

**OVERVIEW
OF
BOCA CIEGA BAY BENTHOS:
1997**

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AUGUST 1998

INTRODUCTION

1997 was the third year of benthic monitoring of Boca Ciega Bay. The 1995 and 1996 surveys (Grabe & Karlen 1996; Grabe 1997) showed that Boca Ciega Bay supported a diverse and spatially heterogeneous benthic community. Few species were widespread; of more than 300 taxa identified in each year, 44% and 49% were present at only a single location and only 2.2% and 2.5% of the taxa occurred at more than 50% of the stations during the two surveys. Polychaete and oligochaete worms were generally the numerical dominants although the tanaid *Leptochelia* was ranked first in the 1996 survey. Field and laboratory methods have been outlined previously in Grabe & Karlen (1996).

STUDY AREA

Figure 1 depicts the locations of all stations sampled during 1995, 1996, and 1997. Figure 2 summarizes, by year, the quartile distribution of near-bottom water temperature, dissolved oxygen, and salinity. 1997 was generally a warmer, more saline sampling period than 1995 and 1996; dissolved oxygen concentrations, which would be expected to be lower with higher temperatures and salinities, were, in fact, somewhat lower in 1997. Sample depths were generally similar between years (Figure 3). Silt-clay data for 1997 are not available at this writing and thus silt-clay data are not discussed.

RESULTS

Abundance: Total benthic abundance ranged from 0 to 18,100 organisms per m², a lower maximum than observed in prior years (Figure 4); median densities were similar for each of the three years. For the three years of study, approximately three-quarters of the stations had densities <10,000 per m² (Figure 5).

Numbers of Taxa: In 1997, the number of taxa at Boca Ciega Bay stations ranged from 0 (97BCB27) to 63 (97BCB60/4). The total number of taxa identified in the 1997 samples (at least 280) was considerably reduced from prior years (324 and 315)—as was the median number of taxa per station (Figure 6). For the entire survey period, the median number of taxa per sample was <40 (Figure 7). Approximately 35% of the taxa occurred at only one station (vs. 49% in 1995 and 44% in 1996). Barely 3% of the taxa occurred at 50% or more of the stations in 1997 (vs. 2.2% in 1995 and 2.5% in 1996).

Diversity: Median Shannon-Wiener diversity was similar during 1997 and 1996 and somewhat higher than 1995 (Figure 8). For the three year period, median diversity was >4 and approximately 15% of Boca Ciega Bay had a diversity index <3 (Figure 9).

Benthic Index: The median Benthic index was generally similar during each of the three years (Figure 10), although in 1997 the low end of the distribution was more pronounced. Almost 75% of Boca Ciega Bay had a Benthic Index score indicative of a "healthy benthic community (based upon baywide comparisons with sediment metals contamination and suboptimal dissolved oxygen concentrations; EPC unpublished data). Benthic Index scores representative of "degraded" benthic habitat were observed at approximately 12.5% of the study sites (Figure 11). Within Boca Ciega Bay, the Benthic Index did not appear to be associated with sample depth (Figure 12), salinity (Figure 13), or dissolved oxygen (Figure 14).

An association between the Benthic Index and the PEL ("predicted effects level") ratio for metals, (a measure of overall sediment contamination by trace metals; PEL ratios <0.1 suggest a low probability that sediments are toxic; PEL ratios >1.0 suggest sediments have a high probability of toxicity), was also not evident (Figure 15). Note, however, that the PEL ratios observed to date in Boca Ciega Bay are quite low (i.e., <1.0), and that data are available for only 1996 and 1997. Benthic Index scores tend to be higher than at sites where PEL ratios are <0.1 (Figure 15). Pesticide data from 1996 and 1997 were uniformly below method detection limits and no samples have been analyzed for polycyclic aromatic hydrocarbons. Factors associated with the areas of Boca Ciega Bay with subnominal Benthic Index scores need to be examined more closely in the future to try to explain why these areas are "degraded"; to this end additional data on organic contaminants is desirable.

Dominant Taxa: Ten taxa occurred at at least 50% of the sites in 1997 (Table 1); for the three year period only 16 taxa occurred in at least 50% of the samples in any given year and only three taxa occurred in at least 50% of the samples for each year. The most abundant taxa in the 1997 samples included a suite of tubificid oligochaetes and the tubiculous amphipod *Monocorophium tuberculatum* (Table 2). Not a single taxon was ranked among the ten numerical dominants in each of the three years; and only five taxa were ranked in the top ten during two of the three years.

CONCLUSIONS

In 1997, as in prior years, the benthic community within Boca Ciega Bay was both diverse and heterogeneous. Taxa which were either frequently occurring or numerically dominant in 1997 were not necessarily the same as in 1995 or 1996. Approximately one-eighth of Boca Ciega Bay's benthic habitat appears to be degraded. However the associations between the Benthic Index and both dissolved oxygen concentrations (three years) and sediment trace metal and organochlorine pesticide concentrations (two years) generally appeared weak. It may be that the degraded areas within Boca Ciega Bay reflect physical disturbances more than chemical contamination, although no data are available for polycyclic aromatic hydrocarbons and metal and pesticide data are not matched with all samples.

LITERATURE CITED

GRABE, S.A. 1997. *Overview of Boca Ciega Bay Benthos: 1996.* Environmental Protection Commission of Hillsborough County. Tampa, FL.

GRABE, S.A. & D.J. KARLEN. 1996. *Technical Report: A Synoptic Survey of the Benthic Macroinvertebrates of the Boca Ciega Bay Estuarine System (Pinellas County, Florida).* October 1995. TBNEP Tech. Publ. 02-96.

Table 1. Percent occurrence of macroinvertebrate taxa which occurred in 50% or more of samples: by survey period. Boca Ciega Bay, 1995-1997.

TAXA	1995-1997	1995	1996	1997
<i>Tellina</i> spp. (B)	68	81	57	67
<i>Podarkeopsis laevifusca</i> (P)	65	57	71	67
<i>Monticellina dorsobranchialis</i> (P)	59	62	67	NR
<i>Parvilucina multilineata</i> (B)	59	62	62	52
<i>Parprionospio pinnata</i> (P)	57	62	NR	52
<i>Mediomastus californiensis</i> (P)	51	NR	71	67
<i>Mysella planulata</i> (B)	51	NR	62	NR
Tubificidae (O)	NR	71	NR	57
<i>Listriella barnardi</i> (A)	NR	52	NR	NR
<i>Axiobella mucosa</i> (P)	NR	NR	62	NR
<i>Prunum apicinum</i> (G)	NR	NR	57	NR
<i>Jaspidella blanesi</i> (G)	NR	NR	NR	67
<i>Tellina versicolor</i> (B)	NR	NR	NR	52
<i>Phascolion crypta</i> (S)	NR	NR	NR	52
<i>Turbellaria</i> sp. A (PL)	NR	57	NR	NR
<i>Prionospio perkinsi</i> (P)	NR	NR	NR	52

NR= occurred in <50% of samples

A= Amphipoda B=Bivalvia G=Gastropoda O=Oligochaeta

P=Polychaeta PL= Platyhelminthes S=Sipuncula

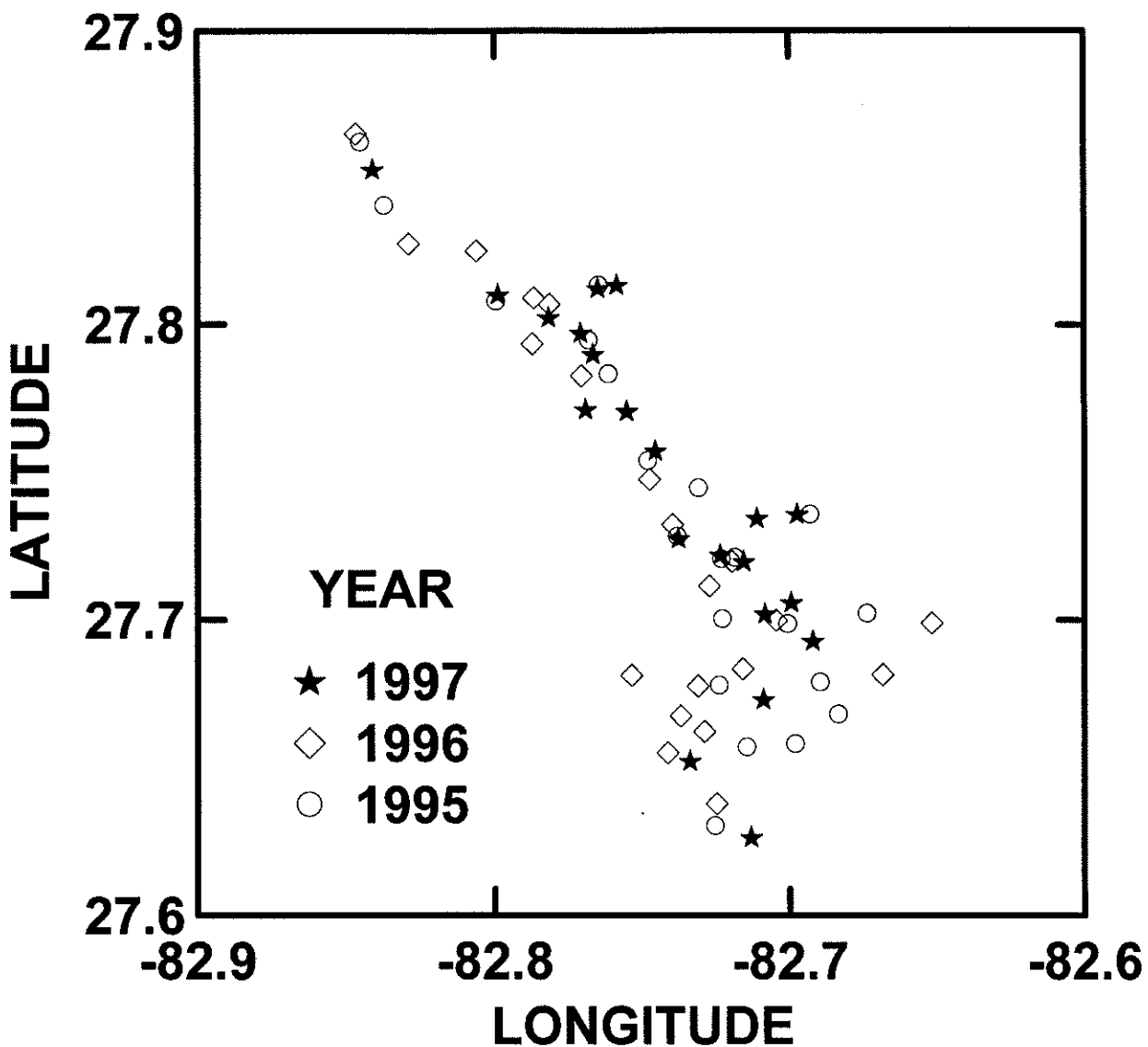
Table 2. Mean density (numbers per m²) of the ten most abundant taxa of benthic macroinvertebrates in Boca Ciega Bay by survey period.

TAXON	1995-1997	1995	1996	1997
<i>Spirorbis spirillum</i> (P)	1078	3233	NR	NR
Tubificidae (O)	384	702	NR	450
<i>Tellina</i> spp. (B)	206	325	NR	165
<i>Monticellina dorsobranchialis</i> (P)	198	303	NR	165
<i>Leptochelia</i> sp. (T)	194	NR	520	NR
<i>Bittium variolum</i> (G)	157	448	NR	NR
<i>Carazziella hobsonae</i> (P)	137	NR	NR	NR
<i>Paraprionospio pinnata</i> (P)	125	NR	171	NR
<i>Axiiothella mucosa</i> (P)	123	NR	159	132
<i>Monocorophium tuberculatum</i> (A)	110	NR	NR	329
<i>Laeonereis culveri</i> (P)	NR	NR	NR	261
<i>Streblospio benedicti</i> (P)	NR	NR	NR	213
<i>Mediomastus californiensis</i> (P)	NR	NR	NR	177
<i>Tellina versicolor</i> (B)	NR	NR	NR	138
<i>Americorophium ellisi</i> (A)	NR	NR	NR	136
<i>Oligochaeta</i> sp. A (O)	NR	NR	271	NR
<i>Synaptidae</i> sp. A (E)	NR	NR	226	NR
<i>Mysella</i> sp. A (B)	NR	NR	187	NR
<i>Cirripedia</i> (C)	NR	NR	186	NR
<i>Cymadusa compta</i> (A)	NR	NR	174	NR
<i>Kinbergonuphis simoni</i> (P)	NR	NR	158	NR
<i>Mysella planulata</i> (B)	NR	131	148	NR
<i>Carazziella hobsonae</i> (P)	NR	196	NR	NR
<i>Mooreonuphis</i> sp. A (P)	NR	188	NR	NR
<i>Melita eongata</i> (A)	NR	125	NR	NR
<i>Polydora cornuta</i> (P)	NR	117	NR	NR

NR= not ranked in top 10 for survey period

A= Amphipoda B=Bivalvia C=Cirripedia E=Echinoderm G=Gastropoda
O=Oligochaeta P=Polychaeta T=Tanaidacea

BOCA CIEGA BAY 1995-1997



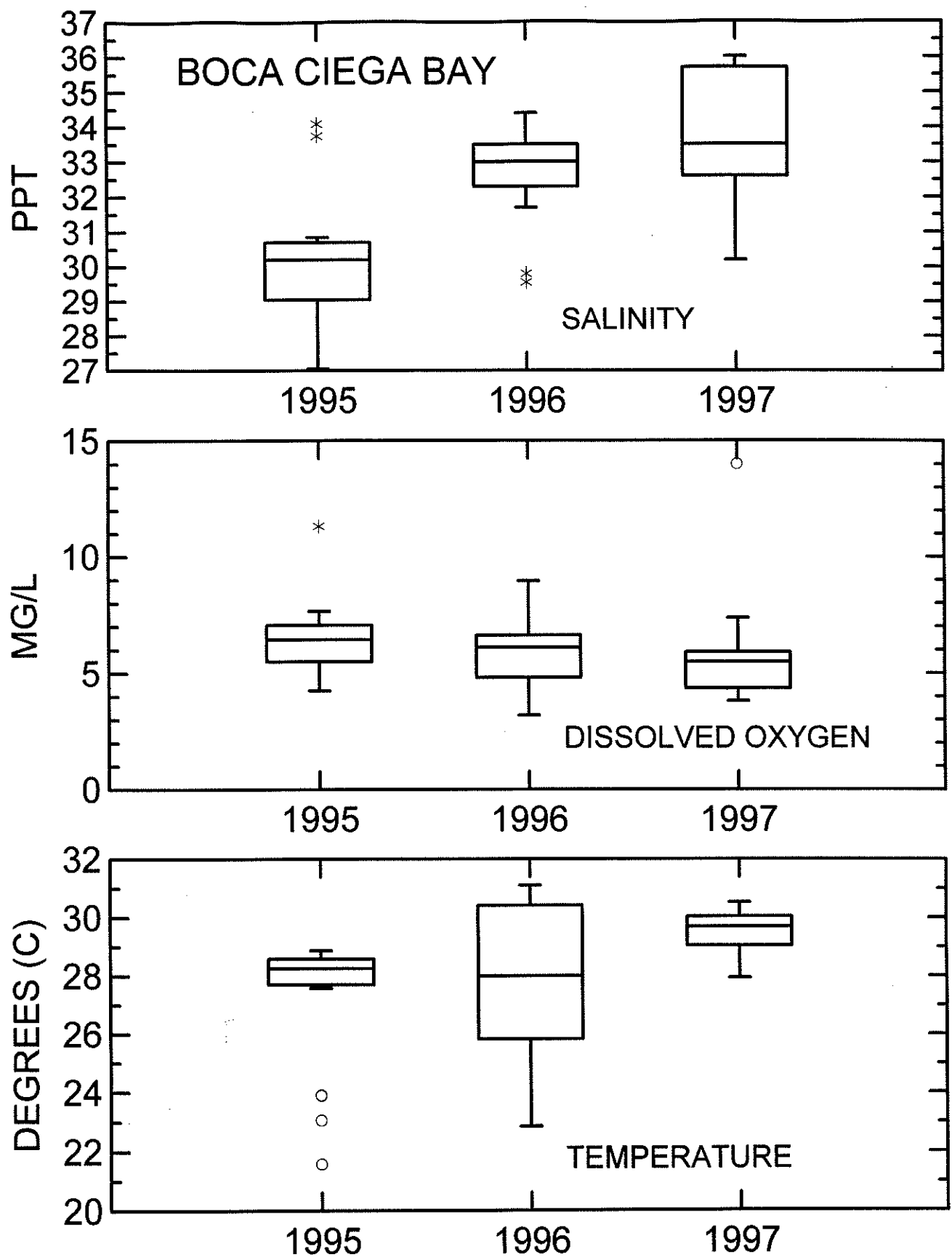


Figure 2. Quartile distribution of salinity, dissolved oxygen, and water temperature in near-bottom waters of Boca Ciega Bay, 1995-1997. Horizontal mid-line represents the median value and hinges represent the 25th and 75th percentiles.

BOCA CIEGA BAY: 1995-1997

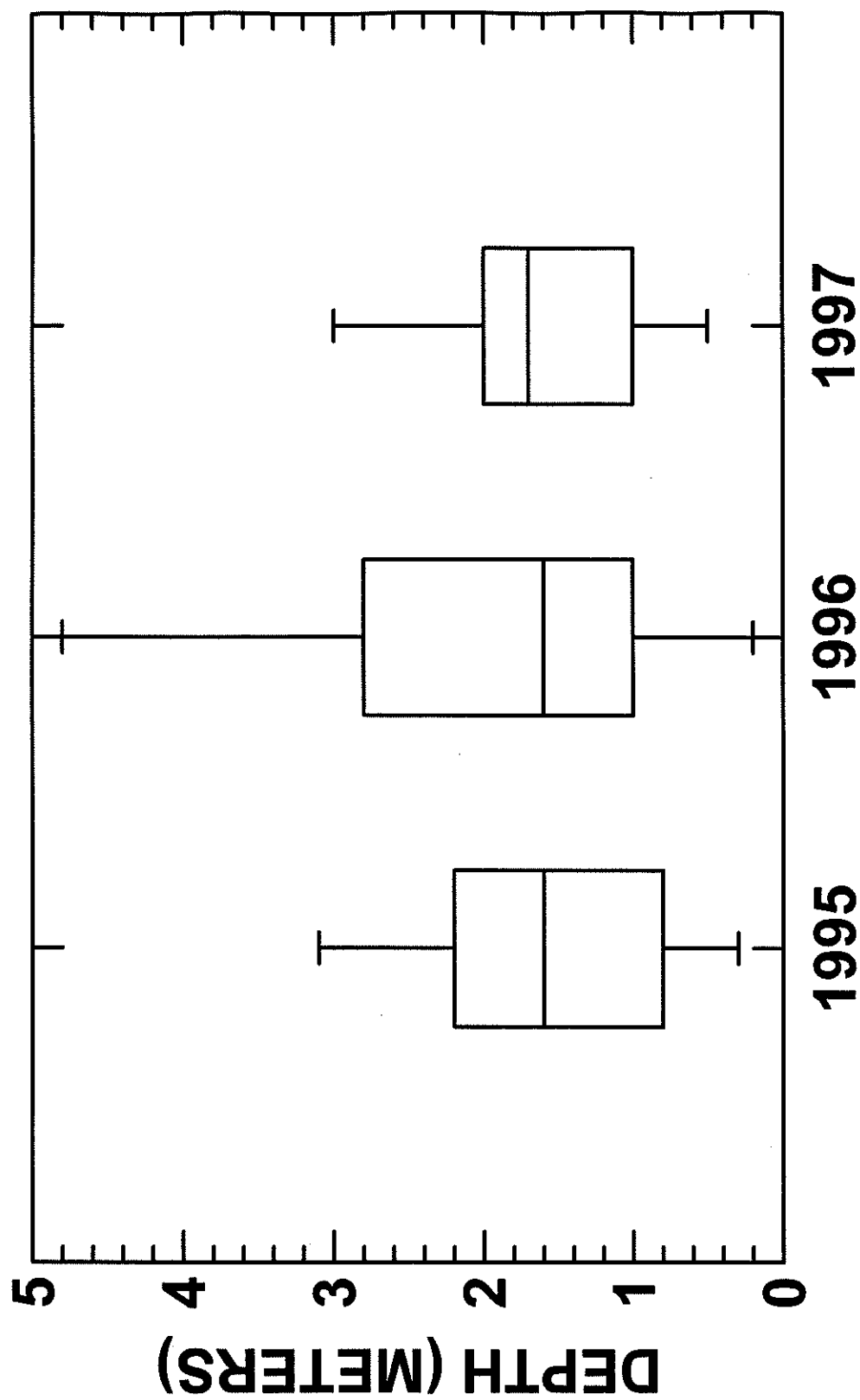


Figure 3. Quartile distribution of sample depths for sediments and benthic macroinvertebrates in Boca Ciega Bay, 1995-1997. Horizontal mid-line represents the median value and hinges represent the 25th and 75th percentiles.

BOCA CIEGA BAY: 1995-1997

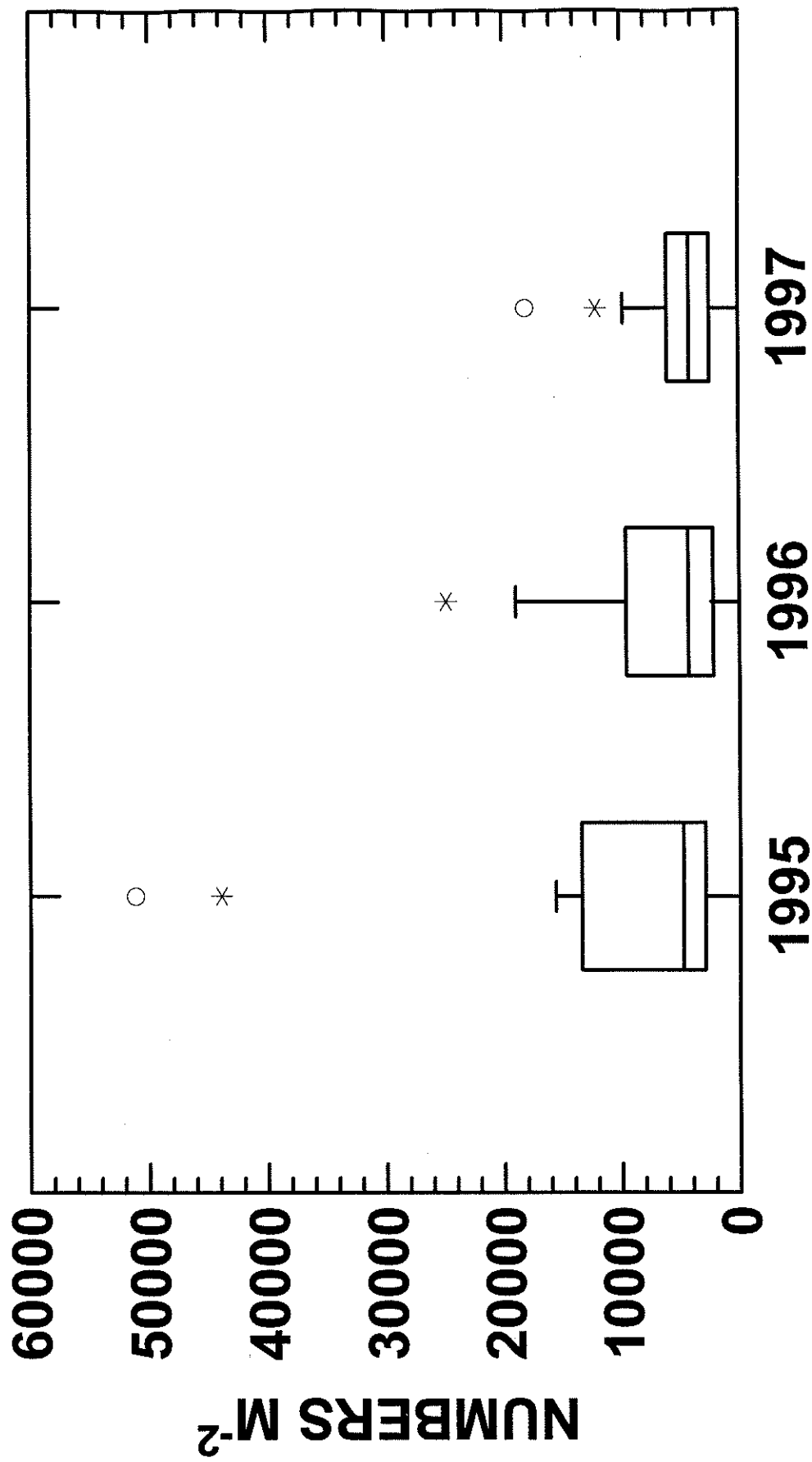


Figure 4. Quartile distribution of abundance of total benthic macroinvertebrates in Boca Ciega Bay, 1995-1997. Horizontal mid-line represents the median value and hinges represent the 25th and 75th percentiles.

BOCA CIEGA BAY 1995-1997

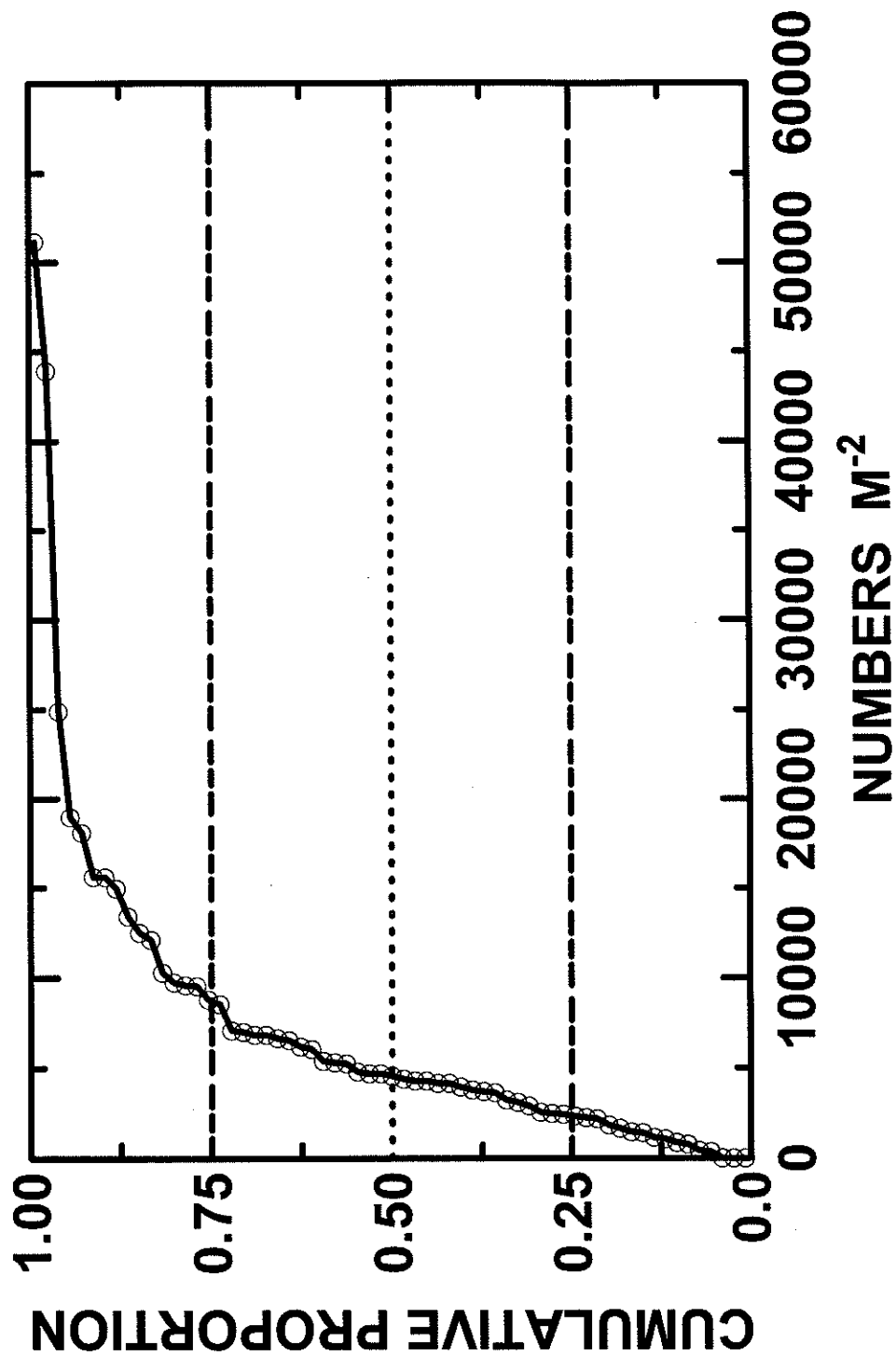


Figure 5. Cumulative frequency distribution of abundance of total benthic macroinvertebrates in Boca Ciega Bay, 1995-1997.

BOCA CIEGA BAY: 1995-1997

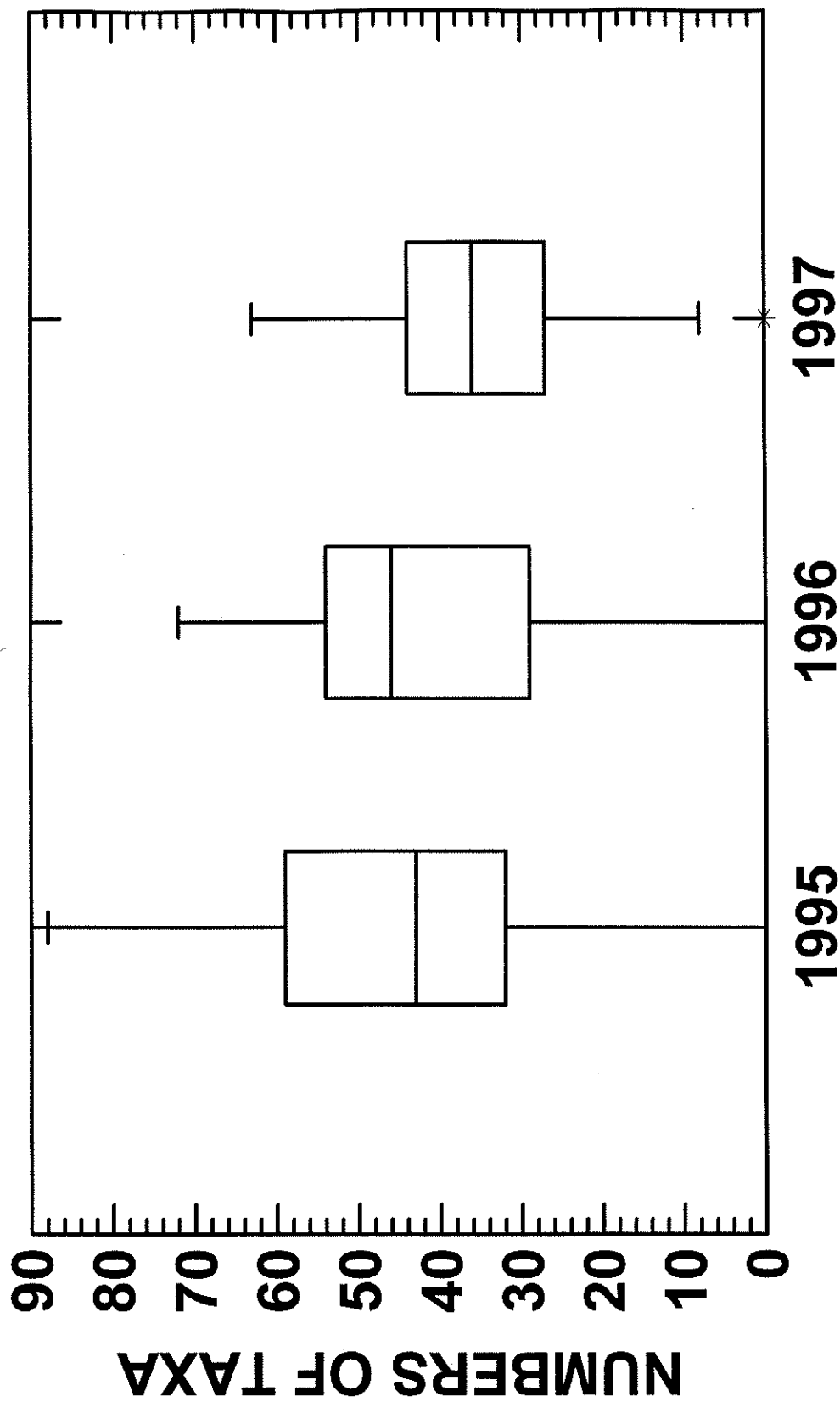


Figure 6. Quartile distribution of numbers of macroinvertebrate taxa in Boca Ciega Bay, 1995-1997. Horizontal mid-line represents the median value and hinges represent the 25th and 75th percentiles.

BOCA CIEGA BAY 1995-1997

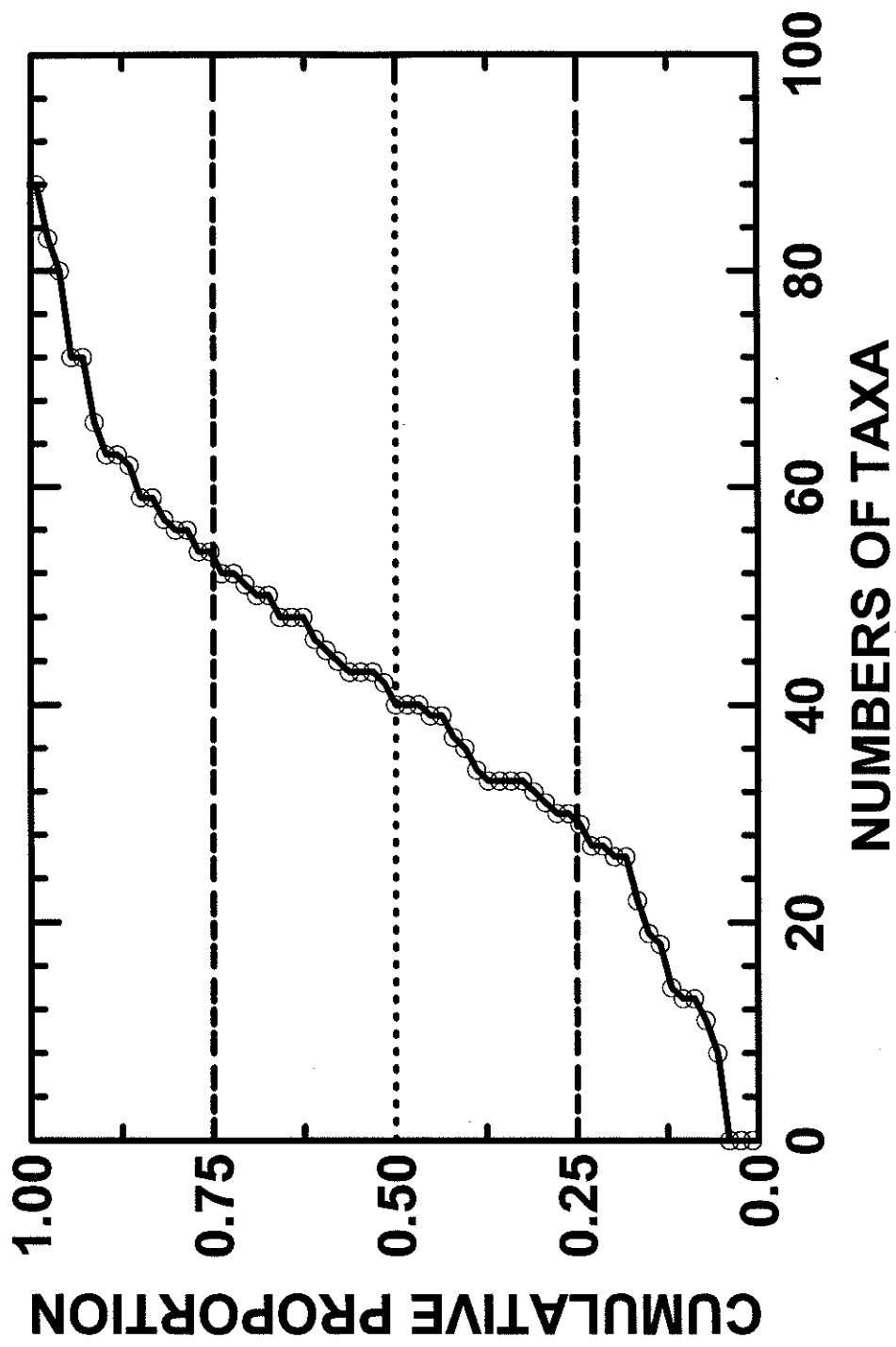


Figure 7. Cumulative frequency distribution of numbers of macroinvertebrate taxa in Boca Ciega Bay, 1995-1997.

BOCA CIEGA BAY: 1995-1997

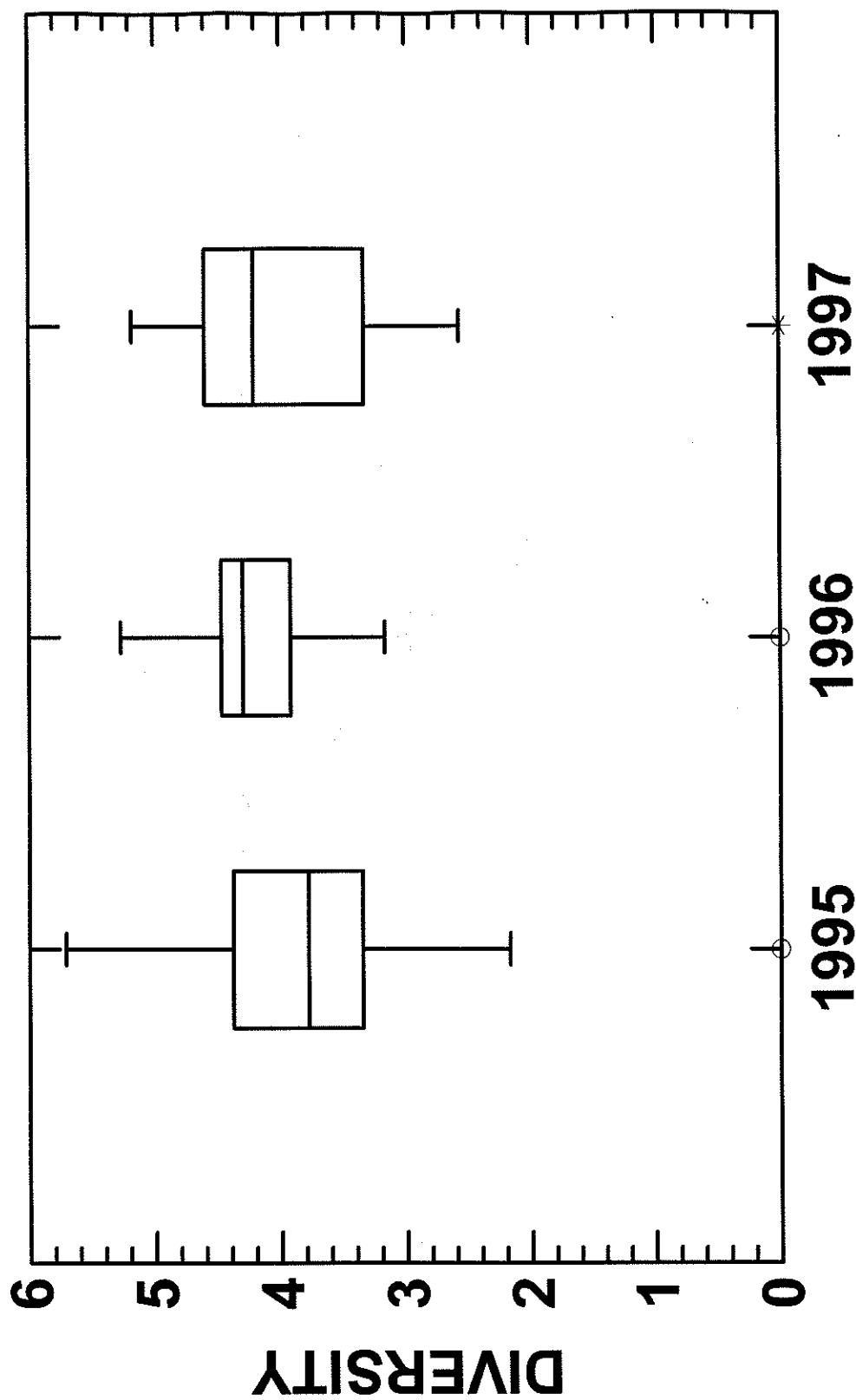


Figure 8. Quartile distribution of Shannon-Wiener diversity in Boca Ciega Bay, 1995-1997. Horizontal mid-line represents the median value and hinges represent the 25th and 75th percentiles.

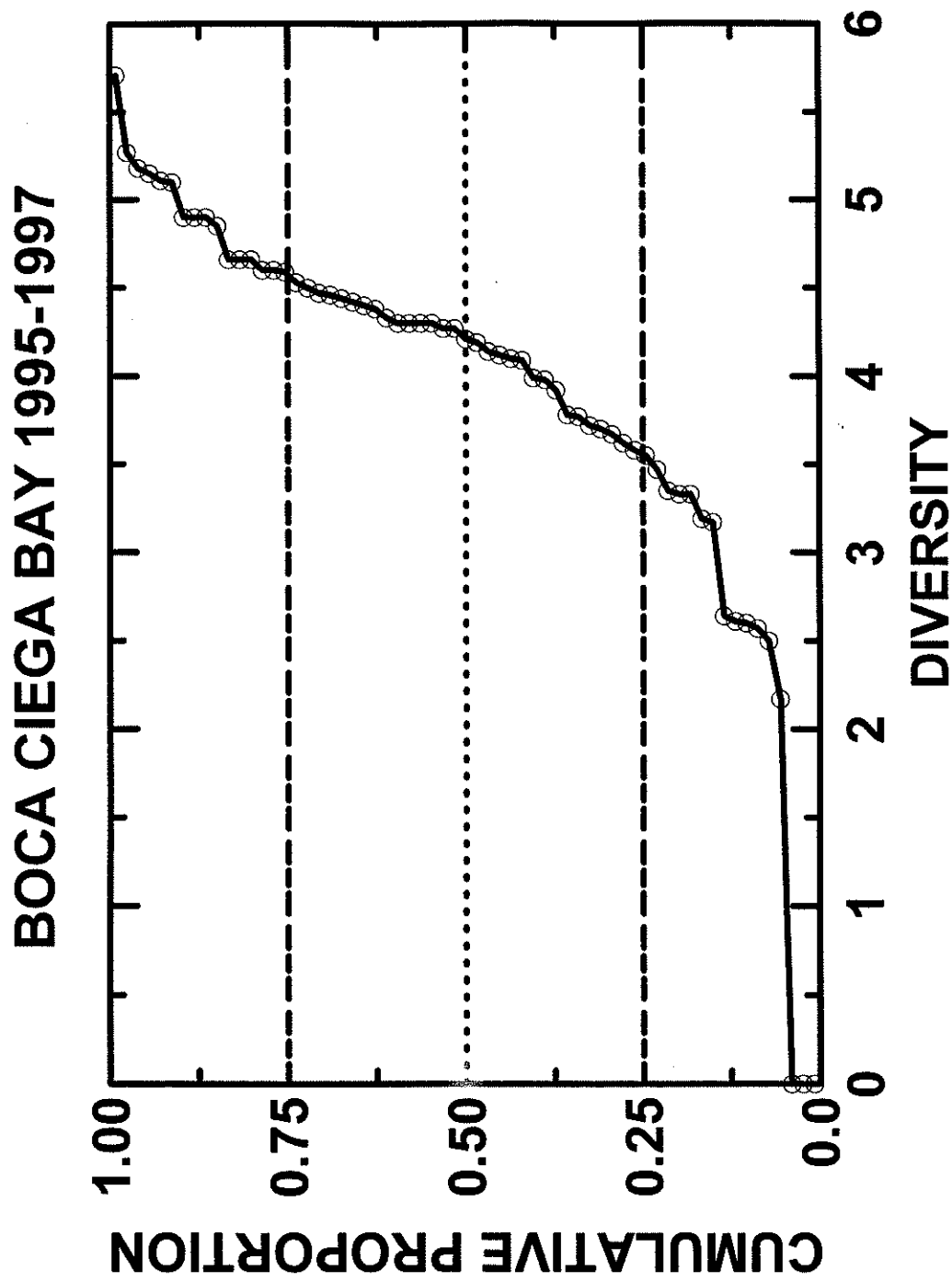


Figure 9. Cumulative frequency distribution of Shannon-Wiener diversity in Boca Ciega Bay, 1995-1997.

BOCA CIEGA BAY: 1995-1997

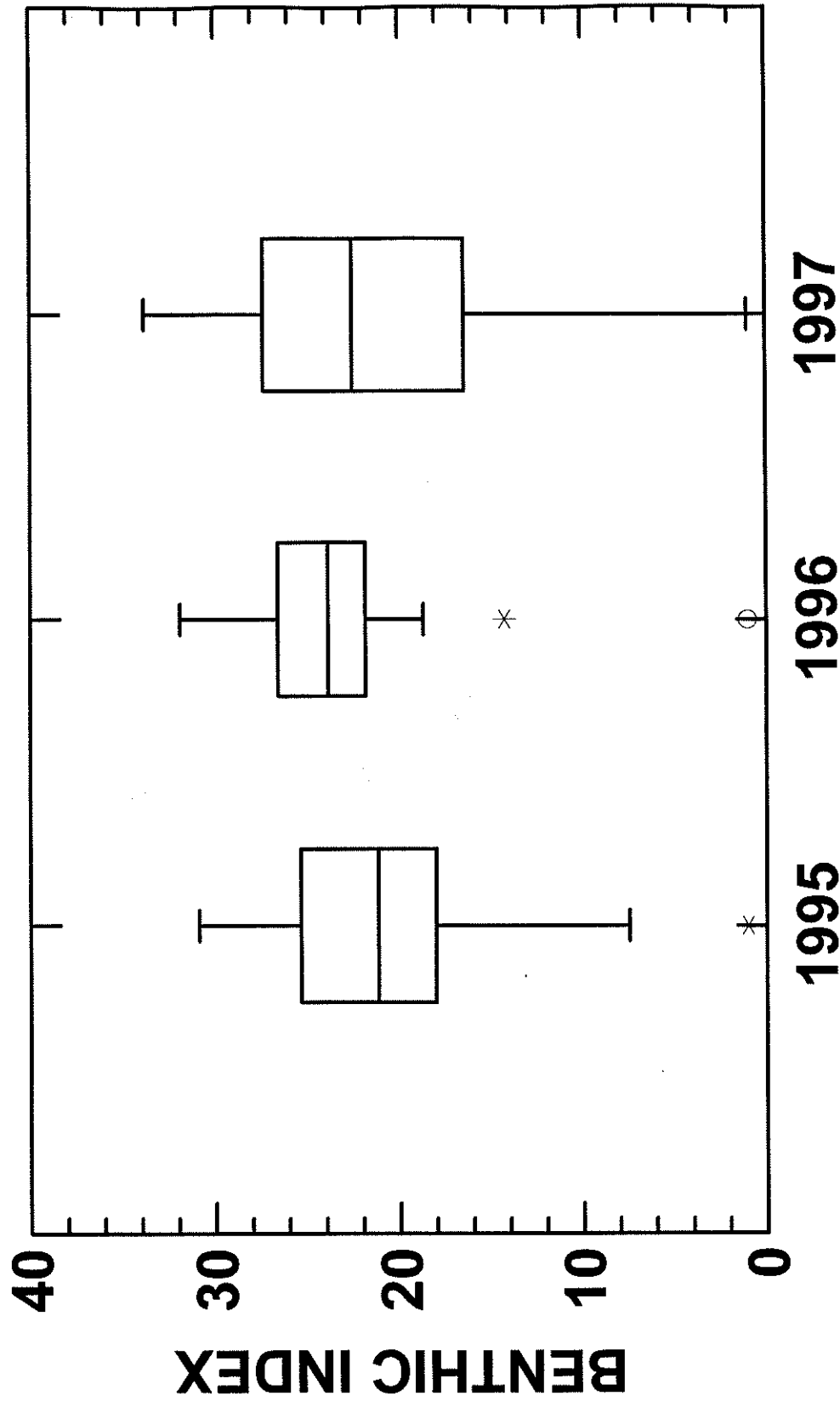


Figure 10. Quartile distribution of the Tampa Bay Benthic Index in Boca Ciega Bay, 1995-1997. Horizontal mid-line represents the median value and hinges represent the 25th and 75th percentiles.

BOCA CIEGA BAY 1995-1997

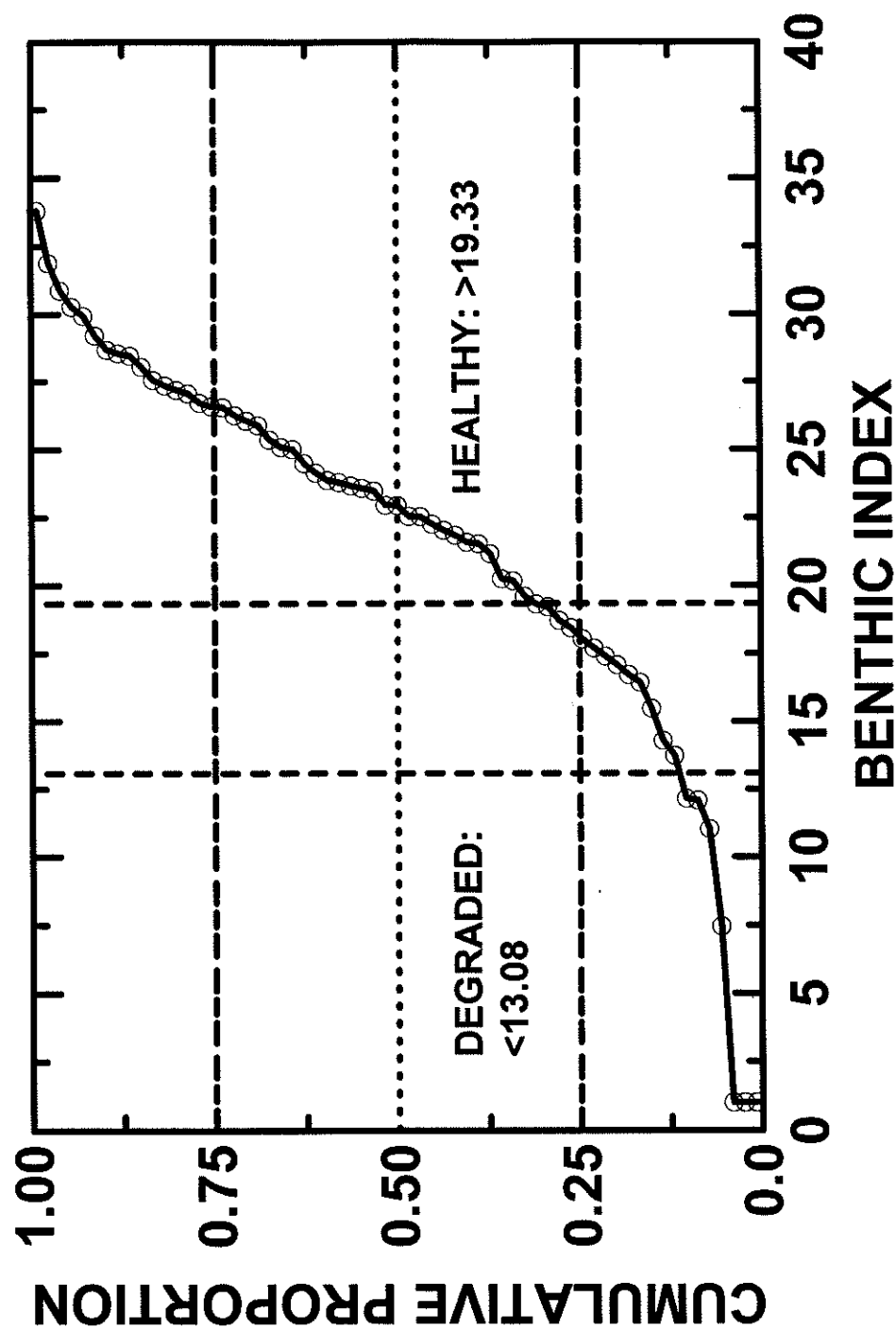


Figure 11. Cumulative frequency distribution of Tampa Bay Benthic Index in Boca Ciega Bay, 1995-1997. Index scores <13.08 are considered diagnostic of "degraded" benthic habitat and scores >19.33 are diagnostic of "healthy" habitat.

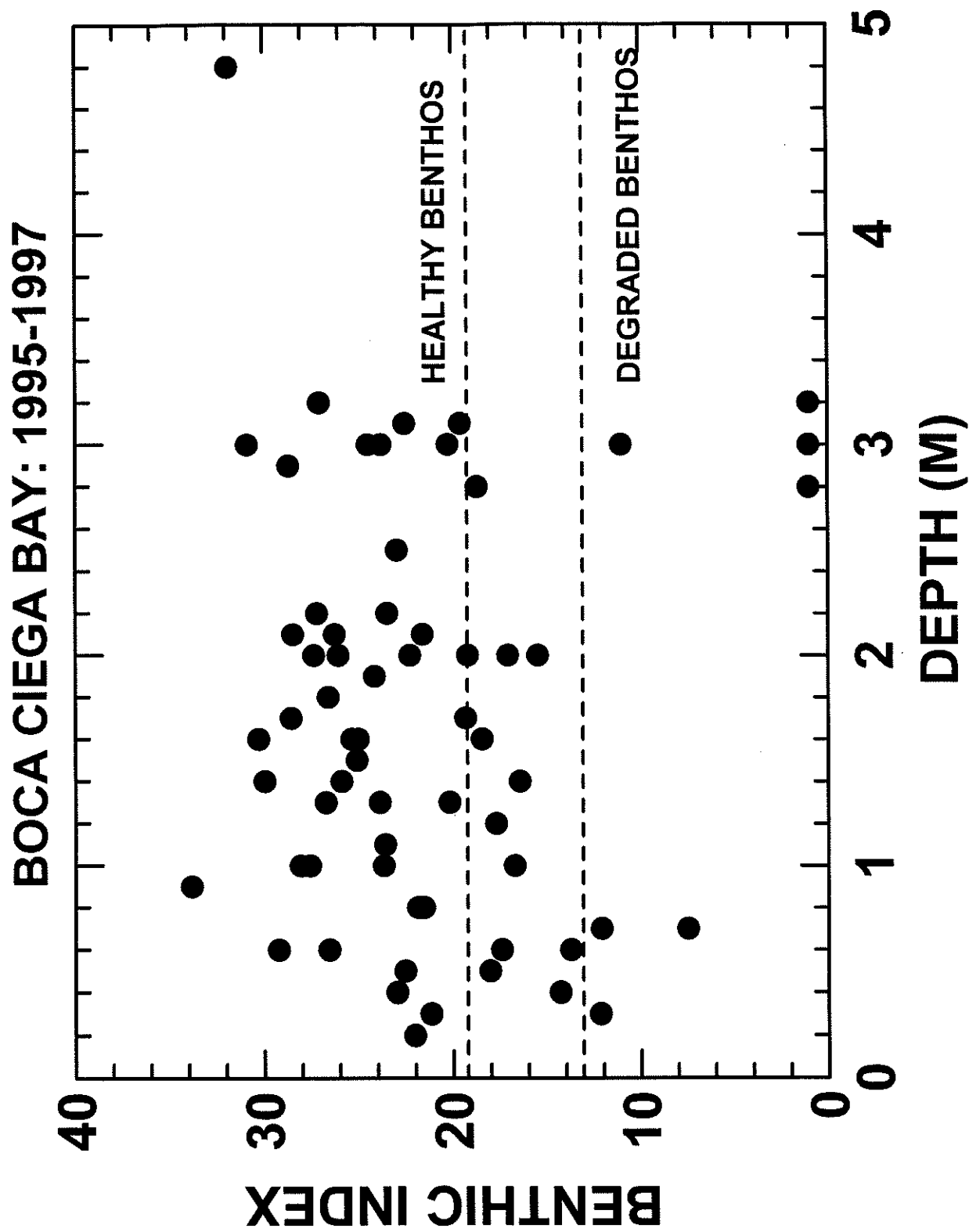


Figure 12. Association between the Tampa Bay Benthic Index and sample depth in Boca Ciega Bay, 1995-1997.

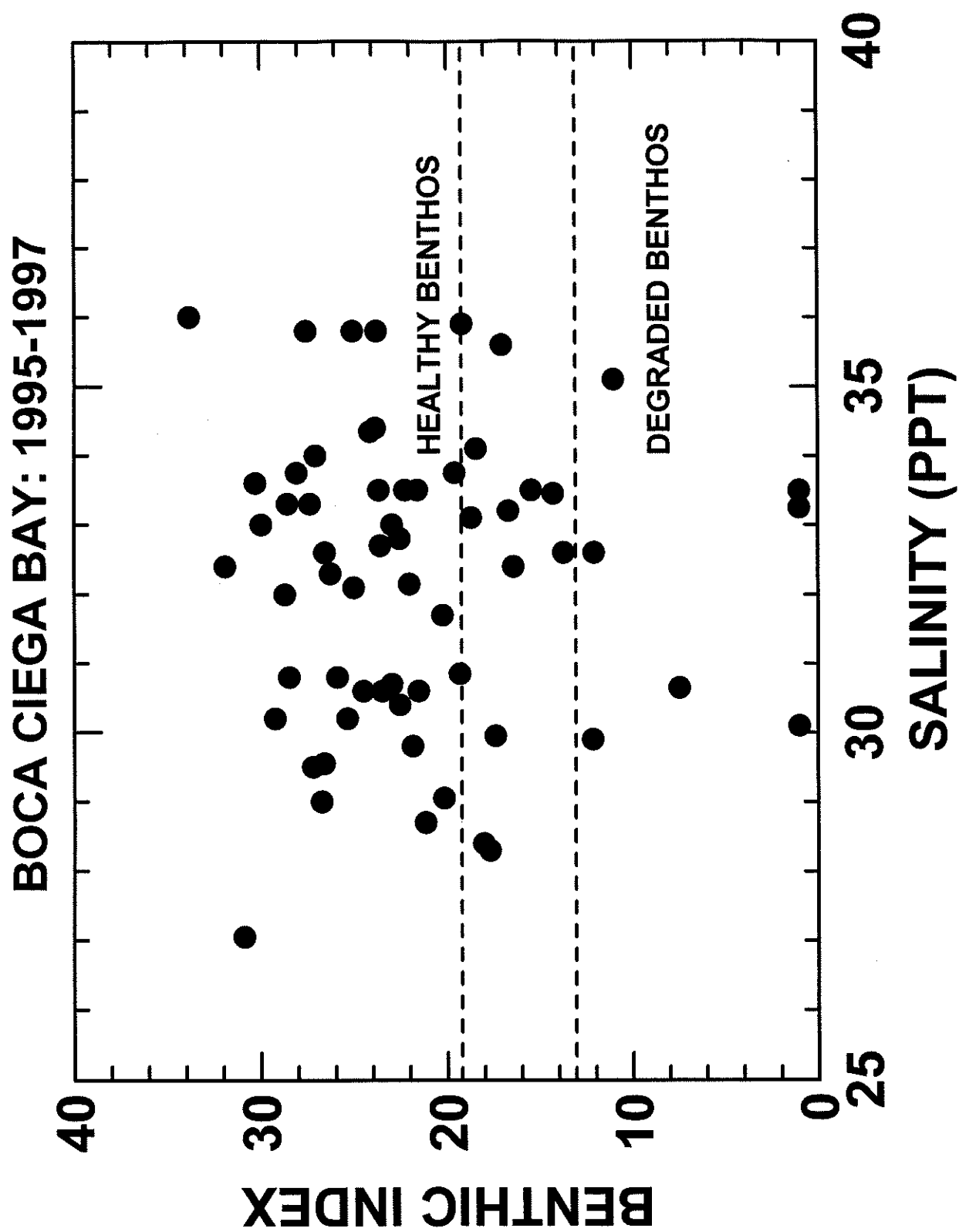


Figure 13. Association between the Tampa Bay Benthic Index and salinity in Boca Ciega Bay, 1995-1997.

BOCA CIEGA BAY: 1995-1997

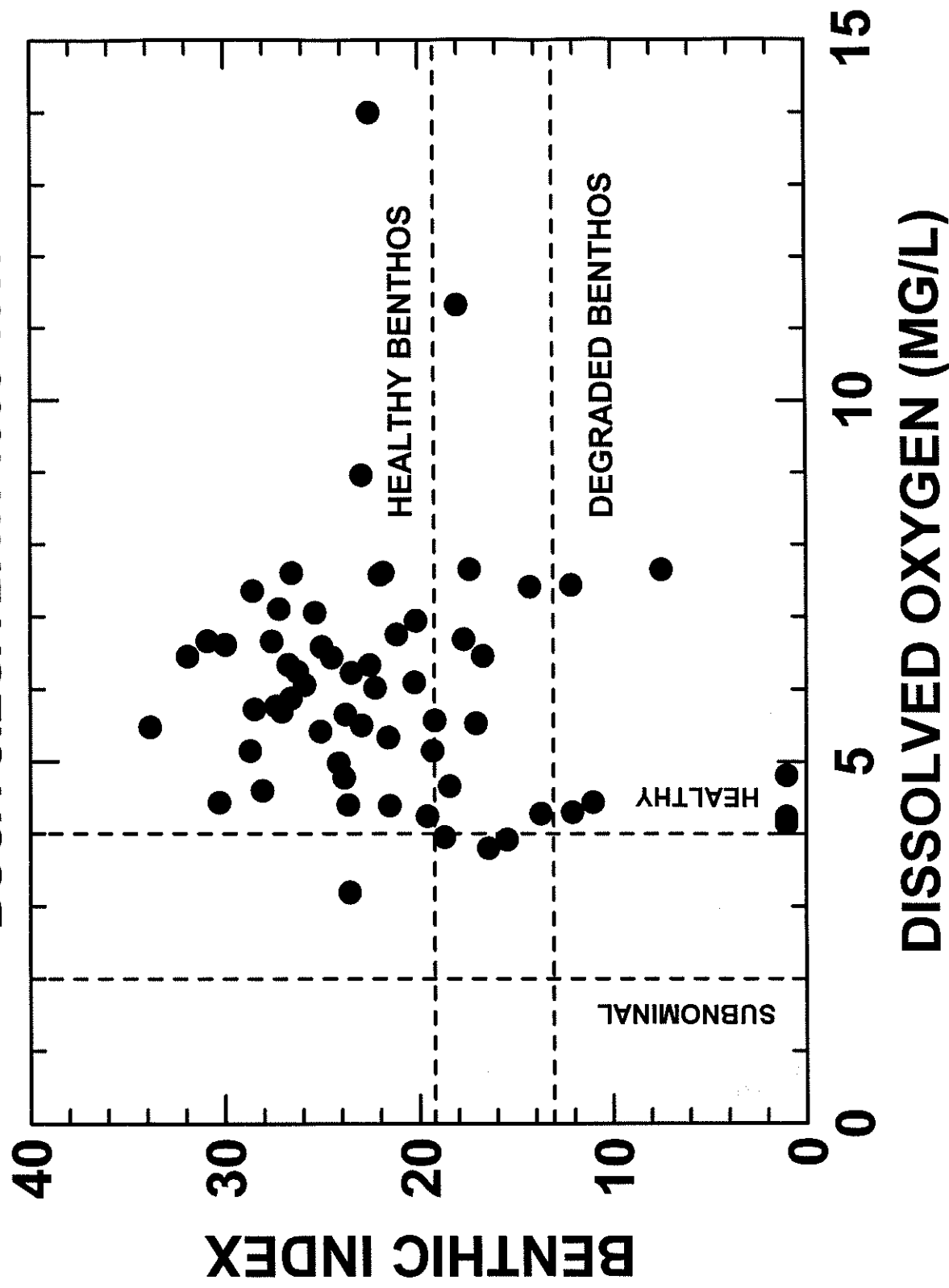


Figure 14. Association between the Tampa Bay Benthic Index and dissolved oxygen in Boca Ciega Bay

BOCA CIEGA BAY: 1996 & 1997

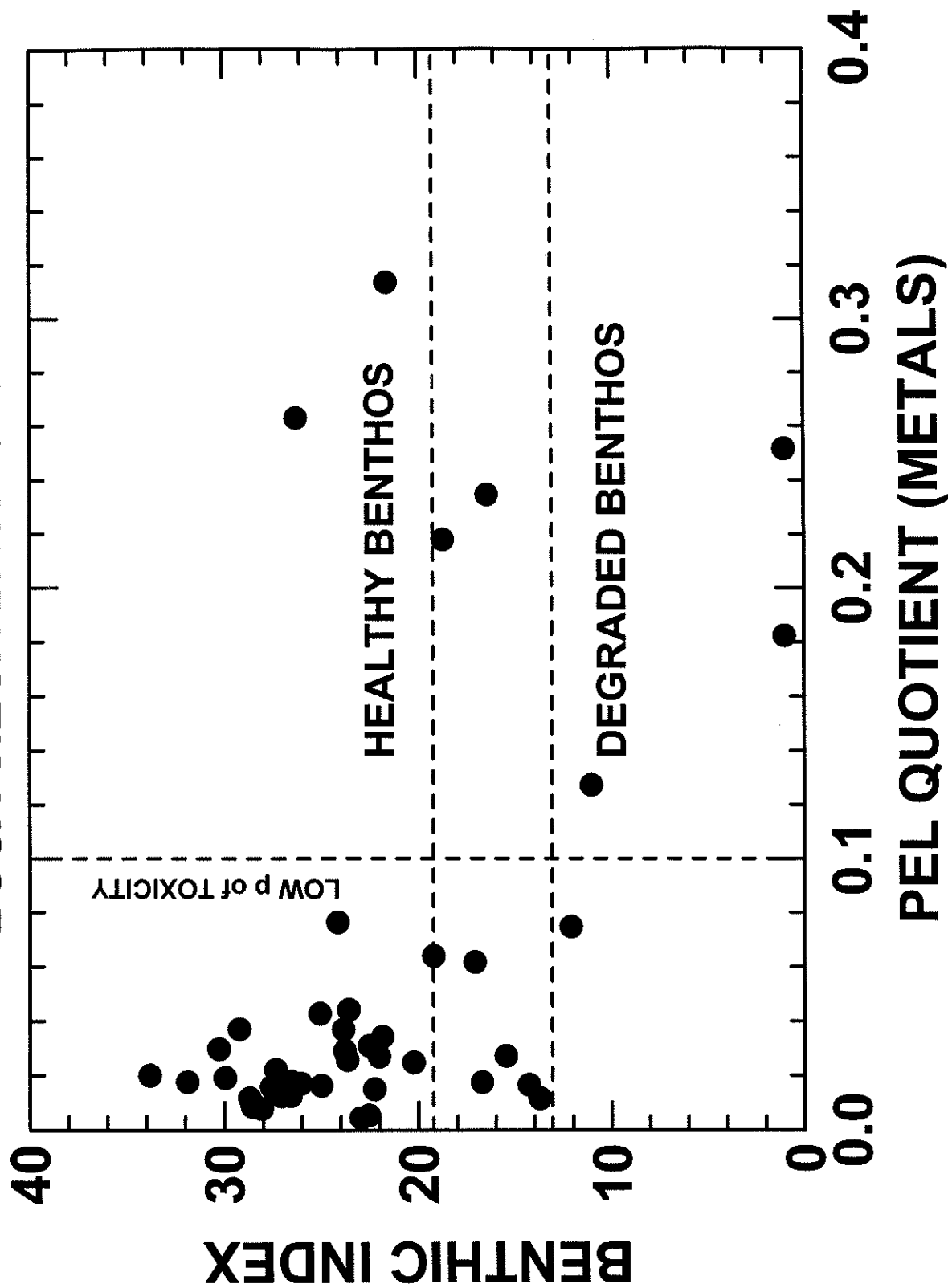


Figure 15. Association between the Tampa Bay Benthic Index and the PEL quotient for metals in Boca Ciega Bay 1996 & 1997. Sediments with a PEL quotient <0.1 have a low probability of being toxic.

APPENDIX A

RANKED MEAN ABUNDANCE OF BENTHIC MACROINVERTEBRATES COMPRISING AT LEAST 1% OF TOTAL ABUNDANCE IN BOCA CIEGA BAY 1997

1997 BOCA CIEGA BAY BENTHOS:
TAXA COMPRISING >1% OF TOTAL ABUNDANCE

Taxa	Observed	Percentage
<i>Tubificidae</i>	450.00	8.79
<i>Monocorophium tuberculatum</i>	329.76	6.44
<i>Laonereis culveri</i>	269.05	5.26
<i>Streblospio benedicti</i>	213.10	4.16
<i>Mediomastus californiensis</i>	177.38	3.47
<i>Monticellina dorsobranchialis</i>	165.48	3.23
<i>Tellina</i> sp.	164.29	3.21
<i>Tellina versicolor</i>	138.10	2.70
<i>Americorophium ellisi</i>	135.71	2.65
<i>Axiothella mucosa</i>	132.14	2.58
<i>Carazziella hobsonae</i>	125.00	2.44
<i>Paraprionospio pinnata</i>	90.48	1.77
<i>Syllis</i> cf. <i>lutea</i>	90.48	1.77
<i>Jaspidella blanesi</i>	88.10	1.72
<i>Parvilucina multilineata</i>	78.57	1.54
<i>Branchiostoma floridae</i>	76.19	1.49
<i>Capitella capitata</i>	67.86	1.33
<i>Phascolion crypta</i>	64.29	1.26
<i>Exogone dispar</i>	63.10	1.23
<i>Fabriziunda trilobata</i>	61.90	1.21
<i>Neaeromya floridana</i>	52.38	1.02
<i>Prionospio heterobranchia</i>	51.19	1.00

APPENDIX B

**MEAN ABUNDANCE
AND FREQUENCY OF
OCCURRENCE
OF BENTHIC MACROINVERTEBRATES
IN BOCA CIEGA BAY 1997**

Taxa	Mean (Divisor = N)	Std.Dev.	M / N
Thenaria	1.19	----	1/ 21
Turbellaria sp. A	4.76	10.06	4/ 21
Nemertea T	23.81	37.48	7/ 21
Nemertea R	2.38	----	1/ 21
Nemertea N	2.38	----	1/ 21
Nemertea F	4.76	12.79	3/ 21
Nemertea I	7.14	27.55	2/ 21
Nemertea K	7.14	14.02	5/ 21
Nemertea B	10.71	21.75	5/ 21
Harmothoe	1.19	----	1/ 21
Malmgreniella maccraryae	8.33	19.90	4/ 21
Malmgreniella taylori	1.19	----	1/ 21
Sthenelais sp. A	4.76	16.99	2/ 21
Nereiphylla castanea	9.52	38.30	2/ 21
Paranaitis gardineri	1.19	----	1/ 21
Phyllodoce arenae	2.38	7.52	2/ 21
Paraheione luteola	1.19	----	1/ 21
Podarke obscura	3.57	8.96	3/ 21
Hesione sp.	1.19	----	1/ 21
Podarkeopsis levifuscina	47.62	70.22	14/ 21
Ancistrosyllis jonesi	2.38	----	1/ 21
Autolytinae	1.19	----	1/ 21
Autolytus sp.	1.19	----	1/ 21
Proceras sp. A	1.19	----	1/ 21
Pionosyllis sp.	1.19	----	1/ 21
Syllis cornuta	20.24	44.45	6/ 21
Trypanosyllis sp.	11.90	----	1/ 21
Syllis cf. lutea	90.48	262.26	4/ 21
Exogone dispar	63.10	198.84	6/ 21
Sphaerosyllis aciculata	1.19	----	1/ 21
Sphaerosyllis taylori	1.19	----	1/ 21
Sphaerosyllis longicauda	1.19	----	1/ 21
Sphaerosyllis labyrinthophila	2.38	7.52	2/ 21
Grubeosyllis sp.	4.76	----	1/ 21
Grubeosyllis (Brania) clavata	1.19	----	1/ 21
Brania wellfleetensis	1.19	----	1/ 21
Syllides ?fulvus	1.19	----	1/ 21
Parapionosyllis sp.	1.19	----	1/ 21
Ceratonereis irritabilis	5.95	22.23	2/ 21
Neanthes acuminata	1.19	----	1/ 21
Platynereis dumerilii	5.95	----	1/ 21
Laeonereis culveri	269.05	1154.07	4/ 21
Aglaophamus verrilli	16.67	32.91	6/ 21
Glycera americana	2.38	7.52	2/ 21
Glycinde solitaria	26.19	38.30	10/ 21

1997 BOCA CIEGA BAY BENTHOS (CONTINUED)

Taxa	Mean (Divisor = N)	Std.Dev.	M / N
<i>Onuphidae</i>	7.14	16.09	4/ 21
<i>Mooreonuphis</i> sp.	1.19	----	1/ 21
<i>Diopatra cuprea</i>	7.14	27.55	2/ 21
<i>Kinbergonuphis simoni</i>	30.95	82.88	4/ 21
<i>Marphysa ?sanguinea</i>	1.19	----	1/ 21
<i>Marphysa</i> nr. <i>belli</i>	1.19	----	1/ 21
<i>Lumbrineris</i> sp.	1.19	----	1/ 21
<i>Lumbrineris tenuis</i>	5.95	22.23	2/ 21
<i>Lumbrineris verrilli</i>	3.57	11.95	2/ 21
<i>Arabella mutans</i>	1.19	----	1/ 21
<i>Arabella multidentata</i>	1.19	----	1/ 21
<i>Ophryotrocha</i> sp.	1.19	----	1/ 21
<i>Schistomeringos</i> cf. <i>rudolphi</i>	21.43	36.47	8/ 21
<i>Pettiboneia</i> sp.	2.38	----	1/ 21
<i>Leitoscoloplos robustus</i>	10.71	34.07	3/ 21
<i>Scoloplos rubra</i>	39.29	126.39	3/ 21
<i>Leitoscoloplos</i>	3.57	11.95	2/ 21
<i>Aricidea</i> sp.	2.38	7.52	2/ 21
<i>Aricidea suecica</i>	28.57	108.77	4/ 21
<i>Aricidea philbinae</i>	3.57	11.95	2/ 21
<i>Aricidea taylori</i>	3.57	11.95	2/ 21
<i>Aricidea alisdari</i>	1.19	----	1/ 21
<i>Cirrophorus</i>	46.43	110.19	7/ 21
<i>Polydora socialis</i>	29.76	56.25	10/ 21
<i>Polydora cornuta</i>	26.19	74.78	3/ 21
<i>Prionospio heterobranchia</i>	51.19	92.02	9/ 21
<i>Apoprionospio pygmaea</i>	20.24	40.79	5/ 21
<i>Prionospio cristata</i>	1.19	----	1/ 21
<i>Prionospio perkinsi</i>	46.43	81.12	11/ 21
<i>Spio</i> sp.	1.19	----	1/ 21
<i>Spio pettiboneae</i>	1.19	----	1/ 21
<i>Paraprionospio pinnata</i>	90.48	215.13	11/ 21
<i>Streblospio benedicti</i>	213.10	399.19	8/ 21
<i>Carazziella hobsonae</i>	125.00	303.73	8/ 21
<i>Magelona pettiboneae</i>	14.29	30.18	6/ 21
<i>Poecilochaetus johnsoni</i>	1.19	----	1/ 21
<i>Chaetopterus pergamentaceus</i>	3.57	----	1/ 21
<i>Cirratulidae</i>	7.14	23.90	2/ 21
<i>Caulleriella</i> cf. <i>alata</i>	7.14	----	1/ 21
<i>Caulleriella zetlandicus</i>	20.24	----	1/ 21
<i>Aphelochaeta</i> sp?	7.14	17.93	4/ 21
<i>Monticellina dorsobranchialis</i>	165.48	339.34	10/ 21
<i>Chaetozone</i>	2.38	----	1/ 21
<i>Cirriformia</i> sp. 1	17.86	59.76	2/ 21
<i>Armandia maculata</i>	14.29	34.97	4/ 21
<i>Capitella capitata</i>	67.86	166.61	5/ 21
<i>Heteromastus filiformis</i>	1.19	----	1/ 21
<i>Notomastus latericeus</i>	9.52	18.50	5/ 21
<i>Notomastus hemipodus</i>	19.05	44.65	5/ 21
<i>Mediomastus</i>	14.29	49.10	4/ 21
<i>Mediomastus ambiseta</i>	16.67	42.08	4/ 21
<i>Mediomastus californiensis</i>	177.38	326.05	14/ 21

1997 BOCA CIEGA BAY BENTHOS (CONTINUED)

Taxa	Mean (Divisor = N)	Std.Dev.	M / N
Maldanidae	2.38	7.52	2/ 21
Sabaco americanus	3.57	8.96	3/ 21
Axiiothella mucosa	132.14	418.71	7/ 21
Owenia fusiformis	2.38	7.52	2/ 21
Sabellaria sp.	8.33	----	1/ 21
Pectinaria gouldii	2.38	----	1/ 21
Amphicteis gunneri	2.38	----	1/ 21
Melinna sp.	1.19	----	1/ 21
Isolda pulchella	7.14	27.55	2/ 21
Lanassa sp.	1.19	----	1/ 21
Loimia medusa	2.38	7.52	2/ 21
Terebella rubra	2.38	----	1/ 21
Streblosoma hartmanae	25.00	108.97	2/ 21
Chone sp.	2.38	7.52	2/ 21
Megalomma sp.	38.10	163.48	2/ 21
Megalomma pigmentum	11.90	29.18	5/ 21
Potamilla cf. reniformis	1.19	----	1/ 21
Sabella melanostigma	4.76	----	1/ 21
Fabriciunda trilobata	61.90	240.91	3/ 21
Demonax	1.19	----	1/ 21
Demonax microphthalma	7.14	----	1/ 21
Fabriciinae	3.57	----	1/ 21
Serpula sp.	1.19	----	1/ 21
Pomatoceros americanus	4.76	----	1/ 21
Tubificidae	450.00	1300.67	12/ 21
Tubificoides wasselli	28.57	72.15	5/ 21
Inanidrilus bulbosus	1.19	----	1/ 21
Gastropoda	1.19	----	1/ 21
Schwartziella catesbyana	2.38	7.52	2/ 21
Teinostoma sp.	1.19	----	1/ 21
Caecum pulchellum	5.95	17.51	3/ 21
Modulus modulus	1.19	----	1/ 21
Cerithium atratum	3.57	----	1/ 21
Bittium varium	19.05	57.50	3/ 21
Melanella ?intermedia	2.38	7.52	2/ 21
Microeulima hemphilli	1.19	----	1/ 21
Crepidula	15.48	33.98	4/ 21
Crepidula fornicata	3.57	----	1/ 21
Crepidula plana	1.19	----	1/ 21
Tectonatica pusilla	1.19	----	1/ 21
Astris lunulata	3.57	----	1/ 21
Parvanachis obesa	1.19	----	1/ 21
Costoanachis lafresnayi	1.19	----	1/ 21
Nassarius vibex	19.05	70.67	4/ 21
Olivella pusilla	10.71	24.46	5/ 21
Jaspidella blanesi	88.10	120.84	12/ 21
Granulina hadria	7.14	22.56	3/ 21
Dentimargo aureocinctus	1.19	----	1/ 21
Gibberula lavalleenana	13.10	30.23	4/ 21

1997 BOCA CIEGA BAY BENTHOS (CONTINUED)

Taxa	Mean (Divisor = N)	Std.Dev.	M / N
<i>Prunum apicinum</i>	13.10	29.18	6/ 21
<i>Marginella apicina</i>	2.38	----	1/ 21
<i>Kurtziella ?diomedea</i>	1.19	----	1/ 21
<i>Pilsbryspira leucoryana</i>	2.38	7.52	2/ 21
<i>Conus stearnsi</i>	2.38	7.52	2/ 21
<i>Terebra protexta</i>	1.19	----	1/ 21
<i>Eulimastoma weberi</i>	17.86	49.46	3/ 21
<i>Eulimastoma teres</i>	1.19	----	1/ 21
<i>Turbonilla conradi</i>	3.57	8.96	3/ 21
<i>Turbonilla cf. dalli</i>	13.10	20.34	7/ 21
<i>Turbonilla hemphilli</i>	2.38	----	1/ 21
<i>Pyramidella crenulata</i>	1.19	----	1/ 21
<i>Acteocina canaliculata</i>	50.00	82.16	8/ 21
<i>Cylichnella bidentata</i>	3.57	----	1/ 21
<i>Bulla striata</i>	16.67	53.23	2/ 21
<i>Haminoea succinea</i>	20.24	62.56	4/ 21
<i>Haminoea antillarum</i>	1.19	----	1/ 21
<i>Aplysia sp.</i>	17.86	56.54	2/ 21
<i>Acanthopleura granulata</i>	9.52	33.05	3/ 21
<i>Bivalvia</i>	14.29	41.51	3/ 21
<i>Nucula crenulata</i>	14.29	34.97	5/ 21
<i>Nuculana acuta</i>	25.00	61.75	4/ 21
<i>Solemya occidentalis</i>	9.52	14.74	7/ 21
<i>Anadara transversa</i>	3.57	11.95	2/ 21
<i>Brachidontes exustus</i>	1.19	----	1/ 21
<i>Pinnidae</i>	1.19	----	1/ 21
<i>Anomia simplex</i>	2.38	----	1/ 21
<i>Parvilucina multileneata</i>	78.57	136.77	11/ 21
<i>Lucina nassula</i>	1.19	----	1/ 21
<i>Linga amiantus</i>	1.19	----	1/ 21
<i>Diplodonta semiaspera</i>	40.48	84.59	6/ 21
<i>Neaeromya floridana</i>	52.38	111.78	5/ 21
<i>Mysella planulata</i>	45.24	97.02	9/ 21
<i>Mysella sp. A</i>	1.19	----	1/ 21
<i>Pteromeris perplanna</i>	1.19	----	1/ 21
<i>Carditamera floridana</i>	5.95	22.23	2/ 21
<i>Laevicardium mortoni</i>	9.52	16.73	6/ 21
<i>Mulinia lateralis</i>	8.33	22.82	4/ 21
<i>Macoma tenta</i>	9.52	24.34	4/ 21
<i>Tellina sp.</i>	164.29	257.70	14/ 21
<i>Tellina iris</i>	2.38	----	1/ 21
<i>Tellina lineata</i>	2.38	7.52	2/ 21
<i>Tellina versicolor</i>	138.10	354.23	11/ 21
<i>Tellina alternata</i>	1.19	----	1/ 21
<i>Tellidora cristatus</i>	5.95	13.47	4/ 21
<i>Tagelus plebeius</i>	4.76	----	1/ 21
<i>Tagelus divisus</i>	34.52	110.81	4/ 21
<i>Abra aequalis</i>	2.38	----	1/ 21

1997 BOCA CIEGA BAY BENTHOS (CONTINUED)

Taxa	Mean (Divisor = N)	Std.Dev.	M / N
Veneridae	3.57	----	1/ 21
Tranennella conradina	3.57	11.95	2/ 21
Chione cancellata	44.05	73.27	10/ 21
Anomalocardia auferiana	1.19	----	1/ 21
Parastarte triquetra	10.71	28.03	3/ 21
Sphenia antillensis	1.19	----	1/ 21
Corbula contracta	8.33	24.15	3/ 21
Lyonsia hyalina floridana	32.14	71.65	5/ 21
Asthenothaerus hemphilli	28.57	57.17	6/ 21
Dentalium laqueatum	3.57	8.96	3/ 21
Cirripedia	1.19	----	1/ 21
Oxyurostylis	1.19	----	1/ 21
Oxyurostylis smithi	4.76	12.79	3/ 21
Almyracuma proximoculi	1.19	----	1/ 21
Cyclaspis cf. varians	1.19	----	1/ 21
Kalliapseudes sp. A	8.33	32.91	2/ 21
Leptochelia	47.62	150.81	4/ 21
Cyathura polita	2.38	----	1/ 21
Amakusanthura magnifica	19.05	41.76	5/ 21
Paracerceis caudata	1.19	----	1/ 21
Harrieta faxoni	1.19	----	1/ 21
Edotia triloba	4.76	10.06	4/ 21
Gammaridea	2.38	7.52	2/ 21
Ampelisca spp.	2.38	7.52	2/ 21
Ampelisca vadorum	2.38	----	1/ 21
Ampelisca holmesii	23.81	58.88	5/ 21
Ampelisca sp. C	14.29	31.20	4/ 21
Ampelisca abdita/vadorum	2.38	----	1/ 21
Amphilocheus neopolitanus	2.38	----	1/ 21
Cymadusa compta	40.48	94.03	4/ 21
Bemlos unifasciatus	2.38	----	1/ 21
Paramicrodeutopus cf. myersi	23.81	103.52	2/ 21
Monocorophium acherusicum	1.19	----	1/ 21
Monocorophium tuberculatum	329.76	1432.12	3/ 21
Laticorophium cf. baconi	2.38	----	1/ 21
Americorophium ellisi	135.71	----	1/ 21
Erichthonius brasiliensis	8.33	32.91	2/ 21
Grandidierella bonnieroides	13.10	34.11	3/ 21
Elasmopus laevis	15.48	47.75	3/ 21
Photis sp. C	1.19	----	1/ 21
Microprotopus raneyi	7.14	22.56	3/ 21
Microprotopus shoemakeri	1.19	----	1/ 21
Listriella barnardi	33.33	91.63	5/ 21
Eudevenopus honduranus	3.57	----	1/ 21
Deutella incerta	13.10	30.23	4/ 21
Paracaprella	1.19	----	1/ 21
Paracaprella pusilla	1.19	----	1/ 21

1997 BOCA CIEGA BAY BENTHOS (CONTINUED)

Taxa	Mean (Divisor = N)	Std.Dev.	M / N
<i>Trachypenaeus</i>	1.19	----	1/ 21
<i>Alpheus</i>	2.38	----	1/ 21
<i>Ambidexter symmetricus</i>	1.19	----	1/ 21
<i>Paguroidea</i>	1.19	----	1/ 21
<i>Pagurus</i>	2.38	----	1/ 21
<i>Pagurus maclaughlinae</i>	1.19	----	1/ 21
<i>Pinnotheridae</i>	1.19	----	1/ 21
<i>Pinnixa</i> spp.	5.95	17.51	3/ 21
<i>Pinnixa</i> cf. <i>floridana</i>	1.19	----	1/ 21
<i>Sipuncula</i>	1.19	----	1/ 21
<i>Phascolion crypta</i>	64.29	93.73	11/ 21
<i>Phoronis ?architecta</i>	11.90	40.79	2/ 21
<i>Phoronida</i> sp. B	2.38	7.52	2/ 21
<i>Glottidia pyramidata</i>	1.19	----	1/ 21
<i>Ophiuroidea</i>	15.48	27.92	7/ 21
<i>Ophiolepis elegans</i>	1.19	----	1/ 21
<i>Amphipholis squamata</i>	1.19	----	1/ 21
<i>Ophiophragmus wurdemani</i>	1.19	----	1/ 21
<i>Ophiophragmus filograneus</i>	8.33	32.91	2/ 21
<i>Amphioplus sepultus</i> (=abditus)	5.95	----	1/ 21
<i>Amphioplus thrombodes</i>	7.14	23.90	2/ 21
<i>Micropholis gracillima</i>	20.24	40.79	6/ 21
<i>Holothuroidea</i> C	4.76	16.99	2/ 21
<i>Synaptidae</i> sp.	1.19	----	1/ 21
<i>Synaptidae</i> sp. A	1.19	----	1/ 21
<i>Branchiostoma floridae</i>	76.19	243.86	3/ 21

APPENDIX C

RANKED MEAN ABUNDANCE OF BENTHIC MACROINVERTEBRATES IN BOCA CIEGA BAY 1995-1997

BCB BENTHOS
1995-1997

1995-1997 BOCA CIEGA BAY BENTHOS

Overall Summary of 63 Samples		
Summary Characteristics		
Number of Species	:	519
Density of All Species	:	7279.76
Diversity (Hprime -log base 2)	:	6.71
Evenness (Hprime/Hmax)	:	0.74
Taxa	Observed	Percentage
Serpulidae	1077.78	14.81
Tubificidae	384.13	5.28
Tellina sp.	205.56	2.82
Monticellina dorsobranchialis	197.62	2.71
Leptochelia	194.44	2.67
Bittium varium	157.14	2.16
Carazziella hobsonae	136.90	1.88
Paraprionospio pinnata	125.40	1.72
Axiiothella mucosa	122.62	1.68
Monocorophium tuberculatum	110.32	1.52
Mysella planulata	107.94	1.48
Parvilucina multilineata	98.02	1.35
Laeonereis culveri	91.27	1.25
Oligochaeta sp. A	90.48	1.24
Mediomastus californiensis	88.10	1.21
Tellina versicolor	80.16	1.10
Cymadusa compta	79.37	1.09
Synaptidae sp. A	76.59	1.05
Syllis cf. lutea	76.19	1.05
Mysella sp. A	75.40	1.04
Streblospio benedicti	75.40	1.04
Prionospio heterobranchia	70.63	0.97
Cirripecta	64.68	0.89
Kinbergonuphis simoni	63.10	0.87
Mooreonuphis sp. A	62.70	0.86
Exogone dispar	59.92	0.82
Melita elongata	57.14	0.78
Polydora cornuta	57.14	0.78
Jaspidella blanesi	57.14	0.78
Podarkeopsis levifuscina	57.14	0.78
Listriella barnardi	52.38	0.72
Fabriciunda trilobata	51.19	0.70

BCB BENTHOS
1995-1997

<i>Streblosoma hartmanae</i>	47.22	0.65
<i>Crepidula maculosa</i>	46.43	0.64
<i>Americorophium ellisi</i>	45.24	0.62
<i>Diplodonta semiaspera</i>	41.67	0.57
<i>Capitella capitata</i>	39.68	0.55
<i>Branchiostoma floridae</i>	38.89	0.53
<i>Scoloplos rubra</i>	38.10	0.52
<i>Prionospio perkinsi</i>	38.10	0.52
<i>Cirriformia</i> sp. 1	37.30	0.51
<i>Phascolion crypta</i>	36.11	0.50
<i>Acteocina canaliculata</i>	35.71	0.49
<i>Grandidierella bonnieroides</i>	35.71	0.49
<i>Haminoea succinea</i>	35.32	0.49
<i>Acanthopleura granulata</i>	34.52	0.47
<i>Erichthonius brasiliensis</i>	33.73	0.46
<i>Ampithoe longimana</i>	33.33	0.46
<i>Schistomeringos</i> cf. <i>rudolphi</i>	32.94	0.45
<i>Granulina hadria</i>	32.54	0.45
<i>Amakusanthura magnifica</i>	32.14	0.44
<i>Tubificoides wasselli</i>	32.14	0.44
<i>Syllis cornuta</i>	31.35	0.43
<i>Sabella melanostigma</i>	30.95	0.43
<i>Bulla striata</i>	30.95	0.43
<i>Magelona pettiboneae</i>	30.95	0.43
<i>Mediomastus</i>	30.56	0.42
<i>Asthenothaerus hemphilli</i>	29.37	0.40
<i>Corbula contracta</i>	28.57	0.39
<i>Cirrophorus</i> ? <i>lyra</i>	28.57	0.39
<i>Crepidula plana</i>	28.57	0.39
<i>Neaeromya floridana</i>	28.17	0.39
<i>Apoprionospio pygmaea</i>	28.17	0.39
<i>Ampelisca holmesi</i>	27.38	0.38
<i>Elasmopus laevis</i>	26.98	0.37
<i>Lyonsia hyalina floridana</i>	26.98	0.37
<i>Tagelus divisus</i>	26.59	0.37
<i>Glycinde solitaria</i>	26.19	0.36
<i>Nucula crenulata</i>	25.79	0.35
<i>Gibberula lavalleenana</i>	25.79	0.35
<i>Trypanosyllis parvidentata</i>	25.40	0.35
<i>Prunum apicinum</i>	25.00	0.34
<i>Solemya occidentalis</i>	23.81	0.33
<i>Neanthes acuminata</i>	23.41	0.32
<i>Mulinia lateralis</i>	21.83	0.30

BCB BENTHOS
1995-1997

<i>Shoemakerella cubensis</i>	21.03	0.29
<i>Ophiuroidea</i>	21.03	0.29
<i>Travisia hobsonae</i>	21.03	0.29
<i>Micropholis gracillima</i>	19.84	0.27
<i>Eulimastoma weberi</i>	18.65	0.26
<i>Sabellaria</i> sp. A	18.25	0.25
<i>Chione cancellata</i>	18.25	0.25
<i>Nemertea</i> F	17.46	0.24
<i>Rictaxis punctostriatus</i>	17.46	0.24
<i>Leitoscoloplos fragilis</i>	17.06	0.23
<i>Astris lunulata</i>	17.06	0.23
<i>Isolda pulchella</i>	16.67	0.23
<i>Ampelisca abdita</i>	16.67	0.23
<i>Phoronida</i> sp. B	16.27	0.22
<i>Nassarius vibex</i>	15.87	0.22
<i>Nemertea</i> B	15.87	0.22
<i>Turbellaria</i> sp. A	15.87	0.22
<i>Haminoea antillarum</i>	15.87	0.22
<i>Macoma tenta</i>	15.48	0.21
<i>Cirrophorus</i>	15.48	0.21
<i>Polydora socialis</i>	15.08	0.21
<i>Bemlos unifasciatus</i>	15.08	0.21
<i>Laevicardium mortoni</i>	14.68	0.20
<i>Anomia simplex</i>	14.68	0.20
<i>Nuculana acuta</i>	14.68	0.20
<i>Syllis alternata</i>	14.29	0.20
<i>Paramicrodeutopus</i> cf. <i>myersi</i>	14.29	0.20
<i>Aricidea philbinae</i>	13.89	0.19
<i>Ampelisca</i> sp. C	13.89	0.19
<i>Sthenelais</i> sp. A	13.49	0.19
<i>Kalliapseudes</i> sp. A	13.49	0.19
<i>Nereis lamellosa</i>	13.49	0.19
<i>Megalomma</i> sp.	13.49	0.19
<i>Cirratulus</i> sp.	13.10	0.18
<i>Deutella incerta</i>	13.10	0.18
<i>Capitella jonesi</i>	12.70	0.17
<i>Mediomastus ambiseta</i>	12.70	0.17
<i>Crepidula fornicata</i>	12.70	0.17
<i>Aglaophamus verrilli</i>	12.70	0.17
<i>Aricidea suecica</i>	12.30	0.17
<i>Caulleriella</i> cf. <i>alata</i>	11.51	0.16

BCB BENTHOS
1995-1997

<i>Phoronis ?architecta</i>	11.11	0.15
<i>Nereidae</i>	11.11	0.15
<i>Tellina tampaensis</i>	11.11	0.15
<i>Notomastus latericeus</i>	11.11	0.15
<i>Caulleriella zetlandicus</i>	11.11	0.15
<i>Lumbrineris ernesti</i>	11.11	0.15
<i>Bivalvia</i>	10.71	0.15
<i>Cirriformia</i> sp. C	10.32	0.14
<i>Dyspanopeus texanus</i>	10.32	0.14
<i>Parastarte triquetra</i>	9.92	0.14
<i>Aplysia</i> sp.	9.92	0.14
<i>Cirratulidae</i>	9.92	0.14
<i>Parahesionella luteola</i>	9.52	0.13
<i>Malmgreniella macrariae</i>	9.52	0.13
<i>Megalomma pigmentum</i>	9.52	0.13
<i>Turbonilla</i> cf. dalli	9.52	0.13
<i>Spiochaetopterus costarum</i>	9.13	0.13
<i>Chaetozone</i>	9.13	0.13
<i>Metharpinia floridana</i>	9.13	0.13
<i>Armandia maculata</i>	8.73	0.12
<i>Olivella pusilla</i>	8.73	0.12
<i>Actiniaria</i> sp. B	8.73	0.12
<i>Cerapus</i> sp. C ("tubularis")	8.73	0.12
<i>Amphioplus thrombodes</i>	8.73	0.12
<i>Onuphidae</i>	8.73	0.12
<i>Syllis prolifera</i>	8.73	0.12
<i>Aphelochaeta</i> sp?	8.73	0.12
<i>Diopatra cuprea</i>	8.33	0.11
<i>Podarke obscura</i>	8.33	0.11
<i>Limnodriloides monothecus complex</i>	8.33	0.11
<i>Brachidontes exustus</i>	8.33	0.11
<i>Lumbrineris verrilli</i>	7.94	0.11
<i>Amphioplus sepultus</i> (=abditus)	7.94	0.11
<i>Modulus modulus</i>	7.94	0.11
<i>Nemertea</i> T	7.94	0.11
<i>Erichsonella attenuata</i>	7.54	0.10
<i>Costoanachis semiplicata</i>	7.54	0.10
<i>Notomastus hemipodus</i>	7.54	0.10
<i>Tubificidae</i> w/o cap. setae	7.54	0.10
<i>Abra aequalis</i>	7.54	0.10
<i>Oligochaeta</i> sp. B	7.54	0.10

BCB BENTHOS
1995-1997

<i>Turbonilla hemphilli</i>	6.75	0.09
<i>Paracerceis caudata</i>	6.75	0.09
<i>Pontogenia bartschi</i>	6.35	0.09
<i>Cirriiformia</i>	6.35	0.09
<i>Websternereis tridentata</i>	5.95	0.08
<i>Ascidacea</i>	5.95	0.08
<i>Crepidula</i>	5.95	0.08
<i>Anadara transversa</i>	5.95	0.08
<i>Pista cristata</i>	5.95	0.08
<i>Ophiophragmus filograneus</i>	5.95	0.08
<i>Nemertea K</i>	5.56	0.08
<i>Ceratonereis (?composetia) sp. A</i>	5.56	0.08
<i>Brania wellfleetensis</i>	5.56	0.08
<i>Pinnixa spp.</i>	5.56	0.08
<i>Carditamera floridana</i>	5.56	0.08
<i>Exogone lourei</i>	5.56	0.08
<i>Cylichnella bidentata</i>	5.16	0.07
<i>Amygdalum papyrium</i>	5.16	0.07
<i>Turbonilla conradi</i>	5.16	0.07
<i>Musculus lateralis</i>	5.16	0.07
<i>Aoridae</i>	5.16	0.07
<i>Cyclaspis cf. varians</i>	5.16	0.07
<i>Microeulima hemphilli</i>	4.76	0.07
<i>Capitellidae</i>	4.76	0.07
<i>Pilsbryspira leucoryana</i>	4.76	0.07
<i>Caprellidae-unid.</i>	4.76	0.07
<i>Caulleriella sp. B</i>	4.76	0.07
<i>Amphipholis squamata</i>	4.76	0.07
<i>Transennella conradina</i>	4.76	0.07
<i>Panopeus sp.</i>	4.37	0.06
<i>Oxyurostylis lecroyae</i>	4.37	0.06
<i>Leitoscoloplos robustus</i>	4.37	0.06
<i>Trypanosyllis sp.</i>	4.37	0.06
<i>Aricidea taylora</i>	4.37	0.06

BCB BENTHOS
1995-1997

<i>Schwartziella catesbyana</i>	3.97	0.05
<i>Acanthohauastorius uncinus</i>	3.97	0.05
<i>Paramphinoe</i> sp. B	3.97	0.05
<i>Thalassodrilides gurwitschi</i>	3.97	0.05
<i>Caecum strigosum</i>	3.97	0.05
<i>Notomastus daueri</i>	3.57	0.05
<i>Pinnotheres maculatus</i>	3.57	0.05
<i>Eudevenopus honduranus</i>	3.57	0.05
<i>Heteromastus filiformis</i>	3.57	0.05
<i>Caulleriella</i> sp. A	3.57	0.05
<i>Dentimargo aureocinctus</i>	3.57	0.05
<i>Phyllodoce arenae</i>	3.57	0.05
<i>Caecum pulchellum</i>	3.57	0.05
<i>Macoma constricta</i>	3.57	0.05
<i>Sabaco americanus</i>	3.17	0.04
<i>Bemlos spinicarpus</i>	3.17	0.04
<i>Loimia medusa</i>	3.17	0.04
<i>Prionospio multibranchiata</i>	3.17	0.04
<i>Ceratonereis</i>	3.17	0.04
<i>Sphenia antillensis</i>	3.17	0.04
<i>Conus stearnsi</i>	3.17	0.04
<i>Nereiphylla castanea</i>	3.17	0.04
<i>Nemertea</i> I	3.17	0.04
<i>Sigambra tentaculata</i>	3.17	0.04
<i>Paguroidea</i>	2.78	0.04
<i>Edotia triloba</i>	2.78	0.04
<i>Alpheus</i>	2.78	0.04
<i>Actiniaria</i>	2.78	0.04
<i>Ophelina</i> cf. <i>acuminata</i>	2.78	0.04
<i>Tellidora cristatus</i>	2.78	0.04
<i>Turbellaria</i> sp. B	2.78	0.04
<i>Harrieta faxoni</i>	2.78	0.04
<i>Microprotopus raneyi</i>	2.78	0.04
<i>Scyphoproctus</i>	2.78	0.04
<i>Chaetopterus pergamentaceus</i>	2.78	0.04
<i>Syllis gracilis</i>	2.78	0.04
<i>Ceratonereis irritabilis</i>	2.78	0.04
<i>Sabellaria</i> sp.	2.78	0.04
<i>Nereiphylla fragilis</i>	2.78	0.04
<i>Pinnixa</i> cf. <i>floridana</i>	2.78	0.04
<i>Globosolembos smithi</i>	2.78	0.04
<i>Owenia fusiformis</i>	2.78	0.04
<i>Demonax microphthalma</i>	2.78	0.04

BCB BENTHOS
1995-1997

<i>Bemlos setosus</i>	2.38	0.03
<i>Pagurus macLaughlinae</i>	2.38	0.03
<i>Synaptidae sp. C</i>	2.38	0.03
<i>Holothuroidea</i>	2.38	0.03
<i>Ancistrosyllis jonesi</i>	2.38	0.03
<i>Tubificoides brownae</i>	2.38	0.03
<i>Poecilochaetus johnsoni</i>	2.38	0.03
<i>Glycera americana</i>	2.38	0.03
<i>Syllidae</i>	2.38	0.03
<i>Thalassodrilides eneri</i>	2.38	0.03
<i>Aricidea sp.</i>	2.38	0.03
<i>Psolidae sp. A</i>	2.38	0.03
<i>Actiniaria sp. A</i>	2.38	0.03
<i>Chone cf. americana</i>	2.38	0.03
<i>Monoculodes nyei</i>	2.38	0.03
<i>Polyonyx gibbesi</i>	2.38	0.03
<i>Schistomeringos pectinata</i>	2.38	0.03
<i>Pectinaria gouldii</i>	2.38	0.03
<i>Ampelisca spp.</i>	1.98	0.03
<i>Lumbrineris tenuis</i>	1.98	0.03
<i>Cyclinella tenuis</i>	1.98	0.03
<i>Caecum</i>	1.98	0.03
<i>Tubificoides motei</i>	1.98	0.03
<i>Teinostoma sp.</i>	1.98	0.03
<i>Sphaerosyllis taylori</i>	1.98	0.03
<i>Aricidea quadrilobata</i>	1.98	0.03
<i>Oxyurostylis smithi</i>	1.98	0.03
<i>Tellina iris</i>	1.98	0.03
<i>Tectonatica pusilla</i>	1.98	0.03
<i>Leitoscoloplos</i>	1.98	0.03
<i>Pomatoceros americanus</i>	1.98	0.03
<i>Fabricia sp. A</i>	1.98	0.03
<i>Maldanidae</i>	1.98	0.03
<i>Spio pettiboneae</i>	1.98	0.03
<i>Platynereis dumerilii</i>	1.98	0.03
<i>Cumingia tellinoides vanhuyningi</i>	1.98	0.03
<i>Ancistrosyllis carolinensis</i>	1.98	0.03
<i>Mooreonuphis pallidula</i>	1.98	0.03
<i>Ophioderma brevispina</i>	1.98	0.03

BCB BENTHOS
1995-1997

<i>Ambidexter symmetricus</i>	1.59	0.02
<i>Tellina lineata</i>	1.59	0.02
<i>Dentatisyllis carolinae</i>	1.59	0.02
<i>Opisthosyllis</i> sp. A	1.59	0.02
<i>Sphaerosyllis aciculata</i>	1.59	0.02
<i>Smithsonidrilus</i> sp. A	1.59	0.02
<i>Nereis falsa</i>	1.59	0.02
<i>Prionospio steenstrupi</i>	1.59	0.02
<i>Fabriciinae</i>	1.59	0.02
<i>Anomalocardia auberiana</i>	1.59	0.02
<i>Grubeosyllis</i> sp.	1.59	0.02
<i>Synaptidae</i> sp.	1.59	0.02
<i>Chone</i> sp.	1.59	0.02
<i>Haminoea</i> sp.	1.59	0.02
<i>Tellina alternata</i>	1.59	0.02
<i>Holothuroidea</i> C	1.59	0.02
<i>Pista quadrilobata</i>	1.59	0.02
<i>Processa hemphilli</i>	1.59	0.02
<i>Veneridae</i>	1.59	0.02
<i>Amphiodia</i> nr. <i>riisei</i>	1.59	0.02
<i>Grubeosyllis</i> (<i>Brania</i>) <i>clavata</i>	1.59	0.02
<i>Autolytinae</i>	1.59	0.02
<i>Pagurus</i>	1.59	0.02
<i>Limnodriloides barnardi</i>	1.59	0.02
<i>Pycnogonida</i>	1.59	0.02
<i>Armandia agilis</i>	1.59	0.02
<i>Tagelus plebeius</i>	1.59	0.02
<i>Photis</i> sp. C	1.59	0.02
<i>Laticorophium</i> cf. <i>baconi</i>	1.59	0.02
<i>Streblosoma verrilli</i>	1.59	0.02
<i>Malmgreniella taylori</i>	1.59	0.02
<i>Apocorophium louisianum</i>	1.19	0.02
<i>Sphaerosyllis longicauda</i>	1.19	0.02
<i>Tellina sybaritica</i>	1.19	0.02
<i>Procereae cornuta</i>	1.19	0.02
<i>Caecum nitidum</i>	1.19	0.02
<i>Prionospio cristata</i>	1.19	0.02
<i>Nemertea</i> M	1.19	0.02
<i>Nemertea</i> sp.	1.19	0.02
<i>Lucina</i> ? <i>muricata</i>	1.19	0.02
<i>Cerithium atratum</i>	1.19	0.02
<i>Nemertea</i> R	1.19	0.02

BCB BENTHOS
1995-1997

<i>Asteroidea</i>	1.19	0.02
<i>Ophiophragmus wurdemani</i>	1.19	0.02
<i>Limnodriloides baculatus</i>	1.19	0.02
<i>Marphysa ?sanguinea</i>	1.19	0.02
<i>Amphilochus neopolitanus</i>	1.19	0.02
<i>Microprotopus shoemakeri</i>	1.19	0.02
<i>Scoelelepis texana</i>	1.19	0.02
<i>Glottidia pyramidata</i>	1.19	0.02
<i>Caecum nr. insularum</i>	1.19	0.02
<i>Batea catharinensis</i>	1.19	0.02
<i>Pseudopolydora sp. A</i>	1.19	0.02
<i>Brania sp. A</i>	1.19	0.02
<i>Stellatoma stellata</i>	1.19	0.02
<i>Ampharetidae sp. A</i>	1.19	0.02
<i>Nemertea A</i>	1.19	0.02
<i>Enteropneusta sp. C</i>	1.19	0.02
<i>Dentalium laqueatum</i>	1.19	0.02
<i>Enteropneusta</i>	1.19	0.02
<i>Axiothella sp. A</i>	1.19	0.02
<i>Gammaridea</i>	1.19	0.02
<i>Cylichnella bidentata</i>	1.19	0.02
<i>Smithsonidrilus marina complex</i>	1.19	0.02
<i>Nemertea N</i>	1.19	0.02
<i>Leucothoe spinicarpa</i>	0.79	0.01
<i>Turbonilla constricta</i>	0.79	0.01
<i>Amphicteis gunneri</i>	0.79	0.01
<i>Ancistrosyllis sp. C</i>	0.79	0.01
<i>Lysilla sp.</i>	0.79	0.01
<i>Potamilla sp.</i>	0.79	0.01
<i>Libinia dubia</i>	0.79	0.01
<i>Pinnixa chaetoptera</i>	0.79	0.01
<i>Callichirinae sp.</i>	0.79	0.01
<i>Syllides floriidanus</i>	0.79	0.01
<i>Pettiboneia sp.</i>	0.79	0.01
<i>Megalomma bioculatum</i>	0.79	0.01
<i>Aricidea cf. catherinae</i>	0.79	0.01
<i>Teinostoma ?nesacum</i>	0.79	0.01
<i>Nemertea J</i>	0.79	0.01
<i>Aricidea fragilis</i>	0.79	0.01
<i>Hexapanopeus angustifrons</i>	0.79	0.01
<i>Gyptis crypta</i>	0.79	0.01
<i>Turbonilla sp.</i>	0.79	0.01

BCB BENTHOS
1995-1997

<i>Pitar</i>	0.79	0.01
<i>Notomastus americanus</i>	0.79	0.01
<i>Paranaitis gardineri</i>	0.79	0.01
<i>Dasybranchus lumbricoides</i>	0.79	0.01
<i>Nereiphyllis</i> sp. A	0.79	0.01
<i>Ampelisca abdita/vadorum</i>	0.79	0.01
<i>Cerithium muscarum</i>	0.79	0.01
<i>Anaspidea</i> sp.	0.79	0.01
<i>Myriochele oculata</i>	0.79	0.01
<i>Micropholis atra</i>	0.79	0.01
<i>Potamilla</i> sp. A	0.79	0.01
<i>Pionosyllis</i> sp.	0.79	0.01
<i>Sabella</i> sp. B	0.79	0.01
<i>Thenaria</i>	0.79	0.01
<i>Polyceratidae</i> sp.	0.79	0.01
<i>Kurtziella</i> ? <i>diomedea</i>	0.79	0.01
<i>Arabella multidentata</i>	0.79	0.01
<i>Pyramidella crenulata</i>	0.79	0.01
<i>Ophryotrocha</i> sp.	0.79	0.01
<i>Aricidea lopezi</i>	0.79	0.01
<i>Parapionosyllis longicirrata</i>	0.79	0.01
<i>Sphaerosyllis labyrinthophila</i>	0.79	0.01
<i>Pionosyllis gesae</i>	0.79	0.01
<i>Amphilochus</i> sp. B	0.79	0.01
<i>Cyathura polita</i>	0.79	0.01
<i>Melanella</i> ? <i>intermedia</i>	0.79	0.01
<i>Bemlos</i>	0.79	0.01
<i>Lucina nassula</i>	0.79	0.01
<i>Eulimastoma teres</i>	0.79	0.01
<i>Paraonidae</i>	0.79	0.01
<i>Parvanachis obesa</i>	0.79	0.01
<i>Terebella rubra</i>	0.79	0.01
<i>Marginella apicina</i>	0.79	0.01
<i>Alpheus heterochaelis</i>	0.79	0.01
<i>Brachyura</i>	0.79	0.01
<i>Caulleriella</i>	0.79	0.01
<i>Thraciidae</i>	0.79	0.01
<i>Prionospio</i>	0.79	0.01
<i>Nemertea</i> P	0.79	0.01
<i>Microspio pigmentata</i>	0.79	0.01
<i>Ampelisca vadorum</i>	0.79	0.01

BCB BENTHOS
1995-1997

<i>Cerithiidae</i>	0.40	5.45E-03
<i>Amphipholis</i> sp.	0.40	5.45E-03
<i>Caecum</i> nr. <i>carolinianum</i>	0.40	5.45E-03
<i>Amphioplus sepultus</i> (=abditus)	0.40	5.45E-03
<i>Melinna</i> sp.	0.40	5.45E-03
<i>Serpula</i> sp.	0.40	5.45E-03
<i>Stenothoidae</i> A	0.40	5.45E-03
<i>Phoxocephalidae</i>	0.40	5.45E-03
<i>Erichsonella filiformis</i>	0.40	5.45E-03
<i>Cyrtopleura costata</i>	0.40	5.45E-03
<i>Pinnidae</i>	0.40	5.45E-03
<i>Ampithoidae</i>	0.40	5.45E-03
<i>Parakaketio longipustatus</i>	0.40	5.45E-03
<i>Terebra protexta</i>	0.40	5.45E-03
<i>Aricidea</i> (<i>Allia</i>) sp. A	0.40	5.45E-03
<i>Graptacme eboreum</i>	0.40	5.45E-03
<i>Arabella mutans</i>	0.40	5.45E-03
<i>Limnodriloides rubicundus</i>	0.40	5.45E-03
<i>Limnodriloides vespertinus</i>	0.40	5.45E-03
<i>Oxyurostylis</i>	0.40	5.45E-03
<i>Nannastacidae</i>	0.40	5.45E-03
<i>Ophiolepis elegans</i>	0.40	5.45E-03
<i>Serolis mgrayi</i>	0.40	5.45E-03
<i>Pinnixa</i> sp. D	0.40	5.45E-03
<i>Glycera</i> sp. B	0.40	5.45E-03
<i>Tectidrilus bari</i>	0.40	5.45E-03
<i>Phoronis</i> sp. D	0.40	5.45E-03
<i>Ampithoe</i> ?ramondi	0.40	5.45E-03
<i>Potamilla</i> cf. <i>reniformis</i>	0.40	5.45E-03
<i>Goneplacidae</i>	0.40	5.45E-03
<i>Ensis minor</i>	0.40	5.45E-03
<i>Palaemonidae</i>	0.40	5.45E-03
<i>Tellina</i> ?exerythra	0.40	5.45E-03
<i>Pitho lherminieri</i>	0.40	5.45E-03
<i>Lanassa</i> sp.	0.40	5.45E-03
<i>Almyracuma proximoculi</i>	0.40	5.45E-03
<i>Linga amiantus</i>	0.40	5.45E-03
<i>Sipuncula</i>	0.40	5.45E-03
<i>Ophiophragmus</i>	0.40	5.45E-03
<i>Amphipholis</i> ?subtilis	0.40	5.45E-03
<i>Branchiosyllis exilis</i>	0.40	5.45E-03
<i>Arabella iricolor</i>	0.40	5.45E-03
<i>Parapionosyllis</i> ? sp. A	0.40	5.45E-03

BCB BENTHOS
1995-1997

<i>Latreutes fucorum</i>	0.40	5.45E-03
<i>Holothuroidea</i> sp. B	0.40	5.45E-03
<i>Demonax</i>	0.40	5.45E-03
<i>Dialychone</i> sp?	0.40	5.45E-03
<i>Odontosyllis</i> sp.	0.40	5.45E-03
<i>Caridea</i> -unid.	0.40	5.45E-03
<i>Trachypenaeus constrictus</i>	0.40	5.45E-03
<i>Trachypenaeus</i>	0.40	5.45E-03
<i>Penaeus duorarum</i>	0.40	5.45E-03
<i>Paracaprella pusilla</i>	0.40	5.45E-03
<i>Paracaprella tenuis</i>	0.40	5.45E-03
<i>Paracaprella</i>	0.40	5.45E-03
<i>Caprella penantis</i>	0.40	5.45E-03
<i>Leucon americanus</i>	0.40	5.45E-03
<i>Scyphoproctus</i> sp. A	0.40	5.45E-03
<i>Exogone</i> sp. A	0.40	5.45E-03
<i>Raeta plicatella</i>	0.40	5.45E-03
<i>Graptacme calamus</i>	0.40	5.45E-03
<i>Syllis armillaris</i>	0.40	5.45E-03
<i>Periclimenes americanus</i>	0.40	5.45E-03
<i>Sayella</i> sp.	0.40	5.45E-03
<i>Lysilla</i> nr. sp. A	0.40	5.45E-03
<i>Orbinia riseri</i>	0.40	5.45E-03
<i>Turbonilla incisa</i>	0.40	5.45E-03
<i>Aricidea alisdari</i>	0.40	5.45E-03
<i>Pionosyllis</i> sp. D	0.40	5.45E-03
<i>Terebellidae</i> sp. A	0.40	5.45E-03
<i>Dorvilleidae</i> sp. A	0.40	5.45E-03
<i>Dulichieilla appendiculata</i>	0.40	5.45E-03
<i>Procerae</i> sp. A	0.40	5.45E-03
<i>Autolytus</i> sp.	0.40	5.45E-03
<i>Drilonereis magna</i>	0.40	5.45E-03
<i>Amphiuridae</i>	0.40	5.45E-03
<i>Pyrgocythara plicosa</i>	0.40	5.45E-03
<i>Chaetozone</i> sp. A	0.40	5.45E-03
<i>Lumbrineris</i> sp.	0.40	5.45E-03
<i>Marphysa</i> nr. <i>belli</i>	0.40	5.45E-03
<i>Monocorophium acherusicum</i>	0.40	5.45E-03
<i>Hesione</i> sp.	0.40	5.45E-03
<i>Caulleriella</i> sp. 1	0.40	5.45E-03
<i>Rhodine</i> sp. A	0.40	5.45E-03
<i>Gyptis pluriseta</i>	0.40	5.45E-03
<i>Mooreonuphis</i> sp.	0.40	5.45E-03

BCB BENTHOS
1995-1997

<i>Chaoborus punctipennis</i>	0.40	5.45E-03
<i>Busycotypus spiratus pyruloides</i>	0.40	5.45E-03
<i>Hesperisternia multangula</i>	0.40	5.45E-03
<i>Chone</i> sp. A	0.40	5.45E-03
<i>Costoanachis lafresnayi</i>	0.40	5.45E-03
<i>Hypereteone heteropoda</i>	0.40	5.45E-03
<i>Pinnotheridae</i>	0.40	5.45E-03
<i>Eupleura sulcidentata</i>	0.40	5.45E-03
<i>Echinoidea</i>	0.40	5.45E-03
<i>Pteromeris perplanna</i>	0.40	5.45E-03
<i>Harmothoe</i>	0.40	5.45E-03
<i>Polychaeta</i> sp. 1	0.40	5.45E-03
<i>Pseudopolydora</i> sp. B	0.40	5.45E-03
<i>Syllis</i> sp. B	0.40	5.45E-03
<i>Nereidae</i> genus A	0.40	5.45E-03
<i>Spio</i> sp.	0.40	5.45E-03
<i>Myrianida</i>	0.40	5.45E-03
<i>Melinna maculata</i>	0.40	5.45E-03
<i>Nemertea</i> G	0.40	5.45E-03
<i>Atrina seminuda</i>	0.40	5.45E-03
<i>Nemertea</i> L	0.40	5.45E-03
<i>Ampharetidae</i>	0.40	5.45E-03
<i>Parapionosyllis</i> sp.	0.40	5.45E-03
<i>Cirolana parva</i>	0.40	5.45E-03
<i>Syllides</i> ?fulvus	0.40	5.45E-03
<i>Cirrophorus</i> ?branchiatus	0.40	5.45E-03
<i>Cyclostremiscus suppressus</i>	0.40	5.45E-03
<i>Lumbriclymenae</i> (?Praxillura)	0.40	5.45E-03
<i>Turbellaria</i>	0.40	5.45E-03
<i>Thenaria</i> sp. C	0.40	5.45E-03
<i>Gastropoda</i>	0.40	5.45E-03
<i>Enteropneusta</i> sp. B	0.40	5.45E-03
<i>Clymenella torquata</i>	0.40	5.45E-03
<i>Inanidrilus bulbosus</i>	0.40	5.45E-03
<i>Cnidaria</i> sp. B	0.40	5.45E-03

APPENDIX D

**MEAN ABUNDANCE
AND FREQUENCY OF
OCCURRENCE
OF BENTHIC MACROINVERTEBRATES
IN BOCA CIEGA BAY 1995-1997**

BCB BENTHOS
1995-1997

1995-1997 BOCA CIEGA BAY BENTHOS

<i>Taxa</i>	Mean	Std.Dev.	M / N
	(Divisor = N)		
<i>Cnidaria</i> sp. B	0.40	----	1/ 63
<i>Actiniaria</i>	2.78	15.63	2/ 63
<i>Actiniaria</i> sp. A	2.38	13.99	2/ 63
<i>Actiniaria</i> sp. B	8.73	52.59	3/ 63
<i>Thenaria</i>	0.79	4.42	2/ 63
<i>Thenaria</i> sp. C	0.40	----	1/ 63
<i>Turbellaria</i>	0.40	----	1/ 63
<i>Turbellaria</i> sp. B	2.78	----	1/ 63
<i>Turbellaria</i> sp. A	15.87	36.84	20/ 63
<i>Nemertea</i> sp.	1.19	7.00	2/ 63
<i>Nemertea</i> T	7.94	24.11	7/ 63
<i>Nemertea</i> R	1.19	7.00	2/ 63
<i>Nemertea</i> N	1.19	7.00	2/ 63
<i>Nemertea</i> P	0.79	4.42	2/ 63
<i>Nemertea</i> L	0.40	----	1/ 63
<i>Nemertea</i> M	1.19	7.00	2/ 63
<i>Nemertea</i> G	0.40	----	1/ 63
<i>Nemertea</i> F	17.46	37.74	18/ 63
<i>Nemertea</i> I	3.17	16.49	4/ 63
<i>Nemertea</i> K	5.56	12.25	12/ 63
<i>Nemertea</i> B	15.87	34.58	18/ 63
<i>Nemertea</i> A	1.19	7.00	2/ 63
<i>Nemertea</i> J	0.79	4.42	2/ 63
<i>Polychaeta</i> sp. 1	0.40	----	1/ 63
<i>Harmothoe</i>	0.40	----	1/ 63
<i>Malmgreniella maccrarya</i>	9.52	37.14	9/ 63
<i>Malmgreniella taylori</i>	1.59	6.15	4/ 63
<i>Sthenelais</i> sp. A	13.49	33.55	13/ 63
<i>Paramphinome</i> sp. B	3.97	19.16	3/ 63
<i>Hypereteone heteropoda</i>	0.40	----	1/ 63
<i>Nereiphylla castanea</i>	3.17	22.22	2/ 63
<i>Paranaitis gardineri</i>	0.79	4.42	2/ 63
<i>Nereiphylla fragilis</i>	2.78	14.28	3/ 63
<i>Nereiphyllis</i> sp. A	0.79	4.42	2/ 63
<i>Phyllodoce arenae</i>	3.57	9.90	8/ 63
<i>Gyptis crypta</i>	0.79	----	1/ 63
<i>Gyptis pluriseta</i>	0.40	----	1/ 63
<i>Paraheione luteola</i>	9.52	45.22	5/ 63
<i>Podarke obscura</i>	8.33	20.58	12/ 63

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<i>Hesione</i> sp.	0.40	----	1/ 63
<i>Podarkeopsis levifuscina</i>	57.14	81.00	41/ 63
<i>Ancistrosyllis jonesi</i>	2.38	9.75	4/ 63
<i>Ancistrosyllis carolinensis</i>	1.98	----	1/ 63
<i>Ancistrosyllis</i> sp. C	0.79	----	1/ 63
<i>Sigambra tentaculata</i>	3.17	14.54	4/ 63
<i>Syllidae</i>	2.38	10.73	4/ 63
<i>Autolytinae</i>	1.59	7.61	3/ 63
<i>Autolytus</i> sp.	0.40	----	1/ 63
<i>Procerae</i> sp. A	0.40	----	1/ 63
<i>Procerae</i> cornuta	1.19	7.00	2/ 63
<i>Pionosyllis</i> sp.	0.79	4.42	2/ 63
<i>Pionosyllis gesae</i>	0.79	----	1/ 63
<i>Pionosyllis</i> sp. D	0.40	----	1/ 63
<i>Syllis</i> sp. B	0.40	----	1/ 63
<i>Syllis gracilis</i>	2.78	14.28	3/ 63
<i>Syllis cornuta</i>	31.35	100.20	15/ 63
<i>Trypanosyllis</i> sp.	4.37	31.60	2/ 63
<i>Trypanosyllis parvidentata</i>	25.40	183.08	3/ 63
<i>Syllis alternata</i>	14.29	----	1/ 63
<i>Syllis armillaris</i>	0.40	----	1/ 63
<i>Syllis prolifera</i>	8.73	63.21	2/ 63
<i>Syllis</i> cf. <i>lutea</i>	76.19	257.92	9/ 63
<i>Exogone</i> sp. A	0.40	----	1/ 63
<i>Exogone</i> dispar	59.92	193.31	18/ 63
<i>Exogone lourei</i>	5.56	22.65	4/ 63
<i>Sphaerosyllis aciculata</i>	1.59	9.91	2/ 63
<i>Sphaerosyllis taylori</i>	1.98	10.34	3/ 63
<i>Sphaerosyllis longicauda</i>	1.19	5.37	3/ 63
<i>Sphaerosyllis labyrinthophila</i>	0.79	4.42	2/ 63
<i>Grubeosyllis</i> sp.	1.59	----	1/ 63
<i>Grubeosyllis</i> (<i>Brania</i>) <i>clavata</i>	1.59	6.15	4/ 63
<i>Brania wellfleetensis</i>	5.56	16.46	9/ 63
<i>Brania</i> sp. A	1.19	7.00	2/ 63
<i>Odontosyllis</i> sp.	0.40	----	1/ 63
<i>Syllides</i> ? <i>fulvus</i>	0.40	----	1/ 63
<i>Syllides floriidanus</i>	0.79	----	1/ 63
<i>Parapionosyllis</i> sp.	0.40	----	1/ 63
<i>Parapionosyllis longicirrata</i>	0.79	4.42	2/ 63
<i>Parapionosyllis</i> ? sp. A	0.40	----	1/ 63
<i>Opisthosyllis</i> sp. A	1.59	9.91	2/ 63
<i>Branchiosyllis exilis</i>	0.40	----	1/ 63
<i>Dentatisyllis carolinae</i>	1.59	7.61	3/ 63
<i>Myrianida</i>	0.40	----	1/ 63

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Nereidae	11.11	81.91	3/ 63
Nereidae genus A	0.40	----	1/ 63
Ceratonereis	3.17	----	1/ 63
Ceratonereis irritabilis	2.78	13.55	4/ 63
Ceratonereis (?composetia) sp. A	5.56	----	1/ 63
Neanthes acuminata	23.41	93.64	13/ 63
Nereis falsa	1.59	9.91	2/ 63
Nereis lamellosa	13.49	43.03	9/ 63
Platynereis dumerilii	1.98	----	1/ 63
Laeonereis culveri	91.27	667.72	5/ 63
Websternereis tridentata	5.95	----	1/ 63
Aglaophamus verrilli	12.70	36.72	11/ 63
Glycera americana	2.38	7.40	6/ 63
Glycera sp. B	0.40	----	1/ 63
Glycinde solitaria	26.19	48.66	25/ 63
Onuphidae	8.73	33.04	11/ 63
Mooreonuphis sp.	0.40	----	1/ 63
Mooreonuphis pallidula	1.98	----	1/ 63
Diopatra cuprea	8.33	23.33	11/ 63
Kinbergonuphis simoni	63.10	262.27	8/ 63
Mooreonuphis sp. A	62.70	274.63	10/ 63
Marphysa ?sanguinea	1.19	5.37	3/ 63
Marphysa nr. belli	0.40	----	1/ 63
Lumbrineris sp.	0.40	----	1/ 63
Lumbrineris tenuis	1.98	12.94	2/ 63
Lumbrineris ernesti	11.11	61.69	4/ 63
Lumbrineris verrilli	7.94	28.34	8/ 63
Drilonereis magna	0.40	----	1/ 63
Arabella iricolor	0.40	----	1/ 63
Arabella mutans	0.40	----	1/ 63
Arabella multidentata	0.79	4.42	2/ 63
Dorvilleidae sp. A	0.40	----	1/ 63
Ophryotrocha sp.	0.79	4.42	2/ 63
Schistomeringos pectinata	2.38	----	1/ 63
Schistomeringos cf. rudolphi	32.94	75.78	25/ 63
Pettiboneia sp.	0.79	----	1/ 63
Orbinia riseri	0.40	----	1/ 63
Leitoscoloplos robustus	4.37	20.84	4/ 63
Scoloplos rubra	38.10	124.26	13/ 63
Leitoscoloplos	1.98	8.16	4/ 63
Leitoscoloplos fragilis	17.06	52.71	14/ 63

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<i>Paraonidae</i>	0.79	4.42	2/ 63
<i>Aricidea</i> sp.	2.38	8.65	5/ 63
<i>Aricidea</i> (<i>Allia</i>) sp. A	0.40	----	1/ 63
<i>Aricidea suecica</i>	12.30	63.95	8/ 63
<i>Aricidea</i> cf. <i>catherinae</i>	0.79	----	1/ 63
<i>Aricidea fragilis</i>	0.79	4.42	2/ 63
<i>Aricidea lopezi</i>	0.79	----	1/ 63
<i>Aricidea philbinae</i>	13.89	66.41	6/ 63
<i>Aricidea taylori</i>	4.37	17.70	6/ 63
<i>Aricidea alisdari</i>	0.40	----	1/ 63
<i>Aricidea quadrilobata</i>	1.98	11.27	2/ 63
<i>Cirrophorus</i>	15.48	66.36	7/ 63
<i>Cirrophorus</i> ? <i>lyra</i>	28.57	214.06	5/ 63
<i>Cirrophorus</i> ? <i>branchiatus</i>	0.40	----	1/ 63
<i>Polydora socialis</i>	15.08	38.51	17/ 63
<i>Polydora cornuta</i>	57.14	196.92	15/ 63
<i>Prionospio</i>	0.79	----	1/ 63
<i>Prionospio multibranchiata</i>	3.17	22.22	2/ 63
<i>Prionospio heterobranchia</i>	70.63	182.64	23/ 63
<i>Prionospio steenstrupi</i>	1.59	7.61	3/ 63
<i>Apoprionospio pygmaea</i>	28.17	91.53	22/ 63
<i>Prionospio cristata</i>	1.19	5.37	3/ 63
<i>Prionospio perkinsi</i>	38.10	91.79	21/ 63
<i>Spio</i> sp.	0.40	----	1/ 63
<i>Spio pettiboneae</i>	1.98	9.31	3/ 63
<i>Pseudopolydora</i> sp. A	1.19	7.00	2/ 63
<i>Pseudopolydora</i> sp. B	0.40	----	1/ 63
<i>Paraprionospio pinnata</i>	125.40	226.32	36/ 63
<i>Streblospio benedicti</i>	75.40	247.87	13/ 63
<i>Scolecopsis texana</i>	1.19	5.37	3/ 63
<i>Microspio pigmentata</i>	0.79	----	1/ 63
<i>Carazziella hobsonae</i>	136.90	330.01	21/ 63
<i>Magelona pettiboneae</i>	30.95	72.92	22/ 63
<i>Poecilochaetus johnsoni</i>	2.38	10.73	4/ 63
<i>Chaetopterus pergamentaceus</i>	2.78	12.79	3/ 63
<i>Spiochaetopterus costarum</i>	9.13	30.55	8/ 63
<i>Cirratulidae</i>	9.92	55.27	4/ 63
<i>Cirratulus</i> sp.	13.10	100.79	2/ 63
<i>Caulleriella</i>	0.79	4.42	2/ 63
<i>Caulleriella</i> cf. <i>alata</i>	11.51	35.02	8/ 63
<i>Caulleriella zetlandicus</i>	11.11	61.69	3/ 63
<i>Caulleriella</i> sp. A	3.57	----	1/ 63
<i>Caulleriella</i> sp. 1	0.40	----	1/ 63
<i>Caulleriella</i> sp. B	4.76	34.74	2/ 63

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<i>Aphelochaeta</i> sp?	8.73	35.40	7/ 63
<i>Monticellina dorsobranchialis</i>	197.62	355.28	37/ 63
<i>Chaetozone</i>	9.13	44.97	8/ 63
<i>Chaetozone</i> sp. A	0.40	----	1/ 63
<i>Cirriformia</i>	6.35	36.19	3/ 63
<i>Cirriformia</i> sp. C	10.32	75.75	2/ 63
<i>Cirriformia</i> sp. 1	37.30	136.33	13/ 63
<i>Ophelina</i> cf. <i>acuminata</i>	2.78	14.28	3/ 63
<i>Armandia agilis</i>	1.59	7.61	3/ 63
<i>Armandia maculata</i>	8.73	29.15	7/ 63
<i>Travisia hobsonae</i>	21.03	145.03	5/ 63
<i>Capitellidae</i>	4.76	34.74	2/ 63
<i>Capitella capitata</i>	39.68	116.71	14/ 63
<i>Heteromastus filiformis</i>	3.57	11.76	6/ 63
<i>Notomastus latericeus</i>	11.11	24.91	15/ 63
<i>Notomastus hemipodus</i>	7.54	27.18	8/ 63
<i>Notomastus americanus</i>	0.79	4.42	2/ 63
<i>Notomastus daueri</i>	3.57	----	1/ 63
<i>Mediomastus</i>	30.56	154.47	12/ 63
<i>Mediomastus ambiseta</i>	12.70	43.04	7/ 63
<i>Mediomastus californiensis</i>	88.10	208.97	32/ 63
<i>Capitella jonesi</i>	12.70	63.48	5/ 63
<i>Scyphoproctus</i>	2.78	----	1/ 63
<i>Scyphoproctus</i> sp. A	0.40	----	1/ 63
<i>Maldanidae</i>	1.98	10.34	3/ 63
<i>Sabaco americanus</i>	3.17	13.83	5/ 63
<i>Clymenella torquata</i>	0.40	----	1/ 63
<i>Axiothella mucosa</i>	122.62	364.14	24/ 63
<i>Axiothella</i> sp. A	1.19	7.00	2/ 63
<i>Rhodine</i> sp. A	0.40	----	1/ 63
<i>Dasybranchus lumbricoides</i>	0.79	4.42	2/ 63
<i>Lumbriclymenae</i> (? <i>Praxillura</i>)	0.40	----	1/ 63
<i>Owenia fusiformis</i>	2.78	10.15	5/ 63
<i>Myriochele oculata</i>	0.79	----	1/ 63
<i>Sabellaria</i> sp.	2.78	----	1/ 63
<i>Sabellaria</i> sp. A	18.25	121.91	2/ 63
<i>Pectinaria gouldii</i>	2.38	8.65	5/ 63
<i>Ampharetidae</i>	0.40	----	1/ 63
<i>Ampharetidae</i> sp. A	1.19	5.37	3/ 63
<i>Amphicteis gunneri</i>	0.79	----	1/ 63
<i>Melinna</i> sp.	0.40	----	1/ 63
<i>Melinna maculata</i>	0.40	----	1/ 63
<i>Isolda pulchella</i>	16.67	104.82	6/ 63

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<i>Terebellidae</i> sp. A	0.40	----	1/ 63
<i>Pista cristata</i>	5.95	29.69	4/ 63
<i>Pista quadrilobata</i>	1.59	----	1/ 63
<i>Lanassa</i> sp.	0.40	----	1/ 63
<i>Lysilla</i> sp.	0.79	4.42	2/ 63
<i>Lysilla</i> nr. sp. A	0.40	----	1/ 63
<i>Loimia medusa</i>	3.17	19.31	3/ 63
<i>Terebella rubra</i>	0.79	----	1/ 63
<i>Streblosoma hartmanae</i>	47.22	227.59	6/ 63
<i>Streblosoma verrilli</i>	1.59	----	1/ 63
<i>Chone</i> sp.	1.59	6.15	4/ 63
<i>Chone</i> cf. <i>americana</i>	2.38	10.73	4/ 63
<i>Chone</i> sp. A	0.40	----	1/ 63
<i>Megalomma</i> sp.	13.49	94.59	4/ 63
<i>Megalomma bioculatum</i>	0.79	4.42	2/ 63
<i>Megalomma pigmentum</i>	9.52	25.17	12/ 63
<i>Potamilla</i> sp.	0.79	----	1/ 63
<i>Potamilla</i> cf. <i>reniformis</i>	0.40	----	1/ 63
<i>Sabella</i> sp. B	0.79	4.42	2/ 63
<i>Sabella melanostigma</i>	30.95	146.79	9/ 63
<i>Potamilla</i> sp. A	0.79	----	1/ 63
<i>Fabricia</i> sp. A	1.98	12.94	2/ 63
<i>Fabriciunda trilobata</i>	51.19	169.58	12/ 63
<i>Dialychone</i> sp?	0.40	----	1/ 63
<i>Demonax</i>	0.40	----	1/ 63
<i>Demonax microphthalma</i>	2.78	19.11	2/ 63
<i>Fabriciinae</i>	1.59	9.91	2/ 63
<i>Serpulidae</i>	1077.78	5380.85	5/ 63
<i>Serpula</i> sp.	0.40	----	1/ 63
<i>Pomatoceros americanus</i>	1.98	12.94	2/ 63

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<i>Oligochaeta</i> sp. B	7.54	----	1/ 63
<i>Oligochaeta</i> sp. A	90.48	453.54	3/ 63
Tubificidae	384.13	1152.26	27/ 63
Tubificidae w/o cap. setae	7.54	48.70	2/ 63
<i>Tubificoides</i> <i>motei</i>	1.98	10.34	3/ 63
<i>Limnodriloides</i> <i>vespertinus</i>	0.40	----	1/ 63
<i>Limnodriloides</i> <i>rubicundus</i>	0.40	----	1/ 63
<i>Limnodriloides</i> <i>barnardi</i>	1.59	7.61	3/ 63
<i>Limnodriloides</i> <i>baculatus</i>	1.19	----	1/ 63
<i>Limnodriloides</i> <i>monothecus</i> complex	8.33	----	1/ 63
<i>Tubificoides</i> <i>brownae</i>	2.38	11.63	3/ 63
<i>Tubificoides</i> <i>wasselli</i>	32.14	103.12	12/ 63
<i>Thalassodrilides</i> <i>eneri</i>	2.38	13.25	3/ 63
<i>Thalassodrilides</i> <i>gurwitschi</i>	3.97	----	1/ 63
<i>Tectidrilus</i> <i>bari</i>	0.40	----	1/ 63
<i>Parakakatio</i> <i>longipustatus</i>	0.40	----	1/ 63
<i>Inanidrilus</i> <i>bulbosus</i>	0.40	----	1/ 63
<i>Smithsonidrilus</i> <i>marina</i> complex	1.19	----	1/ 63
<i>Smithsonidrilus</i> sp. A	1.59	----	1/ 63
Gastropoda	0.40	----	1/ 63
<i>Schwartziella</i> <i>catesbyana</i>	3.97	25.48	3/ 63
<i>Teinostoma</i> sp.	1.98	8.16	4/ 63
<i>Teinostoma</i> ? <i>nesacum</i>	0.79	----	1/ 63
<i>Cyclostremiscus</i> <i>suppressus</i>	0.40	----	1/ 63
Caecum	1.98	11.27	2/ 63
Caecum <i>pulchellum</i>	3.57	11.76	7/ 63
Caecum <i>nitidum</i>	1.19	7.00	2/ 63
Caecum <i>strigosum</i>	3.97	----	1/ 63
Caecum nr. <i>insularum</i>	1.19	----	1/ 63
Caecum nr. <i>carolinianum</i>	0.40	----	1/ 63
<i>Modulus</i> <i>modulus</i>	7.94	46.63	3/ 63
Cerithiidae	0.40	----	1/ 63
<i>Cerithium</i> <i>atratum</i>	1.19	----	1/ 63
<i>Bittium</i> <i>varium</i>	157.14	1183.76	8/ 63
<i>Cerithium</i> <i>muscarum</i>	0.79	4.42	2/ 63
<i>Melanella</i> ? <i>intermedia</i>	0.79	4.42	2/ 63
<i>Microeulima</i> <i>hemphilli</i>	4.76	31.70	3/ 63

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<i>Crepidula</i>	5.95	21.40	5/ 63
<i>Crepidula fornicata</i>	12.70	64.89	3/ 63
<i>Crepidula plana</i>	28.57	160.13	8/ 63
<i>Crepidula maculosa</i>	46.43	225.13	7/ 63
<i>Tectonatica pusilla</i>	1.98	8.16	4/ 63
<i>Eupleura sulcidentata</i>	0.40	----	1/ 63
<i>Astris lunulata</i>	17.06	107.56	6/ 63
<i>Parvanachis obesa</i>	0.79	4.42	2/ 63
<i>Costoanachis lafresnayi</i>	0.40	----	1/ 63
<i>Costoanachis semiplicata</i>	7.54	39.05	5/ 63
<i>Hesperisternia multangula</i>	0.40	----	1/ 63
<i>Busycotypus spiratus pyruloides</i>	0.40	----	1/ 63
<i>Nassarius vibex</i>	15.87	47.16	15/ 63
<i>Olivella pusilla</i>	8.73	21.14	12/ 63
<i>Jaspidella blanesi</i>	57.14	94.34	28/ 63
<i>Granulina hadria</i>	32.54	122.20	11/ 63
<i>Dentimargo aureocinctus</i>	3.57	12.59	6/ 63
<i>Gibberula lavalleenana</i>	25.79	98.58	11/ 63
<i>Prunum apicinum</i>	25.00	40.41	26/ 63
<i>Marginella apicina</i>	0.79	----	1/ 63
<i>Kurtziella ?diomedea</i>	0.79	4.42	2/ 63
<i>Pilsbryspira leucoryana</i>	4.76	20.51	6/ 63
<i>Pyrgocythara plicosa</i>	0.40	----	1/ 63
<i>Stellatoma stellata</i>	1.19	7.00	2/ 63
<i>Conus stearnsi</i>	3.17	19.31	3/ 63
<i>Terebra protexta</i>	0.40	----	1/ 63
<i>Eulimastoma weberi</i>	18.65	47.09	14/ 63
<i>Eulimastoma teres</i>	0.79	4.42	2/ 63
<i>Turbonilla sp.</i>	0.79	4.42	2/ 63
<i>Turbonilla conradi</i>	5.16	15.66	9/ 63
<i>Turbonilla cf. dalli</i>	9.52	30.92	12/ 63
<i>Turbonilla hemphilli</i>	6.75	31.82	4/ 63
<i>Turbonilla incisa</i>	0.40	----	1/ 63
<i>Turbonilla constricta</i>	0.79	4.42	2/ 63
<i>Pyramidella crenulata</i>	0.79	4.42	2/ 63
<i>Sayella sp.</i>	0.40	----	1/ 63
<i>Rictaxis punctostriatus</i>	17.46	104.50	7/ 63
<i>Acteocina canaliculata</i>	35.71	69.66	23/ 63
<i>Cylichnella bidentata</i>	1.19	----	1/ 63
<i>Cylichnella bidentata</i>	5.16	37.88	2/ 63
<i>Bulla striata</i>	30.95	151.92	9/ 63
<i>Haminoea sp.</i>	1.59	7.61	3/ 63
<i>Haminoea succinea</i>	35.32	104.60	14/ 63
<i>Haminoea antillarum</i>	15.87	116.60	3/ 63

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<i>Anaspidea</i> sp.	0.79	----	1/ 63
<i>Polyceratidae</i> sp.	0.79	----	1/ 63
<i>Aplysia</i> sp.	9.92	36.90	7/ 63
<i>Acanthopleura granulata</i>	34.52	245.99	5/ 63
<i>Bivalvia</i>	10.71	36.12	8/ 63
<i>Nucula crenulata</i>	25.79	75.13	21/ 63
<i>Nuculana acuta</i>	14.68	42.27	10/ 63
<i>Solemya occidentalis</i>	23.81	76.65	14/ 63
<i>Anadara transversa</i>	5.95	19.94	8/ 63
<i>Musculus lateralis</i>	5.16	22.97	5/ 63
<i>Brachidontes exustus</i>	8.33	40.41	4/ 63
<i>Amygdalum papyrium</i>	5.16	22.97	7/ 63
<i>Pinnidae</i>	0.40	----	1/ 63
<i>Atrina seminuda</i>	0.40	----	1/ 63
<i>Anomia simplex</i>	14.68	69.07	4/ 63
<i>Parvilucina multileneata</i>	98.02	154.20	37/ 63
<i>Lucina nassula</i>	0.79	4.42	2/ 63
<i>Lucina ?muricata</i>	1.19	7.00	2/ 63
<i>Linga amiantus</i>	0.40	----	1/ 63
<i>Diplodonta semiaspera</i>	41.67	90.36	19/ 63
<i>Neaeromya floridana</i>	28.17	107.25	6/ 63
<i>Mysella planulata</i>	107.94	254.19	32/ 63
<i>Mysella</i> sp. A	75.40	282.90	14/ 63
<i>Pteromeris perplanna</i>	0.40	----	1/ 63
<i>Carditamera floridana</i>	5.56	19.28	6/ 63
<i>Laevicardium mortoni</i>	14.68	41.55	17/ 63
<i>Mulinia lateralis</i>	21.83	80.51	14/ 63
<i>Raeta plicatella</i>	0.40	----	1/ 63
<i>Ensis minor</i>	0.40	----	1/ 63
<i>Macoma tenta</i>	15.48	44.09	15/ 63
<i>Macoma constricta</i>	3.57	17.88	3/ 63
<i>Tellina</i> sp.	205.56	351.02	43/ 63
<i>Tellina iris</i>	1.98	9.31	3/ 63
<i>Tellina lineata</i>	1.59	6.15	4/ 63
<i>Tellina versicolor</i>	80.16	221.17	26/ 63
<i>Tellina alternata</i>	1.59	7.61	3/ 63
<i>Tellina tampaensis</i>	11.11	48.52	6/ 63
<i>Tellina sybaritica</i>	1.19	----	1/ 63
<i>Tellina ?exerythra</i>	0.40	----	1/ 63
<i>Tellidora cristatus</i>	2.78	9.10	6/ 63
<i>Tagelus plebeius</i>	1.59	----	1/ 63
<i>Tagelus divisus</i>	26.59	78.14	15/ 63
<i>Abra aequalis</i>	7.54	22.29	8/ 63
<i>Cumingia tellinoides vanhyningi</i>	1.98	----	1/ 63

BCB BENTHOS
1995-1997

<i>Veneridae</i>	1.59	9.91	2/ 63
<i>Cyclinella tenuis</i>	1.98	10.34	3/ 63
<i>Transennella conradina</i>	4.76	20.99	5/ 63
<i>Pitar</i>	0.79	4.42	2/ 63
<i>Chione cancellata</i>	18.25	47.77	15/ 63
<i>Anomalocardia auberiana</i>	1.59	7.61	3/ 63
<i>Parastarte triquetra</i>	9.92	33.46	8/ 63
<i>Sphenia antillensis</i>	3.17	10.52	6/ 63
<i>Corbula contracta</i>	28.57	119.80	12/ 63
<i>Cyrtopleura costata</i>	0.40	----	1/ 63
<i>Lyonsia hyalina floridana</i>	26.98	75.44	14/ 63
<i>Thraciidae</i>	0.79	----	1/ 63
<i>Asthenothaerus hemphilli</i>	29.37	101.95	12/ 63
<i>Graptacme eboreum</i>	0.40	----	1/ 63
<i>Graptacme calamus</i>	0.40	----	1/ 63
<i>Dentalium laqueatum</i>	1.19	5.37	3/ 63
<i>Pycnogonida</i>	1.59	7.61	3/ 63
<i>Cirripedia</i>	64.68	478.35	9/ 63
<i>Leucon americanus</i>	0.40	----	1/ 63
<i>Oxyurostylis</i>	0.40	----	1/ 63
<i>Oxyurostylis smithi</i>	1.98	8.16	4/ 63
<i>Oxyurostylis lecroyae</i>	4.37	26.00	3/ 63
<i>Nannastacidae</i>	0.40	----	1/ 63
<i>Almyracuma proximoculi</i>	0.40	----	1/ 63
<i>Cyclaspis cf. varians</i>	5.16	19.65	6/ 63
<i>Kalliapseudes sp. A</i>	13.49	33.85	12/ 63
<i>Leptochelia</i>	194.44	1129.78	14/ 63
<i>Cyathura polita</i>	0.79	----	1/ 63
<i>Amakusanthura magnifica</i>	32.14	61.96	23/ 63
<i>Cirolana parva</i>	0.40	----	1/ 63
<i>Paracerceis caudata</i>	6.75	23.42	6/ 63
<i>Harrieta faxoni</i>	2.78	16.26	3/ 63
<i>Serolis mgrayi</i>	0.40	----	1/ 63
<i>Erichsonella attenuata</i>	7.54	34.38	5/ 63
<i>Erichsonella filiformis</i>	0.40	----	1/ 63
<i>Edotia triloba</i>	2.78	9.10	6/ 63

BCB BENTHOS
1995-1997

<i>Gammaridea</i>	1.19	5.37	3/ 63
<i>Ampelisca</i> spp.	1.98	6.81	5/ 63
<i>Ampelisca abdita</i>	16.67	62.86	11/ 63
<i>Ampelisca vadorum</i>	0.79	----	1/ 63
<i>Ampelisca holmesi</i>	27.38	63.93	19/ 63
<i>Ampelisca</i> sp. C	13.89	29.71	14/ 63
<i>Ampelisca abdita/vadorum</i>	0.79	----	1/ 63
<i>Amphilocheus neopolitanus</i>	1.19	7.00	2/ 63
<i>Amphilocheus</i> sp. B	0.79	----	1/ 63
<i>Ampithoidae</i>	0.40	----	1/ 63
<i>Ampithoe longimana</i>	33.33	153.78	4/ 63
<i>Ampithoe ?ramondi</i>	0.40	----	1/ 63
<i>Cymadusa compta</i>	79.37	249.21	15/ 63
<i>Aoridae</i>	5.16	24.66	4/ 63
<i>Globosolembos smithi</i>	2.78	16.87	2/ 63
<i>Bemlos spinicarpus</i>	3.17	12.29	5/ 63
<i>Bemlos unifasciatus</i>	15.08	63.11	8/ 63
<i>Bemlos setosus</i>	2.38	----	1/ 63
<i>Paramicrodeutopus</i> cf. <i>myersi</i>	14.29	64.24	8/ 63
<i>Bemlos</i>	0.79	----	1/ 63
<i>Batea catharinensis</i>	1.19	----	1/ 63
<i>Cerapus</i> sp. C ("tubularis")	8.73	39.44	8/ 63
<i>Monocorophium acherusicum</i>	0.40	----	1/ 63
<i>Monocorophium tuberculatum</i>	110.32	828.30	4/ 63
<i>Laticorophium</i> cf. <i>baconi</i>	1.59	7.61	3/ 63
<i>Apocorophium louisianum</i>	1.19	7.00	2/ 63
<i>Americorophium ellisi</i>	45.24	----	1/ 63
<i>Erichthonius brasiliensis</i>	33.73	106.84	13/ 63
<i>Grandidierella bonnieroides</i>	35.71	175.67	10/ 63
<i>Pontogenia bartschi</i>	6.35	35.35	5/ 63
<i>Elasmopus laevis</i>	26.98	106.09	8/ 63
<i>Dulichchiella appendiculata</i>	0.40	----	1/ 63
<i>Melita elongata</i>	57.14	339.55	4/ 63
<i>Acanthohaustorius uncinus</i>	3.97	19.16	3/ 63
<i>Photis</i> sp. C	1.59	9.91	2/ 63
<i>Microprotopus raneyi</i>	2.78	13.55	4/ 63
<i>Microprotopus shoemakeri</i>	1.19	5.37	3/ 63
<i>Leucothoe spinicarpa</i>	0.79	4.42	2/ 63
<i>Listriella barnardi</i>	52.38	101.87	26/ 63
<i>Shoemakerella cubensis</i>	21.03	122.82	5/ 63
<i>Monoculodes nyei</i>	2.38	8.65	5/ 63
<i>Phoxocephalidae</i>	0.40	----	1/ 63
<i>Metharpinia floridana</i>	9.13	44.97	3/ 63
<i>Eudevenopus honduranus</i>	3.57	18.44	3/ 63
<i>Stenothoidae</i> A	0.40	----	1/ 63

BCB BENTHOS
1995-1997

<i>Caprellidae-unid.</i>	4.76	24.53	3/ 63
<i>Deutella incerta</i>	13.10	40.13	9/ 63
<i>Caprella penantis</i>	0.40	----	1/ 63
<i>Paracaprella</i>	0.40	----	1/ 63
<i>Paracaprella tenuis</i>	0.40	----	1/ 63
<i>Paracaprella pusilla</i>	0.40	----	1/ 63
<i>Penaeus duorarum</i>	0.40	----	1/ 63
<i>Trachypenaeus</i>	0.40	----	1/ 63
<i>Trachypenaeus constrictus</i>	0.40	----	1/ 63
<i>Caridea-unid.</i>	0.40	----	1/ 63
<i>Palaemonidae</i>	0.40	----	1/ 63
<i>Periclimenes americanus</i>	0.40	----	1/ 63
<i>Alpheus</i>	2.78	14.28	3/ 63
<i>Alpheus heterochaelis</i>	0.79	4.42	2/ 63
<i>Latreutes fucorum</i>	0.40	----	1/ 63
<i>Processa hemphilli</i>	1.59	6.15	4/ 63
<i>Ambidexter symmetricus</i>	1.59	9.91	2/ 63
<i>Callichirinae sp.</i>	0.79	4.42	2/ 63
<i>Paguroidea</i>	2.78	9.10	6/ 63
<i>Pagurus</i>	1.59	8.84	2/ 63
<i>Pagurus maccloughlinae</i>	2.38	10.73	4/ 63
<i>Polyonyx gibbesi</i>	2.38	16.01	2/ 63
<i>Brachyura</i>	0.79	4.42	2/ 63
<i>Libinia dubia</i>	0.79	----	1/ 63
<i>Pitho lherminieri</i>	0.40	----	1/ 63
<i>Hexapanopeus angustifrons</i>	0.79	----	1/ 63
<i>Panopeus sp.</i>	4.37	20.35	5/ 63
<i>Dyspanopeus texanus</i>	10.32	78.75	2/ 63
<i>Goneplacidae</i>	0.40	----	1/ 63
<i>Pinnotheridae</i>	0.40	----	1/ 63
<i>Pinnotheres maculatus</i>	3.57	----	1/ 63
<i>Pinnixa spp.</i>	5.56	13.80	11/ 63
<i>Pinnixa chaetoptera</i>	0.79	----	1/ 63
<i>Pinnixa cf. floridana</i>	2.78	13.55	3/ 63
<i>Pinnixa sp. D</i>	0.40	----	1/ 63
<i>Chaoborus punctipennis</i>	0.40	----	1/ 63
<i>Sipuncula</i>	0.40	----	1/ 63
<i>Phascolion crypta</i>	36.11	64.25	25/ 63
<i>Phoronis ?architecta</i>	11.11	30.38	11/ 63
<i>Phoronis sp. D</i>	0.40	----	1/ 63
<i>Phoronida sp. B</i>	16.27	61.59	8/ 63
<i>Glottidia pyramidata</i>	1.19	5.37	3/ 63

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1995-1997

Asteroidea	1.19	----	1/ 63
Ophiuroidea	21.03	44.95	20/ 63
Ophiolepis elegans	0.40	----	1/ 63
Ophioderma brevispina	1.98	----	1/ 63
Amphiuridae	0.40	----	1/ 63
Amphiodia nr. riisei	1.59	----	1/ 63
Amphipholis sp.	0.40	----	1/ 63
Amphipholis squamata	4.76	23.27	5/ 63
Amphipholis ?subtilis	0.40	----	1/ 63
Ophiophragmus	0.40	----	1/ 63
Ophiophragmus wurdemani	1.19	5.37	3/ 63
Ophiophragmus filograneus	5.95	22.32	7/ 63
Amphioplus sepultus (=abditus)	7.94	36.43	3/ 63
Amphioplus thrombodes	8.73	46.04	5/ 63
Amphioplus sepultus (=abditus)	0.40	----	1/ 63
Micropholis atra	0.79	----	1/ 63
Micropholis gracillima	19.84	70.88	12/ 63
Echinoidea	0.40	----	1/ 63
Holothuroidea	2.38	11.63	3/ 63
Holothuroidea sp. B	0.40	----	1/ 63
Holothuroidea C	1.59	9.91	2/ 63
Psolidae sp. A	2.38	11.63	3/ 63
Synaptidae sp.	1.59	7.61	3/ 63
Synaptidae sp. A	76.59	563.49	7/ 63
Synaptidae sp. C	2.38	13.99	2/ 63
Enteropneusta	1.19	----	1/ 63
Enteropneusta sp. B	0.40	----	1/ 63
Enteropneusta sp. C	1.19	5.37	3/ 63
Ascidacea	5.95	----	1/ 63
Branchiostoma floridae	38.89	151.06	11/ 63

APPENDIX E

COMPOSITION AND ABUNDANCE OF BENTHIC MACROINVERTEBRATES, BY STATION, IN BOCA CIEGA BAY 1997

Project =1997 TAMPA BAY BENTHOS
 Location =BOCA CIEGA BAY
 Date =SEPT-OCT 97
 Name =97BCB02
 Replicate =1

Sample Characteristics

Number of Species : 42
 Density of All Species : 4575.00 /M2
 Diversity (Hprime -log base 2) : 4.66
 Evenness (Hprime/Hmax) : 0.86

Taxa	Observed	Percentage
Nemertea T	75.00	1.64
Podarke obscura	25.00	0.55
Podarkeopsis levifuscina	275.00	6.01
Syllis cornuta	75.00	1.64
Laeonereis culveri	50.00	1.09
Glycera americana	25.00	0.55
Glycinde solitaria	50.00	1.09
Leitoscoloplos robustus	150.00	3.28
Scoloplos rubra	525.00	11.48
Aricidea suecica	25.00	0.55
Aricidea philbinae	25.00	0.55
Aricidea taylori	50.00	1.09
Polydora socialis	25.00	0.55
Prionospio perkinsi	100.00	2.19
Paraprionospio pinnata	25.00	0.55
Streblospio benedicti	550.00	12.02
Carazziella hobsonae	25.00	0.55
Magelona pettiboneae	50.00	1.09
Monticellina dorsobranchialis	75.00	1.64
Mediomastus californiensis	125.00	2.73
Owenia fusiformis	25.00	0.55
Tubificidae	250.00	5.46
Tubificoides wasselli	50.00	1.09
Olivella pusilla	100.00	2.19
Jaspidella blanesi	175.00	3.83
Prunum apicinum	25.00	0.55
Parvilucina multilinea	25.00	0.55
Lucina nassula	25.00	0.55
Diplodonta semiaspera	25.00	0.55
Neaeromya floridana	225.00	4.92
Mysella planulata	425.00	9.29
Tellina sp.	50.00	1.09
Tellina lineata	25.00	0.55
Tellina versicolor	175.00	3.83
Tagelus divisus	100.00	2.19
Parastarte triquetra	75.00	1.64
Amakusanthura magnifica	100.00	2.19
Edotia triloba	25.00	0.55
Ampelisca holmesi	75.00	1.64
Phascolion crypta	50.00	1.09
Phoronida sp. B	25.00	0.55
Ophiuroidea	25.00	0.55
Ophiophragmus filograneus	150.00	3.28
Micropholis gracillima	25.00	0.55

1997 BOCA CIEGA BAY BENTHOS: RUN DATE 21 AUG 98

Project	=1997 TAMPA BAY BENTHOS
Location	=BOCA CIEGA BAY
Date	=SEPT-OCT 97
Name	=96BCB08

Sample Characteristics

Number of Species	:	30
Density of All Species	:	5250.00 /M2
Diversity (Hprime -log base 2)	:	3.98
Evenness (Hprime/Hmax)	:	0.81

Taxa	Observed	Percentage
<i>Malmgreniella maccrariae</i>	75.00	1.43
<i>Podarkeopsis levifuscina</i>	25.00	0.48
<i>Aglaophamus verrilli</i>	25.00	0.48
<i>Schistomeringos cf. rudolphi</i>	100.00	1.90
<i>Cirrophorus</i>	25.00	0.48
<i>Prionospio cristata</i>	25.00	0.48
<i>Prionospio perkinsi</i>	300.00	5.71
<i>Paraprionospio pinnata</i>	75.00	1.43
<i>Streblospio benedicti</i>	425.00	8.10
<i>Carazziella hobsonae</i>	450.00	8.57
<i>Monticellina dorsobranchialis</i>	1125.00	21.43
<i>Notomastus latericeus</i>	50.00	0.95
<i>Mediomastus</i>	25.00	0.48
<i>Mediomastus ambiseta</i>	75.00	1.43
<i>Mediomastus californiensis</i>	100.00	1.90
<i>Pectinaria gouldii</i>	50.00	0.95
<i>Tubificidae</i>	825.00	15.71
<i>Tubificoides wasselli</i>	200.00	3.81
<i>Nuculana acuta</i>	125.00	2.38
<i>Solemya occidentalis</i>	25.00	0.48
<i>Parvilucina multilineata</i>	75.00	1.43
<i>Neaeromya floridana</i>	25.00	0.48
<i>Mysella planulata</i>	125.00	2.38
<i>Macoma tenta</i>	100.00	1.90
<i>Tellina versicolor</i>	325.00	6.19
<i>Tellidora cristatus</i>	25.00	0.48
<i>Chione cancellata</i>	100.00	1.90
<i>Corbula contracta</i>	100.00	1.90
<i>Asthenothaerus hemphilli</i>	25.00	0.48
<i>Listriella barnardi</i>	50.00	0.95
<i>Ophiuroidea</i>	25.00	0.48
<i>Micropholis gracillima</i>	150.00	2.86

1997 BOCA CIEGA BAY BENTHOS: RUN DATE 24 AUG 98

Project =1997 TAMPA BAY BENTHOS
 Location =BOCA CIEGA BAY
 Date =SEPT-OCT 97
 Name =97BCB10
 Replicate =1

Sample Characteristics

Number of Species : 27
 Density of All Species : 18100.00 /M2
 Diversity (Hprime -log base 2) : 2.57
 Evenness (Hprime/Hmax) : 0.54

Taxa	Observed	Percentage
<i>Turbellaria</i> sp. A	25.00	0.14
<i>Parahelesione luteola</i>	25.00	0.14
<i>Laeonereis culveri</i>	5300.00	29.28
<i>Polydora socialis</i>	50.00	0.28
<i>Polydora cornuta</i>	175.00	0.97
<i>Prionospio heterobranchia</i>	25.00	0.14
<i>Paraprionospio pinnata</i>	50.00	0.28
<i>Streblospio benedicti</i>	1150.00	6.35
<i>Monticellina dorsobranchialis</i>	275.00	1.52
<i>Capitella capitata</i>	550.00	3.04
<i>Notomastus latericeus</i>	50.00	0.28
<i>Notomastus hemipodus</i>	100.00	0.55
<i>Amphicteis gunneri</i>	50.00	0.28
<i>Tubificidae</i>	25.00	0.14
<i>Acteocina canaliculata</i>	175.00	0.97
<i>Tagelus plebeius</i>	100.00	0.55
<i>Anomalocardia auberiana</i>	25.00	0.14
<i>Parastarte triquetra</i>	100.00	0.55
<i>Sphenia antillensis</i>	25.00	0.14
<i>Almyracuma proximoculi</i>	25.00	0.14
<i>Leptochelia</i>	125.00	0.69
<i>Cyathura polita</i>	50.00	0.28
<i>Edotia triloba</i>	25.00	0.14
<i>Monocorophium tuberculatum</i>	6575.00	36.33
<i>Americorophium ellisi</i>	2850.00	15.75
<i>Grandidierella bonnieroides</i>	125.00	0.69
<i>Phascolion crypta</i>	50.00	0.28

1997 BOCA CIEGA BAY BENTHOS: RUN DATE 21 AUG 98

Project -1997 TAMPA BAY BENTHOS
 Location -BOCA CIEGA BAY
 Date -SEPT-OCT 97
 Name -97BCB13

Sample Characteristics

Number of Species : 56
 Density of All Species : 3975.00 /M2
 Diversity (Hprime -log base 2) : 5.18
 Evenness (Hprime/Hmax) : 0.89

Taxa	Observed	Percentage
Nemertea T	75.00	1.89
Harmothoe	25.00	0.63
Nereiphylla castanea	175.00	4.40
Hesione sp.	25.00	0.63
Podarkeopsis levifusca	25.00	0.63
Exogone dispar	50.00	1.26
Diopatra cuprea	125.00	3.14
Polydora socialis	75.00	1.89
Aphelochaeta sp?	75.00	1.89
Monticellina dorsobranchialis	25.00	0.63
Chaetozone	50.00	1.26
Capitella capitata	25.00	0.63
Mediomastus californiensis	25.00	0.63
Sabaco americanus	25.00	0.63
Sabellaria sp.	100.00	2.52
Serpula sp.	25.00	0.63
Gastropoda	25.00	0.63
Schwartziella catesbyana	25.00	0.63
Caecum pulchellum	25.00	0.63
Cerithium atratum	75.00	1.89
Bittium varium	250.00	6.29
Crepidula	50.00	1.26
Astris lunulata	75.00	1.89
Costoanachis lafresnayi	25.00	0.63
Nassarius vibex	325.00	8.18
Olivella pusilla	50.00	1.26
Jaspidella blanesi	125.00	3.14
Granulina hadria	25.00	0.63
Prunum apicinum	125.00	3.14
Turbonilla conradi	25.00	0.63
Turbonilla cf. dalli	50.00	1.26
Acteocina canaliculata	275.00	6.92
Nucula crenulata	25.00	0.63
Solemya occidentalis	25.00	0.63
Anadara transversa	25.00	0.63
Parvilucina multilineata	200.00	5.03
Linga amiantus	25.00	0.63
Tellina sp.	250.00	6.29
Tellina versicolor	150.00	3.77
Tellidora cristatus	25.00	0.63
Chione cancellata	125.00	3.14
Dentalium laqueatum	25.00	0.63

1997 BOCA CIEGA BAY BENTHOS: RUN DATE 21 AUG 98

Project =1997 TAMPA BAY BENTHOS
 Location =BOCA CIEGA BAY
 Date =SEPT-OCT 97
 Name =97BCB13- CONTINUED

<i>Edotia triloba</i>	25.00	0.63
<i>Bemlos unifasciatus</i>	50.00	1.26
<i>Paramicrodeutopus cf. myersi</i>	25.00	0.63
<i>Erichthonius brasiliensis</i>	25.00	0.63
<i>Grandidierella bonnieroides</i>	75.00	1.89
<i>Elasmopus laevis</i>	100.00	2.52
<i>Microprotopus raneyi</i>	25.00	0.63
<i>Deutella incerta</i>	75.00	1.89
<i>Trachypenaeus</i>	25.00	0.63
<i>Synalpheus sp.</i>	50.00	1.26
<i>Ambidexter symmetricus</i>	25.00	0.63
<i>Paguroidea</i>	25.00	0.63
<i>Pagurus</i>	50.00	1.26
<i>Pinnotheridae</i>	25.00	0.63
<i>Ophiolepis elegans</i>	25.00	0.63

Project =1997 TAMPA BAY BENTHOS
 Location =BOCA CIEGA BAY
 Name =97BCB17

Sample Characteristics

Number of Species : 43
 Density of All Species : 7100.00 /M2
 Diversity (Hprime -log base 2) : 4.21
 Evenness (Hprime/Hmax) : 0.78

Taxa	Observed	Percentage
<i>Nemertea T</i>	100.00	1.41
<i>Nemertea I</i>	25.00	0.35
<i>Nemertea K</i>	25.00	0.35
<i>Malmgreniella maccrarya</i>	25.00	0.35
<i>Podarke obscura</i>	25.00	0.35
<i>Podarkeopsis levifuscina</i>	25.00	0.35
<i>Syllis cornuta</i>	25.00	0.35
<i>Glycinde solitaria</i>	25.00	0.35
<i>Kinbergonuphis simoni</i>	350.00	4.93
<i>Schistomeringos cf. rudolphi</i>	75.00	1.06
<i>Pettiboneia sp.</i>	50.00	0.70
<i>Aricidea suecica</i>	25.00	0.35
<i>Cirrophorus</i>	300.00	4.23
<i>Polydora socialis</i>	75.00	1.06
<i>Prionospio heterobranchia</i>	275.00	3.87
<i>Apoprionospio pygmaea</i>	100.00	1.41
<i>Prionospio perkinsi</i>	50.00	0.70
<i>Paraprionospio pinnata</i>	50.00	0.70
<i>Streblospio benedicti</i>	1325.00	18.66
<i>Carazziella hobsonae</i>	75.00	1.06
<i>Magelona pettiboneae</i>	25.00	0.35
<i>Cirratulidae</i>	100.00	1.41
<i>Caulleriella cf. alata</i>	150.00	2.11
<i>Caulleriella zetlandicus</i>	425.00	5.99
<i>Aphelochaeta sp?</i>	25.00	0.35
<i>Notomastus latericeus</i>	25.00	0.35
<i>Mediomastus</i>	25.00	0.35
<i>Mediomastus ambiseta</i>	50.00	0.70
<i>Mediomastus californiensis</i>	1450.00	20.42
<i>Axiiothella mucosa</i>	125.00	1.76
<i>Branchiomma sp?</i>	50.00	0.70
<i>Megalomma sp.</i>	50.00	0.70
<i>Fabriciunda trilobata</i>	175.00	2.46
<i>Tubificidae</i>	325.00	4.58
<i>Turbonilla cf. dalli</i>	25.00	0.35
<i>Pyramidella crenulata</i>	25.00	0.35
<i>Acteocina canaliculata</i>	50.00	0.70
<i>Neaeromya floridana</i>	275.00	3.87
<i>Laevicardium mortoni</i>	50.00	0.70
<i>Tellina sp.</i>	125.00	1.76
<i>Tellina versicolor</i>	75.00	1.06
<i>Chione cancellata</i>	25.00	0.35
<i>Ampelisca holmesi</i>	250.00	3.52
<i>Amphioplus sepultus (=abditus)</i>	125.00	1.76
<i>Micropholis gracillima</i>	25.00	0.35
<i>Holothuroidea C</i>	75.00	1.06

Project	=1997 TAMPA BAY BENTHOS
Location	=BOCA CIEGA BAY
Date	=SEPT-OCT 97
Name	=97BCB18

Sample Characteristics

Number of Species	:	59
Density of All Species	:	6200.00 /M2
Diversity (Hprime -log base 2)	:	4.60
Evenness (Hprime/Hmax)	:	0.78

Taxa	Observed	Percentage
<i>Turbellaria</i> sp. A	25.00	0.40
<i>Nemertea</i> N	50.00	0.81
<i>Nemertea</i> K	50.00	0.81
<i>Nemertea</i> B	50.00	0.81
<i>Malmgreniella maccrarya</i>	25.00	0.40
<i>Malmgreniella taylori</i>	25.00	0.40
<i>Sthenelais</i> sp. A	25.00	0.40
<i>Nereiphylla castanea</i>	25.00	0.40
<i>Podarkeopsis levifuscina</i>	150.00	2.42
<i>Aglaophamus verrilli</i>	75.00	1.21
<i>Glycinde solitaria</i>	25.00	0.40
<i>Mooreonuphis</i> sp.	25.00	0.40
<i>Lumbrineris verrilli</i>	25.00	0.40
<i>Schistomeringos</i> cf. <i>rudolphi</i>	25.00	0.40
<i>Cirrophorus</i>	75.00	1.21
<i>Prionospio heterobranchia</i>	25.00	0.40
<i>Apoprionospio pygmaea</i>	100.00	1.61
<i>Prionospio perkinsi</i>	25.00	0.40
<i>Spio</i> sp.	25.00	0.40
<i>Paraprionospio pinnata</i>	50.00	0.81
<i>Notomastus hemipodus</i>	75.00	1.21
<i>Mediomastus</i>	225.00	3.63
<i>Mediomastus californiensis</i>	275.00	4.44
<i>Maldanidae</i>	25.00	0.40
<i>Isolda pulchella</i>	125.00	2.02
<i>Loimia medusa</i>	25.00	0.40
<i>Chone</i> sp.	25.00	0.40
<i>Megalomma pigmentum</i>	50.00	0.81
<i>Potamilla</i> cf. <i>reniformis</i>	25.00	0.40
<i>Fabriciunda trilobata</i>	1100.00	17.74
<i>Tubificoides wasselli</i>	50.00	0.81
<i>Inanidrillus bulbosus</i>	25.00	0.40
<i>Melanella ?intermedia</i>	25.00	0.40
<i>Nassarius vibex</i>	25.00	0.40
<i>Jaspidella blanesi</i>	450.00	7.26
<i>Prunum apicinum</i>	25.00	0.40

Project	=1997 TAMPA BAY BENTHOS
Location	=BOCA CIEGA BAY
Date	=SEPT-OCT 97
Name	=97BCB18-CONTINUED

<i>Bivalvia</i>	75.00	1.21
<i>Nucula crenulata</i>	50.00	0.81
<i>Solemya occidentalis</i>	25.00	0.40
<i>Parvilucina multilineata</i>	50.00	0.81
<i>Diplodonta semiaspera</i>	50.00	0.81
<i>Mysella planulata</i>	150.00	2.42
<i>Pteromeris perplanna</i>	25.00	0.40
<i>Macoma tenta</i>	25.00	0.40
<i>Tellina</i> sp.	100.00	1.61
<i>Tellina iris</i>	50.00	0.81
<i>Tellina versicolor</i>	300.00	4.84
<i>Abra aequalis</i>	50.00	0.81
<i>Transennella conradina</i>	25.00	0.40
<i>Chione cancellata</i>	50.00	0.81
<i>Lyonsia hyalina floridana</i>	25.00	0.40
<i>Asthenothaerus hemphilli</i>	25.00	0.40
<i>Kalliapseudes</i> sp. A	150.00	2.42
<i>Leptochelia</i>	25.00	0.40
<i>Amakusanthura magnifica</i>	125.00	2.02
<i>Ampelisca</i> spp.	25.00	0.40
<i>Ampelisca holmesi</i>	50.00	0.81
<i>Ampelisca</i> sp. C	50.00	0.81
<i>Listriella barnardi</i>	25.00	0.40
<i>Pinnixa</i> spp.	25.00	0.40
<i>Ophiuroidea</i>	100.00	1.61
<i>Micropholis gracillima</i>	100.00	1.61
<i>Holothuroidea</i> C	25.00	0.40
<i>Branchiostoma floridae</i>	975.00	15.73

1997 BOCA CIEGA BAY BENTHOS: RUN DATE 21 AUG 98

Project =1997 TAMPA BAY BENTHOS
 Location =BOCA CIEGA BAY
 Date =SEPT-OCT 97
 Name =97BCB27

Sample Characteristics

Number of Species	:	0
Density of All Species	:	0.00 /M2
Diversity (Hprime -log base 2)	:	0.00
Evenness (Hprime/Hmax)	:	0.00

Taxa	Observed	Percentage
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Name -97BCB30

Sample Characteristics

Number of Species	:	48
Density of All Species	:	6350.00 /M2
Diversity (Hprime -log base 2)	:	4.53
Evenness (Hprime/Hmax)	:	0.80

Taxa	Observed	Percentage
Nemertea K	25.00	0.39
Nemertea B	75.00	1.18
Phyllodoce arenae	25.00	0.39
Syllis cornuta	25.00	0.39
Syllides ?fulvus	25.00	0.39
Glycinde solitaria	100.00	1.57
Onuphidae	50.00	0.79
Lumbrineris sp.	25.00	0.39
Leitoscoloplos	25.00	0.39
Polydora socialis	50.00	0.79
Apoprionospio pygmaea	75.00	1.18
Prionospio perkinsi	50.00	0.79
Paraprionospio pinnata	225.00	3.54
Streblospio benedicti	50.00	0.79
Poecilochaetus johnsoni	25.00	0.39
Aphelochaeta sp?	25.00	0.39
Armandia maculata	125.00	1.97
Mediomastus californiensis	500.00	7.87
Axiiothella mucosa	125.00	1.97
Megalomma pigmentum	125.00	1.97
Jaspidella blanesi	50.00	0.79
Eulimastoma weberi	100.00	1.57
Turbonilla hemphilli	50.00	0.79
Acteocina canaliculata	150.00	2.36
Haminoea succinea	25.00	0.39
Nuculana acuta	150.00	2.36
Pinnidae	25.00	0.39
Parvilucina multilinea	575.00	9.06
Diplodonta semiaspera	325.00	5.12
Laevicardium mortoni	25.00	0.39
Mulinia lateralis	100.00	1.57
Macoma tenta	25.00	0.39
Tellina versicolor	1625.00	25.59
Tellidora cristatus	50.00	0.79
Tagelus divisus	100.00	1.57
Chione cancellata	250.00	3.94
Corbula contracta	50.00	0.79
Lyonsia hyalina floridana	225.00	3.54
Asthenothaerus hemphilli	125.00	1.97
Dentalium laqueatum	25.00	0.39
Oxyurostylis smithi	25.00	0.39
Kalliapseudes sp. A	25.00	0.39
Ampelisca sp. C	75.00	1.18
Monocorophium acherusicum	25.00	0.39
Photis sp. C	25.00	0.39
Phascolion crypta	300.00	4.72
Amphioplus thrombodes	50.00	0.79
Branchiostoma floridae	25.00	0.39

Project =1997 TAMPA BAY BENTHOS
 Location =BOCA CIEGA BAY
 Name =97BCB31

Sample Characteristics

Number of Species : 43
 Density of All Species : 4400.00 /M2
 Diversity (Hprime -log base 2) : 4.66
 Evenness (Hprime/Hmax) : 0.86

Taxa	Observed	Percentage
<i>Turbellaria</i> sp. A	25.00	0.57
<i>Nemertea</i> K	25.00	0.57
<i>Nemertea</i> B	25.00	0.57
<i>Phyllodoce</i> <i>arenae</i>	25.00	0.57
<i>Glycinde</i> <i>solitaria</i>	100.00	2.27
<i>Cirrophorus</i>	25.00	0.57
<i>Prionospio</i> <i>heterobranchia</i>	75.00	1.70
<i>Apoprionospio</i> <i>pygmaea</i>	125.00	2.84
<i>Prionospio</i> <i>perkinsi</i>	25.00	0.57
<i>Paraprionospio</i> <i>pinnata</i>	225.00	5.11
<i>Carazziella</i> <i>hobsonae</i>	25.00	0.57
<i>Monticellina</i> <i>dorsobranchialis</i>	50.00	1.14
<i>Armandia</i> <i>maculata</i>	50.00	1.14
<i>Mediomastus</i> <i>californiensis</i>	275.00	6.25
<i>Axiiothella</i> <i>mucosa</i>	300.00	6.82
<i>Megalomma</i> <i>pigmentum</i>	25.00	0.57
<i>Tectonatica</i> <i>pusilla</i>	25.00	0.57
<i>Jaspidella</i> <i>blanesi</i>	275.00	6.25
<i>Eulimastoma</i> <i>weberi</i>	75.00	1.70
<i>Turbonilla</i> cf. <i>dalli</i>	50.00	1.14
<i>Odostomia</i> <i>virginiana</i>	75.00	1.70
<i>Acteocina</i> <i>canaliculata</i>	150.00	3.41
<i>Haminoea</i> <i>succinea</i>	275.00	6.25
<i>Nucula</i> <i>crenulata</i>	25.00	0.57
<i>Nuculana</i> <i>acuta</i>	25.00	0.57
<i>Solemya</i> <i>occidentalis</i>	25.00	0.57
<i>Parvilucina</i> <i>multilineata</i>	225.00	5.11
<i>Diplodonta</i> <i>semiaspera</i>	125.00	2.84
<i>Mysella</i> <i>planulata</i>	75.00	1.70
<i>Laevicardium</i> <i>mortoni</i>	50.00	1.14
<i>Mulinia</i> <i>lateralis</i>	25.00	0.57
<i>Macoma</i> <i>tenta</i>	50.00	1.14
<i>Tellina</i> sp.	675.00	15.34
<i>Tellina</i> <i>versicolor</i>	75.00	1.70
<i>Tagelus</i> <i>divisus</i>	25.00	0.57
<i>Chione</i> <i>cancellata</i>	50.00	1.14
<i>Lyonsia</i> <i>hyalina</i> <i>floridana</i>	50.00	1.14
<i>Asthenothaerus</i> <i>hemphilli</i>	100.00	2.27
<i>Ampelisca</i> <i>holmesi</i>	25.00	0.57
<i>Listriella</i> <i>barnardi</i>	150.00	3.41
<i>Sipuncula</i>	25.00	0.57
<i>Phascolion</i> <i>crypta</i>	225.00	5.11
<i>Glottidia</i> <i>pyramidata</i>	25.00	0.57
<i>Ophiuroidea</i>	50.00	1.14
<i>Amphipholis</i> <i>squamata</i>	25.00	0.57
<i>Ophiophragmus</i> <i>filograneus</i>	25.00	0.57

Project =1997 TAMPA BAY BENTHOS
 Location =BOCA CIEGA BAY
 Name =97BCB36

Sample Characteristics

Number of Species : 44
 Density of All Species : 4175.00 /M2
 Diversity (Hprime -log base 2) : 4.60
 Evenness (Hprime/Hmax) : 0.84

Taxa	Observed	Percentage
<i>Turbellaria</i> sp. A	25.00	0.60
<i>Nemertea</i> K	25.00	0.60
<i>Nemertea</i> B	50.00	1.20
<i>Sthenelais</i> sp. A	75.00	1.80
<i>Paranaitis</i> gardineri	25.00	0.60
<i>Podarkeopsis</i> levifuscina	25.00	0.60
<i>Sphaerosyllis</i> aciculata	25.00	0.60
<i>Aglaophamus</i> verrilli	125.00	2.99
<i>Onuphidae</i>	50.00	1.20
<i>Schistomeringos</i> cf. rudolphi	25.00	0.60
<i>Aricidea</i> (Allia) sp. A	25.00	0.60
<i>Apoprionospio</i> pygmaea	25.00	0.60
<i>Spio</i> pettiboneae	25.00	0.60
<i>Armandia</i> maculata	25.00	0.60
<i>Mediomastus</i> californiensis	50.00	1.20
<i>Owenia</i> fusiformis	25.00	0.60
<i>Isolda</i> pulchella	25.00	0.60
<i>Loimia</i> medusa	50.00	1.20
<i>Megalomma</i> pigmentum	25.00	0.60
<i>Caecum</i> pulchellum	75.00	1.80
<i>Microeulima</i> hemphilli	25.00	0.60
<i>Jaspidella</i> blanesi	150.00	3.59
<i>Terebra</i> protexta	25.00	0.60
<i>Cylichnella</i> bidentata	75.00	1.80
<i>Nucula</i> crenulata	150.00	3.59
<i>Parvilucina</i> multilinea	100.00	2.40
<i>Diplodonta</i> semiaspera	175.00	4.19
<i>Mysella</i> planulata	50.00	1.20
<i>Laevicardium</i> mortoni	25.00	0.60
<i>Tellina</i> sp.	625.00	14.97
<i>Tellina</i> versicolor	25.00	0.60
<i>Veneridae</i>	75.00	1.80
<i>Chione</i> cancellata	25.00	0.60
<i>Lyonsia</i> hyalina floridana	200.00	4.79
<i>Asthenothaerus</i> hemphilli	125.00	2.99
<i>Dentalium</i> laqueatum	25.00	0.60
<i>Oxyurostylis</i> smithi	50.00	1.20
<i>Cyclaspis</i> cf. varians	25.00	0.60
<i>Ampelisca</i> sp. C	100.00	2.40
<i>Listriella</i> barnardi	400.00	9.58
<i>Eudevenopus</i> honduranus	75.00	1.80
<i>Pinnixa</i> spp.	75.00	1.80
<i>Phascolion</i> crypta	125.00	2.99
<i>Ophiuroidea</i>	25.00	0.60
<i>Ophiophragmus</i> wurdemani	25.00	0.60
<i>Branchiostoma</i> floridae	600.00	14.37

Project =1997 TAMPA BAY BENTHOS
 Location =BOCA CIEGA BAY
 Date =SEPT-OCT 97
 Name =97BCB37

Sample Characteristics

Number of Species : 34
 Density of All Species : 3125.00 /M2
 Diversity (Hprime -log base 2) : 3.55
 Evenness (Hprime/Hmax) : 0.70

Taxa	Observed	Percentage
Nemertea R	50.00	1.60
Autolytinae	25.00	0.80
Autolytus sp.	25.00	0.80
Syllis cf. lutea	75.00	2.40
Exogone dispar	100.00	3.20
Grubeosyllis (Brania) clavata	25.00	0.80
Parapionosyllis sp.	25.00	0.80
Polydora socialis	25.00	0.80
Prionospio heterobranchia	100.00	3.20
Paraprionospio pinnata	25.00	0.80
Magelona pettiboneae	25.00	0.80
Capitella capitata	175.00	5.60
Heteromastus filiformis	25.00	0.80
Chone sp.	25.00	0.80
Tubificidae	1425.00	45.60
Tubificoides wasselli	25.00	0.80
Crepidula	75.00	2.40
Olivella pusilla	25.00	0.80
Jaspidella blanesi	25.00	0.80
Granulina hadria	100.00	3.20
Gibberula lavalleenana	75.00	2.40
Prunum apicinum	25.00	0.80
Pilsbryspira leucoryana	25.00	0.80
Turbonilla cf. dalli	25.00	0.80
Aplysia sp.	175.00	5.60
Anomia simplex	50.00	1.60
Carditamera floridana	25.00	0.80
Tellina sp.	50.00	1.60
Chione cancellata	25.00	0.80
Oxyurostylis smithi	25.00	0.80
Ampelisca abdita/vadourum	50.00	1.60
Cymadusa compta	75.00	2.40
Microprotopus raneyi	25.00	0.80
Deutella incerta	25.00	0.80
Phascolion crypta	50.00	1.60

1997 BOCA CIEGA BAY BENTHOS: RUN DATE 24 AUG 98

Project =1997 TAMPA BAY BENTHOS
 Location =BOCA CIEGA BAY
 Date =SEPT-OCT 97
 Name =97BCB40

Sample Characteristics

Number of Species : 40
 Density of All Species : 3400.00 /M2
 Diversity (Hprime -log base 2) : 4.59
 Evenness (Hprime/Hmax) : 0.85

Taxa	Observed	Percentage
Nemertea T	75.00	2.21
Syllis cornuta	25.00	0.74
Syllis cf. lutea	75.00	2.21
Exogone dispar	25.00	0.74
Sphaerosyllis labyrinthophila	25.00	0.74
Ceratonereis irritabilis	25.00	0.74
Laeonereis culveri	250.00	7.35
Marphysa ?sanguinea	25.00	0.74
Lumbrineris tenuis	25.00	0.74
Arabella multidentata	25.00	0.74
Ophryotrocha sp.	25.00	0.74
Leitoscoloplos	50.00	1.47
Polydora cornuta	75.00	2.21
Prionospio heterobranchia	325.00	9.56
Magelona pettiboneae	50.00	1.47
Cirriformia sp. 1	250.00	7.35
Capitella capitata	550.00	16.18
Notomastus hemipodus	25.00	0.74
Sabaco americanus	25.00	0.74
Axiiothella mucosa	75.00	2.21
Fabriciinae	75.00	2.21
Tubificidae	50.00	1.47
Bittium varium	75.00	2.21
Melanella ?intermedia	25.00	0.74
Crepidula	100.00	2.94
Olivella pusilla	25.00	0.74
Dentimargo aureocinctus	25.00	0.74
Gibberula lavalleenana	75.00	2.21
Turbonilla cf. dalli	50.00	1.47
Bulla striata	150.00	4.41
Haminoea antillarum	25.00	0.74
Acanthopleura granulata	25.00	0.74
Tellina sp.	25.00	0.74
Transennella conradina	50.00	1.47
Leptochelia	175.00	5.15
Ampelisca spp.	25.00	0.74
Cymadusa compta	300.00	8.82
Elasmopus laevis	25.00	0.74
Pagurus macLaughlinae	25.00	0.74
Phascolion crypta	50.00	1.47

Project =1997 TAMPA BAY BENTHOS
 Location =BOCA CIEGA BAY
 Date =SEPT-OCT 97
 Name =97BCB46

Sample Characteristics

Number of Species : 50
 Density of All Species : 12100.00 /M2
 Diversity (Hprime -log base 2) : 3.33
 Evenness (Hprime/Hmax) : 0.59

Taxa	Observed	Percentage
Nemertea F	25.00	0.21
Podarkeopsis levifusca	50.00	0.41
Proceras sp. A	25.00	0.21
Pionosyllis sp.	25.00	0.21
Syllis cf. lutea	825.00	6.82
Exogone dispar	900.00	7.44
Sphaerosyllis taylori	25.00	0.21
Sphaerosyllis labyrinthophila	25.00	0.21
Grubeosyllis sp.	100.00	0.83
Ceratonereis irritabilis	100.00	0.83
Platynereis dumerilii	125.00	1.03
Kinbergonuphis simoni	50.00	0.41
Leitoscoloplos robustus	50.00	0.41
Cirrophorus	25.00	0.21
Polydora socialis	25.00	0.21
Prionospio heterobranchia	125.00	1.03
Prionospio perkinsi	50.00	0.41
Magelona pettiboneae	25.00	0.21
Cirriformia sp. 1	125.00	1.03
Capitella capitata	125.00	1.03
Axiiothella mucosa	25.00	0.21
Streblosoma hartmanae	500.00	4.13
Branchiomma sp?	750.00	6.20
Megalomma sp.	750.00	6.20
Demonax microphthalma	150.00	1.24
Pomatoceros americanus	100.00	0.83
Tubificidae	5925.00	48.97
Schwartziella catesbyana	25.00	0.21
Granulina hadria	25.00	0.21
Gibberula lavalleenana	100.00	0.83
Prunum apicinum	25.00	0.21
Kurtziella ?diomedea	25.00	0.21
Pilsbryspira leucoryana	25.00	0.21
Conus stearnsi	25.00	0.21
Turbonilla cf. dalli	25.00	0.21
Aplysia sp.	200.00	1.65
Acanthopleura granulata	150.00	1.24
Mysella planulata	25.00	0.21
Carditamera floridana	100.00	0.83
Tellina sp.	25.00	0.21
Tellina lineata	25.00	0.21

Project	=1997 TAMPA BAY BENTHOS
Location	=BOCA CIEGA BAY
Date	=SEPT-OCT 97
Name	=97BCB46-CONTINUED

<i>Amakusanthura magnifica</i>	25.00	0.21
<i>Paracerceis caudata</i>	25.00	0.21
<i>Cassidinidea ovalis</i>	50.00	0.41
<i>Gammaridea</i>	25.00	0.21
<i>Ampelisca vadorum</i>	50.00	0.41
<i>Amphilocheus neopolitanus</i>	50.00	0.41
<i>Cymadusa compta</i>	275.00	2.27
<i>Grandidierella bonnieroides</i>	75.00	0.62
<i>Elasmopus laevis</i>	200.00	1.65
<i>Deutella incerta</i>	100.00	0.83
<i>Paracaprella</i>	25.00	0.21
<i>Paracaprella pusilla</i>	25.00	0.21
<i>Phascolion crypta</i>	100.00	0.83

Project =1997 TAMPA BAY BENTHOS
 Location =BOCA CIEGA BAY
 Date =SEPT-OCT 97
 Name =97BCB50

Sample Characteristics

Number of Species : 33
 Density of All Species : 4300.00 /M2
 Diversity (Hprime -log base 2) : 4.09
 Evenness (Hprime/Hmax) : 0.81

Taxa	Observed	Percentage
Nemertea F	50.00	1.16
Podarke obscura	25.00	0.58
Podarkeopsis levifuscina	25.00	0.58
Syllis cf. lutea	925.00	21.51
Sphaerosyllis longicauda	25.00	0.58
Kinbergonuphis simoni	150.00	3.49
Lumbrineris tenuis	100.00	2.33
Arabella mutans	25.00	0.58
Polydora cornuta	300.00	6.98
Prionospio heterobranchia	25.00	0.58
Streblospio benedicti	25.00	0.58
Magelona pettiboneae	125.00	2.91
Notomastus hemipodus	175.00	4.07
Streblosoma hartmanae	25.00	0.58
Fabriciunda trilobata	25.00	0.58
Tubificidae	25.00	0.58
Tubificoides wasselli	275.00	6.40
Modulus modulus	25.00	0.58
Crepidula	100.00	2.33
Crepidula fornicata	75.00	1.74
Olivella pusilla	25.00	0.58
Gibberula lavalleenana	25.00	0.58
Marginella apicina	50.00	1.16
Turbonilla conradi	25.00	0.58
Bulla striata	200.00	4.65
Acanthopleura granulata	25.00	0.58
Neaeromya floridana	200.00	4.65
Leptochelia	675.00	15.70
Amakusanthura magnifica	125.00	2.91
Harrieta faxoni	25.00	0.58
Cymadusa compta	200.00	4.65
Phascolion crypta	100.00	2.33
Amphioplus thrombodes	100.00	2.33

1997 BOGA CIEGA BAY BENTHOS: RUN DATE 21 AUG 98

Project =1997 TAMPA BAY BENTHOS
 Location =BOGA CIEGA BAY
 Date =SEPT-OCT 97
 Name =97BCB57

Sample Characteristics

Number of Species : 14
 Density of All Species : 3725.00 /M2
 Diversity (Hprime -log base 2) : 2.60
 Evenness (Hprime/Hmax) : 0.68

Taxa	Observed	Percentage
<i>Malmgreniella macrariae</i>	50.00	1.34
<i>Podarkeopsis levifuscina</i>	150.00	4.03
<i>Schistomeringos cf. rudolphi</i>	50.00	1.34
<i>Prionospio perkinsi</i>	250.00	6.71
<i>Carazziella hobsonae</i>	1325.00	35.57
<i>Monticellina dorsobranchialis</i>	1125.00	30.20
<i>Notomastus latericeus</i>	50.00	1.34
<i>Mediomastus californiensis</i>	25.00	0.67
<i>Tubificidae</i>	150.00	4.03
<i>Jaspidella blanesi</i>	25.00	0.67
<i>Neaeromya floridana</i>	375.00	10.07
<i>Mulinia lateralis</i>	25.00	0.67
<i>Tellina sp.</i>	25.00	0.67
<i>Ophiuroidea</i>	25.00	0.67
<i>Micropholis gracillima</i>	75.00	2.01

Project	=1997 TAMPA BAY BENTHOS
Location	=BOCA CIEGA BAY
Date	=SEPT-OCT 97
Name	=97BCB58/1

Sample Characteristics

Number of Species	:	8
Density of All Species	:	350.00 /M2
Diversity (Hprime -log base 2)	:	2.64
Evenness (Hprime/Hmax)	:	0.88

Taxa	Observed	Percentage
<i>Podarkeopsis levifusca</i>	25.00	7.14
<i>Schistomeringos cf. rudolphi</i>	125.00	35.71
<i>Aricidea taylori</i>	25.00	7.14
<i>Paraprionospio pinnata</i>	25.00	7.14
<i>Monticellina dorsobranchialis</i>	75.00	21.43
<i>Mysella sp. A</i>	25.00	7.14
<i>Tellina versicolor</i>	25.00	7.14
<i>Micropholis gracillima</i>	25.00	7.14

1997 BOCA CIEGA BAY BENTHOS: RUN DATE 24 AUG 98

Project =1997 TAMPA BAY BENTHOS
 Location =BOCA CIEGA BAY
 Date =SEPT-OCT 97
 Name =97BCB58/2

Sample Characteristics

Number of Species : 22
 Density of All Species : 1000.00 /M2
 Diversity (Hprime -log base 2) : 4.14
 Evenness (Hprime/Hmax) : 0.93

Taxa	Observed	Percentage
<i>Syllis cornuta</i>	175.00	17.50
<i>Exogone dispar</i>	25.00	2.50
<i>Aglaophamus verrilli</i>	50.00	5.00
<i>Glycinde solitaria</i>	25.00	2.50
<i>Marphysa nr. belli</i>	25.00	2.50
<i>Lumbrineris verrilli</i>	50.00	5.00
<i>Schistomeringos cf. rudolphi</i>	25.00	2.50
<i>Aricidea sp.</i>	25.00	2.50
<i>Prionospio perkinsi</i>	50.00	5.00
<i>Notomastus latericeus</i>	25.00	2.50
<i>Mediomastus</i>	25.00	2.50
<i>Mediomastus californiensis</i>	50.00	5.00
<i>Sabaco americanus</i>	25.00	2.50
<i>Nassarius vibex</i>	25.00	2.50
<i>Jaspidella blanesi</i>	75.00	7.50
<i>Solemya occidentalis</i>	50.00	5.00
<i>Parvilucina multilineata</i>	25.00	2.50
<i>Tellina sp.</i>	75.00	7.50
<i>Tellidora cristatus</i>	25.00	2.50
<i>Corbula contracta</i>	25.00	2.50
<i>Monocorophium tuberculatum</i>	100.00	10.00
<i>Phascolion crypta</i>	25.00	2.50

Project =1997 TAMPA BAY BENTHOS
 Location =BOCA CIEGA BAY
 Date =SEPT-OCT 97
 Name =97BCB59/1

Sample Characteristics

Number of Species : 33
 Density of All Species : 2350.00 /M2
 Diversity (Hprime -log base 2) : 4.66
 Evenness (Hprime/Hmax) : 0.92

Taxa	Observed	Percentage
Nemertea T	100.00	4.26
Nemertea I	125.00	5.32
Podarkeopsis levifuscina	25.00	1.06
Brania wellfleetensis	25.00	1.06
Laeonereis culveri	50.00	2.13
Glycinde solitaria	25.00	1.06
Kinbergonuphis simoni	100.00	4.26
Leitoscoloplos robustus	25.00	1.06
Scoloplos rubra	25.00	1.06
Aricidea suecica	50.00	2.13
Cirrophorus	100.00	4.26
Polydora socialis	25.00	1.06
Streblospio benedicti	225.00	9.57
Carazziella hobsonae	100.00	4.26
Monticellina dorsobranchialis	125.00	5.32
Mediomastus californiensis	100.00	4.26
Maldanidae	25.00	1.06
Axiothella mucosa	200.00	8.51
Teinostoma sp.	25.00	1.06
Nassarius vibex	25.00	1.06
Jaspidella blanesi	75.00	3.19
Prunum apicinum	50.00	2.13
Eulimastoma teres	25.00	1.06
Acteocina canaliculata	25.00	1.06
Bivalvia	50.00	2.13
Parvilucina multiligneata	100.00	4.26
Mysella planulata	50.00	2.13
Laevicardium mortoni	25.00	1.06
Tellina sp.	150.00	6.38
Chione cancellata	50.00	2.13
Parastarte triquetra	50.00	2.13
Cirripecta	25.00	1.06
Phoronis ?architecta	175.00	7.45

Project	=1997 TAMPA BAY BENTHOS
Location	=BOCA CIEGA BAY
Date	=SEPT-OCT 97
Name	=97BCB59/2

Sample Characteristics

Number of Species	:	19
Density of All Species	:	1500.00 /M2
Diversity (Hprime -log base 2)	:	3.33
Evenness (Hprime/Hmax)	:	0.78

Taxa	Observed	Percentage
<i>Thenaria</i>	25.00	1.67
<i>Podarkeopsis levifuscina</i>	25.00	1.67
<i>Ancistrosyllis jonesi</i>	50.00	3.33
<i>Aglaophamus verrilli</i>	25.00	1.67
<i>Glycinde solitaria</i>	50.00	3.33
<i>Onuphidae</i>	25.00	1.67
<i>Aricidea</i> sp.	25.00	1.67
<i>Aricidea suecica</i>	25.00	1.67
<i>Prionospio perkinsi</i>	50.00	3.33
<i>Carazziella hobsonae</i>	275.00	18.33
<i>Cirratulidae</i>	50.00	3.33
<i>Monticellina dorsobranchialis</i>	475.00	31.67
<i>Mediomastus californiensis</i>	100.00	6.67
<i>Tubificidae</i>	175.00	11.67
<i>Turbonilla conradi</i>	25.00	1.67
<i>Solemya occidentalis</i>	25.00	1.67
<i>Mulinia lateralis</i>	25.00	1.67
<i>Pinnixa</i> cf. <i>floridana</i>	25.00	1.67
<i>Phoronida</i> sp. B	25.00	1.67

Project =1997 TAMPA BAY BENTHOS
 Location =BOCA CIEGA BAY
 Date =SEPT-OCT 97
 Name =97BCB60/2

Sample Characteristics

Number of Species : 36
 Density of All Species : 6050.00 /M2
 Diversity (Hprime -log base 2) : 4.33
 Evenness (Hprime/Hmax) : 0.84

Taxa	Observed	Percentage
Nemertea T	25.00	0.41
Podarkeopsis levifusca	125.00	2.07
Glycera americana	25.00	0.41
Glycinde solitaria	25.00	0.41
Onuphidae	25.00	0.41
Scoloplos rubra	275.00	4.55
Aricidea suecica	500.00	8.26
Aricidea philbinae	50.00	0.83
Aricidea alisdari	25.00	0.41
Cirrophorus	425.00	7.02
Polydora socialis	25.00	0.41
Prionospio heterobranchia	100.00	1.65
Paraprionospio pinnata	975.00	16.12
Streblospio benedicti	725.00	11.98
Carazziella hobsonae	350.00	5.79
Monticellina dorsobranchialis	125.00	2.07
Mediomastus ambiseta	175.00	2.89
Mediomastus californiensis	225.00	3.72
Tubificidae	200.00	3.31
Jaspidella blanesi	250.00	4.13
Conus stearnsi	25.00	0.41
Eulimastoma weberi	200.00	3.31
Odostomia virginiana	200.00	3.31
Acteocina canaliculata	175.00	2.89
Haminoea succinea	100.00	1.65
Solemya occidentalis	25.00	0.41
Parvilucina multilineata	50.00	0.83
Mysella planulata	25.00	0.41
Tellina sp.	400.00	6.61
Tellina versicolor	75.00	1.24
Tellina alternata	25.00	0.41
Amakusanthura magnifica	25.00	0.41
Edotia triloba	25.00	0.41
Ampelisca holmesii	100.00	1.65
Microprotopus raneyi	25.00	0.41
Phoronis ?architecta	75.00	1.24
Synaptidae sp.	25.00	0.41
Synaptidae sp. A	25.00	0.41

Project	=1997 TAMPA BAY BENTHOS
Location	=BOCA CIEGA BAY
Date	=SEPT-OCT 97
Name	=97BCB60/4

Sample Characteristics

Number of Species	:	63
Density of All Species	:	9750.00 /M2
Diversity (Hprime -log base 2)	:	4.90
Evenness (Hprime/Hmax)	:	0.82

Taxa	Observed	Percentage
Nemertea T	50.00	0.51
Nemertea F	25.00	0.26
Nemertea B	25.00	0.26
Podarkeopsis levifuscina	50.00	0.51
Syllis cornuta	100.00	1.03
Trypanosyllis sp.	250.00	2.56
Exogone dispar	225.00	2.31
Neanthes acuminata	25.00	0.26
Aglaophamus verrilli	50.00	0.51
Glycinde solitaria	125.00	1.28
Diopatra cuprea	25.00	0.26
Schistomeringos cf. rudolphi	25.00	0.26
Polydora socialis	250.00	2.56
Prionospio perkinsi	25.00	0.26
Paraprionospio pinnata	175.00	1.79
Chaetopterus pergamentaceus	75.00	0.77
Aphelochaeta sp?	25.00	0.26
Armandia maculata	100.00	1.03
Notomastus hemipodus	25.00	0.26
Mediomastus ambiseta	50.00	0.51
Mediomastus californiensis	425.00	4.36
Axiothella mucosa	1925.00	19.74
Melinna sp.	25.00	0.26
Lanassa sp.	25.00	0.26
Loimia medusa	25.00	0.26
Megalomma pigmentum	25.00	0.26
Sabella melanostigma	100.00	1.03
Demonax	25.00	0.26
Tubificidae	75.00	0.77
Caecum pulchellum	25.00	0.26
Bittium varium	75.00	0.77
Crepidula plana	25.00	0.26
Parvanachis obesa	150.00	1.54
Jaspidella blanesi	175.00	1.79
Turbonilla cf. dalli	50.00	0.51
Acteocina canaliculata	50.00	0.51
Haminoea succinea	25.00	0.26

Project =1997 TAMPA BAY BENTHOS
 Location =BOCA CIEGA BAY
 Date =SEPT-OCT '97
 Name =97BCB60/4-CONTINUED

Bivalvia	175.00	1.79
Nucula crenulata	50.00	0.51
Nuculana acuta	225.00	2.31
Anadara transversa	50.00	0.51
Brachidontes exustus	25.00	0.26
Parvilucina multilinea	225.00	2.31
Diplodonta semiaspera	150.00	1.54
Mysella planulata	25.00	0.26
Laevicardium mortoni	25.00	0.26
Tellina sp.	875.00	8.97
Tellina versicolor	50.00	0.51
Tagelus divisus	500.00	5.13
Chione cancellata	225.00	2.31
Lyonsia hyalina floridana	175.00	1.79
Asthenothaerus hemphilli	200.00	2.05
Oxyurostylis	25.00	0.26
Gammaridea	25.00	0.26
Ampelisca sp. C	75.00	0.77
Paramicrodeutopus cf. myersi	500.00	5.13
Monocorophium tuberculatum	250.00	2.56
Laticorophium cf. baconi	50.00	0.51
Erichthonius brasiliensis	150.00	1.54
Microprotopus raneyi	100.00	1.03
Listriella barnardi	75.00	0.77
Paracaprella	75.00	0.77
Polyonyx gibbesi	100.00	1.03
Pinnixa spp.	25.00	0.26
Pinnixa chaetopterana	50.00	0.51
Phascolion crypta	275.00	2.82
Ophiuroidea	75.00	0.77

