

South Florida Gulf Benthic Community Assessment, August 1999

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INTRODUCTION

The South Florida Gulf (SFG) region was sampled during August, 1999. One aspect of this evaluation was benthic community characterization, which was accomplished via sample collection by National Oceanic and Atmospheric Administration (NOAA) personnel and laboratory and data analysis by Barry A. Vittor & Associates, Inc. (BVA).

The SFG region and 1999 sampling stations are indicated in Figure 1.

METHODS

Sample Collection And Handling

A Young dredge (area = 0.04 m^2) was used to collect replicate bottom samples at each of 69 SFG stations in and around the South Florida Gulf region. A box corer (area= 0.09m^2) was used to collect six samples along a pre-determined transect. Macroinfaunal samples were sieved through a 0.5-mm mesh screen and preserved with 10% formalin on ship. Macroinfaunal samples were transported to the BVA laboratory in Mobile, Alabama.

Sediment Analysis

Sediment texture was determined at half-phi intervals using the hydrometer technique for fractions smaller than 44 μm and nested sieves for larger particle fractions. Texture parameters that were computed included percent gravel, sand, and silt /clay. Total organic carbon (TOC) content was measured as ash-free dry weight expressed as a percentage.

Macroinfaunal Sample Analysis

In the laboratory of BVA, benthic samples were inventoried, rinsed gently through a 0.5 mm mesh sieve to remove preservatives and sediment, stained with Rose Bengal, and stored in 70% isopropanol solution until processing. Sample material (sediment, detritus, organisms) was placed in white enamel trays for sorting under Wild M-5A dissecting microscopes. All macroinvertebrates were carefully removed with forceps and placed in labelled glass vials containing 70% isopropanol. Each vial represented a major taxonomic group (e.g. Polychaeta, Mollusca, Arthropoda). All sorted macroinvertebrates were identified to the lowest practical identification level (LPIL), which in most cases was to species level unless the specimen was a juvenile, damaged, or otherwise unidentifiable. The number of individuals of each taxon, excluding fragments, was

recorded. A voucher collection was prepared, composed of representative individuals of each species not previously encountered in samples from the region.

DATA ANALYSIS

All data generated as a result of laboratory analysis of macroinfauna samples were first coded on data sheets. Enumeration data were entered for each species according to station and replicate. These data were reduced to a data summary report for each station, which included a taxonomic species list and benthic community parameters information. Archive data files of species identification and enumeration were prepared.

The Quality Assurance (QA) and Quality Control (QC) reports for the SFG samples are given in the Appendix.

The analytical methodologies utilized for this study were similar to those used in similar benthic community characterization reports prepared for other state and federal agency surveys. Macroinfaunal characterization involves an evaluation of several biological community structure parameters (*e.g.*, species abundance, species composition and species diversity indices) during initial data reduction, followed by pattern and classification analysis for delineation of taxa assemblages. Since species are distributed along environmental gradients, there are generally no distinct boundaries between communities. However, the relationships between habitats and species assemblages often reflect the interactions of physical and biological factors and indicate major ecological trends.

Assemblage Structure

Several numerical indices were chosen for analysis and interpretation of the macroinfaunal data. Selection was based primarily on the ability of the index to provide a meaningful summary of data, as well as the applicability of the index to the characterization of the benthic community. Infaunal abundance is reported as the total number of individuals per station and the total number of individuals per square meter (= density). Taxa richness is reported as the total number and mean number of taxa represented in a given station collection.

Taxa diversity, which is often related to the ecological stability and environmental "quality" of the benthos, was estimated by the Shannon-Weaver Index (Pielou, 1966), according to the following formula:

$$H' = - \sum_{i=1}^S p_i (\ln p_i)$$

where, S = is the number of taxa in the sample,

i = is the i'th taxa in the sample, and

p_i = is the number of individuals of the i'th taxa divided by the total number of individuals in the sample.

Taxa diversity within a given community is dependent upon the number of taxa present (taxa richness) and the distribution of all individuals among those taxa (equitability or evenness). In order to quantify and compare faunal equitability to taxa diversity for a given area, Pielou's Index J' (Pielou, 1966) was calculated as $J' = H' / \ln S$, where $\ln S = H'_{\max}$, or the maximum possible diversity, when all taxa are represented by the same number of individuals; thus, $J' = H' / H'_{\max}$.

HABITAT CHARACTERISTICS

Location and sediment data for the 69 Gulf stations are given in Table 1 and Figures 2 and 3. Sediment composition at the 69 stations varied from > 90% sand at 21 stations to > 40% silt at 6 stations (Table 1; Figure 2).

Location and sediment data for the six Transect stations are given in Table 2 and Figures 4 and 5. Sediment composition at the six Transect stations varied from 58% sand at station T9 to 29% clay at station T8 (Table 2; Figure 4). Silt/clay were predominant at most stations, with gravel/sand fractions contributing to the sediment at T9 and T10 (Figure 5).

BENTHIC COMMUNITY CHARACTERIZATION

Faunal Composition, Abundance, and Community Structure-Gulf Stations

Table 3 provides a complete phylogenetic listing for all stations as well as data on taxa abundance and station occurrence. Microsoft™Excel (Macintosh version) spreadsheets are being provided separately to NOAA which include: raw data on taxa abundance and density by replicate, a

complete taxonomic listing with station abundance and occurrence, a major taxa table with overall taxa abundance, and an assemblage parameter table including data on mean number of taxa, mean density, taxa diversity and taxa evenness by station.

A total of 44,742 organisms, representing 1,236 taxa, were identified from the 69 SFG stations (Table 4). Polychaetes were the most numerous organisms present representing 47.4% of the total assemblage, followed in abundance by malacostracans (18.3%) and bivalves (11.0%). Polychaetes represented 33.5% of the total number of taxa followed by malacostracans (27.1%) and gastropods(14.6%) (Table 4).

The abundance of major taxa by SFG station are given in Table 5 and Figure 6. The number of taxa per station ranged from 56 at Station 159 to 253 at Station 127. The number of organisms per station ranged from 174 at Station 175 to 1,716 at Station 163.

The dominant taxa collected from the SFG samples were the polychaete, *Prionospio* (LPIL), Rhynchocoela (LPIL) and the polychaete, *Armandia maculata*, representing 2.7%, 2.1% and 2.1% of the total number of individuals, respectively (Table 3). Rhynchocoela (LPIL) widely distributed, being found at 100% of the stations (Table 3). The distribution of dominant taxa representing > 5% of the total assemblage at each SFG station is given in Table 6.

Mean station density and mean number of taxa data for the SFG stations are given in Table 7 and Figures 7, 8, 9 and 10. Mean density per station exhibited variation ranging from 620 organisms/m² at Station 178 to 14,300 organisms/m² at Station 163 (Table 7; Figures 7 and 8). Mean number of taxa per station also varied and ranged from 26.7 at Station 159 to 116.5 at Station 127 (Table 7; Figures 9 and 10).

Taxa diversity and evenness are given in Table 7 and Figures 11 and 12. Taxa diversity (H') was uniformly high with all stations having values > 3.0; values ranged from 3.41 at Station 162 to 5.0 at Station 127 (Table 7, Figure 11). Taxa evenness (J) was also high, with all stations having values > 0.70; evenness ranged from 0.74 at Station 116 to 0.93 at Station 178 (Table 2; Figure 12).

Faunal Composition, Abundance, and Community Structure-Transect Stations

Table 8 provides a complete phylogenetic listing for all stations as well as data on taxa abundance and station occurrence. A total of 1,140 organisms, representing 181 taxa, were

identified from the six Transect stations (Table 9). Polychaetes were the most numerous organisms present representing 73.1% of the total assemblage, followed in abundance by bivalves (8.6%) and malacostracans (4.5%). Polychaetes represented 55.2% of the total number of taxa followed by malacostracans (15.5%) and bivalves (8.3%) (Table 9).

The abundance of major taxa for each Transect station is given in Table 10 and Figure 13. The number of taxa per station ranged from 31 at Station T6 to 77 at Station T9. The number of organisms per station ranged from 69 at Station T6 to 287 at Station T8.

The dominant taxa collected from the Transect samples were the polychaetes, *Prionospio* (LPIL), *Armandia maculata*, *Taylorphloe hirsuta*, and *Spiophanes missionensis* representing 6.8%, 4.7%, 4.6% and 4.6% of the total number of individuals, respectively (Table 8). Seven taxa were widely distributed, being found at 100% of the stations (Table 8). The distribution of dominant taxa representing > 5% of the total assemblage at each station is given in Table 11.

Mean station density and mean number of taxa data are given in Table 12 and Figures 14, 15, 16, and 17. Density per station exhibited variation ranging from 767 at Station T6 to 3,186 at Station T8 (Table 12; Figures 14 and 15). Number of taxa per station also varied and ranged from 31 at Station T6 to 77 at Station T9 (Table 12; Figures 16 and 17).

Taxa diversity and evenness are given in Table 12 and Figures 18 and 19. Taxa diversity (H') was uniformly high with all stations having diversity values > 3.0; values ranged from 3.0 at Station T6 to 3.9 at Station T10 (Table 12, Figure 18). Taxa evenness (J) was also high, with all stations having evenness values > 0.85; values ranged from 0.85 at Station T6 to 0.90 at Station T10 (Table 12; Figure 19).

LITERATURE CITED

Pielou, E.C. 1966. The measurement of diversity in different types of biological collections. *Journal of Theoretical Biology* 13:131-144.

Table 1. Summary of location and sediment data for the South Florida Gulf stations, August 1999.

Station	Latitude	Longitude	Depth (ft)	Gravel (%)	Sand (%)	Silt (%)	Clay (%)	USACE Textural Description
94	25°28'427" N	83°39'148" W	243.8	6.47	88.89	0.00	0.00	–
101	25°27'947" N	83°49'253" W	350.5	4.32	92.15	0.00	0.00	Sand
102	25°30'118" N	83°34'318" W	228.7	3.75	94.94	0.00	0.00	Sand
103	25°29'336" N	83°19'345" W	192.3	5.27	67.02	7.96	19.75	–
104	25°24'388" N	82°57'675" W	159.3	1.00	64.38	10.99	23.62	Clayey Sand
109	25°26'062" N	83°40'257" W	270.4	1.00	96.22	0.00	0.00	Sand
110	25°22'540" N	83°22'562" W	202.7	9.39	85.59	0.00	0.00	–
111	25°22'405" N	83°08'237" W	177.6	1.74	70.07	9.76	18.43	Silty Sand
112	25°20'214" N	82°48'064" W	136.4	4.42	47.98	22.51	25.08	Clayey Sand
113	25°20'276" N	82°25'495" W	87.3	4.24	94.09	0.00	0.00	Sand
115	25°20'625" N	83°48'258" W	339.5	0.63	95.49	0.00	0.00	Sand
116	25°22'469" N	83°31'596" W	222.6	1.74	93.28	0.00	0.00	Sand
117	25°19'267" N	83°09'208" W	180.9	2.27	74.43	6.14	17.17	Silty Sand
118	25°23'582" N	82°55'507" W	154.9	1.43	61.46	8.73	28.38	Clayey Sand
119	25°17'988" N	82°39'569" W	119.2	46.18	48.91	0.00	0.00	–
120	25°18'457" N	82°15'346" W	77.5	9.14	89.85	0.00	0.00	–
121	25°16'499" N	82°03'615" W	57.2	5.50	92.32	0.00	0.00	–
122	25°09'147" N	83°43'925" W	264.6	11.50	65.42	8.46	14.62	–
123	25°11'486" N	83°22'352" W	202.9	4.25	91.63	0.00	0.00	Sand
124	25°09'364" N	83°06'779" W	178.3	13.10	81.90	0.00	0.00	–
125	25°13'224" N	82°46'131" W	132.8	7.21	51.60	20.08	21.11	–
126	25°13'365" N	82°28'133" W	103.4	12.15	85.56	0.00	0.00	–
127	25°19'451" N	82°11'543" W	72.8	0.38	97.15	0.00	0.00	Sand
128	25°08'530" N	83°54'699" W	383.9	3.55	92.50	0.00	0.00	Sand
129	25°06'291" N	83°29'519" W	222.5	0.77	96.52	0.00	0.00	Sand
130	25°06'458" N	83°13'321" W	190.0	0.00	70.59	7.10	22.31	Clayey Sand
131	25°05'583" N	82°51'651" W	140.8	11.65	53.02	10.78	24.54	–
132	25°09'506" N	82°39'270" W	119.8	57.54	39.02	0.00	0.00	–
133	25°14'555" N	82°26'314" W	87.6	18.21	80.40	0.00	0.00	–
134	25°13'562" N	81°56'237" W	51.2	17.65	81.30	0.00	0.00	–
135	25°00'310" N	83°31'299" W	22.7	71.56	26.21	0.00	0.00	–
136	25°06'154" N	83°27'519" W	215.2	3.31	95.93	0.00	0.00	Sand
137	25°07'771" N	83°07'153" W	178.5	15.40	82.10	0.00	0.00	–
138	25°00'446" N	82°44'330" W	125.1	7.22	30.12	35.13	27.54	–
139	25°05'094" N	82°25'107" W	102.0	14.06	46.94	16.66	22.34	–
140	25°05'417" N	82°03'468" W	62.2	10.60	45.01	25.81	18.58	–
142	24°56'540" N	83°52'139" W	347.4	0.33	95.89	0.00	0.00	Sand
143	25°00'285" N	83°31'381" W	224.9	4.34	94.34	0.00	0.00	Sand
144	24°59'449" N	83°12'234" W	187.8	1.08	73.07	7.71	18.14	Silty Sand
145	25°01'196" N	82°56'484" W	148.3	7.91	49.77	18.36	23.96	–
146	25°00'380" N	82°33'409" W	105.2	1.63	20.85	49.33	28.19	Clayey Silt
147	24°59'219" N	82°22'189" W	84.5	0.00	18.36	58.27	23.37	Clayey Silt
148	25°00'279" N	81°58'310" W	61.5	0.15	43.66	32.62	23.57	Clayey Sand
150	24°55'463" N	83°45'447" W	266.8	7.27	91.36	0.00	0.00	–
151	24°50'416" N	83°20'302" W	200.1	5.84	92.84	0.00	0.00	–
152	24°51'306" N	83°03'328" W	161.6	1.02	51.03	29.19	18.76	Silty Sand
153	24°51'473" N	82°44'293" W	109.6	0.10	18.21	50.26	31.43	Silty Sand
154	24°55'322" N	82°23'595" W	84.4	51.78	44.93	0.00	0.00	–
155	24°54'084" N	82°12'217" W	74.7	0.51	19.31	46.83	33.35	Silty Sand
157	24°48'356" N	83°30'516" W	206.7	10.93	87.84	0.00	0.00	–
158	24°48'194" N	83°18'340" W	198.6	10.80	86.43	0.00	0.00	–
159	24°49'171" N	82°51'437" W	122.1			0.00	0.00	–

Table 1 continued:

Station	Latitude	Longitude	Depth (ft)	Gravel (%)	Sand (%)	Silt (%)	Clay (%)	USACE
								Textural Description
160	24°47'120" N	82°39'468" W	96.0	0.34	23.34	38.21	38.12	Silty Clay
161	24°52'234" N	82°17'119" W	77.2	0.05	15.99	58.76	25.20	Clayey Silt
162	24°48'266" N	81°56'411" W	55.2	0.08	44.67	15.16	40.09	Sandy Clay
163	24°42'518" N	83°41'445" W	209.2	67.89	30.59	0.00	0.00	-
164	24°41'047" N	83°23'479" W	20.0	2.45	96.61	0.00	0.00	Sand
165	24°41'549" N	83°00'234" W	69.5			0.00	0.00	-
166	24°44'200" N	82°50'560" W	98.9	0.00	26.60	46.87	26.54	Clayey Silt
168	24°44'160" N	83°29'139" W	198.6	5.77	92.21	0.00	0.00	-
169	24°39'187" N	83°17'178" W	198.2	5.72	93.35	0.00	0.00	-
170	24°43'379" N	82°54'460" W	107.6	0.11	42.62	27.33	29.95	Clayey Sand
172	24°37'264" N	83°23'428" W	192.9	5.65	93.14	0.00	0.00	-
173	24°36'464" N	83°06'589" W	125.2	0.00	76.80	7.84	15.36	Silty Sand
175	24°29'328" N	83°35'488" W	1600.0	0.51	62.15	10.00	27.34	Clayey Sand
176	24°31'571" N	83°11'190" W	194.1	2.31	96.91	0.00	0.00	Sand
177	24°28'061" N	82°57'243" W	6.8	9.21	63.17	7.35	20.26	-
178	24°28'162" N	83°21'194" W	589.6	1.21	97.55	0.00	0.00	Sand
179	24°26'360" N	82°59'134" W	195.0	2.43	40.17	30.81	26.58	Clayey Sand

Table 2. Summary of location and sediment data for the South Florida transect stations, August 1999.

Station ID	Latitude	Longitude	Gravel (%)	Sand (%)	Silt (%)	Clay (%)	USACE
							Textural Description
T-5	24°28'487" N	82°58'449"W	0.00	33.26	40.94	25.80	Clayey Silt
T-6	–	–	0.00	34.68	37.00	28.32	Clayey Silt
T-7	24°20'224" N	82°57'799"W	0.24	30.59	41.84	27.33	Clayey Silt
T-8	24°19'700" N	82°57'861"W	0.14	36.64	34.25	28.97	Clayey Silt
T-9	24°19'324" N	82°57'985"W	0.25	58.05	15.98	25.72	Clayey Sand
T-10	24°18'809" N	82°58'281"W	0.00	54.08	17.32	28.60	Clayey Sand

Table 3. Abundance and distribution of taxa for the South Florida Gulf stations, August 1999.

Taxon Name	Phylum	Class	No. of Individuals	% of Total	Cumulative %	Station Occurrence	% Station Occurrence
<i>Prionospio</i> (LPIL)	Ann	Poly	1186	2.65	2.65	60	87
<i>Rhynchocoela</i> (LPIL)	Rhy	–	948	2.12	4.77	69	100
<i>Litocorsa antennata</i>	Ann	Poly	945	2.11	6.88	62	90
Tubificidae (LPIL)	Ann	Olig	715	1.60	8.48	59	86
<i>Scoletoma verrilli</i>	Ann	Poly	706	1.58	10.06	54	78
<i>Haplosyllis spongicola</i>	Ann	Poly	703	1.57	11.63	14	20
<i>Mediomastus</i> (LPIL)	Ann	Poly	683	1.53	13.16	48	70
<i>Sphaerosyllis piriferopsis</i>	Ann	Poly	673	1.50	14.66	52	75
<i>Synelmis acuminata</i>	Ann	Poly	645	1.44	16.10	43	62
<i>Psammokalliapseudes granulosus</i>	Art	Mala	572	1.28	17.38	27	39
<i>Armandia maculata</i>	Ann	Poly	567	1.27	18.65	63	91
<i>Crassinella lunulata</i>	Mol	Biva	545	1.22	19.87	50	72
<i>Bunakenia</i> sp. B	Art	Mala	514	1.15	21.01	31	45
<i>Fabriciuda trilobata</i>	Ann	Poly	493	1.10	22.12	57	83
<i>Tubulanus</i> (LPIL)	Rhy	Anop	473	1.06	23.17	57	83
<i>Lucina radians</i>	Mol	Biva	458	1.02	24.20	26	38
<i>Aricidea</i> (LPIL)	Ann	Poly	448	1.00	25.20	55	80
<i>Sipuncula</i> (LPIL)	Sip	–	448	1.00	26.20	59	86
<i>Netamelita brocha</i>	Art	Mala	414	0.93	27.12	27	39
Maldanidae (LPIL)	Ann	Poly	408	0.91	28.04	60	87
Actiniaria (LPIL)	Cni	Anth	404	0.90	28.94	45	65
<i>Leptochelia</i> (LPIL)	Art	Mala	404	0.90	29.84	51	74
Lucinidae (LPIL)	Mol	Biva	378	0.84	30.69	43	62
<i>Paranesidea</i> sp. A	Art	Ostr	360	0.80	31.49	35	51
<i>Levinsenia gracilis</i>	Ann	Poly	349	0.78	32.27	52	75
<i>Chone</i> (LPIL)	Ann	Poly	334	0.75	33.02	51	74
Golfingiidae (LPIL)	Sip	–	334	0.75	33.76	35	51
<i>Aricidea taylori</i>	Ann	Poly	322	0.72	34.48	45	65
Ampharetidae (LPIL)	Ann	Poly	316	0.71	35.19	46	67
Ascidiacea (LPIL)	Cho	Asci	314	0.70	35.89	41	59
<i>Actinocythereis</i> sp. A	Art	Ostr	308	0.69	36.58	31	45
<i>Xenanthura brevitelson</i>	Art	Mala	308	0.69	37.27	37	54
<i>Ceratocephale oculata</i>	Ann	Poly	307	0.69	37.96	43	62
<i>Monticellina dorsobranchialis</i>	Ann	Poly	307	0.69	38.64	47	68
<i>Typosyllis</i> sp. B	Ann	Poly	306	0.68	39.33	27	39
Brachiopoda (LPIL)	Bra	–	296	0.66	39.99	32	46
Ophiuroidea (LPIL)	Ech	Ophi	286	0.64	40.63	57	83
Terebellidae (LPIL)	Ann	Poly	286	0.64	41.27	53	77
<i>Codakia pectinella</i>	Mol	Biva	285	0.64	41.90	14	20
Sabellidae (LPIL)	Ann	Poly	279	0.62	42.53	49	71
Aoridae (LPIL)	Art	Mala	275	0.61	43.14	46	67
<i>Aspidosiphon albus</i>	Sip	–	274	0.61	43.75	45	65
<i>Glycera</i> (LPIL)	Ann	Poly	267	0.60	44.35	46	67
Spionidae (LPIL)	Ann	Poly	267	0.60	44.95	49	71
<i>Galathowenia oculata</i>	Ann	Poly	266	0.59	45.54	39	57
<i>Harbansus paucichelatus</i>	Art	Ostr	264	0.59	46.13	44	64
<i>Exogone lourei</i>	Ann	Poly	260	0.58	46.71	36	52
<i>Chevalia carpenteri</i>	Art	Mala	254	0.57	47.28	13	19
<i>Lucina</i> (LPIL)	Mol	Biva	252	0.56	47.84	17	25
<i>Eusarsiella radiicosta</i>	Art	Ostr	249	0.56	48.40	46	67
<i>Finella dubia</i>	Mol	Gast	244	0.55	48.95	35	51
Serpulidae (LPIL)	Ann	Poly	244	0.55	49.49	27	39
Bivalvia (LPIL)	Mol	Biva	237	0.53	50.02	58	84
<i>Goniadella</i> sp. A	Ann	Poly	236	0.53	50.55	31	45
Capitellidae (LPIL)	Ann	Poly	232	0.52	51.07	56	81
<i>Cumella</i> sp. P	Art	Mala	231	0.52	51.58	31	45
<i>Tellina</i> (LPIL)	Mol	Biva	228	0.51	52.09	43	62
<i>Lucina multilineata</i>	Mol	Biva	214	0.48	52.57	12	17

Table 3 continued:

Taxon Name	Phylum	Class	No. of Individuals	% of Total	Cumulative %	Station Occurrence	% Station Occurrence
<i>Magelona pettiboneae</i>	Ann	Poly	214	0.48	53.05	35	51
<i>Heterophoxus</i> sp. A	Art	Mala	212	0.47	53.52	28	41
<i>Lysippe</i> cf. <i>annectens</i>	Ann	Poly	203	0.45	53.98	16	23
<i>Aricidea</i> sp. AK	Ann	Poly	199	0.44	54.42	21	30
<i>Polyplacophora</i> (LPIL)	Mol	Polyp	194	0.43	54.85	23	33
Lineidae (LPIL)	Rhy	Anop	192	0.43	55.28	44	64
Syllidae (LPIL)	Ann	Poly	186	0.42	55.70	39	57
<i>Ampelisca</i> (LPIL)	Art	Mala	181	0.40	56.10	42	61
Cirratulidae (LPIL)	Ann	Poly	180	0.40	56.51	51	74
<i>Phoronis</i> (LPIL)	Pho	–	174	0.39	56.90	13	19
<i>Diplodonta semiaspera</i>	Mol	Biva	173	0.39	57.28	33	48
<i>Sigambra tentaculata</i>	Ann	Poly	170	0.38	57.66	34	49
<i>Nematonereis hebes</i>	Ann	Poly	163	0.36	58.03	31	45
<i>Pseudovermilia occidentalis</i>	Ann	Poly	161	0.36	58.39	22	32
<i>Aspidosiphon muelleri</i>	Sip	–	155	0.35	58.73	42	61
Melitidae (LPIL)	Art	Mala	143	0.32	59.05	33	48
<i>Saltipedis</i> sp. A	Art	Mala	143	0.32	59.37	19	28
<i>Caecum pulchellum</i>	Mol	Gast	142	0.32	59.69	27	39
<i>Diptodonta</i> (LPIL)	Mol	Biva	140	0.31	60.00	24	35
<i>Onchnesoma steenstrupi</i>	Sip	–	140	0.31	60.31	12	17
<i>Ceratonereis mirabilis</i>	Ann	Poly	139	0.31	60.63	28	41
<i>Syllis</i> (LPIL)	Ann	Poly	139	0.31	60.94	19	28
<i>Scoletoma ernesti</i>	Ann	Poly	135	0.30	61.24	24	35
<i>Chevalia</i> (LPIL)	Art	Mala	133	0.30	61.54	14	20
Hesionidae (LPIL)	Ann	Poly	132	0.30	61.83	40	58
<i>Pseudoleptochelia</i> sp. A	Art	Mala	132	0.30	62.13	10	14
<i>Mooreonuphis pallidula</i>	Ann	Poly	127	0.28	62.41	43	62
Eunicidae (LPIL)	Ann	Poly	125	0.28	62.69	42	61
<i>Rutiderma mollitum</i>	Art	Ostr	125	0.28	62.97	35	51
<i>Cadulus agassizi</i>	Mol	Scap	123	0.27	63.24	17	25
<i>Exogone dispar</i>	Ann	Poly	123	0.27	63.52	28	41
<i>Palaenotus</i> sp. A	Ann	Poly	120	0.27	63.79	39	57
<i>Batea carinata</i>	Art	Mala	117	0.26	64.05	28	41
<i>Fimbriosthenelais minor</i>	Ann	Poly	116	0.26	64.31	37	54
<i>Nereimyra</i> sp. A	Ann	Poly	116	0.26	64.57	20	29
<i>Phascolion strombi</i>	Sip	–	116	0.26	64.82	35	51
<i>Terebellides parvus</i>	Ann	Poly	115	0.26	65.08	35	51
<i>Aricidea philbinae</i>	Ann	Poly	110	0.25	65.33	12	17
<i>Gouldia cerina</i>	Mol	Biva	110	0.25	65.57	40	58
Lumbrineridae (LPIL)	Ann	Poly	109	0.24	65.82	34	49
<i>Poecilochaetus</i> (LPIL)	Ann	Poly	109	0.24	66.06	34	49
<i>Kalliapseudes</i> sp. C	Art	Mala	108	0.24	66.30	18	26
<i>Maera caroliniana</i>	Art	Mala	106	0.24	66.54	11	16
<i>Magelona</i> sp. C	Ann	Poly	106	0.24	66.78	32	46
<i>Cumella</i> sp. N	Art	Mala	105	0.23	67.01	26	38
<i>Pitar fulminatus</i>	Mol	Biva	105	0.23	67.25	36	52
<i>Elasmopus</i> sp. C	Art	Mala	104	0.23	67.48	19	28
<i>Dentatisyllis carolinae</i>	Ann	Poly	103	0.23	67.71	12	17
Nereidae (LPIL)	Ann	Poly	103	0.23	67.94	47	68
<i>Paramicrodeutopus myersi</i>	Art	Mala	102	0.23	68.17	22	32
Paraonidae (LPIL)	Ann	Poly	102	0.23	68.39	35	51
<i>Acteocina candei</i>	Mol	Gast	101	0.23	68.62	23	33
<i>Exogone rolani</i>	Ann	Poly	101	0.23	68.85	32	46
<i>Goniadides carolinae</i>	Ann	Poly	101	0.23	69.07	9	13
<i>Syllis cornuta</i>	Ann	Poly	100	0.22	69.30	24	35
<i>Prionospio cristata</i>	Ann	Poly	99	0.22	69.52	23	33
<i>Aricidea suecica</i>	Ann	Poly	94	0.21	69.73	28	41
<i>Automate</i> (LPIL)	Art	Mala	94	0.21	69.94	32	46
<i>Rutiderma gyre</i>	Art	Ostr	93	0.21	70.14	30	43
<i>Acuminodeutopus naglei</i>	Art	Mala	91	0.20	70.35	26	38
<i>Caecum floridanum</i>	Mol	Gast	91	0.20	70.55	23	33

Table 3 continued:

Taxon Name	Phylum	Class	No. of Individuals	% of Total	Cumulative %	Station Occurrence	% Station Occurrence
Ostracoda Family P	Art	Ostr	91	0.20	70.75	9	13
<i>Eusarsiella bakeri</i>	Art	Ostr	90	0.20	70.96	30	43
Gastropoda (LPIL)	Mol	Gast	90	0.20	71.16	39	57
Spionidae Genus F	Ann	Poly	89	0.20	71.36	22	32
<i>Synelmis ewingi</i>	Ann	Poly	89	0.20	71.55	19	28
<i>Automate</i> sp. D	Art	Mala	88	0.20	71.75	20	29
<i>Semele proficua</i>	Mol	Biva	88	0.20	71.95	32	46
<i>Crenella divaricata</i>	Mol	Biva	84	0.19	72.14	30	43
<i>Cyclaspis unicornis</i>	Art	Mala	82	0.18	72.32	21	30
<i>Rutiderma darbyi</i>	Art	Ostr	82	0.18	72.50	7	10
<i>Aspidosiphon</i> (LPIL)	Sip	–	81	0.18	72.68	37	54
<i>Protodorvillea kefersteini</i>	Ann	Poly	81	0.18	72.86	26	38
<i>Pakistanapseudes</i> sp. A	Art	Mala	79	0.18	73.04	20	29
<i>Owenia fusiformis</i>	Ann	Poly	78	0.17	73.22	22	32
<i>Saltipedis</i> sp. B	Art	Mala	78	0.17	73.39	18	26
<i>Acteocina lepta</i>	Mol	Gast	77	0.17	73.56	24	35
<i>Apseudes intermedius</i>	Art	Mala	77	0.17	73.73	3	4
<i>Caecum cubitatum</i>	Mol	Gast	77	0.17	73.91	20	29
<i>Santia milleri</i>	Art	Mala	77	0.17	74.08	11	16
<i>Cirrophorus lyra</i>	Ann	Poly	76	0.17	74.25	24	35
<i>Syllis lutea</i>	Ann	Poly	75	0.17	74.42	9	13
<i>Notomastus</i> (LPIL)	Ann	Poly	72	0.16	74.58	30	43
<i>Notomastus latericeus</i>	Ann	Poly	69	0.15	74.73	32	46
Onuphidae (LPIL)	Ann	Poly	68	0.15	74.88	33	48
<i>Varicorbula operculata</i>	Mol	Biva	68	0.15	75.03	30	43
<i>Notomastus tenuis</i>	Ann	Poly	67	0.15	75.18	22	32
<i>Turbellaria</i> (LPIL)	Pla	Turb	67	0.15	75.33	32	46
<i>Atys sandersoni</i>	Mol	Gast	66	0.15	75.48	15	22
<i>Podarkeopsis levifuscina</i>	Ann	Poly	65	0.15	75.63	34	49
Semelidae (LPIL)	Mol	Biva	65	0.15	75.77	21	30
<i>Tellina sybaritica</i>	Mol	Biva	65	0.15	75.92	23	33
<i>Ampelisca parapacifica</i>	Art	Mala	64	0.14	76.06	6	9
<i>Branchiostoma</i> (LPIL)	Cho	Lept	64	0.14	76.20	23	33
Manazanellidae Genus A	Mol	Biva	63	0.14	76.34	18	26
<i>Deutella incerta</i>	Art	Mala	62	0.14	76.48	25	36
<i>Lumbrineris coccinea</i>	Ann	Poly	62	0.14	76.62	27	39
<i>Eunice</i> (LPIL)	Ann	Poly	60	0.13	76.76	29	42
<i>Pionosyllis weismanni</i>	Ann	Poly	60	0.13	76.89	16	23
<i>Cheramus marginatus</i>	Art	Mala	59	0.13	77.02	23	33
<i>Cyclaspis</i> sp. N	Art	Mala	59	0.13	77.15	14	20
<i>Phtisica marina</i>	Art	Mala	59	0.13	77.29	24	35
<i>Notomastus americanus</i>	Ann	Poly	58	0.13	77.41	31	45
<i>Paraprionospio pinnata</i>	Ann	Poly	58	0.13	77.54	23	33
<i>Pionosyllis gesae</i>	Ann	Poly	58	0.13	77.67	19	28
<i>Syllis corallicola</i>	Ann	Poly	58	0.13	77.80	9	13
<i>Plakosyllis quadrioculata</i>	Ann	Poly	57	0.13	77.93	21	30
<i>Dacrydium vitreum</i>	Mol	Biva	56	0.13	78.06	9	13
<i>Tabatzius muelleri</i>	Art	Mala	56	0.13	78.18	7	10
<i>Cumella</i> (LPIL)	Art	Mala	55	0.12	78.30	32	46
<i>Horoloanthura irpex</i>	Art	Mala	55	0.12	78.43	17	25
<i>Lysidice notata</i>	Ann	Poly	55	0.12	78.55	14	20
<i>Eunice unifrons</i>	Ann	Poly	54	0.12	78.67	22	32
<i>Photis pugnator</i>	Art	Mala	54	0.12	78.79	22	32
<i>Prionospio multibranchiata</i>	Ann	Poly	54	0.12	78.91	13	19
<i>Dulichchiella appendiculata</i>	Art	Mala	53	0.12	79.03	10	14
<i>Nereis pelagica</i>	Ann	Poly	53	0.12	79.15	13	19
<i>Scoloplos rubra</i>	Ann	Poly	53	0.12	79.27	25	36
<i>Sipunculus nudus</i>	Sip	–	53	0.12	79.39	21	30
<i>Pisione</i> sp. A	Ann	Poly	52	0.12	79.50	11	16
<i>Nereis micromma</i>	Ann	Poly	51	0.11	79.62	18	26
<i>Goniada teres</i>	Ann	Poly	50	0.11	79.73	16	23

Table 3 continued:

Taxon Name	Phylum	Class	No. of Individuals	% of Total	Cumulative %	Station Occurrence	% Station Occurrence
<i>Aricidea catherinae</i>	Ann	Poly	49	0.11	79.84	15	22
<i>Ceratonereis</i> (LPIL)	Ann	Poly	49	0.11	79.95	20	29
<i>Paramphinome</i> sp. B	Ann	Poly	49	0.11	80.06	23	33
<i>Protohadzia schoenerae</i>	Art	Mala	49	0.11	80.17	4	6
<i>Sthenelanella</i> sp. A	Ann	Poly	49	0.11	80.28	19	28
Tellinidae (LPIL)	Mol	Biva	49	0.11	80.39	22	32
Bryozoa (LPIL)	Bry	–	48	0.11	80.49	10	14
<i>Pseudophilomedes ambon</i>	Art	Ostr	48	0.11	80.60	20	29
<i>Musculus lateralis</i>	Mol	Biva	47	0.11	80.70	22	32
<i>Pisione remota</i>	Ann	Poly	47	0.11	80.81	7	10
<i>Ampharete</i> sp. A	Ann	Poly	46	0.10	80.91	13	19
<i>Sphaerosyllis taylori</i>	Ann	Poly	46	0.10	81.02	17	25
<i>Vaunthompsonia</i> sp. B	Art	Mala	46	0.10	81.12	12	17
<i>Amakusanthura magnifica</i>	Art	Mala	45	0.10	81.22	15	22
<i>Nuculana acuta</i>	Mol	Biva	45	0.10	81.32	13	19
<i>Odostomia</i> (LPIL)	Mol	Gast	45	0.10	81.42	9	13
<i>Polycirrus</i> (LPIL)	Ann	Poly	45	0.10	81.52	25	36
<i>Schistomeringos pectinata</i>	Ann	Poly	45	0.10	81.62	19	28
<i>Americhelidium americanum</i>	Art	Mala	44	0.10	81.72	19	28
<i>Syllis</i> sp. C	Ann	Poly	44	0.10	81.82	7	10
<i>Antalis ceratum</i>	Mol	Scap	43	0.10	81.91	13	19
<i>Campylaspis heardi</i>	Art	Mala	43	0.10	82.01	17	25
<i>Haminoea</i> sp. A	Mol	Gast	43	0.10	82.11	24	35
<i>Syllis danieli</i>	Ann	Poly	43	0.10	82.20	11	16
<i>Corbula contracta</i>	Mol	Biva	42	0.09	82.30	12	17
Montacutidae (LPIL)	Mol	Biva	42	0.09	82.39	20	29
<i>Taylorpholoe hirsuta</i>	Ann	Poly	42	0.09	82.48	15	22
<i>Laonice cirrata</i>	Ann	Poly	41	0.09	82.58	24	35
<i>Cardiomya perrostrata</i>	Mol	Biva	40	0.09	82.67	24	35
Phyllodocidae (LPIL)	Ann	Poly	40	0.09	82.75	25	36
<i>Eusarsiella</i> (LPIL)	Art	Ostr	39	0.09	82.84	26	38
<i>Gammaropsis</i> (LPIL)	Art	Mala	39	0.09	82.93	19	28
<i>Munida simplex</i>	Art	Mala	39	0.09	83.02	12	17
Pholoidea (LPIL)	Ann	Poly	39	0.09	83.10	16	23
<i>Axiothella mucosa</i>	Ann	Poly	38	0.08	83.19	12	17
<i>Paraeupolytnia</i> sp. A	Ann	Poly	38	0.08	83.27	18	26
<i>Asthenothaerus hemphilli</i>	Mol	Biva	37	0.08	83.36	20	29
<i>Cyclaspis varians</i>	Art	Mala	37	0.08	83.44	6	9
<i>Eusarsiella</i> sp. E	Art	Ostr	37	0.08	83.52	14	20
<i>Parasterope pollex</i>	Art	Ostr	37	0.08	83.60	12	17
<i>Syllis gracilis</i>	Ann	Poly	36	0.08	83.68	7	10
<i>Aglaophamus verrilli</i>	Ann	Poly	35	0.08	83.76	16	23
<i>Ampelisca vadorum</i>	Art	Mala	35	0.08	83.84	16	23
Enchytraeidae (LPIL)	Ann	Olig	35	0.08	83.92	12	17
<i>Eurydice convexa</i>	Art	Mala	35	0.08	84.00	13	19
<i>Eusarsiella pillipollicis</i>	Art	Ostr	35	0.08	84.08	19	28
<i>Lima pellucida</i>	Mol	Biva	35	0.08	84.15	17	25
<i>Lyonsia hyalina</i>	Mol	Biva	35	0.08	84.23	15	22
<i>Scotetoma</i> (LPIL)	Ann	Poly	35	0.08	84.31	5	7
Amphiuridae (LPIL)	Ech	Ophi	34	0.08	84.39	18	26
<i>Anodontia alba</i>	Mol	Biva	34	0.08	84.46	8	12
Callianassidae (LPIL)	Art	Mala	34	0.08	84.54	16	23
<i>Calyptraea centralis</i>	Mol	Gast	34	0.08	84.61	17	25
<i>Cossura soyeri</i>	Ann	Poly	34	0.08	84.69	6	9
<i>Nereis falsa</i>	Ann	Poly	34	0.08	84.77	10	14
Turridae (LPIL)	Mol	Gast	34	0.08	84.84	21	30
<i>Diopatra cuprea</i>	Ann	Poly	33	0.07	84.92	24	35
<i>Glycera papillosa</i>	Ann	Poly	33	0.07	84.99	13	19
<i>Trichobranchus glacialis</i>	Ann	Poly	33	0.07	85.06	14	20
<i>Turbonilla</i> (LPIL)	Mol	Gast	33	0.07	85.14	18	26
<i>Apseudes propinquus</i>	Art	Mala	32	0.07	85.21	11	16

Table 3 continued:

Taxon Name	Phylum	Class	No. of Individuals	% of Total	Cumulative %	Station Occurrence	% Station Occurrence
Arcidae Genus A	Mol	Biva	32	0.07	85.28	1	1
<i>Dantya heardi</i>	Art	Ostr	32	0.07	85.35	10	14
<i>Ehlersia ferrugina</i>	Ann	Poly	32	0.07	85.42	12	17
<i>Euchone</i> sp. A	Ann	Poly	32	0.07	85.49	17	25
Leptognathidae (LPIL)	Art	Mala	32	0.07	85.57	7	10
<i>Pagurus</i> (LPIL)	Art	Mala	32	0.07	85.64	10	14
<i>Sthenelais</i> sp. A	Ann	Poly	32	0.07	85.71	15	22
<i>Ambloberis americana</i>	Art	Ostr	31	0.07	85.78	22	32
Aplacophora (LPIL)	Mol	Apla	31	0.07	85.85	11	16
<i>Cymatoica orientalis</i>	Mol	Biva	31	0.07	85.92	16	23
<i>Goniada maculata</i>	Ann	Poly	31	0.07	85.99	18	26
<i>Heterophoxus</i> sp. C	Art	Mala	31	0.07	86.06	4	6
<i>Limopsis sulcata</i>	Mol	Biva	31	0.07	86.12	8	12
Pectinidae (LPIL)	Mol	Biva	31	0.07	86.19	17	25
<i>Scissurella proxima</i>	Mol	Gast	31	0.07	86.26	8	12
Sigalionidae (LPIL)	Ann	Poly	31	0.07	86.33	21	30
<i>Caecum</i> (LPIL)	Mol	Gast	30	0.07	86.40	17	25
<i>Cumella garrityi</i>	Art	Mala	30	0.07	86.47	7	10
Porifera (LPIL)	Por	-	30	0.07	86.53	14	20
<i>Cumella</i> sp. L	Art	Mala	29	0.06	86.60	11	16
<i>Decamastus</i> sp. A	Ann	Poly	29	0.06	86.66	16	23
<i>Erichthonius brasiliensis</i>	Art	Mala	29	0.06	86.73	9	13
<i>Kinbergonuphis</i> sp. C	Ann	Poly	29	0.06	86.79	14	20
<i>Metharpinia floridana</i>	Art	Mala	29	0.06	86.86	9	13
<i>Photis</i> (LPIL)	Art	Mala	29	0.06	86.92	22	32
Phoxocephalidae (LPIL)	Art	Mala	29	0.06	86.99	11	16
<i>Shoemakerella cubensis</i>	Art	Mala	29	0.06	87.05	14	20
<i>Aricidea cerrutii</i>	Ann	Poly	28	0.06	87.12	16	23
<i>Bushia elegans</i>	Mol	Biva	28	0.06	87.18	11	16
<i>Ceradocus shoemakeri</i>	Art	Mala	28	0.06	87.24	5	7
Decapoda (LPIL)	Art	Mala	28	0.06	87.30	17	25
Nephtyidae (LPIL)	Ann	Poly	28	0.06	87.37	14	20
<i>Pectinaria gouldii</i>	Ann	Poly	28	0.06	87.43	18	26
<i>Pseudophilomedes polyancistrus</i>	Art	Ostr	28	0.06	87.49	4	6
<i>Ancistrosyllis hartmanae</i>	Ann	Poly	27	0.06	87.55	7	10
Echinoidea (LPIL)	Ech	Echi	27	0.06	87.61	16	23
<i>Lumbrineris latreilli</i>	Ann	Poly	27	0.06	87.67	13	19
<i>Magetona</i> (LPIL)	Ann	Poly	27	0.06	87.73	15	22
Paguridae (LPIL)	Art	Mala	27	0.06	87.79	14	20
<i>Schistomeringos rudolphi</i>	Ann	Poly	27	0.06	87.85	11	16
<i>Ceratonereis longicirrata</i>	Ann	Poly	26	0.06	87.91	7	10
<i>Exogone atlantica</i>	Ann	Poly	26	0.06	87.97	12	17
<i>Glyptoplax smithii</i>	Art	Mala	26	0.06	88.03	16	23
Goniadidae (LPIL)	Ann	Poly	26	0.06	88.09	18	26
<i>Odontosyllis enopla</i>	Ann	Poly	26	0.06	88.14	18	26
<i>Opisthodonta</i> sp. A	Ann	Poly	26	0.06	88.20	9	13
<i>Spiophanes missionensis</i>	Ann	Poly	26	0.06	88.26	13	19
<i>Caecum nitidum</i>	Mol	Gast	25	0.06	88.32	5	7
<i>Campylaspis</i> sp. O	Art	Mala	25	0.06	88.37	16	23
<i>Ceradocus sheardi</i>	Art	Mala	25	0.06	88.43	5	7
<i>Ceradocus</i> sp. C	Art	Mala	25	0.06	88.48	2	3
<i>Eusarsiella elofsoni</i>	Art	Ostr	25	0.06	88.54	16	23
<i>Glycera americana</i>	Ann	Poly	25	0.06	88.59	13	19
<i>Nereis</i> (LPIL)	Ann	Poly	25	0.06	88.65	13	19
Polynoidae (LPIL)	Ann	Poly	25	0.06	88.71	20	29
<i>Processa</i> (LPIL)	Art	Mala	25	0.06	88.76	16	23
<i>Syllis alosae</i>	Ann	Poly	25	0.06	88.82	4	6
<i>Tectonatica pusilla</i>	Mol	Gast	25	0.06	88.87	15	22
<i>Tellina listeri</i>	Mol	Biva	25	0.06	88.93	14	20
<i>Alvania auberiana</i>	Mol	Gast	24	0.05	88.98	16	23
<i>Kupellonura</i> sp. A	Art	Mala	24	0.05	89.04	6	9

Table 3 continued:

Taxon Name	Phylum	Class	No. of Individuals	% of Total	Cumulative %	Station Occurrence	% Station Occurrence
<i>Listriella carinata</i>	Art	Mala	24	0.05	89.09	7	10
<i>Netameliella barnardi</i>	Art	Mala	24	0.05	89.14	2	3
<i>Paranebalia longipes</i>	Art	Mala	24	0.05	89.20	8	12
<i>Prionospio steenstrupi</i>	Ann	Poly	24	0.05	89.25	10	14
<i>Psammolyce</i> cf. <i>spinosa</i>	Ann	Poly	24	0.05	89.31	8	12
Veneridae (LPIL)	Mol	Biva	24	0.05	89.36	18	26
<i>Atrina</i> sp. A	Mol	Biva	23	0.05	89.41	3	4
<i>Cirrophorus</i> (LPIL)	Ann	Poly	23	0.05	89.46	18	26
<i>Paranebalia belizensis</i>	Art	Mala	23	0.05	89.51	9	13
<i>Autolytus</i> (LPIL)	Ann	Poly	22	0.05	89.56	16	23
<i>Dipotydora</i> sp. D	Ann	Poly	22	0.05	89.61	4	6
<i>Dorvillea largidentis</i>	Ann	Poly	22	0.05	89.66	4	6
Ostracoda Family J	Art	Ostr	22	0.05	89.71	7	10
<i>Kalliapseudes bahamaensis</i>	Art	Mala	22	0.05	89.76	15	22
<i>Notomastus hemipodus</i>	Ann	Poly	22	0.05	89.81	16	23
Ampeliscidae (LPIL)	Art	Mala	21	0.05	89.86	8	12
<i>Aricidea finitima</i>	Ann	Poly	21	0.05	89.90	11	16
<i>Atys riiseana</i>	Mol	Gast	21	0.05	89.95	8	12
<i>Sabaco americanus</i>	Ann	Poly	21	0.05	90.00	15	22
<i>Syllis ortizi</i>	Ann	Poly	21	0.05	90.04	13	19
<i>Synasterope setisparsa</i>	Art	Ostr	21	0.05	90.09	11	16
<i>Acanthochitona pygmaea</i>	Mol	Polyp	20	0.04	90.13	3	4
<i>Aclis hendersoni</i>	Mol	Gast	20	0.04	90.18	5	7
<i>Caecum johnsoni</i>	Mol	Gast	20	0.04	90.22	9	13
<i>Calozodion wadei</i>	Art	Mala	20	0.04	90.27	5	7
Corbulidae (LPIL)	Mol	Biva	20	0.04	90.31	11	16
<i>Cyclaspis pustulata</i>	Art	Mala	20	0.04	90.36	12	17
<i>Gnathia</i> (LPIL)	Art	Mala	20	0.04	90.40	12	17
<i>Limea bronniiana</i>	Mol	Biva	20	0.04	90.45	9	13
<i>Tellina aequistriata</i>	Mol	Biva	20	0.04	90.49	8	12
<i>Tricolia bella</i>	Mol	Gast	20	0.04	90.54	2	3
<i>Vermiliopsis annulata</i>	Ann	Poly	20	0.04	90.58	5	7
<i>Cirrophorus branchiatus</i>	Ann	Poly	19	0.04	90.62	12	17
<i>Heteropodarke formalis</i>	Ann	Poly	19	0.04	90.67	10	14
<i>Caecum imbricatum</i>	Mol	Gast	18	0.04	90.71	5	7
<i>Cyclaspis bacescui</i>	Art	Mala	18	0.04	90.75	8	12
<i>Glycera</i> sp. F	Ann	Poly	18	0.04	90.79	9	13
<i>Gnathostenetroides pugio</i>	Art	Mala	18	0.04	90.83	4	6
<i>Opisthodonta</i> sp. B	Ann	Poly	18	0.04	90.87	11	16
<i>Podocoptida</i> (LPIL)	Art	Ostr	18	0.04	90.91	6	9
<i>Pterygocythereis</i> sp. A	Art	Ostr	18	0.04	90.95	11	16
<i>Semele nuculoides</i>	Mol	Biva	18	0.04	90.99	6	9
Tanaidacea (LPIL)	Art	Mala	18	0.04	91.03	9	13
<i>Aonides paucibranchiata</i>	Ann	Poly	17	0.04	91.07	6	9
<i>Chloeia viridis</i>	Ann	Poly	17	0.04	91.10	15	22
Goneplacidae (LPIL)	Art	Mala	17	0.04	91.14	9	13
<i>Hestospina</i> sp. A	Ann	Poly	17	0.04	91.18	9	13
<i>Semele bellastrata</i>	Mol	Biva	17	0.04	91.22	8	12
<i>Spiochaetopterus oculatus</i>	Ann	Poly	17	0.04	91.26	12	17
<i>Stenetrium</i> (LPIL)	Art	Mala	17	0.04	91.29	4	6
<i>Strombiformis bilineatus</i>	Mol	Gast	17	0.04	91.33	13	19
<i>Verticordia ornata</i>	Mol	Biva	17	0.04	91.37	13	19
Cerithiidae (LPIL)	Mol	Gast	16	0.04	91.41	10	14
<i>Cumella</i> sp. G	Art	Mala	16	0.04	91.44	4	6
<i>Cuspidaria obesa</i>	Mol	Biva	16	0.04	91.48	8	12
<i>Cyclaspis</i> (LPIL)	Art	Mala	16	0.04	91.51	11	16
Dorvilleidae (LPIL)	Ann	Poly	16	0.04	91.55	11	16
<i>Eusarsiella disparalis</i>	Art	Ostr	16	0.04	91.59	9	13
<i>Harmothoe imbricata</i>	Ann	Poly	16	0.04	91.62	12	17
Hyssuridae (LPIL)	Art	Mala	16	0.04	91.66	8	12
<i>Macoma tenta</i>	Mol	Biva	16	0.04	91.69	15	22

Table 3 continued:

Taxon Name	Phylum	Class	No. of Individuals	% of Total	Cumulative %	Station Occurrence	% Station Occurrence
<i>Nucula aegeensis</i>	Mol	Biva	16	0.04	91.73	7	10
<i>Nuculana concentrica</i>	Mol	Biva	16	0.04	91.76	4	6
<i>Olivella dealbata</i>	Mol	Gast	16	0.04	91.80	6	9
<i>Paracypridina floridensis</i>	Art	Ostr	16	0.04	91.84	13	19
Paratanaidae (LPIL)	Art	Mala	16	0.04	91.87	10	14
<i>Propeamusium</i> (LPIL)	Mol	Biva	16	0.04	91.91	9	13
<i>Actinoseta chelisparsa</i>	Art	Ostr	15	0.03	91.94	7	10
Aeginellidae (LPIL)	Art	Mala	15	0.03	91.97	12	17
<i>Corbula</i> (LPIL)	Mol	Biva	15	0.03	92.01	7	10
<i>Heteropodarke lyonsi</i>	Ann	Poly	15	0.03	92.04	8	12
<i>Heterospio</i> sp. A	Ann	Poly	15	0.03	92.07	9	13
<i>Leucothoe spinicarpa</i>	Art	Mala	15	0.03	92.11	5	7
Naticidae (LPIL)	Mol	Gast	15	0.03	92.14	10	14
<i>Neomegamphopus</i> (LPIL)	Art	Mala	15	0.03	92.18	6	9
Ostracoda (LPIL)	Art	Ostr	15	0.03	92.21	9	13
<i>Pleurocope floridensis</i>	Art	Mala	15	0.03	92.24	3	4
<i>Reticulocythereis</i> sp. B	Art	Ostr	15	0.03	92.28	6	9
Scaphopoda (LPIL)	Mol	Scap	15	0.03	92.31	11	16
<i>Scyphoproctus platyproctus</i>	Ann	Poly	15	0.03	92.34	4	6
Vitrinellidae (LPIL)	Mol	Gast	15	0.03	92.38	9	13
<i>Volvulella persimilis</i>	Mol	Gast	15	0.03	92.41	12	17
Acrocirridae (LPIL)	Ann	Poly	14	0.03	92.44	10	14
<i>Caulleriella cf. alata</i>	Ann	Poly	14	0.03	92.47	9	13
<i>Chevalia ariculae</i>	Art	Mala	14	0.03	92.50	1	1
<i>Dentalium</i> (LPIL)	Mol	Scap	14	0.03	92.53	7	10
Eulimidae (LPIL)	Mol	Gast	14	0.03	92.57	6	9
<i>Exogone</i> (LPIL)	Ann	Poly	14	0.03	92.60	12	17
<i>Glycera</i> sp. D	Ann	Poly	14	0.03	92.63	7	10
<i>Heterophoxus</i> sp. B	Art	Mala	14	0.03	92.66	5	7
<i>Leitoscotoptos</i> (LPIL)	Ann	Poly	14	0.03	92.69	9	13
<i>Lumbrinerides dayi</i>	Ann	Poly	14	0.03	92.72	7	10
<i>Megalomma pigmentum</i>	Ann	Poly	14	0.03	92.75	11	16
<i>Metaxyssamma uebelackerae</i>	Ann	Poly	14	0.03	92.79	8	12
<i>Monoculodes</i> sp. D	Art	Mala	14	0.03	92.82	9	13
<i>Philine sagra</i>	Mol	Gast	14	0.03	92.85	11	16
<i>Phyllodoce arenae</i>	Ann	Poly	14	0.03	92.88	12	17
Polynoidae Genus A	Ann	Poly	14	0.03	92.91	10	14
Amphipoda (LPIL)	Art	Mala	13	0.03	92.94	11	16
<i>Bathyarca</i> sp. A	Mol	Biva	13	0.03	92.97	7	10
Cuspidariidae (LPIL)	Mol	Biva	13	0.03	93.00	7	10
<i>Diaphorosoma magnavena</i>	Ann	Poly	13	0.03	93.03	4	6
Diogenidae (LPIL)	Art	Mala	13	0.03	93.06	8	12
<i>Gastrochaena hians</i>	Mol	Biva	13	0.03	93.08	7	10
<i>Gregariella coralliophaga</i>	Mol	Biva	13	0.03	93.11	2	3
<i>Grubeulepis mexicana</i>	Ann	Poly	13	0.03	93.14	8	12
<i>Haminoea elegans</i>	Mol	Gast	13	0.03	93.17	3	4
<i>Joeropsis rathbunae</i>	Art	Mala	13	0.03	93.20	4	6
<i>Kalliapseudes</i> (LPIL)	Art	Mala	13	0.03	93.23	8	12
<i>Leiocapitella</i> sp. B	Ann	Poly	13	0.03	93.26	8	12
<i>Leptognathia</i> (LPIL)	Art	Mala	13	0.03	93.29	6	9
Limidae (LPIL)	Mol	Biva	13	0.03	93.32	5	7
<i>Lumbrineriopsis gardineri</i>	Ann	Poly	13	0.03	93.35	7	10
Lysianassidae (LPIL)	Art	Mala	13	0.03	93.38	10	14
<i>Macrocallista maculata</i>	Mol	Biva	13	0.03	93.40	2	3
<i>Maera</i> (LPIL)	Art	Mala	13	0.03	93.43	5	7
<i>Magelona</i> sp. G	Ann	Poly	13	0.03	93.46	8	12
<i>Nearomya floridana</i>	Mol	Biva	13	0.03	93.49	5	7
Pleustidae (LPIL)	Art	Mala	13	0.03	93.52	6	9
<i>Scotoptos</i> (LPIL)	Ann	Poly	13	0.03	93.55	8	12
<i>Semele</i> (LPIL)	Mol	Biva	13	0.03	93.58	5	7
<i>Sthenotepis</i> sp. A	Ann	Poly	13	0.03	93.61	5	7

Table 3 continued:

Taxon Name	Phylum	Class	No. of Individuals	% of Total	Cumulative %	Station Occurrence	% Station Occurrence
<i>Strombiformis</i> (LPIL)	Mol	Gast	13	0.03	93.64	10	14
<i>Trypanosyllis coeliaca</i>	Ann	Poly	13	0.03	93.67	7	10
<i>Acanthohaustorius pansus</i>	Art	Mala	12	0.03	93.69	2	3
<i>Caulleriella</i> (LPIL)	Ann	Poly	12	0.03	93.72	9	13
Cnidaria (LPIL)	Cni	–	12	0.03	93.75	3	4
<i>Grubeosyllis rugulosa</i>	Ann	Poly	12	0.03	93.77	8	12
<i>Isolda pulchella</i>	Ann	Poly	12	0.03	93.80	6	9
<i>Leptosynapta</i> (LPIL)	Ech	Holo	12	0.03	93.83	7	10
<i>Limatula sefifera</i>	Mol	Biva	12	0.03	93.85	2	3
<i>Megalomma</i> (LPIL)	Ann	Poly	12	0.03	93.88	6	9
<i>Notomastus daueri</i>	Ann	Poly	12	0.03	93.91	7	10
Nuculanidae (LPIL)	Mol	Biva	12	0.03	93.93	6	9
<i>Pitar</i> (LPIL)	Mol	Biva	12	0.03	93.96	9	13
<i>Pseudamphithoides</i> sp. A	Art	Mala	12	0.03	93.99	3	4
<i>Raninoides loevis</i>	Art	Mala	12	0.03	94.01	8	12
<i>Streblosoma hartmanae</i>	Ann	Poly	12	0.03	94.04	9	13
<i>Synelmis</i> (LPIL)	Ann	Poly	12	0.03	94.07	5	7
<i>Anchialina typica</i>	Art	Mala	11	0.02	94.09	5	7
<i>Cadulus quadridentatus</i>	Mol	Scap	11	0.02	94.12	9	13
<i>Cardiomya</i> (LPIL)	Mol	Biva	11	0.02	94.14	7	10
<i>Euphrosine</i> sp. A	Ann	Poly	11	0.02	94.17	1	1
<i>Eusarsiella paniculata</i>	Art	Ostr	11	0.02	94.19	8	12
Ampharetidae Genus B	Ann	Poly	11	0.02	94.22	8	12
<i>Glycera</i> sp. E	Ann	Poly	11	0.02	94.24	10	14
<i>Golfingia</i> (LPIL)	Sip	–	11	0.02	94.26	8	12
<i>Lima lima</i>	Mol	Biva	11	0.02	94.29	7	10
<i>Linga leucocyma</i>	Mol	Biva	11	0.02	94.31	9	13
Mysidae (LPIL)	Art	Mala	11	0.02	94.34	10	14
<i>Notomastus lineatus</i>	Ann	Poly	11	0.02	94.36	7	10
<i>Paranebalia</i> (LPIL)	Art	Mala	11	0.02	94.39	6	9
<i>Phloe</i> sp. A	Ann	Poly	11	0.02	94.41	6	9
<i>Pleuromeris tridentata</i>	Mol	Biva	11	0.02	94.44	5	7
<i>Polygordius</i> (LPIL)	Ann	Poly	11	0.02	94.46	5	7
<i>Sigambra</i> (LPIL)	Ann	Poly	11	0.02	94.49	7	10
<i>Synalpheus townsendi</i>	Art	Mala	11	0.02	94.51	1	1
<i>Syrrhoites</i> sp. C	Art	Mala	11	0.02	94.54	4	6
<i>Turbonilla interrupta</i>	Mol	Gast	11	0.02	94.56	6	9
<i>Ampelisca agassizi</i>	Art	Mala	10	0.02	94.58	7	10
<i>Apistobranchus</i> sp. A	Ann	Poly	10	0.02	94.60	6	9
<i>Apseudes</i> sp. Q	Art	Mala	10	0.02	94.63	2	3
<i>Asteropella monambon</i>	Art	Ostr	10	0.02	94.65	5	7
<i>Axiopsis hirsutimana</i>	Art	Mala	10	0.02	94.67	6	9
<i>Branchiomma nigromaculata</i>	Ann	Poly	10	0.02	94.69	7	10
<i>Caecum cycloferum</i>	Mol	Gast	10	0.02	94.72	1	1
<i>Campylaspis</i> sp. E	Art	Mala	10	0.02	94.74	7	10
<i>Chione</i> (LPIL)	Mol	Biva	10	0.02	94.76	6	9
<i>Dipolydora socialis</i>	Ann	Poly	10	0.02	94.78	9	13
<i>Dorvillea sociabilis</i>	Ann	Poly	10	0.02	94.81	3	4
<i>Elasmopus</i> (LPIL)	Art	Mala	10	0.02	94.83	5	7
Eulepethidae (LPIL)	Ann	Poly	10	0.02	94.85	7	10
<i>Lima</i> (LPIL)	Mol	Biva	10	0.02	94.87	8	12
<i>Liocuna caeca</i>	Art	Mala	10	0.02	94.90	5	7
<i>Magelona</i> sp. L	Ann	Poly	10	0.02	94.92	6	9
<i>Parapionosyllis uebelackerae</i>	Ann	Poly	10	0.02	94.94	3	4
<i>Phyllodoce</i> (LPIL)	Ann	Poly	10	0.02	94.96	7	10
<i>Tricolia affinis</i>	Mol	Gast	10	0.02	94.98	4	6
<i>Acteocina bidentata</i>	Mol	Gast	9	0.02	95.00	2	3
<i>Actinocythereis</i> sp. B	Art	Ostr	9	0.02	95.02	5	7
Alpheidae (LPIL)	Art	Mala	9	0.02	95.04	6	9
<i>Alpheus</i> (LPIL)	Art	Mala	9	0.02	95.07	9	13
<i>Anomia simplex</i>	Mol	Biva	9	0.02	95.09	7	10

Table 3 continued:

Taxon Name	Phylum	Class	No. of Individuals	% of Total	Cumulative %	Station Occurrence	% Station Occurrence
<i>Aricidea wassi</i>	Ann	Poly	9	0.02	95.11	6	9
<i>Corophium</i> sp. 1	Art	Mala	9	0.02	95.13	1	1
<i>Cumella</i> sp. M	Art	Mala	9	0.02	95.15	4	6
<i>Eurydice personata</i>	Art	Mala	9	0.02	95.17	5	7
<i>Eurydice piperata</i>	Art	Mala	9	0.02	95.19	2	3
<i>Filogranula</i> sp. A	Ann	Poly	9	0.02	95.21	3	4
<i>Grubeosyllis clavata</i>	Ann	Poly	9	0.02	95.23	2	3
<i>Lumbrineris</i> sp. E	Ann	Poly	9	0.02	95.25	5	7
Majidae (LPIL)	Art	Mala	9	0.02	95.27	8	12
<i>Nuculana</i> (LPIL)	Mol	Biva	9	0.02	95.29	6	9
Oligochaeta (LPIL)	Ann	Olig	9	0.02	95.31	2	3
Orbiniidae (LPIL)	Ann	Poly	9	0.02	95.33	7	10
<i>Pandora arenosa</i>	Mol	Biva	9	0.02	95.35	5	7
<i>Pettiboneia duofurca</i>	Ann	Poly	9	0.02	95.37	8	12
<i>Pinnixa</i> (LPIL)	Art	Mala	9	0.02	95.39	6	9
<i>Pionosyllis</i> (LPIL)	Ann	Poly	9	0.02	95.41	5	7
<i>Pseudophilomedes</i> (LPIL)	Art	Ostr	9	0.02	95.43	4	6
<i>Rissoina decussata</i>	Mol	Gast	9	0.02	95.45	1	1
<i>Sansonia tuberculata</i>	Mol	Gast	9	0.02	95.47	1	1
<i>Saturnia corpulenta</i>	Mol	Biva	9	0.02	95.49	3	4
<i>Tellina similis</i>	Mol	Biva	9	0.02	95.51	4	6
Thraciidae (LPIL)	Mol	Biva	9	0.02	95.53	6	9
<i>Ampelisca</i> sp. C	Art	Mala	8	0.02	95.55	2	3
<i>Amygdalum papyria</i>	Mol	Biva	8	0.02	95.56	5	7
Apseudidae (LPIL)	Art	Mala	8	0.02	95.58	1	1
<i>Barantolla</i> sp. A	Ann	Poly	8	0.02	95.60	7	10
<i>Cautleriella</i> sp. A	Ann	Poly	8	0.02	95.62	5	7
<i>Crassinella martinicensis</i>	Mol	Biva	8	0.02	95.63	2	3
<i>Eusarsiella greyi</i>	Art	Ostr	8	0.02	95.65	5	7
<i>Kefersteinia cirrata</i>	Ann	Poly	8	0.02	95.67	5	7
<i>Leptosynapta multigranula</i>	Ech	Holo	8	0.02	95.69	5	7
<i>Liljeborgia</i> sp. A	Art	Mala	8	0.02	95.71	6	9
<i>Lumbrineris</i> sp. D	Ann	Poly	8	0.02	95.72	5	7
<i>Magelona</i> sp. 1	Ann	Poly	8	0.02	95.74	6	9
<i>Marginella</i> (LPIL)	Mol	Gast	8	0.02	95.76	7	10
<i>Nephtys simoni</i>	Ann	Poly	8	0.02	95.78	4	6
Ophiuridae (LPIL)	Ech	Ophi	8	0.02	95.80	2	3
<i>Opisthodonta</i> sp. D	Ann	Poly	8	0.02	95.81	1	1
<i>Prionospio cirrifera</i>	Ann	Poly	8	0.02	95.83	3	4
<i>Propeamussium cancellatum</i>	Mol	Biva	8	0.02	95.85	6	9
<i>Ptilanthura tenuis</i>	Art	Mala	8	0.02	95.87	4	6
<i>Scoloplos texana</i>	Ann	Poly	8	0.02	95.89	6	9
<i>Spiophanes bombyx</i>	Ann	Poly	8	0.02	95.90	6	9
<i>Spiophanes wigleyi</i>	Ann	Poly	8	0.02	95.92	2	3
<i>Turbonilla conradi</i>	Mol	Gast	8	0.02	95.94	7	10
<i>Upogebia</i> (LPIL)	Art	Mala	8	0.02	95.96	2	3
<i>Westwoodilla</i> sp. A	Art	Mala	8	0.02	95.97	8	12
<i>Aonides mayaguezensis</i>	Ann	Poly	7	0.02	95.99	4	6
Aphroditidae (LPIL)	Ann	Poly	7	0.02	96.01	6	9
<i>Apoprionospio dayi</i>	Ann	Poly	7	0.02	96.02	2	3
<i>Asclerocheilus mexicanus</i>	Ann	Poly	7	0.02	96.04	3	4
<i>Calliostoma pulchrum</i>	Mol	Gast	7	0.02	96.05	3	4
<i>Cumacea</i> (LPIL)	Art	Mala	7	0.02	96.07	5	7
<i>Eurysyllis tuberculata</i>	Ann	Poly	7	0.02	96.08	3	4
Gnathiidae (LPIL)	Art	Mala	7	0.02	96.10	4	6
Hamineidae (LPIL)	Mol	Gast	7	0.02	96.12	5	7
<i>Haplosyllis floridana</i>	Ann	Poly	7	0.02	96.13	1	1
<i>Harpinia</i> sp. A	Art	Mala	7	0.02	96.15	2	3
<i>Heterophoxus</i> (LPIL)	Art	Mala	7	0.02	96.16	3	4
<i>Laevicardium</i> (LPIL)	Mol	Biva	7	0.02	96.18	4	6
<i>Marginella aureocincta</i>	Mol	Gast	7	0.02	96.19	6	9

Table 3 continued:

Taxon Name	Phylum	Class	No. of Individuals	% of Total	Cumulative %	Station Occurrence	% Station Occurrence
<i>Megalomma lobiferum</i>	Ann	Poly	7	0.02	96.21	5	7
<i>Metatiron triocellatus</i>	Art	Mala	7	0.02	96.23	4	6
<i>Mitrella lunata</i>	Mol	Gast	7	0.02	96.24	3	4
Mytilidae (LPIL)	Mol	Biva	7	0.02	96.26	6	9
<i>Neomegamphopus kalanii</i>	Art	Mala	7	0.02	96.27	2	3
Oweniidae (LPIL)	Ann	Poly	7	0.02	96.29	4	6
<i>Paracaprella tenuis</i>	Art	Mala	7	0.02	96.30	1	1
<i>Pterocypridina sex</i>	Art	Ostr	7	0.02	96.32	2	3
Scaphandridae (LPIL)	Mol	Gast	7	0.02	96.33	6	9
<i>Scolelepis texana</i>	Ann	Poly	7	0.02	96.35	6	9
<i>Solemya occidentalis</i>	Mol	Biva	7	0.02	96.37	4	6
Synopiidae (LPIL)	Art	Mala	7	0.02	96.38	4	6
<i>Teinostoma megastoma</i>	Mol	Gast	7	0.02	96.40	6	9
Trochidae (LPIL)	Mol	Gast	7	0.02	96.41	3	4
Xanthidae (LPIL)	Art	Mala	7	0.02	96.43	7	10
Aclididae (LPIL)	Mol	Gast	6	0.01	96.44	4	6
<i>Ampelisca parapanamensis</i>	Art	Mala	6	0.01	96.46	2	3
<i>Anamixis cavitura</i>	Art	Mala	6	0.01	96.47	3	4
<i>Arabella mutans</i>	Ann	Poly	6	0.01	96.48	5	7
<i>Argissa hamatipes</i>	Art	Mala	6	0.01	96.50	4	6
Asteroidea (LPIL)	Ech	Aste	6	0.01	96.51	6	9
<i>Ceratonereis irritabilis</i>	Ann	Poly	6	0.01	96.52	2	3
<i>Chaetozone</i> (LPIL)	Ann	Poly	6	0.01	96.54	4	6
<i>Chrysopetalium hernancortezae</i>	Ann	Poly	6	0.01	96.55	5	7
<i>Ctenodrilus serratus</i>	Ann	Poly	6	0.01	96.56	1	1
<i>Cyclaspis</i> sp. O	Art	Mala	6	0.01	96.58	3	4
<i>Eudevenopus honduranus</i>	Art	Mala	6	0.01	96.59	3	4
<i>Eusarsiella absens</i>	Art	Ostr	6	0.01	96.60	3	4
<i>Fauveliopsis</i> sp. A	Ann	Poly	6	0.01	96.62	4	6
Fissurellidae (LPIL)	Mol	Gast	6	0.01	96.63	2	3
<i>Heteromyxis</i> (LPIL)	Art	Mala	6	0.01	96.64	4	6
<i>Hippomedon</i> sp. B	Art	Mala	6	0.01	96.66	4	6
<i>Hypsicomus phaeotaenia</i>	Ann	Poly	6	0.01	96.67	2	3
Ischyroceridae (LPIL)	Art	Mala	6	0.01	96.68	1	1
<i>Leiocapitella</i> sp. A	Ann	Poly	6	0.01	96.70	4	6
<i>Lembos unifasciatus reductus</i>	Art	Mala	6	0.01	96.71	1	1
<i>Linga amiantus</i>	Mol	Biva	6	0.01	96.72	4	6
<i>Magelona</i> sp. J	Ann	Poly	6	0.01	96.74	4	6
<i>Meiosquilla quadridens</i>	Art	Mala	6	0.01	96.75	6	9
<i>Monoculodes</i> (LPIL)	Art	Mala	6	0.01	96.76	6	9
<i>Nereiphylla</i> sp. A	Ann	Poly	6	0.01	96.78	5	7
<i>Periclimenes</i> (LPIL)	Art	Mala	6	0.01	96.79	5	7
Pleurobranchiidae Genus A	Mol	Gast	6	0.01	96.80	3	4
<i>Podarke obscura</i>	Ann	Poly	6	0.01	96.82	4	6
<i>Polycirrus plumosus</i>	Ann	Poly	6	0.01	96.83	6	9
<i>Pseudopolydora</i> (LPIL)	Ann	Poly	6	0.01	96.84	3	4
<i>Rictaxis punctostriatus</i>	Mol	Gast	6	0.01	96.86	6	9
Rissoidae (LPIL)	Mol	Gast	6	0.01	96.87	5	7
<i>Spio pettiboneae</i>	Ann	Poly	6	0.01	96.88	6	9
<i>Tegula lividomaculata</i>	Mol	Gast	6	0.01	96.90	2	3
<i>Trypanosyllis vittigera</i>	Ann	Poly	6	0.01	96.91	2	3
<i>Upogebia</i> sp. D	Art	Mala	6	0.01	96.92	2	3
<i>Accalathura crenulata</i>	Art	Mala	5	0.01	96.94	2	3
<i>Alpheopsis labis</i>	Art	Mala	5	0.01	96.95	3	4
<i>Amphicteis scaphobranchiata</i>	Ann	Poly	5	0.01	96.96	5	7
Anthuridae (LPIL)	Art	Mala	5	0.01	96.97	4	6
<i>Calliostoma</i> (LPIL)	Mol	Gast	5	0.01	96.98	2	3
Calyptraeidae (LPIL)	Mol	Gast	5	0.01	96.99	4	6
<i>Cardiomya ornatissima</i>	Mol	Biva	5	0.01	97.00	4	6
<i>Chaetozone</i> sp. D	Ann	Poly	5	0.01	97.01	3	4
Cylindroleberididae (LPIL)	Art	Ostr	5	0.01	97.03	4	6

Table 3 continued:

Taxon Name	Phylum	Class	No. of Individuals	% of Total	Cumulative %	Station Occurrence	% Station Occurrence
<i>Decamastus</i> (LPIL)	Ann	Poly	5	0.01	97.04	4	6
<i>Diplocirrus</i> sp. A	Ann	Poly	5	0.01	97.05	5	7
Flabelligeridae (LPIL)	Ann	Poly	5	0.01	97.06	4	6
Gammaridae (LPIL)	Art	Mala	5	0.01	97.07	5	7
<i>Glycinde solitaria</i>	Ann	Poly	5	0.01	97.08	5	7
<i>Heterophilias seclusis</i>	Art	Mala	5	0.01	97.09	1	1
<i>Hippomedon</i> (LPIL)	Art	Mala	5	0.01	97.10	3	4
<i>Kinbergonuphis</i> (LPIL)	Ann	Poly	5	0.01	97.11	4	6
<i>Leptochela bermudensis</i>	Art	Mala	5	0.01	97.13	5	7
<i>Loimia medusa</i>	Ann	Poly	5	0.01	97.14	5	7
<i>Lysianopsis alba</i>	Art	Mala	5	0.01	97.15	5	7
<i>Melinna maculata</i>	Ann	Poly	5	0.01	97.16	3	4
Melphidippidae Genus A	Art	Mala	5	0.01	97.17	1	1
<i>Mesanthura floridensis</i>	Art	Mala	5	0.01	97.18	2	3
<i>Munida</i> (LPIL)	Art	Mala	5	0.01	97.19	3	4
<i>Nereiphylla fragilis</i>	Ann	Poly	5	0.01	97.20	4	6
<i>Nereis goagirana</i>	Ann	Poly	5	0.01	97.22	3	4
<i>Notocirrus</i> sp. A	Ann	Poly	5	0.01	97.23	4	6
<i>Notomastus</i> sp. A	Ann	Poly	5	0.01	97.24	5	7
<i>Odontosyllis</i> (LPIL)	Ann	Poly	5	0.01	97.25	4	6
Olividae (LPIL)	Mol	Gast	5	0.01	97.26	4	6
<i>Ophiactis savignyi</i>	Ech	Ophi	5	0.01	97.27	3	4
Parapseudidae (LPIL)	Art	Mala	5	0.01	97.28	3	4
<i>Pectinaria</i> (LPIL)	Ann	Poly	5	0.01	97.29	4	6
<i>Pherusa inflata</i>	Ann	Poly	5	0.01	97.30	4	6
<i>Phyllodoce maderiensis</i>	Ann	Poly	5	0.01	97.32	5	7
<i>Pionosyllis</i> sp. E	Ann	Poly	5	0.01	97.33	2	3
<i>Piromis roberti</i>	Ann	Poly	5	0.01	97.34	3	4
<i>Podarke</i> sp. D	Ann	Poly	5	0.01	97.35	1	1
<i>Podocerus kleidus</i>	Art	Mala	5	0.01	97.36	4	6
Podocopida Family D	Art	Ostr	5	0.01	97.37	5	7
<i>Prionotoleberis salomani</i>	Art	Ostr	5	0.01	97.38	5	7
Processidae (LPIL)	Art	Mala	5	0.01	97.39	5	7
Pteriidae (LPIL)	Mol	Biva	5	0.01	97.41	5	7
<i>Scoletoma impatiens</i>	Ann	Poly	5	0.01	97.42	3	4
<i>Sigatica carolinensis</i>	Mol	Gast	5	0.01	97.43	4	6
Turridae Genus M	Mol	Gast	5	0.01	97.44	5	7
<i>Typosyllis</i> sp. C	Ann	Poly	5	0.01	97.45	5	7
<i>Typosyllis</i> sp. E	Ann	Poly	5	0.01	97.46	3	4
Upogebiidae (LPIL)	Art	Mala	5	0.01	97.47	3	4
<i>Acteocina</i> (LPIL)	Mol	Gast	4	0.01	97.48	3	4
<i>Alvania precipitata</i>	Mol	Gast	4	0.01	97.49	1	1
<i>Amakusanthura signata</i>	Art	Mala	4	0.01	97.50	1	1
<i>Ampelisca abdita</i>	Art	Mala	4	0.01	97.51	2	3
<i>Ampelisca bicarinata</i>	Art	Mala	4	0.01	97.52	2	3
<i>Arabella iricolor</i>	Ann	Poly	4	0.01	97.53	2	3
<i>Asterina folium</i>	Ech	Aste	4	0.01	97.53	1	1
<i>Bemlos spinicarpus inermis</i>	Art	Mala	4	0.01	97.54	1	1
<i>Bowmaniella</i> (LPIL)	Art	Mala	4	0.01	97.55	4	6
<i>Bowmaniella portoricensis</i>	Art	Mala	4	0.01	97.56	3	4
<i>Brania wellfleetensis</i>	Ann	Poly	4	0.01	97.57	3	4
<i>Byblis</i> (LPIL)	Art	Mala	4	0.01	97.58	1	1
<i>Cadulus</i> (LPIL)	Mol	Scap	4	0.01	97.59	3	4
<i>Campylaspis</i> sp. M	Art	Mala	4	0.01	97.60	4	6
<i>Cerapus</i> sp. B	Art	Mala	4	0.01	97.61	2	3
Chaetopteridae (LPIL)	Ann	Poly	4	0.01	97.62	3	4
<i>Chione latilirata</i>	Mol	Biva	4	0.01	97.62	4	6
<i>Clymenella torquata</i>	Ann	Poly	4	0.01	97.63	4	6
<i>Clythrocerus</i> sp. A	Art	Mala	4	0.01	97.64	3	4
Corophiidae (LPIL)	Art	Mala	4	0.01	97.65	1	1
<i>Crepidula</i> (LPIL)	Mol	Gast	4	0.01	97.66	3	4

Table 3 continued:

Taxon Name	Phylum	Class	No. of Individuals	% of Total	Cumulative %	Station Occurrence	% Station Occurrence
<i>Cyclostrema tortuganum</i>	Mol	Gast	4	0.01	97.67	1	1
<i>Dasybranchus lunulatus</i>	Ann	Poly	4	0.01	97.68	4	6
<i>Demonax microphthalmus</i>	Ann	Poly	4	0.01	97.69	3	4
<i>Dodecaceria</i> sp. A	Ann	Poly	4	0.01	97.70	2	3
<i>Dorvillea</i> (LPIL)	Ann	Poly	4	0.01	97.70	3	4
<i>Dorvillea clavata</i>	Ann	Poly	4	0.01	97.71	4	6
<i>Garosyrrhoë bigarra</i>	Art	Mala	4	0.01	97.72	4	6
<i>Globosolembos smithi</i>	Art	Mala	4	0.01	97.73	4	6
<i>Glycera abbranchiata</i>	Ann	Poly	4	0.01	97.74	4	6
<i>Glycera</i> sp. B	Ann	Poly	4	0.01	97.75	3	4
<i>Glycymeris pectinata</i>	Mol	Biva	4	0.01	97.76	2	3
<i>Inodrillia aepynota</i>	Mol	Gast	4	0.01	97.77	1	1
Isaeidae (LPIL)	Art	Mala	4	0.01	97.78	3	4
<i>Kurtziella serga</i>	Mol	Gast	4	0.01	97.79	4	6
<i>Lacydonia miranda</i>	Ann	Poly	4	0.01	97.79	3	4
<i>Laevicardium mortoni</i>	Mol	Biva	4	0.01	97.80	2	3
<i>Leucon americanus</i>	Art	Mala	4	0.01	97.81	4	6
<i>Listriella barnardi</i>	Art	Mala	4	0.01	97.82	3	4
<i>Magelona</i> sp. D	Ann	Poly	4	0.01	97.83	3	4
<i>Meiodorvillea</i> sp. A	Ann	Poly	4	0.01	97.84	4	6
<i>Montacuta</i> sp. A	Mol	Biva	4	0.01	97.85	1	1
<i>Nemocardium peramabile</i>	Mol	Biva	4	0.01	97.86	3	4
Nuculidae (LPIL)	Mol	Biva	4	0.01	97.87	2	3
Palaemonidae (LPIL)	Art	Mala	4	0.01	97.87	3	4
<i>Pandora</i> (LPIL)	Mol	Biva	4	0.01	97.88	3	4
<i>Pariphinotus seclusis</i>	Art	Mala	4	0.01	97.89	1	1
<i>Philomedes hirutai</i>	Art	Ostr	4	0.01	97.90	1	1
Pilargiidae (LPIL)	Ann	Poly	4	0.01	97.91	4	6
<i>Pseudophilomedes ferulanus</i>	Art	Ostr	4	0.01	97.92	1	1
<i>Rildardanus laminosa</i>	Art	Mala	4	0.01	97.93	1	1
<i>Rimula frenulata</i>	Mol	Gast	4	0.01	97.94	2	3
<i>Rutiderma</i> (LPIL)	Art	Ostr	4	0.01	97.95	3	4
<i>Saltipedis</i> (LPIL)	Art	Mala	4	0.01	97.95	4	6
Sarsiellidae (LPIL)	Art	Ostr	4	0.01	97.96	2	3
Scalibregmatidae (LPIL)	Ann	Poly	4	0.01	97.97	3	4
<i>Scyphoproctus</i> (LPIL)	Ann	Poly	4	0.01	97.98	2	3
<i>Serolis mgrayi</i>	Art	Mala	4	0.01	97.99	2	3
<i>Sipunculus</i> (LPIL)	Sip	-	4	0.01	98.00	2	3
<i>Skogsbergia lernerii</i>	Art	Ostr	4	0.01	98.01	3	4
<i>Sphaerosyllis</i> (LPIL)	Ann	Poly	4	0.01	98.02	3	4
<i>Sphenia antillensis</i>	Mol	Biva	4	0.01	98.03	2	3
<i>Tanaissus</i> sp. B	Art	Mala	4	0.01	98.04	3	4
<i>Therochaeta</i> sp. A	Ann	Poly	4	0.01	98.04	3	4
Trachyleberididae (LPIL)	Art	Ostr	4	0.01	98.05	2	3
<i>Typosyllis armillaris</i>	Ann	Poly	4	0.01	98.06	3	4
<i>Upogebia affinis</i>	Art	Mala	4	0.01	98.07	3	4
<i>Vargula bullae</i>	Art	Ostr	4	0.01	98.08	2	3
<i>Acmaea</i> (LPIL)	Mol	Gast	3	0.01	98.09	1	1
<i>Alpheus bouvieri</i>	Art	Mala	3	0.01	98.09	1	1
<i>Ampelisca venetiensis</i>	Art	Mala	3	0.01	98.10	2	3
<i>Ampithoe</i> sp. C	Art	Mala	3	0.01	98.11	1	1
<i>Anachis catenata</i>	Mol	Gast	3	0.01	98.11	2	3
<i>Ancistrosyllis carolinensis</i>	Ann	Poly	3	0.01	98.12	2	3
<i>Antalis</i> (LPIL)	Mol	Scap	3	0.01	98.13	3	4
<i>Aphrogenia</i> sp. A	Ann	Poly	3	0.01	98.13	3	4
<i>Aspidosiphon</i> sp. D	Sip	-	3	0.01	98.14	3	4
<i>Asteropterygion oculitristis</i>	Art	Ostr	3	0.01	98.15	1	1
Atyidae (LPIL)	Art	Mala	3	0.01	98.15	3	4
Bodotriidae (LPIL)	Art	Mala	3	0.01	98.16	3	4
<i>Boguea</i> sp. A	Ann	Poly	3	0.01	98.17	2	3
Buccinidae (LPIL)	Mol	Gast	3	0.01	98.17	3	4

Table 3 continued:

Taxon Name	Phylum	Class	No. of Individuals	% of Total	Cumulative %	Station Occurrence	% Station Occurrence
<i>Cabira incerta</i>	Ann	Poly	3	0.01	98.18	2	3
<i>Campylaspis</i> (LPIL)	Art	Mala	3	0.01	98.19	3	4
Caprellidae (LPIL)	Art	Mala	3	0.01	98.19	3	4
<i>Ceratocuma</i> sp. B	Art	Mala	3	0.01	98.20	1	1
<i>Chama macerophylla</i>	Mol	Biva	3	0.01	98.21	2	3
<i>Chione cancellata</i>	Mol	Biva	3	0.01	98.21	3	4
<i>Cirriiformia</i> sp. A	Ann	Poly	3	0.01	98.22	3	4
<i>Colomastix halichondriae</i>	Art	Mala	3	0.01	98.23	1	1
Columbellidae (LPIL)	Mol	Gast	3	0.01	98.23	2	3
<i>Corbula cymella</i>	Mol	Biva	3	0.01	98.24	2	3
<i>Cosmioconcha calliglypta</i>	Mol	Gast	3	0.01	98.25	1	1
<i>Cubanocuma</i> sp. A	Art	Mala	3	0.01	98.25	3	4
Dentaliidae (LPIL)	Mol	Scap	3	0.01	98.26	3	4
<i>Dentimargo eburneolus</i>	Mol	Gast	3	0.01	98.27	1	1
<i>Diplosyllis octodentata</i>	Ann	Poly	3	0.01	98.27	1	1
<i>Divaricella</i> (LPIL)	Mol	Biva	3	0.01	98.28	3	4
<i>Euchone</i> (LPIL)	Ann	Poly	3	0.01	98.29	2	3
<i>Eupolymnia nebulosa</i>	Ann	Poly	3	0.01	98.29	3	4
<i>Euryplax nitida</i>	Art	Mala	3	0.01	98.30	3	4
<i>Eusarsiella spinosa</i>	Art	Ostr	3	0.01	98.31	1	1
<i>Eusarsiella zostericola</i>	Art	Ostr	3	0.01	98.31	3	4
<i>Fimbriosthenelais</i> (LPIL)	Ann	Poly	3	0.01	98.32	1	1
Spionidae Genus C	Ann	Poly	3	0.01	98.33	3	4
Glycymerididae (LPIL)	Mol	Biva	3	0.01	98.33	2	3
<i>Goniada</i> (LPIL)	Ann	Poly	3	0.01	98.34	2	3
<i>Granulina ovuliformis</i>	Mol	Gast	3	0.01	98.35	3	4
<i>Grubeulepis augeneri</i>	Ann	Poly	3	0.01	98.36	2	3
<i>Haminoea</i> (LPIL)	Mol	Gast	3	0.01	98.36	3	4
<i>Haplocytheridea setipunctata</i>	Art	Ostr	3	0.01	98.37	2	3
<i>Harbansus bowenae</i>	Art	Ostr	3	0.01	98.38	2	3
<i>Harmothoe</i> (LPIL)	Ann	Poly	3	0.01	98.38	3	4
<i>Harpinia</i> (LPIL)	Art	Mala	3	0.01	98.39	3	4
<i>Harpinia</i> sp. H	Art	Mala	3	0.01	98.40	1	1
<i>Hepatus</i> (LPIL)	Art	Mala	3	0.01	98.40	2	3
<i>Hiatella arctica</i>	Mol	Biva	3	0.01	98.41	2	3
Holothuroidea (LPIL)	Ech	Holo	3	0.01	98.42	3	4
<i>Ithycythara lanceolata</i>	Mol	Gast	3	0.01	98.42	2	3
<i>Kurtziella atrostyla</i>	Mol	Gast	3	0.01	98.43	3	4
<i>Leiocapitella</i> (LPIL)	Ann	Poly	3	0.01	98.44	3	4
<i>Leptochela carinata</i>	Art	Mala	3	0.01	98.44	3	4
<i>Leptochela serratorbita</i>	Art	Mala	3	0.01	98.45	3	4
<i>Leucothoe</i> sp. I	Art	Mala	3	0.01	98.46	1	1
<i>Limopsis</i> (LPIL)	Mol	Biva	3	0.01	98.46	3	4
<i>Listriella</i> (LPIL)	Art	Mala	3	0.01	98.47	2	3
<i>Listriella</i> sp. G	Art	Mala	3	0.01	98.48	3	4
<i>Lucina muricata</i>	Mol	Biva	3	0.01	98.48	2	3
<i>Lumbrinerides</i> sp. A	Ann	Poly	3	0.01	98.49	2	3
Marginellidae (LPIL)	Mol	Gast	3	0.01	98.50	3	4
<i>Mexieulepis weberi</i>	Ann	Poly	3	0.01	98.50	3	4
<i>Myonera lamellifera</i>	Mol	Biva	3	0.01	98.51	1	1
<i>Mysella</i> (LPIL)	Mol	Biva	3	0.01	98.52	2	3
<i>Mysella planulata</i>	Mol	Biva	3	0.01	98.52	2	3
<i>Nassarius albus</i>	Mol	Gast	3	0.01	98.53	3	4
<i>Natatolana gracilis</i>	Art	Mala	3	0.01	98.54	3	4
<i>Nephtys picta</i>	Ann	Poly	3	0.01	98.54	2	3
<i>Nereimyra</i> sp. B	Ann	Poly	3	0.01	98.55	3	4
<i>Nucula</i> (LPIL)	Mol	Biva	3	0.01	98.56	3	4
Oedicerotidae (LPIL)	Art	Mala	3	0.01	98.56	3	4
<i>Osachila tuberosa</i>	Art	Mala	3	0.01	98.57	2	3
<i>Oxyurostylis</i> (LPIL)	Art	Mala	3	0.01	98.58	2	3
<i>Oxyurostylis lecrovae</i>	Art	Mala	3	0.01	98.58	2	3

Table 3 continued:

Taxon Name	Phylum	Class	No. of Individuals	% of Total	Cumulative %	Station Occurrence	% Station Occurrence
<i>Paleanotus chrysolepis</i>	Ann	Poly	3	0.01	98.59	3	4
<i>Pararicia belizensis</i>	Ann	Poly	3	0.01	98.60	2	3
<i>Periclimenes americanus</i>	Art	Mala	3	0.01	98.60	2	3
<i>Persicula pulcherrima</i>	Mol	Gast	3	0.01	98.61	2	3
Philomedidae (LPIL)	Art	Ostr	3	0.01	98.62	3	4
<i>Pilargis berkeleyae</i>	Ann	Poly	3	0.01	98.62	3	4
Pinnotheridae (LPIL)	Art	Mala	3	0.01	98.63	3	4
<i>Pista</i> (LPIL)	Ann	Poly	3	0.01	98.64	2	3
<i>Pleurobranchaea hedgepethi</i>	Mol	Gast	3	0.01	98.64	3	4
Podocopida Family P	Art	Ostr	3	0.01	98.65	1	1
<i>Pontogenia</i> sp. A	Ann	Poly	3	0.01	98.66	2	3
Pyramidellidae (LPIL)	Mol	Gast	3	0.01	98.66	3	4
<i>Sclerobregma stenocerum</i>	Ann	Poly	3	0.01	98.67	3	4
<i>Scoloplos capensis</i>	Ann	Poly	3	0.01	98.68	1	1
<i>Seguenzia moncingulata moncingulata</i>	Mol	Gast	3	0.01	98.68	1	1
<i>Spiophanes</i> (LPIL)	Ann	Poly	3	0.01	98.69	2	3
Squillidae (LPIL)	Art	Mala	3	0.01	98.70	3	4
<i>Strombiformis hemphilli</i>	Mol	Gast	3	0.01	98.70	2	3
<i>Synalpheus</i> (LPIL)	Art	Mala	3	0.01	98.71	3	4
<i>Synopia ultramarina</i>	Art	Mala	3	0.01	98.72	3	4
<i>Tellina tenella</i>	Mol	Biva	3	0.01	98.72	3	4
<i>Thyone</i> (LPIL)	Ech	Holo	3	0.01	98.73	2	3
<i>Trapezioplax tridentata</i>	Art	Mala	3	0.01	98.74	3	4
<i>Tricolia</i> (LPIL)	Mol	Gast	3	0.01	98.74	2	3
Tubulanidae (LPIL)	Rhy	Anop	3	0.01	98.75	1	1
<i>Verticordia</i> (LPIL)	Mol	Biva	3	0.01	98.76	3	4
<i>Abra lioica</i>	Mol	Biva	2	0.00	98.76	2	3
<i>Actinocythereis</i> (LPIL)	Art	Ostr	2	0.00	98.77	1	1
<i>Actinocythereis</i> sp. C	Art	Ostr	2	0.00	98.77	2	3
<i>Alpheus floridanus</i>	Art	Mala	2	0.00	98.78	2	3
<i>Amphicteis</i> (LPIL)	Ann	Poly	2	0.00	98.78	2	3
Amphiloichidae (LPIL)	Art	Mala	2	0.00	98.78	1	1
<i>Amphilochus</i> (LPIL)	Art	Mala	2	0.00	98.79	2	3
<i>Amphiodia planispina</i>	Ech	Ophi	2	0.00	98.79	2	3
<i>Anomalocardia auberiana</i>	Mol	Biva	2	0.00	98.80	1	1
<i>Antalis antillarum</i>	Mol	Scap	2	0.00	98.80	2	3
<i>Arabella multidentata</i>	Ann	Poly	2	0.00	98.81	2	3
Arcidae (LPIL)	Mol	Biva	2	0.00	98.81	2	3
<i>Arcturella bispinata</i>	Art	Mala	2	0.00	98.82	2	3
<i>Arene tricarinata</i>	Mol	Gast	2	0.00	98.82	1	1
<i>Armandia</i> (LPIL)	Ann	Poly	2	0.00	98.82	2	3
<i>Asteropella pax</i>	Art	Ostr	2	0.00	98.83	2	3
<i>Atys</i> (LPIL)	Mol	Gast	2	0.00	98.83	2	3
<i>Atys guildingi</i>	Mol	Gast	2	0.00	98.84	2	3
<i>Axiothella</i> sp. A	Ann	Poly	2	0.00	98.84	1	1
<i>Batea</i> (LPIL)	Art	Mala	2	0.00	98.85	1	1
Bateidae (LPIL)	Art	Mala	2	0.00	98.85	1	1
<i>Bemlos spinicarpus spinicarpus</i>	Art	Mala	2	0.00	98.86	1	1
<i>Boguella</i> sp. A	Ann	Poly	2	0.00	98.86	1	1
<i>Branchiosyllis exilis</i>	Ann	Poly	2	0.00	98.86	1	1
Caecidae (LPIL)	Mol	Gast	2	0.00	98.87	2	3
<i>Calozodion multispinosum</i>	Art	Mala	2	0.00	98.87	1	1
<i>Cerithidea</i> (LPIL)	Mol	Gast	2	0.00	98.88	1	1
<i>Cerodrillia</i> (LPIL)	Mol	Gast	2	0.00	98.88	1	1
<i>Chama</i> (LPIL)	Mol	Biva	2	0.00	98.89	2	3
<i>Clythrocerus nitidus</i>	Art	Mala	2	0.00	98.89	2	3
<i>Cryoturris citronella</i>	Mol	Gast	2	0.00	98.90	1	1
<i>Cryoturris trilincata</i>	Mol	Gast	2	0.00	98.90	1	1
<i>Cumella</i> sp. Q	Art	Mala	2	0.00	98.90	2	3
<i>Cyclaspis</i> sp. X	Art	Mala	2	0.00	98.91	2	3
Cyclostrematidae (LPIL)	Mol	Gast	2	0.00	98.91	2	3

Table 3 continued:

Taxon Name	Phylum	Class	No. of Individuals	% of Total	Cumulative %	Station Occurrence	% Station Occurrence
<i>Cylichna verrillii</i>	Mol	Gast	2	0.00	98.92	1	1
<i>Daphnella morra</i>	Mol	Gast	2	0.00	98.92	2	3
<i>Dentalium rebeccaense</i>	Mol	Scap	2	0.00	98.93	1	1
<i>Desmosoma</i> (LPIL)	Art	Mala	2	0.00	98.93	1	1
<i>Diodora</i> (LPIL)	Mol	Gast	2	0.00	98.94	2	3
<i>Drilonereis longa</i>	Ann	Poly	2	0.00	98.94	2	3
<i>Emarginula tuberculosa</i>	Mol	Gast	2	0.00	98.95	1	1
<i>Engoniophos uncinatus</i>	Mol	Gast	2	0.00	98.95	2	3
<i>Epitonium</i> (LPIL)	Mol	Gast	2	0.00	98.95	2	3
<i>Eriopisa</i> (LPIL)	Art	Mala	2	0.00	98.96	2	3
<i>Ethusa mascarone americana</i>	Art	Mala	2	0.00	98.96	2	3
<i>Exogone wolffi</i>	Ann	Poly	2	0.00	98.97	1	1
<i>Gabrielona sulcifera</i>	Mol	Gast	2	0.00	98.97	1	1
Galatheidae (LPIL)	Art	Mala	2	0.00	98.98	2	3
Glyceridae (LPIL)	Ann	Poly	2	0.00	98.98	2	3
Halacaridae (LPIL)	Art	Arac	2	0.00	98.99	1	1
<i>Haminoea succinea</i>	Mol	Gast	2	0.00	98.99	2	3
<i>Heteroserolis mgrayi</i>	Art	Mala	2	0.00	98.99	1	1
Hippolytidae (LPIL)	Art	Mala	2	0.00	99.00	2	3
<i>Hippomedon</i> sp. A	Art	Mala	2	0.00	99.00	1	1
Hirudinea (LPIL)	Ann	Hiru	2	0.00	99.01	2	3
Hydrozoa (LPIL)	Cni	Hydr	2	0.00	99.01	2	3
<i>Hypoconcha arcuata</i>	Art	Mala	2	0.00	99.02	1	1
<i>Inodrillia</i> (LPIL)	Mol	Gast	2	0.00	99.02	1	1
<i>Kurtziella</i> (LPIL)	Mol	Gast	2	0.00	99.03	2	3
<i>Kurtziella cerina</i>	Mol	Gast	2	0.00	99.03	2	3
<i>Lembos brunneomaculatus</i>	Art	Mala	2	0.00	99.03	1	1
<i>Leptocheilia</i> sp. D	Art	Mala	2	0.00	99.04	2	3
<i>Leucothoe</i> (LPIL)	Art	Mala	2	0.00	99.04	1	1
<i>Lima scabra</i>	Mol	Biva	2	0.00	99.05	2	3
<i>Lucina blanda</i>	Mol	Biva	2	0.00	99.05	2	3
<i>Lucina nassula</i>	Mol	Biva	2	0.00	99.06	1	1
<i>Lyonsia beana</i>	Mol	Biva	2	0.00	99.06	1	1
<i>Macromphalina adamsi</i>	Mol	Gast	2	0.00	99.07	1	1
<i>Malacoceros vanderhorsti</i>	Ann	Poly	2	0.00	99.07	2	3
<i>Melanella arcuata</i>	Mol	Gast	2	0.00	99.07	2	3
<i>Mesanthura</i> (LPIL)	Art	Mala	2	0.00	99.08	2	3
<i>Mesochaetopterus</i> (LPIL)	Ann	Poly	2	0.00	99.08	2	3
<i>Mystides borealis</i>	Ann	Poly	2	0.00	99.09	2	3
<i>Nephtys squamosa</i>	Ann	Poly	2	0.00	99.09	2	3
<i>Nereis grayi</i>	Ann	Poly	2	0.00	99.10	2	3
<i>Nereis panamensis</i>	Ann	Poly	2	0.00	99.10	1	1
<i>Netamelita</i> (LPIL)	Art	Mala	2	0.00	99.11	2	3
<i>Niso aeglees</i>	Mol	Gast	2	0.00	99.11	2	3
Nudibranchia (LPIL)	Mol	Gast	2	0.00	99.11	2	3
Opheliidae (LPIL)	Ann	Poly	2	0.00	99.12	1	1
<i>Ophiophragmus filigraneus</i>	Ech	Ophi	2	0.00	99.12	1	1
<i>Ophiothrix</i> (LPIL)	Ech	Ophi	2	0.00	99.13	2	3
<i>Ophiura</i> (LPIL)	Ech	Ophi	2	0.00	99.13	1	1
<i>Orbinia riseri</i>	Ann	Poly	2	0.00	99.14	2	3
<i>Paguristes</i> (LPIL)	Art	Mala	2	0.00	99.14	1	1
<i>Parasterope zeta</i>	Art	Ostr	2	0.00	99.15	2	3
<i>Parthenope fraterculus</i>	Art	Mala	2	0.00	99.15	2	3
<i>Phitomedes</i> (LPIL)	Art	Ostr	2	0.00	99.16	1	1
<i>Photis</i> sp. D	Art	Mala	2	0.00	99.16	1	1
<i>Photis</i> sp. I	Art	Mala	2	0.00	99.16	2	3
<i>Pionosyllis rioidai</i>	Ann	Poly	2	0.00	99.17	1	1
Podocopida Family F	Art	Ostr	2	0.00	99.17	2	3
<i>Polycirrus</i> sp. G	Ann	Poly	2	0.00	99.18	2	3
<i>Polydora cornuta</i>	Ann	Poly	2	0.00	99.18	2	3
<i>Pontogenia sericoma</i>	Ann	Poly	2	0.00	99.19	1	1

Table 3 continued:

Taxon Name	Phylum	Class	No. of Individuals	% of Total	Cumulative %	Station Occurrence	% Station Occurrence
<i>Prionospio heterobranchia</i>	Ann	Poly	2	0.00	99.19	1	1
<i>Processa bermudiensis</i>	Art	Mala	2	0.00	99.20	2	3
<i>Pteria colymbus</i>	Mol	Biva	2	0.00	99.20	1	1
Raninidae (LPIL)	Art	Mala	2	0.00	99.20	2	3
Rutidermatidae (LPIL)	Art	Ostr	2	0.00	99.21	2	3
<i>Scaphander punctostriatus</i>	Mol	Gast	2	0.00	99.21	1	1
<i>Schwartziella bryerea</i>	Mol	Gast	2	0.00	99.22	1	1
<i>Scolecopsis squamata</i>	Ann	Poly	2	0.00	99.22	2	3
<i>Scyllarus depressus</i>	Art	Mala	2	0.00	99.23	2	3
<i>Semele purpurascens</i>	Mol	Biva	2	0.00	99.23	2	3
<i>Sicyonia</i> (LPIL)	Art	Mala	2	0.00	99.24	2	3
<i>Sigalion</i> sp. A	Ann	Poly	2	0.00	99.24	2	3
<i>Sigambra pettiboneae</i>	Ann	Poly	2	0.00	99.24	1	1
<i>Sinelobus stanfordi</i>	Art	Mala	2	0.00	99.25	1	1
<i>Solecortus cumingianus</i>	Mol	Biva	2	0.00	99.25	2	3
<i>Solenocera atlantidis</i>	Art	Mala	2	0.00	99.26	2	3
<i>Speocarcinus lobatus</i>	Art	Mala	2	0.00	99.26	2	3
Sphaerodoridae (LPIL)	Ann	Poly	2	0.00	99.27	2	3
<i>Sphaerosyllis brevifrons</i>	Ann	Poly	2	0.00	99.27	2	3
<i>Sphaerosyllis perkinsi</i>	Ann	Poly	2	0.00	99.28	2	3
<i>Stenetrium minocule</i>	Art	Mala	2	0.00	99.28	1	1
<i>Stenetrium stebbingi</i>	Art	Mala	2	0.00	99.28	1	1
<i>Stilifer</i> sp. A	Mol	Gast	2	0.00	99.29	1	1
<i>Stylocidaris affinis</i>	Ech	Echi	2	0.00	99.29	2	3
<i>Syllides fulvus</i>	Ann	Poly	2	0.00	99.30	2	3
<i>Syllis corallicoloides</i>	Ann	Poly	2	0.00	99.30	2	3
<i>Syllis hyalina</i>	Ann	Poly	2	0.00	99.31	2	3
<i>Symethis variolosa</i>	Art	Mala	2	0.00	99.31	2	3
<i>Tabatzius</i> sp. A	Art	Mala	2	0.00	99.32	1	1
Tanaidae (LPIL)	Art	Mala	2	0.00	99.32	1	1
<i>Tellina consobrina</i>	Mol	Biva	2	0.00	99.33	1	1
<i>Thyasira trisinuata</i>	Mol	Biva	2	0.00	99.33	1	1
<i>Trachycardium muricatum</i>	Mol	Biva	2	0.00	99.33	1	1
Trichobranchidae (LPIL)	Ann	Poly	2	0.00	99.34	2	3
<i>Tryphosella</i> (LPIL)	Art	Mala	2	0.00	99.34	2	3
Turridae Genus N	Mol	Gast	2	0.00	99.35	2	3
Turritellidae (LPIL)	Mol	Gast	2	0.00	99.35	1	1
<i>Typosyllis</i> sp. M	Ann	Poly	2	0.00	99.36	1	1
<i>Westheideia minutimala</i>	Ann	Poly	2	0.00	99.36	2	3
<i>Zeidora bigelowi</i>	Mol	Gast	2	0.00	99.37	2	3
Acmaeidae (LPIL)	Mol	Gast	1	0.00	99.37	1	1
<i>Acoetes pleei</i>	Ann	Poly	1	0.00	99.37	1	1
<i>Aega dentata</i>	Art	Mala	1	0.00	99.37	1	1
<i>Allothyone mexicana</i>	Ech	Holo	1	0.00	99.37	1	1
<i>Alpheus normanni</i>	Art	Mala	1	0.00	99.38	1	1
<i>Alvania</i> (LPIL)	Mol	Gast	1	0.00	99.38	1	1
<i>Amaea retifera</i>	Mol	Gast	1	0.00	99.38	1	1
<i>Americardia media</i>	Mol	Biva	1	0.00	99.38	1	1
Amphinomidae (LPIL)	Ann	Poly	1	0.00	99.39	1	1
<i>Amphiodia trychna</i>	Ech	Ophi	1	0.00	99.39	1	1
<i>Anachis</i> (LPIL)	Mol	Gast	1	0.00	99.39	1	1
<i>Anachis floridana</i>	Mol	Gast	1	0.00	99.39	1	1
<i>Anachis lafresnayi</i>	Mol	Gast	1	0.00	99.39	1	1
<i>Anodontia</i> (LPIL)	Mol	Biva	1	0.00	99.40	1	1
<i>Aphelochaeta marioni</i>	Ann	Poly	1	0.00	99.40	1	1
<i>Arabella</i> (LPIL)	Ann	Poly	1	0.00	99.40	1	1
<i>Arca zebra</i>	Mol	Biva	1	0.00	99.40	1	1
<i>Arcopsis adamsi</i>	Mol	Biva	1	0.00	99.41	1	1
Arcturidae (LPIL)	Art	Mala	1	0.00	99.41	1	1
<i>Aricidea</i> sp. AL	Ann	Poly	1	0.00	99.41	1	1
<i>Armandia agilis</i>	Ann	Poly	1	0.00	99.41	1	1

Table 3 continued:

Taxon Name	Phylum	Class	No. of Individuals	% of Total	Cumulative %	Station Occurrence	% Station Occurrence
<i>Asclerocheilus beringianus</i>	Ann	Poly	1	0.00	99.41	1	1
<i>Astropecten duplicatus</i>	Ech	Aste	1	0.00	99.42	1	1
<i>Balanoglossus</i> (LPIL)	Hem	Ente	1	0.00	99.42	1	1
<i>Bermudactis</i> (LPIL)	Mol	Gast	1	0.00	99.42	1	1
<i>Berthella tupala</i>	Mol	Gast	1	0.00	99.42	1	1
<i>Bhawania heteroseta</i>	Ann	Poly	1	0.00	99.43	1	1
<i>Boguea</i> (LPIL)	Ann	Poly	1	0.00	99.43	1	1
<i>Bowmaniella brasiliensis</i>	Art	Mala	1	0.00	99.43	1	1
<i>Brachiomma</i> (LPIL)	Ann	Poly	1	0.00	99.43	1	1
<i>Branchiosyllis oculata</i>	Ann	Poly	1	0.00	99.43	1	1
<i>Brissus unicolor</i>	Ech	Echi	1	0.00	99.44	1	1
<i>Bulla striata</i>	Mol	Gast	1	0.00	99.44	1	1
<i>Byblis</i> sp. B	Art	Mala	1	0.00	99.44	1	1
<i>Calcareia</i> (LPIL)	Por	Calc	1	0.00	99.44	1	1
<i>Callidactylus asper</i>	Art	Mala	1	0.00	99.45	1	1
Cardiidae (LPIL)	Mol	Biva	1	0.00	99.45	1	1
<i>Carditamera floridana</i>	Mol	Biva	1	0.00	99.45	1	1
Carditidae (LPIL)	Mol	Biva	1	0.00	99.45	1	1
<i>Carpias</i> (LPIL)	Art	Mala	1	0.00	99.45	1	1
<i>Caulleriella</i> sp. K	Ann	Poly	1	0.00	99.46	1	1
<i>Ceradocus</i> (LPIL)	Art	Mala	1	0.00	99.46	1	1
<i>Ceratocuma</i> sp. A	Art	Mala	1	0.00	99.46	1	1
Cerithiidae Genus C	Mol	Gast	1	0.00	99.46	1	1
<i>Cerodrillia perryae</i>	Mol	Gast	1	0.00	99.47	1	1
<i>Cerodrillia thea</i>	Mol	Gast	1	0.00	99.47	1	1
<i>Chaetozone</i> sp. B	Ann	Poly	1	0.00	99.47	1	1
<i>Chama pellucida</i>	Mol	Biva	1	0.00	99.47	1	1
Chamidae (LPIL)	Mol	Biva	1	0.00	99.47	1	1
<i>Chione grus</i>	Mol	Biva	1	0.00	99.48	1	1
<i>Chione paphia</i>	Mol	Biva	1	0.00	99.48	1	1
<i>Chlamys benedicti</i>	Mol	Biva	1	0.00	99.48	1	1
<i>Circulus suppressus</i>	Mol	Gast	1	0.00	99.48	1	1
Cirolanidae (LPIL)	Art	Mala	1	0.00	99.49	1	1
<i>Clythrocerus</i> (LPIL)	Art	Mala	1	0.00	99.49	1	1
<i>Colomastix</i> (LPIL)	Art	Mala	1	0.00	99.49	1	1
Conidae (LPIL)	Mol	Gast	1	0.00	99.49	1	1
<i>Conus stearnsi</i>	Mol	Gast	1	0.00	99.49	1	1
<i>Corbula aequivalvis</i>	Mol	Biva	1	0.00	99.50	1	1
<i>Cossura</i> (LPIL)	Ann	Poly	1	0.00	99.50	1	1
Cossuridae (LPIL)	Ann	Poly	1	0.00	99.50	1	1
<i>Crassinella</i> (LPIL)	Mol	Biva	1	0.00	99.50	1	1
<i>Crenella</i> (LPIL)	Mol	Biva	1	0.00	99.51	1	1
<i>Crepidula maculosa</i>	Mol	Gast	1	0.00	99.51	1	1
<i>Cryoturris</i> (LPIL)	Mol	Gast	1	0.00	99.51	1	1
<i>Cryptopodia concava</i>	Art	Mala	1	0.00	99.51	1	1
<i>Cuspidaria</i> (LPIL)	Mol	Biva	1	0.00	99.51	1	1
<i>Cyclostrema cancellatum</i>	Mol	Gast	1	0.00	99.52	1	1
<i>Cylichna</i> sp. D	Mol	Gast	1	0.00	99.52	1	1
<i>Cylindrobulla</i> (LPIL)	Mol	Gast	1	0.00	99.52	1	1
Cypridinidae (LPIL)	Art	Ostr	1	0.00	99.52	1	1
Cypridinidae Genus D	Art	Ostr	1	0.00	99.53	1	1
<i>Dasybranchus lumbricoides</i>	Ann	Poly	1	0.00	99.53	1	1
<i>Demonax</i> (LPIL)	Ann	Poly	1	0.00	99.53	1	1
<i>Deutella mayeri</i>	Art	Mala	1	0.00	99.53	1	1
Diastylidae (LPIL)	Art	Mala	1	0.00	99.54	1	1
<i>Diastylis abbreviata</i>	Art	Mala	1	0.00	99.54	1	1
<i>Diodora cayenensis</i>	Mol	Gast	1	0.00	99.54	1	1
<i>Diopatra</i> cf. <i>papillata</i>	Ann	Poly	1	0.00	99.54	1	1
<i>Dosinia discus</i>	Mol	Biva	1	0.00	99.54	1	1
<i>Drillia solida</i>	Mol	Gast	1	0.00	99.55	1	1
<i>Driloneis</i> sp. E	Ann	Poly	1	0.00	99.55	1	1

Table 3 continued:

Taxon Name	Phylum	Class	No. of Individuals	% of Total	Cumulative %	Station Occurrence	% Station Occurrence
<i>Ebalia stimpsonii</i>	Art	Mala	1	0.00	99.55	1	1
<i>Echiura</i> (LPIL)	Echi	-	1	0.00	99.55	1	1
<i>Elasmopus levis</i>	Art	Mala	1	0.00	99.56	1	1
<i>Episcynia inornata</i>	Mol	Gast	1	0.00	99.56	1	1
<i>Epitonium foliaceicostum</i>	Mol	Gast	1	0.00	99.56	1	1
<i>Epitonium multistriatum</i>	Mol	Gast	1	0.00	99.56	1	1
<i>Epitonium nautlae</i>	Mol	Gast	1	0.00	99.56	1	1
<i>Eriopisa elongata</i>	Art	Mala	1	0.00	99.57	1	1
<i>Euceramus praelongus</i>	Art	Mala	1	0.00	99.57	1	1
<i>Euprognatha gracilipes</i>	Art	Mala	1	0.00	99.57	1	1
<i>Eurysquilla plumata</i>	Art	Mala	1	0.00	99.57	1	1
<i>Eurythoe</i> sp. A	Ann	Poly	1	0.00	99.58	1	1
<i>Eusarsiella cressleyi</i>	Art	Ostr	1	0.00	99.58	1	1
<i>Eusarsiella nodimarginus</i>	Art	Ostr	1	0.00	99.58	1	1
<i>Eusarsiella pax</i>	Art	Ostr	1	0.00	99.58	1	1
<i>Eusarsiella texana</i>	Art	Ostr	1	0.00	99.58	1	1
<i>Fauveliopsis</i> (LPIL)	Ann	Poly	1	0.00	99.59	1	1
<i>Fossarus compactus</i>	Mol	Gast	1	0.00	99.59	1	1
<i>Fusinus</i> sp. A	Mol	Gast	1	0.00	99.59	1	1
<i>Garosyrrhoë</i> (LPIL)	Art	Mala	1	0.00	99.59	1	1
<i>Gasteropteron rubrum</i>	Mol	Gast	1	0.00	99.60	1	1
<i>Genocidaris maculata</i>	Ech	Echi	1	0.00	99.60	1	1
Cirratulidae Genus A	Ann	Poly	1	0.00	99.60	1	1
Aclididae Genus B	Mol	Gast	1	0.00	99.60	1	1
Synopiidae Genus D	Art	Mala	1	0.00	99.60	1	1
<i>Gitanopsis laguna</i>	Art	Mala	1	0.00	99.61	1	1
<i>Glans dominguensis</i>	Mol	Biva	1	0.00	99.61	1	1
<i>Glycera</i> sp. A	Ann	Poly	1	0.00	99.61	1	1
<i>Glycinde nordmanni</i>	Ann	Poly	1	0.00	99.61	1	1
Gnathiidae Genus C	Art	Mala	1	0.00	99.62	1	1
<i>Golfingia</i> sp. W	Sip	-	1	0.00	99.62	1	1
<i>Goneplax sigsbei</i>	Art	Mala	1	0.00	99.62	1	1
Hadziidae (LPIL)	Art	Mala	1	0.00	99.62	1	1
<i>Haminoea petiti</i>	Mol	Gast	1	0.00	99.62	1	1
<i>Harbansus</i> (LPIL)	Art	Ostr	1	0.00	99.63	1	1
<i>Harbansus</i> sp. C	Art	Ostr	1	0.00	99.63	1	1
<i>Hartmanodes nyei</i>	Art	Mala	1	0.00	99.63	1	1
Hauatoriidae (LPIL)	Art	Mala	1	0.00	99.63	1	1
<i>Hemiproto wigleyi</i>	Art	Mala	1	0.00	99.64	1	1
<i>Hemus cristulipes</i>	Art	Mala	1	0.00	99.64	1	1
<i>Hesione picta</i>	Ann	Poly	1	0.00	99.64	1	1
<i>Hesionura coineaui</i>	Ann	Poly	1	0.00	99.64	1	1
<i>Heterocrypta granulata</i>	Art	Mala	1	0.00	99.64	1	1
<i>Hydroides</i> (LPIL)	Ann	Poly	1	0.00	99.65	1	1
<i>Hydroides bispinosa</i>	Ann	Poly	1	0.00	99.65	1	1
<i>Hydroides protulicola</i>	Ann	Poly	1	0.00	99.65	1	1
<i>Hypereteone heteropoda</i>	Ann	Poly	1	0.00	99.65	1	1
<i>Ithycythara psila</i>	Mol	Gast	1	0.00	99.66	1	1
<i>Kinbergonuphis simoni</i>	Ann	Poly	1	0.00	99.66	1	1
<i>Kurtziella rubella</i>	Mol	Gast	1	0.00	99.66	1	1
<i>Kurtziella</i> sp. B	Mol	Gast	1	0.00	99.66	1	1
<i>Laeonereis culveri</i>	Ann	Poly	1	0.00	99.66	1	1
<i>Laevicardium laevigatum</i>	Mol	Biva	1	0.00	99.67	1	1
<i>Lanice conchilega</i>	Ann	Poly	1	0.00	99.67	1	1
<i>Leitoscoloplos robustus</i>	Ann	Poly	1	0.00	99.67	1	1
<i>Lembos setosus</i>	Art	Mala	1	0.00	99.67	1	1
<i>Lepidasthenia varius</i>	Ann	Poly	1	0.00	99.68	1	1
<i>Leptocheila</i> (LPIL)	Art	Mala	1	0.00	99.68	1	1
<i>Leptognathia</i> sp. J	Art	Mala	1	0.00	99.68	1	1
<i>Licranthura amyle</i>	Art	Mala	1	0.00	99.68	1	1
Liljeborgiidae (LPIL)	Art	Mala	1	0.00	99.68	1	1

Table 3 continued:

Taxon Name	Phylum	Class	No. of Individuals	% of Total	Cumulative %	Station Occurrence	% Station Occurrence
<i>Limopsis cristata</i>	Mol	Biva	1	0.00	99.69	1	1
<i>Lucinoma filosum</i>	Mol	Biva	1	0.00	99.69	1	1
<i>Lumbrinerides acuta</i>	Ann	Poly	1	0.00	99.69	1	1
<i>Lumbrineris</i> (LPIL)	Ann	Poly	1	0.00	99.69	1	1
<i>Lygdamis indicus</i>	Ann	Poly	1	0.00	99.70	1	1
<i>Lysidice</i> sp. B	Ann	Poly	1	0.00	99.70	1	1
<i>Maera</i> sp. J	Art	Mala	1	0.00	99.70	1	1
<i>Maera tinkerenis</i>	Art	Mala	1	0.00	99.70	1	1
<i>Magelona</i> sp. A	Ann	Poly	1	0.00	99.70	1	1
<i>Magelona</i> sp. K	Ann	Poly	1	0.00	99.71	1	1
Magelonidae (LPIL)	Ann	Poly	1	0.00	99.71	1	1
Mallettiidae (LPIL)	Mol	Biva	1	0.00	99.71	1	1
<i>Margarites</i> sp. A	Mol	Gast	1	0.00	99.71	1	1
<i>Marphysa</i> (LPIL)	Ann	Poly	1	0.00	99.72	1	1
<i>Melanella</i> (LPIL)	Mol	Gast	1	0.00	99.72	1	1
Melaneliidae (LPIL)	Mol	Gast	1	0.00	99.72	1	1
<i>Melita</i> (LPIL)	Art	Mala	1	0.00	99.72	1	1
<i>Metaphoxus</i> sp. A	Art	Mala	1	0.00	99.73	1	1
<i>Metatiron tropakis</i>	Art	Mala	1	0.00	99.73	1	1
<i>Mexicope kensleyi</i>	Art	Mala	1	0.00	99.73	1	1
Microparasellidae Genus A	Art	Mala	1	0.00	99.73	1	1
<i>Microphrys antillensis</i>	Art	Mala	1	0.00	99.73	1	1
<i>Microspio pigmentata</i>	Ann	Poly	1	0.00	99.74	1	1
<i>Mooreonuphis</i> (LPIL)	Ann	Poly	1	0.00	99.74	1	1
Munnidae (LPIL)	Art	Mala	1	0.00	99.74	1	1
<i>Murex</i> (LPIL)	Mol	Gast	1	0.00	99.74	1	1
<i>Myriowenia</i> sp. A	Ann	Poly	1	0.00	99.75	1	1
<i>Naineris</i> (LPIL)	Ann	Poly	1	0.00	99.75	1	1
<i>Natica</i> (LPIL)	Mol	Gast	1	0.00	99.75	1	1
<i>Natica cayennensis</i>	Mol	Gast	1	0.00	99.75	1	1
<i>Neaeromya</i> sp. B	Mol	Biva	1	0.00	99.75	1	1
<i>Nebalia bipes</i>	Art	Mala	1	0.00	99.76	1	1
Nebaliidae (LPIL)	Art	Mala	1	0.00	99.76	1	1
<i>Neodrillia cydia</i>	Mol	Gast	1	0.00	99.76	1	1
<i>Neogonodactylus torus</i>	Art	Mala	1	0.00	99.76	1	1
Neomegamphopidae (LPIL)	Art	Mala	1	0.00	99.77	1	1
<i>Nephtys</i> (LPIL)	Ann	Poly	1	0.00	99.77	1	1
<i>Nereis succinea</i>	Ann	Poly	1	0.00	99.77	1	1
<i>Niso</i> sp. B	Mol	Gast	1	0.00	99.77	1	1
<i>Odontosyllis luminosa</i>	Ann	Poly	1	0.00	99.77	1	1
<i>Odostomia laevigata</i>	Mol	Gast	1	0.00	99.78	1	1
Oeonidae (LPIL)	Ann	Poly	1	0.00	99.78	1	1
<i>Oliva scripta</i>	Mol	Gast	1	0.00	99.78	1	1
<i>Olivella</i> (LPIL)	Mol	Gast	1	0.00	99.78	1	1
<i>Ophioderma</i> (LPIL)	Ech	Ophi	1	0.00	99.79	1	1
<i>Ophioderma appressum</i>	Ech	Ophi	1	0.00	99.79	1	1
Ophiodermatidae (LPIL)	Ech	Ophi	1	0.00	99.79	1	1
<i>Ophiolepis</i> (LPIL)	Ech	Ophi	1	0.00	99.79	1	1
<i>Ophiostigma isocanthum</i>	Ech	Ophi	1	0.00	99.79	1	1
<i>Ophiostigma siva</i>	Ech	Ophi	1	0.00	99.80	1	1
Ostracoda Family S	Art	Ostr	1	0.00	99.80	1	1
Ostreidae (LPIL)	Mol	Biva	1	0.00	99.80	1	1
<i>Paguristes tortugae</i>	Art	Mala	1	0.00	99.80	1	1
<i>Pakistanapseudes</i> (LPIL)	Art	Mala	1	0.00	99.81	1	1
<i>Paractaea rufopunctata nodosa</i>	Art	Mala	1	0.00	99.81	1	1
<i>Parametopella</i> (LPIL)	Art	Mala	1	0.00	99.81	1	1
<i>Parasterope</i> (LPIL)	Art	Ostr	1	0.00	99.81	1	1
<i>Parviturboides interruptus</i>	Mol	Gast	1	0.00	99.81	1	1
<i>Pectinaria regalis</i>	Ann	Poly	1	0.00	99.82	1	1
Pectinariidae (LPIL)	Ann	Poly	1	0.00	99.82	1	1
Penaeidae (LPIL)	Art	Mala	1	0.00	99.82	1	1

Table 3 continued:

Taxon Name	Phylum	Class	No. of Individuals	% of Total	Cumulative %	Station Occurrence	% Station Occurrence
<i>Periclimenaeus maxillulidens</i>	Art	Mala	1	0.00	99.82	1	1
<i>Periclimenes iridescens</i>	Art	Mala	1	0.00	99.83	1	1
Periplomatidae (LPIL)	Mol	Biva	1	0.00	99.83	1	1
<i>Persicula catenata</i>	Mol	Gast	1	0.00	99.83	1	1
<i>Phascotion</i> (LPIL)	Sip	–	1	0.00	99.83	1	1
<i>Philine</i> (LPIL)	Mol	Gast	1	0.00	99.83	1	1
<i>Phyllidiopsis papilligera</i>	Mol	Gast	1	0.00	99.84	1	1
<i>Phyllophorus arenicola</i>	Ech	Holo	1	0.00	99.84	1	1
<i>Pilumnus</i> (LPIL)	Art	Mala	1	0.00	99.84	1	1
<i>Pilumnus floridanus</i>	Art	Mala	1	0.00	99.84	1	1
<i>Pionosyllis divaricata</i>	Ann	Poly	1	0.00	99.85	1	1
<i>Pionosyllis</i> sp. D	Ann	Poly	1	0.00	99.85	1	1
<i>Pionosyllis</i> sp. O	Ann	Poly	1	0.00	99.85	1	1
<i>Pitar simpsoni</i>	Mol	Biva	1	0.00	99.85	1	1
<i>Plicatula gibbosa</i>	Mol	Biva	1	0.00	99.85	1	1
<i>Podarkeopsis</i> sp. D	Ann	Poly	1	0.00	99.86	1	1
Podocopa Family F	Art	Ostr	1	0.00	99.86	1	1
Podocopida Family E	Art	Ostr	1	0.00	99.86	1	1
Pontogeneiidae (LPIL)	Art	Mala	1	0.00	99.86	1	1
Poromyidae (LPIL)	Mol	Biva	1	0.00	99.87	1	1
<i>Portunus spinicarpus</i>	Art	Mala	1	0.00	99.87	1	1
Psammobiidae (LPIL)	Mol	Biva	1	0.00	99.87	1	1
<i>Pseudophilomedes</i> sp. B	Art	Ostr	1	0.00	99.87	1	1
<i>Pyrgocythara plicosa</i>	Mol	Gast	1	0.00	99.87	1	1
Questidae (LPIL)	Ann	Poly	1	0.00	99.88	1	1
<i>Ranilia constricta</i>	Art	Mala	1	0.00	99.88	1	1
<i>Rimakoroga floridana</i>	Art	Mala	1	0.00	99.88	1	1
<i>Rissoina</i> (LPIL)	Mol	Gast	1	0.00	99.88	1	1
<i>Sabellaria</i> sp. A	Ann	Poly	1	0.00	99.89	1	1
<i>Schizaster orbignyianus</i>	Ech	Echi	1	0.00	99.89	1	1
<i>Scissurella</i> (LPIL)	Mol	Gast	1	0.00	99.89	1	1
<i>Sclerocheilus unoculus</i>	Ann	Poly	1	0.00	99.89	1	1
<i>Scotelepis</i> (LPIL)	Ann	Poly	1	0.00	99.89	1	1
<i>Scoletoma</i> sp. B	Ann	Poly	1	0.00	99.90	1	1
<i>Sicyonia typica</i>	Art	Mala	1	0.00	99.90	1	1
Sigalionidae Genus G	Ann	Poly	1	0.00	99.90	1	1
Sipunculidae (LPIL)	Sip	–	1	0.00	99.90	1	1
<i>Skogsbergia</i> sp. A	Art	Ostr	1	0.00	99.91	1	1
<i>Solariella asperrima</i>	Mol	Gast	1	0.00	99.91	1	1
<i>Solariella lamellosa</i>	Mol	Gast	1	0.00	99.91	1	1
<i>Solemya</i> (LPIL)	Mol	Biva	1	0.00	99.91	1	1
<i>Spatangoida</i> (LPIL)	Ech	Echi	1	0.00	99.92	1	1
<i>Sphaerephesia fauchaldi</i>	Ann	Poly	1	0.00	99.92	1	1
Spirorbidae (LPIL)	Ann	Poly	1	0.00	99.92	1	1
<i>Stenoplax floridana</i>	Mol	Polyp	1	0.00	99.92	1	1
Stenothoidae (LPIL)	Art	Mala	1	0.00	99.92	1	1
<i>Stomatopoda</i> (LPIL)	Art	Mala	1	0.00	99.93	1	1
<i>Syllis broomensis</i>	Ann	Poly	1	0.00	99.93	1	1
<i>Syllis sardai</i>	Ann	Poly	1	0.00	99.93	1	1
<i>Synalpheus mcclendoni</i>	Art	Mala	1	0.00	99.93	1	1
<i>Syrrhoites</i> (LPIL)	Art	Mala	1	0.00	99.94	1	1
<i>Syrrhoites</i> sp. A	Art	Mala	1	0.00	99.94	1	1
<i>Tagelus</i> (LPIL)	Mol	Biva	1	0.00	99.94	1	1
<i>Teinostoma reclusa</i>	Mol	Gast	1	0.00	99.94	1	1
<i>Tellidora cristata</i>	Mol	Biva	1	0.00	99.94	1	1
<i>Tellina squamifera</i>	Mol	Biva	1	0.00	99.95	1	1
<i>Tellina texana</i>	Mol	Biva	1	0.00	99.95	1	1
<i>Terebra</i> (LPIL)	Mol	Gast	1	0.00	99.95	1	1
<i>Terebra benthalis</i>	Mol	Gast	1	0.00	99.95	1	1
Terebridae (LPIL)	Mol	Gast	1	0.00	99.96	1	1
<i>Thalenessa</i> sp. C	Ann	Poly	1	0.00	99.96	1	1

Table 3 continued:

Taxon Name	Phylum	Class	No. of Individuals	% of Total	Cumulative %	Station Occurrence	% Station Occurrence
<i>Thyonella pervicax</i>	Ech	Holo	1	0.00	99.96	1	1
<i>Trachycaris restrictus</i>	Art	Mala	1	0.00	99.96	1	1
<i>Tricolia thalassicola</i>	Mol	Gast	1	0.00	99.96	1	1
Tricoliidae (LPIL)	Mol	Gast	1	0.00	99.97	1	1
<i>Trypanosyllis</i> sp. C	Ann	Poly	1	0.00	99.97	1	1
Turbinidae (LPIL)	Mol	Gast	1	0.00	99.97	1	1
<i>Turbo castanea</i>	Mol	Gast	1	0.00	99.97	1	1
<i>Typosyllis amica</i>	Ann	Poly	1	0.00	99.98	1	1
<i>Unciola</i> (LPIL)	Art	Mala	1	0.00	99.98	1	1
Veneridae Genus A	Mol	Biva	1	0.00	99.98	1	1
Verticordiidae (LPIL)	Mol	Biva	1	0.00	99.98	1	1
Vitrinella Genus D	Mol	Gast	1	0.00	99.98	1	1
<i>Vitrinella multistriata</i>	Mol	Gast	1	0.00	99.99	1	1
<i>Vitrinella</i> sp. C	Mol	Gast	1	0.00	99.99	1	1
<i>Volvarina avenacea</i>	Mol	Gast	1	0.00	99.99	1	1
<i>Volvulella paupercola</i>	Mol	Gast	1	0.00	99.99	1	1
<i>Westwoodilla</i> (LPIL)	Art	Mala	1	0.00	100.00	1	1
<i>Xenosyllis cf. scabra</i>	Ann	Poly	1	0.00	100.00	1	1
<i>Zygopa michaelis</i>	Art	Mala	1	0.00	100.00	1	1

Taxa Key

Ann=Annelida

Hiru=Hirudinea

Olig=Oligochaeta

Poly=Polychaeta

Art=Arthropoda

Arac=Arachnida

Mala=Malacostraca

Ostr=Ostracoda

Bra=Brachiopoda

Bry=Bryozoa

Cni=Cnidaria

Anth=Anthozoa

Hydr=Hydrozoa

Cho=Chordata

Asci=Ascidiacea

Lept=Leptocardia

Ech=Echinodermata

Aste=Asteroidea

Echi=Echinoidea

Holo=Holothuroidea

Ophi=Ophiuroidea

Echi=Echiura

Hem=Hemichordata

Ente=Enteropneusta

Mol=Mollusca

Apla=Aplacophora

Biva=Bivalvia

Gast=Gastropoda

Polyp=Polyplacophora

Scap=Scaphopoda

Pho=Phoronida

Pla=Platyhelminthes

Turb=Turbellaria

Por=Porifera

Calc=Calcarea

Rhy=Rhynchozoela

Anop=Anopla

Sip=Sipuncula

Table 4. Summary of overall abundance of major taxonomic groups for the South Florida Gulf stations, August 1999.

Taxa	Total No. Taxa	% of Total	Total No. Individuals	% of Total
Annelida				
Hirudinea	1	0.1	2	0.0
Oligochaeta	3	0.2	759	1.7
Polychaeta	414	33.5	21,206	47.4
Mollusca				
Aplacophora	1	0.1	31	0.1
Bivalvia	153	12.4	4,909	11.0
Gastropoda	181	14.6	1,852	4.1
Polyplacophora	3	0.2	215	0.5
Scaphopoda	10	0.8	220	0.5
Arthropoda				
Aracnida	1	0.1	2	0.0
Malacostraca	335	27.1	8,191	18.3
Ostracoda	72	5.8	2,282	5.1
Echinodermata				
Asteroidea	3	0.2	11	0.0
Echinoidea	6	0.5	33	0.1
Holothuroidea	7	0.6	29	0.1
Ophiuroidea	15	1.2	348	0.8
Rhynchocoela				
	4	0.3	1,616	3.6
Sipuncula				
	14	1.1	1,622	3.6
Other Taxa				
	13	1.1	1,414	3.2
Totals	1,236		44,742	

Table 5. Summary of abundance of major taxonomic groups by station for the South Florida Gulf stations, August 1999.

Station	Taxa	No. of Taxa	% of Total	No. of Individuals	% of Total
94	Annelida	68	48.2	308	48.2
	Mollusca	25	17.7	85	13.3
	Arthropoda	40	28.3	199	31.1
	Echinodermata	3	2.1	11	1.7
	Other Taxa	5	3.5	36	5.6
	Total	141			639
101	Annelida	43	39.8	169	46.3
	Mollusca	22	20.3	72	19.7
	Arthropoda	31	28.7	63	17.2
	Echinodermata	2	1.8	2	0.5
	Other Taxa	10	9.2	59	16.1
	Total	108			365
102	Annelida	72	46.7	242	47.5
	Mollusca	29	18.8	79	15.5
	Arthropoda	40	25.9	151	29.6
	Echinodermata	3	1.9	6	1.1
	Other Taxa	10	6.4	31	6.0
	Total	154			509
103	Annelida	79	46.1	387	62.7
	Mollusca	33	19.2	86	13.9
	Arthropoda	43	25.1	87	14.1
	Echinodermata	5	2.9	9	1.4
	Other Taxa	11	6.4	48	7.7
	Total	171			617
104	Annelida	89	51.4	413	45.7
	Mollusca	34	19.6	156	17.2
	Arthropoda	40	23.1	257	28.4
	Echinodermata	1	0.5	7	0.7
	Other Taxa	9	5.2	69	7.6
	Total	173			902
109	Annelida	59	47.2	225	59.6
	Mollusca	27	21.6	75	19.8
	Arthropoda	26	20.8	40	10.6
	Echinodermata	4	3.2	7	1.8
	Other Taxa	9	7.2	30	7.9
	Total	125			377

Table 5 continued:

Station	Taxa	No. of Taxa	% of Total	No. of Individuals	% of Total
110	Annelida	89	48.6	454	57.1
	Mollusca	38	20.7	110	13.8
	Arthropoda	44	24.0	166	20.9
	Echinodermata	3	1.6	10	1.2
	Other Taxa	9	4.9	54	6.8
	Total	183		794	
111	Annelida	69	48.2	251	51.5
	Mollusca	33	23.0	99	20.3
	Arthropoda	29	20.2	73	14.9
	Echinodermata	2	1.3	17	3.4
	Other Taxa	10	6.9	47	9.6
	Total	143		487	
112	Annelida	73	44.2	412	37.8
	Mollusca	36	21.8	257	23.5
	Arthropoda	40	24.2	134	12.3
	Echinodermata	2	1.2	8	0.7
	Other Taxa	14	8.4	278	25.5
	Total	165		1,089	
113	Annelida	75	46.5	170	35.4
	Mollusca	31	19.2	148	30.8
	Arthropoda	43	26.7	128	26.7
	Echinodermata	2	1.2	5	1.0
	Other Taxa	10	6.2	28	5.8
	Total	161		479	
115	Annelida	38	40.8	119	50.6
	Mollusca	20	21.5	33	14.0
	Arthropoda	23	24.7	37	15.7
	Echinodermata	1	1.0	1	0.4
	Other Taxa	11	11.8	45	19.1
	Total	93		235	
116	Annelida	65	44.5	256	42.6
	Mollusca	36	24.6	73	12.1
	Arthropoda	33	22.6	220	36.6
	Echinodermata	2	1.3	5	0.8
	Other Taxa	10	6.8	46	7.6
	Total	146		600	
117	Annelida	70	41.1	328	49.9
	Mollusca	40	23.5	108	16.4
	Arthropoda	40	23.5	112	17.0
	Echinodermata	6	3.5	17	2.5
	Other Taxa	14	8.2	92	14.0
	Total	170		657	

Table 5 continued:

Station	Taxa	No. of Taxa	% of Total	No. of Individuals	% of Total
118	Annelida	79	47.0	338	42.8
	Mollusca	25	14.8	105	13.3
	Arthropoda	50	29.7	244	30.9
	Echinodermata	2	1.1	6	0.7
	Other Taxa	12	7.1	95	12.0
	Total	168		788	
119	Annelida	82	48.5	349	52.1
	Mollusca	24	14.2	97	14.4
	Arthropoda	49	28.9	153	22.8
	Echinodermata	2	1.1	4	0.5
	Other Taxa	12	7.1	66	9.8
	Total	169		669	
120	Annelida	84	43.5	237	34.4
	Mollusca	38	19.6	100	14.5
	Arthropoda	57	29.5	313	45.5
	Echinodermata	2	1.0	11	1.6
	Other Taxa	12	6.2	26	3.7
	Total	193		687	
121	Annelida	77	44.7	346	50.2
	Mollusca	34	19.7	127	18.4
	Arthropoda	50	29.0	165	23.9
	Echinodermata	1	0.5	8	1.1
	Other Taxa	10	5.8	42	6.1
	Total	172		688	
122	Annelida	66	53.6	226	52.9
	Mollusca	16	13.0	33	7.7
	Arthropoda	28	22.7	127	29.7
	Echinodermata	2	1.6	12	2.8
	Other Taxa	11	8.9	29	6.7
	Total	123		427	
123	Annelida	48	38.0	147	40.9
	Mollusca	40	31.7	93	25.9
	Arthropoda	30	23.8	97	27.0
	Echinodermata	2	1.5	7	1.9
	Other Taxa	6	4.7	15	4.1
	Total	126		359	
124	Annelida	96	43.4	415	41.9
	Mollusca	41	18.5	176	17.7
	Arthropoda	68	30.7	311	31.4
	Echinodermata	4	1.8	23	2.3
	Other Taxa	12	5.4	64	6.4
	Total	221		989	

Table 5 continued:

Station	Taxa	No. of Taxa	% of Total	No. of Individuals	% of Total
125	Annelida	53	37.8	161	35.6
	Mollusca	32	22.8	91	20.1
	Arthropoda	40	28.5	126	27.8
	Echinodermata	3	2.1	7	1.5
	Other Taxa	12	8.5	67	14.8
	Total	140		452	
126	Annelida	114	53.5	397	44.7
	Mollusca	35	16.4	124	13.9
	Arthropoda	52	24.4	296	33.3
	Echinodermata	1	0.4	5	0.5
	Other Taxa	11	5.1	66	7.4
	Total	213		888	
127	Annelida	117	46.2	512	49.8
	Mollusca	48	18.9	143	13.9
	Arthropoda	76	30.0	332	32.2
	Echinodermata	3	1.1	6	0.5
	Other Taxa	9	3.5	35	3.4
	Total	253		1,028	
128	Annelida	36	38.7	127	46.1
	Mollusca	26	27.9	66	24.0
	Arthropoda	19	20.4	33	12.0
	Echinodermata	1	1.0	3	1.0
	Other Taxa	11	11.8	46	16.7
	Total	93		275	
129	Annelida	65	44.2	293	55.4
	Mollusca	34	23.1	84	15.9
	Arthropoda	35	23.8	102	19.3
	Echinodermata	4	2.7	4	0.7
	Other Taxa	9	6.1	45	8.5
	Total	147		528	
130	Annelida	84	47.1	384	48.0
	Mollusca	37	20.7	89	11.1
	Arthropoda	43	24.1	246	30.7
	Echinodermata	1	0.5	4	0.5
	Other Taxa	13	7.3	76	9.5
	Total	178		799	
131	Annelida	77	47.5	335	44.5
	Mollusca	29	17.9	116	15.4
	Arthropoda	43	26.5	192	25.5
	Echinodermata	2	1.2	30	3.9
	Other Taxa	11	6.7	79	10.5
	Total	162		752	

Table 5 continued:

Station	Taxa	No. of Taxa	% of Total	No. of Individuals	% of Total
132	Annelida	98	44.7	425	41.4
	Mollusca	37	16.8	152	14.8
	Arthropoda	66	30.1	344	33.5
	Echinodermata	3	1.3	10	0.9
	Other Taxa	15	6.8	95	9.2
	Total	219		1,026	
133	Annelida	97	46.4	594	57.2
	Mollusca	39	18.6	104	10.0
	Arthropoda	55	26.3	242	23.3
	Echinodermata	4	1.9	11	1.0
	Other Taxa	14	6.6	87	8.3
	Total	209		1,038	
134	Annelida	63	36.2	240	33.4
	Mollusca	47	27.0	181	25.2
	Arthropoda	49	28.1	183	25.4
	Echinodermata	2	1.1	4	0.5
	Other Taxa	13	7.4	110	15.3
	Total	174		718	
135	Annelida	96	45.2	526	49.5
	Mollusca	43	20.2	151	14.2
	Arthropoda	58	27.3	309	29.0
	Echinodermata	4	1.8	8	0.7
	Other Taxa	11	5.1	68	6.4
	Total	212		1,062	
136	Annelida	82	47.3	332	54.4
	Mollusca	30	17.3	85	13.9
	Arthropoda	48	27.7	138	22.6
	Echinodermata	2	1.1	7	1.1
	Other Taxa	11	6.3	48	7.8
	Total	173		610	
137	Annelida	67	44.0	315	50.8
	Mollusca	32	21.0	119	19.2
	Arthropoda	34	22.3	104	16.8
	Echinodermata	8	5.2	13	2.1
	Other Taxa	11	7.2	68	10.9
	Total	152		619	
138	Annelida	83	49.4	318	48.4
	Mollusca	26	15.4	79	12.0
	Arthropoda	45	26.7	156	23.7
	Echinodermata	2	1.1	2	0.3
	Other Taxa	12	7.1	102	15.5
	Total	168		657	

Table 5 continued:

Station	Taxa	No. of Taxa	% of Total	No. of Individuals	% of Total
139	Annelida	57	44.8	293	47.9
	Mollusca	27	21.2	140	22.9
	Arthropoda	29	22.8	104	17.0
	Echinodermata	2	1.5	2	0.3
	Other Taxa	12	9.4	72	11.7
	Total	127		611	
140	Annelida	69	40.8	528	48.0
	Mollusca	29	17.1	137	12.4
	Arthropoda	62	36.6	360	32.7
	Echinodermata	1	0.5	2	0.1
	Other Taxa	8	4.7	72	6.5
	Total	169		1,099	
142	Annelida	52	53.6	211	67.4
	Mollusca	12	12.3	25	7.9
	Arthropoda	20	20.6	27	8.6
	Echinodermata	1	1.0	2	0.6
	Other Taxa	12	12.3	48	15.3
	Total	97		313	
143	Annelida	65	43.3	205	45.8
	Mollusca	39	26.0	92	20.5
	Arthropoda	37	24.6	113	25.2
	Echinodermata	1	0.6	1	0.2
	Other Taxa	8	5.3	36	8.0
	Total	150		447	
144	Annelida	73	47.7	434	57.2
	Mollusca	35	22.8	177	23.3
	Arthropoda	33	21.5	90	11.8
	Echinodermata	2	1.3	8	1.0
	Other Taxa	10	6.5	49	6.4
	Total	153		758	
145	Annelida	78	46.7	320	39.8
	Mollusca	36	21.5	162	20.1
	Arthropoda	42	25.1	182	22.6
	Echinodermata	1	0.5	10	1.2
	Other Taxa	10	5.9	130	16.1
	Total	167		804	
146	Annelida	33	32.3	264	44.5
	Mollusca	30	29.4	181	30.5
	Arthropoda	28	27.4	71	11.9
	Echinodermata	0	0.0	0	0.0
	Other Taxa	11	10.7	77	12.9
	Total	102		593	

Table 5 continued:

Station	Taxa	No. of Taxa	% of Total	No. of Individuals	% of Total
147	Annelida	62	40.2	819	57.4
	Mollusca	34	22.0	244	17.1
	Arthropoda	48	31.1	255	17.8
	Echinodermata	0	0.0	0	0.0
	Other Taxa	10	6.4	107	7.5
	Total	154			1,425
148	Annelida	52	46.0	137	36.0
	Mollusca	28	24.7	77	20.2
	Arthropoda	21	18.5	41	10.7
	Echinodermata	1	0.8	1	0.2
	Other Taxa	11	9.7	124	32.6
	Total	113			380
150	Annelida	78	50.9	377	63.7
	Mollusca	23	15.0	41	6.9
	Arthropoda	40	26.1	115	19.4
	Echinodermata	2	1.3	2	0.3
	Other Taxa	10	6.5	56	9.4
	Total	153			591
151	Annelida	38	40.0	97	38.4
	Mollusca	26	27.3	58	23.0
	Arthropoda	23	24.2	76	30.1
	Echinodermata	1	1.0	3	1.1
	Other Taxa	7	7.3	18	7.1
	Total	95			252
152	Annelida	72	43.9	288	37.1
	Mollusca	32	19.5	71	9.1
	Arthropoda	45	27.4	146	18.8
	Echinodermata	2	1.2	12	1.5
	Other Taxa	13	7.9	259	33.3
	Total	164			776
153	Annelida	36	43.3	122	37.4
	Mollusca	20	24.0	90	27.6
	Arthropoda	20	24.0	59	18.0
	Echinodermata	1	1.2	1	0.3
	Other Taxa	6	7.2	54	16.5
	Total	83			326
154	Annelida	43	42.5	213	48.1
	Mollusca	28	27.7	132	29.8
	Arthropoda	21	20.7	60	13.5
	Echinodermata	0	0.0	0	0.0
	Other Taxa	9	8.9	37	8.3
	Total	101			442

Table 5 continued:

Station	Taxa	No. of Taxa	% of Total	No. of Individuals	% of Total
155	Annelida	56	41.7	254	37.1
	Mollusca	24	17.9	103	15.0
	Arthropoda	45	33.5	273	39.9
	Echinodermata	0	0.0	0	0.0
	Other Taxa	9	6.7	54	7.8
	Total	134		684	
157	Annelida	73	47.7	340	53.2
	Mollusca	32	20.9	83	12.9
	Arthropoda	35	22.8	119	18.6
	Echinodermata	2	1.3	4	0.6
	Other Taxa	11	7.1	93	14.5
	Total	153		639	
158	Annelida	74	49.3	262	48.6
	Mollusca	21	14.0	53	9.8
	Arthropoda	44	29.3	190	35.2
	Echinodermata	1	0.6	3	0.5
	Other Taxa	10	6.6	31	5.7
	Total	150		539	
159	Annelida	20	35.7	80	37.2
	Mollusca	18	32.1	56	26.0
	Arthropoda	13	23.2	23	10.6
	Echinodermata	1	1.7	3	1.3
	Other Taxa	4	7.1	53	24.6
	Total	56		215	
160	Annelida	32	40.0	155	44.6
	Mollusca	20	25.0	93	26.8
	Arthropoda	21	26.2	81	23.3
	Echinodermata	1	1.2	1	0.2
	Other Taxa	6	7.5	17	4.8
	Total	80		347	
161	Annelida	42	41.1	262	55.3
	Mollusca	24	23.5	89	18.8
	Arthropoda	27	26.4	58	12.2
	Echinodermata	0	0.0	0	0.0
	Other Taxa	9	8.8	64	13.5
	Total	102		473	
162	Annelida	37	39.3	319	58.5
	Mollusca	20	21.2	48	8.8
	Arthropoda	30	31.9	80	14.6
	Echinodermata	0	0.0	0	0.0
	Other Taxa	7	7.4	98	17.9
	Total	94		545	

Table 5 continued:

Station	Taxa	No. of Taxa	% of Total	No. of Individuals	% of Total
163	Annelida	111	49.7	984	57.3
	Mollusca	55	24.6	293	17.0
	Arthropoda	39	17.4	234	13.6
	Echinodermata	6	2.6	17	0.9
	Other Taxa	12	5.3	188	10.9
	Total	223		1,716	
164	Annelida	57	40.7	195	39.7
	Mollusca	33	23.5	86	17.5
	Arthropoda	33	23.5	123	25.1
	Echinodermata	5	3.5	9	1.8
	Other Taxa	12	8.5	77	15.7
	Total	140		490	
165	Annelida	56	52.3	250	54.1
	Mollusca	17	15.8	50	10.8
	Arthropoda	28	26.1	125	27.0
	Echinodermata	1	0.9	1	0.2
	Other Taxa	5	4.6	36	7.7
	Total	107		462	
166	Annelida	33	42.8	139	49.6
	Mollusca	18	23.3	47	16.7
	Arthropoda	14	18.1	47	16.7
	Echinodermata	2	2.5	8	2.8
	Other Taxa	10	12.9	39	13.9
	Total	77		280	
168	Annelida	88	47.8	331	44.7
	Mollusca	39	21.1	148	20.0
	Arthropoda	47	25.5	203	27.4
	Echinodermata	2	1.0	6	0.8
	Other Taxa	8	4.3	52	7.0
	Total	184		740	
169	Annelida	61	50.4	185	51.5
	Mollusca	22	18.1	48	13.3
	Arthropoda	24	19.8	87	24.2
	Echinodermata	4	3.3	5	1.3
	Other Taxa	10	8.2	34	9.4
	Total	121		359	
170	Annelida	44	37.2	245	43.5
	Mollusca	36	30.5	136	24.1
	Arthropoda	30	25.4	116	20.6
	Echinodermata	0	0.0	0	0.0
	Other Taxa	8	6.7	65	11.5
	Total	118		562	

Table 5 continued:

Station	Taxa	No. of Taxa	% of Total	No. of Individuals	% of Total
172	Annelida	82	49.1	479	61.9
	Mollusca	31	18.5	71	9.1
	Arthropoda	42	25.1	172	22.2
	Echinodermata	2	1.1	2	0.2
	Other Taxa	10	5.9	49	6.3
	Total	167		773	
173	Annelida	76	45.2	547	49.4
	Mollusca	33	19.6	234	21.1
	Arthropoda	45	26.7	224	20.2
	Echinodermata	2	1.1	6	0.5
	Other Taxa	12	7.1	96	8.6
	Total	168		1,107	
175	Annelida	38	66.6	135	77.5
	Mollusca	7	12.2	16	9.1
	Arthropoda	9	15.7	15	8.6
	Echinodermata	0	0.0	0	0.0
	Other Taxa	3	5.2	8	4.5
	Total	57		174	
176	Annelida	78	53.7	396	54.2
	Mollusca	25	17.2	60	8.2
	Arthropoda	29	20.0	221	30.2
	Echinodermata	2	1.3	5	0.6
	Other Taxa	11	7.5	48	6.5
	Total	145		730	
177	Annelida	102	51.0	985	59.4
	Mollusca	28	14.0	131	7.9
	Arthropoda	54	27.0	412	24.8
	Echinodermata	4	2.0	14	0.8
	Other Taxa	12	6.0	115	6.9
	Total	200		1,657	
178	Annelida	35	52.2	116	62.3
	Mollusca	12	17.9	13	6.9
	Arthropoda	13	19.4	28	15.0
	Echinodermata	1	1.4	2	1.0
	Other Taxa	6	8.9	27	14.5
	Total	67		186	
179	Annelida	61	48.8	249	56.8
	Mollusca	25	20.0	46	10.5
	Arthropoda	29	23.2	65	14.8
	Echinodermata	1	0.8	1	0.2
	Other Taxa	9	7.2	77	17.5
	Total	125		438	

Table 7. Summary of the benthic macroinfaunal data for the South Florida Gulf stations, August 1999.

Station	Rep	No. of Taxa	No. of Indvs	Density (nos/m ²)	Mean No. Taxa	Taxa (SD)	Mean Density	Density (SD)	Total No. Taxa	Total No. Individuals	H' Diversity	J' Evenness
94	A	67	215	5375	67.0	6.0	5325.0	229.1	141	639	3.99	0.81
94	B	73	221	5525								
94	C	61	203	5075								
101	A	46	108	2700	51.0	5.6	3041.7	395.5	108	365	3.97	0.85
101	B	57	139	3475								
101	C	50	118	2950								
102	A	85	202	5050	69.0	15.1	4241.7	766.6	154	509	4.38	0.87
102	B	67	166	4150								
102	C	55	141	3525								
103	A	87	252	6300	77.7	17.0	5141.7	1963.2	171	617	4.52	0.88
103	B	58	115	2875								
103	C	88	250	6250								
104	A	68	202	5050	82.0	13.1	7516.7	2199.8	173	902	4.45	0.86
104	B	84	329	8225								
104	C	94	371	9275								
109	A	70	131	3275	59.3	9.7	3141.7	115.5	125	377	4.23	0.88
109	B	51	123	3075								
109	C	57	123	3075								
110	A	81	227	5675	94.0	11.5	6616.7	925.5	183	794	4.63	0.89
110	B	103	301	7525								
110	C	98	266	6650								
111	A	69	145	3625	69.3	13.5	4058.3	729.0	143	487	4.41	0.89
111	B	83	196	4900								
111	C	56	146	3650								
112	A	98	477	11925	88.0	9.5	9075.0	2635.8	165	1089	3.95	0.77
112	B	87	269	6725								
112	C	79	343	8575								
113	A	88	163	4075	77.3	9.3	3991.7	166.5	161	479	4.58	0.90
113	B	73	152	3800								
113	C	71	164	4100								
115	A	34	72	1800	40.0	5.2	1958.3	318.5	93	235	3.89	0.86
115	B	43	93	2325								
115	C	43	70	1750								
116	A	89	318	7950	67.3	18.9	5000.0	2554.9	146	600	3.68	0.74
116	B	59	140	3500								
116	C	54	142	3550								
117	A	93	245	6125	87.7	18.6	5475.0	1302.9	170	657	4.49	0.87
117	B	67	159	3975								
117	C	103	253	6325								
118	A	102	353	8825	85.0	18.7	6566.7	1962.5	168	788	4.44	0.87
118	B	65	224	5600								
118	C	88	211	5275								
119	A	75	327	8175	76.0	16.5	5575.0	2495.1	169	669	4.40	0.86
119	B	93	214	5350								
119	C	60	128	3200								
120	A	95	234	5850	92.7	24.6	5725.0	2439.9	193	687	4.81	0.91
120	B	67	129	3225								
120	C	116	324	8100								
121	A	61	113	2825	80.0	18.1	5733.3	2570.3	172	688	4.60	0.89
121	B	82	308	7700								
121	C	97	267	6675								

Table 7 continued:

Station	Rep	No. of Taxa	No. of Indvs	Density (nos/m ²)	Mean No. Taxa	Taxa (SD)	Mean Density	Density (SD)	Total No. Taxa	Total No. Individuals	H' Diversity	J' Evenness
122	A	62	159	3975	56.0	13.1	3558.3	832.3	123	427	4.25	0.88
122	B	65	164	4100								
122	C	41	104	2600								
123	A	84	229	5725	57.0	24.3	2991.7	2370.4	126	359	4.29	0.89
123	B	50	70	1750								
123	C	37	60	1500								
124	A	106	284	7100	106.3	13.5	8241.7	1023.0	221	989	4.63	0.86
124	B	120	342	8550								
124	C	93	363	9075								
125	A	35	102	2550	60.3	22.1	3766.7	1188.6	140	452	4.49	0.91
125	B	70	153	3825								
125	C	76	197	4925								
126	A	123	286	7150	100.0	27.9	7400.0	3332.0	213	888	4.68	0.87
126	B	108	434	10850								
126	C	69	168	4200								
127	A	98	251	6275	116.3	23.6	8566.7	2287.5	253	1028	5.00	0.91
127	B	108	343	8575								
127	C	143	434	10850								
128	A	34	83	2075	44.0	11.1	2291.7	534.0	93	275	3.83	0.85
128	B	42	76	1900								
128	C	56	116	2900								
129	A	47	87	2175	72.0	22.1	4400.0	1987.6	147	528	4.40	0.88
129	B	80	201	5025								
129	C	89	240	6000								
130	A	107	458	11450	85.0	25.5	6658.3	4352.3	178	799	4.59	0.89
130	B	57	118	2950								
130	C	91	223	5575								
131	A	42	83	2075	78.3	36.0	6266.7	4035.3	162	752	4.44	0.87
131	B	114	405	10125								
131	C	79	264	6600								
132	A	77	274	6850	101.7	21.5	8550.0	1532.4	219	1026	4.66	0.87
132	B	112	393	9825								
132	C	116	359	8975								
133	A	75	192	4800	92.7	31.5	8650.0	5520.6	209	1038	4.63	0.87
133	B	129	599	14975								
133	C	74	247	6175								
134	A	94	225	5625	84.3	16.7	5983.3	1397.4	174	718	4.50	0.87
134	B	94	301	7525								
134	C	65	192	4800								
135	A	108	341	8525	110.0	12.1	8850.0	2329.6	212	1062	4.63	0.86
135	B	99	268	6700								
135	C	123	453	11325								
136	A	88	233	5825	85.3	12.2	5083.3	1199.0	173	610	4.50	0.87
136	B	96	229	5725								
136	C	72	148	3700								
137	A	84	232	5800	78.7	13.8	5158.3	1517.9	152	619	4.41	0.88
137	B	63	137	3425								
137	C	89	250	6250								
138	A	72	240	6000	73.0	23.5	5475.0	1747.7	168	657	4.52	0.88
138	B	97	276	6900								
138	C	50	141	3525								
139	A	63	211	5275	63.3	1.5	5091.7	175.6	127	611	4.06	0.84
139	B	62	203	5075								
139	C	65	197	4925								

Table 7 continued:

Station	Rep	No. of Taxa	No. of Indvs	Density (nos/m ²)	Mean No. Taxa	Taxa (SD)	Mean Density	Density (SD)	Total No. Taxa	Total No. Individuals	H' Diversity	J' Evenness
140	A	94	314	7850	94.3	5.5	9158.3	1163.1	169	1099	4.34	0.85
140	B	100	403	10075								
140	C	89	382	9550								
142	A	39	96	2400	42.0	6.1	2608.3	242.8	97	313	3.68	0.80
142	B	38	102	2550								
142	C	49	115	2875								
143	A	37	63	1575	68.0	30.5	3725.0	1964.1	150	447	4.61	0.92
143	B	69	167	4175								
143	C	98	217	5425								
144	A	77	195	4875	80.3	16.3	6316.7	2000.1	153	758	4.37	0.87
144	B	66	219	5475								
144	C	98	344	8600								
145	A	115	434	10850	82.3	28.6	6700.0	3595.4	167	804	4.50	0.88
145	B	62	181	4525								
145	C	70	189	4725								
146	A	63	218	5450	54.7	8.5	4941.7	946.2	102	593	3.76	0.81
146	B	55	221	5525								
146	C	46	154	3850								
147	A	85	407	10175	86.7	5.7	11875.0	2014.5	154	1425	4.01	0.80
147	B	82	454	11350								
147	C	93	564	14100								
148	A	54	118	2950	52.0	13.1	3166.7	1561.3	113	380	3.90	0.82
148	B	64	193	4825								
148	C	38	69	1725								
150	A	53	149	3725	73.7	23.4	4925.0	2165.6	153	591	4.33	0.86
150	B	99	297	7425								
150	C	69	145	3625								
151	A	38	58	1450	47.3	8.1	2100.0	571.7	95	252	4.19	0.92
151	B	52	93	2325								
151	C	52	101	2525								
152	A	108	427	10675	76.7	33.7	6466.7	4048.3	164	776	3.90	0.77
152	B	81	245	6125								
152	C	41	104	2600								
153	A	47	135	3375	41.3	10.7	2716.7	1076.0	83	326	3.81	0.86
153	B	29	59	1475								
153	C	48	132	3300								
154	A	43	144	3600	51.7	16.8	3683.3	1351.9	101	442	4.01	0.87
154	B	41	95	2375								
154	C	71	203	5075								
155	A	79	215	5375	72.7	14.6	5700.0	2032.1	134	684	4.15	0.85
155	B	56	154	3850								
155	C	83	315	7875								
157	A	72	241	6025	71.3	8.0	5325.0	802.0	153	639	4.26	0.85
157	B	63	178	4450								
157	C	79	220	5500								
158	A	73	143	3575	75.0	5.3	4491.7	1144.9	150	539	4.50	0.90
158	B	71	165	4125								
158	C	81	231	5775								
159	A	30	51	1275	26.7	8.5	1791.7	583.8	56	215	3.43	0.85
159	B	17	67	1675								
159	C	33	97	2425								
160	A	47	137	3425	41.0	8.7	2891.7	1033.9	80	347	3.63	0.83
160	B	45	142	3550								
160	C	31	68	1700								

Table 7 continued:

Station	Rep	No. of Taxa	No. of Indvs	Density (nos/m ²)	Mean No. Taxa	Taxa (SD)	Mean Density	Density (SD)	Total No. Taxa	Total No. Individuals	H' Diversity	J' Evenness
161	A	42	75	1875	51.3	8.1	3941.7	1792.6	102	473	3.84	0.83
161	B	55	203	5075								
161	C	57	195	4875								
162	A	41	116	2900	48.7	7.5	4541.7	1548.0	94	545	3.41	0.75
162	B	56	239	5975								
162	C	49	190	4750								
163	A	129	772	19300	109.7	16.8	14300.0	5197.7	223	1716	4.39	0.81
163	B	101	357	8925								
163	C	99	587	14675								
164	A	46	96	2400	65.3	19.5	4083.3	1856.8	140	490	4.37	0.89
164	B	85	243	6075								
164	C	65	151	3775								
165	A	107	462	11550	107.0	0.0	11550.0	0.0	107	462	4.01	0.86
166	A	34	103	2575	41.0	10.4	2333.3	671.0	77	280	3.92	0.90
166	B	36	63	1575								
166	C	53	114	2850								
168	A	90	242	6050	92.7	8.3	6166.7	1204.2	184	740	4.70	0.90
168	B	86	201	5025								
168	C	102	297	7425								
169	A	34	73	1825	58.3	24.5	2991.7	1439.3	121	359	4.23	0.88
169	B	83	184	4600								
169	C	58	102	2550								
170	A	77	215	5375	65.0	12.5	4683.3	1511.3	118	562	3.99	0.84
170	B	52	118	2950								
170	C	66	229	5725								
172	A	97	315	7875	89.3	10.8	6441.7	1966.3	167	773	4.47	0.87
172	B	77	168	4200								
172	C	94	290	7250								
173	A	109	534	13350	91.3	15.4	9225.0	3734.2	168	1107	4.22	0.82
173	B	84	330	8250								
173	C	81	243	6075								
175	A	57	174	1933	57.0	0.0	1933.0	0.0	57	174	3.55	0.88
176	A	80	201	5025	74.7	7.6	6083.3	1621.4	145	730	4.07	0.82
176	B	66	211	5275								
176	C	78	318	7950								
177	A	97	468	11700	105.0	35.7	13808.3	9024.1	200	1657	3.92	0.74
177	B	74	241	6025								
177	C	144	948	23700								
178	A	33	76	760	32.7	5.5	620.0	177.8	67	186	3.90	0.93
178	B	27	42	420								
178	C	38	68	680								
179	A	62	135	3375	62.0	16.0	3650.0	1531.1	125	438	4.20	0.87
179	B	46	91	2275								
179	C	78	212	5300								

Table 8. Abundance and distribution of taxa for the South Florida transect stations, August 1999.

Taxon Name	Phylum	Class	No. of Individuals	% of Total	Cumulative %	Station Occurrence	% Station Occurrence
<i>Prionospio</i> (LPIL)	Ann	Poly	78	6.84	6.84	6	100
<i>Armandia maculata</i>	Ann	Poly	54	4.74	11.58	5	83
<i>Taylorpholoe hirsuta</i>	Ann	Poly	53	4.65	16.23	6	100
<i>Spiophanes missionensis</i>	Ann	Poly	52	4.56	20.79	5	83
Lucinidae (LPIL)	Mol	Biva	36	3.16	23.95	6	100
<i>Poecilochaetus</i> (LPIL)	Ann	Poly	36	3.16	27.11	3	50
Sipuncula (LPIL)	Sip	–	36	3.16	30.26	5	83
<i>Paramphinome</i> sp. B	Ann	Poly	32	2.81	33.07	5	83
Spionidae (LPIL)	Ann	Poly	32	2.81	35.88	6	100
Ampharetidae (LPIL)	Ann	Poly	31	2.72	38.60	6	100
Maldanidae (LPIL)	Ann	Poly	31	2.72	41.32	6	100
<i>Chone</i> (LPIL)	Ann	Poly	23	2.02	43.33	4	67
Ampharetidae Genus B	Ann	Poly	21	1.84	45.18	4	67
<i>Galathowenia oculata</i>	Ann	Poly	20	1.75	46.93	4	67
Capitellidae (LPIL)	Ann	Poly	19	1.67	48.60	6	100
Sabellidae (LPIL)	Ann	Poly	19	1.67	50.26	3	50
<i>Synelmis ewingi</i>	Ann	Poly	19	1.67	51.93	2	33
Onuphidae (LPIL)	Ann	Poly	18	1.58	53.51	5	83
Terebellidae (LPIL)	Ann	Poly	18	1.58	55.09	5	83
<i>Harbansus</i> sp. C	Art	Ostr	17	1.49	56.58	2	33
Ophiuroidea (LPIL)	Ech	Ophi	15	1.32	57.89	3	50
Bivalvia (LPIL)	Mol	Biva	14	1.23	59.12	5	83
<i>Aricidea suecica</i>	Ann	Poly	12	1.05	60.18	2	33
<i>Barantolla</i> sp. A	Ann	Poly	12	1.05	61.23	3	50
<i>Lumbrinerides dayi</i>	Ann	Poly	12	1.05	62.28	3	50
<i>Notomastus hemipodus</i>	Ann	Poly	12	1.05	63.33	3	50
Rhynchocoela (LPIL)	Rhy	–	10	0.88	64.21	4	67
<i>Sphaerosyllis brevifrons</i>	Ann	Poly	10	0.88	65.09	3	50
Cirratulidae (LPIL)	Ann	Poly	9	0.79	65.88	3	50
<i>Glycera capitata</i>	Ann	Poly	9	0.79	66.67	2	33
<i>Litocorsa antennata</i>	Ann	Poly	9	0.79	67.46	4	67
<i>Tubulanus</i> (LPIL)	Rhy	Anop	9	0.79	68.25	5	83
<i>Lima</i> (LPIL)	Mol	Biva	8	0.70	68.95	1	17
Nephtyidae (LPIL)	Ann	Poly	8	0.70	69.65	4	67
<i>Notomastus</i> (LPIL)	Ann	Poly	8	0.70	70.35	1	17
<i>Notomastus latericeus</i>	Ann	Poly	8	0.70	71.05	2	33
Veneridae (LPIL)	Mol	Biva	8	0.70	71.75	1	17
Aplacophora (LPIL)	Mol	Apla	7	0.61	72.37	1	17
<i>Goniada maculata</i>	Ann	Poly	7	0.61	72.98	4	67
<i>Ilyarachna</i> sp. A	Art	Mala	7	0.61	73.60	1	17
<i>Melinna maculata</i>	Ann	Poly	7	0.61	74.21	3	50
<i>Paraprionospio pinnata</i>	Ann	Poly	7	0.61	74.82	3	50
<i>Solemya occidentalis</i>	Mol	Biva	7	0.61	75.44	2	33
<i>Aricidea catherinae</i>	Ann	Poly	6	0.53	75.96	2	33
<i>Cadulus</i> (LPIL)	Mol	Scap	6	0.53	76.49	1	17
<i>Exogone wolfi</i>	Ann	Poly	6	0.53	77.02	2	33
Spionidae Genus F	Ann	Poly	6	0.53	77.54	3	50
<i>Glycinde solitaria</i>	Ann	Poly	6	0.53	78.07	3	50
Leptognathidae (LPIL)	Art	Mala	6	0.53	78.60	4	67
<i>Nucula aegeensis</i>	Mol	Biva	6	0.53	79.12	2	33
<i>Nuculana</i> (LPIL)	Mol	Biva	6	0.53	79.65	1	17
<i>Polycirrus</i> (LPIL)	Ann	Poly	6	0.53	80.18	1	17
<i>Cirrophorus</i> (LPIL)	Ann	Poly	5	0.44	80.61	3	50

Table 8 continued:

Taxon Name	Phylum	Class	No. of Individuals	% of Total	Cumulative %	Station Occurrence	% Station Occurrence
<i>Glycera</i> (LPIL)	Ann	Poly	5	0.44	81.05	3	50
<i>Antalis ceratum</i>	Mol	Scap	4	0.35	81.40	2	33
<i>Cirrophorus lyra</i>	Ann	Poly	4	0.35	81.75	1	17
Eunicidae (LPIL)	Ann	Poly	4	0.35	82.11	3	50
<i>Monticellina dorsobranchialis</i>	Ann	Poly	4	0.35	82.46	3	50
Semelidae (LPIL)	Mol	Biva	4	0.35	82.81	2	33
<i>Spiophanes bombyx</i>	Ann	Poly	4	0.35	83.16	2	33
Synaptidae (LPIL)	Ech	Holo	4	0.35	83.51	1	17
Asciacea (LPIL)	Cho	Asci	3	0.26	83.77	1	17
<i>Aspidosiphon</i> (LPIL)	Sip	-	3	0.26	84.04	2	33
<i>Balanoglossus</i> (LPIL)	Hem	Ente	3	0.26	84.30	2	33
<i>Cylichna</i> sp. D	Mol	Gast	3	0.26	84.56	3	50
<i>Dentaliidae</i> (LPIL)	Mol	Scap	3	0.26	84.82	2	33
Dikonophura Family A	Art	Mala	3	0.26	85.09	2	33
Echinoidea (LPIL)	Ech	Echi	3	0.26	85.35	2	33
<i>Eunice</i> (LPIL)	Ann	Poly	3	0.26	85.61	2	33
<i>Glycera americana</i>	Ann	Poly	3	0.26	85.88	1	17
<i>Goniadella</i> sp. A	Ann	Poly	3	0.26	86.14	1	17
<i>Haploops</i> sp. A	Art	Mala	3	0.26	86.40	2	33
<i>Levinsenia gracilis</i>	Ann	Poly	3	0.26	86.67	2	33
<i>Magelona</i> sp. E	Ann	Poly	3	0.26	86.93	2	33
<i>Nephtys incisa</i>	Ann	Poly	3	0.26	87.19	1	17
Paraonidae (LPIL)	Ann	Poly	3	0.26	87.46	2	33
Pholoidae (LPIL)	Ann	Poly	3	0.26	87.72	2	33
Tornidae (LPIL)	Mol	Gast	3	0.26	87.98	1	17
<i>Ampelisca venetiensis</i>	Art	Mala	2	0.18	88.16	2	33
Anarthruridae Genus A	Art	Mala	2	0.18	88.33	2	33
<i>Apsuedes</i> (LPIL)	Art	Mala	2	0.18	88.51	2	33
<i>Aricidea</i> (LPIL)	Ann	Poly	2	0.18	88.68	1	17
Asteroidea (LPIL)	Ech	Aste	2	0.18	88.86	1	17
<i>Cardiomya perrostrata</i>	Mol	Biva	2	0.18	89.04	2	33
<i>Cerithiopsis crystallinum</i>	Mol	Gast	2	0.18	89.21	1	17
<i>Chaetozone</i> (LPIL)	Ann	Poly	2	0.18	89.39	1	17
<i>Cirrophorus branchiatus</i>	Ann	Poly	2	0.18	89.56	2	33
<i>Clymenella torquata</i>	Ann	Poly	2	0.18	89.74	1	17
<i>Cossura delta</i>	Ann	Poly	2	0.18	89.91	1	17
<i>Cumella garrityi</i>	Art	Mala	2	0.18	90.09	2	33
Cypridinidae Genus C	Art	Ostr	2	0.18	90.26	2	33
<i>Decamastus</i> sp. A	Ann	Poly	2	0.18	90.44	2	33
Spionidae Genus C	Ann	Poly	2	0.18	90.61	2	33
<i>Glycera</i> sp. F	Ann	Poly	2	0.18	90.79	1	17
Gnathiidae (LPIL)	Art	Mala	2	0.18	90.96	2	33
<i>Leptochelia</i> (LPIL)	Art	Mala	2	0.18	91.14	1	17
Lineidae (LPIL)	Rhy	Anop	2	0.18	91.32	2	33
<i>Lysidice</i> sp. B	Ann	Poly	2	0.18	91.49	2	33
<i>Metanella</i> (LPIL)	Mol	Gast	2	0.18	91.67	1	17
<i>Metaphoxus</i> sp. A	Art	Mala	2	0.18	91.84	1	17
<i>Mooreonuphis pallidula</i>	Ann	Poly	2	0.18	92.02	1	17
<i>Nephtys squamosa</i>	Ann	Poly	2	0.18	92.19	2	33
<i>Notomastus americanus</i>	Ann	Poly	2	0.18	92.37	1	17
Podocopida Family C	Art	Ostr	2	0.18	92.54	1	17
<i>Scoletoma verrilli</i>	Ann	Poly	2	0.18	92.72	2	33
<i>Spatangoida</i> (LPIL)	Ech	Echi	2	0.18	92.89	1	17
<i>Sphaerosyllis piriferopsis</i>	Ann	Poly	2	0.18	93.07	1	17
<i>Spiophanes</i> (LPIL)	Ann	Poly	2	0.18	93.25	2	33
Syllidae (LPIL)	Ann	Poly	2	0.18	93.42	2	33
Tanaidacea Family A	Art	Mala	2	0.18	93.60	2	33

Table 8 continued:

Taxon Name	Phylum	Class	No. of Individuals	% of Total	Cumulative %	Station Occurrence	% Station Occurrence
<i>Terebellides parvus</i>	Ann	Poly	2	0.18	93.77	2	33
<i>Verticordia ornata</i>	Mol	Biva	2	0.18	93.95	2	33
<i>Ampelisca</i> (LPIL)	Art	Mala	1	0.09	94.04	1	17
Ampeliscidae (LPIL)	Art	Mala	1	0.09	94.12	1	17
Anarthruridae Genus B	Art	Mala	1	0.09	94.21	1	17
<i>Anodontia alba</i>	Mol	Biva	1	0.09	94.30	1	17
Aoridae (LPIL)	Art	Mala	1	0.09	94.39	1	17
<i>Aphrogenia</i> sp. A	Ann	Poly	1	0.09	94.47	1	17
<i>Aricidea finitima</i>	Ann	Poly	1	0.09	94.56	1	17
<i>Aricidea wassi</i>	Ann	Poly	1	0.09	94.65	1	17
<i>Campylaspis heardi</i>	Art	Mala	1	0.09	94.74	1	17
<i>Campylaspis</i> sp. M	Art	Mala	1	0.09	94.82	1	17
<i>Campylaspis</i> sp. U	Art	Mala	1	0.09	94.91	1	17
<i>Caulleriella</i> (LPIL)	Ann	Poly	1	0.09	95.00	1	17
Cerithiidae (LPIL)	Mol	Gast	1	0.09	95.09	1	17
Chaetopteridae (LPIL)	Ann	Poly	1	0.09	95.18	1	17
<i>Chaetozone</i> sp. D	Ann	Poly	1	0.09	95.26	1	17
<i>Desmosoma</i> sp. A	Art	Mala	1	0.09	95.35	1	17
Dorvilleidae (LPIL)	Ann	Poly	1	0.09	95.44	1	17
<i>Dulichella appendiculata</i>	Art	Mala	1	0.09	95.53	1	17
<i>Ephesiella bipapillata</i>	Ann	Poly	1	0.09	95.61	1	17
<i>Eusarsiella</i> (LPIL)	Art	Ostr	1	0.09	95.70	1	17
<i>Exogone atlantica</i>	Ann	Poly	1	0.09	95.79	1	17
<i>Exogone dispar</i>	Ann	Poly	1	0.09	95.88	1	17
<i>Fabricinuda trilobata</i>	Ann	Poly	1	0.09	95.96	1	17
Gastropoda (LPIL)	Mol	Gast	1	0.09	96.05	1	17
Glyceridae (LPIL)	Ann	Poly	1	0.09	96.14	1	17
<i>Gnathia</i> sp. A	Art	Mala	1	0.09	96.23	1	17
<i>Goniada teres</i>	Ann	Poly	1	0.09	96.32	1	17
Goniadidae (LPIL)	Ann	Poly	1	0.09	96.40	1	17
<i>Harpiniopsis</i> sp. A	Art	Mala	1	0.09	96.49	1	17
<i>Laonice cirrata</i>	Ann	Poly	1	0.09	96.58	1	17
Lasaeidae (LPIL)	Mol	Biva	1	0.09	96.67	1	17
<i>Loimia medusa</i>	Ann	Poly	1	0.09	96.75	1	17
Lumbrineridae (LPIL)	Ann	Poly	1	0.09	96.84	1	17
<i>Lumbrineris</i> sp. D	Ann	Poly	1	0.09	96.93	1	17
Lysianassidae (LPIL)	Art	Mala	1	0.09	97.02	1	17
<i>Magelona</i> (LPIL)	Ann	Poly	1	0.09	97.11	1	17
Montacutidae (LPIL)	Mol	Biva	1	0.09	97.19	1	17
Nannastacidae (LPIL)	Art	Mala	1	0.09	97.28	1	17
<i>Nemocardium peramabile</i>	Mol	Biva	1	0.09	97.37	1	17
<i>Ninoe</i> sp. A	Ann	Poly	1	0.09	97.46	1	17
Oligochaeta (LPIL)	Ann	Olig	1	0.09	97.54	1	17
Ophiuroidea Family A	Ech	Ophi	1	0.09	97.63	1	17
<i>Paralacydonia paradoxa</i>	Ann	Poly	1	0.09	97.72	1	17
<i>Paraonis uncinata</i>	Ann	Poly	1	0.09	97.81	1	17
<i>Phascolion strombi</i>	Sip	-	1	0.09	97.89	1	17
<i>Philomedes hirutai</i>	Art	Ostr	1	0.09	97.98	1	17
<i>Photis pugnator</i>	Art	Mala	1	0.09	98.07	1	17
<i>Phoxocephalus</i> (LPIL)	Art	Mala	1	0.09	98.16	1	17
<i>Phyllodoce</i> (LPIL)	Ann	Poly	1	0.09	98.25	1	17
<i>Phyllodoce arenae</i>	Ann	Poly	1	0.09	98.33	1	17
Phyllodocidae (LPIL)	Ann	Poly	1	0.09	98.42	1	17
<i>Pleurogonium</i> sp. A	Art	Mala	1	0.09	98.51	1	17
Poecilochaetidae (LPIL)	Ann	Poly	1	0.09	98.60	1	17
<i>Praxillella gracilis</i>	Ann	Poly	1	0.09	98.68	1	17
<i>Scaphander</i> sp. A	Mol	Gast	1	0.09	98.77	1	17

Table 8 continued:

Taxon Name	Phylum	Class	No. of Individuals	% of Total	Cumulative %	Station Occurrence	% Station Occurrence
Scaphopoda (LPIL)	Mol	Scap	1	0.09	98.86	1	17
<i>Schizaster orbignyanus</i>	Ech	Echi	1	0.09	98.95	1	17
<i>Scissurella proxima</i>	Mol	Gast	1	0.09	99.04	1	17
<i>Scoletoma</i> (LPIL)	Ann	Poly	1	0.09	99.12	1	17
<i>Sphaerodoridium lutzeni</i>	Ann	Poly	1	0.09	99.21	1	17
<i>Spio pettiboneae</i>	Ann	Poly	1	0.09	99.30	1	17
<i>Spiochaetopterus oculatus</i>	Ann	Poly	1	0.09	99.39	1	17
<i>Spiophanes wigleyi</i>	Ann	Poly	1	0.09	99.47	1	17
<i>Sthenolepis</i> sp. A	Ann	Poly	1	0.09	99.56	1	17
Thraciidae (LPIL)	Mol	Biva	1	0.09	99.65	1	17
<i>Tosia parva</i>	Ech	Aste	1	0.09	99.74	1	17
Trochidae (LPIL)	Mol	Gast	1	0.09	99.82	1	17
<i>Turbonilla conradi</i>	Mol	Gast	1	0.09	99.91	1	17
Turridae (LPIL)	Mol	Gast	1	0.09	100.00	1	17

Taxa Key

Ann=Annelida	Ech=Echinodermata	Mol=Mollusca
Poly=Polychaeta	Aste=Asteroidea	Apla=Aplacophora
Olig=Oligochaeta	Echi=Echinoidea	Biva=Bivalvia
Art=Arthropoda	Holo=Holothuroidea	Gast=Gastropoda
Mala=Malacostraca	Ophi=Ophiuroidea	Scap=Schapophoda
Ostr=Ostracoda	Hem=Hemichordata	Rhy=Rhynchozoela
Cho=Chordata	Ente=Enteropneusta	Anop=Anopla
Asci=Ascidiacea		Sip=Sipuncula

Table 9. Summary of overall abundance of major taxonomic groups for the South Florida transect stations, August 1999.

Taxa	Total No. Taxa	% of Total	Total No. Individuals	% of Total
Annelida				
Oligochaeta	1	0.6	1	0.1
Polychaeta	100	55.2	833	73.1
Mollusca				
Aplacophora	1	0.6	7	0.6
Bivalvia	15	8.3	98	8.6
Gastropoda	11	6.1	17	1.5
Scaphopoda	4	2.2	14	1.2
Arthropoda				
Malacostraca	28	15.5	51	4.5
Ostracoda	5	2.8	23	2.0
Echinodermata				
Asteroidea	1	0.6	3	0.3
Echinoidea	3	1.7	6	0.5
Holothuroidea	1	0.6	4	0.4
Ophiuroidea	3	1.7	16	1.4
Sipuncula				
	3	1.7	40	3.5
Other Taxa				
	5	2.8	27	2.4
Totals	181		1,140	

Table 10. Summary of abundance of major taxonomic groups by station for the South Florida transect stations, August 1999.

Station	Taxa	No. of Taxa	% of Total	No. of Individuals	% of Total
T-5	Annelida	27	56.2	83	68.0
	Mollusca	8	16.6	14	11.4
	Arthropoda	8	16.6	9	7.3
	Echinodermata	3	6.2	14	11.4
	Other Taxa	2	4.1	2	1.6
	Total	48		122	
T-6	Annelida	18	58.0	47	68.1
	Mollusca	4	12.9	9	13.0
	Arthropoda	3	9.6	3	4.3
	Echinodermata	1	3.2	4	5.7
	Other Taxa	5	16.1	6	8.6
	Total	31		69	
T-7	Annelida	27	57.4	99	73.8
	Mollusca	5	10.6	13	9.7
	Arthropoda	11	23.4	18	13.4
	Echinodermata	1	2.1	1	0.7
	Other Taxa	3	6.3	3	2.2
	Total	47		134	
T-8	Annelida	52	73.2	246	85.7
	Mollusca	8	11.2	18	6.2
	Arthropoda	7	9.8	9	3.1
	Echinodermata	0	0.0	0	0.0
	Other Taxa	4	5.6	14	4.8
	Total	71		287	
T-9	Annelida	49	63.6	183	75.0
	Mollusca	12	15.5	29	11.8
	Arthropoda	9	11.6	16	6.5
	Echinodermata	4	5.1	7	2.8
	Other Taxa	3	3.8	9	3.6
	Total	77		244	
T-10	Annelida	48	63.1	176	61.9
	Mollusca	12	15.7	53	18.6
	Arthropoda	9	11.8	19	6.6
	Echinodermata	2	2.6	3	1.0
	Other Taxa	5	6.5	33	11.6
	Total	76		284	

Table 11. Percentage abundance of dominant taxa (>5% of the total) for the South Florida Transect stations, August 1999.

Taxa	T-5	T-6	T-7	T-8	T-9	T-10
Annelida						
Polychaeta						
<i>Armandia maculata</i>	9.0	14.5	10.4	6.3		
<i>Galathowenia oculata</i>	9.8					
Maldanidae (LPIL)			5.2			
Onuphidae (LPIL)	8.2					
<i>Poecilochaetus</i> (LPIL)					9.8	
<i>Prionospio</i> (LPIL)		18.8		10.1	8.6	
Spionidae (LPIL)			8.2			
<i>Spiophanes missionensis</i>				12.2		
<i>Synelmis ewingi</i>						6.0
<i>Taylorphloe hirsuta</i>			11.9		6.1	
Arthropoda						
Malacostraca						
<i>Ityarachna</i> sp. A			5.2			
Echinodermata						
Ophiuroidea						
Ophiuroidea (LPIL)	8.2	5.8				
Mollusca						
Bivalvia						
Lucinidae (LPIL)	5.7	7.2	6.7			
Sipuncula						
Sipuncula (LPIL)						9.2

Table 12. Summary of the benthic macroinfaunal data for the South Florida Transect Stations, August 1999.

Station	Rep	No. of Taxa	No. of Indvs	Density (nos/m ²)	Mean No. Taxa	Taxa (SD)	Mean Density	Density (SD)	Total No. Taxa	Total No. Individuals	H' Diversity	J' Evenness
T-5	A	46	122	1356	46.0	0.0	1356.0	0.0	46	122	3.41	0.89
T-6	A	31	69	767	31.0	0.0	767.0	0.0	31	69	3.00	0.87
T-7	A	47	134	1489	47.0	0.0	1489.0	0.0	47	134	3.34	0.87
T-8	A	71	287	3189	71.0	0.0	3189.0	0.0	71	287	3.64	0.85
T-9	A	77	244	2711	77.0	0.0	2711.0	0.0	77	244	3.82	0.88
T-10	A	76	284	3156	76.0	0.0	3156.0	0.0	76	284	3.90	0.90

Figure 1. Area sampled for the South Florida Gulf Assessment Stations, August 1999.

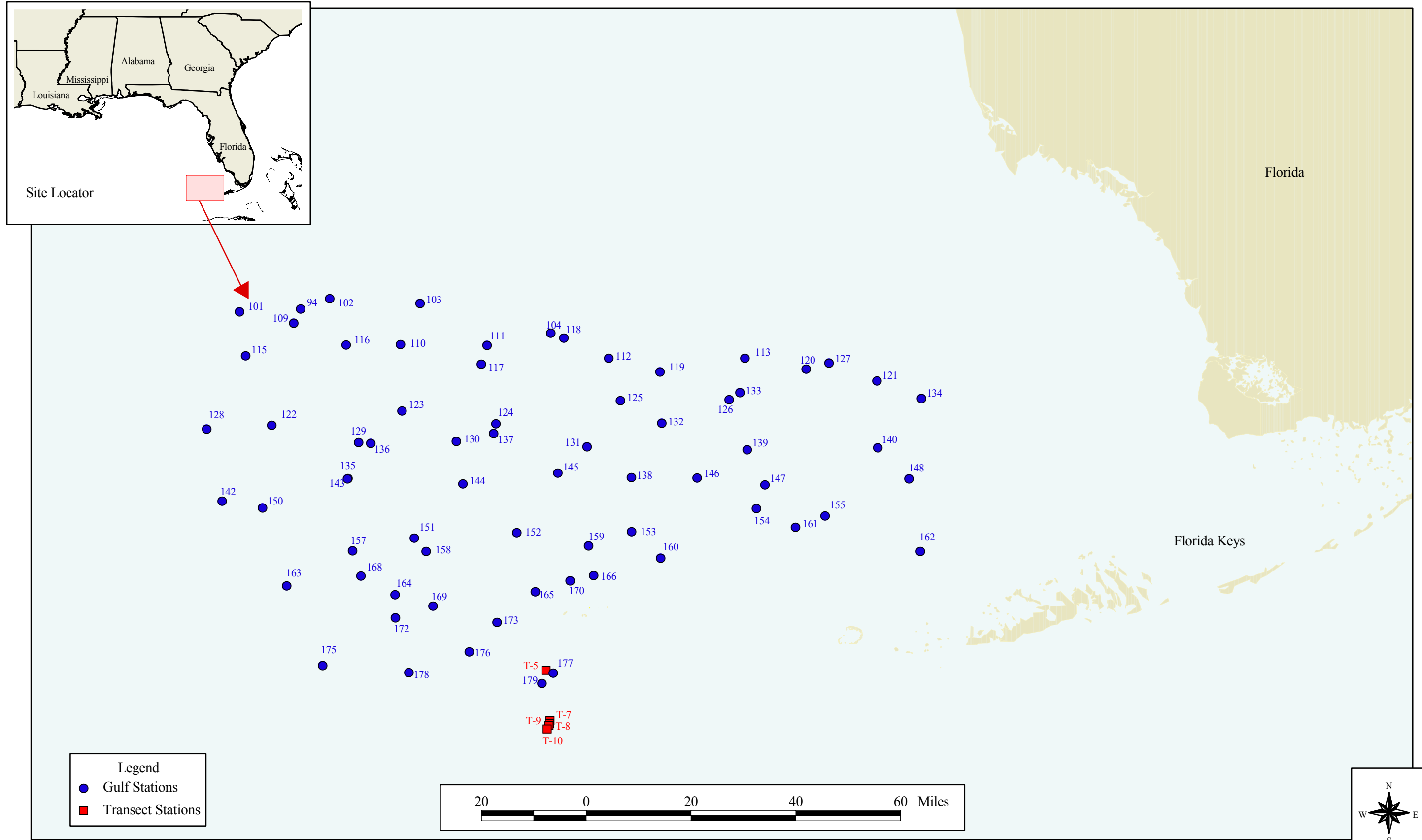


Figure 2. Sediment composition for the South Florida Gulf stations, August 1999.

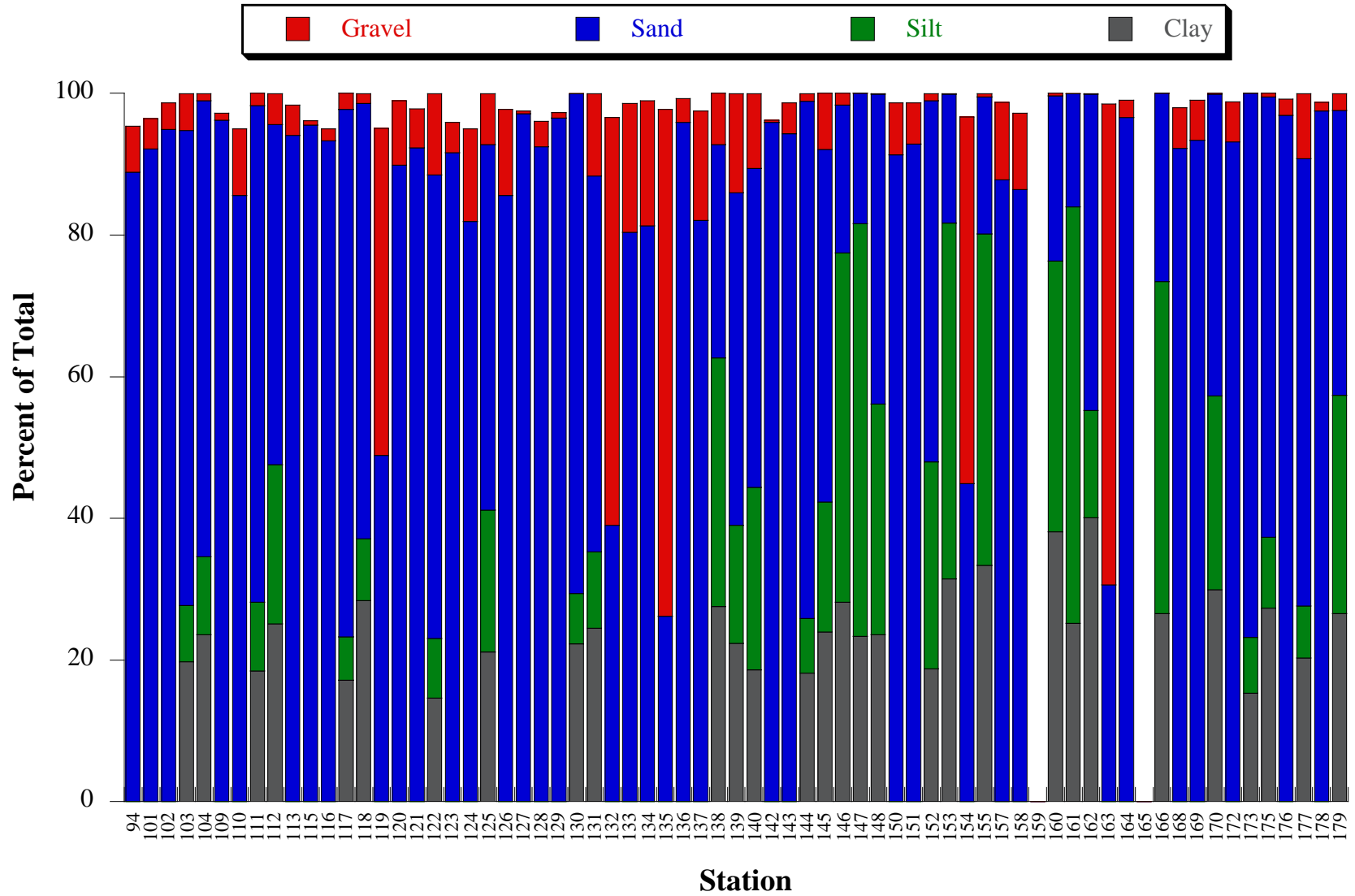


Figure 3. Percent gravel+sand and percent silt+clay content of the sediments for the South Florida Gulf stations, August 1999.

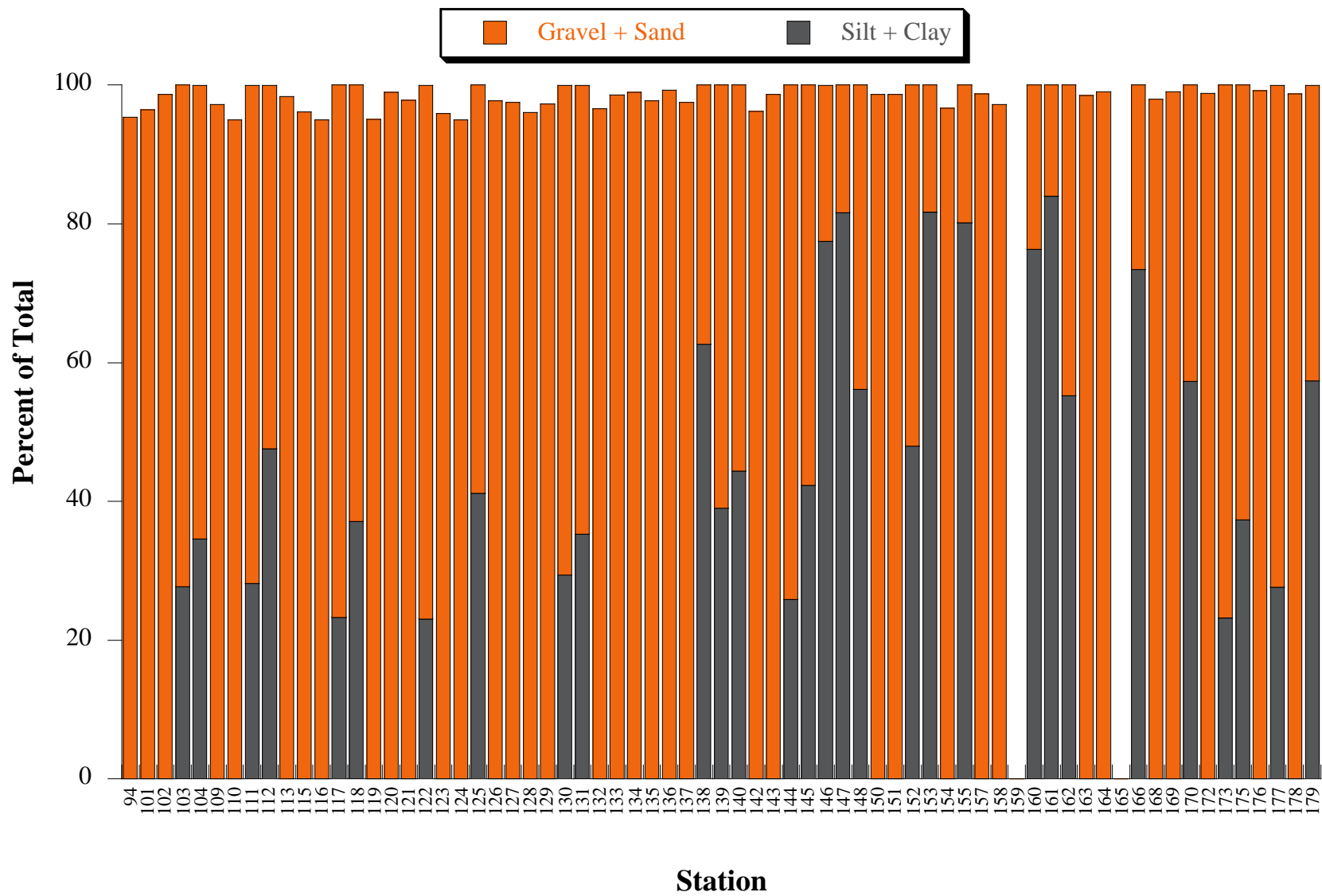


Figure 4. Sediment composition for the South Florida Gulf transect stations, August 1999.

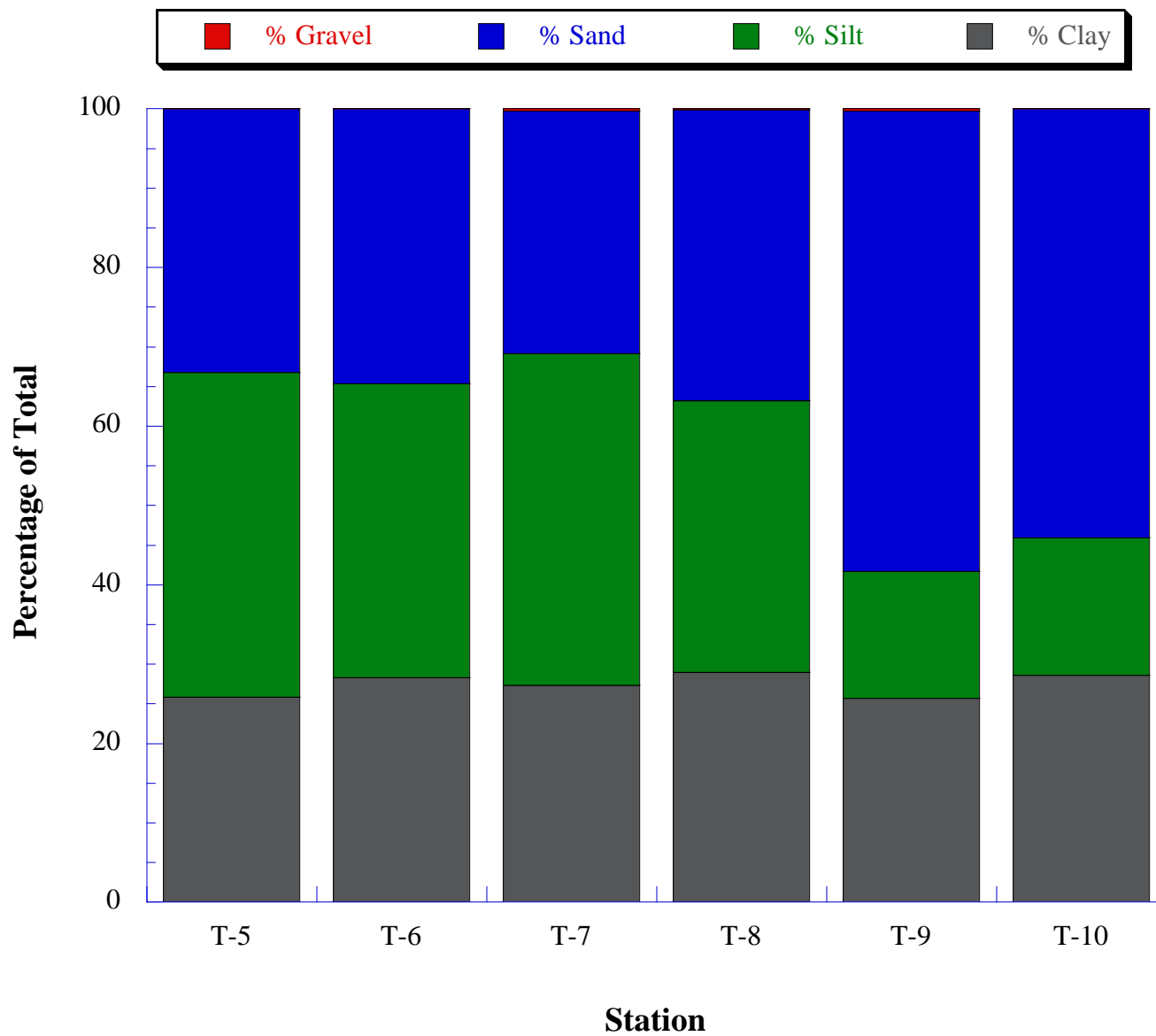


Figure 5. Percent gravel+sand and percent silt+clay content of the sediments for the South Florida Gulf transect stations, August 1999.

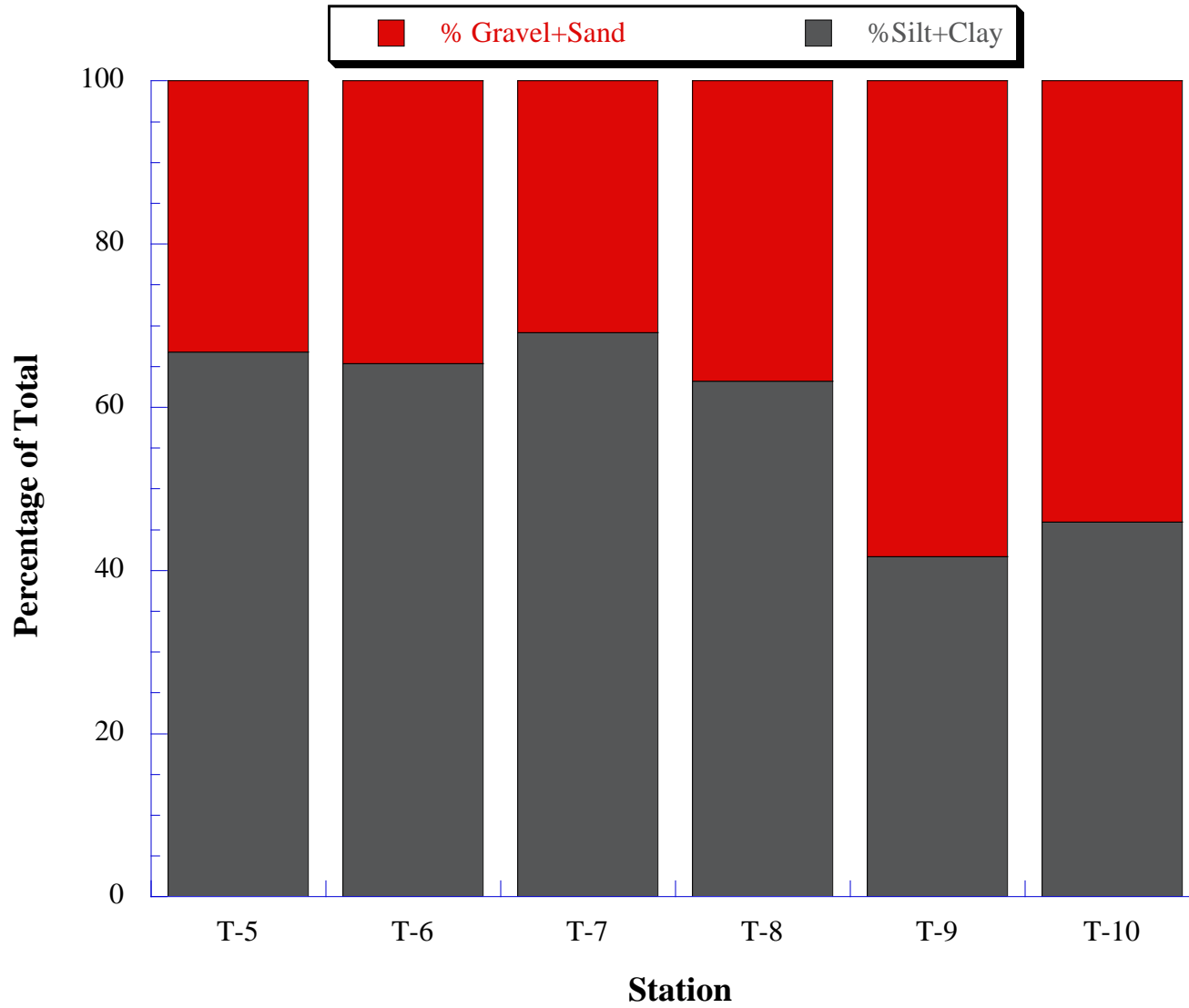


Figure 6. Percent abundance of major taxonomic groups for the South Florida Gulf stations, August 1999.

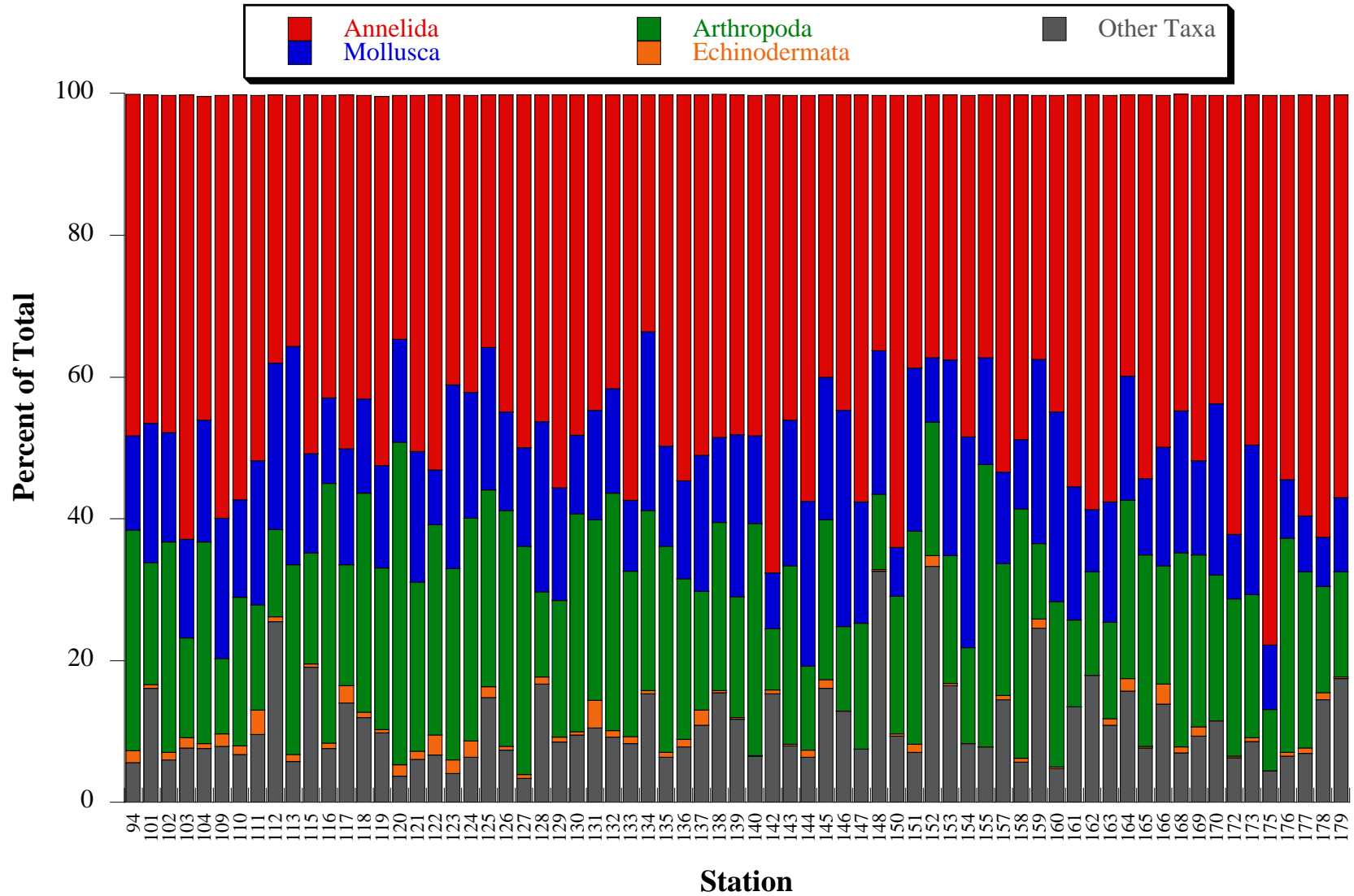


Figure 7. Mean macroinvertebrate densities for the South Florida Gulf stations, August 1999.

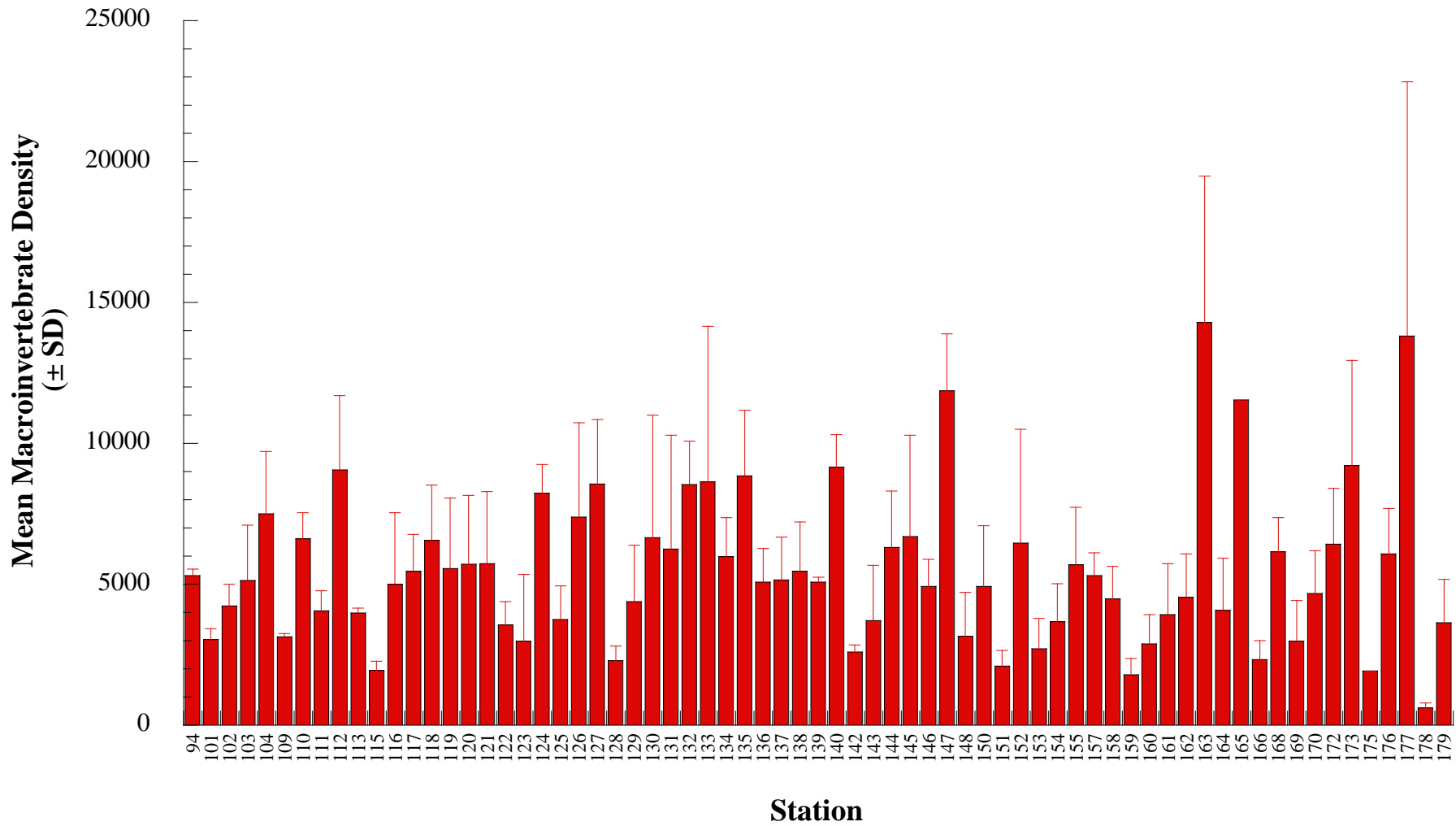


Figure 8. Map of macroinvertebrate density by station for the South Florida Gulf Stations, August 1999.

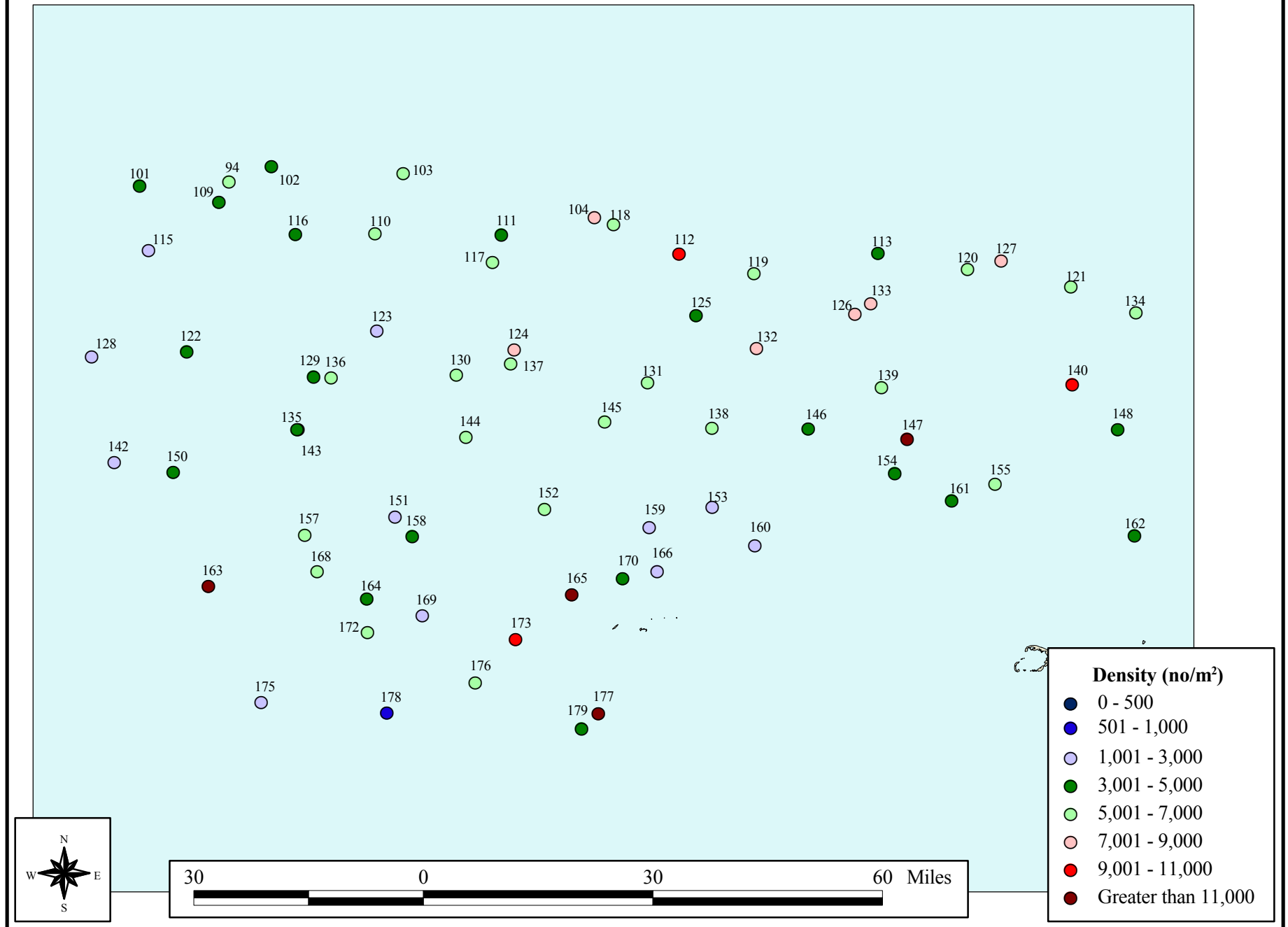


Figure 9. Mean number of macroinvertebrate taxa per replicate for the South Florida Gulf stations, August 1999.

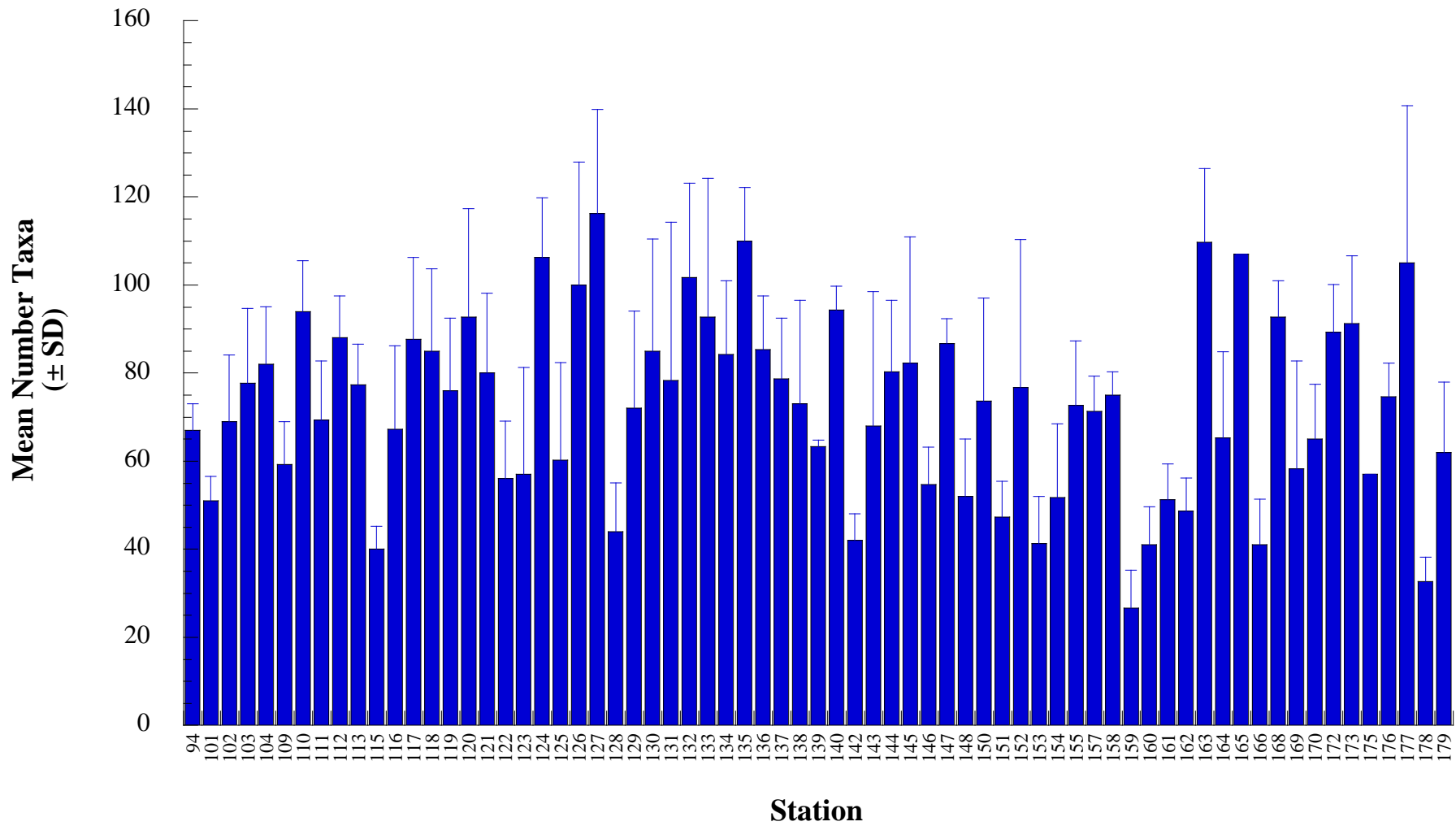


Figure 10. Map of number of taxa by station for the South Florida Gulf Stations, August 1999.

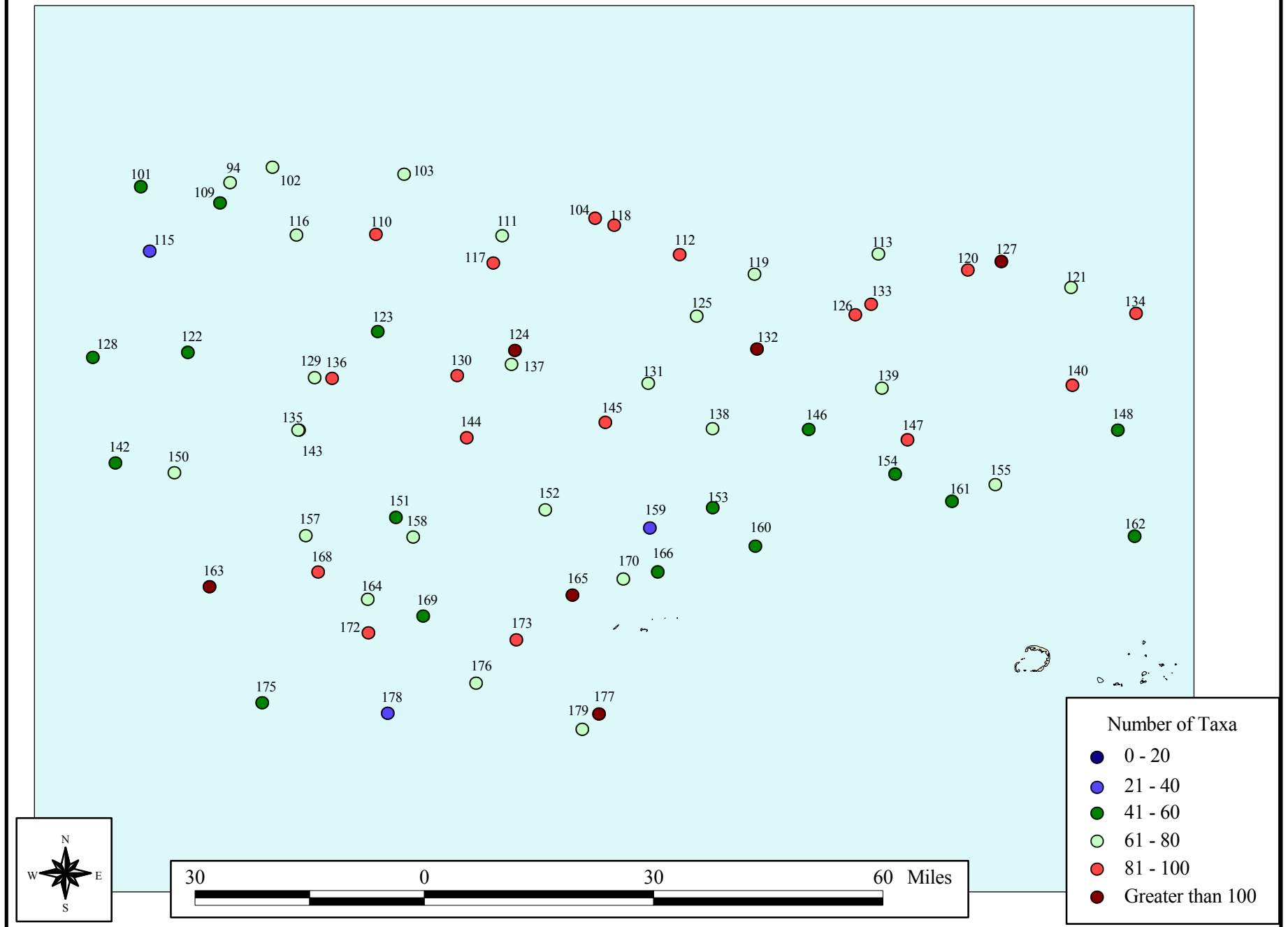


Figure 11. Taxa diversity (H') for the South Florida Gulf stations, August 1999.

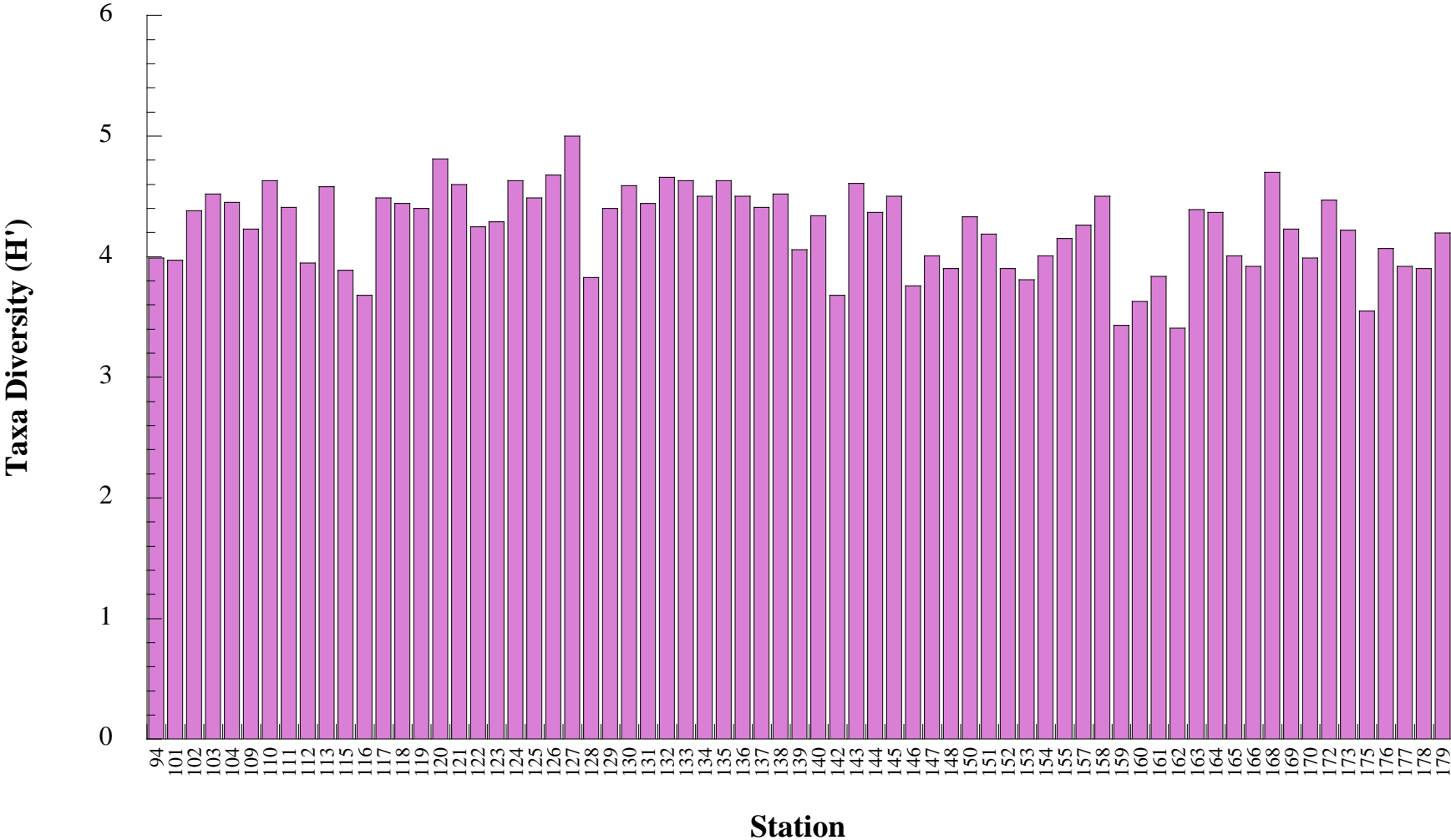


Figure 12. Taxa evenness (J') for the South Florida Gulf stations, August 1999.

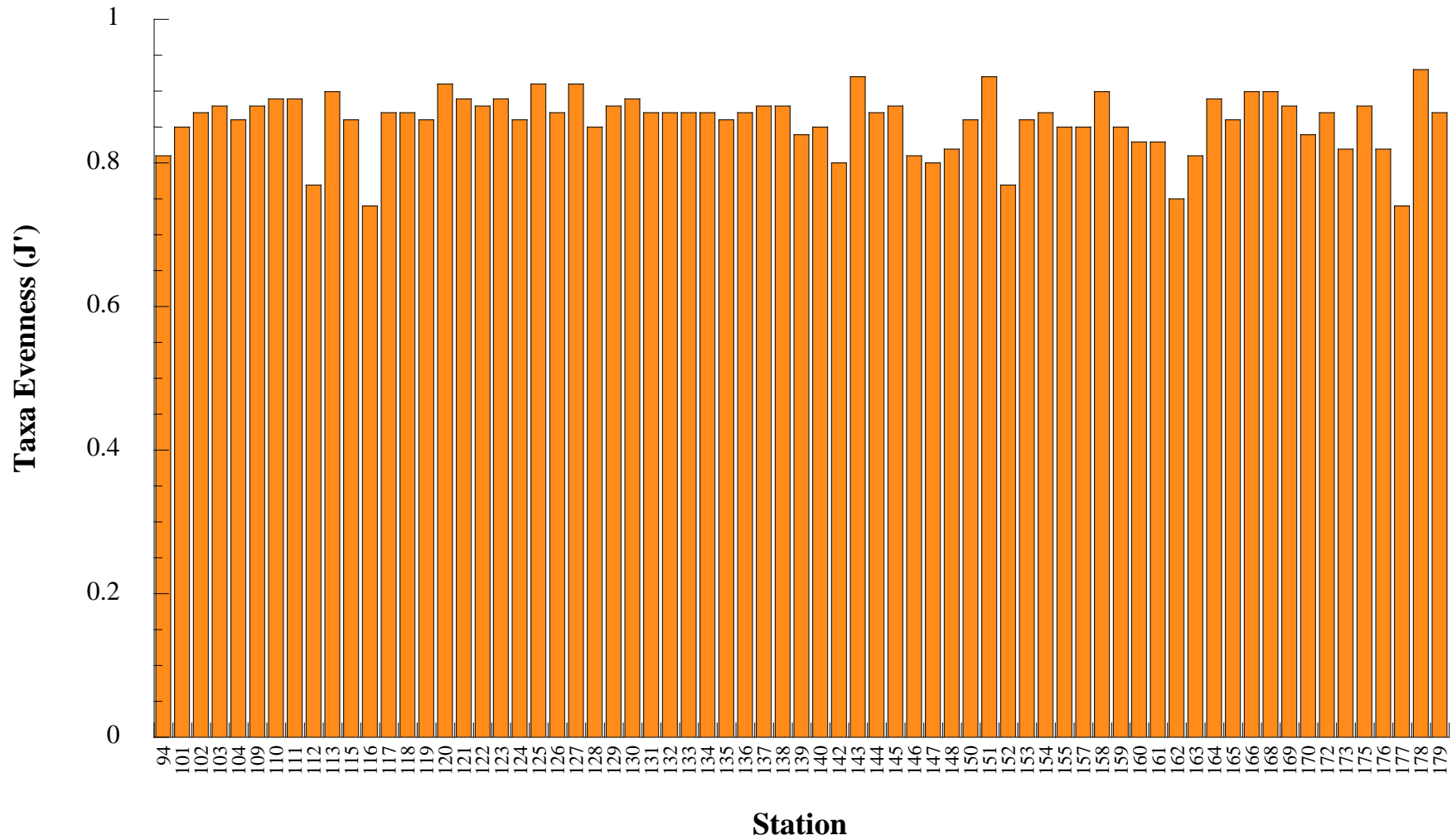


Figure 13. Percent abundance of major taxonomic groups for the South Florida Gulf transect stations, August 1999.

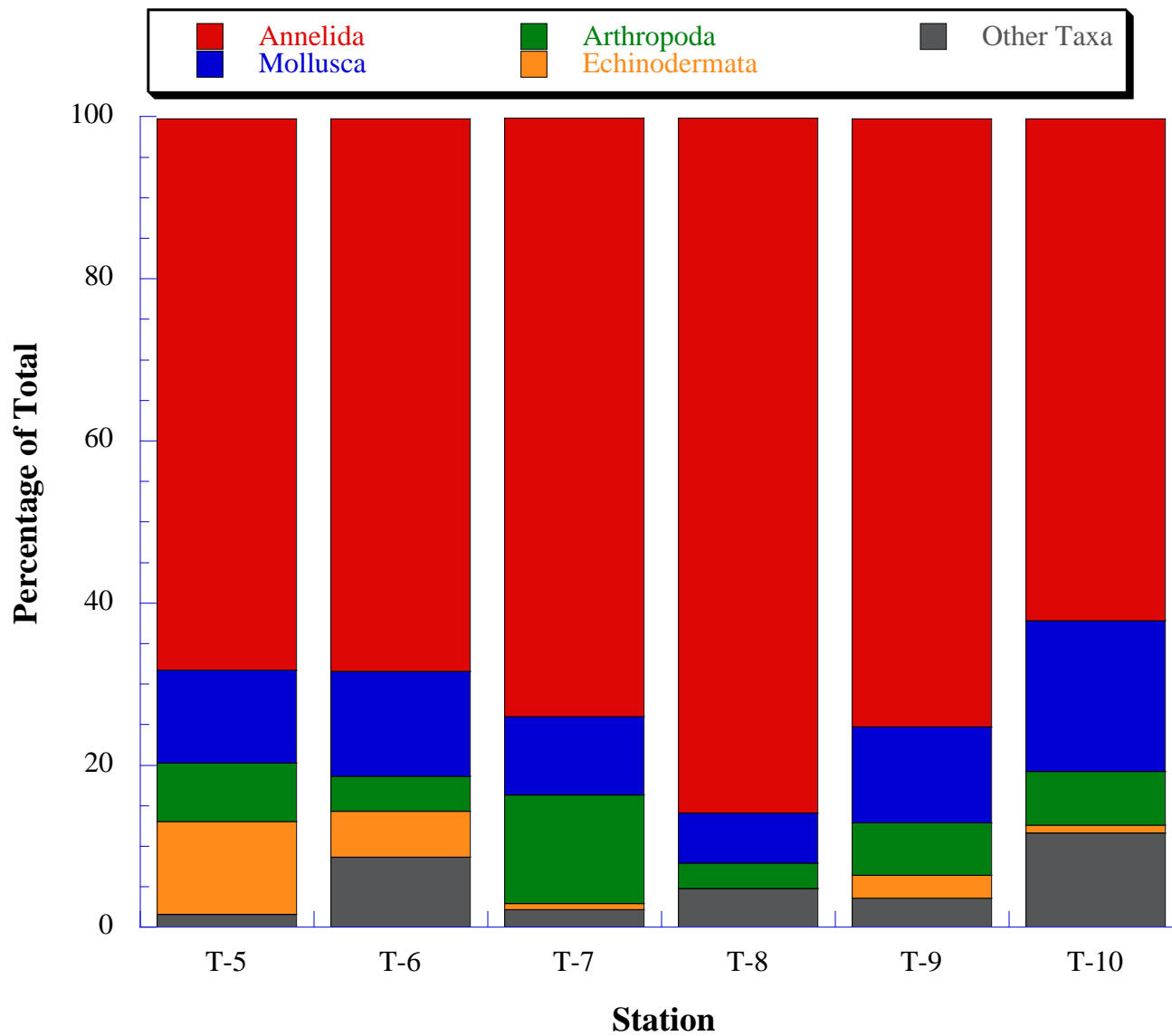


Figure 14. Mean macroinvertebrate densities for the South Florida Gulf transect stations, August 1999.

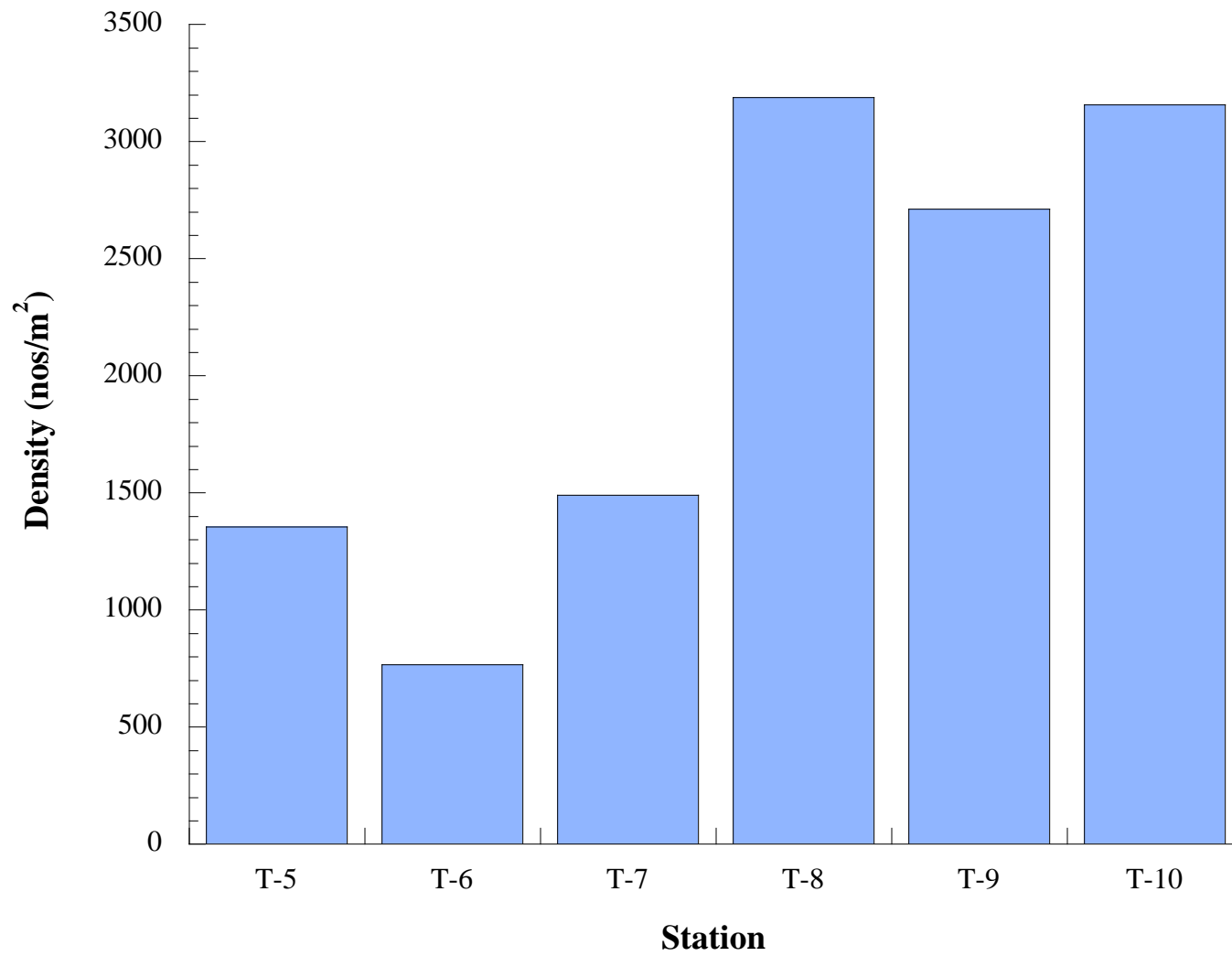


Figure 15. Map of macroinvertebrate density by station for the South Florida Transect Stations, August 1999.

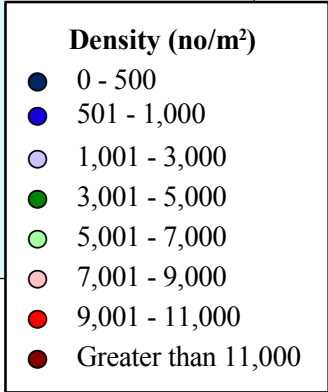
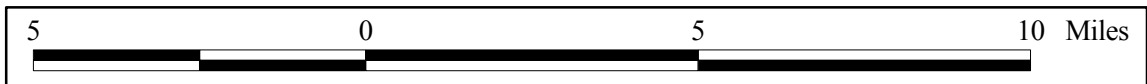
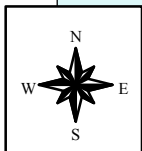
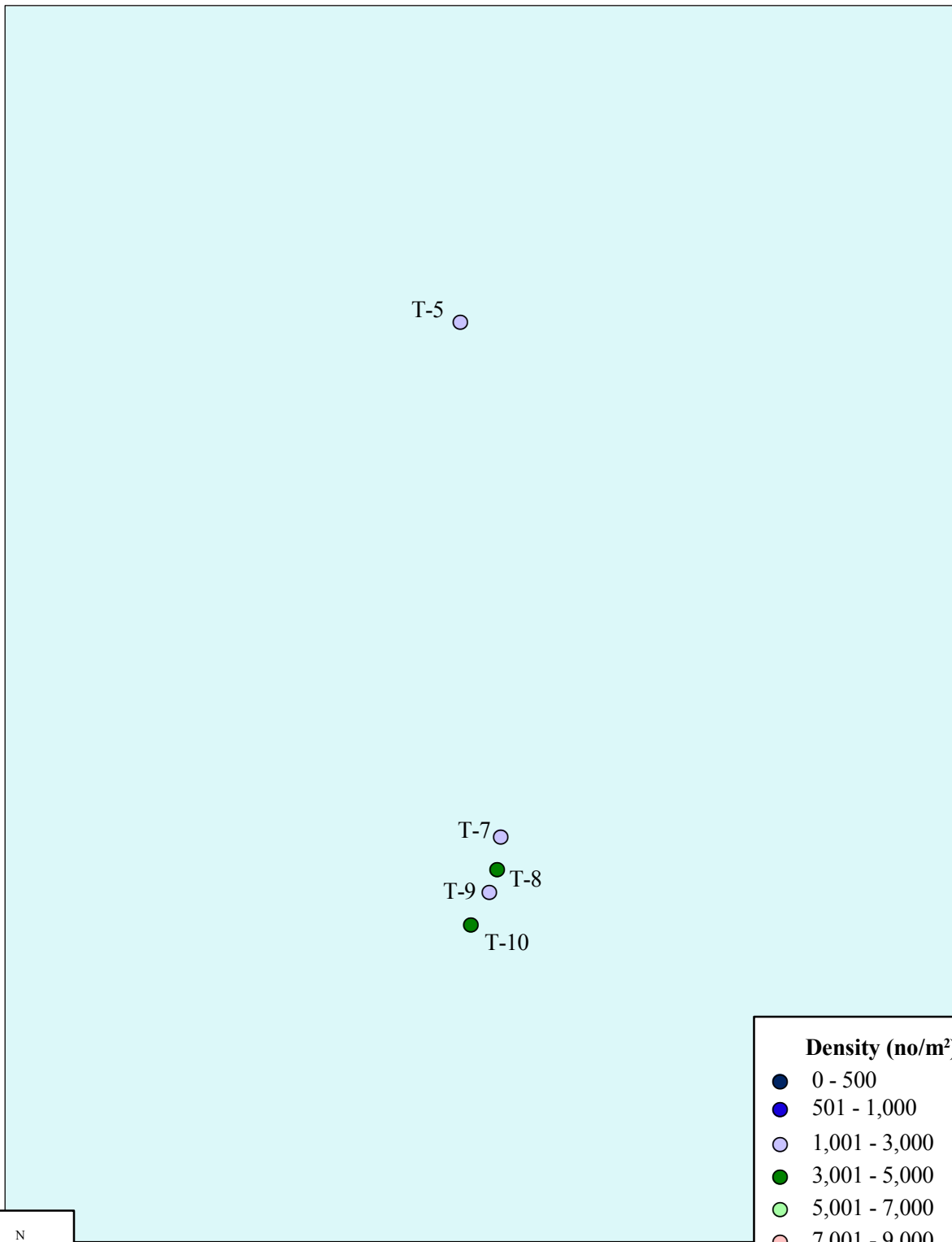


Figure 16. Number of macroinvertebrate taxa per sample for the South Florida Gulf Transect Stations, August 1999.

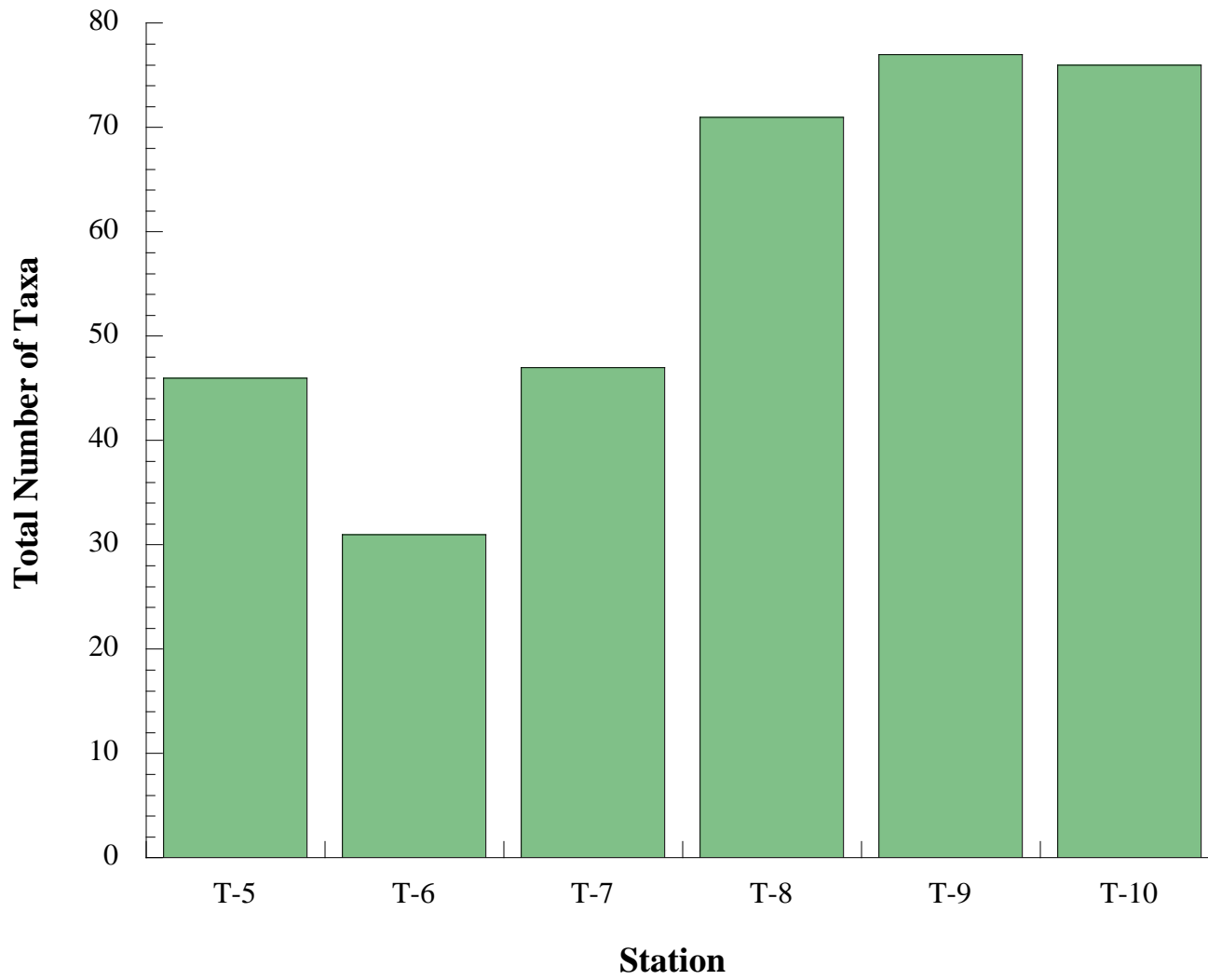


Figure 17. Map of number of taxa by station for the South Florida Transect Stations, August 1999.



Figure 18. Diversity (H') for the South Florida Gulf transect stations, August 1999.

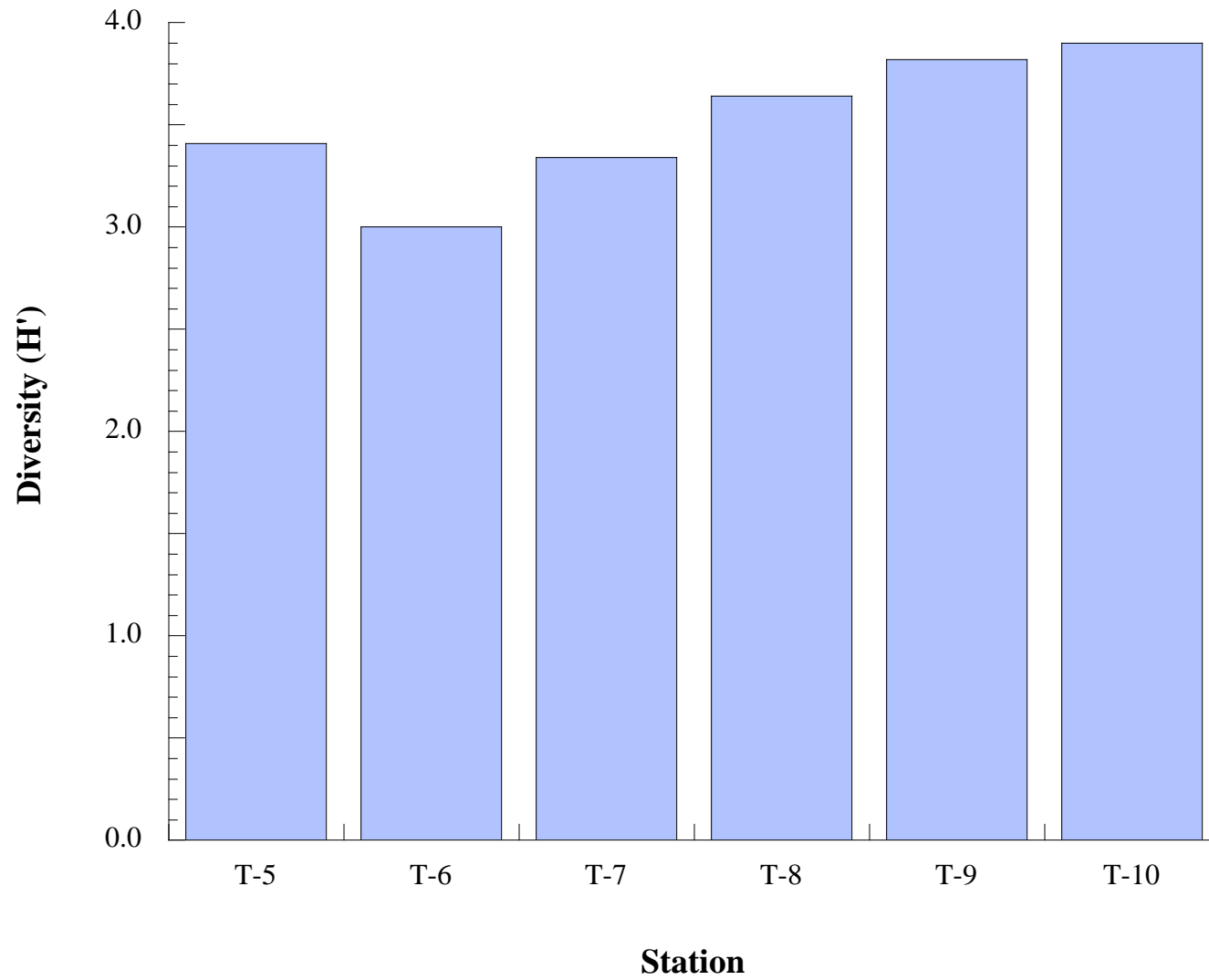
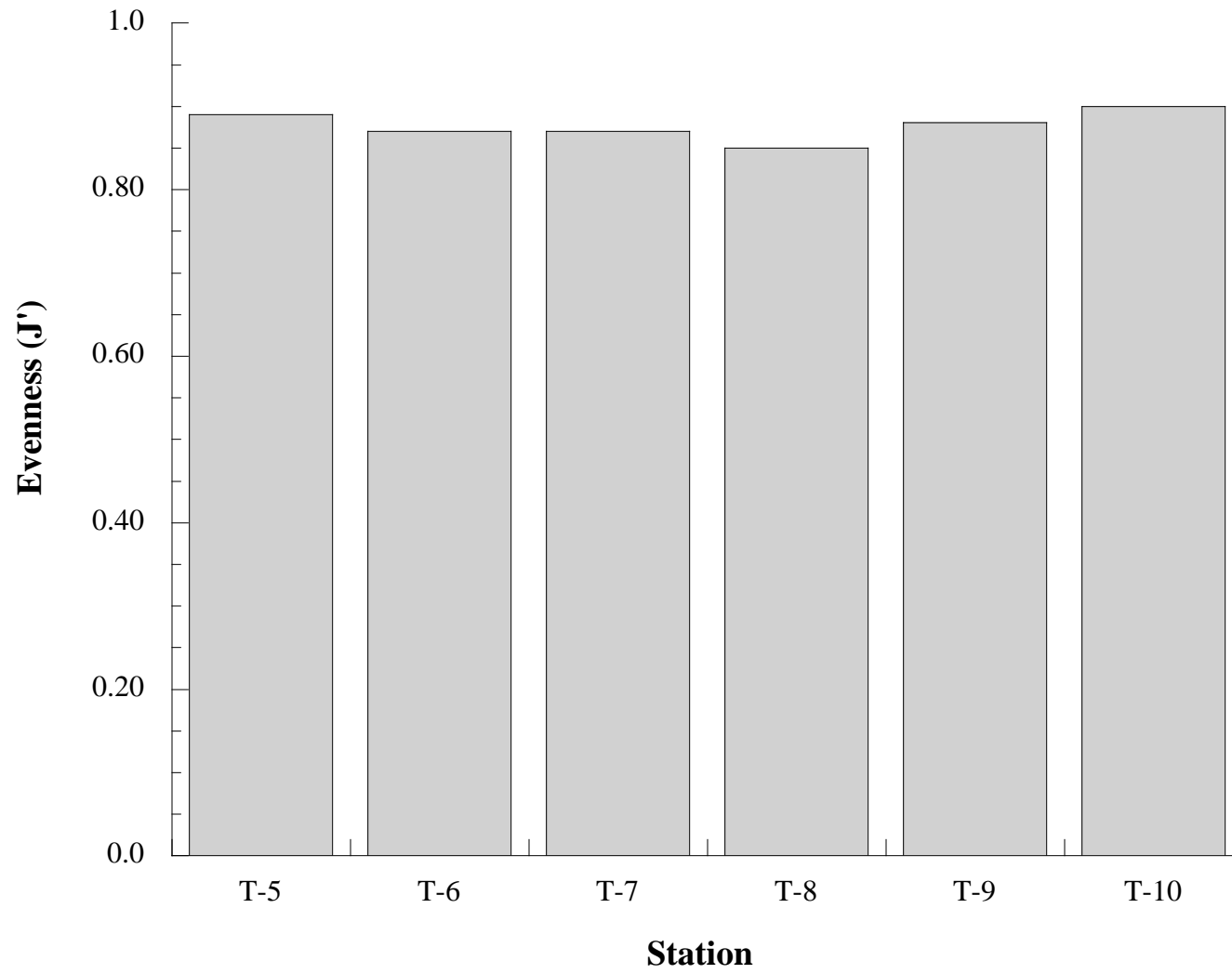


Figure 19. Taxa evenness (J') for the South Florida Gulf transect stations, August 1999.



APPENDIX

QUALITY ASSURANCE STATEMENT

Client/Project NOAA
Work Assignment Title 1999 Florida Keys - Dry Tortugas
Work Assignment Number D.O. 3 **Task Number:** Option 2

Description of

Data Set or Deliverable: 70 Benthic macroinvertebrate stations collected
August 3- 15, 1998; Young Dredge grabs.

Description of audit and review activities:

Judged accuracy rates were well above standard levels for sorting and taxonomy. Laboratory QC reports were completed. Copies of QC results follow (see attachment.) All taxonomic data were entered into computer and printed. This list was checked for accuracy against original taxonomic data sheets.

Description of outstanding issues or deficiencies which may affect data quality: None

Signature of QA Officer or Reviewer

Date

Signature of Project Manager

Date

QUALITY CONTROL REWORKS

Client/Project NOAA

Work Assignment Title Fl Keys/Dry Tortugas

Task Number

Sorting Results:	Sample #	% Accuracy
	159-1	100%
	142-1	100%
	158-3	100%
	159-2	100%
	161-1	100%
	160-1	100%
	166-1	100%
	151-2	100%
	160-2	100%
	159-3	100%
	125-1	100%
	118-2	100%
	117-2	99%
	160-3	99%
	128-1	100%
	140-3	100%
	113-1	100%
	109-3	100%
	138-3	100%
	166-2	100%
	178-2	100%
	128-1	100%
	140-3	100%
	113-1	100%
	109-3	100%
	138-3	100%
	166-2	100%
	178-2	100%

Description of outstanding issues or deficiencies which may affect data quality: None

Taxonomy Results:	Sample #	Taxa	% Accuracy
	138-2	Crust./Moll.	95%
	146-2	Crust./Moll.	98%
	162-1	Crust./Moll.	100%
	131-1	Crust./Moll.	97%
	168-1	Crust./Moll.	95%
	150-1	Crust./Moll.	100%
	130-3	Crust./Moll.	97%
	123-2	Crust./Moll.	97%
	111-3	Crust./Moll.	99%
	166-2	Crust./Moll.	96%
	170-1	Crust./Moll.	96%
	165-1	Crust./Moll.	97%
	157-2	Crust./Moll.	97%
	151-1	Crust./Moll.	100%
	146-1	Crust./Moll.	99%
	135-2	Crust./Moll.	98%
	131-3	Crust./Moll.	96%

Quality Reworks continued:

Taxonomy Results:	Sample #	Taxa	% Accuracy
	128-2	Crust./Moll.	98%
	134-3	Crust./Moll.	97%
	142-1	Annelida	95%
	110-1	Annelida	97%
	119-3	Annelida	100%
	154-2	Annelida	97%
	161-1	Annelida	100%
	176-3	Annelida	96%
	179-1	Annelida	95%
	160-2	Annelida	97%
	159-2	Annelida	100%
	146-3	Annelida	96%
	133-3	Annelida	100%
	128-3	Annelida	98%
	124-3	Annelida	98%
	103-2	Annelida	97%
	109-3	Annelida	96%
	T-6	Annelida	98%
	127-1	Annelida	97%
	113-3	Annelida	98%
	115-1	Annelida	84%
	131-3	Annelida	83%
	162-3	Annelida	92%
	125-2	Annelida	67%

Description of outstanding issues or deficiencies which may affect data quality:

Sample numbers 115-1, 131-3, 162-3 and 125-2 were taxonomy QC failures. All of these samples were processed by the same taxonomist. All samples in the entire project that were worked by that taxonomist have been reworked by other taxonomists and appropriate corrections have been made to the data.

Signature of QA Officer or Reviewer

Date