

Florida Keys National Marine Sanctuary
Water Quality Protection Program

1997 Annual Report

Principal Investigator

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Executive Summary

The area encompassed by the Florida Keys National Marine Sanctuary is characterized by complex patterns on both spatial and temporal scales. Much of this variability is due to seasonal changes in regional circulation regimes. The Sanctuary must not be thought of as a distinct and separate ecosystem; it is directly influenced by the Florida Current, the Gulf of Mexico Loop Current, and by tidal exchange with Florida Bay (see Appendix 2). These external forcings also affect the physical and chemical makeup of the water in the Sanctuary (water quality).

The Management Plan divided the Sanctuary into ca. 7 segments (Fig. 1) on the basis of geographical differences. These segments also may be distinguished by differences in hydrography as well. Segment 1 includes the Tortugas and surrounding waters and is most influenced by the Tortugas gyre of the Loop Current. Segment 2 includes the Marquesas Keys and Quicksands; Segment 4 is the shallow waters in and around the myriad keys of the Backcountry. Both these segments are influenced by water moving down from the Southwest Florida Shelf (Shelf). Segment 6 is called the Sluiceway as it heavily influenced by transport from Florida Bay and the Shelf. Segment 5, 7, and 9 include the inshore, Hawk Channel and reef tract of the Atlantic side of the Florida Keys. Segment 5 is the Lower Keys, 7 is the Middle Keys, and 9 is the Upper Keys.

Salinity was highest and most variable in the Sluiceway and Backcountry and lowest most consistent in the Middle and Upper Keys. Interestingly, the Lower Keys had higher salinity than the Middle and Upper Keys. Silicate (an indicator of freshwater input) was highest in the Sluiceway and Backcountry. Total phosphorus (TP) was highest in the Backcountry and Sluiceway and lowest in the Tortugas and Upper Keys with the Marquesas being intermediate. Total inorganic nitrogen concentrations (TIN) were generally highest in the Backcountry, intermediate in the Lower and Middle Keys, and lowest in the Tortugas and Marquesas. Chlorophyll *a* concentrations (Chl *a*, phytoplankton biomass) were highest in the Marquesas (due to Shelf input) and lowest in the Tortugas and Upper Keys. Turbidity (amount of suspended matter) was highest and most variable in the shallow waters of the Backcountry, Sluiceway, and Marquesas and lowest in the Tortugas.

Concentrations of TIN, TP, silicate, and turbidity were highest inshore and declined with distance away from land towards the reef tract. However, the Lower and Middle Keys had much higher alongshore concentrations than the Upper Keys, supporting the hypothesis that these areas are significantly influenced by water transported from the Sluiceway and Shelf. Furthermore, concentrations of TIN, TP, silicate, Chl *a*, and turbidity were highest in those individual transects situated on transverse channels and passes through the Keys where direct exchange of water occurs on a daily basis. We believe that the FKNMS monitoring program coupled with our outside monitoring of Florida Bay, Biscayne Bay, Whitewater Bay, Ten Thousand Islands, and Shelf will continue to give us new insight as to how external forces affect the internal ecosystem functioning of this valuable marine sanctuary.

Project Background

This report includes water quality data collected on a quarterly basis from 150 stations within the Florida Keys National Marine Sanctuary (Fig. 1). The period of record for this report is from Mar. 95 - Oct. 97 and includes 9 sampling events. A summary of the stations, their latitudes and longitudes, and the period of record surveyed are enclosed in Table 1.

Water quality parameters monitored at each station include the dissolved nutrients nitrate+nitrite (NO_x^-), nitrite (NO_2^-), nitrate (NO_3^-), ammonium (NH_4^+), and soluble reactive phosphate (SRP). Total concentrations of nitrogen (TN), inorganic nitrogen (TIN), organic nitrogen (TON), organic carbon (TOC), and phosphorus (TP) were also measured. Concentrations for each of these parameters are reported $\mu\text{mol l}^{-1}$ (μM). Biological parameters monitored include chlorophyll *a* (Chl *a*; $\mu\text{g l}^{-1}$) and alkaline phosphatase activity (APA; $\mu\text{M hr}^{-1}$). Field parameters determined by CTD casts for both the surface and bottom of the water column at each station include salinity (ppt), dissolved oxygen (DO; mg l^{-1}), temperature ($^{\circ}\text{C}$), light attenuation (k_d ; m^{-1}), and in vivo chlorophyll *a* fluorescence. Turbidity as both optical backscatterance (OBS) and nephelometry (NTU) was also measured at each station. We continue to develop a curvilinear relationship between OBS and NTU for comparison with our pre-existing datasets from other regions of South Florida.

Results

Summary statistics for all measured parameters split out by segment and sampling depth are shown in Table 2. This summary includes data from all sampling dates and stations for the period of record listed by number of samples (n), minimum value (Min.), maximum value (Max.), median value (Median), and median absolute deviation (MAD). Typical water quality data is skewed to the left which results in a non-normal distribution. It is therefore more appropriate to use the median as the measure of central tendency. The median absolute deviation is computed by taking the median of $|X - \text{median}(X)|$ and is similar to the standard deviation of the mean.

When stations were selected as having both surface and bottom samples, some general trends were observed (data not shown). NO_3^- , NH_4^+ , turbidity, and salinity were all higher in the bottom water while TON, TOC, temperature, SiO_4 , and DO saturation were lower. Decreased temperature and increased salinity is indicative of intrusion of deeper denser oceanic waters to the region and may also account for the increase in NO_3^- . However, increased NH_4^+ and turbidity were most probably due to benthic flux and resuspension. Lower concentrations of TON, TOC, and SiO_4 in bottom waters imply a surface source. The source of SiO_4 in this area of carbonate sediments is from silicate sands and siliceous periphyton (diatoms) found in the Shark River Slough, Taylor Slough, and C-111 canal watersheds. SiO_4 can therefore be used as a freshwater tracer in this system. NO_2^- , TP, SRP, and APA did not vary with depth.

Surface data were grouped according to several subjective spatial distributions which will be discussed as presented. Summary statistics for the all stations for each measured parameter as grouped are reported as box-and-whisker plots (Fig. 2 - 5). The box-and-whisker plot is powerful graphical visualization of summary statistics (median, range, shape of the data distribution curve) and can also be used as a nonparametric ANOVA. These characteristics make it extremely useful in the analysis of non-normally distributed water quality data. The center horizontal line is the median of the data, the 2 lines defining the top and bottom of the box are the 25th and 75th percentiles (quartiles), and the ends of the whiskers are the 10th and 90th percentiles. The notch in the box is the 95 % confidence interval of the median. If the notches among groups do not overlap, they are significantly different at $P < 0.05$. Outliers were excluded from the graphs to reduce compression. In addition, differences in parameters among groups were quantified using the non-parametric, Kruskal-Wallis test with significance set at $P < 0.05$.

Discussion

Stations Grouped By FKNMS Segment

The first spatial grouping was by segment in accordance with the management plan (Fig. 1):

- Segment 1 - Tortugas
- Segment 2 - Marquesas
- Segment 4 - Backcountry
- Segment 5 - Lower Keys
- Segment 6 - Sluiceway
- Segment 7 - Middle Keys
- Segment 9 - Upper Keys

Approximately 90% of the TN pool was made up of organic N. Dissolved inorganic nitrogen concentrations were generally highest in the Backcountry with the Lower and Middle Keys intermediate (Fig. 2). NH_4^+ made up the bulk of the pool, NO_3^- accounted for 10-40 %, and NO_2^- was <1 %. NO_3^- was highest in the Backcountry followed by the Lower, Middle, and Upper Keys. Interestingly, NO_3^- concentrations in the Sluiceway were not significantly different than the Marquesas although the range was much greater. The Tortugas segment had the lowest NO_3^- levels. NO_2^- concentrations in the Tortugas and Marquesas were significantly lower than for the other Keys segments. NH_4^+ was highest in the Backcountry and lowest in the Tortugas.

TP was highest in the Backcountry and Sluiceway (Fig. 2) and lowest in the Tortugas and Upper Keys with the Marquesas being intermediate. SRP was low ($\sim 0.01 \mu\text{M}$) for all areas. SRP was generally ~ 10 % of TP for all but the Middle Keys where it was ~ 5 % of TP. Chl *a* concentrations varied between $0.01 - 1.7 \mu\text{g l}^{-1}$ with highest levels in the Marquesas (Fig. 2) and lowest concentrations in the Tortugas and Upper Keys. Silicate was highest in the Sluiceway and Backcountry. These are areas which receive freshwater from Shark River Slough and Taylor Slough (see Appendix 2).

Salinity was highest and most variable in the Sluiceway and Backcountry and was lowest and least variable in the Middle and Upper Keys (Fig. 2). Interestingly, the Lower Keys have higher salinity than the Middle and Upper Keys. The different water sources become more apparent in examining water temperature. The Tortugas, Marquesas, and Lower keys had significantly higher temperatures than the Middle and Upper Keys. The higher salinity and temperature in these segments is the direct result of the Florida Current. Temperature was most variable in the Backcountry and Sluiceway due to the influence of Shelf and Florida Bay waters (Appendix 2).

Turbidity was highest and most variable in the Backcountry, Sluiceway, and Marquesas (Fig. 2) with lowest turbidity in the Tortugas segment. The shallow Quicksands in the Marquesas probably accounted for the elevated turbidity in this segment. Lowest median DO_{sat} ($\sim 95\%$) occurred in the Tortugas, Marquesas, and Lower Keys but never got below 70 %. This is

something that would not have been evident had we reported DO in mg l^{-1} . The greatest range in DO_{sat} was in the Sluiceway and Backcountry and is indicative of shallow, benthic driven systems.

Stations Grouped By Distance along Transect

Grouping by segment did not tell us anything about differences in water quality along the transects away from land. Therefore, we aggregated stations according to their location along the transects namely:

- Segment 5 - Alongshore
- Segment 5 - Hawk Channel
- Segment 5 - Reef Tract
- Segment 7 - Alongshore
- Segment 7 - Hawk Channel
- Segment 7 - Reef Tract
- Segment 9 - Alongshore
- Segment 9 - Hawk Channel
- Segment 9 - Reef Tract
- Tortugas - Alongshore
- Tortugas - Channel
- Tortugas - Offshore

These groupings will probably be changed when enough data is collected to analyze the data using a multivariate approach. Since sampling locations in the Tortugas were only recently set up to address this question, the data is sparse. In addition, there are only two "channel" stations in the Tortugas which makes the data more susceptible to outlier conditions. For these reasons we will not discuss the transect data for this area at this time.

Levels of TIN in the Upper, Middle, and Lower Keys were significantly higher alongshore than on the reef tract (Fig. 3). This implies an onshore source which is diluted by low nutrient Atlantic Ocean waters. However, alongshore TIN concentrations in the Upper Keys were not nearly as high as those found in the Middle and Lower Keys. This raises another possibility: that the alongshore concentrations are due to transport of higher nutrient water from Florida Bay and the Shelf through the passes and Backcountry area. Alongshore TP concentrations were higher only in the Lower Keys. This supports the transport theory because TP is very low in Florida Bay but much higher on the Shelf (Appendix 2).

There was no trend in Chl a with distance from land (Fig. 3), although concentrations in the Middle and Lower Keys were higher than the Upper Keys. Turbidity in all segments declined significantly with distance from land. Higher alongshore turbidity is most probably due to the shallower water column being more easily resuspended by wind and wave action.

In all cases, alongshore salinities were much more variable than those found offshore. In the Lower Keys, alongshore salinity was higher than offshore (Fig. 4), which is indicative of water being transported from the Backcountry. Salinities along Middle Keys transects were not significantly different. In the Upper Keys, salinities were lower alongshore than on the reef tract. This may be due to increased freshwater input from land or exchange with southern Biscayne Bay (Appendix 2).

Silicate concentrations near the coast were elevated relative to the reef tract with much higher concentrations occurring in the Lower and Middle Keys (Fig. 4). It is clear that the source of silicate to the nearshore waters of the Lower and Middle Keys is from the Sluiceway and Backcountry, which lends more support to the transport hypothesis mentioned above (Appendix 2). DO saturation was relatively consistent along transects with the alongshore stations experiencing more variability than offshore. Light extinction was highest alongshore and improved with distance from land. Light extinction is directly related to the turbidity of the water, so this was an expected trend.

Stations Grouped By Shore Type

One of the concerns of this program is to determine the contribution of water movement through the passes of the Keys to the water quality of the reef. To this end we decided to characterize the transects three ways: those that are located along the Safety Valve of Biscayne Bay (BISC), those that abut land (LAND), and those transects which are aligned along an open pass through the Keys (PASS). Figure 5 shows that TIN, TP, Chl *a*, silicate, and turbidity were elevated in the passes relative to those against land. Both salinity and temperature were lower in the passes. This effect diminishes as one moves offshore. Interestingly, those transects located along the open channels of Biscayne Bay were lowest of all for TIN, TP, Chl *a*, silicate, and turbidity.

Acknowledgments

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This is contribution #59 of the Southeast Environmental Research Program at Florida International University.

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- Fig. 3. Box-and-whisker plots of TIN (μM), TP (μM), Chl *a* ($\mu\text{g l}^{-1}$), and turbidity (NTU),
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Figures

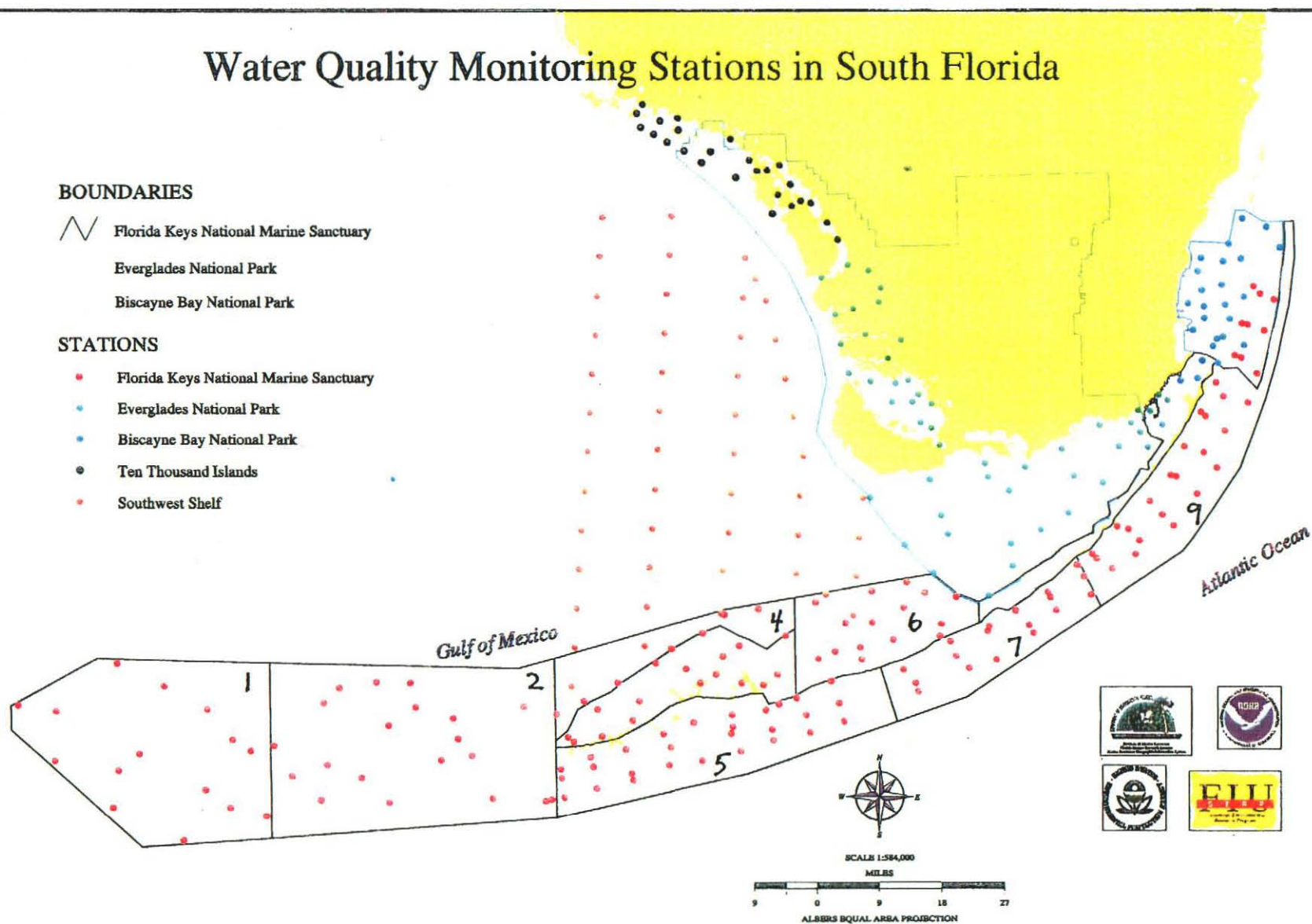
Water Quality Monitoring Stations in South Florida

BOUNDARIES

-  Florida Keys National Marine Sanctuary
- Everglades National Park
- Biscayne Bay National Park

STATIONS

-  Florida Keys National Marine Sanctuary
-  Everglades National Park
-  Biscayne Bay National Park
-  Ten Thousand Islands
-  Southwest Shelf



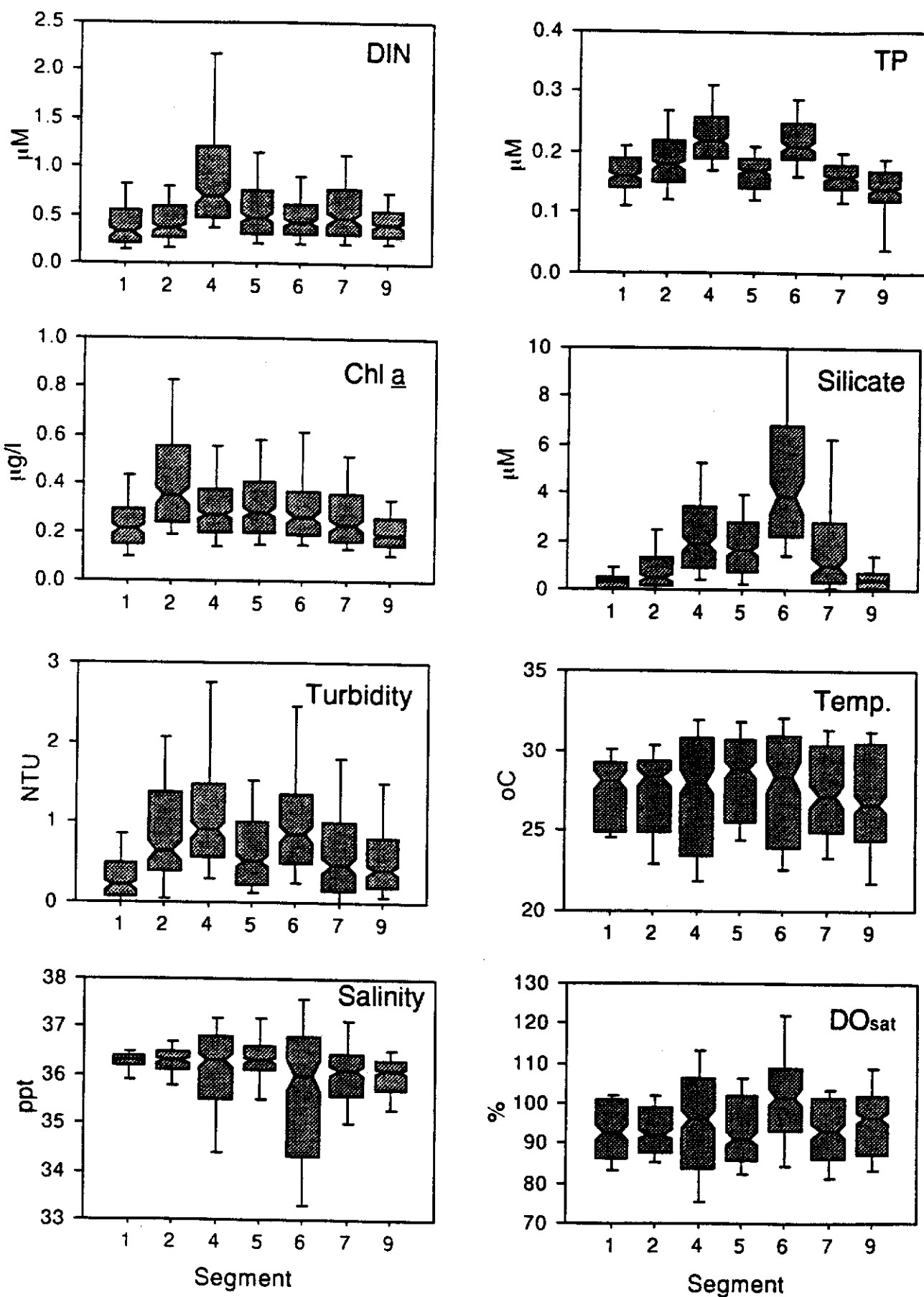


FIG. 2

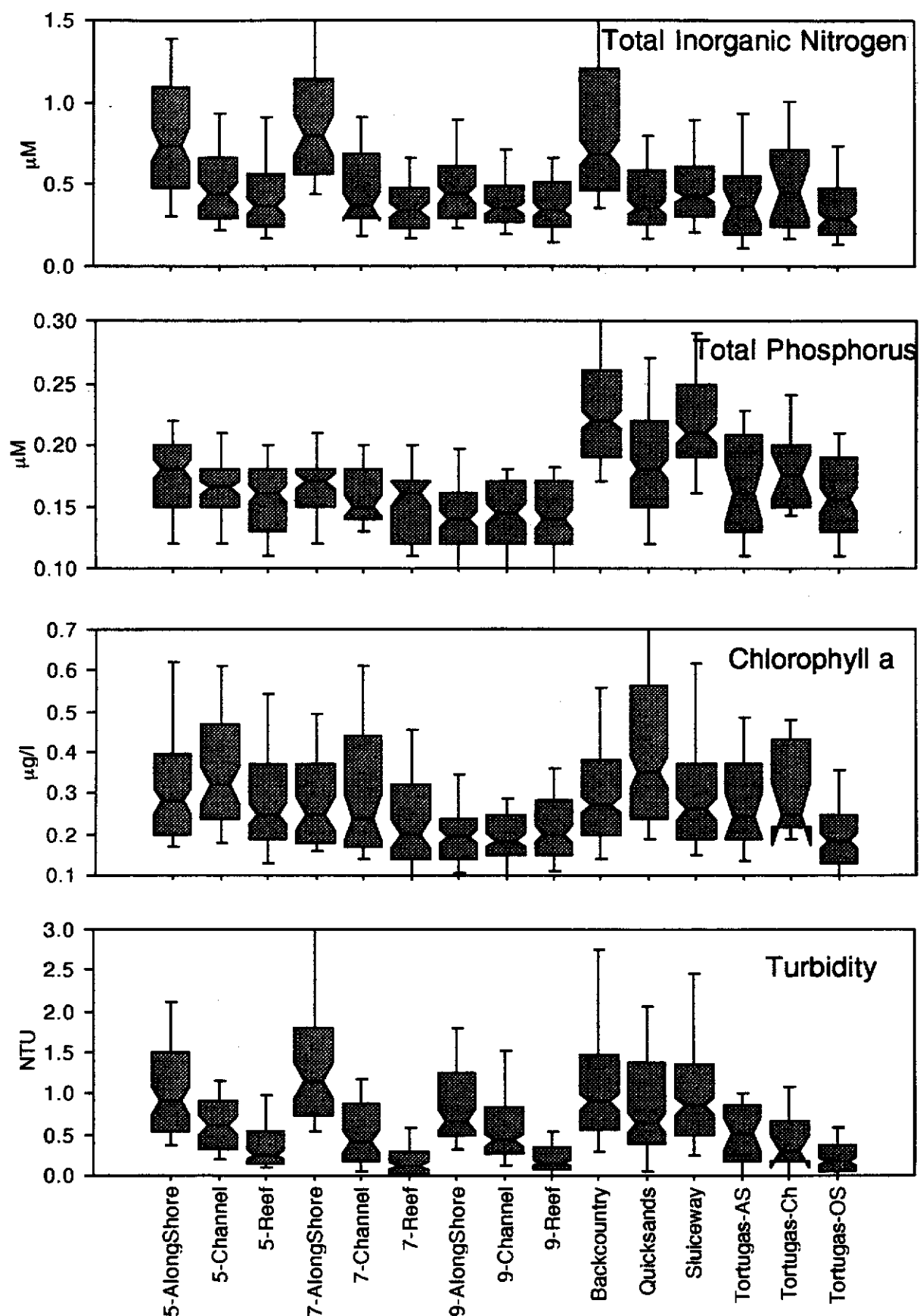


FIG. 3

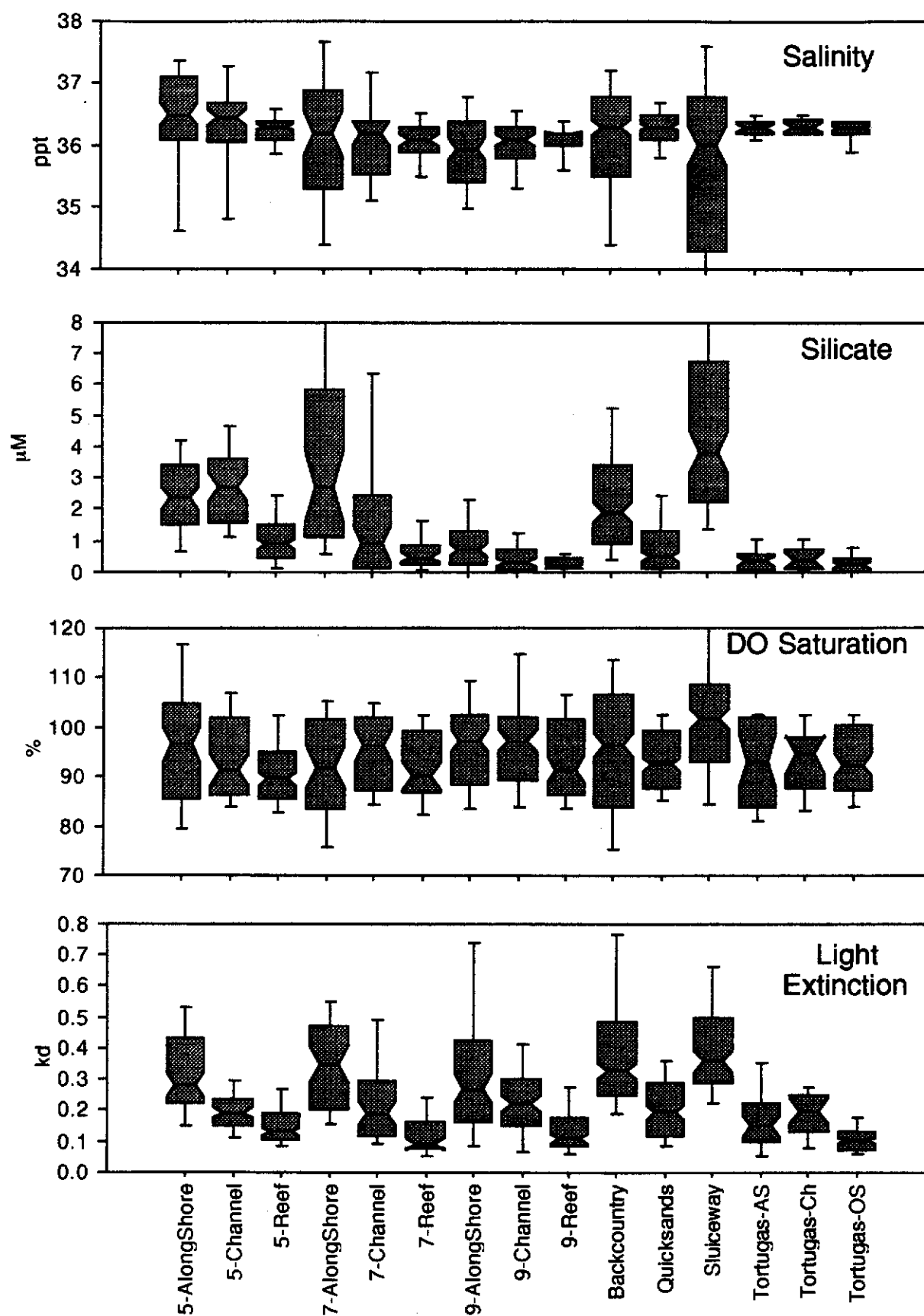
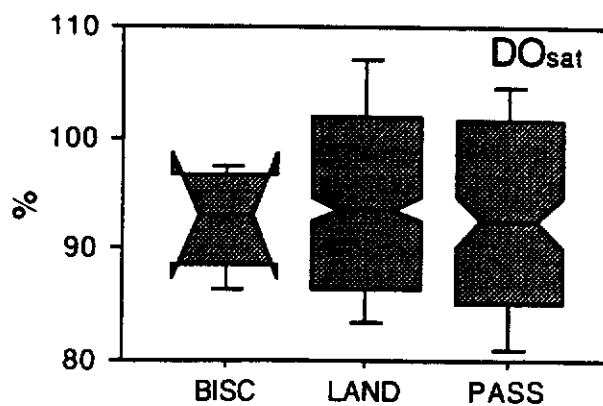
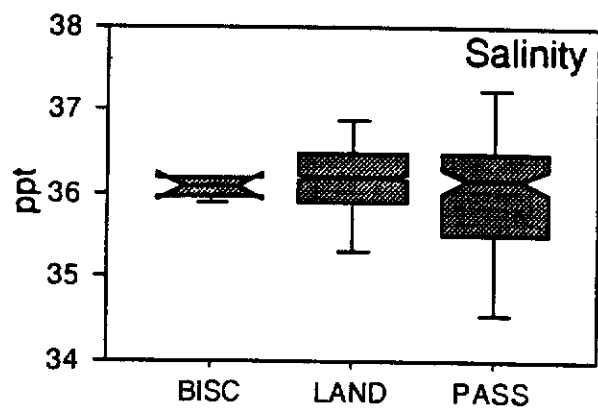
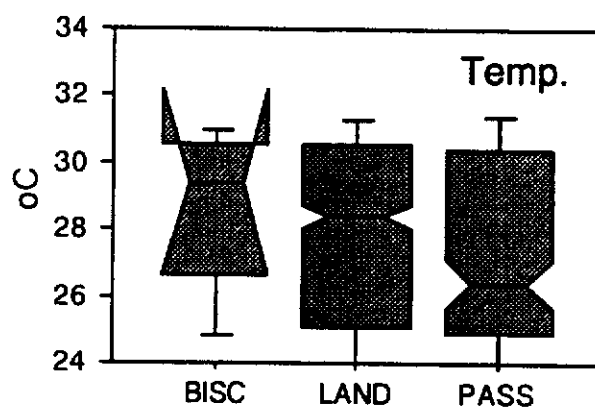
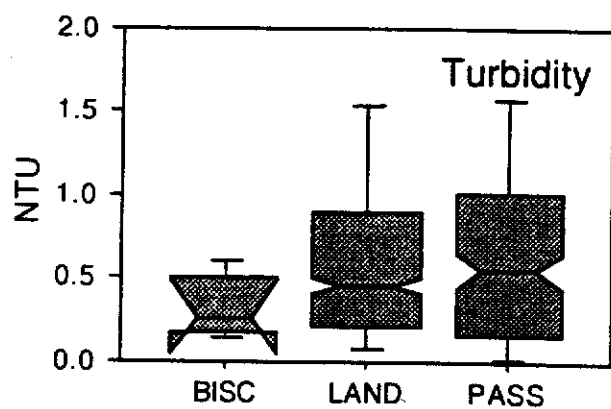
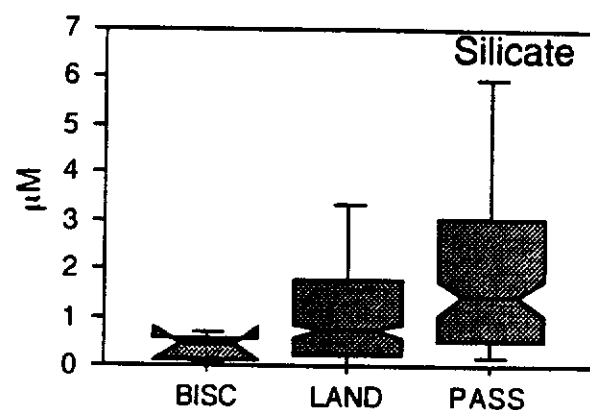
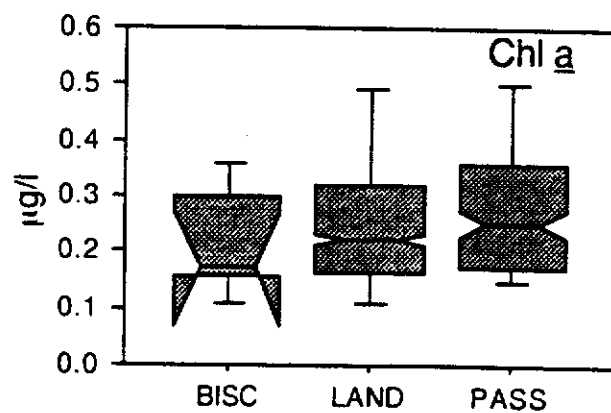
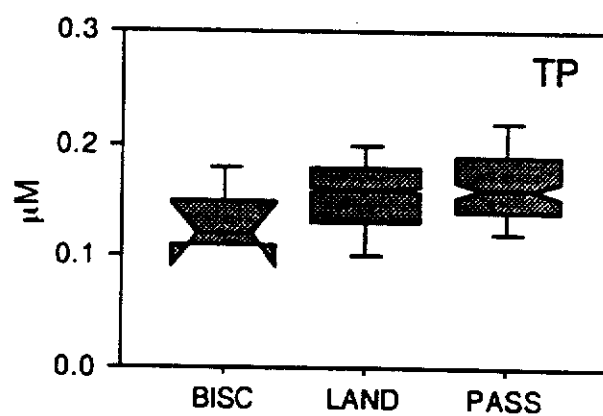
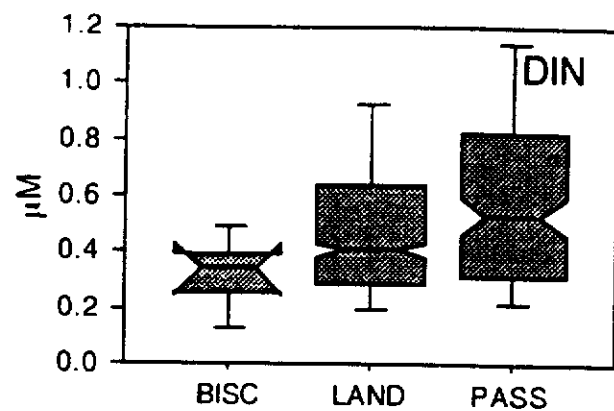


FIG. 4



Transect

Transect

FIG. 5

Tables

Table 1: Florida Keys National Marine Sanctuary Station Summary

Station Name	Station #	Latitude	Longitude	Period of Record	Surveys
Fowey Rocks	200	25 35.400	-80 06.000	Mar. 95 - July 97	1 - 9
Sands Key	201	25 30.600	-80 09.900	Mar. 95 - July 97	1 - 9
Bowles Bank	202	25 29.628	-80 09.006	Mar. 95 - July 97	1 - 9
Triumph Reef	203	25 28.832	-80 07.061	Mar. 95 - July 97	1 - 9
Elliott Key	204	25 25.849	-80 11.732	Mar. 95 - July 97	1 - 9
Margo Fish Shoal	205	25 25.679	-80 10.920	Mar. 95 - July 97	1 - 9
Ajax Reef	206	25 24.898	-80 08.580	Mar. 95 - July 97	1 - 9
Old Rhodes Key	207	25 21.866	-80 12.905	Mar. 95 - July 97	1 - 9
Old Rhodes Key Channel	208	25 21.551	-80 12.031	Mar. 95 - July 97	1 - 9
Channel Key	209	24 35.142	-81 43.363	Mar. 95 - July 97	1 - 9
Old Rhodes Key Reef	210	25 19.500	-80 09.816	Mar. 95 - July 97	1 - 9
Pennikamp G27	211	25 18.473	-80 15.699	Mar. 95 - July 97	1 - 9
Turtle Harbor	212	25 17.671	-80 14.725	Mar. 95 - July 97	1 - 9
Turtle Reef	213	25 15.787	-80 11.264	Mar. 95 - July 97	1 - 9
Port Elizabeth	214	25 14.772	-80 17.951	Mar. 95 - July 97	1 - 9
Carysfort Channel	215	25 14.200	-80 17.338	Mar. 95 - July 97	1 - 9
Carysfort Reef	216	25 13.200	-80 13.000	Mar. 95 - July 97	1 - 9
Rattlesnake Key	217	25 10.399	-80 20.391	Mar. 95 - July 97	1 - 9
White Bank	218	25 09.538	-80 17.673	Mar. 95 - July 97	1 - 9
The Elbow	219	25 08.500	-80 15.500	Mar. 95 - July 97	1 - 9
Radabob Key	220	25 06.813	-80 22.405	Mar. 95 - July 97	1 - 9
Radabob Key Channel	221	25 06.615	-80 21.653	Mar. 95 - July 97	1 - 9
Dixie Shoal	222	25 04.342	-80 18.766	Mar. 95 - July 97	1 - 9
Mosquito Bank	223	25 03.611	-80 25.387	Mar. 95 - July 97	1 - 9
Molasses Reef Channel	224	25 01.849	-80 23.716	Mar. 95 - July 97	1 - 9
Molasses Reef	225	25 01.000	-80 22.045	Mar. 95 - July 97	1 - 9
Tavernier Harbor	226	25 00.504	-80 30.089	Mar. 95 - July 97	1 - 9
Triangles	227	25 00.100	-80 28.494	Mar. 95 - July 97	1 - 9
Conch Reef	228	24 58.600	-80 27.000	Mar. 95 - July 97	1 - 9
Plantation Point	229	24 57.007	-80 33.731	Mar. 95 - July 97	1 - 9
The Rocks	230	24 56.379	-80 33.097	Mar. 95 - July 97	1 - 9
Davis Reef	231	24 55.500	-80 30.200	Mar. 95 - July 97	1 - 9
Upper Matecumbe Key	232	24 55.622	-80 35.911	Mar. 95 - July 97	1 - 9
Upper MateCumbe Chnl	233	24 54.111	-80 34.943	Mar. 95 - July 97	1 - 9
Fish Haven	234	24 51.766	-80 34.018	Mar. 95 - July 97	1 - 9
Lower Matecumbe Key	235	24 52.274	-80 40.119	Mar. 95 - July 97	1 - 9
Alligator Shoal	236	24 51.582	-80 39.744	Mar. 95 - July 97	1 - 9
Alligator Reef	237	24 49.959	-80 38.944	Mar. 95 - July 97	1 - 9
Matecumbe Harbor	238	24 50.065	-80 44.810	Mar. 95 - July 97	1 - 9
Lower Matecumbe Chnl	239	24 48.134	-80 42.972	Mar. 95 - July 97	1 - 9
Matecumbe Offshore	240	24 47.072	-80 42.342	Mar. 95 - July 97	1 - 9
Long Key	241	24 48.148	-80 48.534	Mar. 95 - July 97	1 - 9

Station Name	Station #	Latitude	Longitude	Period of Record	Surveys
Long Key Channel	242	24 47.490	-80 48.735	Mar. 95 - July 97	1 - 9
Tennessee Reef	243	24 43.761	-80 47.609	Mar. 95 - July 97	1 - 9
Long Key Pass Inshore	244	24 47.600	-80 51.800	Mar. 95 - July 97	1 - 9
Long Key Pass Channel	245	24 45.700	-80 51.700	Mar. 95 - July 97	1 - 9
Long Key Pass Offshore	246	24 42.790	-80 51.488	Mar. 95 - July 97	1 - 9
Key Colony Beach	247	24 42.791	-81 00.669	Mar. 95 - July 97	1 - 9
Coffins Patch Channel	248	24 41.035	-80 58.986	Mar. 95 - July 97	1 - 9
Coffins Patch Offshore	249	24 39.936	-80 58.657	Mar. 95 - July 97	1 - 9
Seven Mile Bridge	250	24 41.516	-81 10.947	Mar. 95 - July 97	1 - 9
Seven Mile Br. Channel	251	24 38.701	-81 09.905	Mar. 95 - July 97	1 - 9
Seven Mile Br. Offshore	252	24 36.416	-81 09.265	Mar. 95 - July 97	1 - 9
Spanish Harbor Keys	253	24 38.722	-81 18.434	Mar. 95 - July 97	1 - 9
Bahia Honda Key	254	24 39.475	-81 15.901	Mar. 95 - July 97	1 - 9
Bahia Honda Channel	255	24 37.301	-81 14.585	Mar. 95 - July 97	1 - 9
Bahia Honda Offshore	256	24 35.098	-81 14.045	Mar. 95 - July 97	1 - 9
Long Beach	257	24 38.000	-81 20.239	Mar. 95 - July 97	1 - 9
Big Pine Channel	258	24 35.594	-81 19.453	Mar. 95 - July 97	1 - 9
Big Pine Shoal	259	24 34.222	-81 19.300	Mar. 95 - July 97	1 - 9
Newfound Harbor Keys	260	24 37.530	-81 24.997	Mar. 95 - July 97	1 - 9
American Shoal Channel	261	24 35.000	-81 30.000	Mar. 95 - July 97	1 - 9
Looe Key Channel	262	24 35.171	-81 25.132	Mar. 95 - July 97	1 - 9
Looe Key	263	24 32.906	-81 23.845	Mar. 95 - July 97	1 - 9
Conch Reef	264	24 56.806	-80 27.568	Mar. 95 - July 97	1 - 9
	265	24 49.000	-81 05.000	Mar. 95 - July 97	1 - 9
Tarpon Creek	266	24 36.663	-81 30.316	Mar. 95 - July 97	1 - 9
American Shoal	267	24 31.805	-81 29.238	Mar. 95 - July 97	1 - 9
Saddlebunch Keys	268	24 35.269	-81 34.619	Mar. 95 - July 97	1 - 9
West Washerwoman	269	24 33.566	-81 33.573	Mar. 95 - July 97	1 - 9
Maryland Shoal	270	24 31.297	-81 33.859	Mar. 95 - July 97	1 - 9
Boca Chica Key	271	24 33.400	-81 40.000	Mar. 95 - July 97	1 - 9
Eastern Sambo	272	24 31.000	-81 39.700	Mar. 95 - July 97	1 - 9
Eastern Sambo Offshore	273	24 29.575	-81 39.423	Mar. 95 - July 97	1 - 9
Boca Chica Channel	274	24 32.500	-81 45.000	Mar. 95 - July 97	1 - 9
Boca Chica Mid	275	24 31.286	-81 44.653	Mar. 95 - July 97	1 - 9
Boca Chica Offshore	276	24 28.523	-81 44.245	Mar. 95 - July 97	1 - 9
Key West Cut A	277	24 31.057	-81 49.266	Mar. 95 - July 97	1 - 9
Western Head	278	24 29.917	-81 49.137	Mar. 95 - July 97	1 - 9
Main Ship Channel	279	24 27.482	-81 48.778	Mar. 95 - July 97	1 - 9
Eastern Dry Rocks	280	24 27.218	-81 50.619	Mar. 95 - July 97	1 - 9
Middle Ground	281	24 29.700	-81 53.500	Mar. 95 - July 97	1 - 9
Arsenic Bank	282	24 52.000	-80 53.100	Mar. 95 - July 97	1 - 9
	283	24 54.000	-81 00.000	Mar. 95 - July 97	1 - 9
Tripod Bank	284	24 52.600	-80 57.500	Mar. 95 - July 97	1 - 9

Station Name	Station #	Latitude	Longitude	Period of Record	Surveys
Channel Key Pass	285	24 48.599	-80 55.217	Mar. 95 - July 97	1 - 9
Toms Harbor Cut	286	24 47.000	-80 55.437	Mar. 95 - July 97	1 - 9
Bamboo Banks	287	24 50.800	-81 00.500	Mar. 95 - July 97	1 - 9
	288	24 53.000	-81 05.000	Mar. 95 - July 97	1 - 9
Bamboo Key	289	24 46.665	-81 01.980	Mar. 95 - July 97	1 - 9
Bluefish Bank	290	24 51.760	-81 12.974	Mar. 95 - July 97	1 - 9
Bullard Bank	291	24 49.009	-81 08.807	Mar. 95 - July 97	1 - 9
John Sawyer Bank	292	24 45.787	-81 06.749	Mar. 95 - July 97	1 - 9
Bethel Bank	293	24 44.252	-81 06.558	Mar. 95 - July 97	1 - 9
Red Bay Bank	294	24 45.330	-81 10.331	Mar. 95 - July 97	1 - 9
Bullfrog Banks	295	24 51.098	-81 21.074	Mar. 95 - July 97	1 - 9
W. Bahia Honda Key	296	24 47.491	-81 17.345	Mar. 95 - July 97	1 - 9
Cocoanut Key	297	24 44.446	-81 14.000	Mar. 95 - July 97	1 - 9
Harbor Key Bank	298	24 50.451	-81 25.867	Mar. 95 - July 97	1 - 9
Bogie Channel	299	24 41.242	-81 20.509	Mar. 95 - July 97	1 - 9
Little Pine Key	300	24 42.529	-81 18.554	Mar. 95 - July 97	1 - 9
Cutoe Key	301	24 46.355	-81 23.799	Mar. 95 - July 97	1 - 9
Content Passage	302	24 48.077	-81 28.936	Mar. 95 - July 97	1 - 9
Pine Channel	303	24 41.545	-81 23.519	Mar. 95 - July 97	1 - 9
Toptree Hammock Chan.	304	24 42.732	-81 27.094	Mar. 95 - July 97	1 - 9
Cudjoe Key	305	24 46.111	-81 33.300	Mar. 95 - July 97	1 - 9
Johnson Key Channel	306	24 44.262	-81 35.548	Mar. 95 - July 97	1 - 9
Tarpon Belly Keys	307	24 43.502	-81 31.231	Mar. 95 - July 97	1 - 9
Kemp Channel	308	24 41.658	-81 29.292	Mar. 95 - July 97	1 - 9
Snipe Point	309	24 41.863	-81 40.991	Mar. 95 - July 97	1 - 9
Snipe Keys	310	24 39.451	-81 37.959	Mar. 95 - July 97	1 - 9
Shark Key	311	24 37.057	-81 39.005	Mar. 95 - July 97	1 - 9
E. Harbor Key Channel	312	24 39.587	-81 45.806	Mar. 95 - July 97	1 - 9
Lower Harbor Keys	313	24 38.494	-81 43.926	Mar. 95 - July 97	1 - 9
Howe Key Channel	314	24 45.026	-81 26.147	Mar. 95 - July 97	1 - 9
Calda Channel	315	24 37.995	-81 49.696	Mar. 95 - July 97	1 - 9
Man of War Harbor	316	24 35.146	-81 48.144	Mar. 95 - July 97	1 - 9
Garrison Blight	317	24 34.500	-81 47.300	Mar. 95 - July 97	1 - 9
KY Northwest Channel	318	24 39.050	-81 54.280	Mar. 95 - July 97	1 - 9
N Boca Grande Channel	319	24 37.740	-82 04.280	Mar. 95 - July 97	1 - 9
Loggerhead Marker	320	24 39.100	-82 58.000	Mar. 95 - July 97	1 - 9
Loggerhead Channel	321	24 38.500	-82 56.400	Mar. 95 - July 97	1 - 9
Satan Shoal	322	24 27.500	-81 58.900	Mar. 95 - July 97	1 - 9
	323	24 42.300	-82 10.200	Mar. 95 - July 97	1 - 9
Ellis Rock	324	24 39.200	-82 09.500	Mar. 95 - July 97	1 - 9
SE Marquesas	325	24 32.500	-82 06.000	Mar. 95 - July 97	1 - 9
	326	24 42.500	-82 15.000	Mar. 95 - July 97	1 - 9
N Quicksands	327	24 37.000	-82 13.400	Mar. 95 - July 97	1 - 9

Station Name	Station #	Latitude	Longitude	Period of Record	Surveys
Marquesas Rock	328	24 27.240	-82 13.440	Mar. 95 - July 97	1 - 9
	329	24 43.000	-82 32.500	Mar. 95 - July 97	1 - 9
New Ground	330	24 39.920	-82 22.440	Mar. 95 - July 97	1 - 9
	331	24 30.410	-82 17.260	Mar. 95 - July 97	1 - 9
S Quicksands	332	24 32.130	-82 22.040	Mar. 95 - July 97	1 - 9
Half Moon Shoal	333	24 34.630	-82 29.480	Mar. 95 - July 97	1 - 9
	334	24 30.730	-82 27.020	Mar. 95 - July 97	1 - 9
	335	24 27.650	-82 22.990	Mar. 95 - July 97	1 - 9
	336	24 39.290	-82 38.780	Mar. 95 - July 97	1 - 9
Rebecca Shoal	337	24 35.480	-82 35.270	Mar. 95 - July 97	1 - 9
Garden Key	338	24 38.208	-82 52.620	Mar. 95 - July 97	1 - 9
	339	24 25.700	-82 30.650	Mar. 95 - July 97	1 - 9
	340	24 29.100	-82 39.200	Mar. 95 - July 97	1 - 9
Northwest Channel	341	24 41.900	-82 53.000	Mar. 95 - July 97	1 - 9
NE DTNP	342	24 42.360	-82 44.740	Mar. 95 - July 97	1 - 9
N DTNP	343	24 45.300	-82 51.300	Mar. 95 - July 97	1 - 9
Southwest Channel	344	24 33.800	-82 48.300	Mar. 95 - July 97	1 - 9
	345	24 22.740	-82 42.280	Mar. 95 - July 97	1 - 9
W DTNP	346	24 40.000	-83 00.500	Mar. 95 - July 97	1 - 9
Loggerhead Offshore	347	24 39.240	-82 59.800	Mar. 95 - July 97	1 - 9
Hospital Key	348	24 38.500	-82 51.300	Mar. 95 - July 97	1 - 9
Loggerhead Inshore	349	24 38.277	-82 55.868	Mar. 95 - July 97	1 - 9
	350	24 27.000	-82 52.000	Mar. 95 - July 97	1 - 9

Table 2: Summary Statistics for Surveys #6-9.

	Seg.	Surface					Bottom				
		<i>n</i>	Min.	Max.	Median	MAD	<i>n</i>	Min.	Max.	Median	MAD
NO _x	1	59	0.01	0.80	0.09	0.07	59	0.01	2.79	0.16	0.10
	2	76	0.00	0.55	0.10	0.06	76	0.00	0.40	0.09	0.05
	4	92	0.03	4.57	0.26	0.19					
	5	114	0.01	1.38	0.18	0.13	89	0.01	1.19	0.18	0.11
	6	60	0.01	1.01	0.17	0.11					
	7	68	0.00	1.33	0.15	0.12	50	0.00	1.30	0.09	0.07
	9	124	0.01	1.82	0.10	0.06	83	0.00	0.70	0.10	0.06
NO ₃	1	59	0.00	0.71	0.06	0.06	59	0.00	2.66	0.13	0.10
	2	76	0.00	0.50	0.07	0.06	76	0.00	0.36	0.07	0.07
	4	92	0.00	4.42	0.19	0.15					
	5	114	0.00	1.27	0.13	0.12	89	0.00	1.10	0.13	0.10
	6	60	0.00	0.87	0.10	0.08					
	7	68	0.00	1.19	0.11	0.11	50	0.00	1.17	0.05	0.05
	9	124	0.00	1.66	0.06	0.06	83	0.00	0.63	0.06	0.06
NO ₂	1	60	0.00	0.12	0.03	0.01	60	0.01	0.13	0.04	0.02
	2	76	0.00	0.13	0.03	0.02	76	0.00	0.10	0.03	0.01
	4	92	0.02	0.31	0.07	0.03					
	5	119	0.01	0.12	0.05	0.02	93	0.00	0.12	0.05	0.01
	6	60	0.01	0.24	0.06	0.03					
	7	72	0.00	0.22	0.04	0.02	53	0.00	0.34	0.03	0.01
	9	124	0.00	0.16	0.04	0.01	83	0.00	0.13	0.04	0.01
NH ₄	1	60	0.02	0.64	0.24	0.13	60	0.01	0.97	0.27	0.09
	2	75	0.03	0.97	0.32	0.14	76	0.04	0.70	0.27	0.09
	4	92	0.13	2.07	0.49	0.22					
	5	119	0.05	0.63	0.28	0.08	93	0.04	0.73	0.28	0.08
	6	60	0.08	1.01	0.30	0.09					
	7	72	0.06	2.44	0.29	0.13	53	0.07	0.72	0.25	0.10
	9	124	0.04	1.49	0.25	0.08	83	0.02	0.74	0.24	0.08
TN	1	60	5.47	24.79	8.67	1.49	60	6.08	19.49	7.87	0.99
	2	76	5.21	25.92	10.85	2.68	76	5.74	16.10	9.92	1.73
	4	92	9.46	30.38	17.70	2.71					
	5	119	5.17	24.51	11.42	2.15	93	5.43	21.86	10.84	2.04
	6	60	12.12	32.63	16.99	2.11					
	7	72	6.63	46.35	11.94	2.33	53	6.96	20.54	10.41	1.75
	9	124	5.72	27.13	9.69	1.93	82	5.42	28.62	9.06	1.58

	Seg.	Surface					Bottom				
		<i>n</i>	Min.	Max.	Median	MAD	<i>n</i>	Min.	Max.	Median	MAD
TIN	1	59	0.03	1.18	0.41	0.17	59	0.09	2.94	0.46	0.15
	2	75	0.06	1.09	0.45	0.17	76	0.06	0.84	0.37	0.11
	4	92	0.20	5.82	0.82	0.42					
	5	114	0.11	1.98	0.46	0.18	89	0.11	1.55	0.47	0.19
	6	60	0.16	1.79	0.50	0.19					
	7	68	0.06	3.67	0.48	0.25	50	0.08	1.79	0.38	0.19
	9	124	0.07	3.30	0.40	0.14	83	0.04	1.13	0.38	0.11
TON	1	59	5.28	24.12	8.24	1.38	59	4.51	18.83	7.28	1.00
	2	75	4.86	24.93	10.51	2.59	76	5.31	15.31	9.57	1.66
	4	92	8.63	27.66	16.80	2.49					
	5	114	4.48	24.10	10.64	2.02	89	5.09	21.08	10.37	1.74
	6	60	11.66	32.10	16.35	1.99					
	7	68	6.24	42.68	11.50	2.44	50	6.68	19.56	10.14	1.70
	9	124	5.01	24.85	9.26	1.84	82	5.08	28.20	8.63	1.62
TP	1	60	0.14	0.25	0.17	0.02	60	0.12	0.27	0.19	0.03
	2	76	0.12	0.34	0.18	0.03	76	0.12	0.29	0.19	0.03
	4	92	0.14	0.40	0.22	0.02					
	5	119	0.11	0.45	0.18	0.02	91	0.11	0.24	0.18	0.02
	6	60	0.14	0.37	0.20	0.03					
	7	72	0.10	0.28	0.17	0.02	53	0.10	0.25	0.17	0.02
	9	122	0.09	0.23	0.15	0.02	82	0.10	0.29	0.16	0.02
SRP	1	57	0.00	0.05	0.01	0.01	58	0.00	0.15	0.01	0.01
	2	76	0.00	0.09	0.01	0.01	76	0.00	0.07	0.00	0.00
	4	92	0.00	0.11	0.01	0.01					
	5	119	0.00	0.05	0.01	0.01	93	0.00	0.09	0.01	0.01
	6	60	0.00	0.05	0.01	0.01					
	7	72	0.00	0.03	0.01	0.00	53	0.00	0.05	0.01	0.01
	9	124	0.00	0.12	0.01	0.01	83	0.00	0.09	0.01	0.01
APA	1	60	0.01	0.20	0.04	0.01	60	0.01	0.08	0.03	0.01
	2	76	0.01	0.84	0.04	0.02	76	0.01	0.24	0.05	0.02
	4	91	0.01	0.26	0.07	0.03					
	5	116	0.02	0.11	0.06	0.02	90	0.02	0.12	0.05	0.02
	6	60	0.03	0.24	0.08	0.04					
	7	63	0.02	0.25	0.05	0.02	45	0.02	0.16	0.05	0.02
	9	102	0.02	0.19	0.06	0.02	68	0.02	0.17	0.05	0.02

	Seg.	Surface					Bottom				
		<i>n</i>	Min.	Max.	Median	MAD	<i>n</i>	Min.	Max.	Median	MAD
Chl a	1	60	0.08	0.78	0.28	0.10					
	2	76	0.09	1.34	0.41	0.15					
	4	92	0.10	0.76	0.25	0.06					
	5	119	0.06	1.03	0.32	0.10					
	6	59	0.10	1.76	0.28	0.08					
	7	72	0.01	0.65	0.27	0.10					
	9	124	0.09	0.70	0.21	0.05					
TOC	1	59	143.56	294.23	198.19	25.77	59	150.33	308.25	195.73	26.00
	2	75	174.67	303.46	242.35	14.93	76	166.23	301.35	237.84	15.60
	4	92	199.17	1435.42	266.26	24.49					
	5	115	171.60	352.25	241.33	28.65	91	166.38	332.90	234.00	23.87
	6	60	209.02	449.38	318.85	38.25					
	7	71	145.21	726.37	230.38	32.05	52	154.85	367.25	224.37	26.78
	9	124	177.83	512.48	244.25	26.87	82	178.46	460.21	241.92	33.45
SiO ₄	1	59	0.00	1.12	0.36	0.27	59	0.01	5.65	0.56	0.31
	2	76	0.00	4.99	0.69	0.53	76	0.00	6.92	0.80	0.72
	4	89	0.00	11.27	2.44	1.00					
	5	119	0.01	5.66	1.63	0.91	91	0.00	5.84	1.74	1.02
	6	60	0.91	127.11	5.03	2.36					
	7	72	0.00	37.36	1.37	0.98	53	0.01	12.83	0.73	0.49
	9	124	0.00	12.99	0.42	0.34	82	0.00	11.36	0.48	0.26
Turbidity	1	60	0.01	3.00	0.29	0.17	60	0.01	1.55	0.37	0.19
	2	76	0.01	3.50	0.70	0.22	76	0.01	4.93	0.79	0.34
	4	91	0.20	11.35	0.80	0.32					
	5	119	0.01	1.95	0.51	0.28	93	0.01	2.61	0.58	0.31
	6	59	0.25	3.60	0.83	0.32					
	7	72	0.01	3.35	0.38	0.29	53	0.01	2.95	0.27	0.22
	9	124	0.01	3.00	0.37	0.18	83	0.01	3.30	0.27	0.16
Salinity	1	60	35.70	36.60	36.30	0.10	60	35.90	36.70	36.35	0.05
	2	75	35.60	37.00	36.40	0.20	74	35.70	37.40	36.40	0.15
	4	92	30.50	38.50	36.80	0.30	91	33.50	38.40	36.80	0.30
	5	116	34.30	38.60	36.60	0.30	114	35.90	38.60	36.70	0.40
	6	60	35.20	40.30	36.80	0.70	59	35.30	39.70	36.80	0.70
	7	71	35.30	38.40	36.40	0.30	72	35.70	38.90	36.40	0.30
	9	123	35.00	37.80	36.20	0.10	124	35.00	37.80	36.30	0.20

	Seg.	Surface					Bottom				
		<i>n</i>	Min.	Max.	Median	MAD	<i>n</i>	Min.	Max.	Median	MAD
Temp.	1	60	23.80	30.70	26.80	1.85	60	18.20	30.60	25.05	1.55
	2	75	22.80	32.30	27.60	2.50	74	22.40	32.20	26.25	2.25
	4	92	22.40	36.10	29.00	1.85	91	22.40	32.50	28.70	2.10
	5	117	23.40	33.40	28.20	2.60	114	23.40	33.40	26.70	2.60
	6	60	23.40	32.30	28.75	1.75	59	23.40	32.40	28.70	2.50
	7	71	23.70	39.60	28.10	2.90	72	23.50	32.90	26.10	2.45
	9	123	21.10	32.00	27.20	2.80	124	21.10	32.10	27.00	2.90
DO	1	60	4.60	6.80	5.80	0.30	60	4.90	6.70	6.00	0.40
	2	74	4.60	6.70	6.10	0.30	74	4.80	6.90	6.15	0.25
	4	92	4.00	8.80	6.25	0.80	91	4.00	8.30	6.30	0.80
	5	115	3.00	8.30	5.80	0.30	114	3.00	8.40	5.80	0.40
	6	60	4.80	8.70	6.30	0.65	59	4.80	8.70	6.50	0.80
	7	71	5.10	8.20	5.90	0.30	72	5.30	8.40	6.10	0.40
	9	122	5.40	7.90	6.00	0.30	123	5.40	7.90	6.10	0.30
K_d	1	60	0.04	0.57	0.13	0.05					
	2	74	0.03	0.46	0.16	0.05					
	4	83	0.09	1.62	0.44	0.20					
	5	108	0.02	0.84	0.18	0.07					
	6	37	0.02	1.03	0.41	0.09					
	7	66	0.03	0.81	0.18	0.09					
	9	99	0.02	1.12	0.24	0.11					
TN:TP	1	60	27.52	127.13	50.15	9.12					
	2	76	33.43	116.51	55.71	9.45					
	4	92	39.42	199.27	75.52	11.85					
	5	119	26.20	160.73	63.56	11.30					
	6	60	44.70	161.27	85.45	17.96					
	7	72	35.35	264.88	71.79	15.40					
	9	122	29.12	168.78	63.89	13.23					
DO _{sat}	1	60	69.65	99.63	87.48	4.55	60	65.81	97.97	90.86	4.45
	2	74	69.88	102.53	90.90	3.33	74	74.91	105.67	91.73	3.01
	4	92	62.17	138.54	92.46	11.14	91	62.12	121.40	92.53	10.96
	5	115	46.94	124.59	88.07	4.06	114	46.94	126.10	88.15	5.40
	6	60	72.15	126.72	94.91	10.21	59	72.15	126.72	97.68	9.83
	7	71	73.38	124.39	91.06	4.91	72	77.95	127.42	93.49	5.87
	9	122	80.81	116.44	89.75	5.29	123	80.76	116.44	90.79	6.02

Appendices

SURV	DATE	STA	LATDEC	LONDEC	NOX-S	NOX-B	NO3-S	NO3-B	NO2-S	NO2-B	NH4-S	NH4-B	TN-S	TN-B	TIN-S	TIN-B
6	12/17/96	200	25.59000	-80.10000	0.03	0.04	0.00	0.00	0.03	0.04	0.28	0.18	12.15	13.37	0.30	0.22
6	12/18/96	201	25.51000	-80.16500	0.02	0.01	0.00	0.00	0.02	0.01	0.14	0.32	14.23	13.07	0.16	0.32
6	12/18/96	202	25.49380	-80.15010	0.06	0.05	0.02	0.00	0.04	0.05	0.26	0.24	9.07	9.27	0.32	0.28
6	12/17/96	203	25.48053	-80.11768	0.10		0.07		0.03		0.30		8.77		0.40	
6	12/18/96	204	25.43082	-80.19553	0.04	0.06	0.01	0.01	0.03	0.04	0.23	0.35	9.59	9.23	0.27	0.40
6	12/18/96	205	25.42798	-80.18200	0.04	0.02	0.00	0.00	0.04	0.02	0.27	0.14	10.27	9.38	0.31	0.16
6	12/17/96	206	25.41497	-80.14300	0.02	0.01	0.01	0.00	0.01	0.01	0.22	0.34	7.16	8.16	0.24	0.35
6	12/18/96	207	25.36443	-80.21508	0.11		0.07		0.03		0.27		8.14		0.38	
6	12/18/96	208	25.35918	-80.20052	0.06	0.08	0.04	0.06	0.02	0.03	0.17	0.31	18.40	15.24	0.23	0.39
6	10/2/96	209	24.58570	-81.72272	0.83		0.77		0.06		0.56		15.17		1.39	
6	12/17/96	210	25.32500	-80.16360	0.15	0.12	0.09	0.09	0.06	0.04	0.27	0.24	15.33	14.11	0.42	0.36
6	12/18/96	211	25.30788	-80.26165	0.09	0.08	0.04	0.03	0.06	0.04	0.26	0.26	17.44	16.33	0.35	0.34
6	12/18/96	212	25.29452	-80.24542	0.04	0.02	0.00	0.00	0.04	0.02	0.32	0.17	14.44	12.26	0.35	0.20
6	12/17/96	213	25.26312	-80.18773	0.10	0.16	0.07	0.14	0.03	0.02	0.22	0.24	8.65	7.35	0.32	0.39
6	12/18/96	214	25.24620	-80.29918	0.03		0.00		0.03		0.24		9.47		0.27	
6	12/18/96	215	25.23667	-80.28897	0.05		0.00		0.05		0.31		12.05		0.36	
6	12/17/96	216	25.20450	-80.24425	0.11		0.06		0.05		0.24		9.71		0.35	
6	12/17/96	217	25.17332	-80.33985	0.10		0.06		0.03		0.31		9.67		0.40	
6	12/17/96	218	25.15897	-80.29455	0.21		0.20		0.02		0.62		9.42		0.83	
6	12/17/96	219	25.12587	-80.26477	0.02	0.03	0.00	0.00	0.02	0.03	0.33	0.59	9.31	7.52	0.35	0.62
6	12/17/96	220	25.11355	-80.37342	0.05	0.05	0.02	0.01	0.03	0.04	0.33	0.30	9.54	9.40	0.37	0.35
6	12/17/96	221	25.11025	-80.36088	0.07	0.04	0.02	0.00	0.05	0.04	0.49	0.74	8.28	7.15	0.55	0.78
6	12/17/96	222	25.07237	-80.31277	0.15	0.11	0.08	0.06	0.07	0.05	0.52	0.61	10.58	10.26	0.66	0.72
6	12/17/96	223	25.06018	-80.42312	0.08		0.06		0.02		0.53		6.51		0.61	
6	12/17/96	224	25.03082	-80.39527	0.04		0.01		0.03		0.67		6.45		0.70	
6	12/17/96	225	25.00667	-80.37000	0.14	0.10	0.11	0.07	0.03	0.03	0.74	0.36	6.24	6.26	0.88	0.47
6	12/7/96	226	25.00840	-80.50148	0.16		0.11		0.06		0.42		11.91		0.58	
6	12/7/96	227	25.00167	-80.47490	0.02	0.04	0.00	0.00	0.02	0.04	0.16	0.32	11.60	9.08	0.18	0.36
6	12/7/96	228	24.97667	-80.45000	0.08	0.08	0.00	0.04	0.08	0.04	0.43	0.26	8.49	10.68	0.51	0.34
6	12/7/96	229	24.95012	-80.56218	0.27		0.16		0.11		0.53		13.50		0.79	
6	12/7/96	230	24.93965	-80.55162	0.39	0.21	0.30	0.14	0.09	0.07	0.53	0.49	12.18	11.05	0.92	0.70
6	12/7/96	231	24.91750	-80.51533	0.07	0.13	0.04	0.08	0.03	0.05	0.25	0.33	8.93	12.03	0.32	0.46
6	12/7/96	232	24.92703	-80.59852	0.68		0.54		0.14		1.16		16.35		1.84	
6	12/7/96	233	24.90185	-80.58238	0.19	0.07	0.11	0.00	0.08	0.07	0.54	0.53	11.97	11.47	0.73	0.60
6	12/7/96	234	24.86277	-80.56697	0.18	1.24	0.14	0.90	0.04	0.34	0.41	0.56	10.18	12.63	0.59	1.79
6	12/7/96	235	24.87123	-80.66865	0.14		0.01		0.13		0.94		12.00		1.08	
6	12/7/96	236	24.85970	-80.66240	0.03	0.05	0.01	0.02	0.02	0.04	0.27	0.30	8.86	9.10	0.30	0.35
6	12/7/96	237	24.83265	-80.64907	0.05	0.08	0.00	0.05	0.05	0.03	0.43	0.42	9.91	10.55	0.48	0.50
6	12/7/96	238	24.83442	-80.74683	0.78		0.67		0.11		0.69		13.97		1.47	
6	12/7/96	239	24.80223	-80.71620	0.01	0.02	0.01	0.00	0.00	0.02	0.13	0.14	8.15	9.03	0.14	0.16
6	12/7/96	240	24.78453	-80.70570	0.13	0.03	0.10	0.00	0.03	0.03	0.27	0.15	13.23	12.21	0.40	0.19

SURV	DATE	STA	TON-S	TON-B	TP-S	TP-B	SRP-S	SRP-B	APA-S	APA-B	CHLA	TOC-S	TOC-B	SiO4-S	SiO4-B	TURB-S	TURB-B
6	12/17/96	200	11.85	13.15	0.12	0.15	0.01	0.02	0.02	0.02	0.36	182.00	189.71	0.15	0.22	0.15	0.31
6	12/18/96	201	14.08	12.75	0.16	0.18	0.01	0.02	0.06	0.05	0.27	189.06	206.65	0.00	0.45	2.05	1.68
6	12/18/96	202	8.75	8.99	0.17	0.15	0.03	0.01	0.06	0.06	0.28	200.46	206.31	0.00	0.30	0.80	0.70
6	12/17/96	203	8.37		0.16		0.02		0.02		0.42	216.31		0.15		0.49	
6	12/18/96	204	9.32	8.83	0.15	0.15	0.01	0.01	0.07	0.07	0.21	212.25	228.79	0.00	0.37	1.15	1.70
6	12/18/96	205	9.95	9.22	0.16	0.17	0.01	0.01	0.07	0.07	0.30	243.83	240.10	0.15	0.30	3.00	3.30
6	12/17/96	206	6.92	7.81	0.13	0.12	0.02	0.01	0.02	0.02	0.35	227.00	236.92	0.22	0.00	0.24	0.15
6	12/18/96	207	7.76		0.13		0.00		0.09		0.20	259.63		0.30		2.60	
6	12/18/96	208	18.16	14.85	0.13	0.12	0.01	0.03	0.07	0.07	0.25	236.71	235.42	0.30	0.30	2.05	1.50
6	10/2/96	209	13.79		0.16		0.02		0.06		0.21	262.35		0.44			
6	12/17/96	210	14.92	13.75	0.15	0.14	0.00	0.01	0.02	0.02	0.36	181.90	193.52	0.22	0.00	0.21	0.18
6	12/18/96	211	17.09	16.00	0.13	0.14	0.00	0.01	0.07	0.07	0.28	225.96	231.25	0.19	0.15	1.05	0.60
6	12/18/96	212	14.09	12.06	0.16	0.13	0.01	0.01	0.07	0.07	0.26	188.90	179.04	0.39	0.16	0.40	0.40
6	12/17/96	213	8.33	6.96	0.16	0.16	0.01	0.01	0.02	0.02	0.31	179.65	181.67	0.31	0.23	0.08	0.14
6	12/18/96	214	9.20		0.14		0.00		0.08		0.19	222.02		0.00		0.95	
6	12/18/96	215	11.69		0.15		0.00		0.07		0.25	212.77		0.50		0.50	
6	12/17/96	216	9.35				0.01		0.02		0.20	178.10		0.15		0.09	
6	12/17/96	217	9.27				0.02		0.04		0.20	230.21		0.00		0.51	
6	12/17/96	218	8.59		0.12		0.12		0.02		0.26	186.54		0.04		0.27	
6	12/17/96	219	8.96	6.90	0.12	0.14	0.01	0.02	0.02	0.02	0.19	192.33	198.06	0.15	0.31	0.09	0.22
6	12/17/96	220	9.16	9.05	0.10	0.11	0.00	0.01	0.04	0.04	0.25	214.92	213.46	0.31	0.23	0.86	1.09
6	12/17/96	221	7.73	6.38	0.12	0.13	0.00	0.05	0.04	0.04	0.23	204.29	201.98	1.22	1.15	0.81	0.95
6	12/17/96	222	9.92	9.55	0.14	0.12	0.02	0.09	0.02	0.02	0.26	193.40	192.48	0.23	0.92	0.08	0.15
6	12/17/96	223	5.89		0.12		0.03		0.05		0.27	207.42		0.77		0.83	
6	12/17/96	224	5.75		0.11		0.11		0.02		0.13	197.15		0.31		0.10	
6	12/17/96	225	5.36	5.79	0.14	0.16	0.12	0.02	0.02	0.02	0.11	202.60	187.81	0.54	1.57	0.22	0.17
6	12/7/96	226	11.33		0.09		0.01		0.06		0.38	222.96		1.32		0.30	
6	12/7/96	227	11.42	8.72	0.11	0.20	0.00	0.00	0.04	0.05	0.54	184.52	191.71	0.59	0.73	0.21	0.04
6	12/7/96	228	7.98	10.34	0.19	0.17	0.01	0.00	0.03	0.03	0.58	177.83	216.52	0.38	0.44	0.12	0.06
6	12/7/96	229	12.71		0.18		0.01		0.05		0.32	258.10		0.55		0.67	
6	12/7/96	230	11.26	10.35	0.18	0.17	0.01	0.02	0.05	0.05	0.43	238.38	223.81	1.02	0.88	0.43	0.74
6	12/7/96	231	8.61	11.57	0.18	0.17	0.03	0.01	0.03	0.04	0.57	204.46	203.58	0.29	0.59	0.07	0.09
6	12/7/96	232	14.51		0.17		0.01		0.07		0.34	256.83		2.19		2.15	
6	12/7/96	233	11.24	10.88	0.17	0.14	0.00	0.01	0.05	0.05	0.60	203.10	204.52	1.10	0.84	0.59	0.66
6	12/7/96	234	9.59	10.84	0.17	0.25	0.00	0.05	0.03	0.03	0.45	185.54	197.71	0.62	1.46	0.08	0.32
6	12/7/96	235	10.92		0.20		0.01		0.06		0.41	200.71		0.88		0.55	
6	12/7/96	236	8.56	8.75	0.15	0.18	0.01	0.01	0.03	0.04	0.44	187.33		0.33	0.44	0.24	0.27
6	12/7/96	237	9.43	10.05	0.17	0.17	0.02	0.02	0.03	0.03	0.49	192.10	189.27	1.83	0.66	0.07	0.19
6	12/7/96	238	12.51		0.17		0.01		0.05		0.32	208.08		1.68		0.47	
6	12/7/96	239	8.01	8.88	0.20	0.18	0.01	0.00	0.04	0.04	0.44	185.65	184.21	0.80	0.73	0.11	0.07
6	12/7/96	240	12.83	12.03	0.15	0.12	0.02	0.00			0.59	145.21	154.85	0.48	0.48	0.45	0.02

SURV	DATE	STA	SAL-S	SAL-B	TEMP-S	TEMP-B	DO-S	DO-B	Kd	TN:TP	%SAT_S	%SAT_B
6	12/17/96	200	36.20	36.20	24.80	24.30	5.90	6.10	0.021	103.45	86.45	88.89
6	12/18/96	201	36.30	36.30	22.50	22.50	6.00	6.10	0.200	87.59	85.65	87.07
6	12/18/96	202	36.30	36.30	22.60	22.60	6.20	6.10	0.224	54.97	88.61	87.18
6	12/17/96	203	36.30	36.30	24.60	24.40	6.00	6.00	0.046	55.70	87.78	87.59
6	12/18/96	204	36.40	36.40	21.80	21.70	5.90	6.00	0.320	66.13	83.52	84.83
6	12/18/96	205	36.40	36.40	22.00	22.00	5.90	5.90	0.410	65.18	83.74	83.74
6	12/17/96	206	36.20	36.30	24.70	24.00	5.90	6.50	0.058	54.06	86.35	94.46
6	12/18/96	207	36.30	36.30	21.20	21.20	6.00	6.00	0.780	63.82	84.21	84.21
6	12/18/96	208	36.40	36.40	22.10	22.10	5.90	5.90	0.289	141.51	83.85	83.85
6	10/2/96	209	36.50	36.50	28.10	28.10	5.60	5.60	0.341	96.34	84.84	84.84
6	12/17/96	210	36.30	36.30	24.60	23.70	5.70	6.00	0.058	105.74	83.39	86.89
6	12/18/96	211	35.70	35.90	21.40	21.50	6.00	6.00	0.252	131.64	84.10	84.33
6	12/18/96	212	36.40	36.40	21.90	21.90	5.90	5.90	0.263	91.71	83.63	83.63
6	12/17/96	213	36.20	36.20	24.60	24.10	5.80	5.90	0.088	55.84	84.80	85.78
6	12/18/96	214	35.40	35.30	21.10	21.10	5.80	5.80	0.340	70.17	80.81	80.76
6	12/18/96	215	35.60	35.70	21.20	21.20	6.00	6.00	0.351	81.69	83.82	83.88
6	12/17/96	216	36.20	36.30	24.60	23.50	5.60	5.90	0.082		81.87	85.25
6	12/17/96	217	35.90	36.00	21.40	21.40	7.40	6.20	0.585		103.87	87.08
6	12/17/96	218	36.30	36.50	23.10	22.00	5.70	6.20	0.075	81.89	81.97	88.06
6	12/17/96	219	36.20	36.30	24.80	24.20	5.70	5.80	0.063	79.20	83.52	84.48
6	12/17/96	220	36.50	36.50	21.30	21.30	6.10	6.20	0.300	100.38	85.84	87.25
6	12/17/96	221	36.50	36.50	21.60	21.60	5.90	6.00	0.271	69.04	83.36	84.77
6	12/17/96	222	36.20	36.30	24.70	24.30	5.60	5.70	0.112	74.23	81.96	83.11
6	12/17/96	223	36.60	36.60	21.40	21.40	5.90	5.90	0.217	55.37	83.19	83.19
6	12/17/96	224	36.20	36.20	24.50	24.50	5.60	5.60	0.091	58.65	81.78	81.78
6	12/17/96	225	36.20	36.30	24.80	24.30	5.70	5.60	0.088	46.21	83.52	81.66
6	12/7/96	226	35.70	35.70	24.40	24.40	6.00	6.00	0.479	132.29	87.25	87.25
6	12/7/96	227	36.30	36.30	24.80	24.60	5.80	6.00	0.242	103.08	85.04	87.78
6	12/7/96	228	36.30	36.30	25.40	25.40	5.60	5.80	0.109	45.28	82.63	85.58
6	12/7/96	229	35.50	35.50	23.90	23.90	6.40	6.50	0.416	77.17	92.42	93.86
6	12/7/96	230	35.70	36.00	23.80	24.00	5.80	5.70	0.272	68.90	82.67	82.67
6	12/7/96	231	36.20	36.30	25.30	25.20	5.60	5.60	0.110	50.31	82.49	82.45
6	12/7/96	232	35.30	35.70	23.70	23.70	5.10	5.60	0.542	96.20	73.38	80.78
6	12/7/96	233	36.10	36.10	24.10	24.10	5.60	5.60	0.225	72.57	81.37	81.37
6	12/7/96	234	36.30	36.40	25.30	23.60	5.70	5.40	0.086	59.88	84.01	78.16
6	12/7/96	235	36.20	36.20	24.60	24.60	5.70	5.70	0.208	61.52	83.34	83.34
6	12/7/96	236	36.30	36.30	24.90	24.90	5.80	5.70	0.138	58.08	85.13	83.66
6	12/7/96	237	36.30	36.30	25.20	25.20	5.60	5.50	0.089	59.15	82.45	80.98
6	12/7/96	238	36.10	36.10	24.00	24.00	5.60	5.60	0.381	83.42	81.27	81.27
6	12/7/96	239	36.30	36.30	24.90	24.90	5.80	5.90	0.100	40.25	85.13	86.60
6	12/7/96	240	36.30	36.30	25.20	25.10	5.60	5.60	0.105	88.21	82.45	82.37

SURV	DATE	STA	LATDEC	LONDEC	NOX-S	NOX-B	NO3-S	NO3-B	NO2-S	NO2-B	NH4-S	NH4-B	TN-S	TN-B	TIN-S	TIN-B
6	12/6/96	241	24.80247	-80.80890	0.31		0.20		0.11		0.63		16.74		0.94	
6	12/6/96	242	24.79150	-80.81225	1.33	1.30	1.19	1.17	0.13	0.13	0.42	0.43	16.45	14.87	1.74	1.73
6	12/6/96	243	24.72935	-80.79348	0.04	0.20	0.00	0.13	0.04	0.08	0.35	0.43	9.49	9.02	0.39	0.63
6	12/6/96	244	24.79333	-80.86333	0.82	0.74	0.69	0.66	0.13	0.08	1.19	0.72	17.30	17.40	2.01	1.46
6	12/6/96	245	24.76167	-80.86167	1.12	1.05	1.03	0.96	0.09	0.09	0.44	0.34	13.74	14.10	1.56	1.39
6	12/6/96	246	24.71317	-80.85813	0.11	0.06	0.07	0.05	0.04	0.01	0.23	0.13	10.13	10.41	0.33	0.19
6	12/6/96	247	24.71318	-81.01115	0.38		0.31		0.07		0.38		13.28		0.76	
6	12/6/96	248	24.68392	-80.98310	0.03	0.05	0.01	0.01	0.02	0.04	0.26	0.35	11.69	11.98	0.29	0.40
6	12/6/96	249	24.66560	-80.97762	0.25	0.25	0.18	0.20	0.07	0.05	0.39	0.40	8.91	9.45	0.64	0.65
6	12/5/96	250	24.69193	-81.18245	0.52		0.42		0.10		0.56		17.16		1.08	
6	12/5/96	251	24.64502	-81.16508	0.37	0.35	0.30	0.26	0.08	0.09	0.44	0.40	13.30	13.08	0.81	0.75
6	12/5/96	252	24.60693	-81.15442	0.03	0.06	0.01	0.02	0.02	0.04	0.19	0.27	10.23	11.76	0.22	0.33
6	12/5/96	253	24.64537	-81.30723	0.43		0.35		0.07		0.33		11.84		0.76	
6	12/5/96	254	24.65792	-81.26502	0.40		0.33		0.08		0.36		21.82		0.76	
6	12/5/96	255	24.62168	-81.24308	0.02	0.06	0.00	0.02	0.02	0.04	0.16	0.20	10.08	10.84	0.17	0.25
6	12/6/96	256	24.58497	-81.23408	0.06	0.51	0.02	0.48	0.05	0.03	0.23	0.28	13.42	12.82	0.29	0.79
6	12/5/96	257	24.63333	-81.33732	0.50		0.41		0.09		0.36		18.63		0.86	
6	12/5/96	258	24.59323	-81.32422	0.05	0.07	0.03	0.03	0.02	0.04	0.15	0.21	9.24	10.04	0.20	0.28
6	12/6/96	259	24.57037	-81.32167	0.06	0.11	0.04	0.06	0.03	0.05	0.23	0.37	9.27	8.80	0.29	0.48
6	12/4/96	260	24.62550	-81.41662	0.27		0.19		0.08		0.48		13.48		0.74	
6	12/4/96	261	24.58333	-81.50000	0.04	0.08	0.00	0.03	0.04	0.05	0.24	0.36	10.37	10.65	0.28	0.44
6	12/4/96	262	24.58618	-81.41887	0.07	0.08	0.04	0.04	0.03	0.05	0.28	0.31	15.43	13.21	0.35	0.39
6	12/4/96	263	24.54843	-81.39742	0.04	0.02	0.00	0.00	0.04	0.02	0.28	0.17	11.98	9.85	0.31	0.19
6	12/7/96	264	24.94677	-80.45947	0.32	0.12	0.28	0.09	0.04	0.04	0.21	0.20	10.18	8.45	0.52	0.33
6	10/2/96	265	24.81667	-81.08333	0.05		0.02		0.02		0.21		18.38		0.25	
6	12/4/96	266	24.61105	-81.50527	0.43		0.36		0.07		0.53		14.82		0.97	
6	12/4/96	267	24.53008	-81.48730	0.02	0.04	0.00	0.00	0.02	0.04	0.33	0.38	8.06	7.24	0.35	0.42
6	12/4/96	268	24.58782	-81.57698	0.70		0.59		0.12		0.63		14.25		1.33	
6	12/4/96	269	24.55943	-81.55955	0.06	0.02	0.00	0.00	0.06	0.02	0.34	0.20	7.87	7.62	0.40	0.22
6	12/4/96	270	24.52162	-81.56432	0.13	0.27	0.09	0.22	0.04	0.04	0.26	0.41	6.64	9.66	0.38	0.68
6	12/4/96	271	24.55667	-81.66667	0.38	0.41	0.30	0.36	0.08	0.06	0.36	0.48	14.08	13.72	0.74	0.90
6	12/4/96	272	24.50548	-81.65433	0.32	0.27	0.27	0.23	0.05	0.05	0.33	0.62	13.50	13.23	0.65	0.89
6	12/4/96	273	24.49103	-81.65048	0.32	0.15	0.28	0.10	0.05	0.05	0.43	0.34	12.64	11.45	0.75	0.49
6	12/4/96	274	24.54167	-81.75000	0.43	0.63	0.36	0.54	0.07	0.10	0.23	0.37	11.90	11.82	0.66	1.00
6	12/4/96	275	24.52143	-81.74422	0.49	0.57	0.42	0.46	0.07	0.11	0.29	0.50	11.21	12.87	0.78	1.06
6	12/4/96	276	24.47538	-81.73742	0.21	0.13	0.15	0.09	0.05	0.04	0.29	0.25	7.90	10.02	0.49	0.38
6	12/4/96	277	24.51762	-81.82110	0.03	0.10	0.00	0.05	0.03	0.05	0.22	0.27	10.81	12.22	0.25	0.38
6	12/4/96	278	24.49862	-81.81895	0.04	0.36	0.02	0.31	0.03	0.05	0.35	0.62	8.21	6.36	0.39	0.98
6	12/4/96	279	24.45803	-81.81297	0.25	0.09	0.19	0.06	0.06	0.03	0.47	0.23	9.71	9.39	0.72	0.32
6	12/4/96	280	24.45363	-81.84365	0.17	0.15	0.11	0.10	0.06	0.05	0.38	0.38	7.64	7.18	0.55	0.52
6	11/20/96	281	24.49500	-81.89167	0.13	0.35	0.10	0.27	0.03	0.08	0.24	0.38	8.88	11.06	0.37	0.73

SURV	DATE	STA	TON-S	TON-B	TP-S	TP-B	SRP-S	SRP-B	APA-S	APA-B	CHLA	TOC-S	TOC-B	SIO4-S	SIO4-B	TURB-S	TURB-B
6	12/6/96	241	15.80		0.12		0.01				0.43	259.60		4.38		3.35	
6	12/6/96	242	14.70	13.15	0.10	0.10	0.02	0.01			0.65	243.75	227.31	2.13	2.17	0.60	0.80
6	12/6/96	243	9.10	8.39	0.10	0.15	0.00	0.00			0.54	198.94	191.29	0.64	0.64	0.60	0.70
6	12/6/96	244	15.29	15.94	0.17	0.15	0.01	0.02			0.27	262.73	258.71	1.85	1.69	1.80	2.25
6	12/6/96	245	12.18	12.71	0.15	0.15	0.00	0.01			0.39	229.08	208.48	2.41	2.33	0.65	0.55
6	12/6/96	246	9.80	10.23	0.18	0.18	0.01	0.02			0.51	178.71	175.19	0.88	0.72	1.10	0.38
6	12/6/96	247	12.52		0.15		0.01		0.03		0.47	220.75		1.45		2.80	
6	12/6/96	248	11.40	11.59	0.16	0.20	0.01	0.01			0.57	177.40	178.79	1.85	1.25	0.44	2.60
6	12/6/96	249	8.27	8.81	0.17	0.14	0.01	0.03			0.45	172.15	175.15	0.68	0.56	0.61	0.05
6	12/5/96	250	16.09		0.18		0.03		0.02		0.28	257.42		1.65		1.55	
6	12/5/96	251	12.49	12.33	0.15	0.15	0.04	0.01	0.02	0.05	0.66	225.75	216.04	1.37	1.37	0.70	0.50
6	12/5/96	252	10.01	11.43	0.18	0.15	0.03	0.01			0.52	176.71	167.54	1.01	0.72	0.10	0.04
6	12/5/96	253	11.08		0.13		0.01		0.02		0.31	236.08		0.94		0.60	
6	12/5/96	254	21.06		0.16		0.02		0.02		0.25	287.92		1.52		0.89	
6	12/5/96	255	9.91	10.59	0.16	0.15	0.02	0.01	0.03	0.03	0.51	222.31	225.58	1.52	1.16	0.85	0.66
6	12/6/96	256	13.13	12.04	0.15	0.16	0.00	0.08			0.47	180.77	175.27	0.72	1.27	0.10	1.24
6	12/5/96	257	17.77		0.20		0.02		0.03		0.32			0.72		1.95	
6	12/5/96	258	9.04	9.76	0.17	0.16	0.01	0.01	0.03	0.04	0.59		214.35	1.23	1.95	0.57	0.95
6	12/6/96	259	8.99	8.32	0.18	0.16	0.02	0.01			0.36	171.60	172.94	0.72	0.72	0.52	0.34
6	12/4/96	260	12.74		0.14		0.01		0.05		0.47	246.19		1.45		0.50	
6	12/4/96	261	10.09	10.22	0.15	0.15	0.01	0.00	0.06	0.05	0.57	205.33	208.52	1.63	1.38	0.85	1.00
6	12/4/96	262	15.08	12.83	0.19	0.19	0.00	0.01	0.04	0.08	0.57	199.73	201.38	1.45	1.74	1.05	1.40
6	12/4/96	263	11.66	9.67	0.15	0.15	0.01	0.01	0.03	0.03	0.50	207.10	195.92	0.80	0.65	0.75	0.45
6	12/7/96	264	9.66	8.13	0.20	0.16	0.03	0.01	0.03	0.03	0.55	188.48	218.08	0.58	0.80	0.29	0.12
6	10/2/96	265	18.13		0.27		0.02		0.13		1.76	328.40		55.38			
6	12/4/96	266	13.85		0.18		0.02		0.06		0.57			2.07		0.55	
6	12/4/96	267	7.71	6.82	0.17	0.19	0.03	0.03	0.02	0.03	0.54	205.40	228.40	0.91	0.87	0.60	0.61
6	12/4/96	268	12.93		0.16		0.01		0.05		0.62	265.92		2.39		1.52	
6	12/4/96	269	7.47	7.40	0.18	0.18	0.00	0.01	0.03	0.06	0.46	219.81		1.45	1.49	0.86	0.91
6	12/4/96	270	6.26	8.98	0.17	0.14	0.02	0.02	0.03	0.08	0.58	207.00	215.79	1.63	3.12	0.56	1.18
6	12/4/96	271	13.34	12.82	0.14	0.17	0.02	0.06	0.08	0.07	1.01	227.46	229.96	2.76	2.65	1.27	1.60
6	12/4/96	272	12.86	12.34	0.19	0.19	0.03	0.09	0.07	0.07	1.03	222.50	219.46	2.76	2.97	1.40	2.61
6	12/4/96	273	11.89	10.96	0.17	0.18	0.05	0.02	0.05	0.04	0.74	203.71	198.90	2.10	2.25	0.98	0.82
6	12/4/96	274	11.24	10.82	0.14	0.17	0.02	0.02	0.04	0.03	0.83	216.44	217.79	2.54	2.47	1.63	0.97
6	12/4/96	275	10.43	11.81	0.20	0.20	0.02	0.01	0.03	0.03	0.78	177.19	194.29	1.61	1.22	1.17	2.24
6	12/4/96	276	7.41	9.64	0.16	0.17	0.01	0.02	0.02	0.02	0.45			0.91	5.60	0.44	0.75
6	12/4/96	277	10.55	11.85	0.16	0.18	0.01	0.02	0.03	0.06	0.65	223.54	234.96	1.15	1.58	0.69	1.95
6	12/4/96	278	7.82	5.38	0.20	0.19	0.04	0.07	0.02	0.02	0.57	239.96	229.04	0.64	0.75	0.98	1.96
6	12/4/96	279	8.99	9.08	0.15	0.15	0.02	0.01	0.02	0.02	0.41	224.52	222.31	0.69	0.57	0.65	0.68
6	12/4/96	280	7.09	6.66	0.14	0.15	0.00	0.00	0.02	0.02	0.37	222.83	223.56	0.53	0.60	0.49	0.76
6	11/20/96	281	8.51	10.34	0.12	0.15	0.02	0.02	0.04	0.07	0.60	297.17	296.25	0.70	1.39	1.15	3.05

SURV	DATE	STA	SAL-S	SAL-B	TEMP-S	TEMP-B	DO-S	DO-B	Kd	TN:TP	%SAT_S	%SAT_B
6	12/6/96	241	36.20	36.00	23.90	23.90	5.70	6.10	0.470	139.48	82.69	88.37
6	12/6/96	242	36.10	36.10	23.70	23.50	6.00	6.00	0.108	168.67	86.78	86.58
6	12/6/96	243	36.30	36.30	25.40	25.40	5.70	5.70	0.814	94.89	84.10	84.10
6	12/6/96	244	35.70	35.80	24.00	24.00	5.60	5.60	0.188	103.27	81.06	81.12
6	12/6/96	245	36.20	36.30	23.80	23.70	5.60	5.80	0.125	90.12	81.14	84.00
6	12/6/96	246	36.30	36.40	25.30	24.80	5.60	5.60	0.063	56.27	82.54	82.16
6	12/6/96	247	36.40	36.40	23.70	23.60	6.00	6.00	0.550	87.06	86.95	86.85
6	12/6/96	248	36.40	36.40	24.80	24.80	5.80	5.90	0.094	71.91	85.09	86.56
6	12/6/96	249	36.30	36.30	25.30	25.10	5.60	5.30	0.085	51.63	82.54	77.95
6	12/5/96	250	36.50	36.50	23.40	23.40	5.30	5.30	0.431	94.05	76.59	76.59
6	12/5/96	251	36.40	36.40	24.00	24.00	5.80	5.80	0.238	87.21	84.34	84.34
6	12/5/96	252	36.20	36.30	25.50	24.90	5.60	5.60	0.114	58.47	82.66	82.19
6	12/5/96	253	34.30	36.70	23.40	23.40	6.70	4.70		92.84	95.44	68.00
6	12/5/96	254	36.10	36.30	23.50	23.60	5.50	5.60	0.471	134.30	79.36	81.01
6	12/5/96	255	36.40	36.40	24.70	24.40	5.80	5.90	0.148	62.05	85.00	86.18
6	12/6/96	256	36.20	36.30	25.60	24.10	5.60	5.40	0.120	90.98	82.74	78.56
6	12/5/96	257	36.80		23.40		5.20			95.55	75.29	0.00
6	12/5/96	258	36.30	36.30	25.00	24.10	5.70	5.80	0.152	56.00	83.75	84.38
6	12/6/96	259	36.30	36.30	25.30	25.30	5.60	5.50	0.091	50.82	82.54	81.07
6	12/4/96	260	37.20	37.20	28.40	28.40	5.70	5.80	0.510	98.03	86.95	88.48
6	12/4/96	261	36.50	36.50	24.10	24.10	6.00	6.00	0.263	68.02	87.41	87.41
6	12/4/96	262								82.30		
6	12/4/96	263								81.20		
6	12/7/96	264	36.30	36.30	25.30	25.00	5.60	5.60	0.107	51.56	82.54	82.28
6	10/2/96	265	36.10	36.10	28.50	28.50	5.80	5.80	0.564	68.08	87.94	87.94
6	12/4/96	266	36.50	37.30	24.10	23.90	6.10	6.00	0.482	84.68	88.86	87.66
6	12/4/96	267	36.30	36.40	25.50	24.70	5.70	6.30	0.176	48.84	84.19	92.33
6	12/4/96	268	36.60	36.60	23.60	23.60	6.40	6.20	0.269	90.49	92.76	89.86
6	12/4/96	269	36.40	36.50	24.40	23.40	5.80	5.80	0.067	43.10	84.72	83.81
6	12/4/96	270	36.30	36.40	25.10	24.20	5.60	5.80	0.165	39.66	82.37	84.53
6	12/4/96	271	36.50	36.60	23.50	23.50	5.80	5.40	0.306	104.28	83.91	78.17
6	12/4/96	272	36.40	36.40	23.60	23.60	5.70	5.60	0.294	72.02	82.51	81.06
6	12/4/96	273	36.30	36.40	24.40	23.70	5.70	5.60	0.237	74.33	83.21	81.15
6	12/4/96	274	36.10		23.50		5.70			88.13	82.25	0.00
6	12/4/96	275	35.90	35.90	23.70	23.70	5.80	5.80	0.288	55.33	83.78	83.78
6	12/4/96	276	36.30	36.30	24.90	24.90	5.50	5.40	0.112	48.61	80.72	79.26
6	12/4/96	277	36.30	36.30	25.30	25.30	5.70	5.70	0.180	69.72	84.01	84.01
6	12/4/96	278	36.30	36.30	25.30	25.30	6.00	5.70	0.178	40.53	88.44	84.01
6	12/4/96	279	36.30	36.30	25.00	24.40	5.60	5.70	0.120	65.82	82.28	83.21
6	12/4/96	280		36.20	24.70	24.90	7.60	7.20	0.836	53.61	88.07	105.61
6	11/20/96	281	36.30	36.60	24.70	23.50	5.90	5.80	0.346	73.99	86.41	83.96

SURV	DATE	STA	LATDEC	LONDEC	NOX-S	NOX-B	NO3-S	NO3-B	NO2-S	NO2-B	NH4-S	NH4-B	TN-S	TN-B	TIN-S	TIN-B
6	10/2/96	282	24.86667	-80.88500	0.10		0.05		0.05		0.40		20.43		0.50	
6	10/2/96	283	24.90000	-81.00000	0.01		0.00		0.01		0.17		16.54		0.19	
6	10/2/96	284	24.87667	-80.95833	0.07		0.03		0.04		0.27		17.06		0.34	
6	10/2/96	285	24.80998	-80.92028	1.01		0.87		0.14		0.79		17.87		1.79	
6	10/3/96	286	24.78333	-80.92395	0.65		0.52		0.13		1.01		18.49		1.65	
6	10/2/96	287	24.84667	-81.00833	0.08		0.04		0.05		0.28		14.86		0.36	
6	10/2/96	288	24.88333	-81.08333	0.07		0.04		0.03		0.21		15.26		0.29	
6	10/2/96	289	24.77775	-81.03300	0.25		0.17		0.08		0.66		17.66		0.91	
6	10/3/96	290	24.86267	-81.21623	0.06		0.04		0.03		0.25		13.71		0.31	
6	10/3/96	291	24.81682	-81.14678	0.06		0.02		0.04		0.30		14.27		0.36	
6	10/2/96	292	24.76312	-81.11248	0.25		0.17		0.09		0.50		17.88		0.75	
6	10/2/96	293	24.73753	-81.10930	0.70		0.60		0.10		0.51		18.08		1.20	
6	10/2/96	294	24.75550	-81.17218	0.13		0.09		0.04		0.40		17.86		0.52	
6	10/3/96	295	24.85163	-81.35123	0.11		0.06		0.06		0.32		15.68		0.43	
6	10/3/96	296	24.79152	-81.28908	0.21		0.14		0.07		0.42		15.67		0.63	
6	10/3/96	297	24.74077	-81.21118	0.16		0.11		0.05		0.37		14.82		0.52	
6	10/1/96	298	24.84085	-81.43112	0.18		0.12		0.06		0.34		15.29		0.52	
6	10/1/96	299	24.68737	-81.34182	1.24		1.04		0.21		1.98		21.39		3.22	
6	10/1/96	300	24.70882	-81.30923	0.25		0.18		0.07		0.88		14.93		1.12	
6	10/1/96	301	24.77258	-81.39665	0.19		0.13		0.06		0.45		16.26		0.63	
6	10/1/96	302	24.80128	-81.48227	0.26		0.22		0.04		0.64		13.32		0.90	
6	10/1/96	303	24.69242	-81.39198	0.62		0.52		0.10		1.61		21.49		2.23	
6	10/1/96	304	24.71220	-81.45157	0.92		0.83		0.09		0.64		18.82		1.56	
6	10/1/96	305	24.76852	-81.55500	0.21		0.15		0.06		0.37		13.36		0.59	
6	10/1/96	306	24.73770	-81.59247	0.33		0.25		0.08		0.82		15.87		1.15	
6	10/1/96	307	24.72503	-81.52052	0.14		0.07		0.07		0.43		14.37		0.57	
6	10/1/96	308	24.69430	-81.48820	0.47		0.38		0.09		0.75		17.55		1.22	
6	10/2/96	309	24.69772	-81.68318	0.49		0.39		0.11		0.47		12.94		0.96	
6	10/2/96	310	24.65752	-81.63265	1.87		1.77		0.10		0.89		17.21		2.76	
6	10/2/96	311	24.61762	-81.65008	1.16		1.06		0.10		0.77		17.54		1.93	
6	10/2/96	312	24.65978	-81.76343	0.07		0.02		0.05		0.36		13.55		0.42	
6	10/2/96	313	24.64157	-81.73210	0.12		0.07		0.05		0.54		17.80		0.66	
6	10/1/96	314	24.75043	-81.43578	0.47		0.40		0.07		0.87		18.91		1.34	
6	10/2/96	315	24.63325	-81.82827	0.17		0.13		0.04		0.41		13.72		0.58	
6	10/2/96	316	24.58577	-81.80240	0.58		0.47		0.11		0.69		15.14		1.27	
6	10/2/96	317	24.57500	-81.78833	0.44		0.35		0.09		0.70		14.73		1.13	
6	11/21/96	318	24.65083	-81.90467	0.01	0.02	0.00	0.00	0.01	0.02	0.14	0.13	15.66	14.36	0.15	0.14
6	11/21/96	319	24.62900	-82.07133	0.15	0.23	0.12	0.20	0.03	0.03	0.30	0.25	15.17	14.83	0.45	0.48
6	11/21/96	320	24.65167	-82.96667	0.02	0.37	0.00	0.27	0.02	0.11	0.44	0.97	9.43	10.80	0.45	1.34
6	11/21/96	321	24.64167	-82.94000	0.03	0.06	0.00	0.00	0.03	0.06	0.23	0.20	9.30	9.25	0.25	0.26
6	11/20/96	322	24.45833	-81.98167	0.04	0.04	0.00	0.00	0.04	0.04	0.24	0.24	10.46	10.94	0.27	0.28

SURV	DATE	STA	TON-S	TON-B	TP-S	TP-B	SRP-S	SRP-B	APA-S	APA-B	CHLA	TOC-S	TOC-B	SIO4-S	SIO4-B	TURB-S	TURB-B
6	10/2/96	282	19.93		0.29		0.01		0.04		0.27	286.40		8.41		1.40	
6	10/2/96	283	16.35		0.37		0.01		0.15		1.67	282.52		10.99		3.60	
6	10/2/96	284	16.72		0.22		0.01		0.06		0.20	267.19		9.57		0.30	
6	10/2/96	285	16.08		0.18		0.01		0.05		0.28	290.75		5.17		1.00	
6	10/3/96	286	16.84		0.14		0.00		0.06		0.28	283.38		4.46		1.80	
6	10/2/96	287	14.50		0.19		0.01		0.06		0.23	274.40		42.44		0.50	
6	10/2/96	288	14.98		0.25		0.00		0.14		1.02	255.88		12.41		0.70	
6	10/2/96	289	16.75		0.20		0.03		0.05		0.24	261.00		55.15		1.20	
6	10/3/96	290	13.40		0.21		0.01		0.05		0.38	209.02		1.32		1.50	
6	10/3/96	291	13.92		0.19		0.02		0.08		0.26	227.69		1.82		0.40	
6	10/2/96	292	17.13		0.17		0.02		0.06		0.18	270.00		6.55		1.10	
6	10/2/96	293	16.88		0.19		0.00		0.05		0.31	254.15		2.91		0.80	
6	10/2/96	294	17.33		0.21		0.04		0.12		0.61	255.31		2.72		1.40	
6	10/3/96	295	15.25		0.25		0.01		0.07		0.74	212.25		8.47		1.90	
6	10/3/96	296	15.04		0.18		0.02		0.07		0.25	241.50		5.45		0.20	
6	10/3/96	297	14.30		0.16		0.00		0.07		0.30	222.10		2.65		0.80	
6	10/1/96	298	14.78		0.27		0.01		0.04		0.26	252.25		2.58		0.70	
6	10/1/96	299	18.17		0.25		0.03		0.05		0.34	301.96		2.04		0.60	
6	10/1/96	300	13.81		0.24		0.02		0.04		0.24	255.73		3.02		0.70	
6	10/1/96	301	15.63		0.25		0.01		0.06		0.23	288.02		2.55		0.70	
6	10/1/96	302	12.42		0.24		0.01		0.03		0.25	238.21		2.04		0.60	
6	10/1/96	303	19.26		0.20		0.01		0.23		0.31	332.85		2.55		0.70	
6	10/1/96	304	17.26		0.26		0.02		0.05		0.20	270.38		1.53		0.90	
6	10/1/96	305	12.78		0.19		0.00		0.04		0.18	235.54		1.46		0.70	
6	10/1/96	306	14.73		0.23		0.00		0.04		0.11	262.21		1.02		1.00	
6	10/1/96	307	13.79		0.21		0.00		0.04		0.17	244.00		1.44		1.10	
6	10/1/96	308	16.33		0.21		0.01		0.09		0.24	312.13		1.60		1.70	
6	10/2/96	309	11.98		0.20		0.02		0.04		0.24	214.96		0.80		0.50	
6	10/2/96	310	14.46		0.21		0.02		0.06		0.14	245.46		0.47		1.30	
6	10/2/96	311	15.61		0.16		0.01		0.10		0.14	267.27		1.51		1.30	
6	10/2/96	312	13.13		0.24		0.00		0.06		0.21	219.04		1.06		0.80	
6	10/2/96	313	17.15		0.23		0.03		0.05		0.24	224.65		2.88		0.90	
6	10/1/96	314	17.57		0.22		0.02		0.05		0.22	273.27		2.44		0.50	
6	10/2/96	315	13.14		0.21		0.02		0.06		0.22	199.17		2.11		0.70	
6	10/2/96	316	13.87		0.21		0.02		0.05		0.26	255.13		2.04		0.70	
6	10/2/96	317	13.60		0.22		0.01		0.04		0.17	255.27		1.38		0.50	
6	11/21/96	318	15.51	14.22	0.27	0.23	0.02	0.02	0.04	0.06	0.82	245.75	237.33	0.62	0.00	0.85	0.50
6	11/21/96	319	14.73	14.36	0.24	0.24	0.03	0.01	0.04	0.04	0.85	303.46	249.15	0.00	0.00	2.10	0.75
6	11/21/96	320	8.98	9.46	0.17	0.25	0.01	0.04	0.05	0.03	0.57	228.25	217.58	0.42	3.17	0.45	0.68
6	11/21/96	321	9.05	8.99	0.15	0.14	0.02	0.02	0.04	0.05	0.58	198.73	180.69	0.56	0.42	0.53	0.60
6	11/20/96	322	10.19	10.66	0.12	0.17	0.00	0.00	0.03	0.05	0.59	188.35	191.98	0.56	0.84	0.80	1.15

SURV	DATE	STA	SAL-S	SAL-B	TEMP-S	TEMP-B	DO-S	DO-B	Kd	TN:TP	%SAT_S	%SAT_B
6	10/2/96	282	35.60	35.60	28.30	28.30	5.70	5.70	0.498	69.86	86.01	86.01
6	10/2/96	283	35.70	35.70	28.60	28.60	6.00	6.00	0.659	44.70	90.82	90.82
6	10/2/96	284	35.50	35.50	28.40	28.40	6.20	6.40		77.55	93.57	96.59
6	10/2/96	285	35.60	35.60	28.00	28.00	4.90	5.00	0.357	99.27	73.75	75.26
6	10/3/96	286	35.70	35.70	28.00	28.00	4.90	4.80	0.454	129.74	73.80	72.29
6	10/2/96	287	36.10	36.10	28.70	28.70	6.20	6.20	1.034	80.30	94.16	94.16
6	10/2/96	288	35.90	35.90	28.60	28.60	6.10	6.20	0.337	61.67	92.45	93.96
6	10/2/96	289	36.20	36.20	28.10	28.10	4.90	5.00		89.40	74.10	75.61
6	10/3/96	290	36.10	36.10	28.20	28.20	5.40	5.40	0.358	65.30	81.67	81.67
6	10/3/96	291	35.50	35.50	28.00	28.00	5.10	5.20	0.352	75.11	76.72	78.22
6	10/2/96	292	35.20	35.30	28.50	28.50	5.60	5.70	0.399	103.65	84.43	85.99
6	10/2/96	293	35.70	35.70	28.20	28.20	5.40	5.50	0.605	96.45	81.47	82.98
6	10/2/96	294	35.60	35.60	27.80	27.80	4.90	4.90	0.356	87.10	73.63	73.63
6	10/3/96	295	36.80	36.80	27.80	27.80	4.90	4.90	0.591	62.70	74.19	74.19
6	10/3/96	296	36.10	36.10	27.60	27.60	4.50	4.50	0.404	87.06	67.71	67.71
6	10/3/96	297	35.80	35.80	27.70	27.70	4.80	4.80		94.09	72.15	72.15
6	10/1/96	298	36.70	36.70	28.00	28.00	5.10	5.10	0.757	56.64	77.30	77.30
6	10/1/96	299	37.00	37.00	28.00	28.00	4.90	4.70	0.713	84.72	74.41	71.37
6	10/1/96	300	36.80	36.80	27.90	27.90	5.60	5.60	0.696	61.58	84.86	84.86
6	10/1/96	301	36.90	36.90	28.00	28.00	5.50	5.50	0.874	64.39	83.47	83.47
6	10/1/96	302	36.10	36.10	28.40	28.40	6.00	6.00	0.876	56.66	90.90	90.90
6	10/1/96	303	36.80	36.80	28.00	28.00	4.90	4.70	0.929	110.19	74.32	71.28
6	10/1/96	304	36.70	36.70	28.60	28.60	6.30	6.40	0.906	73.80	95.96	97.48
6	10/1/96	305	36.90	36.80	28.40	28.50	6.00	6.10	0.849	69.41	91.36	92.90
6	10/1/96	306	36.70	36.70	28.10	28.10	6.10	6.10	0.822	70.55	92.53	92.53
6	10/1/96	307	36.80	36.80	28.30	28.30	6.70	6.70	0.815	69.23	101.87	101.87
6	10/1/96	308	37.20	37.20	28.70	28.70	6.70	6.70	0.789	83.56	102.46	102.46
6	10/2/96	309	36.80	36.90	28.00	28.00	4.60	4.60	0.768	63.91	69.77	69.81
6	10/2/96	310	36.80	36.80	28.00	28.00	6.20	6.20	0.701	83.97	94.03	94.03
6	10/2/96	311	36.30	36.30	28.00	28.00	5.90	6.10	0.858	113.15	89.20	92.22
6	10/2/96	312	36.60	36.60	27.70	27.70	4.50	4.50	0.763	57.66	67.99	67.99
6	10/2/96	313	36.50	36.40	27.50	27.50	5.00	5.00	0.752	79.12	75.36	75.32
6	10/1/96	314	36.80	36.90	28.00	28.00	5.00	5.00	0.794	86.93	75.83	75.88
6	10/2/96	315	35.90	35.90	27.70	27.70	4.80	4.70	0.773	66.93	72.20	70.70
6	10/2/96	316	36.50	36.50	28.40	28.30	5.50	5.30	0.780	72.97	83.53	80.43
6	10/2/96	317	37.00	37.00	28.10	28.10	5.40	5.50	0.759	66.21	82.07	83.59
6	11/21/96	318	35.80	36.00	22.80	22.80	6.10	6.20	0.403	57.46	87.11	88.66
6	11/21/96	319	36.00	36.00	23.00	23.00	6.20	6.20	0.438	64.57	88.87	88.87
6	11/21/96	320	36.30	36.70	25.20	23.40	5.70	5.50	0.175	55.47	83.93	79.58
6	11/21/96	321	36.40	36.40	25.10	25.10	5.70	5.60	0.152	62.00	83.89	82.42
6	11/20/96	322	36.40	36.40	24.90	24.30	6.00	6.10	0.332	87.19	88.12	89.00

SURV	DATE	STA	LATDEC	LONDEC	NOX-S	NOX-B	NO3-S	NO3-B	NO2-S	NO2-B	NH4-S	NH4-B	TN-S	TN-B	TIN-S	TIN-B
6	11/21/96	323	24.70500	-82.17000	0.00	0.08	0.00	0.07	0.00	0.01	0.20	0.28	16.21	14.17	0.20	0.36
6	11/21/96	324	24.65333	-82.15833	0.06	0.03	0.06	0.00	0.00	0.03	0.45	0.09	13.32	10.47	0.52	0.11
6	11/20/96	325	24.54167	-82.10000	0.05	0.04	0.00	0.00	0.05	0.04	0.43	0.19	11.82	9.98	0.47	0.23
6	11/21/96	326	24.70833	-82.25000	0.05	0.29	0.04	0.28	0.01	0.02	0.30	0.55	12.64	13.52	0.35	0.84
6	11/21/96	327	24.61667	-82.22333	0.17	0.20	0.14	0.15	0.04	0.05	0.63	0.38	9.81	9.19	0.80	0.59
6	11/20/96	328	24.45400	-82.22400	0.16	0.09	0.11	0.04	0.06	0.05	0.32	0.35	9.51	6.55	0.48	0.44
6	11/21/96	329	24.71667	-82.54167	0.01	0.09	0.00	0.07	0.01	0.02	0.58	0.70	12.75	9.84	0.59	0.79
6	11/21/96	330	24.66533	-82.37400	0.06	0.08	0.06	0.06	0.01	0.02	0.41	0.48	14.61	13.25	0.48	0.55
6	11/20/96	331	24.50683	-82.28767	0.02	0.02	0.02	0.00	0.00	0.02	0.14	0.11	13.37	11.70	0.16	0.13
6	11/20/96	332	24.53550	-82.36733	0.08	0.16	0.06	0.14	0.03	0.03	0.34	0.16	10.94	10.99	0.43	0.32
6	11/21/96	333	24.57717	-82.49133	0.07	0.00	0.06	0.00	0.02	0.00	0.21	0.34	13.09	10.60	0.28	0.34
6	11/21/96	334	24.51217	-82.45033	0.05	0.07	0.03	0.05	0.02	0.03	0.43	0.28	14.04	10.34	0.48	0.35
6	11/21/96	335	24.46083	-82.38317	0.10	0.06	0.05	0.05	0.05	0.02	0.40	0.16	9.55	8.03	0.50	0.22
6	11/21/96	336	24.65483	-82.64633	0.07	0.11	0.06	0.07	0.01	0.04	0.20	0.44	8.99	9.22	0.27	0.54
6	11/21/96	337	24.59133	-82.58783	0.12	0.10	0.11	0.07	0.02	0.04	0.40	0.15	7.13	8.13	0.52	0.25
6	11/21/96	338	24.63680	-82.87700	0.11	0.09	0.10	0.06	0.01	0.04	0.23	0.31	7.34	7.92	0.34	0.40
6	11/21/96	339	24.42833	-82.51083	0.03	0.03	0.00	0.00	0.03	0.03	0.30	0.34	7.06	7.39	0.32	0.37
6	11/21/96	340	24.48500	-82.65333	0.02	0.02	0.00	0.00	0.02	0.02	0.16	0.23	8.61	6.86	0.18	0.25
6	11/21/96	341	24.69833	-82.88333	0.05	0.13	0.02	0.10	0.03	0.03	0.49	0.16	8.68	8.10	0.54	0.28
6	11/21/96	342	24.70600	-82.74567	0.02	0.21	0.00	0.17	0.02	0.04	0.39	0.66	9.76	10.12	0.41	0.87
6	11/21/96	343	24.75500	-82.85500	0.09	0.05	0.05	0.00	0.04	0.05	0.39	0.80	10.07	9.43	0.47	0.85
6	11/21/96	344	24.56333	-82.80500	0.03	1.53	0.00	1.45	0.03	0.09	0.42	0.75	10.28	6.79	0.45	2.28
6	11/21/96	345	24.37900	-82.70467	0.03	0.11	0.01	0.04	0.02	0.07	0.13	0.42	10.33	6.83	0.16	0.53
6	11/21/96	346	24.66667	-83.00833	0.02	0.50	0.00	0.41	0.02	0.08	0.48	0.42	8.57	6.66	0.50	0.92
6	11/21/96	347	24.65400	-82.99667	0.01	0.37	0.00	0.32	0.01	0.05	0.63	0.25	8.46	7.03	0.63	0.62
6	11/21/96	348	24.64167	-82.85500	0.12	0.23	0.09	0.19	0.04	0.03	0.48	0.23	7.24	7.49	0.60	0.46
6	11/21/96	349	24.63795	-82.93113	0.15	0.18	0.13	0.15	0.02	0.03	0.26	0.26	9.38	7.89	0.41	0.43
6	11/21/96	350	24.45000	-82.86667	0.04	0.03	0.01	0.00	0.03	0.03	0.62	0.34	7.90	8.38	0.66	0.36
7	5/2/97	200	25.59000	-80.10000	0.09	0.07	0.05	0.00	0.04	0.07	0.27	0.25	11.93	9.62	0.36	0.32
7	5/2/97	201	25.51000	-80.16500	0.05	0.09	0.00	0.00	0.05	0.09	0.24	0.20	11.98	11.63	0.30	0.29
7	5/2/97	202	25.49380	-80.15010	0.07	0.03	0.00	0.00	0.07	0.03	0.21	0.10	10.36	10.33	0.27	0.13
7	5/2/97	203	25.48053	-80.11768	0.05		0.02		0.03		0.24		8.04		0.29	
7	5/2/97	204	25.43082	-80.19553	0.16	0.15	0.09	0.08	0.07	0.07	0.38	0.41	9.64	9.11	0.54	0.56
7	5/2/97	205	25.42798	-80.18200	0.05	0.00	0.00	0.00	0.05	0.00	0.21	0.14	8.15	8.52	0.26	0.14
7	5/2/97	206	25.41497	-80.14300	0.05	0.08	0.00	0.00	0.05	0.08	0.45	0.41	8.39	8.04	0.50	0.49
7	5/2/97	207	25.36443	-80.21508	0.03		0.00		0.03		0.43		10.24		0.46	
7	5/2/97	208	25.35918	-80.20052	0.09	0.04	0.00	0.00	0.09	0.04	0.34	0.24	9.93	9.46	0.43	0.28
7	2/19/97	209	24.58570	-81.72272	0.11		0.09		0.02		0.13		27.90		0.24	
7	5/2/97	210	25.32500	-80.16360	0.05	0.06	0.00	0.00	0.05	0.06	0.13	0.38	7.41	6.06	0.18	0.43
7	5/2/97	211	25.30788	-80.26165	0.07	0.12	0.01	0.04	0.06	0.08	0.21	0.22	11.26	10.99	0.28	0.34
7	5/2/97	212	25.29452	-80.24542	0.05	0.04	0.00	0.00	0.05	0.04	0.19	0.25	8.39	8.84	0.24	0.29

SURV	DATE	STA	TON-S	TON-B	TP-S	TP-B	SRP-S	SRP-B	APA-S	APA-B	CHLA	TOC-S	TOC-B	SIO4-S	SIO4-B	TURB-S	TURB-B
6	11/21/96	323	16.01	13.81	0.26	0.20	0.00	0.03	0.02	0.04	1.25	248.71	230.19	0.86	0.00	2.05	1.40
6	11/21/96	324	12.81	10.35	0.19	0.17	0.06	0.00	0.04	0.04	1.01	236.25	253.79	0.00	0.00	1.70	0.50
6	11/20/96	325	11.35	9.75	0.15	0.15	0.00	0.00	0.06	0.07	0.99	221.83	212.48	0.70	0.70	1.15	1.15
6	11/21/96	326	12.28	12.68	0.25	0.23	0.02	0.05	0.02	0.03	0.66	245.35	253.15	2.18	1.24	0.95	2.50
6	11/21/96	327	9.02	8.60	0.13	0.15	0.04	0.06	0.04	0.04	0.97	217.46	210.19	0.31	0.31	1.75	0.80
6	11/20/96	328	9.04	6.11	0.15	0.12	0.01	0.00	0.01	0.01	0.42	194.27	187.69	0.45	0.49	0.75	0.45
6	11/21/96	329	12.16	9.06	0.24	0.23	0.09	0.07	0.04	0.03	0.66	241.63	222.79	2.41	1.52	0.80	1.68
6	11/21/96	330	14.13	12.70	0.29	0.19	0.02	0.07	0.03	0.02	1.34	256.96	223.73	0.19	0.16	1.60	1.25
6	11/20/96	331	13.22	11.57	0.15	0.13	0.01	0.00	0.02	0.05	0.41	198.46	181.58	0.37	0.98	0.65	2.25
6	11/20/96	332	10.51	10.67	0.13	0.15	0.00	0.00	0.04	0.03	0.61	203.77	181.85	0.52	0.49	1.25	1.00
6	11/21/96	333	12.81	10.26	0.19	0.17	0.01	0.02	0.05	0.05	0.69		181.50	0.16	0.23	2.25	4.93
6	11/21/96	334	13.56	9.99	0.14	0.15	0.00	0.01	0.03	0.06	0.71	193.25	183.00	0.74	0.61	1.65	0.85
6	11/21/96	335	9.06	7.81	0.15	0.15	0.00	0.02	0.02	0.04	0.51	174.67	182.81	0.49	1.23	0.80	1.25
6	11/21/96	336	8.73	8.67	0.17	0.25	0.01	0.02	0.03	0.04	0.42	294.23	308.25	0.46	1.72	0.50	1.48
6	11/21/96	337	6.62	7.88	0.17	0.19	0.02	0.01	0.04	0.04	0.63	257.88	241.94	0.40	0.64	0.65	0.91
6	11/21/96	338	7.01	7.52	0.17	0.16	0.02	0.00	0.05	0.03	0.49	236.27	222.92	0.49	0.56	0.26	0.21
6	11/21/96	339	6.74	7.03	0.17	0.16	0.00	0.01	0.02	0.01	0.44	217.92	213.10	0.56	0.70	1.10	0.80
6	11/21/96	340	8.43	6.61	0.16	0.16	0.01	0.02	0.02	0.02	0.36	198.06	186.60	0.58	0.51	1.60	0.45
6	11/21/96	341	8.13	7.82	0.17	0.16	0.01	0.01	0.03	0.04	0.46	232.83	232.10	0.29	0.29	0.29	0.34
6	11/21/96	342	9.35	9.26	0.23	0.24	0.01	0.01	0.04	0.04	0.78	195.52	233.15	1.01	1.56	0.50	1.12
6	11/21/96	343	9.60	8.58	0.14	0.23	0.00	0.02	0.03	0.03	0.34			0.29	0.62	0.37	0.20
6	11/21/96	344	9.84	4.51	0.18	0.22	0.00	0.04	0.03	0.03	0.29	202.33	204.48	0.43	1.70	0.12	1.23
6	11/21/96	345	10.17	6.30	0.15	0.14	0.00	0.03	0.02	0.01	0.23	191.73	202.35	0.29	0.87	3.00	1.55
6	11/21/96	346	8.07	5.74	0.14	0.17	0.01	0.03	0.04	0.03	0.32	206.19	229.06	0.29	0.65	0.58	0.38
6	11/21/96	347	7.83	6.41	0.14	0.20	0.02	0.02	0.03	0.04	0.48	239.85	241.79	0.33	0.72	0.09	0.31
6	11/21/96	348	6.64	7.03	0.15	0.15	0.01	0.01	0.03	0.03	0.56	266.88	207.29	0.65	0.65	0.50	0.57
6	11/21/96	349	8.98	7.46	0.16	0.15	0.01	0.00	0.04	0.03	0.49	266.44	260.46	0.33	0.29	0.17	0.00
6	11/21/96	350	7.24	8.01	0.14	0.14	0.00	0.00	0.03	0.03	0.20	269.54	267.02	0.49	0.56	0.00	0.06
7	5/2/97	200	11.57	9.31	0.11	0.14	0.01	0.00	0.02	0.03	0.11	237.21	234.92	0.07	0.07	0.47	0.30
7	5/2/97	201	11.69	11.34	0.15	0.20	0.02	0.02	0.05	0.04	0.22	275.90	280.69	0.86	0.96	0.49	0.74
7	5/2/97	202	10.09	10.20	0.16	0.13	0.01	0.02	0.03	0.04	0.17	257.85	256.44	0.40	0.52	0.34	0.29
7	5/2/97	203	7.75		0.10		0.01		0.03		0.28	241.42		0.17		0.53	
7	5/2/97	204	9.10	8.55	0.11	0.13	0.01	0.00	0.04	0.04	0.23	267.00	258.69	0.53	0.71	0.98	0.72
7	5/2/97	205	7.89	8.38	0.15	0.15	0.00	0.00	0.05	0.05	0.22	270.29	275.29	0.72	0.69	0.37	0.53
7	5/2/97	206	7.89	7.54	0.18	0.20	0.00	0.00	0.04	0.03	0.17	270.25	252.77	0.55	0.50	0.34	0.25
7	5/2/97	207	9.79		0.17		0.00		0.07		0.20	279.73		1.09		1.27	
7	5/2/97	208	9.50	9.18	0.17	0.18	0.00	0.00	0.05	0.05	0.16	270.42	275.60	0.94	0.96	0.46	0.63
7	2/19/97	209	27.66		0.14		0.01		0.09		0.19	261.00		0.00		1.90	
7	5/2/97	210	7.24	5.63	0.18	0.20	0.00	0.01	0.03	0.03	0.21	230.19	238.29	0.07	0.29	0.16	0.16
7	5/2/97	211	10.98	10.65	0.18	0.18	0.01	0.01	0.04	0.05	0.35	276.38	275.44	2.14	2.12	0.68	0.71
7	5/2/97	212	8.15	8.55	0.15	0.18	0.01	0.00	0.05	0.05	0.16	244.81	267.92	0.24	0.18	0.32	0.57

SURV	DATE	STA	SAL-S	SAL-B	TEMP-S	TEMP-B	DO-S	DO-B	Kd	TN:TP	%SAT_S	%SAT_B
6	11/21/96	323	35.90	36.60	23.10	22.40	6.10	6.00	0.253	62.33	87.49	85.71
6	11/21/96	324	36.60	36.60	22.90	22.90	6.20	6.30	0.369	71.05	89.11	90.55
6	11/20/96	325	36.50	36.50	24.10	23.90	6.10	6.10	0.457	81.49	88.86	88.66
6	11/21/96	326	36.10	36.30	23.10	22.60	6.10	5.90	0.267	50.55	87.60	84.32
6	11/21/96	327	36.50	36.50	24.20	24.20	6.40	6.50	0.342	74.07	93.34	94.80
6	11/20/96	328	36.20	36.20	26.00	26.00	5.60	5.50	0.214	63.43	83.07	81.59
6	11/21/96	329	36.30	36.50	23.50	23.10	6.00	5.80	0.192	53.11	86.69	83.51
6	11/21/96	330	36.50	36.50	23.30	23.10	6.10	6.10	0.291	51.25	88.04	87.83
6	11/20/96	331	36.30	36.40	25.50	24.80	5.80	5.90	0.285	90.66	85.66	86.56
6	11/20/96	332	36.40	36.40	24.50	24.50	5.90	5.90	0.371	84.14	86.28	86.28
6	11/21/96	333	36.40	36.40	24.70	24.30	5.80	5.80	0.251	69.83	85.00	84.63
6	11/21/96	334	35.90		24.90					98.53		
6	11/21/96	335	36.30	36.40	25.70	24.90	5.70	5.80	0.216	64.76	84.36	85.18
6	11/21/96	336	36.40	36.40	24.90	23.00	5.80	5.80	0.164	54.50	85.18	83.36
6	11/21/96	337	36.40	36.50	24.80	24.20	5.80	5.80	0.084	42.58	85.09	84.59
6	11/21/96	338	36.40	36.40	25.00	25.00	5.50	5.30	0.149	42.56	80.86	77.92
6	11/21/96	339	36.30	36.30	25.80	25.80	5.70	5.70	0.162	40.90	84.44	84.44
6	11/21/96	340	36.30	36.30	25.20	25.20	5.80	5.80	0.194	55.56	85.40	85.40
6	11/21/96	341	36.40	36.40	25.10	25.00	5.60	5.60	0.110	51.79	82.42	82.33
6	11/21/96	342	36.40	36.40	23.80	23.10	5.90	5.70	0.181	42.89	85.60	82.02
6	11/21/96	343	36.40	36.50	25.00	23.60	5.60	5.70	0.132	73.27	82.33	82.56
6	11/21/96	344	36.40	36.60	25.00	23.70	5.80	5.30	0.138	58.77	85.27	76.91
6	11/21/96	345	36.20	36.50	26.20	24.50	5.60	5.50	0.062	70.02	83.24	80.48
6	11/21/96	346	36.30	36.50	25.30	24.30	5.70	5.50	0.132	62.31	84.01	80.30
6	11/21/96	347	36.30	36.60	25.50	23.90	5.70	5.50	0.143	61.91	84.19	79.99
6	11/21/96	348	36.40	36.40	25.10	25.10	5.60	5.50	0.127	47.46	82.42	80.95
6	11/21/96	349	36.40	36.40	25.10	25.10	5.70	5.60	0.130	57.74	83.89	82.42
6	11/21/96	350	36.30	36.30	26.10	25.40	5.60	5.70	0.090	57.46	83.21	84.10
7	5/2/97	200	36.10	36.10	27.20	27.00	6.50	6.70		106.06	97.46	100.28
7	5/2/97	201	36.10	36.10	27.20	27.00	6.50	6.70		78.56	97.46	100.28
7	5/2/97	202	36.10	36.10	27.20	27.00	6.50	6.70		66.84	97.46	100.28
7	5/2/97	203	36.10	36.10	27.20	27.00	6.50	6.70		80.38	97.46	100.28
7	5/2/97	204	36.10	36.10	27.20	27.00	6.50	6.70		89.63	97.46	100.28
7	5/2/97	205	36.10	36.10	27.20	27.00	6.50	6.70		56.18	97.46	100.28
7	5/2/97	206	36.10	36.10	27.20	27.00	6.50	6.70		46.60	97.46	100.28
7	5/2/97	207	36.10	36.10	27.20	27.00	6.50	6.70		62.09	97.46	100.28
7	5/2/97	208	36.10	36.10	27.20	27.00	6.50	6.70		60.19	97.46	100.28
7	2/19/97	209	37.80	37.80	24.40	24.40	7.90	7.90		199.27	116.44	116.44
7	5/2/97	210	37.80	37.80	24.40	24.40	7.90	7.90		41.77	116.44	116.44
7	5/2/97	211	37.80	37.80	24.40	24.40	7.90	7.90		61.71	116.44	116.44
7	5/2/97	212	37.80	37.80	24.40	24.40	7.90	7.90		55.00	116.44	116.44

SURV	DATE	STA	LATDEC	LONDEC	NOX-S	NOX-B	NO3-S	NO3-B	NO2-S	NO2-B	NH4-S	NH4-B	TN-S	TN-B	TIN-S	TIN-B
7	5/2/97	213	25.26312	-80.18773	0.10	0.23	0.06	0.20	0.04	0.03	0.23	0.20	6.11	7.16	0.33	0.43
7	5/2/97	214	25.24620	-80.29918	0.36		0.29		0.08		0.18		9.31		0.54	
7	5/2/97	215	25.23667	-80.28897	0.02	0.03	0.00	0.00	0.02	0.03	0.18	0.25	8.87	7.67	0.20	0.28
7	5/2/97	216	25.20450	-80.24425	0.02	0.05	0.00	0.03	0.02	0.02	0.34	0.40	8.15	8.13	0.36	0.46
7	4/10/97	217	25.17332	-80.33985	0.10		0.06		0.04		0.11		16.48		0.20	
7	4/10/97	218	25.15897	-80.29455	0.11	0.06	0.09	0.04	0.02	0.02	0.08	0.17	14.64	10.74	0.20	0.23
7	4/10/97	219	25.12587	-80.26477	0.05	0.16	0.04	0.14	0.02	0.02	0.19	0.22	10.41	8.68	0.24	0.38
7	4/10/97	220	25.11355	-80.37342	0.03	0.04	0.02	0.02	0.01	0.02	0.23	0.21	10.58	10.18	0.26	0.25
7	4/10/97	221	25.11025	-80.36088	0.04	0.04	0.01	0.00	0.04	0.04	0.26	0.24	8.74	8.42	0.30	0.28
7	4/10/97	222	25.07237	-80.31277	0.09	0.25	0.06	0.25	0.03	0.01	0.20	0.08	7.74	8.29	0.29	0.33
7	4/10/97	223	25.06018	-80.42312	0.08		0.06		0.02		0.13		7.67		0.20	
7	4/10/97	224	25.03082	-80.39527	0.09		0.06		0.03		0.13		8.22		0.22	
7	4/10/97	225	25.00667	-80.37000	0.02	0.02	0.00	0.00	0.02	0.02	0.13	0.14	6.77	7.28	0.15	0.15
7	4/10/97	226	25.00840	-80.50148	0.02		0.00		0.02		0.17		11.32		0.20	
7	4/10/97	227	25.00167	-80.47490	0.06	0.04	0.03	0.02	0.02	0.02	0.15	0.20	8.44	7.07	0.20	0.25
7	4/10/97	228	24.97667	-80.45000	0.18	0.12	0.14	0.09	0.04	0.03	0.29	0.25	7.24	7.56	0.47	0.36
7	4/10/97	229	24.95012	-80.56218	0.10		0.08		0.03		0.18		10.28		0.29	
7	4/10/97	230	24.93965	-80.55162	0.09	0.05	0.06	0.05	0.02	0.01	0.17	0.18	8.64	8.93	0.25	0.23
7	4/9/97	231	24.91750	-80.51533	0.08	0.02	0.08	0.02	0.00	0.00	0.12	0.12	7.18	7.57	0.20	0.14
7	4/9/97	232	24.92703	-80.59852	0.19		0.14		0.05		0.33		11.60		0.51	
7	4/9/97	233	24.90185	-80.58238	0.00	0.01	0.00	0.00	0.00	0.01	0.06	0.14	9.19	8.78	0.06	0.15
7	4/9/97	234	24.86277	-80.56697	0.02	0.01	0.00	0.00	0.02	0.01	0.15	0.07	9.96	9.01	0.17	0.08
7	4/3/97	235	24.87123	-80.66865	0.13		0.09		0.04		0.36		23.40		0.49	
7	4/3/97	236	24.85970	-80.66240	0.00	0.02	0.00	0.00	0.00	0.02	0.11	0.12	18.57	15.34	0.11	0.13
7	4/3/97	237	24.83265	-80.64907	0.04	0.07	0.02	0.05	0.01	0.02	0.16	0.24	13.31	12.05	0.20	0.31
7	4/3/97	238	24.83442	-80.74683	0.33		0.28		0.06		0.52		23.18		0.85	
7	4/3/97	239	24.80223	-80.71620	0.10	0.04	0.07	0.00	0.03	0.04	0.15	0.23	9.84	8.71	0.25	0.26
7	4/3/97	240	24.78453	-80.70570	0.06	0.18	0.03	0.14	0.04	0.04	0.25	0.23	8.39	8.02	0.31	0.41
7	4/3/97	241	24.80247	-80.80890	0.19		0.14		0.05		0.38		13.56		0.57	
7	4/3/97	242	24.79150	-80.81225	0.07	0.13	0.05	0.12	0.01	0.02	0.17	0.23	11.70	10.91	0.23	0.36
7	4/3/97	243	24.72935	-80.79348	0.07	0.12	0.05	0.08	0.02	0.04	0.26	0.27	9.65	10.15	0.32	0.39
7	4/3/97	244	24.79333	-80.86333	0.18	0.17	0.13	0.13	0.05	0.04	0.27	0.36	11.90	11.70	0.45	0.53
7	4/3/97	245	24.76167	-80.86167	0.04	0.04	0.00	0.00	0.04	0.04	0.33	0.28	9.30	7.46	0.38	0.32
7	4/3/97	246	24.71317	-80.85813	0.05	0.00	0.00	0.00	0.05	0.00	0.47	0.13	9.19	8.59	0.52	0.13
7	4/2/97	247	24.71318	-81.01115	0.02	0.04	0.00	0.00	0.02	0.04	0.23	0.30	15.27	15.29	0.25	0.34
7	4/3/97	248	24.68392	-80.98310	0.02	0.02	0.00	0.00	0.02	0.02	0.30	0.31	12.21	12.03	0.32	0.33
7	4/3/97	249	24.66560	-80.97762	0.04	0.02	0.02	0.00	0.02	0.02	0.44	0.50	9.50	8.03	0.47	0.52
7	4/2/97	250	24.69193	-81.18245	0.16		0.11		0.05		0.25		24.51		0.42	
7	4/2/97	251	24.64502	-81.16508	0.05	0.19	0.00	0.17	0.05	0.02	0.20	0.20	11.28	11.83	0.25	0.38
7	4/2/97	252	24.60693	-81.15442	0.11	0.18	0.10	0.14	0.01	0.04	0.26	0.23	10.83	12.38	0.37	0.40
7	4/2/97	253	24.64537	-81.30723	0.09		0.05		0.04		0.32		22.75		0.41	

SURV	DATE	STA	TON-S	TON-B	TP-S	TP-B	SRP-S	SRP-B	APA-S	APA-B	CHLA	TOC-S	TOC-B	SIO4-S	SIO4-B	TURB-S	TURB-B
7	5/2/97	213	5.79	6.74	0.21	0.17	0.01	0.02	0.02	0.03	0.20	255.15	251.40	0.16	1.28	0.23	0.21
7	5/2/97	214	8.77		0.16		0.02		0.05		0.19	292.65		0.01		1.13	
7	5/2/97	215	8.67	7.40	0.18	0.19	0.00	0.01	0.06	0.06	0.27	273.79	283.71	0.00	0.21	0.56	0.60
7	5/2/97	216	7.79	7.67	0.20	0.19	0.00	0.00	0.03	0.04	0.23	257.81	254.81	0.19	0.16	0.34	0.27
7	4/10/97	217	16.28		0.13		0.01		0.06		0.30	270.25		0.06		1.25	
7	4/10/97	218	14.44	10.51	0.16	0.16	0.01	0.02	0.05	0.05	0.29	260.60	245.29	0.09		0.60	0.45
7	4/10/97	219	10.17	8.30	0.15	0.17	0.02	0.02	0.03	0.03	0.28	237.13	228.56	0.03	0.06	0.05	0.11
7	4/10/97	220	10.32	9.93	0.14	0.11	0.00	0.00	0.06	0.06	0.19	242.06	244.04	0.00	0.00	0.50	0.40
7	4/10/97	221	8.45	8.14	0.12	0.13	0.01	0.01	0.05	0.04	0.22	227.73	231.33	0.00	0.00	0.30	0.25
7	4/10/97	222	7.45	7.97	0.14	0.13	0.00	0.00	0.04	0.03	0.45	212.81	207.75	0.01	0.32	0.07	0.13
7	4/10/97	223	7.47		0.15		0.01		0.07		0.22	232.35		0.24		0.90	
7	4/10/97	224	8.01		0.14		0.00		0.05		0.30	218.90		0.01		0.50	
7	4/10/97	225	6.62	7.13	0.13	0.11	0.00	0.00	0.02	0.03	0.16	210.94	204.40	0.09	0.09	0.10	0.03
7	4/10/97	226	11.12		0.13		0.00		0.09		0.21	240.35		0.17		0.70	
7	4/10/97	227	8.24	6.83	0.12	0.11	0.01	0.01	0.05	0.06	0.23	219.08	225.13	0.00	0.00	0.50	0.30
7	4/10/97	228	6.77	7.20	0.11	0.10	0.03	0.01	0.03	0.03	0.19	212.83	215.65	0.02	0.38	0.05	0.06
7	4/10/97	229	10.00		0.11		0.01		0.05		0.14	243.46		0.04		0.55	
7	4/10/97	230	8.39	8.70	0.13	0.13	0.01	0.00	0.05	0.04	0.16	228.56	224.50	0.00	0.00	0.35	0.30
7	4/9/97	231	6.99	7.44	0.12	0.22	0.02	0.01	0.03	0.03	0.18	209.02	208.25	0.10	0.08	0.22	0.27
7	4/9/97	232	11.09		0.14		0.01		0.07		0.16	230.81		1.01		3.08	
7	4/9/97	233	9.13	8.64	0.13	0.17	0.00	0.00	0.03	0.04	0.07	206.25	208.98	0.05	0.01	0.40	0.51
7	4/9/97	234	9.79	8.93	0.16	0.17	0.01	0.00	0.02	0.02	0.01	198.60	200.71	0.33	0.24	0.05	0.08
7	4/3/97	235	22.91		0.13		0.00		0.06		0.21	325.10		0.99		1.37	
7	4/3/97	236	18.46	15.21	0.15	0.14	0.01	0.02	0.03	0.03	0.15	269.40	278.10	0.25	0.36	0.29	0.11
7	4/3/97	237	13.12	11.74	0.17	0.15	0.02	0.01	0.03	0.02	0.14		239.79	0.50	0.14	0.00	0.00
7	4/3/97	238	22.33		0.15		0.03		0.05		0.20	372.75		3.51		1.36	
7	4/3/97	239	9.60	8.44	0.14	0.15	0.01	0.01	0.02	0.02	0.16	237.15	241.67	0.04	0.04	0.07	0.04
7	4/3/97	240	8.08	7.61	0.16	0.13	0.00	0.01	0.02	0.03	0.15	218.04	218.77	0.19	0.30	0.01	0.01
7	4/3/97	241	12.99		0.18		0.01		0.05		0.16	290.94		5.86		1.47	
7	4/3/97	242	11.47	10.55	0.15	0.17	0.01	0.01	0.03	0.03	0.19	217.52	225.67	0.67	1.32	1.10	0.76
7	4/3/97	243	9.32	9.76	0.15	0.14	0.01	0.02	0.03	0.03	0.17	199.77	197.46	0.81	1.22	0.33	0.32
7	4/3/97	244	11.46	11.17	0.17	0.14	0.00	0.00	0.04	0.03	0.18	210.94	217.42	1.09	1.08	0.80	0.75
7	4/3/97	245	8.92	7.14	0.16	0.16	0.01	0.00	0.03	0.03	0.18	198.33	199.50	0.01	0.24	0.34	0.59
7	4/3/97	246	8.68	8.46	0.17	0.15	0.01	0.00	0.03	0.03	0.18	191.35	195.48	0.64	0.22	0.18	0.25
7	4/2/97	247	15.02	14.95	0.19	0.19	0.00	0.02	0.05	0.05	0.30	266.29	263.06	15.32	12.83	1.05	1.36
7	4/3/97	248	11.89	11.70	0.22	0.23	0.02	0.00	0.05	0.06	0.30	230.38	229.79	5.92	4.29	1.37	1.36
7	4/3/97	249	9.03	7.52	0.19	0.20	0.01	0.01	0.02	0.02	0.13	279.21	261.67	1.00	1.13	0.26	0.25
7	4/2/97	250	24.10		0.15		0.02		0.04		0.28	348.42		3.92		1.40	
7	4/2/97	251	11.03	11.45	0.16	0.20	0.00	0.00	0.05	0.04	0.24	296.17	293.21	3.54	4.01	0.82	0.80
7	4/2/97	252	10.46	11.98	0.21	0.20	0.00	0.00	0.03	0.03	0.26	206.46	202.50	0.92		0.54	0.27
7	4/2/97	253	22.34		0.22		0.00		0.04		0.18	338.33		2.72		0.95	

SURV	DATE	STA	SAL-S	SAL-B	TEMP-S	TEMP-B	DO-S	DO-B	Kd	TN:TP	%SAT_S	%SAT_B
7	5/2/97	213	37.80	37.80	24.40	24.40	7.90	7.90		29.12	116.44	116.44
7	5/2/97	214	37.80	37.80	24.40	24.40	7.90	7.90		57.29	116.44	116.44
7	5/2/97	215	37.80	37.80	24.40	24.40	7.90	7.90		49.97	116.44	116.44
7	5/2/97	216	37.80	37.80	24.40	24.40	7.90	7.90		41.24	116.44	116.44
7	4/10/97	217	37.20	37.30	25.50	25.60	6.10	6.00	0.309	131.84	90.62	89.28
7	4/10/97	218	36.20	36.20	25.90	25.90	6.60	6.60	0.145	90.09	97.81	97.81
7	4/10/97	219	36.20	36.30	25.30	24.40	6.30	6.30	0.065	69.42	92.80	91.96
7	4/10/97	220	36.80	36.80	25.50	25.50	6.70	6.70	0.230	75.54	99.28	99.28
7	4/10/97	221	36.50	36.50	25.50	25.50	6.80	6.80	0.219	71.37	100.56	100.56
7	4/10/97	222	36.20	36.20	25.30	25.20	6.40	6.40	0.084	57.35	94.27	94.17
7	4/10/97	223	36.60	36.60	25.40	25.50	6.80	6.80	0.314	52.88	100.52	100.63
7	4/10/97	224	36.40	36.40	25.50	25.50	6.60	6.60	0.208	59.79	97.54	97.54
7	4/10/97	225	36.20	36.20	25.50	25.40	6.30	6.20	0.053	53.08	92.99	91.42
7	4/10/97	226	37.00	37.00	25.70	25.70	6.00	6.00	0.301	90.53	89.20	89.20
7	4/10/97	227	36.50	36.40	25.70	25.70	6.80	6.80	0.161	71.83	100.77	100.70
7	4/10/97	228	36.30	36.30	25.10	25.10	6.10	6.10	0.090	64.38	89.72	89.72
7	4/10/97	229	37.00	37.00	25.90	25.90	5.90	5.90	0.279	95.64	87.89	87.89
7	4/10/97	230	36.60	36.60	25.60	25.60	6.20	6.30	0.182	66.44	91.84	93.32
7	4/9/97	231	36.30	36.30	25.90	25.50	6.50	6.80	0.377	61.13	96.39	100.43
7	4/9/97	232	36.70	36.70	28.10	28.10	8.20	8.40		81.43	124.39	127.42
7	4/9/97	233	36.40	36.50	26.10	25.80	7.20	7.90	0.075	69.33	107.05	117.19
7	4/9/97	234	36.20	36.30	26.00	24.70	6.40	6.60	0.073	63.22	94.94	96.66
7	4/3/97	235	37.40	37.40	24.40	24.40	6.60	6.60	0.428	176.58	97.03	97.03
7	4/3/97	236	36.60	36.60	25.30	25.30	6.80	6.90	0.801	128.05	100.42	101.90
7	4/3/97	237	36.20	36.20	25.30	25.20	6.50	6.40	0.079	79.49	95.74	94.17
7	4/3/97	238	37.60	37.60	24.70	24.70	6.20	6.20	0.221	151.99	91.57	91.57
7	4/3/97	239	36.40	36.40	24.80	24.80	6.70	6.70	0.166	70.31	98.29	98.29
7	4/3/97	240	36.20	36.20	25.50	25.30	6.40	6.50	0.638	52.41	94.47	95.74
7	4/3/97	241	36.90	36.90	24.60	24.60	7.00	7.10		75.33	102.81	104.27
7	4/3/97	242	36.50	36.50	24.80	24.80	6.80	6.80	0.189	79.29	99.83	99.83
7	4/3/97	243	36.10	36.10	26.00	25.90	6.40	6.30	0.088	66.53	94.88	93.31
7	4/3/97	244	36.50	36.50	24.90	24.90	6.80	6.80	0.221	72.15	99.93	99.93
7	4/3/97	245	36.40	36.40	24.90	24.90	6.70	6.70	0.239	60.00	98.40	98.40
7	4/3/97	246	36.30	36.40	25.70	25.00	6.30	6.60	0.164	54.88	93.24	97.04
7	4/2/97	247	37.60	37.60	24.70	24.70	6.20	6.20	0.406	79.33	91.57	91.57
7	4/3/97	248	36.80	36.90	26.10	26.30	6.50	6.70	0.109	56.13	96.89	100.13
7	4/3/97	249	36.10	36.20	26.20	25.90	6.30	6.50	0.142	49.33	93.58	96.33
7	4/2/97	250	37.30	37.30	26.40	26.40	7.00	7.00	0.365	160.73	104.98	104.98
7	4/2/97	251	36.60	36.60	26.20	26.20	6.50	6.50	0.154	69.40	96.86	96.86
7	4/2/97	252	36.40	36.40	25.80	25.90	6.30	6.30	0.143	52.83	93.39	93.49
7	4/2/97	253	37.00	37.00	26.70	26.70	8.30	8.40		104.60	124.59	126.10

SURV	DATE	STA	LATDEC	LONDEC	NOX-S	NOX-B	NO3-S	NO3-B	NO2-S	NO2-B	NH4-S	NH4-B	TN-S	TN-B	TIN-S	TIN-B
7	4/2/97	254	24.65792	-81.26502	0.02		0.00		0.02		0.28		18.49		0.30	
7	4/2/97	255	24.62168	-81.24308	0.03	0.15	0.00	0.12	0.03	0.04	0.45	0.35	15.22	13.38	0.47	0.50
7	4/2/97	256	24.58497	-81.23408	0.19	0.04	0.17	0.04	0.02	0.00	0.43	0.15	11.75	11.00	0.62	0.19
7	4/2/97	257	24.63333	-81.33732	0.21		0.15		0.06		0.39		13.58		0.59	
7	4/2/97	258	24.59323	-81.32422	0.24	0.29	0.19	0.25	0.05	0.05	0.22	0.18	12.31	9.76	0.47	0.47
7	4/2/97	259	24.57037	-81.32167	0.28	0.42	0.21	0.35	0.07	0.07	0.42	0.32	5.17	7.89	0.69	0.73
7	4/2/97	260	24.62550	-81.41662	0.18		0.08		0.10		0.29		14.45		0.46	
7	4/2/97	261	24.58333	-81.50000	0.09	0.28	0.02	0.23	0.07	0.05	0.37	0.35	13.16	12.38	0.46	0.63
7	4/2/97	262	24.58618	-81.41887	0.17	0.19	0.10	0.14	0.07	0.06	0.47	0.31	15.20	14.19	0.64	0.50
7	4/2/97	263	24.54843	-81.39742	0.02	0.22	0.00	0.20	0.02	0.02	0.31	0.40	8.80	9.79	0.32	0.62
7	4/10/97	264	24.94677	-80.45947	0.02	0.11	0.01	0.09	0.01	0.03	0.20	0.22	9.41	9.58	0.22	0.33
7	4/4/97	265	24.81667	-81.08333	0.02		0.00		0.02		0.15		23.90		0.18	
7	4/2/97	266	24.61105	-81.50527	0.08		0.01		0.07		0.25		15.75		0.33	
7	4/2/97	267	24.53008	-81.48730	0.04	0.09	0.00	0.05	0.04	0.04	0.25	0.27	9.02	7.85	0.28	0.36
7	4/8/97	268	24.58782	-81.57698	0.12	0.08	0.09	0.08	0.02	0.00	0.20	0.04	11.20	12.35	0.32	0.11
7	4/8/97	269	24.55943	-81.55955	0.13	0.09	0.10	0.06	0.02	0.03	0.08	0.35	10.35	12.41	0.20	0.43
7	4/8/97	270	24.52162	-81.56432	0.08	0.06	0.05	0.02	0.03	0.04	0.17	0.23	10.23	8.87	0.24	0.29
7	4/8/97	271	24.55667	-81.66667	0.07	0.06	0.05	0.02	0.02	0.05	0.13	0.16	9.77	10.34	0.21	0.22
7	4/8/97	272	24.50548	-81.65433	0.04	0.05	0.00	0.00	0.04	0.05	0.22	0.31	10.17	8.51	0.27	0.35
7	4/8/97	273	24.49103	-81.65048	0.07	0.41	0.03	0.39	0.04	0.02	0.27	0.28	7.56	7.42	0.33	0.68
7	4/8/97	274	24.54167	-81.75000	0.06	0.09	0.05	0.07	0.01	0.02	0.15	0.20	8.89	9.00	0.21	0.28
7	4/8/97	275	24.52143	-81.74422	0.05	0.05	0.01	0.01	0.03	0.04	0.28	0.29	11.01	10.89	0.33	0.34
7	4/8/97	276	24.47538	-81.73742	0.04	0.05	0.01	0.00	0.03	0.05	0.20	0.25	9.68	10.15	0.24	0.30
7	4/8/97	277	24.51762	-81.82110	0.16	0.20	0.10	0.13	0.06	0.07	0.20	0.23	12.93	12.08	0.36	0.43
7	4/8/97	278	24.49862	-81.81895	0.02	0.11	0.00	0.05	0.02	0.06	0.11	0.16	8.97	11.96	0.13	0.26
7	4/8/97	279	24.45803	-81.81297	0.03	0.02	0.00	0.00	0.03	0.02	0.16	0.11	9.13	9.50	0.18	0.13
7	4/8/97	280	24.45363	-81.84365	0.01	0.07	0.00	0.05	0.01	0.03	0.15	0.21	8.21	7.88	0.16	0.28
7	3/11/97	281	24.49500	-81.89167	0.30	0.29	0.25	0.23	0.05	0.06	0.69	0.50	25.92	16.10	1.00	0.79
7	4/4/97	282	24.86667	-80.88500	0.11		0.05		0.06		0.42		32.63		0.53	
7	4/4/97	283	24.90000	-81.00000	0.05		0.01		0.05		0.33		21.85		0.38	
7	4/4/97	284	24.87667	-80.95833	0.06		0.00		0.06		0.24		22.34		0.30	
7	4/4/97	285	24.80998	-80.92028	0.02		0.00		0.02		0.14		15.81		0.16	
7	4/4/97	286	24.78333	-80.92395	0.24		0.21		0.04		0.30		22.09		0.55	
7	4/4/97	287	24.84667	-81.00833	0.06		0.05		0.01		0.11		22.84		0.17	
7	4/4/97	288	24.88333	-81.08333	0.12		0.08		0.04		0.24		18.72		0.36	
7	4/4/97	289	24.77775	-81.03300	0.14		0.07		0.08		0.43		16.91		0.57	
7	4/4/97	290	24.86267	-81.21623	0.13		0.11		0.02		0.08		18.24		0.21	
7	4/4/97	291	24.81682	-81.14678	0.11		0.08		0.03		0.34		16.93		0.45	
7	4/4/97	292	24.76312	-81.11248	0.04		0.00		0.04		0.27		12.29		0.30	
7	4/4/97	293	24.73753	-81.10930	0.05		0.01		0.04		0.21		12.12		0.26	
7	4/4/97	294	24.75550	-81.17218	0.03		0.01		0.02		0.24		16.00		0.27	

SURV	DATE	STA	TON-S	TON-B	TP-S	TP-B	SRP-S	SRP-B	APA-S	APA-B	CHLA	TOC-S	TOC-B	SIO4-S	SIO4-B	TURB-S	TURB-B
7	4/2/97	254	18.20		0.24		0.03		0.08		0.33	352.25		3.49		0.62	
7	4/2/97	255	14.75	12.89	0.18	0.18	0.01	0.02	0.06	0.04	0.36	312.96	309.42	2.71	3.05	0.46	0.77
7	4/2/97	256	11.13	10.81	0.17	0.17	0.00	0.00	0.04	0.03	0.22	282.46	276.06	0.60	1.09	0.25	0.13
7	4/2/97	257	12.99		0.24		0.00		0.04		0.19	270.56		2.11		1.06	
7	4/2/97	258	11.85	9.29	0.21	0.21	0.00	0.00	0.06	0.07	0.58	233.31	242.50	4.48	4.46	0.82	0.68
7	4/2/97	259	4.48	7.16	0.17	0.18	0.01	0.00	0.04	0.04	0.26	232.73	239.58	2.78	2.86	0.09	0.40
7	4/2/97	260	13.99		0.19		0.00		0.06		0.32	236.58		1.86		0.46	
7	4/2/97	261	12.71	11.75	0.17	0.17	0.00	0.01	0.06	0.07	0.18	235.48	238.75	0.02	0.16	0.75	1.25
7	4/2/97	262	14.56	13.69	0.17	0.18	0.01	0.01	0.04	0.04	0.26	278.02	265.58	1.69	1.63	0.23	0.40
7	4/2/97	263	8.48	9.18	0.13	0.16	0.01	0.00	0.02	0.12	0.13	193.73	212.27	0.13	0.00	0.05	0.70
7	4/10/97	264	9.19	9.24	0.11	0.11	0.00	0.00	0.03	0.04	0.13	196.19	197.73	0.02	0.01	0.04	0.06
7	4/4/97	265	23.72		0.19		0.05		0.05		0.17	283.29		11.28		0.55	
7	4/2/97	266	15.42		0.16		0.01		0.10		0.17	297.90		1.10		0.95	
7	4/2/97	267	8.74	7.49	0.13	0.14	0.00	0.00	0.02	0.02	0.10	199.35	191.83	0.07	0.00	0.13	0.07
7	4/8/97	268	10.89	12.24	0.19	0.17	0.02	0.01	0.07	0.07	0.21	206.65	215.29	1.94	1.90	1.05	0.65
7	4/8/97	269	10.15	11.98	0.17	0.20	0.01	0.00	0.07	0.11	0.11	215.35	241.71	1.10	3.28	1.25	2.35
7	4/8/97	270	9.99	8.58	0.21	0.16	0.01	0.00	0.11	0.07	0.18	229.21	212.54	0.56	2.06	1.50	0.95
7	4/8/97	271	9.56	10.12	0.15	0.16	0.00	0.00	0.06	0.07	0.29	227.17	237.48	1.61	1.91	1.00	0.90
7	4/8/97	272	9.90	8.16	0.16	0.19	0.01	0.03	0.06	0.06	0.32	216.13	227.13	0.69	1.40	0.45	0.80
7	4/8/97	273	7.23	6.74	0.17	0.15	0.01	0.01	0.05	0.03	0.32	219.79	211.38	0.21	0.20	0.20	0.20
7	4/8/97	274	8.68	8.72	0.19	0.22	0.00	0.00	0.07	0.08	0.23	240.17	240.48	1.81	1.71	1.00	1.00
7	4/8/97	275	10.68	10.55	0.17	0.13	0.01	0.00	0.05	0.08	0.22	217.44	222.04	1.10	1.81	0.65	0.85
7	4/8/97	276	9.44	9.86	0.17	0.16	0.01	0.00	0.06	0.07	0.42	194.79	207.92	0.01		0.25	0.70
7	4/8/97	277	12.58	11.65	0.20	0.18	0.00	0.00	0.10	0.09	0.38	303.63	307.44	2.56	1.90	1.70	2.15
7	4/8/97	278	8.84	11.70	0.17	0.20	0.01	0.02	0.06	0.10	0.30	276.81	304.75	0.94	2.21	0.70	1.35
7	4/8/97	279	8.95	9.37	0.14	0.14	0.00	0.00	0.04	0.03	0.11	257.29	259.88	0.33	0.50	0.00	0.15
7	4/8/97	280	8.05	7.61	0.12	0.13	0.01	0.01	0.04	0.06	0.06	258.90	255.63	0.23	0.57	0.00	0.50
7	3/11/97	281	24.93	15.31	0.22	0.21	0.04	0.02	0.84	0.13	0.47	300.48	288.73	1.64	1.64	3.50	2.10
7	4/4/97	282	32.10		0.27		0.00		0.04		0.15	391.15		12.50		1.95	
7	4/4/97	283	21.47		0.25		0.01		0.04		0.18	321.21		5.14		0.90	
7	4/4/97	284	22.04		0.25		0.03		0.04		0.10	328.23		11.33		0.45	
7	4/4/97	285	15.65		0.19		0.01		0.04		0.16	258.42		1.67		1.50	
7	4/4/97	286	21.55		0.21		0.00		0.04		0.20	329.60		5.62		2.00	
7	4/4/97	287	22.67		0.23		0.00		0.06		0.13	387.54		3.91		0.45	
7	4/4/97	288	18.35		0.25		0.00		0.04		0.11	308.56		23.53		1.00	
7	4/4/97	289	16.35		0.19		0.00		0.06		0.21	317.63		16.09		1.20	
7	4/4/97	290	18.04		0.30		0.01		0.03		0.30	297.92		5.15		1.35	
7	4/4/97	291	16.48		0.26		0.03		0.04		0.17	329.90		8.66		0.70	
7	4/4/97	292	11.98		0.21		0.02		0.05		0.24	259.94		0.91		0.95	
7	4/4/97	293	11.87		0.19		0.02		0.04		0.75	266.73		2.70		1.00	
7	4/4/97	294	15.74		0.21		0.01		0.03		0.18	274.75		2.23		0.55	

SURV	DATE	STA	SAL-S	SAL-B	TEMP-S	TEMP-B	DO-S	DO-B	Kd	TN:TP	%SAT_S	%SAT_B
7	4/2/97	254	37.10	37.10	26.10	26.10	7.10	7.00	0.287	77.06	106.04	104.55
7	4/2/97	255	36.70	36.70	26.50	26.50	6.50	6.50	0.129	85.76	97.20	97.20
7	4/2/97	256	36.40	36.50	25.90	25.80	6.30	6.20	0.167	71.22	93.49	91.97
7	4/2/97	257	37.50	37.50	26.10	26.10	8.10	8.10		57.81	121.28	121.28
7	4/2/97	258	36.90	36.90	26.70	26.60	6.30	6.30	0.227	58.64	94.51	94.42
7	4/2/97	259	36.80	36.80	26.40	26.50	6.30	6.20	0.443	31.36	94.18	92.78
7	4/2/97	260	37.10	37.10	26.40	26.40	7.10	7.10	0.562	75.08	106.35	106.35
7	4/2/97	261	36.90	37.10	26.20	26.40	6.70	7.10	0.305	79.79	100.03	106.35
7	4/2/97	262	37.30	37.30	26.90	26.90	6.60	6.60	0.194	89.40	99.45	99.45
7	4/2/97	263	36.20	36.60	25.50	25.70	6.50	6.70	0.094	70.40	95.94	99.35
7	4/10/97	264	36.20	36.20	25.40	25.30	6.30	6.30	0.054	89.65	92.89	92.80
7	4/4/97	265	38.00	38.00	24.20	24.20	7.30	7.30	0.457	127.45	107.50	107.50
7	4/2/97	266	37.90	37.90	25.40	25.20	6.70	6.80	0.535	101.63	99.88	101.16
7	4/2/97	267	36.10	36.20	25.60	25.50	6.30	6.50	0.229	68.05	93.02	95.94
7	4/8/97	268	36.60	36.60	25.70	25.70	6.80	6.90	0.313	60.57	100.83	102.32
7	4/8/97	269	36.50	37.30	25.60	25.30	6.20	6.10	0.254	62.75	91.78	90.49
7	4/8/97	270	36.30	36.50	25.60	25.40	6.30	6.10	0.207	49.90	93.14	90.12
7	4/8/97	271	36.60	36.70	26.30	26.30	6.40	7.00	0.095	64.06	95.46	104.48
7	4/8/97	272	36.40	36.80	25.70	25.30	6.20	6.40	0.197	63.56	91.82	94.63
7	4/8/97	273	36.30	36.30	25.70	25.40	6.40	6.30	0.133	43.82	94.72	92.95
7	4/8/97	274	36.90	37.10	26.60	26.70	7.10	7.90	0.119	46.18	106.41	118.67
7	4/8/97	275	36.50	37.90	26.00	26.00	6.30	6.90	0.160	65.72	93.64	103.48
7	4/8/97	276	36.30	36.50	25.70	25.50	6.30	6.30	0.121	58.65	93.24	93.17
7	4/8/97	277	36.90	36.90	25.90	25.70	6.60	6.50	0.252	66.33	98.25	96.57
7	4/8/97	278	36.50	37.00	25.90	25.40	6.30	6.20	0.121	52.75	93.55	91.89
7	4/8/97	279	36.30	36.60	25.50	23.80	6.40	6.10	0.123	67.62	94.53	88.62
7	4/8/97	280	36.30	36.40	25.60	25.10	6.40	6.10	0.093	69.87	94.62	89.78
7	3/11/97	281	36.60	36.70	25.30	25.30	6.30	6.20	0.316	116.51	93.04	91.62
7	4/4/97	282	36.90	36.90	24.20	24.20	7.80	7.80	0.434	123.14	114.05	114.05
7	4/4/97	283	36.60	36.60	24.10	24.10	7.80	8.10	0.597	86.55	113.70	118.07
7	4/4/97	284	37.00	37.00	23.80	23.80	8.70	8.70		90.26	126.72	126.72
7	4/4/97	285	37.10	37.10	24.80	24.80	7.30	7.30		84.35	107.58	107.58
7	4/4/97	286	37.50	37.50	24.70	24.70	6.90	6.90	0.824	107.77	101.84	101.84
7	4/4/97	287	36.70	36.70	23.70	23.70	8.10	8.30	0.336	101.50	117.61	120.52
7	4/4/97	288	37.10	37.10	24.00	24.00	7.70	7.80	0.579	74.86	112.48	113.94
7	4/4/97	289	38.10	38.10	23.40	23.40	6.40	6.40	0.021	87.86	93.45	93.45
7	4/4/97	290	37.20	37.20	24.00	24.00	7.10	7.20	0.421	61.84	103.78	105.24
7	4/4/97	291	37.60	37.60	23.80	23.80	6.70	6.80	0.234	65.74	97.97	99.43
7	4/4/97	292	37.50	37.50	23.80	23.80	6.50	6.50		57.82	94.98	94.98
7	4/4/97	293	37.20	37.20	24.60	24.60	6.40	6.50	0.506	63.81	94.18	95.65
7	4/4/97	294	37.60	37.60	24.10	24.10	6.70	6.70	0.300	77.12	98.30	98.30

SURV	DATE	STA	LATDEC	LONDEC	NOX-S	NOX-B	NO3-S	NO3-B	NO2-S	NO2-B	NH4-S	NH4-B	TN-S	TN-B	TIN-S	TIN-B
7	4/4/97	295	24.85163	-81.35123	0.05		0.04		0.02		0.15		13.63		0.20	
7	4/4/97	296	24.79152	-81.28908	0.03		0.00		0.03		0.30		15.16		0.34	
7	4/4/97	297	24.74077	-81.21118	0.05		0.02		0.04		0.19		15.30		0.24	
7	2/18/97	298	24.84085	-81.43112	0.03		0.00		0.03		0.21		20.02		0.24	
7	2/18/97	299	24.68737	-81.34182	0.24		0.19		0.05		0.36		18.03		0.60	
7	2/18/97	300	24.70882	-81.30923	0.11		0.08		0.03		0.16		20.02		0.27	
7	2/18/97	301	24.77258	-81.39665	0.04		0.01		0.02		0.26		17.74		0.30	
7	2/18/97	302	24.80128	-81.48227	0.04		0.02		0.03		0.27		19.17		0.31	
7	2/18/97	303	24.69242	-81.39198	1.31		1.20		0.11		1.01		25.74		2.32	
7	2/18/97	304	24.71220	-81.45157	0.20		0.13		0.07		0.39		20.06		0.59	
7	2/18/97	305	24.76852	-81.55500	0.06		0.02		0.04		0.25		18.68		0.31	
7	2/18/97	306	24.73770	-81.59247	0.10		0.06		0.03		0.27		20.01		0.36	
7	2/18/97	307	24.72503	-81.52052	0.11		0.09		0.03		0.22		21.45		0.34	
7	2/18/97	308	24.69430	-81.48820	0.12		0.07		0.05		0.34		25.09		0.46	
7	2/19/97	309	24.69772	-81.68318	0.04		0.02		0.02		0.21		21.80		0.26	
7	2/19/97	310	24.65752	-81.63265	0.12		0.10		0.02		0.19		20.78		0.31	
7	2/19/97	311	24.61762	-81.65008	0.31		0.26		0.05		0.38		21.29		0.68	
7	2/19/97	312	24.65978	-81.76343	0.04		0.01		0.03		0.18		22.02		0.22	
7	2/19/97	313	24.64157	-81.73210	0.03		0.00		0.03		0.37		18.12		0.39	
7	2/19/97	314	24.75043	-81.43578	0.04		0.00		0.04		0.34		19.70		0.38	
7	2/19/97	315	24.63325	-81.82827	0.05		0.00		0.05		0.33		16.75		0.38	
7	2/19/97	316	24.58577	-81.80240	0.22		0.17		0.05		0.23		16.46		0.45	
7	2/19/97	317	24.57500	-81.78833	0.22		0.18		0.04		0.34		19.66		0.56	
7	3/12/97	318	24.65083	-81.90467	0.01	0.02	0.00	0.01	0.01	0.01	0.40	0.35	15.89	15.04	0.41	0.36
7	3/12/97	319	24.62900	-82.07133	0.10	0.09	0.06	0.05	0.05	0.05	0.34	0.40	15.92	14.88	0.45	0.49
7	3/11/97	320	24.65167	-82.96667	0.17	0.11	0.14	0.07	0.02	0.04	0.55	0.36	12.49	9.74	0.71	0.48
7	3/11/97	321	24.64167	-82.94000	0.25	0.27	0.19	0.19	0.07	0.07	0.32	0.40	10.92	19.49	0.58	0.67
7	3/11/97	322	24.45833	-81.98167	0.25	0.08	0.20	0.00	0.05	0.08	0.85	0.46	9.87	9.23	1.09	0.54
7	3/12/97	323	24.70500	-82.17000	0.05	0.04	0.00	0.00	0.05	0.04	0.45	0.27	11.89	12.35	0.49	0.30
7	3/12/97	324	24.65333	-82.15833	0.30	0.28	0.22	0.22	0.08	0.06	0.40	0.33	13.97	12.81	0.70	0.61
7	3/11/97	325	24.54167	-82.10000	0.05	0.08	0.00	0.03	0.05	0.04	0.74	0.27	13.63	11.29	0.79	0.35
7	3/12/97	326	24.70833	-82.25000	0.05	0.05	0.00	0.00	0.05	0.05	0.58	0.29	14.97	12.16	0.62	0.34
7	3/12/97	327	24.61667	-82.22333	0.19	0.28	0.13	0.19	0.06	0.09	0.48	0.47	14.19	13.36	0.67	0.75
7	3/11/97	328	24.45400	-82.22400	0.03	0.24	0.01	0.22	0.02	0.03	0.32	0.26	9.99	10.04	0.35	0.50
7	3/12/97	329	24.71667	-82.54167	0.14	0.17	0.12	0.14	0.02	0.03	0.38	0.42	13.16	9.90	0.52	0.58
7	3/12/97	330	24.66533	-82.37400	0.39	0.11	0.36	0.08	0.04	0.04	0.57	0.24	12.47	11.52	0.96	0.35
7	3/11/97	331	24.50683	-82.28767	0.06	0.14	0.05	0.12	0.01	0.03	0.56	0.27	16.64	12.58	0.62	0.41
7	3/11/97	332	24.53550	-82.36733	0.22	0.18	0.18	0.14	0.04	0.04	0.87	0.29	17.53	11.28	1.09	0.47
7	3/12/97	333	24.57717	-82.49133	0.11	0.08	0.11	0.06	0.00	0.01	0.25	0.23	14.05	10.41	0.36	0.31
7	3/11/97	334	24.51217	-82.45033	0.06	0.06	0.05	0.03	0.01	0.03	0.41	0.26	12.03	10.54	0.47	0.33
7	3/11/97	335	24.46083	-82.38317	0.15	0.09	0.11	0.07	0.04	0.02	0.67	0.26	14.32	10.48	0.81	0.35

SURV	DATE	STA	TON-S	TON-B	TP-S	TP-B	SRP-S	SRP-B	APA-S	APA-B	CHLA	TOC-S	TOC-B	SIO4-S	SIO4-B	TURB-S	TURB-B
7	4/4/97	295	13.43		0.26		0.03		0.02		0.27	286.67		2.13		1.05	
7	4/4/97	296	14.83		0.21		0.02		0.05		0.11	325.67		2.92		0.35	
7	4/4/97	297	15.06		0.26		0.00		0.05		0.20	360.54		1.43		0.50	
7	2/18/97	298	19.78		0.40		0.04		0.06		0.73	260.27		5.92		11.35	
7	2/18/97	299	17.43		0.25		0.00		0.05		0.21	252.27		1.85		1.28	
7	2/18/97	300	19.75		0.27		0.01		0.04		0.25	248.10		4.37		1.35	
7	2/18/97	301	17.45		0.24		0.06		0.07		0.18	250.25		4.26		1.03	
7	2/18/97	302	18.86		0.37		0.04		0.05		0.31	245.54		2.91		2.17	
7	2/18/97	303	23.43		0.20		0.05		0.12		0.16	301.35		2.89		0.59	
7	2/18/97	304	19.47		0.20		0.11		0.07		0.19	253.42				1.42	
7	2/18/97	305	18.36		0.26		0.00		0.11		0.50	231.27		2.39		3.67	
7	2/18/97	306	19.65		0.31		0.02		0.06		0.23	243.79		2.64		2.25	
7	2/18/97	307	21.12		0.27		0.01		0.07		0.23	261.58		1.58		4.00	
7	2/18/97	308	24.63		0.23		0.04		0.09		0.24	263.25				1.99	
7	2/19/97	309	21.54		0.33		0.06		0.05		0.76	225.04		0.87		2.04	
7	2/19/97	310	20.47		0.23		0.00		0.10		0.26	265.73		0.53		4.25	
7	2/19/97	311	20.61		0.17		0.05		0.07		0.14	262.29		0.28		2.76	
7	2/19/97	312	21.80		0.31		0.05		0.03		0.76	231.65		1.01		4.62	
7	2/19/97	313	17.73		0.32		0.05		0.07		0.42	235.75		1.70		5.60	
7	2/19/97	314	19.32		0.26		0.02		0.13		0.30	234.00		3.56		1.80	
7	2/19/97	315	16.38		0.29		0.00		0.05		0.42	204.33		1.14		1.40	
7	2/19/97	316	16.01		0.21		0.00		0.05		0.27	200.40		1.11		1.35	
7	2/19/97	317	19.10		0.21		0.00		0.06		0.13	219.96				0.87	
7	3/12/97	318	15.49	14.68	0.27	0.28	0.01	0.00	0.03	0.04	0.41	299.56	297.98	0.04	0.03	0.50	0.55
7	3/12/97	319	15.48	14.39	0.27	0.26	0.00	0.00	0.03	0.03	0.59	296.60	285.13	0.18	0.08	0.75	0.50
7	3/11/97	320	11.78	9.26	0.19	0.20	0.01	0.01	0.19	0.03	0.47	252.33	241.73	0.00	0.32	0.80	0.35
7	3/11/97	321	10.34	18.83	0.20	0.19	0.05	0.01	0.04	0.03	0.48	245.17	231.23	0.37	0.25	1.08	0.23
7	3/11/97	322	8.78	8.69	0.29	0.19	0.03	0.02	0.11	0.09	0.38	259.17	242.88	1.05	1.14	3.20	1.35
7	3/12/97	323	11.39	12.05	0.30	0.28	0.01	0.00	0.03	0.03	0.61	273.60	282.67	1.06	1.38	2.35	1.35
7	3/12/97	324	13.27	12.20	0.34	0.20	0.00	0.02	0.03	0.03	0.56	273.15	272.69	0.08	0.08	0.55	0.45
7	3/11/97	325	12.84	10.94	0.29	0.21	0.01	0.00	0.12	0.09	0.54	244.06	253.85	0.64	0.62	3.00	1.75
7	3/12/97	326	14.35	11.83	0.24	0.28	0.03	0.00	0.03	0.03	0.66	259.81	256.27	1.48	1.63	2.10	1.65
7	3/12/97	327	13.52	12.62	0.28	0.22	0.02	0.00	0.04	0.03	0.59	268.65	266.25	0.23	0.00	0.70	0.45
7	3/11/97	328	9.65	9.55	0.17	0.19	0.01	0.01	0.07	0.04	0.16	229.15	228.06	0.02	0.06	0.00	0.00
7	3/12/97	329	12.64	9.32	0.26	0.22	0.00	0.00	0.05	0.05	0.44	243.73	242.33	0.10	0.04	1.88	1.23
7	3/12/97	330	11.51	11.17	0.27	0.23	0.03	0.00	0.03	0.03	0.66	246.71	241.79	0.35	0.00	3.40	1.33
7	3/11/97	331	16.02	12.18	0.18	0.18	0.03	0.01	0.09	0.06	0.32	235.65	234.65	0.10	0.21	1.60	1.10
7	3/11/97	332	16.44	10.82	0.21	0.21	0.01	0.00	0.08	0.09	0.37	228.63	229.04	0.79	0.86	1.63	1.20
7	3/12/97	333	13.69	10.11	0.24	0.21	0.01	0.00	0.04	0.04	0.25	227.58	227.58	0.31	0.42	2.15	0.68
7	3/11/97	334	11.56	10.21	0.18	0.22	0.02	0.01	0.06	0.04	0.30	225.67	229.46	0.13	0.03	0.58	0.53
7	3/11/97	335	13.51	10.13	0.18	0.22	0.02	0.02	0.05	0.04	0.20	235.79	221.81	0.21	0.09	0.23	0.18

SURV	DATE	STA	SAL-S	SAL-B	TEMP-S	TEMP-B	DO-S	DO-B	Kd	TN:TP	%SAT_S	%SAT_B
7	4/4/97	295	36.70	36.70	23.70	23.70	6.90	6.90	0.377	52.93	100.19	100.19
7	4/4/97	296	37.20	37.20	22.70	22.70	7.40	7.40	0.621	73.97	106.52	106.52
7	4/4/97	297	37.30	37.30	23.90	24.00	6.70	6.80	0.322	60.01	97.89	99.46
7	2/18/97	298	36.50	36.50	22.40	22.40	6.40	6.30	1.443	49.73	91.36	89.93
7	2/18/97	299	36.50	36.50	23.00	23.00	6.40	6.40	0.613	71.41	92.04	92.04
7	2/18/97	300	36.70	36.70	23.20	23.20	6.40	6.30	1.028	75.53	92.38	90.94
7	2/18/97	301	36.50	36.50	22.60	22.60	6.50	6.50	0.768	75.51	93.02	93.02
7	2/18/97	302	36.60	36.60	23.30	23.30	8.00	8.10	0.710	51.82	115.54	116.98
7	2/18/97	303	37.40	37.30	23.50	23.50	6.80	6.80	0.549	127.11	98.96	98.89
7	2/18/97	304	37.30	37.30	24.00	24.00	8.30	8.30	0.570	99.05	121.40	121.40
7	2/18/97	305	36.60	36.60	22.90	22.90	7.20	7.20	0.654	72.53	103.49	103.49
7	2/18/97	306	37.00	37.00	23.30	23.30	6.80	6.80	0.484	64.54	98.47	98.47
7	2/18/97	307	37.20	37.20	23.40	23.40	7.80	7.70	0.982	79.45	113.23	111.78
7	2/18/97	308	37.50	37.50	23.60	23.60	7.90	7.80	0.643	111.53	115.17	113.71
7	2/19/97	309	36.80	36.80	23.20	23.20	6.30	6.40	0.402	66.06	91.00	92.44
7	2/19/97	310	38.10	38.10	24.40	24.40	7.60	7.60		92.37	112.24	112.24
7	2/19/97	311	38.50	38.40	25.00	25.00	7.50	7.40		127.09	111.77	110.21
7	2/19/97	312	36.30	36.30	23.10	23.10	6.90	6.90	0.375	71.60	99.22	99.22
7	2/19/97	313	37.10	37.10	23.90	23.90	7.20	7.20		57.07	105.06	105.06
7	2/19/97	314	36.80	36.80	23.30	23.30	7.40	7.40	0.377	76.50	107.01	107.01
7	2/19/97	315	36.70	36.70	23.70	23.70	7.10	7.10		58.27	103.09	103.09
7	2/19/97	316	36.90	36.90	24.10	24.10	7.10	7.10		80.28	103.70	103.70
7	2/19/97	317	37.50	37.50	23.50	23.50	7.00	7.00		94.74	101.93	101.93
7	3/12/97	318	36.20	36.30	25.10	25.00	6.60	6.60	0.115	59.97	97.01	96.97
7	3/12/97	319	36.50	36.50	25.20	25.20	6.40	6.30	0.109	59.52	94.35	92.88
7	3/11/97	320	36.30	36.30	24.60	24.60	6.40	6.40	0.108	65.74	93.63	93.63
7	3/11/97	321	36.30	36.30	24.70	24.70	6.50	6.30	0.195	53.91	95.20	92.27
7	3/11/97	322	36.30	36.30	25.30	25.30	6.20	6.20	0.193	34.62	91.38	91.38
7	3/12/97	323	36.40	36.40	24.90	24.80	6.50	6.40	0.219	39.62	95.46	93.89
7	3/12/97	324	36.50	36.50	25.10	25.10	6.40	6.40	0.182	41.38	94.25	94.25
7	3/11/97	325	36.60	36.60	25.20	25.20	6.20	6.20	0.360	46.59	91.46	91.46
7	3/12/97	326	36.40	36.40	25.10	25.10	6.30	6.30	0.288	62.37	92.72	92.72
7	3/12/97	327	36.60	36.60	25.20	25.20	6.10	6.00	0.219	51.13	89.99	88.51
7	3/11/97	328	36.20	36.20	25.20	25.00	6.40	6.40	0.091	60.57	94.17	93.97
7	3/12/97	329	36.20	36.20	25.20	25.20	6.30	6.30	0.128	50.13	92.70	92.70
7	3/12/97	330	36.30	36.30	25.30	25.30	6.30	6.30	0.262	47.04	92.86	92.86
7	3/11/97	331	36.30	36.30	25.00	24.90	6.50	6.50	0.148	92.45	95.50	95.40
7	3/11/97	332								85.52	0.00	0.00
7	3/12/97	333	36.30	36.30	25.10	25.10	6.40	6.40	0.162	58.55	94.13	94.13
7	3/11/97	334	36.30	36.30	25.00	24.90	6.50	6.60	0.076	67.77	95.50	96.87
7	3/11/97	335	36.20	36.30	25.20	24.90	6.40	6.50	0.120	81.83	94.17	95.40

SURV	DATE	STA	LATDEC	LONDEC	NOX-S	NOX-B	NO3-S	NO3-B	NO2-S	NO2-B	NH4-S	NH4-B	TN-S	TN-B	TIN-S	TIN-B
7	3/12/97	336	24.65483	-82.64633	0.21	0.22	0.19	0.19	0.03	0.03	0.52	0.30	11.95	7.85	0.73	0.52
7	3/12/97	337	24.59133	-82.58783	0.30	0.40	0.25	0.34	0.05	0.06	0.46	0.42	10.76	8.24	0.76	0.82
7	3/11/97	338	24.63680	-82.87700	0.19	0.12	0.16	0.08	0.03	0.04	0.37	0.31	10.35	7.59	0.56	0.43
7	3/11/97	339	24.42833	-82.51083	0.13	0.14	0.09	0.09	0.04	0.05	0.66	0.41	13.42	10.31	0.78	0.55
7	3/11/97	340	24.48500	-82.65333	0.18	0.38	0.11	0.32	0.07	0.06	0.49	0.06	24.79	9.14	0.67	0.44
7	3/11/97	341	24.69833	-82.88333	0.80	0.61	0.71	0.54	0.08	0.07	0.22	0.01	12.39	8.52	1.02	0.61
7	3/12/97	342	24.70600	-82.74567		0.66		0.60	0.07	0.07	0.22	0.17	11.19	9.60		0.83
7	3/12/97	343	24.75500	-82.85500	0.62	0.16	0.56	0.13	0.06	0.04	0.56	0.27	11.06	8.83	1.18	0.43
7	3/11/97	344	24.56333	-82.80500	0.03	0.07	0.00	0.03	0.03	0.03	0.19	0.19	9.07	8.10	0.22	0.25
7	3/11/97	345	24.37900	-82.70467	0.04	0.74	0.01	0.61	0.03	0.13	0.52	0.54	10.41	9.40	0.56	1.27
7	3/11/97	346	24.66667	-83.00833	0.02	0.13	0.00	0.09	0.02	0.04	0.38	0.17	7.88	8.17	0.40	0.30
7	3/11/97	347	24.65400	-82.99667	0.03	0.11	0.00	0.06	0.03	0.05	0.20	0.29	9.19	8.70	0.23	0.40
7	3/11/97	348	24.64167	-82.85500	0.34		0.31		0.03	0.04	0.64	0.41	12.13	8.54	0.97	
7	3/11/97	349	24.63795	-82.93113	0.37	0.28	0.32	0.24	0.05	0.05	0.33	0.25	10.32	8.83	0.70	0.53
7	3/11/97	350	24.45000	-82.86667	0.02	0.05	0.00	0.02	0.02	0.03	0.45	0.67	9.18	9.50	0.46	0.71
8	6/18/97	200	25.59000	-80.10000	0.07	0.07	0.00	0.00	0.07	0.07	0.28	0.32	9.97	8.67	0.34	0.39
8	6/18/97	201	25.51000	-80.16500	0.11		0.04		0.08		0.34		10.29		0.45	
8	6/18/97	202	25.49380	-80.15010	0.08	0.16	0.03	0.07	0.05	0.09	0.22	0.41	9.17	12.48	0.30	0.57
8	6/18/97	203	25.48053	-80.11768	0.25		0.18		0.08		0.20		9.23		0.45	
8	6/18/97	204	25.43082	-80.19553	0.31		0.21		0.10		0.50		11.75		0.81	
8	6/18/97	205	25.42798	-80.18200	0.17	0.21	0.06	0.08	0.11	0.13	0.75	0.60	10.15	9.70	0.92	0.81
8	6/18/97	206	25.41497	-80.14300	0.20	0.15	0.05	0.09	0.14	0.06	0.32	0.29	7.58	7.66	0.52	0.44
8	6/18/97	207	25.36443	-80.21508	0.55		0.44		0.11		0.46		12.55		1.00	
8	6/18/97	208	25.35918	-80.20052	0.12	0.12	0.06	0.07	0.07	0.05	0.25	0.27	9.02	9.90	0.37	0.39
8	6/18/97	209	24.58570	-81.72272	2.25		2.11		0.14		1.09		21.55		3.33	
8	6/18/97	210	25.32500	-80.16360	0.07	0.03	0.01	0.00	0.06	0.03	0.24	0.15	9.11	8.67	0.31	0.18
8	6/18/97	211	25.30788	-80.26165	0.10		0.02		0.09		0.35		13.67		0.45	
8	6/18/97	212	25.29452	-80.24542	0.07	0.17	0.00	0.09	0.07	0.08	0.34	0.52	11.78	11.53	0.40	0.69
8	6/18/97	213	25.26312	-80.18773	0.14	0.15	0.08	0.08	0.06	0.07	0.31	0.46	9.43	8.76	0.44	0.62
8	6/18/97	214	25.24620	-80.29918	0.44		0.32		0.13		0.52		12.29		0.96	
8	6/18/97	215	25.23667	-80.28897	0.10		0.08		0.02		0.16		9.65		0.25	
8	6/18/97	216	25.20450	-80.24425	0.04	0.09	0.01	0.06	0.03	0.04	0.04	0.09	8.92	8.41	0.07	0.18
8	6/18/97	217	25.17332	-80.33985	0.14		0.10		0.04		0.21		13.64		0.36	
8	6/18/97	218	25.15897	-80.29455	0.06	0.45	0.03	0.41	0.03	0.05	0.33	0.30	9.38	9.04	0.39	0.75
8	6/18/97	219	25.12587	-80.26477	0.39	0.47	0.36	0.44	0.03	0.04	0.28	0.24	9.76	9.99	0.66	0.71
8	6/18/97	220	25.11355	-80.37342	0.12	0.15	0.07	0.10	0.05	0.05	0.32	0.28	16.83	15.17	0.44	0.42
8	6/18/97	221	25.11025	-80.36088	0.18	0.22	0.14	0.18	0.04	0.04	0.24	0.20	15.19	28.62	0.41	0.42
8	6/18/97	222	25.07237	-80.31277	0.19	0.70	0.15	0.63	0.04	0.08	0.26	0.43	9.91	10.45	0.45	1.13
8	6/17/97	223	25.06018	-80.42312	0.23		0.20		0.03		0.30		21.11		0.53	
8	6/17/97	224	25.03082	-80.39527	0.44		0.39		0.05		0.24		10.91		0.67	
8	6/17/97	225	25.00667	-80.37000	0.41	0.56	0.37	0.51	0.04	0.05	0.12	0.11	9.89	8.16	0.53	0.68

SURV	DATE	STA	TON-S	TON-B	TP-S	TP-B	SRP-S	SRP-B	APA-S	APA-B	CHLA	TOC-S	TOC-B	SIO4-S	SIO4-B	TURB-S	TURB-B
7	3/12/97	336	11.22	7.32	0.17	0.21	0.00	0.00	0.04	0.03	0.21	213.56	214.79	0.33	0.01	0.60	0.25
7	3/12/97	337	10.01	7.43	0.21	0.25	0.01	0.01	0.03	0.03	0.22	176.81	166.92	0.04	0.00	0.60	0.25
7	3/11/97	338	9.80	7.17	0.21	0.18	0.02	0.00	0.04	0.04	0.30	181.17	169.73	0.30	0.27	1.00	1.05
7	3/11/97	339	12.64	9.76	0.14	0.16	0.00	0.00	0.04	0.04	0.15	187.40	177.25	0.12	0.82	0.23	0.77
7	3/11/97	340	24.12	8.70	0.20	0.15	0.01	0.01	0.04	0.04	0.13	188.25	167.19	0.24	0.08	0.10	0.00
7	3/11/97	341	11.38	7.91	0.22	0.18			0.11	0.03	0.22	178.65	168.85	0.22	0.25	0.75	0.15
7	3/12/97	342		8.77	0.21	0.21			0.04	0.03	0.25	165.83	174.79	0.51	0.87	0.48	0.63
7	3/12/97	343	9.88	8.40	0.19	0.24		0.00	0.08	0.03	0.30	166.15	167.40	0.36	0.96	0.35	0.50
7	3/11/97	344	8.85	7.85	0.19	0.18	0.00	0.03	0.05	0.04	0.15	166.56	163.92	0.06		0.35	0.40
7	3/11/97	345	9.85	8.12	0.19	0.20	0.02	0.05	0.04	0.04	0.11	161.48	165.77		0.07	0.00	0.00
7	3/11/97	346	7.48	7.88	0.20	0.18	0.01	0.01	0.05	0.03	0.36	162.25	167.25	0.02	0.02	0.40	0.03
7	3/11/97	347	8.96	8.30	0.20	0.22	0.01	0.01	0.11	0.03	0.32	172.52	168.52	0.02	0.29	0.28	0.20
7	3/11/97	348	11.16		0.23	0.19	0.01	0.01	0.04	0.04	0.25	172.42	162.35	0.42	0.14	1.08	0.70
7	3/11/97	349	9.62	8.30	0.24	0.22	0.01	0.00	0.11	0.03	0.38	270.50	241.13	0.09	0.09	0.65	0.25
7	3/11/97	350	8.72	8.79	0.19	0.19	0.01	0.01	0.04	0.04	0.11	246.33	241.04	0.03	0.06	0.30	0.35
8	6/18/97	200	9.63	8.28	0.18	0.20	0.01	0.01			0.17	266.83	267.63	0.68	0.70	0.20	0.10
8	6/18/97	201	9.83		0.19		0.01				0.13	274.25		1.16		0.35	
8	6/18/97	202	8.87	11.92	0.17	0.29	0.00	0.01			0.17	279.63	318.92	0.63	0.86	0.20	0.20
8	6/18/97	203	8.77		0.18		0.00				0.19	261.71		0.43		0.15	
8	6/18/97	204	10.94		0.20		0.01				0.17	268.58		1.30		0.35	
8	6/18/97	205	9.23	8.90	0.18	0.19	0.01	0.00			0.22	280.06	275.88	0.96	1.08	0.35	0.27
8	6/18/97	206	7.06	7.22	0.18	0.15	0.01	0.01			0.19	254.21	251.54	0.46	0.40	0.14	0.29
8	6/18/97	207	11.55		0.15		0.01				0.19	353.52		2.22		0.52	
8	6/18/97	208	8.66	9.51	0.18	0.16	0.00	0.00			0.25	279.69	303.15	0.72	0.60	0.38	0.28
8	6/18/97	209	18.22		0.21		0.03				0.20	383.88		10.18		0.80	
8	6/18/97	210	8.80	8.50	0.15	0.19	0.00	0.00			0.24	288.46	276.79	0.18	0.26	0.15	0.16
8	6/18/97	211	13.22		0.20		0.01				0.28	354.90		2.21		0.42	
8	6/18/97	212	11.38	10.84	0.21	0.15	0.00	0.02			0.20	324.90	331.83	1.30	1.23	0.37	0.40
8	6/18/97	213	8.98	8.14	0.18	0.19	0.01	0.00			0.23	302.00	291.63	0.47	0.44	0.33	0.23
8	6/18/97	214	11.33		0.16		0.01				0.20	343.88		2.19		0.30	
8	6/18/97	215	9.40		0.16		0.00				0.16	310.50		1.06		0.47	
8	6/18/97	216	8.85	8.23	0.17	0.20	0.02	0.01			0.25	267.54	285.50	0.49	0.57	0.16	0.20
8	6/18/97	217	13.28		0.17		0.01				0.34	329.96		1.80		0.48	
8	6/18/97	218	8.99	8.29	0.16	0.16	0.01	0.01			0.15	267.15	281.48	0.39	0.40	0.47	0.30
8	6/18/97	219	9.10	9.28	0.19	0.16	0.01	0.00			0.11	313.08	399.10	0.36	0.63	0.15	0.15
8	6/18/97	220	16.39	14.75	0.15	0.16	0.02	0.01			0.37	320.96	429.54	2.54	3.23	0.43	0.44
8	6/18/97	221	14.78	28.20	0.18	0.16	0.01	0.01			0.28	401.98	388.58	3.39	2.79	0.30	0.27
8	6/18/97	222	9.46	9.32	0.16	0.16	0.02	0.01			0.13	290.19	295.83	0.51	0.65	0.22	0.11
8	6/17/97	223	20.58		0.15		0.01		0.06		0.21	360.85		3.85		0.33	
8	6/17/97	224	10.24		0.15		0.03		0.04		0.21	256.81		1.34		0.27	
8	6/17/97	225	9.36	7.48	0.20	0.15	0.01	0.01	0.05	0.03	0.15	249.52	234.75	0.91	0.44	0.16	0.10

SURV	DATE	STA	SAL-S	SAL-B	TEMP-S	TEMP-B	DO-S	DO-B	Kd	TN:TP	%SAT_S	%SAT_B
7	3/12/97	336	36.30	36.30	24.90	24.80	6.50	6.40	0.123	69.25	95.40	93.83
7	3/12/97	337	36.30	36.30	25.00	25.00	6.40	6.40	0.293	50.64	94.03	94.03
7	3/11/97	338	36.20	36.30	24.80	24.70	6.80	6.60	0.202	49.30	99.63	96.66
7	3/11/97	339	36.20	36.40	25.10	24.00	6.50	6.80	0.075	97.62	95.54	98.88
7	3/11/97	340	36.20	36.30	25.30	24.70	6.50	6.60	0.054	127.13	95.74	96.66
7	3/11/97	341	36.30	36.30	24.70	24.70	6.60	6.50	0.209	57.63	96.66	95.20
7	3/12/97	342	36.30	36.30	24.50	24.30	6.40	6.30	0.131	54.60	93.53	91.86
7	3/12/97	343	36.30	36.30	24.70	23.80	6.50	6.30	0.087	59.77	95.20	91.34
7	3/11/97	344	36.30	36.30	24.80	24.70	6.60	6.50	0.072	49.01	96.77	95.20
7	3/11/97	345	36.20	36.40	25.20	21.70	6.50	6.50	0.039	55.50	95.64	91.90
7	3/11/97	346	36.20	36.30	24.50	24.50	6.50	6.30	0.232	40.42	94.93	92.07
7	3/11/97	347	36.20	36.30	24.60	24.50	6.50	6.40	0.115	45.41	95.03	93.53
7	3/11/97	348	36.30	36.30	24.80	24.80	6.60	6.50	0.183	52.74	96.77	95.30
7	3/11/97	349	36.30	36.30	24.80	24.80	6.60	6.50	0.356	43.45	96.77	95.30
7	3/11/97	350	36.30	36.40	24.90	23.00	6.50	6.70	0.059	47.71	95.40	96.29
8	6/18/97	200	35.90	36.10	29.40	29.00	6.10	6.00	0.245	56.17	93.02	91.33
8	6/18/97	201	35.30	35.30	30.30	30.30	6.10	6.30	0.432	55.60	93.27	96.33
8	6/18/97	202	35.60	35.60	29.30	29.20	6.00	6.20	0.329	54.76	91.26	94.23
8	6/18/97	203	36.20	36.20	28.60	28.60	5.80	5.80	0.208	51.26	88.07	88.07
8	6/18/97	204	35.00	35.00	30.50	30.40	6.20	6.40	0.216	58.73	94.75	97.74
8	6/18/97	205	35.80	35.80	30.00	30.00	6.30	6.40	0.431	55.60	96.43	97.96
8	6/18/97	206	36.20	36.20	28.80	28.80	5.90	6.00	0.156	42.10	89.73	91.25
8	6/18/97	207	35.70	35.80	30.20	30.20	6.00	6.10	0.905	83.68	91.91	93.50
8	6/18/97	208	36.20	36.20	30.00	29.90	6.60	6.80	0.335	51.57	101.27	104.27
8	6/18/97	209	35.00	35.00	31.60	31.30	5.30	5.50	0.212	105.14	81.57	84.49
8	6/18/97	210	36.40	36.30	28.30	28.20	5.90	5.90	0.139	60.76	89.48	89.35
8	6/18/97	211	35.60	35.70	31.30	31.20	6.10	6.50	0.214	68.37	94.06	100.22
8	6/18/97	212	36.60	36.60	30.80	30.70	6.10	6.40	0.693	57.45	94.34	98.92
8	6/18/97	213	36.40	36.40	28.40	28.30	5.90	5.90	0.136	53.87	89.55	89.48
8	6/18/97	214	36.00	36.00	31.60	31.60	6.40	6.30		78.02	99.11	97.56
8	6/18/97	215	36.20	36.30	30.70	30.60	6.60	6.80	0.242	62.25	101.76	104.84
8	6/18/97	216	36.40	36.40	28.60	28.30	5.90	5.60	0.109	52.47	89.70	84.93
8	6/18/97	217	36.10	36.10	31.10	31.00	6.30	6.50	0.886	81.41	97.32	100.35
8	6/18/97	218	36.30	36.40	29.30	28.40	5.60	5.70	0.171	57.72	85.55	86.52
8	6/18/97	219	36.40	36.30	28.70	25.10	5.90	6.30	0.096	50.71	89.77	92.66
8	6/18/97	220	36.50	36.60	31.20	31.00	6.30	6.80	0.676	116.05	97.62	105.30
8	6/18/97	221	37.00	37.00	30.80	30.70	6.20	6.70	0.408	84.38	96.13	103.81
8	6/18/97	222	36.40	36.30	28.50	25.90	5.90	5.90	0.102	61.01	89.63	87.49
8	6/17/97	223	37.00	37.00	29.60	29.60	5.50	5.50	0.505	143.12	84.58	84.58
8	6/17/97	224	36.60	36.60	28.90	28.90	5.60	5.70	0.206	75.26	85.45	86.97
8	6/17/97	225	36.50	36.30	28.30	25.00	5.90	6.50	0.088	49.44	89.54	95.50

SURV	DATE	STA	LATDEC	LONDEC	NOX-S	NOX-B	NO3-S	NO3-B	NO2-S	NO2-B	NH4-S	NH4-B	TN-S	TN-B	TIN-S	TIN-B
8	6/17/97	226	25.00840	-80.50148	1.82		1.66		0.16		1.49		27.13		3.30	
8	6/17/97	227	25.00167	-80.47490	0.60	0.42	0.56	0.37	0.04	0.05	0.26	0.27	18.87	16.80	0.86	0.70
8	6/17/97	228	24.97667	-80.45000	0.35	0.52	0.29	0.44	0.06	0.07	0.32	0.31	9.98	8.68	0.67	0.83
8	6/17/97	229	24.95012	-80.56218	0.96		0.82		0.14		0.77		26.58		1.73	
8	6/17/97	230	24.93965	-80.55162	0.30	0.30	0.28	0.26	0.02	0.04	0.09	0.15	24.91	24.34	0.40	0.45
8	6/17/97	231	24.91750	-80.51533	0.40	0.38	0.36	0.35	0.05	0.03	0.23	0.20	12.99	12.96	0.63	0.58
8	6/17/97	232	24.92703	-80.59852	0.54		0.42		0.12		0.78		35.31		1.32	
8	6/17/97	233	24.90185	-80.58238	0.27	0.30	0.24	0.27	0.03	0.02	0.25	0.25	20.14	19.31	0.51	0.54
8	6/17/97	234	24.86277	-80.56697	0.50	0.68	0.46	0.62	0.03	0.06	0.16	0.49	9.56	8.55	0.66	1.16
8	6/17/97	235	24.87123	-80.66865	1.23		1.02		0.22		2.44		46.35		3.67	
8	6/17/97	236	24.85970	-80.66240	0.39	0.47	0.34	0.41	0.05	0.06	0.24	0.24	19.93	18.94	0.63	0.71
8	6/17/97	237	24.83265	-80.64907	0.46	0.37	0.42	0.35	0.04	0.02	0.23	0.25	11.76	12.13	0.69	0.62
8	6/17/97	238	24.83442	-80.74683	1.10		0.93		0.17		2.15		41.43		3.25	
8	6/17/97	239	24.80223	-80.71620	0.16	0.24	0.12	0.21	0.04	0.03	0.17	0.20	12.22	10.94	0.34	0.44
8	6/17/97	240	24.78453	-80.70570	0.30	0.29	0.25	0.23	0.04	0.06	0.10	0.19	11.83	10.04	0.40	0.48
8	6/6/97	241	24.80247	-80.80890	0.60		0.53		0.07		0.47		13.63		1.07	
8	6/6/97	242	24.79150	-80.81225	0.43	0.18	0.38	0.12	0.05	0.06	0.36	0.52	13.62	12.54	0.79	0.70
8	6/6/97	243	24.72935	-80.79348	0.06	0.09	0.03	0.05	0.04	0.04	0.43	0.28	7.84	7.68	0.49	0.36
8	6/6/97	244	24.79333	-80.86333	0.68	0.62	0.57	0.53	0.10	0.09	0.60	0.54	15.88	16.10	1.27	1.16
8	6/6/97	245	24.76167	-80.86167	0.42	0.47	0.36	0.39	0.06	0.09	0.43	0.59	12.58	17.68	0.85	1.07
8	6/6/97	246	24.71317	-80.85813					0.00	0.01	0.14	0.22	9.66	9.76		
8	6/6/97	247	24.71318	-81.01115					0.02		0.35		11.75			
8	6/6/97	248	24.68392	-80.98310					0.01	0.01	0.53	0.55	12.41	10.39		
8	6/6/97	249	24.66560	-80.97762					0.02	0.04	0.16	0.23	10.08	12.12		
8	6/6/97	250	24.69193	-81.18245					0.05		0.37		15.71			
8	6/6/97	251	24.64502	-81.16508					0.04	0.01	0.58	0.58	15.60	14.82		
8	6/6/97	252	24.60693	-81.15442					0.01	0.01	0.25	0.23	11.73	8.55		
8	6/6/97	253	24.64537	-81.30723	0.46		0.37		0.09		0.26		13.44		0.72	
8	6/6/97	254	24.65792	-81.26502	0.28		0.21		0.08		0.30		10.80		0.59	
8	6/6/97	255	24.62168	-81.24308	0.18	0.14	0.13	0.08	0.05	0.06	0.24	0.26	11.52	13.76	0.41	0.40
8	6/6/97	256	24.58497	-81.23408	0.20	0.07	0.15	0.04	0.05	0.03	0.39	0.26	10.14	9.83	0.58	0.33
8	6/6/97	257	24.63333	-81.33732	0.28		0.19		0.09		0.35		22.31		0.62	
8	6/6/97	258	24.59323	-81.32422	0.06	0.24	0.00	0.16	0.06	0.08	0.27	0.55	20.02	21.86	0.33	0.79
8	6/6/97	259	24.57037	-81.32167	0.47	0.55	0.41	0.51	0.06	0.04	0.47	0.21	16.46	14.44	0.93	0.76
8	6/6/97	260	24.62550	-81.41662												
8	6/5/97	261	24.58333	-81.50000	0.07	0.20	0.01	0.14	0.07	0.06	0.22	0.42	14.98	14.05	0.29	0.62
8	6/5/97	262	24.58618	-81.41887					0.04	0.04	0.47	0.45	13.06	13.09		
8	6/5/97	263	24.54843	-81.39742					0.04	0.05	0.58	0.73	12.27	11.97		
8	6/17/97	264	24.94677	-80.45947	0.23	0.40	0.19	0.37	0.04	0.03	0.25	0.25	10.50	11.38	0.48	0.65
8	6/3/97	265	24.81667	-81.08333	0.20		0.15		0.05		0.18		14.90		0.38	
8	6/6/97	266	24.61105	-81.50527	1.06		0.98		0.08		0.61		22.09		1.66	

SURV	DATE	STA	TON-S	TON-B	TP-S	TP-B	SRP-S	SRP-B	APA-S	APA-B	CHLA	TOC-S	TOC-B	SIO4-S	SIO4-B	TURB-S	TURB-B
8	6/17/97	226	23.83		0.21		0.02		0.14		0.70	436.15		10.48		0.69	
8	6/17/97	227	18.00	16.10	0.17	0.17	0.03	0.02	0.06	0.06	0.33	326.56	321.92	4.16	4.09	0.19	0.25
8	6/17/97	228	9.31	7.85	0.16	0.14	0.00	0.00	0.05	0.04	0.28	245.15	239.08	0.80	0.77	0.17	0.17
8	6/17/97	229	24.85		0.16		0.01		0.13		0.46	512.48		12.99		0.62	
8	6/17/97	230	24.52	23.89	0.17	0.17	0.00	0.01	0.15	0.15	0.43	421.60	460.21	10.75	11.36	0.46	0.45
8	6/17/97	231	12.36	12.38	0.16	0.17	0.00	0.01	0.10	0.06	0.27	296.21	280.83	2.49	2.47	0.26	0.23
8	6/17/97	232	33.99		0.17		0.00		0.18		0.33	605.48		12.40		0.90	
8	6/17/97	233	19.62	18.77	0.18	0.17	0.00	0.01	0.11	0.12	0.34	361.73	367.25	7.41	8.01	0.31	0.39
8	6/17/97	234	8.91	7.39	0.13	0.15	0.01	0.01	0.04	0.02	0.13	247.23	193.77	0.80	0.60	0.31	0.35
8	6/17/97	235	42.68		0.18		0.01		0.18		0.37	726.37		37.36		1.14	
8	6/17/97	236	19.30	18.24	0.19	0.16	0.02	0.01	0.12	0.08	0.32	302.19	303.96	8.27	8.16	0.42	0.37
8	6/17/97	237	11.07	11.51	0.20	0.19	0.00	0.01	0.08	0.09	0.27	228.42	241.75	2.71	2.99	0.36	0.27
8	6/17/97	238	38.18		0.20		0.03		0.13		0.36	632.27		32.41		0.86	
8	6/17/97	239	11.89	10.50	0.18	0.21	0.00	0.01	0.07	0.07	0.27	223.96	220.02	3.10	1.72	0.15	0.09
8	6/17/97	240	11.44	9.56	0.17	0.16	0.00	0.00	0.09	0.05	0.28	343.10	303.29	3.15	1.15	0.25	0.19
8	6/6/97	241	12.57		0.15		0.01		0.05		0.17	287.60		3.22		0.29	
8	6/6/97	242	12.84	11.84	0.20	0.23	0.01	0.00	0.06	0.05	0.23	282.04	286.44	2.07	2.08	0.24	0.20
8	6/6/97	243	7.35	7.31	0.22	0.22	0.01	0.01	0.04	0.04	0.25	226.48	225.02	1.03	0.57	0.10	0.11
8	6/6/97	244	14.61	14.93	0.22	0.22	0.01	0.00	0.05	0.05	0.28	323.04	334.75	3.23	3.37	0.46	0.50
8	6/6/97	245	11.73	16.62	0.20	0.20	0.01	0.01	0.05	0.05	0.30	278.10	323.63	2.72	3.16	0.25	0.48
8	6/6/97	246			0.20	0.17	0.02	0.01	0.05	0.05	0.36	224.71	232.83	1.38	1.90	0.16	0.16
8	6/6/97	247			0.19		0.01		0.05		0.25	342.40		2.97		0.35	
8	6/6/97	248			0.18	0.20	0.01	0.01	0.06	0.06	0.26	242.71	242.15	2.97	3.23	0.15	0.16
8	6/6/97	249			0.18	0.19	0.02	0.01	0.04	0.05	0.37	209.94	223.71	1.58	1.88	0.17	0.17
8	6/6/97	250			0.22		0.01		0.06		0.29	286.08		2.70		0.40	
8	6/6/97	251			0.23	0.20	0.01	0.01	0.06	0.06	0.31	276.42	268.27	3.71	3.54	0.18	0.19
8	6/6/97	252			0.45	0.19	0.02	0.02	0.04	0.05	0.27	227.02	211.65	0.85	0.90	0.11	0.10
8	6/6/97	253	12.72		0.22		0.01		0.05		0.20	269.98		2.85		0.37	
8	6/6/97	254	10.22		0.19		0.01		0.05		0.24	251.06		2.05		0.25	
8	6/6/97	255	11.11	13.36	0.18	0.21	0.02	0.01	0.06	0.07	0.39	257.35	245.08	3.38	3.48	0.28	0.36
8	6/6/97	256	9.55	9.50	0.19	0.17	0.01	0.01	0.04	0.04	0.27	206.04	210.13	1.39	0.91	0.13	0.11
8	6/6/97	257	21.69		0.18		0.01		0.05		0.20	244.79		1.40		0.32	
8	6/6/97	258	19.69	21.08	0.18	0.20	0.00	0.01	0.06	0.06	0.29	227.94	233.04	3.34	3.59	0.20	0.23
8	6/6/97	259	15.52	13.68	0.20	0.19	0.02	0.01	0.04	0.04	0.22	209.33	203.77	1.71	1.74	0.13	0.12
8	6/6/97	260															
8	6/5/97	261	14.70	13.43	0.18	0.17	0.02	0.00	0.06	0.06	0.25	295.94	295.21	5.25	4.94	0.29	0.30
8	6/5/97	262			0.17	0.17	0.00	0.01	0.05	0.05	0.32	281.81	273.79	3.61	3.36	0.43	0.47
8	6/5/97	263			0.17	0.16	0.01	0.02	0.03	0.03	0.28	291.08	274.58	0.72	0.54	0.23	0.15
8	6/17/97	264	10.02	10.73	0.17	0.19	0.00	0.00	0.06	0.06	0.29	296.42	294.54	2.15	2.39	0.15	0.17
8	6/3/97	265	14.53		0.18		0.00		0.12		0.38	361.33		4.51		0.56	
8	6/6/97	266	20.43		0.22		0.01		0.09		0.26	269.63		2.89		1.32	

SURV	DATE	STA	SAL-S	SAL-B	TEMP-S	TEMP-B	DO-S	DO-B	Kd	TN:TP	%SAT_S	%SAT_B
8	6/17/97	226	35.60	35.50	31.80	32.10			0.098	127.67		
8	6/17/97	227	37.30	37.30	30.30	30.20	6.10	6.20	0.197	110.97	94.44	95.92
8	6/17/97	228	36.60	36.60	28.70	28.60	5.70	5.80	0.261	61.41	86.84	88.29
8	6/17/97	229	37.50	37.50	31.40	31.30	6.60	6.90		168.78	103.03	107.65
8	6/17/97	230	37.70	37.80	30.70	30.60	6.00	6.30	0.382	148.72	93.37	98.04
8	6/17/97	231	36.80	36.80	29.10	28.90	5.70	5.80	0.385	82.47	87.22	88.61
8	6/17/97	232	38.00	37.90	31.80	31.80	7.40	8.00		204.67	116.15	125.49
8	6/17/97	233	37.40	37.40	30.60	30.40	6.10	6.30	0.431	113.45	94.69	97.66
8	6/17/97	234	36.40	36.30	28.80	23.50	6.00	6.70	0.090	72.17	91.36	96.80
8	6/17/97	235	37.60	37.60	31.30	31.20	5.90	5.90	0.495	264.88	92.11	92.05
8	6/17/97	236	37.30	37.30	30.40	30.20	6.20	6.50	0.505	106.29	96.05	100.57
8	6/17/97	237	36.90	37.30	29.70	29.80	5.90	5.40	0.191	58.79	90.74	83.31
8	6/17/97	238	38.10	38.10	31.00	31.00	5.40	5.40	0.483	204.62	84.40	84.40
8	6/17/97	239	36.70	36.70	29.90	29.40	6.00	6.40	0.224	66.96	92.29	98.09
8	6/17/97	240	36.60	36.50	29.80	28.20	5.90	6.00	0.189	69.60	90.63	90.98
8	6/6/97	241	37.80	37.90	29.60	29.60	6.50	6.60	0.314	89.40	100.45	102.06
8	6/6/97	242	37.80	37.80	39.60	29.50	6.00	6.10	0.481	68.97	96.40	94.20
8	6/6/97	243	36.70	36.40	28.70	25.20	5.90	6.40	0.091	36.47	89.94	94.29
8	6/6/97	244	38.40	38.40	29.60	29.60	5.90	5.80	0.177	72.19	91.52	89.97
8	6/6/97	245	37.70	38.90	29.60	30.00	6.00	6.30	0.296	62.91	92.67	98.31
8	6/6/97	246	36.90	37.40	28.90	29.30	5.90	5.80	0.066	49.54	90.19	89.21
8	6/6/97	247	37.70	38.20	29.50	29.60	5.90	6.40	0.171	61.04	91.06	99.16
8	6/6/97	248	37.30	37.30	29.40	29.40	5.60	5.60	0.089	68.01	86.15	86.15
8	6/6/97	249	36.80	36.90	28.70	28.60	5.80	5.90	0.065	55.21	88.47	89.98
8	6/6/97	250	37.30	37.30	30.10	30.10	6.70	6.70	0.513	72.23	103.59	103.59
8	6/6/97	251	37.30	37.30	29.50	29.50	5.70	5.60	0.140	69.32	87.75	86.21
8	6/6/97	252	36.60	36.50	28.40	27.70	5.90	5.60	0.079	26.20	89.67	84.55
8	6/6/97	253	38.00	38.00	30.50	30.40	7.50	7.50		61.10	116.78	116.70
8	6/6/97	254	37.50	37.50	30.00	30.00	6.20	6.30	0.022	57.62	95.91	97.46
8	6/6/97	255	37.30	37.40	29.80	29.50	5.70	5.90	0.201	65.84	87.94	90.89
8	6/6/97	256	36.70	36.40	28.50	26.70	5.70	5.60	0.094	54.79	86.75	83.74
8	6/6/97	257	37.80		30.40		7.60			123.97	118.11	0.00
8	6/6/97	258	37.20	37.40	29.20	29.50	5.70	5.50	0.126	111.21	87.50	84.73
8	6/6/97	259	36.80	36.80	28.80	28.80	5.80	5.80	0.071	82.28	88.54	88.54
8	6/6/97	260										
8	6/5/97	261	37.50	37.50	29.80	29.60	5.80	6.00	0.190	85.62	89.60	92.55
8	6/5/97	262	37.20	37.10	29.50	29.40	5.90	6.20	0.165	79.16	90.77	95.26
8	6/5/97	263	36.60	36.50	28.60	28.30	5.90	6.10	0.120	72.15	89.81	92.57
8	6/17/97	264	36.70	36.70	28.80	28.80	5.70	5.60	0.153	62.67	86.96	85.43
8	6/3/97	265	37.90	38.00	29.30	29.30	6.00	6.00	0.414	81.66	92.58	92.64
8	6/6/97	266	38.60	38.60	30.40	30.30	6.70	7.00	0.296	100.42	104.64	109.26

SURV	DATE	STA	LATDEC	LONDEC	NOX-S	NOX-B	NO3-S	NO3-B	NO2-S	NO2-B	NH4-S	NH4-B	TN-S	TN-B	TIN-S	TIN-B
8	6/5/97	267	24.53008	-81.48730	0.17	0.17	0.13	0.14	0.04	0.03	0.25	0.27	10.30	10.69	0.42	0.44
8	6/5/97	268	24.58782	-81.57698	0.65		0.62		0.03		0.48		14.27		1.13	
8	6/5/97	269	24.55943	-81.55955	0.28	0.31	0.23	0.27	0.05	0.05	0.31	0.45	14.36	13.62	0.59	0.76
8	6/5/97	270	24.52162	-81.56432	0.17	0.15	0.14	0.10	0.03	0.04	0.32	0.36	10.53	10.30	0.49	0.51
8	6/5/97	271	24.55667	-81.66667	0.51	0.45	0.43	0.37	0.08	0.09	0.62	0.57	13.28	13.00	1.13	1.02
8	6/5/97	272	24.50548	-81.65433	0.26	0.27	0.21	0.19	0.06	0.08	0.17	0.14	11.35	10.77	0.43	0.41
8	6/5/97	273	24.49103	-81.65048	0.21	0.39	0.15	0.31	0.06	0.08	0.16	0.60	8.82	9.24	0.36	0.99
8	6/5/97	274	24.54167	-81.75000	0.20	0.29	0.12	0.18	0.08	0.11	0.28	0.25	12.73	11.98	0.48	0.54
8	6/5/97	275	24.52143	-81.74422	0.25	0.19	0.19	0.13	0.06	0.07	0.27	0.30	12.64	11.15	0.52	0.50
8	6/5/97	276	24.47538	-81.73742	0.25	0.18	0.18	0.15	0.07	0.03	0.15	0.06	7.97	7.88	0.40	0.23
8	6/5/97	277	24.51762	-81.82110	0.51	0.65	0.41	0.53	0.10	0.12	0.23	0.23	11.04	12.94	0.74	0.88
8	6/5/97	278	24.49862	-81.81895	0.05	0.16	0.01	0.12	0.04	0.05	0.23	0.24	11.44	11.22	0.28	0.40
8	6/5/97	279	24.45803	-81.81297	0.04	0.22	0.00	0.13	0.04	0.09	0.12	0.44	8.24	8.26	0.16	0.66
8	6/5/97	280	24.45363	-81.84365	0.04	0.43	0.00	0.34	0.04	0.09	0.17	0.45	7.51	8.94	0.21	0.87
8	5/28/97	281	24.49500	-81.89167	0.25	0.28	0.16	0.18	0.09	0.10	0.26	0.27	10.52	12.70	0.51	0.55
8	6/3/97	282	24.86667	-80.88500	0.38		0.28		0.10		0.26		19.24		0.64	
8	6/3/97	283	24.90000	-81.00000	0.33		0.26		0.07		0.14		16.31		0.47	
8	6/3/97	284	24.87667	-80.95833	0.14		0.07		0.07		0.17		15.58		0.31	
8	6/3/97	285	24.80998	-80.92028	0.38		0.30		0.08		0.32		20.07		0.70	
8	6/3/97	286	24.78333	-80.92395	0.51		0.37		0.14		0.57		15.45		1.08	
8	6/3/97	287	24.84667	-81.00833	0.32		0.27		0.05		0.21		16.20		0.53	
8	6/3/97	288	24.88333	-81.08333	0.22		0.14		0.08		0.57		12.46		0.79	
8	6/3/97	289	24.77775	-81.03300	0.41		0.35		0.06		0.35		19.05		0.77	
8	6/3/97	290	24.86267	-81.21623	0.17		0.13		0.04		0.25		13.13		0.41	
8	6/3/97	291	24.81682	-81.14678	0.15		0.13		0.02		0.16		12.71		0.30	
8	6/3/97	292	24.76312	-81.11248	0.30		0.26		0.05		0.36		14.64		0.66	
8	6/3/97	293	24.73753	-81.10930	0.36		0.28		0.09		0.36		12.64		0.73	
8	6/3/97	294	24.75550	-81.17218	0.33		0.25		0.09		0.36		14.52		0.69	
8	6/4/97	295	24.85163	-81.35123	0.17		0.11		0.07		0.26		11.73		0.43	
8	6/3/97	296	24.79152	-81.28908	0.37		0.29		0.08		0.33		13.23		0.70	
8	6/3/97	297	24.74077	-81.21118	0.50		0.42		0.08		0.34		14.21		0.84	
8	6/4/97	298	24.84085	-81.43112	0.25		0.19		0.06		0.23		14.21		0.48	
8	6/4/97	299	24.68737	-81.34182	0.87		0.72		0.15		0.88		18.69		1.75	
8	6/4/97	300	24.70882	-81.30923	0.66		0.57		0.09		0.57		15.01		1.23	
8	6/4/97	301	24.77258	-81.39665	0.40		0.26		0.13		0.41		15.22		0.81	
8	6/4/97	302	24.80128	-81.48227	0.27		0.20		0.08		0.30		11.90		0.57	
8	6/18/97	303	24.69242	-81.39198	3.34		3.07		0.28		2.07		30.38		5.41	
8	6/18/97	304	24.71220	-81.45157	2.70		2.52		0.18		0.95		21.94		3.66	
8	6/4/97	305	24.76852	-81.55500	0.17		0.14		0.03		0.23		11.15		0.40	
8	6/18/97	306	24.73770	-81.59247	0.12		0.04		0.07		0.45		12.69		0.56	
8	6/18/97	307	24.72503	-81.52052	0.26		0.08		0.18		0.70		19.97		0.96	

SURV	DATE	STA	TON-S	TON-B	TP-S	TP-B	SRP-S	SRP-B	APA-S	APA-B	CHLA	TOC-S	TOC-B	SIO4-S	SIO4-B	TURB-S	TURB-B
8	6/5/97	267	9.88	10.25	0.17	0.19	0.00	0.00	0.03	0.03	0.36	256.92	234.00	0.93	0.75	0.22	0.23
8	6/5/97	268	13.14		0.17		0.01		0.06		0.35	287.71		4.46		0.48	
8	6/5/97	269	13.77	12.86	0.16	0.18	0.01	0.00	0.06	0.06	0.49	273.85	267.85	5.66	5.44	0.64	0.45
8	6/5/97	270	10.04	9.79	0.17	0.17	0.00	0.01	0.04	0.05	0.35	235.60	231.71	1.19	1.12	0.16	0.17
8	6/5/97	271	12.15	11.98	0.16	0.18	0.01	0.00	0.05	0.07	0.41	266.71	250.58	3.99	3.78	0.48	0.58
8	6/5/97	272	10.92	10.37	0.17	0.16	0.03	0.00	0.05	0.05	0.32	281.98	268.13	2.92	2.90	0.22	0.24
8	6/5/97	273	8.45	8.25	0.19	0.23	0.01	0.01	0.05	0.03	0.43	248.63	244.88	1.56	1.97	0.15	0.50
8	6/5/97	274	12.25	11.44	0.23		0.01	0.00	0.10	0.09	0.62	304.73	285.29	4.70	4.44	0.51	0.55
8	6/5/97	275	12.13	10.65	0.24	0.24	0.02	0.00	0.07	0.06	0.87	286.96	276.31	4.52	5.84	0.54	0.67
8	6/5/97	276	7.57	7.64	0.21	0.16	0.00	0.00	0.04	0.04	0.35	239.88	249.13	1.05	0.82	0.11	0.12
8	6/5/97	277	10.30	12.06	0.19	0.20	0.00	0.01	0.06	0.05	0.94	279.98	271.25	4.32	4.75	0.62	0.58
8	6/5/97	278	11.16	10.81	0.20	0.21	0.00	0.00	0.04	0.06	0.35	307.46	304.56	4.24	3.96	0.32	0.41
8	6/5/97	279	8.08	7.60	0.16	0.15	0.00	0.00	0.04	0.03	0.22	298.35	279.04	0.45	1.13	0.11	0.28
8	6/5/97	280	7.30	8.07	0.15	0.19	0.00	0.00	0.04	0.04	0.31	281.58	277.25	1.15	1.29	0.10	0.23
8	5/28/97	281	10.01	12.16	0.18	0.19	0.04	0.01	0.09	0.17	0.39	294.63	301.35	3.45	4.55	0.50	1.35
8	6/3/97	282	18.61		0.25		0.00		0.08		0.30	447.94		3.83		1.81	
8	6/3/97	283	15.84		0.25		0.00		0.06		0.57	374.04		3.79		1.08	
8	6/3/97	284	15.27		0.23		0.00		0.08		0.45	409.79		10.47		0.57	
8	6/3/97	285	19.38		0.20		0.01		0.11		0.29	449.38		3.05		1.16	
8	6/3/97	286	14.37		0.15		0.01		0.09		0.22	378.15		2.46		1.13	
8	6/3/97	287	15.67		0.17		0.00		0.10		0.32	398.17		18.20		0.42	
8	6/3/97	288	11.66		0.27		0.00		0.07		0.54	340.69		3.45		0.93	
8	6/3/97	289	18.28		0.18		0.02		0.12		0.23	418.96		4.92		0.91	
8	6/3/97	290	12.72		0.29		0.00		0.06		0.77	298.71		3.60		0.83	
8	6/3/97	291	12.41		0.27		0.00		0.11		0.59	336.46		3.66		1.00	
8	6/3/97	292	13.98		0.19		0.00		0.10		0.18	358.63		2.98		0.82	
8	6/3/97	293	11.92		0.20		0.00		0.06		0.19	312.98		1.67		1.35	
8	6/3/97	294	13.83		0.21		0.00		0.09		0.25	336.04		3.93		0.82	
8	6/4/97	295	11.29		0.30		0.01		0.04		0.55	282.02		1.83		0.56	
8	6/3/97	296	12.53		0.23		0.01		0.09		0.24	338.96		5.83		0.53	
8	6/3/97	297	13.37		0.23		0.01		0.10		0.41	350.10		4.84		0.78	
8	6/4/97	298	13.73		0.30		0.00		0.03		0.58	277.71		1.01		0.43	
8	6/4/97	299	16.94		0.22		0.01		0.05		0.38	358.31		2.94		0.62	
8	6/4/97	300	13.78		0.21		0.00		0.05		0.23	337.54		4.69		0.67	
8	6/4/97	301	14.42		0.22		0.00		0.07		0.39	314.44		6.17		0.69	
8	6/4/97	302	11.33		0.28		0.00		0.05		0.39	267.67		1.52		0.35	
8	6/18/97	303	24.98		0.23		0.00		0.15		0.30	856.25		4.63		0.62	
8	6/18/97	304	18.29		0.30		0.00		0.14		0.20	748.21		1.53		0.58	
8	6/4/97	305	10.75		0.22		0.00		0.04		0.46	267.44		0.68		0.24	
8	6/18/97	306	12.13		0.25		0.01		0.01		0.19	319.63		4.02		0.31	
8	6/18/97	307	19.01		0.30		0.02		0.10		0.27	735.13		4.74		0.78	

SURV	DATE	STA	SAL-S	SAL-B	TEMP-S	TEMP-B	DO-S	DO-B	Kd	TN:TP	%SAT_S	%SAT_B
8	6/5/97	267	36.60	36.50	28.50	27.90	5.80	6.40	0.102	62.41	88.22	96.80
8	6/5/97	268	37.60	37.60	29.80	29.70	5.50	6.20	0.212	86.50	85.02	95.77
8	6/5/97	269	37.50	37.50	29.80	29.50	5.60	5.60	0.224	91.19	86.51	86.32
8	6/5/97	270	36.70	36.70	28.30	28.30	5.60	5.60	0.062	61.05	85.09	85.09
8	6/5/97	271	37.40	37.40	29.50	29.30	5.60	5.70	0.277	81.73	86.27	87.68
8	6/5/97	272	37.00	37.00	29.00	28.80	5.40	5.40	0.140	65.77	82.67	82.54
8	6/5/97	273	36.80	36.40	28.50	25.90	5.70	5.90	0.141	46.40	86.81	87.55
8	6/5/97	274	37.30	37.30	29.50	29.50	5.70	5.70	0.213	55.95	87.75	87.75
8	6/5/97	275	37.30	37.40	29.70	29.50	5.60	5.70	0.150	52.68	86.34	87.81
8	6/5/97	276	36.60	36.50	28.20	27.10	5.90	5.40	0.095	37.50	89.52	81.10
8	6/5/97	277	37.30	37.40	29.70	29.60	5.50	5.30	0.176	57.34	84.80	81.70
8	6/5/97	278	37.10	37.00	29.30	29.00	5.60	5.70	0.108	58.68	85.98	87.26
8	6/5/97	279	36.50	36.40	28.00	24.00	6.00	6.50	0.117	50.70	90.83	94.52
8	6/5/97	280	36.60	36.40	28.30	24.30	5.80	6.30	0.115	50.89	88.07	91.92
8	5/28/97	281	37.00	37.40	29.60	29.50	6.10	6.00	0.208	59.29	93.80	92.43
8	6/3/97	282	38.10	38.10	29.10	29.10	6.60	6.60	0.552	78.54	101.81	101.81
8	6/3/97	283	37.40	37.40	29.00	29.00	6.10	6.50	0.286	66.56	93.62	99.76
8	6/3/97	284	37.80	37.30	29.50	29.50	7.40	7.30		67.73	114.28	112.38
8	6/3/97	285	39.70	39.70	29.60	29.60	6.00	5.80	0.402	100.36	93.84	90.71
8	6/3/97	286	39.00	39.00	29.80	29.80	6.70	6.70	0.405	103.00	104.47	104.47
8	6/3/97	287	38.70	38.70	29.40	29.40	6.20	6.30	0.262	96.72	96.22	97.77
8	6/3/97	288	37.00	37.00	28.90	28.90	6.20	6.20	0.300	47.01	94.84	94.84
8	6/3/97	289	40.30		29.70		5.40			108.83	84.83	
8	6/3/97	290	36.80	36.80	29.20	29.20	5.70	5.80	0.241	46.09	87.28	88.81
8	6/3/97	291	36.20	36.20	28.80	28.90	5.20	5.60	0.337	46.66	79.08	85.23
8	6/3/97	292	38.60	38.60	29.30	29.30	5.70	5.70	0.901	78.05	88.34	88.34
8	6/3/97	293	38.00	38.00	29.40	29.40	5.70	5.70	0.559	64.00	88.07	88.07
8	6/3/97	294	37.60	37.60	29.40	29.40	5.70	5.70	0.443	69.13	87.85	87.85
8	6/4/97	295	36.60	36.60	29.30	29.30	6.00	5.90	0.462	39.42	91.83	90.30
8	6/3/97	296	37.20	37.20	29.30	29.30	5.20	5.20	0.446	58.81	79.89	79.89
8	6/3/97	297	37.50	37.50	29.30	29.30	5.60	5.70	0.947	62.44	86.19	87.73
8	6/4/97	298	36.80	36.80	29.50	29.50	5.90	6.00	0.437	47.35	90.55	92.08
8	6/4/97	299	38.30	38.30	29.90	29.90	4.60	4.60	0.490	83.98	71.47	71.47
8	6/4/97	300	37.70	37.70	29.40	29.30	4.60	4.60	0.437	72.33	70.94	70.89
8	6/4/97	301	37.00	37.00	29.30	29.30	4.60	4.60	0.663	68.41	70.58	70.58
8	6/4/97	302	36.80	36.80	29.90	29.90	6.00	6.00	1.615	42.51	92.35	92.35
8	6/18/97	303	31.90	33.50	33.50	31.90	4.50	4.70	0.296	135.04	68.65	71.79
8	6/18/97	304	31.30	35.00	35.00	31.30	4.40	4.50	0.348	73.76	67.31	69.13
8	6/4/97	305	36.80	36.80	30.10	30.20	6.40	6.50	0.601	50.68	98.64	100.25
8	6/18/97	306	30.50	36.00	36.10	30.50	5.70	5.60	0.252	50.27	87.11	86.12
8	6/18/97	307	31.70	35.40	35.40	31.70	6.10	6.10	0.326	66.57	93.68	94.17

SURV	DATE	STA	LATDEC	LONDEC	NOX-S	NOX-B	NO3-S	NO3-B	NO2-S	NO2-B	NH4-S	NH4-B	TN-S	TN-B	TIN-S	TIN-B
8	6/18/97	308	24.69430	-81.48820	0.39		0.30		0.10		0.75		18.92		1.14	
8	6/4/97	309	24.69772	-81.68318	1.03		1.00		0.04		0.16		10.57		1.19	
8	6/18/97	310	24.65752	-81.63265	1.22		1.13		0.10		1.00		21.98		2.23	
8	6/18/97	311	24.61762	-81.65008	4.57		4.42		0.15		1.25		24.06		5.82	
8	6/4/97	312	24.65978	-81.76343	0.33		0.27		0.06		0.50		9.46		0.83	
8	6/18/97	313	24.64157	-81.73210	0.11		0.08		0.04		0.32		16.43		0.43	
8	6/18/97	314	24.75043	-81.43578	0.59		0.45		0.14		1.27		21.75		1.86	
8	6/4/97	315	24.63325	-81.82827	0.08		0.00		0.08		0.25		9.81		0.33	
8	6/4/97	316	24.58577	-81.80240	0.35		0.22		0.14		0.67		13.05		1.02	
8	6/4/97	317	24.57500	-81.78833	0.48		0.32		0.16		0.88		14.96		1.36	
8	5/29/97	318	24.65083	-81.90467	0.30	0.10	0.22	0.00	0.08	0.10	0.42	0.36	15.08	11.29	0.72	0.45
8	5/29/97	319	24.62900	-82.07133	0.14	0.28	0.01	0.19	0.13	0.09	0.46	0.40	9.31	9.42	0.60	0.67
8	5/29/97	320	24.65167	-82.96667	0.25	0.27	0.13	0.16	0.12	0.12	0.59	0.91	9.05	9.64	0.83	1.19
8	5/29/97	321	24.64167	-82.94000	0.10	0.11	0.00	0.00	0.10	0.11	0.47	0.43	8.91	6.82	0.57	0.54
8	5/28/97	322	24.45833	-81.98167	0.55	0.12	0.50	0.08	0.05	0.04	0.14	0.08	7.70	7.33	0.69	0.20
8	5/29/97	323	24.70500	-82.17000	0.30	0.15	0.26	0.06	0.04	0.09	0.12	0.07	8.51	9.90	0.42	0.21
8	5/29/97	324	24.65333	-82.15833	0.04	0.05	0.00	0.00	0.04	0.05	0.13	0.09	9.17	8.19	0.17	0.14
8	5/28/97	325	24.54167	-82.10000	0.32	0.29	0.28	0.28	0.04	0.02		0.18	7.93	8.87		0.47
8	5/29/97	326	24.70833	-82.25000	0.44	0.35	0.43	0.33	0.01	0.02	0.14	0.14	8.41	9.73	0.57	0.50
8	5/29/97	327	24.61667	-82.22333	0.37	0.36	0.37	0.36	0.00	0.00	0.07	0.05	8.86	8.81	0.44	0.42
8	5/28/97	328	24.45400	-82.22400	0.16	0.27	0.16	0.27	0.01	0.00	0.03	0.04	6.75	7.95	0.19	0.31
8	5/29/97	329	24.71667	-82.54167	0.10	0.10	0.08	0.06	0.02	0.04	0.07	0.14	9.12	8.18	0.17	0.24
8	5/29/97	330	24.66533	-82.37400	0.10	0.08	0.08	0.06	0.02	0.03	0.07	0.12	10.06	9.84	0.18	0.21
8	5/28/97	331	24.50683	-82.28767	0.08	0.09	0.07	0.07	0.01	0.02	0.19	0.21	7.80	7.59	0.27	0.30
8	5/28/97	332	24.53550	-82.36733	0.16	0.22	0.11	0.16	0.05	0.06	0.15	0.24	11.01	10.04	0.30	0.45
8	5/29/97	333	24.57717	-82.49133	0.04	0.00	0.03	0.00	0.01	0.00	0.03	0.05	9.09	8.49	0.06	0.06
8	5/28/97	334	24.51217	-82.45033	0.01	0.05	0.00	0.03	0.01	0.02	0.13	0.06	7.09	7.08	0.14	0.11
8	5/28/97	335	24.46083	-82.38317	0.07	0.08	0.06	0.06	0.01	0.03	0.06	0.07	6.22	7.47	0.13	0.15
8	5/29/97	336	24.65483	-82.64633	0.09	0.07	0.05	0.04	0.05	0.03	0.28	0.19	7.57	7.27	0.37	0.26
8	5/29/97	337	24.59133	-82.58783	0.37	0.29	0.33	0.27	0.04	0.02	0.12	0.18	7.80	7.33	0.49	0.47
8	5/29/97	338	24.63680	-82.87700	0.28	0.31	0.24	0.29	0.04	0.02	0.09	0.13	7.26	7.95	0.37	0.44
8	5/28/97	339	24.42833	-82.51083	0.07	0.09	0.04	0.03	0.02	0.06	0.15	0.20	7.18	8.47	0.22	0.30
8	5/28/97	340	24.48500	-82.65333	0.08	0.12	0.06	0.08	0.02	0.04	0.22	0.24	8.53	7.22	0.29	0.36
8	5/29/97	341	24.69833	-82.88333	0.07	0.14	0.02	0.07	0.05	0.07	0.17	0.23	6.65	6.20	0.24	0.37
8	5/29/97	342	24.70600	-82.74567	0.18	0.17	0.17	0.16	0.01	0.01	0.09	0.09	5.77	7.29	0.27	0.26
8	5/29/97	343	24.75500	-82.85500	0.34	0.26	0.34	0.24	0.00	0.02	0.07	0.20	6.11	7.53	0.41	0.46
8	5/29/97	344	24.56333	-82.80500	0.12	0.05	0.11	0.04	0.01	0.01	0.05	0.04	5.71	6.44	0.16	0.09
8	5/28/97	345	24.37900	-82.70467	0.02	2.79	0.02	2.66	0.00	0.13	0.04	0.15	5.47	7.69	0.06	2.94
8	5/29/97	346	24.66667	-83.00833	0.04	0.35	0.04	0.29	0.01	0.06	0.10	0.19	6.26	6.08	0.14	0.53
8	5/29/97	347	24.65400	-82.99667	0.09	0.36	0.02	0.27	0.07	0.09	0.17	0.40	6.08	7.16	0.26	0.76
8	5/29/97	348	24.64167	-82.85500	0.15	0.21	0.12	0.14	0.03	0.07	0.24	0.32	9.03	7.67	0.38	0.53

SURV	DATE	STA	TON-S	TON-B	TP-S	TP-B	SRP-S	SRP-B	APA-S	APA-B	CHLA	TOC-S	TOC-B	SIO4-S	SIO4-B	TURB-S	TURB-B
8	6/18/97	308	17.78		0.30		0.01		0.18		0.19	1153.33		5.20		1.03	
8	6/4/97	309	9.38		0.22		0.00		0.05		0.52	266.79		0.49		0.31	
8	6/18/97	310	19.76		0.27		0.01		0.11		0.14	1395.00		6.70		1.06	
8	6/18/97	311	18.25		0.18		0.00		0.16		0.19	357.29		3.57		0.76	
8	6/4/97	312	8.63		0.22		0.02		0.04		0.33	249.77		0.96		0.33	
8	6/18/97	313	16.01		0.25		0.01		0.09		0.24	1435.42		2.74		0.81	
8	6/18/97	314	19.88		0.26		0.01		0.04		0.30	986.67		6.67		0.51	
8	6/4/97	315	9.48		0.21		0.00		0.05		0.37	240.94		1.67		0.30	
8	6/4/97	316	12.03		0.19		0.00		0.06		0.33	300.13		3.07		0.56	
8	6/4/97	317	13.61		0.20		0.00		0.11		0.37	326.40		3.67		0.48	
8	5/29/97	318	14.36	10.83	0.26	0.25	0.02	0.00	0.13	0.05	0.47	243.17	228.04	0.23	0.31	0.81	0.56
8	5/29/97	319	8.71	8.75	0.17	0.17	0.00	0.00	0.06	0.06	0.47	222.27	200.88	1.98	1.69	0.95	0.72
8	5/29/97	320	8.22	8.45	0.18	0.21	0.01	0.01	0.07	0.04	0.32	199.54	208.15	0.00	0.82	0.20	0.24
8	5/29/97	321	8.34	6.28	0.25	0.15	0.01	0.00	0.06	0.07	0.43	214.38	207.31	0.06	0.08	0.22	0.20
8	5/28/97	322	7.00	7.14	0.15	0.13	0.00	0.00	0.04	0.05	0.26	186.35	166.23	0.48	0.75	0.55	0.53
8	5/29/97	323	8.09	9.69	0.21	0.18	0.01	0.01	0.06	0.05	0.35	233.46	227.42	4.99	5.16	0.82	0.97
8	5/29/97	324	9.01	8.05	0.19	0.19	0.01	0.00	0.05	0.06	0.37	208.73	221.06	1.37	1.36	0.68	0.54
8	5/28/97	325		8.40	0.17	0.17	0.02	0.01	0.10	0.24	0.58	221.85	220.35	1.14	1.25	0.89	0.84
8	5/29/97	326	7.83	9.24	0.20	0.23	0.01	0.02	0.05	0.06	0.43	227.42	229.85	3.20	3.30	0.63	0.60
8	5/29/97	327	8.42	8.40	0.19	0.20	0.01	0.01	0.05	0.06	0.40	247.23	252.81	1.57	1.65	0.56	0.43
8	5/28/97	328	6.56	7.64	0.15	0.17	0.02	0.02	0.06	0.04	0.22	242.35	235.73	0.16	0.03	0.11	0.25
8	5/29/97	329	8.95	7.94	0.20	0.20	0.03	0.00	0.05	0.05	0.28	239.85	238.88	2.56	3.44	0.46	1.47
8	5/29/97	330	9.88	9.64	0.16	0.20	0.01	0.00	0.05	0.05	0.44	234.73	241.94	2.40	2.73	0.85	0.58
8	5/28/97	331	7.53	7.29	0.19	0.19	0.02	0.01	0.05	0.07	0.30	239.42	227.60	1.29	1.38	0.72	1.40
8	5/28/97	332	10.71	9.59	0.18	0.18	0.03	0.02	0.15	0.08	0.41	239.69	242.06	1.67	1.48	0.64	0.62
8	5/29/97	333	9.02	8.44	0.18	0.23	0.01	0.01	0.05	0.07	0.29	238.10	247.15	1.01	1.01	0.49	0.36
8	5/28/97	334	6.96	6.98	0.18	0.16	0.01	0.00	0.11	0.09	0.35	241.65	233.90	0.80	0.73	0.52	0.62
8	5/28/97	335	6.09	7.32	0.17	0.18	0.01	0.01	0.10	0.08	0.25	230.96	229.65	1.11	0.78	0.50	0.55
8	5/29/97	336	7.20	7.01	0.22	0.19	0.02	0.01	0.04	0.04	0.28	225.35	217.04	0.99	1.52	0.36	0.58
8	5/29/97	337	7.32	6.86	0.18	0.18	0.01	0.00	0.05	0.05	0.36	218.23	215.08	0.17	0.19	0.62	0.48
8	5/29/97	338	6.90	7.51	0.22	0.23	0.01	0.01	0.06	0.06	0.45	211.52	221.06	0.20	0.35	0.86	0.72
8	5/28/97	339	6.97	8.17	0.19	0.18	0.00	0.01	0.13	0.10	0.29	211.94	207.67	0.28	0.02	0.80	0.91
8	5/28/97	340	8.24	6.86	0.16	0.18	0.01	0.01	0.20	0.06	0.32	206.90	216.29	0.00	0.01	0.44	0.38
8	5/29/97	341	6.41	5.84	0.19	0.21	0.01	0.00	0.07	0.07	0.41	143.56	150.33	0.01	0.09	0.35	0.22
8	5/29/97	342	5.50	7.04	0.17	0.22	0.01	0.01	0.05	0.04	0.18	152.58	168.50	0.08	2.52	0.16	0.63
8	5/29/97	343	5.70	7.07	0.17	0.23	0.00	0.01	0.05	0.04	0.15	154.44	161.88	0.00	2.63	0.09	0.80
8	5/29/97	344	5.55	6.36	0.21	0.20	0.01	0.02	0.05	0.06	0.19	159.15	161.17	0.00	0.54	0.23	0.50
8	5/28/97	345	5.41	4.75	0.16	0.27	0.01	0.15	0.10	0.04	0.13	171.56	170.88	0.09	1.32	0.11	0.17
8	5/29/97	346	6.12	5.55	0.19	0.18	0.02	0.01	0.06	0.06	0.23	232.75	221.33	0.00	0.01	0.10	0.08
8	5/29/97	347	5.83	6.40	0.18	0.19	0.01	0.01	0.05	0.04	0.18	218.75	219.75	0.38	0.46	0.15	0.21
8	5/29/97	348	8.64	7.14	0.24	0.21	0.01	0.02	0.07	0.08	0.39	258.38	281.85	0.40	0.42	0.62	0.40

SURV	DATE	STA	SAL-S	SAL-B	TEMP-S	TEMP-B	DO-S	DO-B	Kd	TN:TP	%SAT_S	%SAT_B
8	6/18/97	308	35.00	35.00	32.10	32.20	7.00	7.30	0.292	63.61	108.04	112.73
8	6/4/97	309	36.50	36.50	30.20	30.20	6.80	6.80	0.217	48.05	104.68	104.68
8	6/18/97	310	35.80	35.80	32.00	31.90	5.30	5.40	0.247	82.18	82.16	83.66
8	6/18/97	311	35.70	35.70	31.60	31.60	5.80	5.70	0.198	133.69	89.65	88.10
8	6/4/97	312	36.30		29.90		6.80			42.52	104.33	
8	6/18/97	313	36.50	36.50	30.80	30.80	5.70	5.80	0.231	65.73	88.10	89.65
8	6/18/97	314	31.30	35.00	35.00	31.30	4.80	4.80	0.324	84.45	73.43	73.74
8	6/4/97	315	37.10	37.10	30.10	30.10	6.90	7.00	0.262	46.14	106.55	108.09
8	6/4/97	316	37.20	37.20	30.40	30.30	6.80	6.60	0.441	67.78	105.28	102.12
8	6/4/97	317	36.70	36.70	30.30	30.30	6.70	6.60	0.350	76.73	103.34	101.80
8	5/29/97	318	36.70	36.70	29.20	29.20	5.80	6.30	0.119	58.56	88.76	96.41
8	5/29/97	319	36.90	36.90	29.40	29.40	6.60	6.60	0.066	53.96	101.28	101.28
8	5/29/97	320	36.50	36.40	28.20	25.70	6.10	6.30	0.127	51.00	92.49	93.30
8	5/29/97	321	36.50	36.50	28.20	28.20	6.10	6.00	0.254	35.64	92.49	90.98
8	5/28/97	322	36.30	36.40	29.00	28.20	6.20	6.50	0.113	52.17	94.50	98.50
8	5/29/97	323	36.70	36.70	28.40	28.20	6.10	6.20	0.093	40.05	92.76	94.13
8	5/29/97	324	37.00	37.00	29.70	29.70	6.50	6.50	0.291	49.59	100.03	100.03
8	5/28/97	325	36.70	36.70	29.20	29.30	6.70	6.90	0.172	45.95	102.53	105.67
8	5/29/97	326	36.70	36.70	28.10	28.10	6.10	6.20	0.114	42.04	92.53	94.05
8	5/29/97	327	36.80	36.80	29.30	29.30	6.40	6.40	0.167	47.26	98.07	98.07
8	5/28/97	328	36.30	36.30	28.50	27.30	6.20	6.30	0.067	46.52	94.12	94.67
8	5/29/97	329	36.50	36.40	27.60	27.10	6.10	6.10	0.125	46.77	92.02	91.56
8	5/29/97	330	36.70	36.70	28.60	28.50	6.20	6.20	0.161	64.89	94.44	94.36
8	5/28/97	331	36.60	36.40	29.00	28.10	6.20	6.20	0.140	42.15	94.67	93.87
8	5/28/97	332	36.70	36.70	29.20	29.20	6.50	6.50	0.181	62.91	99.47	99.47
8	5/29/97	333	36.70	36.70	28.50	28.50	6.10	6.00	0.118	49.78	92.84	91.32
8	5/28/97	334	36.40	36.40	28.50	28.50	4.60	6.10	0.080	40.54	69.88	92.66
8	5/28/97	335	36.40	36.40	28.60	27.50	6.10	6.40	0.122	36.59	92.74	96.40
8	5/29/97	336	36.40	36.40	27.40	27.00	5.10	6.00	0.109	35.21	76.75	89.97
8	5/29/97	337	36.50	36.50	28.00	28.00	5.90	5.80	0.153	44.59	89.31	87.80
8	5/29/97	338	36.50	36.50	28.40	28.40	6.00	6.00	0.175	33.78	91.13	91.13
8	5/28/97	339	36.60	36.40	29.00	25.10	6.00	6.30	0.118	38.31	91.62	92.72
8	5/28/97	340	36.60	36.60	28.60	28.50	6.20	6.10	0.166	53.34	94.38	92.78
8	5/29/97	341	36.50	36.40	28.20	28.20	6.10	6.10	0.210	34.54	92.49	92.44
8	5/29/97	342	36.40	36.40	27.80	26.00	6.10	6.40	0.075	34.45	92.13	95.06
8	5/29/97	343	36.40	36.40	28.00	24.50	6.10	6.70	0.084	36.46	92.28	97.97
8	5/29/97	344	36.50	36.40	28.10	27.40	6.00	6.20	0.096	27.52	90.90	93.31
8	5/28/97	345	36.30	36.30	27.90	18.20	5.40	4.90	0.107	33.64	81.57	65.81
8	5/29/97	346	36.40	36.40	28.10	27.60	6.10	5.80	0.156	32.94	92.36	87.44
8	5/29/97	347	36.50	36.40	28.20	26.70	6.10	5.90	0.120	33.80	92.49	88.23
8	5/29/97	348	36.40	36.40	28.10	28.10	4.60	5.70	0.246	38.01	69.65	86.30

SURV	DATE	STA	LATDEC	LONDEC	NOX-S	NOX-B	NO3-S	NO3-B	NO2-S	NO2-B	NH4-S	NH4-B	TN-S	TN-B	TIN-S	TIN-B
8	5/29/97	349	24.63795	-82.93113	0.17	0.15	0.09	0.11	0.07	0.04	0.29	0.21	7.01	6.46	0.46	0.36
8	5/28/97	350	24.45000	-82.86667	0.06	0.08	0.04	0.03	0.02	0.05	0.15	0.33	6.68	6.73	0.21	0.41
9	7/29/97	200	25.59000	-80.10000	0.28	0.38	0.25	0.36	0.03	0.02	0.21	0.07	14.23	11.77	0.49	0.45
9	7/29/97	201	25.51000	-80.16500	0.50	0.42	0.45	0.37	0.05	0.05	0.27	0.16	16.67	16.62	0.77	0.58
9	7/29/97	202	25.49380	-80.15010	0.23	0.27	0.17	0.25	0.06	0.02	0.23	0.19	12.76	13.37	0.46	0.46
9	7/29/97	203	25.48053	-80.11768	0.37		0.32		0.05		0.27		12.43		0.63	
9	7/29/97	204	25.43082	-80.19553	0.36	0.16	0.30	0.09	0.06	0.07	0.19	0.34	17.11	16.03	0.55	0.50
9	7/29/97	205	25.42798	-80.18200	0.28	0.02	0.20	0.00	0.08	0.02	0.34	0.02	12.51	13.36	0.62	0.04
9	7/29/97	206	25.41497	-80.14300	0.04	0.05	0.03	0.04	0.01	0.01	0.05	0.07	12.68	13.95	0.09	0.12
9	7/29/97	207	25.36443	-80.21508	0.46		0.42		0.04		0.17		16.49		0.63	
9	7/29/97	208	25.35918	-80.20052	0.27	0.23	0.24	0.19	0.03	0.04	0.18	0.19	9.11	7.91	0.45	0.42
9	7/25/97	209	24.58570	-81.72272	0.66		0.59		0.07		0.78		19.51		1.44	
9	7/29/97	210	25.32500	-80.16360	0.23	0.03	0.20	0.00	0.03	0.03	0.23	0.22	6.76	6.38	0.46	0.25
9	7/29/97	211	25.30788	-80.26165	0.11	0.14	0.08	0.11	0.03	0.03	0.18	0.15	11.20		0.29	0.29
9	7/29/97	212	25.29452	-80.24542	0.31	0.10	0.28	0.06	0.03	0.04	0.29	0.32	11.18	9.13	0.59	0.42
9	7/29/97	213	25.26312	-80.18773	0.21	0.30	0.17	0.28	0.04	0.03	0.23	0.31	8.46	6.92	0.44	0.61
9	7/29/97	214	25.24620	-80.29918	0.41		0.37		0.04		0.17		9.83		0.58	
9	7/29/97	215	25.23667	-80.28897	0.38		0.34		0.04		0.42		8.24		0.80	
9	7/29/97	216	25.20450	-80.24425	0.04	0.24	0.00	0.21	0.04	0.03	0.16	0.23	6.46	5.87	0.20	0.47
9	7/29/97	217	25.17332	-80.33985	0.35		0.31		0.04		0.56		7.97		0.91	
9	7/29/97	218	25.15897	-80.29455	0.22		0.15		0.07		0.49		5.72		0.71	
9	7/30/97	219	25.12587	-80.26477	0.01	0.17	0.01	0.13	0.01	0.04	0.12	0.17	5.82	5.42	0.13	0.34
9	7/30/97	220	25.11355	-80.37342	0.06	0.09	0.03	0.07	0.04	0.02	0.35	0.40	7.41	6.61	0.42	0.50
9	7/30/97	221	25.11025	-80.36088	0.07	0.04	0.04	0.01	0.04	0.04	0.20	0.15	7.41	7.57	0.27	0.19
9	7/30/97	222	25.07237	-80.31277	0.26	0.16	0.20	0.12	0.05	0.03	0.13	0.20	6.31	6.09	0.39	0.35
9	7/31/97	223	25.06018	-80.42312	0.04		0.00		0.04		0.42		6.86		0.46	
9	7/31/97	224	25.03082	-80.39527	0.10		0.09		0.02		0.22		6.07		0.32	
9	7/30/97	225	25.00667	-80.37000	0.02	0.15	0.00	0.10	0.02	0.05	0.07	0.21	7.27	5.67	0.09	0.36
9	7/31/97	226	25.00840	-80.50148	0.18		0.13		0.05		0.84		12.16		1.02	
9	7/31/97	227	25.00167	-80.47490	0.08	0.11	0.03	0.06	0.05	0.05	0.44	0.40	10.08	7.93	0.52	0.50
9	7/30/97	228	24.97667	-80.45000	0.02	0.03	0.00	0.00	0.02	0.03	0.11	0.12	6.61	6.96	0.13	0.15
9	7/31/97	229	24.95012	-80.56218	0.22		0.15		0.07		0.29		10.76		0.51	
9	7/31/97	230	24.93965	-80.55162	0.04	0.10	0.01	0.07	0.03	0.04	0.16	0.17	7.00	7.61	0.20	0.27
9	7/30/97	231	24.91750	-80.51533	0.09	0.11	0.08	0.09	0.01	0.03	0.14	0.15	6.47	6.00	0.23	0.26
9	7/31/97	232	24.92703	-80.59852	0.11		0.07		0.04		0.31		11.55		0.42	
9	7/31/97	233	24.90185	-80.58238	0.05	0.03	0.04	0.01	0.01	0.02	0.14	0.12	7.09	6.96	0.19	0.15
9	7/30/97	234	24.86277	-80.56697	0.10	0.02	0.08	0.00	0.02	0.02	0.26	0.19	11.89	11.42	0.36	0.21
9	7/31/97	235	24.87123	-80.66865	0.31		0.21		0.11		0.81		17.18		1.12	
9	7/31/97	236	24.85970	-80.66240	0.07	0.12	0.04	0.09	0.03	0.03	0.12	0.12	12.06	9.61	0.19	0.25
9	7/30/97	237	24.83265	-80.64907	0.04	0.04	0.03	0.02	0.01	0.03	0.08	0.12	9.87	8.66	0.12	0.17
9	7/31/97	238	24.83442	-80.74683	1.08		0.95		0.12		1.38		22.46		2.45	

SURV	DATE	STA	TON-S	TON-B	TP-S	TP-B	SRP-S	SRP-B	APA-S	APA-B	CHLA	TOC-S	TOC-B	SIO4-S	SIO4-B	TURB-S	TURB-B
8	5/29/97	349	6.56	6.10	0.20	0.18	0.00	0.00	0.06	0.06	0.37	259.44	240.67	0.08	0.01	0.32	0.25
8	5/28/97	350	6.47	6.32	0.19	0.21	0.00	0.01	0.04	0.06	0.19	257.17	260.38	0.00	0.48	0.14	0.39
9	7/29/97	200	13.75	11.33	0.14	0.16	0.01	0.02	0.07	0.06	0.28	229.81	217.71	0.56	0.68	0.60	0.45
9	7/29/97	201	15.91	16.04	0.17	0.15	0.01	0.00	0.10	0.10	0.24	275.65	263.33	0.82	0.76	0.95	0.90
9	7/29/97	202	12.30	12.91	0.14	0.14	0.00	0.00	0.08	0.09	0.20	230.00	223.40	0.51	0.59	0.75	0.55
9	7/29/97	203	11.80		0.14		0.00		0.07		0.20	217.13		0.10		0.30	
9	7/29/97	204	16.57	15.53	0.13	0.13	0.00	0.00	0.10	0.11	0.26	249.44	253.63	0.97	0.99	0.75	0.75
9	7/29/97	205	11.89	13.32	0.13	0.13	0.00	0.00	0.09	0.10	0.20	220.58	220.73	0.53	0.50	0.65	0.70
9	7/29/97	206	12.59	13.83	0.15	0.16	0.00	0.00	0.06	0.06	0.20	200.54	198.69	0.37	0.25	0.30	0.35
9	7/29/97	207	15.86		0.13		0.01		0.09		0.16	220.31		0.70		0.70	
9	7/29/97	208	8.66	7.49	0.14	0.14	0.00	0.00	0.08	0.09	0.17	222.15	219.85	0.50	0.53	0.45	0.50
9	7/25/97	209	18.07		0.20		0.05		0.17		0.34	269.60		2.54		1.80	
9	7/29/97	210	6.30	6.13	0.14	0.15	0.00	0.00	0.06	0.05	0.25	197.71	197.42	0.44	0.30	0.30	0.15
9	7/29/97	211	10.91		0.14		0.00	0.00	0.08		0.28	251.02		0.86	0.85	0.55	
9	7/29/97	212	10.58	8.71	0.15	0.15	0.01	0.02	0.12	0.11	0.19	244.67	257.29	0.80	0.73	0.45	0.60
9	7/29/97	213	8.02	6.31	0.16	0.17	0.01	0.01	0.05	0.05	0.18	223.33	223.92	0.02	0.48	0.25	0.30
9	7/29/97	214	9.25		0.16		0.01		0.10		0.20	228.21		0.17		0.50	
9	7/29/97	215	7.44		0.14		0.00		0.10		0.16	245.67		0.90		0.55	
9	7/29/97	216	6.26	5.40	0.16	0.15	0.01	0.00	0.06	0.05	0.26	218.50	214.71	0.14	0.48	0.45	0.25
9	7/29/97	217	7.06		0.12		0.01		0.11		0.16	254.69		0.80		0.65	
9	7/29/97	218	5.01		0.11		0.00		0.06		0.17	229.79		0.13		0.40	
9	7/30/97	219	5.69	5.08	0.12	0.13	0.00	0.00	0.05	0.05	0.09	300.60	290.63	0.57	0.43	0.10	0.05
9	7/30/97	220	6.99	6.11	0.23	0.14	0.00	0.01	0.16	0.17	0.16	313.90	304.33	1.05	1.16	0.55	0.45
9	7/30/97	221	7.14	7.38	0.17	0.15	0.00	0.00	0.11	0.14	0.15	230.94	299.35	1.03	1.05	0.35	0.40
9	7/30/97	222	5.92	5.74	0.14	0.14	0.00	0.00	0.06	0.06	0.14	217.63	276.52	0.26	0.56	0.00	0.05
9	7/31/97	223	6.41		0.13		0.00		0.11		0.11	286.35		1.22		0.25	
9	7/31/97	224	5.75		0.16		0.00		0.07		0.14	266.46		0.06		0.00	
9	7/30/97	225	7.19	5.32	0.14	0.16	0.00	0.00	0.05	0.05	0.09	226.50	250.92	0.14	0.74	0.00	0.00
9	7/31/97	226	11.14		0.16		0.00		0.19		0.24	311.71		3.11		0.90	
9	7/31/97	227	9.56	7.43	0.18	0.14	0.00	0.00	0.08	0.07	0.10	266.31	265.15	0.20	0.28	0.15	0.25
9	7/30/97	228	6.48	6.81	0.14	0.16	0.00	0.00	0.07	0.07	0.16	247.48	243.73	0.03	0.00	0.35	0.05
9	7/31/97	229	10.26		0.16		0.00		0.14		0.16	288.00		0.49		0.55	
9	7/31/97	230	6.80	7.34	0.14	0.14	0.01	0.01	0.10	0.10	0.10	237.02	248.67	0.00	0.03	0.00	0.00
9	7/30/97	231	6.24	5.74	0.17	0.16	0.00	0.00	0.06	0.06	0.11	182.35	178.46	0.46	0.42	0.00	0.00
9	7/31/97	232	11.13		0.17		0.00		0.18		0.18	261.48		1.35		0.75	
9	7/31/97	233	6.90	6.81	0.15	0.16	0.01	0.00	0.06	0.11	0.16	189.67	195.75	0.33	0.39	0.00	0.05
9	7/30/97	234	11.53	11.21	0.13	0.13	0.00	0.01	0.06	0.05	0.11	179.60	176.50	0.42	0.52	0.00	0.00
9	7/31/97	235	16.06		0.13		0.02		0.22		0.24	280.40		3.25		1.80	
9	7/31/97	236	11.88	9.37	0.13	0.14	0.01	0.01	0.10	0.09	0.16	242.98	227.50	0.00	0.25	0.05	0.35
9	7/30/97	237	9.76	8.49	0.17	0.18	0.01	0.00	0.06	0.06	0.22	216.92	212.42	0.56	0.58	0.00	0.00
9	7/31/97	238	20.01		0.28		0.01		0.17		0.37	294.96		6.26		3.30	

SURV	DATE	STA	SAL-S	SAL-B	TEMP-S	TEMP-B	DO-S	DO-B	Kd	TN:TP	%SAT_S	%SAT_B
8	5/29/97	349	36.50	36.50	28.30	28.20	6.00	5.90	0.569	34.63	91.05	89.46
8	5/28/97	350	36.30	36.50	27.90	22.90	5.50	6.50	0.086	35.15	83.08	93.36
9	7/29/97	200	36.20	36.20	30.40	30.40	5.80	5.80	0.350	105.43	89.24	89.24
9	7/29/97	201	36.40	36.40	31.20	31.30	5.70	5.80		98.07	88.27	89.87
9	7/29/97	202	36.30	36.30	31.00	31.00	5.50	5.70	0.461	94.50	85.01	88.10
9	7/29/97	203	36.10	36.10	30.00	29.90	5.50	5.50		87.22	84.34	84.28
9	7/29/97	204	36.40	36.30	31.10	31.10	5.70	5.80	1.117	131.65	88.22	89.71
9	7/29/97	205	36.40	36.40	31.10	31.10	6.00	6.10	0.344	96.20	92.86	94.41
9	7/29/97	206	36.10	36.10	30.30	30.30	5.90	5.80	0.165	87.44	90.66	89.13
9	7/29/97	207	36.50	36.50	31.20	31.20	5.40	5.40		131.93	83.68	83.68
9	7/29/97	208	36.30	36.30	31.20	31.20	6.40	6.50	0.349	63.96	99.05	100.60
9	7/25/97	209	37.70	37.70	30.50	30.40	4.00	4.00	0.198	100.06	62.17	62.12
9	7/29/97	210	36.10	36.10	29.80	29.80	5.70	5.70	0.155	48.27	87.29	87.29
9	7/29/97	211	36.50	36.50	31.50	31.30	5.40	6.20	0.400	78.63	83.83	96.13
9	7/29/97	212	36.20	36.20	30.70	30.70	5.60	5.60	0.268	74.51	86.34	86.34
9	7/29/97	213	36.10	36.10	29.70	29.70	5.60	5.60	0.306	54.58	85.69	85.69
9	7/29/97	214	36.30	36.30	31.80	31.80	6.30	6.30		63.42	97.85	97.85
9	7/29/97	215	36.10	36.10	31.40	31.30	6.10	6.40	0.430	61.03	94.40	98.99
9	7/29/97	216	36.10	36.10	30.30	30.10	5.70	5.90	0.180	40.38	87.59	90.54
9	7/29/97	217	36.30	36.30	31.60	31.50	6.10	6.30	0.884	66.45	94.63	97.68
9	7/29/97	218	36.10	36.10	31.10	31.10	6.50	6.50	0.079	52.01	100.41	100.41
9	7/30/97	219	36.10	36.10	30.20	29.40	5.60	5.70	0.150	48.51	86.00	87.03
9	7/30/97	220	36.30	36.30	31.70	31.70	6.60	6.60	0.042	31.86	102.45	102.45
9	7/30/97	221	36.20	36.20	31.50	31.50	6.50	6.50		44.26	100.72	100.72
9	7/30/97	222	36.10	36.10	30.20	29.70	5.60	5.50	0.077	46.75	86.00	84.16
9	7/31/97	223	36.20	36.20	31.00	31.00	5.80	5.90	0.156	51.80	89.60	91.14
9	7/31/97	224	36.10	36.10	30.20	30.20	5.60	5.60	0.860	38.55	86.00	86.00
9	7/30/97	225	36.00	36.10	30.30	30.00	5.70	5.60	0.221	51.03	87.54	85.88
9	7/31/97	226		36.20		31.60		5.60		76.01	0.00	86.82
9	7/31/97	227	36.20	36.30	31.10	31.00	6.00	6.20	0.300	57.62	92.74	95.83
9	7/30/97	228	36.10	36.10	30.50	30.50	5.90	5.90	0.286	48.10	90.79	90.79
9	7/31/97	229	36.20	36.00	32.00	32.00	5.90	5.70		68.34	91.69	88.47
9	7/31/97	230	36.20	36.30	31.50	31.30	6.20	6.60	0.391	49.99	96.07	102.21
9	7/30/97	231	36.10	36.10	30.40	30.40	5.70	5.70	0.331	39.19	87.65	87.65
9	7/31/97	232		36.30		32.90		6.80		69.99		106.25
9	7/31/97	233	36.20	36.20	31.10	31.00	6.30	6.30	0.216	48.06	97.38	97.32
9	7/30/97	234	36.10	36.20	30.40	26.50	5.70	6.60	0.081	93.23	87.65	98.39
9	7/31/97	235	36.30	36.30	32.20	32.10	6.00	6.00	0.472	137.44	93.40	93.35
9	7/31/97	236	36.10	36.10	31.40	31.30	6.70	6.80		94.61	103.69	105.17
9	7/30/97	237	36.10	36.10	30.70	30.50	5.60	5.90		59.82	86.29	90.79
9	7/31/97	238	36.80	36.60	32.30	32.40	5.70	5.60	0.376	81.66	89.06	87.43

SURV	DATE	STA	LATDEC	LONDEC	NOX-S	NOX-B	NO3-S	NO3-B	NO2-S	NO2-B	NH4-S	NH4-B	TN-S	TN-B	TIN-S	TIN-B
9	7/31/97	239	24.80223	-80.71620	0.03	0.03	0.02	0.00	0.02	0.03	0.16	0.16	8.99	7.57	0.19	0.18
9	7/30/97	240	24.78453	-80.70570	0.04	0.04	0.01	0.02	0.03	0.03	0.17	0.21	7.87	8.77	0.22	0.25
9	7/31/97	241	24.80247	-80.80890	0.03		0.01		0.02		0.17		18.04		0.19	
9	7/31/97	242	24.79150	-80.81225	0.02	0.05	0.00	0.02	0.02	0.03	0.27	0.28	12.15	12.00	0.30	0.33
9	7/30/97	243	24.72935	-80.79348	0.03	0.02	0.01	0.00	0.02	0.02	0.15	0.15	9.65	8.18	0.17	0.17
9	7/31/97	244	24.79333	-80.86333	0.57	0.56	0.48	0.47	0.09	0.09	0.48	0.42	18.08	20.54	1.05	0.98
9	7/31/97	245	24.76167	-80.86167	0.55	0.52	0.47	0.45	0.07	0.07	0.26	0.24	19.89	18.45	0.80	0.75
9	7/30/97	246	24.71317	-80.85813	0.02	0.05	0.00	0.01	0.02	0.03	0.10	0.23	8.35	7.73	0.12	0.28
9	8/8/97	247	24.71318	-81.01115	0.32		0.26		0.06		0.38		15.05		0.71	
9	8/8/97	248	24.68392	-80.98310	0.19	0.14	0.15	0.12	0.04	0.02	0.22	0.21	9.91	7.34	0.41	0.35
9	8/8/97	249	24.66560	-80.97762	0.21	0.16	0.19	0.10	0.03	0.06	0.18	0.25	6.63	7.08	0.39	0.40
9	8/8/97	250	24.69193	-81.18245	0.84		0.74		0.10		0.26		12.77		1.10	
9	8/8/97	251	24.64502	-81.16508	0.48	0.58	0.41	0.53	0.07	0.05	0.36	0.33	12.57	12.69	0.84	0.91
9	8/8/97	252	24.60693	-81.15442	0.47	0.41	0.44	0.34	0.04	0.06	0.15	0.25	10.46	7.93	0.62	0.66
9	8/8/97	253	24.64537	-81.30723	1.38		1.27		0.12		0.60		15.46		1.98	
9	8/8/97	254	24.65792	-81.26502	0.37		0.29		0.09		0.46		11.42		0.83	
9	8/8/97	255	24.62168	-81.24308	0.30	0.25	0.24	0.19	0.06	0.06	0.33	0.51	10.80	11.28	0.62	0.76
9	8/8/97	256	24.58497	-81.23408	0.15	0.13	0.12	0.10	0.03	0.03	0.40	0.27	6.96	6.40	0.56	0.40
9	8/8/97	257	24.63333	-81.33732	0.49		0.41		0.08		0.54		14.76		1.02	
9	8/8/97	258	24.59323	-81.32422	0.22	0.67	0.17	0.60	0.05	0.08	0.46	0.66	10.39	13.02	0.68	1.33
9	8/8/97	259	24.57037	-81.32167	0.58	0.49	0.51	0.44	0.08	0.05	0.62	0.55	8.67	8.45	1.20	1.04
9	8/7/97	260	24.62550	-81.41662	0.78		0.70		0.08		0.42		18.00		1.20	
9	8/7/97	261	24.58333	-81.50000	0.02	0.07	0.01	0.04	0.01	0.03	0.23	0.34	12.11	12.40	0.25	0.41
9	8/7/97	262	24.58618	-81.41887	0.38	0.35	0.31	0.28	0.07	0.07	0.40	0.40	15.85	15.06	0.78	0.75
9	8/7/97	263	24.54843	-81.39742	0.02	0.01	0.01	0.00	0.01	0.01	0.15	0.21	7.21	6.71	0.17	0.22
9	7/30/97	264	24.94677	-80.45947	0.04	0.07	0.00	0.02	0.04	0.05	0.40	0.27	5.87	5.43	0.44	0.34
9	8/14/97	265	24.81667	-81.08333	0.21		0.10		0.11		0.20		15.46		0.40	
9	8/7/97	266	24.61105	-81.50527	0.26		0.20		0.06		0.44		13.75		0.70	
9	8/7/97	267	24.53008	-81.48730	0.26	0.29	0.21	0.24	0.05	0.04	0.32	0.20	10.81	7.15	0.58	0.49
9	8/7/97	268	24.58782	-81.57698	0.45		0.40		0.05		0.33		14.66		0.78	
9	8/7/97	269	24.55943	-81.55955	0.16	0.16	0.13	0.10	0.03	0.06	0.16	0.28	10.71	12.37	0.31	0.44
9	8/7/97	270	24.52162	-81.56432	0.20	0.30	0.15	0.25	0.05	0.05	0.27	0.24	8.96	8.34	0.46	0.54
9	8/7/97	271	24.55667	-81.66667	0.14	0.36	0.11	0.32	0.03	0.05	0.19	0.38	12.39	13.72	0.33	0.74
9	8/7/97	272	24.50548	-81.65433	0.13	0.03	0.11	0.01	0.02	0.01	0.10	0.14	6.87	7.29	0.23	0.17
9	8/7/97	273	24.49103	-81.65048	0.05	0.05	0.02	0.04	0.02	0.01	0.19	0.10	7.97	7.16	0.24	0.15
9	8/7/97	274	24.54167	-81.75000	0.29	0.40	0.25	0.35	0.04	0.05	0.20	0.30	12.93	13.34	0.49	0.70
9	8/7/97	275	24.52143	-81.74422	0.39	0.23	0.38	0.21	0.02	0.02	0.18	0.19	19.28	14.96	0.57	0.42
9	8/7/97	276	24.47538	-81.73742	0.17	0.37	0.15	0.35	0.01	0.02	0.18	0.17	9.53	9.16	0.35	0.53
9	8/7/97	277	24.51762	-81.82110	1.09	1.19	0.99	1.10	0.10	0.10	0.29	0.36	11.67	13.13	1.38	1.55
9	8/7/97	278	24.49862	-81.81895	0.43	0.83	0.37	0.73	0.06	0.10	0.21	0.31	13.73	16.73	0.64	1.14
9	8/7/97	279	24.45803	-81.81297	0.11	0.06	0.08	0.05	0.03	0.01	0.24	0.08	10.08	6.76	0.35	0.13

SURV	DATE	STA	TON-S	TON-B	TP-S	TP-B	SRP-S	SRP-B	APA-S	APA-B	CHLA	TOC-S	TOC-B	SIO4-S	SIO4-B	TURB-S	TURB-B
9	7/31/97	239	8.80	7.38	0.15	0.14	0.00	0.01	0.07	0.08	0.17	208.02	202.19	0.53	0.41	0.00	0.00
9	7/30/97	240	7.66	8.52	0.15	0.16	0.01	0.01	0.05	0.06	0.13	207.77	243.27	0.33	0.25	0.00	0.10
9	7/31/97	241	17.85		0.16		0.01		0.25		0.30	335.21		1.62		0.65	
9	7/31/97	242	11.85	11.67	0.14	0.17	0.00	0.00	0.16	0.16	0.24	279.73	277.13	1.83	1.84	0.75	0.40
9	7/30/97	243	9.48	8.02	0.14	0.17	0.00	0.00	0.06	0.06	0.15	230.71	235.77	0.29	0.38	0.00	0.00
9	7/31/97	244	17.03	19.56	0.20	0.22	0.00	0.00	0.13	0.14	0.25	326.19	356.27	4.38	4.57	2.35	2.95
9	7/31/97	245	19.09	17.70	0.19	0.19	0.00	0.00	0.11	0.11	0.39	334.44	333.21	2.37	1.91	1.75	1.65
9	7/30/97	246	8.23	7.46	0.16	0.14	0.00	0.00	0.06	0.06	0.19	226.13	235.21	0.69	0.58	0.00	0.00
9	8/8/97	247	14.34		0.21		0.01		0.07		0.44	248.81		2.39		0.61	
9	8/8/97	248	9.51	6.99	0.18	0.17	0.02	0.00	0.05	0.05	0.17	201.08	183.02	0.87	0.73	0.29	0.21
9	8/8/97	249	6.24	6.68	0.19	0.18	0.01	0.01	0.04	0.04	0.09	200.85	200.79	0.36	0.59	0.20	0.42
9	8/8/97	250	11.68		0.24		0.00		0.06		0.32	241.33		2.09		0.58	
9	8/8/97	251	11.74	11.78	0.23	0.22	0.02	0.02	0.07	0.07	0.51	248.52	245.42	2.81	2.32	0.78	0.66
9	8/8/97	252	9.84	7.28	0.19	0.18	0.00	0.00	0.06	0.04	0.17	194.40	183.77	1.32	0.51	0.26	0.27
9	8/8/97	253	13.48		0.23		0.01		0.06		0.28	243.79		3.16		0.83	
9	8/8/97	254	10.59		0.19		0.00		0.06		0.32	229.79		3.02		0.91	
9	8/8/97	255	10.18	10.53	0.23	0.23	0.00	0.00	0.08	0.08	0.33	266.06	258.92	2.45	3.46	0.47	0.68
9	8/8/97	256	6.41	6.00	0.19	0.18	0.00	0.01	0.06	0.04	0.18	179.10	212.67	1.43	1.20	0.25	0.41
9	8/8/97	257	13.73		0.19		0.04		0.06		0.23	266.08		1.40		0.44	
9	8/8/97	258	9.71	11.69	0.18		0.03	0.04	0.07	0.09	0.30	245.71	212.83	4.21	4.01	0.46	0.74
9	8/8/97	259	7.47	7.41	0.18	0.20	0.05	0.03	0.07	0.05	0.17	183.40	176.35	2.57	1.94	0.79	0.60
9	8/7/97	260	16.80		0.20		0.01		0.10		0.42	272.48		3.31		1.55	
9	8/7/97	261	11.87	12.00	0.18	0.19	0.02	0.01	0.08	0.10	0.18	262.83	268.71	2.15	2.11	0.50	0.58
9	8/7/97	262	15.08	14.31	0.21	0.21	0.01	0.00	0.09	0.09	0.28	291.60	297.44	3.09	3.50	0.59	0.63
9	8/7/97	263	7.04	6.49	0.17	0.18	0.00	0.01	0.07	0.05	0.13	223.00	219.42	0.48	0.49	0.40	0.33
9	7/30/97	264	5.43	5.09	0.14	0.13	0.00	0.00	0.05	0.06	0.08	221.77	222.08	0.39	0.31	0.00	0.00
9	8/14/97	265	15.06		0.15		0.05		0.24		0.29	356.92		127.11		0.50	
9	8/7/97	266	13.05		0.22		0.00		0.08		0.30	288.65		3.17		0.60	
9	8/7/97	267	10.23	6.66	0.20	0.21	0.00	0.00	0.06	0.04	0.17	226.67	220.29	1.65	0.60	0.22	0.20
9	8/7/97	268	13.89		0.20		0.00		0.08		0.46	284.50		2.80		0.82	
9	8/7/97	269	10.40	11.93	0.21	0.23	0.00	0.00	0.08	0.11	0.38	247.17	254.90	3.04	2.91	0.68	0.70
9	8/7/97	270	8.50	7.81	0.18	0.20	0.00	0.01	0.07	0.08	0.25	229.54	256.02	1.58	1.70	0.27	0.29
9	8/7/97	271	12.06	12.98	0.22	0.23	0.00	0.00	0.09	0.11	0.44	331.35	332.90	3.46	3.68	1.14	1.18
9	8/7/97	272	6.64	7.12	0.20	0.19	0.00	0.00	0.06	0.06	0.24	267.27	262.13	0.93	0.57	0.19	0.22
9	8/7/97	273	7.74	7.01	0.18	0.18	0.00	0.00	0.06	0.05	0.23	253.73	243.15	0.60	0.69	0.46	0.20
9	8/7/97	274	12.45	12.64	0.22	0.15	0.01	0.00	0.08	0.09	0.40	287.94	286.81	3.57	2.89	0.48	0.46
9	8/7/97	275	18.71	14.54	0.15	0.15	0.02	0.00	0.09	0.10	0.43	261.10	263.65	3.82	3.55	0.58	0.61
9	8/7/97	276	9.18	8.63	0.16	0.13	0.01	0.00	0.05	0.04	0.21	228.38	218.83	0.98	1.03	0.28	0.08
9	8/7/97	277	10.29	11.57	0.20	0.19	0.00	0.00	0.05	0.05	0.66	231.46	239.08	2.44	2.48	0.54	0.50
9	8/7/97	278	13.09	15.59	0.18	0.20	0.01	0.01	0.09	0.07	0.78	259.90	260.48	4.01	3.95	0.78	1.16
9	8/7/97	279	9.74	6.63	0.14	0.15	0.00	0.00	0.06	0.04	0.33	212.19	201.08	1.52	0.91	0.17	0.28

SURV	DATE	STA	SAL-S	SAL-B	TEMP-S	TEMP-B	DO-S	DO-B	Kd	TN:TP	%SAT_S	%SAT_B
9	7/31/97	239	36.00	36.10	31.20	30.80	6.10	6.50	0.292	61.99	94.23	100.22
9	7/30/97	240	36.10	36.10	30.50	30.40	5.80	5.90	0.086	53.37	89.25	90.73
9	7/31/97	241	36.90	37.00	32.60	32.60	6.90	7.20	0.406	110.99	108.04	112.81
9	7/31/97	242	36.30	36.40	31.70	31.60	6.20	6.50	0.120	85.24	96.24	100.90
9	7/30/97	243	36.10	36.20	30.50	28.80	5.80	6.40	0.081	67.71	89.25	97.33
9	7/31/97	244	36.70	36.70	32.20	32.20	6.00	6.00	0.152	90.41	93.63	93.63
9	7/31/97	245	36.90	36.90	32.00	31.90	5.60	5.70	0.094	103.32	87.40	88.91
9	7/30/97	246	36.10	36.10	30.70	30.50	5.70	6.00	0.031	53.88	87.83	92.33
9	8/8/97	247	37.10	37.30	32.70	32.80	5.50	6.00	0.187	71.66	86.27	94.28
9	8/8/97	248	36.20	36.10	31.60	31.20	5.80	6.10	0.116	56.65	89.93	94.29
9	8/8/97	249	35.70	35.90	30.80	30.90	5.70	5.90	0.173	35.35	87.67	90.91
9	8/8/97	250	36.90	36.90	33.00	33.00	5.10	5.10	0.322	53.23	80.02	80.02
9	8/8/97	251	36.90	36.90	32.60	32.50	5.60	5.50	0.295	54.65	87.69	86.08
9	8/8/97	252	36.20	36.10	31.30	30.70	5.70	5.60	0.105	54.31	88.22	86.29
9	8/8/97	253	37.20	37.20	32.10	32.10	3.00	3.00	0.529	67.24	46.94	46.94
9	8/8/97	254	36.80	36.90	33.20	32.90		6.60	0.641	60.10		103.50
9	8/8/97	255	36.70	36.70	32.30	32.20	5.40	5.50	0.203	46.96	84.32	85.83
9	8/8/97	256	36.20	36.10	31.20	28.40	5.70	6.20	0.083	37.65	88.16	93.93
9	8/8/97	257	37.10	37.20	32.10	32.10	4.00	4.00		79.77	62.54	62.58
9	8/8/97	258	36.50	36.80	31.80	32.20	5.70	5.20	0.226	57.71	88.64	81.20
9	8/8/97	259	36.30	36.30	31.30	31.30	5.50	5.40	0.210	48.84	85.17	83.62
9	8/7/97	260	37.20	37.20	33.40	33.40	6.10	6.10		88.91	96.07	96.07
9	8/7/97	261	36.70	36.80	32.80	32.50	5.40	5.80	0.369	66.38	84.54	90.71
9	8/7/97	262	37.00	37.00	32.50	32.60	5.50	5.40	0.295	74.61	86.13	84.61
9	8/7/97	263	36.20	36.10	31.10	30.50	5.90	5.50	0.102	41.79	91.20	84.63
9	7/30/97	264	36.10	36.10	30.20	30.20	5.70	5.70	0.128	42.66	87.53	87.53
9	8/14/97	265	36.40	36.40	31.40	31.40	6.00	6.10		101.38	93.03	94.58
9	8/7/97	266	37.20	37.60	33.30	32.80		6.00	0.153	63.20		94.45
9	8/7/97	267	36.30	36.10	31.30	30.40	5.70	5.20	0.258	54.06	88.27	79.96
9	8/7/97	268	37.20	37.50	33.10	33.00	5.30	5.90	0.393	74.25	83.35	92.91
9	8/7/97	269	36.60	36.60	32.20	32.10	5.60	5.80	0.193	52.26	87.34	90.41
9	8/7/97	270	36.20	36.20	31.20	31.20	5.70	5.60	0.144	49.09	88.16	86.61
9	8/7/97	271	36.80	36.90	32.40	32.40	5.50	5.60	0.265	56.30	85.98	87.59
9	8/7/97	272	36.10	36.10	30.90	30.90	5.80	5.80	0.170	34.76	89.48	89.48
9	8/7/97	273	36.10	36.10	30.70	29.70	5.80	5.40	0.092	43.69	89.37	82.63
9	8/7/97	274	36.90	37.00	32.60	32.50	5.50	5.90	0.262	58.79	86.12	92.39
9	8/7/97	275	36.50	37.50	32.10	32.40	5.60	4.60	0.214	126.40	87.24	72.22
9	8/7/97	276	36.10	36.10	30.90	30.60	5.60	5.60	0.092	60.50	86.40	86.23
9	8/7/97	277	37.00	37.00	32.80	32.40	5.50	4.90	0.246	59.84	86.26	76.69
9	8/7/97	278	37.00	37.00	32.60	32.40	5.40	5.20	0.321	75.25	84.61	81.39
9	8/7/97	279	36.30	36.20	31.00	27.90	5.60	6.20	0.093	70.75	86.56	93.60

SURV	DATE	STA	LATDEC	LONDEC	NOX-S	NOX-B	NO3-S	NO3-B	NO2-S	NO2-B	NH4-S	NH4-B	TN-S	TN-B	TIN-S	TIN-B
9	8/7/97	280	24.45363	-81.84365	0.06	0.58	0.06	0.54	0.01	0.04	0.05	0.36	8.15	7.55	0.11	0.95
9	7/16/97	281	24.49500	-81.89167	0.02	0.02	0.01	0.00	0.01	0.02	0.22	0.27	8.32	10.02	0.24	0.29
9	8/14/97	282	24.86667	-80.88500	0.17		0.03		0.15		0.49		22.18		0.66	
9	8/14/97	283	24.90000	-81.00000	0.15		0.02		0.13		0.42		15.67		0.56	
9	8/14/97	284	24.87667	-80.95833	0.19		0.07		0.13		0.37		20.97		0.56	
9	8/14/97	285	24.80998	-80.92028	0.52		0.36		0.16		0.38		19.95		0.89	
9	8/14/97	286	24.78333	-80.92395	0.44		0.30		0.15		0.46		17.24		0.90	
9	8/14/97	287	24.84667	-81.00833	0.25		0.13		0.12		0.22		18.02		0.47	
9	8/14/97	288	24.88333	-81.08333	0.25		0.10		0.16		0.23		17.05		0.49	
9	8/14/97	289	24.77775	-81.03300	0.88		0.64		0.24		0.89		25.40		1.77	
9	8/14/97	290	24.86267	-81.21623	0.19		0.10		0.09		0.37		13.92		0.56	
9	8/14/97	291	24.81682	-81.14678	0.12		0.08		0.04		0.28		14.54		0.40	
9	8/14/97	292	24.76312	-81.11248	0.27		0.19		0.09		0.39		21.98		0.67	
9	8/14/97	293	24.73753	-81.10930	0.53		0.43		0.10		0.37		17.54		0.90	
9	8/14/97	294	24.75550	-81.17218	0.11		0.06		0.05		0.21		18.04		0.33	
9	7/26/97	295	24.85163	-81.35123	0.12		0.09		0.03		0.34		17.98		0.46	
9	8/14/97	296	24.79152	-81.28908	0.28		0.16		0.12		0.56		20.52		0.84	
9	8/14/97	297	24.74077	-81.21118	0.17		0.10		0.07		0.20		14.70		0.36	
9	7/26/97	298	24.84085	-81.43112	0.12		0.01		0.11		0.33		15.58		0.45	
9	7/26/97	299	24.68737	-81.34182	2.03		1.72		0.31		1.97		24.51		4.01	
9	7/26/97	300	24.70882	-81.30923	0.27		0.15		0.12		0.73		17.65		1.00	
9	7/26/97	301	24.77258	-81.39665	0.23		0.14		0.09		0.66		17.46		0.89	
9	7/26/97	302	24.80128	-81.48227	0.40		0.33		0.08		0.59		18.63		0.99	
9	7/26/97	303	24.69242	-81.39198	1.07		0.90		0.16		1.52		23.37		2.58	
9	7/26/97	304	24.71220	-81.45157	1.40		1.27		0.12		0.95		21.39		2.35	
9	7/26/97	305	24.76852	-81.55500	0.19		0.13		0.06		0.42		16.26		0.61	
9	7/26/97	306	24.73770	-81.59247	0.21		0.14		0.07		0.46		15.98		0.67	
9	7/26/97	307	24.72503	-81.52052	0.61		0.34		0.27		0.63		17.26		1.24	
9	7/26/97	308	24.69430	-81.48820	0.45		0.32		0.14		0.82		21.10		1.27	
9	7/25/97	309	24.69772	-81.68318	0.48		0.38		0.10		0.61		16.58		1.09	
9	7/25/97	310	24.65752	-81.63265	2.30		2.18		0.13		1.35		22.46		3.65	
9	7/25/97	311	24.61762	-81.65008	2.34		2.21		0.13		1.16		21.78		3.50	
9	7/25/97	312	24.65978	-81.76343	0.19		0.14		0.06		0.51		14.97		0.70	
9	7/25/97	313	24.64157	-81.73210	0.17		0.12		0.05		0.76		18.67		0.92	
9	7/25/97	314	24.75043	-81.43578	0.85		0.78		0.07		0.88		19.30		1.73	
9	7/25/97	315	24.63325	-81.82827	0.07		0.04		0.04		0.32		14.31		0.39	
9	7/25/97	316	24.58577	-81.80240	0.71		0.58		0.12		0.64		16.43		1.34	
9	7/25/97	317	24.57500	-81.78833	1.07		0.92		0.16		1.20		23.30		2.27	
9	7/17/97	318	24.65083	-81.90467	0.07	0.06	0.06	0.06	0.01	0.00	0.61	0.20	12.94	12.53	0.68	0.26
9	7/17/97	319	24.62900	-82.07133	0.06	0.10	0.03	0.07	0.03	0.03	0.65	0.47	13.66	10.70	0.71	0.57
9	7/17/97	320	24.65167	-82.96667	0.13	0.05	0.10	0.02	0.03	0.04	0.50	0.26	11.62	10.68	0.63	0.31

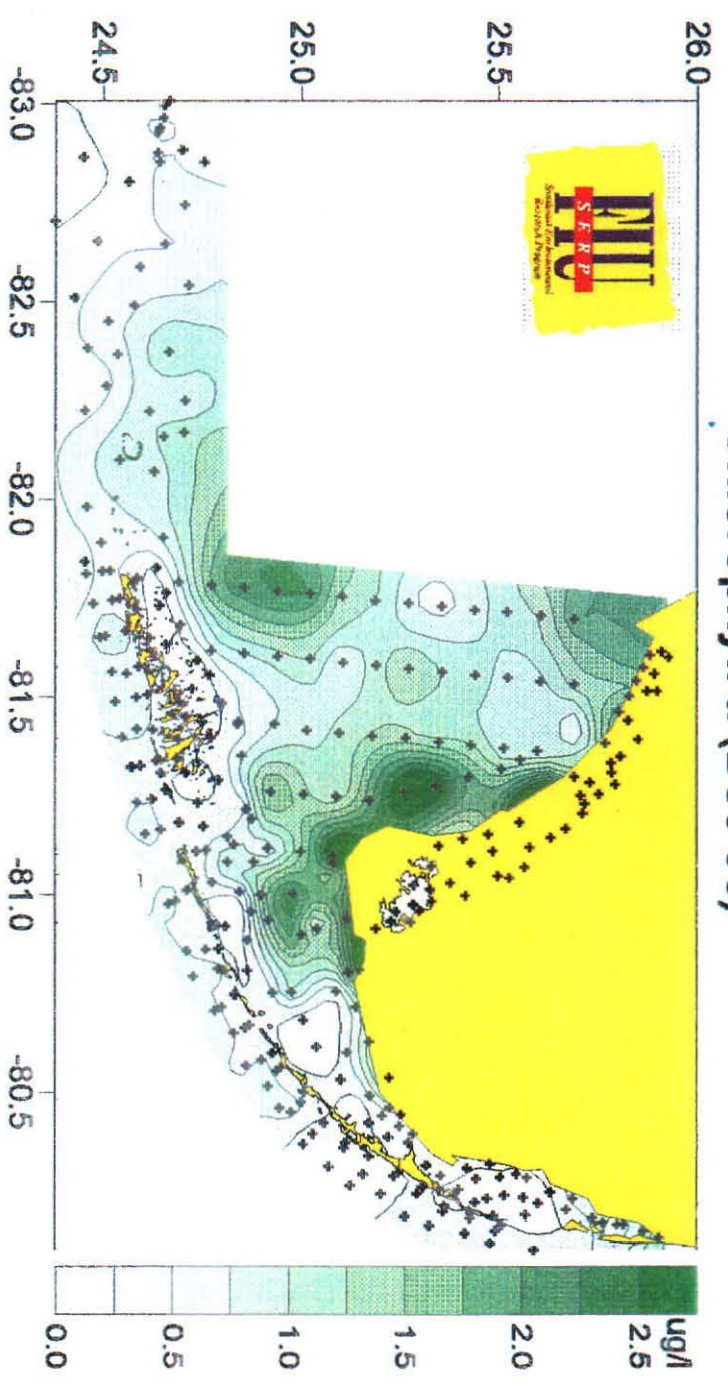
SURV	DATE	STA	TON-S	TON-B	TP-S	TP-B	SRP-S	SRP-B	APA-S	APA-B	CHLA	TOC-S	TOC-B	SIO4-S	SIO4-B	TURB-S	TURB-B
9	8/7/97	280	8.03	6.61	0.14	0.16	0.00	0.01	0.06	0.04	0.26	173.21	166.38	1.47	1.41	0.23	0.60
9	7/16/97	281	8.08	9.73	0.17	0.18	0.01	0.01	0.02	0.05	0.22	256.27	255.42	1.50	2.35	0.69	2.40
9	8/14/97	282	21.52		0.20		0.00		0.19			378.88		6.55		1.15	
9	8/14/97	283	15.11		0.18		0.02		0.12		0.30	325.75		89.00		0.30	
9	8/14/97	284	20.41		0.17		0.01		0.12		0.30	368.92		80.25		0.35	
9	8/14/97	285	19.06		0.15		0.00		0.17		0.33	344.60		3.58		0.95	
9	8/14/97	286	16.34		0.16		0.01		0.16		0.27	320.06		3.47		2.45	
9	8/14/97	287	17.56		0.14		0.01		0.20		0.31	346.77		88.53		0.35	
9	8/14/97	288	16.57		0.22		0.00		0.21		0.29	313.23		5.27		0.55	
9	8/14/97	289	23.63		0.16		0.00		0.21		0.41	370.33		24.09		0.85	
9	8/14/97	290	13.36		0.23		0.01		0.14		0.37	280.42		1.71		0.55	
9	8/14/97	291	14.15		0.19		0.01		0.14		0.31	305.44		5.46		0.25	
9	8/14/97	292	21.32		0.14		0.00		0.23		0.27	354.21		5.96		0.60	
9	8/14/97	293	16.64		0.16		0.00		0.17		0.27	299.90		3.70		0.80	
9	8/14/97	294	17.71		0.15		0.00		0.16		0.25	311.63		5.90		0.45	
9	7/26/97	295	17.52		0.28		0.01		0.12		0.32	269.71		2.65		1.15	
9	8/14/97	296	19.68		0.20		0.01		0.26		0.48	344.10		11.27		0.35	
9	8/14/97	297	14.34		0.16		0.00		0.18		0.51	299.10		3.06		0.30	
9	7/26/97	298	15.13		0.23		0.01		0.10		0.35	253.27		1.55		0.70	
9	7/26/97	299	20.51		0.22		0.01		0.10		0.29	301.54		3.52		0.45	
9	7/26/97	300	16.65		0.20		0.00		0.10		0.25	267.94		4.58		0.75	
9	7/26/97	301	16.58		0.20		0.00		0.15		0.32	270.98		3.37		0.70	
9	7/26/97	302	17.64		0.21		0.01		0.07		0.33	251.83		1.30		0.45	
9	7/26/97	303	20.79		0.18		0.03		0.25		0.29	318.10		4.27		0.90	
9	7/26/97	304	19.04		0.17		0.02		0.12		0.21	272.52		3.00		1.20	
9	7/26/97	305	15.65		0.20		0.00		0.07		0.29	245.02		1.67		0.45	
9	7/26/97	306	15.31		0.20		0.01		0.10		0.28	235.25		1.68		1.05	
9	7/26/97	307	16.02		0.21		0.00		0.08		0.37	242.04		2.90		2.10	
9	7/26/97	308	19.83		0.20		0.00		0.14		0.22	283.67		3.36		1.70	
9	7/25/97	309	15.49		0.22		0.03		0.09		0.18	238.63		0.99		1.20	
9	7/25/97	310	18.81		0.17		0.02		0.18		0.22	269.04		2.32		1.65	
9	7/25/97	311	18.28		0.15		0.01		0.17		0.12	284.63		2.10		1.85	
9	7/25/97	312	14.28		0.21		0.00		0.09		0.39	230.46		1.39		1.00	
9	7/25/97	313	17.75		0.21		0.02		0.13		0.24	269.08		3.01		2.50	
9	7/25/97	314	17.58		0.21		0.01		0.14		0.43	301.29		4.09		0.80	
9	7/25/97	315	13.92		0.22		0.01		0.11		0.31	255.48		1.35		0.60	
9	7/25/97	316	15.09		0.19		0.04		0.09		0.28	278.90		3.04		1.65	
9	7/25/97	317	21.04		0.20		0.02		0.09		0.10	293.90		2.61		0.70	
9	7/17/97	318	12.26	12.27	0.20	0.23	0.02	0.00	0.07	0.06	0.57	269.06	258.19	2.64	2.96	0.58	0.46
9	7/17/97	319	12.96	10.14	0.23	0.20	0.00	0.01	0.06	0.07	0.40	256.85	248.52	3.34	3.39	0.37	0.28
9	7/17/97	320	11.00	10.38	0.15	0.17	0.00	0.00	0.03	0.03	0.25	229.40	227.65	0.68	1.00	0.15	0.37

SURV	DATE	STA	SAL-S	SAL-B	TEMP-S	TEMP-B	DO-S	DO-B	Kd	TN:TP	%SAT_S	%SAT_B
9	8/7/97	280	36.20	36.20	30.90	29.70	5.70	5.40	0.098	58.18	87.99	82.68
9	7/16/97	281	35.80	36.20	30.80	30.70	5.80	5.50	0.154	50.41	89.26	84.80
9	8/14/97	282	36.10	36.10	31.20	31.20	7.90	7.90		110.88	122.11	122.11
9	8/14/97	283	36.50	36.50	31.40	31.40	8.10	8.10		88.28	125.67	125.67
9	8/14/97	284	36.50	36.50	31.30	31.30	6.20	6.30		127.09	96.13	97.68
9	8/14/97	285	36.80	36.80	32.00	32.00	7.10	7.30		135.25	110.74	113.86
9	8/14/97	286	36.60	36.50	32.30	32.40	7.20	7.20		111.25	112.35	112.34
9	8/14/97	287	35.80	35.80	31.30	31.30	5.80	5.80		126.48	89.54	89.54
9	8/14/97	288	36.10	36.10	31.40	31.40	6.80	6.90		79.31	105.24	106.79
9	8/14/97	289	36.90	36.90	32.00	32.00	6.90	7.00		161.27	107.69	109.25
9	8/14/97	290	36.00	36.00	31.50	31.50	7.40	7.60		59.87	114.52	117.62
9	8/14/97	291	36.70	36.60	31.60	31.70	7.20	7.50		76.55	111.98	116.64
9	8/14/97	292	36.80	36.80	32.30	32.30	7.60	7.60		157.00	118.74	118.74
9	8/14/97	293	37.10	37.10	32.00	32.00	7.30	7.50		109.61	114.08	117.20
9	8/14/97	294	36.40	36.30	31.70	31.70	6.90	6.90		122.29	107.18	107.11
9	7/26/97	295	36.50	36.50	30.90	30.80	7.20	7.50	0.270	65.37	111.36	115.92
9	8/14/97	296	36.50	36.60	32.50	32.50	7.20	7.30		103.89	112.40	114.04
9	8/14/97	297	36.80	36.80	31.70	31.70	7.00	7.10		94.86	109.00	110.55
9	7/26/97	298	37.00	37.00	30.80	30.70	5.80	5.90	0.200	68.48	89.93	91.42
9	7/26/97	299	36.60	36.60	29.90	29.90	4.40	4.40	0.361	110.17	67.64	67.64
9	7/26/97	300	36.80	36.80	29.90	29.90	5.50	5.60	0.241	88.23	84.65	86.19
9	7/26/97	301	36.20	36.20	30.00	30.00	5.70	5.90	0.343	87.31	87.46	90.53
9	7/26/97	302	36.90	36.90	30.90	30.70	6.10	6.30	0.102	88.70	94.58	97.55
9	7/26/97	303	36.40	36.40	31.10	31.00	7.20	7.40	0.326	133.57	111.43	114.45
9	7/26/97	304	36.80	36.80	30.70	30.60	6.30	6.50	0.236	124.00	97.49	100.52
9	7/26/97	305	37.20	37.20	31.20	31.20	7.30	7.30	0.413	83.36	113.61	113.61
9	7/26/97	306	37.30	37.30	30.90	30.90	6.30	6.40	0.267	80.92	97.92	99.48
9	7/26/97	307	36.50	36.60	30.50	30.50	6.60	6.60	0.488	83.19	101.81	101.87
9	7/26/97	308	36.50	36.50	31.30	31.20	7.70	7.80	0.299	104.19	119.39	120.87
9	7/25/97	309	37.50	37.50	31.80	31.70	7.10	6.90	0.220	76.22	111.10	107.91
9	7/25/97	310	35.90	35.90	30.80	30.80	5.40	5.50	0.280	136.15	83.15	84.69
9	7/25/97	311	36.60	36.60	30.90	30.90	5.40	5.30	0.172	147.64	83.57	82.02
9	7/25/97	312	37.60	37.50	31.40	31.30	6.80	7.10	0.248	73.03	106.22	110.77
9	7/25/97	313	37.70	37.70	32.70	31.80	8.80	7.20	0.351	88.90	138.54	112.80
9	7/25/97	314	36.10	36.10	31.10	31.00	6.80	7.60	0.339	94.15	105.04	117.33
9	7/25/97	315	37.30	37.30	31.60	31.50	7.00	7.50	0.161	66.55	109.27	117.01
9	7/25/97	316	37.10	37.00	31.10	31.00	5.10	5.10	0.093	86.47	79.27	79.17
9	7/25/97	317	37.30	37.20	30.70	30.60	5.40	5.70	0.463	115.07	83.83	88.37
9	7/17/97	318	37.00	37.00	32.30	32.10	5.90	6.10	0.185	64.71	92.29	95.32
9	7/17/97	319	36.70	36.70	32.10	32.10	6.10	6.10	0.170	59.39	95.14	95.14
9	7/17/97	320	36.20	36.30	30.50	27.40	5.60	6.10	0.069	76.22	86.22	91.75

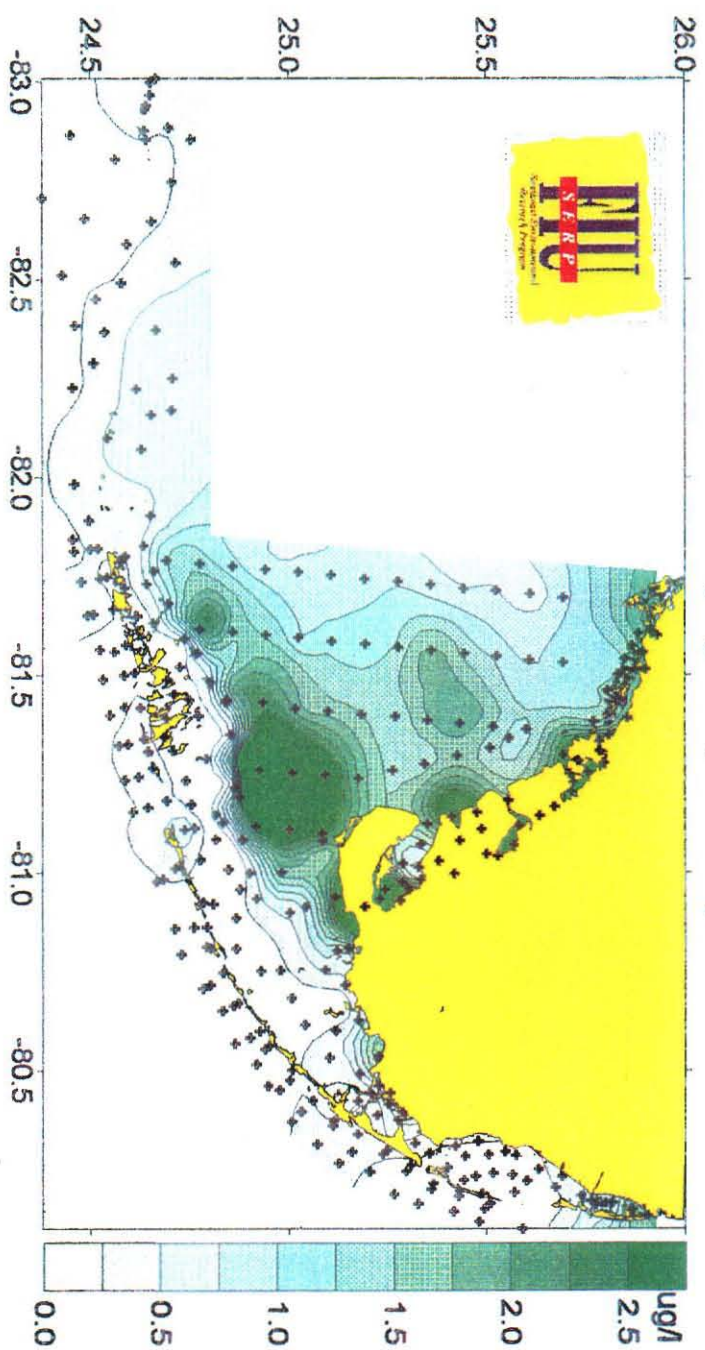
SURV	DATE	STA	LATDEC	LONDEC	NOX-S	NOX-B	NO3-S	NO3-B	NO2-S	NO2-B	NH4-S	NH4-B	TN-S	TN-B	TIN-S	TIN-B
9	7/17/97	321	24.64167	-82.94000	0.39	0.44	0.31	0.37	0.08	0.07	0.26	0.21	11.44	9.87	0.65	0.65
9	7/16/97	322	24.45833	-81.98167	0.12	0.08	0.10	0.06	0.02	0.03	0.25	0.32	10.99	9.25	0.37	0.41
9	7/17/97	323	24.70500	-82.17000	0.11	0.01	0.10	0.00	0.01	0.01	0.97	0.25	15.17	11.70	1.08	0.26
9	7/17/97	324	24.65333	-82.15833	0.05	0.05	0.00	0.01	0.05	0.04	0.90	0.32	19.72	9.71	0.95	0.37
9	7/16/97	325	24.54167	-82.10000	0.19	0.10	0.15	0.03	0.04	0.07	0.44	0.57	13.26	11.99	0.64	0.67
9	7/17/97	326	24.70833	-82.25000	0.04	0.03	0.00	0.00	0.04	0.03	0.37	0.29	11.14	9.86	0.41	0.31
9	7/17/97	327	24.61667	-82.22333	0.08	0.03	0.06	0.00	0.02	0.03	0.80	0.29	12.54	9.80	0.88	0.31
9	7/16/97	328	24.45400	-82.22400	0.07	0.05	0.05	0.04	0.02	0.01	0.39	0.36	8.38	7.80	0.45	0.41
9	7/17/97	329	24.71667	-82.54167	0.03	0.06	0.00	0.02	0.03	0.05	0.29	0.53	8.42	9.93	0.32	0.59
9	7/17/97	330	24.66533	-82.37400	0.23	0.22	0.19	0.17	0.04	0.05	0.14	0.19	7.02	6.80	0.36	0.41
9	7/16/97	331	24.50683	-82.28767	0.02	0.08	0.00	0.07	0.02	0.02	0.10	0.13	6.61	7.04	0.11	0.21
9	7/16/97	332	24.53550	-82.36733	0.11	0.28	0.08	0.26	0.03	0.02	0.21	0.19	6.41	6.39	0.31	0.47
9	7/17/97	333	24.57717	-82.49133	0.10	0.13	0.07	0.09	0.03	0.04	0.18	0.26	6.40	6.61	0.28	0.39
9	7/16/97	334	24.51217	-82.45033	0.13	0.31	0.09	0.28	0.04	0.03	0.27	0.34	5.52	6.00	0.39	0.64
9	7/16/97	335	24.46083	-82.38317	0.19	0.16	0.17	0.13	0.02	0.04	0.17	0.27	5.21	5.74	0.35	0.43
9	7/17/97	336	24.65483	-82.64633	0.11	0.09	0.09	0.07	0.02	0.02	0.27	0.29	5.99	6.24	0.38	0.37
9	7/17/97	337	24.59133	-82.58783	0.16	0.12	0.11	0.09	0.06	0.03	0.37	0.12	6.40	7.04	0.53	0.24
9	7/17/97	338	24.63680	-82.87700	0.31	0.22	0.29	0.20	0.03	0.02	0.22	0.30	9.50	9.66	0.53	0.52
9	7/16/97	339	24.42833	-82.51083	0.16	0.14	0.16	0.12	0.01	0.02	0.24	0.35	7.81	7.30	0.40	0.48
9	7/16/97	340	24.48500	-82.65333	0.03	0.02	0.00	0.01	0.03	0.01	0.21	0.26	8.01	6.93	0.24	0.28
9	7/17/97	341	24.69833	-82.88333	0.18	0.18	0.16	0.16	0.02	0.02	0.13	0.02	7.64	6.47	0.31	0.20
9	7/17/97	342	24.70600	-82.74567	0.03	0.01	0.02	0.00	0.01	0.01	0.04	0.15	6.21	7.39	0.07	0.16
9	7/17/97	343	24.75500	-82.85500	0.03	0.03	0.02	0.00	0.02	0.03	0.11	0.21	10.88	8.61	0.14	0.24
9	7/17/97	344	24.56333	-82.80500	0.01	0.07	0.00	0.05	0.01	0.01	0.02	0.25	8.65	7.59	0.03	0.31
9	7/16/97	345	24.37900	-82.70467	0.17	0.17	0.15	0.13	0.02	0.04	0.22	0.32	5.67	6.42	0.39	0.48
9	7/17/97	346	24.66667	-83.00833	0.39	0.44	0.37	0.39	0.02	0.05	0.24	0.45	7.76	7.89	0.62	0.89
9	7/17/97	347	24.65400	-82.99667	0.29	0.28	0.26	0.23	0.03	0.05	0.30	0.36	7.56	7.45	0.59	0.64
9	7/17/97	348	24.64167	-82.85500	0.02	0.13	0.00	0.09	0.02	0.03	0.15	0.34	7.72	8.44	0.17	0.46
9	7/17/97	349	24.63795	-82.93113	0.32	0.31	0.30	0.30	0.01	0.01	0.12	0.17	7.11	6.48	0.44	0.48
9	7/17/97	350	24.45000	-82.86667	0.09	0.13	0.07	0.10	0.02	0.03	0.20	0.36	5.98	6.26	0.28	0.50

SURV	DATE	STA	TON-S	TON-B	TP-S	TP-B	SRP-S	SRP-B	APA-S	APA-B	CHLA	TOC-S	TOC-B	SIO4-S	SIO4-B	TURB-S	TURB-B
9	7/17/97	321	10.79	9.22	0.16	0.14	0.00	0.01	0.03	0.03	0.24	235.02	230.02	1.03	0.83	0.17	0.13
9	7/16/97	322	10.63	8.85	0.14	0.17	0.00	0.00	0.02	0.02	0.19	244.27	244.75	0.87	1.55	0.31	0.76
9	7/17/97	323	14.09	11.44	0.24	0.29	0.01	0.01	0.07	0.06	0.26	268.96	246.83	4.72	4.64	0.65	2.10
9	7/17/97	324	18.77	9.33	0.20	0.17	0.01	0.00	0.07	0.06	0.52	271.75	250.15	2.52	2.49	0.47	0.47
9	7/16/97	325	12.63	11.32	0.19	0.19	0.00	0.00	0.02	0.02	0.52	287.85	289.17	4.18	3.93	0.87	0.81
9	7/17/97	326	10.73	9.55	0.19	0.27	0.00	0.00	0.02	0.03	0.36	243.71	252.40	3.88	4.01	0.56	1.63
9	7/17/97	327	11.66	9.49	0.17	0.20	0.01	0.00	0.05	0.05	0.33	246.79	238.35	1.56	1.56	0.40	0.39
9	7/16/97	328	7.92	7.40	0.17	0.12	0.00	0.00	0.02	0.02	0.15	249.52	243.19	0.62	0.41	0.10	0.12
9	7/17/97	329	8.09	9.34	0.16	0.25	0.00	0.00	0.02	0.02	0.12	245.60	255.60	1.24	6.92	0.30	1.24
9	7/17/97	330	6.66	6.38	0.21	0.15	0.00	0.00	0.04	0.03	0.35	247.94	245.75	2.61	2.86	0.54	0.49
9	7/16/97	331	6.50	6.83	0.13	0.15	0.00	0.00	0.02	0.03	0.41	251.04	253.73	1.40	1.62	0.48	1.60
9	7/16/97	332	6.10	5.92	0.16	0.17	0.00	0.00	0.03	0.03	0.34	246.50	242.25	1.90	3.88	0.97	0.91
9	7/17/97	333	6.12	6.22	0.14	0.15	0.00	0.00	0.05	0.05	0.26	244.00	245.71	0.18	0.10	0.64	0.60
9	7/16/97	334	5.13	5.36	0.12	0.14	0.00	0.00	0.02	0.03	0.13	246.77	244.15	0.68	1.17	0.24	1.06
9	7/16/97	335	4.86	5.31	0.12	0.12	0.00	0.00	0.02	0.02	0.12	203.83	193.83	0.51	0.40	0.11	0.17
9	7/17/97	336	5.61	5.87	0.14	0.22	0.00	0.00	0.02	0.02	0.11	190.96	191.67	1.07	5.65	0.19	1.03
9	7/17/97	337	5.86	6.80	0.16	0.18	0.00	0.01	0.07	0.08	0.79	192.10	191.92	0.01	0.00	0.54	0.47
9	7/17/97	338	8.98	9.15	0.15	0.12	0.00	0.01	0.03	0.04	0.30	185.38	186.23	1.11	0.87	0.55	0.66
9	7/16/97	339	7.41	6.82	0.12	0.16	0.01	0.01	0.01	0.02	0.09	195.27	187.29	0.58	0.40	0.40	0.72
9	7/16/97	340	7.77	6.66	0.17	0.17	0.00	0.00	0.02	0.04	0.08	201.06	195.73	0.51	0.61	0.22	0.21
9	7/17/97	341	7.34	6.28	0.18	0.16	0.01	0.00	0.03	0.03	0.23	181.33	178.15	0.80	0.75	0.22	0.15
9	7/17/97	342	6.14	7.23	0.14	0.24	0.01	0.01	0.02	0.02	0.17	177.77	191.90	0.86	4.30	0.20	1.10
9	7/17/97	343	10.74	8.38	0.15	0.27	0.01	0.03	0.03	0.02	0.19	193.94	189.60	0.62	5.42	0.11	0.55
9	7/17/97	344	8.62	7.28	0.14	0.13	0.00	0.00	0.02	0.03	0.09	198.19	189.67	0.79	1.35	0.13	0.72
9	7/16/97	345	5.28	5.93	0.14	0.19	0.00	0.01	0.01	0.01	0.08	195.21	188.85	0.78	0.83	0.24	0.36
9	7/17/97	346	7.14	7.01	0.14	0.15	0.00	0.01	0.03	0.02	0.16	187.38	177.48	0.21	0.18	0.08	0.10
9	7/17/97	347	6.97	6.82	0.14	0.16	0.00	0.00	0.02	0.02	0.16	174.31	175.27	0.43	0.46	0.06	0.11
9	7/17/97	348	7.55	7.98	0.16	0.16	0.00	0.00	0.03	0.03	0.27	173.04	175.23	0.96	0.85	0.51	0.39
9	7/17/97	349	6.67	6.01	0.16	0.15	0.02	0.01	0.03	0.03	0.28	173.19	173.19	0.91	0.96	0.19	0.18
9	7/17/97	350	5.70	5.76	0.16	0.21	0.02	0.02	0.02	0.02	0.11	178.67	179.88	1.12	0.98	0.13	0.37

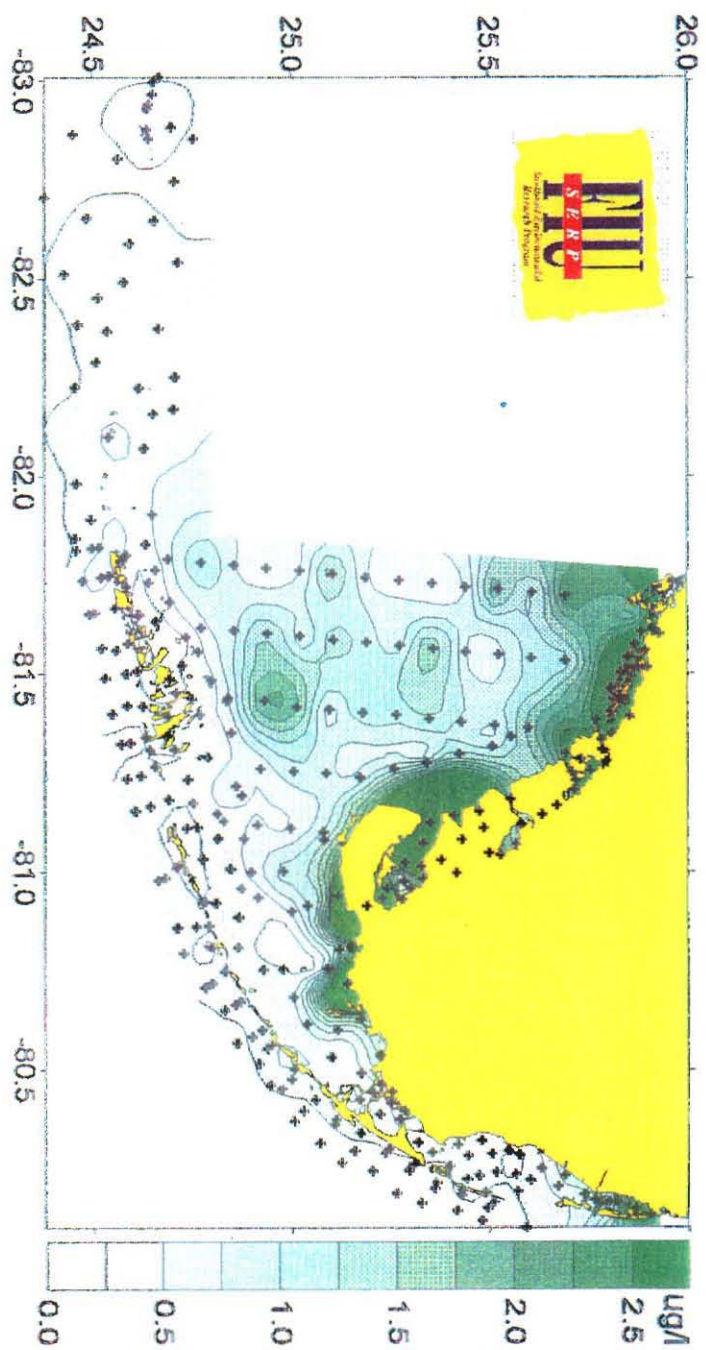
Chlorophyll a (Dec 96)



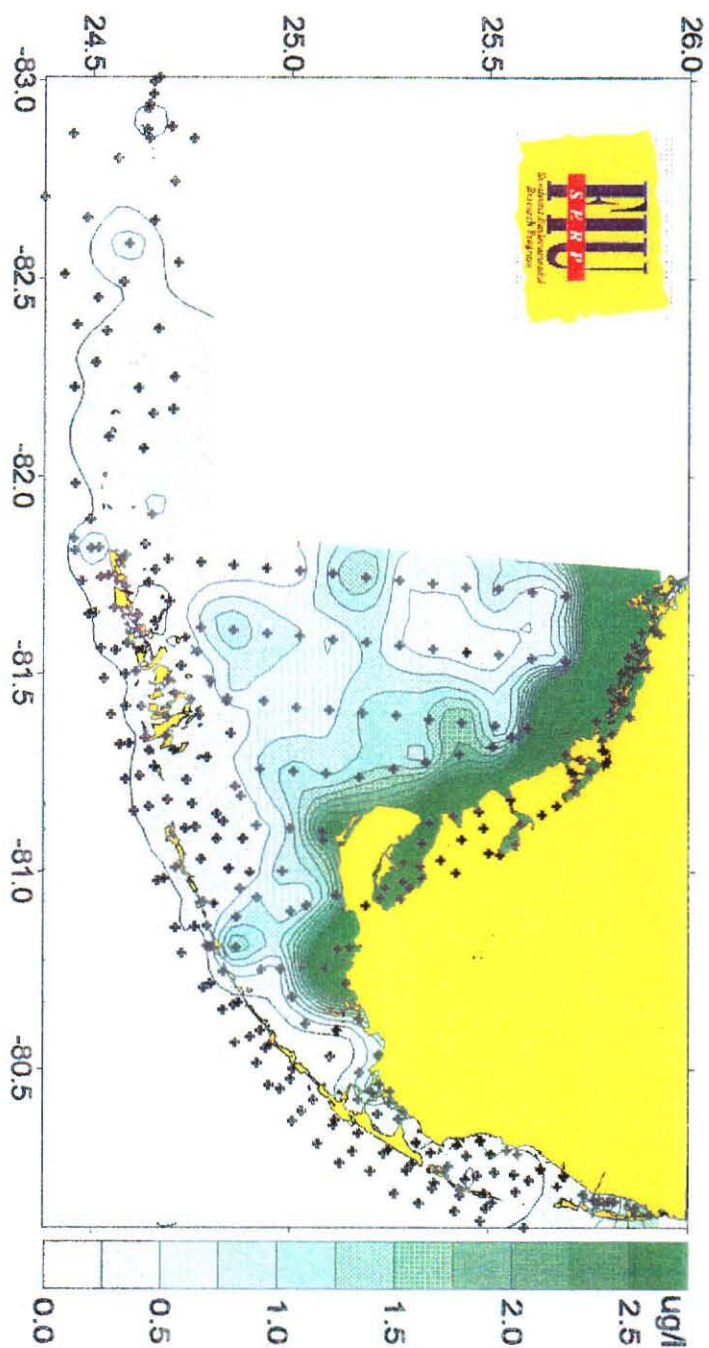
Chlorophyll a (Mar 97)



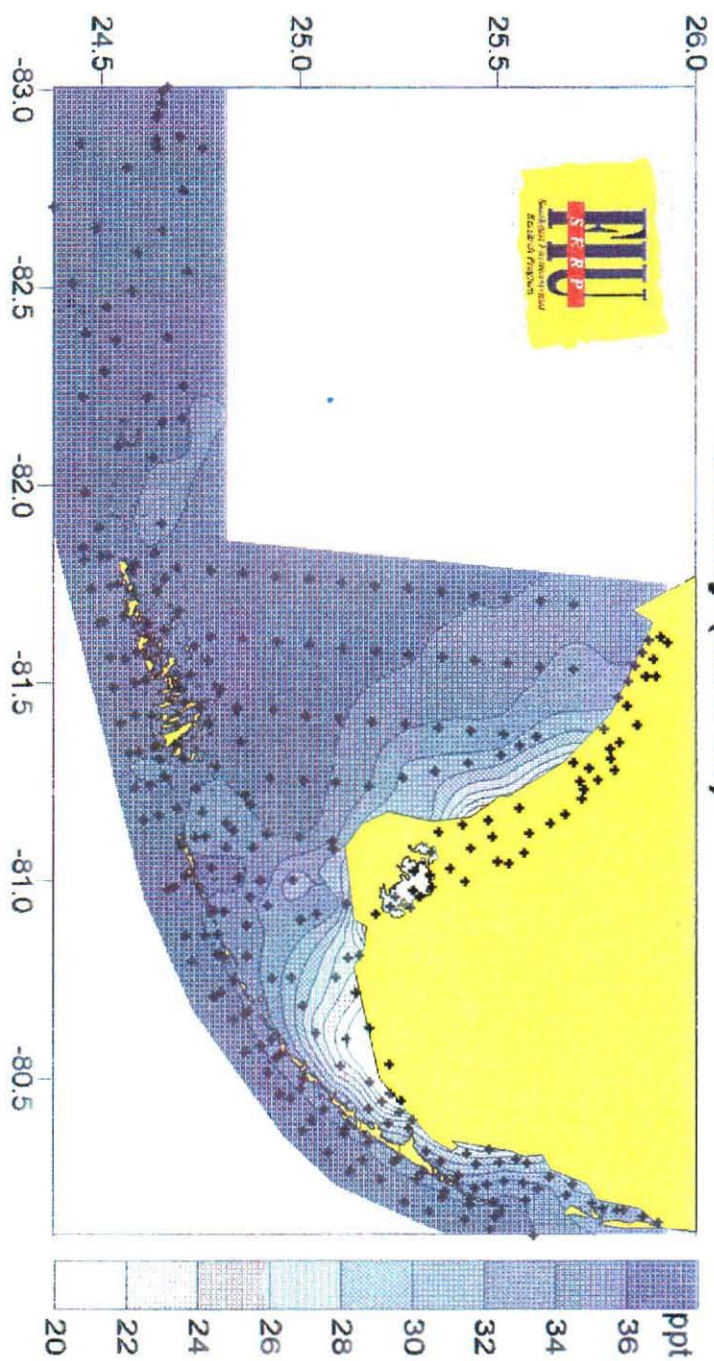
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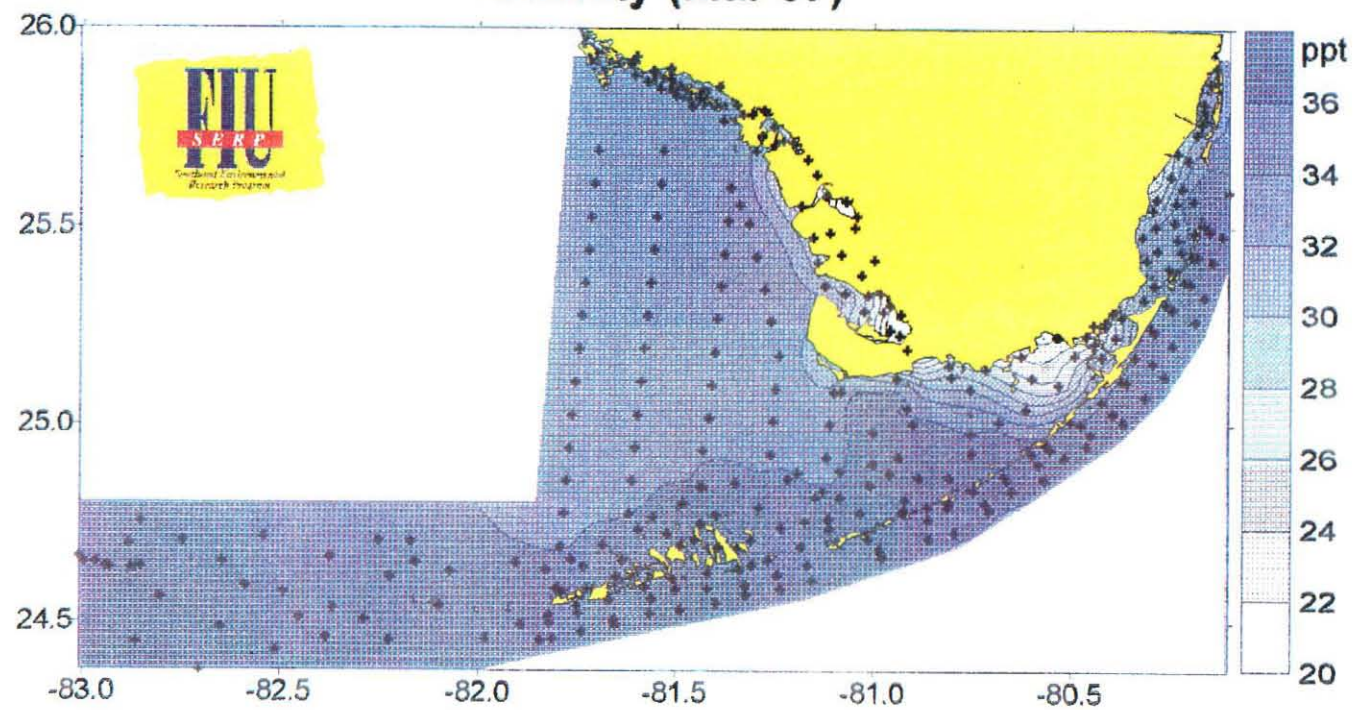
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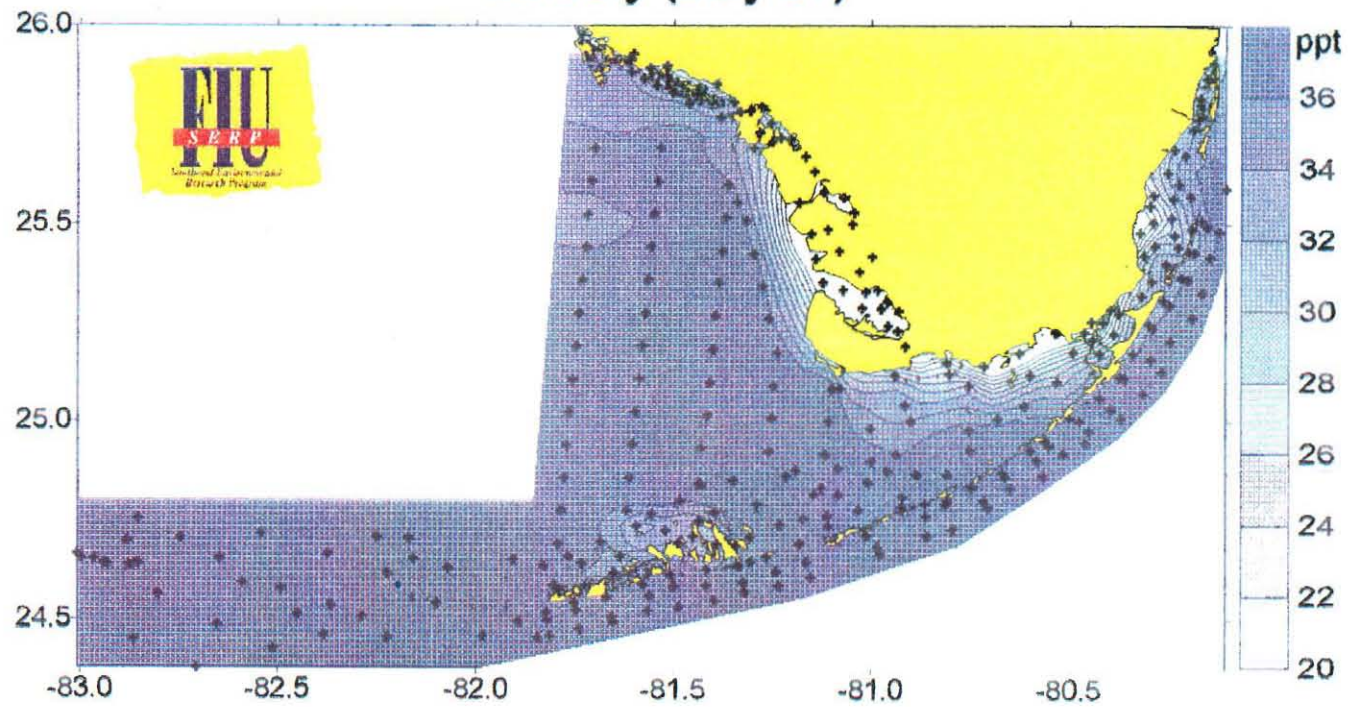
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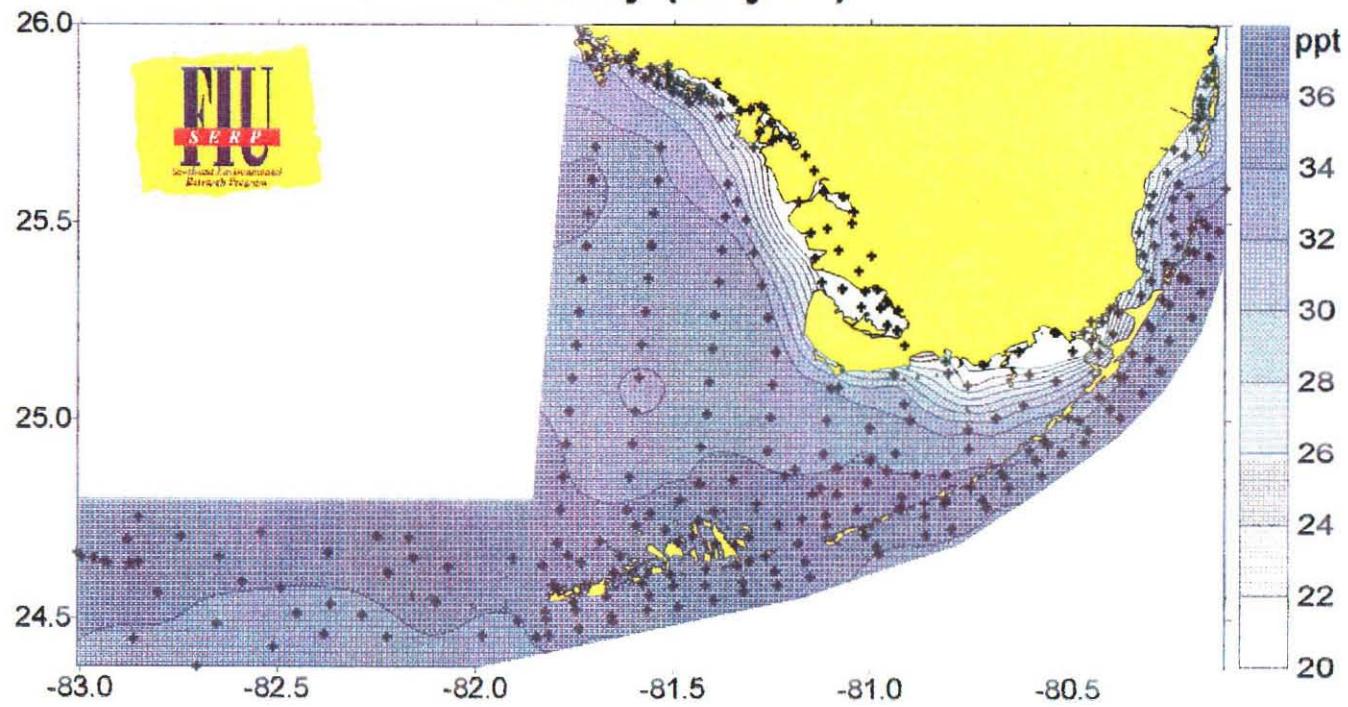
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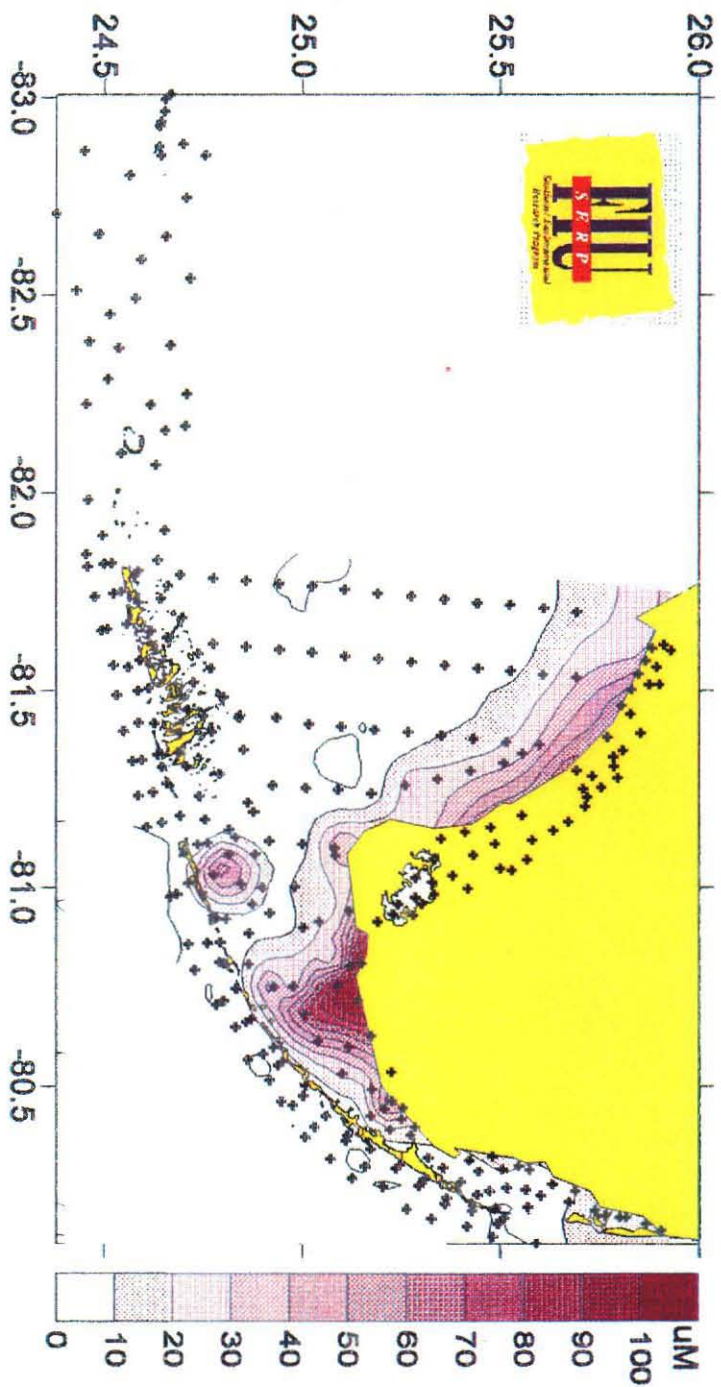
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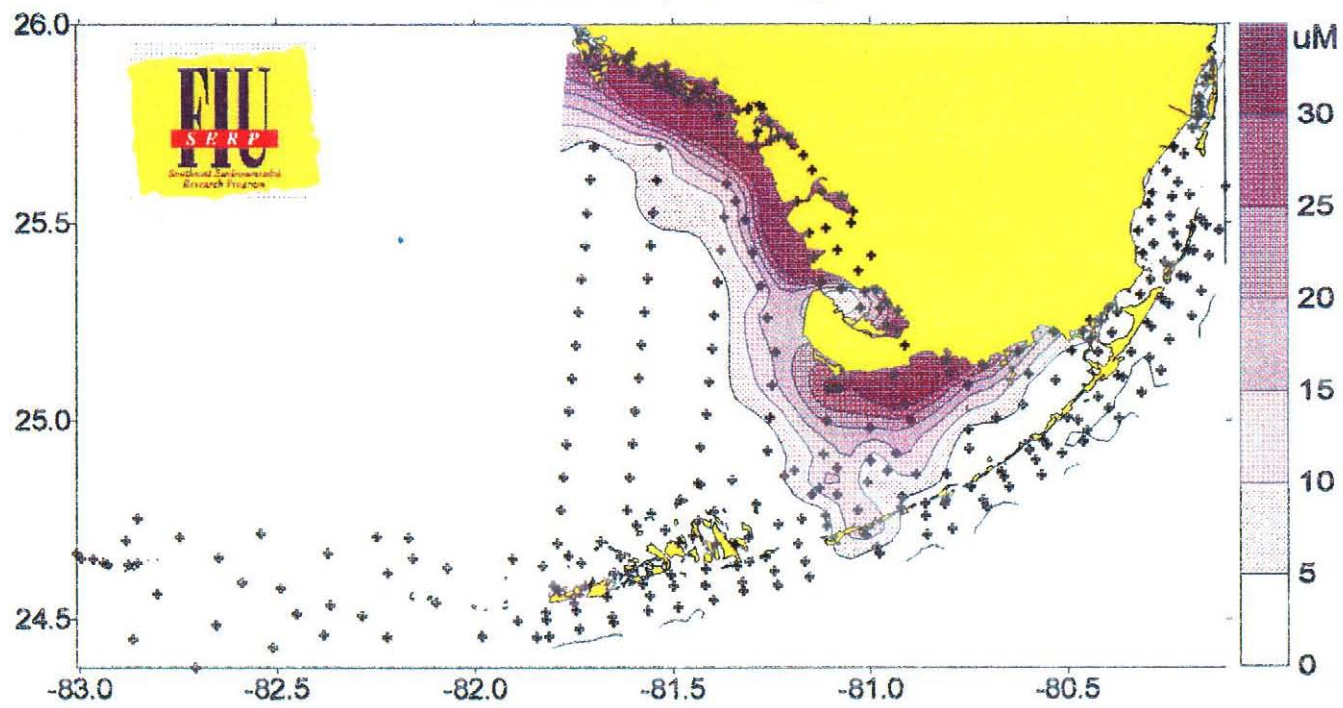
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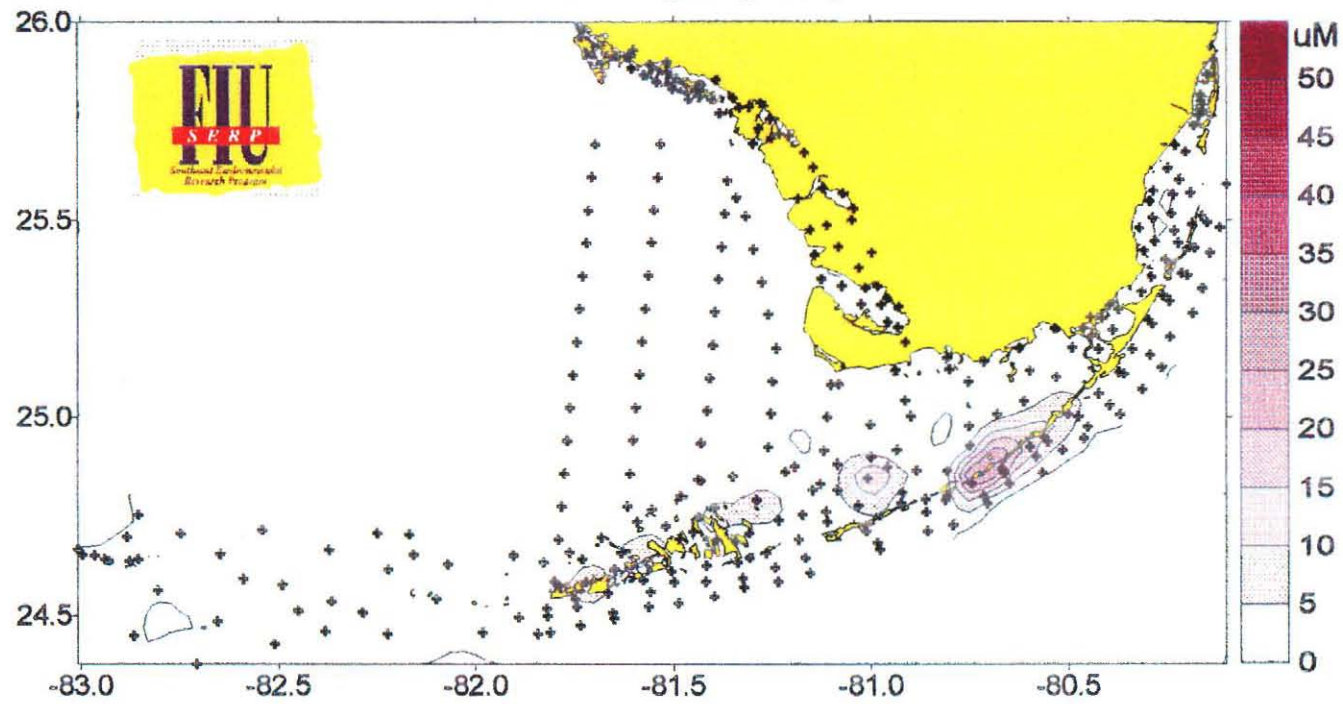
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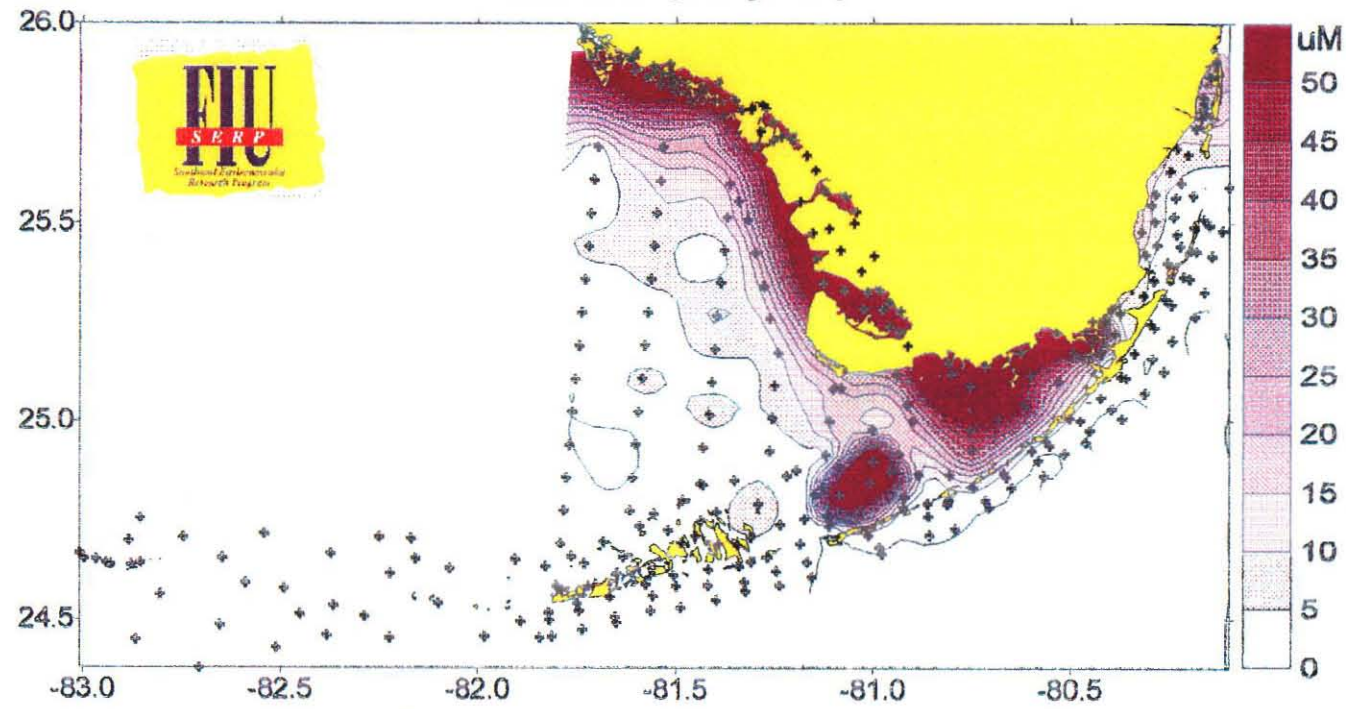
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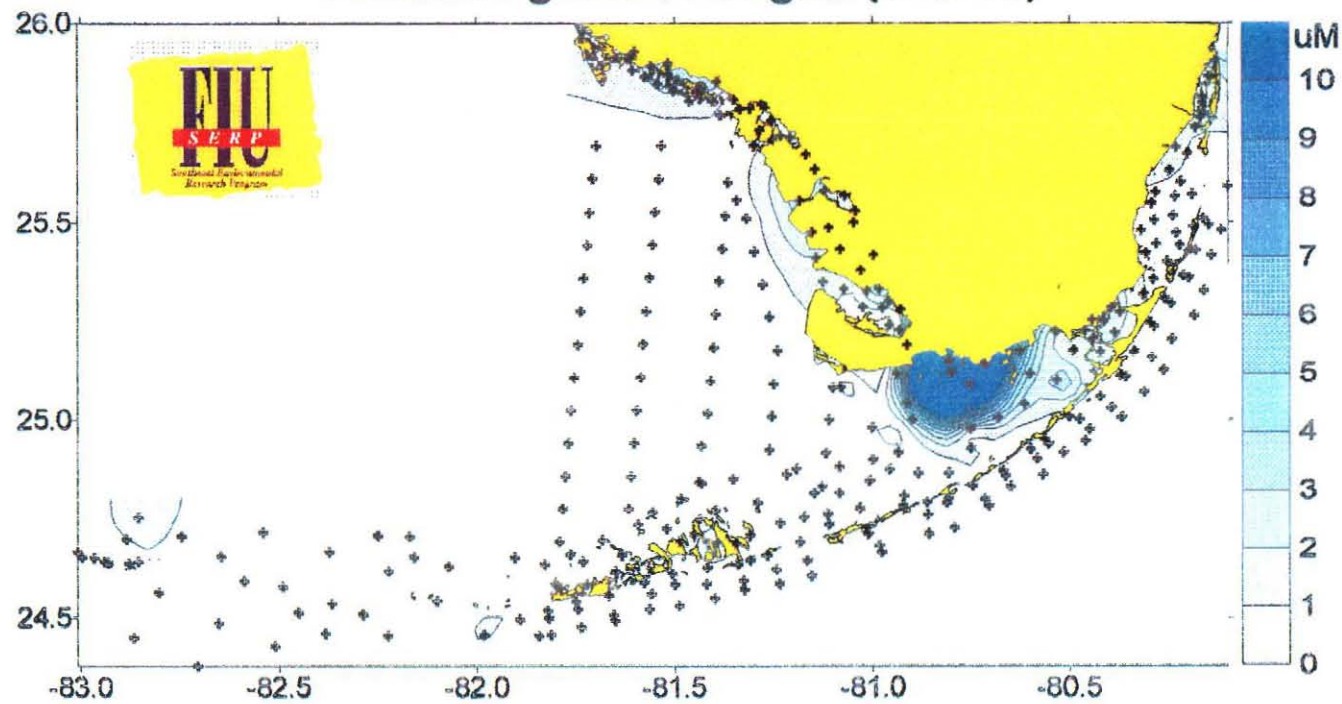
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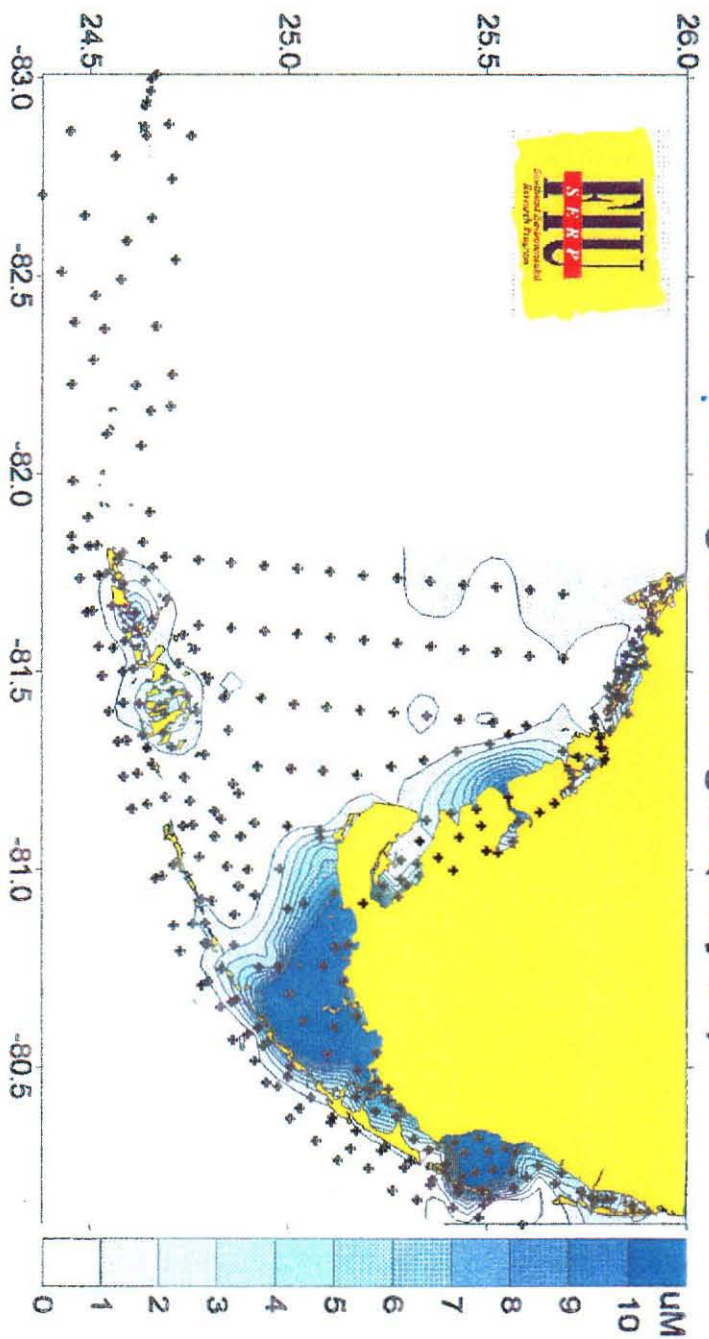
Silicate (July 97)



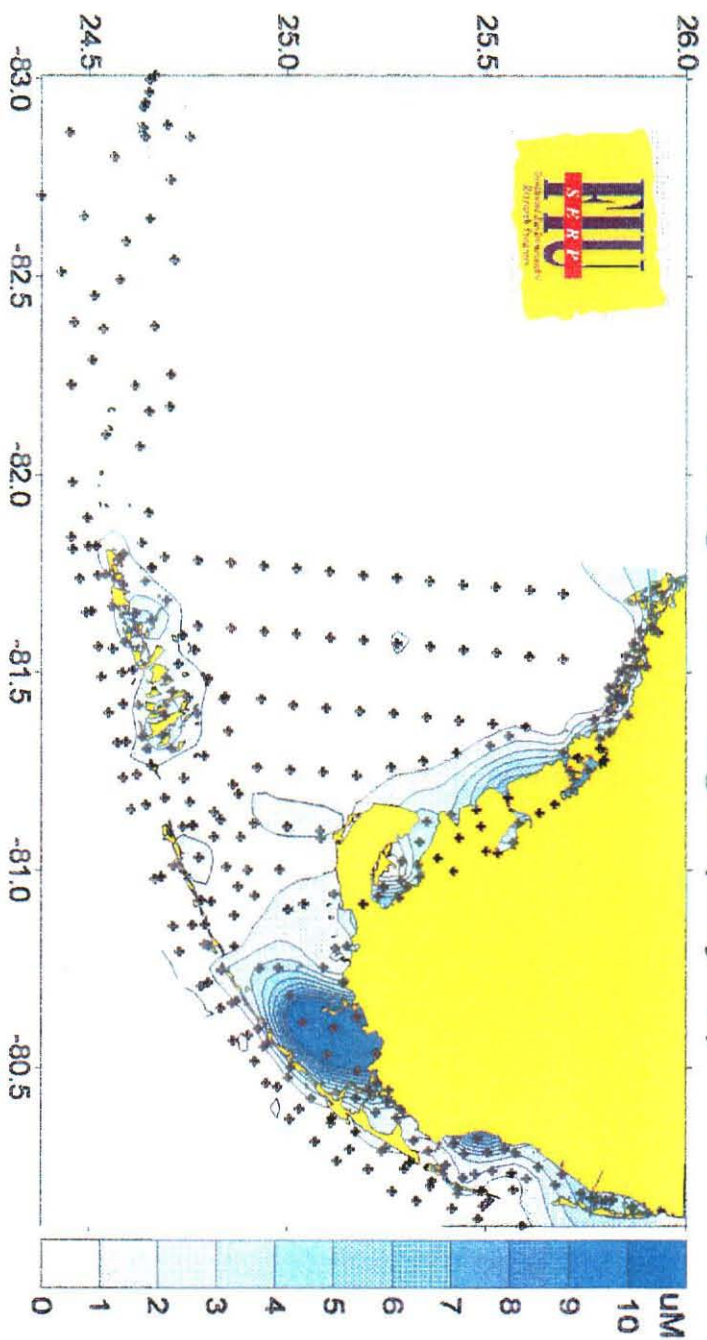
Total Inorganic Nitrogen (Mar 97)



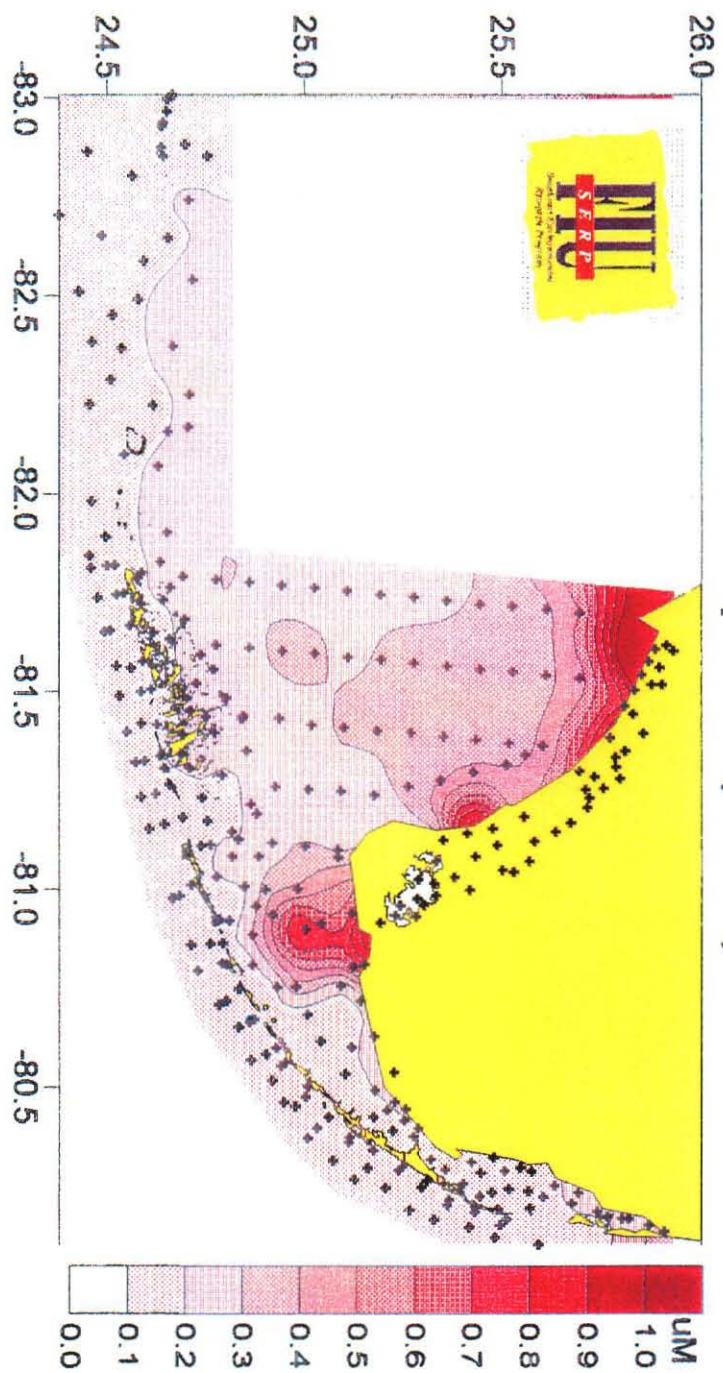
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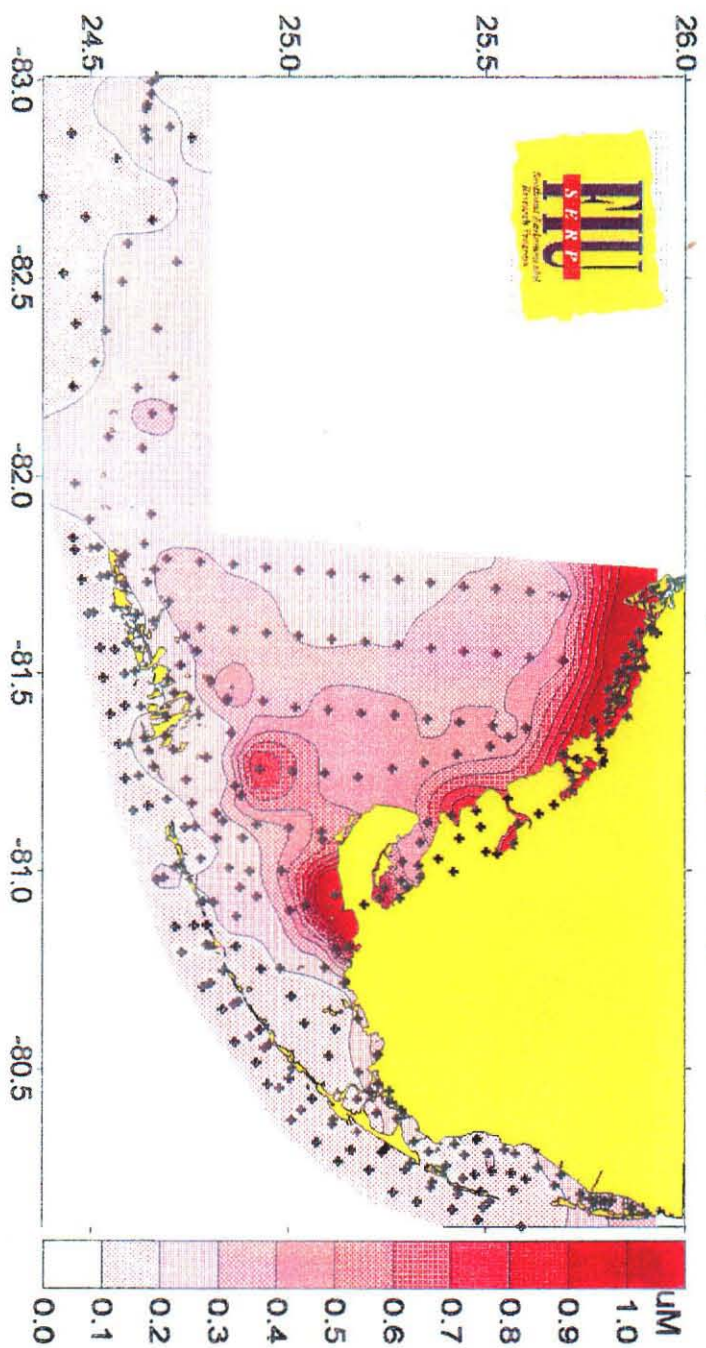
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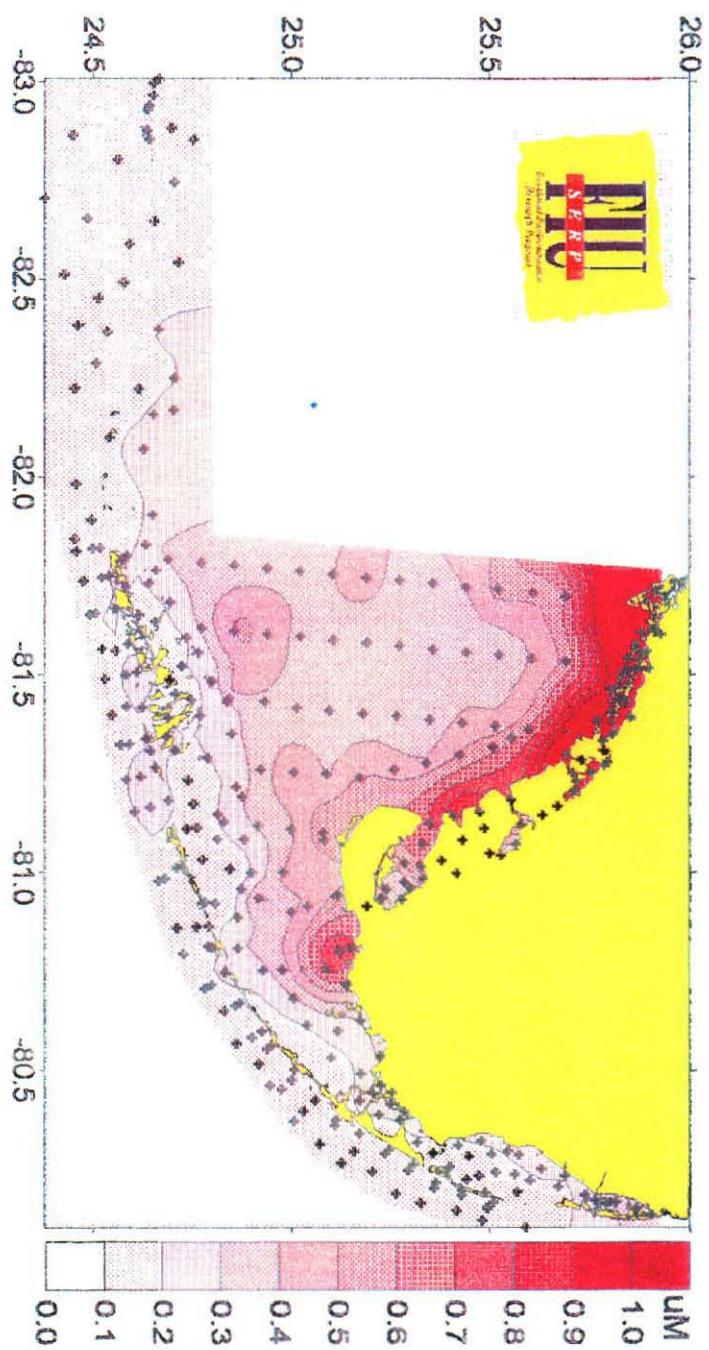
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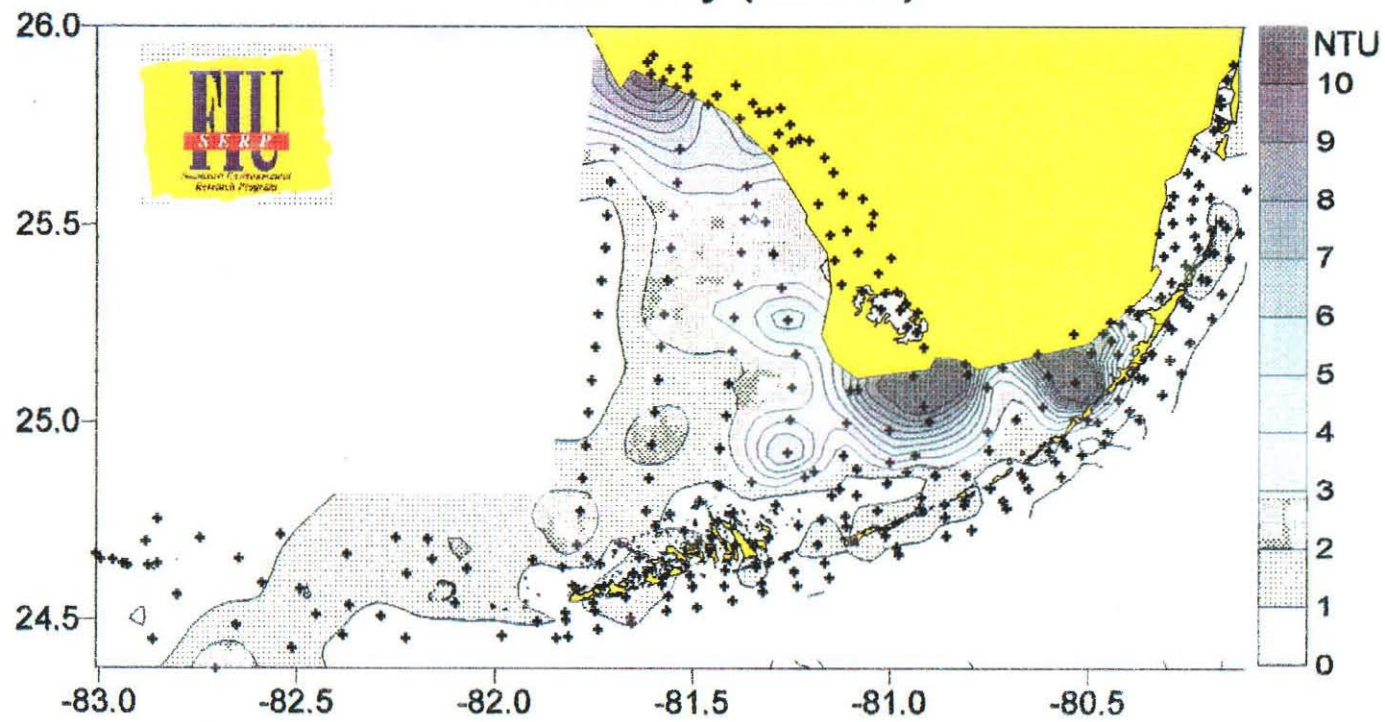
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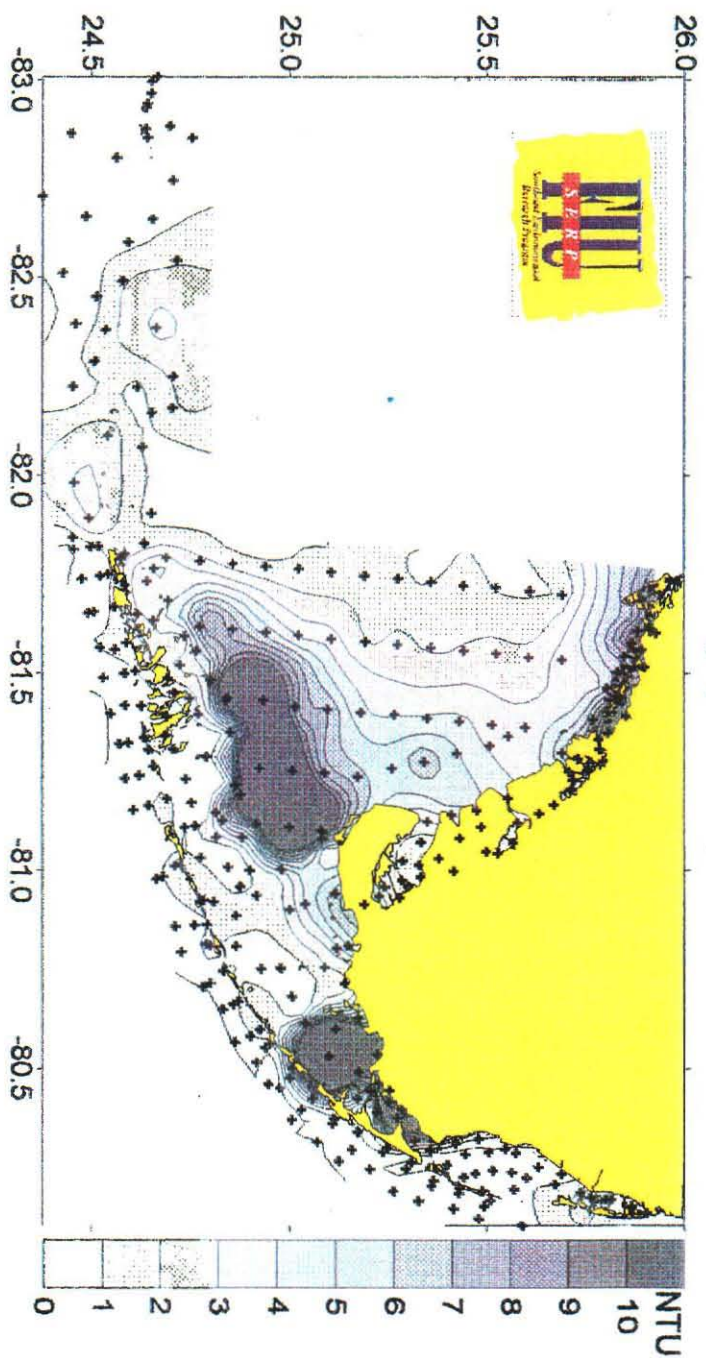
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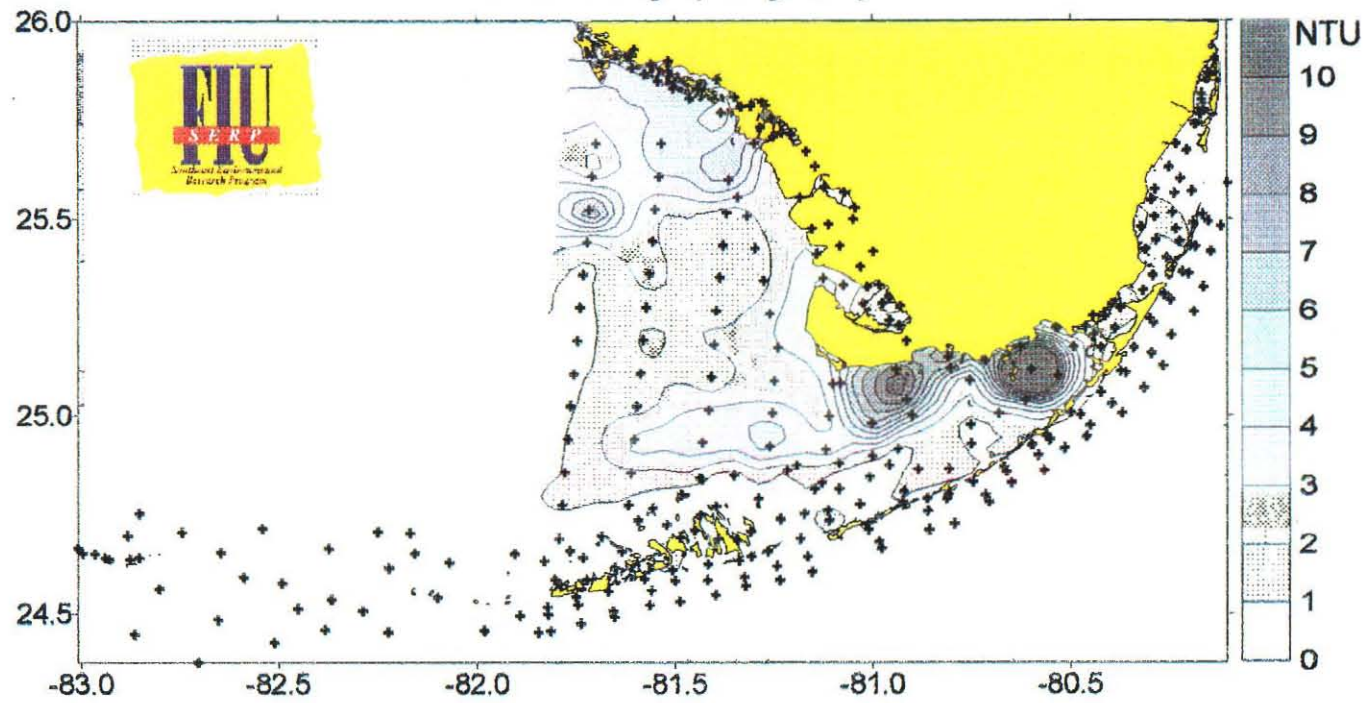
Turbidity (Dec 96)



Turbidity (Mar 97)



Turbidity (May 97)



Turbidity (July 97)

