620	
	<u>Citharichthys cornutus</u>	23353	23354	23360	23361
		23363	23369	23370	23371
		23380	23516	23517	23518
		23519	23520	23521	23522
		23523	23526	23579	23588
		23592	23593		
	<u>C. dinoceros</u>	23519			
	<u>C. macrops</u>	23298	23318	23319	23335
		23355	23356	23357	23378
		23394	23406	23411	23427
		23429	23431	23448	23450
		23451	23458	23463	23493
		23553	23613	23615	
	<u>Cyclopsetta chittendeni</u>	23308	23353	23402	23453
	<u>C. fimbriata</u>	23381	23382	23395	23396

Table 2 (Continued)

Family	Species	Station Numbers			
		23470	23531		
	<u>Etropus</u> sp.	23380	23382	23388	23389
		23396	23403	23456	23535
		23606	23607		
	<u>E. crossotus</u>	23330	23303	23304	23309
		23310	23314	23338	23390
		23390	23392	23398	23399
		23400	23405	23430	23457
		23458	23459	23468	23469
		23470	23495	23497	23498
		23501	23511	23531	23547
		23552	23567	23569	23570
		23572	23582	23583	23584
		23626			
	<u>E. rimosus</u>	23494	23512	23542	23545
		23565	23566	23608	23609
		23627			
	<u>Gastropsetta frontalis</u>	23353	23389	23574	23580
		23587			
	<u>Paralichthys alboguttata</u>	23298	23300	23306	23310

Table 2 (Continued)

Family	Species	Station Numbers			
		23313	23323	23326	23400
		23403	23409	23412	23413
		23427	23447	23461	23476
		23486	23487	23489	23490
		23501	23503	23504	23551
		23552			
	<u>P. lethostigma</u>	23310	23316	23472	23485
		23505			
	<u>P. squamilentus</u>	23354	23359		
	<u>Syacium</u> sp.	23372	23373	23381	23382
		23383	23389	23390	23391
		23399	23400	23405	23423
		23434	23446	23470	23476
		23477	23487	23488	
	<u>S. gunteri</u>	23387			
	<u>S. micrurum</u>	23464	23465	23466	23467
		23468			
	<u>S. papillosum</u>	23298	23300	23304	23305
		23308	23309	23310	23311

Table 2 (Continued)

Family	Species	Station Numbers		
		23312	23314	23318
		23339	23340	23342
		23344	23351	23352
		23354	23355	23360
		23364	23365	23366
		23368	23370	23371
		23375	23376	23377
		23379	23380	23381
		23384	23385	23386
		23388	23389	23392
		23395	23396	23398
		23424	23425	23426
		23445	23447	23451
		23454	23455	23456
		23460	23461	23463
		23465	23466	23467
		23469	23472	23473
		23490	23492	23493
		23495	23497	23498
		23502	23503	23504
		23508	23509	23510
		23512	23513	23515
				23517

Table 2 (Continued)

Family	Species	Station Numbers		
		23519	23521	23522
		23524	23525	23526
		23528	23529	23530
		23533	23534	23545
		23548	23549	23550
		23564	23565	23566
		23568	23569	23570
		23572	23573	23574
		23576	23579	23580
		23582	23584	23585
		23587	23588	23599
		23605	23606	23607
		23609	23610	23611
		23625	23626	23627
		23632	23633	23634
	<u>Trichopsetta ventralis</u>	23354	23360	23361
SOLEIDAE				
	<u>Achirus lineatus</u>	23615		
	<u>Gymnachirus</u> sp.	23426	23465	
	<u>G. melas</u>	23353		

Table 2 (Continued)

Family	Species	Station Numbers			
	<u>G. texae</u>	23390	23448	23494	23497
		23498	23502	23527	23533
CYNOGLOSSIDAE					
	<u>Syphurus</u> sp.	23301	23308	23310	23423
		23571			
	<u>S. civitatus</u>	23301			
	<u>S. diomedianus</u>	23310	23354	23380	23389
		23390	23456	23466	23467
		23468	23470	23529	23530
		23534	23535	23565	23566
		23567	23568	23569	23573
		23574	23581	23583	23607
		23609	23613	23627	
	<u>S. plagiusa</u>	23300	23301	23309	23615
		23619			
	<u>S. urospilus</u>	23505	23624		
TRIACANTHODIDAE					
	<u>Parahollardia</u> <u>lineata</u>		23579		
BALISTIDAE					
	<u>Aluterus</u> <u>heudeloti</u>	23538	23567	23606	

Table 2 (Continued)

Family	Species	Station Numbers			
	<u>A. schoepfi</u>	23305	23306	23307	23312
		23313	23319	23321	23322
		23324	23326	23328	23332
		23333	23334	23335	23336
		23340	23341	23344	23345
		23346	23387	23393	23394
		23401	23402	23403	23406
		23409	23422	23426	23431
		23435	23437	23438	23439
		23440	23441	23443	23445
		23446	23473	23475	23476
		23477	23479	23481	23483
		23485	23487	23490	23492
		23497	23508	23530	23531
		23537	23542	23543	23544
		23548	23551	23561	23564
		23565	23572	23573	23601
		23606	23609	23610	23612
		23622			
	<u>A. scriptus</u>	23339	23340	23395	23406
		23477	23498	23552	

Table 2 (Continued)

Family	Species	Station Numbers		
	<u>Balistes capriscus</u>	23307	23313	23320
		23339	23340	23341
		23372	23378	23382
		23392	23397	23398
		23402	23405	23430
		23438	23439	23452
		23456	23468	23476
		23482	23490	23491
		23495	23496	23498
		23503	23504	23505
		23513	23537	23538
		23545	23562	23571
		23582	23611	
	Balistidae sp.	23326	23412	23413
		23469	23581	
	<u>Monacanthus ciliatus</u>	23310	23319	23343
		23352	23353	23354
		23374	23376	23377
		23379	23380	23381
		23384	23385	23386
		23388	23389	23390
				23391

Table 2 (Continued)

Family	Species	Station Numbers		
		23395	23396	23406
		23411	23424	23425
		23428	23429	23431
		23444	23445	23448
		23464	23466	23467
		23474	23475	23497
		23505	23524	23526
		23528	23529	23530
		23535	23536	23545
		23552	23554	23557
		23568	23570	23572
		23574	23575	23577
		23581	23582	23583
		23586	23587	23589
		23598	23601	23604
		23614	23615	23616
		23618	23619	23621
		23634		
	<u>M. hispidus</u>	23308	23310	23315
		23319	23325	23326
		23331	23333	23335
				23336

Table 2 (Continued)

Family	Species	Station Numbers		
		23339	23340	23341
		23345	23351	23352
		23354	23356	23375
		23377	23378	23381
		23386	23387	23388
		23390	23392	23393
		23396	23398	23400
		23404	23406	23408
		23411	23418	23422
		23429	23430	23431
		23444	23445	23446
		23448	23451	23452
		23459	23460	23461
		23465	23466	23467
		23469	23470	23474
		23476	23477	23478
		23481	23482	23485
		23488	23490	23491
		23493	23494	23495
		23497	23498	23499
		23502	23503	23504
		23506	23511	23513
				23514

Table 2 (Continued)

Family	Species	Station Numbers			
		23525	23526	23527	23528
		23529	23530	23531	23534
		23536	23537	23538	23539
		23543	23544	23545	23546
		23547	23548	23550	23551
		23553	23561	23563	23566
		23567	23568	23569	23570
		23571	23572	23573	23574
		23575	23580	23581	23582
		23583	23584	23585	23586
		23587	23588	23602	23607
		23609	23616	23624	23633
		23634			
	<u>Xanthichthys ringens</u>	23329			
OSTRACIIDAE					
	<u>Lactophrys</u> sp.	23530	23541	23548	23580
	<u>L.</u> <u>polygonia</u>	23583			
	<u>L.</u> <u>quadricornis</u>	23330	23306	23313	23316
		23318	23319	23320	23321
		23322	23323	23324	23325

Table 2 (Continued)

Family	Species	Station Numbers		
		23326	23327	23329
		23334	23335	23336
		23340	23341	23393
		23400	23402	23404
		23406	23407	23408
		23410	23411	23412
		23416	23417	23418
		23421	23422	23423
		23425	23426	23427
		23429	23430	23431
		23436	23437	23438
		23440	23441	23443
		23445	23446	23447
		23449	23451	23453
		23470	23475	23476
		23479	23480	23481
		23483	23484	23485
		23488	23489	23490
		23492	23494	23495
		23498	23499	23500
		23502	23503	23504
		23508	23509	23527
				23536

Table 2 (Continued)

Family	Species	Station Numbers		
		23538	23539	23542
		23546	23547	23549
		23551	23552	23553
		23555	23556	23557
		23560	23562	23564
		23566	23567	23571
		23573	23581	23584
		23600	23605	23606
		23608	23609	23610
		23613	23614	23615
		23617	23618	23619
TETRAODONTIDAE				
	<u>Lagocephalus</u> sp.	23363		
	<u>L.</u> <u>laevigatus</u>	23341	23433	
	<u>Sphoeroides</u> sp.	23318	23550	
	<u>S.</u> <u>dorsalis</u>	23342	23343	23351
		23354	23365	23366
		23372	23373	23375
		23378	23379	23380
		23382	23383	23385
				23386

Table 2 (Continued)

Family	Species	Station Numbers		
		23387	23389	23390
		23392	23393	23394
		23396	23400	23401
		23408	23450	23451
		23453	23454	23456
		23458	23459	23463
		23471	23472	23474
		23495	23497	23506
		23511	23512	23513
		23522	23524	23525
		23527	23528	23530
		23545	23560	23567
		23570	23572	23573
		23575	23579	23580
		23582	23583	23584
		23586	23587	23592
		23599	23600	23602
		23612	23633	
	<u>S. nephelus</u>	23498	23551	23571
	<u>S. parvus</u>	23322	23335	
	<u>S. spengleri</u>	23309	23310	23315
				23334

Table 2 (Continued)

Family	Species	Station Numbers		
		23336	23338	23339
		23395	23396	23398
		23400	23403	23405
		23426	23430	23431
		23448	23450	23457
		23469	23470	23477
		23487	23490	23491
		23494	23495	23497
		23504	23505	23512
		23529	23533	23543
		23545	23546	23547
		23561	23564	23565
		23570	23571	23606
		23608	23609	23610
		23614	23616	23627
DIODONTIDAE				
	<u><i>Chilomycterus schoepfi</i></u>	23308	23326	23352
		23409	23410	23411
		23414	23418	23435
		23485	23486	23497
		23503	23513	23538
		23618		23542

Table 2 (Continued)

Family	Species	Station Numbers
MOLIDAE		
	* <u>Mola mola</u>	23355

Table 3. List of selected invertebrate species caught during Oregon II

Cruise 85, January 1978. Station numbers represent occurrences of each species.

Species	Station Numbers			
Phylum: Porifera				
Porifera spp.	23300	23308	23312	23314
	23315	23316	23318	23320
	23321	23322	23323	23324
	23325	23326	23327	23330
	23331	23332	23334	23335
	23336	23337	23338	23339
	23340	23342	23343	23344
	23345	23352	23365	23372
	23380	23381	23382	23384
	23386	23387	23388	23391
	23393	23394	23395	23396
	23398	23401	23402	23403
	23404	23405	23408	23409
	23411	23412	23413	23414
	23415	23419	23420	23421
	23422	23423	23424	23425
	23426	23427	23428	23429
	23430	23431	23432	23433
	23434	23435	23436	23437

Table 3 (Continued)

Species	Station Numbers			
	23438	23439	23440	23441
	23442	23443	23444	23445
	23446	23447	23448	23449
	23450	23454	23455	23456
	23457	23459	23461	23462
	23463	23464	23466	23467
	23468	23470	23474	23475
	23476	23477	23478	23479
	23480	23481	23482	23483
	23487	23488	23489	23497
	23503	23505	23506	23507
	23508	23509	23510	23512
	23513	23519	23521	23522
	23524	23525	23526	23530
	23531	23532	23533	23534
	23535	23536	23539	53241
	23542	23543	23544	23546
	23547	23548	23550	23551
	23552	23555	23558	23559
	23560	23561	23562	23563
	23565	23567	23568	23569
	23571	23572	23573	23574
	23583	23584	23585	23587

Table 3. (Continued)

Species	Station Numbers			
	23589	23591	23593	23595
	23596	23597	23598	23603
	23604	23605	23606	23607
	23609	23610	23612	23613
	23615	23616	23617	23619
	23620	23621	23622	23624
	23627	23628	23632	23633
	23634			

Phylum: Coelenterata

Class: Anthozoa

Anthozoa spp.	23300	23330	23384	23403
	23429	23434	23435	23444
	23455	23456	23457	23458
	23459	23464	23465	23466
	23475	23476	23477	23479
	23482	23487	23488	23490
	23491	23536	23537	23538
	23539	23568	23580	23584
	23587	23589	23594	23596
	23597	23598	23599	23600
	23601	23602		

Table 3 (Continued)

Species	Station Numbers			
Gorgoniidae spp.	23325	23326	23340	23344
	23388	23396	23409	23410
	23411	23423	23424	23425
	23444	23445	23488	
Phylum: Ectoprocta (Bryozoa)				
Ectoprocta spp.	23316	23325	23326	23327
	23337	23340	23342	23344
	23380	23381	23382	23396
	23403	23412	23424	23435
	23444	23446	23455	23475
	23476	23479		
Phylum: Mollusca				
Class: Cephalopoda				
Fam.: Sepiolidae				
<u>Rossia</u> sp.	23339	23360		
Fam: Loliginidae				
Loliginidae spp.	23298	23299	23300	23314
	23315	23316	23325	23326
	23327	23337	23338	23339
	23340	23342	23343	23344
	23345	23360	23361	

Table 3 (Continued)

Species	Station Numbers			
	23362	23363	23370	23371
	23380	23381	23395	23396
	23403	23404	23409	23410
	23411	23412	23413	23425
	23426	23444	23445	23446
	23447	23455	23456	23457
	23475	23476	23477	23478
	23479	23487	23488	23489
<u>Loligo</u> sp.	23298	23301	23329	23435
	23480	23481	23482	23483
	23490	23491	23492	23494
	23561	23562	23571	23572
	23579	23585	23605	23607
	23632			
<u>L. pealei</u>	23296	23297	23300	23311
	23318	23319	23320	23321
	23323	23324	23325	23326
	23328	23330	23331	23332
	23333	23334	23335	23336
	23343	23344	23345	23346
	23347	23348	23349	23364
	23365	23366	23367	23368

Table 3 (Continued)

Species	Station Numbers		
	23379	23399	23402
	23406	23408	23414
	23416	23418	23428
	23430	23431	23439
	23443	23448	23449
	23459	23460	23465
	23470	23486	23495
	23504	23505	23506
	23511	23516	23517
	23520	23536	23538
	23544	23545	23552
	23556	23557	23563
	23568	23569	23570
	23578	23581	23584
	23588	23589	23598
	23601	23602	23603
	23606	23608	23615
	23618	23624	23625
<u>L. plei</u>	23496	23507	23510
	23522	23523	23524
	23527	23530	23538
	23541	23542	23547
			23549

Table 3 (Continued)

Species	Station Numbers			
	23550	23551	23558	23559
	23560	23567	23568	23574
	23576	23585	23592	23599
	23603	23604	23605	23631
	23634			
<u>Lolliguncula</u> sp.	23392			
<u>L.</u> <u>brevis</u>	23303	23305	23320	
Fam.: Octopodidae				
<u>Octopus</u> sp.	23318	23319	23332	23415
	23448	23459	23475	23476
	23572	23595	23604	23609
<u>O.</u> <u>vulgaris</u>	23313	23315	23339	23408
	23435	23573	23574	
Phylum: Arthropoda				
Class: Crustacea				
Order: Decapoda				
Fam.: Solenoceridae				
<u>Mesopenaeus</u> <u>tropicalis</u>	23371			
<u>Solenocera</u> sp.	23308	23309	23310	23314
	23315	23316	23338	23339

Table 3 (Continued)

Species	Station Numbers			
	23340	23352	23354	23355
	23356	23357	23369	23370
	23388	23389	23466	23494
	23495	23513	23516	23517
	23519	23528	23581	23592
	23593	23594	23596	23625
	23627	23630	23631	
Fam.: Penaeidae				
<u>Parapenaeus</u> sp.	23353	23354	23360	23361
	23362	23363	23369	23370
	23371	23431	23449	23470
<u>Penaeus aztecus</u>	23304	23309	23318	23392
	23409			
<u>P. duorarum</u>	23300	23309	23310	23311
	23312	23313	23314	23315
	23316	23319	23321	23337
	23340	23393	23394	23400
	23402	23403	23404	23405
	23406	23408	23423	23424
	23425	23426	23427	23429
	23430	23431	23444	23446
	23447	23448	23453	23458

Table 3 (Continued)

Species	Station Numbers			
	23461	23463	23468	23469
	23471	23472	23476	23483
	23486	23490	23491	23492
	23493	23494	23495	23496
	23497	23498	23499	23500
	23501	23502	23503	23504
	23505	23533	23535	23545
	23546	23547	23548	23549
	23551	23552	23554	23555
	23556	23564	23565	23570
	23583	23607	23608	23609
	23610	23611	23612	23613
	23614	23615	23616	23617
	23618	23619	23620	23621
	23622	23623	23624	23625
	23626	23627	23628	23629
	23630	23631	23632	
<u>P. setiferus</u>	23301	23302	23303	23309
	23310			
<u>Trachypenaeus</u> sp.	23310	23312	23316	23318
	23319	23325	23340	23352
	23353	23355	23356	23357

Table 3 (Continued)

Species	Station Numbers			
	23366	23372	23374	23388
	23389	23392	23395	23408
	23409	23411	23423	23424
	23425	23434	23435	23444
	23445	23446	23447	23464
	23465	23470	23488	23512
	23517	23533	23552	23614
	23615	23624		
Fam.: Sicyoniidae				
<u>Sicyonia</u> sp.	23447	23550	23565	
<u>S. brevirostris</u>	23297	23298	23304	23306
	23307	23308	23309	23310
	23311	23312	23313	23314
	23315	23316	23318	23319
	23337	23339	23355	23372
	23373	23374	23376	23381
	23382	23387	23388	23389
	23390	23391	23392	23393
	23394	23396	23400	23401
	23402	23403	23405	23406
	23409	23411	23426	23430
	23431	23448	23456	23458

Table 3 (Continued)

Species	Station Numbers			
	23464	23465	23466	23467
	23468	23469	23470	23471
	23472	23492	23493	23494
	23495	23496	23497	23498
	23499	23503	23505	23513
	23514	23521	23526	23527
	23528	23529	23530	23531
	23533	23534	23535	23543
	23544	23545	23546	23547
	23550	23564	23565	23566
	23567	23568	23569	23570
	23581	23582	23583	23584
	23607	23608	23609	23610
	23611	23624	23625	23626
	23627	23628	23629	23630
	23631	23632	23633	23634
<u>S. dorsalis</u>	23309	23357	23493	23504
	23623	23624	23625	23630
	23632			
<u>S. stimpsoni</u>	23371			
Fam.: Alpheidae				
Alpheidae sp.	23435	23445		

Table 3 (Continued)

Species	Station Numbers			
Fam.: Axiidae				
Axiidae sp.	23371			
Fam.: Nephropidae				
<u>Nephropsis</u> sp.	23357			
Fam.: Scyllaridae				
<u>Scyllarides</u> sp.	23338	23340	23349	23374
	23383	23390	23392	23403
	23469	23470	23550	
<u>S. aequinoctialis</u>	23307			
<u>S. nodifer</u>	23306	23323	23391	23393
	23429	23433	23438	23451
	23453	23459	23460	23469
	23470	23471	23494	23496
	23503	23512	23513	23528
	23537	23538	23543	23546
	23548	23572	23580	23585
	23587	23602		
<u>Scyllarus</u> sp.	23314	23315	23339	23340
	23389	23395	23466	23548
	23592	23598	23633	

Table 3 (Continued)

Species	Station Numbers		
<u>S. chacei</u>	23570	23580	23581
<u>S. nearctus</u>	23515	23516	23517
	23573	23588	23593
			23594
Fam.: Galatheidae			
Galatheidae sp.	23592		
<u>Munida</u> sp.	23363	23370	23381
Fam.: Porcellanidae			
Porcellanidae sp.	23300	23301	23444
Fam.: Paguridae			
Paguridae sp.	23300	23315	23344
	23371	23389	23396
	23487	23589	23593
	23601		23595
<u>Pagurus</u> sp.	23517	23518	23535
	23586	23606	23579
Fam.: Leucosiidae			
<u>Myropis quinquespinosa</u>	23517	23518	23519
Fam.: Dromiidae			

Table 3 (Continued)

Species	Station Numbers			
Dromiidae sp.	23308	23316	23505	23575
	23588	23599		
Fam.: Calappidae				
<u>Acanthocarpus alexandri</u>	23360			
<u>A. bispinosus</u>	23363			
<u>Calappa</u> sp.	23584			
<u>C. flammea</u>	23392	23467	23525	23551
<u>C. sulcata</u>	23312	23313		
<u>Hepatus</u> sp.	23403			
<u>H. epheleticus</u>	23553			
Fam.: Portunidae				
Portunidae sp.	23318	23516	23580	23581
	23586	23587	23598	23605
	23608			
<u>Callinectes rathbunae</u>	23554	23557	23565	
<u>C. similis</u>	23301	23303	23304	23430
	23485	23568		
<u>Portunus</u> sp.	23309	23314	23348	23388
	23395	23429	23447	23466
	23470	23534	23610	23612
<u>P. gibbesii</u>	23299	23309	23425	23426
	23447	23448	23468	23470

Table 3 (Continued)

Species	Station Numbers			
	23502	23503	23504	23548
	23549	23550	23551	23552
	23553	23570	23571	23606
	23607	23609	23610	23611
	23612	23613	23614	23615
	23616	23617	23621	23622
	23624	23625	23626	23627
	23632			
<u>P. sayi</u>	23302	23310	23318	23391
	23467			
<u>P. spinicarpus</u>	23297	23312	23353	23354
	23355	23356	23357	23358
	23359	23360	23361	23362
	23363	23366	23367	23368
	23369	23370	23371	23372
	23373	23374	23375	23376
	23378	23380	23387	23388
	23389	23392	23395	23401
	23402	23406	23466	23474
	23495	23500	23515	23518
	23519	23522	23523	23524
	23526	23527	23534	23535

Table 3 (Continued)

Species	Station Numbers			
	23545	23546	23580	23594
	23600	23605	23608	23627
	23628	23630	23632	23633
<u>P. spinimanus</u>	23298	23300	23314	23389
	23470	23494	23499	23516
	23517	23531	23569	23582
	23628	23629		
<u>P. ventralis</u>	23513			
Fam.: Xanthidae				
Xanthidae sp.	23343	23344	23363	23409
	23411	23412	23413	23423
	23425	23446	23526	
Fam.: Gonoplacidae				
Gonoplacidae sp.	23371			
Fam.: Grapsidae				
Grapsidae sp.	23328	23329	23372	23384
Fam.: Majidae				
Majidae spp.	23326	23339	23366	23395
	23409	23410	23411	23412
	23413	23424	23435	23444

Table 3 (Continued)

Species	Station Numbers			
	23445	23446	23466	23476
	23479	23555	23556	23557
	23594	23613	23619	
<u>Anasimus latus</u>	23361	23362	23634	
<u>Libinia</u> sp.	23370			
<u>L. emarginata</u>	23358	23359		
<u>Macrocoeloma trispinosum</u>	23542			
<u>Podochela sidneyi</u>	23503	23552	23553	23563
<u>Stenacionops</u> sp.	23573			
<u>S. furcata</u>	23511	23588		
<u>Stenorynchus seticornis</u>	23340	23447	23475	23553
	23588	23599		
Fam.: Parthenopidae				
<u>Parthenope</u> sp.	23298			
<u>P. pourtalesii</u>	23518	23519		
<u>P. serrata</u>	23556			
Order: Stomatopoda				
Fam.: Squillidae				
<u>Squillidae</u> sp.	23403	23404	23446	
<u>Squilla</u> sp.	23304	23309	23310	23318

Table 3 (Continued)

Species	Station Numbers		
	23319	23360	23371
	23374	23395	23448
	23517	23544	23547
	23594	23598	23604
	23608	23611	23612
	23624	23625	23626
	23630		23628
Phylum: Echinodermata			
Class: Crinoidea			
Crinoidea sp.	23298		
Class: Asteroidea			
Asteroidea spp.	23298	23300	23303
	23326	23337	23340
	23349	23352	23363
	23374	23381	23382
	23393	23395	23396
	23413	23414	23417
	23425	23428	23435
	23445	23446	23447
	23457	23466	23467
	23476	23477	23488
			23491

Table 3 (Continued)

Species	Station Numbers			
	23492	23498	23499	23506
	23526	23528	23537	23538
	23544	23545	23548	23549
	23573	23574	23575	23580
	23584	23587	23690	23599
	23600	23604	23605	23610
	23611	23613	23615	23616
	23622	23623	23624	23625
	23627	23628	23629	23630
	23634			
Fam.: Asteriidae				
<u>Asterias</u> sp.	23423			
Fam: Astropectinidae				
<u>Astropecten</u> sp.	23298	23300	23339	23360
	23395	23403	23404	23409
	23411	23412	23445	23477
	23479	23518		
Fam.: Goniasteridae				
<u>Goniaster americanus</u>	23315	23345		
Fam.: Luidiidae				
<u>Luidia</u> sp.	23380	23381	23395	23425

Table 3 (Continued)

Species	Station Numbers			
	23455	23465	23475	23477
	23478	23487	23502	23504
	23571	23632		
<u>Luidia clathrata</u>	23339	23409	23476	
Fam.: Oreasteridae				
<u>Oreaster reticulata</u>	23444	23614		
Class: Ophiuroidea				
Ophiuroidea spp.	23303	23339	23340	23343
	23344	23371	23380	23382
	23395	23403	23404	23426
	23445	23447	23455	23464
	23466	23477	23520	23526
	23533	23561	23586	23589
Fam.: Gorgonocephalidae				
Gorgonocephalidae spp.	23343	23344	23345	23381
	23388	23395	23403	23404
	23409	23445	23530	23559
	23596	23611		
Class: Echinoidea				
Echinoidea spp.	23300	23308	23310	23316

Table 3 (Continued)

Species	Station Numbers		
	23325	23326	23327
	23340	23342	23343
	23345	23348	23349
	23353	23379	23380
	23384	23389	23392
	23396	23403	23404
	23411	23412	23414
	23423	23425	23444
	23446	23457	23459
	23465	23468	23470
	23477	23479	23480
	23486	23487	23492
	23505	23518	23519
	23533	23542	23543
	23551	23552	23567
	23573	23574	23579
	23586	23589	23591
	23600	23605	23606
	23633		
Fam.: Scutellidae			
Scutellidae sp.	23298	23299	23300
	23381	23413	23456
			23457

Table 3 (Continued)

Species	Station Numbers			
Fam.: Arbaciidae				
<u>Arbacia</u> sp.	23498	23509	23539	23540
	23548	23549	23584	23595
		23596		
Fam.: Spatangidae				
Spatangidae sp.	23360	23447		
Fam.: Clypeasteridae				
Clypeasteridae spp.	23349	23365	23366	23373
	23374	23383	23384	23458
<u>Clypeaster</u> sp.	23371	23382	23389	23396
Class: Holothuroidea spp.				
Holothuroidea sp.	23300	23315	23330	23384
	23398	23403	23435	23444
	23448	23455	23464	23473
	23479	23487	23488	23497
	23538	23539	23543	23549
	23567	23578	23584	23604
	23605	23610	23616	
Phylum: Tunicata				
Tunicata spp.	23300	23326	23327	23328
	23330	23331	23342	23343

Table 3 (Continued)

Species	Station Numbers		
	23380	23381	23382
	23389	23405	23409
	23411	23412	23413
	23424	23426	23444
	23446	23457	23464
	23488		23479

Table 4. Depth distribution of fish catches of Oregon II Cruise 85, January 1978. Number columns represent the numbers of individuals caught in each depth zone, and the weight columns represent their weight in kilograms.

Species	Depth Zone (m)									
	9-18		19-27		28-55		56-110		111-193	
	No.	Wt.	No.	Wt.	No.	Wt.	No.	Wt.	No.	Wt.
<u>Carcharhinus acronotus</u>	0	0	0	0	0	0	5	47	0	0
<u>Mustelis canis</u>	0	0	0	0	0	0	0	0	1	*1/
<u>M. norrisi</u>	1	*	0	0	0	0	0	0	0	0
<u>Sphyrna tiburo</u>	0	0	2	1	0	0	0	0	0	0
<u>Squatina dumerili</u>	0	0	0	0	0	0	0	0	3	1
<u>Rhinobatos lentiginosus</u>	1	*	2	1	0	0	0	0	0	0
<u>Narcine brasiliensis</u>	0	0	2	*	0	0	0	0	0	0
<u>Raja</u> sp.	0	0	0	0	0	0	1	*	1	*
<u>R. eglanteria</u>	2	7	2	1	0	0	0	0	0	0
<u>R. garmani</u>	0	0	0	0	0	0	0	0	1	*
<u>R. teevani</u>	1	*	0	0	0	0	0	0	0	0
<u>R. texana</u>	3	2	7	4	3	2	16	4	0	0
<u>Dasyatis americana</u>	6	14	1	0	0	0	0	0	0	0

Table 4 (Continued)

Species	Depth Zone (m)									
	9-18		19-27		28-55		56-110		111-193	
	No.	Wt.	No.	Wt.	No.	Wt.	No.	Wt.	No.	Wt.
<u>D. sayi</u>	2	7	2	1	0	0	0	0	0	0
<u>Rhinoptera bonasus</u>	1	4	0	0	4	8	10	136	0	0
<u>Gymnothorax</u> sp.	0	0	0	0	0	0	0	0	1	*
<u>G. nigromarginatus</u>	0	0	6	*	35	2	83	8	22	3
<u>G. saxicola</u>	0	0	0	0	5	*	26	1	1	*
<u>Hoplunnis</u> sp.	0	0	0	0	0	0	0	0	7	*
<u>H. macrurus</u>	0	0	0	0	6	*	2	*	25	*
<u>Congridae</u> sp.	0	0	0	0	3	*	2	*	4	*
<u>Hildebrandia</u> sp.	0	0	8	*	1	*	0	0	1	*
<u>H. flava</u>	0	0	0	0	0	0	0	0	4	*
<u>Echiophis intertinctus</u>	0	0	0	0	3	*	2	7	0	0
<u>E. punctifer</u>	0	0	0	0	0	0	4	1	0	0
<u>Ophichthus ocellatus</u>	0	0	0	0	0	0	3	*	3	*
<u>Alosa alabamae</u>	1	*	0	0	0	0	0	0	0	0
<u>Brevoortia patronus</u>	0	0	13	*	0	0	0	0	0	0

Table 4 (Continued)

Species	Depth Zone (m)									
	9-18		19-27		28-55		56-110		111-193	
	No.	Wt.	No.	Wt.	No.	Wt.	No.	Wt.	No.	Wt.
<u>Etrumeus teres</u>	1	*	240	8	5	*	51	*	58	1
<u>Harengula jaguana</u>	1649	41	168	6	16	*	0	0	0	0
<u>Jenkinsia lamprotaenia</u>	0	0	0	0	362	1	0	0	0	0
<u>Opisthonema oglinum</u>	0	0	8	*	0	0	0	0	0	0
<u>Sardinella aurita</u>	5	*	42	*	170	1	15	*	0	0
<u>Anchoa</u> sp.	2	*	0	0	0	0	0	0	0	0
<u>A. hepsetus</u>	224	*	86	*	3	*	0	0	0	0
<u>A. mitchilli</u>	0	0	0	0	0	0	0	0	1	*
<u>A. nasuta</u>	0	0	0	0	1	*	0	0	0	0
<u>Argentina</u> sp.	0	0	0	0	0	0	0	0	8	*
<u>Saurida brasiliensis</u>	0	0	17	*	215	18	77	1	121	*
<u>S. normani</u>	0	0	0	0	29	1	300	28	562	67
<u>Synodus</u> sp.	0	0	0	0	0	0	0	0	4	*
<u>S. foetens</u>	105	9	122	12	483	55	29	3	0	0
<u>S. intermedius</u>	11	*	66	5	547	58	530	40	16	*

Table 4 (Continued)

Species	Depth Zone (m)									
	9-18		19-27		28-55		56-110		111-193	
	No.	Wt.	No.	Wt.	No.	Wt.	No.	Wt.	No.	Wt.
<u>S. poeyi</u>	0	0	8	*	48	*	18	*	89	*
<u>S. synodus</u>	0	0	0	0	0	0	1	*	0	0
<u>Trachinocephalus myops</u>	2	*	8	*	24	*	92	6	0	0
<u>Arius felis</u>	24	7	57	14	389	113	0	0	0	0
<u>Bagre marinus</u>	0	0	12	*	0	0	0	0	0	0
<u>Opsanus</u> sp.	1	*	0	0	0	0	0	0	0	0
<u>O. pardus</u>	3	*	1	*	0	0	0	0	0	0
<u>Porichthys plectrodon</u>	33	*	14	*	65	3	0	0	0	0
Gobiesocidae sp.	0	0	0	0	0	0	1	*	6	*
<u>Lophius americanus</u>	0	0	0	0	0	0	0	0	6	*
<u>Lophioides</u> sp.	0	0	0	0	0	0	0	0	3	*
<u>Antennarius ocellatus</u>	0	0	0	0	1	*	1	*	0	0
<u>A. radiosus</u>	0	0	0	0	3	*	0	0	6	*
<u>Histro histro</u>	0	0	6	*	0	0	0	0	0	0
<u>Halieutichthys aculeatus</u>	1	*	13	*	202	4	256	2	23	*

Table 4 (Continued)

Species	Depth Zone (m)									
	9-18		19-27		28-55		56-110		111-193	
	No.	Wt.	No.	Wt.	No.	Wt.	No.	Wt.	No.	Wt.
Ogcocephalidae sp.	0	0	0	0	2	*	0	0	0	0
<u>Ogcocephalus</u> sp.	16	2	13	2	27	3	5	*	2	*
<u>O. cubifrons</u>	5	1	2	*	2	1	0	0	0	0
<u>O. nasutus</u>	45	19	8	2	1	*	15	*	3	*
<u>O. parvus</u>	0	0	3	*	0	0	5	*	0	0
<u>O. radiatus</u>	1	*	1	*	2	*	0	0	1	*
<u>O. vespertilio</u>	0	0	0	0	4	*	5	*	1	*
<u>Zalieutes</u> <u>mcgintyi</u>	0	0	0	0	38	*	20	*	31	*
<u>Bregmaceros</u> <u>atlanticus</u>	0	0	0	0	1	*	0	0	1	*
<u>Steindachneria</u> <u>argentea</u>	0	0	0	0	0	0	0	0	20	*
<u>Urophycis</u> sp.	11	*	6	*	0	0	0	0	0	0
<u>U. cirrata</u>	0	0	0	0	0	0	1	*	15	1
<u>U. floridana</u>	4	*	7	*	66	5	44	2	169	23
<u>U. regia</u>	0	0	0	0	0	0	52	5	0	0
<u>Physiculus</u> <u>fulvus</u>	0	0	0	0	0	0	0	0	17	*

Table 4 (Continued)

Species	Depth Zone (m)									
	9-18		19-27		28-55		56-110		111-193	
	No.	Wt.	No.	Wt.	No.	Wt.	No.	Wt.	No.	Wt.
<u>Brotula barbata</u>	0	0	0	0	0	0	0	0	1	*
<u>Lepophidium</u> sp.	100	6	90	6	28	2	42	3	13	*
<u>L.</u> <u>brevibarbe</u>	0	0	57	6	0	0	22	*	12	*
<u>L.</u> <u>graellsi</u>	0	0	13	*	48	2	19	*	78	3
<u>L.</u> <u>jeannae</u>	0	0	0	0	20	1	13	*	66	4
Ophidiidae sp.	0	0	5	*	29	2	0	0	0	0
<u>Ophidion</u> sp.	0	0	9	1	46	2	0	0	0	0
<u>O.</u> <u>holbrooki</u>	33	2	161	12	174	18	31	1	3	*
<u>O.</u> <u>marginatum</u>	7	*	3	*	0	0	0	0	0	0
<u>O.</u> <u>welshi</u>	0	0	22	1	2	*	0	0	0	0
<u>Otophidium</u> sp.	0	0	14	5	0	0	0	0	0	0
Holocentridae sp.	0	0	0	0	1	*	0	0	0	0
<u>Holocentrus</u> <u>marianus</u>	0	0	0	0	0	0	2	*	0	0
<u>H.</u> <u>vexillarius</u>	0	0	0	0	0	0	0	0	1	*
<u>Myripristis</u> <u>jacobus</u>	0	0	0	0	0	0	1	*	0	0

Table 4 (Continued)

Species	Depth Zone (m)									
	9-18		19-27		28-55		56-110		111-193	
	No.	Wt.	No.	Wt.	No.	Wt.	No.	Wt.	No.	Wt.
<u>Ostichthys trachypoma</u>	0	0	0	0	0	0	0	0	24	*
<u>Antigonia</u> sp.	0	0	0	0	0	0	0	0	3	*
<u>A. capros</u>	0	0	0	0	0	0	0	0	30	*
<u>Fistulariidae</u> sp.	1	*	4	*	0	0	0	0	0	0
<u>Macrorhamphosus scolopax</u>	0	0	0	0	0	0	0	0	3	*
<u>Hippocampus</u> sp.	10	*	0	0	1	*	3	*	4	*
<u>H. erectus</u>	7	*	2	*	11	*	19	*	0	0
<u>H. zosterae</u>	2	*	0	0	0	0	0	0	0	0
<u>Syngnathidae</u> sp.	0	0	1	*	0	0	0	0	0	0
<u>Syngnathus</u> <u>springeri</u>	0	0	0	0	4	*	0	0	0	0
<u>Centropristes</u> sp.	0	0	9	*	0	0	0	0	0	0
<u>C. oxyurus</u>	5	*	81	*	1127	66	1321	85	41	1
<u>C. philadelphica</u>	4	*	33	*	146	7	0	0	0	0
<u>C. striata</u>	184	18	9	*	0	0	0	0	0	0
<u>Diplectrum</u> sp.	0	0	31	1	0	0	0	0	0	0

Table 4 (Continued)

Species	Depth Zone (m)									
	9-18		19-27		28-55		56-110		111-193	
	No.	Wt.	No.	Wt.	No.	Wt.	No.	Wt.	No.	Wt.
<u>D. bivittatum</u>	97	1	96	4	21	1	1	*	0	0
<u>D. formosum</u>	666	46	1949	233	1072	100	69	5	0	0
<u>Epinephelus</u> sp.	0	0	1	*	1	*	0	0	0	0
<u>E. morio</u>	0	0	0	0	2	7	0	0	0	0
<u>Hemanthias</u> sp.	0	0	0	0	0	0	0	0	2	*
<u>H. vivanus</u>	0	0	0	0	0	0	0	0	45	*
<u>Hypoplectrus</u> sp.	0	0	0	0	2	*	0	0	0	0
<u>Liopropoma</u> sp.	0	0	0	0	0	0	1	*	0	0
<u>Mycteroperca bonaci</u>	0	0	0	0	3	7	0	0	0	0
<u>M. microlepis</u>	0	0	1	*	0	0	0	0	0	0
<u>Pikea mexicana</u>	0	0	0	0	0	0	0	0	37	*
<u>Schultzea beta</u>	0	0	0	0	0	0	5	*	0	0
<u>Serraniculus pumilio</u>	0	0	0	0	1	*	0	0	0	0
Serranidae sp.	0	0	0	0	0	0	0	0	7	*
<u>Serranus</u> sp.	0	0	9	*	0	0	0	0	0	0

Table 4 (Continued)

Species	Depth Zone (m)									
	9-18		19-27		28-55		56-110		111-193	
	No.	Wt.	No.	Wt.	No.	Wt.	No.	Wt.	No.	Wt.
<u>S. notospilus</u>	0	0	0	0	0	0	4	*	36	*
<u>S. phoebe</u>	0	0	1	*	61	3	41	1	132	*
<u>S. tortugaram</u>	0	0	1	*	0	0	0	0	0	0
<u>Rypticus bistrispinus</u>	0	0	0	0	0	0	2	*	0	0
<u>R. saponaceus</u>	2	*	0	0	7	*	4	*	0	0
<u>Priacanthus arenatus</u>	0	0	0	0	29	13	11	1	3	*
<u>P. cruentatus</u>	0	0	0	0	7	3	0	0	2	*
<u>Pristigenys alta</u>	0	0	6	1	62	3	3	*	1	*
<u>Apogon</u> sp.	1	*	0	0	15	*	0	0	0	0
<u>A. maculatus</u>	0	0	0	0	0	0	1	*	0	0
<u>A. pseudomaculatus</u>	0	0	0	0	1	*	3	*	0	0
<u>Epigonus</u> sp.	0	0	0	0	0	0	0	0	1	*
<u>Caulolatilus cyanops</u>	0	0	0	0	0	0	0	0	9	1
<u>Echeneis naucrates</u>	0	0	0	0	1	*	0	0	0	0
<u>Remora remora</u>	0	0	1	*	0	0	0	0	0	0

Table 4 (Continued)

Species	Depth Zone (m)									
	9-18		19-27		28-55		56-110		111-193	
	No.	Wt.	No.	Wt.	No.	Wt.	No.	Wt.	No.	Wt.
<u><i>Caranx crysos</i></u>	0	0	1	*	0	0	0	0	0	0
<u><i>C. hippos</i></u>	4	*	4	*	0	0	0	0	0	0
<u><i>Chloroscombrus chrysurus</i></u>	0	0	36	1	0	0	4	*	0	0
<u><i>Decapterus punctatus</i></u>	38	*	314	4	1482	27	235	7	42	3
<u><i>Selene setapinnis</i></u>	5	*	0	0	0	0	0	0	0	0
<u><i>Trachurus lathami</i></u>	5	*	823	7	942	16	946	28	840	39
<u><i>Etelis oculatus</i></u>	0	0	0	0	0	0	0	0	1	2
<u><i>Lutjanus griseus</i></u>	7	1	0	0	59	10	0	0	0	0
<u><i>L. synagris</i></u>	7	2	3	*	60	11	0	0	0	0
<u><i>Pristipomoides aquilonaris</i></u>	1	*	208	*	151	6	47	4	300	26
<u><i>Rhomboplites aurorubens</i></u>	0	0	14	*	2644	53	693	58	3	*
<u><i>Eucinostomus argenteus</i></u>	2	*	11	*	4	*	0	0	0	0
<u><i>E. gula</i></u>	202	4	178	5	94	3	0	0	0	0
<u><i>Haemulon</i> sp.</u>	0	0	1	*	78	11	0	0	0	0
<u><i>H. aurolineatum</i></u>	739	22	4308	581	7975	723	1256	28	0	0

Table 4 (Continued)

Species	Depth Zone (m)									
	9-18		19-27		28-55		56-110		111-193	
	No.	Wt.	No.	Wt.	No.	Wt.	No.	Wt.	No.	Wt.
<u>H. plumieri</u>	247	40	68	18	7	*	0	0	0	0
<u>H. striatum</u>	0	0	0	0	0	0	47	1	0	0
<u>Orthopristis chrysoptera</u>	3939	156	596	48	2280	270	0	0	0	0
<u>Inermia vittata</u>	0	0	0	0	0	0	13	*	0	0
<u>Calamus</u> sp.	37	12	0	0	0	0	0	0	0	0
<u>C. arctifrons</u>	1144	168	114	14	93	10	0	0	0	0
<u>C. bajonado</u>	172	25	170	23	275	71	0	0	0	0
<u>C. calamus</u>	0	0	0	0	11	3	0	0	0	0
<u>C. leucosteus</u>	3	*	0	0	0	0	0	0	0	0
<u>C. penna</u>	110	3	10	*	400	85	11	*	0	0
<u>C. proridens</u>	17	3	211	40	620	158	13	1	0	0
<u>Diplodus holbrooki</u>	488	28	2194	158	556	39	0	0	0	0
<u>Lagodon rhomboides</u>	3818	110	1250	67	1218	88	682	55	252	20
<u>Pagrus pagrus</u>	0	0	0	0	23	7	36	8	6	1
Sparidae sp.	0	0	244	28	0	0	0	0	0	0

Table 4 (Continued)

Species	Depth Zone (m)									
	9-18		19-27		28-55		56-110		111-193	
	No.	Wt.	No.	Wt.	No.	Wt.	No.	Wt.	No.	Wt.
<u>Stenotomus caprinus</u>	4	*	1	*	6	*	11	*	4	*
<u>Bairdiella chrysoura</u>	910	53	8	*	0	0	0	0	0	0
<u>Cynoscion arenarius</u>	124	21	34	4	1	*	0	0	0	0
<u>C. nebulosus</u>	17	5	0	0	0	0	0	0	0	0
<u>C. nothus</u>	55	5	0	0	0	0	0	0	0	0
<u>Equetus</u> sp.	0	0	0	0	3	*	0	0	0	0
<u>E. acuminatus</u>	6	*	10	*	107	9	5	*	0	0
<u>E. lanceolatus</u>	0	0	45	3	654	34	0	0	0	0
<u>E. umbrosus</u>	0	0	0	0	5	*	0	0	0	0
<u>Leiostomus xanthurus</u>	4828	221	635	53	1165	117	12	1	4	*
<u>Menticirrhus americanus</u>	102	13	6	1	0	0	0	0	0	0
<u>M. littoralis</u>	1	*	0	0	0	0	0	0	0	0
<u>Micropogonias undulatus</u>	13	*	1	*	54	3	0	0	0	0
<u>Odontoscion dentex</u>	6	*	1	*	0	0	0	0	0	0
<u>Stellifer lanceolatus</u>	7	*	0	0	0	0	0	0	0	0

Table 4 (Continued)

Species	Depth Zone (m)									
	9-18		19-27		28-55		56-110		111-193	
	No.	Wt.	No.	Wt.	No.	Wt.	No.	Wt.	No.	Wt.
<u>Mullus auratus</u>	0	0	0	0	21	*	508	33	206	15
<u>Pseudupeneus maculatus</u>	1	*	1	*	0	0	2	*	0	0
<u>Upeneus parvus</u>	0	0	0	0	0	0	166	14	10	*
<u>Chaetodipterus faber</u>	5	*	1	*	0	0	0	0	0	0
<u>Chaetodon</u> sp.	0	0	0	0	0	0	2	*	1	*
<u>C. aya</u>	0	0	0	0	0	0	1	*	1	*
<u>C. capistratus</u>	0	0	0	0	6	*	0	0	0	0
<u>C. ocellatus</u>	0	0	1	*	32	1	4	*	0	0
<u>C. sedentarius</u>	0	0	0	0	0	0	1	*	0	0
<u>C. striatus</u>	0	0	1	*	0	0	0	0	0	0
<u>Holacanthus bermudensis</u>	0	0	0	0	10	6	0	0	0	0
<u>H. ciliaris</u>	0	0	0	0	2	1	5	*	0	0
<u>Pomacanthus arcuatus</u>	1	*	0	0	4	3	0	0	0	0
<u>Chromis</u> sp.	0	0	0	0	0	0	1	*	0	0
<u>C. enchyrsurus</u>	0	0	0	0	3	*	16	*	0	0

Table 4 (Continued)

Species	Depth Zone (m)									
	9-18		19-27		28-55		56-110		111-193	
	No.	Wt.	No.	Wt.	No.	Wt.	No.	Wt.	No.	Wt.
<u>Bodianus pulchellus</u>	0	0	0	0	0	0	1	*	0	0
<u>Decodon puellaris</u>	0	0	0	0	0	0	0	0	48	1
<u>Halichoeres</u> sp.	9	*	5	*	0	0	0	0	0	0
<u>Hemipteronotus novacula</u>	1	*	20	*	2	*	0	0	0	0
<u>Lachnolaimus maximus</u>	2	*	4	1	0	0	0	0	0	0
<u>Nicholsina usta</u>	42	*	5	*	28	4	1	*	0	0
<u>Scarus</u> sp.	0	0	1	*	0	0	0	0	0	0
<u>Sparisoma chrysopterum</u>	0	0	1	*	0	0	0	0	0	0
<u>Sphyraena guachancho</u>	1	*	0	0	0	0	0	0	0	0
<u>Polydactylus octonemus</u>	0	0	1	*	0	0	0	0	0	0
<u>Opistognathus</u> sp.	2	*	0	0	0	0	0	0	1	*
<u>Bembrops anatirostris</u>	0	0	0	0	0	0	0	0	58	2
<u>B. gobicoides</u>	0	0	0	0	0	0	0	0	32	2
<u>Astroscopus y-graecum</u>	0	0	0	0	7	*	23	2	0	0
<u>Kathetostoma alboguttata</u>	3	*	0	0	9	7	52	2	13	*

Table 4 (Continued)

Species	Depth Zone (m)									
	9-18		19-27		28-55		56-110		111-193	
	No.	Wt.	No.	Wt.	No.	Wt.	No.	Wt.	No.	Wt.
<u>Bleniidae</u> sp.	1	*	574	4	0	0	0	0	0	0
<u>Callionymus agassizi</u>	0	0	0	0	0	0	0	0	2	*
<u>Scomber japonicus</u>	0	0	1	*	0	0	0	0	121	9
<u>Scomberomorus maculatus</u>	0	0	1	*	0	0	0	0	0	0
<u>Ariomma</u> sp.	0	0	0	0	0	0	0	0	2	*
<u>Peprilus paru</u>	0	0	7	*	0	0	0	0	0	0
<u>P. triacanthus</u>	106	1	16	1	0	0	0	0	12	1
<u>Helicolenus</u> sp.	0	0	0	0	0	0	0	0	1	*
<u>H. dactylopterus</u>	0	0	0	0	0	0	0	0	1	*
<u>Pontinus longispinis</u>	0	0	0	0	0	0	0	0	60	3
<u>P. rathbuni</u>	0	0	0	0	1	*	0	0	1	*
<u>Scorpaena</u> sp.	2	*	62	14	8	*	11	*	21	2
<u>S. agassizi</u>	2	*	38	*	699	19	339	12	229	12
<u>S. brasiliensis</u>	68	1	73	1	710	59	834	83	4	*
<u>S. calcarata</u>	8	*	117	1	698	25	415	10	12	*

Table 4 (Continued)

Species	Depth Zone (m)									
	9-18		19-27		28-55		56-110		111-193	
	No.	Wt.	No.	Wt.	No.	Wt.	No.	Wt.	No.	Wt.
<u>S. dispar</u>	0	0	0	0	0	0	12	*	0	0
<u>Bellator egretta</u>	0	0	0	0	0	0	1	*	8	*
<u>B. militaris</u>	0	0	1	*	361	6	851	24	64	*
<u>Peristedion ecuadorensis</u>	0	0	0	0	0	0	0	0	11	1
<u>P. gracile</u>	0	0	0	0	0	0	4	*	215	4
<u>P. miniatum</u>	0	0	0	0	0	0	1	*	31	4
<u>Prionotus</u> sp.	20	*	3	*	56	4	4	*	0	0
<u>P. alatus</u>	0	0	0	0	1	*	165	9	36	1
<u>P. ophryas</u>	0	0	0	0	25	1	43	3	0	0
<u>P. paralatus</u>	0	0	0	0	24	*	43	2	29	1
<u>P. roseus</u>	0	0	0	0	270	10	165	10	1	*
<u>P. salmonicolor</u>	0	0	34	*	48	2	50	3	0	0
<u>P. scitulus</u>	481	17	152	5	341	15	7	*	0	0
<u>P. stearnsi</u>	0	0	46	1	3	*	14	*	326	4
<u>P. tribulus</u>	0	0	1	*	0	0	0	0	0	0

Table 4 (Continued)

Species	Depth Zone (m)									
	9-18		19-27		28-55		56-110		111-193	
	No.	Wt.	No.	Wt.	No.	Wt.	No.	Wt.	No.	Wt.
<u>Ancylopsetta</u> sp.	0	0	0	0	0	0	3	*	1	*
<u>A. dilecta</u>	0	0	4	1	0	0	1	*	54	5
<u>A. quadrocellata</u>	3	*	3	*	2	*	0	0	0	0
<u>Bothus</u> sp.	0	0	3	*	30	1	0	0	0	0
<u>B. ocellatus</u>	0	0	1	*	46	1	0	0	0	0
<u>B. robinsi</u>	4	*	5	*	103	2	62	2	2	*
<u>Citharichthys cornutus</u>	0	0	0	0	0	0	6	*	92	*
<u>C. dinoceros</u>	0	0	0	0	0	0	0	0	1	*
<u>C. macrops</u>	11	*	61	*	69	1	8	*	20	*
<u>Cyclopsetta chittendeni</u>	0	0	1	*	24	2	0	0	4	*
<u>C. fimbriata</u>	0	0	0	0	3	*	8	*	0	0
<u>Etropus</u> sp.	0	0	0	0	54	*	85	1	0	0
<u>E. crossotus</u>	8	*	15	*	602	11	19	*	0	0
<u>E. rimosus</u>	0	0	1	*	108	1	0	0	0	0
<u>Gastropsetta frontalis</u>	0	0	0	0	1	*	3	*	1	*

Table 4 (Continued)

Species	Depth Zone (m)									
	9-18		19-27		28-55		56-110		111-193	
	No.	Wt.	No.	Wt.	No.	Wt.	No.	Wt.	No.	Wt.
<u>Paralichthys alboguttata</u>	16	5	14	4	43	17	0	0	0	0
<u>P. lethostigma</u>	1	*	2	1	5	*	0	0	0	0
<u>P. squamilentus</u>	0	0	0	0	0	0	0	0	2	1
<u>Syacium</u> sp.	12	*	4	*	581	28	107	4	0	0
<u>S. gunteri</u>	0	0	0	0	0	0	193	7	0	0
<u>S. micrurum</u>	0	0	0	0	117	5	192	9	0	0
<u>S. papillosum</u>	44	*	292	6	2073	110	2008	120	223	14
<u>Trichopsetta ventralis</u>	0	0	0	0	0	0	0	0	7	*
<u>Achirus lineatus</u>	1	*	0	0	0	0	0	0	0	0
<u>Gymnachirus</u> sp.	0	0	1	*	5	*	0	0	0	0
<u>G. melas</u>	0	0	0	0	0	0	0	0	1	*
<u>G. texae</u>	1	*	1	*	13	*	1	*	0	0
<u>Syphurus</u> sp.	7	*	2	*	8	*	0	0	0	0
<u>S. civitatus</u>	10	*	0	0	0	0	0	0	0	0
<u>S. diomedianus</u>	0	0	2	*	83	4	26	*	1	*

Table 4 (Continued)

Species	Depth Zone (m)									
	9-18		19-27		28-55		56-110		111-193	
	No.	Wt.	No.	Wt.	No.	Wt.	No.	Wt.	No.	Wt.
<u>S. plagiusa</u>	6	*	3	*	0	0	0	0	0	0
<u>S. urospilus</u>	0	0	0	0	2	*	0	0	0	0
<u>Parahollandia lineata</u>	0	0	0	0	0	0	0	0	1	*
<u>Aluterus heudeloti</u>	0	0	1	*	1	*	1	*	0	0
<u>A. schoepfi</u>	31	7	130	29	199	48	21	12	0	0
<u>A. scriptus</u>	4	*	5	*	4	*	0	0	0	0
<u>Balistes capriscus</u>	6	*	78	7	134	19	16	*	1	*
Balistidae sp.	4	*	0	0	0	0	0	0	0	0
<u>Monocanthus ciliatus</u>	65	*	58	*	141	3	691	22	111	2
<u>M. hispidus</u>	70	8	130	12	873	38	359	12	15	*
<u>Xanthichthys ringens</u>	2	*	0	0	0	0	0	0	0	0
<u>Lactophrys</u> sp.	1	*	4	*	0	0	2	*	0	0
<u>L. polygonia</u>	0	0	0	0	2	*	0	0	0	0
<u>L. quadricornis</u>	1100	164	1120	244	229	44	13	3	0	0
<u>Lagocephalus</u> sp.	0	0	0	0	0	0	0	0	1	*

Table 4 (Continued)

Species	Depth Zone (m)									
	9-18		19-27		28-55		56-110		111-193	
	No.	Wt.	No.	Wt.	No.	Wt.	No.	Wt.	No.	Wt.
<u>L. laevigatus</u>	0	0	0	0	1	*	4	*	0	0
<u>Sphoeroides</u> sp.	0	0	3	*	0	0	0	0	0	0
<u>S. dorsalis</u>	0	0	7	*	404	43	407	33	6	*
<u>S. nephelus</u>	3	*	0	0	6	*	0	0	0	0
<u>S. parvus</u>	0	0	9	*	0	0	0	0	0	0
<u>S. spengleri</u>	25	2	35	*	339	32	26	1	0	0
<u>Chilomycterus schoepfi</u>	31	7	9	5	11	2	2	*	0	0
<u>Mola mola</u>	0	0	0	0	0	0	0	0	1	81

1/ Total weight < 0.5 kg.

Table 5. Depth distribution of selected invertebrate catches of Oregon II Criuse 85, January 1978. Number columns represent the numbers of individuals caught in each depth zone, and weight columns represent their weight in kilograms.

Species	Depth Zone (m)									
	9-18		19-27		28-55		56-110		111-193	
	No.	Wt.	No.	Wt.	No.	Wt.	No.	Wt.	No.	Wt.
Porifera spp.	557	1417	7509	2297	3426	4614	522	234	18	22
Anthozoa spp.	63	13	144	11	773	58	39	18	33	3
Gorgoniidae spp.	56	3	17	*	8	*	9	*	0	0
Ectoprocta spp.	50	*	85	1	3871	3	65	*	0	0
<u>Rossia</u> sp.	0	0	1	*	0	0	0	0	2	*
Loliginidae spp.	887	10	369	4	487	4	17	0	130	4
<u>Loligo</u> sp.	73	1	87	1	61	*	8	*	5	
<u>L. pealei</u>	771	20	2172	36	449	8	326	3	207	5
<u>L. plei</u>	14	*	79	2	140	2	32	1	23	1
<u>Lolliguncula</u> sp.	0	0	0	0	18	*	0	0	0	0
<u>L. brevis</u>	19	*	34	*	0	0	0	0	0	0
<u>Octopus</u> sp.	2	1	3	*	4	1	2	*	1	*
<u>O. vulgaris</u>	0	0	4	1	3	2	2	*	0	0

Table 5 (Continued)

Species	Depth Zone (m)									
	9-18		19-27		28-55		56-110		111-193	
	No.	Wt.	No.	Wt.	No.	Wt.	No.	Wt.	No.	Wt.
<u>Mesopenaeus tropicalis</u>	0	0	0	0	0	0	0	0	8	*
<u>Solenocera</u> sp.	0	0	12	*	69	*	62	*	99	*
<u>Parapenaeus</u> sp.	0	0	8	*	27	*	0	0	88	*
<u>Penaeus aztecus</u>	1	*	16	*	6	*	0	0	0	0
<u>P. duorarum</u>	180	3	402	12	543	17	0	0	0	0
<u>P. setiferus</u>	155	4	8	*	0	0	0	0	0	0
<u>Trachypenaeus</u> sp.	98	*	233	*	103	*	63	*	55	*
<u>Sicyonia</u> sp.	2	*	2	*	1	*	0	0	0	0
<u>S. brevirostris</u>	24	*	298	2	1934	43	472	12	2	*
<u>S. dorsalis</u>	0	0	15	*	16	*	0	0	1	*
<u>S. stimpsoni</u>	0	0	0	0	0	0	0	0	2	*
Alpheidae sp.	0	0	1	*	2000	*	0	0	0	0
Axiidae sp.	0	0	0	0	0	0	0	0	1	*
<u>Nephropsis</u> sp.	0	0	0	0	0	0	0	0	3	*
<u>Scyllarides</u> sp.	0	0	3	1	83	3	1	*	1	*

Table 5 (Continued)

Species	Depth Zone (m)									
	9-18		19-27		28-55		56-110		111-193	
	No.	Wt.	No.	Wt.	No.	Wt.	No.	Wt.	No.	Wt.
<u>S. aequinoctialis</u>	0	0	0	0	4	*	0	0	0	0
<u>S. nodifer</u>	2	*	5	2	39	16	12	3	0	0
<u>Scyllarus</u> sp.	0	0	3	*	18	*	10	*	1	*
<u>S. chacei</u>	0	0	0	0	4	*	4	*	0	0
<u>S. nearctus</u>	0	0	0	0	0	0	2	*	18	*
Galatheidae sp.	0	0	0	0	0	0	0	0	5	*
<u>Munida</u> sp.	0	0	0	0	0	0	1	*	3	*
Porcellanidae sp.	3	*	1	*	0	0	0	0	0	0
Paguridae sp.	3	*	14	*	12	*	1	*	8	*
<u>Pagurus</u> sp.	0	0	0	0	2	*	1	*	6	*
<u>Myropsis quinquespinosa</u>	0	0	0	0	0	0	0	0	3	*
Dromiidae sp.	0	0	6	*	7	*	2	*	1	*
<u>Acanthocarpus alexandri</u>	0	0	0	0	0	0	0	0	6	*
<u>A. bispinosus</u>	0	0	0	0	0	0	0	0	1	*
<u>Calappa</u> sp.	0	0	0	0	0	0	1	*	0	0

Table 5 (Continued)

Species	Depth Zone (m)									
	9-18		19-27		28-55		56-110		111-193	
	No.	Wt.	No.	Wt.	No.	Wt.	No.	Wt.	No.	Wt.
<u>C. flammea</u>	6	*	0	0	6	2	2	*	0	0
<u>C. sulcata</u>	0	0	9	*	0	0	0	0	0	0
<u>Hepatus</u> sp.	0	0	0	0	4	*	0	0	0	0
<u>H. epheleticus</u>	7	*	0	0	0	0	0	0	0	0
Portunidae sp.	0	0	2	*	4	*	7	*	1	*
<u>Callinectes rathbuni</u>	17	*	1	*	1	*	0	0	0	0
<u>C. similis</u>	9	*	4	*	0	0	1	*	0	0
<u>Portunus</u> sp.	1	*	10	*	14	*	12	*	2	*
<u>P. gibbesii</u>	71	*	47	*	56	3	0	0	0	0
<u>P. sayi</u>	4	*	2	*	6	*	3	*	0	0
<u>P. spinicarpus</u>	3	*	36	*	68	*	297	2	184	2
<u>P. spinimanus</u>	1	*	2	*	37	2	41	1	12	*
<u>P. ventralis</u>	0	0	0	0	0	0	1	*	0	0
Xanthidae sp.	16	*	13	*	3	*	8	*	1	*
Goneplacidae sp.	0	0	0	0	0	0	0	0	1	*

Table 5 (Continued)

Species	Depth Zone (m)									
	9-18		19-27		28-55		56-110		111-193	
	No.	Wt.	No.	Wt.	No.	Wt.	No.	Wt.	No.	Wt.
Grapsidae sp.	35	*	0	0	0	0	7	*	0	0
Majidae sp.	94	*	15	*	4	*	7	*	3	*
<u>Anasimus latus</u>	0	0	0	0	0	0	1	*	6	*
<u>Libinia</u> sp.	0	0	0	0	0	0	0	0	1	*
<u>L. emarginata</u>	0	0	0	0	0	0	0	0	5	*
<u>Macrocoeloma trispinosum</u>	0	0	1	*	0	0	0	0	0	0
<u>Podochela sidneyi</u>	26	*	3	*	1	*	0	0	0	0
<u>Stenocionops</u> sp.	0	0	0	0	0	0	1	*	0	0
<u>S. furcata</u>	0	0	0	0	1	*	0	0	2	*
<u>Stenorynchus seticornis</u>	8	*	0	0	2	*	1	*	1	*
<u>Parthenope</u> sp.	1	*	0	0	0	0	0	0	0	0
<u>P. pourtalesii</u>	0	0	0	0	0	0	0	0	3	*
<u>P. serrata</u>	0	0	1	*	0	0	0	0	0	0
Crinoidea sp.	1	*	0	0	0	0	0	0	0	0
Asteroidea spp.	103	20	111	45	136	8	56	*	113	*

Table 5 (Continued)

Species	Depth Zone (m)									
	9-18		19-27		28-55		56-110		111-193	
	No.	Wt.	No.	Wt.	No.	Wt.	No.	Wt.	No.	Wt.
<u>Asterias</u> sp.	6	*	0	0	0	0	0	0	0	0
<u>Astropecten</u> sp.	10	*	7	*	19	*	0	0	2	*
<u>Goniaster americanus</u>	0	0	0	0	4	*	1	*	0	0
<u>Luidia</u> sp.	2	*	22	*	32	*	2	*	0	0
<u>L. clathrata</u>	2	*	1	*	1	*	0	0	0	0
<u>Oreaster reticulata</u>	3	3	0	0	0	0	0	0	0	0
Ophiuroidae spp.	3	*	5	*	79	*	8	*	3	*
Gorgonocephalidae spp.	0	0	0	0	2	*	1	*	1	*
Echinoidea spp.	128	9	46	2	239	8	106	3	114	2
Scutellidae sp.	80	*	2	*	21	2	6	*	0	0
<u>Arbacia</u> sp.	4	*	7	*	4	*	1	*	3	*
Spatangidae sp.	1	*	0	0	0	0	0	0	3	*
Clypeasteridae sp.	0	0	0	0	10	1	23	2	6	*
<u>Clypeaster</u> sp.	0	0	0	0	61	13	9	1	3	*

Table 5 (Continued)

Species	Depth Zone (m)									
	9-18		19-27		28-55		56-110		111-193	
	No.	Wt.	No.	Wt.	No.	Wt.	No.	Wt.	No.	Wt.
Holothuroidea spp.	12	3	6	4	44	26	9	7	1	*
Tunicata spp.	185	12	31	*	268	7	36	*	0	0

1/ Total weight < 0.5 kg.