

NOAA West Indian Shelf Benthic Community Assessment, 2007

SUBMITTED TO:

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INTRODUCTION

The NOAA West Indian Shelf project was sampled during 2007. One aspect of this study 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).

METHODS

Sample Collection and Handling

A Young dredge (area = 0.04 m²) was used to collect duplicate bottom samples at each of 50 station locations. Samples were prescreened through 0.5 mm mesh sieves, by NOAA in the field and fixed in 10% formalin. The preserved sample fractions were transported to BVA's laboratory in Mobile, Alabama.

Sediment Analysis

Sediment texture was determined at half-phi intervals using the hydrometer technique for fractions smaller than 44 μ m and nested sieves for larger particle fractions. Texture parameters that were computed included percent gravel, sand, and silt /clay, median particle size, sorting coefficient and percent moisture. 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 labeled 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/Quality Control (QA/QC) reports for the West Indian Shelf samples are given in the Appendix.

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 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 Shannon's Index (Pielou, 1966), according to the following formula:

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

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

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

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

Taxa diversity was calculated using \ln ; however, diversity may also be calculated using \log_2 . Both methods of calculating diversity are common in the scientific literature. The taxa diversity calculated in this report using \ln , can be converted to \log_2 diversity by multiplying the \ln taxa diversity by 1.4427.

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

Sediment data for the 50 stations are given in Table 1 and Figures 1 and 2. Sediment texture at the 50 stations was variable throughout the study area (Figure 1). Sediment texture was dominated by sand at 44 stations, although 11 of those stations had a significant silt+clay fraction (Figure 1). The silt+clay fraction was dominant at 6 of the 50 stations (Table 1, Figure 1). The percent total organic carbon (TOC) fraction of the sediment was very low with all stations having values less than 0.7% (Table 1, Figure 2).

BENTHIC COMMUNITY CHARACTERIZATION

Faunal Composition, Abundance, and Community Structure

Microsoft™ Excel spreadsheets are being provided separately to NOAA which include: raw data on taxa abundance and density, 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 number of taxa, density, taxa diversity and taxa evenness by station.

A total of 17285 organisms, representing 713 taxa, were identified from the 50 stations (Table 2). Polychaetes were the most numerous organisms present representing 58.0% of the total assemblage, respectively. Polychaetes represented 36.9% of the total number of taxa followed by malacostracans (28.8%) and bivalves (13.3%) (Table 2). The percentage abundance of the major taxa at the 50 stations is given in Table 3 and Figure 3. An annelid assemblage was dominant at 44 of the 50 stations, with the remaining three stations being dominated by mollusks (Figure 3).

The dominant taxon collected from the 38 stations was the polychaete, *Prionospio* (LPIL) and represented 6.96% of the total. Other dominant taxa included the oligochaete Family Tubificidae, and the polychaetes, *Prionospio cristata*, *Goniadides carolinae acutus* and *Fabricinuda trilobata* representing 3.6%, 3.5%, 2.2% and 2.2% of the total, respectively (Table 4). The most widely distributed taxa were the polychaete, *Prionospio* (LPIL) and the bivalve Family Lucinidae (LPIL) and were found at 90% of the stations. The distribution of taxa representing > 5% of the total assemblage at each station is given in Table 5.

Station taxa richness and abundance data are summarized for the 50 stations in Table 6 and Figures 4 and 5. The number of taxa per station ranged from 18.0 at Stations 19 and 31 to 111.5 at Station 23 (Table 6; Figure 4). Station densities ranged from 712.5 organisms·m² at Station 47 to 11087.5 organisms·m² at Station 23 (Table 6; Figure 5).

Taxa diversity and evenness for the 50 stations are given in Table 6 and Figures 6 and 7. Taxa diversity (H') was > 3.0 at 44 of 50 stations and ranged from 2.49 at Station 19 to 4.34 at Station 22 (Table 6; Figure 6). Taxa evenness (J') ranged from 0.63 at Station 37 to 0.95 at Station 47 (Table 6; Figure 7).

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 sediment data for the West Indian Shelf stations, 2007.

Station	% TOC	% Gravel	% Sand	% Silt	% Clay	% Silt+Clay	USACE Description	Median Particle Size (phi)	Sorting Coefficient	% Moisture
1	0.45	3.8	95.6	0.5	0.0	0.5	Sand	1.00	1.19	26.44
2	0.58	5.5	91.2	0.1	0.0	0.1	*	1.30	1.30	29.55
3	0.59	1.8	96.7	0.3	0.0	0.3	Sand	0.86	1.04	22.09
4	0.38	16.1	82.6	0.0	0.0	0.0	*	0.84	1.76	21.79
5	0.58	14.5	61.2	13.4	10.9	24.3	*	1.69	3.33	26.90
6	0.59	8.1	91.5	0.2	0.0	0.2	*	0.54	1.07	24.36
7	0.57	0.0	92.9	3.6	0.0	3.6	Sand	2.62	0.85	33.51
8	0.53	2.1	97.7	0.2	0.0	0.2	Sand	1.01	0.86	24.91
9	0.52	4.5	95.3	0.1	0.0	0.1	Sand	2.52	0.48	19.35
10	0.58	0.2	70.3	20.7	8.8	29.5	Silty Sand	2.83	2.05	37.89
11	0.61	0.0	23.5	64.7	11.8	76.5	Sandy Silt	4.98	1.79	42.50
12	0.51	1.0	99.0	0.0	0.0	0.0	Sand	1.41	1.27	24.95
13	0.63	2.2	97.6	0.0	0.0	0.0	Sand	0.69	1.02	32.48
14	0.45	0.5	46.1	44.2	9.1	53.3	Silty Sand	4.12	2.48	38.52
15	0.67	0.1	96.6	2.0	0.0	2.0	Sand	1.91	0.80	29.95
16	0.62	6.8	85.7	5.2	0.0	5.2	*	1.49	1.17	28.91
17	0.49	9.7	89.2	0.2	0.0	0.2	*	0.43	1.19	16.54
18	0.64	17.2	57.7	17.1	8.1	25.2	*	1.90	3.56	36.79
19	0.61	0.2	98.0	0.0	0.0	0.0	Sand	1.22	0.74	20.47
20	0.60	4.9	95.0	0.0	0.0	0.0	Sand	0.91	0.83	25.73
21	0.54	0.3	49.0	40.6	10.2	50.8	Silty Sand	4.02	1.86	32.67
22	0.54	3.5	77.0	10.2	9.3	19.5	Sand	2.22	2.10	32.43
23	0.57	12.4	86.1	1.2	0.0	1.2	*	0.40	1.28	27.68
24	0.52	1.4	96.3	1.0	0.0	1.0	Sand	1.64	0.86	25.81
25	0.57	8.3	86.6	0.5	0.0	0.5	*	0.73	1.22	24.52
26	0.54	2.2	97.2	0.0	0.0	0.0	Sand	0.70	0.90	29.74
27	0.58	9.1	90.7	0.1	0.0	0.1	*	0.63	1.05	26.03
28	0.64	2.0	69.6	19.9	8.5	28.4	Silty Sand	2.63	2.56	32.47
29	0.61	1.5	57.7	23.4	17.5	40.8	Silty Sand	3.38	3.44	35.74
30	0.59	0.6	77.6	13.6	8.2	21.8	Silty Sand	2.67	1.65	32.86
31	0.55	0.0	23.7	64.3	11.9	76.3	Sandy Silt	4.69	1.71	42.49
32	0.68	0.5	42.7	45.4	11.5	56.9	Sandy Silt	4.30	2.13	41.18
33	0.51	34.1	65.5	0.2	0.0	0.2	*	**	**	18.09
34	0.54	7.9	90.8	0.8	0.0	0.8	*	0.24	1.15	30.04
35	0.53	12.1	49.2	30.2	8.6	38.8	*	2.06	3.49	32.79
36	0.46	43.5	54.2	0.5	0.0	0.5	*	**	**	27.66
37	0.47	0.1	68.2	24.4	7.4	31.8	Silty Sand	3.43	1.55	31.73
38	0.66	7.6	91.2	0.7	0.0	0.7	*	0.49	1.31	34.16
39	0.60	0.0	20.6	66.7	12.7	79.3	Sandy Silt	5.00	1.61	40.81
40	0.42	39.1	59.0	1.1	0.0	1.1	*	**	**	25.85
41	0.51	7.7	87.6	1.0	0.0	1.0	*	1.56	1.23	32.02
42	0.55	0.8	94.7	2.6	0.0	2.6	Sand	2.36	1.09	30.61
43	0.63	1.1	97.6	0.9	0.0	0.9	Sand	1.60	0.70	26.32
44	0.68	6.4	65.3	19.3	9.0	28.3	*	2.21	2.85	33.66
45	0.51	10.3	88.8	0.1	0.0	0.1	*	0.46	1.00	26.63
46	0.47	0.3	59.6	31.4	8.7	40.1	Silty Sand	3.44	2.00	33.30
47	0.63	2.6	95.6	0.8	0.0	0.8	Sand	1.33	0.88	27.73
48	0.59	0.1	95.5	2.0	0.0	2.0	Sand	2.24	1.06	33.22
49	0.55	2.2	95.1	0.1	0.0	0.1	Sand	1.45	0.68	28.80
50	0.54	1.3	93.5	2.5	0.0	2.5	Sand	1.73	1.07	32.24

* Too much gravel for textural description.

** Insufficient data for measures.

Table 2. Summary of overall abundance of major benthic macroinfaunal taxonomic groups for the West Indian Shelf stations, 2007.

Taxa	Total No. Taxa	% Total	Total No. Individuals	% Total
Annelida				
Oligochaeta	2	0.3	689	4.0
Polychaeta	263	36.9	10,019	58.0
Mollusca				
Aplacophora	1	0.1	2	0.0
Bivalvia	95	13.3	1,675	9.7
Gastropoda	60	8.4	227	1.3
Polyplacophora	1	0.1	23	0.1
Scaphopoda	6	0.8	28	0.2
Arthropoda				
Arachnida	1	0.1	5	0.0
Branchiopoda	1	0.1	13	0.1
Insecta	1	0.1	6	0.0
Malacostraca	205	28.8	2,636	15.3
Ostracoda	43	6.0	561	3.2
Echinodermata				
Asteroidea	1	0.1	2	0.0
Echinoidea	2	0.3	31	0.2
Holothuroidea	4	0.6	11	0.1
Ophiuroidea	5	0.7	115	0.7
Other Taxa	22	3.1	1,242	7.2
Total	713		17,285	

Table 3. Summary of abundance of major benthic macroinfaunal taxonomic groups by station for the West Indian Shelf stations, 2007.

Station	Taxa	Total No.		Total No.	
		Taxa	% Total	Individuals	% Total
1	Annelida	57	64.0	331	74.7
	Mollusca	8	9.0	18	4.1
	Arthropoda	15	16.9	36	8.1
	Echinodermata	0	0.0	0	0.0
	Other Taxa	9	10.1	58	13.1
	Total	89		443	
2	Annelida	56	52.3	189	60.6
	Mollusca	12	11.2	20	6.4
	Arthropoda	31	29.0	68	21.8
	Echinodermata	2	1.9	2	0.6
	Other Taxa	6	5.6	33	10.6
	Total	107		312	
3	Annelida	29	55.8	69	53.1
	Mollusca	7	13.5	20	15.4
	Arthropoda	12	23.1	28	21.5
	Echinodermata	0	0.0	0	0.0
	Other Taxa	4	7.7	13	10.0
	Total	52		130	
4	Annelida	42	46.7	319	69.7
	Mollusca	20	22.2	48	10.5
	Arthropoda	21	23.3	64	14.0
	Echinodermata	1	1.1	3	0.7
	Other Taxa	6	6.7	24	5.2
	Total	90		458	
5	Annelida	73	57.5	372	65.6
	Mollusca	20	15.7	55	9.7
	Arthropoda	26	20.5	66	11.6
	Echinodermata	1	0.8	8	1.4
	Other Taxa	7	5.5	66	11.6
	Total	127		567	
6	Annelida	55	51.4	185	54.9
	Mollusca	10	9.3	20	5.9
	Arthropoda	38	35.5	122	36.2
	Echinodermata	1	0.9	2	0.6
	Other Taxa	3	2.8	8	2.4
	Total	107		337	

Table 3 continued:

Station	Taxa	Total No.		Total No.	
		Taxa	% Total	Individuals	% Total
7	Annelida	37	40.7	182	48.3
	Mollusca	18	19.8	106	28.1
	Arthropoda	29	31.9	77	20.4
	Echinodermata	0	0.0	0	0.0
	Other Taxa	7	7.7	12	3.2
	Total	91		377	
8	Annelida	59	56.7	374	77.9
	Mollusca	8	7.7	24	5.0
	Arthropoda	31	29.8	49	10.2
	Echinodermata	1	1.0	2	0.4
	Other Taxa	5	4.8	31	6.5
	Total	104		480	
9	Annelida	30	34.9	145	41.8
	Mollusca	17	19.8	63	18.2
	Arthropoda	32	37.2	96	27.7
	Echinodermata	3	3.5	25	7.2
	Other Taxa	4	4.7	18	5.2
	Total	86		347	
10	Annelida	55	67.1	211	77.9
	Mollusca	3	3.7	8	3.0
	Arthropoda	17	20.7	31	11.4
	Echinodermata	1	1.2	7	2.6
	Other Taxa	6	7.3	14	5.2
	Total	82		271	
11	Annelida	11	30.6	48	37.8
	Mollusca	15	41.7	60	47.2
	Arthropoda	7	19.4	10	7.9
	Echinodermata	0	0.0	0	0.0
	Other Taxa	3	8.3	9	7.1
	Total	36		127	
12	Annelida	32	37.2	121	31.3
	Mollusca	17	19.8	41	10.6
	Arthropoda	28	32.6	125	32.3
	Echinodermata	2	2.3	10	2.6
	Other Taxa	7	8.1	90	23.3
	Total	86		387	

Table 3 continued:

Station	Taxa	Total No.		Total No.	
		Taxa	% Total	Individuals	% Total
13	Annelida	57	70.4	164	80.0
	Mollusca	4	4.9	7	3.4
	Arthropoda	14	17.3	19	9.3
	Echinodermata	1	1.2	1	0.5
	Other Taxa	5	6.2	14	6.8
	Total	81		205	
14	Annelida	42	53.2	208	65.4
	Mollusca	12	15.2	42	13.2
	Arthropoda	17	21.5	39	12.3
	Echinodermata	1	1.3	1	0.3
	Other Taxa	7	8.9	28	8.8
	Total	79		318	
15	Annelida	40	47.6	151	47.5
	Mollusca	22	26.2	88	27.7
	Arthropoda	18	21.4	60	18.9
	Echinodermata	0	0.0	0	0.0
	Other Taxa	4	4.8	19	6.0
	Total	84		318	
16	Annelida	41	38.3	224	29.7
	Mollusca	36	33.6	431	57.2
	Arthropoda	20	18.7	71	9.4
	Echinodermata	2	1.9	4	0.5
	Other Taxa	8	7.5	24	3.2
	Total	107		754	
17	Annelida	42	56.8	202	68.5
	Mollusca	8	10.8	12	4.1
	Arthropoda	16	21.6	31	10.5
	Echinodermata	1	1.4	3	1.0
	Other Taxa	7	9.5	47	15.9
	Total	74		295	
18	Annelida	62	67.4	148	72.2
	Mollusca	6	6.5	7	3.4
	Arthropoda	18	19.6	35	17.1
	Echinodermata	2	2.2	5	2.4
	Other Taxa	4	4.3	10	4.9
	Total	92		205	

Table 3 continued:

Station	Taxa	Total No.		Total No.	
		Taxa	% Total	Individuals	% Total
19	Annelida	19	70.4	90	90.0
	Mollusca	3	11.1	3	3.0
	Arthropoda	1	3.7	1	1.0
	Echinodermata	0	0.0	0	0.0
	Other Taxa	4	14.8	6	6.0
	Total	27		100	
20	Annelida	13	37.1	28	25.9
	Mollusca	8	22.9	12	11.1
	Arthropoda	7	20.0	52	48.1
	Echinodermata	1	2.9	2	1.9
	Other Taxa	6	17.1	14	13.0
	Total	35		108	
21	Annelida	43	53.1	574	82.1
	Mollusca	9	11.1	24	3.4
	Arthropoda	23	28.4	49	7.0
	Echinodermata	0	0.0	0	0.0
	Other Taxa	6	7.4	52	7.4
	Total	81		699	
22	Annelida	55	45.1	165	45.5
	Mollusca	21	17.2	69	19.0
	Arthropoda	37	30.3	85	23.4
	Echinodermata	1	0.8	20	5.5
	Other Taxa	8	6.6	24	6.6
	Total	122		363	
23	Annelida	88	56.1	613	69.1
	Mollusca	19	12.1	36	4.1
	Arthropoda	40	25.5	214	24.1
	Echinodermata	1	0.6	1	0.1
	Other Taxa	9	5.7	23	2.6
	Total	157		887	
24	Annelida	28	43.1	45	39.8
	Mollusca	8	12.3	13	11.5
	Arthropoda	26	40.0	48	42.5
	Echinodermata	0	0.0	0	0.0
	Other Taxa	3	4.6	7	6.2
	Total	65		113	

Table 3 continued:

Station	Taxa	Total No.		Total No.	
		Taxa	% Total	Individuals	% Total
25	Annelida	79	56.8	390	75.9
	Mollusca	13	9.4	22	4.3
	Arthropoda	37	26.6	65	12.6
	Echinodermata	2	1.4	3	0.6
	Other Taxa	8	5.8	34	6.6
	Total	139		514	
26	Annelida	50	59.5	218	69.9
	Mollusca	7	8.3	9	2.9
	Arthropoda	19	22.6	47	15.1
	Echinodermata	0	0.0	0	0.0
	Other Taxa	8	9.5	38	12.2
	Total	84		312	
27	Annelida	62	57.9	473	72.4
	Mollusca	8	7.5	10	1.5
	Arthropoda	28	26.2	102	15.6
	Echinodermata	1	0.9	2	0.3
	Other Taxa	8	7.5	66	10.1
	Total	107		653	
28	Annelida	31	55.4	100	72.5
	Mollusca	7	12.5	9	6.5
	Arthropoda	12	21.4	17	12.3
	Echinodermata	1	1.8	1	0.7
	Other Taxa	5	8.9	11	8.0
	Total	56		138	
29	Annelida	43	45.3	98	39.0
	Mollusca	17	17.9	56	22.3
	Arthropoda	23	24.2	57	22.7
	Echinodermata	1	1.1	1	0.4
	Other Taxa	11	11.6	39	15.5
	Total	95		251	
30	Annelida	35	60.3	99	62.7
	Mollusca	6	10.3	14	8.9
	Arthropoda	11	19.0	20	12.7
	Echinodermata	1	1.7	3	1.9
	Other Taxa	5	8.6	22	13.9
	Total	58		158	

Table 3 continued:

Station	Taxa	Total No.		Total No.	
		Taxa	% Total	Individuals	% Total
31	Annelida	12	41.4	53	46.5
	Mollusca	9	31.0	30	26.3
	Arthropoda	6	20.7	24	21.1
	Echinodermata	0	0.0	0	0.0
	Other Taxa	2	6.9	7	6.1
	Total	29		114	
32	Annelida	29	46.8	94	47.7
	Mollusca	8	12.9	30	15.2
	Arthropoda	17	27.4	38	19.3
	Echinodermata	1	1.6	1	0.5
	Other Taxa	7	11.3	34	17.3
	Total	62		197	
33	Annelida	51	59.3	452	68.8
	Mollusca	1	1.2	1	0.2
	Arthropoda	26	30.2	124	18.9
	Echinodermata	1	1.2	1	0.2
	Other Taxa	7	8.1	79	12.0
	Total	86		657	
34	Annelida	65	61.9	357	83.8
	Mollusca	9	8.6	17	4.0
	Arthropoda	24	22.9	41	9.6
	Echinodermata	3	2.9	3	0.7
	Other Taxa	4	3.8	8	1.9
	Total	105		426	
35	Annelida	40	41.2	224	57.0
	Mollusca	22	22.7	78	19.8
	Arthropoda	25	25.8	64	16.3
	Echinodermata	3	3.1	3	0.8
	Other Taxa	7	7.2	24	6.1
	Total	97		393	
36	Annelida	63	62.4	207	70.9
	Mollusca	5	5.0	9	3.1
	Arthropoda	25	24.8	61	20.9
	Echinodermata	4	4.0	7	2.4
	Other Taxa	4	4.0	8	2.7
	Total	101		292	

Table 3 continued:

Station	Taxa	Total No.		Total No.	
		Taxa	% Total	Individuals	% Total
37	Annelida	36	48.6	641	83.7
	Mollusca	15	20.3	69	9.0
	Arthropoda	18	24.3	33	4.3
	Echinodermata	0	0.0	0	0.0
	Other Taxa	5	6.8	23	3.0
	Total	74		766	
38	Annelida	73	67.0	276	81.2
	Mollusca	9	8.3	15	4.4
	Arthropoda	21	19.3	39	11.5
	Echinodermata	1	0.9	1	0.3
	Other Taxa	5	4.6	9	2.6
	Total	109		340	
39	Annelida	18	66.7	41	47.7
	Mollusca	5	18.5	11	12.8
	Arthropoda	2	7.4	5	5.8
	Echinodermata	0	0.0	0	0.0
	Other Taxa	2	7.4	29	33.7
	Total	27		86	
40	Annelida	39	43.8	125	21.6
	Mollusca	3	3.4	7	1.2
	Arthropoda	40	44.9	417	72.1
	Echinodermata	2	2.2	2	0.3
	Other Taxa	5	5.6	27	4.7
	Total	89		578	
41	Annelida	63	43.8	478	66.9
	Mollusca	30	20.8	117	16.4
	Arthropoda	43	29.9	98	13.7
	Echinodermata	1	0.7	2	0.3
	Other Taxa	7	4.9	20	2.8
	Total	144		715	
42	Annelida	53	50.0	189	57.1
	Mollusca	16	15.1	41	12.4
	Arthropoda	28	26.4	81	24.5
	Echinodermata	2	1.9	5	1.5
	Other Taxa	7	6.6	15	4.5
	Total	106		331	

Table 3 continued:

Station	Taxa	Total No.		Total No.	
		Taxa	% Total	Individuals	% Total
43	Annelida	28	46.7	54	40.0
	Mollusca	14	23.3	28	20.7
	Arthropoda	13	21.7	41	30.4
	Echinodermata	0	0.0	0	0.0
	Other Taxa	5	8.3	12	8.9
	Total	60		135	
44	Annelida	39	51.3	131	54.1
	Mollusca	14	18.4	25	10.3
	Arthropoda	16	21.1	58	24.0
	Echinodermata	1	1.3	16	6.6
	Other Taxa	6	7.9	12	5.0
	Total	76		242	
45	Annelida	54	52.9	169	65.0
	Mollusca	12	11.8	26	10.0
	Arthropoda	28	27.5	50	19.2
	Echinodermata	1	1.0	6	2.3
	Other Taxa	7	6.9	9	3.5
	Total	102		260	
46	Annelida	26	55.3	51	52.6
	Mollusca	7	14.9	15	15.5
	Arthropoda	9	19.1	16	16.5
	Echinodermata	0	0.0	0	0.0
	Other Taxa	5	10.6	15	15.5
	Total	47		97	
47	Annelida	18	48.6	30	52.6
	Mollusca	5	13.5	6	10.5
	Arthropoda	10	27.0	13	22.8
	Echinodermata	0	0.0	0	0.0
	Other Taxa	4	10.8	8	14.0
	Total	37		57	
48	Annelida	30	42.3	119	55.3
	Mollusca	15	21.1	18	8.4
	Arthropoda	20	28.2	68	31.6
	Echinodermata	1	1.4	1	0.5
	Other Taxa	5	7.0	9	4.2
	Total	71		215	

Table 3 continued:

Station	Taxa	Total No. Taxa	% Total	Total No. Individuals	% Total
49	Annelida	56	60.9	276	77.1
	Mollusca	10	10.9	20	5.6
	Arthropoda	17	18.5	29	8.1
	Echinodermata	2	2.2	2	0.6
	Other Taxa	7	7.6	31	8.7
	Total	92		358	
50	Annelida	53	46.5	205	51.3
	Mollusca	17	14.9	45	11.3
	Arthropoda	37	32.5	137	34.3
	Echinodermata	2	1.8	3	0.8
	Other Taxa	5	4.4	10	2.5
	Total	114		400	

Table 4. Distribution and abundance and of benthic macroinfaunal taxa for the West Indian Shelf stations, 2007.

Taxa	Phylum	Class	No. of Individuals	% Total	Cumulative %	Station Occurrence	% Station Occurrence
<i>Prionospio</i> (LPIL)	Ann	Poly	1203	6.96	6.96	45	90
Tubificidae (LPIL)	Ann	Olig	624	3.61	10.57	42	84
<i>Prionospio cristata</i>	Ann	Poly	605	3.50	14.07	30	60
<i>Goniadides carolinae</i>	Ann	Poly	382	2.21	16.28	15	30
<i>Fabricinuda trilobata</i>	Ann	Poly	377	2.18	18.46	37	74
Rhynchocoela (LPIL)	Rhy	-	375	2.17	20.63	45	90
Lucinidae (LPIL)	Mol	Biva	372	2.15	22.78	18	36
<i>Armandia maculata</i>	Ann	Poly	327	1.89	24.67	40	80
<i>Chone</i> (LPIL)	Ann	Poly	304	1.76	26.43	34	68
<i>Magelona pettiboneae</i>	Ann	Poly	289	1.67	28.11	28	56
<i>Leptocheilia</i> (LPIL)	Art	Mala	281	1.63	29.73	29	58
<i>Paleanotus</i> sp. A	Ann	Poly	241	1.39	31.13	27	54
<i>Litocorsa antennata</i>	Ann	Poly	212	1.23	32.35	27	54
Branchiostoma (LPIL)	Cho	Lept	203	1.17	33.53	20	40
Maldanidae (LPIL)	Ann	Poly	194	1.12	34.65	40	80
<i>Exogone lourei</i>	Ann	Poly	187	1.08	35.73	18	36
<i>Paraprionospio pinnata</i>	Ann	Poly	179	1.04	36.77	20	40
Bivalvia (LPIL)	Mol	Biva	164	0.95	37.71	40	80
<i>Tellina</i> (LPIL)	Mol	Biva	154	0.89	38.61	25	50
<i>Ceratocephale oculata</i>	Ann	Poly	150	0.87	39.47	25	50
<i>Synelmis ewingi</i>	Ann	Poly	148	0.86	40.33	23	46
<i>Rutiderma darbyi</i>	Art	Ostr	145	0.84	41.17	24	48
Sipuncula (LPIL)	Sip	-	143	0.83	42.00	31	62
<i>Mediomastus</i> (LPIL)	Ann	Poly	134	0.78	42.77	27	54
<i>Branchiommma nigromaculata</i>	Ann	Poly	131	0.76	43.53	5	10
<i>Xenanthura brevitelson</i>	Art	Mala	129	0.75	44.28	33	66
Spionidae (LPIL)	Ann	Poly	119	0.69	44.96	34	68
Ampharetidae (LPIL)	Ann	Poly	118	0.68	45.65	28	56
Sabellidae (LPIL)	Ann	Poly	117	0.68	46.32	29	58
<i>Scoletoma verrilli</i>	Ann	Poly	116	0.67	46.99	32	64
<i>Sigambra tentaculata</i>	Ann	Poly	115	0.67	47.66	20	40
Capitellidae (LPIL)	Ann	Poly	110	0.64	48.30	32	64
<i>Maera caroliniana</i>	Art	Mala	110	0.64	48.93	7	14
Terebellidae (LPIL)	Ann	Poly	109	0.63	49.56	25	50
<i>Tubulanus</i> (LPIL)	Rhy	Anop	109	0.63	50.19	24	48
<i>Sphaerosyllis piriferopsis</i>	Ann	Poly	106	0.61	50.81	21	42
<i>Aricidea</i> (LPIL)	Ann	Poly	105	0.61	51.41	30	60
<i>Haplosyllis spongicola</i>	Ann	Poly	94	0.54	51.96	10	20
Aoridae (LPIL)	Art	Mala	92	0.53	52.49	23	46
<i>Cumella</i> (LPIL)	Art	Mala	90	0.52	53.01	25	50
<i>Pisone</i> sp. A	Ann	Poly	89	0.51	53.53	12	24
Melitidae (LPIL)	Art	Mala	88	0.51	54.04	18	36
<i>Cupuladria</i> (LPIL)	Ect	Gymn	87	0.50	54.54	25	50
<i>Psammokalliapseudes granulosus</i>	Art	Mala	87	0.50	55.04	13	26
<i>Ancistrosyllis hartmanae</i>	Ann	Poly	82	0.47	55.52	8	16
Cirratulidae (LPIL)	Ann	Poly	81	0.47	55.98	29	58
<i>Gammaropsis</i> (LPIL)	Art	Mala	80	0.46	56.45	17	34
<i>Eunice unifrons</i>	Ann	Poly	78	0.45	56.90	16	32
<i>Galathowenia oculata</i>	Ann	Poly	78	0.45	57.35	28	56
<i>Ampelisca</i> (LPIL)	Art	Mala	77	0.45	57.80	27	54
<i>Euchone incolor</i>	Ann	Poly	76	0.44	58.24	13	26
Glyceridae (LPIL)	Ann	Poly	74	0.43	58.66	15	30
<i>Harbansus paucichelatus</i>	Art	Ostr	73	0.42	59.09	22	44
<i>Codakia pectinella</i>	Mol	Biva	72	0.42	59.50	8	16
<i>Heteropodarke formalis</i>	Ann	Poly	70	0.40	59.91	12	24
Serpulidae (LPIL)	Ann	Poly	70	0.40	60.31	16	32
<i>Goniadella</i> sp. A	Ann	Poly	69	0.40	60.71	12	24

Table 4 continued:

Taxa	Phylum	Class	No. of		Cumulative	Station	% Station
			Individuals	% Total			
Lineidae (LPIL)	Rhy	Anop	68	0.39	61.11	22	44
Ophiuroidea (LPIL)	Ech	Ophi	66	0.38	61.49	19	38
<i>Chevalia carpenteri</i>	Art	Mala	65	0.38	61.86	15	30
Enchytraeidae (LPIL)	Ann	Olig	65	0.38	62.24	17	34
<i>Protodorvillea kefersteini</i>	Ann	Poly	65	0.38	62.61	17	34
<i>Cirrophorus</i> (LPIL)	Ann	Poly	64	0.37	62.99	15	30
Tellinidae (LPIL)	Mol	Biva	64	0.37	63.36	15	30
<i>Cirrophorus ilvana</i>	Ann	Poly	62	0.36	63.71	12	24
<i>Spio pettiboneae</i>	Ann	Poly	61	0.35	64.07	17	34
<i>Aricidea taylori</i>	Ann	Poly	58	0.34	64.40	20	40
Nereididae (LPIL)	Ann	Poly	58	0.34	64.74	18	36
<i>Pitar fulminatus</i>	Mol	Biva	58	0.34	65.07	7	14
Brachiopoda (LPIL)	Bra	-	57	0.33	65.40	23	46
<i>Paramphinome</i> sp. B	Ann	Poly	57	0.33	65.73	17	34
<i>Fimbriosthenelais</i> (LPIL)	Ann	Poly	55	0.32	66.05	22	44
<i>Lucina</i> (LPIL)	Mol	Biva	55	0.32	66.37	10	20
<i>Parapionosyllis uebelackerae</i>	Ann	Poly	55	0.32	66.69	8	16
Syllidae (LPIL)	Ann	Poly	54	0.31	67.00	20	40
<i>Levinsenia gracilis</i>	Ann	Poly	53	0.31	67.31	18	36
<i>Monticellina dorsobranchialis</i>	Ann	Poly	53	0.31	67.61	20	40
<i>Elasmopus</i> (LPIL)	Art	Mala	52	0.30	67.91	6	12
<i>Exogone dispar</i>	Ann	Poly	51	0.30	68.21	10	20
<i>Eusarsiella</i> (LPIL)	Art	Ostr	50	0.29	68.50	22	44
<i>Eusarsiella dominicana</i>	Art	Ostr	50	0.29	68.79	10	20
Nephtyidae (LPIL)	Ann	Poly	50	0.29	69.08	13	26
<i>Crassinella guadalupensis</i>	Mol	Biva	48	0.28	69.35	14	28
<i>Ingolfiella fuscina</i>	Art	Mala	48	0.28	69.63	2	4
<i>Americhelidium americanum</i>	Art	Mala	47	0.27	69.90	13	26
Onuphidae (LPIL)	Ann	Poly	46	0.27	70.17	24	48
<i>Phtisica marina</i>	Art	Mala	46	0.27	70.44	12	24
<i>Aricidea suecica</i>	Ann	Poly	45	0.26	70.70	14	28
<i>Owenia fusiformis</i>	Ann	Poly	45	0.26	70.96	17	34
<i>Codakia orbicularis</i>	Mol	Biva	43	0.25	71.21	6	12
<i>Eusarsiella radiicosta</i>	Art	Ostr	43	0.25	71.46	13	26
Hesionidae (LPIL)	Ann	Poly	43	0.25	71.70	14	28
<i>Deutella incerta</i>	Art	Mala	42	0.24	71.95	15	30
<i>Pionosyllis gesae</i>	Ann	Poly	42	0.24	72.19	17	34
<i>Solemya occidentalis</i>	Mol	Biva	42	0.24	72.43	6	12
<i>Chloeia viridis</i>	Ann	Poly	41	0.24	72.67	16	32
<i>Magelona</i> sp. C	Ann	Poly	41	0.24	72.91	19	38
<i>Syllis cornuta</i>	Ann	Poly	41	0.24	73.14	11	22
Turbellaria (LPIL)	Pla	Turb	41	0.24	73.38	18	36
<i>Axiothella mucosa</i>	Ann	Poly	40	0.23	73.61	12	24
<i>Glycera</i> (LPIL)	Ann	Poly	40	0.23	73.84	17	34
<i>Spiophanes bombyx</i>	Ann	Poly	40	0.23	74.08	9	18
<i>Gouldia cerina</i>	Mol	Biva	39	0.23	74.30	13	26
<i>Terebellides</i> sp. A	Ann	Poly	39	0.23	74.53	17	34
<i>Cossura soyeri</i>	Ann	Poly	38	0.22	74.75	3	6
<i>Spio</i> (LPIL)	Ann	Poly	38	0.22	74.97	19	38
<i>Schistomeringos pectinata</i>	Ann	Poly	37	0.21	75.18	13	26
<i>Bunakenia</i> sp. B	Art	Mala	36	0.21	75.39	12	24
<i>Ceratonereis</i> (LPIL)	Ann	Poly	36	0.21	75.60	15	30
Anthuridae (LPIL)	Art	Mala	35	0.20	75.80	5	10
Lumbrineridae (LPIL)	Ann	Poly	35	0.20	76.00	18	36
<i>Mooreonuphis pallidula</i>	Ann	Poly	35	0.20	76.20	17	34
<i>Nucula aegeensis</i>	Mol	Biva	35	0.20	76.41	10	20
<i>Nereis falsa</i>	Ann	Poly	34	0.20	76.60	10	20
<i>Hesionura coineau</i>	Ann	Poly	33	0.19	76.79	7	14

Table 4 continued:

Taxa	Phylum	Class	No. of Individuals	% Total	Cumulative %	Station Occurrence	% Station Occurrence
Actiniaria (LPIL)	Cni	Anth	31	0.18	76.97	15	30
<i>Acuminodeutopus naglei</i>	Art	Mala	30	0.17	77.15	12	24
Amphiuridae (LPIL)	Ech	Ophi	30	0.17	77.32	11	22
Echinoidea (LPIL)	Ech	Echin	29	0.17	77.49	9	18
<i>Metharpinia floridana</i>	Art	Mala	29	0.17	77.66	2	4
<i>Pseudovermilia occidentalis</i>	Ann	Poly	29	0.17	77.82	5	10
<i>Rhepoxynius epistomus</i>	Art	Mala	29	0.17	77.99	5	10
<i>Lumbrinerides acuta</i>	Ann	Poly	28	0.16	78.15	10	20
<i>Lumbrineris latreilli</i>	Ann	Poly	28	0.16	78.32	11	22
<i>Nereis</i> (LPIL)	Ann	Poly	28	0.16	78.48	11	22
<i>Onchnesoma steenstrupi</i>	Sip	-	28	0.16	78.64	3	6
<i>Photis</i> (LPIL)	Art	Mala	28	0.16	78.80	16	32
<i>Crassinella martinicensis</i>	Mol	Biva	27	0.16	78.96	7	14
<i>Eudevenopus honduranus</i>	Art	Mala	27	0.16	79.11	5	10
Paraonidae (LPIL)	Ann	Poly	27	0.16	79.27	20	40
<i>Podarkeopsis levifuscina</i>	Ann	Poly	27	0.16	79.43	16	32
<i>Poecilochaetus johnsoni</i>	Ann	Poly	27	0.16	79.58	13	26
<i>Aricidea catherinae</i>	Ann	Poly	26	0.15	79.73	9	18
<i>Diplodonta</i> (LPIL)	Mol	Biva	26	0.15	79.88	11	22
<i>Heteropodarke lyonsi</i>	Ann	Poly	26	0.15	80.03	11	22
<i>Lumbrineris coccinea</i>	Ann	Poly	26	0.15	80.19	10	20
<i>Notomastus</i> (LPIL)	Ann	Poly	26	0.15	80.34	12	24
<i>Taylorpholoe hirsuta</i>	Ann	Poly	26	0.15	80.49	12	24
<i>Automate</i> (LPIL)	Art	Mala	25	0.14	80.63	10	20
Decapoda (LPIL)	Art	Mala	25	0.14	80.78	18	36
<i>Megalomma</i> (LPIL)	Ann	Poly	25	0.14	80.92	9	18
<i>Varicorbula operculata</i>	Mol	Biva	25	0.14	81.06	10	20
<i>Cyclaspis</i> (LPIL)	Art	Mala	24	0.14	81.20	12	24
<i>Glycera</i> sp. E	Ann	Poly	24	0.14	81.34	6	12
<i>Rutiderma mollitum</i>	Art	Ostr	24	0.14	81.48	10	20
Genus F Spionidae Genus F	Ann	Poly	23	0.13	81.61	5	10
Phoxocephalidae (LPIL)	Art	Mala	23	0.13	81.75	10	20
Polyplacophora (LPIL)	Mol	Polyp	23	0.13	81.88	11	22
Amphipoda (LPIL)	Art	Mala	22	0.13	82.01	17	34
Oedicerotidae (LPIL)	Art	Mala	22	0.13	82.13	8	16
<i>Aspidosiphon</i> (LPIL)	Sip	-	21	0.12	82.26	12	24
<i>Exogone</i> (LPIL)	Ann	Poly	21	0.12	82.38	11	22
<i>Lumbrineris</i> sp. D	Ann	Poly	21	0.12	82.50	4	8
<i>Notomastus tenuis</i>	Ann	Poly	21	0.12	82.62	9	18
<i>Paramicrodeutopus myersi</i>	Art	Mala	21	0.12	82.74	5	10
<i>Polycirrus plumosus</i>	Ann	Poly	21	0.12	82.86	12	24
<i>Polygordius</i> (LPIL)	Ann	Poly	21	0.12	82.99	5	10
<i>Ampelisca abdita</i>	Art	Mala	20	0.12	83.10	8	16
Asciacea (LPIL)	Cho	Asci	20	0.12	83.22	10	20
<i>Cirrophorus branchiatus</i>	Ann	Poly	20	0.12	83.33	5	10
<i>Chione</i> (LPIL)	Mol	Biva	19	0.11	83.44	1	2
<i>Goniada maculata</i>	Ann	Poly	19	0.11	83.55	9	18
<i>Kalliapseudes macsweenyi</i>	Art	Mala	19	0.11	83.66	9	18
<i>Lysippe</i> cf. <i>annectens</i>	Ann	Poly	19	0.11	83.77	3	6
<i>Plakosyllis quadrioculata</i>	Ann	Poly	19	0.11	83.88	9	18
<i>Pseudophilomedes ambon</i>	Art	Ostr	19	0.11	83.99	9	18
<i>Amakusanthura magnifica</i>	Art	Mala	18	0.10	84.10	10	20
<i>Harmothoe imbricata</i>	Ann	Poly	18	0.10	84.20	6	12
Ischyroceridae (LPIL)	Art	Mala	18	0.10	84.30	7	14
<i>Leptochela papulata</i>	Art	Mala	18	0.10	84.41	8	16
<i>Lumbrineris</i> (LPIL)	Ann	Poly	18	0.10	84.51	13	26
<i>Nematonereis hebes</i>	Ann	Poly	18	0.10	84.62	9	18
<i>Nereis micromma</i>	Ann	Poly	18	0.10	84.72	8	16

Table 4 continued:

Taxa	Phylum	Class	No. of Individuals	% Total	Cumulative %	Station Occurrence	% Station Occurrence
<i>Pagurus</i> (LPIL)	Art	Mala	18	0.10	84.82	8	16
<i>Rildardanus</i> sp. A	Art	Mala	18	0.10	84.93	2	4
<i>Sigambra pettiboneae</i>	Ann	Poly	18	0.10	85.03	4	8
<i>Apoprionospio pygmaea</i>	Ann	Poly	17	0.10	85.13	2	4
<i>Aricidea philbinae</i>	Ann	Poly	17	0.10	85.23	3	6
<i>Atys riiseana</i>	Mol	Gast	17	0.10	85.33	9	18
<i>Caecum pulchellum</i>	Mol	Gast	17	0.10	85.43	3	6
<i>Calozodion multispinosum</i>	Art	Mala	17	0.10	85.53	3	6
<i>Caulleriella</i> (LPIL)	Ann	Poly	17	0.10	85.62	5	10
<i>Corbula contracta</i>	Mol	Biva	17	0.10	85.72	9	18
<i>Ervilia concentrica</i>	Mol	Biva	17	0.10	85.82	4	8
<i>Leptochela</i> (LPIL)	Art	Mala	17	0.10	85.92	6	12
<i>Semele nuculoides</i>	Mol	Biva	17	0.10	86.02	5	10
Alpheidae (LPIL)	Art	Mala	16	0.09	86.11	9	18
<i>Eunice</i> (LPIL)	Ann	Poly	16	0.09	86.20	10	20
Gastropoda (LPIL)	Mol	Gast	16	0.09	86.29	11	22
<i>Netamelieta barnardi</i>	Art	Mala	16	0.09	86.39	4	8
Ophiocomidae (LPIL)	Ech	Ophi	16	0.09	86.48	1	2
<i>Pettiboneia duofurca</i>	Ann	Poly	16	0.09	86.57	9	18
Phyllodocidae (LPIL)	Ann	Poly	16	0.09	86.66	9	18
<i>Sipunculus nudus</i>	Sip	-	16	0.09	86.76	8	16
<i>Vaunthompsonia minor</i>	Art	Mala	16	0.09	86.85	7	14
<i>Ampelisca</i> sp. C	Art	Mala	15	0.09	86.94	7	14
<i>Batea carinata</i>	Art	Mala	15	0.09	87.02	3	6
<i>Bemlos unifasciatus</i>	Art	Mala	15	0.09	87.11	2	4
<i>Gammaropsis</i> sp. C	Art	Mala	15	0.09	87.20	3	6
<i>Listriella barnardi</i>	Art	Mala	15	0.09	87.28	3	6
<i>Lucina muricata</i>	Mol	Biva	15	0.09	87.37	4	8
<i>Opisthodonta</i> sp. B	Ann	Poly	15	0.09	87.46	11	22
Semelidae (LPIL)	Mol	Biva	15	0.09	87.54	9	18
<i>Ampelisca</i> sp. N	Art	Mala	14	0.08	87.63	3	6
<i>Crassinella</i> (LPIL)	Mol	Biva	14	0.08	87.71	8	16
<i>Dentalium laqueatum</i>	Mol	Scap	14	0.08	87.79	1	2
<i>Lucina multilineata</i>	Mol	Biva	14	0.08	87.87	1	2
Paguridae (LPIL)	Art	Mala	14	0.08	87.95	7	14
<i>Prionospio multibranchiata</i>	Ann	Poly	14	0.08	88.03	6	12
<i>Processa</i> (LPIL)	Art	Mala	14	0.08	88.11	8	16
<i>Semele</i> (LPIL)	Mol	Biva	14	0.08	88.19	9	18
<i>Syllis danieli</i>	Ann	Poly	14	0.08	88.27	7	14
<i>Abra</i> (LPIL)	Mol	Biva	13	0.08	88.35	1	2
Aeginellidae (LPIL)	Art	Mala	13	0.08	88.42	8	16
<i>Ampharete</i> (LPIL)	Ann	Poly	13	0.08	88.50	1	2
<i>Aspidosiphon albus</i>	Sip	-	13	0.08	88.57	8	16
Branchiopoda (LPIL)	Art	Bran	13	0.08	88.65	2	4
<i>Campylaspis heardi</i>	Art	Mala	13	0.08	88.72	7	14
<i>Cyclaspis unicornis</i>	Art	Mala	13	0.08	88.80	7	14
<i>Eurydice convexa</i>	Art	Mala	13	0.08	88.87	8	16
<i>Eusarsiella cornuta</i>	Art	Ostr	13	0.08	88.95	9	18
Isaeidae (LPIL)	Art	Mala	13	0.08	89.03	10	20
<i>Lima pellucida</i>	Mol	Biva	13	0.08	89.10	6	12
Phyllodoce (LPIL)	Ann	Poly	13	0.08	89.18	8	16
<i>Sclerobregma stenocerum</i>	Ann	Poly	13	0.08	89.25	2	4
<i>Tellina radiata</i>	Mol	Biva	13	0.08	89.33	6	12
<i>Cyclaspis pustulata</i>	Art	Mala	12	0.07	89.40	5	10
<i>Dipolydora socialis</i>	Ann	Poly	12	0.07	89.46	6	12
<i>Notomastus latericeus</i>	Ann	Poly	12	0.07	89.53	10	20
Polynoidae (LPIL)	Ann	Poly	12	0.07	89.60	10	20
<i>Scoloplos texana</i>	Ann	Poly	12	0.07	89.67	1	2

Table 4 continued:

Taxa	Phylum	Class	No. of Individuals	% Total	Cumulative %	Station Occurrence	% Station Occurrence
Veneridae (LPIL)	Mol	Biva	12	0.07	89.74	8	16
<i>Acanthohaustorius pansus</i>	Art	Mala	11	0.06	89.81	3	6
<i>Aspidosiphon gosnoldi</i>	Sip	-	11	0.06	89.87	8	16
<i>Campylaspis</i> (LPIL)	Art	Mala	11	0.06	89.93	9	18
<i>Dentatisyllis carolinae</i>	Ann	Poly	11	0.06	90.00	6	12
<i>Dipolydora</i> (LPIL)	Ann	Poly	11	0.06	90.06	3	6
<i>Horoloanthura irpex</i>	Art	Mala	11	0.06	90.12	6	12
<i>Laevicardium laevigatum</i>	Mol	Biva	11	0.06	90.19	3	6
<i>Macoma tenta</i>	Mol	Biva	11	0.06	90.25	8	16
<i>Musculus lateralis</i>	Mol	Biva	11	0.06	90.32	4	8
<i>Odontosyllis enopla</i>	Ann	Poly	11	0.06	90.38	10	20
<i>Pitar simpsoni</i>	Mol	Biva	11	0.06	90.44	7	14
<i>Podarke obscura</i>	Ann	Poly	11	0.06	90.51	7	14
<i>Scoletoma</i> (LPIL)	Ann	Poly	11	0.06	90.57	7	14
<i>Shoemakerella</i> (LPIL)	Art	Mala	11	0.06	90.63	2	4
Synopiidae (LPIL)	Art	Mala	11	0.06	90.70	7	14
<i>Argopecten nucleus</i>	Mol	Biva	10	0.06	90.75	2	4
<i>Bemlos</i> (LPIL)	Art	Mala	10	0.06	90.81	4	8
<i>Cyclaspis</i> sp. O	Art	Mala	10	0.06	90.87	3	6
Eunicidae (LPIL)	Ann	Poly	10	0.06	90.93	6	12
<i>Galathea rostrata</i>	Art	Mala	10	0.06	90.99	5	10
<i>Glycera americana</i>	Ann	Poly	10	0.06	91.04	7	14
<i>Haplocytheridea setipunctata</i>	Art	Ostr	10	0.06	91.10	1	2
<i>Macrochaeta</i> sp. A	Ann	Poly	10	0.06	91.16	2	4
<i>Magelona</i> (LPIL)	Ann	Poly	10	0.06	91.22	9	18
Ostracoda (LPIL)	Art	Ostr	10	0.06	91.28	5	10
Questidae (LPIL)	Ann	Poly	10	0.06	91.33	1	2
Scaphopoda (LPIL)	Mol	Scap	10	0.06	91.39	6	12
Turridae (LPIL)	Mol	Gast	10	0.06	91.45	8	16
<i>Abra aequalis</i>	Mol	Biva	9	0.05	91.50	5	10
<i>Acteocina</i> (LPIL)	Mol	Gast	9	0.05	91.55	6	12
<i>Acteocina</i> sp. A	Mol	Gast	9	0.05	91.61	2	4
<i>Ancistrosyllis jonesi</i>	Ann	Poly	9	0.05	91.66	5	10
<i>Asteropterygion oculitristis</i>	Art	Ostr	9	0.05	91.71	2	4
<i>Brania wellfleetensis</i>	Ann	Poly	9	0.05	91.76	4	8
<i>Ceradocus shoemakeri</i>	Art	Mala	9	0.05	91.81	2	4
<i>Euchone</i> (LPIL)	Ann	Poly	9	0.05	91.87	5	10
Eulepethidae (LPIL)	Ann	Poly	9	0.05	91.92	5	10
<i>Eusarsiella spinosa</i>	Art	Ostr	9	0.05	91.97	5	10
<i>Glycera</i> sp. F	Ann	Poly	9	0.05	92.02	7	14
<i>Isolda pulchella</i>	Ann	Poly	9	0.05	92.07	6	12
Kalliapseudidae (LPIL)	Art	Mala	9	0.05	92.13	4	8
Limidae (LPIL)	Mol	Biva	9	0.05	92.18	5	10
<i>Magelona</i> sp. I	Ann	Poly	9	0.05	92.23	6	12
<i>Magelona</i> sp. L	Ann	Poly	9	0.05	92.28	3	6
<i>Metaphoxus</i> (LPIL)	Art	Mala	9	0.05	92.33	1	2
<i>Scoloplos rubra</i>	Ann	Poly	9	0.05	92.39	7	14
<i>Syllis garciai</i>	Ann	Poly	9	0.05	92.44	3	6
<i>Tectonatica pusilla</i>	Mol	Gast	9	0.05	92.49	6	12
Thraciidae (LPIL)	Mol	Biva	9	0.05	92.54	7	14
Thyasiridae (LPIL)	Mol	Biva	9	0.05	92.59	2	4
<i>Batea catharinensis</i>	Art	Mala	8	0.05	92.64	2	4
Calozodion (LPIL)	Art	Mala	8	0.05	92.69	5	10
Columbellidae (LPIL)	Mol	Gast	8	0.05	92.73	2	4
<i>Corbula</i> (LPIL)	Mol	Biva	8	0.05	92.78	3	6
<i>Cyclaspis varians</i>	Art	Mala	8	0.05	92.83	2	4
<i>Haminoea</i> sp. A	Mol	Gast	8	0.05	92.87	4	8
<i>Kalliapseudes bahamaensis</i>	Art	Mala	8	0.05	92.92	4	8

Table 4 continued:

Taxa	Phylum	Class	No. of Individuals	% Total	Cumulative %	Station Occurrence	% Station Occurrence
<i>Nereimyra</i> sp. A	Ann	Poly	8	0.05	92.96	1	2
<i>Parasterope hulingsi</i>	Art	Ostr	8	0.05	93.01	5	10
<i>Rictaxis punctostriatus</i>	Mol	Gast	8	0.05	93.06	5	10
<i>Rutiderma</i> (LPIL)	Art	Ostr	8	0.05	93.10	5	10
<i>Sabellaria</i> sp. A	Ann	Poly	8	0.05	93.15	1	2
<i>Spiophanes missionensis</i>	Ann	Poly	8	0.05	93.20	7	14
<i>Syllis</i> (LPIL)	Ann	Poly	8	0.05	93.24	8	16
Xanthidae (LPIL)	Art	Mala	8	0.05	93.29	6	12
Callianassidae (LPIL)	Art	Mala	7	0.04	93.33	6	12
<i>Caulleriella cf. alata</i>	Ann	Poly	7	0.04	93.37	5	10
<i>Chaetozone</i> sp. D	Ann	Poly	7	0.04	93.41	1	2
Corbulidae (LPIL)	Mol	Biva	7	0.04	93.45	3	6
<i>Dantya heardi</i>	Art	Ostr	7	0.04	93.49	3	6
<i>Euryplax nitida</i>	Art	Mala	7	0.04	93.53	6	12
<i>Leptochela bermudensis</i>	Art	Mala	7	0.04	93.57	1	2
Leucothoidae (LPIL)	Art	Mala	7	0.04	93.61	1	2
Lysianassidae (LPIL)	Art	Mala	7	0.04	93.65	5	10
<i>Macrocallista maculata</i>	Mol	Biva	7	0.04	93.69	5	10
Majidae (LPIL)	Art	Mala	7	0.04	93.73	5	10
Mysidae (LPIL)	Art	Mala	7	0.04	93.77	5	10
<i>Olivella</i> (LPIL)	Mol	Gast	7	0.04	93.82	4	8
<i>Pakistanapseudes</i> sp. A	Art	Mala	7	0.04	93.86	3	6
<i>Pectinaria gouldii</i>	Ann	Poly	7	0.04	93.90	5	10
<i>Pitar</i> (LPIL)	Mol	Biva	7	0.04	93.94	3	6
<i>Prionospio steenstrupi</i>	Ann	Poly	7	0.04	93.98	2	4
<i>Scoloplos</i> (LPIL)	Ann	Poly	7	0.04	94.02	6	12
<i>Sigambra</i> (LPIL)	Ann	Poly	7	0.04	94.06	6	12
<i>Amboleberis americana</i>	Art	Ostr	6	0.03	94.09	4	8
<i>Arabella mutans</i>	Ann	Poly	6	0.03	94.13	1	2
Arcidae (LPIL)	Mol	Biva	6	0.03	94.16	1	2
<i>Bowmaniella mexicana</i>	Art	Mala	6	0.03	94.20	2	4
<i>Caecum imbricatum</i>	Mol	Gast	6	0.03	94.23	6	12
<i>Ceradocus sheardi</i>	Art	Mala	6	0.03	94.27	2	4
<i>Crenella divaricata</i>	Mol	Biva	6	0.03	94.30	6	12
Dorvilleidae (LPIL)	Ann	Poly	6	0.03	94.34	5	10
<i>Harmothoe</i> (LPIL)	Ann	Poly	6	0.03	94.37	4	8
Hiatellidae (LPIL)	Mol	Biva	6	0.03	94.41	3	6
<i>Hoplomachus propinquus</i>	Art	Mala	6	0.03	94.44	3	6
<i>Leptochela serratorbita</i>	Art	Mala	6	0.03	94.47	5	10
<i>Lyonsia hyalina</i>	Mol	Biva	6	0.03	94.51	4	8
<i>Mesanthura</i> (LPIL)	Art	Mala	6	0.03	94.54	3	6
<i>Nephtys</i> (LPIL)	Ann	Poly	6	0.03	94.58	3	6
<i>Ogyrides alphaerostris</i>	Art	Mala	6	0.03	94.61	3	6
Olividae (LPIL)	Mol	Gast	6	0.03	94.65	2	4
Opheliidae (LPIL)	Ann	Poly	6	0.03	94.68	5	10
<i>Oxyurostylis</i> sp. B	Art	Mala	6	0.03	94.72	2	4
Pectinidae (LPIL)	Mol	Biva	6	0.03	94.75	5	10
<i>Phoronis</i> (LPIL)	Pho	-	6	0.03	94.79	2	4
<i>Phyllodoce arenae</i>	Ann	Poly	6	0.03	94.82	3	6
Podocopida (LPIL)	Art	Ostr	6	0.03	94.86	4	8
<i>Polycirrus</i> (LPIL)	Ann	Poly	6	0.03	94.89	5	10
<i>Pontomyia</i> (LPIL)	Art	Inse	6	0.03	94.93	1	2
Processidae (LPIL)	Art	Mala	6	0.03	94.96	4	8
<i>Ptilanthura tenuis</i>	Art	Mala	6	0.03	95.00	1	2
<i>Schistomeringos rudolphi</i>	Ann	Poly	6	0.03	95.03	5	10
Sigalionidae (LPIL)	Ann	Poly	6	0.03	95.07	4	8
<i>Spiophanes</i> (LPIL)	Ann	Poly	6	0.03	95.10	3	6
<i>Sthenelais</i> sp. A	Ann	Poly	6	0.03	95.13	2	4

Table 4 continued:

Taxa	Phylum	Class	No. of Individuals	% Total	Cumulative %	Station Occurrence	% Station Occurrence
<i>Synasterope setisparsa</i>	Art	Ostr	6	0.03	95.17	2	4
<i>Tellina alternata</i>	Mol	Biva	6	0.03	95.20	3	6
<i>Aglaophamus verrilli</i>	Ann	Poly	5	0.03	95.23	2	4
<i>Alpheus</i> (LPIL)	Art	Mala	5	0.03	95.26	3	6
<i>Apseudes</i> sp. A	Art	Mala	5	0.03	95.29	1	2
<i>Autolytus</i> (LPIL)	Ann	Poly	5	0.03	95.32	3	6
<i>Caecum johnsoni</i>	Mol	Gast	5	0.03	95.35	1	2
<i>Cardiomya</i> (LPIL)	Mol	Biva	5	0.03	95.38	4	8
<i>Drilonereis</i> (LPIL)	Ann	Poly	5	0.03	95.41	4	8
<i>Eusarsiella nodimarginus</i>	Art	Ostr	5	0.03	95.44	4	8
Flabelligeridae (LPIL)	Ann	Poly	5	0.03	95.46	4	8
Genus A Nototanaidae Genus A	Art	Mala	5	0.03	95.49	1	2
Goniadidae (LPIL)	Ann	Poly	5	0.03	95.52	4	8
Halacaridae (LPIL)	Art	Arac	5	0.03	95.55	2	4
<i>Laonice cirrata</i>	Ann	Poly	5	0.03	95.58	4	8
<i>Leitoscoloplos</i> (LPIL)	Ann	Poly	5	0.03	95.61	4	8
<i>Lysidice ninetta</i>	Ann	Poly	5	0.03	95.64	2	4
<i>Maera</i> (LPIL)	Art	Mala	5	0.03	95.67	3	6
<i>Meiosquilla quadridens</i>	Art	Mala	5	0.03	95.70	4	8
<i>Metatiron tropakis</i>	Art	Mala	5	0.03	95.72	1	2
<i>Mexieulepis weberi</i>	Ann	Poly	5	0.03	95.75	3	6
<i>Notomastus americanus</i>	Ann	Poly	5	0.03	95.78	4	8
<i>Nucula</i> (LPIL)	Mol	Biva	5	0.03	95.81	1	2
<i>Paranesidea</i> sp. A	Art	Ostr	5	0.03	95.84	2	4
<i>Pettibonella multiuncinata</i>	Ann	Poly	5	0.03	95.87	4	8
<i>Photis pugnator</i>	Art	Mala	5	0.03	95.90	4	8
<i>Pinnixa</i> (LPIL)	Art	Mala	5	0.03	95.93	5	10
<i>Pionosyllis</i> (LPIL)	Ann	Poly	5	0.03	95.96	3	6
<i>Pionosyllis weismanni</i>	Ann	Poly	5	0.03	95.98	5	10
<i>Rutiderma gyre</i>	Art	Ostr	5	0.03	96.01	5	10
<i>Scolelepis texana</i>	Ann	Poly	5	0.03	96.04	3	6
<i>Syllis ortizi</i>	Ann	Poly	5	0.03	96.07	3	6
<i>Trichobranchus glacialis</i>	Ann	Poly	5	0.03	96.10	5	10
<i>Acteocina candei</i>	Mol	Gast	4	0.02	96.12	2	4
<i>Ampelisca cristata</i>	Art	Mala	4	0.02	96.15	3	6
<i>Apseudes orghidani</i>	Art	Mala	4	0.02	96.17	2	4
<i>Aricidea wassi</i>	Ann	Poly	4	0.02	96.19	4	8
<i>Asteropella</i> (LPIL)	Art	Ostr	4	0.02	96.22	3	6
Atyidae (LPIL)	Art	Mala	4	0.02	96.24	1	2
<i>Caecum nitidium</i>	Mol	Gast	4	0.02	96.26	3	6
<i>Calyptraea centralis</i>	Mol	Gast	4	0.02	96.29	2	4
Cerithiidae (LPIL)	Mol	Gast	4	0.02	96.31	2	4
<i>Chione grus</i>	Mol	Biva	4	0.02	96.33	2	4
<i>Cuspidaria jeffreysi</i>	Mol	Biva	4	0.02	96.36	3	6
Cyindroleberididae (LPIL)	Art	Ostr	4	0.02	96.38	3	6
<i>Erichthonius brasiliensis</i>	Art	Mala	4	0.02	96.40	4	8
<i>Fimbriosthenelais minor</i>	Ann	Poly	4	0.02	96.42	3	6
<i>Garosyrrhoë bigarra</i>	Art	Mala	4	0.02	96.45	3	6
Goneplacidae (LPIL)	Art	Mala	4	0.02	96.47	4	8
<i>Hippomedon pensacola</i>	Art	Mala	4	0.02	96.49	3	6
Holothuroidea (LPIL)	Ech	Holo	4	0.02	96.52	4	8
<i>Kalliapseudes</i> (LPIL)	Art	Mala	4	0.02	96.54	4	8
<i>Laevicardium</i> (LPIL)	Mol	Biva	4	0.02	96.56	4	8
<i>Leiocapitella</i> sp. A	Ann	Poly	4	0.02	96.59	4	8
<i>Leptosynapta multigranula</i>	Ech	Holo	4	0.02	96.61	1	2
<i>Liocuna caeca</i>	Art	Mala	4	0.02	96.63	2	4
<i>Loimia medusa</i>	Ann	Poly	4	0.02	96.66	1	2
Melphidippidae (LPIL)	Art	Mala	4	0.02	96.68	2	4

Table 4 continued:

Taxa	Phylum	Class	No. of Individuals	% Total	Cumulative %	Station Occurrence	% Station Occurrence
<i>Mesochaetopterus</i> (LPIL)	Ann	Poly	4	0.02	96.70	4	8
<i>Munida</i> (LPIL)	Art	Mala	4	0.02	96.73	2	4
<i>Nannosquilla carolinensis</i>	Art	Mala	4	0.02	96.75	1	2
<i>Nuculana acuta</i>	Mol	Biva	4	0.02	96.77	3	6
<i>Odostomia</i> (LPIL)	Mol	Gast	4	0.02	96.79	4	8
Orbiniidae (LPIL)	Ann	Poly	4	0.02	96.82	4	8
<i>Oxyurostylis</i> (LPIL)	Art	Mala	4	0.02	96.84	2	4
<i>Paracypridina floridensis</i>	Art	Ostr	4	0.02	96.86	3	6
<i>Paramicrodeutopus</i> (LPIL)	Art	Mala	4	0.02	96.89	3	6
<i>Parasterope</i> (LPIL)	Art	Ostr	4	0.02	96.91	3	6
<i>Phascolion strombi</i>	Sip	-	4	0.02	96.93	3	6
<i>Podocerus kleidus</i>	Art	Mala	4	0.02	96.96	1	2
Porifera (LPIL)	Por	-	4	0.02	96.98	4	8
<i>Pseudophilomedes zeta</i>	Art	Ostr	4	0.02	97.00	3	6
<i>Scolelepis</i> (LPIL)	Ann	Poly	4	0.02	97.03	3	6
<i>Scolelepis squamata</i>	Ann	Poly	4	0.02	97.05	4	8
<i>Semele bellastrata</i>	Mol	Biva	4	0.02	97.07	3	6
<i>Sphaerosyllis</i> (LPIL)	Ann	Poly	4	0.02	97.10	4	8
<i>Strombiformis bilineatus</i>	Mol	Gast	4	0.02	97.12	4	8
<i>Syllis beneliahui</i>	Ann	Poly	4	0.02	97.14	3	6
<i>Trypanosyllis parvidentata</i>	Ann	Poly	4	0.02	97.17	3	6
Vitrinellidae (LPIL)	Mol	Gast	4	0.02	97.19	2	4
<i>Acanthohaustorius bousfieldi</i>	Art	Mala	3	0.02	97.21	1	2
<i>Acteocina bidentata</i>	Mol	Gast	3	0.02	97.22	2	4
<i>Albunea paretii</i>	Art	Mala	3	0.02	97.24	3	6
<i>Ampelisca</i> sp. Z	Art	Mala	3	0.02	97.26	1	2
<i>Amygdalum</i> (LPIL)	Mol	Biva	3	0.02	97.28	3	6
<i>Armandia</i> (LPIL)	Ann	Poly	3	0.02	97.29	1	2
<i>Armandia agilis</i>	Ann	Poly	3	0.02	97.31	3	6
<i>Barbatia candida</i>	Mol	Biva	3	0.02	97.33	1	2
<i>Bowmaniella</i> (LPIL)	Art	Mala	3	0.02	97.34	3	6
<i>Bushia elegans</i>	Mol	Biva	3	0.02	97.36	2	4
<i>Caecum</i> (LPIL)	Mol	Gast	3	0.02	97.38	1	2
<i>Ceradocus</i> (LPIL)	Art	Mala	3	0.02	97.40	3	6
<i>Cerapus</i> (LPIL)	Art	Mala	3	0.02	97.41	3	6
Cirolanidae (LPIL)	Art	Mala	3	0.02	97.43	1	2
<i>Crenella</i> (LPIL)	Mol	Biva	3	0.02	97.45	2	4
<i>Crepidula</i> (LPIL)	Mol	Gast	3	0.02	97.47	2	4
<i>Cuspidaria</i> (LPIL)	Mol	Biva	3	0.02	97.48	3	6
<i>Cyclaspis bacescui</i>	Art	Mala	3	0.02	97.50	3	6
<i>Dentimargo aureocincta</i>	Mol	Gast	3	0.02	97.52	1	2
<i>Diplodonta punctata</i>	Mol	Biva	3	0.02	97.54	1	2
<i>Ebalia</i> (LPIL)	Art	Mala	3	0.02	97.55	3	6
<i>Eurypylus rousei</i>	Art	Ostr	3	0.02	97.57	3	6
<i>Eusarsiella disparalis</i>	Art	Ostr	3	0.02	97.59	2	4
<i>Eusarsiella paniculata</i>	Art	Ostr	3	0.02	97.60	2	4
<i>Ficopomatus miamiensis</i>	Ann	Poly	3	0.02	97.62	1	2
Galatheidae (LPIL)	Art	Mala	3	0.02	97.64	3	6
<i>Granulina ovuliformis</i>	Mol	Gast	3	0.02	97.66	2	4
<i>Hourstonius laguna</i>	Art	Mala	3	0.02	97.67	1	2
<i>Laevicardium sybariticum</i>	Mol	Biva	3	0.02	97.69	3	6
<i>Leucothoe spinicarpa</i>	Art	Mala	3	0.02	97.71	2	4
<i>Levinsenia reducta</i>	Ann	Poly	3	0.02	97.73	3	6
<i>Linga amiantus</i>	Mol	Biva	3	0.02	97.74	1	2
<i>Magelona</i> sp. G	Ann	Poly	3	0.02	97.76	3	6
<i>Microcharon</i> sp. A	Art	Mala	3	0.02	97.78	2	4
<i>Microphthalmus hartmanae</i>	Ann	Poly	3	0.02	97.80	1	2
<i>Monticellina</i> (LPIL)	Ann	Poly	3	0.02	97.81	3	6

Table 4 continued:

Taxa	Phylum	Class	No. of Individuals	% Total	Cumulative %	Station Occurrence	% Station Occurrence
<i>Nuculana concentrica</i>	Mol	Biva	3	0.02	97.83	2	4
<i>Nudibranchia</i> (LPIL)	Mol	Gast	3	0.02	97.85	3	6
<i>Olivella dealbata</i>	Mol	Gast	3	0.02	97.87	1	2
<i>Paranebalia</i> (LPIL)	Art	Mala	3	0.02	97.88	3	6
<i>Paranebalia</i> sp. C	Art	Mala	3	0.02	97.90	2	4
<i>Phacoides pectinatus</i>	Mol	Biva	3	0.02	97.92	2	4
<i>Pherusa</i> (LPIL)	Ann	Poly	3	0.02	97.93	2	4
<i>Philine</i> (LPIL)	Mol	Gast	3	0.02	97.95	3	6
<i>Philomedidae</i> (LPIL)	Art	Ostr	3	0.02	97.97	3	6
<i>Pleustidae</i> (LPIL)	Art	Mala	3	0.02	97.99	1	2
<i>Polycirrus eximus dubius</i>	Ann	Poly	3	0.02	98.00	3	6
<i>Sabaco elongatus</i>	Ann	Poly	3	0.02	98.02	2	4
<i>Scalibregmatidae</i> (LPIL)	Ann	Poly	3	0.02	98.04	3	6
<i>Schistomeringos</i> (LPIL)	Ann	Poly	3	0.02	98.06	2	4
<i>Stenetrium stebbingi</i>	Art	Mala	3	0.02	98.07	1	2
<i>Syllis gracilis</i>	Ann	Poly	3	0.02	98.09	3	6
<i>Tellina nitens</i>	Mol	Biva	3	0.02	98.11	3	6
<i>Tharyx acutus</i>	Ann	Poly	3	0.02	98.13	2	4
<i>Travisia hobsonae</i>	Ann	Poly	3	0.02	98.14	2	4
<i>Trypanosyllis</i> (LPIL)	Ann	Poly	3	0.02	98.16	2	4
<i>Trypanosyllis coeliaca</i>	Ann	Poly	3	0.02	98.18	3	6
<i>Upogebia</i> (LPIL)	Art	Mala	3	0.02	98.19	2	4
<i>Vaunthompsonia</i> (LPIL)	Art	Mala	3	0.02	98.21	2	4
<i>Verticordia ornata</i>	Mol	Biva	3	0.02	98.23	3	6
<i>Volvulella persimilis</i>	Mol	Gast	3	0.02	98.25	2	4
<i>Actinoseta hummelincki</i>	Art	Ostr	2	0.01	98.26	1	2
<i>Ampeliscidae</i> (LPIL)	Art	Mala	2	0.01	98.27	1	2
<i>Amphilocheidae</i> (LPIL)	Art	Mala	2	0.01	98.28	2	4
<i>Amygdalum politum</i>	Mol	Biva	2	0.01	98.29	2	4
<i>Anchialina typica</i>	Art	Mala	2	0.01	98.30	2	4
<i>Apistobranchnus tullbergi</i>	Ann	Poly	2	0.01	98.32	2	4
<i>Aplacophora</i> (LPIL)	Mol	Apla	2	0.01	98.33	2	4
<i>Apseudes bermudensis</i>	Art	Mala	2	0.01	98.34	1	2
<i>Argissa hamatipes</i>	Art	Mala	2	0.01	98.35	2	4
<i>Asteroidea</i> (LPIL)	Ech	Aste	2	0.01	98.36	1	2
<i>Branchiosyllis exilis</i>	Ann	Poly	2	0.01	98.37	2	4
<i>Bushia</i> (LPIL)	Mol	Biva	2	0.01	98.39	1	2
<i>Cheramus</i> (LPIL)	Art	Mala	2	0.01	98.40	1	2
<i>Cirriformia</i> (LPIL)	Ann	Poly	2	0.01	98.41	1	2
<i>Cirriformia</i> sp. A	Ann	Poly	2	0.01	98.42	2	4
<i>Cnidaria</i> (LPIL)	Cni	-	2	0.01	98.43	2	4
<i>Dacrydium vitreum</i>	Mol	Biva	2	0.01	98.44	1	2
<i>Deflexilodes</i> (LPIL)	Art	Mala	2	0.01	98.46	2	4
<i>Diogenidae</i> (LPIL)	Art	Mala	2	0.01	98.47	2	4
<i>Diopatra cuprea</i>	Ann	Poly	2	0.01	98.48	2	4
<i>Diopatra tridentata</i>	Ann	Poly	2	0.01	98.49	2	4
<i>Dorvillea largidentis</i>	Ann	Poly	2	0.01	98.50	2	4
<i>Ehlersia ferrugina</i>	Ann	Poly	2	0.01	98.51	2	4
<i>Eucidaris tribuloides</i>	Ech	Echin	2	0.01	98.52	1	2
<i>Eumida sanguinea</i>	Ann	Poly	2	0.01	98.54	2	4
<i>Eurydice</i> (LPIL)	Art	Mala	2	0.01	98.55	2	4
<i>Gnathiidae</i> (LPIL)	Art	Mala	2	0.01	98.56	2	4
<i>Grubeulepis augeneri</i>	Ann	Poly	2	0.01	98.57	2	4
<i>Hemus cristulipes</i>	Art	Mala	2	0.01	98.58	1	2
<i>Heteromastus filiformis</i>	Ann	Poly	2	0.01	98.59	1	2
<i>Heteroserolis mgrayi</i>	Art	Mala	2	0.01	98.61	2	4
<i>Heterospio</i> sp. A	Ann	Poly	2	0.01	98.62	1	2
<i>Lembos</i> (LPIL)	Art	Mala	2	0.01	98.63	1	2

Table 4 continued:

Taxa	Phylum	Class	No. of		Cumulative	Station	% Station
			Individuals	% Total			
<i>Leptochelia longimana</i>	Art	Mala	2	0.01	98.64	2	4
Liljeborgiidae (LPIL)	Art	Mala	2	0.01	98.65	2	4
<i>Limatula setifera</i>	Mol	Biva	2	0.01	98.66	2	4
<i>Lucina leucocyma</i>	Mol	Biva	2	0.01	98.68	2	4
<i>Lumbrineriopsis gardineri</i>	Ann	Poly	2	0.01	98.69	2	4
<i>Macoma tageliformis</i>	Mol	Biva	2	0.01	98.70	2	4
<i>Megalomma</i> sp. A	Ann	Poly	2	0.01	98.71	2	4
<i>Meiosquilla</i> (LPIL)	Art	Mala	2	0.01	98.72	2	4
<i>Melanella</i> (LPIL)	Mol	Gast	2	0.01	98.73	2	4
<i>Monoculodes</i> sp. D	Art	Mala	2	0.01	98.74	2	4
Munnidae (LPIL)	Art	Mala	2	0.01	98.76	2	4
<i>Olivella floralia</i>	Mol	Gast	2	0.01	98.77	2	4
<i>Ophioderma appressum</i>	Ech	Ophi	2	0.01	98.78	2	4
Oweniidae (LPIL)	Ann	Poly	2	0.01	98.79	2	4
<i>Photis longicaudata</i>	Art	Mala	2	0.01	98.80	1	2
Pilargiidae (LPIL)	Ann	Poly	2	0.01	98.81	1	2
<i>Pista</i> (LPIL)	Ann	Poly	2	0.01	98.83	2	4
<i>Pista palmata</i>	Ann	Poly	2	0.01	98.84	2	4
<i>Pontogenia</i> sp. A	Ann	Poly	2	0.01	98.85	2	4
Portunidae (LPIL)	Art	Mala	2	0.01	98.86	2	4
<i>Prionotoleberis salomani</i>	Art	Ostr	2	0.01	98.87	1	2
<i>Protohadzia schoenerae</i>	Art	Mala	2	0.01	98.88	1	2
<i>Pseudophilomedes</i> (LPIL)	Art	Ostr	2	0.01	98.89	2	4
<i>Pteromeris perplana</i>	Mol	Biva	2	0.01	98.91	2	4
<i>Ranilia</i> (LPIL)	Art	Mala	2	0.01	98.92	2	4
<i>Ranilia muricata</i>	Art	Mala	2	0.01	98.93	2	4
Raninidae Genus A	Art	Mala	2	0.01	98.94	1	2
<i>Reticulocythereis</i> sp. B	Art	Ostr	2	0.01	98.95	1	2
Rutidermatidae (LPIL)	Art	Ostr	2	0.01	98.96	2	4
<i>Saccocirrus</i> (LPIL)	Ann	Poly	2	0.01	98.98	2	4
<i>Santia milleri</i>	Art	Mala	2	0.01	98.99	2	4
Scaphandridae (LPIL)	Mol	Gast	2	0.01	99.00	2	4
<i>Sigalion</i> sp. A	Ann	Poly	2	0.01	99.01	2	4
<i>Speocarcinus lobatus</i>	Art	Mala	2	0.01	99.02	1	2
<i>Spiochaetopterus oculatus</i>	Ann	Poly	2	0.01	99.03	2	4
Stenetriidae (LPIL)	Art	Mala	2	0.01	99.05	2	4
<i>Sthenelanelia</i> sp. A	Ann	Poly	2	0.01	99.06	2	4
<i>Streblosoma hartmanae</i>	Ann	Poly	2	0.01	99.07	1	2
<i>Strombiformis</i> (LPIL)	Mol	Gast	2	0.01	99.08	2	4
<i>Syllis</i> sp. C	Ann	Poly	2	0.01	99.09	2	4
Synaptidae (LPIL)	Ech	Holo	2	0.01	99.10	2	4
<i>Tellina aequistriata</i>	Mol	Biva	2	0.01	99.11	1	2
<i>Terebra</i> (LPIL)	Mol	Gast	2	0.01	99.13	1	2
<i>Terebra dislocata</i>	Mol	Gast	2	0.01	99.14	2	4
<i>Turbonilla</i> (LPIL)	Mol	Gast	2	0.01	99.15	2	4
<i>Acanthopale perkinsi</i>	Ann	Poly	1	0.01	99.16	1	2
<i>Accalathura setosa</i>	Art	Mala	1	0.01	99.16	1	2
Aclididae (LPIL)	Mol	Gast	1	0.01	99.17	1	2
Albuneidae (LPIL)	Art	Mala	1	0.01	99.17	1	2
<i>Ampelisca agassizi</i>	Art	Mala	1	0.01	99.18	1	2
<i>Ampharete</i> sp. A	Ann	Poly	1	0.01	99.18	1	2
Amphithoidae (LPIL)	Art	Mala	1	0.01	99.19	1	2
<i>Ancistrostylis</i> (LPIL)	Ann	Poly	1	0.01	99.20	1	2
<i>Antalis</i> (LPIL)	Mol	Scap	1	0.01	99.20	1	2
<i>Aonides mayaguezensis</i>	Ann	Poly	1	0.01	99.21	1	2
<i>Arene venustula</i>	Mol	Gast	1	0.01	99.21	1	2
<i>Aspidosiphon muelleri</i>	Sip	-	1	0.01	99.22	1	2
<i>Asteropella pax</i>	Art	Ostr	1	0.01	99.22	1	2

Table 4 continued:

Taxa	Phylum	Class	No. of Individuals	% Total	Cumulative %	Station Occurrence	% Station Occurrence
<i>Atrina</i> (LPIL)	Mol	Biva	1	0.01	99.23	1	2
<i>Atys</i> (LPIL)	Mol	Gast	1	0.01	99.24	1	2
<i>Balanoglossus</i> (LPIL)	Hem	Ente	1	0.01	99.24	1	2
<i>Basterotia quadrata</i>	Mol	Biva	1	0.01	99.25	1	2
<i>Batea</i> (LPIL)	Art	Mala	1	0.01	99.25	1	2
Bodotriidae (LPIL)	Art	Mala	1	0.01	99.26	1	2
<i>Bunakenia</i> (LPIL)	Art	Mala	1	0.01	99.27	1	2
<i>Byblis</i> (LPIL)	Art	Mala	1	0.01	99.27	1	2
<i>Cadulus</i> (LPIL)	Mol	Scap	1	0.01	99.28	1	2
<i>Cadulus quadridentatus</i>	Mol	Scap	1	0.01	99.28	1	2
Caecidae (LPIL)	Mol	Gast	1	0.01	99.29	1	2
<i>Calappa sulcata</i>	Art	Mala	1	0.01	99.29	1	2
<i>Cancellaria reticulata</i>	Mol	Gast	1	0.01	99.30	1	2
<i>Cardiomya costellata</i>	Mol	Biva	1	0.01	99.31	1	2
<i>Chaetozone</i> sp. B	Ann	Poly	1	0.01	99.31	1	2
<i>Chaetozone</i> sp. J	Ann	Poly	1	0.01	99.32	1	2
Chamidae (LPIL)	Mol	Biva	1	0.01	99.32	1	2
<i>Cirratulus</i> sp. D	Ann	Poly	1	0.01	99.33	1	2
<i>Cumacea</i> (LPIL)	Art	Mala	1	0.01	99.33	1	2
<i>Cuspidaria granulata</i>	Mol	Biva	1	0.01	99.34	1	2
Cuspidariidae (LPIL)	Mol	Biva	1	0.01	99.35	1	2
<i>Cyclaspis</i> sp. N	Art	Mala	1	0.01	99.35	1	2
<i>Cymatoica orientalis</i>	Mol	Biva	1	0.01	99.36	1	2
<i>Daphnella morra</i>	Mol	Gast	1	0.01	99.36	1	2
<i>Deutella</i> (LPIL)	Art	Mala	1	0.01	99.37	1	2
Diastylidae (LPIL)	Art	Mala	1	0.01	99.38	1	2
<i>Dorvillea clavata</i>	Ann	Poly	1	0.01	99.38	1	2
<i>Dromidia antillensis</i>	Art	Mala	1	0.01	99.39	1	2
<i>Dulichella</i> (LPIL)	Art	Mala	1	0.01	99.39	1	2
<i>Echiura</i> (LPIL)	Echi	-	1	0.01	99.40	1	2
<i>Edotia triloba</i>	Art	Mala	1	0.01	99.40	1	2
Epitoniidae (LPIL)	Mol	Gast	1	0.01	99.41	1	2
<i>Euarche tubifex</i>	Ann	Poly	1	0.01	99.42	1	2
Eulimidae (LPIL)	Mol	Gast	1	0.01	99.42	1	2
<i>Eurysyllis tuberculata</i>	Ann	Poly	1	0.01	99.43	1	2
<i>Eusarsiella childi</i>	Art	Ostr	1	0.01	99.43	1	2
<i>Eusarsiella gigacantha</i>	Art	Ostr	1	0.01	99.44	1	2
<i>Eusarsiella</i> sp. E	Art	Ostr	1	0.01	99.44	1	2
<i>Exogone atlantica</i>	Ann	Poly	1	0.01	99.45	1	2
<i>Exogone verugera</i>	Ann	Poly	1	0.01	99.46	1	2
Fasciolariidae (LPIL)	Mol	Gast	1	0.01	99.46	1	2
<i>Fustiaria liodon</i>	Mol	Scap	1	0.01	99.47	1	2
<i>Galathea</i> (LPIL)	Art	Mala	1	0.01	99.47	1	2
<i>Gastrochaena hians</i>	Mol	Biva	1	0.01	99.48	1	2
<i>Glycera sphyrabrancha</i>	Ann	Poly	1	0.01	99.49	1	2
<i>Glycinde solitaria</i>	Ann	Poly	1	0.01	99.49	1	2
<i>Glycymeris pectinata</i>	Mol	Biva	1	0.01	99.50	1	2
Gnathia (LPIL)	Art	Mala	1	0.01	99.50	1	2
<i>Goniada teres</i>	Ann	Poly	1	0.01	99.51	1	2
<i>Harbansus</i> (LPIL)	Art	Ostr	1	0.01	99.51	1	2
<i>Hemipodus roseus</i>	Ann	Poly	1	0.01	99.52	1	2
<i>Heterophoxus</i> sp. B	Art	Mala	1	0.01	99.53	1	2
<i>Hydroides protulicola</i>	Ann	Poly	1	0.01	99.53	1	2
Hyssuridae (LPIL)	Art	Mala	1	0.01	99.54	1	2
Idoteidae (LPIL)	Art	Mala	1	0.01	99.54	1	2
<i>Idunella</i> (LPIL)	Art	Mala	1	0.01	99.55	1	2
<i>Kupellonura</i> sp. A	Art	Mala	1	0.01	99.55	1	2
<i>Kurtziella limonitella</i>	Mol	Gast	1	0.01	99.56	1	2

Table 4 continued:

Taxa	Phylum	Class	No. of Individuals	% Total	Cumulative %	Station Occurrence	% Station Occurrence
<i>Labrostratus luteus</i>	Ann	Poly	1	0.01	99.57	1	2
<i>Leitoscoloplos robustus</i>	Ann	Poly	1	0.01	99.57	1	2
Leptochelidae (LPIL)	Art	Mala	1	0.01	99.58	1	2
<i>Leptosynapta</i> (LPIL)	Ech	Holo	1	0.01	99.58	1	2
<i>Leucothoe</i> (LPIL)	Art	Mala	1	0.01	99.59	1	2
<i>Lima</i> (LPIL)	Mol	Biva	1	0.01	99.60	1	2
<i>Listriella</i> sp. G	Art	Mala	1	0.01	99.60	1	2
<i>Lucina pensylvanica</i>	Mol	Biva	1	0.01	99.61	1	2
<i>Maldane</i> sp. A	Ann	Poly	1	0.01	99.61	1	2
<i>Marphysa mortenseni</i>	Ann	Poly	1	0.01	99.62	1	2
<i>Megalomma pigmentum</i>	Ann	Poly	1	0.01	99.62	1	2
<i>Melinna cristata</i>	Ann	Poly	1	0.01	99.63	1	2
<i>Mesanthura fasciata</i>	Art	Mala	1	0.01	99.64	1	2
<i>Mesanthura pulchra</i>	Art	Mala	1	0.01	99.64	1	2
<i>Mesanthura reticulata</i>	Art	Mala	1	0.01	99.65	1	2
Montacutidae (LPIL)	Mol	Biva	1	0.01	99.65	1	2
<i>Mysella planulata</i>	Mol	Biva	1	0.01	99.66	1	2
Mysidacea (LPIL)	Art	Mala	1	0.01	99.66	1	2
<i>Naineris</i> sp. B	Ann	Poly	1	0.01	99.67	1	2
Nannastacidae (LPIL)	Art	Mala	1	0.01	99.68	1	2
Nassariidae (LPIL)	Mol	Gast	1	0.01	99.68	1	2
<i>Nassarius albus</i>	Mol	Gast	1	0.01	99.69	1	2
<i>Nassarius vibex</i>	Mol	Gast	1	0.01	99.69	1	2
<i>Nebalia bipes</i>	Art	Mala	1	0.01	99.70	1	2
<i>Nemocardium peramabile</i>	Mol	Biva	1	0.01	99.70	1	2
<i>Nemocardium tinctum</i>	Mol	Biva	1	0.01	99.71	1	2
<i>Nephtys simoni</i>	Ann	Poly	1	0.01	99.72	1	2
<i>Nuculana</i> (LPIL)	Mol	Biva	1	0.01	99.72	1	2
<i>Odontosyllis</i> (LPIL)	Ann	Poly	1	0.01	99.73	1	2
<i>Oliva reticularis</i>	Mol	Gast	1	0.01	99.73	1	2
<i>Onuphis eremita oculata</i>	Ann	Poly	1	0.01	99.74	1	2
<i>Ophiostigma isocanthum</i>	Ech	Ophi	1	0.01	99.75	1	2
<i>Opisthodonta</i> sp. A	Ann	Poly	1	0.01	99.75	1	2
Palicidae (LPIL)	Art	Mala	1	0.01	99.76	1	2
Pandoridae (LPIL)	Mol	Biva	1	0.01	99.76	1	2
<i>Parapseudes</i> (LPIL)	Art	Mala	1	0.01	99.77	1	2
<i>Pariphinotus seclusus</i>	Art	Mala	1	0.01	99.77	1	2
<i>Parthenope</i> (LPIL)	Art	Mala	1	0.01	99.78	1	2
<i>Parthenope fraterculus</i>	Art	Mala	1	0.01	99.79	1	2
Parthenopidae (LPIL)	Art	Mala	1	0.01	99.79	1	2
<i>Pectinaria</i> (LPIL)	Ann	Poly	1	0.01	99.80	1	2
<i>Periploma margaritaceum</i>	Mol	Biva	1	0.01	99.80	1	2
<i>Philina sagra</i>	Mol	Gast	1	0.01	99.81	1	2
Pholoidae (LPIL)	Ann	Poly	1	0.01	99.81	1	2
Photidae (LPIL)	Art	Mala	1	0.01	99.82	1	2
<i>Platynereis dumerilli</i>	Ann	Poly	1	0.01	99.83	1	2
<i>Pleurocope floridensis</i>	Art	Mala	1	0.01	99.83	1	2
<i>Pleuromeris tridentata</i>	Mol	Biva	1	0.01	99.84	1	2
<i>Polinices lacteus</i>	Mol	Gast	1	0.01	99.84	1	2
<i>Polydora cornuta</i>	Ann	Poly	1	0.01	99.85	1	2
<i>Poromya rostrata</i>	Mol	Biva	1	0.01	99.86	1	2
<i>Portunus spinicarpus</i>	Art	Mala	1	0.01	99.86	1	2
<i>Psammolyce ctenidophora</i>	Ann	Poly	1	0.01	99.87	1	2
Pyramidellidae (LPIL)	Mol	Gast	1	0.01	99.87	1	2
<i>Pyrgocythara</i> (LPIL)	Mol	Gast	1	0.01	99.88	1	2
Raninidae (LPIL)	Art	Mala	1	0.01	99.88	1	2
<i>Raninoides loevis</i>	Art	Mala	1	0.01	99.89	1	2
<i>Rimapenaeus constrictus</i>	Art	Mala	1	0.01	99.90	1	2

Table 4 continued:

Taxa	Phylum	Class	No. of Individuals	% Total	Cumulative %	Station Occurrence	% Station Occurrence
<i>Rimula frenulata</i>	Mol	Gast	1	0.01	99.90	1	2
<i>Rissoina cancellata</i>	Mol	Gast	1	0.01	99.91	1	2
<i>Saltipedis</i> (LPIL)	Art	Mala	1	0.01	99.91	1	2
Sarsiellidae (LPIL)	Art	Ostr	1	0.01	99.92	1	2
<i>Scoletoma ernesti</i>	Ann	Poly	1	0.01	99.92	1	2
<i>Scyllarus depressus</i>	Art	Mala	1	0.01	99.93	1	2
<i>Semele proficua</i>	Mol	Biva	1	0.01	99.94	1	2
<i>Skogsbergia lernerii</i>	Art	Ostr	1	0.01	99.94	1	2
<i>Solenocera</i> (LPIL)	Art	Mala	1	0.01	99.95	1	2
Sphaerodoridae (LPIL)	Ann	Poly	1	0.01	99.95	1	2
<i>Sphaerosyllis taylori</i>	Ann	Poly	1	0.01	99.96	1	2
Stomatopoda (LPIL)	Art	Mala	1	0.01	99.97	1	2
<i>Streptosyllis pettiboneae</i>	Ann	Poly	1	0.01	99.97	1	2
<i>Strombus alatus</i>	Mol	Gast	1	0.01	99.98	1	2
<i>Synasterope</i> (LPIL)	Art	Ostr	1	0.01	99.98	1	2
Trichobranhidae (LPIL)	Ann	Poly	1	0.01	99.99	1	2
<i>Turbonilla interrupta</i>	Mol	Gast	1	0.01	99.99	1	2
<i>Volvarina avenacea</i>	Mol	Gast	1	0.01	100.00	1	2

Taxa Key

Ann=Annelida	Echi=Echiura
Olig=Oligochaeta	Ect=Ectoprocta
Poly=Polychaeta	Gymn=Gymnolaemata
Art=Arthropoda	Hem=Hemichordata
Arac=Arachnida	Ente=Enteropneusta
Bran=Branchiopoda	Mol=Mollusca
Inse=Insecta	Apla=Aplacophora
Mala=Malacostraca	Biva=Bivalvia
Ostr=Ostracoda	Gast=Gastropoda
Bra=Brachiopoda	Polyp=Polyplacophora
Cho=Chordata	Scap=Scaphopoda
Asci=Asciacea	Pho=Phoronida
Lept=Leptocardia	Pla=Platyhelminthes
Cni=Cnidaria	Turb=Turbellaria
Anth=Anthozoa	Por=Porifera
Ech=Echinodermata	Rhy=Rhynchocoela
Aste=Asteroidea	Anop=Anopla
Echin=Echinoidea	Sip=Sipuncula
Holo=Holothuroidea	
Ophi=Ophiuroidea	

Table 6. Summary of the benthic macroinfaunal data for the West Indian Shelf stations, 2007.

Station	Rep	No. of	No. of	Density	Mean	Mean	Total No.	Total No.	H'	J'
		Taxa	indvs	(no/m ²)						
1	1	49	185	4625	55.5	5537.5	86	443	3.68	0.83
	2	62	258	6450						
2	1	62	116	2900	66.5	3900.0	107	312	3.96	0.85
	2	71	196	4900						
3	1	28	53	1325	34.5	1625.0	52	130	3.68	0.93
	2	41	77	1925						
4	1	65	315	7875	54.0	5725.0	90	458	3.41	0.76
	2	43	143	3575						
5	1	52	118	2950	79.0	7087.5	127	567	4.03	0.83
	2	106	449	11225						
6	1	83	221	5525	74.0	4212.5	107	337	4.27	0.91
	2	65	116	2900						
7	1	64	221	5525	61.5	4712.5	91	377	3.67	0.81
	2	59	156	3900						
8	1	70	238	5950	68.0	6000.0	104	480	3.98	0.86
	2	66	242	6050						
9	1	59	171	4275	59.5	4337.5	86	347	3.89	0.87
	2	60	176	4400						
10	1	67	203	5075	52.5	3387.5	82	271	3.81	0.86
	2	38	68	1700						
11	1	21	57	1425	22.5	1575.0	35	126	2.95	0.83
	2	25	70	1750						
12	1	56	198	4950	56.5	4837.5	86	387	3.75	0.84
	2	57	189	4725						
13	1	68	167	4175	49.0	2562.5	81	205	4.09	0.93
	2	30	38	950						
14	1	60	227	5675	51.0	3975.0	79	318	3.65	0.84
	2	42	91	2275						
15	1	40	82	2050	53.0	3975.0	84	318	3.92	0.88
	2	66	236	5900						
16	1	74	469	11725	75.0	9425.0	107	754	3.56	0.76
	2	76	285	7125						
17	1	62	210	5250	48.0	3687.5	74	295	3.59	0.83
	2	34	85	2125						
18	1	39	58	1450	55.0	2562.5	92	205	4.05	0.89
	2	71	147	3675						
19	1	21	66	1650	18.0	1250.0	27	100	2.49	0.76
	2	15	34	850						
20	1	21	37	925	21.5	1350.0	35	108	2.70	0.76
	2	22	71	1775						
21	1	59	405	10125	58.5	8725.0	81	698	3.02	0.69
	2	58	293	7325						
22	1	85	174	4350	83.0	4537.5	122	363	4.34	0.90
	2	81	189	4725						
23	1	126	505	12625	111.5	11087.5	157	887	4.23	0.84
	2	97	382	9550						
24	1	44	65	1625	39.5	1412.5	65	113	3.90	0.93
	2	35	48	1200						
25	1	98	335	8375	86.5	6425.0	139	514	4.26	0.86
	2	75	179	4475						

Table 6 continued:

Station	Rep	No. of Taxa	No. of indivs	Density (no/m²)	Mean No. Taxa	Mean Density	Total No. Taxa	Total No. Individuals	H' Diversity	J' Evenness
26	1	56	122	3050	53.0	3900.0	84	312	3.70	0.83
	2	50	190	4750						
27	1	68	263	6575	76.0	8162.5	107	653	3.73	0.80
	2	84	390	9750						
28	1	39	75	1875	34.0	1725.0	56	138	3.54	0.88
	2	29	63	1575						
29	1	60	132	3300	58.0	3137.5	95	251	4.13	0.91
	2	56	119	2975						
30	1	22	36	900	34.5	1975.0	58	158	3.67	0.90
	2	47	122	3050						
31	1	14	33	825	18.0	1425.0	29	114	2.94	0.87
	2	22	81	2025						
32	1	27	59	1475	40.0	2462.5	62	197	3.67	0.89
	2	53	138	3450						
33	1	51	189	4725	54.0	8212.5	87	657	3.18	0.71
	2	57	468	11700						
34	1	75	218	5450	73.5	5325.0	105	426	3.85	0.83
	2	72	208	5200						
35	1	63	236	5900	60.5	4912.5	97	393	3.80	0.83
	2	58	157	3925						
36	1	77	219	5475	61.5	3650.0	101	292	4.00	0.87
	2	46	73	1825						
37	1	40	319	7975	47.5	9575.0	74	766	2.69	0.63
	2	55	447	11175						
38	1	67	161	4025	71.0	4250.0	109	340	4.12	0.88
	2	75	179	4475						
39	1	21	32	800	18.5	1075.0	27	86	2.75	0.83
	2	16	54	1350						
40	1	64	360	9000	54.0	7225.0	89	578	3.35	0.75
	2	44	218	5450						
41	1	95	364	9100	94.0	8937.5	144	715	3.87	0.78
	2	93	351	8775						
42	1	63	156	3900	69.0	4137.5	106	331	4.22	0.90
	2	75	175	4375						
43	1	31	46	1150	37.0	1687.5	60	135	3.72	0.91
	2	43	89	2225						
44	1	50	92	2300	49.0	3025.0	76	242	3.82	0.88
	2	48	150	3750						
45	1	75	143	3575	63.5	3250.0	102	260	4.20	0.91
	2	52	117	2925						
46	1	27	42	1050	29.0	1212.5	47	97	3.58	0.93
	2	31	55	1375						
47	1	29	39	975	21.0	712.5	37	57	3.43	0.95
	2	13	18	450						
48	1	44	106	2650	43.0	2687.5	71	215	3.79	0.89
	2	42	109	2725						
49	1	78	267	6675	58.0	4475.0	92	358	3.83	0.85
	2	38	91	2275						
50	1	80	200	5000	74.0	5000.0	114	400	4.02	0.85
	2	68	200	5000						

Figure 1. Sediment texture data for the West Indian Shelf stations, 2007.

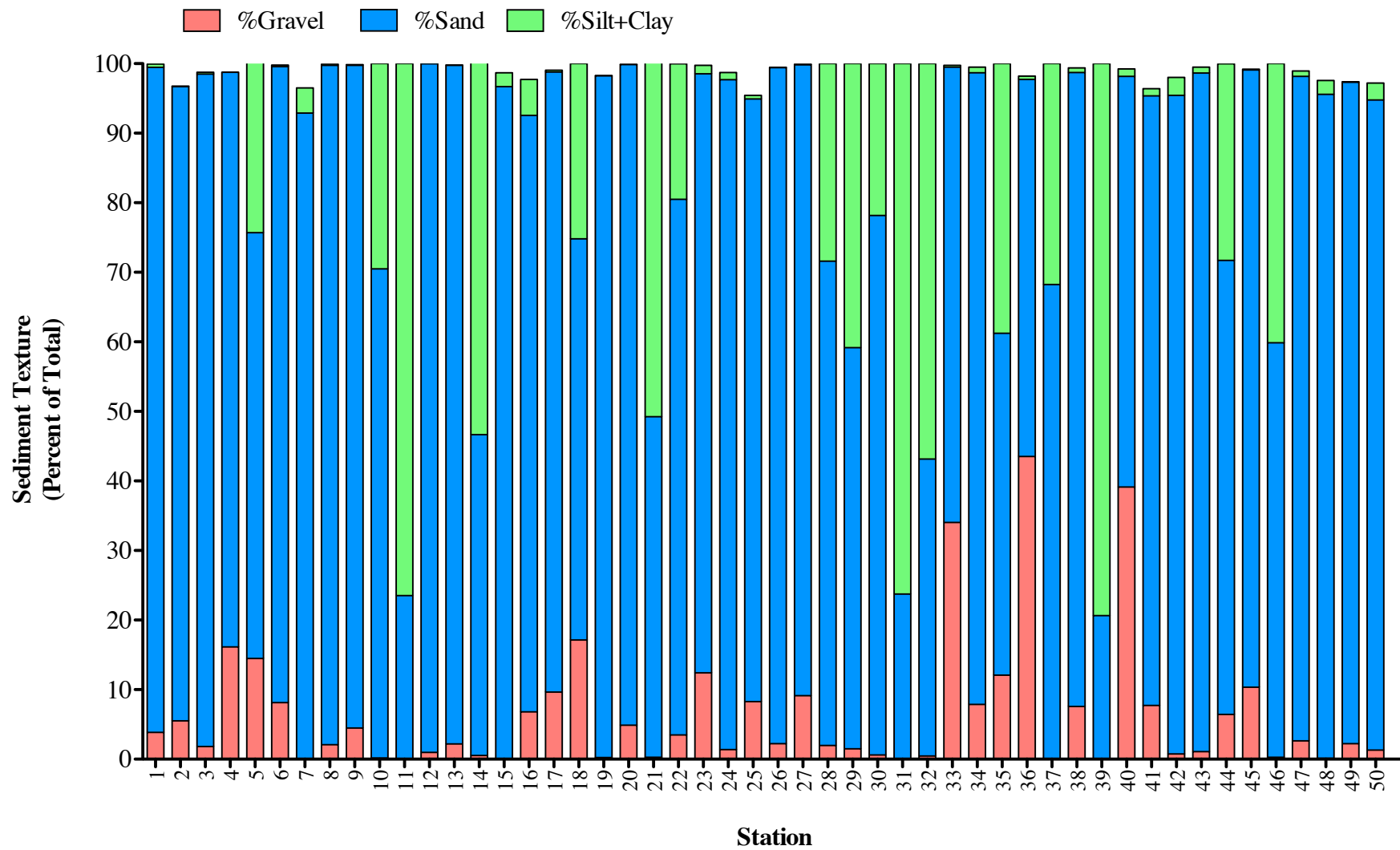


Figure 2. Sediment percent total organic carbon (%TOC) data for the West Indian Shelf stations, 2007.

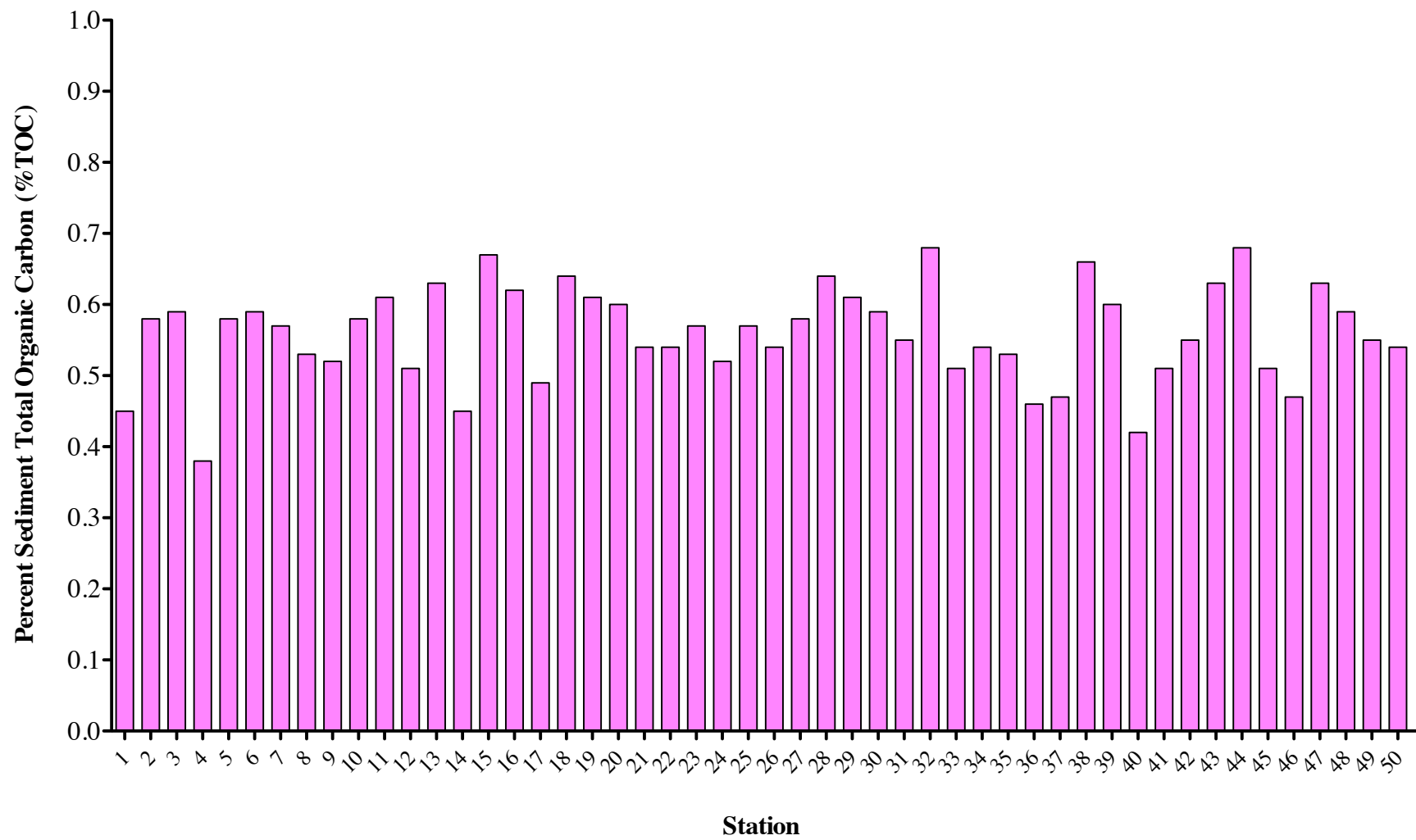


Figure 3. Assemblage composition for the West Indian Shelf stations, 2007.

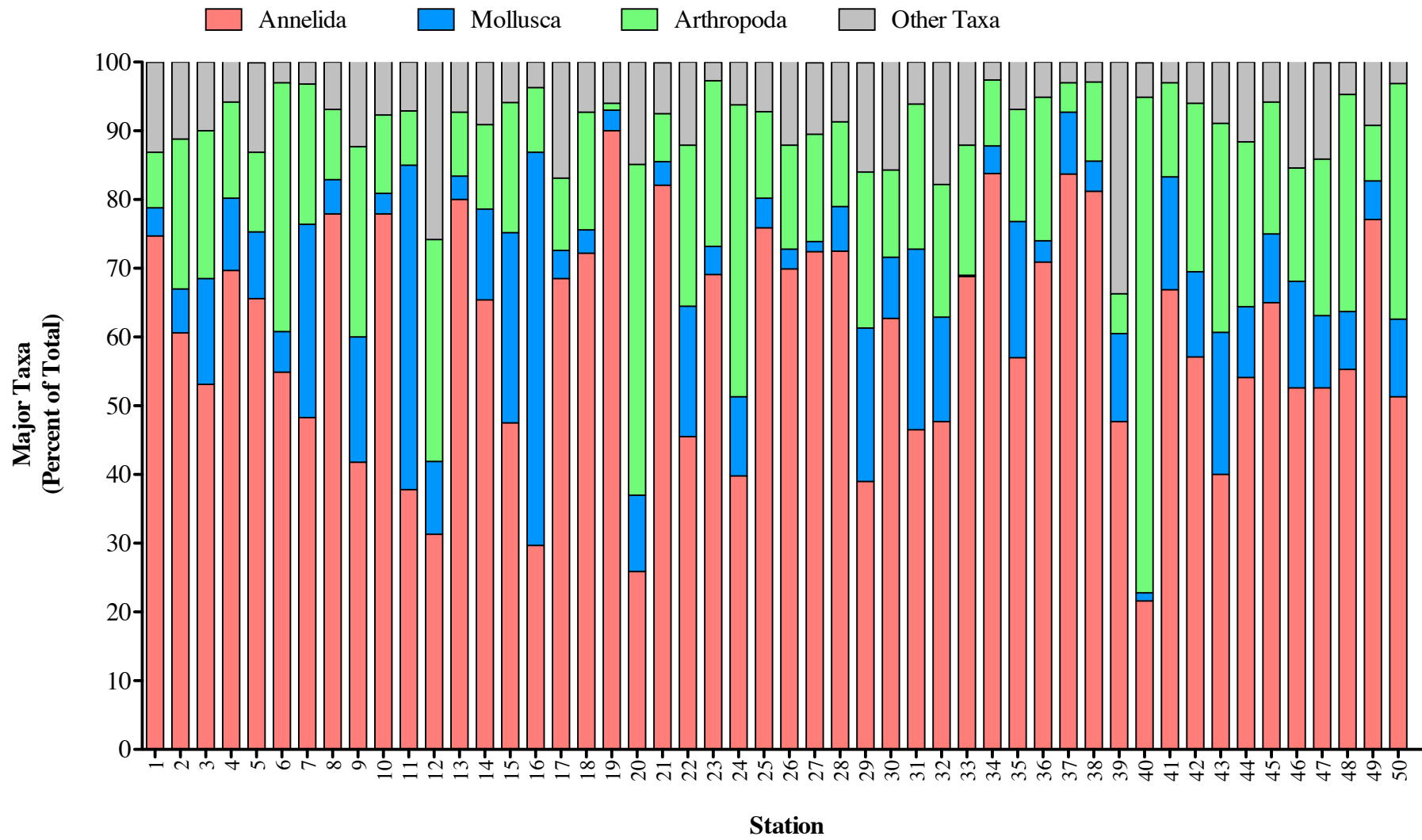


Figure 4. Taxa richness data for the West Indian Shelf stations, 2007.

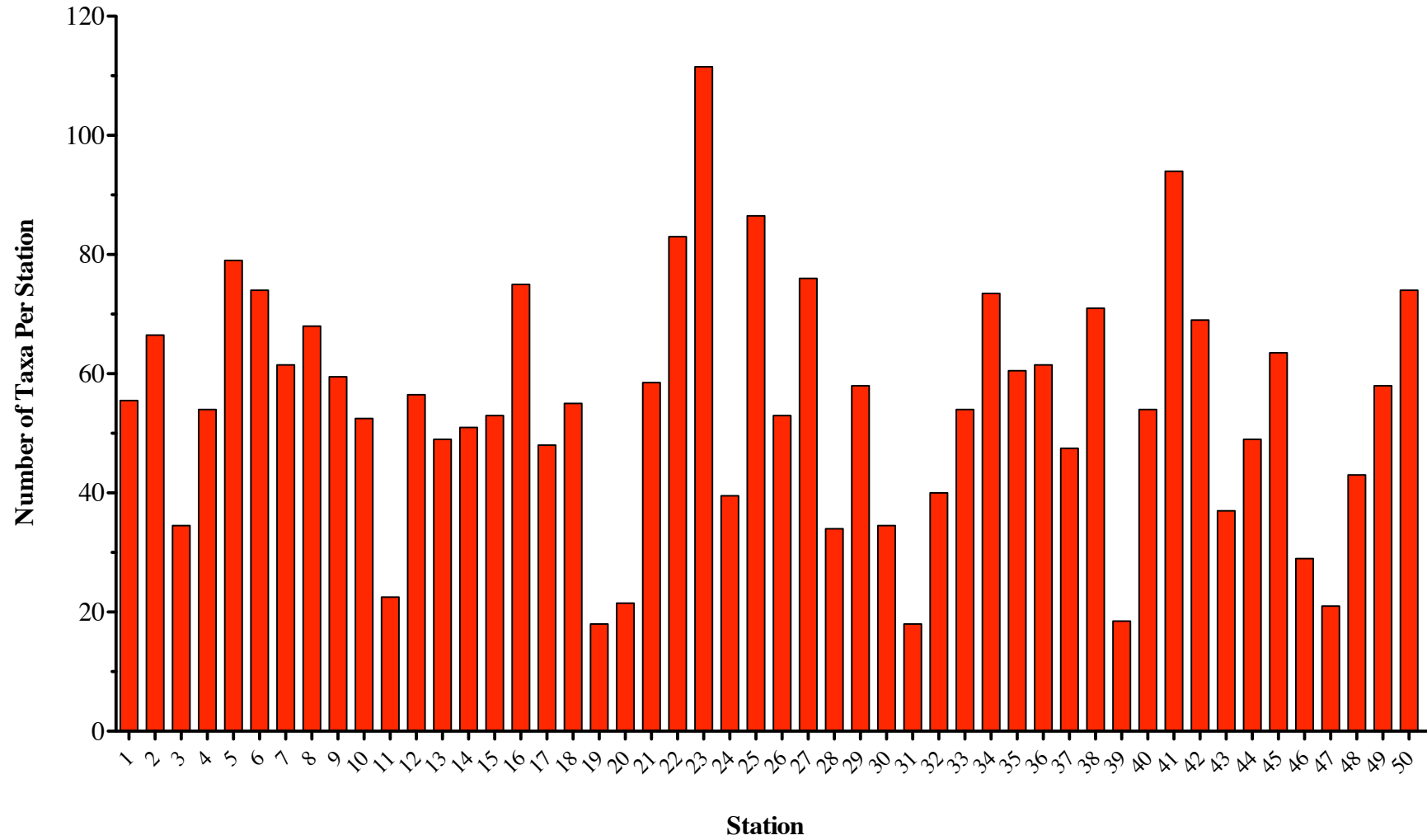


Figure 5. Taxa density data for the West Indian Shelf stations, 2007.

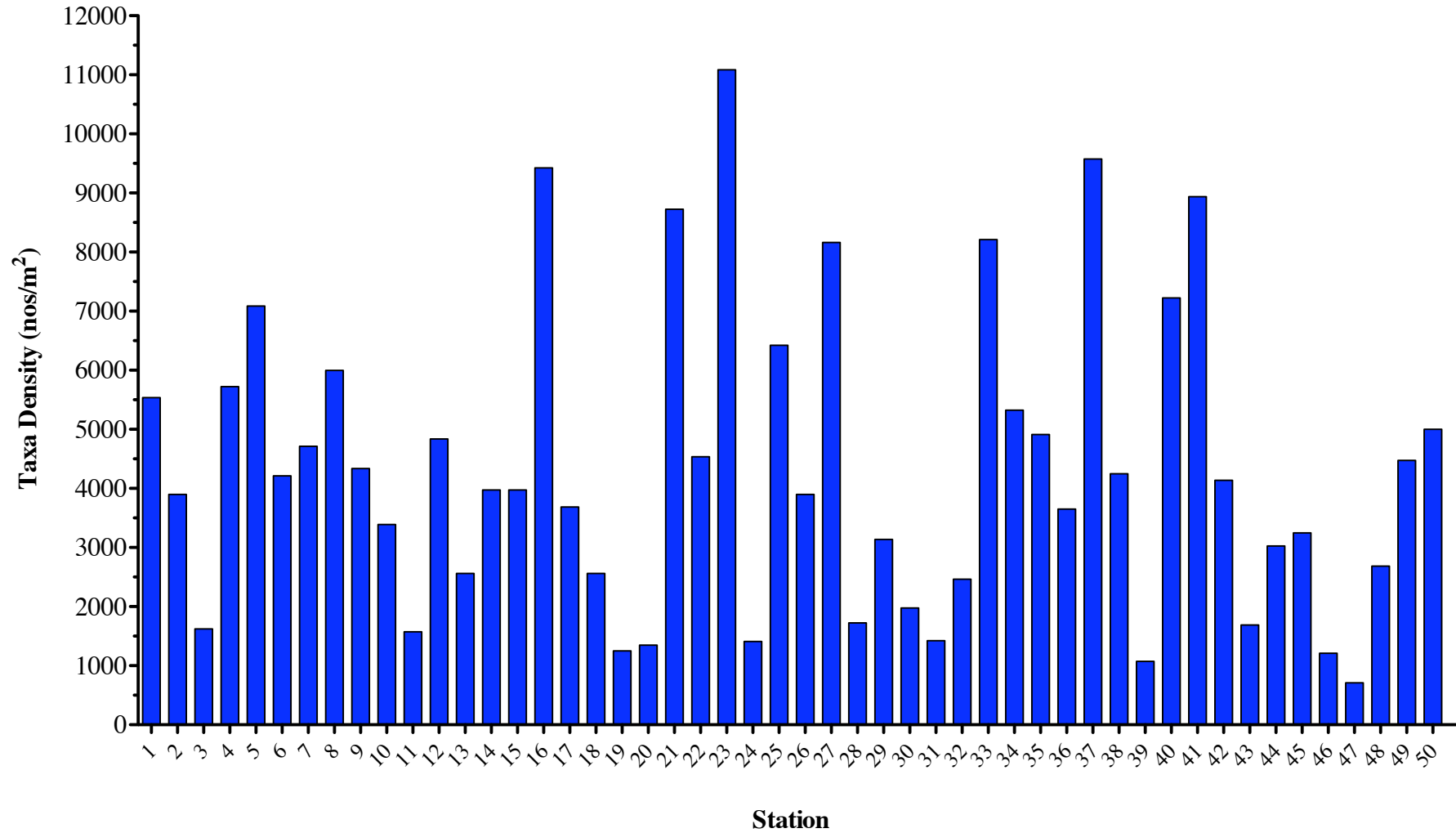


Figure 6. Taxa diversity (H') data for the West Indian Shelf stations, 2007.

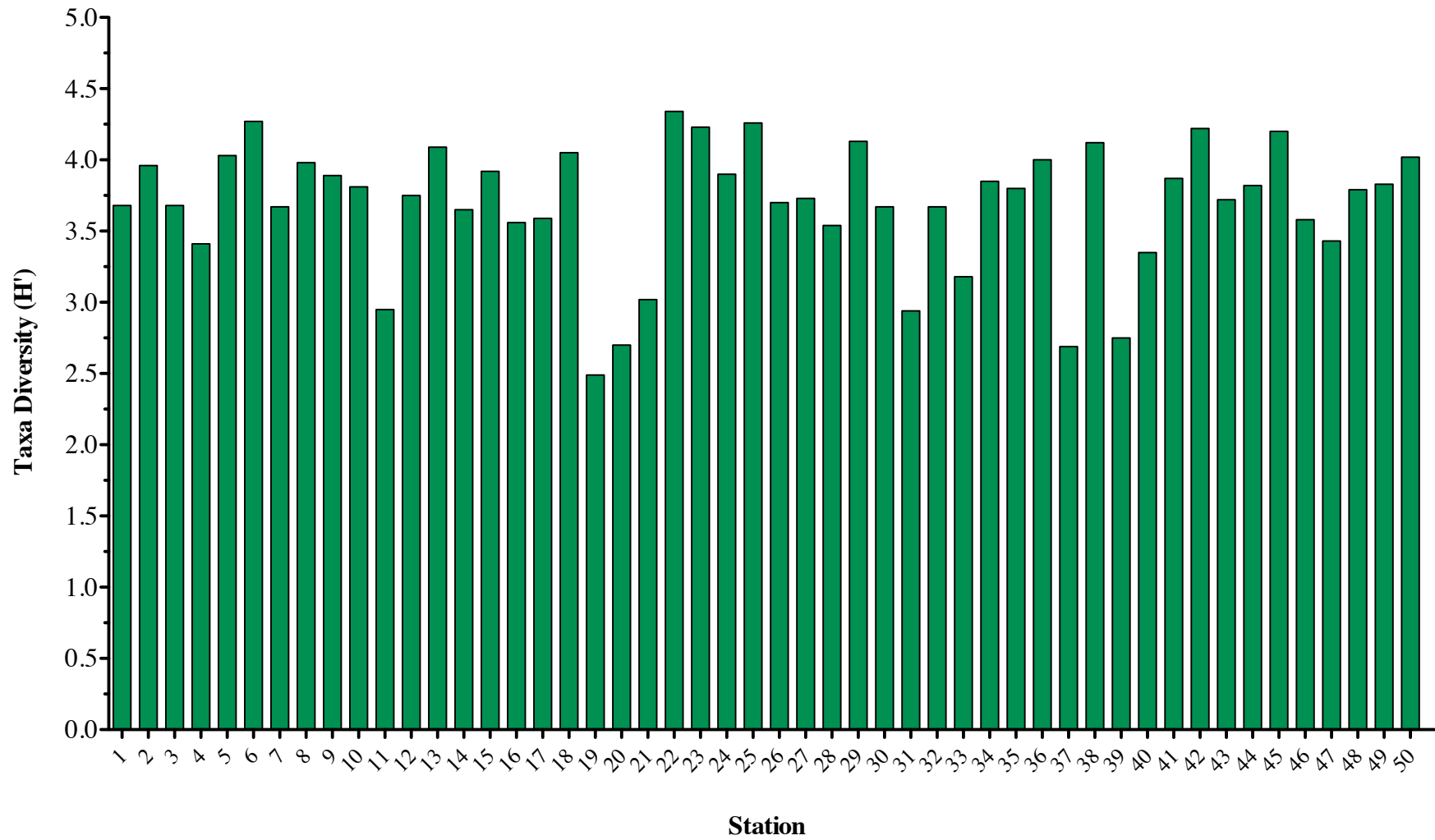
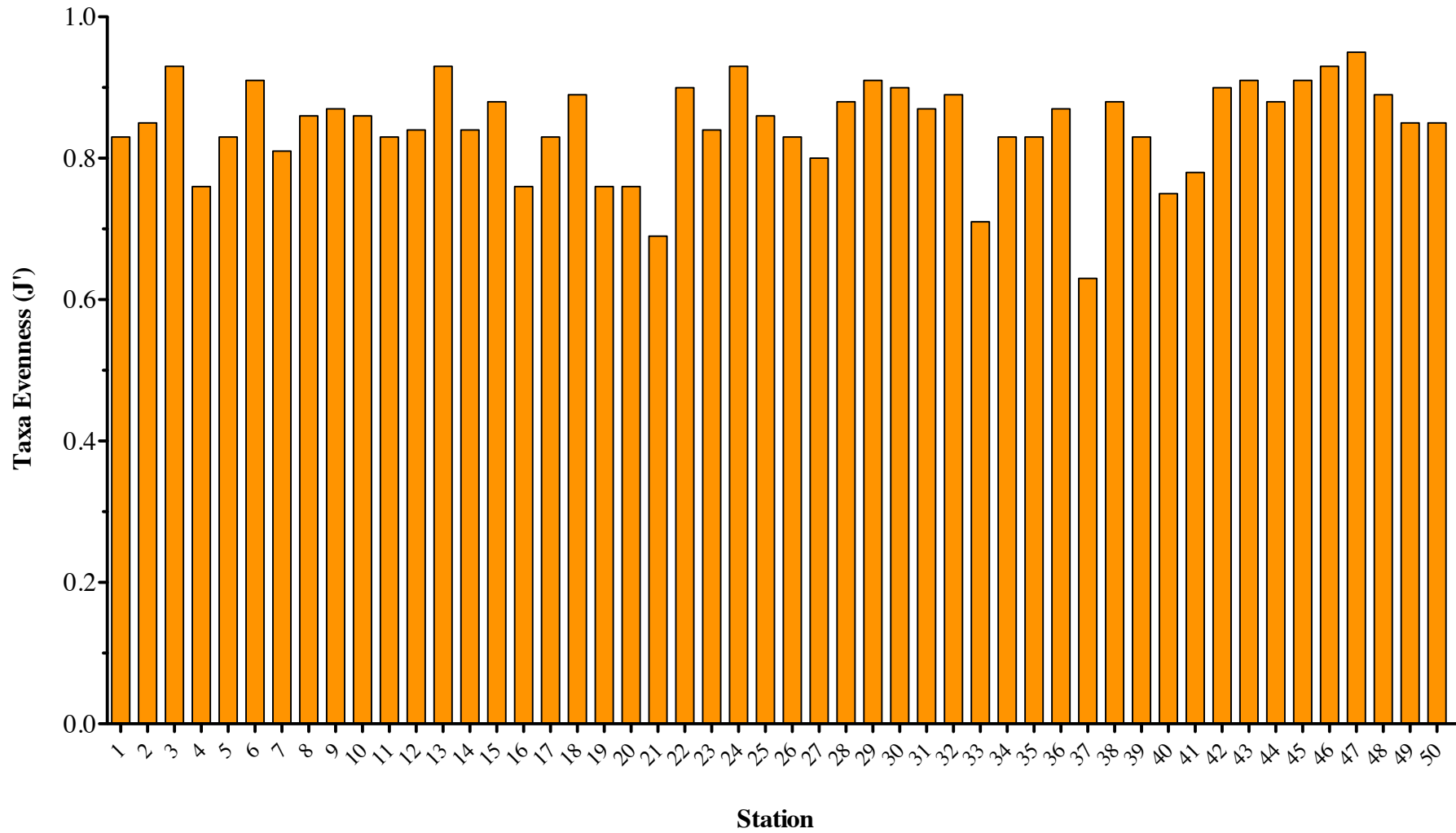


Figure 7. Taxa evenness (J') data for the West Indian Shelf stations, 2007.



APPENDICES

QUALITY ASSURANCE STATEMENT

Client/Project [NOAA](#)

Work Assignment Title [West Indian Shelf](#)

Work Assignment Number

Task Number 001

Description of Data Set or Deliverable: [100 Benthic macroinvertebrate samples collected in 2007; 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 the 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 - West Indian Shelf

Task Number: # 1

Sorting Results:	<u>Sample #</u>	<u>% Accuracy</u>
	WI07-002-1	100%
	WI07-004-2	100%
	WI07-007-1	100%
	WI07-011-2	100%
	WI07-037-1	100%
	WI07-042-1	100%
	WI07-047-1	100%
	WI07-048-1	100%
	WI07-047-2	100%
	WI07-048-2	100%

Taxonomy Results:	<u>Sample #</u>	<u>Taxa</u>	<u>% Accuracy</u>
	WI07-044-1	Crust./Moll.	98%
	WI07-039-2	Crust./Moll.	100%
	WI07-047-2	Crust./Moll.	100%
	WI07-010-2	Crust./Moll.	100%
	WI07-019-1	Crust./Moll.	100%
	WI07-030-2	Crust./Moll.	97%
	WI07-011-1	Crust./Moll.	97%
	WI07-021-1	Crust./Moll.	98%
	WI07-034-1	Crust./Moll.	97%
	WI07-037-2	Crust./Moll.	96%
	WI07-009-1	Annelida	100%
	WI07-003-2	Annelida	97%
	WI07-012-2	Annelida	98%
	WI07-045-1	Annelida	99%
	WI07-036-2	Annelida	96%
	WI07-031-2	Annelida	100%
	WI07-026-2	Annelida	99%
	WI07-016-1	Annelida	100%
	WI07-039-2	Annelida	100%
	WI07-028-2	Annelida	96%

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

Signature of QA Officer or Reviewer

Date