SEA GRANT

NUTRIENT AND HYDROGRAPHIC DATA FOR THE GREAT BAY ESTUARINE SYSTEM, NEW HAMPSHIRE-MAINE PART II

January, 1976 - June, 1978

by

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Ocean Process Analysis Laboratory
University of New Hampshire

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Abstract

This data report summarizes nutrient, temperature, salinity, oxygen, pH, suspended load, and pigment data for water samples collected approximately once per month at 16 stations in the Great Bay Estuary, New Hampshire-Maine, from January 13, 1976 to June 13, 1978. Time series-location plots and property-salinity plots are presented to aid in the interpretation of the data. Although the water column data were averaged on a depth weighted basis to facilitate plotting and interpretation, original data are also included in the report. The purpose of this work was to provide detailed baseline data as part of a long term investigation of processes affecting the distribution of chemical parameters in estuarine systems.

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Introduction

This data report summarizes nutrient, temperature, salinity, oxygen, pH, suspended load, and pigment data for water samples collected approximately once per month at 16 stations in the Great Bay Estuary, New Hampshire-Maine, from January 13, 1976 to June 13, 1978. The purpose of this work was to provide detailed baseline data as part of a long term investigation of processes affecting the distribution of chemical parameters in estuarine systems.

Monthly collection of hydrographic and chemical data was begun in 1974 at seven stations by University of New Hampshire personnel at the Jackson Estuarine Laboratory (Norall and Mathieson, 1976; Norall et al., 1983). In 1976, the number of sampling stations was increased to 16 to provide more extensive sample coverage necessary for the interpretation of mixing processes. Rivers draining the Great Bay-Little Bay basin were also sampled during the ensuing investigation (Loder et al., 1979) to aid in calculating nutrient fluxes into the estuary. Although portions of this joint study have previously been incorporated in published papers (Loder, 1978; Loder and Glibert, 1980 Loder and Reichard, 1981), the complete 30 month data set may help other researchers in their study of estuarine processes. Collection of similar data for a reduced number of stations was continued by Jackson Estuarine Laboratory personnel from July, 1978 to December, 1981 (Penniman et al., 1983).

Sample Collection

Sampling locations are shown in Figure 1 and sample dates, times, and depths are listed in Tables 1 and 2. Sampling stations designated 1 to 7 are those initiated by the Jackson Estuarine Laboratory program in 1974, while station numbers such as 1-1, 1-2, 3-1, etc. are those added for this study, the old station numbers being retained for ease in data comparison. The sample collection scheme was centered around low tide such that a maximum range of salinities might be observed over the approximately 4-hour sampling period. Sampling was generally begun at station 1 approximately one hour before low tide at Portsmouth and was continued up-estuary, passing low tide in Little Bay and arriving at station 7 one-half to one hour following mean low water (MLW). This was possible because it takes over 2 hours for high or low tide to move from Portsmouth to the head of the estuary.

All sampling was done from the R/V Jere A. Chase, which was equipped with a 24-volt submersible pump (Benthos Model #5013) and 15 m of plastic hose. Water samples were collected after lowering the pump and hose to the surface depth (10 to 20 cm below the surface) and pumping for several minutes to flush the system. The hose fed water into a 5-port manifold from which all sample bottles were rinsed three times and filled. All bottles for an individual depth were filled in 1-2 minutes and the hose was then lowered to the next depth. A thermometer placed in the manifold was used to determine water temperature.

The ship was not anchored during sampling so that it could drift with the currents and maintain a nearly vertical wire angle. This was essential because high currents (4-6 knots in some locations) made it nearly impossible to sustain a low wire angle while anchored. The principal benefit of this

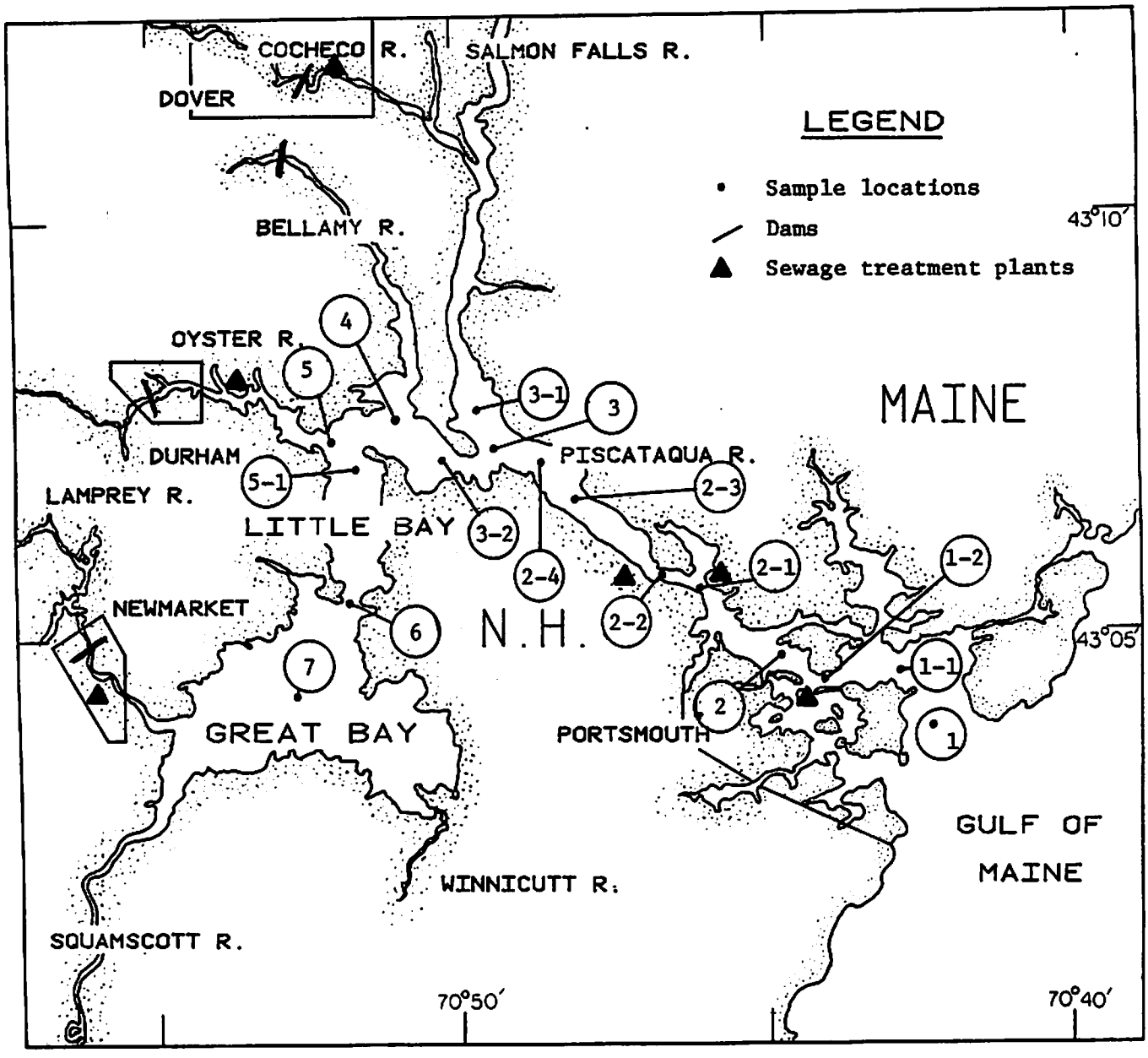

Figure 1. Location map for sample stations in the Great Bay Estuary used in this survey. Five additional below-dam sewage treatment plants are located upriver beyond the bounderies of this map in the Squamscott (1) and Salmon Falls (4) Rivers. Industrial point source discharges along the middle reach of the Piscataqua River are not shown either, as these effluents are generally low in volume and absolute nutrient concentration (New Hampshire Water Supply and Pollution Control Commission, personal communication).

Table 1. Summary of sampling dates and times for data presented in this report. Low tide data represent time of low tide at Portsmouth, N.H. A running count of the days and months elapsed from January 1, 1976 is included to facilitate time series analyses of the data.

Cruise #	Date	Days from 1/1/76	Decimal Months	Sample Times Start	Finish	# of Stations	Low Tide
1	1/13/76	13	0.42	1318	1730	11	1437
2	2/24/76	55	1.83	1155	1628	12	1312
3	3/24/76	84	2.77	1128	1534	16	1251
4	4/21/76	112	3.70	0954	1358	16	1115
5	5/19/76	140	4.61	0901	1313	16	0945
6	6/22/76	174	5.73	1233	1644	16	1331
7	7/21/76	203	6.68	1210	1617	15	1241
8	8/17/76	230	7.55	0933	1346	16	1003
9	9/15/76	259	8.50	0910	1304	16	0921
10	10/19/76	293	9.61	1327	1712	15	1331
11	11/16/76	321	10.53	1041	1458	16	1159
12	12/15/76	350	11.48	1014	1438	16	1132
13	1/13/77	379	12.42	1000	1328	7	1110
14	2/10/77	407	13.36	0840	1320	13	0950
15	3/28/77	453	14.90	0946	1418	16	1135
16	4/26/77	482	15.87	1000	1428	16	1050
17	5/25/77	511	16.81	0950	1415	16	1011
18	6/23/77	540	17.77	0847	1317	16	0938
19	7/21/77	568	18.68	0825	1302	16	0823
20	8/23/77	601	19.74	1055	1535	16	1140
21	9/20/77	629	20.67	1011	1425	16	1022
22	10/20/77	659	21.64	1055	1515	16	1124
23	11/17/77	687	22.57	0847	1302	16	1001
24	12/19/77	719	23.61	1130	1557	16	1259
25	1/19/78	750	24.61	1237	1620	12	1421
26	2/15/78	777	25.54	1020	1420	12	1142
27	3/16/78	806	26.52	0927	1330	11	1054
28	4/17/78	838	27.57	1056	1434	12	1259
29	5/16/78	867	28.52	1035	1423	12	1205
30	6/13/78	895	29.43	1000	1330	12	1026

procedure was that essentially the same water column could be vertically sampled by following it downstream during sampling. As a result, sampling locations were up to one-half kilometer long in some of the high current locations.

Table 2. Summary of station water depths and sampling depths (see Fig. 1 for locations).

Station Number	Range of Water Depth (m)	Commonly Used Sample Depths (m)
1	10–15	0.2, 1.2, 4, 12
1-1	12–15	0.2, 1.2, 4, 15
1-2	14–17	0.2, 1.2, 4, 15
2	11–15	0.2, 1.2, 4, 15
2-1	14–18	0.2, 1.2, 4, 15
2-2	13–19	0.2, 1.2, 4, 15
2-3	11–19	0.2, 1.2, 4, 15
2-4	7–15	0.2, 1.2, 4, 13
3	4–7	0.2, 1.2, 4
3-1	4–7	0.2, 1.2, 4
3-2	5–14	0.2, 1.2, 4, 10
4	1.2–3.5	0.2, 1.8
5	7.6–16	0.2, 1.2, 4, 9
5-1	12–16	0.2, 1.2, 4, 12
6	11–14	0.2, 1.2, 4, 13
7	4–6	0.2, 1.2, 4

Sample Handling and Analysis

Samples for salinity analysis were collected in sample-rinsed, 250-ml, aged linear polyethylene bottles and analyzed within several weeks of collection using a Guildline Autosal salinometer (Model 8400).

Unfiltered samples for nutrient analyses were collected in acid-washed, sample-rinsed, linear polyethylene bottles (125-ml) and preserved with mercuric chloride (final concentration ~100 ppm). Samples for ammonium analyses were collected separately and were preserved with 5-ml aliquots of 10% phenol in 95% ethanol. Nutrient samples were immediately placed on ice and kept refrigerated at ~ 4° C until analyses were made within several days to a week. Ammonium samples were frozen if not run within several days following collection. Prior preservation studies (Glibert, 1976) have shown that nutrient samples stored as described are stable (within 1-2%) for several weeks.

The suspended matter was allowed to settle during storage and analyses were made on the supernatent using a 2-channel Technicon AutoAnalyzer and the following Technicon methods: phosphate (TIS, 1973a), silicate (TIS, 1973b), nitrate (TIS, 1972), and nitrite, (TIS, 1973c). Ammonium samples were run either by the manual method of Solorzano (1969) or on the AutoAnalyzer (Adamski, 1976). The AutoAnalyzer methods and their modifications are described and summarized by Glibert and Loder (1977). All nutrient and salinity samples were run in random order. Nutrient standards were made in deionized distilled water because of the varying salinities of the estuary. Both refractive index and chemical corrections as a function of salinity were applied to nutrient data as described by Loder and Glibert (1977). Samples for total phosphate analyses were oxidized using persulfate digestion (Menzel and Corwin, 1965) and analyzed on the AutoAnalyzer using the phosphate method.

Dissolved oxygen samples were collected in glass 300-ml BOD bottles and analyzed within a day after collection using the standard Winkler titration (Strickland and Parsons, 1972). Samples for pH were collected in well-rinsed, linear polyethylene bottles and stored on ice. These were allowed to warm to room temperature just prior to pH measurement with an Orion 701 pH meter calibrated with a pH 7.00 NBS buffer. The pH analyses were made several hours after sample collection. Samples for pigment analyses were filtered within one hour of collection on board ship. An 800-ml sample was filtered using a glass-fiber filter (Gelman AE), sealed in a petri dish, and stored on ice in the dark until returned to the lab where it was frozen until analysis within a few weeks (Strickland and Parsons, 1972).

Suspended load samples were collected in 2 or 4 liter polyethylene bottles and stored at laboratory temperatures until filtration within a week after collection. After shaking, 0.5 to 4 liter portions of the sample were filtered through tared, 47-mm Gelman (AE) glass fiber filters, rinsed with deionized water, and dried at 55° C for 24 to 48 hours. After reweighing, the filter was heated to 500° C for 4 hours to remove volatile (loss-on-ignition) material and then reweighed. Environmental filter variability was corrected using blank control filters before final suspended load and loss-on-ignition data were calculated. All methods described above are summarized in Table 3 with the approximate precision for each method. The analytical variability of each method is based on the average standard deviations of replicate samples and is generally quite low. However, the actual variability of the final data reported is probably 1 to 4 times the analytical variability, and can be attributed to sample handling and storage, dilution of samples whose concentrations were off scale, errors in measurement or

estimation of turbidity blanks, refractive index corrections, and chemical correction factors. Sampling variations are discussed in more detail by Loder (1978) and Loder and Glibert (1980).

Table 3. Summary of analytical methods and approximate variability based on average standard deviations of replicate samples.

Analysis	Method	Analytical Variability (+/-)
Salinity	Conductimetric (Guildline Autosal)	0.003 ppt
Temperature	Laboratory thermometer	0.5 degrees C
Sigma-t	Compute from T and S (Oxner, 1920)	0.1 sigma-t units
Phosphate	Molybdenum blue (AutoAnalyzer)	0.02 µmoles/1
Total phosphate	Persulfate oxidation Molybdenum blue (AutoAnalyzer)	0.05 µmoles/1
Silicate	Molybdenum blue (AutoAnalyzer)	0.08 µmoles/1
Nitrate	Cadmium reduction and Griess reaction (AutoAnalyzer)	0.05 µmoles/1
Nitrite	Griess reaction (AutoAnalyzer)	0.01 µmoles/1
Ammonium	Indophenol blue-hypochlorite (manual method)	0.05 µmoles/1
Dissolved oxygen	Winkler Method (manual titration)	0.01 ml/liter
pH	Orion 701 pH meter	0.02 pH units
Chlorophyll and phaeopigments	Acetone extraction and spectrophotometry	0.1 µg/1
Suspended Load	Gravimetric	0.2 mg/1
Loss-on-Ignition	Gravimetric	4%

Data Presentation

Since there is a great deal of data available, we felt that some initial processing and graphical presentation to supplement the raw data lists would be useful to potential users of this report. The data analyses and graphic output were prepared for the most part on a Tektronix 4051 microcomputer using software written by the authors. Most of the data presented in the appendices was prepared in one of the following forms:

Appendix I-a. Time series plots of concentration vs. location, and

Appendix I-b. Property vs. salinity

These two plot types are combined in Appendix I on facing pages for ease in data interpretation. The 13 time series plots (AI-1a to AI-13a) show the depth-weighted mean concentration (or value) of a given component at a specific location and time within the estuary. Averaged data were computed as shown in Fig. 2 by summing the products of concentration times the appropriate depth interval and then dividing by the total tidally averaged water depth at the station. The sampling depths and the range of station depths are given in Table 2. This approach tends to give added weight to concentrations in the deeper waters as a result of the unequal spacing of the sample depths. However, these depth-weighted average concentrations are essential for mass balance calculations and are summarized in tabular form in Appendix II.

Each time series figure consists of a lower block showing stations 3 and 3-1 and an upper block containing the remainder of the stations. Stations 3 and 3-1 were plotted separately from the others primarily because of the differing hydrographic regime of the upper Piscataqua. Tidal mixing at this

junction is into Little and Great Bays rather than upriver and thus tends to isolate this region from the primary advective mixing patterns of the estuary.

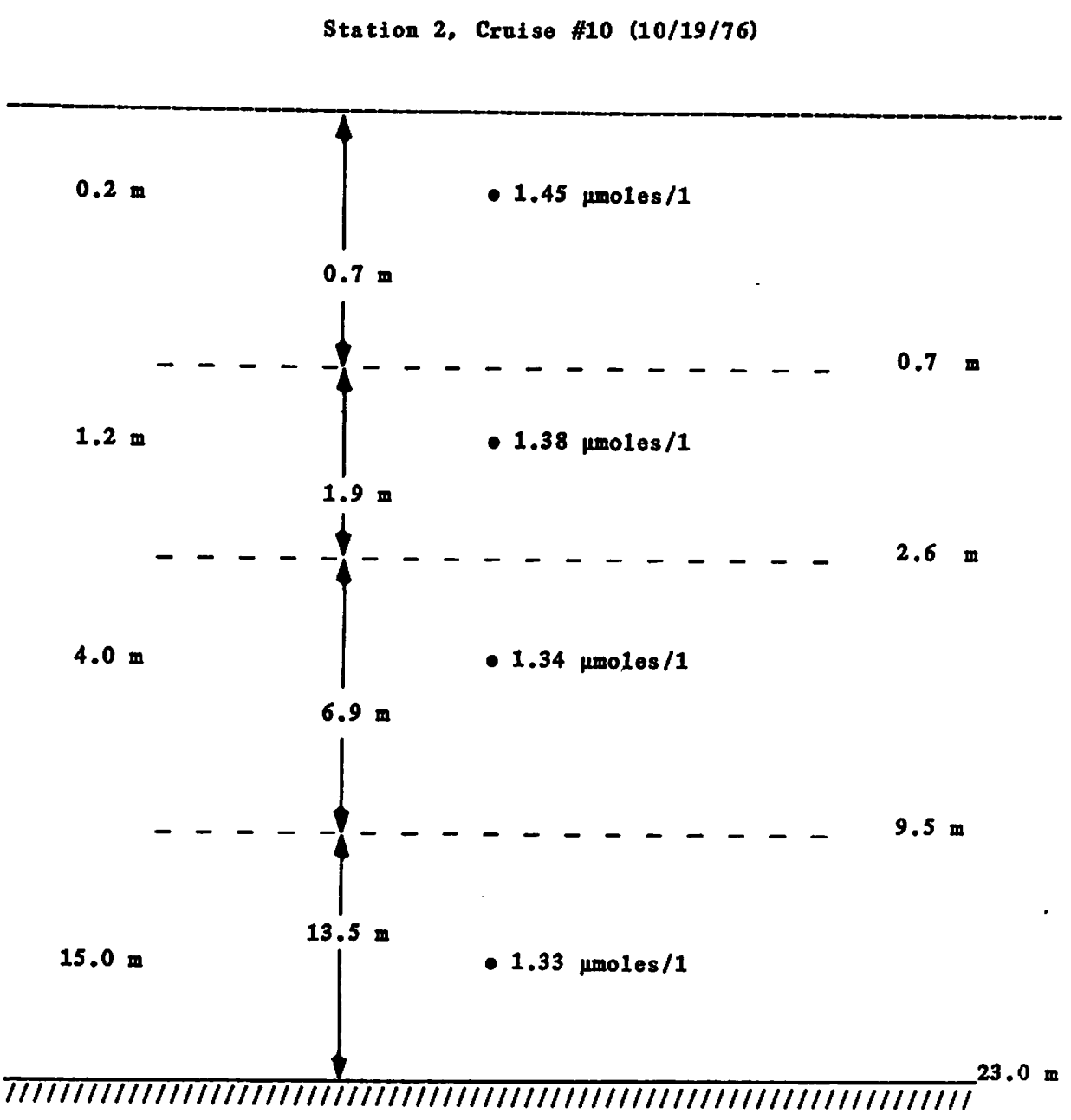

Figure 2. An example of the computation of a depth-weighted average phosphate value using the data from Station 2, Cruise #10 (10/19/76). Averages for each of the remaining constituents and stations were computed in a similar manner. The mean phosphate value for this station and cruise was computed as 1.34 µmoles/1 by [1.45(0.7) + 1.38(1.9) + 1.34(6.9) + 1.33(13.5)]/23.0.

The ten property vs. salinity composite graphs (Figs. AI-1b to AI-10b summarize on a monthly basis the relationship between an individual water property and salinity, here used as a conservative mixing index. For those months in which the plotted data tend to cluster about a straight line, constituent behavior may be termed conservative, provided we assume that the river and sea water concentrations were relatively constant for a time period greater than the flushing time of the estuary (approximately 25 days during high flow periods, 30 days during reduced flow: Brown and Arellano, 1980). During months when the data form a curved line or very scattered plot, other processes such as biological uptake, input from internal sources, or mixing of multiple end-members tend to dominate. For a more detailed discussion of the interpretation of property-salinity plots, see Liss (1976), Loder and Glibert (1980), or Loder and Reichard (1981).

Appendix II. Depth-weighted average data tables:

These data (Tables AII-1 to AII-13) were described previously in the Appendix I. data discussion.

Appendix III. Monthly data tables:

These tables (Tables AIII-1 to AIII-30) include all measured data and some derived data such as nitrate/phosphate ratios for the entire sampling period. Although many laborious hours have been spent confirming and proofing these lists, some discrepancies may still be present. We would appreciate learning of any errors that sharp-eyed readers may discover.

Data Discussion

The following discussion is intended only to summarize the major distributional features of various parameters presented in Appendix I. For a more detailed analysis, please refer to the papers mentioned earlier in this report.

Salinity

Salinity ranged from just over 32 ppt at the mouth during late summer 1976, to less than 10 ppt in Great Bay during a major spring freshet (March, 1977). At most times during the summer months, salinity is greater than 25 ppt and estuarine circulation (with reduced salinity and two-layered flow) is confined almost entirely to the rivers entering the estuarine system proper. High river runoff in late winter and early spring reduces salinity to less than 20 ppt as far as Dover Point (Station 2-4). However, even then, there is little vertical stratification because tidal mixing is so vigorous.

Temperature

Temperature ranged from 20-25° C during the summer in Great Bay to less than 0° C throughout most of the estuary in mid-winter. The range of temperatures at the ocean end is less than that in the upper estuary since it tends to warm and cool more slowly. There is very little vertical stratification during most of the year, as with salinity.

Temperature-salinty (T-S) plots (Appendix I) show relatively linear trends for most of the year, indicating that simple mixing is occurring between the Gulf of Maine water at Station 1 and the upper Estuary. However, during some summer months (e.g. July, 1977) there is a second line of data points diverging from the main set. These data are generally from the upper

Piscataqua River, suggesting that this region is a divergent water mass in terms of estuarine mixing and justifies plotting stations 3 and 3-1 separately as was done in Appendix I.

Phosphate

Phosphate concentrations ranged from near zero during the spring or fall blooms to greater than 2 µmoles/l during the winter. The concentration of phosphate, like all nutrients, is the result of several processes. During the winter when biological removal rates are low, the concentration of phosphate throughout the estuary can be roughly related to the estuarine freshwater input. For example, Fig. AI-3b shows that in both January, 1976 and 1978 the range of salinities was quite large and phosphate concentrations were less than 1 µmole/l. However, in January, 1977 during a period of reduced fluvial input, the range of salinities was quite narrow throughout the estuary, and consequently phosphate concentrations clustered around a median value of approximately 1.5 µmoles/l. During the next month, phosphate reached the maximum values observed during the entire study.

The source of this excess phosphate is unclear, although it may be related to the comparatively long residence time of water in the estuary. Great Bay's mean residence time of nearly 4 weeks affords ample time for phosphate released from the sediments to accumulate in the water column. The high salinity water in the upper estuary may upset the normal sediment-water phosphate equilibrium and cause more phosphate to be released, even though the rate of phosphate release from the sediments is much slower in the winter due to reduced biological activity. Disequilibrium by this process would be augmented by the increased sewage component in the fresh water added to the estuary during periods of reduced river flow. This would increase the phos-

phate concentration without increasing the salinity. Enhanced wind-wave activity can also cause more resuspension during the winter, although suspended load data did not indicate that this was a major process during the January-February, 1977 high phosphate period.

Although linearity of the phosphate-salinity plots generally indicates that conservative mixing occurs at the lower end of the estuary (high salinity ranges), this is not the case in the upper end of the estuary. The greater scatter and non-linear mixing curves in the upper estuary result from biological removal and incomplete mixing of rivers with differing end-member concentrations. This is discussed in more detail by Loder and Glibert (1979).

Total Phosphate

Total phosphate, which includes reactive ortho-phosphate discussed previously, as well as dissolved organic and oxidizable particulate phosphate forms, shows concentrations 2 to 4 times the dissolved reactive phosphate. The large amount of scatter relative to salinity reflects the fact that the particulate contribution to the total phosphate pool is not as sensitive to hydrographic factors as the dissolved component. The lowest total phosphate values seem to occur during the winter or early spring when runoff is reasonably high (e.g. March, 1976). The highest values occurred during the summer when runoff was low and biological activity was high, the two combining to add additional phosphate to the dissolved organic and particulate pools in the water column.

Nitrate

The highest values of nitrate, just over 13 µmoles/l, were found as expected during the winter months when biological demand is low. These high values are thought to be associated with the nitrification of other reduced nitrogen species during this time of year. Nitrate concentrations of nearly zero were found in coastal waters or mid-estuary regions during spring bloom periods, such as in April and May, 1977. The sharp decrease of nitrate with decreasing salinity as one moves up-estuary from the mouth (e.g. June, 1976 and May, 1977), indicates that during this time the estuary was a nitrate sink and that a bloom was occurring. Once this has happened during the spring months, the nitrate values generally remain low during the summer months until the rate of nitrification is greater than denitrification or uptake and then the nitrate concentrations slowly increase.

Nitrite

Unlike nitrate, the maximum nitrite values generally occur during the mid-fall, reaching values of 0.5 to nearly 1.0 µmole/l and then decreasing due to the completion of the nitrification process. However, the minimum values of nitrite tend to occur during the spring months coinciding with the nitrate minimums. Comparing the nitrite vs. salinity plots with similar nitrate plots indicates that the relative distributions of the two nutrients were similar (curve shapes), even though the concentrations were different.

Ammonium

Maximum values of ammonium, from 6 to 11 µmoles/l, were found in all seasons in the upper estuary during differing months. Values greater than 10 µmoles/l were also often observed in the upper Piscataqua River. Since the

major source of ammonium to the estuary is sewage plant effluent, the high values found here and in the upper estuary are not surprising.

The lowest values of ammonium were found at the estuary mouth, also during many different months. This is to be expected since the ammonium content of coastal waters is very low (generally not above 2.5 µmoles/1), as ammonium is the preferred nitrogenous nutrient form of many phytoplankton species.

Silicate

Silicate concentrations ranged from near zero in coastal waters during the summer to over 60 µmoles/1 during the winter. Because dissolved silicate concentrations in the rivers are elevated considerably (30 to 200 µmoles/1) relative to the surface coastal water concentrations of 2 to 18 µmoles/1, there is a strong silicate gradient in the estuary. During most of the year, silicate tends to be somewhat more non-reactive than other nutrients, resulting in nearly linear silicate vs. salinity plots. Generally, only during the spring months of April to June (e.g. June, 1976 and May, 1977) do the silicate vs. salinity curves show major deviations from linearity, suggesting that intense biological activity (i.e. diatom blooms) may be responsible for these silicate sinks. Differences between the Piscataqua River and Great Bay end-members (river inputs) are less apparent for silicate than for the phosphate and nitrogen nutrients. This is because the silicate content of sewage is not enriched relative to the rivers as it is for the other nutrients.

Nitrate/Phosphate Ratio

In the open ocean, especially in deep water where all the ammonium and nitrite have been mineralized to nitrate, the nitrate/phosphate ratios are about 15-16:1. During the winter months in coastal waters, these ratios are slightly lower, in the 10 to 16:1 range, which is thought to result from the increased phosphate available in these near-shore areas. In Great Bay, the ratios ranged from less than 1:1 during bloom periods when the nitrate was nearly zero (June and July, 1976) to over 16:1 during some winter months. High values (greater than 16:1) also occurred during June, 1977 following an exceptionally vigorous bloom in May. Nitrate levels tend to recover faster from bloom initiated depletion than phosphate, resulting in high nitrate/phosphate ratios despite low absolute concentrations. However, these high ratios are unusual in that generally phosphate is removed more slowly than nitrate because of phosphate replacement from the sediments through a complex buffering process (Pomeroy et al., 1965).

Suspended Load

Measured suspended loads ranged from between 1 and 2 mg/l in near-ocean Portsmouth Harbor waters to nearly 20 mg/l in the upper estuary. Positive surface to bottom concentration gradients were quite pronounced at many stations, and reflect the significant contribution of resuspended benthic material to the total suspended load in near-bottom samples. Consequently, the average depth-weighted values contoured in Fig. AI-10a, for example, are less than the individual values, primarily because bed load injection is confined to a rather narrow band just off the bottom. The correlation with salinity (Fig. A1-10b) was generally not significant, suggesting that factors other than simple mixing and dilution may control suspended load concentrations.

The upper part of Great Bay is very shallow and nearly 60% of its area is exposed during low tide. In this area the values were reasonably high, but variable, reflecting differential settling and resuspension of tidal flat sediments disturbed by tidal currents and wind-wave activity (Anderson, 1972).

The loss-on-ignition data (which are not plotted but presented in Appendix III) indicate that the suspended matter is composed of about 20-30% organic and volatile materials. Although these data are quite scattered as well, the percentages tend to increase towards the ocean end of the estuary with increasing distance from the main source of particulate matter, i.e., the rivers and tidal flats of the upper estuary.

pH

Not suprisingly, the pH values were restricted to a rather narrow range of 7 to 8.5. The highest values were found at the estuary mouth associated with normal coastal seawater. The lower values occurred at the upper end of the estuary, usually during high runoff periods such as in October, 1977. The highest ocean end-member values were found during periods of high biological activity (as indicated by low nutrients) during the spring months (e.g. March, 1976 and May, 1977).

Dissolved Oxygen

Dissolved oxygen concentrations ranged from just under 5 ml/l during the summer to greater than 8 ml/l during the winter in the upper estuary (Fig. AI-12). Exceptionally high maximum values were observed in all seasons. Mean levels were for the most part near 100% saturation (95-105%) and are consistent with turbulence-induced equilibrium with the atmosphere. The actual values observed are, of course, a function of both sample salinity and

temperature. However, there were brief periods of oxygen saturation of less than 90% during summer months due to intense biological respiration (e.g. June and August, 1977). Localized saturation values of greater than 105% and in some cases up to 120% occurred briefly during transient plankton blooms (e.g. June, 1976).

Chlorophyll-a and Phaeophyton Pigments

Although both chlorophyll-a and phaeophyton pigments were measured at selected stations, only chlorophyll-a data are plotted in the Appendix (Fig. AI-13a). The phaeophyton pigments, which are degradation products of chlorophyll, were not plotted because of their low values and the limited amount of data. As was expected, the highest chlorophyll values (about 7 µg/l) were found during plankton blooms, generally in the early spring in upper Great Bay (April, 1976 and 1977). These highest values tended to correlate with the maximum depletions of several of the nutrients as discussed in the individual nutrient sections above. Chlorophyll values tended to remain at an intermediate value (2-5 µg/l) during summer months, with a slight increase during the early fall bloom. The lowest values (0-1 µg/l) were found during the winter months.

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Appendix I. Summary plots of:

(a) Concentration time series vs. location, and
(b) Property vs. salinity.

Figure AI-1. Salinity time series vs. location

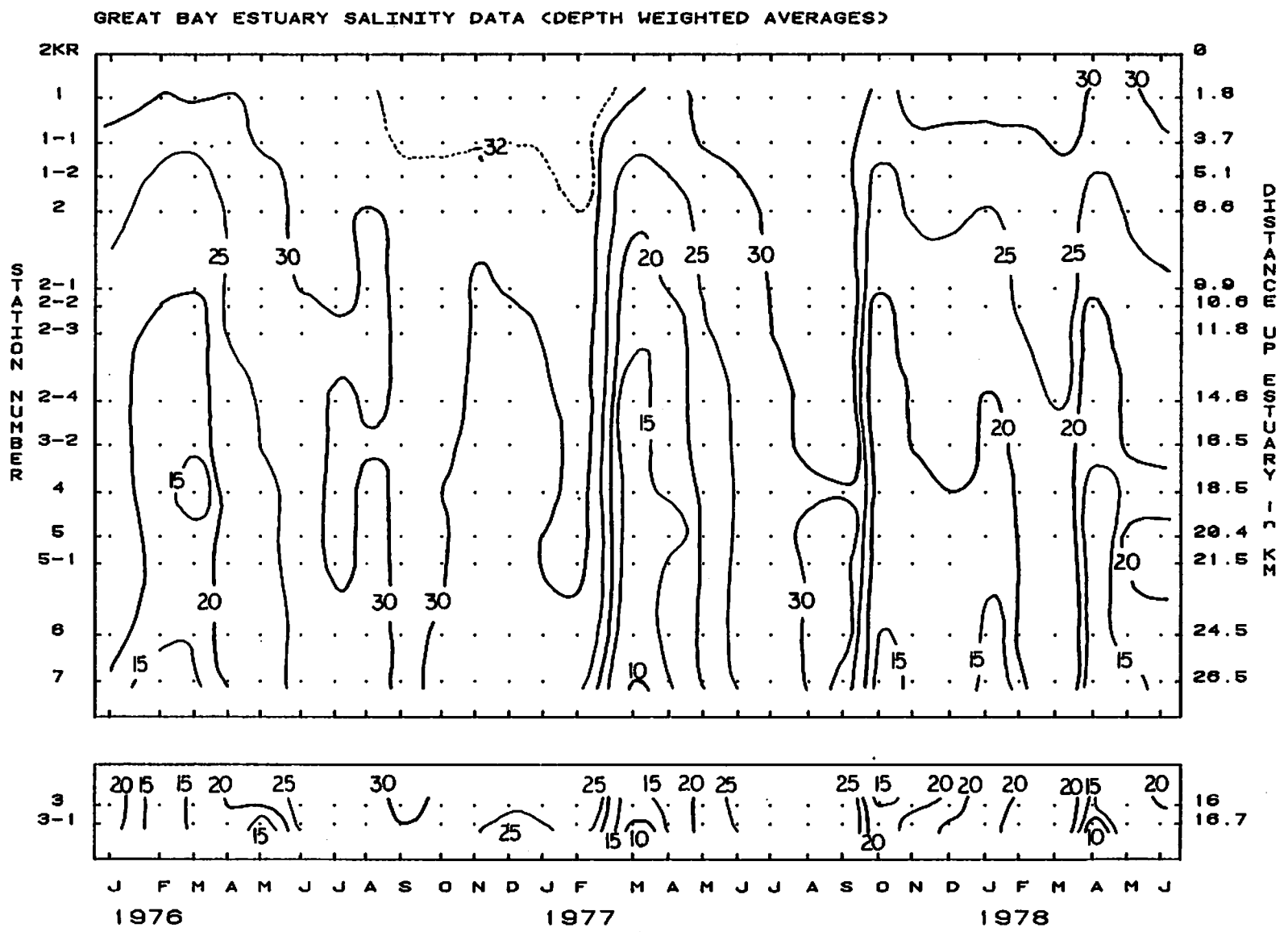


Figure AI-2a. Temperature time series vs. location

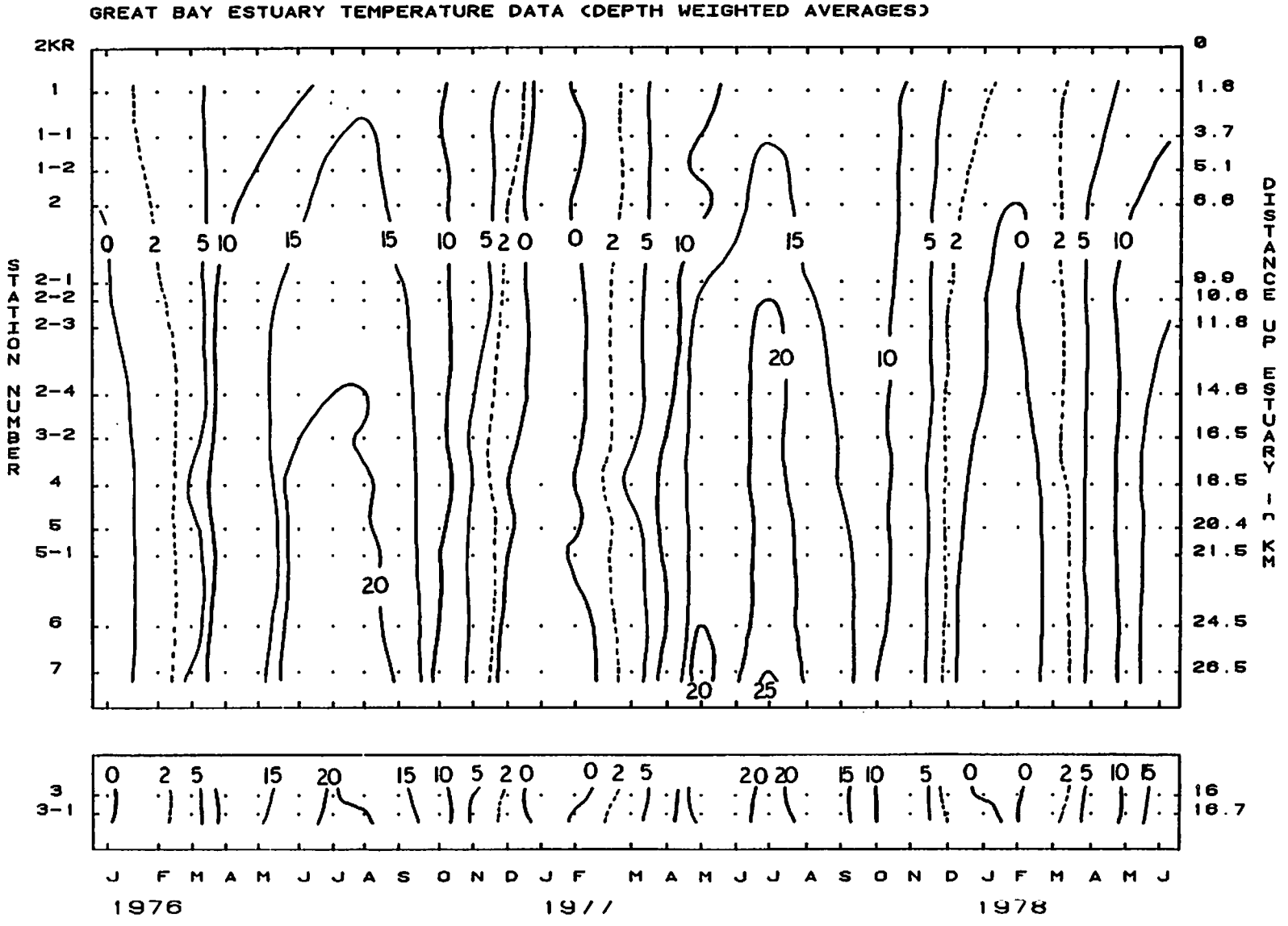


Figure AI-2b. Temperature vs. Salinity

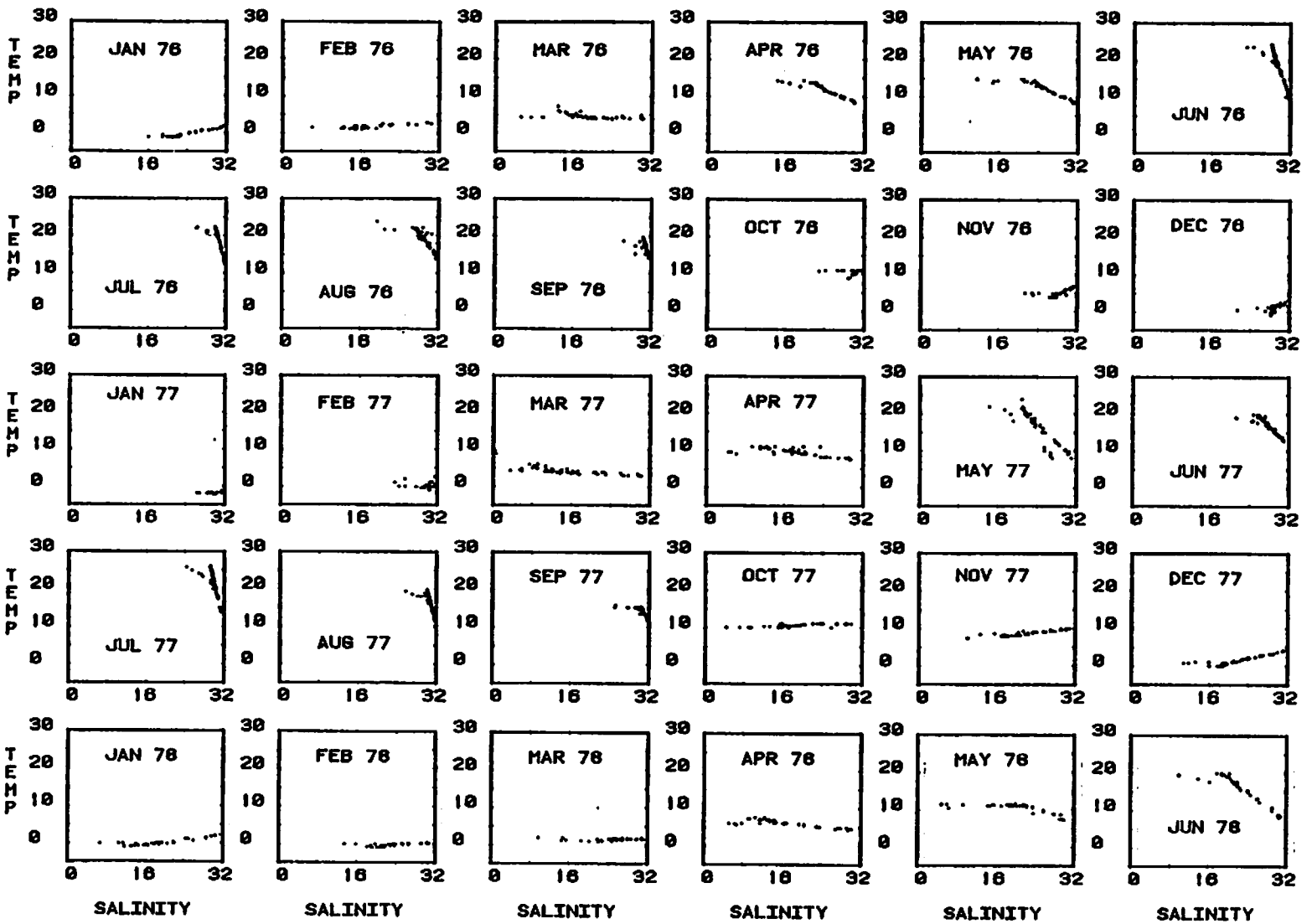


Figure AI-3a. Phosphate time series vs. location

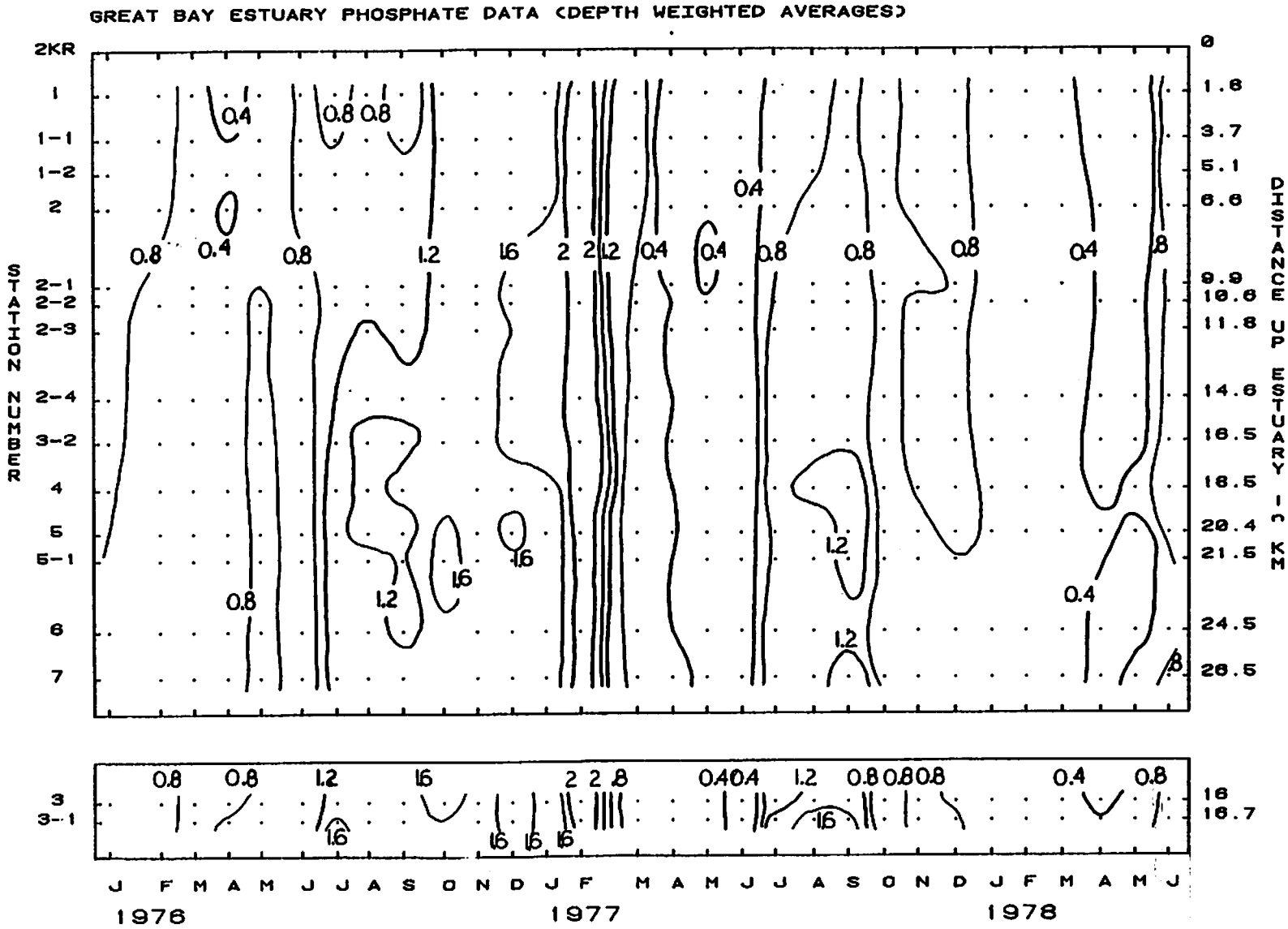


Figure AI-3b. Phosphate vs. Salinity

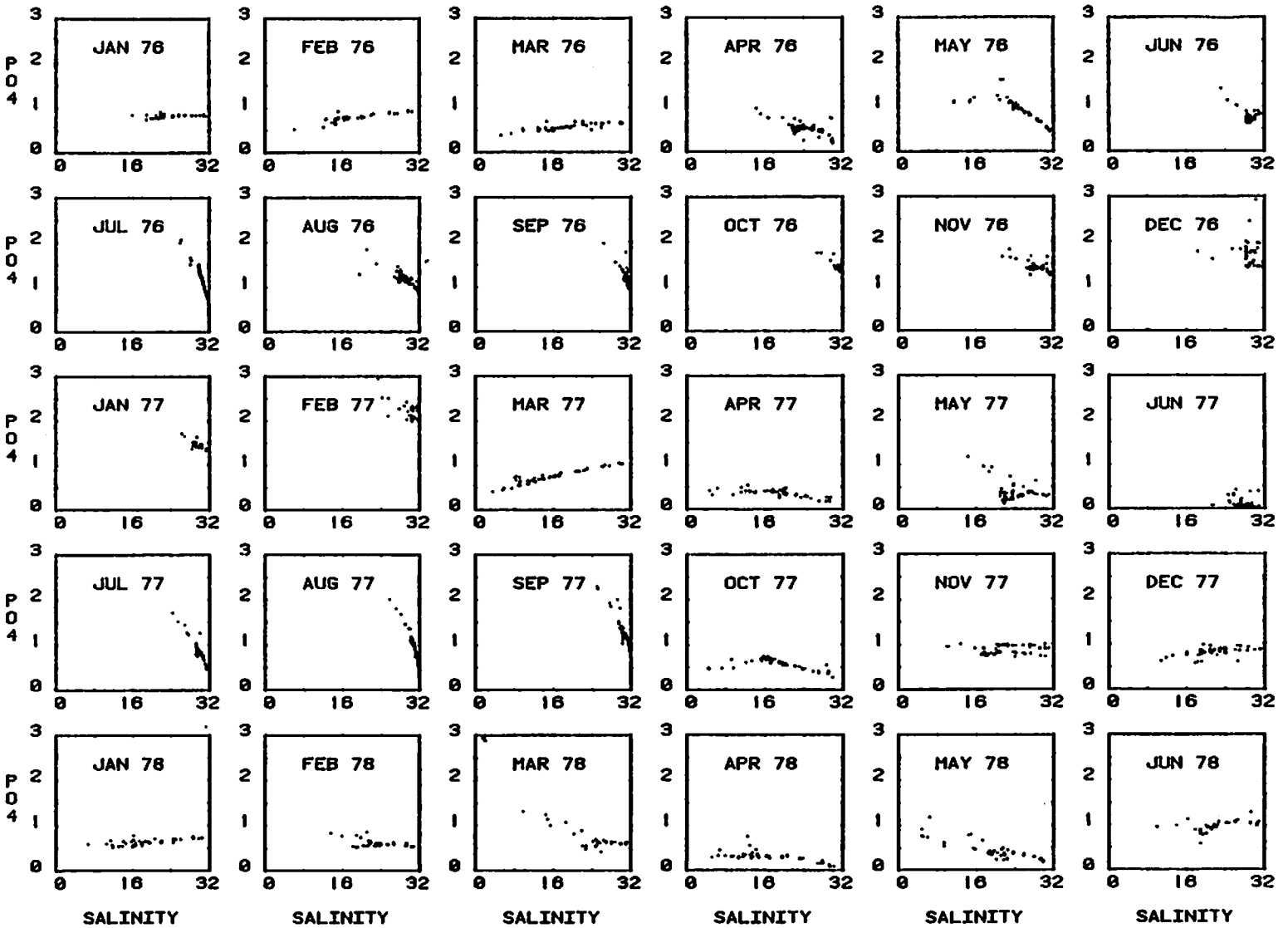


Figure AI-4a. Total Phosphate time series vs. location

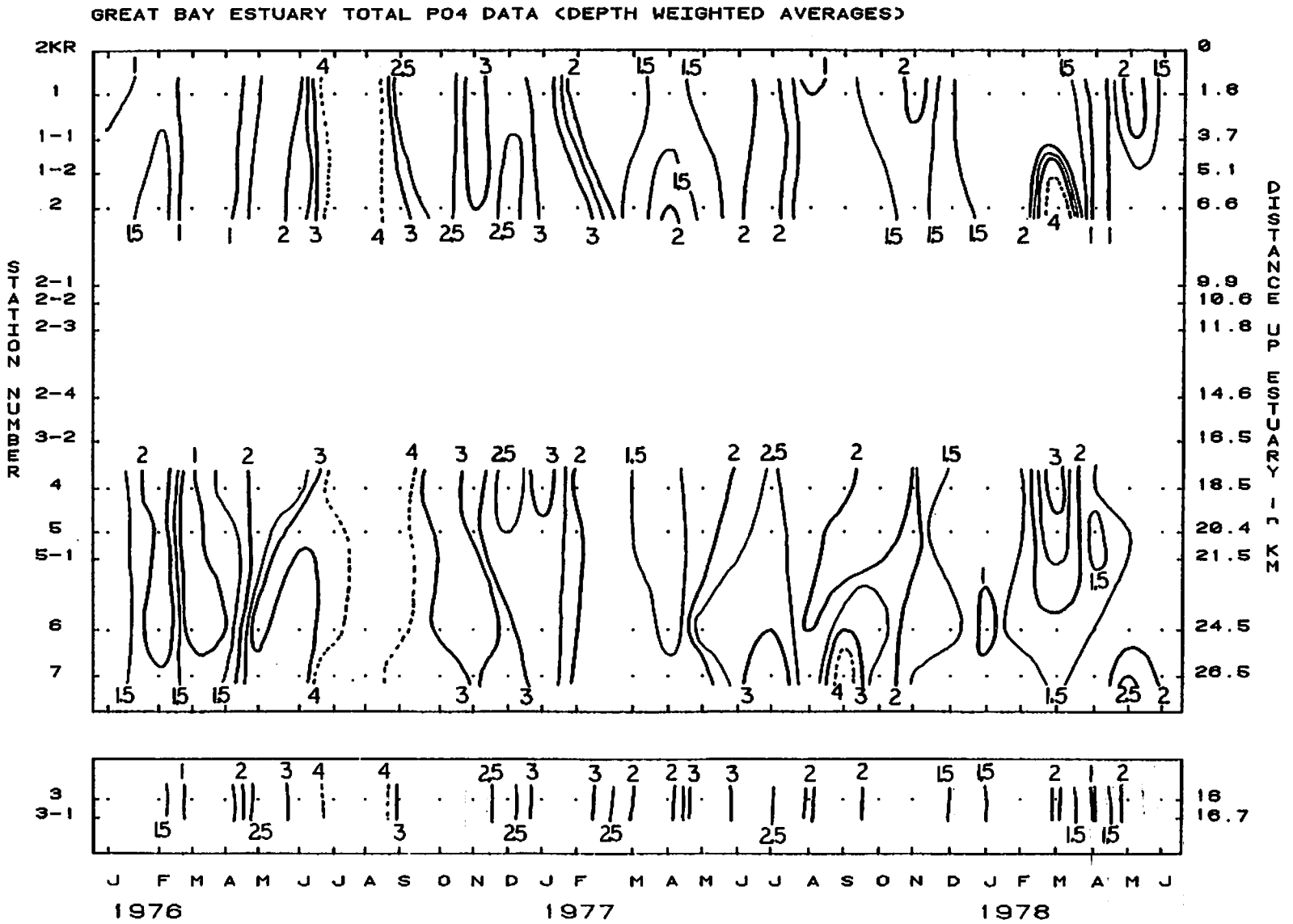


Figure AI-4b. Total Phosphate vs. Salinity

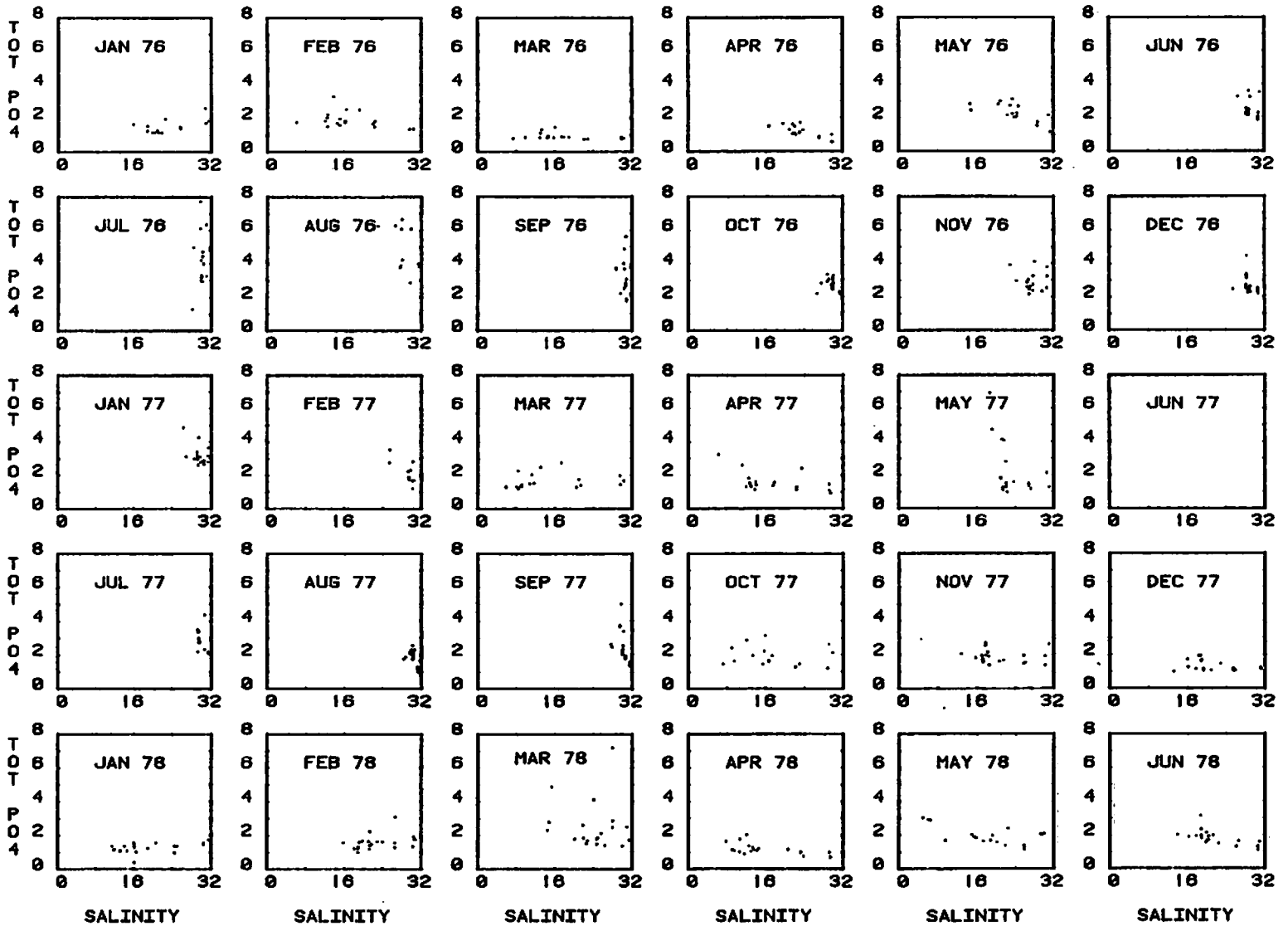


Figure AI-5a. Nitrate time series vs. location

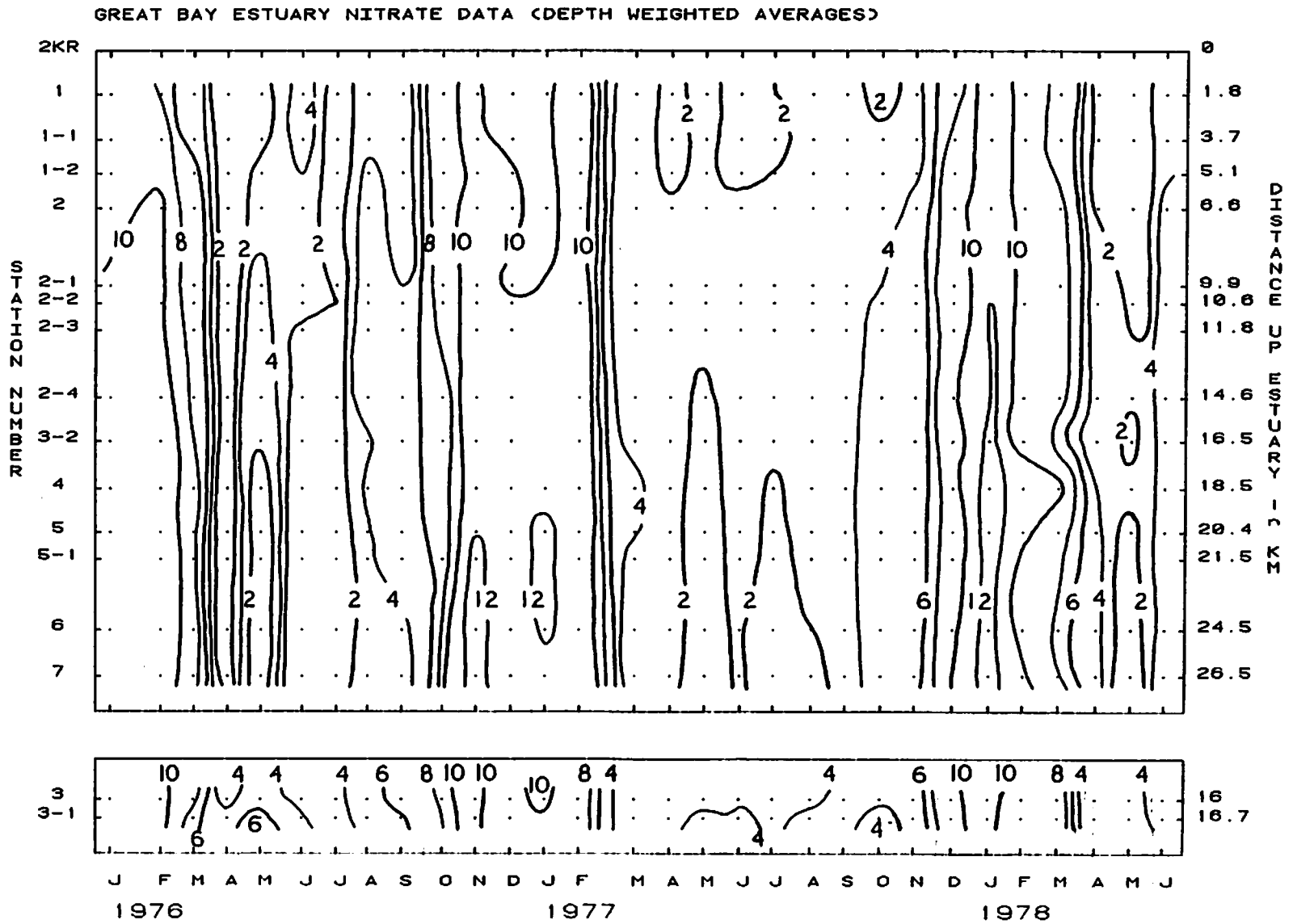


Figure AI-5b. Nitrate vs. Salinity

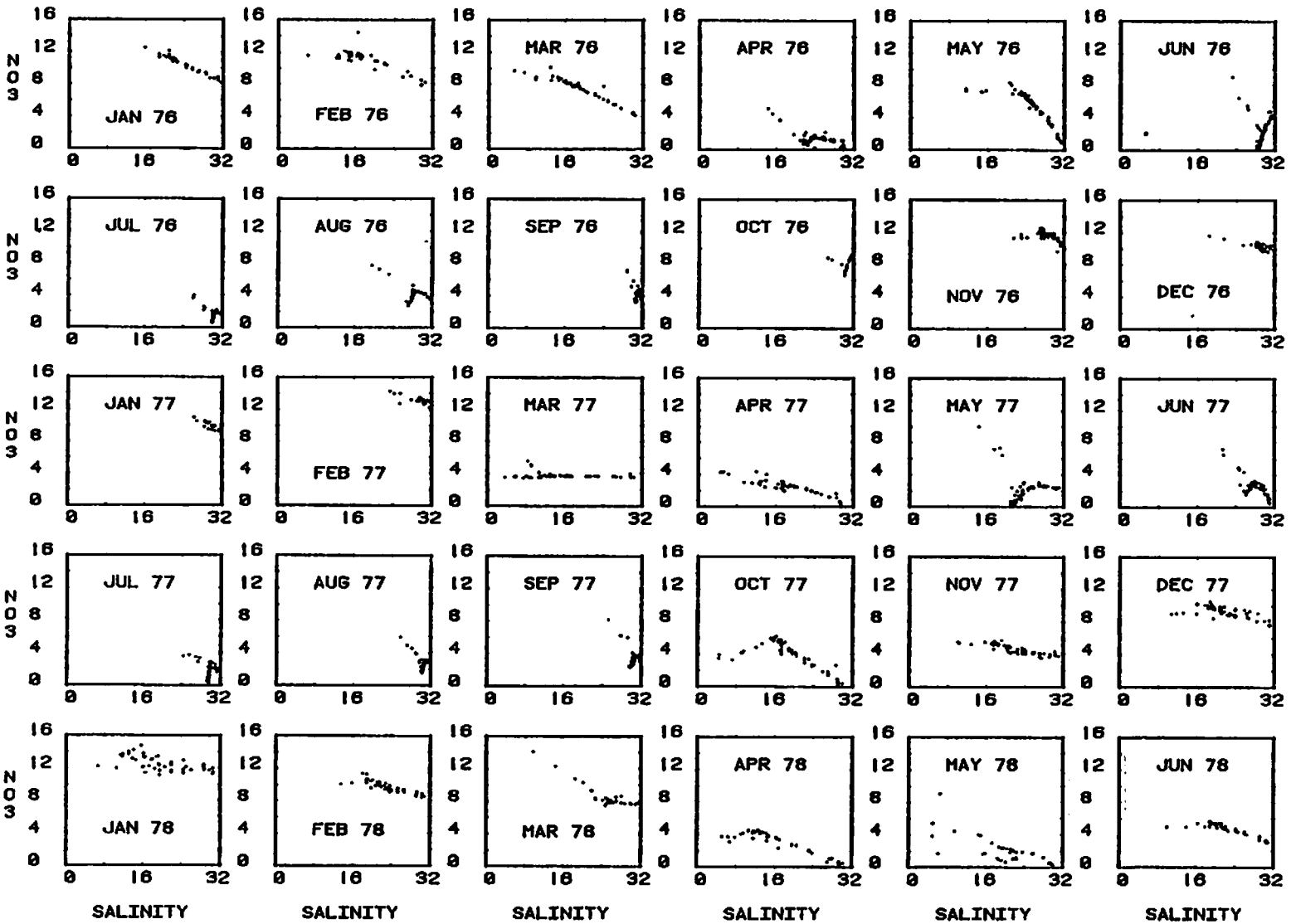


Figure AI-6a. Nitrite time series vs. location

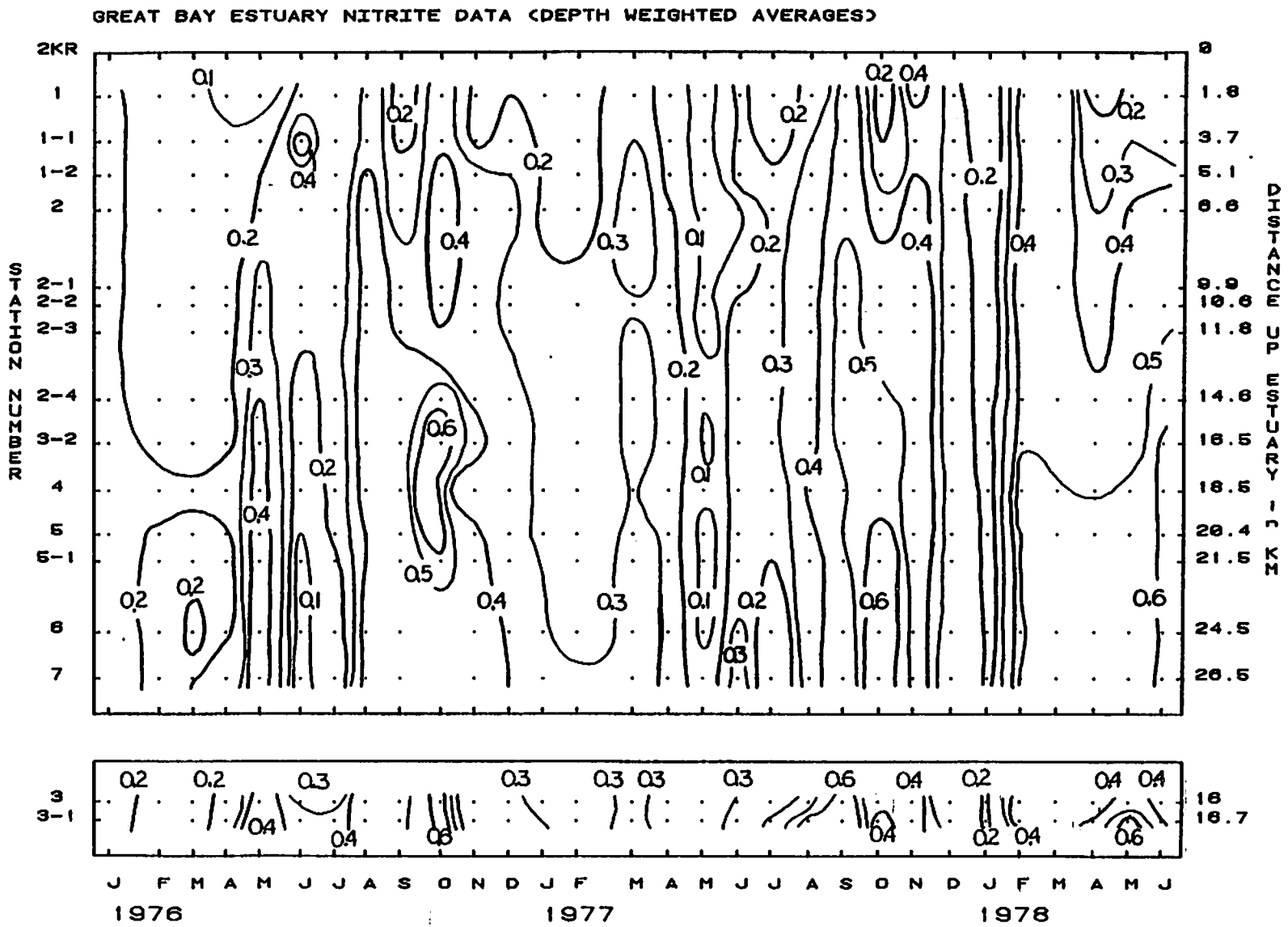


Figure AI-6b. Nitrite vs. Salinity

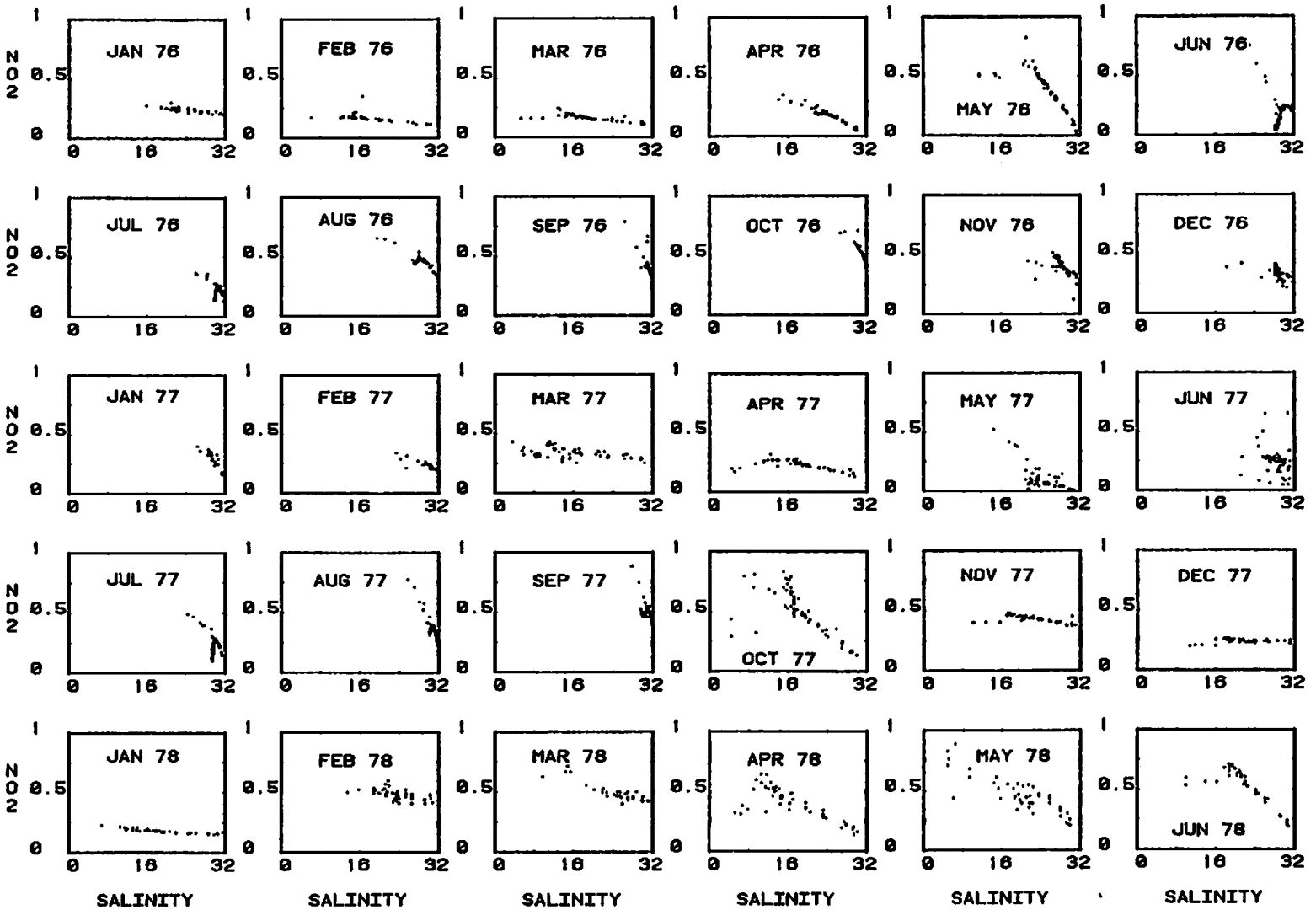


Figure AI-7a. Ammonium time series vs. location

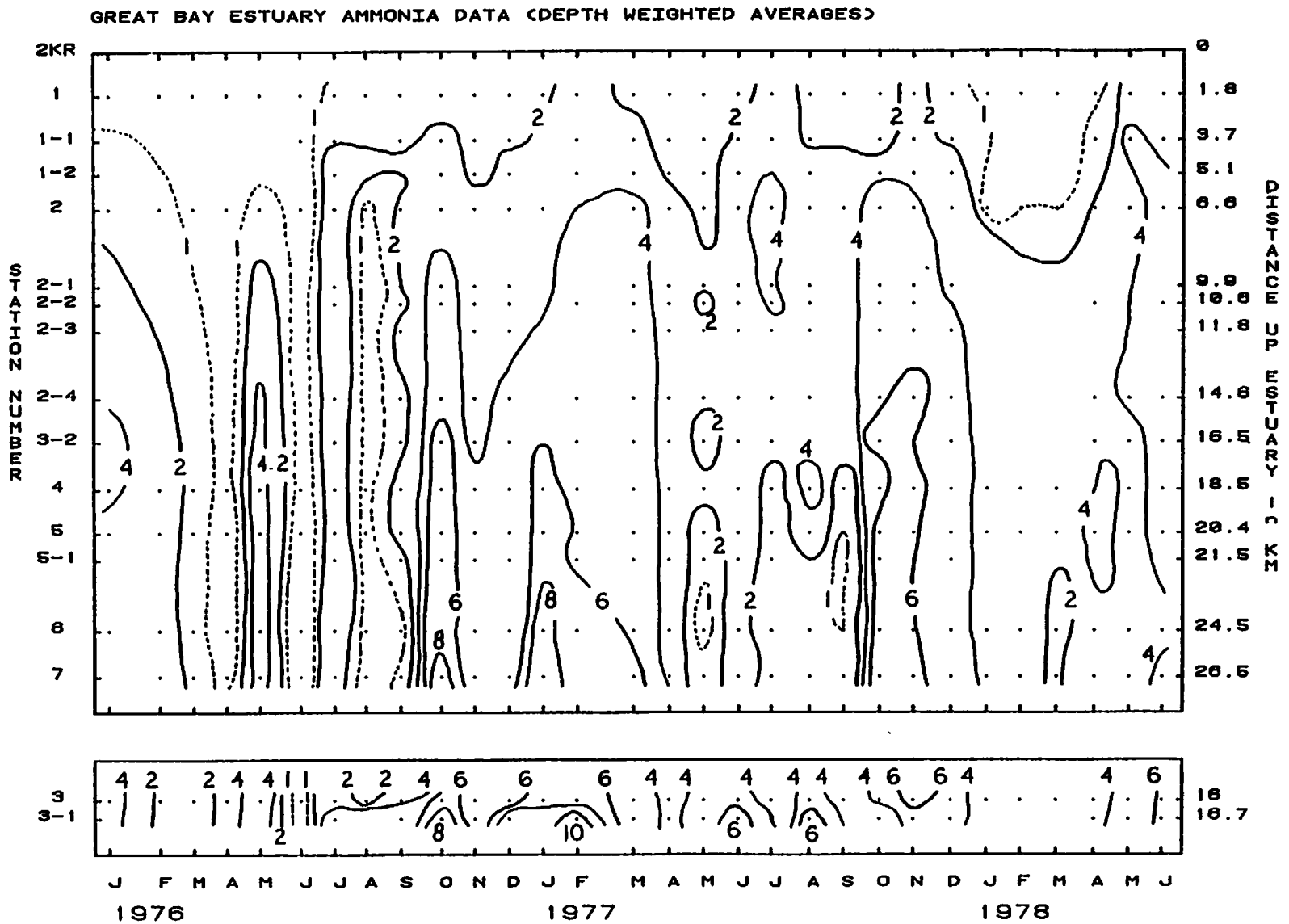


Figure AI-7b. Ammonium vs. salinity

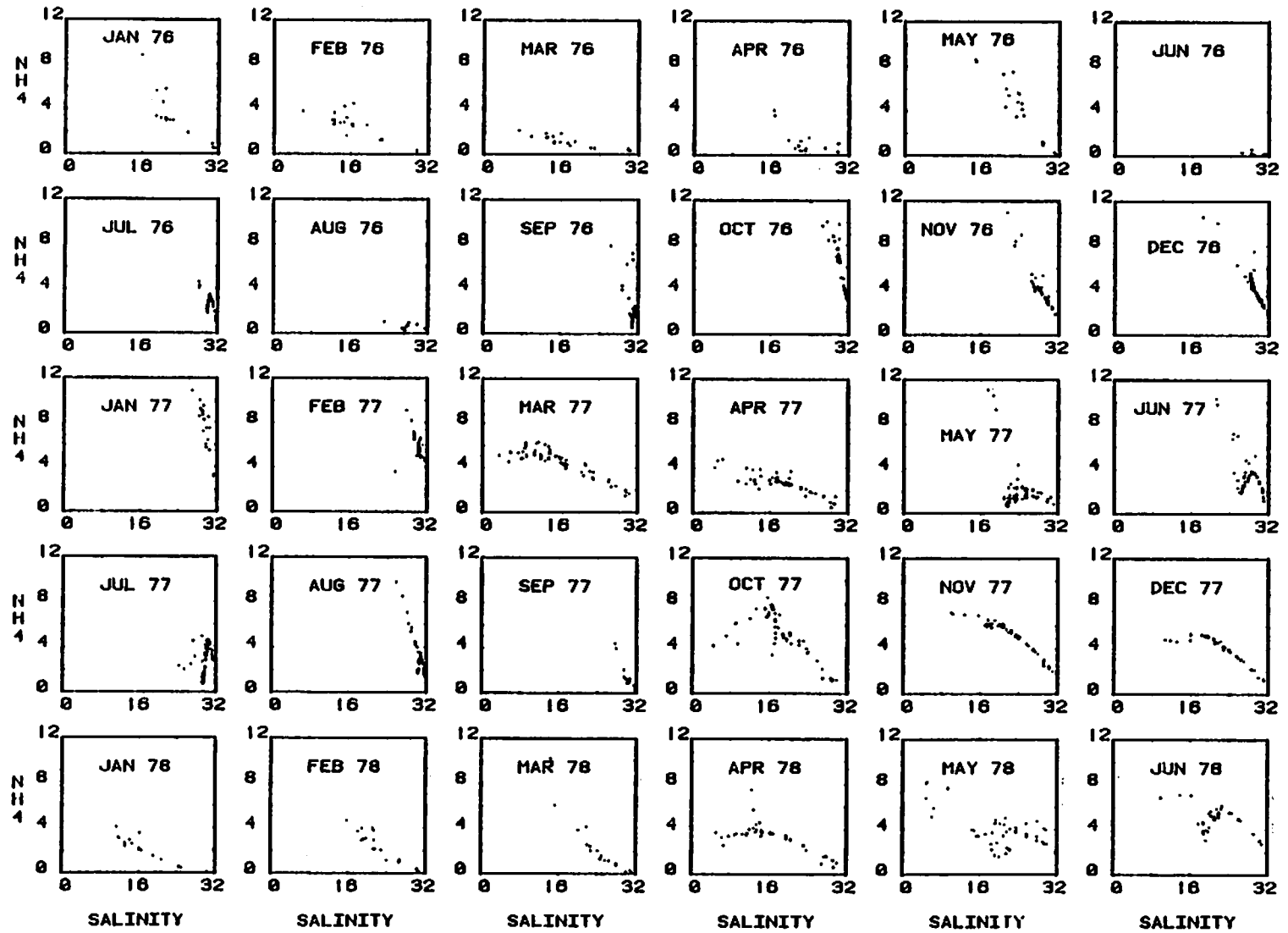


Figure AI-8a. Silicate time series vs. location

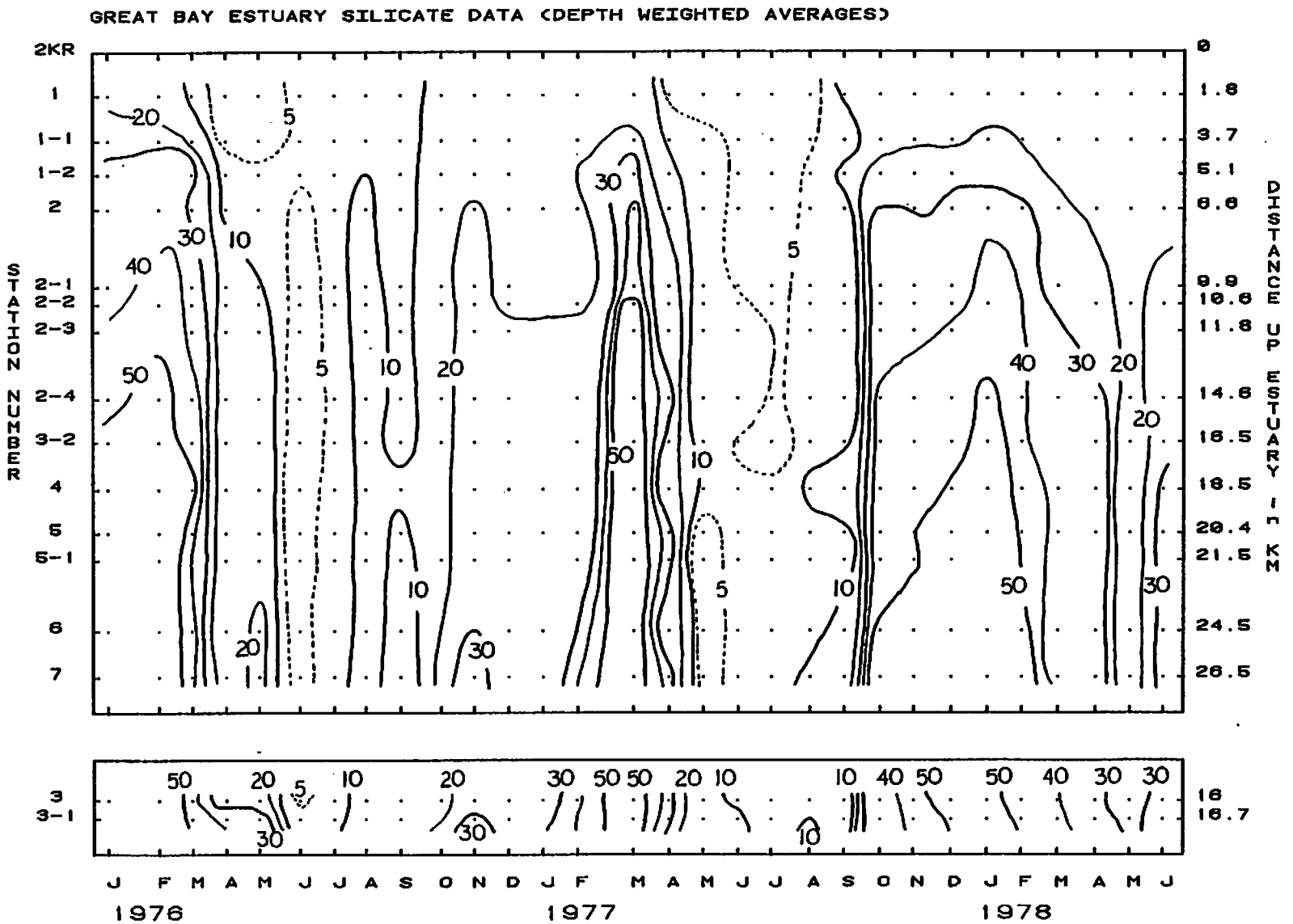


Figure AI-8b. Silicate vs. salinity

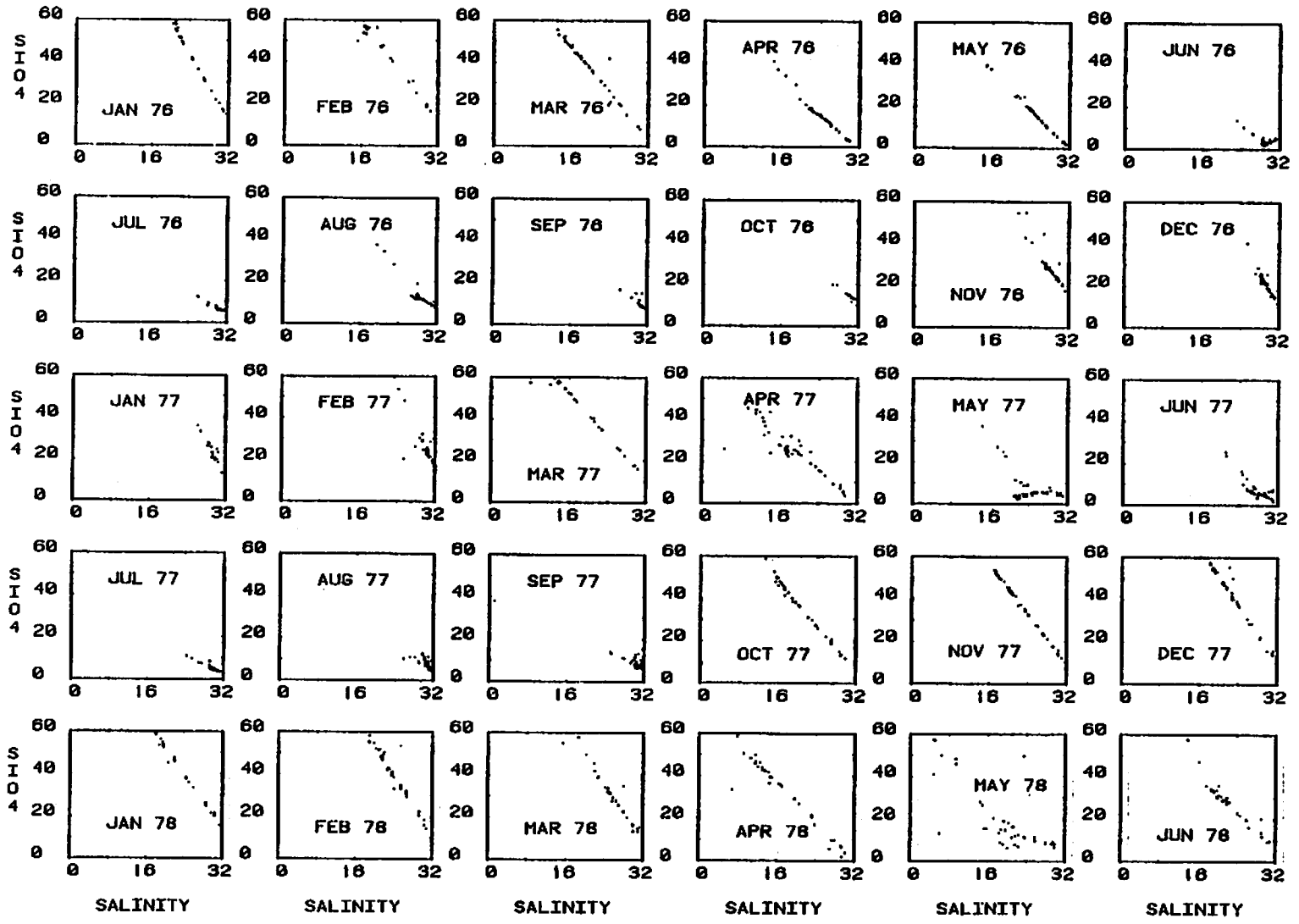


Figure AI-9a. Nitrate/Phosphate Ratio time series vs. location

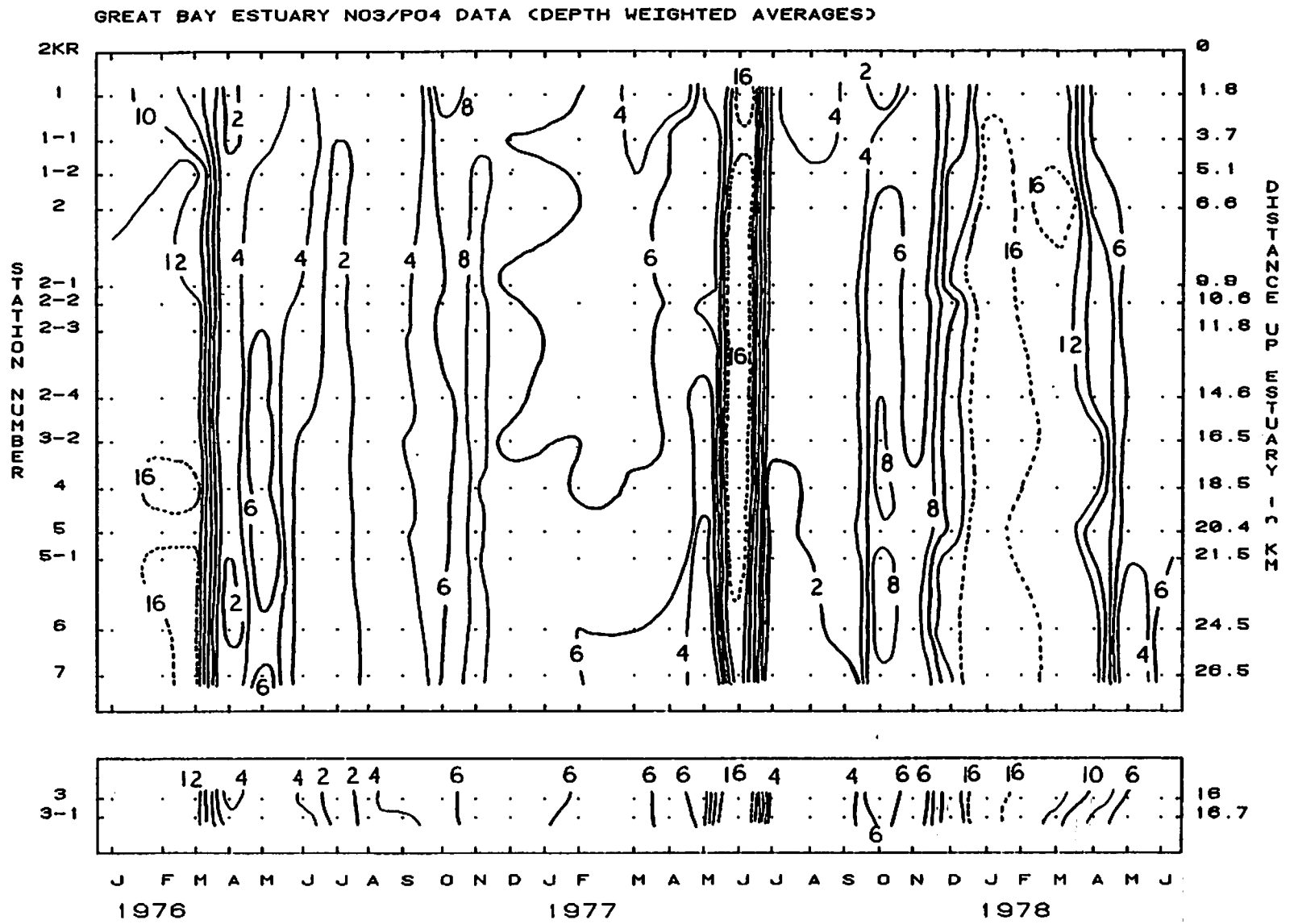


Figure AI-9b. Nitrate/Phosphate ratio vs. salinity

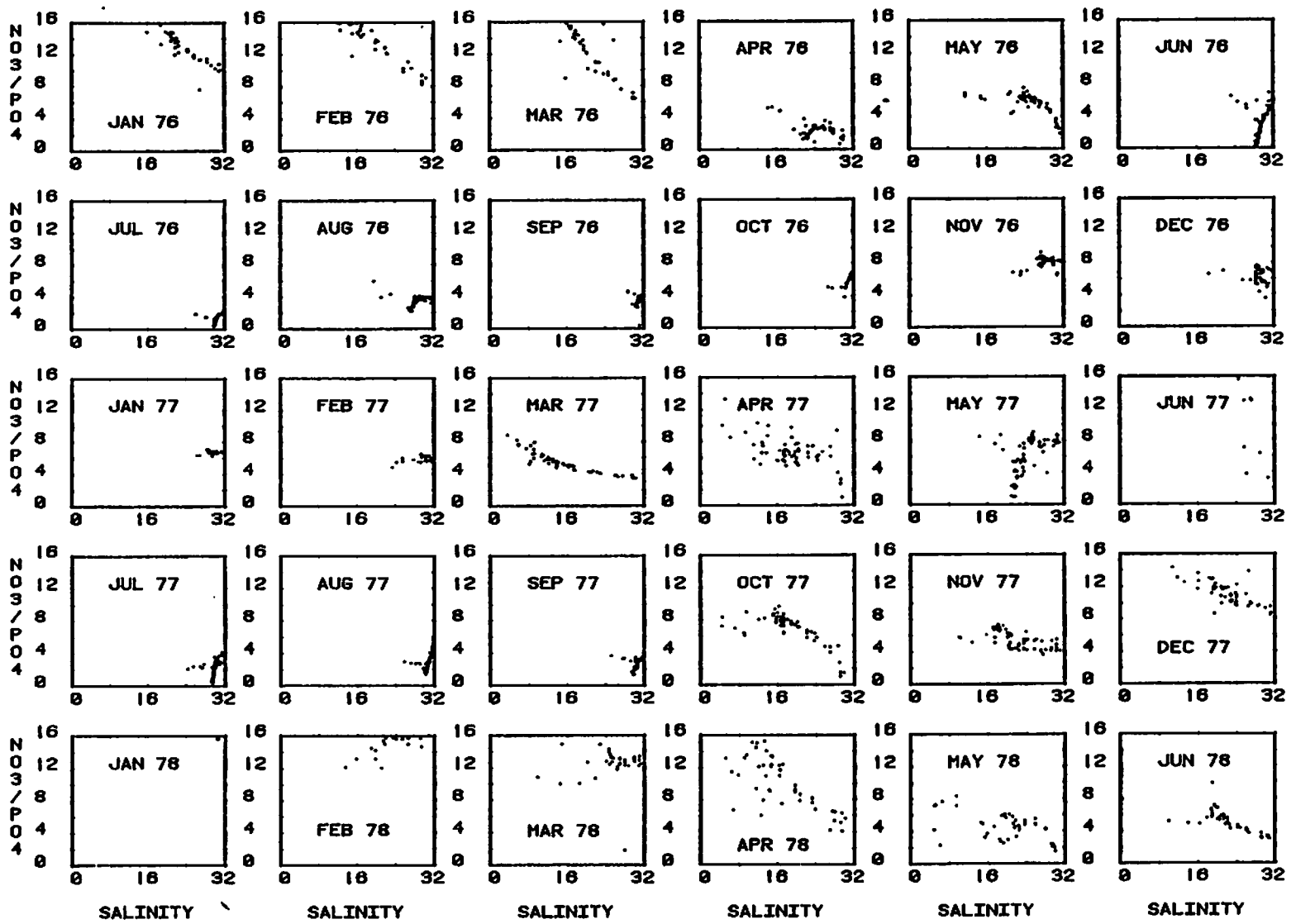


Figure AI-10a. Suspended Load time series vs. location

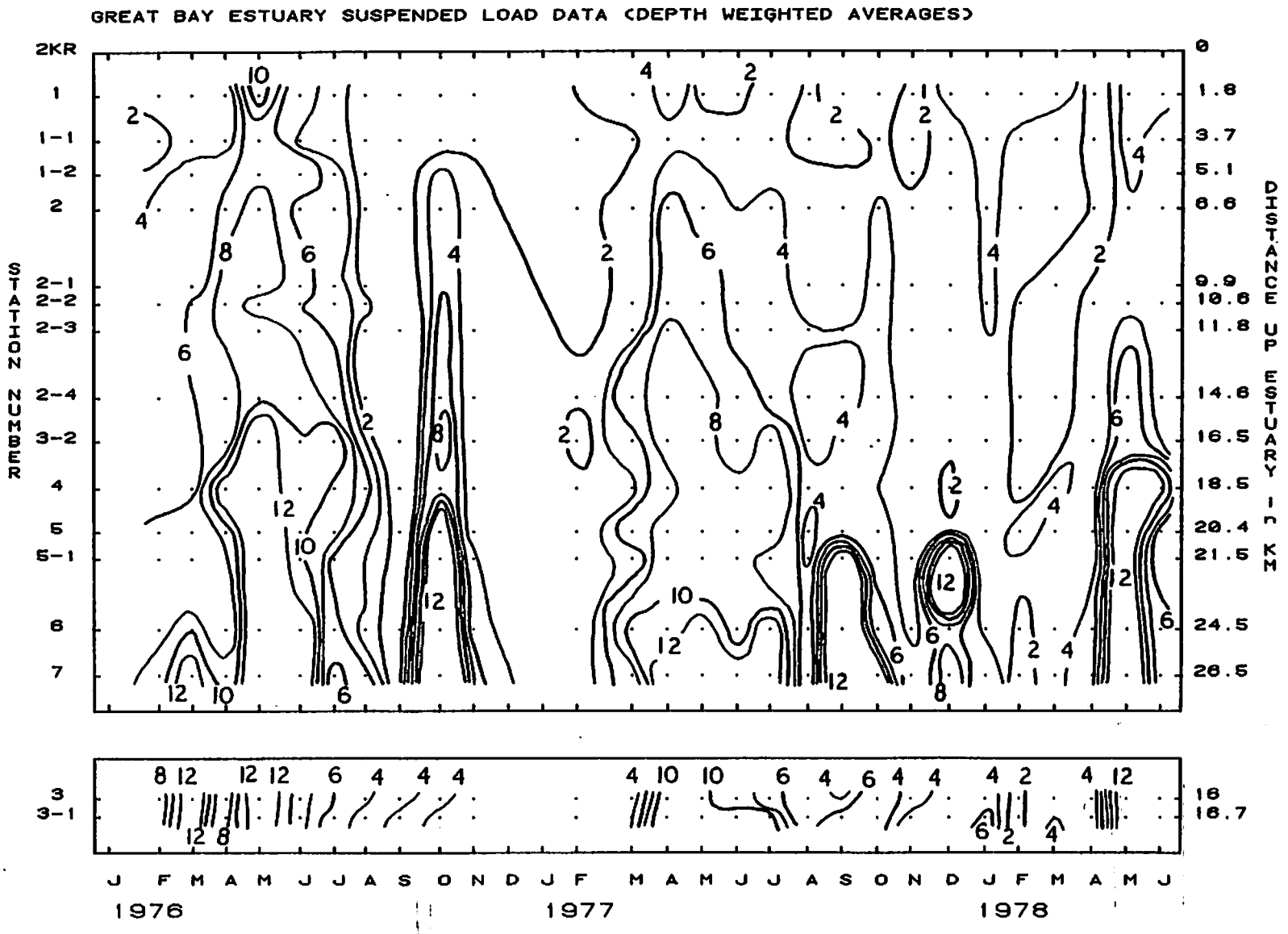


Figure AI-10b. Suspended Load vs. Salinity

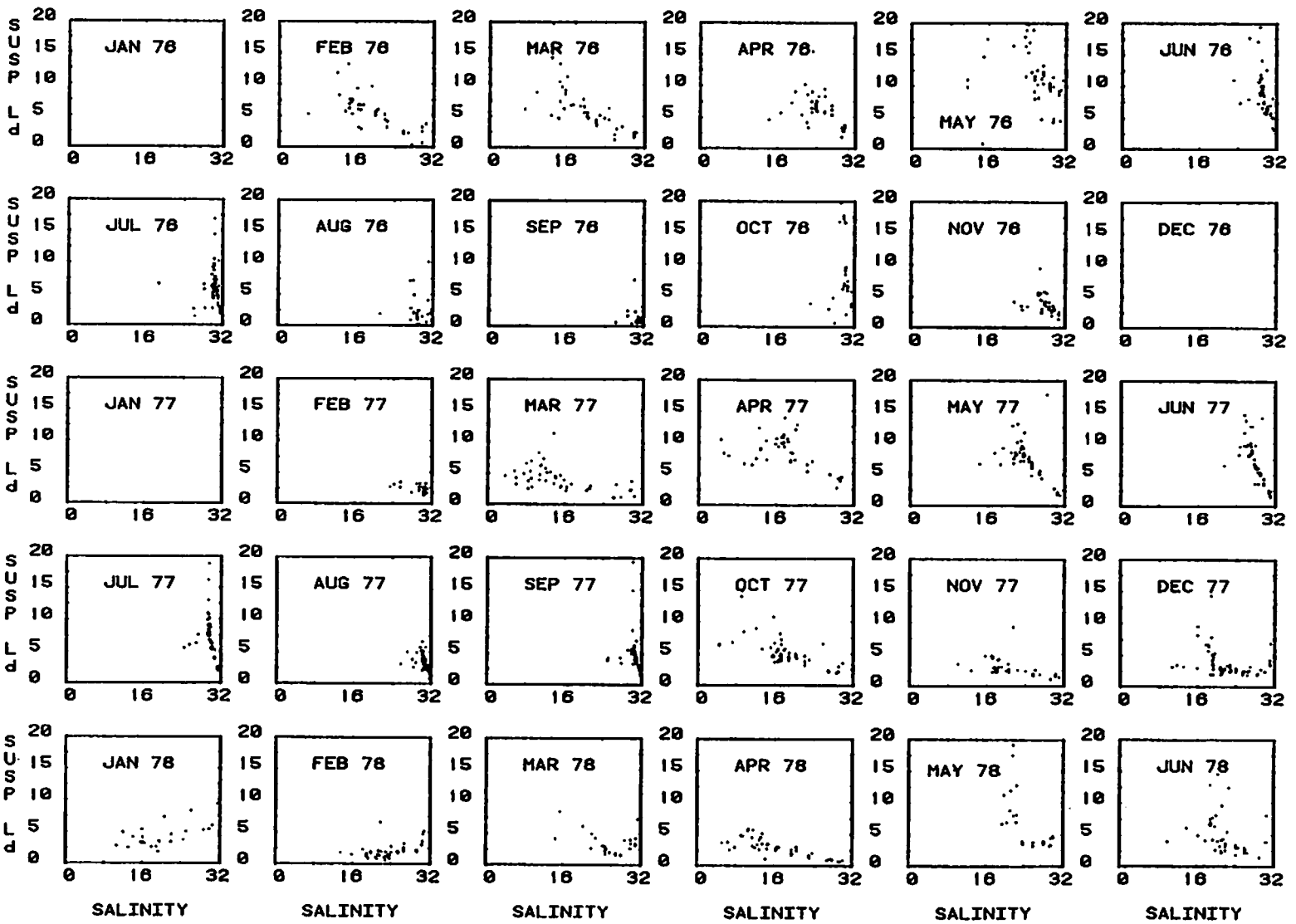


Figure AI-11a. pH time series vs. location

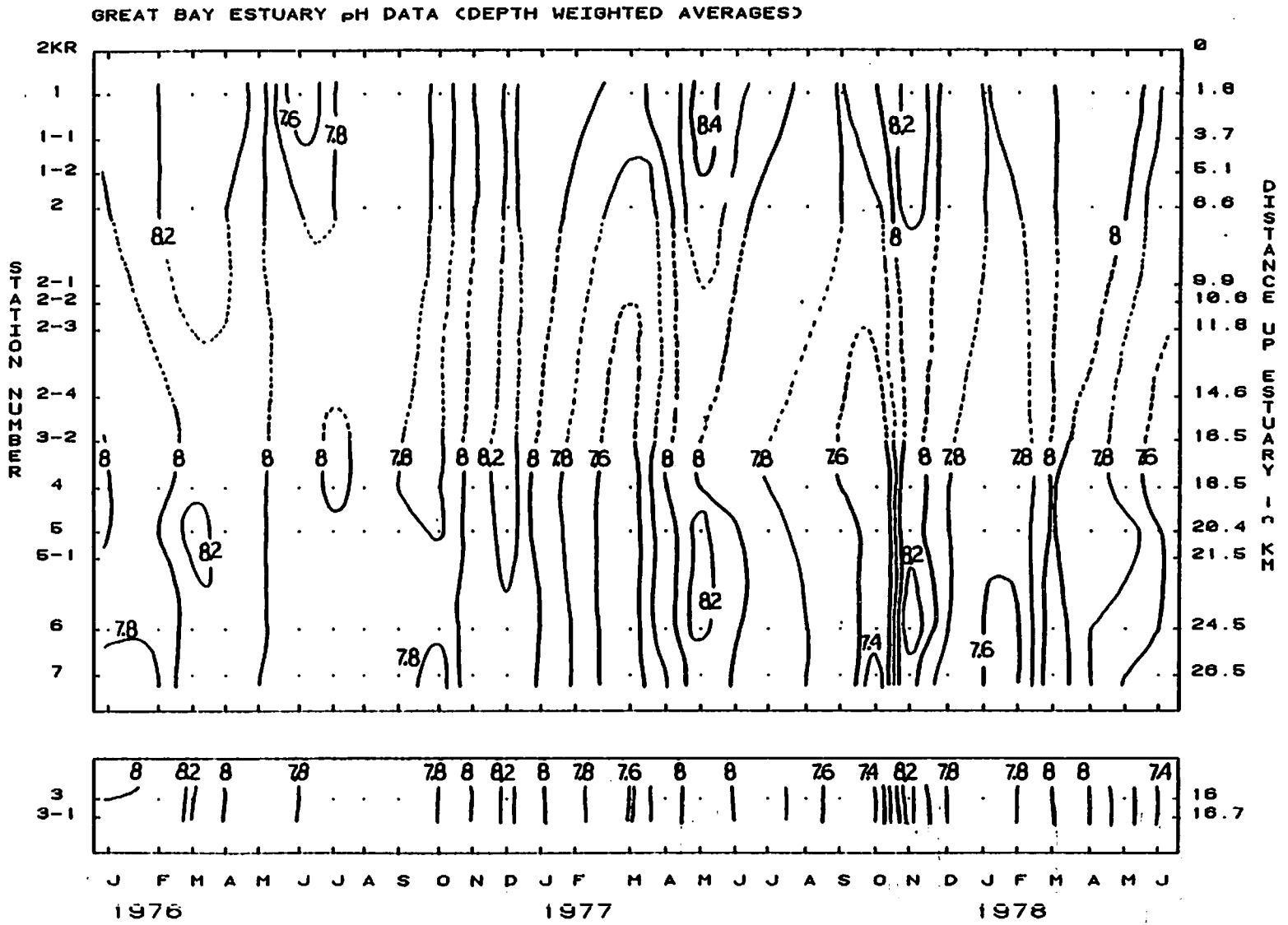


Figure AI-11b. pH vs. Salinity

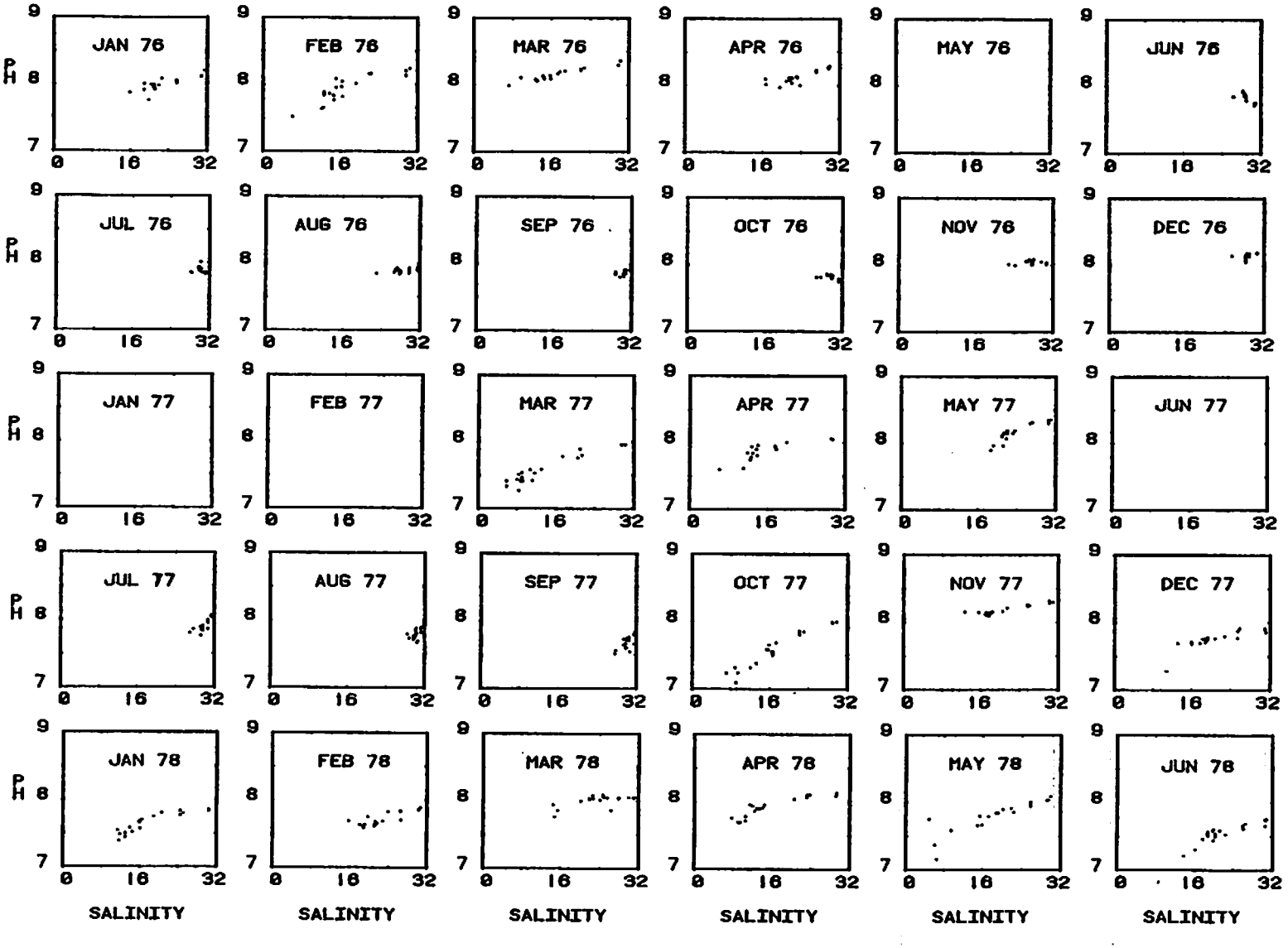


Figure AI-12. Dissolved Oxygen time series vs. location

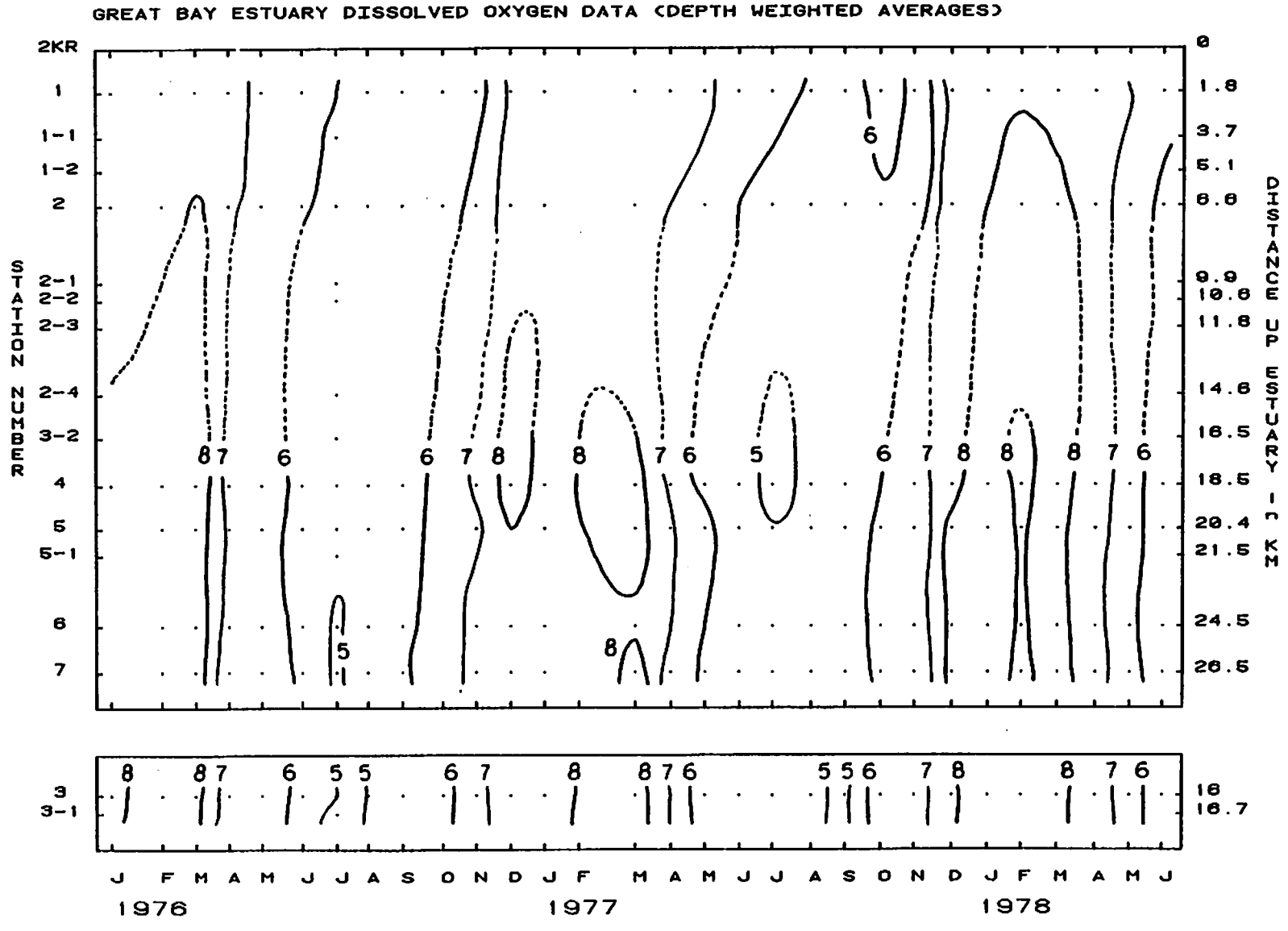
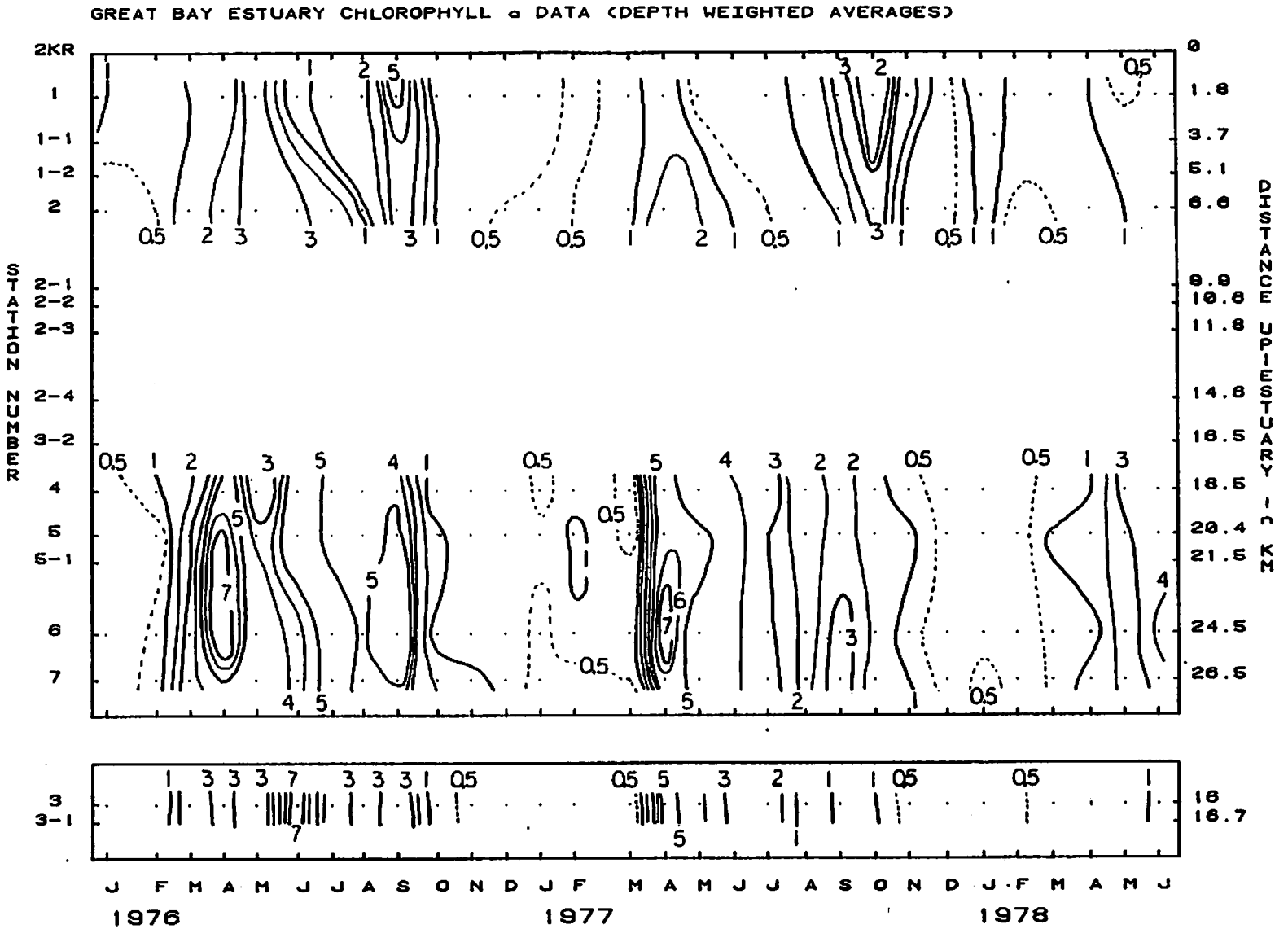


Figure AI-13. Chlorophyll-a time series vs. location



Appendix II. Tables of Depth-Weighted Averaged Data Computed Using the Procedures described in Appendix I Data Discussion and Figure 2.

Table AII - 1

SALINITY: DEPTH WEIGHTED MEAN AT STATION:

CRUISE	DATE	1	1-1	1-2	2	2-1	2-2	2-3	2-4	3	3-1	3-2	4	5	5-1	6	7
1	1/13/76	31.083	29.447	27.020	25.676	24.513	---	---	22.475	21.150	---	22.091	20.938	21.079	---	21.238	---
2	2/24/76	29.921	26.902	---	21.998	---	20.006	---	17.153	13.756	---	16.992	15.691	15.096	15.300	16.303	14.479
3	3/24/76	30.061	26.864	24.145	22.591	20.340	19.607	18.782	17.887	15.326	15.127	17.495	14.342	16.826	16.107	15.291	14.876
4	4/21/76	29.886	29.572	27.710	27.049	25.996	25.631	25.097	24.209	20.724	17.966	23.947	22.746	23.014	23.023	22.132	21.244
5	5/19/76	31.213	30.644	29.308	28.637	27.292	26.942	26.170	25.520	21.027	14.401	25.229	23.825	24.098	24.019	22.822	22.249
6	6/22/76	31.914	31.577	31.116	30.691	30.090	29.892	29.393	29.142	28.150	27.707	29.115	28.824	28.698	28.549	28.411	28.347
7	7/21/76	31.702	31.465	31.170	30.999	30.720	30.663	---	30.367	29.679	28.168	30.258	30.197	30.127	30.082	29.939	29.775
8	8/17/76	31.620	31.052	30.299	29.797	29.199	28.932	28.672	28.078	27.633	26.371	30.497	27.973	27.871	27.806	27.468	27.121
9	9/15/76	32.294	32.199	31.860	31.674	31.487	31.418	31.301	31.096	30.256	29.981	31.044	30.234	30.840	30.817	30.631	30.378
10	10/19/76	32.604	32.287	31.573	31.342	31.049	30.948	---	30.520	29.000	26.745	30.228	29.876	30.099	30.034	29.722	29.032
11	11/16/76	32.542	32.250	31.240	30.585	29.872	29.618	29.260	28.595	27.773	26.878	28.439	27.560	27.705	27.519	27.253	26.634
12	12/15/76	32.561	32.074	30.982	30.592	30.551	29.779	29.431	28.812	27.727	22.873	28.995	28.637	28.510	28.450	28.181	28.233
13	1/13/77	32.667	---	---	31.260	---	---	---	---	28.865	---	---	29.639	30.104	---	29.318	29.063
14	2/10/77	32.969	32.683	32.236	31.997	---	31.461	---	30.848	29.023	27.118	30.650	30.271	30.279	30.356	29.310	---
15	3/28/77	29.967	26.989	22.917	21.244	17.338	16.472	15.582	13.854	12.455	9.801	13.268	10.151	10.865	11.539	11.281	10.030
16	4/26/77	29.312	27.808	24.994	22.996	20.517	19.764	19.173	17.709	16.787	15.787	18.211	15.697	12.898	15.400	16.150	14.953
17	5/25/77	30.781	30.090	28.257	27.034	25.611	25.218	24.866	23.498	22.026	23.490	23.239	22.277	22.058	22.235	21.515	21.362
18	6/23/77	31.032	30.663	30.011	29.589	29.123	28.893	28.440	27.946	26.694	25.775	27.729	27.037	27.010	26.855	26.444	25.633
19	7/21/77	31.324	31.224	30.727	30.603	30.083	30.162	29.994	29.841	28.842	27.264	29.822	29.367	29.537	29.516	29.405	29.288
20	8/23/77	31.742	31.619	31.349	31.214	31.043	30.963	30.912	30.782	29.816	28.035	30.682	29.687	30.443	30.414	30.312	30.178
21	9/20/77	31.773	31.762	31.487	31.391	30.654	31.157	30.954	30.895	29.846	28.330	30.755	29.893	30.500	30.433	30.127	29.567
22	10/20/77	29.292	27.750	24.028	22.590	20.313	19.524	18.860	17.490	15.319	17.840	17.701	16.147	16.568	16.350	15.049	13.018
23	11/17/77	30.564	29.725	27.292	25.844	24.080	23.403	22.103	20.753	19.545	20.500	20.628	19.475	18.083	18.404	17.863	17.962
24	12/19/77	31.037	29.405	26.763	25.657	24.126	23.624	23.009	21.334	20.335	19.845	21.271	19.857	19.218	19.475	18.488	17.492
25	1/19/78	30.888	29.252	---	24.833	---	22.031	---	19.478	17.368	19.286	18.706	17.073	16.477	---	14.557	13.373
26	2/15/78	30.622	29.763	---	26.561	---	25.345	---	23.592	22.227	22.270	23.284	21.840	21.596	---	20.674	19.888
27	3/16/78	30.968	30.310	---	27.861	26.881	---	---	25.301	24.589	24.227	---	21.498	24.068	---	23.711	23.666
28	4/17/78	29.656	27.378	---	23.563	---	20.111	---	16.581	15.010	6.574	16.025	13.433	13.740	---	11.962	11.144
29	5/16/78	29.803	28.599	---	25.767	---	23.547	---	20.708	18.065	16.675	22.102	15.840	20.450	---	18.546	13.953
30	6/13/78	30.660	29.658	---	26.348	---	24.403	---	21.930	20.102	18.956	21.544	19.332	20.858	---	19.535	19.190

Table AII - 2

TEMPERATURE: DEPTH WEIGHTED MEAN AT STATION:

CRUISE	DATE	1	1-1	1-2	2	2-1	2-2	2-3	2-4	3	3-1	3-2	4	5	5-1	6	7
1	1/13/76	1.6	1.0	0.7	0.2	0.0	---	---	-0.8	-0.5	---	-1.0	-1.1	-1.2	---	-0.9	---
2	2/24/76	2.7	2.3	---	2.1	---	1.9	---	1.4	1.7	---	1.6	1.9	1.3	1.3	1.1	1.1
3	3/24/76	4.0	4.1	4.0	4.0	4.1	4.2	4.2	4.3	4.3	4.1	4.5	6.8	4.7	4.7	4.7	5.1
4	4/21/76	8.5	8.7	9.7	9.9	10.7	10.8	11.0	11.5	12.4	13.0	11.8	13.4	12.6	12.7	13.3	13.9
5	5/19/76	8.7	9.2	10.0	10.2	11.0	11.2	11.7	12.4	13.0	14.4	12.6	12.9	13.2	13.6	14.1	14.5
6	6/22/76	8.9	10.7	12.7	14.1	16.4	17.0	18.6	19.4	19.8	19.5	19.8	20.7	21.7	21.9	23.0	23.4
7	7/21/76	12.9	14.4	15.7	17.0	18.3	18.6	---	19.9	20.1	20.8	20.4	20.8	21.0	21.4	21.9	22.3
8	8/17/76	14.1	15.5	17.1	17.5	19.0	19.2	19.5	20.1	19.9	20.5	20.4	20.8	21.1	21.2	21.6	21.9
9	9/15/76	12.8	13.2	14.2	14.8	15.0	15.2	15.4	16.2	15.4	17.4	16.5	17.5	17.1	17.6	18.1	19.5
10	10/19/76	10.4	10.2	10.9	11.0	11.0	11.0	---	10.5	11.0	11.0	10.2	10.8	10.2	10.0	10.0	9.1
11	11/16/76	7.5	7.5	6.6	6.0	6.0	6.0	5.5	5.0	5.0	4.5	4.8	5.0	4.4	4.0	4.0	4.0
12	12/15/76	3.4	3.1	2.1	2.0	1.6	1.8	1.8	1.5	1.3	0.4	0.2	0.0	0.3	-0.1	-0.6	-0.5
13	1/13/77	-0.7	---	---	-1.9	---	---	---	---	-2.0	---	---	-1.8	-1.9	---	-1.9	-1.9
14	2/10/77	0.1	0.2	-0.3	-0.3	---	0.1	---	-0.1	0.1	-0.1	-0.2	0.2	-0.1	-0.8	-0.4	---
15	3/28/77	3.0	3.1	3.4	3.4	3.6	3.8	3.7	4.0	3.9	4.1	4.1	5.7	4.4	4.2	4.2	4.4
16	4/26/77	7.6	8.0	8.0	8.4	9.3	9.1	9.2	9.6	9.0	9.1	10.0	10.5	10.4	10.1	10.0	10.9
17	5/25/77	8.8	9.7	11.8	8.3	14.4	15.0	15.9	17.6	17.5	16.3	18.1	19.8	19.4	19.3	20.1	20.7
18	6/23/77	12.9	13.4	14.0	14.4	15.1	15.3	16.0	17.0	17.1	17.0	17.4	19.1	18.1	18.3	19.1	19.7
19	7/21/77	13.9	14.4	17.4	18.0	19.4	20.0	20.4	21.5	22.2	23.4	22.5	24.5	23.9	23.9	24.6	25.0
20	8/23/77	11.0	12.1	13.7	14.1	15.0	15.3	15.8	16.2	17.0	18.3	17.0	18.4	17.8	18.1	18.7	19.4
21	9/20/77	12.0	12.2	13.0	13.2	13.6	13.6	14.0	14.1	15.3	15.4	14.9	14.8	15.2	15.4	15.2	15.5
22	10/20/77	11.0	11.0	11.0	11.0	10.7	10.7	10.5	10.5	10.0	10.0	10.5	10.7	10.5	10.5	10.3	10.0
23	11/17/77	9.9	9.7	9.2	9.1	8.9	8.7	8.4	8.1	9.0	8.3	8.2	8.2	7.9	8.0	7.9	7.9
24	12/19/77	4.1	3.6	3.0	2.4	2.1	2.0	2.0	1.2	1.4	1.7	1.1	1.0	0.6	0.7	0.1	0.1
25	1/19/78	2.1	1.7	---	1.0	---	0.0	---	0.0	-0.2	0.3	-0.1	-0.6	-0.6	---	-0.8	-1.0
26	2/15/78	0.3	0.3	---	0.0	---	0.0	---	-0.2	0.0	0.0	-0.3	-0.3	-0.7	---	-0.8	-0.9
27	3/16/78	1.6	1.5	---	1.5	1.6	---	---	1.5	1.5	1.5	---	1.6	1.3	---	1.0	1.1
28	4/17/78	4.5	4.8	---	5.1	---	5.8	---	6.0	5.9	5.7	6.1	6.9	6.9	---	7.0	7.1
29	5/16/78	7.3	8.9	---	9.8	---	10.7	---	11.0	11.0	11.1	11.1	10.9	11.2	---	11.4	11.3
30	6/13/78	8.4	9.4	---	12.4	---	14.5	---	16.5	16.9	16.6	17.6	19.9	17.8	---	19.3	19.5

Table AII - 3.

PHOSPHATE: DEPTH WEIGHTED MEAN AT STATION:

CRUISE	DATE	1	1-1	1-2	2	2-1	2-2	2-3	2-4	3	3-1	3-2	4	5	5-1	6	7
1	1/13/76	0.82	0.83	0.84	0.84	0.82	---	---	0.82	0.82	---	0.82	0.81	0.80	---	0.79	---
2	2/24/76	0.92	0.87	---	0.83	---	0.79	---	0.77	0.85	---	0.74	0.77	0.77	0.71	0.74	0.74
3	3/24/76	0.66	0.64	0.55	0.60	0.64	0.57	0.56	0.54	0.53	0.54	0.54	0.55	0.62	0.51	0.47	0.52
4	4/21/76	0.30	0.43	0.49	0.38	0.57	0.49	0.51	0.51	0.67	0.85	0.52	0.71	0.54	0.55	0.50	0.58
5	5/19/76	0.47	0.53	0.66	0.69	0.80	0.81	0.87	0.92	1.06	1.18	0.95	1.07	1.03	0.96	1.17	1.13
6	6/22/76	0.81	0.84	0.84	0.88	0.77	0.71	0.72	0.68	0.85	0.98	0.68	0.67	0.67	0.68	0.67	0.68
7	7/21/76	0.70	0.81	0.92	0.99	1.07	1.09	---	1.20	1.34	1.64	1.24	1.27	1.31	1.32	1.38	1.46
8	8/17/76	0.91	0.98	1.11	1.13	1.15	1.14	1.21	1.21	1.31	1.35	1.05	1.17	1.13	1.27	1.27	1.31
9	9/15/76	0.74	0.74	0.95	1.03	1.01	1.14	1.10	1.33	1.55	1.51	1.14	1.40	1.18	1.20	1.13	1.22
10	10/19/76	1.24	1.27	1.37	1.34	1.44	1.38	---	1.40	1.62	---	1.46	---	---	1.73	---	---
11	11/16/76	1.30	1.51	1.27	1.38	1.43	1.37	1.42	1.39	1.46	1.45	1.41	1.45	1.38	1.52	1.41	1.51
12	12/15/76	1.49	1.62	1.56	1.59	1.71	1.65	1.61	1.67	1.66	1.74	1.82	1.45	1.69	1.43	1.68	1.53
13	1/13/77	1.29	---	---	1.37	---	---	---	---	1.48	---	---	1.51	1.44	---	1.42	1.47
14	2/10/77	2.19	2.23	2.20	2.16	---	2.16	---	2.26	2.25	2.40	2.12	2.24	2.09	2.02	2.19	---
15	3/28/77	1.03	0.98	0.92	0.85	0.79	0.75	0.74	0.70	0.66	0.62	0.69	0.65	0.65	0.61	0.63	0.63
16	4/26/77	0.22	0.18	0.26	0.28	0.35	0.40	0.37	0.40	0.44	0.46	0.39	0.40	0.42	0.40	0.40	0.47
17	5/25/77	0.30	0.30	0.33	0.38	0.41	0.30	0.30	0.34	0.72	0.72	0.25	0.34	0.21	0.33	0.21	0.32
18	6/23/77	0.01	0.08	0.03	0.00	0.03	0.06	0.04	0.04	0.13	0.13	0.04	0.11	0.13	0.12	0.14	0.15
19	7/21/77	0.51	0.51	0.73	0.72	0.80	0.80	0.82	0.90	1.04	1.35	0.82	0.94	0.81	0.81	0.84	0.87
20	8/23/77	0.57	0.62	0.78	0.84	0.84	0.93	0.97	0.99	1.24	1.64	1.01	1.36	1.11	1.07	1.05	1.11
21	9/20/77	0.90	0.90	1.03	1.09	1.12	1.15	1.21	1.23	1.41	1.84	1.19	1.38	1.21	1.29	1.19	1.53
22	10/20/77	0.35	0.47	0.47	0.52	0.55	0.56	0.61	0.66	0.57	0.47	0.68	0.67	0.73	0.67	0.69	0.69
23	11/17/77	0.84	0.84	0.92	0.81	0.78	0.97	0.98	0.92	0.98	0.96	0.86	0.81	0.77	0.79	0.77	0.78
24	12/19/77	0.89	0.87	0.86	0.86	0.80	0.89	0.88	0.83	0.78	0.81	0.85	0.89	0.89	0.78	0.73	0.83
25	1/19/78	0.73	0.72	---	0.68	---	0.64	---	0.62	0.67	0.66	0.61	0.65	0.61	---	0.55	0.52
26	2/15/78	0.53	0.56	---	0.59	---	0.58	---	0.58	0.63	0.65	0.55	0.64	0.66	---	0.55	0.55
27	3/16/78	0.60	0.59	---	3.35	0.65	---	---	0.63	0.62	0.78	---	0.76	0.62	---	0.54	0.55
28	4/17/78	0.09	0.18	---	0.26	---	0.30	---	0.30	0.35	0.41	0.28	0.33	0.47	---	0.28	0.30
29	5/16/78	0.20	0.27	---	0.34	---	0.36	---	0.38	0.49	0.56	0.25	0.72	0.35	---	0.33	0.51
30	6/13/78	1.04	1.01	---	1.09	---	1.03	---	0.97	1.02	1.03	0.92	0.91	0.93	---	0.76	0.82

Table AII - 4.

TOTAL PO4: DEPTH WEIGHTED MEAN AT STATION:

CRUISE	DATE	1	1-1	1-2	2	2-1	2-2	2-3	2-4	3	3-1	3-2	4	5	5-1	6	7
1	1/13/76	1.81	---	---	1.43	---	---	---	---	1.82	---	---	1.28	1.17	---	1.13	---
2	2/24/76	1.36	---	---	1.72	---	---	---	---	1.59	---	---	2.21	2.02	---	2.78	1.85
3	3/24/76	0.79	---	---	0.75	---	---	---	---	0.86	---	---	0.85	0.87	---	0.88	1.37
4	4/21/76	0.60	---	---	0.82	---	---	---	---	1.37	---	---	1.64	1.15	---	1.04	1.50
5	5/19/76	1.53	---	---	1.69	---	---	---	---	2.64	---	---	2.15	2.15	---	3.12	2.80
6	6/22/76	1.95	---	---	2.21	---	---	---	---	3.24	---	---	2.28	3.06	---	2.25	2.46
7	7/21/76	4.84	---	---	6.55	---	---	---	---	4.16	---	---	4.58	3.41	---	3.60	8.06
8	8/17/76	6.53	---	---	5.30	---	---	---	---	9.93	---	---	6.38	4.30	---	6.47	10.19
9	9/15/76	2.38	---	---	3.30	---	---	---	---	3.23	---	---	4.27	4.36	---	4.21	3.40
10	10/19/76	2.25	---	---	2.25	---	---	---	---	2.55	---	---	2.55	2.91	---	2.92	3.06
11	11/16/76	3.36	---	---	3.03	---	---	---	---	2.73	---	---	3.34	3.04	---	2.74	2.95
12	12/15/76	2.80	---	---	2.25	---	---	---	---	2.37	---	---	2.36	2.50	---	3.04	4.08
13	1/13/77	3.41	---	---	3.32	---	---	---	---	3.26	---	---	3.37	2.90	---	2.94	2.92
14	2/10/77	1.92	---	---	3.20	---	---	---	---	3.46	---	---	1.93	2.09	---	2.02	---
15	3/28/77	1.61	---	---	1.37	---	---	---	---	1.96	---	---	1.47	1.50	---	1.94	1.66
16	4/26/77	1.19	---	---	2.01	---	---	---	---	1.72	---	---	1.40	1.32	---	1.26	1.76
17	5/25/77	1.63	---	---	1.29	---	---	---	---	3.51	---	---	1.71	1.85	---	2.83	1.78
18	6/23/77	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
19	7/21/77	2.13	---	---	2.38	---	---	---	---	---	---	---	2.52	2.79	---	2.95	3.37
20	8/23/77	1.01	---	---	1.25	---	---	---	---	2.04	---	---	2.10	2.13	---	2.00	2.14
21	9/20/77	1.36	---	---	1.44	---	---	---	---	2.26	---	---	2.10	1.79	---	2.97	4.34
22	10/20/77	1.73	---	---	1.42	---	---	---	---	1.76	---	---	1.59	1.61	---	2.63	2.29
23	11/17/77	2.06	---	---	1.67	---	---	---	---	1.75	---	---	2.02	2.23	---	1.82	1.50
24	12/19/77	1.15	---	---	1.11	---	---	---	---	1.53	---	---	1.43	1.15	---	1.76	1.42
25	1/19/78	1.60	---	---	1.29	---	---	---	---	1.46	---	---	1.16	1.17	---	0.75	1.34
26	2/15/78	1.78	---	---	1.51	---	---	---	---	1.62	---	---	1.51	1.46	---	1.81	1.39
27	3/16/78	1.59	---	---	5.91	---	---	---	---	2.03	---	---	3.21	2.65	---	1.76	1.50
28	4/17/78	0.72	---	---	0.83	---	---	---	---	1.05	---	---	1.50	1.06	---	1.49	1.13
29	5/16/78	2.07	---	---	1.30	---	---	---	---	2.00	---	---	1.77	1.54	---	1.73	2.52
30	6/13/78	1.38	---	---	1.52	---	---	---	---	1.68	---	---	1.76	1.95	---	1.72	1.89

Table AII - 5.

NITRATE: DEPTH WEIGHTED MEAN AT STATION:

CRUISE	DATE	1	1-1	1-2	2	2-1	2-2	2-3	2-4	3	3-1	3-2	4	5	5-1	6	7
1	1/13/76	8.55	8.80	9.55	9.86	10.23	---	---	10.80	10.96	---	10.92	11.82	11.17	---	11.17	---
2	2/24/76	8.04	9.19	---	10.55	---	10.58	---	11.35	11.08	---	11.64	12.78	11.63	11.81	11.74	11.49
3	3/24/76	4.26	5.26	7.11	6.57	7.04	7.32	7.71	7.92	8.06	7.75	7.95	9.35	8.25	8.23	8.54	8.60
4	4/21/76	0.43	0.51	1.13	1.13	1.76	1.37	1.39	1.28	2.53	4.45	1.47	1.79	1.21	1.13	0.91	1.43
5	5/19/76	1.01	1.56	3.11	3.48	4.64	4.77	5.24	5.62	5.93	7.39	5.94	6.47	6.56	6.69	6.95	7.46
6	6/22/76	4.79	4.33	3.96	3.85	3.02	2.58	1.93	1.57	3.34	4.31	1.18	0.74	0.49	0.33	0.71	0.42
7	7/21/76	1.55	1.65	1.76	1.84	1.87	1.99	---	1.78	2.10	2.57	1.65	1.47	1.36	1.21	0.89	0.66
8	8/17/76	3.56	3.81	4.14	4.29	4.45	4.55	4.51	4.60	4.95	5.34	3.71	4.06	3.87	3.88	3.22	2.99
9	9/15/76	1.58	1.73	3.03	3.72	3.96	4.09	4.29	4.62	6.99	5.90	4.60	4.56	4.52	4.27	3.55	3.40
10	10/19/76	9.88	9.57	9.06	8.82	8.55	8.39	---	7.68	8.13	---	7.15	---	---	6.66	---	---
11	11/16/76	10.08	10.43	10.51	11.07	11.65	11.61	11.82	11.61	11.34	11.43	11.76	11.56	11.90	12.22	12.14	12.04
12	12/15/76	9.25	9.54	10.16	10.17	9.94	10.10	10.26	10.45	10.19	11.05	10.37	10.11	10.55	10.80	10.54	10.83
13	1/13/77	9.12	---	---	9.28	---	---	---	---	9.75	---	---	10.08	9.55	---	9.90	10.19
14	2/10/77	13.20	13.06	12.90	13.02	---	12.53	---	13.00	13.23	13.34	12.82	13.10	12.91	12.76	13.11	---
15	3/28/77	3.62	3.64	3.69	3.68	3.70	3.82	3.74	3.71	3.67	3.70	3.68	4.51	4.07	3.67	3.74	3.58
16	4/26/77	0.47	1.41	1.62	2.09	2.42	2.52	2.64	2.70	2.87	2.97	2.51	3.55	3.18	2.41	2.26	2.42
17	5/25/77	2.39	2.31	2.59	2.78	2.42	2.51	2.37	1.84	3.81	4.23	1.40	1.73	0.74	0.84	0.59	0.97
18	6/23/77	0.80	1.27	1.65	2.33	2.66	2.93	2.80	2.80	3.68	4.27	2.94	2.51	2.38	2.45	2.01	2.08
19	7/21/77	1.96	1.73	2.03	2.19	2.42	2.34	2.55	2.31	2.56	3.07	2.20	1.17	1.32	1.33	0.96	0.64
20	8/23/77	3.03	2.84	2.87	3.01	2.94	2.99	3.03	3.03	3.41	4.49	2.68	3.01	2.56	2.18	2.01	1.69
21	9/20/77	3.09	3.12	3.36	3.55	3.60	3.63	3.67	3.66	4.45	5.87	3.44	3.05	3.26	2.84	2.94	2.40
22	10/20/77	0.57	2.13	2.68	3.43	3.95	4.11	4.57	5.26	4.19	2.92	5.51	5.79	5.57	5.86	5.84	5.17
23	11/17/77	3.93	3.91	3.74	4.26	4.46	4.23	4.40	4.47	4.60	4.71	4.86	5.46	5.23	5.18	5.22	5.36
24	12/19/77	7.68	8.17	9.05	9.48	9.57	8.77	8.95	9.77	9.00	8.81	9.35	9.84	9.18	9.72	9.87	10.04
25	1/19/78	11.49	11.83	---	11.95	---	11.99	---	11.99	12.63	11.82	12.48	13.79	12.61	---	12.87	12.86
26	2/15/78	8.55	8.66	---	9.28	---	9.13	---	9.80	9.38	9.63	9.34	10.15	10.06	---	9.95	10.52
27	3/16/78	7.75	7.66	---	8.38	8.34	---	---	8.31	8.49	8.87	---	11.69	8.35	---	7.91	8.01
28	4/17/78	0.46	0.91	---	1.87	---	2.68	---	3.01	3.13	3.24	3.52	3.99	4.23	---	4.19	4.24
29	5/16/78	0.37	0.92	---	1.70	---	1.89	---	2.21	2.76	3.08	1.23	3.51	1.69	---	1.02	1.42
30	6/13/78	3.17	3.48	---	4.13	---	4.49	---	4.88	4.88	4.60	5.07	4.93	5.40	---	5.49	5.43

Table AII - 6.

NITRITE: DEPTH WEIGHTED MEAN AT STATION:

CRUISE	DATE	1	1-1	1-2	2	2-1	2-2	2-3	2-4	3	3-1	3-2	4	5	5-1	6	7
1	1/13/76	0.21	0.22	0.23	0.24	0.23	---	---	0.25	0.25	---	0.25	0.27	0.25	---	0.25	---
2	2/24/76	0.12	0.12	---	0.15	---	0.15	---	0.16	0.17	---	0.17	0.27	0.17	0.17	0.17	0.18
3	3/24/76	0.11	0.14	0.15	0.15	0.15	0.15	0.16	0.17	0.16	0.15	0.16	0.22	0.17	0.18	0.20	0.20
4	4/21/76	0.07	0.24	0.11	0.14	0.16	0.16	0.17	0.18	0.23	0.28	0.19	0.23	0.19	0.19	0.19	0.23
5	5/19/76	0.04	0.11	0.20	0.23	0.31	0.31	0.36	0.40	0.44	0.49	0.44	0.49	0.48	0.47	0.55	0.57
6	6/22/76	0.23	0.42	0.23	0.24	0.22	0.21	0.21	0.15	0.30	0.37	0.13	0.11	0.10	0.06	0.07	0.07
7	7/21/76	0.18	0.20	0.20	0.25	0.23	0.24	---	0.24	0.28	0.32	0.26	0.21	0.22	0.18	0.18	0.14
8	8/17/76	0.34	0.37	0.41	0.44	0.46	0.48	0.47	0.49	0.51	0.53	0.48	0.48	0.47	0.47	0.46	0.44
9	9/15/76	0.13	0.19	0.28	0.27	0.36	0.37	0.38	0.42	0.48	0.55	0.42	0.41	0.41	0.51	0.41	0.41
10	10/19/76	0.35	0.39	0.45	0.49	0.52	0.52	---	0.58	0.62	---	0.70	---	---	0.57	---	---
11	11/16/76	0.19	0.19	0.32	0.34	0.35	0.33	0.36	0.39	0.37	0.39	0.43	0.37	0.45	0.47	0.47	0.48
12	12/15/76	0.20	0.25	0.30	0.31	0.28	0.26	0.29	0.32	0.34	0.39	0.32	0.34	0.32	0.36	0.39	0.40
13	1/13/77	0.13	---	---	0.18	---	---	---	---	0.28	---	---	0.28	0.26	---	0.31	0.34
14	2/10/77	0.14	0.15	0.17	0.18	---	0.21	---	0.21	0.24	0.27	0.22	0.23	0.23	0.23	0.26	---
15	3/28/77	0.27	0.30	0.31	0.32	0.33	0.29	0.32	0.33	0.35	0.37	0.33	0.30	0.39	0.35	0.39	0.37
16	4/26/77	0.14	0.15	0.18	0.21	0.21	0.23	0.23	0.24	0.23	0.22	0.25	0.27	0.27	0.27	0.27	0.29
17	5/25/77	0.01	0.01	0.04	0.09	0.10	0.06	0.07	0.12	0.24	0.25	0.10	0.15	0.04	0.08	0.03	0.14
18	6/23/77	0.21	0.22	0.24	0.10	0.18	0.25	0.26	0.26	0.31	0.34	0.26	0.25	0.26	0.27	0.33	0.33
19	7/21/77	0.14	0.16	0.22	0.24	0.27	0.28	0.28	0.27	0.33	0.41	0.27	0.21	0.21	0.20	0.17	0.15
20	8/23/77	0.26	0.30	0.32	0.36	0.38	0.39	0.38	0.39	0.45	0.62	0.38	0.42	0.39	0.36	0.35	0.32
21	9/20/77	0.42	0.44	0.46	0.49	0.51	0.52	0.53	0.53	0.64	0.81	0.52	0.49	0.50	0.49	0.46	0.50
22	10/20/77	0.15	0.20	0.29	0.36	0.43	0.45	0.48	0.53	0.48	0.37	0.59	0.54	0.71	0.73	0.71	0.79
23	11/17/77	0.41	0.37	0.40	0.41	0.42	0.43	0.44	0.44	0.43	0.41	0.45	0.45	0.46	0.46	0.46	0.47
24	12/19/77	0.22	0.24	0.24	0.24	0.24	0.24	0.23	0.25	0.22	0.22	0.24	0.23	0.25	0.26	0.26	0.25
25	1/19/78	0.16	0.15	---	0.16	---	0.17	---	0.17	0.19	0.18	0.18	0.18	0.18	---	0.19	0.20
26	2/15/78	0.43	0.46	---	0.46	---	0.49	---	0.47	0.44	0.46	0.48	0.51	0.56	---	0.49	0.52
27	3/16/78	0.43	0.43	---	0.46	0.48	---	---	0.44	0.46	0.51	---	0.54	0.50	---	0.46	0.48
28	4/17/78	0.16	0.21	---	0.30	---	0.34	---	0.46	0.35	0.36	0.44	0.46	0.52	---	0.53	0.58
29	5/16/78	0.22	0.30	---	0.42	---	0.46	---	0.47	0.52	0.59	0.37	0.57	0.45	---	0.46	0.45
30	6/13/78	0.20	0.25	---	0.42	---	0.47	---	0.55	0.54	0.53	0.61	0.62	0.64	---	0.69	0.69

Table AII - 7.

AMMONIA: DEPTH WEIGHTED MEAN AT STATION:

CRUISE	DATE	1	1-1	1-2	2	2-1	2-2	2-3	2-4	3	3-1	3-2	4	5	5-1	6	7
1	1/13/76	0.57	---	---	1.90	---	---	---	---	4.18	---	---	4.41	3.12	---	3.12	---
2	2/24/76	0.02	---	---	1.27	---	---	---	---	2.17	---	---	3.81	3.08	---	2.69	2.72
3	3/24/76	0.36	---	---	0.58	---	---	---	---	1.08	---	---	1.61	1.20	---	1.13	1.70
4	4/21/76	0.77	---	---	0.62	---	---	---	---	2.58	---	---	0.87	0.52	---	0.41	0.77
5	5/19/76	0.22	---	---	1.23	---	---	---	---	5.42	---	---	5.14	4.98	---	5.17	4.22
6	6/22/76	0.28	0.29	---	0.15	---	---	---	---	0.24	---	---	0.17	0.09	---	0.33	0.18
7	7/21/76	1.14	1.70	2.37	2.66	3.10	3.07	---	3.29	3.69	4.67	3.19	2.88	2.70	2.58	2.36	2.36
8	8/17/76	0.36	---	---	0.82	---	---	---	---	1.00	---	---	0.83	0.70	---	0.47	0.47
9	9/15/76	1.41	1.14	2.04	2.05	1.99	1.84	2.39	1.88	2.76	4.29	1.95	2.74	3.03	1.12	0.82	1.71
10	10/19/76	1.81	2.55	3.38	3.75	4.16	5.03	---	5.12	7.64	9.47	6.51	6.86	7.39	6.97	7.71	8.52
11	11/16/76	1.02	1.23	1.88	2.45	3.21	3.10	3.26	3.78	4.59	5.49	3.93	4.07	4.37	4.21	4.35	4.78
12	12/15/76	1.64	1.91	2.66	2.78	3.28	3.53	3.82	4.14	5.06	8.23	4.29	4.89	4.63	4.99	5.47	5.29
13	1/13/77	1.87	---	---	3.23	---	---	---	---	7.46	---	---	7.77	6.31	---	8.15	9.05
14	2/10/77	2.32	2.90	3.69	3.96	---	4.82	---	6.21	7.53	11.23	4.97	5.37	5.78	5.48	6.82	---
15	3/28/77	1.79	2.45	3.10	4.18	4.30	4.56	4.99	5.12	4.83	4.80	5.21	5.17	6.01	5.41	5.69	5.95
16	4/26/77	1.05	1.19	1.81	2.21	2.50	2.57	2.71	3.20	3.40	3.84	2.70	3.21	2.68	2.95	2.70	3.87
17	5/25/77	1.18	1.26	1.82	1.78	2.07	1.84	2.24	2.17	4.64	5.33	1.40	2.17	1.29	1.12	0.88	1.88
18	6/23/77	1.61	2.10	2.91	3.37	3.58	3.71	3.79	3.49	5.32	7.14	3.18	3.52	2.57	2.54	2.23	2.58
19	7/21/77	2.91	3.66	3.96	4.45	4.10	4.47	3.52	3.07	2.98	3.96	2.77	1.18	1.37	1.40	1.34	1.40
20	8/23/77	1.62	1.81	2.61	2.77	2.99	3.03	3.21	3.02	4.27	7.07	2.84	4.36	2.99	2.03	1.87	1.92
21	9/20/77	0.36	---	---	0.69	---	---	---	---	2.76	---	---	1.32	0.98	---	0.96	1.62
22	10/20/77	1.24	1.39	3.71	4.62	4.81	4.82	5.05	5.93	4.59	3.80	6.91	5.09	7.64	7.51	7.22	7.35
23	11/17/77	2.16	2.70	3.77	4.32	5.00	5.16	5.52	6.11	6.11	5.37	5.96	6.27	6.10	6.05	5.99	6.22
24	12/19/77	1.27	1.84	2.99	3.34	3.82	3.97	4.17	4.57	4.49	4.19	4.72	5.31	5.13	5.09	5.20	5.28
25	1/19/78	0.01	---	---	0.47	---	---	---	---	2.19	---	---	1.98	2.76	---	2.33	2.65
26	2/15/78	0.22	---	---	1.04	---	---	---	---	2.27	---	---	2.83	2.44	---	3.49	2.72
27	3/16/78	0.18	---	---	0.95	---	---	---	---	3.14	---	---	3.16	2.20	---	1.71	1.87
28	4/17/78	0.95	1.33	---	2.30	---	3.20	---	3.63	3.35	2.79	3.67	3.98	4.87	---	3.57	3.67
29	5/16/78	3.13	4.24	---	3.54	---	4.04	---	4.27	5.24	5.92	2.33	3.80	2.60	---	2.40	3.34
30	6/13/78	2.91	3.37	---	4.87	---	5.50	---	5.47	6.21	6.33	5.05	4.94	5.25	---	3.68	4.19

Table AII - 8.

SILICATE: DEPTH WEIGHTED MEAN AT STATION:

CRUISE	DATE	1	1-1	1-2	2	2-1	2-2	2-3	2-4	3	3-1	3-2	4	5	5-1	6	7
1	1/13/76	15.9	21.6	31.1	36.3	41.0	---	---	49.3	55.7	---	50.5	57.0	56.2	---	56.3	---
2	2/24/76	18.0	28.0	---	41.7	---	47.4	---	56.8	55.9	---	55.9	66.9	58.5	59.6	59.3	64.8
3	3/24/76	8.91	17.0	35.0	29.8	35.5	37.7	39.8	42.0	49.8	50.0	43.0	54.4	45.9	46.6	48.5	49.7
4	4/21/76	3.20	3.33	7.34	8.52	10.8	11.7	12.8	14.3	23.5	31.5	14.6	17.0	15.9	15.9	17.3	19.3
5	5/19/76	2.09	3.20	5.82	7.15	10.3	11.1	12.7	14.2	25.1	40.3	15.1	18.5	18.6	17.6	20.5	21.6
6	6/22/76	5.74	5.30	5.16	4.39	3.74	3.57	3.13	2.84	4.82	6.42	2.61	2.57	2.40	2.49	2.45	2.85
7	7/21/76	5.87	5.89	5.84	5.85	5.94	6.01	---	6.16	7.50	9.55	6.15	6.47	6.68	6.71	7.18	7.26
8	8/17/76	8.48	9.12	10.0	10.7	11.5	11.9	12.3	13.1	16.2	19.4	12.1	12.1.	12.2	11.9	12.2	13.0
9	9/15/76	6.40	6.77	7.56	7.86	8.14	8.18	8.48	8.96	10.4	12.2	8.85	12.7	9.02	9.10	9.28	9.90
10	10/19/76	12.7	12.8	13.1	13.3	13.4	13.5	---	13.9	16.5	---	14.7	---	---	15.4	---	---
11	11/16/76	13.5	15.3	17.8	20.1	27.1	23.5	23.9	26.1	29.2	34.7	26.9	28.7	28.2	28.9	30.0	40.0
12	12/15/76	14.5	12.3	14.7	16.0	17.7	19.0	23.4	22.1	29.9	26.5	21.5	23.6	23.4	24.7	24.4	25.5
13	1/13/77	10.9	---	---	13.5	---	---	---	---	24.0	---	---	21.0	19.2	---	24.8	26.5
14	2/10/77	17.6	14.8	20.0	19.2	---	19.5	---	22.6	33.1	36.5	21.7	24.7	24.9	23.6	30.4	---
15	3/28/77	17.0	23.9	34.6	39.4	48.7	51.8	53.4	57.8	63.8	66.5	58.7	64.7	65.5	63.0	63.5	65.4
16	4/26/77	4.80	8.47	14.1	18.6	23.0	24.6	25.4	32.2	32.7	30.3	24.2	25.8	36.8	29.9	27.4	32.2
17	5/25/77	4.56	5.26	6.38	5.57	5.75	5.91	5.15	4.89	13.1	14.7	3.86	8.96	3.67	3.59	3.18	3.97
18	6/23/77	4.75	4.77	4.02	4.59	4.71	5.14	5.64	6.00	9.06	13.5	4.74	8.86	5.87	5.85	6.93	7.80
19	7/21/77	3.74	3.52	3.93	4.12	4.43	4.37	4.99	4.90	5.94	7.98	4.54	7.56	5.28	5.14	5.43	5.54
20	8/23/77	4.66	4.93	5.60	5.32	6.67	7.38	6.58	8.20	7.59	10.0	6.88	12.5	8.13	8.08	9.27	10.3
21	9/20/77	10.7	7.03	11.7	7.58	7.21	7.75	7.28	7.66	8.05	9.77	6.77	10.6	8.11	7.53	10.3	10.2
22	10/20/77	12.8	17.8	26.4	30.3	36.3	38.1	39.3	43.5	49.4	44.0	43.4	57.1	47.2	47.8	52.6	59.2
23	11/17/77	13.3	17.0	23.2	27.5	32.7	34.6	37.1	42.7	47.6	45.3	42.5	46.5	50.0	49.2	50.9	50.9
24	12/19/77	14.9	18.3	28.7	31.0	36.8	38.7	41.3	46.2	53.8	50.9	46.8	50.4	53.4	53.4	56.0	59.7
25	1/19/78	18.7	23.0	---	36.6	---	46.3	---	53.9	59.0	54.9	56.2	63.8	65.4	---	71.2	54.0
26	2/15/78	16.3	19.1	---	31.8	---	39.1	---	40.4	42.9	48.5	41.2	47.8	48.8	---	50.8	54.5
27	3/16/78	14.2	16.0	---	24.1	25.8	---	---	31.1	34.9	37.1	---	38.6	34.2	---	36.6	35.6
28	4/17/78	3.95	8.22	---	18.7	---	27.9	---	36.1	38.4	41.9	37.0	41.6	42.6	---	45.2	47.2
29	5/16/78	7.88	8.66	---	10.1	---	11.6	---	16.0	24.0	28.1	7.70	24.0	11.3	---	10.9	13.1
30	6/13/78	9.83	14.2	---	17.6	---	22.4	---	29.0	34.9	40.9	28.0	33.1	31.3	---	31.9	33.3

Table AII - 9.

NO3/PO4: DEPTH WEIGHTED MEAN AT STATION:

CRUISE	DATE	1	1-1	1-2	2	2-1	2-2	2-3	2-4	3	3-1	3-2	4	5	5-1	6	7
1	1/13/76	10.44	10.59	11.37	11.73	12.53	---	---	13.20	13.35	---	13.25	14.63	13.96	---	14.18	---
2	2/24/76	8.77	10.52	---	12.78	---	13.46	---	14.69	13.09	---	15.66	16.69	15.16	16.65	15.90	15.52
3	3/24/76	6.47	8.17	13.01	10.87	10.93	12.75	13.69	14.79	15.21	14.34	14.78	17.14	13.21	16.13	18.03	16.43
4	4/21/76	1.46	1.19	2.30	3.00	3.08	2.79	2.74	2.52	3.81	5.24	2.83	2.53	2.25	2.04	1.83	2.49
5	5/19/76	2.14	2.93	4.75	5.04	5.80	5.86	6.02	6.11	5.61	6.29	6.23	6.07	6.37	6.95	5.93	6.60
6	6/22/76	5.91	5.17	4.72	4.38	3.91	3.66	2.68	2.31	3.91	4.39	1.73	1.12	0.73	0.48	1.05	0.61
7	7/21/76	2.21	2.03	1.92	1.86	1.75	1.83	---	1.48	1.56	1.56	1.32	1.16	1.03	0.92	0.64	0.45
8	8/17/76	3.92	3.89	3.72	3.81	3.89	3.99	3.73	3.79	3.79	3.94	3.54	3.46	3.41	3.05	2.54	2.28
9	9/15/76	2.15	2.34	3.17	3.62	3.94	3.57	3.90	3.47	4.51	3.91	4.02	3.26	3.83	3.57	3.13	2.77
10	10/19/76	8.00	7.54	6.63	6.57	5.94	6.06	---	5.48	5.01	---	---	---	---	---	---	---1
11	11/16/76	7.75	6.93	8.25	8.03	8.15	8.46	8.35	8.35	7.77	7.90	8.32	7.96	8.62	8.05	8.58	7.97
12	12/15/76	6.22	5.87	6.50	6.38	5.83	6.11	6.38	6.24	6.15	6.34	5.68	6.97	6.25	7.57	6.27	7.10
13	1/13/77	7.04	---	---	6.78	---	---	---	---	6.60	---	---	6.66	6.62	---	6.95	6.95
14	2/10/77	6.03	5.87	5.87	6.04	---	5.81	---	5.75	5.87	5.57	6.05	5.85	6.19	6.31	5.98	---
15	3/28/77	3.51	3.72	4.02	4.31	4.68	5.07	5.07	5.33	5.53	5.94	5.33	6.98	6.24	6.06	5.98	5.70
16	4/26/77	2.16	7.66	6.32	7.33	6.93	6.28	7.17	6.79	6.49	6.39	6.49	8.85	7.65	6.08	5.68	5.11
17	5/25/77	7.97	7.66	7.83	7.34	5.88	8.37	7.80	5.41	5.27	5.84	5.68	5.10	3.53	2.52	2.78	3.01
18	6/23/77	112.62	15.14	65.76	466.35	82.26	52.08	73.07	67.39	28.01	32.44	65.79	23.50	18.03	19.67	14.83	13.48
19	7/21/77	3.86	3.41	2.79	3.06	3.03	2.93	3.12	2.57	2.47	2.27	2.69	1.24	1.62	1.64	1.14	0.73
20	8/23/77	5.33	4.61	3.68	3.60	3.48	3.23	3.11	3.06	2.76	2.73	2.66	2.21	2.30	2.03	1.91	1.52
21	9/20/77	3.45	3.46	3.26	3.26	3.21	3.15	3.05	2.98	3.14	3.19	2.89	2.21	2.70	2.21	2.47	1.56
22	10/20/77	1.64	4.58	5.69	6.55	7.18	7.40	7.50	7.95	7.34	6.16	8.09	8.68	7.66	8.74	8.47	7.47
23	11/17/77	4.67	4.67	4.08	5.28	5.72	4.35	4.51	4.85	4.70	4.89	5.64	6.72	6.77	6.55	6.80	6.88
24	12/19/77	8.67	9.37	10.57	11.01	11.98	9.84	10.22	11.74	11.48	10.89	10.96	11.01	10.30	12.50	13.50	12.02
25	1/19/78	15.72	16.43	---	17.49	---	18.75	---	19.24	18.81	17.95	20.41	21.36	20.69	---	23.57	24.64
26	2/15/78	16.01	15.47	---	15.75	---	15.82	---	16.97	14.94	14.89	16.86	15.97	15.26	---	18.13	19.29
27	3/16/78	12.90	13.02	---	25.05	12.89	---	---	13.13	13.68	11.31	---	15.44	13.44	---	14.68	14.59
28	4/17/78	5.27	5.18	---	7.18	---	8.84	---	9.91	8.91	7.85	12.77	12.17	9.04	---	14.90	14.11
29	5/16/78	1.85	3.39	---	4.98	---	5.22	---	5.80	5.63	5.47	4.86	4.85	4.77	---	3.08	2.79
30	6/13/78	3.05	3.46	---	3.80	---	4.38	---	5.03	4.81	4.47	5.50	5.45	5.81	---	7.24	6.62

Table AII - 10.

SUSPENDED LOAD: DEPTH WEIGHTED MEAN AT STATION:

CRUISE	DATE	1	1-1	1-2	2	2-1	2-2	2-3	2-4	3	3-1	3-2	4	5	5-1	6	7
1	1/13/76	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
2	2/24/76	3.04	1.35	---	4.51	---	5.58	---	5.58	6.72	---	---	4.38	6.98	7.44	7.81	9.27
3	3/24/76	2.30	2.75	4.82	4.58	5.02	6.35	---	---	16.41	---	---	5.65	6.80	7.36	9.98	16.26
4	4/21/76	3.39	3.27	---	6.20	---	8.41	---	7.74	6.09	6.84	6.32	12.62	8.07	---	3.62	8.26
5	5/19/76	10.38	6.57	7.11	9.70	12.17	5.35	9.14	9.25	23.47	15.37	17.97	18.87	16.14	17.75	47.55	24.73
6	6/22/76	4.70	3.86	6.94	5.69	6.50	6.00	7.69	9.42	9.75	9.77	10.12	10.68	10.76	10.14	15.67	12.85
7	7/21/76	2.16	2.25	5.35	8.26	4.79	5.89	---	6.90	5.99	5.26	12.90	9.86	8.90	5.52	7.18	5.75
8	8/17/76	1.36	6.04	0.02	1.50	0.56	2.28	1.48	0.81	4.88	2.19	2.13	7.32	---	---	2.53	7.17
9	9/15/76	0.61	1.22	---	1.39	---	---	0.94	---	1.45	5.85	1.35	0.72	1.28	---	0.44	1.17
10	10/19/76	1.42	1.30	---	4.84	---	---	---	6.42	5.80	1.32	8.77	6.90	14.99	25.73	25.56	19.04
11	11/16/76	1.32	1.54	---	2.27	---	---	3.07	3.51	3.61	2.81	3.19	3.24	3.77	4.24	4.23	8.02
12	12/15/76	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
13	1/13/77	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
14	2/10/77	2.00	1.66	---	1.84	---	---	---	2.11	2.95	2.69	1.72	2.73	1.67	1.95	2.44	---
15	3/28/77	2.28	1.94	---	2.79	---	2.72	3.56	7.34	4.28	3.99	5.16	3.47	6.30	4.76	10.87	6.52
16	4/26/77	4.41	3.75	---	6.50	---	7.24	8.16	10.10	11.11	12.04	10.13	7.20	8.95	9.60	10.38	13.11
17	5/25/77	1.91	2.27	---	4.85	---	6.27	7.38	8.74	10.24	11.79	8.06	11.91	9.82	8.46	14.99	13.06
18	6/23/77	1.94	2.26	---	4.07	---	5.20	5.64	6.15	8.95	10.49	4.73	12.16	9.28	8.45	8.36	13.42
19	7/21/77	2.25	2.22	---	4.64	---	5.68	6.27	5.83	7.20	11.62	8.59	10.51	8.92	7.74	13.33	12.11
20	8/23/77	1.93	1.74	---	2.53	2.71	---	4.11	3.30	4.38	4.47	3.45	5.80	3.63	3.64	4.25	4.20
21	9/20/77	2.26	1.58	---	2.93	3.14	---	4.10	3.54	4.02	6.31	4.11	5.38	5.17	16.21	70.24	42.82
22	10/20/77	3.06	2.05	---	4.14	4.50	---	4.61	4.74	7.80	6.49	5.35	3.99	5.55	4.94	6.37	12.78
23	11/17/77	1.68	1.10	1.83	2.29	2.40	---	2.60	2.20	5.76	3.45	2.38	2.93	2.51	2.95	2.83	4.34
24	12/19/77	5.06	2.47	2.86	2.42	2.71	---	2.61	2.63	3.30	3.02	2.78	1.91	3.99	27.28	6.92	9.17
25	1/19/78	7.83	5.38	---	4.77	---	4.19	---	2.82	5.69	6.11	3.03	2.98	3.23	---	3.29	5.20
26	2/15/78	4.73	2.59	---	2.45	---	1.83	---	1.26	1.94	1.86	1.23	1.86	4.40	---	1.66	1.30
27	3/16/78	5.21	3.40	---	23.83	1.74	---	---	1.86	2.64	3.98	---	4.57	2.75	---	3.59	3.42
28	4/17/78	0.79	1.03	---	1.80	---	2.37	---	2.82	2.89	2.86	3.19	2.69	2.25	---	4.68	5.24
29	5/16/78	4.40	4.09	---	3.57	---	3.80	---	7.31	16.46	18.82	7.62	22.32	28.36	---	30.06	57.38
30	6/13/78	4.68	2.81	---	2.19	---	2.95	---	3.08	4.95	9.97	3.90	12.16	5.60	---	6.32	7.07

Table AII - 11.

pH: DEPTH WEIGHTED MEAN AT STATION:

CRUISE	DATE	1	1-1	1-2	2	2-1	2-2	2-3	2-4	3	3-1	3-2	4	5	5-1	6	7
1	1/13/76	8.16	---	---	8.02	---	---	---	---	8.04	---	---	7.95	7.95	---	7.87	---
2	2/24/76	8.22	---	---	8.16	---	---	---	---	7.98	---	---	7.90	7.97	---	7.95	7.83
3	3/24/76	8.34	---	---	8.25	---	---	---	---	8.16	---	---	8.11	8.15	---	8.12	8.07
4	4/21/76	8.28	---	---	8.22	---	---	---	---	8.04	---	---	8.09	8.13	---	8.11	8.07
5	5/19/76	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
6	6/22/76	7.64	---	---	7.76	---	---	---	---	7.82	---	---	7.85	7.88	---	7.90	7.92
7	7/21/76	7.84	---	---	7.84	---	---	---	---	7.86	---	---	7.97	7.92	---	7.91	7.93
8	8/17/76	7.95	---	---	7.92	---	---	---	---	7.87	---	---	7.88	7.88	---	7.91	7.90
9	9/15/76	7.93	---	---	7.92	---	---	---	---	7.87	---	---	7.82	7.90	---	7.91	7.86
10	10/19/76	7.81	---	---	7.77	---	---	---	---	7.80	---	---	7.83	7.84	---	7.85	7.84
11	11/16/76	8.01	---	---	8.04	---	---	---	---	8.03	---	---	8.09	8.06	---	8.07	8.06
12	12/15/76	8.18	---	---	8.19	---	---	---	---	8.16	---	---	8.18	8.16	---	8.09	8.13
13	1/13/77	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
14	2/10/77	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
15	3/28/77	7.96	---	---	7.79	---	---	---	---	7.57	---	---	7.52	7.50	---	7.51	7.47
16	4/26/77	8.06	---	---	---	---	---	---	---	7.88	---	---	7.95	7.85	---	7.91	7.80
17	5/25/77	8.35	---	---	8.31	---	---	---	---	8.06	---	---	8.05	8.17	---	8.15	8.09
18	6/23/77	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
19	7/21/77	8.05	---	---	7.93	---	---	---	---	7.88	---	---	7.80	7.88	---	7.85	7.86
20	8/23/77	7.90	---	---	7.87	---	---	---	---	7.70	---	---	7.74	7.72	---	7.81	7.79
21	9/20/77	7.84	---	---	7.80	---	---	---	---	7.54	---	---	7.61	7.73	---	7.73	7.66
22	10/20/77	7.99	---	---	7.84	---	---	---	---	7.44	---	---	7.53	7.52	---	7.53	7.35
23	11/17/77	8.29	---	---	8.25	---	---	---	---	8.18	---	---	8.15	8.13	---	8.15	8.14
24	12/19/77	7.89	---	---	7.87	---	---	---	---	7.76	---	---	7.77	7.75	---	7.75	7.70
25	1/19/78	7.83	---	---	7.79	---	---	---	---	7.68	---	---	7.65	7.68	---	7.56	7.56
26	2/15/78	7.88	---	---	7.83	---	---	---	---	7.79	---	---	7.66	7.66	---	7.62	7.64
27	3/16/78	8.05	---	---	8.04	---	---	---	---	7.95	---	---	7.97	8.03	---	8.05	8.08
28	4/17/78	5.39	---	---	8.10	---	---	---	---	7.98	---	---	7.95	7.91	---	7.83	7.78
29	5/16/78	8.07	---	---	8.00	---	---	---	---	7.71	---	---	7.74	7.85	---	7.84	7.60
30	6/13/78	7.75	---	---	7.68	---	---	---	---	7.41	---	---	7.48	7.56	---	7.59	7.54

Table AII - 12.

DISSOLVED OXYGEN: DEPTH WEIGHTED MEAN AT STATION:

CRUISE	DATE	1	1-1	1-2	2	2-1	2-2	2-3	2-4	3	3-1	3-2	4	5	5-1	6	7
1	1/13/76	7.41	---	---	7.76	---	---	---	---	7.93	---	---	8.15	---	---	---	---
2	2/24/76	7.54	---	---	7.20	---	---	---	---	8.55	---	---	8.68	8.53	---	8.38	8.30
3	3/24/76	7.75	---	---	8.05	---	---	---	---	8.71	---	---	8.88	8.61	---	8.62	8.53
4	4/21/76	7.73	---	---	7.22	---	---	---	---	6.73	---	---	6.74	6.94	---	6.86	6.55
5	5/19/76	6.60	---	---	6.55	---	---	---	---	6.46	---	---	6.36	6.31	---	6.25	6.21
6	6/22/76	6.25	---	---	6.08	---	---	---	---	5.85	---	---	5.78	5.74	---	5.78	5.93
7	7/21/76	5.97	5.82	---	5.48	5.40	5.32	---	5.09	5.01	4.68	5.05	5.12	5.05	5.17	5.01	5.02
8	8/17/76	5.57	---	---	5.21	---	---	---	---	5.02	---	---	5.03	4.48	---	5.30	5.43
9	9/15/76	5.91	---	---	5.62	---	---	---	---	5.44	---	---	5.64	5.72	---	5.81	5.90
10	10/19/76	5.36	---	---	5.58	---	---	---	---	5.83	---	---	---	---	---	---	---
11	11/16/76	5.86	---	---	6.31	---	---	---	---	6.70	---	---	7.16	6.93	---	7.18	7.21
12	12/15/76	7.08	---	---	7.39	---	---	---	---	7.89	---	---	8.16	8.02	---	7.35	7.99
13	1/13/77	7.46	---	---	7.83	---	---	---	---	7.91	---	---	7.93	7.79	---	7.34	7.54
14	2/10/77	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
15	3/28/77	7.82	---	---	7.92	---	---	---	---	8.40	---	---	8.24	8.25	---	7.93	8.13
16	4/26/77	7.38	---	---	6.96	---	---	---	---	7.02	---	---	6.94	7.09	---	7.03	6.79
17	5/25/77	7.16	---	---	6.46	---	---	---	---	5.50	---	---	5.69	6.20	---	6.03	5.86
18	6/23/77	6.63	---	---	6.02	---	---	---	---	5.38	---	---	5.30	5.35	---	5.24	5.34
19	7/21/77	6.41	---	---	5.80	---	---	---	---	5.18	---	---	4.94	5.10	---	5.10	5.10
20	8/23/77	5.92	---	---	5.41	---	---	---	---	5.10	---	---	5.06	5.30	---	5.55	5.70
21	9/20/77	5.55	---	---	5.17	---	---	---	---	4.94	---	---	5.02	5.17	---	5.19	5.16
22	10/20/77	6.33	---	---	5.94	---	---	---	---	6.31	---	---	6.00	6.05	---	6.30	6.15
23	11/17/77	5.80	---	---	5.94	---	---	---	---	6.41	---	---	6.30	6.39	---	6.46	6.44
24	12/19/77	7.17	---	---	7.53	---	---	---	---	7.86	---	---	7.94	8.15	---	8.10	8.28
25	1/19/78	7.58	---	---	7.97	---	---	---	---	8.54	---	---	8.28	8.47	---	8.62	8.40
26	2/15/78	7.87	---	---	7.98	---	---	---	---	8.06	---	---	7.90	7.98	---	7.95	7.90
27	3/16/78	7.74	---	---	8.06	---	---	---	---	8.34	---	---	8.69	8.31	---	8.45	8.54
28	4/17/78	7.51	---	---	7.45	---	---	---	---	7.47	---	---	7.64	7.37	---	7.39	7.26
29	5/16/78	6.97	---	---	6.54	---	---	---	---	6.53	---	---	6.28	6.38	---	6.12	6.49
30	6/13/78	6.64	---	---	5.84	---	---	---	---	5.14	---	---	5.15	5.23	---	5.26	5.33

Table AII - 13.

CHLOROPHYLL a: DEPTH WEIGHTED MEAN AT STATION:

CRUISE	DATE	1	1-1	1-2	2	2-1	2-2	2-3	2-4	3	3-1	3-2	4	5	5-1	6	7
1	1/13/76	0.99	---	---	0.32	---	---	---	---	0.20	---	---	0.40	0.21	---	0.15	---
2	2/24/76	0.70	---	---	0.48	---	---	---	---	0.42	---	---	0.85	0.41	---	0.62	0.62
3	3/24/76	1.03	---	---	1.84	---	---	---	---	2.31	---	---	2.03	3.05	---	3.38	3.65
4	4/21/76	0.96	---	---	2.09	---	---	---	---	3.30	---	---	6.41	7.05	---	8.57	5.00
5	5/19/76	4.87	---	---	4.43	---	---	---	---	2.28	---	---	2.48	3.19	---	4.47	2.54
6	6/22/76	0.70	---	---	3.34	---	---	---	---	7.47	---	---	6.66	7.14	---	4.51	4.48
7	7/21/76	1.94	---	---	2.83	---	---	---	---	3.83	---	---	4.21	4.45	---	5.72	5.65
8	8/17/76	1.91	---	---	1.00	---	---	---	---	2.43	---	---	2.51	3.25	---	4.92	4.13
9	9/15/76	5.82	---	---	4.70	---	---	---	---	4.16	---	---	4.94	5.33	---	6.29	5.07
10	10/19/76	0.84	---	---	0.33	---	---	---	---	0.74	---	---	0.80	1.08	---	0.82	1.14
11	11/16/76	0.83	---	---	0.64	---	---	---	---	0.38	---	---	0.80	0.56	---	0.76	1.24
12	12/15/76	0.57	---	---	0.43	---	---	---	---	0.54	---	---	0.87	0.82	---	0.91	0.67
13	1/13/77	0.57	---	---	0.47	---	---	---	---	0.36	---	---	0.44	0.59	---	0.43	0.38
14	2/10/77	0.44	---	---	0.52	---	---	---	---	0.42	---	---	0.82	1.01	---	0.93	---
15	3/28/77	0.69	---	---	0.95	---	---	---	---	0.35	---	---	0.42	0.34	---	0.65	0.45
16	4/26/77	1.70	---	---	2.90	---	---	---	---	5.35	---	---	5.63	5.15	---	8.29	6.21
17	5/25/77	0.39	---	---	1.96	---	---	---	---	3.25	---	---	3.27	5.63	---	3.64	4.04
18	6/23/77	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
19	7/21/77	0.86	---	---	0.46	---	---	---	---	2.45	---	---	3.63	3.02	---	3.13	3.59
20	8/23/77	2.38	---	---	0.67	---	---	---	---	0.65	---	---	1.25	1.63	---	1.73	1.91
21	9/20/77	1.05	---	---	0.80	---	---	---	---	1.23	---	---	2.45	2.57	---	3.54	3.94
22	10/20/77	15.83	---	---	4.37	---	---	---	---	0.98	---	---	1.13	1.22	---	1.86	1.05
23	11/17/77	1.23	---	---	0.43	---	---	---	---	0.35	---	---	0.82	1.12	---	0.61	0.97
24	12/19/77	0.28	---	---	0.39	---	---	---	---	0.26	---	---	0.24	0.31	---	0.02	0.00
25	1/19/78	1.65	---	---	1.23	---	---	---	---	0.25	---	---	0.30	0.09	---	0.23	0.96
26	2/15/78	0.73	---	---	0.10	---	---	---	---	---	---	---	---	0.22	---	0.10	0.18
27	3/16/78	0.66	---	---	0.50	---	---	---	---	0.67	---	---	0.70	1.07	---	0.60	0.59
28	4/17/78	1.01	---	---	0.41	---	---	---	---	1.04	---	---	1.01	1.71	---	0.72	1.54
29	5/16/78	0.49	---	---	0.99	---	---	---	---	0.90	---	---	3.47	2.91	---	2.81	2.39
30	6/13/78	0.64	---	---	0.62	---	---	---	---	1.53	---	---	4.29	4.38	---	5.83	4.39

Appendix III. Tables of Data Covering Great Bay Cruises #1 to #30 January, 1976 to June, 1978.

GREAT BAY ESTUARINE DATA: CRUISE #1 1/13/76

STA #	DEPTH TIME	TEMP SAL	SIGMA-t	OXYGEN % SAT	PO4 TOT PO4	NO3 NO2	SiO4 NH4	NO3/PO4 SUSP Ld	pH CHL a	CARO PHAE	ROW #
1	0.2 13:18	1.3 30.782	24.68	7.43 92.9	0.82 2.59	8.88 0.20	17.3 0.88	10.81 ---	8.11 0.40	0.83 0.65	1
	1.2 13:18	1.3 30.814	24.70	7.49 93.6	0.85 1.71	8.47 0.21	16.9 0.55	9.96 ---	8.12 0.60	1.16 0.87	2
	4.9 13:18	1.5 30.971	24.81	--- ---	0.82 ---	8.87 0.22	16.3 ---	10.87 ---	--- ---	--- ---	3
	12.8 13:18	2.0 31.374	25.11	7.33 93.7	0.81 1.82	8.18 0.20	14.9 0.55	10.13 ---	8.20 1.40	2.25 1.75	4
1-1	0.2 13:50	0.8 28.409	22.80	--- ---	0.83 ---	9.22 0.22	26.1 ---	11.09 ---	--- ---	--- ---	5
	1.2 13:50	0.8 28.369	22.77	--- ---	0.82 ---	9.43 0.23	26.0 ---	11.52 ---	--- ---	--- ---	6
	4.9 13:50	1.0 29.239	23.45	--- ---	0.82 ---	8.75 0.20	21.7 ---	10.65 ---	--- ---	--- ---	7
	14.5 13:50	1.0 30.006	24.07	--- ---	0.84 ---	8.64 0.23	19.9 ---	10.24 ---	--- ---	--- ---	8
1-2	1.2 14:10	0.4 26.841	21.55	--- ---	0.84 ---	9.54 0.21	32.0 ---	11.38 ---	--- ---	--- ---	9
	4.9 14:10	0.7 26.858	21.56	--- ---	0.84 ---	9.43 0.23	31.9 ---	7.62 ---	--- ---	--- ---	10
	14.5 14:10	0.7 27.134	21.78	--- ---	0.84 ---	9.60 0.23	30.6 ---	11.44 ---	--- ---	--- ---	11
2	0.2 14:40	0.1 25.653	20.61	7.76 90.7	0.83 1.45	9.85 0.25	36.6 2.01	11.89 ---	8.05 0.90	0.68 0.00	12
	1.2 14:40	0.0 25.674	20.63	7.73 90.2	0.84 1.38	9.96 0.24	36.6 1.87	11.93 ---	8.05 0.30	0.45 0.26	13
	4.9 14:40	0.2 25.669	20.62	--- ---	0.81 ---	9.77 0.23	36.4 ---	12.01 ---	--- ---	--- ---	14
	11.0 14:40	0.3 25.679	20.63	7.77 91.4	0.85 1.44	9.88 0.25	36.2 1.91	11.61 ---	8.01 0.30	0.60 0.40	15
2-1	0.2 15:02	-0.2 24.306	19.53	--- ---	0.83 ---	10.40 0.25	41.9 ---	12.54 ---	--- ---	--- ---	16
	1.2 15:02	-0.1 24.360	19.57	--- ---	0.80 ---	10.26 0.26	41.7 ---	12.75 ---	--- ---	--- ---	17
	4.9 15:02	0.0 24.482	19.67	--- ---	0.81 ---	10.00 0.22	41.2 ---	12.40 ---	--- ---	--- ---	18
	14.5 15:02	0.0 24.576	19.75	--- ---	0.82 ---	10.34 0.23	40.7 ---	12.56 ---	--- ---	--- ---	19
2-4	0.2 15:35	-0.9 21.846	17.56	--- ---	0.79 ---	11.20 0.25	51.4 ---	14.11 ---	--- ---	--- ---	20
	1.2 15:35	-0.8 22.228	17.87	--- ---	0.78 ---	11.06 0.23	51.1 ---	14.10 ---	--- ---	--- ---	21
	4.9 15:35	-0.8 22.486	18.07	--- ---	0.78 ---	10.75 0.27	49.0 ---	13.72 ---	--- ---	--- ---	22

GREAT BAY ESTUARINE DATA: CRUISE #1 1/13/76

STA #	DEPTH TIME	TEMP SAL	SIGMA-t	OXYGEN % SAT	PO4 TOT PO4	NO3 NO2	SiO4 NH4	NO3/PO4 SUSP Ld	pH CHL a	CARO PHAE	ROW #
	15.0	-0.9	18.19	---	0.87	10.72	48.6	12.26	---	---	23
	15:35	22.631		---	---	0.23	---	---	---	---	
3	0.2	-1.0	12.72	8.29	0.84	12.52	85.4	14.90	7.87	0.45	24
	15:50	15.842		87.9	1.64	0.27	8.84	---	0.60	0.66	
	1.2	-0.6	15.23	7.98	0.85	11.28	65.2	13.33	8.01	0.45	25
	15:50	18.953		87.4	1.52	0.26	5.66	---	0.10	0.67	
	5.0	-0.4	18.22	7.86	0.81	10.65	48.2	13.17	8.08	0.53	26
	15:50	22.673		88.8	1.97	0.25	3.02	---	0.20	0.57	
3-2	0.2	-1.1	17.60	---	0.80	10.84	51.9	13.56	---	---	27
	16:05	21.905		---	---	0.23	---	---	---	---	
	1.2	-1.0	17.47	---	0.77	10.74	52.0	13.89	---	---	28
	16:05	21.735		---	---	0.26	---	---	---	---	
	4.9	-1.0	17.56	---	0.91	10.91	51.5	11.98	---	---	29
	16:05	21.851		---	---	0.25	---	---	---	---	
	10.0	-1.0	17.90	---	0.80	10.97	49.7	13.66	---	---	30
	16:05	22.266		---	---	0.24	---	---	---	---	
4	0.2	-1.3	16.83	7.97	0.84	12.14	59.2	14.43	7.95	0.38	31
	16:30	20.946		86.8	1.28	0.30	5.86	---	0.40	0.00	
	2.5	-1.0	16.82	8.30	0.78	11.55	55.3	14.80	7.95	0.38	32
	16:30	20.931		91.2	1.28	0.24	3.22	---	0.40	0.00	
5	0.2	-1.2	16.35	---	0.77	11.28	58.0	14.70	7.99	0.41	33
	16:45	20.353		---	1.12	0.25	4.64	---	0.40	0.00	
	1.2	-1.2	16.86	---	0.82	11.22	57.9	13.71	7.98	0.38	34
	16:45	20.981		---	1.20	0.24	2.98	---	0.20	0.22	
	12.0	-1.2	17.08	---	0.79	11.12	54.5	14.12	7.92	0.38	35
	16:45	21.249		---	1.14	0.26	3.09	---	0.20	0.22	
6	0.2	-1.0	15.17	---	0.74	11.68	66.2	15.72	7.91	0.56	36
	17:20	18.884		---	1.24	0.25	3.42	---	0.20	0.29	
	1.2	-1.0	15.94	---	0.77	11.49	63.5	14.92	7.76	0.56	37
	17:20	19.835		---	1.12	0.25	3.18	---	0.20	0.29	
	4.9	-1.0	17.31	---	0.76	11.17	55.9	14.74	---	---	38
	17:20	21.537		---	---	0.25	---	---	---	---	
	14.0	-0.8	17.61	---	0.85	10.92	51.6	12.90	7.98	0.56	39
	17:20	21.905		---	1.12	0.24	3.02	---	0.10	0.53	

GREAT BAY ESTUARINE DATA: CRUISE #2 2/24/76

STA #	DEPTH TIME	TEMP SAL	SIGMA-t	OXYGEN % SAT	PO4 TOT PO4	NO3 NO2	SiO4 NH4	NO3/PO4 SUSP Ld	pH CHL a	CARO PHAE	ROW #
1	0.2 11:55	2.9 29.631	23.65	7.70 100.	0.91 1.32	8.54 0.11	19.5 0.34	9.36 0.75	8.13 0.70	0.79 0.28	1
	1.2 11:55	2.7 29.617	23.66	7.49 96.3	0.95 1.35	7.88 0.12	19.8 0.00	8.27 3.32	8.21 0.70	0.83 0.28	2
	5.0 11:55	2.7 29.643	23.68	--- ---	0.91 ---	7.88 0.12	18.7 ---	8.63 2.52	--- ---	--- ---	3
	12.2 11:55	2.6 30.376	24.27	7.56 97.4	0.91 1.38	8.21 0.11	16.4 0.00	9.05 3.74	8.24 0.70	0.60 0.14	4
1-1	0.2 12:30	2.6 25.680	20.53	--- ---	0.90 ---	8.90 0.14	30.6 ---	9.86 2.50	--- ---	--- ---	5
	1.2 12:30	2.4 25.731	20.58	--- ---	0.87 ---	8.92 0.14	30.6 ---	10.23 2.16	--- ---	--- ---	6
	5.0 12:30	--- 26.714	---	--- ---	0.86 ---	9.55 0.13	30.8 ---	11.05 2.28	--- ---	--- ---	7
	13.7 12:30	2.2 27.461	21.97	--- ---	0.88 ---	9.03 0.11	25.0 ---	10.28 0.36	--- ---	--- ---	8
2	0.2 13:00	2.3 22.295	17.85	8.09 98.0	0.86 1.50	10.44 0.14	40.5 1.36	12.16 3.18	8.16 0.60	0.86 0.24	9
	1.2 13:00	2.2 22.379	17.92	8.05 97.3	0.86 1.84	10.36 0.14	40.6 1.29	12.07 4.13	8.17 0.60	0.86 0.31	10
	5.0 13:00	2.1 21.862	17.51	--- ---	0.82 ---	10.55 0.16	41.9 ---	12.84 5.27	--- ---	--- ---	11
	12.2 13:00	2.0 21.972	17.60	6.85 82.2	0.82 1.68	10.59 0.15	41.8 1.26	12.90 4.35	8.16 0.43	0.76 0.47	12
2-2	0.2 13:36	2.5 20.428	16.35	--- ---	0.79 ---	10.85 0.15	47.9 ---	13.68 6.02	--- ---	--- ---	13
	1.2 13:36	2.0 19.835	15.90	--- ---	0.81 ---	10.90 0.15	47.3 ---	13.50 5.00	--- ---	--- ---	14
	5.0 13:36	1.9 19.834	15.90	--- ---	0.78 ---	9.80 0.16	47.8 ---	12.61 5.47	--- ---	--- ---	15
	12.9 13:36	1.8 20.108	16.13	--- ---	0.79 ---	10.90 0.15	47.2 ---	13.88 5.74	--- ---	--- ---	16
2-4	0.2 14:13	2.0 16.779	13.47	--- ---	0.76 ---	11.55 0.17	56.7 ---	15.19 6.74	--- ---	--- ---	17
	1.2 14:13	1.7 16.341	13.13	--- ---	0.72 ---	11.57 0.16	59.6 ---	15.99 6.74	--- ---	--- ---	18
	5.0 14:13	1.5 16.989	13.65	--- ---	0.78 ---	11.12 0.16	56.4 ---	14.27 2.84	--- ---	--- ---	19
	10.7 14:13	1.3 17.519	14.07	--- ---	0.79 ---	11.41 0.16	56.2 ---	14.53 6.74	--- ---	--- ---	20
3	0.2 14:34	1.5 6.066	4.96	9.37 100.	0.51 1.75	11.54 0.17	89.1 3.84	22.54 5.23	7.52 0.10	0.68 0.53	21
	1.2 14:34	1.6 12.607	10.16	8.94 100.	0.75 1.50	11.38 0.18	61.4 2.99	15.12 ---	7.85 0.30	0.90 0.61	22

GREAT BAY ESTUARINE DATA: CRUISE #2 2/24/76

STA #	DEPTH TIME	TEMP SAL	SIGMA-t	OXYGEN % SAT	PO4 TOT PO4	NO3 NO2	SiO4 NH4	NO3/PO4 SUSP Ld	pH CHL a	CARO PHAE	ROW #
	5.0 14:34	1.8 15.136	12.17	8.30 74.6	0.92 1.61	10.90 0.16	49.7 1.64	11.79 7.33	8.09 0.50	0.98 0.55	23
3-2	0.2 14:52	1.8 16.899	13.57	--- ---	0.75 ---	11.66 0.16	55.9 ---	15.56 ---	--- ---	--- ---	24
	1.2 14:52	1.7 16.456	13.22	--- ---	0.73 ---	11.82 0.17	57.2 ---	16.13 ---	--- ---	--- ---	25
	5.0 14:52	1.7 16.645	13.37	--- ---	0.78 ---	11.67 0.17	57.1 ---	14.93 ---	--- ---	--- ---	26
	6.7 14:52	1.6 17.167	13.79	--- ---	0.74 ---	11.60 0.16	55.4 ---	15.74 ---	--- ---	--- ---	27
4	0.2 15:10	2.0 16.487	13.24	8.78 101.	0.74 2.52	14.49 0.35	73.9 4.56	19.51 3.14	7.82 0.40	1.01 0.51	28
	2.4 15:10	1.8 15.079	12.12	8.61 98.1	0.78 1.98	11.47 0.21	61.5 3.24	14.63 5.34	7.96 1.20	1.84 0.69	29
5	0.2 15:24	1.8 14.583	11.73	8.73 99.1	0.73 ---	11.43 0.21	62.8 4.30	15.71 7.68	7.77 0.30	0.94 0.61	30
	1.2 15:24	1.3 12.579	10.14	8.69 96.0	0.75 2.23	11.24 0.18	63.5 3.68	14.93 ---	7.89 0.30	0.94 0.47	31
	5.0 15:24	1.1 15.102	12.15	--- ---	0.75 ---	11.94 0.17	59.9 ---	15.84 7.56	--- ---	--- ---	32
	11.0 15:24	1.3 16.370	13.16	8.38 95.0	0.79 1.83	11.55 0.17	54.0 2.48	14.55 5.98	8.05 0.50	1.05 0.55	33
5-1	0.2 15:40	1.2 14.275	11.49	--- ---	0.67 ---	12.00 0.17	62.6 ---	17.92 13.20	--- ---	--- ---	34
	1.2 15:40	1.2 14.255	11.47	--- ---	0.70 ---	11.96 0.17	63.6 ---	17.09 ---	--- ---	--- ---	35
	5.0 15:40	1.2 14.465	11.64	--- ---	0.63 ---	12.00 0.17	63.0 ---	19.12 6.10	--- ---	--- ---	36
	11.6 15:40	1.4 16.911	13.59	--- ---	0.81 ---	11.48 0.16	53.3 ---	14.18 5.87	--- ---	--- ---	37
6	0.2 16:00	1.2 14.522	11.69	8.58 95.8	0.65 1.69	10.97 0.19	65.9 2.85	16.95 6.18	7.83 0.30	1.13 0.89	38
	1.2 16:00	1.1 13.747	11.07	8.44 93.5	0.66 3.29	12.12 0.18	64.1 2.80	18.27 5.66	7.87 0.60	1.28 0.66	39
	5.0 16:00	1.1 14.508	11.68	--- ---	0.75 ---	11.87 0.17	59.6 ---	15.87 6.94	--- ---	--- ---	40
	11.6 16:00	1.2 19.227	15.44	8.32 95.9	0.77 2.49	11.54 0.16	56.1 2.60	14.96 9.71	8.02 0.67	2.25 1.39	41
7	0.2 16:20	1.2 12.039	9.71	8.58 94.2	0.57 1.83	11.21 0.17	71.1 3.07	19.81 11.92	7.63 0.53	1.40 0.96	42
	1.2 16:20	1.2 12.407	10.00	8.39 92.4	0.73 2.04	11.66 0.18	64.7 2.67	15.88 8.24	7.66 0.80	2.05 1.07	43
	5.0 16:20	1.1 16.192	13.02	8.20 92.4	0.78 1.74	11.44 0.18	63.7 2.68	14.75 9.43	7.97 0.53	1.70 1.15	44

GREAT BAY ESTUARINE DATA: CRUISE #3 3/24/76

STA #	DEPTH TIME	TEMP SAL	SIGMA-t	OXYGEN % SAT	PO4 TOT PO4	NO3 NO2	SiO4 NH4	NO3/PO4 SUSP Ld	pH CHL a	CARO PHAE	ROW #
1	0.2 11:28	4.8 29.858	23.67	7.82 106.	0.63 0.84	4.50 0.13	9.37 0.53	7.16 2.09	8.30 1.00	1.24 0.89	1
	1.2 11:28	4.0 29.885	23.76	7.67 102.	0.68 0.77	4.50 0.11	9.62 0.38	6.61 1.66	8.30 1.10	1.31 0.86	2
	4.0 11:28	4.0 29.782	23.68	--- ---	0.68 ---	4.35 0.11	9.39 ---	6.39 2.45	--- ---	1.24 ---	3
	10.0 11:28	3.9 30.305	24.11	7.79 104.	0.64 0.80	4.12 0.11	8.36 0.33	6.43 2.40	8.37 1.00	--- 1.03	4
1-1	0.2 11:59	4.7 25.793	20.46	--- ---	0.64 ---	5.60 0.13	20.5 ---	8.76 2.05	--- ---	--- ---	5
	1.2 11:59	4.4 25.855	20.54	--- ---	0.56 ---	5.49 0.13	20.2 ---	13.74 1.20	--- ---	--- ---	6
	4.0 11:59	4.2 26.311	20.91	--- ---	0.63 ---	5.56 0.17	19.4 ---	8.81 3.02	--- ---	--- ---	7
	12.0 11:59	4.0 27.429	21.82	--- ---	0.67 ---	5.03 0.12	14.8 ---	7.54 3.40	--- ---	--- ---	8
1-2	1.0 12:12	4.4 24.690	19.62	--- ---	0.62 ---	6.03 0.14	23.5 ---	9.72 6.35	--- ---	--- ---	9
	4.0 12:12	4.2 24.701	19.64	--- ---	0.63 ---	5.90 0.14	23.5 ---	9.32 4.41	--- ---	--- ---	10
	14.0 12:15	3.8 23.813	18.97	--- ---	0.50 ---	7.82 0.16	41.8 ---	15.73 4.75	--- ---	--- ---	11
2	0.2 12:34	4.4 22.057	17.54	8.02 102.	0.68 0.73	6.68 0.15	30.9 0.60	9.78 3.95	8.22 2.30	2.40 0.99	12
	1.2 12:34	4.3 22.078	17.56	8.18 104.	0.62 0.73	6.83 0.14	31.0 0.62	11.05 4.43	8.24 2.10	2.36 1.40	13
	4.0 12:34	4.2 22.134	17.61	--- ---	0.62 ---	6.71 0.14	30.9 ---	10.88 3.48	--- ---	--- ---	14
	14.0 12:34	3.9 22.896	18.23	7.99 101.	0.59 0.76	6.46 0.15	29.1 0.56	10.91 5.14	8.26 1.70	2.14 1.38	15
2-1	1.0 12:55	4.4 20.185	16.06	--- ---	0.59 ---	7.12 0.14	36.3 ---	12.03 4.97	--- ---	--- ---	16
	4.0 12:55	4.3 20.205	16.08	--- ---	0.58 ---	7.13 0.15	36.0 ---	12.22 5.62	--- ---	--- ---	17
	14.0 12:55	3.9 20.445	16.30	--- ---	0.69 ---	6.98 0.15	35.1 ---	10.14 4.70	--- ---	--- ---	18
2-2	1.0 13:14	4.4 19.372	15.42	--- ---	0.54 ---	7.42 0.15	38.4 ---	13.74 7.71	--- ---	--- ---	19
	4.0 13:14	4.4 19.643	15.63	--- ---	0.56 ---	7.27 0.16	37.4 ---	12.93 5.50	--- ---	--- ---	20
	14.0 13:14	4.0 19.640	15.65	--- ---	0.59 ---	7.32 0.14	37.7 ---	12.45 6.54	--- ---	--- ---	21
2-3	1.0 13:29	4.6 18.387	14.63	--- ---	0.55 ---	7.82 0.16	40.7 ---	14.30 ---	--- ---	--- ---	22

GREAT BAY ESTUARINE DATA: CRUISE #3 3/24/76

STA #	DEPTH / TIME	TEMP / SAL	SIGMA-t	OXYGEN / % SAT	PO4 / TOT PO4	NO3 / NO2	SIO4 / NH4	NO3/PO4 / SUSP Ld	pH / CHL a	CARO / PHAE	ROW #
	4.0	4.4	14.76	---	0.57	8.18	40.4	14.36	---	---	23
	13:29	18.543		---	---	0.17	---	---	---	---	
	11.0	4.1	15.12	---	0.56	7.47	39.3	13.26	---	---	24
	13:29	18.972		---	---	0.16	---	---	---	---	
2-4	1.0	4.6	13.97	---	0.54	7.76	43.2	14.47	---	---	25
	13:39	17.549		---	---	0.17	---	---	---	---	
	4.0	4.4	14.16	---	0.53	7.91	42.7	14.85	---	---	26
	13:39	17.782		---	---	0.16	---	---	---	---	
	7.0	4.2	14.34	---	0.54	7.96	41.5	14.85	---	---	27
	13:39	17.997		---	---	0.17	---	---	---	---	
3	0.2	4.4	5.96	9.20	0.42	9.47	76.6	22.67	7.98	1.69	28
	13:57	7.362		107.	0.79	0.16	2.13	6.01	0.90	1.13	
	1.2	4.2	7.94	9.11	0.49	8.83	63.3	18.16	8.11	2.18	29
	13:57	9.867		107.	0.87	0.16	1.59	8.84	1.50	1.02	
	4.0	4.3	14.20	8.54	0.56	7.68	42.8	13.82	8.20	3.04	30
	13:57	17.818		106.	0.86	0.16	0.82	19.80	2.70	1.43	
3-1	1.0	4.4	4.27	---	0.38	9.70	80.6	25.79	---	---	31
	14:07	5.211		---	---	0.16	---	---	---	---	
	4.0	4.2	7.84	---	0.52	8.61	60.6	16.49	---	---	32
	14:07	9.738		---	---	0.16	---	---	---	---	
	5.5	3.9	18.96	---	0.65	6.16	26.5	9.51	---	---	33
	14:07	23.813		---	---	0.13	---	---	---	---	
3-2	1.0	5.4	13.07	---	0.53	8.19	44.9	15.44	---	---	34
	14:21	16.496		---	---	0.16	---	---	---	---	
	4.0	4.7	13.52	---	0.52	8.10	44.4	15.47	---	---	35
	14:21	16.985		---	---	0.17	---	---	---	---	
	10.0	4.2	14.26	---	0.54	7.84	42.1	14.40	---	---	36
	14:21	17.895		---	---	0.16	---	---	---	---	
4	1.0	7.2	10.09	8.94	0.54	10.15	59.9	18.74	8.08	2.10	37
	14:35	12.843		115.	0.83	0.25	1.92	5.07	1.70	0.89	
	3.0	5.9	13.71	8.75	0.55	7.76	43.2	14.01	8.17	3.26	38
	14:35	17.339		112.	0.90	0.18	0.99	6.82	2.70	1.78	
5	0.2	5.6	11.37	8.68	0.53	8.97	52.1	16.84	8.13	2.93	38
	14:47	14.329		108.	0.79	0.17	1.66	4.60	2.90	0.88	
	1.2	5.5	11.66	8.75	0.69	8.75	52.5	13.50	8.09	3.19	40
	14:47	14.684		109.	0.87	0.18	1.17	7.37	3.00	1.13	
	11.5	4.0	15.08	8.48	0.58	7.76	39.7	13.39	8.21	3.38	41
	14:47	18.909		105.	0.87	0.16	1.17	6.55	3.10	1.24	
5-1	1.0	5.0	12.79	---	0.48	8.21	48.2	17.14	---	---	42
	14:58	16.089		---	---	0.18	---	11.26	---	---	
	4.0	4.8	12.28	---	0.50	8.35	48.2	16.72	---	---	43
	14:58	15.419		---	---	0.18	---	6.16	---	---	
	12.0	4.4	13.45	---	0.54	8.11	44.1	15.08	---	---	44
	14:58	16.873		---	---	0.17	---	6.72	---	---	

GREAT BAY ESTUARINE DATA: CRUISE #3 3/24/76

STA #	DEPTH TIME	TEMP SAL	SIGMA-t	OXYGEN % SAT	PO4 TOT PO4	NO3 NO2	SiO4 NH4	NO3/PO4 SUSP Ld	pH CHL a	CARO PHAE	ROW #
6	0.2 15:13	5.3 14.549	11.56	8.68 108.	0.49 0.92	8.61 0.20	50.5 1.01	17.42 10.45	8.10 3.30	4.39 2.44	45
	1.2 15:13	5.2 14.620	11.62	8.71 108.	0.49 0.92	8.61 0.20	50.0 1.15	17.48 13.36	8.10 3.32	4.41 2.61	46
	4.0 15:13	4.9 15.105	12.02	--- ---	0.47 ---	8.73 0.20	48.9 ---	18.77 9.59	--- ---	--- ---	47
	12.5 15:13	4.2 15.786	12.60	8.53 104.	0.47 0.84	8.33 0.20	47.3 1.12	17.58 9.19	8.14 3.43	4.11 2.33	48
7	0.2 15:29	6.0 12.955	10.27	8.75 109.	0.47 1.12	8.49 0.18	55.8 1.50	18.23 14.27	8.06 3.20	5.06 3.36	49
	1.2 15:29	5.8 13.311	10.56	8.54 107.	0.51 1.33	9.10 0.23	53.0 1.54	17.73 19.70	8.06 3.34	5.70 4.23	50
	4.0 15:29	4.8 15.761	12.55	--- ---	0.53 ---	8.28 0.18	47.5 ---	8.96 8.54	--- ---	--- ---	51
	6.0 15:29	4.6 15.974	12.73	8.47 104.	0.54 1.46	8.54 0.18	46.9 1.88	15.77 22.97	8.09 4.01	6.00 3.62	52

GREAT BAY ESTUARINE DATA: CRUISE #4 4/21/76

STA #	DEPTH TIME	TEMP SAL	SIGMA-t	OXYGEN % SAT	PO4 TOT PO4	NO3 NO2	SiO4 NH4	NO3/PO4 SUSP Ld	pH CHL a	CARO PHAE	ROW #
1	0.3 9:54	9.0 29.736	23.05	7.63 114.	0.22 1.01	0.53 0.05	3.17 0.98	2.34 2.79	8.25 0.90	0.79 0.57	1
	1.2 9:54	8.6 29.757	23.12	7.65 113.	0.75 0.55	1.08 0.07	3.40 0.28	1.43 3.69	8.28 0.90	1.01 0.71	2
	4.0 9:54	8.6 29.819	23.17	--- ---	0.28 ---	0.33 0.08	3.50 ---	1.18 3.26	--- ---	--- ---	3
	11.0 10:00	8.4 29.990	23.33	7.80 115.	0.18 0.59	0.30 0.05	2.91 1.08	1.67 3.47	8.29 1.00	0.83 0.33	4
1-1	0.3 10:13	9.2 29.168	22.58	--- ---	0.38 ---	0.26 1.24	4.31 ---	0.69 1.79	--- ---	--- ---	5
	1.2 10:13	9.1 29.133	22.56	--- ---	0.35 ---	-0.51 1.37	4.38 ---	-1.44 3.28	--- ---	--- ---	6
	4.0 10:13	9.0 29.322	22.73	--- ---	0.76 ---	1.08 0.07	3.40 ---	1.43 2.76	--- ---	--- ---	7
	14.0 10:17	8.4 29.874	23.24	--- ---	0.22 ---	0.34 0.05	2.98 ---	1.54 3.75	--- ---	--- ---	8
1-2	0.3 10:30	10.0 27.748	21.35	--- ---	0.44 ---	1.06 0.10	7.11 ---	2.44 ---	--- ---	--- ---	9
	1.2 10:30	9.8 27.722	21.36	--- ---	0.47 ---	0.95 0.12	7.50 ---	2.03 ---	--- ---	--- ---	10
	4.0 10:30	9.8 27.725	21.36	--- ---	0.49 ---	1.23 0.11	7.26 ---	2.50 ---	--- ---	--- ---	11
	15.0 10:34	9.6 27.699	21.37	--- ---	0.50 ---	1.11 0.11	7.37 ---	2.23 ---	--- ---	--- ---	12
2	0.3 10:46	10.3 27.047	20.76	7.18 109.	0.50 0.90	1.19 0.13	8.72 0.59	2.39 5.21	8.20 2.10	2.29 1.33	13
	1.2 10:46	10.2 27.043	20.77	7.15 108.	0.45 0.85	1.23 0.13	8.87 0.69	2.72 5.31	8.21 2.30	2.40 1.20	14
	4.0 10:46	10.1 27.050	20.79	--- ---	0.47 ---	1.28 0.14	8.87 ---	2.70 6.80	--- ---	--- ---	15
	14.0 10:51	9.8 27.050	20.84	7.26 109.	0.32 0.80	1.05 0.14	8.30 0.59	3.30 6.09	8.23 2.00	2.40 1.57	16
2-1	0.3 11:08	10.9 25.994	19.84	--- ---	0.49 ---	1.26 0.15	11.1 ---	2.54 ---	--- ---	--- ---	17
	1.2 11:08	10.8 26.007	19.87	--- ---	0.50 ---	1.20 0.17	9.97 ---	2.43 ---	--- ---	--- ---	18
	4.0 11:08	10.8 25.973	19.84	--- ---	0.57 ---	1.38 0.15	10.9 ---	2.39 ---	--- ---	--- ---	19
	15.0 11:17	10.6 26.008	19.90	--- ---	0.59 ---	2.12 0.16	10.9 ---	3.60 ---	--- ---	--- ---	20
2-2	0.2 11:24	10.9 25.594	19.53	--- ---	0.52 ---	1.40 0.17	11.9 ---	2.69 5.59	--- ---	--- ---	21
	1.2 11:24	10.8 25.582	19.54	--- ---	0.55 ---	1.61 0.16	11.6 ---	2.92 5.86	--- ---	--- ---	22

GREAT BAY ESTUARINE DATA: CRUISE #4 4/21/76

STA #	DEPTH TIME	TEMP SAL	SIGMA-t	OXYGEN % SAT	PO4 TOT PO4	NO3 NO2	SiO4 NH4	NO3/PO4 SUSP Ld	pH CHL a	CARO PHAE	ROW #
	4.0	10.8	19.55	---	0.47	1.28	12.0	2.72	---	---	23
	11:24	25.598		---	---	0.16	---	9.54	---	---	
	15.0	10.7	19.62	---	0.49	1.38	11.5	2.82	---	---	24
	11:27	25.664		---	---	0.16	---	8.31	---	---	
2-3	0.2	11.2	18.93	---	0.51	1.39	13.2	2.73	---	---	25
	11:37	24.878		---	---	0.17	---	---	---	---	
	1.2	11.2	18.92	---	0.52	1.37	13.2	2.62	---	---	26
	11:37	24.868		---	---	0.19	---	---	---	---	
	4.0	11.1	19.00	---	0.52	1.39	12.9	2.68	---	---	27
	11:37	24.941		---	---	0.17	---	---	---	---	
	15.0	10.9	19.29	---	0.50	1.39	12.7	2.80	---	---	28
	11:41	25.272		---	---	0.16	---	---	---	---	
2-4	0.2	11.8	18.03	---	0.60	1.79	14.3	2.99	---	---	29
	11:58	23.845		---	---	0.21	---	7.15	---	---	
	1.2	11.6	18.09	---	0.25	0.23	14.9	0.91	---	---	30
	11:58	23.876		---	---	0.20	---	6.36	---	---	
	4.0	11.6	18.18	---	0.54	1.47	15.1	2.71	---	---	31
	11:58	23.991		---	---	0.19	---	7.56	---	---	
	12.5	11.4	18.59	---	0.54	1.35	13.6	2.52	---	---	32
	12:02	24.483		---	---	0.17	---	8.26	---	---	
3	0.2	13.6	12.21	6.51	0.77	3.69	34.1	4.82	8.01	3.41	33
	12:13	16.657		99.3	1.52	0.29	3.53	---	3.10	1.10	
	1.2	13.6	12.18	6.53	0.76	3.66	33.9	4.81	8.10	3.53	34
	12:13	16.625		100.	1.47	0.29	4.02	5.63	2.70	1.78	
	6.5	11.5	18.04	6.89	0.59	1.69	15.7	2.84	8.00	1.16	35
	12:17	23.784		105.	1.28	0.19	1.57	6.44	3.70	1.90	
3-1	0.2	14.2	10.16	---	0.97	5.08	40.7	5.23	---	---	36
	12:23	14.122		---	---	0.31	---	4.49	---	---	
	1.2	14.0	10.90	---	0.84	4.40	36.7	5.25	---	---	37
	12:23	15.037		---	---	0.35	---	---	---	---	
	2.8	12.7	14.07	---	---	---	29.6	---	---	---	38
	12:23	18.895		---	---	0.26	---	7.31	---	---	
3-2	0.2	12.2	17.83	---	0.49	1.43	15.2	2.90	---	---	39
	12:41	23.670		---	---	0.19	---	6.20	---	---	
	1.2	12.1	17.85	---	0.55	1.41	15.1	2.58	---	---	40
	12:41	23.673		---	---	0.19	---	7.10	---	---	
	4.0	12.0	17.92	---	0.55	1.46	15.1	2.63	---	---	41
	12:41	23.737		---	---	0.18	---	6.86	---	---	
	14.0	11.6	18.31	---	0.50	1.50	14.2	3.01	---	---	42
	12:45	24.153		---	---	0.19	---	5.84	---	---	
4	0.2	14.0	16.25	6.48	0.74	2.14	18.3	2.90	8.04	5.55	43
	12:55	22.036		103.	1.51	0.26	1.27	8.65	5.01	2.07	
	2.3	13.0	17.37	6.93	0.68	1.53	16.0	2.24	8.12	8.66	44
	12:57	23.253		109.	1.73	0.22	0.59	15.45	7.41	3.59	

GREAT BAY ESTUARINE DATA: CRUISE #4 4/21/76

STA #	DEPTH TIME	TEMP SAL	SIGMA-t	OXYGEN % SAT	PO4 TOT PO4	NO3 NO2	SiO4 NH4	NO3/PO4 SUSP Ld	pH CHL a	CARO PHAE	ROW #
5	0.2 13:07	12.8 22.966	17.19	7.01 109.	0.52 1.09	1.04 0.19	16.1 0.49	2.01 5.71	8.13 7.21	6.75 2.11	45
	1.2 13:07	12.8 22.951	17.17	6.93 108.	0.56 1.15	1.21 0.19	16.0 0.39	2.16 6.42	8.13 7.11	6.56 1.86	46
	4.0 13:07	12.6 22.992	17.24	--- ---	0.47 ---	0.99 0.18	16.0 ---	2.12 7.50	--- ---	--- ---	47
	8.6 13:13	12.6 23.049	17.28	6.94 108.	0.57 1.16	1.35 0.20	15.9 0.59	2.35 9.09	8.13 7.01	6.26 1.61	48
5-1	0.2 13:19	13.3 22.447	16.70	--- ---	0.44 ---	0.58 0.18	16.7 ---	1.32 ---	--- ---	--- ---	49
	1.2 13:19	13.3 22.440	16.69	--- ---	0.51 ---	0.82 0.18	16.8 ---	1.60 ---	--- ---	--- ---	50
	4.0 13:19	12.9 22.668	16.94	--- ---	0.56 ---	1.06 0.19	16.5 ---	1.89 ---	--- ---	--- ---	51
	10.0 13:23	12.2 23.535	17.73	--- ---	0.57 ---	1.34 0.19	15.1 ---	2.35 ---	--- ---	--- ---	52
6	0.2 13:36	14.0 21.483	15.83	6.97 110.	0.53 1.04	0.67 0.19	18.2 0.88	1.27 ---	8.12 11.01	9.71 1.74	53
	1.2 13:36	13.6 21.908	16.23	7.04 111.	0.53 1.11	0.77 0.20	17.6 0.39	1.44 4.08	8.12 9.51	9.00 2.26	54
	4.0 13:36	13.5 22.047	16.35	--- ---	0.41 ---	0.79 0.18	17.4 ---	1.95 ---	--- ---	--- ---	55
	11.0 13:40	13.0 22.332	16.66	6.73 105.	0.55 1.00	1.06 0.19	17.1 0.39	1.93 3.26	8.11 7.71	7.28 1.89	56
7	0.2 13:51	14.4 19.536	14.27	6.34 100.	0.76 1.65	1.90 0.30	23.0 1.37	2.49 9.07	7.97 5.91	6.94 2.57	57
	1.2 13:51	13.8 20.900	15.42	6.53 103.	0.60 1.30	1.13 0.23	19.9 0.59	1.87 5.37	8.07 9.01	8.36 2.32	58
	4.0 13:51	13.8 21.679	20.62	--- ---	0.48 ---	1.82 0.20	18.4 ---	3.79 ---	--- ---	--- ---	59
	5.5 13:58	13.8 21.650	16.00	6.60 104.	0.59 1.62	1.18 0.24	18.4 0.78	2.01 10.20	8.08 1.92	6.99 3.25	60

GREAT BAY ESTUARINE DATA: CRUISE #5 5/19/76

STA #	DEPTH TIME	TEMP SAL	SIGMA-t	OXYGEN % SAT	PO4 TOT PO4	NO3 NO2	SiO4 NH4	NO3/PO4 SUSP Ld	pH CHL a	CARO PHAE	ROW #
1	0.2	---	---	---	---	---	---	---	---	---	1
	9:01	---		---	---	---	---	---	---	---	
	1.2	8.5	24.13	6.70	0.48	1.21	2.39	2.54	---	---	2
	9:01	31.023		100.	2.15	0.09	0.28	9.41	4.81	---	
	4.0	8.4	24.28	6.62	0.44	1.10	1.78	2.49	---	---	3
	9:01	31.194		98.7	---	0.04	---	---	---	---	
	9.0	9.0	24.26	6.55	0.48	0.89	2.15	1.84	---	---	4
	9:01	31.289		99.0	1.17	0.02	0.18	10.93	4.91	---	
1-1	0.2	9.6	23.48	---	0.53	1.75	3.52	3.32	---	---	5
	9:22	30.410		---	---	0.14	---	8.59	---	---	
	1.2	9.3	23.61	---	0.54	2.01	3.02	3.71	---	---	6
	9:22	30.519		---	---	0.10	---	9.20	---	---	
	4.0	9.2	23.65	---	0.55	1.45	2.98	2.62	---	---	7
	9:22	30.549		---	---	0.09	---	---	---	---	
	15.0	9.1	23.84	---	0.51	1.53	3.39	2.99	---	---	8
	9:22	30.769		---	---	0.12	---	4.46	---	---	
1-2	0.2	10.2	22.51	---	0.66	3.01	5.72	4.55	---	---	9
	9:39	29.285		---	---	0.20	---	4.31	---	---	
	1.2	10.1	22.49	---	0.67	3.09	5.92	4.61	---	---	10
	9:39	29.244		---	---	0.20	---	9.95	---	---	
	4.0	9.8	22.58	---	0.66	3.00	5.82	4.55	---	---	11
	9:39	29.290		---	---	0.21	---	11.48	---	---	
	15.0	10.0	22.57	---	0.65	3.17	5.82	4.87	---	---	12
	9:39	29.326		---	---	0.19	---	4.80	---	---	
2	0.2	10.2	21.93	6.56	0.73	4.08	7.44	5.61	---	---	13
	9:56	28.532		100.	1.53	0.23	1.02	9.75	4.01	---	
	1.2	10.2	21.91	6.56	0.71	3.66	7.37	5.13	---	---	14
	9:56	28.514		100.	1.57	0.24	1.28	10.14	4.51	---	
	4.0	10.3	21.91	---	0.72	3.62	7.28	5.05	---	---	15
	9:56	28.535		---	---	0.26	---	10.51	---	---	
	15.0	10.2	22.07	6.55	0.67	3.35	7.04	4.99	---	---	16
	9:56	28.712		100.	1.75	0.22	1.21	9.22	4.41	---	
2-1	0.2	11.1	20.78	---	0.81	4.54	10.3	5.60	---	---	17
	10:20	27.250		---	---	0.33	---	12.26	---	---	
	1.2	11.1	20.78	---	0.80	4.54	10.3	5.69	---	---	18
	10:20	27.247		---	---	0.31	---	10.40	---	---	
	4.0	11.1	20.77	---	0.80	4.62	10.4	5.75	---	---	19
	10:20	27.229		---	---	0.30	---	13.33	---	---	
	15.0	10.9	20.89	---	0.80	4.67	10.3	5.86	---	---	20
	10:20	27.340		---	---	0.31	---	11.77	---	---	
2-2	0.2	11.3	20.47	---	0.81	4.85	11.0	5.99	---	---	21
	10:32	26.890		---	---	0.30	---	11.18	---	---	
	1.2	11.1	20.49	---	0.86	4.49	11.2	5.23	---	---	22
	10:32	26.871		---	---	0.33	---	---	---	---	

GREAT BAY ESTUARINE DATA: CRUISE #5 5/19/76

STA #	DEPTH TIME	TEMP SAL	SIGMA-t	OXYGEN % SAT	PO4 TOT PO4	NO3 NO2	SiO4 NH4	NO3/PO4 SUSP Ld	pH CHL a	CARO PHAE	ROW #
	4.0	11.1	20.52	---	0.82	4.81	11.0	5.87	---	---	23
	10:32	26.907		---	---	0.31	---	4.67	---	---	
	15.0	11.2	20.56	---	0.80	4.80	11.2	5.96	---	---	24
	10:32	26.982		---	---	0.31	---	---	---	---	
2-3	0.2	11.8	19.67	---	0.85	5.45	13.5	6.39	---	---	25
	10:47	25.969		---	---	0.35	---	12.50	---	---	
	1.2	11.7	19.73	---	0.86	5.42	13.2	6.27	---	---	26
	10:47	26.019		---	---	0.34	---	10.26	---	---	
	4.0	11.7	19.76	---	0.89	5.08	13.1	5.71	---	---	27
	10:47	26.055		---	---	0.36	---	---	---	---	
	15.0	11.7	19.96	---	0.86	5.30	12.3	6.19	---	---	28
	10:47	26.314		---	---	0.36	---	8.06	---	---	
2-4	0.2	12.5	19.09	---	0.92	5.56	14.8	6.03	---	---	29
	11:11	25.365		---	---	0.40	---	9.19	---	---	
	1.2	12.4	19.18	---	0.91	5.82	14.4	6.37	---	---	30
	11:11	25.459		---	---	0.41	---	11.52	---	---	
	4.0	12.4	19.24	---	0.92	5.50	14.1	5.97	---	---	31
	11:11	25.542		---	---	0.40	---	11.01	---	---	
	10.0	12.4	19.24	---	0.92	5.64	14.2	6.13	---	---	32
	11:11	25.535		---	---	0.41	---	7.92	---	---	
3	0.2	13.8	10.63	6.61	1.10	7.21	39.2	6.56	---	---	33
	11:22	14.640		100.	2.83	0.52	8.61	0.80	1.50	---	
	1.2	14.2	10.73	6.54	1.14	7.14	39.7	6.26	---	---	34
	11:22	14.869		100.	2.43	0.51	8.42	14.63	1.50	---	
	5.5	12.3	18.61	6.41	1.01	5.20	16.6	5.13	---	---	35
	11:22	24.706		100.	2.71	0.40	3.62	30.43	2.75	---	
3-1	0.2	14.7	8.02	---	1.12	7.35	47.3	6.56	---	---	36
	11:31	11.421		---	---	0.52	---	10.93	---	---	
	1.2	14.8	8.02	---	1.09	7.54	47.0	6.90	---	---	37
	11:31	11.447		---	---	0.50	---	9.81	---	---	
	4.0	14.2	11.30	---	1.21	7.35	37.6	6.09	---	---	38
	11:31	15.604		---	---	0.49	---	17.50	---	---	
3-2	0.2	12.8	18.62	---	0.94	5.95	15.9	6.36	---	---	39
	11:47	24.823		---	---	0.46	---	---	---	---	
	1.2	12.8	18.70	---	0.94	6.27	15.8	6.67	---	---	40
	11:47	24.936		---	---	0.43	---	12.20	---	---	
	4.0	12.6	18.99	---	0.96	5.66	15.0	5.91	---	---	41
	11:47	25.260		---	---	0.43	---	18.89	---	---	
	10.0	12.6	19.01	---	0.96	5.99	15.0	6.27	---	---	42
	11:47	25.288		---	---	0.44	---	---	---	---	
4	0.2	13.0	17.49	6.37	1.08	6.87	19.3	6.39	---	---	43
	12:05	23.405		100.	2.24	0.53	5.67	17.75	2.17	---	
	3.5	12.8	18.13	6.36	1.06	6.13	17.7	5.78	---	---	44
	12:05	24.187		100.	2.07	0.46	4.69	19.84	2.75	---	

GREAT BAY ESTUARINE DATA: CRUISE #5 5/19/76

STA #	DEPTH TIME	TEMP SAL	SIGMA-t	OXYGEN % SAT	PO4 TOT PO4	NO3 NO2	SiO4 NH4	NO3/PO4 SUSP Ld	pH CHL a	CARO PHAE	ROW #
5	0.2 12:21	13.8 22.413	16.58	6.30 100.	1.20 2.17	7.02 0.63	24.5 7.52	5.83 21.38	--- 3.20	--- ---	45
	1.2 12:21	13.4 23.722	17.66	6.30 100.	1.05 2.02	6.42 0.49	18.9 5.57	6.13 18.83	--- 3.66	--- ---	46
	4.0 12:21	13.1 24.262	18.13	--- ---	1.02 ---	6.56 0.47	18.2 ---	6.46 15.30	--- ---	--- ---	47
	12.0 12:21	--- 24.300	---	6.32 ---	--- 2.27	--- ---	--- 4.15	--- ---	--- 2.75	--- ---	48
5-1	0.2 12:34	13.8 23.671	17.55	--- ---	0.93 ---	7.08 0.48	18.3 ---	7.63 11.48	--- ---	--- ---	49
	1.2 12:34	13.7 23.672	17.57	--- ---	0.99 ---	6.85 0.50	18.3 ---	6.94 16.32	--- ---	--- ---	50
	4.0 12:34	13.8 23.729	17.59	--- ---	0.97 ---	6.49 0.49	18.1 ---	6.68 19.87	--- ---	--- ---	51
	12.0 12:34	13.2 24.513	18.30	--- ---	0.95 ---	6.79 0.44	16.7 ---	7.17 16.89	--- ---	--- ---	52
6	0.2 12:53	14.3 20.980	15.39	6.29 100.	1.60 ---	6.99 0.82	25.4 5.98	4.38 16.32	--- 6.41	--- ---	53
	1.2 12:53	14.3 21.579	15.85	6.27 100.	1.60 ---	7.45 0.57	24.0 5.41	4.66 102.73	--- 5.45	--- ---	54
	4.0 12:53	14.1 22.889	16.89	--- ---	1.07 ---	6.88 0.55	20.1 ---	6.46 43.16	--- ---	--- ---	55
	14.0 12:53	14.0 23.466	17.35	6.23 100.	1.08 3.12	6.83 0.50	19.1 4.82	6.30 36.56	--- 3.20	--- ---	56
7	0.2 13:11	14.8 20.472	14.91	6.24 100.	1.23 2.80	8.39 0.60	24.7 7.30	6.81 20.87	--- 3.34	--- ---	57
	1.2 13:11	14.8 20.922	15.25	6.23 100.	1.14 3.00	8.01 0.63	24.4 4.35	7.03 34.42	--- 2.67	--- ---	58
	4.0 13:11	14.3 22.991	16.93	--- ---	1.11 2.72	7.22 0.57	20.1 ---	6.52 21.16	--- ---	--- ---	59
	6.0 13:11	14.4 23.242	17.10	6.19 100.	1.11 ---	6.89 0.52	19.6 3.48	6.18 ---	--- 2.27	--- ---	60

GREAT BAY ESTUARINE DATA: CRUISE #6 6/22/76

STA #	DEPTH / TIME	TEMP / SAL	SIGMA-t	OXYGEN / % SAT	PO4 / TOT PO4	NO3 / NO2	SiO4 / NH4	NO3/PO4 / SUSP Ld	pH / CHL a	CARO / PHAE	ROW #
1	0.2	10.1	23.92	6.23	0.83	4.79	5.60	5.76	7.75	1.91	1
	12:33	31.080		96.4	3.51	0.23	0.26	3.40	0.90	3.29	
	1.2	9.5	24.66	6.22	0.84	5.42	5.48	6.42	7.63	1.43	2
	12:33	31.906		95.5	2.07	0.23	0.28	4.90	0.80	3.25	
	4.0	8.9	24.80	---	0.81	4.59	5.58	5.64	---	---	3
	12:33	31.962		---	---	0.23	---	4.80	---	---	
	12.0	8.5	24.87	6.27	0.79	4.77	5.98	6.00	7.64	1.43	4
	12:33	31.970		94.1	1.71	---	0.28	4.70	0.60	3.56	
1-1	0.2	12.0	23.83	---	0.83	---	---	---	---	---	5
	12:55	31.394		---	---	5.42	0.29	---	---	---	
	1.2	11.7	23.90	---	0.84	4.27	5.05	5.09	---	---	6
	12:55	31.392		---	---	0.23	---	3.20	---	---	
	4.0	11.2	24.01	---	0.83	4.28	5.17	5.17	---	---	7
	12:55	31.437		---	---	0.20	---	3.00	---	---	
	14.5	10.1	24.43	---	0.85	4.39	5.47	5.19	---	---	8
	12:55	31.738		---	---	0.23	---	4.70	---	---	
1-2	0.2	13.4	23.30	---	0.82	3.98	4.77	4.85	---	---	9
	13:14	31.054		---	---	0.23	---	5.00	---	---	
	1.2	13.1	23.35	---	0.83	4.21	4.93	6.90	---	---	10
	13:14	31.043		---	---	0.22	---	5.10	---	---	
	4.0	13.0	23.37	---	0.84	3.85	4.83	4.57	---	---	11
	13:14	31.045		---	---	0.23	---	5.10	---	---	
	14.5	12.4	23.58	---	0.84	3.98	5.36	4.74	---	---	12
	13:14	31.160		---	---	0.23	---	8.10	---	---	
2	0.2	15.0	22.62	6.15	0.79	3.34	4.17	4.20	7.75	7.16	13
	13:30	30.599		105.	1.86	0.24	0.20	6.90	3.80	2.89	
	1.2	14.6	22.72	6.17	0.80	3.37	4.25	4.19	7.72	6.86	14
	13:30	30.619		105.	2.02	0.24	0.18	5.40	3.10	2.94	
	4.0	14.5	22.75	---	0.90	4.76	4.34	5.26	---	---	15
	13:30	30.632		---	---	0.24	---	5.60	---	---	
	12.0	13.9	22.95	6.04	0.88	3.61	4.43	4.08	7.77	9.00	16
	13:30	30.725		101.	2.29	0.23	0.14	5.70	3.40	3.11	
2-1	0.2	17.4	21.62	---	0.71	2.71	3.74	3.82	---	---	17
	13:55	29.997		---	---	0.21	---	6.50	---	---	
	1.2	17.1	21.70	---	0.79	3.06	3.45	3.87	---	---	18
	13:55	30.008		---	---	0.23	---	6.40	---	---	
	4.0	16.9	21.75	---	0.74	2.70	3.55	3.65	---	---	19
	13:55	30.005		---	---	0.20	---	6.80	---	---	
	16.8	15.9	22.10	---	0.80	3.27	3.93	4.10	---	---	20
	13:55	30.173		---	---	0.22	---	6.30	---	---	
2-2	0.2	17.6	21.48	---	0.74	2.45	4.94	3.31	---	---	21
	14:10	29.870		---	---	0.21	---	5.90	---	---	
	1.2	17.4	21.51	---	0.72	2.87	3.46	3.98	---	---	22
	14:10	29.845		---	---	0.20	---	5.90	---	---	

GREAT BAY ESTUARINE DATA: CRUISE #6 6/22/76

STA #	DEPTH / TIME	TEMP / SAL	SIGMA-t	OXYGEN / % SAT	PO4 / TOT PO4	NO3 / NO2	SiO4 / NH4	NO3/PO4 / SUSP Ld	pH / CHL a	CARO / PHAE	ROW #
	4.0	17.2	21.58	---	0.71	2.45	3.62	3.46	---	---	23
	14:10	29.876		---	---	0.21	---	5.60	---	---	
	15.2	16.8	21.70	---	0.70	2.63	3.46	3.76	---	---	24
	14:10	29.912		---	---	0.20	---	6.30	---	---	
2-3	0.2	19.1	20.80	---	0.68	2.03	3.38	2.98	---	---	25
	14:30	29.459		---	---	0.18	---	5.80	---	---	
	1.2	18.9	20.81	---	0.69	2.06	2.99	2.97	---	---	26
	14:30	29.397		---	---	0.13	---	7.30	---	---	
	4.0	18.7	20.85	---	0.71	2.02	3.41	2.84	---	---	27
	14:30	29.387		---	---	0.20	---	8.50	---	---	
	11.5	18.4	20.92	---	0.73	1.87	3.01	2.54	---	---	28
	14:30	29.391		---	---	0.23	---	7.50	---	---	
2-4	0.2	19.9	20.41	---	0.65	1.31	2.80	2.00	---	---	29
	14:47	29.208		---	---	0.15	---	7.50	---	---	
	1.2	19.6	20.42	---	0.71	1.39	2.60	1.98	---	---	30
	14:47	29.118		---	---	0.15	---	10.10	---	---	
	4.0	19.4	20.51	---	0.64	1.50	2.85	2.32	---	---	31
	14:47	29.170		---	---	0.13	---	8.90	---	---	
	14.0	19.2	20.52	---	0.71	1.71	2.90	2.42	---	---	32
	14:47	29.117		---	---	0.16	---	9.90	---	---	
3	0.2	22.2	17.53	5.74	1.02	5.54	7.96	5.43	7.86	13.39	33
	15:00	26.192		110.	---	0.49	0.37	7.90	7.01	---	
	1.2	21.7	17.86	5.82	1.02	5.03	7.15	4.94	7.85	13.39	34
	15:00	26.449		111.	3.26	0.44	0.37	17.70	7.21	---	
	4.0	19.4	20.09	---	0.80	2.74	3.93	3.43	---	---	35
	15:00	28.622		---	---	0.25	---	8.90	---	---	
	7.0	18.6	20.63	5.88	0.78	2.47	3.66	3.18	7.79	13.28	36
	15:00	29.074		107.	3.23	0.23	0.14	6.50	7.71	---	
3-1	0.2	23.6	14.79	---	1.40	9.07	13.8	6.50	---	---	37
	15:11	23.060		---	---	0.75	---	11.00	---	---	
	1.2	23.6	15.83	---	1.12	6.46	10.4	5.75	---	---	38
	15:11	24.442		---	---	0.60	---	7.30	---	---	
	4.0	19.8	19.65	---	0.89	3.12	4.69	3.49	---	---	39
	15:11	28.173		---	---	0.29	---	7.20	---	---	
	6.5	16.5	21.76	---	0.90	3.19	4.27	3.54	---	---	40
	15:11	29.900		---	---	0.24	---	12.60	---	---	
3-2	0.2	21.5	19.73	---	0.62	0.77	2.73	1.24	---	---	41
	15:29	28.860		---	---	0.09	---	14.10	---	---	
	1.2	20.8	19.94	---	0.67	0.85	2.65	1.27	---	---	42
	15:29	28.898		---	---	0.12	---	9.20	---	---	
	4.0	20.0	20.28	---	0.64	1.12	2.64	1.76	---	---	43
	15:29	29.068		---	---	0.12	---	9.70	---	---	
	5.0	19.6	20.45	---	0.69	1.26	2.60	1.81	---	---	44
	15:29	29.162		---	---	0.13	---	10.10	---	---	

GREAT BAY ESTUARINE DATA: CRUISE #6 6/22/76

STA #	DEPTH TIME	TEMP SAL	SIGMA-t	OXYGEN % SAT	PO4 TOT PO4	NO3 NO2	SiO4 NH4	NO3/PO4 SUSP Ld	pH CHL a	CARO PHAE	ROW #
4	0.2	21.2	19.75	5.78	0.66	0.70	2.41	1.07	7.85	10.58	45
	15:45	28.778		110.	2.48	0.09	0.07	10.00	6.81	2.68	
	1.2	20.8	19.86	---	0.66	0.78	2.44	1.18	---	---	46
	15:45	28.794		---	2.26	0.08	0.18	---	---	---	
	4.0	20.6	19.95	---	0.65	0.72	2.78	1.11	---	---	47
	15:45	28.832		---	---	0.12	---	---	---	---	
	8.0	20.6	19.96	5.77	0.71	0.77	2.40	1.09	7.86	12.23	48
	15:45	28.856		109.	---	0.11	---	11.40	6.51	2.79	
5	0.2	21.8	19.49	5.88	0.68	0.43	2.49	0.63	7.89	12.53	49
	15:58	28.649		113.	---	0.09	0.14	8.50	6.51	2.76	
	1.2	21.7	19.52	5.82	0.67	0.48	2.22	0.72	7.89	13.88	50
	15:58	28.659		112.	2.13	0.08	0.07	---	7.51	2.78	
	4.0	21.7	19.55	---	0.67	0.50	2.43	0.75	---	---	51
	15:58	28.675		---	---	0.09	---	---	---	---	
	8.5	---	---	5.68	0.67	0.49	---	0.73	7.88	11.74	52
	15:58	28.726		---	3.61	0.10	0.09	11.90	7.01	2.83	
5-1	0.2	22.8	19.08	---	0.82	---	5.97	5.92	---	---	53
	16:08	28.466		---	---	0.18	---	9.00	---	---	
	1.2	22.8	19.09	---	0.64	0.20	2.47	0.31	---	---	54
	16:08	28.458		---	---	0.06	---	---	---	---	
	4.0	22.3	19.23	---	0.66	0.17	2.45	0.26	---	---	55
	16:08	28.484		---	---	0.04	---	---	---	---	
	16.1	21.2	19.65	---	0.70	0.54	2.19	0.77	---	---	56
	16:08	28.651		---	---	0.06	---	11.20	---	---	
6	0.2	24.1	18.56	5.94	0.64	0.16	2.55	0.25	7.93	8.51	57
	16:26	28.266		119.	2.15	0.04	0.11	10.70	4.71	2.85	
	1.2	24.1	18.57	5.97	0.76	1.17	2.63	1.53	7.94	7.85	58
	16:26	28.263		120.	2.34	0.07	0.28	---	3.87	2.93	
	4.0	23.4	18.84	---	0.63	0.07	2.39	0.11	---	---	59
	16:26	28.356		---	---	0.07	0.58	---	---	---	
	12.0	22.2	19.29	5.61	0.69	1.19	2.42	1.73	7.86	8.81	60
	16:26	28.525		109.	2.18	0.07	0.14	19.50	5.01	2.85	
7	0.2	24.4	18.40	5.86	0.70	0.54	2.93	0.76	7.93	9.08	61
	16:41	28.159		118.	2.22	0.07	0.20	17.10	4.21	2.77	
	1.2	24.2	18.49	5.94	0.65	0.14	3.24	0.21	7.92	8.93	62
	16:41	28.211		119.	2.55	0.08	0.18	---	4.51	2.88	
	4.5	22.8	19.07	5.93	0.69	0.54	2.63	0.78	7.91	8.33	63
	16:41	28.449		116.	2.46	0.06	0.18	10.70	4.51	2.91	

GREAT BAY ESTUARINE DATA: CRUISE #7 7/21/76

STA #	DEPTH TIME	TEMP SAL	SIGMA-t	OXYGEN % SAT	PO4 TOT PO4	NO3 NO2	SiO4 NH4	NO3/PO4 SUSP Ld	pH CHL a	CARO PHAE	ROW #
1	0.2 12:10	13.4 31.654	23.76	5.97 100.	0.78 ---	1.67 0.13	6.38 1.39	2.15 1.97	7.85 1.60	--- ---	1
	1.2 12:10	--- 31.658	---	--- ---	--- ---	--- ---	--- ---	--- ---	--- ---	--- ---	2
	4.0 12:10	13.2 31.664	23.82	--- ---	0.74 4.82	1.57 0.19	5.77 1.16	2.13 2.26	7.84 2.00	--- 0.04	3
	13.0 12:10	12.4 31.764	24.04	--- ---	0.64 4.86	1.49 0.18	5.78 1.01	2.34 2.11	7.84 ---	--- 3.08	4
1-1	0.2 12:31	15.2 31.402	23.20	5.82 100.	0.84 ---	1.70 0.19	5.92 2.00	2.02 2.31	--- ---	--- ---	5
	1.2 12:31	15.0 31.404	23.24	--- ---	0.86 ---	1.75 0.18	5.83 1.94	2.04 2.63	--- ---	--- ---	6
	4.0 12:31	14.8 31.416	23.29	--- ---	0.81 ---	1.66 0.22	5.89 1.96	2.05 2.86	--- ---	--- ---	7
	14.0 12:31	13.9 31.517	23.56	--- ---	0.80 ---	1.61 0.19	5.90 1.43	2.01 1.74	--- ---	--- ---	8
1-2	0.2 12:51	16.5 31.134	22.70	--- ---	0.95 ---	1.75 0.23	5.78 2.61	1.83 3.11	--- ---	--- ---	9
	1.2 12:51	16.4 31.157	22.75	--- ---	0.90 ---	1.72 0.25	5.88 2.37	1.82 4.75	--- ---	--- ---	10
	4.0 12:51	16.4 30.940	22.59	--- ---	0.96 ---	1.87 0.21	5.84 2.41	1.94 3.35	--- ---	--- ---	11
	12.0 12:51	15.4 31.250	23.04	--- ---	0.90 ---	1.73 0.19	5.83 2.34	1.92 6.20	--- ---	--- ---	12
2	0.2 13:08	17.5 30.930	22.32	5.48 98.7	0.97 6.35	1.83 0.23	5.75 2.94	1.88 4.30	7.87 1.20	--- 1.06	13
	1.2 13:08	17.4 30.937	22.35	--- ---	1.02 3.28	1.87 0.26	5.91 2.79	1.83 4.30	7.85 2.18	--- 0.12	14
	4.0 13:08	17.4 30.933	22.35	--- ---	1.02 ---	1.86 0.25	5.99 2.82	1.82 5.50	--- ---	--- ---	15
	14.0 13:08	16.7 31.041	22.58	--- ---	0.96 8.02	1.82 0.24	5.79 2.55	1.89 10.25	7.83 3.20	--- ---	16
2-1	0.2 13:30	18.5 30.714	21.91	5.40 99.1	1.13 ---	2.21 0.22	5.83 3.05	1.97 7.20	--- ---	--- ---	17
	1.2 13:30	18.4 30.714	21.93	--- ---	1.06 ---	1.86 0.25	6.01 3.10	1.76 4.80	--- ---	--- ---	18
	4.0 13:30	18.3 30.721	21.96	--- ---	1.07 ---	1.86 0.23	5.93 3.10	1.74 4.70	--- ---	--- ---	19
	14.0 13:30	18.2 30.732	21.99	--- ---	1.07 ---	1.87 0.26	6.54 3.08	1.75 5.25	--- ---	--- ---	20
2-2	0.2 13:43	18.7 30.669	21.83	5.32 97.9	1.15 ---	1.92 0.22	6.06 3.14	1.68 5.25	--- ---	--- ---	21
	1.2 13:43	18.6 30.656	21.84	--- ---	1.13 ---	2.08 0.23	5.96 2.95	1.84 5.55	--- ---	--- ---	22

GREAT BAY ESTUARINE DATA: CRUISE #7 7/21/76

STA #	DEPTH / TIME	TEMP / SAL	SIGMA-t	OXYGEN / % SAT	PO4 / TOT PO4	NO3 / NO2	SiO4 / NH4	NO3/PO4 / SUSP Ld	pH / CHL a	CARO / PHAE	ROW #
	4.0	18.6	21.84	---	1.08	2.07	6.00	1.92	---	---	23
	13:43	30.663		---	---	0.25	3.19	5.95	---	---	
	19.0	18.6	21.84	---	1.09	1.89	6.04	1.74	---	---	24
	13:43	30.664		---	---	0.23	2.97	5.95	---	---	
2-4	0.2	20.0	21.26	5.09	1.25	1.82	6.22	1.46	---	---	25
	14:10	30.366		95.9	---	0.26	3.34	7.05	---	---	
	1.2	20.0	21.27	---	1.18	1.68	6.22	1.42	---	---	26
	14:10	30.359		---	---	0.26	3.18	6.55	---	---	
	4.0	20.0	21.29	---	1.21	1.82	6.13	1.51	---	---	27
	14:10	30.380		---	---	0.23	3.27	6.60	---	---	
	15.0	19.9	21.28	---	1.20	1.75	6.16	1.46	---	---	28
	14:10	30.356		---	---	0.23	3.35	7.30	---	---	
3	0.2	21.3	19.26	5.01	1.67	2.64	9.86	1.59	7.87	---	29
	14:25	28.165		95.4	1.25	0.34	4.08	5.65	5.21	1.80	
	1.2	21.2	19.39	---	1.60	2.45	9.34	1.51	7.85	---	30
	14:25	28.302		---	5.00	0.36	4.32	2.63	5.61	0.56	
	4.0	19.9	21.12	---	1.25	1.93	6.77	1.55	---	---	31
	14:25	30.137		---	---	0.24	3.41	6.15	---	---	
	7.0	19.4	21.40	---	1.21	1.93	6.64	1.60	7.86	---	32
	14:25	30.350		---	4.00	0.24	3.50	7.75	2.40	0.68	
3-1	0.2	22.3	17.45	4.68	2.06	4.00	12.4	1.94	---	---	33
	14:34	26.119		89.7	---	0.36	---	1.30	---	---	
	1.2	22.0	17.39	---	1.98	3.69	12.8	1.86	---	---	34
	14:34	25.941		---	---	0.37	---	2.65	---	---	
	4.0	20.6	19.39	---	1.50	2.17	8.28	1.45	---	---	35
	14:34	28.093		---	---	0.32	4.67	6.55	---	---	
	7.0	20.1	20.85	---	1.49	2.00	8.24	1.34	---	---	36
	14:34	29.848		---	---	0.28	---	6.40	---	---	
3-2	0.2	20.9	20.86	5.05	1.29	1.62	6.30	1.26	---	---	37
	14:51	30.147		96.6	---	0.23	2.86	4.30	---	---	
	1.2	20.7	20.97	---	1.25	1.55	6.21	1.24	---	---	38
	14:51	30.217		---	---	0.23	2.91	6.17	---	---	
	4.0	20.6	21.02	---	---	---	---	---	---	---	39
	14:51	30.244		---	---	---	3.04	9.44	---	---	
	14.0	20.1	21.17	---	1.24	1.71	6.11	1.38	---	---	40
	14:51	30.282		---	---	0.27	3.36	17.00	---	---	
4	0.2	21.0	20.87	5.12	1.28	1.42	6.24	1.11	8.02	---	41
	15:06	30.174		98.0	4.45	0.21	2.86	8.70	4.41	0.08	
	4.0	20.8	20.93	---	1.26	1.48	6.44	1.17	---	---	42
	15:06	30.202		---	---	0.21	2.86	10.55	---	---	
	8.0	20.7	20.97	---	1.27	1.50	6.78	1.18	7.91	---	43
	15:06	30.212		---	4.72	0.21	2.95	9.75	4.01	---	
5	0.2	21.4	20.57	5.05	1.50	1.57	7.09	1.04	7.92	---	44
	15:22	29.932		97.4	9.88	0.19	2.79	6.17	4.01	3.84	

GREAT BAY ESTUARINE DATA: CRUISE #7 7/21/76

STA #	DEPTH TIME	TEMP SAL	SIGMA-t	OXYGEN % SAT	PO4 TOT PO4	NO3 NO2	SiO4 NH4	NO3/PO4 SUSP Ld	pH CHL a	CARO PHAE	ROW #
	1.2	21.5	20.54	---	1.42	1.28	6.91	0.90	7.92	---	45
	15:22	29.919		---	3.30	0.22	2.78	4.75	6.41	0.88	
	4.0	21.2	20.74	---	1.32	1.26	6.55	0.95	---	---	46
	15:22	30.096		---	---	0.19	2.61	5.70	---	---	
	16.0	20.6	21.02	---	1.25	1.47	6.72	1.18	7.91	---	47
	15:22	30.254		---	2.92	0.25	2.79	14.47	2.40	1.52	
S-1	0.2	21.8	20.43	5.17	1.37	0.94	6.70	0.68	---	---	48
	15:41	29.896		100.	---	0.21	1.84	5.15	---	---	
	1.2	21.7	20.53	---	1.29	0.97	6.62	0.75	---	---	49
	15:41	29.990		---	---	0.18	2.20	4.25	---	---	
	4.0	21.6	20.61	---	1.30	1.06	6.68	0.81	---	---	50
	15:41	30.033		---	---	0.15	2.39	4.50	---	---	
	12.5	21.0	20.86	---	1.34	1.53	6.77	1.14	---	---	51
	15:41	30.182		---	---	0.20	3.06	7.30	---	---	
6	0.2	22.0	20.37	5.01	---	---	---	---	7.88	---	52
	15:58	29.884		97.6	2.99	---	2.26	2.63	7.21	0.92	
	1.2	22.1	20.35	---	1.42	0.80	7.19	0.56	7.92	---	53
	15:58	29.880		---	4.22	0.15	2.16	9.20	9.21	1.44	
	4.0	22.0	20.38	---	1.38	0.80	7.19	0.58	---	---	54
	15:58	29.905		---	---	0.17	2.24	---	---	---	
	12.0	21.7	20.53	---	1.35	1.00	7.15	0.74	7.91	---	55
	15:58	29.995		---	3.16	0.20	2.54	6.00	2.80	2.24	
7	0.2	22.3	20.16	5.02	1.43	0.65	7.48	0.45	7.92	---	56
	16:13	29.695		98.2	6.12	0.14	2.08	6.00	9.61	1.04	
	1.2	22.3	20.13	---	1.50	0.67	7.38	0.45	7.93	---	57
	16:13	29.673		---	7.72	0.14	2.49	8.10	5.21	0.40	
	4.0	22.3	20.25	---	1.44	0.66	7.17	0.45	7.93	---	58
	16:13	29.831		---	8.51	0.13	2.35	4.70	5.21	---	

GREAT BAY ESTUARINE DATA: CRUISE #8 8/17/76

STA #	DEPTH / TIME	TEMP / SAL	SIGMA-t	OXYGEN / % SAT	PO4 / TOT PO4	NO3 / NO2	SiO4 / NH4	NO3/PO4 / SUSP Ld	pH / CHL a	CARO / PHAE	ROW #
1	0.2	15.6	23.17	5.74	1.12	3.58	10.8	3.19	7.90	1.99	1
	9:33	31.480		100.	4.01	0.34	0.45	---	1.70	1.59	
	1.2	14.2	23.49	5.56	0.94	3.55	8.59	3.77	7.93	3.11	2
	9:33	31.515		94.1	3.83	0.35	0.41	1.94	2.20	0.95	
	4.0	14.0	23.54	---	0.93	3.58	8.59	3.84	---	---	3
	9:33	31.519		---	---	0.34	---	---	---	---	
	12.0	14.0	23.72	5.56	0.85	3.55	8.07	4.17	7.97	2.74	4
	9:33	31.760		93.9	8.92	0.33	0.32	0.84	1.70	1.38	
1-1	0.2	18.1	22.78	---	0.95	3.57	8.18	3.76	---	---	5
	9:54	31.732		---	---	0.33	---	1.98	---	---	
	1.2	16.0	22.71	---	1.01	3.79	8.70	3.74	---	---	6
	9:54	30.999		---	---	0.38	---	4.11	---	---	
	4.0	15.6	22.80	---	0.99	3.84	9.22	3.94	---	---	7
	9:54	31.004		---	---	0.37	---	1.81	---	---	
	15.0	15.0	22.97	---	0.96	3.81	9.22	3.95	---	---	8
	9:54	31.047		---	---	0.37	---	10.24	---	---	
1-2	0.2	20.6	21.32	---	1.07	4.20	10.3	3.97	---	---	9
	10:11	30.652		---	---	0.43	---	0.57	---	---	
	1.2	18.1	21.60	---	1.21	4.15	10.2	3.43	---	---	10
	10:11	30.190		---	---	0.41	---	0.00	---	---	
	4.0	17.0	21.91	---	1.18	4.20	10.2	3.56	---	---	11
	10:11	30.246		---	---	0.42	---	---	---	---	
	17.0	16.8	22.01	---	1.06	4.09	9.94	3.98	---	---	12
	10:11	30.327		---	---	0.41	---	---	---	---	
2	0.2	20.9	20.55	5.25	1.08	4.33	10.9	4.08	7.86	3.11	13
	10:26	29.740		100.	14.15	0.44	0.78	1.50	1.00	2.43	
	1.2	18.0	21.26	5.23	1.12	4.33	10.9	3.89	7.91	3.45	14
	10:26	29.701		94.5	2.87	0.45	0.80	---	1.00	2.78	
	4.0	17.5	21.38	---	1.08	4.32	10.8	3.99	---	---	15
	10:26	29.714		---	---	0.44	---	---	---	---	
	15.0	17.3	21.54	5.20	1.15	4.27	10.6	3.71	7.93	2.81	16
	10:26	29.856		92.7	6.09	0.44	0.83	---	1.00	2.08	
2-1	0.2	20.5	20.37	---	1.21	4.44	11.4	3.65	---	---	17
	10:49	29.354		---	---	0.46	---	---	---	---	
	1.2	19.6	20.38	---	1.25	4.50	11.5	3.61	---	---	18
	10:49	29.071		---	---	0.46	---	2.42	---	---	
	4.0	19.0	20.57	---	1.15	4.47	11.5	3.97	---	---	19
	10:49	29.120		---	---	0.45	---	0.30	---	---	
	18.0	18.8	20.74	---	1.12	4.44	11.6	4.02	---	---	20
	10:49	29.279		---	---	0.47	---	---	---	---	
2-2	0.2	22.3	19.47	---	1.13	4.47	11.9	4.00	---	---	21
	11:03	28.802		---	---	0.48	---	---	---	---	
	1.2	19.7	20.19	---	1.22	4.49	12.0	3.69	---	---	22
	11:03	28.852		---	---	0.47	---	1.11	---	---	

GREAT BAY ESTUARINE DATA: CRUISE #8 8/17/76

STA #	DEPTH TIME	TEMP SAL	SIGMA-t	OXYGEN % SAT	PO4 TOT PO4	NO3 NO2	SiO4 NH4	NO3/PO4 SURP Ld	pH CHL a	CARO PHAE	ROW #
	4.0	19.0	20.42	---	1.15	4.58	11.9	4.03	---	---	23
	11:03	28.921		---	---	0.47	---	2.45	---	---	
	19.0	19.0	20.46	---	1.11	4.53	11.8	4.17	---	---	24
	11:03	28.973		---	---	0.48	---	---	---	---	
2-3	0.2	21.0	19.67	---	1.28	4.47	12.0	3.50	---	---	25
	11:19	28.606		---	---	0.48	---	0.00	---	---	
	1.2	19.9	19.92	---	1.17	4.60	12.3	4.01	---	---	26
	11:19	28.560		---	---	0.48	---	0.21	---	---	
	4.0	19.8	20.02	---	1.22	4.51	12.3	3.70	---	---	27
	11:19	28.661		---	---	0.47	---	1.92	---	---	
	18.0	19.0	20.26	---	1.21	4.50	12.3	3.72	---	---	28
	11:19	28.716		---	---	0.46	---	1.46	---	---	
2-4	0.2	20.8	19.38	---	1.16	4.52	12.8	3.96	---	---	29
	11:43	28.153		---	---	0.50	---	---	---	---	
	1.2	20.2	19.42	---	1.16	4.59	13.4	4.02	---	---	30
	11:43	27.999		---	---	0.51	---	4.98	---	---	
	\4.0	20.0	19.50	---	1.17	4.69	13.1	4.07	---	---	31
	11:43	28.041		---	---	0.50	---	0.00	---	---	
	12.0	20.0	19.56	---	1.26	4.56	12.9	3.61	---	---	32
	11:43	28.115		---	---	0.49	---	---	---	---	
3	0.2	21.7	15.23	4.96	1.53	6.62	28.5	4.38	7.85	10.88	33
	11:57	22.967		92.3	6.25	0.62	1.12	---	6.31	5.11	
	1.2	20.5	19.35	5.11	1.39	5.28	19.3	3.79	7.87	6.83	34
	11:57	28.006		95.8	18.90	0.54	0.96	---	3.70	3.23	
	4.0	19.8	19.48	---	1.29	4.63	14.1	3.58	---	---	35
	11:57	27.941		---	---	0.49	---	---	---	---	
	7.0	19.3	19.73	4.96	1.23	4.70	13.9	3.88	7.87	2.66	36
	11:57	28.109		91.0	4.24	0.49	1.01	4.88	1.00	2.01	
3-1	0.2	24.0	11.93	---	1.28	7.74	37.9	6.04	---	---	37
	12:12	19.388		---	---	0.66	---	---	---	---	
	1.2	21.7	13.75	---	1.84	7.31	34.6	3.98	---	---	38
	12:12	20.998		---	---	0.65	---	1.88	---	---	
	4.0	19.8	19.54	---	1.21	4.68	14.0	3.92	---	---	39
	12:12	28.030		---	---	0.51	---	2.03	---	---	
	6.0	---	---	---	1.23	4.38	12.1	3.58	---	---	40
	12:12	29.149		---	---	0.46	---	2.49	---	---	
3-2	0.2	21.2	19.18	---	1.21	4.11	12.2	3.44	---	---	41
	12:32	28.031		---	---	0.50	---	---	---	---	
	1.2	21.0	19.23	---	1.12	4.13	12.1	3.72	---	---	42
	12:32	28.020		---	---	0.48	---	2.14	---	---	
	4.0	20.3	19.53	---	1.33	4.32	12.1	3.25	---	---	43
	12:32	28.186		---	---	0.49	---	---	---	---	
	9.0	---	---	---	0.94	3.43	---	3.64	---	---	44
	12:32	31.732		---	---	---	---	---	---	---	

GREAT BAY ESTUARINE DATA: CRUISE #8 8/17/76

STA #	DEPTH TIME	TEMP SAL	SIGMA-t	OXYGEN % SAT	PO4 TOT PO4	NO3 NO2	SiO4 NH4	NO3/PO4 SUSP Ld	pH CHL a	CARO PHAE	ROW #
4	0.2 12:46	21.3 27.932	19.08	5.09 96.8	1.12 6.11	4.00 0.47	12.0 0.71	3.59 7.32	7.88 2.80	5.10 2.80	45
	1.2 12:46	21.0 27.942	19.17	--- ---	1.19 ---	3.98 0.48	12.0 ---	3.36 ---	--- ---	--- ---	46
	7.0 12:46	20.5 28.019	19.36	4.96 93.0	1.16 6.67	4.16 0.49	12.2 0.96	3.58 ---	7.88 2.20	5.25 3.75	47
5	0.2 13:01	21.7 27.821	18.89	5.15 98.6	1.20 11.22	3.98 0.48	12.4 0.74	3.31 ---	7.87 3.10	5.81 3.27	48
	1.2 13:01	21.2 27.810	19.02	3.39 64.3	1.14 3.91	3.80 0.48	12.3 0.71	3.36 ---	7.84 3.00	5.63 2.81	49
	4.0 13:01	21.0 27.857	19.10	--- ---	1.12 ---	3.78 0.47	12.1 ---	3.39 ---	--- ---	--- ---	50
	9.0 13:01	21.0 27.902	19.14	5.02 94.9	1.13 ---	3.93 0.48	12.1 0.69	3.47 ---	7.90 3.40	6.04 2.97	51
5-1	0.2 13:17	21.9 27.606	18.68	--- ---	1.10 ---	3.41 0.46	11.8 ---	3.12 ---	--- ---	--- ---	52
	1.2 13:17	21.8 27.605	18.70	--- ---	1.20 ---	3.45 0.47	11.9 ---	2.86 ---	--- ---	--- ---	53
	4.0 13:17	21.2 27.757	18.98	--- ---	1.33 ---	3.69 0.47	11.8 ---	2.76 ---	--- ---	--- ---	54
	12.0 13:17	20.8 27.963	19.24	--- ---	1.25 ---	4.31 0.49	12.1 ---	3.44 ---	--- ---	--- ---	55
6	0.2 13:32	22.1 27.303	18.39	5.31 102.	1.19 9.35	3.18 0.46	12.4 0.29	2.71 0.86	7.90 7.51	9.60 1.67	56
	1.2 13:32	21.9 27.307	18.45	5.49 105.	1.19 10.03	3.10 0.46	12.4 0.25	2.64 ---	7.93 6.51	9.90 3.79	57
	4.0 13:32	21.6 27.414	18.61	--- ---	1.47 ---	3.25 0.47	12.2 ---	2.21 2.82	--- ---	--- ---	58
	11.0 13:32	21.5 27.574	18.76	5.17 98.5	1.15 3.78	3.24 0.46	12.1 0.63	2.83 ---	7.89 3.60	6.94 3.26	59
7	0.2 13:46	22.3 26.681	17.87	5.49 106.	1.24 6.30	3.26 0.48	13.7 0.49	2.63 ---	7.87 3.40	6.08 2.83	60
	1.2 13:46	22.0 26.985	18.18	5.53 106.	1.21 10.57	2.72 0.45	13.1 0.37	2.27 ---	7.92 5.61	9.30 4.42	61
	4.0 13:46	21.8 27.249	18.43	5.37 103.	1.37 10.65	3.06 0.44	12.8 0.51	2.24 7.17	7.90 3.60	7.50 4.53	62

GREAT BAY ESTUARINE DATA: CRUISE #9 9/15/76

STA #	DEPTH TIME	TEMP SAL	SIGMA-t	OXYGEN % SAT	PO4 TOT PO4	NO3 NO2	SiO4 NH4	NO3/PO4 SUSP Ld	pH CHL a	CARO PHAE	ROW #
1	0.2 9:10	13.1 32.263	24.29	5.85 97.3	0.79 1.85	1.51 0.19	6.49 1.14	1.92 0.70	7.97 7.41	7.88 1.77	1
	1.2 9:10	13.0 32.267	24.32	5.89 97.7	0.78 2.58	1.51 0.19	6.45 1.33	1.95 ---	7.86 6.51	7.39 2.04	2
	4.0 9:10	13.0 32.268	24.32	--- ---	0.73 ---	1.60 0.10	6.37 1.62	2.20 0.15	--- ---	--- ---	3
	13.0 9:10	12.6 32.336	24.45	5.93 97.6	--- 2.25	--- 0.14	6.41 1.26	--- 1.10	7.99 5.01	6.75 2.49	4
1-1	0.2 9:30	13.8 32.124	24.05	--- ---	0.87 ---	2.09 0.22	7.72 0.93	2.41 0.50	--- ---	--- ---	5
	1.2 9:30	13.6 32.120	24.08	--- ---	0.79 ---	2.11 0.22	6.80 0.97	2.68 ---	--- ---	--- ---	6
	4.0 9:30	13.4 32.168	24.16	--- ---	0.80 ---	1.91 0.22	6.62 1.09	2.39 0.45	--- ---	--- ---	7
	13.0 9:30	12.9 32.240	24.32	--- ---	0.69 ---	1.52 0.17	6.80 1.22	2.22 1.90	--- ---	--- ---	8
1-2	0.2 9:50	14.8 31.872	23.64	--- ---	0.95 ---	3.03 0.28	7.54 1.80	3.19 ---	--- ---	--- ---	9
	1.2 9:50	14.4 31.866	23.72	--- ---	0.91 ---	2.94 0.28	7.67 1.91	3.23 ---	--- ---	--- ---	10
	4.0 9:50	14.3 31.866	23.74	--- ---	1.01 ---	3.01 0.28	7.58 2.18	2.98 ---	--- ---	--- ---	11
	13.0 9:50	14.1 31.857	23.78	--- ---	0.94 ---	3.04 0.28	7.54 2.01	3.24 ---	--- ---	--- ---	12
2	0.2 10:03	15.0 31.670	23.44	5.58 96.1	1.04 2.17	3.63 0.32	7.66 1.43	3.49 1.55	7.92 12.71	6.38 0.00	13
	1.2 10:03	14.9 31.670	23.47	5.58 95.9	1.02 2.21	3.56 0.32	7.88 1.74	3.49 3.20	7.91 4.81	6.79 2.76	14
	4.0 10:03	14.8 31.671	23.49	--- ---	1.02 ---	3.55 0.33	7.80 1.56	3.47 ---	--- ---	--- ---	15
	13.0 10:03	14.8 31.676	23.49	5.64 96.8	1.03 3.79	3.82 0.23	7.88 2.32	3.71 0.65	7.92 4.31	6.08 2.63	16
2-1	0.2 10:23	--- 31.479	---	--- ---	1.00 ---	4.03 0.35	8.28 1.71	4.03 ---	--- ---	--- ---	17
	1.2 10:23	14.3 31.477	23.44	--- ---	0.95 ---	3.95 0.36	8.01 1.96	4.15 ---	--- ---	--- ---	18
	4.0 10:23	15.2 31.480	23.26	--- ---	1.03 ---	3.89 0.36	8.15 2.00	3.77 ---	--- ---	--- ---	19
	13.0 10:23	15.0 31.492	23.31	--- ---	1.00 ---	3.99 0.35	8.15 ---	3.99 ---	--- ---	--- ---	20
2-2	0.2 10:34	15.6 31.359	23.07	--- ---	1.20 ---	4.04 0.37	8.20 1.93	3.36 ---	--- ---	--- ---	21
	1.2 10:34	15.4 31.401	23.15	--- ---	1.07 ---	4.08 0.37	8.28 1.83	3.80 ---	--- ---	--- ---	22

GREAT BAY ESTUARINE DATA: CRUISE #9 9/15/76

STA #	DEPTH / TIME	TEMP / SAL	SIGMA-t	OXYGEN / % SAT	PO4 / TOT PO4	NO3 / NO2	SiO4 / NH4	NO3/PO4 / SUSP Ld	pH / CHL a	CARO / PHAE	ROW #
	4.0	15.3	23.16	---	1.14	4.13	8.18	3.62	---	---	23
	10:34	31.389		---	---	0.37	1.90	---	---	---	
	13.0	15.1	23.25	---	1.15	4.07	8.17	3.53	---	---	24
	10:37	31.440		---	---	0.38	1.81	---	---	---	
2-3	0.2	15.9	22.94	---	1.10	4.34	8.37	3.94	---	---	25
	10:45	31.272		---	---	0.38	2.34	0.75	---	---	
	1.2	15.8	22.96	---	1.36	4.86	8.45	3.56	---	---	26
	10:45	31.270		---	---	0.40	1.72	---	---	---	
	4.0	15.7	22.98	---	1.11	4.38	8.63	3.93	---	---	27
	10:45	31.268		---	---	0.38	2.53	0.65	---	---	
	13.0	15.2	23.14	---	1.04	4.12	8.42	3.96	---	---	28
	10:45	31.327		---	---	0.39	2.43	1.15	---	---	
2-4	0.2	16.8	22.61	---	1.31	4.56	8.81	0.35	---	---	29
	11:08	31.111		---	---	0.42	1.88	---	---	---	
	1.2	16.5	22.63	---	1.26	4.68	8.90	3.72	---	---	30
	11:08	31.048		---	---	0.41	2.37	---	---	---	
	4.0	16.2	22.72	---	1.25	4.61	9.21	3.70	---	---	31
	11:08	31.074		---	---	0.42	1.88	---	---	---	
	13.0	16.1	22.78	---	1.43	4.63	8.80	3.25	---	---	32
	11:08	31.124		---	---	0.43	1.76	---	---	---	
3	0.2	17.6	20.62	5.42	1.55	7.20	13.2	4.65	7.88	5.18	33
	11:20	28.736		96.6	3.72	0.58	4.36	2.60	3.60	2.28	
	1.2	15.3	21.06	5.52	1.55	6.97	13.0	4.50	7.85	5.78	34
	11:20	28.643		93.9	3.67	0.58	3.93	1.70	4.21	2.52	
	4.0	15.2	22.81	5.42	---	---	9.28	---	7.88	5.93	35
	11:20	30.901		93.3	3.05	0.44	2.24	1.25	4.21	2.52	
3-1	0.2	18.8	18.46	---	1.98	---	17.2	---	---	---	36
	11:30	26.279		---	---	0.79	7.91	0.60	---	---	
	1.2	18.0	22.22	---	1.77	---	15.2	---	---	---	37
	11:30	30.969		---	---	0.67	6.67	---	---	---	
	4.0	17.0	21.79	---	1.38	5.90	10.8	4.27	---	---	38
	11:30	30.092		---	---	0.49	3.19	7.45	---	---	
3-2	0.2	17.0	23.24	---	1.16	5.29	9.20	3.89	---	---	39
	11:45	30.992		---	---	0.43	1.38	1.05	---	---	
	1.2	16.8	22.51	---	1.24	4.57	9.17	3.70	---	---	40
	11:45	30.969		---	---	0.41	1.25	---	---	---	
	4.0	16.6	22.60	---	---	---	---	---	---	---	41
	11:45	31.030		---	---	---	---	---	---	---	
	9.0	16.4	22.67	---	1.11	4.57	8.73	4.10	---	---	42
	11:45	31.063		---	---	0.43	2.19	1.45	---	---	
4	0.2	18.6	21.05	5.46	1.46	5.18	15.5	2.99	7.81	8.10	43
	12:04	29.616		100.	2.21	0.40	6.25	0.45	6.01	3.10	
	1.2	17.2	21.99	5.70	1.38	4.37	11.9	3.16	7.82	6.98	44
	12:04	30.422		102.	4.90	0.42	1.68	0.80	4.61	3.17	

GREAT BAY ESTUARINE DATA: CRUISE #9 9/15/76

STA #	DEPTH TIME	TEMP SAL	SIGMA-t	OXYGEN % SAT	PO4 TOT PO4	NO3 NO2	SiO4 NH4	NO3/PO4 SUSP Ld	pH CHL a	CARO PHAE	ROW #
5	0.2 12:19	15.2 30.815	22.75	5.68 97.7	1.18 1.75	4.29 0.45	9.10 1.10	3.65 0.75	7.91 5.38	7.63 3.67	45
	1.2 12:19	17.4 30.834	22.26	5.77 104.	--- 1.91	--- 0.40	8.89 1.65	--- 1.60	7.86 5.61	6.90 3.38	46
	4.0 12:19	17.2 30.841	22.31	--- ---	1.17 ---	4.57 0.41	8.89 7.25	3.92 1.60	--- ---	--- ---	47
	7.6 12:19	17.2 30.843	22.32	5.70 102.	1.19 5.63	4.56 0.41	9.10 1.71	3.84 1.10	7.92 5.21	6.98 2.85	48
5-1	0.2 12:31	18.2 30.731	21.99	--- ---	1.32 ---	4.18 0.40	9.19 0.58	3.17 ---	--- ---	--- ---	49
	1.2 12:31	18.0 30.746	22.05	--- ---	1.14 ---	4.04 0.41	8.97 1.00	3.56 ---	--- ---	--- ---	50
	4.0 12:31	17.7 30.800	22.17	--- ---	1.18 ---	4.06 0.62	8.97 1.00	3.45 ---	--- ---	--- ---	51
	13.0 12:31	17.3 30.882	22.32	--- ---	1.24 ---	4.67 0.43	9.32 1.42	3.78 ---	--- ---	--- ---	52
6	0.2 12:46	18.8 30.635	21.77	5.91 109.	1.24 2.66	3.27 0.41	9.19 0.67	2.65 0.95	7.87 7.21	8.29 2.60	53
	1.2 12:46	18.2 30.637	21.92	5.87 107.	1.13 2.84	3.59 0.40	9.36 0.66	3.19 1.15	7.91 6.71	8.06 2.75	54
	4.0 12:46	18.0 30.614	21.95	--- ---	1.13 ---	3.56 0.41	9.27 0.67	3.16 0.55	--- ---	--- ---	55
	13.0 12:46	18.0 30.647	21.98	5.74 104.	--- 5.63	--- ---	--- 1.06	--- 0.00	7.92 5.81	7.58 3.16	56
7	0.2 13:01	19.1 30.269	21.42	5.78 107.	--- 3.99	--- ---	--- ---	--- 0.80	7.84 4.81	6.38 2.90	57
	1.2 13:01	19.9 30.256	21.21	5.89 111.	1.32 2.49	3.69 0.42	10.4 1.92	2.80 2.40	7.86 5.31	7.09 2.89	58
	4.0 13:01	19.4 30.448	21.48	5.93 111.	1.17 3.70	3.22 0.41	9.63 1.59	2.76 0.70	7.87 5.01	7.09 3.33	59

GREAT BAY ESTUARINE DATA: CRUISE #10 10/19/76

STA #	DEPTH / TIME	TEMP / SAL	SIGMA-t	OXYGEN / % SAT	PO4 / TOT PO4	NO3 / NO2	SiO4 / NH4	NO3/PO4 / SUSP Ld	pH / CHL a	CARO / PHAE	ROW #
1	0.2	10.5	25.01	5.32	1.23	9.86	12.6	7.99	7.73	0.90	1
	13:27	32.564		83.8	2.83	0.37	1.83	1.27	0.70	0.14	
	1.2	10.7	24.98	5.36	1.24	9.84	12.6	7.91	7.79	1.09	2
	13:27	32.565		84.8	2.10	0.37	1.72	1.63	0.90	0.01	
	4.0	10.4	25.02	---	1.25	9.78	12.7	7.80	---	---	3
	13:27	32.559		---	---	0.35	2.06	1.17	---	---	
	15.0	10.4	25.11	5.36	1.21	10.00	12.8	8.25	7.83	1.13	4
	13:27	32.668		84.3	2.33	0.34	1.56	1.63	0.80	0.32	
1-1	0.2	10.2	24.79	---	1.26	9.60	---	7.64	---	---	5
	13:46	32.217		---	---	---	2.35	1.90	---	---	
	1.2	10.2	24.78	---	1.27	9.55	---	7.54	---	---	6
	13:46	32.202		---	---	---	2.51	1.97	---	---	
	4.0	10.2	24.83	---	1.28	9.54	12.9	7.48	---	---	7
	13:46	32.272		---	---	0.39	2.43	1.43	---	---	
	15.0	10.1	24.89	---	1.27	9.60	12.6	7.58	---	---	8
	13:46	32.324		---	---	0.39	2.68	1.00	---	---	
1-2	0.2	11.0	24.23	---	1.34	9.14	13.3	6.82	---	---	9
	14:04	31.676		---	---	0.45	3.23	---	---	---	
	1.4	11.1	24.11	---	1.36	8.94	13.1	6.57	---	---	10
	14:04	31.539		---	---	0.47	3.46	---	---	---	
	4.0	11.0	24.13	---	1.34	9.19	13.1	6.85	---	---	11
	14:04	31.550		---	---	0.46	3.28	---	---	---	
	15.0	10.8	24.20	---	1.38	9.02	13.0	6.53	---	---	12
	14:04	31.583		---	---	0.45	3.43	---	---	---	
2	0.2	11.0	23.97	5.63	1.45	8.85	13.1	6.09	7.76	1.09	13
	14:17	31.343		89.0	2.33	0.49	3.77	3.30	0.30	0.82	
	1.2	11.0	23.96	5.59	1.38	8.76	13.2	6.33	7.74	1.20	14
	14:17	31.328		88.3	---	0.49	3.64	3.75	0.60	0.52	
	4.0	11.0	23.98	---	1.34	8.75	13.2	6.52	---	---	15
	14:17	31.349		---	---	0.50	3.73	3.70	---	---	
	15.0	11.0	23.97	5.58	1.33	8.87	13.4	6.65	7.79	1.20	16
	14:17	31.340		88.2	2.21	0.48	3.77	5.65	0.20	1.13	
2-1	0.2	11.0	23.87	---	1.38	8.82	13.4	6.37	---	---	17
	14:36	31.212		---	---	0.50	4.19	---	---	---	
	1.2	11.0	23.69	---	1.40	8.29	13.5	5.94	---	---	18
	14:36	30.971		---	---	0.53	4.19	---	---	---	
	4.0	11.0	23.72	---	1.45	8.56	13.4	5.93	---	---	19
	14:36	31.013		---	---	0.52	4.39	---	---	---	
	15.0	11.0	23.77	---	---	---	---	---	---	---	20
	14:36	31.074		---	---	---	4.02	---	---	---	
2-2	0.2	11.0	23.65	---	1.36	8.57	13.6	6.32	---	---	21
	14:48	31.923		---	---	0.51	4.31	---	---	---	
	1.4	11.0	23.65	---	1.48	8.56	13.6	5.80	---	---	22
	14:48	30.927		---	---	0.53	5.07	---	---	---	

GREAT BAY ESTUARINE DATA: CRUISE #10 10/19/76

STA #	DEPTH TIME	TEMP SAL	SIGMA-t	OXYGEN % SAT	PO4 TOT PO4	NO3 NO2	SiO4 NH4	NO3/PO4 SUSP Ld	pH CHL a	CARO PHAE	ROW #
	4.0	11.0	23.67	---	1.38	8.37	13.4	6.08	---	---	23
	14:48	30.951		---	---	0.52	5.05	---	---	---	
2-4	0.2	11.0	23.29	---	1.41	7.87	14.1	5.58	---	---	24
	15:15	30.464		---	---	0.54	5.14	7.40	---	---	
	1.2	10.5	23.43	---	1.40	7.65	13.9	5.47	---	---	25
	15:15	30.530		---	---	0.57	5.14	5.75	---	---	
	4.0	10.5	23.42	---	1.43	7.78	13.8	5.45	---	---	26
	15:15	30.525		---	---	0.57	5.09	6.60	---	---	
	13.0	10.5	23.42	---	1.38	7.58	13.9	5.50	---	---	27
	15:15	30.519		---	---	0.58	5.14	6.35	---	---	
3	0.2	11.0	20.35	5.93	1.75	8.81	20.0	5.05	7.82	1.58	28
	15:27	26.673		91.0	2.21	0.69	9.74	2.80	0.60	1.01	
	1.2	11.0	21.00	5.91	1.74	8.53	19.7	4.90	7.82	1.58	29
	15:27	27.503		91.2	2.84	0.70	10.12	4.70	0.40	1.14	
	4.0	11.0	22.53	---	1.58	7.94	15.8	5.04	---	---	30
	15:27	29.478		---	---	0.61	6.95	6.10	---	---	
	5.0	11.0	22.77	5.79	---	---	15.0	---	7.79	1.54	31
	15:27	29.793		90.6	2.48	0.59	6.56	6.60	0.90	0.43	
3-1	0.2	10.8	17.39	---	---	---	---	---	---	---	32
	15:37	22.805		---	---	---	12.18	3.70	---	---	
	1.2	11.0	18.46	---	---	---	---	---	---	---	33
	15:37	24.231		---	---	---	11.86	---	---	---	
	4.0	11.0	21.32	---	---	---	---	---	---	---	34
	15:37	27.922		---	---	---	8.47	0.60	---	---	
3-2	0.2	10.0	23.29	---	1.42	7.19	14.7	5.06	---	---	35
	15:48	30.245		---	---	0.55	6.46	2.05	---	---	
	1.2	10.2	23.24	---	1.46	7.15	14.7	4.89	---	---	36
	15:48	30.222		---	---	0.71	6.68	---	---	---	
	4.0	10.2	23.24	---	---	---	---	---	---	---	37
	15:48	30.228		---	---	---	6.73	9.60	---	---	
	15.0	10.2	---	---	---	---	---	---	---	---	38
	15:48	---		---	---	---	6.32	---	---	---	
4	0.2	10.8	22.93	6.19	---	---	---	---	7.81	1.80	39
	16:06	29.947		96.6	2.46	---	6.96	6.80	0.80	0.95	
	1.8	10.8	22.84	6.30	---	---	---	---	7.84	2.51	40
	16:06	29.842		98.2	2.59	---	6.81	6.95	0.80	1.65	
5	0.2	10.2	23.11	5.96	---	---	---	---	7.84	1.99	41
	16:24	30.060		91.8	2.76	---	9.91	9.10	0.70	1.19	
	1.2	10.2	23.13	6.04	---	---	---	---	7.84	1.91	42
	16:24	30.083		93.1	3.30	---	8.55	8.35	2.20	0.00	
	4.0	10.2	23.15	6.02	---	---	---	---	7.84	2.29	43
	16:24	30.105		92.8	2.85	---	7.01	16.60	0.90	1.06	
5-1	0.2	10.0	23.07	---	---	---	---	---	---	---	44
	16:35	29.963		---	---	---	7.21	24.85	---	---	

GREAT BAY ESTUARINE DATA: CRUISE #10 10/19/76

STA #	DEPTH TIME	TEMP SAL	SIGMA-t	OXYGEN % SAT	PO4 TOT PO4	NO3 NO2	SiO4 NH4	NO3/PO4 SUSP Ld	pH CHL a	CARO PHAE	ROW #
	1.2	10.0	23.07	---	---	---	---	---	---	---	45
	16:35	29.965		---	---	---	7.05	16.75	---	---	
	4.0	10.0	23.12	---	---	---	---	---	---	---	46
	16:35	30.021		---	---	---	7.00	---	---	---	
	12.0	10.0	23.16	---	1.73	6.66	15.4	3.84	---	---	47
	16:35	30.085		---	---	0.57	6.88	34.10	---	---	
6	0.2	9.8	22.86	6.22	---	---	---	---	7.86	2.91	48
	16:52	29.650		94.7	2.73	---	7.63	32.70	1.14	1.34	
	1.2	10.0	22.84	6.22	---	---	---	---	7.85	3.26	49
	16:52	29.671		95.2	2.75	---	7.71	17.65	0.80	2.24	
	4.0	10.0	22.87	---	---	---	---	---	---	---	50
	16:52	29.700		---	---	---	7.75	17.25	---	---	
	13.0	10.0	22.92	6.19	---	---	---	---	7.85	3.86	51
	16:52	29.773		94.8	3.09	---	7.68	36.30	0.80	2.56	
7	0.2	9.0	22.32	6.51	---	---	---	---	7.87	3.30	52
	17:09	28.808		96.9	3.36	---	8.78	21.15	2.17	0.79	
	1.2	9.0	22.35	6.50	---	---	---	---	7.85	3.30	53
	17:09	28.836		96.7	2.94	---	8.89	16.75	1.03	1.85	
	4.0	9.1	22.58	6.41	---	---	---	---	7.83	4.33	54
	17:09	29.152		95.8	3.07	---	8.33	19.70	1.03	2.73	

GREAT BAY ESTUARINE DATA: CRUISE #11 11/16/76

STA #	DEPTH / TIME	TEMP / SAL	SIGMA-t	OXYGEN / % SAT	PO4 / TOT PO4	NO3 / NO2	SiO4 / NH4	NO3/PO4 / SUSP Ld	pH / CHL a	CARO / PHAE	ROW #
1	0.2	7.5	25.43	5.84	1.29	9.87	13.9	7.62	8.00	0.60	1
	10:41	32.503		86.0	3.15	0.24	1.11	1.80	0.70	---	
	1.2	7.5	25.43	5.86	1.24	9.78	13.9	7.86	7.99	0.90	2
	10:41	32.506		86.3	3.07	0.31	1.13	1.85	0.87	---	
	4.0	7.5	25.43	---	1.28	10.70	13.6	8.33	---	---	3
	10:41	32.510		---	---	0.12	0.97	0.95	---	---	
	15.0	7.5	25.50	5.86	1.33	9.54	13.3	7.15	8.03	0.90	4
	10:41	32.591		86.3	3.65	0.24	1.04	1.50	0.80	0.04	
1-1	0.2	8.0	25.02	---	1.26	10.04	15.5	7.98	---	---	5
	11:00	32.066		---	---	0.31	1.44	1.85	---	---	
	1.2	7.5	25.12	---	1.23	9.98	15.0	8.13	---	---	6
	11:00	32.108		---	---	0.30	1.23	1.45	---	---	
	4.0	7.5	25.16	---	1.99	11.11	16.6	5.58	---	---	7
	11:00	32.165		---	---	0.03	1.41	2.20	---	---	
	15.0	7.5	25.32	---	1.20	10.01	14.2	8.37	---	---	8
	11:00	32.365		---	---	0.28	1.07	1.00	---	---	
1-2	0.2	7.0	24.51	---	1.30	10.89	17.8	8.38	---	---	9
	11:15	31.251		---	---	0.25	1.93	---	---	---	
	1.2	6.8	24.53	---	1.27	10.43	17.9	8.19	---	---	10
	11:15	31.246		---	---	0.33	1.93	---	---	---	
	4.0	6.8	24.51	---	1.31	10.82	18.0	8.24	---	---	11
	11:15	31.213		---	---	0.30	1.95	---	---	---	
	15.0	6.5	24.58	---	1.25	10.35	17.7	8.28	---	---	12
	11:15	31.252		---	---	0.33	1.84	---	---	---	
2	0.2	6.5	24.04	6.29	1.66	11.11	21.0	6.69	8.02	0.75	13
	11:31	30.576		89.3	3.79	0.12	2.44	2.40	0.70	---	
	1.2	6.2	24.07	6.31	1.50	9.64	20.2	6.43	8.03	0.45	14
	11:31	30.566		89.0	2.53	0.36	2.58	1.35	0.52	---	
	4.0	6.0	24.10	---	1.32	10.93	20.2	8.29	---	---	15
	11:31	30.575		---	---	0.36	2.57	2.15	---	---	
	15.0	6.0	24.12	6.31	1.38	11.34	20.0	8.23	8.04	0.60	16
	11:31	30.593		88.6	3.24	0.34	2.37	2.45	0.70	---	
2-1	0.2	6.0	23.52	---	1.37	11.35	22.7	8.28	---	---	17
	11:58	29.828		---	---	0.34	2.77	---	---	---	
	1.2	6.0	23.50	---	1.38	11.22	22.5	8.11	---	---	18
	11:58	29.808		---	---	0.35	2.88	---	---	---	
	4.0	6.0	23.54	---	1.42	11.68	22.3	8.21	---	---	19
	11:58	29.864		---	---	0.35	2.82	---	---	---	
	15.0	6.0	23.56	---	1.44	11.71	30.9	8.12	---	---	20
	11:58	29.890		---	---	---	3.52	---	---	---	
2-2	0.2	6.0	23.32	---	1.39	11.53	23.7	8.27	---	---	21
	12:08	29.583		---	---	0.33	2.99	---	---	---	
	1.4	6.0	23.31	---	1.37	11.29	23.3	8.22	---	---	22
	12:08	29.570		---	---	0.37	3.18	---	---	---	

GREAT BAY ESTUARINE DATA: CRUISE #11 11/16/76

STA #	DEPTH / TIME	TEMP / SAL	SIGMA-t	OXYGEN / % SAT	PO4 / TOT PO4	NO3 / NO2	SiO4 / NH4	NO3/PO4 / SUSP Ld	pH / CHL a	CARO / PHAE	ROW #
	4.0	6.0	23.31	---	1.36	11.28	23.2	8.26	---	---	23
	12:08	29.566		---	---	0.34	3.19	---	---	---	
	15.0	6.0	23.39	---	1.37	11.88	23.6	8.65	---	---	24
	12:08	29.663		---	---	0.32	3.04	---	---	---	
2-3	0.2	5.5	22.99	---	1.42	11.58	25.1	8.17	---	---	25
	12:24	29.089		---	---	0.35	3.48	1.90	---	---	
	1.2	5.5	22.99	---	1.40	11.68	24.6	8.35	---	---	26
	12:24	29.094		---	---	0.38	3.39	2.80	---	---	
	4.0	5.5	23.03	---	1.41	11.88	24.4	8.44	---	---	27
	12:24	29.138		---	---	0.38	3.28	2.60	---	---	
	15.0	5.5	23.23	---	1.43	11.83	23.2	8.29	---	---	28
	12:24	29.395		---	---	0.35	3.21	3.55	---	---	
2-4	0.2	5.0	22.69	---	1.43	11.71	25.6	8.18	---	---	29
	12:46	28.653		---	---	0.38	5.39	3.40	---	---	
	1.2	5.0	22.63	---	1.40	11.61	26.0	8.28	---	---	30
	12:46	28.565		---	---	0.38	3.75	3.00	---	---	
	4.0	5.0	22.64	---	1.39	11.43	26.2	8.22	---	---	31
	12:46	28.588		---	---	0.37	3.67	3.10	---	---	
	15.0	5.0	22.66	---	1.38	11.78	26.0	8.53	---	---	32
	12:46	28.605		---	---	0.40	3.73	4.10	---	---	
3	0.2	5.0	18.10	7.05	1.82	11.76	43.0	6.45	8.02	0.75	33
	13:02	22.826		91.8	3.93	0.29	8.04	3.45	0.70	---	
	1.2	5.0	19.18	6.93	1.60	11.34	40.5	7.08	8.00	0.90	34
	13:02	24.198		91.0	2.98	0.41	8.99	3.40	0.70	---	
	4.0	5.0	21.99	---	1.44	11.30	28.9	7.86	---	---	35
	13:02	27.764		---	---	0.39	4.34	4.10	---	---	
	15.0	5.0	23.48	6.42	1.39	11.34	23.9	8.13	8.06	0.75	36
	13:02	29.648		87.4	2.34	0.34	2.94	3.10	0.00	0.84	
3-1	0.2	5.0	16.97	---	1.66	11.30	54.5	6.81	---	---	37
	13:15	21.395		---	---	0.45	11.00	4.20	---	---	
	1.2	4.5	18.36	---	1.64	11.39	55.0	6.95	---	---	38
	13:15	23.109		---	---	0.43	8.38	2.85	---	---	
	4.0	4.5	21.57	---	1.25	11.72	30.7	9.37	---	---	39
	13:15	27.166		---	---	0.39	5.13	2.40	---	---	
	7.0	4.5	23.64	---	1.46	11.23	23.1	7.67	---	---	40
	13:15	29.783		---	---	0.34	3.12	2.85	---	---	
3-2	0.2	5.0	22.24	---	1.38	11.91	27.3	8.60	---	---	41
	13:33	28.078		---	---	0.44	4.05	5.50	---	---	
	1.2	4.8	22.27	---	1.38	11.63	27.5	8.40	---	---	42
	13:33	28.091		---	---	0.41	4.05	---	---	---	
	4.0	4.8	22.53	---	1.43	11.88	26.6	8.29	---	---	43
	13:33	28.425		---	---	0.43	4.36	2.90	---	---	
	9.0	4.8	22.61	---	1.41	11.73	26.9	8.31	---	---	44
	13:33	28.517		---	---	---	3.78	---	---	---	

GREAT BAY ESTUARINE DATA: CRUISE #11 11/16/76

STA #	DEPTH TIME	TEMP SAL	SIGMA-t	OXYGEN % SAT	PO4 TOT PO4	NO3 NO2	SiO4 NH4	NO3/PO4 SUSP Ld	pH CHL a	CARO PHAE	ROW #
4	0.2 13:48	5.0 27.121	21.48	7.29 97.6	1.42 2.62	11.26 0.36	28.3 4.00	7.93 3.00	8.09 0.80	0.90 0.04	45
	4.0 13:48	5.0 28.046	22.22	7.02 94.6	1.49 4.14	11.89 0.39	29.2 4.15	8.00 3.50	8.09 0.80	0.90 0.04	46
5	0.2 14:04	4.5 27.644	21.94	6.90 91.6	1.50 2.36	12.36 0.49	28.6 4.38	8.25 4.00	8.01 0.80	0.75 0.04	47
	1.2 14:04	4.1 27.680	22.01	6.91 90.8	1.40 2.76	11.66 0.44	28.3 4.32	8.34 3.95	8.05 0.80	0.90 0.31	48
	4.0 14:04	4.5 27.710	22.00	--- ---	1.41 ---	12.06 0.47	28.6 4.41	8.57 3.75	--- ---	--- ---	49
	9.0 14:04	4.5 27.715	22.00	6.95 92.3	1.35 3.26	11.83 0.43	27.9 4.36	8.79 3.70	8.07 0.40	0.90 0.44	50
5-1	0.2 14:18	4.0 27.121	21.57	--- ---	1.37 ---	12.11 0.48	29.7 4.26	8.83 4.35	--- ---	--- ---	51
	1.2 14:18	4.0 27.165	21.61	--- ---	1.42 ---	12.07 0.47	29.4 4.26	8.49 ---	--- ---	--- ---	52
	4.0 14:18	4.0 27.333	21.74	--- ---	1.68 ---	12.55 0.50	29.3 4.35	7.46 ---	--- ---	--- ---	53
	12.0 14:18	4.0 27.909	22.20	--- ---	1.40 ---	11.93 0.43	28.0 4.04	8.54 4.15	--- ---	--- ---	54
6	0.2 14:35	4.0 26.848	21.36	7.14 93.1	1.38 2.45	12.07 0.49	30.9 4.41	8.73 5.50	8.07 2.00	3.15 2.20	55
	1.2 14:35	4.0 26.833	21.34	7.16 93.4	1.39 2.16	11.98 0.49	30.4 4.40	8.60 4.40	8.07 1.04	1.05 ---	56
	4.0 14:35	4.0 26.979	21.46	--- ---	1.42 ---	12.53 ---	30.8 ---	8.81 2.43	--- ---	--- ---	57
	12.5 14:35	4.0 27.710	22.04	7.21 94.6	1.42 3.27	11.82 0.45	29.0 4.30	8.34 5.80	8.07 0.40	1.20 1.28	58
7	0.2 14:53	4.0 26.345	20.96	7.21 93.7	1.41 2.61	11.90 0.40	31.5 5.48	8.46 5.16	8.07 1.60	2.10 1.20	59
	1.2 14:53	4.0 26.369	20.98	7.22 93.9	1.40 2.91	11.85 0.52	31.6 4.84	8.49 5.64	8.06 1.20	2.25 1.60	60
	4.0 14:53	4.0 26.794	21.31	7.21 94.0	1.57 3.02	12.14 0.48	44.9 4.65	7.71 9.50	8.06 1.20	1.95 0.76	61

GREAT BAY ESTUARINE DATA: CRUISE #12 12/15/76

STA #	DEPTH TIME	TEMP SAL	SIGMA-t	OXYGEN % SAT	PO4 TOT PO4	NO3 NO2	SiO4 NH4	NO3/PO4 SUSP Ld	pH CHL a	CARO PHAE	ROW #
1	0.2 10:14	3.2 32.370	25.81	7.31 96.9	1.49 2.59	9.96 0.27	10.3 1.65	6.66 ---	8.16 0.50	1.54 1.60	1
	1.2 10:14	3.2 32.406	25.84	7.08 93.9	1.41 3.07	9.20 0.29	11.8 2.32	6.51 ---	8.18 0.53	1.93 1.65	2
	4.0 10:14	3.1 32.406	25.84	--- ---	1.40 ---	9.43 0.18	19.9 1.81	6.72 ---	--- ---	--- ---	3
	14.0 10:14	4.0 32.845	26.11	7.05 95.7	1.62 2.54	8.95 0.18	9.19 1.16	5.52 ---	8.18 0.62	2.23 2.18	4
1-1	0.2 10:40	4.8 32.811	26.00	--- ---	1.61 ---	9.08 0.16	8.94 1.20	5.64 ---	--- ---	--- ---	5
	1.2 10:40	3.1 31.683	25.27	--- ---	1.40 ---	9.91 0.27	12.0 2.32	7.09 ---	--- ---	--- ---	6
	4.0 10:40	3.1 31.826	25.38	--- ---	1.44 ---	9.85 0.35	13.9 1.96	6.85 ---	--- ---	--- ---	7
	14.0 10:40	3.0 32.275	25.75	--- ---	1.81 ---	9.28 0.18	11.4 1.84	5.14 ---	--- ---	--- ---	8
1-2	0.2 11:01	2.8 31.038	24.78	--- ---	--- ---	--- 0.31	15.6 2.81	--- ---	--- ---	--- ---	9
	1.4 11:01	2.3 30.977	24.77	--- ---	1.44 ---	10.30 0.30	14.3 2.51	7.13 ---	--- ---	--- ---	10
	4.0 11:01	2.3 31.003	24.79	--- ---	1.95 ---	10.44 0.32	15.3 2.54	5.36 ---	--- ---	--- ---	11
	14.0 11:01	2.0 30.971	24.78	--- ---	1.42 ---	10.02 0.30	14.5 2.72	7.03 ---	--- ---	--- ---	12
2	0.2 11:15	2.0 30.514	24.42	7.39 93.9	1.43 2.50	10.40 0.32	15.6 3.11	7.28 ---	8.18 0.45	1.23 1.11	13
	1.2 11:15	2.0 30.552	24.45	7.38 93.8	1.84 2.36	9.67 0.22	16.4 3.25	5.25 ---	8.18 0.62	1.30 1.00	14
	4.0 11:15	2.0 30.559	24.45	--- ---	1.96 ---	9.64 0.33	16.9 2.96	4.92 ---	--- ---	--- ---	15
	12.0 11:15	2.0 30.612	24.50	7.40 94.1	1.44 2.20	10.41 0.31	15.6 2.64	7.24 ---	8.19 0.36	1.43 1.33	16
2-1	0.2 11:40	2.5 30.180	24.12	--- ---	2.91 ---	10.33 ---	15.4 3.33	3.55 ---	--- ---	--- ---	17
	1.2 11:40	2.0 29.985	24.00	--- ---	1.77 ---	9.69 0.27	17.8 3.36	5.46 ---	--- ---	--- ---	18
	4.0 11:40	1.7 31.683	25.37	--- ---	1.52 ---	10.46 0.31	18.1 3.57	6.88 ---	--- ---	--- ---	19
	14.0 11:40	1.5 30.059	24.08	--- ---	1.72 ---	9.67 0.27	17.6 3.11	5.61 ---	--- ---	--- ---	20
2-2	0.2 11:50	2.0 29.755	23.81	--- ---	1.79 ---	9.86 0.22	18.7 3.37	5.51 ---	--- ---	--- ---	21
	1.2 11:50	1.8 29.756	23.82	--- ---	1.56 ---	10.62 0.33	19.2 3.52	6.79 ---	--- ---	--- ---	22

GREAT BAY ESTUARINE DATA: CRUISE #12 12/15/76

STA #	DEPTH TIME	TEMP SAL	SIGMA-t	OXYGEN % SAT	PO4 TOT PO4	NO3 NO2	SiO4 NH4	NO3/PO4 SUSP Ld	pH CHL a	CARO PHAE	ROW #
	4.0	1.8	23.84	---	1.43	10.00	18.3	6.98	---	---	23
	11:50	29.773		---	---	0.26	3.30	---	---	---	
	14.0	---	---	---	1.79	10.08	19.3	5.64	---	---	24
	11:50	29.788		---	---	---	3.65	---	---	---	
2-3	0.2	2.1	23.59	---	1.78	9.76	19.1	5.49	---	---	25
	12:05	29.479		---	---	0.27	3.54	---	---	---	
	1.2	2.0	23.56	---	1.51	10.04	21.7	6.66	---	---	26
	12:05	29.446		---	---	---	3.90	---	---	---	
	4.0	1.9	23.52	---	1.76	9.68	20.7	5.51	---	---	27
	12:05	29.383		---	---	0.28	3.80	---	---	---	
	14.0	1.7	23.59	---	1.52	10.70	25.7	7.05	---	---	28
	12:05	29.455		---	---	0.29	3.83	---	---	---	
2-4	0.2	1.8	23.41	---	1.78	10.38	20.7	5.83	---	---	29
	12:28	29.239		---	---	0.33	3.78	---	---	---	
	1.2	1.8	23.10	---	1.42	10.63	21.5	7.48	---	---	30
	12:28	28.845		---	---	0.35	4.08	---	---	---	
	4.0	1.6	22.75	---	1.67	10.81	23.1	6.49	---	---	31
	12:28	28.398		---	---	0.36	4.23	---	---	---	
	12.0	1.4	23.28	---	1.73	10.18	21.6	5.88	---	---	32
	12:28	29.047		---	---	0.28	4.12	---	---	---	
3	0.2	1.2	23.15	8.18	1.50	10.68	---	7.12	8.13	1.47	33
	12:44	28.869		101.	2.62	0.37	7.56	---	0.53	1.52	
	1.2	1.2	20.38	8.01	1.83	10.48	40.6	5.73	8.15	1.53	34
	12:44	25.411		96.3	2.43	0.30	6.30	---	0.62	1.37	
	4.0	1.4	22.17	---	---	---	28.9	---	---	---	35
	12:44	27.653		---	---	---	4.85	---	---	---	
	10.0	1.4	23.27	7.72	1.49	9.80	22.2	6.58	8.18	1.70	36
	12:44	29.036		95.6	2.27	0.37	4.01	---	0.45	1.86	
3-1	0.2	---	---	---	---	---	---	---	---	---	37
	12:59	---		---	---	---	---	---	---	---	
	1.2	---	---	---	1.77	11.61	---	6.55	---	---	38
	12:59	18.284		---	---	0.39	10.60	---	---	---	
	4.0	0.5	17.15	---	1.60	11.20	---	7.00	---	---	39
	12:59	21.347		---	---	0.42	10.05	---	---	---	
	6.5	0.3	21.79	---	1.83	10.56	26.5	5.78	---	---	40
	12:59	27.134		---	---	0.36	5.29	---	---	---	
3-2	0.2	0.5	23.20	---	---	---	22.3	---	---	---	41
	13:15	28.899		---	---	---	4.41	---	---	---	
	1.2	0.2	23.23	---	2.46	10.53	22.2	4.29	---	---	42
	13:15	28.917		---	---	0.30	5.89	---	---	---	
	4.0	0.2	23.19	---	1.73	10.41	22.1	6.01	---	---	43
	13:15	28.869		---	---	0.36	4.10	---	---	---	
	8.5	0.2	23.33	---	1.72	10.32	21.2	6.00	---	---	44
	13:15	29.048		---	---	0.31	4.10	---	---	---	

GREAT BAY ESTUARINE DATA: CRUISE #12 12/15/76

STA #	DEPTH TIME	TEMP SAL	SIGMA-t	OXYGEN % SAT	PO4 TOT PO4	NO3 NO2	SiO4 NH4	NO3/PO4 SUSP Ld	pH CHL a	CARO PHAE	ROW #
4	1.0 13:33	0.0 28.493	22.89	8.27 98.3	--- 2.26	--- 0.32	23.8 5.06	--- ---	8.19 1.07	1.43 0.93	45
	3.5 13:33	0.0 28.822	23.16	8.03 95.7	1.45 2.48	10.11 0.35	23.4 4.68	6.97 ---	8.16 0.62	1.83 1.93	46
5	0.2 13:47	1.2 28.131	22.56	8.12 99.4	1.77 2.52	10.26 0.33	24.9 5.04	5.80 ---	8.15 0.57	1.94 2.01	47
	1.2 13:47	0.2 28.465	22.87	8.01 95.7	1.41 2.48	10.68 0.33	23.9 4.48	7.55 ---	8.14 0.89	2.40 1.98	48
	4.0 13:47	0.2 28.464	22.87	--- ---	1.41 ---	10.79 0.39	23.7 4.82	7.63 ---	--- ---	--- ---	49
	10.0 13:47	0.2 28.602	22.98	8.01 95.8	1.97 2.51	10.37 0.26	22.8 4.50	5.28 ---	8.17 0.80	2.25 1.93	50
5-1	0.2 14:01	1.2 28.688	23.00	--- ---	1.41 ---	10.56 0.37	22.6 4.82	7.48 ---	--- ---	--- ---	51
	1.2 14:01	-0.2 28.360	22.79	--- ---	1.42 ---	10.88 0.41	25.8 4.84	7.64 ---	--- ---	--- ---	52
	4.0 14:01	-0.2 28.416	22.84	--- ---	--- ---	--- 0.32	24.9 5.19	--- ---	--- ---	--- ---	53
	14.0 14:01	-0.2 28.494	22.90	--- ---	1.43 ---	10.75 0.39	24.2 4.81	7.50 ---	--- ---	--- ---	54
6	0.2 14:17	-0.5 28.147	22.63	8.07 94.4	1.60 2.56	10.73 0.38	25.7 5.54	6.72 ---	8.14 0.90	2.85 2.53	55
	1.2 14:17	-0.5 28.131	22.62	7.97 93.3	2.00 2.71	10.66 0.40	25.7 5.37	5.33 ---	8.13 0.80	3.08 2.84	56
	4.0 14:17	-0.5 28.135	22.62	--- ---	1.87 ---	10.56 0.35	21.6 5.57	5.65 ---	--- ---	--- ---	57
	12.0 14:17	-0.8 28.243	22.71	6.79 78.9	1.43 3.35	10.47 0.42	26.3 5.40	7.34 ---	8.06 1.00	3.83 3.27	58
7	0.2 14:32	-0.5 28.179	22.66	8.02 93.9	1.81 3.31	10.86 0.31	25.8 5.45	6.01 ---	8.09 0.67	3.65 3.63	59
	1.2 14:32	-0.5 28.210	22.68	8.04 94.1	1.70 3.12	10.79 0.37	26.3 5.66	6.36 ---	8.14 0.67	4.20 4.29	60
	3.0 14:32	-0.5 28.247	22.71	7.97 93.3	1.44 4.46	10.84 0.42	25.3 5.17	7.55 ---	8.13 0.67	4.20 4.29	61

GREAT BAY ESTUARINE DATA: CRUISE #13 1/13/77

STA #	DEPTH TIME	TEMP SAL	SIGMA-t	OXYGEN % SAT	PO4 TOT PO4	NO3 NO2	SiO4 NH4	NO3/PO4 SUSP Ld	pH CHL a	CARO PHAE	ROW #
1	0.2	0.0	26.23	7.57	1.32	9.81	10.7	7.41	---	1.80	1
	10:00	32.500		90.7	4.21	0.18	1.93	---	0.40	1.70	
	1.2	-1.0	26.24	7.33	1.28	9.16	11.0	7.14	---	2.10	2
	10:00	32.600		87.3	3.96	0.15	1.81	---	0.67	1.48	
	4.0	-0.5	26.27	---	1.31	9.08	10.8	6.91	---	---	3
	10:00	32.660		---	---	0.12	1.93	---	---	---	
	13.0	-0.8	26.33	7.56	1.27	9.05	11.0	7.11	---	1.95	4
	10:00	32.720		90.6	2.82	0.14	1.81	---	0.50	1.67	
2	0.2	-1.5	25.19	7.75	1.37	9.40	13.2	6.85	---	1.28	5
	10:45	31.293		90.2	2.81	0.16	3.15	---	0.30	1.59	
	1.2	-1.2	25.34	7.89	1.33	9.21	13.2	6.92	---	1.43	6
	10:45	31.480		92.7	3.67	0.16	3.40	---	0.50	1.04	
	4.0	-1.8	25.12	---	1.32	9.17	13.4	6.93	---	---	7
	10:45	31.197		---	---	0.17	3.23	---	---	---	
	14.0	-2.0	25.17	7.80	1.39	9.33	13.6	6.70	---	1.54	8
	10:45	31.258		89.5	3.18	0.18	3.21	---	0.46	1.22	
3	0.2	-1.8	21.13	7.44	1.72	10.95	36.1	6.37	---	0.86	9
	11:55	26.274		82.9	4.87	0.40	11.95	---	0.40	0.72	
	1.4	-2.0	21.56	8.06	1.64	10.49	33.2	6.38	---	0.90	10
	11:55	26.809		89.7	3.10	0.36	10.85	---	0.30	0.82	
	4.0	-2.0	24.04	---	1.38	9.36	19.5	6.77	---	---	11
	11:55	29.858		---	---	0.24	5.71	---	---	---	
	8.0	-2.2	23.96	7.86	1.41	9.39	19.9	6.64	---	0.75	12
	11:55	29.765		88.8	3.10	0.24	6.04	---	0.40	0.51	
4	0.2	-1.7	23.68	8.00	1.64	10.37	21.7	6.33	---	0.79	13
	12:20	29.424		91.4	4.26	0.30	8.24	---	0.50	0.69	
	3.0	-1.9	23.97	7.89	1.43	9.90	20.4	6.90	---	0.86	14
	12:20	29.782		89.9	2.77	0.27	7.46	---	0.40	0.72	
5	0.2	-1.8	23.55	7.71	1.52	10.30	23.2	6.79	---	0.60	15
	& 12:36	29.261		87.7	2.59	0.33	9.50	---	0.40	1.00	
	1.2	-1.8	23.46	7.77	1.42	9.44	20.6	6.66	---	0.68	16
	12:36	29.152		88.3	2.95	0.28	7.22	---	0.60	0.17	
	4.0	-2.1	24.30	---	1.49	9.77	19.3	6.55	---	---	17
	12:36	30.176		---	---	0.25	6.40	---	---	---	
	12.0	-1.7	24.56	7.82	1.39	9.25	18.1	6.66	---	0.86	18
	12:36	30.507		90.0	2.88	0.25	5.43	---	0.60	0.24	
6	0.2	-1.8	23.37	7.42	1.48	10.33	25.5	6.98	---	0.69	19
	13:06	29.033		84.3	3.40	0.32	8.98	---	0.50	0.86	
	1.2	-2.0	23.32	7.58	1.50	10.18	25.9	6.79	---	1.01	20
	13:06	28.974		85.6	3.16	0.35	8.67	---	0.40	0.79	
	4.0	-1.9	22.82	---	1.36	9.74	26.1	7.15	---	---	21
	13:06	28.354		---	---	0.32	8.56	---	---	---	
	13.0	-1.9	24.56	7.10	1.46	9.91	23.0	6.79	---	0.69	22
	13:06	30.507		81.3	2.68	0.29	7.43	---	0.46	0.50	

GREAT BAY ESTUARINE DATA: CRUISE #13 1/13/77

STA #	DEPTH TIME	TEMP SAL	SIGMA-t	OXYGEN % SAT	PO4 TOT PO4	NO3 NO2	SiO4 NH4	NO3/PO4 SUSP Ld	pH CHL a	CARO PHAE	ROW #
7	0.2	-2.0	22.86	7.38	1.51	10.56	27.8	6.98	---	1.01	23
	13:19	28.411		83.0	2.99	0.38	9.98	---	0.70	1.12	
	1.2	-1.7	22.98	7.54	1.44	10.31	27.3	7.15	---	1.05	24
	13:19	28.561		85.6	2.98	0.33	9.21	---	0.40	0.93	
	4.0	-1.9	23.05	---	1.52	10.23	27.2	6.72	---	---	25
	13:19	28.640		---	---	0.35	9.16	---	---	---	
	6.0	-2.0	24.38	7.57	1.41	9.90	24.6	7.02	---	0.41	26
	13:19	30.276		98.5	2.86	0.33	8.46	---	0.30	0.00	

GREAT BAY ESTUARINE DATA: CRUISE #14 2/10/77

STA #	DEPTH TIME	TEMP SAL	SIGMA-t	OXYGEN % SAT	PO4 TOT PO4	NO3 NO2	SiO4 NH4	NO3/PO4 SUSP Ld	pH CHL a	CARO PHAE	ROW #
1	0.2	0.0	26.53	---	2.27	13.45	14.0	5.92	---	0.56	1
	8:40	33.004		---	2.45	0.19	2.54	1.90	0.40	0.56	
	1.2	0.5	26.42	---	1.99	12.79	13.9	6.43	---	0.41	2
	8:40	32.906		---	1.75	0.15	2.48	1.84	0.50	0.00	
	4.0	0.0	26.46	---	2.22	13.20	16.9	5.94	---	---	3
	8:40	32.920		---	---	0.15	2.34	2.03	---	---	
	11.0	0.0	26.54	---	2.21	13.30	19.6	6.01	---	0.49	4
	8:40	33.021		---	1.99	0.13	2.24	2.03	0.40	0.00	
1-1	0.2	1.0	26.20	---	2.06	12.84	20.9	6.22	---	---	5
	9:15	32.663		---	---	0.16	3.00	2.08	---	---	
	1.2	0.2	26.24	---	2.27	12.92	15.5	5.68	---	---	6
	9:15	32.657		---	---	0.15	2.92	1.84	---	---	
	4.0	0.2	26.22	---	2.23	13.17	14.3	5.90	---	---	7
	9:15	32.635		---	---	---	2.88	1.55	---	---	
	14.0	0.1	26.30	---	2.22	13.03	14.4	5.86	---	---	8
	9:15	32.724		---	---	0.16	2.91	1.66	---	---	
1-2	0.2	0.2	25.93	---	2.05	12.93	16.6	6.29	---	---	9
	9:32	32.274		---	---	0.18	3.45	---	---	---	
	1.4	0.1	25.89	---	2.06	12.96	16.9	6.28	---	---	10
	9:32	32.219		---	---	0.17	3.55	---	---	---	
	4.0	-0.1	25.94	---	2.06	12.88	28.4	6.24	---	---	11
	9:32	32.265		---	---	0.18	3.52	---	---	---	
	15.0	-0.4	25.91	---	2.29	12.90	16.7	5.64	---	---	12
	9:32	32.223		---	---	0.17	3.80	---	---	---	
2	0.2	1.0	25.63	---	2.01	12.47	16.8	6.22	---	0.56	13
	9:55	31.951		---	1.90	0.17	3.84	1.77	0.40	0.30	
	1.4	0.0	25.68	---	2.06	12.51	15.1	6.08	---	0.53	14
	9:55	31.949		---	1.81	0.17	4.11	1.82	0.30	0.40	
	4.0	-0.1	25.68	---	2.10	12.94	28.3	6.17	---	---	15
	9:55	31.954		---	---	0.18	3.13	1.77	---	---	
	12.0	-0.5	25.75	---	2.20	13.14	16.6	5.98	---	0.60	16
	9:55	32.021		---	3.77	0.19	4.24	1.87	0.60	0.00	
2-2	0.2	2.5	25.17	---	2.30	12.91	18.4	5.61	---	---	17
	10:29	31.493		---	---	0.20	4.60	---	---	---	
	1.2	0.5	25.25	---	2.23	13.07	19.3	5.86	---	---	18
	10:29	31.449		---	---	0.20	4.82	---	---	---	
	4.0	0.0	25.29	---	2.34	12.93	20.3	5.52	---	---	19
	10:29	31.469		---	---	0.20	4.86	---	---	---	
	14.0	0.0	25.28	---	2.03	12.19	19.1	6.01	---	---	20
	10:29	31.456		---	---	0.21	4.82	---	---	---	
2-4	0.2	1.2	24.81	---	2.07	13.06	28.8	6.31	---	---	21
	11:00	30.948		---	---	0.20	5.00	1.67	---	---	
	1.2	0.0	24.50	---	2.30	13.09	22.9	5.68	---	---	22
	11:00	30.487		---	---	0.20	6.45	1.78	---	---	

GREAT BAY ESTUARINE DATA: CRUISE #14 2/10/77

STA #	DEPTH / TIME	TEMP / SAL	SIGMA-t	OXYGEN / % SAT	PO4 / TOT PO4	NO3 / NO2	SiO4 / NH4	NO3/PO4 / SUSP Ld	pH / CHL a	CARO / PHAE	ROW #
	4.0	0.0	24.61	---	2.22	12.69	23.7	5.71	---	---	23
	11:00	30.621		---	---	0.22	6.65	1.84	---	---	
	11.0	-0.2	24.96	---	2.29	13.16	21.3	5.74	---	---	24
	11:00	31.052		---	---	0.20	6.00	2.37	---	---	
3	0.2	2.1	20.27	---	2.10	12.68	20.2	6.05	---	0.98	25
	11:21	25.318		---	2.76	0.22	3.61	2.68	0.60	0.40	
	1.2	0.0	20.48	---	2.51	14.00	48.7	5.58	---	0.90	26
	11:21	25.494		---	3.52	0.32	17.24	3.47	0.40	0.50	
	4.0	0.0	24.31	---	2.30	13.15	---	5.73	---	---	27
	11:21	30.254		---	---	0.20	5.15	2.39	---	---	
	8.0	-0.1	24.70	---	2.08	12.95	21.4	6.22	---	---	28
	11:21	30.727		---	---	0.22	5.00	3.32	---	---	
3-1	0.2	1.0	18.75	---	2.94	14.29	59.7	4.86	---	---	29
	11:40	23.368		---	---	0.34	20.32	2.67	---	---	
	1.2	0.0	19.47	---	2.51	13.89	53.8	5.52	---	---	30
	11:40	24.236		---	---	0.29	16.75	3.12	---	---	
	4.0	-0.2	22.37	---	2.27	13.19	26.5	5.82	---	---	31
	11:40	27.827		---	---	0.27	9.09	1.82	---	---	
	7.0	-0.4	23.19	---	2.33	12.99	30.8	5.57	---	---	32
	11:40	28.846		---	---	0.24	8.20	3.17	---	---	
3-2	0.2	1.0	24.48	---	2.32	---	---	---	---	---	33
	11:59	30.513		---	---	---	6.45	2.02	---	---	
	1.2	0.0	24.36	---	2.23	12.98	22.5	5.81	---	---	34
	11:59	30.317		---	---	0.22	5.07	1.32	---	---	
	4.0	-0.2	24.53	---	2.27	12.85	22.2	5.65	---	---	35
	11:59	30.518		---	---	0.22	5.04	1.65	---	---	
	9.0	-0.3	24.72	---	2.04	12.77	21.4	6.26	---	---	36
	11:59	30.749		---	---	0.21	4.85	1.79	---	---	
4	0.2	0.4	23.96	---	2.13	13.39	24.8	6.30	---	1.05	37
	12:15	29.831		---	2.29	0.25	5.05	2.64	0.70	0.40	
	3.0	0.0	24.56	---	2.31	12.92	24.7	5.58	---	0.90	38
	12:15	30.564		---	1.69	0.22	5.59	2.79	0.90	0.40	
5	0.2	0.0	24.27	---	2.29	12.90	23.8	5.65	---	0.90	39
	12:32	30.199		---	1.67	0.24	6.18	1.97	0.70	0.50	
	1.2	0.0	24.29	---	2.11	13.06	25.5	6.18	---	1.00	40
	12:32	30.226		---	1.19	0.24	5.97	1.47	1.20	0.00	
	4.0	-0.1	24.40	---	2.06	12.88	24.8	6.24	---	---	41
	12:32	30.360		---	---	0.21	5.82	1.74	---	---	
	11.0	-0.2	24.30	---	2.07	12.89	24.9	6.22	---	1.00	42
	12:32	30.235		---	2.84	0.23	5.61	1.63	0.90	0.30	
5-1	0.2	-0.1	24.40	---	2.05	12.93	26.0	6.29	---	---	43
	12:51	30.358		---	---	0.22	5.53	2.02	---	---	
	1.2	-0.5	24.40	---	2.04	12.82	23.1	6.27	---	---	44
	12:51	30.347		---	---	0.23	5.75	1.69	---	---	

GREAT BAY ESTUARINE DATA: CRUISE #14 2/10/77

STA #	DEPTH TIME	TEMP SAL	SIGMA-t	OXYGEN % SAT	PO4 TOT PO4	NO3 NO2	SiO4 NH4	NO3/PO4 SUSP Ld	pH CHL a	CARO PHAE	ROW #
	4.0	-0.8	24.42	---	2.03	12.85	23.7	6.32	---	---	45
	12:51	30.360		---	---	0.22	5.46	1.87	---	---	
	12.0	-1.0	24.42	---	1.99	12.61	23.2	6.33	---	---	46
	12:51	30.355		---	---	0.24	5.38	2.13	---	---	
6	0.2	0.0	23.65	---	2.21	13.48	25.2	6.10	---	1.00	47
	13:09	29.437		---	1.74	0.25	6.79	3.27	0.80	0.70	
	1.2	-0.1	23.52	---	2.02	13.11	29.2	6.49	---	1.20	48
	13:09	29.268		---	2.23	0.27	7.22	2.05	1.10	0.40	
	4.0	-0.5	23.50	---	2.43	13.27	32.6	5.46	---	---	49
	13:09	29.222		---	---	0.27	7.01	2.74	---	---	
	12.0	-0.5	23.63	---	2.03	12.93	29.4	6.38	---	1.00	50
	13:09	29.387		---	1.87	0.26	6.53	2.19	0.80	0.80	

GREAT BAY ESTUARINE DATA: CRUISE #15 3/28/77

STA #	DEPTH TIME	TEMP SAL	SIGMA-t	OXYGEN % SAT	PO4 TOT PO4	NO3 NO2	SiO4 NH4	NO3/PO4 SUSP Ld	pH CHL a	CARO PHAE	ROW #
1	0.2	3.5	23.48	7.22	1.04	3.99	17.7	3.83	7.96	---	1
	9:46	29.479		94.6	1.97	0.28	1.46	2.19	0.30	---	
	1.2	3.2	23.65	7.33	1.04	3.64	17.5	3.50	7.96	---	2
	9:46	29.652		95.5	1.44	0.30	2.04	2.36	0.70	---	
	4.0	3.0	23.67	---	1.03	3.60	17.9	3.49	---	---	3
	9:46	29.658		---	---	0.29	1.86	3.73	---	---	
	10.0	2.9	24.18	8.15	1.03	3.59	16.2	3.49	7.96	---	4
	9:46	30.296		106.	1.68	0.25	1.71	1.36	---	---	
1-1	0.2	3.8	20.68	---	0.96	3.66	26.4	3.82	---	---	5
	10:12	25.972		---	---	0.32	2.74	1.09	---	---	
	1.2	3.3	20.85	---	0.95	3.71	26.0	3.90	---	---	6
	10:12	26.148		---	---	0.29	2.96	1.09	---	---	
	4.0	3.1	21.26	---	1.00	3.63	24.9	3.63	---	---	7
	10:12	26.646		---	---	0.33	2.30	3.19	---	---	
	15.0	3.0	21.98	---	0.97	3.63	22.4	3.74	---	---	8
	10:12	27.539		---	---	0.29	2.42	1.19	---	---	
1-2	0.2	4.0	17.70	---	0.88	3.71	36.2	4.22	---	---	9
	10:36	22.228		---	---	0.35	3.69	---	---	---	
	1.2	3.8	18.11	---	0.90	3.71	34.8	4.12	---	---	10
	10:36	22.728		---	---	0.30	3.08	---	---	---	
	4.0	3.5	18.35	---	0.93	3.71	34.6	3.99	---	---	11
	10:36	23.012		---	---	0.29	3.58	---	---	---	
	11.0	3.3	18.31	---	0.92	3.68	34.6	4.01	---	---	12
	10:36	22.940		---	---	0.32	2.93	---	---	---	
2	0.2	4.0	16.70	8.19	0.86	3.65	40.3	4.24	7.89	---	13
	10:50	20.960		103.	1.76	0.35	3.30	2.59	0.30	---	
	1.2	3.8	16.29	7.93	0.85	3.67	40.7	4.32	7.76	---	14
	10:50	20.435		98.6	1.27	0.32	3.61	2.19	1.50	---	
	4.0	3.5	16.87	---	0.86	3.65	40.4	4.24	---	---	15
	10:50	21.138		---	---	0.34	4.39	2.59	---	---	
	15.0	3.3	17.11	7.90	0.85	3.70	38.7	4.35	7.80	---	16
	10:50	21.427		97.6	1.40	0.31	4.20	2.99	0.70	---	
2-1	0.2	4.3	13.73	---	0.76	3.80	49.1	5.00	---	---	17
	11:10	17.220		---	---	0.34	3.96	---	---	---	
	1.2	4.0	13.63	---	0.76	3.72	49.6	4.89	---	---	18
	11:10	17.074		---	---	0.37	4.21	---	---	---	
	4.0	3.8	13.63	---	0.74	3.68	49.5	4.97	---	---	19
	11:10	17.065		---	---	0.33	4.42	---	---	---	
	16.0	3.3	14.06	---	0.83	3.70	48.1	4.46	---	---	20
	11:10	17.575		---	---	0.32	4.26	---	---	---	
2-2	0.2	4.2	12.92	---	0.76	3.71	51.9	4.88	---	---	21
	11:25	16.195		---	---	0.37	4.47	2.09	---	---	
	1.2	4.0	12.91	---	0.72	3.70	52.2	5.13	---	---	22
	11:25	16.163		---	---	0.37	4.78	---	---	---	

GREAT BAY ESTUARINE DATA: CRUISE #15 3/28/77

STA #	DEPTH TIME	TEMP. SAL	SIGMA-t	OXYGEN % SAT	PO4 TOT PO4	NO3 NO2	SiO4 NH4	NO3/PO4 SUSP Ld	pH CHL a	CARO PHAE	ROW #
	4.0	3.8	13.13	---	0.75	3.73	51.7	4.98	---	---	23
	11:25	16.426		---	---	0.33	4.90	2.79	---	---	
	15.0	3.7	13.25	---	0.76	3.91	51.7	5.14	---	---	24
	11:25	16.577		---	---	0.25	4.31	---	---	---	
2-3	0.2	4.8	12.01	---	0.71	3.78	54.3	5.33	---	---	25
	11:40	15.078		---	---	0.33	5.02	2.79	---	---	
	1.2	4.0	12.06	---	0.73	3.78	54.5	5.17	---	---	26
	11:40	15.083		---	---	0.29	5.07	4.59	---	---	
	4.0	3.9	12.27	---	0.74	3.77	54.4	5.10	---	---	27
	11:40	15.352		---	---	0.30	5.05	2.89	---	---	
	15.0	3.5	12.71	---	0.74	3.71	52.5	5.01	---	---	28
	11:40	15.886		---	---	0.35	4.93	3.89	---	---	
2-4	0.2	4.5	11.18	---	0.69	3.74	57.5	5.42	---	---	29
	12:02	14.007		---	---	0.37	5.31	4.29	---	---	
	1.2	4.2	10.96	---	0.77	3.66	57.6	4.76	---	---	30
	12:02	13.702		---	---	0.37	4.84	3.29	---	---	
	4.0	4.0	11.21	---	0.67	3.66	57.4	5.46	---	---	31
	12:02	14.008		---	---	0.37	5.59	4.49	---	---	
	14.0	3.8	11.00	---	0.70	3.77	58.1	5.39	---	---	32
	12:02	13.740		---	---	0.28	4.75	11.34	---	---	
3	0.2	4.8	4.74	8.27	0.49	3.74	82.7	7.64	7.33	---	33
	12:17	5.827		95.8	1.22	0.32	5.33	3.19	0.50	---	
	1.2	4.3	4.76	8.67	0.47	3.61	85.3	7.68	7.42	---	34
	12:17	5.832		99.1	1.32	0.39	5.38	4.29	0.10	---	
	4.0	3.9	10.46	---	0.67	3.67	61.6	5.48	---	---	35
	12:17	13.052		---	---	0.34	4.60	5.19	---	---	
	10.0	3.3	13.86	8.12	0.82	3.70	49.1	4.52	7.78	---	36
	12:17	17.320		97.6	2.78	0.33	4.71	3.19	0.60	---	
3-1	0.2	4.5	4.53	---	0.44	3.62	91.3	8.22	---	---	37
	12:30	5.540		---	---	0.36	4.52	5.33	---	---	
	1.2	4.2	2.98	---	0.40	3.55	91.8	8.88	---	---	38
	12:30	3.554		---	---	0.43	5.11	4.49	---	---	
	4.0	4.0	9.72	---	0.71	3.76	56.3	5.29	---	---	39
	12:30	12.121		---	---	0.36	4.74	3.69	---	---	
3-2	0.2	4.9	9.59	---	0.63	3.82	61.5	6.07	---	---	40
	12:47	12.007		---	---	0.38	5.18	5.74	---	---	
	1.2	4.5	9.77	---	0.64	3.70	61.4	5.77	---	---	41
	12:47	12.216		---	---	0.42	5.07	---	---	---	
	4.0	4.2	9.90	---	0.63	3.68	60.8	5.84	---	---	42
	12:47	12.362		---	---	0.37	4.96	5.09	---	---	
	9.0	3.9	11.03	---	0.72	3.67	57.4	5.10	---	---	43
	12:47	13.781		---	---	0.30	5.31	---	---	---	
4	0.2	6.1	7.27	8.27	0.64	5.08	66.3	7.94	7.41	---	44
	13:05	9.134		101.	1.43	0.31	5.17	2.74	0.80	---	

GREAT BAY ESTUARINE DATA: CRUISE #15 3/28/77

STA #	DEPTH TIME	TEMP SAL	SIGMA-t	OXYGEN % SAT	PO4 TOT PO4	NO3 NO2	SiO4 NH4	NO3/PO4 SUSP Ld	pH CHL a	CARO PHAE	ROW #
	2.0	5.4	8.57	8.22	0.65	4.18	63.8	6.43	7.58	---	45
	13:05	10.740		100.	1.49	0.30	5.17	3.89	0.20	---	
5	0.2	5.6	6.67	8.22	0.75	5.64	74.4	7.52	7.27	---	46
	13:20	8.333		98.8	2.26	0.33	5.44	3.74	0.40	---	
	1.2	5.0	7.21	8.36	0.73	5.14	71.9	7.04	7.47	---	47
	13:20	8.980		99.4	1.32	0.30	6.23	4.14	0.20	---	
	4.0	4.5	8.75	---	0.58	3.66	64.5	6.31	---	---	48
	13:20	10.920		---	---	0.40	5.48	6.09	---	---	
	8.5	4.1	9.33	8.20	0.66	3.83	63.2	5.80	7.53	---	49
	13:20	11.629		96.9	1.52	0.41	6.30	7.29	0.40	---	
5-1	0.2	6.1	5.96	---	0.48	3.45	74.3	7.19	---	---	50
	13:37	7.450		---	---	0.35	5.32	4.89	---	---	
	1.2	6.0	7.29	---	0.54	3.53	69.8	6.54	---	---	51
	13:37	9.153		---	---	0.32	4.99	---	---	---	
	4.0	4.1	8.70	---	0.57	3.61	64.7	6.33	---	---	52
	13:37	10.836		---	---	0.42	5.17	4.74	---	---	
	15.0	3.5	11.04	---	0.69	3.82	56.9	5.54	---	---	53
	13:37	13.766		---	---	0.26	5.88	---	---	---	
6	0.2	5.5	6.67	8.18	0.65	3.60	71.2	5.54	7.51	---	54
	13:55	8.324		98.0	1.16	0.31	4.82	2.49	0.34	---	
	1.2	5.0	7.06	7.58	0.54	3.53	70.6	6.53	7.41	---	55
	13:55	8.791		90.0	1.32	0.34	5.77	5.29	0.46	---	
	4.0	4.1	8.50	---	0.58	3.53	64.9	6.08	---	---	56
	13:55	10.580		---	---	0.40	5.31	8.24	---	---	
	12.0	3.8	10.46	8.19	0.69	4.01	59.1	5.81	7.59	---	57
	13:55	13.046		97.0	2.51	---	6.12	15.99	0.84	---	
7	0.2	5.1	6.43	8.18	0.72	3.73	57.0	5.18	7.43	---	58
	14:12	7.993		96.8	1.30	0.32	4.79	6.49	0.27	---	
	1.2	4.8	7.30	8.18	0.59	3.52	69.5	5.97	7.54	---	59
	14:12	9.084		96.8	1.32	0.31	5.93	6.91	0.40	---	
	6.0	3.9	9.04	8.08	0.64	3.59	63.6	5.61	7.42	---	60
	14:12	11.257		94.8	2.03	0.43	6.22	6.19	0.53	---	

GREAT BAY ESTUARINE DATA: CRUISE #16 4/26/77

STA #	DEPTH TIME	TEMP SAL	SIGMA-t	OXYGEN % SAT	PO4 TOT PO4	NO3 NO2	SiO4 NH4	NO3/PO4 SUSP Ld	pH CHL a	CARO PHAE	ROW #
1	0.2 10:00	8.0 29.122	22.71	7.29 106.	0.22 1.05	0.60 0.15	5.92 0.82	2.68 3.81	8.06 1.80	2.96 2.12	1
	1.2 10:00	8.0 29.110	22.70	7.28 106.	0.23 1.47	0.63 0.16	5.71 ---	2.72 4.21	8.06 1.70	2.89 2.22	2
	4.0 10:00	7.5 29.255	22.88	--- ---	0.17 ---	0.56 0.15	5.19 0.82	3.26 4.41	--- ---	--- ---	3
	14.0 10:00	7.5 29.488	23.06	7.49 108.	0.27 0.90	0.27 0.13	3.80 1.48	1.00 4.56	8.05 1.70	2.81 2.52	4
1-1	0.2 10:21	8.0 28.628	22.32	--- ---	0.28 ---	1.13 0.19	9.13 0.51	4.10 4.31	--- ---	--- ---	5
	1.2 10:21	8.0 26.962	21.02	--- ---	0.17 ---	1.24 0.16	9.62 1.44	7.33 4.96	--- ---	--- ---	6
	4.0 10:21	8.0 27.055	21.09	--- ---	0.19 ---	1.15 0.17	9.63 1.56	6.08 4.76	--- ---	--- ---	7
	14.0 10:21	8.0 28.459	22.19	--- ---	0.18 ---	1.66 0.14	7.36 0.94	9.34 2.73	--- ---	--- ---	8
1-2	0.2 10:42	8.4 24.548	19.08	--- ---	0.29 ---	1.79 0.18	15.5 1.81	6.21 ---	--- ---	--- ---	9
	1.2 10:42	8.0 24.102	18.79	--- ---	0.29 ---	1.76 0.20	15.9 1.89	6.03 ---	--- ---	--- ---	10
	4.0 10:42	8.0 24.336	18.97	--- ---	0.31 ---	1.75 0.19	15.4 1.89	5.63 ---	--- ---	--- ---	11
	12.0 10:42	8.0 25.342	19.76	--- ---	0.23 ---	1.55 0.18	13.4 1.77	6.69 ---	--- ---	--- ---	12
2	0.2 10:58	8.8 22.418	17.37	7.11 101.	0.36 1.29	2.11 0.20	19.1 2.24	5.95 5.43	--- 2.90	4.46 ---	13
	1.2 10:58	8.8 22.338	17.31	7.12 101.	0.33 1.11	2.13 0.20	24.8 2.13	6.55 6.53	--- 2.90	4.46 3.47	14
	4.0 10:58	8.8 22.326	17.30	--- ---	0.31 ---	2.27 0.21	19.3 2.34	7.44 5.33	--- ---	--- ---	15
	13.0 10:58	8.2 23.382	18.20	6.89 97.2	0.27 2.41	2.00 0.21	17.5 2.16	7.48 7.03	--- 2.90	4.84 3.89	16
2-1	0.2 11:22	11.0 23.310	17.75	--- ---	0.27 ---	1.96 0.20	17.5 1.48	7.33 ---	--- ---	--- ---	17
	1.2 11:22	9.5 20.274	15.62	--- ---	0.32 ---	2.49 0.22	23.4 2.52	7.74 ---	--- ---	--- ---	18
	4.0 11:22	9.3 20.381	15.72	--- ---	0.35 ---	2.46 0.22	23.4 2.59	7.01 ---	--- ---	--- ---	19
	17.0 11:22	9.1 20.477	15.83	--- ---	0.36 ---	2.42 0.21	22.9 2.49	6.72 ---	--- ---	--- ---	20
2-2	0.2 11:35	11.0 19.852	15.08	--- ---	0.42 ---	2.45 0.23	23.7 2.52	5.91 7.33	--- ---	--- ---	21
	1.2 11:35	9.0 19.633	15.18	--- ---	0.39 ---	2.60 0.24	24.9 2.56	6.72 ---	--- ---	--- ---	22

GREAT BAY ESTUARINE DATA: CRUISE #16 4/26/77

STA #	DEPTH TIME	TEMP SAL	SIGMA-t	OXYGEN % SAT	PO4 TOT PO4	NO3 NO2	SiO4 NH4	NO3/PO4 SUSP Ld	pH CHL a	CARO PHAE	ROW #
	4.0	9.0	15.26	---	0.47	2.48	---	5.31	---	---	23
	11:35	19.734		---	---	0.23	2.69	7.23	---	---	
	15.0	9.0	15.33	---	0.34	2.55	24.3	7.61	---	---	24
	11:35	19.825		---	---	0.22	2.45	---	---	---	
2-3	0.2	10.2	14.48	---	0.43	2.62	25.6	6.05	---	---	25
	11:50	18.930		---	---	0.22	2.50	7.10	---	---	
	1.2	9.3	14.57	---	0.26	2.56	25.5	9.78	---	---	26
	11:50	18.891		---	---	0.22	2.53	6.83	---	---	
	4.0	9.3	14.59	---	0.32	2.71	25.8	8.43	---	---	27
	11:50	18.922		---	---	0.23	2.69	8.43	---	---	
	15.0	9.1	15.01	---	0.42	2.60	25.1	6.22	---	---	28
	11:50	19.430		---	---	0.24	2.78	8.30	---	---	
2-4	0.2	9.9	13.58	---	0.39	2.71	73.4	6.92	---	---	29
	12:13	17.716		---	---	0.25	2.91	9.30	---	---	
	1.4	9.7	12.63	---	0.42	2.86	32.0	6.79	---	---	30
	12:13	16.454		---	---	0.24	3.15	9.30	---	---	
	4.0	9.7	13.36	---	0.40	2.78	27.1	6.88	---	---	31
	12:13	17.404		---	---	0.25	3.67	9.90	---	---	
	14.0	9.5	14.10	---	0.39	2.59	32.2	6.69	---	---	32
	12:13	18.324		---	---	0.24	2.82	10.60	---	---	
3	0.2	9.0	4.77	7.50	0.48	4.10	64.3	8.54	7.59	3.30	33
	12:29	6.202		96.6	3.23	0.20	4.79	7.83	1.47	2.55	
	1.2	9.0	10.74	7.06	0.37	3.23	43.8	8.72	7.81	5.50	34
	12:29	13.911		95.5	1.61	0.22	3.91	10.30	7.48	0.00	
	4.0	9.1	13.56	---	0.45	2.79	24.6	6.15	---	---	35
	12:29	17.560		---	---	0.24	3.16	11.30	---	---	
	10.0	9.0	15.42	6.91	0.46	2.48	30.1	5.34	8.01	7.00	36
	12:29	19.943		97.1	---	0.23	3.10	12.10	3.60	5.55	
3-1	0.2	9.5	3.90	---	0.33	4.37	64.6	13.32	---	---	37
	12:44	5.136		---	---	0.17	4.70	8.30	---	---	
	1.2	9.5	3.43	---	0.42	4.23	25.9	10.00	---	---	38
	12:44	4.518		---	---	0.20	4.06	10.50	---	---	
	4.0	9.0	15.70	---	0.49	2.44	27.8	4.96	---	---	39
	12:44	20.297		---	---	0.23	3.69	12.90	---	---	
3-2	0.2	10.1	13.15	---	0.40	3.19	26.6	6.51	---	---	40
	13:03	17.196		---	---	0.26	2.76	9.83	---	---	
	1.2	10.0	13.41	---	0.43	2.70	24.2	6.28	---	---	41
	13:03	17.507		---	---	0.25	2.87	10.88	---	---	
	4.0	10.0	13.52	---	0.37	2.53	25.5	6.80	---	---	42
	13:03	17.650		---	---	0.25	2.74	9.93	---	---	
	9.0	---	---	---	0.39	2.44	23.7	6.34	---	---	43
	13:03	18.550		---	---	0.25	2.67	10.10	---	---	
4	0.2	11.0	10.61	6.99	0.40	3.99	24.3	9.98	7.96	5.60	44
	13:19	14.060		99.1	1.40	0.27	3.29	7.20	4.14	4.18	

GREAT BAY ESTUARINE DATA: CRUISE #16 4/26/77

STA #	DEPTH TIME	TEMP SAL	SIGMA-t	OXYGEN % SAT	PO4 TOT PO4	NO3 NO2	SiO4 NH4	NO3/PO4 SUSP Ld	pH CHL a	CARO PHAE	ROW #
	3.0	10.0	13.45	6.88	0.40	3.05	27.4	7.56	7.94	9.05	45
	13:19	17.567		97.5	1.40	0.27	3.13	---	7.34	6.49	
5	0.2	10.7	9.02	7.22	0.43	4.39	43.8	10.31	7.84	6.30	46
	13:34	11.940		100.	1.31	0.27	3.00	7.50	5.61	3.83	
	1.2	10.7	9.70	6.76	0.40	3.11	32.6	7.80	7.94	7.45	47
	13:34	12.825		94.4	1.41	0.27	2.94	9.03	6.14	5.35	
	4.0	10.3	9.87	7.14	0.42	3.11	37.1	7.44	7.84	7.30	48
	13:34	12.976		98.9	1.31	0.27	2.61	---	4.94	6.65	
5-1	0.2	11.1	7.01	---	0.33	2.98	45.7	9.15	---	---	49
	13:48	9.394		---	---	0.24	2.83	6.60	---	---	
	1.2	10.3	8.41	---	0.38	2.88	43.0	7.54	---	---	50
	13:48	11.088		---	---	0.25	2.60	6.43	---	---	
	4.0	10.0	12.17	---	0.42	2.33	28.1	5.61	---	---	51
	13:48	15.915		---	---	0.27	2.93	9.80	---	---	
	10.0	9.9	13.09	---	0.40	2.26	25.2	5.70	---	---	52
	13:48	17.088		---	---	0.27	3.09	10.80	---	---	
6	0.2	10.4	9.66	7.02	0.42	2.78	39.2	6.61	7.78	8.25	53
	14:05	12.725		97.3	1.52	0.27	2.87	8.83	7.34	5.37	
	1.2	9.5	10.54	7.18	0.37	2.42	33.9	6.51	7.90	9.80	54
	14:05	13.728		98.1	1.12	0.27	2.14	---	8.01	7.22	
	4.0	10.0	12.29	---	0.41	2.29	27.4	5.53	---	---	55
	14:05	16.068		---	---	0.28	2.62	10.63	---	---	
	15.0	10.0	13.42	6.88	0.38	2.10	23.7	5.49	7.94	11.50	56
	14:05	17.525		97.4	1.38	0.27	2.97	---	8.68	8.89	
7	0.2	11.0	8.30	6.89	0.50	2.94	44.9	5.85	7.61	7.95	57
	14:23	11.054		95.8	2.61	0.26	4.06	---	6.01	5.49	
	1.2	11.0	9.40	6.87	0.55	2.84	40.7	5.13	7.74	8.40	58
	14:23	12.489		96.4	1.80	0.32	3.85	12.33	6.41	6.26	
	6.0	10.7	13.58	6.70	0.40	1.96	22.4	4.88	7.90	7.80	59
	14:23	17.858		96.6	1.56	0.28	---	13.93	6.09	6.36	

GREAT BAY ESTUARINE DATA: CRUISE #17 5/25/77

STA #	DEPTH TIME	TEMP SAL	SIGMA-t	OXYGEN % SAT	PO4 TOT PO4	NO3 NO2	SiO4 NH4	NO3/PO4 SUSP Ld	pH CHL a	CARO PHAE	ROW #
1	0.2	9.9	23.49	7.08	0.28	2.42	5.48	8.69	8.30	1.24	1
	9:50	30.487		109.	---	0.00	1.51	1.80	0.57	1.81	
	1.2	9.7	23.51	7.02	0.28	2.36	5.45	8.52	8.35	0.45	2
	9:50	30.466		107.	2.13	0.00	1.49	1.92	0.20	0.78	
	4.0	9.2	23.66	---	0.29	2.31	4.82	8.06	---	---	3
	9:50	30.553		---	---	0.02	1.44	2.18	---	---	
	11.0	8.1	24.23	7.26	0.32	2.46	4.00	7.70	8.36	0.86	4
	9:50	31.076		107.	1.25	0.00	0.86	1.71	0.50	0.97	
1-1	0.2	10.5	22.91	---	0.31	2.45	4.65	7.95	---	---	5
	10:11	29.862		---	---	0.02	1.28	2.77	---	---	
	1.2	10.3	22.82	---	0.33	2.40	5.86	7.29	---	---	6
	10:11	29.705		---	---	0.02	1.03	2.77	---	---	
	4.0	10.1	22.93	---	0.31	2.42	5.92	7.89	---	---	7
	10:11	29.810		---	---	0.01	1.10	2.74	---	---	
	15.0	9.1	23.57	---	0.29	2.19	4.63	7.54	---	---	8
	10:11	30.422		---	---	0.01	1.44	1.74	---	---	
1-2	0.2	13.2	20.65	---	0.39	2.53	5.44	6.55	---	---	9
	10:34	27.556		---	---	0.11	1.36	---	---	---	
	1.2	12.5	21.01	---	0.33	2.68	5.17	8.03	---	---	10
	10:34	27.854		---	---	0.04	1.49	---	---	---	
	4.0	12.2	21.01	---	0.34	2.54	6.07	7.42	---	---	11
	10:34	27.784		---	---	0.04	1.92	---	---	---	
	14.0	11.5	21.72	---	0.32	2.61	6.71	8.05	---	---	12
	10:34	28.542		---	---	0.04	1.84	---	---	---	
2	0.2	9.5	20.64	6.44	0.34	2.67	5.90	7.75	8.30	3.23	13
	10:50	26.740		95.6	1.35	0.04	2.10	5.04	3.40	0.66	
	1.2	8.9	20.71	6.40	0.37	2.69	5.75	7.22	8.30	3.64	14
	10:50	26.719		93.7	1.50	0.12	1.54	5.14	2.30	3.37	
	4.0	8.5	20.86	---	0.40	3.06	5.65	7.71	---	---	15
	10:50	26.838		---	---	0.12	2.18	5.64	---	---	
	16.0	8.0	21.21	6.50	0.37	2.63	5.48	7.11	8.32	2.78	16
	10:50	27.207		93.6	1.17	0.08	1.57	4.34	1.70	3.06	
2-1	0.2	11.0	19.48	---	0.28	2.57	5.37	9.08	---	---	17
	11:15	25.540		---	---	0.05	1.77	---	---	---	
	1.2	10.0	19.69	---	0.31	2.47	5.50	7.97	---	---	18
	11:15	25.613		---	---	0.06	1.44	---	---	---	
	4.0	15.0	18.73	---	0.29	2.44	5.49	8.36	---	---	19
	11:15	25.525		---	---	0.06	2.04	---	---	---	
	14.0	15.0	18.84	---	0.50	2.39	5.96	4.79	---	---	20
	11:15	25.661		---	---	0.14	2.21	---	---	---	
2-2	0.2	16.0	18.29	---	0.31	2.49	5.64	8.14	---	---	21
	11:25	25.216		---	---	0.07	2.29	6.14	---	---	
	1.2	15.0	18.47	---	0.32	2.45	6.19	7.63	---	---	22
	11:25	25.182		---	---	0.07	1.40	4.84	---	---	

GREAT BAY ESTUARINE DATA: CRUISE #17 5/25/77

STA #	DEPTH TIME	TEMP SAL	SIGMA-t	OXYGEN % SAT	PO4 TOT PO4	NO3 NO2	SiO4 NH4	NO3/PO4 SUSP Ld	pH CHL a	CARO PHAE	ROW #
	4.0	15.0	18.43	---	0.28	2.48	6.19	8.72	---	---	23
	11:25	25.128		---	---	0.06	2.15	6.14	---	---	
	16.0	15.0	18.55	---	0.31	2.54	5.66	8.29	---	---	24
	11:25	25.291		---	---	0.06	1.66	6.64	---	---	
2-3	0.2	17.0	17.57	---	0.27	2.16	5.08	8.05	---	---	25
	11:40	24.562		---	---	0.06	1.32	7.04	---	---	
	1.2	17.0	17.59	---	0.28	2.32	5.66	8.24	---	---	26
	11:40	24.586		---	---	0.07	2.32	7.44	---	---	
	4.0	16.5	17.76	---	0.30	2.36	4.38	7.92	---	---	27
	11:40	24.663		---	---	0.07	2.45	7.80	---	---	
	16.0	15.0	18.42	---	0.32	2.40	5.69	7.61	---	---	28
	11:40	25.115		---	---	0.07	2.11	7.04	---	---	
2-4	0.2	19.0	16.34	---	0.23	1.64	4.57	7.01	---	---	29
	12:00	23.542		---	---	0.04	1.27	7.24	---	---	
	1.2	18.0	16.51	---	0.20	1.54	4.13	7.62	---	---	30
	12:00	23.463		---	---	0.10	1.71	8.24	---	---	
	4.0	17.5	16.71.	---	0.40	1.65	4.89	4.10	---	---	31
	12:00	23.576		---	---	0.13	2.33	8.44	---	---	
	13.0	17.5	16.61	---	0.33	2.07	5.11	6.22	---	---	32
	12:00	23.442		---	---	0.12	2.24	9.24	---	---	
3	0.2	20.0	12.34	4.98	0.84	7.32	25.2	8.72	7.89	2.81	33
	12:20	18.577		87.5	6.93	0.39	10.58	6.54	1.60	2.39	
	1.2	18.0	13.29	5.16	0.94	6.38	22.8	6.77	7.97	3.60	34
	12:20	19.223		87.5	4.69	0.37	9.32	9.24	3.55	1.02	
	4.0	17.5	16.23	---	0.72	2.51	8.90	3.47	---	---	35
	12:20	22.940		---	---	0.18	2.30	10.44	---	---	
	9.0	16.5	17.02	3.98	0.52	2.89	9.01	5.53	8.19	4.60	36
	12:20	23.695		101.	1.56	0.19	3.09	11.74	3.20	4.27	
3-1	0.2	22.0	8.66	---	1.17	9.97	37.3	8.51	---	---	37
	12:32	14.331		---	---	0.52	---	6.64	---	---	
	1.2	21.0	11.28	---	0.95	7.13	27.1	7.53	---	---	38
	12:32	17.493		---	---	0.42	11.10	8.46	---	---	
	4.0	17.0	16.96	---	0.57	3.02	9.23	5.31	---	---	39
	12:32	23.756		---	---	0.19	4.33	8.04	---	---	
	7.0	12.0	21.49	---	0.64	2.51	7.89	3.90	---	---	40
	12:32	28.337		---	---	0.14	1.87	17.74	---	---	
3-2	0.2	20.0	13.37	---	0.19	1.40	5.01	7.24	---	---	41
	12:52	22.588		---	---	0.05	1.37	8.54	---	---	
	1.2	18.7	15.87	---	0.20	1.02	3.63	5.17	---	---	42
	12:52	22.828		---	---	0.10	1.31	7.14	---	---	
	4.0	18.0	16.09	---	0.22	1.18	3.83	5.48	---	---	43
	12:52	22.915		---	---	0.08	1.62	9.14	---	---	
	9.0	18.0	16.49	---	0.27	1.52	3.84	5.72	---	---	44
	12:52	23.439		---	---	0.11	1.35	7.84	---	---	

GREAT BAY ESTUARINE DATA: CRUISE #17 5/25/77

STA #	DEPTH TIME	TEMP SAL	SIGMA-t	OXYGEN % SAT	PO4 TOT PO4	NO3 NO2	SiO4 NH4	NO3/PO4 SUSP Ld	pH CHL a	CARO PHAE	ROW #
4	0.2	21.8	13.83	5.46	0.45	2.41	11.8	5.34	7.96	5.30	45
	13:07	21.143		101.	4.13	0.27	---	12.84	6.14	3.39	
	1.2	20.0	15.14	---	0.34	1.94	10.3	5.64	---	---	46
	13:07	22.280		---	0.98	0.15	2.66	13.04	---	---	
	3.0	17.8	16.32	5.96	0.25	0.89	4.58	3.61	8.15	6.05	47
	13:07	23.154		103.	---	0.07	1.03	9.44	0.00	---	
5	0.2	20.0	14.94	6.14	0.22	0.70	3.95	3.27	8.16	4.85	48
	13:25	22.011		110.	1.54	0.10	1.65	8.14	6.29	---	
	1.2	19.8	14.97	6.25	0.24	0.54	4.05	2.23	8.15	5.25	49
	13:25	21.984		112.	2.79	0.08	1.02	---	6.01	---	
	4.0	19.4	15.19	---	0.25	0.90	4.58	3.33	---	---	50
	13:25	22.149		---	---	0.07	1.30	10.14	---	---	
	9.5	19.2	15.14	6.18	0.17	0.71	2.92	4.13	8.19	5.35	51
	13:25	22.025		109.	1.31	0.00	1.33	---	5.34	4.47	
5-1	0.2	20.4	14.59	---	0.13	0.55	2.77	4.32	---	---	52
	13:34	21.685		---	---	0.00	1.42	8.04	---	---	
	1.2	20.0	14.67	---	0.21	0.41	3.10	1.91	---	---	53
	13:34	21.654		---	---	0.06	0.65	---	---	---	
	4.0	20.0	14.70	---	0.37	0.36	3.42	0.96	---	---	54
	13:34	21.697		---	---	0.06	0.89	8.54	---	---	
	13.0	17.8	16.41	---	0.36	1.70	4.16	4.67	---	---	55
	13:34	23.271		---	---	0.12	1.56	---	---	---	
6	0.2	21.0	14.21	6.15	0.21	0.46	4.15	2.25	8.14	3.75	56
	13:58	21.375		112.	1.11	0.06	0.84	6.74	4.27	3.02	
	1.2	21.0	14.20	6.08	0.36	0.35	3.10	0.97	8.16	3.50	57
	13:58	21.363		111.	1.27	0.01	0.69	---	4.01	3.00	
	4.0	20.0	14.55	---	0.18	0.44	3.73	2.46	---	---	58
	13:58	21.498		---	---	0.07	0.77	7.54	---	---	
	11.0	19.8	14.66	5.99	0.19	0.78	2.70	4.05	8.15	4.30	59
	13:58	21.587		107.	4.05	0.01	1.03	23.84	3.34	4.61	
7	0.2	23.9	13.06	5.82	0.29	0.66	4.15	2.31	8.10	3.65	60
	14:11	20.872		111.	1.83	0.10	1.30	8.44	3.47	3.82	
	1.2	21.4	13.78	5.84	0.37	0.38	3.83	1.03	8.12	4.15	61
	14:11	20.938		107.	1.77	0.18	1.45	---	3.74	4.39	
	6.0	19.5	14.92	5.89	0.29	1.54	4.05	5.31	8.07	6.45	62
	14:11	21.825		104.	---	0.11	2.37	16.74	4.41	6.25	

GREAT BAY ESTUARINE DATA: CRUISE #18 6/23/77

STA #	DEPTH / TIME	TEMP / SAL	SIGMA-t	OXYGEN / % SAT	PO4 / TOT PO4	NO3 / NO2	SiO4 / NH4	NO3/PO4 / SUSP Ld	pH / CHL a	CARO / PHAE	ROW #
1	0.2	13.2	23.26	6.62	0.00	0.50	6.85	---	---	---	1
	8:47	30.947		109.	---	0.33	1.48	1.70	---	---	
	1.2	13.0	23.30	6.63	0.00	0.73	2.60	---	---	---	2
	8:47	30.951		109.	---	0.10	1.44	1.60	---	---	
	4.0	13.0	23.32	---	0.02	0.56	7.78	34.71	---	---	3
	8:47	30.980		---	---	0.20	2.09	1.50	---	---	
	18.0	12.8	23.47	6.63	0.00	1.10	1.90	---	---	---	4
	8:47	31.113		109.	---	0.25	1.15	2.50	---	---	
1-1	0.2	14.0	22.83	---	0.00	1.11	3.14	---	---	---	5
	9:13	30.597		---	---	0.05	2.35	2.60	---	---	
	1.2	13.8	22.86	---	0.40	1.30	3.49	3.26	---	---	6
	9:13	30.583		---	---	0.65	2.11	2.34	---	---	
	4.0	13.5	22.97	---	0.04	1.69	7.07	40.97	---	---	7
	9:13	30.646		---	---	0.18	2.23	2.45	---	---	
	16.0	13.1	23.09	---	0.06	0.89	3.09	15.83	---	---	8
	9:13	30.703		---	---	0.16	1.95	2.04	---	---	
1-2	0.2	14.4	22.36	---	0.00	2.30	7.04	---	---	---	9
	9:30	30.096		---	---	0.08	2.73	---	---	---	
	1.2	14.2	22.31	---	0.04	1.75	3.99	47.96	---	---	10
	9:30	29.981		---	---	0.26	2.96	---	---	---	
	4.0	14.0	22.37	---	0.00	1.65	3.76	---	---	---	11
	9:30	30.000		---	---	0.26	2.94	---	---	---	
	18.0	14.0	22.38	---	0.04	1.59	4.03	38.95	---	---	12
	9:30	30.017		---	---	0.23	2.90	---	---	---	
2	0.2	14.8	21.90	6.02	0.05	2.42	4.29	53.41	---	---	13
	9:44	29.602		102.	---	0.24	3.31	3.70	---	---	
	1.2	14.5	21.94	5.93	0.04	2.68	4.31	61.35	---	---	14
	9:44	29.579		100.	---	0.21	---	3.50	---	---	
	4.0	14.4	21.96	---	0.00	2.75	5.12	---	---	---	15
	9:44	29.579		---	---	0.05	3.42	3.46	---	---	
	12.5	14.4	21.98	6.06	0.00	2.11	4.44	---	---	---	16
	9:44	29.594		102.	---	0.11	3.37	4.40	---	---	
2-1	0.2	16.0	21.36	---	0.12	2.93	5.02	23.93	---	---	17
	10:09	29.240		---	---	0.25	3.66	---	---	---	
	1.2	15.5	21.30	---	0.09	2.95	4.98	34.57	---	---	18
	10:09	29.019		---	---	0.25	3.65	---	---	---	
	4.0	15.2	21.38	---	0.02	2.28	4.95	91.30	---	---	19
	10:09	29.030		---	---	0.20	3.59	---	---	---	
	14.0	15.0	21.54	---	0.02	2.80	4.52	123.86	---	---	20
	10:09	29.183		---	---	0.15	3.56	---	---	---	
2-2	0.2	16.0	21.08	---	0.39	2.45	5.25	6.34	---	---	21
	10:18	28.867		---	---	0.29	3.59	4.94	---	---	
	1.2	15.8	21.07	---	0.09	2.95	5.16	33.65	---	---	22
	10:18	28.800		---	---	0.18	3.73	5.34	---	---	

GREAT BAY ESTUARINE DATA: CRUISE #18 6/23/77

STA #	DEPTH / TIME	TEMP / SAL	SIGMA-t	OXYGEN / % SAT	PO4 / TOT PO4	NO3 / NO2	SiO4 / NH4	NO3/PO4 / SUSP Ld	pH / CHL a	CARO / PHAE	ROW #
	4.0	15.5	21.18	---	0.09	2.89	5.16	31.12	---	---	23
	10:18	28.858		---	---	0.26	3.68	5.40	---	---	
	16.0	15.1	21.33	---	0.00	2.99	5.11	---	---	---	24
	10:18	28.939		---	---	0.24	3.74	5.04	---	---	
2-3	0.2	16.3	20.67	---	0.02	3.13	5.42	134.16	---	---	25
	10:38	28.416		---	---	0.16	3.65	5.40	---	---	
	1.2	16.1	20.72	---	0.12	2.50	5.60	21.23	---	---	26
	10:38	28.426		---	---	0.31	3.58	3.53	---	---	
	4.0	16.0	20.71	---	0.06	2.58	5.90	40.31	---	---	27
	10:38	28.391		---	---	0.24	3.76	5.54	---	---	
	14.5	16.0	20.78	---	0.01	2.98	5.49	470.17	---	---	28
	10:38	28.477		---	---	0.27	3.86	6.14	---	---	
2-4	0.2	16.8	20.22	---	0.00	3.08	5.51	---	---	---	29
	11:03	27.973		---	---	0.25	3.41	6.33	---	---	
	1.2	17.0	20.13	---	0.00	2.97	5.58	---	---	---	30
	11:03	27.921		---	---	0.27	3.52	6.46	---	---	
	4.0	17.0	20.15	---	0.00	3.10	5.72	---	---	---	31
	11:03	27.941		---	---	0.29	3.47	6.04	---	---	
	11.5	17.0	20.16	---	0.08	2.56	6.31	31.69	---	---	32
	11:03	27.953		---	---	0.25	3.50	6.14	---	---	
3	0.2	18.3	17.37	5.06	0.17	4.71	14.8	27.18	---	---	33
	11:17	24.691		89.2	---	0.37	7.22	9.59	---	---	
	1.2	18.0	17.24	5.20	0.32	4.93	16.4	15.50	---	---	34
	11:17	24.418		91.0	---	0.45	6.71	8.19	---	---	
	4.0	17.0	19.71	---	0.06	3.09	7.92	54.58	---	---	35
	11:17	27.367		---	---	0.26	4.80	8.59	---	---	
	8.5	16.2	20.28	5.62	0.09	3.33	4.05	36.70	---	---	36
	11:17	27.883		96.9	---	0.26	4.54	9.79	---	---	
3-1	0.2	19.1	14.47	---	0.07	7.30	25.5	100.91	---	---	37
	11:31	21.113		---	---	0.13	10.34	---	---	---	
	1.2	18.9	14.71	---	0.08	6.51	23.7	80.85	---	---	38
	11:31	21.363		---	---	0.29	9.82	6.49	---	---	
	4.0	17.6	18.22	---	0.34	4.37	12.8	12.91	---	---	39
	11:31	25.596		---	---	0.51	6.99	9.69	---	---	
	7.0	15.0	21.59	---	0.00	2.36	6.13	---	---	---	40
	11:31	29.252		---	---	0.26	5.18	14.12	---	---	
3-2	0.2	17.9	19.68	---	0.00	2.94	5.20	---	---	---	41
	11:49	27.606		---	---	0.26	2.96	6.79	---	---	
	1.2	17.8	19.71	---	0.00	2.82	3.73	---	---	---	42
	11:49	27.615		---	---	0.28	2.91	7.53	---	---	
	4.0	17.5	19.87	---	0.05	2.86	3.75	57.20	---	---	43
	11:49	27.734		---	---	0.26	3.06	6.46	---	---	
	10.0	17.2	19.96	---	0.05	2.99	5.23	59.05	---	---	44
	12:06	27.752		---	---	0.26	3.27	3.53	---	---	

GREAT BAY ESTUARINE DATA: CRUISE #18 6/23/77

STA #	DEPTH TIME	TEMP SAL	SIGMA-t	OXYGEN % SAT	PO4 TOT PO4	NO3 NO2	SiO4 NH4	NO3/PO4 SUSP Ld	pH CHL a	CARO PHAE	ROW #
4	0.2 12:06	19.0 26.821	18.82	5.29 95.7	0.09 ---	2.25 0.25	9.36 3.32	26.46 10.09	--- ---	--- ---	45
	1.2 12:06	19.0 27.014	18.97	--- ---	0.12 ---	2.56 0.26	9.01 3.46	22.18 12.79	--- ---	--- ---	46
	3.0 12:06	19.5 27.242	19.02	5.32 97.5	0.11 ---	2.64 0.24	8.26 3.76	23.87 12.79	--- ---	--- ---	47
5	0.2 12:22	18.5 26.946	19.04	5.56 100.	0.00 ---	2.48 0.06	5.85 2.53	--- 8.39	--- ---	--- ---	48
	1.2 12:22	18.1 26.991	19.17	5.46 97.2	0.09 ---	2.84 0.26	5.85 2.54	30.66 9.59	--- ---	--- ---	49
	4.0 12:22	18.1 27.020	19.19	--- ---	0.07 ---	2.25 0.28	6.00 2.59	30.48 8.46	--- ---	--- ---	50
	6.8 12:22	18.1 27.017	19.19	5.29 94.2	0.18 ---	2.30 0.27	5.83 2.57	13.13 9.59	--- ---	--- ---	51
5-1	0.2 12:35	18.6 26.540	18.71	--- ---	0.07 ---	2.78 0.16	6.02 2.34	40.65 8.19	--- ---	--- ---	52
	1.2 12:35	18.8 26.522	18.65	--- ---	0.05 ---	2.09 0.27	6.24 2.10	39.03 7.99	--- ---	--- ---	53
	4.0 12:35	18.4 26.706	18.88	--- ---	0.07 ---	2.19 0.29	6.07 2.41	31.84 8.19	--- ---	--- ---	54
	12.0 12:35	17.9 27.187	19.36	--- ---	0.22 ---	2.83 0.26	5.43 2.89	12.86 8.94	--- ---	--- ---	55
6	0.2 12:54	19.0 26.325	18.45	5.43 98.0	0.03 ---	2.00 0.26	6.71 1.91	70.47 9.89	--- ---	--- ---	56
	1.2 12:54	19.4 26.104	18.18	5.26 95.5	0.42 ---	1.58 0.65	7.22 1.91	3.72 9.59	--- ---	--- ---	57
	4.0 12:54	19.3 26.392	18.43	--- ---	0.09 ---	1.99 0.29	6.32 2.05	21.67 8.09	--- ---	--- ---	58
	14.5 12:54	18.9 26.630	18.70	5.20 93.8	0.10 ---	2.17 0.28	7.57 2.58	21.05 ---	--- ---	--- ---	59
7	0.2 13:12	20.0 24.790	17.04	5.24 95.5	0.13 ---	2.84 0.08	10.1 3.70	21.14 ---	--- ---	--- ---	60
	1.2 13:12	20.0 25.603	17.65	5.28 96.7	0.09 ---	1.99 0.29	8.01 2.30	21.20 14.69	--- ---	--- ---	61
	4.0 13:12	19.8 25.967	17.98	--- ---	0.07 ---	1.92 0.27	7.23 1.95	29.54 13.69	--- ---	--- ---	62
	3.5 13:12	19.2 25.603	17.85	5.41 97.6	0.30 ---	2.09 0.50	7.45 3.07	7.00 11.69	--- ---	--- ---	63

GREAT BAY ESTUARINE DATA: CRUISE #19 7/21/77

STA #	DEPTH TIME	TEMP SAL	SIGMA-t	OXYGEN % SAT	PO4 TOT PO4	NO3 NO2	SiO4 NH4	NO3/PO4 SUSP Ld	pH CHL a	CARO PHAE	ROW #
1	0.2	14.3	23.28	5.57	0.48	2.04	3.75	4.23	8.05	1.01	1
	8:25	31.258		94.3	---	0.14	3.12	2.11	0.90	0.43	
	1.2	14.2	23.31	6.38	0.52	1.99	3.71	3.81	8.04	1.16	2
	8:25	31.275		108.	2.19	0.15	2.91	1.97	1.00	0.75	
	4.0	14.0	23.37	---	0.54	2.10	3.76	3.89	---	---	3
	8:25	31.299		---	---	0.15	2.96	2.11	---	---	
	15.0	13.6	23.51	6.53	0.47	1.77	3.71	3.77	8.07	1.05	4
	8:25	31.382		109.	2.06	0.14	2.81	2.54	0.70	1.12	
1-1	0.2	15.0	23.01	---	0.58	1.60	3.80	2.76	---	---	5
	8:45	31.105		---	---	0.22	3.37	2.41	---	---	
	1.2	14.9	23.06	---	0.56	1.59	3.60	2.85	---	---	6
	8:45	31.145		---	---	0.17	3.73	2.36	---	---	
	15.0	14.0	23.36	---	0.46	1.84	3.45	3.98	---	---	7
	8:45	31.291		---	---	0.14	3.62	2.11	---	---	
1-2	0.2	18.0	22.03	---	0.68	2.04	3.91	3.00	---	---	8
	9:05	30.711		---	---	0.23	4.27	---	---	---	
	1.2	17.8	22.08	---	0.68	2.55	4.50	3.73	---	---	9
	9:05	30.724		---	---	0.23	3.76	---	---	---	
	4.0	17.5	22.15	---	0.67	1.96	3.94	2.94	---	---	10
	9:05	30.724		---	---	0.22	4.36	---	---	---	
	16.0	17.3	22.21	---	0.77	1.99	3.84	2.60	---	---	11
	9:05	30.729		---	---	0.23	3.76	---	---	---	
2	0.2	18.2	21.90	5.72	0.71	2.14	4.01	3.03	7.99	1.09	12
	9:23	30.604		104.	4.37	0.25	4.22	3.81	0.30	1.31	
	1.2	18.1	21.90	---	0.73	2.16	3.91	2.96	7.86	1.35	13
	9:23	30.579		---	2.30	0.24	4.17	3.96	0.40	1.42	
	4.0	18.0	21.91	---	0.73	2.60	4.17	3.57	---	---	14
	9:23	30.556		---	---	0.25	4.60	3.81	---	---	
	15.0	18.0	21.96	5.84	0.71	1.98	4.14	2.80	7.96	1.35	15
	9:23	30.631		106.	2.32	0.24	4.42	5.21	0.50	1.25	
2-1	0.2	20.4	21.08	---	0.76	2.18	4.37	2.86	---	---	16
	9:56	30.257		---	---	0.27	4.56	---	---	---	
	1.2	19.9	21.21	---	0.84	2.68	5.00	3.18	---	---	17
	9:56	30.259		---	---	0.27	3.49	---	---	---	
	4.0	19.8	20.81	---	0.79	2.82	4.80	3.58	---	---	18
	9:56	29.696		---	---	0.27	4.15	---	---	---	
	15.5	19.0	21.46	---	0.80	2.14	4.11	2.67	---	---	19
	9:56	30.289		---	---	0.27	4.15	---	---	---	
2-2	0.2	20.8	20.89	---	0.82	2.68	4.80	3.26	---	---	20
	10:08	30.146		---	---	0.28	4.00	5.43	---	---	
	1.2	20.0	21.09	---	0.83	2.14	4.25	2.57	---	---	21
	10:08	30.142		---	---	0.27	3.95	---	---	---	
	4.0	20.0	21.10	---	0.81	2.71	4.57	3.33	---	---	22
	10:08	30.145		---	---	0.28	4.44	5.71	---	---	

GREAT BAY ESTUARINE DATA: CRUISE #19 7/21/77

STA #	DEPTH TIME	TEMP SAL	SIGMA-t	OXYGEN % SAT	PO4 TOT PO4	NO3 NO2	SiO4 NH4	NO3/PO4 SUSP Ld	pH CHL a	CARO PHAE	ROW #
	15.0	19.9	21.15	---	0.78	2.11	4.24	2.70	---	---	23
	10:08	30.178		---	---	0.28	4.61	---	---	---	
2-3	0.2	21.0	20.67	---	---	---	4.76	---	---	---	24
	10:21	29.932		---	---	0.28	4.11	5.26	---	---	
	1.2	21.0	20.68	---	0.83	2.85	4.66	3.41	---	---	25
	10:21	29.936		---	---	0.26	3.14	6.33	---	---	
	4.0	20.8	20.75	---	0.81	2.13	4.37	2.62	---	---	26
	10:21	29.966		---	---	0.28	3.18	6.42	---	---	
	16.0	20.0	21.01	---	0.81	2.81	5.57	3.45	---	---	27
	10:21	30.034		---	---	0.29	3.82	6.21	---	---	
2-4	0.2	22.2	20.33	---	0.81	2.05	4.72	2.52	---	---	28
	10:45	29.902		---	---	0.27	2.80	6.23	---	---	
	1.2	21.8	20.45	---	1.27	2.79	4.99	2.20	---	---	29
	10:45	29.921		---	---	0.27	3.38	5.56	---	---	
	4.0	21.5	20.44	---	0.88	2.48	5.18	2.83	---	---	30
	10:45	29.799		---	---	0.28	3.20	5.43	---	---	
	16.0	21.3	20.54	---	0.82	1.98	4.54	2.42	---	---	31
	10:45	29.861		---	---	0.26	2.85	6.35	---	---	
3	0.2	24.1	17.52	5.04	1.45	3.43	8.09	2.37	7.80	3.53	32
	11:00	26.875		100.	---	0.42	2.45	6.33	3.10	2.29	
	1.2	23.2	18.40	---	1.23	3.32	7.46	2.71	7.86	3.75	33
	11:00	27.714		---	---	0.40	3.13	---	3.40	2.34	
	4.0	22.1	19.87	---	0.95	2.18	5.31	2.29	---	---	34
	11:00	29.261		---	---	0.30	2.64	7.43	---	---	
	8.5	21.1	20.37	5.31	0.92	2.31	5.17	2.52	7.91	2.06	35
	11:00	29.567		102.	---	0.30	3.47	7.53	1.40	1.40	
3-1	0.2	25.8	15.12	---	1.71	3.59	11.3	2.10	---	---	36
	11:11	24.341		---	---	0.49	2.29	5.53	---	---	
	1.2	24.8	16.31	---	1.52	3.71	9.77	2.44	---	---	37
	11:11	25.535		---	---	0.47	2.01	6.03	---	---	
	4.0	23.8	17.96	---	1.26	2.82	7.55	2.23	---	---	38
	11:11	27.351		---	---	0.40	4.53	7.63	---	---	
	8.5	21.4	19.93	---	---	---	6.46	---	---	---	39
	11:11	29.086		---	---	0.36	4.96	22.33	---	---	
3-2	0.2	23.0	19.98	---	0.80	1.73	4.86	2.17	---	---	40
	11:30	29.728		---	---	0.26	1.81	6.63	---	---	
	1.2	22.8	20.06	---	0.81	1.87	4.80	2.32	---	---	41
	11:30	29.773		---	---	0.26	2.15	---	---	---	
	4.0	22.8	20.09	---	0.82	1.87	4.61	2.30	---	---	42
	11:30	29.813		---	---	0.26	2.21	8.83	---	---	
	13.0	22.2	20.28	---	0.83	2.48	4.44	3.01	---	---	43
	11:30	29.843		---	---	0.27	3.26	---	---	---	
4	0.2	25.8	18.76	4.94	1.03	0.51	8.82	0.49	7.76	5.03	44
	11:46	29.190		103.	2.18	0.20	1.28	9.93	4.71	3.84	

GREAT BAY ESTUARINE DATA: CRUISE #19 7/21/77

STA #	DEPTH / TIME	TEMP / SAL	SIGMA-t	OXYGEN / % SAT	PO4 / TOT PO4	NO3 / NO2	SiO4 / NH4	NO3/PO4 / SUSP Ld	pH / CHL a	CARO / PHAE	ROW #
	1.2	25.0	19.01	---	1.01	0.80	8.66	0.79	---	---	45
	11:46	29.208		---	---	0.18	0.85	11.03	---	---	
	3.5	23.4	19.77	---	0.84	1.82	5.93	2.18	7.83	3.26	46
	11:46	29.601		---	2.81	0.25	1.47	10.23	2.70	2.34	
5	0.2	24.5	19.37	5.14	0.78	0.93	4.94	1.19	7.88	3.53	47
	12:03	29.487		104.	2.70	0.20	1.12	7.43	2.70	2.90	
	1.2	24.0	19.53	---	0.80	1.04	4.64	1.30	7.88	3.79	48
	12:03	29.512		---	2.79	0.20	1.01	8.13	3.70	1.20	
	4.0	23.9	19.58	---	0.82	1.15	5.04	1.41	---	---	49
	12:03	29.545		---	---	0.22	1.41	9.23	---	---	
	8.5	23.8	19.61	5.08	0.82	1.53	5.62	1.87	7.88	3.68	50
	12:03	29.544		102.	2.80	0.21	1.47	9.13	2.70	2.62	
5-1	0.2	24.7	19.30	---	0.80	0.86	5.20	1.08	---	---	51
	12:17	29.481		---	---	0.16	1.54	6.73	---	---	
	1.2	24.8	19.26	---	0.75	0.56	4.90	0.75	---	---	52
	12:17	29.456		---	---	0.17	0.81	---	---	---	
	4.0	24.0	19.51	---	0.82	1.29	5.21	1.58	---	---	53
	12:17	29.485		---	---	0.20	1.42	7.93	---	---	
	12.5	23.4	19.75	---	0.83	1.74	5.14	2.11	---	---	54
	12:17	29.583		---	---	0.23	1.57	---	---	---	
6	0.2	25.2	19.07	5.15	0.77	0.32	4.92	0.41	7.84	4.28	55
	12:33	29.371		106.	2.95	0.13	0.74	8.43	3.60	2.98	
	1.2	25.2	19.07	---	0.83	0.57	5.36	0.68	7.84	4.31	56
	12:33	29.368		---	2.95	0.10	0.90	8.33	3.40	3.53	
	4.0	24.7	19.22	---	0.84	0.89	5.37	1.05	---	---	57
	12:33	29.369		---	---	0.16	1.26	10.83	---	---	
	15.0	24.2	19.44	5.05	0.86	1.28	5.58	1.49	7.87	4.65	58
	12:33	29.467		102.	---	0.20	1.66	18.83	2.80	3.78	
7	0.2	26.0	18.68	5.08	0.78	0.50	5.77	0.64	7.89	4.09	59
	12:57	29.162		106.	3.49	0.13	0.78	7.83	3.40	3.53	
	1.2	25.3	18.92	---	0.90	0.50	5.83	0.56	7.86	4.88	60
	12:57	29.204		---	3.34	0.11	1.37	9.03	4.21	3.64	
	4.0	24.8	19.17	---	0.88	0.64	5.27	0.73	---	---	61
	12:57	29.341		---	---	0.17	1.41	13.03	---	---	
	7.0	24.7	19.21	5.12	0.86	0.88	5.57	1.02	7.86	4.76	62
	12:57	29.351		104.	3.38	0.17	1.72	16.23	2.90	3.82	

GREAT BAY ESTUARINE DATA: CRUISE #20 8/23/77

STA #	DEPTH TIME	TEMP SAL	SIGMA-t	OXYGEN % SAT	PO4 TOT PO4	NO3 NO2	SiO4 NH4	NO3/PO4 SUSP Ld	pH CHL a	CARO PHAE	ROW #
1	0.2 10:55	12.0 31.708	24.08	5.78 93.6	0.58 1.62	2.79 0.32	4.64 1.51	4.79 1.77	7.82 2.20	1.50 0.18	1
	1.2 10:55	11.7 31.704	24.13	6.01 96.7	0.60 1.07	2.92 0.28	5.26 1.51	4.85 2.17	7.91 2.50	2.03 0.37	2
	4.0 10:55	11.7 31.721	24.14	--- ---	0.58 ---	2.99 0.27	4.65 1.64	5.18 2.18	--- ---	--- ---	3
	12.5 10:55	10.0 31.780	24.48	5.86 90.9	0.55 0.90	3.13 0.24	4.47 ---	5.72 1.62	7.90 2.30	2.18 0.43	4
1-1	0.2 11:30	13.0 31.573	23.78	--- ---	0.66 ---	2.79 0.27	5.13 2.11	4.20 2.10	--- ---	--- ---	5
	1.2 11:30	12.6 31.553	23.84	--- ---	0.67 ---	2.86 0.30	4.67 1.55	4.26 2.90	--- ---	--- ---	6
	4.0 11:30	12.1 31.587	23.96	--- ---	0.61 ---	2.95 0.31	4.85 2.00	4.81 ---	--- ---	--- ---	7
	15.0 11:30	12.0 31.663	24.04	--- ---	0.60 ---	2.76 0.29	5.04 1.68	4.57 0.84	--- ---	--- ---	8
1-2	0.2 11:55	14.0 31.397	23.45	--- ---	0.74 ---	2.90 0.34	9.39 2.49	3.91 ---	--- ---	--- ---	9
	1.2 11:55	13.9 31.361	23.44	--- ---	0.77 ---	3.09 0.31	5.05 2.51	4.01 ---	--- ---	--- ---	10
	4.0 11:55	13.7 31.362	23.48	--- ---	0.83 ---	2.89 0.32	6.61 2.71	3.47 ---	--- ---	--- ---	11
	15.0 11:55	13.6 31.339	23.48	--- ---	0.76 ---	2.84 0.32	5.02 2.58	3.73 ---	--- ---	--- ---	12
2	0.2 12:09	14.5 31.210	23.20	5.47 93.0	0.83 1.00	2.99 0.38	5.04 2.72	3.59 ---	7.87 0.90	1.13 0.50	13
	1.2 12:09	14.5 31.212	23.20	5.50 93.5	0.82 1.17	2.88 0.37	5.61 2.74	3.49 2.70	7.82 0.20	1.31 1.62	14
	4.0 12:09	14.2 31.219	23.27	--- ---	0.82 ---	3.01 0.33	5.38 2.78	3.65 2.15	--- ---	--- ---	15
	15.0 12:09	14.0 31.212	23.30	5.36 90.2	0.84 1.30	3.02 0.37	5.27 ---	3.59 2.69	7.89 0.90	1.50 0.85	16
2-1	0.2 12:40	16.0 31.026	22.73	--- ---	1.06 ---	3.04 0.38	5.66 3.05	2.88 2.39	--- ---	--- ---	17
	1.2 12:40	15.0 31.025	22.95	--- ---	0.92 ---	3.07 0.35	11.4 3.14	3.35 ---	--- ---	--- ---	18
	4.0 12:40	15.0 31.026	22.95	--- ---	0.73 ---	3.03 0.39	6.23 3.02	4.12 2.44	--- ---	--- ---	19
	15.0 12:40	15.0 31.058	22.97	--- ---	0.88 ---	2.85 0.38	6.21 2.95	3.22 2.94	--- ---	--- ---	20
2-2	0.2 12:52	16.0 30.941	22.67	--- ---	0.94 ---	3.14 0.35	5.86 3.05	3.35 ---	--- ---	--- ---	21
	1.2 12:52	15.6 30.964	22.77	--- ---	0.92 ---	3.15 0.39	6.03 3.03	3.44 ---	--- ---	--- ---	22

GREAT BAY ESTUARINE DATA: CRUISE #20 8/23/77

STA #	DEPTH / TIME	TEMP / SAL	SIGMA-t	OXYGEN / % SAT	PO4 / TOT PO4	NO3 / NO2	SiO4 / NH4	NO3/PO4 / SUSP Ld	pH / CHL a	CARO / PHAE	ROW #
	4.0	15.4	22.82	---	0.93	2.85	5.83	3.08	---	---	23
	12:52	30.967		---	---	0.39	3.08	---	---	---	
	15.0	15.2	22.86	---	0.93	3.05	8.75	3.29	---	---	24
	12:52	30.962		---	---	0.38	2.99	---	---	---	
2-3	0.2	16.0	22.59	---	---	---	---	---	---	---	25
	13:05	30.838		---	---	---	3.10	3.64	---	---	
	1.2	16.0	22.60	---	0.99	3.00	8.06	3.04	---	---	26
	13:05	30.852		---	---	0.37	3.16	5.75	---	---	
	4.0	16.0	22.63	---	0.98	3.06	7.15	3.13	---	---	27
	13:05	30.893		---	---	0.38	3.48	3.94	---	---	
	15.0	15.7	22.73	---	0.97	3.01	5.76	3.12	---	---	28
	13:05	30.944		---	---	0.38	3.04	---	---	---	
2-4	0.2	17.0	22.32	---	0.98	3.01	11.4	3.08	---	---	29
	13:23	30.790		---	---	0.38	3.07	2.30	---	---	
	1.2	16.5	22.44	---	0.99	2.98	6.76	3.01	---	---	30
	13:23	30.796		---	---	0.39	3.03	2.70	---	---	
	4.0	16.2	22.50	---	0.99	2.97	7.06	3.01	---	---	31
	13:23	30.783		---	---	0.39	2.97	3.44	---	---	
	12.0	16.1	22.52	---	1.00	3.09	9.04	3.09	---	---	32
	13:23	30.777		---	---	0.39	3.05	---	---	---	
3	0.2	18.2	20.18	4.91	---	---	---	---	7.79	1.31	33
	13:37	28.356		88.3	1.78	---	6.10	2.54	0.90	1.48	
	1.2	18.0	20.61	4.94	1.47	4.04	9.22	2.76	7.73	1.88	34
	13:37	28.849		88.8	1.87	0.52	5.33	3.34	1.40	1.40	
	4.0	16.9	21.85	---	1.17	3.17	6.98	2.70	---	---	35
	13:37	30.143		---	---	0.46	4.00	4.60	---	---	
	7.0	16.2	22.18	5.24	1.11	3.12	6.89	2.81	7.67	1.54	36
	13:37	30.363		91.7	2.20	0.40	3.56	5.14	0.10	2.56	
3-1	0.2	19.5	17.86	---	2.01	5.97	10.3	2.97	---	---	37
	13:50	25.716		---	---	0.77	9.78	3.10	---	---	
	1.2	18.7	19.09	---	1.80	4.95	11.3	2.76	---	---	38
	13:50	27.070		---	---	0.71	8.48	5.09	---	---	
	4.0	18.0	20.02	---	1.68	4.55	11.1	2.71	---	---	39
	13:50	28.075		---	---	0.58	7.06	3.84	---	---	
	7.5	18.2	20.72	---	1.45	3.85	8.25	2.67	---	---	40
	13:50	29.060		---	---	0.57	5.68	5.00	---	---	
3-2	0.2	18.0	21.87	---	1.03	2.71	7.54	2.63	---	---	41
	14:06	30.513		---	---	0.35	2.63	3.00	---	---	
	1.2	17.3	22.11	---	1.02	2.64	7.26	2.59	---	---	42
	14:06	30.606		---	---	0.35	2.54	2.94	---	---	
	4.0	17.0	22.22	---	1.00	2.65	6.99	2.65	---	---	43
	14:06	30.655		---	---	0.38	---	3.94	---	---	
	9.0	16.9	22.29	---	1.01	2.70	6.76	2.68	---	---	44
	14:06	30.712		---	---	0.39	2.94	3.40	---	---	

GREAT BAY ESTUARINE DATA: CRUISE #20 8/23/77

STA #	DEPTH TIME	TEMP SAL	SIGMA-t	OXYGEN % SAT	PO4 TOT PO4	NO3 NO2	SiO4 NH4	NO3/PO4 SUSP Ld	pH CHL a	CARO PHAE	ROW #
4	0.2	18.9	20.93	5.03	1.36	2.87	12.3	2.11	7.72	1.50	45
	14:19	29.556		92.4	2.17	0.42	4.51	---	1.30	1.08	
	1.2	18.3	21.20	---	1.36	3.04	12.2	2.24	---	---	46
	14:19	29.726		---	---	0.42	4.38	5.80	---	---	
	4.0	18.2	21.21	5.10	1.36	3.03	12.9	2.23	7.77	1.80	47
	14:19	29.700		92.5	2.02	0.41	4.25	---	1.20	1.81	
5	0.2	19.0	21.17	5.34	1.35	2.32	10.1	1.72	7.74	1.35	48
	14:32	29.903		98.4	2.31	0.40	4.44	5.14	0.90	1.55	
	1.2	18.2	---	5.30	1.27	2.46	9.14	1.95	7.76	2.14	49
	14:32	---		96.3	1.79	0.39	3.58	---	1.80	1.42	
	4.0	18.0	21.84	---	1.12	2.58	8.01	2.30	---	---	50
	14:32	30.466		---	---	0.38	2.83	3.50	---	---	
	9.0	17.5	22.06	5.30	1.03	2.59	7.70	2.52	7.69	1.69	51
	14:32	30.601		95.3	2.31	0.38	2.75	3.24	1.60	0.71	
5-1	0.2	18.7	21.63	---	1.05	2.23	8.22	2.12	---	---	52
	14:42	30.414		---	---	0.35	1.96	2.44	---	---	
	1.2	18.4	21.70	---	1.03	2.14	7.84	2.07	---	---	53
	14:42	30.408		---	---	0.38	2.06	4.46	---	---	
	4.0	18.0	21.80	---	1.09	2.15	8.21	1.97	---	---	54
	14:42	30.410		---	---	0.35	2.04	3.44	---	---	
	13.5	18.0	21.80	---	1.07	2.24	8.00	2.09	---	---	55
	14:42	30.421		---	---	0.37	2.02	3.74	---	---	
6	0.2	19.2	21.41	5.72	1.08	1.87	8.51	1.73	7.88	1.76	56
	15:14	30.285		106.	1.85	0.38	1.71	---	2.50	0.51	
	1.2	18.8	21.51	5.60	1.05	1.94	9.14	1.85	7.81	2.10	57
	15:14	30.287		103.	1.80	0.37	---	4.59	1.90	1.88	
	4.0	18.8	21.53	---	1.07	2.00	10.0	1.87	---	---	58
	15:14	30.319		---	2.04	0.33	1.85	4.40	---	---	
	12.5	18.4	21.63	5.49	1.03	2.05	8.68	1.98	7.81	2.18	59
	15:14	30.317		100.	---	0.35	1.95	3.94	1.50	1.72	
7	0.2	19.8	21.12	5.68	1.09	1.79	9.87	1.64	7.86	2.14	60
	15:32	30.108		106.	2.30	0.34	1.91	4.00	2.00	1.43	
	1.2	19.8	21.12	5.68	1.16	1.70	11.6	1.46	7.78	2.06	61
	15:32	30.115		106.	2.58	0.33	1.99	2.00	2.60	0.27	
	4.0	19.2	21.35	---	1.10	1.69	9.62	1.53	---	---	62
	15:32	30.213		---	---	0.31	1.92	6.64	---	---	
	6.0	19.0	21.41	5.73	1.06	1.62	10.1	1.53	7.78	1.84	63
	15:32	30.222		106.	1.74	0.32	1.84	3.44	1.30	1.50	

GREAT BAY ESTUARINE DATA: CRUISE #21 9/20/77

STA #	DEPTH / TIME	TEMP / SAL	SIGMA-t	OXYGEN / % SAT	PO4 / TOT PO4	NO3 / NO2	SiO4 / NH4	NO3/PO4 / SUSP Ld	pH / CHL a	CARO / PHAE	ROW #
1	0.2	12.0	24.15	5.57	0.84	3.02	10.5	3.58	7.84	1.35	1
	10:11	31.797		90.2	1.59	0.41	0.39	2.24	1.10	0.51	
	1.2	12.0	24.14	5.60	0.92	2.93	15.7	3.17	7.84	2.10	2
	10:11	31.793		90.7	1.39	0.42	0.32	1.89	1.00	1.38	
	4.0	12.0	24.12	---	0.88	3.09	9.57	3.50	---	---	3
	10:11	31.765		---	---	0.41	---	1.91	---	---	
	13.0	12.0	24.13	5.50	0.90	3.15	10.3	3.48	7.83	2.55	4
	10:11	31.772		89.1	1.31	0.43	0.39	2.76	1.10	1.63	
1-1	0.2	11.8	24.09	---	0.91	3.18	6.25	3.48	---	---	5
	10:30	31.682		---	---	0.44	---	1.66	---	---	
	1.2	12.0	24.21	---	0.91	3.12	8.25	3.41	---	---	6
	10:30	31.886		---	---	0.43	---	1.83	---	---	
	4.0	12.2	24.03	---	0.97	3.27	7.36	3.39	---	---	7
	10:30	31.699		---	---	0.43	---	1.55	---	---	
	15.0	12.2	24.11	---	0.84	2.99	6.56	3.54	---	---	8
	10:30	31.793		---	---	0.46	---	1.55	---	---	
1-2	0.2	12.5	23.85	---	0.97	3.33	12.0	3.42	---	---	9
	10:40	31.538		---	---	0.45	---	---	---	---	
	1.2	12.8	23.80	---	1.03	3.47	10.4	3.38	---	---	10
	10:40	31.544		---	---	0.47	---	---	---	---	
	4.0	13.0	23.72	---	1.06	3.24	15.5	3.07	---	---	11
	10:40	31.497		---	---	0.46	---	---	---	---	
	15.0	13.0	23.70	---	1.02	3.40	10.1	3.34	---	---	12
	10:40	31.473		---	---	0.45	---	---	---	---	
2	0.2	13.0	23.64	5.13	1.02	3.50	8.56	3.44	7.66	1.01	13
	11:04	31.389		84.6	1.61	0.47	0.69	2.35	0.50	0.62	
	1.2	13.2	23.59	5.17	1.05	3.45	6.45	3.27	7.80	1.58	14
	11:04	31.370		85.7	1.37	0.48	0.70	2.65	0.60	0.94	
	4.0	13.2	23.60	---	1.07	3.51	8.92	3.29	---	---	15
	11:04	31.388		---	---	0.47	---	2.75	---	---	
	14.0	13.2	23.60	5.17	1.11	3.59	7.06	3.24	7.81	1.54	16
	11:04	31.395		85.7	1.47	0.49	0.69	3.08	0.90	0.43	
2-1	0.2	13.3	23.50	---	1.14	3.66	7.56	3.21	---	---	17
	11:27	31.281		---	---	0.55	---	2.80	---	---	
	1.2	13.4	23.42	---	1.15	3.79	6.34	3.30	---	---	18
	11:27	31.205		---	---	0.54	---	2.90	---	---	
	4.0	13.6	23.36	---	1.15	3.62	8.29	3.14	---	---	19
	11:27	31.185		---	---	0.51	---	3.05	---	---	
	15.0	13.6	22.61	---	1.10	3.55	6.68	3.23	---	---	20
	11:27	30.206		---	---	0.50	---	3.25	---	---	
2-2	0.2	13.4	23.36	---	1.12	3.60	6.92	3.23	---	---	21
	11:39	31.133		---	---	0.49	---	---	---	---	
	1.2	13.6	23.39	---	---	---	10.5	---	---	---	22
	11:39	31.214		---	---	0.50	---	---	---	---	

GREAT BAY ESTUARINE DATA: CRUISE #21 9/20/77

STA #	DEPTH / TIME	TEMP / SAL	SIGMA-t	OXYGEN / % SAT	PO4 / TOT PO4	NO3 / NO2	SiO4 / NH4	NO3/PO4 / SUSP Ld	pH / CHL a	CARO / PHAE	ROW #
	4.0	13.7	23.31	---	1.12	3.63	6.76	3.24	---	---	23
	11:39	31.147		---	---	0.50	---	---	---	---	
	15.0	13.6	23.34	---	1.18	3.63	7.96	3.07	---	---	24
	11:39	31.154		---	---	0.54	---	---	---	---	
2-3	0.2	14.0	23.07	---	1.16	3.72	6.88	3.20	---	---	25
	11:54	30.908		---	---	0.52	---	6.95	---	---	
	1.2	14.0	23.08	---	1.21	3.81	7.58	3.14	---	---	26
	11:54	30.921		---	---	0.52	---	3.95	---	---	
	4.0	14.0	23.09	---	1.24	3.73	8.07	3.00	---	---	27
	11:54	30.940		---	---	0.53	---	3.75	---	---	
	14.0	14.0	23.12	---	1.18	3.60	6.74	3.05	---	---	28
	11:54	30.972		---	---	0.53	---	4.15	---	---	
2-4	0.2	14.0	22.97	---	1.18	3.63	6.91	3.06	---	---	29
	12:14	30.774		---	---	0.46	---	3.35	---	---	
	1.2	14.1	22.95	---	1.26	3.76	13.2	2.97	---	---	30
	12:14	30.780		---	---	0.55	---	3.35	---	---	
	4.0	14.0	23.06	---	1.22	3.67	6.58	3.00	---	---	31
	12:14	30.896		---	---	0.54	---	3.40	---	---	
	14.0	14.3	23.03	---	1.22	3.62	7.20	2.96	---	---	32
	12:14	30.937		---	---	0.52	---	3.75	---	---	
3	0.2	15.3	20.42	4.91	1.85	6.23	11.1	3.37	7.57	2.78	33
	12:29	27.813		83.1	2.48	0.89	3.94	3.35	2.00	1.22	
	1.2	15.3	20.21	4.82	1.93	6.25	11.4	3.24	7.52	2.78	34
	12:29	27.541		81.5	2.62	0.88	4.41	4.25	1.40	1.75	
	4.0	15.3	22.44	---	1.27	3.94	7.16	3.11	---	---	35
	12:29	30.439		---	---	0.57	---	3.95	---	---	
	9.5	15.2	22.60	5.04	1.26	3.84	6.90	3.06	7.55	1.80	36
	12:29	30.632		86.6	1.94	0.55	1.25	4.10	1.00	1.03	
3-1	0.2	15.5	18.17	---	2.29	---	14.0	---	---	---	37
	12:45	24.924		---	---	1.18	---	3.85	---	---	
	1.2	15.9	18.28	---	2.23	8.18	13.4	3.66	---	---	38
	12:45	25.172		---	---	1.11	---	4.25	---	---	
	4.0	15.2	21.44	---	2.00	5.94	8.87	2.97	---	---	39
	12:45	29.114		---	---	0.75	---	5.50	---	---	
	7.0	15.2	22.18	---	1.40	4.10	7.71	2.93	---	---	40
	12:45	30.076		---	---	0.63	---	8.59	---	---	
3-2	0.2	14.7	22.72	---	1.19	3.71	7.15	3.13	---	---	41
	13:03	30.649		---	---	0.50	---	4.75	---	---	
	1.2	14.8	22.73	---	1.16	3.37	6.79	2.90	---	---	42
	13:03	30.681		---	---	0.50	---	4.62	---	---	
	4.0	15.0	22.74	---	1.19	3.44	6.44	2.88	---	---	43
	13:03	30.752		---	---	0.52	---	4.52	---	---	
	9.5	14.9	22.78	---	---	---	6.86	---	---	---	44
	13:03	30.773		---	---	0.52	---	3.85	---	---	

GREAT BAY ESTUARINE DATA: CRUISE #21 9/20/77

STA #	DEPTH / TIME	TEMP / SAL	SIGMA-t	OXYGEN / % SAT	PO4 / TOT PO4	NO3 / NO2	SiO4 / NH4	NO3/PO4 / SUSP Ld	pH / CHL a	CARO / PHAE	ROW #
4	0.2	15.0	22.07	5.07	1.40	3.07	10.5	2.19	7.60	3.30	45
	13:19	29.875		86.4	2.02	0.49	1.31	4.90	2.20	1.72	
	1.2	14.8	22.09	---	1.35	2.96	10.2	2.19	---	---	46
	13:19	29.856		---	---	0.47	---	5.35	---	---	
	2.0	14.8	22.15	4.99	1.38	3.10	10.9	2.24	7.61	2.85	47
	13:19	29.925		84.7	2.14	0.49	1.32	5.65	2.60	0.27	
5	0.2	---	---	5.16	1.21	3.06	6.99	2.54	7.77	3.26	48
	13:35	30.567		---	1.92	0.50	0.88	4.55	2.10	1.54	
	1.2	15.2	22.49	5.19	1.26	3.10	6.69	2.46	7.75	3.60	49
	13:35	30.483		89.1	1.81	0.50	0.96	4.85	2.60	1.46	
	4.0	15.2	22.49	---	1.24	3.13	8.03	2.53	---	---	50
	13:35	30.488		---	---	0.50	---	5.20	---	---	
	7.5	15.2	22.51	5.16	1.19	3.38	8.63	2.85	7.72	3.45	51
	13:35	30.503		88.6	1.77	0.50	1.00	5.30	2.60	1.11	
5-1	0.2	15.1	22.41	---	1.21	2.78	6.97	2.30	---	---	52
	13:48	30.346		---	---	0.50	---	5.95	---	---	
	1.2	15.3	22.37	---	1.16	2.72	6.34	2.34	---	---	53
	13:48	30.359		---	---	0.47	---	6.25	---	---	
	4.0	15.5	22.40	---	1.21	2.81	9.49	2.33	---	---	54
	13:48	30.445		---	---	0.50	---	6.10	---	---	
	9.0	15.5	22.41	---	1.38	2.90	6.77	2.10	---	---	55
	13:48	30.457		---	---	0.50	---	26.30	---	---	
6	0.2	15.0	22.24	5.24	1.34	2.83	11.8	2.12	7.75	5.93	56
	14:08	30.099		89.4	2.33	0.47	0.86	14.80	3.30	2.79	
	1.2	15.4	22.14	5.23	1.25	2.47	7.58	1.97	7.72	6.30	57
	14:08	30.078		89.9	2.58	0.46	0.86	19.40	3.20	3.15	
	4.0	15.2	22.19	---	1.30	2.55	8.49	1.96	---	---	58
	14:08	30.097		---	---	0.46	---	48.20	---	---	
	13.0	15.2	22.26	5.15	1.03	3.53	13.0	3.43	7.73	11.95	59
	14:08	30.180		88.3	3.40	0.46	1.06	118.50	3.87	6.22	
7	0.2	15.2	21.67	5.21	1.52	2.40	9.72	1.58	7.73	10.55	60
	14:22	29.419		88.9	3.77	0.53	1.47	35.60	4.54	5.65	
	1.2	15.5	21.61	5.16	1.47	2.50	10.1	1.70	7.64	6.48	61
	14:22	29.415		88.6	3.68	0.52	2.10	33.60	2.40	4.10	
	4.0	15.5	21.78	---	1.36	2.30	10.2	1.69	---	---	62
	14:22	29.644		---	---	0.48	---	35.40	---	---	
	6.0	15.5	21.80	5.16	1.81	2.42	10.5	1.34	7.67	13.92	63
	14:22	29.671		88.7	5.03	0.50	1.25	63.00	5.13	6.98	

GREAT BAY ESTUARINE DATA: CRUISE #22 10/20/77

STA #	DEPTH TIME	TEMP SAL	SIGMA-t	OXYGEN % SAT	PO4 TOT PO4	NO3 NO2	SiO4 NH4	NO3/PO4 SUSP Ld	pH CHL a	CARO PHAE	ROW #
1	0.2	11.0	22.17	6.27	0.36	0.38	13.5	1.05	7.98	15.64	1
	10:55	29.019		97.7	2.60	0.16	1.15	2.11	18.42	2.67	
	1.2	11.0	22.04	6.29	0.35	0.96	13.2	2.76	7.99	12.71	2
	10:55	28.852		97.9	1.21	0.17	1.17	2.19	16.42	1.38	
	4.0	11.0	22.16	---	0.42	0.63	13.7	1.51	---	---	3
	10:55	29.002		---	---	0.16	1.30	3.01	---	---	
	13.0	11.0	22.77	6.37	0.28	0.40	11.6	1.46	8.00	13.09	4
	10:55	29.790		100.	2.12	0.13	1.21	3.53	15.02	3.62	
1-1	0.2	11.0	20.48	---	0.42	1.69	18.9	4.02	---	---	5
	11:16	26.833		---	---	0.24	2.20	2.31	---	---	
	1.2	11.0	20.50	---	0.40	1.89	20.1	4.74	---	---	6
	11:16	26.864		---	---	0.20	1.37	2.44	---	---	
	4.0	11.0	20.58	---	0.37	1.47	20.9	4.04	---	---	7
	11:16	26.971		---	---	0.25	1.36	2.11	---	---	
	14.0	11.0	21.82	---	0.55	2.69	15.0	4.85	---	---	8
	11:16	28.563		---	---	0.16	1.36	1.91	---	---	
1-2	0.2	11.0	18.00	---	0.43	2.78	27.3	6.39	---	---	9
	11:37	23.630		---	---	0.35	3.61	---	---	---	
	1.2	11.0	17.90	---	0.48	2.59	27.4	5.42	---	---	10
	11:37	23.509		---	---	0.30	3.99	---	---	---	
	4.0	11.0	18.32	---	---	---	---	---	---	---	11
	11:37	24.047		---	---	---	3.69	---	---	---	
	14.0	11.0	18.37	---	0.47	2.71	25.9	5.78	---	---	12
	11:37	24.104		---	---	0.29	---	---	---	---	
2	0.2	11.0	16.80	5.98	0.52	3.00	31.3	5.81	7.86	5.44	13
	11:50	22.085		89.2	1.26	0.38	4.30	3.81	4.21	2.24	
	1.2	11.0	16.80	5.98	0.54	3.48	31.0	6.46	7.81	5.40	14
	11:50	22.085		89.2	1.30	0.38	4.68	3.16	3.50	3.22	
	4.0	11.0	16.82	---	0.53	3.56	31.3	6.69	---	---	15
	11:50	22.105		---	---	0.40	4.63	4.71	---	---	
	15.0	11.0	17.46	5.92	0.52	3.38	29.6	6.53	7.85	7.46	16
	11:50	22.936		88.7	1.48	0.33	4.63	4.00	4.81	3.95	
2-1	0.2	10.7	15.33	---	0.59	4.21	37.4	7.13	---	---	17
	12:14	20.126		---	---	0.50	5.16	4.50	---	---	
	1.2	10.7	15.36	---	0.53	4.15	36.5	7.76	---	---	18
	12:14	20.162		---	---	0.41	5.47	4.95	---	---	
	4.0	10.7	15.39	---	0.58	4.08	36.2	7.06	---	---	19
	12:14	20.202		---	---	0.42	5.30	4.83	---	---	
	15.0	10.7	15.56	---	0.53	3.83	36.2	7.17	---	---	20
	12:14	20.416		---	---	0.43	4.38	4.22	---	---	
2-2	0.2	10.5	14.81	---	---	---	38.8	---	---	---	21
	12:31	19.416		---	---	0.47	4.76	---	---	---	
	1.2	10.6	14.77	---	0.61	4.50	38.5	7.40	---	---	22
	12:31	19.380		---	---	0.45	4.79	---	---	---	

GREAT BAY ESTUARINE DATA: CRUISE #22 10/20/77

STA #	DEPTH TIME	TEMP SAL	SIGMA-t	OXYGEN % SAT	PO4 TOT PO4	NO3 NO2	SiO4 NH4	NO3/PO4 SUSP Ld	pH CHL a	CARO PHAE	ROW #
	4.0	10.7	14.85	---	0.56	4.14	38.2	7.38	---	---	23
	12:31	19.496		---	---	0.44	4.72	---	---	---	
	15.0	10.7	14.91	---	0.54	4.00	37.8	7.41	---	---	24
	12:31	19.576		---	---	0.45	4.91	---	---	---	
2-3	0.2	10.6	14.26	---	0.61	4.68	40.3	7.71	---	---	25
	12:45	18.715		---	---	0.49	5.29	3.88	---	---	
	1.2	10.5	14.28	---	0.60	4.66	40.0	7.79	---	---	26
	12:45	18.728		---	---	0.47	5.27	4.56	---	---	
	4.0	10.5	14.38	---	0.59	4.40	40.1	7.50	---	---	27
	12:45	18.855		---	---	0.49	5.13	5.15	---	---	
	15.0	10.5	14.40	---	0.63	4.67	38.4	7.43	---	---	28
	12:45	18.900		---	---	0.47	4.93	4.28	---	---	
2-4	0.2	10.5	13.14	---	0.65	5.08	44.3	7.85	---	---	29
	13:08	17.250		---	---	0.57	6.45	4.62	---	---	
	1.2	10.5	13.08	---	0.62	4.54	44.9	7.27	---	---	30
	13:08	17.176		---	---	0.62	6.44	3.82	---	---	
	4.0	10.5	13.09	---	0.66	5.36	44.2	8.10	---	---	31
	13:08	17.184		---	---	0.52	5.86	4.22	---	---	
	14.0	10.5	13.63	---	0.67	5.38	42.3	8.01	---	---	32
	13:08	17.879		---	---	0.51	5.80	5.48	---	---	
3	0.2	10.0	5.35	6.57	0.48	3.28	75.4	6.90	7.23	2.50	33
	13:23	7.077		87.1	1.48	0.80	5.09	6.73	1.47	1.43	
	1.2	10.0	7.17	6.54	0.48	4.33	69.8	9.00	7.24	3.15	34
	13:23	9.439		88.0	1.63	0.32	4.38	8.47	1.00	2.92	
	4.0	10.0	13.06	---	0.58	4.44	44.7	7.61	---	---	35
	13:23	17.062		---	---	0.48	4.38	8.13	---	---	
	12.0	10.0	---	6.02	0.61	3.93	41.3	6.42	7.69	5.66	36
	13:23	17.200		85.3	1.93	0.49	4.90	7.23	0.90	5.20	
3-1	0.2	10.0	3.21	---	0.48	3.48	83.4	7.30	---	---	37
	13:38	4.302		---	---	0.43	4.24	6.23	---	---	
	1.2	10.0	3.34	---	0.47	3.94	81.1	8.41	---	---	38
	13:38	4.464		---	---	0.29	4.22	6.53	---	---	
	4.0	10.0	13.17	---	0.65	4.11	44.9	6.32	---	---	39
	13:38	17.212		---	---	0.45	5.35	6.42	---	---	
	5.0	10.0	19.88	---	0.40	1.89	21.8	4.72	---	---	40
	13:38	25.859		---	---	0.35	2.90	6.55	---	---	
3-2	0.2	10.0	13.11	---	0.63	5.50	44.5	8.79	---	---	41
	13:57	17.130		---	---	0.58	6.42	3.94	---	---	
	1.2	10.5	13.04	---	0.68	5.34	44.3	7.89	---	---	42
	13:57	17.124		---	---	0.59	6.55	4.02	---	---	
	4.0	10.5	13.10	---	0.69	5.77	44.5	8.31	---	---	43
	13:57	17.195		---	---	0.56	7.10	4.95	---	---	
	10.0	10.5	13.73	---	0.68	5.44	42.8	8.01	---	---	44
	13:57	18.011		---	---	0.60	6.93	5.78	---	---	

GREAT BAY ESTUARINE DATA: CRUISE #22 10/20/77

STA #	DEPTH TIME	TEMP SAL	SIGMA-t	OXYGEN % SAT	PO4 TOT PO4	NO3 NO2	SiO4 NH4	NO3/PO4 SUSP Ld	pH CHL a	CARO PHAE	ROW #
4	0.2	11.0	11.60	6.05	0.62	5.81	48.0	9.36	7.58	1.84	45
	14:12	15.346		86.5	1.44	0.54	6.75	4.42	1.00	1.59	
	1.2	11.0	12.05	---	0.67	5.94	46.1	8.84	---	---	46
	14:12	15.933		---	---	0.52	7.21	3.68	---	---	
	2.5	10.5	12.58	5.98	0.68	5.71	65.8	8.40	7.50	1.91	47
	14:12	16.522		85.1	1.67	0.54	3.41	4.02	1.20	1.04	
5	0.2	10.5	12.58	6.03	0.74	5.78	47.1	7.86	7.56	2.59	48
	14:26	16.523		85.8	1.59	0.64	7.72	3.66	1.80	1.29	
	1.2	10.5	12.59	6.11	0.69	5.57	47.3	8.06	7.51	2.63	49
	14:26	16.541		87.0	1.59	0.70	7.62	5.66	0.40	3.52	
	4.0	10.5	12.62	---	0.73	5.74	47.2	7.90	---	---	50
	14:26	16.578		---	---	0.79	7.42	5.55	---	---	
	11.0	10.5	12.62	6.01	0.74	5.39	47.2	7.30	7.53	2.93	51
	14:26	16.574		85.6	1.62	0.66	7.84	5.75	1.80	1.70	
5-1	0.2	10.5	11.92	---	0.73	5.96	49.6	8.19	---	---	52
	14:40	15.665		---	---	0.68	6.85	4.41	---	---	
	1.2	10.5	11.84	---	0.74	5.60	50.4	7.60	---	---	53
	14:40	15.564		---	---	0.78	6.90	4.82	---	---	
	4.0	10.5	12.35	---	0.64	6.25	47.9	9.69	---	---	54
	14:40	16.228		---	---	0.76	7.83	5.28	---	---	
	13.0	10.5	12.91	---	0.67	5.45	46.3	8.17	---	---	55
	14:40	16.947		---	---	0.66	7.45	4.62	---	---	
6	0.2	10.3	9.08	6.33	0.60	4.76	62.0	8.00	7.32	3.60	56
	14:58	11.958		87.1	2.85	0.69	6.58	8.98	2.54	1.67	
	1.2	10.3	10.05	6.45	0.64	5.25	58.5	8.22	7.38	3.45	57
	14:58	13.219		89.5	1.93	0.65	7.50	5.68	2.14	2.26	
	4.0	10.3	11.53	---	0.68	5.95	52.5	8.77	---	---	58
	14:58	15.128		---	---	0.70	7.46	5.98	---	---	
	11.5	10.2	12.13	6.18	0.73	6.06	49.7	8.35	7.66	3.00	59
	14:58	15.886		87.0	3.12	0.73	7.00	6.63	1.60	2.04	
7	0.2	10.0	6.78	6.46	0.66	4.18	71.4	6.37	7.32	2.95	60
	15:11	8.936		86.6	2.41	0.70	6.15	14.02	1.20	2.82	
	1.2	10.0	6.91	6.34	0.68	4.14	72.9	6.10	7.09	3.45	61
	15:11	9.102		85.1	---	0.81	6.25	14.82	1.47	2.64	
	4.0	10.0	11.53	---	0.69	5.87	52.8	8.55	---	---	62
	15:11	15.089		---	---	0.83	7.60	---	---	---	
	6.0	10.0	11.99	5.93	0.72	5.66	49.5	7.82	7.58	2.55	63
	15:11	15.682		83.0	2.20	0.77	8.52	10.78	0.67	3.07	

GREAT BAY ESTUARINE DATA: CRUISE #23 11/17/77

STA #	DEPTH TIME	TEMP SAL	SIGMA-t	OXYGEN % SAT	PO4 TOT PO4	NO3 NO2	SiO4 NH4	NO3/PO4 SUSP Ld	pH CHL a	CARO PHAE	ROW #
1	0.2 8:47	9.8 30.145	23.24	5.87 89.7	1.00 1.89	3.98 0.39	--- 2.40	3.98 1.53	8.32 0.50	0.75 2.25	1
	1.2 8:47	9.5 30.203	23.34	5.84 88.7	0.91 1.36	4.39 0.38	14.4 2.41	4.82 1.65	8.28 1.60	0.68 0.76	2
	4.0 8:47	10.0 30.269	23.31	--- ---	0.72 ---	4.00 0.45	13.7 2.24	5.55 1.97	--- ---	--- ---	3
	12.0 8:47	10.0 30.993	23.87	5.76 88.9	0.91 2.63	3.72 0.38	12.3 1.99	4.09 1.45	8.30 1.00	1.20 0.12	4
1-1	0.2 9:02	9.8 29.099	22.43	--- ---	0.93 ---	4.08 0.38	17.5 2.49	4.40 1.10	--- ---	--- ---	5
	1.2 9:02	9.5 29.022	22.42	--- ---	0.90 ---	3.70 0.38	17.7 2.82	4.11 ---	--- ---	--- ---	6
	4.0 9:02	9.5 29.241	22.59	--- ---	0.74 ---	3.95 0.37	18.0 3.05	5.34 ---	--- ---	--- ---	7
	15.0 9:02	9.8 30.326	23.38	--- ---	0.90 ---	3.91 0.37	16.0 2.41	4.36 ---	--- ---	--- ---	8
1-2	0.2 9:20	9.5 27.019	20.86	--- ---	0.93 ---	3.68 0.41	24.3 4.02	3.94 1.83	--- ---	--- ---	9
	1.2 9:20	9.3 26.969	20.85	--- ---	0.99 ---	4.14 0.40	23.6 3.83	4.17 ---	--- ---	--- ---	10
	4.0 9:20	9.3 27.238	21.06	--- ---	0.79 ---	4.14 0.39	23.0 3.83	5.27 ---	--- ---	--- ---	11
	15.0 9:20	9.2 27.374	21.18	--- ---	0.97 ---	3.50 0.40	23.2 3.73	3.61 ---	--- ---	--- ---	12
2	0.2 9:37	9.1 25.585	19.80	6.07 88.7	0.97 1.47	4.18 0.42	27.8 4.47	4.29 1.60	8.26 0.50	0.64 0.13	13
	1.2 9:37	9.0 25.602	19.83	5.96 86.9	0.97 1.96	4.08 0.42	27.7 4.42	4.19 1.95	8.24 0.70	1.31 0.28	14
	4.0 9:37	9.0 25.610	19.83	--- ---	0.80 ---	4.26 0.41	27.8 4.38	5.31 1.85	--- ---	--- ---	15
	15.0 9:37	9.1 26.011	20.13	5.92 86.7	0.78 1.54	4.29 0.41	27.2 4.26	5.52 2.60	8.25 0.30	1.84 1.24	16
2-1	0.2 10:01	9.0 23.961	18.55	--- ---	0.98 ---	4.05 0.43	32.8 5.14	4.15 2.40	--- ---	--- ---	17
	1.2 10:01	8.9 23.894	18.51	--- ---	0.83 ---	4.43 0.43	33.2 4.85	5.36 ---	--- ---	--- ---	18
	4.0 10:01	8.9 23.928	18.54	--- ---	0.72 ---	4.65 0.42	32.7 5.05	6.44 ---	--- ---	--- ---	19
	15.0 10:01	8.9 24.209	18.75	--- ---	0.79 ---	4.37 0.42	32.6 4.99	5.50 ---	--- ---	--- ---	20
2-2	0.2 10:14	8.9 23.420	18.14	--- ---	0.83 ---	4.51 0.43	34.4 5.30	5.44 ---	--- ---	--- ---	21
	1.2 10:14	8.9 23.366	18.10	--- ---	0.97 ---	4.83 0.43	34.5 5.19	4.97 ---	--- ---	--- ---	22

GREAT BAY ESTUARINE DATA: CRUISE #23 11/17/77

STA #	DEPTH / TIME	TEMP / SAL	SIGMA-t	OXYGEN / % SAT	PO4 / TOT PO4	NO3 / NO2	SiO4 / NH4	NO3/PO4 / SUSP Ld	pH / CHL a	CARO / PHAE	ROW #
	4.0	8.7	18.08	---	0.97	4.22	35.4	4.35	---	---	23
	10:14	23.310		---	---	0.43	5.05	---	---	---	
	12.0	8.6	18.20	---	0.98	4.12	34.3	4.20	---	---	24
	10:14	23.450		---	---	0.42	5.21	---	---	---	
2-3	0.2	8.8	17.32	---	1.00	4.08	37.6	4.08	---	---	25
	10:28	22.344		---	---	0.45	5.57	2.60	---	---	
	1.2	8.5	17.41	---	0.95	4.68	37.6	4.94	---	---	26
	10:28	22.417		---	---	0.43	5.41	---	---	---	
	4.0	8.4	17.38	---	0.96	4.49	37.4	4.68	---	---	27
	10:28	22.359		---	---	0.45	5.65	---	---	---	
	15.0	8.4	16.97	---	0.99	4.31	36.8	4.35	---	---	28
	10:28	21.836		---	---	0.44	5.43	---	---	---	
2-4	0.2	8.2	15.98	---	0.81	5.01	42.6	6.17	---	---	29
	10:50	20.540		---	---	0.43	5.93	2.20	---	---	
	1.2	8.1	15.86	---	---	---	44.0	---	---	---	30
	10:50	20.371		---	---	0.43	5.88	---	---	---	
	4.0	8.1	16.10	---	0.83	4.98	43.2	5.97	---	---	31
	10:50	20.679		---	---	0.43	6.18	---	---	---	
	8.0	8.1	16.25	---	0.98	4.16	42.2	4.25	---	---	32
	10:50	20.866		---	---	0.45	6.14	---	---	---	
3	0.2	8.3	9.87	6.79	1.01	5.25	71.9	5.20	8.15	---	33
	11:07	12.688		89.6	2.05	0.40	6.98	2.45	---	---	
	1.2	8.7	12.16	6.67	0.91	5.56	61.0	6.11	8.14	1.35	34
	11:07	15.694		90.6	1.79	0.40	6.90	4.80	0.20	1.55	
	4.0	9.0	15.86	---	0.99	4.35	43.5	4.38	---	---	35
	11:07	20.507		---	---	0.44	6.03	3.48	---	---	
	10.0	9.2	16.62	6.12	0.99	4.29	41.5	4.36	8.22	1.88	36
	11:07	21.517		87.3	1.68	0.43	5.68	9.30	0.50	1.25	
3-1	0.2	7.2	7.81	---	0.95	5.56	80.7	5.85	---	---	37
	11:20	9.918		---	---	0.40	7.22	3.45	---	---	
	1.2	7.2	8.13	---	0.95	5.41	79.4	5.69	---	---	38
	11:20	10.332		---	---	0.40	7.07	---	---	---	
	4.0	8.2	16.04	---	0.96	4.83	43.8	5.03	---	---	39
	11:20	20.615		---	---	0.43	5.99	---	---	---	
	7.0	9.2	21.70	---	0.97	4.05	21.1	4.16	---	---	40
	11:20	28.042		---	---	0.40	3.56	---	---	---	
3-2	0.2	8.3	15.59	---	0.80	5.04	45.6	6.27	---	---	41
	11:38	20.049		---	---	0.45	6.03	2.38	---	---	
	1.2	8.0	15.59	---	0.89	5.08	44.2	5.73	---	---	42
	11:38	20.009		---	---	0.41	6.19	---	---	---	
	4.0	8.2	15.76	---	1.00	4.69	43.5	4.72	---	---	43
	11:38	20.249		---	---	0.45	6.05	---	---	---	
	10.5	8.2	16.27	---	0.81	4.89	41.7	6.04	---	---	44
	11:38	20.912		---	---	0.46	5.89	---	---	---	

GREAT BAY ESTUARINE DATA: CRUISE #23 11/17/77

STA #	DEPTH TIME	TEMP SAL	SIGMA-t	OXYGEN % SAT	PO4 TOT PO4	NO3 NO2	SiO4 NH4	NO3/PO4 SUSP Ld	pH CHL a	CARO PHAE	ROW #
4	0.2 11:55	8.3 17.654	13.73	6.35 86.5	0.82 2.53	5.70 0.48	51.4 6.53	6.95 3.00	8.12 1.30	1.24 0.17	45
	1.2 11:55	8.0 19.114	14.90	--- ---	0.80 ---	5.76 0.45	48.2 6.48	7.20 3.13	--- ---	--- ---	46
	3.5 11:55	8.4 20.608	16.01	6.25 87.0	0.82 1.59	5.06 0.43	42.8 5.95	6.15 2.70	8.17 0.40	1.09 0.79	47
5	0.2 12:12	8.0 17.718	13.81	6.43 87.1	0.78 1.95	5.28 0.46	51.2 6.07	6.76 2.95	8.09 0.80	1.09 0.60	48
	1.2 12:12	7.9 17.692	13.80	6.54 88.3	0.76 2.71	5.25 0.46	51.1 6.13	6.89 2.28	8.14 1.30	1.13 0.24	49
	4.0 12:12	7.9 18.052	14.08	--- ---	0.74 ---	5.42 0.46	49.9 6.21	7.37 2.15	--- ---	--- ---	50
	5.0 12:12	7.9 18.207	14.20	6.35 86.0	0.78 2.13	5.18 0.46	49.7 6.08	6.61 2.60	8.13 1.10	1.09 0.16	51
5-1	0.2 12:26	8.2 17.389	13.53	--- ---	0.92 ---	4.64 0.47	51.7 5.93	5.06 2.95	--- ---	--- ---	52
	1.2 12:26	8.1 17.346	13.51	--- ---	0.91 ---	5.19 0.48	52.2 5.98	5.73 ---	--- ---	--- ---	53
	4.0 12:26	7.9 17.779	13.87	--- ---	0.76 ---	5.34 0.47	51.1 6.12	6.98 ---	--- ---	--- ---	54
	12.0 12:26	8.0 19.622	15.29	--- ---	0.76 ---	5.09 0.45	45.5 6.01	6.72 ---	--- ---	--- ---	55
6	0.2 12:43	8.1 16.889	13.15	6.56 88.5	0.76 1.93	5.34 0.46	53.9 6.04	7.03 4.83	8.12 1.40	1.28 0.35	56
	1.2 12:43	7.9 17.125	13.36	6.59 88.7	--- 1.69	--- 0.46	53.4 6.05	--- 2.20	8.14 1.00	1.28 0.61	57
	4.0 12:43	7.9 17.534	13.68	--- ---	0.75 ---	5.30 0.46	51.6 6.16	7.09 ---	--- ---	--- ---	58
	10.5 12:43	7.9 18.399	14.35	6.37 86.4	0.79 1.90	5.13 0.47	49.3 5.85	6.52 3.05	8.16 0.30	1.28 1.24	59
7	0.2 12:58	8.0 17.109	13.33	6.46 87.1	0.80 1.74	5.37 0.47	53.9 6.22	6.71 4.40	8.10 1.20	1.73 0.83	60
	1.2 12:58	7.9 17.274	13.47	6.54 88.1	0.80 1.58	5.48 0.47	53.1 6.13	6.85 4.70	8.13 0.60	1.43 1.36	61
	4.0 12:58	7.9 18.330	14.30	--- ---	0.75 ---	5.33 0.47	49.6 6.26	7.08 4.10	--- ---	--- ---	62
	6.5 12:58	7.9 18.492	14.42	6.33 85.9	0.79 1.37	5.29 0.47	49.2 6.24	6.70 4.30	8.15 1.30	1.09 0.32	63

GREAT BAY ESTUARINE DATA: CRUISE #24 12/19/77

STA #	DEPTH TIME	TEMP SAL	SIGMA-t	OXYGEN % SAT	PO4 TOT PO4	NO3 NO2	SiO4 NH4	NO3/PO4 SUSP Ld	pH CHL a	CARO PHAE	ROW #
1	0.2 11:30	4.0 31.115	24.74	7.07 94.9	0.89 1.24	7.71 0.25	13.8 1.35	8.66 3.35	7.88 0.60	1.46 1.29	1
	1.2 11:30	4.0 30.916	24.58	7.19 96.3	0.87 1.17	8.25 0.22	14.8 1.32	9.46 3.70	7.92 0.50	1.69 1.60	2
	4.0 11:30	4.0 30.946	24.61	--- ---	0.89 ---	7.54 0.22	14.3 1.31	8.45 4.24	--- ---	--- ---	3
	14.0 11:30	4.2 31.188	24.78	7.16 96.6	0.88 1.12	7.63 0.22	15.7 1.18	8.67 6.86	7.85 0.00	2.40 3.69	4
1-1	0.2 11:50	3.2 28.626	22.83	--- ---	0.94 ---	9.04 0.24	22.3 2.27	9.62 2.09	--- ---	--- ---	5
	1.2 11:50	3.4 28.329	22.58	--- ---	0.85 ---	8.10 0.24	21.6 2.25	9.50 1.86	--- ---	--- ---	6
	4.0 11:50	3.4 29.119	23.21	--- ---	--- ---	--- ---	--- 2.15	--- 2.79	--- ---	--- ---	7
	14.0 11:50	3.8 29.896	23.79	--- ---	0.88 ---	8.16 0.24	15.8 1.51	9.27 2.41	--- ---	--- ---	8
1-2	0.2 12:12	2.7 26.297	21.01	--- ---	0.96 ---	9.10 0.25	28.9 3.04	9.50 1.74	--- ---	--- ---	9
	1.2 12:12	2.9 26.731	21.34	--- ---	0.85 ---	8.55 0.23	28.7 ---	10.00 2.56	--- ---	--- ---	10
	4.0 12:12	3.0 26.420	21.09	--- ---	0.62 ---	8.56 0.24	28.7 3.12	13.88 2.36	--- ---	--- ---	11
	14.0 12:12	3.0 26.935	21.50	--- ---	0.95 ---	9.32 ---	--- 2.93	9.77 3.16	--- ---	--- ---	12
2	0.2 12:29	2.3 25.349	20.28	7.44 92.0	--- 1.06	--- ---	--- 3.46	--- 1.86	7.88 0.00	0.75 1.36	13
	1.2 12:29	2.3 25.325	20.26	7.51 92.9	--- 1.19	--- ---	--- 3.41	--- 2.06	7.77 0.40	0.75 0.51	14
	4.0 12:29	2.4 25.363	20.29	--- ---	--- ---	--- ---	--- 3.46	--- 2.41	--- ---	--- ---	15
	15.0 12:29	--- 25.870	---	7.55 ---	0.86 1.07	9.48 0.24	31.0 3.26	11.02 2.51	7.92 0.40	1.13 0.86	16
2-1	0.2 12:54	2.2 23.865	19.10	--- ---	0.88 ---	9.47 0.24	38.0 3.85	10.80 2.29	--- ---	--- ---	17
	1.2 12:54	2.2 23.837	19.08	--- ---	0.84 ---	8.88 0.23	37.5 3.87	10.61 ---	--- ---	--- ---	18
	4.0 12:54	2.2 23.958	19.18	--- ---	0.79 ---	9.65 0.24	37.1 3.93	12.18 2.76	--- ---	--- ---	19
	14.0 12:54	2.1 24.277	19.44	--- ---	--- ---	--- 0.24	36.4 3.75	--- ---	--- ---	--- ---	20
2-2	0.2 13:06	2.0 23.752	19.02	--- ---	0.88 ---	8.79 0.22	38.5 4.02	10.01 ---	--- ---	--- ---	21
	1.2 13:06	2.0 23.685	18.97	--- ---	0.80 ---	8.89 0.23	39.2 ---	11.14 ---	--- ---	--- ---	22

GREAT BAY ESTUARINE DATA: CRUISE #24 12/19/77

STA #	DEPTH TIME	TEMP SAL	SIGMA-t	OXYGEN % SAT	PO4 TOT PO4	NO3 NO2	SiO4 NH4	NO3/PO4 SUSP Ld	pH CHL a	CARO PHAE	ROW #
	4.0	2.0	18.93	---	0.91	8.79	38.6	9.67	---	---	23
	13:06	23.630		---	---	0.25	3.94	---	---	---	
	13.0	2.0	18.90	---	0.90	8.74	38.7	9.73	---	---	24
	13:06	23.603		---	---	0.24	3.97	---	---	---	
2-3	0.2	1.6	18.14	---	0.88	8.91	43.5	10.17	---	---	25
	13:21	22.621		---	---	0.23	4.24	2.30	---	---	
	1.2	1.8	18.12	---	0.88	8.79	41.7	10.03	---	---	26
	13:21	22.613		---	---	0.24	4.23	2.36	---	---	
	4.0	2.0	18.28	---	0.90	9.11	50.1	10.07	---	---	27
	13:21	22.825		---	---	0.23	4.25	2.46	---	---	
	5.0	2.0	18.51	---	0.87	8.96	40.0	10.27	---	---	28
	13:21	23.104		---	---	0.23	4.14	2.68	---	---	
2-4	0.2	1.2	16.76	---	0.83	9.75	47.6	11.81	---	---	29
	13:45	20.880		---	---	0.24	4.57	2.11	---	---	
	1.2	1.3	16.85	---	0.79	9.08	48.0	11.56	---	---	30
	13:45	20.994		---	---	0.25	4.66	2.16	---	---	
	4.0	1.2	16.96	---	0.83	9.83	47.0	11.81	---	---	31
	13:45	21.131		---	---	0.25	4.53	2.45	---	---	
	12.0	1.2	17.33	---	0.84	9.90	45.2	11.74	---	---	32
	13:45	21.591		---	---	0.25	4.59	2.91	---	---	
3	0.2	1.0	10.53	8.53	0.73	9.16	72.6	12.52	7.69	0.75	33
	14:00	13.075		93.8	0.99	0.20	4.68	3.16	0.00	1.29	
	1.2	1.0	12.77	8.26	0.77	8.98	67.3	11.60	7.72	0.68	34
	14:00	15.885		92.6	1.73	0.20	4.81	2.91	0.40	0.37	
	4.0	1.3	17.75	---	0.75	8.89	55.3	11.83	---	---	35
	14:00	22.129		---	---	0.23	4.68	3.36	---	---	
	7.0	1.9	18.20	7.48	0.83	9.06	41.4	10.98	7.80	0.79	36
	14:00	22.715		89.9	1.47	0.24	4.11	3.49	0.20	0.71	
3-1	0.2	0.8	9.41	---	0.69	9.09	78.5	13.11	---	---	37
	14:15	11.668		---	---	0.21	4.80	3.48	---	---	
	1.2	0.8	8.54	---	0.63	9.03	82.9	14.37	---	---	38
	14:15	10.575		---	---	0.20	4.83	3.14	---	---	
	4.0	2.0	18.21	---	0.83	8.84	40.0	10.72	---	---	39
	14:15	22.731		---	---	0.24	3.95	3.06	---	---	
	6.0	2.1	19.17	---	0.91	8.64	37.3	9.53	---	---	40
	14:15	23.948		---	---	0.22	3.92	2.86	---	---	
3-2	0.2	1.0	16.59	---	0.84	9.94	48.6	11.89	---	---	41
	14:33	20.666		---	---	0.25	4.91	3.20	---	---	
	1.2	1.0	16.59	---	0.87	9.37	48.5	10.75	---	---	42
	14:33	20.662		---	---	0.25	5.01	2.66	---	---	
	4.0	1.1	16.69	---	0.80	9.46	47.5	11.83	---	---	43
	14:33	20.792		---	---	0.23	4.86	3.01	---	---	
	11.5	1.2	17.36	---	0.87	9.25	46.1	10.59	---	---	44
	14:33	21.631		---	---	0.24	4.59	2.66	---	---	

GREAT BAY ESTUARINE DATA: CRUISE #24 12/19/77

STA #	DEPTH / TIME	TEMP / SAL	SIGMA-t	OXYGEN / % SAT	PO4 / TOT PO4	NO3 / NO2	SiO4 / NH4	NO3/PO4 / SUSP Ld	pH / CHL a	CARO / PHAE	ROW #
4	0.2	0.8	15.00	8.02	0.81	10.49	54.2	12.90	7.76	0.71	45
	14:48	18.668		91.1	1.95	0.23	---	1.91	0.30	0.75	
	1.2	1.0	15.44	---	0.84	9.99	52.7	11.85	---	---	46
	14:48	19.219		---	---	0.24	5.31	1.99	---	---	
	3.0	1.0	16.67	7.88	0.96	9.48	47.3	9.87	7.77	0.60	47
	14:48	20.765		91.3	1.08	0.23	---	1.86	0.20	0.71	
5	0.2	0.4	15.41	8.17	0.83	9.70	53.1	11.63	7.78	1.13	48
	15:05	19.179		92.1	1.08	0.25	5.14	2.86	0.50	0.69	
	1.2	0.5	15.37	8.13	0.83	9.60	54.0	11.63	7.74	1.09	49
	15:05	19.126		91.9	1.16	0.25	5.11	3.66	0.30	1.10	
	4.0	0.5	15.39	---	0.82	9.80	53.6	11.90	---	---	50
	15:05	19.157		---	---	0.25	---	3.42	---	---	
	11.0	0.7	15.51	8.17	0.98	8.42	53.1	8.57	7.76	---	51
	15:05	19.310		93.0	1.14	0.25	5.15	4.75	---	---	
5-1	0.2	0.3	15.25	---	0.79	10.18	54.7	12.95	---	---	52
	15:19	18.981		---	---	0.25	5.16	4.16	---	---	
	1.2	0.5	15.22	---	0.60	9.99	54.5	16.67	---	---	53
	15:19	18.941		---	---	0.25	5.10	5.08	---	---	
	4.0	0.5	15.70	---	0.80	9.78	53.1	12.24	---	---	54
	15:19	19.543		---	---	0.25	5.18	5.25	---	---	
	8.0	0.8	15.77	---	0.81	9.58	53.1	11.76	---	---	55
	15:19	19.636		---	---	0.26	5.03	46.32	---	---	
6	0.2	0.0	14.11	8.37	0.57	10.12	59.9	17.76	7.69	1.39	56
	15:35	17.547		92.3	1.18	0.26	---	6.57	0.50	1.04	
	1.2	0.1	14.63	8.27	0.60	10.10	57.4	16.78	7.76	1.54	57
	15:35	18.201		91.9	1.92	0.26	5.25	5.62	0.00	2.37	
	4.0	0.1	14.70	---	0.75	9.72	56.5	12.98	---	---	58
	15:35	18.289		---	---	0.25	---	6.28	---	---	
	11.0	0.2	15.13	7.96	0.77	9.90	54.7	12.79	7.75	2.83	59
	15:35	18.823		89.1	1.70	0.25	5.16	7.82	0.00	3.28	
7	0.2	0.0	12.78	8.27	0.76	10.28	65.2	13.61	7.68	1.90	60
	15:52	15.896		90.2	1.26	0.25	5.34	8.22	0.00	5.20	
	1.2	0.0	12.88	8.48	0.82	10.27	65.2	12.59	7.70	1.80	61
	15:52	16.012		92.6	1.26	0.26	5.29	9.48	0.00	4.25	
	4.0	0.2	14.65	---	---	---	56.9	---	---	---	62
	15:52	18.223		---	---	0.25	5.29	6.55	---	---	
	7.0	---	---	8.06	0.88	9.70	55.3	11.07	7.71	2.70	63
	15:52	18.698		---	1.64	0.26	5.23	14.28	0.00	3.40	

GREAT BAY ESTUARINE DATA: CRUISE #25 1/19/78

STA #	DEPTH TIME	TEMP SAL	SIGMA-t	OXYGEN % SAT	PO4 TOT PO4	NO3 NO2	SiO4 NH4	NO3/PO4 SUSP Ld	pH CHL a	CARO PHAE	ROW #
1	0.2 12:37	2.0 30.350	24.29	7.96 101.	0.72 1.57	11.32 0.16	19.9 0.12	15.65 ---	7.85 ---	--- ---	1
	1.2 12:37	2.0 30.388	24.32	7.74 98.3	0.73 1.43	11.97 0.16	21.7 0.00	16.33 6.05	7.83 1.60	1.43 0.50	2
	4.0 12:37	2.0 30.506	24.41	--- ---	0.73 ---	11.42 0.15	20.8 ---	15.62 ---	--- ---	--- ---	3
	12.0 12:37	2.2 31.452	25.15	7.41 95.2	--- 1.73	--- 0.17	15.6 0.00	--- 9.42	--- 1.70	1.88 0.96	4
1-1	0.2 12:55	1.4 28.588	22.91	--- ---	0.72 ---	12.14 0.15	26.3 ---	16.87 ---	--- ---	--- ---	5
	1.2 12:55	1.4 28.543	22.88	--- ---	0.76 ---	12.41 0.16	26.0 ---	16.32 5.25	--- ---	--- ---	6
	4.0 12:55	1.5 28.708	23.00	--- ---	0.72 ---	11.76 0.16	24.8 ---	16.39 ---	--- ---	--- ---	7
	11.0 12:55	1.8 29.678	23.76	--- ---	0.71 ---	11.73 0.15	21.3 ---	16.45 5.45	--- ---	--- ---	8
2	0.2 13:20	1.0 24.471	19.64	8.06 95.8	0.70 1.38	12.95 0.16	37.8 0.50	18.50 ---	7.83 ---	0.86 ---	9
	1.2 13:20	1.0 24.418	19.59	8.16 96.9	0.64 0.96	11.74 0.16	37.6 0.62	18.37 3.75	7.77 1.00	2.18 0.75	10
	4.0 13:20	1.0 24.488	19.65	--- ---	0.63 ---	11.37 0.16	38.3 ---	18.01 ---	--- ---	--- ---	11
	10.0 13:20	1.0 24.993	20.05	7.91 94.3	0.70 1.38	12.09 0.16	36.0 0.43	17.22 5.10	7.80 1.30	1.16 0.10	12
2-2	0.2 13:42	0.1 21.928	17.62	--- ---	0.62 ---	11.46 0.17	46.4 ---	18.57 ---	--- ---	--- ---	13
	1.2 13:42	0.0 21.903	17.60	--- ---	0.66 ---	12.40 0.17	47.6 ---	18.92 3.35	--- ---	--- ---	14
	4.0 13:42	0.0 22.024	17.70	--- ---	0.66 ---	12.68 0.17	46.8 ---	19.22 ---	--- ---	--- ---	15
	12.0 13:42	0.0 22.061	17.73	--- ---	0.63 ---	11.64 0.16	45.9 ---	18.51 4.60	--- ---	--- ---	16
2-4	0.2 14:17	0.0 19.278	15.49	--- ---	0.63 ---	12.50 0.18	54.9 ---	19.84 ---	--- ---	--- ---	17
	1.2 14:17	0.0 19.301	15.51	--- ---	0.65 ---	13.45 0.17	54.7 ---	20.74 1.85	--- ---	--- ---	18
	4.0 14:17	0.0 19.500	15.67	--- ---	0.63 ---	11.07 0.17	53.9 ---	17.59 ---	--- ---	--- ---	19
	13.0 14:17	0.0 19.524	15.69	--- ---	0.61 ---	12.30 0.17	53.7 ---	20.10 3.59	--- ---	--- ---	20
3	0.2 14:32	-0.2 11.274	9.08	8.87 93.2	0.68 1.35	13.57 0.21	76.8 4.12	19.94 ---	7.54 ---	1.31 ---	21
	1.2 14:32	-0.3 14.096	11.34	9.75 93.5	0.65 1.36	14.22 0.21	72.5 2.92	22.01 4.20	7.58 0.25	1.03 1.33	22

GREAT BAY ESTUARINE DATA: CRUISE #25 1/19/78

STA #	DEPTH TIME	TEMP SAL	SIGMA-t	OXYGEN % SAT	PO4 TOT PO4	NO3 NO2	SiO4 NH4	NO3/PO4 SUSP Ld	pH CHL a	CARO PHAE	ROW #
	4.0	-0.2	13.92	---	0.65	12.19	60.6	18.85	---	---	23
	14:32	17.319		---	---	0.19	---	---	---	---	
	9.5	-0.1	16.60	8.27	0.72	12.07	45.2	16.85	7.81	1.97	24
	14:32	20.655		92.9	1.57	0.17	1.17	7.40	---	---	
3-1	0.2	-0.2	5.36	---	0.58	12.18	98.0	20.94	---	---	25
	14:45	6.628		---	---	0.23	---	---	---	---	
	1.2	-0.2	8.43	---	0.60	11.94	85.7	19.97	---	---	26
	14:45	10.461		---	---	0.22	---	2.73	---	---	
	4.0	0.0	14.98	---	0.67	11.86	53.7	17.79	---	---	27
	14:45	18.636		---	---	0.18	---	---	---	---	
	6.0	0.8	20.93	---	0.70	11.67	33.4	16.77	---	---	28
	14:45	26.082		---	---	0.16	---	8.37	---	---	
3-2	0.2	-0.5	14.29	---	0.60	12.94	59.7	21.54	---	---	29
	15:03	17.779		---	---	0.18	---	---	---	---	
	1.2	-0.3	14.44	---	0.56	13.02	58.3	23.38	---	---	30
	15:03	17.960		---	---	0.19	---	2.62	---	---	
	4.0	-0.2	14.51	---	0.62	13.12	59.0	21.14	---	---	31
	15:03	18.052		---	---	0.17	---	---	---	---	
	18.0	0.0	15.79	---	0.62	11.63	52.5	18.91	---	---	32
	15:03	19.650		---	---	0.17	---	3.44	---	---	
4	0.2	-0.8	11.62	8.29	0.60	12.98	72.9	21.54	7.52	1.61	33
	15:15	14.463		87.6	1.07	0.18	2.62	---	---	---	
	1.2	-0.7	12.60	---	0.65	14.74	69.8	22.73	---	1.35	34
	15:15	15.685		---	---	0.19	---	3.33	0.30	0.96	
	4.0	-0.4	15.22	8.28	0.66	13.28	56.3	20.24	7.75	---	35
	15:15	18.933		91.2	1.23	0.17	1.52	2.61	---	---	
5	0.2	-0.5	12.93	8.54	0.78	13.38	66.9	17.07	7.57	0.83	36
	15:33	16.084		92.0	1.41	0.19	3.59	---	0.20	1.20	
	1.2	-0.5	12.95	8.48	0.67	13.75	66.1	20.51	7.67	0.86	37
	15:33	16.110		91.4	1.31	0.20	3.53	3.30	---	---	
	4.0	-0.5	13.29	---	0.61	13.27	64.7	21.69	---	---	38
	15:33	16.534		---	---	0.18	---	---	---	---	
	12.0	-0.8	13.35	8.45	0.56	11.36	65.7	20.29	7.70	0.64	39
	15:33	16.609		88.4	1.01	0.18	1.95	3.15	0.00	1.40	
6	0.2	-1.0	10.46	8.63	0.53	13.71	78.0	25.77	7.50	1.50	40
	15:57	13.030		89.8	1.07	0.18	2.40	---	0.00	1.75	
	1.2	-0.9	10.43	8.61	0.54	13.99	78.5	25.97	7.44	0.68	41
	15:57	12.991		89.8	1.10	0.20	2.67	2.45	0.50	0.90	
	4.0	-0.8	11.10	---	0.53	13.10	73.4	24.64	---	---	42
	15:57	13.815		---	---	0.19	---	---	---	---	
	13.0	---	---	8.62	0.57	12.14	65.6	21.44	7.68	1.61	43
	15:57	16.089		---	0.40	0.18	2.01	4.15	0.00	1.96	
7	0.2	-1.0	9.33	8.55	0.57	13.38	84.8	23.39	7.38	0.93	44
	16:20	11.617		88.1	1.12	0.19	3.15	---	0.70	1.05	

GREAT BAY ESTUARINE DATA: CRUISE #25 1/19/78

STA #	DEPTH / TIME	TEMP / SAL	SIGMA-t	OXYGEN / % SAT	PO4 / TOT PO4	NO3 / NO2	SiO4 / NH4	NO3/PO4 / SUSP Ld	pH / CHL a	CARO / PHAE	ROW #
	1.2	---	---	8.48	0.51	13.65	83.9	26.76	7.48	2.63	45
	16:20	11.856		---	1.16	0.20	3.06	5.00	---	---	
	4.0	---	---	---	---	---	15.4	---	---	---	46
	16:20	13.191		---	---	0.21	---	---	---	---	
	6.5	---	---	8.28	0.52	11.95	67.6	22.88	7.67	1.58	47
	16:20	15.999		---	1.56	0.19	2.13	5.45	1.20	0.20	

GREAT BAY ESTUARINE DATA: CRUISE #26 2/15/78

STA #	DEPTH TIME	TEMP SAL	SIGMA-t	OXYGEN % SAT	PO4 TOT PO4	NO3 NO2	SiO4 NH4	NO3/PO4 SUSP Ld	pH CHL a	CARO PHAE	ROW #
1	0.2 10:20	0.3 30.262	24.31	7.89 95.7	0.54 1.33	8.93 0.48	16.0 0.43	16.46 3.11	7.86 0.00	1.16 1.61	1
	1.2 10:20	0.3 30.424	24.44	7.94 96.4	0.53 1.90	8.56 0.45	18.6 0.25	16.01 3.61	7.87 ---	1.05 ---	2
	4.0 10:20	0.3 30.559	24.55	--- ---	--- ---	--- ---	--- ---	--- 4.81	--- ---	--- ---	3
	12.0 10:20	0.2 30.783	24.73	7.82 94.9	0.53 1.73	8.51 0.41	14.4 0.17	15.97 5.21	7.89 1.30	1.61 0.31	4
1-1	0.2 10:43	0.2 29.306	23.54	--- ---	0.56 ---	9.12 0.41	20.5 ---	16.35 1.91	--- ---	--- ---	5
	1.2 10:43	0.2 29.062	23.35	--- ---	0.55 ---	8.58 0.44	21.0 ---	15.68 2.11	--- ---	--- ---	6
	4.0 10:43	0.3 29.309	23.54	--- ---	0.61 ---	8.90 0.44	22.6 ---	14.64 2.21	--- ---	--- ---	7
	14.0 10:43	0.3 30.270	24.31	--- ---	0.53 ---	8.46 0.48	16.1 ---	16.03 3.01	--- ---	--- ---	8
2	0.2 11:10	0.1 26.631	21.40	7.99 94.0	0.58 3.11	9.14 0.47	29.7 1.19	15.73 3.27	7.71 ---	--- ---	9
	1.2 11:10	0.1 26.562	21.34	7.94 93.4	0.63 1.25	9.35 0.45	31.7 1.00	14.88 1.96	7.85 0.10	0.75 1.02	10
	4.0 11:10	0.1 26.546	21.33	--- ---	0.58 ---	9.39 0.41	30.6 ---	16.15 2.26	--- ---	--- ---	11
	14.0 11:10	0.0 26.565	21.34	8.00 93.9	0.59 1.56	9.22 0.49	32.4 1.05	15.70 2.56	7.83 ---	1.24 ---	12
2-2	0.2 11:38	0.1 25.274	20.30	--- ---	0.58 ---	9.38 0.46	34.5 ---	16.11 1.77	--- ---	--- ---	13
	1.2 11:38	0.0 25.344	20.36	--- ---	0.58 ---	9.54 0.49	34.9 ---	16.33 2.06	--- ---	--- ---	14
	4.0 11:38	0.0 25.297	20.33	--- ---	0.58 ---	9.04 0.53	53.5 ---	15.48 2.01	--- ---	--- ---	15
	12.5 11:38	0.0 25.372	20.39	--- ---	0.57 ---	9.08 0.48	33.1 ---	15.89 1.71	--- ---	--- ---	16
2-4	0.2 12:07	0.0 23.407	18.81	--- ---	0.62 ---	9.69 0.50	41.0 ---	15.73 1.01	--- ---	--- ---	17
	1.2 12:07	0.0 23.473	18.86	--- ---	0.57 ---	9.61 0.47	39.5 ---	16.82 1.51	--- ---	--- ---	18
	4.0 12:07	-0.2 23.601	18.97	--- ---	0.57 ---	9.88 0.48	41.4 ---	17.19 0.90	--- ---	--- ---	19
	10.0 12:07	-0.2 23.627	18.99	--- ---	0.58 ---	9.80 0.47	40.1 ---	17.00 1.41	--- ---	--- ---	20
3	0.2 12:24	0.0 15.721	12.64	8.45 92.1	0.78 1.56	10.20 0.52	67.0 4.72	13.10 1.51	7.69 ---	0.79 ---	21
	1.2 12:24	0.0 19.728	15.85	8.13 91.0	0.73 1.65	9.53 0.49	55.0 3.09	13.06 1.94	7.76 ---	1.16 ---	22

GREAT BAY ESTUARINE DATA: CRUISE #26 2/15/78

STA #	DEPTH TIME	TEMP SAL	SIGMA-t	OXYGEN % SAT	PO4 TOT PO4	NO3 NO2	SiO4 NH4	NO3/PO4 SUSP Ld	pH CHL a	CARO PHAE	ROW #
	4.0	0.0	18.82	---	0.59	9.29	39.8	15.75	---	---	23
	12:24	23.421		---	---	0.43	---	1.26	---	---	
	8.0	0.0	19.26	7.94	0.57	9.19	33.1	16.11	7.83	0.60	24
	12:24	23.974		91.5	1.61	0.41	1.16	2.81	---	---	
3-1	0.2	0.0	10.89	---	0.83	10.01	81.1	12.04	---	---	25
	12:36	13.527		---	---	0.50	---	1.81	---	---	
	1.2	0.0	15.90	---	0.74	10.47	---	14.17	---	---	26
	12:36	19.781		---	---	---	---	1.69	---	---	
	4.0	0.0	19.26	---	0.60	9.35	38.6	15.58	---	---	27
	12:36	23.965		---	---	0.45	---	1.91	---	---	
3-2	0.2	0.0	18.10	---	0.55	9.90	42.2	17.86	---	---	28
	12:55	22.525		---	---	0.50	---	1.08	---	---	
	1.2	-0.3	18.26	---	0.54	9.41	43.1	17.47	---	---	29
	12:55	22.719		---	---	0.42	---	0.66	---	---	
	4.0	-0.3	18.51	---	0.56	9.65	42.5	17.33	---	---	30
	12:55	23.029		---	---	0.45	---	1.21	---	---	
	14.0	-0.4	18.97	---	0.55	9.09	39.9	16.53	---	---	31
	12:55	23.607		---	---	0.51	---	1.36	---	---	
4	0.2	-0.3	15.18	8.04	0.78	11.27	55.1	14.40	7.62	0.86	32
	13:11	18.887		88.8	1.31	0.49	4.00	1.73	---	---	
	1.2	-0.3	17.60	---	0.62	9.68	50.5	15.72	---	0.86	33
	13:11	21.903		---	---	0.55	---	1.96	---	---	
	3.0	-0.4	18.39	7.81	0.60	10.09	43.0	16.91	7.69	---	34
	13:11	22.881		88.4	1.64	0.49	2.05	1.83	---	---	
5	0.2	-0.4	16.93	7.84	0.86	10.30	51.9	11.97	7.62	0.86	35
	13:30	21.068		87.6	1.62	0.53	4.05	0.76	0.50	0.41	
	1.2	-0.6	17.19	7.82	0.66	10.14	48.5	15.39	7.68	0.86	36
	13:30	21.386		87.1	1.41	0.49	2.96	1.31	0.20	0.92	
	4.0	-0.4	17.40	---	0.60	10.30	47.0	17.09	---	---	37
	13:30	21.656		---	---	0.51	---	1.31	---	---	
	7.0	-0.8	17.42	8.05	0.66	9.93	49.3	14.99	7.66	1.24	38
	13:30	21.675		89.4	1.47	0.60	2.12	6.71	---	---	
6	0.2	-0.5	15.04	8.06	0.53	10.58	55.6	20.09	7.62	0.98	39
	13:58	18.716		88.4	1.19	0.52	2.90	1.21	0.20	0.92	
	1.2	-0.8	15.11	8.00	0.52	10.19	58.5	19.65	7.59	0.86	40
	13:58	18.800		87.1	0.98	0.53	2.94	1.12	0.30	0.75	
	4.0	-0.8	16.60	---	0.55	9.85	51.6	17.98	---	---	41
	13:58	20.650		---	---	0.52	---	1.06	---	---	
	8.5	-0.8	17.14	7.92	0.56	9.87	48.1	17.68	7.64	0.98	42
	13:58	21.321		87.7	2.24	0.47	3.79	2.11	0.00	1.26	
7	0.2	-0.7	14.48	7.96	0.54	11.38	---	21.25	7.63	1.05	43
	14:20	18.018		86.4	1.19	---	3.72	2.32	0.60	0.45	
	1.2	-0.9	15.45	7.84	0.53	10.66	60.6	20.22	7.64	0.94	44
	14:20	19.224		85.4	1.61	0.52	3.01	0.91	0.00	1.26	

GREAT BAY ESTUARINE DATA: CRUISE #26 2/15/78

STA #	DEPTH TIME	TEMP SAL	SIGMA-t	OXYGEN % SAT	PO4 TOT PO4	NO3 NO2	SiO4 NH4	NO3/PO4 SUSP Ld	pH CHL a	CARO PHAE	ROW #
	4.0	-0.9	16.12	---	0.56	10.56	52.4	18.86	---	---	45
	14:20	20.059		---	---	0.49	---	---	---	---	
	7.0	-0.9	17.10	7.95	0.54	9.87	47.9	18.12	7.64	0.94	46
	14:20	21.273		87.8	1.17	0.57	2.15	1.52	0.30	0.75	

GREAT BAY ESTUARINE DATA: CRUISE #27 3/16/78

STA #	DEPTH TIME	TEMP SAL	SIGMA-t	OXYGEN % SAT	PO4 TOT PO4	NO3 NO2	SiO4 NH4	NO3/PO4 SUSP Ld	pH CHL a	CARO PHAE	ROW #
1	0.2 9:27	1.9 30.871	24.71	7.59 96.4	0.63 2.51	7.67 0.43	13.6 0.35	12.25 3.34	8.05 0.00	1.43 2.45	1
	1.2 9:27	1.7 29.955	23.99	7.84 98.5	0.60 1.35	7.63 0.46	13.5 0.22	12.75 3.44	8.05 0.10	1.27 1.80	2
	4.0 9:27	1.7 31.024	24.85	--- ---	0.57 ---	7.71 0.42	13.3 ---	13.46 4.29	--- ---	--- ---	3
	13.5 9:27	1.5 31.281	25.06	7.66 96.6	0.63 1.74	7.85 0.42	15.5 0.13	12.45 7.19	8.05 1.30	2.93 2.76	4
1-1	0.2 9:50	1.7 29.868	23.92	--- ---	0.58 ---	7.69 0.41	16.4 ---	13.31 2.62	--- ---	--- ---	5
	1.2 9:50	1.5 29.757	23.84	--- ---	0.60 ---	7.84 0.43	17.2 ---	13.04 2.62	--- ---	--- ---	6
	4.0 9:50	1.5 29.801	23.88	--- ---	0.59 ---	7.68 0.43	17.0 ---	13.04 4.08	--- ---	--- ---	7
	14.0 9:50	1.5 30.823	24.70	--- ---	0.59 ---	7.61 0.43	15.0 ---	12.98 3.14	--- ---	--- ---	8
2	0.2 10:15	1.8 27.878	22.32	7.95 98.7	0.60 2.48	7.83 0.45	22.6 0.82	12.97 1.64	8.04 ---	1.05 ---	9
	1.2 10:15	1.7 27.865	22.32	8.08 100.	0.64 2.88	7.83 0.44	35.1 0.91	12.29 1.54	8.03 0.50	1.43 2.97	10
	4.0 10:15	1.5 27.851	22.32	--- ---	0.62 ---	7.86 0.46	23.0 ---	12.73 ---	--- ---	--- ---	11
	12.0 10:15	1.5 27.863	22.33	8.06 99.3	4.80 7.15	8.66 0.46	23.2 0.97	1.81 32.80	8.05 0.50	2.93 3.35	12
2-1	0.2 10:46	1.8 26.853	21.51	--- ---	0.64 ---	8.05 0.43	25.8 ---	12.55 ---	--- ---	--- ---	13
	1.2 10:46	1.8 26.862	21.51	--- ---	0.61 ---	7.99 0.45	26.0 ---	13.07 1.59	--- ---	--- ---	14
	4.0 10:46	1.8 26.887	21.53	--- ---	0.65 ---	8.05 0.45	26.1 ---	12.37 ---	--- ---	--- ---	15
	15.0 10:46	1.4 26.883	21.55	--- ---	0.65 ---	8.59 0.50	25.7 ---	13.19 1.84	--- ---	--- ---	16
2-4	0.2 11:16	1.8 25.267	20.24	--- ---	0.64 ---	8.06 0.49	31.2 ---	12.68 ---	--- ---	--- ---	17
	1.2 11:16	1.7 24.640	19.74	--- ---	0.68 ---	8.47 0.50	34.1 ---	12.42 1.72	--- ---	--- ---	18
	4.0 11:16	1.7 25.102	20.11	--- ---	0.63 ---	8.30 0.47	31.9 ---	13.27 ---	--- ---	--- ---	19
	15.0 11:16	1.2 25.709	20.62	--- ---	--- ---	--- 0.40	29.4 ---	--- 2.01	--- ---	--- ---	20
3	0.2 11:30	1.0 14.359	11.56	8.69 96.4	1.24 2.31	12.32 0.67	80.2 10.25	9.98 4.14	7.94 0.67	1.90 1.01	21
	1.2 11:30	1.5 21.845	17.52	8.45 100.	0.87 2.61	9.37 0.50	45.6 4.14	10.75 2.54	8.04 0.67	1.75 1.20	22

GREAT BAY ESTUARINE DATA: CRUISE #27 3/16/78

STA #	DEPTH TIME	TEMP SAL	SIGMA-t	OXYGEN % SAT	PO4 TOT PO4	NO3 NO2	SiO4 NH4	NO3/PO4 SUSP Ld	pH CHL a	CARO PHAE	ROW #
	4.0	1.5	20.67	---	0.41	8.08	29.5	19.86	---	---	23
	11:30	25.785		---	---	0.40	---	---	---	---	
	10.6	1.5	21.17	8.19	0.65	7.84	27.7	12.11	7.86	1.80	24
	11:30	26.414		100.	1.39	0.48	1.14	---	---	---	
3-1	0.2	1.9	7.84	---	1.31	14.11	100.	10.77	---	---	25
	11:44	9.686		---	---	0.63	---	---	---	---	
	1.2	1.1	14.92	---	1.07	10.75	58.0	10.04	---	---	26
	11:44	18.569		---	---	0.55	---	---	---	---	
	4.0	1.5	21.06	---	0.66	7.82	28.0	11.86	---	---	27
	11:44	26.277		---	---	0.48	---	---	---	---	
	7.5	1.7	22.97	---	0.63	7.66	20.1	12.23	---	---	28
	11:44	28.681		---	---	0.50	---	3.98	---	---	
4	0.2	1.2	12.31	8.85	1.00	17.47	55.2	17.45	7.86	1.61	29
	12:17	15.303		99.3	4.88	0.67	6.09	8.43	0.70	1.26	
	3.0	1.8	20.53	8.58	0.59	7.84	27.6	13.18	8.05	1.65	30
	12:17	25.628		105.	2.10	0.45	1.21	2.00	---	---	
5	0.2	2.0	11.85	8.77	1.14	17.07	63.9	14.98	7.77	1.80	31
	12:37	14.741		100.	2.78	0.71	9.95	---	1.07	0.61	
	1.2	1.5	19.33	8.44	0.64	8.16	34.5	12.73	8.02	1.90	32
	12:37	24.111		101.	4.09	0.47	2.05	2.99	1.07	0.80	
	9.0	1.2	19.95	8.20	0.56	7.68	31.4	13.61	8.06	1.55	33
	12:37	24.870		98.2	1.83	0.50	1.60	2.59	---	---	
6	0.2	0.9	17.62	8.58	0.54	9.33	42.2	17.25	8.02	2.25	34
	13:05	21.948		100.	1.83	0.53	2.61	4.94	1.07	1.74	
	1.2	1.0	18.22	8.48	0.56	8.27	39.5	14.89	8.03	2.55	35
	13:05	22.703		100.	1.68	0.46	2.05	4.29	0.80	2.00	
	12.0	1.1	19.80	8.41	0.53	7.49	33.7	14.25	8.07	1.40	36
	13:05	24.682		100.	1.81	0.46	1.35	2.90	0.40	1.75	
7	0.2	0.9	16.12	8.68	0.82	10.35	49.8	12.70	8.00	2.30	37
	13:30	20.076		100.	1.78	0.52	3.91	6.12	1.47	2.27	
	1.2	1.2	18.16	8.66	0.48	8.37	38.8	17.42	8.08	3.05	38
	13:30	22.634		102.	1.49	0.50	2.44	---	1.34	2.22	
	4.0	1.1	19.80	8.46	0.54	7.49	31.9	13.95	8.09	2.15	39
	13:30	24.682		101.	1.46	0.47	1.30	2.26	0.13	3.14	

GREAT BAY ESTUARINE DATA: CRUISE #28 4/17/78

STA #	DEPTH TIME	TEMP SAL	SIGMA-t	OXYGEN % SAT	PO4 TOT PO4	NO3 NO2	SiO4 NH4	NO3/PO4 SUSP Ld	pH CHL a	CARO PHAE	ROW #
1	0.2 10:56	5.0 29.199	23.13	7.54 102.	0.12 1.00	0.63 0.19	7.42 1.30	5.17 0.84	8.09 1.03	1.08 0.27	1
	1.2 10:56	4.7 29.345	23.27	7.44 100.	0.11 0.67	0.67 0.21	6.62 1.28	6.37 0.74	8.13 1.01	0.99 0.12	2
	4.0 10:56	4.5 30.037	23.84	--- ---	0.08 ---	0.49 0.16	4.12 1.03	5.71 0.86	--- ---	--- ---	3
	14.0 10:56	4.3 29.350	23.31	7.58 101.	0.08 0.75	0.31 0.14	2.23 0.67	4.09 0.71	2.13 1.00	1.24 0.61	4
1-1	0.2 11:12	4.9 27.902	22.11	--- ---	0.17 ---	1.09 0.22	10.2 1.65	6.52 1.01	--- ---	--- ---	5
	1.2 11:12	4.9 27.270	21.61	--- ---	0.15 ---	1.02 0.25	9.96 1.58	6.57 1.18	--- ---	--- ---	6
	4.0 11:12	4.9 27.822	22.05	--- ---	0.21 ---	1.12 0.22	9.81 1.56	5.44 1.11	--- ---	--- ---	7
	15.0 11:12	4.6 26.882	21.33	--- ---	0.15 ---	0.64 0.19	5.82 0.97	4.23 0.91	--- ---	--- ---	8
2	0.2 11:35	5.3 23.158	18.33	7.38 97.0	0.25 1.04	2.08 0.28	20.8 2.62	8.26 1.36	8.10 0.30	1.24 1.31	9
	1.2 11:35	5.2 23.114	18.31	7.56 99.1	0.24 0.97	2.02 0.30	21.2 2.59	8.27 1.66	8.07 0.20	1.16 1.27	10
	4.0 11:35	5.2 23.169	18.35	--- ---	0.27 ---	2.09 0.34	21.5 2.55	7.62 1.39	--- ---	--- ---	11
	13.0 11:35	5.0 23.801	18.87	7.41 97.1	0.26 0.76	1.75 0.28	17.1 2.14	6.80 2.01	8.11 0.50	1.24 1.46	12
2-2	0.2 12:00	5.9 19.562	15.45	--- ---	0.28 ---	2.72 0.36	29.3 3.21	9.80 2.06	--- ---	--- ---	13
	1.2 12:00	5.8 19.522	15.43	--- ---	0.30 ---	2.78 0.40	29.5 3.24	9.22 1.66	--- ---	--- ---	14
	4.0 12:00	5.8 19.587	15.48	--- ---	0.31 ---	2.76 0.35	29.1 3.44	8.97 2.61	--- ---	--- ---	15
	15.0 12:00	5.8 20.598	16.28	--- ---	0.30 ---	2.61 0.32	26.8 3.03	8.64 2.36	--- ---	--- ---	16
2-4	0.2 12:35	6.1 16.226	12.82	--- ---	0.30 ---	3.68 0.34	36.7 3.72	12.26 2.50	--- ---	--- ---	17
	1.2 12:35	6.1 16.368	12.93	--- ---	0.33 ---	3.57 0.40	36.1 3.59	10.91 2.46	--- ---	--- ---	18
	4.0 12:35	6.0 16.470	13.02	--- ---	0.29 ---	3.45 0.48	36.3 3.70	11.72 2.96	--- ---	--- ---	19
	15.0 12:35	6.0 16.799	13.28	--- ---	0.31 ---	2.31 0.48	35.8 3.55	7.51 2.81	--- ---	--- ---	20
3	0.2 12:50	6.0 7.826	6.26	7.94 96.0	0.33 1.64	3.65 0.35	58.7 3.33	11.06 2.91	7.76 ---	--- ---	21
	1.2 12:50	6.0 11.534	9.15	7.51 93.1	0.37 0.85	3.43 0.33	49.8 3.65	9.37 3.15	7.96 1.14	1.76 1.10	22

GREAT BAY ESTUARINE DATA: CRUISE #28 4/17/78

STA #	DEPTH TIME	TEMP SAL	SIGMA-t	OXYGEN % SAT	PO4 TOT PO4	NO3 NO2	SiO4 NH4	NO3/PO4 SUSP Ld	pH CHL a	CARO PHAE	ROW #
	4.0	6.0	11.42	7.41	0.36	3.22	36.5	8.98	---	---	23
	12:50	14.432		93.6	---	0.39	3.35	2.66	---	---	
	9.0	5.5	16.28	---	0.34	2.63	26.9	7.83	8.04	1.76	24
	12:50	20.566		---	1.16	0.32	3.11	3.05	0.92	1.33	
3-1	0.2	6.0	4.19	---	0.29	3.77	64.1	13.16	---	---	25
	13:04	5.175		---	---	0.32	3.70	3.61	---	---	
	1.2	5.9	5.18	---	0.32	3.70	62.1	11.42	---	---	26
	13:04	6.437		---	---	0.31	3.23	3.75	---	---	
	4.0	5.6	5.45	---	0.45	3.04	33.5	6.72	---	---	27
	13:04	6.768		---	---	0.38	2.56	2.51	---	---	
3-2	0.2	6.6	11.49	---	0.32	3.94	39.9	12.34	---	---	28
	13:17	14.577		---	---	0.47	3.72	3.51	---	---	
	1.2	6.5	11.50	---	0.29	3.87	39.9	13.44	---	---	29
	13:17	14.575		---	---	0.44	3.86	3.41	---	---	
	4.0	6.2	11.79	---	0.28	3.73	39.3	13.29	---	---	30
	13:17	14.914		---	---	0.46	3.68	3.48	---	---	
	13.0	6.0	13.44	---	0.27	3.30	35.0	12.36	---	---	31
	13:17	17.008		---	---	0.43	3.62	2.96	---	---	
4	0.2	7.1	9.40	7.51	0.35	4.28	44.5	12.08	7.93	1.84	32
	13:35	11.945		95.9	2.03	0.52	4.02	2.88	0.57	2.07	
	1.2	7.0	10.12	---	0.33	4.10	42.5	12.27	---	2.06	33
	13:35	12.869		---	---	0.46	4.09	2.54	1.14	1.10	
	2.0	6.8	11.44	7.71	0.31	3.77	39.6	12.14	7.96	---	34
	13:35	14.539		99.4	1.20	0.44	3.89	2.69	---	---	
5	0.2	7.5	9.72	7.49	0.75	4.55	46.4	6.02	7.86	2.27	35
	13:50	12.407		96.8	1.35	0.57	7.48	3.35	---	---	
	1.2	7.0	10.20	7.39	0.55	4.35	44.0	7.97	7.91	1.97	36
	13:50	12.966		94.7	1.02	0.53	5.72	4.08	1.26	1.54	
	4.0	7.0	10.64	---	0.38	4.19	42.6	10.93	---	---	37
	13:50	13.525		---	---	0.50	4.40	3.46	---	---	
	8.0	6.8	11.17	7.35	0.46	4.18	41.8	9.11	7.92	2.36	38
	13:50	14.187		94.5	1.05	0.52	4.60	1.06	1.95	0.70	
6	0.2	7.6	8.23	7.34	0.27	4.41	48.5	16.49	7.72	2.79	39
	14:17	10.495		93.9	0.99	0.64	3.57	5.61	1.72	1.89	
	1.2	7.6	8.35	7.34	0.30	4.49	48.1	15.13	7.78	2.06	40
	14:17	10.653		94.0	1.76	0.57	3.55	5.75	0.23	3.62	
	4.0	7.0	9.02	---	0.29	4.15	45.9	14.44	---	---	41
	14:17	11.458		---	---	0.54	3.44	4.41	---	---	
	14.0	6.7	10.49	7.44	0.27	4.09	42.6	15.21	7.90	2.36	42
	14:17	13.309		94.9	1.26	0.50	3.73	4.48	1.14	1.90	
7	0.2	7.2	7.49	7.39	0.31	4.18	---	13.52	7.69	3.04	43
	14:34	9.511		93.1	1.05	0.59	3.58	4.75	2.06	2.75	
	1.2	7.3	7.09	7.40	0.30	4.00	50.6	13.15	7.70	3.00	44
	14:34	8.999		93.1	1.13	0.51	3.48	4.81	2.06	2.75	

GREAT BAY ESTUARINE DATA: CRUISE #28 4/17/78

STA #	DEPTH TIME	TEMP SAL	SIGMA-t	OXYGEN % SAT	PO4 TOT PO4	NO3 NO2	SiO4 NH4	NO3/PO4 SUSP Ld	pH CHL a	CARO PHAE	ROW #
	4.0	7.2	9.16	---	0.30	4.43	46.8	15.00	---	---	45
	14:34	11.657		---	---	0.64	3.67	5.72	---	---	
	7.0	6.4	10.77	7.06	0.30	4.22	42.1	13.96	7.90	2.46	46
	14:34	13.630		89.6	1.14	0.53	3.94	5.08	0.80	2.48	

GREAT BAY ESTUARINE DATA: CRUISE #29 5/16/78

STA #	DEPTH TIME	TEMP SAL	SIGMA-t	OXYGEN % SAT	PO4 TOT PO4	NO3 NO2	SiO4 NH4	NO3/PO4 SUSP Ld	pH CHL a	CARO PHAE	ROW #
1	0.2	7.5	22.75	6.89	0.23	0.56	8.18	2.43	8.03	2.10	1
	10:35	29.093		99.2	2.08	0.23	2.94	3.22	1.20	1.67	
	1.2	7.5	23.09	6.92	0.22	0.54	9.32	2.43	8.04	2.73	2
	10:35	29.521		100.	2.01	0.21	2.75	3.42	0.72	2.59	
	4.0	7.5	23.29	---	0.17	0.34	6.76	1.99	---	---	3
	10:35	29.780		---	---	0.26	4.01	4.80	---	---	
	10.0	7.2	23.48	7.01	0.21	0.32	8.16	1.54	8.09	3.30	4
	10:35	29.966		101.	2.10	0.21	2.70	4.53	0.30	3.76	
1-1	0.2	9.0	21.62	---	0.30	1.26	8.64	4.23	---	---	5
	10:50	27.910		---	---	0.33	3.38	3.43	---	---	
	1.2	9.0	21.58	---	0.27	1.20	8.65	4.38	---	---	6
	10:50	27.848		---	---	0.36	3.02	4.02	---	---	
	4.0	9.0	21.70	---	0.29	1.24	9.13	4.28	---	---	7
	10:50	28.011		---	---	0.28	4.77	3.80	---	---	
	16.0	8.7	22.82	---	0.25	0.52	8.23	2.09	---	---	8
	10:50	29.382		---	---	0.31	4.11	4.43	---	---	
2	0.2	9.6	19.86	6.50	0.33	1.65	9.90	4.95	7.94	2.25	9
	11:13	25.754		96.1	1.13	0.45	3.35	3.08	0.70	2.31	
	1.2	9.6	19.85	6.63	0.35	1.69	9.82	4.88	8.00	2.36	10
	11:13	25.745		98.1	1.41	0.39	4.53	3.23	1.00	2.01	
	4.0	9.8	19.80	---	0.31	1.71	11.4	5.51	---	---	11
	11:13	25.717		---	---	0.39	3.58	3.31	---	---	
	15.0	9.8	19.86	6.50	0.36	1.70	9.50	4.76	8.01	2.74	12
	11:13	25.796		96.6	1.25	0.43	3.40	3.78	1.00	2.36	
2-2	0.2	9.0	18.31	---	0.38	1.94	11.3	5.08	---	---	13
	11:39	23.659		---	---	0.45	3.94	3.43	---	---	
	1.2	10.8	17.97	---	0.40	1.90	11.4	4.78	---	---	14
	11:39	23.552		---	---	0.46	3.82	3.53	---	---	
	4.0	10.8	17.96	---	0.36	1.90	11.6	5.34	---	---	15
	11:39	23.545		---	---	0.45	3.74	3.88	---	---	
	12.0	10.8	17.96	---	0.36	1.89	11.7	5.25	---	---	16
	11:39	23.541		---	---	0.47	4.21	3.83	---	---	
2-4	0.2	11.0	14.54	---	0.40	2.37	19.2	5.86	---	---	17
	12:00	19.160		---	---	0.55	4.56	6.78	---	---	
	1.2	11.0	14.74	---	0.39	2.37	19.0	6.13	---	---	18
	12:00	19.412		---	---	0.46	4.84	6.72	---	---	
	4.0	11.0	15.50	---	0.38	2.29	18.3	6.08	---	---	19
	12:00	20.392		---	---	0.54	4.48	6.91	---	---	
	16.0	11.0	16.50	---	0.38	2.03	12.0	5.35	---	---	20
	12:00	21.690		---	---	0.39	3.80	8.04	---	---	
3	0.2	11.2	7.02	6.73	0.54	4.53	48.5	8.40	7.58	5.05	21
	12:30	9.425		93.1	1.67	0.61	7.70	15.20	1.34	5.77	
	1.2	11.4	6.94	6.70	0.62	4.42	45.8	7.16	7.59	4.15	22
	12:30	9.352		93.0	1.69	0.68	7.60	31.10	0.67	5.69	

GREAT BAY ESTUARINE DATA: CRUISE #29 5/16/78

STA #	DEPTH / TIME	TEMP / SAL	SIGMA-t	OXYGEN / % SAT	PO4 / TOT PO4	NO3 / NO2	SiO4 / NH4	NO3/PO4 / SUSP Ld	pH / CHL a	CARO / PHAE	ROW #
	4.0 12:30	11.0 21.091	16.04	--- ---	0.45 ---	2.22 0.43	16.2 4.42	4.92 11.90	--- ---	--- ---	23
	9.0 12:30	10.8 22.387	17.07	6.31 93.8	0.44 2.40	1.84 0.53	12.5 4.03	4.18 12.80	7.86 1.07	4.80 5.29	24
3-1	0.2 12:47	11.5 4.997	3.58	--- ---	0.76 ---	5.49 0.76	57.0 8.27	7.27 23.10	--- ---	--- ---	25
	1.2 12:47	11.5 4.766	3.40	--- ---	0.76 ---	5.43 0.70	57.4 8.08	7.14 21.70	--- ---	--- ---	26
	4.0 12:47	11.0 21.488	16.34	--- ---	0.48 ---	2.12 0.54	16.2 5.02	4.39 17.50	--- ---	--- ---	27
3-2	0.2 13:09	11.0 19.601	14.88	--- ---	0.43 ---	2.44 0.41	14.5 2.80	5.70 11.20	--- ---	--- ---	28
	1.2 13:09	11.0 21.070	16.02	--- ---	0.31 ---	1.81 0.44	11.2 3.43	5.81 8.82	--- ---	--- ---	29
	4.0 13:09	11.0 22.352	17.01	--- ---	0.23 ---	1.05 0.30	6.90 2.27	4.58 8.11	--- ---	--- ---	30
	11.5 13:09	11.2 22.317	16.95	--- ---	0.24 ---	1.14 0.39	7.05 2.14	4.69 6.97	--- ---	--- ---	31
4	0.2 13:25	10.9 14.822	11.21	6.42 91.2	0.80 1.99	3.96 0.61	26.6 3.96	4.97 22.30	7.66 ---	3.94 ---	32
	1.2 13:25	11.0 14.348	10.83	6.24 88.6	0.78 ---	3.99 0.56	27.9 3.99	5.14 21.60	--- 3.47	4.80 1.86	33
	2.0 13:25	10.9 17.309	13.13	--- ---	0.65 1.64	2.98 0.55	20.2 3.60	4.56 22.80	7.79 ---	--- ---	34
5	0.2 13:40	10.3 6.406	4.80	6.85 91.0	1.18 2.89	9.06 0.89	50.2 5.89	7.68 30.70	7.16 1.07	4.15 5.01	35
	1.2 13:40	11.0 18.687	14.18	6.50 94.9	0.43 1.65	2.52 0.45	14.8 3.70	5.86 14.70	7.84 2.67	4.90 5.09	36
	4.0 13:40	11.3 21.549	16.34	--- ---	0.21 ---	0.96 0.35	7.82 1.85	4.50 19.20	--- ---	--- ---	37
	9.0 13:40	11.3 21.818	16.55	6.27 93.9	0.33 1.36	1.09 0.45	8.05 2.38	3.32 37.60	7.92 3.20	2.55 4.46	38
6	0.2 14:00	11.2 15.765	11.90	6.55 94.3	0.47 1.84	1.74 0.43	15.4 3.43	3.74 25.50	7.67 4.01	7.90 7.68	39
	1.2 14:00	11.2 15.363	11.59	6.59 94.6	0.49 1.91	1.57 0.51	15.5 3.42	3.23 51.80	7.80 0.53	8.40 11.33	40
	4.0 14:00	11.3 18.410	13.92	--- ---	0.37 ---	1.11 0.51	13.4 2.69	2.99 28.40	--- ---	--- ---	41
	13.0 14:00	11.6 20.146	15.21	5.64 84.2	0.22 1.55	0.65 0.39	6.04 1.61	2.94 24.90	7.90 4.81	7.40 5.94	42
7	0.2 14:23	11.3 4.844	3.49	6.80 91.6	0.92 3.04	3.87 0.83	41.1 6.80	4.22 48.90	7.75 1.60	7.25 8.49	43
	1.2 14:23	11.3 6.050	4.41	6.60 89.6	0.73 2.89	1.65 0.44	13.1 5.11	2.27 47.90	7.37 2.54	6.90 6.06	44

GREAT BAY ESTUARINE DATA: CRUISE #29 5/16/78

STA #	DEPTH TIME	TEMP SAL	SIGMA-t	OXYGEN % SAT	PO4 TOT PO4	NO3 NO2	SiO4 NH4	NO3/PO4 SUSP Ld	pH CHL a	CARO PHAE	ROW #
	4.0	11.3	14.07	---	0.35	0.97	8.91	2.72	---	---	45
	14:23	18.600		---	---	0.43	2.19	72.60	---	---	
	7.0	11.3	14.55	6.28	0.34	0.85	7.89	2.51	7.84	8.65	46
	14:23	19.228		92.6	1.97	0.33	1.70	43.90	2.40	10.68	

GREAT BAY ESTUARINE DATA: CRUISE #30 6/13/78

STA #	DEPTH / TIME	TEMP / SAL	SIGMA-t	OXYGEN / % SAT	PO4 / TOT PO4	NO3 / NO2	Si04 / NH4	NO3/PO4 / SUSP Ld	pH / CHL a	CARO / PHAE	ROW #
1	0.2	9.0	23.62	6.53	1.01	3.38	9.50	3.35	7.66	1.24	1
	10:00	30.465		98.2	1.34	0.24	3.04	---	0.50	1.11	
	1.2	8.7	23.71	6.59	0.98	3.15	9.73	3.23	7.75	1.16	2
	10:00	30.523		98.5	1.10	0.20	3.04	8.05	0.20	1.27	
	4.0	8.0	23.80	---	1.04	3.20	9.80	3.08	---	---	3
	10:00	30.511		---	---	0.21	3.03	3.91	---	---	
	12.0	8.5	24.00	6.69	1.06	3.12	9.93	2.95	7.76	4.61	4
	10:00	30.861		100.	1.61	0.19	2.74	---	1.00	4.82	
1-1	0.2	10.9	22.24	---	1.28	3.86	11.9	3.02	---	---	5
	10:22	29.105		---	---	0.27	3.65	---	---	---	
	1.2	10.4	22.27	---	1.05	3.37	13.9	3.21	---	---	6
	10:22	29.019		---	---	0.28	3.70	1.46	---	---	
	4.0	9.9	22.40	---	1.01	3.75	20.5	3.71	---	---	7
	10:22	29.081		---	---	0.27	3.71	---	---	---	
	15.0	8.7	23.54	---	0.97	3.25	9.30	3.35	---	---	8
	10:22	30.315		---	---	0.22	3.00	3.91	---	---	
2	0.2	13.2	19.46	5.72	1.05	4.15	19.7	3.95	7.61	1.88	9
	10:45	26.009		91.7	1.31	0.39	5.05	2.56	0.80	1.30	
	1.2	13.0	19.45	5.76	1.04	4.43	19.9	4.26	7.66	1.99	10
	10:45	25.956		91.9	1.26	0.42	4.92	2.91	0.90	1.27	
	4.0	13.0	19.47	---	1.07	4.23	19.7	3.95	---	---	11
	10:45	25.977		---	---	0.42	4.94	2.11	---	---	
	13.0	12.1	20.08	5.88	1.10	4.05	16.4	3.68	7.69	2.36	12
	10:45	26.567		92.4	1.63	0.42	4.83	2.11	0.50	1.81	
2-2	0.2	15.4	17.57	---	1.03	4.49	23.0	4.36	---	---	13
	11:10	24.117		---	---	0.46	5.54	1.78	---	---	
	1.2	15.0	17.67	---	1.04	4.80	23.2	4.62	---	---	14
	11:10	24.131		---	---	0.50	5.49	3.41	---	---	
	4.0	14.9	17.70	---	1.03	4.54	22.9	4.41	---	---	15
	11:10	24.145		---	---	0.48	5.53	2.92	---	---	
	15.0	14.1	18.23	---	1.02	4.40	21.9	4.31	---	---	16
	11:10	24.640		---	---	0.46	5.48	2.96	---	---	
2-4	0.2	17.0	15.55	---	0.96	4.79	27.9	5.01	---	---	17
	11:43	21.903		---	---	0.56	5.56	---	1.51	---	
	1.2	17.0	15.57	---	0.93	5.07	28.8	5.44	---	---	18
	11:43	21.937		---	---	0.56	5.37	3.16	---	---	
	4.0	16.5	15.66	---	0.98	4.91	30.4	5.01	---	---	19
	11:43	21.908		---	---	0.56	5.55	2.46	---	---	
	14.0	16.3	15.73	---	0.97	4.81	28.0	4.95	---	---	20
	11:43	21.950		---	---	0.54	5.41	3.61	---	---	
3	0.2	18.5	9.11	4.99	0.99	4.96	57.6	5.01	7.21	3.86	21
	12:10	13.845		82.8	2.01	0.57	7.11	6.15	1.70	2.57	
	1.2	17.5	11.12	4.97	1.12	5.46	47.2	4.87	7.31	3.60	22
	12:10	16.219		82.0	1.85	0.56	7.05	4.86	1.20	2.72	

GREAT BAY ESTUARINE DATA: CRUISE #30 6/13/78

STA #	DEPTH TIME	TEMP SAL	SIGMA-t	OXYGEN % SAT	PO4 TOT PO4	NO3 NO2	SiO4 NH4	NO3/PO4 SUSP Ld	pH CHL a	CARO PHAE	ROW #
	4.0	17.0	15.30	---	0.99	4.76	29.4	4.81	---	---	23
	12:10	21.580		---	---	0.54	5.84	4.31	---	---	
	8.0	16.0	16.10	5.32	0.99	4.64	28.1	4.71	7.53	3.60	24
	12:10	22.345		88.3	1.47	0.53	5.87	5.45	1.80	2.05	
3-1	0.2	19.5	5.85	---	0.95	5.05	69.9	5.30	---	---	25
	12:00	9.805		---	---	0.60	6.92	3.91	---	---	
	1.2	19.2	5.95	---	0.95	4.89	72.6	5.15	---	---	26
	12:00	9.856		---	---	0.53	6.81	4.01	---	---	
	4.0	15.5	16.44	---	1.06	4.47	28.3	4.21	---	---	27
	12:00	22.659		---	---	0.52	6.13	12.40	---	---	
3-2	0.2	17.8	14.77	---	0.90	5.37	29.0	5.94	---	---	28
	12:24	21.114		---	---	0.62	4.91	2.10	---	---	
	1.2	17.8	14.74	---	0.89	5.10	28.8	5.71	---	---	29
	12:24	21.075		---	---	0.63	4.88	2.36	---	---	
	4.0	17.6	14.82	---	0.94	4.97	28.7	5.31	---	---	30
	12:24	21.120		---	---	0.60	4.93	4.16	---	---	
	13.0	17.6	15.41	---	0.92	5.10	27.4	5.54	---	---	31
	12:24	21.895		---	---	0.60	5.15	---	---	---	
4	0.2	20.0	11.69	5.07	0.89	4.95	36.1	5.58	7.46	9.56	32
	12:38	17.705		88.6	1.92	0.68	4.53	4.06	7.78	2.63	
	1.2	20.0	12.48	---	0.89	5.05	34.0	5.67	---	6.56	33
	12:38	18.758		---	---	0.61	4.72	12.90	3.55	4.62	
	3.0	19.8	13.73	5.20	0.92	4.84	31.4	5.24	7.50	---	34
	12:38	20.354		92.0	1.66	0.61	5.25	14.60	---	---	
5	0.2	19.0	13.56	5.08	0.98	5.26	33.9	5.38	7.44	8.29	35
	12:51	19.870		88.2	2.12	0.67	5.47	2.56	4.91	5.05	
	1.2	18.8	13.93	5.16	0.94	5.28	35.9	5.59	7.54	7.24	36
	12:51	20.306		89.5	1.90	0.64	5.65	3.96	5.61	2.94	
	4.0	18.0	14.46	---	0.93	5.46	31.1	5.89	---	---	37
	12:51	20.759		---	---	0.65	5.19	3.17	---	---	
	15.0	17.1	15.07	5.32	0.92	5.39	29.6	5.84	7.59	5.36	38
	12:51	21.298		89.8	1.98	0.62	5.16	9.60	3.00	3.30	
6	0.2	19.5	14.46	5.43	0.79	5.08	33.8	6.41	7.51	8.93	39
	13:15	18.789		76.7	2.32	0.66	3.92	7.47	6.31	4.07	
	1.2	19.5	12.69	5.32	0.57	5.65	33.8	9.89	7.57	9.43	40
	13:15	18.881		92.7	1.76	0.71	3.63	6.45	7.21	2.96	
	4.0	19.6	13.02	---	0.77	5.50	32.8	7.15	---	---	41
	13:15	19.343		---	---	0.71	3.06	4.21	---	---	
	12.0	19.0	13.66	5.20	0.81	5.48	30.2	6.81	7.61	7.11	42
	13:15	20.003		90.4	1.64	0.67	4.24	8.05	4.69	3.48	
7	0.2	19.8	12.42	5.32	0.85	5.65	34.8	6.62	7.54	7.71	43
	13:30	18.614		93.1	3.13	0.71	4.59	6.60	4.58	5.03	
	1.2	19.5	12.64	5.31	0.88	5.26	34.1	5.96	7.51	7.20	44
	13:30	18.807		92.5	1.94	0.69	4.61	6.90	4.58	4.47	

GREAT BAY ESTUARINE DATA: CRUISE #30 6/13/78

STA #	DEPTH TIME	TEMP SAL	SIGMA-t	OXYGEN % SAT	PO4 TOT PO4	NO3 NO2	SiO4 NH4	NO3/PO4 SUSP Ld	pH CHL a	CARO PHAE	ROW #
	4.0	19.6	12.99	---	0.79	5.53	33.7	7.04	---	---	45
	13:30	19.305		---	---	0.70	3.99	7.70	---	---	
	7.0	19.1	13.42	5.35	0.79	5.35	31.0	6.77	7.58	7.33	46
	13:30	19.722		93.0	1.54	0.68	3.86	6.30	4.12	4.69	