

1996 ANNUAL REPORT
WATER QUALITY MONITORING

FLORIDA BAY AND WHITEWATER BAY
TEN THOUSAND ISLANDS
BISCAYNE BAY
SOUTHWEST FLORIDA SHELF

Southeast Environmental Research Program

Florida International University

aware that previous data provided to Everglades National Park may be in micro-moles per liter (μM).

Biological parameters monitored include chlorophyll-a ($\mu\text{g l}^{-1}$) and alkaline phosphatase activity (APA; $\mu\text{M hr}^{-1}$). Field parameters determined at both the surface and bottom of the water column at each station include salinity (ppt), dissolved oxygen (DO), and temperature ($^{\circ}\text{C}$). Turbidity (NTU) was also determined from a surface water sample collected at each station.

Data Results

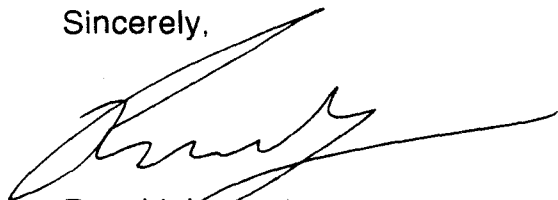
Tables summarizing basic statistical information about each water quality parameter for each station are included as Tables 1 through 21 for each of the 4 zones. Data summarized on these tables include the number (N) of samples analyzed; the minimum (Min) and maximum (Max) value obtained; and the mean, standard deviation (S.D.) and the coefficient of variation (Coef. Var.) for the complete period of record (POR). The coefficient of variation was determined as the standard deviation divided by the mean. In addition, the annual mean and standard deviation of each parameter for the years 1992 - 1996 were determined for those stations containing all twelve months of data. Also included on the statistical tables are the min, max, mean, s.d., and coef. var. of each parameter for all stations. All of the data collected up to and including survey 70 are included in the statistical tables.

Discussion

As this is an addendum to the reports released August 1996, we have not included a discussion of the results. We plan to render a full analysis of the data in our next annual report. A manuscript entitled "Spatial Characterization of Water Quality in Florida Bay and Whitewater Bay by Multivariate Analyses: Zones of Similar Influence" by Boyer, Fourqurean, and Jones has been accepted for publication in the peer-reviewed journal *Estuaries*. We append a copy to the corresponding report for your use.

If you have any questions about the content of this report, please do not hesitate to contact me at 305-348-4076, boyerj@servax.fiu.edu or Ron Jones at 305-348-3095.

Sincerely,



Ronald Jones
Director and Professor



Joseph N. Boyer
Assistant Scientist

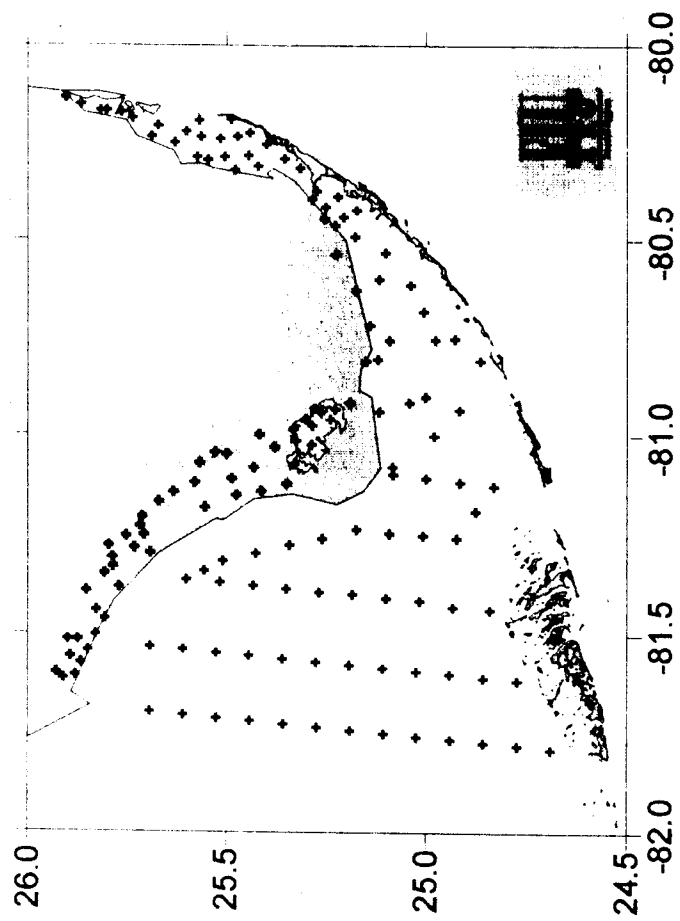


Fig. 1



Table 1: Florida Bay/Whitewater Bay Station Summary

Station Name	Station Number	Latitude	Longitude	Period of Record	Surveys
Card Sound Bridge	1	25 16.413	80 22.475	March 91 - Dec 96	1-70
Middle Bay	2	25 17.102	80 23.702	March 91 - Dec 96	1-70
Manatee Bay	3	25 15.062	80 24.910	March 91 - Dec 96	1-70
Barnes Sound	4	25 13.304	80 23.299	March 91 - Dec 96	1-70
*Blackwater Sound	5	25 10.443	80 25.385	March 91 - Dec 96	1-70
*Little Blackwater Sound	6	25 12.401	80 26.424	March 91 - Dec 96	1-70
Highway Creek	7	25 15.216	80 26.649	March 91 - Dec 96	1-70
Long Sound	8	25 13.642	80 27.700	March 91 - Dec 96	1-70
Duck Key	9	25 10.624	80 29.494	March 91 - Dec 96	1-70
Joe Bay	10	25 13.468	80 32.195	March 91 - Dec 96	1-70
Little Madeira Bay	11	25 10.510	80 37.615	March 91 - Dec 96	1-70
Terrapin Bay	12	25 08.422	80 42.967	March 91 - Dec 96	1-70
Whipray Basin	13	25 05.485	80 45.287	March 91 - Dec 96	1-70
Garfield Bight	14	25 09.029	80 48.553	April 91 - Dec 96	2-70
Rankin Lake	15	25 07.283	80 48.173	March 91 - Dec 96	1-70
Murray Key	16	25 07.096	80 56.379	March 91 - Dec 96	1-70
Johnson Key Basin	17	25 02.548	80 54.889	March 91 - Dec 96	1-70
Rabbit Key Basin	18	25 00.145	80 54.006	March 91 - Dec 96	1-70
Twin Key Basin	19	24 58.660	80 45.211	April 91 - Dec 96	2-70
Peterson Key	20	24 55.770	80 45.028	March 91 - Dec 96	1-70
Porpoise Lake	21	25 00.396	80 40.876	March 91 - Dec 96	1-70
Captain's Key	22	25 02.405	80 36.843	April 91 - Dec 96	2-70
Park Key	23	25 07.078	80 35.983	April 91 - Dec 96	2-70
Butternut Key	24	25 06.105	80 31.884	March 91 - Dec 96	1-70
East Cape	25	25 05.022	81 04.835	July 92 - Dec 96	17-70
Oxfoot Bank	26	24 58.844	81 00.098	July 92 - Dec 96	17-70
Sprigger Bank	27	24 55.116	80 56.092	July 92 - Dec 96	17-70
Old Dan Bank	28	24 52.032	80 48.429	July 92 - Dec 96	17-70
First Bay	29	25 33.272	81 11.020	Sept 92 - Dec 96	19-70
Third Bay	30	25 34.810	81 07.256	Sept 92 - Dec 96	19-70
Big Lostman's Bay	31	25 34.055	81 04.288	Sept 92 - Dec 96	19-70
Cabbage Island	32	25 31.764	81 02.603	Sept 92 - Dec 96	19-70
Broad River Bay	33	25 29.984	81 02.939	Sept 92 - Dec 96	19-70
Middle Broad River	34	25 29.163	81 06.669	Sept 92 - Dec 96	19-70
Mouth Broad River	35	25 28.501	81 09.176	Sept 92 - Dec 96	19-70
South Mouth Harney River	36	25 24.701	81 08.487	Sept 92 - Dec 96	19-70
Harney River Junction	37	25 25.901	81 04.943	Sept 92 - Dec 96	19-70
Tarpon Bay	38	25 25.037	80 59.906	Sept 92 - Dec 96	19-70
Gunboat Island	39	25 22.735	81 01.844	Sept 92 - Dec 96	19-70
Ponce De Leon Bay	40	25 20.983	81 07.474	Sept 92 - Dec 96	19-70
Oyster Bay	41	25 19.869	81 04.360	Sept 92 - Dec 96	19-70
North of Marker 36	42	25 19.560	81 00.873	Sept 92 - Dec 96	19-70
West of Marker 34	43	25 17.168	81 01.419	Sept 92 - Dec 96	19-70
Watson River Chickee	44	25 19.912	80 59.022	Sept 92 - Dec 96	19-70
Mouth North River	45	25 18.054	80 57.620	Sept 92 - Dec 96	19-70
Midway Keys	46	25 17.102	80 58.548	Sept 92 - Dec 96	19-70
Mouth of Roberts River	47	25 16.779	80 55.846	Sept 92 - Dec 96	19-70
West of Marker 18	48	25 14.448	80 57.476	Sept 92 - Dec 96	19-70
Southeast of Marker 12	49	25 13.704	80 55.980	Sept 92 - Dec 96	19-70
Coot Bay	50	25 11.452	80 54.848	Sept 92 - Dec 96	19-70

Table 2a: Florida Bay/Whitewater Bay Nitrate+Nitrite (mg/l of N)

Station Name	Station Number	N POR	Min POR	Max POR	Mean POR	S.D. POR	Coef. Var. POR
Card Sound Bridge	1	71	0.0009	0.0870	0.0310	0.0238	0.7679
Middle Bay	2	71	0.0013	0.0678	0.0145	0.0130	0.8960
Manatee Bay	3	71	0.0007	0.1120	0.0158	0.0220	1.3934
Barnes Sound	4	71	0.0005	0.0607	0.0134	0.0150	1.1150
Blackwater Sound	5	71	0.0010	0.0634	0.0163	0.0141	0.8643
L. Blackwater Snd	6	71	0.0011	0.0660	0.0195	0.0152	0.7808
Highway Creek	7	71	0.0008	0.0514	0.0098	0.0086	0.8778
Long Sound	8	71	0.0007	0.1232	0.0269	0.0200	0.7445
Duck Key	9	71	0.0004	0.1629	0.0464	0.0367	0.7902
Joe Bay	10	71	0.0011	0.1134	0.0315	0.0258	0.8176
L. Madeira Bay	11	71	0.0015	0.0803	0.0253	0.0168	0.6667
Terrapin Bay	12	71	0.0007	0.0610	0.0115	0.0124	1.0800
Whipray Basin	13	71	0.0007	0.0485	0.0091	0.0090	0.9928
Garfield Bight	14	70	0.0010	0.0452	0.0073	0.0086	1.1837
Rankin Lake	15	71	0.0004	0.0444	0.0081	0.0107	1.3161
Murray Key	16	70	0.0004	0.1146	0.0153	0.0205	1.3405
Johnson Key Basin	17	71	0.0006	0.0572	0.0054	0.0075	1.3973
Rabbit Key Basin	18	71	0.0006	0.0320	0.0041	0.0045	1.1076
Twin Key Basin	19	70	0.0008	0.0166	0.0041	0.0030	0.7237
Peterson Key	20	71	0.0008	0.0388	0.0086	0.0065	0.7566
Porpoise Lake	21	71	0.0007	0.0187	0.0054	0.0038	0.7021
Captain's Key	22	70	0.0015	0.0345	0.0123	0.0073	0.5894
Park Key	23	70	0.0032	0.0851	0.0253	0.0193	0.7627
Butternut Key	24	71	0.0053	0.1268	0.0444	0.0301	0.6784
East Cape	25	55	0.0004	0.0441	0.0096	0.0105	1.0906
Oxfoot Bank	26	54	0.0006	0.0267	0.0076	0.0077	1.0057
Sprigger Bank	27	54	0.0004	0.0454	0.0038	0.0064	1.7079
Old Dan Bank	28	54	0.0004	0.0178	0.0045	0.0038	0.8536
First Bay	29	52	0.0014	0.0659	0.0249	0.0181	0.7266
Third Bay	30	52	0.0006	0.0722	0.0159	0.0164	1.0309
Big Lostman's Bay	31	52	0.0010	0.0389	0.0122	0.0099	0.8095
Cabbage Island	32	52	0.0011	0.0481	0.0130	0.0132	1.0209
Broad River Bay	33	52	0.0011	0.0897	0.0206	0.0197	0.9568
Middle Broad River	34	52	0.0025	0.1271	0.0392	0.0311	0.7937
Mouth Broad River	35	52	0.0034	0.0996	0.0293	0.0197	0.6722
S. Mouth Harney R.	36	52	0.0030	0.1052	0.0217	0.0190	0.8751
Harney River Junction	37	52	0.0020	0.1201	0.0377	0.0234	0.6202
Tarpon Bay	38	52	0.0022	0.1504	0.0327	0.0281	0.8582
Gunboat Island	39	52	0.0039	0.1338	0.0352	0.0207	0.5879
Ponce De Leon Bay	40	52	0.0020	0.1261	0.0279	0.0260	0.9296
Oyster Bay	41	52	0.0019	0.1444	0.0272	0.0311	1.1438
N of Marker 36	42	52	0.0011	0.1551	0.0174	0.0305	1.7556
W of marker 34	43	52	0.0012	0.2483	0.0168	0.0413	2.4523
Watson R. Chickee	44	52	0.0016	0.1003	0.0205	0.0206	1.0049
Mouth North River	45	52	0.0014	0.1262	0.0226	0.0285	1.2624
Midway Keys	46	52	0.0007	0.2744	0.0229	0.0512	2.2372
Mouth of Roberts R.	47	52	0.0011	0.1239	0.0320	0.0307	0.9591
W of Marker 18	48	52	0.0008	0.2289	0.0261	0.0476	1.8266
SE of Marker 12	49	52	0.0009	0.2034	0.0269	0.0452	1.6794
Coot Bay	50	52	0.0008	0.3322	0.0332	0.0635	1.9149
All Stations		50	0.0004	0.3322	0.0199	0.0133	0.6678

POR = Period of Record as indicated on Table 1.

Table 2b: Florida Bay/Whitewater Bay Nitrate+Nitrite (mg/l of N)

Station Name	Station Number	Mean	S.D.	Mean	S.D.	Mean	S.D.	Mean	S.D.	Mean	S.D.
		1992	1992	1993	1993	1994	1994	1995	1995	1996	1996
Card Sound Bridge	1	0.0197	0.0210	0.0196	0.0189	0.0483	0.0244	0.0319	0.0152	0.0392	0.0229
Middle Bay	2	0.0100	0.0131	0.0140	0.0106	0.0210	0.0171	0.0141	0.0093	0.0156	0.0113
Manatee Bay	3	0.0059	0.0047	0.0074	0.0057	0.0300	0.0379	0.0230	0.0272	0.0162	0.0128
Barnes Sound	4	0.0038	0.0032	0.0058	0.0072	0.0180	0.0186	0.0216	0.0139	0.0200	0.0154
Blackwater Sound	5	0.0134	0.0140	0.0175	0.0141	0.0283	0.0166	0.0141	0.0117	0.0131	0.0113
L. Blackwater Snd	6	0.0239	0.0144	0.0140	0.0103	0.0166	0.0079	0.0288	0.0240	0.0227	0.0141
Highway Creek	7	0.0097	0.0091	0.0111	0.0131	0.0084	0.0053	0.0069	0.0042	0.0144	0.0103
Long Sound	8	0.0377	0.0334	0.0202	0.0133	0.0236	0.0133	0.0301	0.0176	0.0319	0.0199
Duck Key	9	0.0866	0.0329	0.0517	0.0283	0.0464	0.0400	0.0302	0.0265	0.0268	0.0215
Joe Bay	10	0.0563	0.0278	0.0220	0.0210	0.0295	0.0221	0.0142	0.0111	0.0182	0.0130
L. Madeira Bay	11	0.0382	0.0139	0.0105	0.0086	0.0224	0.0107	0.0213	0.0143	0.0362	0.0204
Terrapin Bay	12	0.0058	0.0043	0.0037	0.0025	0.0067	0.0039	0.0140	0.0073	0.0318	0.0145
Whipray Basin	13	0.0044	0.0022	0.0053	0.0041	0.0073	0.0040	0.0146	0.0085	0.0185	0.0141
Garfield Bight	14	0.0033	0.0021	0.0040	0.0020	0.0064	0.0043	0.0066	0.0040	0.0180	0.0159
Rankin Lake	15	0.0024	0.0013	0.0042	0.0023	0.0074	0.0112	0.0095	0.0063	0.0215	0.0165
Murray Key	16	0.0110	0.0123	0.0228	0.0215	0.0168	0.0199	0.0125	0.0146	0.0217	0.0335
Johnson Key Basin	17	0.0019	0.0012	0.0048	0.0033	0.0104	0.0148	0.0053	0.0030	0.0063	0.0067
Rabbit Key Basin	18	0.0016	0.0009	0.0032	0.0018	0.0065	0.0082	0.0035	0.0021	0.0039	0.0050
Twin Key Basin	19	0.0032	0.0016	0.0023	0.0016	0.0051	0.0028	0.0042	0.0019	0.0056	0.0045
Peterson Key	20	0.0118	0.0081	0.0049	0.0041	0.0080	0.0037	0.0066	0.0039	0.0086	0.0046
Porpoise Lake	21	0.0036	0.0034	0.0040	0.0012	0.0058	0.0032	0.0063	0.0037	0.0087	0.0052
Captain's Key	22	0.0160	0.0054	0.0079	0.0048	0.0110	0.0069	0.0122	0.0081	0.0169	0.0092
Park Key	23	0.0392	0.0136	0.0128	0.0068	0.0313	0.0222	0.0202	0.0157	0.0261	0.0218
Butternut Key	24	0.0618	0.0259	0.0495	0.0307	0.0506	0.0314	0.0287	0.0209	0.0478	0.0360
East Cape	25			0.0127	0.0097	0.0098	0.0108	0.0073	0.0075	0.0093	0.0137
Oxfoot Bank	26			0.0070	0.0067	0.0110	0.0087	0.0033	0.0029	0.0079	0.0096
Sprigger Bank	27			0.0030	0.0041	0.0063	0.0118	0.0029	0.0025	0.0029	0.0037
Old Dan Bank	28			0.0030	0.0021	0.0054	0.0048	0.0034	0.0019	0.0050	0.0054
First Bay	29			0.0333	0.0198	0.0320	0.0220	0.0130	0.0098	0.0187	0.0110
Third Bay	30			0.0194	0.0209	0.0246	0.0158	0.0065	0.0072	0.0079	0.0106
Big Lostman's Bay	31			0.0124	0.0068	0.0153	0.0140	0.0097	0.0070	0.0127	0.0114
Cabbage Island	32			0.0188	0.0179	0.0177	0.0141	0.0083	0.0068	0.0085	0.0113
Broad River Bay	33			0.0239	0.0152	0.0348	0.0309	0.0113	0.0061	0.0164	0.0134
Middle Broad River	34			0.0458	0.0239	0.0697	0.0401	0.0210	0.0096	0.0292	0.0200
Mouth Broad River	35			0.0267	0.0151	0.0417	0.0283	0.0213	0.0099	0.0326	0.0182
S. Mouth Harney R.	36			0.0256	0.0214	0.0243	0.0271	0.0178	0.0133	0.0224	0.0152
Harney River Junction	37			0.0425	0.0128	0.0452	0.0362	0.0281	0.0115	0.0360	0.0208
Tarpon Bay	38			0.0356	0.0150	0.0431	0.0515	0.0248	0.0078	0.0297	0.0189
Gunboat Island	39			0.0409	0.0140	0.0381	0.0320	0.0302	0.0107	0.0314	0.0180
Ponce De Leon Bay	40			0.0280	0.0265	0.0380	0.0357	0.0279	0.0268	0.0169	0.0088
Oyster Bay	41			0.0310	0.0223	0.0368	0.0432	0.0240	0.0256	0.0079	0.0052
N of Marker 36	42			0.0110	0.0129	0.0243	0.0449	0.0143	0.0285	0.0071	0.0033
W of marker 34	43			0.0071	0.0103	0.0284	0.0700	0.0144	0.0425	0.0068	0.0013
Watson R. Chickee	44			0.0179	0.0083	0.0276	0.0238	0.0244	0.0300	0.0073	0.0060
Mouth North River	45			0.0111	0.0097	0.0340	0.0409	0.0324	0.0313	0.0063	0.0049
Midway Keys	46			0.0043	0.0023	0.0283	0.0534	0.0422	0.0861	0.0058	0.0044
Mouth of Roberts R.	47			0.0285	0.0237	0.0440	0.0383	0.0369	0.0302	0.0091	0.0075
W of Marker 18	48			0.0067	0.0083	0.0298	0.0425	0.0495	0.0774	0.0045	0.0014
SE of Marker 12	49			0.0065	0.0050	0.0309	0.0322	0.0479	0.0731	0.0053	0.0019
Coot Bay	50			0.0056	0.0049	0.0343	0.0325	0.0756	0.1149	0.0071	0.0049
All Stations		0.0196	0.0103	0.0166	0.0080	0.0248	0.0158	0.0196	0.0230	0.0169	0.0076

Table 3a: Florida Bay/Whitewater Bay Nitrate (mg/l of N)

Station Name	Station Number	N POR	Min POR	Max POR	Mean POR	S.D. POR	Coef. Var. POR
Card Sound Bridge	1	71	0.0000	0.0805	0.0263	0.0217	0.8261
Middle Bay	2	71	0.0000	0.0607	0.0109	0.0113	1.0388
Manatee Bay	3	71	0.0000	0.1082	0.0126	0.0206	1.6406
Barnes Sound	4	71	0.0000	0.0499	0.0100	0.0128	1.2782
Blackwater Sound	5	71	0.0000	0.0534	0.0119	0.0113	0.9542
L. Blackwater Snd	6	71	0.0003	0.0530	0.0148	0.0127	0.8584
Highway Creek	7	71	0.0000	0.0410	0.0075	0.0077	1.0307
Long Sound	8	71	0.0000	0.1127	0.0213	0.0178	0.8368
Duck Key	9	71	0.0000	0.1402	0.0390	0.0314	0.8064
Joe Bay	10	71	0.0000	0.1054	0.0272	0.0234	0.8602
L. Madeira Bay	11	71	0.0005	0.0616	0.0193	0.0136	0.7031
Terrapin Bay	12	71	0.0000	0.0373	0.0067	0.0080	1.1905
Whipray Basin	13	71	0.0000	0.0265	0.0050	0.0051	1.0329
Garfield Bight	14	70	0.0000	0.0240	0.0040	0.0049	1.2351
Rankin Lake	15	71	0.0000	0.0364	0.0044	0.0064	1.4670
Murray Key	16	70	0.0000	0.1015	0.0118	0.0177	1.5032
Johnson Key Basin	17	71	0.0000	0.0483	0.0032	0.0061	1.9463
Rabbit Key Basin	18	71	0.0000	0.0252	0.0022	0.0036	1.6376
Twin Key Basin	19	70	0.0000	0.0143	0.0023	0.0026	1.0971
Peterson Key	20	71	0.0000	0.0321	0.0054	0.0052	0.9749
Porpoise Lake	21	71	0.0000	0.0153	0.0034	0.0031	0.9179
Captain's Key	22	70	0.0000	0.0267	0.0089	0.0059	0.6647
Park Key	23	70	0.0010	0.0769	0.0200	0.0166	0.8303
Butternut Key	24	71	0.0035	0.1078	0.0365	0.0259	0.7094
East Cape	25	55	0.0000	0.0370	0.0069	0.0086	1.2445
Oxfoot Bank	26	54	0.0000	0.0213	0.0051	0.0062	1.2180
Sprigger Bank	27	54	0.0000	0.0437	0.0021	0.0061	2.8890
Old Dan Bank	28	54	0.0000	0.0152	0.0021	0.0028	1.3253
First Bay	29	52	0.0006	0.0605	0.0218	0.0171	0.7867
Third Bay	30	52	0.0000	0.0665	0.0136	0.0155	1.1392
Big Lostman's Bay	31	52	0.0000	0.0347	0.0103	0.0094	0.9144
Cabbage Island	32	52	0.0000	0.0446	0.0108	0.0125	1.1647
Broad River Bay	33	52	0.0000	0.0826	0.0182	0.0187	1.0265
Middle Broad River	34	52	0.0000	0.1197	0.0355	0.0296	0.8332
Mouth Broad River	35	52	0.0007	0.0936	0.0254	0.0187	0.7386
S. Mouth Harney R.	36	52	0.0004	0.0961	0.0182	0.0179	0.9855
Harney River Junction	37	52	0.0000	0.1084	0.0332	0.0219	0.6580
Tarpon Bay	38	52	0.0003	0.1422	0.0296	0.0271	0.9156
Gunboat Island	39	52	0.0016	0.1230	0.0315	0.0196	0.6200
Ponce De Leon Bay	40	52	0.0000	0.1192	0.0242	0.0249	1.0287
Oyster Bay	41	52	0.0000	0.1349	0.0235	0.0294	1.2514
N of Marker 36	42	52	0.0000	0.1361	0.0142	0.0276	1.9438
W of marker 34	43	52	0.0000	0.1737	0.0127	0.0328	2.5899
Watson R. Chickee	44	52	0.0000	0.0946	0.0167	0.0187	1.1198
Mouth North River	45	52	0.0000	0.0941	0.0183	0.0244	1.3304
Midway Keys	46	52	0.0000	0.2684	0.0177	0.0458	2.5876
Mouth of Roberts R.	47	52	0.0000	0.1019	0.0281	0.0282	1.0014
W of Marker 18	48	52	0.0000	0.1932	0.0200	0.0407	2.0341
SE of Marker 12	49	52	0.0000	0.1669	0.0194	0.0362	1.8688
Coot Bay	50	52	0.0000	0.2375	0.0231	0.0490	2.1239
All Stations		50	0.0000	0.2684	0.0159	0.0114	0.7183

POR = Period of Record as indicated on Table 1.

Table 3b: Florida Bay/Whitewater Bay Nitrate (mg/l of N)

Station Name	Station Number	Mean 1992	S.D. 1992	Mean 1993	S.D. 1993	Mean 1994	S.D. 1994	Mean 1995	S.D. 1995	Mean 1996	S.D. 1996
Card Sound Bridge	1	0.0161	0.0185	0.0158	0.0164	0.0413	0.0225	0.0275	0.0135	0.0349	0.0215
Middle Bay	2	0.0065	0.0107	0.0099	0.0087	0.0160	0.0155	0.0113	0.0079	0.0127	0.0098
Manatee Bay	3	0.0038	0.0035	0.0044	0.0040	0.0256	0.0365	0.0194	0.0253	0.0128	0.0104
Barnes Sound	4	0.0018	0.0022	0.0035	0.0052	0.0132	0.0162	0.0175	0.0123	0.0152	0.0128
Blackwater Sound	5	0.0085	0.0112	0.0113	0.0103	0.0215	0.0142	0.0114	0.0101	0.0097	0.0088
L. Blackwater Snd	6	0.0174	0.0113	0.0093	0.0075	0.0118	0.0063	0.0239	0.0205	0.0181	0.0117
Highway Creek	7	0.0057	0.0078	0.0084	0.0106	0.0063	0.0051	0.0056	0.0041	0.0124	0.0101
Long Sound	8	0.0296	0.0309	0.0147	0.0100	0.0175	0.0099	0.0254	0.0161	0.0264	0.0177
Duck Key	9	0.0705	0.0272	0.0442	0.0261	0.0396	0.0371	0.0266	0.0242	0.0227	0.0184
Joe Bay	10	0.0485	0.0267	0.0191	0.0200	0.0256	0.0202	0.0124	0.0103	0.0157	0.0117
L. Madeira Bay	11	0.0296	0.0098	0.0067	0.0059	0.0159	0.0095	0.0167	0.0120	0.0289	0.0156
Terrapin Bay	12	0.0033	0.0035	0.0015	0.0015	0.0038	0.0024	0.0069	0.0031	0.0193	0.0087
Whipray Basin	13	0.0025	0.0018	0.0024	0.0019	0.0036	0.0023	0.0084	0.0052	0.0104	0.0076
Garfield Bight	14	0.0010	0.0014	0.0020	0.0018	0.0040	0.0037	0.0041	0.0023	0.0085	0.0085
Rankin Lake	15	0.0006	0.0007	0.0022	0.0016	0.0047	0.0096	0.0054	0.0037	0.0109	0.0083
Murray Key	16	0.0079	0.0107	0.0179	0.0184	0.0127	0.0174	0.0104	0.0125	0.0172	0.0294
Johnson Key Basin	17	0.0005	0.0010	0.0021	0.0018	0.0069	0.0128	0.0035	0.0023	0.0038	0.0047
Rabbit Key Basin	18	0.0003	0.0006	0.0012	0.0013	0.0036	0.0067	0.0022	0.0016	0.0023	0.0041
Twin Key Basin	19	0.0013	0.0013	0.0005	0.0006	0.0027	0.0019	0.0026	0.0014	0.0040	0.0041
Peterson Key	20	0.0077	0.0048	0.0026	0.0034	0.0031	0.0022	0.0038	0.0021	0.0057	0.0042
Porpoise Lake	21	0.0018	0.0031	0.0016	0.0006	0.0034	0.0025	0.0042	0.0028	0.0061	0.0040
Captain's Key	22	0.0111	0.0043	0.0048	0.0033	0.0077	0.0063	0.0093	0.0065	0.0129	0.0073
Park Key	23	0.0300	0.0111	0.0087	0.0055	0.0248	0.0206	0.0162	0.0128	0.0224	0.0192
Butternut Key	24	0.0495	0.0220	0.0410	0.0274	0.0413	0.0285	0.0237	0.0176	0.0401	0.0307
East Cape	25			0.0085	0.0077	0.0067	0.0068	0.0056	0.0063	0.0073	0.0114
Oxfoot Bank	26			0.0042	0.0046	0.0073	0.0072	0.0018	0.0024	0.0058	0.0079
Sprigger Bank	27			0.0012	0.0018	0.0041	0.0119	0.0017	0.0019	0.0019	0.0032
Old Dan Bank	28			0.0011	0.0017	0.0020	0.0023	0.0016	0.0016	0.0031	0.0046
First Bay	29			0.0296	0.0189	0.0278	0.0209	0.0112	0.0097	0.0158	0.0105
Third Bay	30			0.0169	0.0199	0.0214	0.0150	0.0052	0.0071	0.0061	0.0104
Big Lostman's Bay	31			0.0103	0.0063	0.0127	0.0129	0.0086	0.0070	0.0109	0.0114
Cabbage Island	32			0.0161	0.0169	0.0149	0.0133	0.0068	0.0067	0.0067	0.0110
Broad River Bay	33			0.0211	0.0142	0.0315	0.0294	0.0099	0.0060	0.0144	0.0131
Middle Broad River	34			0.0415	0.0230	0.0641	0.0383	0.0190	0.0093	0.0263	0.0198
Mouth Broad River	35			0.0226	0.0144	0.0367	0.0268	0.0184	0.0090	0.0286	0.0182
S. Mouth Harney R.	36			0.0217	0.0202	0.0202	0.0253	0.0151	0.0125	0.0189	0.0148
Harney River Junction	37			0.0376	0.0128	0.0391	0.0332	0.0253	0.0111	0.0320	0.0205
Tarpon Bay	38			0.0319	0.0144	0.0392	0.0498	0.0228	0.0076	0.0268	0.0185
Gunboat Island	39			0.0369	0.0136	0.0337	0.0299	0.0276	0.0100	0.0281	0.0179
Ponce De Leon Bay	40			0.0243	0.0252	0.0340	0.0340	0.0243	0.0263	0.0134	0.0080
Oyster Bay	41			0.0286	0.0213	0.0321	0.0407	0.0211	0.0245	0.0054	0.0048
N of Marker 36	42			0.0080	0.0118	0.0196	0.0396	0.0126	0.0274	0.0053	0.0033
W of marker 34	43			0.0047	0.0096	0.0189	0.0492	0.0129	0.0419	0.0053	0.0012
Watson R. Chickee	44			0.0139	0.0074	0.0217	0.0203	0.0217	0.0288	0.0055	0.0053
Mouth North River	45			0.0079	0.0086	0.0263	0.0321	0.0292	0.0296	0.0048	0.0047
Midway Keys	46			0.0020	0.0016	0.0173	0.0344	0.0396	0.0844	0.0043	0.0041
Mouth of Roberts R.	47			0.0247	0.0224	0.0380	0.0340	0.0343	0.0291	0.0073	0.0072
W of Marker 18	48			0.0035	0.0052	0.0206	0.0312	0.0428	0.0689	0.0027	0.0012
SE of Marker 12	49			0.0025	0.0033	0.0198	0.0208	0.0384	0.0593	0.0032	0.0016
Coot Bay	50			0.0027	0.0036	0.0211	0.0226	0.0588	0.0893	0.0047	0.0041
All Stations		0.0148	0.0092	0.0132	0.0079	0.0198	0.0133	0.0163	0.0200	0.0134	0.0069

Table 4a: Florida Bay/Whitewater Bay Nitrite (mg/l of N)

Station Name	Station Number	N POR	Min POR	Max POR	Mean POR	S.D. POR	Coef. Var. POR
Card Sound Bridge	1	71	0.0004	0.0116	0.0046	0.0025	0.5340
Middle Bay	2	71	0.0006	0.0095	0.0036	0.0020	0.5745
Manatee Bay	3	71	0.0006	0.0084	0.0032	0.0021	0.6473
Barnes Sound	4	71	0.0005	0.0121	0.0034	0.0026	0.7585
Blackwater Sound	5	71	0.0006	0.0174	0.0044	0.0033	0.7403
L. Blackwater Snd	6	71	0.0007	0.0166	0.0047	0.0032	0.6925
Highway Creek	7	71	0.0001	0.0161	0.0024	0.0022	0.9543
Long Sound	8	71	0.0007	0.0178	0.0057	0.0039	0.6948
Duck Key	9	71	0.0004	0.0368	0.0074	0.0066	0.8819
Joe Bay	10	71	0.0001	0.0214	0.0042	0.0034	0.8074
L. Madeira Bay	11	71	0.0004	0.0211	0.0065	0.0046	0.7031
Terrapin Bay	12	71	0.0006	0.0323	0.0048	0.0058	1.1984
Whipray Basin	13	71	0.0005	0.0264	0.0041	0.0043	1.0556
Garfield Bight	14	70	0.0004	0.0232	0.0033	0.0041	1.2287
Rankin Lake	15	71	0.0004	0.0264	0.0038	0.0049	1.3078
Murray Key	16	70	0.0004	0.0135	0.0035	0.0032	0.9018
Johnson Key Basin	17	71	0.0005	0.0089	0.0022	0.0018	0.8086
Rabbit Key Basin	18	71	0.0000	0.0067	0.0019	0.0013	0.6807
Twin Key Basin	19	70	0.0004	0.0052	0.0018	0.0009	0.5226
Peterson Key	20	71	0.0005	0.0082	0.0032	0.0018	0.5633
Porpoise Lake	21	71	0.0005	0.0052	0.0021	0.0012	0.5613
Captain's Key	22	70	0.0005	0.0079	0.0034	0.0017	0.5069
Park Key	23	70	0.0008	0.0151	0.0052	0.0034	0.6453
Butternut Key	24	71	0.0014	0.0253	0.0079	0.0050	0.6291
East Cape	25	55	0.0002	0.0081	0.0027	0.0022	0.8130
Oxfoot Bank	26	54	0.0004	0.0101	0.0026	0.0021	0.8186
Sprigger Bank	27	54	0.0001	0.0092	0.0016	0.0014	0.8614
Old Dan Bank	28	54	0.0004	0.0108	0.0024	0.0018	0.7378
First Bay	29	52	0.0008	0.0067	0.0032	0.0014	0.4481
Third Bay	30	52	0.0006	0.0058	0.0023	0.0011	0.5005
Big Lostman's Bay	31	52	0.0009	0.0059	0.0019	0.0010	0.4933
Cabbage Island	32	52	0.0009	0.0055	0.0022	0.0011	0.4923
Broad River Bay	33	52	0.0010	0.0071	0.0024	0.0013	0.5260
Middle Broad River	34	52	0.0013	0.0093	0.0036	0.0019	0.5239
Mouth Broad River	35	52	0.0014	0.0083	0.0039	0.0017	0.4363
S. Mouth Harney R.	36	52	0.0010	0.0091	0.0036	0.0015	0.4196
Harney River Junction	37	52	0.0016	0.0121	0.0045	0.0022	0.4981
Tarpon Bay	38	52	0.0011	0.0088	0.0032	0.0016	0.5029
Gunboat Island	39	52	0.0010	0.0109	0.0036	0.0016	0.4514
Ponce De Leon Bay	40	52	0.0010	0.0099	0.0039	0.0018	0.4647
Oyster Bay	41	52	0.0013	0.0095	0.0038	0.0020	0.5300
N of Marker 36	42	52	0.0007	0.0190	0.0032	0.0033	1.0427
W of marker 34	43	52	0.0004	0.0746	0.0042	0.0104	2.5134
Watson R. Chickee	44	52	0.0011	0.0144	0.0038	0.0026	0.6943
Mouth North River	45	52	0.0008	0.0374	0.0043	0.0055	1.2953
Midway Keys	46	52	0.0006	0.0654	0.0052	0.0105	2.0352
Mouth of Roberts R.	47	52	0.0009	0.0221	0.0039	0.0034	0.8837
W of Marker 18	48	52	0.0007	0.0364	0.0060	0.0087	1.4440
SE of Marker 12	49	52	0.0008	0.0620	0.0076	0.0112	1.4763
Coot Bay	50	52	0.0008	0.1064	0.0101	0.0171	1.6930
All Stations		50	0.0000	0.1064	0.0039	0.0032	0.8026

POR = Period of Record as indicated on Table 1.

Table 4b: Florida Bay/Whitewater Bay Nitrite (mg/l of N)

Station Name	Station Number	Mean 1992	S.D. 1992	Mean 1993	S.D. 1993	Mean 1994	S.D. 1994	Mean 1995	S.D. 1995	Mean 1996	S.D. 1996
Card Sound Bridge	1	0.0035	0.0028	0.0039	0.0026	0.0071	0.0023	0.0043	0.0018	0.0044	0.0017
Middle Bay	2	0.0034	0.0026	0.0040	0.0020	0.0050	0.0020	0.0028	0.0015	0.0029	0.0016
Manatee Bay	3	0.0021	0.0013	0.0030	0.0017	0.0044	0.0026	0.0036	0.0021	0.0034	0.0024
Barnes Sound	4	0.0020	0.0018	0.0024	0.0021	0.0048	0.0029	0.0041	0.0019	0.0048	0.0028
Blackwater Sound	5	0.0048	0.0031	0.0063	0.0041	0.0068	0.0029	0.0027	0.0018	0.0034	0.0028
L. Blackwater Snd	6	0.0064	0.0038	0.0047	0.0029	0.0047	0.0020	0.0050	0.0044	0.0046	0.0030
Highway Creek	7	0.0040	0.0042	0.0027	0.0026	0.0021	0.0009	0.0013	0.0007	0.0021	0.0006
Long Sound	8	0.0081	0.0050	0.0054	0.0038	0.0061	0.0036	0.0047	0.0034	0.0055	0.0044
Duck Key	9	0.0161	0.0090	0.0075	0.0033	0.0067	0.0037	0.0035	0.0024	0.0041	0.0033
Joe Bay	10	0.0077	0.0046	0.0029	0.0015	0.0039	0.0028	0.0019	0.0013	0.0024	0.0015
L. Madeira Bay	11	0.0121	0.0049	0.0038	0.0028	0.0065	0.0020	0.0045	0.0027	0.0073	0.0051
Terrapin Bay	12	0.0024	0.0009	0.0022	0.0021	0.0029	0.0018	0.0071	0.0049	0.0125	0.0088
Whipray Basin	13	0.0019	0.0006	0.0029	0.0026	0.0037	0.0023	0.0062	0.0036	0.0061	0.0074
Garfield Bight	14	0.0023	0.0012	0.0020	0.0012	0.0024	0.0012	0.0025	0.0020	0.0085	0.0077
Rankin Lake	15	0.0018	0.0009	0.0020	0.0010	0.0027	0.0021	0.0041	0.0030	0.0105	0.0085
Murray Key	16	0.0031	0.0024	0.0050	0.0036	0.0041	0.0026	0.0021	0.0021	0.0045	0.0046
Johnson Key Basin	17	0.0013	0.0005	0.0027	0.0016	0.0035	0.0025	0.0018	0.0012	0.0026	0.0021
Rabbit Key Basin	18	0.0013	0.0007	0.0020	0.0009	0.0029	0.0019	0.0013	0.0007	0.0016	0.0013
Twin Key Basin	19	0.0019	0.0005	0.0018	0.0014	0.0024	0.0012	0.0016	0.0007	0.0016	0.0006
Peterson Key	20	0.0041	0.0017	0.0023	0.0013	0.0029	0.0019	0.0028	0.0020	0.0029	0.0012
Porpoise Lake	21	0.0017	0.0007	0.0024	0.0009	0.0024	0.0011	0.0020	0.0011	0.0027	0.0016
Captain's Key	22	0.0049	0.0014	0.0031	0.0016	0.0032	0.0011	0.0029	0.0019	0.0040	0.0021
Park Key	23	0.0093	0.0030	0.0042	0.0021	0.0065	0.0022	0.0040	0.0031	0.0037	0.0030
Butternut Key	24	0.0123	0.0052	0.0085	0.0043	0.0093	0.0038	0.0050	0.0034	0.0077	0.0057
East Cape	25			0.0041	0.0023	0.0031	0.0023	0.0017	0.0014	0.0020	0.0024
Oxfoot Bank	26			0.0028	0.0024	0.0037	0.0028	0.0014	0.0010	0.0021	0.0018
Sprigger Bank	27			0.0018	0.0024	0.0022	0.0011	0.0012	0.0010	0.0010	0.0008
Old Dan Bank	28			0.0018	0.0010	0.0035	0.0028	0.0018	0.0010	0.0019	0.0013
First Bay	29			0.0037	0.0013	0.0042	0.0016	0.0018	0.0004	0.0029	0.0011
Third Bay	30			0.0025	0.0012	0.0032	0.0010	0.0013	0.0002	0.0018	0.0008
Big Lostman's Bay	31			0.0021	0.0007	0.0026	0.0013	0.0011	0.0002	0.0018	0.0008
Cabbage Island	32			0.0027	0.0012	0.0027	0.0010	0.0014	0.0004	0.0019	0.0011
Broad River Bay	33			0.0028	0.0011	0.0032	0.0016	0.0014	0.0003	0.0020	0.0010
Middle Broad River	34			0.0043	0.0013	0.0056	0.0023	0.0020	0.0007	0.0029	0.0010
Mouth Broad River	35			0.0041	0.0013	0.0050	0.0022	0.0029	0.0012	0.0040	0.0017
S. Mouth Harney R.	36			0.0039	0.0015	0.0041	0.0020	0.0027	0.0011	0.0035	0.0012
Harney River Junction	37			0.0049	0.0012	0.0062	0.0034	0.0028	0.0008	0.0040	0.0012
Tarpon Bay	38			0.0036	0.0010	0.0039	0.0024	0.0020	0.0005	0.0029	0.0010
Gunboat Island	39			0.0041	0.0009	0.0044	0.0026	0.0025	0.0009	0.0033	0.0009
Ponce De Leon Bay	40			0.0037	0.0016	0.0041	0.0022	0.0036	0.0014	0.0043	0.0021
Oyster Bay	41			0.0044	0.0013	0.0046	0.0028	0.0029	0.0016	0.0029	0.0012
N of Marker 36	42			0.0030	0.0013	0.0048	0.0055	0.0017	0.0011	0.0018	0.0007
W of marker 34	43			0.0024	0.0011	0.0094	0.0209	0.0015	0.0009	0.0015	0.0003
Watson R. Chickee	44			0.0040	0.0015	0.0059	0.0037	0.0027	0.0014	0.0018	0.0008
Mouth North River	45			0.0032	0.0016	0.0078	0.0100	0.0031	0.0019	0.0015	0.0004
Midway Keys	46			0.0023	0.0009	0.0111	0.0198	0.0026	0.0026	0.0015	0.0004
Mouth of Roberts R.	47			0.0038	0.0018	0.0060	0.0054	0.0026	0.0012	0.0018	0.0007
W of Marker 18	48			0.0031	0.0033	0.0092	0.0122	0.0066	0.0101	0.0018	0.0006
SE of Marker 12	49			0.0041	0.0021	0.0111	0.0123	0.0095	0.0173	0.0021	0.0011
Coot Bay	50			0.0029	0.0015	0.0132	0.0120	0.0168	0.0298	0.0024	0.0010
All Stations		0.0049	0.0021	0.0035	0.0009	0.0050	0.0044	0.0033	0.0048	0.0035	0.0021

Table 5a: Florida Bay/Whitewater Bay Ammonium (mg/l of N)

Station Name	Station Number	N POR	Min POR	Max POR	Mean POR	S.D. POR	Coef. Var. POR
Card Sound Bridge	1	71	0.0069	0.3311	0.0565	0.0490	0.8673
Middle Bay	2	71	0.0051	0.2920	0.0502	0.0424	0.8434
Manatee Bay	3	71	0.0110	0.1524	0.0514	0.0320	0.6231
Barnes Sound	4	71	0.0036	0.3131	0.0528	0.0497	0.9401
Blackwater Sound	5	71	0.0076	0.2082	0.0442	0.0364	0.8224
L. Blackwater Snd	6	71	0.0033	0.5549	0.0838	0.0960	1.1458
Highway Creek	7	71	0.0139	0.4335	0.0737	0.0764	1.0366
Long Sound	8	71	0.0104	0.2539	0.0791	0.0659	0.8333
Duck Key	9	71	0.0059	0.6313	0.0894	0.1041	1.1640
Joe Bay	10	71	0.0058	0.3565	0.0599	0.0564	0.9414
L. Madeira Bay	11	71	0.0086	0.6902	0.1364	0.1305	0.9568
Terrapin Bay	12	69	0.0059	1.6805	0.2467	0.3094	1.2541
Whipray Basin	13	70	0.0055	0.5889	0.1660	0.1618	0.9744
Garfield Bight	14	69	0.0000	0.7025	0.1164	0.1577	1.3542
Rankin Lake	15	71	0.0036	0.6578	0.1060	0.1486	1.4041
Murray Key	16	70	0.0000	0.2626	0.0306	0.0396	1.2929
Johnson Key Basin	17	71	0.0000	0.3422	0.0455	0.0573	1.2586
Rabbit Key Basin	18	71	0.0028	0.1932	0.0278	0.0362	1.3025
Twin Key Basin	19	70	0.0044	0.1079	0.0354	0.0229	0.6471
Peterson Key	20	71	0.0019	0.1546	0.0419	0.0261	0.6214
Porpoise Lake	21	70	0.0031	0.3680	0.0780	0.0881	1.1296
Captain's Key	22	70	0.0158	0.8049	0.1642	0.1620	0.9866
Park Key	23	70	0.0083	1.1493	0.1711	0.2037	1.1910
Butternut Key	24	71	0.0011	0.8979	0.1613	0.1711	1.0606
East Cape	25	55	0.0025	0.1024	0.0249	0.0236	0.9491
Oxfoot Bank	26	54	0.0023	0.1350	0.0246	0.0279	1.1339
Sprigger Bank	27	54	0.0005	0.1096	0.0130	0.0153	1.1706
Old Dan Bank	28	54	0.0004	0.1740	0.0183	0.0241	1.3144
First Bay	29	52	0.0061	0.0807	0.0266	0.0169	0.6363
Third Bay	30	52	0.0030	0.0431	0.0167	0.0108	0.6447
Big Lostman's Bay	31	52	0.0040	0.3903	0.0285	0.0528	1.8485
Cabbage Island	32	52	0.0035	0.0496	0.0146	0.0105	0.7163
Broad River Bay	33	52	0.0037	0.1551	0.0231	0.0240	1.0399
Middle Broad River	34	52	0.0050	0.0790	0.0255	0.0158	0.6186
Mouth Broad River	35	52	0.0043	0.0641	0.0288	0.0156	0.5425
S. Mouth Harney R.	36	52	0.0004	0.0873	0.0251	0.0172	0.6868
Harney River Junction	37	52	0.0058	0.1393	0.0295	0.0258	0.8765
Tarpon Bay	38	52	0.0044	0.4024	0.0461	0.0743	1.6110
Gunboat Island	39	52	0.0044	0.2986	0.0292	0.0473	1.6193
Ponce De Leon Bay	40	52	0.0016	0.0471	0.0169	0.0102	0.6039
Oyster Bay	41	52	0.0019	0.0570	0.0158	0.0113	0.7152
N of Marker 36	42	52	0.0022	0.1064	0.0172	0.0175	1.0184
W of marker 34	43	52	0.0031	0.0940	0.0168	0.0174	1.0392
Watson R. Chickee	44	52	0.0030	0.1234	0.0325	0.0273	0.8414
Mouth North River	45	52	0.0028	0.1254	0.0274	0.0253	0.9228
Midway Keys	46	52	0.0029	0.2832	0.0261	0.0494	1.8920
Mouth of Roberts R.	47	52	0.0041	0.0813	0.0283	0.0206	0.7277
W of Marker 18	48	52	0.0029	0.2099	0.0332	0.0446	1.3427
SE of Marker 12	49	52	0.0033	0.3008	0.0507	0.0733	1.4469
Coot Bay	50	52	0.0034	1.0456	0.1287	0.2030	1.5774
All Stations		50	0.0000	1.6805	0.0587	0.0641	1.0915

POR = Period of Record as indicated on Table 1.

Table 5b: Florida Bay/Whitewater Bay Ammonium (mg/l of N)

Station Name	Station Number	Mean 1992	S.D. 1992	Mean 1993	S.D. 1993	Mean 1994	S.D. 1994	Mean 1995	S.D. 1995	Mean 1996	S.D. 1996
Card Sound Bridge	1	0.0512	0.0377	0.0414	0.0255	0.1145	0.0760	0.0445	0.0198	0.0471	0.0320
Middle Bay	2	0.0528	0.0323	0.0674	0.0721	0.0694	0.0419	0.0307	0.0230	0.0298	0.0187
Manatee Bay	3	0.0560	0.0386	0.0538	0.0269	0.0643	0.0435	0.0417	0.0264	0.0422	0.0259
Barnes Sound	4	0.0332	0.0361	0.0353	0.0301	0.1015	0.0786	0.0539	0.0135	0.0563	0.0422
Blackwater Sound	5	0.0632	0.0587	0.0501	0.0236	0.0552	0.0373	0.0289	0.0142	0.0309	0.0276
L. Blackwater Snd	6	0.1749	0.1805	0.0898	0.0517	0.0578	0.0282	0.0410	0.0288	0.0520	0.0465
Highway Creek	7	0.1059	0.1175	0.0807	0.0426	0.0546	0.0381	0.0247	0.0100	0.0565	0.0681
Long Sound	8	0.0948	0.0778	0.0807	0.0536	0.0743	0.0596	0.0421	0.0323	0.0739	0.0759
Duck Key	9	0.2268	0.1711	0.0814	0.0471	0.0743	0.0785	0.0292	0.0225	0.0487	0.0340
Joe Bay	10	0.1096	0.0827	0.0410	0.0225	0.0478	0.0224	0.0252	0.0125	0.0309	0.0217
L. Madeira Bay	11	0.2972	0.1975	0.0843	0.0609	0.1460	0.0961	0.0507	0.0360	0.0973	0.0727
Terrapin Bay	12	0.4590	0.5857	0.0230	0.0122	0.1650	0.1938	0.2543	0.1884	0.3111	0.1298
Whipray Basin	13	0.1974	0.1836	0.0431	0.0608	0.1375	0.1761	0.2628	0.1862	0.2377	0.1176
Garfield Bight	14	0.0834	0.1122	0.0568	0.0922	0.0968	0.1396	0.1303	0.1533	0.2778	0.2173
Rankin Lake	15	0.0775	0.1096	0.0446	0.0414	0.0433	0.0569	0.1380	0.1306	0.2870	0.2325
Murray Key	16	0.0254	0.0111	0.0392	0.0248	0.0416	0.0434	0.0164	0.0173	0.0418	0.0761
Johnson Key Basin	17	0.0208	0.0142	0.0714	0.0568	0.0623	0.0533	0.0279	0.0185	0.0703	0.1014
Rabbit Key Basin	18	0.0136	0.0033	0.0299	0.0224	0.0602	0.0534	0.0142	0.0058	0.0302	0.0527
Twin Key Basin	19	0.0476	0.0222	0.0215	0.0210	0.0386	0.0281	0.0376	0.0262	0.0322	0.0169
Peterson Key	20	0.0529	0.0236	0.0284	0.0180	0.0507	0.0415	0.0353	0.0222	0.0363	0.0196
Porpoise Lake	21	0.0347	0.0281	0.0494	0.0280	0.0874	0.1118	0.1264	0.1057	0.1412	0.1026
Captain's Key	22	0.2983	0.2815	0.0950	0.0366	0.1702	0.1644	0.1359	0.0975	0.1833	0.1001
Park Key	23	0.4554	0.3021	0.0829	0.0497	0.1714	0.1221	0.0601	0.0359	0.1135	0.0965
Butternut Key	24	0.4251	0.2462	0.1367	0.0585	0.1244	0.0869	0.0479	0.0256	0.1387	0.0997
East Cape	25			0.0384	0.0245	0.0329	0.0319	0.0109	0.0071	0.0165	0.0190
Oxfoot Bank	26			0.0312	0.0279	0.0390	0.0414	0.0086	0.0060	0.0167	0.0194
Sprigger Bank	27			0.0227	0.0285	0.0158	0.0079	0.0061	0.0055	0.0064	0.0032
Old Dan Bank	28			0.0278	0.0465	0.0220	0.0143	0.0094	0.0070	0.0117	0.0102
First Bay	29			0.0327	0.0106	0.0275	0.0137	0.0126	0.0063	0.0249	0.0197
Third Bay	30			0.0202	0.0073	0.0231	0.0117	0.0084	0.0044	0.0115	0.0094
Big Lostman's Bay	31			0.0243	0.0110	0.0510	0.1075	0.0145	0.0059	0.0212	0.0168
Cabbage Island	32			0.0146	0.0066	0.0184	0.0138	0.0093	0.0046	0.0125	0.0125
Broad River Bay	33			0.0232	0.0133	0.0326	0.0409	0.0126	0.0068	0.0189	0.0211
Middle Broad River	34			0.0265	0.0105	0.0335	0.0211	0.0149	0.0049	0.0246	0.0188
Mouth Broad River	35			0.0217	0.0146	0.0336	0.0131	0.0211	0.0096	0.0360	0.0201
S. Mouth Harney R.	36			0.0242	0.0147	0.0278	0.0198	0.0198	0.0155	0.0206	0.0154
Harney River Junction	37			0.0300	0.0164	0.0382	0.0340	0.0149	0.0055	0.0230	0.0112
Tarpon Bay	38			0.0409	0.0232	0.0576	0.1108	0.0181	0.0068	0.0333	0.0336
Gunboat Island	39			0.0276	0.0206	0.0399	0.0817	0.0137	0.0075	0.0179	0.0139
Ponce De Leon Bay	40			0.0134	0.0039	0.0196	0.0095	0.0150	0.0126	0.0151	0.0067
Oyster Bay	41			0.0164	0.0068	0.0201	0.0088	0.0114	0.0107	0.0091	0.0052
N of Marker 36	42			0.0174	0.0076	0.0235	0.0127	0.0067	0.0041	0.0079	0.0054
W of marker 34	43			0.0139	0.0061	0.0279	0.0238	0.0069	0.0044	0.0097	0.0062
Watson R. Chickee	44			0.0462	0.0242	0.0520	0.0292	0.0135	0.0137	0.0134	0.0145
Mouth North River	45			0.0274	0.0190	0.0486	0.0317	0.0131	0.0114	0.0134	0.0165
Midway Keys	46			0.0172	0.0078	0.0609	0.0905	0.0070	0.0047	0.0077	0.0047
Mouth of Roberts R.	47			0.0286	0.0177	0.0476	0.0219	0.0185	0.0131	0.0130	0.0065
W of Marker 18	48			0.0223	0.0283	0.0640	0.0654	0.0235	0.0357	0.0088	0.0051
SE of Marker 12	49			0.0218	0.0153	0.1185	0.1069	0.0435	0.0695	0.0089	0.0055
Coot Bay	50			0.0267	0.0252	0.2338	0.2347	0.1149	0.1199	0.0269	0.0544
All Stations		0.1440	0.1331	0.0417	0.0195	0.0664	0.0522	0.0434	0.0470	0.0579	0.0508

Table 6a: Florida Bay/Whitewater Bay Total Nitrogen (mg/l of N)

Station Name	Station Number	N POR	Min POR	Max POR	Mean POR	S.D. POR	Coef. Var. POR
Card Sound Bridge	1	71	0.3057	1.8403	0.6177	0.2108	0.3412
Middle Bay	2	71	0.2712	3.1425	0.6786	0.3505	0.5166
Manatee Bay	3	71	0.2812	1.5084	0.6892	0.1734	0.2516
Barnes Sound	4	71	0.2577	0.9804	0.6309	0.1426	0.2260
Blackwater Sound	5	71	0.2681	1.0164	0.6637	0.1312	0.1977
L. Blackwater Snd	6	71	0.2917	1.1811	0.7345	0.1613	0.2196
Highway Creek	7	71	0.3984	1.6048	0.8338	0.2678	0.3211
Long Sound	8	71	0.2987	1.1859	0.7781	0.1729	0.2223
Duck Key	9	71	0.4550	1.6091	0.7936	0.1875	0.2362
Joe Bay	10	71	0.4900	1.8649	0.8954	0.2335	0.2608
L. Madeira Bay	11	71	0.5166	1.8510	0.8956	0.2092	0.2336
Terrapin Bay	12	71	0.8540	4.2861	1.5132	0.4942	0.3266
Whipray Basin	13	71	0.6515	2.5595	1.3168	0.4060	0.3083
Garfield Bight	14	70	0.4827	4.4083	1.6186	0.7162	0.4425
Rankin Lake	15	71	0.4363	2.5349	1.3165	0.5411	0.4110
Murray Key	16	71	0.2170	1.5079	0.5571	0.2385	0.4282
Johnson Key Basin	17	71	0.2695	1.6909	0.6488	0.2765	0.4261
Rabbit Key Basin	18	71	0.2336	1.5456	0.6293	0.2960	0.4704
Twin Key Basin	19	70	0.2916	1.5335	0.8362	0.3168	0.3789
Peterson Key	20	71	0.2138	1.5011	0.6892	0.2514	0.3648
Porpoise Lake	21	71	0.5056	1.7605	1.0174	0.2855	0.2806
Captain's Key	22	70	0.5815	1.4424	0.9762	0.2141	0.2193
Park Key	23	70	0.5604	1.6193	0.8648	0.1874	0.2167
Butternut Key	24	71	0.4770	2.0968	0.8314	0.2214	0.2663
East Cape	25	55	0.1880	0.7652	0.3827	0.1101	0.2877
Oxfoot Bank	26	55	0.1140	0.9934	0.3848	0.1497	0.3890
Sprigger Bank	27	55	0.1255	1.1125	0.3416	0.1824	0.5340
Old Dan Bank	28	55	0.1502	0.8008	0.3302	0.1243	0.3766
First Bay	29	52	0.4318	1.1065	0.7124	0.1516	0.2128
Third Bay	30	52	0.4527	1.1970	0.8078	0.1503	0.1860
Big Lostman's Bay	31	52	0.5337	1.3060	0.8475	0.1655	0.1953
Cabbage Island	32	52	0.5253	1.2846	0.8829	0.1677	0.1900
Broad River Bay	33	52	0.1667	1.3942	0.9057	0.2019	0.2229
Middle Broad River	34	52	0.5849	1.2387	0.8964	0.1685	0.1880
Mouth Broad River	35	52	0.4480	2.3624	0.8311	0.2773	0.3337
S. Mouth Harney R.	36	52	0.4158	2.2745	0.7590	0.3070	0.4045
Harney River Junction	37	52	0.5537	3.0455	1.0256	0.3735	0.3642
Tarpon Bay	38	52	0.7360	2.9512	1.1814	0.3546	0.3002
Gunboat Island	39	52	0.5227	2.8867	1.0244	0.3750	0.3661
Ponce De Leon Bay	40	52	0.3457	1.6225	0.5690	0.1900	0.3339
Oyster Bay	41	52	0.1590	1.8101	0.6344	0.2207	0.3478
N of Marker 36	42	52	0.4358	2.0687	0.8255	0.2565	0.3107
W of marker 34	43	52	0.5289	1.8218	0.9096	0.2270	0.2496
Watson R. Chickee	44	52	0.6033	2.5880	0.9651	0.2852	0.2955
Mouth North River	45	52	0.6779	2.1025	0.9985	0.2299	0.2302
Midway Keys	46	52	0.6728	1.7918	1.0235	0.2185	0.2134
Mouth of Roberts R.	47	52	0.6043	1.6750	1.0022	0.2338	0.2333
W of Marker 18	48	52	0.6562	2.1156	1.0962	0.2841	0.2592
SE of Marker 12	49	52	0.6734	2.0056	1.1346	0.2495	0.2199
Coot Bay	50	51	0.7985	2.1476	1.3960	0.2793	0.2001
All Stations		50	0.1140	4.4083	0.8579	0.1117	0.1303

POR = Period of Record as indicated on Table 1.

Table 6b: Florida Bay/Whitewater Bay Total Nitrogen (mg/l of N)

Station Name	Station Number	Mean 1992	S.D. 1992	Mean 1993	S.D. 1993	Mean 1994	S.D. 1994	Mean 1995	S.D. 1995	Mean 1996	S.D. 1996
Card Sound Bridge	1	0.6106	0.1578	0.5570	0.1152	0.6903	0.1138	0.6130	0.1195	0.5269	0.1237
Middle Bay	2	0.6499	0.1748	0.6792	0.3110	0.6814	0.1612	0.6681	0.1502	0.5612	0.1351
Manatee Bay	3	0.6629	0.1674	0.6248	0.1340	0.6989	0.1814	0.7193	0.1415	0.6452	0.1205
Barnes Sound	4	0.6397	0.1752	0.5710	0.1287	0.6976	0.1820	0.6685	0.1031	0.5947	0.1336
Blackwater Sound	5	0.7183	0.1651	0.6044	0.1284	0.7113	0.1708	0.6721	0.0847	0.5981	0.0855
L. Blackwater Snd	6	0.7924	0.1771	0.7117	0.1621	0.7191	0.1991	0.7425	0.1089	0.6607	0.1097
Highway Creek	7	0.8695	0.2118	0.8259	0.2681	0.8218	0.2943	0.7949	0.2269	0.7847	0.1945
Long Sound	8	0.8081	0.2162	0.7477	0.1843	0.7923	0.2168	0.7617	0.1356	0.7369	0.1383
Duck Key	9	0.9375	0.2129	0.7057	0.1360	0.7978	0.1315	0.6966	0.0597	0.7210	0.0847
Joe Bay	10	0.8958	0.2203	0.8661	0.2402	0.8162	0.1860	0.8869	0.1180	0.9195	0.2137
L. Madeira Bay	11	0.9904	0.1596	0.7890	0.1759	0.8968	0.1814	0.7913	0.0824	0.8721	0.1344
Terrapin Bay	12	1.5671	0.3542	1.4961	0.4588	1.4485	0.3467	1.4153	0.3152	1.3175	0.2766
Whipray Basin	13	1.3030	0.6238	1.4479	0.4775	1.3370	0.3529	1.3217	0.2659	1.1626	0.3298
Garfield Bight	14	1.7024	1.1566	1.7767	0.6520	1.7105	0.6033	1.4833	0.4957	1.3384	0.5548
Rankin Lake	15	1.2566	0.6833	1.3769	0.6894	1.5336	0.4934	1.2382	0.4840	1.2846	0.4364
Murray Key	16	0.4750	0.1506	0.4994	0.1618	0.6810	0.2476	0.5901	0.2150	0.5884	0.3255
Johnson Key Basin	17	0.5888	0.2445	0.5874	0.1845	0.7363	0.3360	0.6319	0.1512	0.7325	0.3621
Rabbit Key Basin	18	0.7090	0.4489	0.5383	0.1619	0.6420	0.3018	0.5975	0.1956	0.6081	0.2735
Twin Key Basin	19	0.8120	0.3844	0.9570	0.3100	0.8523	0.3776	0.7476	0.2250	0.6282	0.2015
Peterson Key	20	0.6412	0.2579	0.7510	0.3728	0.6997	0.1658	0.7010	0.2073	0.6053	0.2210
Porpoise Lake	21	0.9776	0.2510	1.1321	0.3660	1.0073	0.2742	1.0457	0.2175	0.9869	0.3427
Captain's Key	22	1.0407	0.2542	0.9704	0.2576	1.0003	0.2118	0.9383	0.2077	0.9303	0.1701
Park Key	23	1.0331	0.1755	0.7704	0.1073	0.8994	0.2415	0.7529	0.0895	0.8147	0.1200
Butternut Key	24	1.0037	0.1540	0.7717	0.1122	0.8137	0.1171	0.6663	0.0401	0.8148	0.1368
East Cape	25			0.3832	0.0755	0.4409	0.1558	0.3505	0.0667	0.3721	0.1112
Oxfoot Bank	26			0.3660	0.0960	0.4575	0.2282	0.3395	0.0640	0.3369	0.1321
Sprigger Bank	27			0.3803	0.1895	0.3269	0.1332	0.2954	0.0657	0.2848	0.1099
Old Dan Bank	28			0.3294	0.0679	0.3409	0.1441	0.3147	0.0634	0.3382	0.1892
First Bay	29			0.7660	0.1769	0.6293	0.1701	0.6790	0.1197	0.7320	0.1102
Third Bay	30			0.8519	0.1733	0.7534	0.1477	0.7630	0.1450	0.8000	0.0925
Big Lostman's Bay	31			0.9173	0.2012	0.8513	0.1703	0.7433	0.1560	0.8567	0.0996
Cabbage Island	32			0.9361	0.1900	0.8441	0.1654	0.7692	0.1642	0.9456	0.1084
Broad River Bay	33			0.9588	0.2050	0.8381	0.2715	0.8313	0.1963	0.9644	0.0914
Middle Broad River	34			0.9312	0.1739	0.8768	0.1808	0.8379	0.1791	0.8947	0.1419
Mouth Broad River	35			0.8209	0.2306	0.7628	0.1717	0.8030	0.1555	0.7917	0.1616
S. Mouth Harney R.	36			0.7778	0.3167	0.6725	0.1413	0.7253	0.1694	0.7021	0.2208
Harney River Junction	37			1.0852	0.3075	0.9032	0.1723	0.9241	0.2002	0.9550	0.2320
Tarpon Bay	38			1.2840	0.2497	1.1276	0.1994	1.0146	0.2881	1.1025	0.1830
Gunboat Island	39			1.0950	0.3514	0.8962	0.2124	0.9785	0.2064	0.9137	0.2409
Ponce De Leon Bay	40			0.5250	0.1273	0.4839	0.1035	0.6188	0.0915	0.5622	0.1320
Oyster Bay	41			0.5902	0.1204	0.5313	0.1718	0.6919	0.0896	0.5925	0.1328
N of Marker 36	42			0.7928	0.1643	0.6862	0.1942	0.8888	0.1786	0.8147	0.1718
W of marker 34	43			0.8841	0.2004	0.7759	0.1968	0.9476	0.1809	0.9535	0.1388
Watson R. Chickee	44			0.9747	0.1652	0.8339	0.1721	0.9875	0.1897	0.9106	0.1346
Mouth North River	45			1.0207	0.1730	0.8926	0.1232	1.0013	0.2415	0.9991	0.1018
Midway Keys	46			1.0690	0.2280	0.9187	0.1638	1.0041	0.2292	1.0516	0.1316
Mouth of Roberts R.	47			1.0456	0.2274	0.9519	0.1635	0.9451	0.2962	1.0637	0.1884
W of Marker 18	48			1.1972	0.3806	1.0014	0.1513	1.0169	0.2138	1.1237	0.1564
SE of Marker 12	49			1.2386	0.3596	1.0830	0.1699	1.0841	0.2424	1.1750	0.1908
Coot Bay	50			1.4565	0.4411	1.3415	0.2776	1.3532	0.2509	1.4245	0.1430
All Stations		0.9035	0.2319	0.8687	0.1344	0.8381	0.0952	0.8211	0.0936	0.8219	0.0955

Table 7a: Florida Bay/Whitewater Bay Total Inorganic Nitrogen (mg/l of N)

Station Name	Station Number	N POR	Min POR	Max POR	Mean POR	S.D. POR	Coef. Var. POR
Card Sound Bridge	1	71	0.0078	0.4075	0.0874	0.0845	0.7374
Middle Bay	2	71	0.0083	0.3027	0.0847	0.0492	0.7804
Manatee Bay	3	71	0.0117	0.2482	0.0672	0.0478	0.7113
Barnes Sound	4	71	0.0064	0.3738	0.0662	0.0610	0.9216
Blackwater Sound	5	71	0.0090	0.2415	0.0605	0.0449	0.7420
L. Blackwater Snd	6	71	0.0050	0.5764	0.1032	0.1013	0.9816
Highway Creek	7	71	0.0177	0.4519	0.0835	0.0794	0.9514
Long Sound	8	71	0.0122	0.2762	0.1060	0.0737	0.8949
Duck Key	9	71	0.0068	0.6866	0.1358	0.1245	0.9165
Joe Bay	10	71	0.0069	0.3785	0.0914	0.0721	0.7891
L. Madeira Bay	11	71	0.0102	0.7442	0.1623	0.1400	0.8628
Terrapin Bay	12	69	0.0082	1.6866	0.2584	0.3130	1.2112
Whipray Basin	13	70	0.0070	0.5986	0.1751	0.1663	0.9501
Garfield Bight	14	69	0.0027	0.7382	0.1238	0.1641	1.3255
Rankin Lake	15	71	0.0040	0.6999	0.1141	0.1573	1.3789
Murray Key	16	70	0.0009	0.3122	0.0459	0.0547	1.1921
Johnson Key Basin	17	71	0.0006	0.3557	0.0509	0.0620	1.2180
Rabbit Key Basin	18	71	0.0037	0.2019	0.0319	0.0381	1.1940
Twin Key Basin	19	70	0.0057	0.1154	0.0396	0.0243	0.6135
Peterson Key	20	71	0.0044	0.1619	0.0505	0.0298	0.5905
Porpoise Lake	21	70	0.0064	0.3814	0.0834	0.0903	1.0832
Captain's Key	22	70	0.0225	0.8175	0.1765	0.1653	0.9362
Park Key	23	70	0.0134	1.1781	0.1963	0.2117	1.0784
Butternut Key	24	71	0.0088	0.9524	0.2057	0.1826	0.8875
East Cape	25	55	0.0029	0.1358	0.0345	0.0312	0.9020
Oxfoot Bank	26	54	0.0032	0.1548	0.0323	0.0329	1.0194
Sprigger Bank	27	54	0.0027	0.1126	0.0168	0.0173	1.0323
Old Dan Bank	28	54	0.0016	0.1784	0.0228	0.0254	1.1146
First Bay	29	52	0.0099	0.1200	0.0516	0.0294	0.5695
Third Bay	30	52	0.0043	0.0986	0.0327	0.0245	0.7504
Big Lostman's Bay	31	52	0.0050	0.4289	0.0408	0.0585	1.4344
Cabbage Island	32	52	0.0047	0.0880	0.0276	0.0210	0.7608
Broad River Bay	33	52	0.0054	0.2448	0.0437	0.0400	0.9154
Middle Broad River	34	52	0.0082	0.1975	0.0647	0.0424	0.6561
Mouth Broad River	35	52	0.0095	0.1458	0.0581	0.0302	0.5204
S. Mouth Harney R.	36	52	0.0037	0.1925	0.0469	0.0331	0.7074
Harney River Junction	37	52	0.0175	0.2564	0.0672	0.0457	0.6808
Tarpon Bay	38	52	0.0100	0.4853	0.0788	0.0872	1.1055
Gunboat Island	39	52	0.0194	0.4325	0.0644	0.0648	1.0062
Ponce De Leon Bay	40	52	0.0055	0.1560	0.0450	0.0319	0.7095
Oyster Bay	41	52	0.0051	0.1659	0.0430	0.0387	0.8996
N of Marker 36	42	52	0.0034	0.2227	0.0345	0.0432	1.2519
W of marker 34	43	52	0.0043	0.3423	0.0336	0.0549	1.6319
Watson R. Chickee	44	52	0.0051	0.1716	0.0529	0.0421	0.7949
Mouth North River	45	52	0.0049	0.2517	0.0500	0.0489	0.9782
Midway Keys	46	52	0.0040	0.4024	0.0490	0.0845	1.7256
Mouth of Roberts R.	47	52	0.0053	0.1997	0.0603	0.0481	0.7972
W of Marker 18	48	52	0.0041	0.3501	0.0593	0.0812	1.3693
SE of Marker 12	49	52	0.0044	0.4501	0.0776	0.1067	1.3751
Coot Bay	50	52	0.0041	1.1088	0.1619	0.2364	1.4605
All Stations		50	0.0006	1.6866	0.0786	0.0628	0.7985

POR = Period of Record as indicated on Table 1.

Table 7b: Florida Bay/Whitewater Bay Total Inorganic Nitrogen (mg/l of N)

Station Name	Station Number	Mean 1992	S.D. 1992	Mean 1993	S.D. 1993	Mean 1994	S.D. 1994	Mean 1995	S.D. 1995	Mean 1996	S.D. 1996
Card Sound Bridge	1	0.0709	0.0502	0.0610	0.0423	0.1628	0.0891	0.0763	0.0324	0.0864	0.0410
Middle Bay	2	0.0628	0.0409	0.0613	0.0724	0.0905	0.0571	0.0448	0.0304	0.0454	0.0288
Manatee Bay	3	0.0619	0.0418	0.0612	0.0312	0.0944	0.0730	0.0646	0.0523	0.0584	0.0378
Barnes Sound	4	0.0370	0.0374	0.0412	0.0366	0.1195	0.0956	0.0755	0.0217	0.0763	0.0560
Blackwater Sound	5	0.0766	0.0676	0.0676	0.0358	0.0836	0.0422	0.0431	0.0252	0.0439	0.0357
L. Blackwater Snd	6	0.1988	0.1880	0.1038	0.0571	0.0743	0.0336	0.0698	0.0451	0.0746	0.0540
Highway Creek	7	0.1156	0.1225	0.0918	0.0506	0.0630	0.0405	0.0317	0.0125	0.0709	0.0674
Long Sound	8	0.1325	0.0974	0.1008	0.0613	0.0979	0.0679	0.0721	0.0397	0.1058	0.0806
Duck Key	9	0.3134	0.1733	0.1331	0.0608	0.1207	0.0991	0.0594	0.0359	0.0756	0.0502
Joe Bay	10	0.1659	0.0812	0.0630	0.0348	0.0773	0.0408	0.0395	0.0216	0.0491	0.0306
L. Madeira Bay	11	0.3389	0.2009	0.0948	0.0677	0.1684	0.1052	0.0720	0.0465	0.1335	0.0809
Terrapin Bay	12	0.4647	0.5889	0.0263	0.0132	0.1717	0.1953	0.2683	0.1927	0.3429	0.1396
Whipray Basin	13	0.2017	0.1843	0.0480	0.0636	0.1448	0.1773	0.2774	0.1905	0.2562	0.1266
Garfield Bight	14	0.0867	0.1127	0.0608	0.0925	0.1032	0.1435	0.1370	0.1552	0.2958	0.2298
Rankin Lake	15	0.0799	0.1102	0.0488	0.0422	0.0507	0.0660	0.1475	0.1329	0.3085	0.2479
Murray Key	16	0.0364	0.0195	0.0620	0.0431	0.0584	0.0625	0.0289	0.0316	0.0636	0.0961
Johnson Key Basin	17	0.0227	0.0148	0.0761	0.0589	0.0727	0.0649	0.0332	0.0208	0.0767	0.1066
Rabbit Key Basin	18	0.0152	0.0037	0.0331	0.0234	0.0667	0.0559	0.0177	0.0069	0.0341	0.0552
Twin Key Basin	19	0.0508	0.0235	0.0238	0.0216	0.0437	0.0297	0.0418	0.0279	0.0378	0.0177
Peterson Key	20	0.0647	0.0281	0.0333	0.0208	0.0567	0.0439	0.0419	0.0255	0.0449	0.0206
Porpoise Lake	21	0.0383	0.0310	0.0534	0.0276	0.0933	0.1141	0.1323	0.1083	0.1500	0.1040
Captain's Key	22	0.3143	0.2815	0.1029	0.0390	0.1812	0.1694	0.1481	0.1027	0.2002	0.1051
Park Key	23	0.4946	0.2996	0.0958	0.0532	0.2027	0.1339	0.0804	0.0474	0.1396	0.1108
Butternut Key	24	0.4869	0.2393	0.1861	0.0659	0.1751	0.0977	0.0766	0.0402	0.1865	0.1281
East Cape	25			0.0511	0.0276	0.0427	0.0418	0.0182	0.0131	0.0258	0.0322
Oxfoot Bank	26			0.0382	0.0313	0.0500	0.0459	0.0119	0.0081	0.0246	0.0282
Sprigger Bank	27			0.0257	0.0291	0.0221	0.0159	0.0090	0.0074	0.0092	0.0067
Old Dan Bank	28			0.0308	0.0472	0.0275	0.0179	0.0128	0.0083	0.0167	0.0142
First Bay	29			0.0660	0.0248	0.0595	0.0321	0.0256	0.0149	0.0436	0.0241
Third Bay	30			0.0396	0.0251	0.0477	0.0205	0.0148	0.0106	0.0194	0.0194
Big Lostman's Bay	31			0.0367	0.0165	0.0663	0.1162	0.0242	0.0123	0.0338	0.0280
Cabbage Island	32			0.0334	0.0218	0.0361	0.0246	0.0175	0.0110	0.0210	0.0233
Broad River Bay	33			0.0471	0.0226	0.0674	0.0674	0.0239	0.0122	0.0353	0.0327
Middle Broad River	34			0.0724	0.0283	0.1032	0.0562	0.0358	0.0129	0.0538	0.0367
Mouth Broad River	35			0.0484	0.0257	0.0753	0.0360	0.0424	0.0166	0.0686	0.0339
S. Mouth Harney R.	36			0.0498	0.0336	0.0521	0.0455	0.0376	0.0271	0.0430	0.0300
Harney River Junction	37			0.0726	0.0273	0.0834	0.0671	0.0430	0.0142	0.0590	0.0305
Tarpon Bay	38			0.0765	0.0325	0.1007	0.1345	0.0429	0.0111	0.0630	0.0454
Gunboat Island	39			0.0665	0.0321	0.0779	0.1123	0.0438	0.0142	0.0493	0.0293
Ponce De Leon Bay	40			0.0414	0.0285	0.0576	0.0398	0.0429	0.0368	0.0327	0.0126
Oyster Bay	41			0.0474	0.0253	0.0568	0.0461	0.0354	0.0338	0.0172	0.0074
N of Marker 36	42			0.0284	0.0183	0.0478	0.0511	0.0211	0.0315	0.0151	0.0059
W of marker 34	43			0.0210	0.0148	0.0563	0.0921	0.0214	0.0453	0.0165	0.0070
Watson R. Chickee	44			0.0642	0.0296	0.0796	0.0491	0.0379	0.0420	0.0208	0.0188
Mouth North River	45			0.0385	0.0280	0.0826	0.0702	0.0455	0.0408	0.0198	0.0207
Midway Keys	46			0.0215	0.0097	0.0892	0.1361	0.0492	0.0895	0.0135	0.0068
Mouth of Roberts R.	47			0.0571	0.0402	0.0916	0.0546	0.0553	0.0424	0.0220	0.0129
W of Marker 18	48			0.0289	0.0362	0.0938	0.0968	0.0729	0.1085	0.0133	0.0059
SE of Marker 12	49			0.0283	0.0195	0.1494	0.1342	0.0914	0.1342	0.0142	0.0068
Coot Bay	50			0.0323	0.0288	0.2681	0.2479	0.1905	0.2266	0.0339	0.0589
All Stations		0.1638	0.1317	0.0583	0.0174	0.0912	0.0499	0.0629	0.0531	0.0748	0.0527

Table 8a: Florida Bay/Whitewater Bay Total Organic Nitrogen (mg/l of N)

Station Name	Station Number	N POR	Min POR	Max POR	Mean POR	S.D. POR	Coef. Var. POR
Card Sound Bridge	1	71	0.2684	1.8099	0.5303	0.2137	0.4030
Middle Bay	2	71	0.2274	3.0985	0.6139	0.3485	0.5676
Manatee Bay	3	71	0.2443	1.4747	0.6220	0.1757	0.2825
Barnes Sound	4	71	0.1667	0.9696	0.5647	0.1422	0.2517
Blackwater Sound	5	71	0.2314	0.9685	0.6032	0.1299	0.2154
L. Blackwater Snd	6	71	0.1581	1.0658	0.6313	0.1630	0.2582
Highway Creek	7	71	0.3149	1.4621	0.7504	0.2391	0.3186
Long Sound	8	71	0.1620	1.1108	0.6721	0.1587	0.2361
Duck Key	9	71	0.1432	1.5866	0.6577	0.1872	0.2846
Joe Bay	10	71	0.3523	1.7950	0.8040	0.2388	0.2970
L. Madeira Bay	11	71	0.2360	1.7071	0.7333	0.2060	0.2809
Terrapin Bay	12	69	0.1774	3.9813	1.2609	0.5600	0.4441
Whipray Basin	13	70	0.3849	2.5396	1.1339	0.4647	0.4098
Garfield Bight	14	69	0.3832	4.3546	1.4878	0.7686	0.5166
Rankin Lake	15	71	0.2672	2.5237	1.2024	0.5657	0.4705
Murray Key	16	70	0.2082	1.2060	0.5102	0.2198	0.4308
Johnson Key Basin	17	71	0.1958	1.6797	0.5979	0.2857	0.4779
Rabbit Key Basin	18	71	0.2176	1.5299	0.5974	0.2977	0.4984
Twin Key Basin	19	70	0.2683	1.5173	0.7966	0.3258	0.4089
Peterson Key	20	71	0.1724	1.4910	0.6387	0.2531	0.3963
Porpoise Lake	21	70	0.4766	1.7427	0.9361	0.3008	0.3213
Captain's Key	22	70	0.2185	1.3398	0.7997	0.2216	0.2771
Park Key	23	70	0.0000	1.5195	0.6706	0.1939	0.2891
Butternut Key	24	71	0.0360	2.0802	0.6257	0.2203	0.3521
East Cape	25	55	0.1789	0.7352	0.3482	0.1019	0.2927
Oxfoot Bank	26	54	0.1029	0.9355	0.3536	0.1483	0.4138
Sprigger Bank	27	54	0.1176	1.0973	0.3202	0.1826	0.5704
Old Dan Bank	28	54	0.1088	0.7493	0.3065	0.1268	0.4137
First Bay	29	52	0.3941	1.0475	0.6608	0.1442	0.2182
Third Bay	30	52	0.4370	1.1801	0.7751	0.1509	0.1946
Big Lostman's Bay	31	52	0.5176	1.2749	0.8067	0.1679	0.2081
Cabbage Island	32	52	0.5095	1.2731	0.8554	0.1682	0.1966
Broad River Bay	33	52	0.1311	1.3737	0.8620	0.1989	0.2307
Middle Broad River	34	52	0.5653	1.1780	0.8318	0.1627	0.1956
Mouth Broad River	35	52	0.4317	2.3056	0.7730	0.2715	0.3512
S. Mouth Harney R.	36	52	0.4018	2.2128	0.7121	0.2943	0.4133
Harney River Junction	37	52	0.5134	2.9886	0.9584	0.3677	0.3837
Tarpon Bay	38	52	0.6954	2.8749	1.1026	0.3406	0.3089
Gunboat Island	39	52	0.4840	2.8145	0.9600	0.3592	0.3742
Ponce De Leon Bay	40	52	0.3204	1.5282	0.5243	0.1788	0.3411
Oyster Bay	41	52	0.1296	1.7476	0.5915	0.2125	0.3593
N of Marker 36	42	52	0.4123	2.0274	0.7909	0.2521	0.3187
W of marker 34	43	52	0.5050	1.7959	0.8760	0.2221	0.2536
Watson R. Chickee	44	52	0.5374	2.5350	0.9121	0.2810	0.3080
Mouth North River	45	52	0.5138	2.0476	0.9485	0.2361	0.2489
Midway Keys	46	52	0.5329	1.7560	0.9746	0.2317	0.2378
Mouth of Roberts R.	47	52	0.4631	1.6659	0.9419	0.2526	0.2682
W of Marker 18	48	52	0.5426	2.0383	1.0369	0.2973	0.2867
SE of Marker 12	49	52	0.5773	1.9680	1.0570	0.2813	0.2662
Coot Bay	50	51	0.3004	2.1198	1.2316	0.3556	0.2887
All Stations		50	0.0000	4.3546	0.7790	0.1235	0.1585

POR = Period of Record as indicated on Table 1.

Table 8b: Florida Bay/Whitewater Bay Total Organic Nitrogen (mg/l of N)

Station Name	Station Number	Mean 1992	S.D. 1992	Mean 1993	S.D. 1993	Mean 1994	S.D. 1994	Mean 1995	S.D. 1995	Mean 1996	S.D. 1996
Card Sound Bridge	1	0.5397	0.1672	0.4960	0.1255	0.5275	0.1334	0.5366	0.1071	0.4405	0.1063
Middle Bay	2	0.5872	0.1623	0.5978	0.2969	0.5909	0.1616	0.6233	0.1427	0.5158	0.1213
Manatee Bay	3	0.6010	0.1441	0.5635	0.1363	0.6045	0.1923	0.6547	0.1482	0.5868	0.1235
Barnes Sound	4	0.6027	0.1704	0.5299	0.1446	0.5781	0.1973	0.5930	0.1000	0.5184	0.1215
Blackwater Sound	5	0.6416	0.1685	0.5368	0.1090	0.6277	0.1676	0.6291	0.0906	0.5542	0.0949
L. Blackwater Snd	6	0.5936	0.2218	0.6079	0.1448	0.6447	0.1932	0.6726	0.0996	0.5861	0.1105
Highway Creek	7	0.7538	0.1838	0.7342	0.2354	0.7588	0.2744	0.7632	0.2195	0.7139	0.1715
Long Sound	8	0.6756	0.2047	0.6469	0.1878	0.6944	0.1667	0.6896	0.1241	0.6310	0.1042
Duck Key	9	0.6242	0.2494	0.5726	0.1225	0.6772	0.1739	0.6392	0.0549	0.6455	0.0831
Joe Bay	10	0.7299	0.2119	0.8031	0.2357	0.7389	0.1884	0.8475	0.1129	0.8704	0.2225
L. Madeira Bay	11	0.6515	0.1997	0.6942	0.1535	0.7284	0.2122	0.7194	0.0797	0.7386	0.1201
Terrapin Bay	12	1.1024	0.4807	1.5084	0.5051	1.2768	0.4259	1.1470	0.4154	0.9746	0.3484
Whipray Basin	13	1.1012	0.7362	1.3621	0.5253	1.1923	0.3559	1.0443	0.3041	0.9064	0.3577
Garfield Bight	14	1.6156	1.1985	1.6865	0.7280	1.6073	0.6795	1.3463	0.5402	1.0426	0.5036
Rankin Lake	15	1.1767	0.6753	1.3280	0.7183	1.4829	0.5365	1.0907	0.5274	0.9761	0.3721
Murray Key	16	0.4386	0.1452	0.4373	0.1617	0.6226	0.2371	0.5576	0.2259	0.5249	0.2431
Johnson Key Basin	17	0.5661	0.2397	0.5113	0.2238	0.6636	0.3711	0.5987	0.1471	0.6558	0.3628
Rabbit Key Basin	18	0.6938	0.4479	0.5052	0.1760	0.5753	0.2950	0.5798	0.1983	0.5740	0.2748
Twin Key Basin	19	0.7612	0.3917	0.9332	0.3201	0.8086	0.3952	0.7059	0.2435	0.5903	0.1920
Peterson Key	20	0.5765	0.2590	0.7178	0.3861	0.6430	0.1619	0.6591	0.2181	0.5605	0.2027
Porpoise Lake	21	0.9393	0.2558	1.0787	0.3724	0.9140	0.3145	0.9292	0.2164	0.8370	0.3525
Captain's Key	22	0.7264	0.2139	0.8674	0.2743	0.8191	0.2815	0.7902	0.1763	0.7301	0.1390
Park Key	23	0.5384	0.2433	0.6746	0.1093	0.6967	0.3016	0.6726	0.0855	0.6751	0.0873
Butternut Key	24	0.5168	0.1024	0.5856	0.1122	0.6387	0.1385	0.5897	0.0539	0.6283	0.0893
East Cape	25			0.3321	0.0812	0.3981	0.1480	0.3322	0.0580	0.3462	0.0951
Oxfoot Bank	26			0.3008	0.1415	0.4075	0.2251	0.3277	0.0579	0.3123	0.1240
Sprigger Bank	27			0.3054	0.2107	0.3048	0.1373	0.2865	0.0644	0.2755	0.1112
Old Dan Bank	28			0.2668	0.1222	0.3134	0.1468	0.3020	0.0664	0.3215	0.1816
First Bay	29			0.7000	0.1681	0.5699	0.1516	0.6534	0.1243	0.6884	0.1162
Third Bay	30			0.8123	0.1760	0.7056	0.1454	0.7482	0.1527	0.7806	0.1003
Big Lostman's Bay	31			0.8807	0.2086	0.7850	0.1691	0.7191	0.1620	0.8228	0.1093
Cabbage Island	32			0.9027	0.1918	0.8081	0.1605	0.7517	0.1679	0.9245	0.1178
Broad River Bay	33			0.9116	0.2089	0.7707	0.2490	0.8074	0.2003	0.9292	0.0997
Middle Broad River	34			0.8588	0.1781	0.7736	0.1591	0.8021	0.1736	0.8410	0.1292
Mouth Broad River	35			0.7725	0.2223	0.6874	0.1545	0.7607	0.1438	0.7231	0.1419
S. Mouth Harney R.	36			0.7281	0.2905	0.6205	0.1406	0.6877	0.1486	0.6590	0.2011
Harney River Junction	37			1.0126	0.2941	0.8198	0.1665	0.8811	0.1950	0.8959	0.2137
Tarpon Bay	38			1.2075	0.2409	1.0269	0.1662	0.9717	0.2826	1.0395	0.1508
Gunboat Island	39			1.0265	0.3278	0.8183	0.1789	0.9346	0.1978	0.8644	0.2192
Ponce De Leon Bay	40			0.4836	0.1060	0.4263	0.0769	0.5759	0.0711	0.5307	0.1349
Oyster Bay	41			0.5428	0.1178	0.4745	0.1433	0.6565	0.0907	0.5758	0.1341
N of Marker 36	42			0.7644	0.1631	0.6384	0.1635	0.8678	0.1854	0.7996	0.1720
W of marker 34	43			0.8631	0.2002	0.7196	0.1355	0.9262	0.1794	0.9370	0.1400
Watson R. Chickee	44			0.9105	0.1432	0.7543	0.1494	0.9496	0.1773	0.8898	0.1447
Mouth North River	45			0.9822	0.1759	0.8100	0.1265	0.9558	0.2446	0.9794	0.1044
Midway Keys	46			1.0475	0.2314	0.8295	0.1636	0.9549	0.2334	1.0380	0.1312
Mouth of Roberts R.	47			0.9885	0.2351	0.8603	0.1968	0.8897	0.3079	1.0417	0.1929
W of Marker 18	48			1.1683	0.3847	0.9075	0.1715	0.9440	0.2374	1.1105	0.1551
SE of Marker 12	49			1.2103	0.3563	0.9337	0.1814	0.9927	0.3015	1.1608	0.1890
Coot Bay	50			1.4240	0.4448	1.0734	0.2959	1.1628	0.3363	1.3906	0.1668
All Stations		0.7398	0.2461	0.8077	0.1433	0.7470	0.1112	0.7584	0.1087	0.7471	0.0913

Table 9a: Florida Bay/Whitewater Bay Total Phosphorus (mg/l of P)

Station Name	Station Number	N POR	Min POR	Max POR	Mean POR	S.D. POR	Coef. Var. POR
Card Sound Bridge	1	71	0.0021	0.0202	0.0081	0.0039	0.4821
Middle Bay	2	71	0.0014	0.0284	0.0086	0.0040	0.4627
Manatee Bay	3	71	0.0015	0.0221	0.0082	0.0033	0.4012
Barnes Sound	4	71	0.0030	0.0184	0.0077	0.0027	0.3529
Blackwater Sound	5	71	0.0040	0.0204	0.0079	0.0031	0.3964
L. Blackwater Snd	6	71	0.0033	0.0321	0.0098	0.0043	0.4411
Highway Creek	7	71	0.0027	0.0398	0.0152	0.0069	0.4560
Long Sound	8	71	0.0037	0.0354	0.0118	0.0044	0.3744
Duck Key	9	71	0.0040	0.0168	0.0076	0.0028	0.3676
Joe Bay	10	71	0.0065	0.0247	0.0149	0.0036	0.2385
L. Madeira Bay	11	71	0.0043	0.0187	0.0093	0.0031	0.3320
Terrapin Bay	12	71	0.0052	0.0563	0.0184	0.0092	0.5016
Whipray Basin	13	71	0.0044	0.0464	0.0195	0.0085	0.4378
Garfield Bight	14	70	0.0051	0.1304	0.0379	0.0261	0.6886
Rankin Lake	15	71	0.0053	0.0874	0.0291	0.0170	0.5825
Murray Key	16	70	0.0040	0.0790	0.0266	0.0155	0.5807
Johnson Key Basin	17	71	0.0058	0.0533	0.0225	0.0107	0.4782
Rabbit Key Basin	18	71	0.0033	0.0805	0.0182	0.0128	0.7032
Twin Key Basin	19	70	0.0027	0.0312	0.0127	0.0064	0.5083
Peterson Key	20	71	0.0026	0.0202	0.0090	0.0038	0.4265
Porpoise Lake	21	71	0.0033	0.0285	0.0105	0.0053	0.5015
Captain's Key	22	70	0.0027	0.0222	0.0089	0.0040	0.4494
Park Key	23	70	0.0006	0.0453	0.0077	0.0053	0.6828
Butternut Key	24	71	0.0018	0.0696	0.0078	0.0081	1.0391
East Cape	25	55	0.0029	0.0546	0.0196	0.0110	0.5621
Oxfoot Bank	26	55	0.0021	0.0969	0.0227	0.0161	0.7085
Sprigger Bank	27	55	0.0029	0.0893	0.0159	0.0144	0.9066
Old Dan Bank	28	55	0.0022	0.0260	0.0081	0.0042	0.5183
First Bay	29	52	0.0086	0.0495	0.0271	0.0092	0.3400
Third Bay	30	52	0.0114	0.0740	0.0281	0.0113	0.4032
Big Lostman's Bay	31	52	0.0057	0.0413	0.0200	0.0082	0.4117
Cabbage Island	32	52	0.0091	0.0622	0.0227	0.0100	0.4404
Broad River Bay	33	52	0.0071	0.0544	0.0244	0.0105	0.4299
Middle Broad River	34	52	0.0094	0.0635	0.0298	0.0132	0.4448
Mouth Broad River	35	51	0.0110	0.0756	0.0371	0.0144	0.3896
S. Mouth Harney R.	36	51	0.0007	0.0918	0.0375	0.0153	0.4087
Harney River Junction	37	52	0.0101	0.0559	0.0309	0.0114	0.3680
Tarpon Bay	38	52	0.0087	0.0467	0.0228	0.0094	0.4133
Gunboat Island	39	52	0.0088	0.0399	0.0217	0.0076	0.3479
Ponce De Leon Bay	40	51	0.0044	0.0439	0.0190	0.0078	0.4110
Oyster Bay	41	51	0.0054	0.0439	0.0219	0.0091	0.4156
N of Marker 36	42	52	0.0048	0.0944	0.0220	0.0134	0.6098
W of marker 34	43	52	0.0090	0.0469	0.0234	0.0100	0.4249
Watson R. Chickee	44	52	0.0056	0.0631	0.0240	0.0106	0.4415
Mouth North River	45	52	0.0089	0.0556	0.0217	0.0101	0.4649
Midway Keys	46	52	0.0031	0.0535	0.0224	0.0104	0.4860
Mouth of Roberts R.	47	52	0.0080	0.0635	0.0206	0.0111	0.5392
W of Marker 18	48	52	0.0073	0.0744	0.0239	0.0146	0.6111
SE of Marker 12	49	52	0.0105	0.0830	0.0266	0.0161	0.6042
Coot Bay	50	51	0.0173	0.1009	0.0404	0.0179	0.4434
All Stations		50	0.0006	0.1304	0.0194	0.0050	0.2550

POR = Period of Record as indicated on Table 1.

Table 9b: Florida Bay/Whitewater Bay Total Phosphorus (mg/l of P)

Station Name	Station Number	Mean 1992	S.D. 1992	Mean 1993	S.D. 1993	Mean 1994	S.D. 1994	Mean 1995	S.D. 1995	Mean 1996	S.D. 1996
Card Sound Bridge	1	0.0096	0.0027	0.0095	0.0044	0.0081	0.0025	0.0052	0.0015	0.0048	0.0010
Middle Bay	2	0.0110	0.0051	0.0081	0.0014	0.0087	0.0021	0.0065	0.0013	0.0056	0.0017
Manatee Bay	3	0.0097	0.0019	0.0073	0.0016	0.0079	0.0024	0.0072	0.0015	0.0058	0.0010
Barnes Sound	4	0.0082	0.0014	0.0076	0.0016	0.0076	0.0021	0.0069	0.0013	0.0057	0.0011
Blackwater Sound	5	0.0086	0.0020	0.0072	0.0018	0.0081	0.0043	0.0069	0.0014	0.0058	0.0010
L. Blackwater Snd	6	0.0123	0.0066	0.0082	0.0012	0.0102	0.0043	0.0090	0.0017	0.0069	0.0010
Highway Creek	7	0.0187	0.0074	0.0153	0.0065	0.0147	0.0060	0.0145	0.0044	0.0101	0.0029
Long Sound	8	0.0149	0.0068	0.0106	0.0024	0.0115	0.0035	0.0117	0.0024	0.0088	0.0016
Duck Key	9	0.0077	0.0022	0.0062	0.0013	0.0076	0.0031	0.0072	0.0017	0.0063	0.0017
Joe Bay	10	0.0147	0.0032	0.0149	0.0023	0.0146	0.0043	0.0151	0.0038	0.0137	0.0033
L. Madeira Bay	11	0.0103	0.0024	0.0077	0.0017	0.0091	0.0031	0.0087	0.0025	0.0083	0.0015
Terrapin Bay	12	0.0186	0.0046	0.0207	0.0128	0.0197	0.0121	0.0178	0.0085	0.0123	0.0051
Whipray Basin	13	0.0209	0.0074	0.0256	0.0104	0.0186	0.0102	0.0171	0.0050	0.0136	0.0043
Garfield Bight	14	0.0380	0.0241	0.0331	0.0226	0.0378	0.0234	0.0358	0.0217	0.0295	0.0192
Rankin Lake	15	0.0297	0.0190	0.0316	0.0208	0.0325	0.0186	0.0278	0.0121	0.0218	0.0081
Murray Key	16	0.0295	0.0114	0.0251	0.0195	0.0215	0.0125	0.0198	0.0068	0.0318	0.0231
Johnson Key Basin	17	0.0210	0.0089	0.0200	0.0083	0.0263	0.0144	0.0241	0.0127	0.0229	0.0121
Rabbit Key Basin	18	0.0174	0.0120	0.0142	0.0074	0.0171	0.0107	0.0220	0.0198	0.0184	0.0075
Twin Key Basin	19	0.0115	0.0037	0.0157	0.0063	0.0148	0.0104	0.0121	0.0052	0.0077	0.0016
Peterson Key	20	0.0081	0.0035	0.0102	0.0045	0.0088	0.0042	0.0085	0.0034	0.0066	0.0018
Porpoise Lake	21	0.0094	0.0037	0.0104	0.0048	0.0109	0.0063	0.0107	0.0052	0.0088	0.0044
Captain's Key	22	0.0084	0.0033	0.0084	0.0050	0.0089	0.0036	0.0095	0.0042	0.0072	0.0023
Park Key	23	0.0106	0.0112	0.0063	0.0018	0.0066	0.0019	0.0075	0.0026	0.0063	0.0021
Butternut Key	24	0.0124	0.0182	0.0058	0.0021	0.0061	0.0017	0.0065	0.0023	0.0060	0.0027
East Cape	25			0.0182	0.0127	0.0213	0.0127	0.0152	0.0071	0.0220	0.0112
Oxfoot Bank	26			0.0225	0.0164	0.0227	0.0148	0.0228	0.0236	0.0203	0.0101
Sprigger Bank	27			0.0153	0.0115	0.0184	0.0221	0.0134	0.0096	0.0117	0.0031
Old Dan Bank	28			0.0070	0.0033	0.0078	0.0042	0.0078	0.0037	0.0104	0.0056
First Bay	29			0.0311	0.0098	0.0273	0.0084	0.0254	0.0094	0.0222	0.0077
Third Bay	30			0.0325	0.0103	0.0304	0.0071	0.0221	0.0083	0.0255	0.0165
Big Lostman's Bay	31			0.0217	0.0076	0.0263	0.0056	0.0159	0.0056	0.0170	0.0107
Cabbage Island	32			0.0251	0.0109	0.0272	0.0058	0.0195	0.0073	0.0207	0.0144
Broad River Bay	33			0.0252	0.0078	0.0317	0.0093	0.0222	0.0085	0.0197	0.0138
Middle Broad River	34			0.0380	0.0133	0.0343	0.0098	0.0260	0.0115	0.0229	0.0149
Mouth Broad River	35			0.0450	0.0150	0.0351	0.0130	0.0324	0.0115	0.0339	0.0194
S. Mouth Harney R.	36			0.0374	0.0088	0.0337	0.0189	0.0347	0.0129	0.0361	0.0171
Harney River Junction	37			0.0357	0.0115	0.0369	0.0100	0.0290	0.0094	0.0224	0.0097
Tarpon Bay	38			0.0242	0.0095	0.0301	0.0092	0.0226	0.0078	0.0164	0.0074
Gunboat Island	39			0.0228	0.0071	0.0269	0.0080	0.0224	0.0075	0.0160	0.0049
Ponce De Leon Bay	40			0.0140	0.0053	0.0207	0.0069	0.0254	0.0078	0.0163	0.0062
Oyster Bay	41			0.0167	0.0063	0.0194	0.0081	0.0305	0.0062	0.0201	0.0115
N of Marker 36	42			0.0177	0.0097	0.0177	0.0057	0.0277	0.0063	0.0251	0.0238
W of marker 34	43			0.0200	0.0101	0.0174	0.0065	0.0329	0.0076	0.0251	0.0095
Watson R. Chickee	44			0.0195	0.0079	0.0211	0.0064	0.0331	0.0062	0.0241	0.0154
Mouth North River	45			0.0210	0.0129	0.0180	0.0056	0.0278	0.0069	0.0233	0.0116
Midway Keys	46			0.0219	0.0131	0.0169	0.0065	0.0285	0.0079	0.0251	0.0109
Mouth of Roberts R.	47			0.0194	0.0122	0.0183	0.0058	0.0231	0.0069	0.0242	0.0169
W of Marker 18	48			0.0233	0.0162	0.0161	0.0052	0.0283	0.0088	0.0321	0.0200
SE of Marker 12	49			0.0265	0.0171	0.0187	0.0056	0.0314	0.0115	0.0348	0.0224
Coot Bay	50			0.0473	0.0259	0.0332	0.0158	0.0429	0.0152	0.0433	0.0129
All Stations		0.0151	0.0060	0.0196	0.0060	0.0193	0.0052	0.0196	0.0051	0.0177	0.0068

Table 10a: Florida Bay/Whitewater Bay Soluble Reactive Phosphorus (mg/l of P)

Station Name	Station Number	N POR	Min POR	Max POR	Mean POR	S.D. POR	Coef. Var. POR
Card Sound Bridge	1	71	0.0000	0.0050	0.0012	0.0011	0.9038
Middle Bay	2	71	0.0000	0.0100	0.0014	0.0015	1.0689
Manatee Bay	3	71	0.0000	0.0085	0.0015	0.0012	0.7994
Barnes Sound	4	71	0.0000	0.0041	0.0013	0.0010	0.7648
Blackwater Sound	5	71	0.0000	0.0060	0.0013	0.0011	0.8034
L. Blackwater Snd	6	71	0.0000	0.0123	0.0020	0.0018	0.9065
Highway Creek	7	71	0.0000	0.0194	0.0034	0.0043	1.2651
Long Sound	8	71	0.0000	0.0156	0.0021	0.0024	1.1486
Duck Key	9	71	0.0000	0.0054	0.0015	0.0012	0.8286
Joe Bay	10	71	0.0000	0.0158	0.0025	0.0027	1.0949
L. Madeira Bay	11	71	0.0000	0.0071	0.0015	0.0014	0.9308
Terrapin Bay	12	71	0.0000	0.0164	0.0020	0.0029	1.4689
Whipray Basin	13	71	0.0000	0.0174	0.0020	0.0026	1.2835
Garfield Bight	14	70	0.0000	0.0260	0.0029	0.0036	1.2535
Rankin Lake	15	71	0.0000	0.0146	0.0022	0.0021	0.9715
Murray Key	16	70	0.0000	0.0058	0.0015	0.0011	0.7125
Johnson Key Basin	17	71	0.0000	0.0057	0.0012	0.0010	0.8004
Rabbit Key Basin	18	71	0.0000	0.0089	0.0013	0.0015	1.1899
Twin Key Basin	19	70	0.0000	0.0072	0.0012	0.0013	1.0410
Peterson Key	20	71	0.0000	0.0050	0.0012	0.0011	0.9367
Porpoise Lake	21	71	0.0000	0.0132	0.0015	0.0018	1.2105
Captain's Key	22	70	0.0000	0.0043	0.0012	0.0011	0.9048
Park Key	23	70	0.0000	0.0051	0.0013	0.0010	0.7718
Butternut Key	24	71	0.0000	0.0062	0.0012	0.0012	0.9938
East Cape	25	55	0.0000	0.0054	0.0010	0.0009	0.8681
Oxfoot Bank	26	54	0.0000	0.0053	0.0010	0.0008	0.8047
Sprigger Bank	27	54	0.0000	0.0122	0.0011	0.0017	1.6186
Old Dan Bank	28	54	0.0000	0.0087	0.0009	0.0013	1.4861
First Bay	29	52	0.0007	0.0080	0.0032	0.0019	0.6056
Third Bay	30	52	0.0001	0.0064	0.0017	0.0016	0.9270
Big Lostman's Bay	31	52	0.0000	0.0061	0.0014	0.0014	0.9858
Cabbage Island	32	52	0.0001	0.0060	0.0013	0.0013	0.9581
Broad River Bay	33	52	0.0001	0.0060	0.0014	0.0011	0.8217
Middle Broad River	34	52	0.0000	0.0163	0.0034	0.0037	1.0913
Mouth Broad River	35	52	0.0005	0.0184	0.0059	0.0046	0.7749
S. Mouth Harney R.	36	52	0.0012	0.0339	0.0081	0.0055	0.6821
Harney River Junction	37	52	0.0000	0.0259	0.0051	0.0051	1.0032
Tarpon Bay	38	52	0.0001	0.0067	0.0016	0.0014	0.8828
Gunboat Island	39	52	0.0000	0.0081	0.0026	0.0020	0.7586
Ponce De Leon Bay	40	52	0.0005	0.0138	0.0054	0.0031	0.5657
Oyster Bay	41	52	0.0002	0.0109	0.0035	0.0021	0.5788
N of Marker 36	42	52	0.0000	0.0060	0.0020	0.0015	0.7587
W of marker 34	43	52	0.0000	0.0101	0.0026	0.0020	0.7954
Watson R. Chickee	44	52	0.0000	0.0053	0.0018	0.0013	0.7127
Mouth North River	45	52	0.0000	0.0102	0.0018	0.0018	0.9538
Midway Keys	46	52	0.0000	0.0208	0.0024	0.0030	1.2540
Mouth of Roberts R.	47	52	0.0000	0.0060	0.0018	0.0015	0.8612
W of Marker 18	48	52	0.0000	0.0129	0.0027	0.0023	0.8574
SE of Marker 12	49	52	0.0000	0.0259	0.0037	0.0047	1.2528
Coot Bay	50	52	0.0000	0.0145	0.0035	0.0034	0.9957
All Stations		50	0.0000	0.0339	0.0022	0.0012	0.5371

POR = Period of Record as indicated on Table 1.

Table 10b: Florida Bay/Whitewater Bay Soluble Reactive Phosphorus (mg/l of P)

Station Name	Station Number	Mean 1992	S.D. 1992	Mean 1993	S.D. 1993	Mean 1994	S.D. 1994	Mean 1995	S.D. 1995	Mean 1996	S.D. 1996
Card Sound Bridge	1	0.0021	0.0016	0.0016	0.0009	0.0009	0.0005	0.0005	0.0005	0.0011	0.0013
Middle Bay	2	0.0028	0.0028	0.0015	0.0007	0.0016	0.0010	0.0007	0.0005	0.0009	0.0010
Manatee Bay	3	0.0024	0.0016	0.0016	0.0006	0.0018	0.0014	0.0009	0.0007	0.0012	0.0011
Barnes Sound	4	0.0018	0.0011	0.0015	0.0006	0.0017	0.0010	0.0009	0.0009	0.0008	0.0011
Blackwater Sound	5	0.0018	0.0015	0.0016	0.0006	0.0016	0.0008	0.0011	0.0012	0.0007	0.0009
L. Blackwater Snd	6	0.0029	0.0034	0.0020	0.0011	0.0019	0.0009	0.0014	0.0014	0.0014	0.0011
Highway Creek	7	0.0055	0.0059	0.0042	0.0056	0.0027	0.0018	0.0015	0.0016	0.0019	0.0016
Long Sound	8	0.0035	0.0044	0.0022	0.0024	0.0019	0.0012	0.0014	0.0013	0.0016	0.0013
Duck Key	9	0.0014	0.0011	0.0020	0.0013	0.0015	0.0008	0.0009	0.0008	0.0012	0.0014
Joe Bay	10	0.0040	0.0043	0.0022	0.0021	0.0022	0.0018	0.0012	0.0013	0.0018	0.0013
L. Madeira Bay	11	0.0026	0.0020	0.0016	0.0010	0.0011	0.0012	0.0009	0.0007	0.0011	0.0010
Terrapin Bay	12	0.0024	0.0020	0.0029	0.0041	0.0024	0.0044	0.0010	0.0010	0.0008	0.0011
Whipray Basin	13	0.0026	0.0025	0.0027	0.0020	0.0028	0.0045	0.0011	0.0011	0.0009	0.0013
Garfield Bight	14	0.0065	0.0071	0.0023	0.0017	0.0026	0.0018	0.0013	0.0008	0.0013	0.0013
Rankin Lake	15	0.0041	0.0040	0.0023	0.0012	0.0021	0.0011	0.0014	0.0008	0.0009	0.0010
Murray Key	16	0.0016	0.0008	0.0016	0.0004	0.0012	0.0006	0.0020	0.0015	0.0010	0.0013
Johnson Key Basin	17	0.0012	0.0008	0.0015	0.0006	0.0009	0.0006	0.0012	0.0011	0.0011	0.0015
Rabbit Key Basin	18	0.0018	0.0020	0.0013	0.0009	0.0008	0.0007	0.0010	0.0008	0.0008	0.0015
Twin Key Basin	19	0.0009	0.0007	0.0019	0.0021	0.0011	0.0008	0.0009	0.0008	0.0011	0.0015
Peterson Key	20	0.0009	0.0009	0.0011	0.0012	0.0013	0.0007	0.0006	0.0005	0.0013	0.0016
Porpoise Lake	21	0.0013	0.0011	0.0011	0.0007	0.0024	0.0033	0.0008	0.0006	0.0014	0.0016
Captain's Key	22	0.0010	0.0009	0.0011	0.0007	0.0015	0.0013	0.0008	0.0008	0.0011	0.0011
Park Key	23	0.0014	0.0010	0.0012	0.0006	0.0014	0.0013	0.0010	0.0006	0.0012	0.0011
Butternut Key	24	0.0011	0.0008	0.0011	0.0006	0.0012	0.0016	0.0008	0.0006	0.0011	0.0013
East Cape	25			0.0013	0.0006	0.0010	0.0007	0.0007	0.0004	0.0009	0.0014
Oxfoot Bank	26			0.0011	0.0005	0.0010	0.0007	0.0008	0.0004	0.0009	0.0014
Sprigger Bank	27			0.0007	0.0005	0.0013	0.0011	0.0008	0.0006	0.0013	0.0034
Old Dan Bank	28			0.0010	0.0013	0.0011	0.0008	0.0005	0.0004	0.0012	0.0024
First Bay	29			0.0040	0.0015	0.0033	0.0016	0.0015	0.0010	0.0036	0.0021
Third Bay	30			0.0016	0.0011	0.0021	0.0020	0.0006	0.0004	0.0020	0.0015
Big Lostman's Bay	31			0.0014	0.0010	0.0018	0.0014	0.0006	0.0004	0.0015	0.0016
Cabbage Island	32			0.0011	0.0005	0.0020	0.0017	0.0005	0.0003	0.0011	0.0009
Broad River Bay	33			0.0013	0.0006	0.0021	0.0013	0.0005	0.0004	0.0011	0.0004
Middle Broad River	34			0.0068	0.0055	0.0040	0.0025	0.0008	0.0006	0.0020	0.0013
Mouth Broad River	35			0.0090	0.0064	0.0071	0.0035	0.0038	0.0020	0.0037	0.0023
S. Mouth Harney R.	36			0.0093	0.0054	0.0078	0.0024	0.0053	0.0030	0.0066	0.0031
Harney River Junction	37			0.0078	0.0071	0.0072	0.0052	0.0021	0.0017	0.0034	0.0036
Tarpon Bay	38			0.0014	0.0011	0.0021	0.0012	0.0005	0.0002	0.0017	0.0008
Gunboat Island	39			0.0022	0.0016	0.0037	0.0022	0.0012	0.0008	0.0030	0.0020
Ponce De Leon Bay	40			0.0062	0.0034	0.0064	0.0041	0.0037	0.0018	0.0049	0.0025
Oyster Bay	41			0.0043	0.0028	0.0042	0.0021	0.0022	0.0013	0.0034	0.0014
N of Marker 36	42			0.0017	0.0017	0.0021	0.0016	0.0013	0.0008	0.0025	0.0014
W of marker 34	43			0.0019	0.0028	0.0026	0.0016	0.0021	0.0020	0.0031	0.0015
Watson R. Chickee	44			0.0013	0.0010	0.0024	0.0015	0.0010	0.0006	0.0022	0.0012
Mouth North River	45			0.0016	0.0014	0.0021	0.0014	0.0014	0.0028	0.0021	0.0011
Midway Keys	46			0.0022	0.0019	0.0022	0.0013	0.0027	0.0058	0.0025	0.0015
Mouth of Roberts R.	47			0.0018	0.0014	0.0019	0.0013	0.0007	0.0007	0.0024	0.0019
W of Marker 18	48			0.0036	0.0035	0.0027	0.0016	0.0012	0.0009	0.0035	0.0023
SE of Marker 12	49			0.0066	0.0083	0.0031	0.0022	0.0019	0.0017	0.0037	0.0031
Coot Bay	50			0.0033	0.0040	0.0032	0.0022	0.0034	0.0045	0.0039	0.0035
All Stations		0.0024	0.0017	0.0026	0.0019	0.0024	0.0011	0.0013	0.0010	0.0019	0.0007

Table 11a: Florida Bay/Whitewater Bay Alkaline Phosphatase Activity (uM/hr)

Station Name	Station Number	N POR	Min POR	Max POR	Mean POR	S.D. POR	Coef. Var. POR
Card Sound Bridge	1	71	0.02	3.32	0.29	0.51	1.74
Middle Bay	2	71	0.11	1.74	0.42	0.30	0.72
Manatee Bay	3	71	0.15	2.94	0.57	0.41	0.72
Barnes Sound	4	71	0.08	2.76	0.50	0.49	0.98
Blackwater Sound	5	71	0.08	2.55	0.44	0.40	0.91
L. Blackwater Snd	6	71	0.12	3.41	0.72	0.67	0.92
Highway Creek	7	71	0.28	4.42	0.98	0.64	0.66
Long Sound	8	71	0.23	3.99	0.79	0.71	0.89
Duck Key	9	71	0.10	1.64	0.35	0.28	0.78
Joe Bay	10	71	0.13	4.19	1.13	0.87	0.77
L. Madeira Bay	11	71	0.14	1.35	0.47	0.25	0.53
Terrapin Bay	12	70	0.32	6.44	2.39	1.49	0.63
Whipray Basin	13	71	0.20	5.92	2.43	1.57	0.64
Garfield Bight	14	70	0.17	5.09	2.45	1.55	0.63
Rankin Lake	15	71	0.16	5.06	2.31	1.63	0.70
Murray Key	16	70	0.02	2.71	0.31	0.48	1.56
Johnson Key Basin	17	71	0.06	4.34	0.90	1.03	1.15
Rabbit Key Basin	18	71	0.12	4.93	1.07	1.36	1.28
Twin Key Basin	19	70	0.15	4.91	1.43	1.47	1.03
Peterson Key	20	71	0.08	4.90	1.02	1.24	1.21
Porpoise Lake	21	71	0.26	6.11	1.97	1.32	0.67
Captain's Key	22	70	0.05	6.09	1.09	1.03	0.94
Park Key	23	70	0.07	1.86	0.40	0.34	0.84
Butternut Key	24	71	0.06	1.33	0.30	0.23	0.77
East Cape	25	55	0.02	1.51	0.23	0.33	1.43
Oxfoot Bank	26	55	0.03	2.48	0.42	0.54	1.28
Sprigger Bank	27	55	0.01	4.93	0.47	0.99	2.13
Old Dan Bank	28	55	0.01	1.95	0.36	0.53	1.45
First Bay	29	52	0.03	1.83	0.31	0.34	1.10
Third Bay	30	52	0.11	2.42	0.53	0.42	0.79
Big Lostman's Bay	31	52	0.10	3.22	0.68	0.64	0.93
Cabbage Island	32	52	0.12	3.08	0.86	0.73	0.85
Broad River Bay	33	52	0.11	2.88	0.52	0.55	1.06
Middle Broad River	34	52	0.04	1.68	0.30	0.32	1.05
Mouth Broad River	35	52	0.02	0.97	0.17	0.15	0.92
S. Mouth Harney R.	36	52	0.02	0.46	0.08	0.07	0.87
Harney River Junction	37	52	0.02	0.45	0.14	0.10	0.70
Tarpon Bay	38	52	0.10	0.95	0.38	0.21	0.56
Gunboat Island	39	52	0.03	0.65	0.20	0.14	0.69
Ponce De Leon Bay	40	52	0.01	1.68	0.14	0.26	1.88
Oyster Bay	41	52	0.01	3.23	0.30	0.54	1.81
N of Marker 36	42	52	0.09	2.82	0.88	0.78	0.89
W of marker 34	43	52	0.09	4.24	1.52	1.12	0.74
Watson R. Chickee	44	52	0.08	4.30	0.87	0.90	1.04
Mouth North River	45	52	0.16	4.33	1.46	1.12	0.77
Midway Keys	46	52	0.02	4.18	2.10	1.18	0.56
Mouth of Roberts R.	47	52	0.17	3.72	1.24	1.06	0.86
W of Marker 18	48	52	0.29	4.19	2.11	1.10	0.52
SE of Marker 12	49	52	0.26	3.96	1.89	1.17	0.62
Coot Bay	50	51	0.08	4.39	1.77	1.32	0.75
All Stations		50	0.01	6.44	0.89	0.45	0.51

POR = Period of Record as indicated on Table 1.

Table 11b: Florida Bay/Whitewater Bay Alkaline Phosphatase Activity (uM/hr)

Station Name	Station Number	Mean 1992	S.D. 1992	Mean 1993	S.D. 1993	Mean 1994	S.D. 1994	Mean 1995	S.D. 1995	Mean 1996	S.D. 1996
Card Sound Bridge	1	0.44	0.74	0.58	0.94	0.23	0.18	0.13	0.04	0.17	0.13
Middle Bay	2	0.62	0.56	0.34	0.19	0.39	0.20	0.29	0.12	0.40	0.26
Manatee Bay	3	0.99	0.76	0.44	0.20	0.49	0.18	0.42	0.17	0.53	0.33
Barnes Sound	4	0.90	0.78	0.61	0.64	0.48	0.26	0.22	0.13	0.26	0.21
Blackwater Sound	5	0.76	0.69	0.34	0.37	0.36	0.39	0.36	0.11	0.31	0.18
L. Blackwater Snd	6	1.23	1.08	0.45	0.17	0.72	0.81	0.59	0.21	0.52	0.46
Highway Creek	7	1.12	0.76	0.90	0.50	1.10	0.25	0.72	0.18	1.15	1.16
Long Sound	8	1.49	1.20	0.55	0.27	0.77	0.46	0.54	0.16	0.75	0.79
Duck Key	9	0.27	0.08	0.24	0.08	0.31	0.16	0.28	0.14	0.51	0.48
Joe Bay	10	0.91	0.65	2.05	0.72	0.65	0.28	0.72	0.30	1.66	1.23
L. Madeira Bay	11	0.40	0.15	0.51	0.28	0.43	0.14	0.42	0.21	0.46	0.28
Terrapin Bay	12	2.43	1.41	3.52	0.89	3.31	1.78	2.00	1.14	0.96	0.67
Whipray Basin	13	2.66	1.38	3.49	1.28	3.81	1.21	1.75	1.40	0.92	0.58
Garfield Bight	14	2.45	1.60	3.01	1.33	3.55	1.34	2.32	1.43	1.22	0.78
Rankin Lake	15	2.54	1.65	2.65	1.47	3.75	1.16	1.81	1.43	0.94	0.48
Murray Key	16	0.25	0.17	0.25	0.41	0.52	0.91	0.15	0.18	0.16	0.12
Johnson Key Basin	17	1.10	0.95	1.24	1.49	1.29	1.45	0.59	0.49	0.43	0.45
Rabbit Key Basin	18	1.73	1.94	1.10	1.23	1.08	1.45	0.75	0.69	0.53	0.59
Twin Key Basin	19	1.38	1.65	2.69	1.82	1.85	1.53	1.03	1.07	0.43	0.49
Peterson Key	20	0.69	0.97	2.16	1.80	1.63	1.33	0.68	0.78	0.34	0.27
Porpoise Lake	21	2.40	0.84	2.64	1.44	2.68	1.77	1.28	0.79	0.90	0.87
Captain's Key	22	0.99	0.29	1.19	1.07	2.12	1.58	0.75	0.72	0.47	0.41
Park Key	23	0.31	0.11	0.36	0.18	0.37	0.23	0.31	0.23	0.44	0.47
Butternut Key	24	0.29	0.11	0.25	0.14	0.24	0.08	0.24	0.12	0.31	0.35
East Cape	25			0.26	0.41	0.30	0.44	0.16	0.20	0.11	0.05
Oxfoot Bank	26			0.44	0.51	0.49	0.56	0.26	0.21	0.14	0.09
Sprigger Bank	27			0.71	1.16	0.30	0.42	0.17	0.16	0.15	0.14
Old Dan Bank	28			0.49	0.55	0.43	0.62	0.26	0.52	0.21	0.22
First Bay	29			0.25	0.40	0.13	0.10	0.42	0.16	0.45	0.50
Third Bay	30			0.43	0.35	0.56	0.43	0.55	0.19	0.67	0.63
Big Lostman's Bay	31			0.66	0.39	1.26	0.94	0.32	0.16	0.58	0.52
Cabbage Island	32			0.88	0.50	1.23	1.02	0.37	0.30	1.02	0.76
Broad River Bay	33			0.41	0.19	0.61	0.68	0.30	0.17	0.81	0.85
Middle Broad River	34			0.26	0.23	0.30	0.44	0.24	0.11	0.40	0.44
Mouth Broad River	35			0.19	0.25	0.09	0.06	0.16	0.09	0.19	0.14
S. Mouth Harney R.	36			0.07	0.03	0.06	0.03	0.07	0.04	0.10	0.12
Harney River Junction	37			0.13	0.07	0.11	0.09	0.13	0.08	0.15	0.14
Tarpon Bay	38			0.37	0.16	0.42	0.26	0.25	0.14	0.43	0.25
Gunboat Island	39			0.20	0.11	0.17	0.16	0.17	0.10	0.19	0.14
Ponce De Leon Bay	40			0.05	0.03	0.06	0.05	0.27	0.45	0.17	0.24
Oyster Bay	41			0.37	0.92	0.09	0.16	0.37	0.43	0.32	0.45
N of Marker 36	42			0.79	0.80	0.31	0.27	1.27	0.68	0.87	0.82
W of marker 34	43			1.49	1.22	0.53	0.57	1.95	0.71	1.56	0.99
Watson R. Chickee	44			0.92	1.15	0.34	0.29	0.90	0.75	1.00	1.04
Mouth North River	45			2.18	1.23	0.42	0.24	1.35	0.94	1.55	1.04
Midway Keys	46			2.49	1.28	0.75	0.51	2.60	0.84	2.06	0.69
Mouth of Roberts R.	47			1.89	1.31	0.37	0.14	1.01	0.88	1.71	1.02
W of Marker 18	48			2.92	1.01	0.71	0.38	2.43	0.75	2.34	0.87
SE of Marker 12	49			2.73	1.27	0.56	0.23	2.06	1.00	2.30	0.83
Coot Bay	50			2.99	1.21	0.58	0.41	1.30	1.10	2.60	0.92
All Stations		1.18	0.55	1.12	0.52	0.87	0.51	0.75	0.41	0.7373	0.3226

Table 12a: Florida Bay/Whitewater Bay Chlorophyll-a (ug/l)

Station Name	Station Number	N POR	Min POR	Max POR	Mean POR	S.D. POR	Coef. Var. POR
Card Sound Bridge	1	71	0.08	2.43	0.70	0.41	0.59
Middle Bay	2	71	0.12	1.35	0.65	0.35	0.54
Manatee Bay	3	71	0.06	1.17	0.60	0.30	0.50
Barnes Sound	4	71	0.06	1.47	0.64	0.34	0.53
Blackwater Sound	5	70	0.04	1.41	0.65	0.35	0.54
L. Blackwater Snd	6	71	0.12	2.43	0.79	0.40	0.51
Highway Creek	7	71	0.02	4.07	0.69	0.60	0.87
Long Sound	8	71	0.17	2.12	0.83	0.40	0.48
Duck Key	9	71	0.11	1.57	0.64	0.34	0.53
Joe Bay	10	71	0.10	2.97	1.29	0.65	0.51
L. Madeira Bay	11	70	0.14	2.01	0.74	0.33	0.45
Terrapin Bay	12	70	0.21	8.80	2.76	1.98	0.72
Whipray Basin	13	70	0.34	6.44	2.40	1.56	0.65
Garfield Bight	14	69	0.21	11.31	3.94	3.02	0.77
Rankin Lake	15	70	0.54	11.64	3.38	2.82	0.84
Murray Key	16	70	0.42	9.41	2.90	1.85	0.64
Johnson Key Basin	17	70	0.36	11.62	2.56	1.95	0.76
Rabbit Key Basin	18	70	0.31	7.70	2.14	1.58	0.74
Twin Key Basin	19	70	0.09	11.35	1.84	2.06	1.12
Peterson Key	20	71	0.18	6.44	1.23	1.11	0.90
Porpoise Lake	21	71	0.07	5.81	1.59	1.38	0.87
Captain's Key	22	70	0.10	5.26	1.19	0.98	0.82
Park Key	23	70	0.12	2.37	0.70	0.43	0.61
Butternut Key	24	71	0.14	1.66	0.69	0.39	0.56
East Cape	25	55	0.45	6.68	2.67	1.49	0.56
Oxfoot Bank	26	55	0.72	7.62	3.09	1.69	0.55
Sprigger Bank	27	55	0.24	8.23	1.79	1.73	0.97
Old Dan Bank	28	55	0.14	2.59	0.92	0.65	0.71
First Bay	29	52	0.41	13.53	3.51	2.41	0.69
Third Bay	30	52	0.42	9.41	4.24	2.26	0.53
Big Lostman's Bay	31	52	0.19	8.53	2.57	2.09	0.81
Cabbage Island	32	52	0.50	10.73	3.85	2.52	0.65
Broad River Bay	33	52	0.51	15.09	3.34	2.92	0.88
Middle Broad River	34	52	0.43	10.04	3.19	2.12	0.66
Mouth Broad River	35	52	0.57	13.06	4.02	2.75	0.68
S. Mouth Harney R.	36	52	0.45	6.33	3.09	1.48	0.48
Harney River Junction	37	52	0.44	5.25	1.92	1.13	0.59
Tarpon Bay	38	52	0.54	8.47	2.42	1.51	0.62
Gunboat Island	39	52	0.45	5.18	1.77	0.87	0.49
Ponce De Leon Bay	40	52	0.31	5.99	2.34	1.21	0.52
Oyster Bay	41	52	0.40	7.74	2.44	1.39	0.57
N of Marker 36	42	52	0.52	8.59	2.63	1.95	0.74
W of marker 34	43	52	0.38	8.87	2.99	2.02	0.68
Watson R. Chickee	44	52	0.58	7.76	2.64	1.78	0.68
Mouth North River	45	52	0.56	9.56	2.83	2.05	0.72
Midway Keys	46	52	0.47	11.08	3.95	2.60	0.66
Mouth of Roberts R.	47	52	0.48	8.06	2.66	1.98	0.75
W of Marker 18	48	52	0.42	9.69	3.99	2.37	0.59
SE of Marker 12	49	51	0.51	12.25	4.58	2.99	0.65
Coot Bay	50	51	1.21	17.78	6.00	3.90	0.65
All Stations		50	0.02	17.78	2.30	0.91	0.39

POR = Period of Record as indicated on Table 1.

Table 12b: Florida Bay/Whitewater Bay Chlorophyll-a (ug/l)

Station Name	Station Number	Mean 1992	S.D. 1992	Mean 1993	S.D. 1993	Mean 1994	S.D. 1994	Mean 1995	S.D. 1995	Mean 1996	S.D. 1996
Card Sound Bridge	1	0.98	0.52	0.98	0.15	0.74	0.31	0.30	0.08	0.32	0.15
Middle Bay	2	0.87	0.28	0.86	0.11	0.60	0.35	0.31	0.10	0.33	0.14
Manatee Bay	3	0.83	0.26	0.81	0.12	0.54	0.20	0.35	0.21	0.34	0.19
Barnes Sound	4	0.84	0.31	0.90	0.12	0.58	0.33	0.30	0.08	0.34	0.16
Blackwater Sound	5	0.92	0.34	0.89	0.17	0.63	0.33	0.35	0.13	0.29	0.13
L. Blackwater Snd	6	0.95	0.39	0.80	0.12	0.79	0.55	0.66	0.33	0.57	0.23
Highway Creek	7	1.03	1.10	0.49	0.39	0.65	0.38	0.48	0.24	0.75	0.40
Long Sound	8	1.07	0.43	0.74	0.27	0.83	0.43	0.80	0.50	0.69	0.37
Duck Key	9	0.81	0.24	0.86	0.13	0.58	0.35	0.31	0.09	0.38	0.20
Joe Bay	10	1.03	0.50	1.42	0.59	0.78	0.30	1.55	0.57	1.97	0.67
L. Madeira Bay	11	0.87	0.23	0.78	0.12	0.59	0.32	0.44	0.21	0.84	0.45
Terrapin Bay	12	2.34	1.38	4.42	2.05	3.70	2.24	2.52	1.74	1.65	1.72
Whipray Basin	13	2.11	1.28	3.64	1.54	3.07	1.28	2.12	1.62	1.70	1.74
Garfield Bight	14	3.28	3.25	4.09	2.76	6.18	3.24	3.86	3.48	2.89	1.75
Rankin Lake	15	3.34	3.75	3.73	2.51	5.50	2.98	3.01	2.68	2.01	1.18
Murray Key	16	2.40	1.19	2.41	1.14	2.69	1.12	3.25	2.43	4.15	2.66
Johnson Key Basin	17	2.40	1.25	2.71	1.24	2.82	1.83	3.06	2.51	2.75	3.04
Rabbit Key Basin	18	2.41	2.24	1.84	1.69	2.04	1.58	2.56	1.42	2.08	1.03
Twin Key Basin	19	1.85	1.66	3.06	1.89	3.15	3.38	1.07	0.91	0.45	0.33
Peterson Key	20	1.24	0.57	2.40	1.79	1.30	0.90	0.85	0.91	0.52	0.49
Porpoise Lake	21	1.54	0.41	2.51	1.45	2.11	1.99	1.05	1.25	1.00	1.33
Captain's Key	22	1.44	0.72	1.69	1.11	1.69	1.44	0.69	0.63	0.56	0.45
Park Key	23	0.98	0.28	0.92	0.14	0.67	0.61	0.34	0.23	0.37	0.23
Butternut Key	24	1.02	0.21	0.91	0.06	0.55	0.37	0.27	0.10	0.37	0.19
East Cape	25			2.28	1.01	2.95	1.38	2.54	1.39	2.70	1.71
Oxfoot Bank	26			2.87	1.37	3.71	1.67	3.07	1.60	2.59	1.88
Sprigger Bank	27			1.96	1.36	2.00	1.85	1.68	2.14	1.35	1.24
Old Dan Bank	28			1.23	0.45	0.86	0.65	0.53	0.33	0.93	0.95
First Bay	29			2.38	1.30	2.20	1.42	5.80	3.09	3.50	1.94
Third Bay	30			3.21	1.87	3.31	1.65	5.72	2.63	4.70	2.33
Big Lostman's Bay	31			2.36	1.53	3.82	2.59	1.82	1.72	2.48	2.30
Cabbage Island	32			3.67	1.94	3.33	1.91	3.62	3.10	4.75	3.28
Broad River Bay	33			2.66	1.17	3.79	3.04	2.65	2.20	4.45	4.52
Middle Broad River	34			2.76	1.79	2.37	1.03	3.21	1.89	3.87	3.02
Mouth Broad River	35			3.98	2.52	2.52	1.20	5.21	3.88	3.76	2.41
S. Mouth Harney R.	36			2.75	1.07	2.51	1.16	3.87	1.68	2.92	1.63
Harney River Junction	37			1.93	1.04	1.43	0.67	2.12	1.52	1.70	0.88
Tarpon Bay	38			2.36	1.11	2.99	1.52	1.56	0.90	2.83	2.16
Gunboat Island	39			1.65	0.59	1.69	0.84	1.62	0.65	1.62	0.76
Ponce De Leon Bay	40			2.30	1.17	2.03	0.81	3.37	1.30	1.87	1.14
Oyster Bay	41			1.70	0.55	2.35	1.28	3.71	1.62	1.98	1.31
N of Marker 36	42			1.69	1.07	1.69	1.24	4.21	2.04	2.84	2.38
W of marker 34	43			1.89	1.03	1.53	1.27	5.22	2.10	3.34	1.60
Watson R. Chickee	44			1.47	0.69	1.80	0.93	4.47	1.91	2.80	1.93
Mouth North River	45			2.04	1.31	1.40	0.72	4.36	2.47	3.61	2.19
Midway Keys	46			2.86	2.09	1.72	1.28	6.15	1.35	5.28	3.07
Mouth of Roberts R.	47			2.35	1.66	1.23	0.40	3.40	2.25	3.96	2.26
W of Marker 18	48			3.66	2.29	1.92	0.89	5.69	2.46	5.22	1.80
SE of Marker 12	49			4.89	3.33	2.16	1.58	6.02	2.55	6.15	2.83
Coot Bay	50			6.71	3.66	3.72	4.62	5.99	2.88	8.29	3.85
All Stations		1.52	0.96	2.27	0.87	2.08	0.95	2.56	1.03	2.3363	1.0942

Table 13a: Florida Bay/Whitewater Bay Total Organic Carbon (ppm of C)

Station Name	Station Number	N POR	Min POR	Max POR	Mean POR	S.D. POR	Coef. Var. POR
Card Sound Bridge	1	71	2.76	23.04	6.53	2.79	0.43
Middle Bay	2	71	3.67	28.93	8.12	3.39	0.42
Manatee Bay	3	71	5.26	19.04	8.71	1.99	0.23
Barnes Sound	4	71	4.23	14.34	7.39	1.52	0.21
Blackwater Sound	5	71	4.92	12.85	7.91	1.40	0.18
L. Blackwater Snd	6	71	5.88	14.09	9.19	1.63	0.18
Highway Creek	7	71	6.44	24.24	11.86	3.23	0.27
Long Sound	8	71	7.20	17.80	10.35	2.12	0.20
Duck Key	9	71	5.32	11.47	8.30	1.36	0.16
Joe Bay	10	71	7.13	20.43	11.54	2.51	0.22
L. Madeira Bay	11	71	7.21	27.42	10.68	2.72	0.25
Terrapin Bay	12	71	8.44	37.39	16.58	5.31	0.32
Whipray Basin	13	70	5.28	33.34	14.22	5.54	0.39
Garfield Bight	14	69	5.98	42.87	19.06	7.97	0.42
Rankin Lake	15	70	4.52	31.42	15.01	6.70	0.45
Murray Key	16	69	2.52	15.93	5.92	2.41	0.41
Johnson Key Basin	17	70	3.09	16.76	7.00	2.71	0.39
Rabbit Key Basin	18	70	2.10	20.22	7.17	3.74	0.52
Twin Key Basin	19	69	3.24	19.67	9.56	3.73	0.39
Peterson Key	20	70	1.85	23.94	7.67	3.45	0.45
Porpoise Lake	21	70	5.54	58.04	12.72	6.55	0.51
Captain's Key	22	69	6.44	20.26	10.93	3.02	0.28
Park Key	23	70	6.57	12.50	9.32	1.50	0.16
Butternut Key	24	71	6.06	27.42	8.79	2.65	0.30
East Cape	25	54	2.14	12.88	4.52	1.62	0.36
Oxfoot Bank	26	54	1.36	17.34	4.55	2.28	0.50
Sprigger Bank	27	54	1.20	14.61	4.05	2.34	0.58
Old Dan Bank	28	54	1.29	7.88	3.98	1.63	0.41
First Bay	29	52	6.07	64.01	14.62	9.82	0.67
Third Bay	30	52	7.90	30.12	14.76	4.42	0.30
Big Lostman's Bay	31	52	7.77	53.32	14.56	6.59	0.45
Cabbage Island	32	52	8.05	40.85	16.75	5.59	0.33
Broad River Bay	33	52	8.94	56.63	17.28	7.20	0.42
Middle Broad River	34	52	9.15	31.21	15.95	4.20	0.26
Mouth Broad River	35	52	7.57	24.45	14.21	3.56	0.25
S. Mouth Harney R.	36	52	7.17	27.05	13.72	4.97	0.36
Harney River Junction	37	52	11.30	49.81	20.05	6.30	0.31
Tarpon Bay	38	52	12.54	34.06	21.33	5.14	0.24
Gunboat Island	39	52	9.66	34.32	19.18	5.89	0.31
Ponce De Leon Bay	40	52	3.83	27.17	8.88	3.94	0.44
Oyster Bay	41	52	4.74	26.60	10.93	3.93	0.36
N of Marker 36	42	52	6.14	29.35	15.15	4.44	0.29
W of marker 34	43	52	8.62	28.52	15.98	3.84	0.24
Watson R. Chickee	44	52	9.59	26.93	17.12	3.87	0.23
Mouth North River	45	52	10.06	28.72	17.12	3.57	0.21
Midway Keys	46	52	12.21	26.95	17.50	3.21	0.18
Mouth of Roberts R.	47	52	6.98	30.70	16.83	4.85	0.29
W of Marker 18	48	52	13.61	31.33	19.48	3.94	0.20
SE of Marker 12	49	52	15.49	31.17	20.41	3.69	0.18
Coot Bay	50	51	17.73	39.63	24.69	5.29	0.21
All Stations		50	1.20	64.01	12.56	1.87	0.15

POR = Period of Record as indicated on Table 1.

Table 13b: Florida Bay/Whitewater Bay Total Organic Carbon (ppm of C)

Station Name	Station Number	Mean 1992	S.D. 1992	Mean 1993	S.D. 1993	Mean 1994	S.D. 1994	Mean 1995	S.D. 1995	Mean 1996	S.D. 1996
Card Sound Bridge	1	7.52	5.05	5.82	1.89	7.73	3.17	6.42	0.98	5.65	1.12
Middle Bay	2	9.46	6.29	6.81	2.23	8.96	3.88	8.06	1.73	7.46	1.22
Manatee Bay	3	9.17	1.66	7.77	1.42	9.59	3.34	8.58	1.12	8.35	1.62
Barnes Sound	4	7.66	1.39	6.74	1.29	8.04	2.12	7.51	1.15	6.94	1.28
Blackwater Sound	5	7.91	0.79	6.75	1.20	8.70	1.77	8.35	1.09	7.59	1.22
L. Blackwater Snd	6	9.21	1.21	8.42	1.33	9.77	2.02	9.40	1.27	8.42	1.25
Highway Creek	7	12.26	1.92	11.71	3.02	12.71	5.62	11.21	2.95	11.45	2.48
Long Sound	8	10.40	1.18	9.55	1.84	11.19	3.13	10.46	1.74	9.62	1.94
Duck Key	9	7.89	0.81	6.84	0.96	8.81	1.49	8.60	1.13	8.70	1.21
Joe Bay	10	10.73	1.71	11.60	2.92	11.37	3.13	12.34	2.15	12.13	2.86
L. Madeira Bay	11	11.15	5.25	10.19	2.54	11.16	1.88	10.21	1.42	10.13	1.48
Terrapin Bay	12	15.55	3.17	21.14	7.92	17.01	3.78	16.02	5.23	12.12	3.29
Whipray Basin	13	15.13	6.62	17.48	8.18	14.96	4.17	12.05	3.12	10.72	3.12
Garfield Bight	14	21.48	8.62	19.67	8.28	20.74	6.61	15.78	5.94	12.62	3.92
Rankin Lake	15	16.48	8.93	16.17	8.75	17.44	5.54	13.78	6.38	11.46	3.11
Murray Key	16	4.94	1.04	4.81	1.46	7.70	3.55	5.87	1.03	6.19	2.05
Johnson Key Basin	17	6.83	2.46	5.44	1.73	8.00	3.45	6.89	1.57	7.48	3.24
Rabbit Key Basin	18	9.39	5.44	5.30	1.68	7.29	4.05	6.56	2.61	6.58	2.07
Twin Key Basin	19	9.94	4.88	10.26	3.47	10.15	4.89	8.22	1.96	7.27	1.73
Peterson Key	20	8.18	5.75	7.48	4.47	8.03	2.84	7.48	1.73	7.02	2.49
Porpoise Lake	21	16.23	13.51	13.21	4.27	12.50	4.36	11.23	2.59	10.69	4.11
Captain's Key	22	9.66	1.74	10.85	3.32	13.72	4.16	10.35	2.66	10.03	2.22
Park Key	23	9.13	1.66	8.60	1.40	9.34	1.23	9.27	1.16	9.41	1.76
Butternut Key	24	8.56	1.96	7.45	1.16	8.80	1.47	8.51	0.94	8.63	1.20
East Cape	25			3.91	1.04	5.38	2.65	4.68	1.48	4.49	0.52
Oxfoot Bank	26			3.56	1.18	5.81	4.06	4.62	1.09	4.15	1.20
Sprigger Bank	27			3.74	2.38	4.07	1.79	3.91	1.12	3.74	1.07
Old Dan Bank	28			3.19	0.94	4.37	1.95	4.83	1.29	4.10	1.76
First Bay	29			21.01	18.52	13.57	5.50	11.83	1.88	11.80	2.49
Third Bay	30			17.69	5.51	15.14	5.78	12.22	2.09	13.41	1.73
Big Lostman's Bay	31			19.05	11.51	15.05	4.59	11.13	2.41	13.06	1.88
Cabbage Island	32			21.38	8.31	17.08	4.39	12.83	2.94	15.17	1.88
Broad River Bay	33			22.32	11.79	18.18	6.21	13.48	3.23	15.26	1.79
Middle Broad River	34			18.14	3.55	17.39	6.29	13.82	2.96	14.06	2.03
Mouth Broad River	35			15.44	4.59	14.99	4.38	13.11	2.50	12.68	2.21
S. Mouth Harney R.	36			14.87	7.31	14.70	5.26	13.02	3.50	11.95	3.34
Harney River Junction	37			24.96	9.75	19.04	4.02	17.38	3.39	17.56	3.65
Tarpon Bay	38			25.68	5.09	21.54	4.77	18.02	4.46	18.84	2.51
Gunboat Island	39			23.07	6.73	18.67	5.94	16.79	3.36	15.85	3.83
Ponce De Leon Bay	40			9.62	6.12	8.22	4.81	9.90	1.86	8.15	1.89
Oyster Bay	41			10.35	3.82	11.33	6.90	11.85	1.20	9.85	2.18
N of Marker 36	42			17.17	6.02	13.60	5.68	15.45	2.42	14.06	2.83
W of marker 34	43			17.33	4.37	15.00	5.93	16.09	1.90	15.20	2.46
Watson R. Chickee	44			19.03	3.61	15.73	5.09	16.90	2.83	15.45	2.64
Mouth North River	45			19.54	3.81	16.23	4.35	16.05	3.48	16.43	2.05
Midway Keys	46			19.58	4.00	16.89	3.80	16.18	2.26	17.33	2.21
Mouth of Roberts R.	47			19.59	5.27	17.53	5.64	14.57	4.67	16.52	3.16
W of Marker 18	48			22.82	4.70	19.27	4.46	17.20	1.88	18.85	2.72
SE of Marker 12	49			23.56	4.54	20.34	3.37	18.17	1.97	19.28	2.74
Coot Bay	50			26.75	5.13	24.37	5.71	22.94	3.32	22.78	4.42
All Stations		10.62	3.24	13.67	3.47	12.94	1.50	11.60	1.28	11.3332	0.8859

Table 14: Florida Bay/Whitewater Bay Silica (mg/l of Si)

Station Name	Station Number	N POR	Min POR	Max POR	Mean POR	S.D. POR	Coef. Var. POR
Card Sound Bridge	1	4	0.0823	0.5200	0.3089	0.1897	0.6140
Middle Bay	2	4	0.0548	0.4656	0.2371	0.2027	0.8548
Manatee Bay	3	4	0.2129	0.8785	0.5511	0.3754	0.6812
Barnes Sound	4	4	0.1362	0.6479	0.3841	0.2449	0.6375
Blackwater Sound	5	4	0.1416	0.5403	0.3259	0.1810	0.5552
L. Blackwater Snd	6	4	0.2671	1.5354	0.8810	0.6287	0.7136
Highway Creek	7	4	0.3582	1.5728	0.9835	0.5140	0.5226
Long Sound	8	4	0.2164	1.9660	1.0873	0.8781	0.8076
Duck Key	9	4	0.2479	0.6185	0.4285	0.1527	0.3563
Joe Bay	10	4	0.0670	1.7975	0.8890	0.8586	0.9658
L. Madeira Bay	11	4	0.2010	2.0496	0.9723	0.7767	0.7988
Terrapin Bay	12	4	0.7155	2.9579	1.8212	1.2183	0.6689
Whipray Basin	13	4	0.1043	2.6113	1.0730	1.1474	1.0693
Garfield Bight	14	4	0.4662	2.9101	1.4267	1.1217	0.7862
Rankin Lake	15	4	0.3973	2.0035	0.9073	0.7381	0.8135
Murray Key	16	4	0.2038	1.5666	0.7635	0.5751	0.7532
Johnson Key Basin	17	4	0.2239	0.8925	0.5148	0.3082	0.5986
Rabbit Key Basin	18	4	0.0862	0.4225	0.2402	0.1445	0.6017
Twin Key Basin	19	4	0.0728	1.1983	0.5003	0.5387	1.0769
Peterson Key	20	4	0.0852	3.4140	1.2638	1.5750	1.2463
Porpoise Lake	21	4	0.2586	2.1751	1.2402	1.0014	0.8075
Captain's Key	22	4	0.4653	1.4598	0.9230	0.4840	0.5244
Park Key	23	4	0.0536	1.1055	0.4987	0.4474	0.8972
Butternut Key	24	4	0.0223	0.6772	0.3800	0.3421	0.9004
East Cape	25	4	0.2330	0.8278	0.4744	0.2923	0.6160
Oxfoot Bank	26	4	0.0375	0.5323	0.3138	0.2060	0.6566
Sprigger Bank	27	4	0.0219	0.3044	0.1614	0.1158	0.7173
Old Dan Bank	28	4	0.0010	0.4062	0.2185	0.1986	0.9089
First Bay	29	4	0.7254	2.1574	1.3714	0.7147	0.5211
Third Bay	30	4	0.7318	2.3821	1.6665	0.8223	0.4934
Big Lostman's Bay	31	4	1.3055	3.3943	2.3616	0.9884	0.4185
Cabbage Island	32	4	0.4472	3.1874	1.5914	1.3275	0.8342
Broad River Bay	33	4	0.4928	2.6841	1.5343	1.0068	0.6562
Middle Broad River	34	4	0.5375	2.4548	1.4995	0.9218	0.6147
Mouth Broad River	35	4	0.5683	2.4256	1.5538	0.8219	0.5290
S. Mouth Harney R.	36	4	1.1528	2.1923	1.5663	0.4458	0.2846
Harney River Junction	37	4	1.3568	3.5620	2.4190	1.1443	0.4730
Tarpon Bay	38	4	1.2199	3.5620	2.3929	1.1269	0.4709
Gunboat Island	39	4	1.3989	3.1836	2.3446	0.8177	0.3488
Ponce De Leon Bay	40	4	0.4404	3.9066	1.6559	1.5375	0.9285
Oyster Bay	41	4	0.8484	4.6879	2.0095	1.8162	0.9038
N of Marker 36	42	4	0.9562	4.0232	2.0519	1.3504	0.6581
W of marker 34	43	4	0.8556	4.8628	2.1748	1.8169	0.8354
Watson R. Chickee	44	4	1.3029	3.1602	1.8601	0.8720	0.4688
Mouth North River	45	4	1.3853	3.2419	1.9018	0.8949	0.4706
Midway Keys	46	4	1.6384	4.0348	2.3727	1.1193	0.4717
Mouth of Roberts R.	47	4	0.4304	1.7142	0.9788	0.5362	0.5478
W of Marker 18	48	4	1.8118	3.9182	2.5074	0.9549	0.3808
SE of Marker 12	49	4	1.4651	3.2185	2.1692	0.8137	0.3751
Coot Bay	50	4	2.3487	4.1514	3.1079	0.7594	0.2443
All Stations		50	0.0223	3.4140	0.7630	0.3895	0.5105

POR = Period of Record as indicated on Table 1.

Table 15a: Florida Bay/Whitewater Bay Turbidity (NTU)

Station Name	Station Number	N POR	Min POR	Max POR	Mean POR	S.D. POR	Coef. Var. POR
Card Sound Bridge	1	71	0.15	8.25	1.43	1.36	0.95
Middle Bay	2	71	0.30	85.59	4.35	12.57	2.89
Manatee Bay	3	71	0.15	3.10	0.87	0.55	0.64
Barnes Sound	4	71	0.01	10.30	0.97	1.47	1.51
Blackwater Sound	5	71	0.13	5.95	1.12	1.11	0.98
L. Blackwater Snd	6	71	0.50	17.30	5.59	3.89	0.70
Highway Creek	7	71	0.04	31.65	3.05	4.24	1.39
Long Sound	8	71	0.53	22.50	6.84	4.99	0.73
Duck Key	9	71	0.27	45.05	6.94	8.41	1.21
Joe Bay	10	71	1.29	15.50	6.19	3.38	0.55
L. Madeira Bay	11	71	0.88	65.04	12.35	10.78	0.87
Terrapin Bay	12	71	0.31	30.89	5.90	4.86	0.82
Whipray Basin	13	71	0.19	47.40	6.94	7.55	1.09
Garfield Bight	14	70	0.26	125.60	19.01	22.76	1.20
Rankin Lake	15	71	0.15	89.55	13.96	16.58	1.19
Murray Key	16	70	2.53	123.50	18.70	23.19	1.24
Johnson Key Basin	17	71	0.08	178.55	16.76	26.76	1.60
Rabbit Key Basin	18	71	0.07	132.35	8.12	16.76	2.07
Twin Key Basin	19	70	0.16	35.74	3.47	5.41	1.56
Peterson Key	20	71	0.20	12.35	2.27	1.95	0.86
Porpoise Lake	21	71	0.35	15.00	3.28	2.84	0.87
Captain's Key	22	70	0.41	92.02	7.07	12.37	1.75
Park Key	23	70	0.22	114.95	9.83	15.84	1.61
Butternut Key	24	71	0.31	125.55	13.67	19.06	1.39
East Cape	25	55	0.85	52.37	14.07	12.47	0.89
Oxfoot Bank	26	55	2.80	162.10	20.01	23.88	1.19
Sprigger Bank	27	55	0.80	113.10	9.97	20.69	2.07
Old Dan Bank	28	54	0.35	37.05	3.18	5.17	1.63
First Bay	29	52	0.64	19.25	7.19	4.05	0.56
Third Bay	30	52	0.64	45.40	7.29	6.72	0.92
Big Lostman's Bay	31	52	0.35	12.60	2.89	2.23	0.77
Cabbage Island	32	52	0.40	26.10	2.87	3.51	1.22
Broad River Bay	33	52	0.50	22.60	3.02	3.23	1.07
Middle Broad River	34	52	1.25	28.95	5.39	4.54	0.84
Mouth Broad River	35	52	0.79	47.65	7.63	7.40	0.97
S. Mouth Harney R.	36	52	0.94	47.30	8.82	8.30	0.94
Harney River Junction	37	52	0.79	9.70	3.41	2.16	0.63
Tarpon Bay	38	52	0.60	6.25	2.02	1.29	0.64
Gunboat Island	39	52	0.45	7.65	2.70	1.60	0.59
Ponce De Leon Bay	40	52	0.74	12.51	5.17	3.39	0.66
Oyster Bay	41	52	1.98	20.35	6.49	3.86	0.59
N of Marker 36	42	52	1.04	101.60	8.95	16.54	1.85
W of marker 34	43	52	0.84	77.17	6.91	10.61	1.54
Watson R. Chickee	44	52	1.50	56.95	8.39	8.82	1.05
Mouth North River	45	52	0.59	36.85	8.09	7.97	0.99
Midway Keys	46	52	0.59	70.09	8.01	12.08	1.51
Mouth of Roberts R.	47	52	0.74	20.54	5.34	4.08	0.76
W of Marker 18	48	52	0.54	107.81	12.24	23.03	1.88
SE of Marker 12	49	52	0.54	97.30	11.67	21.72	1.86
Coot Bay	50	51	1.39	94.15	14.54	18.16	1.25
All Stations		50	0.01	178.55	7.50	7.51	1.00

POR = Period of Record as indicated on Table 1.

Table 15b: Florida Bay/Whitewater Bay Turbidity (NTU)

Station Name	Station Number	Mean 1992	S.D. 1992	Mean 1993	S.D. 1993	Mean 1994	S.D. 1994	Mean 1995	S.D. 1995	Mean 1996	S.D. 1996
Card Sound Bridge	1	1.66	1.24	2.33	2.22	2.31	2.04	1.82	0.98	1.94	1.23
Middle Bay	2	17.21	48.52	4.65	3.39	3.60	4.70	2.49	1.93	7.26	18.40
Manatee Bay	3	1.74	1.01	1.80	0.88	0.93	0.46	1.37	0.80	0.72	0.24
Barnes Sound	4	0.97	0.80	1.16	1.01	1.36	2.72	1.23	0.72	1.84	1.65
Blackwater Sound	5	1.58	0.91	2.98	2.68	1.29	1.01	1.45	1.63	1.29	0.94
L. Blackwater Snd	6	11.25	8.93	10.94	6.75	6.13	3.71	6.72	3.86	7.03	3.43
Highway Creek	7	4.60	2.09	5.54	6.66	3.38	2.96	2.68	2.46	5.65	8.57
Long Sound	8	15.11	11.41	10.39	5.57	7.01	3.85	9.00	5.78	9.22	5.69
Duck Key	9	9.91	8.30	15.10	12.71	5.27	4.26	8.62	9.08	10.24	13.66
Joe Bay	10	13.01	8.39	14.21	7.43	6.20	2.29	6.64	3.26	6.81	2.37
L. Madeira Bay	11	34.89	34.79	20.10	14.36	12.13	11.90	10.15	4.53	16.87	8.22
Terrapin Bay	12	6.05	4.35	14.74	7.71	9.04	7.62	6.62	3.36	7.30	2.88
Whipray Basin	13	10.80	7.80	18.94	10.43	7.39	6.45	9.18	12.69	8.48	7.76
Garfield Bight	14	14.67	17.44	27.01	32.48	24.05	20.87	31.57	25.91	30.00	32.09
Rankin Lake	15	7.61	7.84	22.26	17.94	17.96	11.84	23.23	25.00	23.97	19.52
Murray Key	16	40.03	39.23	49.04	47.99	11.82	8.01	11.08	6.11	37.38	40.03
Johnson Key Basin	17	11.12	17.52	30.56	21.54	28.41	47.00	26.55	33.61	20.68	12.56
Rabbit Key Basin	18	4.61	5.75	6.13	3.03	7.91	8.32	21.13	36.72	12.25	6.00
Twin Key Basin	19	3.41	3.17	7.73	6.92	6.31	9.21	5.64	6.83	1.88	1.20
Peterson Key	20	3.44	2.26	6.97	4.01	2.49	1.43	3.07	3.22	2.04	0.92
Porpoise Lake	21	4.25	1.39	8.03	5.82	4.31	3.07	4.22	4.15	3.68	2.13
Captain's Key	22	11.32	9.49	10.11	6.57	12.31	24.20	8.22	13.66	8.15	5.46
Park Key	23	26.98	30.20	16.97	18.67	6.54	5.09	9.31	9.62	17.30	31.55
Butternut Key	24	31.96	37.72	23.84	18.00	8.54	5.89	12.50	14.30	29.14	34.81
East Cape	25			24.79	26.75	16.49	15.24	11.41	6.30	18.66	13.92
Oxfoot Bank	26			40.37	39.33	18.80	11.59	29.30	43.60	16.23	13.21
Sprigger Bank	27			13.91	18.77	13.18	28.98	16.06	31.15	5.82	3.92
Old Dan Bank	28			3.24	2.84	2.04	1.10	5.74	10.01	4.03	3.52
First Bay	29			11.98	5.09	6.81	5.16	7.88	4.44	8.11	4.44
Third Bay	30			12.86	7.84	6.99	4.90	6.23	4.10	8.96	11.84
Big Lostman's Bay	31			6.05	3.64	3.49	2.14	2.21	1.53	2.85	3.21
Cabbage Island	32			4.40	2.61	2.24	0.97	2.40	1.38	4.83	6.85
Broad River Bay	33			5.01	2.51	3.02	1.84	2.60	1.81	4.38	6.09
Middle Broad River	34			10.76	6.61	6.20	3.81	4.95	2.97	5.83	7.62
Mouth Broad River	35			12.41	6.75	7.27	4.46	7.35	4.61	11.14	13.36
S. Mouth Harney R.	36			12.29	9.41	8.42	4.98	9.87	6.27	11.60	14.19
Harney River Junction	37			7.03	3.12	3.50	1.95	3.55	2.21	3.47	3.13
Tarpon Bay	38			4.38	2.58	2.49	1.32	1.58	1.09	2.05	1.54
Gunboat Island	39			5.75	2.83	3.07	1.79	2.61	1.27	2.73	2.02
Ponce De Leon Bay	40			7.72	6.17	6.49	3.91	5.14	2.81	5.78	3.90
Oyster Bay	41			10.88	6.31	6.88	3.92	7.98	3.62	6.08	5.11
N of Marker 36	42			18.91	38.91	3.39	3.12	7.53	3.17	16.00	27.89
W of marker 34	43			20.85	42.47	3.24	2.85	7.06	3.48	7.40	4.58
Watson R. Chickee	44			8.74	3.88	6.48	4.20	11.81	6.51	11.48	15.81
Mouth North River	45			12.44	13.65	3.93	2.39	10.35	5.04	13.01	12.51
Midway Keys	46			20.90	38.07	3.10	3.02	6.45	2.74	13.08	15.16
Mouth of Roberts R.	47			11.76	11.42	3.81	2.72	5.64	3.18	6.22	4.73
W of Marker 18	48			29.06	59.52	2.87	3.06	10.18	11.45	23.53	34.15
SE of Marker 12	49			26.06	48.58	4.15	7.26	9.35	10.90	22.58	34.69
Coot Bay	50			40.94	40.15	6.02	4.72	10.58	11.18	24.90	26.43
All Stations		12.01	14.25	14.30	15.07	7.02	8.24	8.61	9.97	10.6367	10.8304

Table 16a: Florida Bay/Whitewater Bay Surface Salinity (ppt)

Station Name	Station Number	N POR	Min POR	Max POR	Mean POR	S.D. POR	Coef. Var. POR
Card Sound Bridge	1	71	17.50	41.00	29.46	5.20	0.18
Middle Bay	2	71	7.60	41.00	26.29	6.36	0.24
Manatee Bay	3	71	3.30	43.00	24.81	7.09	0.29
Barnes Sound	4	71	11.00	44.00	28.24	6.40	0.23
Blackwater Sound	5	71	10.50	48.00	28.46	7.28	0.26
L. Blackwater Snd	6	71	2.20	47.00	20.64	9.53	0.46
Highway Creek	7	71	0.10	40.00	7.92	10.37	1.31
Long Sound	8	71	0.80	47.00	15.81	9.92	0.63
Duck Key	9	71	10.40	53.00	28.14	8.97	0.32
Joe Bay	10	71	0.20	50.00	11.53	11.45	0.99
L. Madeira Bay	11	71	4.60	53.00	23.39	9.99	0.43
Terrapin Bay	12	71	8.70	56.00	32.84	9.65	0.29
Whipray Basin	13	71	20.50	52.00	35.01	7.26	0.21
Garfield Bight	14	70	13.60	63.00	32.80	9.86	0.30
Rankin Lake	15	71	15.30	55.00	33.66	7.89	0.23
Murray Key	16	71	25.30	50.00	34.19	4.23	0.12
Johnson Key Basin	17	71	26.40	51.00	34.59	4.21	0.12
Rabbit Key Basin	18	71	27.30	44.00	34.79	3.49	0.10
Twin Key Basin	19	70	26.60	45.00	35.20	4.49	0.13
Peterson Key	20	71	28.30	43.00	35.71	3.81	0.11
Porpoise Lake	21	71	24.00	48.30	35.01	5.96	0.17
Captain's Key	22	69	21.50	50.00	32.56	7.07	0.22
Park Key	23	70	13.70	53.00	27.10	8.47	0.31
Butternut Key	24	71	14.30	51.00	29.10	8.43	0.29
East Cape	25	55	25.30	38.30	33.25	3.17	0.10
Oxfoot Bank	26	55	26.80	38.30	33.74	2.66	0.08
Sprigger Bank	27	55	27.60	39.00	34.09	2.44	0.07
Old Dan Bank	28	55	28.60	39.20	34.33	2.40	0.07
First Bay	29	52	0.20	32.20	10.80	9.63	0.89
Third Bay	30	52	0.10	26.60	5.68	7.42	1.31
Big Lostman's Bay	31	52	0.00	27.00	3.27	6.03	1.85
Cabbage Island	32	52	0.10	23.50	3.30	4.77	1.44
Broad River Bay	33	52	0.10	15.80	2.67	3.76	1.41
Middle Broad River	34	52	0.20	27.70	5.75	7.17	1.25
Mouth Broad River	35	52	0.30	29.60	11.92	9.31	0.78
S. Mouth Harney R.	36	52	0.80	31.70	18.82	8.24	0.44
Harney River Junction	37	52	0.40	27.00	8.10	7.99	0.99
Tarpon Bay	38	52	0.10	18.20	2.48	3.67	1.48
Gunboat Island	39	52	0.20	29.00	8.08	8.55	1.06
Ponce De Leon Bay	40	52	9.80	34.90	25.16	6.09	0.24
Oyster Bay	41	52	8.40	33.90	21.64	6.58	0.30
N of Marker 36	42	52	1.20	31.90	15.05	8.07	0.54
W of marker 34	43	52	2.00	30.40	14.89	7.26	0.49
Watson R. Chickee	44	52	0.80	31.00	12.38	7.87	0.64
Mouth North River	45	52	0.60	30.70	10.11	7.87	0.78
Midway Keys	46	52	2.20	28.80	11.25	7.02	0.62
Mouth of Roberts R.	47	52	0.30	29.50	6.92	7.05	1.02
W of Marker 18	48	52	2.70	26.20	9.98	5.87	0.59
SE of Marker 12	49	52	2.60	25.10	9.65	5.73	0.59
Coot Bay	50	52	4.40	25.90	11.38	5.34	0.47
All Stations		50	0.00	63.00	20.84	2.29	0.11

POR = Period of Record as indicated on Table 1.

Table 16b: Florida Bay/Whitewater Bay Surface Salinity (ppt)

Station Name	Station Number	Mean 1992	S.D. 1992	Mean 1993	S.D. 1993	Mean 1994	S.D. 1994	Mean 1995	S.D. 1995	Mean 1996	S.D. 1996
Card Sound Bridge	1	30.37	3.82	30.60	1.83	28.92	4.81	23.37	4.12	28.33	3.22
Middle Bay	2	27.46	6.94	27.68	4.05	24.76	6.33	20.70	4.67	25.00	3.69
Manatee Bay	3	26.13	5.76	26.79	1.79	24.03	6.69	16.90	6.80	23.11	3.71
Barnes Sound	4	29.23	3.88	29.64	2.36	28.60	4.78	20.44	5.46	25.82	3.06
Blackwater Sound	5	30.30	4.55	28.81	2.85	29.40	5.65	19.85	4.85	25.18	3.07
L. Blackwater Snd	6	23.17	10.08	22.44	4.02	20.33	9.15	11.66	6.44	18.26	5.57
Highway Creek	7	11.88	13.12	6.47	7.86	4.95	6.75	2.31	3.51	9.88	8.79
Long Sound	8	19.18	11.11	16.23	5.57	14.75	8.71	7.63	5.24	14.42	7.24
Duck Key	9	31.69	4.16	28.70	2.59	29.90	6.70	17.58	4.32	21.64	3.91
Joe Bay	10	15.95	13.31	9.85	6.43	11.45	9.86	4.27	5.03	9.38	7.31
L. Madeira Bay	11	26.05	7.69	22.12	3.37	24.13	7.30	14.57	6.28	18.19	4.40
Terrapin Bay	12	33.56	7.26	34.85	5.83	34.15	11.69	24.36	4.64	27.52	3.79
Whipray Basin	13	33.94	5.54	37.85	5.65	35.83	8.10	28.33	4.42	31.76	4.14
Garfield Bight	14	29.59	11.16	36.83	5.35	32.92	12.67	26.86	4.19	30.59	4.90
Rankin Lake	15	32.65	6.65	37.73	5.74	34.28	9.91	27.25	6.06	30.82	4.73
Murray Key	16	34.17	2.77	34.84	3.39	34.90	3.80	29.53	2.83	33.80	3.05
Johnson Key Basin	17	35.25	3.16	35.86	3.17	34.22	2.98	29.81	2.05	33.99	3.10
Rabbit Key Basin	18	35.28	2.97	35.61	2.68	34.73	2.57	30.80	2.36	34.11	2.88
Twin Key Basin	19	35.33	2.93	37.06	4.07	34.84	4.18	30.28	1.99	33.98	3.36
Peterson Key	20	36.99	2.34	36.28	3.28	35.35	3.11	31.25	1.95	34.58	3.28
Porpoise Lake	21	36.29	3.85	36.03	5.06	35.53	5.44	28.25	2.72	32.33	3.55
Captain's Key	22	34.25	4.03	32.23	4.67	34.34	6.38	25.53	2.95	28.44	3.72
Park Key	23	29.28	4.93	27.03	3.22	28.79	6.45	19.17	4.56	20.98	3.19
Butternut Key	24	31.28	4.19	29.17	4.57	30.06	7.40	21.13	4.55	23.00	3.45
East Cape	25			34.01	2.67	34.80	2.02	29.66	3.12	33.76	2.78
Oxfoot Bank	26			34.43	1.87	34.71	2.17	31.08	2.84	33.94	2.68
Sprigger Bank	27			34.48	2.29	34.98	1.90	31.93	2.78	34.22	2.20
Old Dan Bank	28			34.90	1.97	34.68	1.82	32.24	2.41	34.71	2.82
First Bay	29			11.58	5.18	18.14	12.84	2.70	2.97	11.62	9.50
Third Bay	30			3.61	2.69	12.80	10.90	0.65	0.47	6.81	5.91
Big Lostman's Bay	31			1.08	0.89	9.50	9.45	0.23	0.17	3.06	4.30
Cabbage Island	32			2.12	1.31	8.27	7.65	0.54	0.38	2.83	2.60
Broad River Bay	33			1.48	0.75	6.38	5.84	0.40	0.27	2.78	2.72
Middle Broad River	34			5.71	4.32	10.21	9.70	1.10	1.36	6.97	8.42
Mouth Broad River	35			12.58	8.02	16.73	11.48	6.38	5.19	13.98	9.61
S. Mouth Harney R.	36			18.84	7.52	22.33	10.63	14.77	6.04	19.74	8.22
Harney River Junction	37			8.51	6.73	13.60	10.38	2.93	1.72	8.71	8.28
Tarpon Bay	38			1.61	1.05	5.51	5.86	0.54	0.44	2.79	3.28
Gunboat Island	39			8.03	7.46	12.79	11.32	3.48	3.30	10.03	8.86
Ponce De Leon Bay	40			27.20	2.54	28.93	6.71	19.16	5.36	25.87	5.27
Oyster Bay	41			23.99	2.90	25.99	8.17	15.60	3.46	22.56	5.98
N of Marker 36	42			17.23	4.61	21.18	10.53	7.75	4.32	15.50	6.19
W of marker 34	43			17.69	3.57	20.79	9.18	7.87	4.26	14.78	4.50
Watson R. Chickee	44			13.76	4.26	18.62	10.75	5.96	4.49	12.89	5.74
Mouth North River	45			11.07	4.09	17.21	10.83	3.95	3.83	10.03	5.44
Midway Keys	46			13.19	3.75	17.76	9.20	5.02	3.25	10.45	4.41
Mouth of Roberts R.	47			7.43	3.82	13.70	10.43	2.03	1.95	5.85	4.38
W of Marker 18	48			11.98	3.11	15.43	7.61	4.58	2.28	8.95	3.69
SE of Marker 12	49			11.97	3.05	15.08	7.28	4.30	1.94	8.08	3.43
Coot Bay	50			14.24	2.82	16.39	6.31	6.16	1.48	9.18	3.20
All Stations		29.55	3.35	21.67	1.82	23.35	3.03	15.06	1.73	19.7033	2.0444

Table 17b: Florida Bay/Whitewater Bay Bottom Salinity (ppt)

Station Name	Station Number	Mean 1992	S.D. 1992	Mean 1993	S.D. 1993	Mean 1994	S.D. 1994	Mean 1995	S.D. 1995	Mean 1996	S.D. 1996
Card Sound Bridge	1	30.39	3.85	30.54	1.92	29.38	3.89	24.14	3.65	28.52	3.28
Middle Bay	2	27.71	6.96	28.95	2.47	26.53	3.31	22.07	3.73	25.94	3.14
Manatee Bay	3	26.17	5.78	27.22	1.82	26.28	3.76	19.79	4.03	23.92	3.75
Barnes Sound	4	29.24	3.88	29.50	2.20	29.24	4.09	21.71	4.08	26.13	3.16
Blackwater Sound	5	30.29	4.59	28.66	2.57	29.89	5.02	21.46	3.75	25.43	3.15
L. Blackwater Snd	6	23.66	9.62	23.41	4.56	21.78	8.36	14.68	5.61	19.51	4.85
Highway Creek	7	12.45	12.76	8.82	8.01	6.57	7.48	2.37	3.49	9.90	8.60
Long Sound	8	19.55	10.64	18.29	5.62	16.82	7.13	8.57	5.48	14.76	6.99
Duck Key	9	31.70	4.16	28.68	2.69	30.96	5.92	18.57	3.31	22.31	3.53
Joe Bay	10	17.23	12.94	11.89	6.96	11.98	9.82	4.36	5.14	9.61	7.50
L. Madeira Bay	11	26.54	7.48	21.26	7.39	25.93	6.09	16.17	5.18	18.44	4.33
Terrapin Bay	12	33.79	6.92	33.96	5.11	34.79	10.19	25.00	4.22	27.94	3.89
Whipray Basin	13	33.97	5.54	38.18	5.76	36.11	7.98	28.48	4.30	31.76	4.14
Garfield Bight	14	29.63	11.12	37.19	5.57	34.02	11.00	26.45	4.73	30.68	4.77
Rankin Lake	15	32.68	6.63	37.75	5.75	34.82	9.34	27.65	5.92	30.85	4.68
Murray Key	16	34.24	2.74	34.83	3.38	35.07	3.93	29.52	2.88	33.80	3.03
Johnson Key Basin	17	35.28	3.15	35.92	3.22	33.52	4.46	29.83	2.05	34.03	3.09
Rabbit Key Basin	18	35.28	2.96	35.63	2.72	34.78	2.55	30.79	2.40	34.10	2.86
Twin Key Basin	19	35.33	2.92	36.61	3.94	34.94	4.06	30.41	1.95	33.99	3.35
Peterson Key	20	37.03	2.35	32.93	10.79	35.52	2.97	31.28	1.93	34.69	3.30
Porpoise Lake	21	36.33	3.82	35.33	4.41	36.24	4.90	28.26	2.68	32.51	3.45
Captain's Key	22	34.29	4.03	31.26	3.28	34.72	5.81	25.81	2.85	28.78	3.93
Park Key	23	29.33	4.92	26.76	3.36	29.17	6.01	19.68	3.92	21.08	3.19
Butternut Key	24	31.37	4.07	28.58	3.89	31.52	6.30	21.76	4.02	23.23	3.48
East Cape	25			34.04	2.67	34.83	2.03	29.67	3.15	33.83	2.75
Oxfoot Bank	26			34.47	1.88	34.72	2.17	31.20	2.79	33.92	2.66
Sprigger Bank	27			34.47	2.30	34.98	1.92	31.91	2.74	34.21	2.18
Old Dan Bank	28			34.91	1.98	34.67	1.83	32.26	2.42	34.71	2.82
First Bay	29			11.95	5.43	18.21	12.86	3.09	3.16	11.91	9.66
Third Bay	30			3.83	3.03	12.67	10.63	0.78	0.69	6.88	5.83
Big Lostman's Bay	31			1.63	1.86	11.16	9.78	0.29	0.30	3.84	4.51
Cabbage Island	32			2.23	1.33	8.08	6.97	0.58	0.38	3.48	2.71
Broad River Bay	33			1.64	0.89	6.98	5.62	0.40	0.27	3.72	3.34
Middle Broad River	34			5.82	4.44	10.28	9.75	1.12	1.42	7.01	8.49
Mouth Broad River	35			16.38	8.48	17.66	11.14	10.88	7.87	16.85	9.16
S. Mouth Harney R.	36			20.63	6.82	23.11	10.18	17.26	4.80	22.28	6.34
Harney River Junction	37			9.07	6.87	13.98	10.51	3.89	2.69	9.48	8.39
Tarpon Bay	38			1.70	1.15	5.66	5.89	0.62	0.53	3.18	3.64
Gunboat Island	39			8.15	7.47	13.33	11.44	3.64	3.43	9.98	8.72
Ponce De Leon Bay	40			27.43	2.59	28.13	6.70	21.16	5.35	26.58	4.86
Oyster Bay	41			24.43	3.05	26.37	7.84	15.43	4.27	22.74	6.11
N of Marker 36	42			17.32	4.61	21.48	10.56	7.85	4.43	15.77	6.30
W of marker 34	43			17.73	3.56	21.03	8.81	8.32	4.47	15.50	4.57
Watson R. Chickee	44			14.15	4.05	19.48	10.66	6.72	4.51	13.43	5.68
Mouth North River	45			11.43	4.05	17.27	10.66	4.12	3.85	10.56	5.18
Midway Keys	46			13.16	3.68	18.08	9.22	4.98	3.31	10.58	4.46
Mouth of Roberts R.	47			8.03	3.62	13.68	9.58	2.38	2.06	6.19	4.45
W of Marker 18	48			12.18	3.07	15.78	7.45	4.65	2.27	9.04	3.69
SE of Marker 12	49			12.16	3.17	15.39	7.15	4.34	1.95	8.24	3.38
Coot Bay	50			14.21	3.04	16.30	6.11	5.94	1.68	9.26	3.17
All Stations		29.73	3.22	21.91	2.11	23.88	3.00	15.64	1.59	20.1008	1.9572

Table 17a: Florida Bay/Whitewater Bay Bottom Salinity (ppt)

Station Name	Station Number	N POR	Min POR	Max POR	Mean POR	S.D. POR	Coef. Var. POR
Card Sound Bridge	1	68	18.90	41.00	29.44	4.71	0.16
Middle Bay	2	68	10.50	38.00	27.04	5.21	0.19
Manatee Bay	3	68	14.20	43.00	25.74	5.64	0.22
Barnes Sound	4	68	16.00	44.00	28.25	5.58	0.20
Blackwater Sound	5	68	16.00	48.00	28.52	6.49	0.23
L. Blackwater Snd	6	68	5.50	47.00	21.52	8.26	0.38
Highway Creek	7	68	0.10	35.60	8.43	9.29	1.10
Long Sound	8	68	2.40	43.00	16.18	8.49	0.53
Duck Key	9	67	13.30	53.00	28.14	8.16	0.29
Joe Bay	10	67	0.20	50.00	11.43	10.37	0.91
L. Madeira Bay	11	67	10.10	53.00	23.59	8.44	0.36
Terrapin Bay	12	67	18.70	55.00	32.40	8.52	0.26
Whipray Basin	13	69	20.50	52.00	34.89	7.15	0.20
Garfield Bight	14	69	14.00	63.00	32.73	9.35	0.29
Rankin Lake	15	69	15.30	55.00	33.61	7.68	0.23
Murray Key	16	69	25.30	50.00	34.03	4.12	0.12
Johnson Key Basin	17	69	22.10	51.00	34.27	4.30	0.13
Rabbit Key Basin	18	69	27.30	43.00	34.64	3.36	0.10
Twin Key Basin	19	68	26.70	44.30	35.00	4.26	0.12
Peterson Key	20	68	28.30	42.80	35.56	3.71	0.10
Porpoise Lake	21	68	24.20	48.30	34.80	5.67	0.16
Captain's Key	22	67	22.30	49.50	32.36	6.58	0.20
Park Key	23	67	13.70	53.00	26.69	7.66	0.29
Butternut Key	24	67	14.30	51.00	28.90	7.72	0.27
East Cape	25	55	25.30	38.40	33.28	3.18	0.10
Oxfoot Bank	26	55	26.80	38.30	33.77	2.62	0.08
Sprigger Bank	27	55	27.70	38.90	34.08	2.44	0.07
Old Dan Bank	28	55	28.60	39.20	34.33	2.40	0.07
First Bay	29	52	0.30	32.30	11.06	9.66	0.87
Third Bay	30	52	0.10	26.90	5.76	7.29	1.27
Big Lostman's Bay	31	52	0.00	27.90	3.97	6.57	1.66
Cabbage Island	32	52	0.10	18.50	3.44	4.48	1.30
Broad River Bay	33	52	0.10	15.80	3.08	3.94	1.28
Middle Broad River	34	52	0.20	27.90	5.81	7.23	1.24
Mouth Broad River	35	52	0.30	30.00	14.81	9.45	0.64
S. Mouth Harney R.	36	52	1.20	31.80	20.65	7.24	0.35
Harney River Junction	37	52	0.60	27.60	8.73	8.07	0.92
Tarpon Bay	38	52	0.10	18.20	2.64	3.78	1.43
Gunboat Island	39	52	0.20	28.90	8.27	8.60	1.04
Ponce De Leon Bay	40	52	9.90	35.00	25.68	5.52	0.21
Oyster Bay	41	52	6.00	34.00	21.86	6.76	0.31
N of Marker 36	42	52	1.20	31.90	15.25	8.15	0.53
W of marker 34	43	52	2.10	30.40	15.23	7.14	0.47
Watson R. Chickee	44	52	0.80	30.80	13.04	7.81	0.60
Mouth North River	45	52	0.60	28.80	10.38	7.76	0.75
Midway Keys	46	52	2.20	28.80	11.35	7.10	0.63
Mouth of Roberts R.	47	52	0.30	29.30	7.21	6.71	0.93
W of Marker 18	48	52	2.90	26.10	10.16	5.89	0.58
SE of Marker 12	49	52	2.70	25.40	9.83	5.77	0.59
Coot Bay	50	52	4.20	26.50	11.33	5.34	0.47
All Stations		50	0.00	63.00	21.06	2.06	0.10

POR = Period of Record as indicated on Table 1.

Table 18a: Florida Bay/Whitewater Bay Surface Dissolved Oxygen (mg/l)

Station Name	Station Number	N POR	Min POR	Max POR	Mean POR	S.D. POR	Coef. Var. POR
Card Sound Bridge	1	71	4.15	8.55	6.19	1.03	0.17
Middle Bay	2	71	4.10	8.20	6.35	0.90	0.14
Manatee Bay	3	71	4.30	8.50	6.70	0.87	0.13
Barnes Sound	4	71	4.70	9.20	6.66	0.97	0.14
Blackwater Sound	5	71	4.50	9.55	6.79	0.93	0.14
L. Blackwater Snd	6	71	4.70	10.50	7.02	0.88	0.12
Highway Creek	7	71	4.70	15.20	7.09	1.35	0.19
Long Sound	8	71	4.90	10.30	6.92	0.92	0.13
Duck Key	9	70	4.70	8.70	6.79	0.87	0.13
Joe Bay	10	70	5.45	10.30	7.20	1.01	0.14
L. Madeira Bay	11	70	3.80	11.70	6.80	1.16	0.17
Terrapin Bay	12	70	3.70	12.30	6.77	1.59	0.24
Whipray Basin	13	70	3.70	9.20	6.12	1.02	0.17
Garfield Bight	14	68	2.80	9.80	5.75	1.45	0.25
Rankin Lake	15	70	3.40	10.50	6.04	1.27	0.21
Murray Key	16	70	3.30	8.40	5.74	0.94	0.16
Johnson Key Basin	17	70	3.45	10.90	5.98	1.28	0.21
Rabbit Key Basin	18	70	3.00	9.70	6.23	1.35	0.22
Twin Key Basin	19	69	4.70	9.70	6.55	1.00	0.15
Peterson Key	20	69	3.95	9.90	6.41	1.07	0.17
Porpoise Lake	21	69	5.10	11.00	7.04	1.05	0.15
Captain's Key	22	67	5.20	10.10	6.71	0.96	0.14
Park Key	23	68	5.20	9.20	6.93	0.82	0.12
Butternut Key	24	69	4.40	9.10	6.85	0.88	0.13
East Cape	25	54	3.30	8.70	6.25	0.95	0.15
Oxfoot Bank	26	54	4.40	8.70	6.32	0.97	0.15
Sprigger Bank	27	54	4.90	10.20	6.71	0.98	0.15
Old Dan Bank	28	54	5.20	9.80	6.92	0.99	0.14
First Bay	29	52	3.50	9.80	6.06	1.33	0.22
Third Bay	30	52	3.80	10.00	6.68	1.29	0.19
Big Lostman's Bay	31	52	2.90	9.10	5.90	1.41	0.24
Cabbage Island	32	52	3.20	10.10	6.27	1.57	0.25
Broad River Bay	33	52	1.70	8.70	5.51	1.42	0.26
Middle Broad River	34	52	1.60	8.80	4.89	1.42	0.29
Mouth Broad River	35	52	2.40	7.80	4.73	1.34	0.28
S. Mouth Harney R.	36	52	1.90	6.80	4.41	1.27	0.29
Harney River Junction	37	52	0.80	7.60	2.96	1.17	0.40
Tarpon Bay	38	52	2.20	6.80	4.57	1.03	0.23
Gunboat Island	39	52	1.40	5.80	3.69	1.05	0.29
Ponce De Leon Bay	40	52	3.20	8.00	5.43	1.22	0.22
Oyster Bay	41	52	3.20	8.60	5.58	1.23	0.22
N of Marker 36	42	52	3.80	9.30	6.67	1.29	0.19
W of marker 34	43	52	4.70	9.80	6.94	1.23	0.18
Watson R. Chickee	44	52	3.90	9.10	6.20	1.26	0.20
Mouth North River	45	52	4.50	9.80	6.69	1.10	0.16
Midway Keys	46	52	5.30	9.70	7.27	1.13	0.16
Mouth of Roberts R.	47	52	4.00	9.10	6.34	1.25	0.20
W of Marker 18	48	52	5.40	10.00	7.36	1.01	0.14
SE of Marker 12	49	52	5.20	10.70	7.33	1.14	0.16
Coot Bay	50	52	2.50	10.10	6.77	1.50	0.22
All Stations		50	0.80	15.20	6.24	0.20	0.03

POR = Period of Record as indicated on Table 1.

Table 18b: Florida Bay/Whitewater Bay Surface Dissolved Oxygen (mg/l)

Station Name	Station Number	Mean 1992	S.D. 1992	Mean 1993	S.D. 1993	Mean 1994	S.D. 1994	Mean 1995	S.D. 1995	Mean 1996	S.D. 1996
Card Sound Bridge	1	5.95	0.87	6.43	1.14	5.86	0.66	6.33	1.03	6.65	0.93
Middle Bay	2	6.43	0.80	6.47	1.22	6.04	0.57	6.50	0.82	6.66	0.75
Manatee Bay	3	6.67	0.76	6.63	1.16	6.36	0.71	6.90	0.84	7.10	0.65
Barnes Sound	4	6.66	0.80	7.00	1.22	6.15	0.85	6.88	0.91	6.88	0.63
Blackwater Sound	5	6.67	0.72	6.98	1.34	6.35	0.66	7.05	0.70	7.18	0.61
L. Blackwater Snd	6	6.95	0.68	7.29	1.45	6.70	0.70	7.21	0.78	7.24	0.52
Highway Creek	7	6.80	0.72	7.23	1.55	7.39	2.43	7.28	0.94	7.02	0.75
Long Sound	8	6.82	0.74	7.30	1.41	6.60	0.71	7.08	0.85	7.03	0.75
Duck Key	9	6.57	0.76	6.91	1.21	6.47	0.50	7.18	0.74	7.18	0.74
Joe Bay	10	6.72	0.69	7.88	1.40	6.82	0.69	7.53	0.98	7.38	0.75
L. Madeira Bay	11	6.65	0.88	7.40	1.99	6.31	0.73	7.13	0.98	6.77	0.76
Terrapin Bay	12	7.06	0.94	7.88	2.45	6.63	1.14	6.25	1.23	6.58	1.10
Whipray Basin	13	5.90	0.93	6.19	1.10	6.26	0.79	6.24	1.16	6.46	0.97
Garfield Bight	14	5.66	1.55	4.84	1.01	5.66	1.01	6.15	1.43	7.01	1.18
Rankin Lake	15	5.56	1.28	5.79	1.13	6.01	0.87	6.34	1.50	6.68	0.97
Murray Key	16	5.72	1.23	5.48	0.77	5.34	0.85	6.10	0.95	6.12	0.88
Johnson Key Basin	17	5.88	1.22	5.52	0.73	6.00	0.86	6.43	1.31	6.31	1.00
Rabbit Key Basin	18	6.98	1.23	5.89	1.26	5.94	1.46	6.29	1.45	6.35	1.26
Twin Key Basin	19	6.69	1.14	6.51	0.73	6.72	0.95	6.73	1.30	6.68	0.84
Peterson Key	20	6.08	2.24	6.33	0.76	6.62	0.61	6.56	1.48	6.58	1.03
Porpoise Lake	21	7.29	2.63	6.65	0.81	7.10	0.62	7.13	1.27	6.73	0.90
Captain's Key	22	6.32	2.23	6.57	0.66	6.67	0.62	7.12	1.41	6.83	0.95
Park Key	23	6.11	1.99	7.37	1.17	6.63	0.46	7.29	0.63	7.18	0.88
Butternut Key	24	6.21	2.08	7.12	1.39	6.55	0.50	7.29	0.62	6.95	0.77
East Cape	25			5.94	0.79	6.11	0.60	6.28	1.29	6.42	0.82
Oxfoot Bank	26			5.95	0.91	6.12	0.69	6.65	1.10	6.40	1.00
Sprigger Bank	27			6.65	0.66	6.45	0.51	6.53	1.15	6.93	0.98
Old Dan Bank	28			6.76	0.65	6.90	0.59	6.85	1.31	6.93	1.03
First Bay	29			5.77	1.17	5.36	1.11	6.43	1.08	6.78	1.72
Third Bay	30			6.68	1.21	5.97	1.35	6.76	0.97	7.41	1.51
Big Lostman's Bay	31			6.13	0.99	5.41	1.47	5.28	1.30	6.95	1.32
Cabbage Island	32			6.23	1.18	5.63	1.72	5.88	1.18	7.48	1.58
Broad River Bay	33			5.38	1.04	5.02	1.49	5.38	1.14	6.56	1.38
Middle Broad River	34			4.57	1.51	4.33	1.13	5.08	1.16	5.53	1.60
Mouth Broad River	35			4.60	1.22	4.10	1.18	5.17	1.11	5.09	1.69
S. Mouth Harney R.	36			4.27	1.42	4.13	1.15	4.37	1.12	5.01	1.35
Harney River Junction	37			3.05	1.03	2.50	0.80	3.58	1.53	2.58	1.04
Tarpon Bay	38			4.54	0.73	4.38	1.22	4.46	0.88	5.08	1.11
Gunboat Island	39			3.44	1.29	3.37	0.76	4.04	1.02	3.83	1.08
Ponce De Leon Bay	40			5.39	1.27	5.17	1.37	5.51	1.24	5.77	1.27
Oyster Bay	41			5.36	1.09	5.02	1.31	5.85	1.11	6.11	1.32
N of Marker 36	42			6.66	1.19	5.73	1.36	6.88	1.05	7.44	1.18
W of marker 34	43			6.78	1.18	6.12	1.16	7.44	1.14	7.35	1.19
Watson R. Chickee	44			5.75	1.05	5.44	1.24	6.65	1.09	6.93	1.23
Mouth North River	45			6.61	0.76	6.03	1.11	6.91	0.99	7.17	1.30
Midway Keys	46			7.14	0.95	6.53	0.99	7.53	1.05	7.88	1.20
Mouth of Roberts R.	47			6.08	1.12	5.66	1.12	6.61	1.16	6.92	1.41
W of Marker 18	48			7.33	0.81	6.78	0.92	7.55	1.05	7.78	1.17
SE of Marker 12	49			7.33	0.78	6.54	1.09	7.48	1.04	7.98	1.35
Coot Bay	50			6.93	0.96	5.83	1.71	6.83	1.47	7.63	1.39
All Stations		6.43	0.59	6.22	0.34	5.88	0.39	6.42	0.23	6.6292	0.2937

Table 19a: Florida Bay/Whitewater Bay Bottom Dissolved Oxygen (mg/l)

Station Name	Station Number	N POR	Min POR	Max POR	Mean POR	S.D. POR	Coef. Var. POR
Card Sound Bridge	1	71	3.80	9.40	6.20	1.13	0.18
Middle Bay	2	71	4.00	9.20	6.34	1.00	0.16
Manatee Bay	3	71	3.95	8.60	6.61	0.99	0.15
Barnes Sound	4	71	3.40	9.35	6.57	1.07	0.16
Blackwater Sound	5	71	4.50	9.50	6.70	1.00	0.15
L. Blackwater Snd	6	71	3.20	10.60	6.87	1.18	0.17
Highway Creek	7	71	4.30	15.00	7.00	1.39	0.20
Long Sound	8	71	3.50	10.20	6.78	1.06	0.16
Duck Key	9	70	4.50	8.90	6.83	0.96	0.14
Joe Bay	10	70	1.80	9.90	6.92	1.38	0.20
L. Madeira Bay	11	70	3.80	11.60	6.83	1.26	0.18
Terrapin Bay	12	70	4.00	12.20	6.85	1.61	0.23
Whipray Basin	13	70	3.60	9.30	6.06	1.06	0.17
Garfield Bight	14	68	1.50	9.90	5.66	1.52	0.27
Rankin Lake	15	70	3.25	10.50	6.02	1.28	0.21
Murray Key	16	70	3.30	8.40	5.70	0.96	0.17
Johnson Key Basin	17	70	3.55	11.10	5.99	1.29	0.22
Rabbit Key Basin	18	70	3.00	9.80	6.27	1.34	0.21
Twin Key Basin	19	69	4.70	9.60	6.59	0.96	0.15
Peterson Key	20	69	3.60	9.90	6.49	1.08	0.17
Porpoise Lake	21	69	5.30	11.40	7.26	1.09	0.15
Captain's Key	22	67	5.10	10.60	6.75	0.98	0.15
Park Key	23	68	3.80	9.30	6.99	0.92	0.13
Butternut Key	24	69	4.40	9.30	6.93	0.94	0.14
East Cape	25	54	3.20	8.80	6.23	0.96	0.15
Oxfoot Bank	26	54	3.90	8.80	6.24	0.98	0.16
Sprigger Bank	27	54	4.70	10.50	6.75	1.01	0.15
Old Dan Bank	28	54	5.20	9.80	6.95	0.99	0.14
First Bay	29	52	3.50	9.90	6.09	1.32	0.22
Third Bay	30	52	4.00	10.20	6.62	1.36	0.21
Big Lostman's Bay	31	52	2.80	9.00	5.78	1.42	0.25
Cabbage Island	32	52	3.10	10.20	6.14	1.65	0.27
Broad River Bay	33	52	1.90	8.60	5.46	1.49	0.27
Middle Broad River	34	52	1.70	8.60	4.89	1.42	0.29
Mouth Broad River	35	52	0.10	7.80	4.49	1.46	0.33
S. Mouth Harney R.	36	52	2.40	7.70	4.62	1.28	0.28
Harney River Junction	37	52	0.70	7.40	2.83	1.16	0.41
Tarpon Bay	38	52	2.20	6.50	4.39	1.09	0.25
Gunboat Island	39	52	1.40	6.00	3.62	1.06	0.29
Ponce De Leon Bay	40	52	3.20	8.00	5.36	1.20	0.22
Oyster Bay	41	52	2.90	8.60	5.52	1.28	0.23
N of Marker 36	42	52	3.80	9.30	6.67	1.37	0.21
W of marker 34	43	52	4.70	9.80	6.86	1.30	0.19
Watson R. Chickee	44	52	4.00	9.20	6.04	1.25	0.21
Mouth North River	45	52	4.70	9.80	6.72	1.11	0.17
Midway Keys	46	52	5.00	9.90	7.33	1.14	0.16
Mouth of Roberts R.	47	52	3.90	9.20	6.26	1.31	0.21
W of Marker 18	48	52	5.50	10.20	7.38	1.05	0.14
SE of Marker 12	49	52	4.80	10.70	7.23	1.26	0.17
Coot Bay	50	52	2.20	10.20	6.50	1.70	0.26
All Stations		50	0.10	15.00	6.20	0.20	0.03

POR = Period of Record as indicated on Table 1.

Table 20b: Florida Bay/Whitewater Bay Surface Temperature (oC)

Station Name	Station Number	Mean 1992	S.D. 1992	Mean 1993	S.D. 1993	Mean 1994	S.D. 1994	Mean 1995	S.D. 1995	Mean 1996	S.D. 1996
Card Sound Bridge	1	25.38	3.87	25.18	4.04	26.08	3.06	25.73	4.26	25.63	3.74
Middle Bay	2	25.37	3.77	24.82	4.19	25.91	3.18	25.58	4.34	25.55	3.68
Manatee Bay	3	25.36	3.93	25.08	4.22	26.15	3.16	25.63	4.31	25.67	3.65
Barnes Sound	4	25.46	3.91	25.29	4.09	26.10	3.10	25.64	4.25	25.65	3.75
Blackwater Sound	5	25.62	4.00	25.28	4.19	26.22	3.11	25.72	4.22	25.65	3.90
L. Blackwater Snd	6	25.37	4.07	24.95	4.31	26.04	3.17	25.42	4.28	25.21	4.21
Highway Creek	7	25.45	4.14	24.81	4.91	26.18	3.46	25.63	4.49	25.52	4.52
Long Sound	8	25.63	4.04	25.26	4.34	26.37	3.19	25.90	4.38	25.66	4.30
Duck Key	9	25.51	4.07	25.05	4.38	26.45	3.40	25.58	4.47	25.48	4.34
Joe Bay	10	26.02	4.08	25.31	4.74	26.80	3.64	26.06	4.53	25.79	4.34
L. Madeira Bay	11	26.26	4.10	25.35	4.78	26.85	3.61	25.05	4.91	25.62	4.18
Terrapin Bay	12	26.97	4.14	25.84	4.67	27.14	3.89	26.48	5.20	26.43	3.74
Whipray Basin	13	25.48	4.33	25.03	4.50	25.92	3.33	26.03	5.39	25.80	3.94
Garfield Bight	14	24.76	4.62	24.87	4.60	25.69	3.44	25.78	5.38	25.88	4.10
Rankin Lake	15	25.53	4.55	25.03	4.64	25.65	3.30	25.84	5.49	25.73	3.99
Murray Key	16	25.43	3.89	25.11	4.22	26.01	3.53	25.96	4.62	25.40	4.19
Johnson Key Basin	17	25.67	4.42	25.48	4.49	26.31	3.39	25.84	4.58	25.88	4.05
Rabbit Key Basin	18	25.89	4.21	25.63	4.36	26.28	3.43	25.92	4.56	25.83	4.09
Twin Key Basin	19	26.43	4.28	26.49	4.16	26.73	3.42	26.59	4.55	26.48	3.80
Peterson Key	20	26.43	3.99	26.30	4.09	26.62	3.28	26.64	4.44	26.26	3.82
Porpoise Lake	21	26.46	4.18	26.58	4.33	26.92	3.44	26.57	4.65	26.43	3.71
Captain's Key	22	26.31	4.17	25.76	3.96	26.78	3.34	26.18	4.17	26.11	3.68
Park Key	23	26.20	4.40	25.54	4.49	26.66	3.53	25.12	4.60	25.63	4.45
Butternut Key	24	26.21	4.28	25.41	4.63	26.59	3.62	25.37	4.73	25.50	4.58
East Cape	25			25.23	4.30	25.84	3.55	26.23	5.07	25.32	4.45
Oxfoot Bank	26			25.39	4.30	25.85	3.39	25.96	4.88	25.33	4.28
Sprigger Bank	27			25.63	4.16	26.23	3.32	26.18	4.68	25.68	4.12
Old Dan Bank	28			25.94	4.17	26.57	3.34	26.40	4.46	25.98	4.07
First Bay	29			25.97	3.81	26.55	4.05	25.57	4.31	24.73	5.75
Third Bay	30			25.96	3.93	26.91	3.99	25.54	4.45	24.88	5.66
Big Lostman's Bay	31			26.22	3.88	26.85	3.92	24.95	4.35	24.91	5.97
Cabbage Island	32			26.28	3.86	27.03	3.88	25.22	4.32	25.41	5.84
Broad River Bay	33			26.34	3.68	26.90	3.64	25.25	4.34	25.19	5.59
Middle Broad River	34			24.57	6.02	26.78	3.66	25.40	4.45	25.01	5.49
Mouth Broad River	35			26.50	3.54	26.83	3.60	25.81	4.50	25.29	5.39
S. Mouth Harney R.	36			26.33	3.37	27.02	3.60	25.72	4.31	25.33	5.08
Harney River Junction	37			26.13	3.45	26.58	3.29	25.26	4.16	25.03	4.91
Tarpon Bay	38			26.66	3.81	27.06	3.48	25.41	4.40	25.28	5.38
Gunboat Island	39			26.43	3.61	26.79	3.52	25.68	4.21	25.38	5.20
Ponce De Leon Bay	40			26.29	3.77	25.90	4.15	25.58	4.44	24.72	5.35
Oyster Bay	41			26.28	3.50	26.25	4.33	25.75	4.53	24.93	5.11
N of Marker 36	42			26.08	3.58	26.18	4.50	25.53	4.36	24.77	5.16
W of marker 34	43			26.12	3.44	26.25	4.47	25.56	4.48	24.91	5.12
Watson R. Chickee	44			26.63	3.48	26.63	4.60	25.83	4.43	25.18	5.38
Mouth North River	45			26.36	3.53	26.54	4.54	25.73	4.66	24.89	5.58
Midway Keys	46			26.21	3.40	26.49	4.53	25.71	4.57	24.91	5.23
Mouth of Roberts R.	47			26.58	3.53	26.42	4.42	26.00	4.43	25.31	5.31
W of Marker 18	48			26.26	3.50	26.63	4.53	25.72	4.56	25.08	5.48
SE of Marker 12	49			26.31	3.59	26.62	4.41	25.93	4.48	25.46	5.48
Coot Bay	50			26.73	3.59	26.93	4.29	26.33	4.49	25.90	5.37
All Stations		25.80	0.21	25.78	0.51	26.46	0.46	25.77	0.31	25.4702	0.7250

Table 21a: Florida Bay/Whitewater Bay Bottom Temperature (oC)

Station Name	Station Number	N POR	Min POR	Max POR	Mean POR	S.D. POR	Coef. Var. POR
Card Sound Bridge	1	71	17.90	32.00	25.77	3.73	0.14
Middle Bay	2	71	17.90	33.90	25.83	3.84	0.15
Manatee Bay	3	71	17.90	33.30	25.83	3.90	0.15
Barnes Sound	4	71	17.70	32.20	25.84	3.74	0.14
Blackwater Sound	5	71	17.90	33.30	25.96	3.83	0.15
L. Blackwater Snd	6	71	17.40	33.90	25.78	4.00	0.16
Highway Creek	7	71	17.00	32.30	25.94	4.14	0.16
Long Sound	8	71	17.20	32.90	25.93	3.87	0.15
Duck Key	9	70	16.70	33.60	25.80	4.08	0.16
Joe Bay	10	70	17.00	32.80	26.19	4.03	0.15
L. Madeira Bay	11	70	17.00	33.10	26.11	4.05	0.16
Terrapin Bay	12	70	16.60	34.20	26.76	4.12	0.15
Whipray Basin	13	71	17.50	35.10	25.89	4.10	0.16
Garfield Bight	14	70	16.20	35.30	25.54	4.26	0.17
Rankin Lake	15	71	17.40	34.80	25.84	4.19	0.16
Murray Key	16	71	18.20	32.10	25.75	3.88	0.15
Johnson Key Basin	17	71	18.00	31.70	26.04	3.95	0.15
Rabbit Key Basin	18	71	18.20	32.10	26.13	3.92	0.15
Twin Key Basin	19	70	18.20	33.10	26.58	3.88	0.15
Peterson Key	20	71	18.60	32.60	26.48	3.74	0.14
Porpoise Lake	21	71	17.90	32.50	26.63	3.94	0.15
Captain's Key	22	69	18.70	32.20	26.42	3.75	0.14
Park Key	23	69	16.60	32.00	26.08	4.11	0.16
Butternut Key	24	70	16.00	32.20	26.00	4.23	0.16
East Cape	25	55	17.60	34.70	25.77	4.17	0.16
Oxfoot Bank	26	55	17.90	34.10	25.67	4.07	0.16
Sprigger Bank	27	55	18.20	33.90	26.07	3.94	0.15
Old Dan Bank	28	55	18.20	32.90	26.35	3.91	0.15
First Bay	29	52	13.60	31.90	25.68	4.34	0.17
Third Bay	30	52	14.00	32.60	25.64	4.27	0.17
Big Lostman's Bay	31	52	13.60	32.10	25.60	4.38	0.17
Cabbage Island	32	52	14.90	31.70	25.74	4.17	0.16
Broad River Bay	33	52	14.90	31.70	25.69	4.10	0.16
Middle Broad River	34	52	15.10	31.60	25.82	4.19	0.16
Mouth Broad River	35	52	16.00	32.00	25.86	4.07	0.16
S. Mouth Harney R.	36	52	15.50	31.80	25.97	4.01	0.15
Harney River Junction	37	52	16.00	31.00	25.64	3.83	0.15
Tarpon Bay	38	52	15.80	31.60	25.91	4.05	0.16
Gunboat Island	39	52	16.20	31.70	26.06	4.01	0.15
Ponce De Leon Bay	40	52	15.20	31.20	25.76	4.22	0.16
Oyster Bay	41	52	15.70	31.80	25.68	4.24	0.17
N of Marker 36	42	52	14.40	31.80	25.53	4.25	0.17
W of marker 34	43	52	14.90	31.70	25.51	4.24	0.17
Watson R. Chickee	44	52	14.00	32.00	25.86	4.28	0.17
Mouth North River	45	52	11.80	32.30	25.63	4.49	0.18
Midway Keys	46	52	14.60	32.00	25.59	4.24	0.17
Mouth of Roberts R.	47	52	14.00	31.70	25.69	4.30	0.17
W of Marker 18	48	52	13.90	31.20	25.51	4.26	0.17
SE of Marker 12	49	52	14.80	31.10	25.68	4.21	0.16
Coot Bay	50	52	14.50	31.80	26.15	4.21	0.16
All Stations		50	11.80	35.30	25.90	0.18	0.01

POR = Period of Record as indicated on Table 1.

Table 21b: Florida Bay/Whitewater Bay Bottom Temperature (oC)

Station Name	Station Number	Mean 1992	S.D. 1992	Mean 1993	S.D. 1993	Mean 1994	S.D. 1994	Mean 1995	S.D. 1995	Mean 1996	S.D. 1996
Card Sound Bridge	1	25.36	3.90	25.18	4.03	26.09	3.08	25.74	4.35	25.55	3.86
Middle Bay	2	25.36	3.73	24.92	4.23	26.13	3.25	25.98	4.48	25.70	3.98
Manatee Bay	3	25.38	3.93	25.09	4.16	26.33	3.28	25.92	4.57	25.64	3.93
Barnes Sound	4	25.46	3.91	25.27	4.07	26.08	3.12	25.82	4.35	25.68	3.82
Blackwater Sound	5	25.63	3.97	25.21	4.12	26.32	3.14	26.09	4.55	25.67	3.89
L. Blackwater Snd	6	25.40	4.17	25.08	4.39	26.26	3.20	25.73	4.52	25.47	4.25
Highway Creek	7	25.77	4.34	25.06	4.87	26.56	3.67	25.65	4.45	25.70	4.38
Long Sound	8	25.58	4.03	25.47	4.40	26.49	3.20	25.72	4.33	25.56	4.15
Duck Key	9	25.48	4.09	24.99	4.35	26.46	3.42	25.73	4.63	25.54	4.39
Joe Bay	10	26.17	4.26	25.53	4.56	26.74	3.63	25.89	4.39	25.77	4.30
L. Madeira Bay	11	26.30	4.18	25.43	4.65	26.74	3.47	25.57	4.49	25.50	4.09
Terrapin Bay	12	26.88	4.20	25.87	4.84	27.03	3.91	26.53	5.18	26.42	3.72
Whipray Basin	13	25.48	4.33	24.93	4.45	26.17	3.47	25.95	5.43	25.63	3.79
Garfield Bight	14	24.78	4.64	24.97	4.79	25.68	3.42	25.83	5.44	25.79	4.09
Rankin Lake	15	25.51	4.54	24.93	4.63	25.73	3.39	25.89	5.40	25.63	4.02
Murray Key	16	25.46	3.89	25.11	4.24	25.86	3.48	25.93	4.67	25.36	4.23
Johnson Key Basin	17	25.65	4.42	25.37	4.35	26.23	3.40	25.75	4.61	25.83	4.08
Rabbit Key Basin	18	25.88	4.19	25.57	4.34	26.24	3.41	25.91	4.54	25.79	4.09
Twin Key Basin	19	26.24	4.16	26.17	4.12	26.59	3.44	26.35	4.65	26.30	3.99
Peterson Key	20	26.31	3.93	26.01	3.99	26.62	3.27	26.39	4.40	26.13	4.04
Porpoise Lake	21	26.33	4.18	26.23	4.21	26.95	3.47	26.37	4.72	26.27	3.98
Captain's Key	22	26.08	4.06	22.93	7.78	26.78	3.36	26.10	4.27	26.01	3.90
Park Key	23	25.98	4.40	25.54	4.50	26.64	3.53	25.13	4.61	25.44	4.36
Butternut Key	24	26.01	4.47	25.39	4.64	26.55	3.61	25.33	4.85	25.33	4.53
East Cape	25			25.17	4.29	25.82	3.53	26.21	5.05	25.27	4.46
Oxfoot Bank	26			25.17	4.21	25.81	3.38	25.88	4.87	25.27	4.28
Sprigger Bank	27			25.61	4.13	26.22	3.32	26.17	4.70	25.65	4.15
Old Dan Bank	28			25.92	4.15	26.60	3.36	26.38	4.44	25.96	4.10
First Bay	29			25.91	3.78	26.50	4.06	25.56	4.31	24.75	5.79
Third Bay	30			25.83	3.88	26.53	3.91	25.42	4.28	24.79	5.65
Big Lostman's Bay	31			25.86	3.76	26.80	3.99	24.94	4.37	24.84	5.92
Cabbage Island	32			25.93	3.65	26.83	3.76	25.07	4.20	25.12	5.59
Broad River Bay	33			25.91	3.55	26.76	3.53	25.03	4.32	25.05	5.47
Middle Broad River	34			26.18	3.68	26.74	3.67	25.37	4.43	24.97	5.48
Mouth Broad River	35			26.08	3.35	26.80	3.60	25.50	4.43	25.08	5.35
S. Mouth Harney R.	36			26.18	3.24	26.95	3.63	25.65	4.24	25.07	5.28
Harney River Junction	37			25.98	3.44	26.47	3.22	25.13	4.16	24.93	4.89
Tarpon Bay	38			26.42	3.66	26.94	3.41	25.18	4.29	25.03	5.24
Gunboat Island	39			26.37	3.59	27.01	3.46	25.56	4.24	25.32	5.21
Ponce De Leon Bay	40			26.23	3.72	26.58	3.80	25.61	4.41	24.60	5.41
Oyster Bay	41			26.31	3.53	26.24	4.31	25.73	4.54	24.85	5.14
N of Marker 36	42			26.07	3.57	26.15	4.50	25.56	4.34	24.77	5.15
W of marker 34	43			26.06	3.43	26.20	4.43	25.55	4.46	24.75	5.14
Watson R. Chickee	44			26.53	3.46	26.48	4.47	25.83	4.41	25.09	5.30
Mouth North River	45			26.28	3.49	26.41	4.52	25.68	4.64	24.60	5.71
Midway Keys	46			26.15	3.41	26.33	4.38	25.63	4.49	24.77	5.13
Mouth of Roberts R.	47			26.44	3.47	25.72	4.77	25.85	4.23	25.18	5.27
W of Marker 18	48			26.10	3.42	26.33	4.37	25.45	4.29	24.63	5.37
SE of Marker 12	49			26.23	3.51	26.49	4.35	25.62	4.18	24.85	5.25
Coot Bay	50			26.62	3.49	26.90	4.28	26.04	4.29	25.58	5.28
All Stations		25.77	0.23	25.67	0.70	26.44	0.44	25.74	0.31	25.37	0.67

Table 1: Ten Thousand Islands Station Summary

Station Name	Station Number	Latitude	Longitude	Period	of	Record	Surveys
Chokoloskee	51	25 48.450	81 20.970	Sept 94	-	Dec 96	43-70
Rabbit Key Pass	52	25 46.200	81 23.000	Sept 94	-	Dec 96	43-70
Lopez Bay	53	25 47.050	81 19.930	Sept 94	-	Dec 96	43-70
Lopez River	54	25 47.130	81 18.550	Sept 94	-	Dec 96	43-70
Sunday Bay	55	25 47.760	81 16.800	Sept 94	-	Dec 96	43-70
Huston Bay	56	25 45.180	81 15.330	Sept 94	-	Dec 96	43-70
Upper Chatham River	57	25 43.050	81 13.830	Sept 94	-	Dec 96	43-70
Middle Chatham River	58	25 42.470	81 14.630	Sept 94	-	Dec 96	43-70
Gun Rock Point	59	25 41.500	81 17.920	Sept 94	-	Dec 96	43-70
Oyster Bay	60	25 46.280	81 15.880	Oct 94	-	Dec 96	43-70
Chevelier Bay	61	25 42.750	81 12.420	Sept 94	-	Dec 96	43-70
Alligator Bay	62	25 40.210	81 10.120	Sept 94	-	Dec 96	43-70
Lostman's Five Bay	63	25 38.000	81 08.700	Sept 94	-	Dec 96	43-70
Barron River	64	25 51.196	81 23.602	Sept 94	-	Dec 96	43-70
Indian Key Pass	65	25 49.631	81 26.465	Sept 94	-	Dec 96	43-70
Indian Key	66	25 48.290	81 27.750	Sept 94	-	Dec 96	43-70
West Pass	67	25 49.820	81 30.170	Sept 94	-	Dec 96	43-70
Panther Key	68	25 50.960	81 32.530	Sept 94	-	Dec 96	43-70
Faka Union Pass	69	25 52.450	81 30.960	Sept 94	-	Dec 96	43-70
Faka Union River	70	25 54.000	81 30.960	Sept 94	-	Dec 96	43-70
White Horse Key	71	25 52.007	81 34.489	Sept 94	-	Dec 96	43-70
Dismal Key	72	25 53.668	81 33.532	Sept 94	-	Dec 96	43-70
Gullivan Bay	73	25 52.920	81 36.380	Sept 94	-	Dec 96	43-70
Shell Key	74	25 54.670	81 36.920	Sept 94	-	Dec 96	43-70
Blackwater River	75	25 55.788	81 36.019	Sept 94	-	Dec 96	43-70

Table 2a: Ten Thousand Islands Nitrate+Nitrite (mg/l of N)

Station Name	Station Number	N POR	Min POR	Max POR	Mean POR	S.D. POR	Coef. Var. POR
Chokoloskee	51	28	0.0016	0.0643	0.0157	0.0145	0.9214
Rabbit Key Pass	52	28	0.0006	0.0701	0.0126	0.0191	1.5112
Lopez Bay	53	28	0.0012	0.0716	0.0224	0.0170	0.7594
Lopez River	54	28	0.0010	0.0438	0.0177	0.0114	0.6413
Sunday Bay	55	28	0.0008	0.0554	0.0108	0.0128	1.1818
Huston Bay	56	28	0.0005	0.0663	0.0113	0.0141	1.2461
Upper Chatham R.	57	28	0.0020	0.0448	0.0188	0.0120	0.6402
Middle Chatham R.	58	28	0.0024	0.0603	0.0215	0.0166	0.7720
Gun Rock Pt.	59	28	0.0006	0.0924	0.0176	0.0213	1.2137
Oyster Bay	60	27	0.0009	0.0622	0.0127	0.0165	1.3044
Chevelier Bay	61	27	0.0015	0.0453	0.0126	0.0117	0.9310
Alligator Bay	62	27	0.0011	0.0691	0.0129	0.0185	1.4361
Lostman's Five Bay	63	27	0.0018	0.0295	0.0088	0.0072	0.8226
Barron River	64	28	0.0045	0.0687	0.0194	0.0128	0.6577
Indian Key Pass	65	28	0.0017	0.0666	0.0181	0.0143	0.7867
Indian Key	66	28	0.0004	0.0523	0.0112	0.0115	1.0247
West Pass	67	28	0.0005	0.0323	0.0109	0.0091	0.8346
Panther Key	68	28	0.0002	0.0601	0.0101	0.0123	1.2131
Faka Union Pass	69	28	0.0007	0.0691	0.0214	0.0171	0.7983
Faka Union River	70	28	0.0048	0.0528	0.0191	0.0127	0.6660
White Horse Key	71	28	0.0006	0.0490	0.0111	0.0125	1.1194
Dismal Key	72	28	0.0005	0.0871	0.0215	0.0196	0.9149
Gullivan Bay	73	28	0.0007	0.0446	0.0090	0.0099	1.1050
Shell Key	74	28	0.0011	0.0947	0.0176	0.0220	1.2465
Blackwater River	75	28	0.0006	0.0797	0.0207	0.0209	1.0077
All Stations		25	0.0002	0.0947	0.0154	0.0040	0.2582

POR = Period of Record as indicated on Table 1.

Table 2b: Ten Thousand Islands Nitrate+Nitrite (mg/l of N)

Station Name	Station Number	Mean 1995	S.D. 1995	Mean 1996	S.D. 1996
Chokoloskee	51	0.0119	0.0070	0.0114	0.0070
Rabbit Key Pass	52	0.0114	0.0151	0.0044	0.0035
Lopez Bay	53	0.0188	0.0115	0.0190	0.0129
Lopez River	54	0.0147	0.0128	0.0207	0.0112
Sunday Bay	55	0.0077	0.0088	0.0159	0.0166
Huston Bay	56	0.0065	0.0068	0.0161	0.0190
Upper Chatham R.	57	0.0156	0.0106	0.0201	0.0140
Middle Chatham R.	58	0.0157	0.0149	0.0226	0.0160
Gun Rock Pt.	59	0.0134	0.0139	0.0095	0.0095
Oyster Bay	60	0.0075	0.0075	0.0193	0.0223
Chevelier Bay	61	0.0117	0.0130	0.0153	0.0121
Alligator Bay	62	0.0171	0.0221	0.0039	0.0034
Lostman's Five Bay	63	0.0081	0.0069	0.0104	0.0086
Barron River	64	0.0178	0.0099	0.0203	0.0169
Indian Key Pass	65	0.0158	0.0075	0.0122	0.0069
Indian Key	66	0.0094	0.0047	0.0073	0.0073
West Pass	67	0.0131	0.0071	0.0062	0.0058
Panther Key	68	0.0079	0.0056	0.0057	0.0060
Faka Union Pass	69	0.0254	0.0121	0.0096	0.0073
Faka Union River	70	0.0209	0.0085	0.0109	0.0063
White Horse Key	71	0.0109	0.0082	0.0057	0.0070
Dismal Key	72	0.0242	0.0129	0.0092	0.0073
Gullivan Bay	73	0.0081	0.0063	0.0062	0.0067
Shell Key	74	0.0224	0.0260	0.0077	0.0064
Blackwater River	75	0.0216	0.0228	0.0119	0.0113
All Stations		0.0143	0.0056	0.0121	0.0050

Table 3a: Ten Thousand Islands Nitrate (mg/l of N)

Station Name	Station Number	N POR	Min POR	Max POR	Mean POR	S.D. POR	Coef. Var. POR
Chokoloskee	51	28	0.0003	0.0585	0.0123	0.0127	1.0296
Rabbit Key Pass	52	28	0.0000	0.0621	0.0101	0.0164	1.6210
Lopez Bay	53	28	0.0000	0.0663	0.0188	0.0155	0.8270
Lopez River	54	28	0.0000	0.0403	0.0145	0.0103	0.7159
Sunday Bay	55	28	0.0000	0.0478	0.0078	0.0106	1.3553
Huston Bay	56	28	0.0000	0.0305	0.0077	0.0086	1.1262
Upper Chatham R.	57	28	0.0006	0.0397	0.0156	0.0110	0.7044
Middle Chatham R.	58	28	0.0000	0.0513	0.0181	0.0147	0.8101
Gun Rock Pt.	59	28	0.0000	0.0788	0.0148	0.0190	1.2791
Oyster Bay	60	27	0.0000	0.0532	0.0090	0.0125	1.3856
Chevelier Bay	61	27	0.0000	0.0420	0.0097	0.0108	1.1139
Alligator Bay	62	27	0.0000	0.0661	0.0104	0.0171	1.6525
Lostman's Five Bay	63	27	0.0000	0.0268	0.0068	0.0070	1.0260
Barron River	64	28	0.0034	0.0641	0.0163	0.0120	0.7367
Indian Key Pass	65	28	0.0012	0.0576	0.0145	0.0123	0.8460
Indian Key	66	28	0.0000	0.0435	0.0084	0.0095	1.1432
West Pass	67	28	0.0000	0.0243	0.0084	0.0074	0.8876
Panther Key	68	28	0.0000	0.0486	0.0077	0.0103	1.3449
Faka Union Pass	69	28	0.0000	0.0574	0.0178	0.0150	0.8448
Faka Union River	70	28	0.0031	0.0454	0.0160	0.0117	0.7321
White Horse Key	71	28	0.0000	0.0368	0.0085	0.0104	1.2289
Dismal Key	72	28	0.0000	0.0740	0.0178	0.0172	0.9678
Gullivan Bay	73	28	0.0000	0.0315	0.0063	0.0077	1.2298
Shell Key	74	28	0.0004	0.0801	0.0136	0.0183	1.3425
Blackwater River	75	28	0.0000	0.0668	0.0162	0.0177	1.0958
All Stations		25	0.0000	0.0801	0.0123	0.0036	0.2915

POR = Period of Record as indicated on Table 1.

Table 3b: Ten Thousand Islands Nitrate (mg/l of N)

Station Name	Station Number	Mean 1995	S.D. 1995	Mean 1996	S.D. 1996
Chokoloskee	51	0.0091	0.0065	0.0086	0.0059
Rabbit Key Pass	52	0.0091	0.0136	0.0033	0.0032
Lopez Bay	53	0.0158	0.0109	0.0155	0.0115
Lopez River	54	0.0120	0.0118	0.0168	0.0104
Sunday Bay	55	0.0059	0.0082	0.0112	0.0135
Huston Bay	56	0.0046	0.0060	0.0107	0.0107
Upper Chatham R.	57	0.0128	0.0099	0.0171	0.0130
Middle Chatham R.	58	0.0127	0.0134	0.0195	0.0147
Gun Rock Pt.	59	0.0108	0.0125	0.0078	0.0086
Oyster Bay	60	0.0053	0.0069	0.0139	0.0165
Chevelier Bay	61	0.0092	0.0127	0.0125	0.0105
Alligator Bay	62	0.0147	0.0217	0.0024	0.0037
Lostman's Five Bay	63	0.0065	0.0068	0.0085	0.0083
Barron River	64	0.0150	0.0090	0.0173	0.0162
Indian Key Pass	65	0.0127	0.0065	0.0095	0.0062
Indian Key	66	0.0069	0.0046	0.0054	0.0064
West Pass	67	0.0104	0.0062	0.0045	0.0050
Panther Key	68	0.0057	0.0054	0.0042	0.0052
Faka Union Pass	69	0.0217	0.0113	0.0074	0.0065
Faka Union River	70	0.0178	0.0080	0.0085	0.0057
White Horse Key	71	0.0082	0.0075	0.0041	0.0060
Dismal Key	72	0.0203	0.0115	0.0069	0.0062
Gullivan Bay	73	0.0055	0.0058	0.0044	0.0056
Shell Key	74	0.0176	0.0225	0.0057	0.0054
Blackwater River	75	0.0168	0.0194	0.0090	0.0101
All Stations		0.0115	0.0049	0.0094	0.0039

Table 4a: Ten Thousand Islands Nitrite (mg/l of N)

Station Name	Station Number	N POR	Min POR	Max POR	Mean POR	S.D. POR	Coef. Var. POR
Chokoloskee	51	28	0.0012	0.0133	0.0034	0.0023	0.6828
Rabbit Key Pass	52	28	0.0003	0.0150	0.0025	0.0030	1.2096
Lopez Bay	53	28	0.0012	0.0098	0.0037	0.0019	0.5282
Lopez River	54	28	0.0010	0.0070	0.0033	0.0016	0.4893
Sunday Bay	55	28	0.0006	0.0155	0.0030	0.0035	1.1550
Huston Bay	56	28	0.0005	0.0357	0.0037	0.0066	1.8156
Upper Chatham R.	57	28	0.0007	0.0102	0.0032	0.0021	0.6428
Middle Chatham R.	58	28	0.0010	0.0127	0.0034	0.0025	0.7179
Gun Rock Pt.	59	28	0.0005	0.0137	0.0027	0.0026	0.9565
Oyster Bay	60	27	0.0007	0.0298	0.0036	0.0057	1.5528
Chevelier Bay	61	27	0.0003	0.0075	0.0028	0.0018	0.6404
Alligator Bay	62	27	0.0004	0.0130	0.0025	0.0024	0.9468
Lostman's Five Bay	63	27	0.0004	0.0039	0.0019	0.0008	0.4231
Barron River	64	28	0.0012	0.0070	0.0032	0.0014	0.4479
Indian Key Pass	65	28	0.0005	0.0120	0.0036	0.0024	0.6621
Indian Key	66	28	0.0004	0.0112	0.0028	0.0023	0.8044
West Pass	67	28	0.0005	0.0080	0.0025	0.0019	0.7615
Panther Key	68	28	0.0002	0.0115	0.0025	0.0023	0.9143
Faka Union Pass	69	28	0.0007	0.0117	0.0036	0.0023	0.6506
Faka Union River	70	28	0.0017	0.0074	0.0030	0.0012	0.4061
White Horse Key	71	28	0.0005	0.0123	0.0027	0.0024	0.9009
Dismal Key	72	28	0.0005	0.0131	0.0037	0.0025	0.6968
Gullivan Bay	73	28	0.0005	0.0131	0.0027	0.0025	0.9336
Shell Key	74	28	0.0004	0.0173	0.0040	0.0039	0.9891
Blackwater River	75	28	0.0006	0.0149	0.0045	0.0035	0.7713
All Stations		25	0.0002	0.0357	0.0031	0.0013	0.4048

POR = Period of Record as indicated on Table 1.

Table 4b: Ten Thousand Islands Nitrite (mg/l of N)

Station Name	Station Number	Mean 1995	S.D. 1995	Mean 1996	S.D. 1996
Chokoloskee	51	0.0028	0.0009	0.0028	0.0013
Rabbit Key Pass	52	0.0023	0.0016	0.0012	0.0006
Lopez Bay	53	0.0030	0.0010	0.0035	0.0016
Lopez River	54	0.0027	0.0017	0.0039	0.0015
Sunday Bay	55	0.0017	0.0011	0.0046	0.0048
Huston Bay	56	0.0019	0.0013	0.0054	0.0098
Upper Chatham R.	57	0.0027	0.0014	0.0030	0.0019
Middle Chatham R.	58	0.0029	0.0019	0.0032	0.0017
Gun Rock Pt.	59	0.0026	0.0017	0.0017	0.0012
Oyster Bay	60	0.0022	0.0014	0.0055	0.0082
Chevelier Bay	61	0.0025	0.0008	0.0027	0.0022
Alligator Bay	62	0.0023	0.0010	0.0016	0.0007
Lostman's Five Bay	63	0.0017	0.0006	0.0019	0.0008
Barron River	64	0.0028	0.0014	0.0030	0.0012
Indian Key Pass	65	0.0031	0.0014	0.0027	0.0009
Indian Key	66	0.0025	0.0009	0.0019	0.0011
West Pass	67	0.0027	0.0014	0.0016	0.0010
Panther Key	68	0.0022	0.0011	0.0015	0.0010
Faka Union Pass	69	0.0037	0.0015	0.0022	0.0009
Faka Union River	70	0.0031	0.0009	0.0024	0.0008
White Horse Key	71	0.0027	0.0014	0.0016	0.0010
Dismal Key	72	0.0039	0.0017	0.0023	0.0013
Gullivan Bay	73	0.0026	0.0013	0.0018	0.0013
Shell Key	74	0.0048	0.0038	0.0020	0.0011
Blackwater River	75	0.0047	0.0036	0.0029	0.0015
All Stations		0.0028	0.0007	0.0027	0.0023

Table 5a: Ten Thousand Islands Ammonium (mg/l of N)

Station Name	Station Number	N POR	Min POR	Max POR	Mean POR	S.D. POR	Coef. Var. POR
Chokoloskee	51	28	0.0048	0.1077	0.0291	0.0250	0.8608
Rabbit Key Pass	52	28	0.0027	0.1233	0.0142	0.0236	1.6628
Lopez Bay	53	28	0.0032	0.0795	0.0271	0.0197	0.7285
Lopez River	54	28	0.0040	0.0711	0.0262	0.0177	0.6754
Sunday Bay	55	28	0.0026	0.1490	0.0203	0.0314	1.5461
Huston Bay	56	28	0.0030	0.2503	0.0256	0.0498	1.9457
Upper Chatham R.	57	28	0.0041	0.1199	0.0265	0.0246	0.9290
Middle Chatham R.	58	28	0.0039	0.1156	0.0236	0.0226	0.9582
Gun Rock Pt.	59	28	0.0016	0.1012	0.0148	0.0195	1.3204
Oyster Bay	60	27	0.0024	0.2846	0.0313	0.0704	2.2453
Chevelier Bay	61	27	0.0030	0.1622	0.0196	0.0313	1.5953
Alligator Bay	62	27	0.0036	0.1300	0.0191	0.0309	1.6212
Lostman's Five Bay	63	27	0.0039	0.0941	0.0250	0.0210	0.8412
Barron River	64	28	0.0039	0.0750	0.0297	0.0188	0.6323
Indian Key Pass	65	28	0.0016	0.1206	0.0253	0.0237	0.9391
Indian Key	66	28	0.0023	0.1363	0.0180	0.0250	1.3924
West Pass	67	28	0.0023	0.1093	0.0166	0.0212	1.2789
Panther Key	68	28	0.0008	0.1348	0.0160	0.0258	1.6128
Faka Union Pass	69	28	0.0048	0.1232	0.0265	0.0245	0.9260
Faka Union River	70	28	0.0035	0.0630	0.0308	0.0174	0.5652
White Horse Key	71	28	0.0025	0.1411	0.0204	0.0291	1.4285
Dismal Key	72	28	0.0040	0.1334	0.0271	0.0287	1.0603
Gullivan Bay	73	28	0.0005	0.1650	0.0208	0.0333	1.6028
Shell Key	74	28	0.0012	0.1894	0.0328	0.0406	1.2359
Blackwater River	75	28	0.0005	0.1828	0.0328	0.0392	1.1938
All Stations		25	0.0005	0.2846	0.0240	0.0117	0.4864

POR = Period of Record as indicated on Table 1.

Table 5b: Ten Thousand Islands Ammonium (mg/l of N)

Station Name	Station Number	Mean 1995	S.D. 1995	Mean 1996	S.D. 1996
Chokoloskee	51	0.0247	0.0145	0.0224	0.0194
Rabbit Key Pass	52	0.0123	0.0094	0.0058	0.0040
Lopez Bay	53	0.0192	0.0112	0.0280	0.0203
Lopez River	54	0.0172	0.0124	0.0351	0.0205
Sunday Bay	55	0.0092	0.0081	0.0335	0.0447
Huston Bay	56	0.0113	0.0095	0.0385	0.0722
Upper Chatham R.	57	0.0163	0.0096	0.0281	0.0218
Middle Chatham R.	58	0.0152	0.0123	0.0247	0.0159
Gun Rock Pt.	59	0.0119	0.0102	0.0096	0.0104
Oyster Bay	60	0.0107	0.0092	0.0575	0.1014
Chevelier Bay	61	0.0113	0.0052	0.0176	0.0194
Alligator Bay	62	0.0151	0.0176	0.0081	0.0023
Lostman's Five Bay	63	0.0297	0.0237	0.0239	0.0217
Barron River	64	0.0244	0.0141	0.0323	0.0220
Indian Key Pass	65	0.0225	0.0162	0.0187	0.0130
Indian Key	66	0.0150	0.0100	0.0113	0.0097
West Pass	67	0.0168	0.0134	0.0104	0.0091
Panther Key	68	0.0126	0.0121	0.0111	0.0128
Faka Union Pass	69	0.0283	0.0184	0.0187	0.0145
Faka Union River	70	0.0337	0.0132	0.0263	0.0203
White Horse Key	71	0.0207	0.0208	0.0117	0.0141
Dismal Key	72	0.0294	0.0259	0.0181	0.0151
Gullivan Bay	73	0.0134	0.0178	0.0176	0.0207
Shell Key	74	0.0343	0.0351	0.0208	0.0195
Blackwater River	75	0.0328	0.0336	0.0205	0.0209
All Stations		0.0195	0.0075	0.0220	0.0213

Table 6a: Ten Thousand Islands Total Nitrogen (mg/l of N)

Station Name	Station Number	N POR	Min POR	Max POR	Mean POR	S.D. POR	Coef. Var. POR
Chokoloskee	51	28	0.4543	0.9954	0.6436	0.1430	0.2222
Rabbit Key Pass	52	28	0.3235	0.9429	0.5290	0.1410	0.2665
Lopez Bay	53	28	0.4128	0.9273	0.6325	0.1462	0.2311
Lopez River	54	28	0.4829	0.8836	0.6922	0.1096	0.1584
Sunday Bay	55	28	0.5419	0.9567	0.7369	0.1168	0.1585
Huston Bay	56	28	0.5031	1.0068	0.7393	0.1244	0.1683
Upper Chatham R.	57	28	0.5523	1.2300	0.7940	0.1559	0.1963
Middle Chatham R.	58	28	0.4003	1.1504	0.7288	0.1747	0.2397
Gun Rock Pt.	59	28	0.3072	1.1162	0.5992	0.1698	0.2834
Oyster Bay	60	27	0.4346	0.9609	0.7499	0.1267	0.1689
Chevelier Bay	61	27	0.4828	1.2544	0.8464	0.1854	0.2190
Alligator Bay	62	27	0.4859	1.5763	0.9189	0.2441	0.2657
Lostman's Five Bay	63	27	0.5015	1.2618	0.8523	0.2185	0.2563
Barron River	64	28	0.4522	0.8465	0.6436	0.0999	0.1552
Indian Key Pass	65	28	0.2957	0.6652	0.4927	0.0941	0.1910
Indian Key	66	28	0.2829	0.6276	0.4470	0.0922	0.2063
West Pass	67	28	0.2468	0.6463	0.4388	0.1049	0.2392
Panther Key	68	28	0.2205	0.6299	0.4215	0.1005	0.2384
Faka Union Pass	69	28	0.2681	0.6718	0.4622	0.1000	0.2165
Faka Union River	70	28	0.3383	0.6595	0.5103	0.0929	0.1820
White Horse Key	71	28	0.1878	0.6720	0.4364	0.1110	0.2543
Dismal Key	72	28	0.2245	0.6882	0.4535	0.1069	0.2357
Gullivan Bay	73	28	0.1656	0.5917	0.4026	0.0931	0.2313
Shell Key	74	28	0.2200	0.7645	0.4393	0.1248	0.2841
Blackwater River	75	28	0.2747	0.8864	0.5170	0.1508	0.2917
All Stations		25	0.1656	1.5763	0.6051	0.0404	0.0668

POR = Period of Record as indicated on Table 1.

Table 6b: Ten Thousand Islands Total Nitrogen (mg/l of N)

Station Name	Station Number	Mean 1995	S.D. 1995	Mean 1996	S.D. 1996
Chokoloskee	51	0.6274	0.1689	0.6287	0.1227
Rabbit Key Pass	52	0.5434	0.1832	0.4803	0.0780
Lopez Bay	53	0.6189	0.1379	0.6099	0.1628
Lopez River	54	0.6685	0.1060	0.7056	0.1210
Sunday Bay	55	0.7094	0.1238	0.7899	0.1026
Huston Bay	56	0.7097	0.1276	0.7653	0.1041
Upper Chatham R.	57	0.7834	0.1471	0.7834	0.1449
Middle Chatham R.	58	0.7144	0.1678	0.7279	0.1756
Gun Rock Pt.	59	0.6015	0.1695	0.5414	0.1198
Oyster Bay	60	0.7275	0.1000	0.8034	0.1199
Chevelier Bay	61	0.7994	0.1429	0.9152	0.1690
Alligator Bay	62	0.8902	0.2756	0.9906	0.1873
Lostman's Five Bay	63	0.7792	0.1933	0.9740	0.1836
Barron River	64	0.6418	0.0951	0.6551	0.1063
Indian Key Pass	65	0.5124	0.0882	0.4649	0.0984
Indian Key	66	0.4465	0.0820	0.4272	0.0854
West Pass	67	0.4749	0.1012	0.4049	0.0898
Panther Key	68	0.4444	0.0937	0.3886	0.0861
Faka Union Pass	69	0.5051	0.0998	0.4192	0.0759
Faka Union River	70	0.5474	0.0947	0.4833	0.0827
White Horse Key	71	0.4562	0.1036	0.4116	0.0812
Dismal Key	72	0.4779	0.1073	0.4324	0.0830
Gullivan Bay	73	0.4139	0.0852	0.3911	0.0757
Shell Key	74	0.4673	0.1380	0.3980	0.0801
Blackwater River	75	0.5498	0.1548	0.4667	0.1099
All Stations		0.6044	0.0447	0.6023	0.0363

Table 7a: Ten Thousand Islands Total Inorganic Nitrogen (mg/l of N)

Station Name	Station Number	N POR	Min POR	Max POR	Mean POR	S.D. POR	Coef. Var. POR
Chokoloskee	51	28	0.0064	0.1657	0.0448	0.0376	0.8409
Rabbit Key Pass	52	28	0.0033	0.1880	0.0268	0.0403	1.5041
Lopez Bay	53	28	0.0044	0.1422	0.0495	0.0347	0.7018
Lopez River	54	28	0.0055	0.0979	0.0439	0.0252	0.5728
Sunday Bay	55	28	0.0035	0.1818	0.0311	0.0403	1.2944
Huston Bay	56	28	0.0035	0.3165	0.0369	0.0630	1.7052
Upper Chatham R.	57	28	0.0061	0.1488	0.0453	0.0323	0.7130
Middle Chatham R.	58	28	0.0063	0.1759	0.0451	0.0353	0.7832
Gun Rock Pt.	59	28	0.0042	0.1937	0.0323	0.0394	1.2193
Oyster Bay	60	27	0.0037	0.3441	0.0440	0.0831	1.8881
Chevelier Bay	61	27	0.0071	0.1778	0.0322	0.0359	1.1142
Alligator Bay	62	27	0.0052	0.1695	0.0319	0.0429	1.3440
Lostman's Five Bay	63	27	0.0057	0.1204	0.0338	0.0269	0.7951
Barron River	64	28	0.0125	0.1033	0.0491	0.0268	0.5460
Indian Key Pass	65	28	0.0048	0.1653	0.0434	0.0349	0.8035
Indian Key	66	28	0.0042	0.1743	0.0292	0.0330	1.1324
West Pass	67	28	0.0039	0.1416	0.0275	0.0283	1.0278
Panther Key	68	28	0.0014	0.1949	0.0262	0.0369	1.4105
Faka Union Pass	69	28	0.0070	0.1923	0.0479	0.0388	0.8099
Faka Union River	70	28	0.0108	0.1158	0.0499	0.0270	0.5405
White Horse Key	71	28	0.0049	0.1901	0.0315	0.0399	1.2678
Dismal Key	72	28	0.0071	0.2205	0.0486	0.0452	0.9309
Gullivan Bay	73	28	0.0028	0.2096	0.0298	0.0422	1.4155
Shell Key	74	28	0.0069	0.2636	0.0505	0.0604	1.1962
Blackwater River	75	28	0.0044	0.2408	0.0535	0.0568	1.0616
All Stations		25	0.0014	0.3441	0.0394	0.0133	0.3366

POR = Period of Record as indicated on Table 1.

Table 7b: Ten Thousand Islands Total Inorganic Nitrogen (mg/l of N)

Station Name	Station Number	Mean 1995	S.D. 1995	Mean 1996	S.D. 1996
Chokoloskee	51	0.0367	0.0178	0.0338	0.0241
Rabbit Key Pass	52	0.0237	0.0228	0.0102	0.0063
Lopez Bay	53	0.0380	0.0207	0.0470	0.0313
Lopez River	54	0.0318	0.0231	0.0559	0.0260
Sunday Bay	55	0.0168	0.0137	0.0494	0.0560
Huston Bay	56	0.0178	0.0158	0.0546	0.0901
Upper Chatham R.	57	0.0319	0.0196	0.0482	0.0311
Middle Chatham R.	58	0.0309	0.0265	0.0474	0.0246
Gun Rock Pt.	59	0.0253	0.0235	0.0190	0.0184
Oyster Bay	60	0.0181	0.0148	0.0768	0.1183
Chevelier Bay	61	0.0230	0.0155	0.0329	0.0287
Alligator Bay	62	0.0322	0.0335	0.0120	0.0054
Lostman's Five Bay	63	0.0379	0.0297	0.0343	0.0290
Barron River	64	0.0422	0.0222	0.0526	0.0324
Indian Key Pass	65	0.0383	0.0226	0.0308	0.0193
Indian Key	66	0.0244	0.0108	0.0186	0.0162
West Pass	67	0.0299	0.0183	0.0165	0.0143
Panther Key	68	0.0205	0.0163	0.0168	0.0185
Faka Union Pass	69	0.0538	0.0275	0.0283	0.0215
Faka Union River	70	0.0546	0.0197	0.0372	0.0250
White Horse Key	71	0.0316	0.0276	0.0174	0.0207
Dismal Key	72	0.0536	0.0337	0.0273	0.0220
Gullivan Bay	73	0.0215	0.0224	0.0238	0.0267
Shell Key	74	0.0567	0.0590	0.0285	0.0247
Blackwater River	75	0.0543	0.0550	0.0324	0.0305
All Stations		0.0338	0.0114	0.0341	0.0245

Table 8a: Ten Thousand Islands Total Organic Nitrogen (mg/l of N)

Station Name	Station Number	N POR	Min POR	Max POR	Mean POR	S.D. POR	Coef. Var. POR
Chokoloskee	51	28	0.4162	0.9396	0.5988	0.1324	0.2210
Rabbit Key Pass	52	28	0.3195	0.8755	0.5022	0.1234	0.2457
Lopez Bay	53	28	0.3710	0.8106	0.5831	0.1279	0.2194
Lopez River	54	28	0.4478	0.8437	0.6483	0.1076	0.1660
Sunday Bay	55	28	0.5278	0.9221	0.7058	0.1054	0.1494
Huston Bay	56	28	0.4903	0.8971	0.7024	0.1158	0.1649
Upper Chatham R.	57	28	0.4933	1.0812	0.7487	0.1519	0.2029
Middle Chatham R.	58	28	0.3829	0.9744	0.6837	0.1594	0.2331
Gun Rock Pt.	59	28	0.2893	0.9225	0.5669	0.1436	0.2533
Oyster Bay	60	27	0.4232	0.9485	0.7059	0.1197	0.1695
Chevelier Bay	61	27	0.4644	1.1699	0.8142	0.1795	0.2204
Alligator Bay	62	27	0.4605	1.5661	0.8870	0.2456	0.2769
Lostman's Five Bay	63	27	0.4853	1.2200	0.8185	0.2130	0.2603
Barron River	64	28	0.4212	0.8049	0.5945	0.1020	0.1716
Indian Key Pass	65	28	0.2666	0.6068	0.4493	0.0901	0.2005
Indian Key	66	28	0.2045	0.5516	0.4178	0.0891	0.2133
West Pass	67	28	0.2223	0.5621	0.4113	0.0978	0.2377
Panther Key	68	28	0.2064	0.5780	0.3953	0.0911	0.2305
Faka Union Pass	69	28	0.2351	0.5852	0.4143	0.0881	0.2127
Faka Union River	70	28	0.2880	0.6136	0.4604	0.0882	0.1915
White Horse Key	71	28	0.1745	0.6005	0.4049	0.0950	0.2347
Dismal Key	72	28	0.1637	0.6160	0.4050	0.0934	0.2306
Gullivan Bay	73	28	0.1566	0.5165	0.3728	0.0816	0.2189
Shell Key	74	28	0.2096	0.6770	0.3889	0.0947	0.2435
Blackwater River	75	28	0.2640	0.7270	0.4635	0.1287	0.2776
All Stations		25	0.1566	1.5661	0.5657	0.0411	0.0727

POR = Period of Record as indicated on Table 1.

Table 8b: Ten Thousand Islands Total Organic Nitrogen (mg/l of N)

Station Name	Station Number	Mean 1995	S.D. 1995	Mean 1996	S.D. 1996
Chokoloskee	51	0.5908	0.1612	0.5949	0.1181
Rabbit Key Pass	52	0.5197	0.1734	0.4700	0.0801
Lopez Bay	53	0.5809	0.1258	0.5629	0.1459
Lopez River	54	0.6366	0.0934	0.6498	0.1278
Sunday Bay	55	0.6925	0.1174	0.7406	0.0941
Huston Bay	56	0.6920	0.1167	0.7107	0.1140
Upper Chatham R.	57	0.7515	0.1410	0.7352	0.1636
Middle Chatham R.	58	0.6835	0.1494	0.6805	0.1790
Gun Rock Pt.	59	0.5763	0.1538	0.5224	0.1185
Oyster Bay	60	0.7093	0.0906	0.7266	0.1307
Chevelier Bay	61	0.7765	0.1459	0.8823	0.1857
Alligator Bay	62	0.8580	0.2845	0.9785	0.1863
Lostman's Five Bay	63	0.7413	0.1848	0.9397	0.1791
Barron River	64	0.5996	0.0948	0.6024	0.1154
Indian Key Pass	65	0.4741	0.0935	0.4340	0.0945
Indian Key	66	0.4222	0.0826	0.4086	0.0839
West Pass	67	0.4450	0.1035	0.3884	0.0884
Panther Key	68	0.4239	0.0948	0.3718	0.0827
Faka Union Pass	69	0.4513	0.0967	0.3909	0.0733
Faka Union River	70	0.4928	0.0946	0.4461	0.0800
White Horse Key	71	0.4246	0.0943	0.3943	0.0793
Dismal Key	72	0.4243	0.1013	0.4051	0.0755
Gullivan Bay	73	0.3924	0.0801	0.3672	0.0728
Shell Key	74	0.4106	0.1139	0.3695	0.0777
Blackwater River	75	0.4954	0.1465	0.4343	0.1013
All Stations		0.5706	0.0447	0.5683	0.0387

Table 9a: Ten Thousand Islands Total Phosphorus (mg/l of P)

Station Name	Station Number	N POR	Min POR	Max POR	Mean POR	S.D. POR	Coef. Var. POR
Chokoloskee	51	28	0.0265	0.0575	0.0409	0.0091	0.2228
Rabbit Key Pass	52	28	0.0135	0.0690	0.0350	0.0128	0.3649
Lopez Bay	53	28	0.0175	0.0715	0.0358	0.0097	0.2699
Lopez River	54	28	0.0181	0.0709	0.0354	0.0104	0.2937
Sunday Bay	55	28	0.0153	0.0698	0.0341	0.0129	0.3783
Huston Bay	56	28	0.0132	0.0485	0.0295	0.0090	0.3053
Upper Chatham R.	57	28	0.0201	0.0649	0.0349	0.0110	0.3140
Middle Chatham R.	58	28	0.0188	0.0593	0.0349	0.0102	0.2929
Gun Rock Pt.	59	28	0.0112	0.0714	0.0337	0.0117	0.3459
Oyster Bay	60	27	0.0215	0.0899	0.0409	0.0138	0.3369
Chevelier Bay	61	27	0.0185	0.0793	0.0366	0.0149	0.4067
Alligator Bay	62	27	0.0124	0.0514	0.0268	0.0104	0.3885
Lostman's Five Bay	63	27	0.0096	0.0563	0.0210	0.0108	0.5157
Barron River	64	28	0.0147	0.0848	0.0408	0.0155	0.3793
Indian Key Pass	65	28	0.0167	0.0660	0.0418	0.0115	0.2758
Indian Key	66	28	0.0097	0.0829	0.0374	0.0140	0.3746
West Pass	67	28	0.0108	0.0772	0.0380	0.0155	0.4084
Panther Key	68	28	0.0117	0.0701	0.0395	0.0166	0.4211
Faka Union Pass	69	28	0.0161	0.0669	0.0415	0.0122	0.2943
Faka Union River	70	28	0.0157	0.0600	0.0335	0.0106	0.3155
White Horse Key	71	28	0.0125	0.0785	0.0456	0.0164	0.3603
Dismal Key	72	28	0.0162	0.0853	0.0496	0.0175	0.3526
Gullivan Bay	73	27	0.0165	0.1118	0.0495	0.0214	0.4330
Shell Key	74	27	0.0164	0.0935	0.0501	0.0173	0.3446
Blackwater River	75	27	0.0164	0.0946	0.0610	0.0196	0.3216
All Stations		25	0.0096	0.1118	0.0387	0.0034	0.0874

POR = Period of Record as indicated on Table 1.

Table 9b: Ten Thousand Islands Total Phosphorus (mg/l of P)

Station Name	Station Number	Mean 1995	S.D. 1995	Mean 1996	S.D. 1996
Chokoloskee	51	0.0377	0.0094	0.0423	0.0076
Rabbit Key Pass	52	0.0341	0.0155	0.0346	0.0061
Lopez Bay	53	0.0310	0.0071	0.0369	0.0057
Lopez River	54	0.0308	0.0097	0.0357	0.0060
Sunday Bay	55	0.0340	0.0144	0.0339	0.0102
Huston Bay	56	0.0268	0.0101	0.0305	0.0061
Upper Chatham R.	57	0.0326	0.0134	0.0347	0.0064
Middle Chatham R.	58	0.0320	0.0110	0.0350	0.0086
Gun Rock Pt.	59	0.0306	0.0099	0.0316	0.0065
Oyster Bay	60	0.0429	0.0186	0.0401	0.0104
Chevelier Bay	61	0.0361	0.0198	0.0376	0.0084
Alligator Bay	62	0.0239	0.0085	0.0311	0.0123
Lostman's Five Bay	63	0.0195	0.0099	0.0230	0.0128
Barron River	64	0.0360	0.0114	0.0444	0.0137
Indian Key Pass	65	0.0398	0.0119	0.0431	0.0093
Indian Key	66	0.0331	0.0113	0.0393	0.0105
West Pass	67	0.0364	0.0165	0.0384	0.0123
Panther Key	68	0.0362	0.0184	0.0423	0.0151
Faka Union Pass	69	0.0363	0.0123	0.0461	0.0113
Faka Union River	70	0.0305	0.0095	0.0383	0.0114
White Horse Key	71	0.0416	0.0170	0.0493	0.0149
Dismal Key	72	0.0440	0.0187	0.0556	0.0154
Gullivan Bay	73	0.0457	0.0254	0.0510	0.0141
Shell Key	74	0.0426	0.0171	0.0538	0.0125
Blackwater River	75	0.0538	0.0261	0.0660	0.0127
All Stations		0.0355	0.0051	0.0406	0.0032

Table 10a: Ten Thousand Islands Soluble Reactive Phosphorus (mg/l of P)

Station Name	Station Number	N POR	Min POR	Max POR	Mean POR	S.D. POR	Coef. Var. POR
Chokoloskee	51	27	0.0050	0.0156	0.0089	0.0033	0.3682
Rabbit Key Pass	52	28	0.0002	0.0224	0.0077	0.0041	0.5393
Lopez Bay	53	28	0.0021	0.0164	0.0086	0.0045	0.5274
Lopez River	54	28	0.0005	0.0135	0.0044	0.0034	0.7574
Sunday Bay	55	28	0.0000	0.0050	0.0016	0.0013	0.8298
Huston Bay	56	28	0.0000	0.0049	0.0014	0.0013	0.9473
Upper Chatham R.	57	28	0.0000	0.0103	0.0026	0.0025	0.9571
Middle Chatham R.	58	28	0.0000	0.0094	0.0034	0.0025	0.7497
Gun Rock Pt.	59	28	0.0001	0.0140	0.0049	0.0032	0.6518
Oyster Bay	60	27	0.0000	0.0052	0.0016	0.0012	0.7587
Chevelier Bay	61	27	0.0000	0.0094	0.0017	0.0019	1.1031
Alligator Bay	62	27	0.0001	0.0053	0.0014	0.0014	0.9686
Lostman's Five Bay	63	27	0.0000	0.0062	0.0014	0.0016	1.1167
Barron River	64	28	0.0008	0.0277	0.0096	0.0056	0.5819
Indian Key Pass	65	28	0.0011	0.0443	0.0142	0.0080	0.5666
Indian Key	66	28	0.0002	0.0227	0.0106	0.0052	0.4912
West Pass	67	28	0.0003	0.0185	0.0107	0.0056	0.5244
Panther Key	68	28	0.0002	0.0322	0.0114	0.0069	0.6089
Faka Union Pass	69	28	0.0051	0.0396	0.0145	0.0074	0.5099
Faka Union River	70	28	0.0008	0.0264	0.0077	0.0058	0.7503
White Horse Key	71	28	0.0016	0.0273	0.0141	0.0076	0.5390
Dismal Key	72	28	0.0037	0.0394	0.0192	0.0084	0.4391
Gullivan Bay	73	28	0.0008	0.0350	0.0164	0.0095	0.5794
Shell Key	74	28	0.0051	0.0465	0.0209	0.0117	0.5578
Blackwater River	75	28	0.0122	0.0663	0.0276	0.0128	0.4640
All Stations		25	0.0000	0.0663	0.0091	0.0033	0.3649

POR = Period of Record as indicated on Table 1.

Table 10b: Ten Thousand Islands Soluble Reactive Phosphorus (mg/l of P)

Station Name	Station Number	Mean 1995	S.D. 1995	Mean 1996	S.D. 1996
Chokoloskee	51	0.0083	0.0027	0.0084	0.0033
Rabbit Key Pass	52	0.0081	0.0033	0.0068	0.0024
Lopez Bay	53	0.0075	0.0044	0.0091	0.0043
Lopez River	54	0.0041	0.0037	0.0046	0.0034
Sunday Bay	55	0.0017	0.0016	0.0016	0.0012
Huston Bay	56	0.0013	0.0016	0.0015	0.0013
Upper Chatham R.	57	0.0020	0.0017	0.0026	0.0023
Middle Chatham R.	58	0.0029	0.0017	0.0040	0.0032
Gun Rock Pt.	59	0.0049	0.0026	0.0040	0.0029
Oyster Bay	60	0.0018	0.0014	0.0015	0.0013
Chevelier Bay	61	0.0015	0.0014	0.0011	0.0010
Alligator Bay	62	0.0013	0.0018	0.0013	0.0012
Lostman's Five Bay	63	0.0013	0.0021	0.0016	0.0013
Barron River	64	0.0071	0.0042	0.0117	0.0063
Indian Key Pass	65	0.0142	0.0109	0.0136	0.0055
Indian Key	66	0.0094	0.0041	0.0110	0.0055
West Pass	67	0.0108	0.0055	0.0116	0.0051
Panther Key	68	0.0108	0.0049	0.0121	0.0083
Faka Union Pass	69	0.0139	0.0057	0.0154	0.0092
Faka Union River	70	0.0059	0.0031	0.0096	0.0078
White Horse Key	71	0.0143	0.0062	0.0138	0.0077
Dismal Key	72	0.0174	0.0074	0.0207	0.0091
Gullivan Bay	73	0.0139	0.0059	0.0188	0.0102
Shell Key	74	0.0225	0.0087	0.0186	0.0121
Blackwater River	75	0.0278	0.0159	0.0258	0.0096
All Stations		0.0086	0.0034	0.0092	0.0034

Table 11a: Ten Thousand Islands Alkaline Phosphatase Activity (uM/hr)

Station Name	Station Number	N POR	Min POR	Max POR	Mean POR	S.D. POR	Coef. Var. POR
Chokoloskee	51	28	0.02	0.13	0.05	0.03	0.52
Rabbit Key Pass	52	28	0.02	0.16	0.04	0.03	0.69
Lopez Bay	53	27	0.02	0.13	0.06	0.04	0.58
Lopez River	54	28	0.03	0.22	0.10	0.06	0.57
Sunday Bay	55	28	0.08	0.70	0.25	0.14	0.56
Huston Bay	56	28	0.06	0.56	0.29	0.12	0.41
Upper Chatham R.	57	28	0.04	0.88	0.20	0.20	1.02
Middle Chatham R.	58	28	0.03	0.88	0.16	0.17	1.08
Gun Rock Pt.	59	28	0.02	0.52	0.09	0.10	1.20
Oyster Bay	60	27	0.08	0.92	0.31	0.19	0.61
Chevelier Bay	61	27	0.03	0.83	0.30	0.23	0.78
Alligator Bay	62	27	0.15	3.53	0.67	0.66	0.98
Lostman's Five Bay	63	27	0.13	0.93	0.37	0.17	0.46
Barron River	64	28	0.01	0.17	0.07	0.04	0.60
Indian Key Pass	65	28	0.01	0.10	0.04	0.02	0.55
Indian Key	66	28	0.01	0.11	0.04	0.02	0.52
West Pass	67	28	0.01	0.13	0.04	0.02	0.64
Panther Key	68	28	0.01	0.11	0.03	0.02	0.55
Faka Union Pass	69	28	0.01	0.11	0.04	0.02	0.60
Faka Union River	70	28	0.01	0.17	0.07	0.04	0.55
White Horse Key	71	28	0.01	0.08	0.03	0.02	0.45
Dismal Key	72	28	0.01	0.07	0.03	0.01	0.44
Gullivan Bay	73	28	0.01	0.05	0.03	0.01	0.35
Shell Key	74	28	0.02	0.08	0.04	0.01	0.38
Blackwater River	75	27	0.02	0.14	0.04	0.02	0.61
All Stations		25	0.01	3.53	0.13	0.14	1.01

POR = Period of Record as indicated on Table 1.

Table 11b: Ten Thousand Islands Alkaline Phosphatase Activity (uM/hr)

Station Name	Station Number	Mean 1995	S.D. 1995	Mean 1996	S.D. 1996
Chokoloskee	51	0.05	0.04	0.05	0.02
Rabbit Key Pass	52	0.05	0.04	0.04	0.01
Lopez Bay	53	0.07	0.04	0.05	0.02
Lopez River	54	0.12	0.07	0.07	0.03
Sunday Bay	55	0.29	0.18	0.23	0.11
Huston Bay	56	0.33	0.14	0.25	0.10
Upper Chatham R.	57	0.28	0.26	0.16	0.16
Middle Chatham R.	58	0.23	0.24	0.10	0.10
Gun Rock Pt.	59	0.12	0.15	0.05	0.04
Oyster Bay	60	0.44	0.22	0.21	0.09
Chevelier Bay	61	0.37	0.25	0.26	0.22
Alligator Bay	62	0.89	0.94	0.61	0.32
Lostman's Five Bay	63	0.32	0.13	0.41	0.23
Barron River	64	0.09	0.05	0.05	0.03
Indian Key Pass	65	0.04	0.02	0.03	0.02
Indian Key	66	0.05	0.02	0.03	0.02
West Pass	67	0.04	0.03	0.03	0.02
Panther Key	68	0.04	0.03	0.03	0.01
Faka Union Pass	69	0.05	0.03	0.03	0.01
Faka Union River	70	0.09	0.04	0.05	0.03
White Horse Key	71	0.04	0.02	0.03	0.01
Dismal Key	72	0.04	0.02	0.03	0.01
Gullivan Bay	73	0.04	0.01	0.03	0.01
Shell Key	74	0.04	0.02	0.03	0.01
Blackwater River	75	0.05	0.03	0.03	0.01
All Stations		0.17	0.19	0.12	0.08

Table 12a: Ten Thousand Islands Chlorophyll a (ug/l)

Station Name	Station Number	N POR	Min POR	Max POR	Mean POR	S.D. POR	Coef. Var. POR
Chokoloskee	51	28	0.33	10.30	3.21	2.08	0.65
Rabbit Key Pass	52	28	0.54	12.10	3.65	2.21	0.60
Lopez Bay	53	28	0.34	6.99	2.81	1.73	0.62
Lopez River	54	28	0.35	10.97	3.50	2.20	0.63
Sunday Bay	55	28	0.44	8.25	4.09	2.34	0.57
Huston Bay	56	28	0.52	12.97	4.20	2.68	0.64
Upper Chatham R.	57	28	0.28	12.21	4.61	3.25	0.71
Middle Chatham R.	58	28	0.25	13.01	4.46	3.08	0.69
Gun Rock Pt.	59	28	0.23	8.84	3.93	2.24	0.57
Oyster Bay	60	27	0.42	30.34	7.57	7.04	0.93
Chevelier Bay	61	27	0.32	20.08	6.03	4.37	0.72
Alligator Bay	62	27	1.30	30.69	7.90	6.96	0.88
Lostman's Five Bay	63	27	0.59	11.41	2.88	2.70	0.94
Barron River	64	28	0.20	18.21	3.59	3.72	1.04
Indian Key Pass	65	28	0.21	11.87	3.10	2.26	0.73
Indian Key	66	28	0.19	8.73	3.28	2.10	0.64
West Pass	67	28	0.12	12.64	3.45	2.66	0.77
Panther Key	68	28	0.26	13.56	3.47	2.77	0.80
Faka Union Pass	69	28	0.19	8.24	2.96	1.94	0.66
Faka Union River	70	28	0.20	10.18	2.54	2.01	0.79
White Horse Key	71	28	0.19	14.89	3.69	3.01	0.82
Dismal Key	72	28	0.32	13.37	3.66	2.88	0.79
Gullivan Bay	73	28	0.23	13.05	4.15	3.16	0.76
Shell Key	74	28	0.33	11.16	3.81	2.89	0.76
Blackwater River	75	28	0.25	8.51	3.87	2.27	0.59
All Stations		25	0.12	30.69	4.02	1.35	0.34

POR = Period of Record as indicated on Table 1.

Table 12b: Ten Thousand Islands Chlorophyll a (ug/l)

Station Name	Station Number	Mean 1995	S.D. 1995	Mean 1996	S.D. 1996
Chokoloskee	51	3.70	2.26	2.44	1.59
Rabbit Key Pass	52	4.04	2.95	2.72	1.05
Lopez Bay	53	2.69	1.03	2.44	1.90
Lopez River	54	3.53	1.38	2.95	2.16
Sunday Bay	55	5.26	2.70	3.24	1.97
Huston Bay	56	4.60	3.31	3.63	2.35
Upper Chatham R.	57	5.83	3.73	3.56	3.17
Middle Chatham R.	58	5.39	3.41	3.55	3.26
Gun Rock Pt.	59	4.47	2.00	2.83	2.20
Oyster Bay	60	9.19	7.30	6.45	7.98
Chevelier Bay	61	7.49	5.53	4.95	3.70
Alligator Bay	62	11.17	8.64	6.82	5.04
Lostman's Five Bay	63	2.54	3.12	3.26	2.27
Barron River	64	4.40	4.97	2.12	1.56
Indian Key Pass	65	3.89	3.00	2.27	1.53
Indian Key	66	4.04	2.62	2.29	1.39
West Pass	67	4.00	3.40	2.65	1.99
Panther Key	68	4.34	3.75	2.54	1.72
Faka Union Pass	69	2.92	1.39	2.57	2.17
Faka Union River	70	2.36	1.49	2.90	2.71
White Horse Key	71	4.55	3.78	2.77	2.30
Dismal Key	72	4.40	3.41	2.74	2.37
Gullivan Bay	73	5.02	2.95	3.43	3.58
Shell Key	74	3.76	1.83	3.53	3.45
Blackwater River	75	3.85	2.18	3.53	2.66
All Stations		4.70	1.78	3.29	1.42

Table 13a: Ten Thousand Islands Total Organic Carbon (mg/l)

Station Name	Station Number	N POR	Min POR	Max POR	Mean POR	S.D. POR	Coef. Var. POR
Chokoloskee	51	28	7.05	13.75	9.36	1.70	0.18
Rabbit Key Pass	52	28	5.37	10.64	7.59	1.26	0.17
Lopez Bay	53	28	6.91	15.01	9.62	2.18	0.23
Lopez River	54	28	8.05	15.55	11.06	2.03	0.18
Sunday Bay	55	28	6.35	16.96	12.03	2.56	0.21
Huston Bay	56	28	6.44	16.72	12.07	2.65	0.22
Upper Chatham R.	57	28	8.22	17.44	12.88	2.71	0.21
Middle Chatham R.	58	28	6.45	17.42	12.09	2.88	0.24
Gun Rock Pt.	59	28	5.19	16.54	9.07	2.75	0.30
Oyster Bay	60	27	9.27	17.83	13.25	2.48	0.19
Chevelier Bay	61	27	9.79	20.85	13.80	3.07	0.22
Alligator Bay	62	27	7.88	22.40	15.49	4.12	0.27
Lostman's Five Bay	63	27	6.96	19.84	12.88	3.30	0.26
Barron River	64	28	5.89	14.46	10.56	2.11	0.20
Indian Key Pass	65	28	5.25	9.90	7.41	1.49	0.20
Indian Key	66	28	4.90	9.45	6.77	1.34	0.20
West Pass	67	28	4.25	9.30	6.53	1.39	0.21
Panther Key	68	28	3.81	10.27	6.54	1.56	0.24
Faka Union Pass	69	28	4.48	11.71	7.68	1.96	0.25
Faka Union River	70	28	5.81	13.52	10.01	2.15	0.22
White Horse Key	71	28	4.33	9.86	6.76	1.60	0.24
Dismal Key	72	28	4.68	10.18	7.00	1.64	0.23
Gullivan Bay	73	28	3.88	9.91	6.41	1.71	0.27
Shell Key	74	28	3.81	11.70	6.70	2.02	0.30
Blackwater River	75	27	4.87	17.56	9.71	3.55	0.37
All Stations		25	3.81	22.40	9.73	0.75	0.08

POR = Period of Record as indicated on Table 1.

Table 13b: Ten Thousand Islands Total Organic Carbon (mg/l)

Station Name	Station Number	Mean 1995	S.D. 1995	Mean 1996	S.D. 1996
Chokoloskee	51	8.80	1.01	9.62	2.22
Rabbit Key Pass	52	7.38	1.48	7.45	1.11
Lopez Bay	53	8.81	1.35	9.91	2.92
Lopez River	54	9.88	1.25	11.86	2.46
Sunday Bay	55	10.61	2.69	13.56	1.97
Huston Bay	56	10.68	2.27	13.06	2.76
Upper Chatham R.	57	11.75	1.92	13.30	3.16
Middle Chatham R.	58	11.20	2.29	12.16	3.18
Gun Rock Pt.	59	8.40	2.43	8.53	1.86
Oyster Bay	60	12.40	2.10	13.97	2.66
Chevelier Bay	61	12.25	1.93	15.40	3.63
Alligator Bay	62	13.09	3.17	17.97	2.99
Lostman's Five Bay	63	10.50	2.24	15.18	1.56
Barron River	64	10.70	1.37	10.18	2.63
Indian Key Pass	65	7.76	1.32	7.01	1.77
Indian Key	66	7.13	1.27	6.37	1.54
West Pass	67	7.02	1.33	5.99	1.47
Panther Key	68	6.95	1.72	5.96	1.48
Faka Union Pass	69	8.61	1.93	6.70	1.68
Faka Union River	70	11.39	0.85	8.59	2.00
White Horse Key	71	7.37	1.77	6.20	1.44
Dismal Key	72	7.57	1.68	6.35	1.53
Gullivan Bay	73	6.85	1.76	5.73	1.40
Shell Key	74	7.29	2.25	5.72	1.43
Blackwater River	75	11.14	3.71	7.88	2.61
All Stations		9.42	0.66	9.79	0.71

Table 14: Ten Thousand Islands Silica (mg/l of Si)

Station Name	Station Number	N POR	Min POR	Max POR	Mean POR	S.D. POR	Coef. Var. POR
Chokoloskee	51	4	1.0382	1.9780	1.5774	0.3987	0.2527
Rabbit Key Pass	52	4	0.6691	1.7529	1.3756	0.4818	0.3502
Lopez Bay	53	4	1.2920	1.6633	1.4920	0.1609	0.1079
Lopez River	54	4	1.4095	1.8572	1.6453	0.1854	0.1127
Sunday Bay	55	4	0.1036	2.3648	1.3866	0.9762	0.7040
Huston Bay	56	4	0.1699	1.5804	1.0395	0.6673	0.6419
Upper Chatham R.	57	4	0.5014	1.9586	1.2433	0.6947	0.5588
Middle Chatham R.	58	4	0.6609	2.1023	1.2937	0.6336	0.4898
Gun Rock Pt.	59	4	0.1604	2.1503	1.2861	0.8999	0.6997
Oyster Bay	60	4	0.0395	1.8457	1.1042	0.7782	0.7048
Chevelier Bay	61	3	0.6720	2.1443	1.3464	0.7439	0.5525
Alligator Bay	62	3	0.3505	1.9945	1.1893	0.8225	0.6916
Lostman's Five Bay	63	3	0.7762	1.7188	1.2629	0.4721	0.3738
Barron River	64	4	1.8148	2.6116	2.1655	0.3338	0.1542
Indian Key Pass	65	4	1.4729	2.2622	1.7275	0.3622	0.2096
Indian Key	66	4	1.2228	1.6411	1.4877	0.1838	0.1235
West Pass	67	4	1.0361	1.6150	1.3552	0.2400	0.1771
Panther Key	68	4	0.8209	1.7188	1.1947	0.3767	0.3153
Faka Union Pass	69	4	1.3049	1.9034	1.5824	0.2483	0.1569
Faka Union River	70	4	1.2969	2.1503	1.7850	0.3790	0.2123
White Horse Key	71	4	0.4076	1.8342	1.1259	0.5889	0.5231
Dismal Key	72	4	1.3945	2.2741	1.7917	0.4241	0.2367
Gullivan Bay	73	4	0.7797	1.6150	1.0627	0.3860	0.3633
Shell Key	74	4	0.7672	1.8688	1.2112	0.4670	0.3856
Blackwater River	75	4	1.2081	2.0533	1.5954	0.3547	0.2223
All Stations		25	0.0395	2.6116	1.4131	0.2319	0.1641

POR = Period of Record as indicated on Table 1.

Table 15a: Ten Thousand Islands Turbidity (NTU)

Station Name	Station Number	N POR	Min POR	Max POR	Mean POR	S.D. POR	Coef. Var. POR
Chokoloskee	51	28	3.64	26.85	10.26	5.69	0.55
Rabbit Key Pass	52	28	1.95	20.60	7.76	3.95	0.51
Lopez Bay	53	28	3.37	21.60	8.46	3.99	0.47
Lopez River	54	28	1.95	20.65	7.96	4.19	0.53
Sunday Bay	55	28	0.90	25.00	7.29	6.26	0.86
Huston Bay	56	28	1.85	13.55	6.49	3.34	0.51
Upper Chatham R.	57	28	1.31	13.85	6.14	3.08	0.50
Middle Chatham R.	58	28	1.85	14.15	6.87	3.25	0.47
Gun Rock Pt.	59	28	2.80	19.25	8.45	4.16	0.49
Oyster Bay	60	27	2.45	43.60	10.82	8.30	0.77
Chevelier Bay	61	27	1.10	15.40	4.56	3.31	0.73
Alligator Bay	62	27	0.40	9.50	3.17	2.12	0.67
Lostman's Five Bay	63	27	0.38	4.85	1.82	1.28	0.70
Barron River	64	28	2.09	16.95	7.18	3.75	0.52
Indian Key Pass	65	28	1.60	19.40	8.69	4.23	0.49
Indian Key	66	28	1.70	18.50	7.94	4.68	0.59
West Pass	67	28	1.20	22.80	8.19	5.40	0.66
Panther Key	68	28	0.55	25.45	8.92	5.77	0.65
Faka Union Pass	69	28	1.90	26.55	8.51	5.11	0.60
Faka Union River	70	28	1.20	12.05	4.66	2.10	0.45
White Horse Key	71	28	2.05	19.05	9.21	4.45	0.48
Dismal Key	72	28	2.40	26.25	9.26	5.04	0.54
Gullivan Bay	73	28	1.55	68.00	12.86	14.42	1.12
Shell Key	74	28	1.85	40.50	10.16	7.86	0.77
Blackwater River	75	27	3.05	26.85	10.40	5.57	0.54
All Stations		25	0.38	68.00	7.84	2.58	0.33

POR = Period of Record as indicated on Table 1.

Table 15b: Ten Thousand Islands Turbidity (NTU)

Station Name	Station Number	Mean 1995	S.D. 1995	Mean 1996	S.D. 1996
Chokoloskee	51	10.74	5.86	8.92	3.97
Rabbit Key Pass	52	8.79	4.67	6.23	2.43
Lopez Bay	53	7.96	3.04	6.93	2.54
Lopez River	54	7.24	2.82	6.11	2.76
Sunday Bay	55	8.71	7.88	5.09	2.71
Huston Bay	56	6.32	3.90	5.30	2.29
Upper Chatham R.	57	5.52	3.31	5.53	2.73
Middle Chatham R.	58	6.25	2.79	5.73	2.69
Gun Rock Pt.	59	8.45	3.37	6.12	2.60
Oyster Bay	60	13.45	10.87	8.28	5.20
Chevelier Bay	61	5.54	4.54	3.84	1.79
Alligator Bay	62	3.73	2.59	3.42	1.63
Lostman's Five Bay	63	1.61	1.17	2.38	1.44
Barron River	64	6.44	3.52	6.85	4.22
Indian Key Pass	65	8.86	3.47	8.17	4.21
Indian Key	66	8.82	4.82	7.20	4.44
West Pass	67	10.47	6.67	6.75	3.86
Panther Key	68	10.24	6.07	7.83	5.44
Faka Union Pass	69	8.19	2.92	8.26	6.45
Faka Union River	70	4.09	1.25	4.72	1.84
White Horse Key	71	11.11	4.78	7.85	3.57
Dismal Key	72	9.82	4.88	8.59	6.08
Gullivan Bay	73	14.23	11.12	11.12	18.37
Shell Key	74	10.46	5.17	9.08	10.65
Blackwater River	75	12.30	7.68	8.03	3.22
All Stations		8.37	2.54	6.73	3.54

Table 16a: Ten Thousand Islands Surface Salinity (ppt)

Station Name	Station Number	N POR	Min POR	Max POR	Mean POR	S.D. POR	Coef. Var. POR
Chokoloskee	51	28	1.30	34.70	18.71	9.57	0.51
Rabbit Key Pass	52	28	5.40	34.10	23.43	7.29	0.31
Lopez Bay	53	28	0.70	34.60	16.24	11.09	0.68
Lopez River	54	28	0.50	34.10	12.44	10.88	0.87
Sunday Bay	55	28	0.20	33.10	8.73	10.21	1.17
Huston Bay	56	28	0.30	31.80	8.59	9.53	1.11
Upper Chatham R.	57	28	1.50	31.50	9.46	8.76	0.93
Middle Chatham R.	58	28	1.40	31.80	11.15	9.64	0.86
Gun Rock Pt.	59	28	1.90	32.40	19.12	9.26	0.48
Oyster Bay	60	27	0.80	32.10	8.99	9.49	1.06
Chevelier Bay	61	27	1.20	29.60	7.66	7.35	0.96
Alligator Bay	62	27	0.20	12.10	2.47	2.76	1.12
Lostman's Five Bay	63	27	0.00	14.60	1.55	3.61	2.33
Barron River	64	28	0.30	33.60	14.01	10.35	0.74
Indian Key Pass	65	28	7.20	34.20	23.99	6.87	0.29
Indian Key	66	28	11.30	34.30	26.04	5.57	0.21
West Pass	67	28	13.30	34.10	26.83	5.67	0.21
Panther Key	68	28	9.60	34.10	26.91	6.14	0.23
Faka Union Pass	69	28	3.80	34.40	23.07	8.49	0.37
Faka Union River	70	28	0.10	32.40	12.74	11.32	0.89
White Horse Key	71	28	6.60	34.60	27.24	6.93	0.25
Dismal Key	72	28	8.40	34.80	26.21	6.80	0.26
Gullivan Bay	73	28	16.60	35.40	30.10	4.52	0.15
Shell Key	74	28	10.10	35.20	29.33	5.65	0.19
Blackwater River	75	28	1.40	35.10	26.92	7.80	0.29
All Stations		25	0.00	35.40	17.68	2.37	0.13

POR = Period of Record as indicated on Table 1.

Table 16a: Ten Thousand Islands Surface Salinity (ppt)

Station Name	Station Number	Mean 1995	S.D. 1995	Mean 1996	S.D. 1996
Chokoloskee	51	15.23	9.34	24.69	7.78
Rabbit Key Pass	52	19.89	6.42	28.09	4.63
Lopez Bay	53	11.45	9.00	22.51	10.59
Lopez River	54	7.56	7.19	19.13	10.94
Sunday Bay	55	3.35	4.07	15.25	11.46
Huston Bay	56	3.63	4.55	14.68	10.71
Upper Chatham R.	57	5.19	4.35	14.88	10.04
Middle Chatham R.	58	6.90	6.98	17.17	9.74
Gun Rock Pt.	59	14.81	8.66	25.80	4.19
Oyster Bay	60	3.64	4.15	14.90	10.54
Chevelier Bay	61	4.03	2.40	12.09	8.91
Alligator Bay	62	1.13	0.36	4.19	3.65
Lostman's Five Bay	63	0.16	0.13	3.33	5.26
Barron River	64	7.35	5.95	20.35	10.29
Indian Key Pass	65	19.49	6.72	28.07	5.51
Indian Key	66	22.55	5.80	29.27	4.44
West Pass	67	22.91	5.97	30.36	3.92
Panther Key	68	23.55	7.15	30.48	3.79
Faka Union Pass	69	17.62	8.37	28.39	6.07
Faka Union River	70	5.15	5.12	19.23	10.42
White Horse Key	71	24.56	6.49	31.28	3.32
Dismal Key	72	22.10	7.17	30.41	4.41
Gullivan Bay	73	27.45	5.38	32.60	2.72
Shell Key	74	26.34	7.10	32.41	2.74
Blackwater River	75	22.45	9.78	31.30	3.58
All Stations		13.54	2.47	22.43	3.18

Table 17a: Ten Thousand Islands Bottom Salinity (ppt)

Station Name	Station Number	N POR	Min POR	Max POR	Mean POR	S.D. POR	Coef. Var. POR
Chokoloskee	51	28	1.00	34.70	19.04	9.74	0.51
Rabbit Key Pass	52	28	5.40	34.20	24.03	6.44	0.27
Lopez Bay	53	28	0.70	34.60	17.58	10.55	0.60
Lopez River	54	28	0.50	34.10	12.73	10.97	0.86
Sunday Bay	55	28	0.30	33.10	9.63	10.20	1.06
Huston Bay	56	28	0.30	31.90	9.20	9.59	1.04
Upper Chatham R.	57	28	1.50	31.50	9.55	8.72	0.91
Middle Chatham R.	58	28	1.40	31.80	11.26	9.68	0.86
Gun Rock Pt.	59	28	1.90	32.40	22.06	7.59	0.34
Oyster Bay	60	27	0.80	32.10	9.14	9.49	1.04
Chevelier Bay	61	27	1.60	29.80	8.17	7.16	0.88
Alligator Bay	62	27	0.40	16.30	2.88	3.55	1.23
Lostman's Five Bay	63	27	0.00	14.80	1.64	3.63	2.21
Barron River	64	28	0.30	34.20	17.33	10.38	0.60
Indian Key Pass	65	28	8.90	34.30	24.95	6.17	0.25
Indian Key	66	28	12.40	34.30	27.44	4.86	0.18
West Pass	67	28	13.40	34.00	27.35	5.17	0.19
Panther Key	68	28	18.30	34.30	28.36	4.50	0.16
Faka Union Pass	69	28	4.10	34.50	24.38	7.76	0.32
Faka Union River	70	28	0.10	33.40	15.46	11.58	0.75
White Horse Key	71	28	11.60	34.60	28.16	5.89	0.21
Dismal Key	72	28	8.60	34.80	26.42	6.61	0.25
Gullivan Bay	73	28	19.40	35.40	30.25	4.24	0.14
Shell Key	74	28	11.60	35.20	29.57	5.38	0.18
Blackwater River	75	28	1.40	35.20	27.38	7.55	0.28
All Stations		25	0.00	35.40	18.56	2.47	0.13

POR = Period of Record as indicated on Table 1.

Table 17b: Ten Thousand Islands Bottom Salinity (ppt)

Station Name	Station Number	Mean 1995	S.D. 1995	Mean 1996	S.D. 1996
Chokoloskee	51	14.53	9.87	25.68	6.69
Rabbit Key Pass	52	20.30	6.41	28.12	4.61
Lopez Bay	53	13.26	8.95	23.88	9.11
Lopez River	54	7.90	7.61	19.44	10.86
Sunday Bay	55	4.23	4.21	16.23	11.04
Huston Bay	56	4.11	4.74	15.30	10.40
Upper Chatham R.	57	5.30	4.40	14.99	9.89
Middle Chatham R.	58	7.00	6.98	17.34	9.76
Gun Rock Pt.	59	19.16	8.04	26.43	3.13
Oyster Bay	60	3.74	4.15	14.98	10.53
Chevelier Bay	61	4.51	2.36	12.57	8.66
Alligator Bay	62	1.33	0.65	4.86	4.94
Lostman's Five Bay	63	0.17	0.12	3.53	5.23
Barron River	64	8.95	6.78	23.92	9.56
Indian Key Pass	65	20.85	5.78	28.62	5.11
Indian Key	66	24.58	5.05	29.83	4.28
West Pass	67	23.74	5.32	30.40	3.82
Panther Key	68	25.87	4.65	31.04	3.42
Faka Union Pass	69	19.09	7.86	28.90	5.69
Faka Union River	70	8.25	8.33	21.45	10.57
White Horse Key	71	25.66	5.50	31.63	3.09
Dismal Key	72	22.58	6.93	30.33	4.72
Gullivan Bay	73	27.73	4.83	32.65	2.72
Shell Key	74	26.67	6.70	32.50	2.65
Blackwater River	75	23.01	9.67	31.48	3.30
All Stations		14.50	2.48	23.04	3.08

Table 18a: Ten Thousand Islands Surface Dissolved Oxygen (mg/l)

Station Name	Station Number	N POR	Min POR	Max POR	Mean POR	S.D. POR	Coef. Var. POR
Chokoloskee	51	28	3.70	8.70	5.43	1.36	0.25
Rabbit Key Pass	52	28	4.20	10.10	6.73	1.40	0.21
Lopez Bay	53	28	3.70	8.00	5.43	1.27	0.23
Lopez River	54	28	3.20	8.30	5.18	1.25	0.24
Sunday Bay	55	28	2.80	9.20	5.84	1.54	0.26
Huston Bay	56	28	4.40	8.80	6.33	1.33	0.21
Upper Chatham R.	57	28	3.80	10.30	5.85	1.52	0.26
Middle Chatham R.	58	28	3.80	8.90	5.78	1.40	0.24
Gun Rock Pt.	59	28	4.00	9.50	6.15	1.36	0.22
Oyster Bay	60	27	4.40	9.50	6.53	1.28	0.20
Chevelier Bay	61	27	4.40	10.20	6.66	1.40	0.21
Alligator Bay	62	27	4.90	9.40	7.27	1.28	0.18
Lostman's Five Bay	63	27	2.70	9.30	5.06	1.59	0.31
Barron River	64	28	1.80	7.60	4.46	1.51	0.34
Indian Key Pass	65	28	3.80	7.40	5.44	1.07	0.20
Indian Key	66	28	4.10	8.40	6.04	1.15	0.19
West Pass	67	28	3.80	7.40	5.94	1.10	0.18
Panther Key	68	28	3.90	8.70	6.10	1.21	0.20
Faka Union Pass	69	28	2.90	12.10	5.43	1.76	0.32
Faka Union River	70	28	2.20	11.60	5.07	1.94	0.38
White Horse Key	71	28	4.10	8.20	6.04	1.27	0.21
Dismal Key	72	28	3.10	8.00	5.36	1.27	0.24
Gullivan Bay	73	28	4.00	8.20	6.40	1.26	0.20
Shell Key	74	28	3.10	9.90	5.69	1.66	0.29
Blackwater River	75	28	2.00	10.30	5.53	1.79	0.32
All Stations		25	1.80	12.10	5.83	0.22	0.04

POR = Period of Record as indicated on Table 1.

Table 18b: Ten Thousand Islands Surface Dissolved Oxygen (mg/l)

Station Name	Station Number	Mean 1995	S.D. 1995	Mean 1996	S.D. 1996
Chokoloskee	51	5.76	1.59	5.30	1.22
Rabbit Key Pass	52	7.13	1.59	6.75	1.01
Lopez Bay	53	5.88	1.53	5.30	1.04
Lopez River	54	5.67	1.64	4.91	0.84
Sunday Bay	55	6.46	1.93	5.43	1.18
Huston Bay	56	6.73	1.73	6.30	1.00
Upper Chatham R.	57	6.47	2.02	5.63	0.96
Middle Chatham R.	58	6.34	1.80	5.56	0.98
Gun Rock Pt.	59	6.47	1.76	6.23	0.93
Oyster Bay	60	7.06	1.60	6.10	0.95
Chevelier Bay	61	7.16	1.70	6.53	1.04
Alligator Bay	62	7.85	1.08	7.27	1.19
Lostman's Five Bay	63	5.09	2.03	5.41	1.15
Barron River	64	4.42	1.86	4.60	1.33
Indian Key Pass	65	5.91	1.19	5.29	0.92
Indian Key	66	6.42	1.10	5.87	1.19
West Pass	67	6.22	0.97	5.78	1.11
Panther Key	68	6.48	1.25	5.89	1.07
Faka Union Pass	69	5.86	2.50	5.30	1.04
Faka Union River	70	5.25	2.55	5.21	1.54
White Horse Key	71	6.28	1.29	6.13	1.06
Dismal Key	72	5.80	1.45	5.27	0.84
Gullivan Bay	73	6.75	1.10	6.26	1.04
Shell Key	74	5.66	1.45	6.07	1.84
Blackwater River	75	5.83	2.40	5.67	1.26
All Stations		6.20	0.44	5.76	0.22

Table 19a: Ten Thousand Islands Bottom Dissolved Oxygen (mg/l)

Station Name	Station Number	N POR	Min POR	Max POR	Mean POR	S.D. POR	Coef. Var. POR
Chokoloskee	51	28	2.20	8.40	5.16	1.51	0.29
Rabbit Key Pass	52	28	4.10	11.00	6.83	1.51	0.22
Lopez Bay	53	28	3.40	8.20	5.31	1.25	0.24
Lopez River	54	28	3.10	8.00	5.28	1.31	0.25
Sunday Bay	55	28	3.20	9.20	5.87	1.47	0.25
Huston Bay	56	28	4.30	8.80	6.30	1.34	0.21
Upper Chatham R.	57	28	3.50	10.30	5.84	1.55	0.27
Middle Chatham R.	58	28	3.60	8.90	5.81	1.41	0.24
Gun Rock Pt.	59	28	3.70	9.20	6.13	1.31	0.21
Oyster Bay	60	27	4.30	9.40	6.34	1.33	0.21
Chevelier Bay	61	27	1.20	10.60	6.24	1.95	0.31
Alligator Bay	62	27	3.10	9.60	6.86	1.74	0.25
Lostman's Five Bay	63	27	2.40	9.30	5.04	1.61	0.32
Barron River	64	28	1.80	8.10	4.42	1.49	0.34
Indian Key Pass	65	28	4.00	7.40	5.40	1.02	0.19
Indian Key	66	28	3.60	8.40	5.88	1.16	0.20
West Pass	67	28	3.90	7.60	5.96	1.20	0.20
Panther Key	68	28	3.90	8.60	5.98	1.24	0.21
Faka Union Pass	69	28	2.80	11.80	5.39	1.79	0.33
Faka Union River	70	28	2.10	12.30	5.06	2.02	0.40
White Horse Key	71	28	3.90	7.80	5.93	1.25	0.21
Dismal Key	72	28	3.20	7.50	5.39	1.27	0.24
Gullivan Bay	73	28	4.00	8.50	6.49	1.29	0.20
Shell Key	74	28	2.90	9.80	5.66	1.70	0.30
Blackwater River	75	28	1.90	9.20	5.40	1.75	0.32
All Stations		25	1.20	12.30	5.76	0.25	0.04

POR = Period of Record as indicated on Table 1.

Table 19b: Ten Thousand Islands Bottom Dissolved Oxygen (mg/l)

Station Name	Station Number	Mean 1995	S.D. 1995	Mean 1996	S.D. 1996
Chokoloskee	51	5.49	1.68	5.12	1.31
Rabbit Key Pass	52	7.23	1.77	6.83	1.02
Lopez Bay	53	5.67	1.51	5.26	1.11
Lopez River	54	5.72	1.72	5.08	0.89
Sunday Bay	55	6.37	1.91	5.68	1.03
Huston Bay	56	6.86	1.56	6.23	1.04
Upper Chatham R.	57	6.42	2.12	5.64	0.91
Middle Chatham R.	58	6.28	1.84	5.64	1.04
Gun Rock Pt.	59	6.34	1.71	6.32	0.82
Oyster Bay	60	6.76	1.68	6.05	1.05
Chevelier Bay	61	6.65	2.36	6.37	1.09
Alligator Bay	62	7.05	2.05	7.25	1.35
Lostman's Five Bay	63	4.98	2.11	5.42	1.07
Barron River	64	4.50	1.82	4.58	1.35
Indian Key Pass	65	5.78	1.06	5.33	0.97
Indian Key	66	6.20	0.93	5.83	1.20
West Pass	67	6.16	1.02	5.89	1.20
Panther Key	68	6.35	1.30	5.80	1.08
Faka Union Pass	69	5.77	2.41	5.35	1.12
Faka Union River	70	5.22	2.79	5.05	1.25
White Horse Key	71	6.26	1.25	5.86	1.01
Dismal Key	72	5.73	1.39	5.41	0.94
Gullivan Bay	73	6.85	0.84	6.38	1.26
Shell Key	74	5.61	1.52	6.03	1.81
Blackwater River	75	5.64	2.23	5.60	1.43
All Stations		6.08	0.49	5.76	0.21

Table 20a: Ten Thousand Islands Surface Temperature (oC)

Station Name	Station Number	N POR	Min POR	Max POR	Mean POR	S.D. POR	Coef. Var. POR
Chokoloskee	51	28	15.00	30.50	25.40	4.08	0.16
Rabbit Key Pass	52	28	16.20	31.60	26.15	4.22	0.16
Lopez Bay	53	28	16.30	30.60	25.83	3.80	0.15
Lopez River	54	28	15.90	30.60	25.75	3.83	0.15
Sunday Bay	55	28	15.20	31.20	25.73	3.86	0.15
Huston Bay	56	28	15.60	31.10	25.88	3.97	0.15
Upper Chatham R.	57	28	16.90	31.00	25.89	3.89	0.15
Middle Chatham R.	58	28	16.70	30.70	25.91	3.89	0.15
Gun Rock Pt.	59	28	16.80	32.30	26.09	4.01	0.15
Oyster Bay	60	27	16.10	31.80	25.92	3.95	0.15
Chevelier Bay	61	27	16.70	31.70	26.34	3.96	0.15
Alligator Bay	62	27	17.20	32.70	26.50	3.99	0.15
Lostman's Five Bay	63	27	16.30	31.90	26.36	3.95	0.15
Barron River	64	28	17.60	31.00	25.55	3.58	0.14
Indian Key Pass	65	28	18.30	30.60	25.65	3.69	0.14
Indian Key	66	28	18.30	30.50	25.83	3.74	0.14
West Pass	67	28	18.20	30.40	25.68	3.77	0.15
Panther Key	68	28	18.00	30.60	25.61	3.81	0.15
Faka Union Pass	69	28	18.40	30.20	25.58	3.68	0.14
Faka Union River	70	28	18.60	30.10	25.38	3.32	0.13
White Horse Key	71	28	18.40	31.00	25.84	3.91	0.15
Dismal Key	72	28	18.30	30.80	25.76	3.86	0.15
Gullivan Bay	73	28	18.00	31.60	25.90	3.90	0.15
Shell Key	74	28	18.40	30.70	25.65	3.86	0.15
Blackwater River	75	28	19.90	31.80	26.35	3.74	0.14
All Stations		25	15.00	32.70	25.86	0.17	0.01

POR = Period of Record as indicated on Table 1.

Table 20b: Ten Thousand Islands Surface Temperature (oC)

Station Name	Station Number	Mean 1995	S.D. 1995	Mean 1996	S.D. 1996
Chokoloskee	51	25.21	5.07	25.58	3.52
Rabbit Key Pass	52	25.65	5.32	26.23	3.87
Lopez Bay	53	25.35	4.89	26.09	3.26
Lopez River	54	25.34	4.99	25.99	3.20
Sunday Bay	55	25.28	5.15	26.16	3.03
Huston Bay	56	25.38	5.30	26.23	3.09
Upper Chatham R.	57	25.52	5.03	26.03	3.38
Middle Chatham R.	58	25.45	5.00	26.12	3.40
Gun Rock Pt.	59	25.93	5.16	25.96	3.59
Oyster Bay	60	25.42	5.07	26.33	3.23
Chevelier Bay	61	25.66	4.90	26.71	3.58
Alligator Bay	62	26.02	5.10	26.85	3.53
Lostman's Five Bay	63	25.77	5.07	26.82	3.37
Barron River	64	24.85	4.61	25.91	2.97
Indian Key Pass	65	25.19	4.63	25.78	3.47
Indian Key	66	25.30	4.71	26.07	3.55
West Pass	67	25.11	4.68	25.87	3.63
Panther Key	68	25.05	4.73	25.79	3.63
Faka Union Pass	69	24.93	4.49	25.83	3.54
Faka Union River	70	24.62	3.96	25.87	3.23
White Horse Key	71	25.21	4.76	26.17	3.79
Dismal Key	72	25.17	4.75	25.99	3.69
Gullivan Bay	73	25.23	4.85	26.25	3.59
Shell Key	74	25.13	4.76	25.84	3.72
Blackwater River	75	25.64	4.54	26.76	3.55
All Stations		25.34	0.30	26.13	0.23

Table 21a: Ten Thousand Islands Bottom Temperature (oC)

Station Name	Station Number	N POR	Min POR	Max POR	Mean POR	S.D. POR	Coef. Var. POR
Chokoloskee	51	28	15.00	30.10	25.43	4.12	0.16
Rabbit Key Pass	52	28	16.70	31.60	26.10	4.16	0.16
Lopez Bay	53	28	16.30	30.50	25.80	3.88	0.15
Lopez River	54	28	15.80	30.60	25.71	3.87	0.15
Sunday Bay	55	28	15.20	30.60	25.64	3.86	0.15
Huston Bay	56	28	15.60	31.00	25.82	3.95	0.15
Upper Chatham R.	57	28	16.90	31.00	25.87	3.90	0.15
Middle Chatham R.	58	28	16.60	30.70	25.90	3.89	0.15
Gun Rock Pt.	59	28	16.80	31.20	25.87	4.04	0.16
Oyster Bay	60	27	16.10	30.50	25.72	3.82	0.15
Chevelier Bay	61	27	16.60	31.20	26.14	3.88	0.15
Alligator Bay	62	27	17.20	31.60	26.14	3.72	0.14
Lostman's Five Bay	63	27	16.30	32.00	26.29	3.94	0.15
Barron River	64	28	17.60	30.60	25.58	3.60	0.14
Indian Key Pass	65	28	18.40	30.30	25.62	3.70	0.14
Indian Key	66	28	18.00	30.40	25.59	3.78	0.15
West Pass	67	28	18.20	30.40	25.60	3.73	0.15
Panther Key	68	28	18.00	30.40	25.66	3.89	0.15
Faka Union Pass	69	28	18.40	30.10	25.53	3.70	0.15
Faka Union River	70	28	18.60	30.10	25.33	3.30	0.13
White Horse Key	71	28	18.20	30.50	25.70	3.81	0.15
Dismal Key	72	28	18.00	30.90	25.60	3.86	0.15
Gullivan Bay	73	28	18.00	31.00	25.77	3.86	0.15
Shell Key	74	28	18.20	30.50	25.55	3.84	0.15
Blackwater River	75	28	19.20	31.30	26.18	3.72	0.14
All Stations		25	15.00	32.00	25.77	0.17	0.01

POR = Period of Record as indicated on Table 1.

Table 21b: Ten Thousand Islands Bottom Temperature (oC)

Station Name	Station Number	Mean 1995	S.D. 1995	Mean 1996	S.D. 1996
Chokoloskee	51	25.23	5.12	25.55	3.57
Rabbit Key Pass	52	25.62	5.16	26.19	3.92
Lopez Bay	53	25.33	5.04	26.03	3.29
Lopez River	54	25.31	5.04	25.90	3.23
Sunday Bay	55	25.21	5.16	25.89	2.96
Huston Bay	56	25.40	5.25	26.09	3.10
Upper Chatham R.	57	25.52	5.03	26.01	3.39
Middle Chatham R.	58	25.45	5.01	26.10	3.38
Gun Rock Pt.	59	25.43	5.05	25.88	3.71
Oyster Bay	60	25.32	4.97	25.96	3.01
Chevelier Bay	61	25.61	4.91	26.48	3.36
Alligator Bay	62	25.54	4.55	26.51	3.46
Lostman's Five Bay	63	25.76	5.06	26.65	3.32
Barron River	64	24.84	4.55	25.83	3.18
Indian Key Pass	65	25.11	4.49	25.73	3.61
Indian Key	66	25.08	4.62	25.74	3.63
West Pass	67	25.04	4.59	25.82	3.58
Panther Key	68	24.95	4.64	25.64	3.69
Faka Union Pass	69	24.97	4.51	25.68	3.54
Faka Union River	70	24.68	4.04	25.68	3.11
White Horse Key	71	25.08	4.67	25.97	3.70
Dismal Key	72	25.11	4.79	25.73	3.65
Gullivan Bay	73	25.15	4.75	26.09	3.67
Shell Key	74	25.08	4.74	25.67	3.68
Blackwater River	75	25.47	4.56	26.59	3.47
All Stations		25.25	0.29	25.98	0.25

Table 1: Biscayne Bay Station Summary

Station Name	Station Number	Latitude	Longitude	Period of Record	Surveys
Convoy Point	101	25.4783	80.3208	Sept 93 - Dec 96	31-70
Black Point	102	25.5458	80.2947	Sept 93 - Dec 96	31-70
Near Black Ledge	103	25.5733	80.2867	Sept 93 - Dec 96	31-70
BNP Marker "C"	104	25.6017	80.2208	Sept 93 - Dec 96	31-70
Bisc. Channel, G-21	105	25.6542	80.1867	Sept 93 - May 96	31-63
Bisc. Channel, FWT	106	25.6342	80.1300	Sept 93 - May 96	31-63
Fowey Rocks	107	25.5900	80.1000	Sept 93 - May 96	31-63
Marker G-1B	108	25.5692	80.1925	Sept 93 - Dec 96	31-70
North Midbay	109	25.5642	80.2350	Sept 93 - Dec 96	31-70
Fender Point	110	25.5050	80.2875	Sept 93 - Dec 96	31-70
Featherbed Bank	111	25.5158	80.2400	Sept 93 - Dec 96	31-70
Sands Cut	112	25.4883	80.1883	Sept 93 - Dec 96	31-70
Elliott Key	113	25.4417	80.2233	Sept 93 - Dec 96	31-70
Caesar Creek, R-20	114	25.3850	80.1917	Sept 93 - May 96	31-63
Adams Key	115	25.4042	80.2408	Sept 93 - May 96	31-63
Rubicon Keys	116	25.4000	80.2550	Sept 93 - Dec 96	31-70
Totten Key	117	25.3850	80.2650	Sept 93 - May 96	31-63
Broad Creek	118	25.3483	80.2550	Sept 93 - May 96	31-63
Pumpkin Key	119	25.3183	80.3033	Sept 93 - May 96	31-63
Card Bank, G-17	120	25.3142	80.3433	Sept 93 - May 96	31-63
North Card Sound	121	25.3550	80.2917	Sept 93 - Dec 96	31-70
West Arsenicker	122	25.4202	80.3108	Sept 93 - Dec 96	31-70
Pelican Bank	123	25.4450	80.2833	Sept 93 - Dec 96	31-70
South Midbay	124	25.4725	80.2333	Sept 93 - Dec 96	31-70
Turkey Point Channe	125	25.4700	80.2833	Sept 93 - May 96	31-63
BNP Marker "B"	126	25.6717	80.2050	June 96 - Dec 96	64-70
Shoal Point	127	25.6300	80.2500	June 96 - Dec 96	64-70
Matheson Beach	128	25.6883	80.2333	June 96 - Dec 96	64-70
Marker G-71	129	25.7367	80.1850	June 96 - Dec 96	64-70
South Dodge Island	130	25.7633	80.1717	June 96 - Dec 96	64-70
North Venetian Basin	131	25.8000	80.1667	June 96 - Dec 96	64-70
North I-195 Basin	132	25.8167	80.1667	June 96 - Dec 96	64-70
North Normandy Isle	133	25.8667	80.1500	June 96 - Dec 96	64-70
Oleta River Park	134	25.9050	80.1333	June 96 - Dec 96	64-70
South Card Sound	135	25.3167	80.3167	June 96 - Dec 96	64-70

Table 2a: Biscayne Bay Nitrate+Nitrite (mg/l of N)

Station Name	Station Number	N POR	Min POR	Max POR	Mean POR	S.D. POR	Coef. Var. POR
Convoy Point	101	40	0.0006	0.8349	0.1257	0.2041	1.6239
Black Point	102	40	0.0007	0.7430	0.0909	0.1497	1.6472
Near Black Ledge	103	40	0.0010	0.2656	0.0480	0.0690	1.4389
BNP Marker "C"	104	40	0.0011	0.0503	0.0094	0.0109	1.1526
Bisc. Channel, G-21	105	33	0.0008	0.0485	0.0105	0.0111	1.0582
Bisc. Channel, FWT	106	33	0.0002	0.0345	0.0050	0.0064	1.2953
Fowey Rocks	107	33	0.0002	0.0076	0.0021	0.0014	0.6898
Marker G-1B	108	40	0.0002	0.0151	0.0032	0.0027	0.8312
North Midbay	109	40	0.0006	0.0538	0.0091	0.0109	1.1940
Fender Point	110	40	0.0023	0.6644	0.0952	0.1414	1.4842
Featherbed Bank	111	40	0.0009	0.1398	0.0117	0.0248	2.1255
Sands Cut	112	40	0.0004	0.0128	0.0033	0.0025	0.7396
Elliott Key	113	40	0.0019	0.0505	0.0109	0.0097	0.8893
Caesar Creek, R-20	114	33	0.0002	0.0172	0.0030	0.0032	1.0779
Adams Key	115	33	0.0009	0.0488	0.0112	0.0090	0.8027
Rubicon Keys	116	40	0.0027	0.0464	0.0121	0.0084	0.6930
Totten Key	117	33	0.0029	0.0820	0.0172	0.0163	0.9478
Broad Creek	118	33	0.0005	0.0637	0.0096	0.0110	1.1488
Pumpkin Key	119	33	0.0016	0.1060	0.0248	0.0231	0.9309
Card Bank, G-17	120	33	0.0015	0.1060	0.0275	0.0216	0.7865
North Card Sound	121	40	0.0017	0.1153	0.0199	0.0241	1.2137
West Arsenicker	122	40	0.0008	0.3116	0.0326	0.0568	1.7429
Pelican Bank	123	40	0.0029	0.1470	0.0408	0.0371	0.9098
South Midbay	124	40	0.0007	0.0941	0.0123	0.0190	1.5527
Turkey Point Channel	125	33	0.0033	0.2610	0.0506	0.0590	1.1641
BNP Marker "B"	126	7	0.0047	0.0191	0.0101	0.0063	0.6229
Shoal Point	127	7	0.0019	0.0230	0.0107	0.0081	0.7573
Matheson Beach	128	7	0.0025	0.0818	0.0230	0.0269	1.1696
Marker G-71	129	7	0.0021	0.0581	0.0174	0.0190	1.0914
South Dodge Island	130	7	0.0091	0.0556	0.0249	0.0161	0.6459
North Venetian Basin	131	7	0.0132	0.0700	0.0355	0.0201	0.5649
North I-195 Basin	132	7	0.0067	0.0789	0.0271	0.0249	0.9207
North Normandy Isle	133	7	0.0058	0.0935	0.0336	0.0326	0.9694
Oleta River Park	134	7	0.0019	0.2344	0.0511	0.0827	1.6168
South Card Sound	135	7	0.0078	0.0385	0.0224	0.0112	0.4992
All Stations		35	0.0002	0.8349	0.0269	0.0279	1.0357

POR = Period of Record as indicated on Table 1.

Table 2b: Biscayne Bay Nitrate+Nitrite (mg/l of N)

Station Name	Station Number	Mean 1994	S.D. 1994	Mean 1995	S.D. 1995	Mean 1996	S.D. 1996
Convoy Point	101	0.0993	0.1164	0.1440	0.1879	0.0963	0.2206
Black Point	102	0.1560	0.2345	0.0880	0.0928	0.0338	0.0526
Near Black Ledge	103	0.0749	0.1014	0.0597	0.0477	0.0111	0.0189
BNP Marker "C"	104	0.0139	0.0159	0.0080	0.0043	0.0062	0.0098
Bisc. Channel, G-21	105	0.0139	0.0156	0.0104	0.0083	0.0036	0.0019
Bisc. Channel, FWT	106	0.0069	0.0098	0.0045	0.0031	0.0016	0.0007
Fowey Rocks	107	0.0026	0.0017	0.0015	0.0009	0.0012	0.0012
Marker G-1B	108	0.0033	0.0012	0.0026	0.0016	0.0026	0.0027
North Midbay	109	0.0134	0.0153	0.0096	0.0097	0.0051	0.0074
Fender Point	110	0.1001	0.1254	0.1127	0.1326	0.0782	0.1868
Featherbed Bank	111	0.0122	0.0226	0.0098	0.0096	0.0151	0.0393
Sands Cut	112	0.0041	0.0031	0.0030	0.0013	0.0029	0.0029
Elliott Key	113	0.0124	0.0145	0.0110	0.0063	0.0079	0.0051
Caesar Creek, R-20	114	0.0045	0.0047	0.0017	0.0010	0.0022	0.0024
Adams Key	115	0.0136	0.0130	0.0104	0.0047	0.0051	0.0033
Rubicon Keys	116	0.0145	0.0118	0.0122	0.0058	0.0088	0.0064
Totten Key	117	0.0214	0.0237	0.0169	0.0101	0.0055	0.0023
Broad Creek	118	0.0134	0.0167	0.0088	0.0054	0.0038	0.0037
Pumpkin Key	119	0.0343	0.0311	0.0199	0.0143	0.0077	0.0047
Card Bank, G-17	120	0.0386	0.0283	0.0218	0.0107	0.0097	0.0107
North Card Sound	121	0.0242	0.0276	0.0149	0.0092	0.0172	0.0317
West Arsenicker	122	0.0556	0.0865	0.0297	0.0409	0.0202	0.0365
Pelican Bank	123	0.0518	0.0499	0.0410	0.0350	0.0306	0.0282
South Midbay	124	0.0163	0.0264	0.0091	0.0073	0.0113	0.0222
Turkey Point Channel	125	0.0718	0.0835	0.0519	0.0394	0.0068	0.0035
BNP Marker "B"	126					0.0101	0.0063
Shoal Point	127					0.0107	0.0081
Matheson Beach	128					0.0230	0.0269
Marker G-71	129					0.0174	0.0190
South Dodge Island	130					0.0249	0.0161
North Venetian Basin	131					0.0355	0.0201
North I-195 Basin	132					0.0271	0.0249
North Normandy Isle	133					0.0336	0.0326
Oleta River Park	134					0.0511	0.0827
South Card Sound	135					0.0224	0.0112
All Stations		0.0349	0.0386	0.0281	0.0368	0.0186	0.0210

Table 3a: Biscayne Bay Nitrate (mg/l of N)

Station Name	Station Number	N POR	Min POR	Max POR	Mean POR	S.D. POR	Coef. Var. POR
Convoy Point	101	40	0.0000	0.8129	0.1200	0.1986	1.6557
Black Point	102	40	0.0000	0.7270	0.0853	0.1447	1.6968
Near Black Ledge	103	40	0.0000	0.2496	0.0446	0.0659	1.4766
BNP Marker "C"	104	40	0.0000	0.0462	0.0076	0.0103	1.3487
Bisc. Channel, G-21	105	33	0.0000	0.0438	0.0086	0.0102	1.1953
Bisc. Channel, FWT	106	33	0.0000	0.0307	0.0037	0.0058	1.5736
Fowey Rocks	107	33	0.0000	0.0058	0.0012	0.0012	0.9396
Marker G-1B	108	40	0.0000	0.0126	0.0021	0.0023	1.0974
North Midbay	109	40	0.0000	0.0499	0.0073	0.0103	1.4019
Fender Point	110	40	0.0012	0.6459	0.0905	0.1374	1.5180
Featherbed Bank	111	40	0.0000	0.1343	0.0099	0.0240	2.4196
Sands Cut	112	40	0.0000	0.0103	0.0022	0.0022	0.9713
Elliott Key	113	40	0.0015	0.0482	0.0094	0.0093	0.9850
Caesar Creek, R-20	114	33	0.0000	0.0146	0.0019	0.0029	1.5210
Adams Key	115	33	0.0002	0.0454	0.0095	0.0085	0.8944
Rubicon Keys	116	40	0.0017	0.0425	0.0103	0.0078	0.7599
Totten Key	117	33	0.0025	0.0757	0.0150	0.0152	1.0128
Broad Creek	118	33	0.0000	0.0585	0.0078	0.0102	1.3134
Pumpkin Key	119	33	0.0009	0.0933	0.0208	0.0201	0.9662
Card Bank, G-17	120	33	0.0008	0.0921	0.0232	0.0188	0.8095
North Card Sound	121	40	0.0009	0.1115	0.0171	0.0218	1.2738
West Arsenicker	122	40	0.0001	0.2981	0.0298	0.0548	1.8383
Pelican Bank	123	40	0.0022	0.1394	0.0377	0.0357	0.9477
South Midbay	124	40	0.0003	0.0903	0.0105	0.0185	1.7604
Turkey Point Channel	125	33	0.0026	0.2526	0.0471	0.0574	1.2191
BNP Marker "B"	126	7	0.0030	0.0160	0.0083	0.0056	0.6785
Shoal Point	127	7	0.0007	0.0197	0.0086	0.0074	0.8644
Matheson Beach	128	7	0.0014	0.0795	0.0210	0.0267	1.2670
Marker G-71	129	7	0.0012	0.0502	0.0149	0.0166	1.1151
South Dodge Island	130	7	0.0076	0.0475	0.0218	0.0137	0.6290
North Venetian Basin	131	7	0.0112	0.0640	0.0323	0.0185	0.5729
North I-195 Basin	132	7	0.0051	0.0716	0.0242	0.0230	0.9526
North Normandy Isle	133	7	0.0039	0.0827	0.0295	0.0293	0.9945
Oleta River Park	134	7	0.0010	0.1741	0.0402	0.0611	1.5209
South Card Sound	135	7	0.0068	0.0351	0.0202	0.0104	0.5139
All Stations		35	0.0000	0.8129	0.0241	0.0266	1.1036

POR = Period of Record as indicated on Table 1.

Table 3b: Biscayne Bay Nitrate (mg/l of N)

Station Name	Station Number	Mean 1994	S.D. 1994	Mean 1995	S.D. 1995	Mean 1996	S.D. 1996
Convoy Point	101	0.0935	0.1110	0.1367	0.1805	0.0930	0.0935
Black Point	102	0.1480	0.2278	0.0824	0.0890	0.0307	0.0489
Near Black Ledge	103	0.0703	0.0966	0.0562	0.0458	0.0091	0.0167
BNP Marker "C"	104	0.0118	0.0152	0.0062	0.0037	0.0048	0.0092
Bisc. Channel, G-21	105	0.0117	0.0146	0.0087	0.0075	0.0027	0.0019
Bisc. Channel, FWT	106	0.0053	0.0089	0.0035	0.0027	0.0008	0.0008
Fowey Rocks	107	0.0016	0.0015	0.0011	0.0009	0.0005	0.0012
Marker G-1B	108	0.0020	0.0009	0.0018	0.0013	0.0017	0.0023
North Midbay	109	0.0112	0.0145	0.0081	0.0091	0.0038	0.0069
Fender Point	110	0.0951	0.1218	0.1078	0.1285	0.0746	0.1819
Featherbed Bank	111	0.0102	0.0218	0.0084	0.0091	0.0135	0.0381
Sands Cut	112	0.0028	0.0028	0.0021	0.0011	0.0021	0.0026
Elliott Key	113	0.0108	0.0140	0.0098	0.0060	0.0067	0.0048
Caesar Creek, R-20	114	0.0031	0.0043	0.0011	0.0009	0.0015	0.0023
Adams Key	115	0.0115	0.0124	0.0090	0.0047	0.0042	0.0032
Rubicon Keys	116	0.0123	0.0111	0.0108	0.0055	0.0076	0.0062
Totten Key	117	0.0188	0.0223	0.0153	0.0097	0.0048	0.0022
Broad Creek	118	0.0111	0.0157	0.0076	0.0051	0.0031	0.0035
Pumpkin Key	119	0.0292	0.0273	0.0176	0.0132	0.0065	0.0043
Card Bank, G-17	120	0.0330	0.0248	0.0188	0.0098	0.0083	0.0100
North Card Sound	121	0.0199	0.0229	0.0133	0.0087	0.0158	0.0309
West Arsenicker	122	0.0514	0.0832	0.0278	0.0400	0.0184	0.0352
Pelican Bank	123	0.0480	0.0480	0.0387	0.0340	0.0287	0.0273
South Midbay	124	0.0141	0.0258	0.0079	0.0071	0.0102	0.0215
Turkey Point Channel	125	0.0678	0.0816	0.0491	0.0383	0.0058	0.0030
BNP Marker "B"	126					0.0083	0.0056
Shoal Point	127					0.0086	0.0074
Matheson Beach	128					0.0210	0.0267
Marker G-71	129					0.0149	0.0166
South Dodge Island	130					0.0218	0.0137
North Venetian Basin	131					0.0323	0.0185
North I-195 Basin	132					0.0242	0.0230
North Normandy Isle	133					0.0295	0.0293
Oleta River Park	134					0.0402	0.0611
South Card Sound	135					0.0202	0.0104
All Stations		0.0318	0.0370	0.0260	0.0353		

Table 4a: Biscayne Bay Nitrite (mg/l of N)

Station Name	Station Number	N POR	Min POR	Max POR	Mean POR	S.D. POR	Coef. Var. POR
Convoy Point	101	40	0.0004	0.0319	0.0057	0.0069	1.2108
Black Point	102	40	0.0005	0.0240	0.0056	0.0059	1.0556
Near Black Ledge	103	40	0.0006	0.0160	0.0033	0.0033	1.0025
BNP Marker "C"	104	40	0.0006	0.0041	0.0018	0.0008	0.4475
Bisc. Channel, G-21	105	33	0.0006	0.0047	0.0019	0.0010	0.5311
Bisc. Channel, FWT	106	33	0.0002	0.0038	0.0013	0.0008	0.6301
Fowey Rocks	107	33	0.0002	0.0022	0.0008	0.0005	0.5940
Marker G-1B	108	40	0.0002	0.0025	0.0011	0.0005	0.4677
North Midbay	109	40	0.0006	0.0039	0.0018	0.0009	0.4840
Fender Point	110	40	0.0006	0.0185	0.0047	0.0043	0.9001
Featherbed Bank	111	40	0.0005	0.0055	0.0017	0.0010	0.5828
Sands Cut	112	40	0.0003	0.0025	0.0011	0.0005	0.4946
Elliott Key	113	40	0.0002	0.0039	0.0015	0.0008	0.5390
Caesar Creek, R-20	114	33	0.0001	0.0026	0.0011	0.0007	0.5944
Adams Key	115	33	0.0007	0.0040	0.0017	0.0009	0.5057
Rubicon Keys	116	40	0.0007	0.0062	0.0018	0.0011	0.5985
Totten Key	117	33	0.0005	0.0062	0.0022	0.0015	0.6849
Broad Creek	118	33	0.0005	0.0053	0.0018	0.0011	0.6126
Pumpkin Key	119	33	0.0007	0.0142	0.0040	0.0039	0.9666
Card Bank, G-17	120	33	0.0007	0.0139	0.0043	0.0033	0.7698
North Card Sound	121	40	0.0006	0.0189	0.0027	0.0032	1.1753
West Arsenicker	122	40	0.0003	0.0135	0.0028	0.0024	0.8535
Pelican Bank	123	40	0.0007	0.0101	0.0031	0.0022	0.6960
South Midbay	124	40	0.0003	0.0057	0.0018	0.0013	0.7243
Turkey Point Channel	125	33	0.0007	0.0110	0.0036	0.0026	0.7419
BNP Marker "B"	126	7	0.0011	0.0031	0.0018	0.0008	0.4280
Shoal Point	127	7	0.0012	0.0033	0.0022	0.0008	0.3773
Matheson Beach	128	7	0.0011	0.0030	0.0020	0.0007	0.3347
Marker G-71	129	7	0.0009	0.0079	0.0026	0.0025	0.9609
South Dodge Island	130	7	0.0015	0.0081	0.0031	0.0024	0.7770
North Venetian Basin	131	7	0.0019	0.0060	0.0032	0.0016	0.5006
North I-195 Basin	132	7	0.0016	0.0073	0.0029	0.0020	0.6896
North Normandy Isle	133	7	0.0015	0.0109	0.0042	0.0034	0.8032
Oleta River Park	134	7	0.0009	0.0603	0.0109	0.0218	1.9953
South Card Sound	135	7	0.0010	0.0034	0.0022	0.0009	0.4195
All Stations		35	0.0001	0.0603	0.0028	0.0019	0.6713

POR = Period of Record as indicated on Table 1.

Table 4b: Biscayne Bay Nitrite (mg/l of N)

Station Name	Station Number	Mean 1994	S.D. 1994	Mean 1995	S.D. 1995	Mean 1996	S.D. 1996
Convoy Point	101	0.0059	0.0062	0.0072	0.0090	0.0033	0.0037
Black Point	102	0.0080	0.0084	0.0057	0.0043	0.0031	0.0037
Near Black Ledge	103	0.0045	0.0050	0.0035	0.0020	0.0020	0.0022
BNP Marker "C"	104	0.0020	0.0009	0.0018	0.0007	0.0014	0.0007
Bisc. Channel, G-21	105	0.0022	0.0012	0.0017	0.0008	0.0009	0.0001
Bisc. Channel, FWT	106	0.0015	0.0010	0.0010	0.0006	0.0008	0.0003
Fowey Rocks	107	0.0010	0.0003	0.0005	0.0002	0.0007	0.0003
Marker G-1B	108	0.0013	0.0004	0.0008	0.0004	0.0010	0.0004
North Midbay	109	0.0022	0.0009	0.0015	0.0007	0.0013	0.0007
Fender Point	110	0.0050	0.0038	0.0049	0.0044	0.0036	0.0050
Featherbed Bank	111	0.0019	0.0009	0.0014	0.0006	0.0016	0.0014
Sands Cut	112	0.0014	0.0005	0.0009	0.0004	0.0007	0.0003
Elliott Key	113	0.0016	0.0006	0.0012	0.0005	0.0011	0.0005
Caesar Creek, R-20	114	0.0014	0.0006	0.0007	0.0004	0.0007	0.0002
Adams Key	115	0.0020	0.0008	0.0013	0.0004	0.0009	0.0001
Rubicon Keys	116	0.0022	0.0008	0.0014	0.0006	0.0011	0.0003
Totten Key	117	0.0026	0.0015	0.0016	0.0007	0.0007	0.0002
Broad Creek	118	0.0022	0.0011	0.0013	0.0005	0.0007	0.0002
Pumpkin Key	119	0.0051	0.0040	0.0023	0.0012	0.0012	0.0004
Card Bank, G-17	120	0.0055	0.0038	0.0030	0.0012	0.0014	0.0007
North Card Sound	121	0.0042	0.0050	0.0016	0.0006	0.0014	0.0009
West Arsenicker	122	0.0042	0.0035	0.0019	0.0011	0.0019	0.0015
Pelican Bank	123	0.0038	0.0021	0.0024	0.0012	0.0019	0.0010
South Midbay	124	0.0022	0.0009	0.0012	0.0007	0.0010	0.0008
Turkey Point Channel	125	0.0040	0.0022	0.0028	0.0013	0.0010	0.0005
BNP Marker "B"	126					0.0018	0.0008
Shoal Point	127					0.0022	0.0008
Matheson Beach	128					0.0020	0.0007
Marker G-71	129					0.0026	0.0025
South Dodge Island	130					0.0031	0.0024
North Venetian Basin	131					0.0032	0.0016
North I-195 Basin	132					0.0029	0.0020
North Normandy Isle	133					0.0042	0.0034
Oleta River Park	134					0.0109	0.0218
South Card Sound	135					0.0022	0.0009
All Stations		0.0031	0.0018	0.0021	0.0016		

Table 5a: Biscayne Bay Ammonium (mg/l of N)

Station Name	Station Number	N POR	Min POR	Max POR	Mean POR	S.D. POR	Coef. Var. POR
Convoy Point	101	40	0.0017	0.0992	0.0201	0.0187	0.9288
Black Point	102	40	0.0032	0.1558	0.0216	0.0248	1.1500
Near Black Ledge	103	40	0.0043	0.0543	0.0150	0.0097	0.6456
BNP Marker "C"	104	40	0.0041	0.0235	0.0124	0.0050	0.4009
Bisc. Channel, G-21	105	33	0.0050	0.0214	0.0120	0.0046	0.3854
Bisc. Channel, FWT	106	33	0.0024	0.0189	0.0084	0.0042	0.5037
Fowey Rocks	107	33	0.0013	0.0193	0.0064	0.0045	0.7099
Marker G-1B	108	40	0.0021	0.0245	0.0079	0.0048	0.5986
North Midbay	109	40	0.0027	0.0233	0.0110	0.0056	0.5104
Fender Point	110	40	0.0053	0.0521	0.0218	0.0122	0.5598
Featherbed Bank	111	40	0.0041	0.0286	0.0125	0.0062	0.4987
Sands Cut	112	40	0.0023	0.0223	0.0102	0.0053	0.5224
Elliott Key	113	40	0.0076	0.0504	0.0228	0.0122	0.5333
Caesar Creek, R-20	114	33	0.0020	0.0207	0.0081	0.0051	0.6318
Adams Key	115	33	0.0046	0.0301	0.0131	0.0068	0.5209
Rubicon Keys	116	40	0.0060	0.0678	0.0152	0.0105	0.6946
Totten Key	117	33	0.0028	0.0735	0.0197	0.0153	0.7778
Broad Creek	118	33	0.0011	0.0303	0.0115	0.0074	0.6499
Pumpkin Key	119	33	0.0071	0.1213	0.0346	0.0285	0.8246
Card Bank, G-17	120	33	0.0030	0.1096	0.0360	0.0276	0.7680
North Card Sound	121	40	0.0045	0.1015	0.0219	0.0193	0.8816
West Arsenicker	122	40	0.0041	0.0391	0.0175	0.0091	0.5214
Pelican Bank	123	40	0.0047	0.0453	0.0221	0.0106	0.4768
South Midbay	124	40	0.0035	0.0593	0.0224	0.0123	0.5492
Turkey Point Channel	125	33	0.0052	0.0539	0.0222	0.0120	0.5419
BNP Marker "B"	126	7	0.0061	0.0306	0.0160	0.0081	0.5040
Shoal Point	127	7	0.0076	0.0188	0.0126	0.0037	0.2951
Matheson Beach	128	7	0.0102	0.0212	0.0157	0.0040	0.2536
Marker G-71	129	7	0.0118	0.0830	0.0307	0.0256	0.8352
South Dodge Island	130	7	0.0078	0.0802	0.0316	0.0260	0.8213
North Venetian Basin	131	7	0.0129	0.0364	0.0220	0.0089	0.4042
North I-195 Basin	132	7	0.0077	0.0317	0.0169	0.0095	0.5606
North Normandy Isle	133	7	0.0088	0.0471	0.0242	0.0162	0.6677
Oleta River Park	134	7	0.0063	0.0414	0.0164	0.0123	0.7489
South Card Sound	135	7	0.0086	0.0445	0.0221	0.0154	0.6991
All Stations		35	0.0011	0.1558	0.0181	0.0075	0.4126

POR = Period of Record as indicated on Table 1.

Table 5b: Biscayne Bay Ammonium (mg/l of N)

Station Name	Station Number	Mean 1994	S.D. 1994	Mean 1995	S.D. 1995	Mean 1996	S.D. 1996
Convoy Point	101	0.0240	0.0166	0.0130	0.0095	0.0163	0.0126
Black Point	102	0.0332	0.0405	0.0173	0.0130	0.0137	0.0099
Near Black Ledge	103	0.0196	0.0136	0.0155	0.0083	0.0093	0.0032
BNP Marker "C"	104	0.0154	0.0043	0.0121	0.0040	0.0082	0.0033
Bisc. Channel, G-21	105	0.0139	0.0044	0.0102	0.0026	0.0070	0.0013
Bisc. Channel, FWT	106	0.0105	0.0046	0.0062	0.0022	0.0058	0.0014
Fowey Rocks	107	0.0082	0.0037	0.0036	0.0030	0.0054	0.0025
Marker G-1B	108	0.0106	0.0056	0.0053	0.0030	0.0066	0.0029
North Midbay	109	0.0159	0.0035	0.0084	0.0039	0.0067	0.0028
Fender Point	110	0.0295	0.0114	0.0169	0.0083	0.0157	0.0118
Featherbed Bank	111	0.0155	0.0059	0.0111	0.0054	0.0095	0.0055
Sands Cut	112	0.0139	0.0047	0.0083	0.0046	0.0071	0.0037
Elliott Key	113	0.0243	0.0109	0.0202	0.0107	0.0188	0.0132
Caesar Creek, R-20	114	0.0102	0.0044	0.0055	0.0041	0.0050	0.0015
Adams Key	115	0.0166	0.0063	0.0098	0.0033	0.0067	0.0011
Rubicon Keys	116	0.0177	0.0058	0.0114	0.0042	0.0100	0.0043
Totten Key	117	0.0244	0.0136	0.0149	0.0077	0.0046	0.0014
Broad Creek	118	0.0165	0.0077	0.0081	0.0041	0.0036	0.0019
Pumpkin Key	119	0.0513	0.0378	0.0238	0.0136	0.0111	0.0029
Card Bank, G-17	120	0.0535	0.0337	0.0243	0.0109	0.0085	0.0034
North Card Sound	121	0.0348	0.0283	0.0149	0.0077	0.0115	0.0060
West Arsenicker	122	0.0235	0.0059	0.0129	0.0070	0.0139	0.0089
Pelican Bank	123	0.0276	0.0066	0.0202	0.0113	0.0159	0.0102
South Midbay	124	0.0298	0.0142	0.0185	0.0071	0.0153	0.0102
Turkey Point Channel	125	0.0292	0.0106	0.0179	0.0103	0.0084	0.0035
BNP Marker "B"	126					0.0160	0.0081
Shoal Point	127					0.0126	0.0037
Matheson Beach	128					0.0157	0.0040
Marker G-71	129					0.0307	0.0256
South Dodge Island	130					0.0316	0.0260
North Venetian Basin	131					0.0220	0.0089
North I-195 Basin	132					0.0169	0.0095
North Normandy Isle	133					0.0242	0.0162
Oleta River Park	134					0.0164	0.0123
South Card Sound	135					0.0221	0.0154
All Stations		0.0228	0.0117	0.0132	0.0057		

Table 6a: Biscayne Bay Total Nitrogen (mg/l of N)

Station Name	Station Number	N POR	Min POR	Max POR	Mean POR	S.D. POR	Coef. Var. POR
Convoy Point	101	40	0.2609	1.2555	0.5738	0.2440	0.4252
Black Point	102	40	0.2217	1.1476	0.5345	0.1934	0.3619
Near Black Ledge	103	40	0.1959	0.6857	0.4165	0.1393	0.3344
BNP Marker "C"	104	40	0.1501	0.4972	0.2409	0.0747	0.3102
Bisc. Channel, G-21	105	33	0.1355	0.4834	0.2382	0.0779	0.3272
Bisc. Channel, FWT	106	33	0.0939	0.4113	0.1926	0.0726	0.3768
Fowey Rocks	107	33	0.0804	0.3498	0.1567	0.0579	0.3695
Marker G-1B	108	40	0.0936	0.3141	0.1856	0.0493	0.2655
North Midbay	109	40	0.1356	0.3814	0.2152	0.0566	0.2632
Fender Point	110	40	0.2023	1.0257	0.4260	0.1702	0.3995
Featherbed Bank	111	40	0.1329	0.4353	0.2326	0.0690	0.2967
Sands Cut	112	40	0.1083	0.3832	0.1949	0.0512	0.2629
Elliott Key	113	40	0.1502	0.4592	0.2484	0.0769	0.3097
Caesar Creek, R-20	114	33	0.0716	0.3955	0.1844	0.0648	0.3517
Adams Key	115	33	0.0996	0.3714	0.2206	0.0629	0.2852
Rubicon Keys	116	40	0.1092	0.3902	0.2431	0.0689	0.2836
Totten Key	117	33	0.1443	0.7134	0.3044	0.1204	0.3954
Broad Creek	118	33	0.0953	0.9009	0.2646	0.1393	0.5264
Pumpkin Key	119	33	0.2443	1.3248	0.4251	0.1991	0.4684
Card Bank, G-17	120	33	0.2005	1.1051	0.4497	0.1875	0.4170
North Card Sound	121	40	0.1241	0.6167	0.3352	0.1113	0.3320
West Arsenicker	122	39	0.2125	0.6627	0.3634	0.0998	0.2747
Pelican Bank	123	40	0.1698	0.7224	0.3297	0.1082	0.3281
South Midbay	124	40	0.1370	0.6817	0.2707	0.1001	0.3699
Turkey Point Channel	125	33	0.1782	0.8492	0.3367	0.1228	0.3647
BNP Marker "B"	126	7	0.1993	0.3501	0.2719	0.0484	0.1781
Shoal Point	127	7	0.2061	0.3842	0.3012	0.0584	0.1940
Matheson Beach	128	7	0.2875	0.3789	0.3290	0.0341	0.1035
Marker G-71	129	7	0.2140	0.5234	0.3156	0.1049	0.3325
South Dodge Island	130	7	0.1326	0.4319	0.2779	0.0951	0.3421
North Venetian Basin	131	7	0.2144	0.3688	0.3140	0.0590	0.1878
North I-195 Basin	132	7	0.2301	0.4003	0.3288	0.0653	0.1984
North Normandy Isle	133	7	0.2049	0.5744	0.3462	0.1248	0.3605
Oleta River Park	134	7	0.1726	0.7706	0.3375	0.1982	0.5871
South Card Sound	135	7	0.2580	0.5778	0.3894	0.1030	0.2644
All Stations		35	0.0716	1.3248	0.3084	0.0971	0.3147

POR = Period of Record as indicated on Table 1.

Table 6b: Biscayne Bay Total Nitrogen (mg/l of N)

Station Name	Station Number	Mean 1994	S.D. 1994	Mean 1995	S.D. 1995	Mean 1996	S.D. 1996
Convoy Point	101	0.5208	0.1439	0.6155	0.2616	0.5358	0.2554
Black Point	102	0.5397	0.2571	0.5946	0.1853	0.5039	0.1380
Near Black Ledge	103	0.4055	0.1523	0.4545	0.1367	0.4115	0.1421
BNP Marker "C"	104	0.2344	0.0638	0.2945	0.0912	0.2123	0.0439
Bisc. Channel, G-21	105	0.2307	0.0625	0.2826	0.0893	0.1777	0.0563
Bisc. Channel, FWT	106	0.1760	0.0679	0.2417	0.0700	0.1514	0.0587
Fowey Rocks	107	0.1551	0.0545	0.1863	0.0652	0.1221	0.0315
Marker G-1B	108	0.1645	0.0580	0.2101	0.0407	0.1851	0.0379
North Midbay	109	0.2107	0.0415	0.2513	0.0681	0.2009	0.0466
Fender Point	110	0.4045	0.1293	0.4789	0.2000	0.4192	0.1958
Featherbed Bank	111	0.2308	0.0561	0.2651	0.0799	0.2258	0.0645
Sands Cut	112	0.1773	0.0388	0.2186	0.0625	0.2002	0.0475
Elliott Key	113	0.2250	0.0843	0.2954	0.0778	0.2352	0.0624
Caesar Creek, R-20	114	0.1684	0.0820	0.2197	0.0488	0.1733	0.0354
Adams Key	115	0.1908	0.0524	0.2613	0.0604	0.2255	0.0637
Rubicon Keys	116	0.2147	0.0555	0.3112	0.0683	0.2191	0.0392
Totten Key	117	0.3018	0.1641	0.3626	0.0754	0.2214	0.0437
Broad Creek	118	0.2760	0.2144	0.2980	0.0736	0.2115	0.0402
Pumpkin Key	119	0.4919	0.3101	0.4220	0.0721	0.2977	0.0255
Card Bank, G-17	120	0.5221	0.2640	0.4557	0.1181	0.3095	0.0675
North Card Sound	121	0.3568	0.1586	0.3686	0.0881	0.2931	0.0747
West Arsenicker	122	0.3871	0.1433	0.3893	0.0725	0.3344	0.0813
Pelican Bank	123	0.3291	0.1507	0.3700	0.0888	0.3071	0.0836
South Midbay	124	0.2837	0.1529	0.2745	0.0676	0.2585	0.0777
Turkey Point Channel	125	0.3865	0.1637	0.3441	0.0897	0.2471	0.0375
BNP Marker "B"	126					0.2719	0.0484
Shoal Point	127					0.3012	0.0584
Matheson Beach	128					0.3290	0.0341
Marker G-71	129					0.3156	0.1049
South Dodge Island	130					0.2779	0.0951
North Venetian Basin	131					0.3140	0.0590
North I-195 Basin	132					0.3288	0.0653
North Normandy Isle	133					0.3462	0.1248
Oleta River Park	134					0.3375	0.1982
South Card Sound	135					0.3894	0.1030
All Stations		0.3034	0.1238	0.3386	0.1138		

Table 7a: Biscayne Bay Total Inorganic Nitrogen (mg/l of N)

Station Name	Station Number	N POR	Min POR	Max POR	Mean POR	S.D. POR	Coef. Var. POR
Convoy Point	101	40	0.0036	0.9341	0.1458	0.2158	1.4799
Black Point	102	40	0.0039	0.8988	0.1124	0.1717	1.5269
Near Black Ledge	103	40	0.0058	0.3199	0.0630	0.0769	1.2210
BNP Marker "C"	104	40	0.0056	0.0687	0.0218	0.0136	0.6249
Bisc. Channel, G-21	105	33	0.0061	0.0678	0.0224	0.0130	0.5804
Bisc. Channel, FWT	106	33	0.0026	0.0520	0.0133	0.0091	0.6848
Fowey Rocks	107	33	0.0021	0.0223	0.0085	0.0052	0.6134
Marker G-1B	108	40	0.0023	0.0335	0.0111	0.0063	0.5669
North Midbay	109	40	0.0042	0.0723	0.0202	0.0138	0.6844
Fender Point	110	40	0.0086	0.7013	0.1170	0.1479	1.2642
Featherbed Bank	111	40	0.0056	0.1617	0.0242	0.0286	1.1835
Sands Cut	112	40	0.0027	0.0286	0.0135	0.0068	0.5037
Elliott Key	113	40	0.0103	0.0870	0.0337	0.0195	0.5785
Caesar Creek, R-20	114	33	0.0022	0.0291	0.0111	0.0069	0.6219
Adams Key	115	33	0.0062	0.0699	0.0243	0.0127	0.5233
Rubicon Keys	116	40	0.0099	0.0906	0.0273	0.0162	0.5927
Totten Key	117	33	0.0057	0.1349	0.0369	0.0291	0.7876
Broad Creek	118	33	0.0015	0.0940	0.0210	0.0161	0.7647
Pumpkin Key	119	33	0.0087	0.2180	0.0594	0.0497	0.8370
Card Bank, G-17	120	33	0.0059	0.2053	0.0635	0.0467	0.7357
North Card Sound	121	40	0.0062	0.1706	0.0418	0.0390	0.9337
West Arsenicker	122	40	0.0059	0.3404	0.0501	0.0603	1.2035
Pelican Bank	123	40	0.0078	0.1793	0.0629	0.0422	0.6698
South Midbay	124	40	0.0050	0.1534	0.0347	0.0282	0.8141
Turkey Point Channel	125	33	0.0107	0.2927	0.0728	0.0665	0.9132
BNP Marker "B"	126	7	0.0122	0.0497	0.0261	0.0125	0.4813
Shoal Point	127	7	0.0136	0.0382	0.0233	0.0104	0.4460
Matheson Beach	128	7	0.0174	0.1016	0.0387	0.0291	0.7521
Marker G-71	129	7	0.0139	0.1412	0.0481	0.0445	0.9245
South Dodge Island	130	7	0.0170	0.1358	0.0565	0.0420	0.7429
North Venetian Basin	131	7	0.0260	0.1063	0.0575	0.0271	0.4716
North I-195 Basin	132	7	0.0144	0.1106	0.0440	0.0338	0.7693
North Normandy Isle	133	7	0.0187	0.1390	0.0578	0.0481	0.8317
Oleta River Park	134	7	0.0082	0.2758	0.0676	0.0945	1.3996
South Card Sound	135	7	0.0203	0.0830	0.0444	0.0237	0.5342
All Stations		35	0.0015	0.9341	0.0450	0.0312	0.6925

POR = Period of Record as indicated on Table 1.

Table 7b: Biscayne Bay Total Inorganic Nitrogen (mg/l of N)

Station Name	Station Number	Mean 1994	S.D. 1994	Mean 1995	S.D. 1995	Mean 1996	S.D. 1996
Convoy Point	101	0.1233	0.1290	0.1570	0.1915	0.1125	0.2256
Black Point	102	0.1891	0.2722	0.1054	0.1016	0.0475	0.0583
Near Black Ledge	103	0.0945	0.1130	0.0752	0.0536	0.0204	0.0204
BNP Marker "C"	104	0.0293	0.0167	0.0201	0.0077	0.0143	0.0125
Bisc. Channel, G-21	105	0.0278	0.0165	0.0206	0.0102	0.0106	0.0026
Bisc. Channel, FWT	106	0.0174	0.0128	0.0106	0.0045	0.0074	0.0014
Fowey Rocks	107	0.0108	0.0040	0.0051	0.0033	0.0066	0.0032
Marker G-1B	108	0.0139	0.0059	0.0078	0.0041	0.0093	0.0042
North Midbay	109	0.0293	0.0164	0.0181	0.0114	0.0119	0.0095
Fender Point	110	0.1297	0.1358	0.1296	0.1345	0.0939	0.1949
Featherbed Bank	111	0.0276	0.0273	0.0209	0.0145	0.0246	0.0436
Sands Cut	112	0.0180	0.0063	0.0113	0.0051	0.0099	0.0063
Elliott Key	113	0.0367	0.0229	0.0312	0.0163	0.0267	0.0174
Caesar Creek, R-20	114	0.0147	0.0073	0.0073	0.0044	0.0072	0.0037
Adams Key	115	0.0302	0.0156	0.0201	0.0069	0.0118	0.0039
Rubicon Keys	116	0.0323	0.0158	0.0236	0.0086	0.0188	0.0101
Totten Key	117	0.0458	0.0362	0.0318	0.0158	0.0101	0.0037
Broad Creek	118	0.0298	0.0221	0.0170	0.0076	0.0074	0.0055
Pumpkin Key	119	0.0856	0.0670	0.0437	0.0260	0.0188	0.0075
Card Bank, G-17	120	0.0921	0.0577	0.0461	0.0205	0.0182	0.0132
North Card Sound	121	0.0590	0.0540	0.0298	0.0151	0.0287	0.0351
West Arsenicker	122	0.0790	0.0893	0.0426	0.0432	0.0342	0.0406
Pelican Bank	123	0.0794	0.0522	0.0613	0.0404	0.0465	0.0357
South Midbay	124	0.0461	0.0385	0.0276	0.0120	0.0266	0.0294
Turkey Point Channel	125	0.1010	0.0908	0.0698	0.0460	0.0152	0.0037
BNP Marker "B"	126					0.0261	0.0125
Shoal Point	127					0.0233	0.0104
Matheson Beach	128					0.0387	0.0291
Marker G-71	129					0.0481	0.0445
South Dodge Island	130					0.0565	0.0420
North Venetian Basin	131					0.0575	0.0271
North I-195 Basin	132					0.0440	0.0338
North Normandy Isle	133					0.0578	0.0481
Oleta River Park	134					0.0676	0.0945
South Card Sound	135					0.0444	0.0237
All Stations		0.0577	0.0449	0.0413	0.0392	0.0315	0.0250

Table 8a: Biscayne Bay Total Organic Nitrogen (mg/l of N)

Station Name	Station Number	N POR	Min POR	Max POR	Mean POR	S.D. POR	Coef. Var. POR
Convoy Point	101	40	0.2205	0.8246	0.4279	0.1378	0.3220
Black Point	102	40	0.1910	0.7384	0.4220	0.1256	0.2977
Near Black Ledge	103	40	0.1812	0.6057	0.3536	0.1108	0.3133
BNP Marker "C"	104	40	0.1260	0.4791	0.2191	0.0728	0.3324
Bisc. Channel, G-21	105	33	0.1259	0.4536	0.2158	0.0747	0.3460
Bisc. Channel, FWT	106	33	0.0862	0.3969	0.1793	0.0716	0.3991
Fowey Rocks	107	33	0.0643	0.3462	0.1483	0.0592	0.3991
Marker G-1B	108	40	0.0851	0.3050	0.1745	0.0494	0.2833
North Midbay	109	40	0.1189	0.3645	0.1950	0.0551	0.2823
Fender Point	110	40	0.1596	0.5332	0.3089	0.0842	0.2726
Featherbed Bank	111	40	0.1115	0.3948	0.2084	0.0584	0.2804
Sands Cut	112	40	0.0966	0.3677	0.1814	0.0513	0.2827
Elliott Key	113	40	0.1022	0.4120	0.2147	0.0747	0.3479
Caesar Creek, R-20	114	33	0.0634	0.3888	0.1733	0.0676	0.3901
Adams Key	115	33	0.0847	0.3410	0.1963	0.0646	0.3292
Rubicon Keys	116	40	0.0928	0.3700	0.2158	0.0689	0.3191
Totten Key	117	33	0.1079	0.6545	0.2675	0.1112	0.4157
Broad Creek	118	33	0.0800	0.8687	0.2436	0.1355	0.5561
Pumpkin Key	119	33	0.2013	1.2294	0.3658	0.1760	0.4812
Card Bank, G-17	120	33	0.1630	1.0261	0.3863	0.1652	0.4277
North Card Sound	121	40	0.1096	0.5832	0.2934	0.0948	0.3230
West Arsenicker	122	39	0.2019	0.6184	0.3127	0.0845	0.2702
Pelican Bank	123	40	0.1109	0.6188	0.2668	0.0876	0.3284
South Midbay	124	40	0.1116	0.6125	0.2360	0.0858	0.3634
Turkey Point Channel	125	33	0.1274	0.7525	0.2639	0.1075	0.4072
BNP Marker "B"	126	7	0.1833	0.3163	0.2458	0.0403	0.1639
Shoal Point	127	7	0.1896	0.3460	0.2779	0.0517	0.1859
Matheson Beach	128	7	0.1859	0.3454	0.2903	0.0559	0.1925
Marker G-71	129	7	0.1880	0.4559	0.2675	0.0879	0.3286
South Dodge Island	130	7	0.1156	0.3401	0.2214	0.0671	0.3032
North Venetian Basin	131	7	0.1883	0.2945	0.2565	0.0420	0.1636
North I-195 Basin	132	7	0.1808	0.3612	0.2849	0.0640	0.2246
North Normandy Isle	133	7	0.1808	0.4355	0.2884	0.0899	0.3119
Oleta River Park	134	7	0.1442	0.4948	0.2699	0.1093	0.4050
South Card Sound	135	7	0.2117	0.4948	0.3449	0.0882	0.2558
All Stations		35	0.0634	1.2294	0.2634	0.0702	0.2665

POR = Period of Record as indicated on Table 1.

Table 8b: Biscayne Bay Total Organic Nitrogen (mg/l of N)

Station Name	Station Number	Mean 1994	S.D. 1994	Mean 1995	S.D. 1995	Mean 1996	S.D. 1996
Convoy Point	101	0.3975	0.1414	0.4585	0.1230	0.4233	0.1011
Black Point	102	0.3506	0.0947	0.4892	0.1262	0.4564	0.1261
Near Black Ledge	103	0.3110	0.1014	0.3793	0.0908	0.3911	0.1366
BNP Marker "C"	104	0.2051	0.0638	0.2745	0.0883	0.1980	0.0373
Bisc. Channel, G-21	105	0.2029	0.0612	0.2620	0.0828	0.1671	0.0560
Bisc. Channel, FWT	106	0.1587	0.0639	0.2310	0.0685	0.1440	0.0575
Fowey Rocks	107	0.1443	0.0558	0.1812	0.0651	0.1155	0.0303
Marker G-1B	108	0.1506	0.0599	0.2023	0.0397	0.1758	0.0353
North Midbay	109	0.1815	0.0428	0.2332	0.0639	0.1890	0.0410
Fender Point	110	0.2748	0.0723	0.3492	0.0982	0.3253	0.0723
Featherbed Bank	111	0.2032	0.0485	0.2442	0.0698	0.2012	0.0388
Sands Cut	112	0.1593	0.0389	0.2073	0.0609	0.1903	0.0441
Elliott Key	113	0.1883	0.0824	0.2641	0.0722	0.2085	0.0562
Caesar Creek, R-20	114	0.1537	0.0840	0.2124	0.0491	0.1660	0.0344
Adams Key	115	0.1606	0.0474	0.2412	0.0576	0.2137	0.0657
Rubicon Keys	116	0.1825	0.0492	0.2876	0.0653	0.2003	0.0337
Totten Key	117	0.2559	0.1472	0.3308	0.0668	0.2113	0.0446
Broad Creek	118	0.2462	0.2082	0.2810	0.0726	0.2041	0.0392
Pumpkin Key	119	0.4063	0.2818	0.3783	0.0600	0.2790	0.0233
Card Bank, G-17	120	0.4300	0.2382	0.4095	0.1044	0.2913	0.0564
North Card Sound	121	0.2979	0.1314	0.3387	0.0779	0.2645	0.0580
West Arsenicker	122	0.3033	0.1197	0.3466	0.0744	0.3002	0.0609
Pelican Bank	123	0.2497	0.1278	0.3088	0.0636	0.2606	0.0559
South Midbay	124	0.2376	0.1323	0.2469	0.0609	0.2319	0.0578
Turkey Point Channel	125	0.2855	0.1618	0.2743	0.0639	0.2319	0.0396
BNP Marker "B"	126					0.2458	0.0403
Shoal Point	127					0.2779	0.0517
Matheson Beach	128					0.2903	0.0559
Marker G-71	129					0.2675	0.0879
South Dodge Island	130					0.2214	0.0671
North Venetian Basin	131					0.2565	0.0420
North I-195 Basin	132					0.2849	0.0640
North Normandy Isle	133					0.2884	0.0899
Oleta River Park	134					0.2699	0.1093
South Card Sound	135					0.3449	0.0882
All Stations		0.2455	0.0850	0.2973	0.0805	0.2511	0.0748

Table 9a: Biscayne Bay Total Phosphorus (mg/l of P)

Station Name	Station Number	N POR	Min POR	Max POR	Mean POR	S.D. POR	Coef. Var. POR
Convoy Point	101	40	0.0019	0.0173	0.0056	0.0027	0.4877
Black Point	102	40	0.0026	0.0104	0.0062	0.0019	0.3155
Near Black Ledge	103	40	0.0024	0.0080	0.0051	0.0014	0.2740
BNP Marker "C"	104	40	0.0024	0.0086	0.0051	0.0014	0.2777
Bisc. Channel, G-21	105	33	0.0029	0.0091	0.0054	0.0013	0.2408
Bisc. Channel, FWT	106	33	0.0026	0.0108	0.0057	0.0019	0.3297
Fowey Rocks	107	33	0.0015	0.0084	0.0045	0.0014	0.3059
Marker G-1B	108	40	0.0017	0.0094	0.0049	0.0016	0.3311
North Midbay	109	40	0.0019	0.0084	0.0044	0.0013	0.2983
Fender Point	110	40	0.0027	0.0099	0.0052	0.0016	0.3050
Featherbed Bank	111	40	0.0020	0.0082	0.0044	0.0013	0.2896
Sands Cut	112	40	0.0027	0.0085	0.0049	0.0013	0.2653
Elliott Key	113	40	0.0020	0.0079	0.0045	0.0013	0.2807
Caesar Creek, R-20	114	33	0.0021	0.0128	0.0054	0.0023	0.4316
Adams Key	115	33	0.0019	0.0081	0.0046	0.0014	0.2971
Rubicon Keys	116	40	0.0018	0.0081	0.0046	0.0011	0.2439
Totten Key	117	33	0.0029	0.0092	0.0051	0.0014	0.2733
Broad Creek	118	33	0.0022	0.0091	0.0049	0.0013	0.2738
Pumpkin Key	119	33	0.0029	0.0103	0.0061	0.0018	0.2884
Card Bank, G-17	120	33	0.0031	0.0153	0.0065	0.0027	0.4077
North Card Sound	121	40	0.0018	0.0130	0.0054	0.0022	0.4056
West Arsenicker	122	39	0.0029	0.0096	0.0056	0.0017	0.3143
Pelican Bank	123	40	0.0019	0.0081	0.0047	0.0014	0.3022
South Midbay	124	40	0.0009	0.0062	0.0040	0.0011	0.2848
Turkey Point Channel	125	33	0.0011	0.0067	0.0044	0.0013	0.3050
BNP Marker "B"	126	7	0.0020	0.0068	0.0048	0.0015	0.3121
Shoal Point	127	7	0.0031	0.0069	0.0044	0.0014	0.3103
Matheson Beach	128	7	0.0035	0.0109	0.0058	0.0026	0.4575
Marker G-71	129	7	0.0050	0.0101	0.0064	0.0017	0.2739
South Dodge Island	130	7	0.0053	0.0113	0.0078	0.0024	0.3150
North Venetian Basin	131	7	0.0057	0.0100	0.0079	0.0015	0.1856
North I-195 Basin	132	7	0.0061	0.0090	0.0075	0.0010	0.1403
North Normandy Isle	133	7	0.0091	0.0201	0.0121	0.0041	0.3368
Oleta River Park	134	7	0.0056	0.0188	0.0107	0.0044	0.4140
South Card Sound	135	7	0.0032	0.0068	0.0048	0.0014	0.2926
All Stations		35	0.0009	0.0201	0.0057	0.0017	0.3033

POR = Period of Record as indicated on Table 1.

Table 9b: Biscayne Bay Total Phosphorus (mg/l of P)

Station Name	Station Number	Mean 1994	S.D. 1994	Mean 1995	S.D. 1995	Mean 1996	S.D. 1996
Convoy Point	101	0.0061	0.0021	0.0054	0.0021	0.0041	0.0015
Black Point	102	0.0069	0.0020	0.0056	0.0017	0.0055	0.0020
Near Black Ledge	103	0.0055	0.0019	0.0046	0.0012	0.0049	0.0010
BNP Marker "C"	104	0.0051	0.0019	0.0049	0.0012	0.0051	0.0014
Bisc. Channel, G-21	105	0.0053	0.0016	0.0054	0.0011	0.0060	0.0016
Bisc. Channel, FWT	106	0.0058	0.0026	0.0053	0.0014	0.0060	0.0017
Fowey Rocks	107	0.0045	0.0016	0.0040	0.0013	0.0052	0.0013
Marker G-1B	108	0.0046	0.0019	0.0050	0.0018	0.0049	0.0014
North Midbay	109	0.0044	0.0018	0.0042	0.0010	0.0044	0.0012
Fender Point	110	0.0058	0.0019	0.0051	0.0018	0.0046	0.0009
Featherbed Bank	111	0.0045	0.0014	0.0041	0.0010	0.0044	0.0013
Sands Cut	112	0.0046	0.0016	0.0048	0.0009	0.0052	0.0015
Elliott Key	113	0.0043	0.0015	0.0047	0.0011	0.0044	0.0013
Caesar Creek, R-20	114	0.0048	0.0023	0.0051	0.0017	0.0057	0.0022
Adams Key	115	0.0044	0.0017	0.0044	0.0010	0.0047	0.0018
Rubicon Keys	116	0.0047	0.0016	0.0046	0.0009	0.0045	0.0010
Totten Key	117	0.0052	0.0020	0.0049	0.0010	0.0051	0.0009
Broad Creek	118	0.0049	0.0018	0.0048	0.0011	0.0053	0.0013
Pumpkin Key	119	0.0063	0.0021	0.0059	0.0017	0.0059	0.0019
Card Bank, G-17	120	0.0073	0.0026	0.0058	0.0018	0.0048	0.0011
North Card Sound	121	0.0059	0.0029	0.0054	0.0017	0.0050	0.0023
West Arsenicker	122	0.0061	0.0023	0.0054	0.0016	0.0053	0.0017
Pelican Bank	123	0.0046	0.0015	0.0047	0.0017	0.0047	0.0013
South Midbay	124	0.0039	0.0012	0.0038	0.0010	0.0040	0.0013
Turkey Point Channel	125	0.0047	0.0016	0.0042	0.0011	0.0038	0.0017
BNP Marker "B"	126					0.0048	0.0015
Shoal Point	127					0.0044	0.0014
Matheson Beach	128					0.0058	0.0026
Marker G-71	129					0.0064	0.0017
South Dodge Island	130					0.0078	0.0024
North Venetian Basin	131					0.0079	0.0015
North I-195 Basin	132					0.0075	0.0010
North Normandy Isle	133					0.0121	0.0041
Oleta River Park	134					0.0107	0.0044
South Card Sound	135					0.0048	0.0014
All Stations		0.0052	0.0009	0.0049	0.0006	0.0056	0.0018

Table 10a: Biscayne Bay Soluble Reactive Phosphorus (mg/l of P)

Station Name	Station Number	N POR	Min POR	Max POR	Mean POR	S.D. POR	Coef. Var. POR
Convoy Point	101	40	0.0000	0.0029	0.0008	0.0007	0.8211
Black Point	102	40	0.0000	0.0033	0.0009	0.0007	0.7811
Near Black Ledge	103	40	0.0000	0.0034	0.0007	0.0007	0.9546
BNP Marker "C"	104	40	0.0000	0.0022	0.0006	0.0006	0.9310
Bisc. Channel, G-21	105	33	0.0000	0.0025	0.0007	0.0007	1.0118
Bisc. Channel, FWT	106	33	0.0000	0.0021	0.0005	0.0005	1.0688
Fowey Rocks	107	33	0.0000	0.0022	0.0005	0.0005	0.9911
Marker G-1B	108	40	0.0000	0.0013	0.0004	0.0003	0.8629
North Midbay	109	40	0.0000	0.0024	0.0006	0.0006	1.0625
Fender Point	110	40	0.0000	0.0039	0.0009	0.0009	1.0056
Featherbed Bank	111	40	0.0000	0.0026	0.0005	0.0005	1.0931
Sands Cut	112	40	0.0000	0.0016	0.0004	0.0004	0.9924
Elliott Key	113	40	0.0000	0.0018	0.0005	0.0005	0.9094
Caesar Creek, R-20	114	33	0.0000	0.0022	0.0006	0.0005	0.9113
Adams Key	115	33	0.0000	0.0029	0.0006	0.0006	1.0718
Rubicon Keys	116	40	0.0000	0.0035	0.0006	0.0008	1.1700
Totten Key	117	33	0.0000	0.0025	0.0007	0.0006	0.8503
Broad Creek	118	33	0.0000	0.0031	0.0006	0.0006	1.0600
Pumpkin Key	119	33	0.0000	0.0025	0.0007	0.0006	0.7911
Card Bank, G-17	120	33	0.0000	0.0063	0.0009	0.0011	1.2215
North Card Sound	121	40	0.0000	0.0033	0.0006	0.0006	1.0448
West Arsenicker	122	40	0.0000	0.0032	0.0008	0.0007	0.9279
Pelican Bank	123	40	0.0000	0.0053	0.0008	0.0010	1.1970
South Midbay	124	40	0.0000	0.0022	0.0006	0.0006	0.9835
Turkey Point Channel	125	33	0.0000	0.0046	0.0009	0.0010	1.0978
BNP Marker "B"	126	7	0.0000	0.0009	0.0002	0.0003	1.3769
Shoal Point	127	7	0.0000	0.0015	0.0004	0.0005	1.3016
Matheson Beach	128	7	0.0000	0.0011	0.0004	0.0004	0.9691
Marker G-71	129	7	0.0000	0.0007	0.0003	0.0003	0.8391
South Dodge Island	130	7	0.0000	0.0005	0.0002	0.0002	0.8504
North Venetian Basin	131	7	0.0001	0.0009	0.0003	0.0003	0.8535
North I-195 Basin	132	7	0.0000	0.0015	0.0005	0.0005	1.1295
North Normandy Isle	133	7	0.0000	0.0016	0.0005	0.0006	1.3093
Oleta River Park	134	7	0.0000	0.0034	0.0011	0.0012	1.0903
South Card Sound	135	7	0.0001	0.0010	0.0004	0.0004	0.8616
All Stations		35	0.0000	0.0063	0.0006	0.0002	0.3562

POR = Period of Record as indicated on Table 1.

Table 10b: Biscayne Bay Soluble Reactive Phosphorus (mg/l of P)

Station Name	Station Number	Mean 1994	S.D. 1994	Mean 1995	S.D. 1995	Mean 1996	S.D. 1996
Convoy Point	101	0.0010	0.0006	0.0009	0.0009	0.0006	0.0004
Black Point	102	0.0011	0.0007	0.0006	0.0005	0.0007	0.0004
Near Black Ledge	103	0.0010	0.0007	0.0004	0.0004	0.0005	0.0004
BNP Marker "C"	104	0.0008	0.0006	0.0006	0.0005	0.0004	0.0004
Bisc. Channel, G-21	105	0.0010	0.0009	0.0004	0.0004	0.0004	0.0005
Bisc. Channel, FWT	106	0.0006	0.0007	0.0003	0.0003	0.0001	0.0001
Fowey Rocks	107	0.0006	0.0005	0.0003	0.0002	0.0003	0.0003
Marker G-1B	108	0.0005	0.0004	0.0003	0.0002	0.0003	0.0002
North Midbay	109	0.0006	0.0004	0.0005	0.0005	0.0004	0.0007
Fender Point	110	0.0012	0.0011	0.0007	0.0006	0.0005	0.0006
Featherbed Bank	111	0.0006	0.0005	0.0003	0.0002	0.0002	0.0002
Sands Cut	112	0.0006	0.0004	0.0003	0.0003	0.0002	0.0003
Elliott Key	113	0.0007	0.0006	0.0003	0.0004	0.0003	0.0003
Caesar Creek, R-20	114	0.0006	0.0003	0.0003	0.0002	0.0002	0.0003
Adams Key	115	0.0007	0.0005	0.0003	0.0002	0.0002	0.0002
Rubicon Keys	116	0.0007	0.0005	0.0005	0.0005	0.0003	0.0002
Totten Key	117	0.0007	0.0006	0.0005	0.0004	0.0007	0.0007
Broad Creek	118	0.0007	0.0005	0.0006	0.0009	0.0004	0.0004
Pumpkin Key	119	0.0007	0.0007	0.0006	0.0005	0.0008	0.0005
Card Bank, G-17	120	0.0009	0.0007	0.0005	0.0005	0.0006	0.0004
North Card Sound	121	0.0008	0.0006	0.0005	0.0004	0.0003	0.0002
West Arsenicker	122	0.0012	0.0008	0.0006	0.0006	0.0004	0.0003
Pelican Bank	123	0.0011	0.0008	0.0006	0.0005	0.0004	0.0002
South Midbay	124	0.0009	0.0007	0.0004	0.0003	0.0002	0.0002
Turkey Point Channel	125	0.0014	0.0013	0.0006	0.0005	0.0002	0.0001
BNP Marker "B"	126					0.0002	0.0003
Shoal Point	127					0.0004	0.0005
Matheson Beach	128					0.0004	0.0004
Marker G-71	129					0.0003	0.0003
South Dodge Island	130					0.0002	0.0002
North Venetian Basin	131					0.0003	0.0003
North I-195 Basin	132					0.0005	0.0005
North Normandy Isle	133					0.0005	0.0006
Oleta River Park	134					0.0011	0.0012
South Card Sound	135					0.0004	0.0004
All Stations		0.0008	0.0002	0.0005	0.0002	0.0004	0.0002

Table 11a: Biscayne Bay Alkaline Phosphatase Activity (uM/hr)

Station Name	Station Number	N POR	Min POR	Max POR	Mean POR	S.D. POR	Coef. Var. POR
Convoy Point	101	40	0.12	0.99	0.43	0.22	0.52
Black Point	102	40	0.09	2.11	0.42	0.32	0.76
Near Black Ledge	103	40	0.08	1.76	0.30	0.29	0.98
BNP Marker "C"	104	40	0.03	0.51	0.11	0.08	0.72
Bisc. Channel, G-21	105	33	0.03	0.13	0.08	0.03	0.32
Bisc. Channel, FWT	106	32	0.02	0.27	0.08	0.05	0.60
Fowey Rocks	107	32	0.01	0.12	0.05	0.02	0.48
Marker G-1B	108	40	0.03	0.26	0.08	0.04	0.52
North Midbay	109	40	0.04	0.29	0.11	0.05	0.42
Fender Point	110	40	0.06	0.84	0.27	0.16	0.61
Featherbed Bank	111	40	0.04	0.36	0.12	0.06	0.47
Sands Cut	112	40	0.04	0.28	0.10	0.05	0.50
Elliott Key	113	40	0.04	0.31	0.14	0.08	0.54
Caesar Creek, R-20	114	33	0.02	0.17	0.08	0.03	0.42
Adams Key	115	33	0.04	0.38	0.11	0.07	0.59
Rubicon Keys	116	40	0.04	0.25	0.11	0.05	0.43
Totten Key	117	33	0.06	0.22	0.14	0.04	0.33
Broad Creek	118	33	0.03	0.25	0.11	0.05	0.43
Pumpkin Key	119	33	0.05	0.83	0.22	0.21	0.95
Card Bank, G-17	120	33	0.06	0.72	0.19	0.13	0.65
North Card Sound	121	40	0.05	0.35	0.14	0.06	0.46
West Arsenicker	122	39	0.12	0.82	0.30	0.14	0.47
Pelican Bank	123	40	0.05	0.43	0.15	0.07	0.45
South Midbay	124	40	0.06	0.31	0.15	0.06	0.41
Turkey Point Channel	125	33	0.06	0.27	0.15	0.04	0.29
BNP Marker "B"	126	7	0.06	0.25	0.12	0.07	0.61
Shoal Point	127	7	0.05	0.34	0.14	0.10	0.73
Matheson Beach	128	7	0.04	0.35	0.14	0.11	0.78
Marker G-71	129	7	0.03	0.27	0.13	0.09	0.68
South Dodge Island	130	7	0.02	0.19	0.10	0.06	0.65
North Venetian Basin	131	7	0.03	0.20	0.08	0.06	0.68
North I-195 Basin	132	7	0.03	0.18	0.10	0.06	0.58
North Normandy Isle	133	7	0.04	0.26	0.14	0.08	0.61
Oleta River Park	134	7	0.02	0.58	0.20	0.21	1.05
South Card Sound	135	7	0.06	0.31	0.14	0.09	0.63
All Stations		35	0.01	2.11	0.15	0.09	0.58

POR = Period of Record as indicated on Table 1.

Table 11b: Biscayne Bay Alkaline Phosphatase Activity (uM/hr)

Station Name	Station Number	Mean 1994	S.D. 1994	Mean 1995	S.D. 1995	Mean 1996	S.D. 1996
Convoy Point	101	0.45	0.23	0.42	0.21	0.42	0.21
Black Point	102	0.32	0.16	0.43	0.20	0.55	0.52
Near Black Ledge	103	0.19	0.09	0.23	0.10	0.48	0.47
BNP Marker "C"	104	0.11	0.04	0.08	0.04	0.14	0.12
Bisc. Channel, G-21	105	0.09	0.03	0.07	0.02	0.08	0.02
Bisc. Channel, FWT	106	0.09	0.03	0.06	0.03	0.08	0.03
Fowey Rocks	107	0.06	0.02	0.04	0.02	0.06	0.02
Marker G-1B	108	0.08	0.03	0.07	0.02	0.08	0.06
North Midbay	109	0.12	0.03	0.09	0.03	0.12	0.07
Fender Point	110	0.21	0.09	0.29	0.18	0.32	0.21
Featherbed Bank	111	0.13	0.02	0.10	0.04	0.13	0.09
Sands Cut	112	0.10	0.02	0.09	0.04	0.11	0.06
Elliott Key	113	0.17	0.08	0.11	0.05	0.14	0.09
Caesar Creek, R-20	114	0.09	0.03	0.06	0.02	0.07	0.02
Adams Key	115	0.11	0.02	0.09	0.06	0.14	0.13
Rubicon Keys	116	0.13	0.03	0.09	0.05	0.10	0.06
Totten Key	117	0.17	0.04	0.12	0.04	0.10	0.04
Broad Creek	118	0.13	0.05	0.08	0.03	0.09	0.03
Pumpkin Key	119	0.20	0.09	0.11	0.05	0.11	0.05
Card Bank, G-17	120	0.19	0.09	0.17	0.10	0.14	0.04
North Card Sound	121	0.17	0.07	0.13	0.05	0.12	0.06
West Arsenicker	122	0.31	0.09	0.26	0.11	0.33	0.21
Pelican Bank	123	0.15	0.03	0.12	0.04	0.16	0.10
South Midbay	124	0.17	0.05	0.13	0.05	0.15	0.08
Turkey Point Channel	125	0.15	0.04	0.13	0.04	0.17	0.02
BNP Marker "B"	126					0.12	0.07
Shoal Point	127					0.14	0.10
Matheson Beach	128					0.14	0.11
Marker G-71	129					0.13	0.09
South Dodge Island	130					0.10	0.06
North Venetian Basin	131					0.08	0.06
North I-195 Basin	132					0.10	0.06
North Normandy Isle	133					0.14	0.08
Oleta River Park	134					0.20	0.21
South Card Sound	135					0.14	0.09
All Stations		0.16	0.09	0.14	0.10	0.16	0.12

Table 12a: Biscayne Bay Chlorophyll-a (ug/l)

Station Name	Station Number	N POR	Min POR	Max POR	Mean POR	S.D. POR	Coef. Var. POR
Convoy Point	101	40	0.08	1.30	0.45	0.33	0.72
Black Point	102	40	0.08	1.21	0.43	0.32	0.76
Near Black Ledge	103	40	0.06	1.13	0.38	0.31	0.81
BNP Marker "C"	104	40	0.07	1.12	0.41	0.31	0.76
Bisc. Channel, G-21	105	33	0.05	1.20	0.51	0.31	0.61
Bisc. Channel, FWT	106	33	0.14	1.22	0.62	0.36	0.59
Fowey Rocks	107	33	0.06	1.13	0.46	0.31	0.66
Marker G-1B	108	40	0.09	1.11	0.39	0.32	0.83
North Midbay	109	40	0.07	1.04	0.37	0.31	0.83
Fender Point	110	40	0.09	1.15	0.41	0.30	0.73
Featherbed Bank	111	40	0.06	1.12	0.37	0.31	0.84
Sands Cut	112	40	0.05	1.64	0.41	0.37	0.89
Elliott Key	113	40	0.07	1.21	0.37	0.30	0.81
Caesar Creek, R-20	114	33	0.05	1.06	0.42	0.31	0.75
Adams Key	115	33	0.06	1.01	0.36	0.28	0.78
Rubicon Keys	116	40	0.06	1.20	0.38	0.30	0.79
Totten Key	117	33	0.12	1.18	0.41	0.30	0.73
Broad Creek	118	33	0.09	1.06	0.38	0.28	0.74
Pumpkin Key	119	33	0.13	3.61	0.69	0.66	0.95
Card Bank, G-17	120	33	0.16	2.96	0.62	0.56	0.91
North Card Sound	121	40	0.06	2.96	0.50	0.50	0.99
West Arsenicker	122	40	0.07	1.44	0.44	0.34	0.79
Pelican Bank	123	40	0.05	1.77	0.40	0.35	0.88
South Midbay	124	40	0.04	1.13	0.37	0.30	0.81
Turkey Point Channel	125	33	0.06	1.22	0.39	0.32	0.83
BNP Marker "B"	126	7	0.17	1.06	0.49	0.32	0.64
Shoal Point	127	7	0.19	0.51	0.32	0.11	0.34
Matheson Beach	128	7	0.23	0.88	0.55	0.22	0.40
Marker G-71	129	7	0.45	1.11	0.77	0.26	0.34
South Dodge Island	130	7	0.56	0.90	0.68	0.11	0.16
North Venetian Basin	131	7	0.45	1.84	0.91	0.50	0.56
North I-195 Basin	132	7	0.29	1.73	0.78	0.46	0.59
North Normandy Isle	133	7	0.81	5.43	2.28	1.95	0.85
Oleta River Park	134	7	0.62	4.50	1.69	1.30	0.77
South Card Sound	135	7	0.10	0.64	0.39	0.17	0.44
All Stations		35	0.04	5.43	0.57	0.39	0.69

POR = Period of Record as indicated on Table 1.

Table 12b: Biscayne Bay Chlorophyll-a (ug/l)

Station Name	Station Number	Mean 1994	S.D. 1994	Mean 1995	S.D. 1995	Mean 1996	S.D. 1996
Convoy Point	101	0.65	0.40	0.34	0.21	0.26	0.15
Black Point	102	0.69	0.35	0.27	0.14	0.19	0.07
Near Black Ledge	103	0.57	0.37	0.24	0.14	0.19	0.10
BNP Marker "C"	104	0.61	0.37	0.23	0.08	0.25	0.13
Bisc. Channel, G-21	105	0.66	0.36	0.34	0.10	0.26	0.10
Bisc. Channel, FWT	106	0.79	0.37	0.46	0.28	0.30	0.18
Fowey Rocks	107	0.62	0.34	0.26	0.10	0.27	0.14
Marker G-1B	108	0.54	0.39	0.22	0.12	0.23	0.15
North Midbay	109	0.59	0.34	0.19	0.06	0.17	0.06
Fender Point	110	0.58	0.38	0.28	0.13	0.24	0.08
Featherbed Bank	111	0.54	0.35	0.21	0.11	0.20	0.16
Sands Cut	112	0.56	0.35	0.34	0.42	0.18	0.08
Elliott Key	113	0.55	0.36	0.21	0.05	0.19	0.08
Caesar Creek, R-20	114	0.53	0.36	0.24	0.11	0.21	0.08
Adams Key	115	0.46	0.30	0.19	0.09	0.18	0.08
Rubicon Keys	116	0.57	0.38	0.22	0.10	0.22	0.11
Totten Key	117	0.56	0.33	0.23	0.10	0.21	0.06
Broad Creek	118	0.51	0.34	0.22	0.07	0.18	0.08
Pumpkin Key	119	0.96	0.87	0.39	0.25	0.28	0.20
Card Bank, G-17	120	0.80	0.73	0.46	0.44	0.28	0.08
North Card Sound	121	0.76	0.75	0.29	0.21	0.30	0.18
West Arsenicker	122	0.62	0.43	0.25	0.11	0.28	0.18
Pelican Bank	123	0.60	0.49	0.19	0.07	0.29	0.14
South Midbay	124	0.52	0.35	0.17	0.06	0.26	0.14
Turkey Point Channel	125	0.51	0.35	0.18	0.08	0.21	0.11
BNP Marker "B"	126					0.49	0.32
Shoal Point	127					0.32	0.11
Matheson Beach	128					0.55	0.22
Marker G-71	129					0.77	0.26
South Dodge Island	130					0.68	0.11
North Venetian Basin	131					0.91	0.50
North I-195 Basin	132					0.78	0.46
North Normandy Isle	133					2.28	1.95
Oleta River Park	134					1.69	1.30
South Card Sound	135					0.39	0.17
All Stations		0.61	0.11	0.26	0.08	0.42	0.44

Table 13a: Biscayne Bay Total Organic Carbon (mg/l of C)

Station Name	Station Number	N POR	Min POR	Max POR	Mean POR	S.D. POR	Coef. Var. POR
Convoy Point	101	40	2.34	13.09	4.85	1.71	0.35
Black Point	102	40	1.38	18.09	5.65	2.64	0.47
Near Black Ledge	103	40	1.46	16.94	4.58	2.94	0.64
BNP Marker "C"	104	40	0.77	12.63	2.93	2.14	0.73
Bisc. Channel, G-21	105	33	1.15	19.86	3.18	3.24	1.02
Bisc. Channel, FWT	106	33	0.52	91.92	5.15	15.63	3.04
Fowey Rocks	107	33	0.33	37.03	2.91	6.21	2.13
Marker G-1B	108	40	0.73	29.41	3.07	4.37	1.42
North Midbay	109	40	0.63	13.44	2.99	2.00	0.67
Fender Point	110	40	2.00	12.64	4.38	1.67	0.38
Featherbed Bank	111	40	0.90	19.35	3.19	2.87	0.90
Sands Cut	112	40	0.75	12.81	2.65	1.86	0.70
Elliott Key	113	40	1.20	8.81	2.79	1.29	0.46
Caesar Creek, R-20	114	33	0.70	8.67	2.24	1.45	0.65
Adams Key	115	33	0.90	8.80	2.62	1.37	0.52
Rubicon Keys	116	40	1.12	8.76	2.85	1.32	0.46
Totten Key	117	33	1.38	7.02	3.38	1.36	0.40
Broad Creek	118	33	1.19	7.49	2.84	1.23	0.43
Pumpkin Key	119	33	1.83	7.01	4.44	1.15	0.26
Card Bank, G-17	120	33	2.62	7.57	4.99	1.38	0.28
North Card Sound	121	40	1.97	6.79	3.91	1.24	0.32
West Arsenicker	122	39	2.54	7.45	4.53	1.30	0.29
Pelican Bank	123	40	1.43	6.52	3.58	1.20	0.33
South Midbay	124	40	0.96	8.01	3.02	1.25	0.41
Turkey Point Channel	125	33	1.35	16.33	3.67	2.51	0.68
BNP Marker "B"	126	7	2.53	5.67	3.64	1.07	0.29
Shoal Point	127	7	2.37	5.97	4.04	1.22	0.30
Matheson Beach	128	7	2.87	5.79	4.12	0.96	0.23
Marker G-71	129	7	3.00	5.00	3.74	0.76	0.20
South Dodge Island	130	7	2.30	6.23	3.83	1.34	0.35
North Venetian Basin	131	7	3.31	5.32	3.87	0.74	0.19
North I-195 Basin	132	7	3.53	6.21	4.45	0.94	0.21
North Normandy Isle	133	7	3.09	6.82	4.56	1.18	0.26
Oleta River Park	134	7	2.67	7.41	4.32	1.73	0.40
South Card Sound	135	7	3.59	5.44	4.40	0.56	0.13
All Stations		35	0.33	91.92	3.75	0.84	0.22

POR = Period of Record as indicated on Table 1.

Table 13b: Biscayne Bay Total Organic Carbon (mg/l of C)

Station Name	Station Number	Mean 1994	S.D. 1994	Mean 1995	S.D. 1995	Mean 1996	S.D. 1996
Convoy Point	101	4.95	2.75	4.63	1.03	5.18	1.13
Black Point	102	5.99	4.61	5.65	0.90	5.85	1.18
Near Black Ledge	103	5.18	4.88	3.98	0.87	5.18	1.88
BNP Marker "C"	104	3.61	3.64	2.83	0.80	2.92	0.88
Bisc. Channel, G-21	105	4.14	5.21	3.04	0.87	2.63	0.94
Bisc. Channel, FWT	106	9.76	25.92	2.94	1.07	2.67	0.83
Fowey Rocks	107	4.83	10.20	2.08	0.90	2.11	0.94
Marker G-1B	108	4.42	7.92	2.89	0.78	2.59	0.76
North Midbay	109	3.50	3.36	3.24	0.81	2.84	0.76
Fender Point	110	4.62	2.62	4.64	0.88	4.51	0.88
Featherbed Bank	111	4.09	5.07	3.24	0.75	2.87	0.74
Sands Cut	112	2.98	3.22	2.88	0.80	2.56	0.55
Elliott Key	113	2.69	2.01	3.08	0.93	2.95	0.68
Caesar Creek, R-20	114	2.23	2.11	2.54	0.84	2.63	0.63
Adams Key	115	2.56	2.06	2.97	0.65	2.85	0.61
Rubicon Keys	116	2.80	2.03	3.29	0.92	2.89	0.58
Totten Key	117	3.08	1.51	4.26	1.09	3.17	0.62
Broad Creek	118	2.81	1.62	3.28	0.86	2.93	0.53
Pumpkin Key	119	4.36	1.55	4.83	0.89	4.21	0.43
Card Bank, G-17	120	5.30	1.62	5.36	1.16	4.38	1.10
North Card Sound	121	3.80	1.49	4.58	1.05	3.84	0.84
West Arsenicker	122	4.88	1.64	4.92	1.05	4.34	0.97
Pelican Bank	123	3.57	1.44	4.00	0.91	3.68	1.06
South Midbay	124	3.12	1.75	3.57	0.90	2.91	0.61
Turkey Point Channel	125	4.45	3.85	3.79	1.07	2.99	0.82
BNP Marker "B"	126					3.64	1.07
Shoal Point	127					4.04	1.22
Matheson Beach	128					4.12	0.96
Marker G-71	129					3.74	0.76
South Dodge Island	130					3.83	1.34
North Venetian Basin	131					3.87	0.74
North I-195 Basin	132					4.45	0.94
North Normandy Isle	133					4.56	1.18
Oleta River Park	134					4.32	1.73
South Card Sound	135					4.40	0.56
All Stations		4.15	1.53	3.70	0.94	3.62	0.90

Table 14: Biscayne Bay Silica (mg/l of Si)

Station Name	Station Number	N POR	Min POR	Max POR	Mean POR	S.D. POR	Coef. Var. POR
Convoy Point	101	4	0.0333	0.5680	0.2003	0.2509	1.2527
Black Point	102	4	0.0564	0.8486	0.4083	0.3662	0.8968
Near Black Ledge	103	4	0.0057	0.1177	0.0540	0.0480	0.8877
BNP Marker "C"	104	4	0.0134	0.1031	0.0459	0.0425	0.9260
Bisc. Channel, G-21	105	2	0.0315	0.0342	0.0329	0.0019	0.0575
Bisc. Channel, FWT	106	2	0.0000	0.0078	0.0039	0.0055	1.4142
Fowey Rocks	107	2	0.0088	0.0115	0.0101	0.0019	0.1864
Marker G-1B	108	4	0.0057	0.0827	0.0375	0.0324	0.8647
North Midbay	109	4	0.0096	0.0250	0.0184	0.0072	0.3893
Fender Point	110	4	0.0344	0.3093	0.1297	0.1272	0.9809
Featherbed Bank	111	4	0.0057	0.0427	0.0294	0.0162	0.5523
Sands Cut	112	4	0.0086	0.0437	0.0204	0.0160	0.7841
Elliott Key	113	4	0.0195	0.0458	0.0272	0.0126	0.4634
Caesar Creek, R-20	114	2	0.0000	0.0096	0.0048	0.0068	1.4142
Adams Key	115	2	0.0000	0.0115	0.0057	0.0081	1.4142
Rubicon Keys	116	4	0.0020	0.0479	0.0216	0.0196	0.9038
Totten Key	117	2	0.0124	0.0156	0.0140	0.0023	0.1620
Broad Creek	118	2	0.0124	0.0176	0.0150	0.0037	0.2436
Pumpkin Key	119	2	0.0235	0.0335	0.0285	0.0071	0.2483
Card Bank, G-17	120	2	0.0229	0.0274	0.0252	0.0031	0.1246
North Card Sound	121	4	0.0115	0.1135	0.0449	0.0481	1.0709
West Arsenicker	122	4	0.0000	0.0807	0.0288	0.0361	1.2528
Pelican Bank	123	4	0.0000	0.0856	0.0372	0.0358	0.9611
South Midbay	124	4	0.0000	0.0521	0.0244	0.0255	1.0437
Turkey Point Channel	125	2	0.0000	0.0076	0.0038	0.0054	1.4142
BNP Marker "B"	126	2	0.1614	0.2937	0.2276	0.0936	0.4112
Shoal Point	127	2	0.0312	0.3035	0.1674	0.1925	1.1502
Matheson Beach	128	2	0.0948	0.1848	0.1398	0.0637	0.4555
Marker G-71	129	2	0.1906	0.7178	0.4542	0.3728	0.8209
South Dodge Island	130	2	0.1937	0.6935	0.4436	0.3534	0.7967
North Venetian Basin	131	2	0.3145	0.3715	0.3430	0.0404	0.1177
North I-195 Basin	132	2	0.1614	0.2830	0.2222	0.0860	0.3871
North Normandy Isle	133	2	0.5144	0.6215	0.5679	0.0758	0.1334
Oleta River Park	134	2	0.2280	0.5486	0.3883	0.2266	0.5837
South Card Sound	135	2	0.0396	0.1605	0.1000	0.0855	0.8548
All Stations		35	0.00	0.85	0.12	0.16	1.29

POR = Period of Record as indicated on Table 1.

Table 15a: Biscayne Bay Turbidity (NTU)

Station Name	Station Number	N POR	Min POR	Max POR	Mean POR	S.D. POR	Coef. Var. POR
Convoy Point	101	40	0.10	2.25	0.76	0.52	0.68
Black Point	102	40	0.05	1.05	0.49	0.23	0.48
Near Black Ledge	103	40	0.10	1.80	0.64	0.37	0.58
BNP Marker "C"	104	40	0.55	4.50	1.62	0.96	0.59
Bisc. Channel, G-21	105	33	0.45	5.85	2.05	1.23	0.60
Bisc. Channel, FWT	106	32	0.07	3.85	1.21	0.95	0.78
Fowey Rocks	107	32	0.00	3.20	0.50	0.62	1.24
Marker G-1B	108	40	0.02	20.10	1.62	3.11	1.92
North Midbay	109	40	0.37	3.56	1.19	0.66	0.56
Fender Point	110	40	0.12	1.70	0.75	0.40	0.53
Featherbed Bank	111	40	0.30	19.00	1.80	3.30	1.84
Sands Cut	112	40	0.15	3.55	1.15	0.82	0.71
Elliott Key	113	40	0.08	3.15	1.03	0.63	0.62
Caesar Creek, R-20	114	33	0.35	25.80	3.87	5.28	1.36
Adams Key	115	33	0.36	7.40	1.71	1.31	0.76
Rubicon Keys	116	40	0.10	5.85	1.51	1.29	0.86
Totten Key	117	33	0.20	3.85	1.26	0.83	0.66
Broad Creek	118	33	0.15	12.18	2.08	2.22	1.06
Pumpkin Key	119	33	0.30	2.60	1.10	0.58	0.52
Card Bank, G-17	120	33	0.20	3.80	1.48	0.99	0.67
North Card Sound	121	40	0.15	2.50	0.92	0.54	0.58
West Arsenicker	122	39	0.20	3.75	0.73	0.59	0.81
Pelican Bank	123	40	0.10	4.00	1.10	0.89	0.81
South Midbay	124	40	0.30	1.95	0.98	0.44	0.45
Turkey Point Channel	125	33	0.00	50.60	2.27	8.70	3.84
BNP Marker "B"	126	7	0.65	3.35	1.44	1.00	0.69
Shoal Point	127	7	0.00	0.60	0.31	0.24	0.79
Matheson Beach	128	7	0.00	0.68	0.42	0.24	0.58
Marker G-71	129	7	0.35	3.35	1.42	1.00	0.71
South Dodge Island	130	7	0.84	22.35	5.12	7.66	1.50
North Venetian Basin	131	7	0.65	2.85	1.57	0.82	0.52
North I-195 Basin	132	7	0.25	0.90	0.63	0.25	0.40
North Normandy Isle	133	7	0.40	4.13	1.66	1.25	0.75
Oleta River Park	134	7	0.35	1.94	1.25	0.50	0.40
South Card Sound	135	7	0.15	3.20	1.09	1.10	1.01
All Stations		35	0.00	50.60	1.39	0.93	0.67

POR = Period of Record as indicated on Table 1.

Table 15b: Biscayne Bay Turbidity (NTU)

Station Name	Station Number	Mean 1994	S.D. 1994	Mean 1995	S.D. 1995	Mean 1996	S.D. 1996
Convoy Point	101	0.70	0.46	0.94	0.64	0.67	0.50
Black Point	102	0.53	0.21	0.63	0.26	0.37	0.16
Near Black Ledge	103	0.54	0.23	0.72	0.44	0.67	0.47
BNP Marker "C"	104	1.26	0.46	1.87	0.93	1.92	1.29
Bisc. Channel, G-21	105	1.71	0.89	2.27	1.07	2.86	2.10
Bisc. Channel, FWT	106	0.87	0.90	1.67	0.96	1.35	0.99
Fowey Rocks	107	0.25	0.22	0.51	0.44	1.25	1.16
Marker G-1B	108	0.96	0.59	3.01	5.51	1.11	0.68
North Midbay	109	1.38	0.91	1.20	0.58	1.02	0.50
Fender Point	110	0.63	0.37	0.83	0.41	0.74	0.44
Featherbed Bank	111	0.87	0.22	2.20	3.06	2.55	5.21
Sands Cut	112	0.93	0.61	1.60	0.86	1.13	0.93
Elliott Key	113	0.59	0.29	1.46	0.77	1.03	0.40
Caesar Creek, R-20	114	2.48	4.09	4.14	3.73	7.59	10.26
Adams Key	115	1.37	0.98	2.13	1.80	2.03	0.73
Rubicon Keys	116	0.91	0.40	2.28	1.78	1.55	1.16
Totten Key	117	0.85	0.33	1.54	0.78	2.00	1.24
Broad Creek	118	2.11	3.23	2.08	1.27	3.02	1.67
Pumpkin Key	119	0.92	0.36	0.99	0.46	1.26	0.78
Card Bank, G-17	120	1.07	0.61	1.67	1.09	2.06	1.31
North Card Sound	121	0.70	0.31	1.18	0.48	0.95	0.72
West Arsenicker	122	0.54	0.29	0.84	0.33	0.94	0.94
Pelican Bank	123	0.54	0.26	1.34	0.83	1.58	1.09
South Midbay	124	0.87	0.41	1.22	0.49	0.94	0.40
Turkey Point Channel	125	0.43	0.20	5.12	14.34	1.29	1.10
BNP Marker "B"	126					1.44	1.00
Shoal Point	127					0.31	0.24
Matheson Beach	128					0.42	0.24
Marker G-71	129					1.42	1.00
South Dodge Island	130					5.12	7.66
North Venetian Basin	131					1.57	0.82
North I-195 Basin	132					0.63	0.25
North Normandy Isle	133					1.66	1.25
Oleta River Park	134					1.25	0.50
South Card Sound	135					1.09	1.10
All Stations		0.96	0.52	1.74	1.07	1.62	1.38

Table 16a: Biscayne Bay Surface Salinity (ppt)

Station Name	Station Number	N POR	Min POR	Max POR	Mean POR	S.D. POR	Coef. Var. POR
Convoy Point	101	40	12.80	38.40	26.09	7.15	0.27
Black Point	102	40	13.00	38.20	25.18	6.36	0.25
Near Black Ledge	103	40	18.90	38.20	29.05	4.80	0.17
BNP Marker "C"	104	40	29.70	37.60	34.24	2.17	0.06
Bisc. Channel, G-21	105	33	28.40	37.70	33.67	2.50	0.07
Bisc. Channel, FWT	106	33	31.40	37.40	34.85	1.63	0.05
Fowey Rocks	107	33	32.60	36.60	35.59	0.91	0.03
Marker G-1B	108	40	31.80	37.40	34.79	1.66	0.05
North Midbay	109	40	29.70	37.90	34.35	2.29	0.07
Fender Point	110	40	15.10	38.60	28.35	5.79	0.20
Featherbed Bank	111	40	26.60	38.60	34.34	2.59	0.08
Sands Cut	112	40	33.30	38.10	35.24	1.28	0.04
Elliott Key	113	40	29.70	38.30	34.61	2.23	0.06
Caesar Creek, R-20	114	33	32.80	37.30	35.38	1.06	0.03
Adams Key	115	33	30.50	38.30	34.39	2.06	0.06
Rubicon Keys	116	40	28.30	38.00	34.10	2.42	0.07
Totten Key	117	33	25.30	37.90	32.62	3.37	0.10
Broad Creek	118	33	28.50	37.50	33.95	2.43	0.07
Pumpkin Key	119	33	23.50	36.80	30.77	3.70	0.12
Card Bank, G-17	120	33	21.00	37.00	29.71	4.38	0.15
North Card Sound	121	40	24.30	37.70	31.98	3.35	0.10
West Arsenicker	122	40	21.70	38.10	30.11	4.68	0.16
Pelican Bank	123	40	24.20	38.50	31.50	3.84	0.12
South Midbay	124	40	28.00	38.10	34.09	2.43	0.07
Turkey Point Channel	125	33	21.30	38.10	30.91	4.33	0.14
BNP Marker "B"	126	7	31.30	36.40	32.99	1.82	0.06
Shoal Point	127	7	26.40	34.40	31.09	2.64	0.08
Matheson Beach	128	7	26.50	33.10	30.17	2.43	0.08
Marker G-71	129	7	29.70	34.80	31.99	2.19	0.07
South Dodge Island	130	7	30.10	35.60	32.60	1.93	0.06
North Venetian Basin	131	7	27.80	32.60	30.79	1.85	0.06
North I-195 Basin	132	7	25.50	32.20	29.19	2.58	0.09
North Normandy Isle	133	7	19.30	33.60	28.96	4.67	0.16
Oleta River Park	134	7	22.20	34.20	31.07	4.05	0.13
South Card Sound	135	7	28.90	33.60	30.37	1.87	0.06
All Stations		35	12.80	38.60	31.97	2.64	0.08

POR = Period of Record as indicated on Table 1.

Table 16b: Biscayne Bay Surface Salinity (ppt)

Station Name	Station Number	Mean 1994	S.D. 1994	Mean 1995	S.D. 1995	Mean 1996	S.D. 1996
Convoy Point	101	27.26	7.18	23.63	6.59	29.06	6.30
Black Point	102	27.09	6.40	21.33	5.52	27.08	6.44
Near Black Ledge	103	30.83	4.70	26.43	4.09	29.89	5.24
BNP Marker "C"	104	34.73	2.18	32.82	2.01	35.50	1.73
Bisc. Channel, G-21	105	34.05	2.64	32.62	2.29	36.08	1.52
Bisc. Channel, FWT	106	34.93	1.67	34.40	1.57	36.32	1.03
Fowey Rocks	107	35.50	0.94	35.68	0.57	36.26	0.23
Marker G-1B	108	35.03	1.62	33.94	1.50	35.73	1.44
North Midbay	109	35.07	2.29	32.80	2.17	35.49	1.84
Fender Point	110	29.97	5.95	24.61	5.17	30.29	5.56
Featherbed Bank	111	35.33	2.49	32.58	2.68	35.33	2.07
Sands Cut	112	35.47	1.30	34.81	0.99	35.85	1.25
Elliott Key	113	35.21	2.35	33.35	2.00	35.76	1.62
Caesar Creek, R-20	114	35.39	1.09	35.49	0.48	36.20	0.83
Adams Key	115	34.90	2.06	33.69	1.91	36.06	1.72
Rubicon Keys	116	34.73	2.33	32.59	2.65	35.39	1.61
Totten Key	117	34.08	3.36	30.57	3.23	34.44	2.69
Broad Creek	118	34.41	2.47	33.21	2.63	35.60	1.74
Pumpkin Key	119	32.41	4.01	28.32	2.98	32.26	3.30
Card Bank, G-17	120	31.36	4.54	26.78	3.71	32.28	3.68
North Card Sound	121	33.11	3.61	29.90	3.42	32.91	2.81
West Arsenicker	122	30.75	5.15	27.50	4.62	32.33	3.96
Pelican Bank	123	32.43	4.08	29.26	3.73	33.23	3.16
South Midbay	124	34.71	2.76	32.67	2.21	35.06	2.02
Turkey Point Channel	125	31.33	5.22	29.23	3.45	34.48	3.42
BNP Marker "B"	126					32.99	1.82
Shoal Point	127					31.09	2.64
Matheson Beach	128					30.17	2.43
Marker G-71	129					31.99	2.19
South Dodge Island	130					32.60	1.93
North Venetian Basin	131					30.79	1.85
North I-195 Basin	132					29.19	2.58
North Normandy Isle	133					28.96	4.67
Oleta River Park	134					31.07	4.05
South Card Sound	135					30.37	1.87
All Stations		33.20	2.49	30.73	3.89	33.09	2.66

Table 17a: Biscayne Bay 1m Salinity (ppt)

Station Name	Station Number	N POR	Min POR	Max POR	Mean POR	S.D. POR	Coef. Var. POR
Convoy Point	101	26	12.70	38.40	27.30	7.18	0.26
Black Point	102	26	14.70	38.20	25.18	6.80	0.27
Near Black Ledge	103	26	21.20	38.20	29.22	5.15	0.18
BNP Marker "C"	104	26	29.70	37.60	33.99	2.34	0.07
Bisc. Channel, G-21	105	26	28.40	37.60	33.71	2.67	0.08
Bisc. Channel, FWT	106	26	31.40	37.40	34.93	1.56	0.04
Fowey Rocks	107	26	33.50	36.60	35.70	0.73	0.02
Marker G-1B	108	26	31.80	37.40	34.63	1.68	0.05
North Midbay	109	26	29.70	37.90	34.22	2.57	0.08
Fender Point	110	26	15.00	38.60	28.05	6.49	0.23
Featherbed Bank	111	26	29.00	38.60	34.62	2.47	0.07
Sands Cut	112	26	33.30	38.10	35.32	1.28	0.04
Elliott Key	113	27	29.70	38.30	34.61	2.47	0.07
Caesar Creek, R-20	114	27	33.90	37.30	35.58	0.80	0.02
Adams Key	115	27	30.60	38.30	34.55	2.13	0.06
Rubicon Keys	116	27	29.30	38.00	34.10	2.60	0.08
Totten Key	117	27	25.50	37.90	32.56	3.65	0.11
Broad Creek	118	27	28.50	37.50	34.13	2.62	0.08
Pumpkin Key	119	27	25.20	36.90	30.91	3.73	0.12
Card Bank, G-17	120	27	20.90	37.00	29.63	4.65	0.16
North Card Sound	121	27	24.70	37.40	31.87	3.78	0.12
West Arsenicker	122	27	21.70	38.10	30.36	5.18	0.17
Pelican Bank	123	27	24.20	38.50	31.51	4.38	0.14
South Midbay	124	26	28.00	38.10	34.04	2.82	0.08
Turkey Point Channel	125	26	23.80	37.90	31.29	4.29	0.14
BNP Marker "B"	126	0					
Shoal Point	127	0					
Matheson Beach	128	0					
Marker G-71	129	0					
South Dodge Island	130	0					
North Venetian Basin	131	0					
North I-195 Basin	132	0					
North Normandy Isle	133	0					
Oleta River Park	134	0					
South Card Sound	135	0					
All Stations		35	12.70	38.60	32.48	2.85	0.09

Table 17b: Biscayne Bay 1m Salinity (ppt)

Station Name	Station Number	Mean 1994	S.D. 1994	Mean 1995	S.D. 1995	Mean 1996	S.D. 1996
Convoy Point	101	28.49	7.11	24.03	6.49	33.00	5.43
Black Point	102	26.34	7.05	21.69	5.12	31.44	5.43
Near Black Ledge	103	29.99	5.18	26.49	4.02	34.38	3.28
BNP Marker "C"	104	34.43	2.39	32.81	1.98	36.02	1.55
Bisc. Channel, G-21	105	33.80	2.96	32.65	2.29	36.08	1.46
Bisc. Channel, FWT	106	34.77	1.53	34.49	1.53	36.30	1.04
Fowey Rocks	107	35.40	0.93	35.68	0.58	36.28	0.26
Marker G-1B	108	34.70	1.72	33.93	1.48	36.20	1.01
North Midbay	109	34.94	2.55	32.78	2.19	36.34	1.43
Fender Point	110	29.83	6.68	24.61	5.18	33.10	5.04
Featherbed Bank	111	35.16	2.82	33.48	2.08	36.40	1.37
Sands Cut	112	35.26	1.37	34.83	0.97	36.60	1.08
Elliott Key	113	35.17	2.59	33.33	2.00	36.60	1.72
Caesar Creek, R-20	114	35.38	1.00	35.48	0.48	36.22	0.81
Adams Key	115	34.86	2.25	33.68	1.90	36.02	1.70
Rubicon Keys	116	34.87	2.36	32.68	2.49	35.94	1.62
Totten Key	117	33.95	3.69	30.61	3.18	34.46	2.69
Broad Creek	118	34.52	2.73	33.19	2.64	35.60	1.74
Pumpkin Key	119	33.25	3.09	28.41	2.93	32.26	3.28
Card Bank, G-17	120	31.58	4.47	26.85	3.84	32.40	3.56
North Card Sound	121	33.01	3.87	30.02	3.39	34.04	2.85
West Arsenicker	122	31.79	5.06	27.56	4.59	34.24	3.35
Pelican Bank	123	32.76	4.26	29.26	3.73	34.42	3.96
South Midbay	124	34.57	3.20	32.67	2.20	36.38	1.65
Turkey Point Channel	125	32.17	4.72	29.28	3.45	34.54	3.30
BNP Marker "B"	126						
Shoal Point	127						
Matheson Beach	128						
Marker G-71	129						
South Dodge Island	130						
North Venetian Basin	131						
North I-195 Basin	132						
North Normandy Isle	133						
Oleta River Park	134						
South Card Sound	135						
All Stations		33.24	2.39	30.82	3.84	35.01	1.57

Table 18a: Biscayne Bay Bottom Salinity (ppt)

Station Name	Station Number	N POR	Min POR	Max POR	Mean POR	S.D. POR	Coef. Var. POR
Convoy Point	101	40	12.80	38.40	26.88	6.61	0.25
Black Point	102	40	14.80	38.20	25.56	5.91	0.23
Near Black Ledge	103	40	18.80	38.20	29.13	4.72	0.16
BNP Marker "C"	104	40	29.70	37.60	34.21	2.16	0.06
Bisc. Channel, G-21	105	33	29.50	37.60	33.95	2.19	0.06
Bisc. Channel, FWT	106	33	32.40	37.40	35.26	1.18	0.03
Fowey Rocks	107	33	32.60	36.60	35.71	0.75	0.02
Marker G-1B	108	40	31.70	37.40	34.83	1.64	0.05
North Midbay	109	40	29.70	37.90	34.36	2.29	0.07
Fender Point	110	40	15.00	38.60	28.61	5.56	0.19
Featherbed Bank	111	40	29.00	38.60	34.68	2.16	0.06
Sands Cut	112	40	33.30	38.10	35.23	1.25	0.04
Elliott Key	113	40	29.90	38.30	34.62	2.21	0.06
Caesar Creek, R-20	114	33	32.80	37.30	35.47	1.02	0.03
Adams Key	115	33	30.80	38.30	34.43	2.02	0.06
Rubicon Keys	116	39	30.00	38.00	34.24	2.20	0.06
Totten Key	117	33	25.50	37.90	32.67	3.32	0.10
Broad Creek	118	33	28.50	37.50	33.95	2.44	0.07
Pumpkin Key	119	33	25.40	36.90	31.92	2.82	0.09
Card Bank, G-17	120	33	20.90	37.00	30.31	4.03	0.13
North Card Sound	121	40	25.90	37.70	32.43	2.93	0.09
West Arsenicker	122	40	21.70	38.10	30.36	4.56	0.15
Pelican Bank	123	40	24.20	38.50	31.64	3.78	0.12
South Midbay	124	40	29.60	38.10	34.17	2.34	0.07
Turkey Point Channel	125	33	23.80	38.00	31.50	3.94	0.13
BNP Marker "B"	126	7	31.40	36.30	33.40	1.81	0.05
Shoal Point	127	7	26.40	34.40	31.34	2.63	0.08
Matheson Beach	128	7	26.50	33.20	30.66	2.76	0.09
Marker G-71	129	7	29.80	34.80	32.69	1.69	0.05
South Dodge Island	130	7	30.10	35.60	33.49	1.72	0.05
North Venetian Basin	131	7	29.20	32.70	31.49	1.24	0.04
North I-195 Basin	132	7	26.10	32.70	29.73	2.55	0.09
North Normandy Isle	133	7	29.30	33.80	31.94	1.83	0.06
Oleta River Park	134	7	32.10	35.60	34.63	1.19	0.03
South Card Sound	135	7	28.90	33.70	31.20	2.24	0.07
All Stations		35	12.80	38.60	32.48	2.48	0.08

POR = Period of Record as indicated on Table 1.

Table 18b: Biscayne Bay Bottom Salinity (ppt)

Station Name	Station Number	Mean 1994	S.D. 1994	Mean 1995	S.D. 1995	Mean 1996	S.D. 1996
Convoy Point	101	28.16	6.54	24.36	5.97	29.78	5.71
Black Point	102	27.37	6.13	22.09	4.68	27.29	6.15
Near Black Ledge	103	30.84	4.69	26.65	3.89	29.93	5.25
BNP Marker "C"	104	34.76	2.15	32.71	1.90	35.51	1.75
Bisc. Channel, G-21	105	34.23	2.27	33.20	2.02	36.06	1.40
Bisc. Channel, FWT	106	35.52	0.76	34.93	1.09	36.36	0.94
Fowey Rocks	107	35.73	0.58	35.77	0.36	36.26	0.24
Marker G-1B	108	35.05	1.62	33.99	1.52	35.82	1.31
North Midbay	109	35.08	2.26	32.79	2.18	35.50	1.82
Fender Point	110	30.23	5.78	24.63	5.16	30.89	4.46
Featherbed Bank	111	35.34	2.48	33.59	1.94	35.43	1.86
Sands Cut	112	35.43	1.27	34.88	0.93	35.78	1.28
Elliott Key	113	35.23	2.32	33.35	1.99	35.76	1.60
Caesar Creek, R-20	114	35.57	0.88	35.50	0.48	36.34	0.74
Adams Key	115	34.93	2.04	33.82	1.86	36.02	1.70
Rubicon Keys	116	34.86	2.20	32.99	2.30	35.38	1.59
Totten Key	117	34.13	3.31	30.63	3.16	34.48	2.66
Broad Creek	118	34.42	2.50	33.18	2.61	35.66	1.73
Pumpkin Key	119	33.34	2.70	30.13	2.64	33.24	2.39
Card Bank, G-17	120	32.14	3.65	27.48	3.70	32.70	3.35
North Card Sound	121	33.73	2.32	30.47	3.23	33.23	2.77
West Arsenicker	122	31.46	4.81	27.65	4.56	32.30	3.96
Pelican Bank	123	32.73	3.86	29.27	3.75	33.34	2.99
South Midbay	124	34.93	2.37	32.67	2.20	35.11	2.04
Turkey Point Channel	125	32.58	3.94	29.56	3.65	34.58	3.33
BNP Marker "B"	126					33.40	1.81
Shoal Point	127					31.34	2.63
Matheson Beach	128					30.66	2.76
Marker G-71	129					32.69	1.69
South Dodge Island	130					33.49	1.72
North Venetian Basin	131					31.49	1.24
North I-195 Basin	132					29.73	2.55
North Normandy Isle	133					31.94	1.83
Oleta River Park	134					34.63	1.19
South Card Sound	135					31.20	2.24
All Stations		33.51	2.32	31.05	3.75	33.52	2.38

Table 19a: Biscayne Bay Surface Dissolved Oxygen (mg/l)

Station Name	Station Number	N POR	Min POR	Max POR	Mean POR	S.D. POR	Coef. Var. POR
Convoy Point	101	39	4.80	9.30	7.18	1.24	0.17
Black Point	102	39	4.40	10.50	7.21	1.33	0.19
Near Black Ledge	103	40	4.30	11.30	6.81	1.28	0.19
BNP Marker "C"	104	40	5.00	8.40	6.29	0.66	0.11
Bisc. Channel, G-21	105	33	5.20	7.20	6.21	0.55	0.09
Bisc. Channel, FWT	106	33	4.50	7.20	6.31	0.65	0.10
Fowey Rocks	107	33	4.80	7.30	6.36	0.54	0.08
Marker G-1B	108	39	4.60	7.40	6.28	0.78	0.12
North Midbay	109	39	4.60	7.80	6.37	0.70	0.11
Fender Point	110	39	4.60	8.60	6.85	1.06	0.16
Featherbed Bank	111	40	4.10	7.70	6.19	0.73	0.12
Sands Cut	112	40	3.80	7.40	5.83	0.88	0.15
Elliott Key	113	40	5.10	7.70	6.35	0.59	0.09
Caesar Creek, R-20	114	33	5.20	7.60	6.34	0.62	0.10
Adams Key	115	33	4.70	8.00	6.13	0.82	0.13
Rubicon Keys	116	40	3.80	7.80	6.10	0.87	0.14
Totten Key	117	33	4.60	7.60	6.34	0.71	0.11
Broad Creek	118	33	4.70	7.90	6.25	0.88	0.14
Pumpkin Key	119	33	5.40	7.80	6.47	0.64	0.10
Card Bank, G-17	120	33	5.30	7.60	6.43	0.61	0.09
North Card Sound	121	40	4.00	7.90	6.42	0.78	0.12
West Arsenicker	122	40	5.30	8.70	6.81	0.74	0.11
Pelican Bank	123	40	4.90	7.80	6.38	0.71	0.11
South Midbay	124	40	5.00	7.30	6.36	0.54	0.09
Turkey Point Channel	125	33	5.20	7.40	6.32	0.62	0.10
BNP Marker "B"	126	7	6.00	7.60	6.36	0.58	0.09
Shoal Point	127	7	4.80	7.80	5.99	0.99	0.16
Matheson Beach	128	7	4.30	7.50	5.96	0.97	0.16
Marker G-71	129	7	5.50	6.40	5.97	0.39	0.06
South Dodge Island	130	7	5.40	6.20	5.86	0.28	0.05
North Venetian Basin	131	7	5.30	6.70	5.80	0.51	0.09
North I-195 Basin	132	7	4.90	7.40	6.16	0.80	0.13
North Normandy Isle	133	7	5.90	6.40	6.20	0.20	0.03
Oleta River Park	134	7	5.70	6.60	6.03	0.33	0.05
South Card Sound	135	7	5.90	7.40	6.47	0.51	0.08
All Stations		35	3.80	11.30	6.32	0.33	0.05

POR = Period of Record as indicated on Table 1.

Table 19b: Biscayne Bay Surface Dissolved Oxygen (mg/l)

Station Name	Station Number	Mean 1994	S.D. 1994	Mean 1995	S.D. 1995	Mean 1996	S.D. 1996
Convoy Point	101	7.10	1.09	7.48	1.32	6.87	1.13
Black Point	102	7.00	0.96	7.38	1.45	7.33	1.54
Near Black Ledge	103	6.72	0.91	6.57	1.21	7.20	1.69
BNP Marker "C"	104	6.07	0.60	6.48	0.77	6.43	0.53
Bisc. Channel, G-21	105	6.06	0.54	6.34	0.50	6.54	0.57
Bisc. Channel, FWT	106	6.19	0.66	6.34	0.74	6.72	0.37
Fowey Rocks	107	6.28	0.35	6.43	0.68	6.76	0.39
Marker G-1B	108	6.27	0.77	6.33	0.84	6.42	0.68
North Midbay	109	6.21	0.53	6.34	0.85	6.66	0.67
Fender Point	110	6.66	0.80	7.16	1.35	6.72	0.99
Featherbed Bank	111	5.92	0.72	6.30	0.60	6.49	0.56
Sands Cut	112	5.41	0.95	5.94	0.84	6.21	0.76
Elliott Key	113	6.24	0.75	6.41	0.58	6.44	0.52
Caesar Creek, R-20	114	6.23	0.65	6.37	0.62	6.88	0.31
Adams Key	115	5.93	0.99	6.15	0.73	6.82	0.41
Rubicon Keys	116	5.76	1.10	6.22	0.91	6.34	0.64
Totten Key	117	6.23	0.87	6.39	0.66	6.74	0.36
Broad Creek	118	6.22	0.91	6.33	1.07	6.48	0.54
Pumpkin Key	119	6.30	0.67	6.59	0.64	6.86	0.50
Card Bank, G-17	120	6.21	0.65	6.63	0.51	6.80	0.52
North Card Sound	121	6.18	1.03	6.58	0.68	6.55	0.65
West Arsenicker	122	6.48	0.65	7.02	0.83	6.98	0.68
Pelican Bank	123	6.09	0.74	6.44	0.75	6.60	0.63
South Midbay	124	6.28	0.55	6.40	0.51	6.45	0.51
Turkey Point Channel	125	6.18	0.63	6.31	0.66	6.58	0.70
BNP Marker "B"	126					6.36	0.58
Shoal Point	127					5.99	0.99
Matheson Beach	128					5.96	0.97
Marker G-71	129					5.97	0.39
South Dodge Island	130					5.86	0.28
North Venetian Basin	131					5.80	0.51
North I-195 Basin	132					6.16	0.80
North Normandy Isle	133					6.20	0.20
Oleta River Park	134					6.03	0.33
South Card Sound	135					6.47	0.51
All Stations		6.25	0.35	6.52	0.37	6.50	0.37

Table 20a: Biscayne Bay 1m Dissolved Oxygen (mg/l)

Station Name	Station Number	N POR	Min POR	Max POR	Mean POR	S.D. POR	Coef. Var. POR
Convoy Point	101	25	4.90	12.90	7.70	1.63	0.21
Black Point	102	25	4.40	9.60	7.48	1.27	0.17
Near Black Ledge	103	26	4.40	8.40	6.85	1.09	0.16
BNP Marker "C"	104	26	5.20	8.40	6.32	0.71	0.11
Bisc. Channel, G-21	105	26	5.30	7.30	6.27	0.56	0.09
Bisc. Channel, FWT	106	26	4.40	7.20	6.32	0.70	0.11
Fowey Rocks	107	26	4.80	7.40	6.40	0.55	0.09
Marker G-1B	108	25	4.80	7.54	6.42	0.82	0.13
North Midbay	109	25	4.70	7.50	6.40	0.72	0.11
Fender Point	110	25	4.60	8.90	7.04	1.15	0.16
Featherbed Bank	111	26	4.80	7.70	6.23	0.71	0.11
Sands Cut	112	26	3.70	7.40	5.72	1.01	0.18
Elliott Key	113	27	5.30	7.60	6.36	0.63	0.10
Caesar Creek, R-20	114	27	5.20	7.60	6.38	0.63	0.10
Adams Key	115	27	4.60	8.00	6.13	0.91	0.15
Rubicon Keys	116	27	3.80	7.70	6.11	1.00	0.16
Totten Key	117	27	4.40	7.60	6.36	0.77	0.12
Broad Creek	118	27	4.70	8.00	6.30	0.94	0.15
Pumpkin Key	119	27	5.30	7.80	6.51	0.67	0.10
Card Bank, G-17	120	27	5.00	7.70	6.44	0.72	0.11
North Card Sound	121	27	4.10	7.90	6.50	0.88	0.14
West Arsenicker	122	27	5.30	8.80	6.90	0.90	0.13
Pelican Bank	123	27	5.00	7.50	6.33	0.73	0.11
South Midbay	124	26	5.30	7.30	6.37	0.52	0.08
Turkey Point Channel	125	26	5.10	7.50	6.23	0.69	0.11
BNP Marker "B"	126	0					
Shoal Point	127	0					
Matheson Beach	128	0					
Marker G-71	129	0					
South Dodge Island	130	0					
North Venetian Basin	131	0					
North I-195 Basin	132	0					
North Normandy Isle	133	0					
Oleta River Park	134	0					
South Card Sound	135	0					
All Stations		35	3.70	12.90	6.48	0.42	0.07

POR = Period of Record as indicated on Table 1.

Table 20b: Biscayne Bay 1m Dissolved Oxygen (mg/l)

Station Name	Station Number	Mean 1994	S.D. 1994	Mean 1995	S.D. 1995	Mean 1996	S.D. 1996
Convoy Point	101	7.93	2.30	7.55	1.29	7.63	0.94
Black Point	102	7.16	0.97	7.54	1.48	8.03	1.26
Near Black Ledge	103	6.73	0.97	6.58	1.20	7.70	0.64
BNP Marker "C"	104	5.96	0.60	6.46	0.77	6.66	0.51
Bisc. Channel, G-21	105	6.00	0.62	6.35	0.49	6.56	0.50
Bisc. Channel, FWT	106	6.09	0.74	6.33	0.74	6.72	0.38
Fowey Rocks	107	6.18	0.34	6.41	0.66	6.78	0.43
Marker G-1B	108	6.28	0.90	6.36	0.86	6.93	0.38
North Midbay	109	6.14	0.58	6.35	0.79	7.10	0.34
Fender Point	110	6.72	0.80	7.23	1.40	7.18	1.09
Featherbed Bank	111	5.84	0.74	6.28	0.59	6.80	0.58
Sands Cut	112	5.19	1.00	5.88	0.89	6.32	0.98
Elliott Key	113	6.11	0.74	6.40	0.58	6.74	0.33
Caesar Creek, R-20	114	6.17	0.64	6.37	0.66	6.84	0.38
Adams Key	115	5.76	1.07	6.14	0.78	6.82	0.40
Rubicon Keys	116	5.65	1.11	6.23	0.93	6.76	0.55
Totten Key	117	6.13	0.98	6.41	0.68	6.72	0.36
Broad Creek	118	6.15	0.97	6.34	1.10	6.52	0.51
Pumpkin Key	119	6.25	0.70	6.58	0.65	6.88	0.51
Card Bank, G-17	120	6.03	0.78	6.63	0.59	6.80	0.56
North Card Sound	121	6.12	1.11	6.62	0.72	6.98	0.42
West Arsenicker	122	6.50	1.00	7.03	0.86	7.36	0.44
Pelican Bank	123	6.01	0.70	6.41	0.79	6.76	0.27
South Midbay	124	6.18	0.52	6.36	0.53	6.74	0.39
Turkey Point Channel	125	5.97	0.70	6.25	0.68	6.64	0.64
BNP Marker "B"	126						
Shoal Point	127						
Matheson Beach	128						
Marker G-71	129						
South Dodge Island	130						
North Venetian Basin	131						
North I-195 Basin	132						
North Normandy Isle	133						
Oleta River Park	134						
South Card Sound	135						
All Stations		6.21	0.52	6.52	0.41	6.92	0.39

Table 21a: Biscayne Bay Bottom Dissolved Oxygen (mg/l)

Station Name	Station Number	N POR	Min POR	Max POR	Mean POR	S.D. POR	Coef. Var. POR
Convoy Point	101	39	4.70	12.90	7.91	1.81	0.23
Black Point	102	39	4.40	10.40	7.44	1.46	0.20
Near Black Ledge	103	40	4.40	11.20	6.88	1.25	0.18
BNP Marker "C"	104	40	4.90	8.40	6.26	0.68	0.11
Bisc. Channel, G-21	105	33	5.20	7.30	6.19	0.56	0.09
Bisc. Channel, FWT	106	33	4.80	7.20	6.32	0.60	0.10
Fowey Rocks	107	33	4.80	7.50	6.34	0.56	0.09
Marker G-1B	108	39	4.60	7.60	6.31	0.79	0.13
North Midbay	109	39	4.60	7.70	6.41	0.70	0.11
Fender Point	110	39	4.70	9.30	7.05	1.14	0.16
Featherbed Bank	111	40	4.10	9.20	6.27	0.86	0.14
Sands Cut	112	40	3.40	7.40	5.78	0.95	0.16
Elliott Key	113	40	5.30	7.60	6.36	0.58	0.09
Caesar Creek, R-20	114	33	5.20	7.60	6.38	0.66	0.10
Adams Key	115	33	4.70	8.00	6.15	0.85	0.14
Rubicon Keys	116	40	3.90	7.70	6.14	0.85	0.14
Totten Key	117	33	4.70	7.60	6.39	0.69	0.11
Broad Creek	118	33	4.70	7.70	6.26	0.85	0.14
Pumpkin Key	119	33	5.10	7.90	6.45	0.77	0.12
Card Bank, G-17	120	33	4.60	8.00	6.39	0.88	0.14
North Card Sound	121	40	4.20	8.80	6.46	0.87	0.13
West Arsenicker	122	40	5.20	8.90	6.87	0.84	0.12
Pelican Bank	123	40	5.00	7.90	6.38	0.70	0.11
South Midbay	124	40	5.00	7.40	6.37	0.53	0.08
Turkey Point Channel	125	33	5.10	7.50	6.24	0.65	0.10
BNP Marker "B"	126	7	6.00	7.50	6.46	0.55	0.08
Shoal Point	127	7	4.90	7.90	6.34	1.18	0.19
Matheson Beach	128	7	5.00	7.40	6.29	0.80	0.13
Marker G-71	129	7	5.30	6.30	6.01	0.39	0.07
South Dodge Island	130	7	5.30	6.20	5.89	0.31	0.05
North Venetian Basin	131	7	5.00	6.70	5.91	0.59	0.10
North I-195 Basin	132	7	5.00	7.40	6.23	0.81	0.13
North Normandy Isle	133	7	5.00	6.70	6.13	0.56	0.09
Oleta River Park	134	7	5.50	6.30	5.99	0.30	0.05
South Card Sound	135	7	5.80	7.40	6.46	0.55	0.09
All Stations		35	3.40	12.90	6.39	0.41	0.06

POR = Period of Record as indicated on Table 1.

Table 21b: Biscayne Bay Bottom Dissolved Oxygen (mg/l)

Station Name	Station Number	Mean 1994	S.D. 1994	Mean 1995	S.D. 1995	Mean 1996	S.D. 1996
Convoy Point	101	8.21	2.20	7.93	1.62	7.69	1.77
Black Point	102	7.21	1.05	7.86	1.68	7.37	1.61
Near Black Ledge	103	6.82	0.92	6.65	1.19	7.23	1.64
BNP Marker "C"	104	6.03	0.60	6.45	0.80	6.42	0.54
Bisc. Channel, G-21	105	6.04	0.56	6.29	0.53	6.60	0.52
Bisc. Channel, FWT	106	6.23	0.61	6.33	0.66	6.76	0.36
Fowey Rocks	107	6.23	0.33	6.40	0.68	6.80	0.51
Marker G-1B	108	6.30	0.76	6.38	0.86	6.43	0.72
North Midbay	109	6.28	0.54	6.34	0.82	6.71	0.70
Fender Point	110	6.89	0.90	7.38	1.43	6.97	1.11
Featherbed Bank	111	6.22	1.16	6.24	0.61	6.51	0.57
Sands Cut	112	5.44	1.02	5.78	1.00	6.20	0.78
Elliott Key	113	6.27	0.72	6.43	0.62	6.41	0.49
Caesar Creek, R-20	114	6.33	0.69	6.38	0.66	6.90	0.46
Adams Key	115	5.98	1.00	6.12	0.81	6.84	0.46
Rubicon Keys	116	5.88	1.03	6.26	0.94	6.34	0.64
Totten Key	117	6.29	0.85	6.48	0.61	6.76	0.40
Broad Creek	118	6.24	0.93	6.28	1.01	6.58	0.45
Pumpkin Key	119	6.32	0.77	6.48	0.85	6.96	0.63
Card Bank, G-17	120	6.03	0.93	6.67	0.80	6.94	0.78
North Card Sound	121	6.17	1.06	6.79	0.89	6.48	0.70
West Arsenicker	122	6.61	0.91	7.03	0.88	6.99	0.81
Pelican Bank	123	6.11	0.64	6.43	0.80	6.57	0.67
South Midbay	124	6.33	0.53	6.37	0.51	6.51	0.50
Turkey Point Channel	125	5.98	0.64	6.18	0.67	6.70	0.58
BNP Marker "B"	126					6.46	0.55
Shoal Point	127					6.34	1.18
Matheson Beach	128					6.29	0.80
Marker G-71	129					6.01	0.39
South Dodge Island	130					5.89	0.31
North Venetian Basin	131					5.91	0.59
North I-195 Basin	132					6.23	0.81
North Normandy Isle	133					6.13	0.56
Oleta River Park	134					5.99	0.30
South Card Sound	135					6.46	0.55
All Stations		6.34	0.52	6.56	0.51	6.58	0.41

Table 22a: Biscayne Bay Surface Temperature (oC)

Station Name	Station Number	N POR	Min POR	Max POR	Mean POR	S.D. POR	Coef. Var. POR
Convoy Point	101	40	20.20	32.00	26.91	3.69	0.14
Black Point	102	40	20.10	31.70	26.69	3.67	0.14
Near Black Ledge	103	40	20.20	31.60	26.57	3.55	0.13
BNP Marker "C"	104	40	18.60	31.20	26.23	3.69	0.14
Bisc. Channel, G-21	105	33	20.20	31.30	26.09	3.41	0.13
Bisc. Channel, FWT	106	33	21.20	30.50	26.50	2.92	0.11
Fowey Rocks	107	33	21.60	30.30	26.72	2.47	0.09
Marker G-1B	108	40	20.60	31.60	26.47	3.50	0.13
North Midbay	109	40	19.10	31.20	26.44	3.65	0.14
Fender Point	110	40	20.20	31.70	26.73	3.64	0.14
Featherbed Bank	111	40	19.30	31.50	26.21	3.70	0.14
Sands Cut	112	40	19.90	32.00	26.24	3.64	0.14
Elliott Key	113	40	19.40	31.70	26.24	3.63	0.14
Caesar Creek, R-20	114	33	20.90	32.40	26.52	3.32	0.13
Adams Key	115	33	20.40	31.80	26.20	3.38	0.13
Rubicon Keys	116	40	19.90	32.30	26.48	3.53	0.13
Totten Key	117	33	19.90	32.30	26.15	3.47	0.13
Broad Creek	118	33	20.20	31.80	26.22	3.41	0.13
Pumpkin Key	119	33	19.90	31.90	26.43	3.53	0.13
Card Bank, G-17	120	33	20.50	32.50	26.53	3.38	0.13
North Card Sound	121	40	19.90	32.40	26.55	3.57	0.13
West Arsenicker	122	40	19.60	32.50	26.66	3.50	0.13
Pelican Bank	123	40	19.60	31.90	26.30	3.54	0.13
South Midbay	124	40	18.90	31.20	26.17	3.71	0.14
Turkey Point Channel	125	33	19.20	30.70	25.76	3.48	0.14
BNP Marker "B"	126	7	21.80	31.00	27.47	3.83	0.14
Shoal Point	127	7	21.60	31.00	27.66	3.75	0.14
Matheson Beach	128	7	20.80	31.20	27.59	3.94	0.14
Marker G-71	129	7	22.90	30.80	27.60	3.42	0.12
South Dodge Island	130	7	22.70	31.00	27.83	3.34	0.12
North Venetian Basin	131	7	22.60	30.90	27.71	3.53	0.13
North I-195 Basin	132	7	21.40	31.20	27.46	4.11	0.15
North Normandy Isle	133	7	22.10	31.00	27.77	4.06	0.15
Oleta River Park	134	7	23.10	31.00	27.80	3.44	0.12
South Card Sound	135	7	20.80	31.60	27.60	4.20	0.15
All Stations		35	18.60	32.50	26.76	0.61	0.02

POR = Period of Record as indicated on Table 1.

Table 22b: Biscayne Bay Surface Temperature (oC)

Station Name	Station Number	Mean 1994	S.D. 1994	Mean 1995	S.D. 1995	Mean 1996	S.D. 1996
Convoy Point	101	27.38	3.39	26.84	3.94	26.93	4.13
Black Point	102	27.04	3.49	26.61	3.88	26.75	3.99
Near Black Ledge	103	26.94	3.47	26.68	3.66	26.38	3.94
BNP Marker "C"	104	26.61	3.39	26.40	3.90	25.87	4.14
Bisc. Channel, G-21	105	26.57	3.37	26.52	3.51	24.22	3.57
Bisc. Channel, FWT	106	26.87	2.61	26.83	3.34	24.64	3.20
Fowey Rocks	107	27.17	2.03	26.87	2.99	24.94	2.47
Marker G-1B	108	26.79	3.40	26.46	3.80	26.48	3.72
North Midbay	109	26.75	3.40	26.60	3.86	26.17	4.10
Fender Point	110	27.08	3.38	26.73	3.83	26.75	4.08
Featherbed Bank	111	26.39	3.58	26.33	3.72	26.16	4.15
Sands Cut	112	26.26	3.37	26.30	3.84	26.39	4.05
Elliott Key	113	26.63	3.19	26.31	4.14	26.12	3.93
Caesar Creek, R-20	114	27.56	3.06	26.60	3.70	24.40	2.77
Adams Key	115	26.68	3.04	26.65	4.02	24.64	2.76
Rubicon Keys	116	26.69	3.05	26.64	4.10	26.48	3.79
Totten Key	117	26.76	3.05	26.50	4.20	24.58	2.70
Broad Creek	118	26.79	3.17	26.55	4.07	24.72	2.52
Pumpkin Key	119	26.97	3.22	26.93	4.17	24.58	2.73
Card Bank, G-17	120	26.92	3.05	27.01	4.17	25.12	2.31
North Card Sound	121	26.89	2.96	26.70	4.21	26.42	3.86
West Arsenicker	122	26.98	3.00	26.74	4.22	26.68	3.60
Pelican Bank	123	26.51	3.05	26.33	4.05	26.43	3.84
South Midbay	124	26.38	3.46	26.37	3.84	25.98	4.22
Turkey Point Channel	125	26.14	3.21	26.22	3.82	24.14	3.67
BNP Marker "B"	126					27.47	3.83
Shoal Point	127					27.66	3.75
Matheson Beach	128					27.59	3.94
Marker G-71	129					27.60	3.42
South Dodge Island	130					27.83	3.34
North Venetian Basin	131					27.71	3.53
North I-195 Basin	132					27.46	4.11
North Normandy Isle	133					27.77	4.06
Oleta River Park	134					27.80	3.44
South Card Sound	135					27.60	4.20
All Stations		26.79	0.33	26.59	0.22	26.24	1.21

Table 23a: Biscayne Bay 1m Temperature (oC)

Station Name	Station Number	N POR	Min POR	Max POR	Mean POR	S.D. POR	Coef. Var. POR
Convoy Point	101	26	20.90	32.00	27.20	3.67	0.13
Black Point	102	26	20.30	31.70	26.90	3.61	0.13
Near Black Ledge	103	26	19.70	31.60	26.84	3.57	0.13
BNP Marker "C"	104	26	18.60	31.20	26.35	3.72	0.14
Bisc. Channel, G-21	105	26	20.20	31.30	26.48	3.38	0.13
Bisc. Channel, FWT	106	26	20.90	30.50	26.69	3.06	0.11
Fowey Rocks	107	26	21.60	30.30	26.84	2.66	0.10
Marker G-1B	108	26	20.60	31.60	26.69	3.53	0.13
North Midbay	109	26	18.70	31.20	26.57	3.71	0.14
Fender Point	110	26	20.80	31.80	26.97	3.59	0.13
Featherbed Bank	111	26	19.30	31.30	26.34	3.63	0.14
Sands Cut	112	26	20.50	30.90	26.28	3.49	0.13
Elliott Key	113	27	19.40	31.70	26.40	3.48	0.13
Caesar Creek, R-20	114	27	20.90	31.40	26.56	3.20	0.12
Adams Key	115	27	20.40	31.80	26.62	3.34	0.13
Rubicon Keys	116	27	19.90	32.30	26.64	3.37	0.13
Totten Key	117	27	19.90	32.30	26.60	3.42	0.13
Broad Creek	118	27	20.20	31.80	26.71	3.35	0.13
Pumpkin Key	119	27	19.90	31.90	26.89	3.46	0.13
Card Bank, G-17	120	27	20.50	32.50	26.99	3.34	0.12
North Card Sound	121	26	19.90	32.30	26.62	3.45	0.13
West Arsenicker	122	27	19.60	32.70	26.92	3.33	0.12
Pelican Bank	123	27	19.60	31.80	26.43	3.34	0.13
South Midbay	124	26	18.90	31.20	26.29	3.65	0.14
Turkey Point Channel	125	26	19.20	30.80	26.21	3.56	0.14
BNP Marker "B"	126	0					
Shoal Point	127	0					
Matheson Beach	128	0					
Marker G-71	129	0					
South Dodge Island	130	0					
North Venetian Basin	131	0					
North I-195 Basin	132	0					
North Normandy Isle	133	0					
Oleta River Park	134	0					
South Card Sound	135	0					
All Stations		35	18.60	32.70	26.64	0.26	0.01

POR = Period of Record as indicated on Table 1.

Table 23b: Biscayne Bay 1m Temperature (oC)

Station Name	Station Number	Mean 1994	S.D. 1994	Mean 1995	S.D. 1995	Mean 1996	S.D. 1996
Convoy Point	101	28.57	2.93	26.84	3.96	25.62	3.99
Black Point	102	28.17	3.02	26.60	3.89	25.34	3.85
Near Black Ledge	103	28.03	2.98	26.68	3.67	25.10	4.23
BNP Marker "C"	104	27.66	2.86	26.42	3.92	23.84	3.99
Bisc. Channel, G-21	105	27.68	2.77	26.53	3.51	24.22	3.57
Bisc. Channel, FWT	106	27.67	2.25	26.84	3.29	24.58	3.29
Fowey Rocks	107	27.88	1.77	26.88	3.00	24.88	2.45
Marker G-1B	108	27.88	2.96	26.45	3.81	25.12	3.75
North Midbay	109	27.78	2.94	26.59	3.92	24.32	4.13
Fender Point	110	28.16	3.02	26.74	3.85	25.40	3.89
Featherbed Bank	111	27.41	3.21	26.36	3.75	24.38	3.97
Sands Cut	112	27.27	2.95	26.30	3.85	24.48	3.43
Elliott Key	113	27.53	2.47	26.33	4.14	24.30	3.01
Caesar Creek, R-20	114	27.58	2.38	26.61	3.70	24.40	2.77
Adams Key	115	27.59	2.38	26.65	4.02	24.60	2.83
Rubicon Keys	116	27.60	2.43	26.65	4.10	24.72	2.70
Totten Key	117	27.70	2.34	26.53	4.19	24.58	2.73
Broad Creek	118	27.79	2.36	26.63	4.11	24.74	2.50
Pumpkin Key	119	27.97	2.40	26.93	4.18	24.60	2.76
Card Bank, G-17	120	27.91	2.34	27.03	4.14	25.02	2.41
North Card Sound	121	27.56	2.38	26.73	4.22	24.68	2.70
West Arsenicker	122	27.96	2.29	26.73	4.21	25.30	2.31
Pelican Bank	123	27.42	2.48	26.33	4.05	24.68	2.72
South Midbay	124	27.46	2.99	26.38	3.85	23.98	3.87
Turkey Point Channel	125	27.32	2.97	26.24	3.82	24.14	3.67
BNP Marker "B"	126						
Shoal Point	127						
Matheson Beach	128						
Marker G-71	129						
South Dodge Island	130						
North Venetian Basin	131						
North I-195 Basin	132						
North Normandy Isle	133						
Oleta River Park	134						
South Card Sound	135						
All Stations		27.74	0.30	26.60	0.21	24.68	0.45

Table 24a: Biscayne Bay Bottom Temperature (oC)

Station Name	Station Number	N POR	Min POR	Max POR	Mean POR	S.D. POR	Coef. Var. POR
Convoy Point	101	40	20.20	32.00	26.99	3.76	0.14
Black Point	102	40	20.10	31.70	26.69	3.70	0.14
Near Black Ledge	103	40	19.80	31.60	26.57	3.57	0.13
BNP Marker "C"	104	40	18.60	31.20	26.22	3.72	0.14
Bisc. Channel, G-21	105	33	20.10	31.30	26.14	3.40	0.13
Bisc. Channel, FWT	106	33	20.30	30.60	26.50	2.92	0.11
Fowey Rocks	107	33	21.60	30.30	26.68	2.47	0.09
Marker G-1B	108	40	20.60	31.70	26.48	3.52	0.13
North Midbay	109	40	18.60	31.20	26.41	3.70	0.14
Fender Point	110	40	20.20	31.70	26.73	3.64	0.14
Featherbed Bank	111	40	19.30	31.50	26.23	3.72	0.14
Sands Cut	112	40	19.90	32.00	26.25	3.66	0.14
Elliott Key	113	40	19.40	31.70	26.22	3.63	0.14
Caesar Creek, R-20	114	33	21.10	32.40	26.49	3.30	0.12
Adams Key	115	33	20.40	32.00	26.19	3.40	0.13
Rubicon Keys	116	40	19.90	32.00	26.50	3.53	0.13
Totten Key	117	33	19.90	32.30	26.17	3.47	0.13
Broad Creek	118	33	20.20	31.80	26.25	3.43	0.13
Pumpkin Key	119	33	20.20	33.80	26.54	3.73	0.14
Card Bank, G-17	120	33	20.50	32.80	26.49	3.48	0.13
North Card Sound	121	40	19.90	32.20	26.60	3.57	0.13
West Arsenicker	122	40	19.60	32.70	26.69	3.53	0.13
Pelican Bank	123	40	19.60	32.00	26.33	3.54	0.13
South Midbay	124	40	18.90	31.30	26.20	3.72	0.14
Turkey Point Channel	125	33	19.20	30.80	25.93	3.50	0.14
BNP Marker "B"	126	7	21.80	31.00	27.27	3.89	0.14
Shoal Point	127	7	21.70	31.00	27.39	3.86	0.14
Matheson Beach	128	7	20.80	31.20	27.24	4.16	0.15
Marker G-71	129	7	22.30	30.80	27.44	3.57	0.13
South Dodge Island	130	7	22.40	31.00	27.76	3.36	0.12
North Venetian Basin	131	7	22.50	30.80	27.50	3.69	0.13
North I-195 Basin	132	7	21.40	31.30	27.33	4.10	0.15
North Normandy Isle	133	7	22.40	31.70	27.64	3.88	0.14
Oleta River Park	134	7	22.80	30.00	27.27	3.05	0.11
South Card Sound	135	7	20.80	31.90	27.79	4.22	0.15
All Stations		35	18.60	33.80	26.72	0.53	0.02

POR = Period of Record as indicated on Table 1.

Table 24b: Biscayne Bay Bottom Temperature (oC)

Station Name	Station Number	Mean 1994	S.D. 1994	Mean 1995	S.D. 1995	Mean 1996	S.D. 1996
Convoy Point	101	27.50	3.40	26.94	4.06	26.99	4.21
Black Point	102	27.05	3.49	26.62	3.91	26.74	4.07
Near Black Ledge	103	26.94	3.47	26.69	3.66	26.34	3.98
BNP Marker "C"	104	26.58	3.40	26.44	3.94	25.86	4.17
Bisc. Channel, G-21	105	26.63	3.36	26.61	3.42	24.20	3.58
Bisc. Channel, FWT	106	26.92	2.59	26.84	3.23	24.48	3.43
Fowey Rocks	107	27.10	1.98	26.87	3.00	24.84	2.50
Marker G-1B	108	26.82	3.43	26.46	3.82	26.47	3.75
North Midbay	109	26.73	3.42	26.58	3.93	26.12	4.18
Fender Point	110	27.09	3.39	26.78	3.85	26.67	4.04
Featherbed Bank	111	26.38	3.59	26.39	3.77	26.18	4.17
Sands Cut	112	26.28	3.40	26.31	3.88	26.39	4.05
Elliott Key	113	26.58	3.16	26.33	4.15	26.08	3.95
Caesar Creek, R-20	114	27.48	3.01	26.63	3.67	24.34	2.82
Adams Key	115	26.67	3.04	26.67	4.04	24.60	2.83
Rubicon Keys	116	26.70	3.04	26.69	4.10	26.47	3.80
Totten Key	117	26.76	3.05	26.54	4.20	24.58	2.73
Broad Creek	118	26.31	3.15	26.59	4.14	24.72	2.52
Pumpkin Key	119	27.02	3.22	27.28	4.44	24.30	3.12
Card Bank, G-17	120	26.98	3.15	27.02	4.14	24.72	2.81
North Card Sound	121	26.98	2.96	26.73	4.20	26.46	3.87
West Arsenicker	122	27.04	3.04	26.78	4.24	26.69	3.62
Pelican Bank	123	26.52	3.08	26.34	4.05	26.48	3.81
South Midbay	124	26.43	3.47	26.40	3.87	25.98	4.22
Turkey Point Channel	125	26.48	3.23	26.33	3.82	24.14	3.67
BNP Marker "B"	126					27.27	3.89
Shoal Point	127					27.39	3.86
Matheson Beach	128					27.24	4.16
Marker G-71	129					27.44	3.57
South Dodge Island	130					27.76	3.36
North Venetian Basin	131					27.50	3.69
North I-195 Basin	132					27.33	4.10
North Normandy Isle	133					27.64	3.88
Oleta River Park	134					27.27	3.05
South Card Sound	135					27.79	4.22
All Stations		26.82	0.31	26.63	0.24	26.16	1.19

Table 1: Southwest Florida Shelf Station Summary

Station Number	Latitude	Longitude	Period of Record	Surveys
351	24 41.50	81 47.50	May 95 - Oct 96	1-6
352	24 46.55	81 46.98	May 95 - Oct 96	1-6
353	24 51.50	81 46.60	May 95 - Oct 96	1-6
354	24 56.48	81 46.12	May 95 - Oct 96	1-6
355	25 01.48	81 45.75	May 95 - Oct 96	1-6
356	25 06.46	81 45.23	May 95 - Oct 96	1-6
357	25 11.47	81 44.72	May 95 - Oct 96	1-6
358	25 16.48	81 44.29	May 95 - Oct 96	1-6
359	25 21.50	81 43.80	May 95 - Oct 96	1-6
360	25 26.47	81 43.26	May 95 - Oct 96	1-6
361	25 31.48	81 42.90	May 95 - Oct 96	1-6
362	25 36.52	81 42.40	May 95 - Oct 96	1-6
363	25 41.52	81 41.90	May 95 - Oct 96	1-6
364	25 41.50	81 32.00	May 95 - Oct 96	1-6
365	25 36.51	81 32.36	May 95 - Oct 96	1-6
366	25 31.56	81 32.93	May 95 - Oct 96	1-6
367	25 26.55	81 33.30	May 95 - Oct 96	1-6
368	25 21.51	81 33.80	May 95 - Oct 96	1-6
369	25 16.53	81 34.32	May 95 - Oct 96	1-6
370	25 11.51	81 34.75	May 95 - Oct 96	1-6
371	25 06.50	81 35.21	May 95 - Oct 96	1-6
372	25 01.50	81 35.72	May 95 - Oct 96	1-6
373	24 56.53	81 36.18	May 95 - Oct 96	1-6
374	24 51.53	81 36.65	May 95 - Oct 96	1-6
375	24 46.54	81 37.07	May 95 - Oct 96	1-6
376	24 50.60	81 26.30	May 95 - Oct 96	1-6
377	24 56.10	81 25.90	May 95 - Oct 96	1-6
378	25 01.00	81 24.95	May 95 - Oct 96	1-6
379	25 06.00	81 24.53	May 95 - Oct 96	1-6
380	25 11.00	81 24.00	May 95 - Oct 96	1-6
381	25 16.00	81 23.70	May 95 - Oct 96	1-6
382	25 21.00	81 23.20	May 95 - Oct 96	1-6
383	25 25.95	81 22.67	May 95 - Oct 96	1-6
384	25 30.93	81 22.20	May 95 - Oct 96	1-6
385	25 36.01	81 21.79	May 95 - Oct 96	1-6
386	25 33.33	81 20.43	May 95 - Oct 96	1-6
387	25 30.53	81 19.01	May 95 - Oct 96	1-6
388	25 25.50	81 17.82	May 95 - Oct 96	1-6
389	25 20.50	81 16.62	May 95 - Oct 96	1-6
390	25 15.60	81 15.61	May 95 - Oct 96	1-6
391	25 10.50	81 14.32	May 95 - Oct 96	1-6
392	25 05.50	81 14.90	May 95 - Oct 96	1-6
393	25 00.50	81 15.20	May 95 - Oct 96	1-6
394	24 55.50	81 15.60	May 95 - Oct 96	1-6
395	24 52.70	81 11.50	May 95 - Oct 96	1-6
396	24 50.00	81 07.70	May 95 - Oct 96	1-6
397	24 55.00	81 07.10	May 95 - Oct 96	1-6
398	25 00.00	81 06.60	May 95 - Oct 96	1-6
399	25 05.00	81 05.96	May 95 - Oct 96	1-6

Table 2: Southwest Florida Shelf Nitrate+Nitrite (mg/l of N)

Station Number	N POR	Min POR	Max POR	Mean POR	S.D. POR	Coef. Var. POR
351	6	0.0005	0.0022	0.0009	0.0007	0.7540
352	6	0.0001	0.0012	0.0006	0.0004	0.7157
353	6	0.0000	0.0014	0.0006	0.0005	0.9395
354	6	0.0001	0.0008	0.0004	0.0003	0.7119
355	6	0.0002	0.0014	0.0006	0.0004	0.7458
356	6	0.0003	0.0034	0.0010	0.0012	1.2111
357	6	0.0004	0.0012	0.0008	0.0003	0.3630
358	6	0.0002	0.0007	0.0004	0.0002	0.3533
359	6	0.0000	0.0027	0.0007	0.0010	1.5627
360	6	0.0002	0.0042	0.0009	0.0016	1.7071
361	6	0.0002	0.0019	0.0006	0.0007	1.1155
362	6	0.0002	0.0009	0.0006	0.0003	0.5266
363	6	0.0004	0.0014	0.0008	0.0004	0.5143
364	6	0.0002	0.0013	0.0007	0.0005	0.6588
365	6	0.0002	0.0013	0.0005	0.0005	0.9701
366	6	0.0003	0.0009	0.0006	0.0003	0.5154
367	6	0.0003	0.0014	0.0007	0.0004	0.5298
368	6	0.0002	0.0011	0.0006	0.0003	0.5253
369	6	0.0003	0.0123	0.0026	0.0047	1.8162
370	6	0.0003	0.0191	0.0037	0.0076	2.0586
371	6	0.0003	0.0235	0.0045	0.0093	2.0670
372	6	0.0003	0.0032	0.0012	0.0010	0.8500
373	6	0.0005	0.0095	0.0022	0.0036	1.5968
374	6	0.0005	0.0098	0.0022	0.0037	1.7010
375	6	0.0003	0.0065	0.0017	0.0024	1.3917
376	6	0.0002	0.0015	0.0008	0.0004	0.5770
377	6	0.0001	0.0006	0.0004	0.0002	0.5359
378	6	0.0001	0.0012	0.0007	0.0005	0.6635
379	6	0.0001	0.0016	0.0008	0.0006	0.7836
380	6	0.0003	0.0014	0.0007	0.0004	0.5812
381	6	0.0001	0.0020	0.0009	0.0008	0.8544
382	6	0.0005	0.0030	0.0013	0.0009	0.6904
383	6	0.0001	0.0022	0.0011	0.0008	0.7684
384	6	0.0000	0.0024	0.0009	0.0009	1.0089
385	6	0.0000	0.0033	0.0010	0.0012	1.1777
386	6	0.0001	0.0043	0.0012	0.0016	1.3841
387	6	0.0002	0.0040	0.0013	0.0014	1.0821
388	6	0.0004	0.0046	0.0016	0.0016	1.0190
389	6	0.0001	0.0010	0.0006	0.0003	0.5849
390	6	0.0002	0.0207	0.0044	0.0081	1.8415
391	6	0.0001	0.0018	0.0010	0.0006	0.6206
392	6	0.0002	0.0018	0.0010	0.0007	0.6715
393	6	0.0002	0.0010	0.0007	0.0004	0.5522
394	6	0.0001	0.0013	0.0007	0.0004	0.6688
395	6	0.0002	0.0071	0.0022	0.0026	1.1965
396	6	0.0005	0.0012	0.0008	0.0003	0.3864
397	6	0.0004	0.0012	0.0008	0.0003	0.4049
398	6	0.0002	0.0014	0.0006	0.0004	0.6688
399	6	0.0006	0.0349	0.0073	0.0136	1.8547
All Stations	49	0.0000	0.0349	0.0013	0.0013	1.0057

POR = Period of Record as indicated on Table 1.

Table 3: Southwest Florida Shelf Nitrate (mg/l of N)

Station Number	N POR	Min POR	Max POR	Mean POR	S.D. POR	Coef. Var. POR
351	6	0.0000	0.0020	0.0005	0.0008	1.6285
352	6	0.0000	0.0007	0.0002	0.0002	1.0868
353	6	0.0000	0.0007	0.0003	0.0003	1.1984
354	6	0.0000	0.0002	0.0000	0.0001	2.4495
355	6	0.0000	0.0003	0.0001	0.0001	2.4495
356	6	0.0000	0.0023	0.0004	0.0009	2.4052
357	6	0.0000	0.0005	0.0002	0.0002	0.9302
358	6	0.0000	0.0004	0.0001	0.0001	1.1952
359	6	0.0000	0.0021	0.0004	0.0008	2.1894
360	6	0.0000	0.0037	0.0007	0.0015	2.2023
361	6	0.0000	0.0014	0.0002	0.0006	2.3091
362	6	0.0000	0.0007	0.0003	0.0003	1.1655
363	6	0.0000	0.0007	0.0004	0.0003	0.6336
364	6	0.0000	0.0009	0.0004	0.0004	0.9498
365	6	0.0000	0.0011	0.0003	0.0005	1.5492
366	6	0.0000	0.0008	0.0003	0.0003	1.2122
367	6	0.0000	0.0007	0.0003	0.0003	0.9158
368	6	0.0000	0.0008	0.0003	0.0003	0.9828
369	6	0.0000	0.0122	0.0023	0.0049	2.1289
370	6	0.0000	0.0189	0.0032	0.0077	2.3707
371	6	0.0000	0.0233	0.0041	0.0094	2.3162
372	6	0.0000	0.0030	0.0007	0.0012	1.7230
373	6	0.0000	0.0095	0.0018	0.0038	2.0489
374	6	0.0000	0.0096	0.0019	0.0038	2.0116
375	6	0.0000	0.0063	0.0014	0.0025	1.7860
376	6	0.0000	0.0009	0.0003	0.0004	1.3014
377	6	0.0000	0.0003	0.0001	0.0001	1.7125
378	6	0.0000	0.0009	0.0004	0.0004	1.0080
379	6	0.0000	0.0012	0.0004	0.0006	1.2469
380	6	0.0000	0.0010	0.0003	0.0004	1.5079
381	6	0.0000	0.0014	0.0005	0.0007	1.4403
382	6	0.0000	0.0024	0.0007	0.0009	1.2211
383	6	0.0000	0.0015	0.0006	0.0007	1.1324
384	6	0.0000	0.0018	0.0007	0.0008	1.1263
385	6	0.0000	0.0032	0.0009	0.0012	1.4543
386	6	0.0000	0.0037	0.0009	0.0014	1.5733
387	6	0.0000	0.0035	0.0009	0.0013	1.3693
388	6	0.0003	0.0042	0.0013	0.0016	1.1900
389	6	0.0000	0.0004	0.0002	0.0002	0.7570
390	6	0.0000	0.0177	0.0036	0.0070	1.9649
391	6	0.0000	0.0013	0.0006	0.0005	0.8254
392	6	0.0000	0.0015	0.0006	0.0006	1.0640
393	6	0.0000	0.0009	0.0002	0.0004	1.4428
394	6	0.0000	0.0008	0.0003	0.0003	1.1968
395	6	0.0000	0.0057	0.0015	0.0023	1.5002
396	6	0.0000	0.0004	0.0001	0.0002	1.2555
397	6	0.0000	0.0004	0.0001	0.0002	1.6277
398	6	0.0000	0.0009	0.0002	0.0004	1.5246
399	6	0.0000	0.0306	0.0060	0.0121	2.0091
All Stations	49	0.0000	0.0306	0.0009	0.0025	2.9417

POR = Period of Record as indicated on Table 1.

Table 4: Southwest Florida Shelf Nitrite (mg/l of N)

Station Number	N POR	Min POR	Max POR	Mean POR	S.D. POR	Coef. Var. POR
351	6	0.0001	0.0007	0.0004	0.0002	0.5487
352	6	0.0001	0.0010	0.0004	0.0003	0.8946
353	6	0.0000	0.0007	0.0003	0.0003	0.8320
354	6	0.0001	0.0007	0.0004	0.0003	0.6606
355	6	0.0002	0.0011	0.0005	0.0003	0.5970
356	6	0.0002	0.0011	0.0006	0.0004	0.6058
357	6	0.0003	0.0009	0.0005	0.0003	0.5621
358	6	0.0001	0.0005	0.0003	0.0002	0.5018
359	6	0.0000	0.0006	0.0003	0.0002	0.8010
360	6	0.0001	0.0005	0.0003	0.0001	0.5317
361	6	0.0002	0.0006	0.0004	0.0001	0.3633
362	6	0.0001	0.0009	0.0003	0.0003	0.8509
363	6	0.0002	0.0007	0.0003	0.0002	0.5985
364	6	0.0001	0.0007	0.0003	0.0002	0.6630
365	6	0.0000	0.0002	0.0002	0.0001	0.4793
366	6	0.0001	0.0004	0.0003	0.0001	0.4055
367	6	0.0001	0.0014	0.0004	0.0005	1.1884
368	6	0.0000	0.0005	0.0003	0.0001	0.5044
369	6	0.0001	0.0005	0.0003	0.0002	0.6272
370	6	0.0002	0.0009	0.0004	0.0002	0.5610
371	6	0.0002	0.0009	0.0004	0.0002	0.5059
372	6	0.0001	0.0012	0.0005	0.0004	0.7353
373	6	0.0000	0.0014	0.0004	0.0005	1.1908
374	6	0.0002	0.0006	0.0003	0.0002	0.5731
375	6	0.0002	0.0005	0.0003	0.0001	0.3682
376	6	0.0002	0.0008	0.0005	0.0003	0.6031
377	6	0.0001	0.0006	0.0003	0.0001	0.5103
378	6	0.0000	0.0006	0.0003	0.0002	0.7246
379	6	0.0001	0.0006	0.0004	0.0002	0.4731
380	6	0.0003	0.0007	0.0004	0.0002	0.4041
381	6	0.0001	0.0007	0.0005	0.0002	0.4641
382	6	0.0004	0.0010	0.0006	0.0002	0.3452
383	6	0.0001	0.0009	0.0005	0.0003	0.6405
384	6	0.0000	0.0006	0.0002	0.0002	0.8983
385	6	0.0000	0.0004	0.0002	0.0002	1.0040
386	6	0.0000	0.0006	0.0003	0.0002	0.8954
387	6	0.0000	0.0006	0.0003	0.0002	0.6878
388	6	0.0000	0.0006	0.0003	0.0002	0.7542
389	6	0.0001	0.0006	0.0003	0.0002	0.6451
390	6	0.0002	0.0029	0.0008	0.0011	1.3130
391	6	0.0001	0.0006	0.0004	0.0002	0.5093
392	6	0.0002	0.0007	0.0004	0.0002	0.4616
393	6	0.0001	0.0009	0.0004	0.0003	0.7367
394	6	0.0001	0.0006	0.0004	0.0001	0.4091
395	6	0.0002	0.0014	0.0007	0.0005	0.7050
396	6	0.0004	0.0011	0.0006	0.0003	0.4431
397	6	0.0003	0.0011	0.0007	0.0003	0.4400
398	6	0.0002	0.0006	0.0004	0.0001	0.3153
399	6	0.0004	0.0043	0.0013	0.0015	1.1480
All Stations	49	0.0000	0.0043	0.0004	0.0002	0.5613

POR = Period of Record as indicated on Table 1.

Table 5: Southwest Florida Shelf Ammonium (mg/l of N)

Station Number	N POR	Min POR	Max POR	Mean POR	S.D. POR	Coef. Var. POR
351	6	0.0011	0.0126	0.0048	0.0042	0.8785
352	6	0.0016	0.0151	0.0055	0.0050	0.9179
353	6	0.0014	0.0111	0.0045	0.0038	0.8356
354	6	0.0015	0.0161	0.0055	0.0054	0.9854
355	6	0.0027	0.0079	0.0048	0.0023	0.4852
356	6	0.0026	0.0098	0.0051	0.0028	0.5496
357	6	0.0023	0.0188	0.0070	0.0062	0.8773
358	6	0.0019	0.0175	0.0054	0.0060	1.1049
359	6	0.0010	0.0134	0.0051	0.0047	0.9252
360	6	0.0011	0.0074	0.0042	0.0026	0.6230
361	6	0.0012	0.0083	0.0048	0.0028	0.5852
362	6	0.0016	0.0093	0.0048	0.0030	0.6268
363	6	0.0025	0.0097	0.0045	0.0028	0.6302
364	6	0.0019	0.0078	0.0044	0.0021	0.4838
365	6	0.0019	0.0093	0.0040	0.0028	0.7094
366	6	0.0023	0.0051	0.0035	0.0012	0.3360
367	6	0.0019	0.0106	0.0042	0.0032	0.7738
368	6	0.0030	0.0074	0.0043	0.0017	0.3997
369	6	0.0026	0.0086	0.0051	0.0024	0.4630
370	6	0.0027	0.0084	0.0041	0.0022	0.5245
371	6	0.0026	0.0070	0.0047	0.0017	0.3528
372	6	0.0007	0.0137	0.0060	0.0046	0.7787
373	6	0.0012	0.0114	0.0060	0.0045	0.7458
374	6	0.0017	0.0089	0.0050	0.0030	0.6004
375	6	0.0020	0.0098	0.0056	0.0032	0.5742
376	6	0.0011	0.0114	0.0043	0.0038	0.8765
377	6	0.0013	0.0083	0.0037	0.0027	0.7248
378	6	0.0013	0.0074	0.0040	0.0021	0.5230
379	6	0.0014	0.0058	0.0037	0.0018	0.4723
380	6	0.0009	0.0047	0.0031	0.0016	0.5049
381	6	0.0016	0.0051	0.0038	0.0015	0.3985
382	6	0.0023	0.0061	0.0045	0.0013	0.2758
383	6	0.0016	0.0105	0.0050	0.0032	0.6406
384	6	0.0010	0.0088	0.0044	0.0029	0.6588
385	6	0.0012	0.0167	0.0059	0.0056	0.9481
386	6	0.0016	0.0160	0.0077	0.0056	0.7314
387	6	0.0029	0.0106	0.0062	0.0029	0.4680
388	6	0.0023	0.0138	0.0056	0.0042	0.7457
389	6	0.0032	0.0125	0.0056	0.0036	0.6450
390	6	0.0032	0.0096	0.0061	0.0027	0.4439
391	6	0.0018	0.0096	0.0056	0.0029	0.5237
392	6	0.0018	0.0077	0.0044	0.0021	0.4756
393	6	0.0016	0.0223	0.0077	0.0074	0.9639
394	6	0.0022	0.0109	0.0057	0.0031	0.5519
395	6	0.0018	0.0141	0.0064	0.0050	0.7800
396	6	0.0025	0.0114	0.0057	0.0035	0.6042
397	6	0.0044	0.0144	0.0077	0.0039	0.5025
398	6	0.0022	0.0101	0.0053	0.0029	0.5493
399	6	0.0051	0.0190	0.0092	0.0050	0.5376
All Stations	49	0.0007	0.0223	0.0052	0.0012	0.2333

POR = Period of Record as indicated on Table 1.

Table 6: Southwest Florida Shelf Total Nitrogen (mg/l of N)

Station Number	N POR	Min POR	Max POR	Mean POR	S.D. POR	Coef. Var. POR
351	6	0.1905	0.2705	0.2335	0.0360	0.1541
352	6	0.1785	0.3241	0.2336	0.0548	0.2345
353	6	0.1816	0.3135	0.2275	0.0524	0.2303
354	6	0.1753	0.2987	0.2172	0.0437	0.2010
355	6	0.1740	0.2652	0.2043	0.0316	0.1547
356	6	0.1857	0.2848	0.2073	0.0383	0.1846
357	6	0.1853	0.3298	0.2216	0.0554	0.2500
358	6	0.1741	0.2964	0.2052	0.0495	0.2411
359	6	0.1830	0.2941	0.2122	0.0430	0.2026
360	6	0.1736	0.2754	0.2131	0.0348	0.1635
361	6	0.1944	0.2742	0.2205	0.0293	0.1331
362	6	0.1914	0.3559	0.2504	0.0648	0.2588
363	6	0.2171	0.3855	0.2958	0.0714	0.2414
364	6	0.2808	0.5189	0.3343	0.0915	0.2736
365	6	0.2381	0.3641	0.2769	0.0450	0.1624
366	6	0.1937	0.2859	0.2479	0.0339	0.1366
367	6	0.2335	0.2723	0.2512	0.0153	0.0609
368	6	0.2170	0.2674	0.2447	0.0178	0.0729
369	6	0.2110	0.3115	0.2533	0.0439	0.1734
370	6	0.2060	0.2789	0.2355	0.0333	0.1413
371	6	0.1808	0.3047	0.2271	0.0456	0.2010
372	6	0.1685	0.3550	0.2296	0.0658	0.2866
373	6	0.1609	0.3148	0.2300	0.0556	0.2417
374	6	0.1979	0.3037	0.2268	0.0390	0.1719
375	6	0.1719	0.3274	0.2243	0.0546	0.2434
376	6	0.1712	0.2579	0.2221	0.0372	0.1673
377	6	0.1739	0.2578	0.2144	0.0324	0.1511
378	6	0.1649	0.2563	0.2240	0.0355	0.1586
379	6	0.1741	0.2888	0.2264	0.0432	0.1906
380	6	0.2029	0.2925	0.2407	0.0304	0.1264
381	6	0.2020	0.2809	0.2412	0.0315	0.1307
382	6	0.1642	0.3466	0.2546	0.0718	0.2820
383	6	0.2011	0.3434	0.2820	0.0553	0.1960
384	6	0.1965	0.3372	0.2841	0.0496	0.1746
385	6	0.2093	0.4009	0.3242	0.0640	0.1976
386	6	0.1893	0.4005	0.3268	0.0784	0.2398
387	6	0.1952	0.4187	0.3123	0.0838	0.2684
388	6	0.1805	0.3710	0.2993	0.0733	0.2450
389	6	0.1897	0.3812	0.2713	0.0752	0.2770
390	6	0.2264	0.3836	0.2887	0.0550	0.1907
391	6	0.1884	0.5596	0.2947	0.1389	0.4714
392	6	0.1698	0.3274	0.2450	0.0593	0.2421
393	6	0.1754	0.3264	0.2253	0.0560	0.2486
394	6	0.1675	0.3321	0.2184	0.0610	0.2795
395	6	0.1757	0.3282	0.2392	0.0585	0.2445
396	6	0.1866	0.3176	0.2465	0.0448	0.1819
397	6	0.1913	0.3463	0.2607	0.0539	0.2067
398	6	0.1861	0.2802	0.2264	0.0431	0.1903
399	6	0.2892	0.3926	0.3241	0.0406	0.1253
All Stations	49	0.1609	0.5596	0.2493	0.0355	0.1423

POR = Period of Record as indicated on Table 1.

Table 7: Southwest Florida Shelf Total Inorganic Nitrogen (mg/l of N)

Station Number	N POR	Min POR	Max POR	Mean POR	S.D. POR	Coef. Var. POR
351	6	0.0016	0.0132	0.0057	0.0041	0.7189
352	6	0.0020	0.0156	0.0061	0.0052	0.8459
353	6	0.0021	0.0120	0.0051	0.0041	0.8094
354	6	0.0018	0.0169	0.0059	0.0056	0.9539
355	6	0.0033	0.0092	0.0054	0.0027	0.4954
356	6	0.0031	0.0109	0.0060	0.0035	0.5843
357	6	0.0028	0.0200	0.0078	0.0064	0.8180
358	6	0.0022	0.0179	0.0058	0.0060	1.0273
359	6	0.0010	0.0136	0.0058	0.0048	0.8332
360	6	0.0013	0.0103	0.0051	0.0035	0.6928
361	6	0.0015	0.0087	0.0054	0.0031	0.5759
362	6	0.0019	0.0100	0.0053	0.0031	0.5841
363	6	0.0034	0.0100	0.0053	0.0028	0.5323
364	6	0.0022	0.0082	0.0051	0.0023	0.4416
365	6	0.0021	0.0095	0.0045	0.0027	0.6005
366	6	0.0026	0.0058	0.0041	0.0012	0.2941
367	6	0.0024	0.0120	0.0049	0.0035	0.7235
368	6	0.0034	0.0079	0.0049	0.0017	0.3512
369	6	0.0032	0.0190	0.0077	0.0059	0.7673
370	6	0.0035	0.0222	0.0078	0.0074	0.9473
371	6	0.0039	0.0299	0.0092	0.0102	1.1078
372	6	0.0016	0.0169	0.0071	0.0055	0.7698
373	6	0.0018	0.0209	0.0082	0.0074	0.8996
374	6	0.0023	0.0187	0.0072	0.0061	0.8435
375	6	0.0024	0.0115	0.0074	0.0040	0.5408
376	6	0.0018	0.0123	0.0051	0.0039	0.7791
377	6	0.0015	0.0088	0.0041	0.0028	0.7001
378	6	0.0014	0.0080	0.0047	0.0023	0.4905
379	6	0.0015	0.0067	0.0045	0.0022	0.4871
380	6	0.0012	0.0054	0.0038	0.0018	0.4688
381	6	0.0017	0.0070	0.0047	0.0020	0.4365
382	6	0.0029	0.0075	0.0059	0.0017	0.2954
383	6	0.0018	0.0114	0.0061	0.0037	0.5979
384	6	0.0010	0.0090	0.0053	0.0032	0.5956
385	6	0.0012	0.0182	0.0069	0.0060	0.8632
386	6	0.0018	0.0162	0.0089	0.0059	0.6614
387	6	0.0031	0.0146	0.0074	0.0041	0.5564
388	6	0.0026	0.0148	0.0072	0.0044	0.6070
389	6	0.0038	0.0133	0.0061	0.0038	0.6202
390	6	0.0034	0.0293	0.0105	0.0097	0.9274
391	6	0.0019	0.0105	0.0066	0.0033	0.5068
392	6	0.0027	0.0081	0.0054	0.0022	0.4150
393	6	0.0018	0.0233	0.0083	0.0076	0.9113
394	6	0.0025	0.0119	0.0063	0.0032	0.5110
395	6	0.0021	0.0179	0.0086	0.0068	0.7944
396	6	0.0030	0.0126	0.0065	0.0037	0.5721
397	6	0.0048	0.0155	0.0085	0.0042	0.4907
398	6	0.0030	0.0105	0.0060	0.0030	0.5019
399	6	0.0062	0.0438	0.0165	0.0146	0.8821
All Stations	49	0.0010	0.0438	0.0065	0.0021	0.3237

POR = Period of Record as indicated on Table 1.

Table 8: Southwest Florida Shelf Total Organic Nitrogen (mg/l of N)

Station Number	N POR	Min POR	Max POR	Mean POR	S.D. POR	Coef. Var. POR
351	6	0.1889	0.2592	0.2278	0.0328	0.1441
352	6	0.1765	0.3085	0.2275	0.0512	0.2252
353	6	0.1795	0.3016	0.2224	0.0501	0.2253
354	6	0.1735	0.2817	0.2113	0.0386	0.1825
355	6	0.1699	0.2570	0.1989	0.0301	0.1514
356	6	0.1768	0.2740	0.2013	0.0363	0.1803
357	6	0.1755	0.3099	0.2138	0.0499	0.2335
358	6	0.1691	0.2785	0.1993	0.0445	0.2234
359	6	0.1759	0.2805	0.2064	0.0396	0.1917
360	6	0.1702	0.2677	0.2080	0.0340	0.1634
361	6	0.1899	0.2671	0.2151	0.0286	0.1331
362	6	0.1883	0.3496	0.2451	0.0635	0.2591
363	6	0.2132	0.3782	0.2906	0.0689	0.2372
364	6	0.2737	0.5108	0.3292	0.0900	0.2735
365	6	0.2343	0.3546	0.2724	0.0426	0.1562
366	6	0.1879	0.2807	0.2439	0.0343	0.1408
367	6	0.2290	0.2699	0.2463	0.0170	0.0691
368	6	0.2135	0.2626	0.2397	0.0181	0.0754
369	6	0.2078	0.2977	0.2456	0.0390	0.1589
370	6	0.2024	0.2670	0.2277	0.0274	0.1205
371	6	0.1765	0.2748	0.2179	0.0368	0.1690
372	6	0.1636	0.3382	0.2225	0.0610	0.2740
373	6	0.1572	0.2940	0.2218	0.0489	0.2203
374	6	0.1941	0.2850	0.2197	0.0334	0.1520
375	6	0.1695	0.3159	0.2170	0.0523	0.2409
376	6	0.1649	0.2562	0.2170	0.0371	0.1709
377	6	0.1680	0.2490	0.2103	0.0320	0.1520
378	6	0.1590	0.2508	0.2193	0.0354	0.1616
379	6	0.1673	0.2832	0.2219	0.0435	0.1959
380	6	0.1981	0.2884	0.2369	0.0301	0.1272
381	6	0.1950	0.2756	0.2365	0.0313	0.1324
382	6	0.1574	0.3391	0.2487	0.0714	0.2870
383	6	0.1951	0.3416	0.2759	0.0557	0.2020
384	6	0.1935	0.3306	0.2788	0.0489	0.1753
385	6	0.2050	0.3939	0.3173	0.0629	0.1982
386	6	0.1836	0.3891	0.3179	0.0758	0.2385
387	6	0.1879	0.4042	0.3048	0.0819	0.2686
388	6	0.1734	0.3619	0.2920	0.0721	0.2470
389	6	0.1859	0.3736	0.2652	0.0747	0.2818
390	6	0.2162	0.3543	0.2782	0.0482	0.1731
391	6	0.1836	0.5491	0.2882	0.1365	0.4737
392	6	0.1627	0.3246	0.2396	0.0599	0.2501
393	6	0.1697	0.3031	0.2170	0.0494	0.2275
394	6	0.1625	0.3202	0.2120	0.0582	0.2746
395	6	0.1684	0.3121	0.2306	0.0530	0.2299
396	6	0.1795	0.3134	0.2399	0.0452	0.1883
397	6	0.1866	0.3308	0.2522	0.0510	0.2022
398	6	0.1793	0.2768	0.2204	0.0427	0.1939
399	6	0.2800	0.3702	0.3075	0.0331	0.1076
All Stations	49	0.1572	0.5491	0.2428	0.0348	0.1433

POR = Period of Record as indicated on Table 1.

Table 9: Southwest Florida Shelf Total Phosphorus (mg/l of P)

Station Number	N POR	Min POR	Max POR	Mean POR	S.D. POR	Coef. Var. POR
351	6	0.0047	0.0182	0.0089	0.0048	0.5379
352	6	0.0070	0.0136	0.0098	0.0024	0.2463
353	6	0.0074	0.0135	0.0094	0.0022	0.2316
354	6	0.0071	0.0111	0.0090	0.0013	0.1486
355	6	0.0063	0.0111	0.0084	0.0016	0.1897
356	6	0.0066	0.0105	0.0083	0.0017	0.1998
357	6	0.0070	0.0105	0.0084	0.0014	0.1703
358	6	0.0074	0.0131	0.0098	0.0023	0.2366
359	6	0.0082	0.0141	0.0106	0.0028	0.2595
360	6	0.0083	0.0147	0.0112	0.0027	0.2372
361	6	0.0095	0.0174	0.0125	0.0030	0.2374
362	6	0.0106	0.0153	0.0128	0.0017	0.1366
363	6	0.0122	0.0164	0.0140	0.0016	0.1134
364	6	0.0114	0.0182	0.0148	0.0024	0.1636
365	6	0.0098	0.0186	0.0130	0.0032	0.2481
366	6	0.0085	0.0148	0.0114	0.0024	0.2097
367	6	0.0091	0.0164	0.0123	0.0026	0.2154
368	6	0.0086	0.0137	0.0115	0.0019	0.1658
369	6	0.0084	0.0139	0.0113	0.0018	0.1582
370	6	0.0071	0.0135	0.0109	0.0024	0.2200
371	6	0.0062	0.0132	0.0100	0.0025	0.2473
372	6	0.0053	0.0129	0.0095	0.0024	0.2542
373	6	0.0078	0.0125	0.0106	0.0020	0.1850
374	6	0.0083	0.0126	0.0104	0.0018	0.1764
375	6	0.0060	0.0132	0.0089	0.0024	0.2728
376	6	0.0067	0.0134	0.0090	0.0024	0.2715
377	6	0.0074	0.0129	0.0103	0.0023	0.2276
378	6	0.0064	0.0125	0.0092	0.0021	0.2322
379	6	0.0067	0.0161	0.0103	0.0031	0.2994
380	6	0.0077	0.0187	0.0112	0.0040	0.3550
381	6	0.0074	0.0125	0.0097	0.0018	0.1850
382	6	0.0086	0.0113	0.0098	0.0010	0.1034
383	6	0.0107	0.0130	0.0118	0.0010	0.0816
384	6	0.0105	0.0129	0.0117	0.0010	0.0861
385	6	0.0122	0.0191	0.0148	0.0029	0.1958
386	6	0.0117	0.0224	0.0152	0.0039	0.2556
387	6	0.0117	0.0142	0.0129	0.0011	0.0841
388	6	0.0111	0.0139	0.0129	0.0010	0.0755
389	6	0.0102	0.0129	0.0115	0.0011	0.0993
390	6	0.0095	0.0126	0.0115	0.0012	0.1028
391	6	0.0079	0.0169	0.0116	0.0033	0.2798
392	6	0.0074	0.0233	0.0112	0.0060	0.5345
393	6	0.0071	0.0167	0.0109	0.0036	0.3266
394	6	0.0075	0.0188	0.0100	0.0044	0.4405
395	6	0.0074	0.0210	0.0102	0.0054	0.5279
396	6	0.0047	0.0105	0.0071	0.0020	0.2777
397	6	0.0069	0.0173	0.0094	0.0039	0.4159
398	6	0.0078	0.0289	0.0142	0.0083	0.5848
399	6	0.0079	0.0591	0.0207	0.0195	0.9422
All Stations	49	0.0047	0.0591	0.0111	0.0023	0.2071

POR = Period of Record as indicated on Table 1.

Table 10: Southwest Florida Shelf Soluble Reactive Phosphorus (mg/l of P)

Station Number	N POR	Min POR	Max POR	Mean POR	S.D. POR	Coef. Var. POR
351	6	0.0002	0.0012	0.0005	0.0003	0.6389
352	6	0.0000	0.0012	0.0006	0.0004	0.7717
353	6	0.0001	0.0009	0.0004	0.0004	0.9030
354	6	0.0002	0.0012	0.0005	0.0005	0.8476
355	6	0.0000	0.0009	0.0004	0.0004	0.9030
356	6	0.0001	0.0012	0.0005	0.0004	0.9540
357	6	0.0000	0.0009	0.0005	0.0003	0.7108
358	6	0.0000	0.0013	0.0007	0.0005	0.6616
359	6	0.0000	0.0019	0.0008	0.0008	0.9809
360	6	0.0000	0.0038	0.0014	0.0014	0.9670
361	6	0.0001	0.0022	0.0009	0.0008	0.9113
362	6	0.0000	0.0017	0.0006	0.0007	1.0636
363	6	0.0000	0.0025	0.0011	0.0010	0.8993
364	6	0.0002	0.0030	0.0010	0.0011	1.0889
365	6	0.0005	0.0016	0.0008	0.0004	0.5208
366	6	0.0003	0.0022	0.0008	0.0007	0.9487
367	6	0.0000	0.0024	0.0011	0.0010	0.8904
368	6	0.0000	0.0024	0.0010	0.0009	0.9317
369	6	0.0001	0.0057	0.0015	0.0021	1.3820
370	6	0.0001	0.0057	0.0015	0.0021	1.4228
371	6	0.0002	0.0044	0.0012	0.0016	1.2891
372	6	0.0002	0.0025	0.0011	0.0008	0.6908
373	6	0.0000	0.0016	0.0007	0.0007	0.9890
374	6	0.0002	0.0027	0.0009	0.0010	1.0641
375	6	0.0002	0.0015	0.0008	0.0005	0.6880
376	6	0.0000	0.0018	0.0006	0.0007	1.1058
377	6	0.0001	0.0010	0.0005	0.0004	0.7266
378	6	0.0005	0.0011	0.0008	0.0003	0.3219
379	6	0.0005	0.0012	0.0008	0.0003	0.3596
380	6	0.0000	0.0012	0.0007	0.0005	0.6555
381	6	0.0003	0.0012	0.0009	0.0004	0.4216
382	6	0.0001	0.0019	0.0009	0.0007	0.7714
383	6	0.0002	0.0022	0.0010	0.0007	0.6913
384	6	0.0001	0.0027	0.0011	0.0009	0.8524
385	6	0.0002	0.0048	0.0017	0.0016	0.9689
386	6	0.0001	0.0049	0.0021	0.0017	0.8170
387	6	0.0000	0.0033	0.0018	0.0013	0.7285
388	6	0.0000	0.0020	0.0012	0.0008	0.6794
389	6	0.0000	0.0016	0.0010	0.0005	0.5275
390	6	0.0002	0.0014	0.0010	0.0004	0.4413
391	6	0.0001	0.0023	0.0010	0.0008	0.7448
392	6	0.0000	0.0016	0.0007	0.0006	0.7364
393	6	0.0000	0.0022	0.0007	0.0008	1.1946
394	6	0.0002	0.0013	0.0007	0.0005	0.6656
395	6	0.0000	0.0027	0.0007	0.0010	1.3574
396	6	0.0000	0.0016	0.0005	0.0007	1.3340
397	6	0.0000	0.0015	0.0007	0.0005	0.7037
398	6	0.0004	0.0014	0.0008	0.0004	0.4538
399	6	0.0005	0.0034	0.0015	0.0010	0.6499
All Stations	49	0.0000	0.0057	0.0009	0.0004	0.4063

POR = Period of Record as indicated on Table 1.

Table 11: Southwest Florida Shelf Chlorophyll-a (ug/l)

Station Number	N POR	Min POR	Max POR	Mean POR	S.D. POR	Coef. Var. POR
351	6	0.29	2.15	0.97	0.77	0.80
352	6	0.30	1.94	0.84	0.68	0.81
353	6	0.28	2.13	0.71	0.72	1.01
354	6	0.25	2.31	0.97	0.90	0.93
355	6	0.26	2.29	0.83	0.78	0.94
356	6	0.30	1.35	0.56	0.40	0.72
357	6	0.28	1.36	0.60	0.44	0.73
358	6	0.45	2.31	0.99	0.73	0.74
359	6	0.45	3.33	1.06	1.12	1.06
360	6	0.46	2.42	0.94	0.74	0.78
361	6	0.48	1.40	0.90	0.39	0.44
362	6	0.51	1.20	0.85	0.28	0.33
363	6	0.52	1.97	1.15	0.53	0.46
364	6	0.70	1.32	0.94	0.23	0.24
365	6	0.50	0.94	0.70	0.18	0.26
366	6	0.45	0.83	0.59	0.18	0.30
367	6	0.35	1.23	0.72	0.33	0.46
368	6	0.31	1.23	0.60	0.34	0.56
369	6	0.28	1.54	0.64	0.47	0.73
370	6	0.28	1.16	0.73	0.37	0.51
371	6	0.25	1.35	0.61	0.39	0.64
372	6	0.33	1.31	0.62	0.39	0.63
373	6	0.34	2.12	1.05	0.62	0.59
374	6	0.35	1.40	0.79	0.41	0.52
375	6	0.34	1.82	0.81	0.54	0.66
376	6	0.24	1.72	0.73	0.55	0.76
377	6	0.47	1.27	0.78	0.30	0.39
378	6	0.34	0.98	0.73	0.26	0.36
379	6	0.45	1.11	0.74	0.28	0.38
380	6	0.56	4.41	1.36	1.52	1.12
381	6	0.43	1.34	0.90	0.39	0.44
382	6	0.38	1.13	0.65	0.26	0.41
383	6	0.35	1.30	0.74	0.32	0.43
384	6	0.37	0.81	0.61	0.16	0.25
385	6	0.59	1.21	0.86	0.23	0.26
386	6	0.50	1.69	0.89	0.44	0.49
387	6	0.51	1.14	0.78	0.29	0.37
388	6	0.45	1.94	0.93	0.54	0.58
389	6	0.52	3.02	1.17	0.92	0.79
390	6	0.68	3.25	1.29	0.98	0.76
391	6	0.92	1.77	1.26	0.28	0.22
392	6	0.47	1.26	0.95	0.28	0.30
393	6	0.41	1.83	0.97	0.51	0.52
394	6	0.43	2.05	1.03	0.67	0.65
395	6	0.22	2.09	0.96	0.68	0.70
396	6	0.10	0.46	0.33	0.13	0.38
397	6	0.16	0.84	0.41	0.24	0.58
398	6	0.56	1.32	1.03	0.30	0.30
399	6	1.23	3.56	2.37	0.99	0.42
All Stations	49	0.10	4.41	0.87	0.31	0.35

POR = Period of Record as indicated on Table 1.

Table 12: Southwest Florida Shelf Total Organic Carbon (mg/l of C)

Station Number	N POR	Min POR	Max POR	Mean POR	S.D. POR	Coef. Var. POR
351	6	1.79	3.36	2.34	0.62	0.26
352	6	1.89	2.90	2.36	0.46	0.19
353	6	1.80	2.88	2.50	0.45	0.18
354	6	1.75	4.69	2.74	1.02	0.37
355	6	1.70	8.09	3.18	2.43	0.76
356	6	1.65	3.54	2.47	0.70	0.28
357	6	1.68	3.83	2.64	0.92	0.35
358	6	1.76	3.79	2.73	0.80	0.29
359	6	1.79	3.77	2.69	0.69	0.26
360	6	1.97	3.43	2.53	0.56	0.22
361	6	2.08	3.72	2.61	0.62	0.24
362	6	2.36	10.79	4.21	3.30	0.78
363	6	2.42	4.09	3.16	0.65	0.21
364	6	2.46	4.66	3.62	0.75	0.21
365	6	2.26	3.95	2.97	0.59	0.20
366	6	1.86	3.78	2.50	0.69	0.28
367	6	1.70	4.11	2.74	0.86	0.31
368	6	1.73	4.14	2.55	0.92	0.36
369	6	1.67	4.34	2.94	1.11	0.38
370	6	1.80	4.26	2.94	1.01	0.34
371	6	1.74	4.24	2.80	0.97	0.35
372	6	1.68	4.21	2.78	0.96	0.35
373	6	2.06	4.26	2.85	0.86	0.30
374	6	1.81	4.13	2.73	0.88	0.32
375	6	1.61	4.06	2.53	0.86	0.34
376	6	2.17	3.99	2.81	0.65	0.23
377	6	2.07	3.89	2.76	0.62	0.23
378	6	2.02	3.95	2.82	0.67	0.24
379	6	2.08	5.86	3.16	1.37	0.44
380	6	1.93	4.25	2.98	0.75	0.25
381	6	1.91	6.20	3.48	1.60	0.46
382	6	1.92	8.31	3.78	2.37	0.63
383	6	2.18	8.71	4.00	2.44	0.61
384	6	2.81	5.58	3.74	1.11	0.30
385	6	3.30	6.13	4.64	1.07	0.23
386	6	3.37	5.92	4.34	1.05	0.24
387	6	3.15	4.76	3.88	0.60	0.15
388	6	3.17	4.81	3.90	0.70	0.18
389	6	2.72	5.07	3.72	1.05	0.28
390	6	2.77	5.12	3.83	0.83	0.22
391	6	2.66	3.98	3.39	0.47	0.14
392	6	2.55	3.58	3.02	0.41	0.14
393	6	2.49	3.15	2.76	0.23	0.08
394	6	2.44	3.09	2.83	0.27	0.10
395	6	2.27	3.20	2.81	0.35	0.12
396	6	2.48	3.37	2.92	0.36	0.12
397	6	2.10	3.34	2.84	0.50	0.18
398	6	2.40	3.39	2.96	0.34	0.11
399	6	2.65	5.72	4.34	1.10	0.25
All Stations	49	1.61	10.79	3.10	0.58	0.19

POR = Period of Record as indicated on Table 1.

Table 13: Southwest Florida Shelf Silica (mg/l of Si)

Station Number	N POR	Min POR	Max POR	Mean POR	S.D. POR	Coef. Var. POR
351	4	0.0142	0.3132	0.0963	0.1448	1.5030
352	4	0.0030	0.3810	0.1878	0.1713	0.9123
353	4	0.0000	0.3067	0.0913	0.1448	1.5863
354	4	0.0000	0.0215	0.0073	0.0102	1.3932
355	4	0.0000	0.1067	0.0460	0.0531	1.1532
356	4	0.0019	0.1467	0.0699	0.0699	0.9999
357	4	0.0071	0.1305	0.0577	0.0595	1.0309
358	4	0.0086	0.1638	0.0598	0.0706	1.1802
359	4	0.0000	0.1619	0.0486	0.0763	1.5680
360	4	0.0172	0.1486	0.0669	0.0611	0.9141
361	4	0.0142	0.1433	0.0687	0.0602	0.8769
362	4	0.0065	0.2032	0.0589	0.0964	1.6365
363	4	0.1019	0.4101	0.2521	0.1618	0.6420
364	4	0.1640	1.0344	0.6108	0.3803	0.6226
365	4	0.0203	0.3989	0.2617	0.1718	0.6564
366	4	0.0284	0.2200	0.1102	0.0933	0.8470
367	4	0.0000	0.2753	0.0873	0.1294	1.4826
368	4	0.0162	0.1798	0.1037	0.0764	0.7368
369	4	0.0084	0.1905	0.1129	0.0819	0.7253
370	4	0.0038	0.0665	0.0263	0.0283	1.0764
371	4	0.0286	0.0871	0.0515	0.0265	0.5137
372	4	0.0000	0.2208	0.0862	0.1071	1.2428
373	4	0.0063	0.3339	0.1247	0.1540	1.2350
374	4	0.0081	0.2227	0.0847	0.0950	1.1222
375	4	0.0182	0.2481	0.1244	0.1185	0.9528
376	4	0.0253	0.2631	0.1175	0.1032	0.8781
377	4	0.0077	0.2319	0.0720	0.1070	1.4858
378	4	0.0182	0.2366	0.1076	0.1023	0.9507
379	4	0.0160	0.2152	0.0758	0.0948	1.2518
380	4	0.0000	0.1308	0.0531	0.0645	1.2157
381	4	0.0000	0.0771	0.0383	0.0325	0.8466
382	4	0.0253	0.2792	0.1259	0.1120	0.8899
383	4	0.0182	0.3462	0.1880	0.1669	0.8881
384	4	0.1145	0.5754	0.3177	0.2205	0.6939
385	4	0.2281	0.8296	0.6191	0.2768	0.4471
386	4	0.2341	0.7875	0.5467	0.2297	0.4202
387	4	0.2543	0.7335	0.5455	0.2106	0.3861
388	4	0.1388	0.7747	0.5792	0.2977	0.5139
389	4	0.0659	0.6633	0.3945	0.2614	0.6627
390	4	0.2720	0.7865	0.4710	0.2361	0.5012
391	4	0.0000	0.5372	0.2213	0.2278	1.0294
392	4	0.0000	0.4667	0.1353	0.2226	1.6445
393	4	0.0251	0.4221	0.1587	0.1802	1.1355
394	4	0.0073	0.2004	0.0716	0.0878	1.2254
395	4	0.0126	0.1893	0.1247	0.0809	0.6489
396	4	0.0186	0.1360	0.0659	0.0515	0.7820
397	4	0.0105	0.1331	0.0556	0.0546	0.9820
398	4	0.0303	0.4036	0.1499	0.1738	1.1595
399	4	0.2521	1.1951	0.6868	0.3874	0.5640
All Stations	49	0.0000	1.1951	0.1799	0.1822	1.0123

POR = Period of Record as indicated on Table 1.

Table 14: Southwest Florida Shelf Turbidity (NTU)

Station Number	N POR	Min POR	Max POR	Mean POR	S.D. POR	Coef. Var. POR
351	5	0.60	5.64	2.98	2.08	0.70
352	5	0.55	5.35	2.64	2.07	0.78
353	5	0.55	4.91	2.42	1.94	0.80
354	5	0.35	3.43	1.53	1.28	0.84
355	5	0.35	2.80	1.18	1.01	0.85
356	5	0.00	2.93	1.19	1.20	1.01
357	5	0.45	2.56	1.10	0.84	0.76
358	5	0.40	2.09	0.86	0.71	0.82
359	5	0.35	1.95	1.06	0.60	0.57
360	5	0.40	3.71	1.41	1.35	0.96
361	5	0.70	3.49	1.39	1.19	0.86
362	5	1.05	2.10	1.43	0.39	0.28
363	5	0.50	2.61	1.68	0.98	0.59
364	5	1.25	5.25	3.00	1.54	0.51
365	4	1.19	3.25	1.91	0.97	0.51
366	5	0.95	2.35	1.69	0.60	0.35
367	5	0.65	3.98	2.15	1.25	0.58
368	5	0.65	3.25	1.83	1.06	0.58
369	5	0.60	3.00	1.56	0.90	0.57
370	5	0.85	2.42	1.59	0.64	0.40
371	5	0.55	2.13	1.27	0.59	0.46
372	5	0.45	3.45	1.73	1.18	0.68
373	5	1.25	3.00	2.13	0.79	0.37
374	5	0.30	4.03	1.90	1.30	0.69
375	5	0.35	5.59	2.11	2.01	0.95
376	5	0.30	6.90	3.07	3.00	0.98
377	5	1.27	4.96	2.63	1.45	0.55
378	5	1.20	5.26	2.48	1.61	0.65
379	5	1.44	4.68	2.48	1.27	0.51
380	5	1.75	3.94	2.81	0.90	0.32
381	5	1.20	3.60	2.13	0.93	0.44
382	5	1.30	3.35	2.02	0.88	0.43
383	5	1.45	3.74	2.18	1.05	0.48
384	5	1.35	4.10	2.25	1.08	0.48
385	5	1.65	5.68	2.91	1.69	0.58
386	5	1.70	3.89	2.32	0.90	0.39
387	5	1.47	3.47	2.09	0.81	0.39
388	4	1.25	2.38	1.91	0.48	0.25
389	5	1.47	4.91	2.79	1.30	0.47
390	5	2.44	7.81	4.46	2.57	0.58
391	5	2.65	14.25	5.95	4.73	0.79
392	5	1.75	20.00	9.19	8.66	0.94
393	5	1.05	11.90	5.05	4.11	0.81
394	5	0.75	11.42	4.91	4.56	0.93
395	5	1.15	15.25	4.45	6.06	1.36
396	5	0.45	2.24	1.16	0.73	0.63
397	5	0.95	9.84	2.91	3.88	1.33
398	5	2.65	26.60	11.37	9.90	0.87
399	5	5.90	66.25	19.65	26.20	1.33
All Stations	49	0.00	66.25	3.00	3.11	1.04

POR = Period of Record as indicated on Table 1.

Table 15: Southwest Florida Shelf Surface Salinity (ppt)

Station Number	N POR	Min POR	Max POR	Mean POR	S.D. POR	Coef. Var. POR
351	6	34.50	36.80	35.48	0.87	0.02
352	6	34.30	37.00	35.62	0.94	0.03
353	6	34.60	36.90	35.57	0.82	0.02
354	6	34.70	37.00	35.72	0.81	0.02
355	6	34.60	36.80	35.68	0.76	0.02
356	6	34.00	36.60	35.38	0.90	0.03
357	6	33.80	36.30	35.18	0.83	0.02
358	6	33.70	36.10	34.90	0.86	0.02
359	6	33.60	36.10	34.83	0.93	0.03
360	6	33.90	36.00	34.82	0.80	0.02
361	6	33.60	36.10	34.60	0.94	0.03
362	6	33.20	35.70	34.30	0.94	0.03
363	6	32.90	35.30	33.77	0.86	0.03
364	6	30.70	33.40	32.08	1.03	0.03
365	5	32.70	34.40	33.62	0.63	0.02
366	6	33.50	35.10	34.17	0.56	0.02
367	6	33.30	35.60	34.53	0.77	0.02
368	6	33.90	35.60	34.62	0.59	0.02
369	6	34.00	36.20	34.77	0.77	0.02
370	6	34.10	36.40	34.95	0.82	0.02
371	6	33.60	36.50	35.13	1.01	0.03
372	6	33.90	36.60	35.20	0.94	0.03
373	6	33.80	36.70	35.33	1.01	0.03
374	6	33.80	36.80	35.35	1.05	0.03
375	6	27.90	36.80	34.28	3.25	0.09
376	6	34.60	36.80	35.58	0.76	0.02
377	6	33.20	36.50	35.02	1.20	0.03
378	6	32.20	36.60	34.87	1.51	0.04
379	6	32.30	36.20	34.65	1.35	0.04
380	6	32.20	35.10	34.22	1.06	0.03
381	6	33.10	34.70	33.98	0.61	0.02
382	6	32.40	34.40	33.63	0.82	0.02
383	6	30.60	34.60	33.08	1.43	0.04
384	6	30.40	34.20	32.50	1.37	0.04
385	6	28.30	34.20	30.40	2.27	0.07
386	6	28.40	34.90	31.18	2.19	0.07
387	6	28.80	34.20	31.52	1.82	0.06
388	6	27.10	34.20	31.02	2.76	0.09
389	6	28.10	34.40	31.72	2.77	0.09
390	6	28.20	35.10	31.90	2.50	0.08
391	6	27.80	35.20	33.20	2.71	0.08
392	6	29.30	35.90	34.15	2.47	0.07
393	6	32.50	36.40	34.90	1.39	0.04
394	6	34.40	36.40	35.35	0.77	0.02
395	6	34.30	36.20	35.40	0.67	0.02
396	6	34.40	36.10	35.20	0.57	0.02
397	6	34.30	36.50	35.52	0.74	0.02
398	6	30.60	36.40	34.60	2.10	0.06
399	6	26.00	35.50	32.88	3.58	0.11
All Stations	49	26.00	37.00	34.21	1.40	0.04

POR = Period of Record as indicated on Table 1.

Table 16: Southwest Florida Shelf Surface Dissolved Oxygen (mg/l)

Station Number	N POR	Min POR	Max POR	Mean POR	S.D. POR	Coef. Var. POR
351	6	5.70	6.90	6.25	0.48	0.08
352	6	5.40	6.70	6.07	0.57	0.09
353	5	5.50	6.80	6.18	0.64	0.10
354	6	5.40	6.70	6.10	0.54	0.09
355	6	5.30	6.80	6.15	0.69	0.11
356	6	5.40	6.80	6.07	0.62	0.10
357	6	5.20	7.10	6.10	0.77	0.13
358	6	5.40	7.30	6.18	0.77	0.12
359	6	5.50	7.20	6.15	0.75	0.12
360	6	5.40	6.90	6.07	0.67	0.11
361	6	5.40	7.00	6.12	0.64	0.10
362	6	5.20	7.30	6.33	0.88	0.14
363	6	5.30	7.20	6.27	0.78	0.12
364	6	5.30	7.10	6.27	0.77	0.12
365	5	5.30	7.00	6.32	0.89	0.14
366	5	5.50	6.90	6.40	0.62	0.10
367	6	5.30	6.90	6.15	0.69	0.11
368	6	5.60	6.90	6.32	0.55	0.09
369	6	5.10	6.90	6.13	0.77	0.12
370	6	5.00	7.10	6.30	0.74	0.12
371	6	5.40	7.20	6.20	0.78	0.13
372	6	5.20	6.80	6.02	0.69	0.12
373	6	5.30	7.10	6.33	0.72	0.11
374	6	5.30	6.70	6.05	0.57	0.09
375	6	5.20	7.30	6.32	0.70	0.11
376	6	5.20	6.90	5.92	0.66	0.11
377	6	5.20	6.90	6.15	0.69	0.11
378	6	5.40	7.10	6.20	0.75	0.12
379	6	5.20	6.80	6.00	0.74	0.12
380	6	5.30	6.80	6.22	0.56	0.09
381	6	5.30	6.90	6.22	0.73	0.12
382	6	5.20	6.80	6.20	0.64	0.10
383	6	5.30	7.10	6.25	0.71	0.11
384	6	5.10	7.30	6.18	0.83	0.13
385	6	5.10	7.30	6.27	0.91	0.15
386	5	5.50	7.20	6.40	0.81	0.13
387	5	5.50	7.00	6.38	0.76	0.12
388	5	5.50	7.00	6.36	0.74	0.12
389	6	5.50	7.20	6.28	0.67	0.11
390	6	5.30	7.20	6.13	0.80	0.13
391	6	5.30	7.50	6.28	0.95	0.15
392	6	5.30	7.10	6.28	0.78	0.12
393	6	5.40	7.50	6.33	0.85	0.13
394	6	5.40	7.00	6.12	0.57	0.09
395	5	5.40	7.40	6.38	0.89	0.14
396	5	6.00	7.70	6.86	0.78	0.11
397	5	5.60	7.40	6.48	0.77	0.12
398	6	4.80	7.60	6.20	1.05	0.17
399	6	5.10	8.30	6.25	1.25	0.20
All Stations	49	4.80	8.30	6.23	0.15	0.02

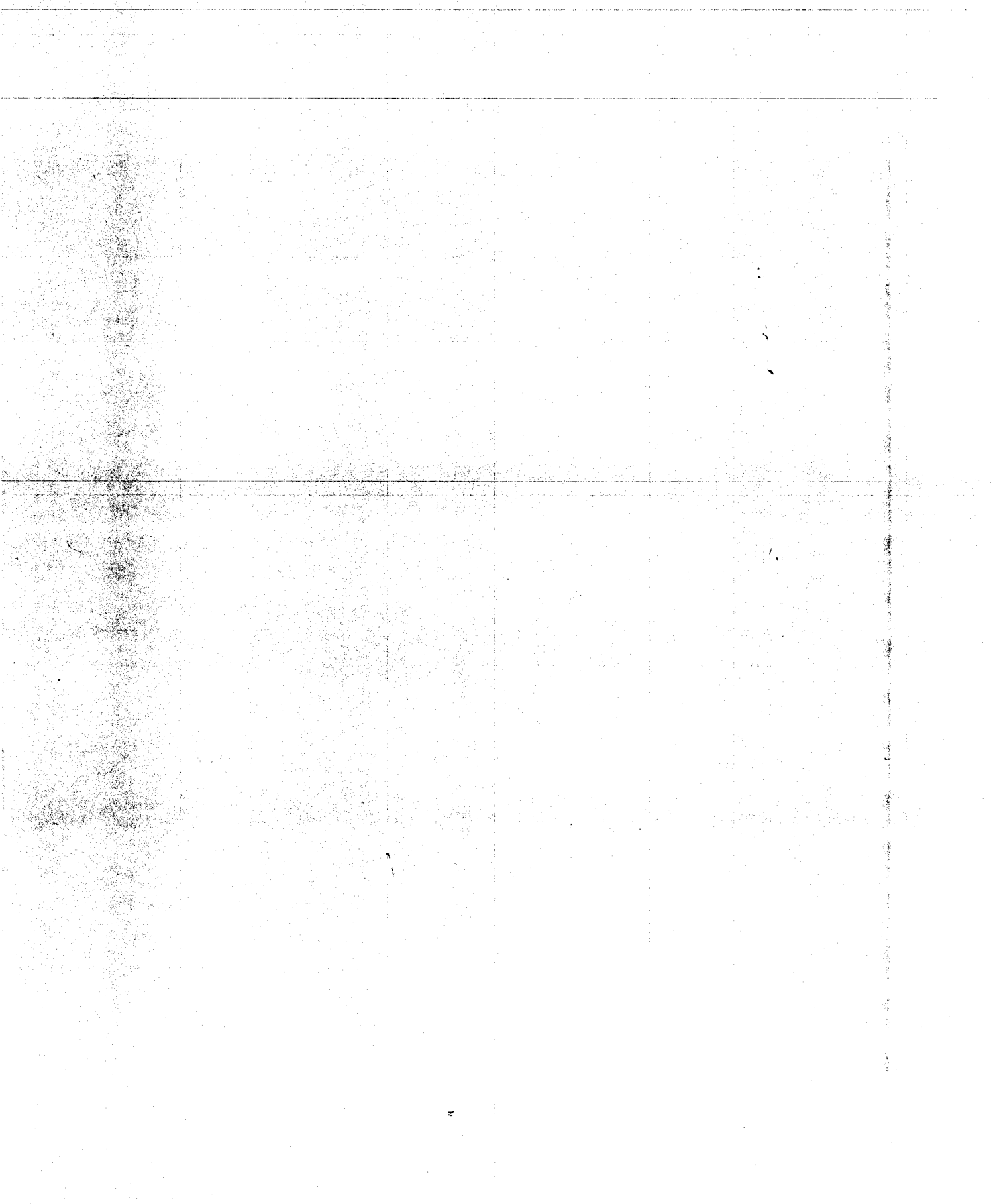
POR = Period of Record as indicated on Table 1.

Table 17: Southwest Florida Shelf Surface Temperature (oC)

Station Number	N POR	Min POR	Max POR	Mean POR	S.D. POR	Coef. Var. POR
351	6	21.30	30.60	26.77	4.02	0.15
352	6	21.20	31.20	26.78	4.22	0.16
353	6	21.60	31.30	26.95	4.12	0.15
354	6	21.60	31.30	27.02	4.10	0.15
355	6	21.50	31.00	26.97	4.13	0.15
356	6	21.20	30.70	26.75	4.06	0.15
357	6	21.00	30.50	26.63	4.12	0.15
358	6	20.90	30.60	26.63	4.23	0.16
359	6	20.90	30.60	26.60	4.25	0.16
360	6	20.40	30.80	26.55	4.48	0.17
361	6	20.60	30.60	26.50	4.43	0.17
362	6	20.70	30.60	26.47	4.39	0.17
363	6	21.10	30.60	26.42	4.37	0.17
364	6	20.90	30.40	26.43	4.32	0.16
365	5	21.20	30.10	25.80	4.43	0.17
366	6	21.10	30.10	26.40	4.28	0.16
367	6	20.90	30.20	26.42	4.29	0.16
368	6	21.20	30.10	26.50	4.12	0.16
369	6	21.20	30.20	26.52	4.09	0.15
370	6	21.30	30.10	26.45	3.84	0.15
371	6	21.60	30.30	26.67	3.88	0.15
372	6	21.70	30.20	26.68	3.83	0.14
373	6	21.60	30.30	26.68	3.78	0.14
374	6	21.50	30.20	26.65	3.83	0.14
375	6	21.00	30.40	26.62	4.02	0.15
376	6	21.80	30.40	26.73	3.86	0.14
377	6	21.80	30.50	26.68	3.95	0.15
378	6	21.40	30.60	26.62	4.11	0.15
379	6	21.20	30.70	26.62	4.20	0.16
380	6	21.20	30.70	26.57	4.21	0.16
381	6	21.20	30.70	26.55	4.25	0.16
382	6	21.00	30.80	26.55	4.32	0.16
383	6	20.70	31.00	26.45	4.48	0.17
384	6	21.00	31.30	26.53	4.52	0.17
385	6	21.20	31.60	26.68	4.52	0.17
386	6	21.20	31.60	26.77	4.51	0.17
387	6	21.30	31.40	26.72	4.39	0.16
388	6	21.20	31.40	26.77	4.40	0.16
389	6	21.20	31.40	26.80	4.38	0.16
390	6	21.70	31.60	26.90	4.29	0.16
391	6	21.90	31.20	26.93	4.19	0.16
392	6	21.60	31.00	26.88	4.23	0.16
393	6	21.90	31.10	27.00	4.15	0.15
394	6	21.80	31.10	26.97	4.04	0.15
395	6	21.90	30.80	26.97	3.97	0.15
396	6	22.60	31.00	27.25	3.77	0.14
397	6	22.10	31.10	27.10	3.93	0.15
398	6	22.20	31.00	26.98	3.84	0.14
399	6	22.30	31.00	27.22	3.58	0.13
All Stations	49	20.40	31.60	26.70	0.25	0.01

POR = Period of Record as indicated on Table 1.





Spatial Characterization of Water Quality in Florida Bay and Whitewater Bay by Multivariate Analyses: Zones of Similar Influence

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ABSTRACT: We apply an objective statistical analysis to a 6 year, multiparameter data set in an effort to describe the spatial dependence and inherent variation of water quality patterns in the Florida Bay - Whitewater Bay area. Principal component analysis of 16 water quality parameters collected monthly over a 6 year period resulted in 5 principal components (PC) which explained 71.8 % of the variance of the original variables. The "organic" component (PC_I) was composed of TN, TON, APA, and TOC; the "inorganic N" component (PC_{II}) contained NO₂⁻, NO₃⁻, and NH₄⁺; the "phytoplankton" component (PC_{III}) was made up of turbidity, TP, and Chl a; DO and temperature were inversely related (PC_{IV}); and salinity was the only parameter included in PC_V. A cluster analysis of mean and SD of PC scores resulted in the spatial aggregation of 50 fixed monitoring stations in Florida Bay and Whitewater Bay into 6 zones of similar influence (ZSI) defined as: Eastern Florida Bay, Core Florida Bay, Western Florida Bay, Coot Bay, the Inner Mangrove Fringe, and the Outer Mangrove Fringe. Marked differences in physical, chemical, and biological characteristics among ZSI were illustrated by this technique. Comparison of medians and variability of parameter values among ZSI allowed large scale generalizations as to underlying differences in water quality in these regions. For example, Eastern Florida Bay had lower salinity, TON, TOC, TP, and Chl a than the Core Bay as a function of differences in freshwater inputs and water residence time. Comparison of medians and variability within ZSI resulted in new hypotheses as to the processes which generated these internal patterns. For example, the Core Bay had very high TON, TOC, and NH₄⁺ concentrations but very low NO₃⁻, leading us to postulate the

inhibition of nitrification via CO production by TOC photolysis. We believe that this simple, objective approach to spatial analysis of fixed-station monitoring datasets will aid scientists and managers in the interpretation of factors which underly the observed parameter distribution patterns. We also expect that this approach will be useful in focussing attention on specific spatial areas of concern and in generating new ideas for hypothesis testing.

INTRODUCTION

Florida Bay and the mangrove estuaries of the Whitewater Bay area in South Florida (USA) act as the marine receiving-end of the Everglades, one of the largest wetland ecosystems in the world. Recent ecological changes in this region have brought attention to the sensitivity of the ecosystem to disturbance. A list of these disturbances and impacts includes: the invasion of exotic species in the freshwater wetlands and uplands (Bodle et al 1994), periods of prolonged hypersalinity of coastal embayments (Fourqurean et al. 1993), a poorly understood seagrass die-off (Robblee et al. 1991), sponge mortality events (Butler et al. 1995), and elevated phytoplankton abundance (Phlips and Badylak 1996). In response to these early warning signs, a network of water quality monitoring stations was established in 1989 so that trends in water quality could be addressed.

Primary productivity of both the water column (Fourqurean et al. 1993; Phlips and Badylak 1996) and the benthos (Powell et al. 1989; Fourqurean et al. 1992a; 1992b)

of Florida Bay is limited by phosphorus availability. Recent increases in the abundance of phytoplankton (Phlips and Badylak 1996) indicate that P availability has increased in the water column between 1989 and 1994. Concerns that this increased P availability is due to cultural eutrophication of the system have been raised (Lapointe and Clark 1992). In contrast to Florida Bay, there is almost no water quality data available for the Whitewater Bay mangrove estuaries.

Environmental monitoring programs are essential for our understanding and management of ecosystems. Before one can recognize environmental changes, some idea of baseline variability must be established against which to evaluate gross deviations. Owing to the deleterious effects of man's activities on lakes, estuaries and coastal oceans, it is vitally important to understand spatial as well as temporal patterns in water quality in these systems in an effort to direct management efforts.

Florida Bay, Whitewater Bay, and the smaller mangrove estuaries of the region are highly compartmentalized by geomorphology, making it difficult to study nutrient biogeochemistry using standard schemes of estuarine ecology. Sources of both freshwater and nutrients are difficult to quantify, owing to the non-point source nature of runoff from the Everglades. Thus, one-dimensional mixing diagrams, so useful in river-dominated estuaries of the temperate zone, are inappropriate for studying nutrient behavior in these systems. Despite this, it would be useful to define subsections of the systems of similar nature in order to understand the roles of various nutrient sources, sinks, and processes.

As we were interested in understanding the spatial patterns of water quality of the

Florida Bay - Whitewater Bay area. analysis required the reduction of a complicated data matrix into fewer elements. Even a modest water quality monitoring program can generate a daunting amount of data (~83,000 points, this study). Multivariate statistical techniques can be used to reduce the number of variables into a smaller set of independent, synthetic variables that capture the variance of the original data set. Objective analysis (*sensu* Jalickee and Hamilton 1977) uses singular decomposition of a matrix to classify oceanographic profile data into areas with similar physical and chemical characteristics. Fourqurean et al. (1993) applied principal component analysis (PCA) to 18 monthly sampled water quality data from Florida Bay, reducing the number of independent variables from 17 to 3 composite variables which explained >90% of the variance of the original data set. PCA and clustering algorithms have been used to characterize mesoscale variability of a phytoplankton bloom in the Lower St. Lawrence estuary (Vézina et al. 1995). Most recently, a PCA-clustering method was applied to seasonal measurements of percent cover of 15 macrophyte species and 15 invertebrates at 18 stations in Narragansett Bay in an effort to identify similarities among stations (Hardin et al. 1996).

To understand the factors influencing nutrient biogeochemistry in embayments in southwestern Florida, it is important to be able to objectively group stations of similar water quality (as physical and chemical parameters). In this paper, we apply PCA to a 6 year, multiparameter data set in an effort to describe the spatial dependence and inherent variation of water quality patterns in the Florida Bay - Whitewater Bay area. This is followed by a cluster analysis which objectively classifies sampling stations in

this network into groups with similar water quality for the period of record. Water quality at a specific site is the result of the interaction of a variety of driving forces, including oceanic and freshwater inputs/outputs, sinks, and internal cycling. It is reasonable to assume that contiguous groups of stations with similar water quality are the result of comparable interactions, hence we call these regions zones of similar influence (ZSI). The utility of this approach for further analysis and new hypothesis development are discussed.

METHODS

SITE CHARACTERISTICS

Florida Bay is a shallow lagoon located off the southern tip of the Florida peninsula (Fig. 1). It is bounded by the Everglades to the north and is open to the Gulf of Mexico along its western margin. The main line of the Florida Keys, a Pleistocene reef, separates Florida Bay from the Atlantic Ocean. Florida Bay receives freshwater runoff from Taylor Slough in the Everglades as well as the C-111 canal output located in Highway Creek at its most northeast end. The sediments of Florida Bay are composed mostly of biogenic carbonate muds (Bosence 1989) so weathering of pre-existing substratum is not an important source of nutrients. The muddy sediments are colonized by seagrass beds (dominated by Thalassia testudinum), which occur over 95% of the bottom of Florida Bay (Zieman et al. 1989). Shallow mud banks divide Florida Bay into relatively discrete basins which restrict water mixing between basins

and attenuate both tidal range and current speed.

The Whitewater Bay area is located on the southwestern coast of the Florida peninsula and is composed of mangrove-lined streams and rivers originating from the Shark River Slough in the Everglades. It is a brackish complex that drains into the SW Florida Shelf region of the Gulf of Mexico (hereafter called Shelf). In the region from Cape Romano to Cape Sable, there are over 60,000 ha of mangrove forest; this forest is made up of tall trees (up to 25 m); mainly red (Rhizophora mangle), black (Avicennia germinans) and white (Laguncularia racemosa) mangroves (Smith et al. 1994). The mangrove forest is a continuous band that stretches about 15 km inland from the coast. The bottom of the embayments in this region is largely calcareous mud, with occasional seagrass beds. Oyster bars are common within the area. It almost seems unreasonable to compare mangrove-lined Whitewater Bay area to Florida Bay's lagoonal structure, however, they are alike in that they exist in near identical climatic conditions, receive freshwater via a diffusive slough system arising from the Everglades, and have similar tidal exchange with the Shelf waters.

A total of 28 sample stations were located across Florida Bay (Fig. 1). Another 22 stations in the Whitewater Bay area were assigned so as to provide a gradient from freshwater to estuary throughout the many rivers in the region. Stations in Florida Bay were sampled semi-monthly from July 1989 - Dec. 1991 and then monthly from March 1991 - July 1995; Whitewater Bay was sampled monthly from October 1992 - July 1995. Four days were required for each full sampling event.

ANALYTICAL METHODS

Surface salinity and temperature were measured using a combination salinity-conductivity-temperature probe (Orion model 140). Dissolved oxygen (DO, mg l^{-1}) was measured 10 cm below the surface using an oxygen electrode (Orion model 840) corrected for salinity and temperature.

Duplicate, unfiltered water samples were collected from 10 cm below the surface using acid-washed and sample rinsed 150 ml HDPE bottles and kept at ambient temperature in the dark during transport. Duplicate water samples for dissolved nutrient analysis were collected using acid-washed and sample rinsed 150 ml syringes. Samples were filtered (25 mm glass fiber GF/F) by hand into acid-washed and sample rinsed 60 ml HDPE bottles, which were capped and immediately placed on ice in the dark for transport. The wet filters, used for chlorophyll a (Chl a) analysis, were placed in 1.8 ml plastic centrifuge tubes to which 1.5 ml of 90% acetone was added (Strickland and Parsons 1972); they were then capped and put into a dark bottle on ice for transport.

Unfiltered water samples were analyzed for total organic carbon (TOC), total nitrogen (TN), total phosphorus (TP), alkaline phosphatase activity (APA), and turbidity. TOC was measured by direct injection onto hot platinum catalyst in a Shimadzu TOC-5000 after first acidifying to $\text{pH} < 2$ and purging with CO_2 -free air. TN was measured using an ANTEK 7000N Nitrogen Analyzer using O_2 as carrier gas instead of argon to promote complete recovery of the nitrogen in the water samples (Jones and Frankovich in press). TP was determined using a dry ashing, acid

hydrolysis technique (Solórzano and Sharp 1980). The APA assay measures the activity of alkaline phosphatase, an enzyme used by bacteria to mineralize phosphate from organic compounds. The assay is performed by adding a known concentration of an organic phosphate compound (methylfluorescein phosphate) to an unfiltered water sample. Alkaline phosphatase in the water sample cleaves the phosphate, leaving methylfluorescein, a highly fluorescent compound. The fluorescence of initial and 2 hr incubations were measured using a Gilford Fluoro IV Spectrofluorometer (excitation = 430 nm, emission = 507 nm) and subtracted to give APA ($\mu\text{M h}^{-1}$). Turbidity was measured using an HF Scientific model DRT-15C turbidimeter and reported in NTU.

Filtrates were analyzed for soluble reactive phosphorus (SRP), nitrate + nitrite (NO_x^-), nitrite (NO_2^-), and ammonium (NH_4^+) on a four channel autoanalyzer (Alpkem model RFA 300). Filters for Chl *a* content ($\mu\text{g l}^{-1}$) were allowed to extract for a minimum of 2 days at -20°C before analysis. Extracts were analyzed using a Gilford Fluoro IV Spectrofluorometer (excitation = 435 nm, emission = 667 nm). All analyses were completed within 1 week after collection.

Some parameters were not measured directly, but were calculated by difference. Nitrate (NO_3^-) was calculated as $\text{NO}_x^- - \text{NO}_2^-$. Total inorganic nitrogen (TIN) was calculated as $\text{NO}_x^- + \text{NH}_4^+$. Total organic nitrogen (TON) was defined as $\text{TN} - \text{TIN}$. All concentrations are reported as μM unless noted. All N:P ratios calculated and discussed in this paper are on a mole:mole basis.

STATISTICAL ANALYSES

In order to assess the underlying patterns in the distribution of the measured parameters, principal component analysis (PCA) was used to extract composite variables (principal components) from the original data (Overland and Preisendorfer 1982). The PCA solution was rotated (using VARIMAX) in order to facilitate the interpretation of the principal components and the factor scores were saved for each data record. Spatial distribution of the mean and SD of the factor scores for each principal component for each sampling station over the period of record were mapped using the kriging algorithm in Surfer (Golden Software). Both the mean and SD of the factor scores over the period of record for each station were then used as independent variables in a cluster analysis in order to aggregate stations into zones of similar influence (ZSI). The purpose of this analysis was to collapse the number of stations into a few groups which could then be analyzed in more detail.

Once stations were grouped by cluster analysis, statistical analysis of the water chemistry among ZSI was possible (see box-and-whiskers plots, Figs. 5-9). The center horizontal line of the box is the median of the data, the top and bottom of the box are the 25th and 75th percentiles (quartiles), and the ends of the whiskers are the 5th and 95th percentiles. The notch in the box is the 95% confidence interval of the median. When notches between boxes do not overlap, the medians are considered significantly different. The box-and-whisker plot is a powerful statistic as it shows the median, range, distribution of the data as well as serving as a graphical, nonparametric ANOVA. In addition, differences in parameters among ZSI were

quantified using Kruskal-Wallace test with significance set at $P < 0.05$.

RESULTS

RANGES AND MEDIANS OF DATA

Large ranges in most measured parameters were the norm owing to the wide spatial and temporal sampling plan (Table 1). Medians are reported as the nonparametric statistic of comparison due to the skewed nature of most water chemistry data (see Christian et al. 1991). On average, the region was warm and hyposaline, with a median temperature of 26.6°C and a median salinity of 26.8 ppt. The median DO was 6.3 mg l^{-1} , or $\sim 88\%$ saturation. Inorganic N concentrations were a small fraction (6%) of the TN pool with TON making up the bulk. NH_4^+ was the dominant inorganic N species in almost all of the samples (63% of TIN). SRP concentrations were very low (median $0.04 \mu\text{M}$) and comprised only 8% of the TP pool. Chl *a* concentrations were low overall, $1.3 \mu\text{g l}^{-1}$, but ranged from 0.02 to $17.8 \mu\text{g l}^{-1}$. Ratios of N to P suggested a general P limitation of the water column; the median TN:TP was 120, and the median TIN:SRP was 70.

PRINCIPAL COMPONENT ANALYSIS

Principal component analysis (PCA) identified five composite variables (hereafter called PC_I , PC_{II} , etc.) that passed the rule N for significance at $P < 0.05$ (Overland and Preisendorfer 1982). The factor loadings, as correlations between the original

variables and the principal components (Table 2), indicate five separate modes of variation in the data. PC_I had high factor loadings for TN, TON, APA, and TOC and was therefore designated as the "organic" component. PC_{II} was composed of NO_2^- , NO_3^- , and NH_4^+ and was called the "inorganic nitrogen" component. Turbidity, TP, and Chl *a* were highly correlated with the "phytoplankton" PC_{III} component. PC_{IV} was positively correlated with temperature and negatively correlated with dissolved oxygen concentration. Salinity was the only variable included in PC_V . Concentration of SRP was not included in any of the principle components. The five principal components accounted for 71.8 % of the total variance of the original variables.

Spatial distributions of the mean factor score for each station indicate how the average water quality varies over the study area (Fig. 2). The "organic" component showed a peak in the center of Florida Bay, with decreasing magnitude to the east, south and west. The "inorganic nitrogen" component had two peaks: one in northeast Florida Bay, and the other in Coot Bay. The "phytoplankton" component was highest along the western margin of the study area. High values of PC_{IV} , correlated with low DO and high temperature, were found in the mangrove-lined estuaries north of Whitewater Bay. The salinity component (PC_V) generally decreased from the north to south, with a maximum in central Florida Bay.

The SD of the factor scores at each station indicate the degree of variability of each factor score over the 6 years of monitoring (Fig. 3). The "organic" component was quite constant across the study area, with the exception of very high variability at two sites in northeastern Florida Bay. The "inorganic nitrogen" component was much more

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obvious differences in salinity and nutrient distributions.

The above analysis documents the similarities and differences in water quality characteristics of Florida Bay and Whitewater Bay. This type of multivariate approach should prove useful to scientists and managers faced with the task of interpreting large water quality datasets. In addition, there are now statistical grounds to distinguish regions of Florida Bay and Whitewater Bay according to water quality; we suggest that future management practices take this into account.

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interesting as concentrations of both TIN and SRP increased downstream and the median TIN:SRP ratio declined from 59 to 24. It is possible that high concentrations of mangrove-derived TOC in the Outer Mangrove zone resulting in blackwater conditions cause the phytoplankton in this region to be limited by light rather than nutrients.

CONCLUSIONS

The aggregation of 50 fixed monitoring stations into 6 ZSI according to physical, chemical, and biological similarity has provided us with a much clearer picture of both Florida Bay and Whitewater Bay ecosystems. Both systems are similar in that N and P are supplied via tidal mixing with the Shelf waters and that P availability decreases with distance from the Shelf (Fourqurean et al. 1993). Differences between ecosystems are due mostly to morphology and hydrology. The general view of Florida Bay that emerges from this analysis is that of an ecosystem dominated by its restricted hydrology. The shallow banks inhibit water movement within the estuary which results in spatial heterogeneity in water quality. Mixing of freshwater occurs from a northeast-southwest direction. Input of Shelf water occurs via the Western Bay and is slowly transported to the northeast into the Core Bay where, depending upon rainfall, it is either entrained by the flow of water out of Florida Bay or evaporated resulting in hypersaline conditions. In contrast, the mangrove forests of Whitewater Bay possess a well developed channel system which culminates in a series of river dominated estuaries. Tidal range and exchange is much greater in this area and results in

salinity) with highest concentrations occurring in the Outer Mangrove zone (data not shown). This high standing stock of TIN may be the result of the mineralization of TON from autochthonous production within the mangrove zone, offshore advection of sediment N, or from upstream loading. Autochthonous TON production as the result of bacterial N-fixation in association with mangrove root systems or from cyanobacterial primary production in the water column has been shown to be low (Boto and Robertson 1990). Mangrove sediment data from the Shark River (Chen and Twilley in review) showed a decrease in TON and TOC from the Inner to Outer Mangrove zone. Interestingly, as sediment TON declined, NH_4^+ in the sediment increased. This is consistent with our water column data and suggests that mineralization of sediment TON is the source of water column TIN. What remains unclear is the relative contribution of sediment N from upstream and offshore sources.

Concentrations of TP and SRP were also higher in the Outer than Inner Mangrove zone. This down estuary increase in P is also seen in the sediments (R. Twilley pers. comm.). TP and SRP from stations 2 km offshore on the Shelf (unpublished data) are low (0.41 and 0.04 μM , respectively) indicating that Shelf waters do not account for this increase. However, there may be significant, wind- and tide-driven sediment transport into this area which may act as a source of P to this region.

APA in the Outer Mangrove zone was lower than in any other ZSI (0.09 $\mu\text{M h}^{-1}$), as a direct result of high SRP and TP. Only in the Outer Mangrove zone was there a significant inverse relationship between SRP and APA ($P=0.03$). Chl *a* concentrations were not significantly different between the Inner and Outer Mangrove zone. This was

which may account for the high concentrations of TN, TON, TOC, NH_4^+ , TP, and Chl *a* measured there. It is not unreasonable to attribute these water quality characteristics to the physical and historical nature of the site (Tabb et al. 1962).

INNER MANGROVE FRINGE

Freshwater runoff from Shark River Slough in the Everglades coalesces into stream channels of the Inner Mangrove ZSI. Median salinity was 7 ppt which characterizes it the oligohaline zone of the SW Florida coast (Bulger et al. 1993). Relatively high levels of TON and TOC existed in this region as a result of leaching from the surrounding mangrove forest (Fig. 5). Inorganic N was also low but contrary to Florida Bay, NO_3^- was the dominant species (Fig. 6). One possible explanation is that, being a blackwater area, nitrification is more pronounced due to reduced photoinhibition. TP and SRP were low in this area but APA was high relative to the Outer Mangrove zone. This association of high APA with low TP is contrary to observations in Florida Bay.

OUTER MANGROVE FRINGE

The Outer Mangrove ZSI was composed of stations located primarily in the lower estuarine ends of the Shark, Broad, Harney, and Lostmans Rivers (Fig. 4). With a median salinity of 15 ppt, this ZSI can be considered the mesohaline - polyhaline zone. Salinity increased from Inner to Outer Mangrove zone as was expected, but more importantly, NH_4 , NO_3 , and NO_2 show non-conservative distributions (relative to

production in these regions.

WESTERN BAY

Median salinity in Western Bay was comparable to Core Bay but was much less variable. In addition, the low concentrations of TN, TON, APA, TOC, NO_3^- , NO_2^- , and NH_4^+ characterizes this region as being influenced primarily by the Shelf waters (unpublished data). Western Bay had higher TP concentrations than Eastern Bay as a result of more marine influence but was lower than the Core Bay. SRP concentrations were lower than Core Bay but because of low N concentrations exhibited comparable N:P ratios. As a consequence of relatively high TP, concentrations of Chl *a* in Western Bay were relatively high, being similar to Core Bay but much higher than in the Eastern Bay. Turbidity in Western Bay was higher than Eastern Bay which may have been due to increased wind exposure and tidal amplitude in this zone. There is also some evidence that the recent seagrass die-off in this region has de-stabilized the sediment allowing for more tidal and wind-driven resuspension.

COOT BAY

The Coot Bay ZSI does not merit much discussion as it is a single station located in a small, almost completely enclosed bay. In 1957, Coot Bay was connected to Florida Bay by the Buttonwood canal dug through the mangroves. In 1982 the canal was plugged at the Florida Bay end making it hydraulically isolated from both Whitewater and Florida Bays. Like Core Florida Bay, Coot Bay has a long water residence time

Highest AP activities measured in Florida Bay occurred in the Core Bay and were related more to TOC and TON than to TP (Fig. 5). No significant relationship was observed between APA and SRP most probably because SRP concentrations are always so low as to be almost undetectable. APA was an order of magnitude greater in Core than Western Bay but concentrations of TP were comparable (median $0.7 \mu\text{M}$ and $0.6 \mu\text{M}$, respectively). It may be that the TP pool is not a good estimate of organic P in this system. A significant fraction of sediment-bound P measured by the TP analysis is probably not accessible by bacterial enzymes, therefore, the total contribution and quality of organic P in the TP pool may be very different among the three zones of Florida Bay. As a possible consequence of high APA, Core Bay had higher SRP concentrations than other areas of Florida Bay. Even with the existence of high N concentrations, Core Bay remains the least potentially P limited area of Florida Bay (median TIN:SRP = 48).

As mentioned previously, Chl *a* values are relatively high in this region with spikes up to 18 mg l^{-1} . There has been much concern by local management agencies as to the cause of this persistent phytoplankton bloom. Interestingly, the median Chl *a* concentration in the Core Bay is not significantly different than the Western Bay, however, the phytoplankton communities are markedly distinct. Phytoplankton in the Core Bay are mostly composed of the cyanobacteria, Synechococcus, while a mixed community diatoms and dinoflagellates dominate the Western Bay (Phlips and Badylak 1996; C. Tomas pers. comm.). The difference between phytoplankton communities may have profound effects on the trophic transfer and secondary

characterized by very high concentrations of TON, TOC, and NH_4^+ ; elevated TP, Chl *a*, and APA; and very low levels of NO_3^- and NO_2^- . Analysis of our 7 year, monthly database has shown no significant temporal trend in TON or TOC in this ZSI (unpublished data), therefore, the high concentrations of TOC and TON are a persistent feature of this area. This is most probably due to the extended water residence time and evaporative nature of this area which acts to concentrate solutes.

High NH_4^+ levels in this shallow area (up $120 \mu\text{M}$) may be due to long water residence time, rapid benthic remineralization of NH_4^+ , and possibly inhibition of nitrification by photoproduction of carbon monoxide (Vanzella et al. 1989). Highest NH_4^+ concentrations occur during Nov. - Apr. while highest salinities occur during May - Oct., ruling out extended water residence time and salinity-inhibited nitrification as important determinants. High rates of benthic NH_4^+ flux have been measured in the northern mangrove boundary of Florida Bay (D. Rudnick, pers. comm.). No measurements have been made in the Core Bay but there is much potential for the high phytoplankton biomass to fuel a large amount of NH_4^+ remineralization. In addition, the very low concentrations of NO_3^- and NO_2^- implies incomplete N cycling rather than simply a large amount of benthic NH_4^+ remineralization. It is possible that denitrification is limited by the rates of nitrification. We plan to follow up on the hypothesis that strong sunlight on a shallow water column containing high DOC concentrations promotes high levels of CO, and that this CO by diffusive flux into the sediments will result in: a repressed rate of nitrification, a greatly diminished amount coupled denitrification (due to low NO_3^-), and the accumulation of NH_4^+ in the system.

TP was lower in Eastern Bay than in the other zones mostly as a result of the low P loading from Taylor Slough and the C-111 canal (D. Rudnick pers. comm.). SRP concentrations were very low, often near or below the detection limit ($0.01 \mu\text{M}$), but were comparable to other zones of Florida Bay. Both TP and Chl *a* covaried as determined by PCA. Low levels of TP did not correlate well with high APA, nor was there a significant negative relationship between SRP and APA in Eastern Bay. However, since we did not count bacteria, we do not know if the low APA was due to smaller bacterial numbers. It is possible that other factors in addition to low P concentration may be important in determining both bacterial abundance and exoenzyme production in this region (see below).

Eastern Bay had highest TIN:SRP and TN:TP ratios indicating the severity of P limitation in this area of Florida Bay. This was also reflected in its having the lowest standing stock of phytoplankton (as measured by Chl *a*) of the three ZSI. Eastern Bay also had the lowest overall turbidity than the other Florida Bay ZSI.

CORE BAY

The Core Florida Bay ZSI is an area of low freshwater runoff and restricted water circulation due to the surrounding mud banks. The long water residence time in this area, especially in summer when winds are light, allows for high evaporation rates and results in persistent hypersaline events (up to 63 ppt for this period of record). The Core Bay is the portion of Florida Bay that has experienced widespread cyanobacterial blooms in recent years (Phlips and Badylak 1996). This ZSI is

components, in conjunction with knowledge of hydrographic inputs, allows for interpretation of the most important processes influencing water quality in the distinct zones.

One of the purposes of any monitoring program should be to use the data gained by routine sampling to extend our understanding of the system by developing new hypotheses as to the underlying processes which drive it. Much inference into the behavior of Florida Bay - Whitewater Bay can be made from the observed magnitude and distribution of water quality parameters.

EASTERN BAY

The Eastern Bay ZSI was characterized by a wide salinity range (0.2-53.0 ppt) indicative of a freshwater-seawater mixing zone. Depending on the season and year, portions of Eastern Bay were almost entirely freshwater or hypersaline. Spatial analyses of individual sampling dates show a gradient of increasing salinity in a northeast to southwest direction, in response to freshwater runoff from the Taylor Slough and C-111 canals. Robblee et al. (1989) also came to this conclusion in their analysis of salinity records from 1957-1988. The freshwater input to Eastern Bay was also reflected in its having generally higher concentrations of NO_3^- , NO_2^- , NH_4^+ , TON, and TOC than Western Bay (Fig. 5 & 6). We can infer from the data that Eastern Bay receives N from terrestrial sources in runoff and is an area with an active N cycle where ammonification, nitrification, and denitrification are evident, however, it is possible that P availability may cause some rate limitation.

or because of the existence of linear/longitudinal salinity gradients in river-dominated estuaries. In lagoonal estuaries, however, freshwater inputs are usually smaller and more diffuse, making tidal- and wind-mixing more important to water circulation and residence time. By objectively defining a ZSI, it is possible to class different areas of such a water body into functionally distinct zones. Such a classification is often necessary for statistically interpreting large data sets or for designing replicated experiments. The fact that the ZSI defined for Florida Bay are similar to sub-environments based on mollusc distributions (Turney and Perkins 1972), seagrass communities (Zieman et al. 1989), fish communities (Thayer and Chester 1989), and are complementary to what we know of the hydrology of the system lends credence to this classification process. That these station groupings were spatially contiguous supports our observations of comparable influence from allochthonous and autochthonous sources. This is no substitute for actual measurement of nutrient cycling rates and fluxes but does allow us to generate new hypotheses as to their contribution to water quality.

Using this approach, Florida Bay was divided into three distinct ZSI: Eastern Florida Bay, Core Florida Bay, and Western Florida Bay. The estuarine waters of the mangrove dominated coast of extreme southwestern Florida were divided into two distinct zones: Inner Mangrove (landward) and Outer Mangrove (seaward). While standard estuarine grouping using salinity range may have resulted in a similar definition of zones in the mangrove fringe, the grouping of stations in Florida Bay would have remained unresolved. The magnitude and variability of the principal

runoff from the mainland and were generally less than 25 ppt. The Inner Mangrove zone (7.1 ppt) had significantly lower salinities than the Outer Mangrove (14.6 ppt; $P=0.03$). Coot Bay displayed a narrow range of salinity and was intermediate to both Inner and Outer Mangrove zones. SRP concentrations were very low in all of the zones (Fig. 8), with most of Florida Bay generally being $<0.1 \mu\text{M}$. SRP was much higher in Outer Mangrove ($0.14 \mu\text{M}$) than the Inner Mangrove zone ($0.05 \mu\text{M}$; $P=0.01$).

The median TIN:SRP and TN:TP ratios (Fig. 9) of Eastern Bay (123 and 180, respectively) were significantly higher than both Western Bay (52 and 53) and Core Bay (48 and 128). In Whitewater Bay, N:P ratios indicated that the Inner Mangrove zone was potentially more P limited than the Outer Mangrove zone ($P=0.02$ and 0.01) with Coot Bay being highly variable.

DISCUSSION

The process of using principal component analysis in combination with multivariate cluster analysis has been shown to be a useful method of aggregating spatially distributed sampling stations into zones possessing similar water quality characteristics. Previously, investigators have relied on their own familiarity with an ecosystem or on anecdotal evidence in order to group spatially explicit stations for comparative purposes. The most common method used in estuaries has been that of grouping by salinity zones (e.g. polyhaline, mesohaline, etc.). This is useful only when there is an a priori reason to do so, as with species tolerance limits (Bulger et al. 1993)

Bay station ($4.34 \mu\text{g l}^{-1}$) was significantly greater than both Inner and Outer Mangrove zones (2.00 and $2.31 \mu\text{g l}^{-1}$) with a maximum concentration of $17.78 \mu\text{g l}^{-1}$.

DO concentrations in Eastern Bay (6.7 mg l^{-1}) were significantly higher than those in Western (6.2 mg l^{-1} ; $P=0.04$) and Core zones (6.1 mg l^{-1} ; $P=0.02$). The Core Bay had both lowest and highest measured DO for Florida Bay during the period of record (1.3 and 15.2 mg l^{-1}). The Outer Mangrove zone (4.8 mg l^{-1}) had significantly lower DO than the Inner Mangrove (6.2 mg l^{-1} ; $P=0.02$) which was $<$ Coot Bay (6.6 mg l^{-1}). DO saturation (Fig. 8) followed a slightly different trend than DO, mostly as a function of salinity. DO saturation in Eastern Bay (93.9%) was significantly higher than that of Western and Core zones (90.8 and 87.9%). The Core Bay had both lowest and highest measured DO saturation in Florida Bay for the period of record (38.8 and 170.7%). The Outer Mangrove zone had significantly lower DO saturation (61.8%) than both Inner Mangrove and Coot Bay (78.7 and 86.2%). Median water temperature was not significantly different among zones (Fig. 8) but was most variable in Coot Bay.

Salinity was generally higher in Florida Bay than in the Mangrove zones, reflecting the difference between the lagoonal Florida Bay ecosystem and the estuaries of the SW Florida coast (Fig. 8). Median salinity was highest and most variable in the Core Bay (35.8 ppt, range $9 - 63$ ppt) being hypersaline $\sim 50\%$ of the time. Salinity was lowest in the Eastern Bay (30.2 ppt) while Western Bay (35.3 ppt) was similar to the Gulf of Mexico and had a more narrow range ($25 - 51$ ppt). Salinity in the estuarine mangrove zones of the Whitewater Bay area were more influenced by freshwater

$P=0.35$; Fig. 6). NO_2^- in the Outer Mangrove zone ($0.27 \mu\text{M}$) was significantly higher than the Inner Mangrove ($0.20 \mu\text{M}$; $P=0.03$) while the Coot Bay station was highly variable with concentrations as high as $7.6 \mu\text{M}$. Median NO_3^- concentrations in Eastern Bay ($0.79 \mu\text{M}$; Fig. 6) were significantly greater ($P=0.02$) than both Western and Core Bays (0.24 and $0.28 \mu\text{M}$; $P=0.43$). NO_3^- concentrations increased from Inner Mangrove ($0.84 \mu\text{M}$) to the Outer Mangrove area ($1.79 \mu\text{M}$; $P=0.02$) with Coot Bay being lowest but highly variable ($0.63 \mu\text{M}$; $P=0.53$). NH_4^+ concentrations in the Eastern Bay ($3.49 \mu\text{M}$, Fig. 6) were significantly greater than Western Bay ($1.2 \mu\text{M}$; $P=0.01$). The Core Bay was highly variable with concentrations as high as $120 \mu\text{M}$. Both Inner and Outer Mangrove zones had comparable NH_4^+ levels (1.64 and $1.62 \mu\text{M}$; $P=0.68$) but the Coot Bay station was much more variable (range $0.24 - 75 \mu\text{M}$).

Turbidity, TP and Chl *a* were the three elements which made up the "phytoplankton" component (PC_{III}). Turbidities in both Western Bay (7.33 NTU) and Core Bays (5.76 NTU) were significantly higher than Eastern Bay (2.33 NTU ; Fig. 7). In Whitewater Bay, the Coot Bay station had highest overall turbidity (6.50 NTU) with lower concentrations in the Inner and Outer Mangrove zones (3.10 and 4.90 NTU), however these differences were not significant. TP in the Core Bay was significantly greater than Western Bay ($P=0.02$) which in turn was significantly higher than the Eastern Bay ($P=0.05$; Fig. 7). Both Coot Bay ($1.04 \mu\text{M}$) and the Outer Mangrove zone ($0.97 \mu\text{M}$) had significantly higher TP concentrations than the Inner Mangrove ($0.63 \mu\text{M}$). Chl *a* concentrations in the Eastern Bay ($0.90 \mu\text{g l}^{-1}$) were significantly lower than both Western and Core Bays (1.98 and $2.28 \mu\text{g l}^{-1}$; Fig. 7). Median Chl *a* at the Coot

WATER QUALITY CHARACTERISTICS AMONG ZSI

The "organic" component (PC_I), composed of TN, TON, APA, and TOC, explained 27% of the variance in the original data set (Table 2). The similarity in pattern among these four parameters across ZSI is striking (Fig. 5). TN and TON concentrations in the Core Bay were significantly higher than Eastern Bay ($P=0.008$ and 0.01), which in turn were greater than Western Bay ($P=0.001$ and 0.002). TN and TON levels in Coot Bay were greater than the Inner Mangrove ($P=0.003$), which in turn were greater than the Outer Mangrove zone ($P=0.009$). The strong correspondence between TN and TON was because almost all of the TN pool was present as TON (Table 1). Alkaline phosphatase activity in Florida Bay was highest in the Core Bay ($3.10 \mu\text{M h}^{-1}$; $P=0.04$ and 0.02) with Eastern and Western Bays not significantly different from each other (Fig. 5). While in Whitewater Bay, the APA in Coot Bay was greater than Inner Mangrove ($P=0.04$), which in turn were greater than the Outer Mangrove zones ($P=0.01$). TOC concentrations followed a similar trend in concentration and statistical significance with the Core Bay ($1355 \mu\text{M}$) greater than Eastern Bay ($713 \mu\text{M}$), which in turn were greater than the Western Bay ($419 \mu\text{M}$). In the Whitewater Bay area, Coot Bay had the highest median TOC overall ($2013 \mu\text{M}$; $P=0.01$ and 0.01) with lower concentrations in the Inner and Outer Mangrove zones (1355 and $1147 \mu\text{M}$; $P=0.03$).

Water quality variables with high loadings on the "inorganic nitrogen" component (PC_{II}) were NO_2^- , NO_3^- , and NH_4^+ (Table 2). NO_2^- concentrations were highest in Eastern Bay ($0.24 \mu\text{M}$; $P=0.02$) relative to Western and Core Bays (0.12 and $0.12 \mu\text{M}$;

variable in Whitewater Bay and the mangrove-lined estuaries in the northwestern section of the study area than in Florida Bay. The center of Florida Bay and Whitewater Bay exhibited high variability in the "phytoplankton" component. Western and Core Florida Bay were the most variable areas for the DO-temperature component. Salinity was the most variable in northeastern Florida Bay.

CLUSTER ANALYSIS

A hierarchical clustering algorithm, using the mean and SD of the five factor scores from each site, objectively grouped the 50 sampling sites into six groups having similar water chemistry, or zones of similar influence (ZSI; Fig. 4). The level at which branching of the dendrogram occurred indicates the relative similarities of the ZSI. Water quality characteristics at the Coot Bay site (Station 50; Fig. 1) were sufficiently different so as to be distinct. The four stations in the north-central region of Florida Bay that grouped together were called "Core Bay". The next cluster contained 22 stations in Florida Bay that was further separated into two ZSI. The "Eastern Bay" ZSI comprised 16 stations distributed in northeast through south Florida Bay along the main line of the Florida Keys. The "Western Bay" ZSI was made up of 6 stations in the extreme western part of the bay that is open to the Gulf of Mexico. All of the stations along the southwest coast or Whitewater Bay area formed a cluster, which was further divided into two ZSI: an "Inner Mangrove" and an "Outer Mangrove" area (Fig. 4). Interestingly, the station at the mouth of the C-111 canal in NE Florida Bay (Station 7; Fig. 1) was included in the Inner Mangrove ZSI.

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Table 1. Summary statistics for all observations, 1989-1995. MAD = median absolute deviation; BD = below detection.

Parameter	Median	MAD	Min.	Max.	<i>n</i>
Temperature (°C)	26.6	3.0	9.3	35.3	2588
Salinity (ppt)	26.8	9.9	0.0	63.0	2595
Dissolved Oxygen (mg l ⁻¹)	6.3	0.9	1.3	15.2	2552
NO ₃ ⁻ (μM)	0.46	0.40	BD	19.17	2575
NO ₂ ⁻ (μM)	0.19	0.10	BD	7.60	2592
NH ₄ ⁺ (μM)	2.09	1.32	BD	120.0	2587
Total Inorganic N (μM)	3.32	2.11	0.06	120.5	2569
Total Organic N (μM)	50.27	13.33	2.57	311.0	2566
Total N (μM)	56.72	14.48	7.00	314.9	2593
Soluble Reactive P (μM)	0.04	0.02	BD	1.10	2575
Total P (μM)	0.49	0.22	0.02	4.21	2589
Total Organic C (μM)	872.3	322.8	99.9	5334	2578
Alkaline Phosphatase (μM h ⁻¹)	0.44	0.29	0.01	6.44	2461
Chlorophyll <i>a</i> (μg l ⁻¹)	1.31	0.71	0.02	17.78	2518
Turbidity (NTU)	3.70	2.46	0.01	178.6	2462
TN:TP	116.9	53.0	0.0	2197	2566
TIN:SRP	70.6	53.5	0.0	9436	2575

Table 2. Results of principal component analysis shown as factor loadings for the first five principal components after VARIMAX rotation.

Parameter	Principal Component				
	PC _I	PC _{II}	PC _{III}	PC _{IV}	PC _V
Total N	0.93	0.17	0.07	0.12	0.00
Total Organic N	0.92	-0.06	0.10	0.14	-0.08
Alkaline Phosphatase	0.72	-0.08	0.22	-0.21	0.19
Total Organic C	0.71	0.03	0.13	0.13	-0.47
NO ₂ ⁻	-0.03	0.84	0.03	-0.06	-0.11
NO ₃ ⁻	-0.10	0.75	0.07	0.04	-0.39
NH ₄ ⁺	0.12	0.67	-0.12	-0.04	0.38
Turbidity	-0.01	0.07	0.78	-0.19	0.25
Total P	0.33	-0.07	0.75	0.23	-0.27
Chlorophyll <i>a</i>	0.46	-0.13	0.65	-0.07	-0.15
Dissolved Oxygen	0.01	0.00	-0.13	-0.87	0.10
Temperature	0.14	-0.17	-0.20	0.75	0.19
Salinity	-0.09	-0.10	-0.28	0.06	0.85
Soluble Reactive P	0.04	0.11	0.37	0.31	-0.28
%Total Variance	27.0	14.7	11.5	10.5	8.1

Cumulative Variance Explained = 71.8 %

FIGURE LEGENDS

Fig 1. Map of Florida Bay and Whitewater Bay showing the sampling stations.

Fig. 2. Set of maps, showing the spatial distributions of the mean factor scores for the five retained principal components. Hatchures point towards higher values.

Fig. 3. Set of maps, showing the spatial distributions of the SD of the factor scores for the five retained principal components. Hatchures point towards higher values.

Fig. 4. Map and cladogram of zones of similar influence (ZSI) as a result of cluster analysis on mean and SD of five retained principal component scores.

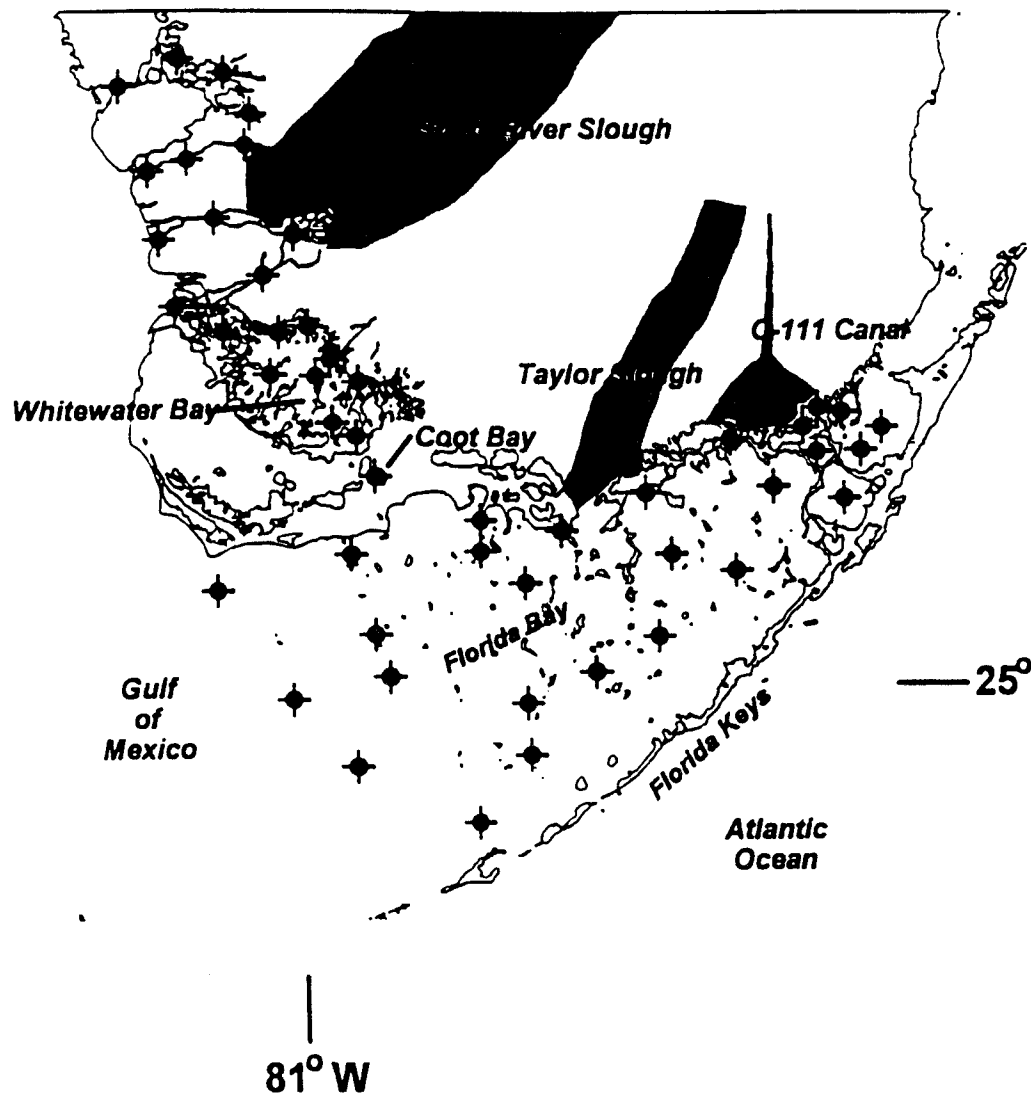
Fig. 5. Box-and-whisker plots of PC_I factors: TN (μM), TON (μM), APA ($\mu\text{M h}^{-1}$), and TOC (μM). The center horizontal line in the box is the median, the top and bottom of the box are the 25th and 75th percentiles (quartiles), and the ends of the whiskers are the 5th and 95th percentiles. The notch is the 95 % confidence interval of the median. FBC = Core Florida Bay, FBE = Eastern Florida Bay, FBW = Western Florida Bay, WBC = Coot Bay, WBI = Inner Mangrove zone of Whitewater Bay, and WBO = Outer Mangrove zone.

Fig. 6. Box-and whisker plots of PC_{II} factors: NO_2^- (μM), NO_3^- (μM), and NH_4^+ (μM).

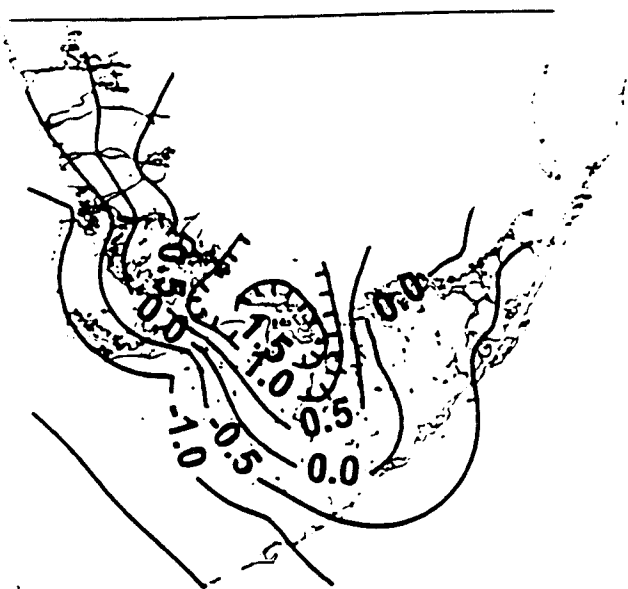
Fig. 7. Box-and-whisker plots of PC_{III} factors: turbidity (NTU), TP (μM), and Chl *a* ($\mu\text{g l}^{-1}$).

Fig. 8. Box-and-whisker plots of PC_{IV} and PC_V factors: DO saturation (%), temperature ($^{\circ}\text{C}$), and salinity (ppt). SRP (μM) was not a factor in the PCA results.

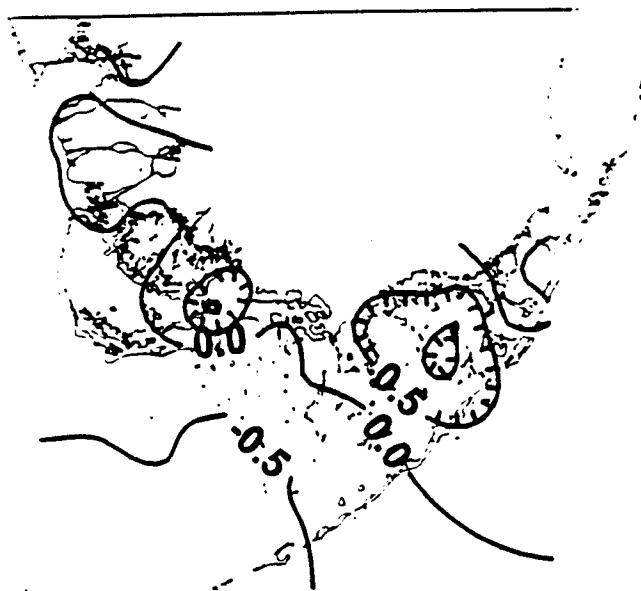
Fig. 9. Box-and whisker plots of molar ratios of TIN : SRP and TN : TP.



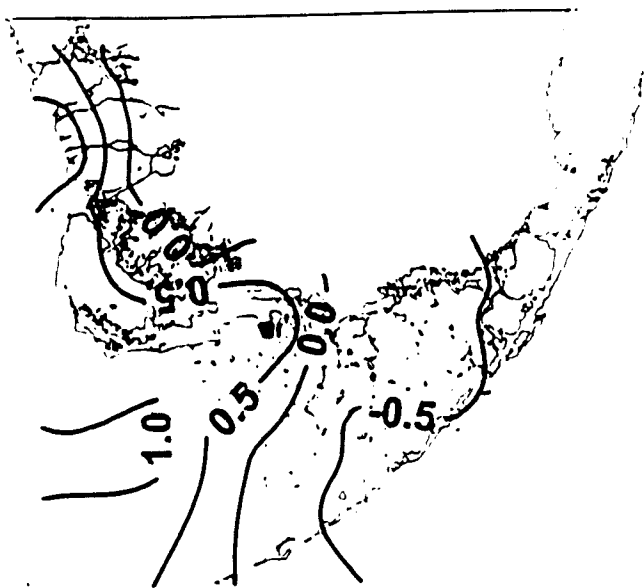
PC_I - Organic Matter



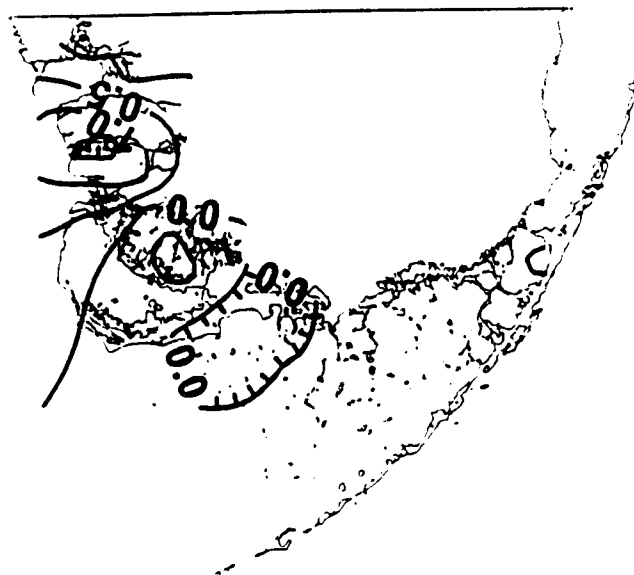
PC_{II} - Dissolved Inorganic N



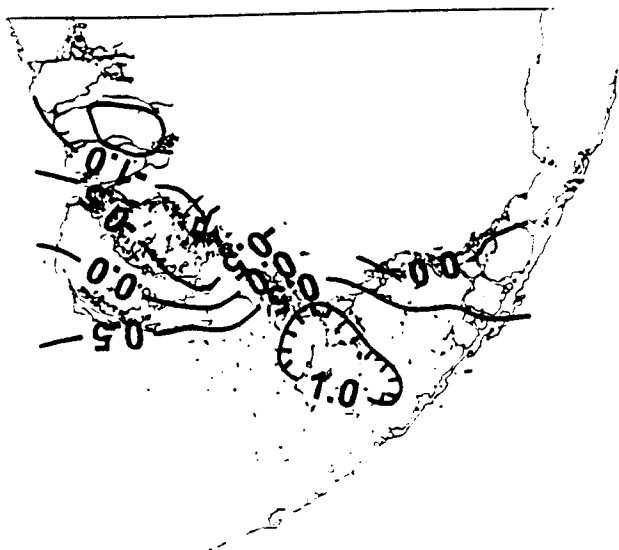
PC_{III} - Phytoplankton Abundance



PC_{IV} - Low DO, High T

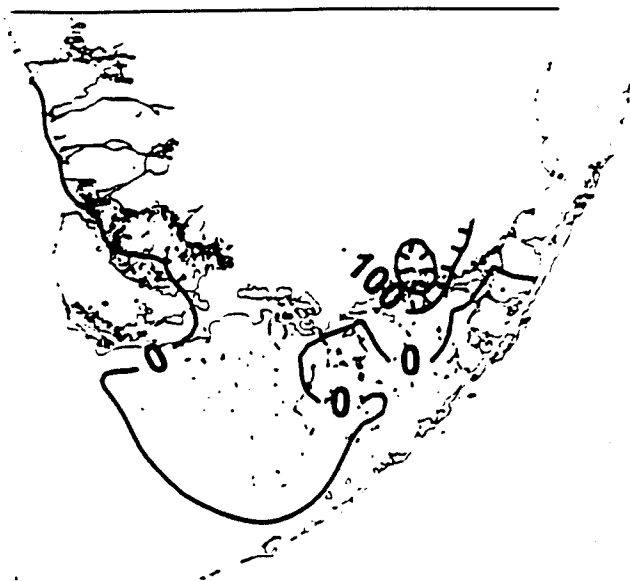


PC_V - Salinity

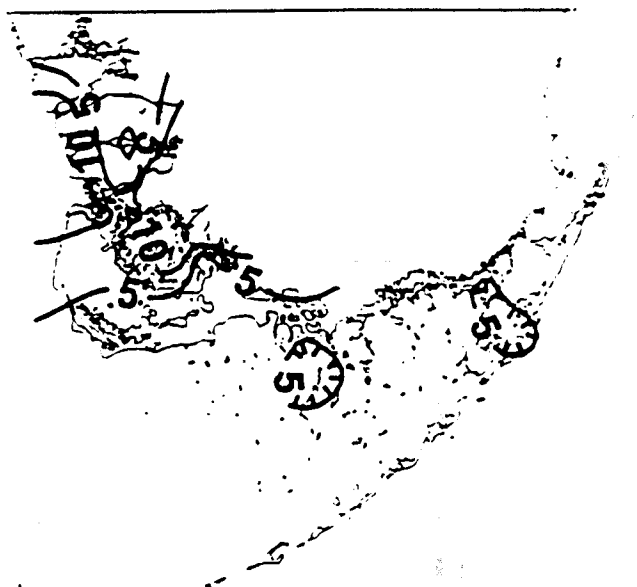


Factor Score Means

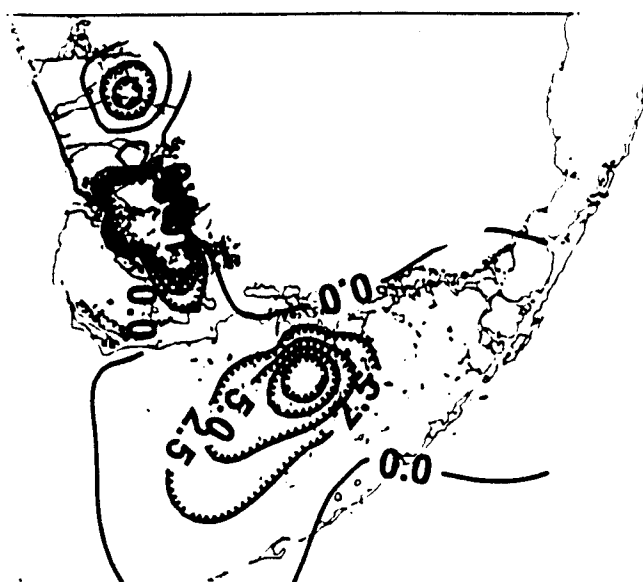
PC_I - Organic Matter



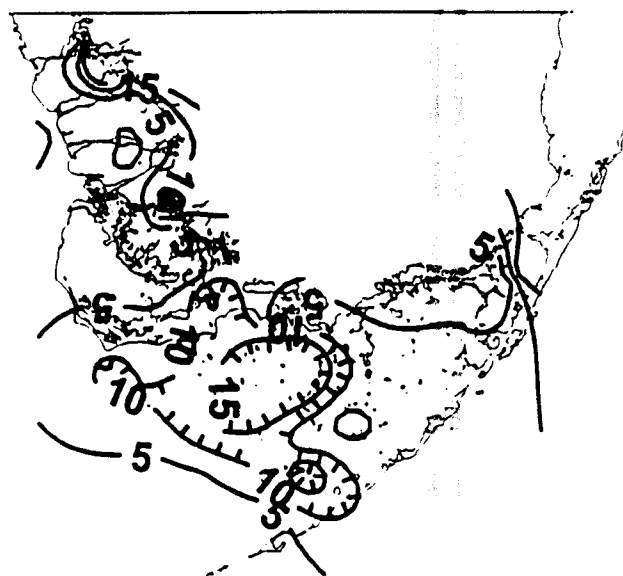
PC_{II} - Dissolved Inorganic N



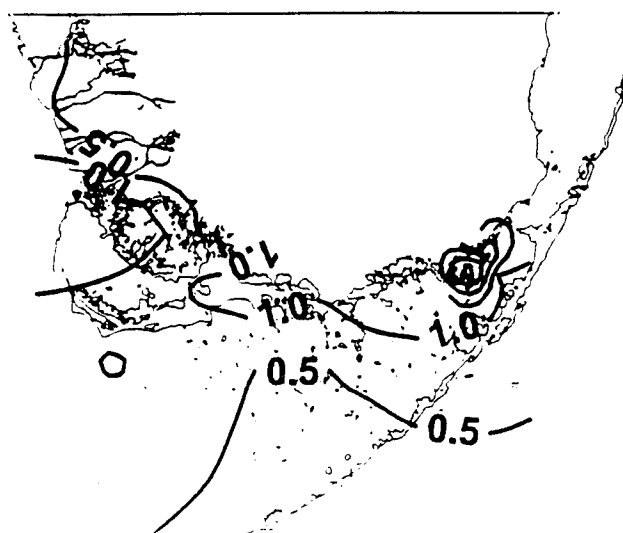
PC_{III} - Phytoplankton Abundance



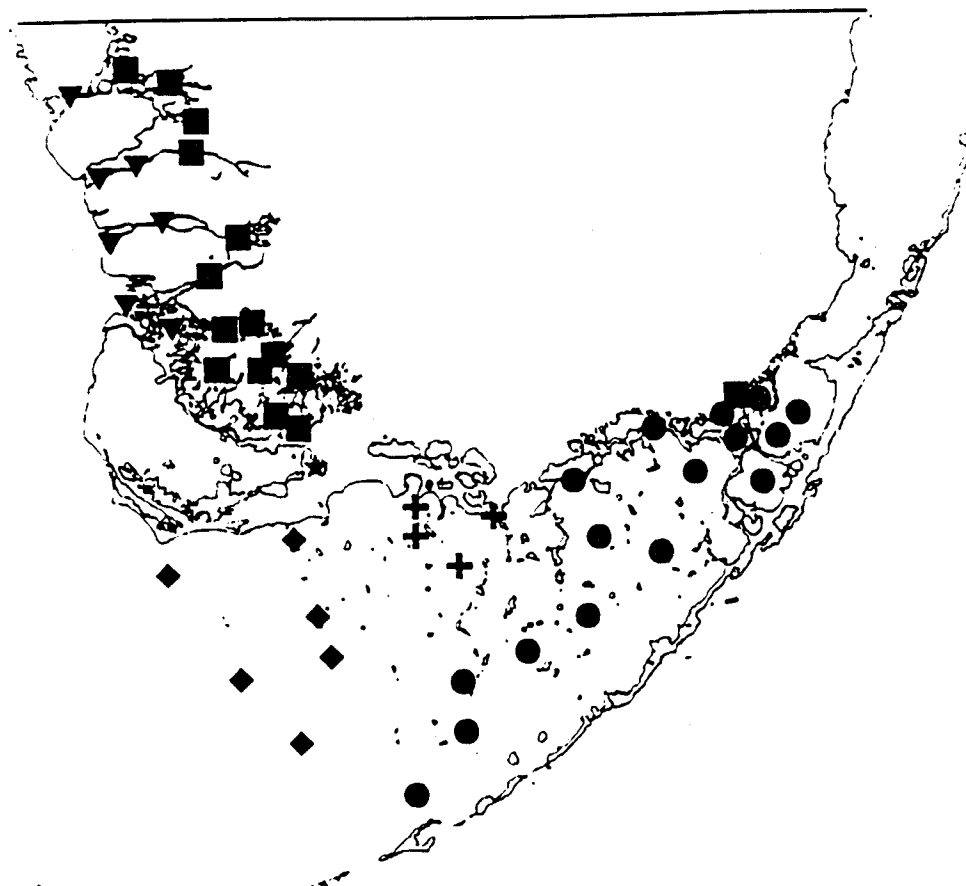
PC_{IV} - Low DO, High T



PC_V - Salinity



Factor Score
Standard Deviation



Relative distance between clusters

