

Semi-annual water column
monitoring report:
February - July 1998

Massachusetts Water Resources Authority

Environmental Quality Department
Report 1999-04



**Semi-Annual Water Column Monitoring Report
February – July 1998**

Submitted to

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EXECUTIVE SUMMARY

The Massachusetts Water Resources Authority (MWRA) has collected water quality data in Massachusetts and Cape Cod Bays for the Harbor and Outfall Monitoring (HOM) Program since 1992. This monitoring is in support of the HOM Program mission to assess the potential environmental effects of the relocation of effluent discharge from Boston Harbor to Massachusetts Bay. The data are being collected to establish baseline water quality conditions and ultimately to provide the means to detect significant departure from that baseline. Battelle was contracted by MWRA to conduct baseline water quality surveys in Massachusetts and Cape Cod Bays during 1998 to 2000. The surveys have been designed to evaluate water quality on both a high-frequency basis for a limited area in the vicinity of the outfall site (nearfield) and a low-frequency basis over an extended area throughout Boston Harbor, Massachusetts Bay, and Cape Cod Bay (farfield). This semi-annual report summarizes water column monitoring results for the nine surveys conducted from February through July 1998.

The winter to spring transition in Massachusetts and Cape Cod Bays is usually characterized by a series of physical, biological, and chemical events: seasonal stratification, the winter/spring phytoplankton bloom, and nutrient depletion. For February to July 1998, however, conditions in the Bays were atypical marked by the delayed onset of seasonal stratification, lack of a winter/spring phytoplankton bloom, and nutrient replete conditions.

In the nearfield area, the water column had begun to stratify by early May and by mid-May there was a strong density gradient between the surface and bottom waters. In comparison to previous baseline monitoring years, the onset in stratification was delayed by 2 to 4 weeks in 1998. Due to the timing of surveys, seasonal stratification was not observed in the farfield until June. A significant rain event occurred prior to the June combined survey and, as a result of the rainfall and concomitant increase in runoff, low salinity surface waters were observed along the coast from Boston to Gloucester and into the northern and eastern portion of the nearfield. In these areas, the presence of low salinity surface waters served to intensify water column stratification.

Relative to other years, production at all three productivity stations was very low. No winter/spring phytoplankton bloom was observed during this sampling period. Generally, the nearfield area is characterized by the occurrence of a winter/spring phytoplankton bloom, while a gradual increase in areal production from winter to summer is more typical for Boston Harbor. In 1995 to 1997, the winter/spring phytoplankton bloom observed at the nearfield stations reached areal production values of 1000 to 4000 mg C m⁻² d⁻¹ and the blooms typically lasted 2-3 months. The absence of a winter/spring phytoplankton bloom during 1998 is being examined further and represents a major change in the seasonal productivity pattern relative to other years for the nearfield area.

The most striking observation from the nutrient data for the first half of 1998 was the lack of a strong spring draw down of nutrients in the nearfield. A combination of physical and biological factors contributed to the extended period of replete nutrients in the spring of 1998. Seasonal stratification did not develop until May, thus for much of the spring the water column was well mixed supplying nutrients to the surface waters. Additionally, storms in late February may have contributed not only to the instability of the water column, but also to increased terrestrial runoff of nutrients into the bays. Finally, areal productivity was relatively low throughout the region, there was no winter/spring diatom bloom, and the abundance of phytoplankton remained < 10⁶ until May, thus biological nutrient uptake was relatively low. The combination of physical instability and biological inactivity resulted in elevated nutrient concentrations in the surface waters throughout most of the region from February to June.

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1.0 INTRODUCTION

1.1 Program Overview

The Massachusetts Water Resources Authority (MWRA) has implemented a long-term Harbor and Outfall Monitoring (HOM) Program for Massachusetts and Cape Cod Bays. The objective of the HOM Program is to (1) test for compliance with NPDES permit requirements; (2) test whether the impact of the discharge on the environment is within the bounds projected by the SEIS; and (3) test whether change within the system exceeds the Contingency Plan thresholds. A detailed description of the monitoring and its rationale is provided in the Effluent Outfall Monitoring Plan developed for the baseline period and the post discharge monitoring plan (MWRA, 1997a).

To help establish the present water quality conditions with respect to nutrients, water properties, phytoplankton and zooplankton, and water-column respiration and productivity, the MWRA contracted with Battelle to conduct baseline water quality surveys in Massachusetts and Cape Cod Bays during 1998 to 2000. The surveys have been designed to evaluate water quality on both a high-frequency basis for a limited area (nearfield) and a low-frequency basis for an extended area (farfield). The nearfield stations are located in the vicinity of the outfall site (Figure 1-1) and the farfield stations are located throughout Boston Harbor, Massachusetts Bay, and Cape Cod Bay (Figure 1-2). The stations for the farfield surveys have been further separated into regional groupings according to geographic location to simplify regional data comparisons. This semi-annual report summarizes water column monitoring results for the nine surveys conducted from February through July 1998 (Table 1-1).

Table 1-1. Water Quality Surveys for WF981-WN989 February to July 1998

Survey #	Type of Survey	Survey Dates
WF981	Nearfield/Farfield	February 3-10
WF982	Nearfield/Farfield	February 27 – March 2
WN983	Nearfield	March 24
WF984	Nearfield/Farfield	March 31 – April 3
WN985	Nearfield	April 30, May 1
WN986	Nearfield	May 20
WF987	Nearfield/Farfield	June 16-22
WN988	Nearfield	July 8,13
WN989	Nearfield	July 23

Initial data summaries, along with specific field information, are available in individual survey reports submitted immediately following each survey. In addition, nutrient data reports (including calibration information, sensor and water chemistry data), plankton data reports, and productivity and respiration data reports are each submitted five times annually. Raw data summarized within this or any of the other reports are available from MWRA in hard copy and electronic formats.

1.2 Organization of the Semi-Annual Report

The scope of the semi-annual report is focused primarily towards providing an initial compilation of the water column data collected during the reporting period. Secondly, integrated physical and biological results are discussed for key water column events. The report first provides a summary of the survey and laboratory methods (Section 2). The bulk of the report, as discussed in further detail below, presents results of water column data from the first nine surveys of 1998 (Sections 3-5). Finally, the major findings of the semi-annual period are summarized in Section 6.

Section 3 data are provided in data summary tables. The summary tables include the major numeric results of water column surveys in the semi-annual period by survey. A description of data selection, integration information, and summary statistics are included with that section.

Sections 4 (Results of Water Column Measurements) and 5 (Productivity, Respiration, and Plankton Results) include preliminary interpretation of the data including selected graphic representations of the horizontal and vertical distribution of water column parameters in both the farfield and nearfield. The horizontal distribution of physical parameters is presented through regional contour plots. The vertical distribution of water column parameters is presented using time-series plots of averaged surface and bottom water column parameters and along vertical transects in the survey area (Figure 1-3). The time-series plots utilize average values of the surface water sample (the “A” depth, as described in Section 3), and the bottom water collection depth (the “E” depth). Examining data trends along four farfield transects (Boston-Nearfield, Cohasset, Marshfield and Nearfield-Marshfield), and one nearfield transect, allows three-dimensional analysis of water column conditions during each survey. One offshore transect (Boundary) enables analysis of results in the outer most boundary of the survey area during farfield surveys.

Results of water column physical, nutrient, chlorophyll, and dissolved oxygen data are provided in Section 4. Survey results were organized according to the physical characteristics of the water column during the semi-annual period. The timing of water column vertical stratification, and the physical and biological status of the water column during stratification, significantly effects the temporal response of the water quality parameters which provide a major focus for assessing effects of the outfall. This report describes the horizontal and vertical characterization of the water column during pre-stratification stage (WF981 – WF984), and then further delineated processes occurring during the early stratification stage (WN985 – WN989). Time-series data are commonly provided for the entire semi-annual period for clarity and context of the data presentation.

Productivity, respiration, and plankton measurements, along with corresponding discussion of chlorophyll and dissolved oxygen results, are provided in Section 5. Discussion of the biological processes and trends during the semi-annual period is included in this section. A summary of the major water column events and unusual features of the semi-annual period is presented in Section 6. References are provided in Section 7.

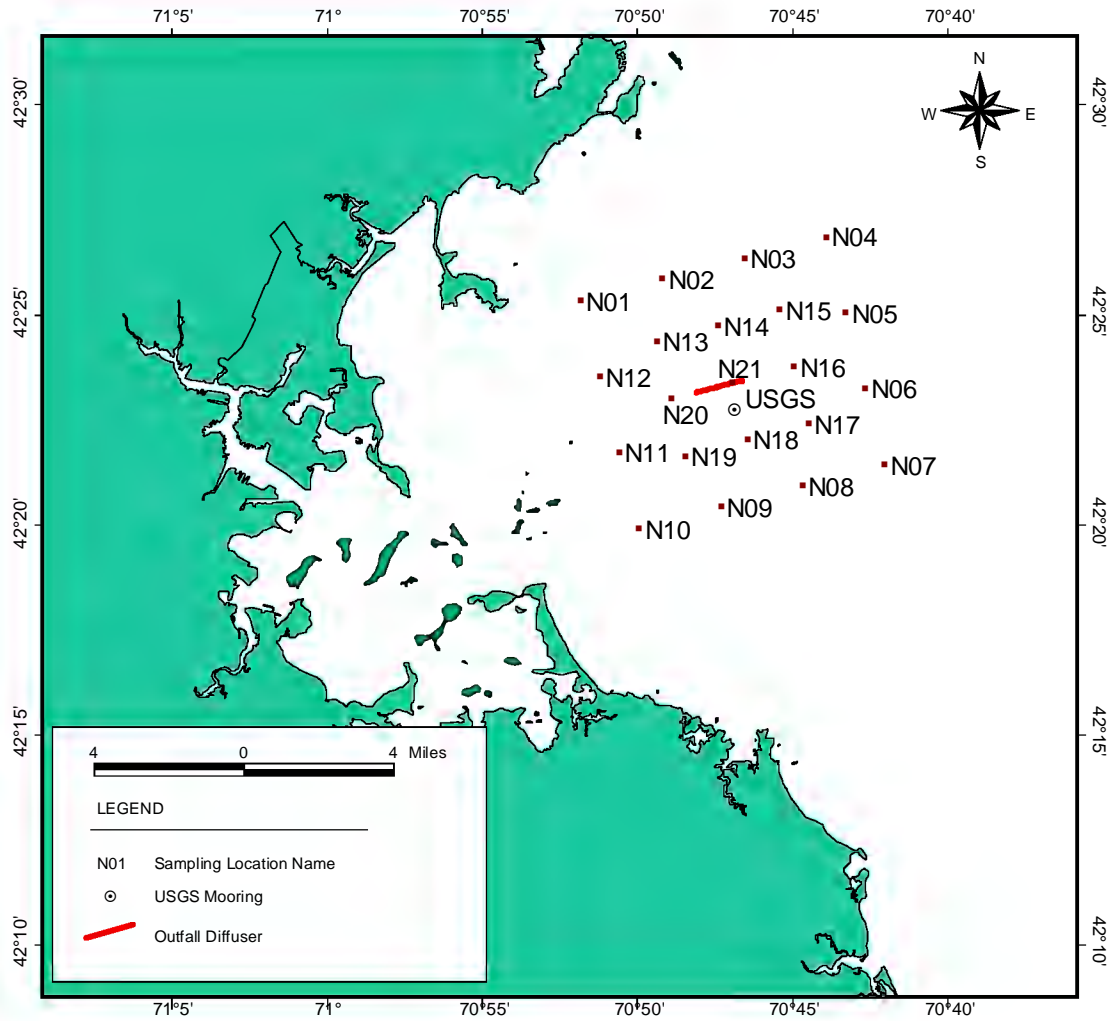


Figure 1-1. Locations of MWRA Offshore Outfall, Nearfield Stations and USGS Mooring

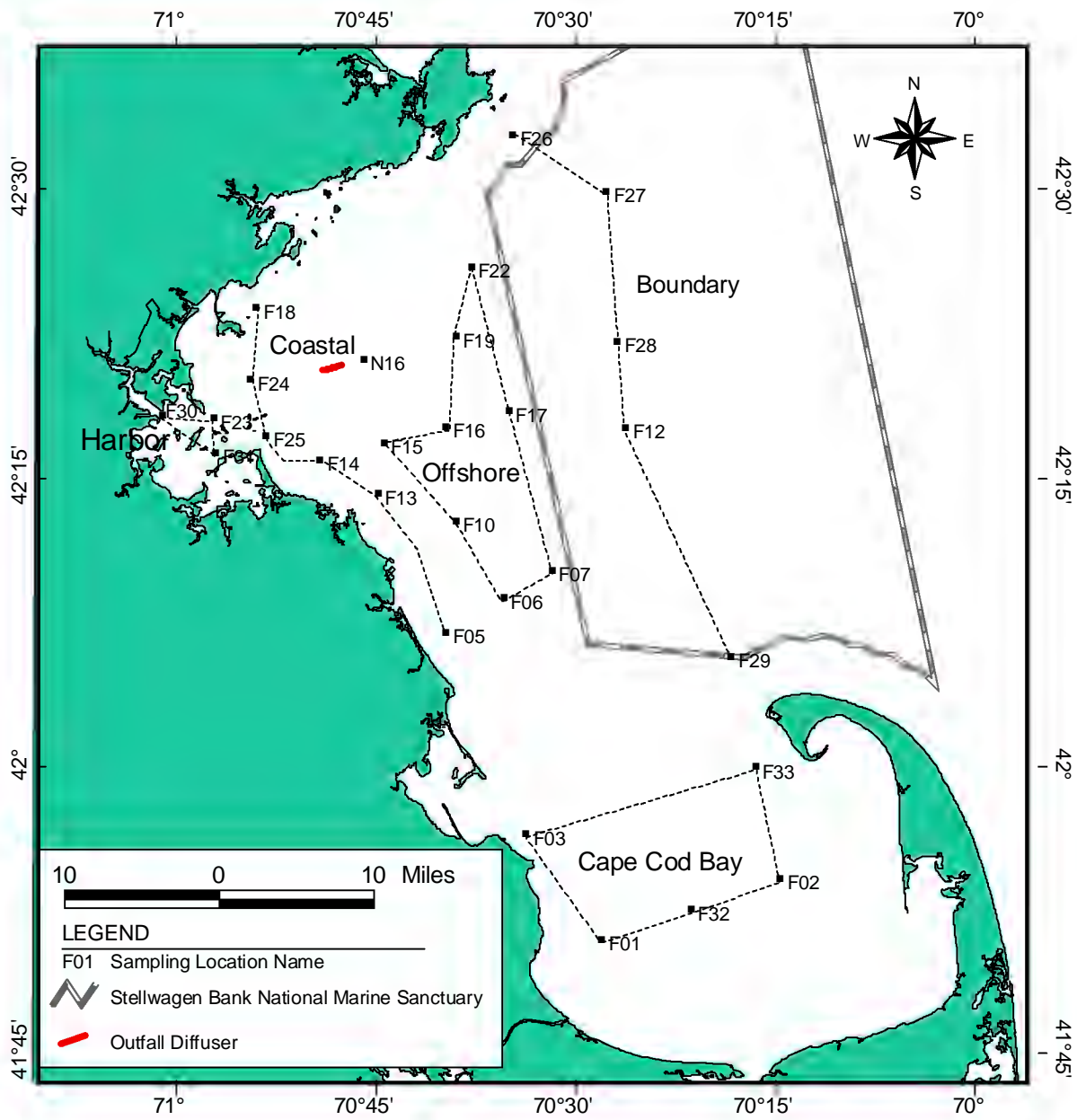


Figure 1-2. Locations of Farfield Stations

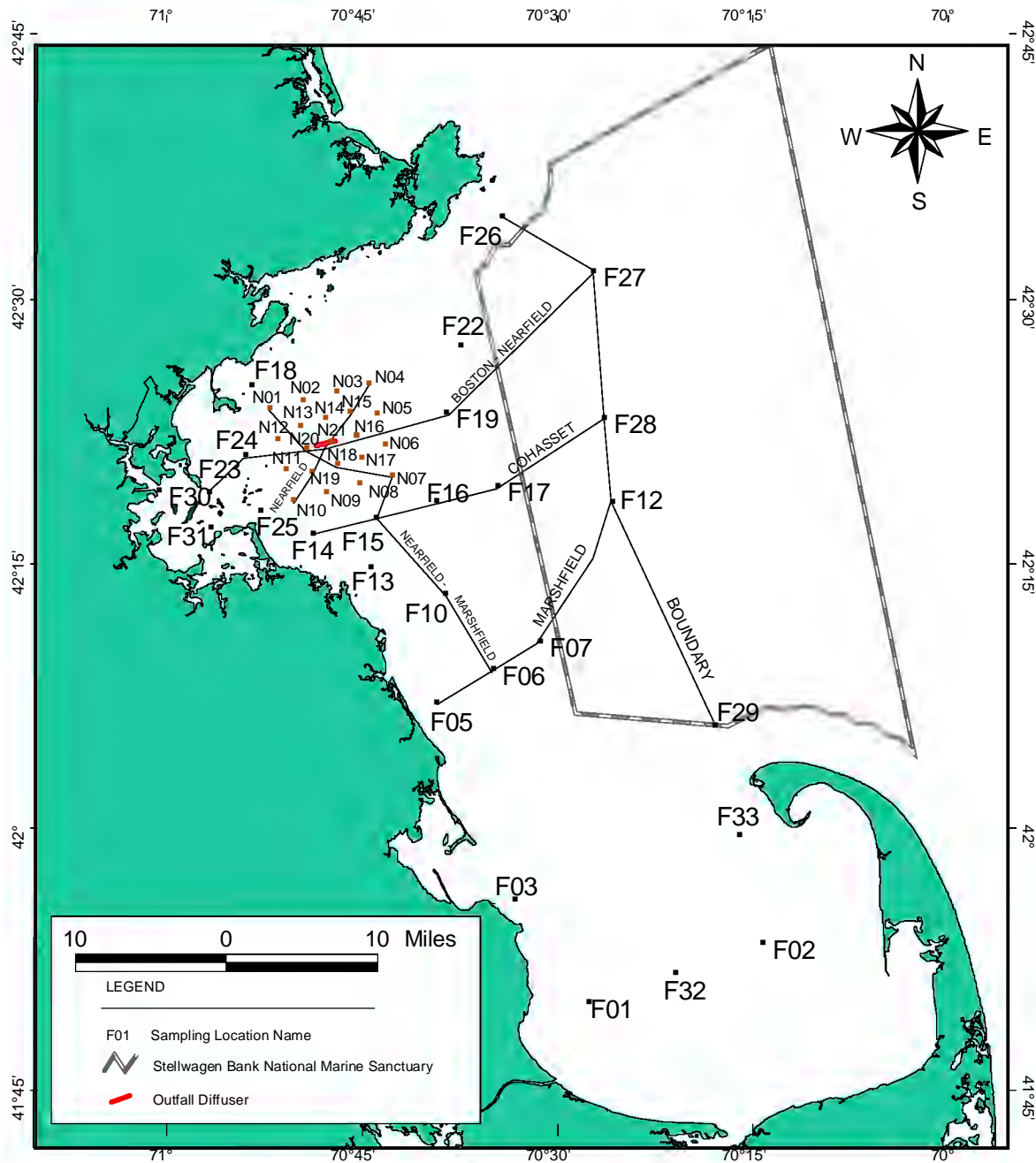


Figure 1-3. Location of Stations Selected for Vertical Transect Graphics Showing Transect Name

2.0 METHODS

This section describes general methods of data collection and sampling for the first nine water column monitoring surveys of 1998. Section 2.1 describes data collection methods, including survey dates, sampling platforms, and analyses performed. Section 2.2 describes the sampling schema undertaken, and Section 2.3 details specific operations for the first 1998 semi-annual period. Specific details of field sampling and analytical procedures, laboratory sample processing and analysis, sample handling and custody, calibration and preventative maintenance, documentation, data evaluation, and data quality procedures are discussed in the Water Quality Monitoring CW/QAPP (Albro *et al.*, 1998). Details on productivity sampling procedures and analytical methods are also available in Appendix A.

2.1 Data Collection

The farfield and nearfield water quality surveys for 1998 represent a continuation of the baseline water quality monitoring conducted from 1992 – 1997. The monitoring program has been improved over the years as more data have been collected and evaluated. For 1998, two farfield stations (F32 and F33) were added in Cape Cod Bay during the first three farfield surveys of the year. These two stations were sampled for zooplankton and hydrographic (CTD) properties.

Water quality data for this report were collected from the sampling platforms *R/V Haley's Comet II* (now named *R/V Aquamonitor*), *M/V Seabreeze*, and *F/V Isabel S.* Continuous vertical profiles of the water column and discrete water samples were collected using a CTD/Go-Flo Bottle Rosette system. This system includes a deck unit to control the system, display *in situ* data, and store the data, and an underwater unit comprised of several environmental sensors, including conductivity, temperature, depth, dissolved oxygen, transmissometry, irradiance, and fluorescence. These measurements were obtained at each station by deploying the CTD; in general, one cast was made at each station. Water column profile data were collected during the downcast, and water samples were collected during the upcast by closing the Go-Flo bottles at selected depths, as discussed below.

Water samples were collected at five depths at each station, except at stations F30, F31, F32, and F33. Stations F30 and F31 are shallow and require only three depths while only zooplankton samples are collected at F32 and F33. These depths were selected during CTD deployment based on positions relative to the pycnocline or subsurface chlorophyll maximum. The bottom depth (within 5 meters of the sea floor) and the surface depth (within 3 meters of the water surface) of each cast remained constant and the mid-bottom, middle and mid-surface depths were selected to represent any variability in the water column. In general, the selected middle depth corresponded with the chlorophyll maximum and or pycnocline. When the chlorophyll maximum occurred significantly below or above the middle depth, the mid-bottom or mid-surface sampling event was substituted with the mid-depth sampling event and the “mid-depth” sample was collected within the maximum. In essence, the “mid-depth” sample in these instances was not collected from the middle depth, but shallower or deeper in the water column in order to capture the chlorophyll maximum layer. These nomenclature semantics result from a combination of field logistics and scientific relevance. In the field, the switching of the “mid-depth” sample with the mid-surface or mid-bottom was transparent to everyone except the NAVSAM operator who observed the subsurface chlorophyll structure and marked the events. The samples were processed in a consistent manner and a more comprehensive set of analyses were conducted for the surface, mid-depth/chlorophyll maximum, and bottom samples.

Samples from each depth at each station were collected by subsampling from the Go-Flo bottles into the appropriate sample container. Analyses performed on the water samples are summarized in Table 2-1. Samples for dissolved inorganic nutrients (DIN), dissolved organic carbon (DOC), total dissolved nitrogen (TDN) and phosphorus (TDP), particulate organic carbon (POC) and nitrogen

(PON), biogenic silica, particulate phosphorus (PP), chlorophyll *a* and phaeopigments, total suspended solids (TSS), urea, and phytoplankton (screened and rapid assessment) were filtered and preserved immediately after obtaining water from the appropriate Go-Flo bottles. Whole water phytoplankton samples (unfiltered) were obtained directly from the Go-Flo bottles and immediately preserved. Zooplankton samples were obtained by deploying a zooplankton net overboard and making an oblique tow of the upper two-thirds of the water column but with a maximum tow depth of 30 meters. Productivity samples were collected from the Go-Flo bottles, stored on ice and transferred to University of Rhode Island (URI) employees. Incubation was started no more than six hours after initial water collection at URI's laboratory. Respiration samples were collected from the Go-Flo bottles at four stations (F19, F23, N04, and N18). Incubations of the dark bottles were started within 30 minutes of sample collection. The dark bottle samples were maintained at a temperature within 2°C of the collection temperature for five to seven days until analysis.

2.2 Sampling Schema

A synopsis of the sampling schema for the analyses described above is outlined in Tables 2-1, 2-2, and 2-3. Station designations were assigned according to the type of analyses performed at that station (see Table 2-1). Productivity and respiration analyses were also conducted at certain stations and represented by the letters P and R, respectively. Table 2-1 lists the different analyses performed at each station. Tables 2-2 (nearfield stations) and 2-3 (farfield stations) provide the station name and type, and show the analyses performed at each depth. Station N16 is considered both a nearfield station (where it is designated as type A) and a farfield station (where it is designated a type D). Stations F32 and F33 are occupied during the first three farfield surveys of each year and collect zooplankton samples and hydrocast data only (designated as type Z).

Table 2-1. Station Types and Numbers (Five Depths Collected Unless Otherwise Noted)

Station Type	A	D	E	F	G ¹	P	R	Z
Number of Stations	5	8	26	3	2	3	4	2
Analysis Type								
Dissolved inorganic nutrients (NH ₄ , NO ₃ , NO ₂ , PO ₄ , and SiO ₄)	•	•	•	•	•	•		
Other nutrients (DOC, TDN, TDP, PC, PN, PP, Biogenic Si) ¹	•	•			•	•		
Chlorophyll ¹	•	•			•	•		
Total suspended solids ¹	•	•			•	•		
Dissolved oxygen	•	•		•	•	•		
Phytoplankton, urea ²		•			•	•		
Zooplankton ³		•			•	•		•
Respiration ¹						•	•	
Productivity, DIN						•		

¹Samples collected at three depths (bottom, mid-depth, and surface)

²Samples collected at two depths (mid-depth and surface)

³Samples collected at the surface

2.3 Operations Summary

Changes in the 1998 sampling schema from prior monitoring years included the addition of two new zooplankton stations in Cape Cod Bay, sampled during the first three farfield surveys (WF981, WF982, and WF984) and collecting special phytoplankton samples for methodological comparisons and comparability assessments. Field operations for water column sampling and analysis during the first semi-annual period were conducted as described above. Deviations from the CW/QAPP for nearfield surveys WN983, WN986, and WN989 had no effect on the data. Principal deviations for surveys WF981, WF982, WF984, WN985, WF987, and WN988 are described below. For additional information about a specific survey, the individual survey reports may be consulted.

During the farfield/nearfield survey in early February (WF981), the two fluorometers on the BOSS failed. The field crew collected extra chlorophyll samples at Stations F15, F16, F17, F19, F22, F26, and F03 to manually measure the chlorophyll concentrations at these stations. Both instruments were sent to the manufacturer for repair. Surface irradiance was not collected on February 3rd and 4th due to oversight when replacing a damaged hard drive. At station F22, a mid-surface sample was not collected due to a malfunctioning Go-Flo bottle, thus one dissolved inorganic nutrient sample was not collected.

Several DO samples were not measured during farfield/nearfield survey WF982 due to laboratory accidents (F02 Bottom and Surface, F23 Mid-bottom and Surface, and N10 Bottom (Rep2)). Additionally, during WN982, a minor shipboard ¹⁴C accident resulted in the loss of the productivity data from this survey. As a result of this accident, Battelle has decided to incubate on shore in the future.

During the farfield/nearfield survey in April (WF984), the dissolved inorganic nutrient (DIN) protocol was changed with regard to the type of filter used for processing. Glass fiber filters (GF/F) were changed to Nuclepore filters to prevent possible contamination of silicate. Also on April 1st, no triplicate QC samples for dissolved oxygen were collected at the first and last stations of the day.

Due to a last minute schedule shift for nearfield survey WN985, a qualified whale watcher was not on board during the survey. The Chief Scientist and Captain of the vessel tried to maintain overlapping watches but mammals may be under-reported for this survey. Even though a whale watcher was not on board, the Captain conducted vessel operations within all Massachusetts state and federal guidelines for the avoidance of collision with right whales.

During farfield/nearfield survey WF987, triplicate QC samples for dissolved oxygen were not collected at the first and last stations on the first two days. Respiration samples were collected at all of the appropriate locations but only the station F19 bottom and mid-depth samples remained at the appropriate temperature due to electrical power interruptions to the incubators. The F19 samples were the only samples analyzed.

On July 8th, four stations (N04, N15, N21, and N18) were sampled for nearfield survey WN988 prior to experiencing problems with the electrical cable to the CTD. Productivity samples were shipped to the University of Rhode Island laboratory for analysis. Due to the loss of electrical power for the sample storage freezer, the nutrient samples were compromised. Following discussions with MWRA and the Battelle Program Manager it was determined that the nutrient samples from the four stations sampled on July 8th would be analyzed to support the primary productivity. The data will be entered into the database and flagged as appropriate to separate it from the standard data reductions and procedures. It was also determined that the zooplankton samples from July 8th, would be archived in case analysis was determined to be necessary. In consultation with MWRA scientists, it was determined that all four stations would be revisited on July 13th and that samples would be collected for the designated nutrient, phytoplankton, zooplankton, and respiration parameters. Thus, the data

for productivity are not synoptic with the nutrient, phytoplankton, and respiration data. This should not adversely effect the interpretation of the various data sets.

Table 2-2. Nearfield Water Column Sampling Plan (3 Pages)

Nearfield Water Column Sampling Plan																								
StationID	Depth (m)	Station Type	Depths	Total Volume at Depth (L)	Number of 9-L GoFios	Dissolved Inorganic Nutrients	Dissolved Organic Carbon	Total Dissolved Nitrogen and Phosphorus	Particulate Organic Carbon and Nitrogen	Particulate Phosphorus	Biogenic silica	Chlorophyll a	Total Suspended Solids	Dissolved Oxygen	Rapid Analysis Phytoplankton	Whole Water Phytoplankton	Screened Water Phytoplankton	Zooplankton	Urea	Respiration	Photosynthesis by carbon-14	Dissolved Inorganic Carbon		
			Protocol Code	IN	OC	NP	PC	PP	BS	CH	TS	DO	RP	WW	SW	ZO	UR	RE	AP	IC				
			Volume (L)	1	0.1	0.1	1	0.6	0.3	0.5	1	1	4	1	4	1	0.1	1	1	1				
N01	30	A	1_Bottom	8.5	2	1	1	1	2	2	2	1	2	1										
			2_Mid-Bottom	2.5	1	1						1		1										
			3_Mid-Depth	10	2	2	1	1	2	2	2	2	2	1										
			4_Mid-Surface	2.5	1	1						1		1										
			5_Surface	8.5	2	1	1	1	2	2	2	1	2	1										
N02	40	E	1_Bottom	1	1	1																		
			2_Mid-Bottom	1	1	1																		
			3_Mid-Depth	1	1	1																		
			4_Mid-Surface	1	1	1																		
			5_Surface	1	1	1																		
N03	44	E	1_Bottom	1	1	1																		
			2_Mid-Bottom	1	1	1																		
			3_Mid-Depth	1	1	1																		
			4_Mid-Surface	1	1	1																		
			5_Surface	1	1	1																		
N04	50	D+	1_Bottom	15.5	2	1	1	1	2	2	2	1	2							6	1	1		
			2_Mid-Bottom	4.5	1	1						1		1								1	1	
			3_Mid-Depth	22.1	2	2	1	1	2	2	2	2	2			1	1			1	6	1	1	
		R+	4_Mid-Surface	4.5	1	1						1		1								1	1	
			P	5_Surface	20.6	2	1	1	1	2	2	2	1	2			1	1			1	6	1	1
					6_Net Tow														1					
N05	55	E	1_Bottom	1	1	1																		
			2_Mid-Bottom	1	1	1																		
			3_Mid-Depth	1	1	1																		
			4_Mid-Surface	1	1	1																		
			5_Surface	1	1	1																		
N06	52	E	1_Bottom	1	1	1																		
			2_Mid-Bottom	1	1	1																		
			3_Mid-Depth	1	1	1																		
			4_Mid-Surface	1	1	1																		
			5_Surface	1	1	1																		
N07	52	A	1_Bottom	10.5	2	1	1	1	2	2	2	1	2	3										
			2_Mid-Bottom	2.5	1	1						1		1										
			3_Mid-Depth	10	2	2	1	1	2	2	2	2	2	1										
			4_Mid-Surface	2.5	1	1						1		1										
			5_Surface	10.5	2	1	1	1	2	2	2	1	2	3										
N08	35	E	1_Bottom	1	1	1																		
			2_Mid-Bottom	1	1	1																		
			3_Mid-Depth	1	1	1																		
			4_Mid-Surface	1	1	1																		
			5_Surface	1	1	1																		

Nearfield Water Column Sampling Plan																										
StationID	Depth (m)	Station Type	Depths	Total Volume at Depth (L)	Number of 9-L GoFios	Dissolved Inorganic Nutrients	Dissolved Organic Carbon	Total Dissolved Nitrogen and Phosphorus	Particulate Organic Carbon and Nitrogen	Particulate Phosphorus	Biogenic silica	Chlorophyll a	Total Suspended Solids	Dissolved Oxygen	Rapid Analysis Phytoplankton	Whole Water Phytoplankton	Screened Water Phytoplankton	Zooplankton	Urea	Respiration	Photosynthesis by carbon-14	Dissolved Inorganic Carbon				
						IN	OC	NP	PC	PP	BS	CH	TS	DO	RP	WW	SW	ZO	UR	RE	AP	IC				
			Protocol Code																							
N09	32	E	1_Bottom	1	1	1																				
			2_Mid-Bottom	1	1	1																				
			3_Mid-Depth	1	1	1																				
			4_Mid-Surface	1	1	1																				
			5_Surface	1	1	1																				
N10	25	A	1_Bottom	8.5	2	1	1	1	2	2	2	1	2	1												
			2_Mid-Bottom	2.5	1	1								1	1											
			3_Mid-Depth	10	2	2	1	1	2	2	2	2	2	2	1											
			4_Mid-Surface	2.5	1	1								1	1											
			5_Surface	8.5	2	1	1	1	2	2	2	1	2	1												
N11	32	E	1_Bottom	1	1	1																				
			2_Mid-Bottom	1	1	1																				
			3_Mid-Depth	1	1	1																				
			4_Mid-Surface	1	1	1																				
			5_Surface	1	1	1																				
N12	26	E	1_Bottom	1	1	1																				
			2_Mid-Bottom	1	1	1																				
			3_Mid-Depth	1	1	1																				
			4_Mid-Surface	1	1	1																				
			5_Surface	1	1	1																				
N13	32	E	1_Bottom	1	1	1																				
			2_Mid-Bottom	1	1	1																				
			3_Mid-Depth	1	1	1																				
			4_Mid-Surface	1	1	1																				
			5_Surface	1	1	1																				
N14	34	E	1_Bottom	1	1	1																				
			2_Mid-Bottom	1	1	1																				
			3_Mid-Depth	1	1	1																				
			4_Mid-Surface	1	1	1																				
			5_Surface	1	1	1																				
N15	42	E	1_Bottom	1	1	1																				
			2_Mid-Bottom	1	1	1																				
			3_Mid-Depth	1	1	1																				
			4_Mid-Surface	1	1	1																				
			5_Surface	1	1	1																				
N16	40	A	1_Bottom	8.5	2	1	1	1	2	2	2	1	2	1												
			2_Mid-Bottom	2.5	1	1								1	1											
			3_Mid-Depth	10.2	2	2	2	2	2	2	2	2	2	2	1											
			4_Mid-Surface	2.5	1	1								1	1											
			5_Surface	8.5	2	1	1	1	2	2	2	1	2	1												
N17	36	E	1_Bottom	1	1	1																				
			2_Mid-Bottom	1	1	1																				
			3_Mid-Depth	1	1	1																				
			4_Mid-Surface	1	1	1																				
			5_Surface	1	1	1																				

Nearfield Water Column Sampling Plan																								
StationID	Depth (m)	Station Type	Depths	Total Volume at Depth (L)	Number of 9-L GoFios	Dissolved Inorganic Nutrients	Dissolved Organic Carbon	Total Dissolved Nitrogen and Phosphorus	Particulate Organic Carbon and Nitrogen	Particulate Phosphorus	Biogenic silica	Chlorophyll a	Total Suspended Solids	Dissolved Oxygen	Rapid Analysis Phytoplankton	Whole Water Phytoplankton	Screened Water Phytoplankton	Zooplankton	Urea	Respiration	Photosynthesis by carbon-14	Dissolved Inorganic Carbon		
			Protocol Code	IN	OC	NP	PC	PP	BS	CH	TS	DO	RP	WW	SW	ZO	UR	RE	AP	IC				
N18	30	R+	1_Bottom	15.5	2	1	1	1	2	2	2	1	2							6	1	1		
			D+ 2_Mid-Bottom	4.5	1	1						1		1								1	1	
			3_Mid-Depth	26.1	3	1	1	1	2	2	2	2	2		1	1	1			1	6	1	2	
			P 4_Mid-Surface	4.5	1	1							1		1								1	1
			5_Surface	20.6	2	1	1	1	2	2	2	1	2				1	1			1	6	1	1
			6_Net Tow																1					
N19	24	E	1_Bottom	1	1	1																		
			2_Mid-Bottom	1	1	1																		
			3_Mid-Depth	1	1	1																		
			4_Mid-Surface	1	1	1																		
			5_Surface	1	1	1																		
N20	32	A	1_Bottom	8.5	2	1	1	1	2	2	2	1	2	1										
			2_Mid-Bottom	2.5	1	1							1		1									
			3_Mid-Depth	10	2	2	1	1	2	2	2	2	2	2	1									
			4_Mid-Surface	2.5	1	1							1		1									
			5_Surface	8.5	2	1	1	1	2	2	2	1	2	1										
N21	34	E	1_Bottom	1	1	1																		
			2_Mid-Bottom	1	1	1																		
			3_Mid-Depth	1	1	1																		
			4_Mid-Surface	1	1	1																		
			5_Surface	1	1	1																		
Totals				111	22	22	42	42	42	42	42	33	1	4	4	2	4	36	10	11				
Blanks A							1	1	1	1	1													

Table 2-3. Farfield Water Column Sampling Plan (3 Pages)

Farfield Water Column Sampling Plan																								
StationID	Depth (m)	Station Type	Depths	Total Volume at Depth (L)	Number of 9-L GoFios	Dissolved Inorganic Nutrients	Dissolved Organic Carbon	Total Dissolved Nitrogen and Organic Carbon	Particulate Organic Carbon	Particulate Phosphorous	Biogenic silica	Chlorophyll a	Total Suspended Solids	Dissolved Oxygen	Secchi Disk Reading	Whole Water Phytoplankton	Screened Water Phytoplankton	Zooplankton	Urea	Respiration	Photosynthesis by carbon-14	Dissolved Inorganic Carbon		
				Protocol Code	IN	OC	NP	PC	PP	BS	CH	TS	DO	SE	WW	SW	ZO	UR	RE	AP	IC			
				Volume (L)	1	0.1	0.1	1	0.3	0.3	0.5	1	1	0	1	4	1	0.1	1	1	1			
F01	27	D	1 Bottom	7.9	2	1	1	1	2	2	2	1	2	3										
			2 Mid-Bottom	2.5	1	1							1	1										
			3 Mid-Depth	14	2	1	1	1	2	2	2	2	2	2	1		1	1		1				
			4 Mid-Surface	2.5	1	1							1	1										
			5 Surface	13	2	1	1	1	2	2	2	2	1	2	3	1	1	1		1				
			6 Net Tow																1					
F02	33	D	1 Bottom	7.9	2	1	1	1	2	2	2	1	2	1										
			2 Mid-Bottom	2.5	1	1							1	1										
			3 Mid-Depth	15	2	2	1	1	2	2	2	2	2	2	1		1	1		1				
			4 Mid-Surface	2.5	1	1							1	1										
			5 Surface	13	2	1	1	1	2	2	2	2	1	2	1	1	1	1		1				
			6 Net Tow																1					
F03	17	E	1 Bottom	1	1	1																		
			2 Mid-Bottom	1	1	1																		
			3 Mid-Depth	1	1	1																		
			4 Mid-Surface	1	1	1																		
			5 Surface	1	1	1										1								
F05	18	E	1 Bottom	1	1	1																		
			2 Mid-Bottom	1	1	1																		
			3 Mid-Depth	1	1	1																		
			4 Mid-Surface	1	1	1																		
			5 Surface	1	1	1										1								
F06	35	D	1 Bottom	7.9	2	1	1	1	2	2	2	1	2	3										
			2 Mid-Bottom	2.5	1	1							1	1										
			3 Mid-Depth	15	2	2	1	1	2	2	2	2	2	2	1		1	1		1				
			4 Mid-Surface	2.5	1	1							1	1										
			5 Surface	13	2	1	1	1	2	2	2	2	1	2	3	1	1	1		1				
			6 Net Tow																1					
F07	54	E	1 Bottom	1	1	1																		
			2 Mid-Bottom	1	1	1																		
			3 Mid-Depth	1	1	1																		
			4 Mid-Surface	1	1	1																		
			5 Surface	1	1	1										1								
F10	30	E	1 Bottom	1	1	1																		
			2 Mid-Bottom	1	1	1																		
			3 Mid-Depth	1	1	1																		
			4 Mid-Surface	1	1	1																		
			5 Surface	1	1	1										1								
F12	90	F	1 Bottom	4	1	1								1										
			2 Mid-Bottom	2	1	1									1									
			3 Mid-Depth	2	1	1									1									
			4 Mid-Surface	2	1	1									1									
			5 Surface	4	1	1									1	1								
F13	25	D	1 Bottom	7.9	2	1	1	1	2	2	2	1	2	1										
			2 Mid-Bottom	2.5	1	1							1	1										
			3 Mid-Depth	15	2	2	1	1	2	2	2	2	2	2	1		1	1		1				
			4 Mid-Surface	2.5	1	1							1	1										
			5 Surface	13	2	1	1	1	2	2	2	2	1	2	1	1	1	1		1				

Farfield Water Column Sampling Plan																						
StationID	Depth (m)	Station Type	Depths	Total Volume at Depth (L)	Number of 9-L GoFios	Dissolved Inorganic Nutrients	Dissolved Organic Carbon	Total Dissolved Nitrogen and Particulate Organic Carbon	Particulate Phosphorus	Biogenic silica	Chlorophyll a	Total Suspended Solids	Dissolved Oxygen	Secchi Disk Reading	Whole Water Phytoplankton	Screened Water Phytoplankton	Zooplankton	Urea	Respiration	Photosynthesis by carbon-14	Dissolved Inorganic Carbon	
			Protocol Code	IN	OC	NP	PC	PP	BS	CH	TS	DO	SE	WW	SW	ZO	UR	RE	AP	IC		
			6 Net Tow														1					
			1 Bottom	1	1	1																
			2 Mid-Bottom	1	1	1																
F14	20	E	3 Mid-Depth	1	1	1																
			4 Mid-Surface	1	1	1																
			5 Surface	1	1	1							1									
			1 Bottom	1	1	1																
			2 Mid-Bottom	1	1	1																
F15	39	E	3 Mid-Depth	1	1	1																
			4 Mid-Surface	1	1	1																
			5 Surface	1	1	1							1									
			1 Bottom	1	1	1																
			2 Mid-Bottom	1	1	1																
F16	60	E	3 Mid-Depth	1	1	1																
			4 Mid-Surface	1	1	1																
			5 Surface	1	1	1							1									
			1 Bottom	1	1	1																
			2 Mid-Bottom	1	1	1																
F17	78	E	3 Mid-Depth	1	1	1																
			4 Mid-Surface	1	1	1																
			5 Surface	1	1	1							1									
			1 Bottom	1	1	1																
			2 Mid-Bottom	1	1	1																
F18	24	E	3 Mid-Depth	1	1	1																
			4 Mid-Surface	1	1	1																
			5 Surface	1	1	1							1									
			1 Bottom	7	2	1														6		
			2 Mid-Bottom	2	1	1						1										
F19	81	F+R	3 Mid-Depth	7	2	1														6		
			4 Mid-Surface	2	1	1						1								6		
			5 Surface	7	2	1							1							6		
			1 Bottom	1	1	1																
			2 Mid-Bottom	1	1	1																
F22	80	E	3 Mid-Depth	1	1	1																
			4 Mid-Surface	1	1	1																
			5 Surface	1	1	1							1									
			1 Bottom	18	3	1	1	1	2	2	2	1	2							6	1	1
			2 Mid-Bottom	8.5	1	1					1	1									1	2
F23	25	D+R+P	3 Mid-Depth	24	3	1	1	1	2	2	2	2			1	1				1	6	1
			4 Mid-Surface	7.5	1	1					1										1	1
			5 Surface	23	3	1	1	1	2	2	2	1	2		1	1	1			1	6	1
			6 Net Tow																			
			1 Bottom	7.9	2	1	1	1	2	2	2	1	2	3								
			2 Mid-Bottom	2.5	1	1					1		1									
F24	20	D	3 Mid-Depth	14	2	1	1	1	2	2	2	2	1		1	1				1		
			4 Mid-Surface	2.5	1	1					1		1									
			5 Surface	13	2	1	1	1	2	2	2	1	2	3	1	1	1				1	
			6 Net Tow																			
			1 Bottom	9.9	2	1	1	1	2	2	2	1	2	1								
			2 Mid-Bottom	2.5	1	1					1		1									
F25	15	D	3 Mid-Depth	15	2	2	1	1	2	2	2	2	1		1	1				1		
			4 Mid-Surface	2.5	1	1					1		1									
			5 Surface	15	2	1	1	1	2	2	2	1	2	3	1	1	1					

Farfield Water Column Sampling Plan																						
StationID	Depth (m)	Station Type	Depths	Total Volume at Depth (L)	Number of 9-L GoFios	Dissolved Inorganic Nutrients	Dissolved Organic Carbon	Total Dissolved Nitrogen and Organic Carbon	Particulate Organic Carbon	Particulate Phosphorous	Biogenic silica	Chlorophyll a	Total Suspended Solids	Dissolved Oxygen	Secchi Disk Reading	Whole Water Phytoplankton	Screened Water Phytoplankton	Zooplankton	Urea	Respiration	Photosynthesis by carbon-14	Dissolved Inorganic Carbon
						IN	OC	NP	PC	PP	BS	CH	TS	DO	SE	WW	SW	ZO	UR	RE	AP	IC
			6_Net Tow															1				
			1_Bottom	1	1	1																
			2_Mid-Bottom	1	1	1																
F26	56	E	3_Mid-Depth	1	1	1																
			4_Mid-Surface	1	1	1																
			5_Surface	1	1	1									1							
			1_Bottom	7.9	2	1	1	1	2	2	2	1	2	1								
			2_Mid-Bottom	2.5	1	1						1		1								
F27	08	D	3_Mid-Depth	15	2	2	1	1	2	2	2	2	2	1		1	1		1			
			4_Mid-Surface	2.5	1	1						1		1								
			5_Surface	13	2	1	1	1	2	2	2	1	2	1	1	1	1		1			
			6_Net Tow															1				
			1_Bottom	1	1	1																
			2_Mid-Bottom	1	1	1																
F28	33	E	3_Mid-Depth	1	1	1																
			4_Mid-Surface	1	1	1																
			5_Surface	1	1	1									1							
			1_Bottom	2	1	1								1								
			2_Mid-Bottom	2	1	1								1								
F29	66	F	3_Mid-Depth	2	1	1								1								
			4_Mid-Surface	2	1	1								1								
			5_Surface	2	1	1								1	1							
			1_Bottom	9.9	2	1	1	1	2	2	2	1	2	3								
			3_Mid-Depth	14	2	1	1	1	2	2	2	2	2	1		1	1		1			
F30	15	G	5_Surface	15	2	1	1	1	2	2	2	1	2	3	1	1	1		1			
			6_Net Tow															1				
			1_Bottom	9.9	2	1	1	1	2	2	2	1	2	3								
			3_Mid-Depth	14	2	1	1	1	2	2	2	2	2	1		1	1		1			
F31	15	G	5_Surface	15	2	1	1	1	2	2	2	1	2	3	1	1	1		1			
			6_Net Tow															1				
F32	30	Z	5_Surface												1							
			6_Net Tow															1				
F33	30	Z	5_Surface												1							
			6_Net Tow															1				
			1_Bottom	8.1	2	1	2	2	2	2	2	1	2	1								
			2_Mid-Bottom	2.5	1	1						1		1								
N16	40	D	3_Mid-Depth	15	2	2	2	2	2	2	2	2	2	1		1	1		1			
			4_Mid-Surface	2.5	1	1						1		1								
			5_Surface	13	2	1	1	1	2	2	2	1	2	1	1	1	1		1			
			6_Net Tow															1				
					totals	132	35	35	66	66	66	62	66	76	28	22	22	13	22	36	5	6
			Blanks B						1	1	1	1	1									
			Blanks C						1	1	1	1	1									
			Blanks D						1	1	1	1	1									

3.0 DATA SUMMARY PRESENTATION

Data from each survey were compiled from the final HOM Program 1998 database and organized to facilitate regional comparisons between surveys, and to allow a quick evaluation of results for evaluating monitoring thresholds (Table 3-1 Method Detection Limits, Survey Data Tables 3-2 through 3-10). Each table provides summary data from one survey. A discussion of which parameters were selected, how the data were grouped and integrated, and the assumptions behind the calculation of statistical values (average, minimum, and maximum), is provided below. Individual data summarized in this report are available from MWRA either in hard copy or electronic format.

The spatial pattern of data summary follows the sample design over major geographic areas of interest in Massachusetts Bay, Cape Cod Bay, and Boston Harbor (Section 3.1). Compilation of data both horizontally by region and vertically over the entire water column was conducted to provide an efficient way of assessing the status of the regions during a particular survey. Maximum and minimum values are provided because of the need to assess extremes of pre-outfall conditions relative to criteria being developed for contingency planning purposes (MWRA, 1997).

Regional compilations of nutrient and biological water column data were conducted first by averaging individual laboratory replicates, followed by field duplicates, and then by station visit within a survey. Prior to regional compilation of the sensor data, the results were averaged by station visit. Significant figures for average values were selected based on precision of the specific data set. Detailed considerations for individual data sets are provided in the sections below.

3.1 Defined Geographic Areas

The primary partitioning of data is between the nearfield and farfield stations (Figures 1-1 and 1-2). Farfield data were additionally segmented into five geographic areas: stations in Boston Harbor (F23, F30, and F31), coastal stations (F05, F13, F14, F18, F24, F25), offshore stations (F06, F07, F10, F15, F16, F17, F19, and F22), boundary region stations (F12, F26, F27, F28, F29), and Cape Cod Bay stations (F01, F02, and F03; and F32 and F33 as appropriate). These regions are shown in Figure 1-2.

The data summary tables include data derived from all of the station data collected in each region. Average, maximum, and minimum values are reported from the cumulative horizontal and vertical dataset as described for each data type below.

3.2 Sensor Data

Six CTD profile parameters provided in the data summary tables include: temperature, salinity, density (σ_t), fluorescence (chlorophyll a), transmissivity, and dissolved oxygen (DO) concentration. Statistical parameters (maximum, minimum, and average) were calculated from the upcast sensor readings collected at five depths through the water column (defined as A-E). The five depth values, rather than the entire set of profile data, were selected to reduce the statistical weighting of deep water data at the offshore and boundary stations. Generally, the samples were collected in an even depth-distributed pattern. The mid-depth sample (C) was typically located at the subsurface fluorescence (chlorophyll) peak in the water column, depending on the relative depth of the chlorophyll maximum. Details of the collection, calibration, and processing of CTD data are available in the Water Column Monitoring CW/QAPP (Albro *et al.*, 1998), and are summarized in Section 2.

Following standard oceanographic practice, patterns of variability in water density are described using the derived parameter sigma-t (σ_t), which is calculated by subtracting 1,000 kg/m³ from the

recorded density. During this semi-annual period, density varied from 1016.3 to 1027.4, meaning σ_t varied from 16.3 to 27.4.

Fluorescence data were calibrated using concomitant extracted chlorophyll *a* data from discrete water samples collected at a subset of the stations (see CW/QAPP or Tables 2-1, 2-2, 2-3). The calibrated fluorescence sensor values were used for all discussions of chlorophyll in this report. The concentrations of phaeopigments are included in the summary data tables as part of the nutrient parameters.

In addition to DO concentration, the derived percent saturation was also provided. Percent saturation was calculated prior to averaging station visits from the potential saturation value of the water (a function of the physical properties of the water) and the calibrated DO concentration (see CW/QAPP).

Finally, the derived beam attenuation coefficient from the transmissometer (“transmittance”) was provided on the summary tables. Beam attenuation is calculated from the natural logarithm of the ratio of light transmission relative to the initial light incidence, over the transmissometer path length, and is provided in units of m^{-1} .

3.3 Nutrients

Analytical results for dissolved and particulate nutrient concentrations were extracted from the HOM database, and include: ammonia (NH_4), nitrite (NO_2), nitrate + nitrite (NO_3+NO_2), phosphate (PO_4), silicate (SiO_4), biogenic silica (BSI), dissolved and particulate organic carbon (DOC and POC), total dissolved and particulate organic nitrogen (TDN and PON), total dissolved and particulate phosphorous (TDP and PP), and urea. Total suspended solids (TSS) data are provided as a baseline for total particulate matter in the water column. Dissolved inorganic nutrients (NH_4 , NO_2 , NO_3+NO_2 , PO_4 , and SiO_4) were measured from water samples collected from each of the five (A-E) depths during CTD casts. The dissolved organic and particulate constituents were measured from water samples collected from the surface (A), mid-depth (C), and bottom (E) sampling depths (see Tables 2-1, 2-2, and 2-3 for specific sampling depths and stations).

3.4 Biological Water Column Parameters

Four productivity parameters have been presented in the data summary tables. Areal production, which is determined by integrating the measured productivity over the photic zone, and chlorophyll-specific areal production is included for the productivity stations (F23 representing the harbor, and N04 and N18, representing the nearfield). Because areal production is already depth-integrated, averages were calculated only among productivity stations for the two regions sampled. The derived parameters α ($gC[gChla]^{-1}h^{-1}[\mu Em^{-2}s^{-1}]^{-1}$) and P_{max} ($gC[gChla]^{-1}h^{-1}$) are also included. The productivity parameters are discussed in detail in Appendix A.

Respiration rates were averaged over the respiration stations (the same harbor and nearfield stations as productivity, and additionally one offshore station [F19]), and over the three water column depths sampled (surface, mid- and bottom). The respiration samples were collected concurrently with the productivity samples. Detailed methods of sample collection, processing, and analysis are available in the CW/QAPP (Albro *et al.*, 1998).

3.5 Plankton

Plankton results were extracted from the HOM database and include whole water phytoplankton, screened phytoplankton, and zooplankton. Phytoplankton samples were collected for whole-water and screened measurements during the water column CTD casts at the surface (A) and mid-depth (C) sampling events. As discussed in Section 2.1, when a subsurface chlorophyll maximum is observed, the mid-depth sampling event is associated with this layer. The screened phytoplankton samples were filtered through 20- μm Nitrex mesh to retain and concentrate larger dinoflagellate species.

Zooplankton samples were collected by oblique tows using a 102- μm mesh at all plankton stations. Detailed methods of sample collection, processing, and analysis are available in the CW/QAPP (Albro *et al.*, 1998).

Final plankton values were derived from each station by first averaging analytical replicates, then averaging station visits. Regional results were summarized for total phytoplankton, total centric diatoms, nuisance algae (*Alexandrium tamarense*, *Phaeocystis pouchetii*, and *Pseudo-nitzschia pungens*), and total zooplankton (Tables 3-2 through 3-10).

Results for total phytoplankton and centric diatoms reported in Tables 3-1 through 3-10 are restricted to whole water surface samples. Results of the nuisance species *Phaeocystis pouchetii* and *Pseudo-nitzschia pungens* include the maximum of both whole water and screened analyses, at both the surface and mid-depth. Although the size and shape of both taxa might allow them to pass through the Nitex screen, both have colonial forms that in low densities might be overlooked in the whole-water samples. For *Alexandrium tamarense*, only the screened samples were reported.

3.6 Additional Data

Two additional data sources were utilized during interpretation of HOM Program semi-annual water column data. Temperature and chlorophyll a satellite images collected near survey dates were preliminarily interpreted for evidence of surface water events, including intrusions of surface water masses from the Gulf of Maine and upwelling (Appendix I). U.S. Geological Service continuous monitoring data, collected from a mooring located between nearfield stations N21 and N18 (Figure 1-1). Hourly temperature and salinity data from the mid-depth (~20 m below surface) and near-bottom (1 m above bottom) are plotted in Figure 3-1. Chlorophyll a data from the USGS Wetlab sensor from the mid-depth (~20 m below surface) are plotted in Figure 3-2.

Table 3-1 Method Detection Limits

Analysis	MDL
Dissolved ammonia (NH ₄)	0.02 µM
Dissolved inorganic nitrate (NO ₃)	0.01 µM
Dissolved inorganic nitrite (NO ₂)	0.01 µM
Dissolved inorganic phosphorus (PO ₄)	0.01 µM
Dissolved inorganic silicate (SiO ₄)	0.02 µM
Dissolved organic carbon (DOC)	20 µM
Total dissolved nitrogen (TDN)	1.43 µM
Total dissolved phosphorus (TDP)	0.04 µM
Particulate carbon (POC)	5.27 µM
Particulate nitrogen (PON)	0.75 µM
Particulate phosphorus (PARTP)	0.04 µM
Biogenic silica (BIOSI)	0.32 µM
Urea	0.2 µM
Chlorophyll <i>a</i> and phaeophytin (EDL)	0.036 µg L ⁻¹
Total suspended solids (TSS)	0.1 mg L ⁻¹

Table 3-2. Combined Farfield/Nearfield Survey WF981 (Feb 98) Data Summary

Region Parameter	Unit	Boundary			Cape Cod Bay			Farfield			Coastal		
		Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg
In Situ													
Temperature	C	3.41	5.44	4.41	3.05	3.94	3.46	2.87	3.61	3.23			
Salinity	PSU	30.8	32.5	32.1	31.5	32.0	31.8	31.0	31.9	31.6			
Sigma_T		24.5	25.7	25.4	25.1	25.4	25.3	24.7	25.4	25.1			
Beam Attenuation	m-1	0.57	1.35	0.85	0.83	2.72	1.58	1.58	3.90	2.66			
DO Concentration	mg L-1	9.31	11.36	10.11	10.51	11.87	11.25	10.69	11.74	11.25			
DO Saturation	PCT	91.4	104.8	96.4	99.2	109.9	104.5	99.4	109.6	103.9			
Fluorescence	ug L-1	NA	NA	NA	NA	NA	NA	NA	NA	NA			
Chlorophyll a	ug L-1	0.15	1.05	0.59	0.20	1.29	0.64	0.10	1.75	0.58			
Phaeocigment	ug L-1	0.07	0.53	0.25	0.09	0.65	0.41	0.22	1.44	0.73			
Nutrients													
NH4	uM	0.11	1.28	0.48	1.19	2.34	1.71	0.48	6.70	2.67			
NO2	uM	0.10	0.22	0.16	0.01	0.24	0.16	0.15	0.36	0.22			
NO2+NO3	uM	6.38	9.03	7.90	0.48	9.26	6.78	7.16	10.49	8.70			
PO4	uM	0.71	0.90	0.83	0.09	0.91	0.79	0.72	0.98	0.87			
SiO4	uM	5.89	14.02	9.96	0.61	11.52	8.65	9.85	14.27	11.61			
BIOSI	uM	0.50	1.50	1.00	1.50	2.80	2.12	2.50	6.10	4.64			
DOC	uM	102.0	125.3	113.7	119.5	182.4	142.0	114.7	142.4	126.1			
PARTP	uM	0.05	0.10	0.07	0.11	0.34	0.19	0.14	0.41	0.31			
POC	uM	3.61	9.92	6.09	8.92	18.92	13.21	14.50	25.50	20.03			
PON	uM	0.09	0.76	0.33	1.74	2.84	2.29	1.61	2.75	2.23			
TDN	uM	15.7	16.2	16.0	13.6	39.1	22.1	20.5	31.4	24.0			
TDP	uM	0.99	1.04	1.02	0.94	1.15	1.06	1.01	1.30	1.16			
TSS	ug L-1	NA	NA	NA	NA	NA	NA	NA	NA	NA			
Urea	uM	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.90	0.57			
Productivity													
Alpha	ALPHA												
Pmax	mgCm-3h-1												
Areal Production	mgCm-2d-1												
Chlorophyll Specific Areal Production	mgC(mg Chla)-1m-2d-1												
Respiration	uM hr-1												
Plankton													
Total Phytoplankton	E6CELLS L-1	0.173	0.374		0.321	0.887		0.329	0.674				
Centric diatoms	E6CELLS L-1	0.008	0.027		0.011	0.516		0.034	0.049				
<i>Alexandrium tamarense</i>	CELLS L-1	ND	ND		ND	ND		ND	ND				
<i>Phaeocystis pouchetii</i>	CELLS L-1	ND	ND		ND	ND		ND	ND				
<i>Psuedonitzschia pungens</i>	E6CELLS L-1	ND	ND		0.001	0.001		ND	ND				
Total Zooplankton	ind m-3	9930.5	9930.5		12043.6	56202.3		6308.8	8322.1				

NA - Data not available due to sample loss
 ND - Not detected in the sample

Table 3-2. Combined Farfield/Nearfield Survey WF981 (Feb 98) Data Summary (continued)

Region Parameter	Unit	Harbor			Offshore			Nearfield		
		Min	Max	Avg	Min	Max	Avg	Min	Max	Avg
In Situ										
Temperature	C	2.66	4.06	2.94	3.43	4.87	4.15	2.99	4.66	3.51
Salinity	PSU	30.4	31.5	31.0	31.6	32.4	32.1	31.3	32.3	31.8
Sigma-T		24.3	25.1	24.7	25.1	25.6	25.5	25.0	25.6	25.3
Beam Attenuation	m-1	1.73	4.21	3.36	0.69	1.99	0.96	0.87	2.81	1.39
DO Concentration	mg L-1	9.33	11.28	10.63	10.04	11.90	10.91	6.95	11.75	10.75
DO Saturation	PCT	87.9	102.7	97.1	96.9	111.3	103.4	66.2	109.2	100.1
Fluorescence	ug L-1	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorophyll a	ug L-1	0.13	0.96	0.56	0.01	0.98	0.33	0.01	1.41	0.50
Phaeopigment	ug L-1	0.06	1.53	0.95	0.02	3.50	0.28	0.02	0.80	0.35
Nutrients										
NH4	uM	8.14	13.66	10.93	0.15	1.04	0.52	0.15	6.08	0.88
NO2	uM	0.31	0.54	0.42	0.14	0.20	0.17	0.01	0.35	0.18
NO2+NO3	uM	9.88	13.81	10.92	6.68	8.02	7.71	7.22	10.15	8.20
PO4	uM	0.98	1.28	1.11	0.74	0.92	0.86	0.69	1.07	0.81
SIO4	uM	13.68	24.63	16.36	8.56	11.35	9.79	8.57	25.74	10.40
BIOS1	uM	1.90	6.50	4.47	1.10	1.40	1.23	0.40	3.60	2.04
DOC	uM	117.6	208.5	153.8	114.1	118.7	116.4	97.6	153.4	122.3
PARTP	uM	0.26	0.60	0.44	0.05	0.08	0.07	0.05	0.72	0.15
POC	uM	14.33	47.67	32.78	7.48	10.83	8.67	3.33	22.42	11.68
PON	uM	1.91	5.13	3.79	1.66	2.22	2.01	0.21	2.89	1.58
TDN	uM	29.5	40.2	34.4	17.1	17.1	17.1	15.5	24.6	18.1
TDP	uM	1.30	1.74	1.51	1.01	1.01	1.01	0.97	1.19	1.06
TSS	ug L-1	NA	NA	NA	NA	NA	NA	NA	NA	NA
Urea	uM	0.40	1.10	0.77	0.10	0.30	0.20	0.40	0.80	0.62
Productivity										
Alpha	ALPHA	0.02	0.05	0.03				0.01	0.04	0.02
Pmax	mg Cm-3h-1	1.49	1.98	1.74				0.85	1.51	1.18
Areal Production	mg Cm-2d-1	107.3	107.3	107.3				181.5	228.1	204.8
Chlorophyll Specific Areal Production	mgC(mg Chla)-1m-2d-1	201.8	201.8	201.8				478.4	508.1	493.3
Respiration	uM hr-1	0.06	0.24	0.12				0.04	0.04	0.04
Plankton										
Total Phytoplankton	E6CELLS L-1	0.313	0.651		0.177	0.203		0.055	0.579	
Centric diatoms	E6CELLS L-1	0.024	0.075		0.022	0.025		0.003	0.037	
<i>Alexandrium tamarense</i>	CELLS L-1	ND	ND		ND	ND		ND	ND	
<i>Phaeocystis pouchetii</i>	CELLS L-1	ND	ND		ND	ND		ND	ND	
<i>Pseudo-nitzschia pungens</i>	E6CELLS L-1	0.001	0.001		ND	ND		ND	ND	
Total Zooplankton	ind m-3	1169.9	17223.5		12921.3	12921.3		3018.9	12901.1	

NA - Data not available due to sample loss
 ND - Not detected in the sample

Table 3-3. Combined Farfield/Nearfield Survey WF982 (Feb 98) Data Summary

Region Parameter	Unit	Farfield																
		Boundary				Cape Cod Bay				Coastal								
		Min	Max	Avg		Min	Max	Avg		Min	Max	Avg						
In Situ																		
Temperature	C	3.32	4.07	3.66		3.49	4.69	3.89		3.40	4.55	3.77						
Salinity	PSU	30.4	32.1	31.6		30.7	31.6	31.1		29.9	31.3	30.7						
Sigma-T	σ-t	24.1	25.5	25.1		24.3	25.1	24.7		23.7	24.9	24.4						
Beam Attenuation	m ⁻¹	0.76	1.85	1.08		0.90	1.84	1.54		0.91	1.92	1.45						
DO Concentration	mg L ⁻¹	9.72	12.37	10.97		9.74	12.15	11.16		10.36	11.90	11.38						
DO Saturation	PCT	91.6	111.3	99.5		91.1	109.3	102.0		96.2	110.9	105.9						
Fluorescence	ug L ⁻¹	0.03	3.62	0.60		0.11	5.48	2.64		0.05	1.72	0.53						
Chlorophyll a	ug L ⁻¹	0.07	1.88	0.53		0.07	3.40	1.33		0.01	0.89	0.38						
Phaeopigment	ug L ⁻¹	0.09	0.27	0.17		0.10	0.99	0.31		0.07	0.68	0.30						
Nutrients																		
NH4	uM	0.51	1.58	0.82		0.70	2.22	1.41		0.54	6.45	2.44						
NO2	uM	0.09	0.20	0.15		0.03	0.22	0.13		0.01	0.32	0.17						
NO2+NO3	uM	3.44	7.50	5.30		0.46	5.66	3.83		0.36	9.09	5.04						
PO4	uM	0.36	0.77	0.54		0.06	0.58	0.38		0.10	0.98	0.56						
SiO4	uM	3.17	8.06	5.30		0.47	23.15	5.84		0.65	11.46	5.91						
BIOSI	uM	0.80	0.80	0.80		0.70	3.70	2.67		0.10	3.10	1.19						
DOC	uM	113.7	204.2	148.7		129.5	331.6	187.6		125.1	162.8	143.1						
PARTP	uM	0.08	0.16	0.12		0.08	0.27	0.20		0.01	0.28	0.17						
POC	uM	18.50	42.25	34.25		11.25	58.58	29.61		16.83	45.50	29.08						
PON	uM	2.29	3.37	2.78		0.79	7.36	3.64		2.57	4.54	3.57						
TDN	uM	14.8	15.4	15.1		17.1	23	19.9		16.5	24.3	20.8						
TDP	uM	0.77	0.91	0.85		0.84	0.96	0.91		0.82	1.03	0.91						
TSS	ug L ⁻¹	NA	NA	NA		NA	NA	NA		NA	NA	NA						
Urea	uM	0.50	0.90	0.70		0.10	1.00	0.58		0.50	2.20	1.02						
Productivity																		
Alpha	ALPHA																	
Pmax	mgCm ⁻³ h ⁻¹																	
Areal Production	mgCm ⁻² d ⁻¹																	
Chlorophyll Specific Areal Production	mgC(mg Chla) ⁻¹ m ⁻² d ⁻¹																	
Respiration	uM hr ⁻¹																	
Plankton																		
Total Phytoplankton	E6CELLS L ⁻¹	0.30	0.34			0.82	1.27			0.37	0.55							
Centric diatoms	E6CELLS L ⁻¹	0.02	0.02			0.31	0.68			0.02	0.05							
<i>Alexandrium tamarense</i>	CELLS L ⁻¹	ND	ND			ND	ND			ND	ND							
<i>Phaeocystis pouchetii</i>	CELLS L ⁻¹	ND	ND			ND	ND			ND	ND							
<i>Pseudo-nitzschia pungens</i>	E6CELLS L ⁻¹	0.0005	0.0005			0.002	0.002			ND	ND							
Total Zooplankton	ind m ⁻³	28957.0	28957.0			14871.1	29158.9			6466.7	35230.5							

NA - Data not available due to sample loss
 ND - Not detected in the sample

Table 3-3. Combined Farfield/Nearfield Survey WF982 (Feb 98) Data Summary (continued)

Region Parameter	Unit	Harbor			Offshore			Nearfield		
		Min	Max	Avg	Min	Max	Avg	Min	Max	Avg
In Situ										
Temperature	C	3.91	4.28	4.11	3.36	4.19	3.77	3.45	4.03	3.74
Salinity	PSU	28.44	29.67	29.2	30.9	32.11	31.6	23.1	31.9	31.3
Sigma_T		22.55	23.55	23.2	24.5	25.48	25.1	18.4	25.4	24.9
Beam Attenuation	m ⁻¹	2.14	2.33	2.24	0.65	1.21	0.82	0.67	1.83	0.90
DO Concentration	mg L ⁻¹	10.45	11.94	11.16	8.43	12.70	10.90	9.41	12.36	10.75
DO Saturation	PCT	97.19	110.71	103.7	78.4	118.61	102.1	88.2	114.5	100.4
Fluorescence	ug L ⁻¹	0.71	1.12	0.94	0.00	0.93	0.31	0.00	0.83	0.31
Chlorophyll a	ug L ⁻¹	0.05	0.86	0.39	0.07	0.52	0.33	0.01	18.36	0.73
Phaeopigment	ug L ⁻¹	0.05	1.02	0.47	0.05	2.16	0.60	0.04	0.59	0.16
Nutrients										
NH4	uM	0.24	7.33	5.26	0.32	1.74	0.78	0.24	3.76	1.03
NO2	uM	0.03	0.38	0.29	0.04	0.16	0.12	0.03	0.21	0.12
NO2+NO3	uM	0.20	9.69	7.95	0.99	6.90	4.66	0.36	6.34	4.19
PO4	uM	0.09	0.77	0.60	0.15	0.80	0.55	0.09	0.69	0.52
SIO4	uM	0.35	14.29	11.03	0.67	8.46	4.37	1.31	13.51	5.16
BIOSt	uM	0.40	3.20	2.14	0.30	0.30	0.30	0.10	2.50	0.69
DOC	uM	136	161.7	149.2	109.9	148.3	125.3	103.5	152.3	126.3
PARTP	uM	0.25	0.38	0.32	0.09	0.11	0.10	0.06	0.20	0.09
POC	uM	28.17	36.92	32.66	11.75	13.00	12.22	4.80	23.00	12.98
PON	uM	3.46	5.29	4.49	2.20	2.92	2.52	1.49	3.65	2.29
TDN	uM	26.6	31.8	28.1	14.8	16.3	15.6	12.6	20.9	15.6
TDP	uM	0.62	1.20	1.04	0.85	0.90	0.87	0.77	0.92	0.84
TSS	ug L ⁻¹	NA	NA	NA	NA	NA	NA	NA	NA	NA
Urea	uM	0.70	2.20	1.18	0.20	0.70	0.45	0.30	0.60	0.47
Productivity										
Alpha	ALPHA	0.023	0.047	0.031				0.008	0.062	0.027
Pmax	mgCm ⁻³ h ⁻¹	1.55	2.03	1.83				0.90	1.55	1.21
Areal Production	mgCm ⁻² d ⁻¹	97.5	97.5	97.5				160.2	209.9	185.1
Chlorophyll Specific Areal Production	mgC(mg Chla)-lm=2d-1	147.9	147.9	147.9				NA	NA	NA
Respiration	uM hr ⁻¹	0.074	0.095	0.084	0.014	0.095	0.048	0.026	0.049	0.036
Plankton										
Total Phytoplankton	E6CELLS L-1	0.41	0.80		0.32	0.37		0.21	0.46	
Centric diatoms	E6CELLS L-1	0.03	0.05		0.02	0.02		0.01	0.04	
<i>Alexandrium tamarense</i>	CELLS L-1	ND	ND		ND	ND		ND	ND	
<i>Phaeocystis pouchetii</i>	CELLS L-1	ND	ND		ND	ND		ND	ND	
<i>Pseudo-nitzschia pungens</i>	E6CELLS L-1	ND	ND		0.0005	0.0006		0.002	0.003	
Total Zooplankton	ind m ⁻³	4792.3	8142.2		57186.07	57186.07		9229.5	33014.6	

NA - Data not available due to sample loss
 ND - Not detected in the sample

Table 3-4. Nearfield Survey WF983 (Mar 98) Data Summary

		Nearfield		
Region				
Parameter	Unit	Min	Max	Avg
In Situ				
Temperature	C	2.83	3.80	3.11
Salinity	PSU	29.3	31.7	30.5
Sigma_T		23.3	25.2	24.3
Beam Attenuation	m-1	0.82	2.51	1.28
DO Concentration	mg L-1	9.71	12.04	11.21
DO Saturation	PCT	90.1	109.6	102.5
Fluorescence	ug L-1	0.10	3.86	1.28
Chlorophyll a	ug L-1	0.02	1.89	0.52
Phaeopigment	ug L-1	0.08	1.14	0.34
Nutrients				
NH4	uM	0.32	6.64	1.50
NO2	uM	0.01	0.34	0.12
NO2+NO3	uM	0.41	11.61	3.79
PO4	uM	0.09	0.80	0.49
SIO4	uM	1.41	10.16	6.20
BIOSI	uM	0.90	35.80	3.49
DOC	uM	115.2	550.7	205.0
PARTP	uM	0.08	0.33	0.15
POC	uM	7.78	27.67	16.28
PON	uM	1.29	3.94	2.47
TDN	uM	15.9	34.5	22.9
TDP	uM	0.71	1.02	0.82
TSS	ug L-1	NA	NA	NA
Urea	uM	0.50	3.20	1.70
Productivity				
Alpha	ALPHA	0.005	0.098	0.040
Pmax	mgCm-3h-1	0.43	3.12	0.98
Areal Production	mgCm-2d-1	206.3	284.9	245.6
Chlorophyll Specific Areal Production	mgC(mg Chla)-1m-2d-1	563.9	563.9	563.9
Respiration	uM hr-1	0.028	0.031	0.030
Plankton				
Total Phytoplankton	E6CELLS L-1	0.41	0.61	
Centric diatoms	E6CELLS L-1	0.010	0.028	
<i>Alexandrium tamarense</i>	CELLS L-1	ND	ND	
<i>Phaeocystis pouchettii</i>	CELLS L-1	ND	ND	
<i>Psuedo-nitzschia pungens</i>	E6CELLS L-1	0.001	0.002	
Total Zooplankton	ind m-3	28709.1	30353.1	

NA - Data not available due to sample loss

ND - Not detected in the sample

Table 3-5. Combined Farfield/Nearfield Survey WF984 (Apr 98) Data Summary

Region Parameter	Unit	Boundary			Farfield			Coastal		
		Min	Max	Avg	Min	Max	Avg	Min	Max	Avg
In Situ										
Temperature	C	3.06	5.12	4.12	3.57	5.71	4.75	3.64	5.97	5.01
Salinity	PSU	30.5	31.7	31.0	23.8	31.1	30.3	29.9	30.8	30.3
Sigma _T		24.1	25.2	24.6	18.8	24.7	24.0	23.5	24.5	23.9
Beam Attenuation	m ⁻¹	0.70	1.21	0.84	0.84	3.43	1.32	0.85	1.84	1.43
DO Concentration	mg L ⁻¹	9.39	11.10	10.57	10.38	11.86	11.07	9.21	11.52	10.27
DO Saturation	PCT	88.0	106.8	99.5	96.4	113.4	105.3	89.4	108.8	98.3
Fluorescence	ug L ⁻¹	0.12	1.88	0.87	0.21	4.87	2.24	0.49	4.39	1.76
Chlorophyll a	ug L ⁻¹	0.50	2.54	1.55	0.44	5.73	2.62	0.63	4.15	2.15
Phaeopigment	ug L ⁻¹	0.55	1.51	1.10	0.32	3.71	1.91	0.46	2.65	1.57
Nutrients										
NH4	uM	0.61	3.98	1.15	0.32	2.36	0.79	0.83	6.32	2.68
NO2	uM	0.11	0.18	0.14	0.05	0.13	0.10	0.13	0.28	0.19
NO2+NO3	uM	2.49	6.07	4.42	0.60	5.55	2.96	3.92	5.96	5.10
PO4	uM	0.28	0.70	0.47	0.36	0.98	0.64	0.37	0.69	0.54
SIO4	uM	3.09	10.69	5.60	1.83	5.73	4.00	5.22	8.77	6.50
BIOSI	uM	0.10	0.90	0.57	0.70	3.20	2.13	1.20	2.60	1.69
DOC	uM	144.2	172.5	163.0	133.6	246.1	197.7	149.8	204.5	168.4
PARTP	uM	0.08	0.18	0.13	0.10	0.25	0.16	0.12	0.29	0.20
POC	uM	9.50	31.67	19.42	13.08	29.67	20.57	11.42	26.67	19.18
PON	uM	1.64	3.74	2.79	2.52	4.86	3.56	2.04	4.48	3.29
TDN	uM	16.4	26.2	21.0	16.2	38.9	24.2	20.3	28.0	23.9
TDP	uM	0.73	0.82	0.78	0.50	0.94	0.67	0.79	0.99	0.90
TSS	ug L ⁻¹	NA	NA	NA	NA	NA	NA	NA	NA	NA
Urea	uM	0.80	1.30	1.05	0.50	1.20	0.90	0.90	2.70	1.70
Productivity										
Alpha	ALPHA									
Pmax	mgCm ⁻³ h ⁻¹									
Areal Production	mgCm ⁻² d ⁻¹									
Chlorophyll Specific Areal Production	mgC(mg Chl _a) ⁻¹ m ⁻² d ⁻¹									
Respiration	uM hr ⁻¹									
Plankton										
Total Phytoplankton	E6CELLS L ⁻¹	0.53	0.72		0.56	2.51		0.45	0.97	
Centric diatoms	E6CELLS L ⁻¹	0.07	0.09		0.10	1.57		0.08	0.17	
<i>Alexandrium tamarense</i>	CELLS L ⁻¹	2.5	5.0		ND	ND		ND	ND	
<i>Phaeocystis pouchettii</i>	CELLS L ⁻¹	ND	ND		ND	ND		ND	ND	
<i>Pseudo-nitzschia pungens</i>	E6CELLS L ⁻¹	0.002	0.002		0.002	0.017		0.001	0.005	
Total Zooplankton	ind m ⁻³	27109.4	27109.4		13261.6	28397.5		16716.8	70954.9	

NA - Data not available due to sample loss

ND - Not detected in the sample

Table 3-5. Combined Farfield/Nearfield Survey WF984 (Apr 98) Data Summary (continued)

Region	Parameter	Unit	Harbor			Offshore			Nearfield		
			Min	Max	Avg	Min	Max	Avg	Min	Max	Avg
In Situ											
	Temperature	C	5.36	6.61	5.93	2.90	5.16	3.95	3.12	5.38	4.10
	Salinity	PSU	28.5	30.1	29.5	30.3	31.6	30.8	29.0	31.3	30.6
	Sigma _t		22.4	23.7	23.2	24.0	25.1	24.5	23.0	24.9	24.3
	Beam Attenuation	m ⁻¹	1.42	2.45	2.09	1.02	1.63	1.10	1.06	2.22	1.24
	DO Concentration	mg L ⁻¹	9.46	10.50	9.97	9.44	10.85	10.41	9.28	11.28	10.44
	DO Saturation	PCT	92.4	101.4	97.0	87.8	103.0	97.4	85.8	106.2	97.9
	Fluorescence	ug L ⁻¹	0.85	1.40	1.05	0.09	1.33	0.59	0.02	2.49	0.89
	Chlorophyll a	ug L ⁻¹	0.11	5.58	2.08	0.45	1.17	0.85	0.19	3.47	0.89
	Phaeopigment	ug L ⁻¹	0.23	7.87	2.11	0.47	0.80	0.62	0.20	2.66	0.78
Nutrients											
	NH4	uM	4.42	8.35	6.68	0.50	1.49	0.92	0.37	5.85	1.18
	NO2	uM	0.24	0.33	0.28	0.11	0.20	0.14	0.07	0.22	0.12
	NO2+NO3	uM	5.81	7.50	6.60	3.98	5.13	4.40	2.34	7.70	4.43
	PO4	uM	0.60	0.87	0.73	0.47	0.69	0.56	0.33	0.88	0.56
	SIO4	uM	8.07	12.24	9.51	4.37	10.19	5.67	3.20	11.60	6.25
	BIOSt	uM	2.00	4.10	2.90	0.60	1.20	0.83	0.20	2.00	0.73
	DOC	uM	141.7	240.5	192.0	119.7	206.6	173.4	112.8	402.7	197.8
	PARTP	uM	0.19	0.34	0.28	0.10	0.17	0.12	0.05	0.22	0.12
	POC	uM	21.17	37.00	27.07	7.11	16.50	11.18	5.32	21.42	13.19
	PON	uM	3.39	5.63	4.10	1.44	3.12	2.15	1.06	3.64	2.30
	TDN	uM	21.5	34.1	28.6	15.6	20.9	17.5	14.9	49.3	21.6
	TDP	uM	0.82	1.25	1.02	0.68	0.76	0.72	0.61	1.05	0.79
	TSS	ug L ⁻¹	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Urea	uM	1.10	4.00	1.80	1.30	1.60	1.45	1.10	1.80	1.43
Productivity											
	Alpha	ALPHA	0.015	0.022	0.018				0.004	0.018	0.010
	Pmax	mgCm ⁻³ h ⁻¹	2.34	2.94	2.64				0.32	1.40	0.85
	Areal Production	mgCm-2d-1	126.4	126.4	126.4				126.4	164.9	145.7
	Chlorophyll Specific Areal Production	mgC(mg Chla)-1m-2d-1	99.0	99.0	99.0				134.9	134.9	134.9
	Respiration	uM hr ⁻¹	0.069	0.087	0.078	0.024	0.088	0.056	0.013	0.11	0.057
Plankton											
	Total Phytoplankton	E6CELLS L-1	0.62	1.06		0.23	0.30		0.28	0.48	
	Centric diatoms	E6CELLS L-1	0.12	0.21		0.02	0.04		0.02	0.02	
	<i>Alexandrium tamarense</i>	CELLS L-1	ND	ND		ND	ND		ND	ND	
	<i>Phaeocystis pouchetii</i>	CELLS L-1	ND	ND		ND	ND		ND	ND	
	<i>Pseudo-nitzschia pungens</i>	E6CELLS L-1	0.001	0.002		0.002	0.004		0.0003	0.002	
	Total Zooplankton	ind m ⁻³	1533.8	34282.2		34022.1	34022.1		42130.5	56036.5	

NA - Data not available due to sample loss
 ND - Not detected in the sample

Table 3-6.. Nearfield Survey WF985 (Apr 98) Data Summary

Region		Nearfield		
Parameter	Unit	Min	Max	Avg
In Situ				
Temperature	C	4.25	9.97	7.00
Salinity	PSU	29.1	31.1	29.9
Sigma_T		22.4	24.7	23.4
Beam Attenuation	m-1	0.89	1.83	1.23
DO Concentration	mg L-1	9.38	12.71	11.08
DO Saturation	PCT	89.7	126.0	111.0
Fluorescence	ug L-1	0.07	6.04	1.79
Chlorophyll a	ug L-1	0.14	3.19	1.12
Phaeopigment	ug L-1	0.01	2.81	0.33
Nutrients				
NH4	uM	0.14	4.55	1.02
NO2	uM	0.01	0.16	0.05
NO2+NO3	uM	0.05	3.57	0.72
PO4	uM	0.18	0.64	0.32
SIO4	uM	1.83	24.33	6.52
BIOSI	uM	0.10	2.20	1.08
DOC	uM	137.2	245.2	181.8
PARTP	uM	0.07	0.35	0.20
POC	uM	15.30	35.60	23.87
PON	uM	2.45	5.76	3.53
TDN	uM	12.4	26.5	16.9
TDP	uM	0.42	0.87	0.56
TSS	ug L-1	1.72	8.73	4.45
Urea	uM	1.20	3.10	1.75
Productivity				
Alpha	ALPHA	0.011	0.064	0.029
Pmax	mgCm-3h-1	1.20	3.07	2.29
Areal Production	mgCm-2d-1	302.7	348.0	325.4
Chlorophyll Specific Areal Production	mgC(mg Chla)-1m-2d-1	282.2	282.2	282.2
Respiration	uM hr-1	0.05	0.18	0.11
Plankton				
Total Phytoplankton	E6CELLS L-1	0.59	2.22	
Centric diatoms	E6CELLS L-1	0.15	0.35	
<i>Alexandrium tamarense</i>	CELLS L-1	ND	ND	
<i>Phaeocystis pouchettii</i>	CELLS L-1	ND	ND	
<i>Psuedo-nitzschia pungens</i>	E6CELLS L-1	0.0042	0.0042	
Total Zooplankton	ind m-3	9968.9	31538.5	

ND - Not detected in the sample

Table 3-7. Nearfield Survey WN986 (May 98) Data Summary

Region		Nearfield		
Parameter	Unit	Min	Max	Avg
In Situ				
Temperature	C	4.84	12.53	8.43
Salinity	PSU	27.1	31.2	29.6
Sigma _T		20.3	24.7	22.9
Beam Attenuation	m-1	0.61	2.45	0.88
DO Concentration	mg L-1	9.38	10.78	9.87
DO Saturation	PCT	89.9	116.3	102.0
Fluorescence	ug L-1	0.01	8.74	1.68
Chlorophyll a	ug L-1	0.15	3.33	1.14
Phaeopigment	ug L-1	0.09	1.59	0.78
Nutrients				
NH4	uM	0.14	7.67	1.12
NO2	uM	0.01	0.68	0.074
NO2+NO3	uM	0.02	3.66	0.86
PO4	uM	0.09	0.65	0.31
SIO4	uM	2.91	7.32	4.73
BIOSI	uM	0.40	3.90	1.61
DOC	uM	123.8	455.9	224.80
PARTP	uM	0.08	0.55	0.26
POC	uM	8.10	31.60	15.57
PON	uM	1.59	5.14	2.69
TDN	uM	9.6	19.3	13.9
TDP	uM	0.37	1.07	0.56
TSS	ug L-1	1.17	8.38	4.62
Urea	uM	0.30	1.00	0.60
Productivity				
Alpha	ALPHA	0.002	0.026	0.017
Pmax	mgCm-3h-1	0.12	8.03	2.40
Areal Production	mgCm-2d-1	340.3	403.8	372.1
Chlorophyll Specific Areal Production	mgC(mg Chla)-1m-2d-1	256.6	396.0	326.3
Respiration	uM hr-1	0.009	0.144	0.076
Plankton				
Total Phytoplankton	E6CELLS L-1	0.58	1.23	
Centric diatoms	E6CELLS L-1	0.11	0.42	
<i>Alexandrium tamarense</i>	CELLS L-1	ND	ND	
<i>Phaeocystis pouchettii</i>	CELLS L-1	ND	ND	
<i>Pseudo-nitzschia sp</i>	CELLS L-1	ND	ND	
Total Zooplankton	ind m-3	51954.6	72650.7	

ND - Not detected in the sample

Table 3-8. Combined Farfield/Nearfield Survey WF987 (Jun 98) Data Summary

Region Parameter	Unit	Farfield						Cape Cod Bay			Coastal		
		Boundary			Cape Cod Bay			Cape Cod Bay			Coastal		
		Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg
In Situ													
Temperature	C	4.66	14.02	7.92	4.77	15.65	7.41	5.69	14.40	10.27			
Salinity	PSU	27.3	31.9	30.8	29.0	32.2	30.5	26.2	31.5	29.7			
Sigma_T	m-1	20.6	25.2	24.0	21.2	25.4	23.8	19.3	24.8	22.7			
Beam Attenuation	m-1	0.63	1.61	0.99	0.92	1.40	1.18	0.87	2.23	1.51			
DO Concentration	mg L-1	10.84	12.53	11.64	8.99	11.10	10.05	10.11	13.66	11.41			
DO Saturation	PCT	106.4	133.0	119.8	94.9	120.0	105.0	87.5	138.3	116.0			
Fluorescence	ug L-1	1.51	13.08	6.48	1.64	3.46	2.64	1.15	13.12	5.79			
Chlorophyll a	ug L-1	0.16	8.41	1.90	0.46	5.19	2.04	1.49	11.46	5.75			
Phaeopigment	ug L-1	0.19	1.30	0.49	0.11	1.20	0.38	0.01	1.73	0.80			
Nutrients													
NH4	uM	0.12	1.39	0.79	0.38	2.54	1.35	0.17	3.45	1.35			
NO2	uM	0.02	0.25	0.13	0.09	0.32	0.24	0.01	0.26	0.12			
NO2+NO3	uM	0.01	8.93	3.19	0.21	5.52	3.69	0.09	4.14	1.70			
PO4	uM	0.06	0.88	0.45	0.12	0.90	0.63	0.07	0.89	0.44			
SIO4	uM	0.05	7.71	3.47	0.30	10.85	6.65	0.37	6.21	2.68			
BIO5I	uM	0.60	1.80	1.20	1.20	2.70	2.18	2.50	5.20	3.74			
DOC	uM	132.3	485.6	253.9	131.1	1014.2	380.0	137.9	1098.6	438.8			
PARTP	uM	0.06	0.13	0.09	0.10	0.24	0.16	0.27	0.63	0.47			
POC	uM	12.00	24.40	19.57	11.70	28.80	21.43	23.60	75.60	42.76			
PON	uM	1.82	2.79	2.45	1.71	3.75	2.70	0.76	10.79	5.80			
TDN	uM	11.9	21.2	17.6	13.6	28.7	17.1	9.7	57.9	23.2			
TDP	uM	0.48	1.12	0.77	0.28	1.02	0.77	0.38	1.03	0.68			
TSS	ug L-1	2.24	2.90	2.67	2.97	10.28	6.51	2.88	6.17	4.23			
Urea	uM	0.40	1.00	0.70	0.50	0.80	0.65	0.50	0.70	0.57			
Productivity													
Alpha	ALPHA												
Pmax	mgCm-3h-1												
Areal Production	mgCm-2d-1												
Chlorophyll Specific Areal Production	mgC(mg Chla)-1m-2d-1												
Respiration	uM hr-1												
Plankton													
Total Phytoplankton	E6CELLS L-1	0.16	0.20		0.46	1.50		0.88	4.93				
Centric diatoms	E6CELLS L-1	0.044	0.066		0.11	1.00		0.61	3.73				
<i>Alexandrium tamarese</i>	CELLS L-1	1.23	1.23		2.5	3.1		1.4	2.5				
<i>Phaeocystis pouchettii</i>	CELLS L-1	ND	ND		ND	ND		ND	ND				
<i>Pseudo-nitzschia pungens</i>	E6CELLS L-1	ND	ND		ND	ND		0.0016	0.0048				
Total Zooplankton	ind m-3	53951.4	53951.4		15768.8	15977.6		14715.9	46392.5				

NA - Data not available due to sample loss

ND - Not detected in the sample

Table 3-8. Combined Farfield/Nearfield Survey WF987 (Jun 98) Data Summary (continued)

Region Parameter	Unit	Harbor			Offshore			Nearfield		
		Min	Max	Avg	Min	Max	Avg	Min	Max	Avg
In Situ										
Temperature	C	9.76	16.20	13.25	4.33	13.23	6.59	5.32	16.92	10.46
Salinity	PSU	22.7	30.1	27.7	27.0	31.7	31.0	24.9	31.5	29.7
Sigma_T	m-1	16.3	23.2	20.7	20.2	25.1	24.3	17.9	24.8	22.7
Beam Attenuation	mg/L	1.72	3.12	2.25	0.64	2.16	1.04	0.59	1.57	0.83
DO Concentration	PCT	9.97	11.33	10.82	10.56	13.20	11.87	10.26	12.17	11.21
DO Saturation	ug L-1	116.6	131.6	122.2	101.0	137.4	117.6	103.6	138.7	121.1
Fluorescence	ug L-1	4.02	11.25	6.33	1.63	26.63	8.07	1.45	7.57	3.57
Chlorophyll a	ug L-1	4.57	11.12	6.79	0.29	9.33	3.97	0.26	5.29	1.39
Phaeopigment	ug L-1	0.57	1.69	1.18	0.01	0.34	0.20	0.03	1.12	0.42
Nutrients										
NH4	uM	1.53	9.34	4.86	0.11	2.16	1.02	0.18	4.26	0.91
NO2	uM	0.11	0.49	0.23	0.01	0.31	0.18	0.01	0.31	0.08
NO2+NO3	uM	1.08	9.17	3.21	0.02	10.06	4.21	0.01	5.53	0.83
PO4	uM	0.06	0.66	0.43	0.13	0.91	0.61	0.03	0.77	0.27
SIO4	uM	2.29	15.79	4.91	0.24	8.60	4.85	0.13	11.42	3.08
BIOSI	uM	3.30	6.80	5.29	1.80	5.50	3.63	0.32	4.80	2.11
DOC	uM	181.3	490.0	261.7	139.2	245.4	174.9	122.4	1954.4	367.5
PARTP	uM	0.49	0.85	0.64	0.08	0.51	0.36	0.07	0.48	0.20
POC	uM	41.00	70.10	51.80	13.10	50.00	35.83	7.30	51.20	23.19
PON	uM	6.42	11.50	8.38	1.60	6.66	4.82	1.69	7.11	3.66
TDN	uM	15.8	35.2	25.6	16.8	16.8	16.8	7.8	34.3	14.7
TDP	uM	0.44	1.13	0.88	0.52	0.52	0.52	0.31	1.00	0.57
TSS	ug L-1	3.25	16.00	7.52	3.72	5.93	5.11	0.43	9.58	4.06
Urea	uM	0.50	1.90	0.98	0.50	0.60	0.55	0.20	0.60	0.37
Productivity										
Alpha	ALPHA	0.06	0.13	0.10				0.01	0.07	0.02
Pmax	mgCm-3h-1	11.50	48.03	23.06				0.50	6.26	1.73
Areal Production	mgCm-2d-1	1103.9	1103.9	1103.9				194.3	314.2	254.3
Chlorophyll Specific Areal Production	mgC(mg Chla)-1m-2d-1	157.7	157.7	157.7				223.1	289.3	256.2
Respiration	uM/hr	NA	NA	NA				NA	NA	NA
Plankton										
Total Phytoplankton	E6CELLS L-1	1.64	3.74		1.92	2.84		0.15	2.03	
Centric diatoms	E6CELLS L-1	0.91	2.46		1.39	2.35		0.038	1.58	
<i>Alexandrium tamarense</i>	CELLS L-1	ND	ND		ND	ND		ND	ND	
<i>Phaeocystis pouchetii</i>	CELLS L-1	ND	ND		ND	ND		ND	ND	
<i>Pseudo-nitzschia pungens</i>	E6CELLS L-1	0.0098	0.0098		ND	ND		ND	ND	
Total Zooplankton	ind m-3	37583.0	289811.3		14562.3	14562.3		23258.8	69756.4	

NA - Data not available due to sample loss

ND - Not detected in the sample

Table 3-8. Nearfield Survey WF988 (Jul 98) Data Summary

		Nearfield		
Region				
Parameter	Unit	Min	Max	Avg
In Situ				
Temperature	C	5.08	19.02	10.83
Salinity	PSU	28.1	31.6	30.3
Sigma_T		19.9	25.0	23.1
Beam Attenuation	m-1	0.50	2.19	0.99
DO Concentration	mg L-1	8.96	11.78	10.39
DO Saturation	PCT	93.4	138.1	113.1
Fluorescence	ug L-1	0.03	7.42	1.75
Chlorophyll a	ug L-1	0.04	8.04	1.50
Phaeopigment	ug L-1	0.03	2.33	0.40
Nutrients				
NH4	uM	0.02	3.95	1.01
NO2	uM	0.01	4.52	0.21
NO2+NO3	uM	0.01	10.97	2.89
PO4	uM	0.01	0.99	0.52
SIO4	uM	0.06	10.87	4.24
BIOSI	uM	0.90	3.80	1.52
DOC	uM	140.8	305.0	210.5
PARTP	uM	0.10	0.50	0.29
POC	uM	7.90	45.70	23.44
PON	uM	1.06	6.52	3.22
TDN	uM	10.7	30.0	19.3
TDP	uM	0.35	1.22	0.76
TSS	ug L-1	1.00	8.47	3.97
Urea	uM	0.20	0.60	0.47
Productivity				
Alpha	ALPHA	0.0004	0.024	0.0079
Pmax	mgCm-3h-1	0.12	2.19	0.72
Areal Production	mgCm-2d-1	140.2	197.0	168.6
Chlorophyll Specific Areal Production	mgC(mg Chla)-1m-2d-1	120.7	370.8	245.8
Respiration	uM hr-1	0.07	0.26	0.19
Plankton				
Total Phytoplankton	E6CELLS L-1	1.14	3.31	
Centric diatoms	E6CELLS L-1	0.08	0.94	
<i>Alexandrium tamarense</i>	CELLS L-1	2.3	2.5	
<i>Phaeocystis pouchettii</i>	CELLS L-1	ND	ND	
<i>Psuedo-nitzschia pungens</i>	E6CELLS L-1	0.0015	0.0015	
Total Zooplankton	ind m-3	28686.9	32216.2	

ND - Not detected in the sample

Table 3-9. Nearfield Survey WN989 (Jul 98) Data Summary

Region		Nearfield		
Parameter	Unit	Min	Max	Avg
In Situ				
Temperature	C	5.12	18.03	9.75
Salinity	PSU	29.9	31.6	30.9
Sigma_T		21.5	25.0	23.7
Beam Attenuation	m-1	0.52	3.06	1.08
DO Concentration	mg L-1	6.83	14.58	11.05
DO Saturation	PCT	68.2	140.0	110.2
Fluorescence	ug L-1	0.02	18.74	3.11
Chlorophyll a	ug L-1	0.18	9.60	2.53
Phaeopigment	ug L-1	0.01	0.85	0.30
Nutrients				
NH4	uM	0.14	2.77	0.74
NO2	uM	0.01	0.28	0.14
NO2+NO3	uM	0.04	8.75	3.04
PO4	uM	0.01	0.92	0.52
SIO4	uM	0.16	8.95	4.02
BIOSI	uM	0.50	4.40	1.49
DOC	uM	148.2	581.7	224.9
PARTP	uM	0.02	0.51	0.22
POC	uM	7.80	60.70	27.74
PON	uM	1.29	8.14	3.91
TDN	uM	10.5	37.2	18.6
TDP	uM	0.34	1.06	0.79
TSS	ug L-1	0.80	10.67	3.20
Urea	uM	0.10	1.20	0.70
Productivity				
Alpha	ALPHA	0.004	0.038	0.015
Pmax	mgCm-3h-1	0.29	1.31	0.61
Areal Production	mgCm-2d-1	114.1	176.1	145.1
Chlorophyll Specific Areal Production	mgC(mg Chla)-1m-2d-1	65.5	307.9	186.7
Respiration	uM hr-1	0.07	0.32	0.16
Plankton				
Total Phytoplankton	E6CELLS L-1	1.38	2.46	
Centric diatoms	E6CELLS L-1	0.03	0.71	
<i>Alexandrium tamarense</i>	CELLS L-1	1.1	1.1	
<i>Phaeocystis pouchettii</i>	CELLS L-1	ND	ND	
<i>Psuedo-nitzschia pungens</i>	E6CELLS L-1	0.001	0.006	
Total Zooplankton	ind m-3	26820.8	44344.5	

ND - Not detected in the sample

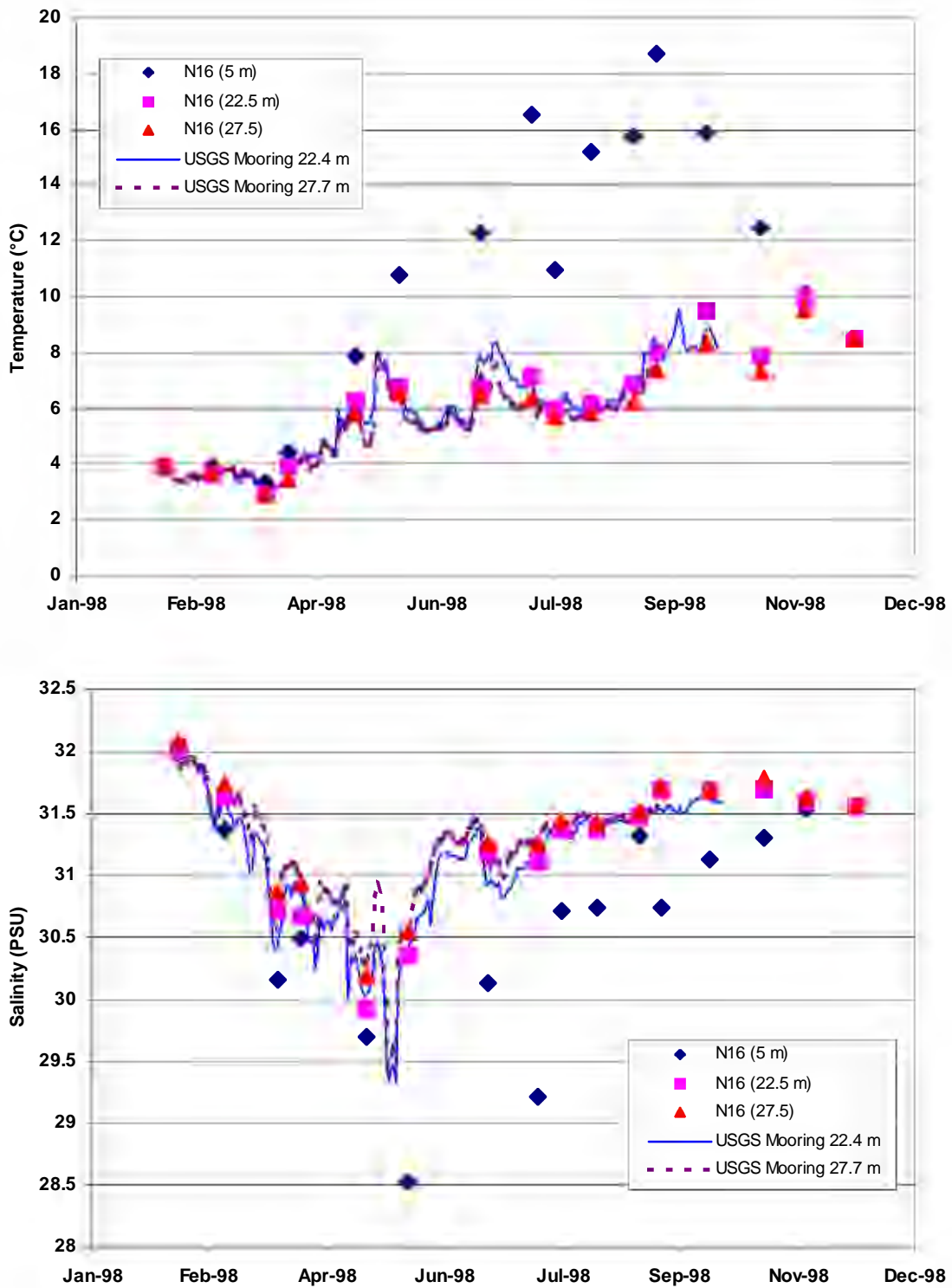


Figure 3-1. USGS Temperature and Salinity Mooring Data from 20 Meters Below Surface and 1 Meter Above Bottom

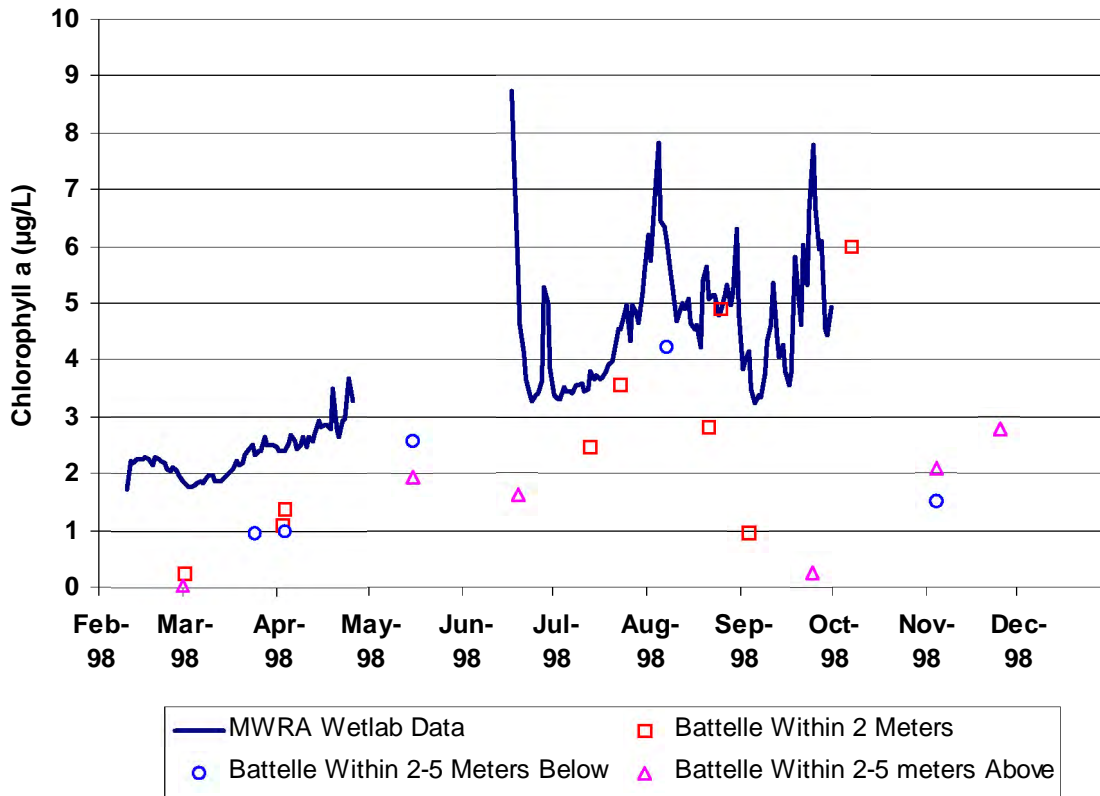


Figure 3-2. MWRA and Battelle Wetlab Chlorophyll a Data

4.0 RESULTS OF WATER COLUMN MEASUREMENTS

Data presented in this section are organized by type of data and survey. Physical data, including temperature, salinity, density, and beam attenuation are presented in Section 4.1. Nutrients, chlorophyll a, and dissolved oxygen are discussed in Section 4.2. Finally a summary of the major results of water column measurements (excepting biological measurements) is provided in Section 4.3.

Four of the nine surveys conducted during the semi-annual period were combined farfield/nearfield surveys. The first three combined surveys in February (WF981 and WF982) and April (WF984) were conducted prior to stratification of the water column. The last combined survey (WF987) was conducted in June following record rainfall in the Boston area (8.5 inches in seven days). Very strong density gradients were observed between surface and bottom waters throughout the nearfield during this survey (Figure 4-1). Data collected during the farfield surveys were evaluated for trends in regional water masses throughout the Boston Harbor, Massachusetts Bay, and Cape Cod Bay. The variation of regional surface water properties is presented using contour plots of surface water parameters, derived from the A (surface) water sample. Classifying data by regions allows comparison of the horizontal distribution of water mass properties over the farfield area.

The vertical distribution of water column parameters is presented in the following sections along three farfield transects (Boston-Nearfield, Cohasset, and Marshfield) in the survey area, and one transect across the Nearfield (Figure 1-3). Examining data trends along transects provides a three-dimensional perspective of water column conditions during each survey. Nearfield surveys were conducted more frequently than farfield surveys, allowing better temporal resolution of the changes in water column parameters and onset stratification. In addition to the nearfield vertical transect (Figure 1-3), vertical variability in nearfield data is examined and presented by comparing surface and bottom water concentrations (A and E depths) and by plotting individual parameters with depth in the water column. A complete set of the surface contour maps, vertical transect plots, and parameter scatter plots is provided in Appendices B, C, and D, respectively.

4.1 Physical Characteristics

4.1.1 Temperature\Salinity\Density

The timing of the annual setup of vertical stratification in the water column is an important determinant of water quality, primarily because of the trend towards continuously decreasing dissolved oxygen in bottom water in the summer and early fall. The pycnocline, defined as a shallow water depth interval over which density increases rapidly, is caused by a combination of freshwater input during spring runoff, and warming of surface water in the summer. Above the pycnocline the surface water is well mixed, and below the pycnocline density increases more gradually. As mentioned above, the surface and bottom water density data collected during the combined surveys indicated that seasonal stratification had been established by the time of the June survey throughout the region. Nearfield surveys activities are conducted more frequently and provide a more detailed evaluation on the onset of stratification. For the purposes of this report, the water column is stratified when the difference between surface and bottom water density is greater than 1.0 sigma-t units. Using this definition, the water column was stratified by mid-May (Figure 4-1). The density profiles indicate that the pycnocline was developing across the nearfield region by late April (WN985) (Figure 4-2).

4.1.1.1 Horizontal Distribution

In early February (WF981), surface water temperatures were fairly uniform ($3.7^{\circ}\text{C} \pm 1^{\circ}\text{C}$) across the entire farfield/nearfield area. The surface water temperatures ranged from 2.65°C at station F31 in the harbor to 4.81°C at boundary station F29. In general, there was an inshore to offshore increase in temperatures (Figure 4-3). Surface water salinity was also fairly uniform throughout Massachusetts and Cape Cod Bays. Salinity ranged between 30.4 and 32.3 PSU (Figure 4-4). Lower salinity values were observed within the harbor and at the stations located off of Gloucester. Higher salinity values were found from the nearfield area southward to Cape Cod Bay. The highest salinity was concomitant with the highest surface temperature at the boundary station F29.

Surface water temperatures in late February (WF982) continued to be uniform ($4^{\circ}\text{C} \pm 0.6^{\circ}\text{C}$) throughout the farfield/nearfield area ranging from 3.36°C at farfield station F22 to 4.69°C at Cape Cod Bay station F01. The distribution of minimum and maximum surface temperatures followed the general trend of increasing temperatures to the south. The pattern observed in the surface salinity data indicated a strong (~ 3 PSU) gradient between inshore and offshore stations. Due to heavy rainfall in late February, surface water salinity in the harbor was relatively low (28.43 – 29.27 PSU), as were the salinity values at the coastal stations (<30.5 PSU).

By early April (WF984), surface water temperature had increased ($5.4^{\circ}\text{C} \pm 1.2^{\circ}\text{C}$) and there was a decreasing temperature gradient from inshore to offshore (Figure 4-5). The highest surface temperature was observed at harbor station F30 and the lowest at offshore station F17. The surface salinity values increased from inshore to offshore (Figure 4-6) with the minimum at harbor station F23 (28.47 PSU) and the maximum at boundary station F12 (30.95 PSU). The changes that were observed in surface temperatures and salinity from February (WF981 and WF982) to April (WF984) are indicative of the onset of seasonal stratification. By examining the temperature-salinity (T-S) plots, there is a clear change in the relationship between these two parameters between WF981 and WF984 (Figure 4-7). In early February, the trend within each of the regions was that increasing temperatures were concurrent with increasing salinity. The surface waters were generally cooler and less saline than bottom waters and thus the density gradient was not significant. By early April, this trend had reversed and higher temperatures were concomitant with lower salinity. In general, during this survey, surface waters were warmer and less saline. Bottom waters were cooler and more saline. The differences between the surface and bottom waters in April, however, had not yet led to the development of a stratified water column.

The next farfield survey was conducted two months later, but during that time period two nearfield surveys were conducted. These surveys provide an indication of the changing physical characteristics during this period when the seasonal stratification of the water column was developing. Nearfield survey WN985 (April 30 – May 1) documented an increase in surface water temperatures of $3\text{--}4^{\circ}\text{C}$ from the previous survey. This increase was coincident with a small decrease in salinity within the nearfield area to 29.08 – 29.75 PSU. By mid-May (WN986), surface temperatures had increased to 10.8°C (N04) – 12.5°C (N11) and surface salinity continued to decrease ranging from 27.1 PSU at station N11 to 28.9 PSU at N08. This represents a decrease of about 1.5 PSU in two weeks in comparison to the values documented during WN985. The increase in surface temperature and decrease in surface salinity are the typical seasonal patterns that lead to the stratification of the water column (see Figure 4-1).

During the June farfield/nearfield survey (WF987), surface water temperature across the farfield region varied almost 9°C (Figure 4-8). The highest temperatures were observed in the harbor and nearfield areas (16.92°C at N20) and the lowest temperatures in Cape Cod Bay (7.98°C at F03). Surface water salinity varied over a very large range with the lowest salinity found in the harbor (22.7

PSU at F30) and the highest salinity being found in Massachusetts and Cape Cod Bays (30.6 PSU at F05). Low salinity surface waters were observed along the coast from Boston to Gloucester and into the northern and eastern portion of the nearfield (Figure 4-9). The low salinity values resulted from record rainfall (8.5 inches between June 12th and June 18th) which caused increased runoff in early June (Figure 4-10). The effect of the rainfall and decreased salinity was very evident when comparing surface density in the nearfield during this survey (WF987) with previous and subsequent surveys (see Figure 4-1).

4.1.1.2 Vertical Distribution

Farfield. The water column was well mixed throughout the region during the winter and early spring of 1998. As suggested previously, the density gradient ($\Delta\sigma_t$), representing the difference between the bottom and surface water σ_t , can be used as a relative indicator of a mixed or vertically stratified water column. During the first three farfield surveys (February – April), there was a decrease in surface and bottom water density throughout the farfield area (Figure 4-11), which coincided with a decrease in surface and bottom water salinity (Figure 4-12). The density gradient during all three surveys was <1.0 and ranged from $\Delta\sigma_t$ of 0.1 in early February (harbor, coastal, and offshore) to $\Delta\sigma_t$ of ~ 0.7 in early April (offshore and boundary). There was little change in $\Delta\sigma_t$ at the boundary stations (~ 0.7) or the Cape Cod Bay stations (~ 0.2) over this two month time period. By June, however, a strong density gradient ($\Delta\sigma_t$ of 2.0-3.5) was observed at all the regions indicating that the water column was vertically stratified throughout the farfield area.

The seasonal establishment of stratified conditions was also clearly illustrated in the vertical contour plots of temperature, salinity, and sigma-T for the Boston-Nearfield, Cohasset, and Marshfield transects (Appendix C). In February (WF982), there was little variation in these parameters over the water column, though as shown in the transect plots for σ_t , there was an increase in density from inshore to offshore (Figure 4-13). In early April (WF984), the physical characteristics of the water column indicated the onset of seasonal stratification with an increase in the density gradient between the surface and bottom waters. By June (WF987), a strong pycnocline had developed throughout the region (Figure 4-14). Low salinity surface waters resulting from the June rain event and increased runoff drove the density gradient between surface and bottom waters. The harbor and coastal fresh water signature is clearly evident along the Boston-Nearfield transect (Figure 4-15). A complete set of farfield transect plots of physical water properties is provided in Appendix C.

Nearfield. The onset of stratification can be observed more clearly from the data collected in the nearfield area. The nearfield surveys are conducted on a more frequent basis and thus provide a more detailed picture of the physical characteristics of the water column. In Figure 4-16, it is evident that the water column had begun to stratify by early May (WN985) and that by mid-May there was a strong density gradient ($\Delta\sigma_t$ of 2-3) between the surface and bottom waters in the nearfield area. During the June survey (WF987), a very strong density gradient ($\Delta\sigma_t > 5$) was observed at the Inner Nearfield and Broad Sound stations (see Figure 4-1). The nearfield water column remained stratified through the rest of this reporting period. The physical characteristics that led to the establishment of stratified conditions are detailed below.

The nearfield water column was well mixed with respect to temperature (Figure 4-17) during the first four surveys of 1998. The temperature gradient between surface and bottom waters in the nearfield was negligible until April and even then only a 1-2 °C gradient was observed. Between April (WF984) and early May (WN985), surface water temperature increased to 9 °C while bottom water temperature stayed around 5 °C across the nearfield. The gradient between surface and bottom waters continued to increase with the establishment of seasonal stratification. The vertical transects presented in Figure 4-18 illustrate the development of the thermocline over the nearfield for this time period. From February through March, the water column was well mixed as shown for WN983. A weak temperature gradient was observed in April (WF984) and in May (WN985) temperatures had

increased throughout the water column with a coincident increase in the vertical gradient. By mid-May (WN986), the nearfield water column was thermally stratified with surface temperatures of 10-12 °C in the upper 5 m (slightly higher at station N10) and bottom water temperatures of 6-8 °C at the nearshore stations and 4-6 °C at stations N15 and N04. Surface temperatures continued to increase reaching an average maximum surface temperature of 18 °C in July (WN988). By the end of July (WN989), surface temperatures had decreased in the nearfield. This may have resulted from summer upwelling events. The average bottom water temperature remained relatively stable (6-8°C) after establishment of stratified conditions.

As observed for temperature, the gradient between surface and bottom water salinity remained relatively weak (~1 PSU) until mid-May (Figure 4-19). Surface and bottom water salinity decreased 1-2 PSU from February to May. Following the early May survey (WN985), an increase in average bottom water salinity was observed for each successive survey. Surface water salinity, however, continued to decrease reaching a minimum during the June survey. The average surface water salinity in June was 25 PSU at these nearshore stations and 28 PSU at the outer nearfield stations. As mentioned above, these low salinity values resulted from input of freshwater to the nearfield surface waters from the June rain event and concomitant increases in runoff to the coastal waters. During the final two surveys in July, surface water salinity had returned to more typical values of approximately 30 PSU.

4.1.2 Transmissometer Results

Water column beam attenuation was measured along with the other *in situ* measurements at all nearfield and farfield stations. The transmissometer determines beam attenuation by measuring the percent transmission of light over a given path length in the water. The beam attenuation coefficient (m^{-1}) is indicative of particulate concentration in the water column. The two primary sources of particles in coastal waters are biogenic material (plankton or detritus) or suspended sediments. Beam attenuation data is often evaluated in conjunction with fluorescence data to ascertain source of the particulate materials (phytoplankton versus detritus or suspended sediments).

In early February (WF981) surface water beam attenuation ranged from 3.94 m^{-1} at station F23 located just outside the harbor to 0.76 m^{-1} at Boundary station F29. There was a clear decrease in beam attenuation from inshore to offshore with the elevated harbor signal being observed at the Inner Nearfield stations (Figure 4-20). During the second farfield survey in late February (WF982), surface water beam attenuation in Massachusetts Bay exhibited a similar decrease in values away from the harbor (2.29 m^{-1} at F30 to 0.70 m^{-1} at station F16). In Cape Cod Bay, however, elevated beam attenuation values at stations F01 and F02 (1.69 and 1.50 m^{-1} , respectively) were associated with the highest surface water fluorescence values observed during that survey (2.82 and 2.23 μgL^{-1} , respectively).

During the early April and June farfield/nearfield surveys (WF984 and WF987), beam attenuation in the surface water exhibited a similar decrease in values from inshore to offshore stations and was indicative of an increase in water clarity away from Boston Harbor. In April, the highest surface water beam attenuation values were found at the harbor stations (F23 and F30) and values decreased with distance from the harbor. In June, high surface water beam attenuation values were again observed at the harbor stations (2.01 – 3.12 m^{-1}), but elevated values were also observed at the inshore stations from Boston Harbor to Gloucester. Coincident fluorescence values were also higher at these coastal stations. The elevated beam attenuation and fluorescence values resulted from increased runoff (input of suspended sediments and potential source of nutrients) due to the heavy rains in June.

4.2 *Biological Characteristics*

4.2.1 **Nutrients**

Nutrient data were preliminarily analyzed using x/y plots of nutrient depth distribution, nutrient/nutrient relationships, and nutrient/salinity relationships (Appendix D). As with the physical characteristics, surface water contour maps (Appendix B) and vertical contours from select transects (Appendix C) were also produced from the nutrient data to illustrate the spatial variability of these parameters.

The most striking observation from the nutrient data for the first half of 1998 was the lack of a strong spring draw down of nutrients in the nearfield. A combination of physical and biological factors contributed to the extended period of replete nutrients in the spring of 1998. As mentioned in the previous section, seasonal stratification did not develop until May, thus for much of the spring the water column was well mixed supplying nutrients to the surface waters. Additionally, storms in late February may have contributed not only to the instability of the water column, but also to increased terrestrial runoff of nutrients into the bays. Finally, as discussed in Section 5, areal productivity was relatively low throughout the region, there was no winter/spring diatom bloom, and the abundance of phytoplankton remained $< 10^6$ cells L^{-1} until May, thus biological nutrient uptake was relatively low. The combination of physical instability and biological inactivity resulted in elevated nutrient concentrations in the surface waters throughout most of the region from February to June.

4.2.1.1 **Horizontal Distribution**

During this semi-annual period, the highest nutrient concentrations were consistently measured at the harbor and harbor influenced coastal and nearfield stations. Dissolved inorganic nutrients were generally at a maximum in surface waters during the first winter survey (WF981). By late February, ammonium and phosphate concentrations had decreased (except at the harbor and harbor influenced coastal stations) while relatively high concentrations of nitrate and silicate were still present in surface waters throughout the region. Similar nutrient conditions were observed in April: elevated concentrations at harbor and harbor influenced stations, low ammonium and phosphate concentrations throughout the region, and relatively high concentrations of nitrate and silicate in the nearfield and offshore. By June, however, nutrients were present in low concentrations (phosphate and ammonium at or near detection limits) throughout the region except for silicate in the nearfield and along the coast from Boston to Gloucester. These elevated silicate concentrations were due to heavy rains and the resulting runoff.

In early February (WF981), the highest nutrient values were found in Boston Harbor (Ammonia (NH_4) = 12.9 μM at station F31; Nitrate (NO_3) = 13.3 μM at station F30; Silicate (SiO_4) = 24.63 μM at station F30; Phosphate (PO_4) = 1.28 μM at station F31). The lowest concentrations were observed in Cape Cod bay at station F01 (NH_4 = 0.01 μM ; NO_3 = 0.47 μM ; SiO_4 = 0.61 μM ; PO_4 = 0.09 μM). Nutrient concentrations generally decreased outside of the harbor and away from the coast (Figure 4-21). The low nutrient concentrations at station F01 coincided with elevated chlorophyll concentrations and phytoplankton abundance (centric diatoms dominant) and indicating that there may have been a winter bloom in Cape Cod Bay. The chlorophyll concentrations and phytoplankton abundance were, however, not high enough to have supported the observed nutrient drawdown, which suggests that the bloom event had occurred prior to the early February survey (WF981).

During the late February survey (WF982), the nutrient pattern was similar to WF981 with high concentrations in the harbor and along the south shore coastline then decreasing in the nearfield,

Gloucester area, and offshore. In general, the nutrient concentrations in the surface waters had decreased since early February, but were still replete throughout the region.

In early April (WF984), the spatial pattern persisted with high concentrations in the harbor, a decrease in concentrations from inshore to offshore, and lower concentrations in Cape Cod Bay. Surface waters were replete in NO_3 and SiO_4 with concentrations for both of these nutrients ranging from ~2 to 8 μM outside of Boston Harbor (exception for NO_3 at station F02 = 0.55 μM). A decrease from the February surveys in NH_4 (< 1 μM) and PO_4 (0.4 – 0.6 μM) concentrations was evident at the non harbor influenced stations, but the concentrations did not indicate that these nutrients were depleted from the surface waters.

During the beginning of June, New England experienced heavy rains. While this may have contributed to the continued high concentrations of nutrients in the harbor, most nutrients were depleted in the nearfield and farfield areas. Nitrate and phosphate were at or below detection limits throughout most of the nearfield and offshore areas (Figure 4-22). Silicate was the only parameter to exhibit an increase in concentration that correlated to the decrease in salinity (Figure 4-9) in the surface waters along the coast from Boston Harbor to Gloucester and most of the nearfield area (Figure 4-23). The impact of SiO_4 in association with runoff is clearly evident in Figure 4-23 as a sharp gradient begins offshore then cuts through the nearfield. The contour patterns observed in the data for salinity (Figure 4-9) and silicate (Figure 4-23) could be indicative of not only coastal runoff, but also the intrusion of a low salinity, SiO_4 rich plume from the northern rivers (e.g. Merrimack River). The major precipitation event occurred on June 13th approximately a week before the survey had a sufficient amount of time for the river plume to progress into Massachusetts Bay. Interestingly, the timing of sampling may have exaggerated the plume signal as the Cape Cod Bay stations and southern Massachusetts Bay stations were sampled on June 16th and 17th while the nearfield and northern stations were sampled on June 18, 19, and 20.

In July, the nearfield surveys (WN988 and WN989) documented low concentrations for all nutrients throughout the nearfield. Most surface water nutrient concentrations were less than 0.5 μM . These surface water concentrations indicate that the typical of the low nutrient, stratified water column summer conditions had developed by the end of this semi-annual period.

4.2.1.2 Vertical Distribution

Farfield. The vertical distribution of nutrients was evaluated using vertical contours of nutrient data collected along three transects in the farfield: Boston-Nearfield, Cohasset, and Marshfield (Figure 1-3; Appendix C). During the first combined farfield/nearfield survey in early February (WF981), the transect contours indicate that the water column was replete with nutrients. There was an inshore/offshore gradient of decreasing nutrient concentration for each of the nutrients. This pattern was most pronounced for the NH_4 data that clearly showed the harbor/coastal signal (Figure 4-24). In late February (WF982), similar inshore/offshore gradients were observed for each nutrient. In general, nutrient concentrations had decreased, but were still replete along each of the three transects.

By April (WF984), the vertical nutrient distribution had begun to change. There was still a clear inshore/offshore decrease in surface water nutrient concentrations and all nutrients were replete along each of the transects, but at the offshore stations there was an increase in NO_3 , PO_4 , and SiO_4 concentrations with depth (Figure 4-25). Though there had not been a significant winter/spring phytoplankton bloom (Section 5), the phytoplankton biomass was steadily increasing from February to April and nutrient concentrations were reduced in the surface waters while concentrations in the bottom waters remained relatively constant (NH_4 being the exception as Boston Harbor and the coastal inputs are the main sources for this nutrient).

During the combined farfield/nearfield survey in June, nutrient levels in the surface waters at the non-harbor-influenced stations were generally depleted. Ammonium concentrations still exhibited a strong harbor/coastal signal with a dominant inshore/offshore horizontal gradient of decreasing concentrations. Phosphate and nitrate were depleted in the surface waters along each of the transects, as was silicate except for the Boston-Nearfield transect where the heavy rains/runoff contributed to elevated concentrations along the coast and throughout most of the nearfield area (Figure 4-26). There was a strong vertical gradient for NO_3 , PO_4 , and SiO_4 along each of the transects.

Nutrient-salinity plots are useful in distinguishing water mass characteristics and in examining regional linkages between water masses (Appendix D). Dissolved inorganic nitrogen (DIN) plotted as a function of salinity for each of the combined surveys illustrates the transition from winter to summer nutrient conditions. During the February surveys, the DIN-salinity plot exhibited a negative correlation between DIN and salinity (Figure 4-27a). This relationship is indicative of winter conditions when the water column is not stratified and the harbor and coastal waters are a source of low salinity, nutrient rich waters. During the April survey (WF984), the winter signature was still present, but there also appears to be a slight increase in DIN concentrations at high salinity values (Figure 4-27b). Though stratification had not yet developed, an increase in nutrient uptake in the offshore surface waters led to a small vertical gradient in DIN with lower concentrations in the lower salinity surface waters and higher concentrations at depth. This suggests that this period is near the beginning of the transition period between winter and summer biogeochemical conditions. By June, the summer relationship between DIN and salinity is clearly evident (Figure 4-27c) though due to the heavy rain/runoff there are still a number of harbor and coastal stations where high DIN concentrations and low salinity were observed. The low DIN concentrations at low and intermediate salinity represent the surface waters throughout the Bays where biological activity has consumed DIN from both horizontal (harbor/coastal) and vertical (bottom waters) sources.

Nearfield. The nearfield surveys are conducted more frequently and provide a high resolution of the temporal variation in nutrient concentrations over the semi-annual period. In previous sections, the transition from winter to summer physical and nutrient characteristics has been discussed. For the nearfield, the transition from winter to summer nutrient regimes can be demonstrated by examining the variations in surface and bottom water SiO_4 and NO_3 concentrations. In Figures 4-28 and 4-29, surface and bottom water SiO_4 and NO_3 concentrations from five nearfield stations representing the four corners (N01, N04, N07, and N10) and the center (N21) of the nearfield were plotted for each of the nine surveys conducted this period. The highest concentrations were observed during the first combined survey in February. The concentrations of SiO_4 and NO_3 generally decreased over the course of this period, but no rapid decline was observed. During the first four surveys (February – April), there was little variation in SiO_4 and NO_3 between the surface and bottom waters at each station and the nearfield waters were replete with respect to these nutrients. Silicate, in fact, did not become depleted in the nearfield until July. Nitrate was depleted by mid-May at most of the nearfield stations except at the SW (station N10) and NE (station N04) corners of the nearfield which were not depleted until the June survey (WF987). These trends in SiO_4 and NO_3 in the nearfield support the observation that there was no winter/spring diatom bloom in the nearfield and corroborate the phytoplankton and biomass data that suggest there was a gradual increase in phytoplankton (primarily microflagellates and dinoflagellates) from February to June. Another interesting trend in Figure 4-29 is the dramatic increase in NO_3 concentrations in the bottom water from May/June to July. The increase in concentration in the bottom water is due to a combination of biological decomposition and nutrient regeneration processes.

Prior to the onset of stratified conditions in May, nutrient concentrations were relatively high. The highest concentrations were observed during the first survey in February and the values for over the nearfield were approximately 7-10 μM NO_3 , 0-6 μM NH_4 , 0.7-1 μM PO_4 , and 8.5-12.5 SiO_4 . Most of the variability in these ranges was due to the inshore/offshore decrease in concentrations. Over the

course of the next three surveys, nutrient concentrations decreased, but none of the nutrients was depleted. By April (WF984), nutrient concentrations in the nearfield had decreased to approximately 2-6 μM NO_3 , 0.5-2 μM NH_4 , 0.3-0.8 μM PO_4 , and 3-8 SiO_4 .

During the May surveys (WN985 and WN986), NO_3 , NH_4 , and PO_4 were nearly depleted in the surface waters and were present at relatively low concentrations at depth (1-4 μM , 0-3 μM , 0.3-0.6 μM , respectively). Silicate, however, was present at moderate concentrations over the water column until June (~2-10 μM). By June, NO_3 , NH_4 , and PO_4 concentrations were generally at or below detection limits in the surface waters and remained that way through July. Silicate concentrations remained elevated throughout most of the nearfield in June due to the intrusion of high silicate, low salinity waters from coastal runoff. During the final two surveys in July, SiO_4 was also observed at relatively depleted concentrations. Additionally, as was observed with NO_3 (Figure 4-29), concentrations of PO_4 and SiO_4 below the pycnocline increased sharply from May/June to July.

The relationship of nutrients to salinity in the nearfield followed the trend discussed above for the whole region. For the July data, all of the nutrient-salinity plots exhibited the typical summer relationship of increasing nutrient concentrations with increasing salinity (and depth) and the lower salinity surface waters being depleted or nearly depleted of nutrients.

An examination of the nutrient-nutrient plots showed that surface waters were generally depleted in DIN relative to PO_4 and SiO_4 in the nearfield for the entire semi-annual period (Appendix D). During the first three surveys, the DIN: PO_4 ratio was approximately equal to the Redfield value of 16 at some of the harbor-influenced stations. For the remaining stations and surveys, the ratio of DIN: PO_4 was less than 16 and decreased from 8-10 during the first four surveys prior to stratification of the nearfield water column (February – April) to <4 during the final five surveys.

4.2.2 Chlorophyll A

Chlorophyll concentrations (based on *in situ* fluorescence measurements) were generally low during the earlier surveys and increased over the course of the period. The main exceptions was the regional maximum concentrations observed during WF984 for subsurface waters in Cape Cod Bay (17.0 μgL^{-1}) and the coastal area (15.3 μgL^{-1}). Maximum chlorophyll values for the Boundary, Boston Harbor, and Offshore areas were observed during WF987. The maximum values observed during each survey in the nearfield increased from 0.83 μgL^{-1} in early March (WF982) to 18.7 μgL^{-1} in late July (WN989).

4.2.2.1 Horizontal Distribution

Surface chlorophyll concentrations were generally low throughout the region during the first two surveys of 1998 (WF981 and WF982). Due to an instrument malfunction, we did not collect *in situ* fluorescence data in early February (WF981), but the chlorophyll concentrations from laboratory extractions were all less than 1 μgL^{-1} . Chlorophyll concentrations were > 0.6 μgL^{-1} in the Harbor (F23 and F24), at a few nearfield stations, and at station F01 in Cape Cod Bay. In late February (WF982), elevated chlorophyll concentrations were observed in southern Cape Cod Bay (2-3 μgL^{-1}) and Boston Harbor (~1 μgL^{-1}). Surface chlorophyll concentrations were less than 1 μgL^{-1} throughout the rest of the region.

By early April (WF984), chlorophyll concentrations had increased with high concentrations being observed at the western Cape Cod Bay, Coastal, Boston Harbor, and northern Boundary stations (Figure 4-30). Relatively low chlorophyll levels were observed at the Offshore and eastern Cape Cod Bay stations (1-2 mgL^{-1}). The phytoplankton identifications indicate that there were elevated

numbers of chain-forming and centric diatoms in Cape Cod Bay and suggest a coastal spring diatom bloom. Microflagellates were the dominant phytoplankton in Massachusetts Bay and continued to increase in abundance (and chlorophyll concentration) from the February surveys.

By mid-June (WF987), the phytoplankton assemblage throughout the farfield was dominated by chain-forming diatoms. The general pattern in surface chlorophyll was similar to that observed in early April. The chlorophyll concentrations at the Coastal and Boston Harbor stations were relatively high ranging from 5 to 13 μgL^{-1} (Figure 4-31). There was a clear decrease in surface chlorophyll concentration from the inshore to the offshore stations. This was also evident within the nearfield with higher chlorophyll concentrations found to the north and west and lower concentrations to the southeast. The pattern observed in surface water chlorophyll closely followed the pattern of surface salinity (Figure 4-9).

4.2.2.2 Vertical Distribution

Farfield. The chlorophyll concentrations over the water column were examined along the three east/west farfield transects (Figure 1-3) to compare the vertical distribution of chlorophyll across the region. As mentioned previously, there were no fluorescence data for WF981, but laboratory data for extracted chlorophyll indicated that concentrations were low throughout the region ($<1 \mu\text{gL}^{-1}$). During WF982, the chlorophyll concentrations along the transects were generally low ($<2 \mu\text{gL}^{-1}$) except at Coastal station F05 and there was an inshore to offshore decrease in chlorophyll. As with the physical properties, the water column was well mixed in regard to chlorophyll concentrations.

In April (WF984), chlorophyll concentrations were higher ranging from <2 to 15 μgL^{-1} along the three transects. The highest concentrations were observed nearshore at station F05 and there was generally a decrease in chlorophyll from inshore to offshore with the exception being elevated concentrations in the surface waters at station F27 along the Boston-Nearfield transect. The chlorophyll maximum was observed in both surface and subsurface waters along the Boston-Nearfield transect while a subsurface maximum was seen along the Cohasset and Marshfield transects. None of the maxima were sharply defined layers, but rather broad zones (10-20 m) of elevated chlorophyll concentrations.

Chlorophyll concentrations during the June survey were the highest observed on these transects and covered a wide range of values (<2 to 26.6 μgL^{-1}). Subsurface chlorophyll maxima were observed along each of the transects except at the harbor influenced station F23. The surface and near-surface chlorophyll concentrations were relatively high along the Boston-Nearfield transect from station F23 to station N21 (Figure 4-32). The elevated chlorophyll values at these nearshore stations closely follow the incursion of low salinity water that was observed during this survey (see Figure 4-15). The subsurface chlorophyll maximum that was observed at the offshore stations along the Boston-Nearfield transects and along the Cohasset and Marshfield transects appears to be associated with the higher salinity water near the pycnocline. It is unclear whether the phytoplankton communities associated with the lower and higher salinity waters were different, but the gross taxonomic data indicate that similar assemblages (see Figure 5-16; dominated by centric diatoms) were present at the four stations along these transects that phytoplankton samples were collected (F23, F24, N16, and F06).

Nearfield. The vertical distribution of chlorophyll was examined along a transect from the southwest corner to the northeast corner of the nearfield area (see Figure 1-3). The southwest corner, station N10, often exhibits a harbor chlorophyll signal while an offshore chlorophyll signal is more often observed at the northeast corner, station N04. Chlorophyll concentrations were relatively low ($<1 \mu\text{gL}^{-1}$) in early March (WF982) along the nearfield transect. On March 24th (WN983), a subsurface chlorophyll max (1-3 μgL^{-1}) was observed at a depth of approximately 10 meters across the nearfield transect with concentrations of $> 3 \mu\text{gL}^{-1}$ at station N19 (Figure 4-33).

In early April (WF984), elevated chlorophyll concentrations ($1-3 \mu\text{gL}^{-1}$) were present over the upper 10 m of the water column at the harbor-influenced station N10. This harbor chlorophyll signal was also observed as a subsurface chlorophyll max at 10-15 m along the rest of the nearfield transect. By May 1st (WN985), the water column in the nearfield was beginning to stratify and nutrient concentrations in the surface waters had decreased. Chlorophyll concentrations in the upper 20 m of the water column were low ($<1 \mu\text{gL}^{-1}$) while the concentrations below the pycnocline ranged from $3-7 \mu\text{gL}^{-1}$. This chlorophyll distribution represents either localized production at depth or sinking phytoplankton. Based on the productivity data (see Appendix E), it appears that the high subsurface chlorophyll concentrations resulted from localized production that was coincident with elevated nutrient concentrations. By mid May (WN986), the range of chlorophyll concentrations was similar, but the vertical distribution of chlorophyll had changed. A subsurface chlorophyll maximum of $1-5 \mu\text{gL}^{-1}$ was observed across the transect at 5-10 m (Figure 4-34). Surface water concentrations were $<1 \mu\text{gL}^{-1}$ at every station except N10.

In mid-June (WF987), chlorophyll concentrations had increased to $1-3 \mu\text{gL}^{-1}$ along the most of the nearfield transect with elevated concentrations being found in the surface waters at stations N15 and N04 ($3-5 \mu\text{gL}^{-1}$), and N10 ($3-9 \mu\text{gL}^{-1}$). Higher concentrations continued to be observed at station N10 relative to the rest of the transect during both of the July surveys (WN988 and WN989). In mid-July, chlorophyll concentrations reached $9-11 \mu\text{gL}^{-1}$ in the upper 15 meters of the water column at station N10 at the subsurface maximum at 5-10 meters. The subsurface maximum in chlorophyll concentration extended over the entire transect with concentrations of $1-3 \mu\text{gL}^{-1}$ observed at a depth of 5-10 meters at stations from N19 to N04. In late July, chlorophyll concentrations were relatively high in the upper 15 m at stations N10, N15, and N21 and a subsurface chlorophyll maximum of $>9 \mu\text{gL}^{-1}$ was observed at approximately 5 m for the two inshore stations. At the offshore stations (N15 and N04), chlorophyll concentrations were $<2 \mu\text{gL}^{-1}$ over most of the water column except for a layer at about 15 m where concentrations of $5-9 \mu\text{gL}^{-1}$ (station N15) and $>11 \mu\text{gL}^{-1}$ (station N04) were observed.

4.2.3 Dissolved Oxygen

Spatial and temporal trends in the concentration of dissolved oxygen (DO) were evaluated for the entire region (Section 4.2.3.1) and for the nearfield area (Section 4.2.3.2). Due to the relative importance of identifying low DO conditions, bottom water DO minima were examined for the water sampling events. The minimum measured DO concentration was 6.83 mgL^{-1} in the nearfield in July (WN989). Regionally, a DO concentration minimum of 8.43 mgL^{-1} was observed in the offshore area in late February (WF982). DO concentrations were generally higher than usual for the late spring and early summer in 1998. Due to the late onset of stratification and the lack of a winter/spring phytoplankton bloom, the relatively high bottom water DO concentrations are not surprising and this trend may continue through the remainder of 1998.

4.2.3.1 Regional Trends of Dissolved Oxygen

The DO of bottom waters was compared between areas and over the course of the four combined surveys. A time series of the average bottom water DO concentration for each area is presented in Figure 4-35a. Average bottom water DO concentrations ranged from 9.8 to 11.7 mgL^{-1} . After a slight decrease in bottom water DO from the February/March surveys to the April survey, an increase in these values was observed during the final combined survey. The normal trend is for DO to generally decline in the bottom waters from February to June, but, consistent with the lack of a winter/spring phytoplankton bloom and the increased productivity observed during the WF987 survey, bottom water DO concentrations were higher throughout most of the farfield region in June. In Cape Cod Bay, the average bottom water DO concentrations were slightly lower in June than

during the previous surveys, though there was little change in these values during this reporting period in this area.

The trend of increasing DO in the bottom waters was even more apparent in the DO % saturation data (Figure 4-35b). For each of the areas, the highest average DO % saturation was observed during the June survey. The bottom waters were supersaturated with respect to DO in June with average values ranging from 102-120 % saturation.

In February, the spatial distribution of DO generally exhibited an inshore to offshore trend of decreasing DO concentrations along the three regional transects. In April, the onset of seasonal stratification led to lower DO concentrations in the bottom waters along each of the transects (Figure 4-36). By June, however, high DO concentrations ($>11 \text{ mgL}^{-1}$) were observed throughout the water column (Figure 4-37). The elevated DO concentrations were coincident with the highest chlorophyll concentrations and productivity observed for the farfield region.

4.2.3.2 Nearfield Trends of Dissolved Oxygen

Dissolved oxygen concentrations and percent saturation values for both the surface and bottom waters of the 21 nearfield stations were averaged and plotted for each of the nearfield surveys. There was less than a 1 mgL^{-1} difference between the surface and bottom water DO concentration for all but the last survey (Figure 4-38a). From February to early July, the average surface and bottom water concentrations for the nearfield area generally ranged from $10\text{-}11 \text{ mgL}^{-1}$. In late July, there was a 3 mgL^{-1} gradient in DO concentrations between the surface and bottom waters and the average surface water DO concentration in July (11.7 mgL^{-1}) was the highest observed during this period.

There was little variation in the average DO % saturation for the surface and bottom waters for the first three surveys of 1998 (Figure 4-38b). With the onset of stratification in April (WF984), the gradient between surface and bottom water % saturation began to increase and the actual values had decreased reaching the lowest average % saturation for both surface (102%) and bottom (91%) waters. A large increase in DO concentration and % saturation was observed between the May and June surveys. This increase was probably the result of a combination of factors: the major rain event that occurred in mid June and the continuation of the high productivity measured in May (WN986). The gradient between surface and bottom water % saturation increased from June through July as surface % saturation remained high and bottom water % saturation decreased.

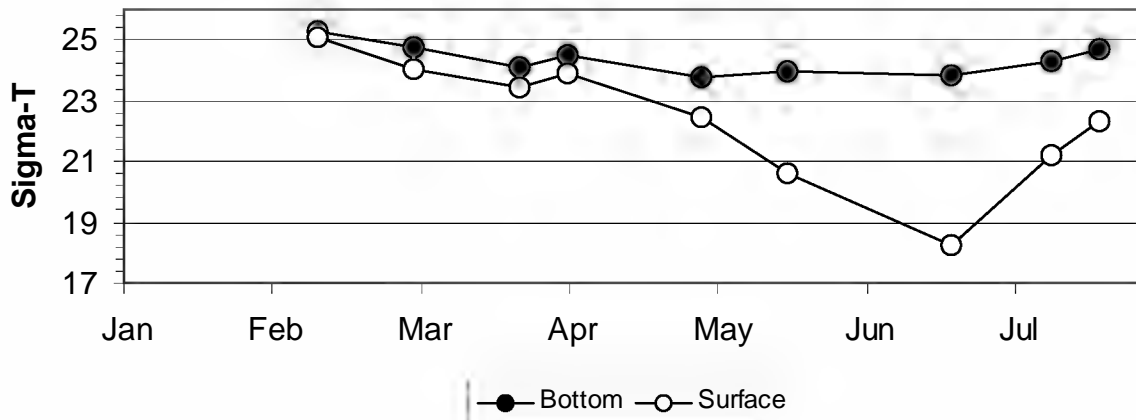
The large gradients in DO concentration and % saturation observed in July resulted from a combination of physical and biological factors. By June (WF987), the nearfield water column was strongly stratified separating the biological and chemical processes of the surface and bottom waters. The elevated surface water DO concentration and % saturation in July was coincident with generally high chlorophyll concentrations and high phytoplankton abundance while the decrease in bottom water DO concentrations was coincident with an increase in respiration rates in July.

4.3 Summary of Water Column Results

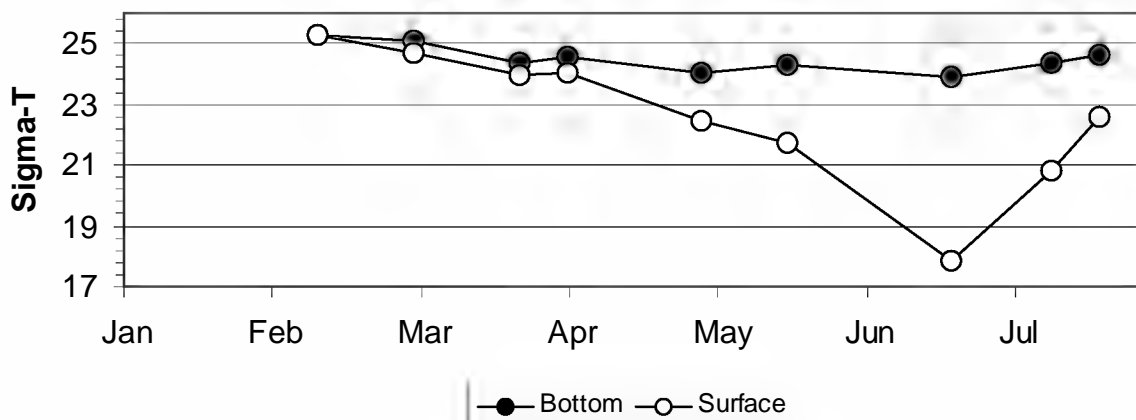
- The establishment of a stratified water column occurred later than usual in 1998. Regional seasonal stratification was not observed until the June survey (WF987), though the onset of stratification was suggested by the data collected in April (WF984).
- In the nearfield area, the data indicated that the stable pycnocline associated with seasonal stratification was developing in early May, but that stratified water column conditions were not established in the nearfield until the middle of May.
- A significant rain event occurred prior to the June farfield/nearfield survey (WF987). As a result of the rainfall and concomitant increase in runoff, very low salinity surface waters were

- observed along the coast from Boston to Gloucester and into the northern and eastern portion of the nearfield. In these areas, the presence of low salinity surface waters served to intensify the already established water column stratification.
- The most striking observation from the nutrient data for the first half of 1998 was the lack of a strong spring draw down of nutrients in the nearfield. A combination of physical and biological factors contributed to the extended period of replete nutrients in the spring of 1998.
 - Seasonal stratification did not develop until May, thus for much of the spring the water column was well mixed supplying nutrients to the surface waters.
 - Storms in late February may have contributed not only to the instability of the water column, but also to increased terrestrial runoff of nutrients into the bays.
 - Productivity was relatively low throughout the region, there was no winter/spring diatom bloom, and the abundance of phytoplankton remained $< 10^6$ until May, thus biological nutrient uptake was relatively low.
 - The highest nutrient concentrations were consistently measured in Boston Harbor and at the harbor-influenced coastal and nearfield stations.
 - Dissolved inorganic nutrients were generally at a maximum in surface waters during the first winter survey, present at non-limiting concentrations from February to May, and depleted or nearly depleted in June and July.
 - Chlorophyll concentrations were generally low during the earlier surveys and increased over the course of the period with the highest chlorophyll values being observed in June. The main exceptions being the regional maximum concentrations observed in April for subsurface waters in Cape Cod Bay and the coastal area.
 - In the nearfield area, the highest chlorophyll concentrations were observed in mid May (WN986). For this survey, the distribution of chlorophyll suggested a harbor or coastal influence with productive phytoplankton and/or nutrients being transported offshore to the nearfield area.
 - DO water concentrations were generally higher than usual for the late spring and early summer in 1998. The normal trend is for DO to generally decline in the bottom waters from February to June, but the relatively high DO concentrations observed are consistent with the other physical and biological data.
 - The delay in establishment of seasonal stratification – continued communication between surface and bottom waters during much of this period.
 - The lack of a winter/spring phytoplankton bloom – limited supply of organic material to the bottom waters until late spring/summer.
 - The increased productivity during the May and June surveys – biological production of oxygen over much of the water column.
 - Typical summer vertical DO gradients were observed in the nearfield area in July. These gradients resulted from a combination of physical and biological factors.
 - By June, the nearfield water column was strongly stratified separating the biological and chemical processes of the surface and bottom waters.
 - The elevated surface water DO concentration in July was coincident with generally high chlorophyll concentrations and high phytoplankton abundance
 - The decrease in bottom water DO concentrations was coincident with an increase in respiration rates in July.
-

(a) Inner Nearfield: N10, N11



(b) Broad Sound: N01



(c) Outer Nearfield: N04, N07, N16, N20

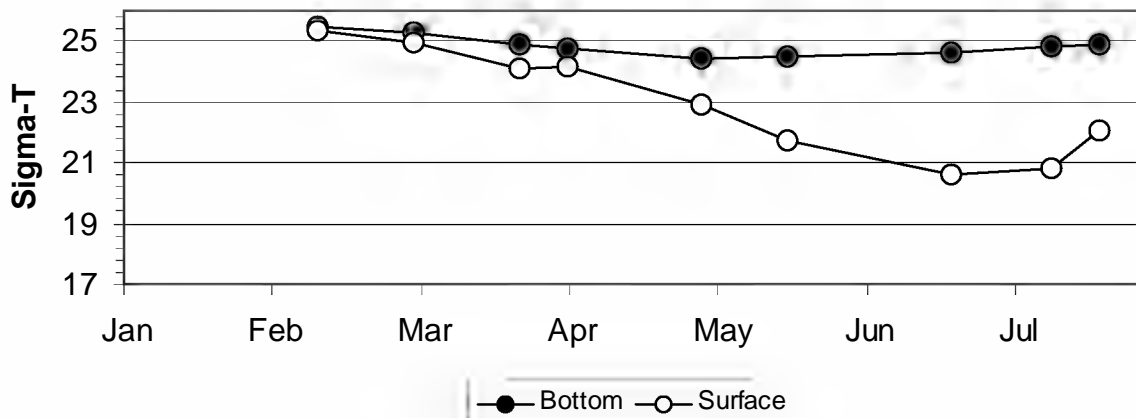


Figure 4-1. Time-Series of Average Surface and Bottom Water Density (σ_t) in the Nearfield

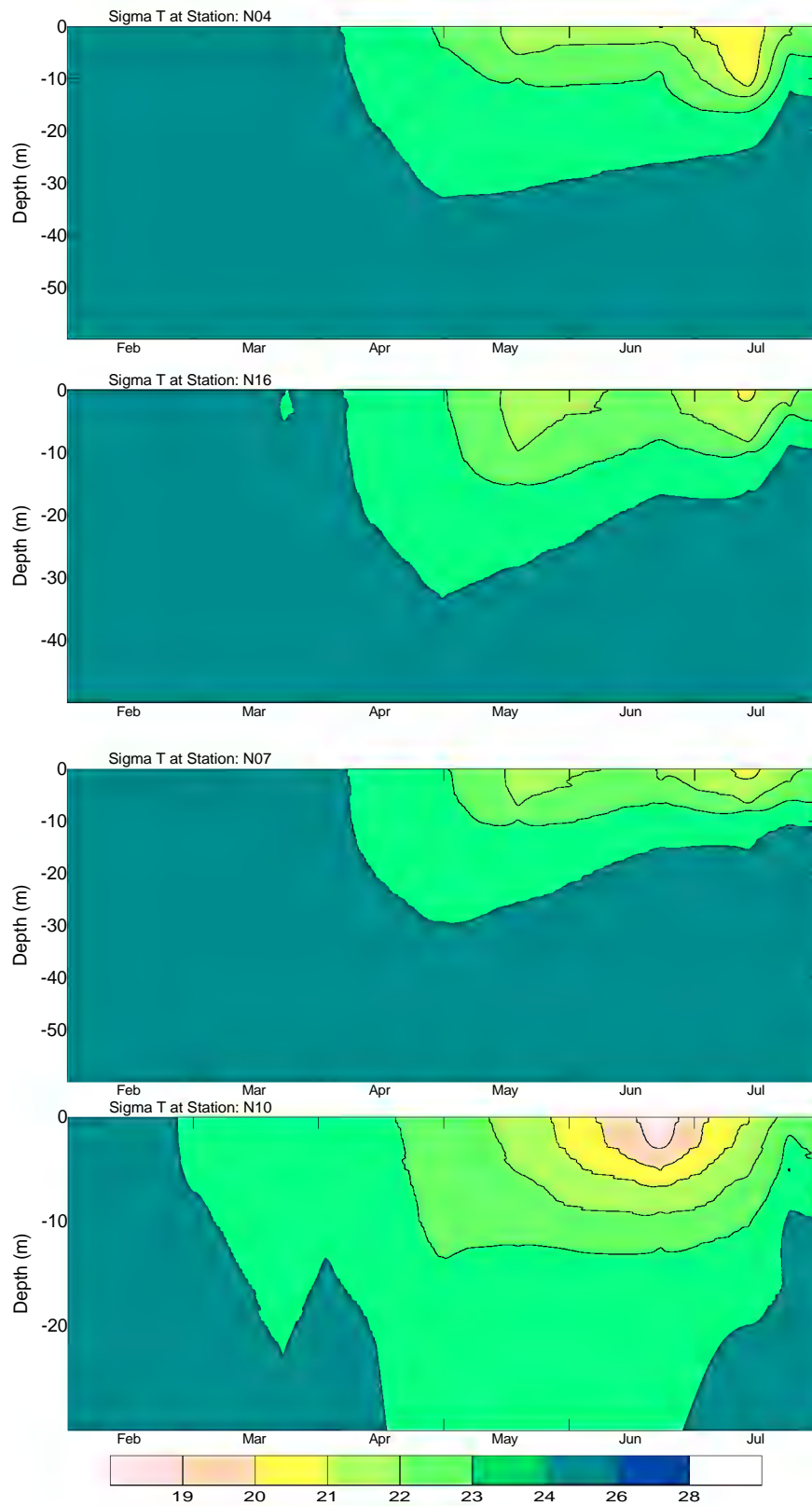


Figure 4-2. Sigma-T Nearfield Transect Depth vs. Time Contour Profiles for Surveys WF981 through WN989

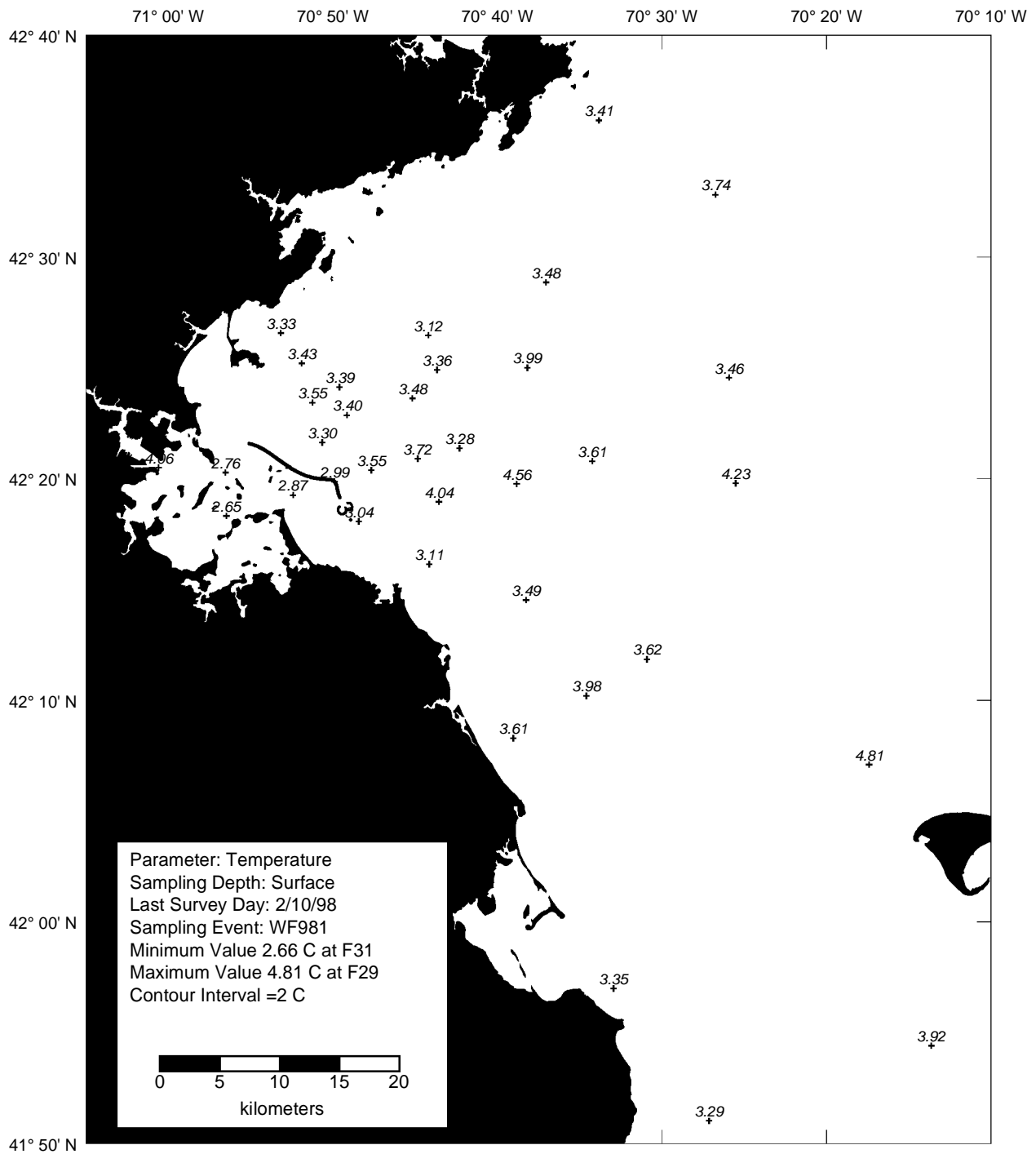


Figure 4-3. Temperature Surface Contour Plot for Farfield Survey WF981 (Feb 98)

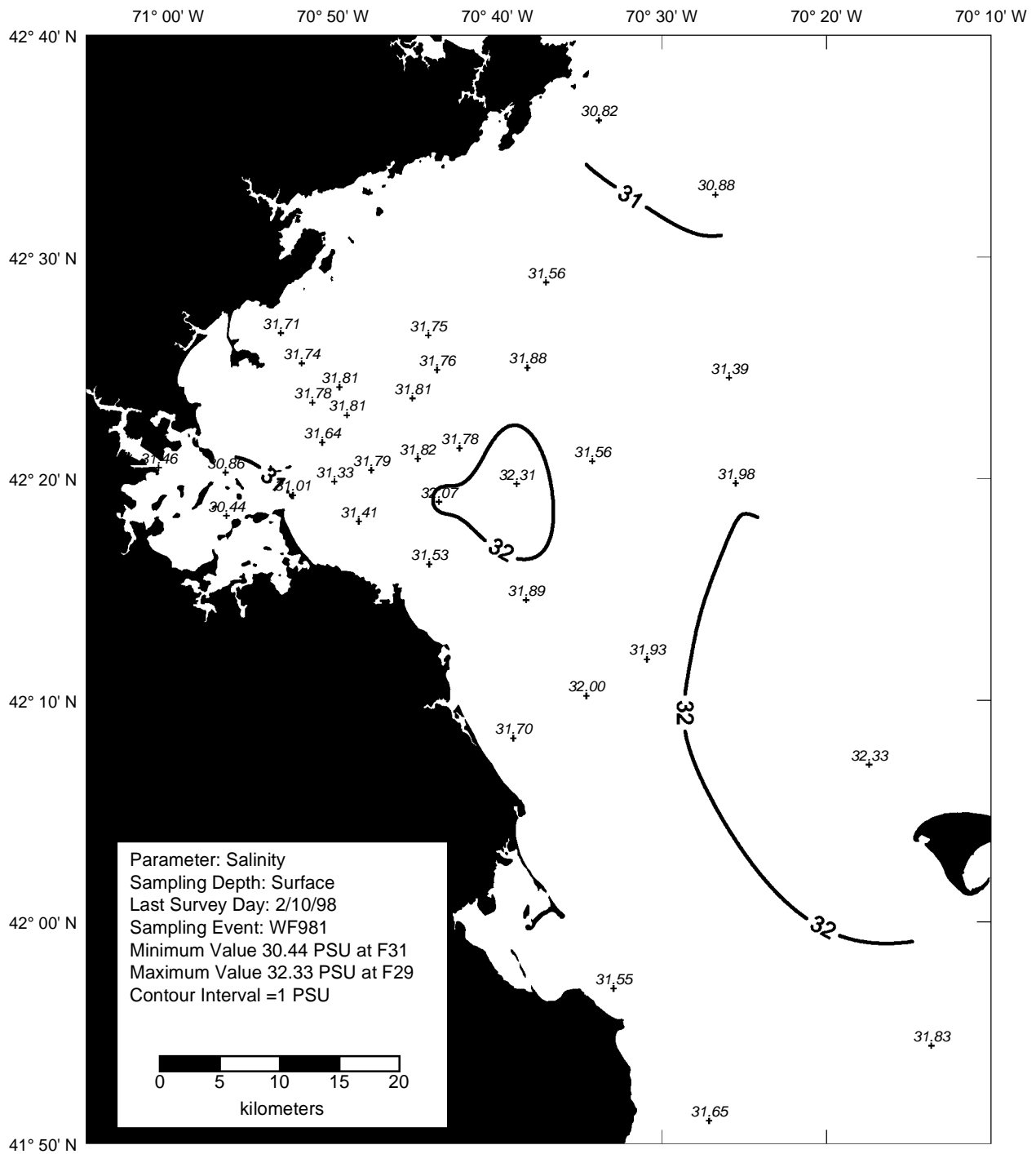


Figure 4-4. Salinity Surface Contour Plot for Farfield Survey WF981 (Feb 98).

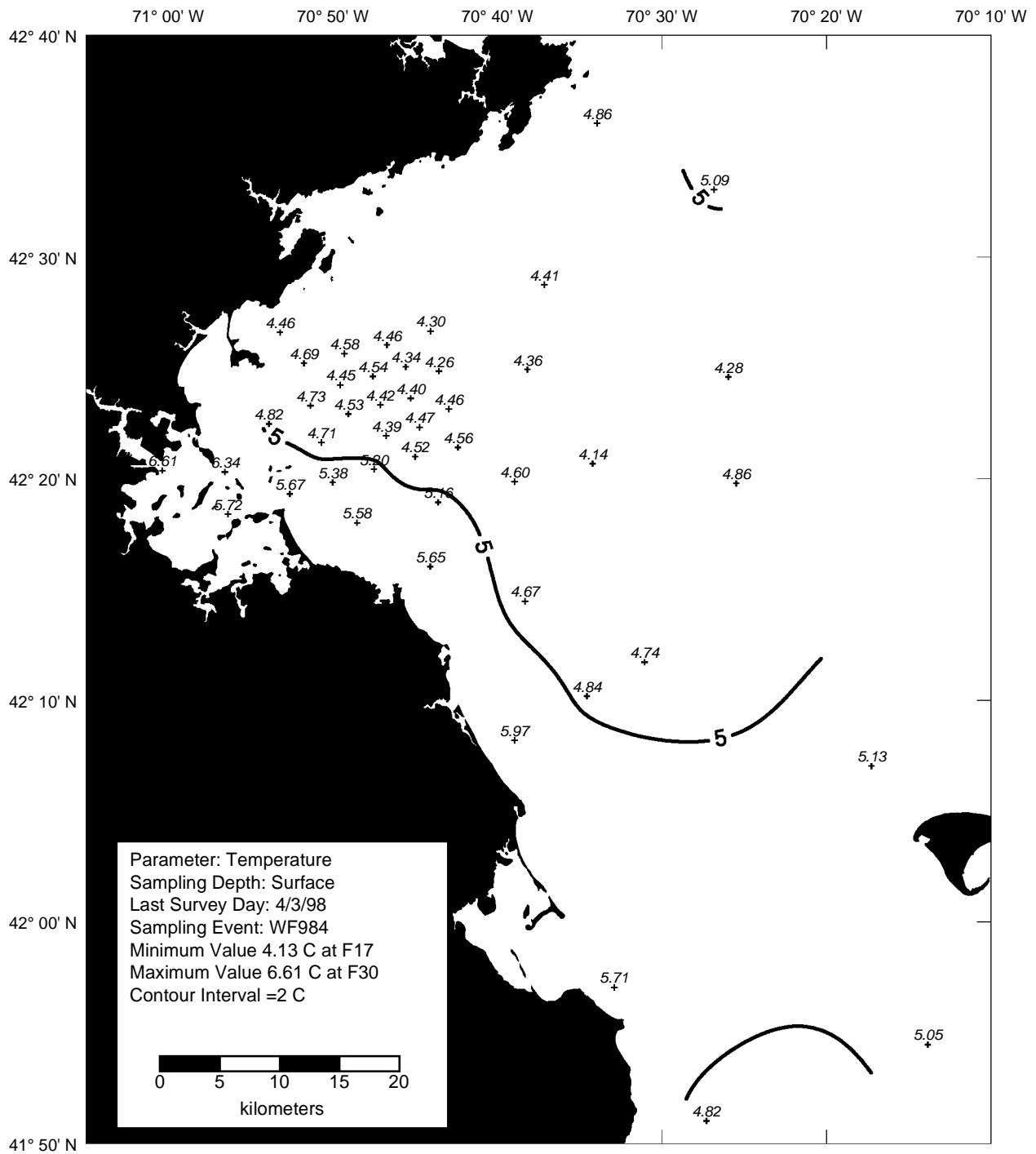


Figure 4-5. Temperature Surface Contour Plot for Farfield Survey WF984 (Apr 98)

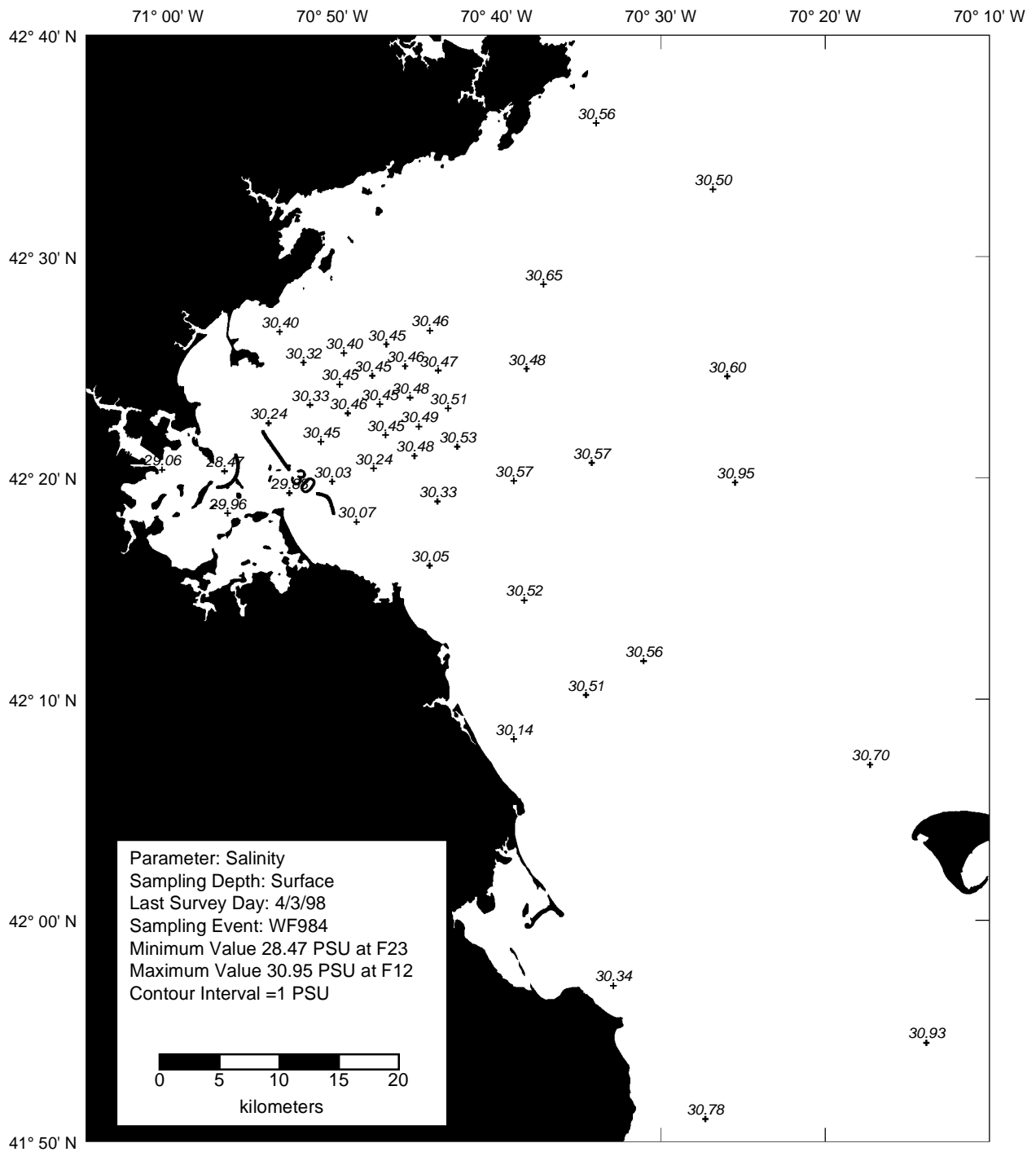
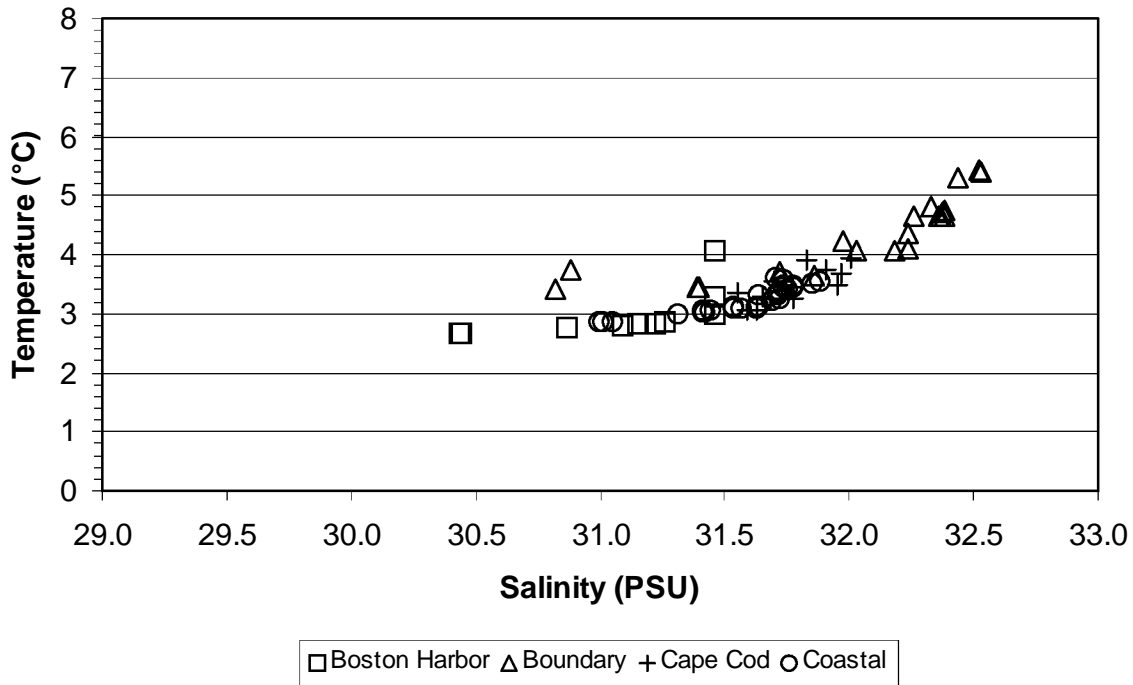


Figure 4-6. Salinity Surface Contour Plot for Farfield Survey WF984 (Apr 98)

(a) WF981: Early February



(b) WF984: April

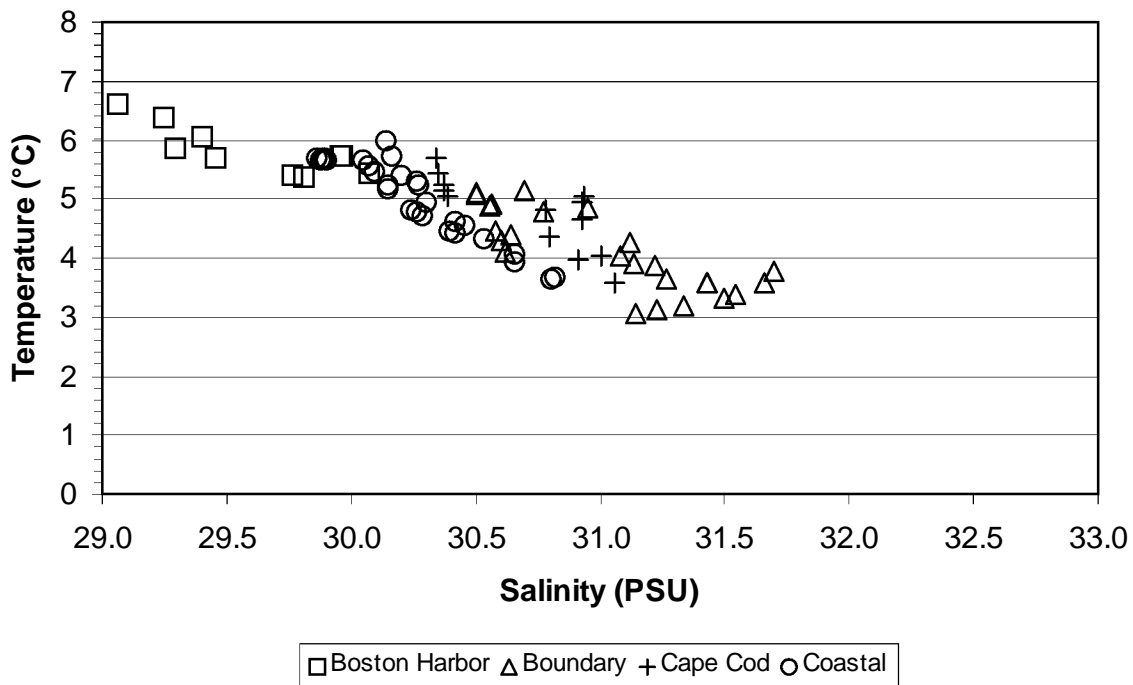


Figure 4-7. Temperature/Salinity Distribution for All Depths during WF981 (Feb 98) and WF984 (Apr 98) Surveys

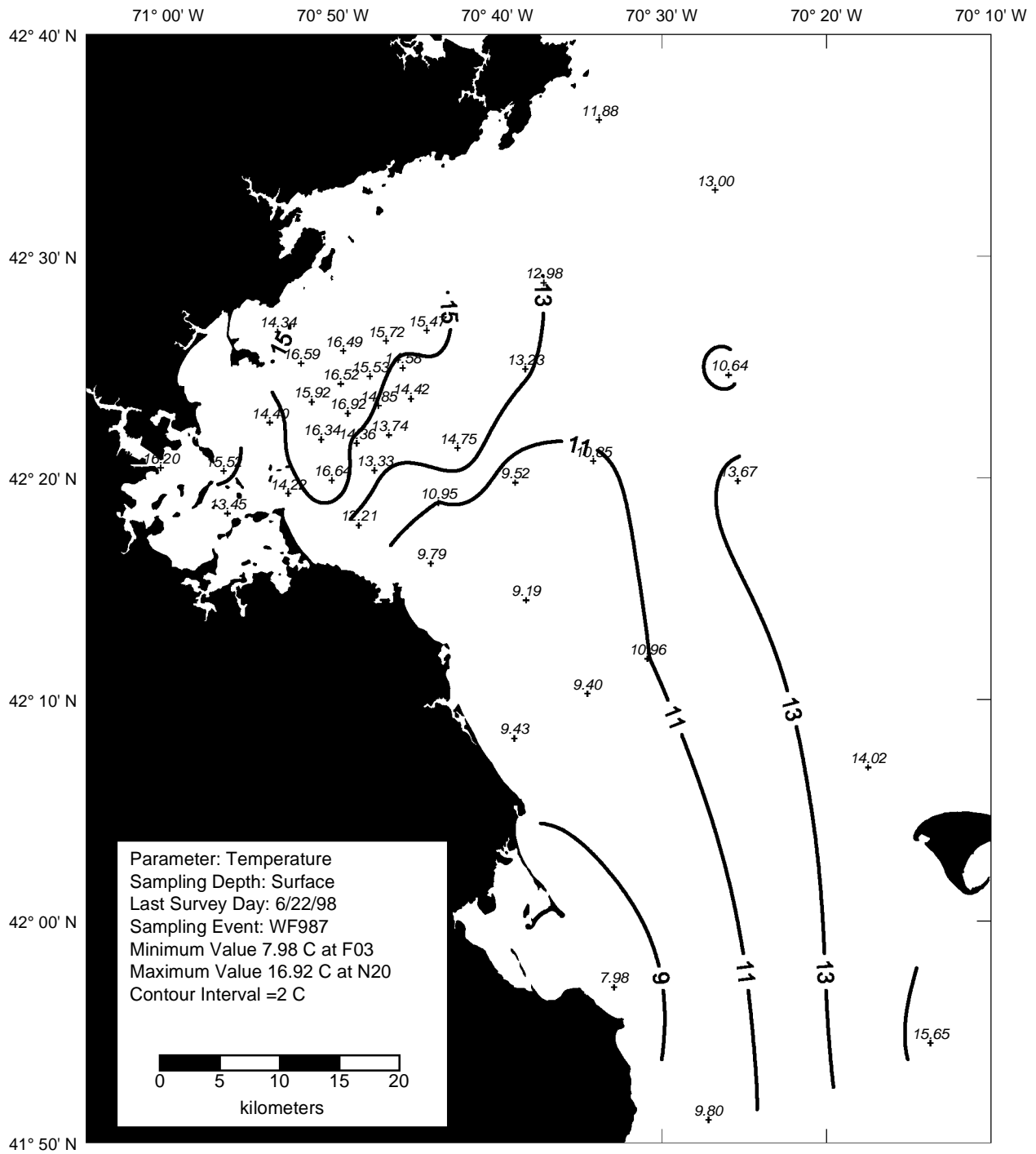


Figure 4-8. Temperature Surface Contour Plot for Farfield Survey WF987 (Jun 98)

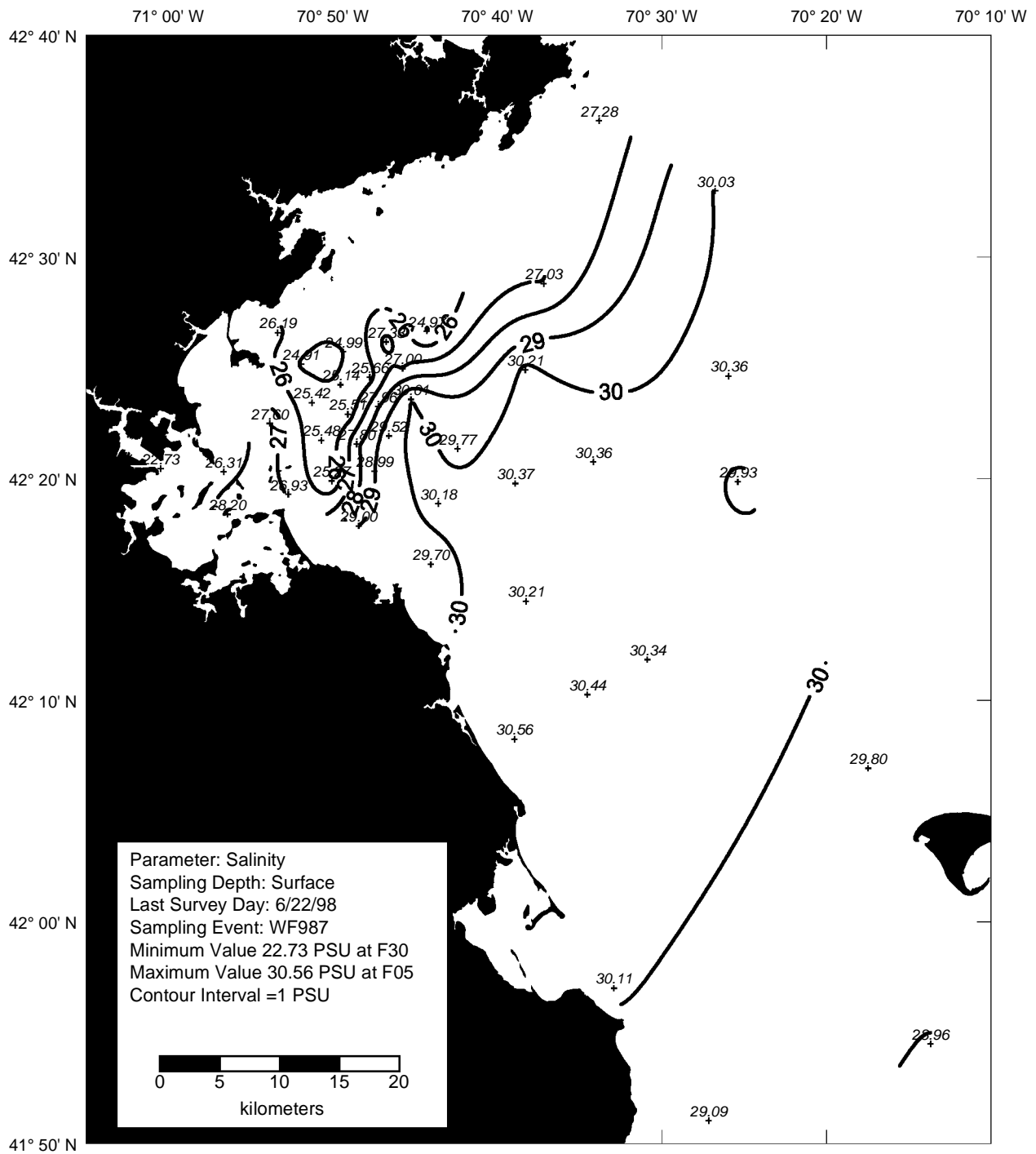
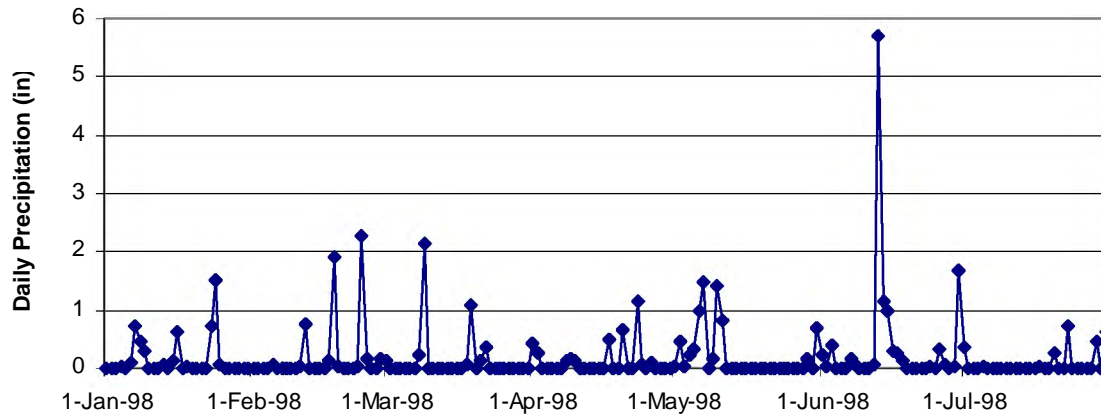
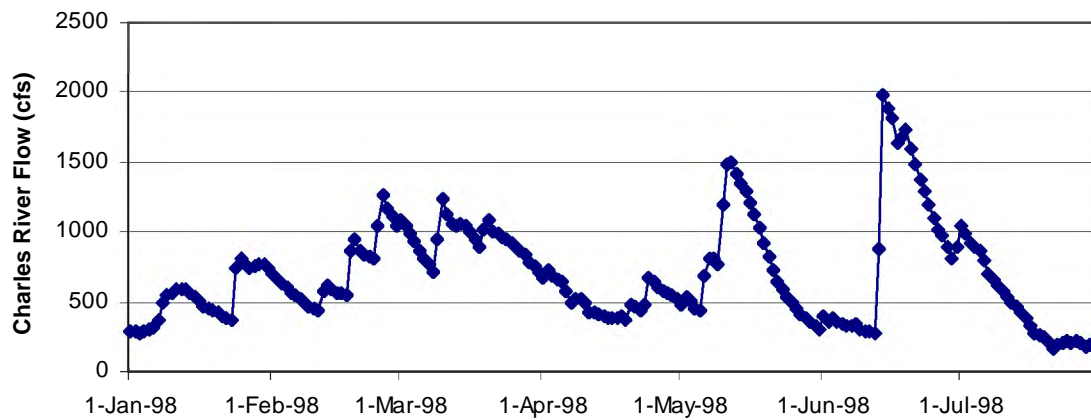


Figure 4-9. Salinity Surface Contour Plot for Farfield Survey WF987 (Jun 98)

(a) Boston's Logan Airport Daily Precipitation



(b) Charles River



(c) Merrimack River

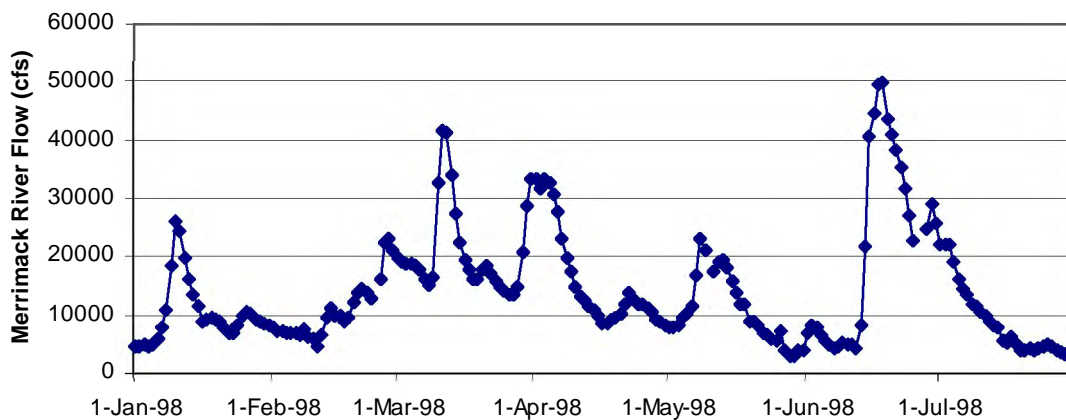


Figure 4-10. Precipitation at Logan Airport and River Discharges for the Charles and Merrimack Rivers

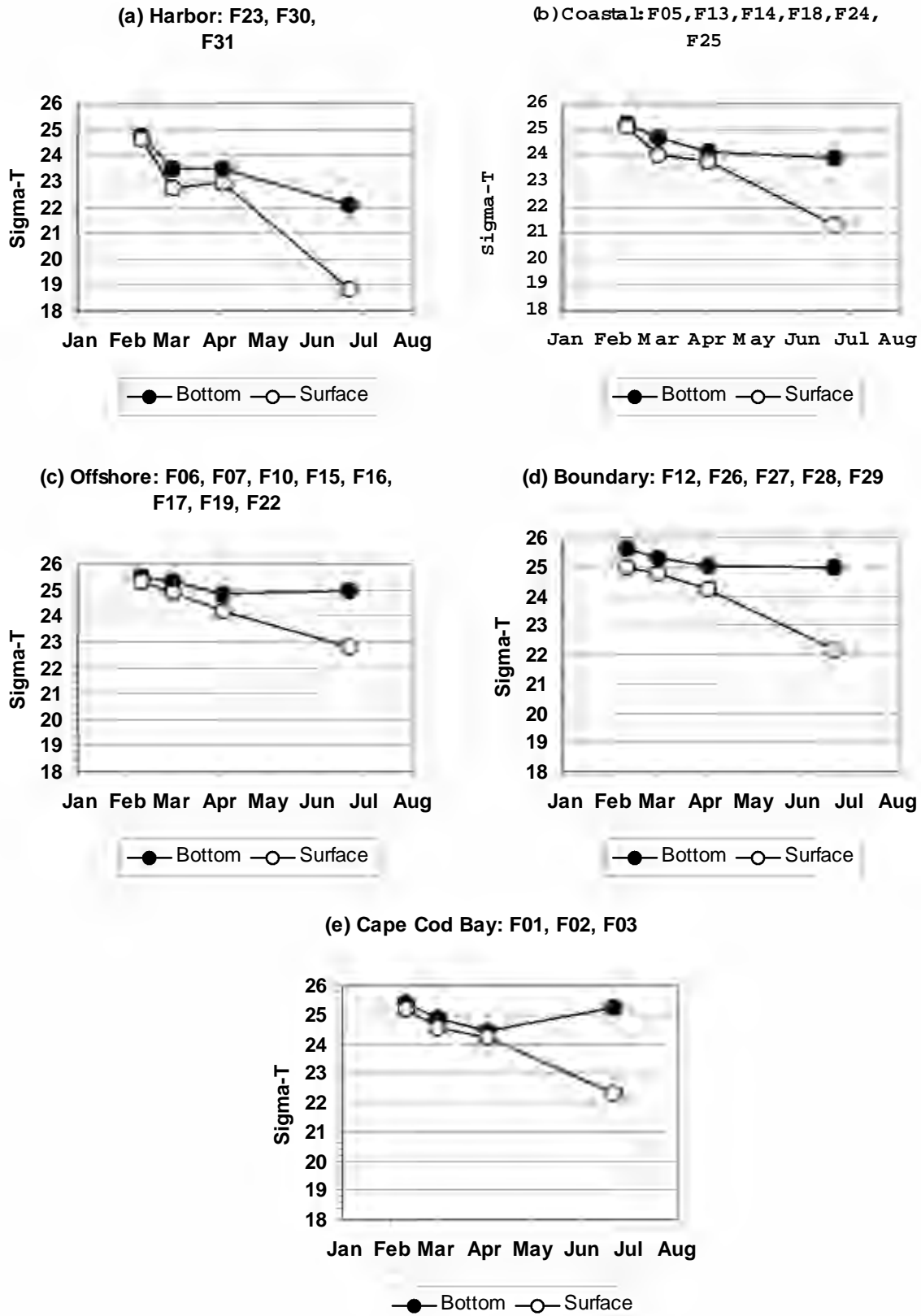


Figure 4-11. Time-Series of Average Surface and Bottom Water Density (σ_T) in the Farfield

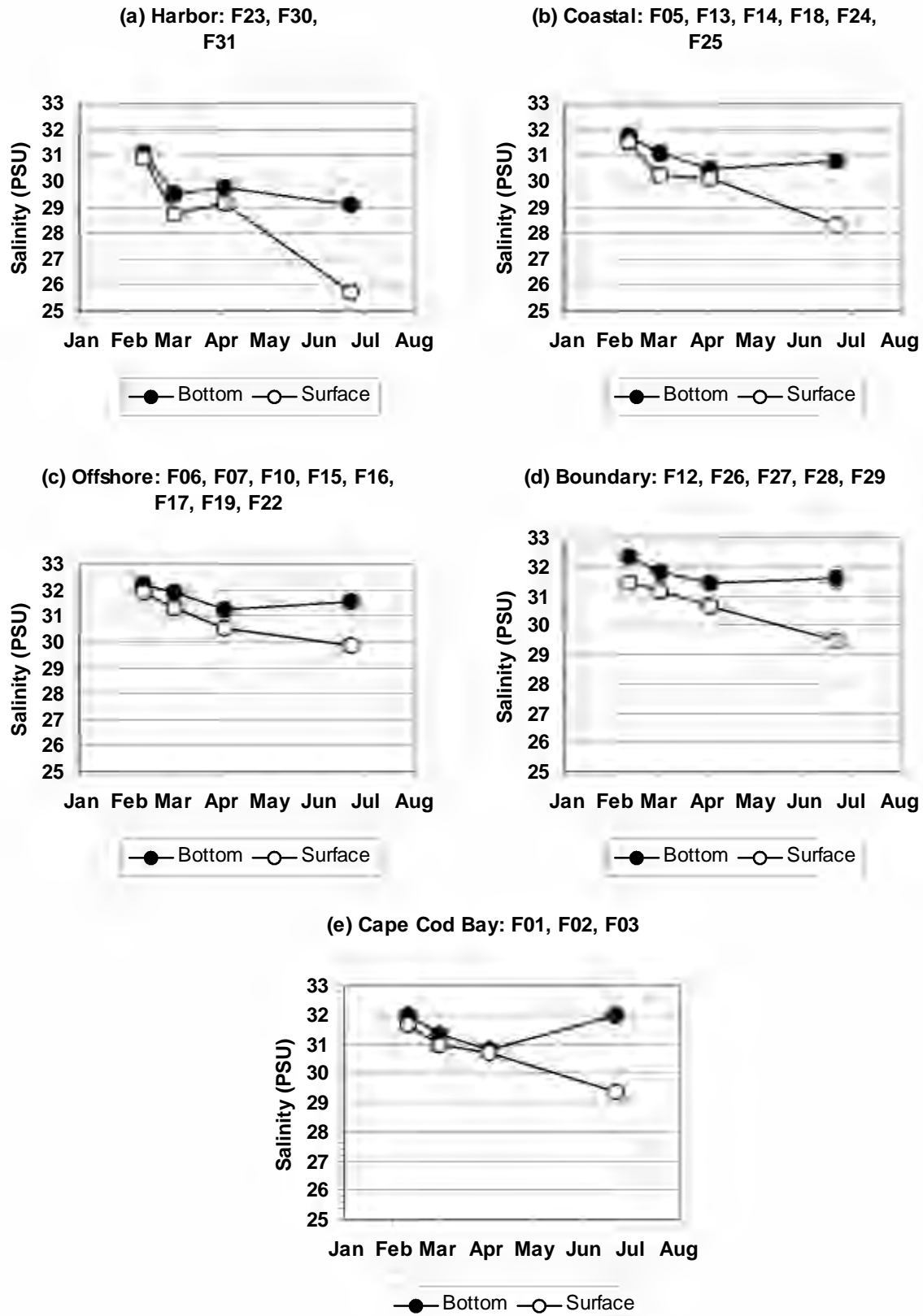


Figure 4-12. Time-Series of Average Surface and Bottom Water Salinity (PSU) in the Farfield

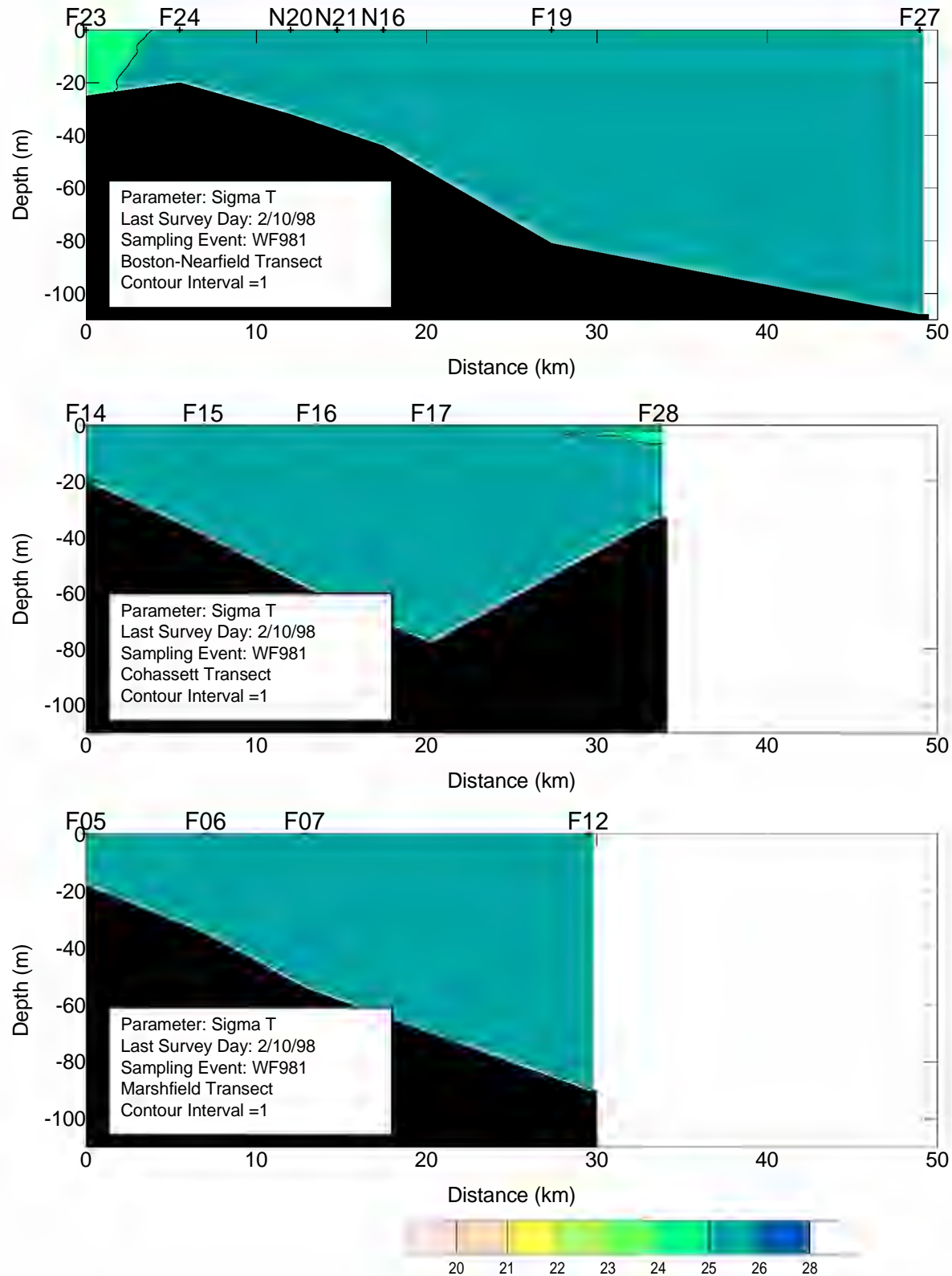


Figure 4-13. Sigma-T Vertical Transects for Farfield Survey WF981 (Feb 98)

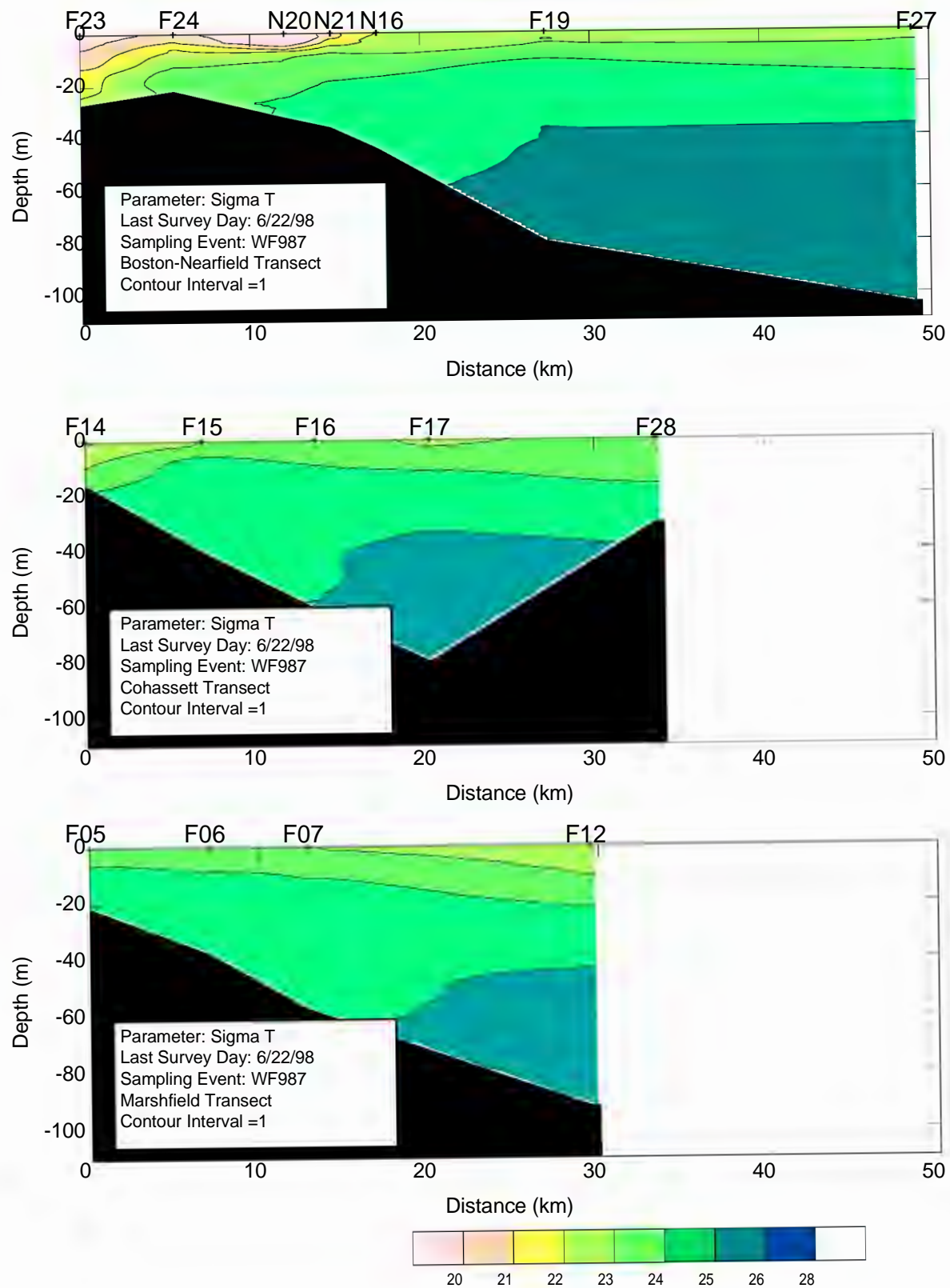


Figure 4-14. Sigma-T Vertical Transect for Farfield Survey WF987 (Jun 98)

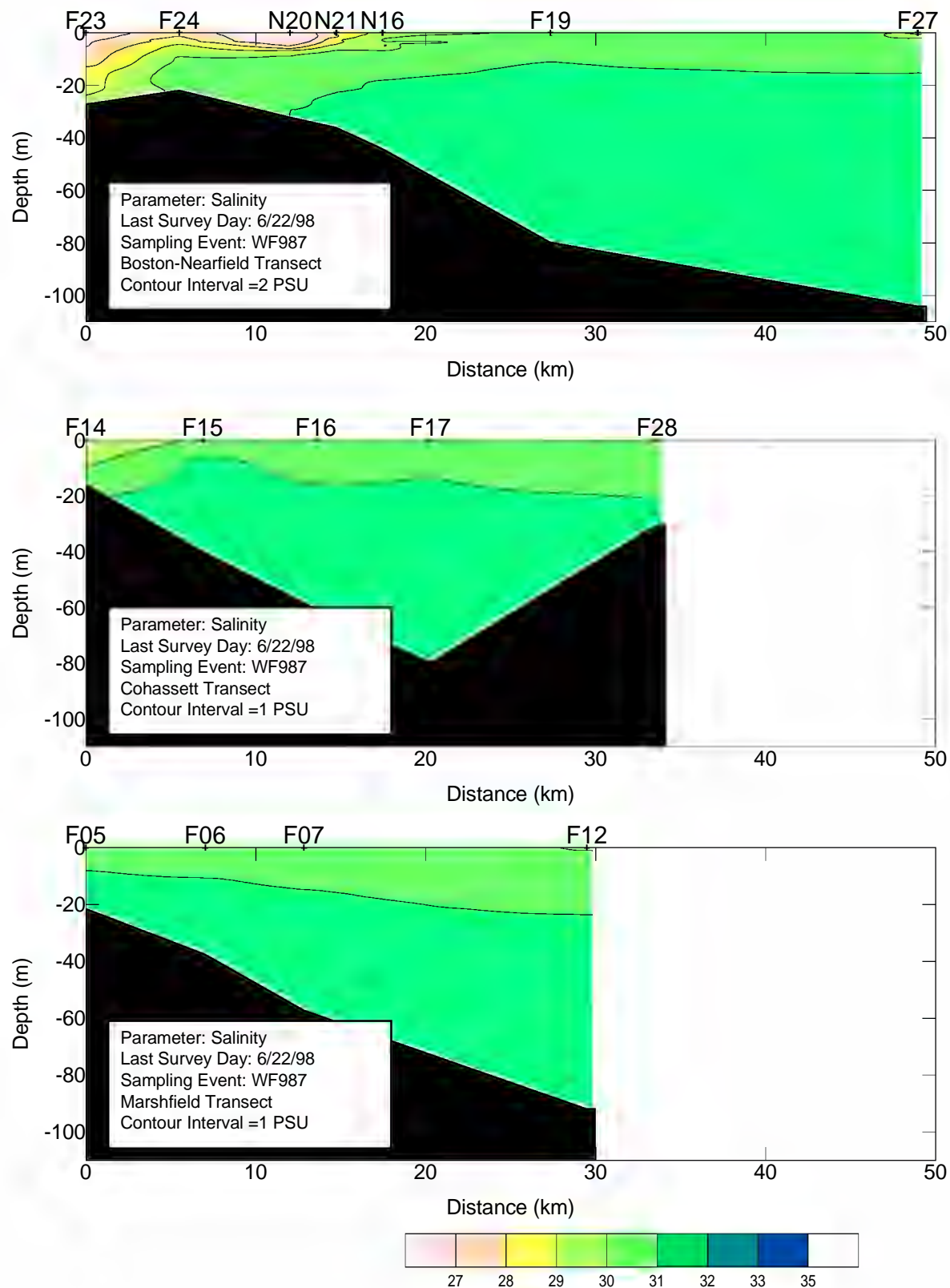


Figure 4-15. Salinity Vertical Transect for Farfield Survey WF987 (Jun 98)

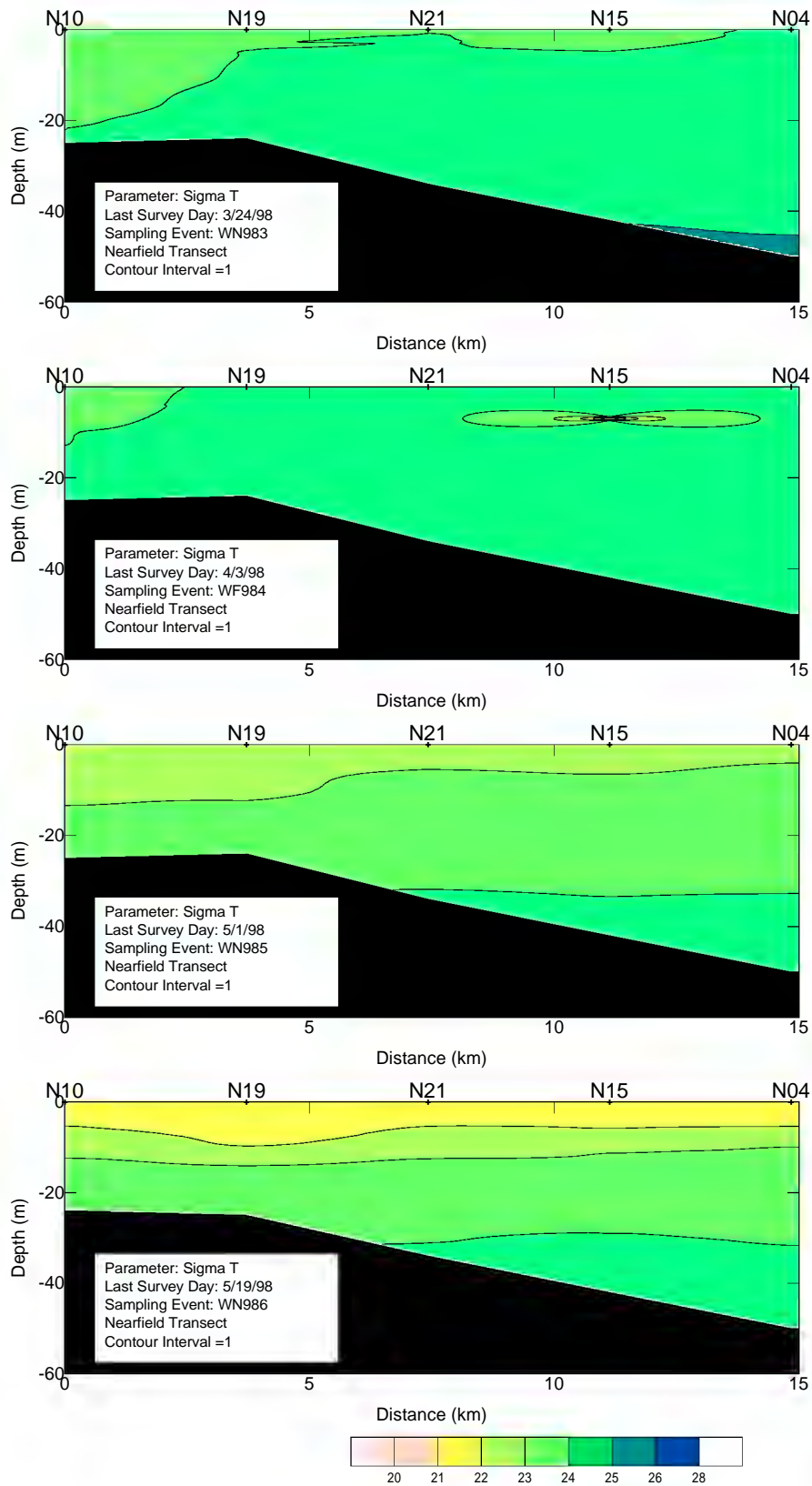
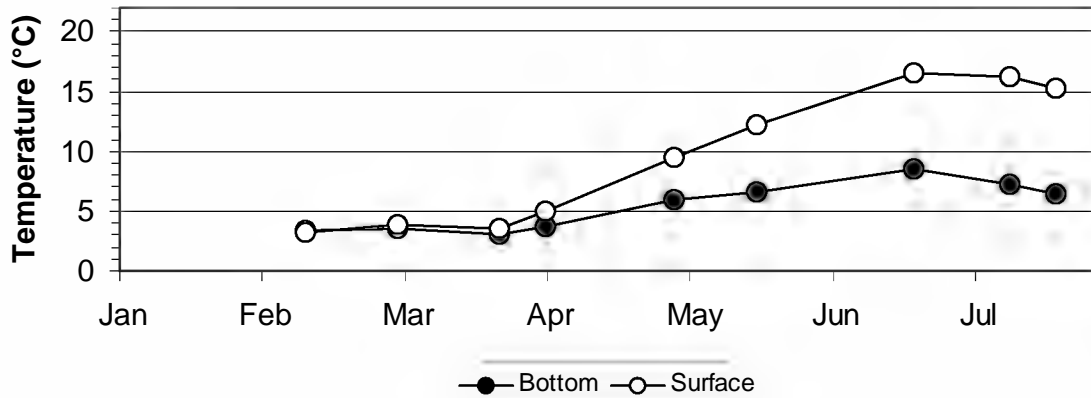
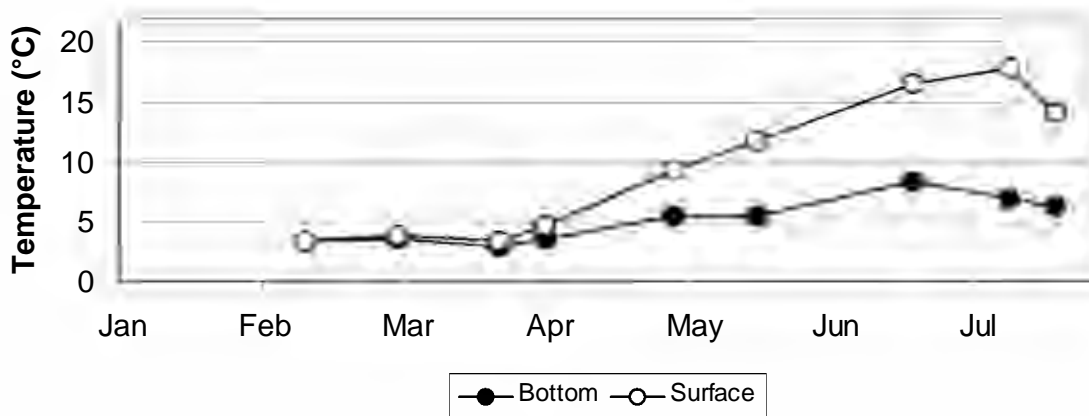


Figure 4-16. Sigma-T Vertical Nearfield Transects for Survey WN983, WF984, WN985 and WN986

(a) Inner Nearfield: N10, N11



(b) Broad Sound: N01



(c) Outer Nearfield: N04, N07, N16, N20

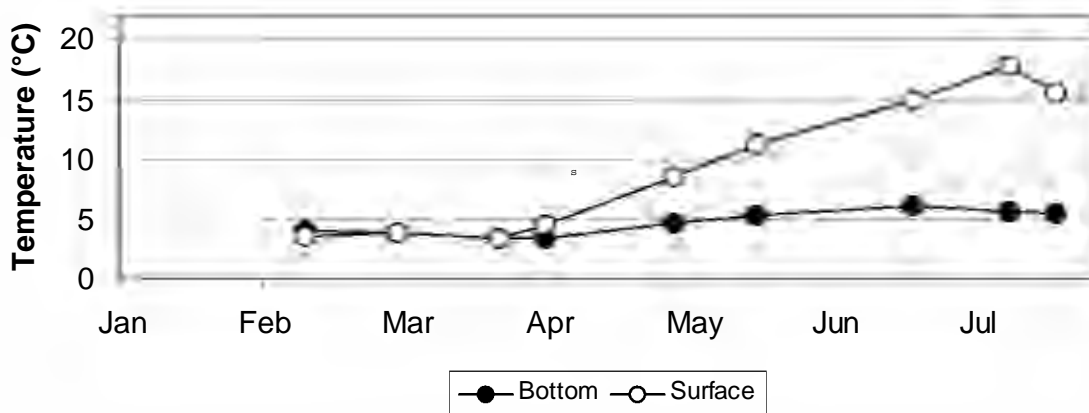


Figure 4-17. Time-Series of Average Surface and Bottom Temperature (°C) in the Nearfield

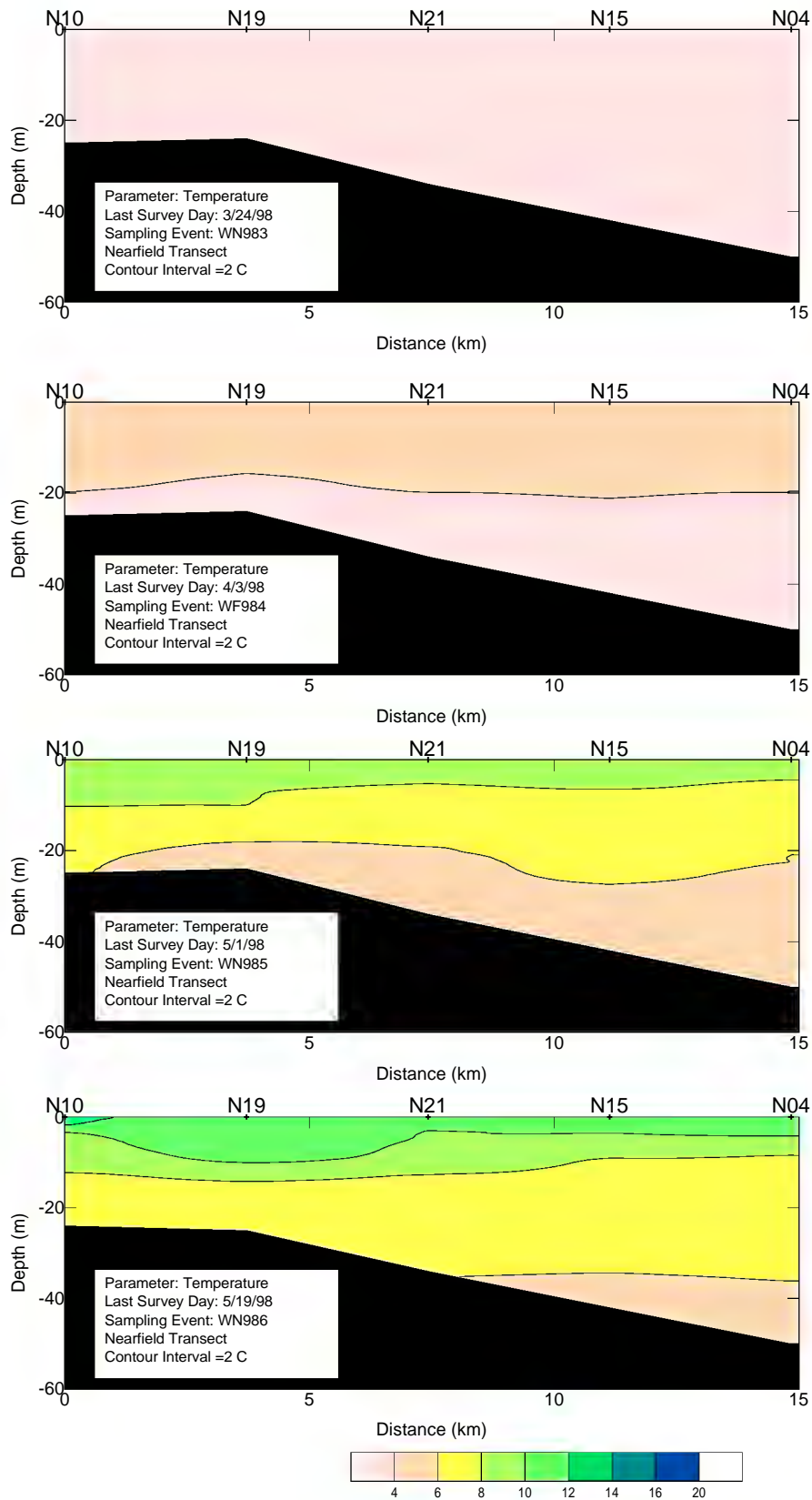
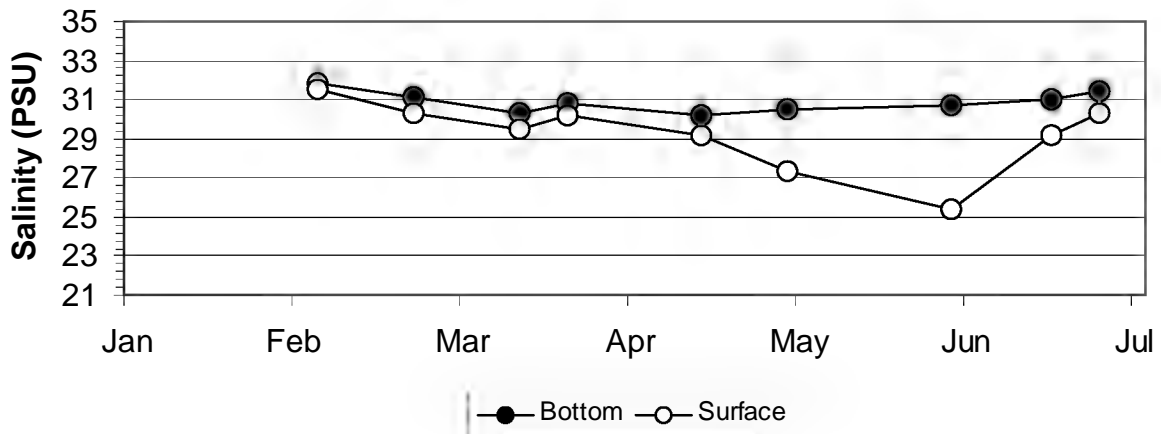
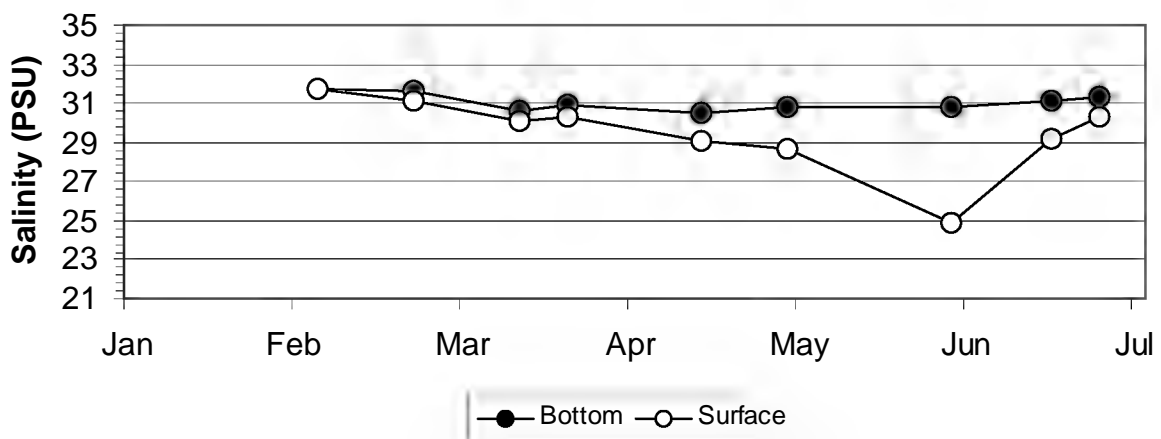


Figure 4-18. Temperature Vertical Nearfield Transects for Survey WN983, WF984, WN985 and WN986

(a) Inner Nearfield: N10, N11



(b) Broad Sound: N01



(c) Outer Nearfield: N04, N07, N16, N20

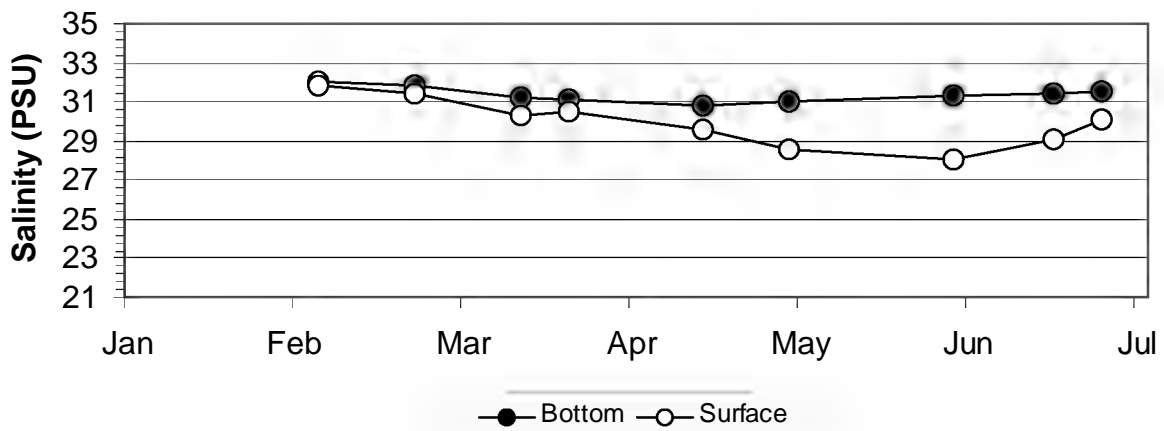


Figure 4-19. Time-Series Plots of Average Surface and Bottom Salinity in the Nearfield

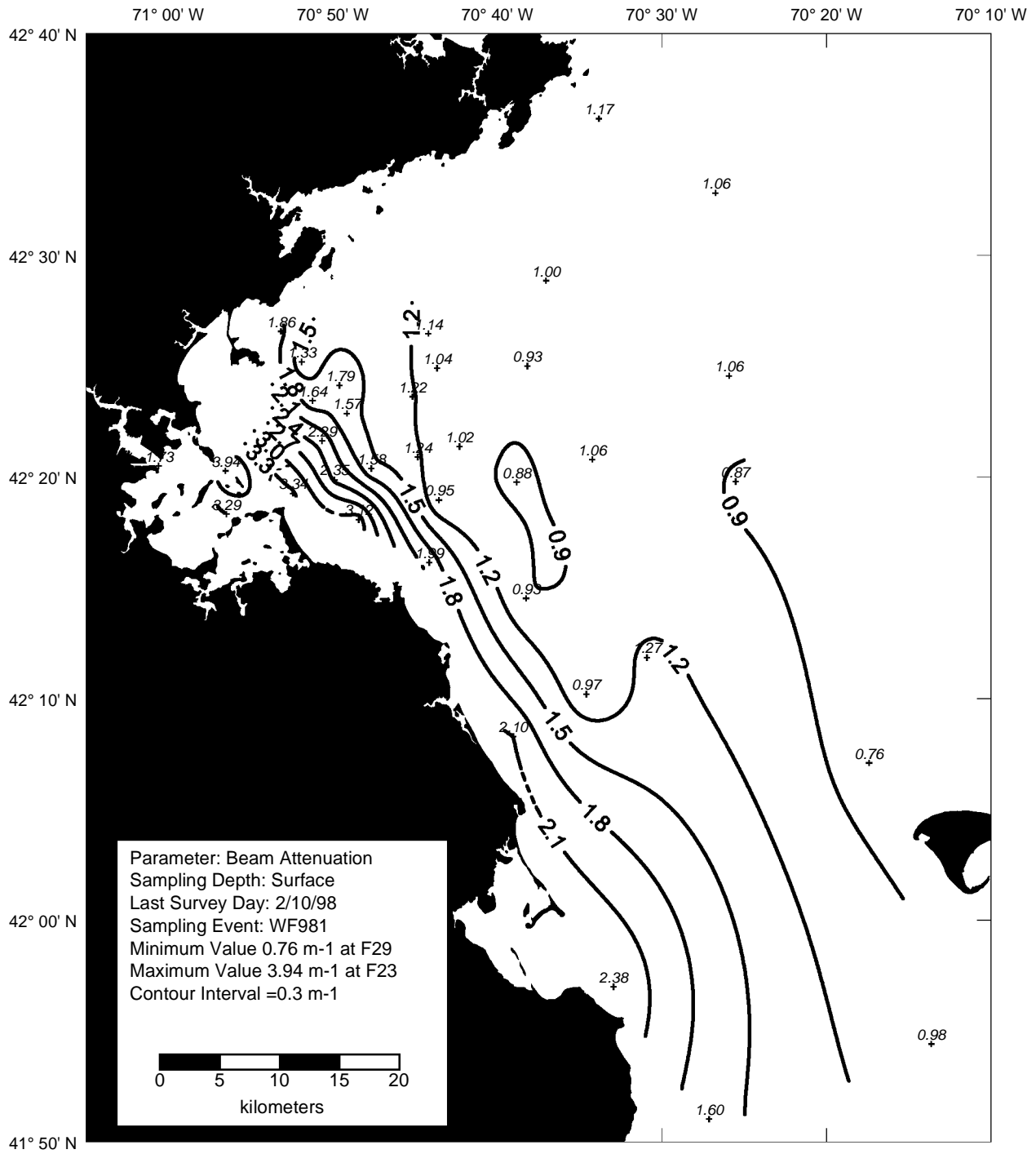


Figure 4-20. Beam Attenuation Surface Contour Plot for Farfield Survey WF981 (Feb 98)

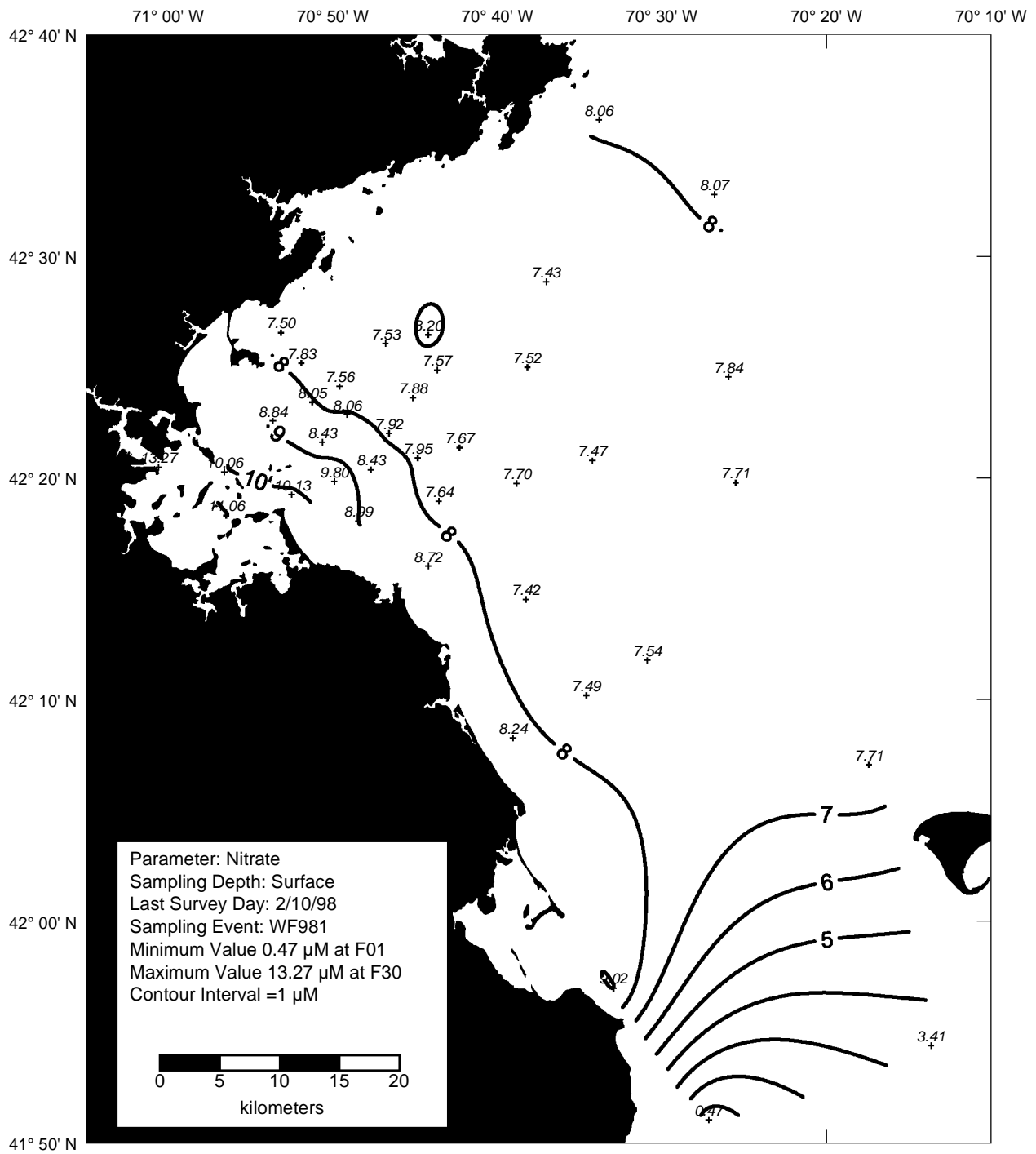


Figure 4-21. Nitrate Surface Contour Plot for Farfield Survey WF981 (Feb 98)

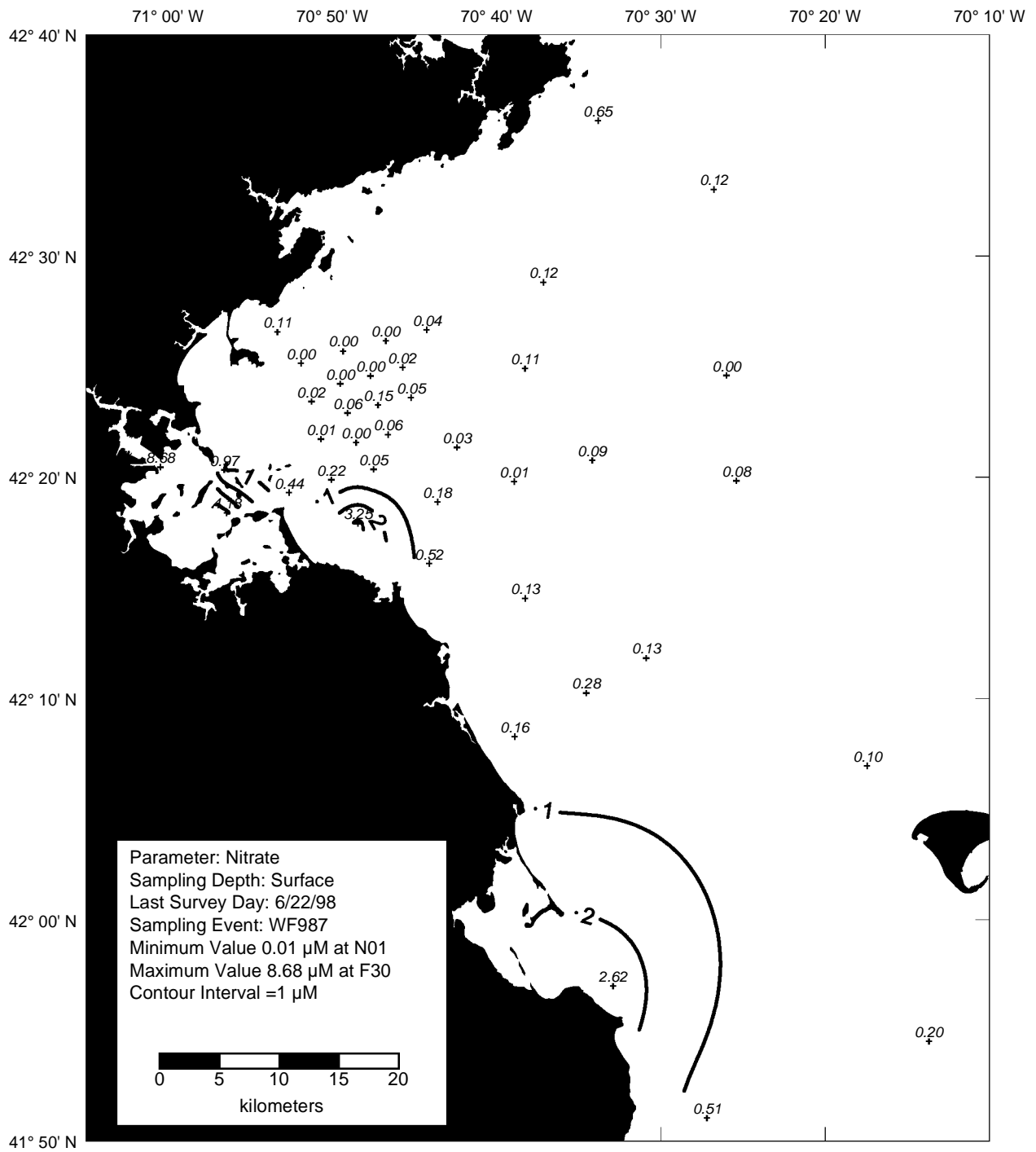


Figure 4-22. Nitrate Surface Contour Plot for Farfield Survey WF987 (Jun 98)

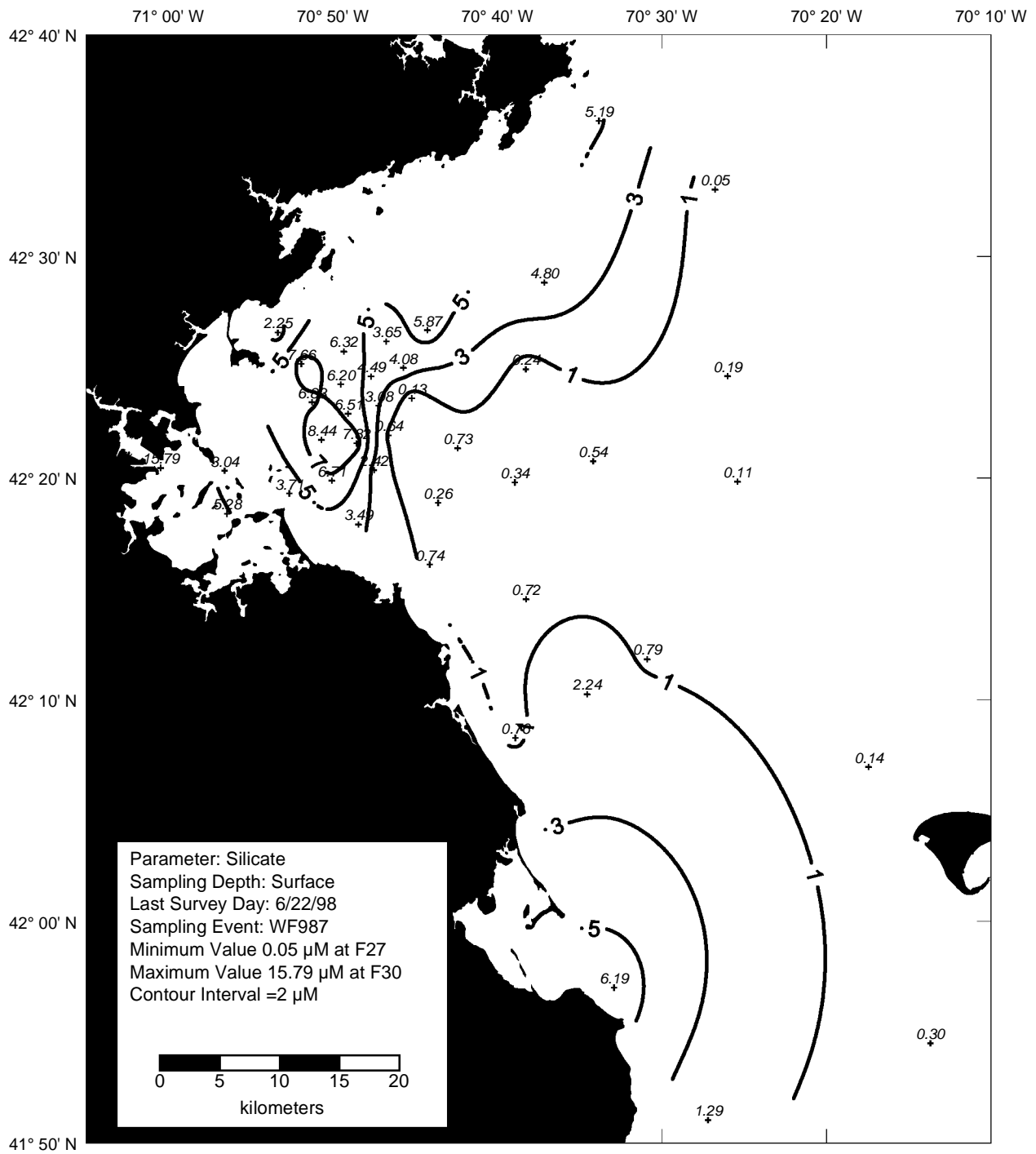


Figure 4-23. Silicate Surface Contour Plot for Farfield Survey WF987 (Jun 98)

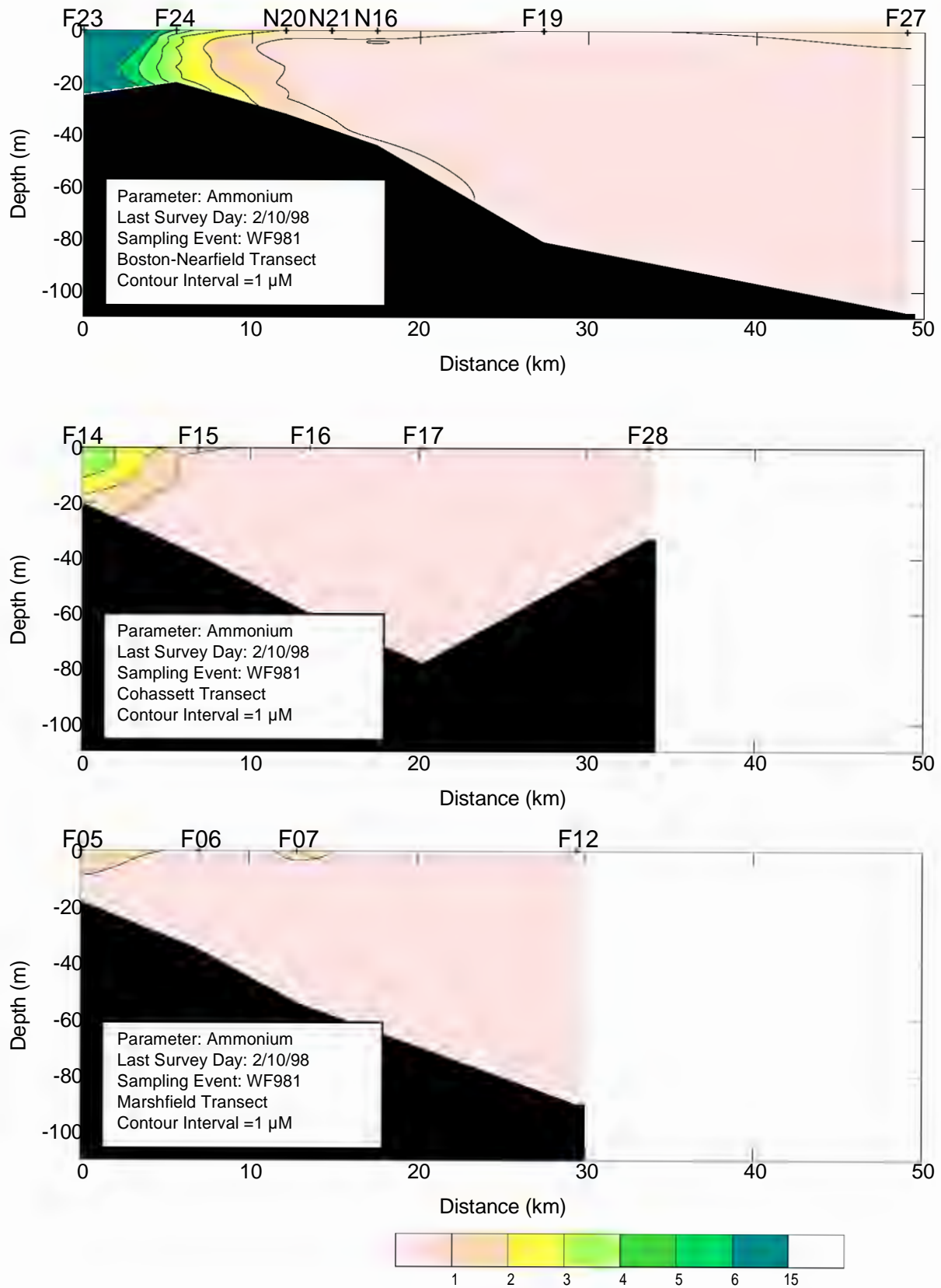


Figure 4-24. Ammonium Vertical Transect Plots for Farfield Survey WF981 (Feb 98)

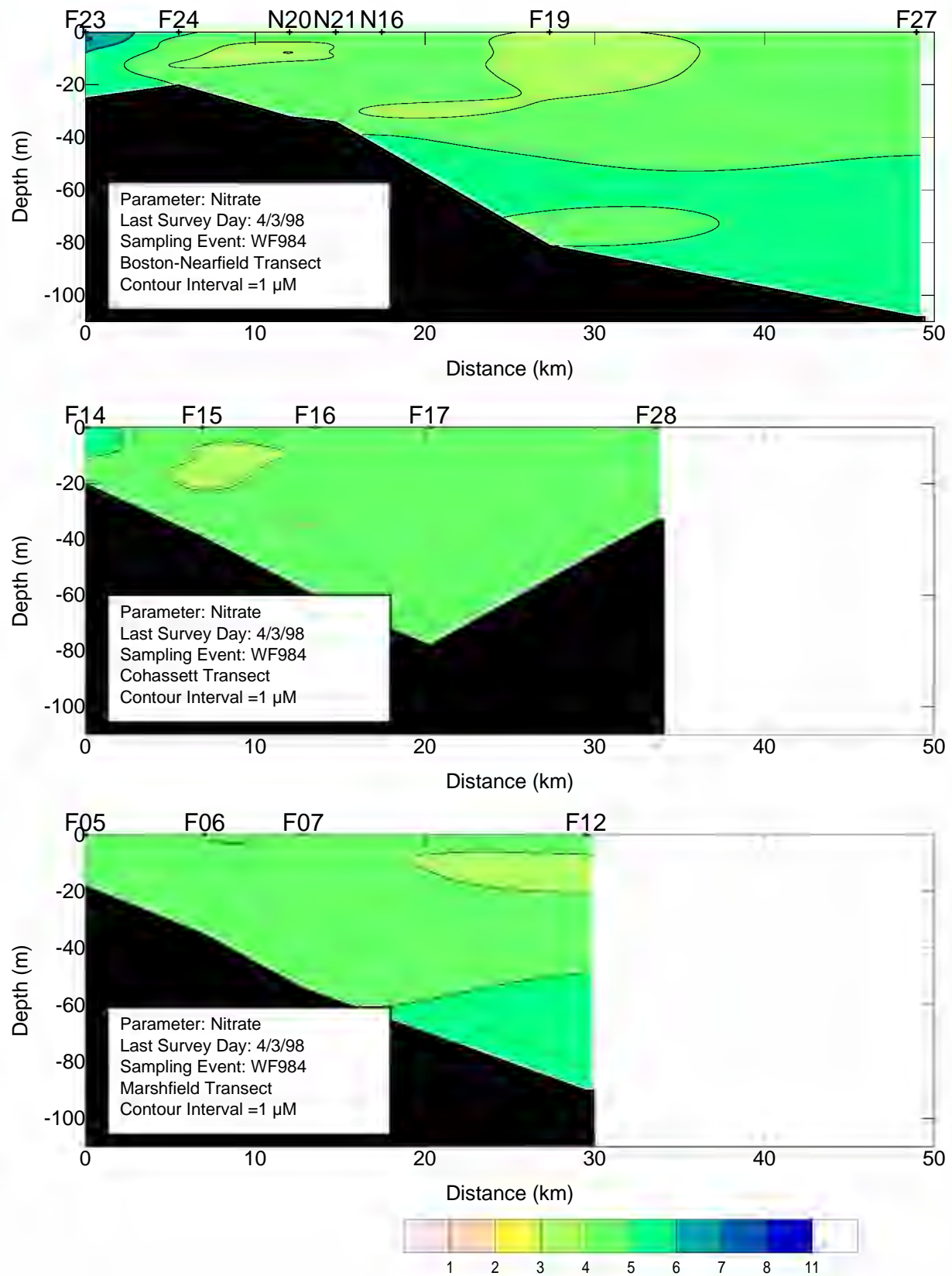


Figure 4-25. Nitrate Vertical Transect Plots for Farfield Survey WF984 (Apr 98)

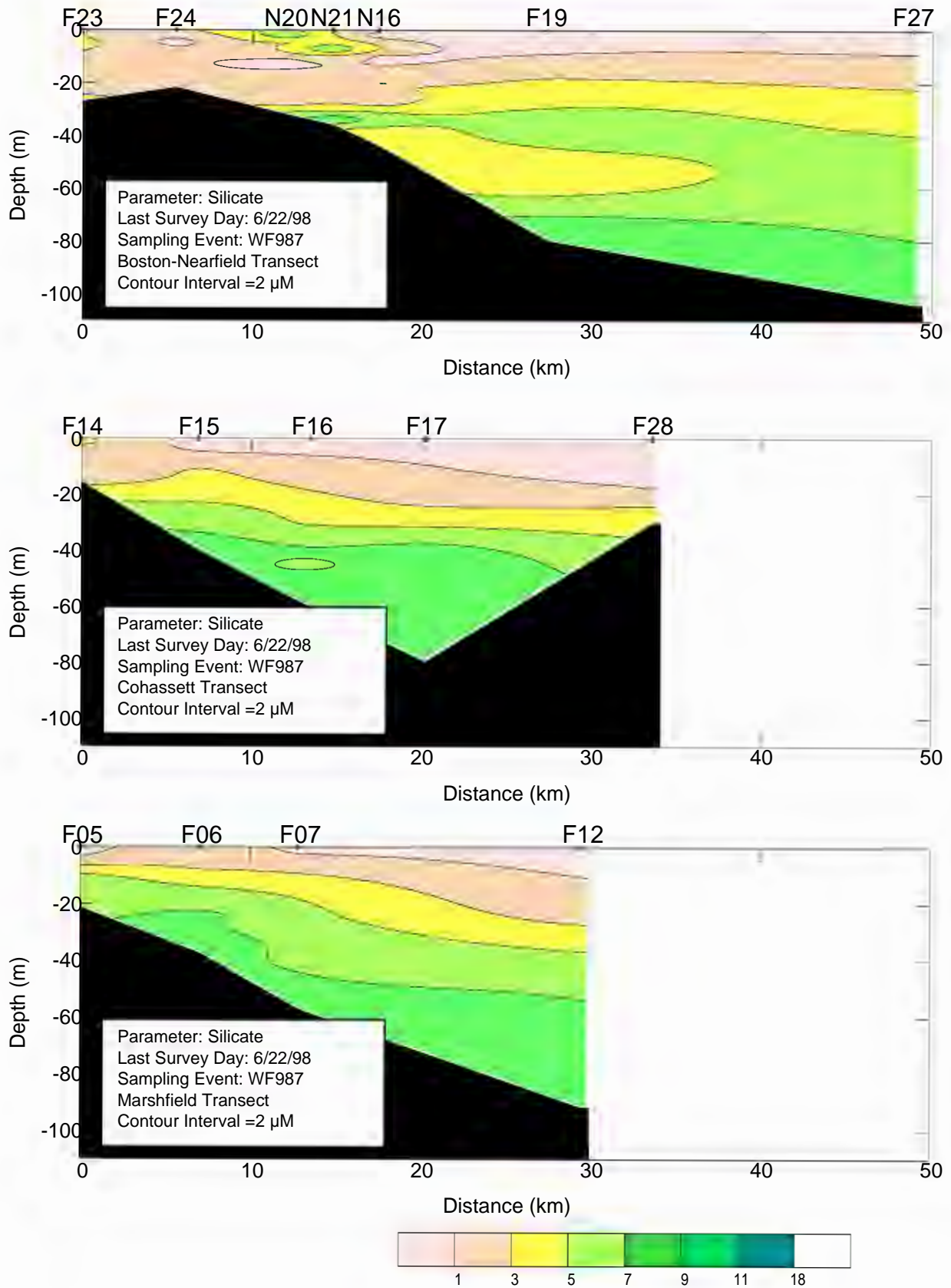
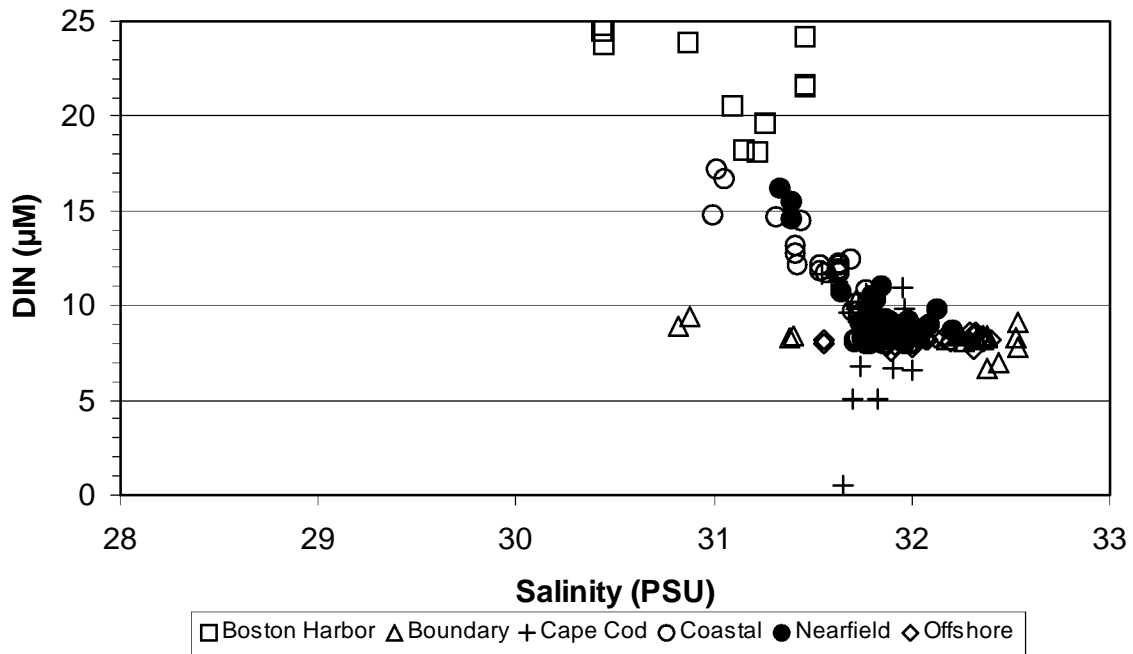


Figure 4-26. Silicate Vertical Transect Plots for Farfield Survey WF987 (Jun 98)

(a) WF981



(b) WF984

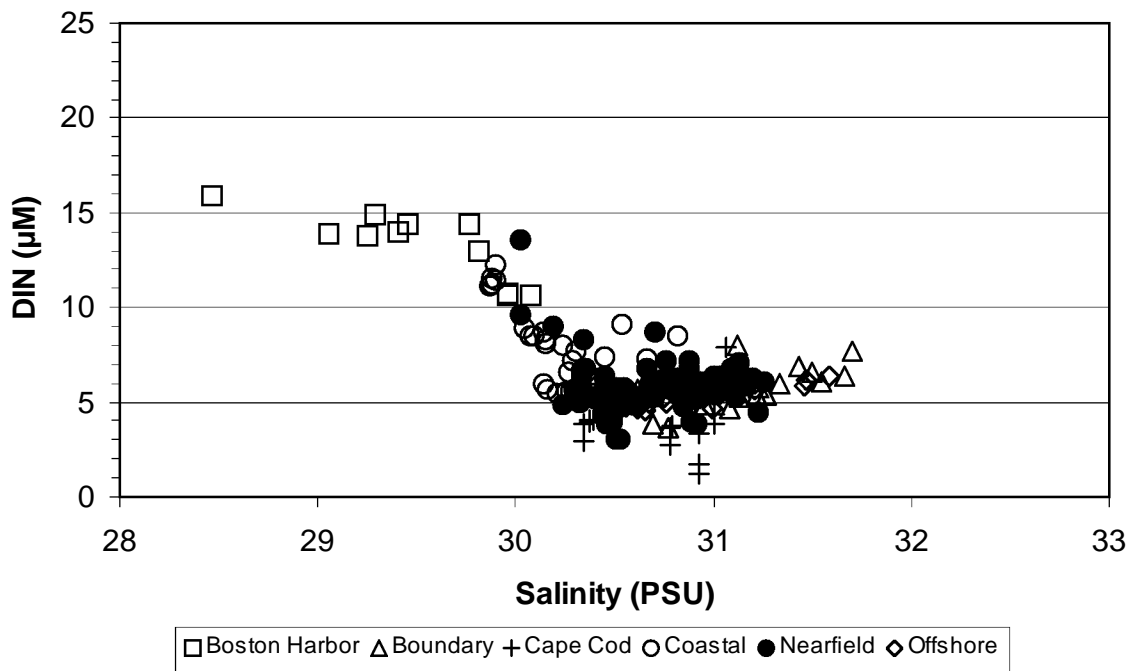


Figure 4-27. DIN vs. Salinity for All Depths During Three Farfield Surveys (WF981, WF984, and WF987)

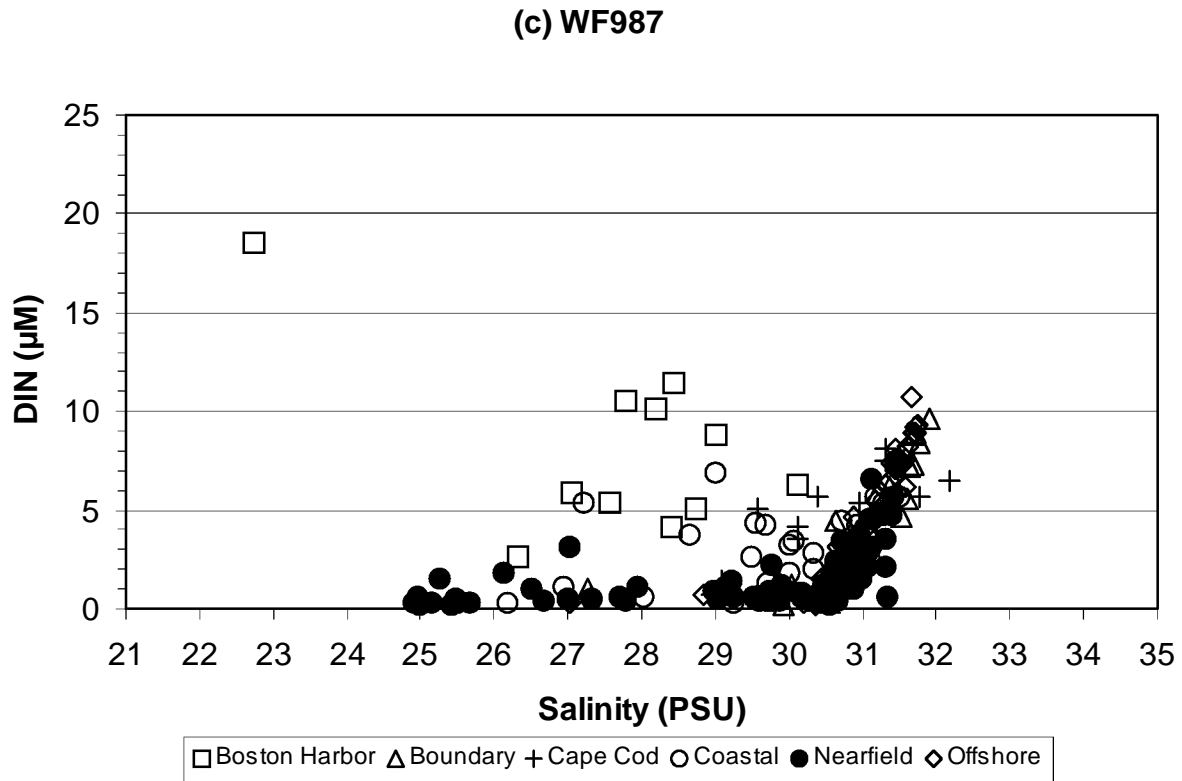


Figure 4-27 (Cont.). DIN vs. Salinity for All Depths During Three Farfield Surveys (WF981, WF984, and WF987)

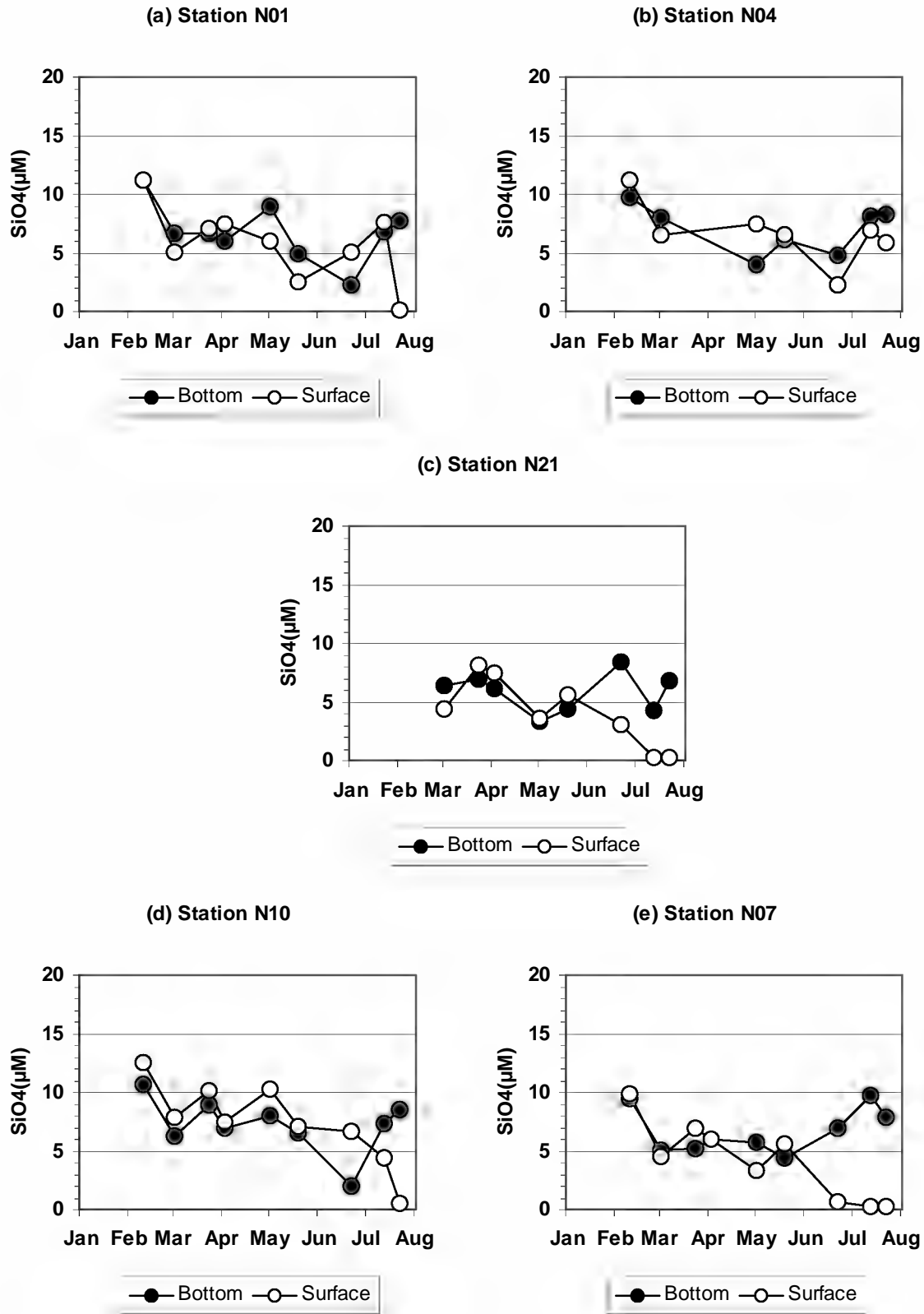


Figure 4-28. Time-Series of Surface and Bottom Water Silicate Concentration in Five Nearfield Stations Note: The arrangement of the figures on this page mimic the relative positions of the stations.

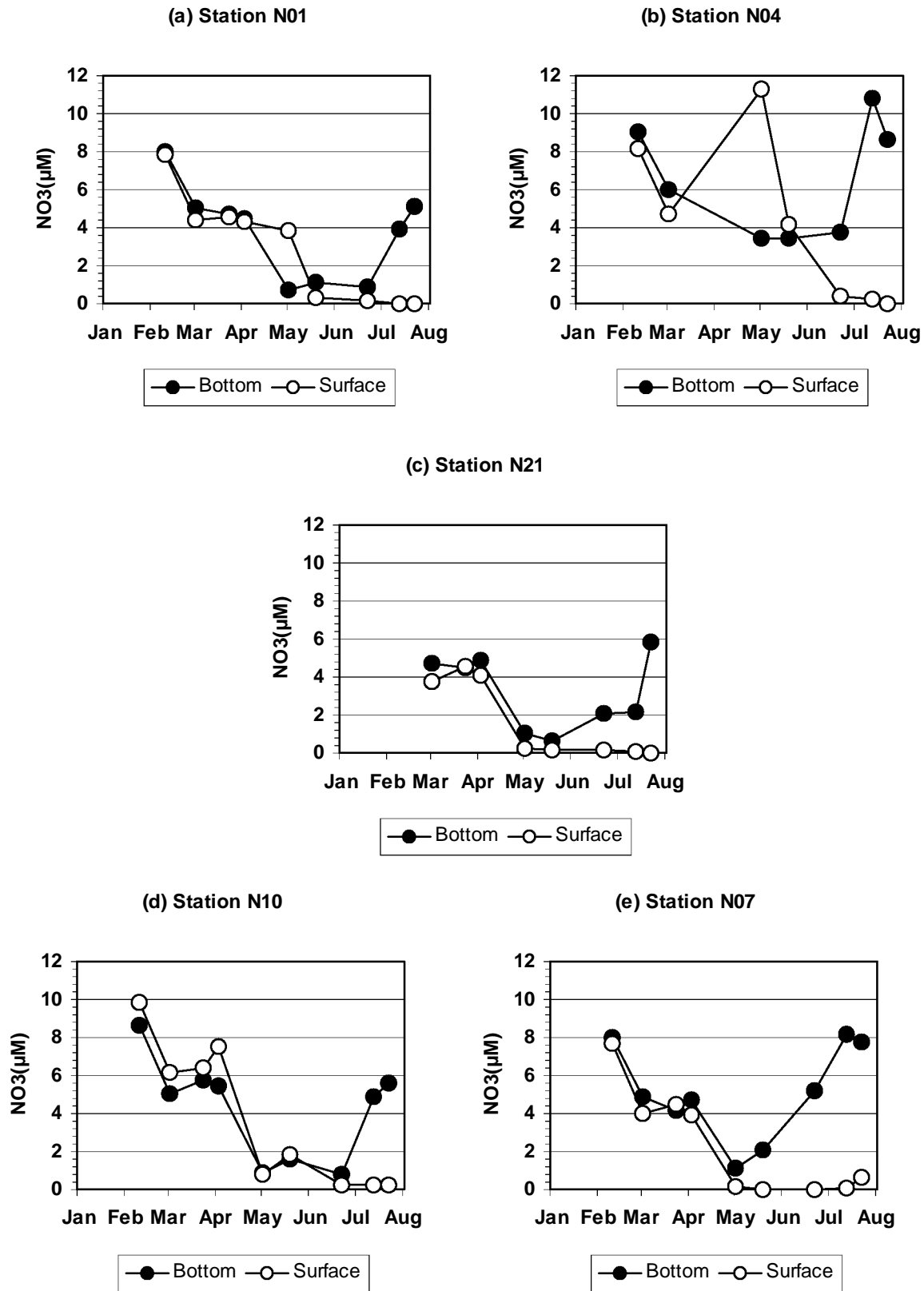


Figure 4-29. Time-Series of Surface and Bottom Water Nitrate Concentration in Five Nearfield Stations

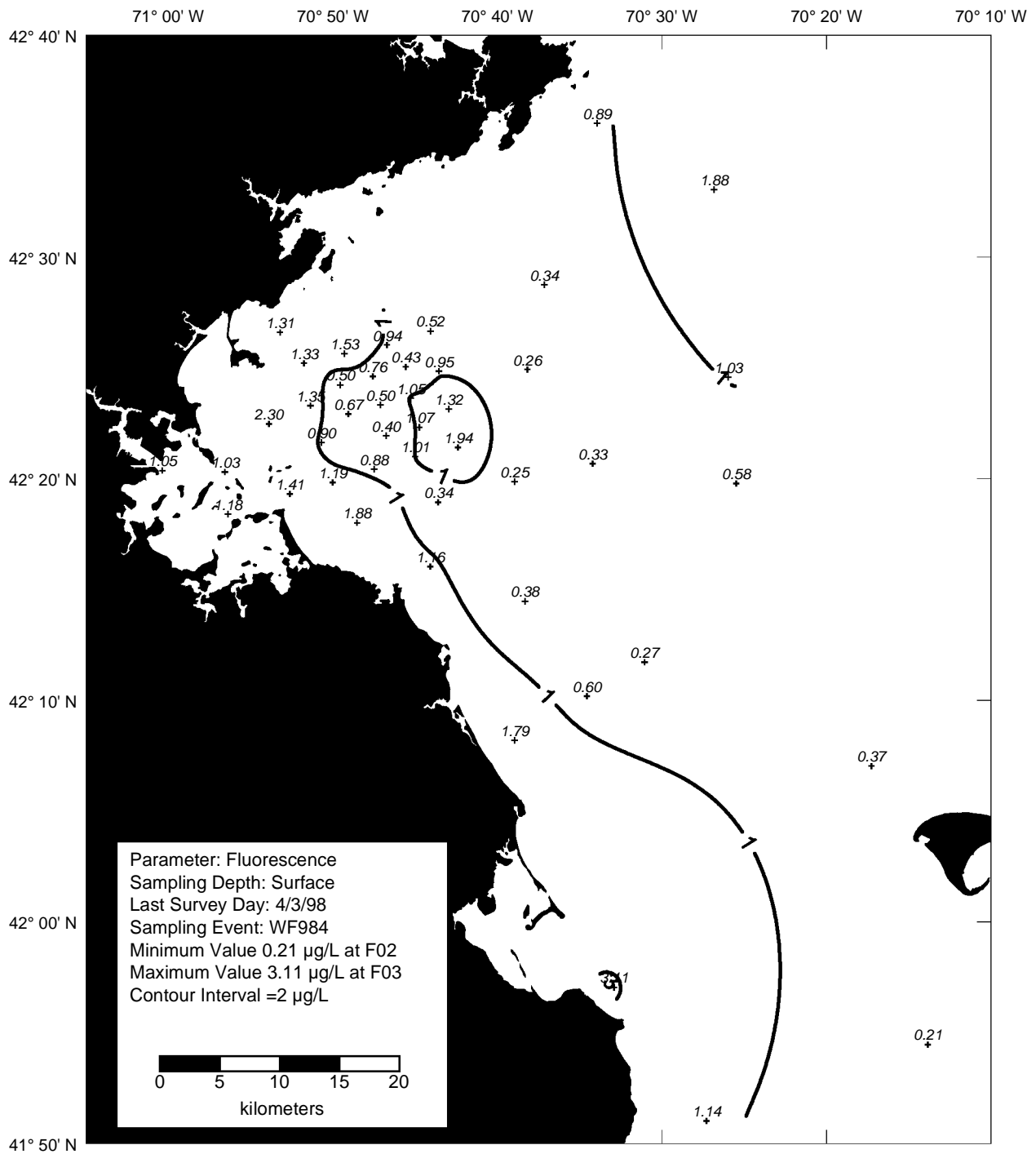


Figure 4-30. Fluorescence Surface Contour Plot for Farfield Survey WF984 (Apr 98)

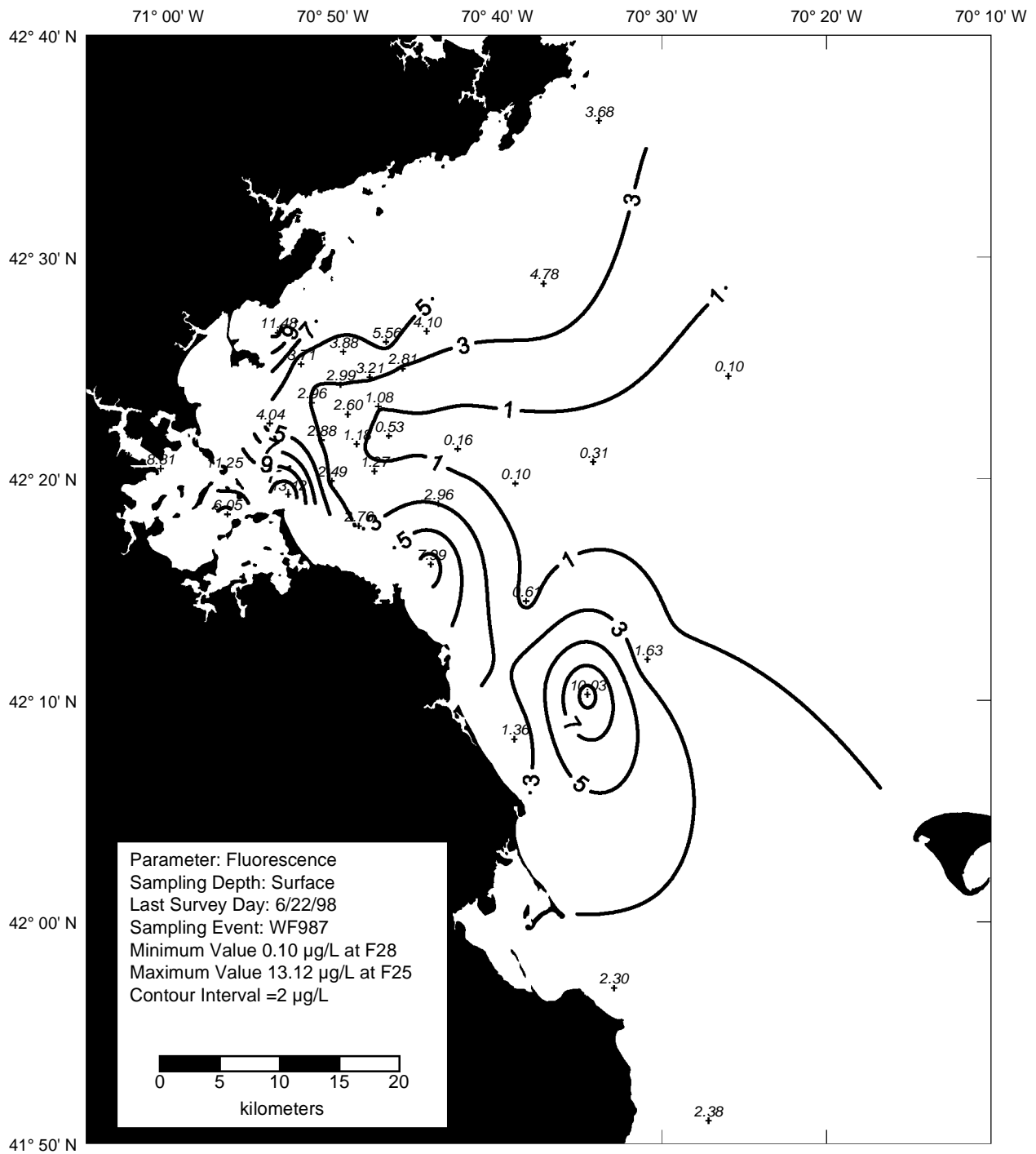


Figure 4-31. Fluorescence Surface Contour Plot for Farfield Survey WF987 (Jun 98)

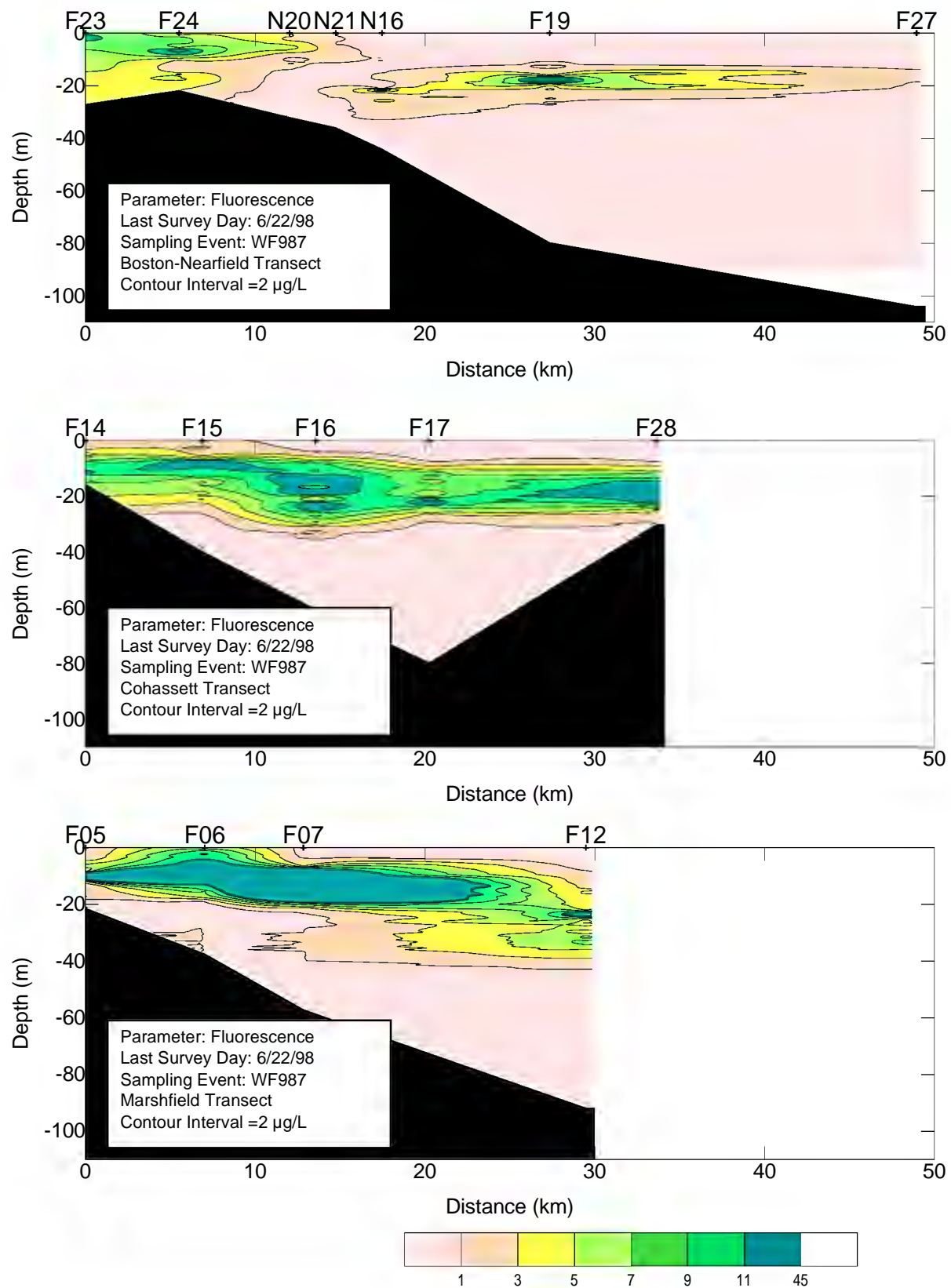


Figure 4-32. Fluorescence Vertical Transect Plots for Farfield Survey WF987 (Jun 98)

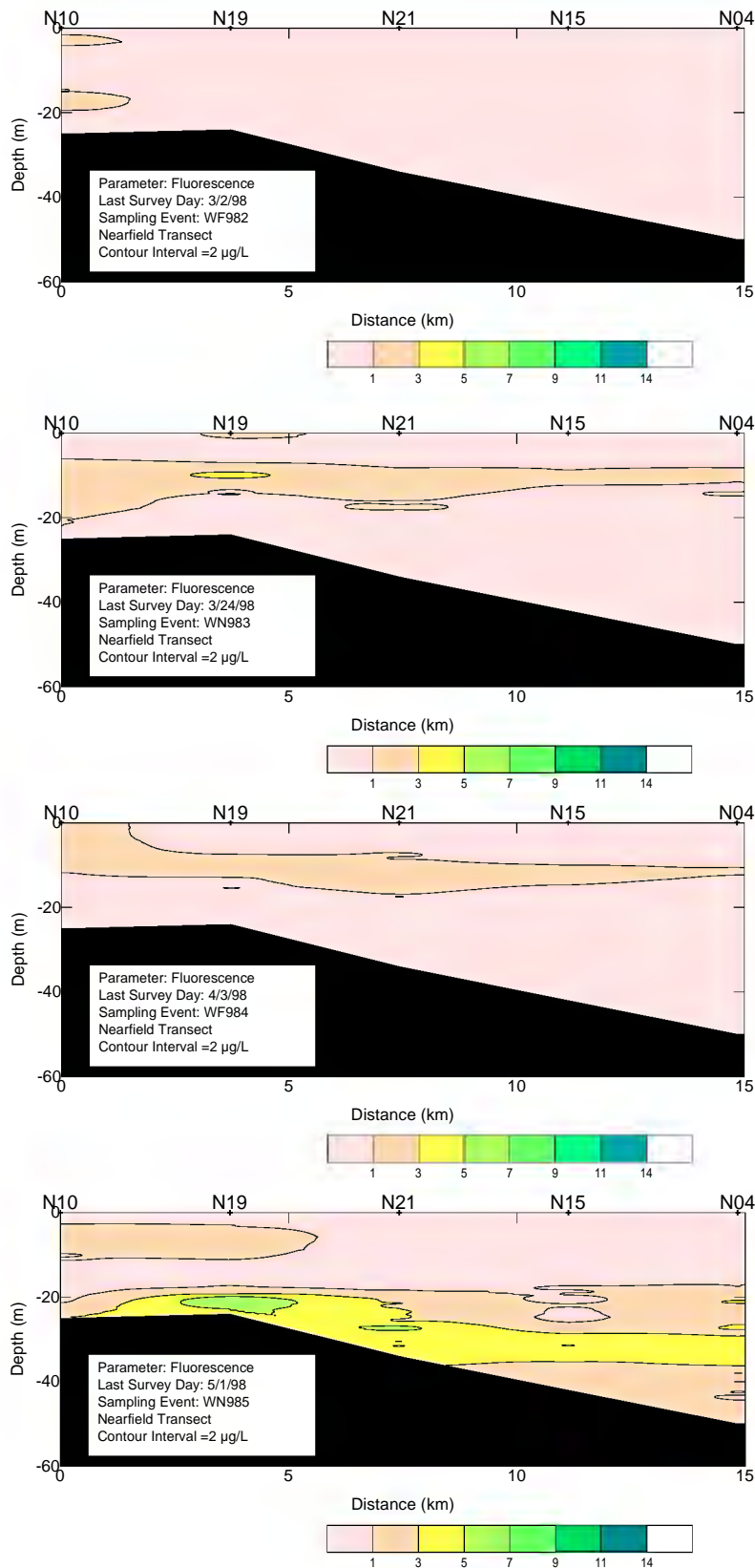


Figure 4-33. Fluorescence Vertical Nearfield Transect Plots for Surveys WF982 through WN985

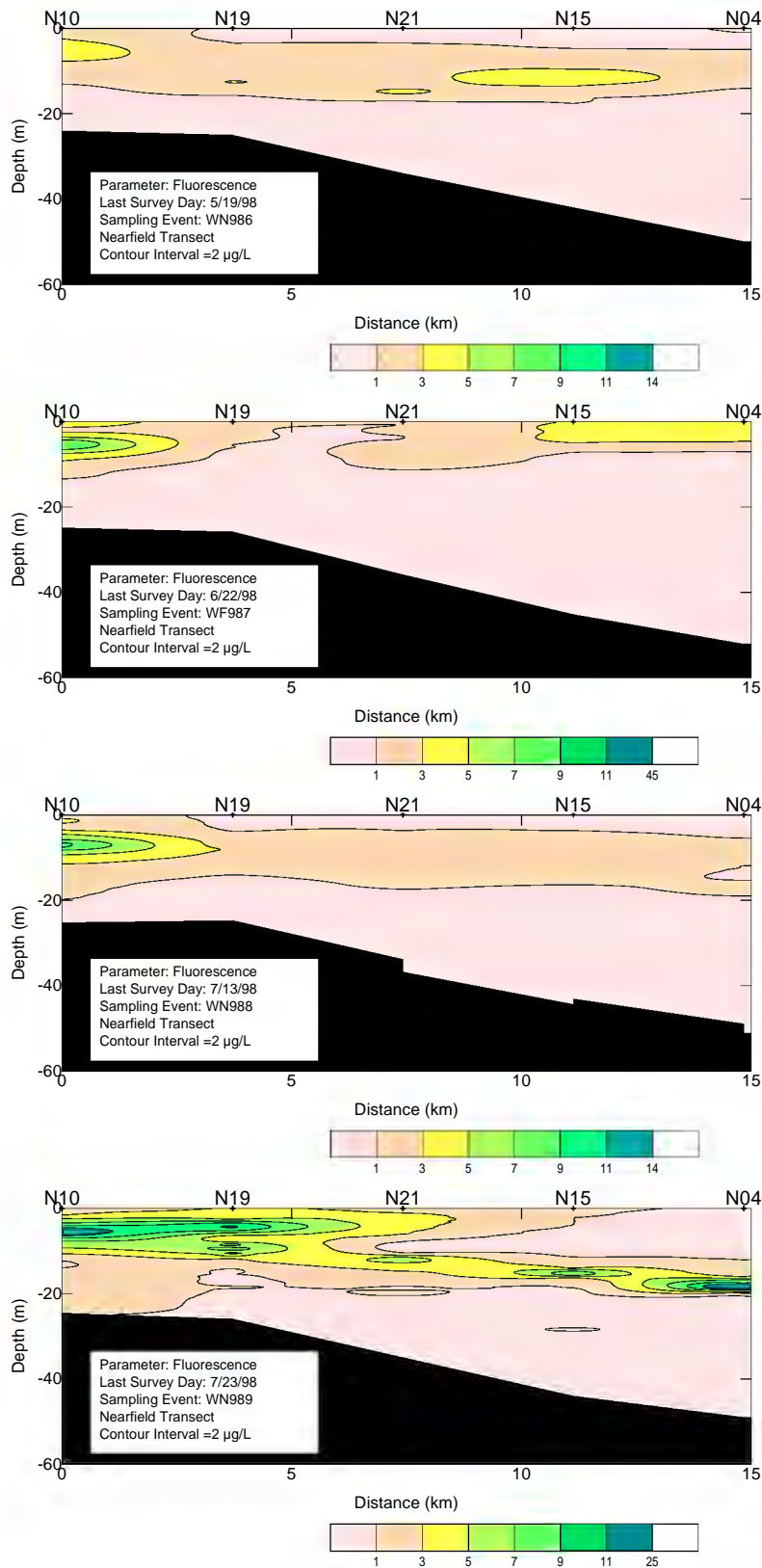
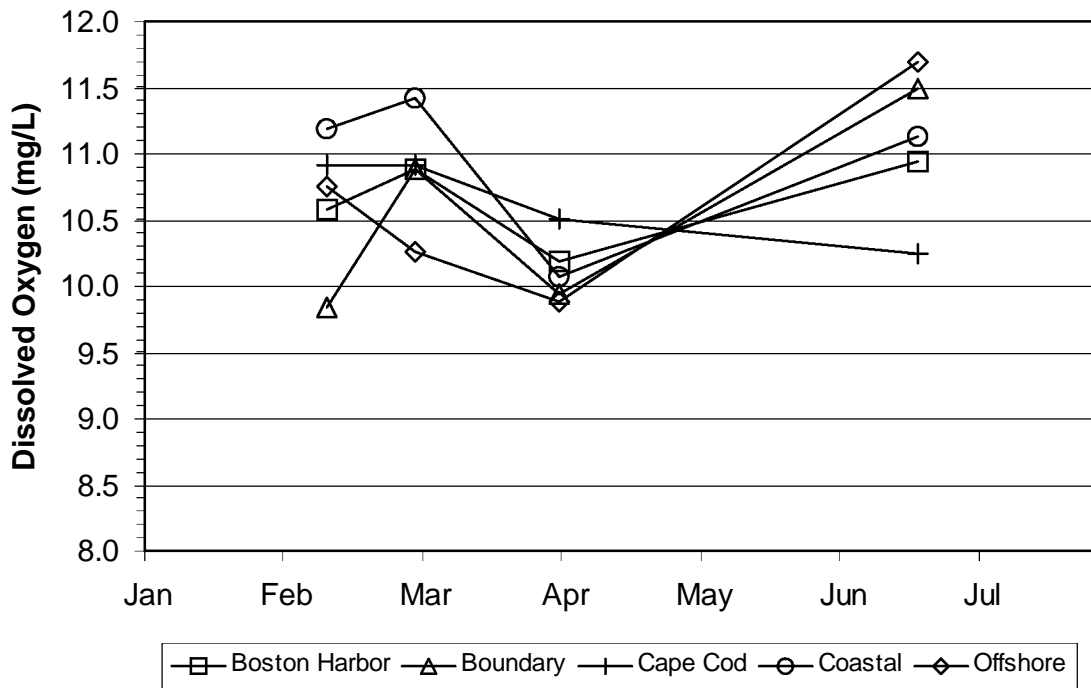


Figure 4-34. Fluorescence Vertical Nearfield Transect Plots for Surveys WN986 through WN989

(a) Dissolved Oxygen Concentration



(b) Dissolved Oxygen Percent Saturation

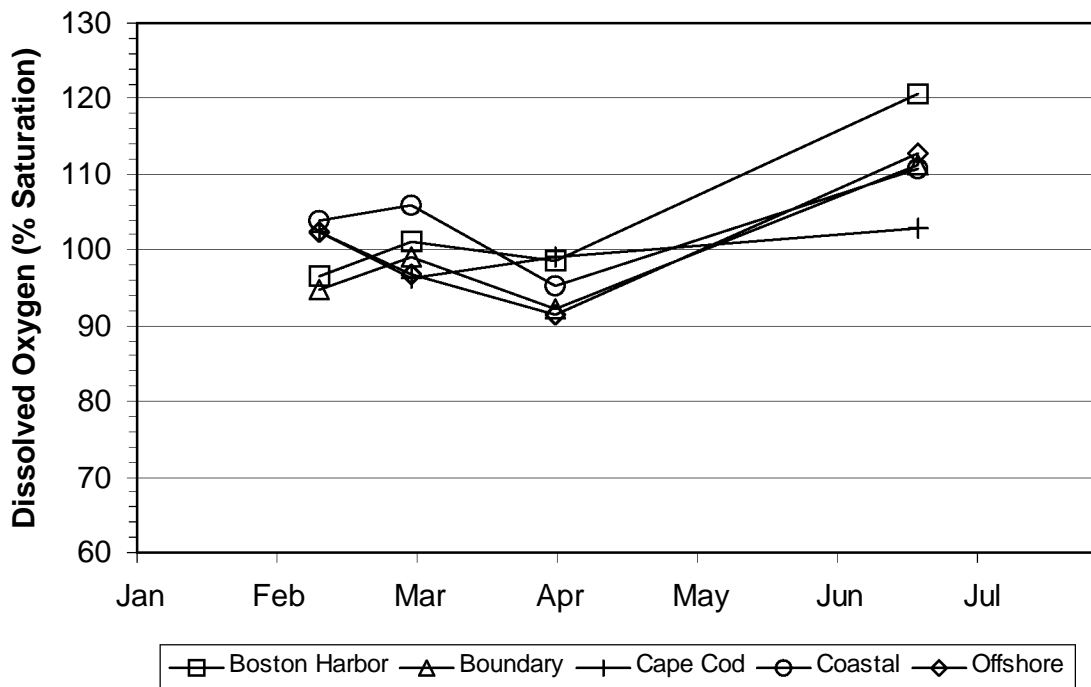


Figure 4-35. Time Series of Bottom Water Average DO Concentration and Percentage Saturation in the Farfield

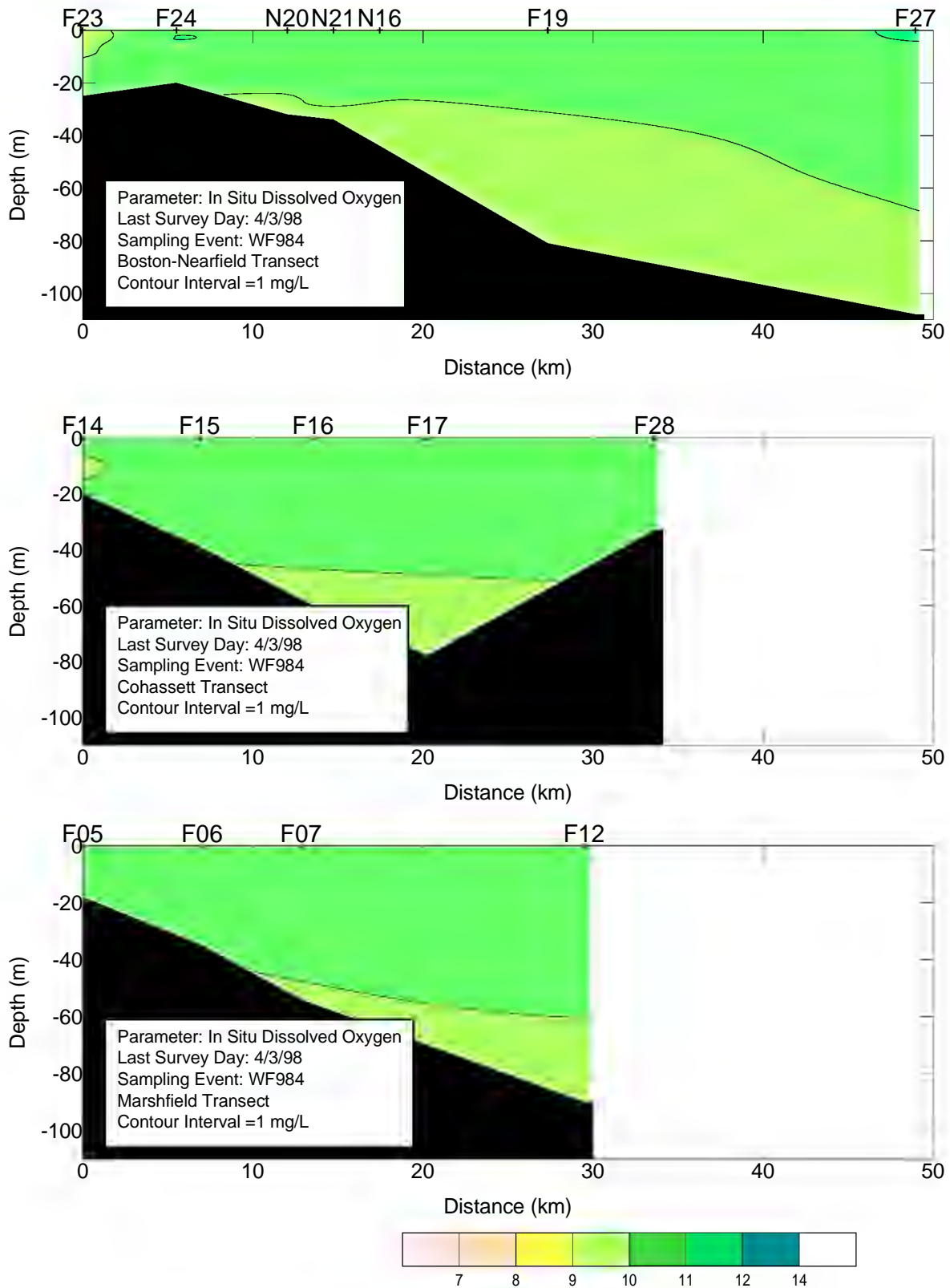


Figure 4-36. Dissolved Oxygen Vertical Transects for Survey WF984 (Apr 98)

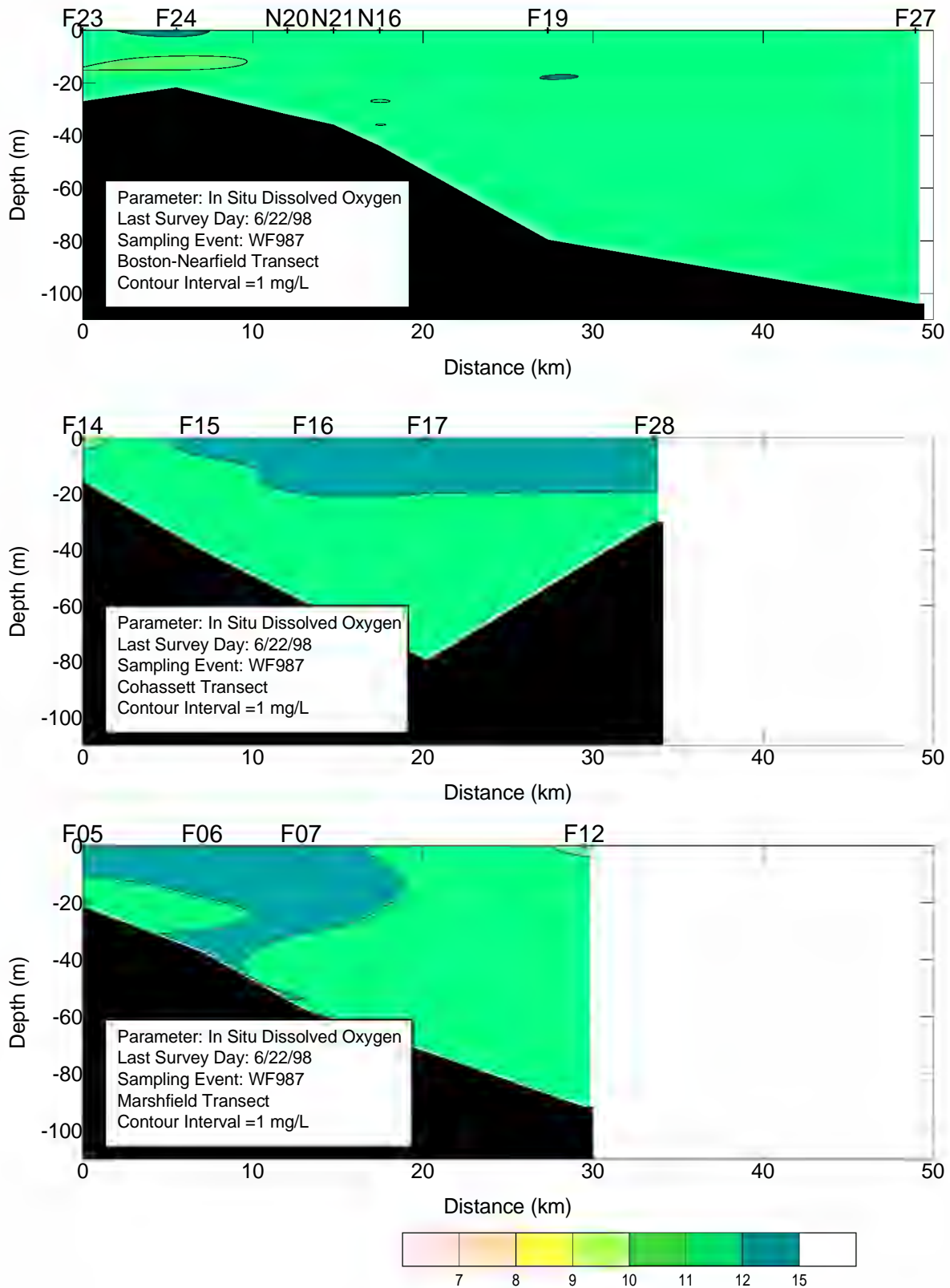
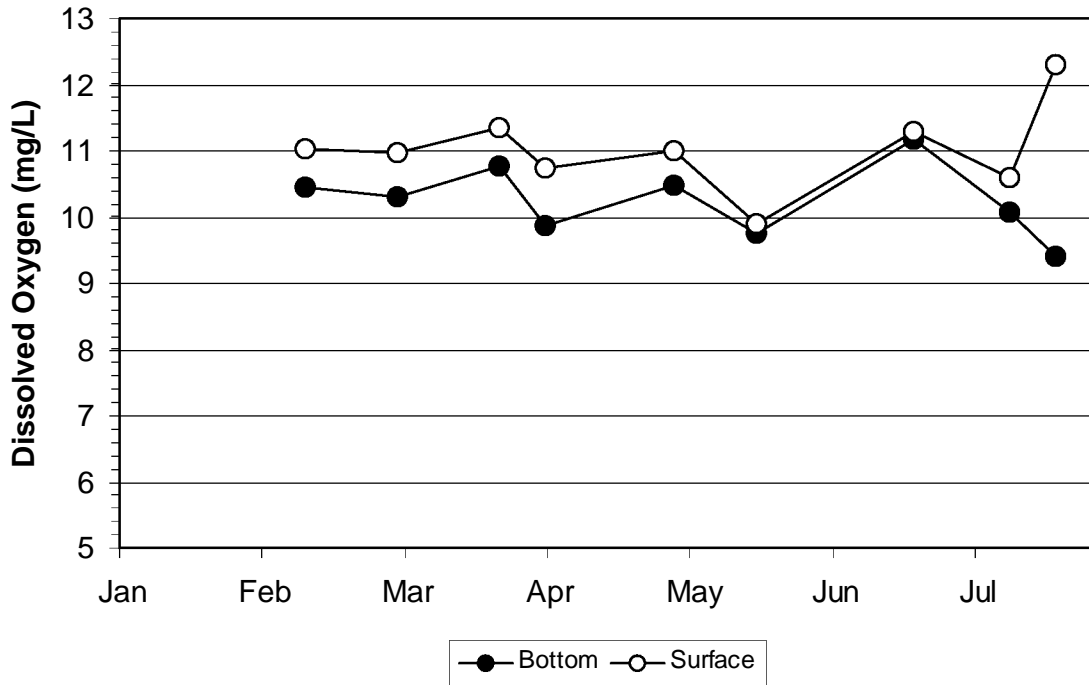


Figure 4-37. Dissolved Oxygen Vertical Transects for Survey WF987 (Jun 98)

(a) Dissolved Oxygen Concentration



(b) Dissolved Oxygen Percent Saturation

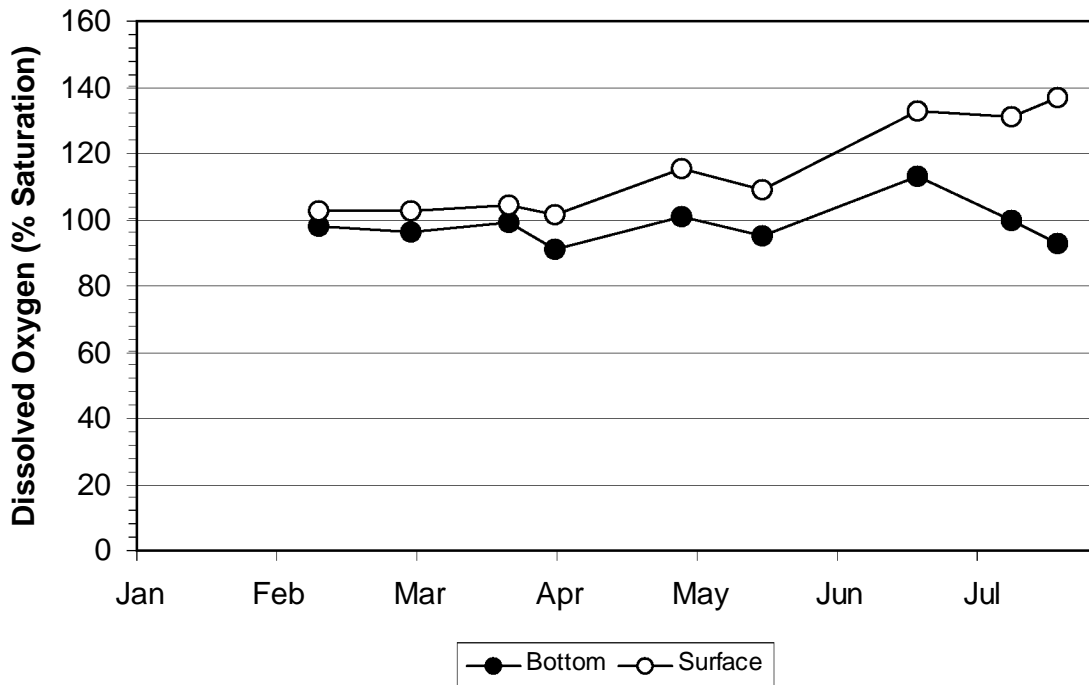


Figure 4-38. Time Series of Bottom and Surface Average DO Concentration and Percentage Saturation in the Nearfield

5.0 PRODUCTIVITY, RESPIRATION, AND PLANKTON RESULTS

5.1 Productivity

Production measurements were taken at two nearfield stations (N04, N18) and one farfield station (F23) near the entrance of Boston Harbor. All three stations were sampled on February 9, 1998 (WF981), April 2, 1998 (WF984), and June 22, 1998 (WF987). Stations N04 and N18 were additionally sampled on March 23, (WN983), May 1, (WN985), May 19, 1998 (WN986), July 8, 1998 (WN988), and July 23, 1998 (WN989). The measurements for March 1, 1998 (WF982) were lost when the incubators failed. Production values for WF982 (stations N04, N18 and F23) were estimated using the model parameters from the first cruise (WF981) and the *in situ* data for temperature, irradiance, and light attenuation from the second. The major assumption of this approach is that model parameters remained constant over the 3-wk period between cruises, a relatively good assumption given the similar and very low chlorophyll values for both cruises. With the exception of WF982, samples were collected at five depths throughout the euphotic zone. Production was determined by measuring ^{14}C at varying light intensities as summarized below and in Appendix A.

In addition to samples collected from the water column, productivity calculations also utilized light attenuation data from a CTD-mounted 4π sensor, and incident light time-series data from a 2π irradiance sensor located on Deer Island, MA. After collection of the productivity samples, they were returned to the Marine Ecosystems Research Laboratory (MERL) in Rhode Island and incubated in temperature controlled incubators. The resulting photosynthesis versus light intensity (P-I) curves (Figure 5-1 and comprehensively in Appendix E) were used, in combination with light attenuation and incident light information, to determine hourly production at 15-min intervals throughout the day for each sampling depth.

For this semi-annual report, areal production ($\text{mg C m}^{-2} \text{d}^{-1}$) and chlorophyll-specific areal production ($\text{mg C mg Chl}^{-1} \text{d}^{-1}$) are presented (Figures 5-2 and 5-3). Areal productions are determined by integrating measured productivity (and chlorophyll-specific productivity) over the depth interval. Chlorophyll-specific productivity for each depth was first determined by normalizing productivity by measured chlorophyll *a*. Productivity and chlorophyll-specific productivity for each depth are also presented as contour plots (Figures 5-4 and 5-7).

5.1.1 Areal Production

Areal production at the nearfield stations (N04, N18) was less than $300 \text{ mg C m}^{-2} \text{d}^{-1}$ from February through April (WF981-WF984) then increased in late spring (WN985-WN986) to levels of $300\text{-}400 \text{ mg C m}^{-2} \text{d}^{-1}$ (Figure 5-2). Maximum productivity between the nearfield stations ($>400 \text{ mg C m}^{-2} \text{d}^{-1}$) occurred at station N18 on May 19, 1998 and corresponded with the highest chlorophyll *a* values observed at nearfield stations during this reporting period (February to late-July). Areal production declined slightly at station N04 in June but decreased to less than $200 \text{ mg C m}^{-2} \text{d}^{-1}$ at station N18. Production at both stations remained below $200 \text{ mg C m}^{-2} \text{d}^{-1}$ during the July surveys.

At the Boston Harbor productivity/respiration station (F23), areal production was relatively low ($\sim 100 \text{ mg C m}^{-2} \text{d}^{-1}$) during February and March and increased only slightly ($124 \text{ mg C m}^{-2} \text{d}^{-1}$) in April (WF984). Areal production reached a maximum value of $1103.9 \text{ mg C m}^{-2} \text{d}^{-1}$ at station F23 during the June survey (WF987). The production data are in agreement with the chlorophyll data, which indicated that a phytoplankton bloom occurred during this period.

Relative to other years, areal production at all three survey stations was very low. No winter/spring phytoplankton bloom was observed at any station during the sampling period (Figure 5-2). In general,

nearfield stations are characterized by the occurrence of a winter/spring phytoplankton bloom, while a gradual pattern of increasing areal production from winter through summer is more typical of the harbor (station F23). The winter/spring phytoplankton blooms observed at nearfield stations in 1995-1997 generally reached values of 1000 to 4000 mg C m⁻² d⁻¹, with blooms typically lasting 2-3 months. The absence of a winter/spring phytoplankton bloom during 1998 is being further examined and represents a major change in the seasonal productivity pattern relative to other years for the nearfield region.

The productivity cycle at station F23 was also aberrant during February to July 1998. Production values did not increase gradually over time and the peak production observed was considerably lower than earlier years (Figure 5-2). During 1995-1997, peak areal productions at station F23 ranged from 2000 to 5000 mg C m⁻² d⁻¹ in June-July. The peak areal production that was observed in June 1998 at station F23 was 2-5 times lower than peak values observed in previous years.

The relatively low production values at stations F23, N04 and N18 are consistent with the low chlorophyll values observed during the survey period.

Chlorophyll-specific areal production (Figure 5-3) was highly variable at station N18, but showed a gradual-decreasing trend over time at station N04. Chlorophyll-specific areal production was relatively low and constant at station F23 throughout the sampling cycle. Chlorophyll-specific production is an approximate measure for the efficiency of production and frequently reflects nutrient conditions at the sampling sites. The distribution of chlorophyll-specific production indicates that the efficiency of production was high relative to the amount of biomass present at the nearfield stations. At station N18, chlorophyll-specific production was greater than 600 mg C mg Chl a⁻¹ d⁻¹ during the early May survey (WN985). This period of high productivity per unit chlorophyll preceded the peak production observed at station N18 in mid-May (WN986) and agrees with the seasonal trend in phytoplankton abundance.

5.1.2 Chlorophyll-Specific Production

The spatial and temporal distribution of production and chlorophyll-specific production on a volumetric basis were summarized by contouring production over the sampling period (Figures 5-4 to 5-7). Chlorophyll-specific productions (daily production normalized to chlorophyll concentration at each depth) were calculated to compare production with chlorophyll concentrations. Chlorophyll-specific production can be used as an indicator of the optimal conditions necessary for photosynthesis.

Daily production was concentrated in the upper 5-10 m of the water column during the initial five surveys. A subsurface (10-20 m) productivity maximum was measured at station N18 on May 19, 1998 (WN986). A subsurface production maximum was also observed at station N04 during the May 19, 1998 survey. However, the peak depth of occurrence was observed at ~ 8 m (Figures 5-4 and 5-5). At the two nearfield stations, productions tended to increase during the spring with peak values occurring in May (station N18) and June (station N04) 1998 for the study period. For station N04, the highest production value observed (63.9 mg C m⁻³ d⁻¹) occurred at the surface on June 22, 1998 (WF987). The peak production (34.7 mg C m⁻³ d⁻¹) for station N18 occurred in surface waters on May 1, 1998 (WN985). Peak production values tended to be correlated with the occurrence of the highest chlorophyll *a* measurements. The productivity pattern observed in 1998 was very different from that observed in prior years. Peak productions typically occur during the winter/spring phytoplankton bloom period rather than gradually increasing throughout the spring season.

Chlorophyll-specific production at stations N04 and N18 was also concentrated in the upper portions of the water column (Figures 5-6 and 5-7). Peak chlorophyll-specific productions tended to occur early in the sampling season at station N04, suggesting that the efficiency of photosynthesis decreased slightly with time. When the efficiency of photosynthesis is high but not reflected in higher phytoplankton

biomass (measured as total chlorophyll *a*) it suggests that other processes (such as predation by zooplankton) are important in controlling the patterns observed.

5.2 Respiration

Respiration measurements were made at the same nearfield (N04, N18) and farfield (F23) stations as productivity and at an additional station in Stellwagen Basin (F19). All four stations were sampled during each of the combined farfield/nearfield surveys and stations N04 and N18 were also sampled during the five nearfield surveys. Respiration samples were collected from three depths (surface, mid-depth, and bottom) and were incubated in the dark at *in situ* temperatures for 8 ± 1 days.

Both respiration (in units of $\mu\text{MO}_2 \text{ hr}^{-1}$) and carbon-specific respiration ($\mu\text{MO}_2 \mu\text{MC}^{-1} \text{ hr}^{-1}$) rates are presented in the following sections. Carbon-specific respiration was calculated by normalizing respiration rates to the coincident particulate organic carbon (POC) concentrations. Carbon-specific respiration rates provide a relative indication of the biological availability (labile) of the particulate organic material for microbial degradation.

5.2.1 Water Column Respiration

Due to electrical problems with the incubators in June, there are only three sets of respiration data for the farfield stations (F23 and F19). Thus, all of the farfield respiration data was collected prior to the establishment of seasonal stratification. Evaluations of the temporal trends are therefore focused on the nearfield area where data are available over the whole February to July time period.

During the surveys conducted in February to April, respiration rates were generally low throughout the region ($< 0.10 \mu\text{MO}_2 \text{ hr}^{-1}$) and there were no consistent vertical trends in the data (Figure 5-8). Surface water respiration rates during the first two surveys were variable and were not consistent with concurrent respiration data from the other depths or the POC data collected at station F23. These data are suspected to be erroneous.

In early May (WN985), there was an increase in the respiration rates for the surface and mid-depth samples in the nearfield area. This increase coincided with the onset of seasonal stratification and increases in productivity, POC concentration, and phytoplankton abundance. By mid-May (WN986), respiration rates had decreased to $< 10 \mu\text{MO}_2 \text{ hr}^{-1}$ over the water column at station N04, but had increased at station N18 to $10\text{-}15 \mu\text{MO}_2 \text{ hr}^{-1}$ at all three depths sampled. During this survey, the highest production rates for this time period were observed at stations N04 and N18, while at station N04 there was also a significant decrease in both POC concentration and phytoplankton abundance from the levels that had been observed in early May.

The highest respiration rates for this reporting period were observed during the two surveys in July. Respiration rates at stations N04 and N18 ranged from $0.07\text{-}0.22 \mu\text{MO}_2 \text{ hr}^{-1}$ and $0.08\text{-}0.32 \mu\text{MO}_2 \text{ hr}^{-1}$, respectively. The rates generally decreased with depth, which is consistent with the relatively high surface to mid-depth chlorophyll concentrations that were seen during these July surveys.

5.2.2 Carbon-Specific Respiration

Carbon-specific respiration accounts for the effect variations in the size of the particulate organic carbon (POC) pool have on respiration. Differences in carbon-specific respiration result from variations in the quality of the available particulate organic material or from environmental conditions such as temperature. Particulate organic material that is more easily degraded (more labile) will result in higher carbon-specific respiration. In general, newly produced organic material is the most labile. Water

temperature is the main physical characteristic that controls the rate of microbial oxidation of organic material – the lower the temperature the lower the rate of oxidation. When stratified conditions exist, the productive, warmer surface and/or mid-depth waters usually exhibit higher carbon-specific respiration rates and bottom waters have lower carbon-specific respiration rates due to both lower water temperature and lower substrate quality due to the degradation of particulate organic material during sinking.

There was a general increase in POC concentrations from February to July (Figure 5-9), which is consistent with the increase observed in chlorophyll over this time period. POC concentrations were low (10-20 μMC) in the nearfield during the first four surveys and relatively uniform over the well-mixed water column. Over the same time period, POC concentrations were significantly higher at the harbor station F23. The carbon-specific respiration rates were low ($<0.005 \mu\text{MO}_2 \mu\text{MC}^{-1} \text{hr}^{-1}$) at all three stations, except for the station F23 surface water sample from WF981 discussed previously (Figure 5-10). This suggests that the POC measured at station F23 was probably degraded or detrital material transported from the harbor or other coastal areas.

In early May (WN985), POC concentrations had increased at both nearfield stations to approximately 20-30 μMC . This correlated to the highest surface and mid-depth carbon-specific respiration rates measured at station N04 during this time period. Low carbon-specific respiration rates were still observed at station N18 even though concurrent production measurements were the highest observed at this station. Ancillary data (low chlorophyll and low phytoplankton abundance) suggest that the sampling at station 18 may have occurred at the initiation of a localized bloom when there was relatively low, yet productive phytoplankton assemblage.

The POC concentrations had decreased by mid-May at both nearfield stations. This was concomitant with lower carbon-specific respiration at station N04, but higher carbon-respiration for the mid-depth and bottom samples at station N18. This increase in respiration at depth was coincident with high subsurface production (see Figure 5-5). Though POC concentrations decreased to approximately 10 μMC in the bottom water in June and July, carbon-specific respiration remained high. This suggests that the limited particulate organic material reaching the bottom waters had not been substantially degraded or that there was another significant pool of labile organic carbon that has not been considered (dissolved organic carbon).

5.3 Plankton Results

Plankton samples were collected on each of the nine surveys conducted during this reporting period. Phytoplankton and zooplankton samples were collected at two stations during each nearfield survey and at 11 stations during the farfield surveys. During the first three farfield surveys of 1998 (WF981, WF982, and WF984), zooplankton samples were collected at two additional stations in Cape Cod Bay (F32 and F33). Phytoplankton samples included both whole-water and 20 μm -mesh screened samples, from the surface and subsurface chlorophyll maximum depths. Zooplankton samples were collected by vertical/oblique tows with 102 μm -mesh nets. Methods of sample collection and analyses are detailed in Albro *et al.* (1998).

In this section, the seasonal trends in plankton abundance and regional characteristics of the plankton assemblages are evaluated. Total abundance and relative abundance of major taxonomic group are presented for each phytoplankton and zooplankton community. Tables in the appendices provide data on cell densities and relative abundance for all dominant plankton species ($>5\%$ abundance): Appendix F – whole water phytoplankton, Appendix G – 20- μm screened phytoplankton, and Appendix H – zooplankton.

5.3.1 Phytoplankton

5.3.1.1 Seasonal Trends in Total Phytoplankton Abundance

Total phytoplankton abundances in nearfield whole water samples (surface and subsurface mid-depths) were low from February through early April (Table 5-1). Total abundances increased in May and June, to levels in July that were the highest observed during this period. Instead of a typical winter/spring phytoplankton bloom, there was a sustained increase from February through July.

Total phytoplankton abundance in farfield whole water samples (surface and subsurface mid-depths) showed similar low abundances through early April, with seasonal increases through June (Table 5-1).

Total abundances of dinoflagellates, silicoflagellates and protozoans in 20 µm-mesh-screened water samples were considerably lower than those recorded for total phytoplankton in whole-water samples, due to the screening technique which selects for larger, albeit rarer cells. Nonetheless, similar seasonal increases, though of different taxa, were recorded. Nearfield screened phytoplankton increased from February through May to high levels in June and July (Table 5-2). These increases in screened phytoplankton abundance largely reflected a sustained bloom of the dinoflagellates *Ceratium longipes*, *Ceratium tripos*, and other species of this genus from February through July.

Table 5-1. Nearfield and Farfield Averages and Ranges of Abundance (10⁶ Cells L⁻¹) of Whole-Water Phytoplankton

Survey	Dates (1998)	Nearfield Mean	Nearfield Range	Farfield Mean	Farfield Range
WF981	2/3-2/10	0.297	0.055-0.579	0.432	0.173-0.887
WF982	2/27-3/2	0.333	0.211-0.457	0.576	0.301-1.274
WN983	3/24	0.532	0.405-0.614	NA	NA
WF984	3/31-4/3	0.351	0.280-0.477	0.772	0.232-2.509
WN985	5/1	1.119	0.593-2.220	NA	NA
WN986	5/19	0.794	0.581-1.231	NA	NA
WF987	6/16-19, 6/22	0.890	0.148-2.033	2.042	0.158-4.932
WN988	7/8, 7/13	2.356	1.142-3.310	NA	NA
WN989	7/23	1.904	1.379-2.462	NA	NA

NA- Data not available because the farfield stations were not sampled during this survey.

Table 5-2. Nearfield and Farfield Average and Ranges of Abundance (Cells L⁻¹) for >20 µM-Screened Phytoplankton

Survey	Dates (1998)	Nearfield Mean	Nearfield Range	Farfield Mean	Farfield Range
WF981	2/3-2/10	166	120-247	112	22-456
WF982	2/27-3/2	188	93-303	98	36-148
WN983	3/24	514	581-790	NA	NA
WF984	3/31-4/3	1,715	1,431-2,023	586	76-1,766
WN985	5/1	1,726	574-2,307	NA	NA
WN986	5/19	1,934	201-3,455	NA	NA
WF987	6/16-19, 6/22	4,238	1,116-13,757	2,289	314-11,796
WN988	7/8, 7/13	3,193	1,134-5,164	NA	NA
WN989	7/23	3,351	1,703-6,775	NA	NA

NA- Data not available because the farfield stations were not sampled during this survey.

5.3.1.2 Nearfield Phytoplankton Community Structure

Whole-Water Phytoplankton - During February – March (WF981 and WF982), nearfield whole-water phytoplankton assemblages from both depths were dominated by unidentified microflagellates and cryptomonads < 10 µm in longest dimension (Figures 5-11 and 5-12). Small centric diatoms < 10 µm in diameter were subdominants in surface samples from stations N04 and N18, whereas an unidentified species of the dinoflagellate genus *Gymnodinium* was subdominant at mid-depths at these same stations.

During March – April (WN983 and WF984), the overwhelming nearfield dominance of < 10 µm microflagellates and cryptomonads continued in the nearfield, although *Gymnodinium* sp. was again a subdominant at subsurface depths.

In WN985 the nearfield samples were still dominated by small microflagellates and cryptomonads, but the bloom of chain-forming diatoms such as *Chaetoceros socialis* and *Skeletonema costatum* was evidenced in the nearfield. The increase in *Chaetoceros socialis* and *Skeletonema costatum* in the nearfield continued through late May during WN986, but with unidentified centric diatoms < 10 µm in diameter and a small (< 20 µm diameter) species of the diatom genus *Thalassiosira* and *Gymnodinium* sp. joining *Skeletonema costatum* as subdominants.

During the June survey (WF987), nearfield assemblages from both depths included a mixture of small microflagellates and chain-forming diatoms such as *Skeletonema costatum*, *Chaetoceros* spp., and *Pseudonitzschia delicatissima*.

By WN988 in early July, whole-water assemblages were dominated by microflagellates < 10 µm in size, and a mixture of subdominant diatoms such as *Leptocylindrus minimus*, *L. danicus*, *Rhizosolenia fragilissima*, *Proboscia* (formerly *Rhizosolenia*) *alata*, and *Skeletonema costatum*.

In late July Nearfield survey during WN989, surface assemblages were dominated by small microflagellates, and secondarily by the chain-forming diatoms *Leptocylindrus danicus* and *L. minimus*. Subdominance in subsurface mid-depths had shifted, however, to an unidentified species of *Gymnodinium*.

Based on analyses since 1992, the whole-water phytoplankton assemblage in the nearfield was typical for the first half of the year during non-*Phaeocystis* years in terms of taxonomic composition. However it was atypical in the respect that there was no clear spring phytoplankton bloom, but rather a continuous increase in phytoplankton abundance from winter through early summer.

Screened Phytoplankton - During WF981 nearfield screened samples were overwhelmingly dominated by the silicoflagellate *Distephanus speculum*, and secondarily by the thecate dinoflagellates *Ceratium tripos* and, at various stations, by *C. longipes* and *Dinophysis acuminata*. The ciliate protozoan *Mesodinium rubrum* was also abundant.

In WF982, *Ceratium longipes* and *C. tripos* were dominant with *Distephanus speculum* and *Mesodinium rubrum* subdominant in surface samples, but the *Ceratium* species were clearly dominant at depth.

By WN983, *Ceratium tripos* and *C. longipes* completely dominated the nearfield samples at both depths.

In WF984, *Ceratium longipes* dominated nearfield samples from both depths, with subdominant contributions from other *Ceratium* species.

In WN985, dominance by *Ceratium longipes* and other congeners, particularly *C. tripos* and *C. furca*, continued, but the thecate dinoflagellates *Dinophysis norvegica* and species of *Protoperidinium* were subdominant, particularly at depth. These patterns held in WN986, with *Ceratium* dominance at both depths, at both nearfield stations, and *Dinophysis norvegica* most abundant at depth.

Similar dinoflagellate dominance continued in May and June. During WF987, nearfield station assemblages were dominated by several species of *Ceratium* (*fuscus*, *lineatum*, *longipes*, *tripos*) and *Dinophysis norvegica*. During WN988, dominance by *Ceratium fuscus*, *C. lineatum*, and *C. tripos* continued, with additional contributions from *Protoperidinium trochoidium* and *Dinophysis norvegica*. During WN989, screened samples were dominated by the same species in the previous surveys (*C. fuscus*, *C. lineatum*, *C. tripos*, *D. norvegica*, and *P. trochoidium*).

In comparison with other years, the screened phytoplankton in the nearfield was typical for this time of year, except that the bloom of *Ceratium tripos/longipes* was initiated earlier than in some other years, and became the major feature of the screened-water dinoflagellate assemblage.

5.3.1.3 Regional Phytoplankton Assemblages

Whole-Water Phytoplankton - During WF981 and WF982, most farfield station assemblages were dominated at both depths by unidentified microflagellates and cryptomonads < 10 µm in cell size. However, the diatom *Skeletonema costatum* was the dominant at stations F01 and F02 in Cape Cod Bay (Figures 5-13 and 5-14).

During WF984 (Figure 5-15) most farfield stations were dominated by unidentified microflagellates and cryptomonads < 10 µm in size, but chain-forming diatoms were increasing in abundance. Particularly, these included *Chaetoceros compressus* at station F01 and other small *Chaetoceros* and unidentified centric diatoms < 10 µm in individual cell diameter at several other stations. *Skeletonema costatum* was also a subdominant at various stations in Boston Harbor such as F23, F30, and F31, and in Cape Cod Bay at F01 (both depths) and F02 (chlorophyll maximum).

By WF987 dominance of assemblages at both depths at most farfield stations had shifted from microflagellates and cryptomonads to a mixture of chain-forming diatoms (Figure 5-16). Included were several species of the genus *Chaetoceros*, *Skeletonema costatum*, and others.

Whole-water phytoplankton assemblages at farfield stations were similar to those in the nearfield, in terms of composition, and absence of a clear spring phytoplankton bloom.

Screened Phytoplankton - In WF981, 20 µm-screened surface phytoplankton samples were dominated by the silicoflagellates *Distephanus speculum* and *Dictyocha fibula*, and to a much lesser extent, at various stations, by several species of the dinoflagellate genus *Ceratium* (*C. furca*, *C. fuscus*, *C. longipes*, and *C. tripos*). An unidentified athecate dinoflagellate was the second most abundant component of the screened surface samples at station F23 in Boston Harbor. The ciliate protozoan *Mesodinium rubrum* was also abundant, comprising > 40% of cells counted at station F01 in Cape Cod Bay. These patterns from surface samples generally held for subsurface depths, except that the dinoflagellate *Prorocentrum micans* comprised > 22% of cells counted at station F25.

In WF982 *Distephanus speculum*, and to a lesser extent, *Mesodinium rubrum* were still abundant at both depths at most stations, but that dominance was shared with increasing proportions of *Ceratium longipes* and *C. tripos*.

In WF984, surface and subsurface samples were overwhelmingly dominated by *Ceratium longipes*, and secondarily by *C. tripos*, *C. fuscus*, and other species of this genus. An unidentified athecate dinoflagellate was subdominant at stations F30 and F31 in Boston Harbor.

Screened samples in WF987 were dominated by several species of the dinoflagellate genus *Ceratium* (*fusus*, *lineatum*, *longipes*, *tripos*) and other dinoflagellates such as *Dinophysis norvegica*, *Protoperdinium pallidum*, and *P. trochoidium*.

Screened-water dinoflagellate assemblages at farfield stations were similar to those in the nearfield, particularly in terms of the sustained bloom of *Ceratium tripos/longipes*.

5.3.1.4 Nuisance Algae

There were no blooms of harmful or nuisance phytoplankton species in Massachusetts and Cape Cod Bays during February – July, 1998. Some species that have caused harmful blooms in previous years, such as *Phaeocystis pouchetti*, were unrecorded during this period. Potentially-toxic species such as *Alexandrium tamarense* and members of the genus *Pseudo-nitzschia* were only sporadically present in low numbers. Similarly, non-toxic species whose blooms have caused anoxic events elsewhere, such as *Distephanus speculum* (Fanuko, 1989) and *Ceratium tripos/longipes* (Malone, 1978; Falkowski *et al.* 1980) were not recorded at abundances approaching those previously associated with anoxia. A summary is presented below.

Alexandrium tamarense was sporadically recorded for screened samples at a few stations during April and May (WF984, WN985), but only at trace abundances of 2-5 cells L⁻¹. This dinoflagellate was again recorded in June and July (WF987, WN988, WN989), but only at approximate abundances of < 10 cells L⁻¹.

Pseudo-nitzschia spp. were identified in the nearfield rapid analysis samples in all surveys except WF981, but except for values of 2-3 x 10³ cells L⁻¹ during WN988, this genus was only present at approximate levels of 1.5 x 10³ cells L⁻¹, and usually < 0.5 x 10³ cells L⁻¹. Although the non-toxic species *P. delicatissima* was identified with confidence, species reported as *P. pungens* could be either non-toxic *P. pungens*, or domoic-acid-producing *P. multiseriis*, but it is impossible to distinguish the two without performing scanning electron microscopy counts on intercostal poroids on the underside of acid-washed thecae. Nonetheless, even if these were *P. multiseriis*, their abundances were two orders of magnitude below the 10⁵ cells L⁻¹ threshold for domoic acid toxicity used in Canadian waters.

Perhaps the singular phytoplankton event of this period was the bloom of *Ceratium longipes/C. tripos*, which began unusually early in February, and exhibited sustained increases through July. Observations by Turner during the sampling for the ECOHAB (Ecology and Oceanography of Harmful Algal Blooms) program in the Gulf of Maine revealed that this bloom extended far to the north and east along the coast of Maine into the Bay of Fundy, in July and August of 1998. Although abundances of *C. longipes* and *C. tripos* recorded for screened samples during WF981 - WN983 (February – March) were < 515 cells L⁻¹, in April and May (WF984, WN985, WN986) maximum levels were 1-2 x 10³ cells L⁻¹. In June and July (WF987, WN988, WN989) maximum abundances were 2.5-3.1 x 10³ cells L⁻¹.

Ceratium longipes and *C. tripos* usually bloom in Massachusetts and Cape Cod Bays during the spring and summer, but the early initiation of this bloom in 1998 may relate to the unusually mild El Niño winter in New England in 1998. Nonetheless, abundances recorded here are well below those associated with the 1976 bloom of *C. tripos* blamed for widespread anoxia in the New York Bight. During that bloom, early March levels of *C. tripos* were an order-of-magnitude higher than “normal” levels of 1-5 x 10² cells L⁻¹ (Falkowski *et al.* 1980). By June, 1976, abundances associated with anoxia reached 5 x 10⁵ cells L⁻¹, although most values were 10-400 x 10³ cells L⁻¹ (average = 240 x 10³ cells L⁻¹) (Malone, 1978). Thus, levels of *C. tripos* and *C. longipes* in Massachusetts Bay in 1998 (maxima < 3 x 10³ cells L⁻¹) were far below those in the New York Bight in 1976.

Although the 1976 New York Bight bloom has been attributed only to *Ceratium tripos*, summer *Ceratium* blooms in Massachusetts and Cape Cod Bays are usually combined blooms of the morphologically-similar congeners *C. tripos* and *C. longipes*, with the latter most abundant. Although *C. longipes* is not mentioned in major papers describing the 1976 bloom in the New York Bight (Falkowski *et al.* 1980; Malone, 1978; Malone *et al.* 1979), photographs of putative “*C. tripos*” presented in Falkowski *et al.* (1980) (Fig. 12, p. 493) and Malone *et al.* (1979) (Plate 1, p. 218) are clearly those of *C. longipes*, not *C. tripos*. Thus, the 1976 New York Bight *Ceratium* bloom was apparently due to a combination of *C. tripos* and *C. longipes*, as is typical for blooms in Massachusetts and Cape Cod Bays.

Another non-toxic phytoplankton reported to cause anoxic blooms is the silicoflagellate *Distephanus speculum*. During an anoxia-inducing bloom in August, 1983 in the Gulf of Trieste (Adriatic Sea), *D. speculum* abundances were $4\text{--}653 \times 10^3$ cells L^{-1} (Fanuko, 1989). Levels of this species in screened samples from Massachusetts Bay during WF981 – WF987 were $< 0.5 \times 10^3$ cells L^{-1} , and usually $< 0.1 \times 10^3$ cells L^{-1} .

5.3.2 Zooplankton

5.3.2.1 Seasonal Trends in Total Zooplankton Abundance

Total zooplankton abundance at nearfield stations generally increased from February through April, reached the highest numbers in mid-May coinciding with the productivity maximum (WN986), and remained moderately high in June and July (Table 5-3).

Total zooplankton abundance at farfield stations was generally low ($< 20 \times 10^3$ animals m^{-3}) in February (Table 5-3). However, at stations F02, F33, and particularly F32 in the eastern side of Cape Cod Bay, values were high, ranging from $24.3\text{--}56.2 \times 10^3$ animals m^{-3} (Figure 5-17). By late February to early March, total zooplankton abundance at farfield stations had generally increased, with values at half the stations $> 20 \times 10^3$ animals m^{-3} . Only at the three stations in Boston Harbor (F23, F30, and F31) were all values $< 10 \times 10^3$ animals m^{-3} (Figure 5-18). The spring increase in farfield zooplankton abundance continued through late March-early April, with most values $> 20\text{--}30 \times 10^3$ animals m^{-3} (Figure 5-19). By June, zooplankton abundance was high ($> 10 \times 10^3$ animals m^{-3}) at all stations, with an astonishing maximum of 289.8×10^3 animals m^{-3} at station F23 in Boston Harbor (Figure 5-20).

Table 5-3. Nearfield and Farfield Average and Ranges of Abundance (10^3 Animals M^{-3}) for Zooplankton

Survey	Dates (1998)	Nearfield Mean	Nearfield Range	Farfield Mean	Farfield Range
WF981	2/3-2/10	8.5	3.0-12.9	15.5	1.2-56.2
WF982	2/27-3/2	23.5	9.2-33.0	21.6	4.8-57.2
WN983	3/24	29.5	28.7-30.4	NA	A
WF984	3/31-4/3	48.4	42.1-56.0	27.7	1.5-71.0
WN985	5/1	20.8	10.0-31.5	NA	NA
WN986	5/19	62.3	52.0-72.7	NA	NA
WF987	6/16-19, 6/22	48.8	23.3-69.8	59.2	14.6-289.8
WN988	7/8, 7/13	30.5	28.7-32.2	NA	NA
WN989	7/23	35.6	26.8-44.3	NA	NA

NA- Data not available because the farfield stations were not sampled during this survey.

5.3.2.2 Nearfield Zooplankton Community Structure

During WF981 the nearfield zooplankton assemblages were dominated by copepod nauplii, and females and copepodites of *Oithona similis* (stations N16 and N04), although gastropod veligers comprised 19% of the assemblage at station N04. At station N18 copepod nauplii were 40% of the catch, but abundance of *O. similis* was low (<5%), whereas *Acartia hudsonica* females and copepodites had a combined total of 42% of animals counted.

During WF982, WN983 and WN984, the nearfield was dominated by copepod nauplii and *Oithona similis* copepodites, with gastropod veligers as subdominants, and occasional subdominant abundances by *Calanus finmarchicus* copepodites, *Pseudocalanus* copepodites, and the appendicularian *Oikopleura dioica*.

Nearfield stations during WN986 and WF987 were dominated by copepod nauplii with subdominants including bivalve veligers, and copepodites of *Oithona similis*, *Pseudocalanus* sp. and *Temora longicornis*. During WN988 and WN989 copepod nauplii and *O. similis* copepodites continued to dominate, with subdominant contributions by *Oikopleura dioica*, bivalve veligers and *Pseudocalanus* and *Temora longicornis* copepodites.

5.3.2.3 Regional Zooplankton Assemblages

farfield stations during survey WF981, copepod nauplii and *Oithona similis* females and copepodites were dominants. *Pseudocalanus* copepodites were also subdominants at most stations. *Acartia hudsonica* copepodites were 6-20% of the catch at stations F31 and F23, respectively, in Boston Harbor, and barnacle nauplii were 22% of the assemblage at stations F31, and gastropod veligers made up 36% at station F30.

During WF982, copepod nauplii and *Oithona similis* copepodites were again dominant at farfield stations, but barnacle nauplii and/or gastropod veligers were subdominants at most stations. *Acartia hudsonica* were again subdominants at station F30 in Boston Harbor and, presumably reflecting the shallow depths in the harbor, polychaete larvae and harpacticoid copepods, likely of benthic origin, were subdominants at stations F30 and F31, respectively.

In WF984, copepod nauplii and *Oithona similis* copepodites were dominant at all farfield stations, except station F30, the most-inshore station in Boston Harbor. As expected, *Acartia hudsonica* copepodites were most abundant in the harbor at station F30, but surprisingly, *A. hudsonica* was either unrecorded, or present only at trace levels at the other two harbor stations (F31 and F23, respectively). Barnacle nauplii were also abundant at most stations, and sporadically dominant at some (F13, F23, F01, F25, F30, F31). Gastropod veligers were also dominant at most farfield stations, except for F23 and F30 in Boston Harbor.

During WF987 farfield zooplankton assemblages were dominated at most stations by copepod nauplii and bivalve veligers, with important subdominant contributions from copepodites of *Oithona similis*, *Temora longicornis* and *Pseudocalanus* sp.,. *Acartia* spp. copepodites were important subdominants at stations F30 and F31 in Boston Harbor as expected, but surprisingly, not at station F23. There, the cladoceran *Evadne nordmani* and polychaete larvae shared subdominance, whereas these latter taxa were much less prominent elsewhere.

The addition of stations F32 and F33 in Cape Cod Bay during WF981, WF982, and WF983, reinforces the dominance of copepod nauplii and *Oithona similis* copepodites recorded for the previously sampled stations F01 and F02. However, addition of F32 and F33 extended the range in total abundance recorded for F01 and F02 from approximately 12,000-24,000 animals m³ to 28,000-56,000 animals m³ in WF981, from approximately 15,000-24,000 animals m³ to 27,000-29,000 animals m³ in WF982, and from approximately 13,000 animals m³ to 19,000-28,000 animals m³ in WF984. Thus, addition of stations F32

and F33 in Cape Cod Bay revealed a greater level of patchiness in total abundance of assemblages that were generally dominated by the same suite of taxa. Further, during WF984, abundance of *Calanus finmarchicus* copepodites comprised only about 3-4% of the catch at stations F01 and F02, but approximately 7-11% at F32 and F33. Thus, for this important forage item of right whales that feed in Cape Cod Bay during this time of the year, addition of the two new stations captured a three-fold increase in patchiness of this copepod that would have been missed by sampling only stations F01 and F02.

5.4 Summary of Water Column Biological Events

- Relative to previous years, areal production was very low at all three productivity stations (N04, N18, and F23) from February to July 1998.
- Areal production in the nearfield was $<300 \text{ mgC m}^{-2} \text{ d}^{-1}$ from February to April, reached maximum values of $300\text{-}400 \text{ C m}^{-2} \text{ d}^{-1}$ in May, and decreased to $<200 \text{ C m}^{-2} \text{ d}^{-1}$ in July.
- At Boston Harbor station F23, areal production was $100\text{-}125 \text{ C m}^{-2} \text{ d}^{-1}$ for February to April and reached a maximum value of $1104 \text{ C m}^{-2} \text{ d}^{-1}$ in June.
- The lack of a winter/spring phytoplankton bloom in 1998 represents a major aberration in the seasonal productivity pattern relative to previous years for the nearfield region.
- For the winter/spring period, chlorophyll-specific production was relatively high at each of the nearfield stations suggesting that nutrient conditions were not limiting productivity and that other processes (e.g. water column instability, predation by zooplankton) may be limiting production.
- Respiration rates were generally low throughout the region ($<0.10 \mu\text{MO}_2 \text{ hr}^{-1}$) from February to April, increased in the nearfield area in May, and the highest respiration rates ($0.22\text{-}0.32 \mu\text{MO}_2 \text{ hr}^{-1}$) for this reporting period were observed during the two surveys in July.
- There was a general increase in POC concentrations from February to July, which was consistent with the increase observed in chlorophyll over this time period.
- POC concentrations were significantly higher at the Boston Harbor station F23 than at the nearfield stations.
- Total phytoplankton abundance in the nearfield was low from February to April increasing in May, June, and July. This is atypical for this area, instead of a winter/spring phytoplankton bloom, there was a sustained increase from February through July.
- Nearfield screened phytoplankton abundance increased from February to July. This increase was the result of a sustained bloom of the dinoflagellates *Ceratium longipes*, *Ceratium tripos*, and other species of this genus from February to July.
- The nearfield phytoplankton community was dominated by microflagellates from February through May. In June and July, the whole-water assemblages were dominated by a mixture of microflagellates and chain-forming diatoms.
- Regionally there was a shift in assemblages from one dominated by microflagellates and cryptomonads in February/March to one dominated by chain-forming diatoms in June.
- There were no blooms of harmful or nuisance phytoplankton species in the region during February to July 1998. *Alexandrium tamarense* and *Pseudo-nitzschia* spp. were recorded, but only at low numbers.
- Total zooplankton abundance at nearfield stations generally increased from February through April, reached the highest numbers in mid-May that coincided with productivity maximum (WN986), and remained moderately high in June and July.
- Copepod nauplii and *Oithona similis* copepodites dominated nearfield and farfield zooplankton community composition from February through July. At the Boston Harbor stations, *Acartia hudsonica* were also subdominants.

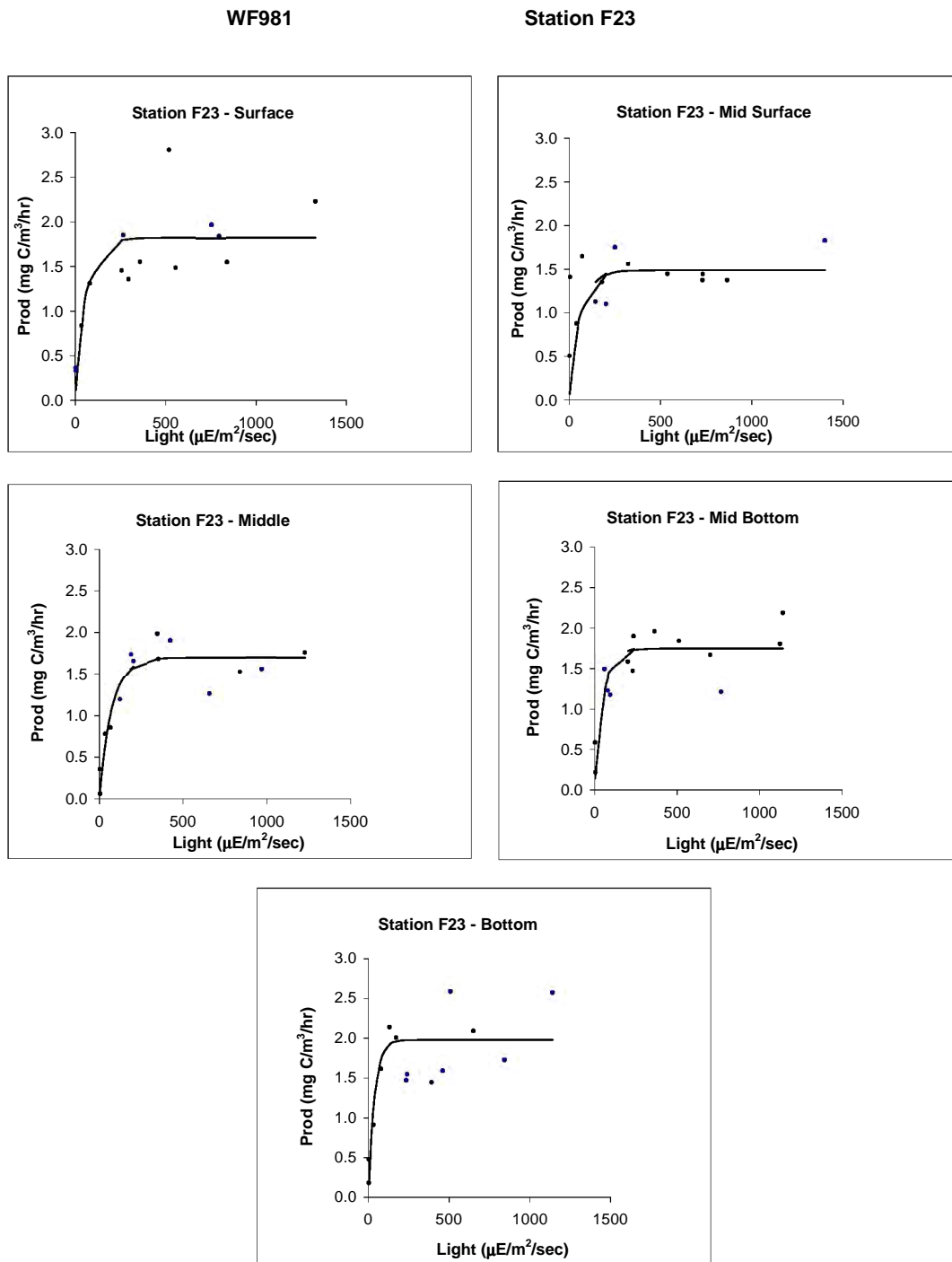


Figure 5-1. An Example Photosynthesis-Irradiance Curve From Station F23 Collected in February 1998

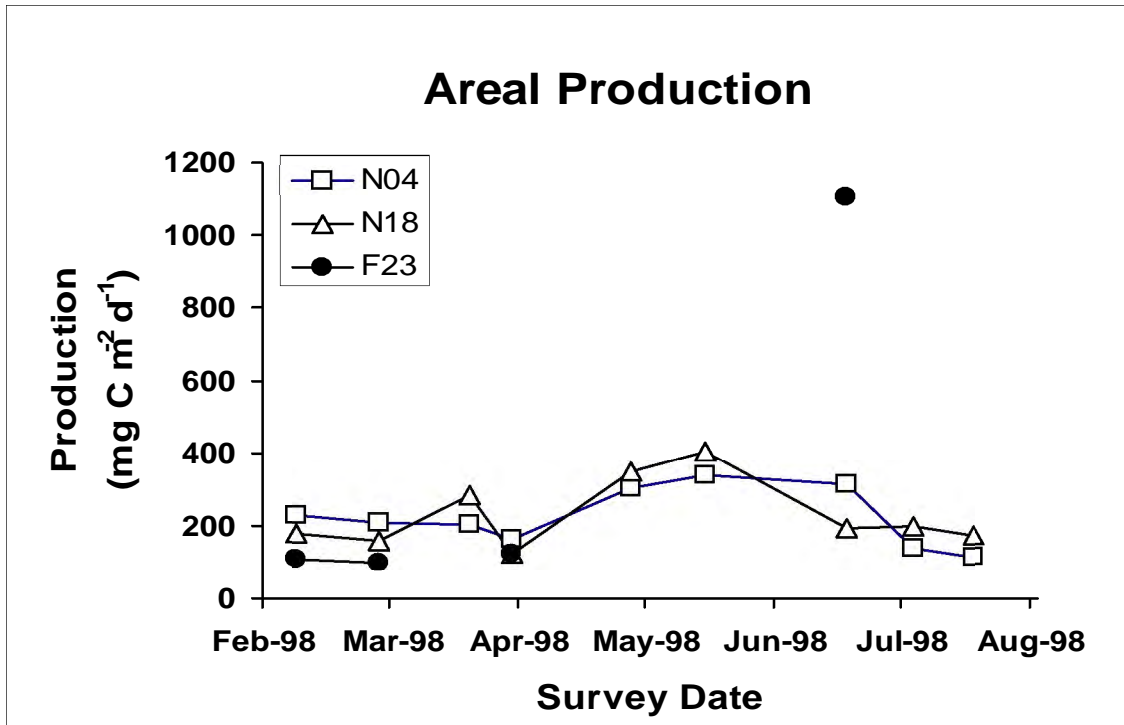


Figure 5-2. Time-Series of Areal Production (mgCm⁻²d⁻¹) for Productivity Stations

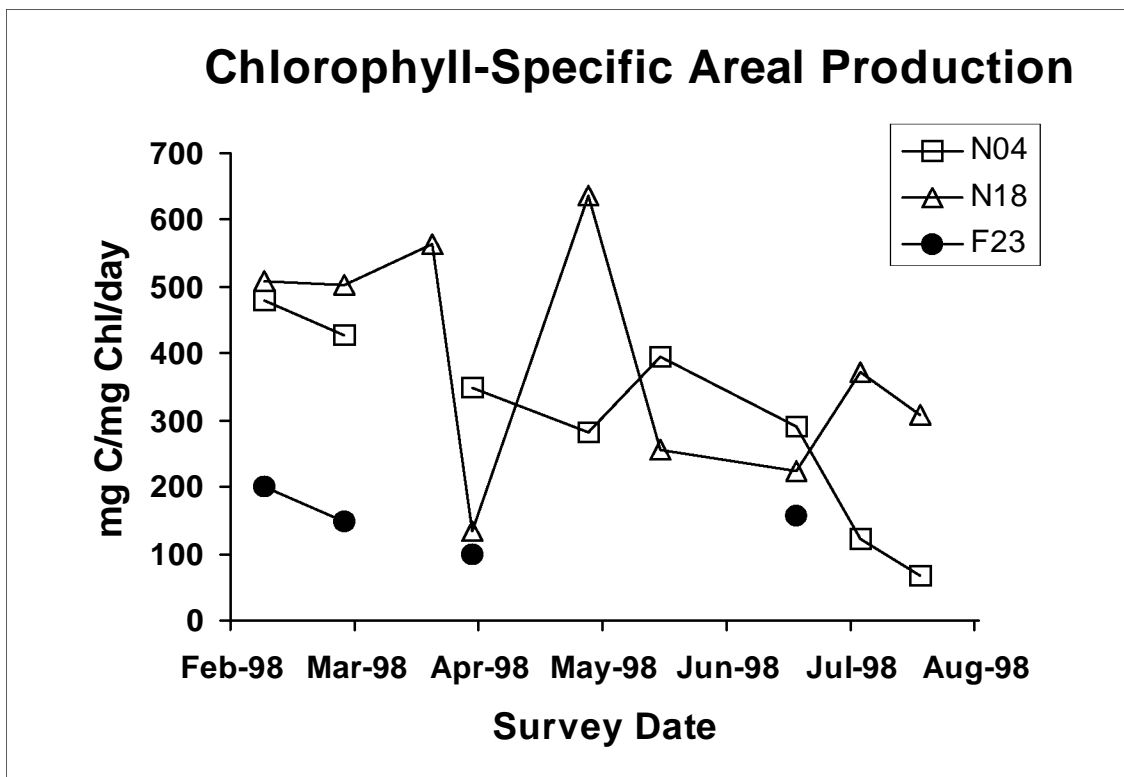


Figure 5-3. Time-Series of Chlorophyll-Specific Areal Production (mgCmgChl⁻¹d⁻¹) for Productivity Stations

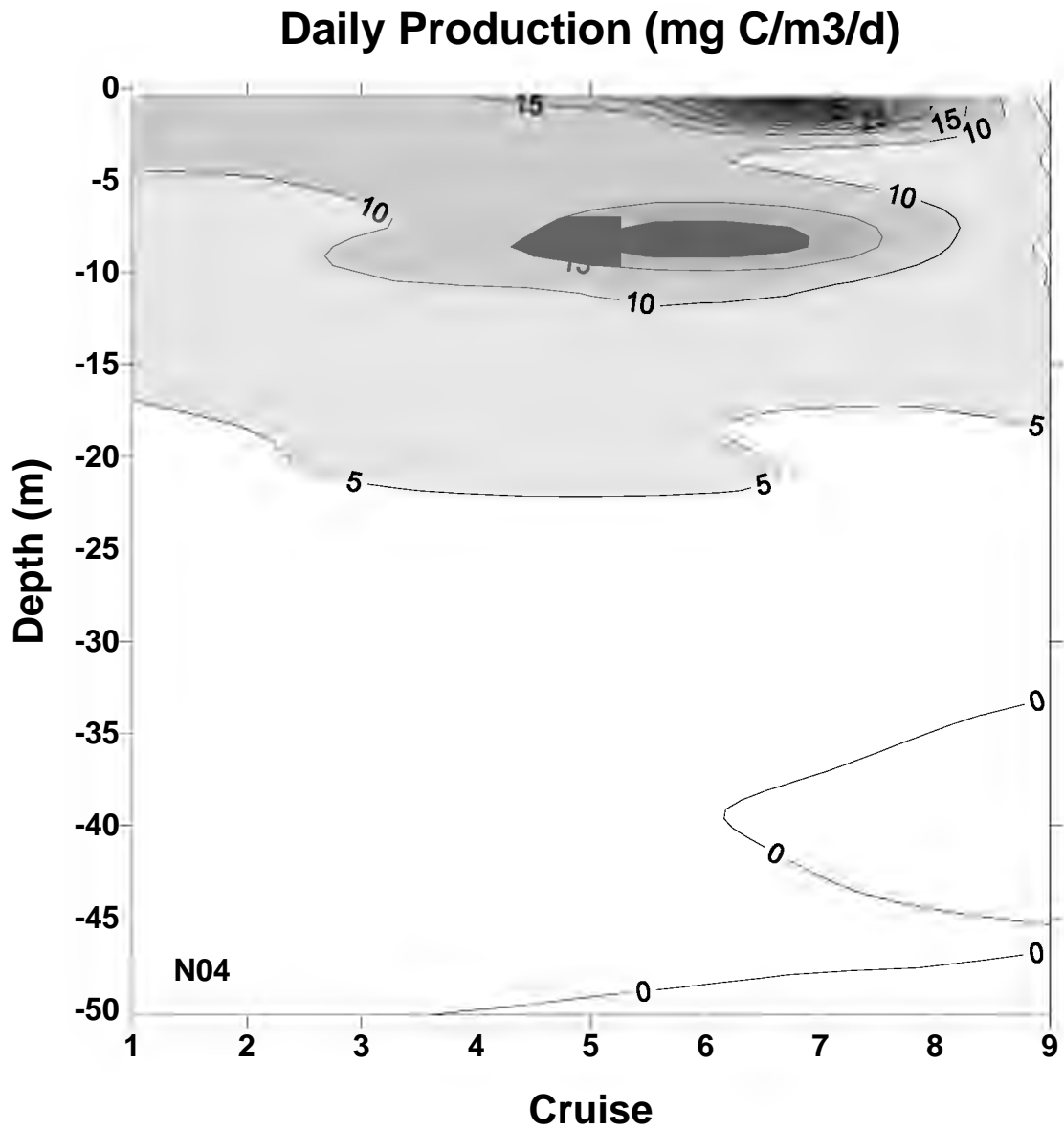


Figure 5-4. Time Series of Contoured Daily Production (mgCm⁻³d⁻¹) Over Depth at Station N04

Daily Production (mg C/m³/d)

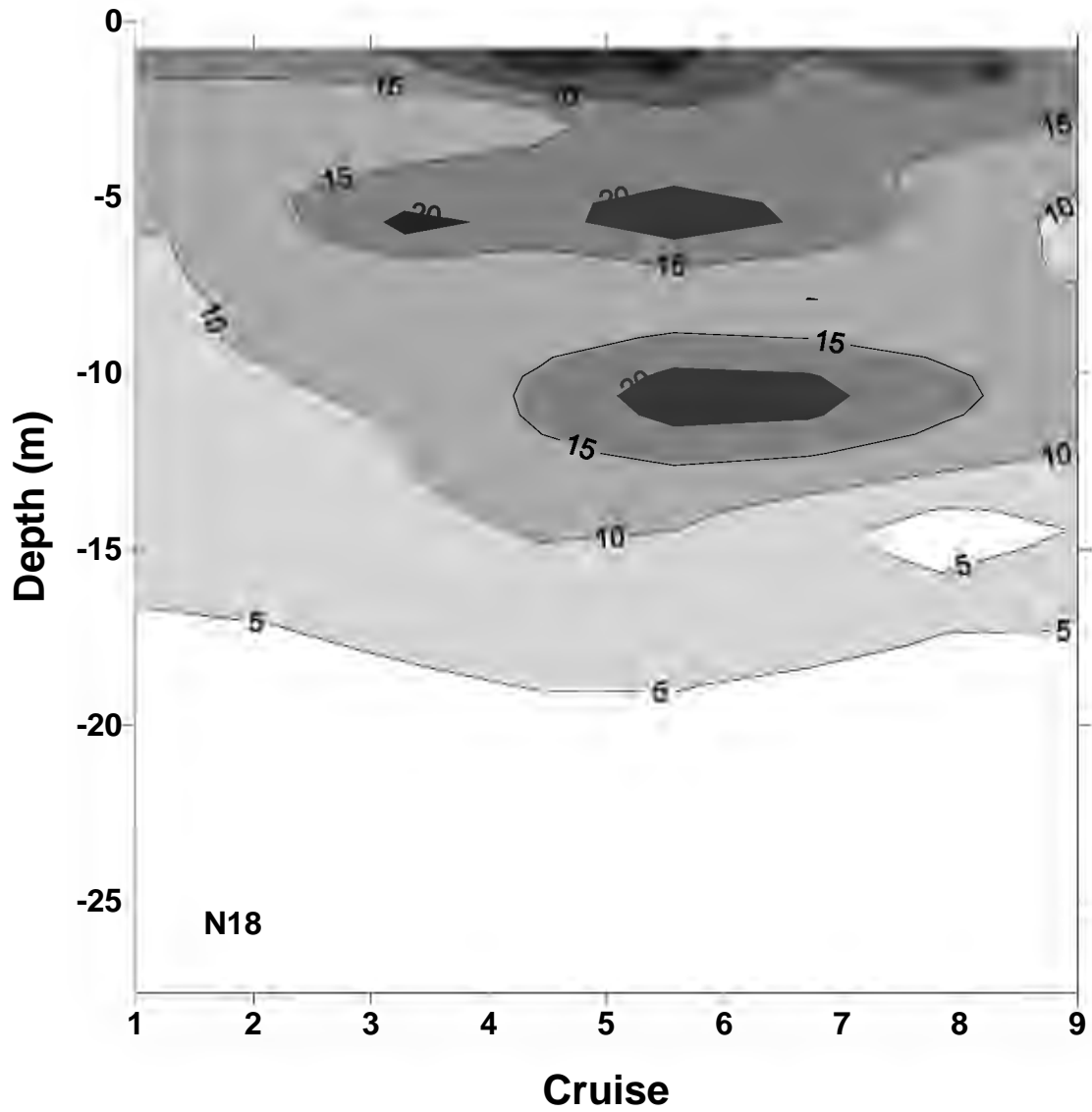


Figure 5-5. Time Series of Contoured Daily Production (mgCm⁻³d⁻¹) Over Depth at Station N18

Chlorophyll-Specific Production (mg C/mg Chl/d)

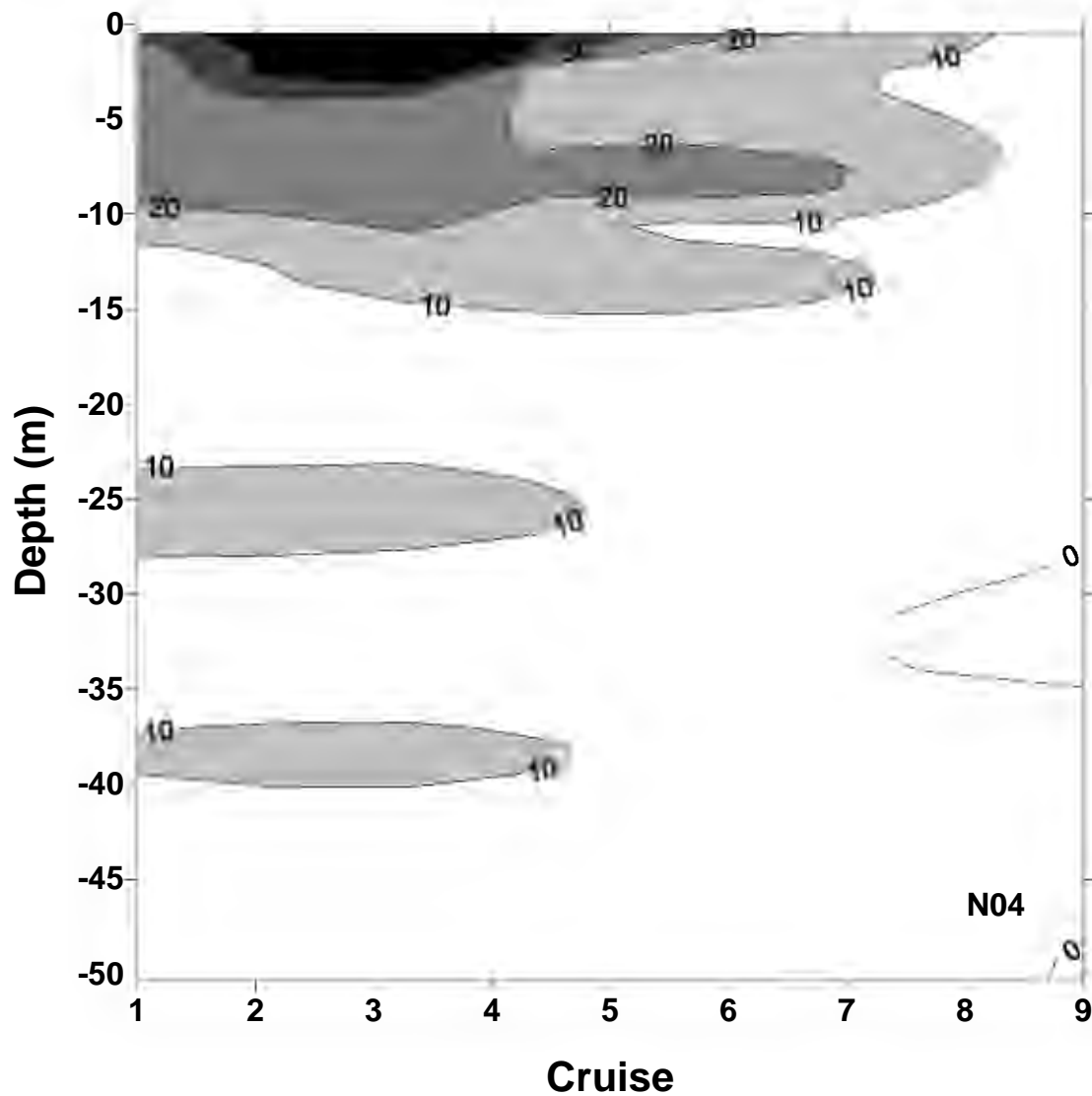


Figure 5-6. Time Series of Contoured Chlorophyll-Specific Production ($\text{mgCmgChl}^{-1}\text{d}^{-1}$) at Station N04

Chlorophyll-Specific Production (mg C/mg Chl/d)

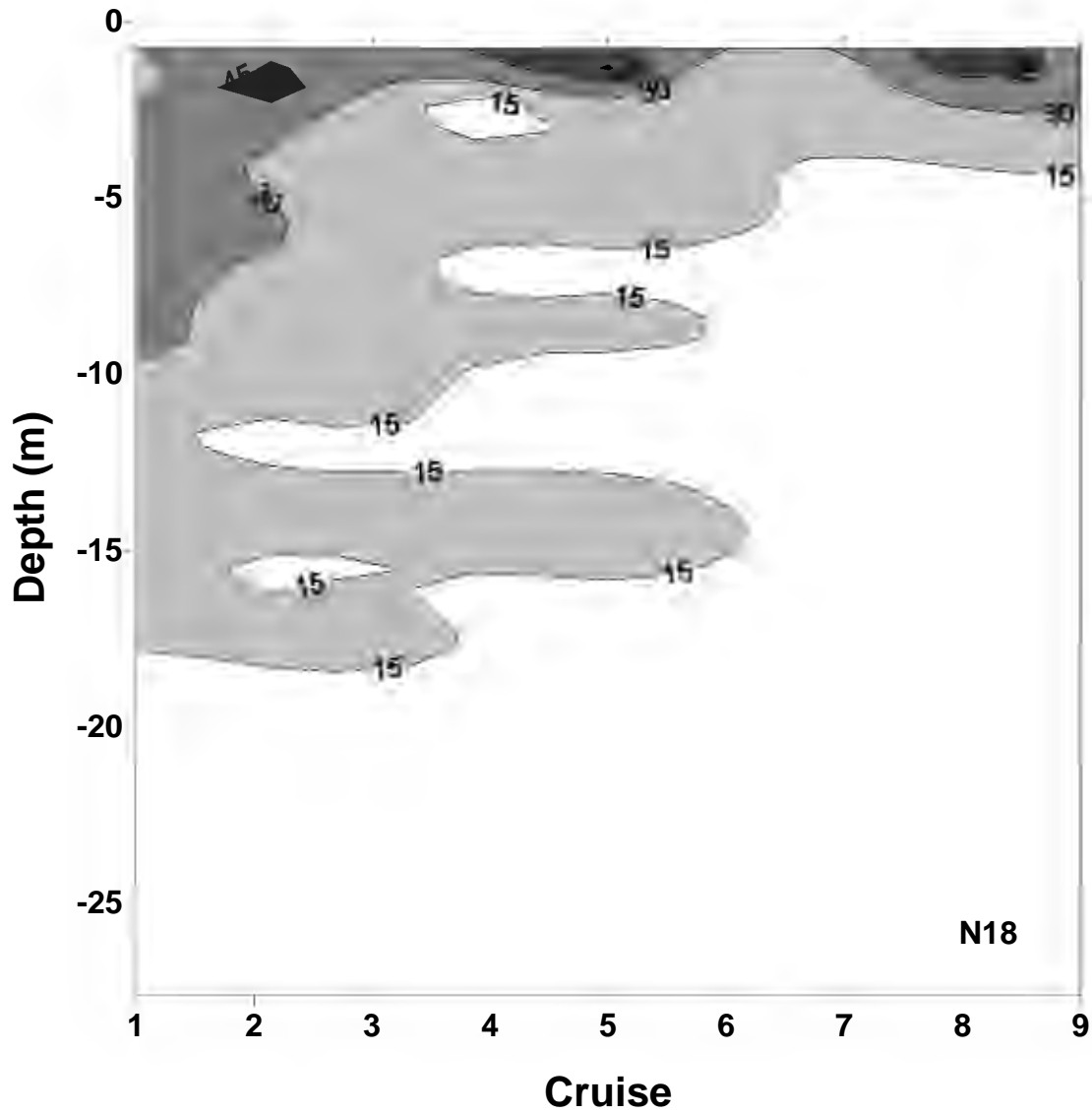


Figure 5-7. Time Series of Contoured Chlorophyll-Specific Production (mgCmgChl⁻¹d⁻¹) at Station N18

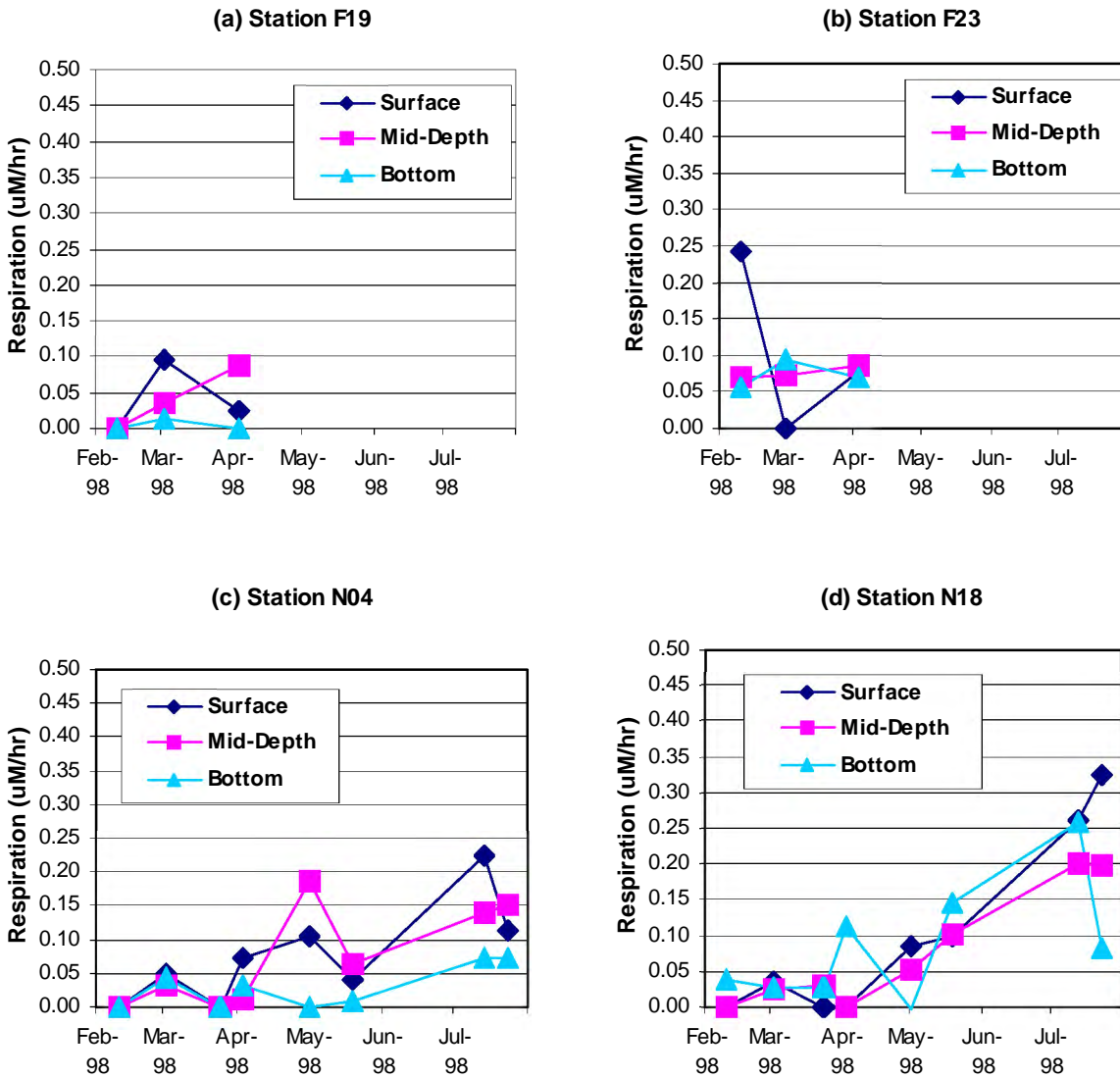


Figure 5-8. Time Series Plots of Respiration Stations F23, N02, and N18

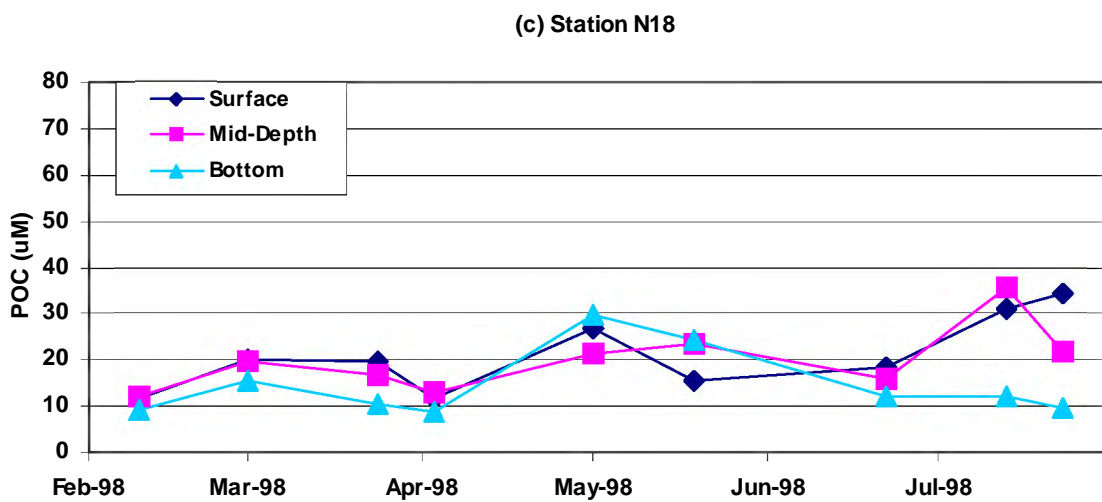
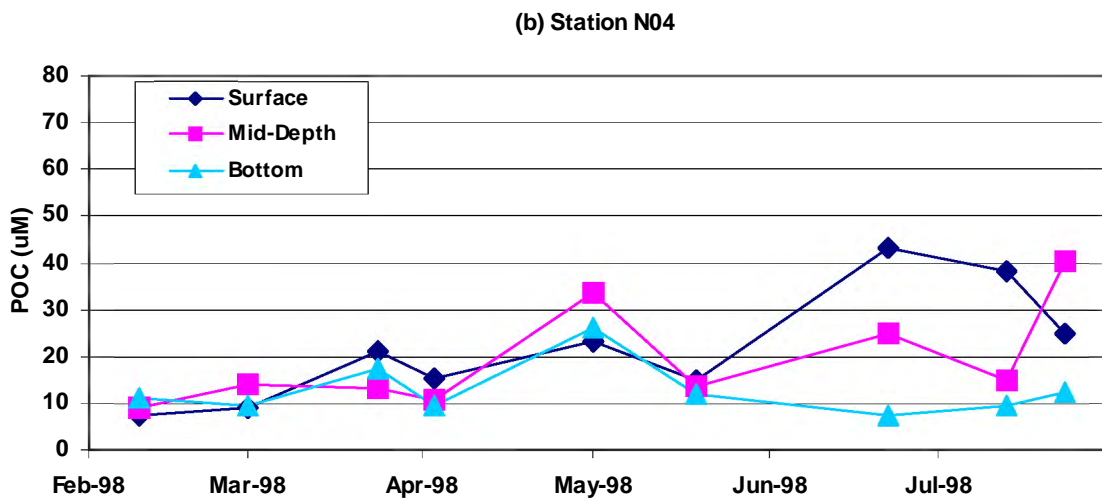
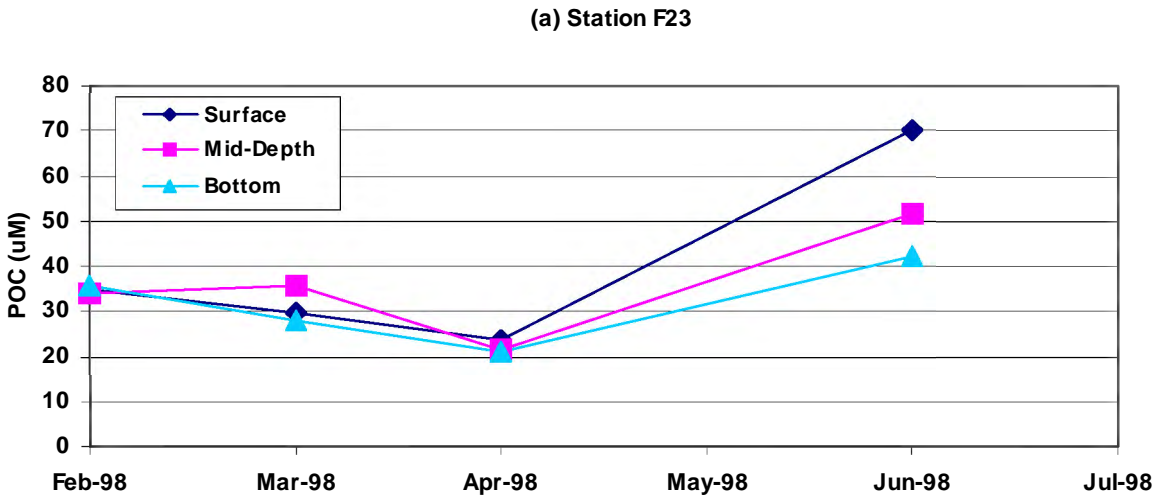


Figure 5-9. Time Series Plots of POC at Stations F23, N04, and N18

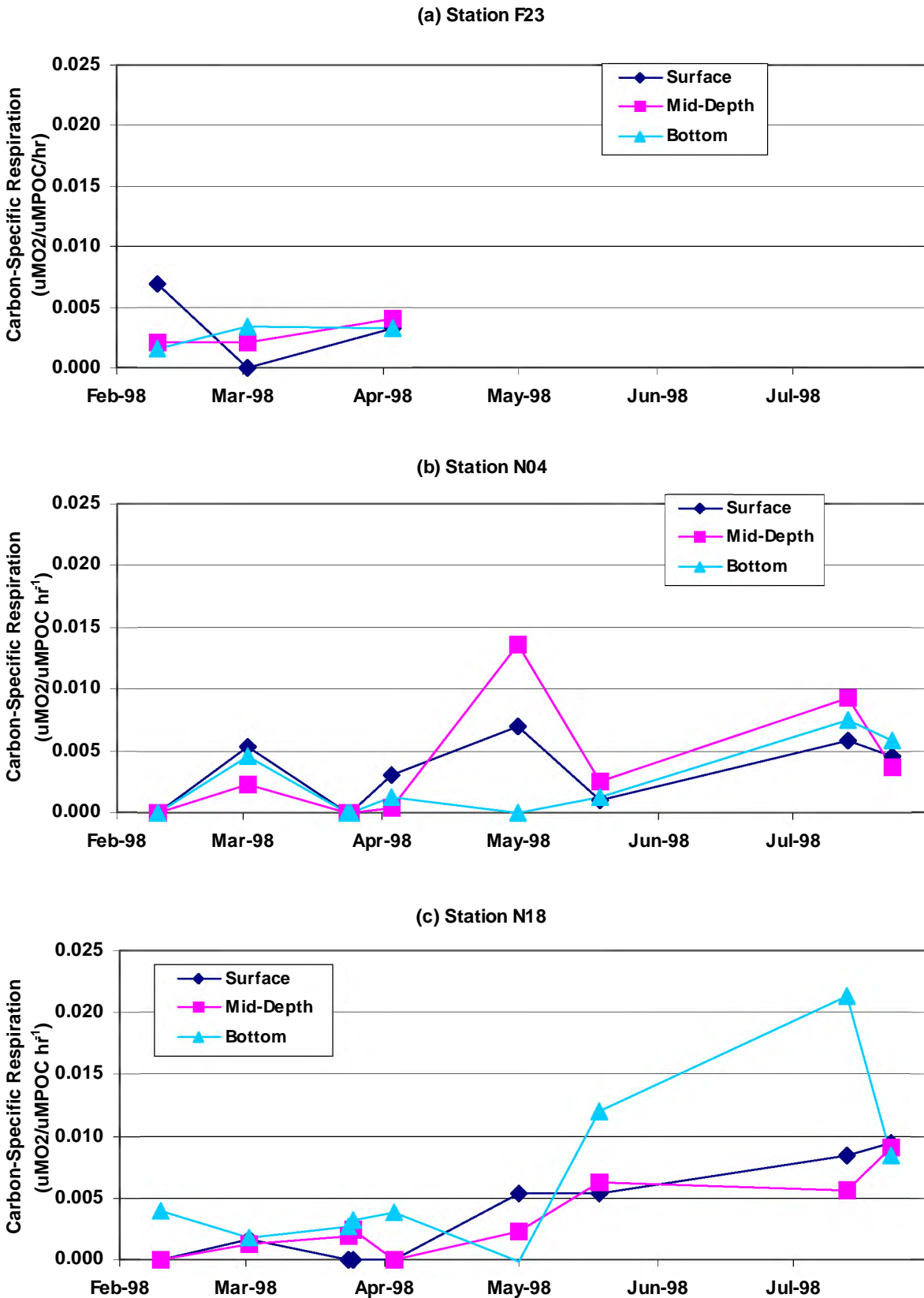


Figure 5-10. Time Series Plots of Carbon-Specific Respiration at Stations F23, N04, and N18

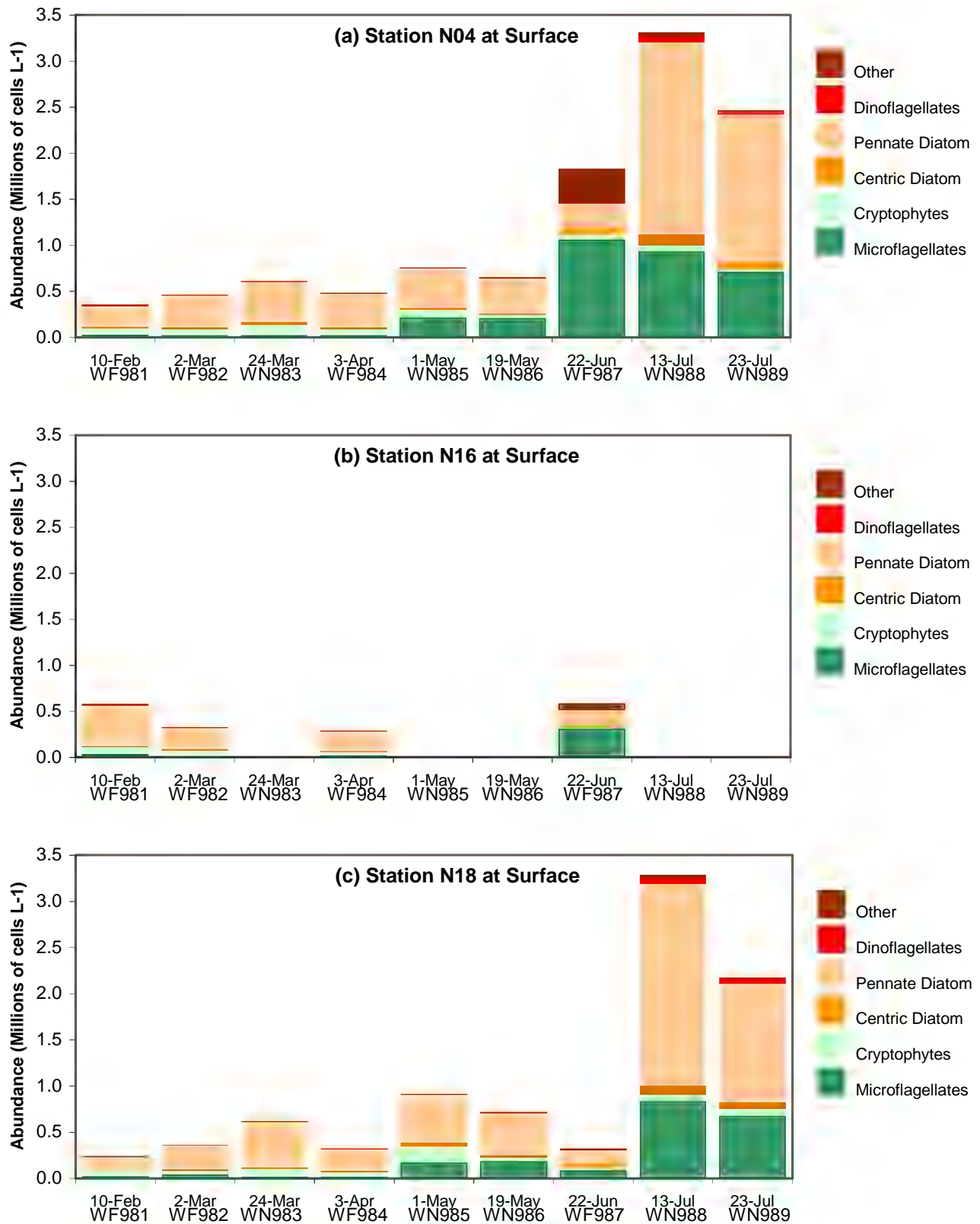


Figure 5-11. Phytoplankton Abundance By Major Taxonomic Group, Nearfield Surface Samples

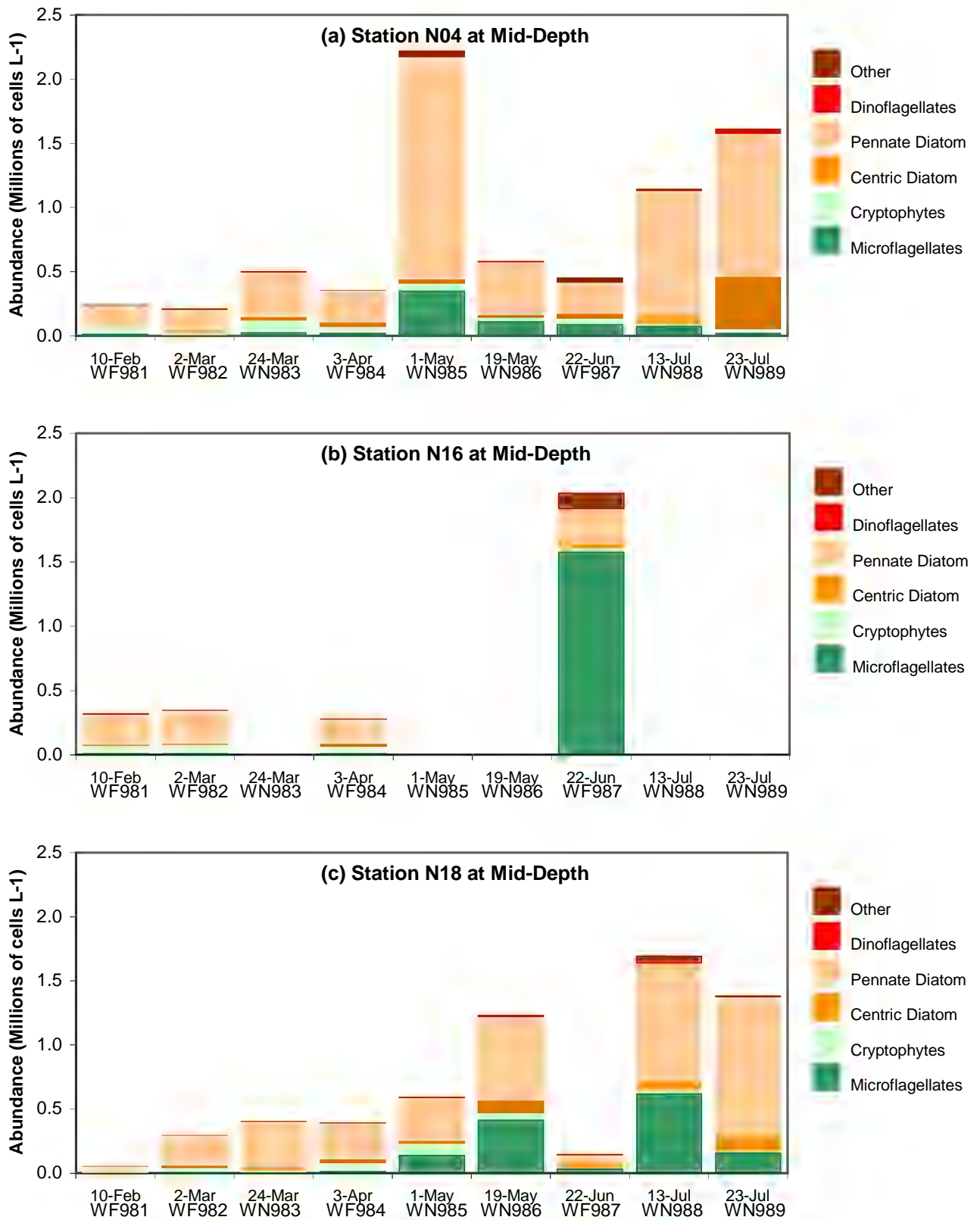


Figure 5-12. Phytoplankton Abundance By Major Taxonomic Group, Nearfield Mid-Depth Samples

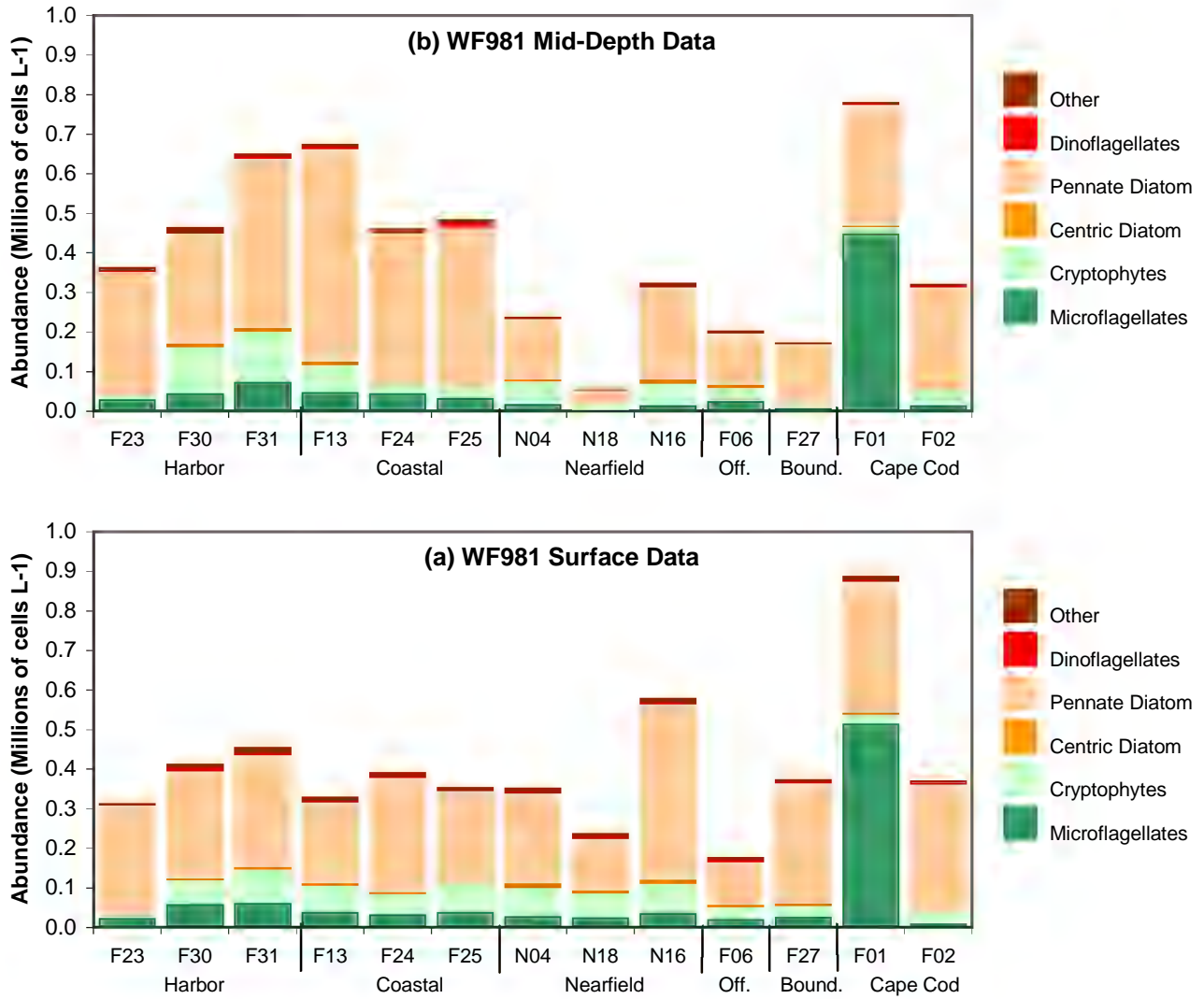


Figure 5-13. Phytoplankton Abundance By Major Taxonomic Group – WF981 Farfield Survey Results February 1 – 11, 1998

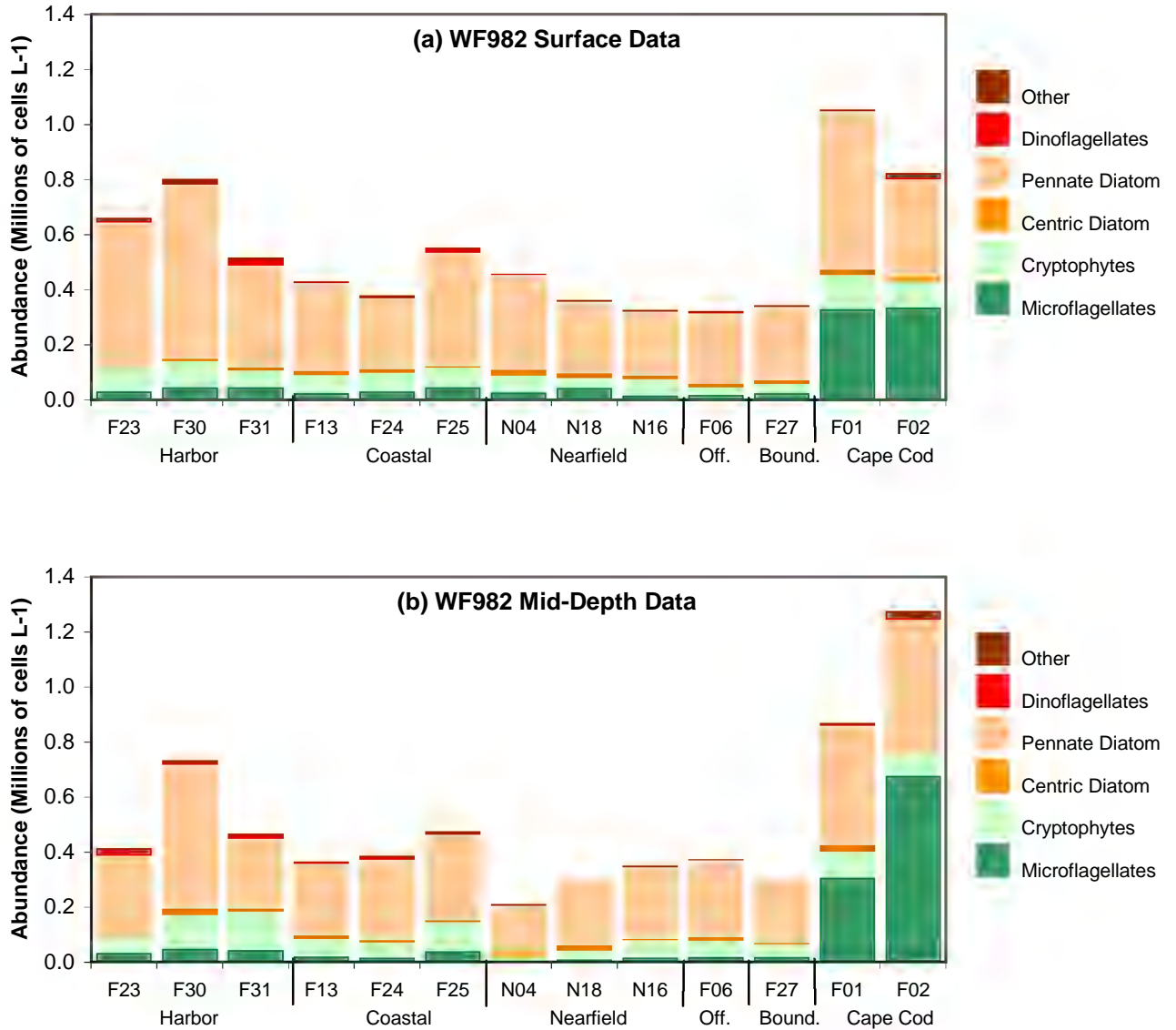


Figure 5-14. Phytoplankton Abundance By Major Taxonomic Group – WF982 Farfield Survey Results February 27 – March 2, 1998

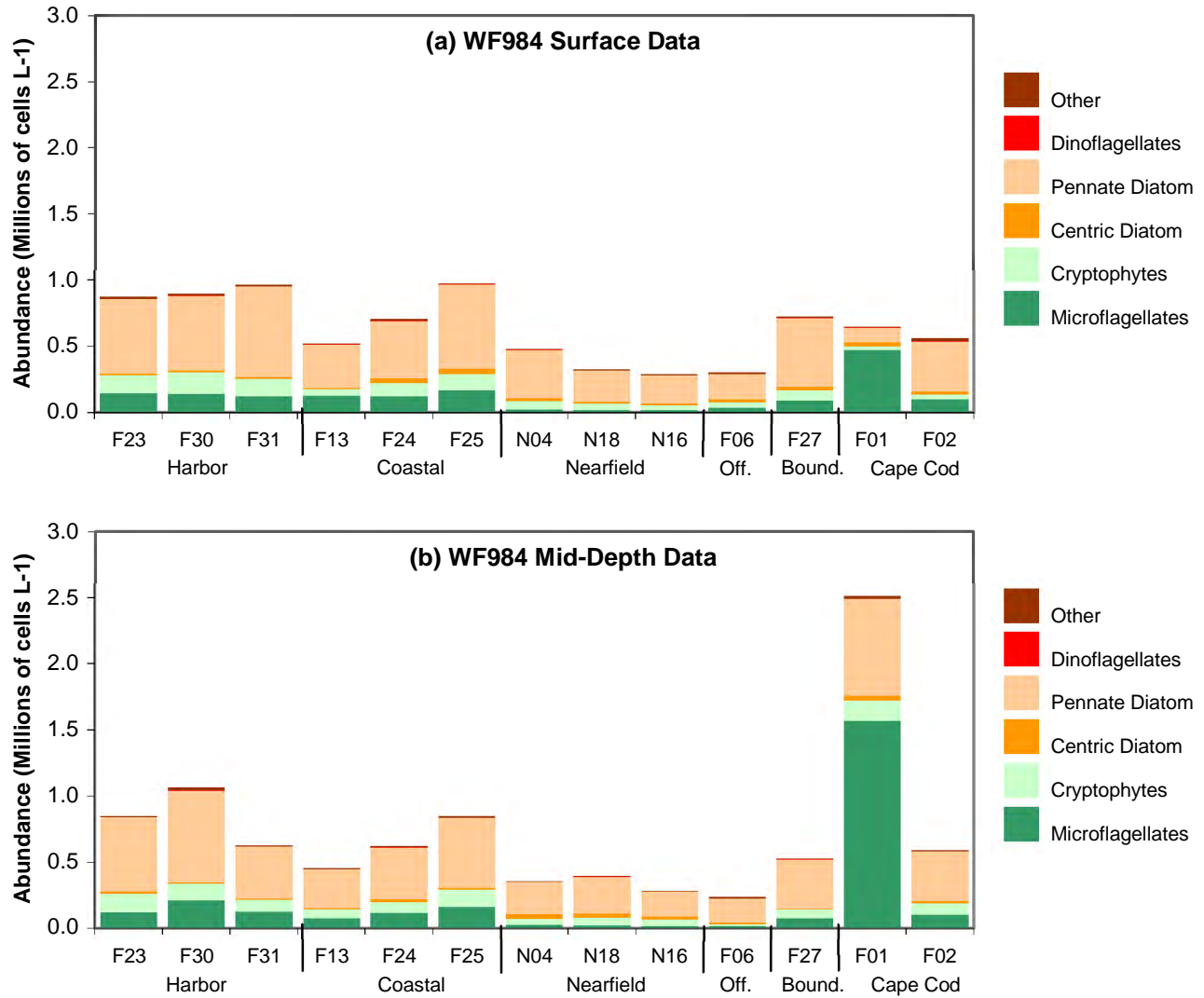


Figure 5-15. Phytoplankton Abundance By Major Taxonomic Group – WF984 Farfield Survey Results March 31 – April 3, 1998

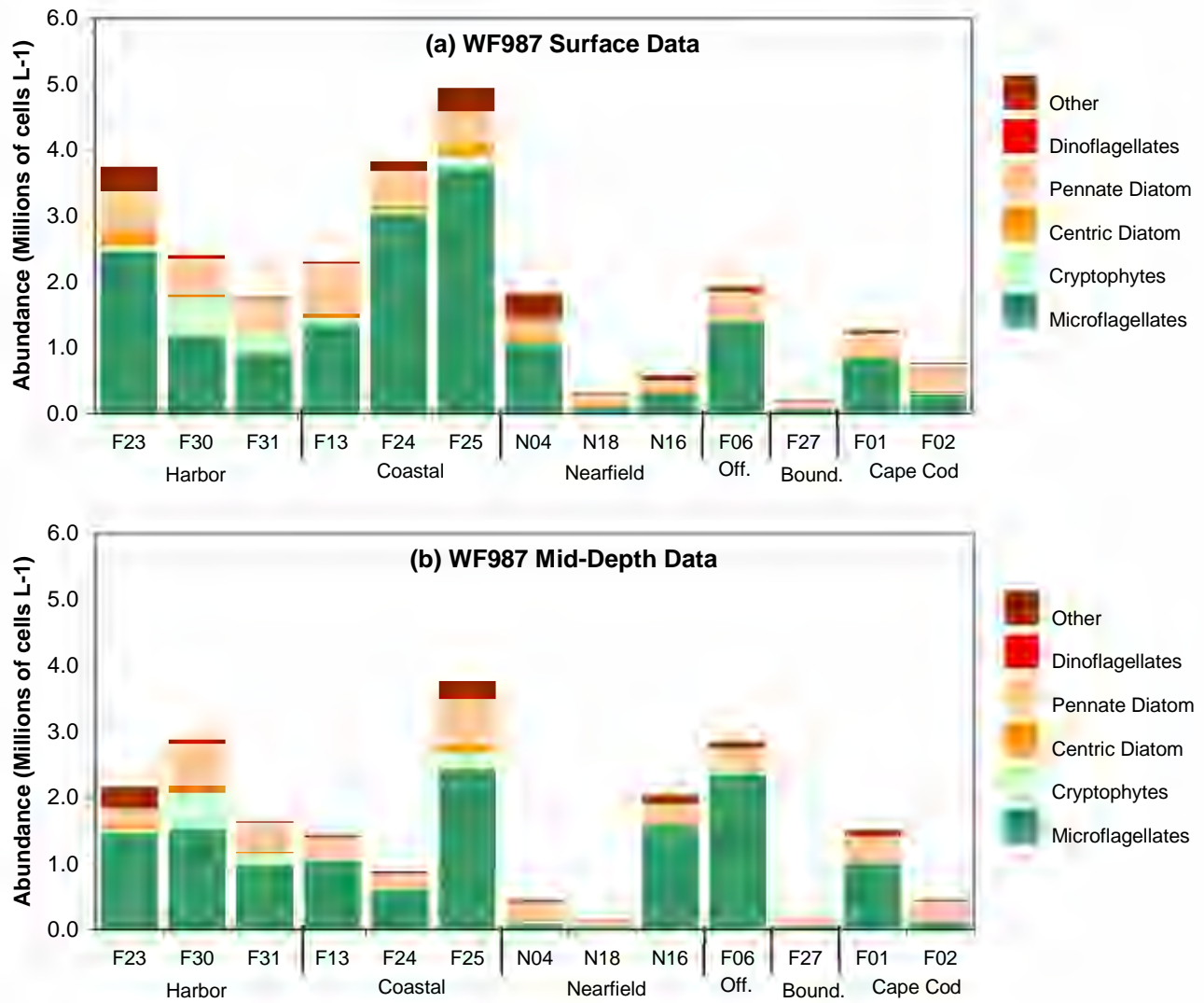


Figure 5-16. Phytoplankton Abundance By Major Taxonomic Group – WF987 Farfield Survey Results June 16 – 22, 1998

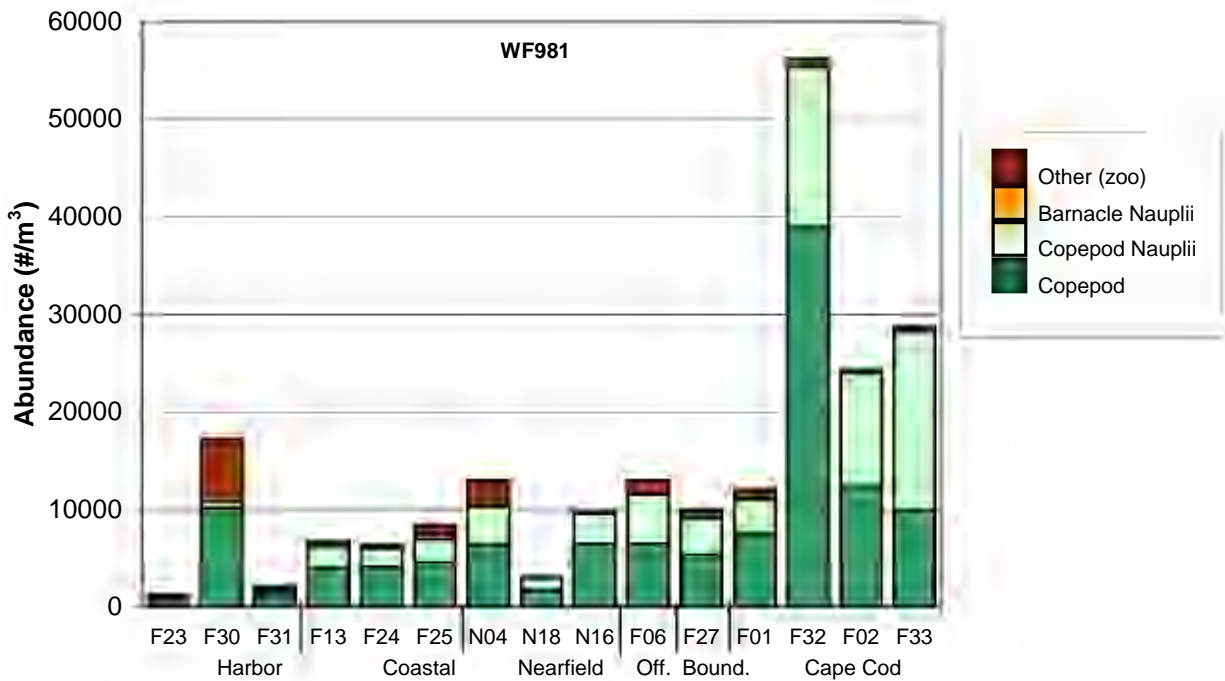


Figure 5-17. Zooplankton Abundance By Major Taxonomic Group – WF981 Farfield Survey Results February 1 – 11, 1998

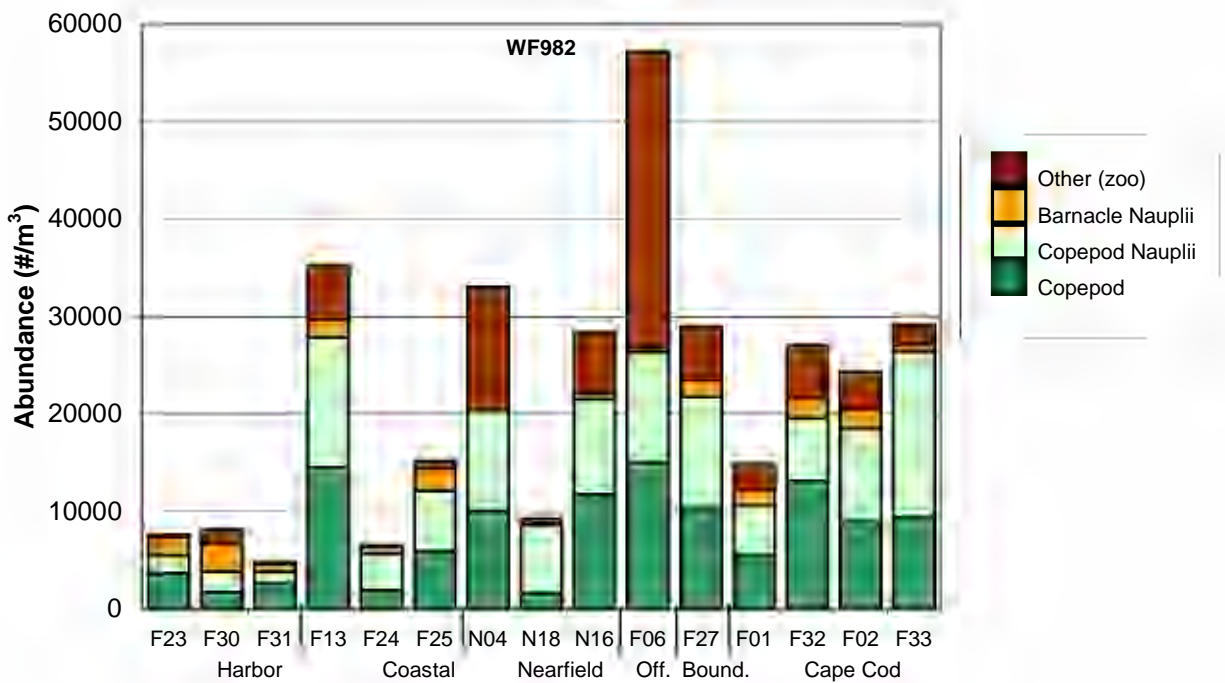


Figure 5-18. Zooplankton Abundance By Major Taxonomic Group – WF982 Farfield Survey Results February 27 – March 2, 1998

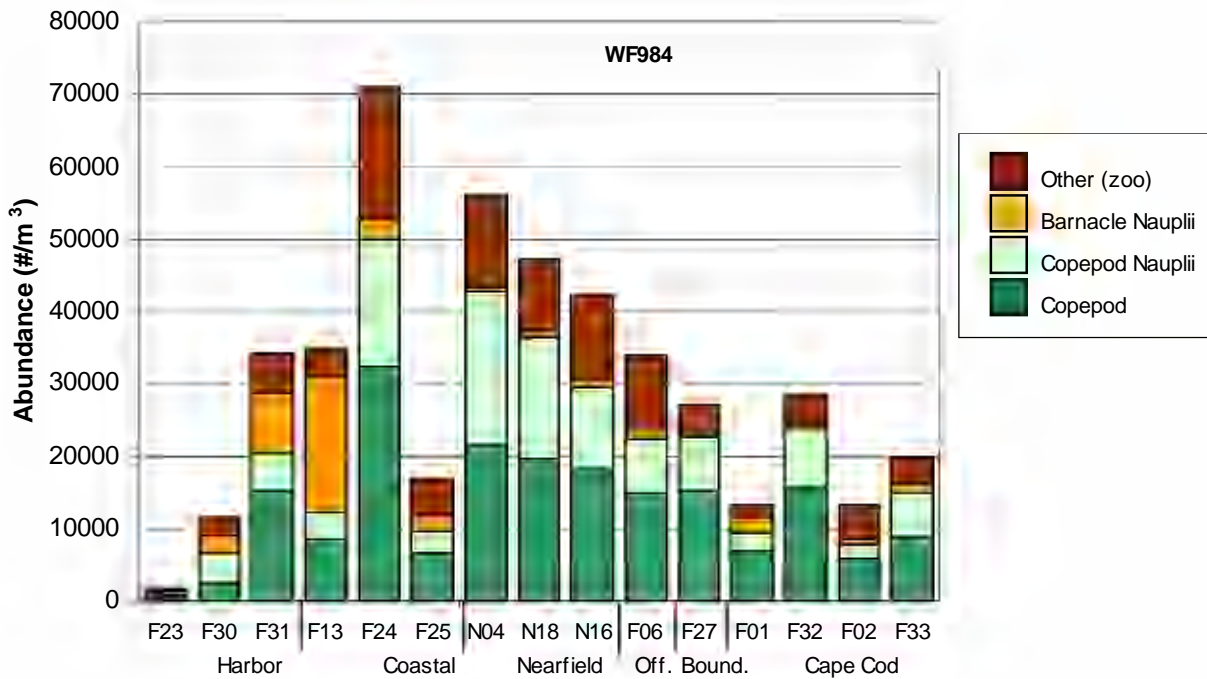


Figure 5-19. Zooplankton Abundance By Major Taxonomic Group – WF984 Farfield Survey Results March 31 – April 3, 1998

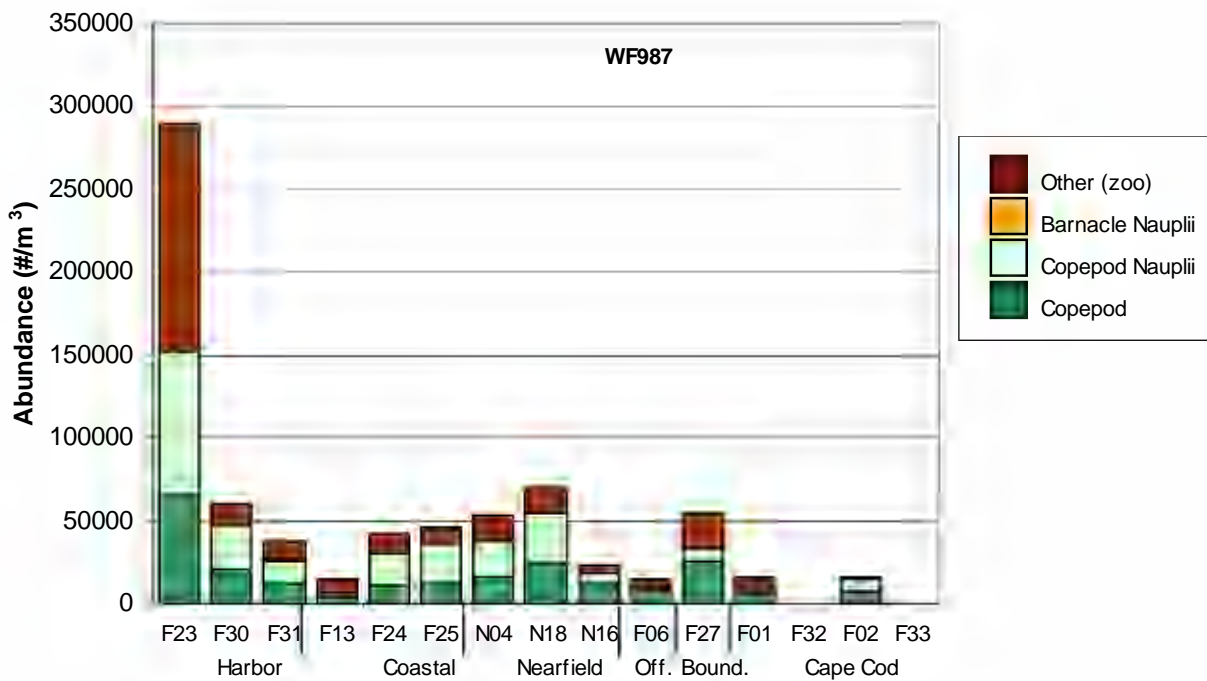


Figure 5-20. Zooplankton Abundance By Major Taxonomic Group – WF987 Farfield Survey Results June 16 – 22, 1998

6.0 SUMMARY OF MAJOR WATER COLUMN EVENTS

The winter to spring transition in Massachusetts and Cape Cod Bays is characterized by a typical series of physical, biological, and chemical events: seasonal stratification, the winter/spring phytoplankton bloom, and nutrient depletion. For the first half of 1998, however, conditions in the Bays were marked by the delayed onset of seasonal stratification, lack of a winter/spring phytoplankton bloom, and nutrient replete conditions. This section presents a summary of the integrated physical, biological, and chemical trends discussed in previous sections.

From February to March 1998, the water column was well mixed and relatively high concentrations of nutrients were measured. The availability of nutrients, however, did not result in elevated rates of biological production or a winter/spring phytoplankton bloom. Microflagellates and cryptomonads dominated the phytoplankton community and centric diatoms, which normally produce the winter/spring phytoplankton bloom, were only dominant at the Cape Cod Bay stations. Chlorophyll concentrations were low ($0\text{--}2\ \mu\text{gL}^{-1}$) throughout the Bays and productivity was low both in the nearfield ($<300\ \text{mgCm}^{-2}\ \text{d}^{-1}$) and Boston Harbor ($100\ \text{mgCm}^{-2}\ \text{d}^{-1}$). Chlorophyll-specific production, however, was relatively high at each of the nearfield stations suggesting that nutrient conditions were not limiting productivity and that other processes (e.g. water column instability, predation by zooplankton or micrograzers) may have been limiting production. The lack of a winter/spring phytoplankton bloom in 1998 represents a major aberration in the seasonal productivity pattern relative to previous years for the nearfield region and will be investigated in more detail in the 1998 Annual Water Column Report.

By early April (WF984), chlorophyll concentrations had increased with high concentrations being observed for subsurface waters in Cape Cod Bay ($17.0\ \mu\text{gL}^{-1}$) and the coastal area ($15.3\ \mu\text{gL}^{-1}$). Microflagellates remained the dominant phytoplankton in Massachusetts Bay and had increased in abundance from the February surveys. Total phytoplankton abundance, however, was still relatively low ($<10^6\ \text{cellsL}^{-1}$) at all but station F01 where elevated numbers of centric diatoms (and the high chlorophyll values) were observed. Dissolved inorganic nutrients were still present at non-limiting concentrations throughout most of the region. Productivity, however, was still low in the nearfield ($<300\ \text{mg C m}^{-2}\ \text{d}^{-1}$) and Boston Harbor ($125\ \text{mgCm}^{-2}\ \text{d}^{-1}$).

In early May (WN985), the water column in the nearfield was beginning to stratify and nutrient concentrations in the surface waters had decreased. Chlorophyll concentrations in the upper 20-m of the water column were low while the concentrations below the pycnocline ranged from $2\text{--}8\ \mu\text{gL}^{-1}$. The high productivity rates that were observed at these depths suggest that the increase in chlorophyll resulted from localized production that was coincident with elevated nutrient concentrations near the pycnocline. By the middle of May (WN986), stratified water column conditions were present across the nearfield. Coincident with the establishment of stratified conditions, chlorophyll concentration and areal production were at the highest values observed in the nearfield during the February to July reporting period. Chlorophyll concentrations were $14\text{--}33\ \mu\text{gL}^{-1}$ over the upper 15-m of the water column at the near-harbor station N10 and values $>14\ \mu\text{gL}^{-1}$ were observed in a subsurface chlorophyll max layer along the entire nearfield transect. The distribution of chlorophyll suggested a harbor or coastal influence with productive phytoplankton and/or nutrients being transported offshore to the nearfield area. The increased production during the May surveys led to a decrease in nutrient concentrations across the nearfield (except for SiO_4).

A combination of physical and biological factors contributed to the extended period of replete nutrients in the spring of 1998. As mentioned above, seasonal stratification did not develop until May, thus for much of the spring the water column was well mixed supplying nutrients to the surface waters. Additionally, storms in late February may have contributed not only to the instability of the water column, but also to increased terrestrial runoff of nutrients into the bays. Finally, areal productivity was relatively low throughout the region, there was no winter/spring diatom bloom, and the abundance of phytoplankton remained $< 10^6\ \text{cellsL}^{-1}$ until May, thus biological nutrient uptake was relatively low. The combination of

physical instability and biological inactivity resulted in elevated nutrient concentrations in the surface waters throughout most of the region.

Regionally, seasonal stratification was not observed until June (WF987). A significant rain event occurred prior to the June farfield/nearfield survey and, as a result of the rainfall and concomitant increase in runoff, low salinity surface waters were observed along the coast from Boston to Gloucester and into the northern and eastern portion of the nearfield. In these areas, the presence of low salinity surface waters served to intensify the already established water column stratification. Elevated SiO_4 concentrations were observed in the low salinity surface waters, but throughout the rest of the region dissolved inorganic nutrients were generally depleted. At Boston Harbor station F23, areal production reached a maximum value of $1,104 \text{ mgCm}^{-2}\text{d}^{-1}$ in June. Bottom water DO had increased between the April and June combined surveys. Normally, the DO concentrations decline in the bottom waters over this time period, but, consistent with the lack of a winter/spring phytoplankton bloom and the increased productivity observed during the WF987 survey, bottom water DO concentrations were higher throughout most of the farfield region in June.

During the July nearfield surveys, bottom water DO concentrations declined and more typical DO gradients were observed. Chlorophyll concentrations were relatively high in the upper 15 m of water leading to the higher surface water DO concentrations, though productivity was low during both July surveys ($<200 \text{ mgCm}^{-2}\text{d}^{-1}$). The decrease in bottom water DO concentrations was coincident with an increase in respiration rates in July.

7.0 REFERENCES

Albro, CS, Trulli, HK, Boyle, JD, Sauchuk, S, Oviatt, CA, Zimmerman, C, Turner, J, Borkman, D, Tucker, J. 1998. Combined work/quality assurance plan for baseline water column monitoring: 1998-2000. Boston: Massachusetts Water Resources Authority. Report ENQUAD ms-48. 121 p.

Falkowski, P. G., T. S. Hopkins, and J. J. Walsh. 1980. An analysis of factors affecting oxygen depletion in the New York Bight. *J. Mar. Res.* 38: 479-506.

Fanuko, N. 1989. Possible relation between a bloom of *Distephanus speculum* (silicoflagellata) and anoxia in bottom waters in the Northern Adriatic, 1983. *J. Plankton Res.* 11: 75-84.

Malone, T. C. 1978. The 1976 *Ceratium tripos* bloom in the New York Bight: Causes and consequences. NOAA Tech. Rept. NMFS Circular 410: 14 p.

Malone, T. C., W. Esaias, and P. Falkowski, 1979. Plankton dynamics and nutrient cycling. Part 1. Water column processes, p. 193-218. In: R. L. Swanson and C. J. Sindermann (eds.) Oxygen depletion and associated benthic mortalities in New York Bight, 1976. NOAA Prof. Pap. 11.

MWRA. 1997. Contingency Plan. Massachusetts Water Resources Authority, Boston, MA. 73 pp.

MWRA. 1997. Massachusetts Water Resources Authority effluent outfall monitoring plan: Phase II post discharge monitoring. Boston: Massachusetts Water Resources Authority. Report ENQUAD ms-44. 61 p.

APPENDIX A
Productivity Methods

METHODS

URI conducted a study of the reliability of using reduced sample volumes to measure primary productivity using ¹⁴C. The study found that analyses using 5-mL samples could produce results that were comparable to analyses using larger sample volumes. A summary of the study is in Appendix E of the Combined work/quality assurance plan for baseline water quality monitoring: 1998-2000 (Albro *et. al.*, 1998).

URI also measured the effects of sample holding time and increased incubation time on measurements of primary productivity using the photosynthetrons at URI. The results, summarized below, show that sample analysis must begin within 6 h of sample collection and incubation between 0.5 h and 2 h produce comparable results.

Incubation Time	
Time (h)	Productivity (g/C/m ² /h)
0.5	0.195
1	0.207
1.5	0.182
2	0.212

Holding Time	
Time (h)	Productivity (g/C/m ² /h)
0	0.207
4	0.182
6	0.210
8	0.177

Based on the results of these tests the following method has been used to collect and analyze water samples for productivity.

Primary Analysis by ¹⁴C – Field Procedures

From each of 5 depths at each productivity station, samples are obtained by filtration through 300-µm-mesh screen (to remove large zooplankton) from the Rosette sampling bottle into opaque 1-L polyethylene bottles. The bottles are rinsed twice prior to filling. The samples are then placed in a cooler and transferred to the URI laboratory within 5 hours of water sampling. Productivity samples are taken from the same bottles and depths as the other analyses.

Primary Analysis by ¹⁴C – Laboratory Procedures

Under subdued green light, each depth is processed separately starting with the surface water sample. Each sample is mixed thoroughly and then poured into a repipette set to deliver 5 mL. The repipette is rinsed twice with sample prior to use. The delivery tip of the repipette is flushed three times and 5 mL of sample will be pipetted into 20 mL borosilicate vials. A total of 16 bottles (14-16 light bottles, 2 dark bottles) are filled for each depth. These vials are incubated in a light and temperature controlled incubator. Light bottles from each depth are incubated at 14 to 16 light intensities (250 w Tungsten-halogen lamps attenuated with neutral density filters, range 0 to 2000 µE m⁻² s⁻¹) and all bottles are incubated within 2°C of the *in situ* temperature.

The 5 mL samples are incubated with 100 µL of 10 µCi/mL (1 µCi for 5 mL sample) Carbon-14 (¹⁴C) stock solution. All vials are then placed in the incubator for two hours. Time and temperature are recorded at the start and end of the incubation period. The light intensity within the incubator is measured before and after the incubation period. Temperature is constantly monitored throughout the incubation period and the location of each vial in the incubator is recorded. Upon removal from the incubator, 100 µL of 0.05N HCl, is added to each vial. Vials will remain loosely capped while shaken overnight. The following morning 15 mL Ecolume is

added to each vial, which is again loosely capped and shaken overnight. Two days following the cruise, vials are tightly capped and placed on the Beckman LS 3801 to be counted.

Calculation of Primary Production. Volume-specific primary production is calculated using equations similar to that of Strickland and Parsons (1972) as follows:

$$P(i) = \frac{1.05(DPM(i))DIC}{A_{sp}T}$$

$$P(d) = \frac{1.05(DPM(d))DIC}{A_{sp}T}$$

$$A_{sp} = DPM(sa) - DPM(back)$$

where:

$P(i)$ = primary production rate at light intensity i ($\mu\text{gC L}^{-1}\text{h}^{-1}$ or $\text{mgC m}^{-3}\text{h}^{-1}$)

$P(d)$ = dark production, ($\mu\text{gC L}^{-1}\text{h}^{-1}$ or $\text{mgC m}^{-3}\text{h}^{-1}$)

$DPM(i)$ = dpm in sample incubated at light intensity i

$DPM(d)$ = dpm in dark incubated sample

$DPM(back)$ = background dpm in vial containing only scintillation cocktail

$DPM(sa)$ = specific activity added to incubation samples (DPM)

T = incubation time (h)

DIC = concentration of dissolved inorganic carbon ($\mu\text{g/mL}$)

Table A-1 shows the frequency that primary productivity measurements and calculations are performed per vial, depth, station, and survey.

Table A-1. Measurement frequency for variables involved in calculation of primary production.

Measurement/ Calculation	Vial	Depth	Station	Survey
DPM(i)	✓			
P(i)	✓			
DIC		✓		
P(d)		✓		
DPM(d)		✓		
Asp			✓	
T			✓	
DPM(sa)			✓	
DPM(back)				✓

P-I curves. For each of the 5 depths for each photosynthesis station a P-I curve is obtained from the data $P(I) = P(i) - P(d)$ vs. the irradiance (I , $\mu\text{E m}^{-2}\text{s}^{-1}$) to which the incubating sample is exposed. The P-I curves are fit via one of two possible models, depending upon whether or not significant photo-inhibition occurs. In cases where photoinhibition is evident the model of Platt *et al.* (1980) is fit (SAS 1985) to obtain the theoretical maximum production, and terms for light-dependent rise in production and degree of photoinhibition:

$$P(I) = P_{sb} (1 - e^{-a}) e^{-b}$$

where:

$P(I)$ = primary production at irradiance I, corrected for dark fixation (P(i)-P(d))

P_{sb} = theoretical maximum production without photoinhibition

$a = \alpha I / P_{sb}$ and α is the initial slope, the light-dependent rise in production

$b = \beta I / P_{sb}$ and β is a term relating the degree of photoinhibition

If β is not significantly different from zero, an alternative model of Webb *et al.* (1974) is similarly fit to obtain the maximum production and the term for light-dependent rise in production:

$$P(I) = P_{max} (1 - e^{-a'})$$

where:

$P(I)$ = primary production at irradiance I corrected for dark fixation (P(i)-P(d))

P_{max} = light saturated maximum production

$a' = \alpha I / P_{max}$ and α is the initial slope the light-dependent rise in production

P_{max} and P_{sb} are not equivalent but they are mathematically related using the equation:

$$P_{max} = P_{sb} [\alpha / (\alpha + \beta)] [\beta / (\alpha + \beta)]^{\beta/\alpha}$$

Light vs. Depth Profiles. To obtain a numerical representation of the light field throughout the water column averaged CTD light profiles (0.5 m intervals) are fit (SAS 1985) to an empirical sum of exponentials equation of the form:

$$I_z = A_1 e^{-a_1 Z} + A_2 e^{-a_2 Z} + \dots$$

which is an expansion of the standard irradiance vs. depth equation:

$$I_z = I_0 e^{-kZ}$$

where:

I_z = light irradiance at depth Z

I_0 = incident irradiance (Z = 0)

k = extinction coefficient

$A_1, A_2 \dots$ = factors relating to incident irradiance ($I_0 = A_1 + A_2 + \dots$)

$a_1, a_2 \dots$ = coefficients relating to the extinction coefficient ($k = a_1 + a_2 + \dots$)

The expanded equation is used in most instances as spectral shifts, pigment layering and other factors result in deviation from the idealized standard irradiance vs. depth equation. The simplest form of the expanded equation is implemented to adequately model the light field, which in the large majority of cases is the sum of two exponentials.

Daily Incident Light Field. During normal CTD hydrocasts the incident light field is routinely measured via a deck light sensor at high temporal resolution. The average incident light intensity is determined for each of the CTD casts to provide, over the course of the photoperiod (12-hr period centered upon solar noon), a well resolved irradiance time series consisting of 12-17 data points. A 48-point time series (every 15 min) of incident is obtained from these data by linear interpolation. A similar time series of light data is collected at Deer Island, and is used as the photoperiod incident light (I_0) time series described below. The Deer Island data are collected using a 4π sensor and the light intensity measured in the incubator is collected with a cosine sensor. The cosine values are converted to 4π readings using an empirically determined equation:

$$4\pi = 17.58 + 1.0529 (\cos) - 0.00008 (\cos)^2$$

with both 4π and cosine light intensity in units of $\mu\text{E m}^{-2} \text{sec}^{-1}$. The r^2 for the empirical equation is 0.99. The light data are converted prior to fitting the P-I curves.

Calculation of Daily Primary Production. Given the best fit parameters (P_{sb} or P_{max} , α , β) of the P-I curves obtained for each of the five sampling depths, the in situ light intensity (*i.e.*, I_z) at each depth determined from the sum of exponential fits on the in situ light field, and the photoperiod incident light (I_0) time series, it is possible to compute daily volumetric production for each depth. To do this at a given depth, hourly production is determined for the in situ light intensity computed for each 15 min interval of the photoperiod, using the appropriate P-I parameters and in situ irradiance. Daily production ($\mu\text{g C L}^{-1} \text{d}^{-1}$) is obtained by integration of the determined activity throughout the 12-hour photoperiod. An advantage of this approach is that seasonal changes in photoperiod length are automatically incorporated into the integral computation. For example, during winter months computed early morning and late afternoon production contributes minimally to whole day production, whereas during summer months the relative contribution during these hours is more significant. The investigator does not have to decide which factor to employ when converting hourly production to daily production. The primary assumption of the approach is that the P-I relationship obtained at the time of sample procurement (towards the middle of the photoperiod) is representative of the majority of production occurring during the photoperiod, which should be the case.

Calculation of Daily Areal Production. Areal production ($\text{mg C m}^{-2} \text{d}^{-1}$) is obtained by trapezoidal integration of daily volumetric production vs. depth down to the 1% light level.

Calculation of Chlorophyll-Specific Parameters. Chlorophyll-specific measures of the various parameters (including the P-I parameters) is determined by dividing by the appropriate chlorophyll term obtained from independent measurements.

References

Albro CS, Trulli HK, Boyle JD, Sauchuk SA, Oviatt CA, Keller AA, Zimmerman C, Turner J, Borkman D, Tucker J. 1998. Combined work/quality assurance plan for baseline water quality monitoring 1998-2000. Boston: Massachusetts Water Resources Authority. Report ENQUAD ms-48. 121 p.

Platt, T., C.L. Gallegos, and W.G. Harrison. 1980. Photoinhibition of photosynthesis and light for natural assemblages of coastal marine phytoplankton. *J. Mar. Res.* 38:687-701.

SAS. 1985. *SAS Users Guide: Statistics*. SAS Institute, Inc., Cary, NC. 956 pp.

Webb, W.L., M. Newron, and D. Starr. 1974. Carbon dioxide exchange of *Alnus rubra*: a mathematical model. *Oecologia* 17:281-291.

APPENDIX B

Surface Contour Plots – Farfield Surveys

Surface Contour Plots – Farfield Surveys

All contour plots were created using data from the surface bottle sample (A). Each plot is labeled with the survey number (WF981 through WN989), and parameter. The minimum and maximum value, and the station where the value was measured are provided for each plot, as well as the contour interval and parameter units.

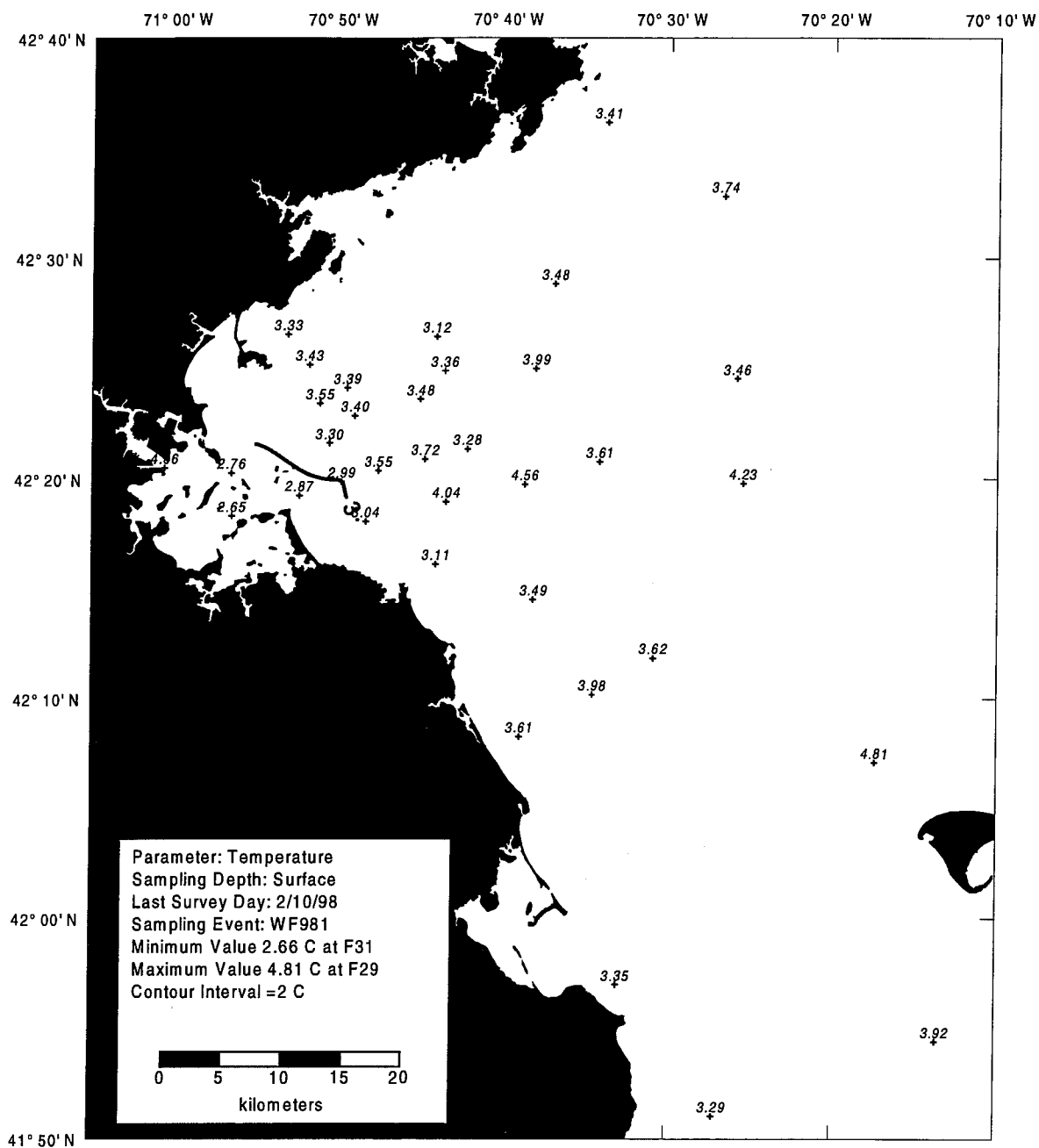


Figure B-1. Temperature Surface Contour Plot for Farfield Survey WF981 (Feb 98)

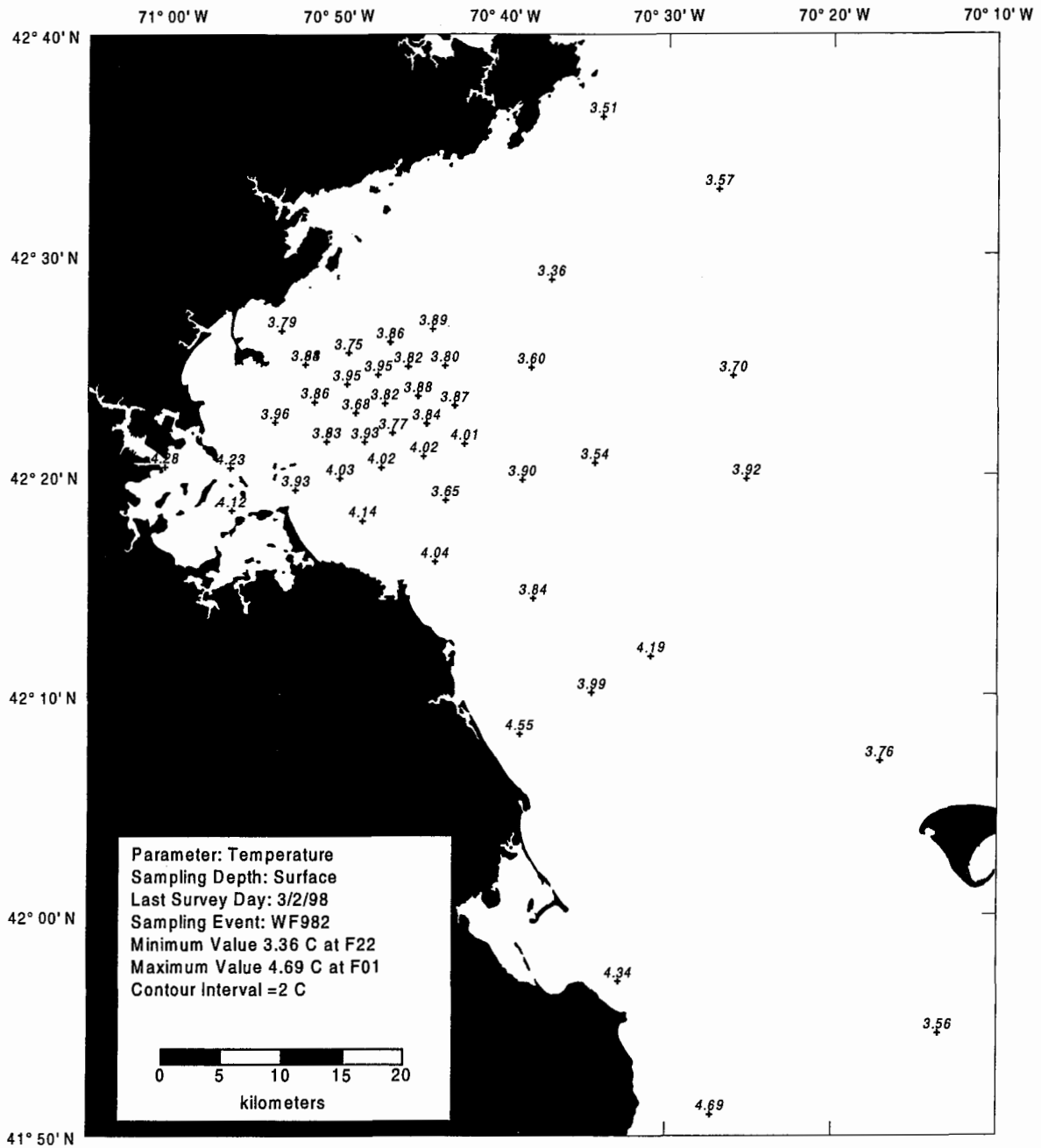


Figure B-2. Temperature Surface Contour Plot for Farfield Survey WF982 (Feb 98)

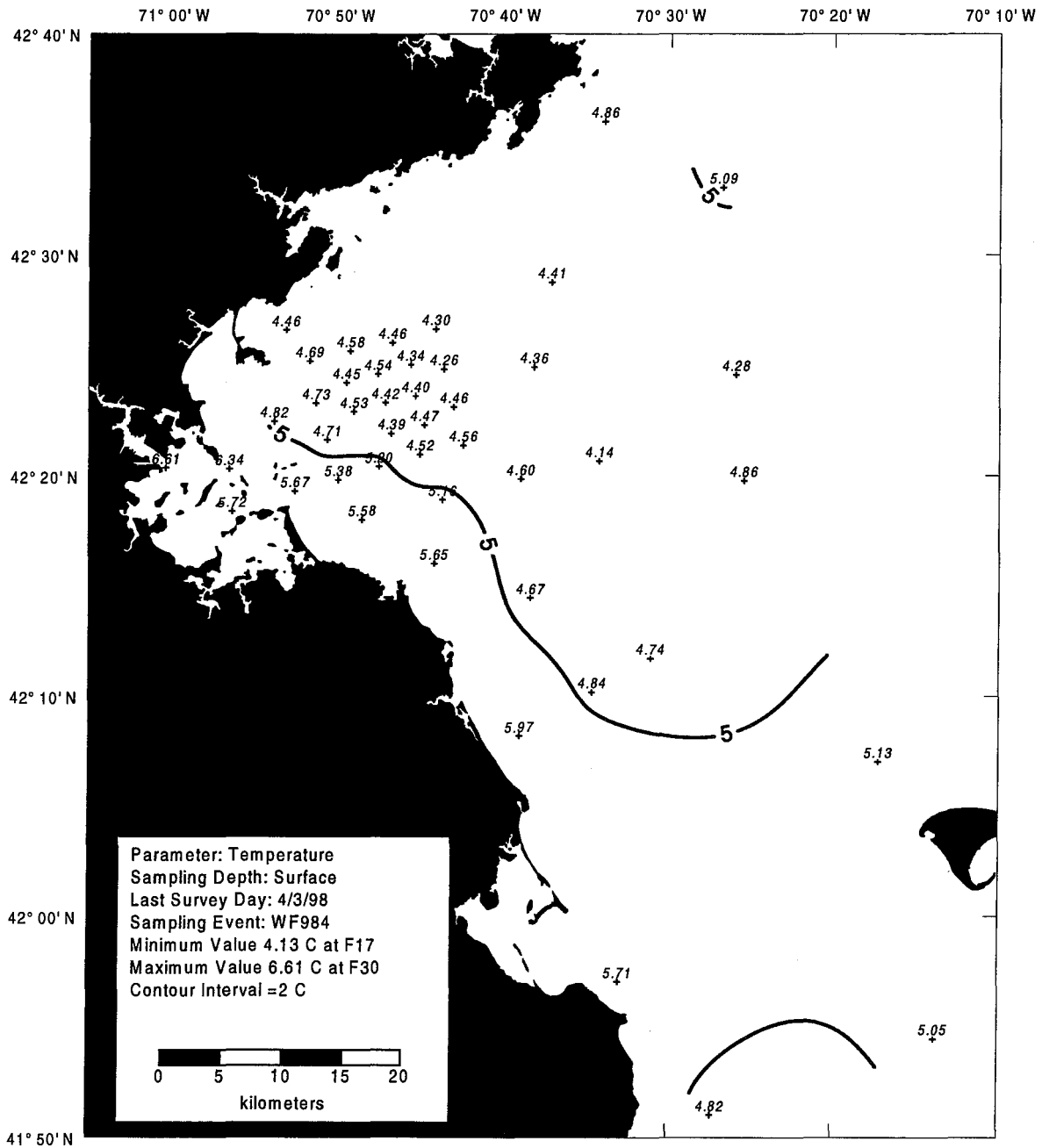


Figure B-3. Temperature Surface Contour Plot for Farfield Survey WF984 (Apr 98)

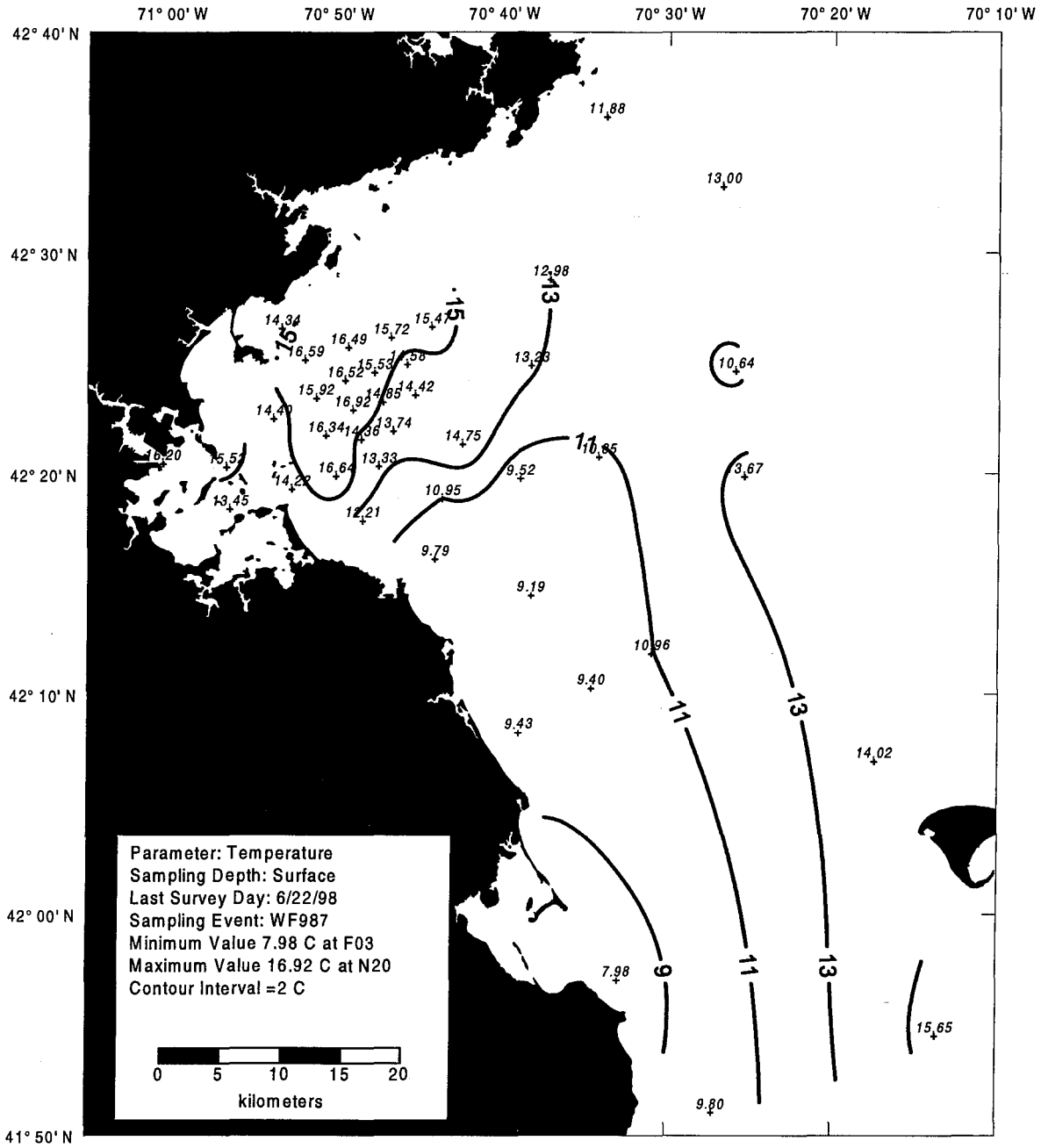


Figure B-4. Temperature Surface Contour Plot for Farfield Survey WF987 (Jun 98)

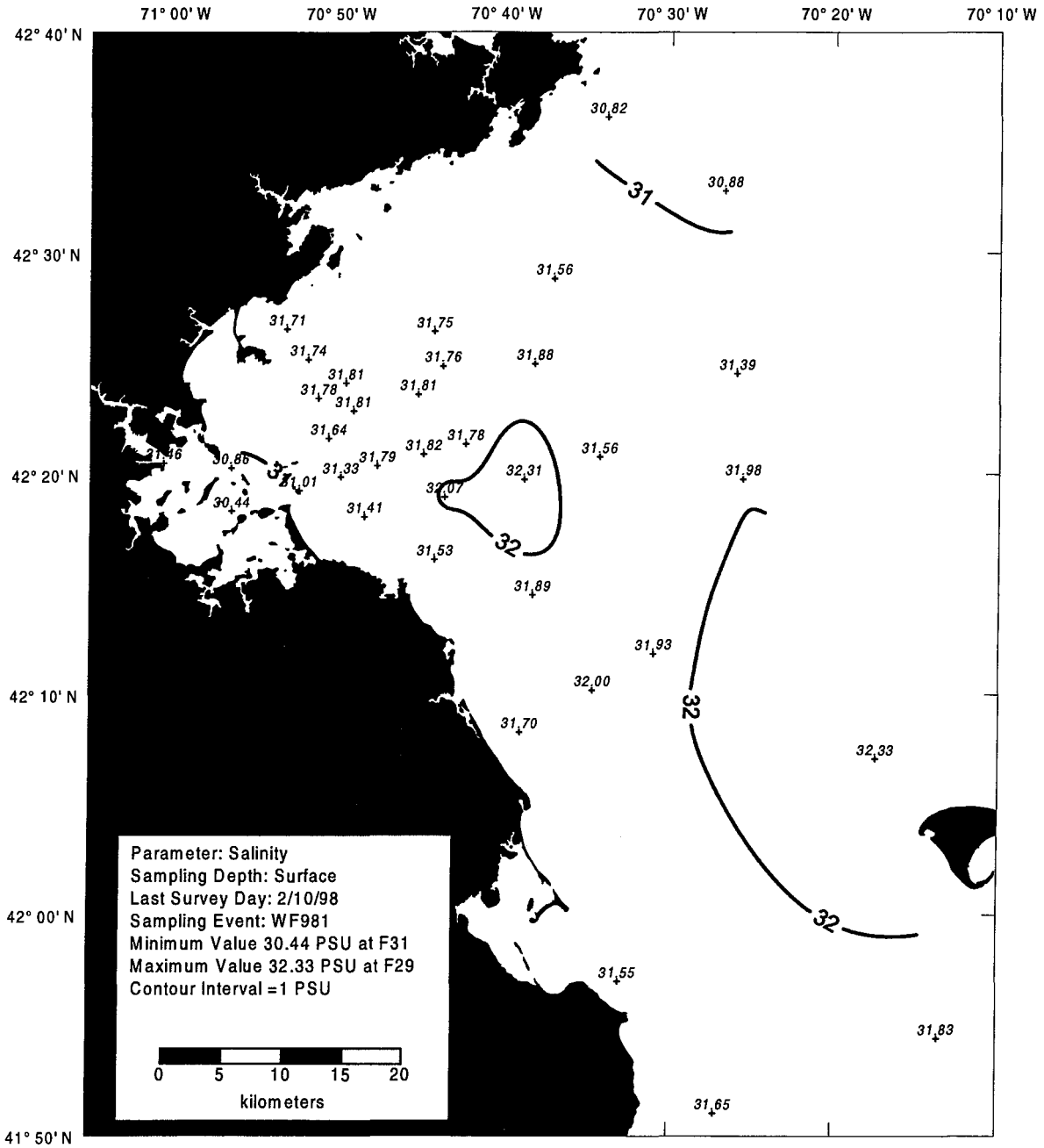


Figure B-5. Salinity Surface Contour Plot for Farfield Survey WF981 (Feb 98)

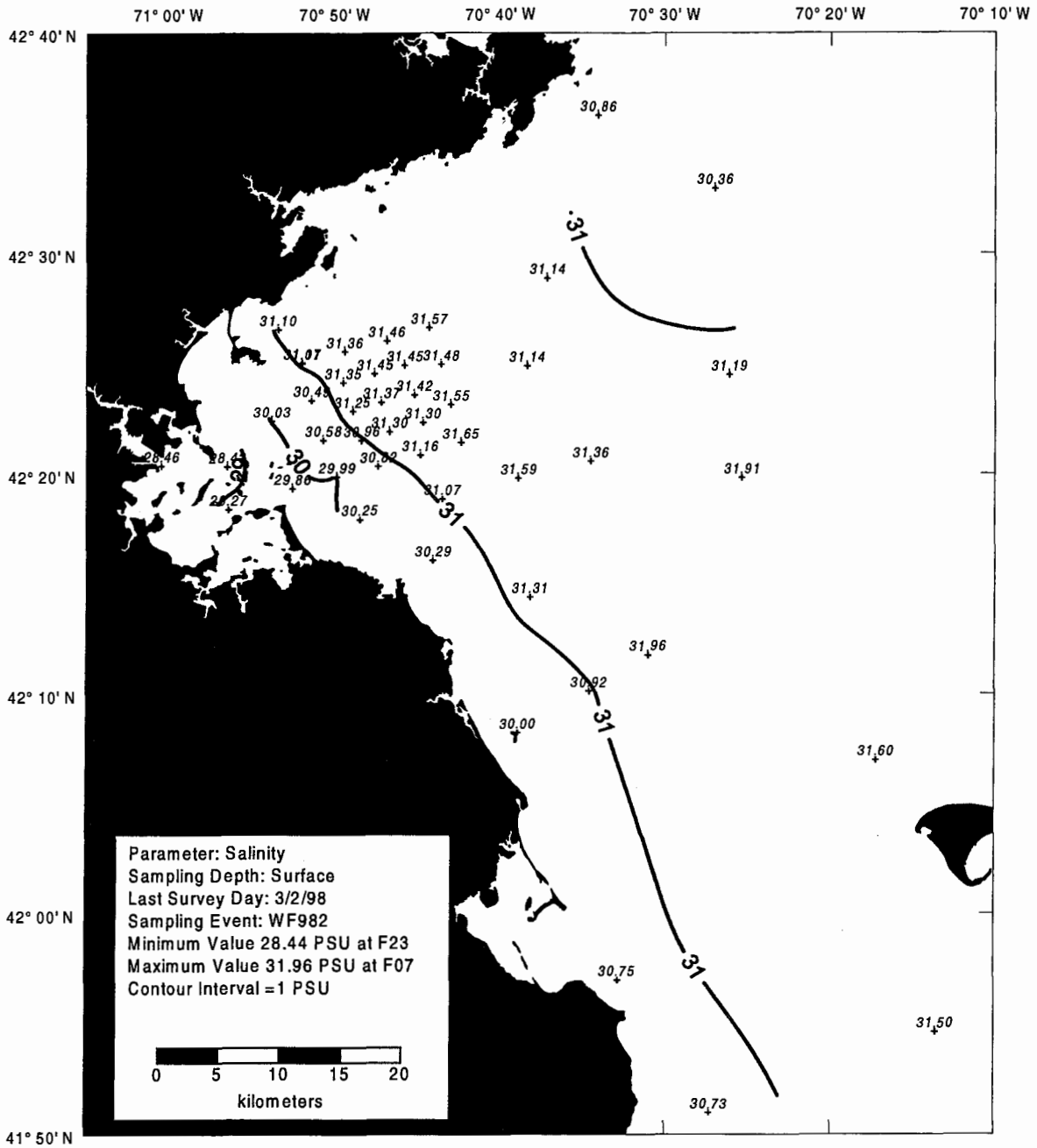


Figure B-6. Salinity Surface Contour Plot for Farfield Survey WF982 (Feb 98)

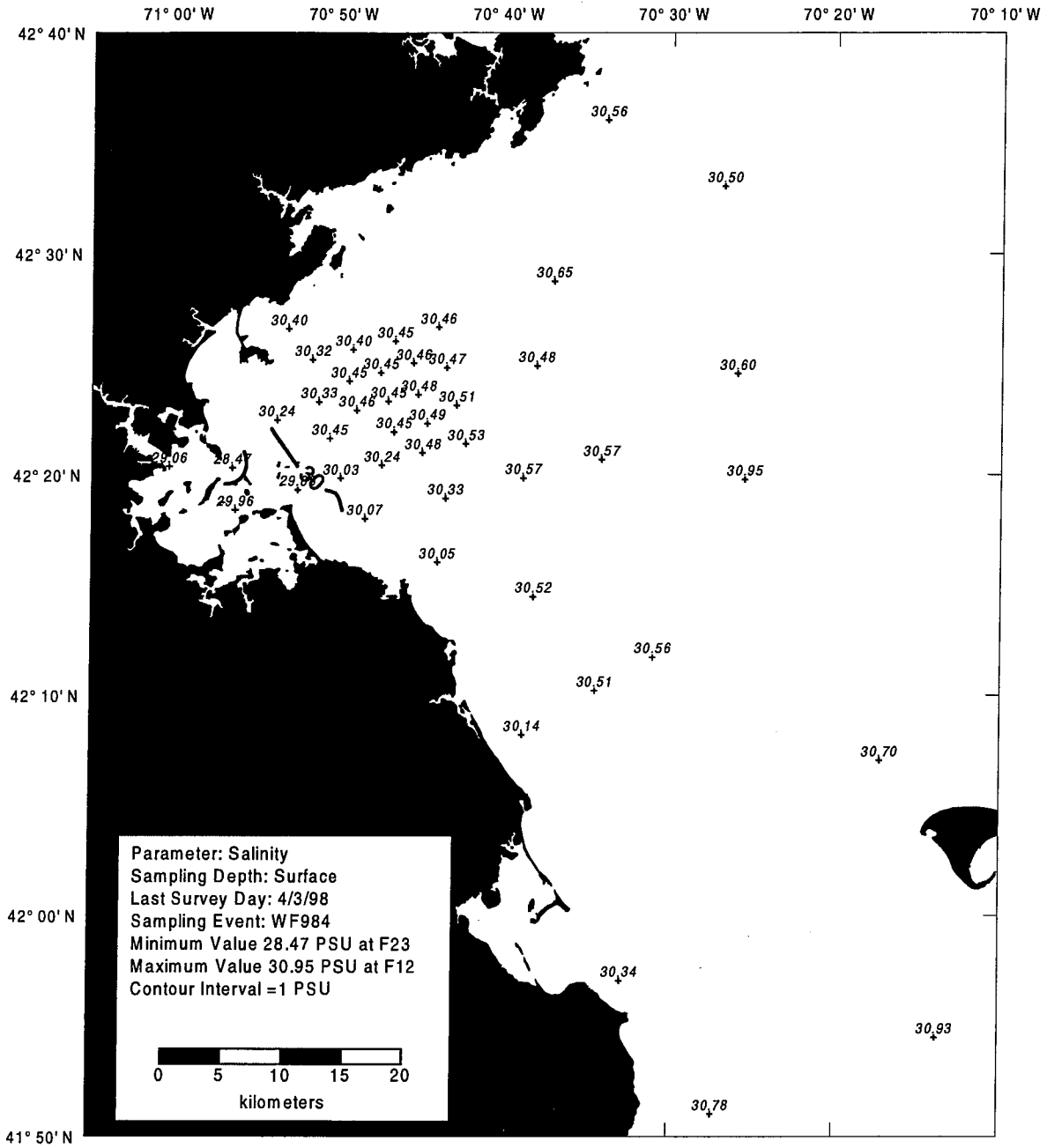


Figure B-7. Salinity Surface Contour Plot for Farfield Survey WF984 (Apr 98)

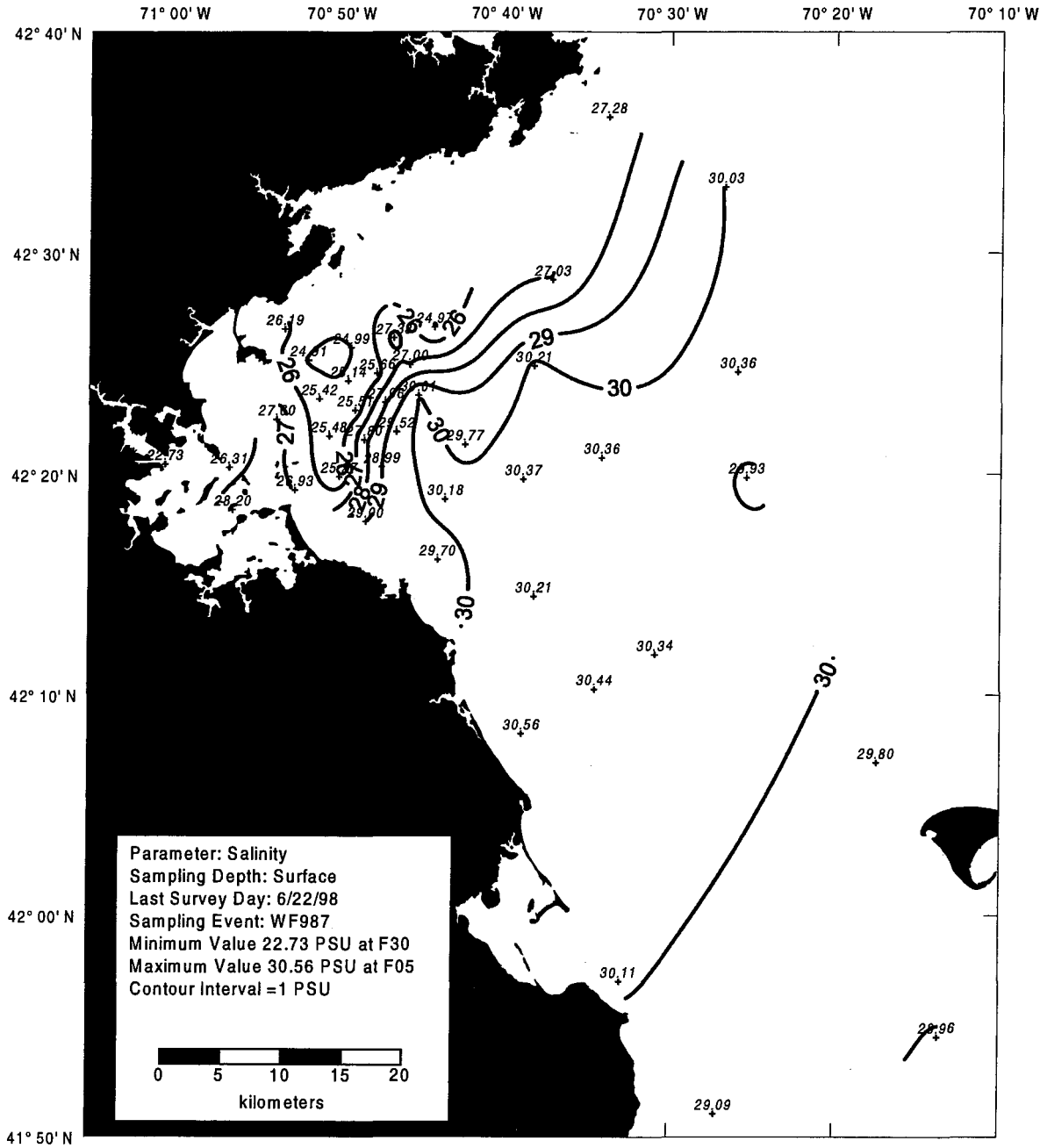


Figure B-8. Salinity Surface Contour Plot for Farfield Survey WF987 (Jun 98)

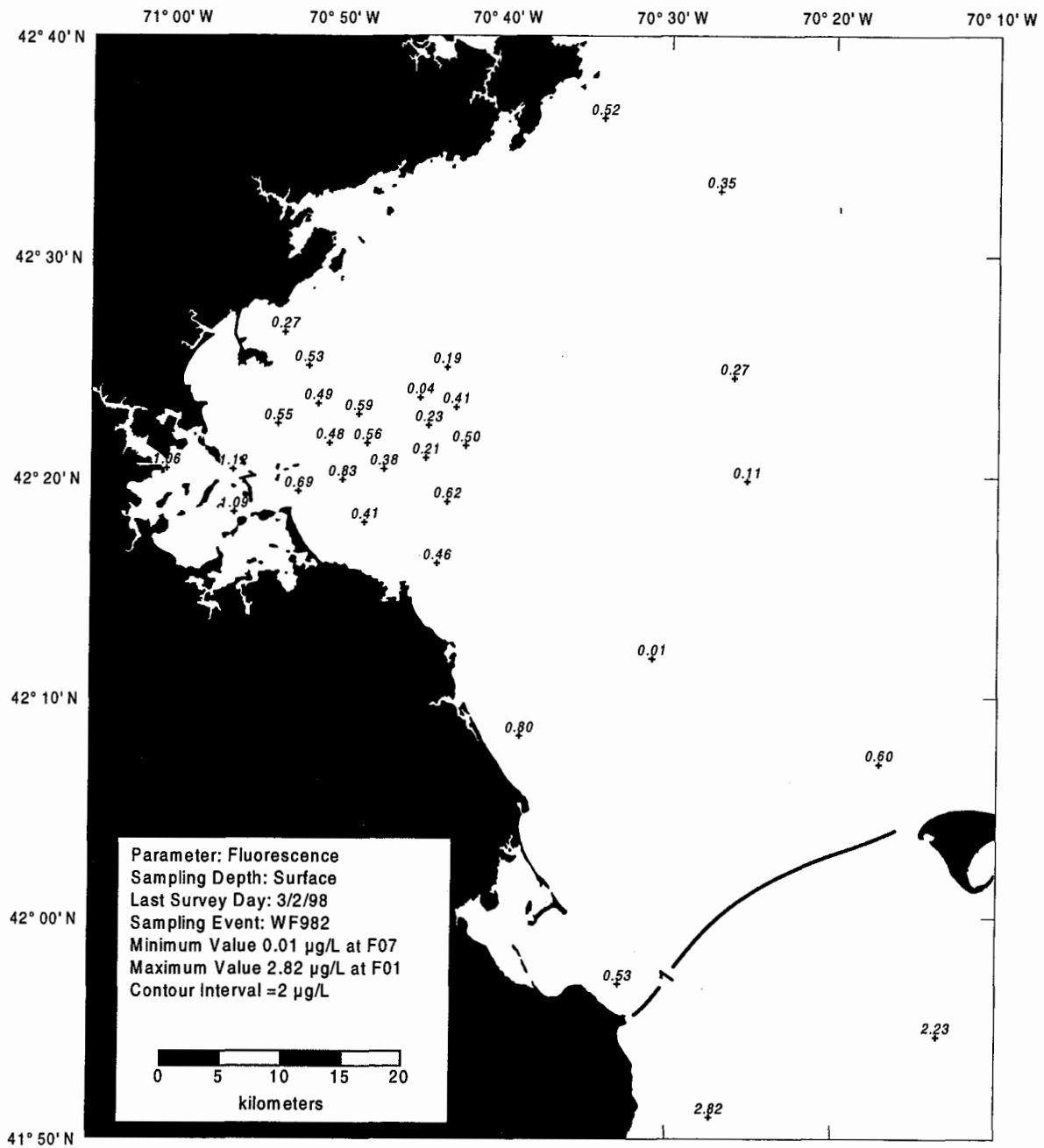


Figure B-9. Fluorescence Surface Contour Plot for Farfield Survey WF982 (Feb 98)

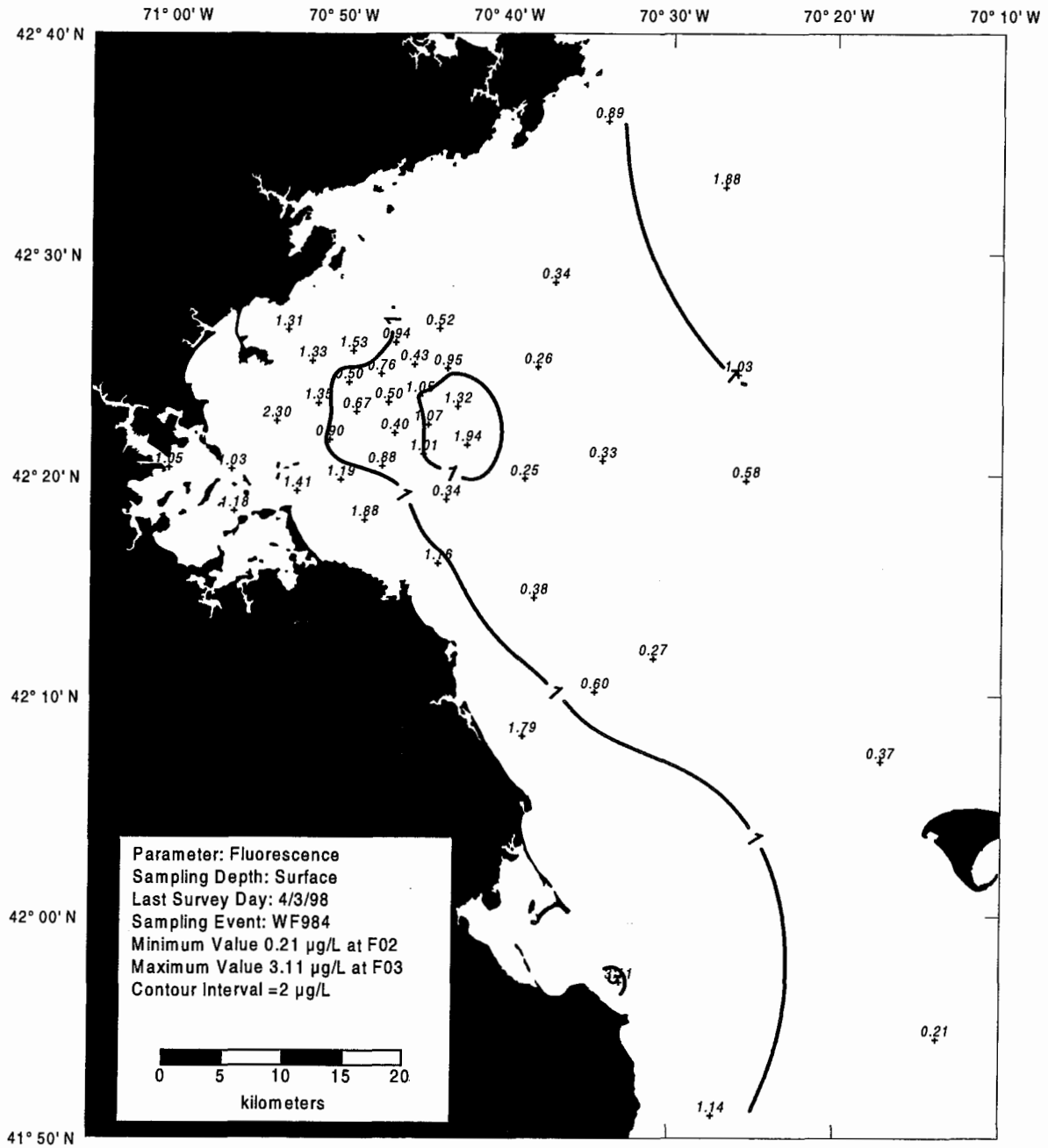


Figure B-10. Fluorescence Surface Contour Plot for Farfield Survey WF984 (Apr 98)

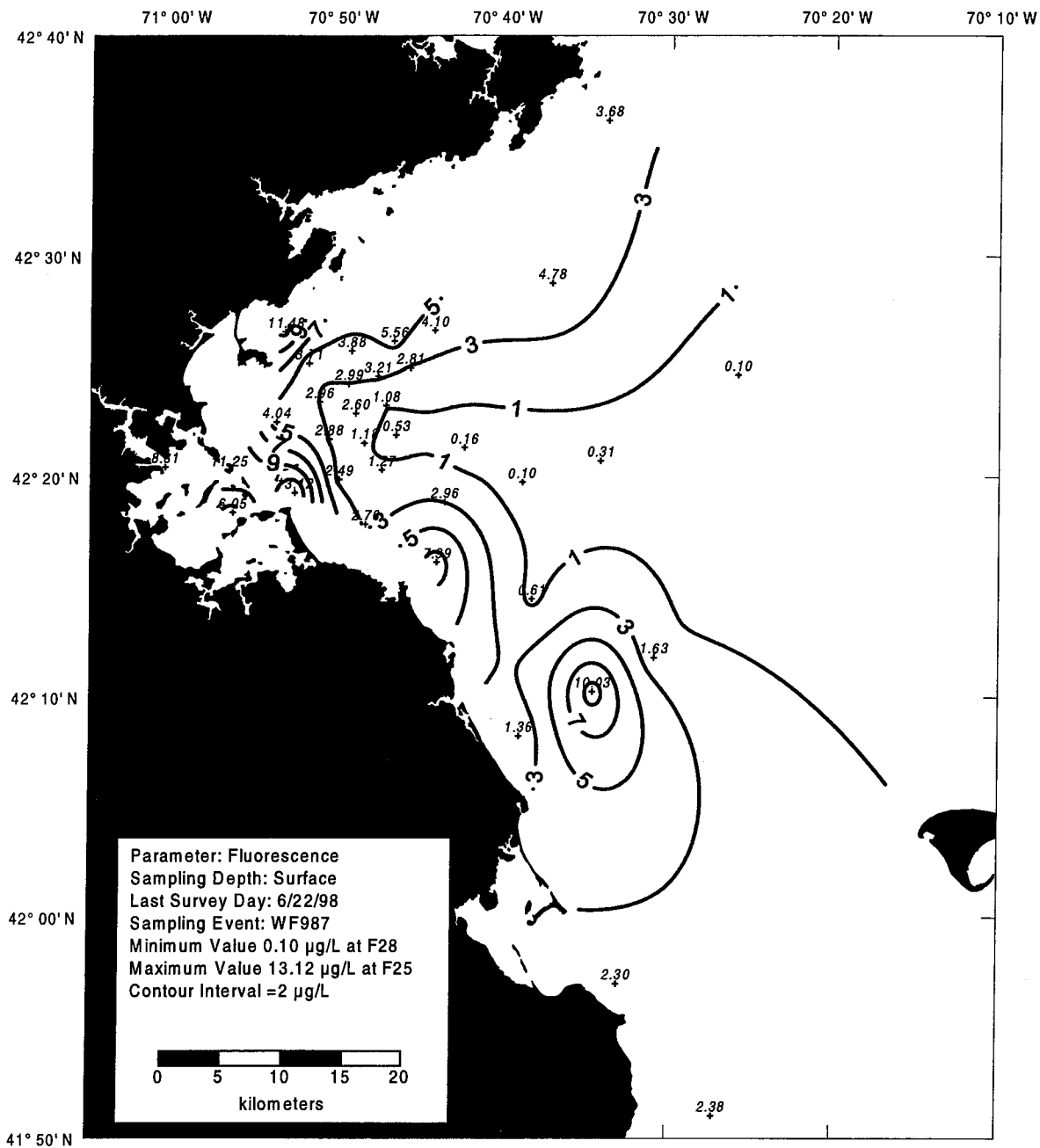


Figure B-11. Fluorescence Surface Contour Plot for Farfield Survey WF987 (Jun 98)

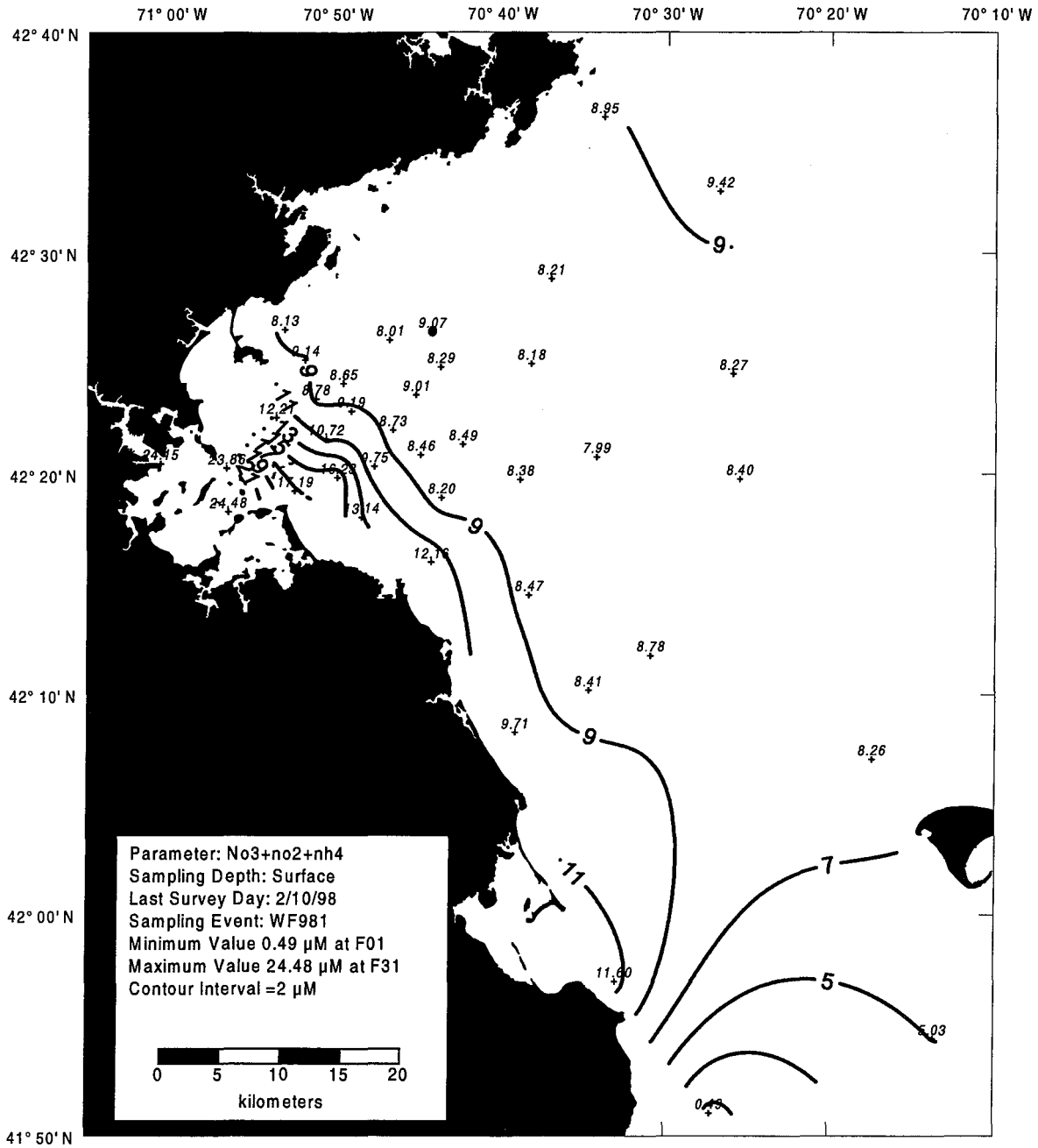


Figure B-12. DIN Surface Contour Plot for Farfield Survey WF981 (Feb 98)

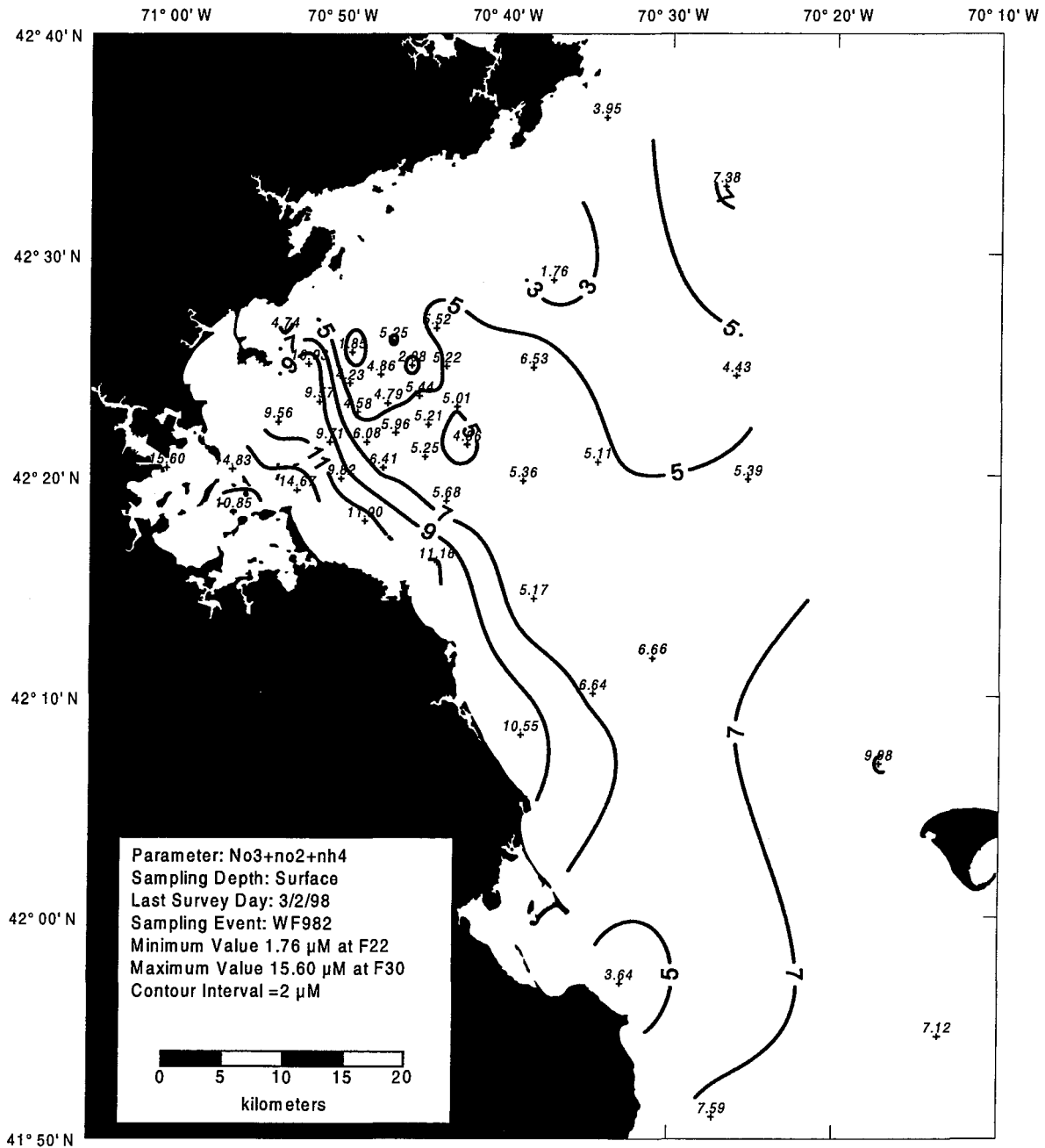


Figure B-13. DIN Surface Contour Plot for Farfield Survey WF982 (Feb 98)

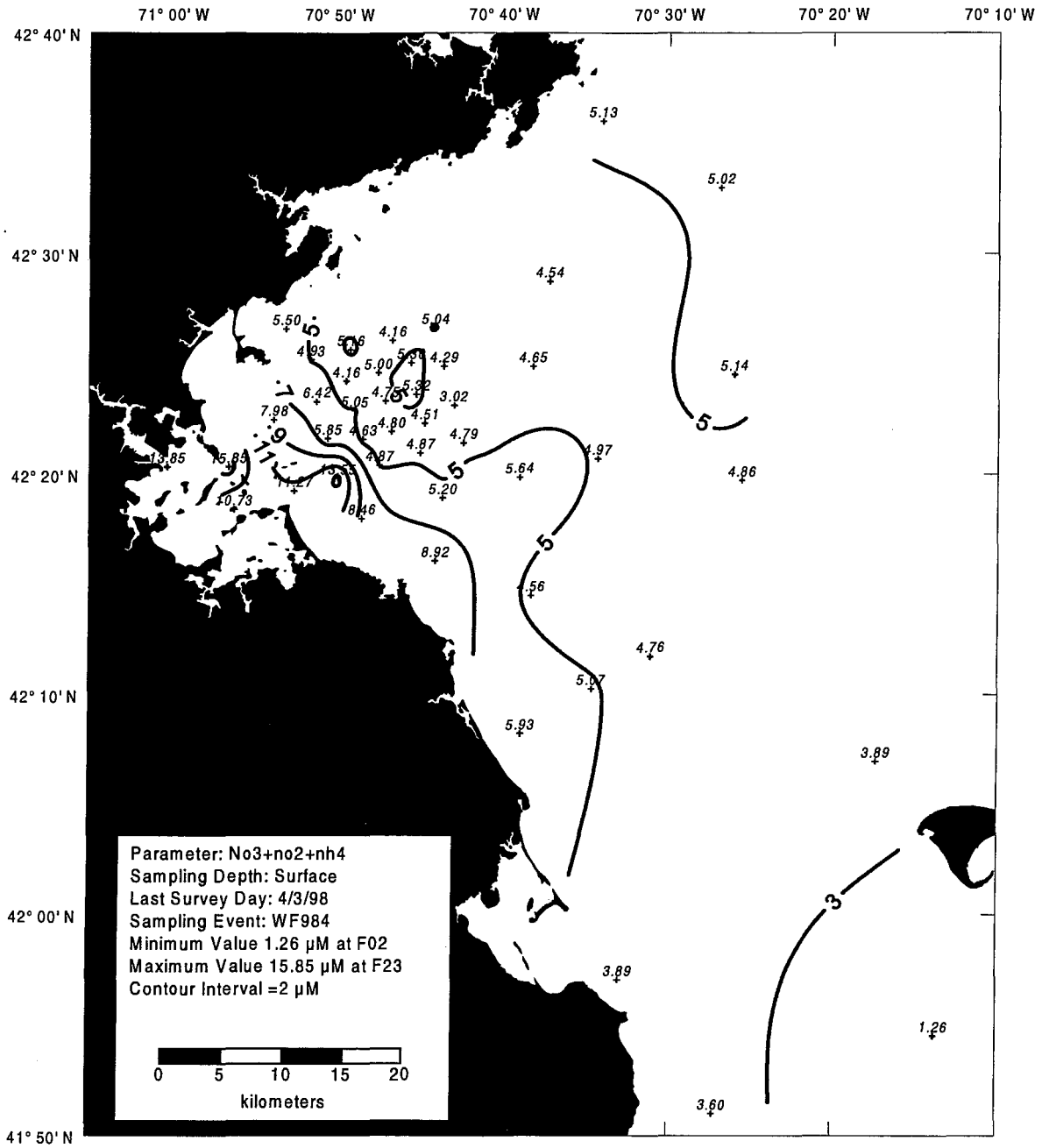


Figure B-14. DIN Surface Contour Plot for Farfield Survey WF984 (Apr 98)

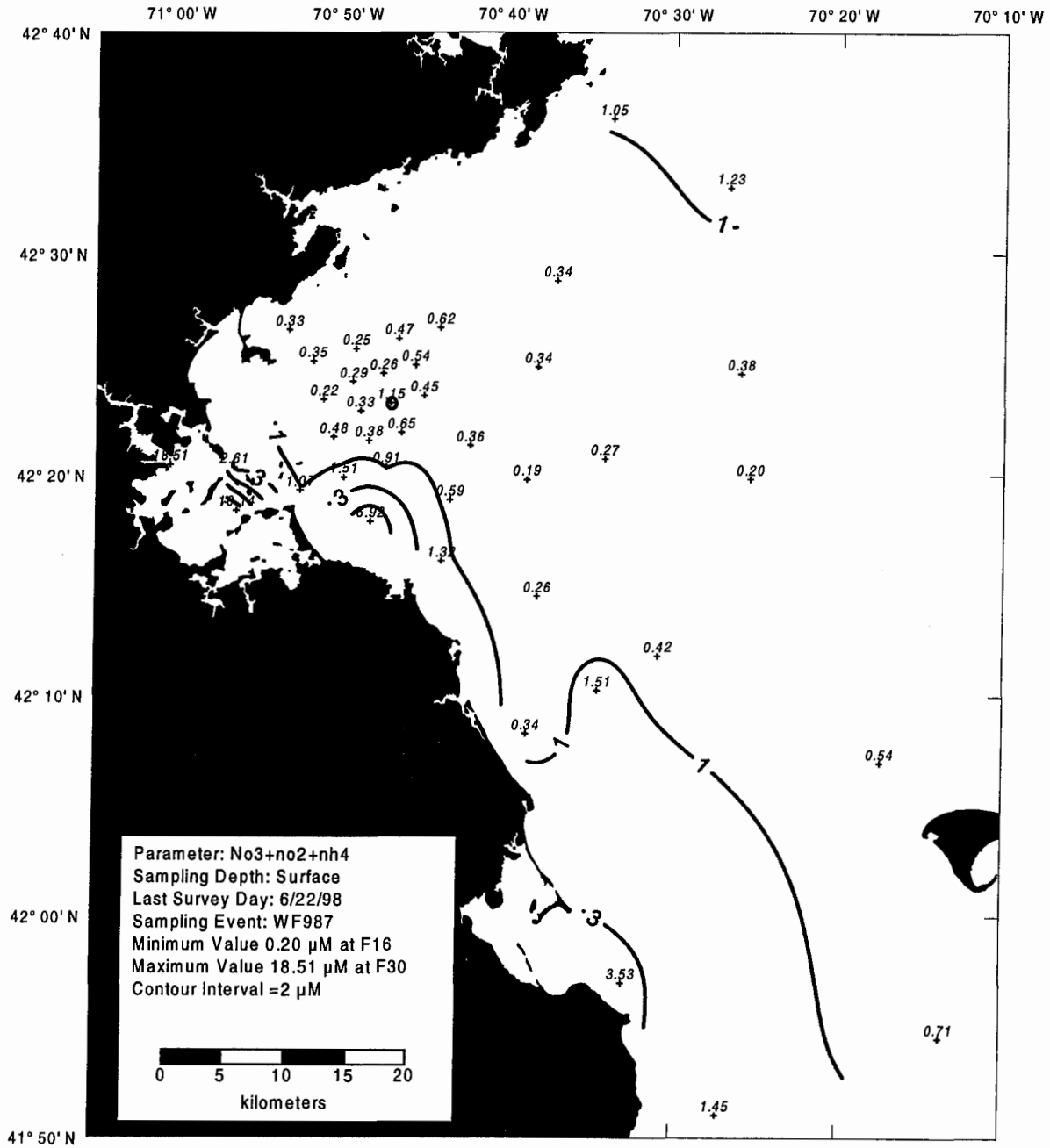


Figure B-15. DIN Surface Contour Plot for Farfield Survey WF987 (Jun 98)

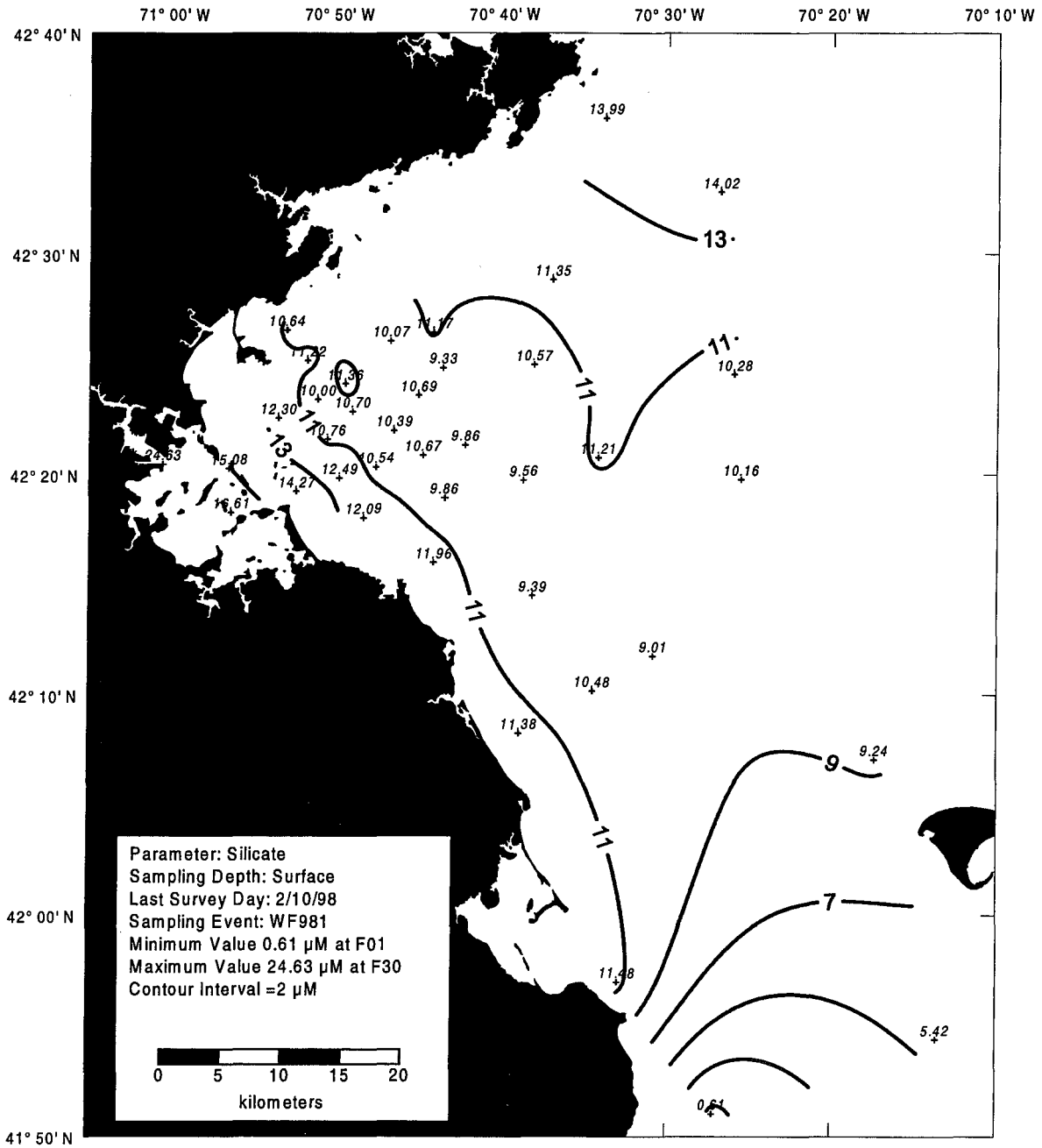


Figure B-16. Silicate Surface Contour Plot for Farfield Survey WF981 (Feb 98)

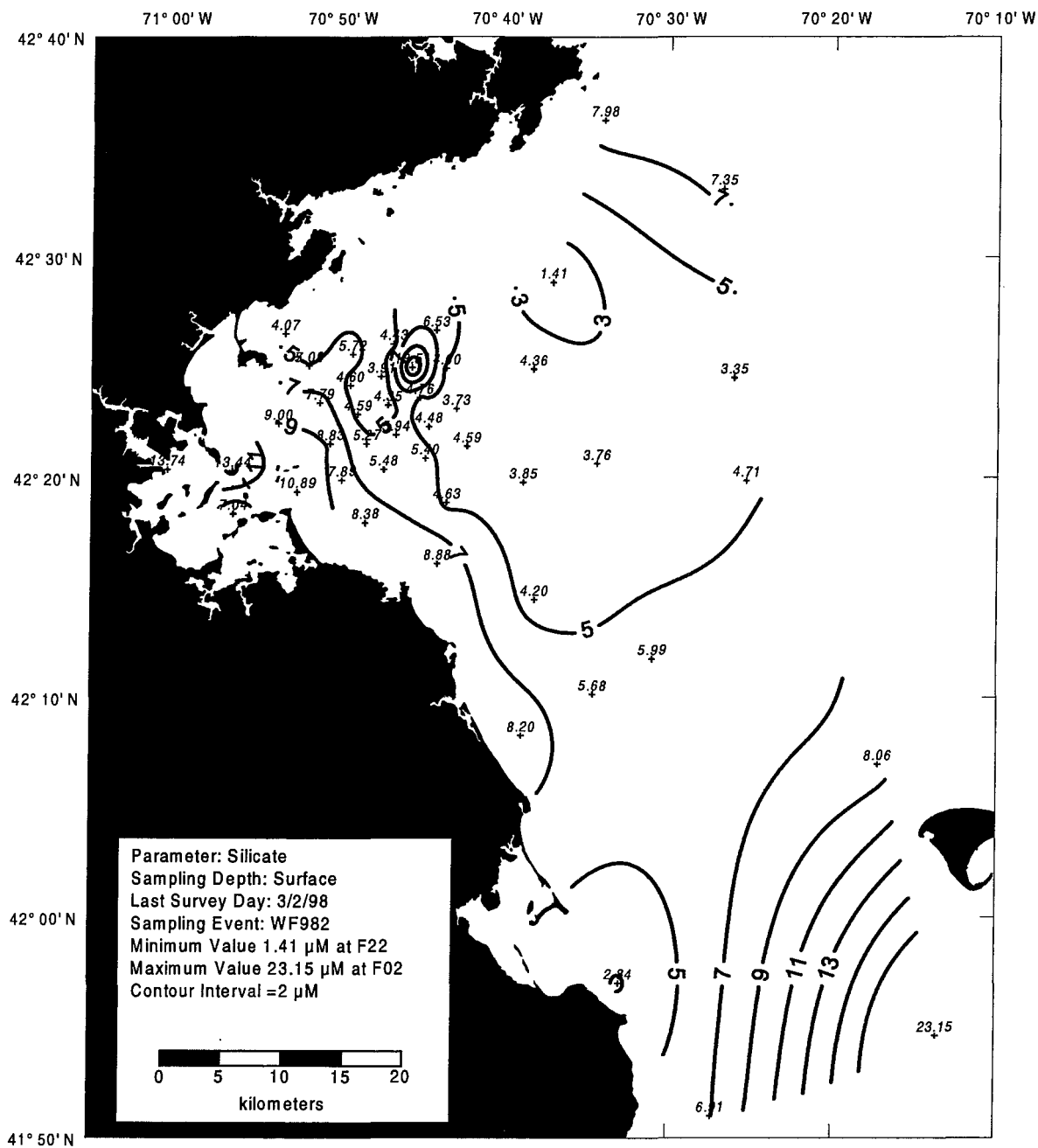


Figure B-17. Silicate Surface Contour Plot for Farfield Survey WF982 (Feb 98)

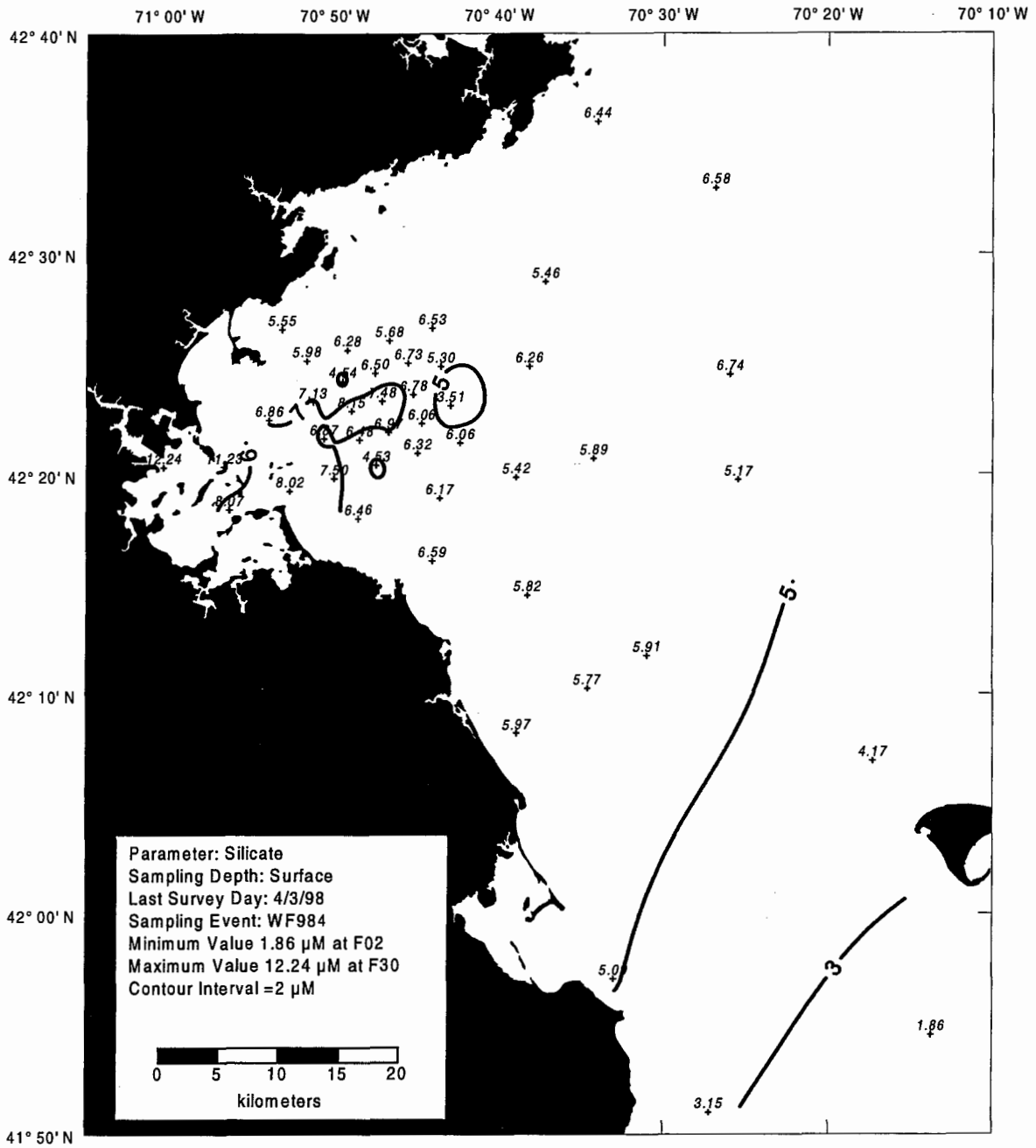


Figure B-18. Silicate Surface Contour Plot for Farfield Survey WF984 (Apr 98)

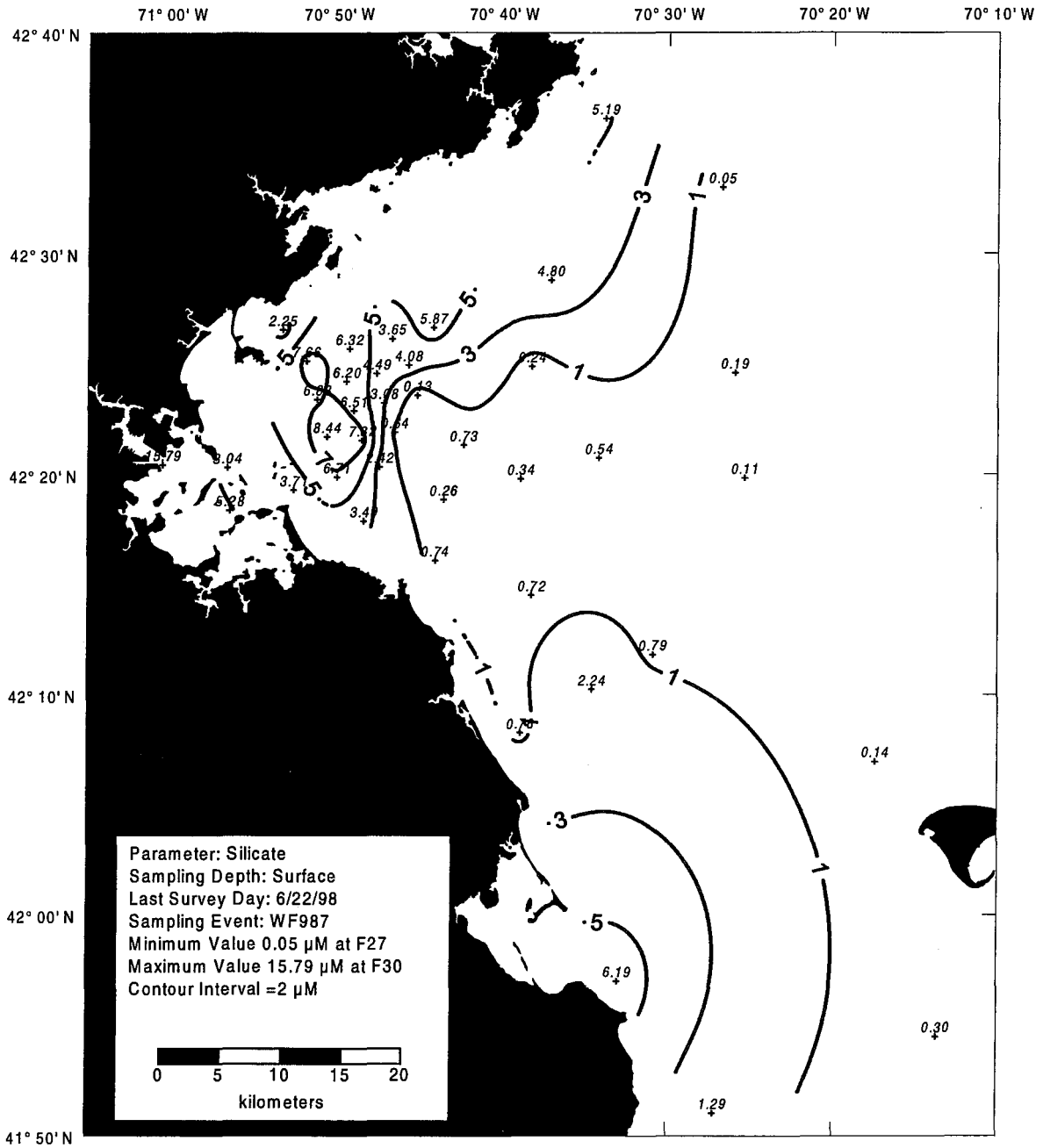


Figure B-19. Silicate Surface Contour Plot for Farfield Survey WF987 (Jun 98)

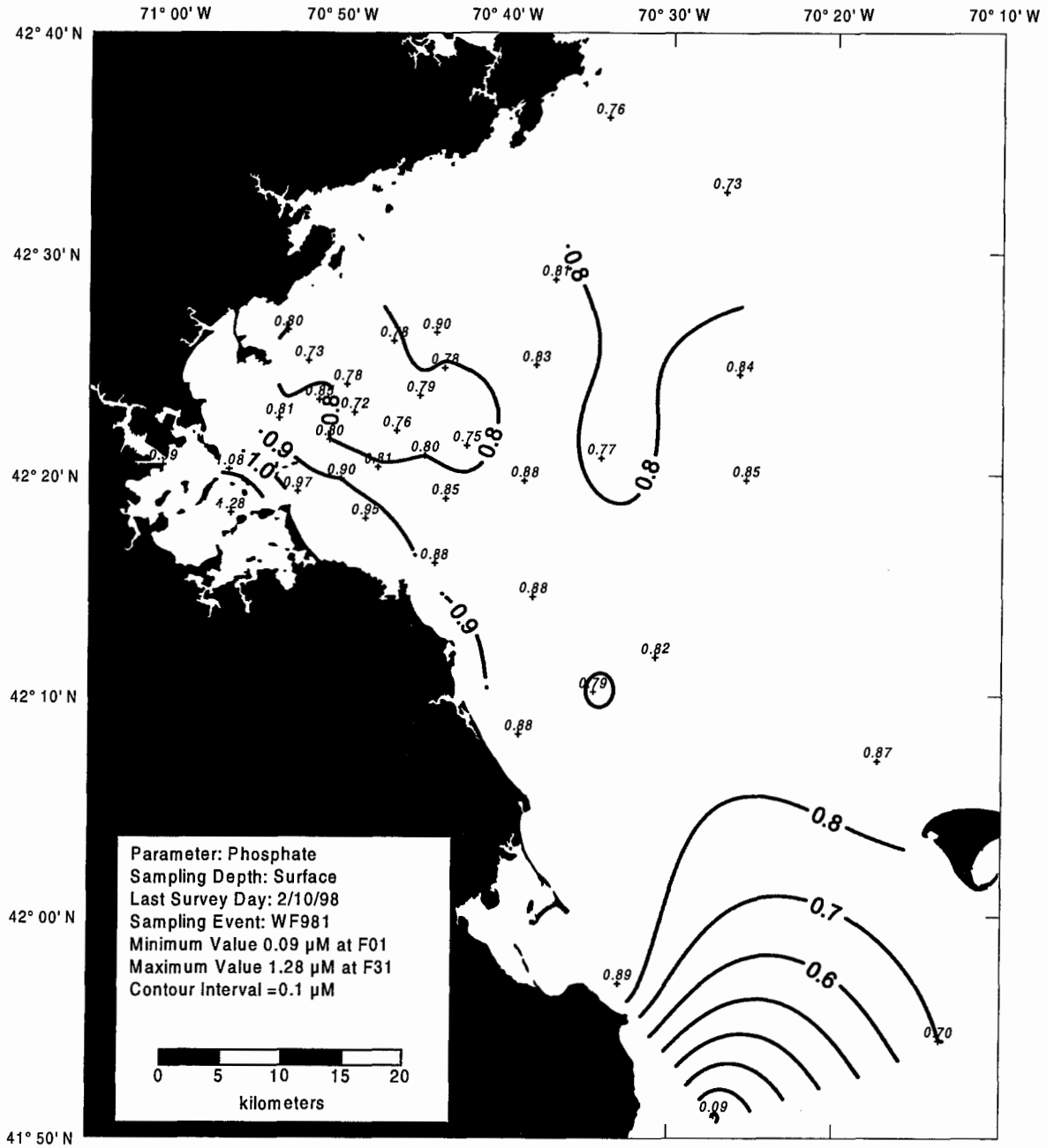


Figure B-20. Phosphate Surface Contour Plot for Farfield Survey WF981 (Feb 98)

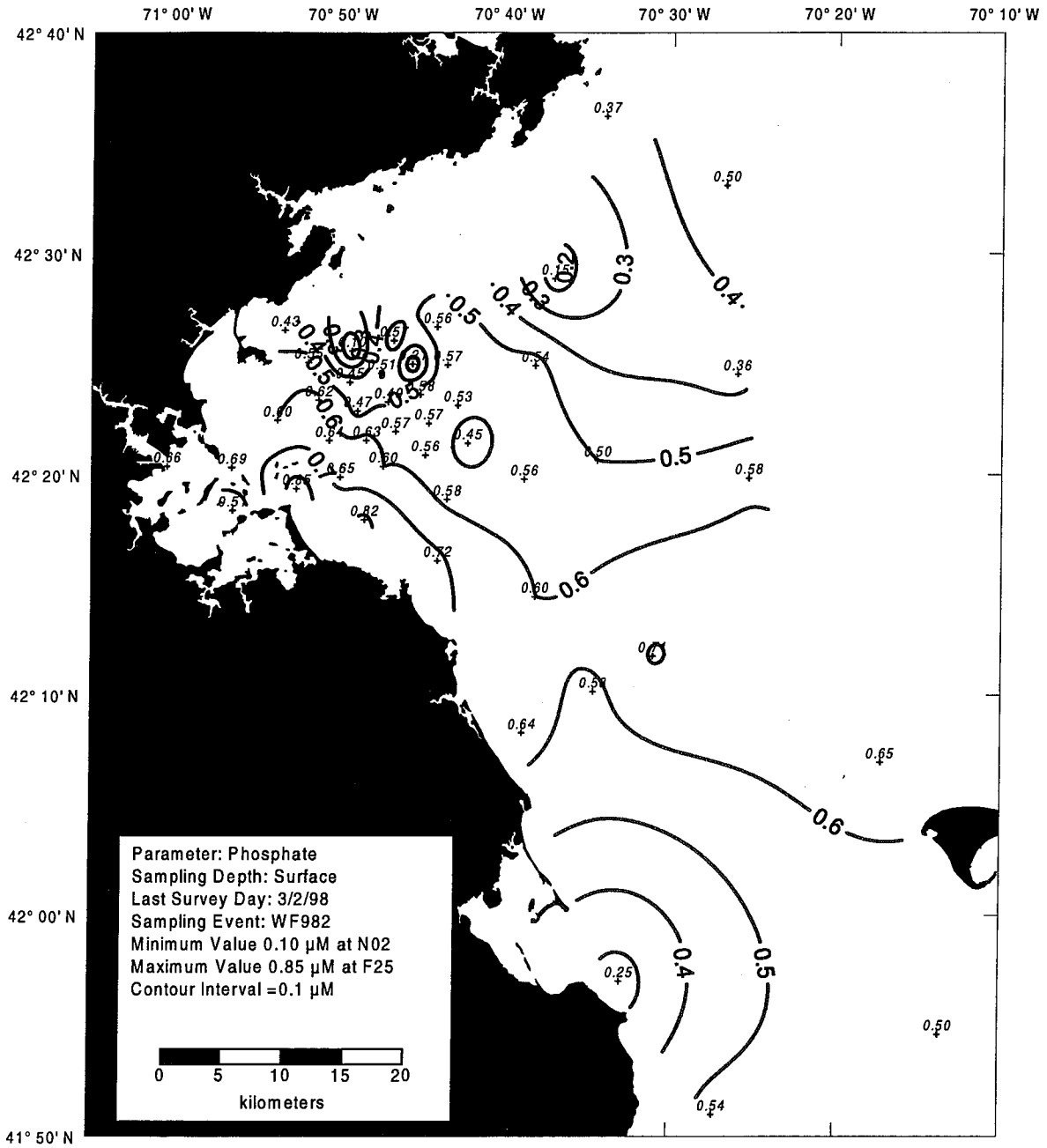


Figure B-21. Phosphate Surface Contour Plot for Farfield Survey WF982 (Feb 98)

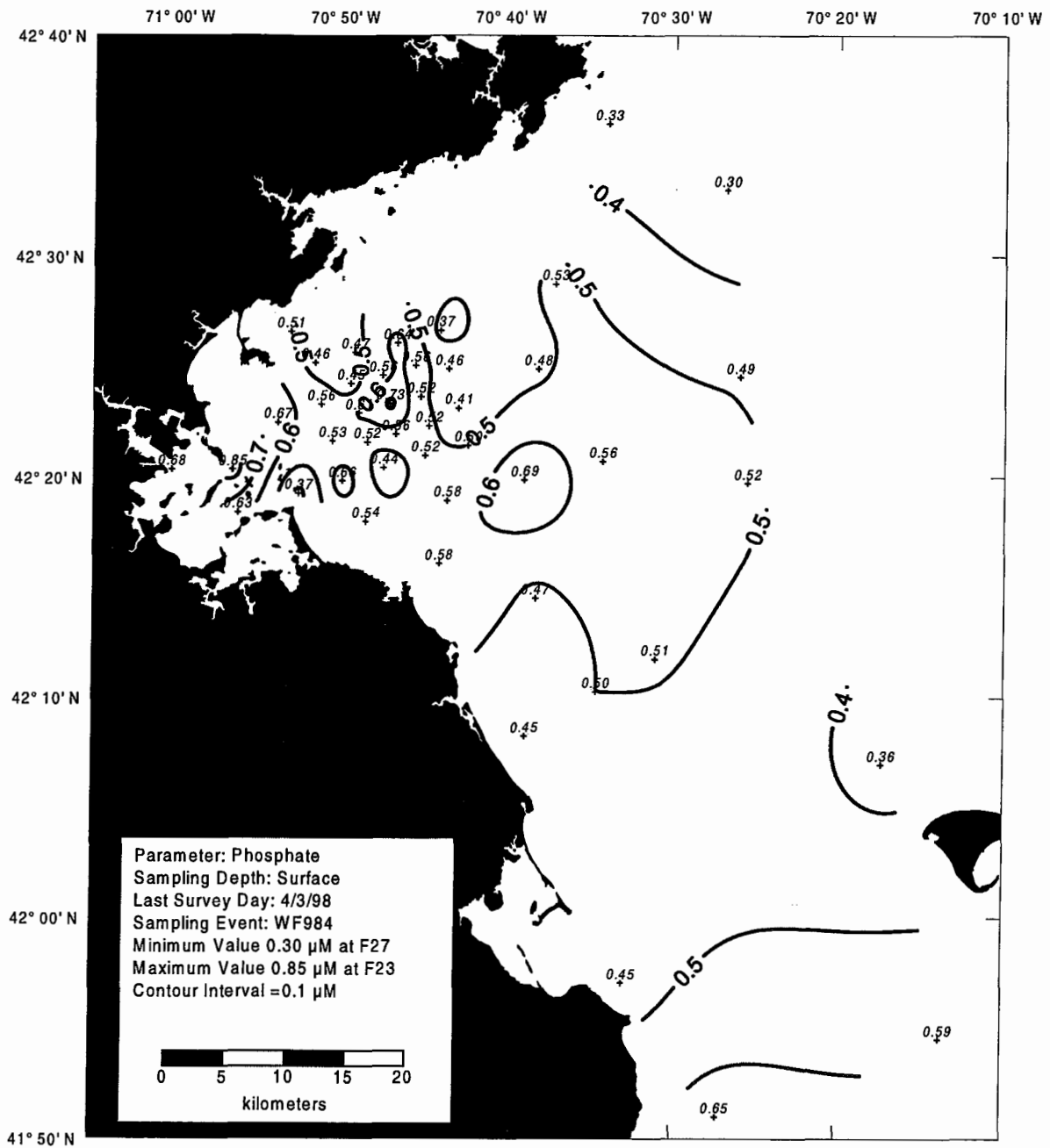


Figure B-22. Phosphate Surface Contour Plot for Farfield Survey WF984 (Apr 98)

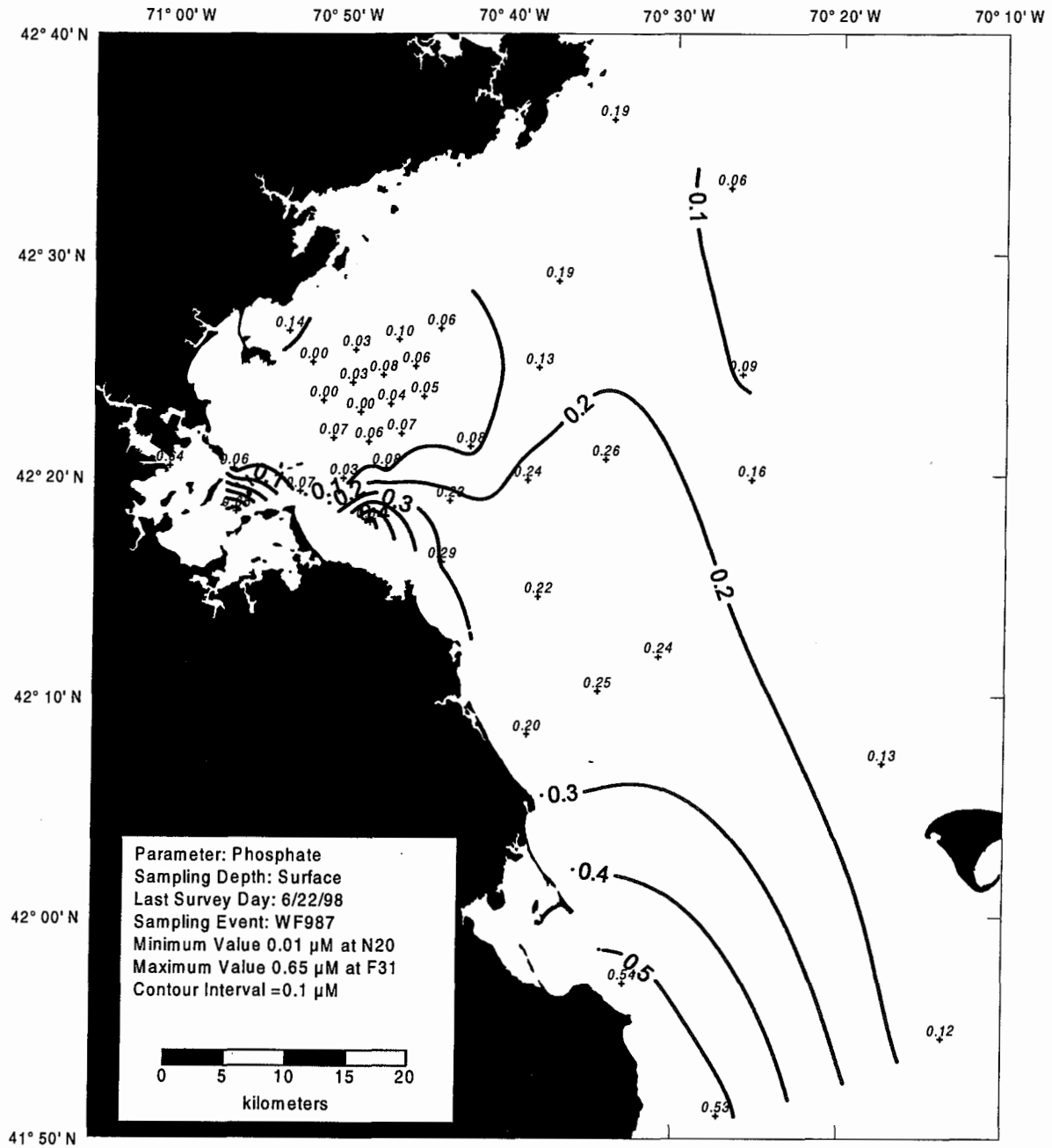


Figure B-23. Phosphate Surface Contour Plot for Farfield Survey WF987 (Jun 98)

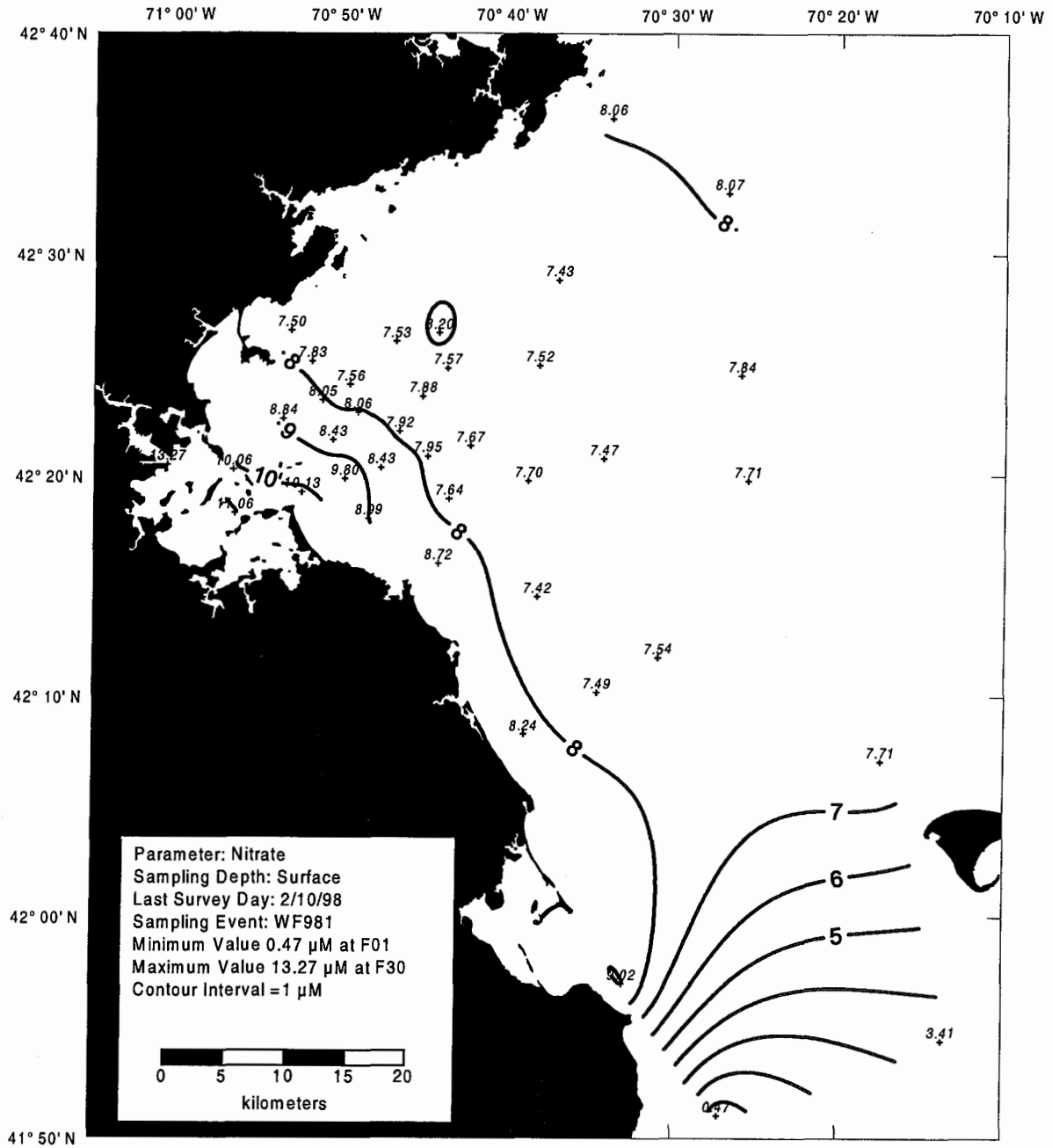


Figure B-24. Nitrate Surface Contour Plot for Farfield Survey WF981 (Feb 98)

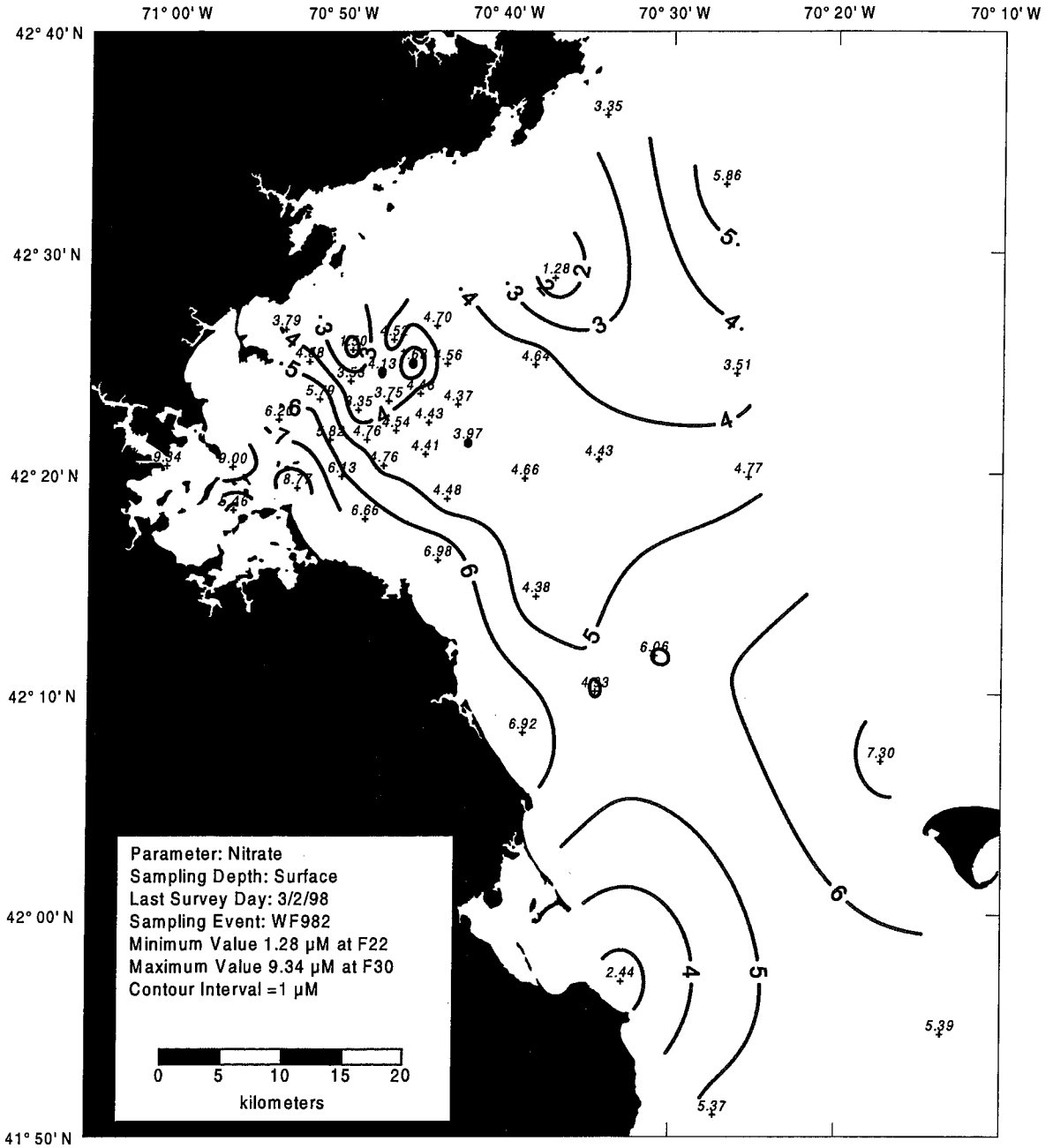


Figure B-25. Nitrate Surface Contour Plot for Farfield Survey WF982 (Feb 98)

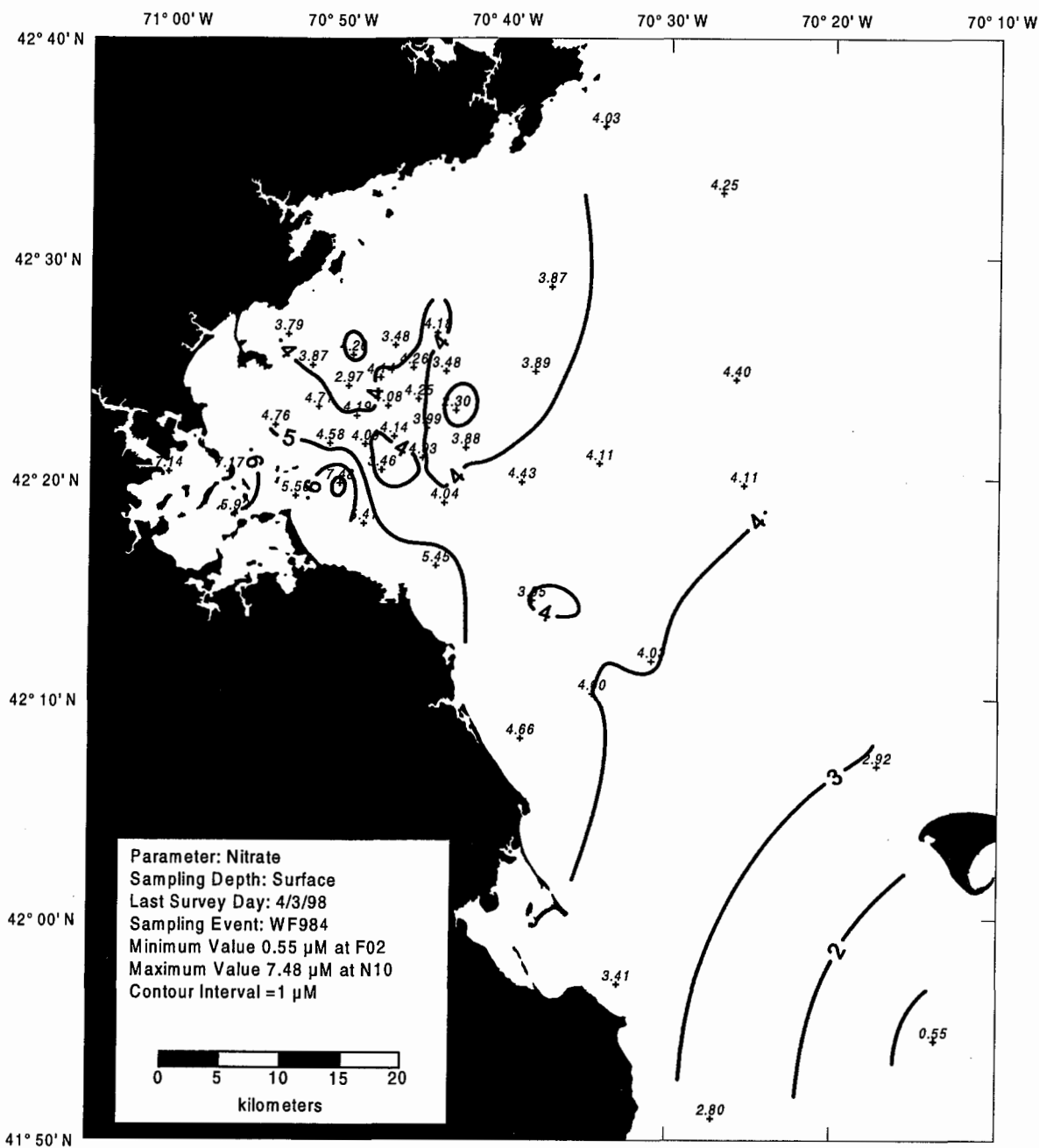


Figure B-26. Nitrate Surface Contour Plot for Farfield Survey WF984 (Apr 98)

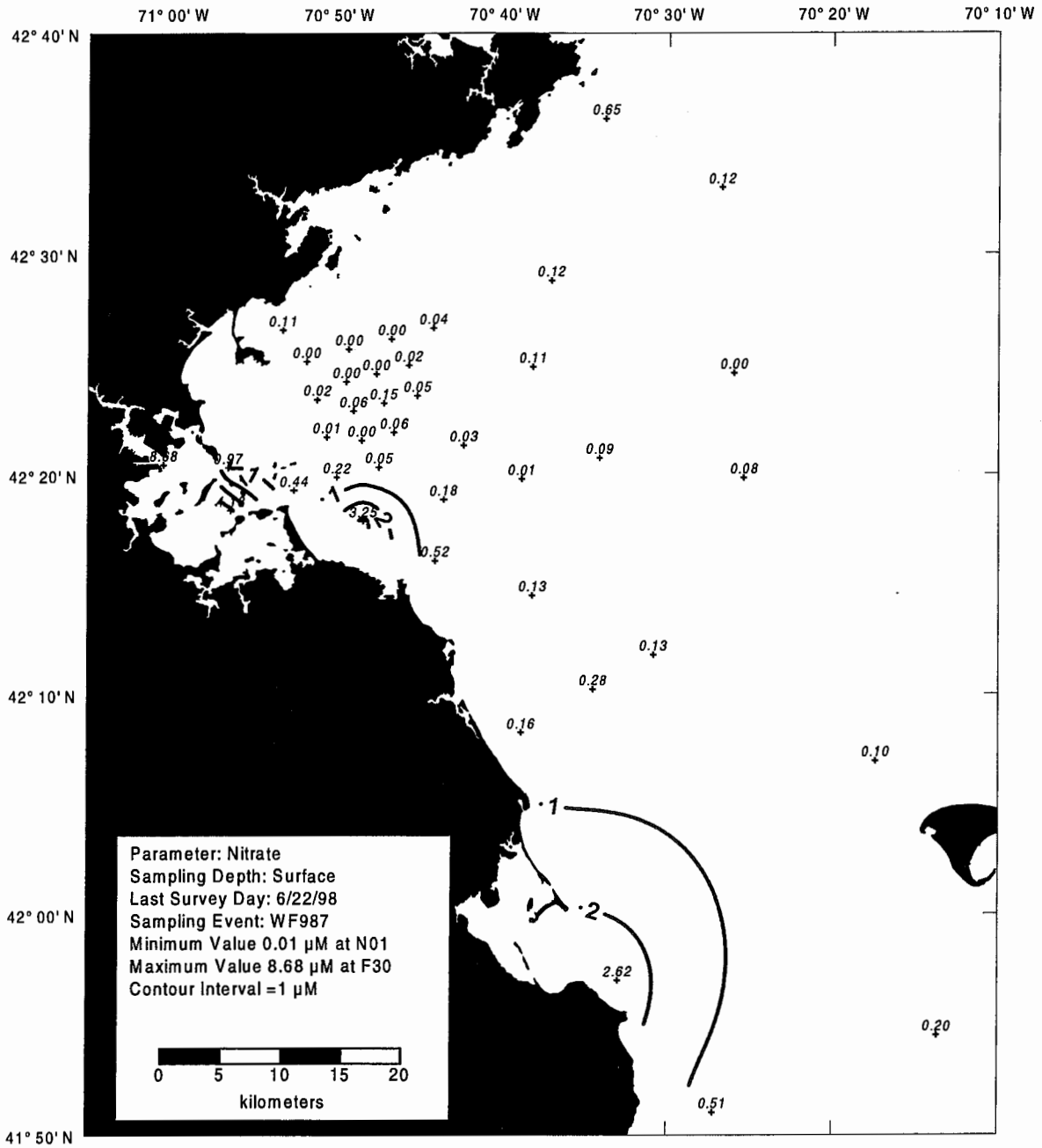


Figure B-27. Nitrate Surface Contour Plot for Farfield Survey WF987 (Jun 98)

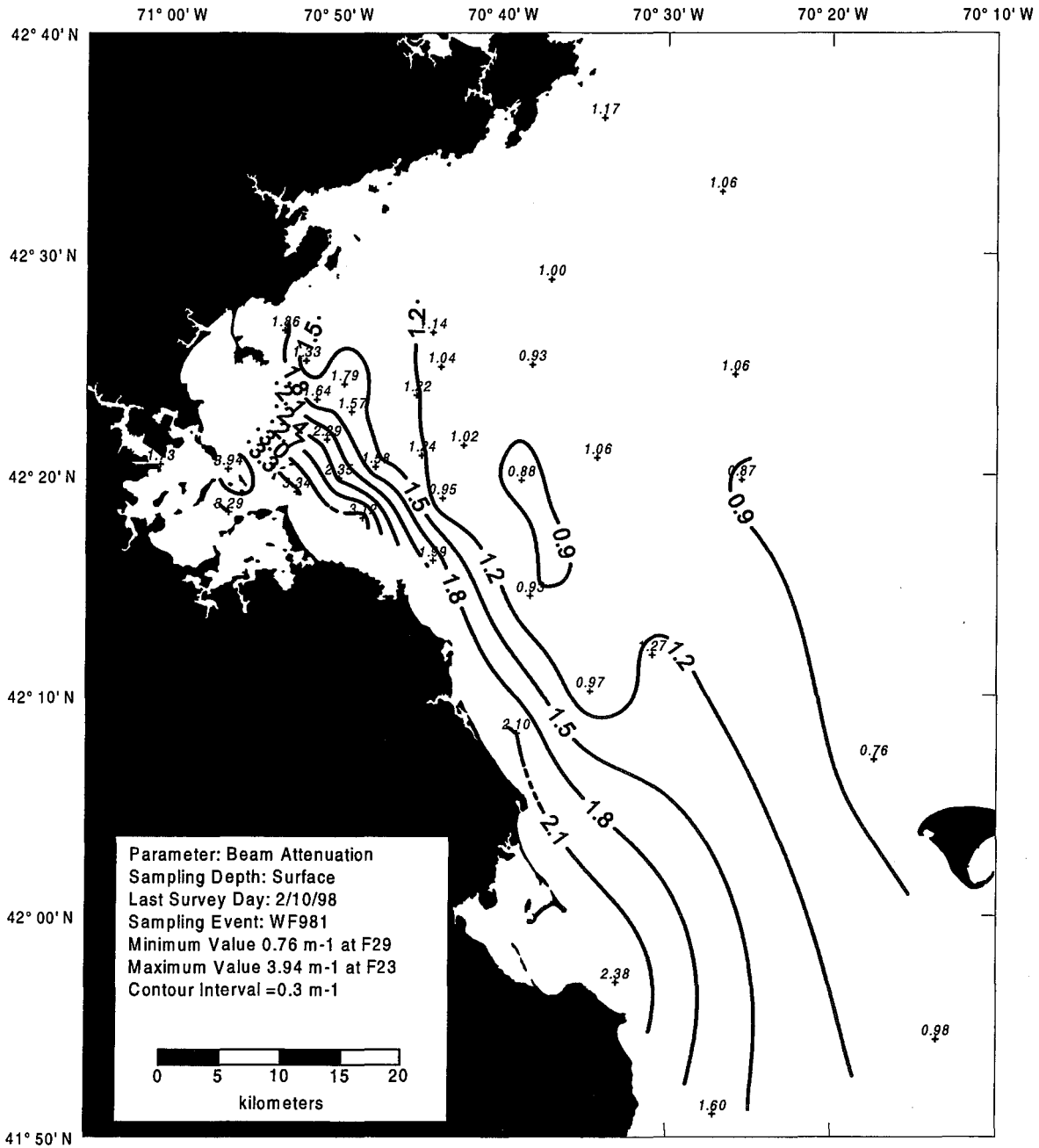


Figure B-28. Transmissivity Surface Contour Plot for Farfield Survey WF981 (Feb 98)

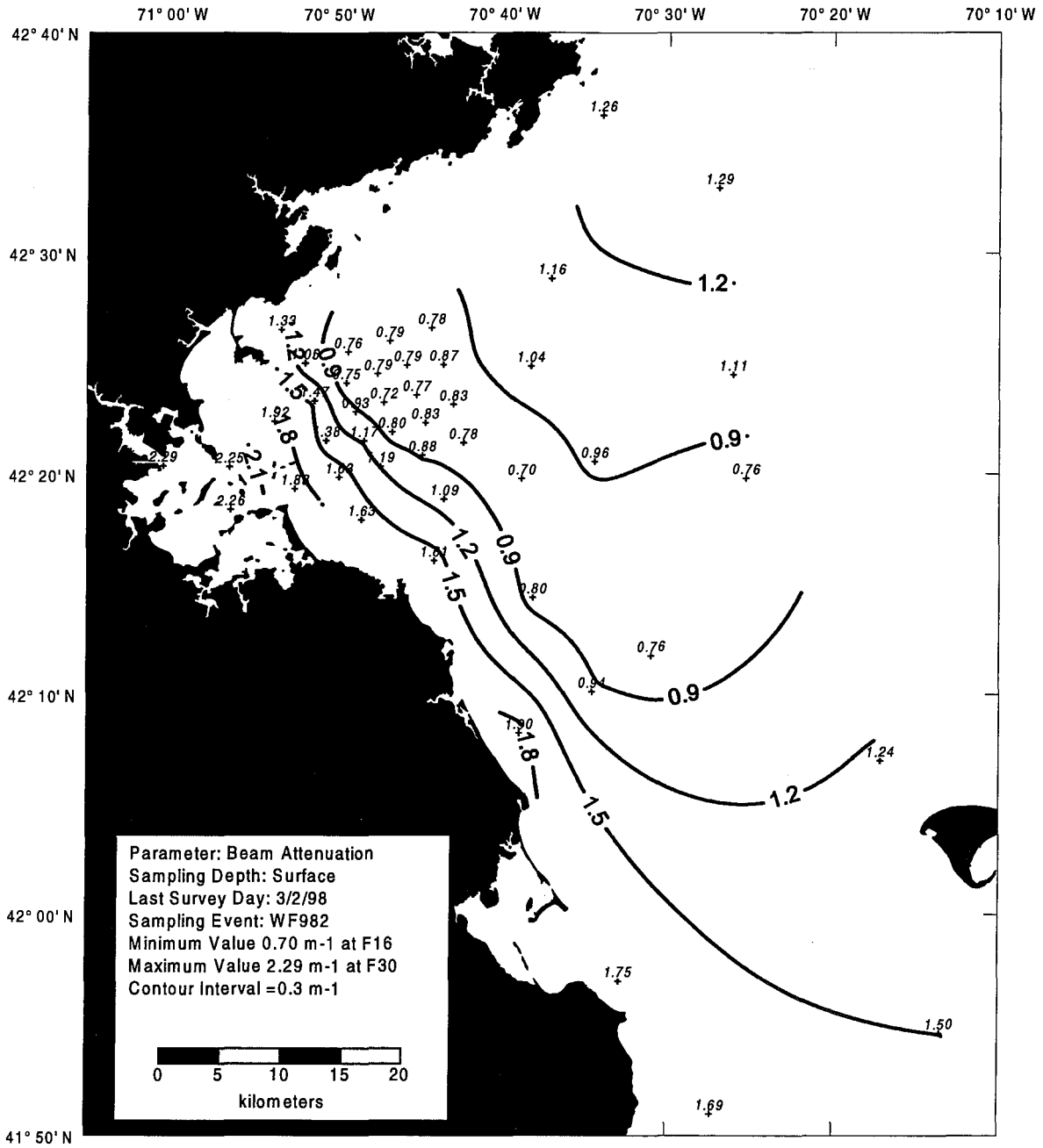


Figure B-29. Transmissivity Surface Contour Plot for Farfield Survey WF982 (Feb 98)

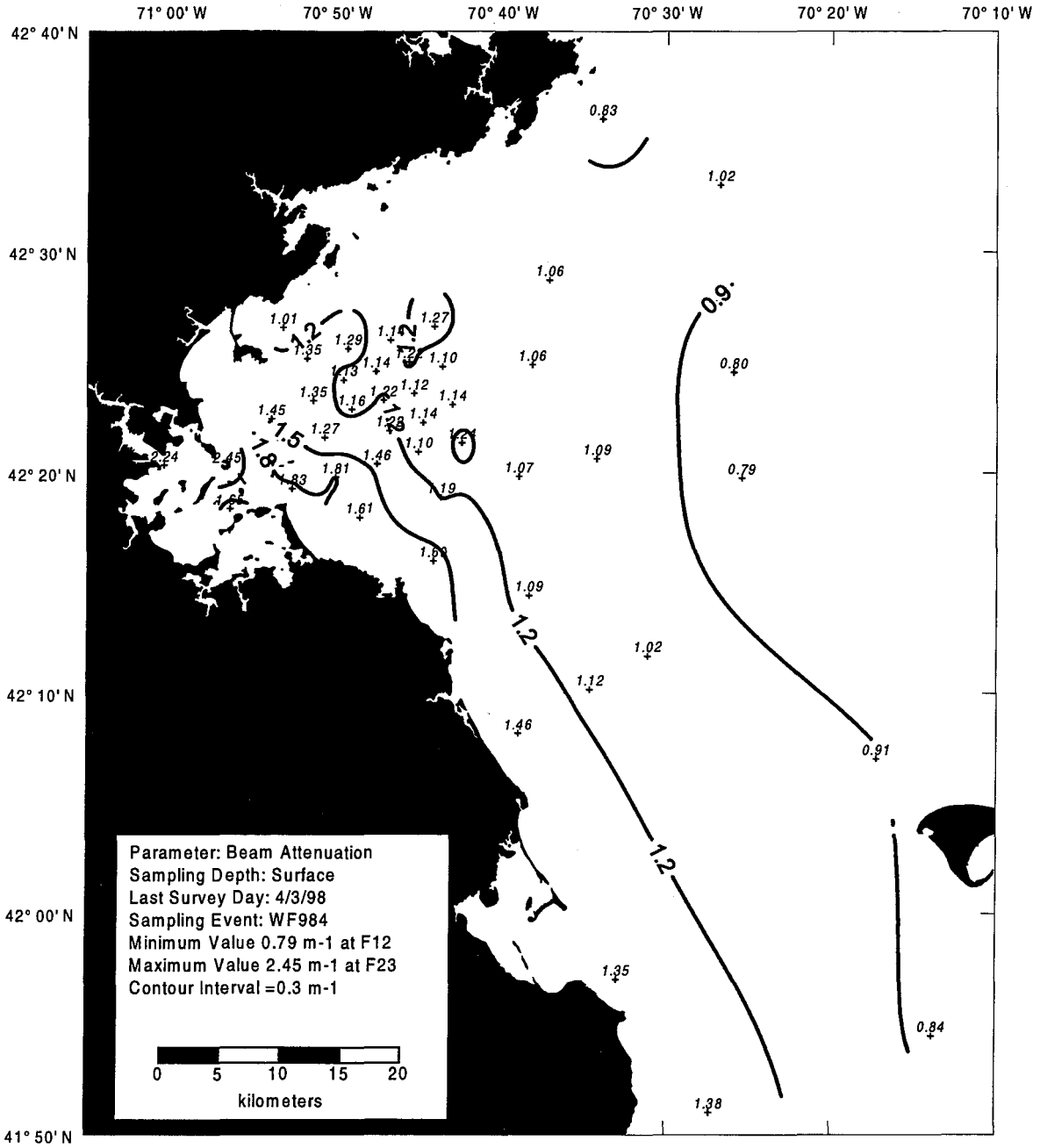


Figure B-30. Transmissivity Surface Contour Plot for Farfield Survey WF984 (Apr 98)

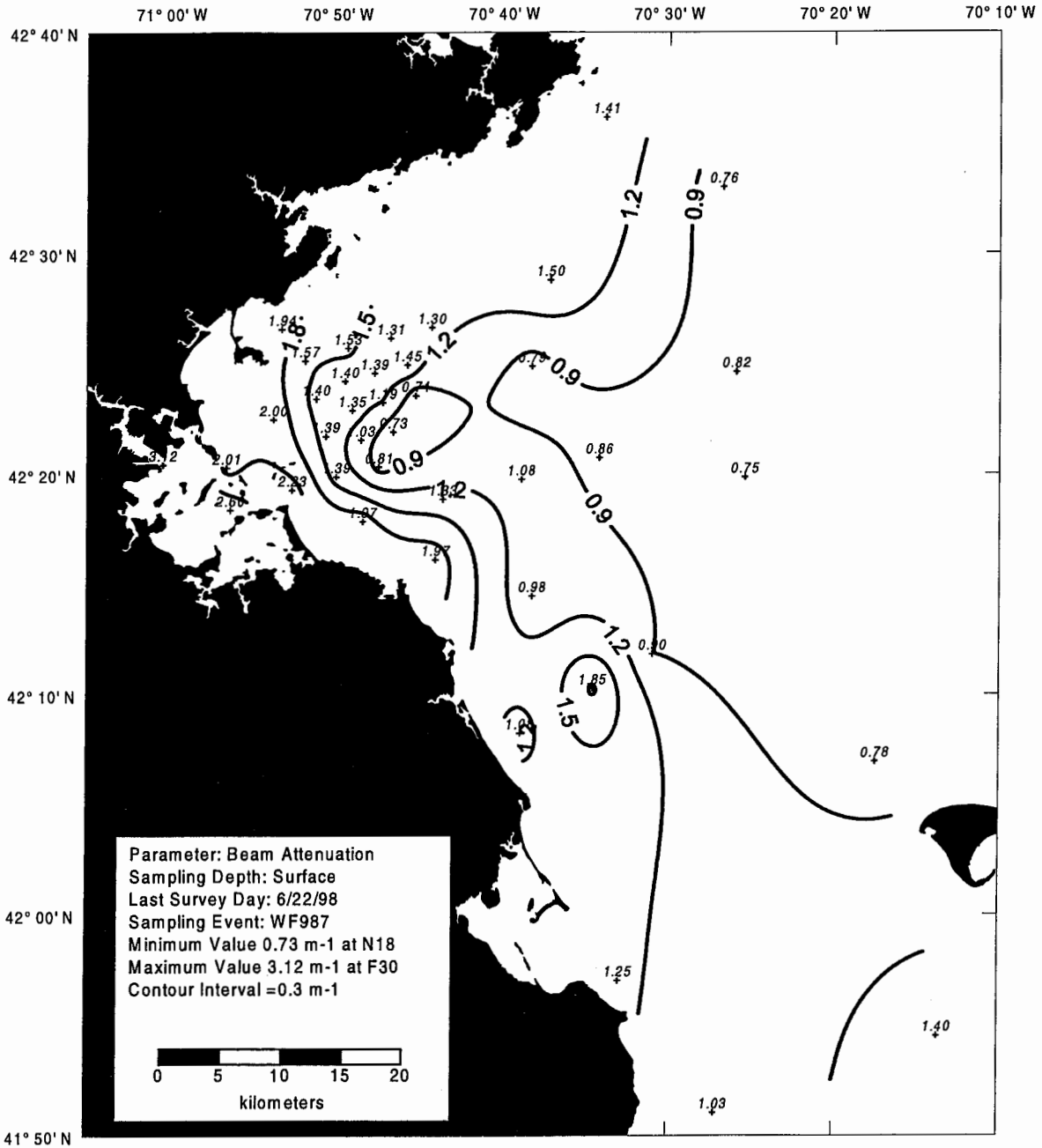


Figure B-31. Transmissivity Surface Contour Plot for Farfield Survey WF987 (Jun 98)

APPENDIX C

Transect Plots

Transect Plots – Farfield Surveys

Data were contoured relative to water depth and distance between stations as shown on the transects (Figure 1-3). Distances between stations and water depth at each station is shown on the transect. Water depth is labeled with negative values in meters, with zero depth at the sea surface. The depth to the seabed is shown by the solid shading at the bottom of each plot. Three transects (Boston-Nearfield, Cohasset, and Marshfield) are provided on each plot, as well as shaded contour levels on the scale bar at the bottom of the plot. Contour units are as noted on the plot. Each plot is labeled on the bottom left with the parameter, survey number, and last day of the survey date. The data used for the contours were based on high-resolution *in situ* hydrographic casts and individual data points as noted below.

Parameter	Data Used
Density (Sigma-T)	High-resolution <i>in situ</i> data
Temperature	High-resolution <i>in situ</i> data
Salinity	High-resolution <i>in situ</i> data
Transmissivity	High-resolution <i>in situ</i> data
Nitrate plus Nitrite	Individual data points based on discrete water column
Phosphate	Individual data points based on discrete water column
Silicate	Individual data points based on discrete water column
Ammonium	Individual data points based on discrete water column
Fluorescence	High-resolution <i>in situ</i> data
Dissolved Oxygen	High-resolution <i>in situ</i> data

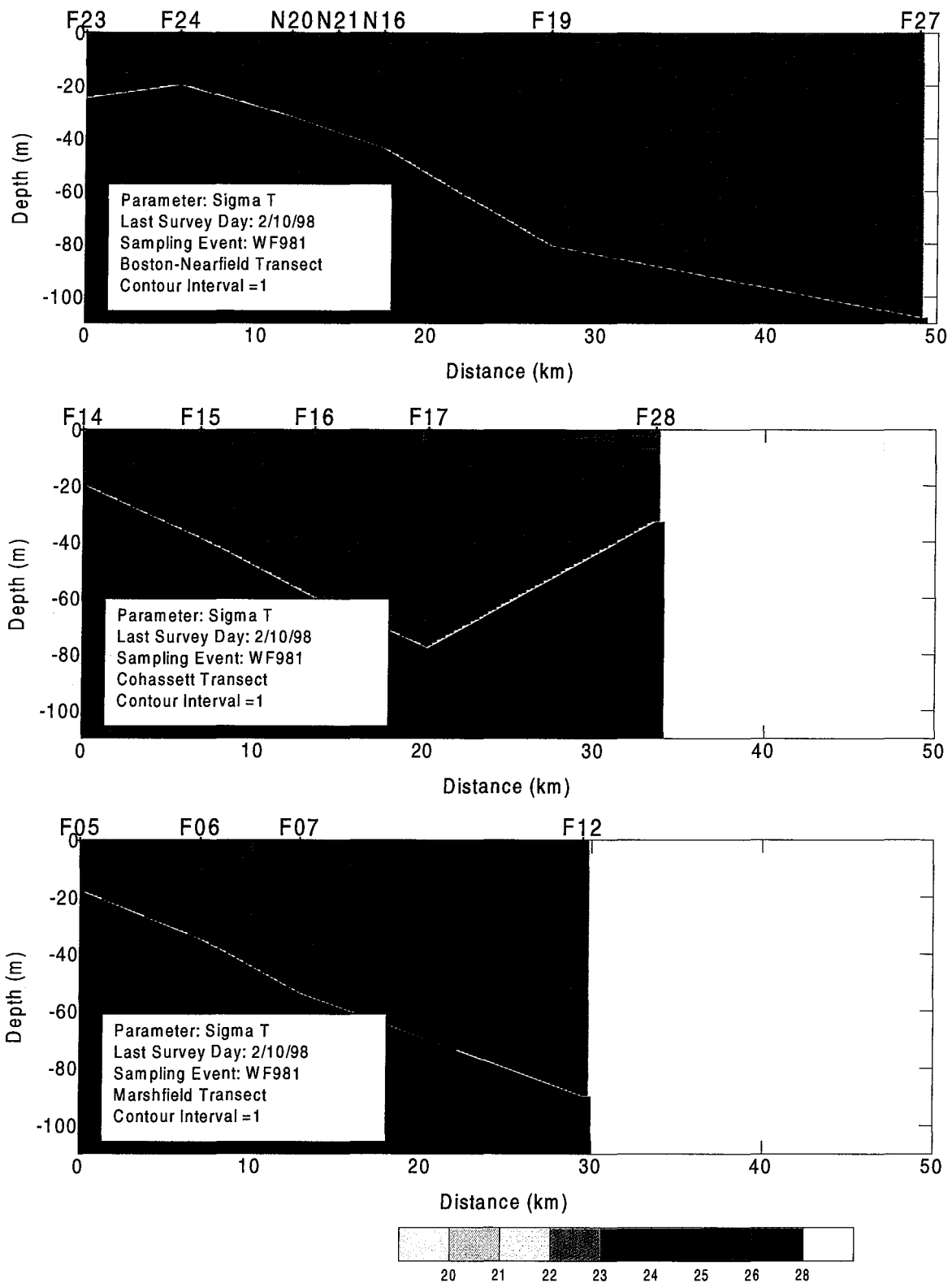


Figure C-1. Density Transect Plots (West - East) for Farfield Survey WF981 (Feb 98)

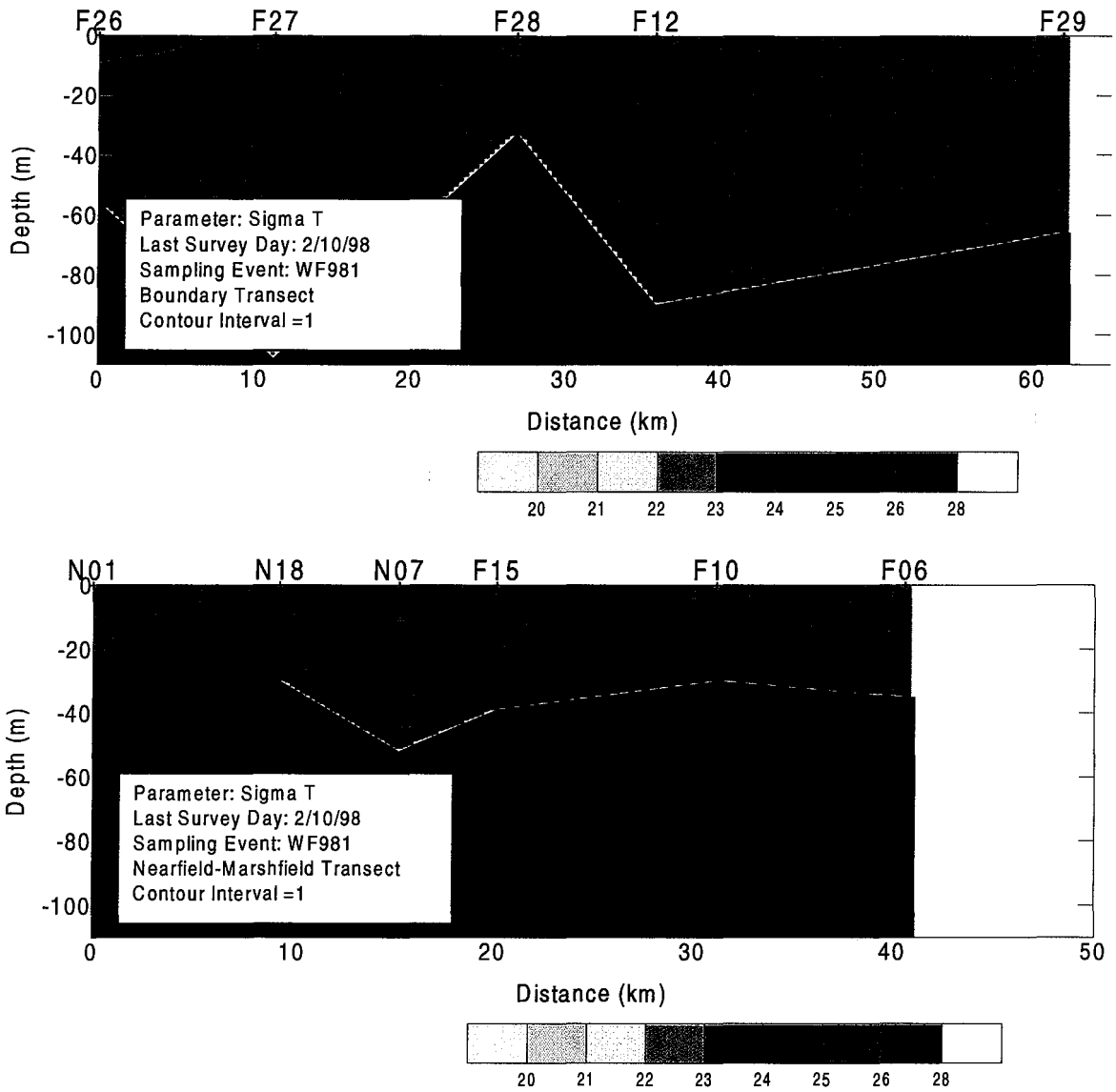


Figure C-2. Density Transect Plots (North - South) for Farfield Survey WF981 (Feb 98)

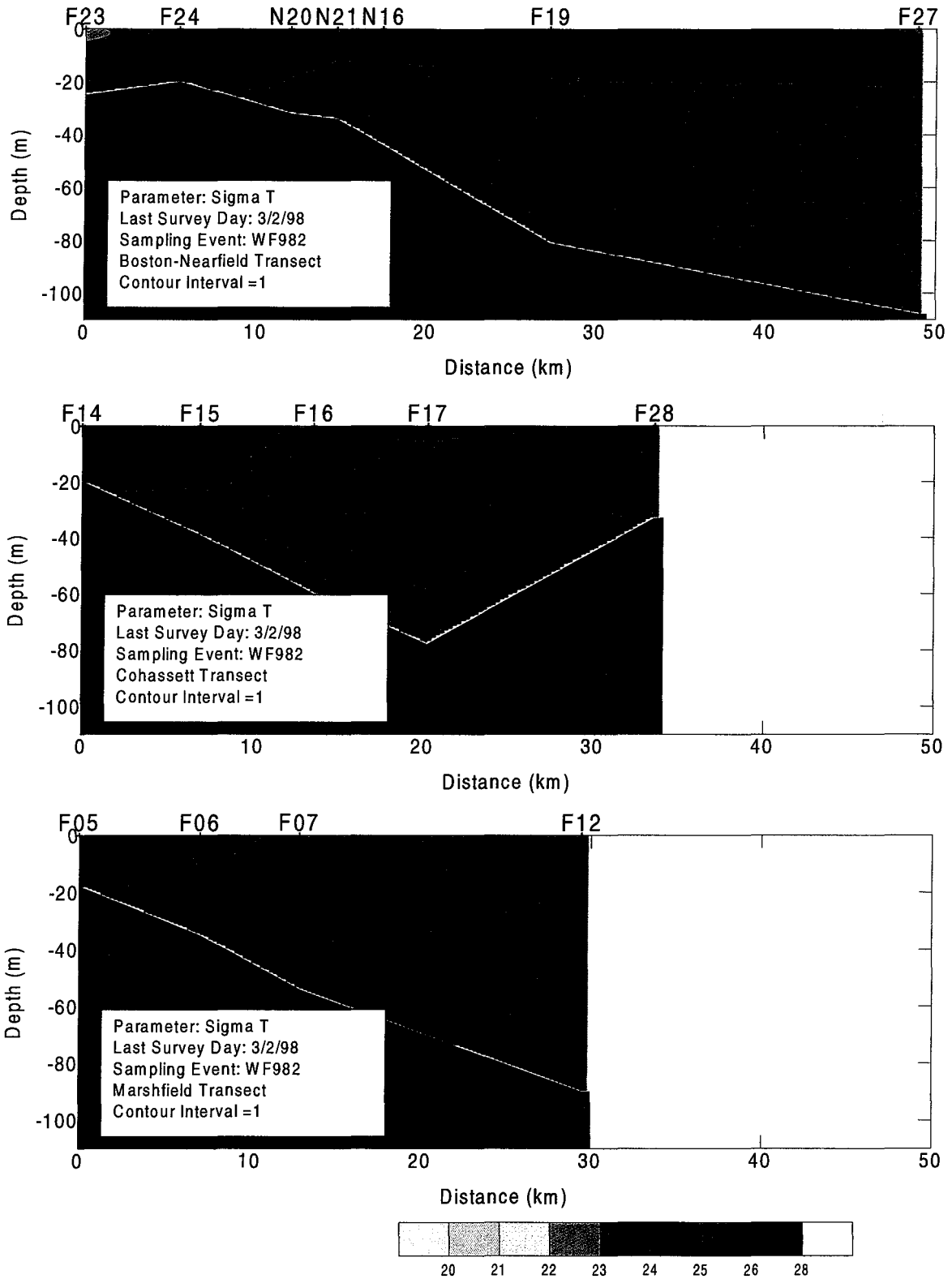


Figure C-3. Density Transect Plots (West - East) for Farfield Survey WF982 (Feb 98)

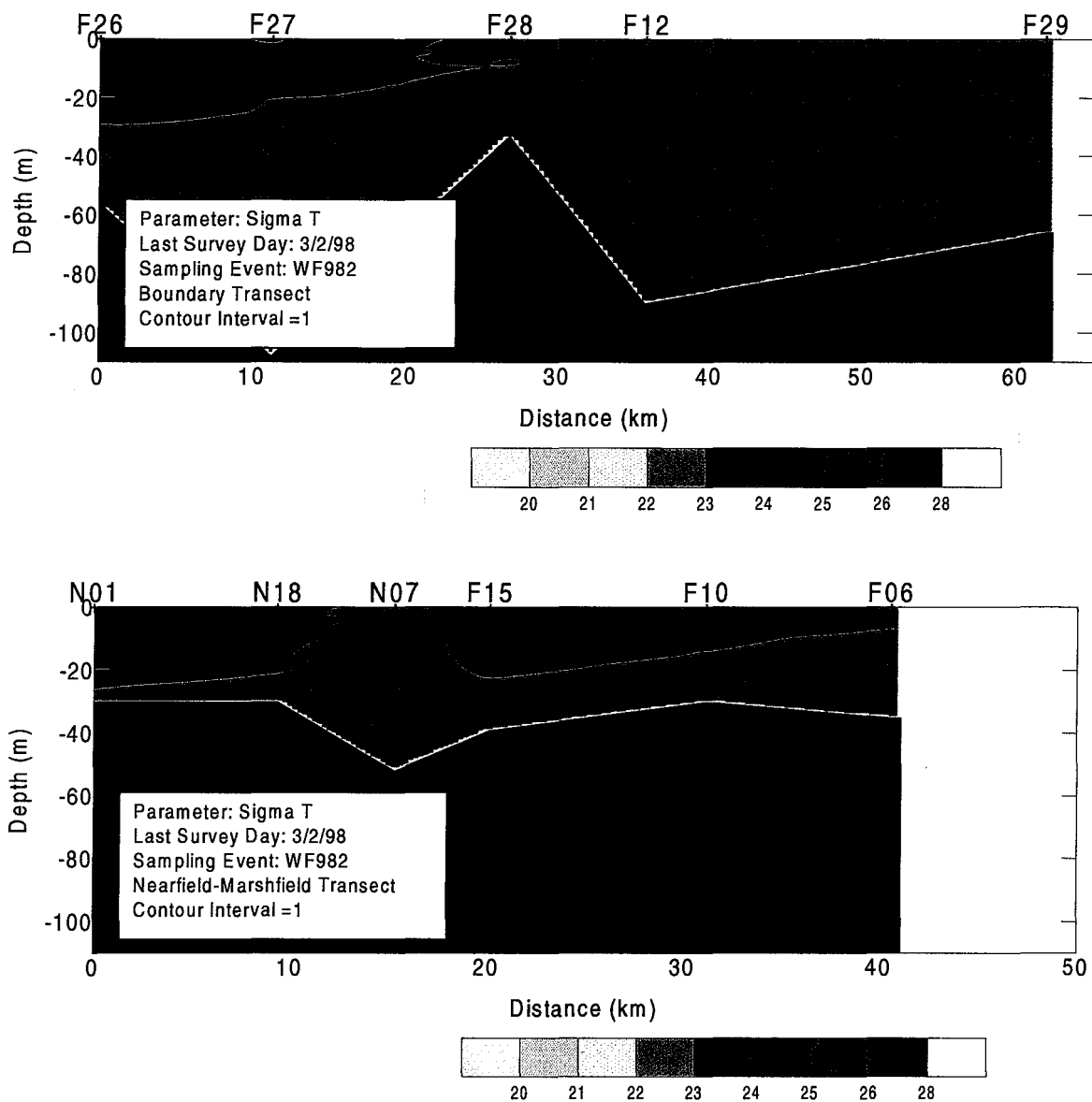


Figure C-4. Density Transect Plots (North - South) for Farfield Survey WF982 (Feb 98)

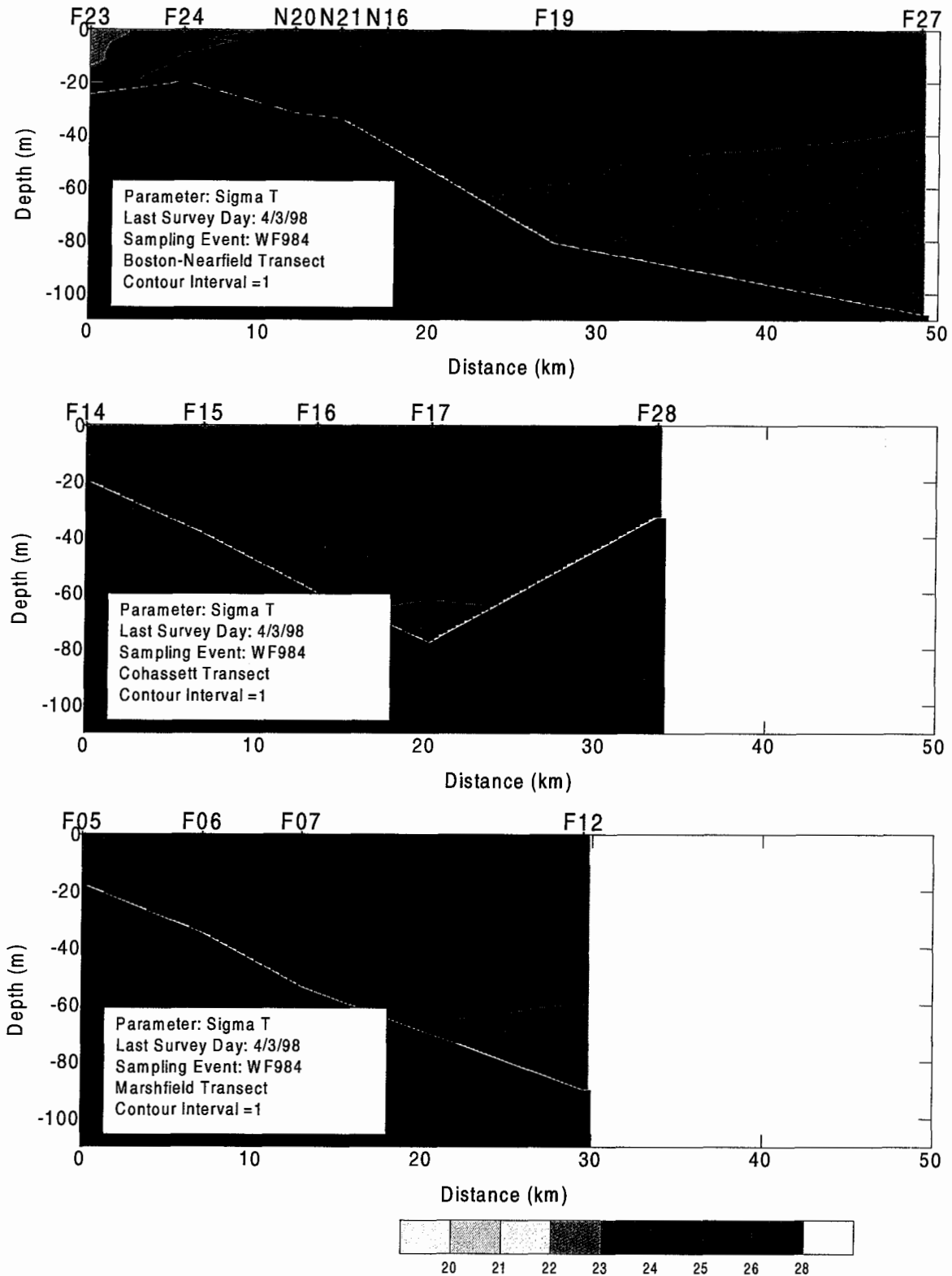


Figure C-5. Density Transect Plots (West - East) for Farfield Survey WF984 (Apr 98)

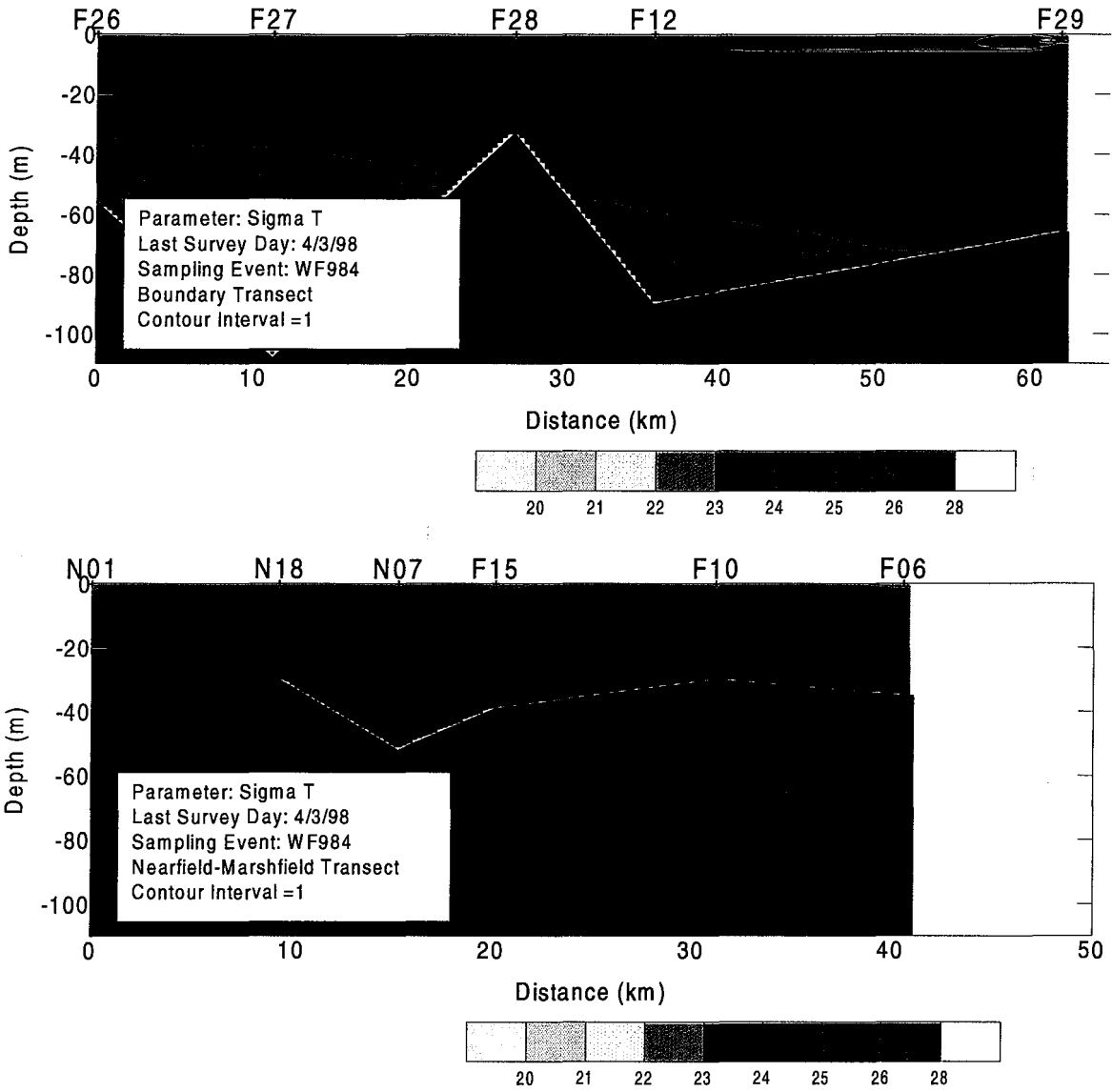


Figure C-6. Density Transect Plots (North - South) for Farfield Survey WF984 (Apr 98)

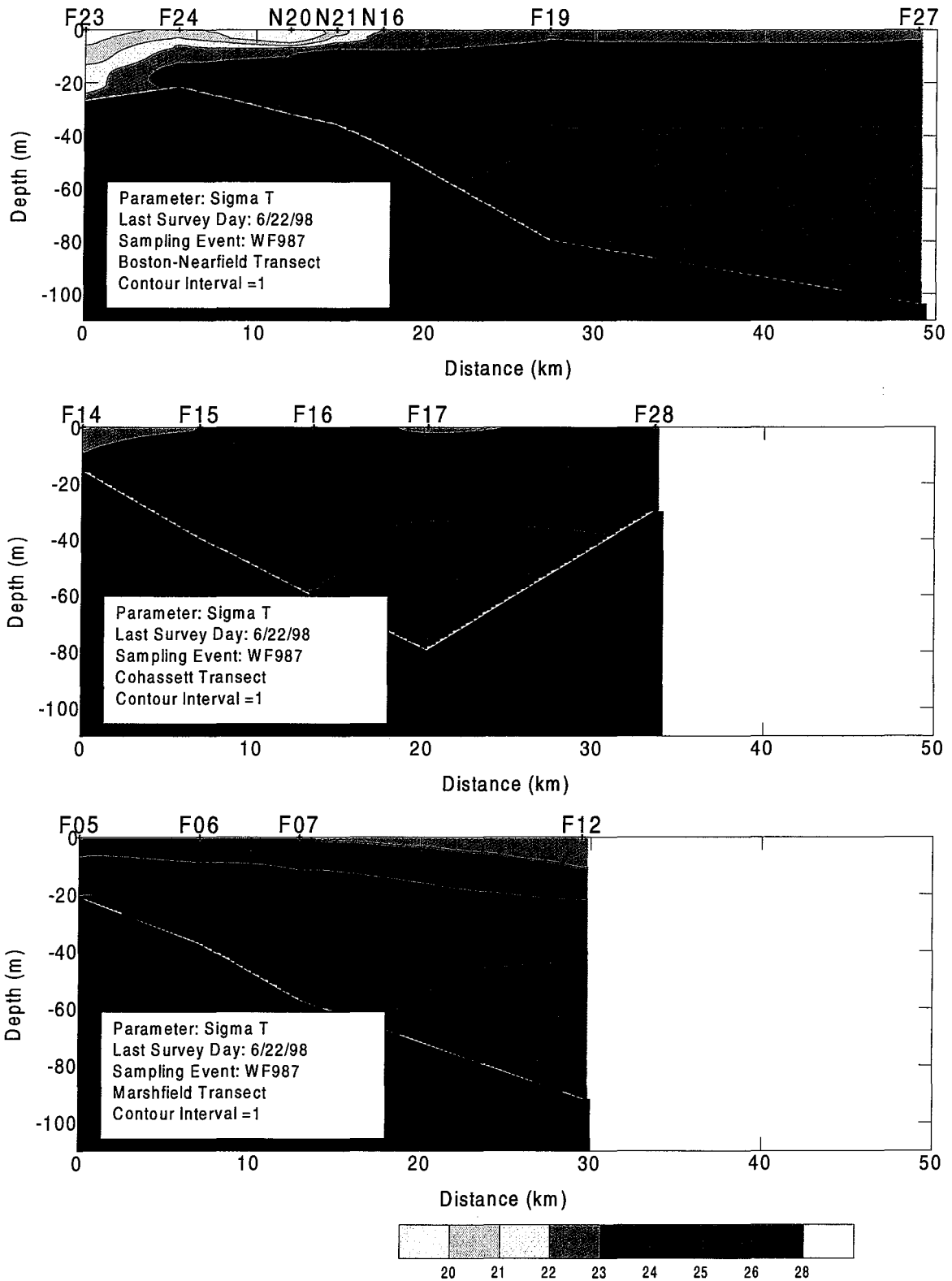


Figure C-7. Density Transect Plots (West - East) for Earfield Survey WF987 (Jun 98)

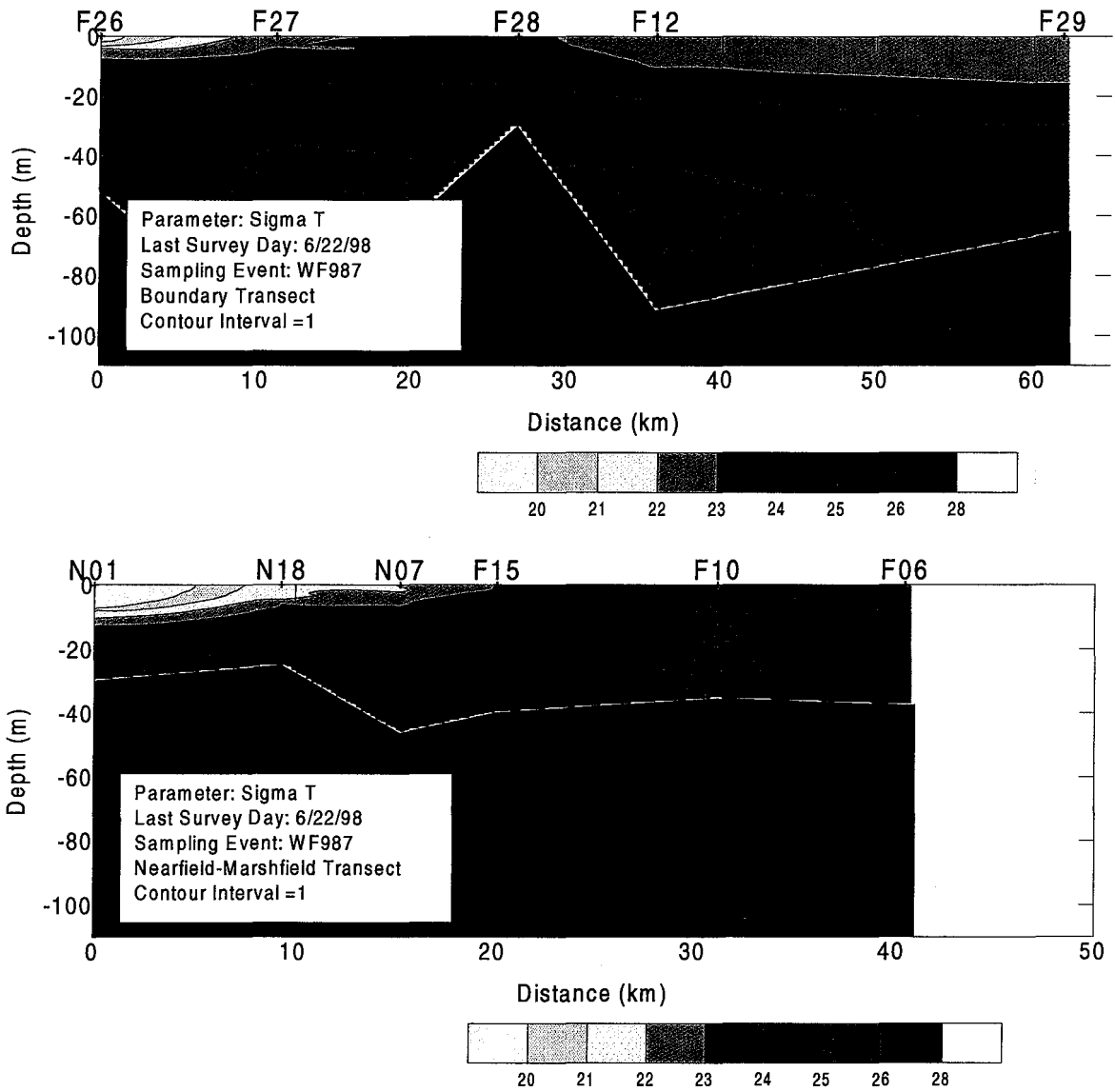


Figure C-8. Density Transect Plots (North - South) for Farfield Survey WF987 (Jun 98)

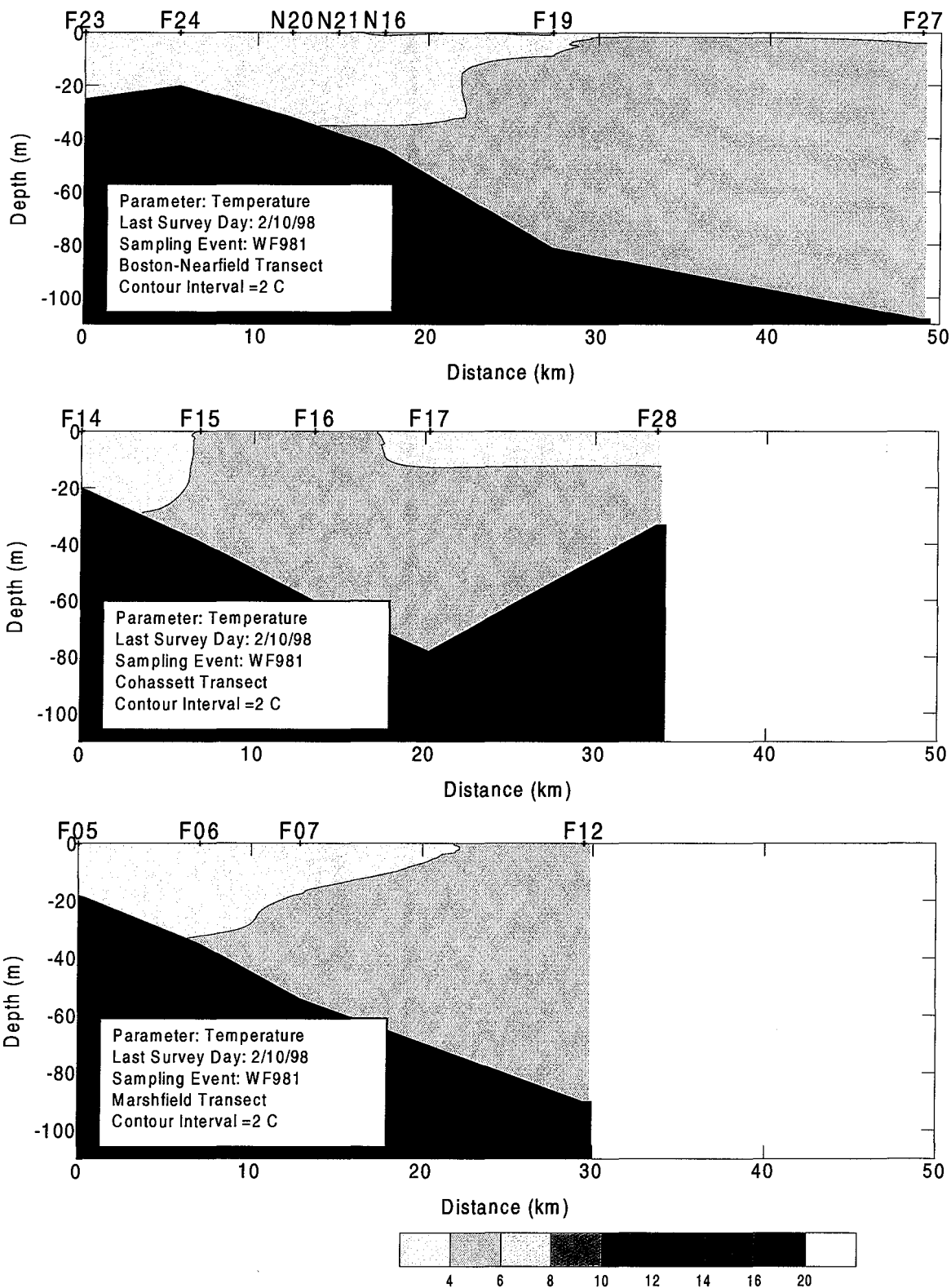


Figure C-9. Temperature Transect Plots (West - East) for Farfield Survey WF981 (Feb 98)

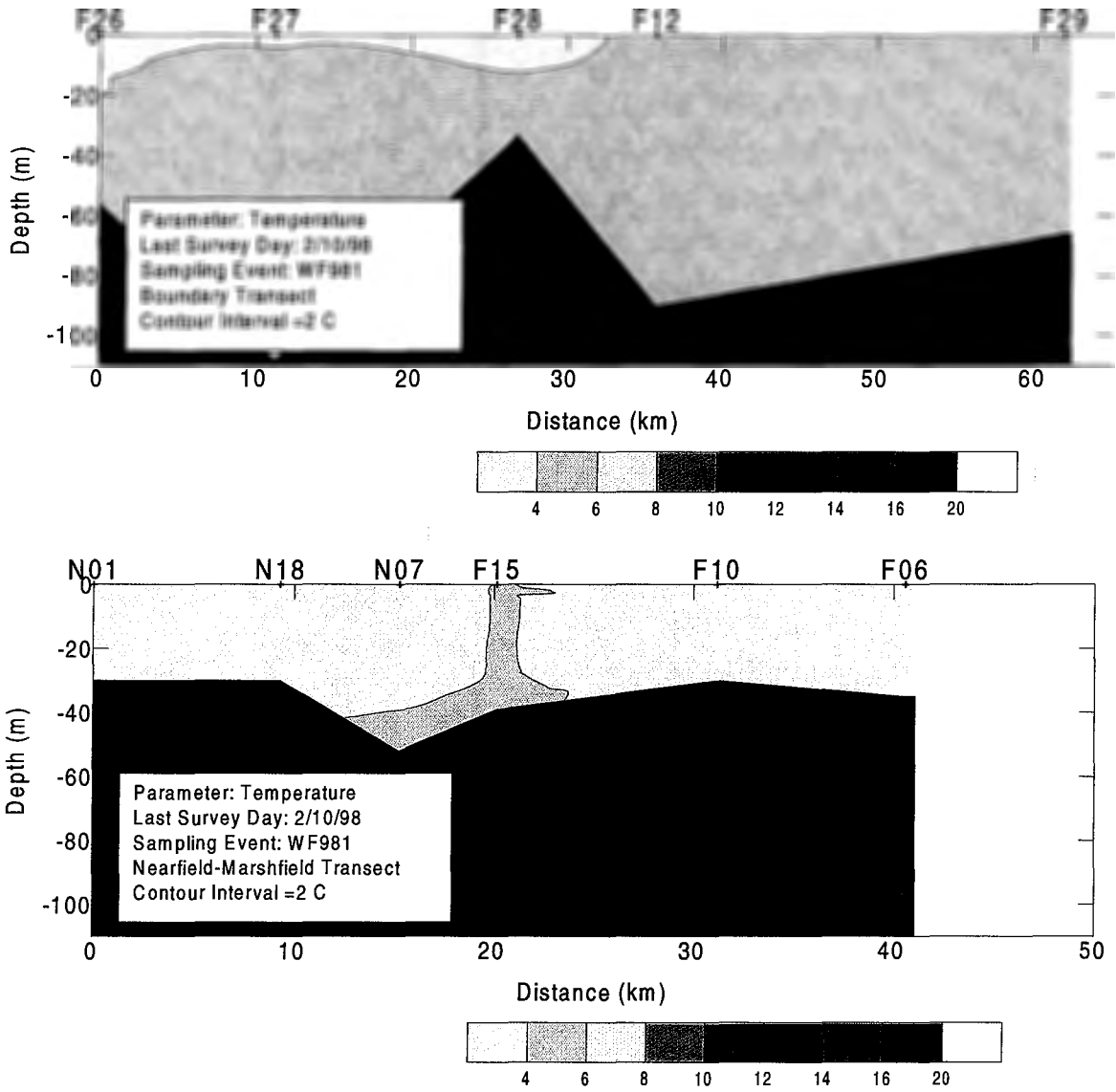


Figure C-10. Temperature Transect Plots (North - South) for Farfield Survey WF981 (Feb 98)

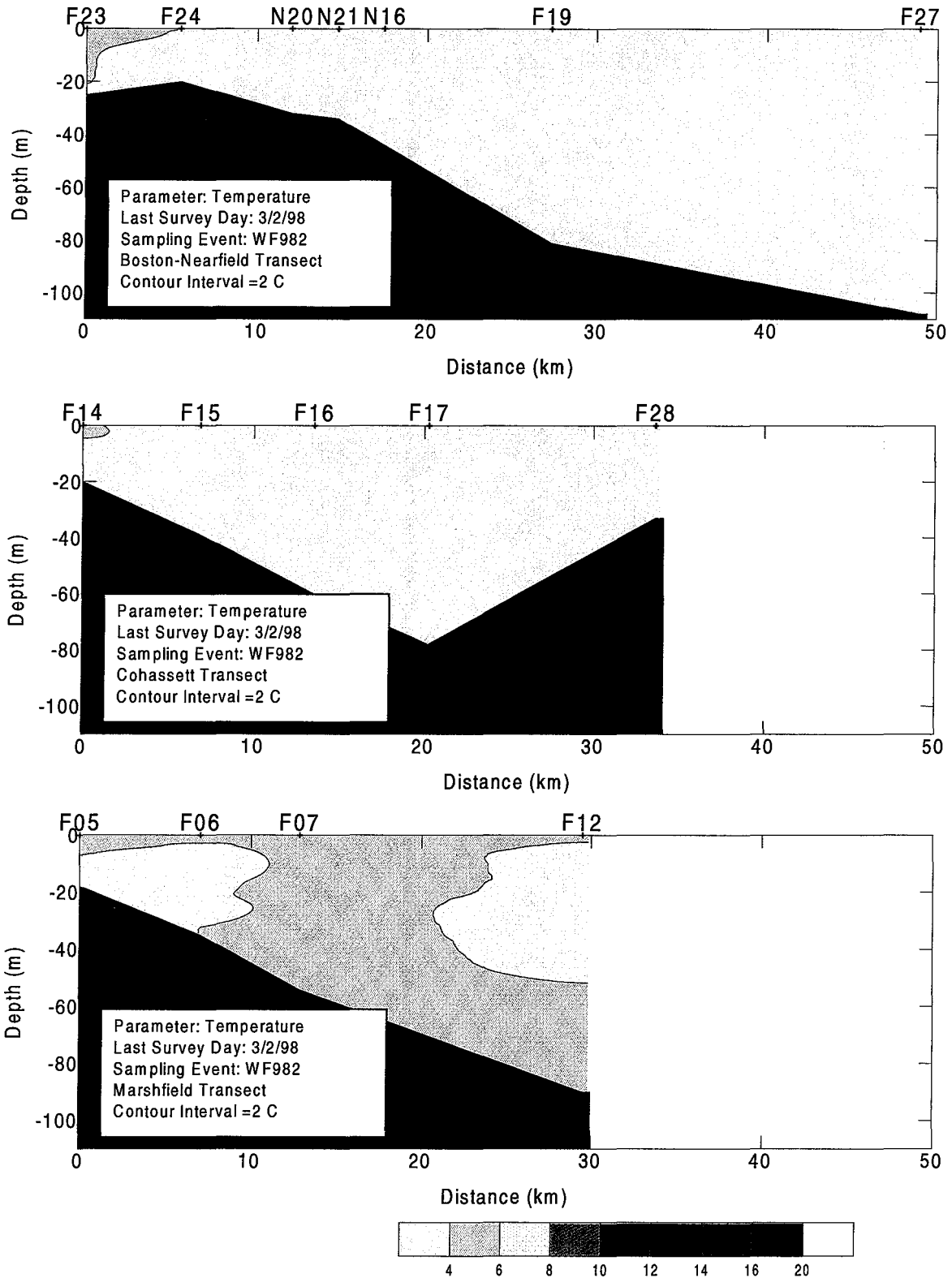


Figure C-11. Temperature Transect Plots (West – East) for Farfield Survey WF982 (Feb 98)

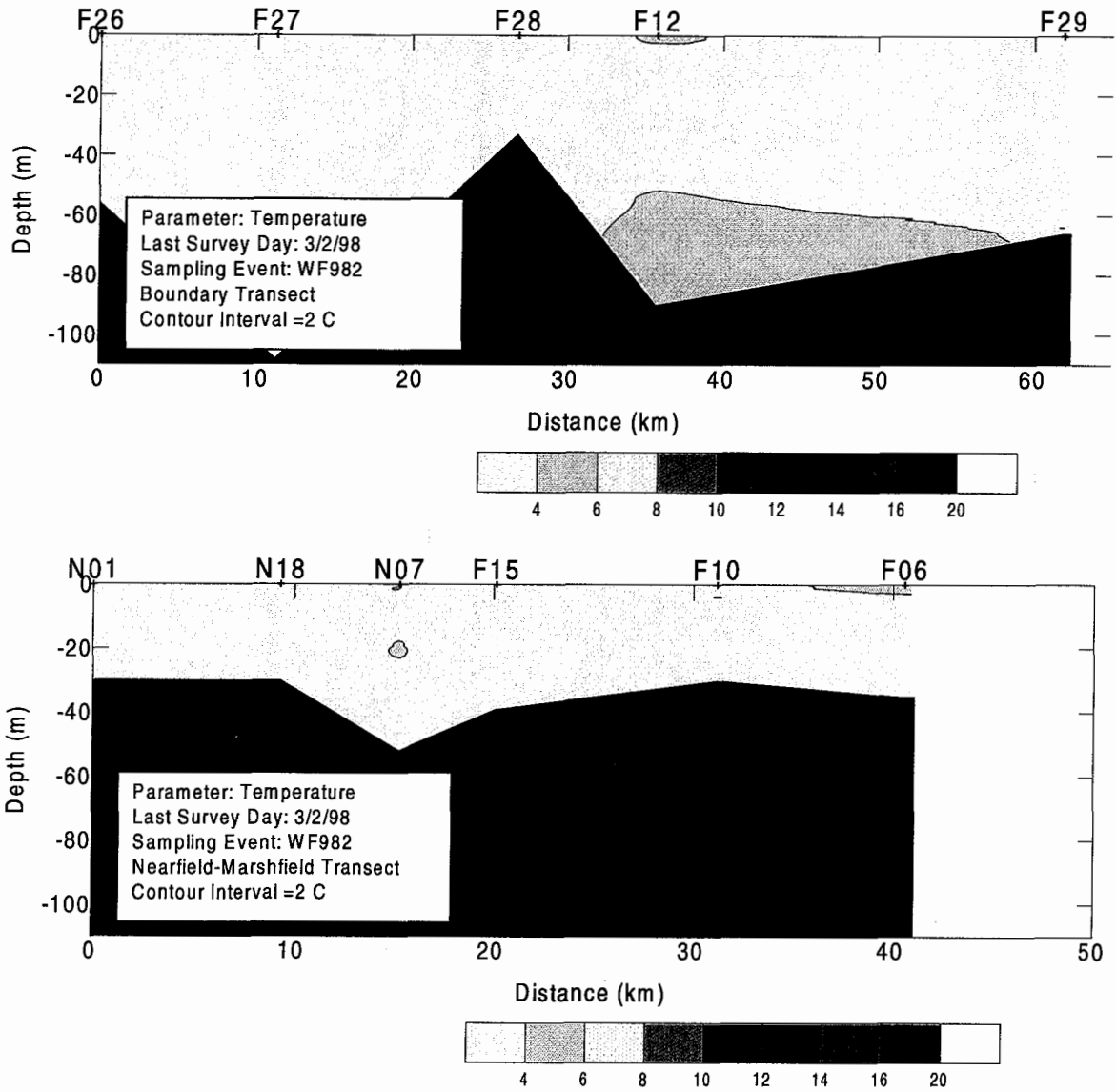


Figure C-12. Temperature Transect Plots (North - South) for Farfield Survey WF982 (Feb 98)

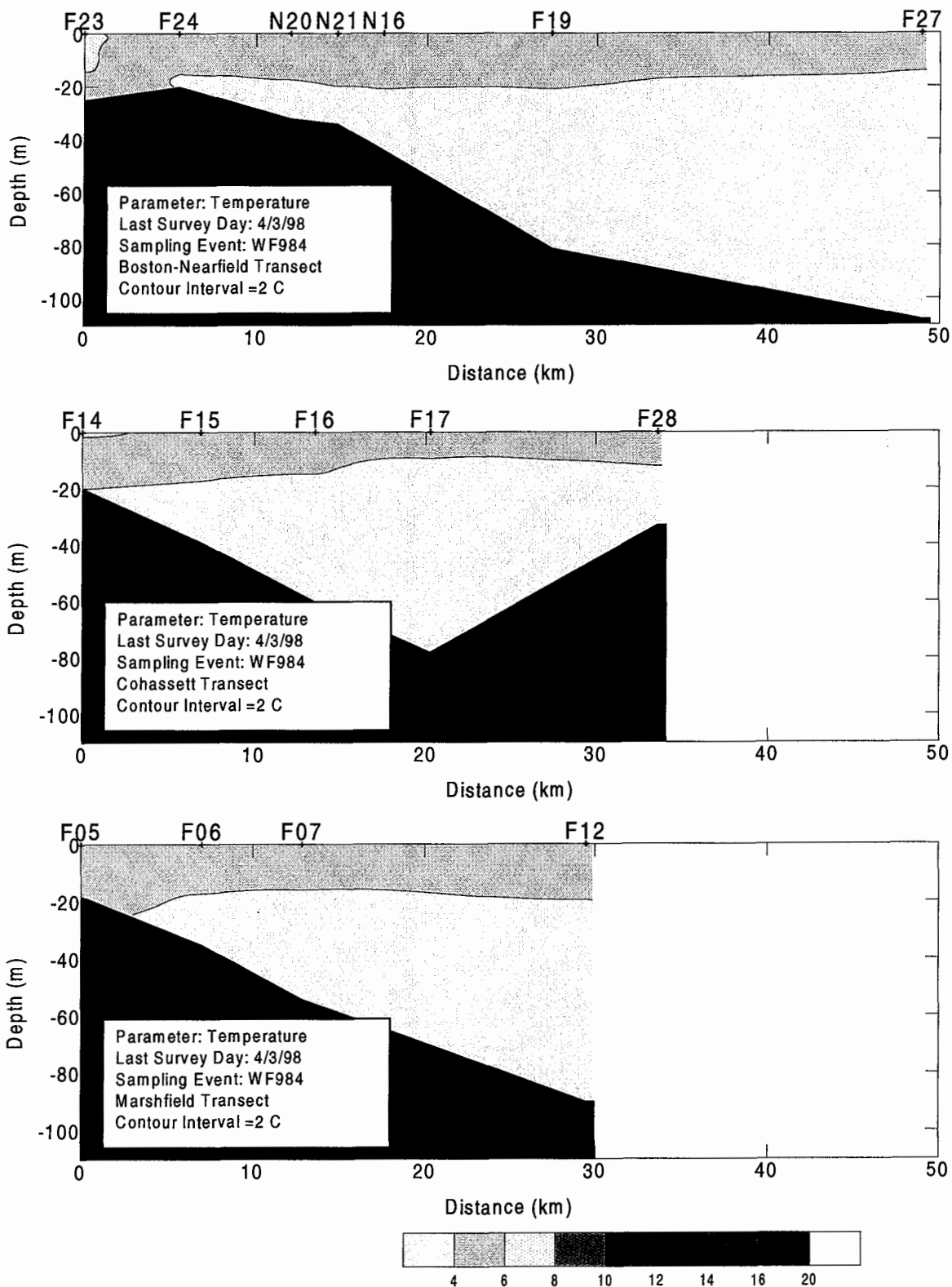


Figure C-13. Temperature Transect Plots (West – East) for Farfield Survey WF984 (Apr 98)

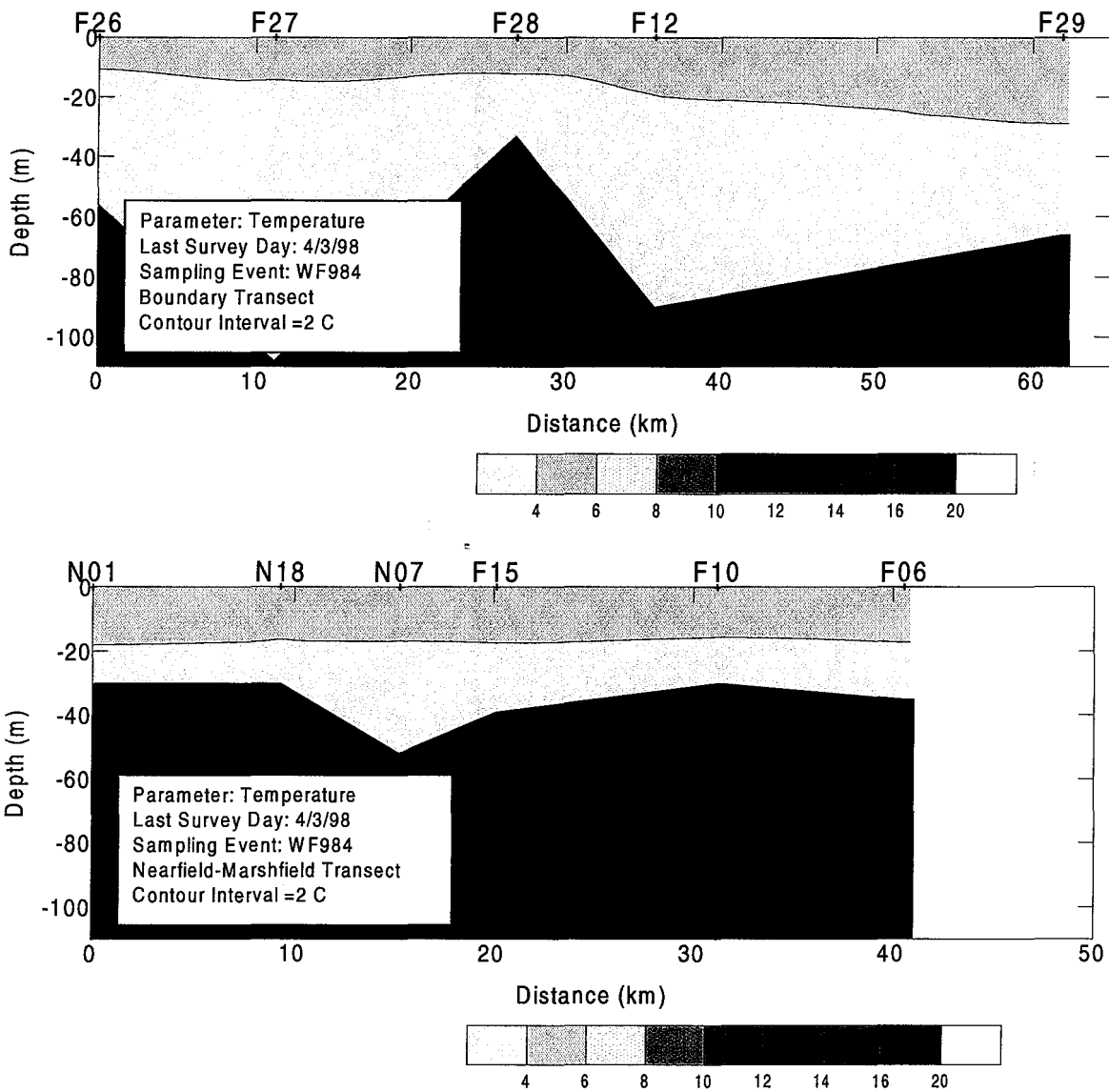
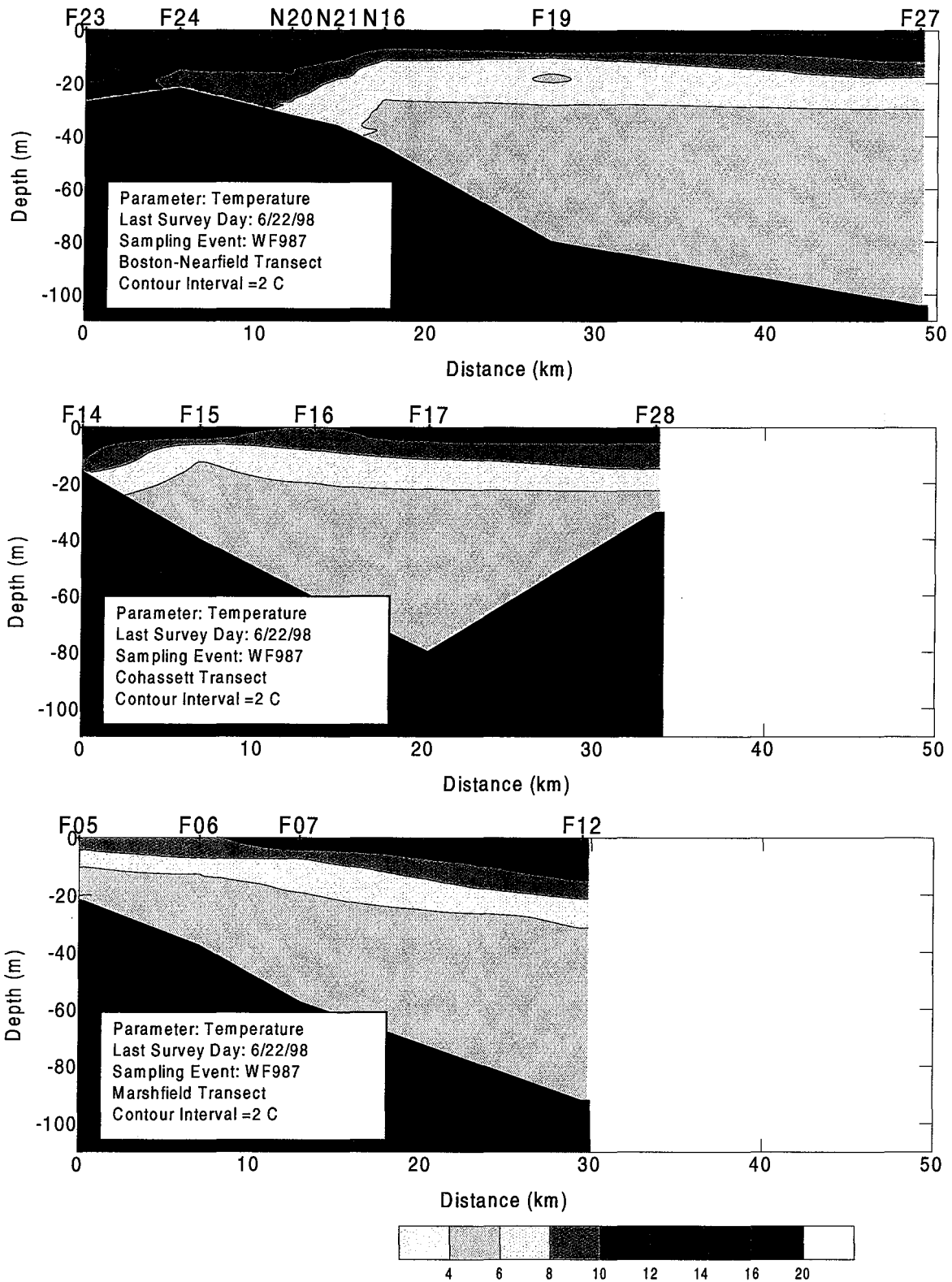


Figure C-14. Temperature Transect Plots (North - South) for Farfield Survey WF984 (Apr 98)



**Figure C-15. Temperature Transect Plots (West – East) for
 Earfield Survey WF987 (Jun 98)**

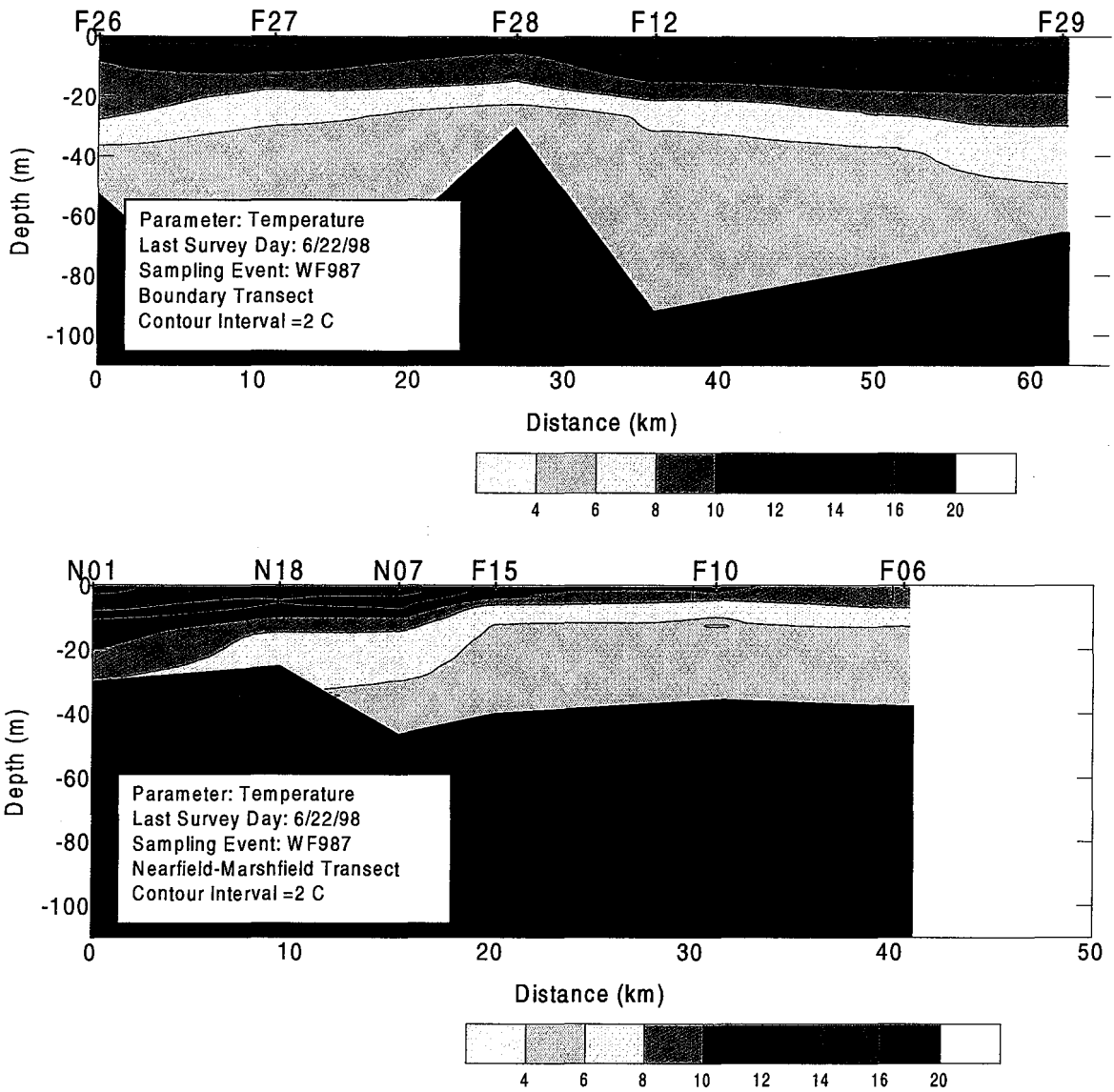


Figure C-16. Temperature Transect Plots (North - South) for Farfield Survey WF987 (Jun 98)

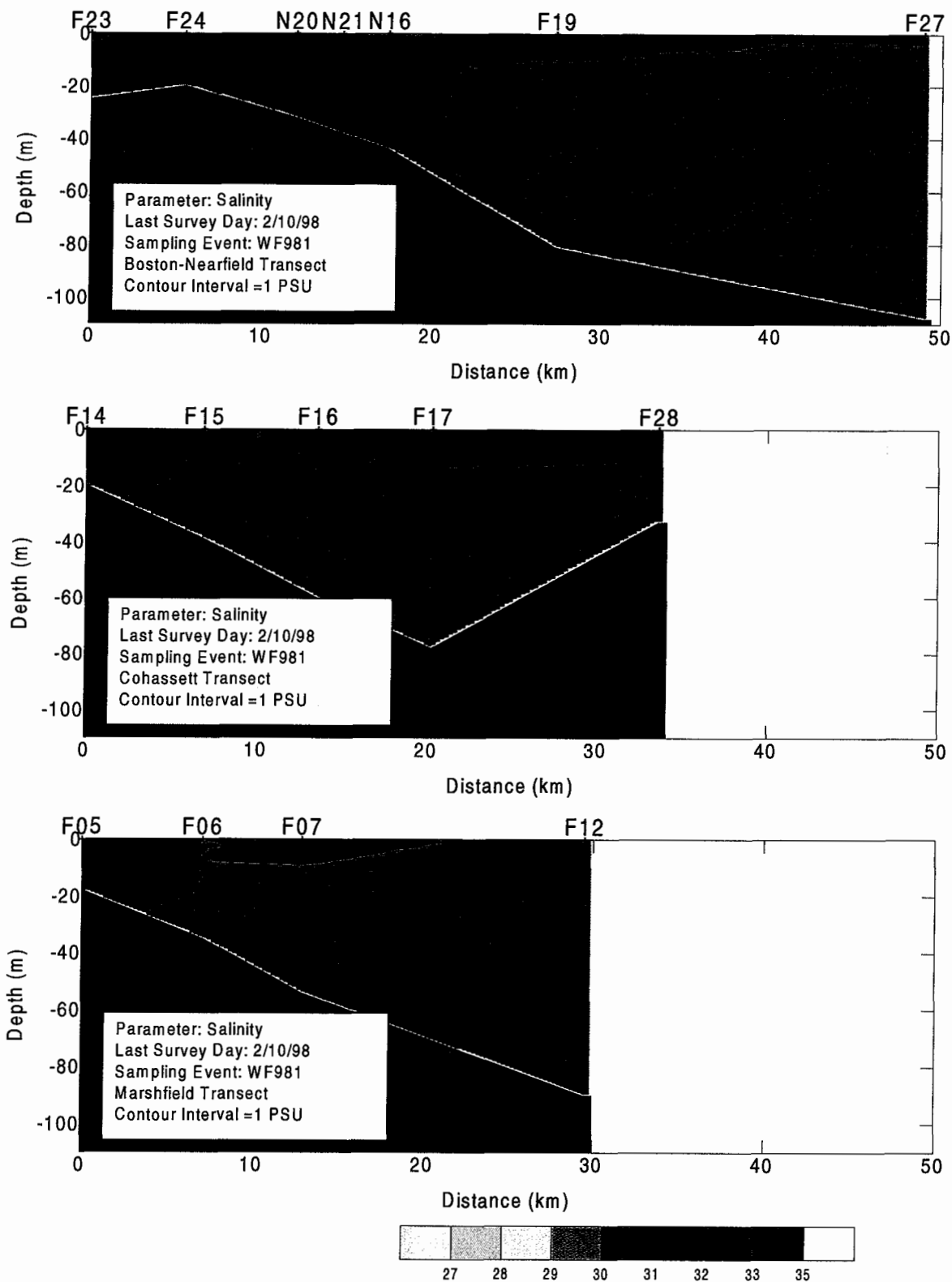


Figure C-17. Salinity Transect Plots (West - East) for Farfield Survey WF981 (Feb 98)

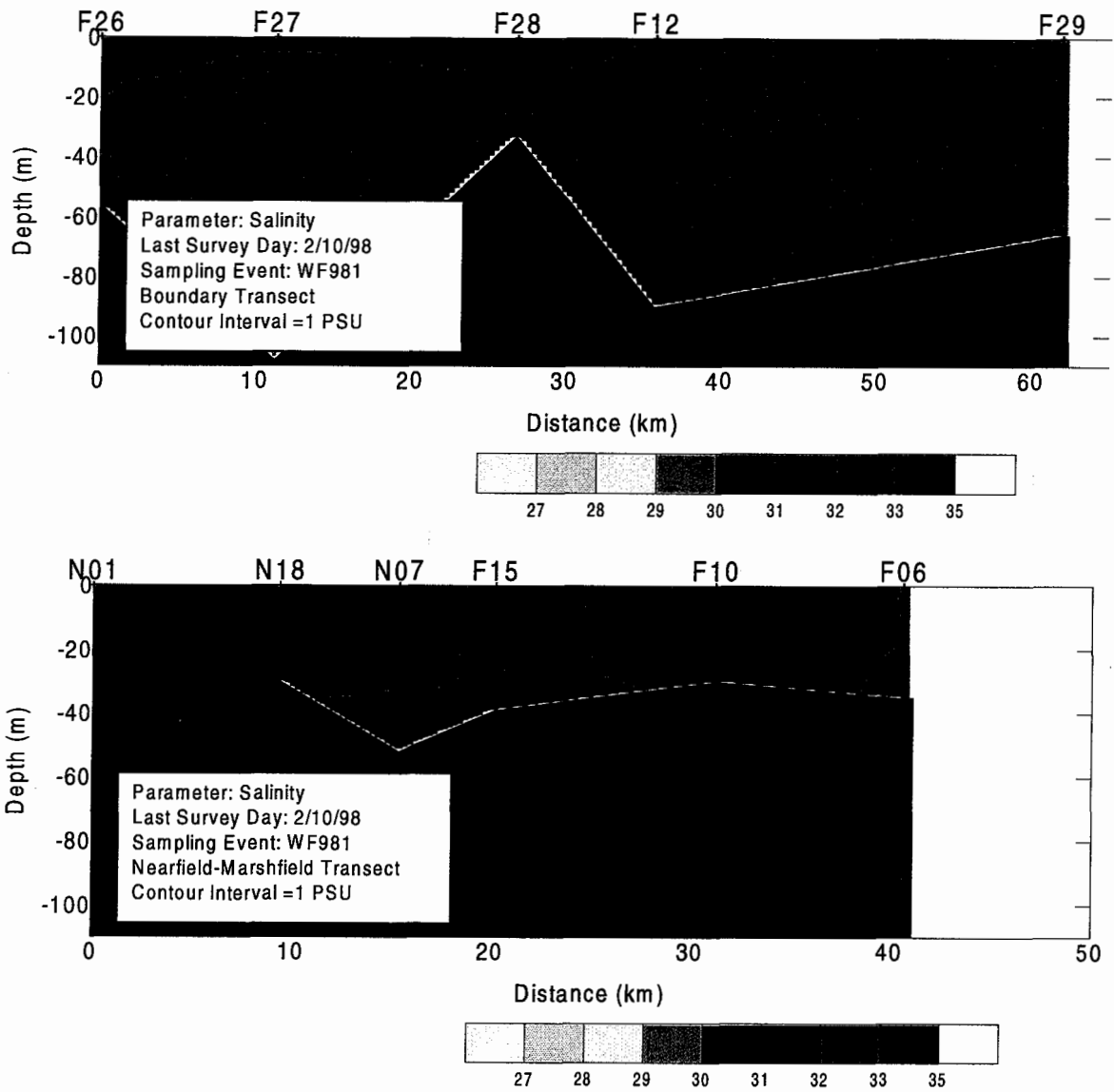


Figure C-18. Salinity Transect Plots (North - South) for Farfield Survey WF981 (Feb 98)

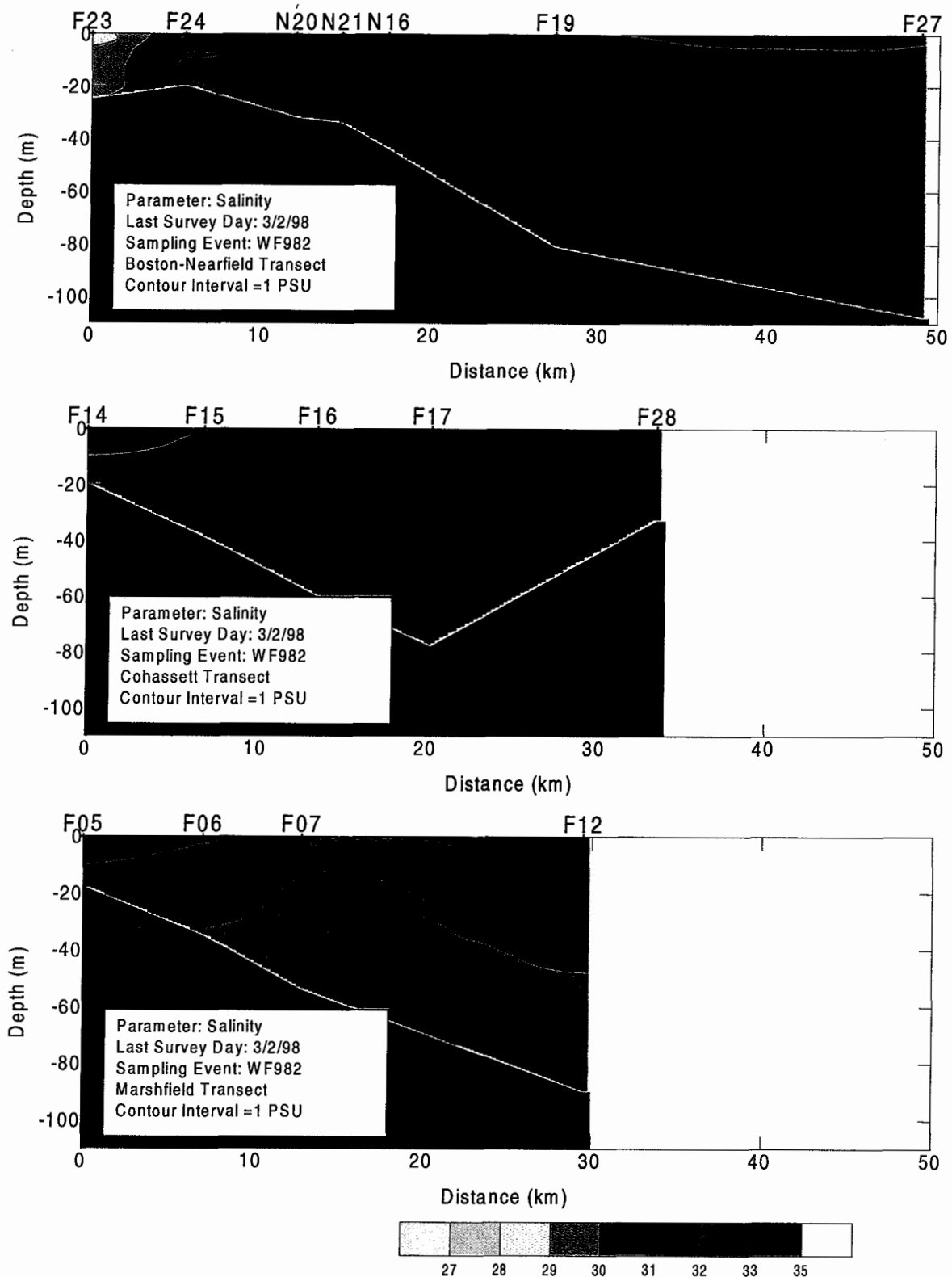


Figure C-19. Salinity Transect Plots (West - East) for Farfield Survey WF982 (Feb 98)

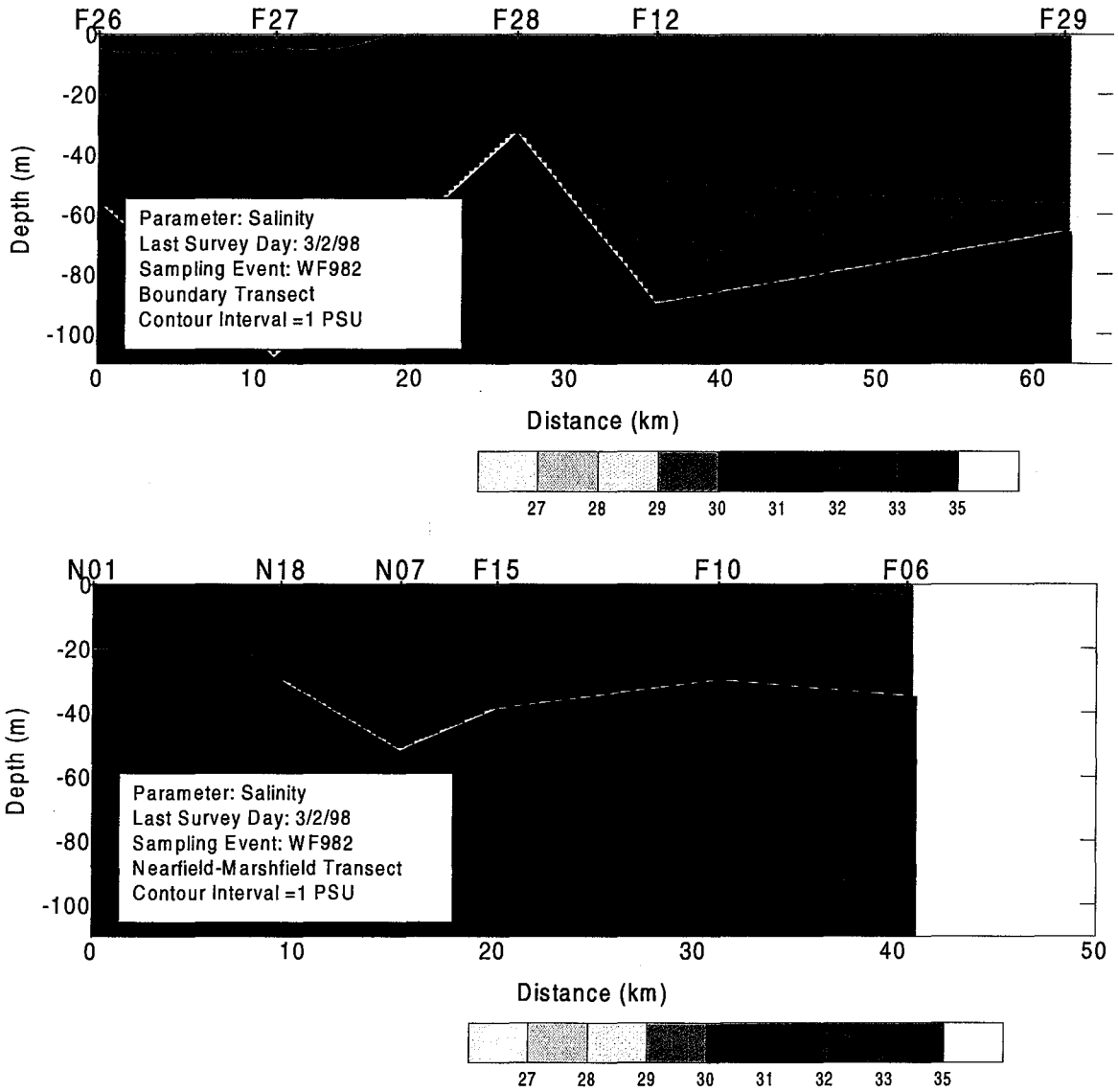


Figure C-20. Salinity Transect Plots (North - South) for Farfield Survey WF982 (Feb 98)

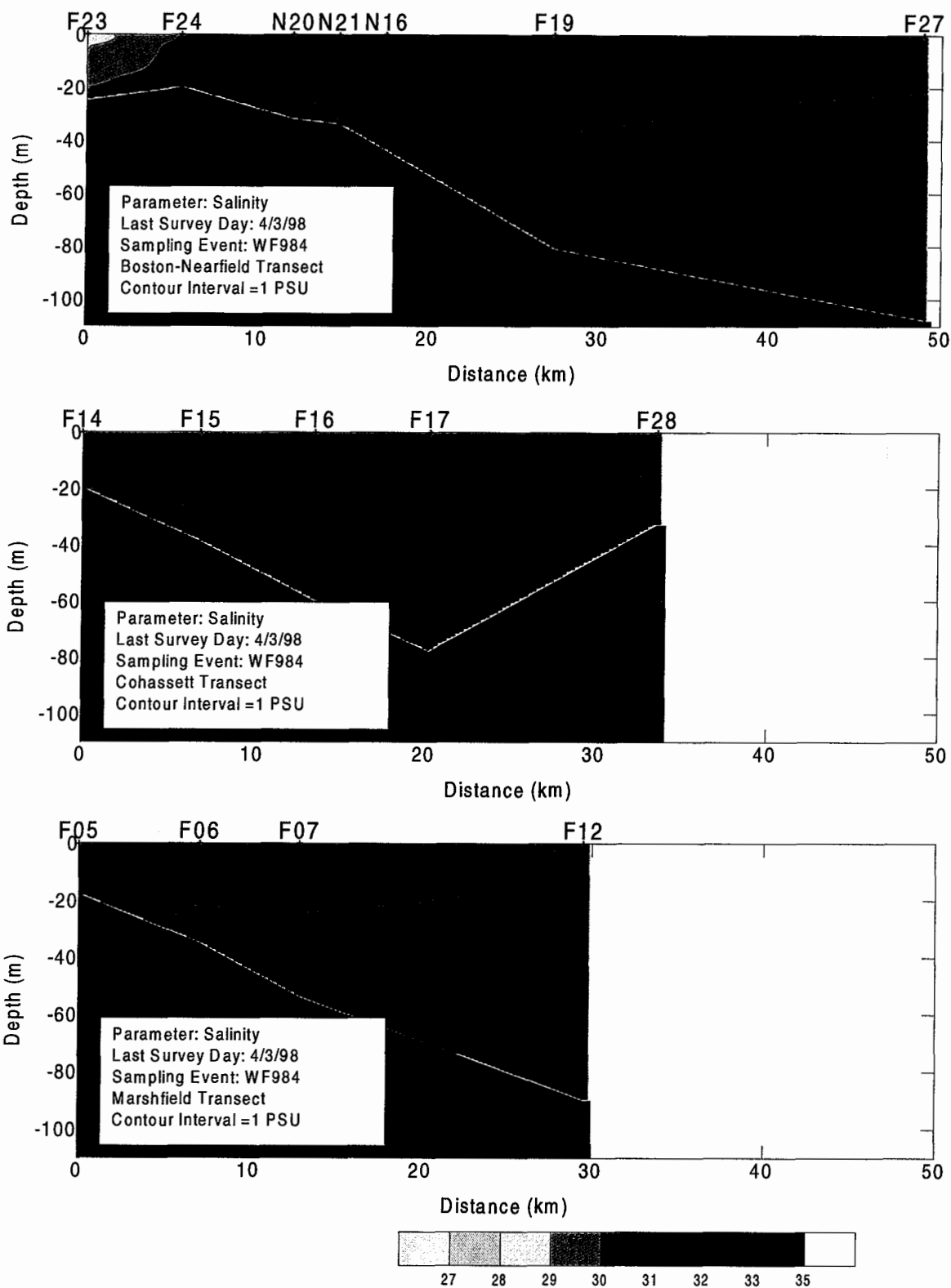


Figure C-21. Salinity Transect Plots (West - East) for Farfield Survey WF984 (Apr 98)

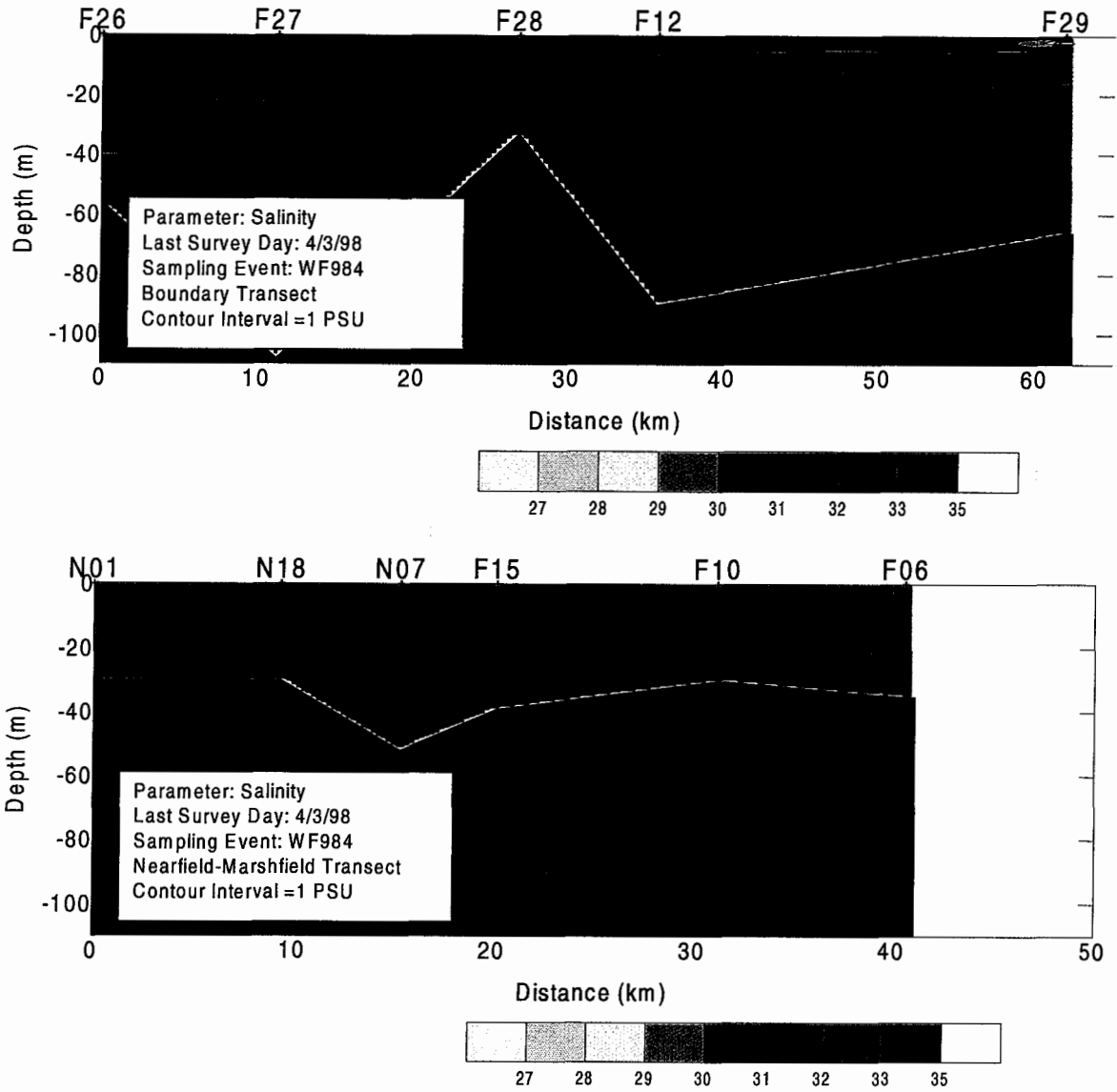


Figure C-22. Salinity Transect Plots (North - South) for Farfield Survey WF984 (Apr 98)

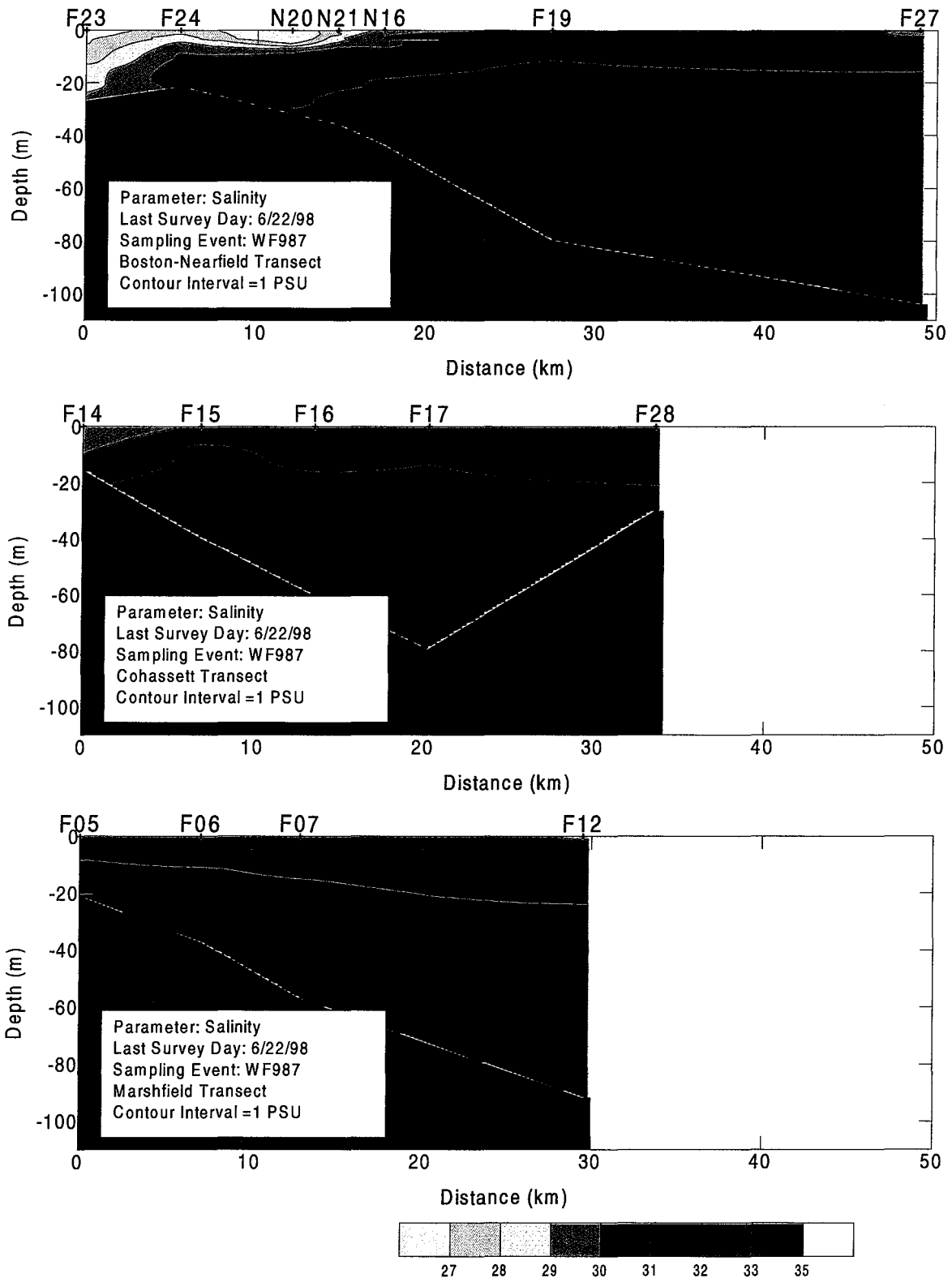


Figure C-23. Salinity Transect Plots (West - East) for Earfield Survey WF987 (Jun 98)

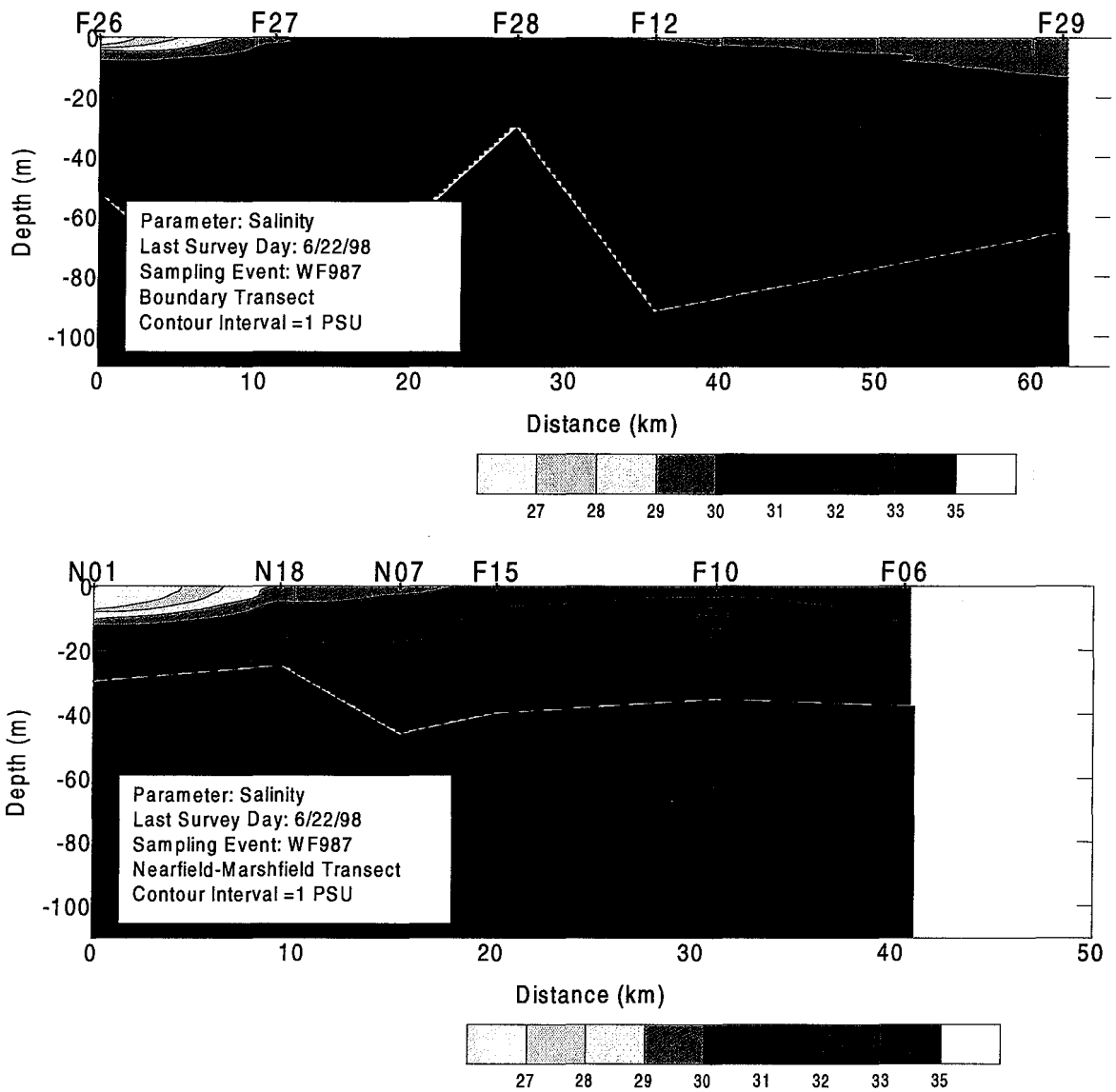


Figure C-24. Salinity Transect Plots (North - South) for Farfield Survey WF987 (Jun 98)

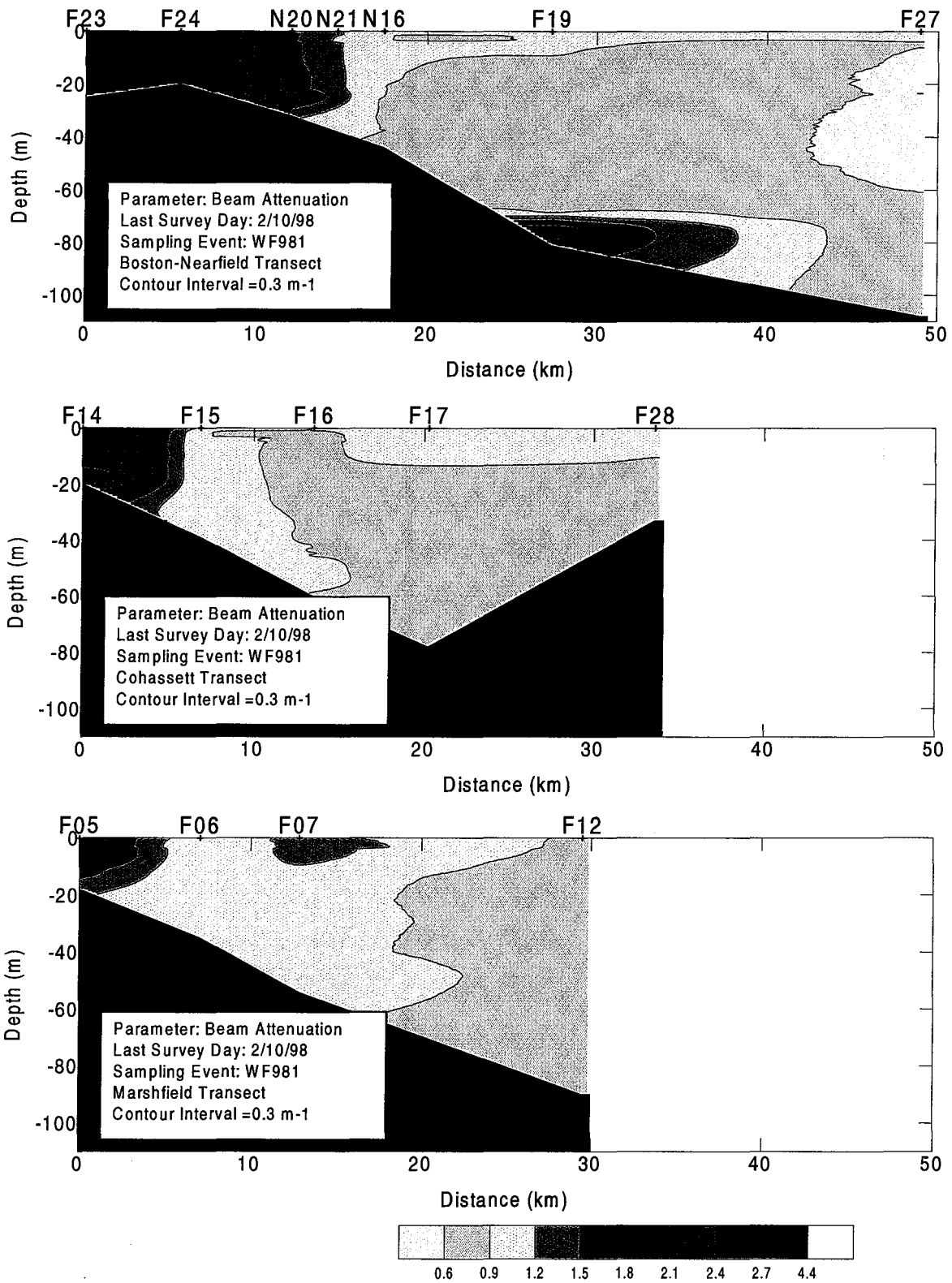


Figure C-25. Beam Attenuation Transect Plots (West - East) for Farfield Survey WF981 (Feb 98)

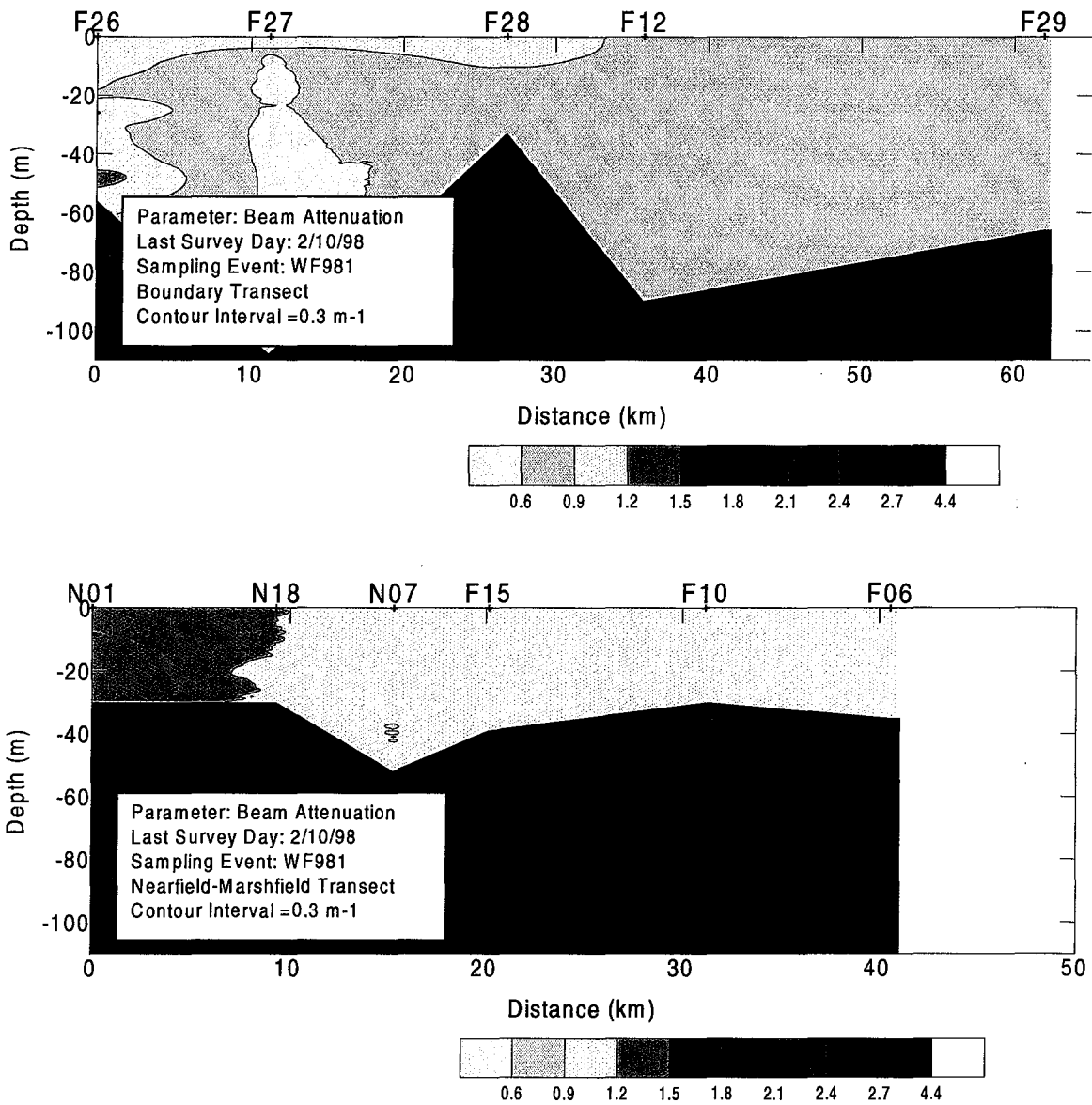


Figure C-26. Beam Attenuation Transect Plots (North - South) for Farfield Survey WF981 (Feb 98)

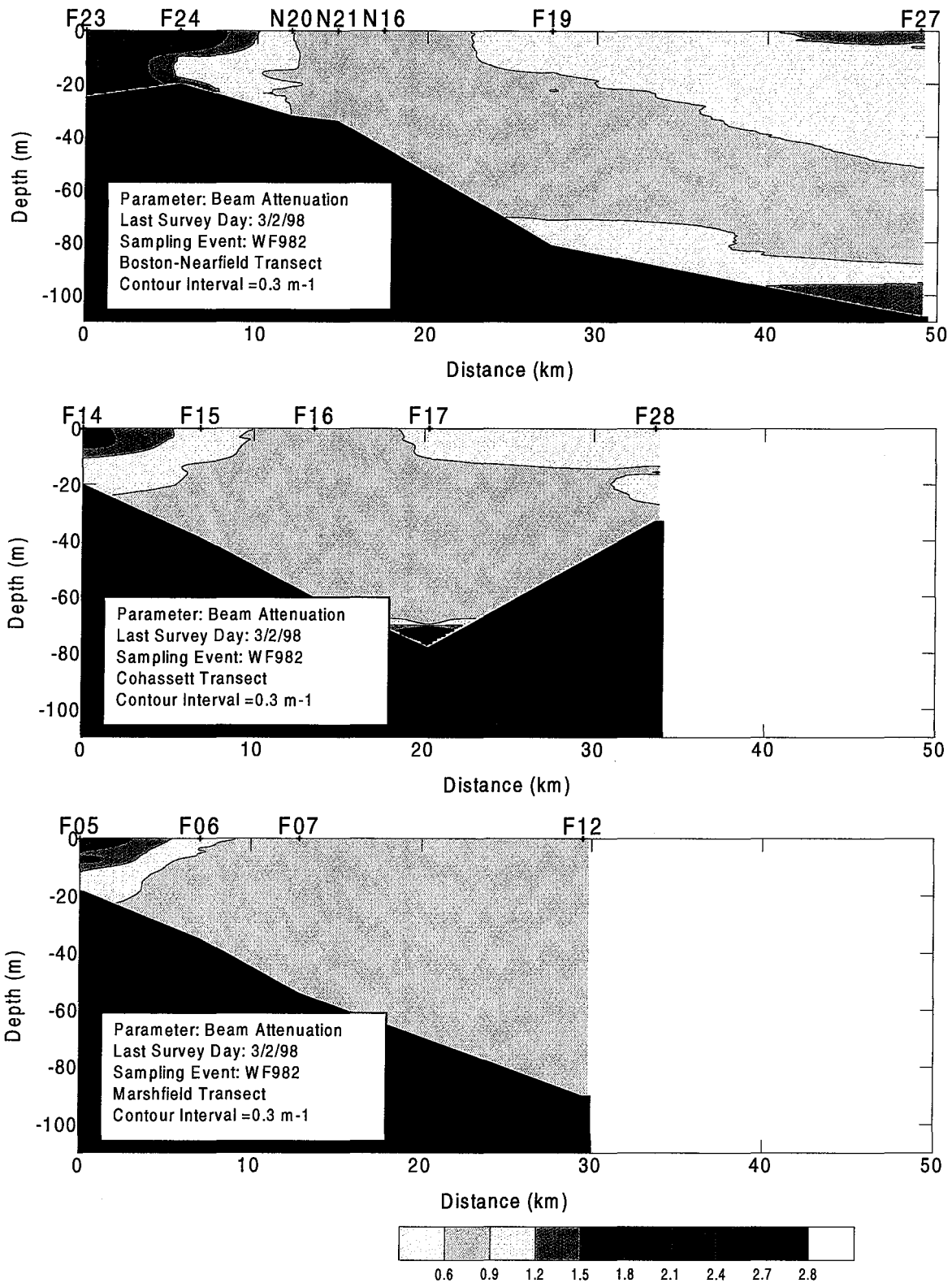


Figure C-27. Beam Attenuation Transect Plots (West - East) for Farfield Survey WF982 (Feb 98)

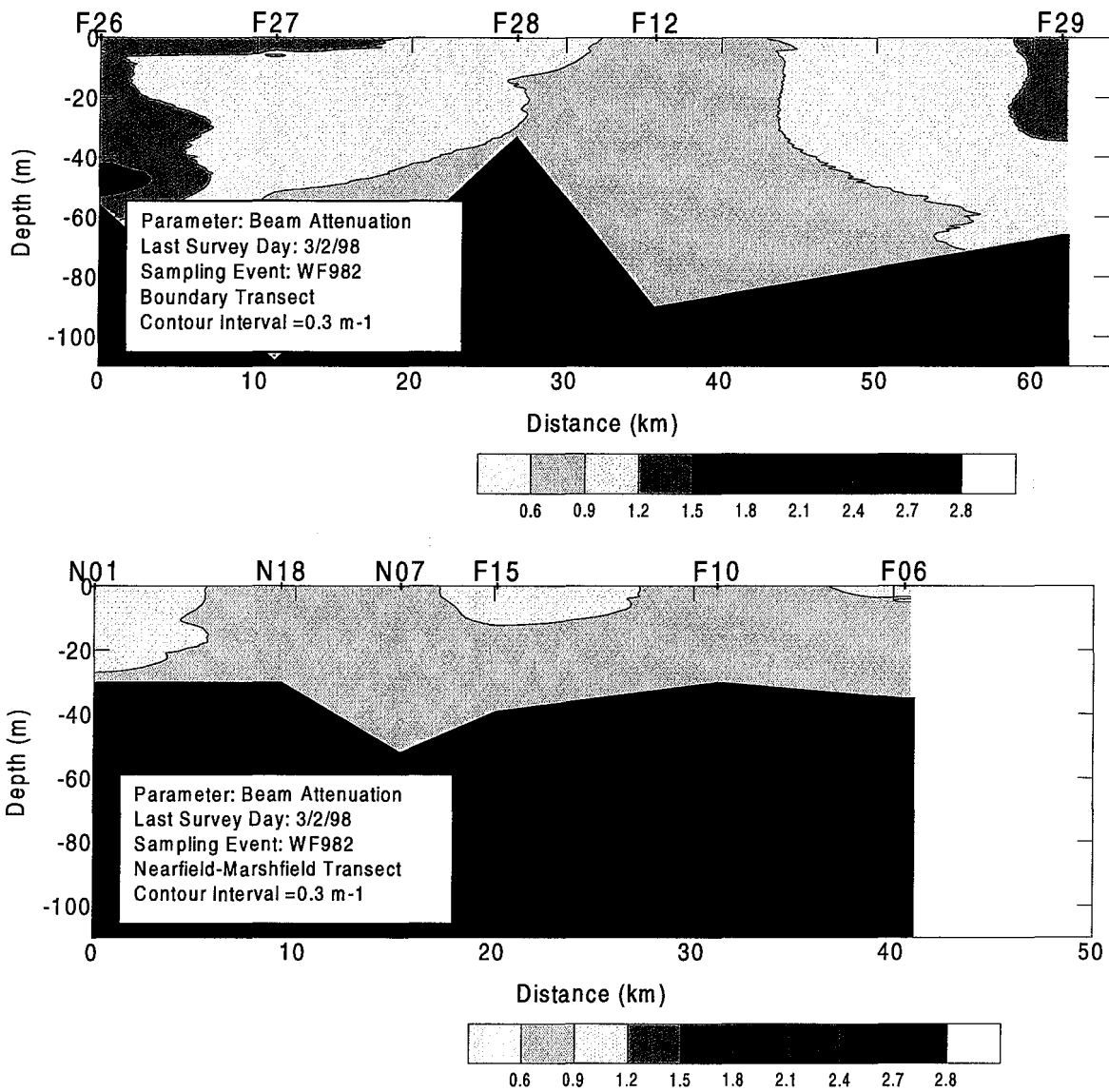


Figure C-28. Beam Attenuation Transect Plots (North - South) for Farfield Survey WF982 (Feb 98)

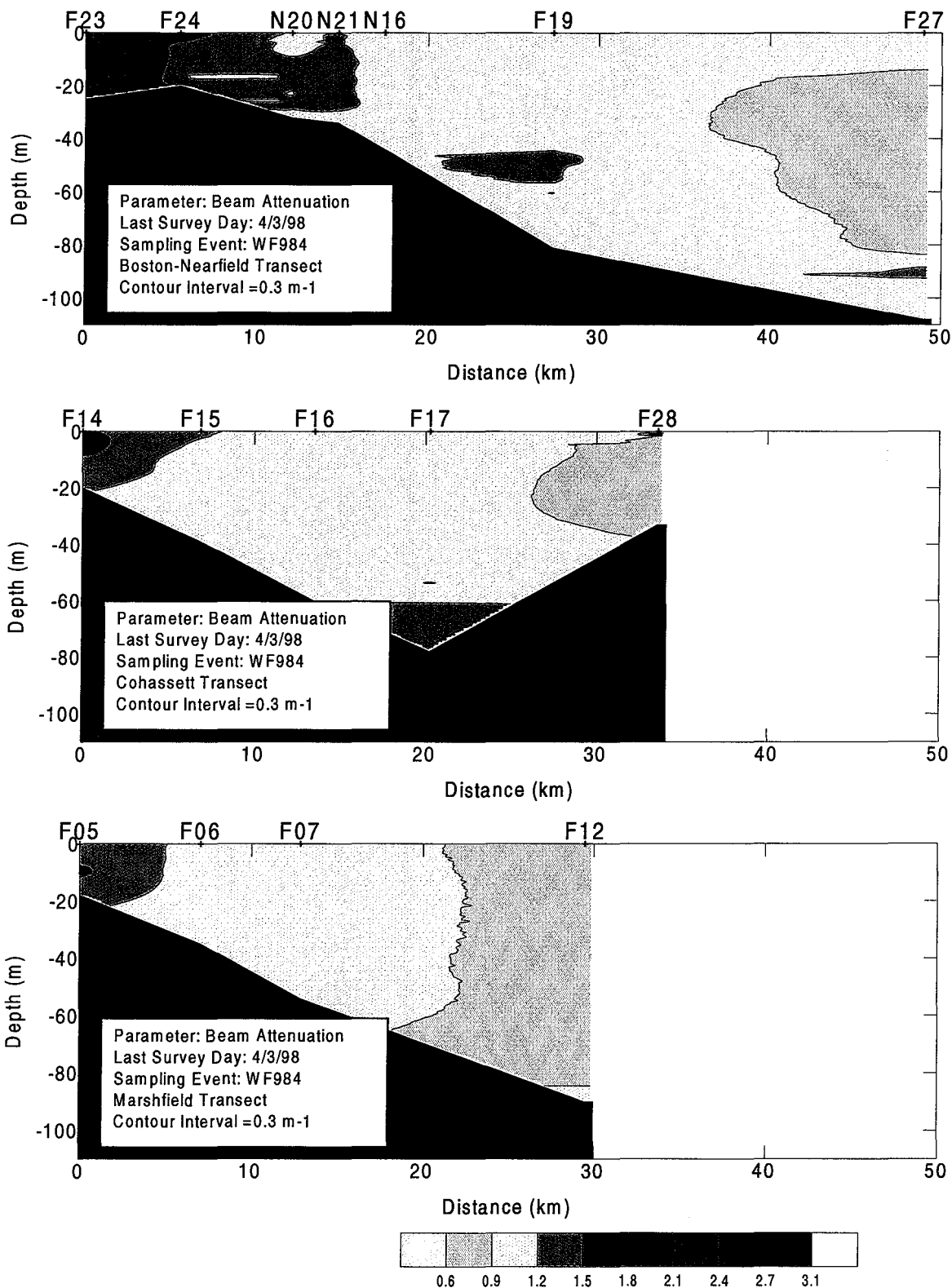


Figure C-29. Beam Attenuation Transect Plots (West - East) for Farfield Survey WF984 (Apr 98)

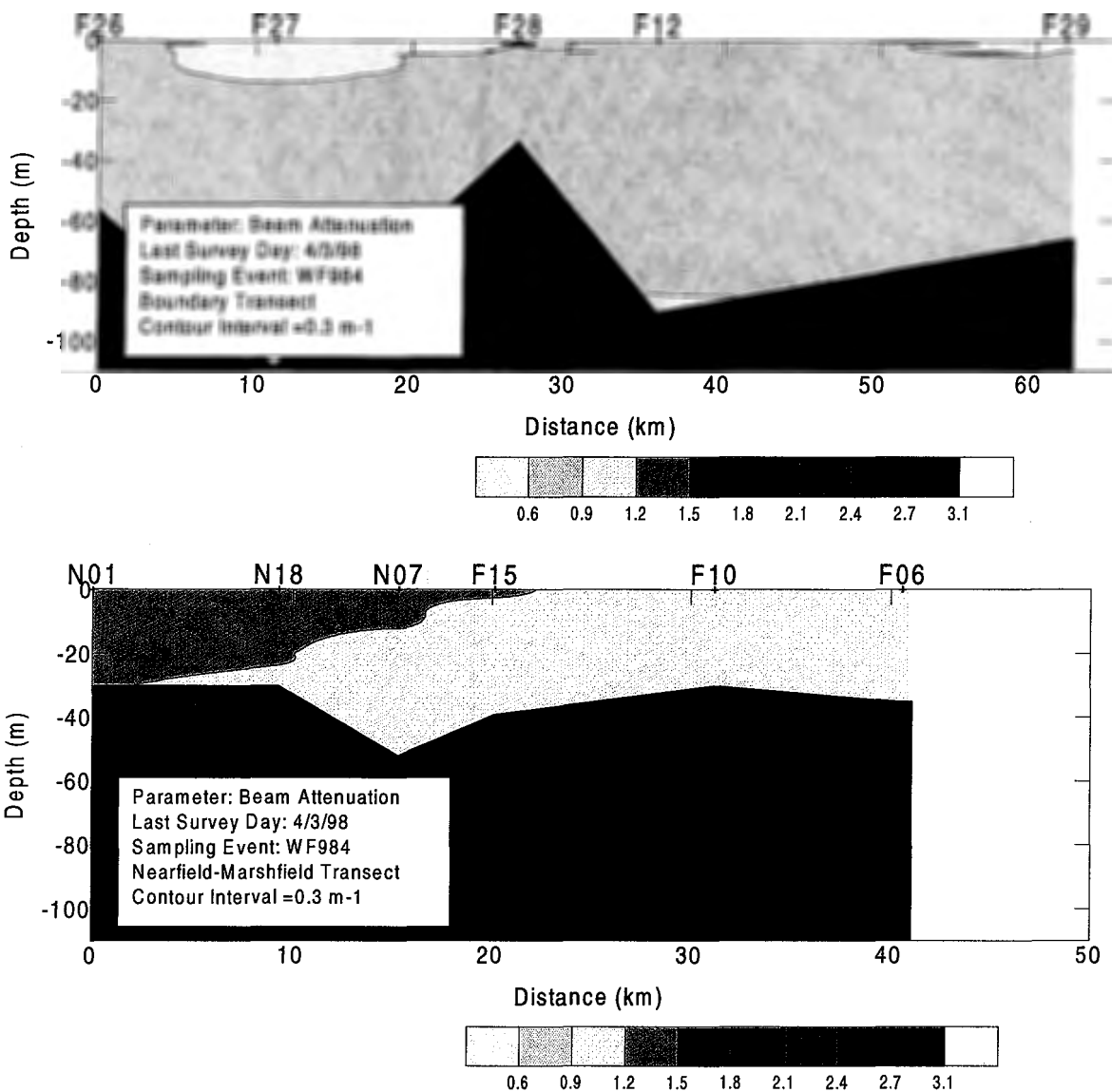


Figure C-30. Beam Attenuation Transect Plots (North - South) for Farfield Survey WF984 (Apr 98)

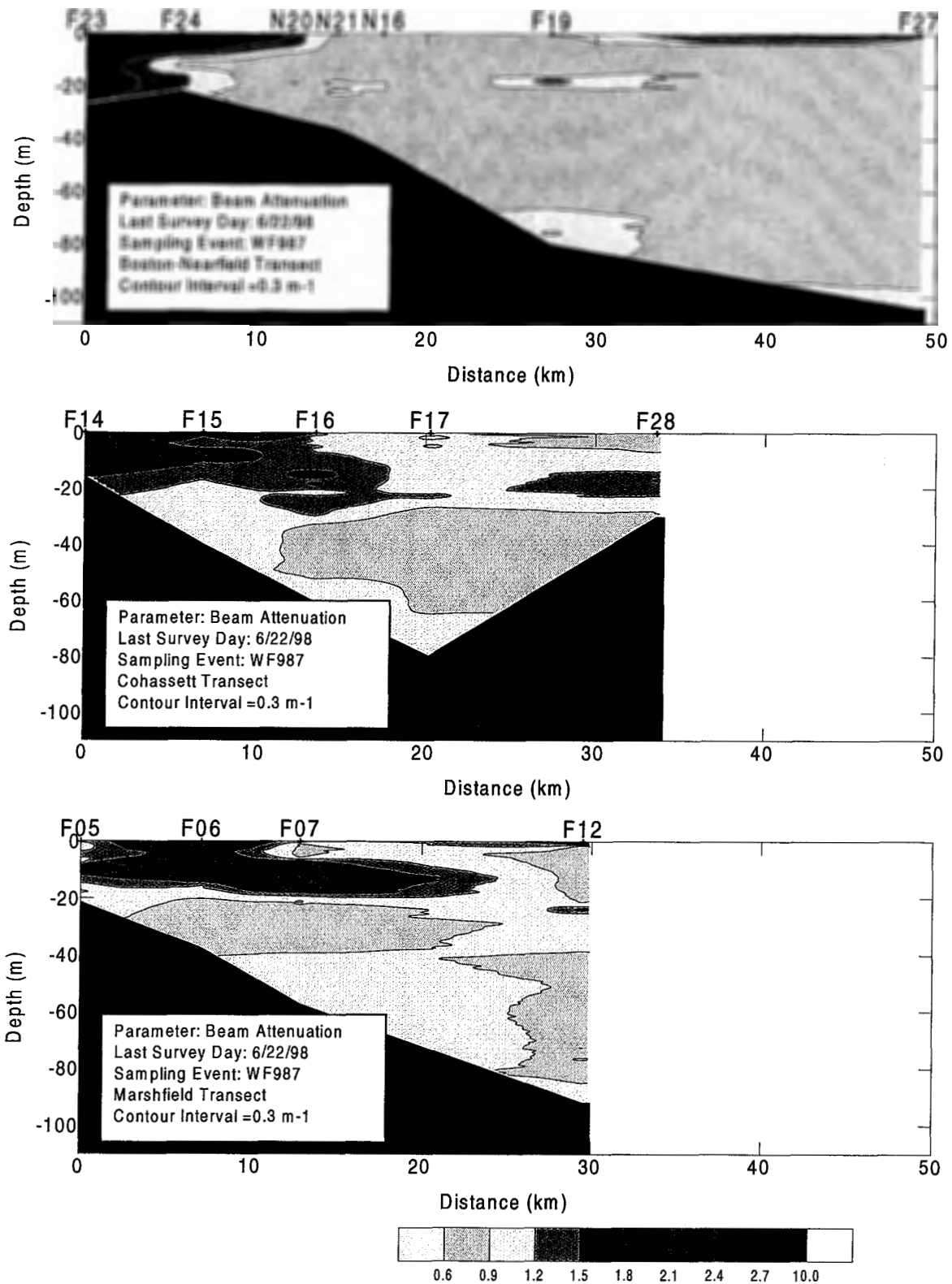


Figure C-31. Beam Attenuation Transect Plots (West - East) for Farfield Survey WF987 (Jun 98)

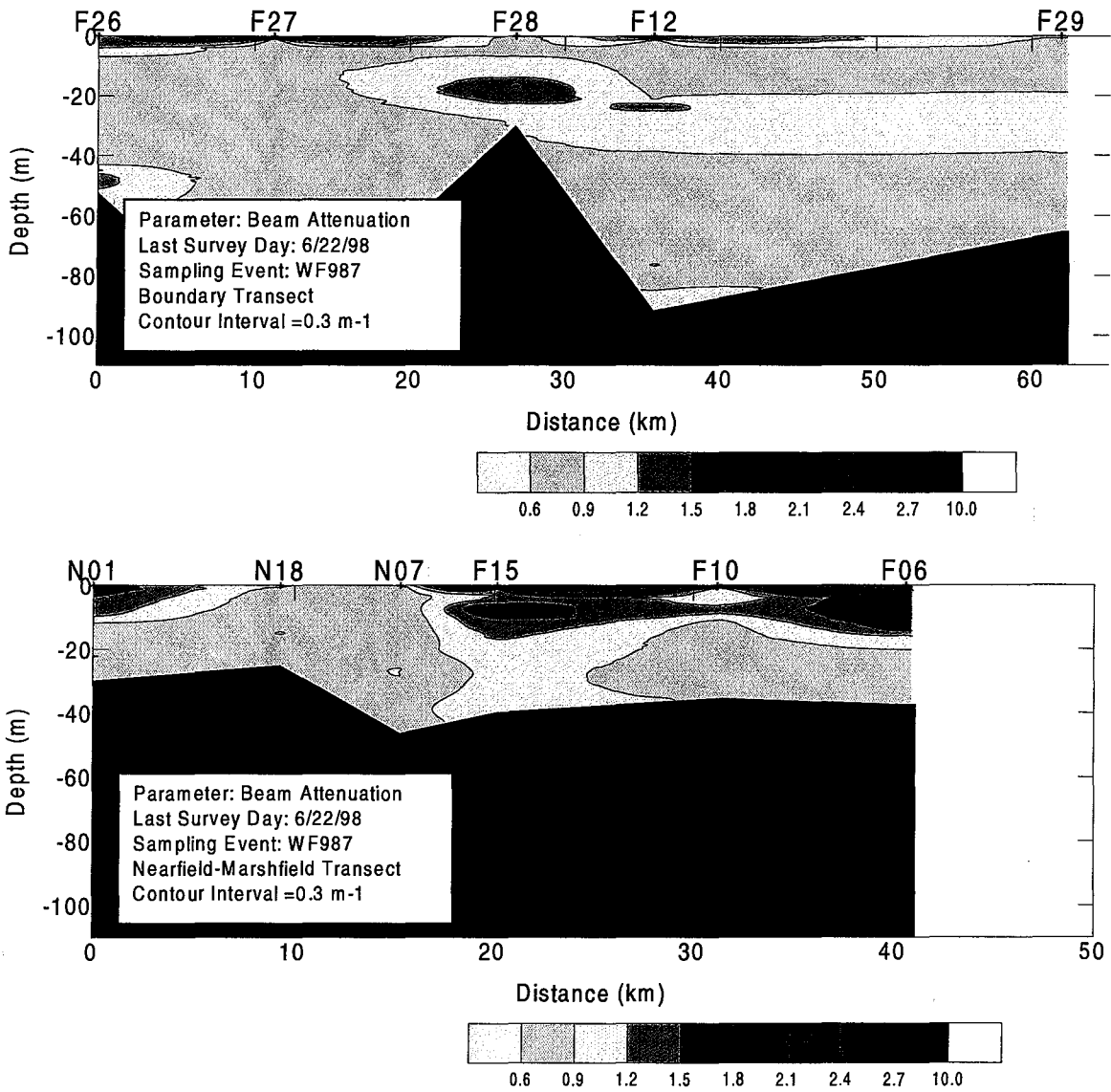


Figure C-32. Beam Attenuation Transect Plots (North - South) for Farfield Survey WF987 (Jun 98)

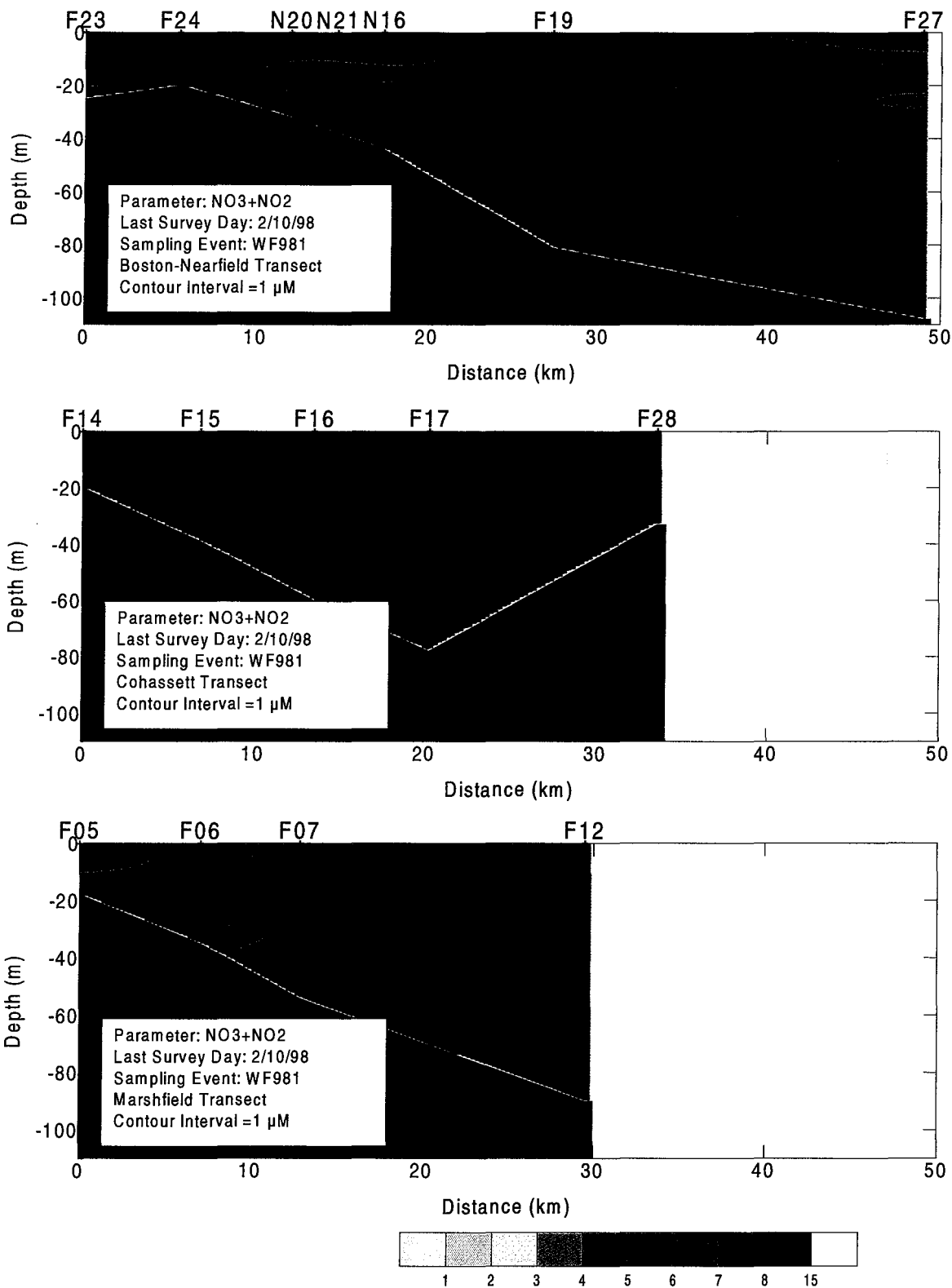
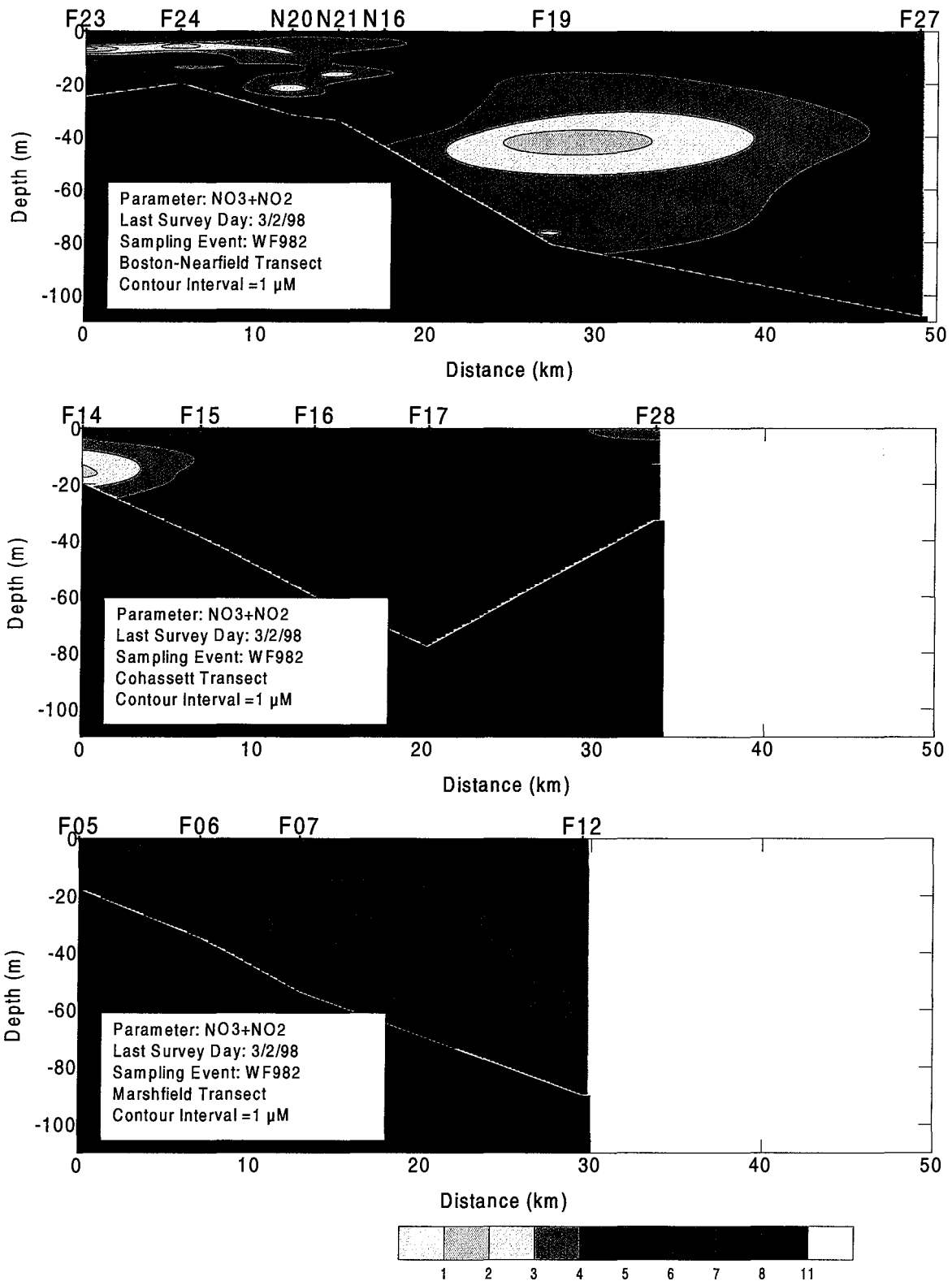


Figure C-33. Nitrate Plus Nitrite Transect Plots (West - East) for Farfield Survey WF981 (Feb 98)



**Figure C-34. Nitrate Plus Nitrite Transect Plots (West - East) for
 Earfield Survey WF982 (Feb 98)**

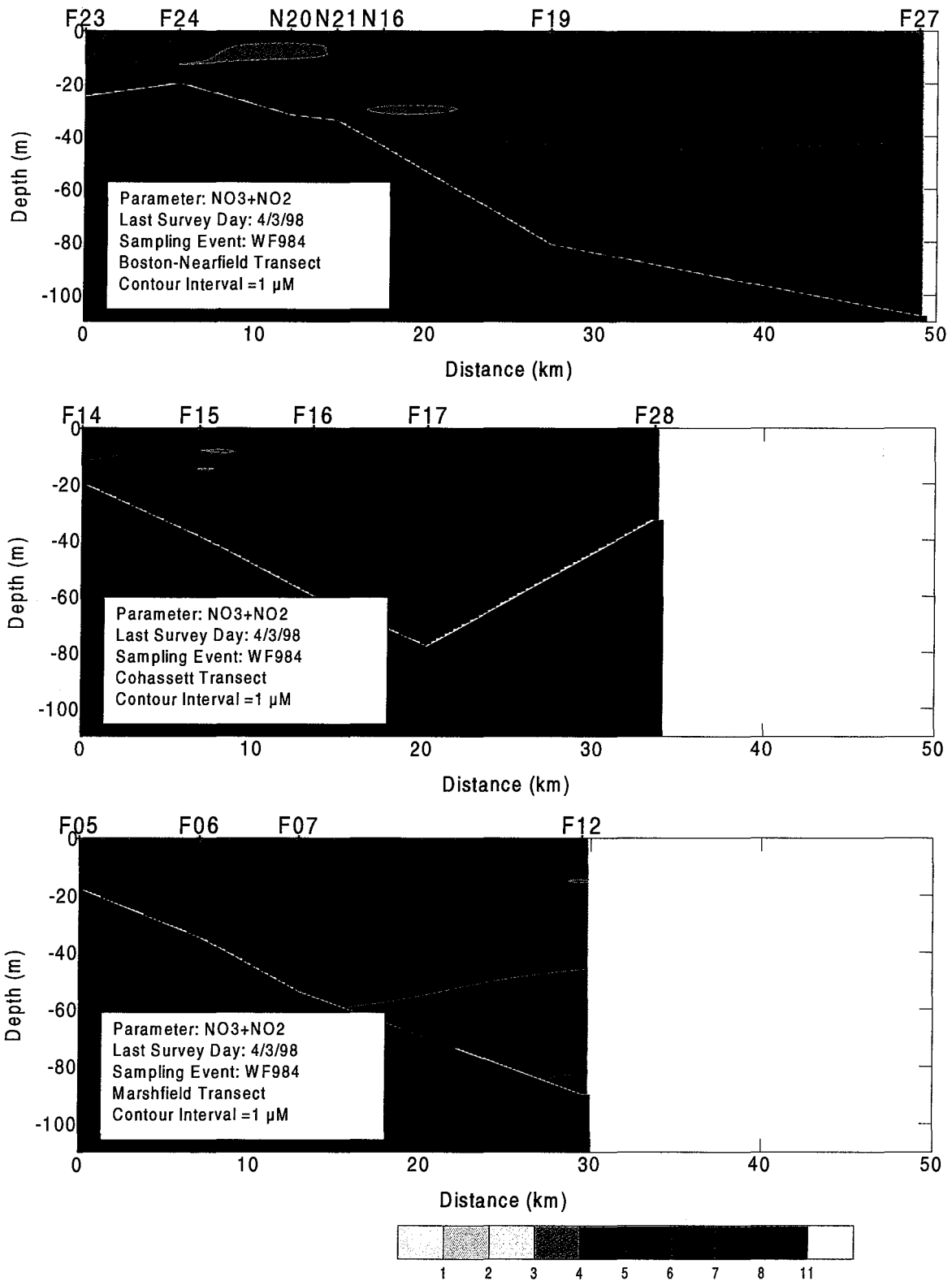


Figure C-35. Nitrate Plus Nitrite Transect Plots (West - East) for Farfield Survey WF984 (Apr 98)

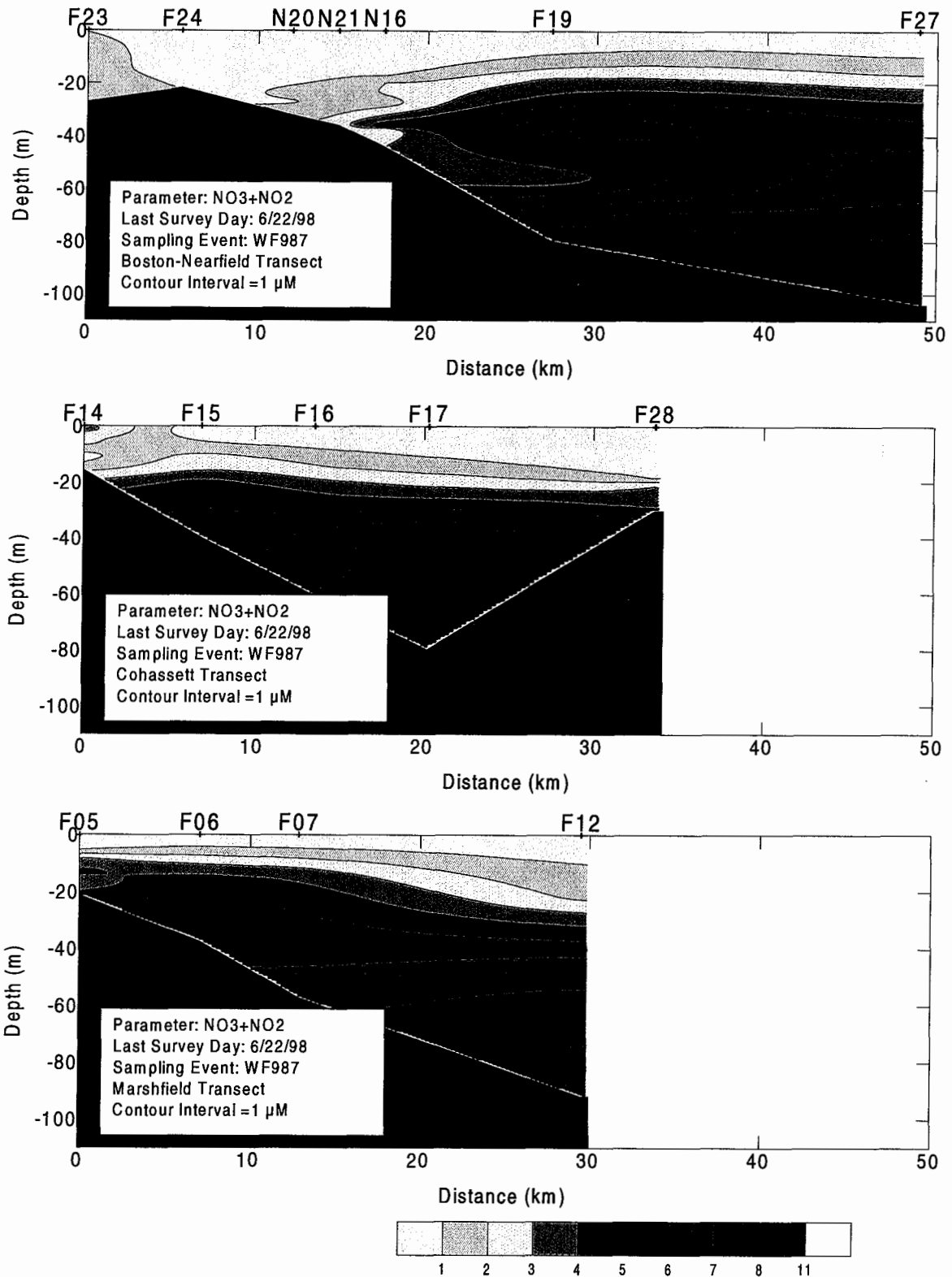


Figure C-36. Nitrate Plus Nitrite Transect Plots (West - East) for Farfield Survey WF987 (Jun 98)

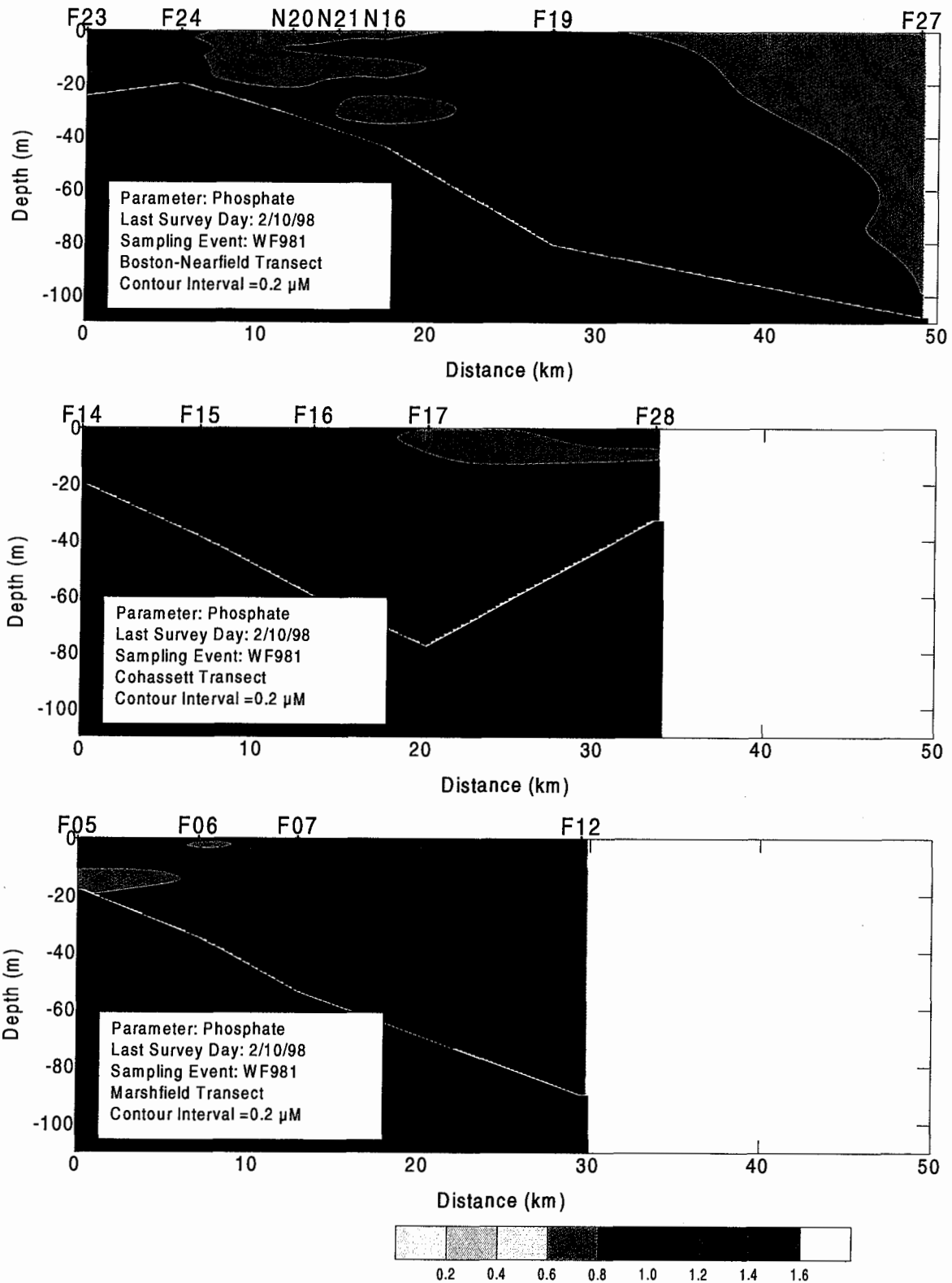


Figure C-37. Phosphate Transect Plots (West - East) for Farfield Survey WF981 (Feb 98)

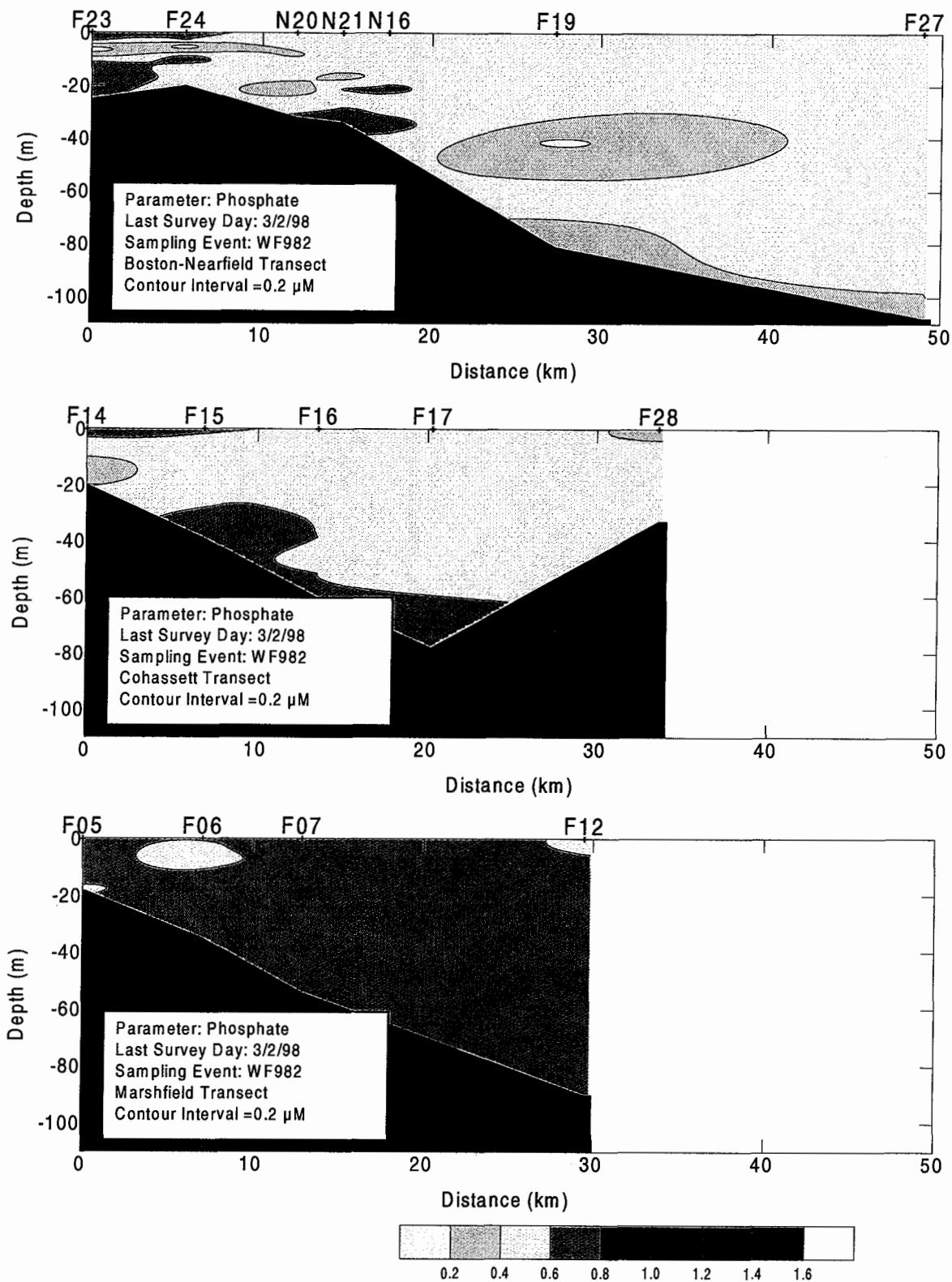


Figure C-38. Phosphate Transect Plots (West - East) for Farfield Survey WF982 (Feb 98)

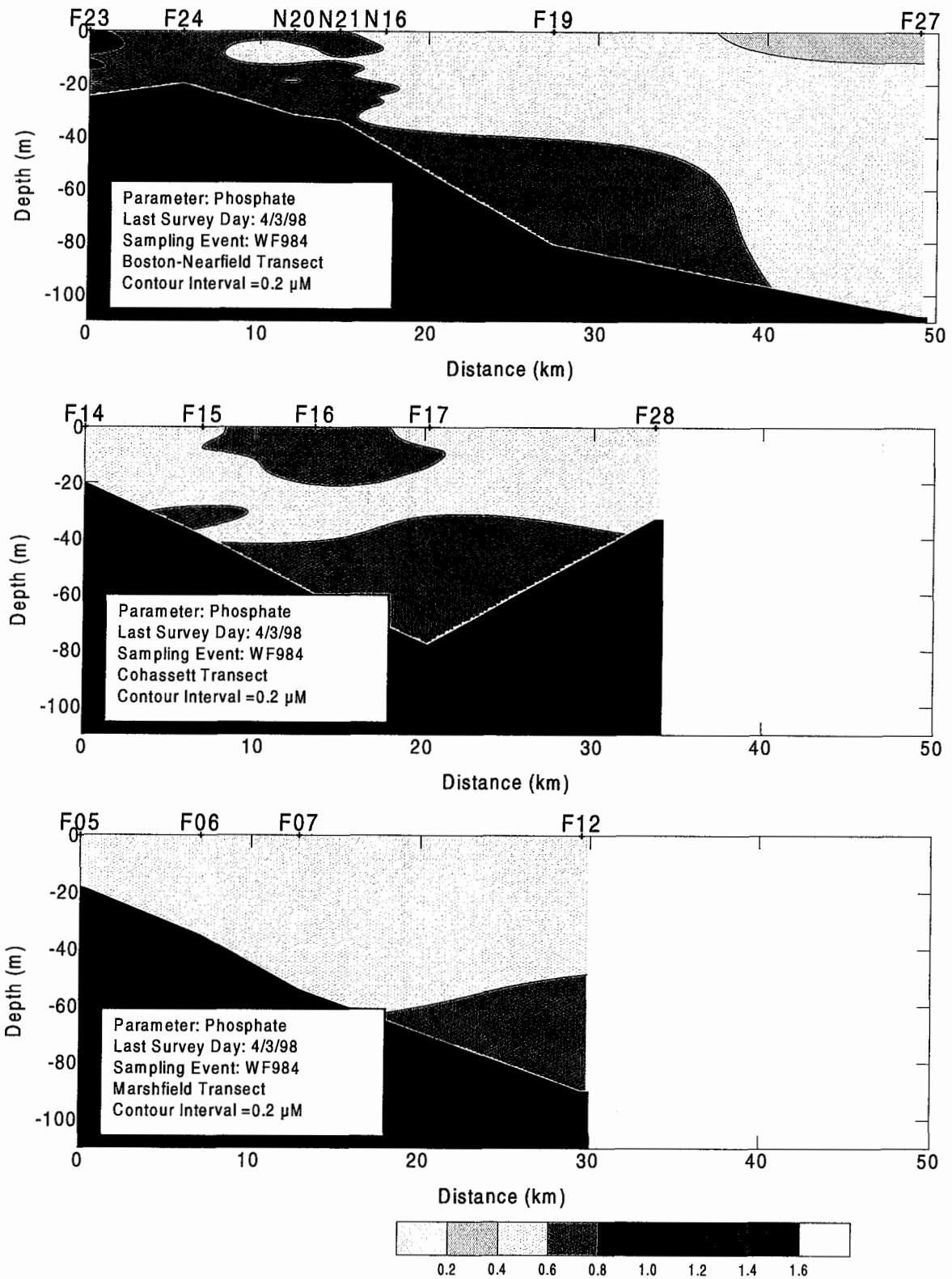


Figure C-39. Phosphate Transect Plots (West - East) for Farfield Survey WF984 (Apr 98)

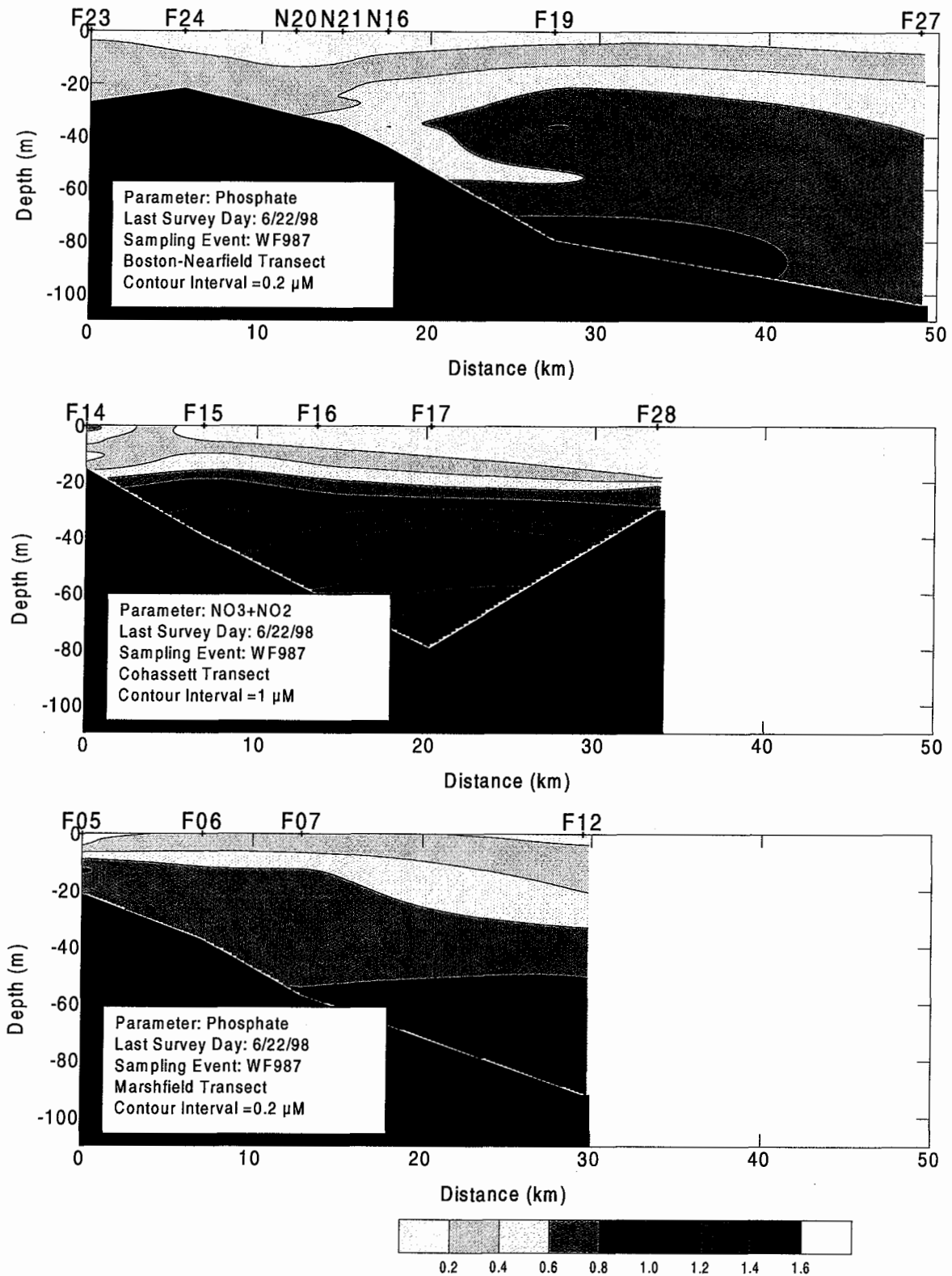


Figure C-40. Phosphate Transect Plots (West - East) for Farfield Survey WF987 (Jun 98)

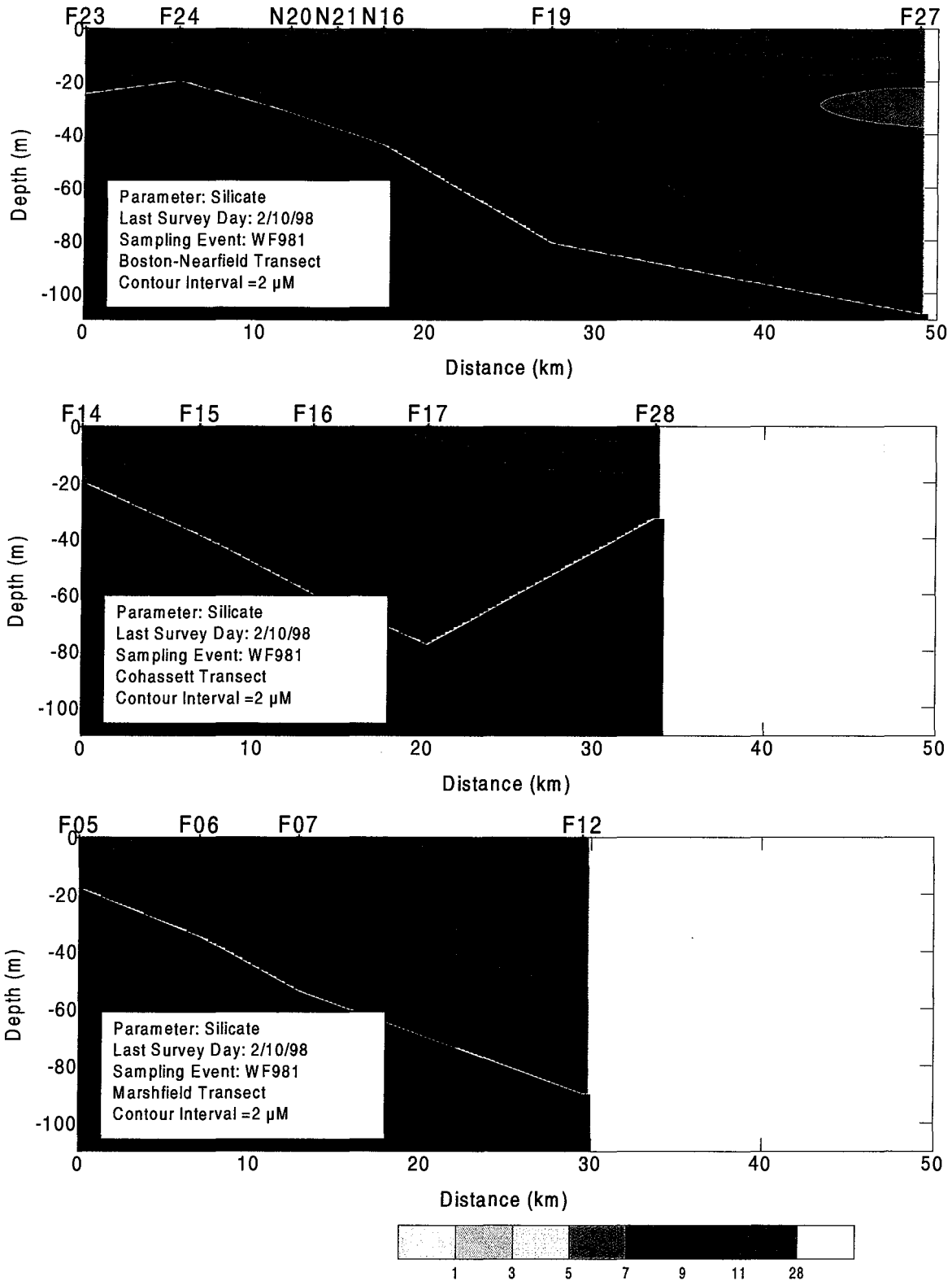


Figure C-41. Silicate Transect Plots (West - East) for Farfield Survey WF981 (Feb 98)

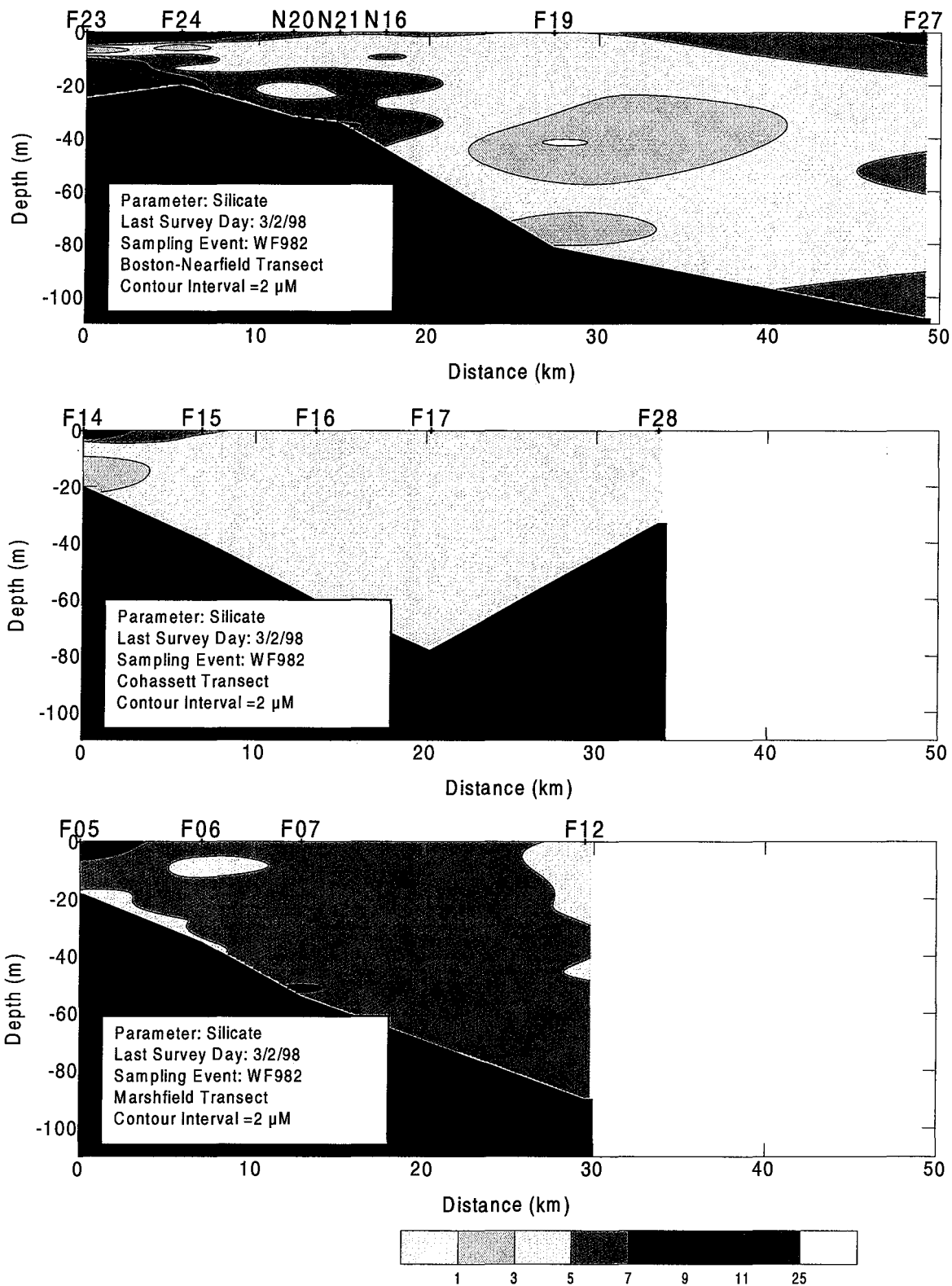


Figure C-42. Silicate Transect Plots (West - East) for Farfield Survey WF982 (Feb 98)

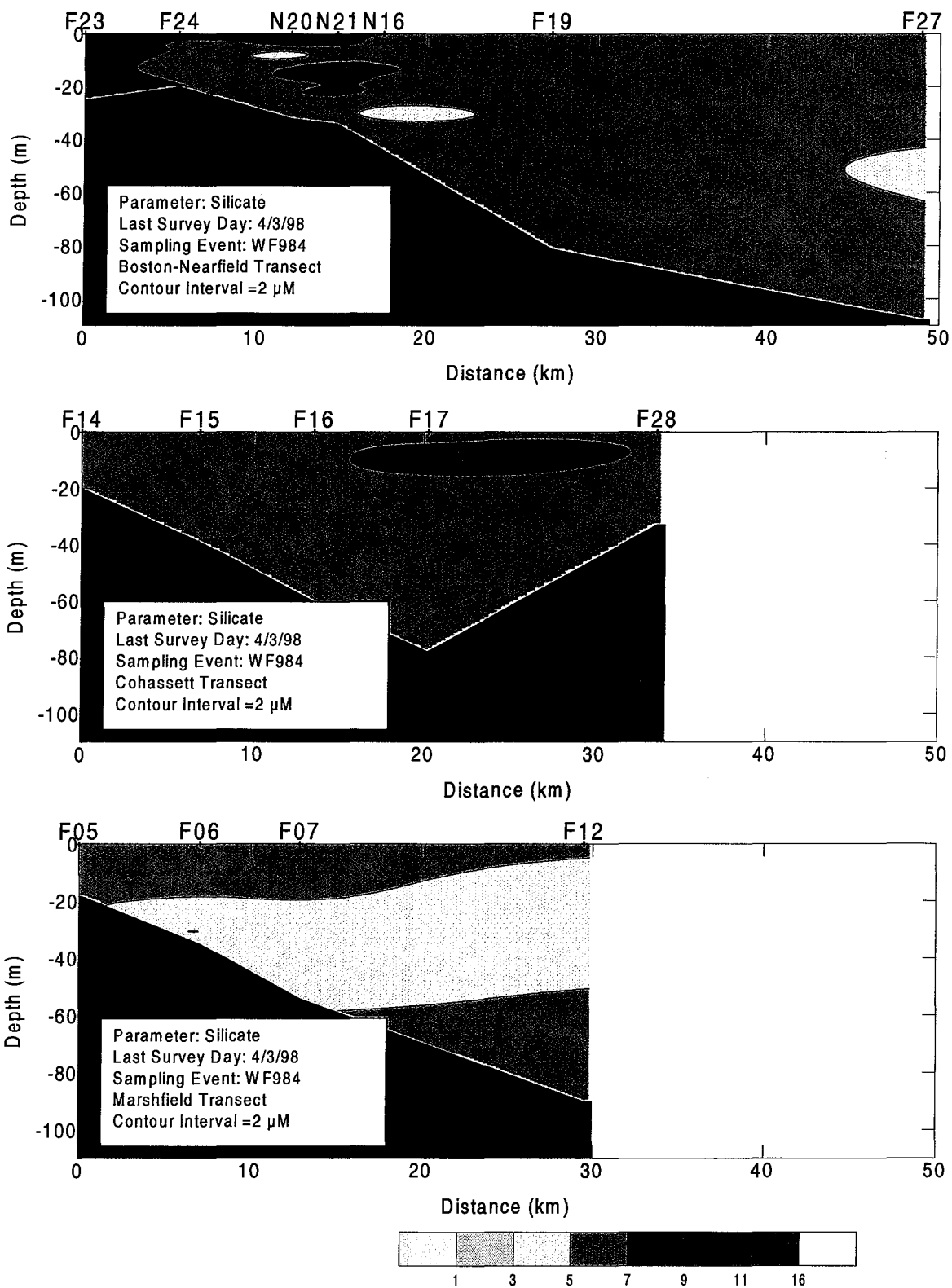


Figure C-43. Silicate Transect Plots (West - East) for Farfield Survey WF984 (Apr 98)

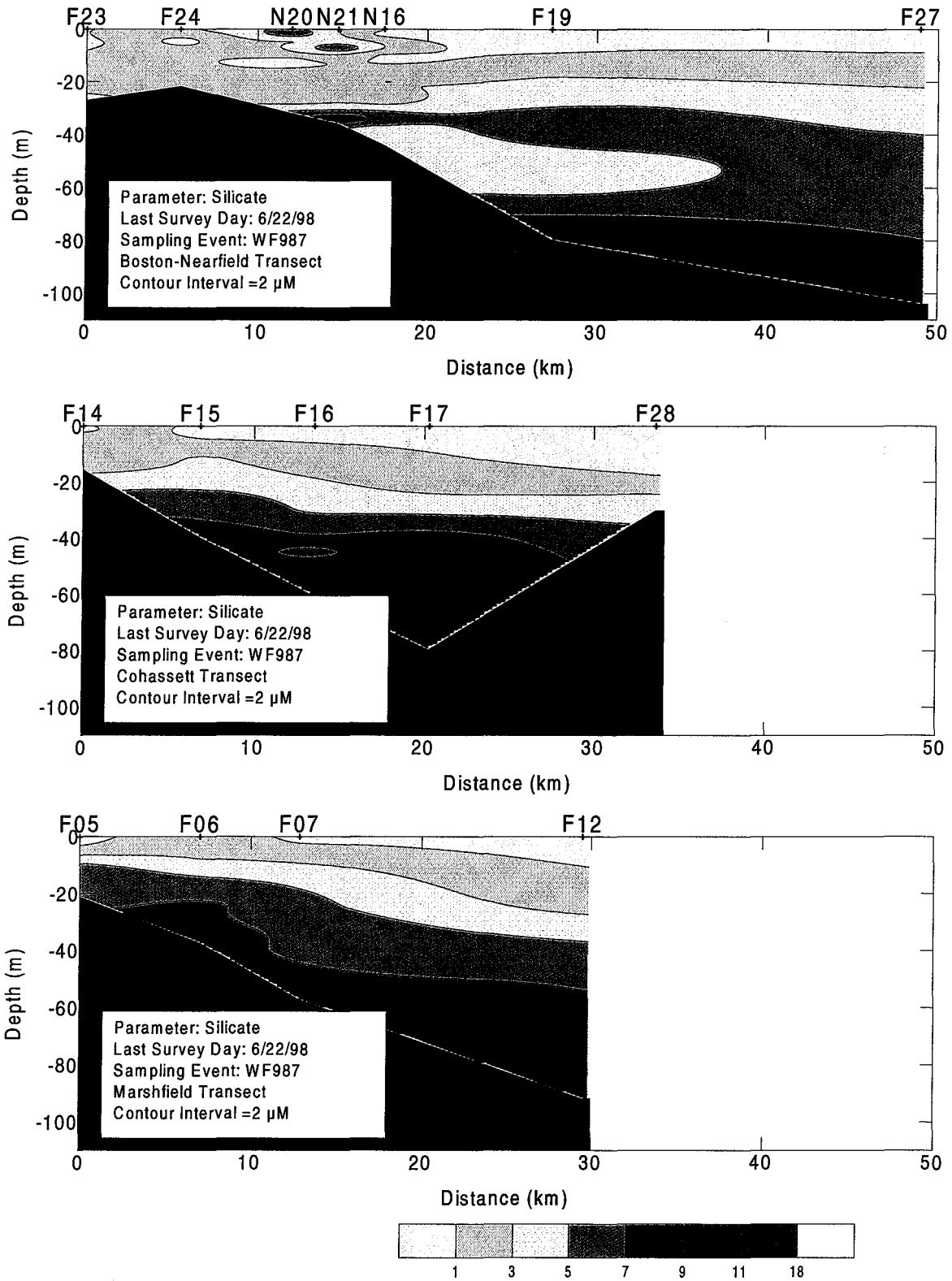


Figure C-44. Silicate Transect Plots (West - East) for Farfield Survey WF987 (Jun 98)

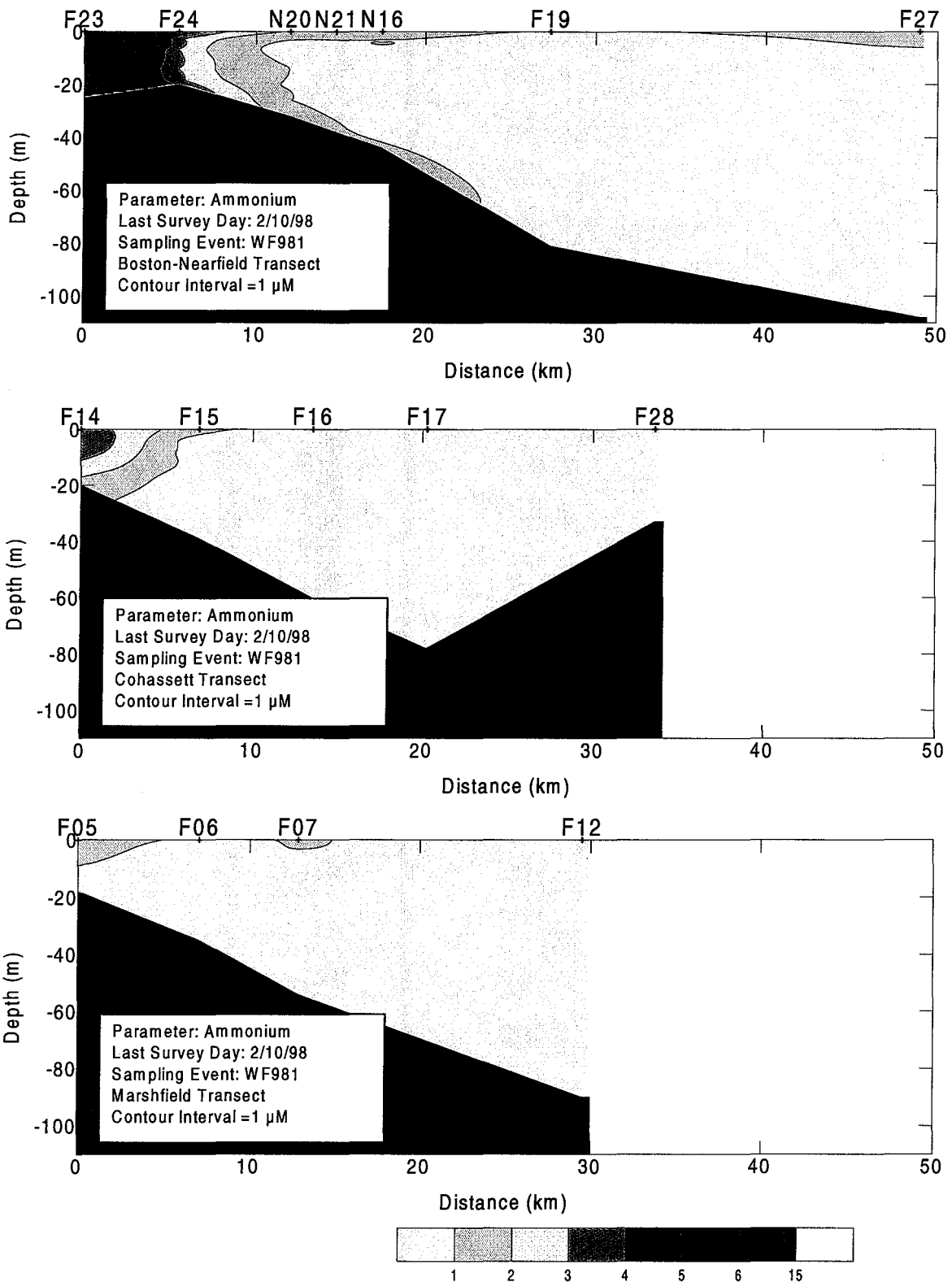


Figure C-45. Ammonium Transect Plots (West - East) for Farfield Survey WF981 (Feb 98)

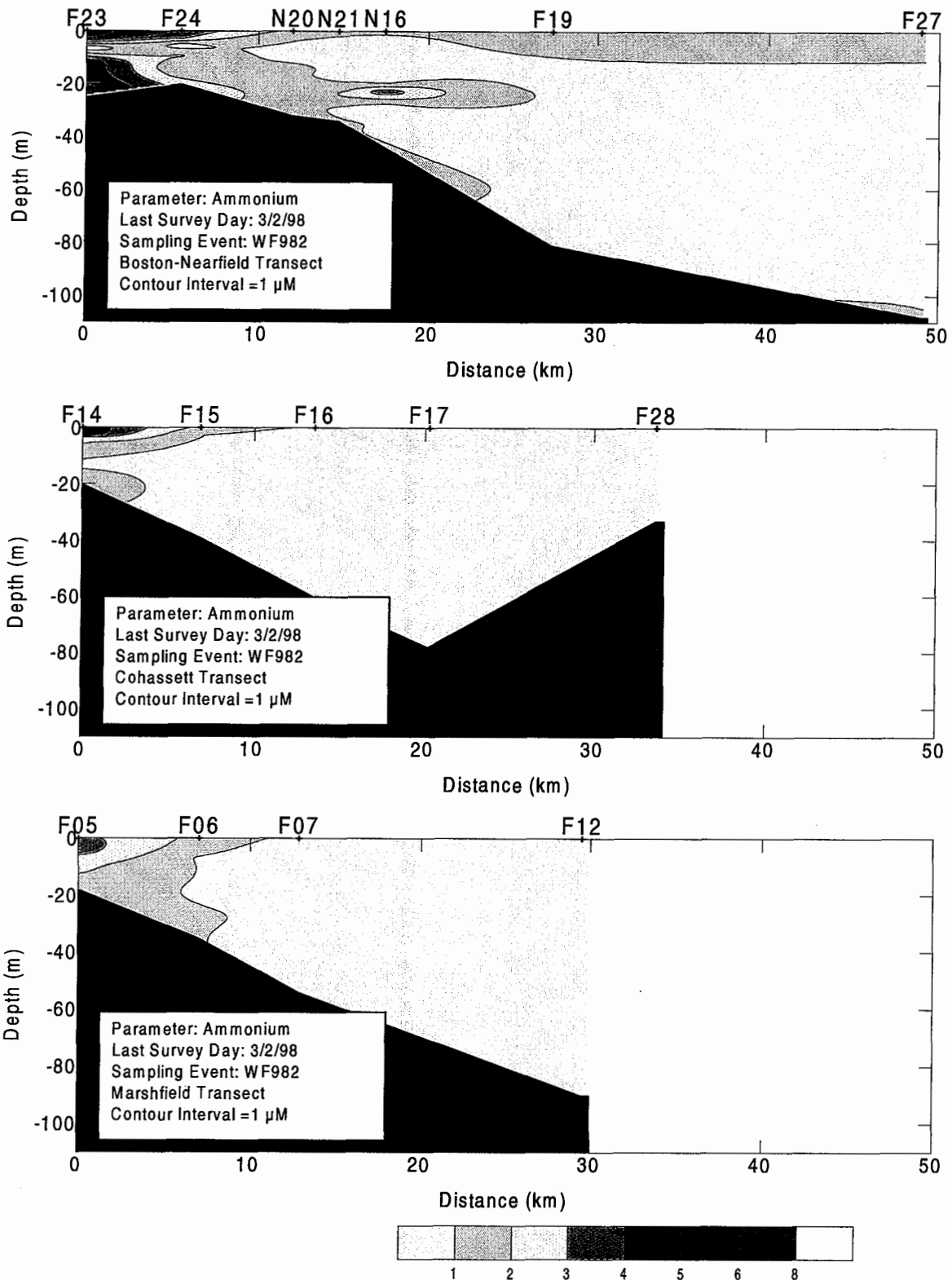


Figure C-46. Ammonium Transect Plots (West - East) for Farfield Survey WF982 (Feb 98)

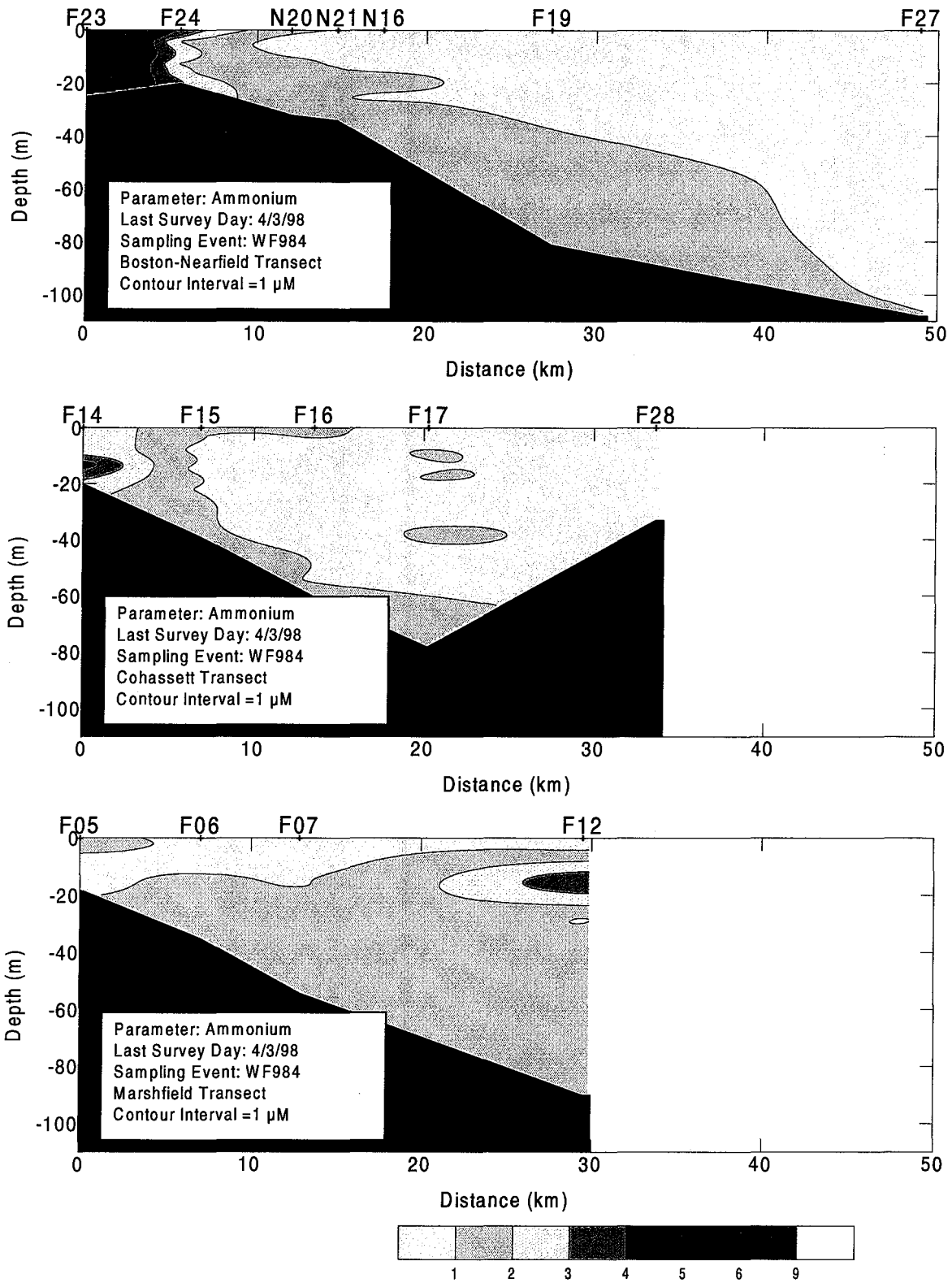


Figure C-47. Ammonium Transect Plots (West - East) for Farfield Survey WF984 (Apr 98)

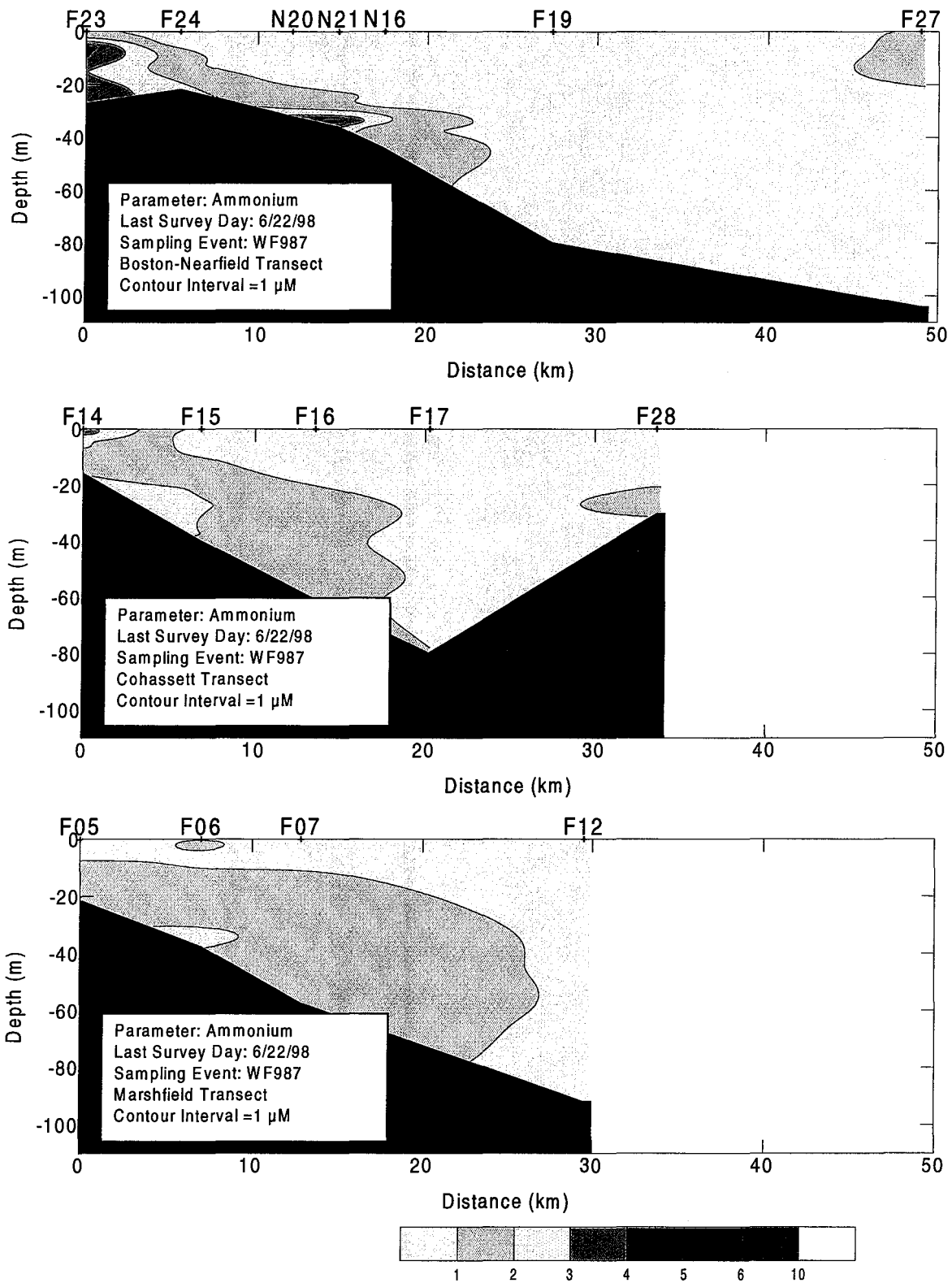


Figure C-48. Ammonium Transect Plots (West - East) for Farfield Survey WF987 (Jun 98)

No plots are available for farfield survey WF981 due to equipment failure.

Figure C-49. Fluorescence Transect Plots for Farfield Survey WF981 (Feb 98)

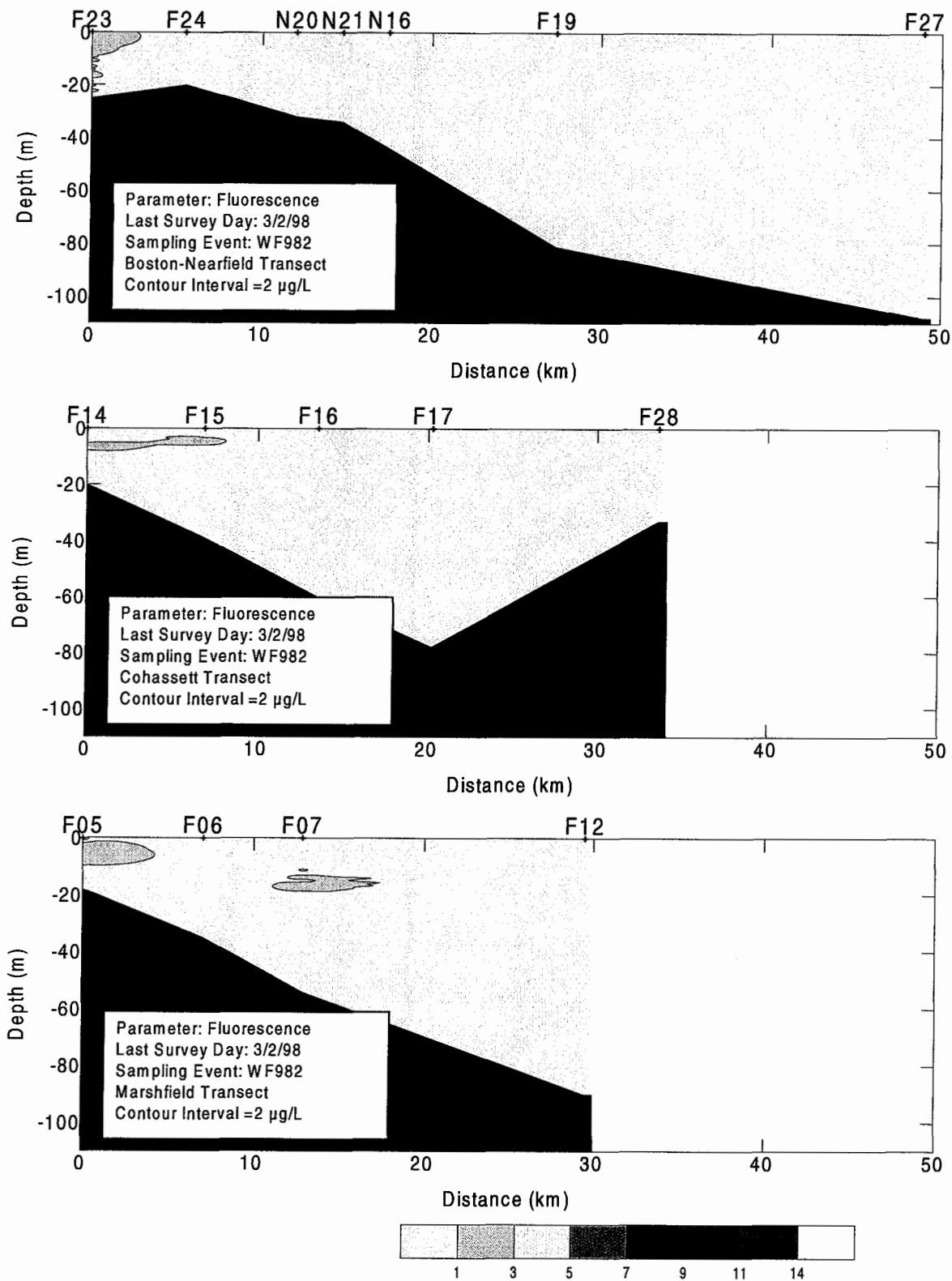


Figure C-50. Fluorescence Transect Plots (West - East) for Farfield Survey WF982 (Feb 98)

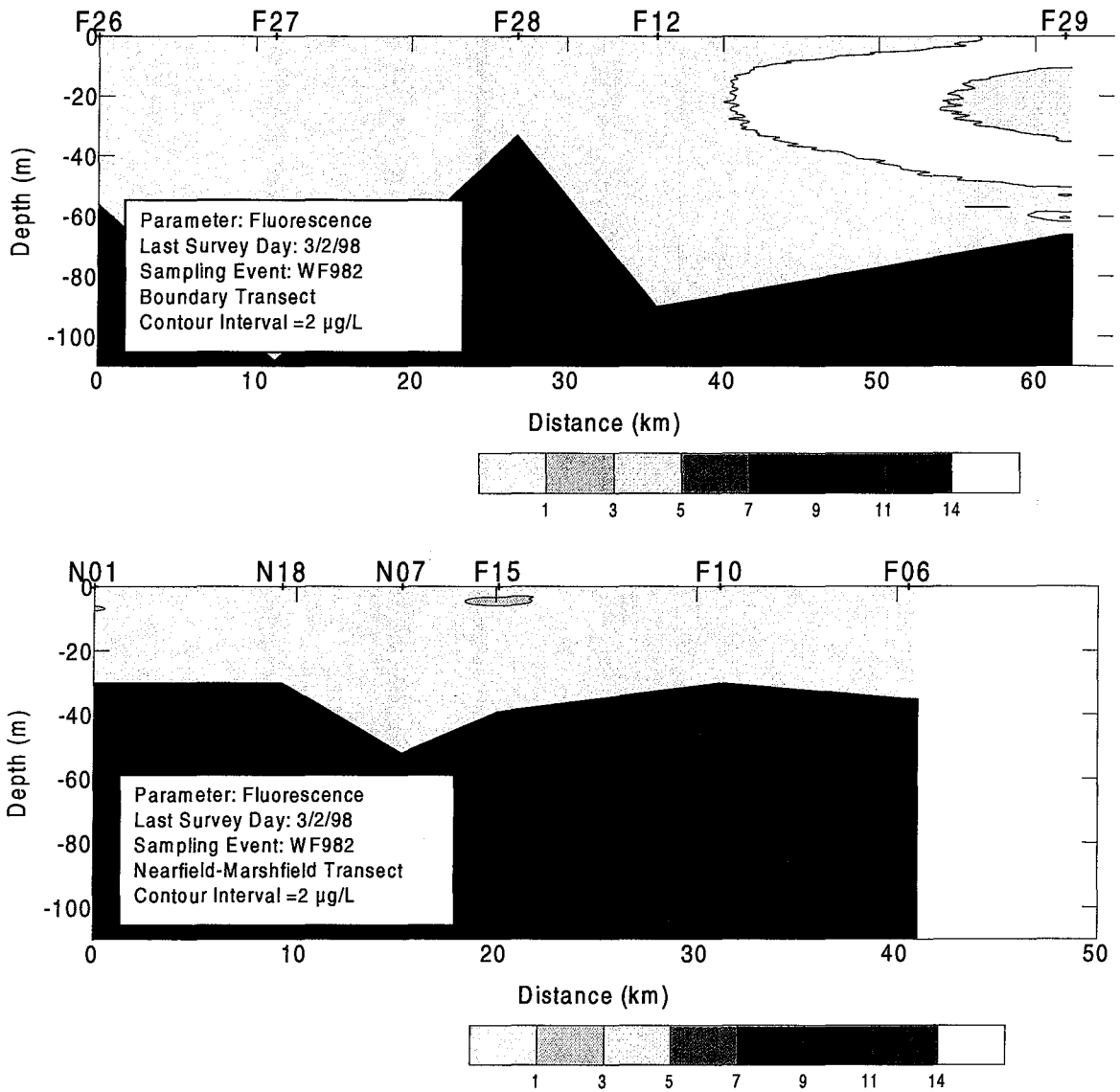


Figure C-51. Fluorescence Transect Plots (North - South) for Farfield Survey WF982 (Feb 98)

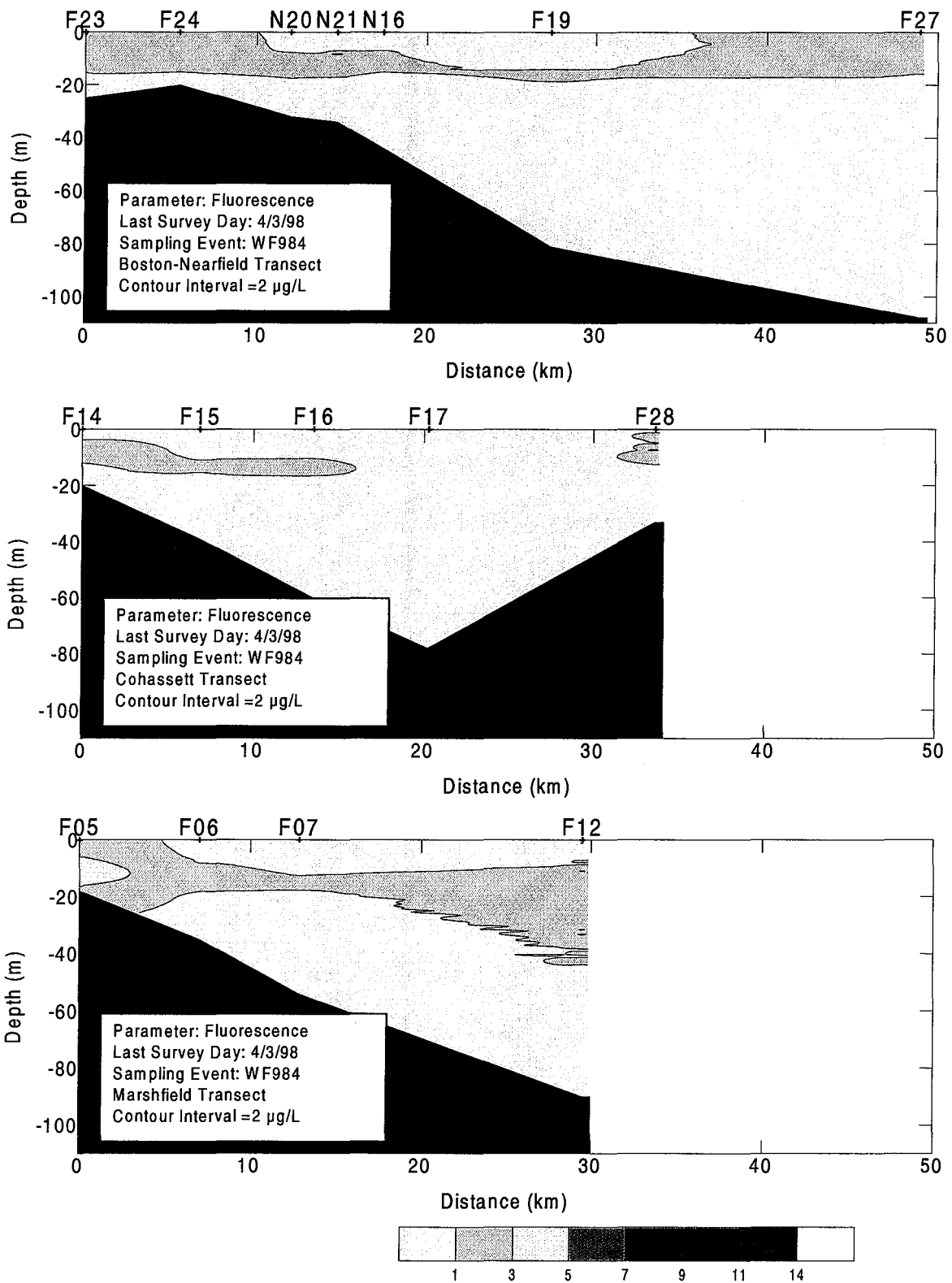


Figure C-52. Fluorescence Transect Plots (West - East) for Farfield Survey WF984 (Apr 98)

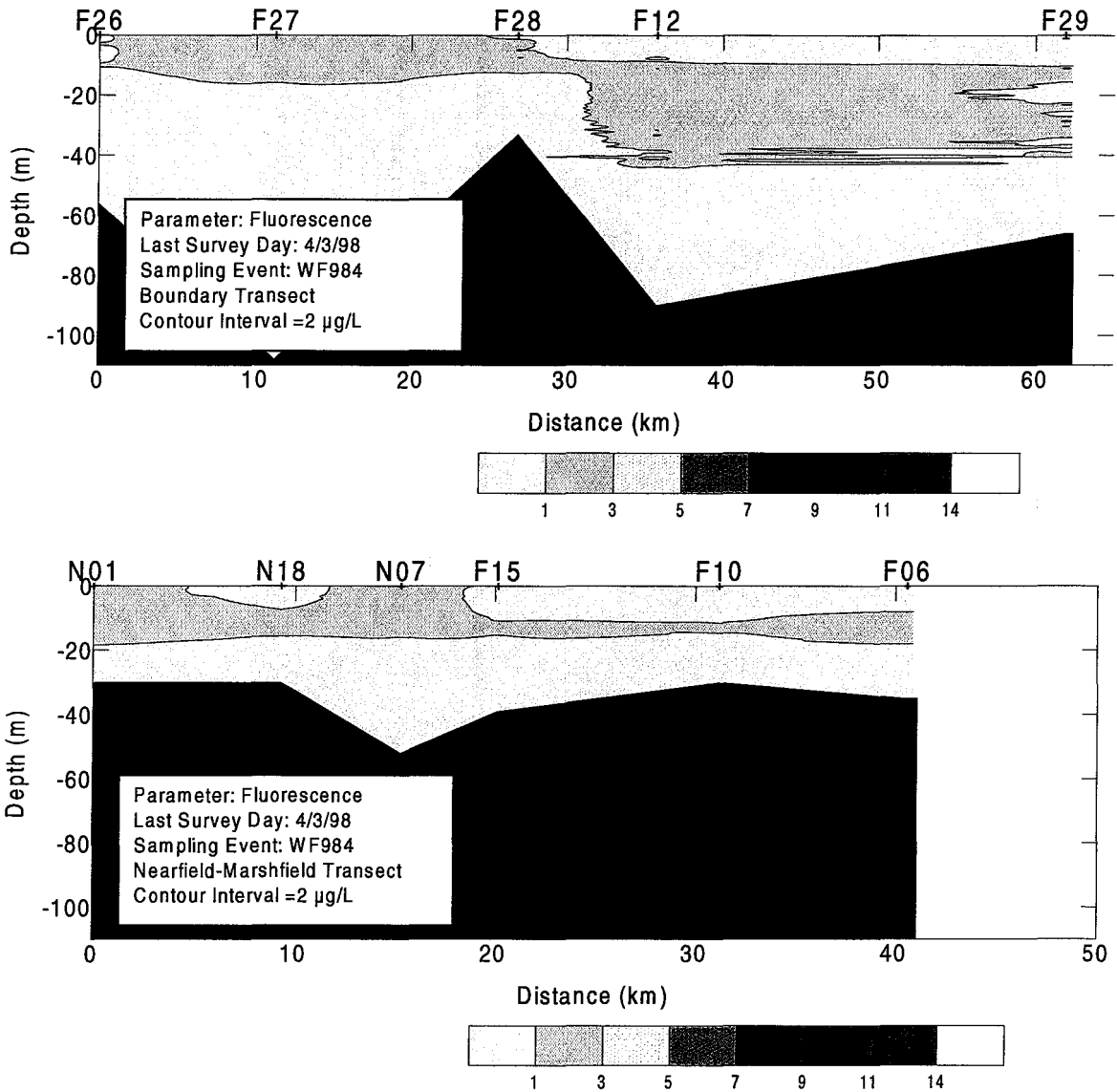


Figure C-53. Fluorescence Transect Plots (North - South) for Farfield Survey WF984 (Apr 98)

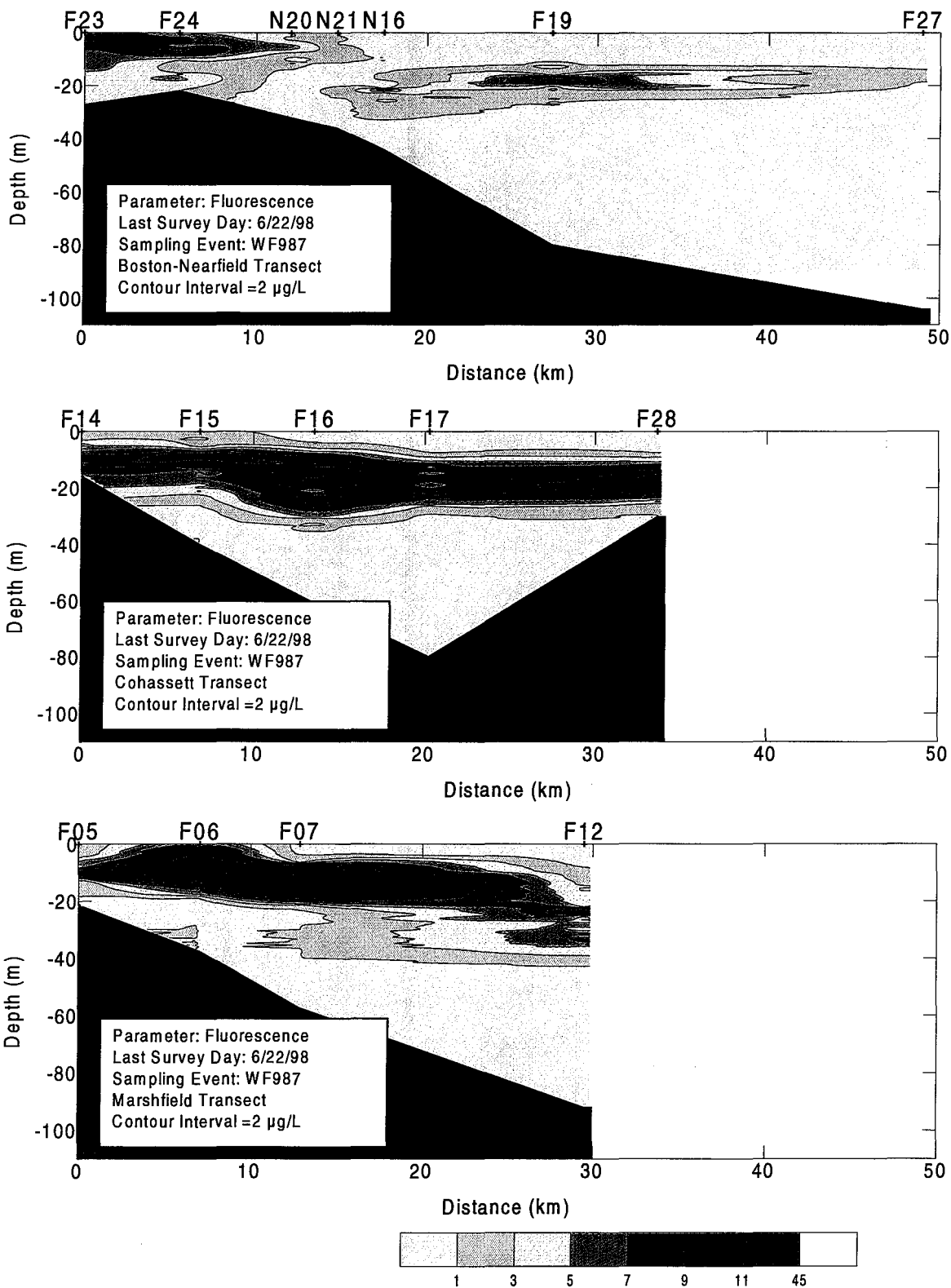


Figure C-54. Fluorescence Transect Plots (West - East) for Farfield Survey WF987 (Jun 98)

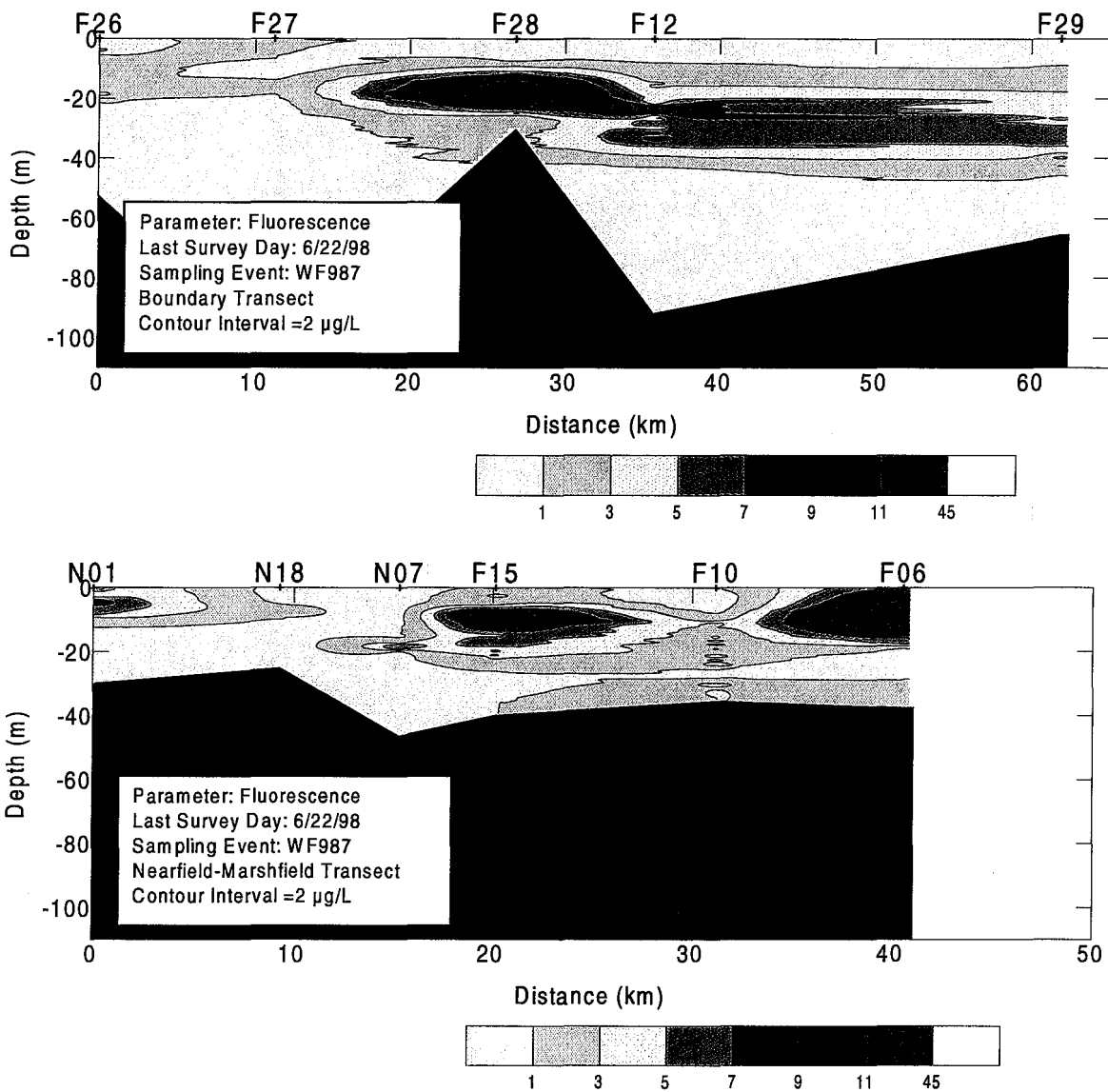


Figure C-55. Fluorescence Transect Plots (North - South) for Farfield Survey WF987 (Jun 98)

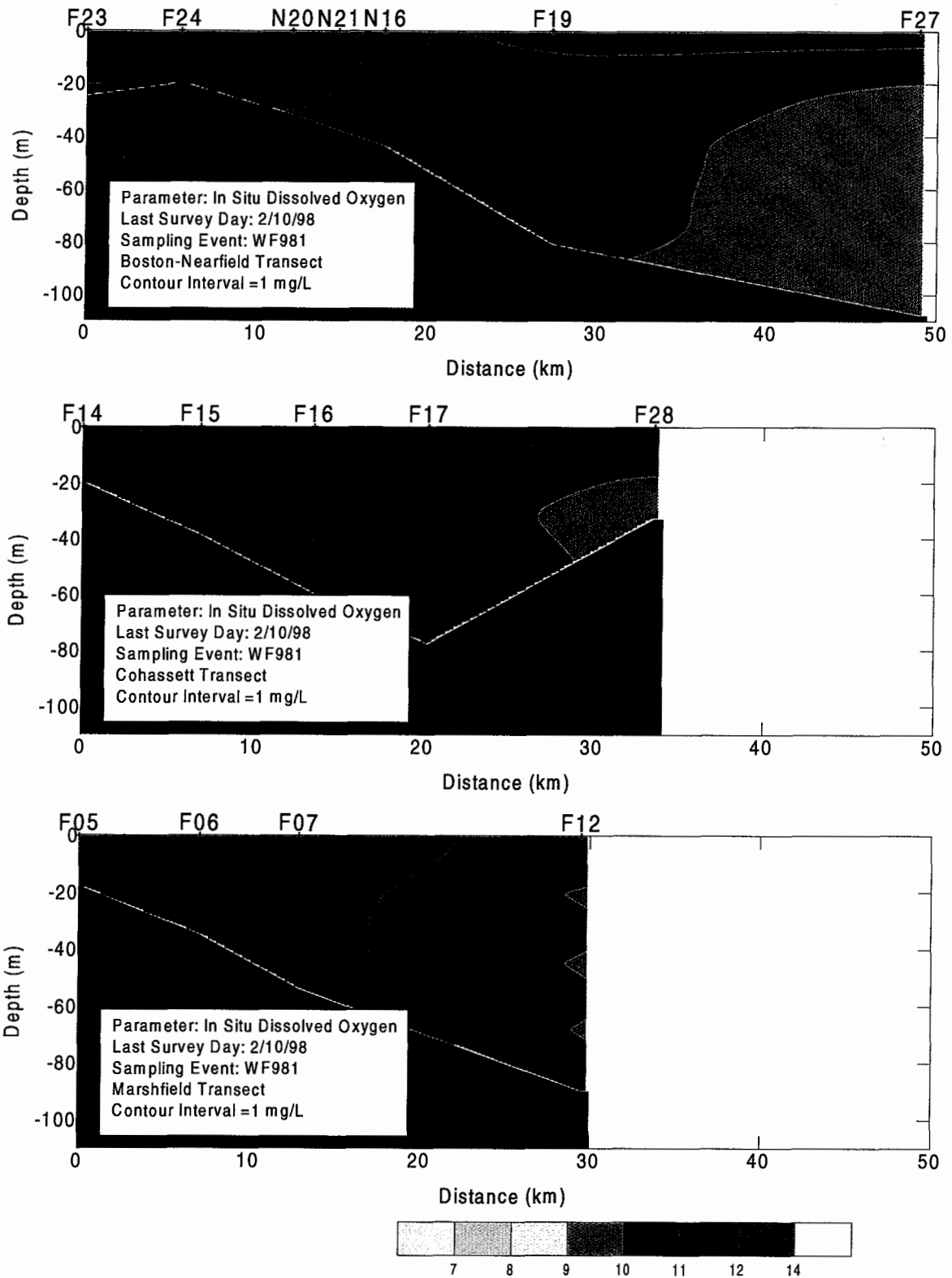


Figure C-56. Dissolved Oxygen Transect Plots (West - East) for Farfield Survey WF981 (Feb 98)

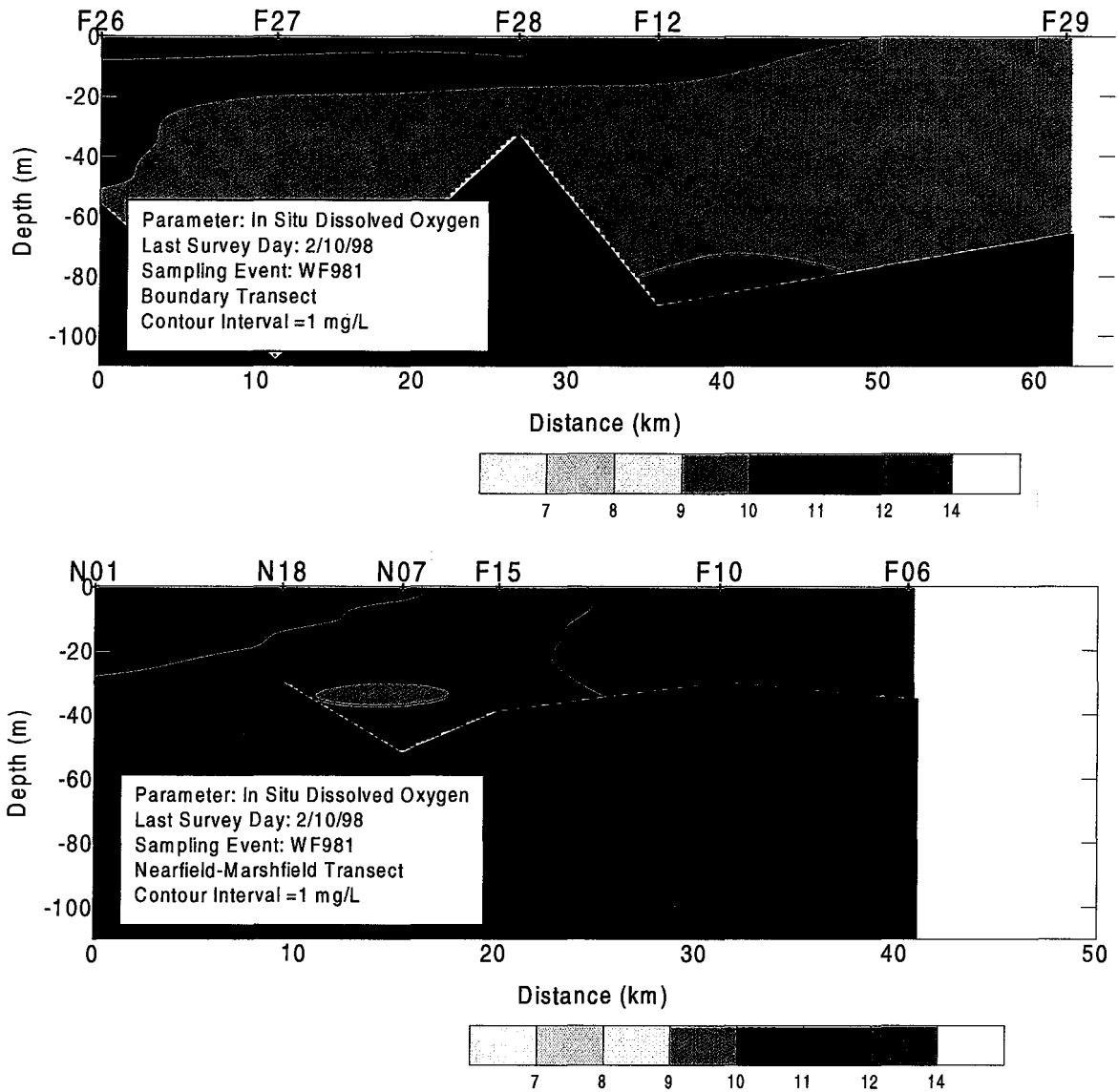


Figure C-57. Dissolved Oxygen Transect Plots (North - South) for Farfield Survey WF981 (Feb 98)

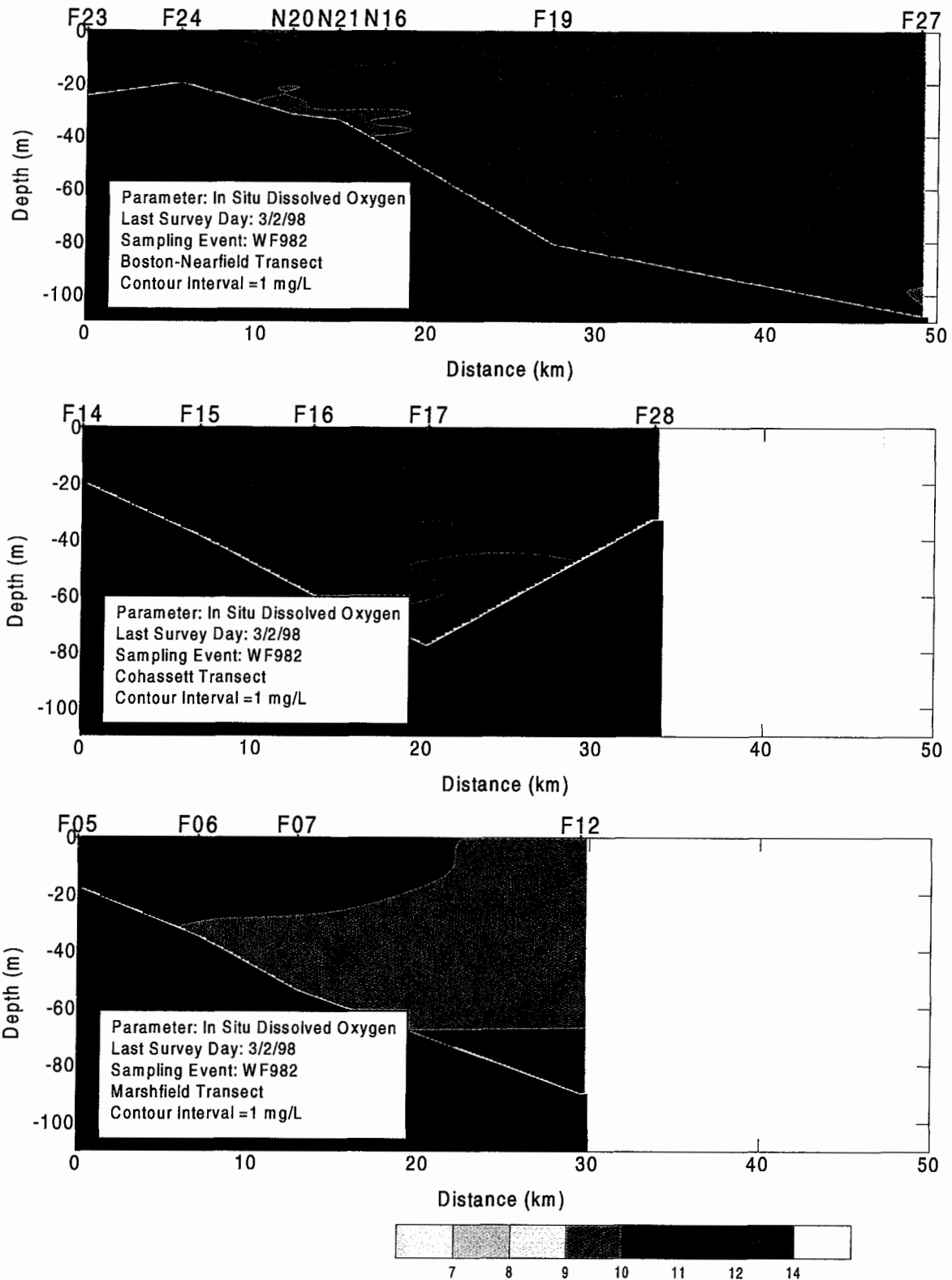


Figure C-58. Dissolved Oxygen Transect Plots (West - East) for Farfield Survey WF982 (Feb 98)

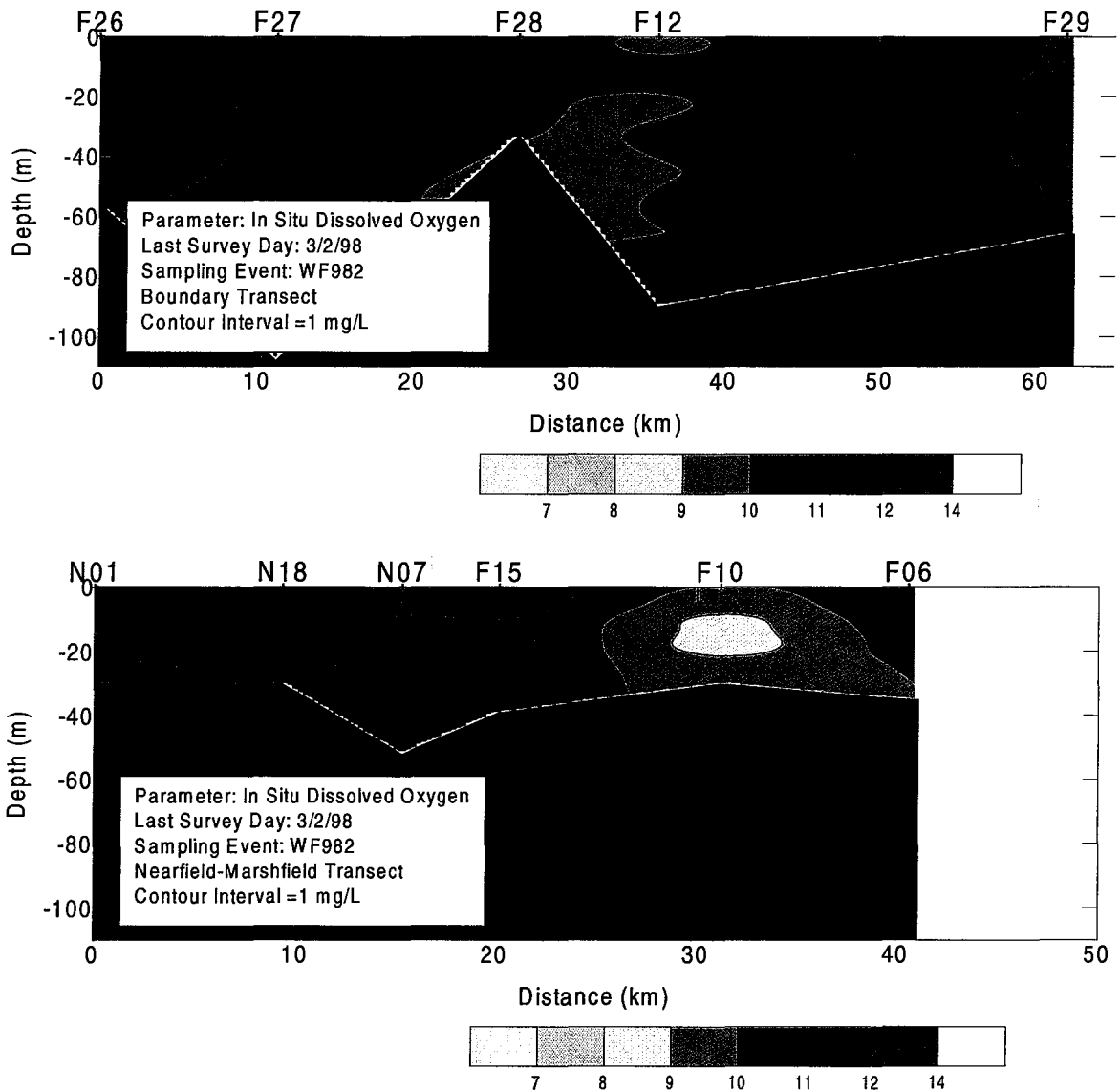


Figure C-59. Dissolved Oxygen Transect Plots (North - South) for Farfield Survey WF982 (Feb 98)

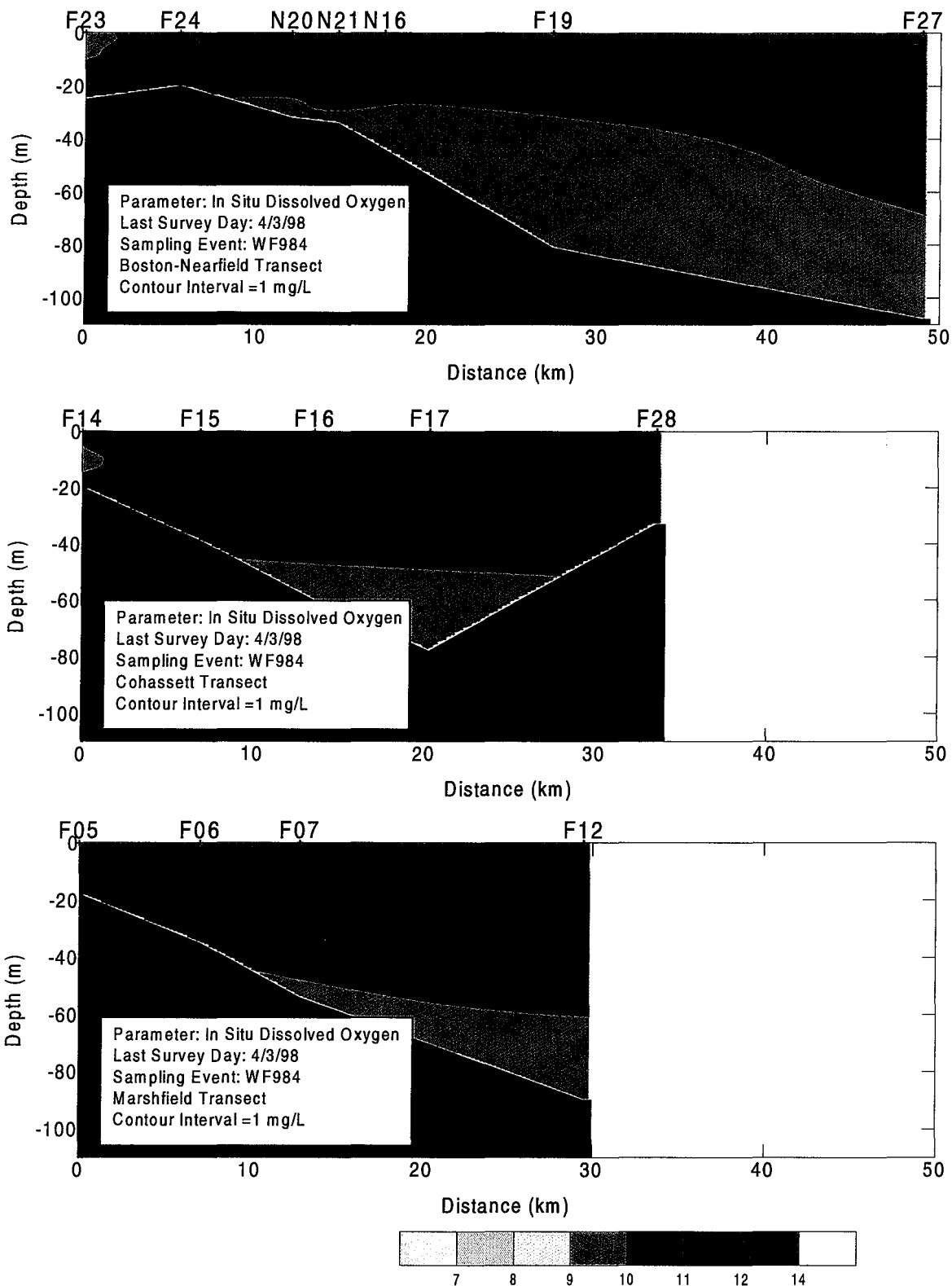


Figure C-60. Dissolved Oxygen Transect Plots (West - East) for Farfield Survey WF984 (Apr 98)

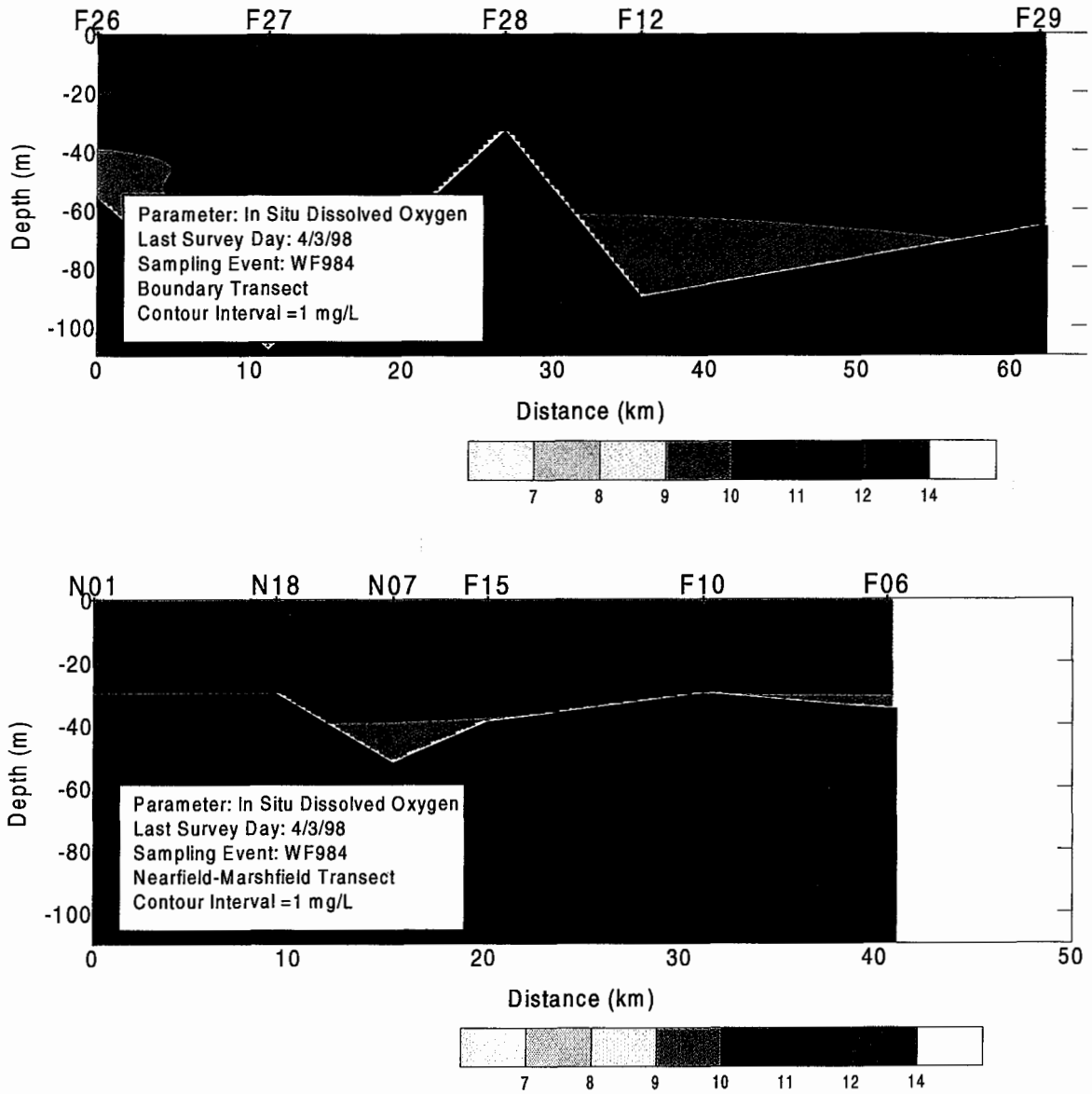


Figure C-61. Dissolved Oxygen Transect Plots (North - South) for Farfield Survey WF984 (Apr 98)

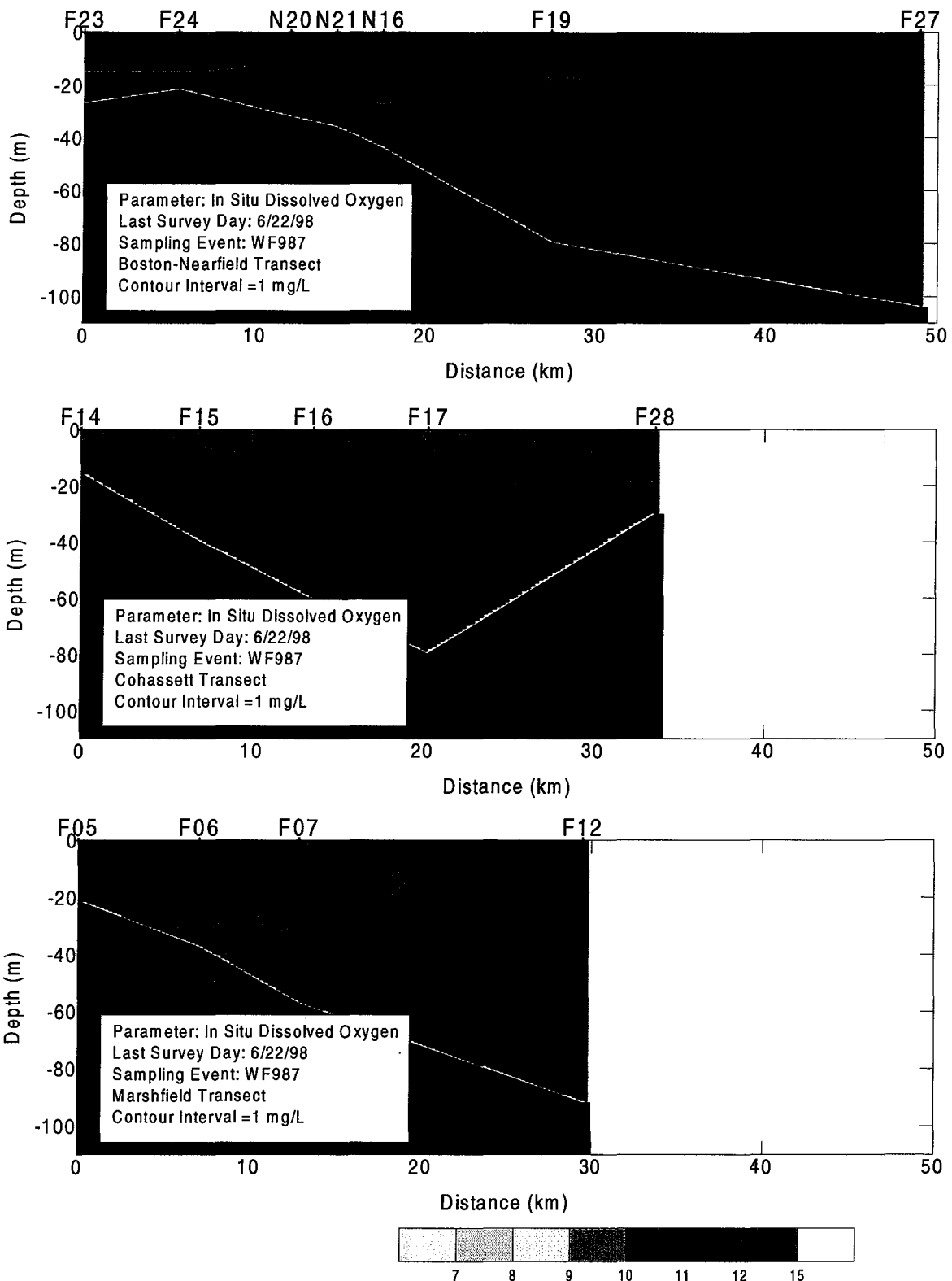


Figure C-62. Dissolved Oxygen Transect Plots (West - East) for Farfield Survey WF987 (Jun 98)

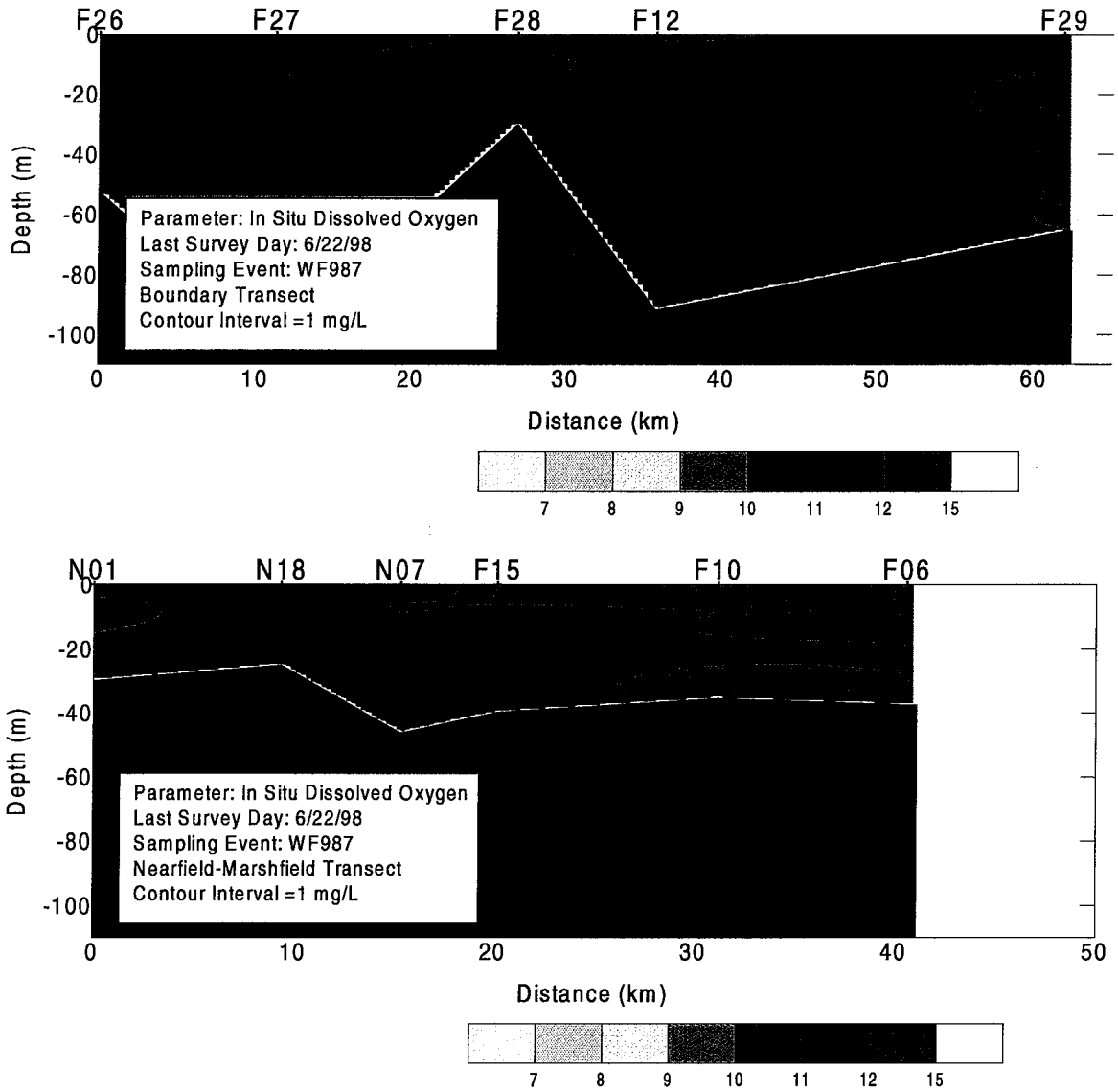


Figure C-63. Dissolved Oxygen Transect Plots (North - South) for Farfield Survey WF987 (Jun 98)

APPENDIX D

Nutrient Scatter Plots for each Survey

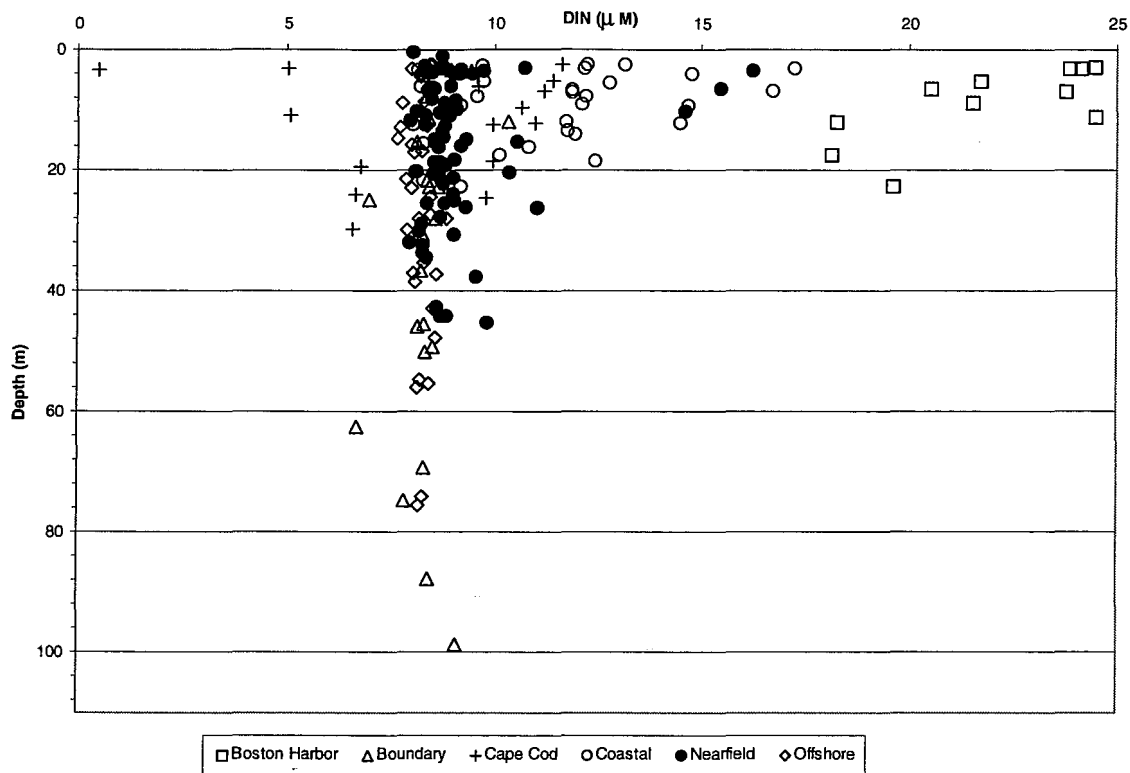


Figure D-1. Depth vs. Nutrient Plots for Farfield Survey WF981, (Feb 98)

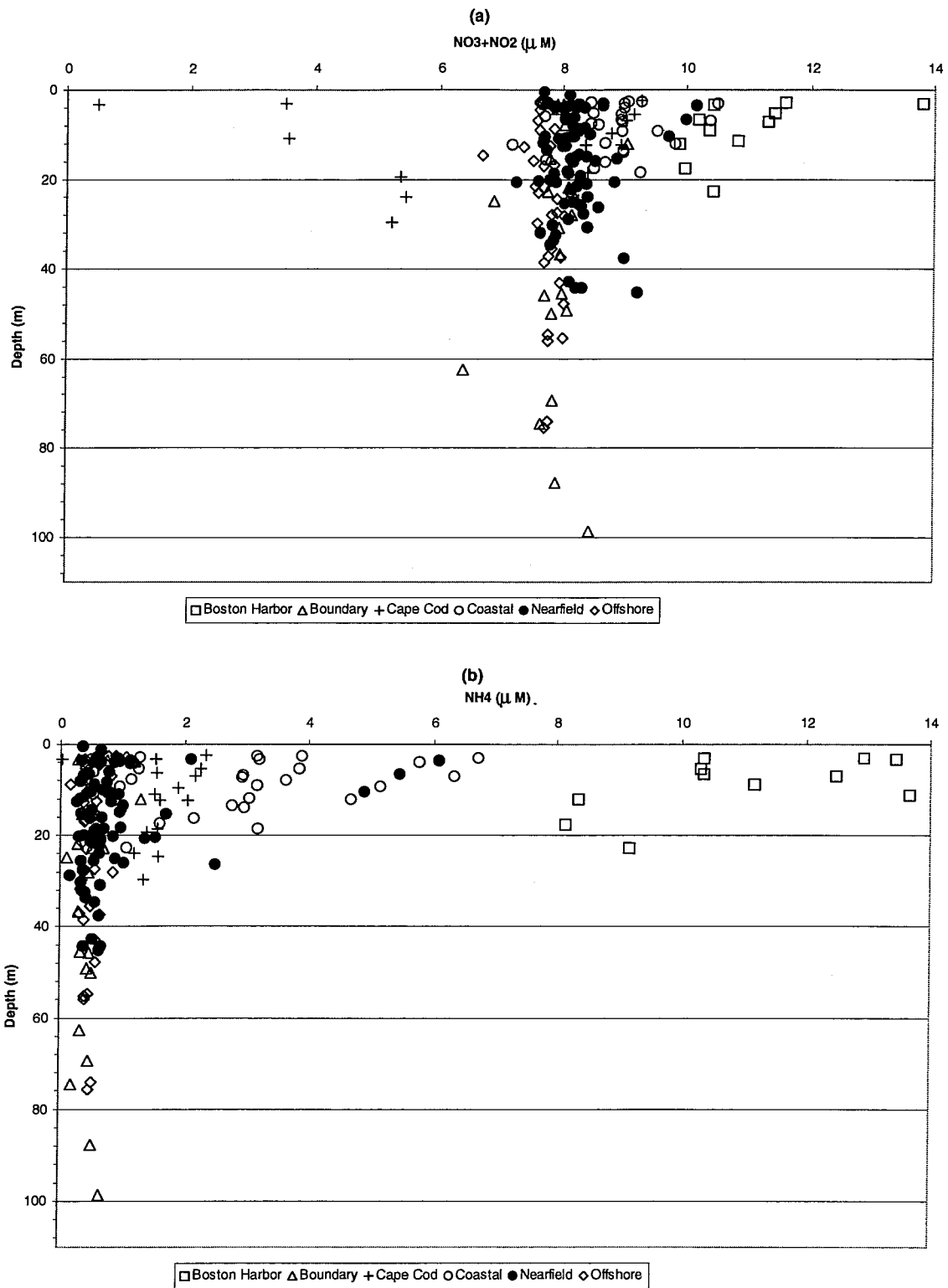


Figure D-2. Depth vs. Nutrient Plots for Farfield Survey WF981, (Feb 98)

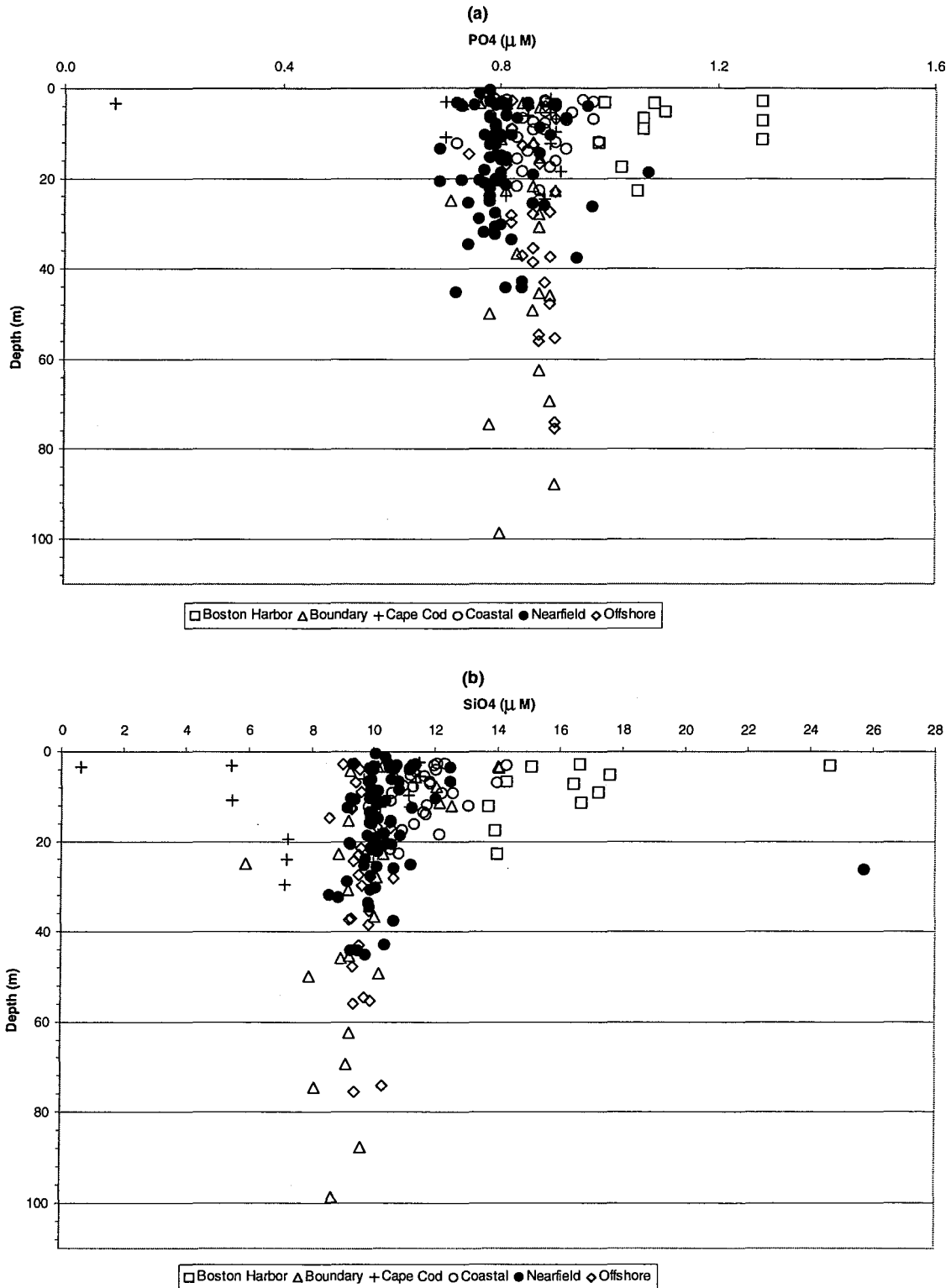


Figure D-3. Depth vs. Nutrient Plots for Farfield Survey WF981, (Feb 98)

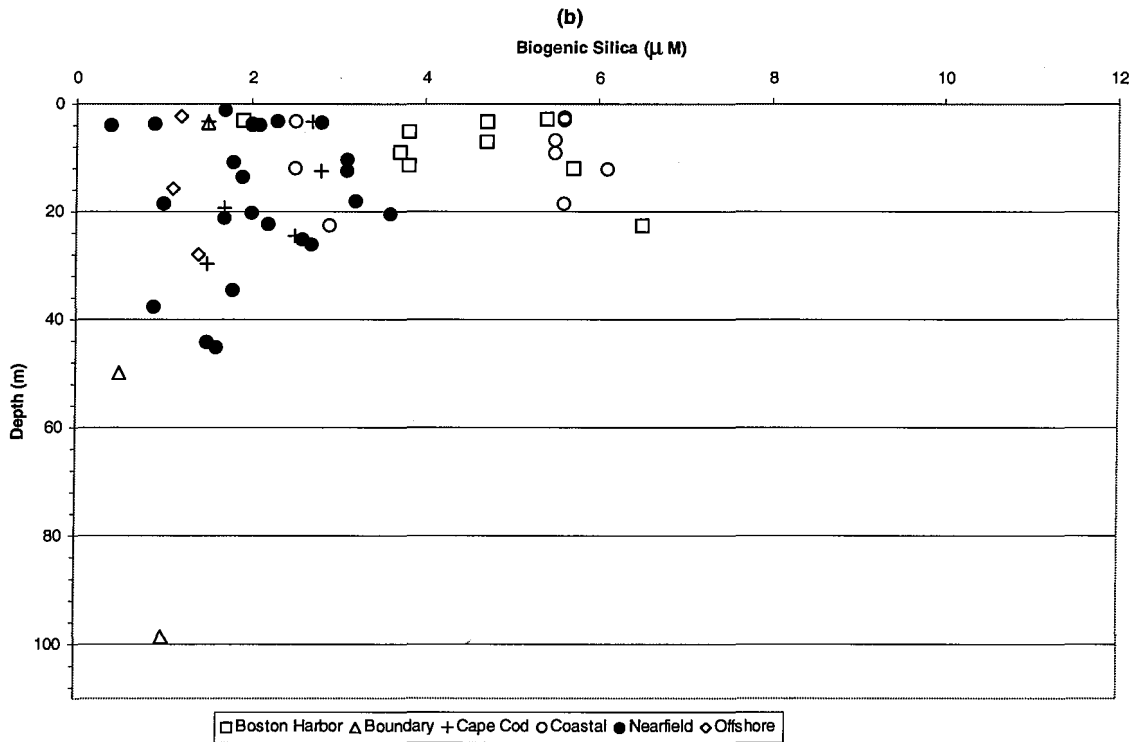
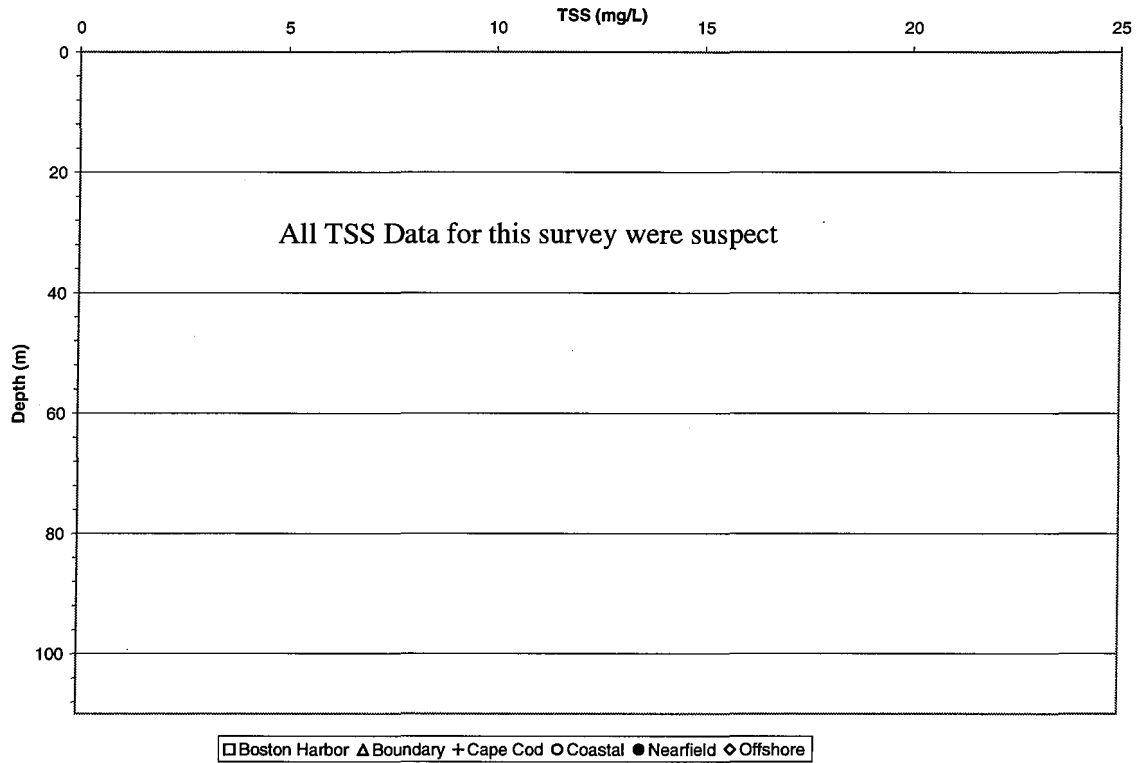


Figure D-4. Depth vs. Nutrient Plots for Farfield Survey WF981, (Feb 98)

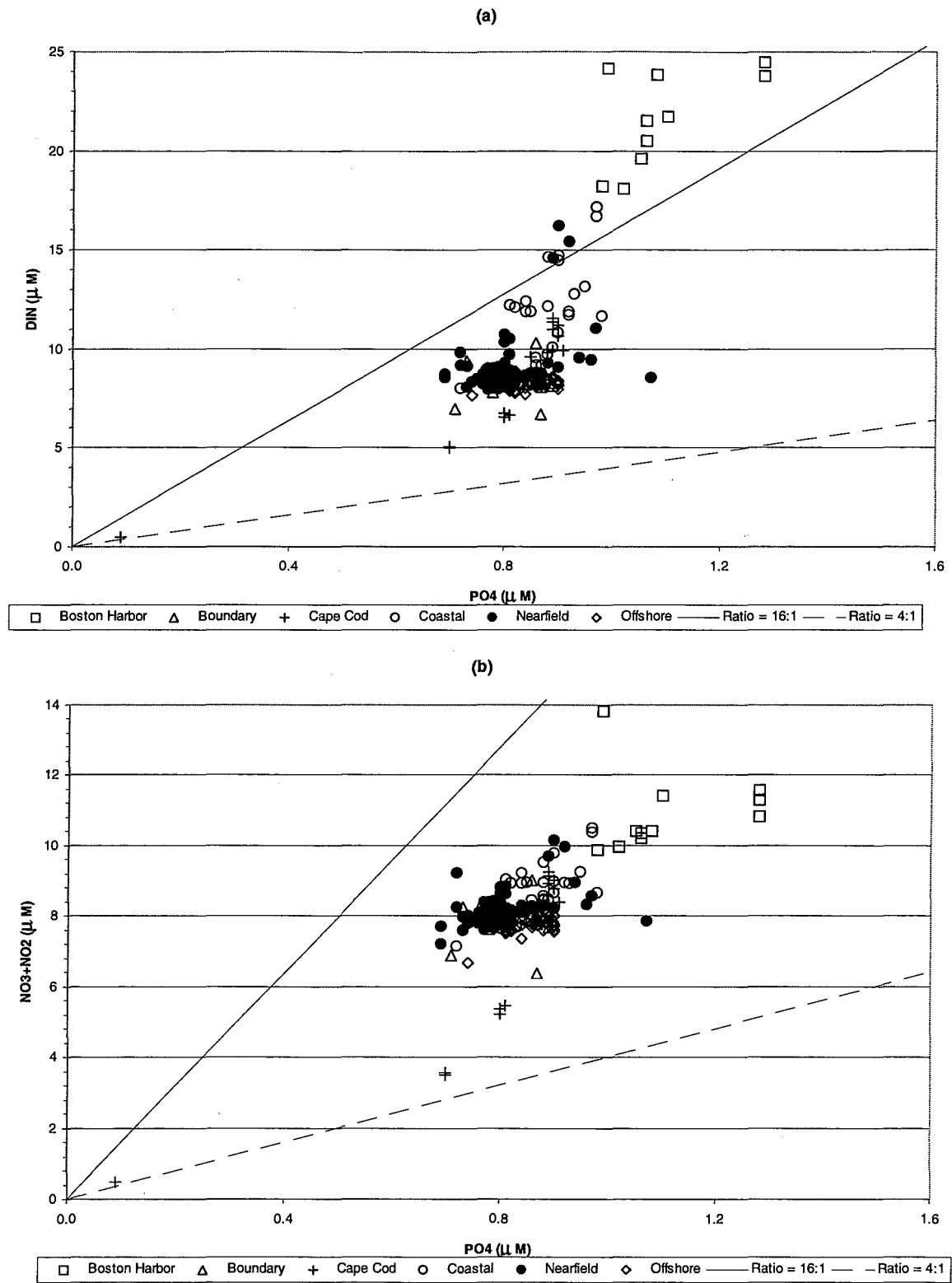


Figure D-5. Nutrient vs. Nutrient Plots for Farfield Survey WF981, (Feb 98)

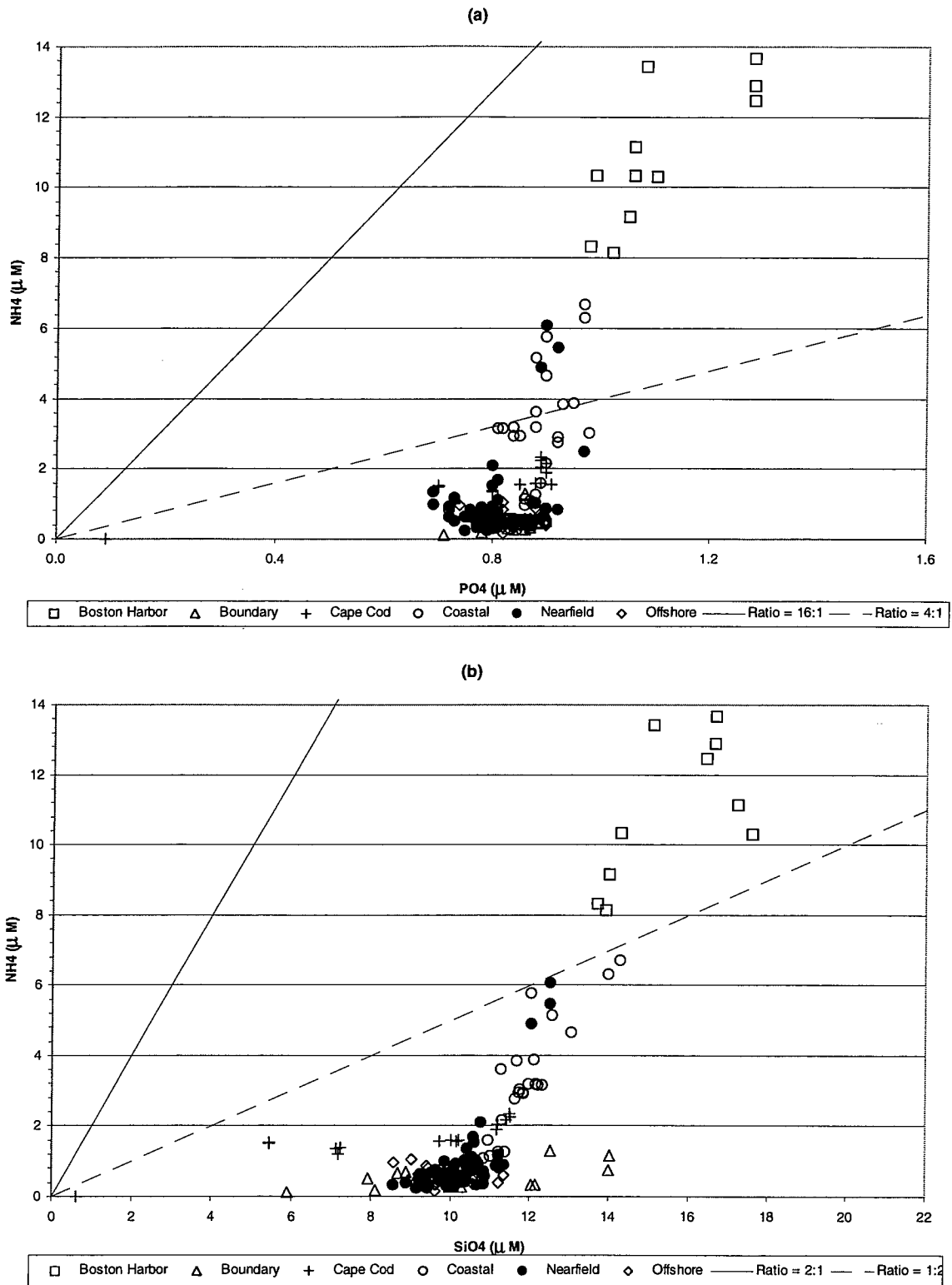


Figure D-6. Nutrient vs. Nutrient Plots for Farfield Survey WF981, (Feb 98)

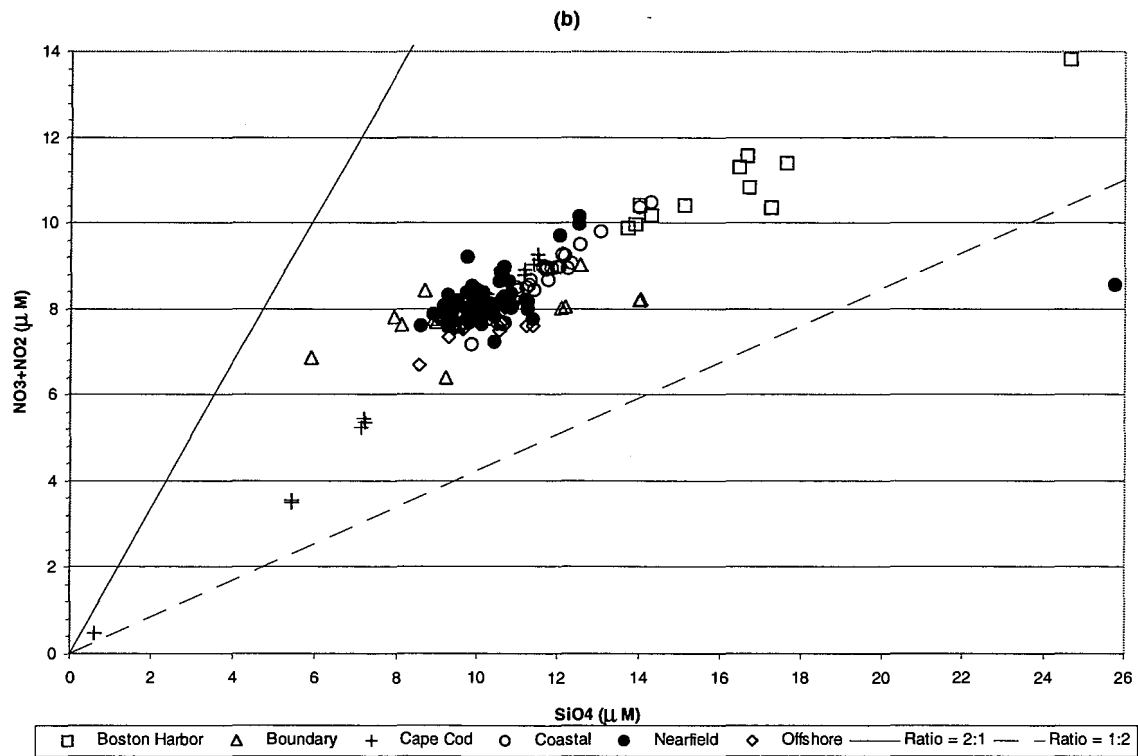
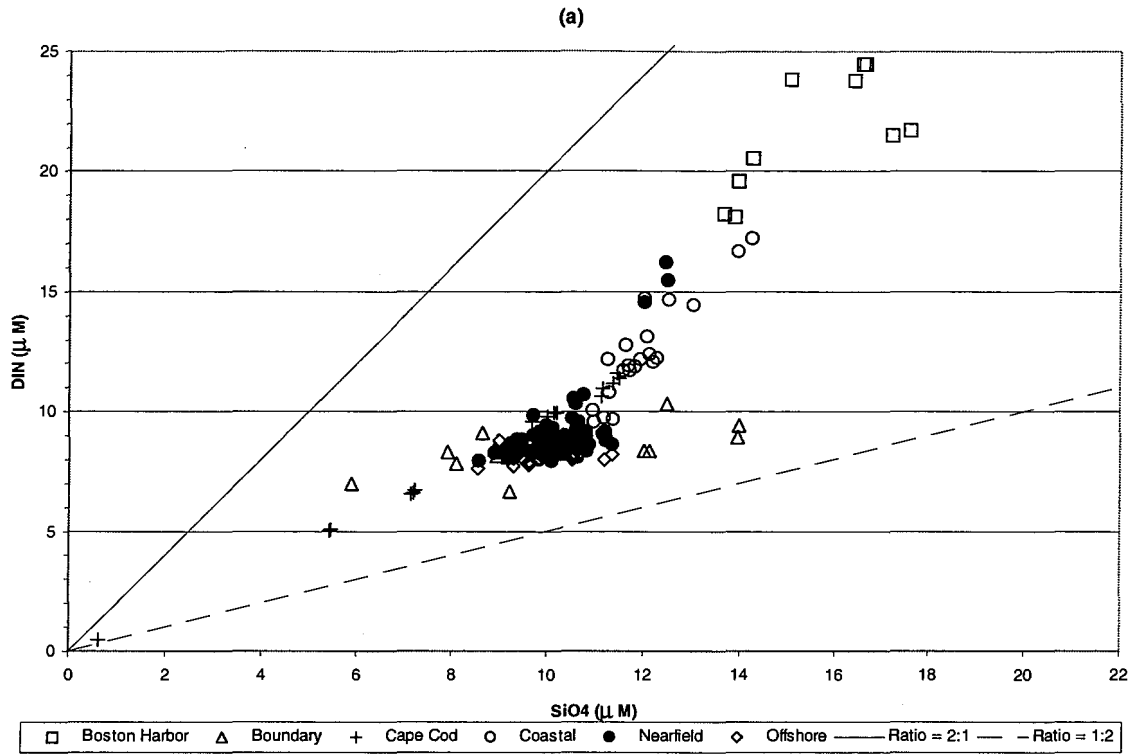


Figure D-7. Nutrient vs. Nutrient Plots for Farfield Survey WF981, (Feb 98)

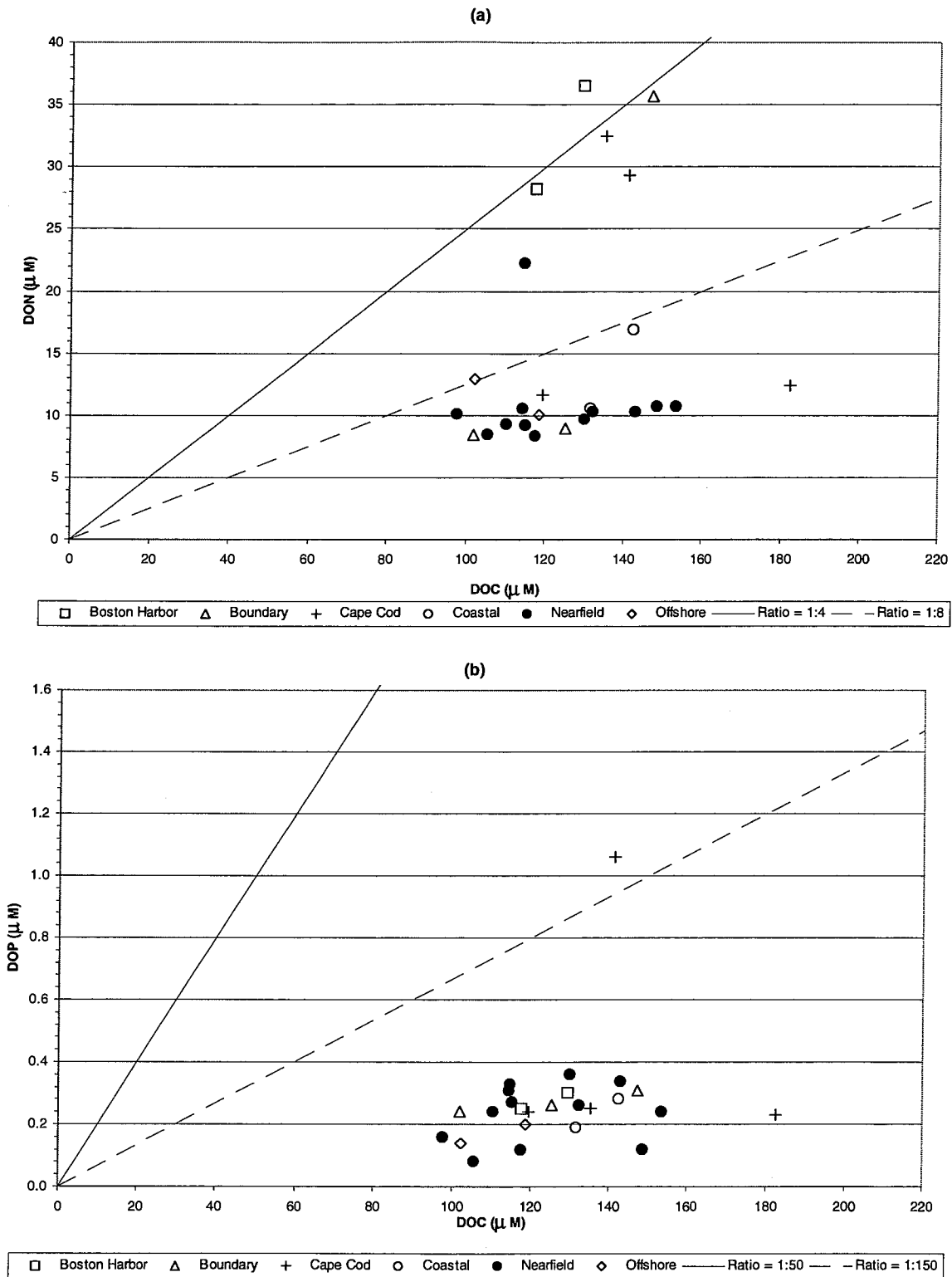


Figure D-8. Nutrient vs. Nutrient Plots for Farfield Survey WF981, (Feb 98)

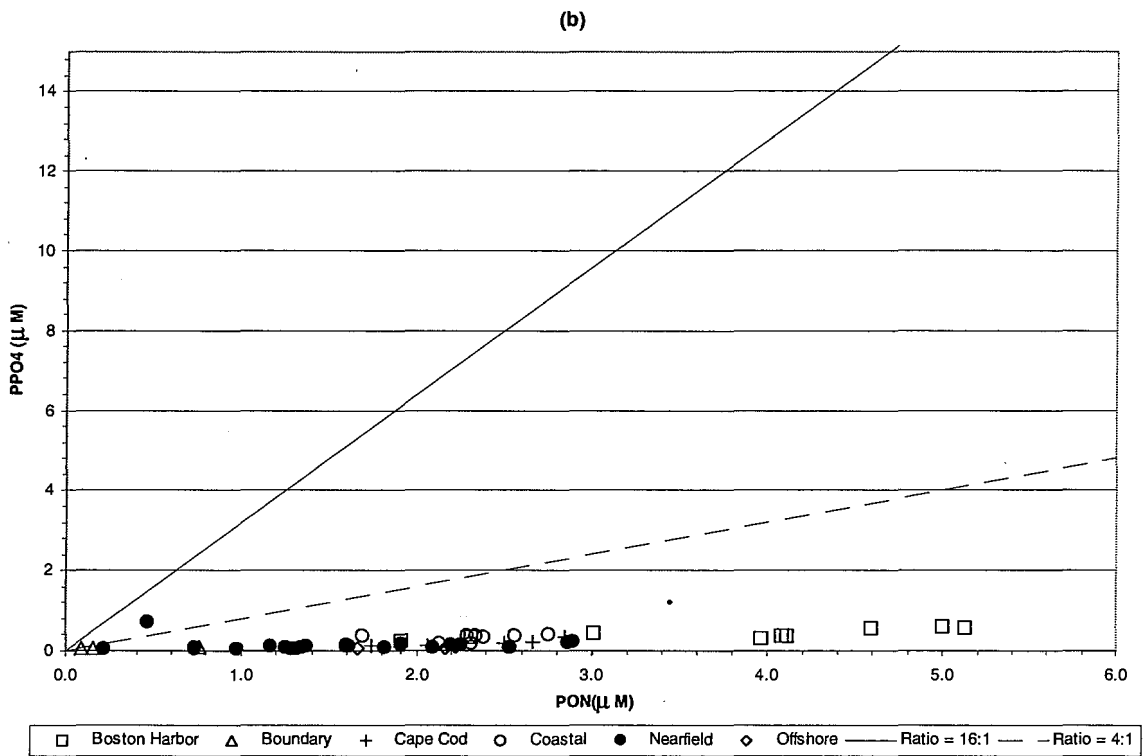
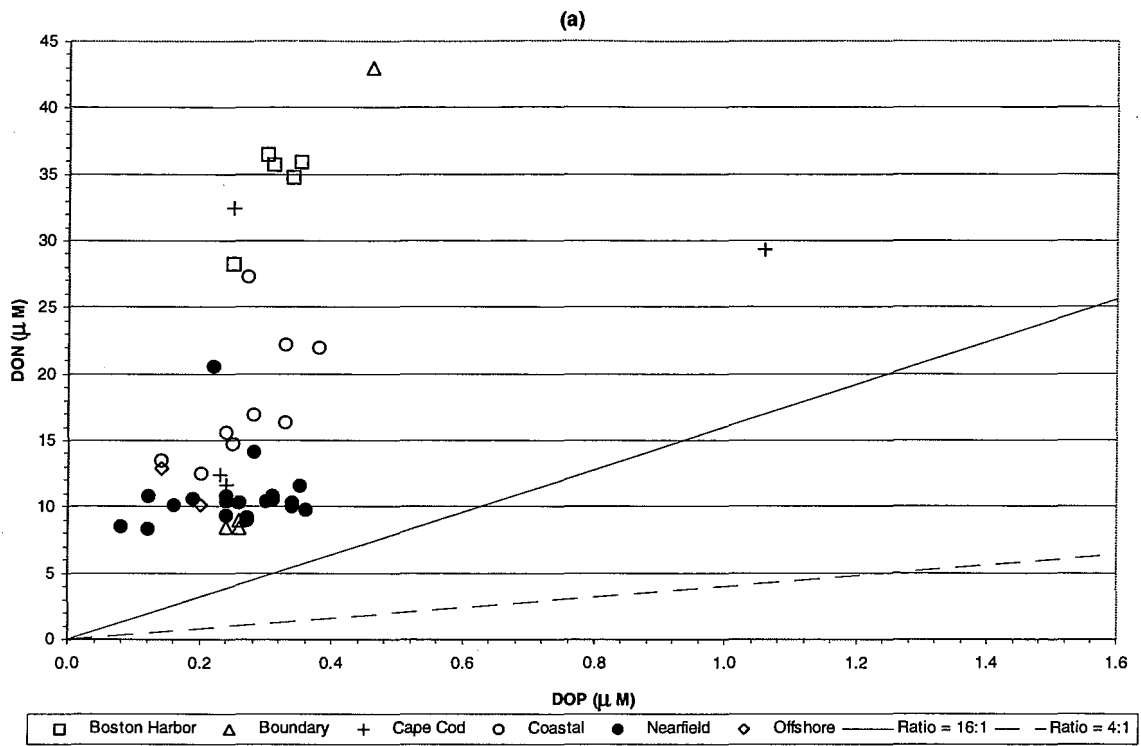


Figure D-9. Nutrient vs. Nutrient Plots for Farfield Survey WF981, (Feb 98)

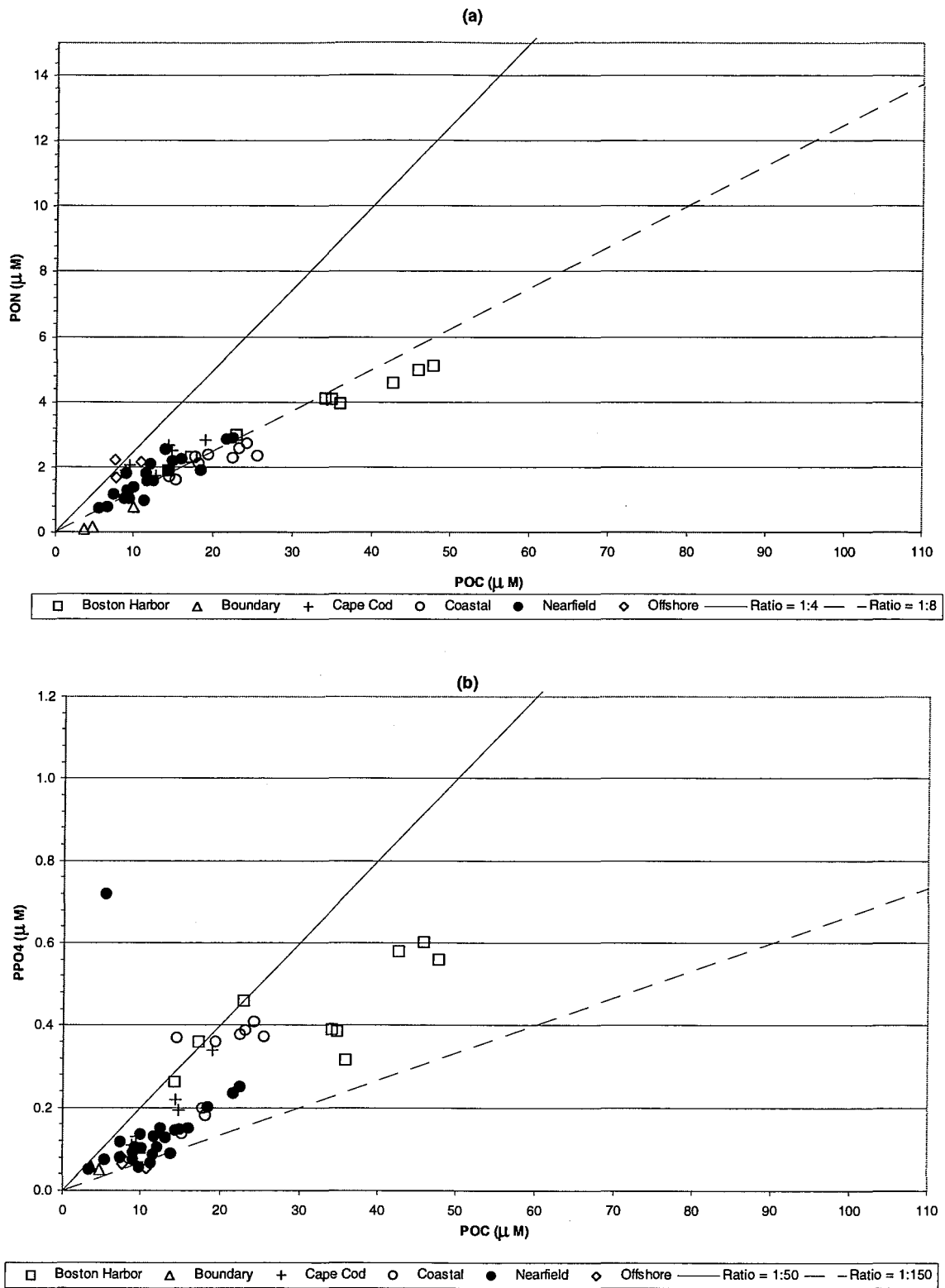


Figure D-10. Nutrient vs. Nutrient Plots for Farfield Survey WF981, (Feb 98)

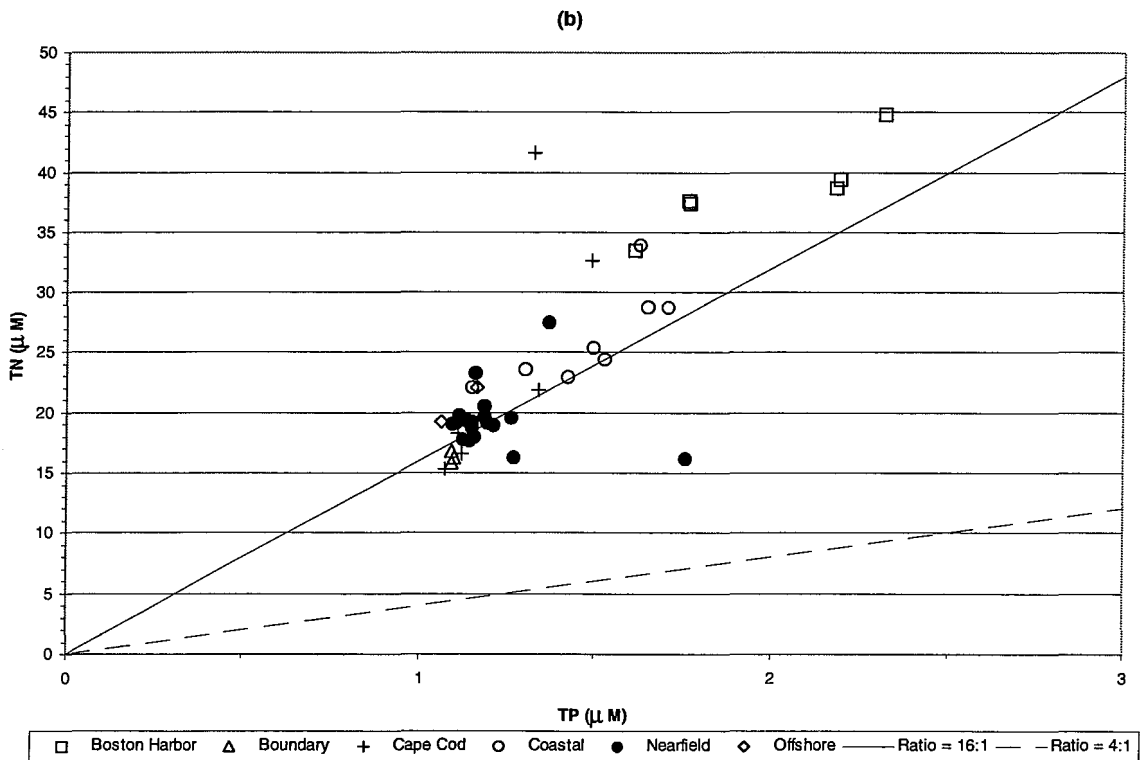
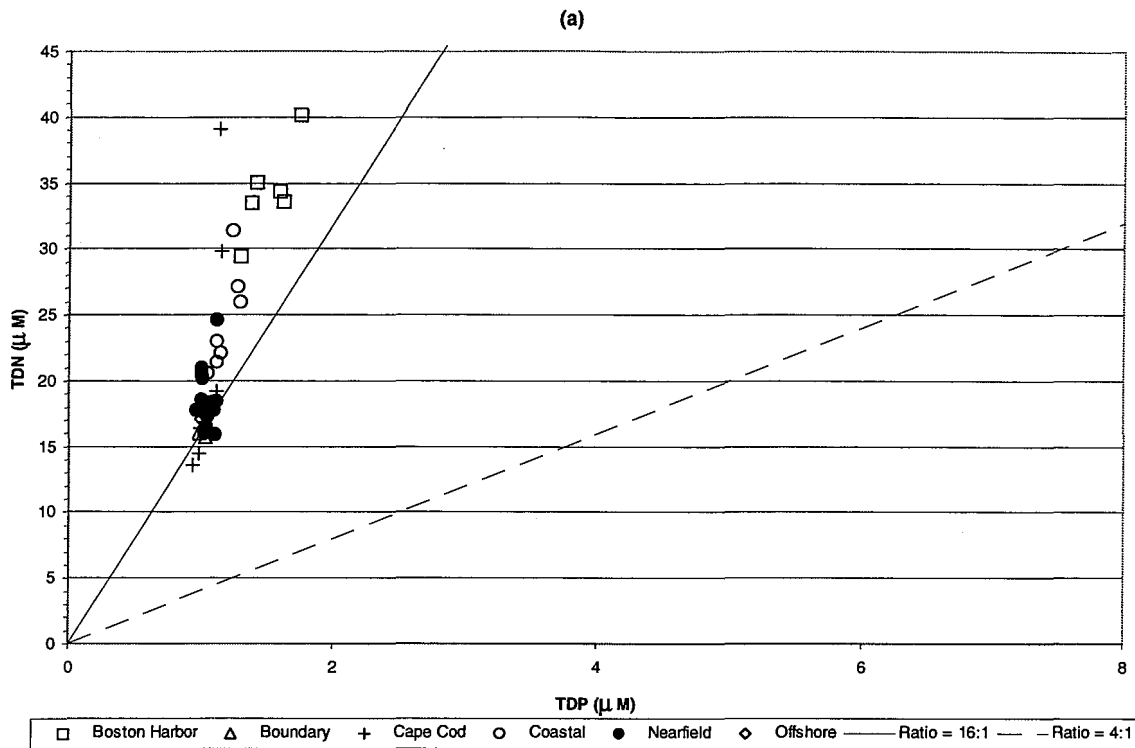


Figure D-11. Nutrient vs. Nutrient Plots for Farfield Survey WF981, (Feb 98)

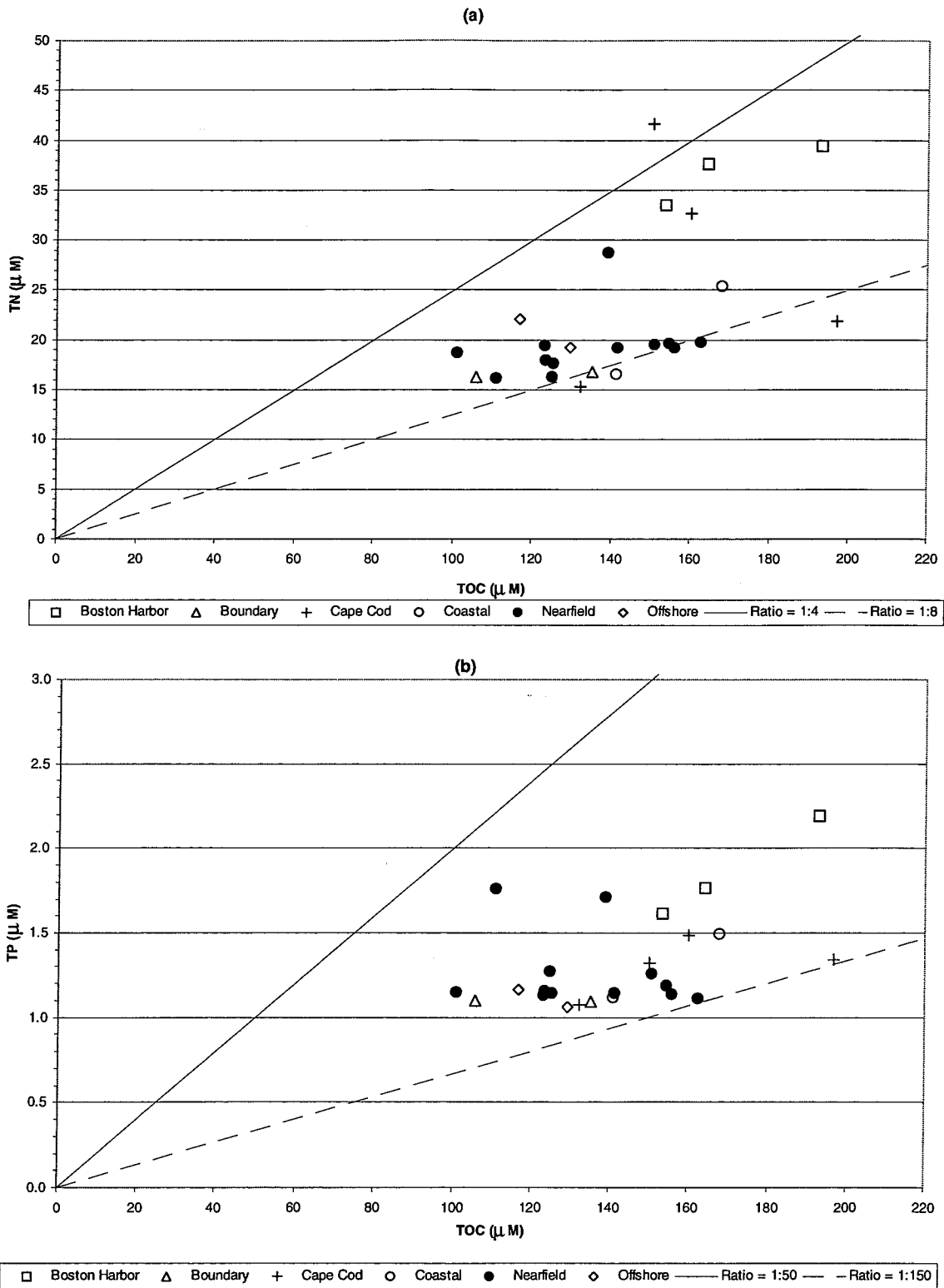


Figure D-12. Nutrient vs. Nutrient Plots for Farfield Survey WF981, (Feb 98)

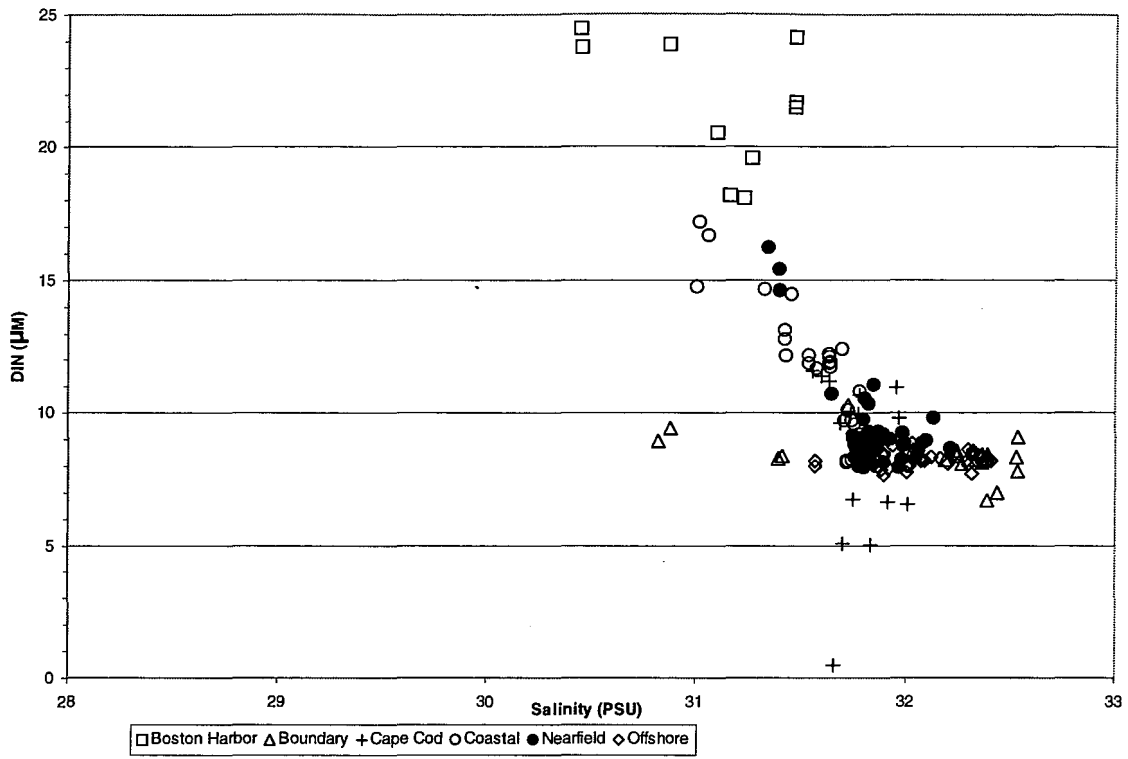


Figure D-13. Nutrient vs. Salinity Plots for Farfield Survey WF981, (Feb 98)

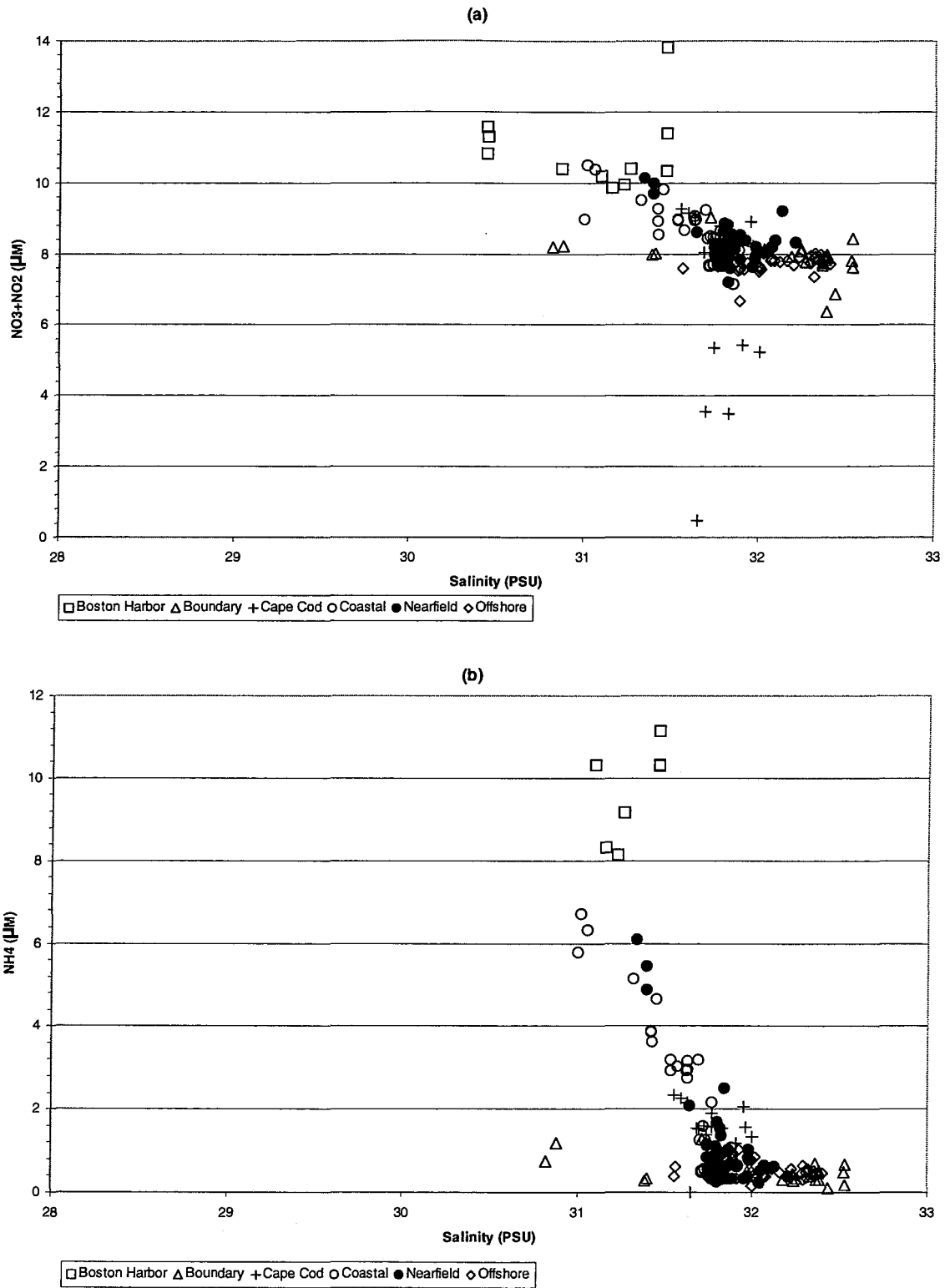


Figure D-14. Nutrient vs. Salinity Plots for Farfield Survey WF981, (Feb 98)

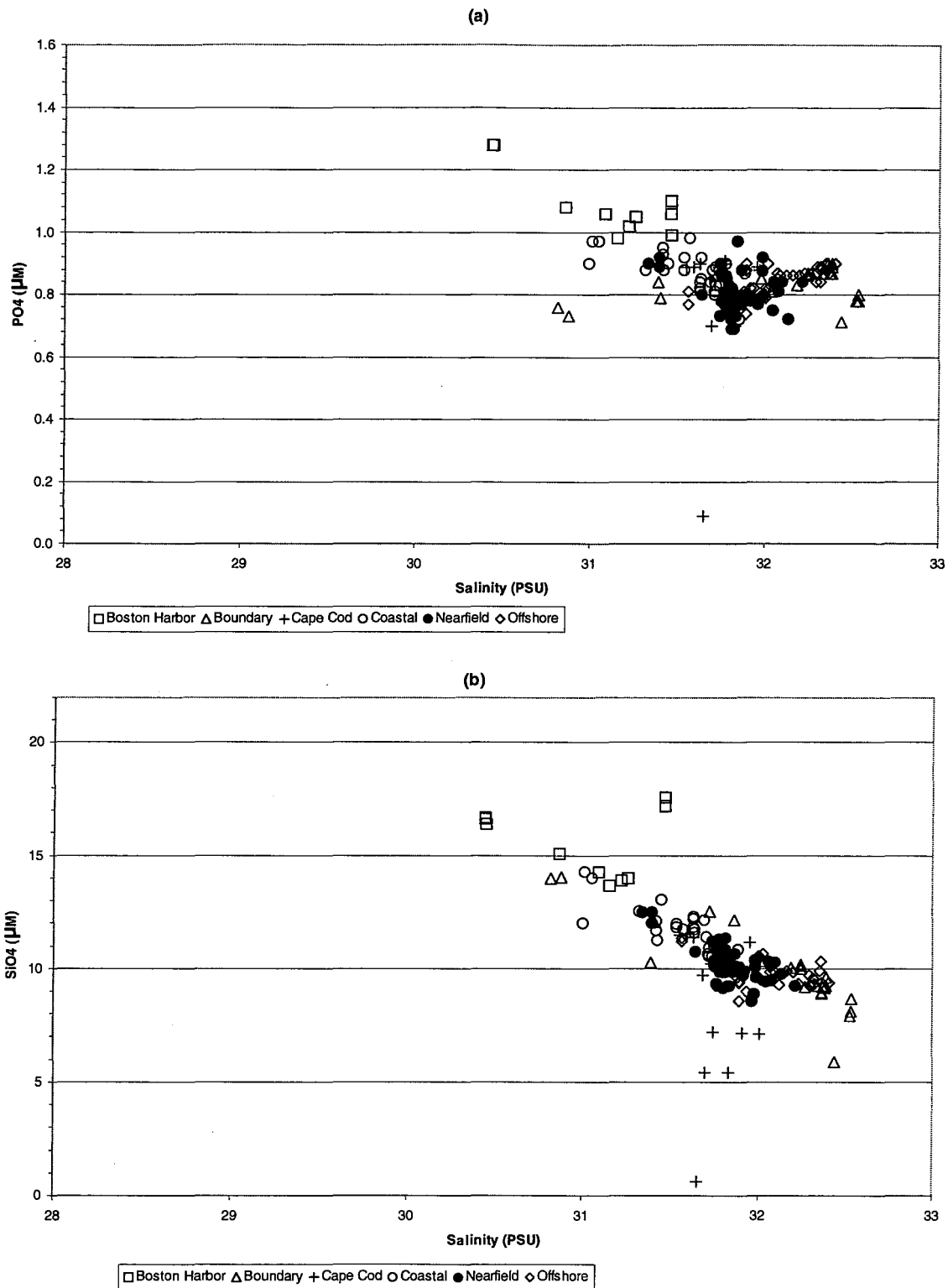


Figure D-15. Nutrient vs. Salinity Plots for Farfield Survey WF981, (Feb 98)

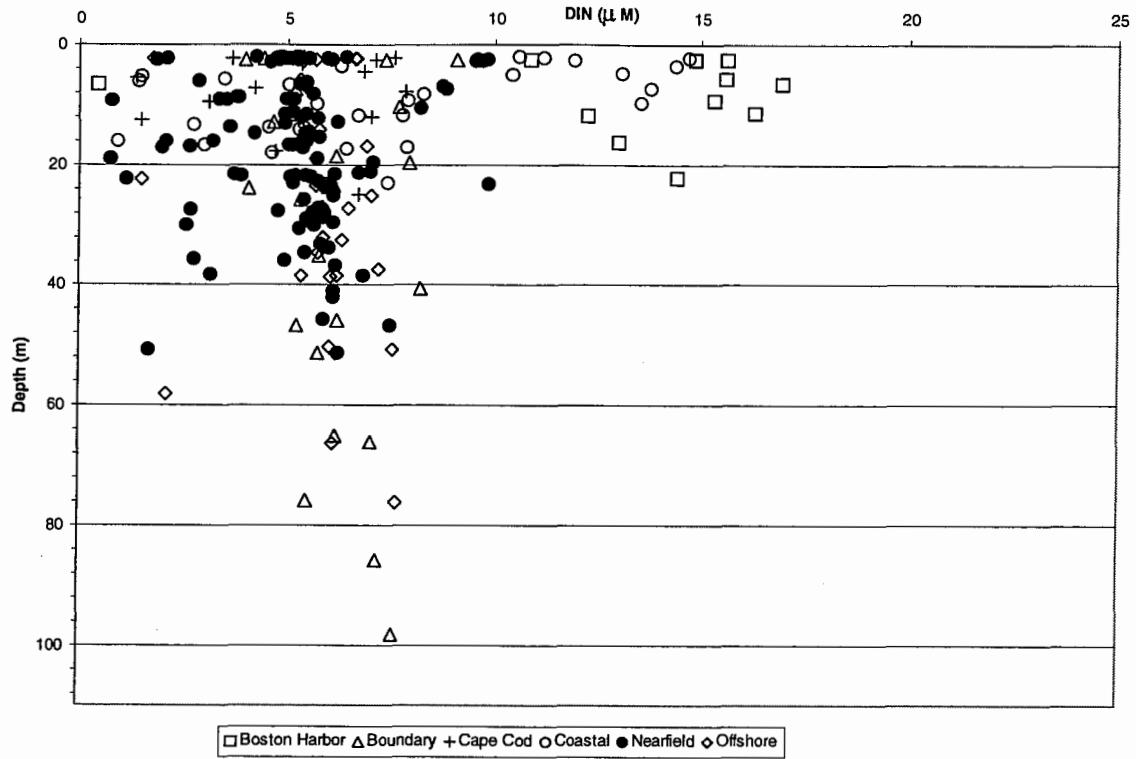


Figure D-16. Depth vs. Nutrient Plots for Farfield Survey WF982, (Feb 98)

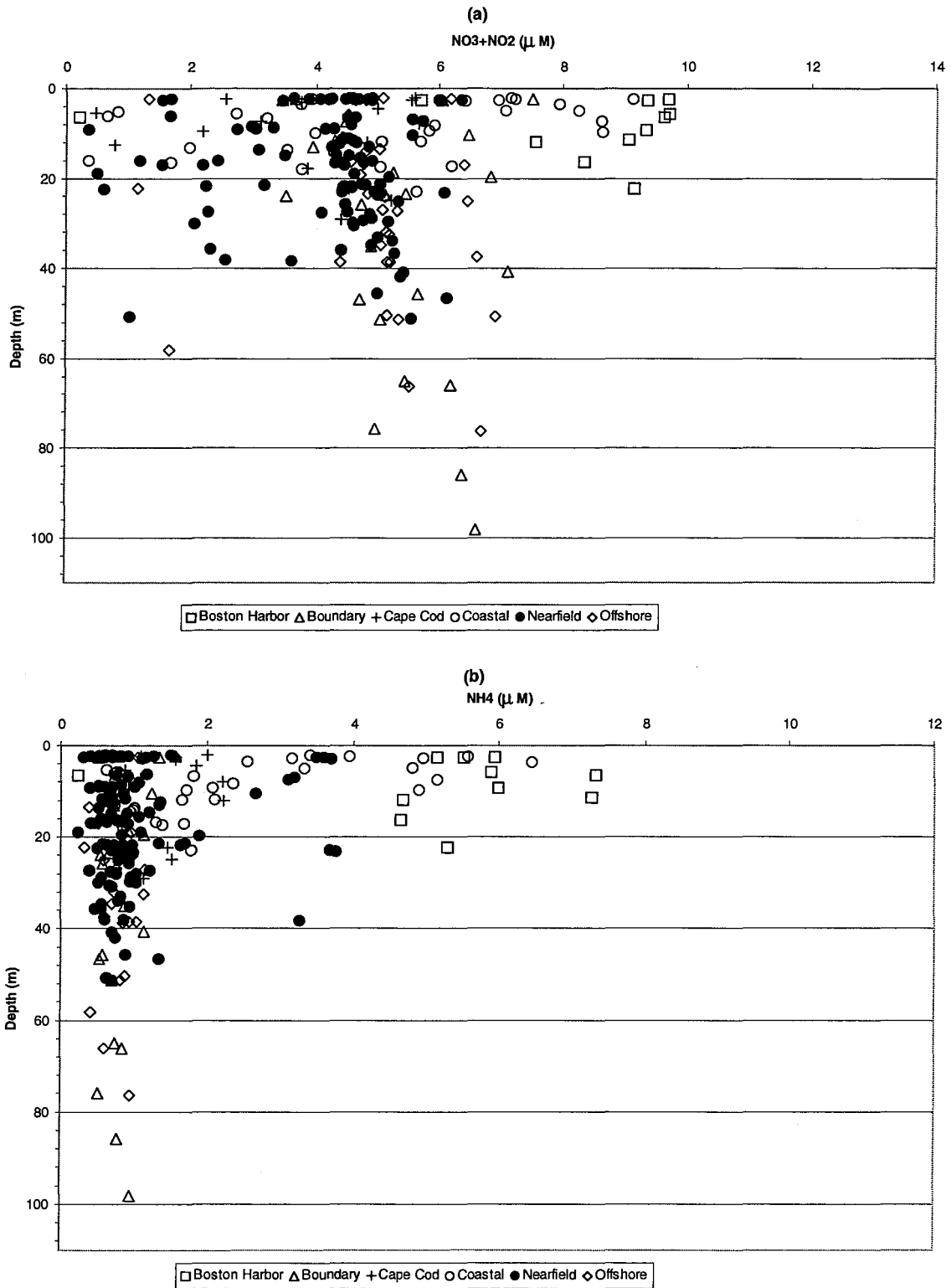


Figure D-17. Depth vs. Nutrient Plots for Farfield Survey WF982, (Feb 98)

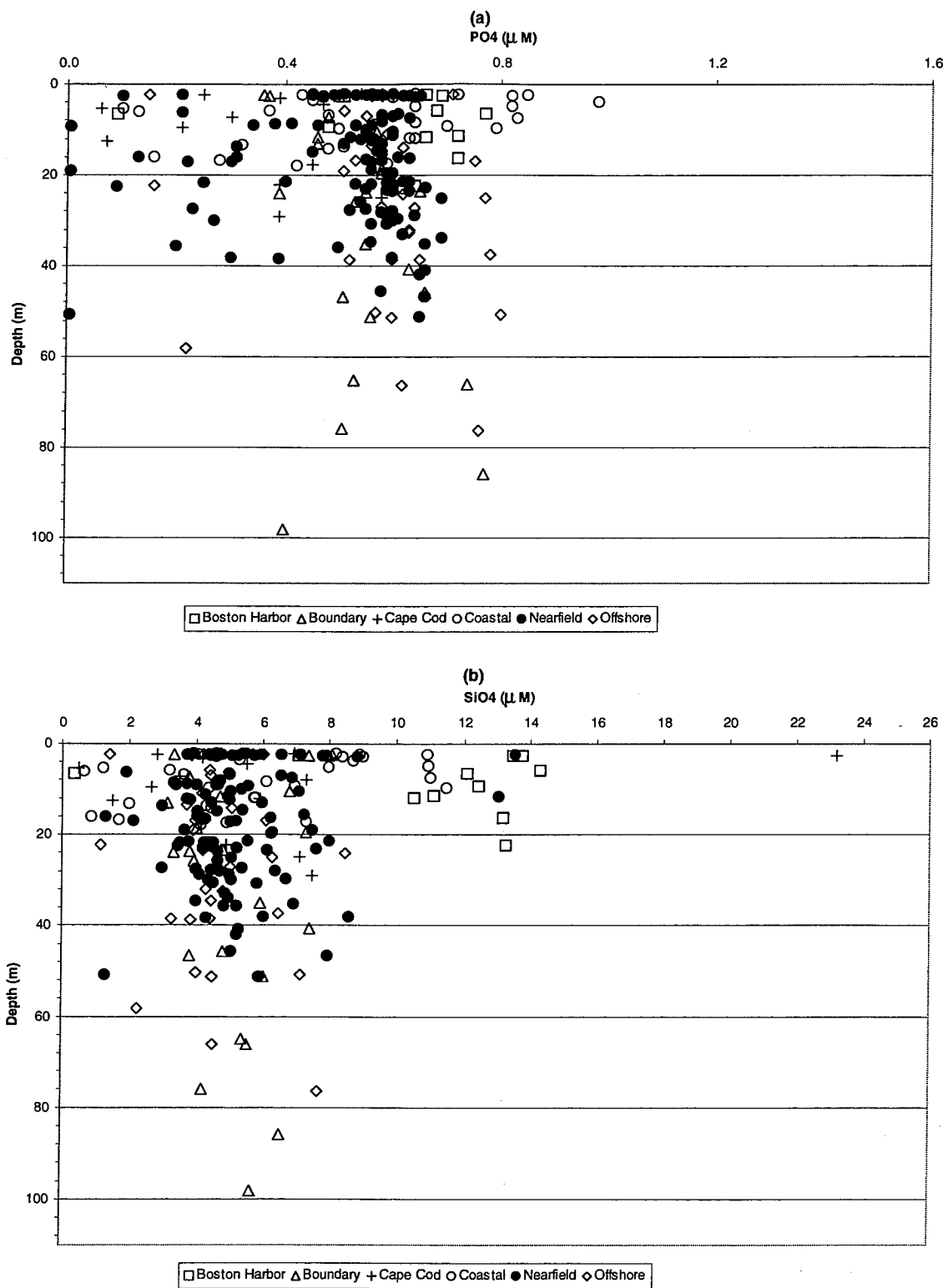


Figure D-18. Depth vs. Nutrient Plots for Farfield Survey WF982, (Feb 98)

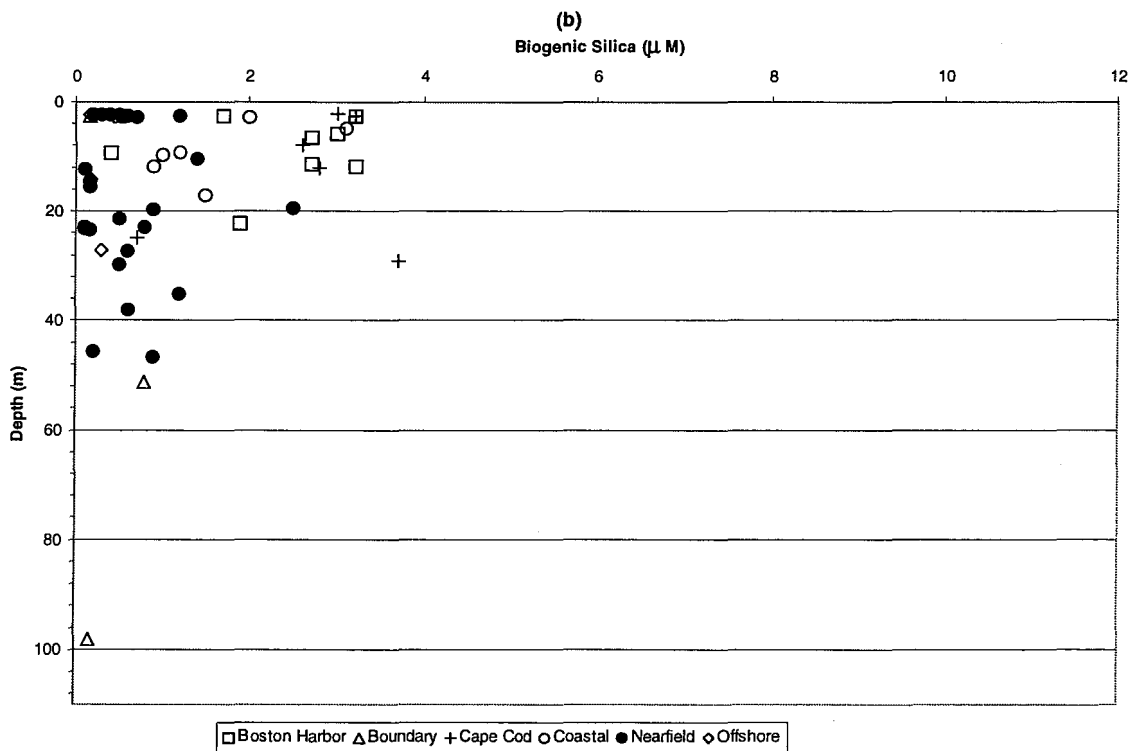
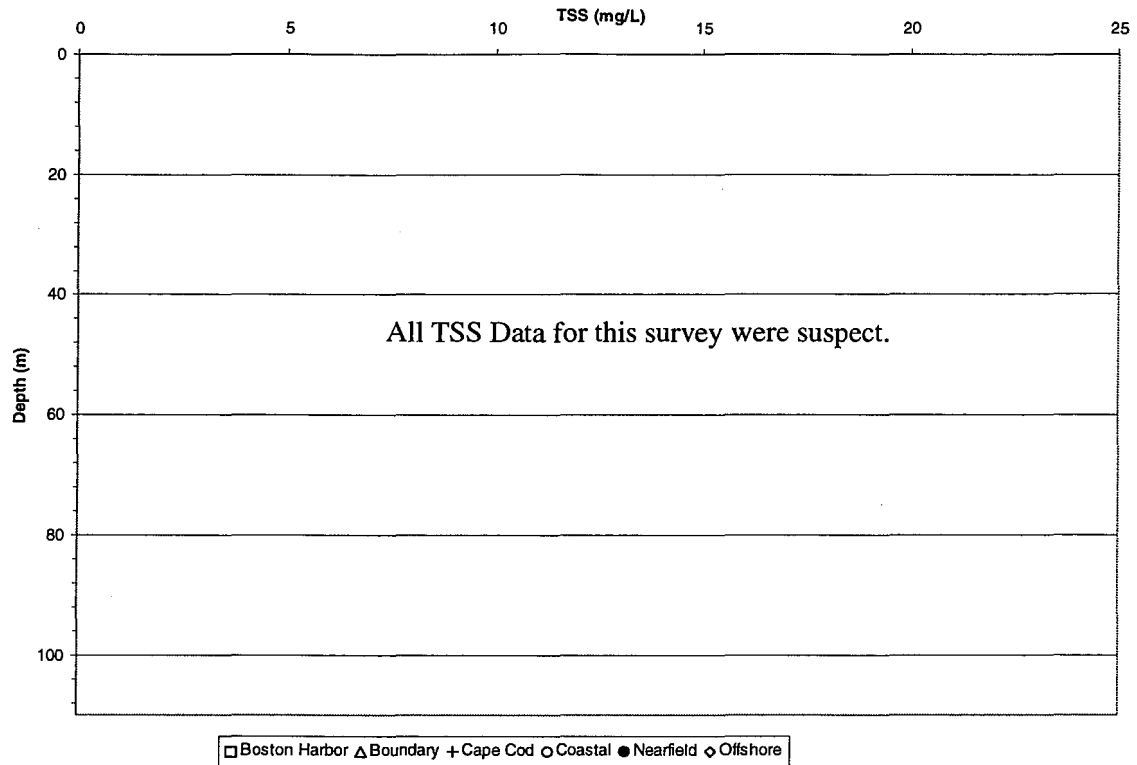


Figure D-19. Depth vs. Nutrient Plots for Farfield Survey WF982, (Feb 98)

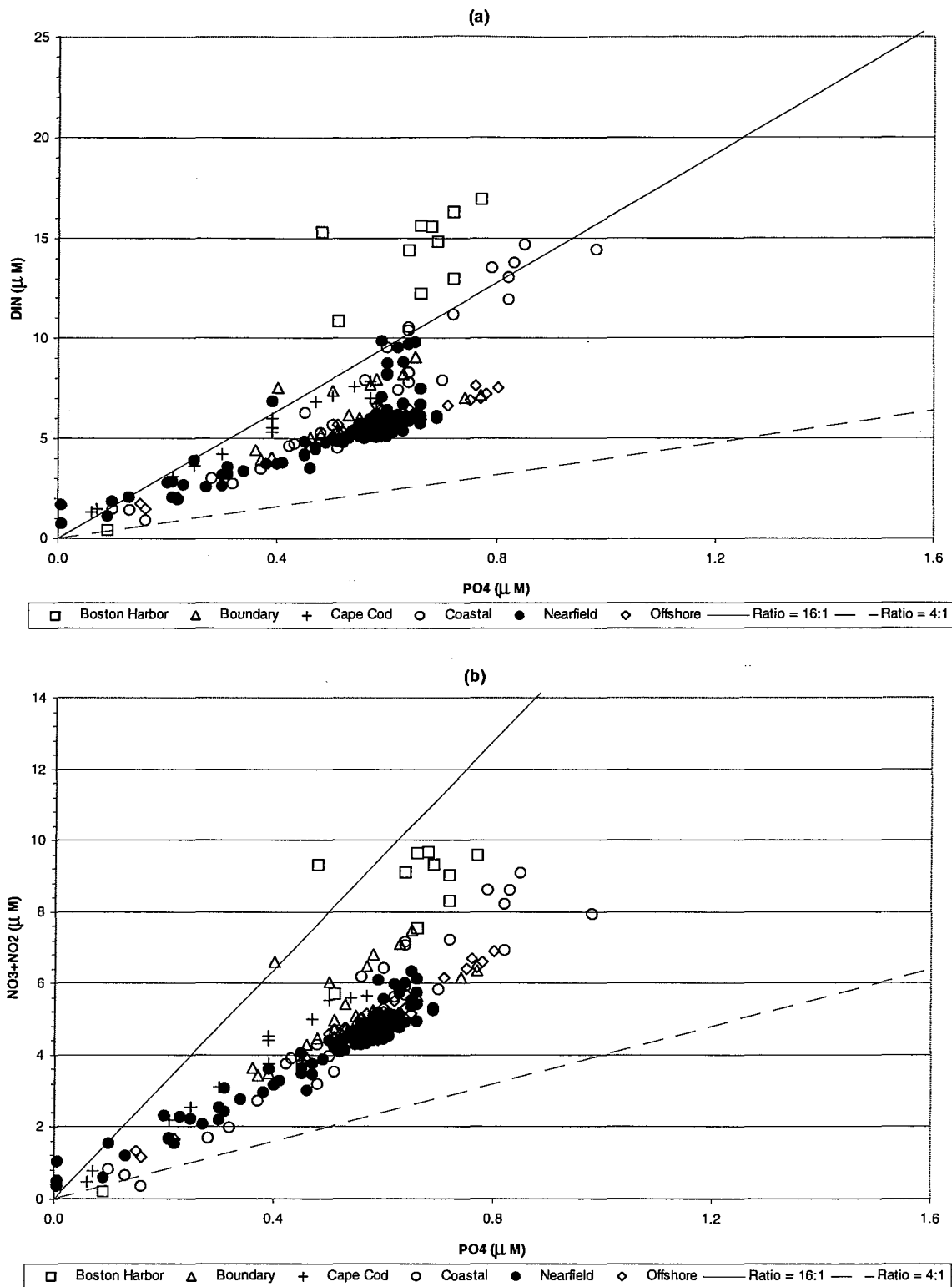


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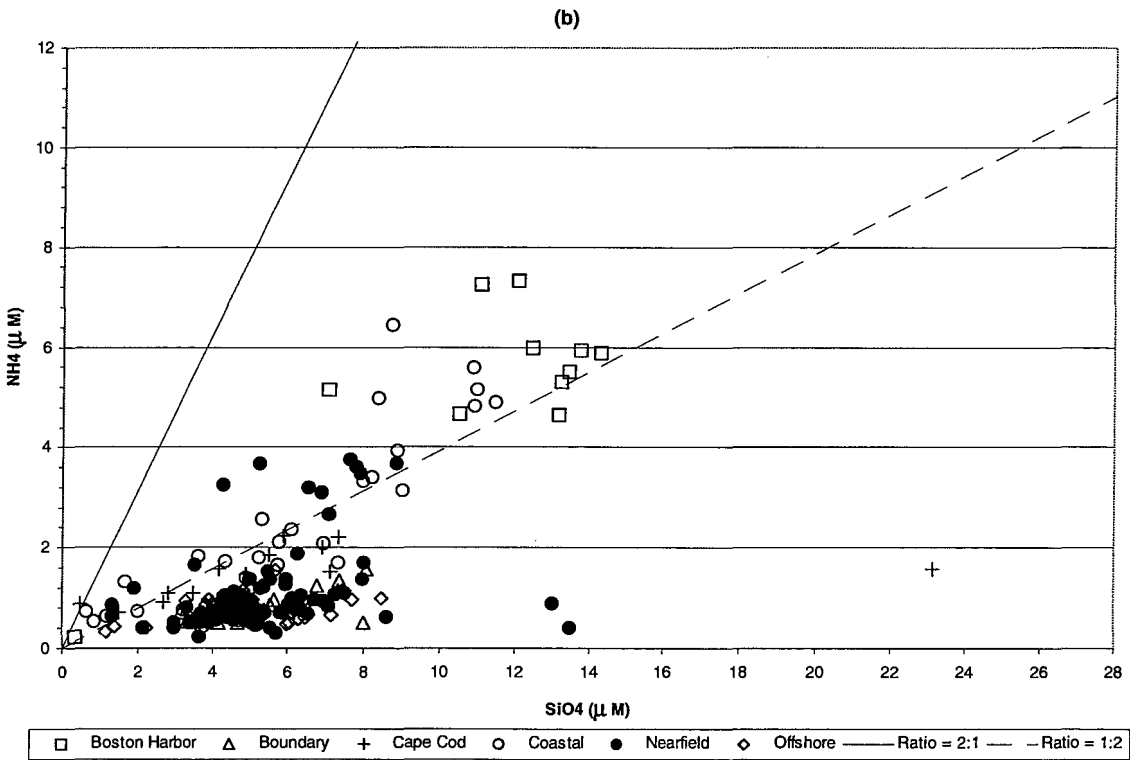
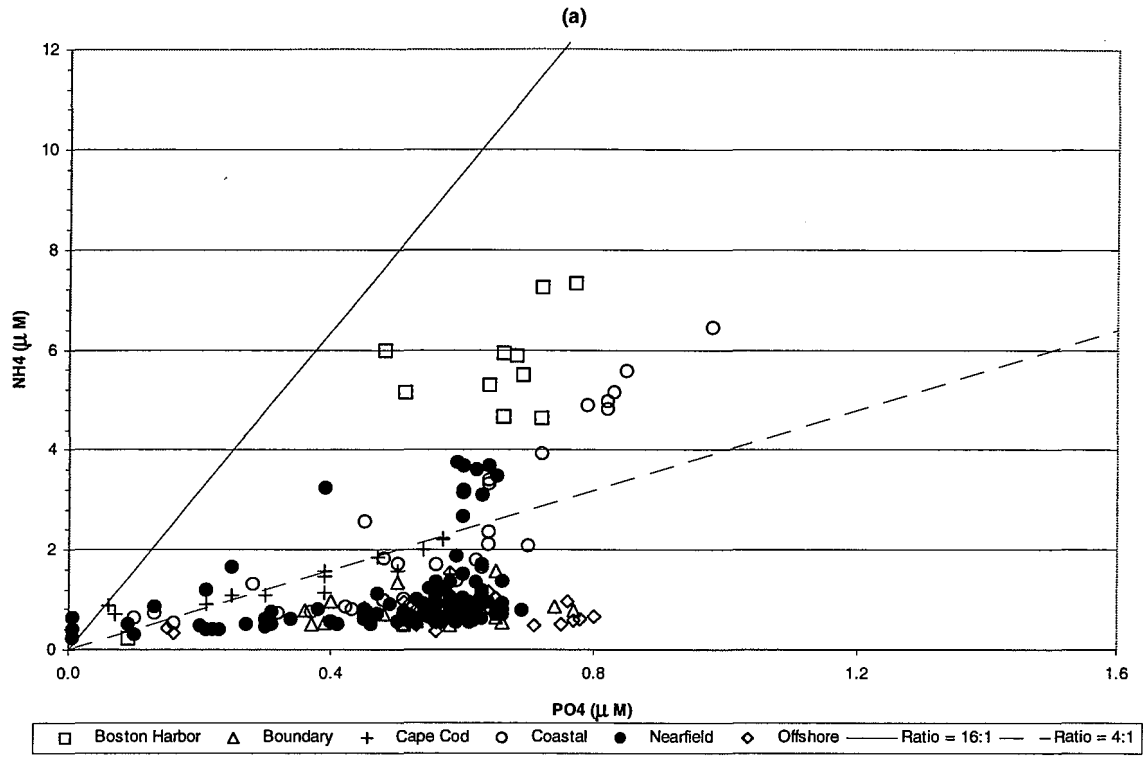


Figure D-21. Nutrient vs. Nutrient Plots for Farfield Survey WF982, (Feb 98)

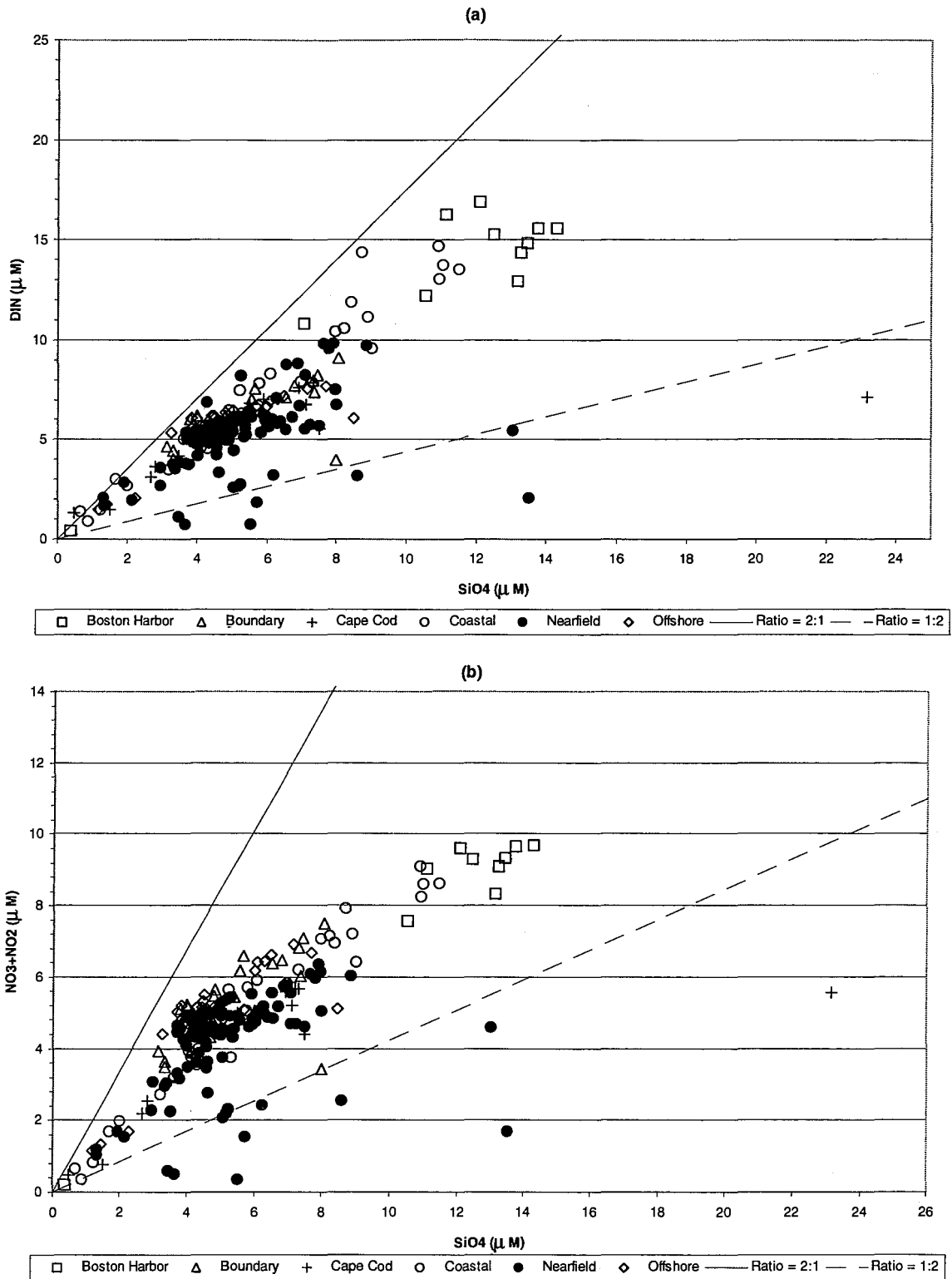


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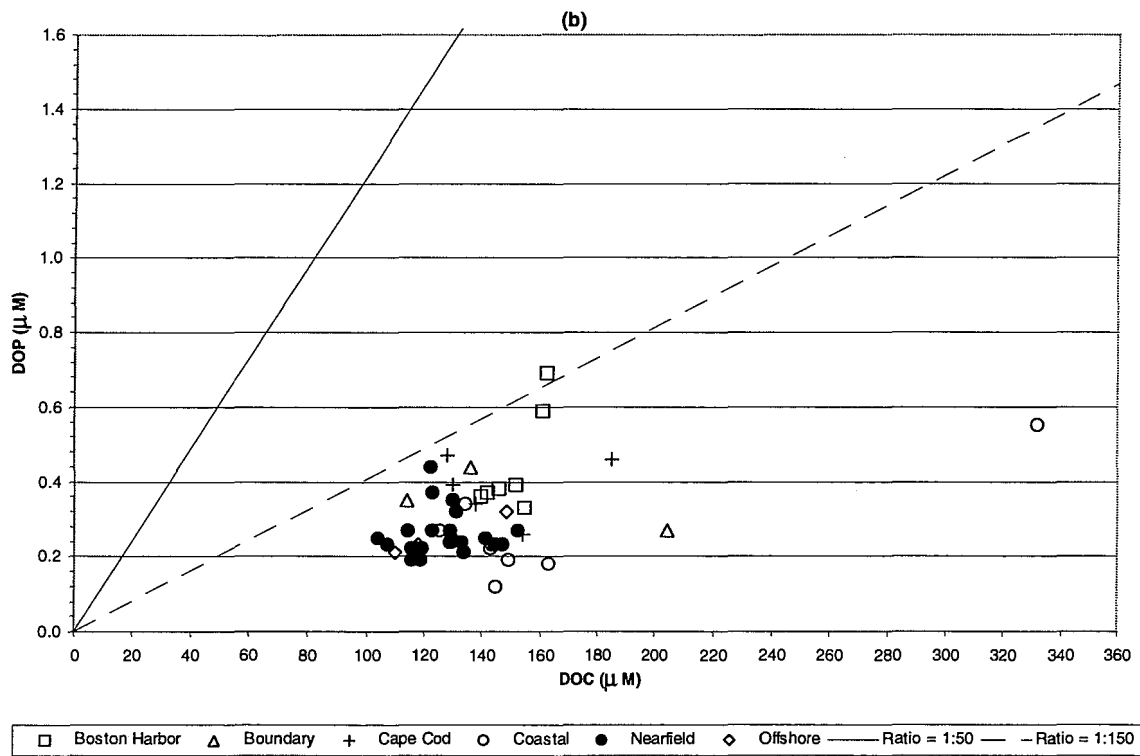
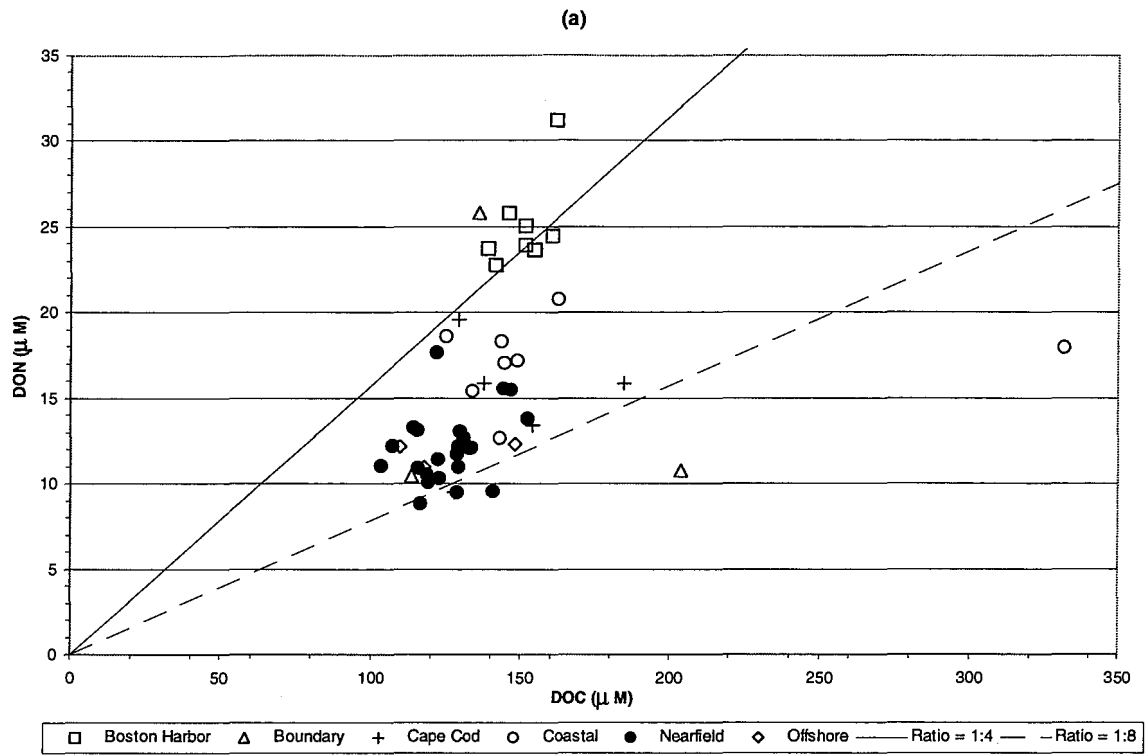


Figure D-23. Nutrient vs. Nutrient Plots for Farfield Survey WF982, (Feb 98)

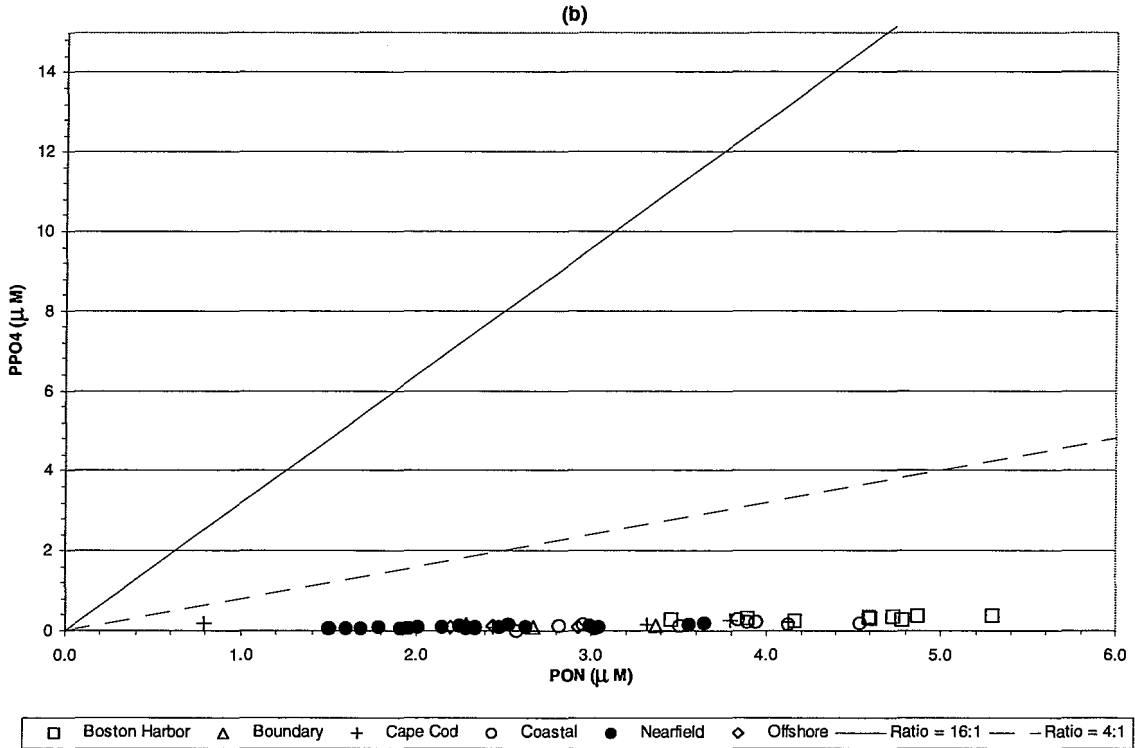
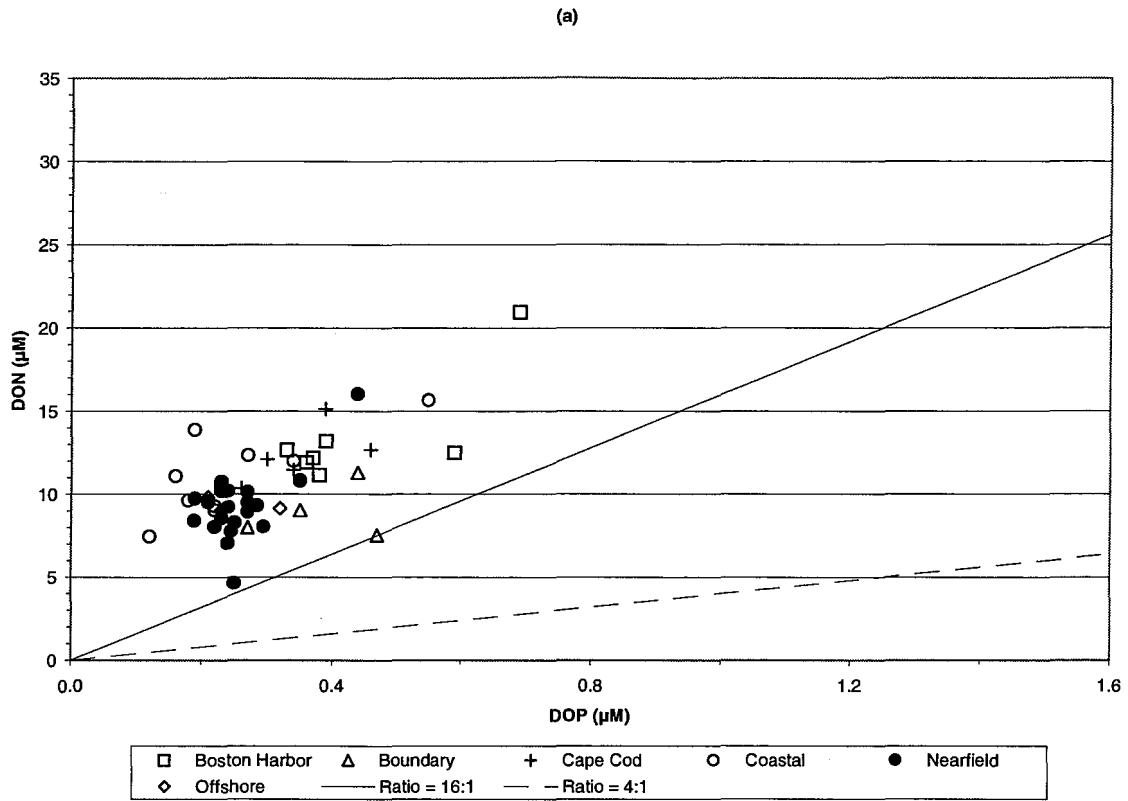


Figure D-24. Nutrient vs. Nutrient Plots for Farfield Survey WF982, (Feb 98)

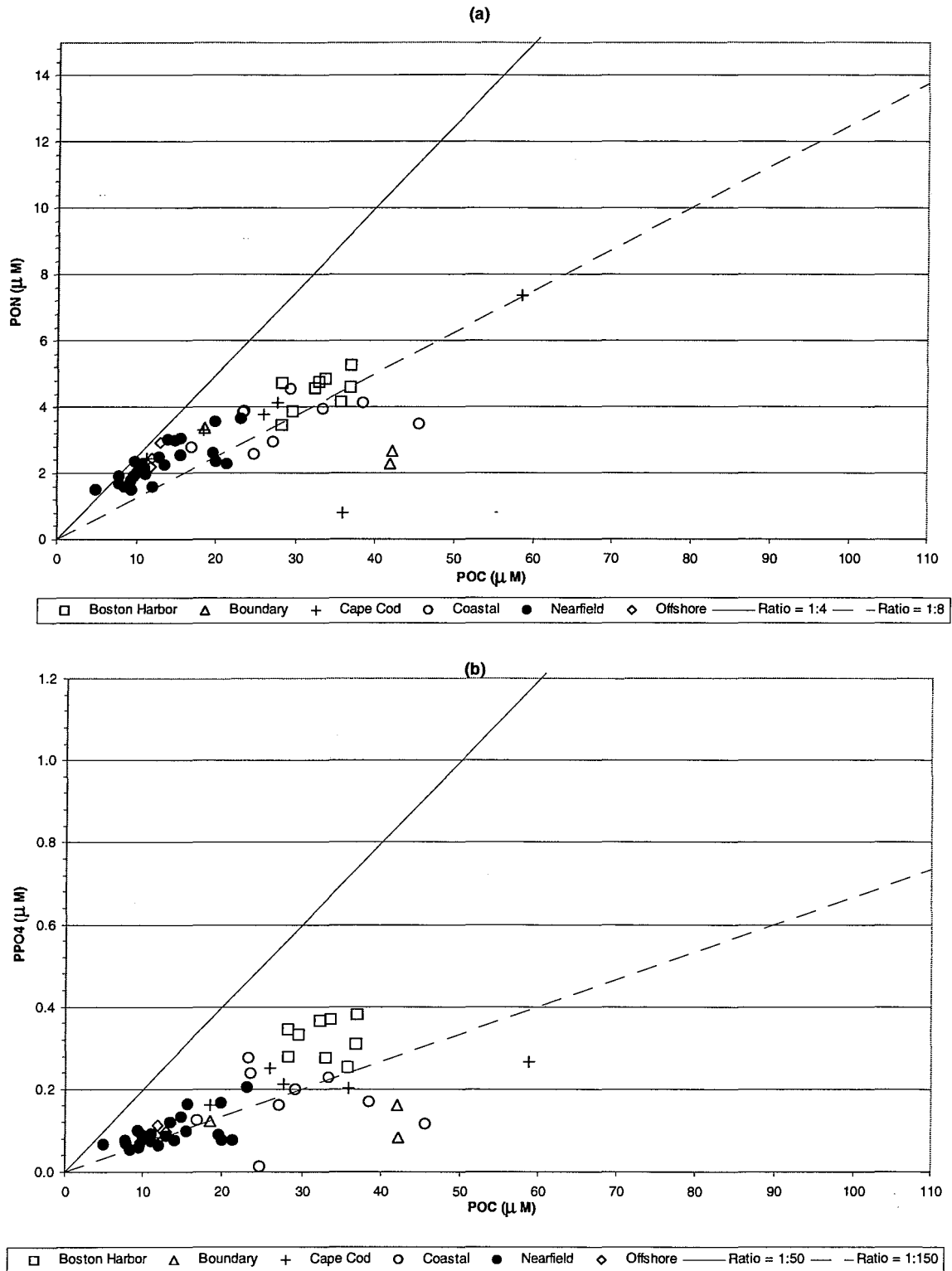


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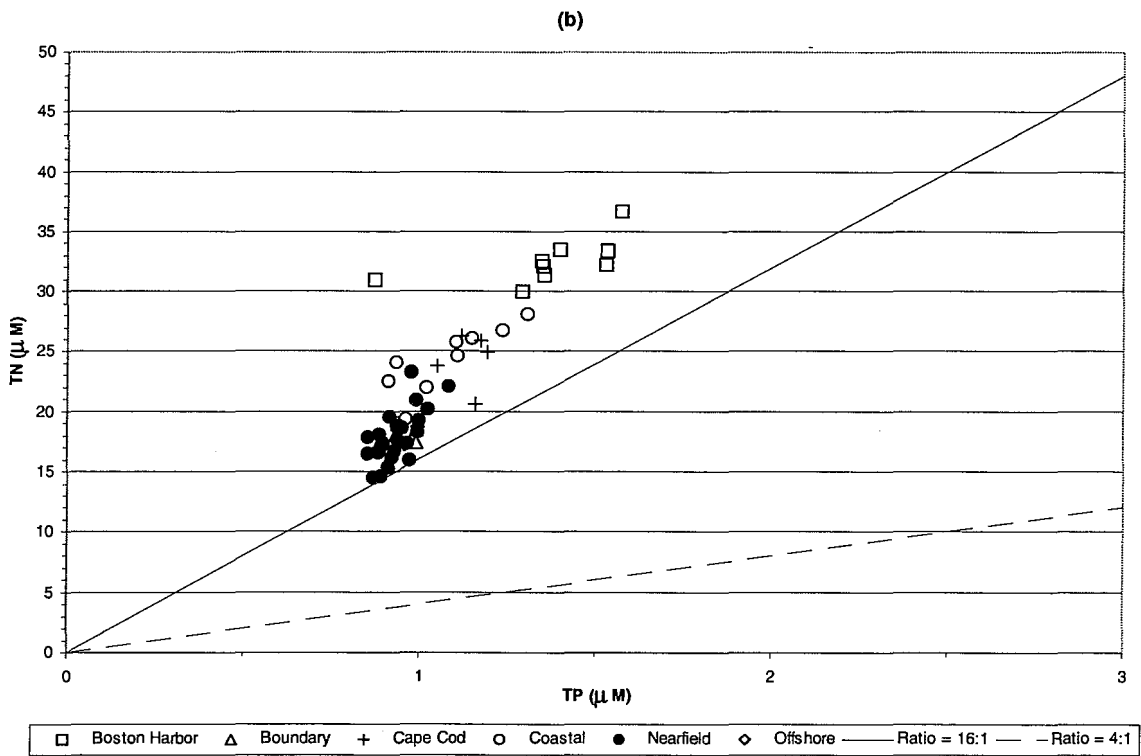
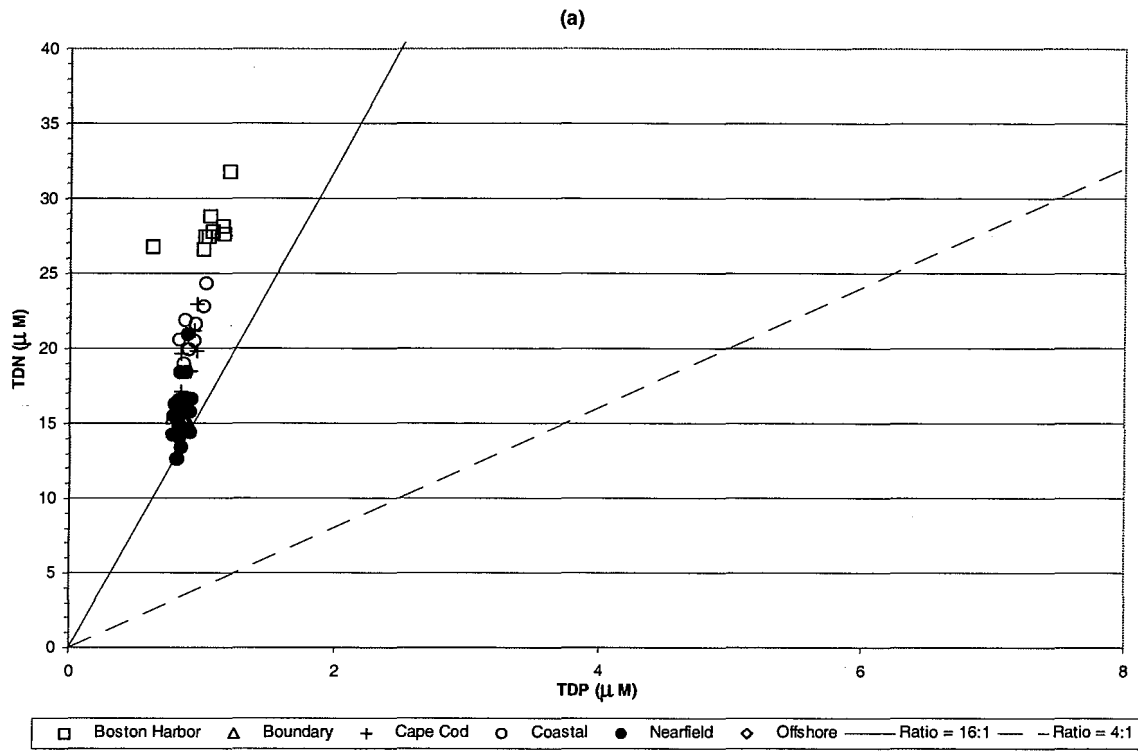


Figure D-26. Nutrient vs. Nutrient Plots for Farfield Survey WF982, (Feb 98)

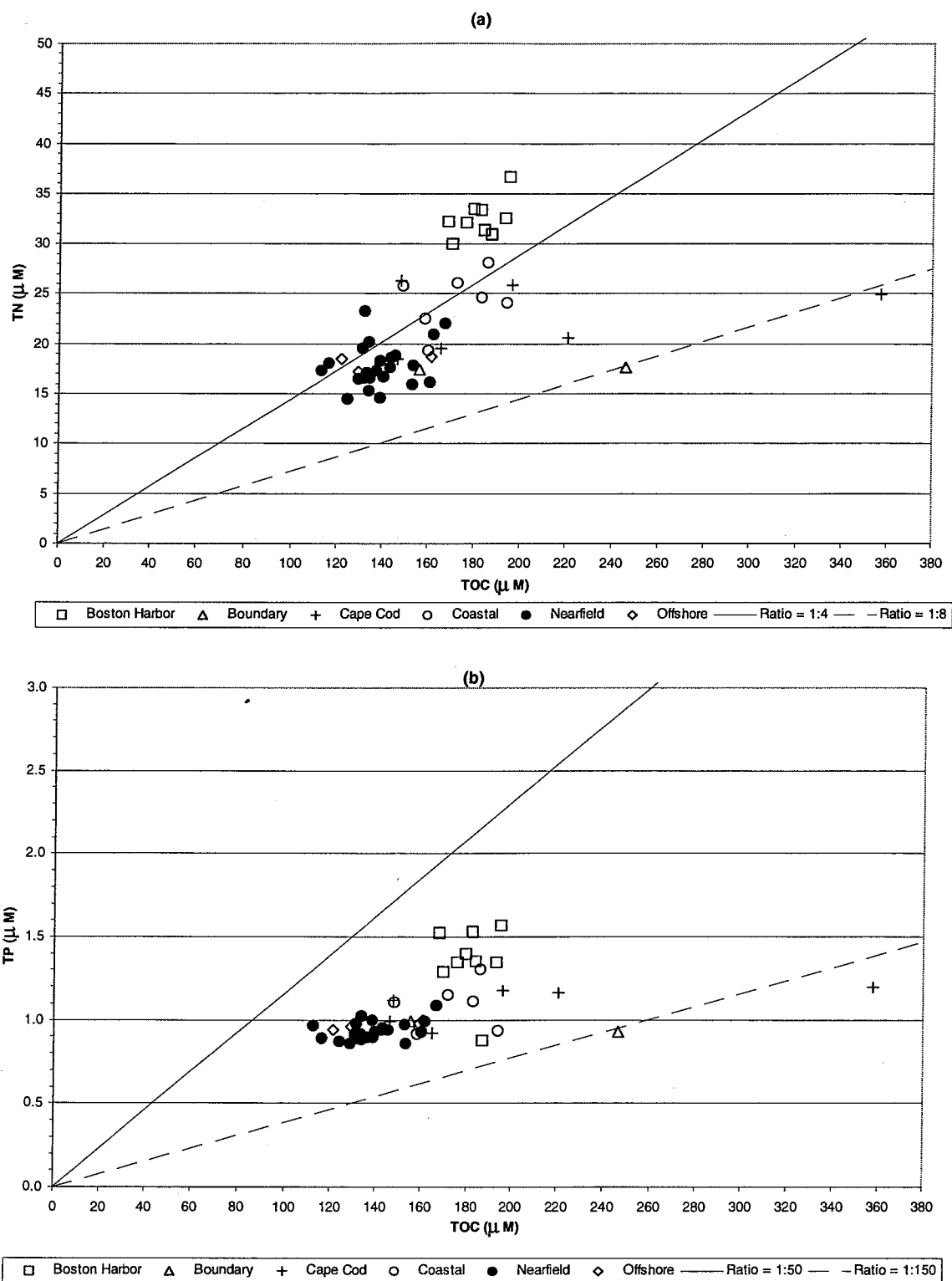


Figure D-27. Nutrient vs. Nutrient Plots for Farfield Survey WF982, (Feb 98)

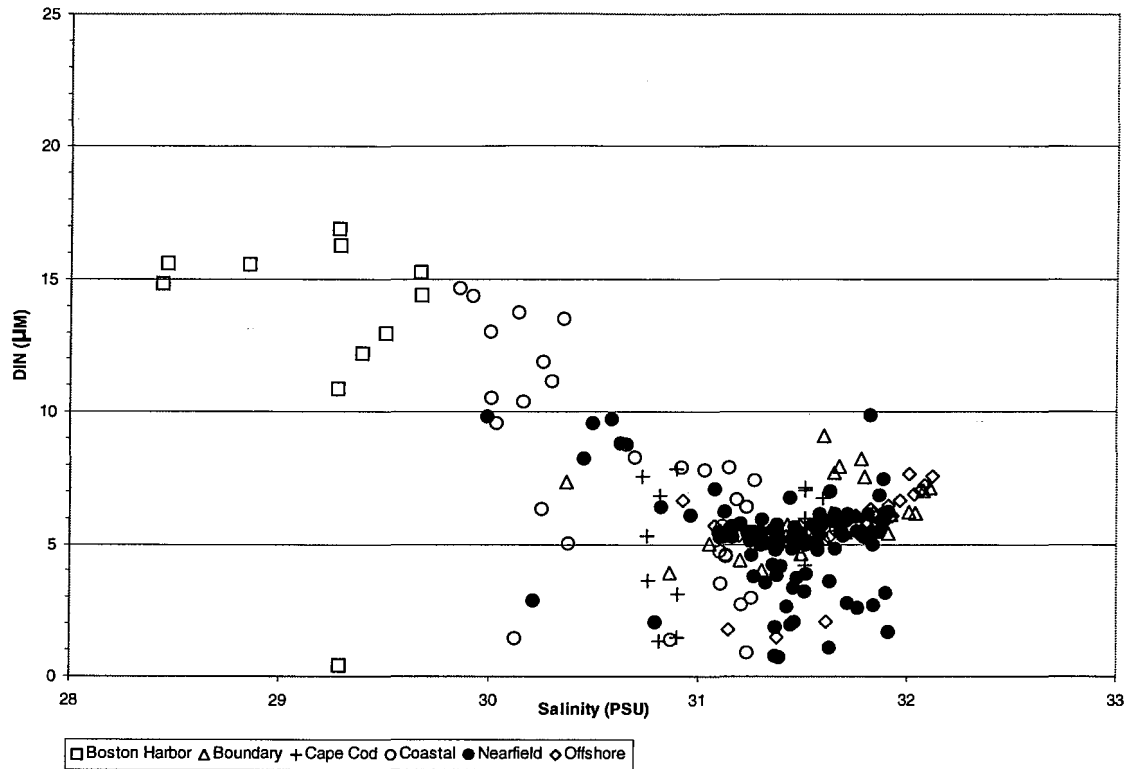


Figure D-28. Nutrient vs. Salinity Plots for Farfield Survey WF982, (Feb 98)

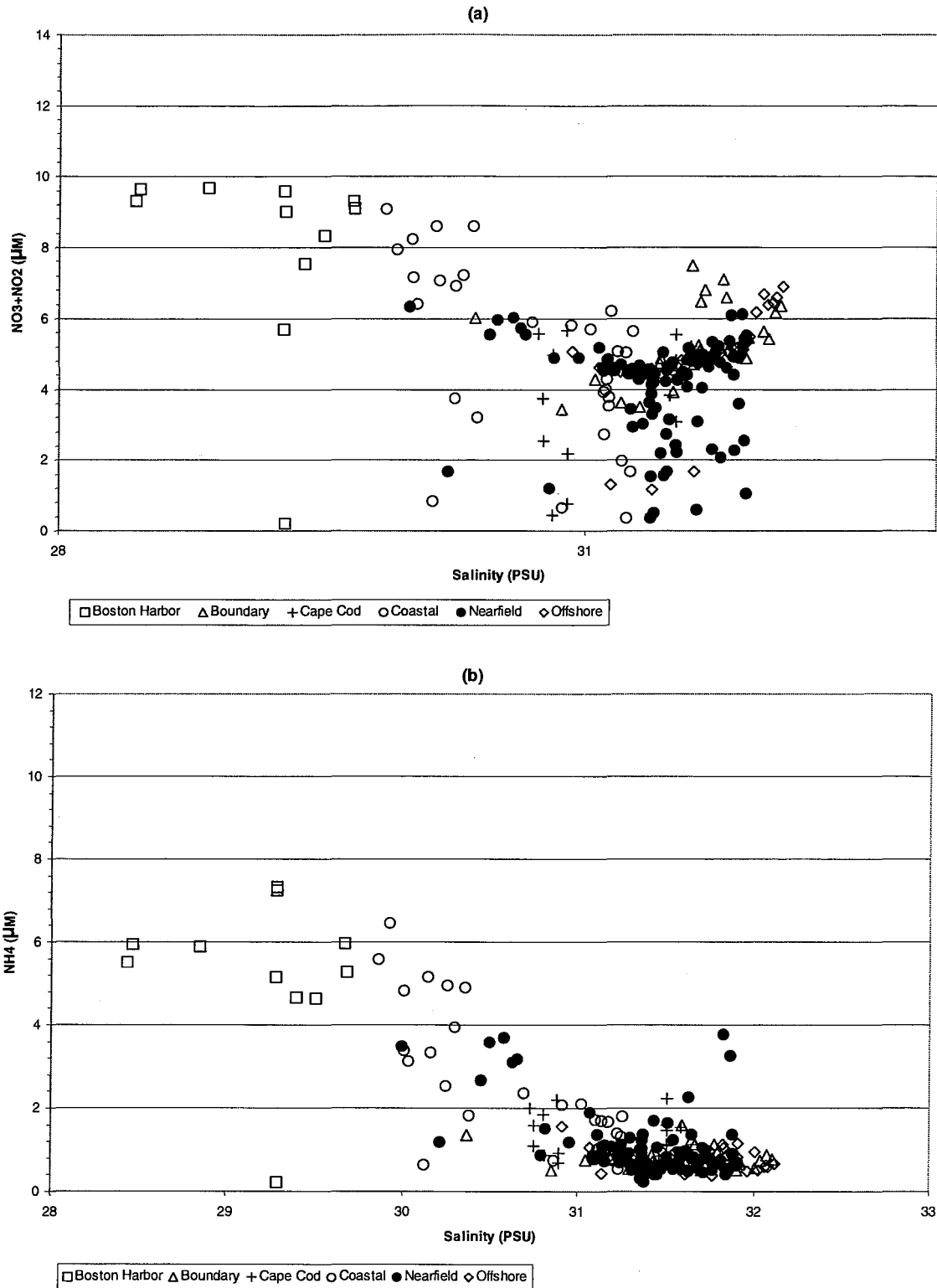


Figure D-29. Nutrient vs. Salinity Plots for Farfield Survey WF982, (Feb 98)

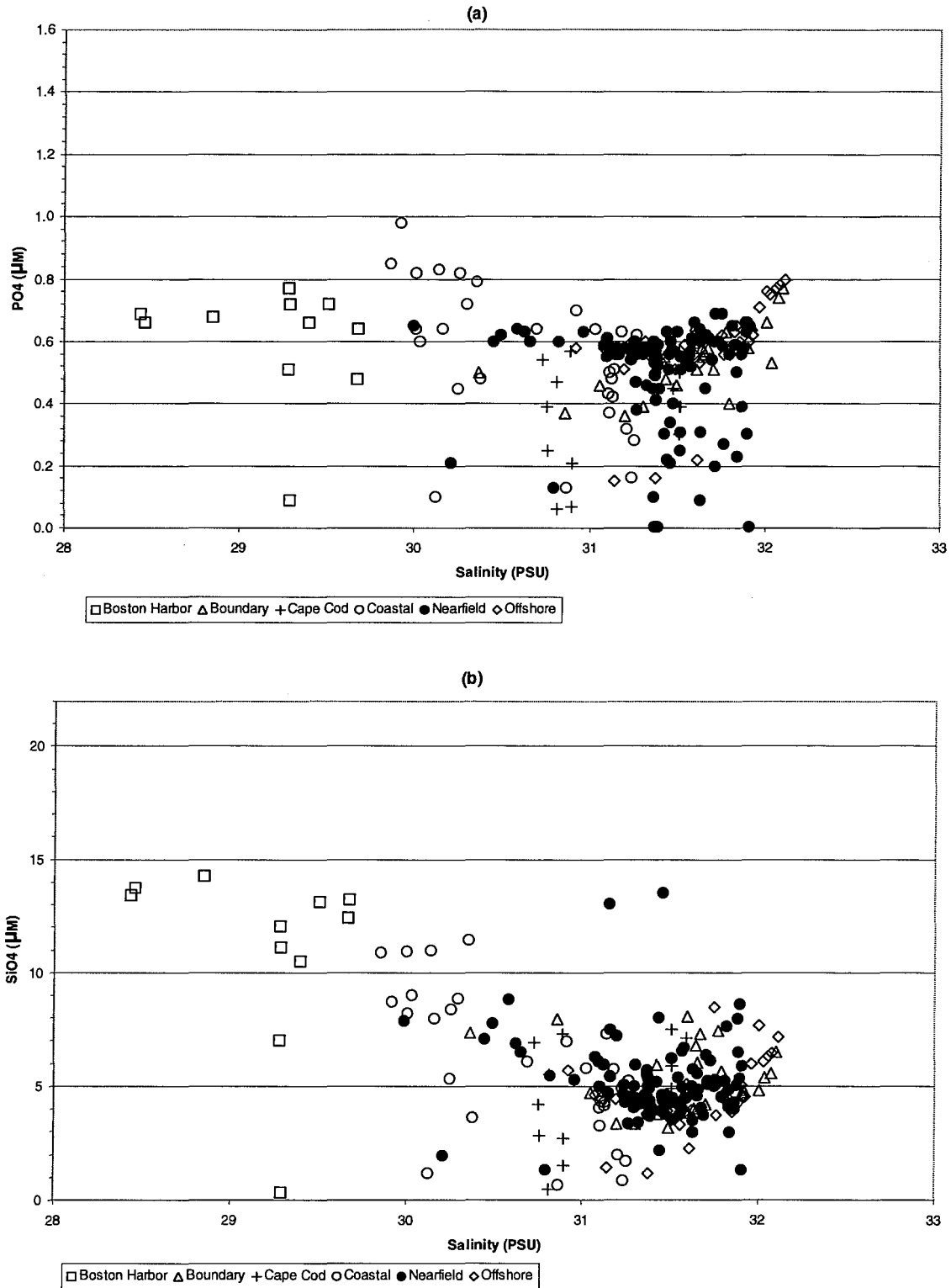


Figure D-30. Nutrient vs. Salinity Plots for Farfield Survey WF982, (Feb 98)

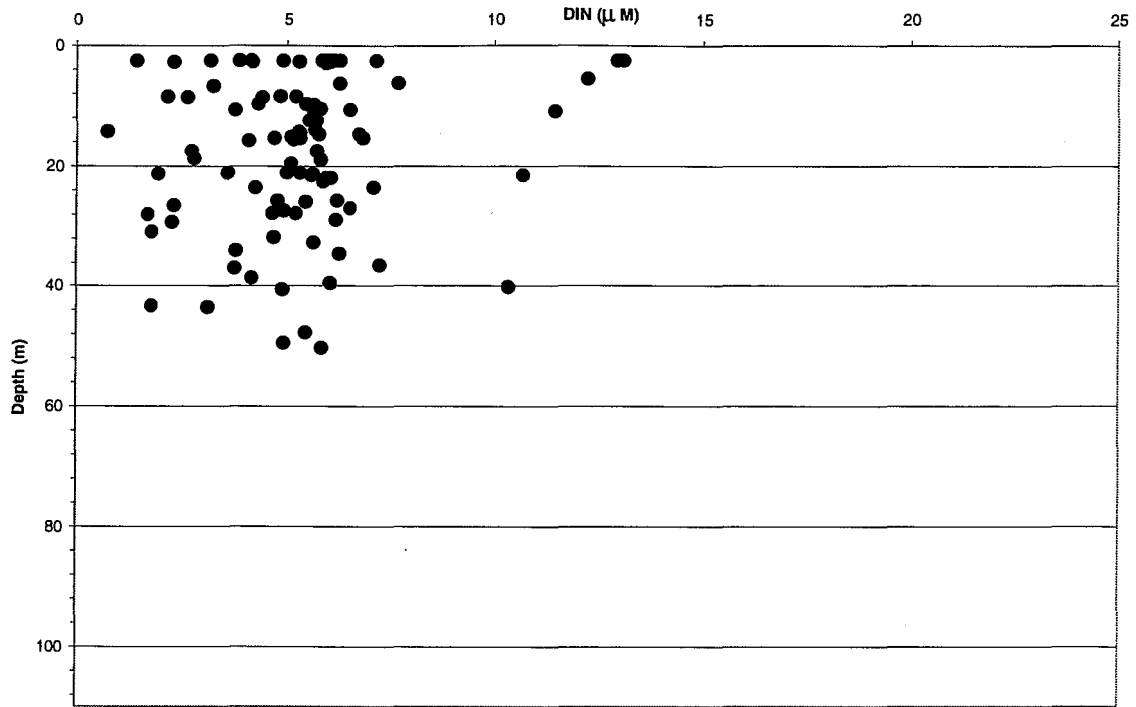


Figure D-31. Depth vs. Nutrient Plots for Nearfield Survey WN983, (Mar 98)

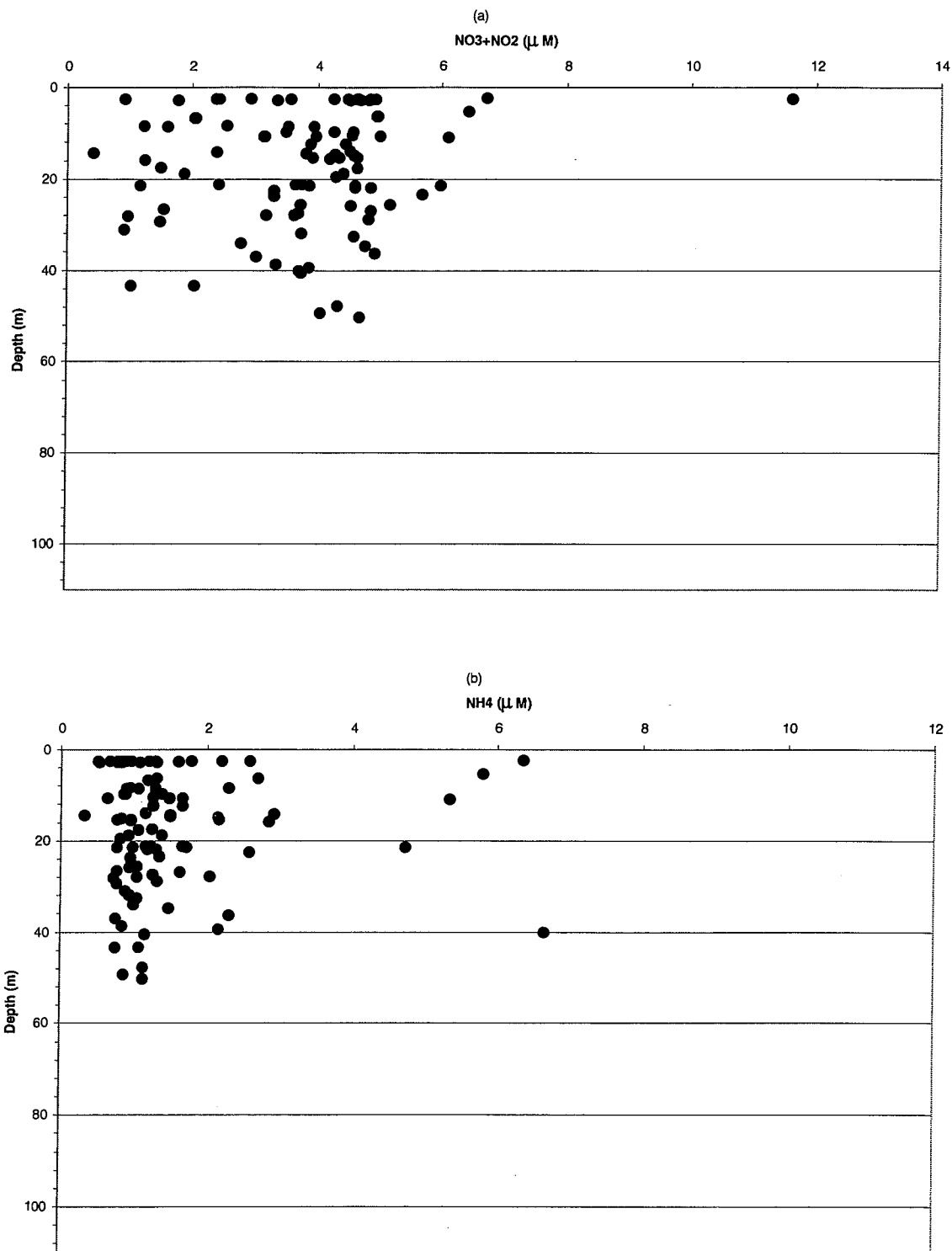


Figure D-32. Depth vs. Nutrient Plots for Nearfield Survey WN983, (Mar 98)

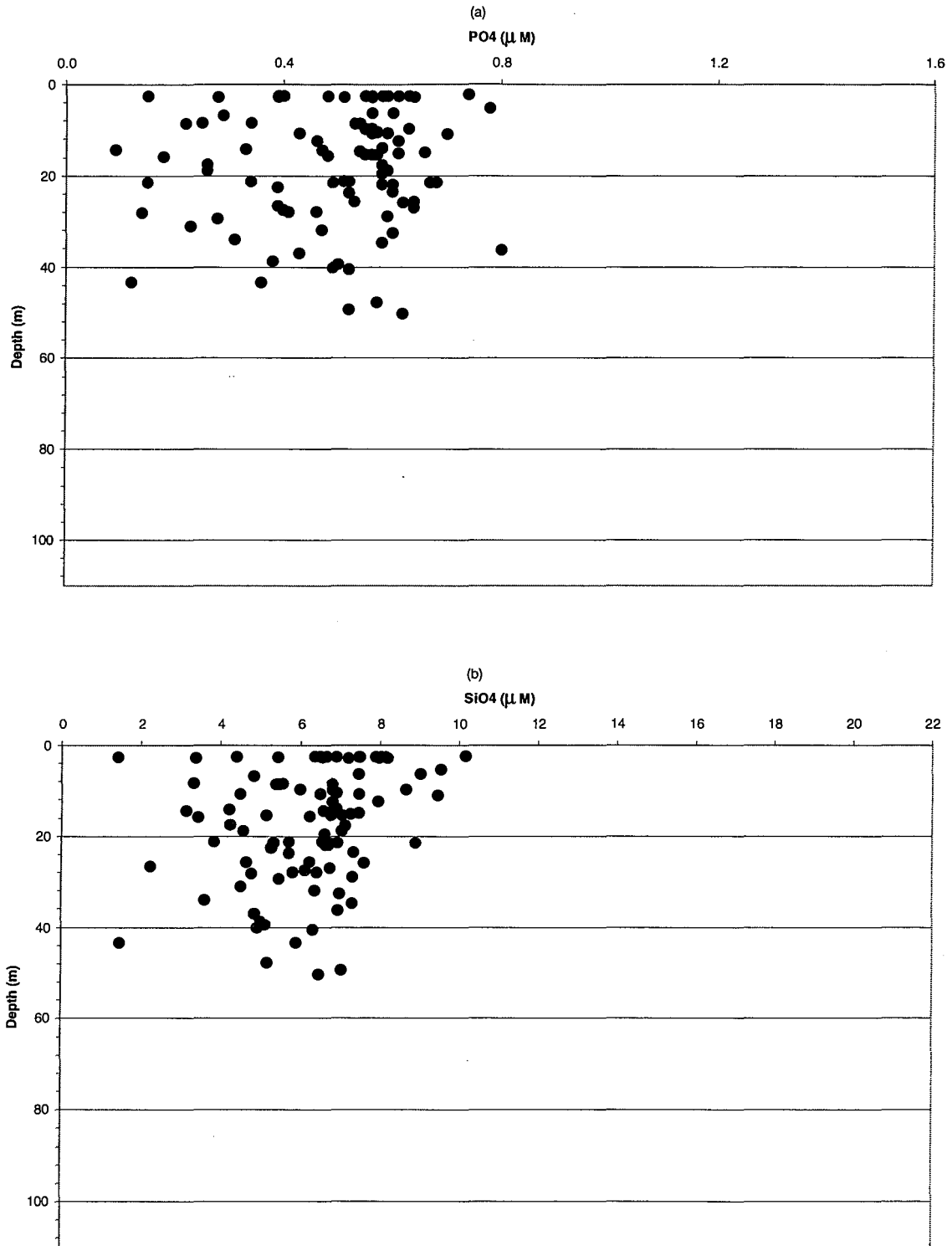


Figure D-33. Depth vs. Nutrient Plots for Nearfield Survey WN983, (Mar 98)

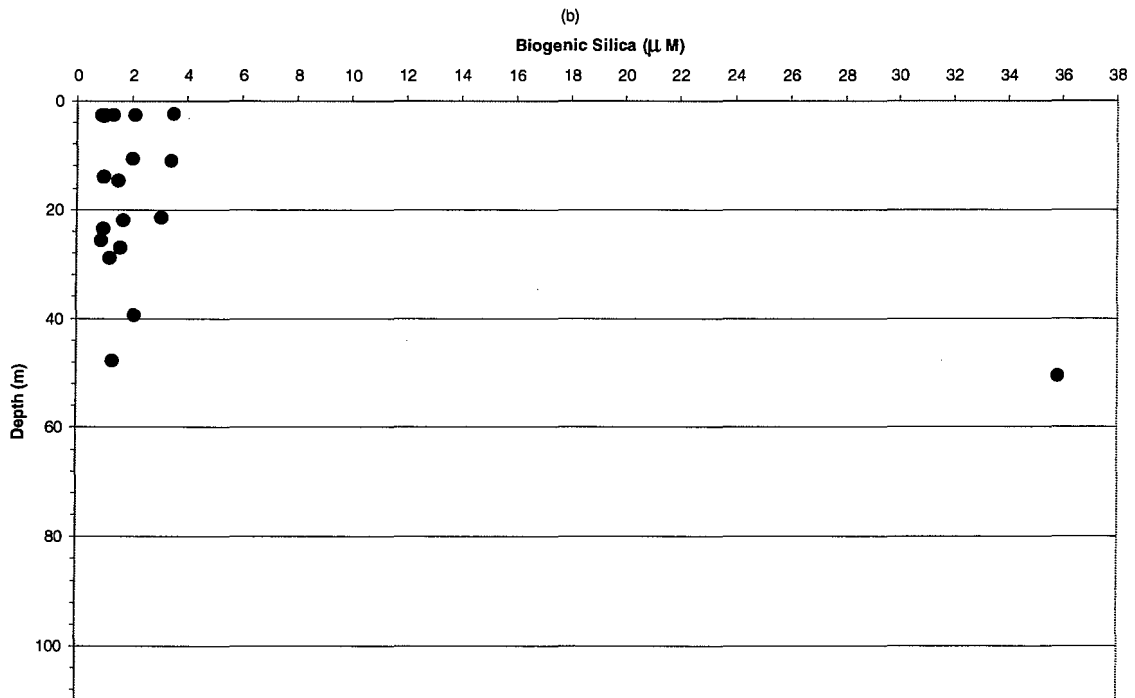
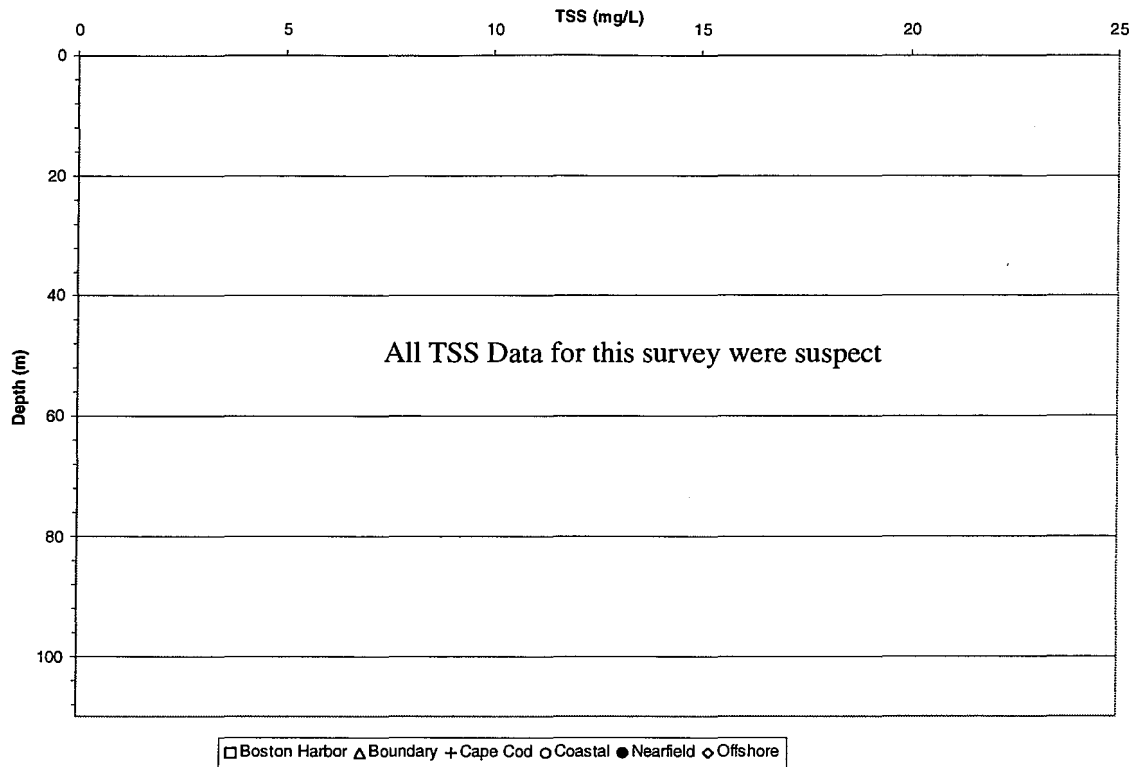


Figure D-34. Depth vs. Nutrient Plots for Nearfield Survey WN983, (Mar 98)

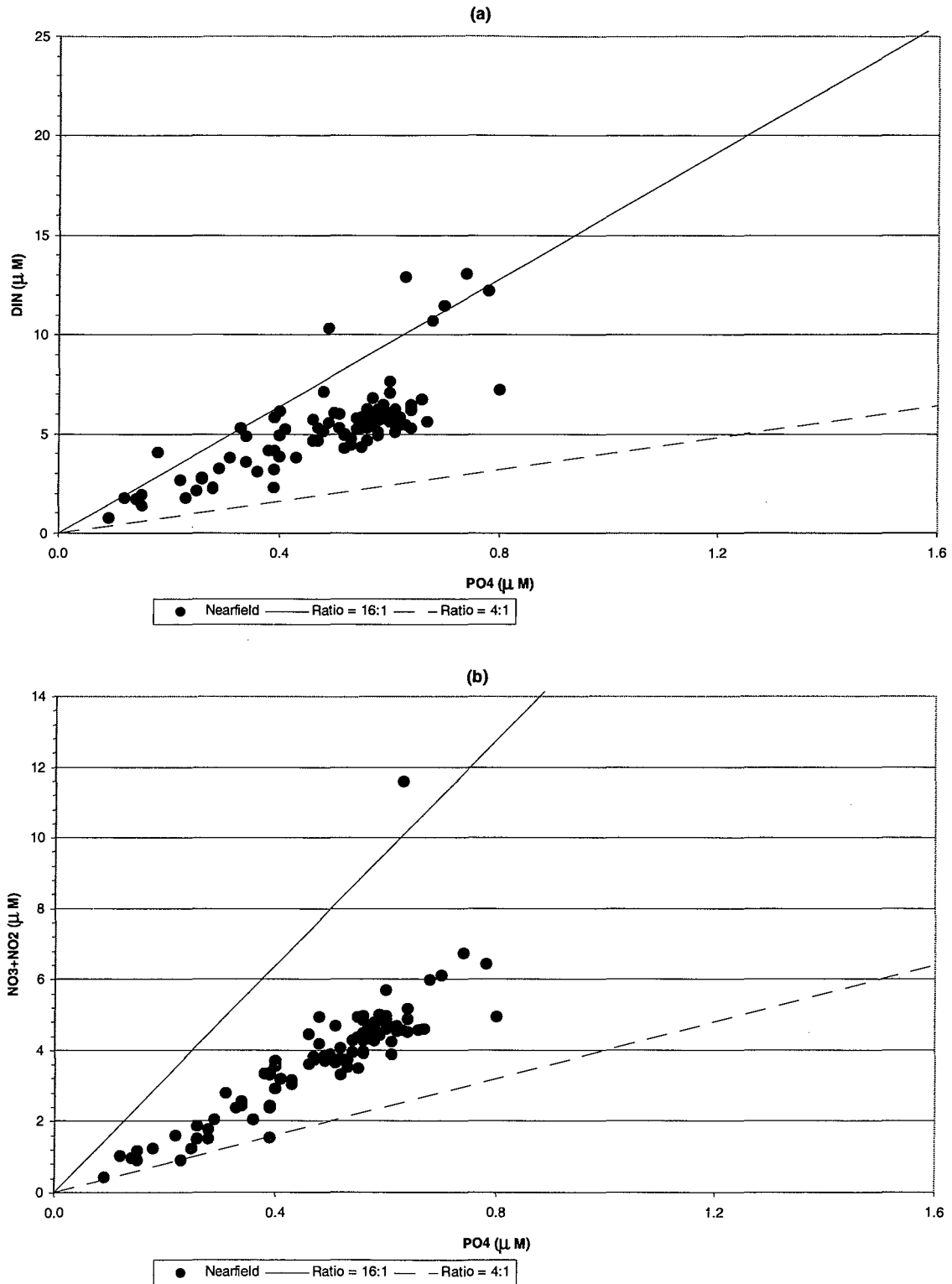


Figure D-35. Nutrient vs. Nutrient Plots for Nearfield Survey WN983, (Mar 98)

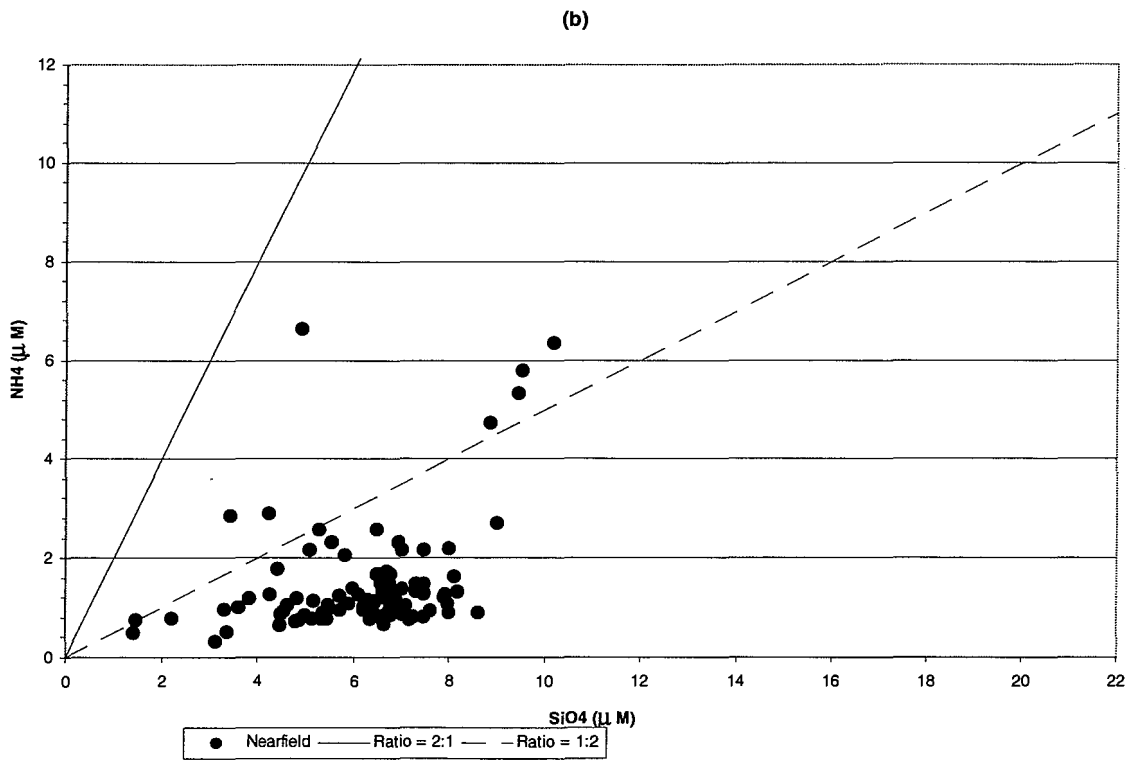
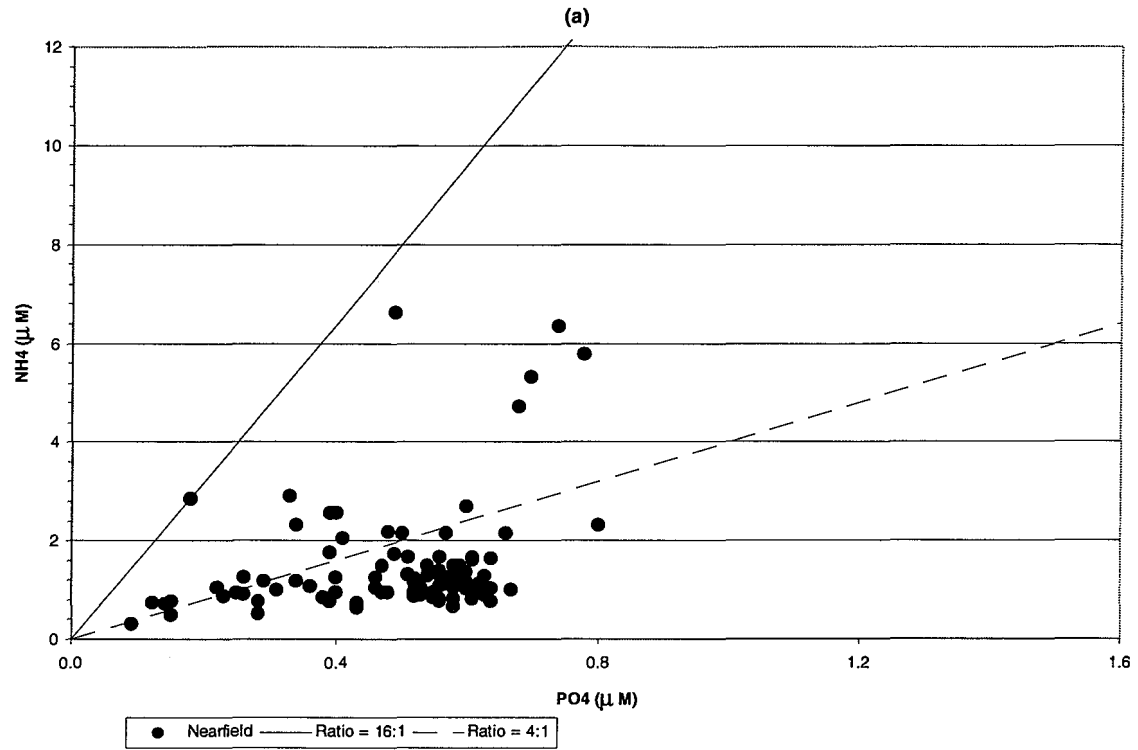


Figure D-36. Nutrient vs. Nutrient Plots for Nearfield Survey WN983, (Mar 98)

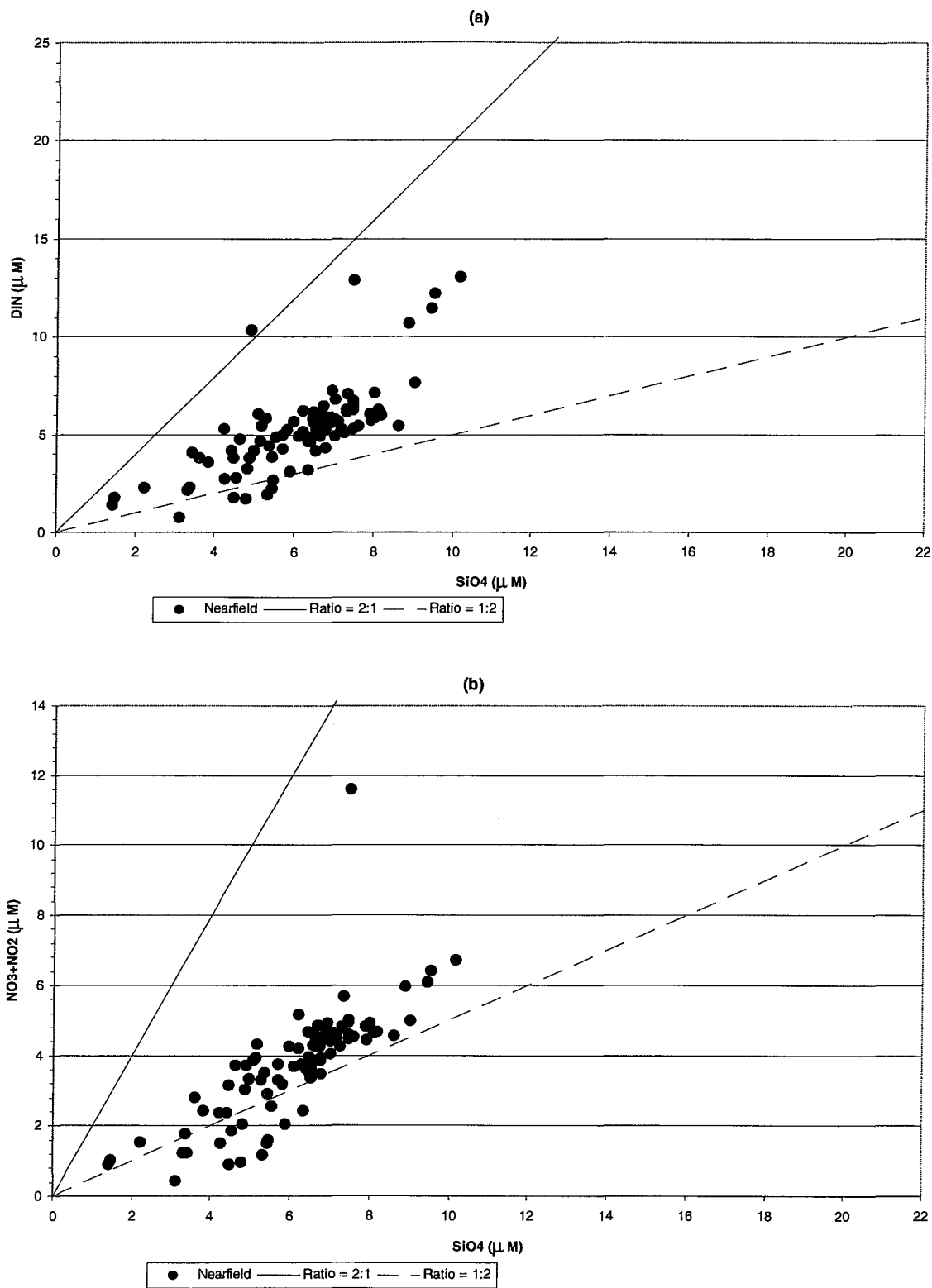


Figure D-37. Nutrient vs. Nutrient Plots for Nearfield Survey WN983, (Mar 98)

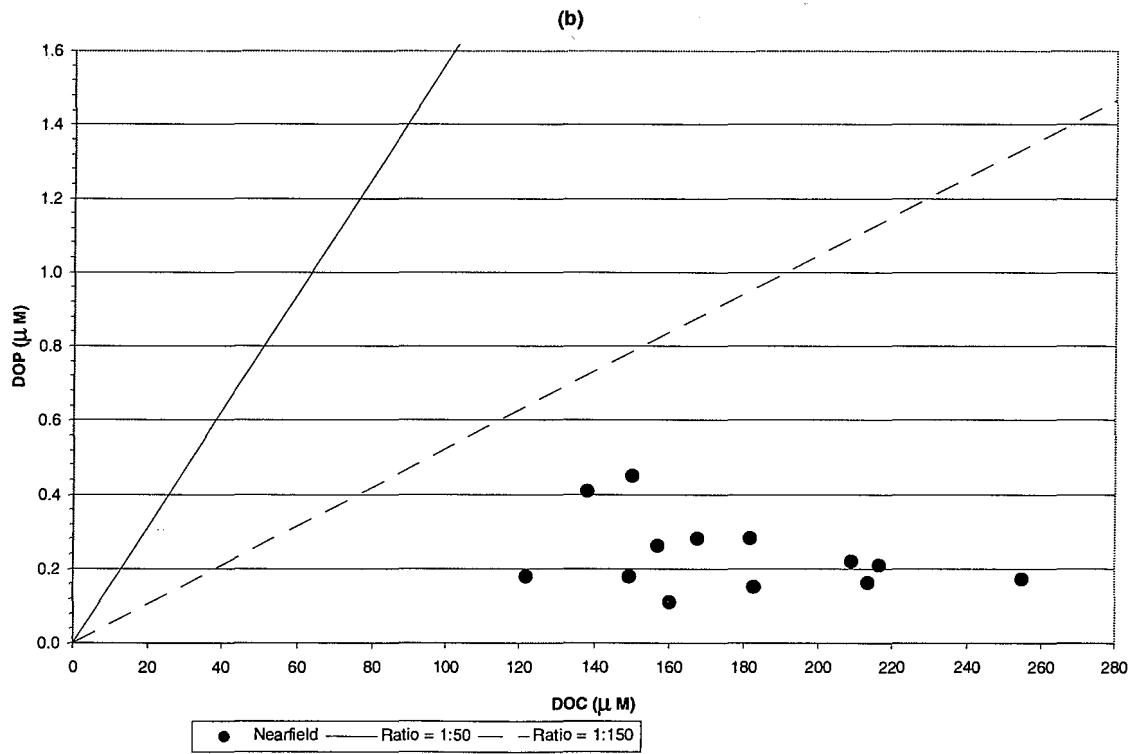
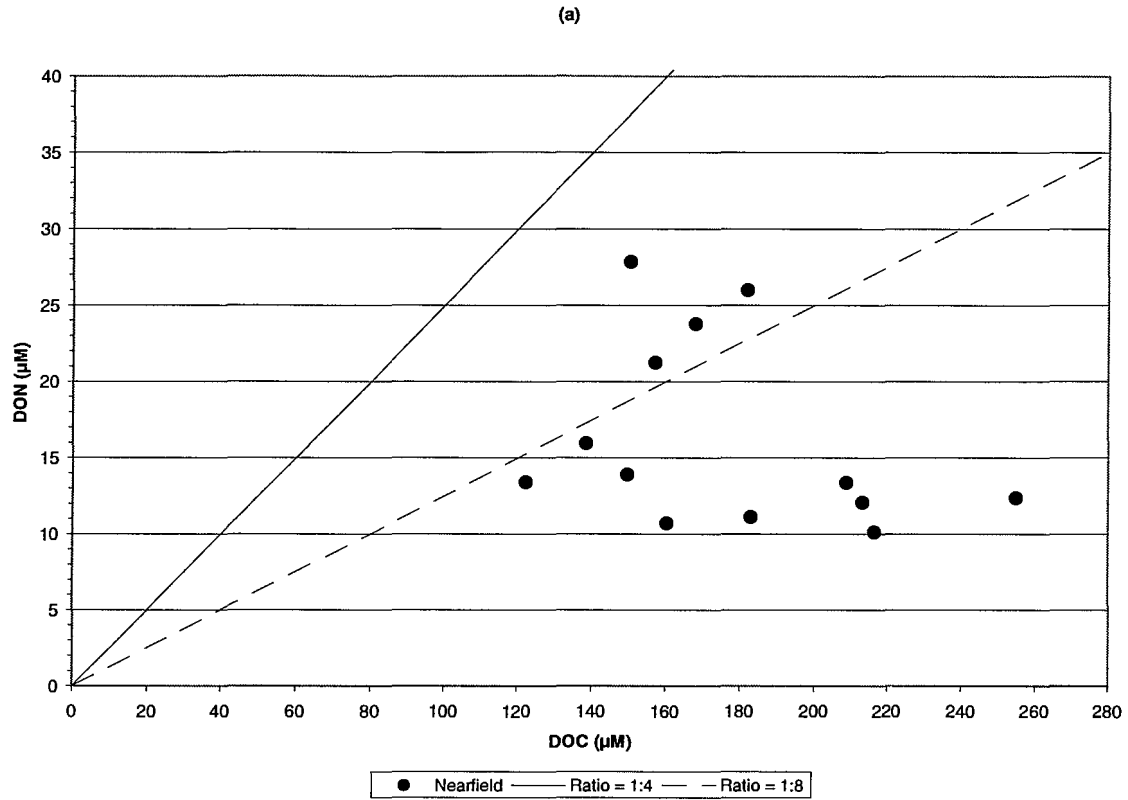


Figure D-38. Nutrient vs. Nutrient Plots for Nearfield Survey WN983, (Mar 98)

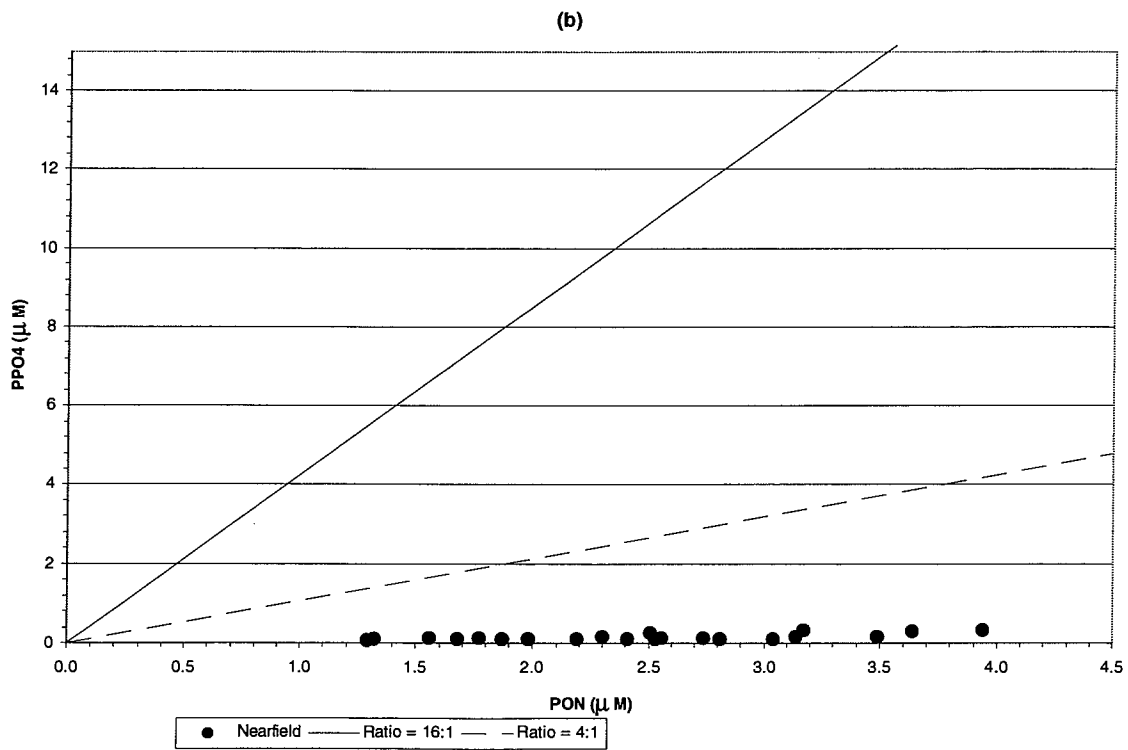
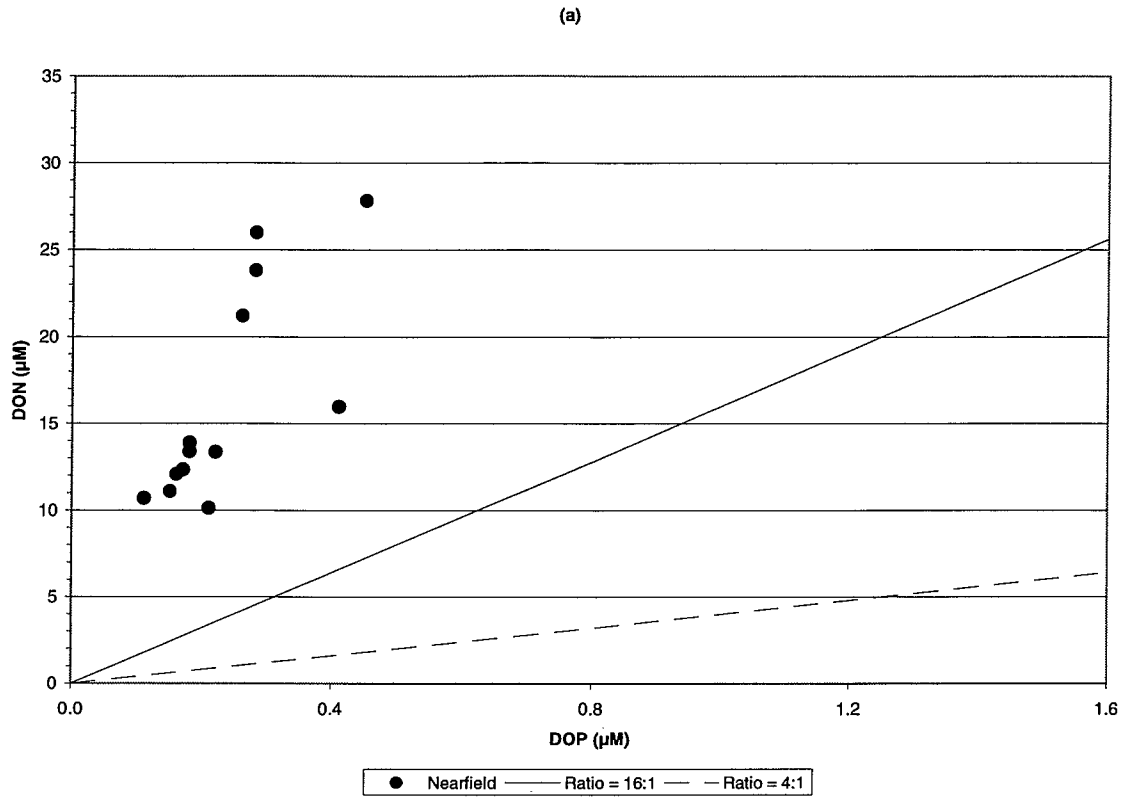


Figure D-39. Nutrient vs. Nutrient Plots for Nearfield Survey WN983, (Mar 98)

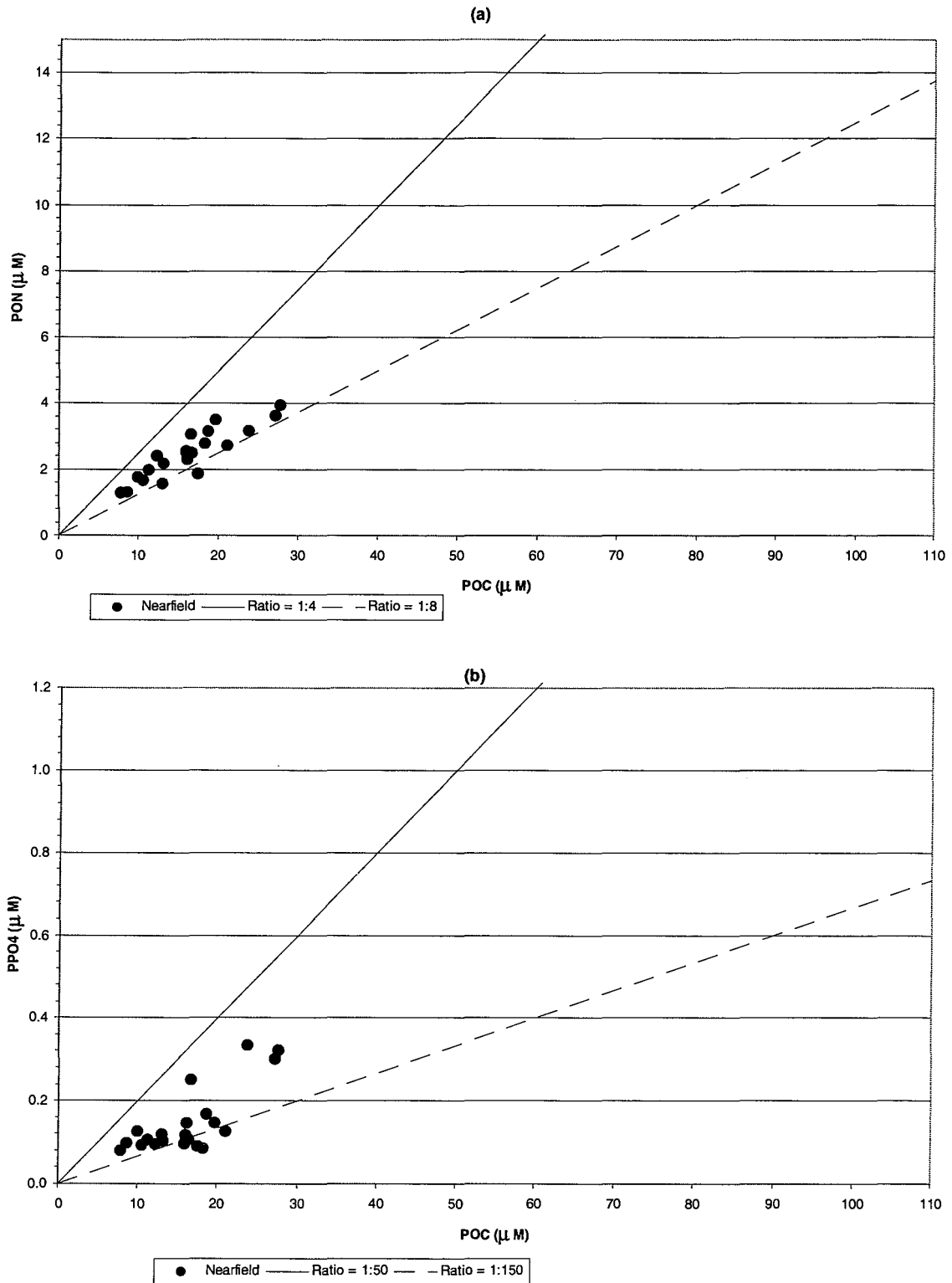


Figure D-40. Nutrient vs. Nutrient Plots for Nearfield Survey WN983, (Mar 98)

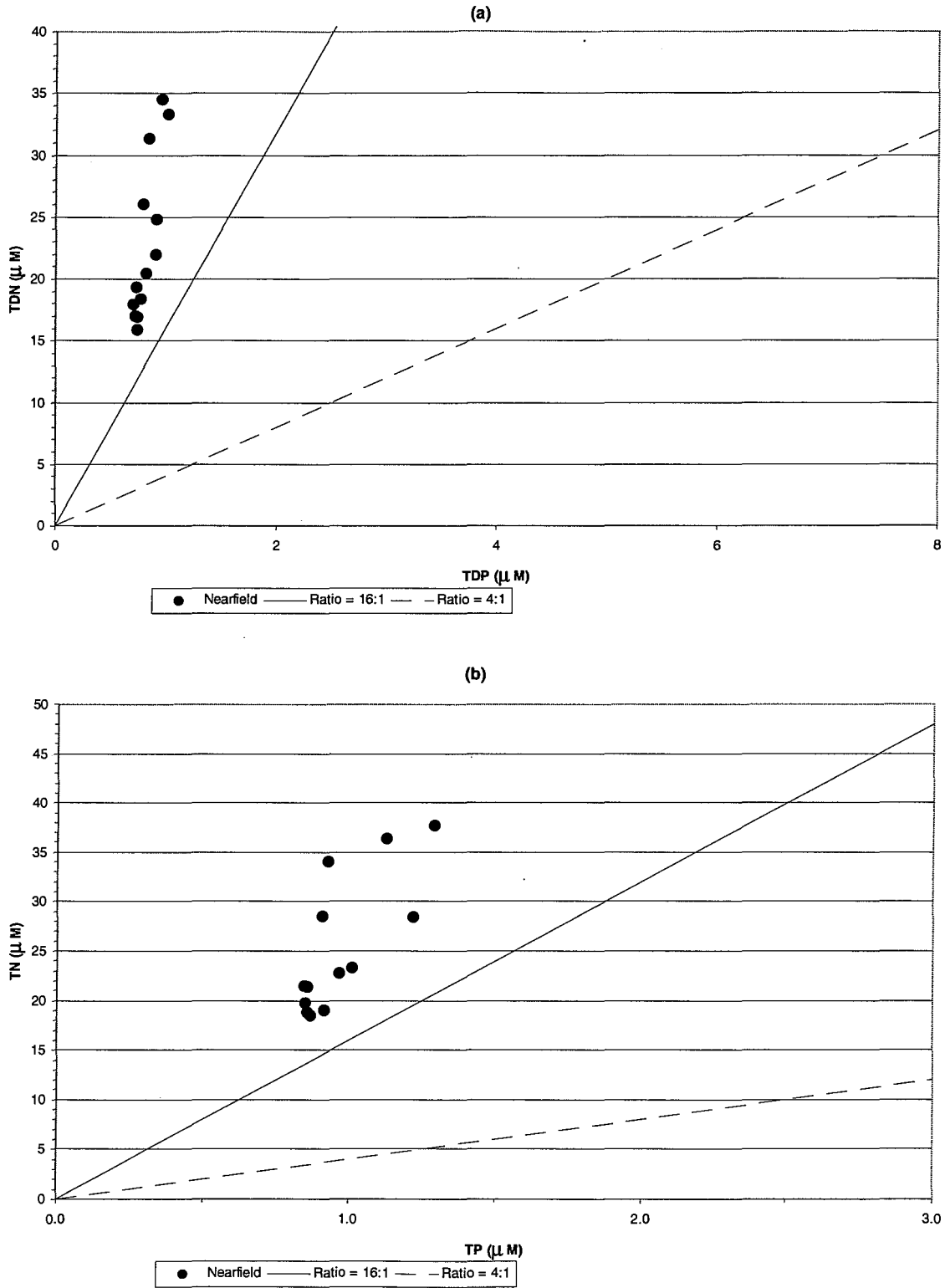


Figure D-41. Nutrient vs. Nutrient Plots for Nearfield Survey WN983, (Mar 98)

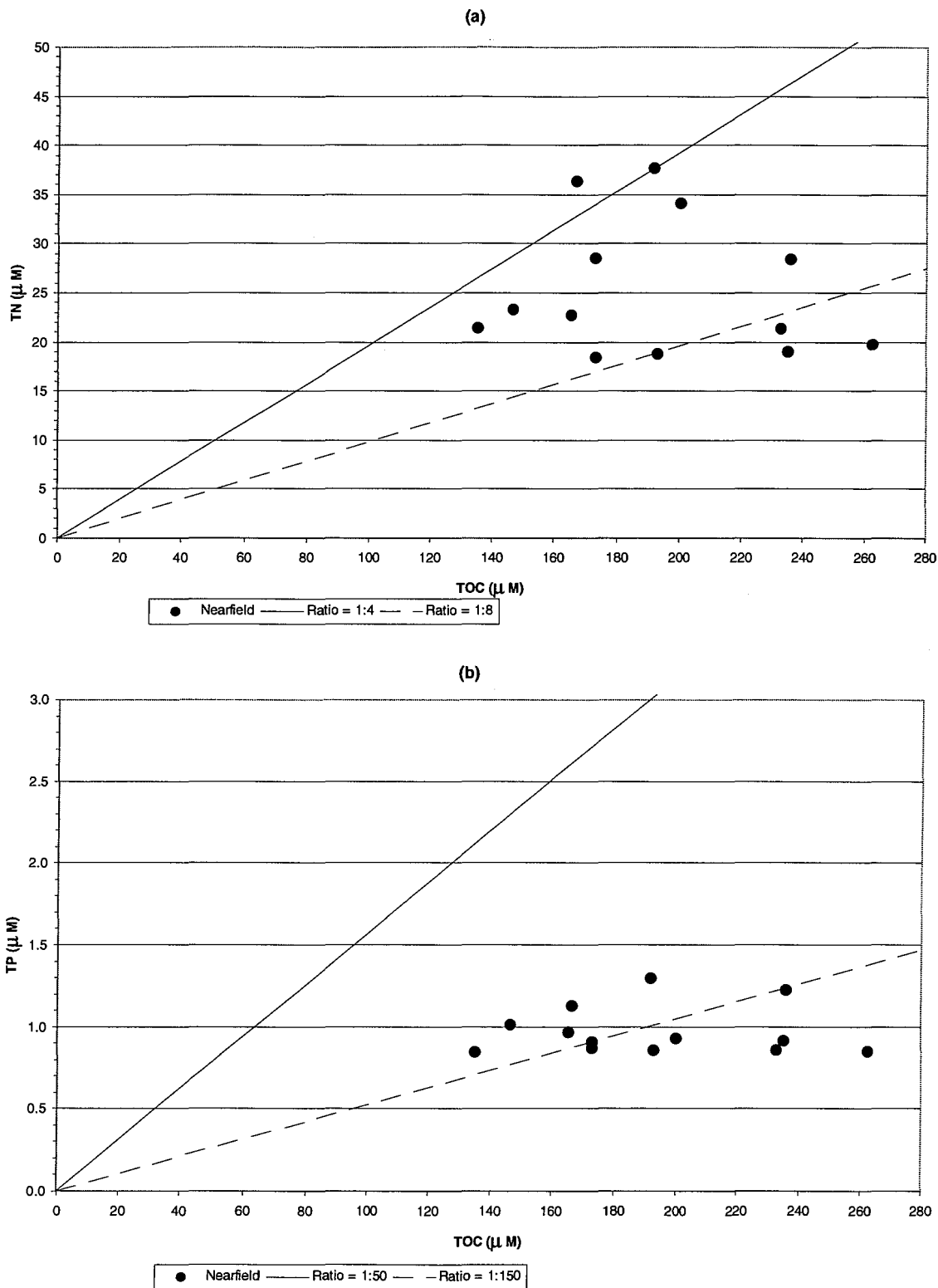


Figure D-42. Nutrient vs. Nutrient Plots for Nearfield Survey WN983, (Mar 98)

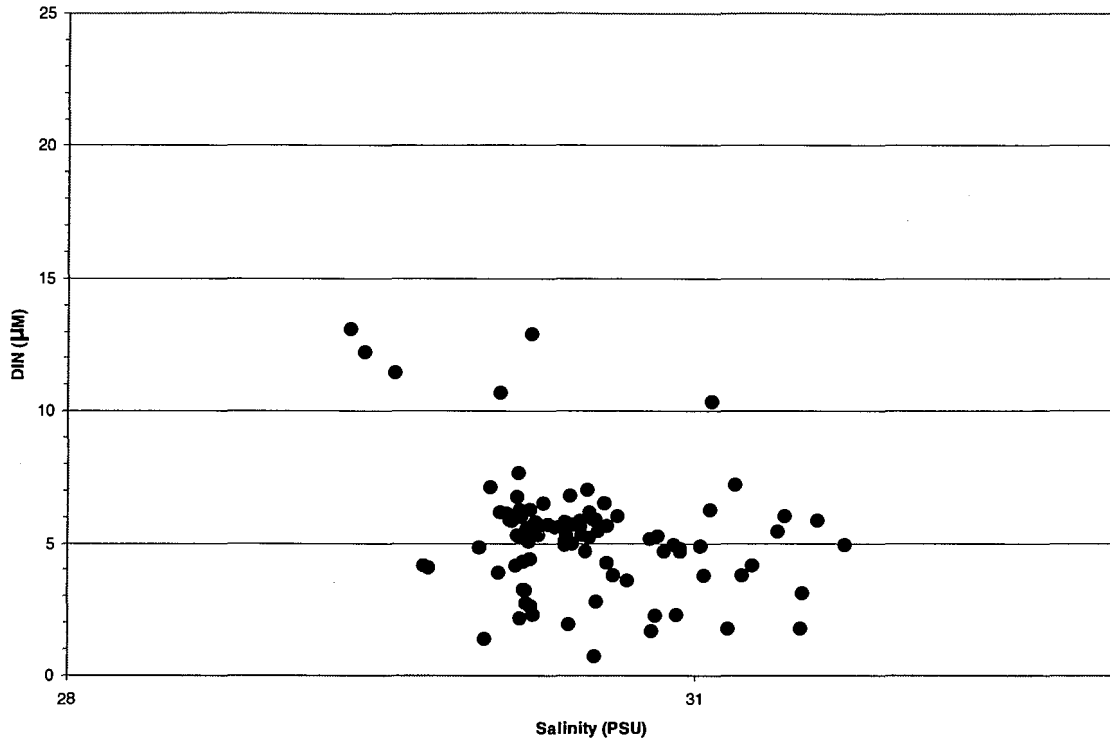


Figure D-43. Nutrient vs. Salinity Plots for Nearfield Survey WN983, (Mar 98)

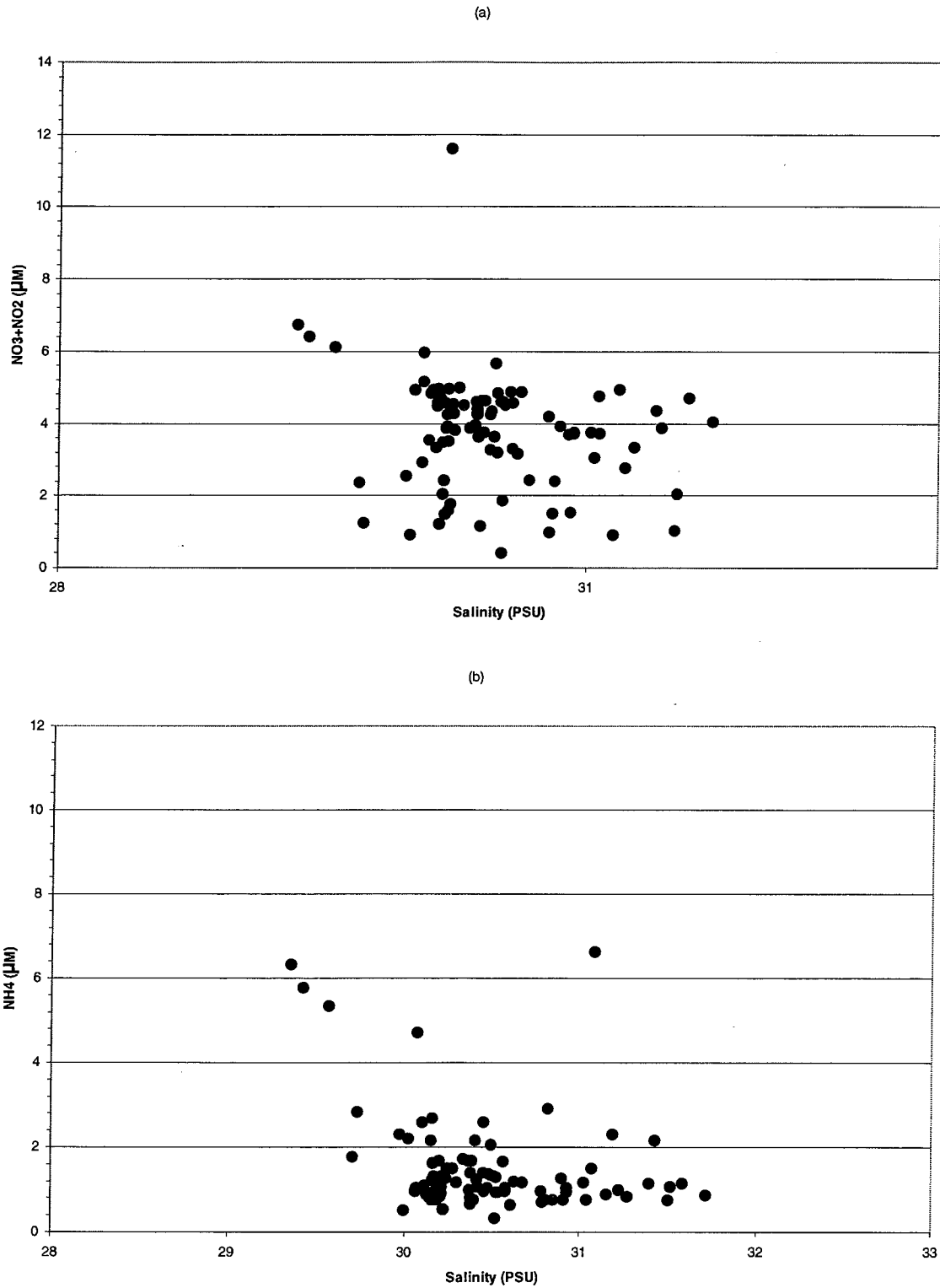


Figure D-44. Nutrient vs. Salinity Plots for Nearfield Survey WN983, (Mar 98)

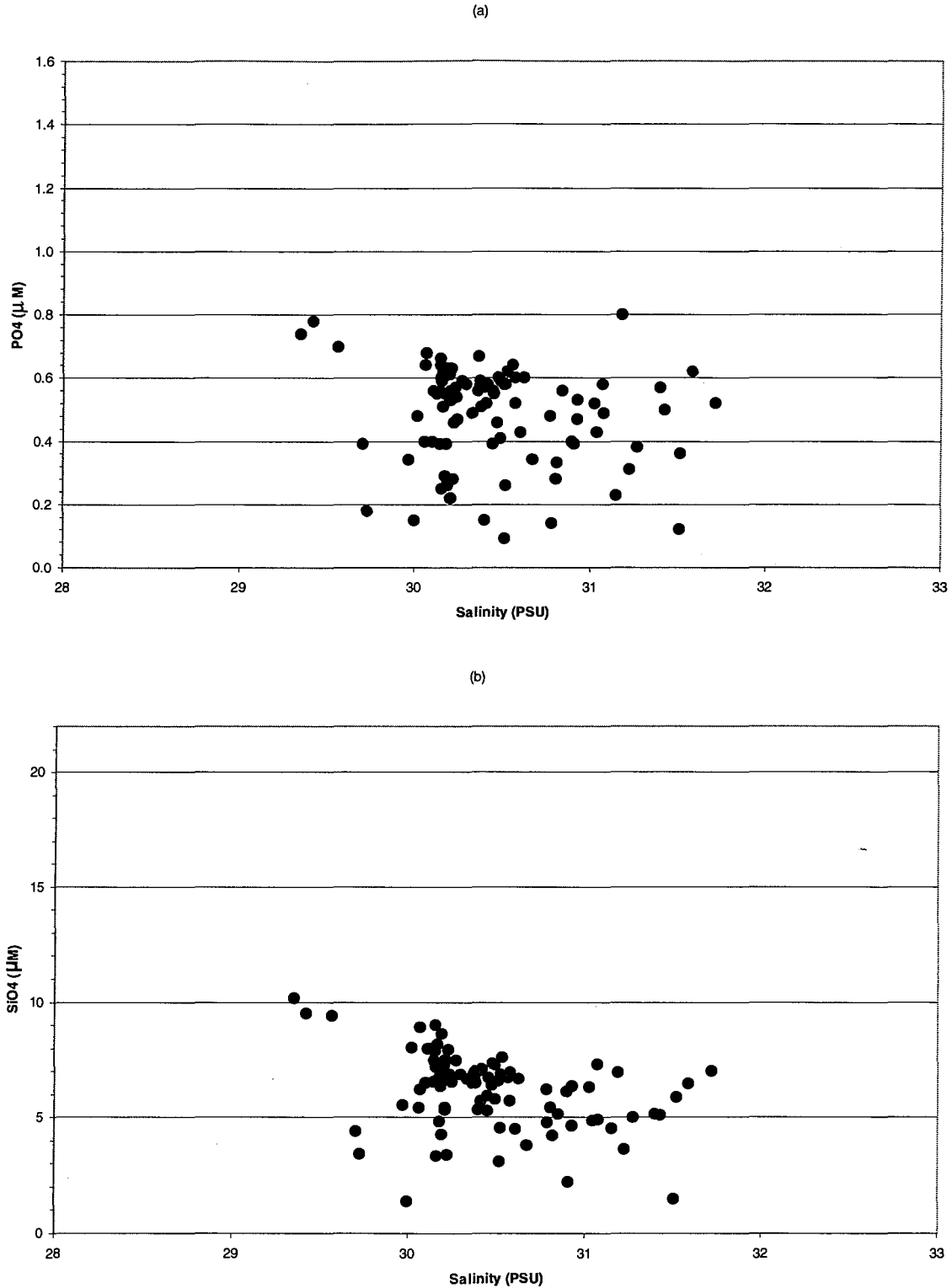


Figure D-45. Nutrient vs. Salinity Plots for Nearfield Survey WN983, (Mar 98)

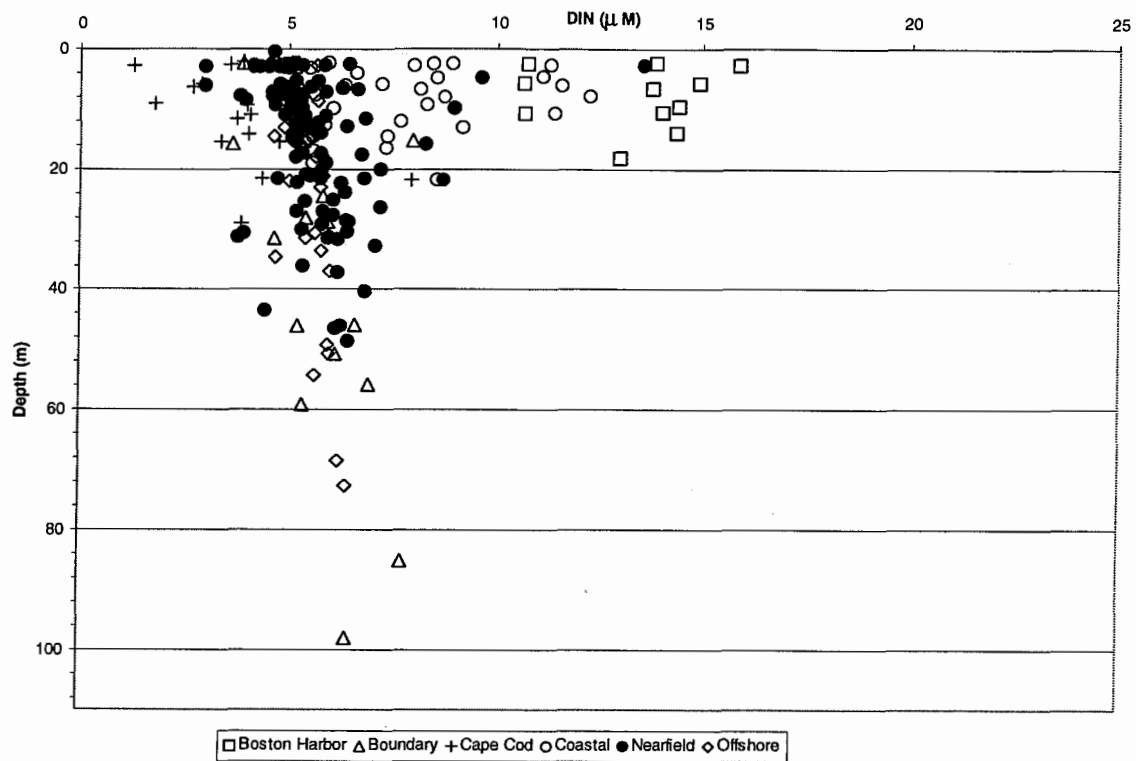


Figure D-46. Depth vs. Nutrient Plots for Farfield Survey WF984, (Apr 98)

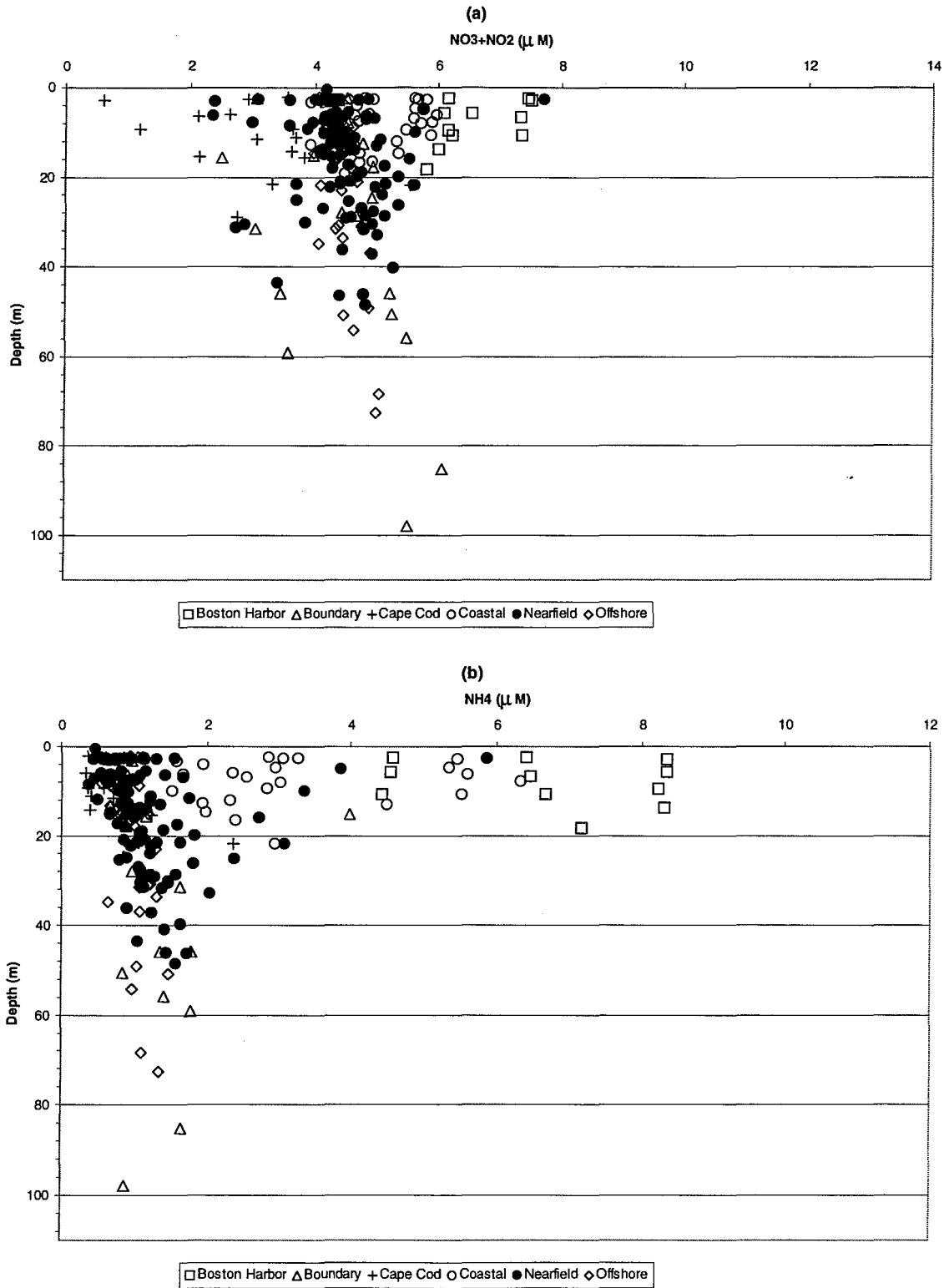


Figure D-47. Depth vs. Nutrient Plots for Farfield Survey WF984, (Apr 98)

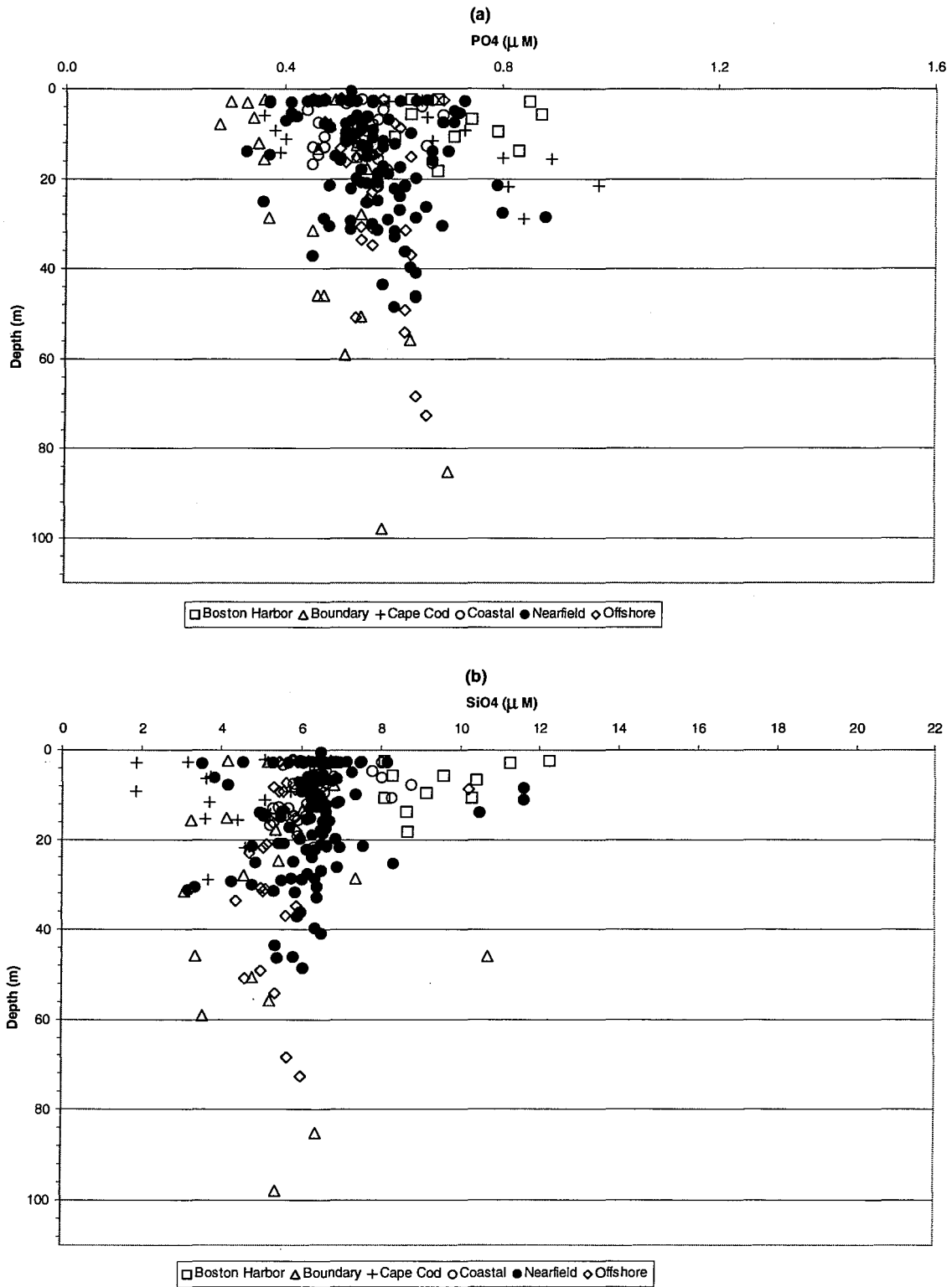


Figure D-48. Depth vs. Nutrient Plots for Farfield Survey WF984, (Apr 98)

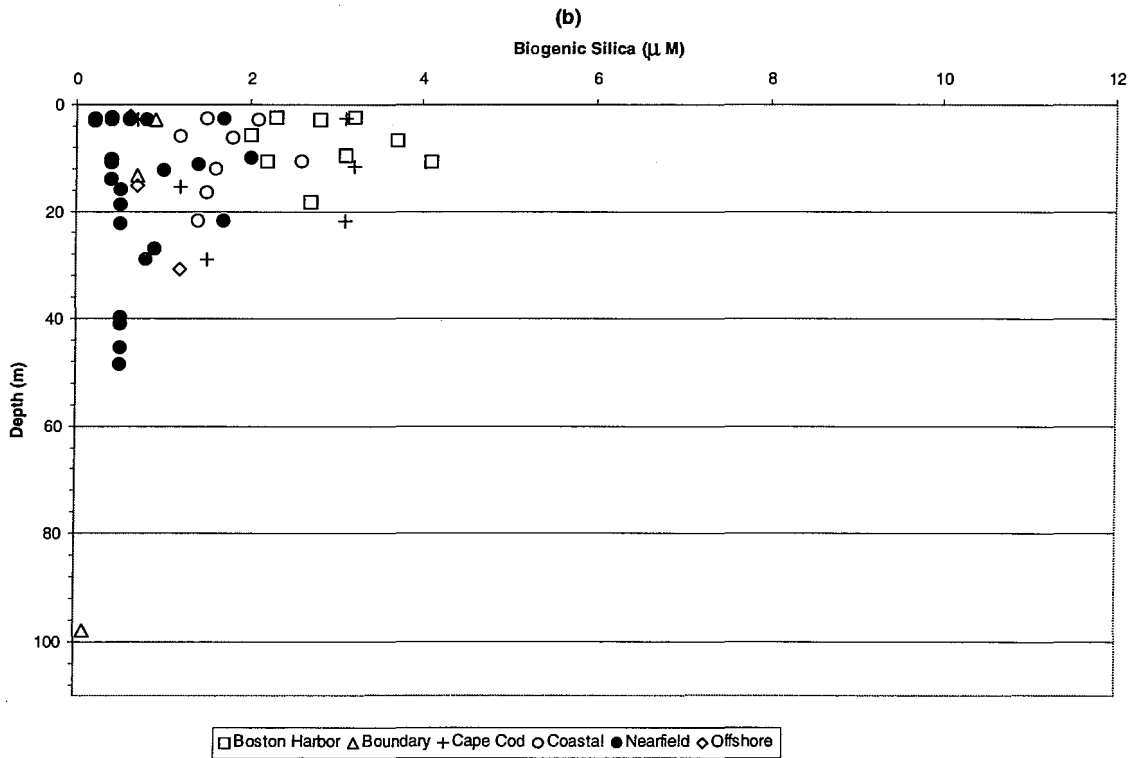
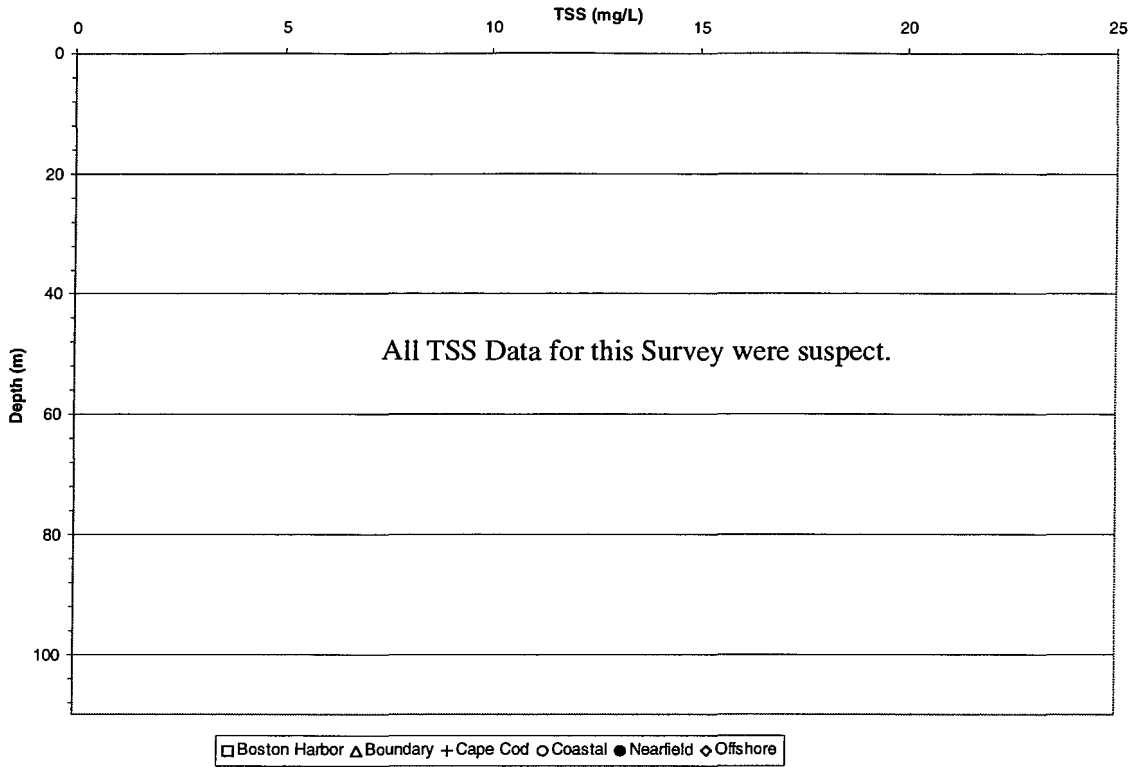


Figure D-49. Depth vs. Nutrient Plots for Farfield Survey WF984, (Apr 98)

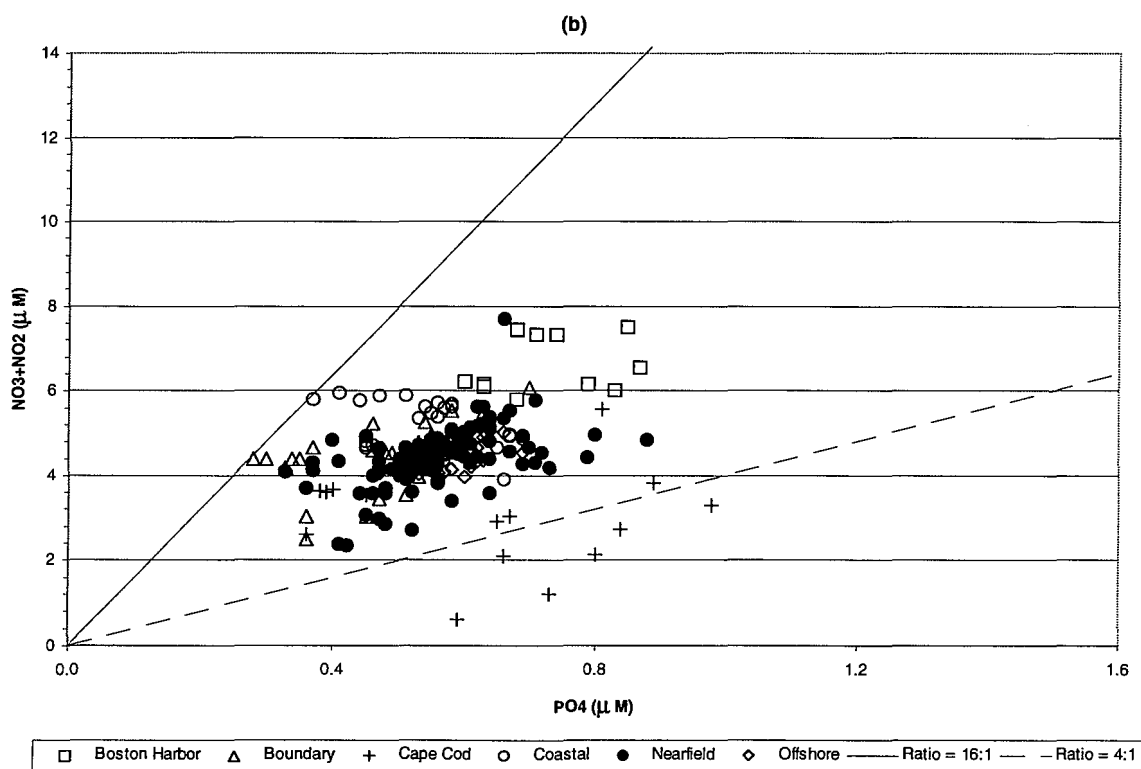
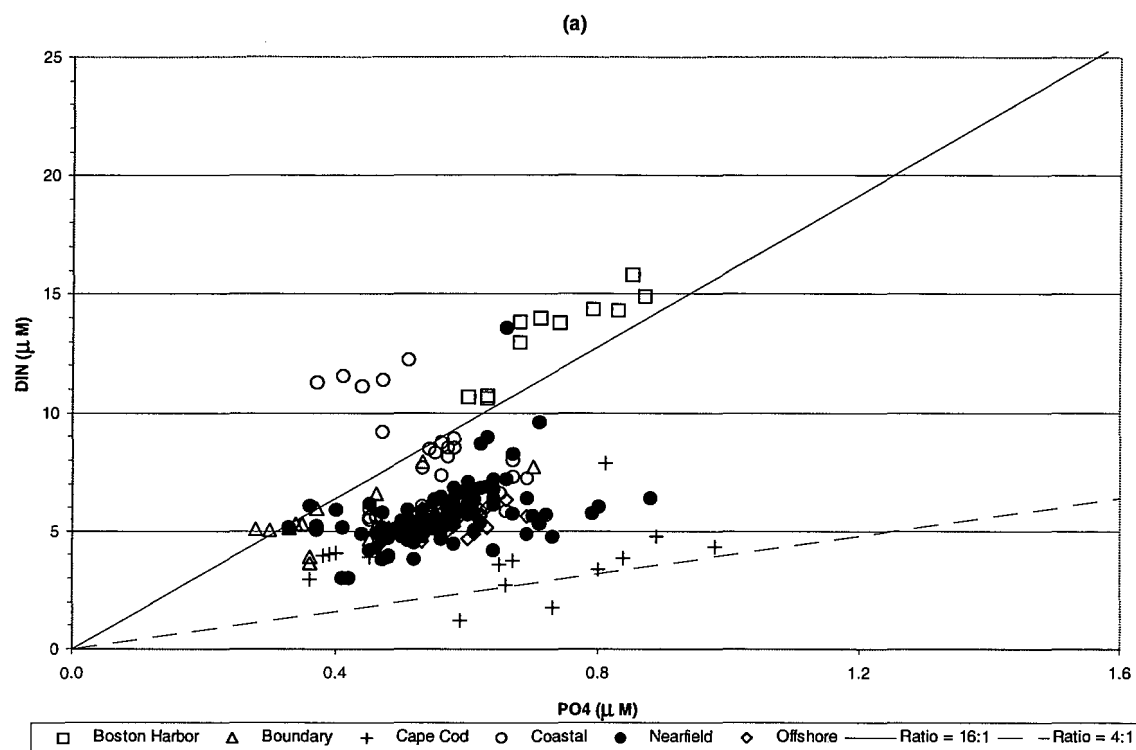


Figure D-50. Nutrient vs. Nutrient Plots for Farfield Survey WF984, (Apr 98)

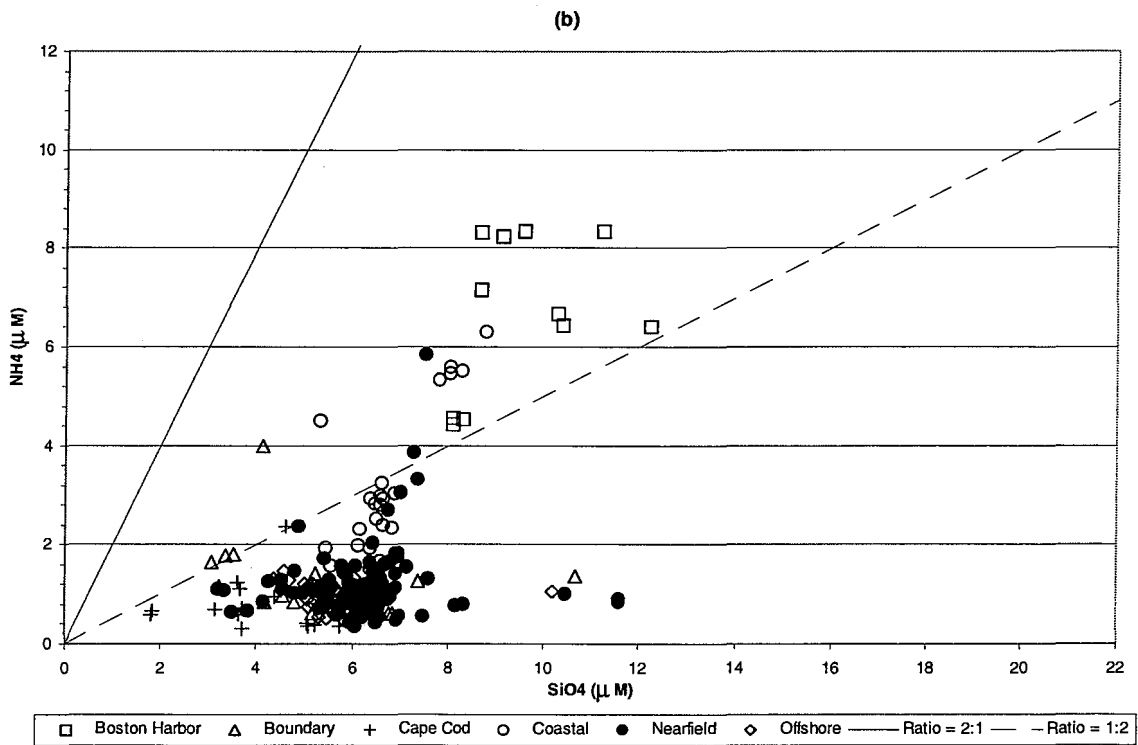
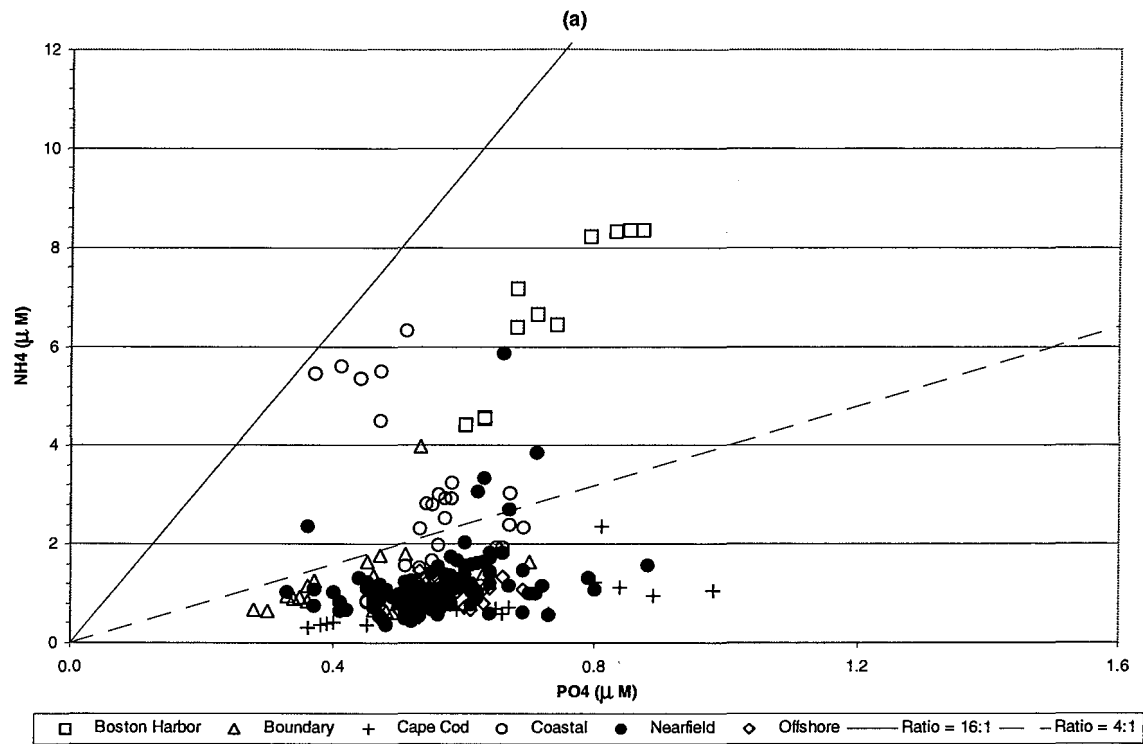


Figure D-51. Nutrient vs. Nutrient Plots for Farfield Survey WF984, (Apr 98)

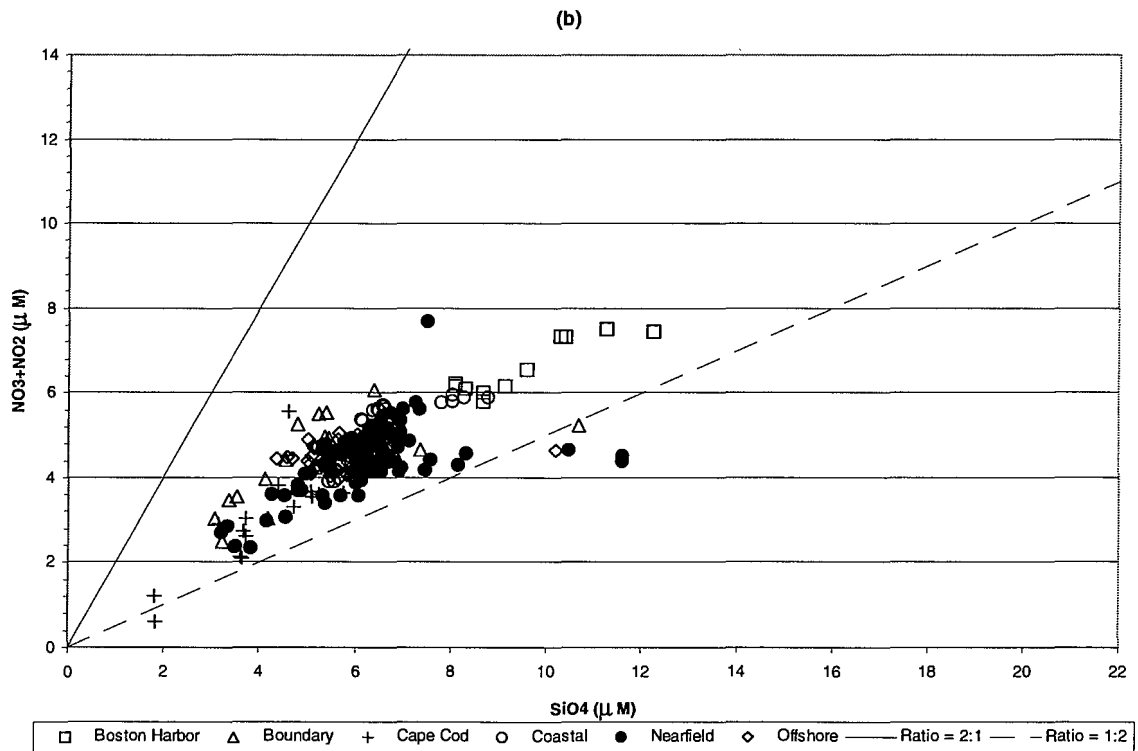
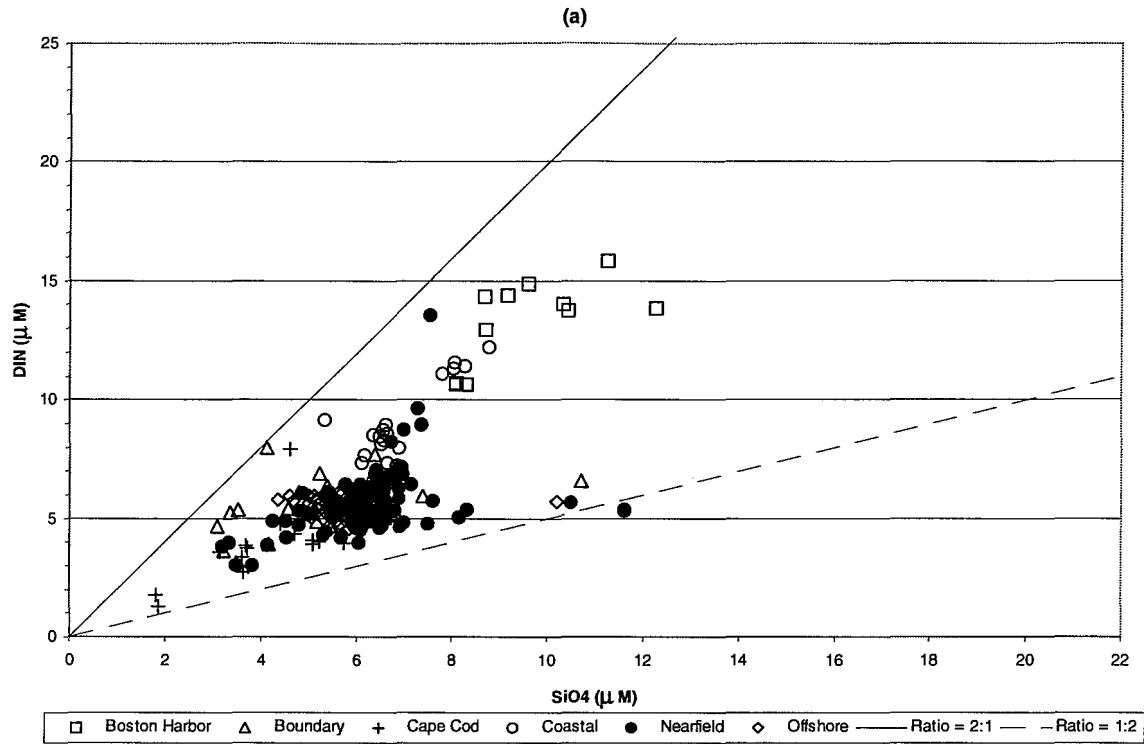


Figure D-52. Nutrient vs. Nutrient Plots for Farfield Survey WF984, (Apr 98)

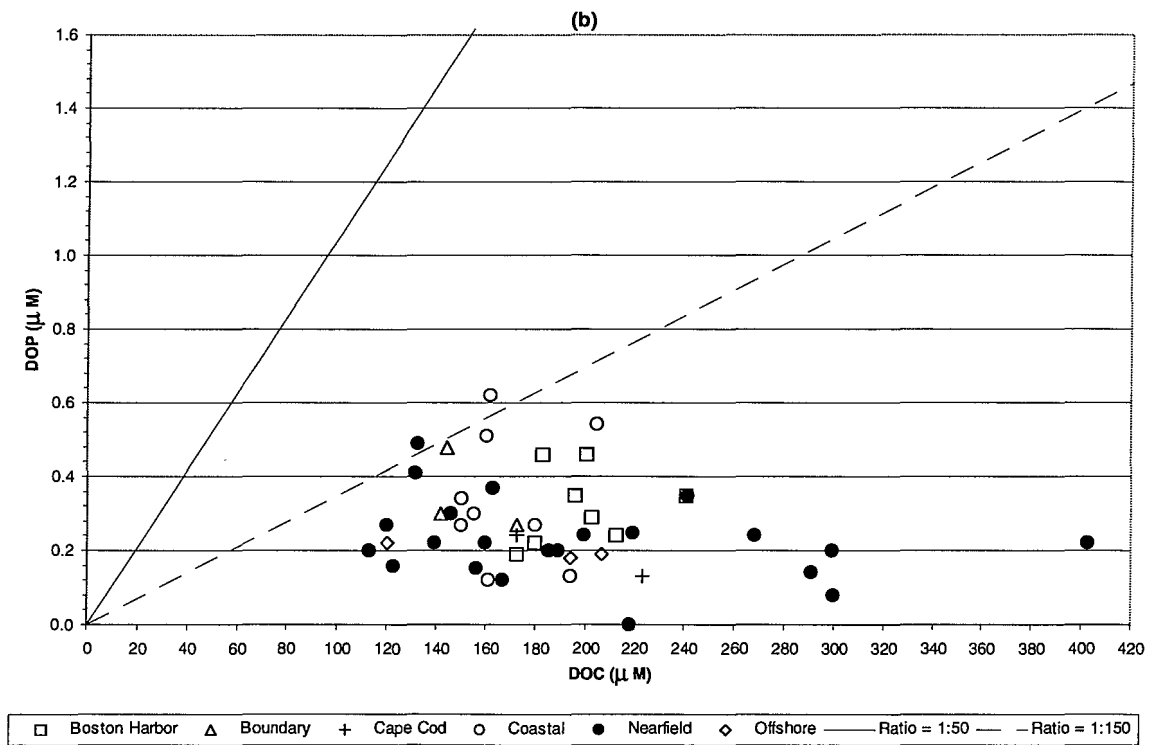
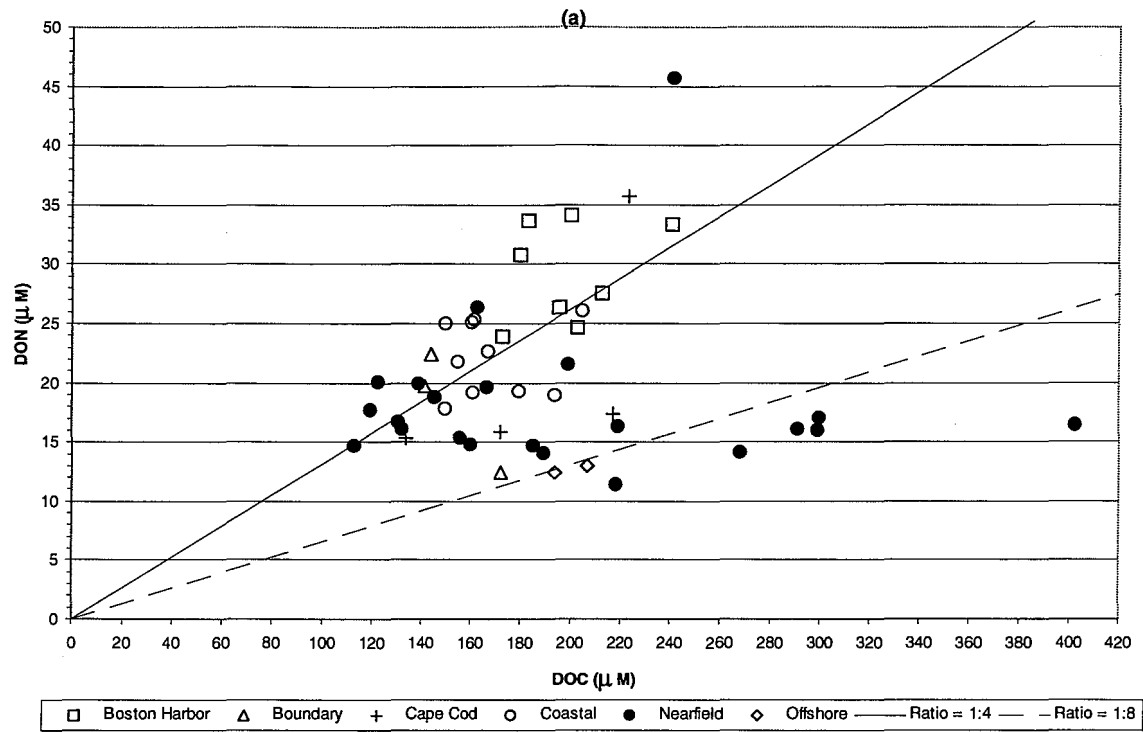


Figure D-53. Nutrient vs. Nutrient Plots for Farfield Survey WF984, (Apr 98)

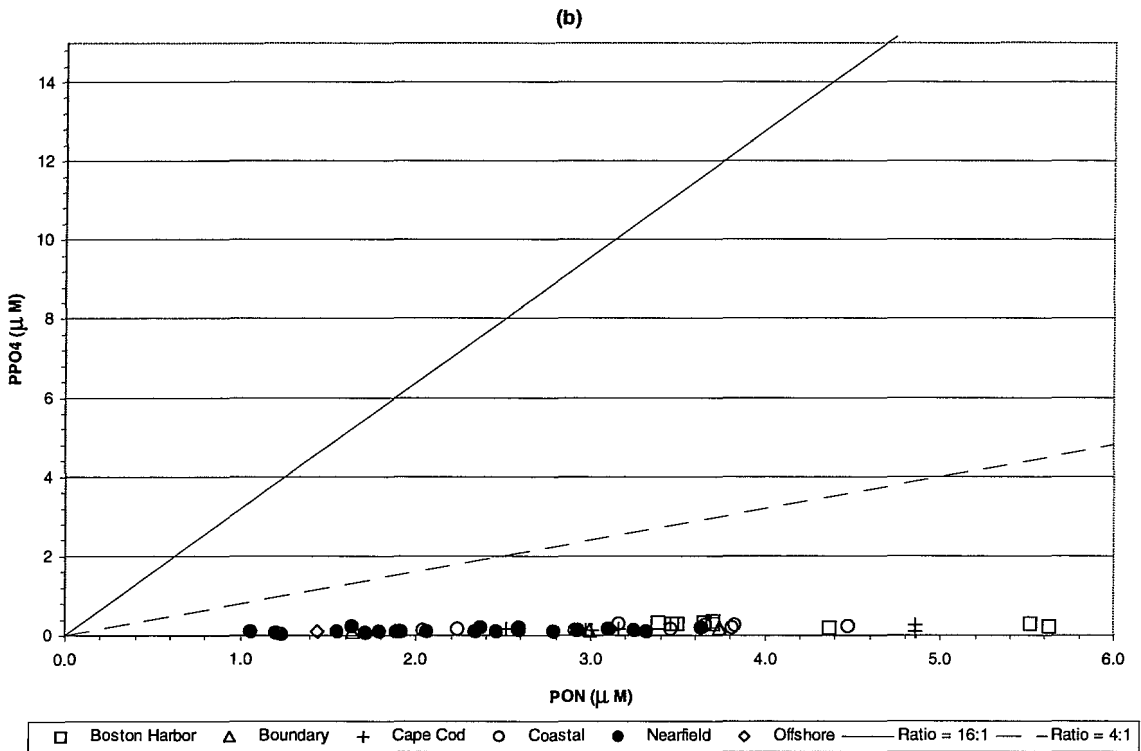
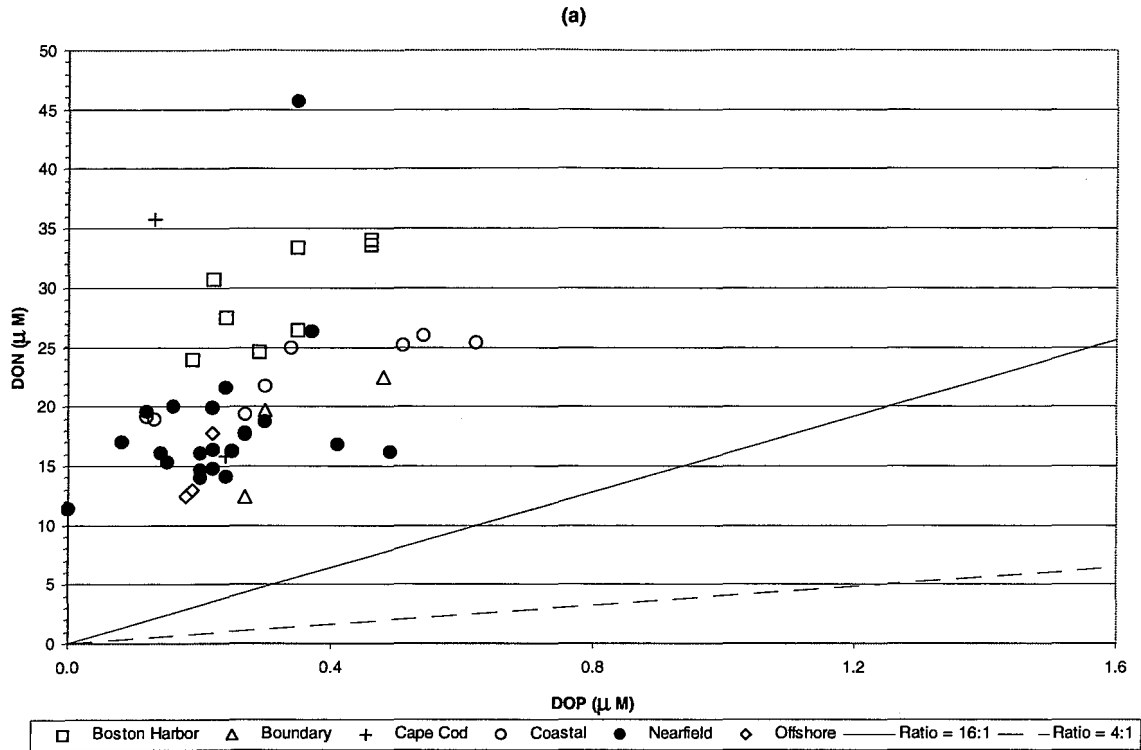


Figure D-54. Nutrient vs. Nutrient Plots for Farfield Survey WF984, (Apr 98)

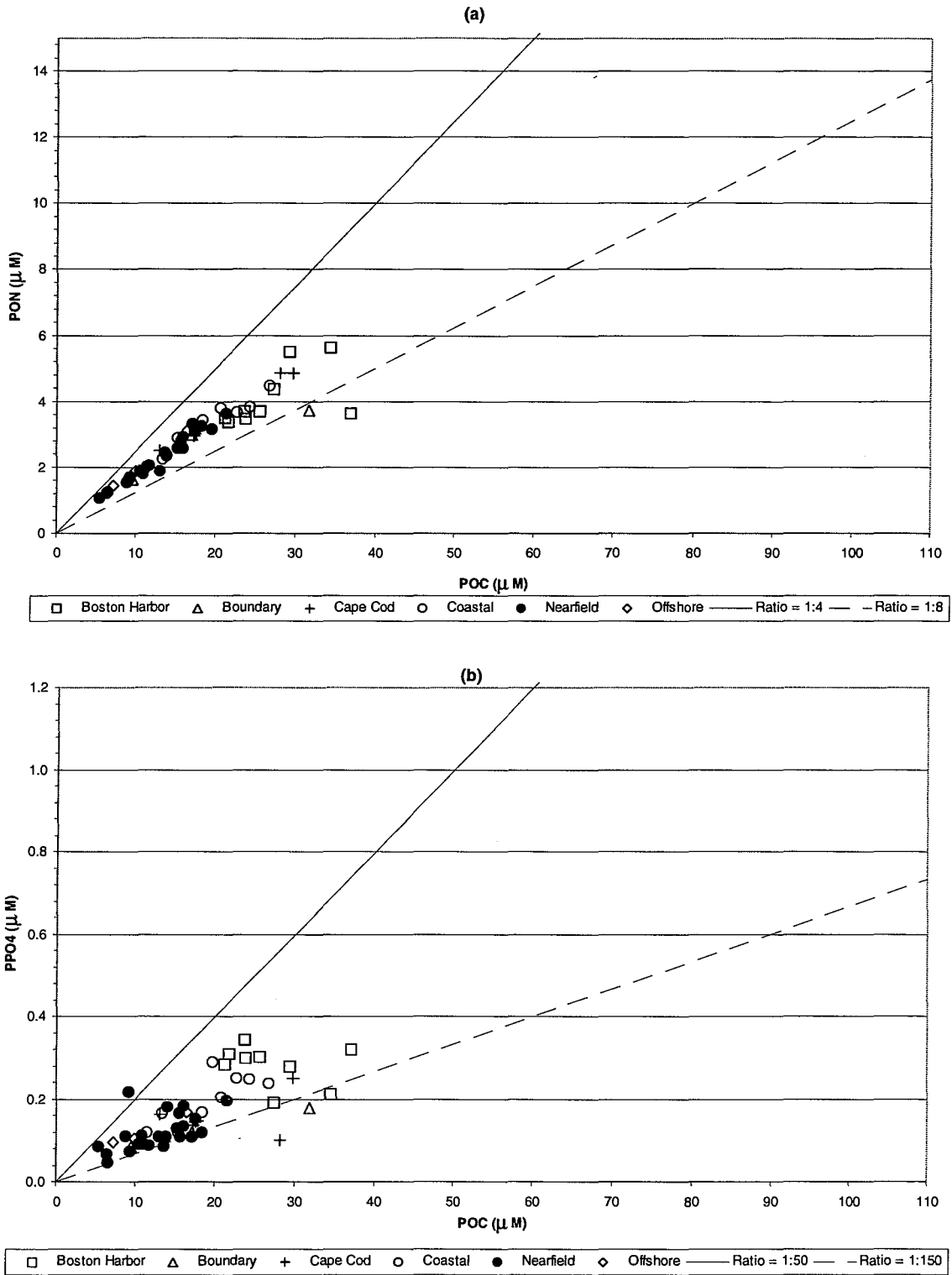


Figure D-55. Nutrient vs. Nutrient Plots for Farfield Survey WF984, (Apr 98)

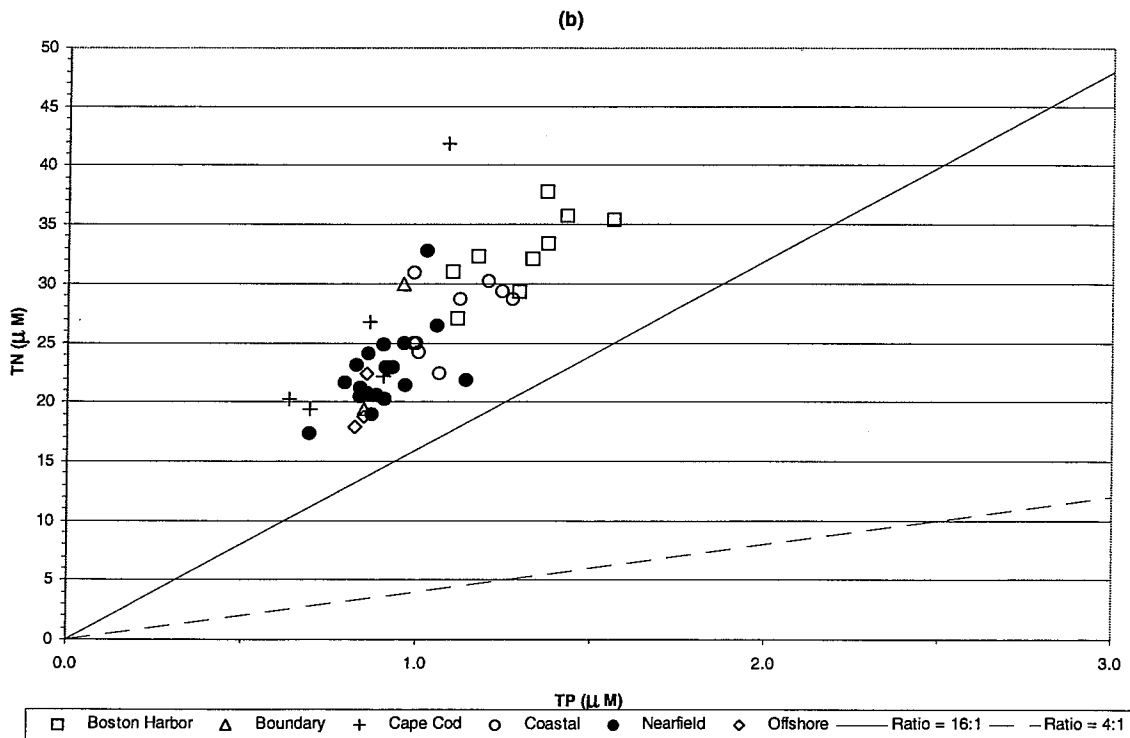
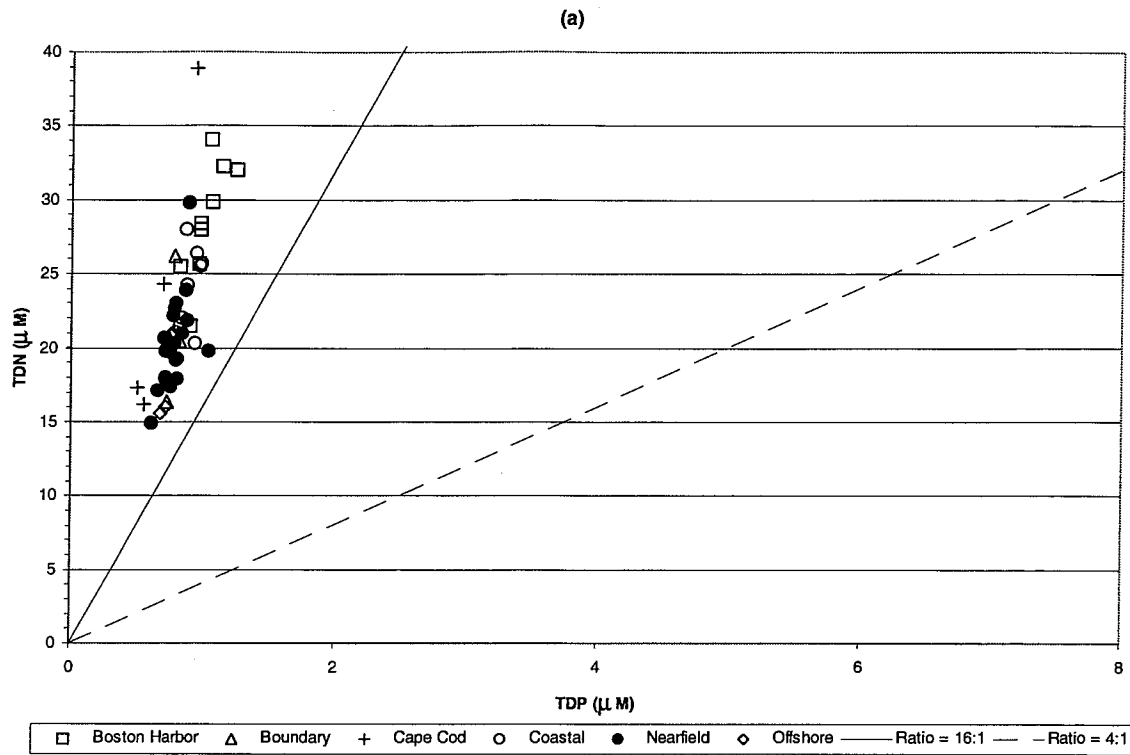


Figure D-56. Nutrient vs. Nutrient Plots for Farfield Survey WF984, (Apr 98)

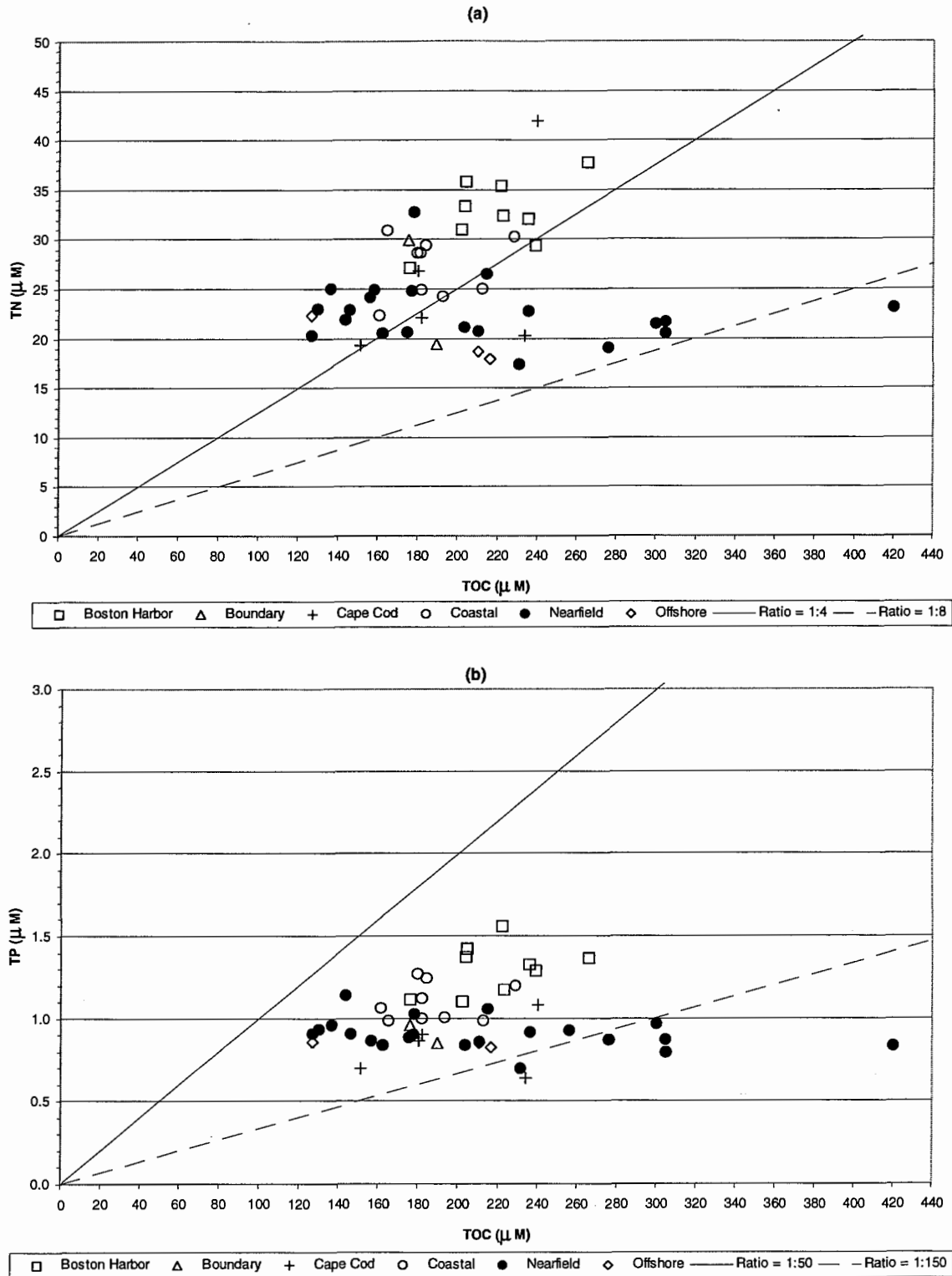


Figure D-57. Nutrient vs. Nutrient Plots for Farfield Survey WF984, (Apr 98)

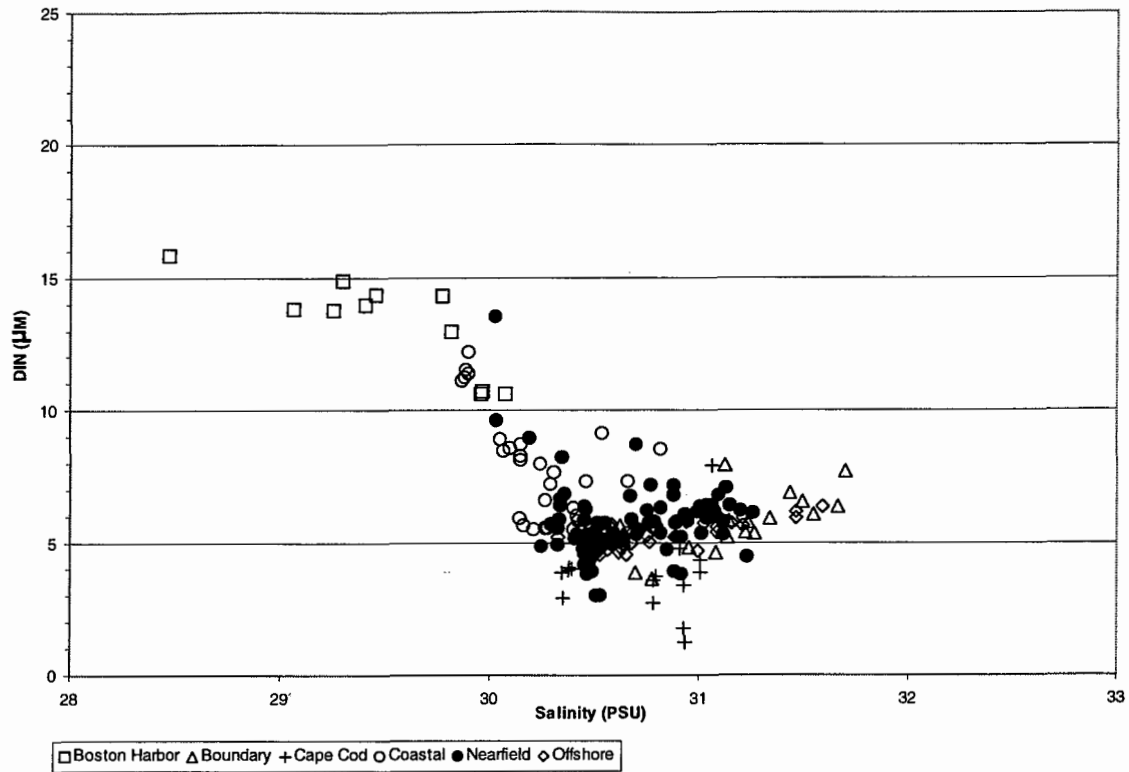


Figure D-58. Nutrient vs. Salinity Plots for Farfield Survey WF984, (Apr 98)

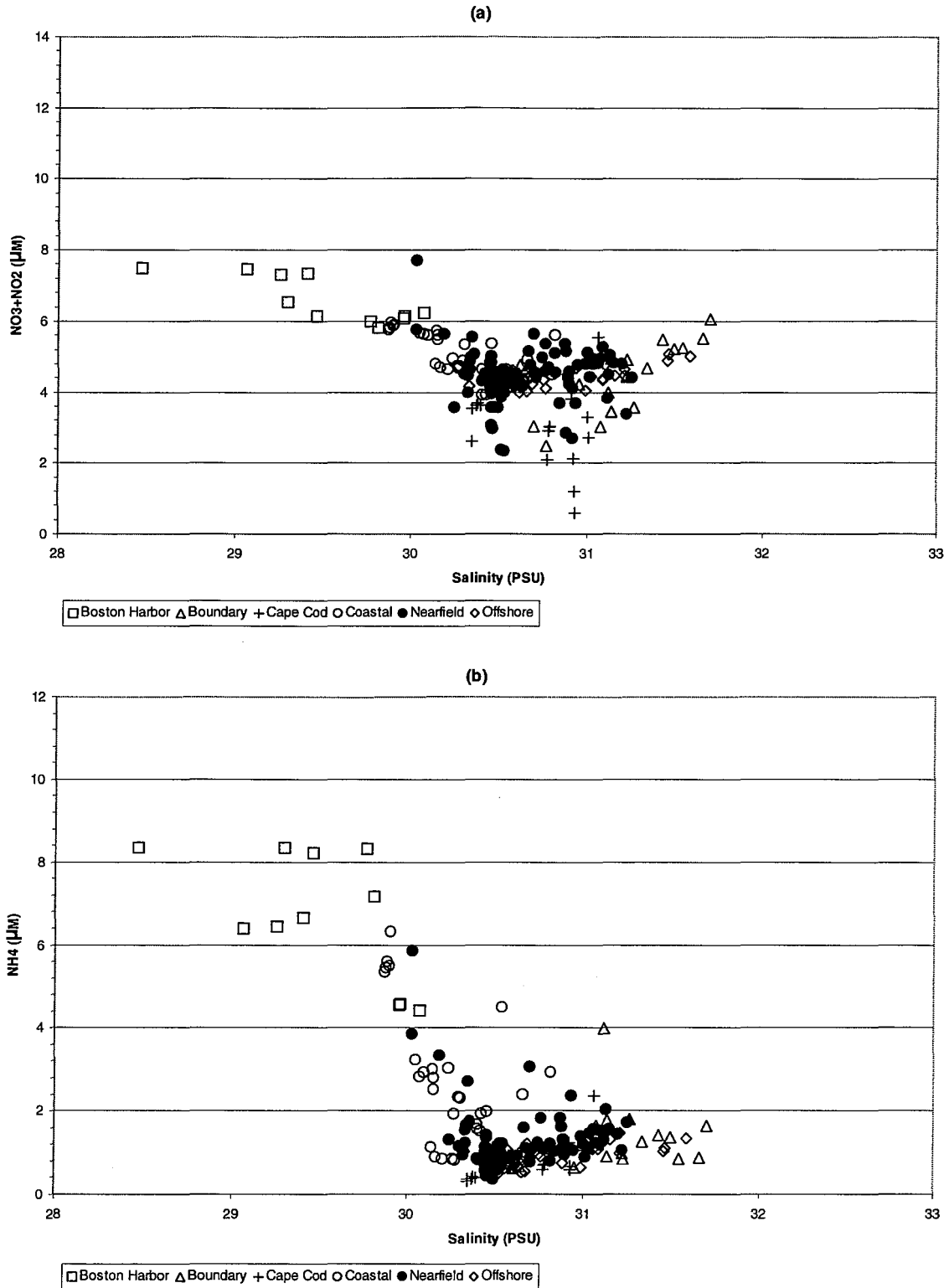


Figure D-59. Nutrient vs. Salinity Plots for Farfield Survey WF984, (Apr 98)

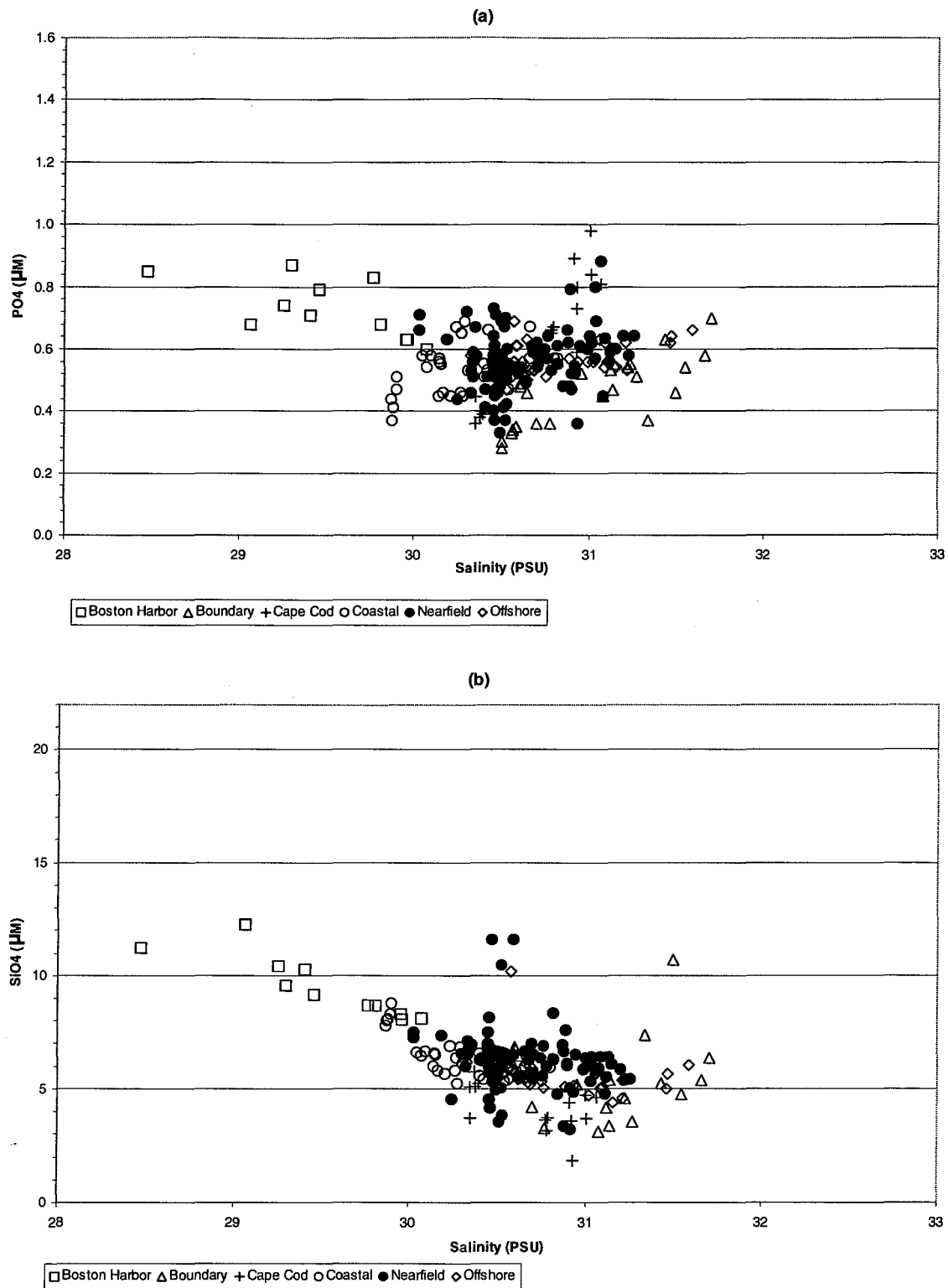


Figure D-60. Nutrient vs. Salinity Plots for Farfield Survey WF984, (Apr 98)

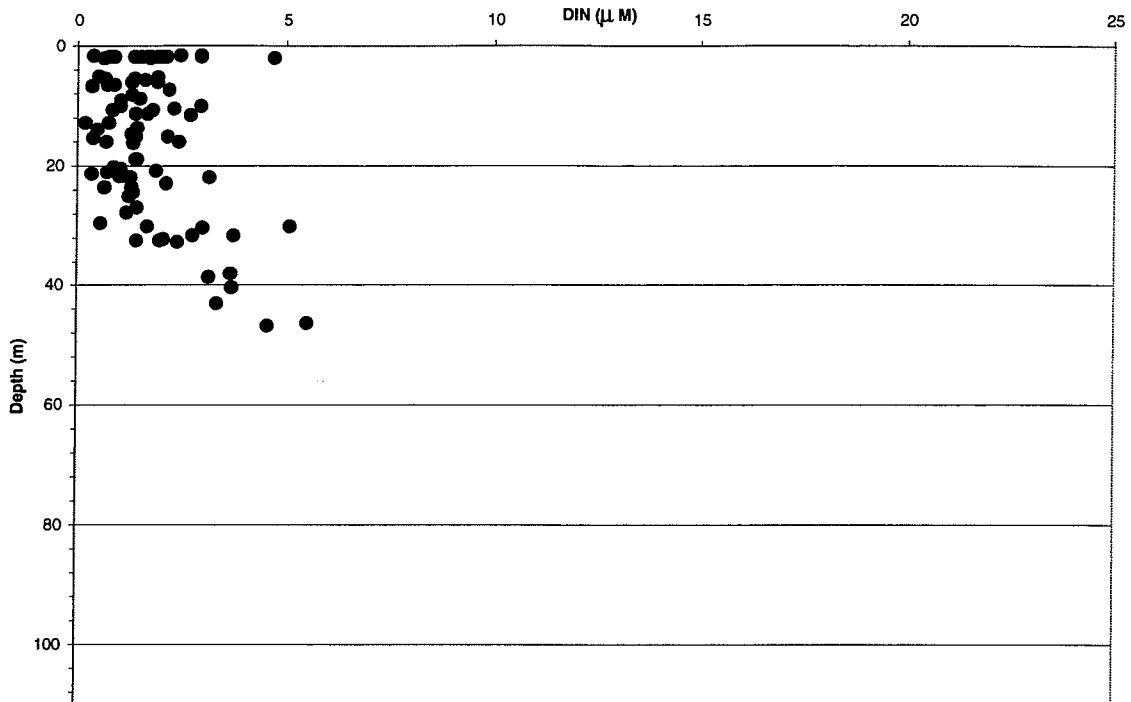


Figure D-61. Depth vs. Nutrient Plots for Nearfield Survey WN985, (Apr 98)

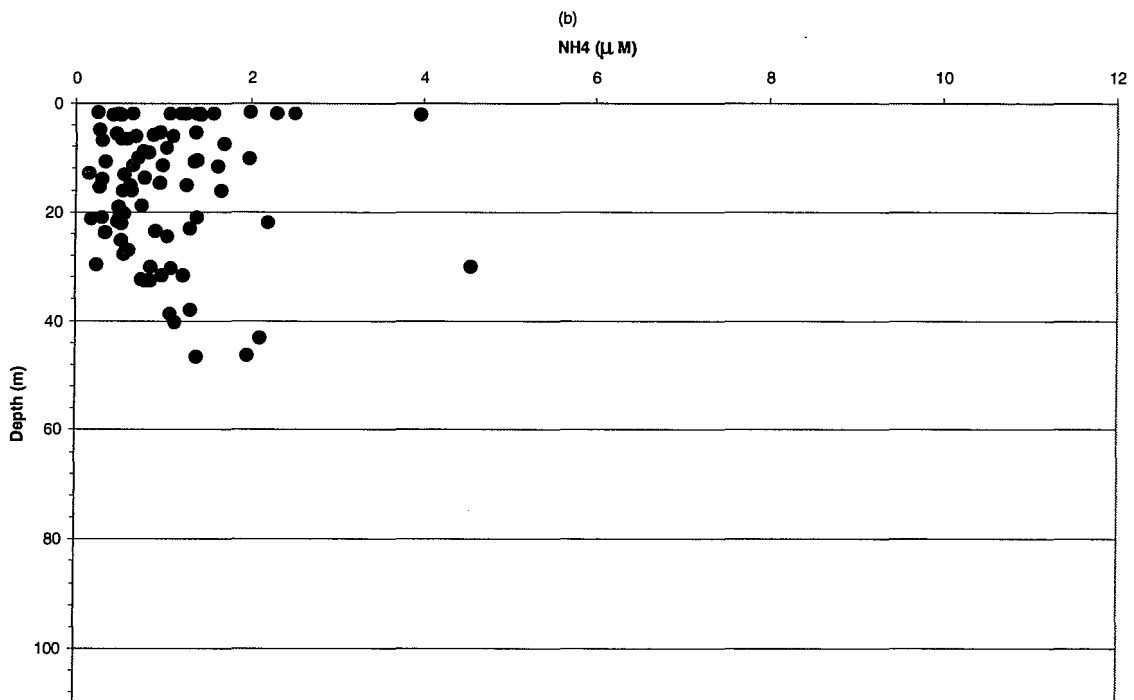
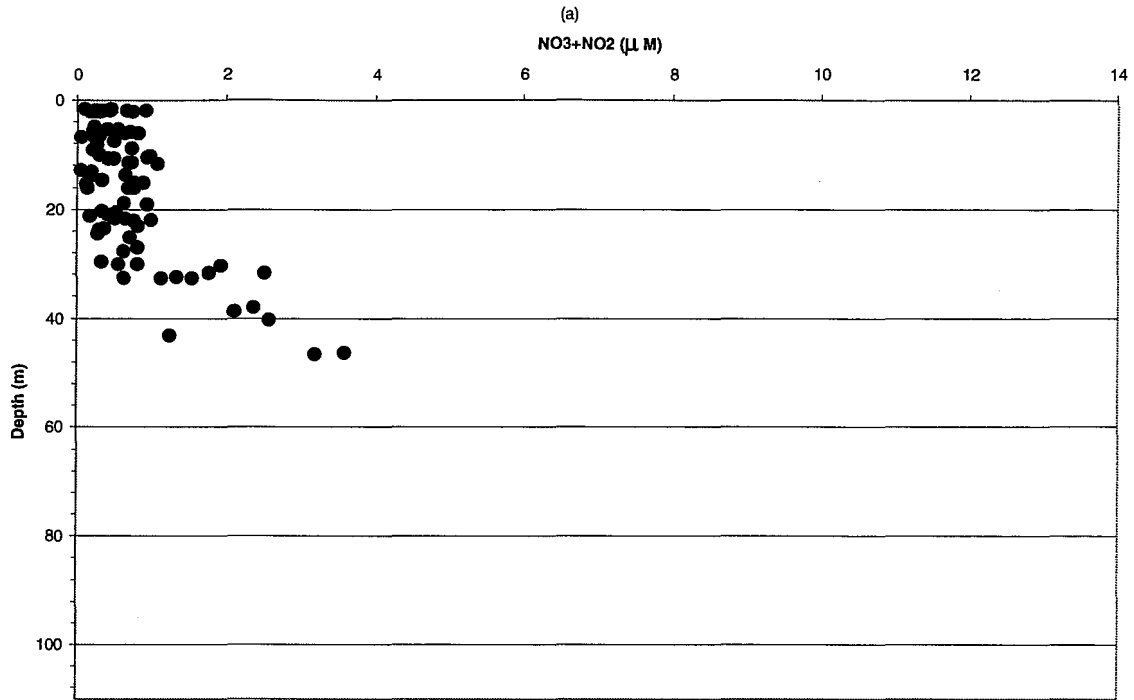


Figure D-62. Depth vs. Nutrient Plots for Nearfield Survey WN985, (Apr 98)

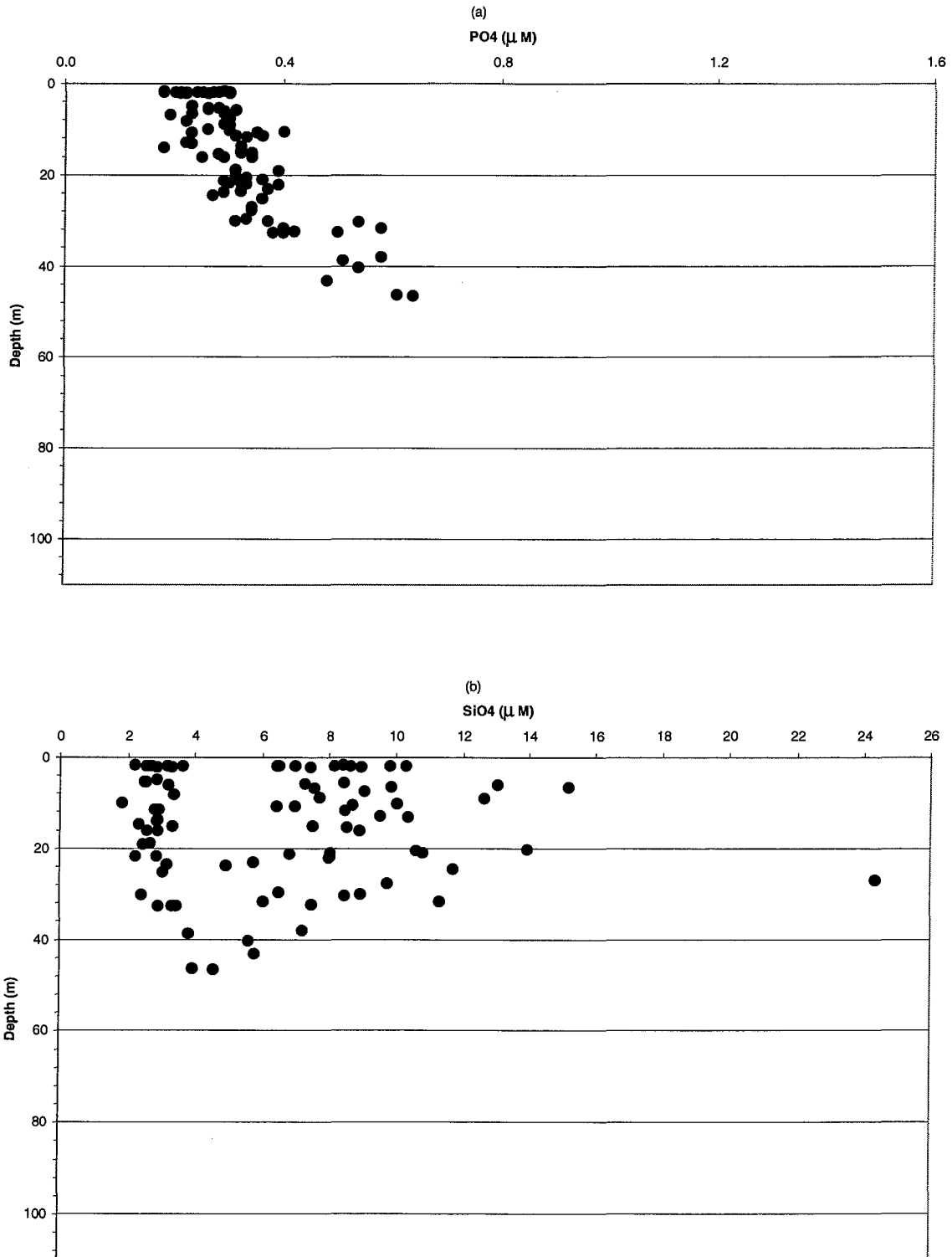


Figure D-63. Depth vs. Nutrient Plots for Nearfield Survey WN985, (Apr 98)

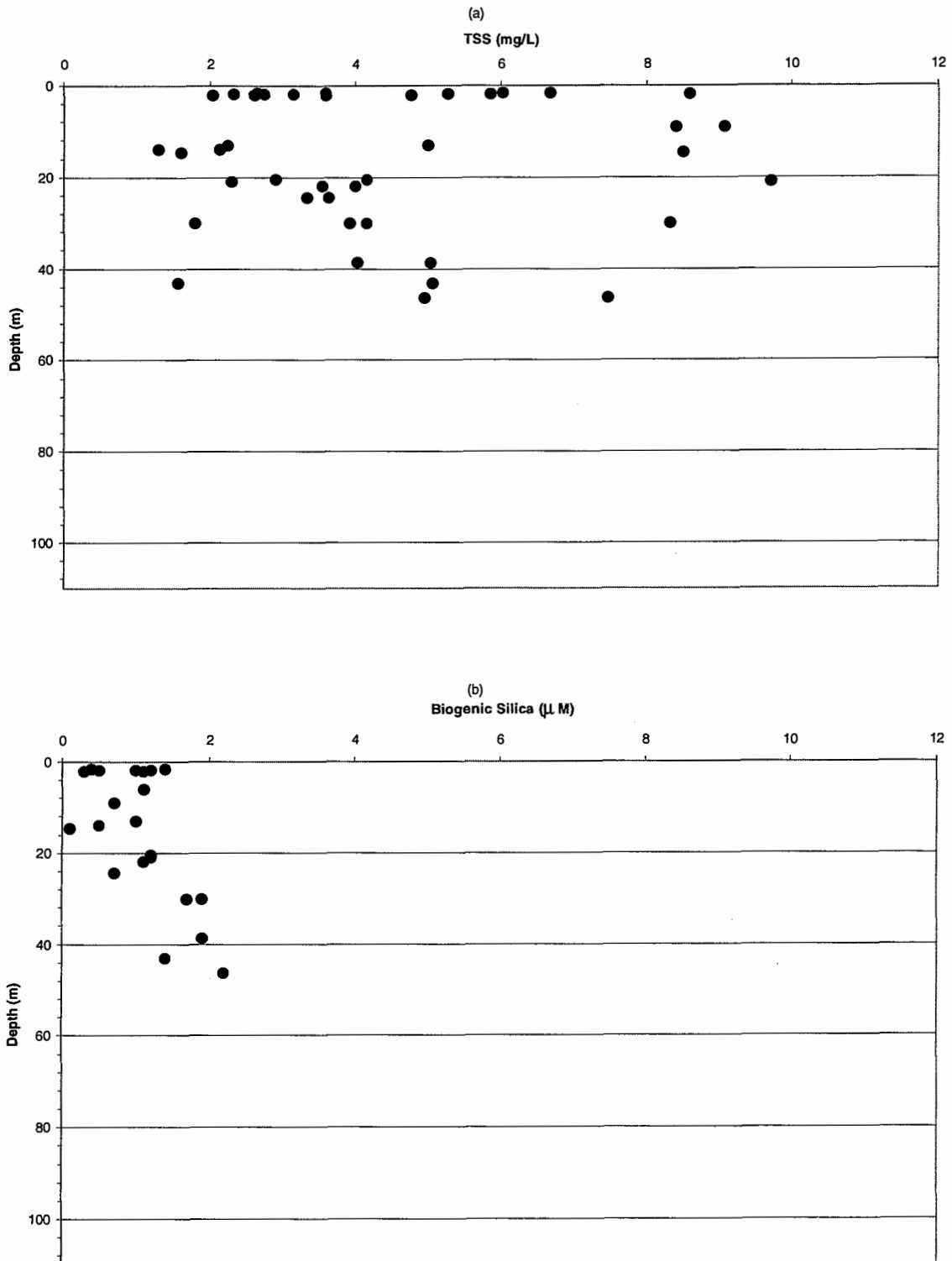


Figure D-64. Depth vs. Nutrient Plots for Nearfield Survey WN985, (Apr 98)

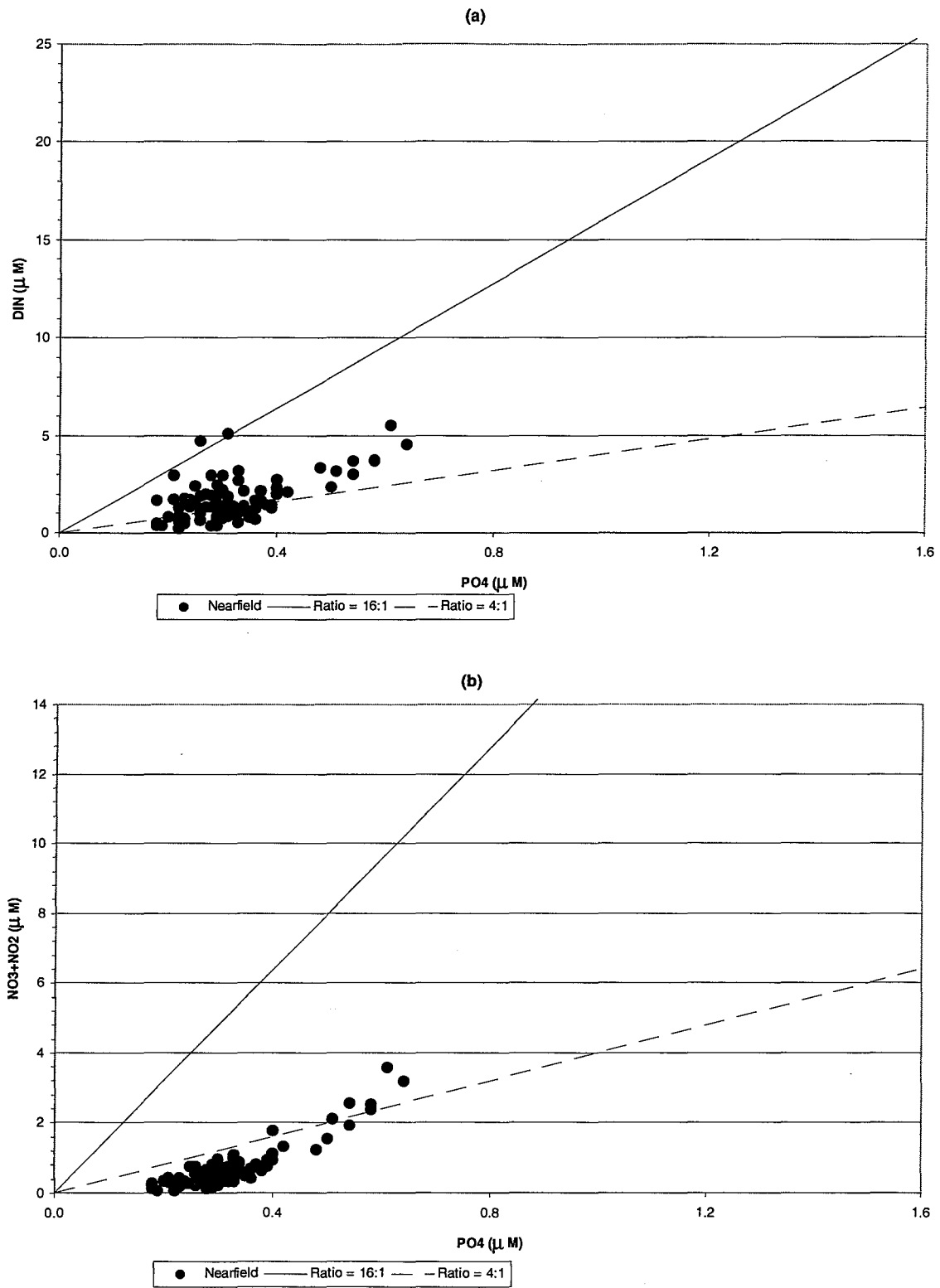


Figure D-65. Nutrient vs. Nutrient Plots for Nearfield Survey WN985, (Apr 98)

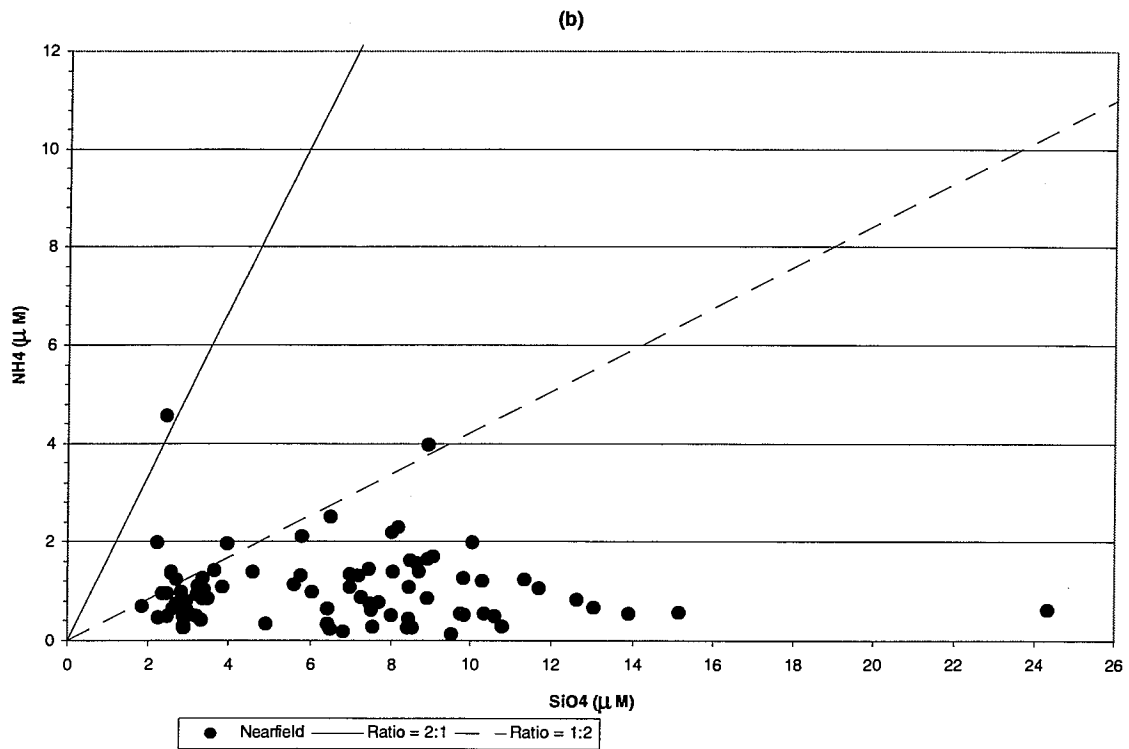
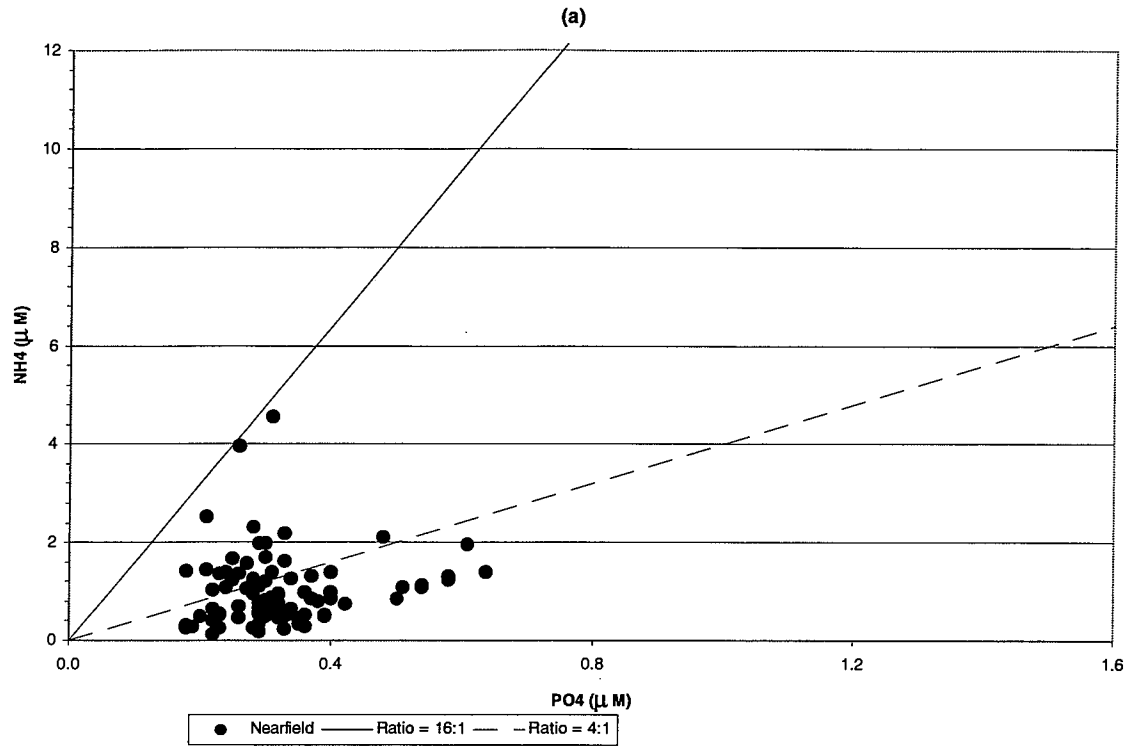


Figure D-66. Nutrient vs. Nutrient Plots for Nearfield Survey WN985, (Apr 98)

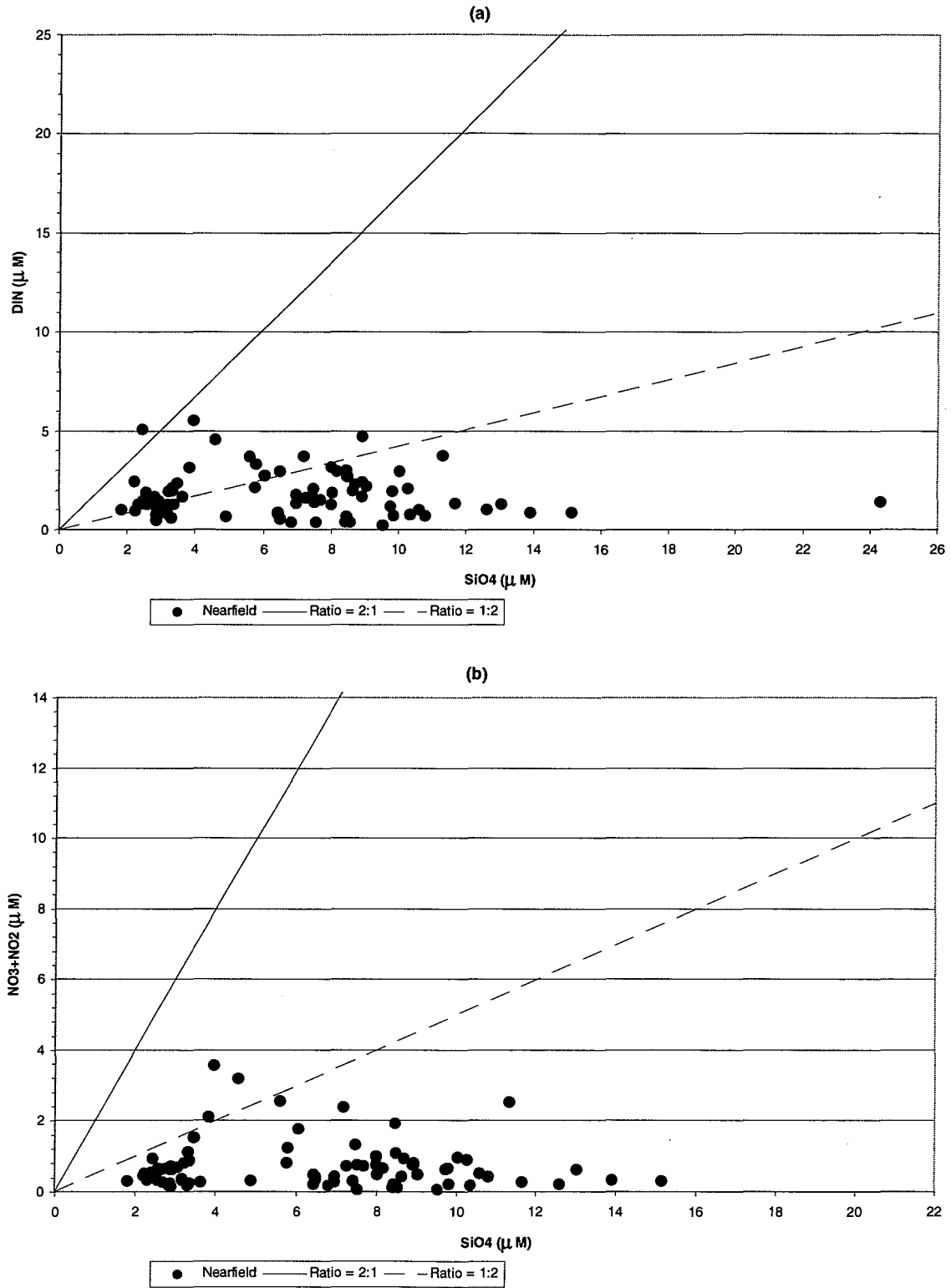


Figure D-67. Nutrient vs. Nutrient Plots for Nearfield Survey WN985, (Apr 98)

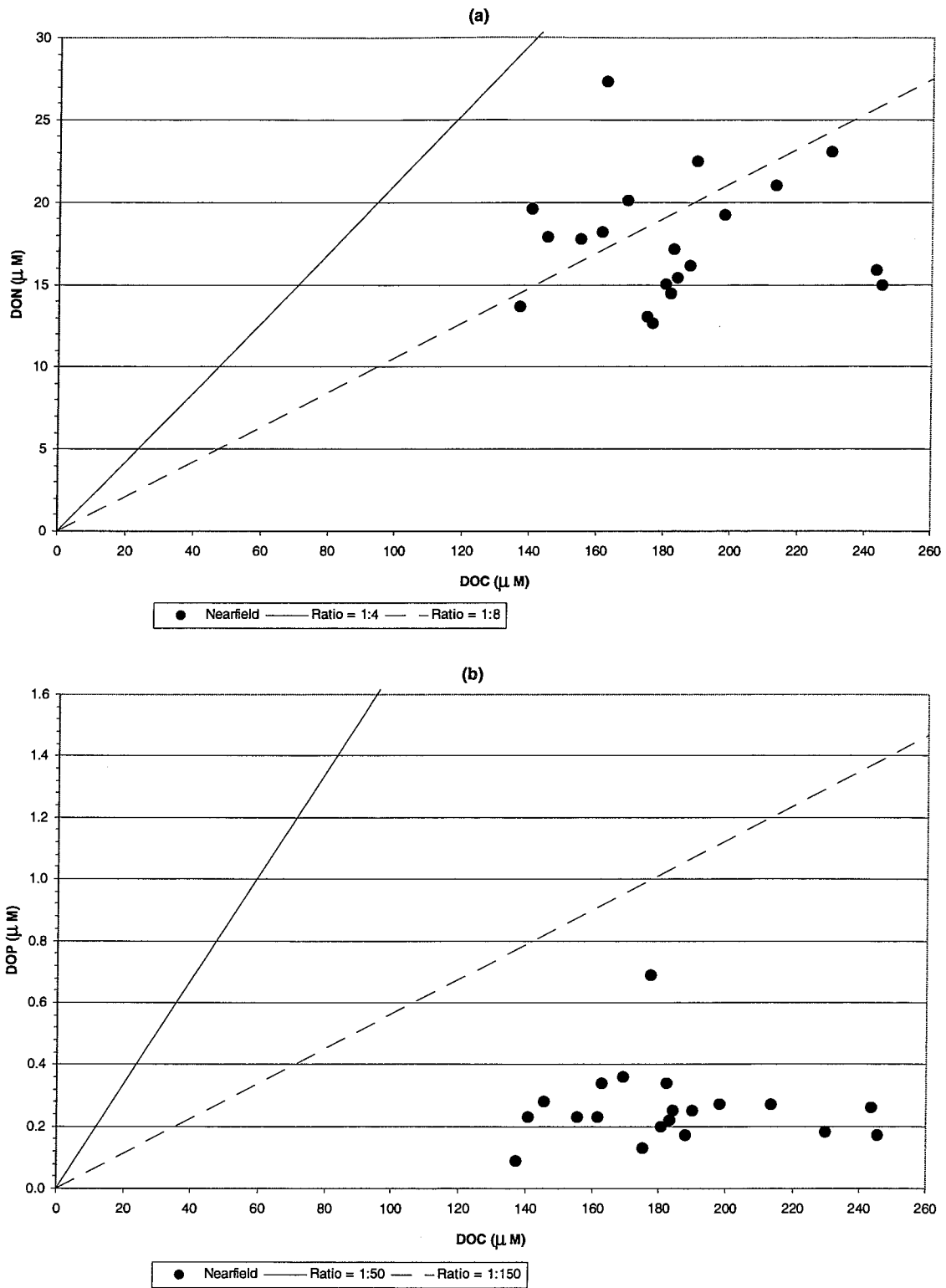


Figure D-68. Nutrient vs. Nutrient Plots for Nearfield Survey WN985, (Apr 98)

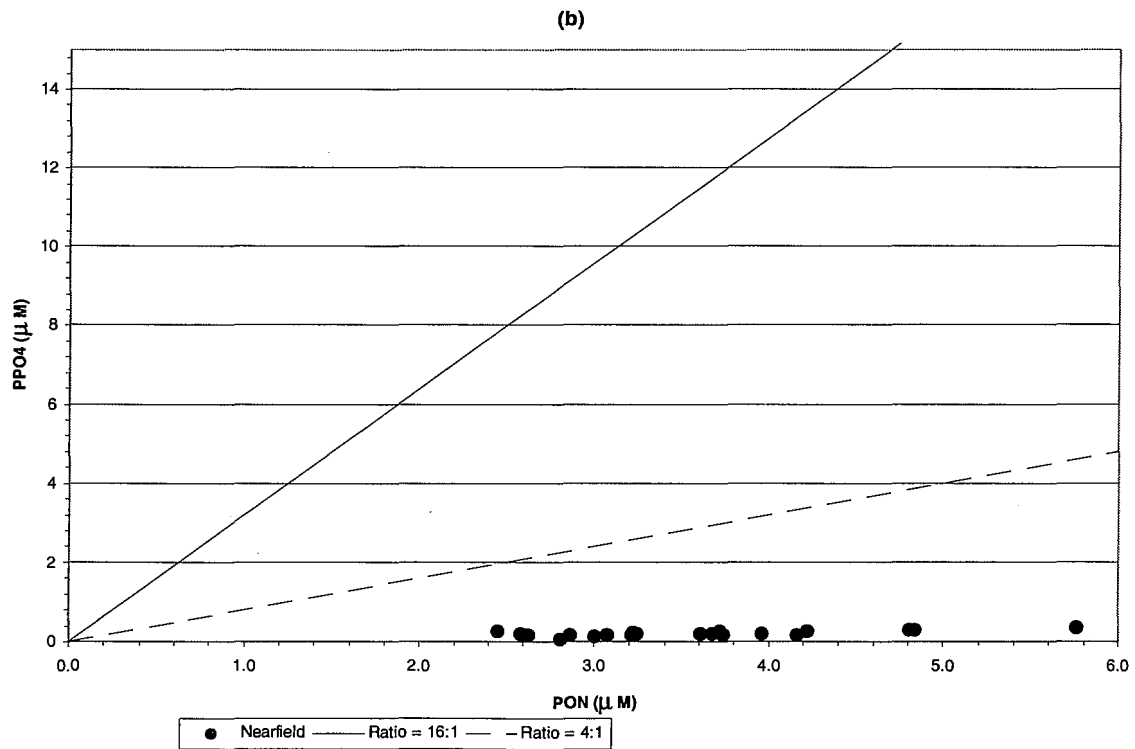
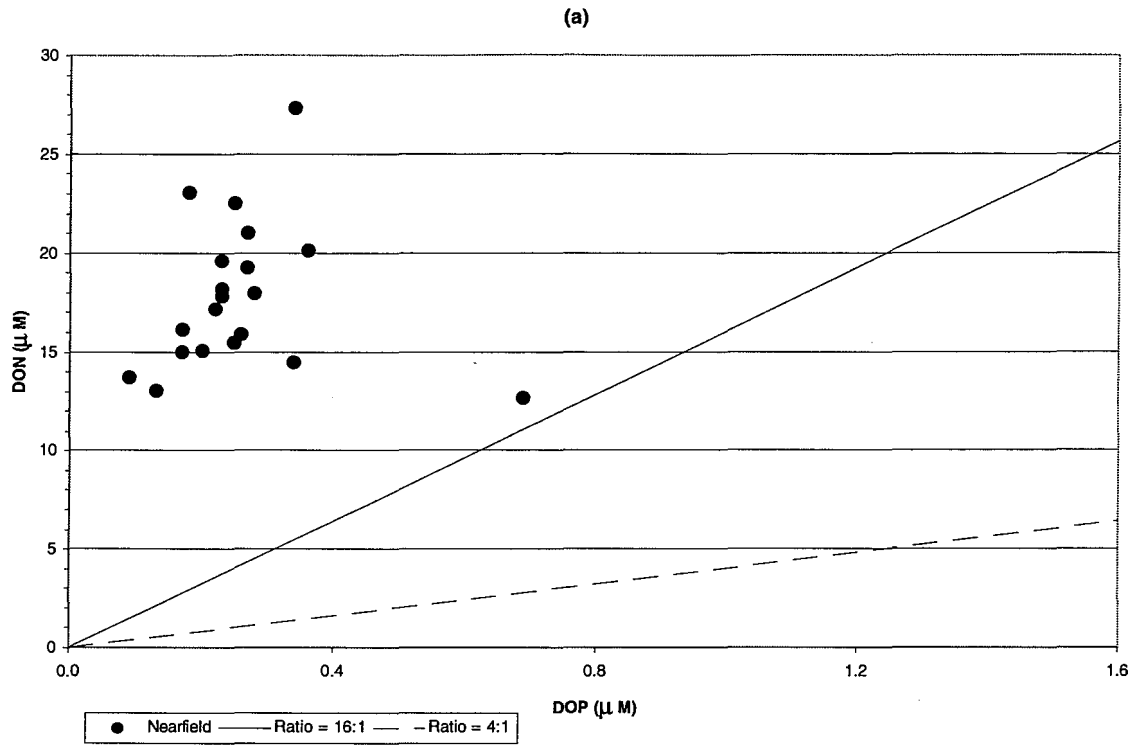


Figure D-69. Nutrient vs. Nutrient Plots for Nearfield Survey WN985, (Apr 98)

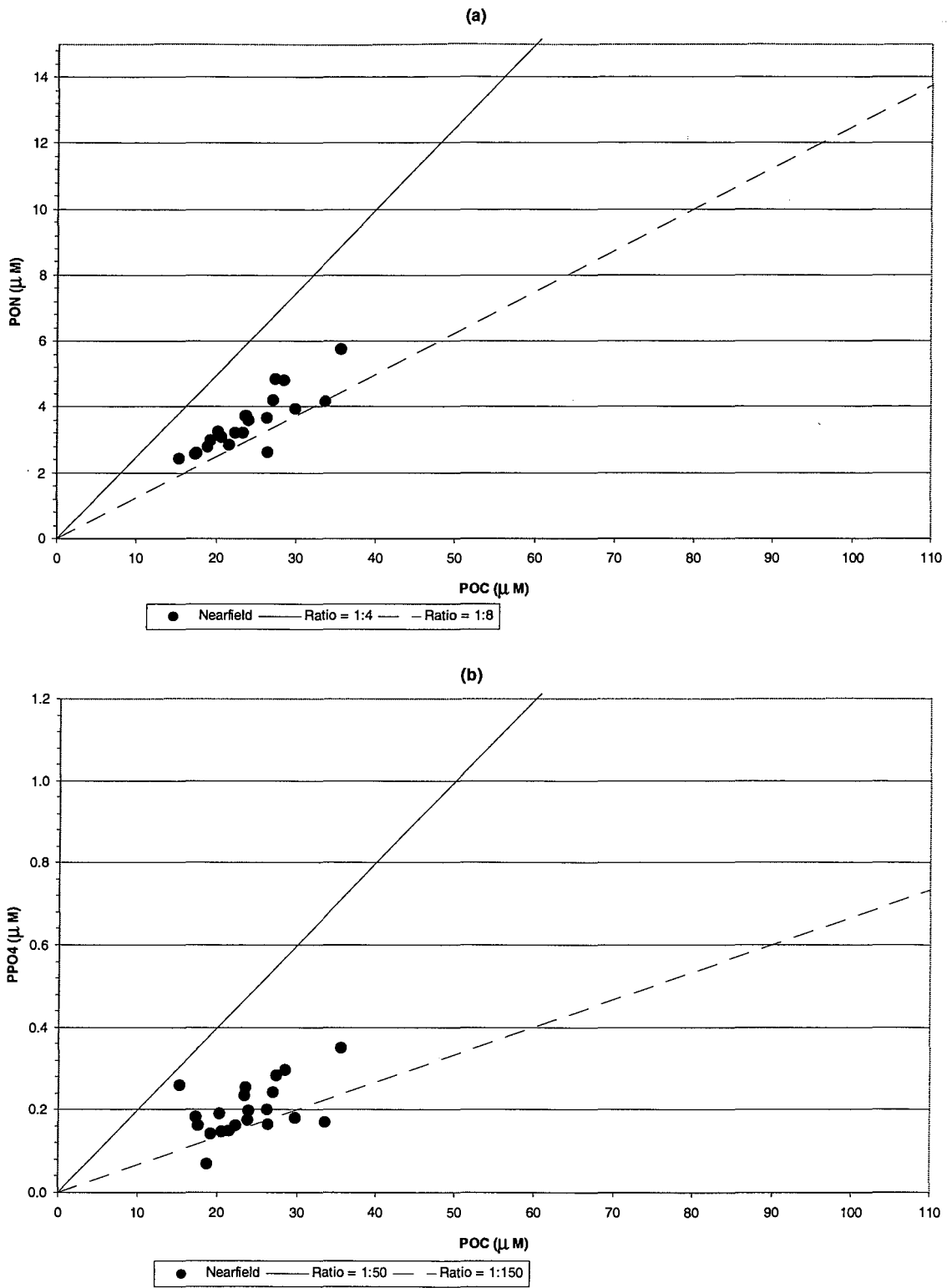


Figure D-70. Nutrient vs. Nutrient Plots for Nearfield Survey WN985, (Apr 98)

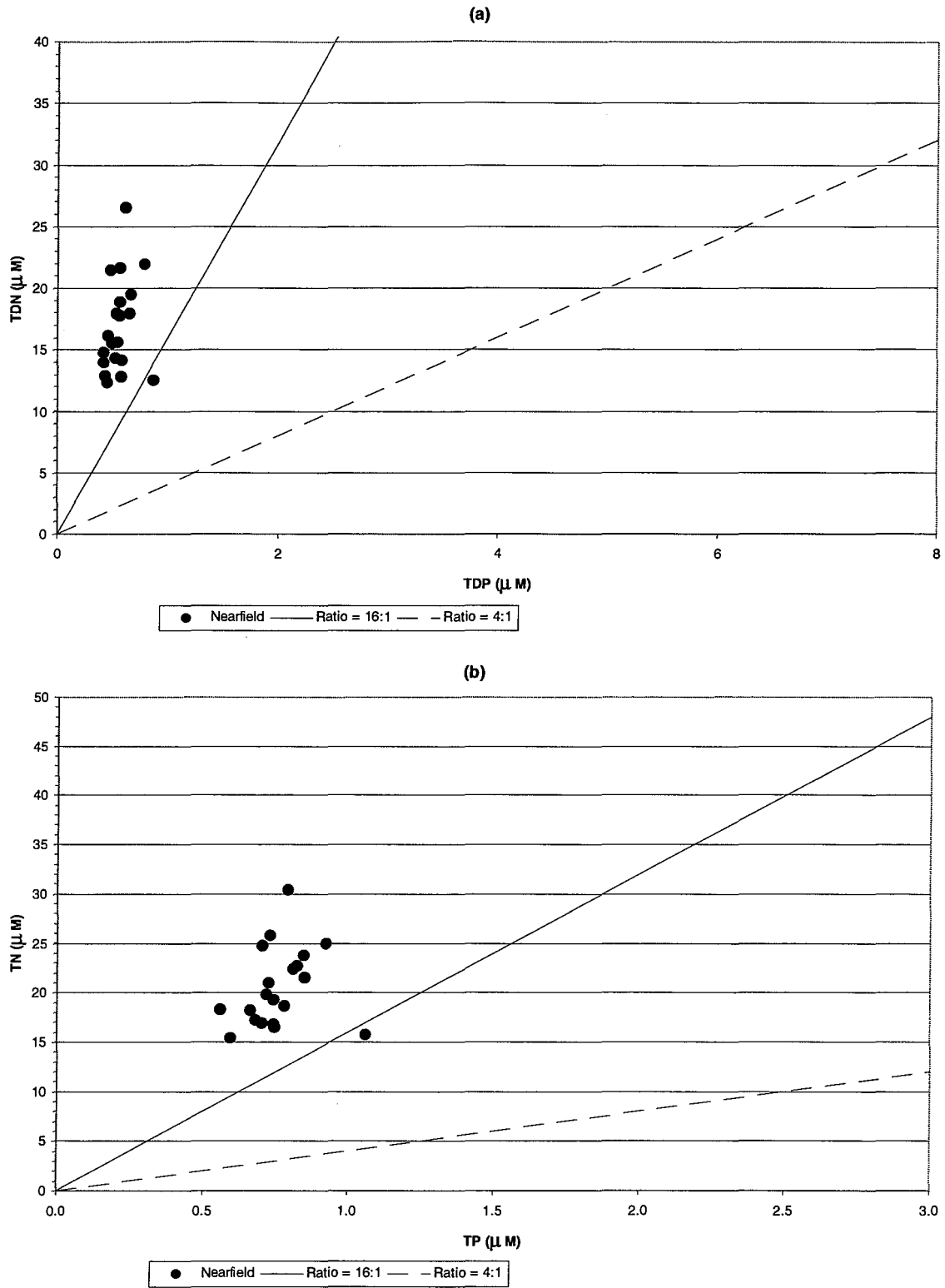


Figure D-71. Nutrient vs. Nutrient Plots for Nearfield Survey WN985, (Apr 98)

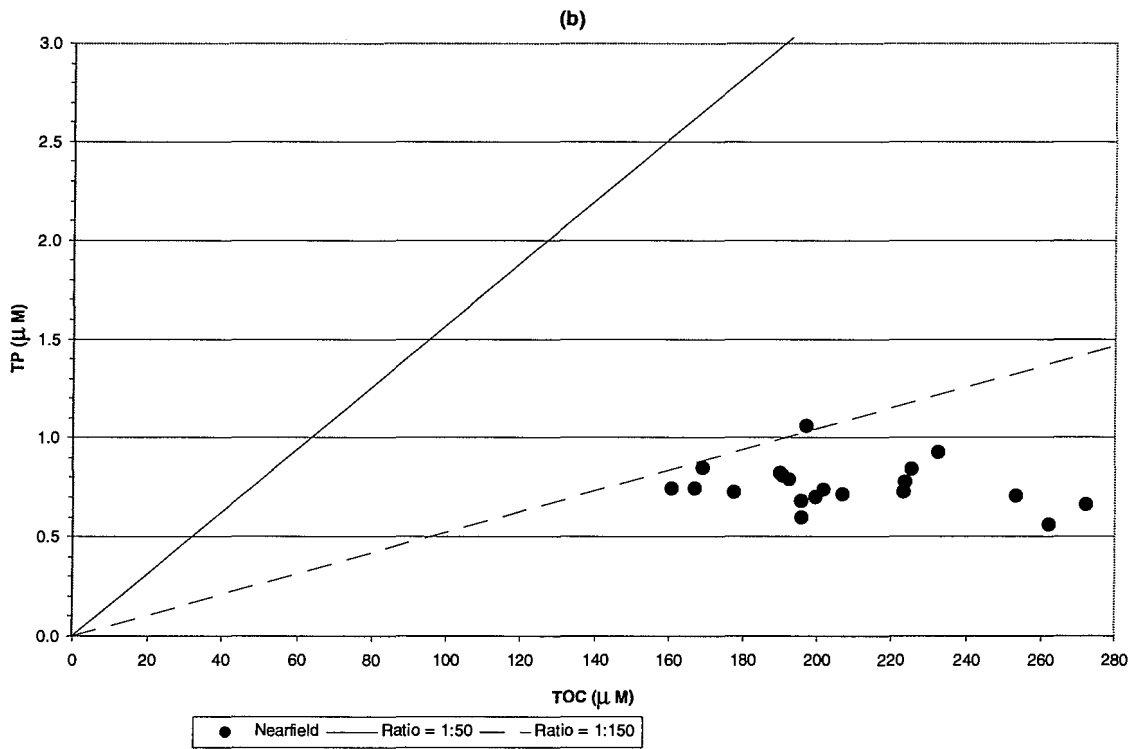
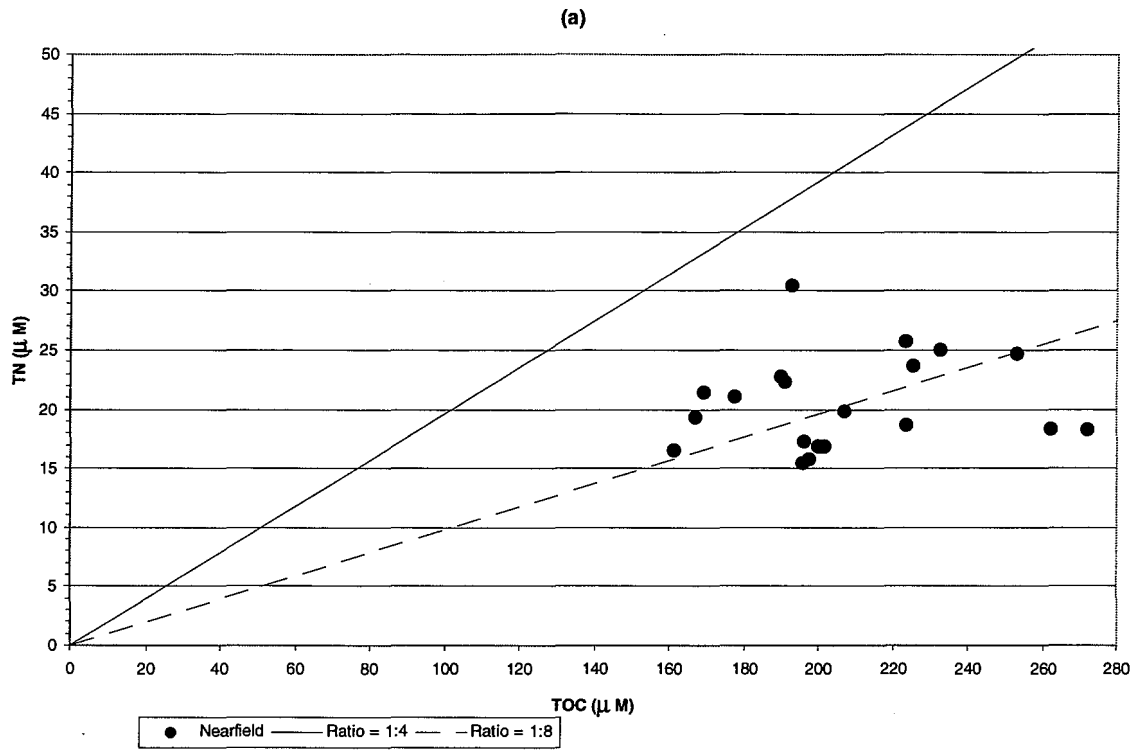


Figure D-72. Nutrient vs. Nutrient Plots for Nearfield Survey WN985, (Apr 98)

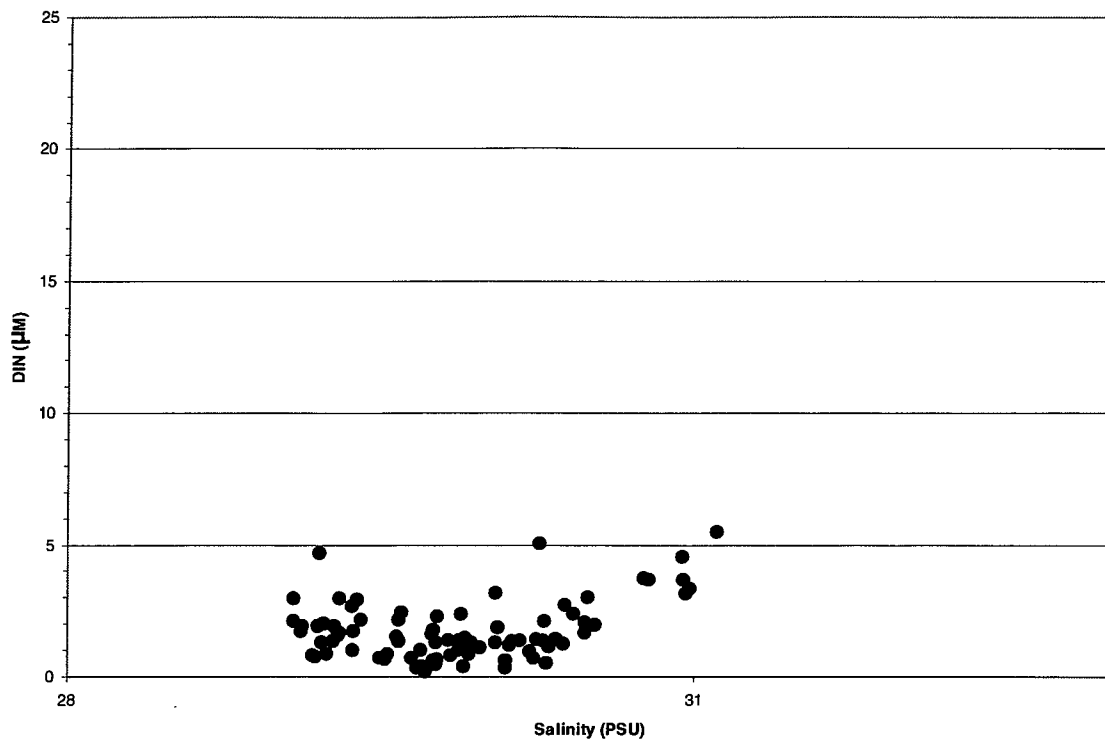


Figure D-73. Nutrient vs. Salinity Plots for Nearfield Survey WN985, (Apr 98)

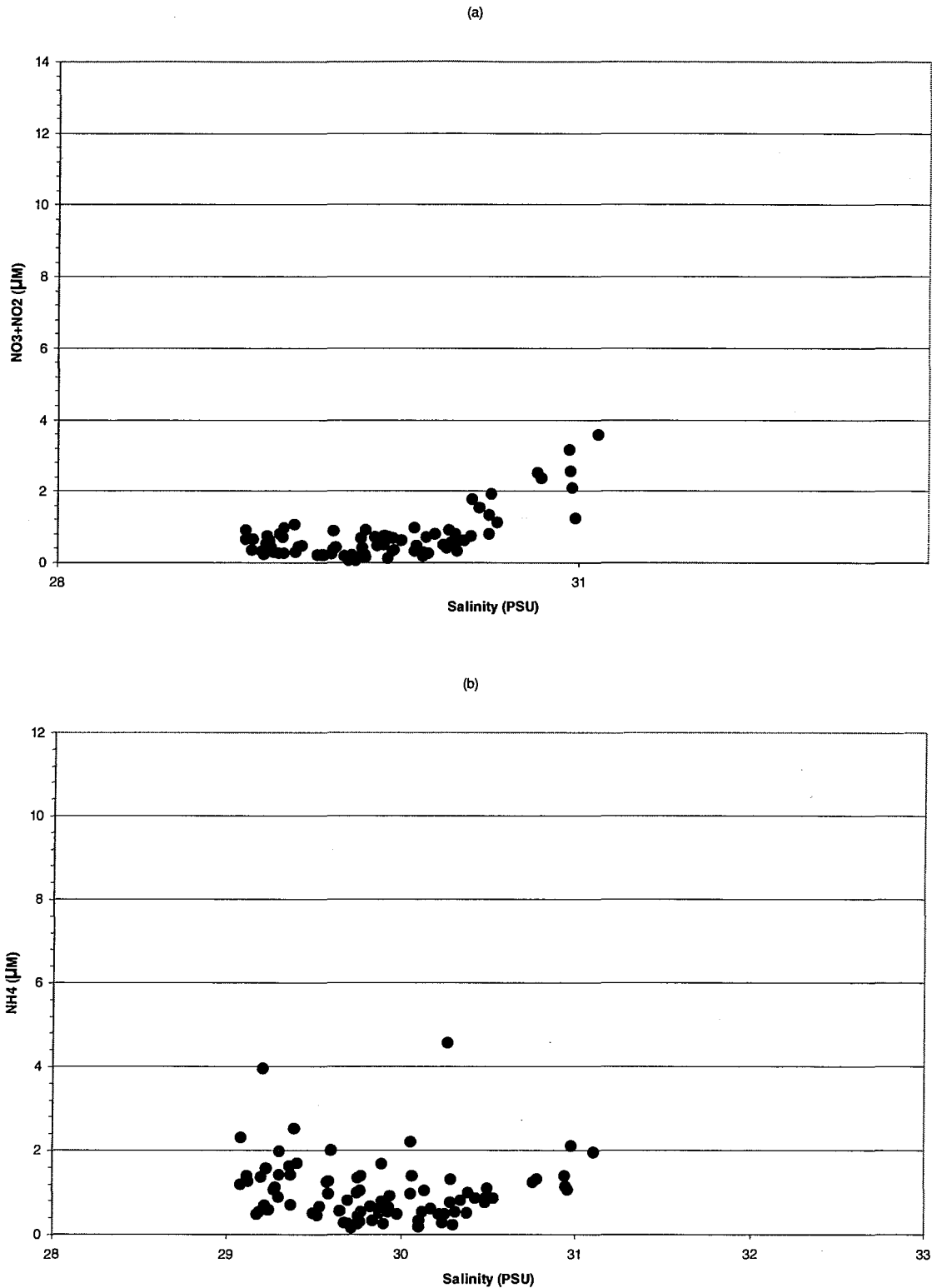


Figure D-74. Nutrient vs. Salinity Plots for Nearfield Survey WN985, (Apr 98)

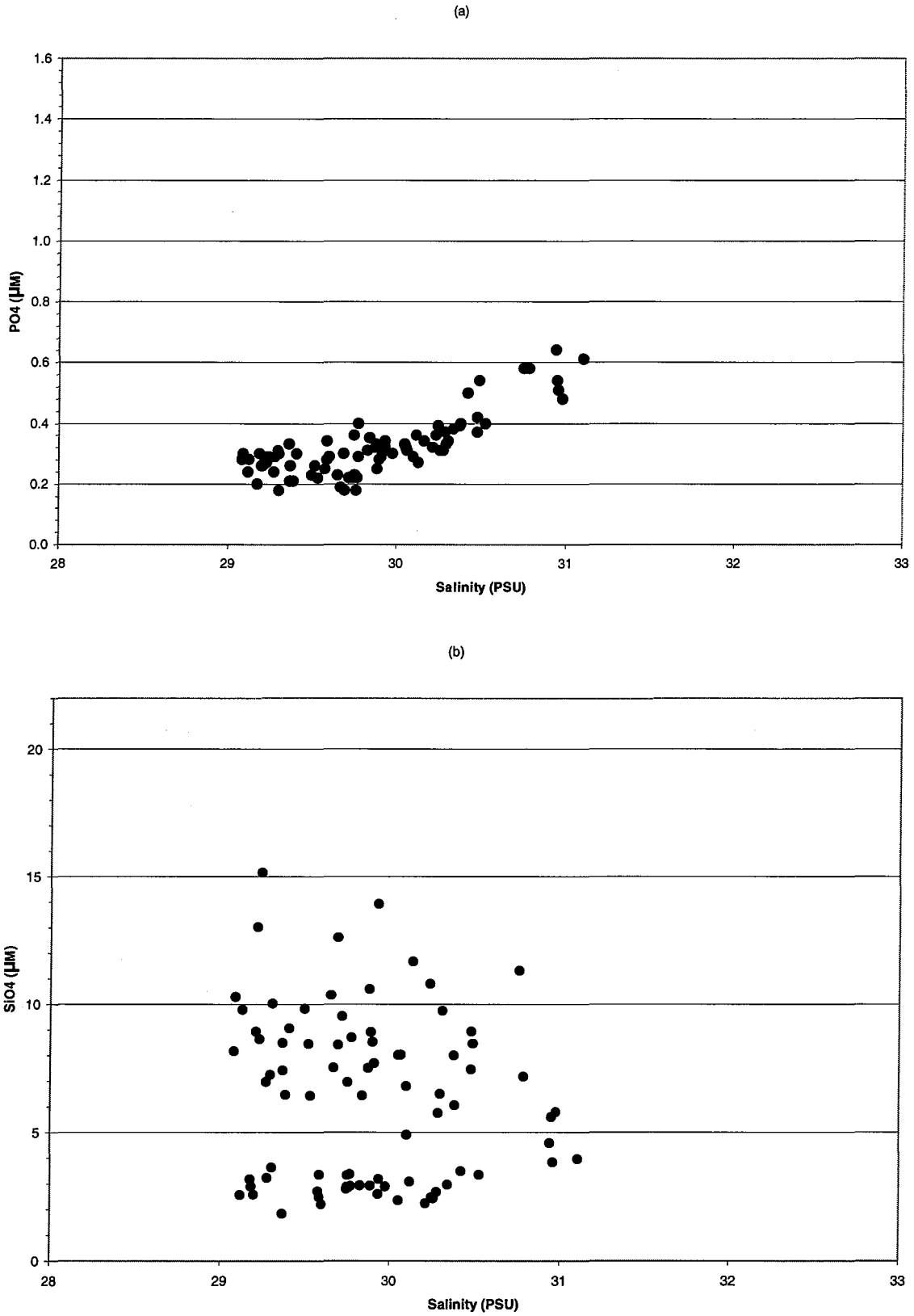


Figure D-75. Nutrient vs. Salinity Plots for Nearfield Survey WN985, (Apr 98)

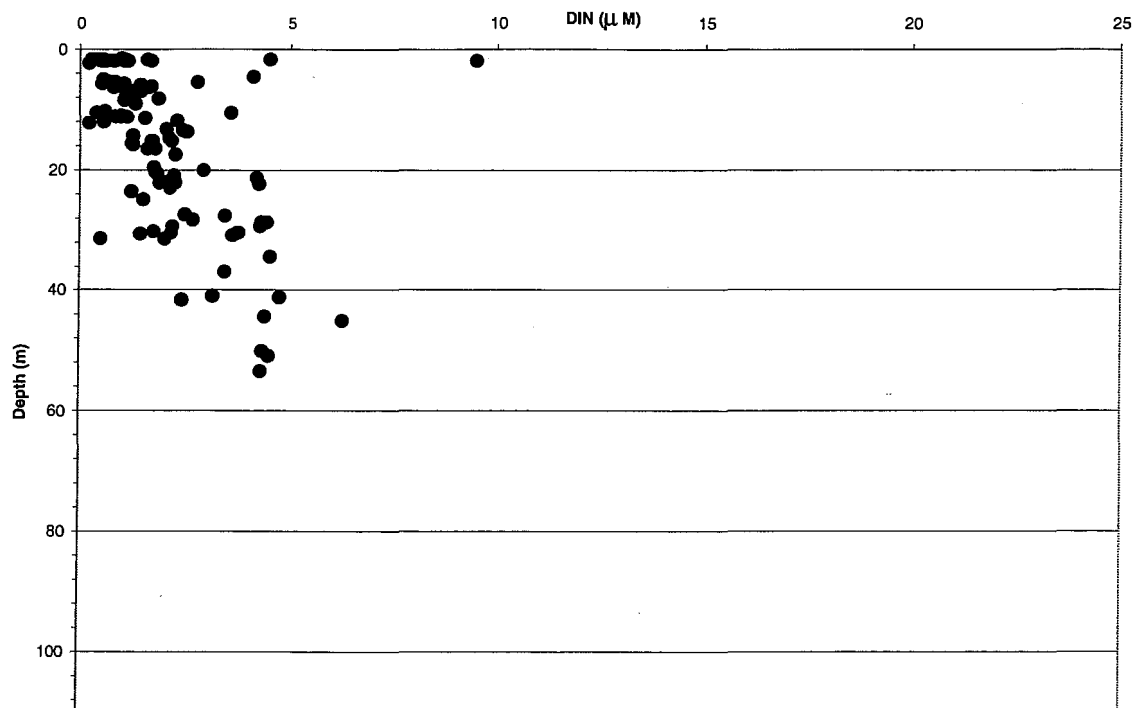


Figure D-76. Depth vs. Nutrient Plots for Nearfield Survey WN986, (May 98)

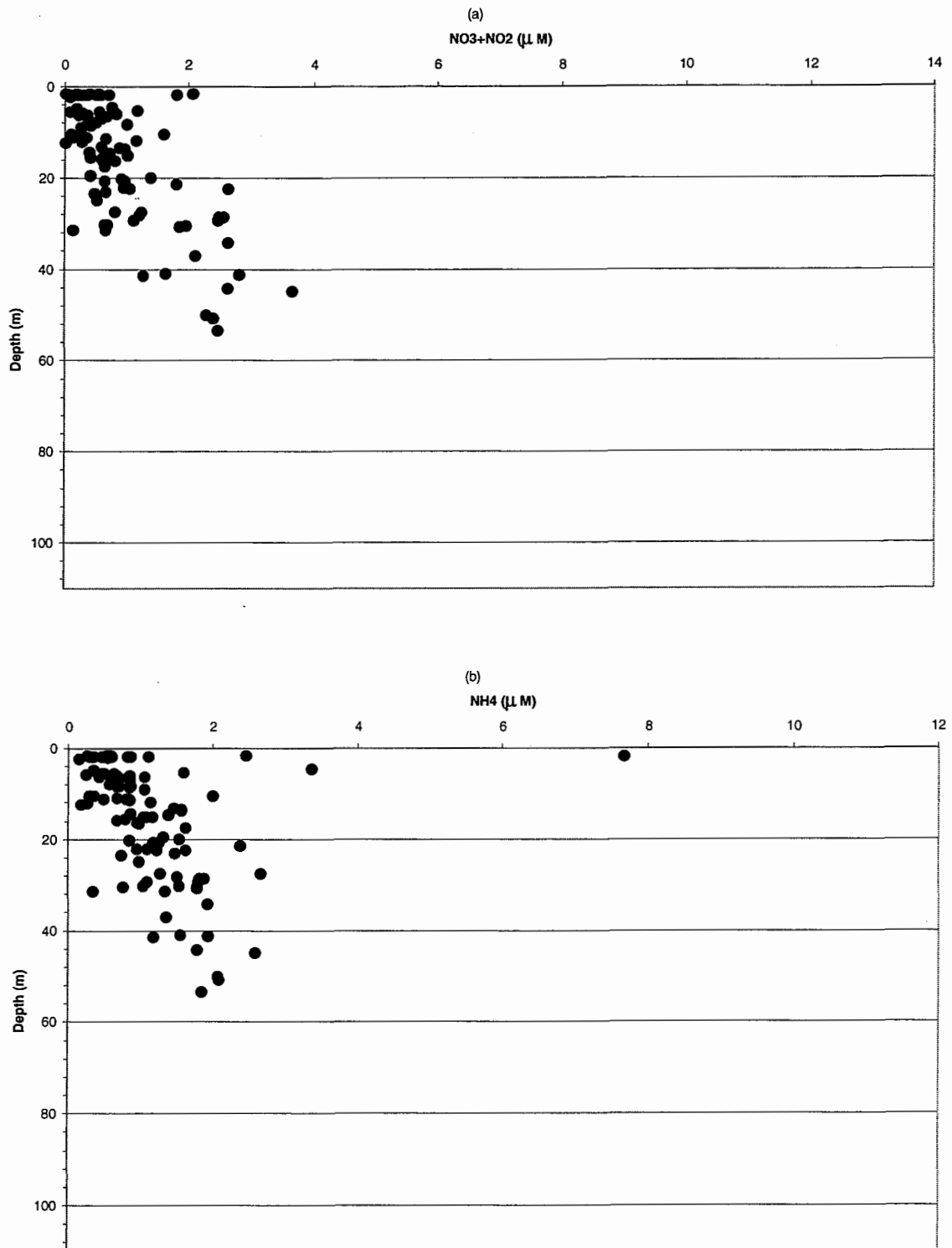


Figure D-77. Depth vs. Nutrient Plots for Nearfield Survey WN986, (May 98)

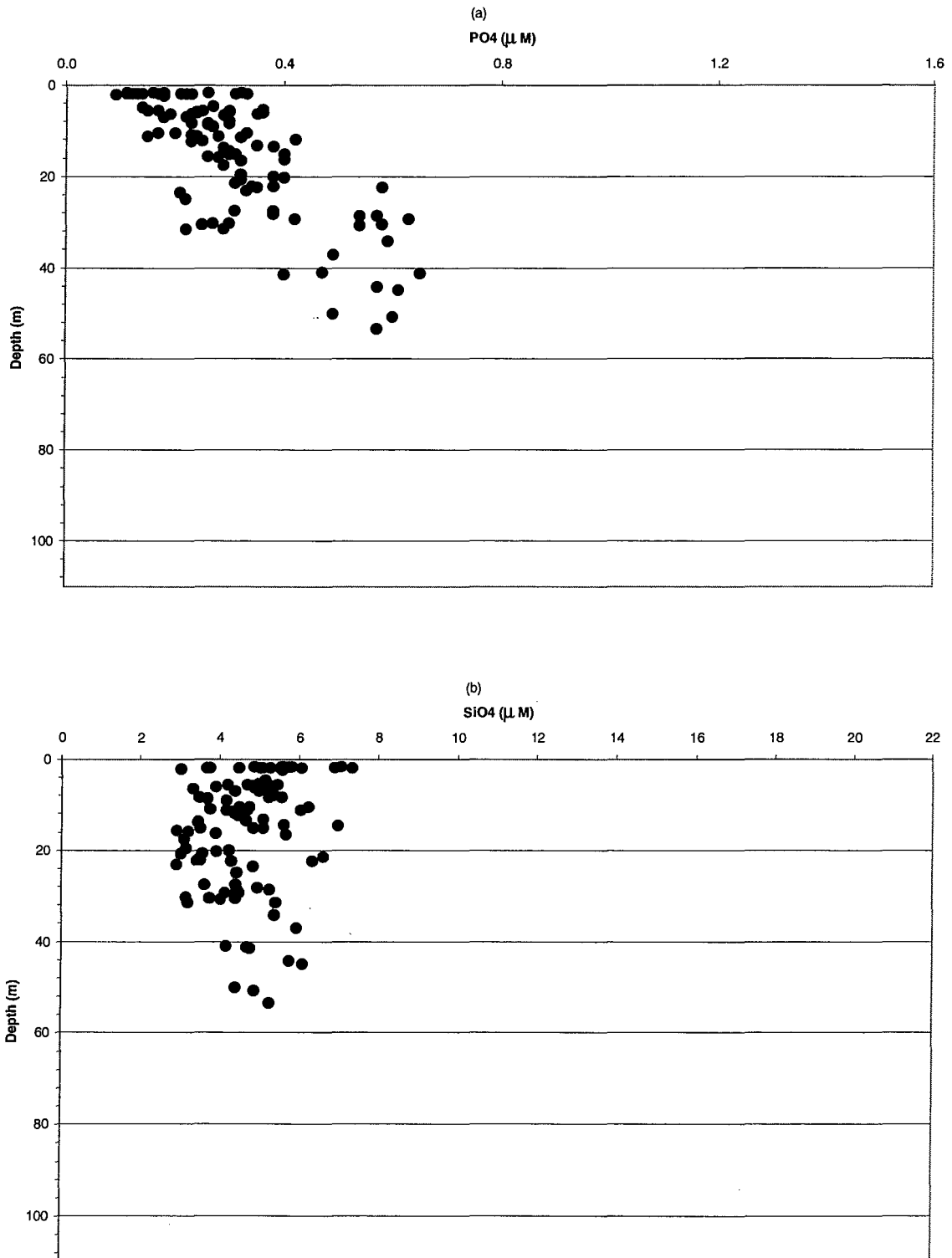


Figure D-78. Depth vs. Nutrient Plots for Nearfield Survey WN986, (May 98)

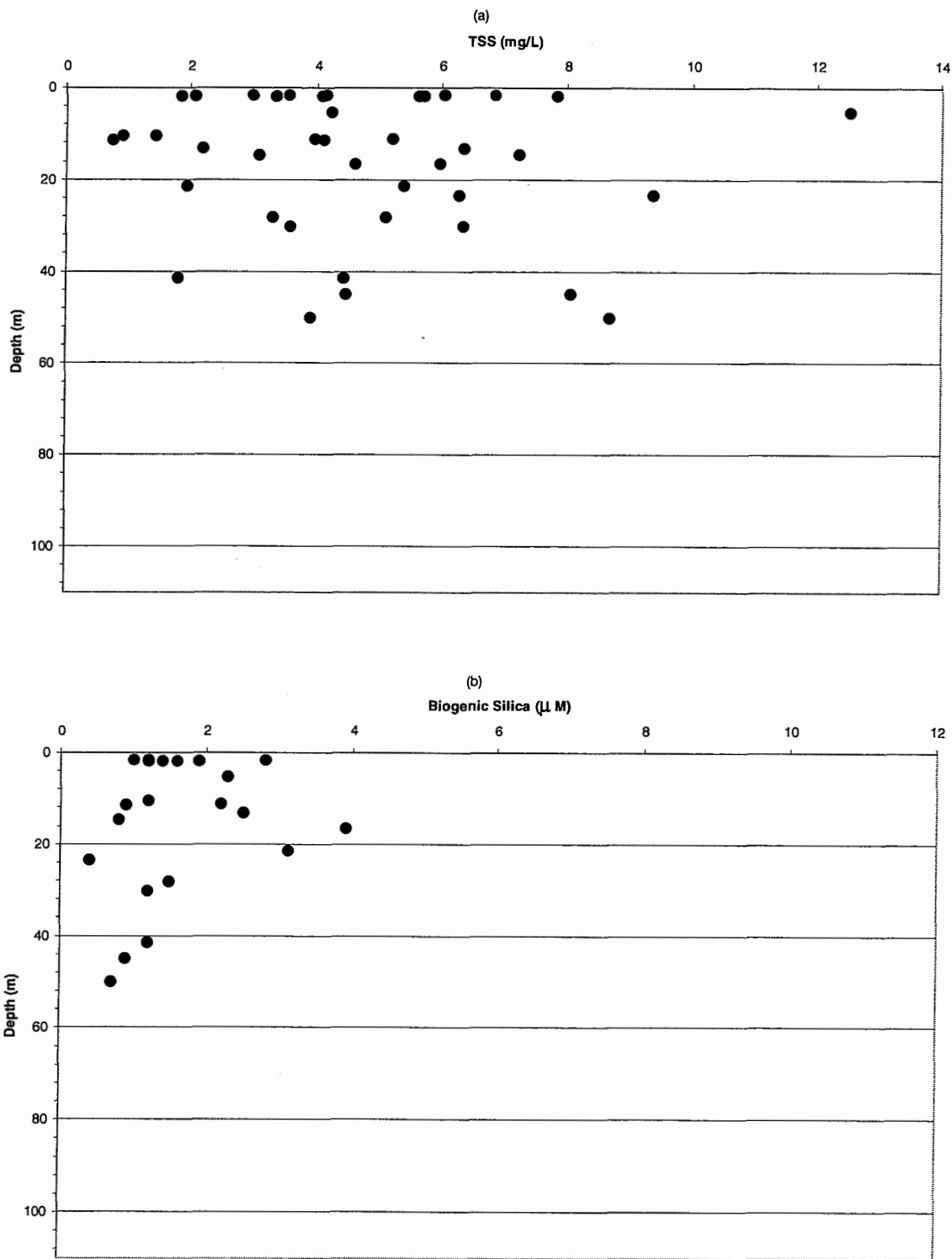


Figure D-79. Depth vs. Nutrient Plots for Nearfield Survey WN986, (May 98)

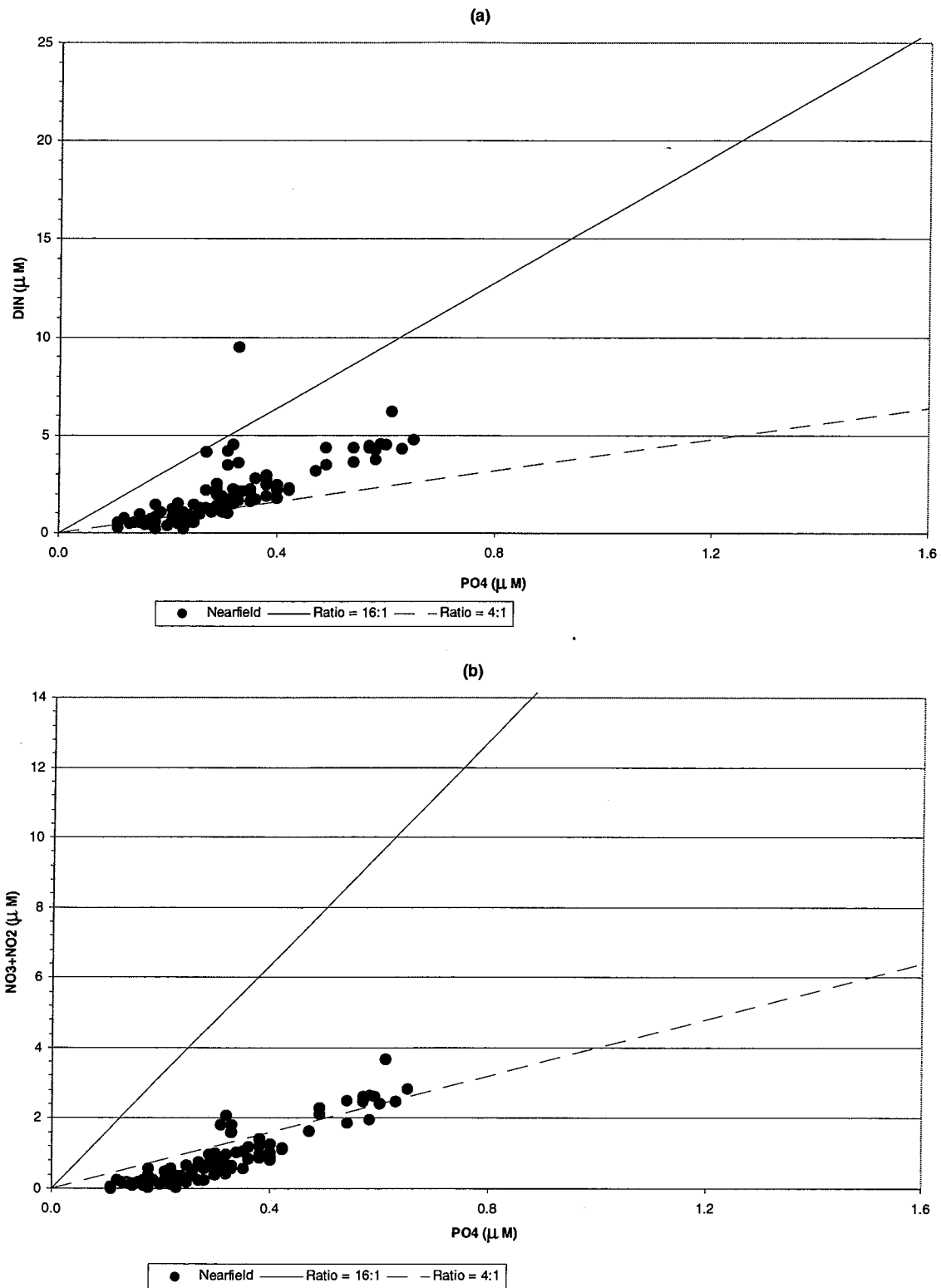


Figure D-80. Nutrient vs. Nutrient Plots for Nearfield Survey WN986, (May 98)

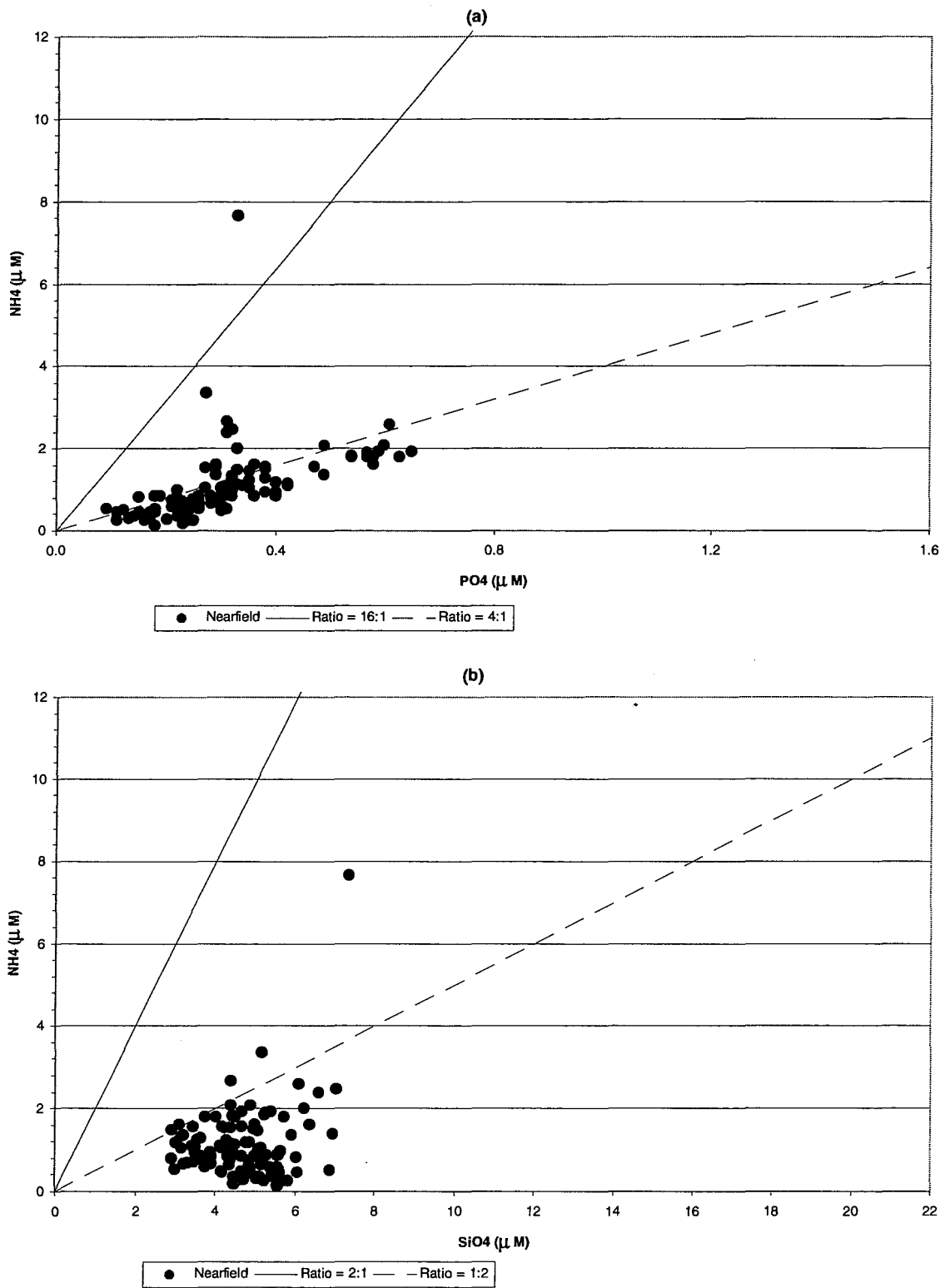


Figure D-81. Nutrient vs. Nutrient Plots for Nearfield Survey WN986, (May 98)

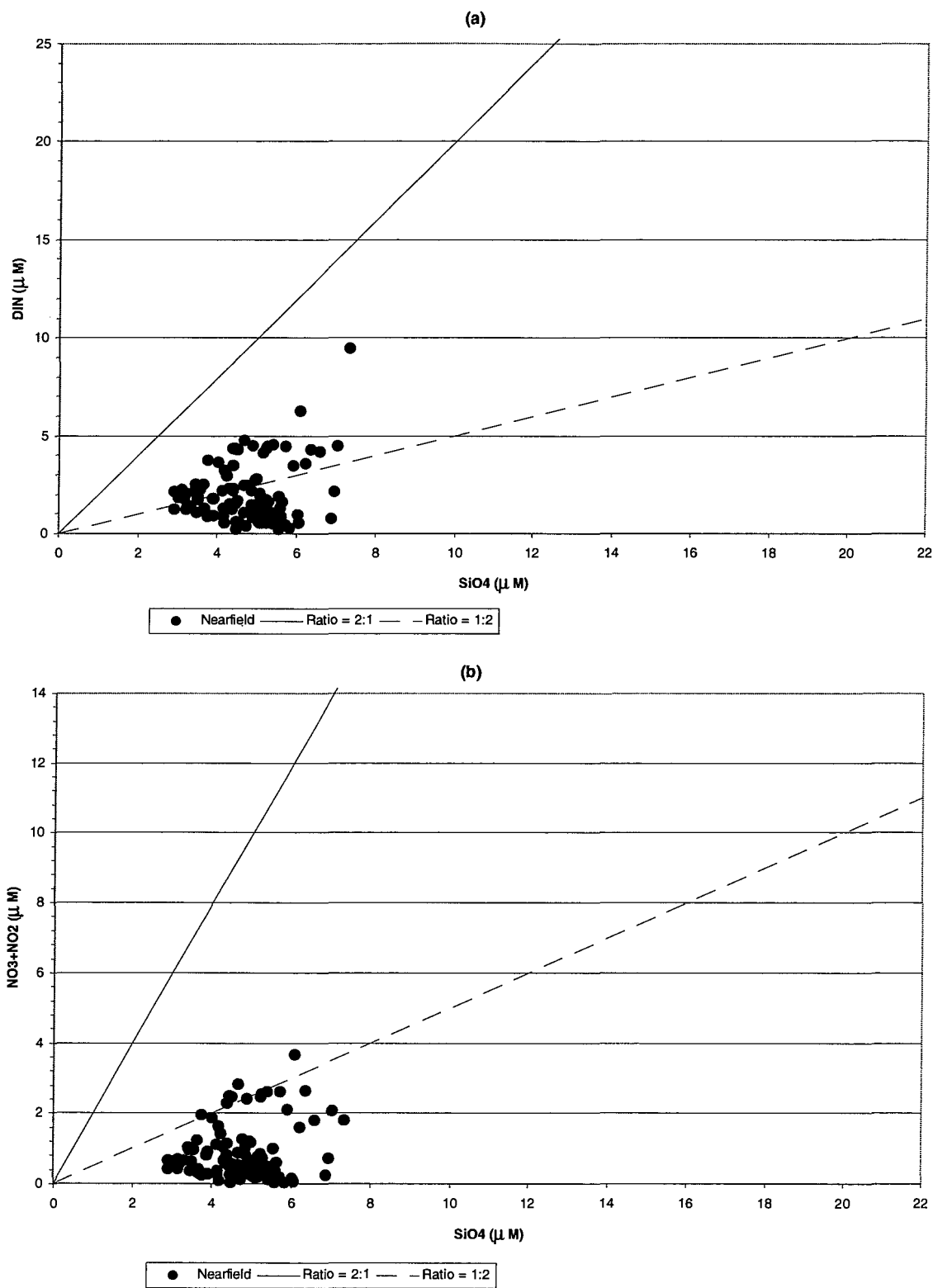


Figure D-82. Nutrient vs. Nutrient Plots for Nearfield Survey WN986, (May 98)

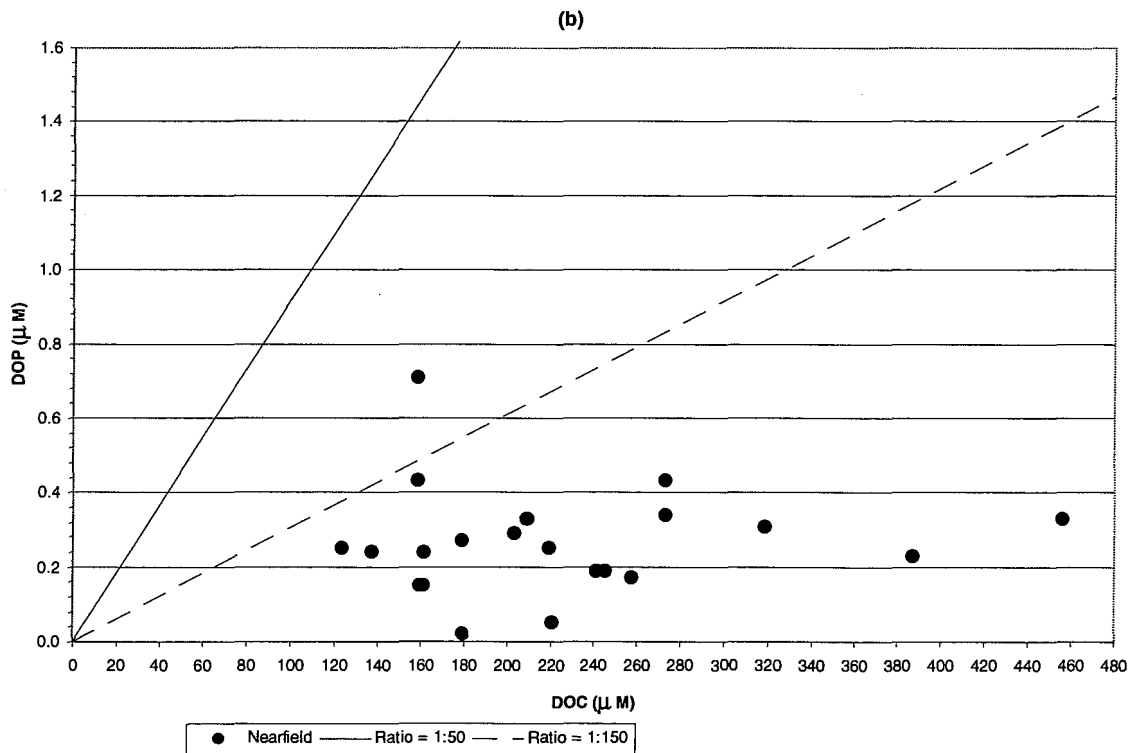
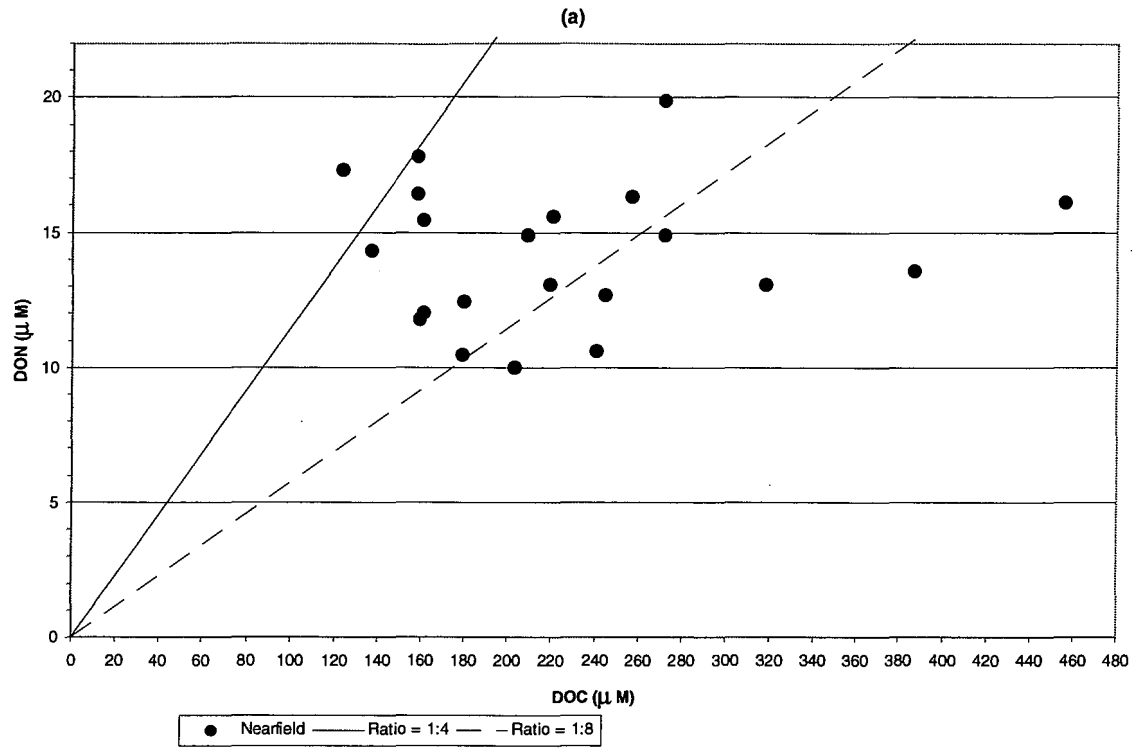


Figure D-83. Nutrient vs. Nutrient Plots for Nearfield Survey WN986, (May 98)

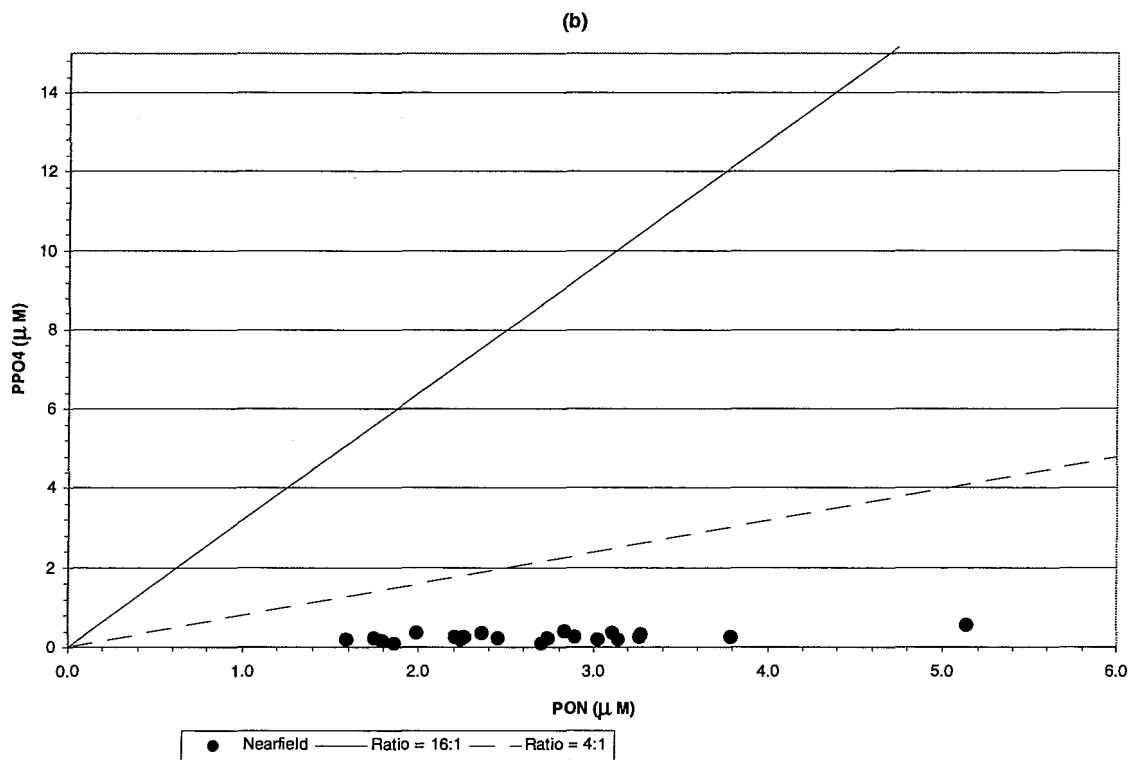
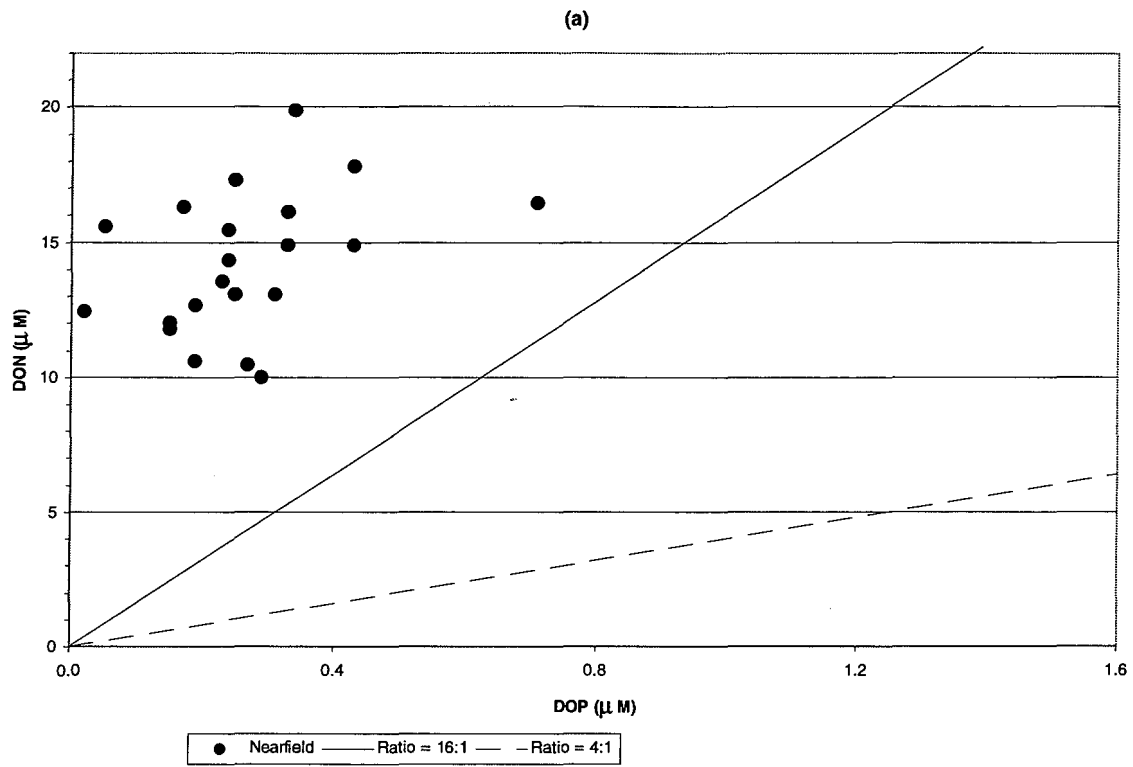


Figure D-84. Nutrient vs. Nutrient Plots for Nearfield Survey WN986, (May 98)

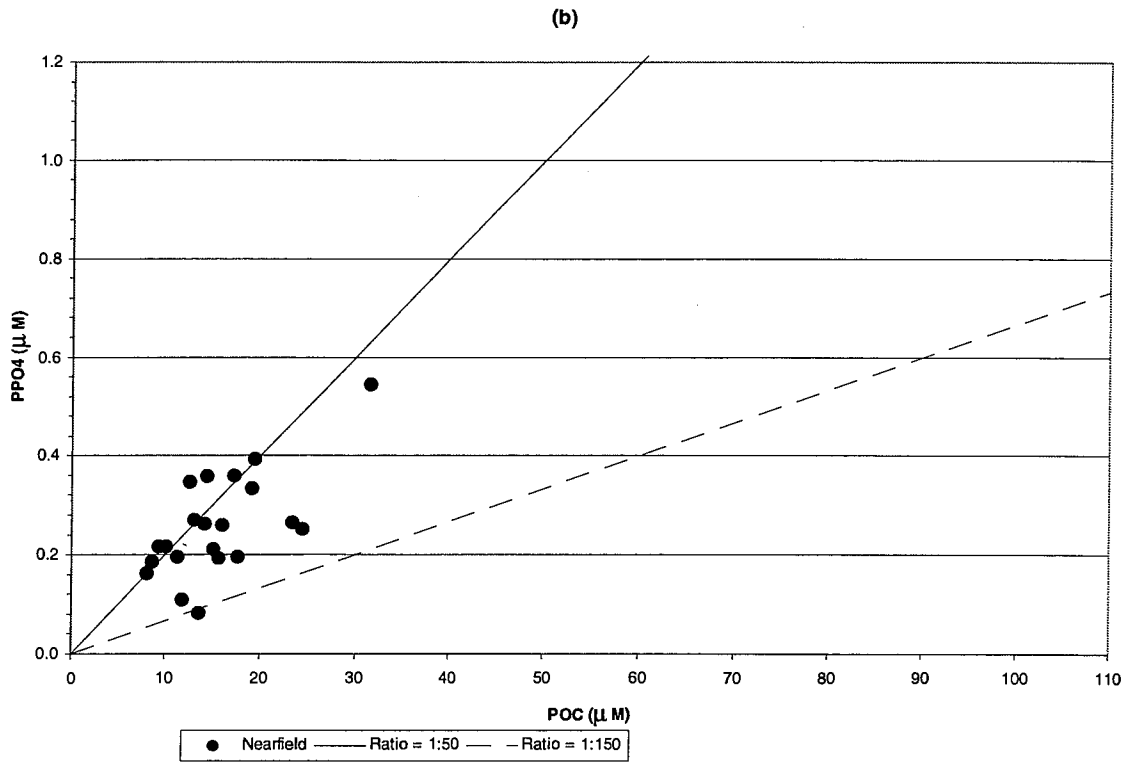
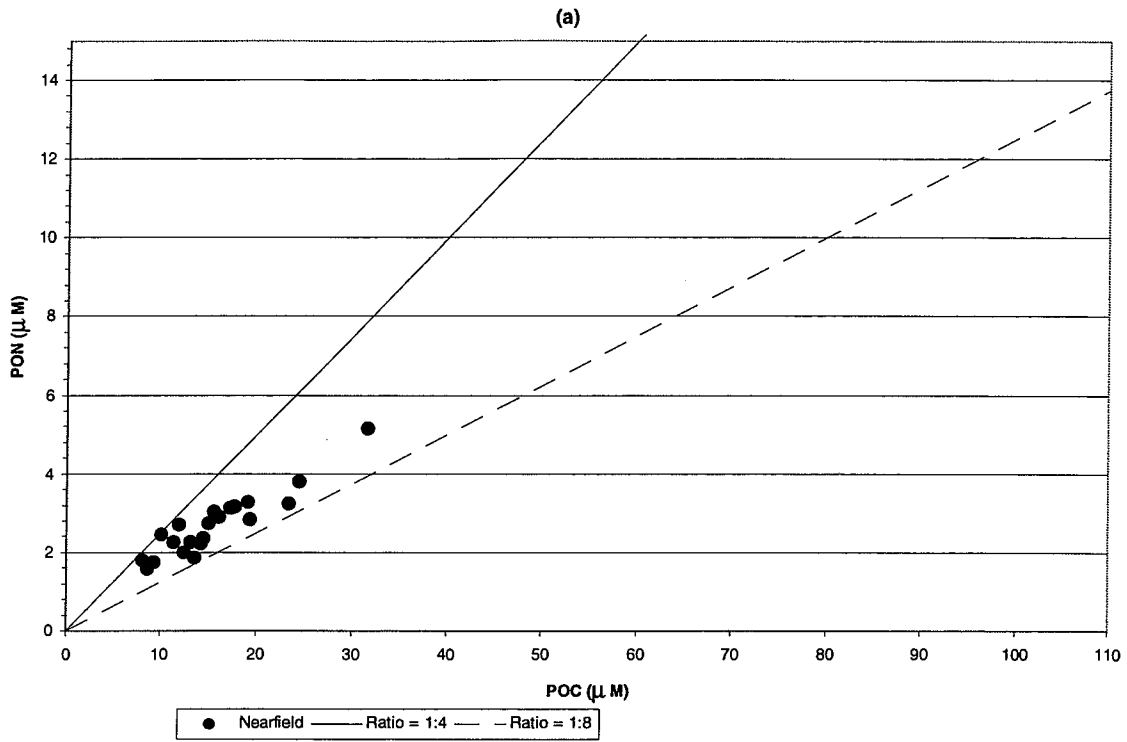


Figure D-85. Nutrient vs. Nutrient Plots for Nearfield Survey WN986, (May 98)

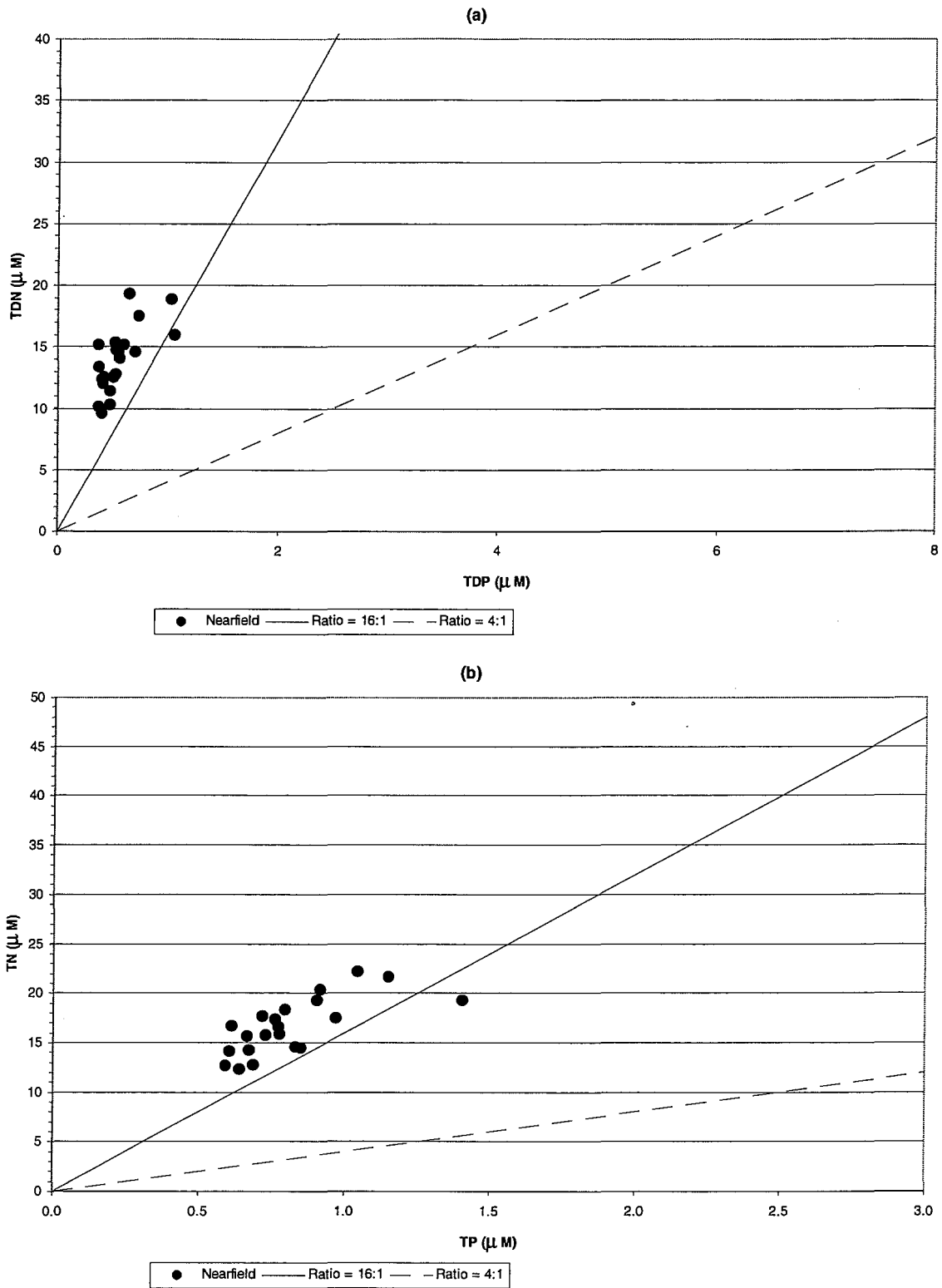


Figure D-86. Nutrient vs. Nutrient Plots for Nearfield Survey WN986, (May 98)

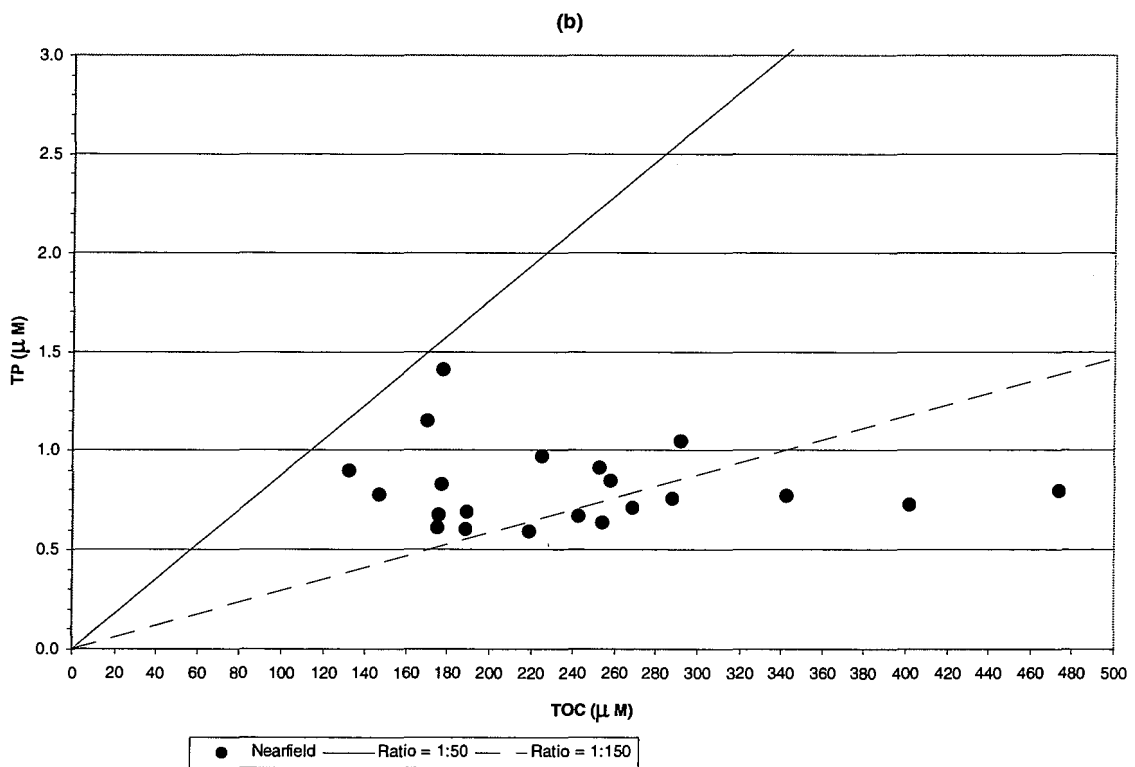
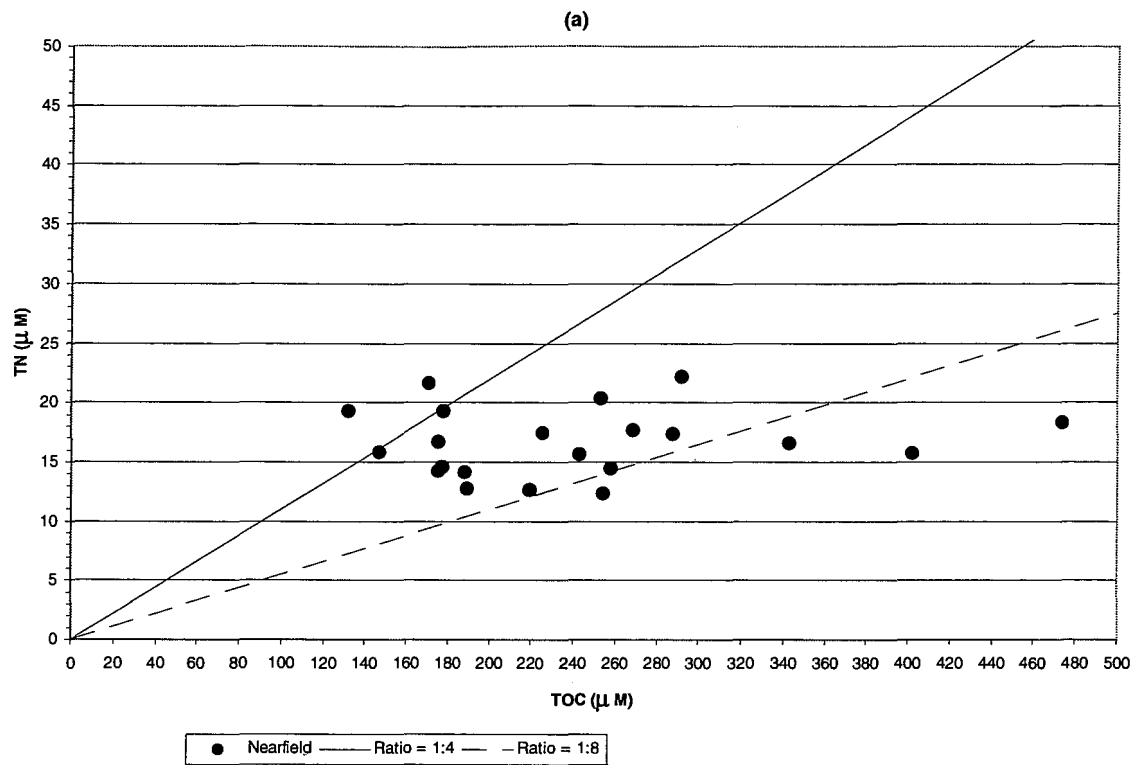


Figure D-87. Nutrient vs. Nutrient Plots for Nearfield Survey WN986, (May 98)

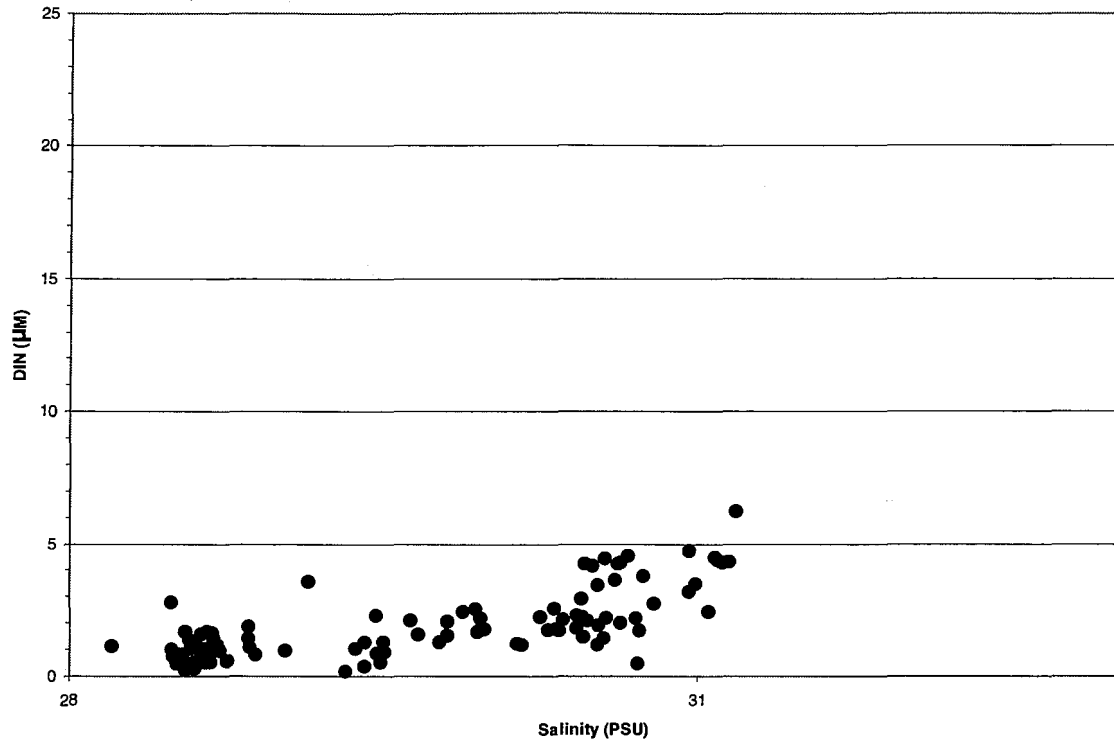


Figure D-88. Nutrient vs. Salinity Plots for Nearfield Survey WN986, (May 98)

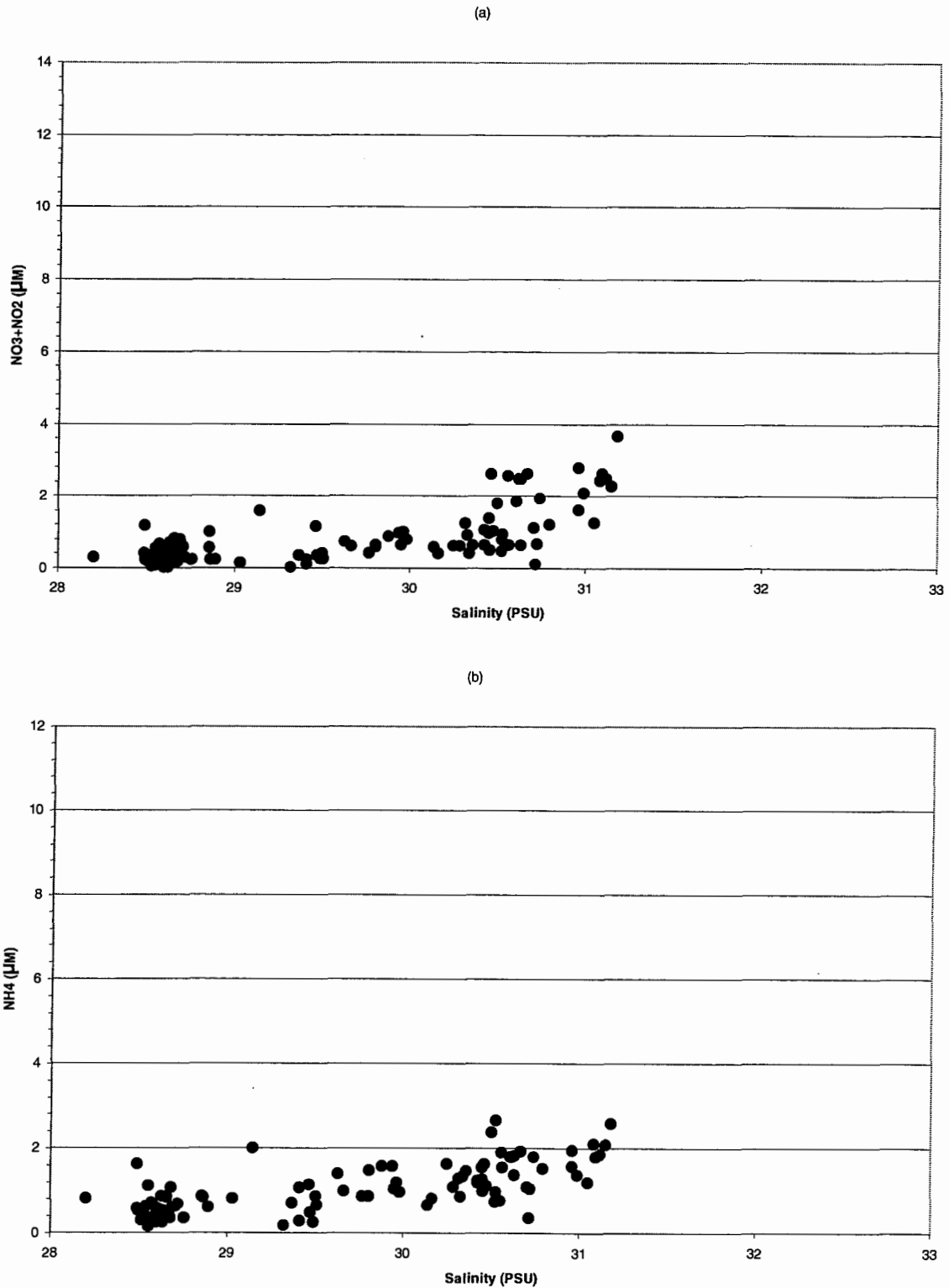


Figure D-89. Nutrient vs. Salinity Plots for Nearfield Survey WN986, (May 98)

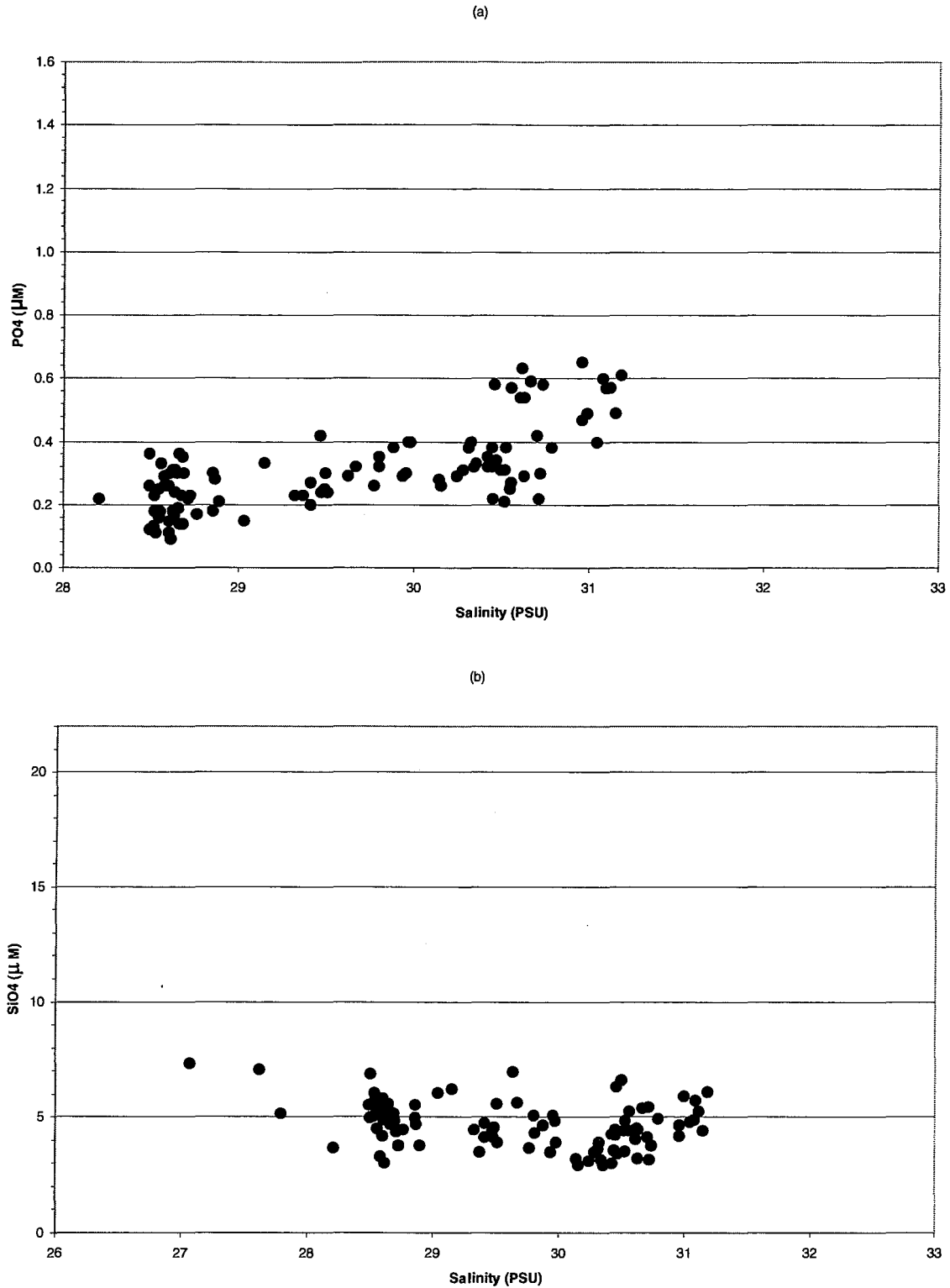


Figure D-90. Nutrient vs. Salinity Plots for Nearfield Survey WN986, (May 98)

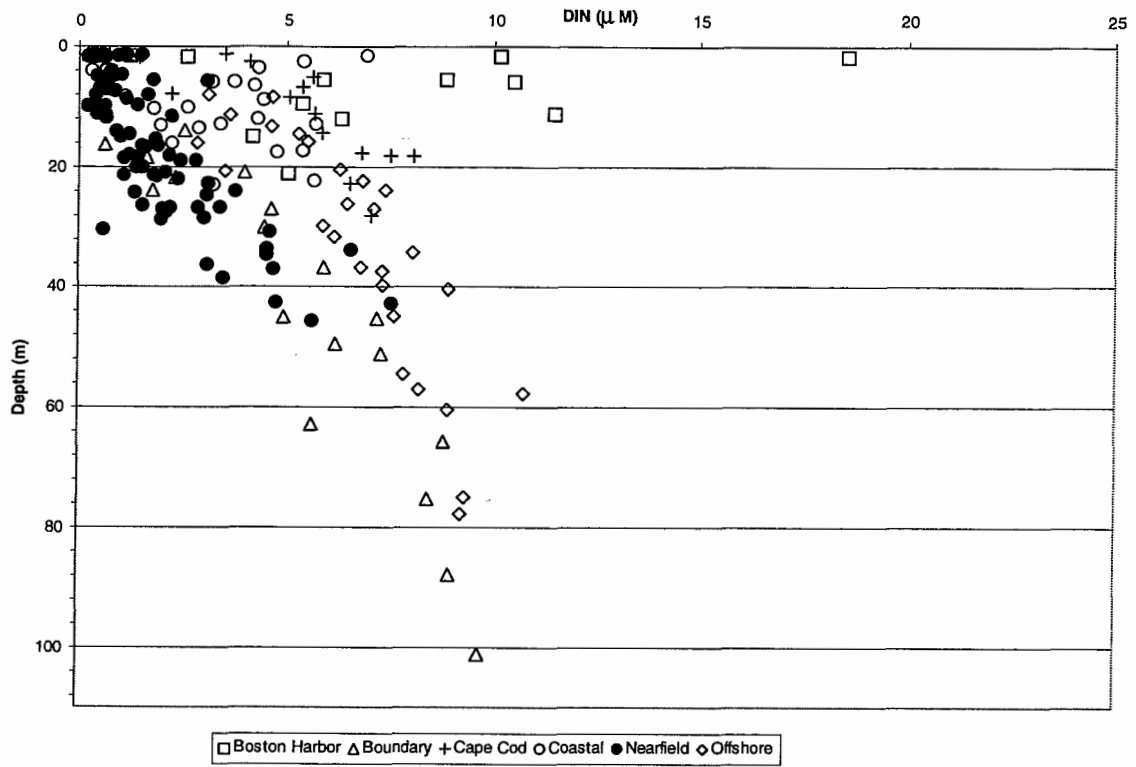


Figure D-91. Depth vs. Nutrient Plots for Farfield Survey WF987, (Jun 98)

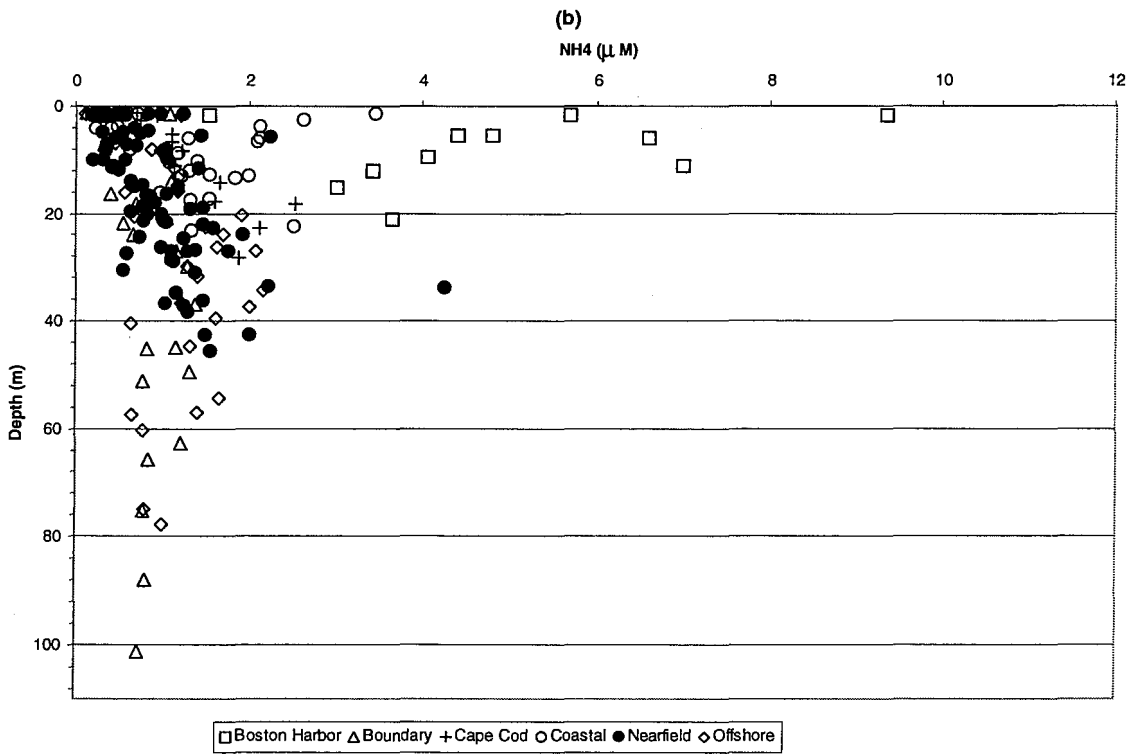
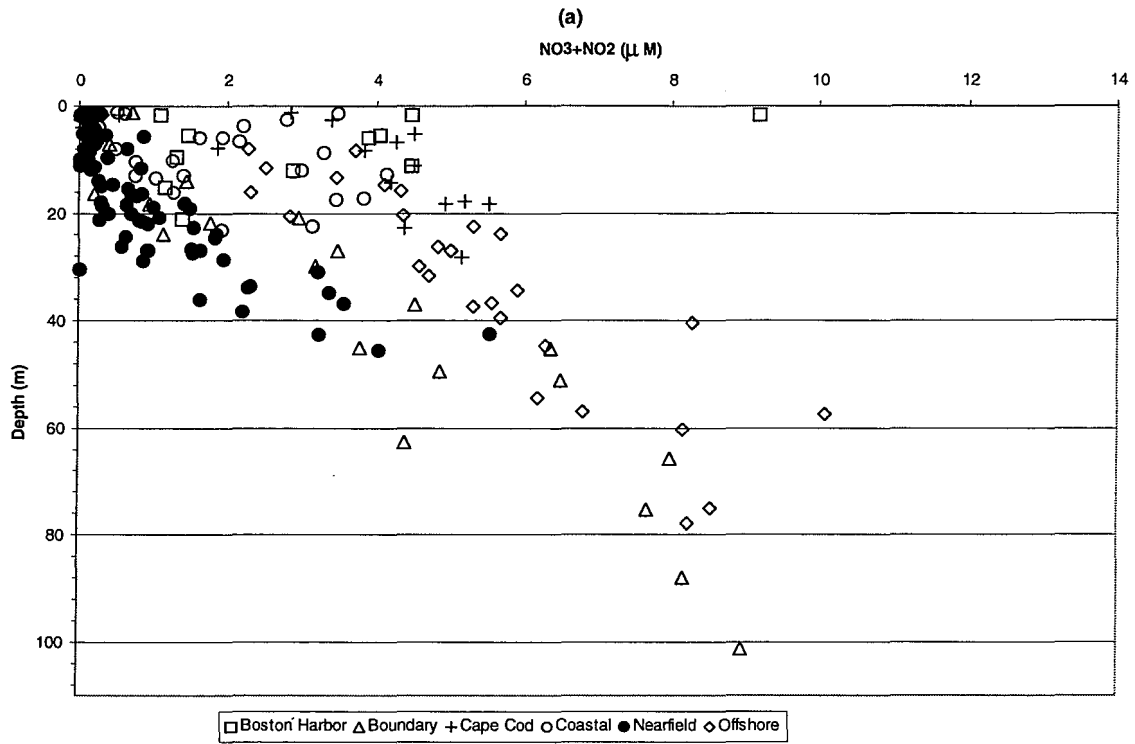


Figure D-92. Depth vs. Nutrient Plots for Farfield Survey WF987, (Jun 98)

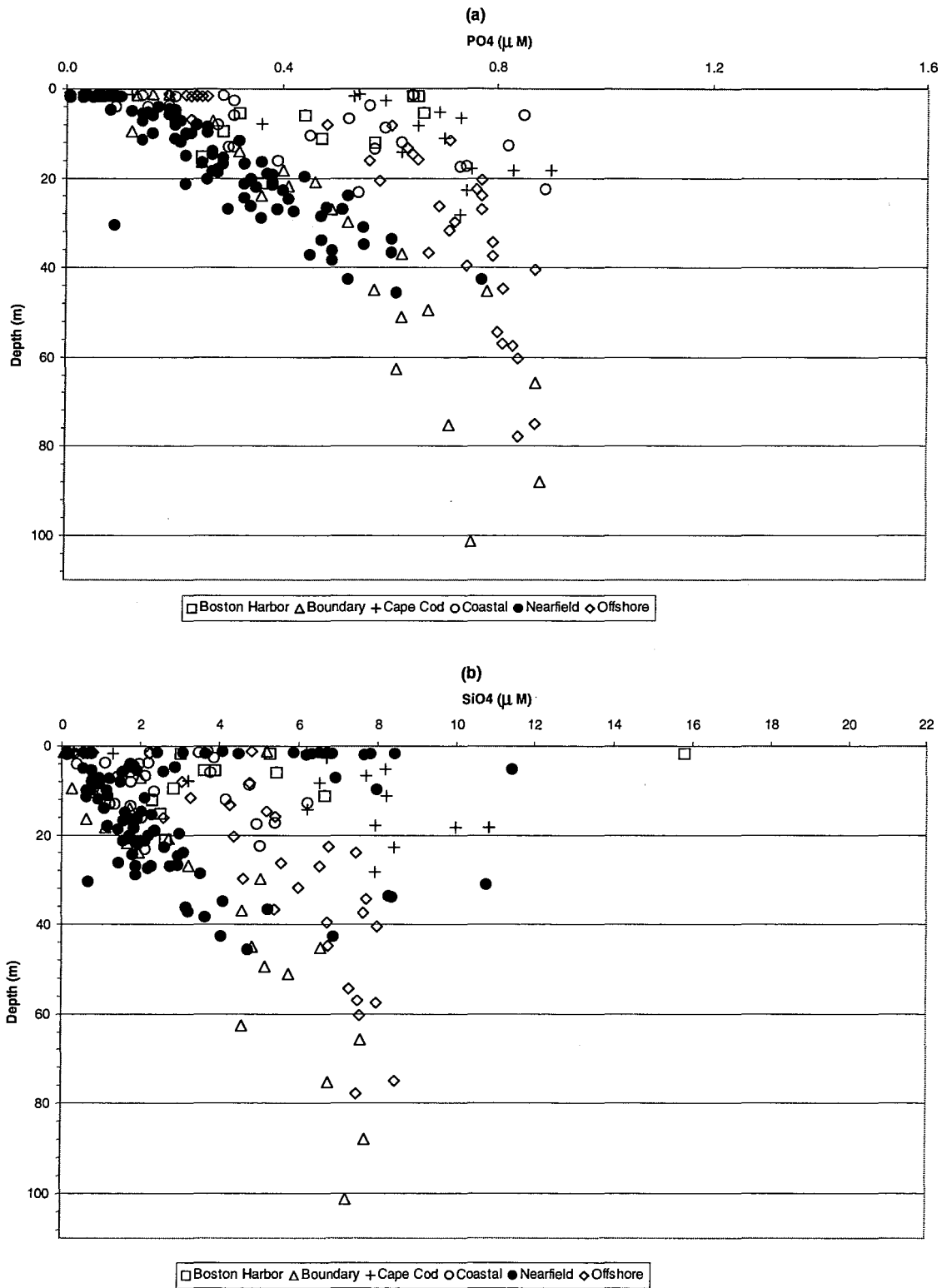


Figure D-93. Depth vs. Nutrient Plots for Farfield Survey WF987, (Jun 98)

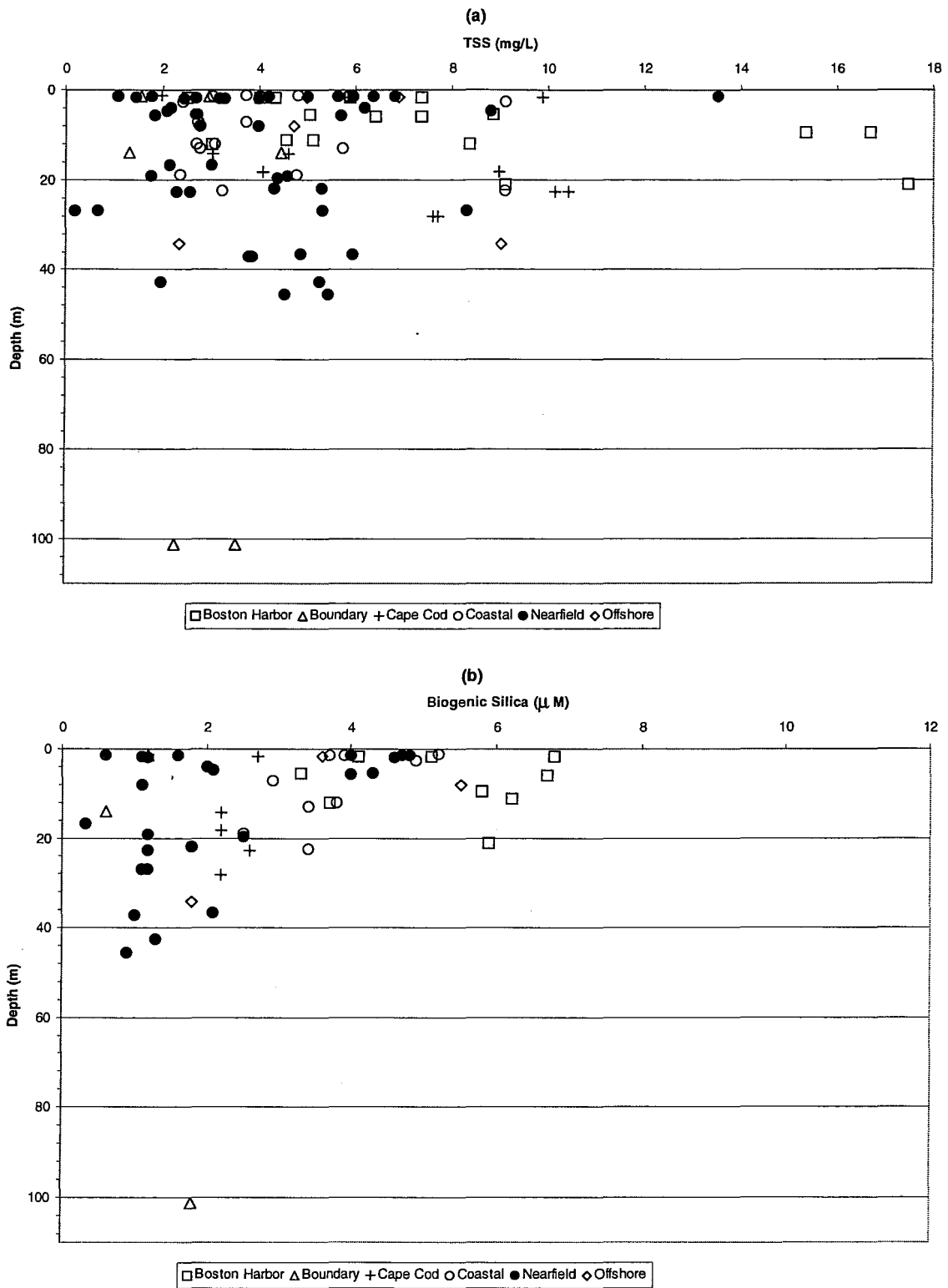


Figure D-94. Depth vs. Nutrient Plots for Farfield Survey WF987, (Jun 98)

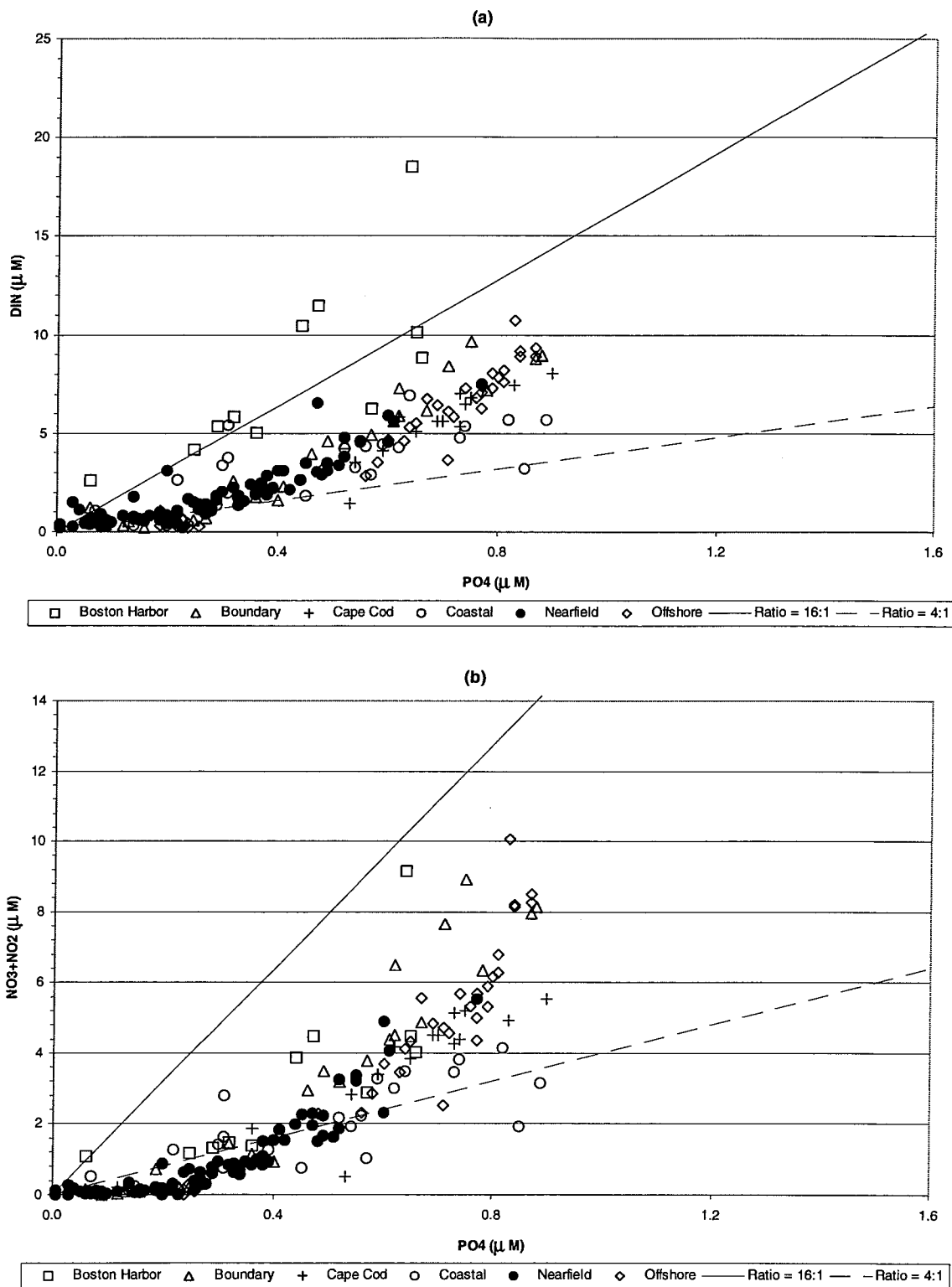


Figure D-95. Nutrient vs. Nutrient Plots for Farfield Survey WF987, (Jun 98)

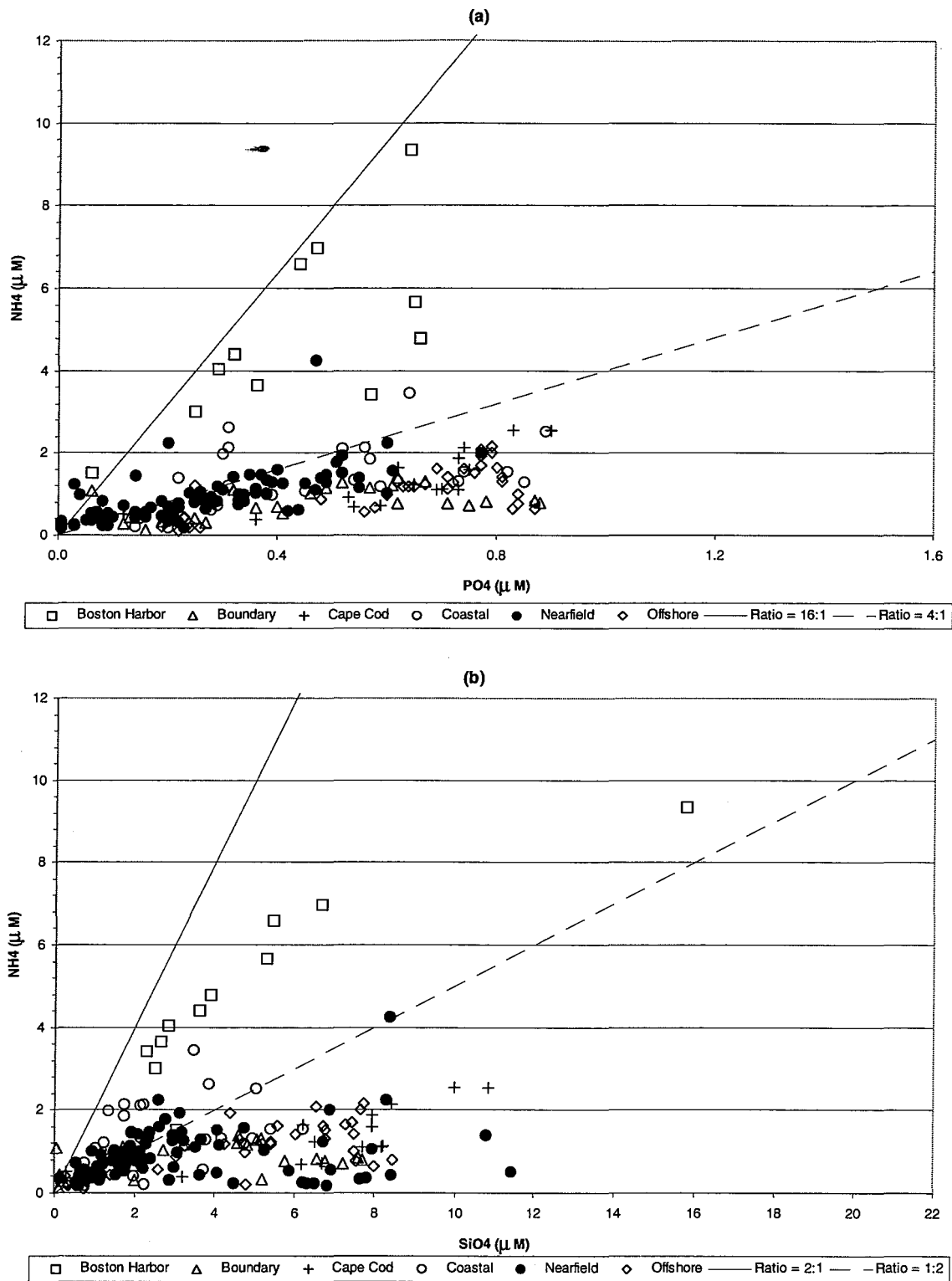


Figure D-96. Nutrient vs. Nutrient Plots for Farfield Survey WF987, (Jun 98)

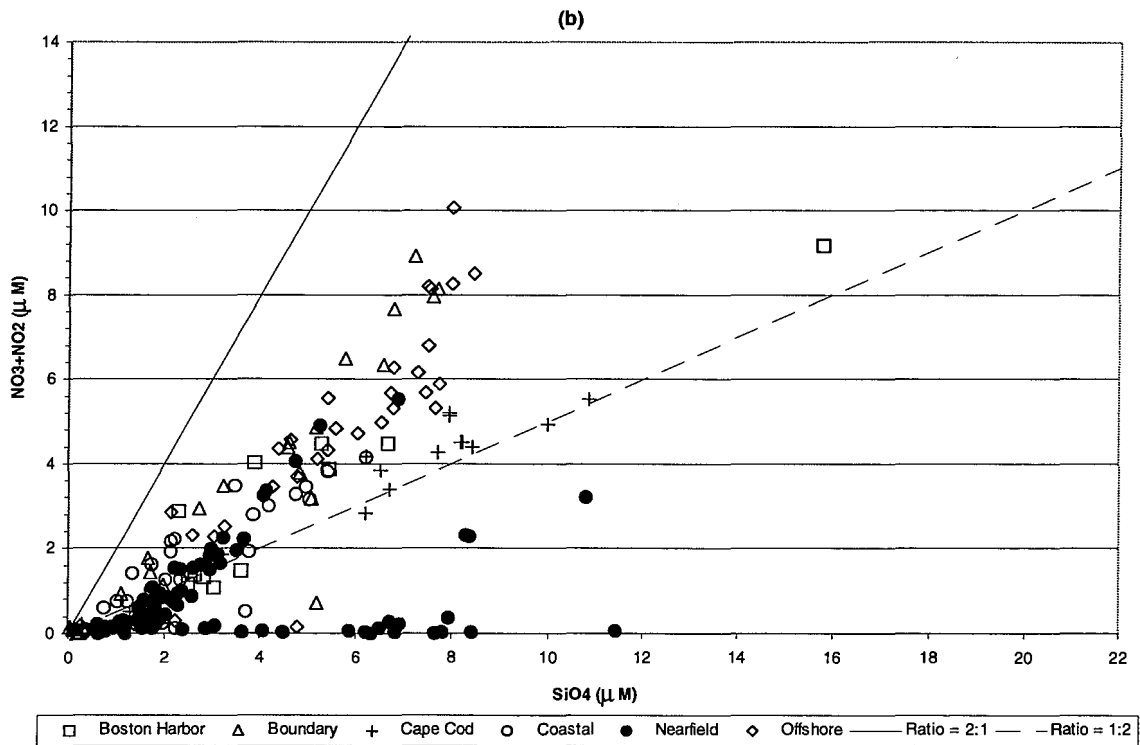
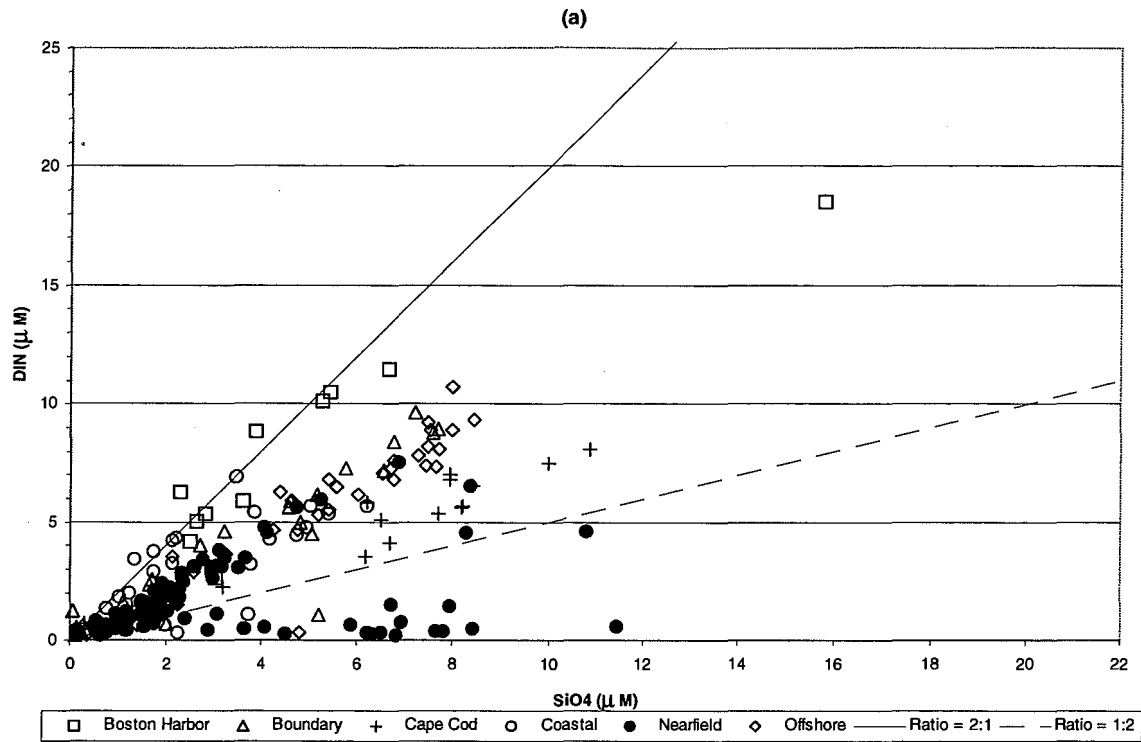


Figure D-97. Nutrient vs. Nutrient Plots for Farfield Survey WF987, (Jun 98)

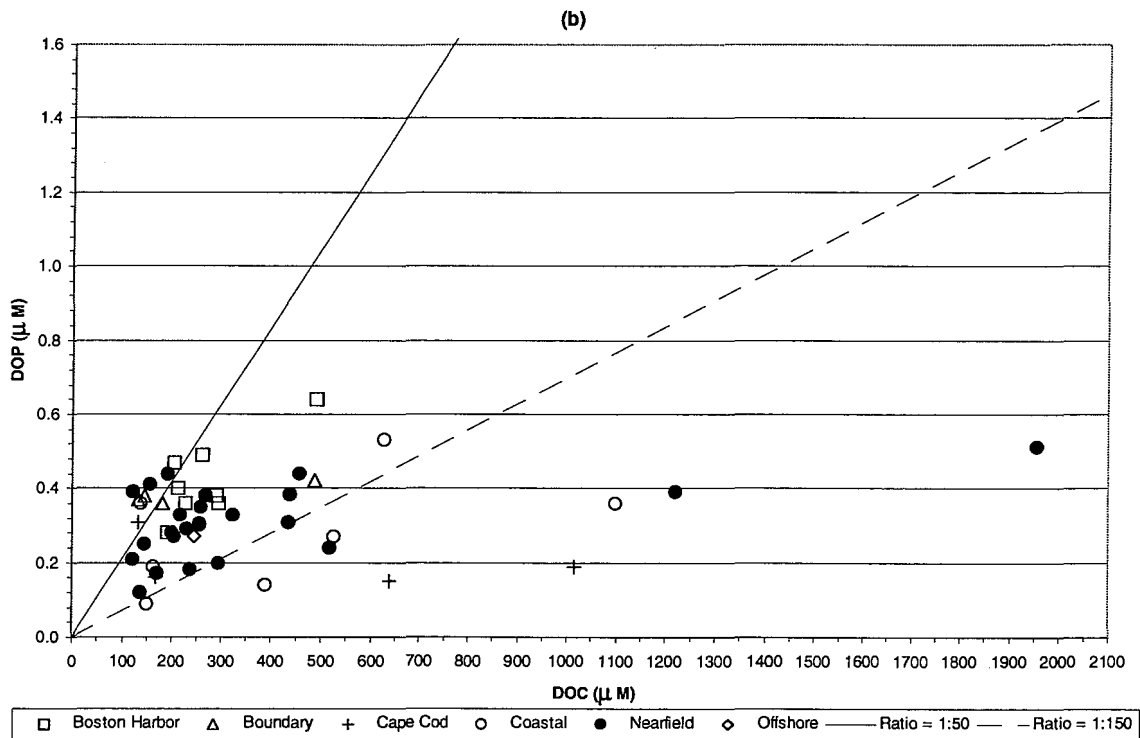
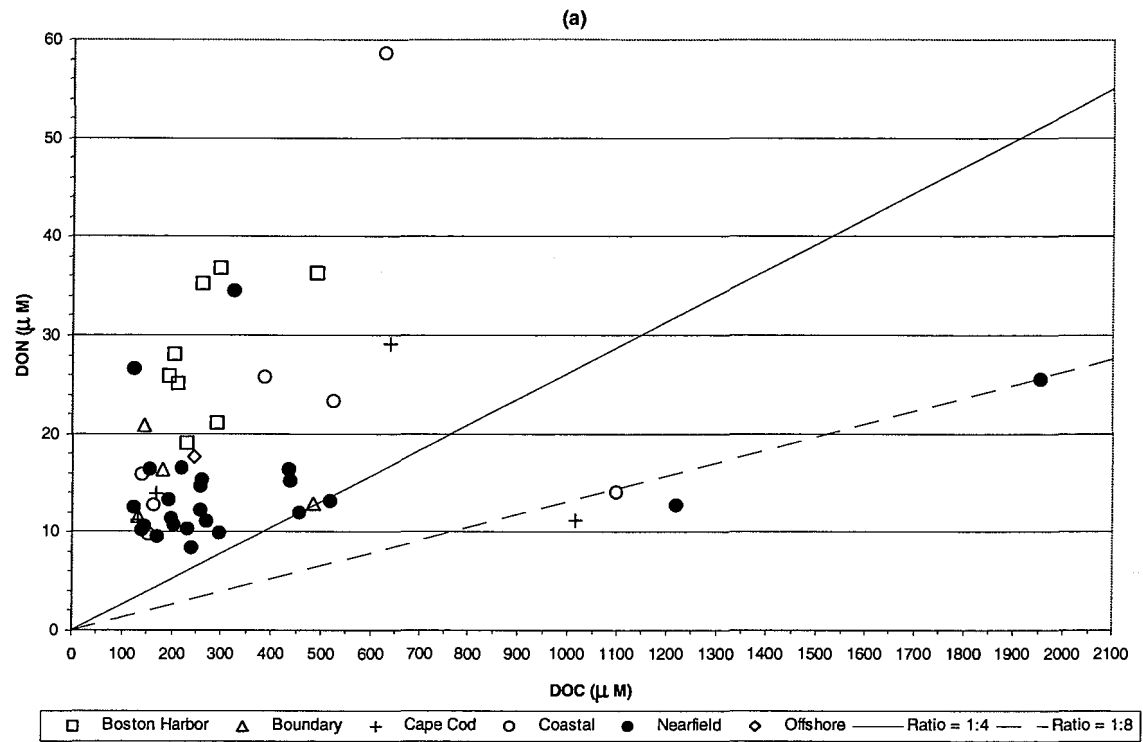


Figure D-98. Nutrient vs. Nutrient Plots for Farfield Survey WF987, (Jun 98)

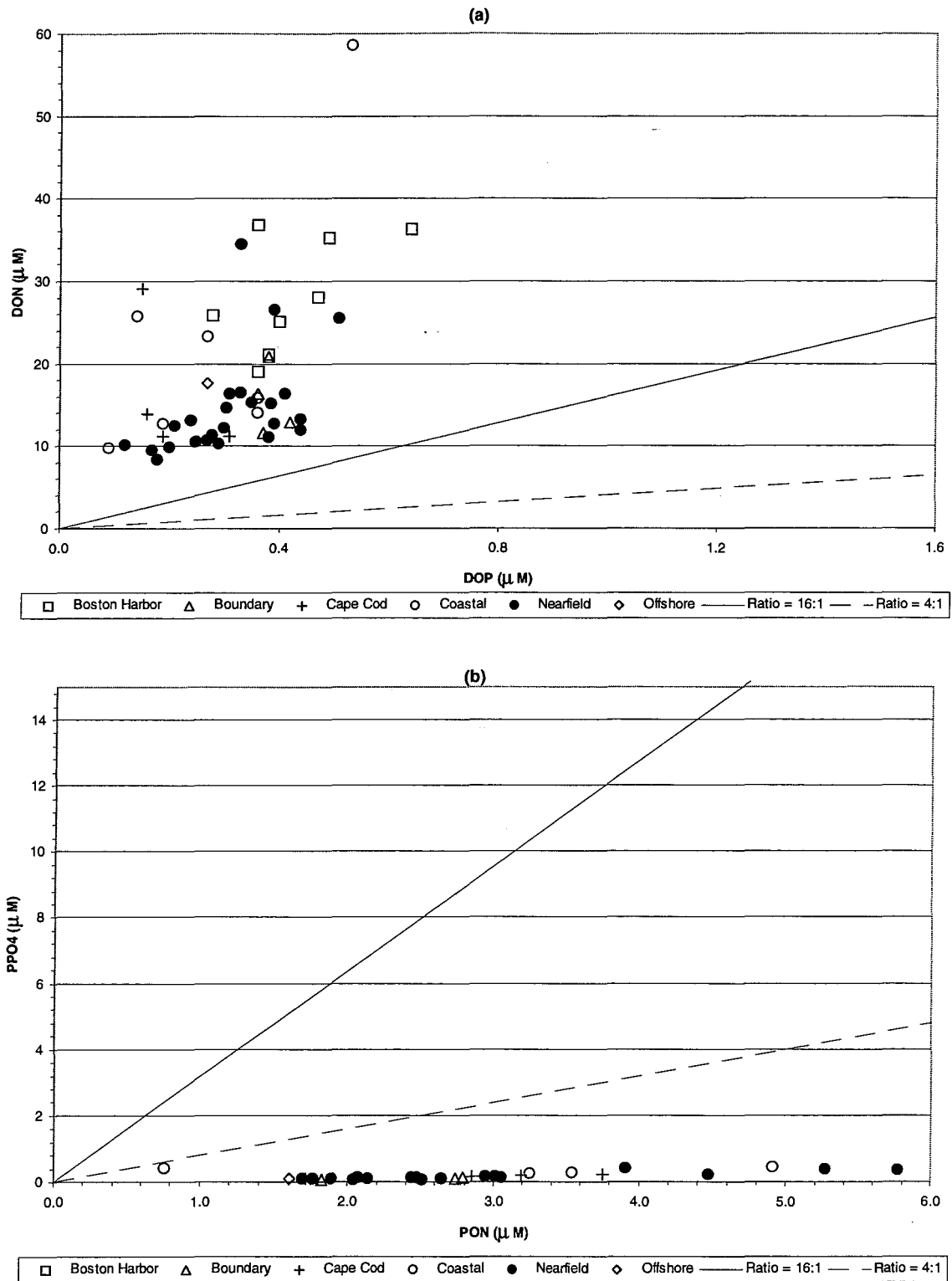


Figure D-99. Nutrient vs. Nutrient Plots for Farfield Survey WF987, (Jun 98)

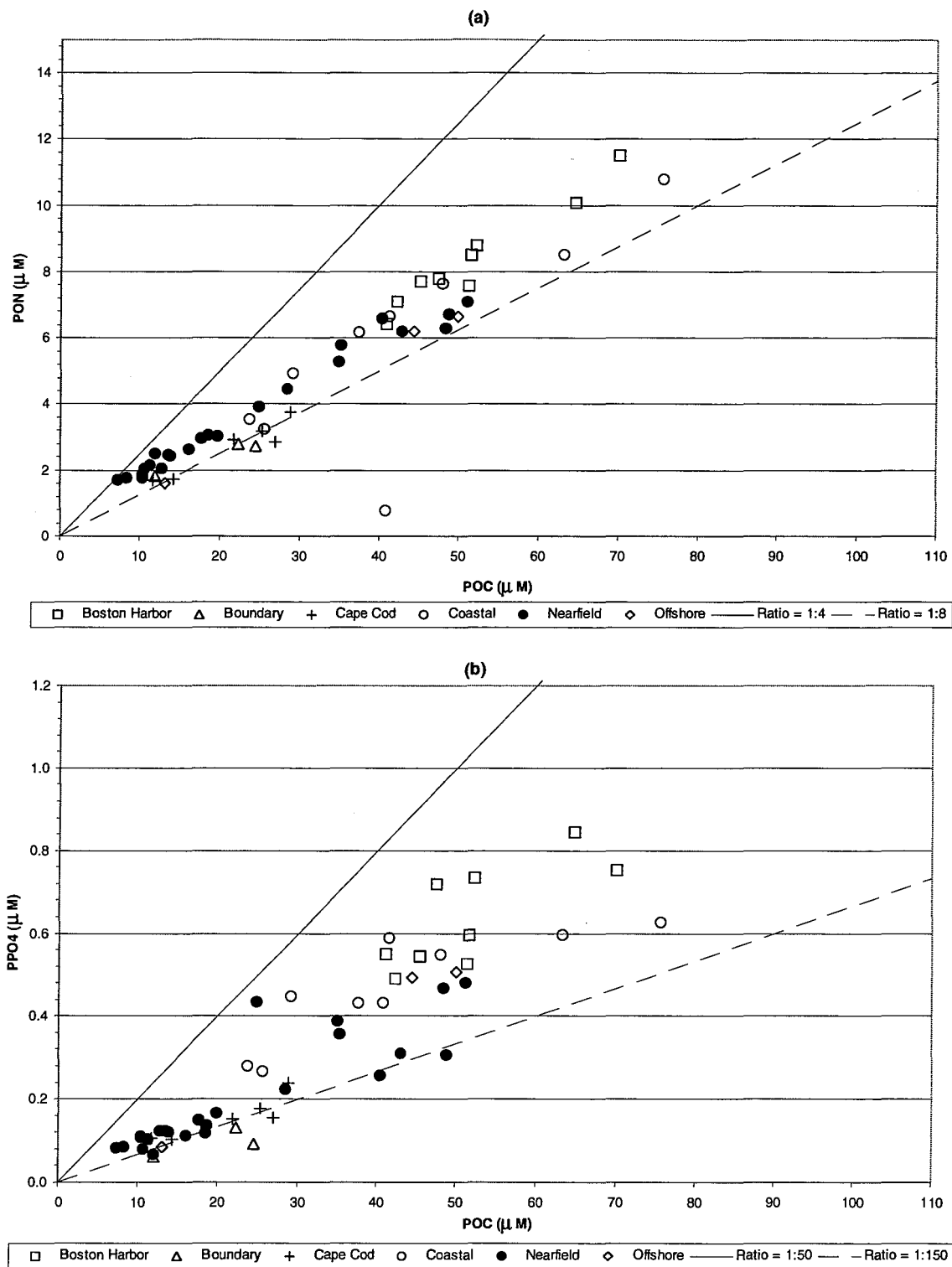


Figure D-100. Nutrient vs. Nutrient Plots for Farfield Survey WF987, (Jun 98)

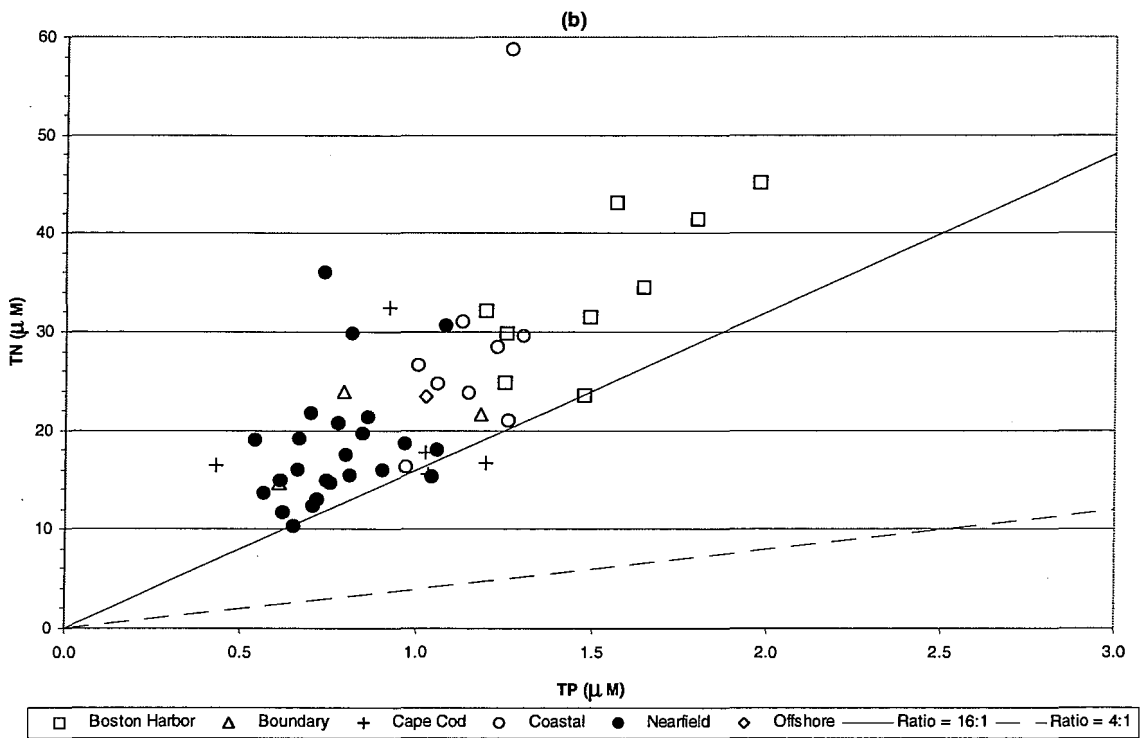
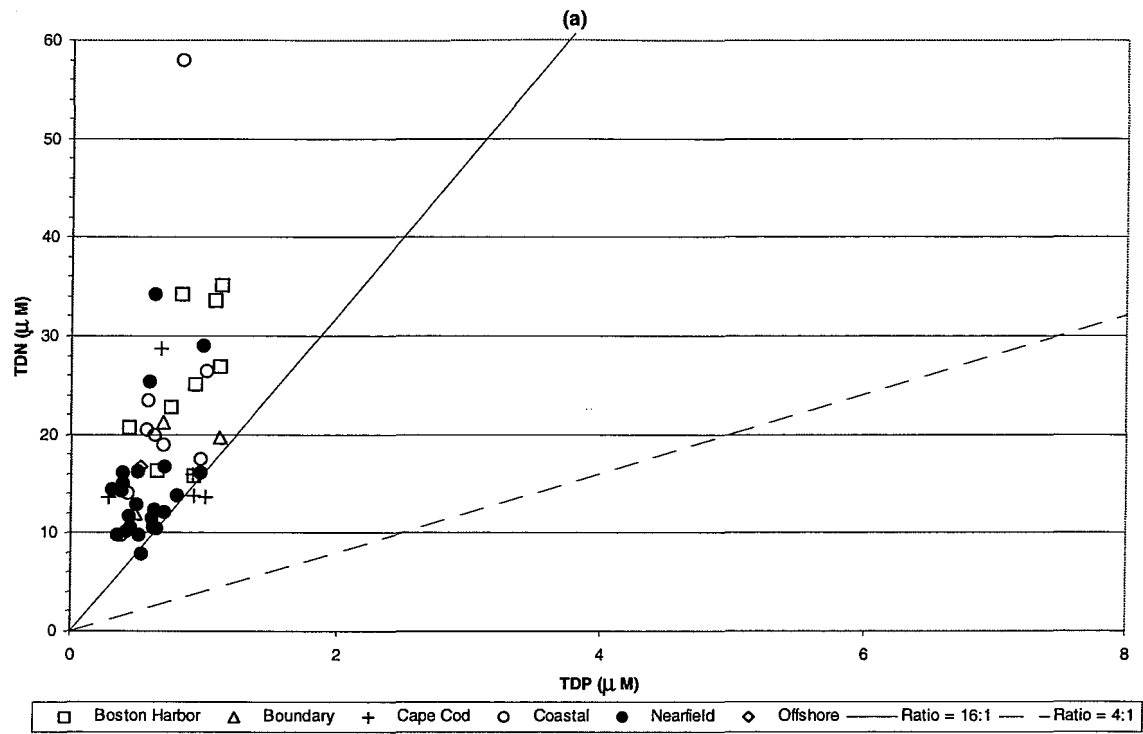


Figure D-101. Nutrient vs. Nutrient Plots for Farfield Survey WF987, (Jun 98)

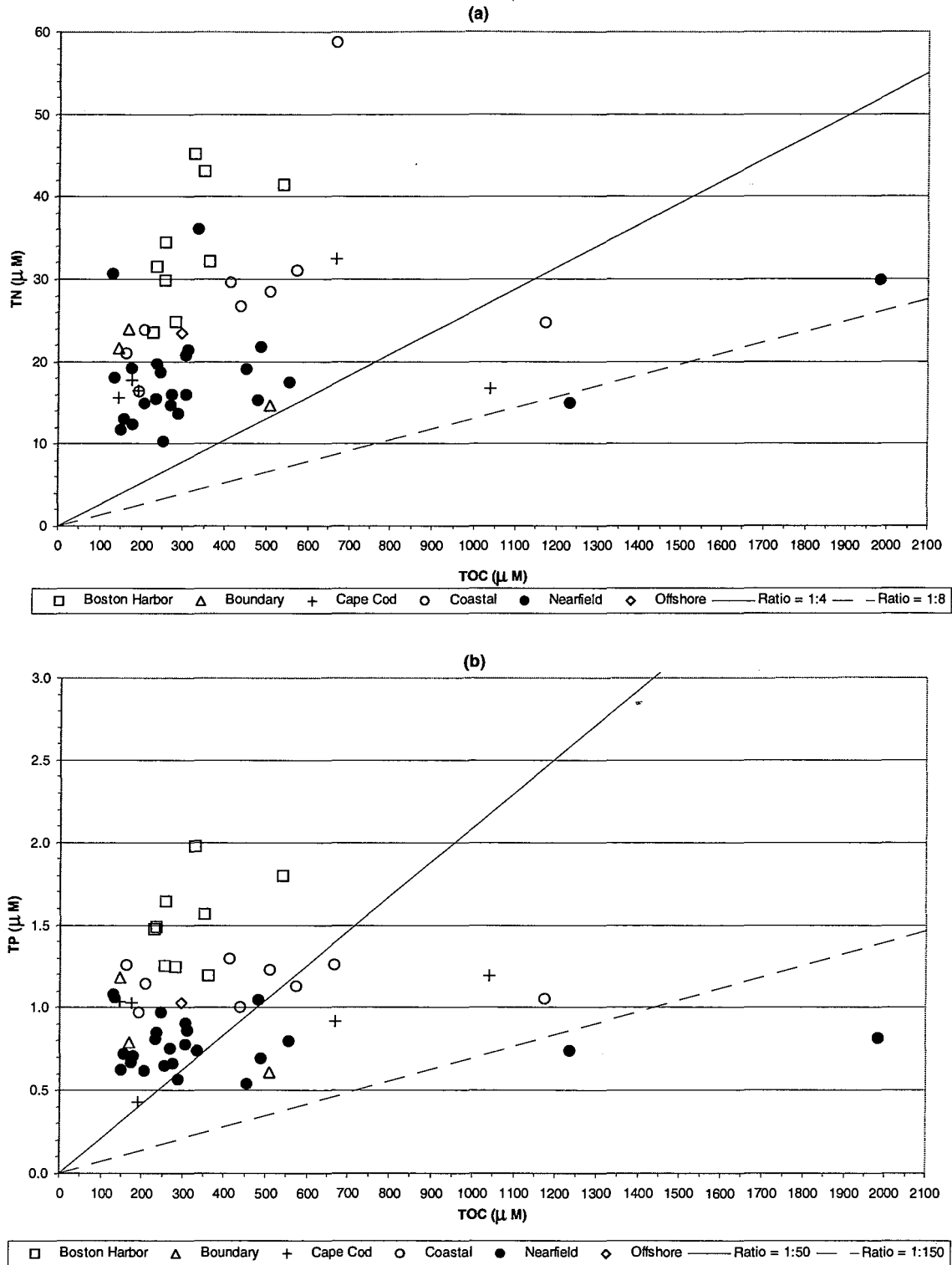


Figure D-102. Nutrient vs. Nutrient Plots for Farfield Survey WF987, (Jun 98)

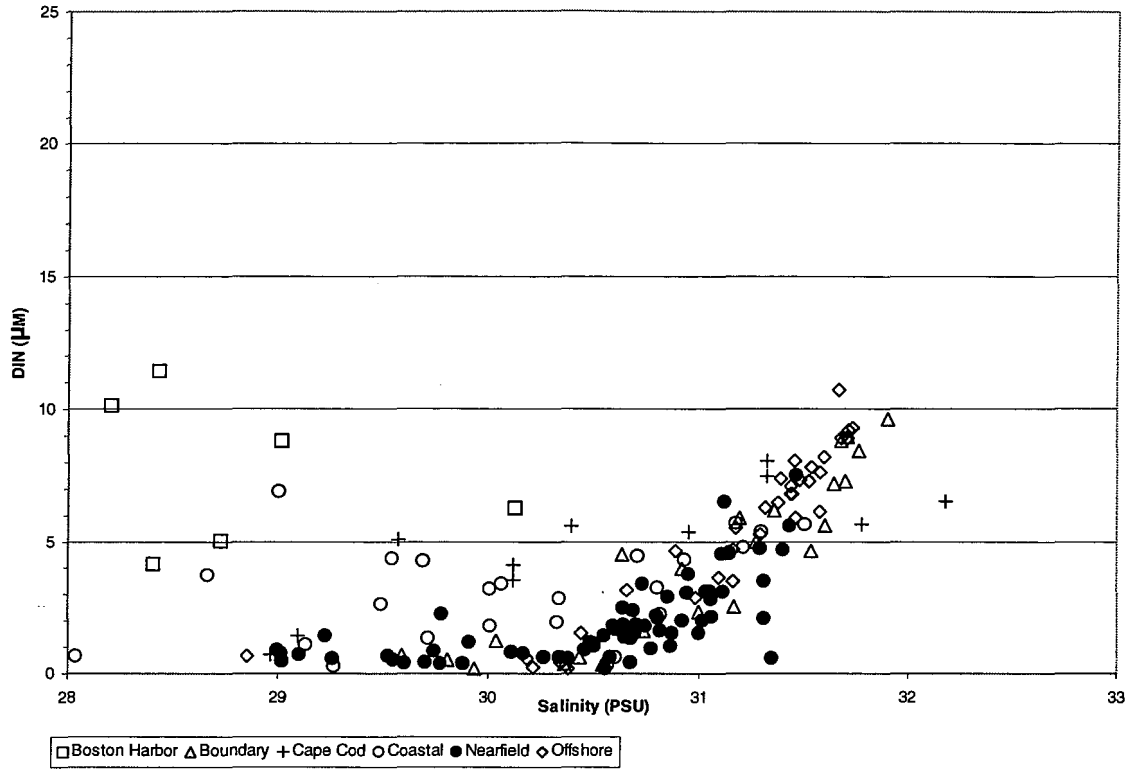


Figure D-103. Nutrient vs. Salinity Plots for Farfield Survey WF987, (Jun 98)

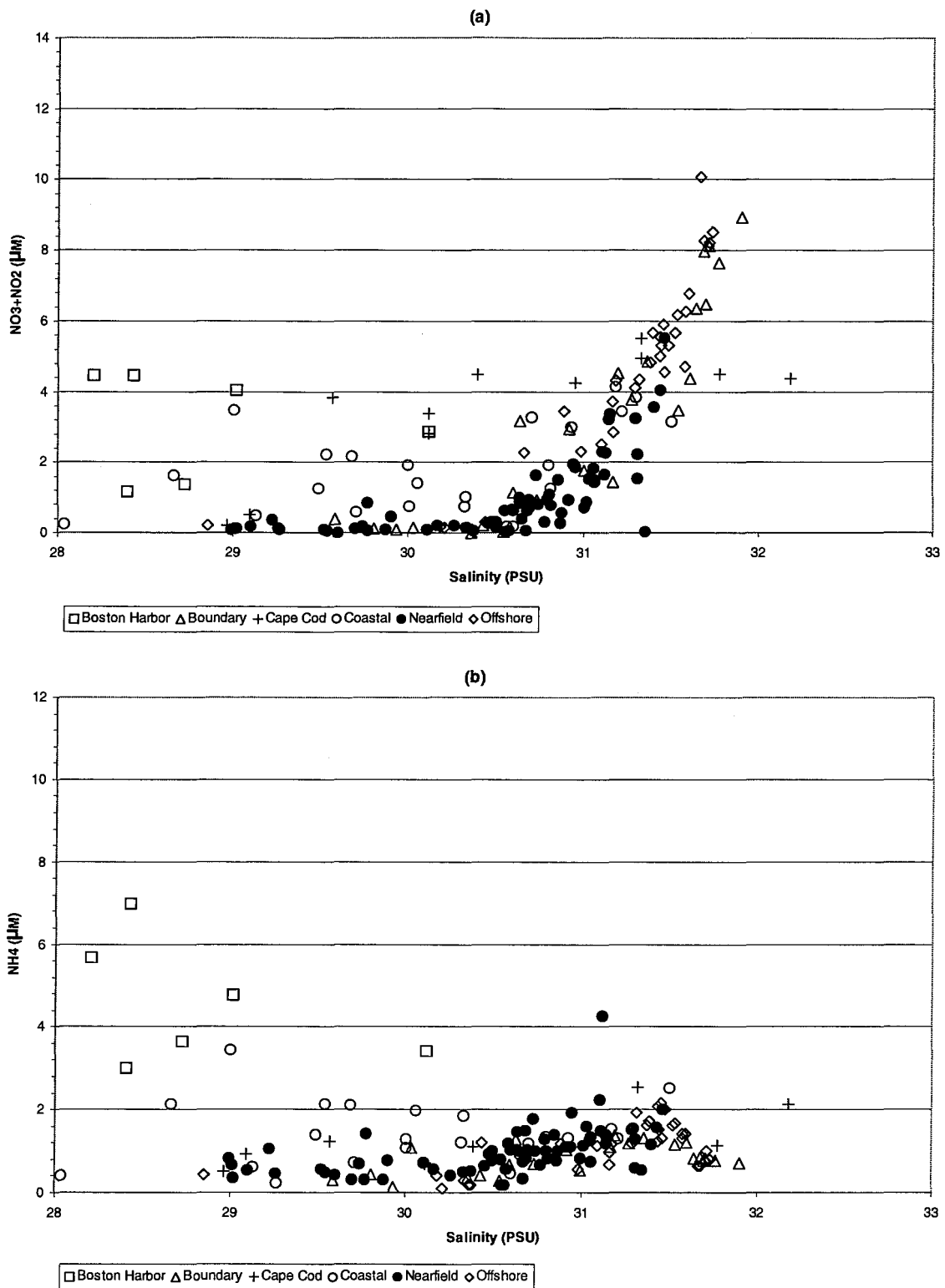


Figure D-104. Nutrient vs. Salinity Plots for Farfield Survey WF987, (Jun 98)

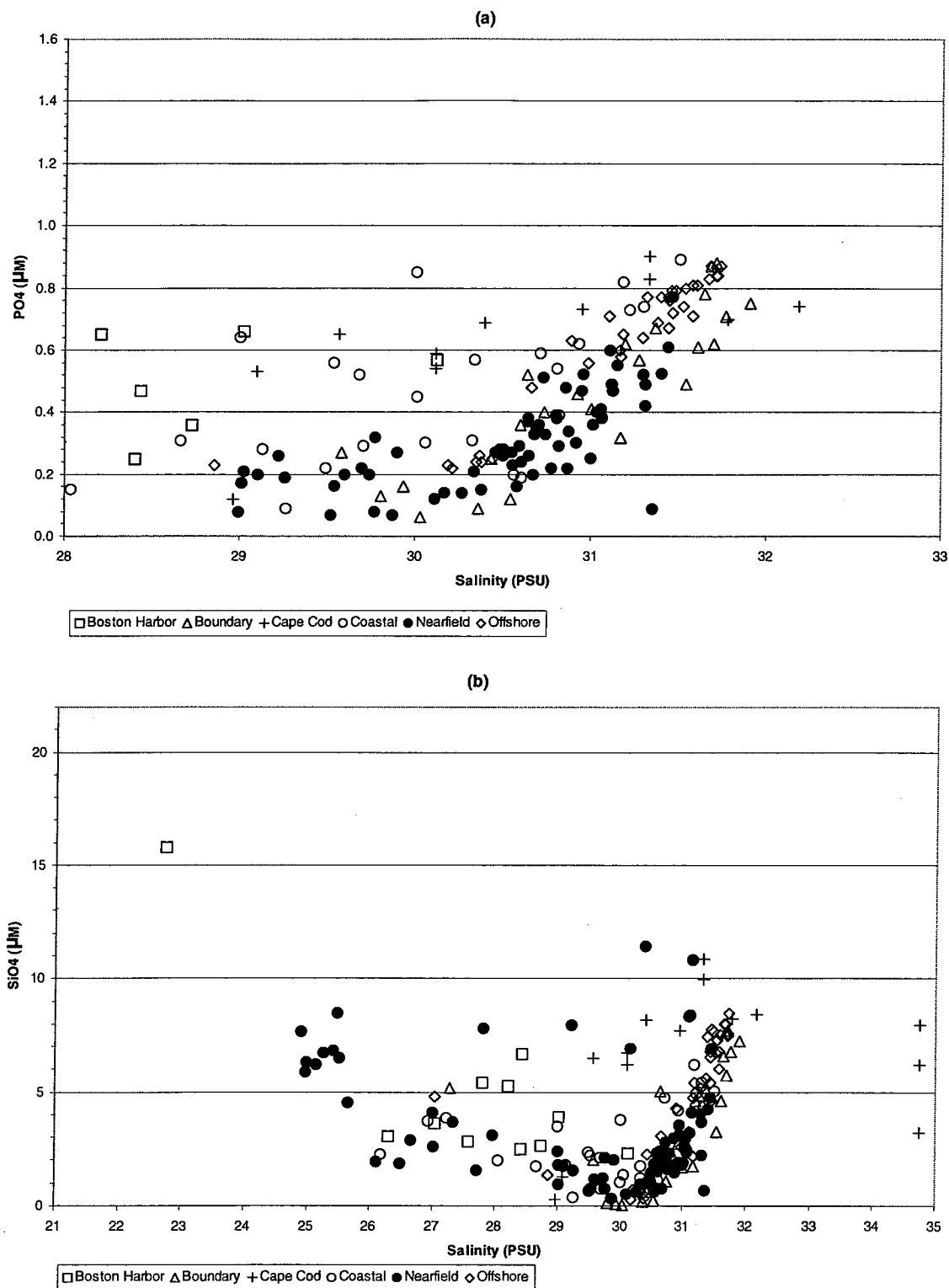


Figure D-105. Nutrient vs. Salinity Plots for Farfield Survey WF987, (Jun 98)

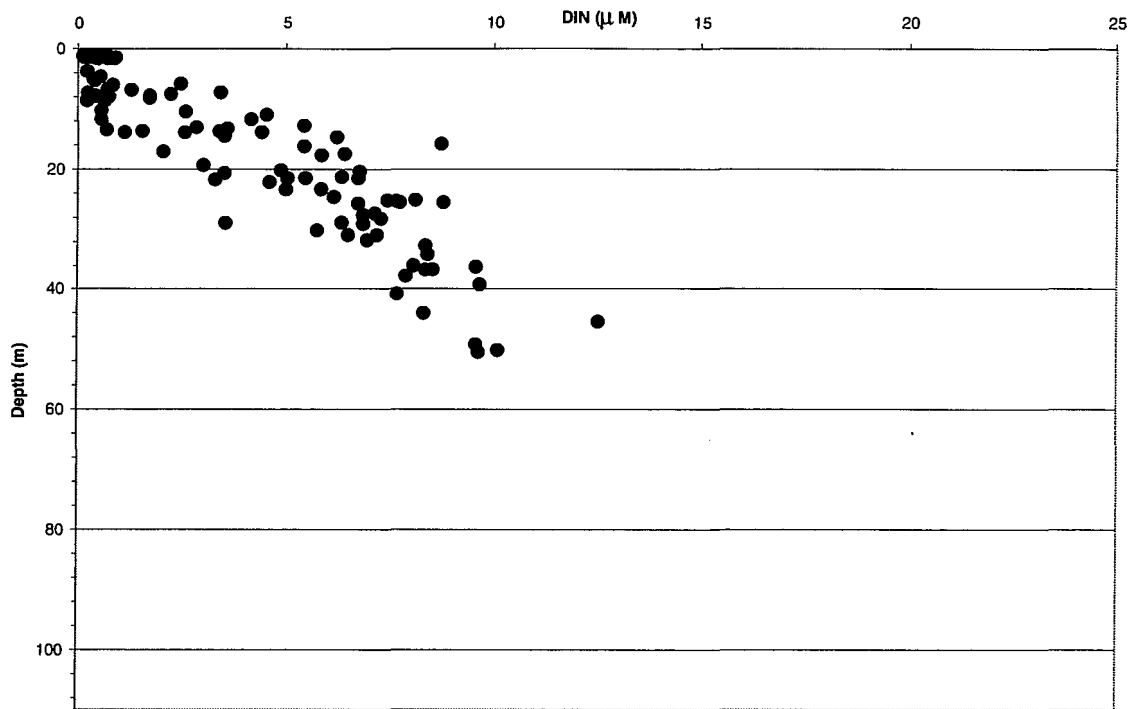


Figure D-106. Depth vs. Nutrient Plots for Nearfield Survey WN988, (Jul 98)

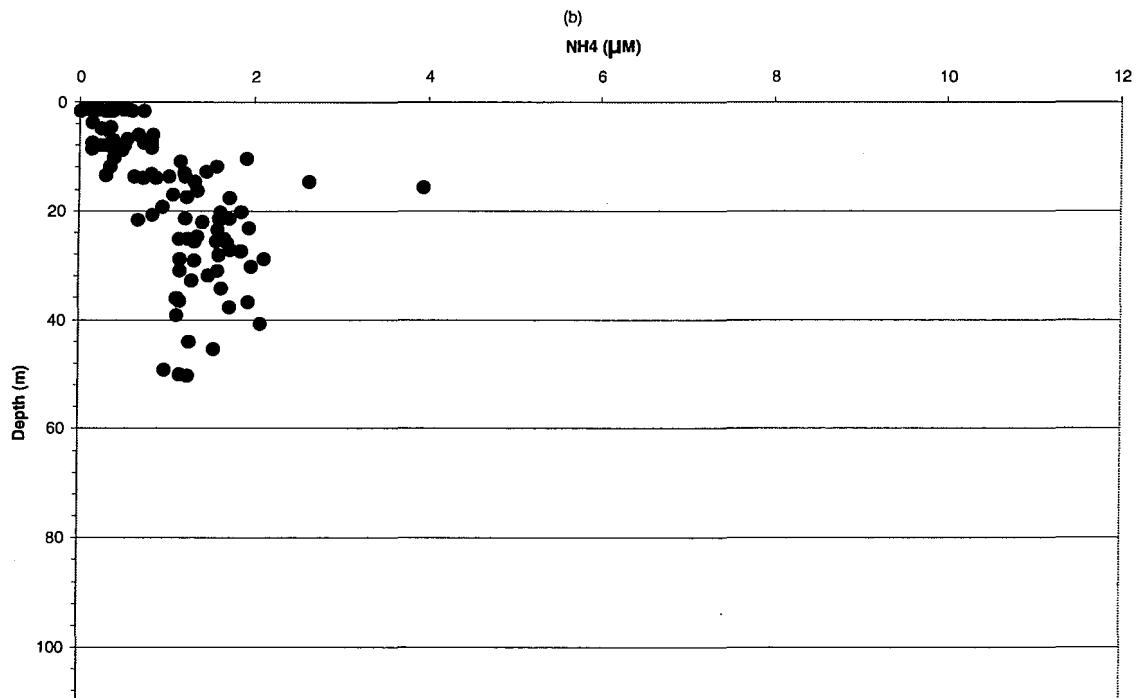
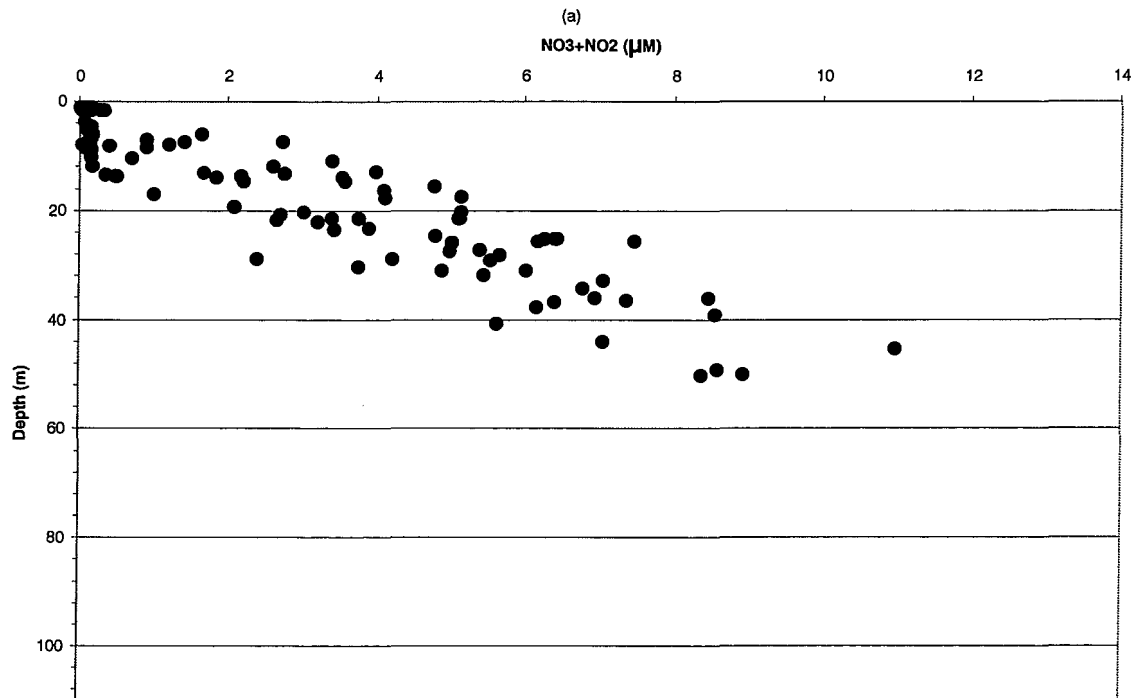


Figure D-107. Depth vs. Nutrient Plots for Nearfield Survey WN988, (Jul 98)

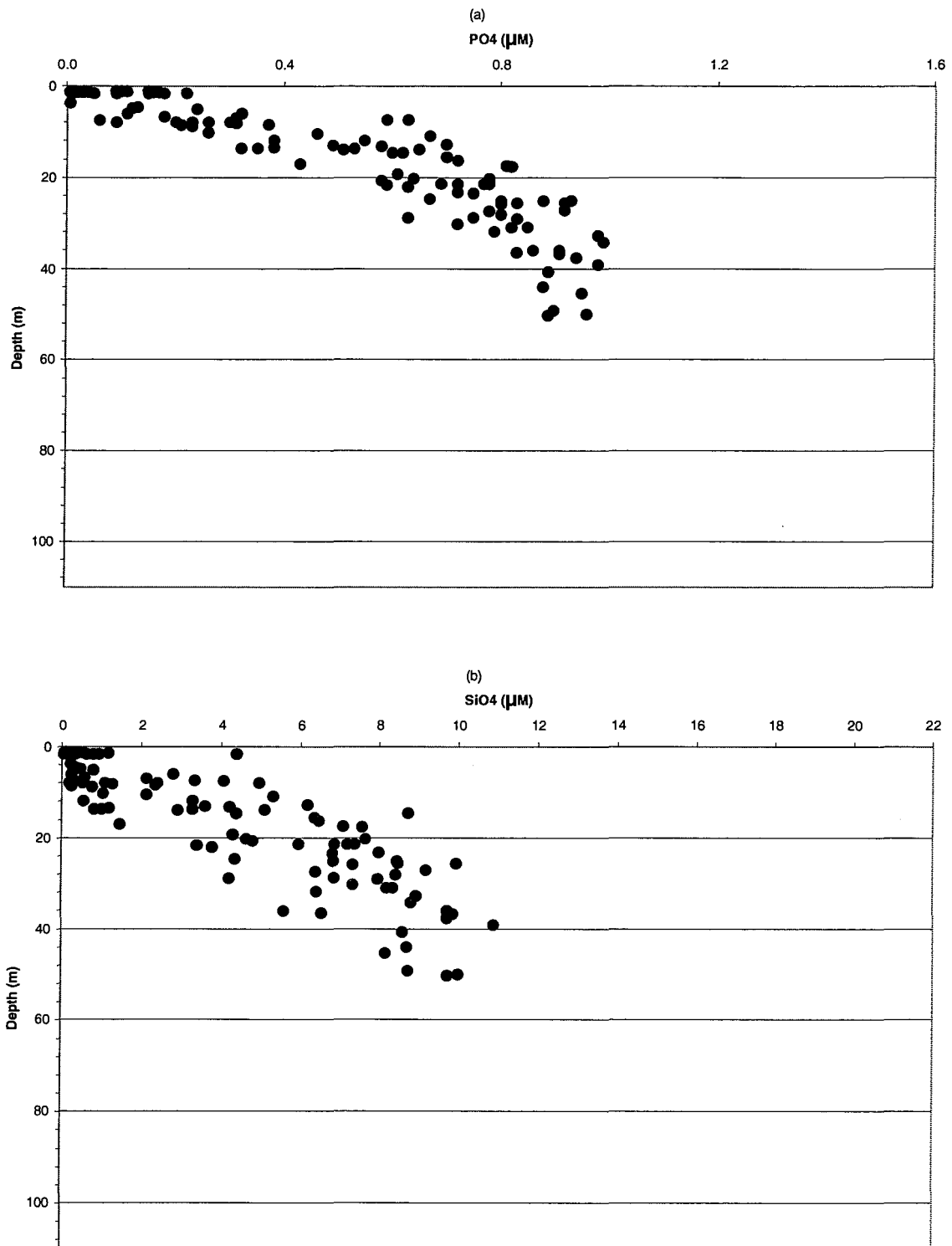


Figure D-108. Depth vs. Nutrient Plots for Nearfield Survey WN988, (Jul 98)

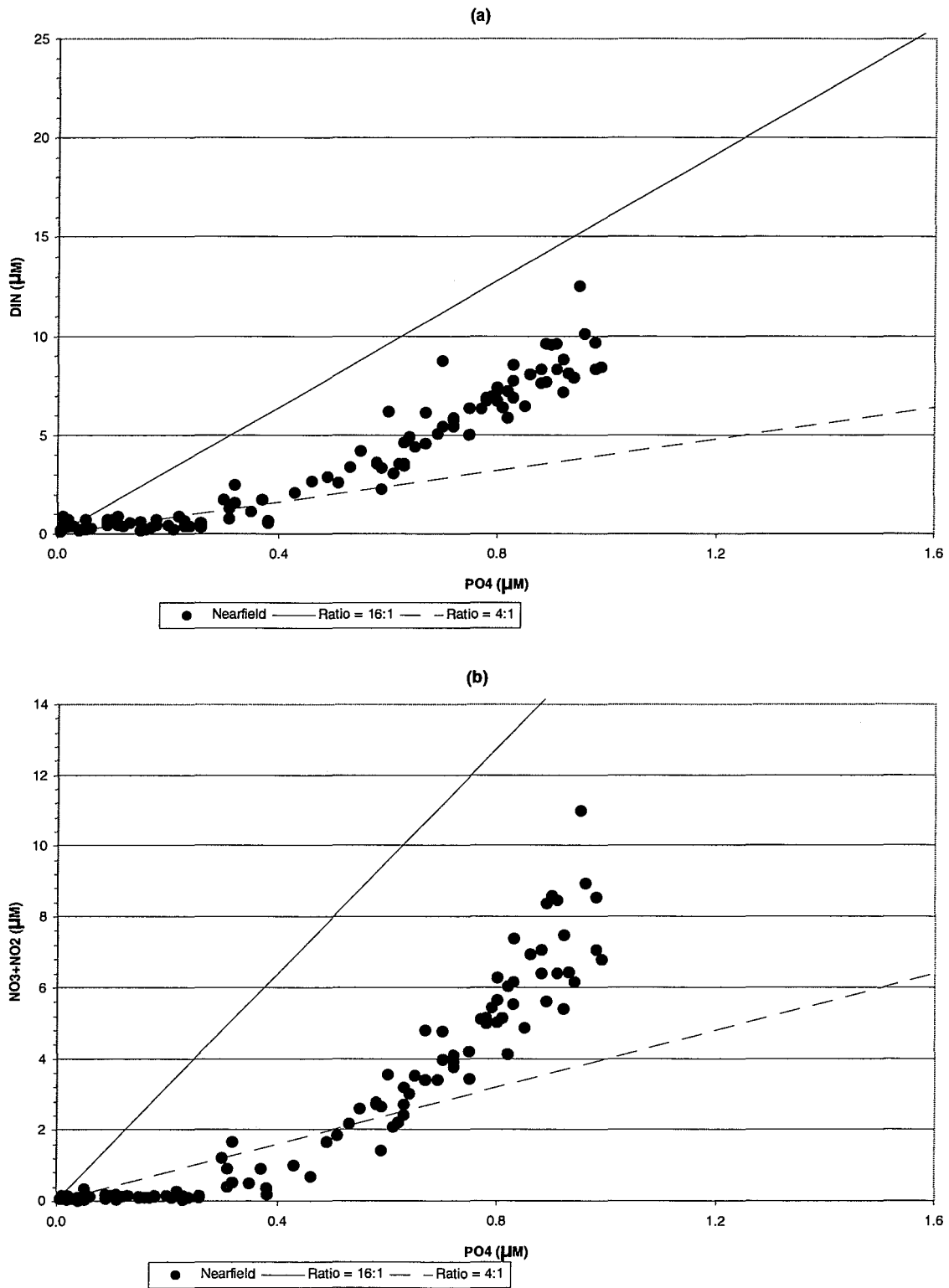


Figure D-110. Nutrient vs. Nutrient Plots for Nearfield Survey WN988, (Jul 98)

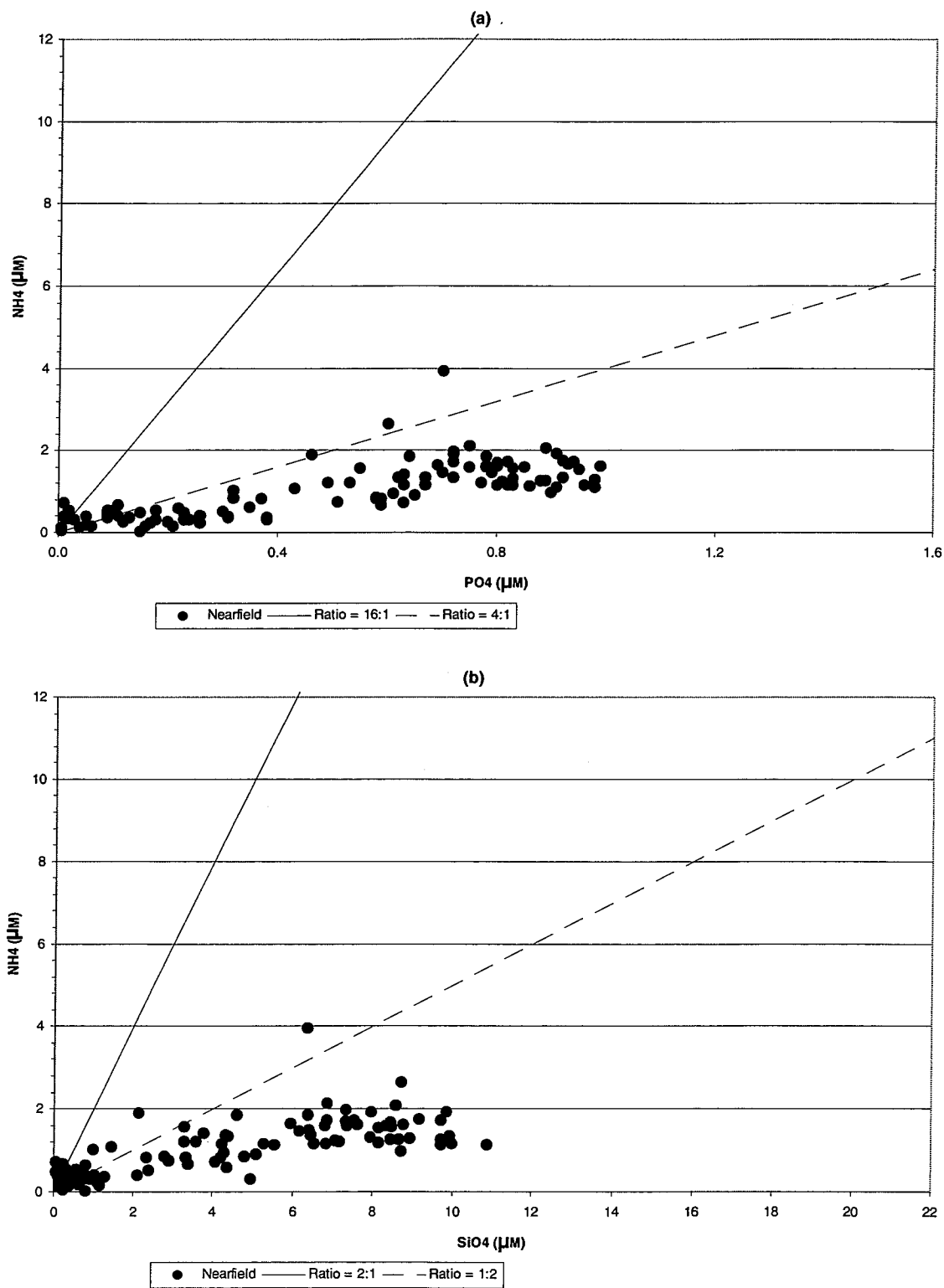


Figure D-111. Nutrient vs. Nutrient Plots for Nearfield Survey WN988, (Jul 98)

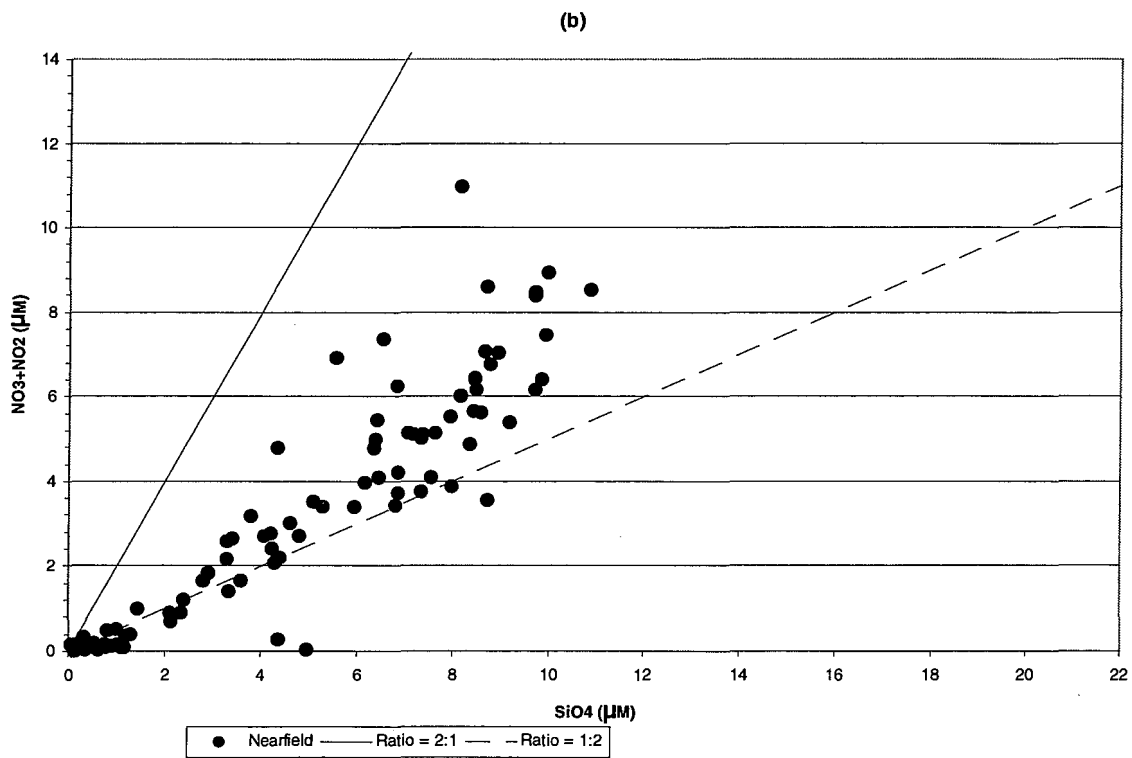
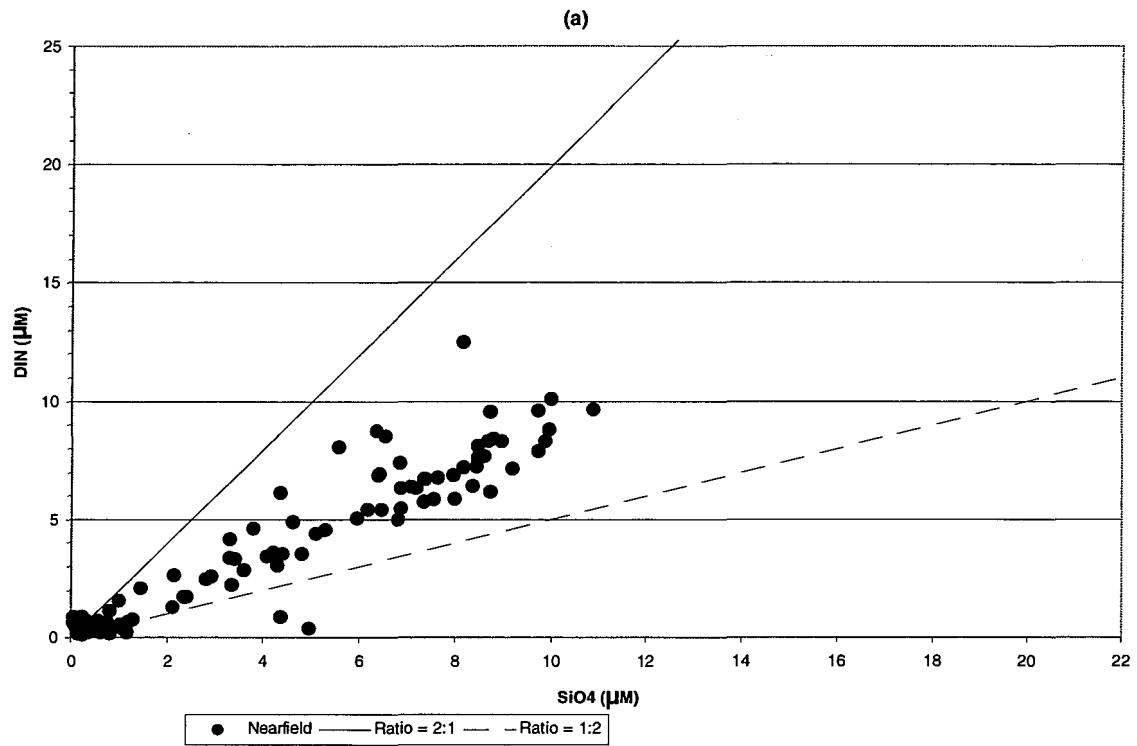


Figure D-112. Nutrient vs. Nutrient Plots for Nearfield Survey WN988, (Jul 98)

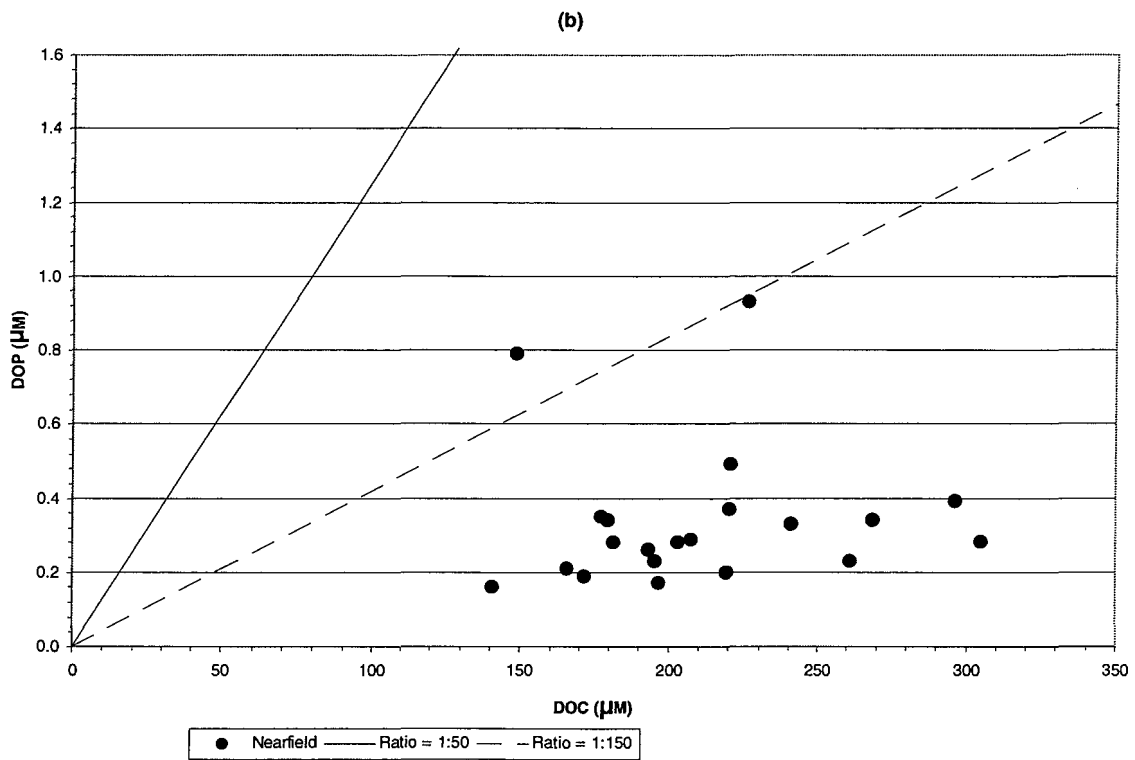
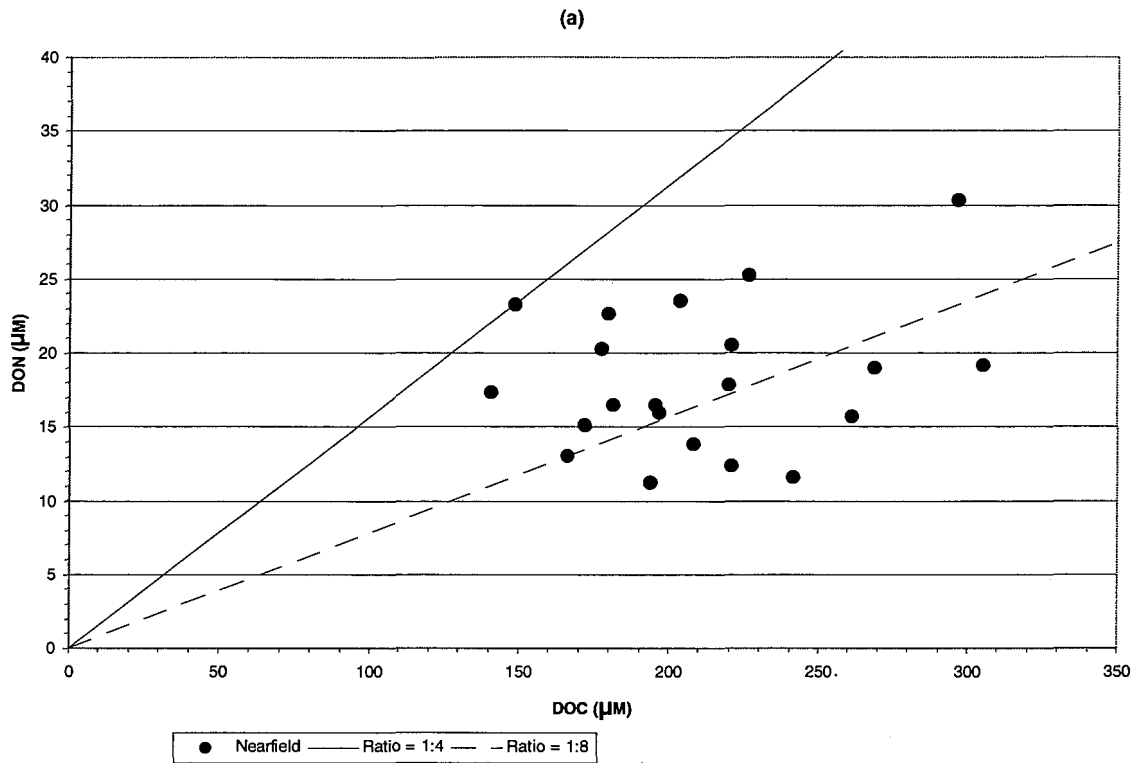


Figure D-113. Nutrient vs. Nutrient Plots for Nearfield Survey WN988, (Jul 98)

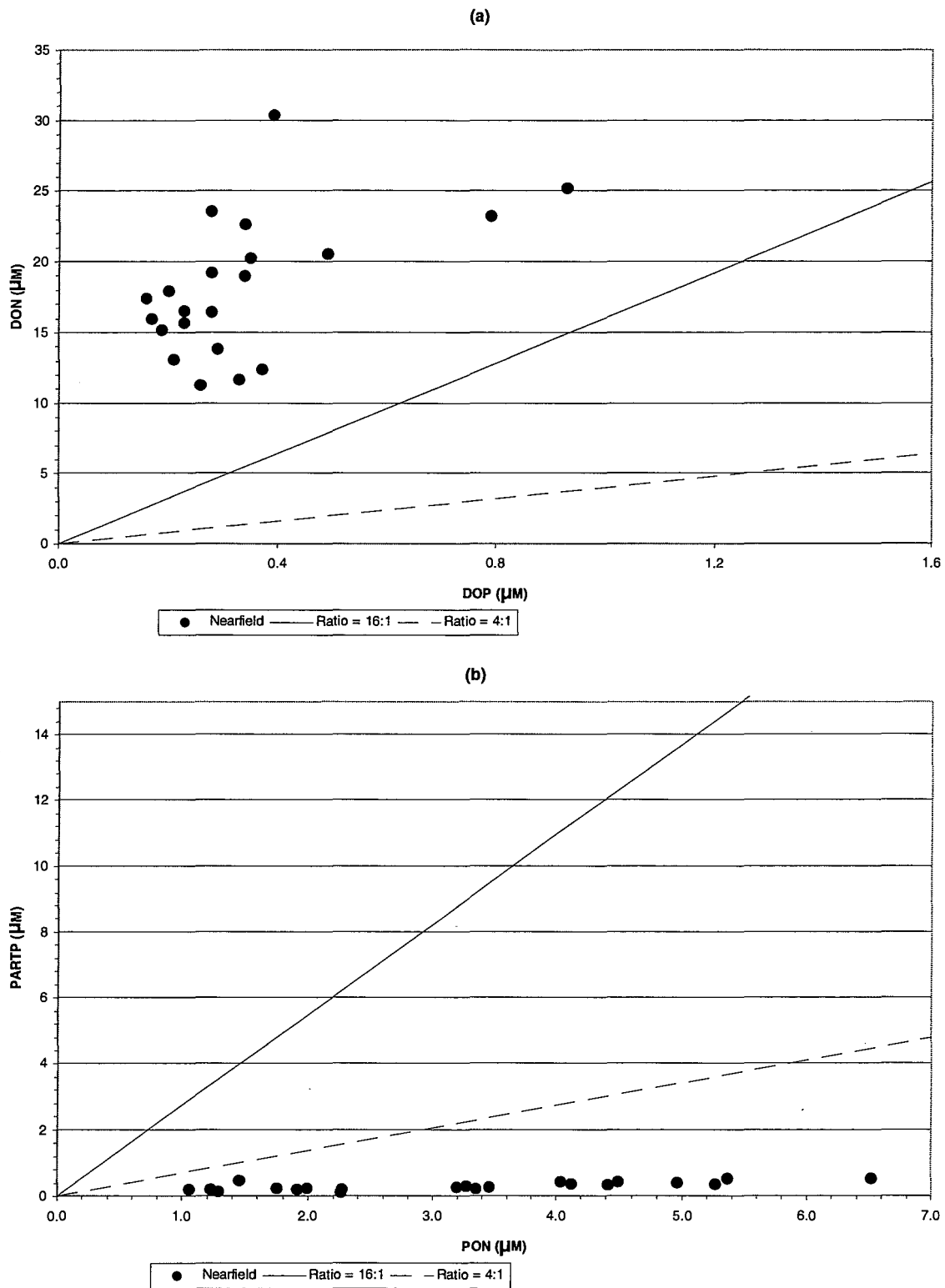


Figure D-114. Nutrient vs. Nutrient Plots for Nearfield Survey WN988, (Jul 98)

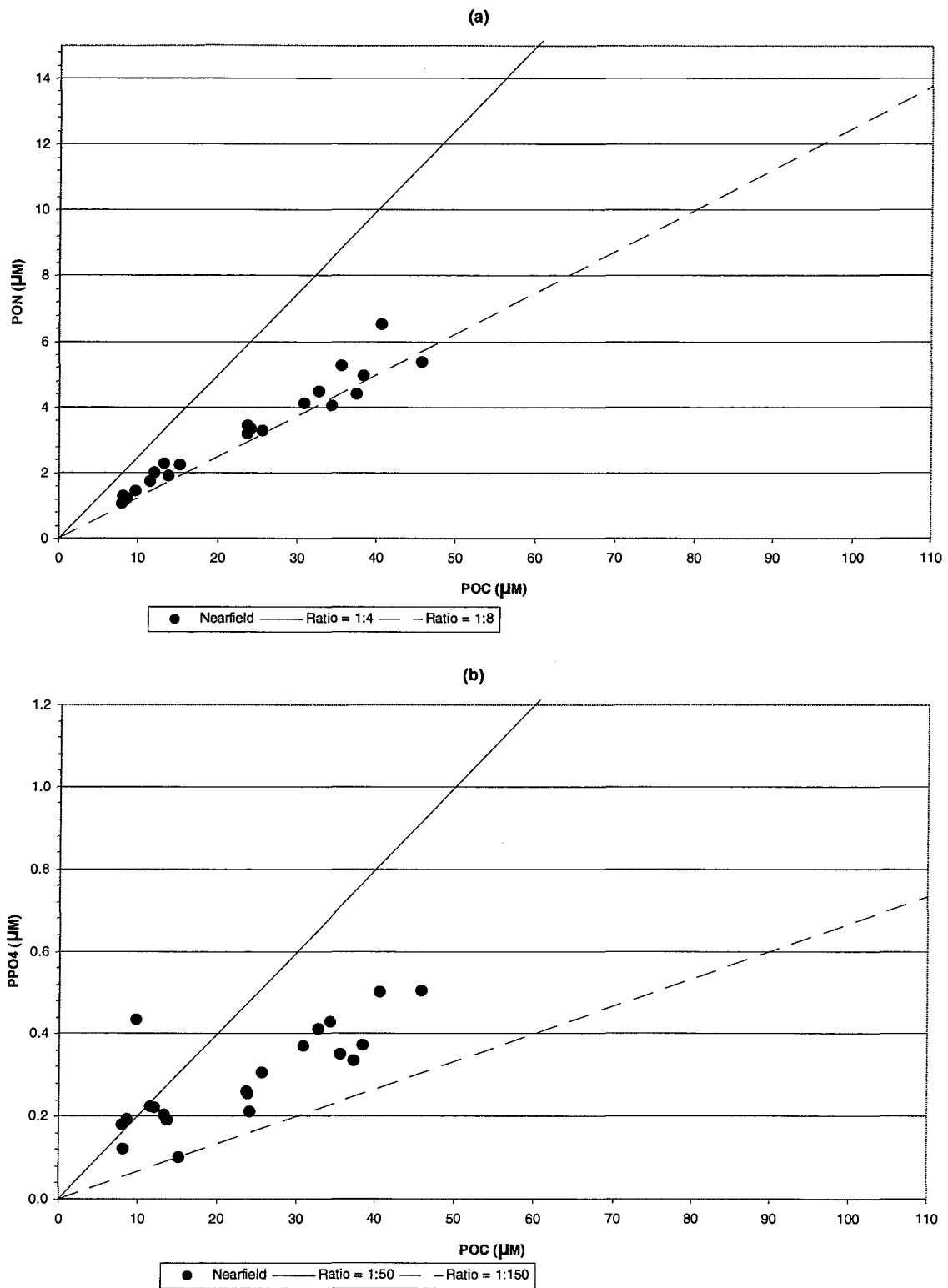


Figure D-115. Nutrient vs. Nutrient Plots for Nearfield Survey WN988, (Jul 98)

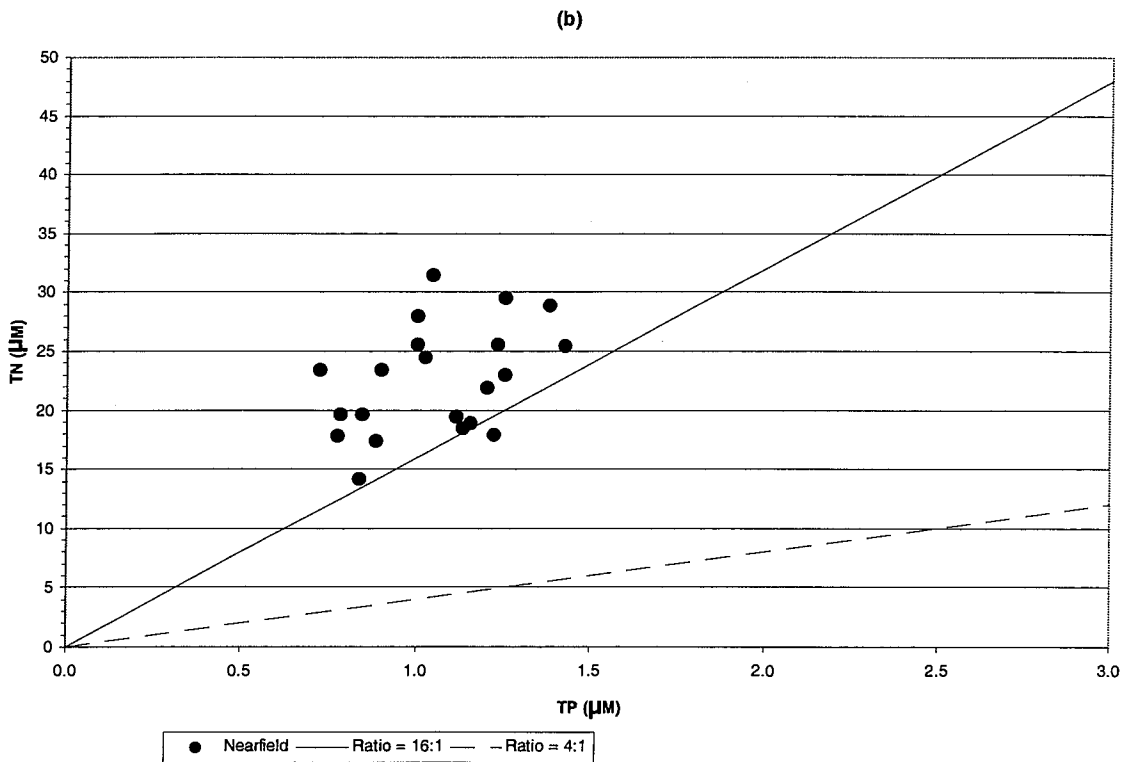
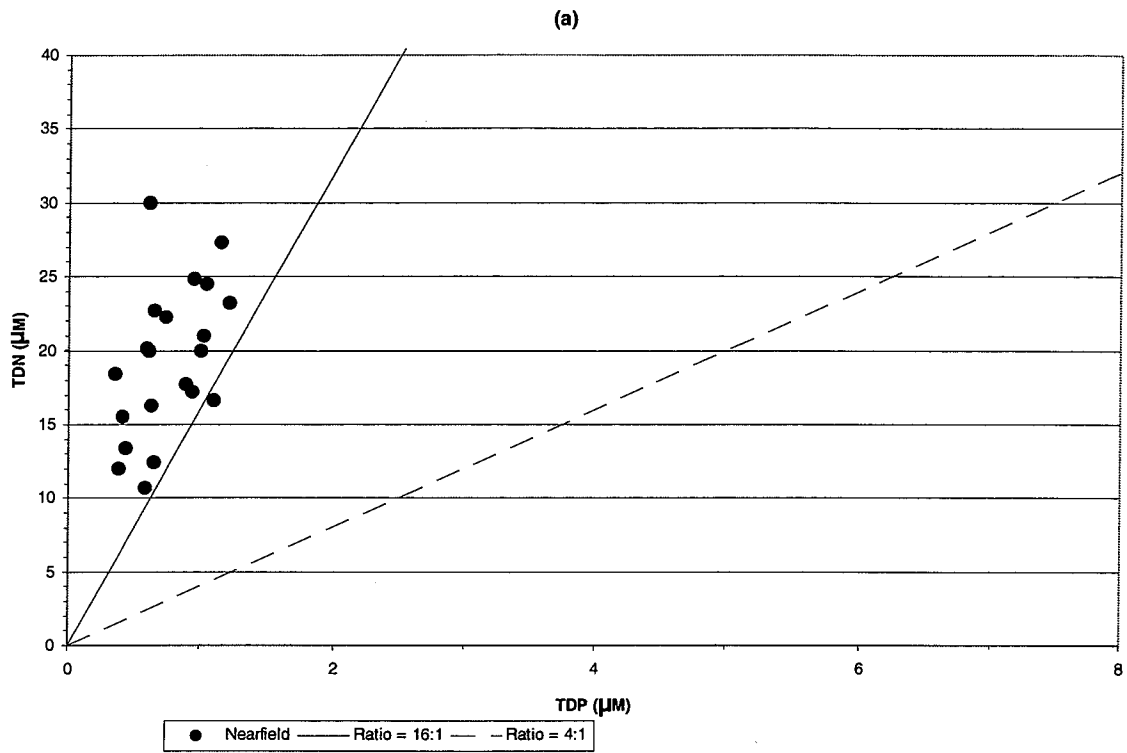


Figure D-116. Nutrient vs. Nutrient Plots for Nearfield Survey WN988, (Jul 98)

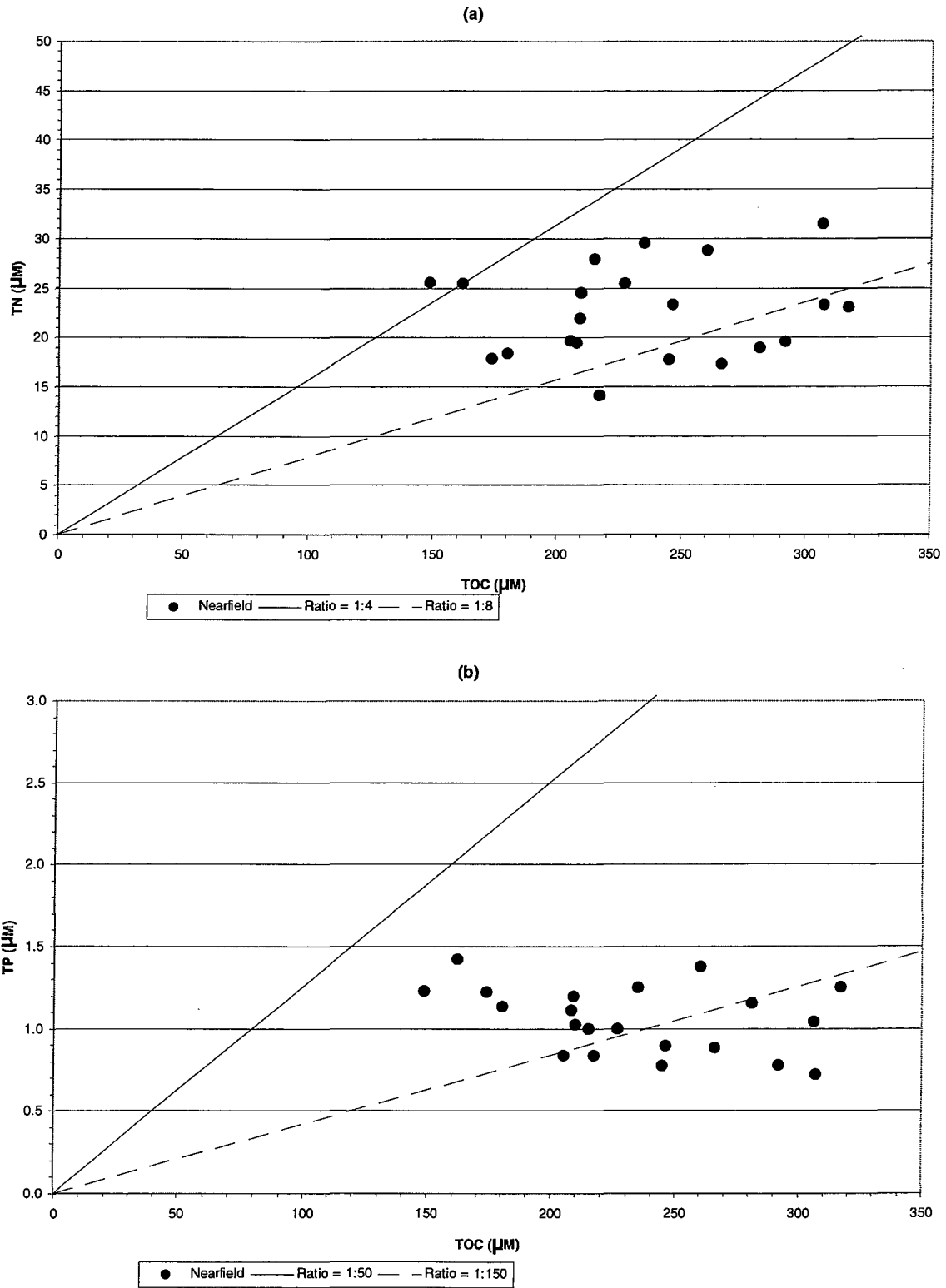


Figure D-17. Nutrient vs. Nutrient Plots for Nearfield Survey WN988, (Jul 98)

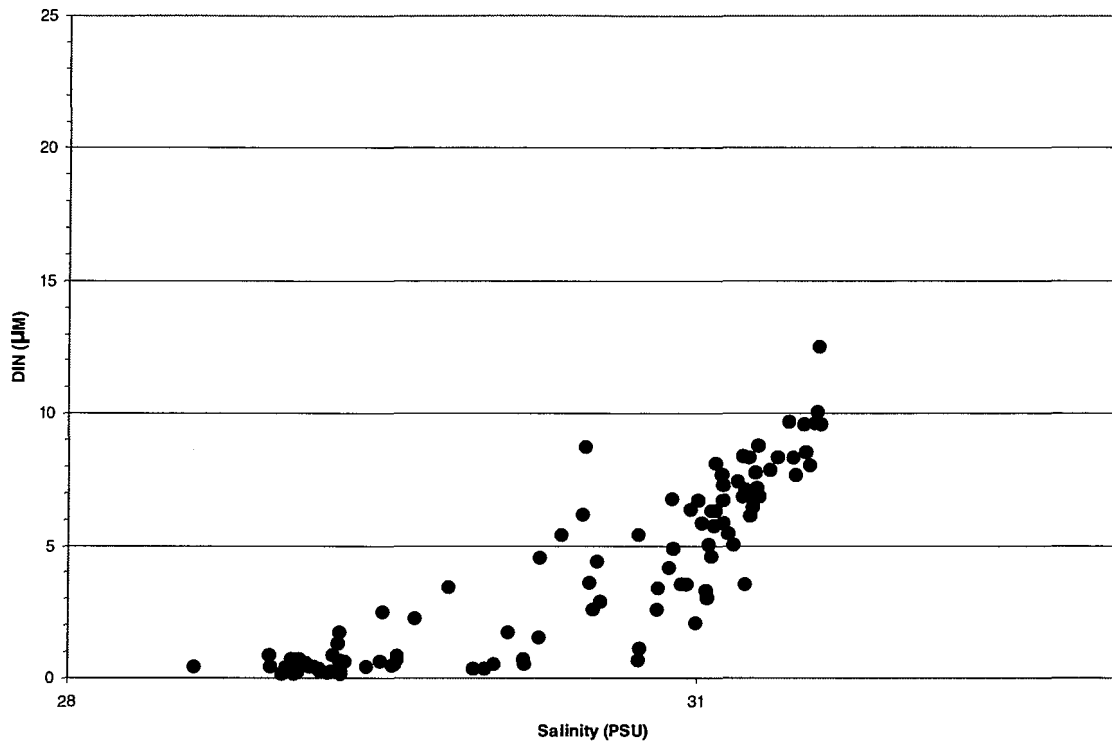


Figure D-118. Nutrient vs. Salinity Plots for Nearfield Survey WN988, (Jul 98)

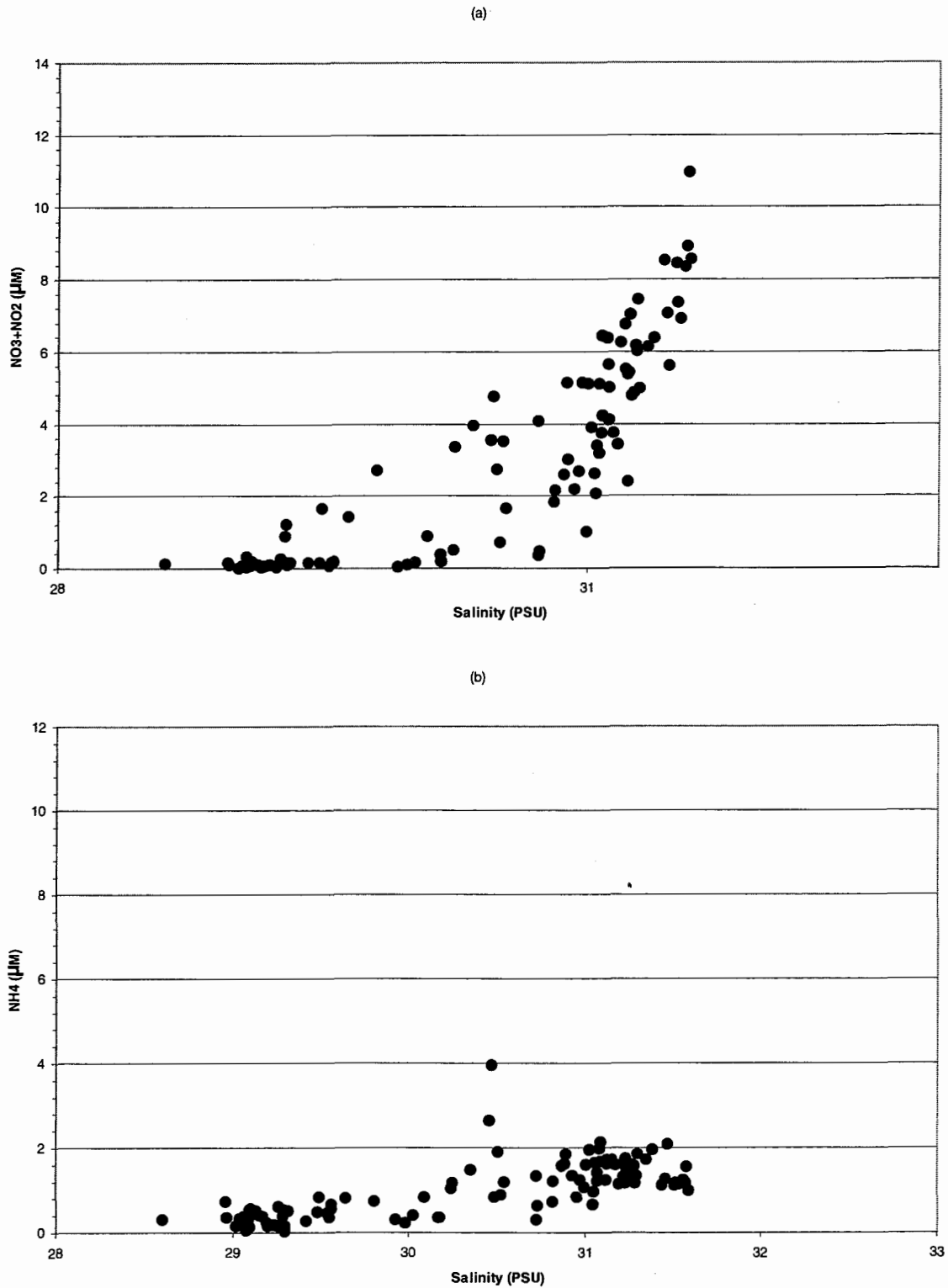


Figure D-119. Nutrient vs. Salinity Plots for Nearfield Survey WN988, (Jul 98)

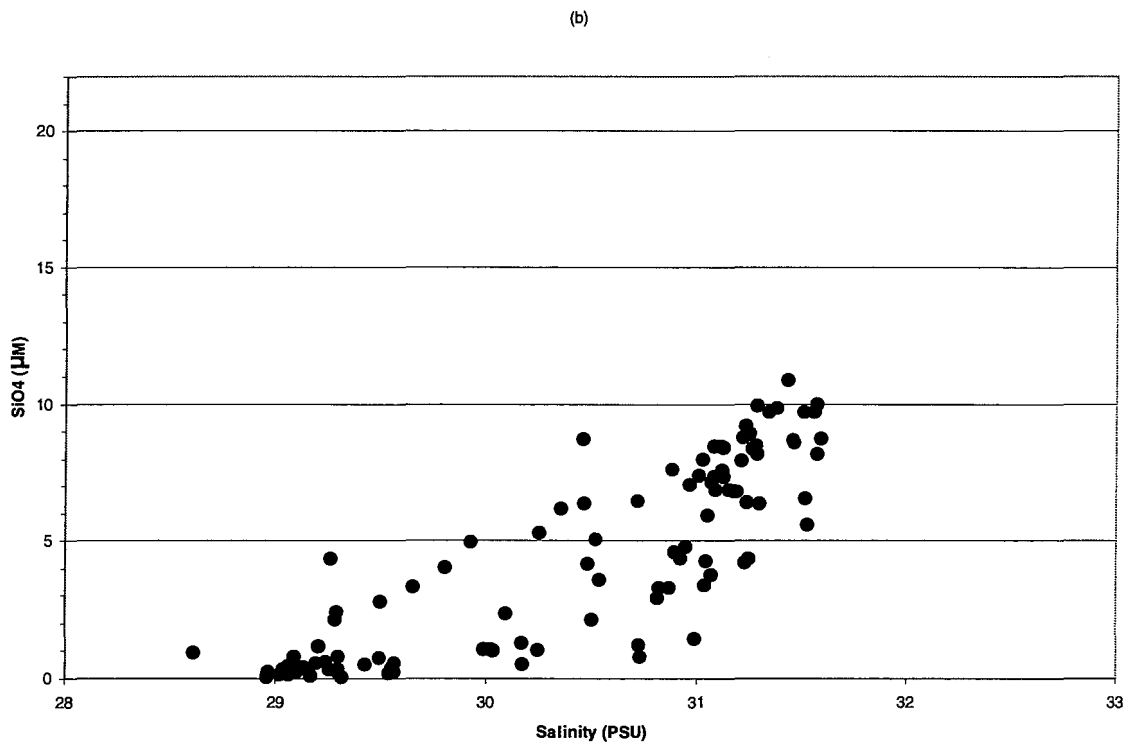
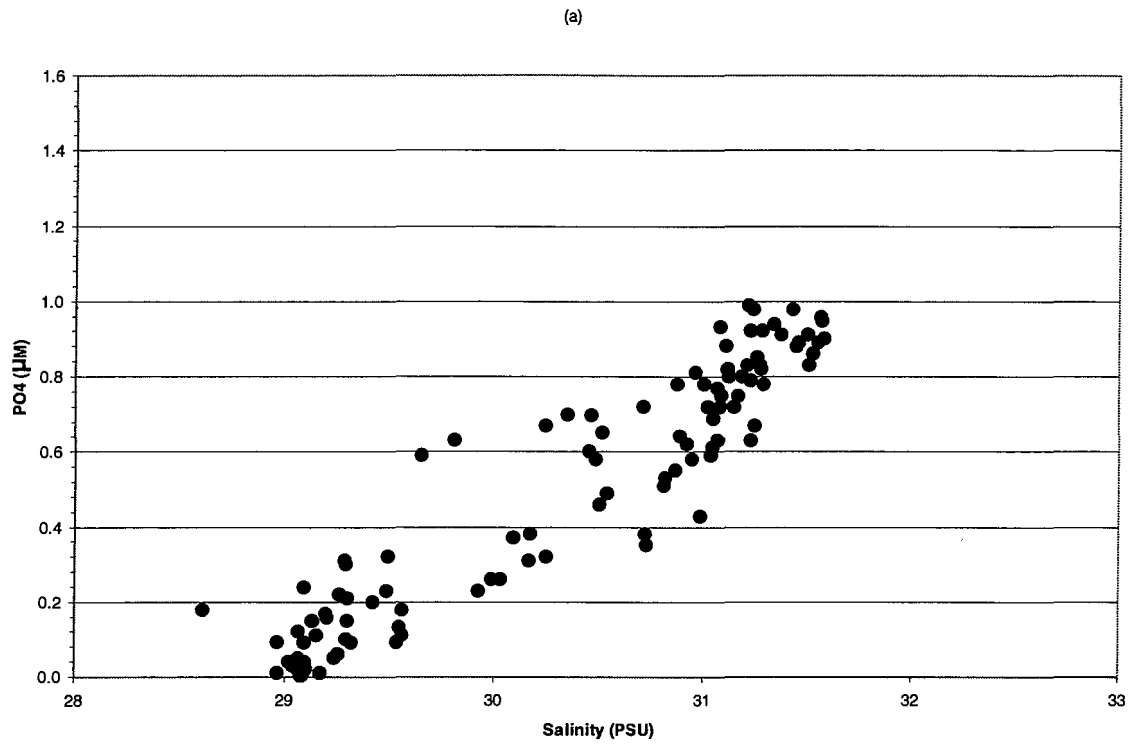


Figure D-120. Nutrient vs. Salinity Plots for Nearfield Survey WN988, (Jul 98)

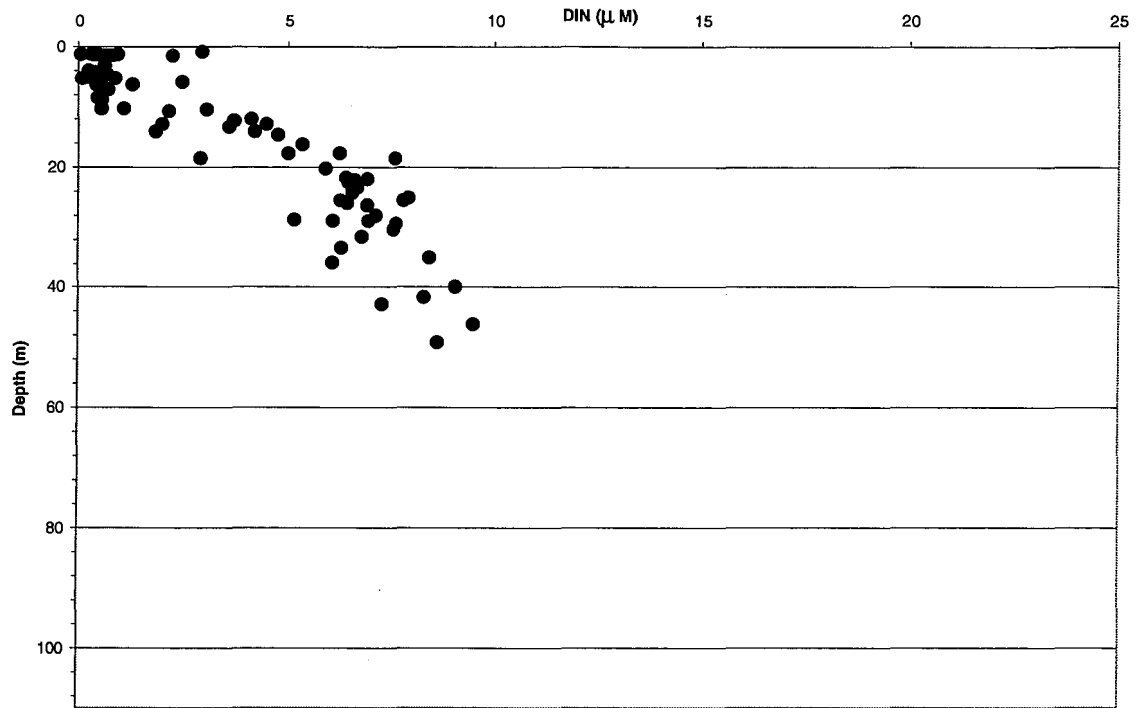


Figure D-121. Depth vs. Nutrient Plots for Nearfield Survey WN989, (Jul 98)

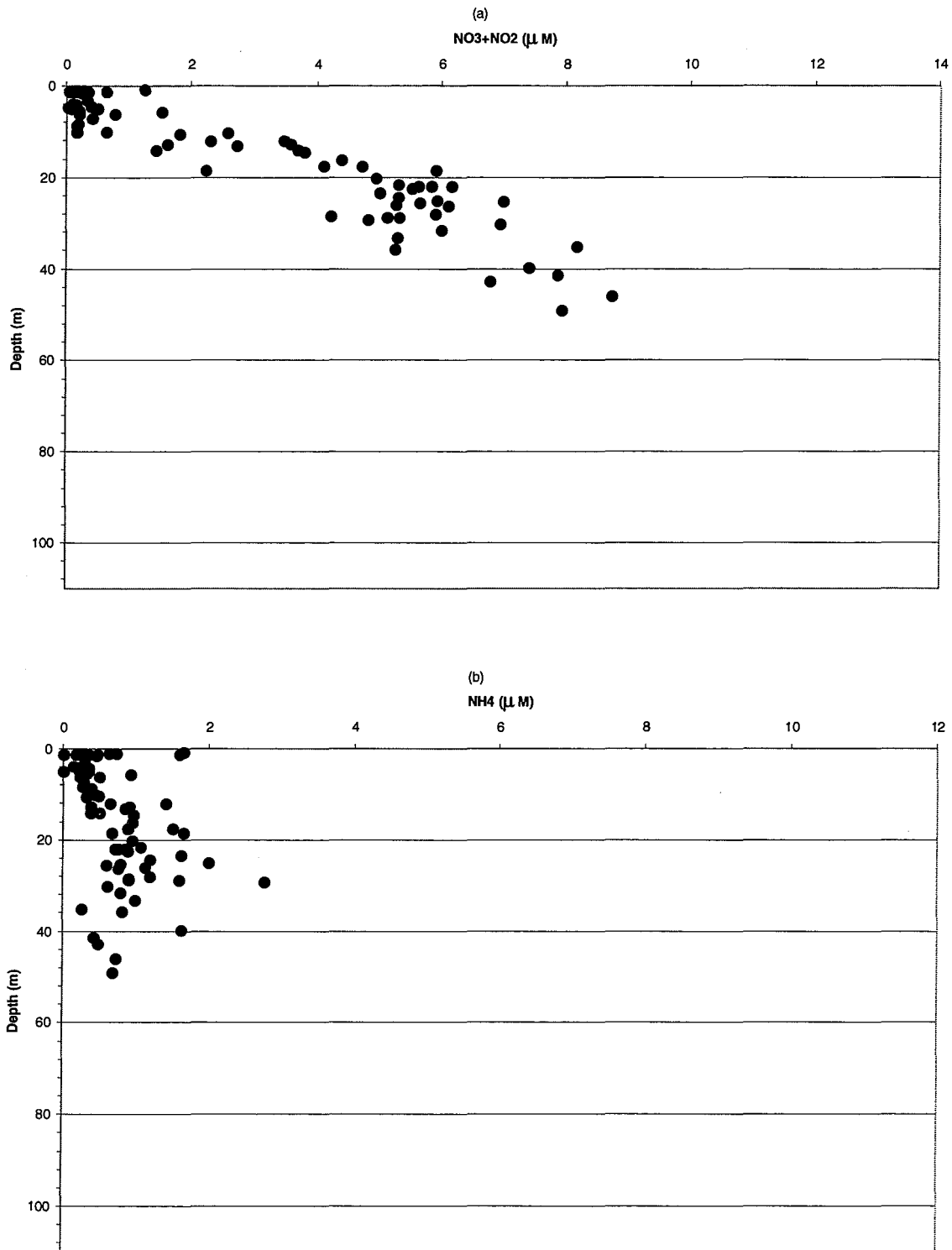


Figure D-122. Depth vs. Nutrient Plots for Nearfield Survey WN989, (Jul 98)

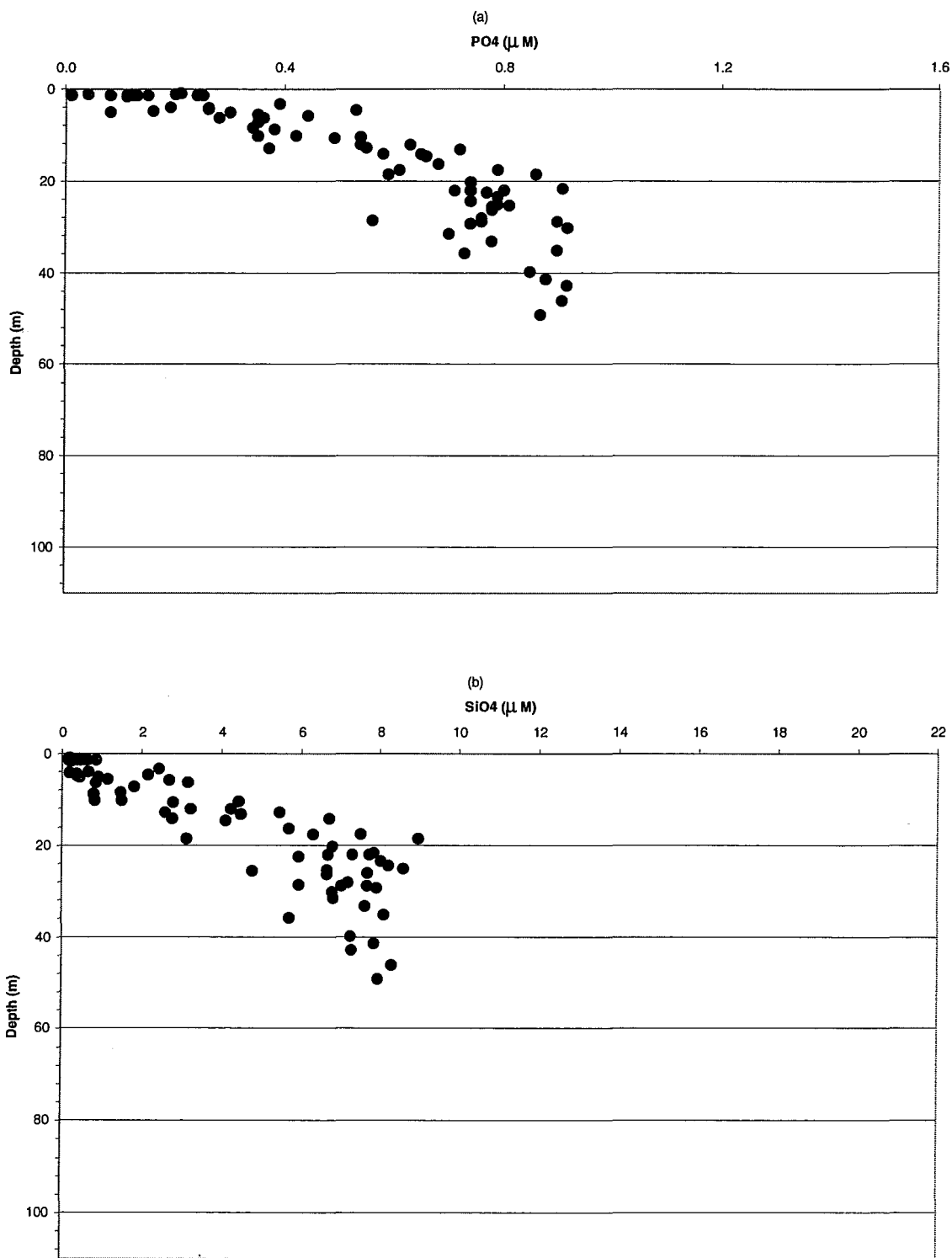


Figure D-123. Depth vs. Nutrient Plots for Nearfield Survey WN989, (Jul 98)

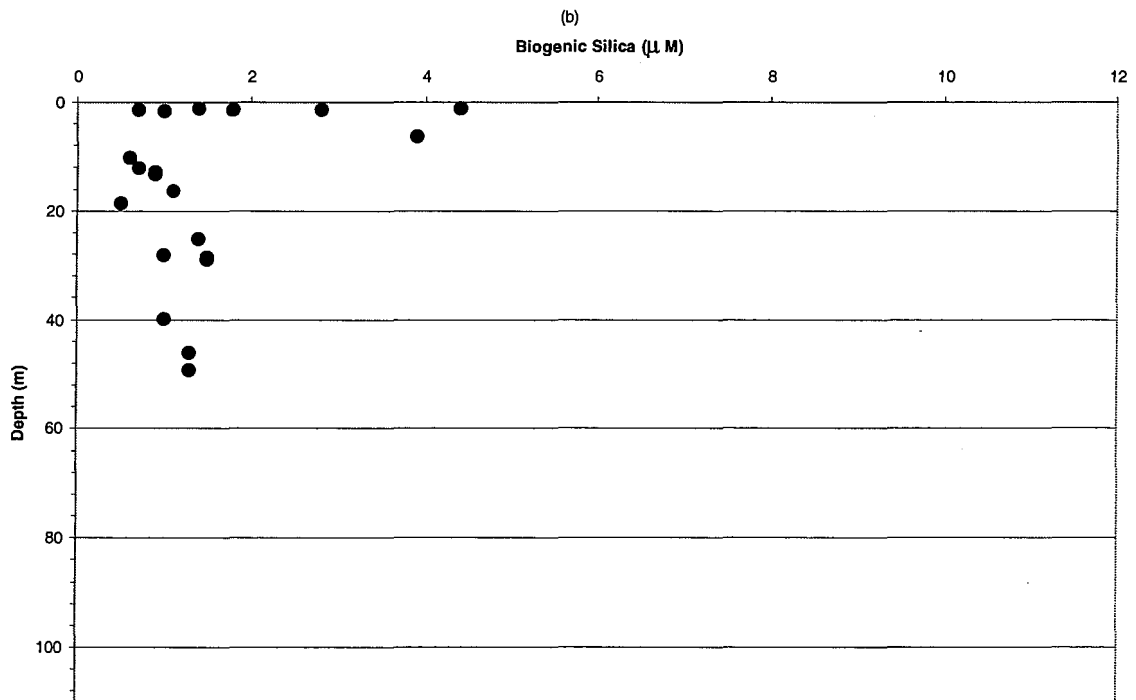
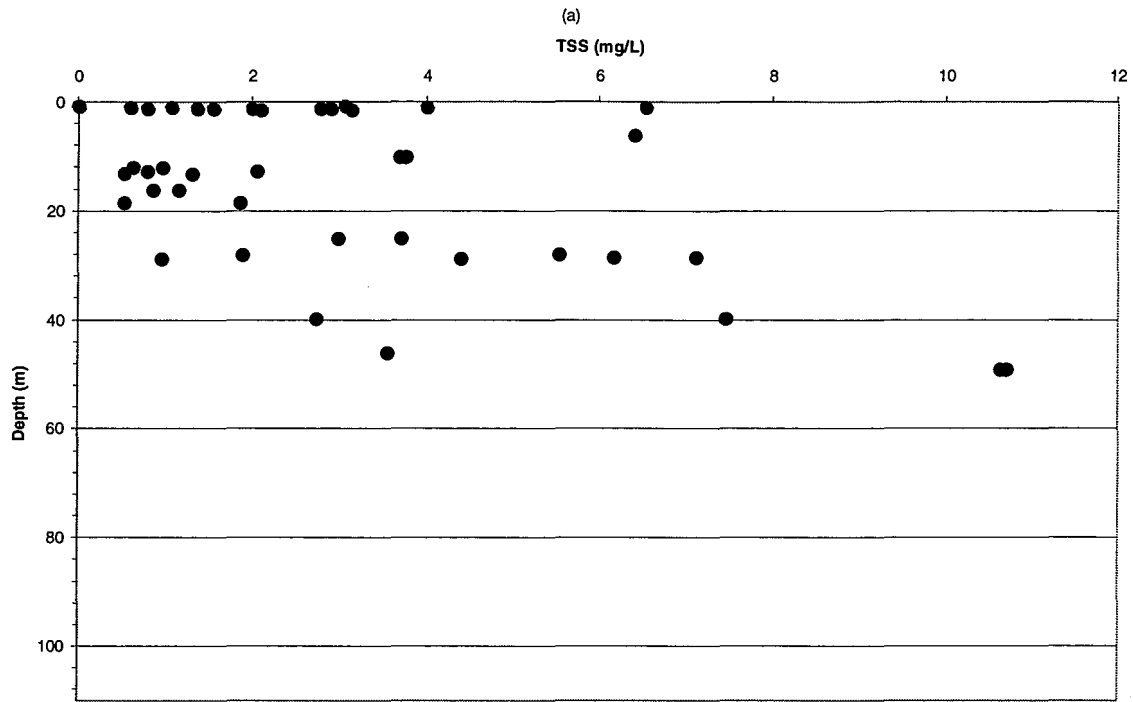


Figure D-124. Depth vs. Nutrient Plots for Nearfield Survey WN989, (Jul 98)

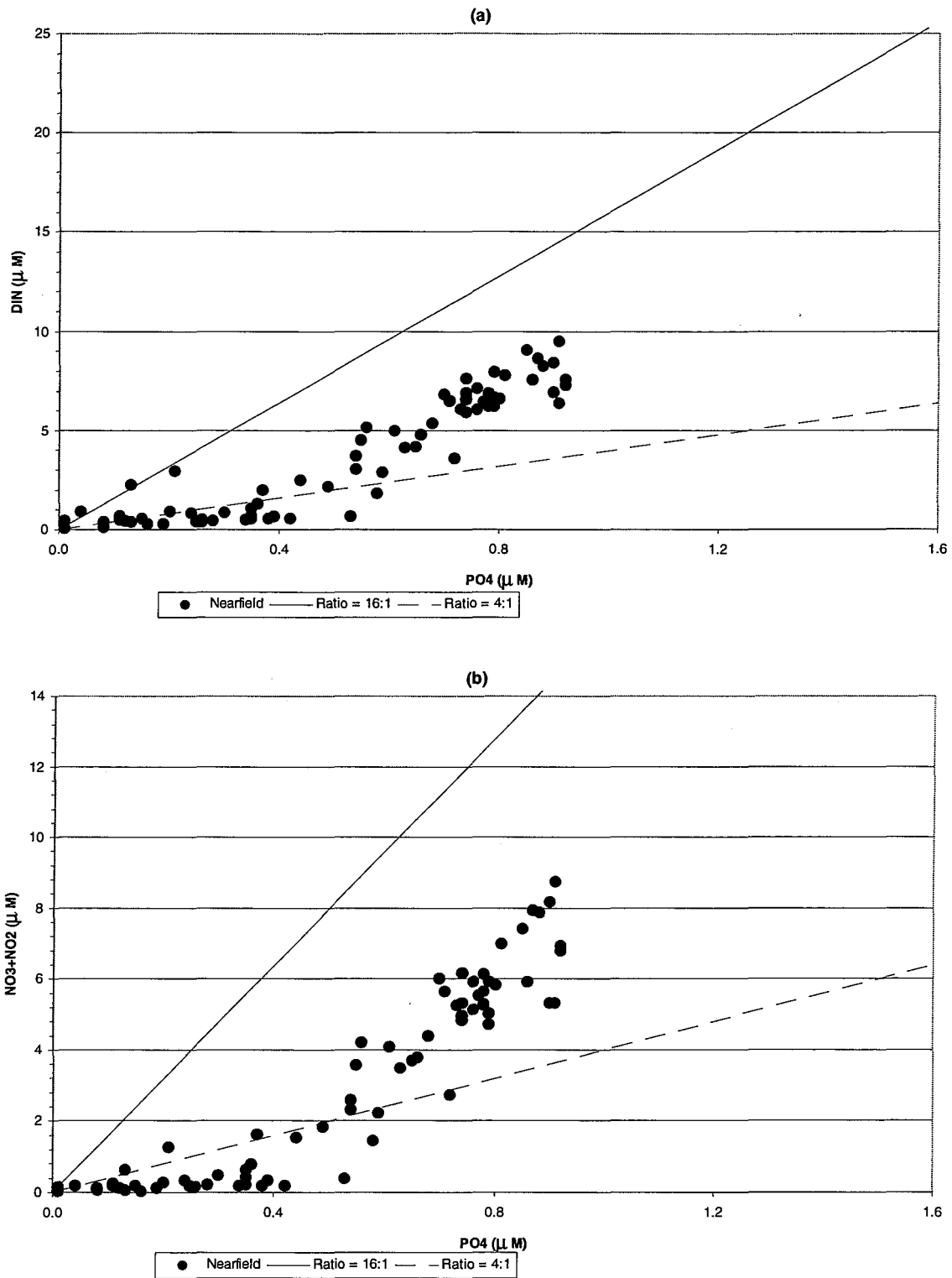


Figure D-125. Nutrient vs. Nutrient Plots for Nearfield Survey WN989, (Jul 98)

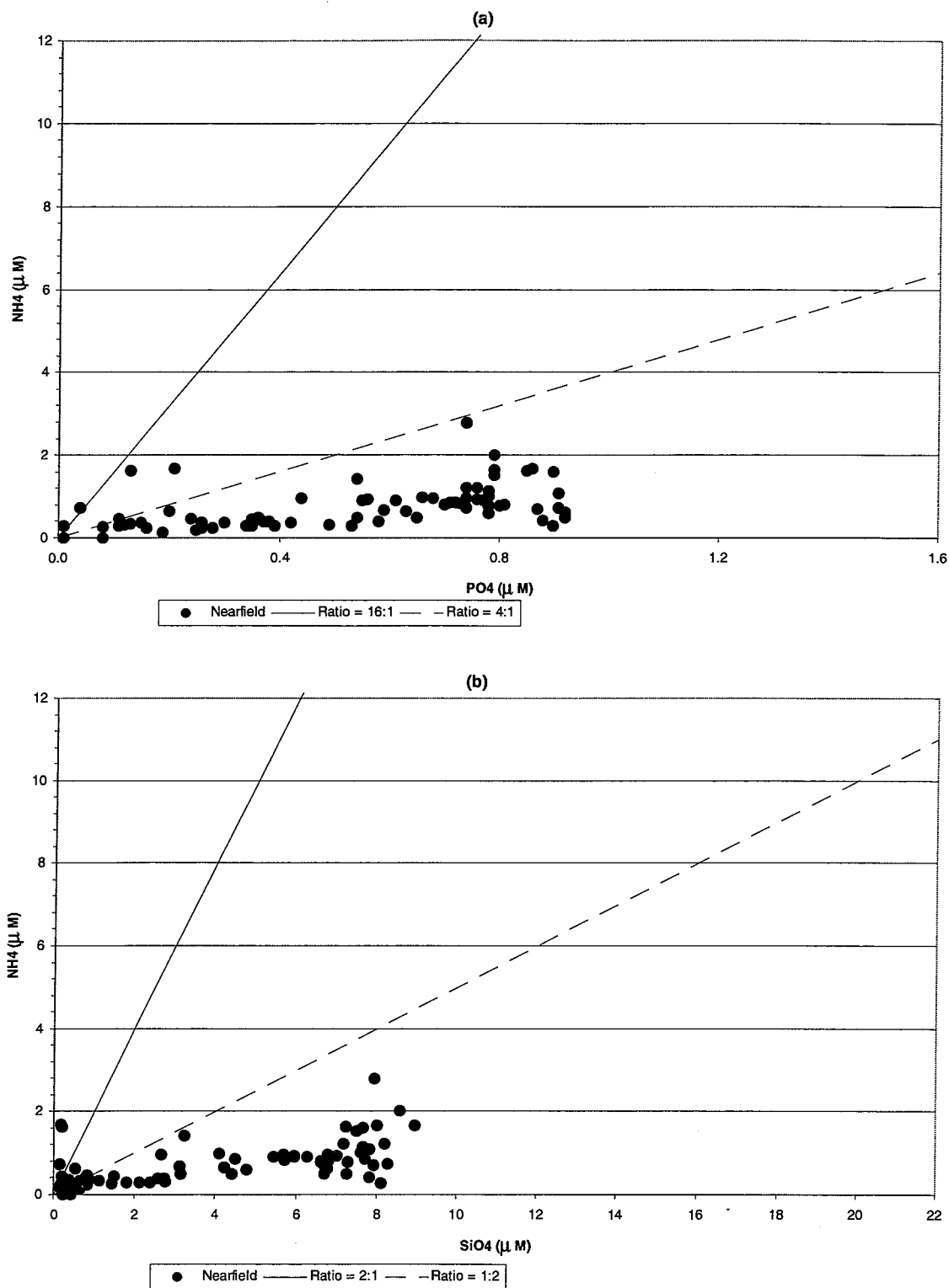


Figure D-126. Nutrient vs. Nutrient Plots for Nearfield Survey WN989, (Jul 98)

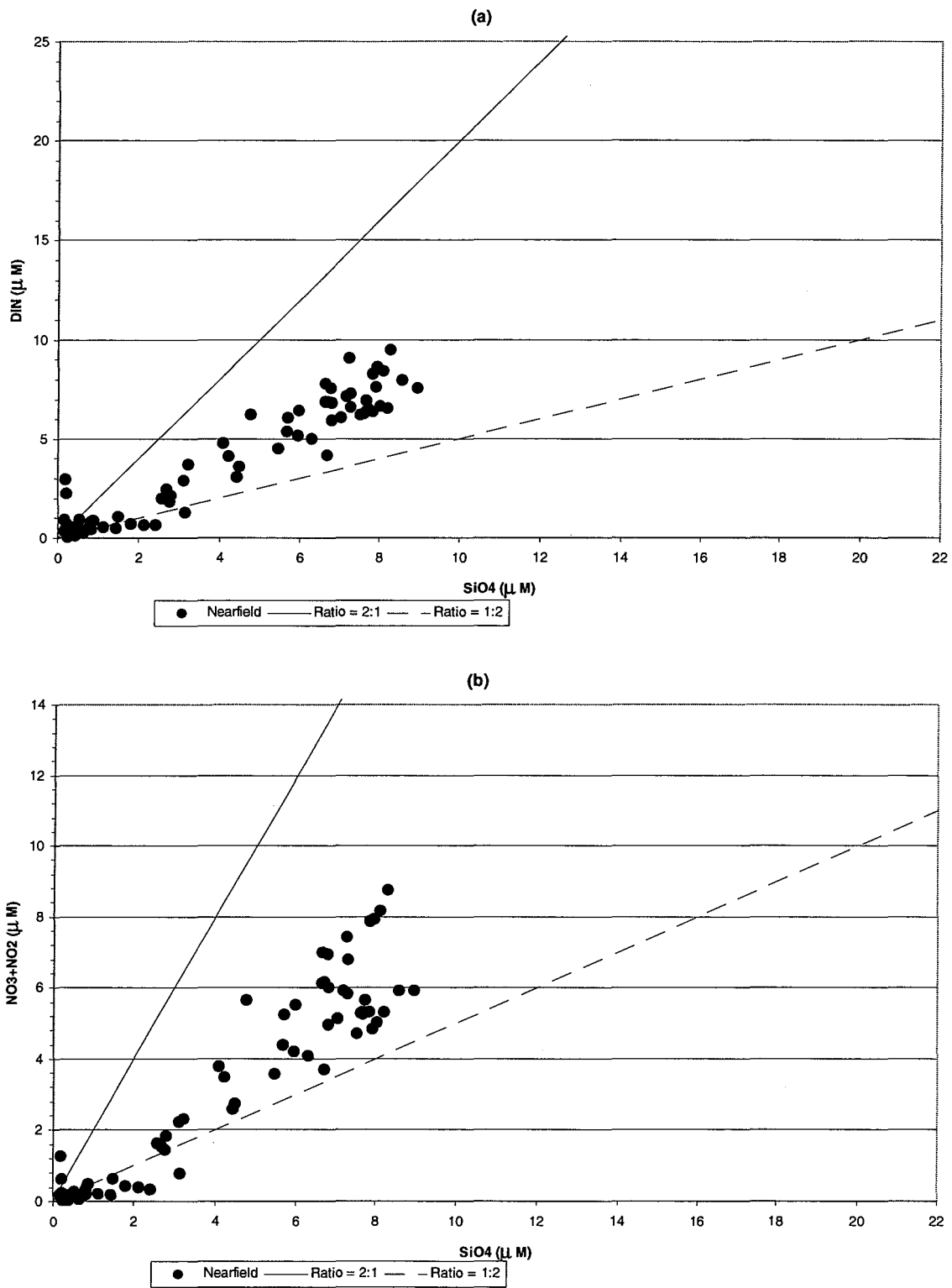


Figure D-127. Nutrient vs. Nutrient Plots for Nearfield Survey WN989, (Jul 98)

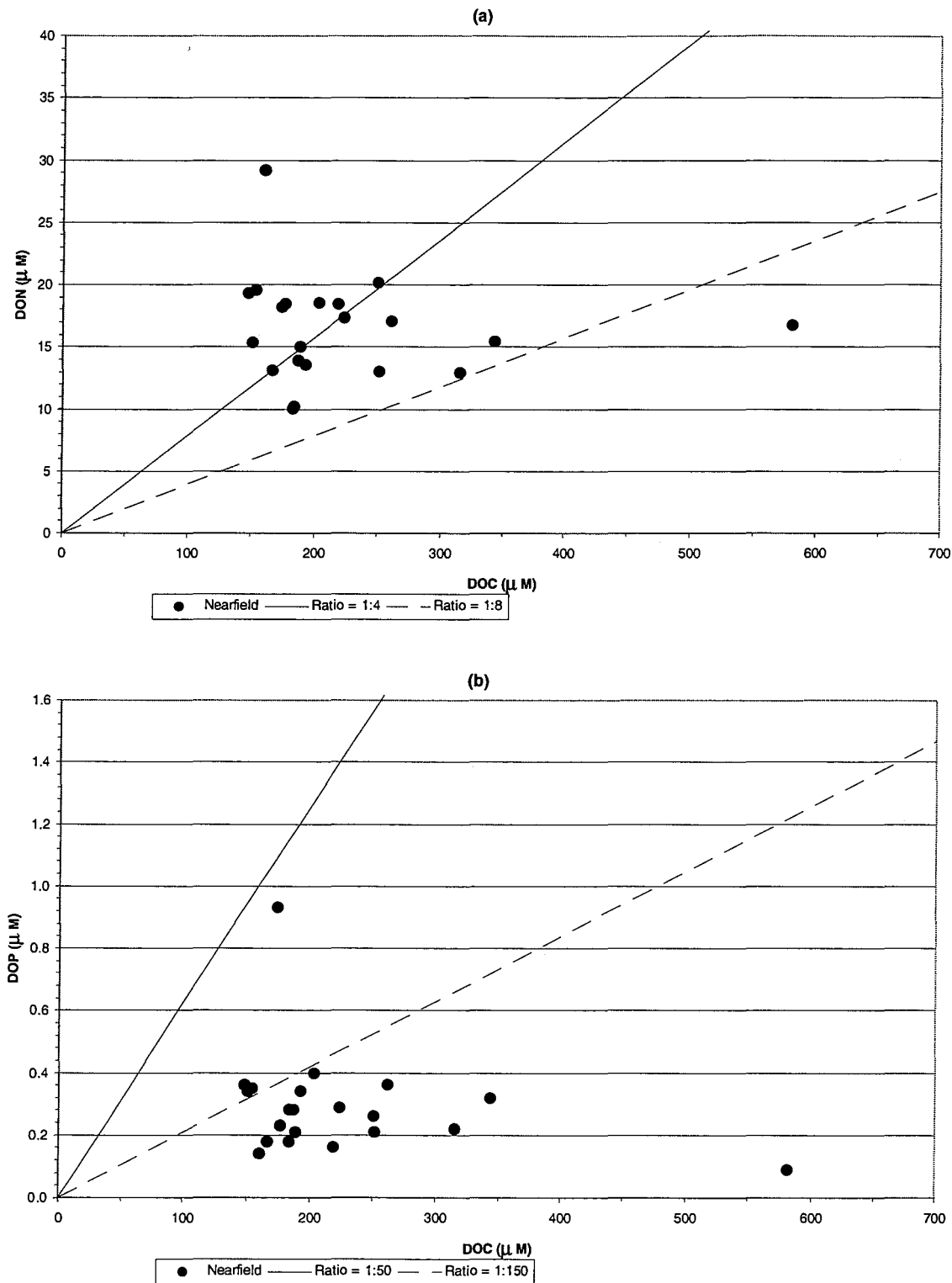


Figure D-128. Nutrient vs. Nutrient Plots for Nearfield Survey WN989, (Jul 98)

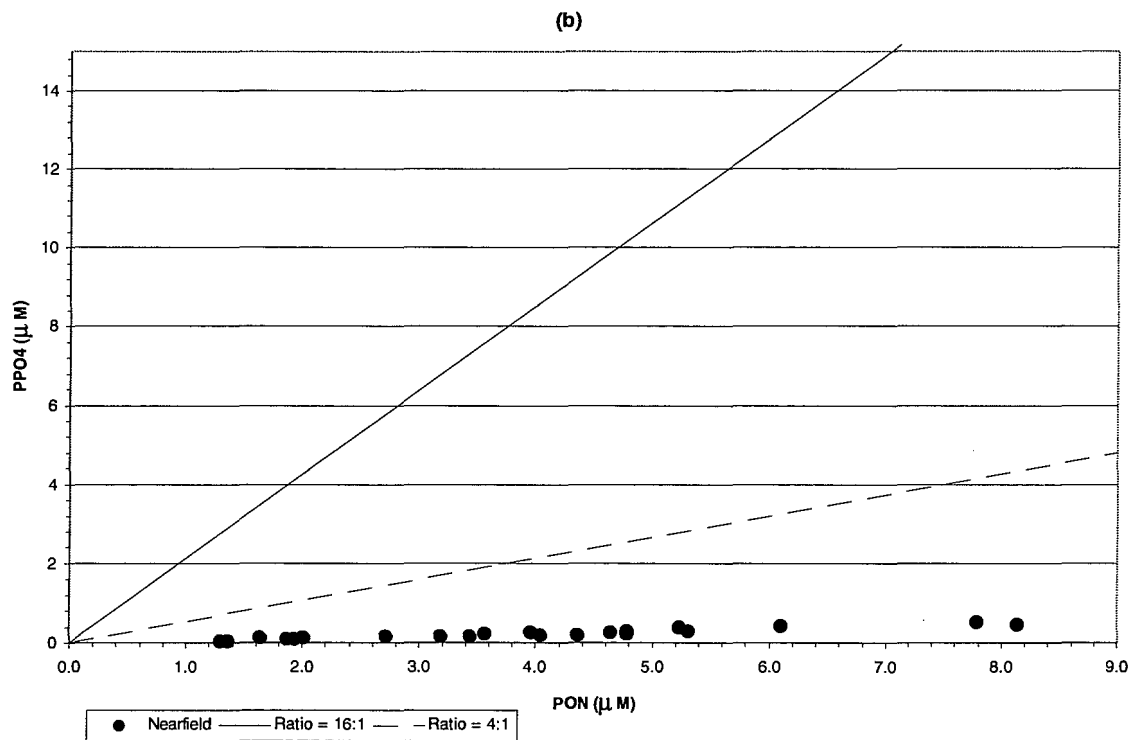
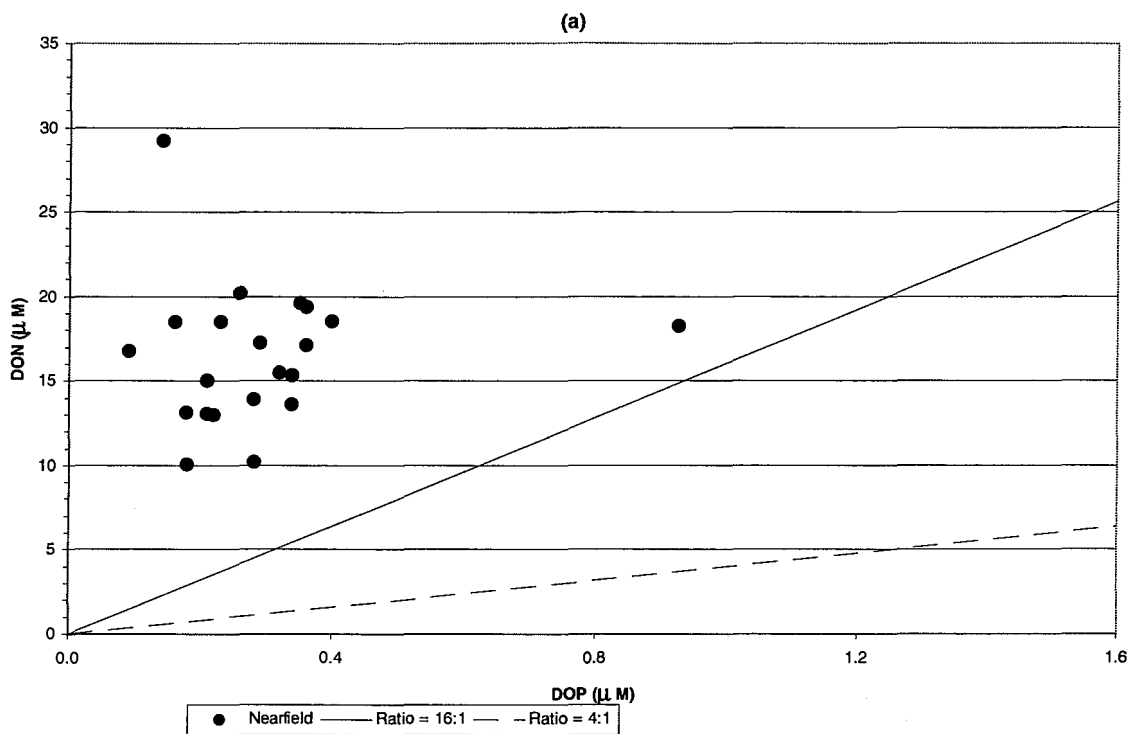


Figure D-129. Nutrient vs. Nutrient Plots for Nearfield Survey WN989, (Jul 98)

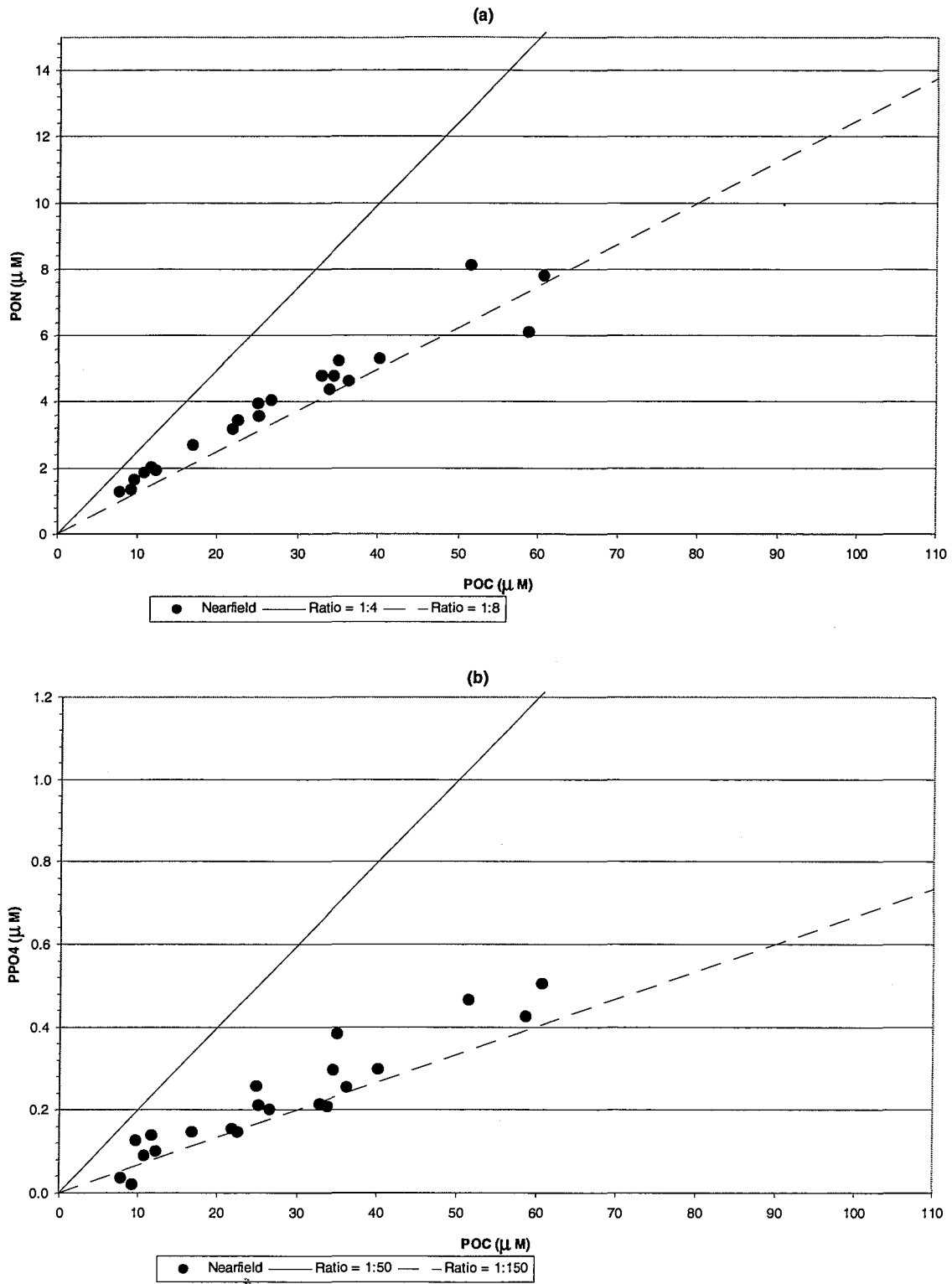


Figure D-130. Nutrient vs. Nutrient Plots for Nearfield Survey WN989, (Jul 98)

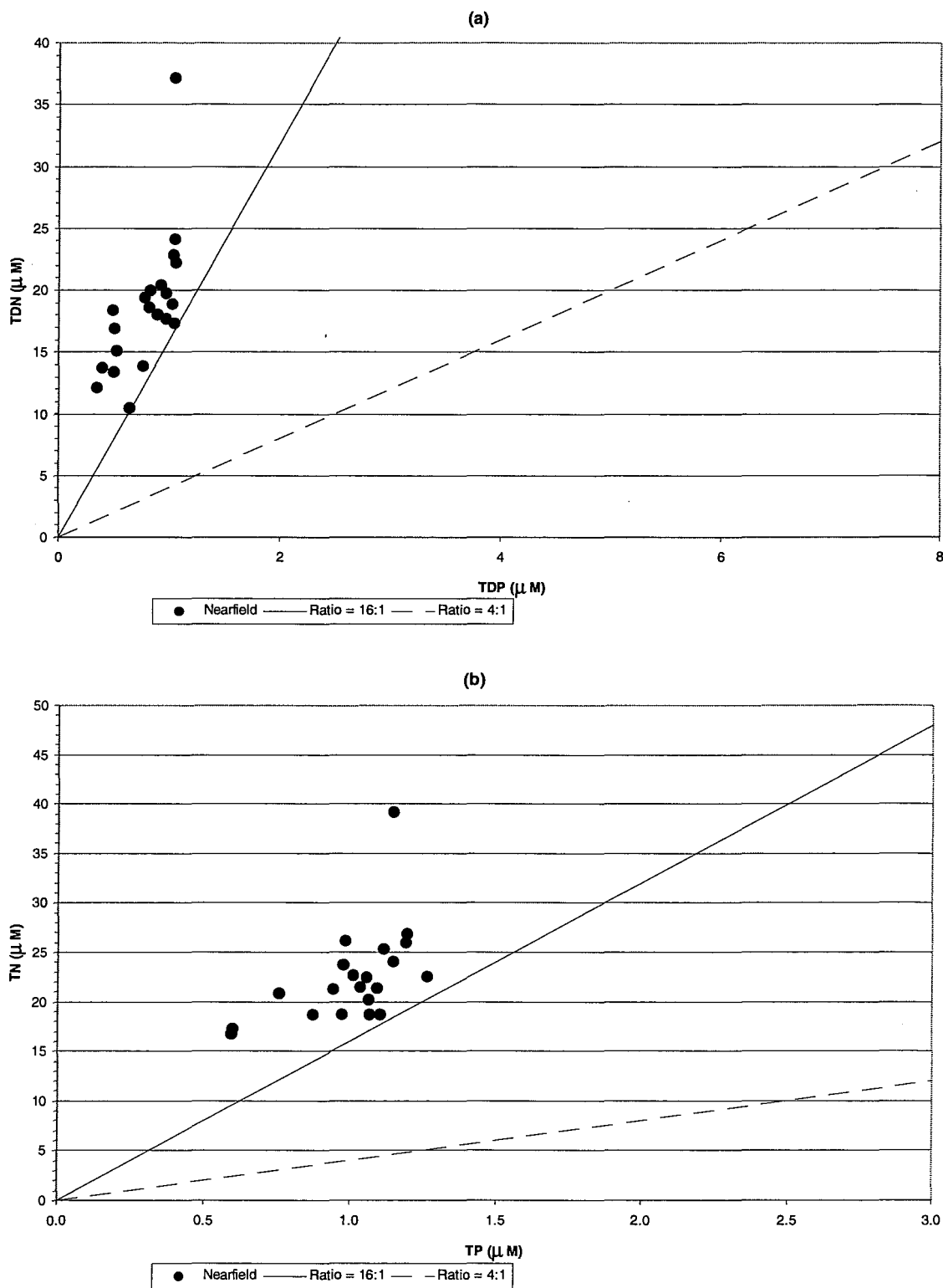


Figure D-131. Nutrient vs. Nutrient Plots for Nearfield Survey WN989, (Jul 98)

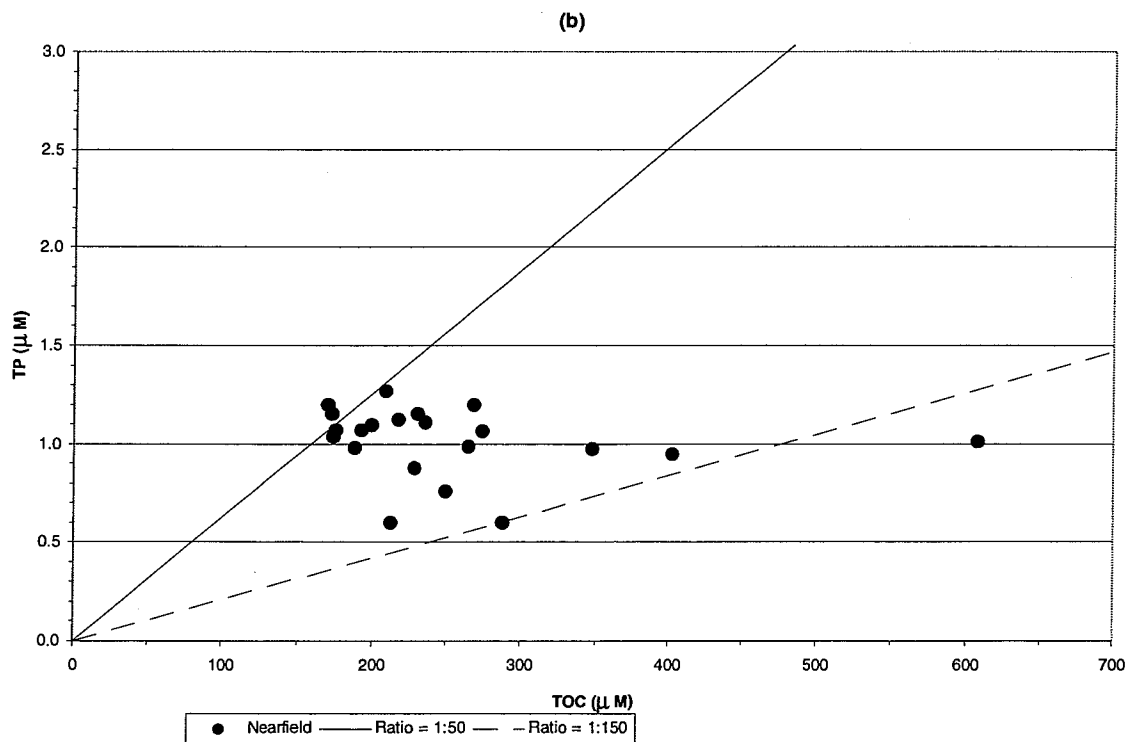
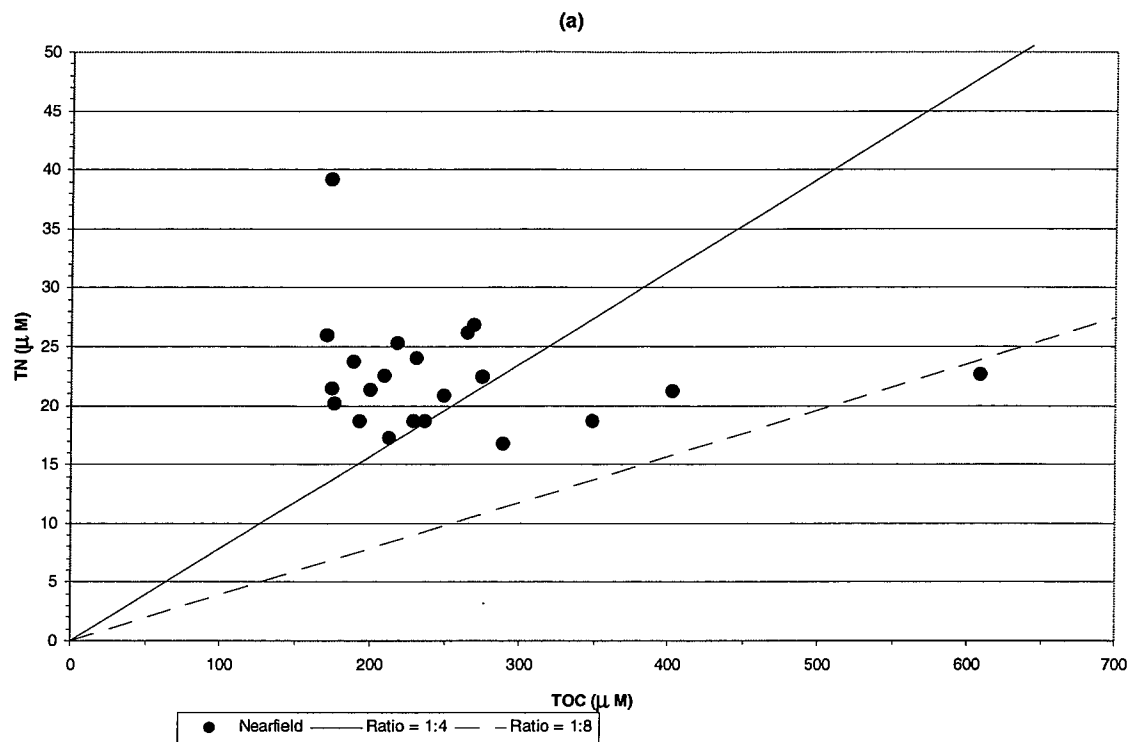


Figure D-132. Nutrient vs. Nutrient Plots for Nearfield Survey WN989, (Jul 98)

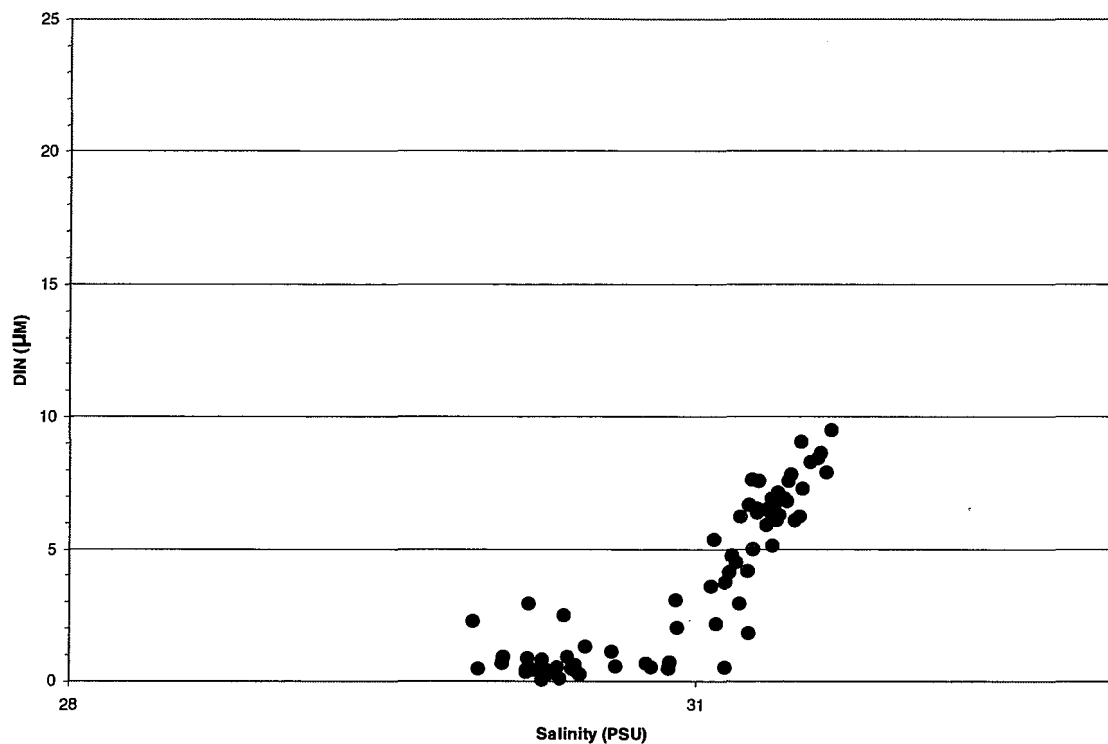


Figure D-133. Nutrient vs. Salinity Plots for Nearfield Survey WN989, (Jul 98)

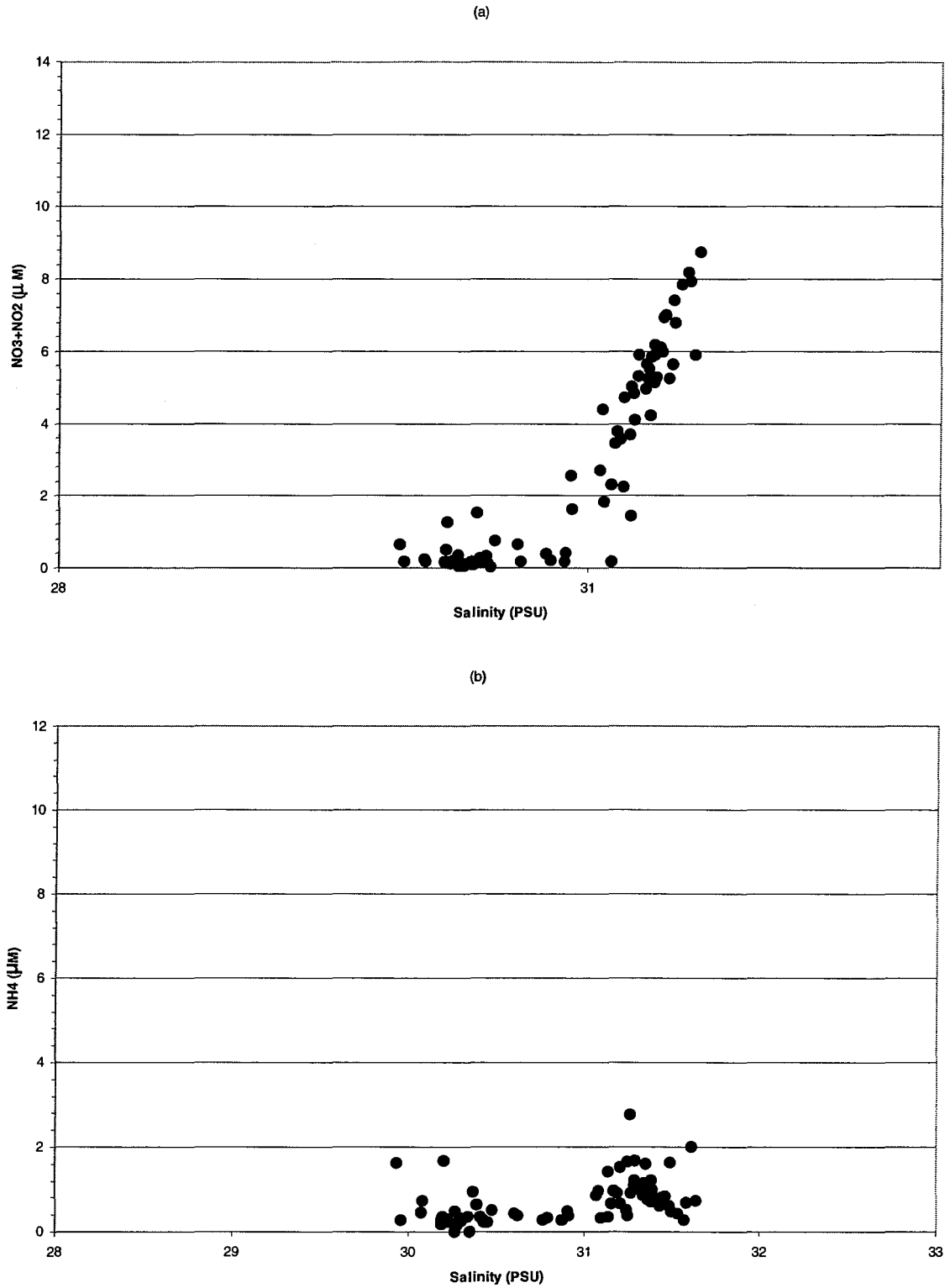


Figure D-134. Nutrient vs. Salinity Plots for Nearfield Survey WN989, (Jul 98)

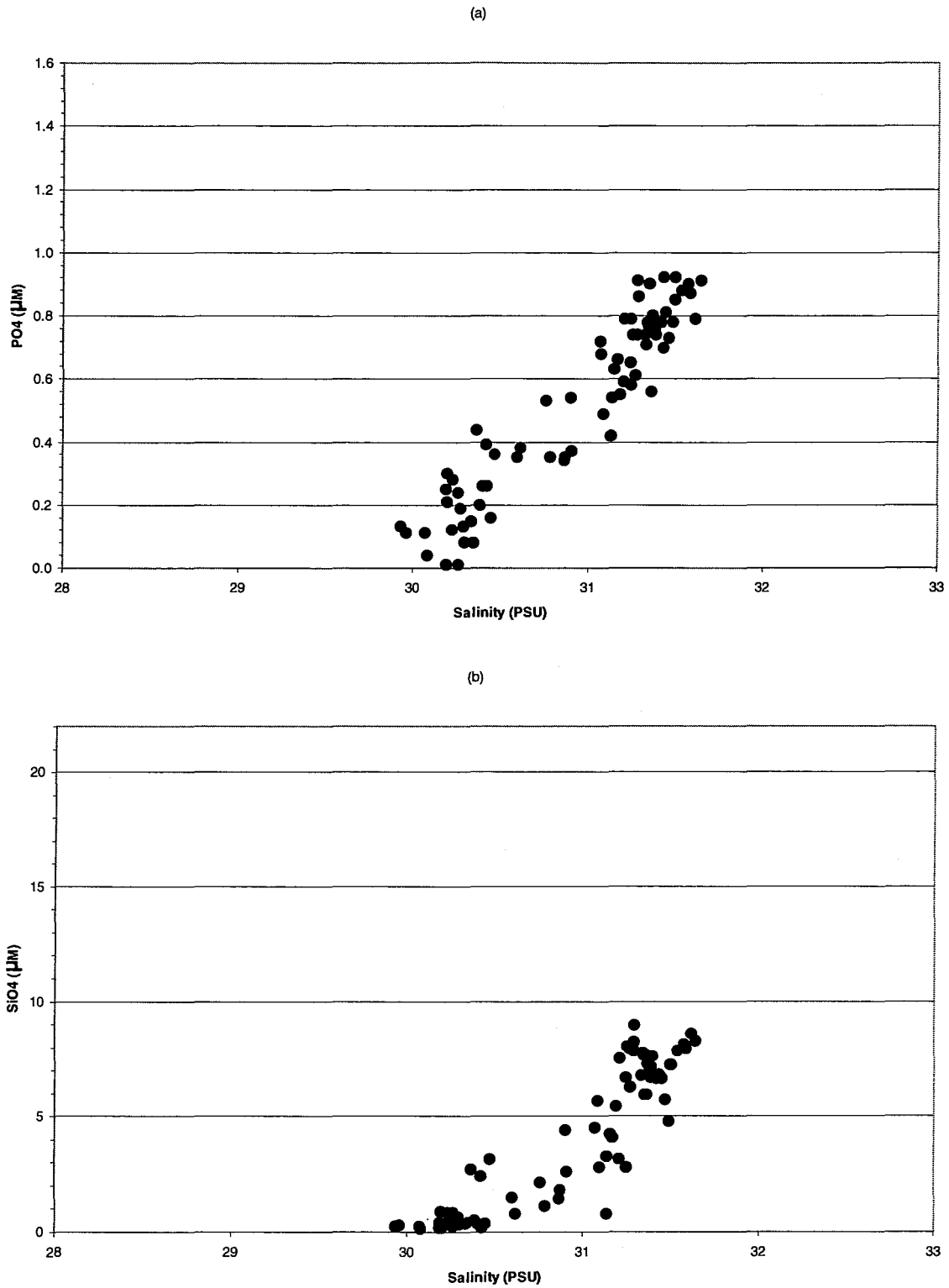


Figure D-135. Nutrient vs. Salinity Plots for Nearfield Survey WN989, (Jul 98)

APPENDIX E

Photosynthesis-Irradiance (P-I) Curves

Photosynthesis-Irradiance (P-I) Curves

Productivity (Prod, $\text{mg C m}^{-3} \text{ hr}^{-1}$) versus irradiance (Light, $\mu\text{E m}^{-2} \text{ sec}^{-1}$) curves for the period 9 February to 23 July 1998. Comprehensive data are presented for each cruise by station (N04, N18, F23) and by depth (surface, mid-surface, middle, mid-bottom and bottom) Productivity calculations (Appendix A) utilized light attenuation data from a CTD-mounted $4\text{-}\pi$ sensor and incident light time-series data from a $2\text{-}\pi$ irradiance sensor located on Deer Island, MA. After collection of the productivity samples, they were transported to the Marine Ecosystems Research Laboratory (MERL) where they were incubated in temperature controlled incubators. Hourly productivity measurements were converted to daily values by fitting the measured hourly rates and light data to one of two P-I models (with or without photoinhibition) Using the fitted parameters, the measured incident light, and the light attenuation data, production rates were calculated for each 15-minute interval over the daylight period (centered from 6 AM to 6 PM), summed for each sampling depth, then integrated over depth to give areal production for each station.

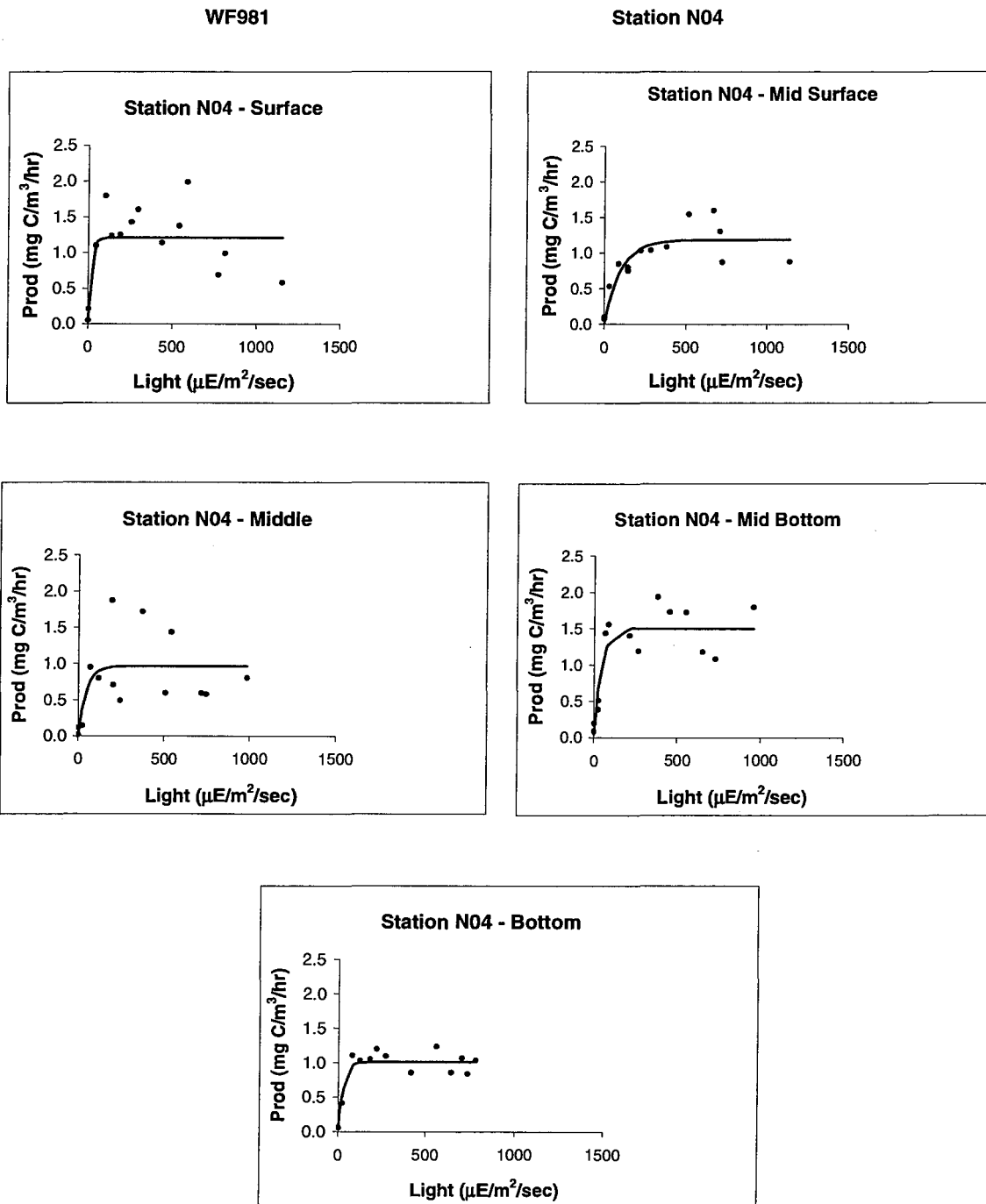


Figure E-1. Photosynthesis-Irradiance (P-I) Curves for Station N04 from Farfield Survey WF981 (Feb 98)

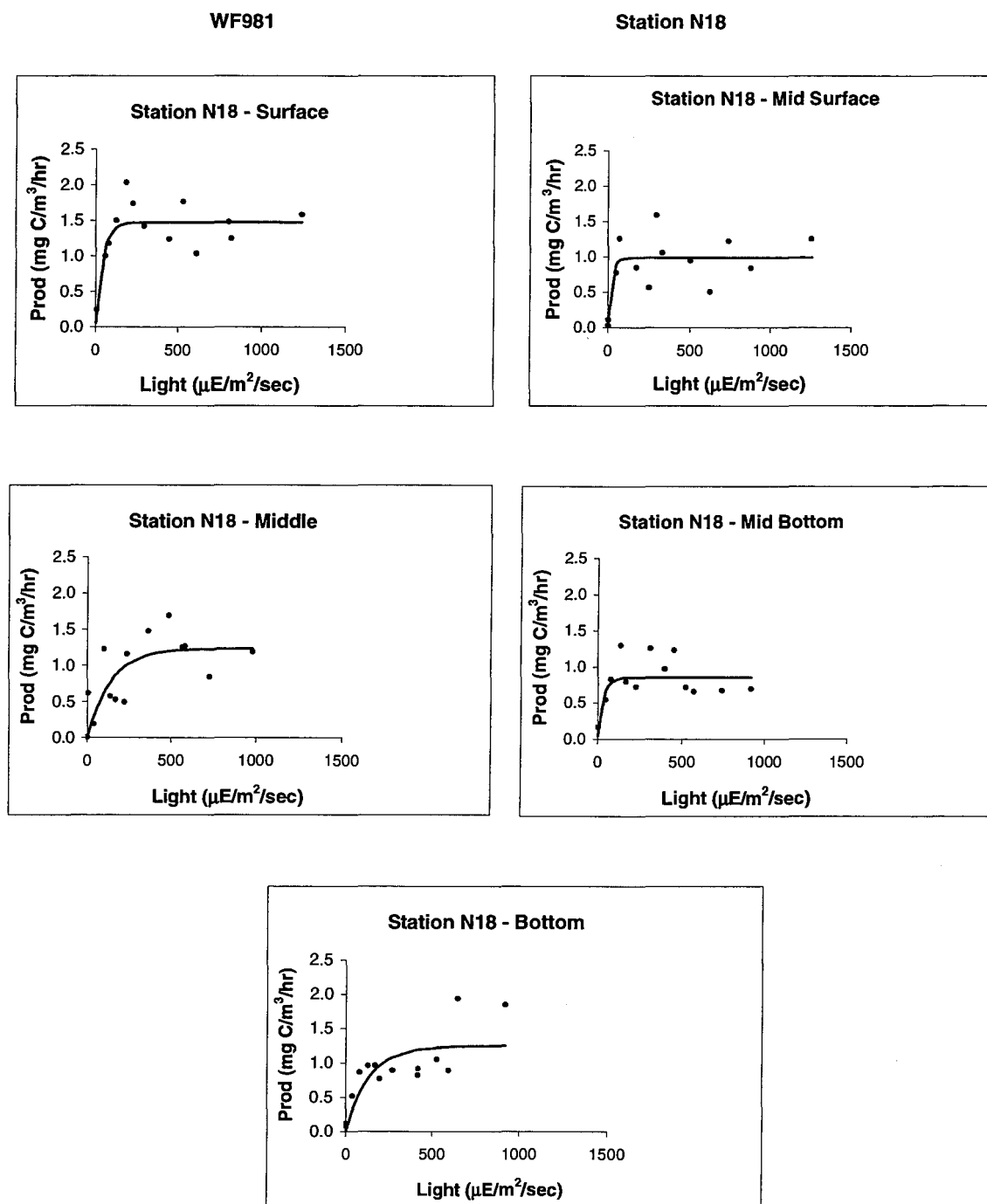


Figure E-2. Photosynthesis-Irradiance (P-I) Curves for Station N18 from Farfield Survey WF981 (Feb 98)

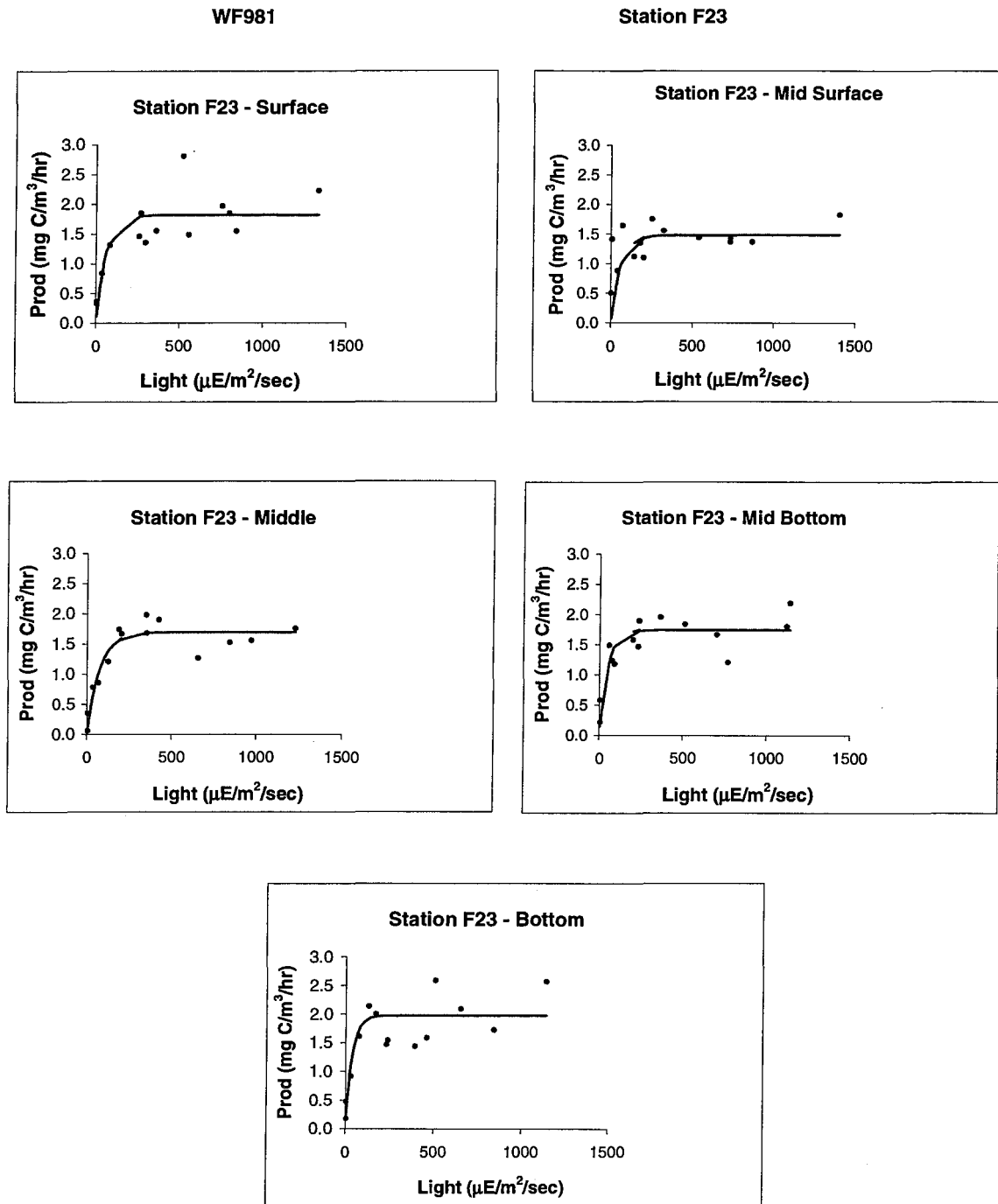


Figure E-3. Photosynthesis-Irradiance (P-I) Curves for Station F23 from Farfield Survey WF981 (Feb 98)

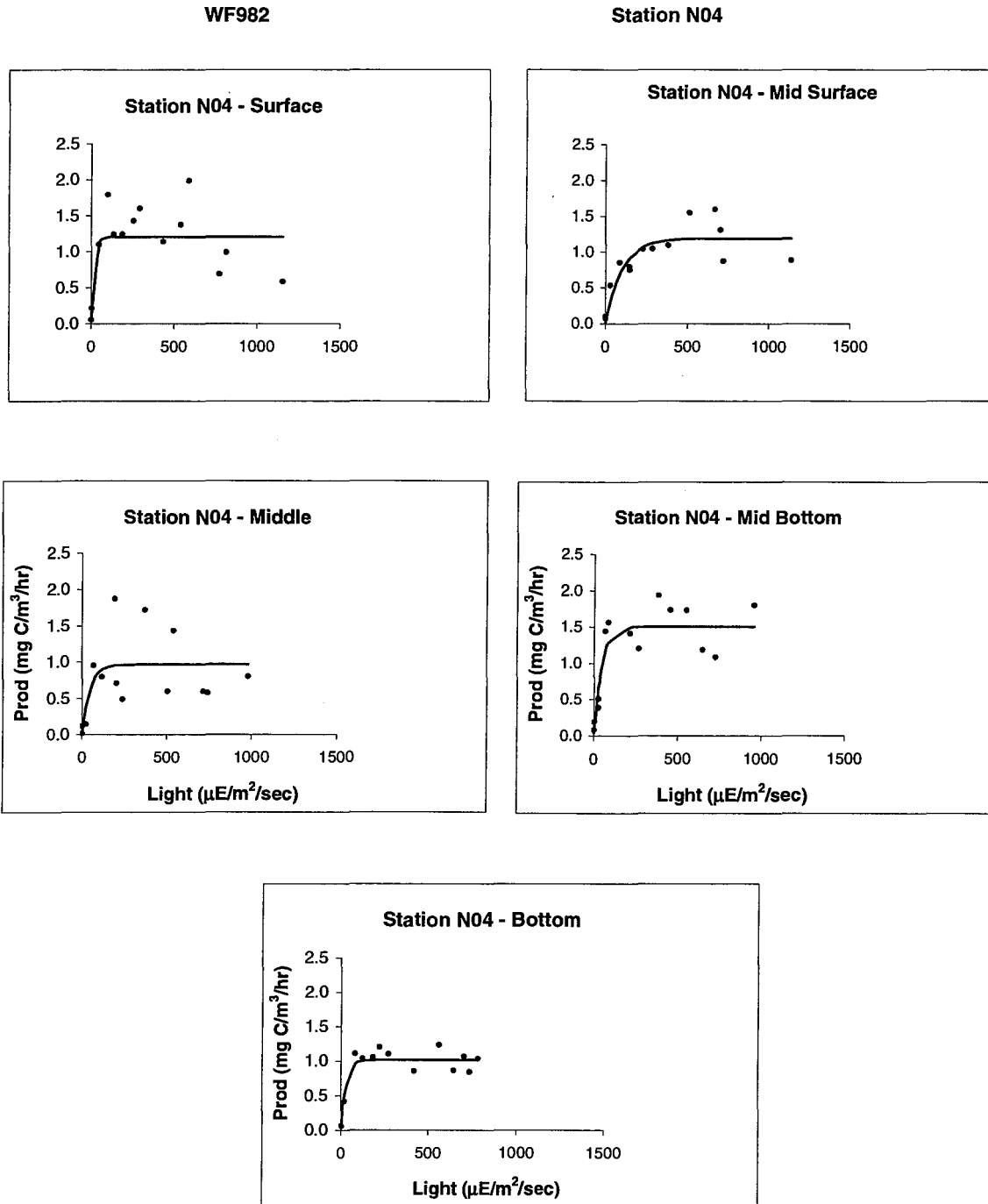


Figure E-4. Photosynthesis-Irradiance (P-I) Curves for Station N04 from Farfield Survey WF982 (Feb 98)

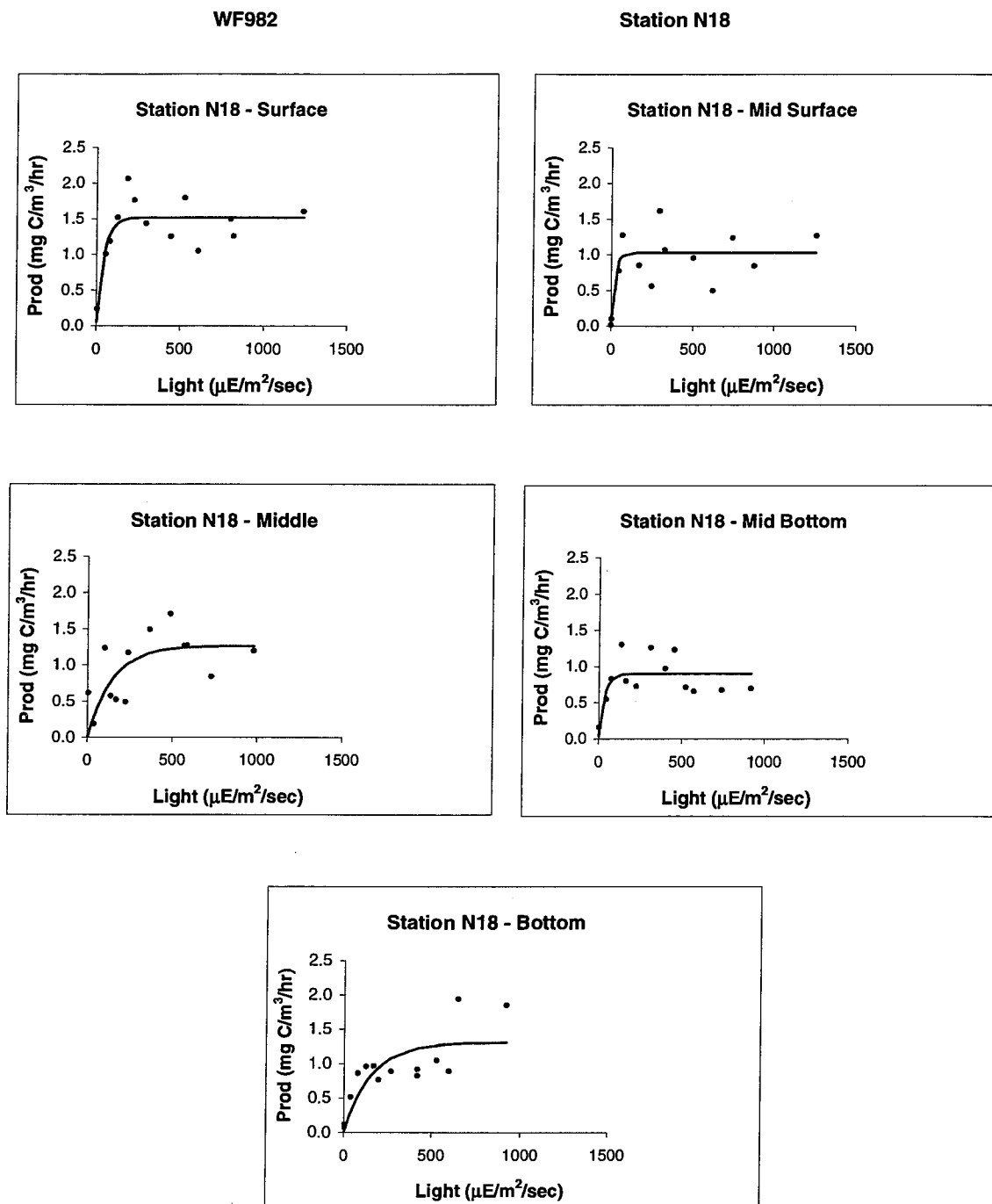


Figure E-5. Photosynthesis-Irradiance (P-I) Curves for Station N18 from Farfield Survey WF982 (Feb 98)

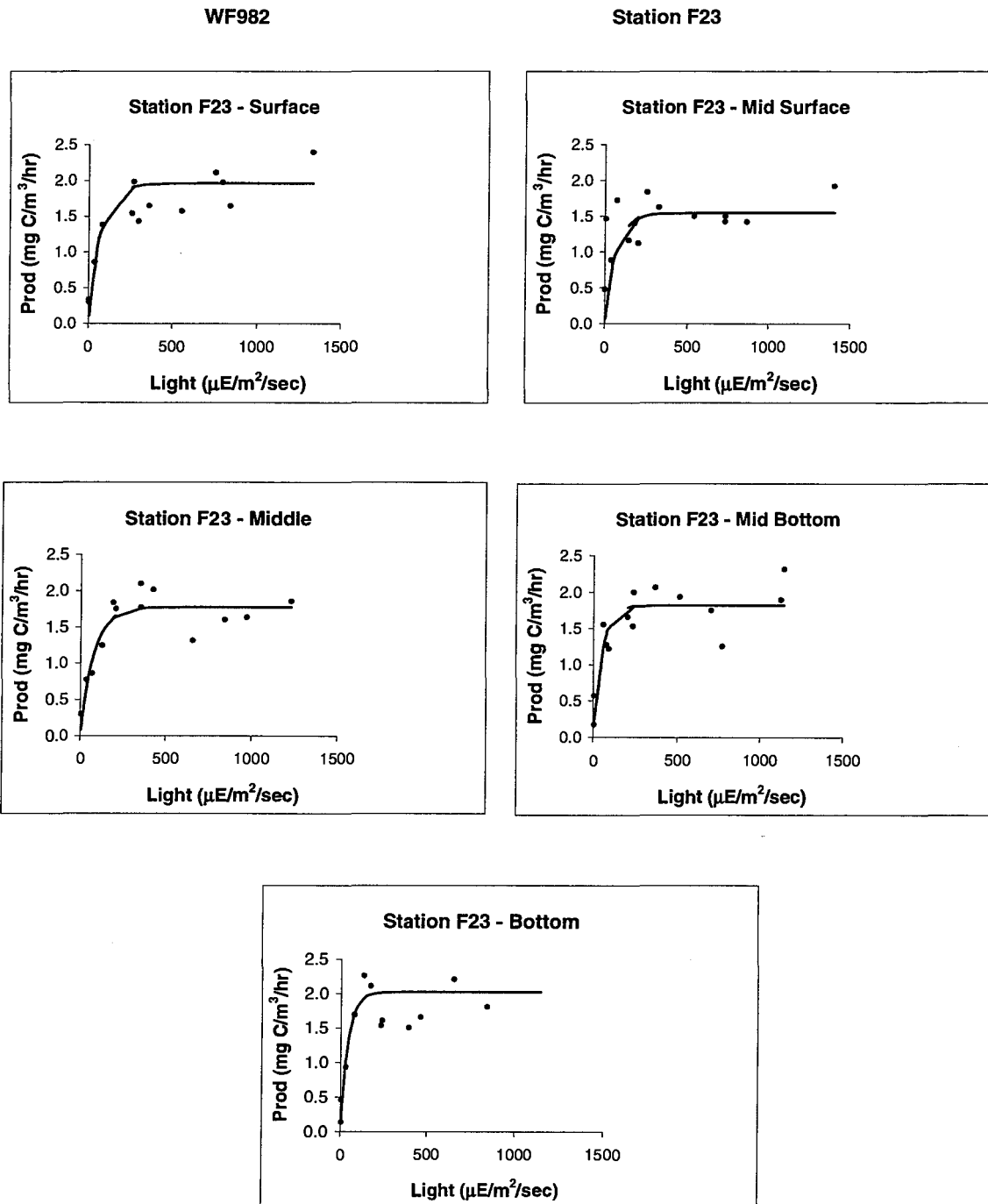


Figure E-6. Photosynthesis-Irradiance (P-I) Curves for Station F23 from Farfield Survey WF982 (Feb 98)

WN983

Station N04

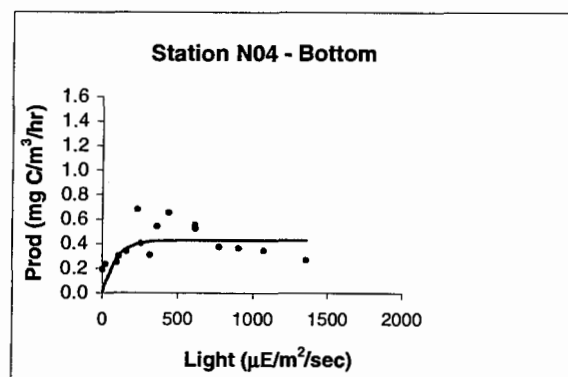
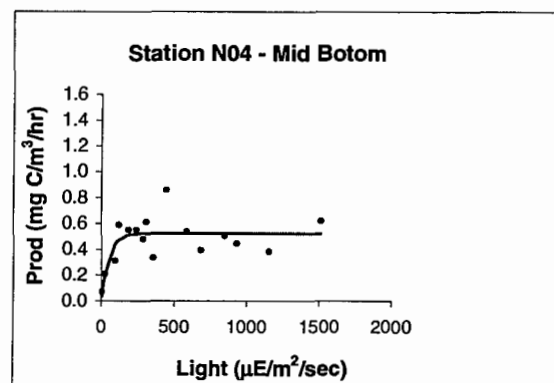
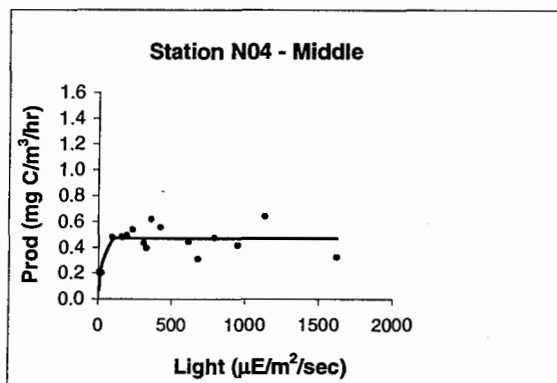
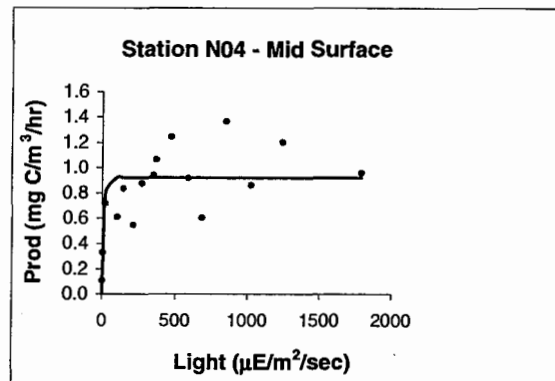
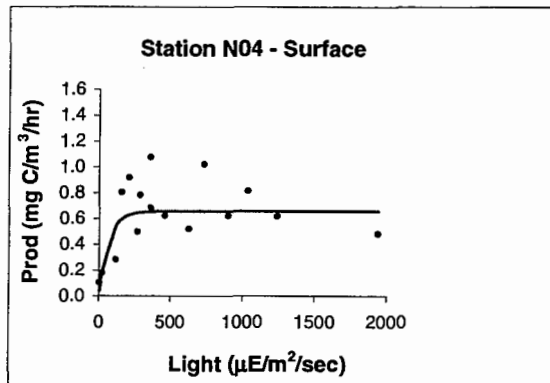


Figure E-7. Photosynthesis-Irradiance (P-I) Curves for Station N04 from Nearfield Survey WN983 (Mar 98)

WN983

Station N18

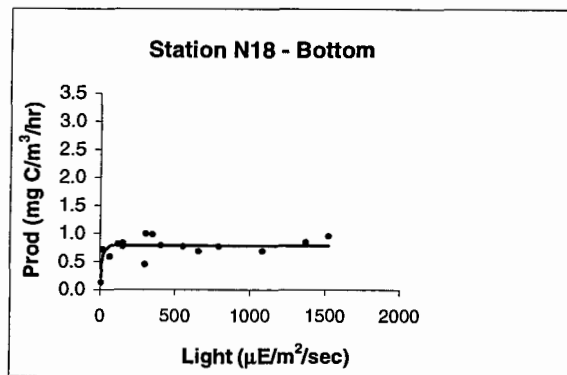
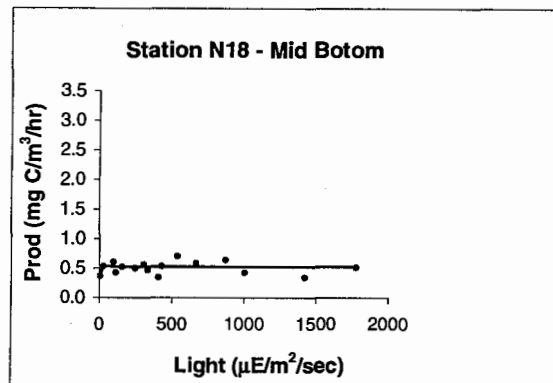
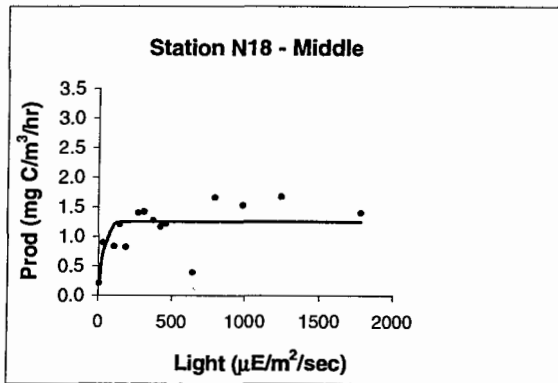
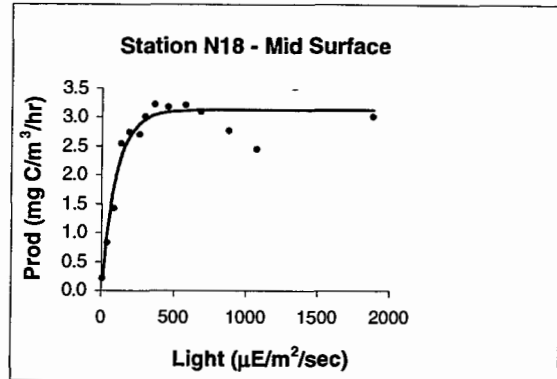
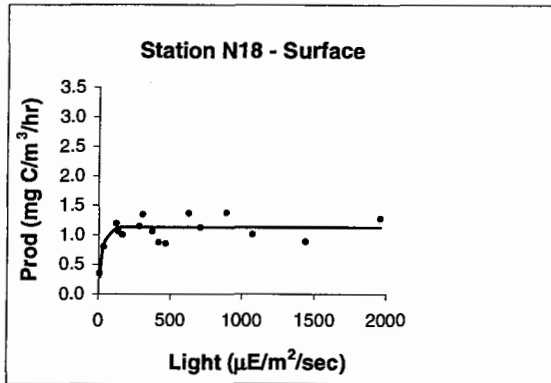
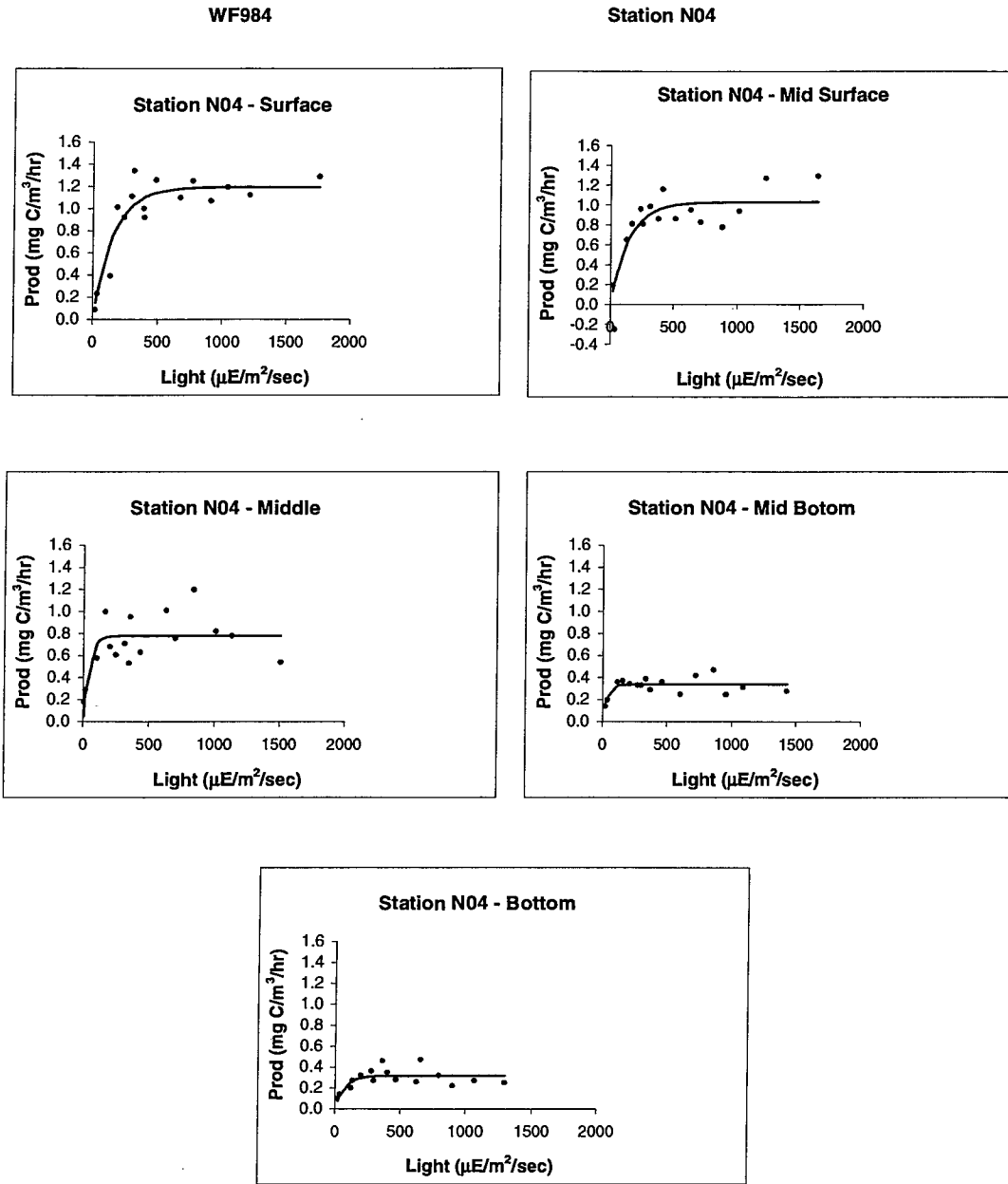


Figure E-8. Photosynthesis-Irradiance (P-I) Curves for Station N18 from Nearfield Survey
WN983 (Mar 98)



**Figure E-9. Photosynthesis-Irradiance (P-I) Curves for Station N04 from Fairfield Survey
WF984 (Apr 98)**

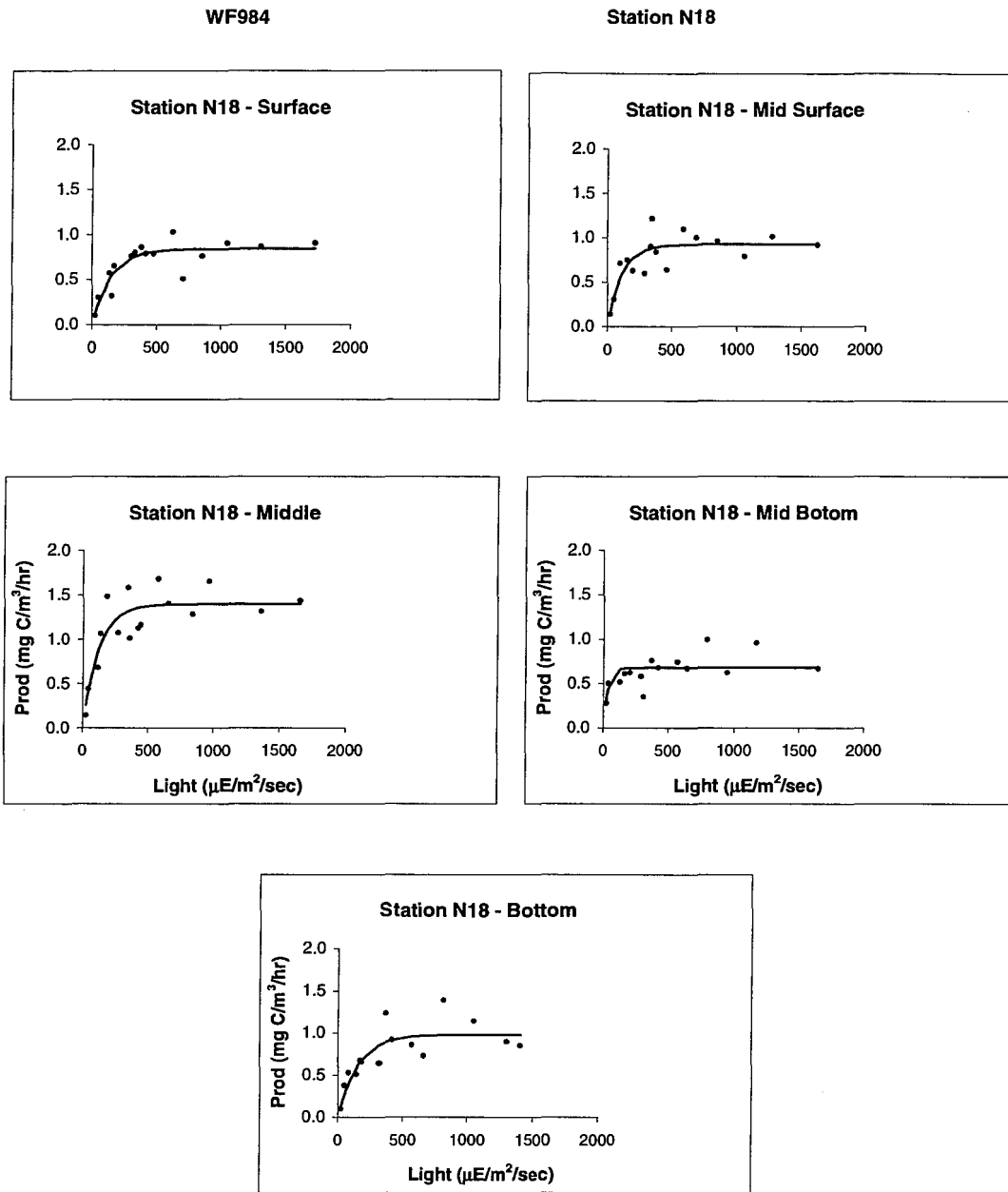


Figure E-10. Photosynthesis-Irradiance (P-I) Curves for Station N18 from Farfield Survey WF984 (Apr 98)

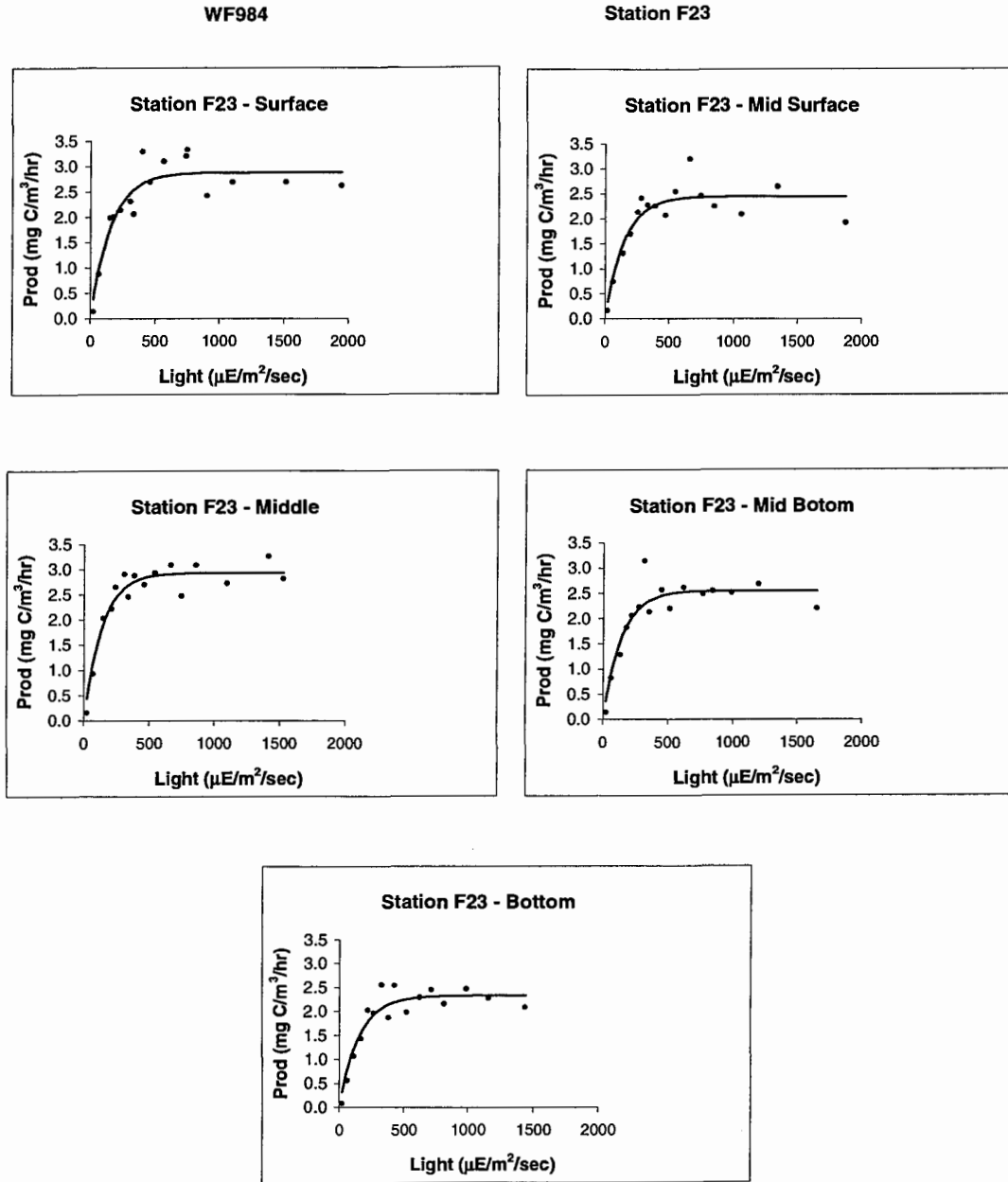


Figure E-11. Photosynthesis-Irradiance (P-I) Curves for Station F23 from Farfield Survey WF984 (Apr 98)

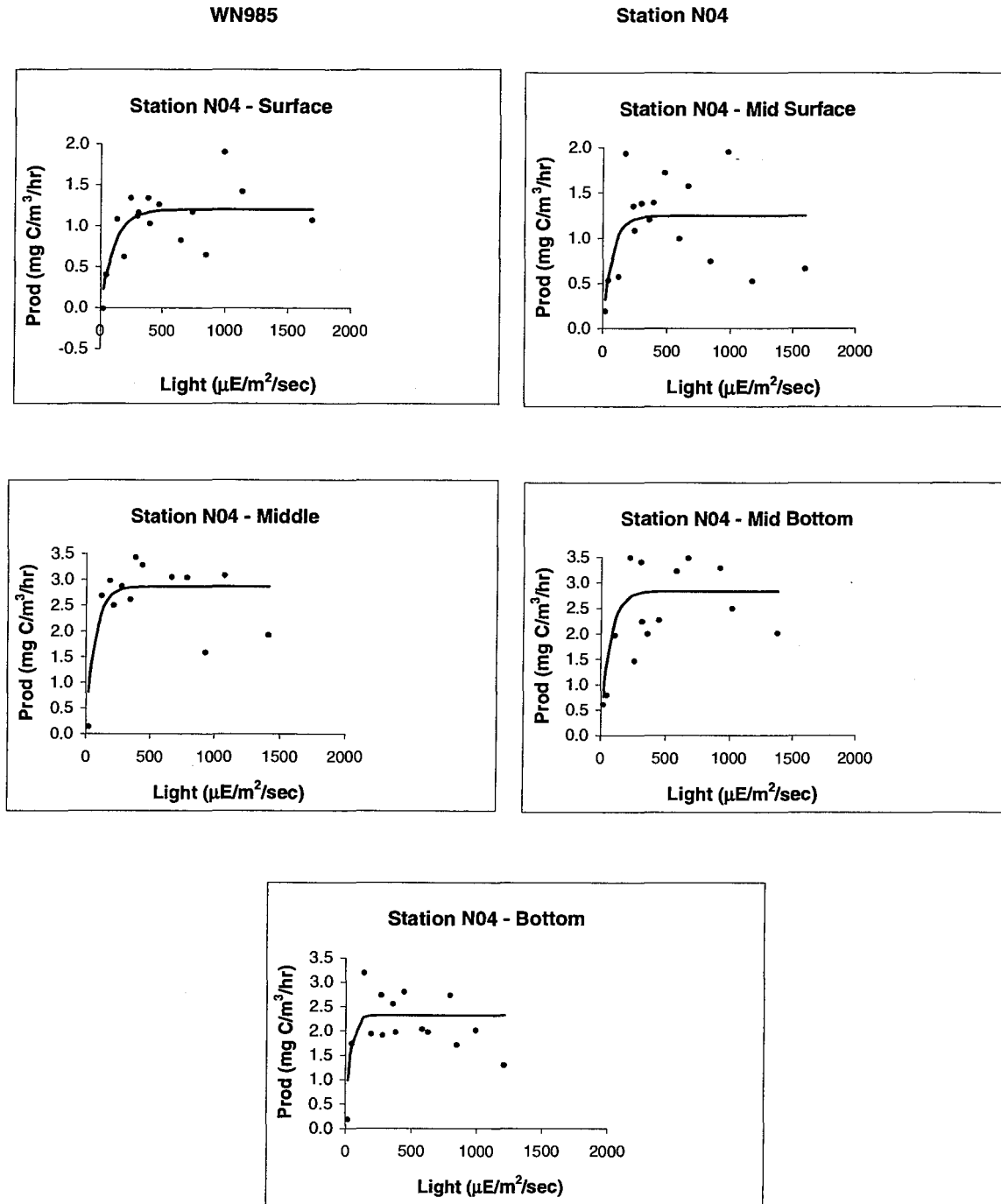


Figure E-12. Photosynthesis-Irradiance (P-I) Curves for Station N04 from Nearfield Survey WN985 (Apr 98)

WN985

Station N18

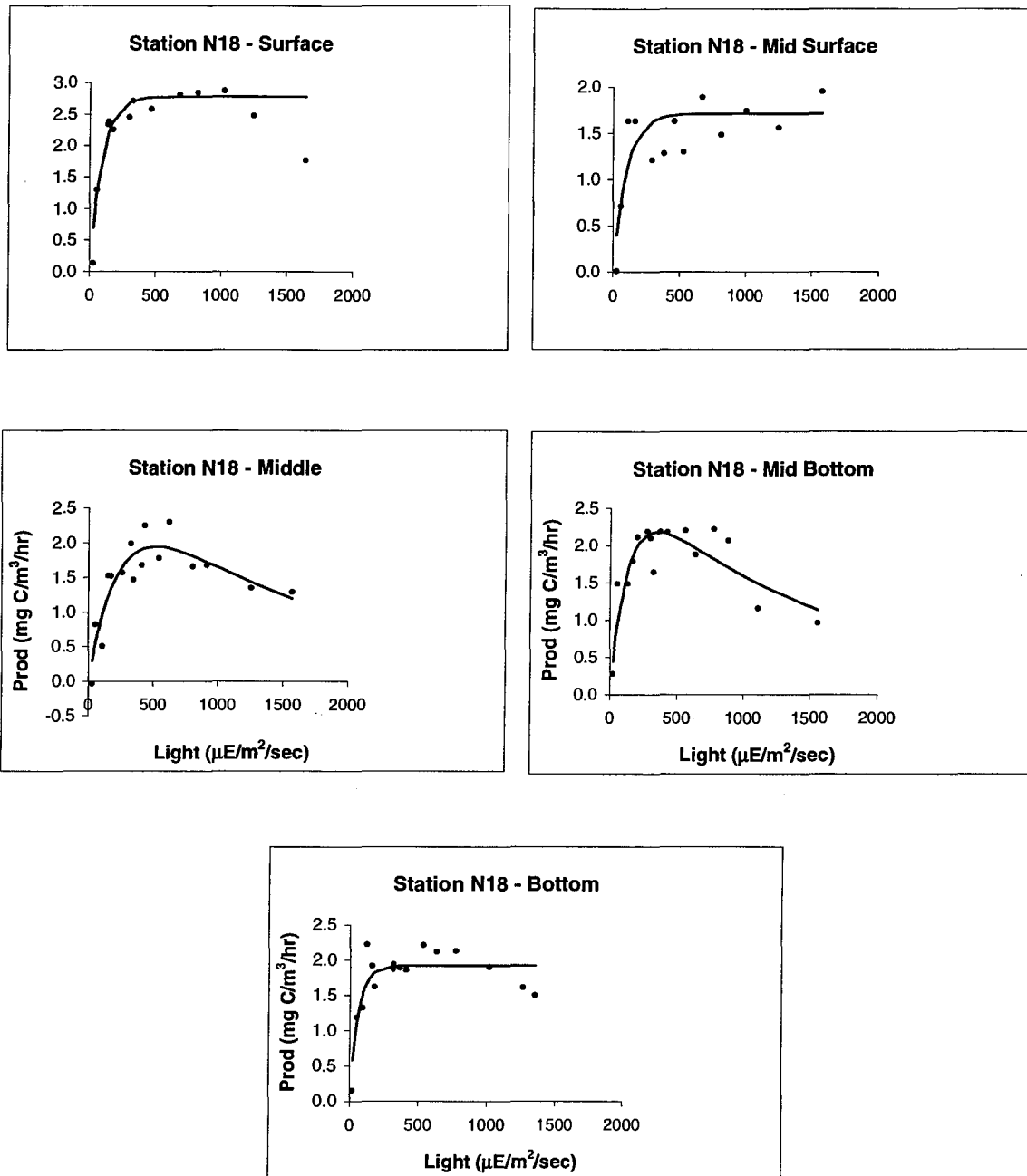


Figure E-13. Photosynthesis-Irradiance (P-I) Curves for Station N18 from Nearfield Survey WN985 (Apr 98)

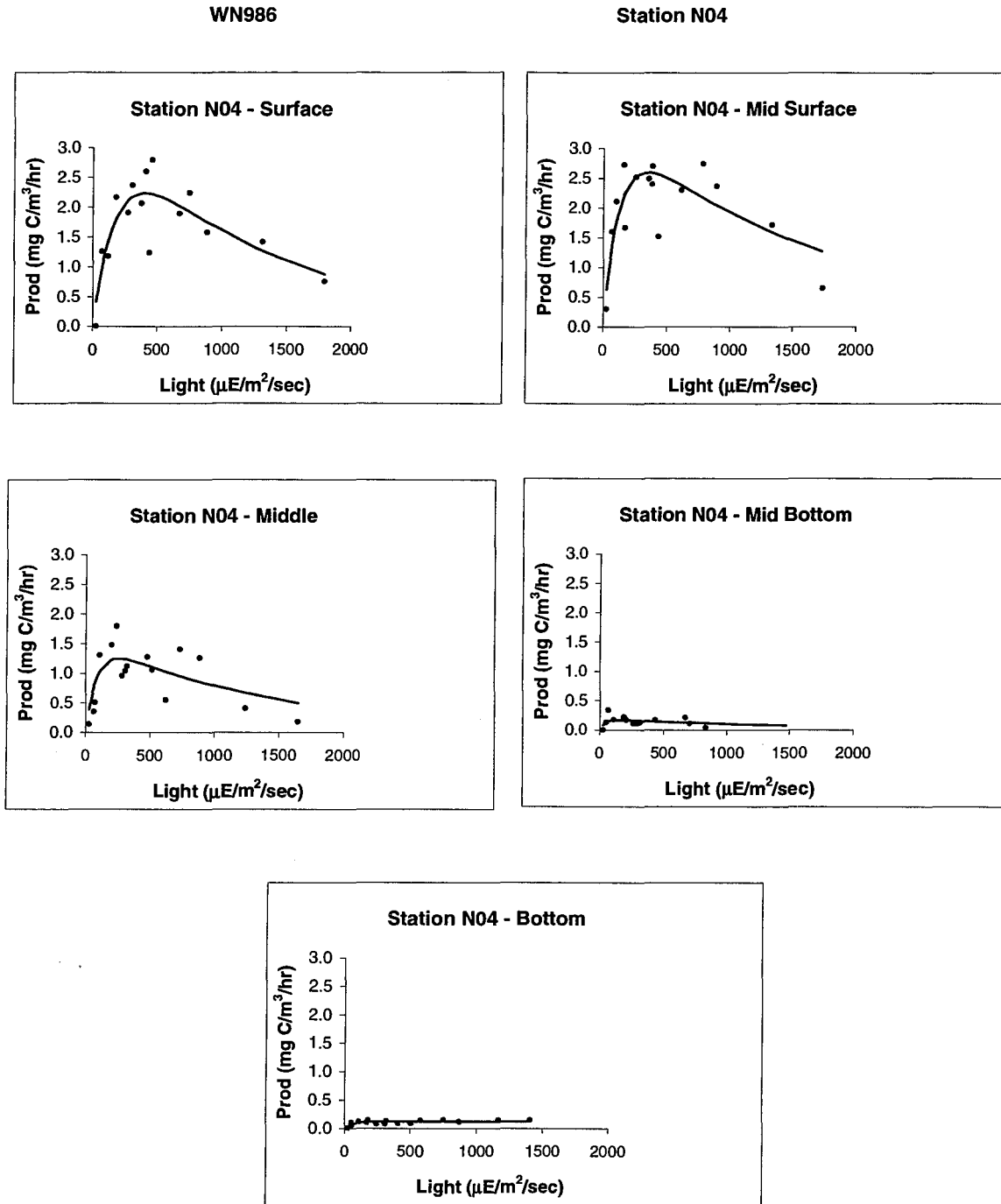


Figure E-14. Photosynthesis-Irradiance (P-I) Curves for Station N04 from Nearfield Survey WN986 (May 98)

WN986

Station N18

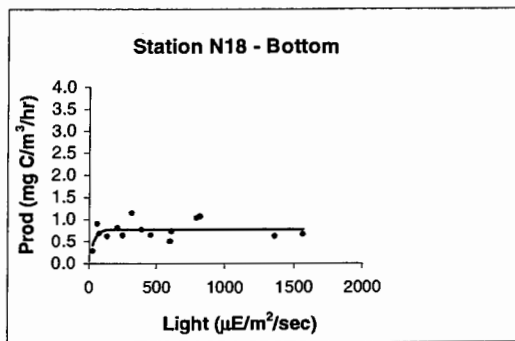
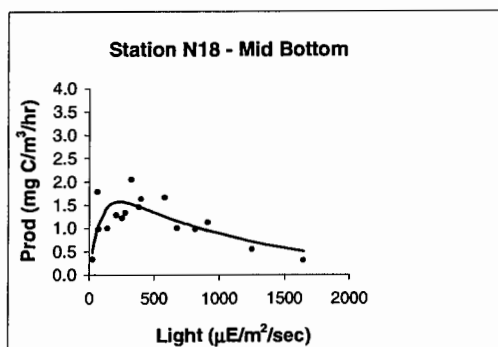
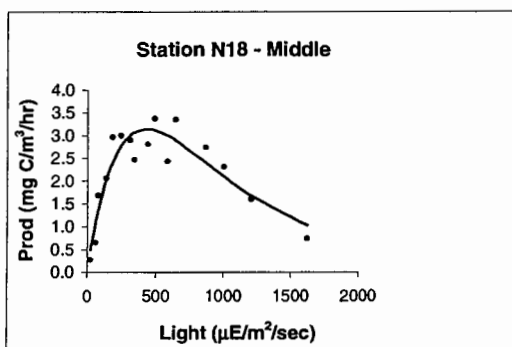
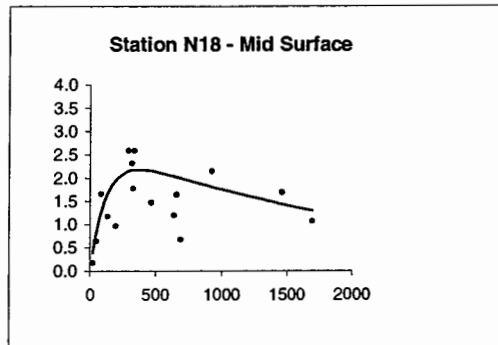
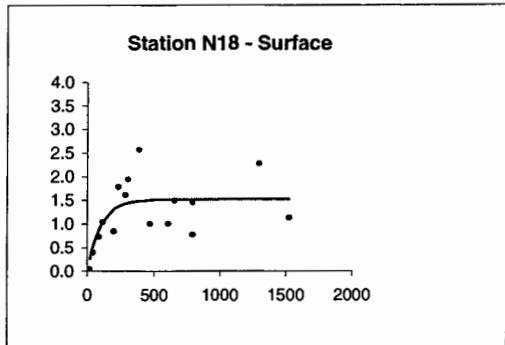


Figure E-15. Photosynthesis-Irradiance (P-I) Curves for Station N18 from Nearfield Survey WN986 (May 98)

WF987

Station N04

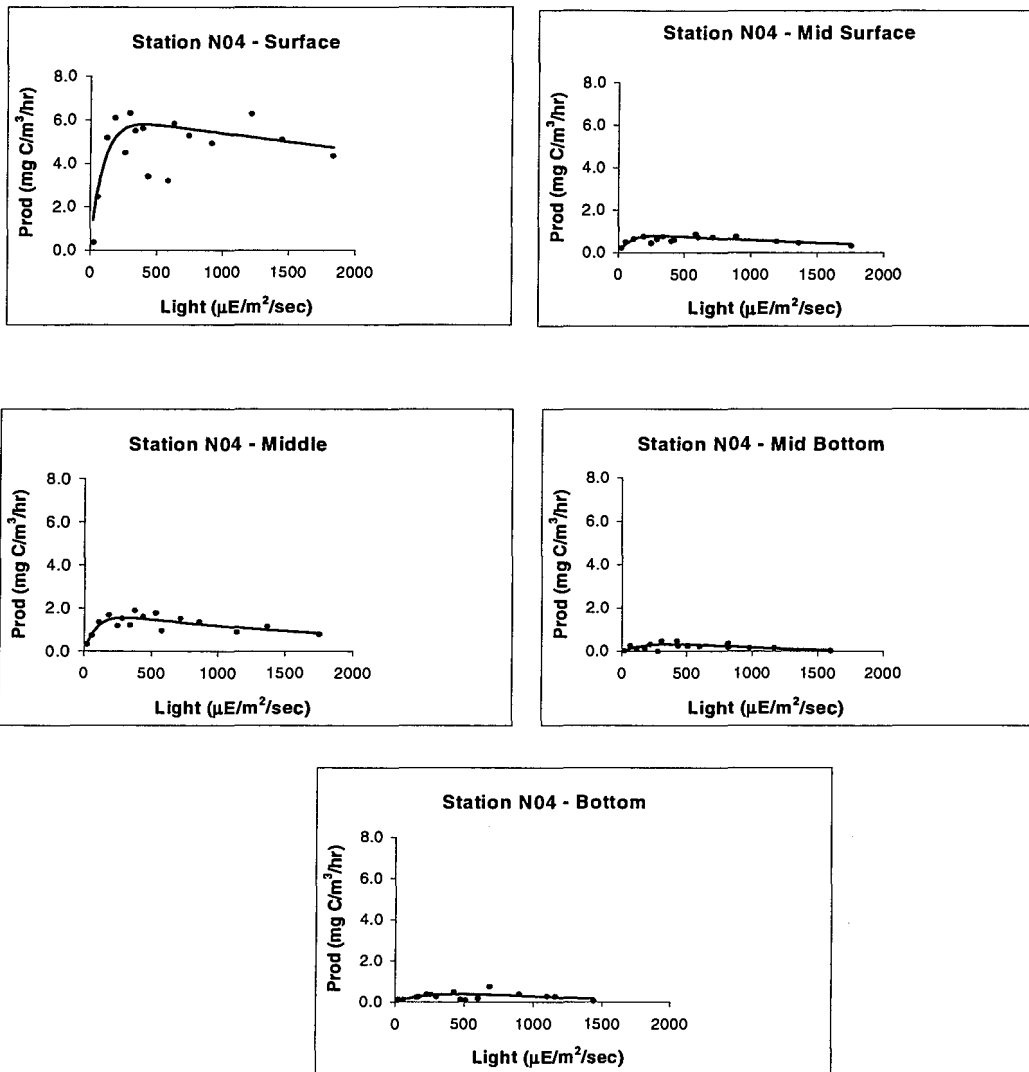


Figure E-16. Photosynthesis-Irradiance (P-I) Curves for Station N04 from Farfield Survey WF987 (Jun 98)

WF987

Station N18

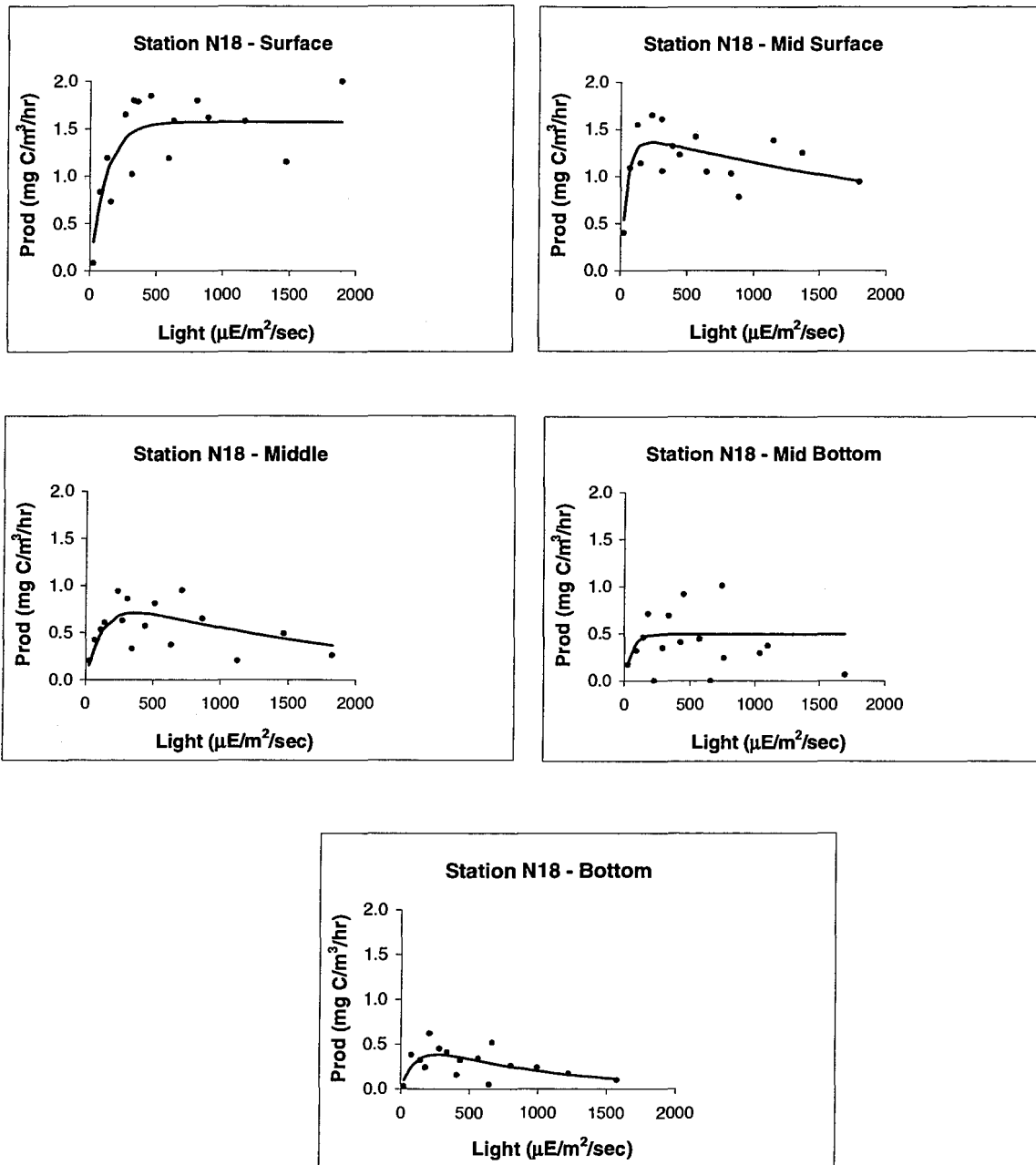


Figure E-17. Photosynthesis-Irradiance (P-I) Curves for Station N18 from Farfield Survey WF987 (Jun 98)

WF987

Station F23

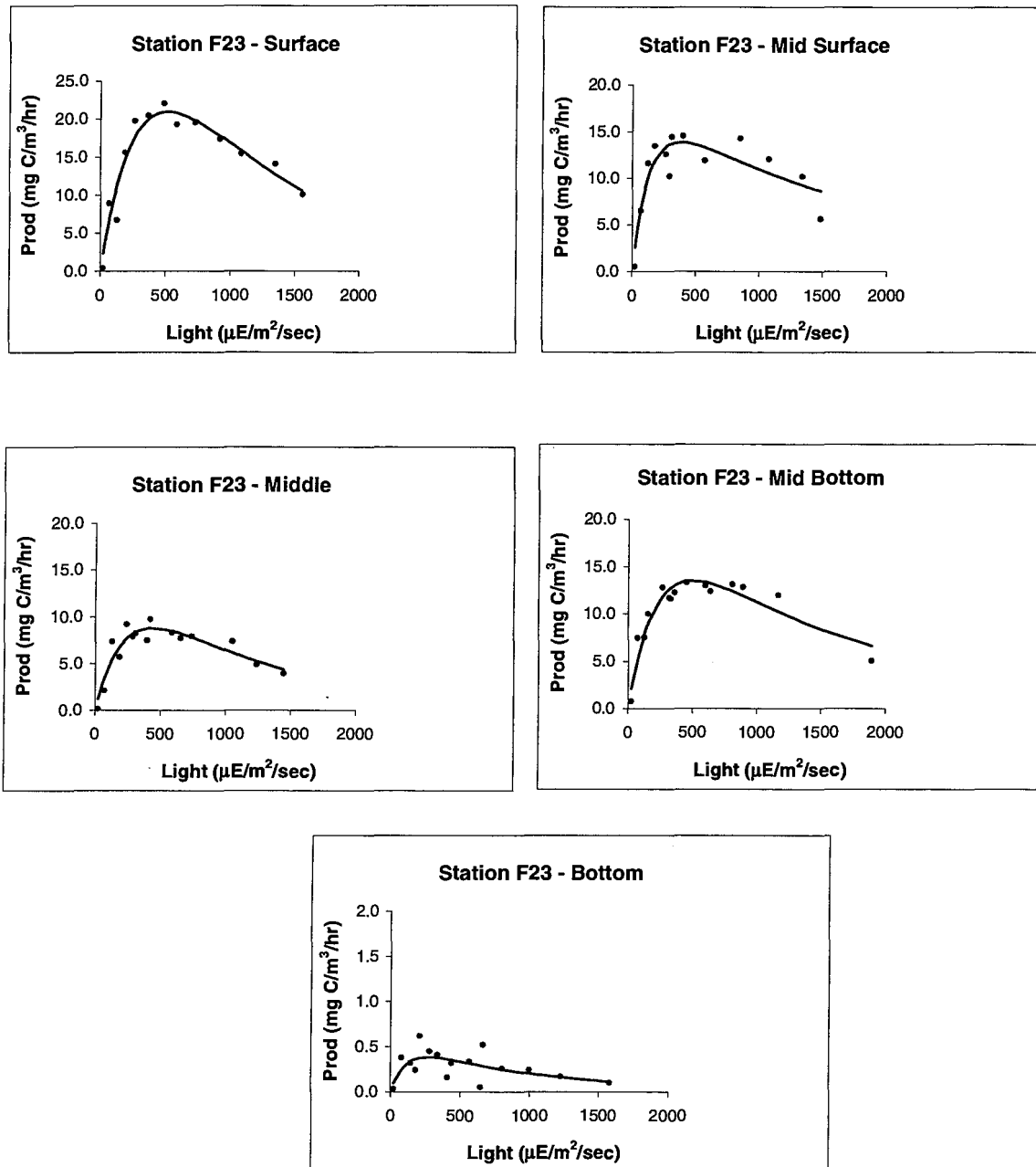


Figure E-18. Photosynthesis-Irradiance (P-I) Curves for Station F23 from Farfield Survey WF987 (Jun 98)

WN988

Station N04

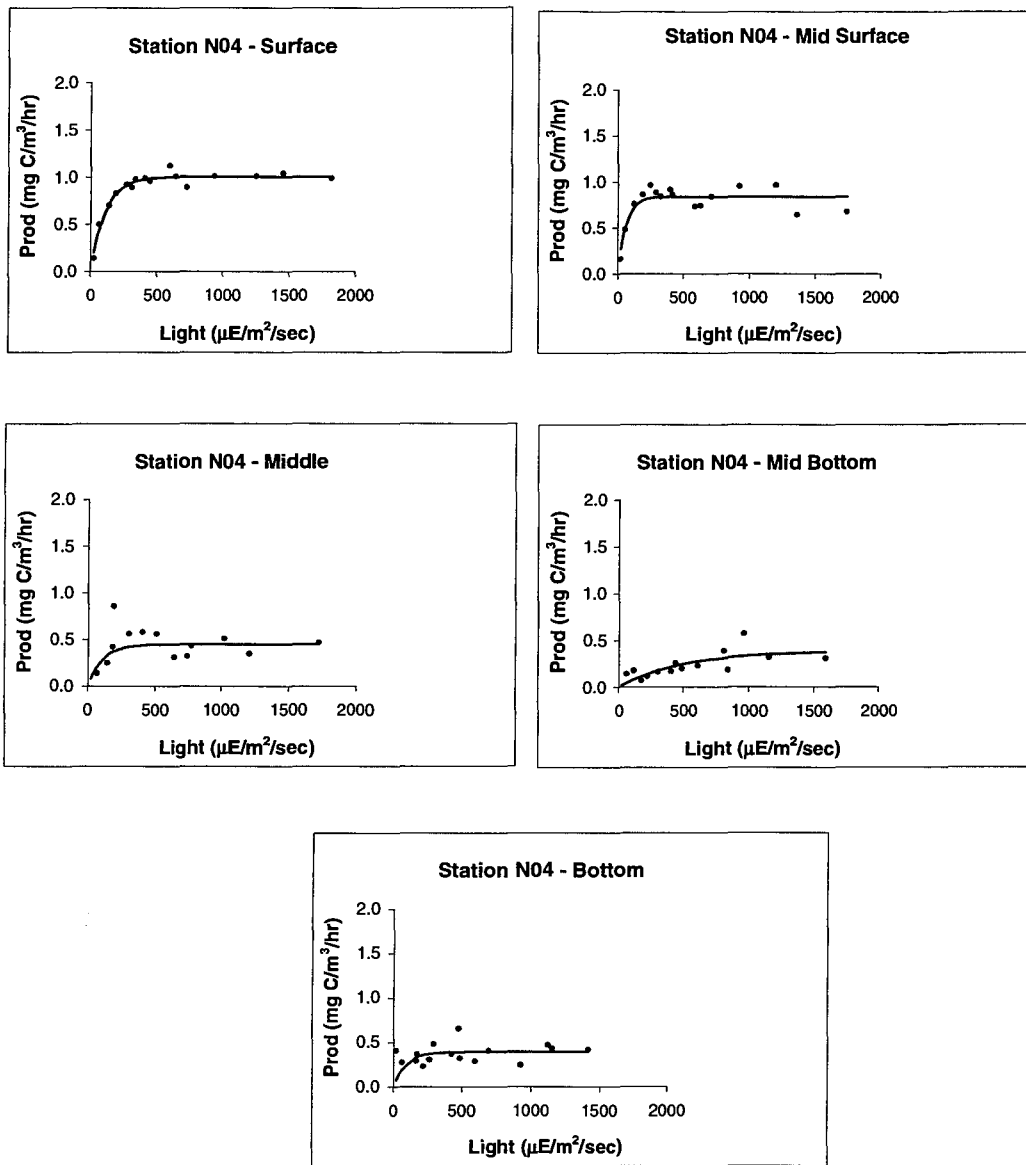


Figure E-19. Photosynthesis-Irradiance (P-I) Curves for Station N04 from Nearfield Survey WN988 (Jul 98)

WN988

Station N18

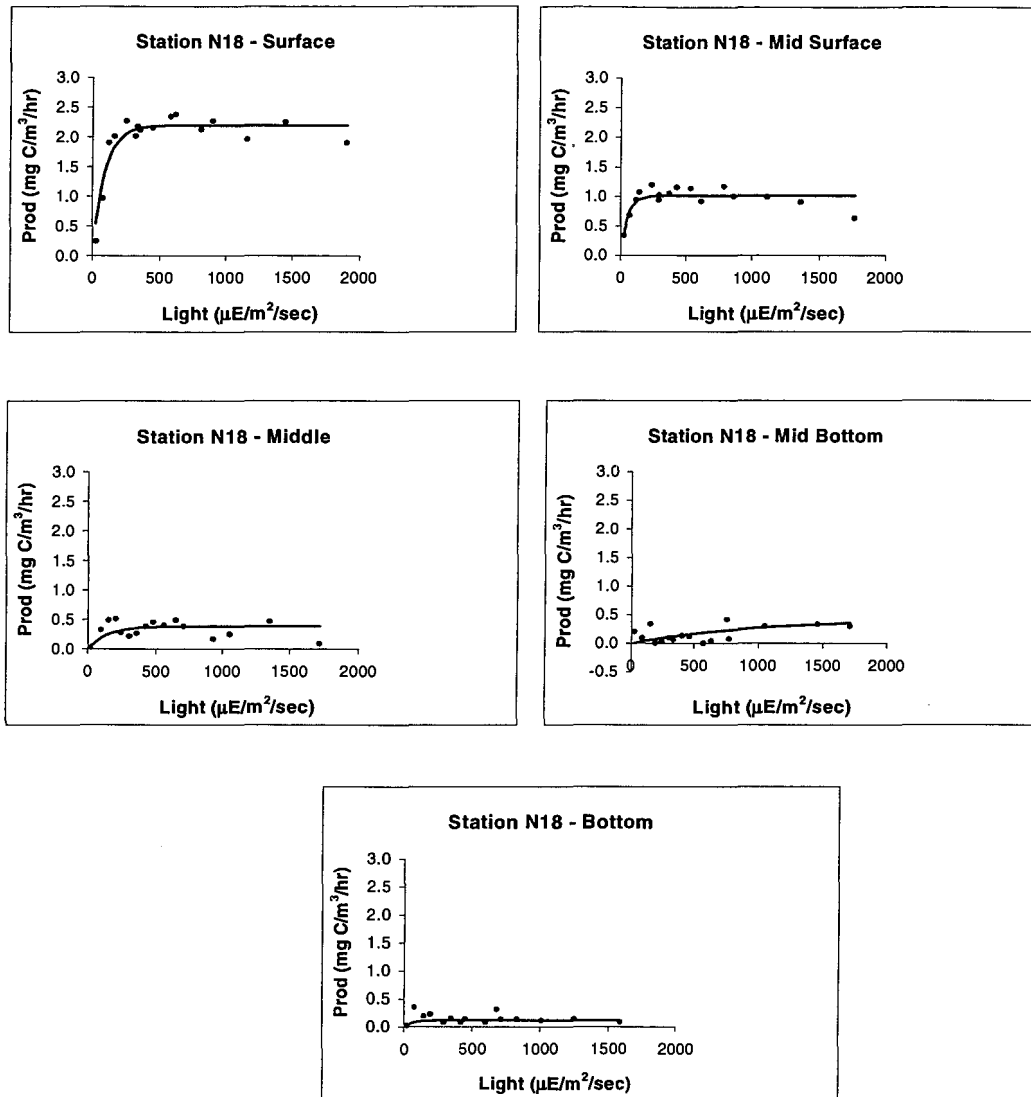


Figure E-20. Photosynthesis-Irradiance (P-I) Curves for Station N18 from Nearfield Survey
WN988 (Jul 98)

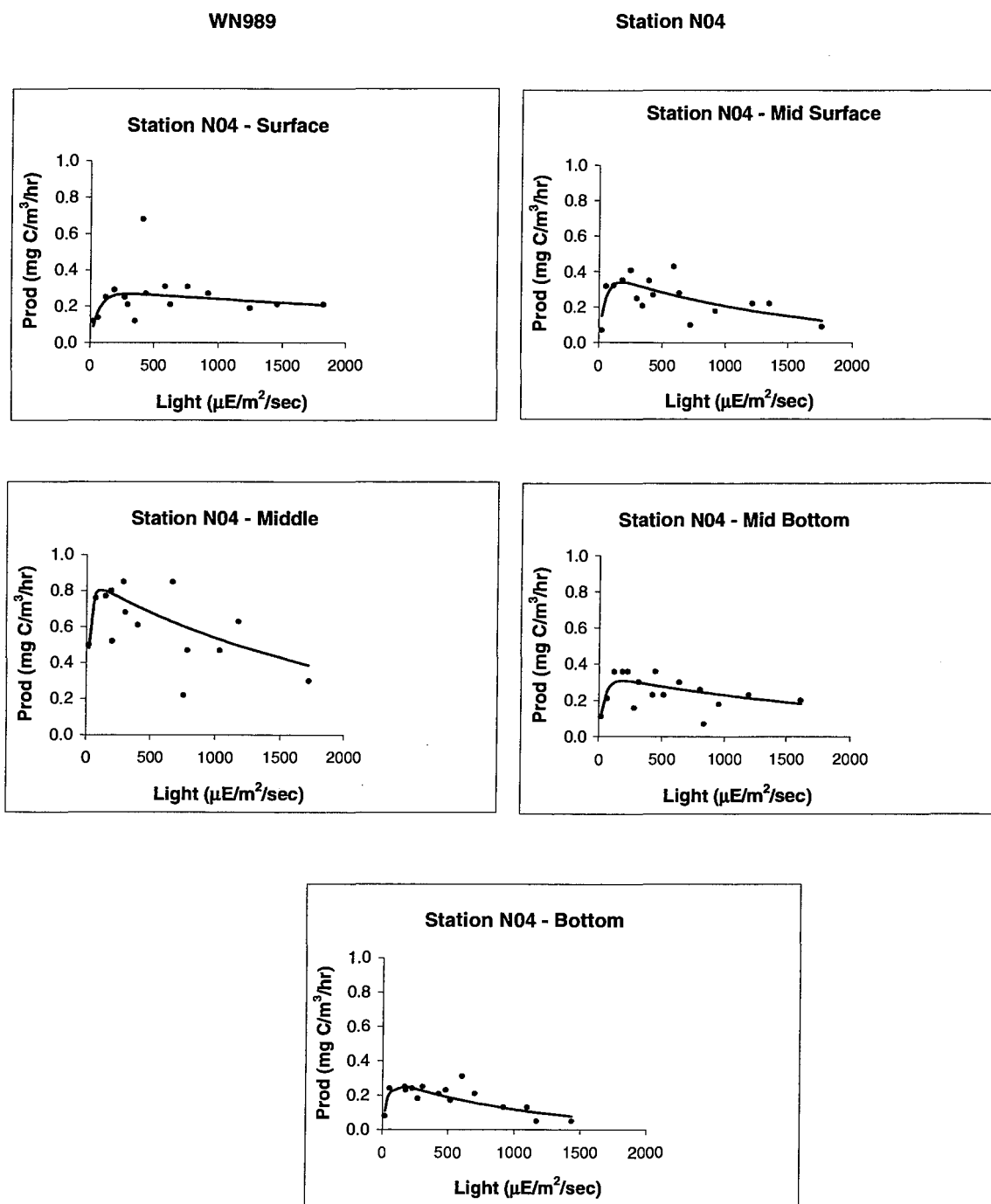


Figure E-21. Photosynthesis-Irradiance (P-I) Curves for Station N04 from Nearfield Survey
WN989 (Jul 98)

WN989

Station N18

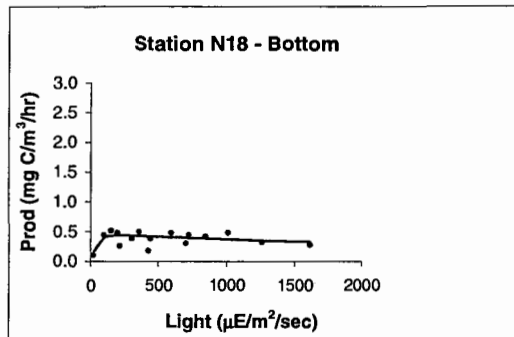
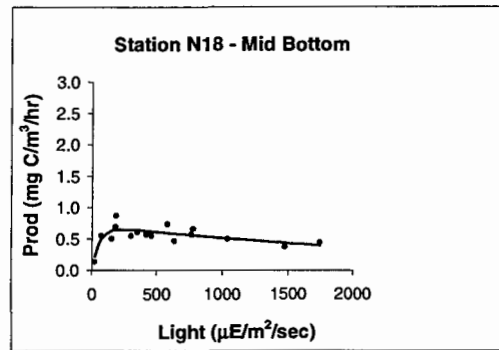
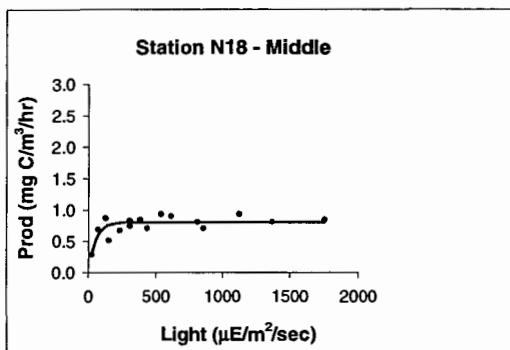
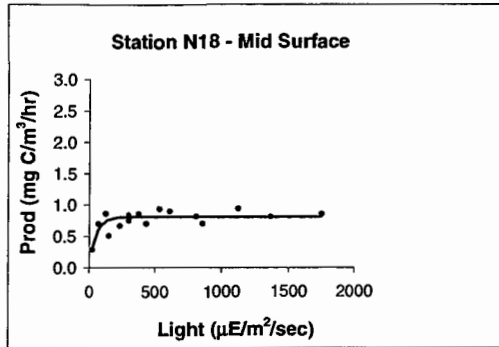
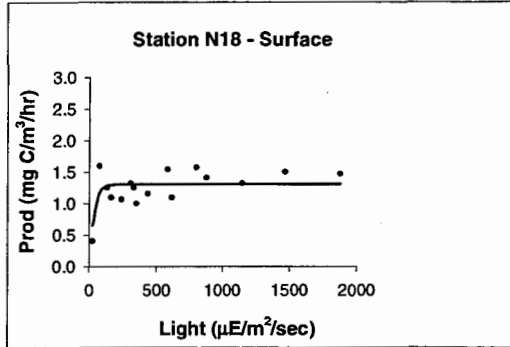


Figure E-22. Photosynthesis-Irradiance (P-I) Curves for Station N18 from Nearfield Survey
WN989 (Jul 98)

APPENDIX F

**ABUNDANCE OF PREVALENT PHYTOPLANKTON SPECIES
IN WHOLE WATER SURFACE AND CHLOROPHYLL-A MAXIMUM SAMPLES**

Life Stage Definitions:

A = ADULT (not sexed)

B = CYST

C = COPEPODITES

F = FEMALE

G = FRAGMENT

J = Juvenile (unspecified stage)

K = Colonial species, not counted individually

L = LARVAE

M = MALE

N = NAUPLII

O = OVA

P = POST LARVAE

R = REGENERATING

S = SPORES

T = TROCHOPHORE

U = UNIDENTIFIED (lumped) not able to identify to stage or gender

V = VELIGER

X = Complex

Y = CYPRIDS

Z = ZOEAE

null = no value, used as a place holder for a key field

Group Definitions:

B = BARNACLE

CD = CENTRIC DIATOM

CH = CHLOROPHYTES

CR = CHRYSOPHYTES

C = COPEPOD

CY = CRYPTOPHYTES

CN = CYANOPHYTES

DF = DINOFLAGELLATES

EU = EUGLENOPHYTES

H = HAPTOPHYTES

MF = MICROFLAGELLATES

OZ = OTHER (ZOO)

PD = PENNATE DIATOM

PR = PRASINOPHYTES

Abundance of Prevalent Species (>5% Total Count) in Surface Sample
Whole Water Phytoplankton, Survey WF981

			F01	F02	F06	F13	F23	F24	F25
CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	CD	%			5.979	7.569			
		E6CELLS/L			0.011	0.025			
CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	CY	%		7.134	16.228	19.496		11.561	19.190
		E6CELLS/L		0.026	0.029	0.064		0.045	0.068
SKELETONEMA COSTATUM GREV+CLEVE	CD	%	57.024						
		E6CELLS/L	0.506						
UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	MF	%	35.301	83.572	51.247	56.423	82.170	68.979	64.394
		E6CELLS/L	0.313	0.309	0.091	0.186	0.257	0.270	0.228
UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	MF	%			9.111	5.505	6.988		
		E6CELLS/L			0.016	0.018	0.022		

Columns are Species, Group, and Units.

1 Wwsursum.bqy

Abundance of Prevalent Species (>5% Total Count) in Surface Sample
Whole Water Phytoplankton, Survey WF981

			F27	F30	F31	N04	N16	N18
CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	CD	%		9.283				5.601
		E6CELLS/L		0.038				0.013
CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	CY	%	6.456	13.436	18.122	19.957	10.694	24.694
		E6CELLS/L	0.024	0.055	0.083	0.070	0.062	0.059
SKELETONEMA COSTATUM GREV+CLEVE	CD	%			5.568			
		E6CELLS/L			0.025			
UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	MF	%	78.548	59.608	57.902	62.233	71.466	46.588
		E6CELLS/L	0.294	0.246	0.264	0.219	0.414	0.111
UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	MF	%		5.863				7.892
		E6CELLS/L		0.024				0.019

Columns are Species, Group, and Units.

2 Wwsursum.bqy

Abundance of Prevalent Species (>5% Total Count) in Surface Sample
Whole Water Phytoplankton, Survey WF982

			F01	F02	F06	F13	F23	F24	F25
CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	CD	%							
		E6CELLS/L							
CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	CY	%	11.868	10.926	8.895	14.886	12.870	18.379	12.657
		E6CELLS/L	0.125	0.090	0.028	0.064	0.085	0.070	0.070
SKELETONEMA COSTATUM GREV+CLEVE	CD	%	18.077	28.179					
		E6CELLS/L	0.190	0.232					
UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	MF	%	53.560	41.885	78.257	72.498	77.697	67.923	73.132
		E6CELLS/L	0.564	0.344	0.251	0.312	0.513	0.257	0.403

Columns are Species, Group, and Units.

1 Wwsursum.bqy

Abundance of Prevalent Species (>5% Total Count) in Surface Sample
Whole Water Phytoplankton, Survey WF982

			F27	F30	F31	N04	N16	N18
CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	CD	%	5.598			5.293		11.527
		E6CELLS/L	0.019			0.024		0.042
CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	CY	%	10.395	11.808	12.209	13.399	18.124	10.134
		E6CELLS/L	0.036	0.095	0.063	0.061	0.059	0.037
SKELETONEMA COSTATUM GREV+CLEVE	CD	%						
		E6CELLS/L						
UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	MF	%	75.566	77.365	70.188	73.666	69.010	70.716
		E6CELLS/L	0.260	0.620	0.361	0.337	0.225	0.256

Columns are Species, Group, and Units.

2 Wwsursum.bqy

Abundance of Prevalent Species (>5% Total Count) in Surface Sample
Whole Water Phytoplankton, Survey WN983

			N04	N18
CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	CY	%	17.594	13.052
		E6CELLS/L	0.107	0.080
UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	MF	%	71.204	78.147
		E6CELLS/L	0.432	0.480

Columns are Species, Group, and Units.

1 Wwsursum.bqy

Abundance of Prevalent Species (>5% Total Count) in Surface Sample
Whole Water Phytoplankton, Survey WF984

			F01	F02	F06	F13	F23	F24	F25
CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	CD	%			6.442		6.144	6.060	
		E6CELLS/L			0.019		0.053	0.042	
CHAETOCEROS COMPRESSUS	CD	%	37.722						
		E6CELLS/L	0.243						
CHAETOCEROS SP. GROUP 1 DIAM <10 MICRONS	CD	%	8.101	5.599					
		E6CELLS/L	0.052	0.031					
CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	CY	%		6.603	13.600	9.685	15.542	14.140	12.861
		E6CELLS/L		0.037	0.041	0.050	0.135	0.099	0.125
GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	DF	%			5.905				
		E6CELLS/L			0.018				
SKELETONEMA COSTATUM GREV+CLEVE	CD	%	17.487			12.350	7.471	6.960	7.337
		E6CELLS/L	0.113			0.064	0.065	0.049	0.071
UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	MF	%	16.878	57.995	63.707	62.196	62.168	59.511	63.035
		E6CELLS/L	0.109	0.323	0.190	0.323	0.540	0.416	0.611
UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	MF	%		10.336					
		E6CELLS/L		0.058					

Columns are Species, Group, and Units.

1 Wwsursum.bqy

Abundance of Prevalent Species (>5% Total Count) in Surface Sample
Whole Water Phytoplankton, Survey WF984

			F27	F30	F31	N04	N16	N18
CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	CD	%	6.268	6.229			5.399	
		E6CELLS/L	0.045	0.055			0.015	
CHAETOCEROS COMPRESSUS	CD	%						
		E6CELLS/L						
CHAETOCEROS SP. GROUP 1 DIAM <10 MICRONS	CD	%						
		E6CELLS/L						
CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	CY	%	10.399	17.404	13.342	13.087	12.957	15.694
		E6CELLS/L	0.075	0.155	0.128	0.062	0.037	0.050
GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	DF	%						
		E6CELLS/L						
SKELETONEMA COSTATUM GREV+CLEVE	CD	%		6.230	6.805			
		E6CELLS/L		0.055	0.065			
UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	MF	%	67.948	60.821	67.544	73.993	71.621	69.053
		E6CELLS/L	0.490	0.541	0.648	0.353	0.204	0.221
UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	MF	%						
		E6CELLS/L						

Columns are Species, Group, and Units.

2 Wwsursum.bqy

Abundance of Prevalent Species (>5% Total Count) in Surface Sample
Whole Water Phytoplankton, Survey WN985

			N04	N18
CHAETOCEROS SOCIALIS	CD	%	6.860	9.188
		E6CELLS/L	0.052	0.083
CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	CY	%	10.877	17.611
		E6CELLS/L	0.082	0.160
SKELETONEMA COSTATUM GREV+CLEVE	CD	%	13.362	
		E6CELLS/L	0.101	
UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	MF	%	55.242	56.428
		E6CELLS/L	0.416	0.513

Columns are Species, Group, and Units.

1 Wwsursum.bqy

Abundance of Prevalent Species (>5% Total Count) in Surface Sample
Whole Water Phytoplankton, Survey WN986

			N04	N18
CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	CD	%	23.116	16.548
		E6CELLS/L	0.149	0.119
CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	CY	%	5.717	5.373
		E6CELLS/L	0.037	0.039
SKELETONEMA COSTATUM GREV+CLEVE	CD	%	9.083	7.939
		E6CELLS/L	0.059	0.057
UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	MF	%	57.168	60.818
		E6CELLS/L	0.369	0.436

Columns are Species, Group, and Units.

1 Wwsursum.bqy

Abundance of Prevalent Species (>5% Total Count) in Surface Sample
Whole Water Phytoplankton, Survey WF987

			F01	F02	F06	F13	F23	F24	F25
CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	CD	%				6.442			
		E6CELLS/L				0.149			
CHAETOCEROS COMPRESSUS	CD	%	6.542		12.639				
		E6CELLS/L	0.083		0.243				
CHAETOCEROS SOCIALIS	CD	%	39.760		13.738	13.447			
		E6CELLS/L	0.505		0.264	0.310			
CHAETOCEROS SP. GROUP 2 DIAM 10-30 MICRONS	CD	%	8.465						
		E6CELLS/L	0.108						
CHAETOCEROS SPP.(<10UM)	CD	%		10.133	36.733	28.290	9.511	20.801	
		E6CELLS/L		0.078	0.706	0.653	0.355	0.796	
CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	CY	%				5.042			
		E6CELLS/L				0.116			
GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	DF	%							
		E6CELLS/L							
LEPTOCYLINDRUS MINIMUS	CD	%		6.334					
		E6CELLS/L		0.049					
PROBOSCIA ALATA	CD	%		6.334					
		E6CELLS/L		0.049					
PSEUDONITZSCHIA DELICATISSIMA	PD	%					7.504		5.092
		E6CELLS/L					0.280		0.251
SKELETONEMA COSTATUM GREV+CLEVE	CD	%					47.207	52.941	63.908
		E6CELLS/L					1.764	2.025	3.152
UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	MF	%	25.908	49.822	20.093	32.072	15.707	13.896	9.994
		E6CELLS/L	0.329	0.385	0.386	0.740	0.587	0.531	0.493

Columns are Species, Group, and Units.

1 Wwsursum.bqy

Abundance of Prevalent Species (>5% Total Count) in Surface Sample
Whole Water Phytoplankton, Survey WF987

			F27	F30	F31	N04	N16	N18
CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	CD	%						
		E6CELLS/L						
CHAETOCEROS COMPRESSUS	CD	%	8.553					
		E6CELLS/L	0.017					
CHAETOCEROS SOCIALIS	CD	%		24.542	13.282			
		E6CELLS/L		0.590	0.235			
CHAETOCEROS SP. GROUP 2 DIAM 10-30 MICRONS	CD	%	7.196					
		E6CELLS/L	0.014					
CHAETOCEROS SPP.(<10UM)	CD	%	6.089		24.180		10.052	
		E6CELLS/L	0.012		0.429		0.058	
CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	CY	%		22.644	17.880			6.144
		E6CELLS/L		0.544	0.317			0.020
GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	DF	%					5.026	7.680
		E6CELLS/L					0.029	0.024
LEPTOCYLINDRUS MINIMUS	CD	%						
		E6CELLS/L						
PROBOSCIA ALATA	CD	%						
		E6CELLS/L						
PSEUDONITZSCHIA DELICATISSIMA	PD	%				17.829	8.407	
		E6CELLS/L				0.323	0.049	
SKELETONEMA COSTATUM GREV+CLEVE	CD	%		13.559	6.599	43.424	38.127	
		E6CELLS/L		0.326	0.117	0.787	0.221	
UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	MF	%	49.819	21.017	26.734	14.651	23.743	48.129
		E6CELLS/L	0.098	0.505	0.474	0.266	0.138	0.153

Columns are Species, Group, and Units.

2 Wwsursum.bqy

Abundance of Prevalent Species (>5% Total Count) in Surface Sample
Whole Water Phytoplankton, Survey WN988

			N04	N18
LEPTOCYLINDRUS MINIMUS	CD	%	13.365	14.673
		E6CELLS/L	0.442	0.482
RHIZOLENIA FRAGILISSIMA	CD	%	7.344	
		E6CELLS/L	0.243	
SKELETONEMA COSTATUM GREV+CLEVE	CD	%	5.702	5.210
		E6CELLS/L	0.189	0.171
UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	MF	%	62.218	66.052
		E6CELLS/L	2.059	2.170

Columns are Species, Group, and Units.
1 Wwsursum.bqy

Abundance of Prevalent Species (>5% Total Count) in Surface Sample
Whole Water Phytoplankton, Survey WN989

			N04	N18
LEPTOCYLINDRUS DANICUS	CD	%	21.339	
		E6CELLS/L	0.525	
LEPTOCYLINDRUS MINIMUS	CD	%	5.335	29.678
		E6CELLS/L	0.131	0.644
UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	MF	%	64.978	59.015
		E6CELLS/L	1.600	1.280

Columns are Species, Group, and Units.
1 Wwsursum.bqy

Abundance of Prevalent Species (>5% Total Count) in Chlorophyll a Maximum Sample
Whole Water Phytoplankton, Survey WF981

			F01	F02	F06	F13	F23
CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	CD	%			6.931		
		E6CELLS/L			0.014		
CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	CY	%		11.665	16.832	9.627	
		E6CELLS/L		0.037	0.034	0.065	
SKELETONEMA COSTATUM GREV+CLEVE	CD	%	55.829				
		E6CELLS/L	0.435				
UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	MF	%	37.422	74.319	58.169	78.359	81.397
		E6CELLS/L	0.292	0.239	0.118	0.528	0.296
UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	MF	%			5.446		
		E6CELLS/L			0.011		

Columns are Species, Groups, and Units.

1 Wwmaxsum.bqy

Abundance of Prevalent Species (>5% Total Count) in Chlorophyll a Maximum Sample
Whole Water Phytoplankton, Survey WF981

			F24	F25	F27	F30	F31
CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	CD	%					5.867
		E6CELLS/L					0.038
CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	CY	%		5.818		21.501	18.878
		E6CELLS/L		0.028		0.100	0.123
SKELETONEMA COSTATUM GREV+CLEVE	CD	%					
		E6CELLS/L					
UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	MF	%	80.306	79.378	84.548	54.078	62.756
		E6CELLS/L	0.370	0.384	0.146	0.251	0.409
UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	MF	%				5.864	
		E6CELLS/L				0.027	

Columns are Species, Groups, and Units.

2 Wwmaxsum.bqy

Abundance of Prevalent Species (>5% Total Count) in Chlorophyll a Maximum Sample
Whole Water Phytoplankton, Survey WF981

			N04	N16	N18
CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	CD	%	5.577		
		E6CELLS/L	0.013		
CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	CY	%	22.307	16.015	25.788
		E6CELLS/L	0.053	0.052	0.014
SKELETONEMA COSTATUM GREV+CLEVE	CD	%			
		E6CELLS/L			
UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	MF	%	58.556	70.765	57.914
		E6CELLS/L	0.139	0.229	0.032
UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	MF	%	5.323		
		E6CELLS/L	0.013		

Columns are Species, Groups, and Units.

3 Wwmaxsum.bqy

Abundance of Prevalent Species (>5% Total Count) in Chlorophyll a Maximum Sample
Whole Water Phytoplankton, Survey WF982

			F01	F02	F06	F13	F23
CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	CD	%					
		E6CELLS/L					
CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	CY	%	10.904	5.814	16.038	17.752	15.541
		E6CELLS/L	0.095	0.074	0.060	0.065	0.064
GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	DF	%					
		E6CELLS/L					
SKELETONEMA COSTATUM GREV+CLEVE	CD	%	18.470	44.245			
		E6CELLS/L	0.160	0.564			
THALASSIOSIRA ROTULA	CD	%	5.153				
		E6CELLS/L	0.045				
UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	MF	%	49.647	36.784	74.707	69.416	67.605
		E6CELLS/L	0.431	0.469	0.278	0.254	0.279

Columns are Species, Groups, and Units.

1 Wwmaxsum.bqy

Abundance of Prevalent Species (>5% Total Count) in Chlorophyll a Maximum Sample
Whole Water Phytoplankton, Survey WF982

			F24	F25	F27	F30	F31
CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	CD	%			6.024	6.010	
		E6CELLS/L			0.018	0.044	
CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	CY	%	14.473	21.441	15.663	16.742	29.321
		E6CELLS/L	0.056	0.102	0.047	0.123	0.136
GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	DF	%					
		E6CELLS/L					
SKELETONEMA COSTATUM GREV+CLEVE	CD	%					
		E6CELLS/L					
THALASSIOSIRA ROTULA	CD	%					
		E6CELLS/L					
UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	MF	%	73.822	63.685	74.298	69.974	50.776
		E6CELLS/L	0.284	0.302	0.224	0.513	0.236

Columns are Species, Groups, and Units.
2 Wwmaxsum.bqy

Abundance of Prevalent Species (>5% Total Count) in Chlorophyll a Maximum Sample
Whole Water Phytoplankton, Survey WF982

			N04	N16	N18
CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	CD	%			
		E6CELLS/L			
CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	CY	%	5.864	18.119	10.151
		E6CELLS/L	0.012	0.063	0.030
GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	DF	%	8.253		6.455
		E6CELLS/L	0.017		0.019
SKELETONEMA COSTATUM GREV+CLEVE	CD	%			
		E6CELLS/L			
THALASSIOSIRA ROTULA	CD	%			
		E6CELLS/L			
UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	MF	%	78.404	72.936	78.501
		E6CELLS/L	0.165	0.255	0.233

Columns are Species, Groups, and Units.

3 Wwmaxsum.bqy

Abundance of Prevalent Species (>5% Total Count) in Chlorophyll a Maximum Sample
Whole Water Phytoplankton, Survey WN983

			N04	N18
CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	CY	%	17.972	
		E6CELLS/L	0.090	
UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	MF	%	67.181	83.812
		E6CELLS/L	0.335	0.340

Columns are Species, Groups, and Units.

1 Wwmaxsum.bqy

Abundance of Prevalent Species (>5% Total Count) in Chlorophyll a Maximum Sample
Whole Water Phytoplankton, Survey WF984

			F01	F02	F06	F13	F23	F24	F25
CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	CD	%		5.082		5.405		5.475	
		E6CELLS/L		0.030		0.024		0.034	
CHAETOCEROS COMPRESSUS	CD	%	11.176						
		E6CELLS/L	0.280						
CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	CY	%	5.978	13.975	5.854	14.775	16.068	13.002	15.792
		E6CELLS/L	0.150	0.082	0.014	0.067	0.136	0.080	0.133
GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	DF	%			6.080				
		E6CELLS/L			0.014				
SKELETONEMA COSTATUM GREV+CLEVE	CD	%	40.286	5.082			6.830	6.816	11.009
		E6CELLS/L	1.011	0.030			0.058	0.042	0.093
UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	MF	%	28.590	61.887	76.559	65.945	64.649	62.103	58.893
		E6CELLS/L	0.717	0.364	0.178	0.298	0.547	0.384	0.498

Columns are Species, Groups, and Units.

1 Wwmaxsum.bqy

Abundance of Prevalent Species (>5% Total Count) in Chlorophyll a Maximum Sample
Whole Water Phytoplankton, Survey WF984

			F27	F30	F31	N04	N16	N18
CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	CD	%	5.992	5.820		5.696		
		E6CELLS/L	0.032	0.062		0.020		
CHAETOCEROS COMPRESSUS	CD	%						
		E6CELLS/L						
CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	CY	%	12.190	10.931	14.440	13.707	17.274	15.013
		E6CELLS/L	0.064	0.116	0.090	0.048	0.048	0.059
GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	DF	%				7.833	6.955	6.898
		E6CELLS/L				0.028	0.019	0.027
SKELETONEMA COSTATUM GREV+CLEVE	CD	%		10.081	10.701			
		E6CELLS/L		0.107	0.067			
UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	MF	%	67.562	64.025	62.107	67.646	65.507	67.965
		E6CELLS/L	0.355	0.681	0.388	0.239	0.183	0.268

Columns are Species, Groups, and Units.

2 Wwmaxsum.bqy

Abundance of Prevalent Species (>5% Total Count) in Chlorophyll a Maximum Sample
Whole Water Phytoplankton, Survey WN985

			N04	N18
CHAETOCEROS SOCIALIS	CD	%	7.166	12.442
		E6CELLS/L	0.159	0.074
CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	CY	%		13.785
		E6CELLS/L		0.082
SKELETONEMA COSTATUM GREV+CLEVE	CD	%		5.718
		E6CELLS/L		0.034
UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	MF	%	77.334	55.671
		E6CELLS/L	1.717	0.330

Columns are Species, Groups, and Units.

1 Wwmaxsum.bqy

Abundance of Prevalent Species (>5% Total Count) in Chlorophyll a Maximum Sample
Whole Water Phytoplankton, Survey WN986

			N04	N18
CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	CD	%	14.886	20.694
		E6CELLS/L	0.086	0.255
GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	DF	%		7.409
		E6CELLS/L		0.091
THALASSIOSIRA SP. GROUP 1 DIAM <20 MICRONS	CD	%		5.548
		E6CELLS/L		0.068
UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	MF	%	69.286	49.818
		E6CELLS/L	0.403	0.613

Columns are Species, Groups, and Units.
1 Wwmaxsum.bqy

Abundance of Prevalent Species (>5% Total Count) in Chlorophyll a Maximum Sample
Whole Water Phytoplankton, Survey WF987

			F01	F02	F06	F13	F23	F24	F25
CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	CD	%		7.854					
		E6CELLS/L		0.036					
CERATAULINA PELAGICA	CD	%						6.505	
		E6CELLS/L						0.057	
CHAETOCEROS COMPRESSUS	CD	%			5.809	6.141		9.302	9.114
		E6CELLS/L			0.165	0.088		0.082	0.342
CHAETOCEROS SOCIALIS	CD	%	45.596		41.504	16.145	27.293		8.439
		E6CELLS/L	0.685		1.178	0.231	0.590		0.317
CHAETOCEROS SPP.(<10UM)	CD	%	10.227	9.282	33.045	46.389	17.021	37.202	13.586
		E6CELLS/L	0.154	0.042	0.938	0.665	0.368	0.326	0.510
CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	CY	%							6.667
		E6CELLS/L							0.250
GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	DF	%							
		E6CELLS/L							
PENNATE DIATOM SP. GROUP 2 10-30 MICRONS LENGTH	PD	%							
		E6CELLS/L							
PSEUDONITZSCHIA DELICATISSIMA	PD	%					11.299		
		E6CELLS/L					0.244		
SKELETONEMA COSTATUM GREV+CLEVE	CD	%					15.407	7.782	28.354
		E6CELLS/L					0.333	0.068	1.065
UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	MF	%	24.929	66.404	11.165	21.375	11.592	21.701	17.468
		E6CELLS/L	0.374	0.303	0.317	0.306	0.250	0.190	0.656

Columns are Species, Groups, and Units.

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Abundance of Prevalent Species (>5% Total Count) in Chlorophyll a Maximum Sample
Whole Water Phytoplankton, Survey WF987

			F27	F30	F31	N04	N16	N18
CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	CD	%						
		E6CELLS/L						
CERATAULINA PELAGICA	CD	%						
		E6CELLS/L						
CHAETOCEROS COMPRESSUS	CD	%						
		E6CELLS/L						
CHAETOCEROS SOCIALIS	CD	%		28.549	14.552		7.869	
		E6CELLS/L		0.821	0.239		0.160	
CHAETOCEROS SPP.(<10UM)	CD	%	12.713	9.551	35.791		61.915	6.622
		E6CELLS/L	0.020	0.275	0.588		1.259	0.010
CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	CY	%		14.484	9.243	9.071		
		E6CELLS/L		0.417	0.152	0.041		
GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	DF	%						7.726
		E6CELLS/L						0.011
PENNATE DIATOM SP. GROUP 2 10-30 MICRONS LENGTH	PD	%					5.345	
		E6CELLS/L					0.109	
PSEUDONITZSCHIA DELICATISSIMA	PD	%						
		E6CELLS/L						
SKELETONEMA COSTATUM GREV+CLEVE	CD	%	5.220	6.717		5.516		
		E6CELLS/L	0.008	0.193		0.025		
UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	MF	%	54.198	21.517	26.745	51.160	12.918	48.012
		E6CELLS/L	0.086	0.619	0.439	0.230	0.263	0.071

Columns are Species, Groups, and Units.
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Abundance of Prevalent Species (>5% Total Count) in Chlorophyll a Maximum Sample
Whole Water Phytoplankton, Survey WN988

			N04	N18
LEPTOCYLINDRUS DANICUS	CD	%		7.066
		E6CELLS/L		0.119
LEPTOCYLINDRUS MINIMUS	CD	%		10.733
		E6CELLS/L		0.181
PROBOSCIA ALATA	CD	%	6.001	
		E6CELLS/L	0.069	
SKELETONEMA COSTATUM GREV+CLEVE	CD	%		14.490
		E6CELLS/L		0.245
UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	MF	%	85.357	52.310
		E6CELLS/L	0.975	0.883

Columns are Species, Groups, and Units.

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Abundance of Prevalent Species (>5% Total Count) in Chlorophyll a Maximum Sample
Whole Water Phytoplankton, Survey WN989

			N04	N18
GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	DF	%	23.927	6.742
		E6CELLS/L	0.384	0.093
UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	MF	%	68.768	78.348
		E6CELLS/L	1.104	1.080

Columns are Species, Groups, and Units.

1 Wwmaxsum.bqy

APPENDIX G

**ABUNDANCE OF PREVALENT PHYTOPLANKTON SPECIES
IN SCREENED WATER SURFACE AND CHLOROPHYLL-A MAXIMUM SAMPLES**

Abundance of Prevalent Species (>5% Total Count) in Surface Sample
Screened Phytoplankton, Survey WF981

			F01	F02	F06	F13	F23	F24	F25	F27	F30	F31
ATHECATE DINOFLAGELLATE	DF	%					16.7					
		CELLS/L					19.8					
CERATIUM FURCA	DF	%						15.0				
		CELLS/L						12.8				
CERATIUM FUSUS	DF	%			10.0			5.0				
		CELLS/L			20.6			4.3				
CERATIUM LONGIPES	DF	%								6.5		
		CELLS/L								5.0		
CERATIUM TRIPOS	DF	%	8.3	5.9				10.0		25.8		
		CELLS/L	12.5	4.9				8.5		20.0		
DICTYOCHA FIBULA	CR	%					5.6			9.7		
		CELLS/L					6.6			7.5		
DINOPHYSIS ACUMINATA	DF	%										
		CELLS/L										
DISTEPHANUS SPECULUM	CR	%	29.2	94.1	78.0	87.5	77.8	60.0	100.0	54.8	100.0	100.0
		CELLS/L	43.8	78.0	160.9	129.5	92.4	51.0	45.0	42.5	21.5	40.5
MESODINIUM RUBRUM	DF	%	41.7					5.0				
		CELLS/L	62.5					4.3				
PROTOPERIDINIUM DEPRESSUM	DF	%						5.0				
		CELLS/L						4.3				
THECATE DINOFLAGELLATE SPP.	DF	%				6.3						
		CELLS/L				9.3						

Columns are Species, Group and Units.

1 Swsursum.bqy

Abundance of Prevalent Species (>5% Total Count) in Surface Sample
Screened Phytoplankton, Survey WF981

			N04	N16	N18
ATHECATE DINOFLAGELLATE	DF	%			
		CELLS/L			
CERATIUM FURCA	DF	%			
		CELLS/L			
CERATIUM FUSUS	DF	%			
		CELLS/L			
CERATIUM LONGIPES	DF	%		6.7	
		CELLS/L		8.0	
CERATIUM TRIPOS	DF	%	8.8	20.0	11.4
		CELLS/L	17.3	24.0	28.1
DICTYOCHA FIBULA	CR	%			
		CELLS/L			
DINOPHYSIS ACUMINATA	DF	%	5.9		5.1
		CELLS/L	11.5		12.5
DISTEPHANUS SPECULUM	CR	%	73.5	53.3	65.8
		CELLS/L	143.8	64.0	162.5
MESODINIUM RUBRUM	DF	%	11.8	10.0	10.1
		CELLS/L	23.0	12.0	25.0
PROTOPERIDINIUM DEPRESSUM	DF	%			
		CELLS/L			
THECATE DINOFLAGELLATE SPP.	DF	%			
		CELLS/L			

Columns are Species, Group and Units.
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Abundance of Prevalent Species (>5% Total Count) in Surface Sample
Screened Phytoplankton, Survey WF982

			F01	F02	F06	F13	F23	F24	F25	F27	F30	F31
AMYLAX TRIACANTHA	DF	%		6.6								
		CELLS/L		8.0								
ATHECATE DINOFLAGELLATE	DF	%		14.8							9.1	
		CELLS/L		18.0							3.3	
CERATIUM FUSUS	DF	%			5.1		11.1					
		CELLS/L			5.0		6.0					
CERATIUM LONGIPES	DF	%	21.3		28.3	12.7		28.3	49.2	39.6		
		CELLS/L	25.0		27.5	16.4		37.4	65.3	47.5		
CERATIUM TRIPOS	DF	%	23.4	6.6	15.4	16.4		17.4	28.8	27.1		25.0
		CELLS/L	27.5	8.0	15.0	21.1		23.0	38.3	32.5		13.3
DICTYOCHA SPECULUM	CR	%									27.3	
		CELLS/L									9.7	
DINOPHYSIS NORVEGICA	DF	%				5.5						15.0
		CELLS/L				7.0						8.0
DISTEPHANUS SPECULUM	CR	%	19.1	41.0	30.1	21.8	77.8	34.8	15.3	29.2		25.0
		CELLS/L	22.5	50.0	29.3	28.2	41.7	46.0	20.3	35.0		13.3
GYRODINIUM SPP.	DF	%									9.1	
		CELLS/L									3.3	
MESODINIUM RUBRUM	DF	%	19.1		9.3	36.4	11.1	6.5			45.5	25.0
		CELLS/L	22.5		9.0	47.0	6.0	8.6			16.3	13.3
THECATE DINOFLAGELLATE SPP.	DF	%									9.1	
		CELLS/L									3.3	

Columns are Species, Group and Units.

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Abundance of Prevalent Species (>5% Total Count) in Surface Sample
Screened Phytoplankton, Survey WF982

			N04	N16	N18
AMYLAX TRIACANTHA	DF	%			
		CELLS/L			
ATHECATE DINOFLLAGELLATE	DF	%			
		CELLS/L			
CERATIUM FUSUS	DF	%		8.3	
		CELLS/L		11.3	
CERATIUM LONGIPES	DF	%	32.4	30.0	30.7
		CELLS/L	71.5	40.5	93.0
CERATIUM TRIPOS	DF	%	32.4	36.7	28.0
		CELLS/L	71.5	49.5	84.9
DICTYOGHA SPECULUM	CR	%			
		CELLS/L			
DINOPHYSIS NORVEGICA	DF	%			
		CELLS/L			
DISTEPHANUS SPECULUM	CR	%	10.3	23.3	30.7
		CELLS/L	22.8	31.5	93.0
GYRODINIUM SPP.	DF	%			
		CELLS/L			
MESODINIUM RUBRUM	DF	%	16.2		5.3
		CELLS/L	35.8		16.2
THECATE DINOFLLAGELLATE SPP.	DF	%			
		CELLS/L			

Columns are Species, Group and Units.
2 Swsursum.bqy

Abundance of Prevalent Species (>5% Total Count) in Surface Sample
Screened Phytoplankton, Survey WN983

			N04	N18
CERATIUM LONGIPES	DF	%	70.0	65.1
		CELLS/L	406.4	514.8
CERATIUM TRIPOS	DF	%	14.1	23.0
		CELLS/L	81.7	181.5
DISTEPHANUS SPECULUM	CR	%	10.7	
		CELLS/L	62.4	

Columns are Species, Group and Units.

1 Swsursum.bqy

Abundance of Prevalent Species (>5% Total Count) in Surface Sample
Screened Phytoplankton, Survey WF984

			F01	F02	F06	F13	F23	F24	F25
ATHECATE DINOFLAGELLATE	DF	%							
		CELLS/L							
CERATIUM FUSUS	DF	%							
		CELLS/L							
CERATIUM LONGIPES	DF	%	48.9	53.3	66.8	69.9	57.3	72.9	66.2
		CELLS/L	114.4	400.0	798.8	331.5	117.5	1287.1	215.0
CERATIUM SPP.	DF	%	20.0	15.3		5.9	7.3	7.6	10.0
		CELLS/L	46.8	115.0		28.1	15.0	134.6	32.5
CERATIUM TRIPOS	DF	%		6.0	20.3	9.7	7.3	9.3	6.5
		CELLS/L		45.0	242.5	45.9	15.0	164.2	21.3
DISTEPHANUS SPECULUM	CR	%	10.0						
		CELLS/L	23.4						
MESODINIUM RUBRUM	DF	%		5.3					
		CELLS/L		40.0					
PROTOPERIDINIUM PYRIFORME	DF	%							
		CELLS/L							

Columns are Species, Group and Units.

1 Swsursum.bqy

Abundance of Prevalent Species (>5% Total Count) in Surface Sample
Screened Phytoplankton, Survey WF984

			F27	F30	F31	N04	N16	N18
ATHECATE DINOFLLAGELLATE	DF	%		10.1	12.7			
		CELLS/L		10.0	75.0			
CERATIUM FUSUS	DF	%		7.6				
		CELLS/L		7.5				
CERATIUM LONGIPES	DF	%	64.3	49.4	66.8	69.7	77.3	65.0
		CELLS/L	481.3	48.8	395.0	1025.0	1106.0	1315.0
CERATIUM SPP.	DF	%		7.6	8.5	8.5		8.3
		CELLS/L		7.5	50.0	125.0		167.5
CERATIUM TRIPOS	DF	%	18.9	5.1	5.9	9.3	15.4	10.4
		CELLS/L	141.8	5.0	35.0	137.5	220.8	210.0
DISTEPHANUS SPECULUM	CR	%	5.6			5.8		12.2
		CELLS/L	42.0			85.0		247.5
MESODINIUM RUBRUM	DF	%						
		CELLS/L						
PROTOPERIDINIUM PYRIFORME	DF	%		5.1				
		CELLS/L		5.0				

Columns are Species, Group and Units.

2 Swsursum.bqy

Abundance of Prevalent Species (>5% Total Count) in Surface Sample
Screened Phytoplankton, Survey WN985

			N04	N18
CERATIUM FURCA	DF	%	5.7	12.2
		CELLS/L	132.0	280.6
CERATIUM LONGIPES	DF	%	55.3	41.0
		CELLS/L	1269.0	945.3
CERATIUM SPP.	DF	%	8.8	7.5
		CELLS/L	201.0	172.5
CERATIUM TRIPOS	DF	%	15.4	13.9
		CELLS/L	354.0	319.7
DINOPHYSIS NORVEGICA	DF	%	6.0	13.0
		CELLS/L	138.0	299.0
PROTOPERIDINIUM SPP.	DF	%		6.2
		CELLS/L		142.6

Columns are Species, Group and Units.

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Abundance of Prevalent Species (>5% Total Count) in Surface Sample
Screened Phytoplankton, Survey WN986

			N04	N18
CERATIUM LINEATUM	DF	%	22.2	15.7
		CELLS/L	460.0	315.0
CERATIUM LONGIPES	DF	%	51.6	55.0
		CELLS/L	1070.0	1102.5
CERATIUM SPP.	DF	%	6.6	
		CELLS/L	137.5	
CERATIUM TRIPOS	DF	%	9.3	10.5
		CELLS/L	192.5	210.0
DINOPHYSIS NORVEGICA	DF	%		7.1
		CELLS/L		142.5

Columns are Species, Group and Units.

1 Swsursum.bqy

Abundance of Prevalent Species (>5% Total Count) in Surface Sample
Screened Phytoplankton, Survey WF987

			F01	F02	F06	F13	F23	F24	F25
CERATIUM FUSUS	DF	%	6.9	11.3	5.5	20.4	6.9		
		CELLS/L	72.0	35.7	64.4	124.8	816.8		
CERATIUM LINEATUM	DF	%	23.6		23.1	8.6	54.7	15.1	24.3
		CELLS/L	247.2		268.8	52.8	6451.5	694.4	1764.0
CERATIUM LONGIPES	DF	%		15.4	6.5	8.3		20.3	12.0
		CELLS/L		48.5	75.6	50.4		930.0	870.0
CERATIUM SPP.	DF	%			5.8				
		CELLS/L			67.2				
CERATIUM TRIPOS	DF	%	43.5	17.8	35.6	8.6	16.8	18.2	20.6
		CELLS/L	456.0	56.1	414.4	52.8	1981.7	837.0	1494.0
DINOPHYSIS NORVEGICA	DF	%	8.5		17.5	41.7		13.5	11.2
		CELLS/L	88.8		204.4	254.4		620.0	816.0
PROTOPERIDINIUM PALLIDUM	DF	%		8.5					
		CELLS/L		26.8					
PROTOPERIDINIUM TROCHOIDIUM	DF	%		33.2			10.1	23.8	19.6
		CELLS/L		104.6			1188.0	1091.2	1422.0

Columns are Species, Group and Units.

1 Swsursum.bqy

Abundance of Prevalent Species (>5% Total Count) in Surface Sample
Screened Phytoplankton, Survey WF987

			F27	F30	F31	N04	N16	N18
CERATIUM FUSUS	DF	%	12.8			13.7	5.2	11.8
		CELLS/L	187.2			1881.6	57.5	270.4
CERATIUM LINEATUM	DF	%		16.9	24.4	23.7	5.6	10.9
		CELLS/L		275.0	333.2	3255.0	62.5	249.6
CERATIUM LONGIPES	DF	%	8.9	5.8	7.2	17.4	28.2	19.5
		CELLS/L	130.0	95.0	98.0	2398.2	315.0	447.2
CERATIUM SPP.	DF	%						
		CELLS/L						
CERATIUM TRIPOS	DF	%	25.3	10.4	7.0	22.4	34.3	26.7
		CELLS/L	369.2	170.0	95.2	3078.6	382.5	611.0
DINOPHYSIS NORVEGICA	DF	%	30.2	36.2	40.9	17.3	9.0	26.0
		CELLS/L	442.0	590.0	560.0	2377.2	100.0	595.4
PROTOPERIDINIUM PALLIDUM	DF	%						
		CELLS/L						
PROTOPERIDINIUM TROCHOIDIUM	DF	%	14.9	13.8			10.1	
		CELLS/L	218.4	225.0			112.5	

Columns are Species, Group and Units.
2 Swsursum.bqy

Abundance of Prevalent Species (>5% Total Count) in Surface Sample
Screened Phytoplankton, Survey WN988

			N04	N18
CERATIUM FUSUS	DF	%	26.6	33.6
		CELLS/L	301.3	582.4
CERATIUM LINEATUM	DF	%	11.5	5.7
		CELLS/L	130.0	98.8
CERATIUM TRIPOS	DF	%	37.5	39.3
		CELLS/L	425.0	681.2
PROTOPERIDINIUM TROCHOIDIUM	DF	%	11.9	9.0
		CELLS/L	135.0	156.0

Columns are Species, Group and Units.

1 Swsursum.bqy

Abundance of Prevalent Species (>5% Total Count) in Surface Sample
 Screened Phytoplankton, Survey WN989

			N04	N18
CERATIUM FUSUS	DF	%	44.3	33.9
		CELLS/L	755.0	623.7
CERATIUM LINEATUM	DF	%	6.8	6.9
		CELLS/L	115.0	127.6
CERATIUM TRIPOS	DF	%	17.0	18.9
		CELLS/L	290.0	346.5
PROTOPERIDINIUM SP. GROUP 2 31-75W 41-80L	DF	%	6.6	13.1
		CELLS/L	112.5	241.0
PROTOPERIDINIUM TROCHOIDIUM	DF	%	15.9	16.8
		CELLS/L	270.0	308.7

Columns are Species, Group and Units.

Abundance of Prevalent Species (>5% Total Count) in Chlorophyll a Maximum Sample
Screened Phytoplankton, Survey WF981

			F01	F02	F06	F13	F23	F24	F25
ATHECATE DINOFLLAGELLATE	DF	%			8.2				
		CELLS/L			12.5				
CERATIUM FUSUS	DF	%		7.5					11.1
		CELLS/L		10.0					4.3
CERATIUM LONGIPES	DF	%							
		CELLS/L							
CERATIUM SPP.	DF	%							
		CELLS/L							
CERATIUM TRIPOS	DF	%			8.2				
		CELLS/L			12.5				
DICTYOCHA FIBULA	CR	%					10.8		11.1
		CELLS/L					9.3		4.3
DINOPHYSIS ACUMINATA	DF	%				5.9			
		CELLS/L				9.0			
DISTEPHANUS SPECULUM	CR	%	96.6	77.4	69.4	76.5	86.3	85.7	44.4
		CELLS/L	440.8	102.5	106.3	117.0	74.0	63.0	17.0
MESODINIUM RUBRUM	DF	%						7.1	11.1
		CELLS/L						5.3	4.3
PROROCENTRUM MICANS	DF	%							22.2
		CELLS/L							8.5
PROTOPERIDINIUM SPP.	DF	%				5.9			
		CELLS/L				9.0			

Columns are Species, Group, and Units.

1 Swmaxsum.bqy

Abundance of Prevalent Species (>5% Total Count) in Chlorophyll a Maximum Sample
Screened Phytoplankton, Survey WF981

			F27	F30	F31	N04	N16	N18
ATHECATE DINOFLAGELLATE	DF	%						
		CELLS/L						
CERATIUM FUSUS	DF	%						
		CELLS/L						
CERATIUM LONGIPES	DF	%	12.5			12.1		7.9
		CELLS/L	12.8			15.5		10.1
CERATIUM SPP.	DF	%					8.9	
		CELLS/L					15.5	
CERATIUM TRIPOS	DF	%	8.3		9.1	6.1	13.3	7.9
		CELLS/L	8.5		3.9	7.8	23.3	10.1
DICTYOCHA FIBULA	CR	%		9.1				
		CELLS/L		2.5				
DINOPHYSIS ACUMINATA	DF	%		9.1				
		CELLS/L		2.5				
DSTEPHANUS SPECULUM	CR	%	70.8	81.8	90.9	51.5	73.3	71.1
		CELLS/L	72.3	22.5	38.8	65.9	127.9	91.1
MESODINIUM RUBRUM	DF	%				18.2		
		CELLS/L				23.3		
PROROCENTRUM MICANS	DF	%						
		CELLS/L						
PROTOPERIDINIUM SPP.	DF	%						
		CELLS/L						

Columns are Species, Group, and Units.
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Abundance of Prevalent Species (>5% Total Count) in Chlorophyll a Maximum Sample
Screened Phytoplankton, Survey WF982

			F01	F02	F06	F13	F23	F24	F25
ATHECATE DINOFLAGELLATE	DF	%					11.1		8.0
		CELLS/L					3.4		5.0
CERATIUM FUSUS	DF	%	7.5		6.8			6.3	8.0
		CELLS/L	7.5		6.8			10.0	5.0
CERATIUM LINEATUM	DF	%							
		CELLS/L							
CERATIUM LONGIPES	DF	%	37.5		31.8	16.0	11.1	25.0	28.0
		CELLS/L	37.5		31.5	18.8	3.4	40.0	17.5
CERATIUM SPP.	DF	%							12.0
		CELLS/L							7.5
CERATIUM TRIPOS	DF	%	22.5	6.4	22.7	10.0		26.6	24.0
		CELLS/L	22.5	7.5	22.5	11.8		42.5	15.0
DICTYOCHA FIBULA	CR	%							8.0
		CELLS/L							5.0
DICTYOCHA SPECULUM	CR	%					33.3		
		CELLS/L					10.3		
DSTEPHANUS SPECULUM	CR	%	17.5	83.0	20.5	32.0		35.9	8.0
		CELLS/L	17.5	97.5	20.3	37.6		57.5	5.0
GYRODINIUM SPP.	DF	%							
		CELLS/L							
MESODINIUM RUBRUM	DF	%				18.0	44.4		
		CELLS/L				21.1	13.7		
PROTOPERIDINIUM DEPRESSUM	DF	%							
		CELLS/L							

Columns are Species, Group, and Units.

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Abundance of Prevalent Species (>5% Total Count) in Chlorophyll a Maximum Sample
Screened Phytoplankton, Survey WF982

			F27	F30	F31	N04	N16	N18
ATHECATE DINOFLLAGELLATE	DF	%				5.3		
		CELLS/L				10.9		
CERATIUM FUSUS	DF	%		8.7	6.3	7.0	6.5	
		CELLS/L		5.8	2.4	14.5	6.0	
CERATIUM LINEATUM	DF	%	6.8		6.3			
		CELLS/L	10.0		2.4			
CERATIUM LONGIPES	DF	%	37.3	13.0	18.8	26.3	29.0	56.7
		CELLS/L	55.0	8.6	7.0	54.4	27.0	95.0
CERATIUM SPP.	DF	%						
		CELLS/L						
CERATIUM TRIPOS	DF	%	40.7	13.0	25.0	29.8	32.3	28.4
		CELLS/L	60.0	8.6	9.4	61.6	30.0	47.5
DICTYOCHA FIBULA	CR	%						
		CELLS/L						
DICTYOCHA SPECULUM	CR	%				21.1		
		CELLS/L				43.5		
DISTEPHANUS SPECULUM	CR	%	13.6	30.4	6.3		12.9	
		CELLS/L	20.0	20.1	2.4		12.0	
GYRODINIUM SPP.	DF	%			6.3			
		CELLS/L			2.4			
MESODINIUM RUBRUM	DF	%		8.7	31.3			
		CELLS/L		5.8	11.8			
PROTOPERIDINIUM DEPRESSUM	DF	%		8.7				
		CELLS/L		5.8				

Columns are Species, Group, and Units.

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Abundance of Prevalent Species (>5% Total Count) in Chlorophyll a Maximum Sample
Screened Phytoplankton, Survey WN983

			N04	N18
CERATIUM LONGIPES	DF	%	72.0	73.1
		CELLS/L	504.4	506.3
CERATIUM TRIPOS	DF	%	17.4	18.1
		CELLS/L	122.2	125.0

Columns are Species, Group, and Units.

Abundance of Prevalent Species (>5% Total Count) in Chlorophyll a Maximum Sample
Screened Phytoplankton, Survey WF984

			F01	F02	F06	F13	F23	F24	F25
ATHECATE DINOFLAGELLATE	DF	%							
		CELLS/L							
CERATIUM FUSUS	DF	%						5.1	
		CELLS/L						72.5	
CERATIUM LONGIPES	DF	%	46.7	53.6	62.0	66.5	67.1	72.8	66.7
		CELLS/L	68.6	290.0	640.9	308.6	145.0	1038.2	210.0
CERATIUM SPP.	DF	%	6.7	7.9		8.8		7.7	8.3
		CELLS/L	9.8	42.5		40.8		110.2	26.3
CERATIUM TRIPOS	DF	%	11.4	12.9	21.0	9.9	6.9		
		CELLS/L	16.8	70.0	217.5	45.9	15.0		
DINOPHYSIS NORVEGICA	DF	%	5.7						
		CELLS/L	8.4						
DISTEPHANUS SPECULUM	CR	%			8.4		5.8		9.5
		CELLS/L			87.0		12.5		30.0
GYRODINIUM SP. GROUP 3 41-70UM W 51-70UM L	DF	%	5.7						
		CELLS/L	8.4						
MESODINIUM RUBRUM	DF	%							
		CELLS/L							
PROTOPERIDINIUM PYRIFORME	DF	%							
		CELLS/L							
PROTOPERIDINIUM SPP.	DF	%	9.5						
		CELLS/L	14.0						

Columns are Species, Groups, and Units.

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Abundance of Prevalent Species (>5% Total Count) in Chlorophyll a Maximum Sample
Screened Phytoplankton, Survey WF984

			F27	F30	F31	N04	N16	N18
ATHECATE DINOFLAGELLATE	DF	%		23.0				
		CELLS/L		17.5				
CERATIUM FUSUS	DF	%						
		CELLS/L						
CERATIUM LONGIPES	DF	%	60.8	13.1	72.0	73.7	71.2	71.4
		CELLS/L	480.3	10.0	234.0	1647.5	1095.6	1135.0
CERATIUM SPP.	DF	%			8.0	7.4		7.8
		CELLS/L			26.0	165.0		123.8
CERATIUM TRIPOS	DF	%	21.5		8.0	8.8	11.4	11.1
		CELLS/L	170.0		26.0	197.5	174.9	176.3
DINOPHYSIS NORVEGICA	DF	%		13.1				
		CELLS/L		10.0				
DISTEPHANUS SPECULUM	CR	%						8.8
		CELLS/L						140.0
GYRODINIUM SP. GROUP 3 41-70UM W 51-70UM L	DF	%		11.5				
		CELLS/L		8.8				
MESODINIUM RUBRUM	DF	%		13.1				
		CELLS/L		10.0				
PROTOPERIDINIUM PYRIFORME	DF	%		6.6				
		CELLS/L		5.0				
PROTOPERIDINIUM SPP.	DF	%		9.8				
		CELLS/L		7.5				

Columns are Species, Groups, and Units.

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Abundance of Prevalent Species (>5% Total Count) in Chlorophyll a Maximum Sample
Screened Phytoplankton, Survey WN985

			N04	N18
CERATIUM FURCA	DF	%		8.8
		CELLS/L		152.5
CERATIUM LONGIPES	DF	%	39.7	46.8
		CELLS/L	227.5	807.5
CERATIUM SPP.	DF	%		6.7
		CELLS/L		115.0
DINOPHYSIS ACUMINATA	DF	%		9.6
		CELLS/L		165.0
DINOPHYSIS NORVEGICA	DF	%	21.8	9.4
		CELLS/L	125.0	162.5
PROTOPERIDINIUM DEPRESSUM	DF	%	6.1	
		CELLS/L	35.0	
PROTOPERIDINIUM SPP.	DF	%	11.3	11.0
		CELLS/L	65.0	190.0

Columns are Species, Groups, and Units.

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Abundance of Prevalent Species (>5% Total Count) in Chlorophyll a Maximum Sample
Screened Phytoplankton, Survey WN986

			N04	N18
CERATIUM FUSUS	DF	%		6.4
		CELLS/L		220.0
CERATIUM LINEATUM	DF	%	7.5	
		CELLS/L	15.0	
CERATIUM LONGIPES	DF	%	33.5	55.4
		CELLS/L	67.5	1915.0
CERATIUM SPP.	DF	%		5.1
		CELLS/L		175.0
CERATIUM TRIPOS	DF	%	13.7	6.8
		CELLS/L	27.5	235.0
DINOPHYSIS NORVEGICA	DF	%	12.4	17.5
		CELLS/L	25.0	605.0
DISTEPHANUS SPECULUM	CR	%	9.9	
		CELLS/L	20.0	
PROTOPERIDINIUM SPP.	DF	%	11.2	
		CELLS/L	22.5	

Columns are Species, Groups, and Units.

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Abundance of Prevalent Species (>5% Total Count) in Chlorophyll a Maximum Sample
Screened Phytoplankton, Survey WF987

			F01	F02	F06	F13	F23	F24	F25
ATHECATE DINOFLAGELLATE	DF	%				6.0			
		CELLS/L				12.3			
CERATIUM FUSUS	DF	%	8.5	7.3			7.0	11.2	9.7
		CELLS/L	61.3	25.2			230.4	295.0	342.0
CERATIUM LINEATUM	DF	%	28.3	5.5	11.7	10.8	37.9		15.9
		CELLS/L	203.3	18.9	36.6	22.1	1241.6		564.0
CERATIUM LONGIPES	DF	%	7.5	42.2	42.7	19.2	5.1	28.4	18.5
		CELLS/L	53.9	144.9	134.2	39.2	166.4	750.0	654.0
CERATIUM SPP.	DF	%			7.8	8.4			
		CELLS/L			24.4	17.2			
CERATIUM TRIPOS	DF	%	42.7	11.0	14.6	20.4	10.9	20.9	20.5
		CELLS/L	306.3	37.8	45.8	41.6	358.4	550.0	726.0
DINOPHYSIS NORVEGICA	DF	%		15.6		24.0	9.0	24.6	18.0
		CELLS/L		53.6		49.0	294.4	650.0	636.0
DISTEPHANUS SPECULUM	CR	%		7.3					
		CELLS/L		25.2					
PROTOPERIDINIUM SPP.	DF	%			8.7				
		CELLS/L			27.4				
PROTOPERIDINIUM TROCHOIDIUM	DF	%					19.9	7.6	10.0
		CELLS/L					652.8	200.0	354.0

Columns are Species, Groups, and Units.

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Abundance of Prevalent Species (>5% Total Count) in Chlorophyll a Maximum Sample
Screened Phytoplankton, Survey WF987

			F27	F30	F31	N04	N16	N18
ATHECATE DINOFLAGELLATE	DF	%						
		CELLS/L						
CERATIUM FUSUS	DF	%		7.7	6.5		8.1	
		CELLS/L		69.6	42.5		289.8	
CERATIUM LINEATUM	DF	%	6.1	5.8	16.2		20.0	
		CELLS/L	118.8	52.2	105.0		714.0	
CERATIUM LONGIPES	DF	%	23.0	18.0	11.5	48.5	17.9	33.3
		CELLS/L	448.2	162.4	75.0	1644.3	640.5	456.5
CERATIUM SPP.	DF	%		11.6				
		CELLS/L		104.4				
CERATIUM TRIPOS	DF	%	14.8	30.2	5.4	15.2	20.5	32.9
		CELLS/L	288.9	272.6	35.0	516.2	732.9	451.0
DINOPHYSIS NORVEGICA	DF	%	39.1	23.1	39.2	21.6	24.8	15.8
		CELLS/L	761.4	208.8	255.0	730.8	884.1	217.3
DSTEPHANUS SPECULUM	CR	%						
		CELLS/L						
PROTOPERIDINIUM SPP.	DF	%						
		CELLS/L						
PROTOPERIDINIUM TROCHOIDIUM	DF	%	7.3					
		CELLS/L	143.1					

Columns are Species, Groups, and Units.
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Abundance of Prevalent Species (>5% Total Count) in Chlorophyll a Maximum Sample
Screened Phytoplankton, Survey WN988

			N04	N18
CERATIUM FUSUS	DF	%	16.3	24.9
		CELLS/L	772.2	1284.4
CERATIUM TRIPOS	DF	%	58.8	34.0
		CELLS/L	2786.4	1755.6
DINOPHYSIS NORVEGICA	DF	%	13.2	33.1
		CELLS/L	626.4	1710.0

Columns are Species, Groups, and Units.

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Abundance of Prevalent Species (>5% Total Count) in Chlorophyll a Maximum Sample
Screened Phytoplankton, Survey WN989

			N04	N18
CERATIUM FUSUS	DF	%	30.3	24.2
		CELLS/L	2054.8	748.2
CERATIUM LINEATUM	DF	%	7.8	
		CELLS/L	528.0	
CERATIUM TRIPOS	DF	%	37.7	31.2
		CELLS/L	2556.4	962.8
DINOPHYSIS NORVEGICA	DF	%	9.9	27.4
		CELLS/L	668.8	846.8

Columns are Species, Groups, and Units.
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APPENDIX H

**ABUNDANCE OF PREVALENT SPECIES
IN ZOOPLANKTON TOW SAMPLES**

Abundance of Prevalent Species (>5% Total Count)
Zooplankton, Survey WF981

				F01	F02	F06	F13	F23
ACARTIA HUDSONICA	C	C	%					20
			ind/m3					234
	F	C	%					
			ind/m3					
CENTROPAGES SPP.	C	C	%	7				
			ind/m3	815				
CIRRIPEDIA SPP.	N	B	%					10
			ind/m3					117
COPEPOD SPP.	N	C	%	29	48	40	32	16
			ind/m3	3491	11585	5136	2148	193
GASTROPODA SPP.	V	OZ	%	6		9	7	
			ind/m3	698		1203	438	
OITHONA SIMILIS CLAUS	C	C	%	34	23	35	34	20
			ind/m3	4073	5489	4550	2281	234
	F	C	%	13	9	8	13	8
			ind/m3	1600	2263	1041	900	96
PSEUDOCALANUS NEWMANI	C	C	%		11			
			ind/m3		2640			

Columns are Species, Life Stage, Group, and Units
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Abundance of Prevalent Species (>5% Total Count)
 Zooplankton, Survey WF981

				F24	F25	F27	F30	F31
ACARTIA HUDSONICA	C	C	%					6
			ind/m3					116
	F	C	%					
			ind/m3					
CENTROPAGES SPP.	C	C	%	5	5		9	7
			ind/m3	346	444		1506	146
CIRRIPEDIA SPP.	N	B	%		6			22
			ind/m3		486			456
COPEPOD SPP.	N	C	%	30	28	38		10
			ind/m3	1887	2366	3756		207
GASTROPODA SPP.	V	OZ	%		10	7	36	
			ind/m3		803	742	6118	
OITHONA SIMILIS CLAUS	C	C	%	35	28	34	16	28
			ind/m3	2215	2323	3418	2729	566
	F	C	%	15	12	11	25	12
			ind/m3	930	993	1048	4329	243
PSEUDOCALANUS NEWMANI	C	C	%		6			
			ind/m3		486			

Columns are Species, Life Stage, Group, and Units
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Abundance of Prevalent Species (>5% Total Count)
Zooplankton, Survey WF981

				F32	F33	N04	N16	N18
ACARTIA HUDSONICA	C	C	%					27
			ind/m3					827
	F	C	%					15
			ind/m3					447
CENTROPAGES SPP.	C	C	%					
			ind/m3					
CIRRIPEDIA SPP.	N	B	%					
			ind/m3					
COPEPOD SPP.	N	C	%	29	64	30	32	40
			ind/m3	16331	18259	3888	3116	1208
GASTROPODA SPP.	V	OZ	%			19		
			ind/m3			2481		
OITHONA SIMILIS CLAUS	C	C	%	9	19	33	47	
			ind/m3	4929	5414	4215	4526	
	F	C	%	5		9	10	
			ind/m3	3016		1151	947	
PSEUDOCALANUS NEWMANI	C	C	%	39	7			5
			ind/m3	21701	2110			505

Columns are Species, Life Stage, Group, and Units
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Abundance of Prevalent Species (>5% Total Count)
Zooplankton, Survey WF982

				F01	F02	F06	F13	F23
ACARTIA HUDSONICA	C	C	%					
			ind/m3					
CIRRIPEDIA SPP.	N	B	%	11	8		5	25
			ind/m3	1698	2052		1853	1920
COPEPOD SPP.	N	C	%	34	39	20	38	24
			ind/m3	5066	9553	11208	13312	1784
GASTROPODA SPP.	V	OZ	%	13	9	51	14	
			ind/m3	2006	2127	29251	5022	
HARPACTICOIDA SPP.	null	C	%					25
			ind/m3					1920
OITHONA SIMILIS CLAUS	C	C	%	26	22	19	29	6
			ind/m3	3825	5262	10953	10264	463
	F	C	%	6	8		7	
			ind/m3	877	2015		2633	
POLYCHAETE SPP.	L	OZ	%					
			ind/m3					
	T	OZ	%					
			ind/m3					
PSEUDOCALANUS NEWMANI	C	C	%					5
			ind/m3					409

Columns are Species, Life Stage, Group, and Units
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Abundance of Prevalent Species (>5% Total Count)
Zooplankton, Survey WF982

				F24	F25	F27	F30	F31
ACARTIA HUDSONICA	C	C	%				7	
			ind/m3				551	
CIRRIPEDIA SPP.	N	B	%	11	16	6	35	16
			ind/m3	733	2372	1819	2862	788
COPEPOD SPP.	N	C	%	58	41	39	26	25
			ind/m3	3767	6227	11241	2080	1175
GASTROPODA SPP.	V	OZ	%			17		
			ind/m3			4786		
HARPACTICOIDA SPP.	null	C	%					27
			ind/m3					1314
OITHONA SIMILIS CLAUS	C	C	%	17	24	22		14
			ind/m3	1089	3707	6389		665
	F	C	%			7		5
			ind/m3			1993		247
POLYCHAETE SPP.	L	OZ	%				8	
			ind/m3				640	
	T	OZ	%				10	
			ind/m3				836	
PSEUDOCALANUS NEWMANI	C	C	%					
			ind/m3					

Columns are Species, Life Stage, Group, and Units
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Abundance of Prevalent Species (>5% Total Count)
Zooplankton, Survey WF982

				F32	F33	N04	N16	N18
ACARTIA HUDSONICA	C	C	%					
			ind/m3					
CIRRIPEDIA SPP.	N	B	%	8				
			ind/m3	2089				
COPEPOD SPP.	N	C	%	24	58	31	34	74
			ind/m3	6452	17026	10263	9659	6872
GASTROPODA SPP.	V	OZ	%	16		34	20	5
			ind/m3	4405		11356	5693	472
HARPACTICOIDA SPP.	null	C	%					
			ind/m3					
OITHONA SIMILIS CLAUS	C	C	%	27	11	21	28	14
			ind/m3	7362	3114	7024	7931	1246
	F	C	%	7	8			
			ind/m3	2006	2386			
POLYCHAETE SPP.	L	OZ	%					
			ind/m3					
	T	OZ	%					
			ind/m3					
PSEUDOCALANUS NEWMANI	C	C	%		6		6	
			ind/m3		1779		1649	

Columns are Species, Life Stage, Group, and Units
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Abundance of Prevalent Species (>5% Total Count)
Zooplankton, Survey WN983

				N04	N18
CALANUS FINMARCHICUS	C	C	%		5
			ind/m3		1626
COPEPOD SPP.	N	C	%	37	50
			ind/m3	10606	15177
GASTROPODA SPP.	V	OZ	%	13	
			ind/m3	3836	
OITHONA SIMILIS CLAUS	C	C	%	30	34
			ind/m3	8600	10465
	F	C	%	7	5
			ind/m3	1881	1626

Columns are Species, Life Stage, Group, and Units
1 Zoosum.bqy

Abundance of Prevalent Species (>5% Total Count)
Zooplankton, Survey WF984

				F01	F02	F06	F13	F23
CALANUS FINMARCHICUS	C	C	%			5		
			ind/m3			1709		
CIRRIPEDIA SPP.	N	B	%	14			54	38
			ind/m3	1844			18748	580
COPEPOD SPP.	N	C	%	19	15	22	11	16
			ind/m3	2592	1930	7547	3755	252
GASTROPODA SPP.	V	OZ	%	10	29	26	7	
			ind/m3	1336	3819	8797	2439	
HARPACTICOIDA SPP.	C	C	%					5
			ind/m3					79
OIKOPLEURA DIOICA	null	OZ	%		6			
			ind/m3		839			
OITHONA SIMILIS CLAUS	C	C	%	29	28	22	13	20
			ind/m3	3875	3777	7630	4577	313
	F	C	%	7	7	5		5
			ind/m3	935	965	1793		79
POLYCHAETE SPP.	L	OZ	%					
			ind/m3					
PSEUDOCALANUS NEWMANI	C	C	%	7		8		
			ind/m3	962		2627		

Columns are Species, Life Stage, Group, and Units
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Abundance of Prevalent Species (>5% Total Count)
Zooplankton, Survey WF984

				F24	F25	F27	F30	F31
CALANUS FINMARCHICUS	C	C	%			5		
			ind/m3			1449		
CIRRIPEDIA SPP.	N	B	%		13		21	24
			ind/m3		2150		2451	8236
COPEPOD SPP.	N	C	%	25	19	27	37	15
			ind/m3	17683	3098	7366	4308	5060
GASTROPODA SPP.	V	OZ	%	20	25	11		13
			ind/m3	13984	4096	3019		4614
HARPACTICOIDA SPP.	C	C	%					
			ind/m3					
OIKOPLEURA DIOICA	null	OZ	%					
			ind/m3					
OITHONA SIMILIS CLAUS	C	C	%	28	20	39		27
			ind/m3	19977	3328	10626		9129
	F	C	%	7	6			9
			ind/m3	5253	1024			2977
POLYCHAETE SPP.	L	OZ	%				19	
			ind/m3				2267	
PSEUDOCALANUS NEWMANI	C	C	%			6		
			ind/m3			1509		

Columns are Species, Life Stage, Group, and Units
2 Zoosum.bqy

Abundance of Prevalent Species (>5% Total Count)
Zooplankton, Survey WF984

				F32	F33	N04	N16	N18
CALANUS FINMARCHICUS	C	C	%	7	11			5
			ind/m3	1953	2233			2448
CIRRIPEDIA SPP.	N	B	%		6			
			ind/m3		1240			
COPEPOD SPP.	N	C	%	28	31	38	27	36
			ind/m3	7970	6152	21180	11214	16829
GASTROPODA SPP.	V	OZ	%	9	14	18	20	15
			ind/m3	2586	2828	10257	8310	7139
HARPACTICOIDA SPP.	C	C	%					
			ind/m3					
OIKOPLEURA DIOICA	null	OZ	%					
			ind/m3					
OITHONA SIMILIS CLAUS	C	C	%	35	23	23	25	26
			ind/m3	9818	4515	12842	10365	12239
	F	C	%	6	6	7		
			ind/m3	1742	1290	4086		
POLYCHAETE SPP.	L	OZ	%					
			ind/m3					
PSEUDOCALANUS NEWMANI	C	C	%				9	
			ind/m3				3887	

Columns are Species, Life Stage, Group, and Units
3 Zoosum.bqy

Abundance of Prevalent Species (>5% Total Count)
Zooplankton, Survey WN985

				N04	N18
COPEPOD SPP.	N	C	%	20	34
			ind/m3	2018	10862
GASTROPODA SPP.	V	OZ	%	13	8
			ind/m3	1325	2523
OIKOPLEURA DIOICA	null	OZ	%	9	8
			ind/m3	904	2615
OITHONA SIMILIS CLAUS	C	C	%	25	20
			ind/m3	2470	6308
	F	C	%	9	8
			ind/m3	873	2431
PSEUDOCALANUS NEWMANI	C	C	%	6	10
			ind/m3	602	3169

Columns are Species, Life Stage, Group, and Units
1 Zoosum.bqy

Abundance of Prevalent Species (>5% Total Count)
 Zooplankton, Survey WN986

				N04	N18
BIVALVIA SPP.	V	OZ	%	14	8
			ind/m3	7488	5668
COPEPOD SPP.	N	C	%	53	52
			ind/m3	27574	37715
GASTROPODA SPP.	V	OZ	%	7	
			ind/m3	3541	
OITHONA SIMILIS CLAUS	C	C	%	8	10
			ind/m3	4354	7150
PSEUDOCALANUS NEWMANI	C	C	%	6	10
			ind/m3	3135	7261

Columns are Species, Life Stage, Group, and Units
 1 Zoosum.bqy

Abundance of Prevalent Species (>5% Total Count)
Zooplankton, Survey WF987

				F01	F02	F06	F13	F23
ACARTIA HUDSONICA	C	C	%					
			ind/m3					
	F	C	%					
			ind/m3					
BIVALVIA SPP.	V	OZ	%	33	11	24	49	16
			ind/m3	5256	1835	3556	7215	45082
COPEPOD SPP.	N	C	%	16	45	8	19	30
			ind/m3	2531	7206	1113	2731	87265
EVADNE NORDMANNI	null	OZ	%					14
			ind/m3					41218
GASTROPODA SPP.	V	OZ	%					
			ind/m3					
MICROSETELLA NORVEGICA	null	C	%			11		
			ind/m3			1670		
OIKOPLEURA DIOICA	null	OZ	%	8				
			ind/m3	1314				
OITHONA SIMILIS CLAUS	C	C	%	8	20	9		
			ind/m3	1314	3200	1329		
	F	C	%					
			ind/m3					
POLYCHAETE SPP.	L	OZ	%					16
			ind/m3					45082

Columns are Species, Life Stage, Group, and Units

Abundance of Prevalent Species (>5% Total Count)
Zooplankton, Survey WF987

				F01	F02	F06	F13	F23
PSEUDOCALANUS NEWMANI	C	C	%	15	9	12		
			ind/m3	2385	1432	1793		
TEMORA LONGICORNIS	C	C	%	6		21	9	
			ind/m3	876		2999	1386	

Columns are Species, Life Stage, Group, and Units

Abundance of Prevalent Species (>5% Total Count)
Zooplankton, Survey WF987

				F24	F25	F27	F30	F31
ACARTIA HUDSONICA	C	C	%				15	7
			ind/m3				9269	2723
	F	C	%				6	
			ind/m3				3641	
BIVALVIA SPP.	V	OZ	%	15		23	7	14
			ind/m3	6341		12561	4414	5447
COPEPOD SPP.	N	C	%	46	51	14	43	37
			ind/m3	19497	23437	7357	26372	13889
EVADNE NORDMANNI	null	OZ	%	8	12			
			ind/m3	3448	5408			
GASTROPODA SPP.	V	OZ	%			9		7
			ind/m3			4725		2669
MICROSETELLA NORVEGICA	null	C	%					
			ind/m3					
OIKOPLEURA DIOICA	null	OZ	%					
			ind/m3					
OITHONA SIMILIS CLAUS	C	C	%	7	6	18		
			ind/m3	2933	2764	9450		
	F	C	%					
			ind/m3					
POLYCHAETE SPP.	L	OZ	%				6	
			ind/m3				3641	

Columns are Species, Life Stage, Group, and Units

Abundance of Prevalent Species (>5% Total Count)
Zooplankton, Survey WF987

				F24	F25	F27	F30	F31
PSEUDOCALANUS NEWMANI	C	C	%	6		17		
			ind/m3	2615		9092		
TEMORA LONGICORNIS	C	C	%			7		8
			ind/m3			3589		2832

Columns are Species, Life Stage, Group, and Units

TABLE 15.
Abundance of Prevalent Species (>5% Total Count)
Zooplankton, Survey WF987

				N04	N16	N18
ACARTIA HUDSONICA	C	C	%			
			ind/m3			
	F	C	%			
			ind/m3			
BIVALVIA SPP.	V	OZ	%	11	11	11
			ind/m3	5701	2647	7675
COPEPOD SPP.	N	C	%	40	26	44
			ind/m3	21560	6158	30409
EVADNE NORDMANNI	null	OZ	%	10		
			ind/m3	5437		
GASTROPODA SPP.	V	OZ	%			
			ind/m3			
MICROSETELLA NORVEGICA	null	C	%			
			ind/m3			
OIKOPLEURA DIOICA	null	OZ	%			
			ind/m3			
OITHONA SIMILIS CLAUS	C	C	%	10	13	14
			ind/m3	5324	2952	9521
	F	C	%		5	
			ind/m3		1171	
POLYCHAETE SPP.	L	OZ	%			
			ind/m3			

Columns are Species, Life Stage, Group, and Units

Abundance of Prevalent Species (>5% Total Count)
 Zooplankton, Survey WF987

				N04	N16	N18
PSEUDOCALANUS NEWMANI	C	C	%		8	6
			ind/m3		1832	3886
TEMORA LONGICORNIS	C	C	%	6	11	7
			ind/m3	3172	2545	4955

Columns are Species, Life Stage, Group, and Units

Abundance of Prevalent Species (>5% Total Count)
 Zooplankton, Survey WN988

				N04	N18
BIVALVIA SPP.	V	OZ	%		13
			ind/m3		3832
COPEPOD SPP.	N	C	%	49	29
			ind/m3	15864	8356
MICROSETELLA NORVEGICA	null	C	%		6
			ind/m3		1597
OITHONA SIMILIS CLAUS	C	C	%	20	16
			ind/m3	6353	4577
	F	C	%	7	
			ind/m3	2105	
PSEUDOCALANUS NEWMANI	C	C	%	7	
			ind/m3	2218	

Columns are Species, Life Stage, Group, and Units

Abundance of Prevalent Species (>5% Total Count)
Zooplankton, Survey WN989

				N04	N18
BIVALVIA SPP.	V	OZ	%		10
			ind/m3		2775
COPEPOD SPP.	N	C	%	30	35
			ind/m3	13402	9323
OIKOPLEURA DIOICA	null	OZ	%	9	6
			ind/m3	3891	1665
OITHONA SIMILIS CLAUS	C	C	%	25	17
			ind/m3	10993	4550
	F	C	%	11	10
			ind/m3	4879	2664
PSEUDOCALANUS NEWMANI	C	C	%	11	
			ind/m3	4756	
TEMORA LONGICORNIS	C	C	%		5
			ind/m3		1443

Columns are Species, Life Stage, Group, and Units

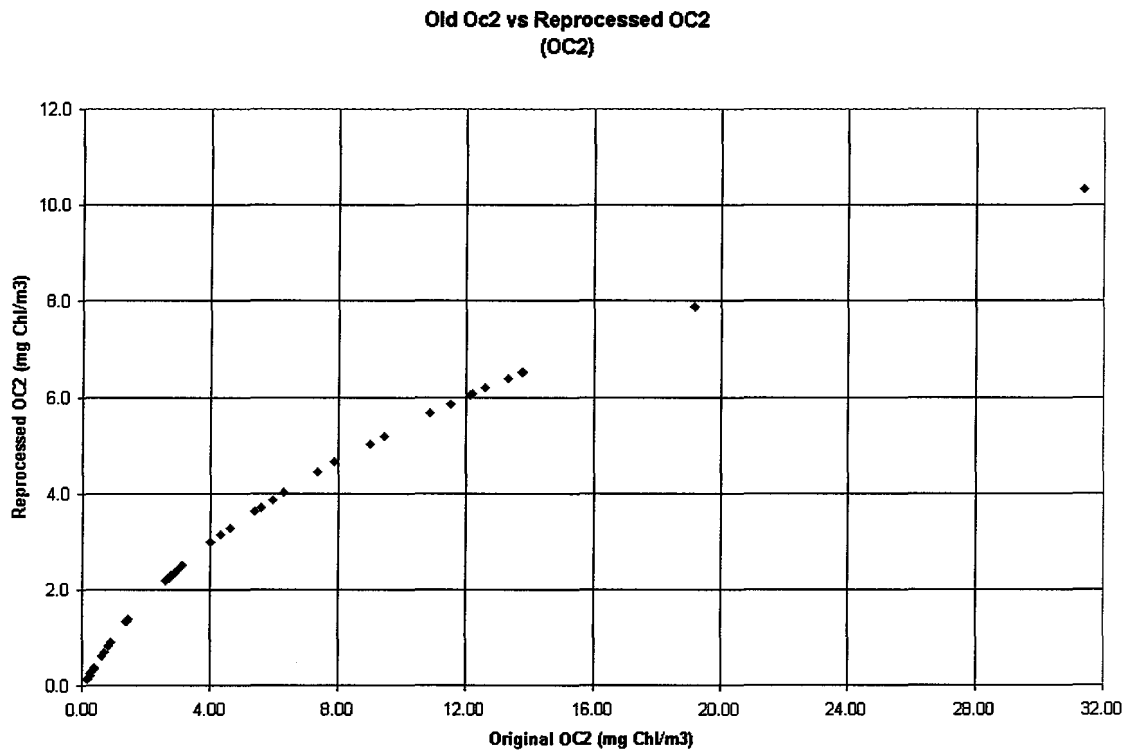
APPENDIX I

Satellite Images of Chlorophyll a Concentrations and Temperature

Satellite Image Chlorophyll Concentration Calibration Correction

During analysis of the enclosed satellite images, it was determined that the chlorophyll a concentrations reported on the satellite images were incorrect. Since this discovery NOAA supplied the figure below that shows the correlation of the actual chlorophyll a concentrations to the original chlorophyll a data reported on the enclosed images. The graph shows that values:

- $< \sim 2$ mg Chl/m³ are equivalent to the reported concentrations
- ~ 2 mg Chl/m³ to ~ 16 mg Chl/m³ are incorrect by a multiplier of ~ 2 (e.g., original values of 12.00 mg Chl/m³ are actually concentrations of 6.00 mg Chl/m³)
- ~ 16 mg Chl/m³ and greater are incorrect by a multiplier of ~ 3 (e.g., original values of 31.00 mg Chl/m³ are actually concentrations of 10.50 mg Chl/m³)



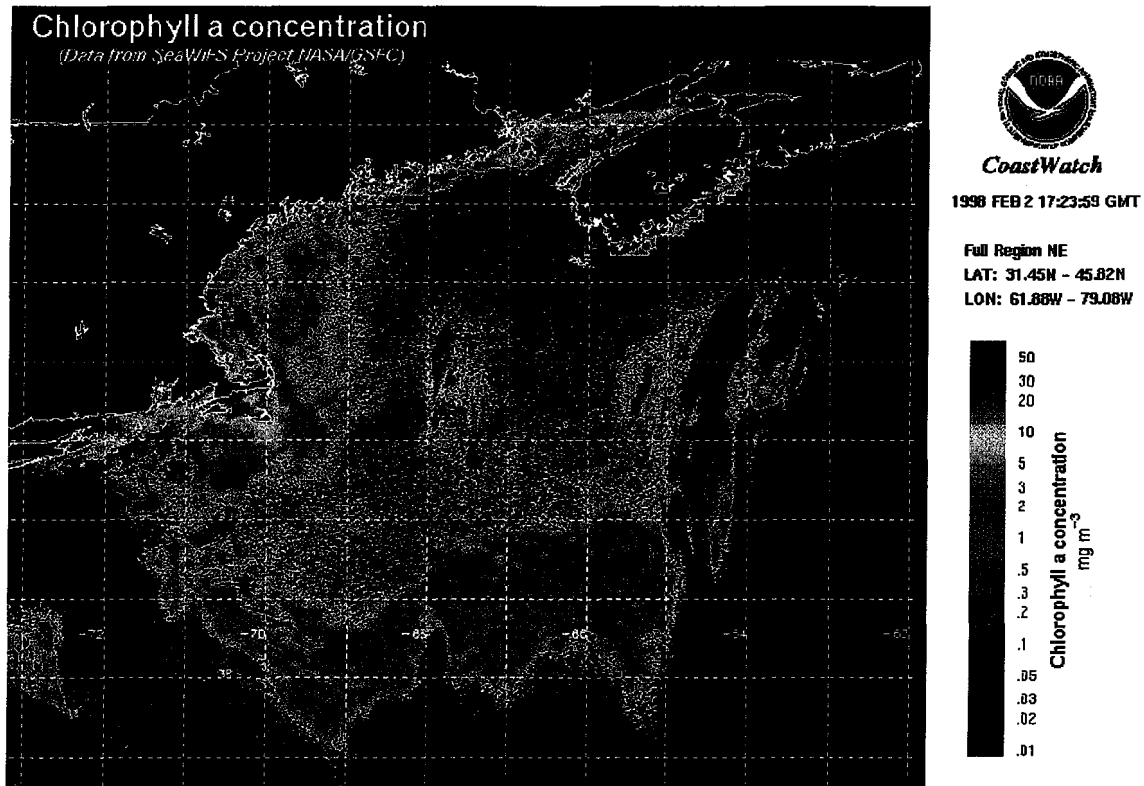


Figure I-1. Chlorophyll a Concentrations from February 2, 1998

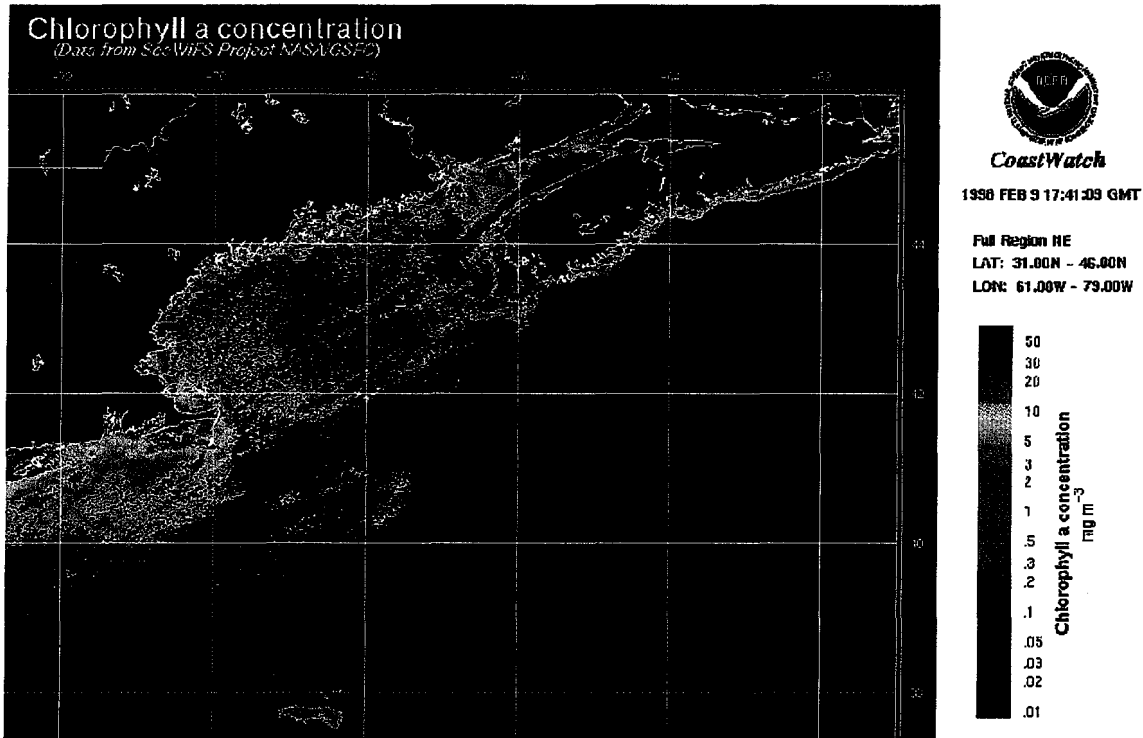


Figure I-2. Chlorophyll a Concentrations from February 9, 1998

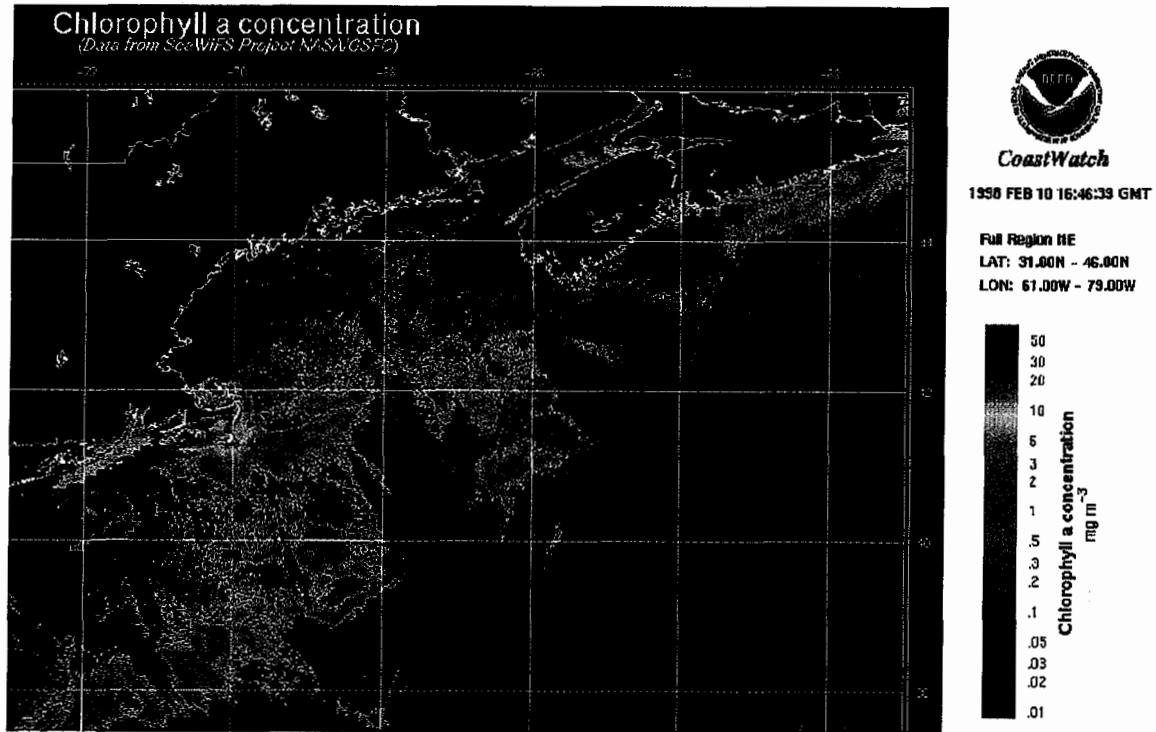


Figure I-3. Chlorophyll a Concentrations from February 10, 1998

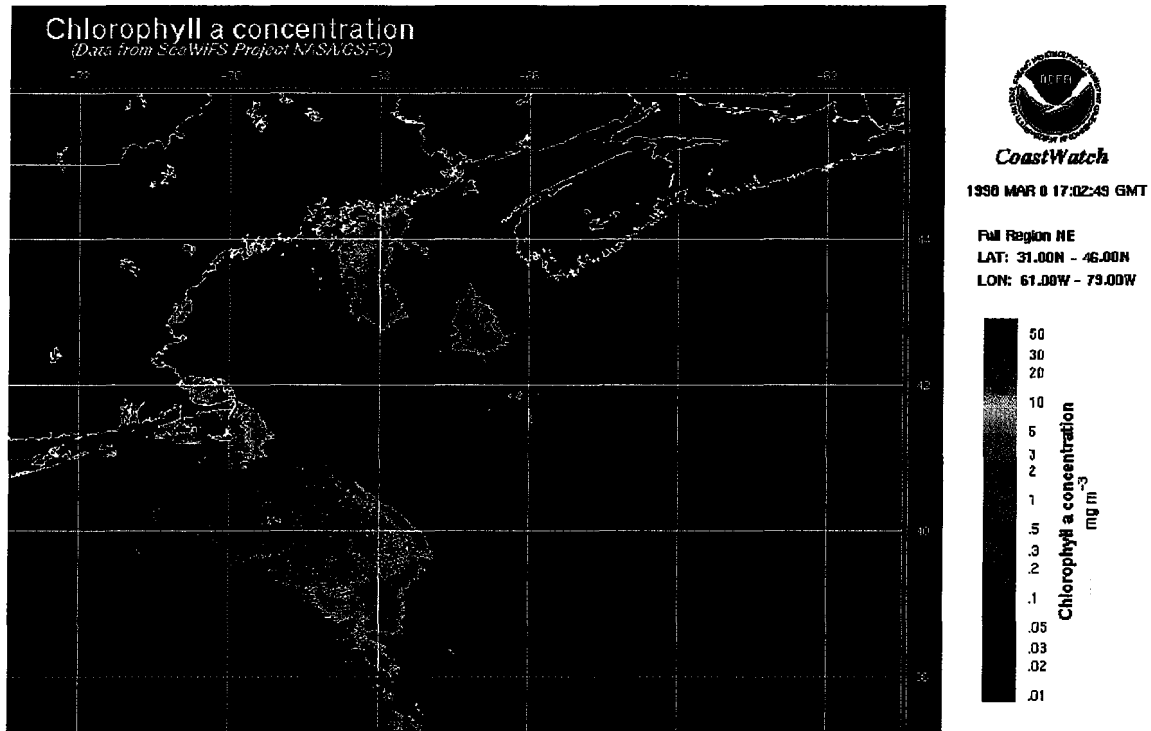


Figure I-4. Chlorophyll a Concentration from March 0, 1998

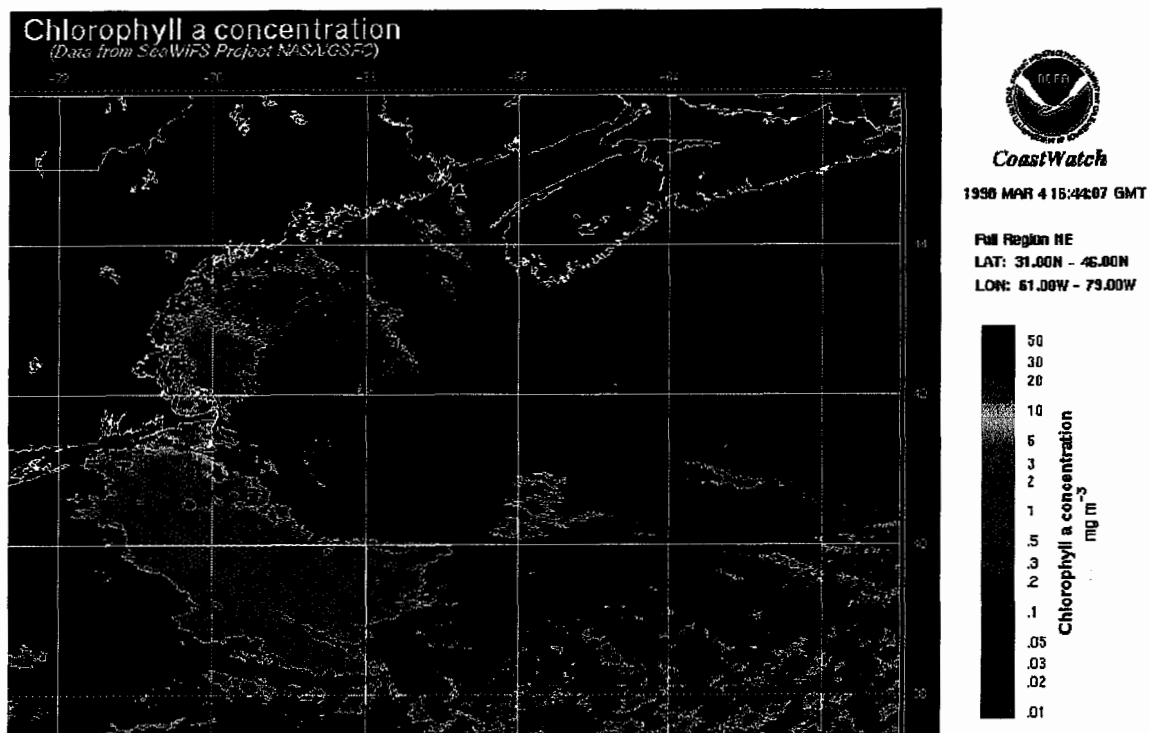


Figure I-5. Chlorophyll a Concentrations from March 4, 1998

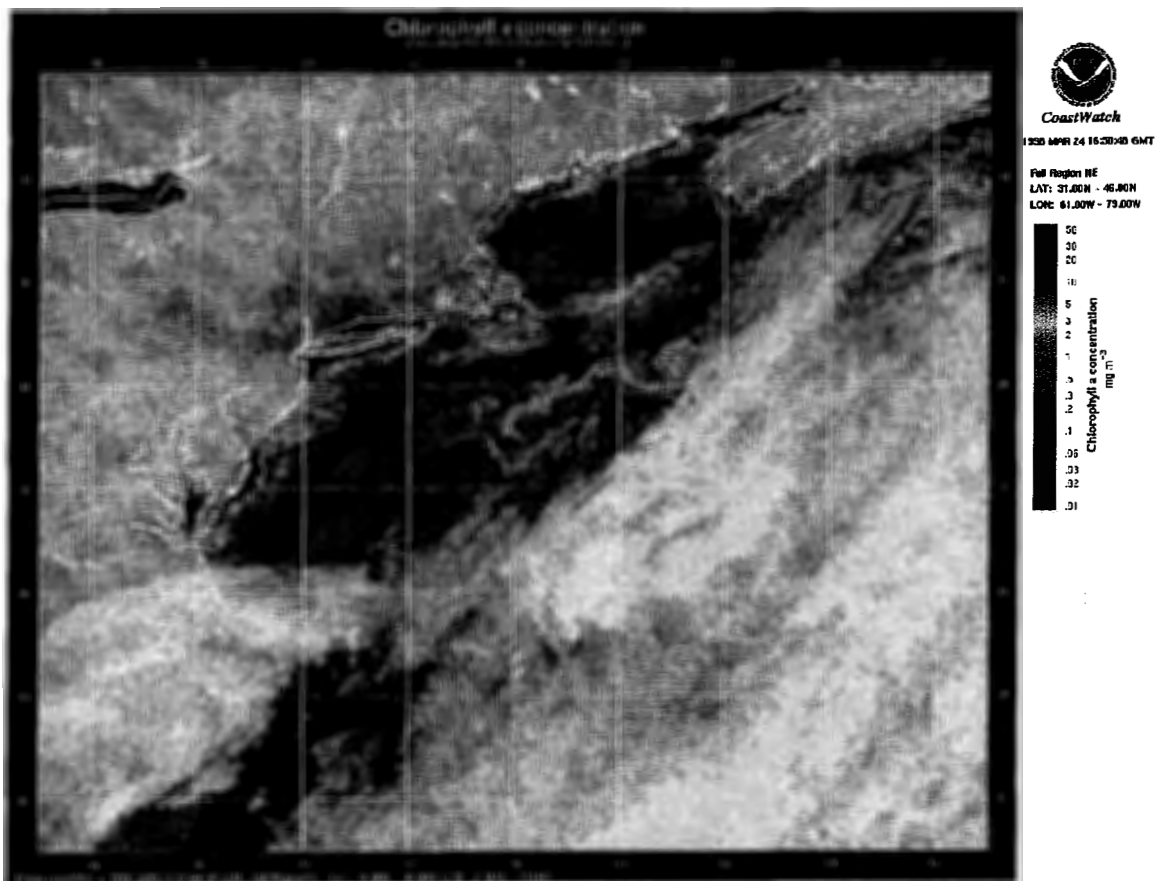


Figure I-6. Chlorophyll a Concentration from March 24, 1998

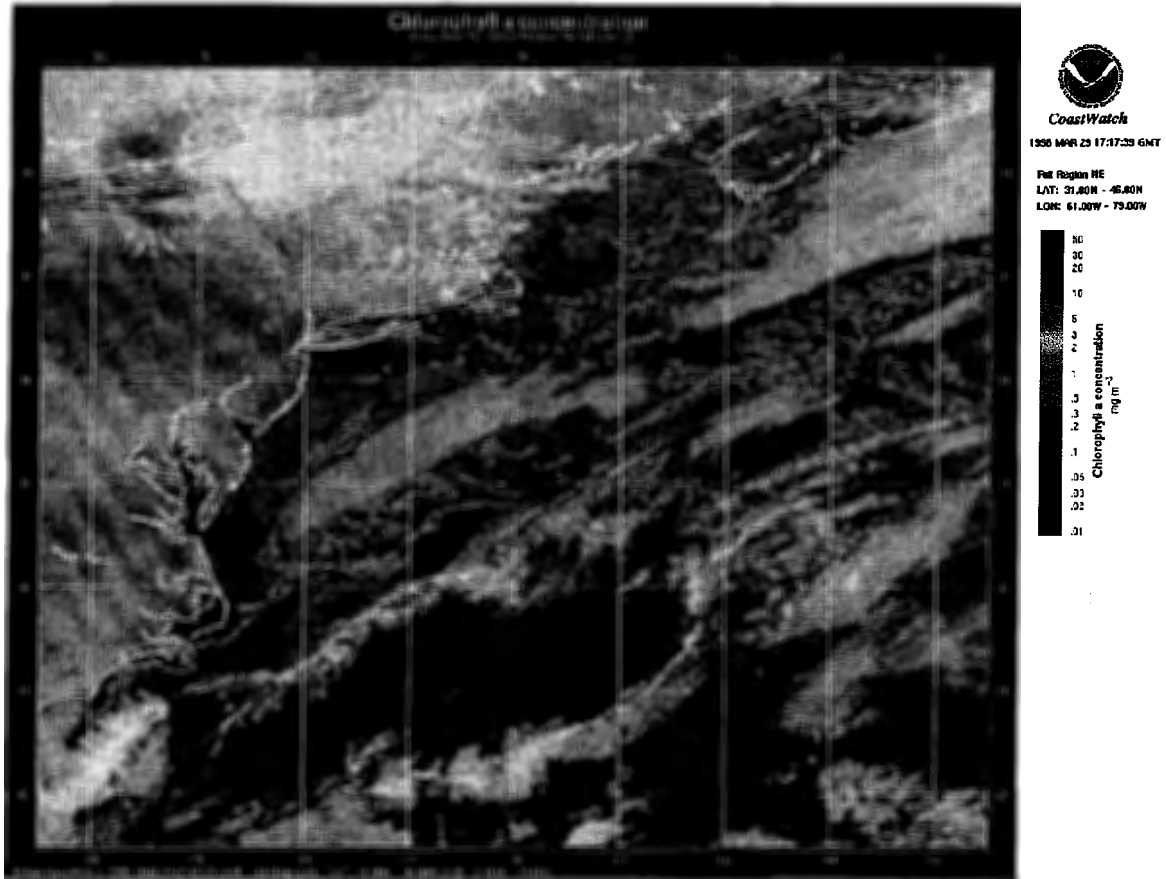


Figure I-7. Chlorophyll a Concentration from March 29, 1998

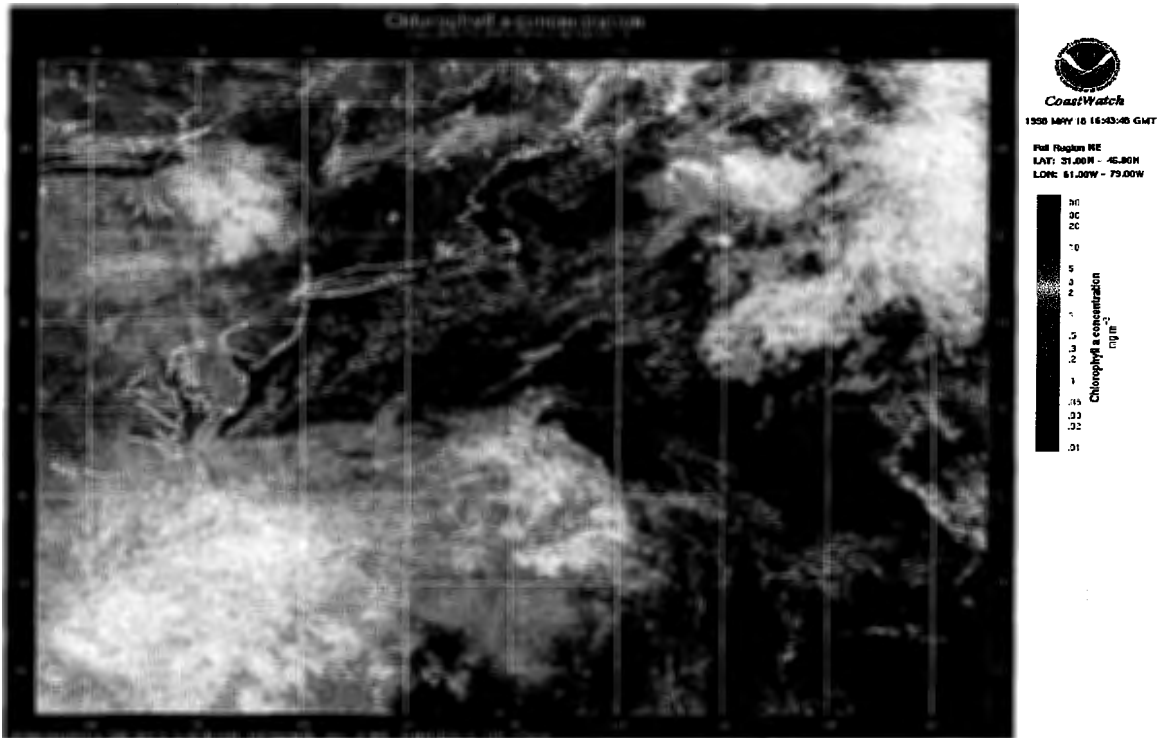


Figure I-8. Chlorophyll a Concentration from May 18, 1998

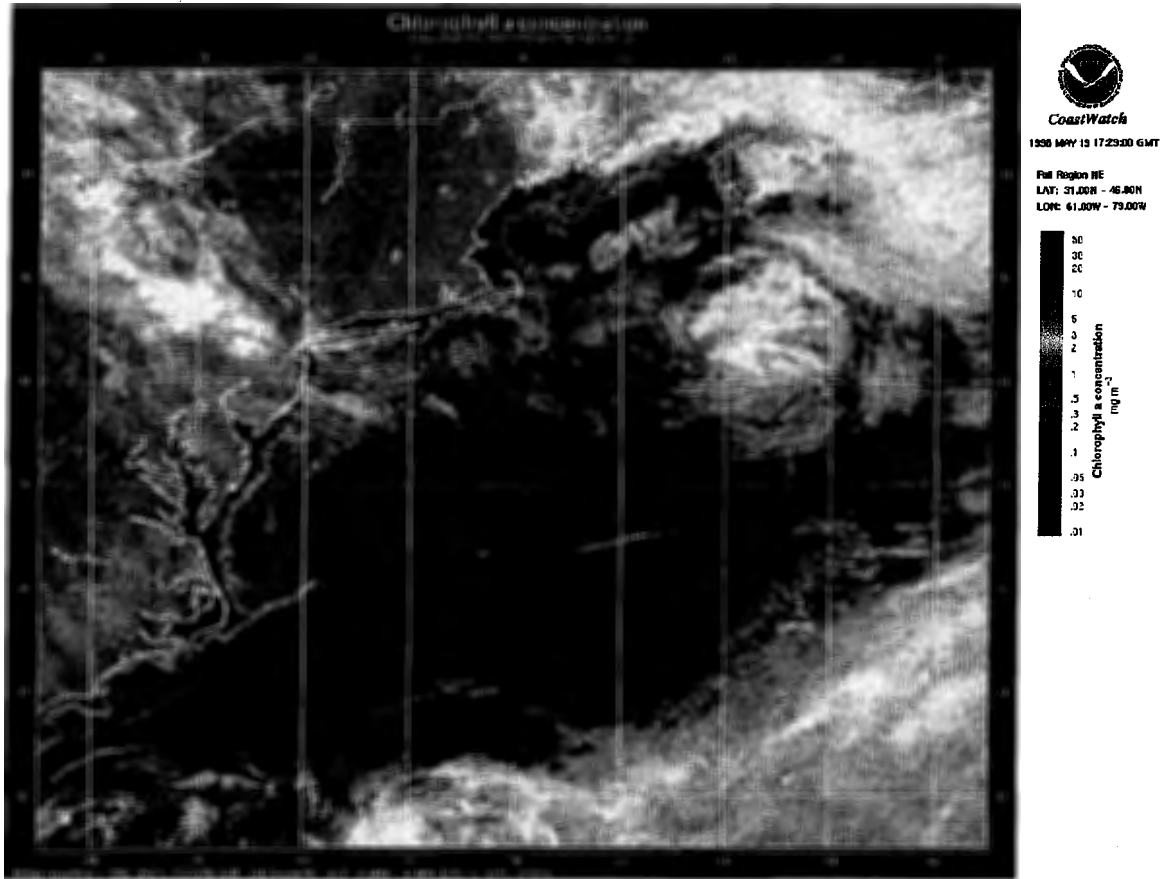


Figure I-9. Chlorophyll a Concentration from May 19, 1998

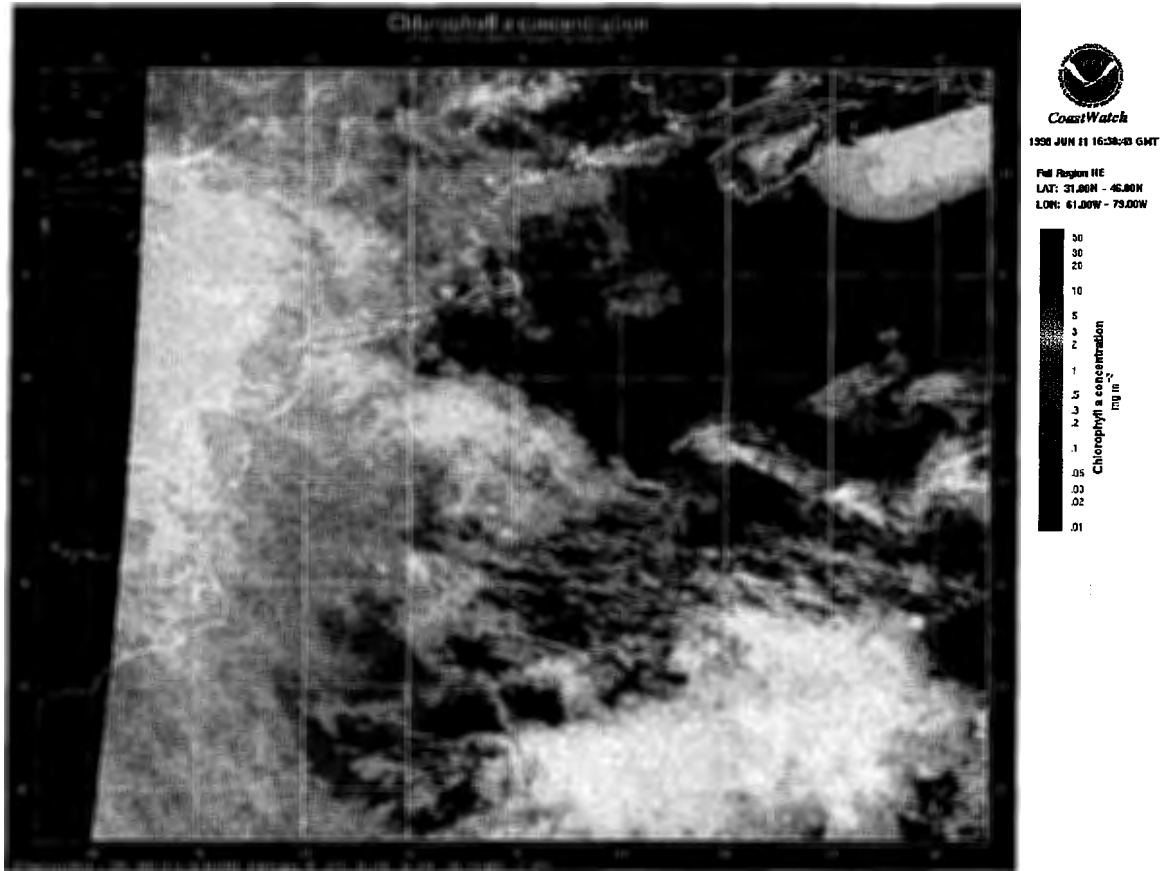


Figure I-10. Chlorophyll a Concentration from June 11, 1998

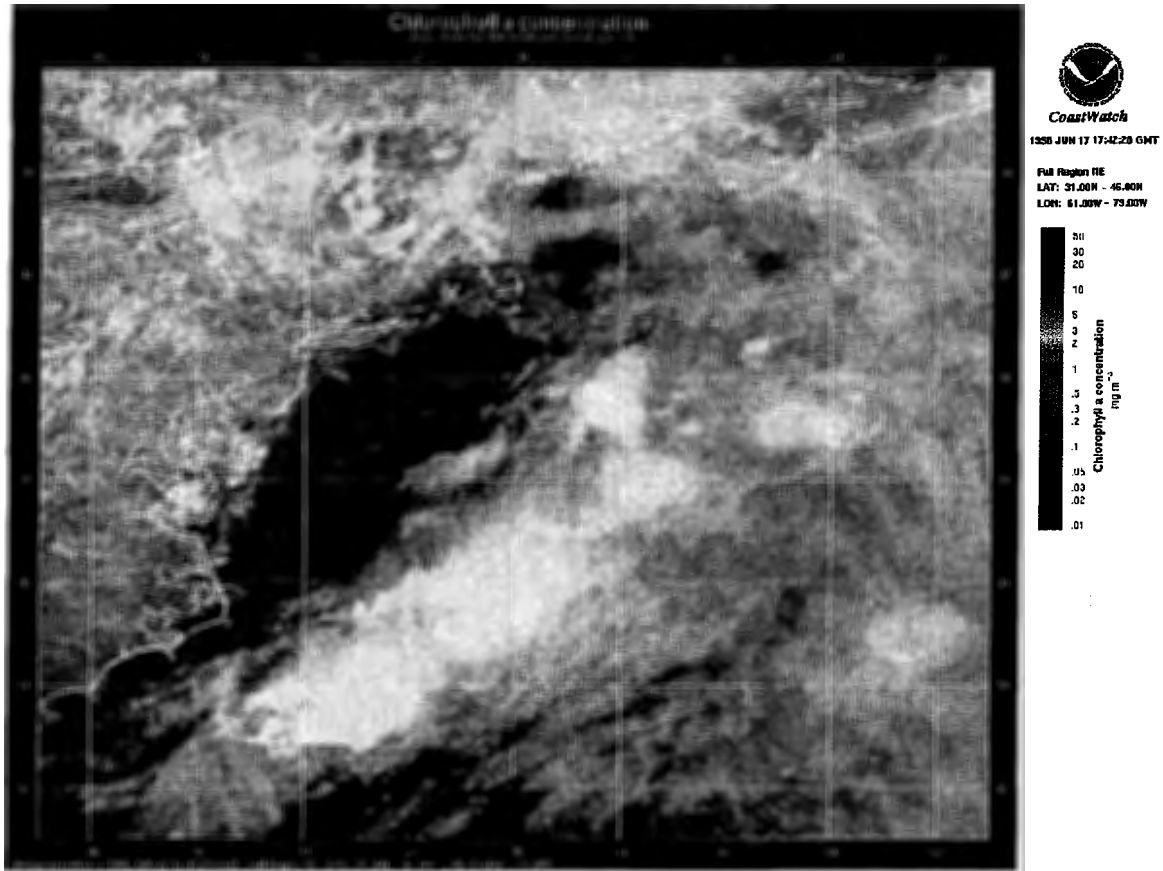


Figure I-11. Chlorophyll a Concentration from June 17, 1998

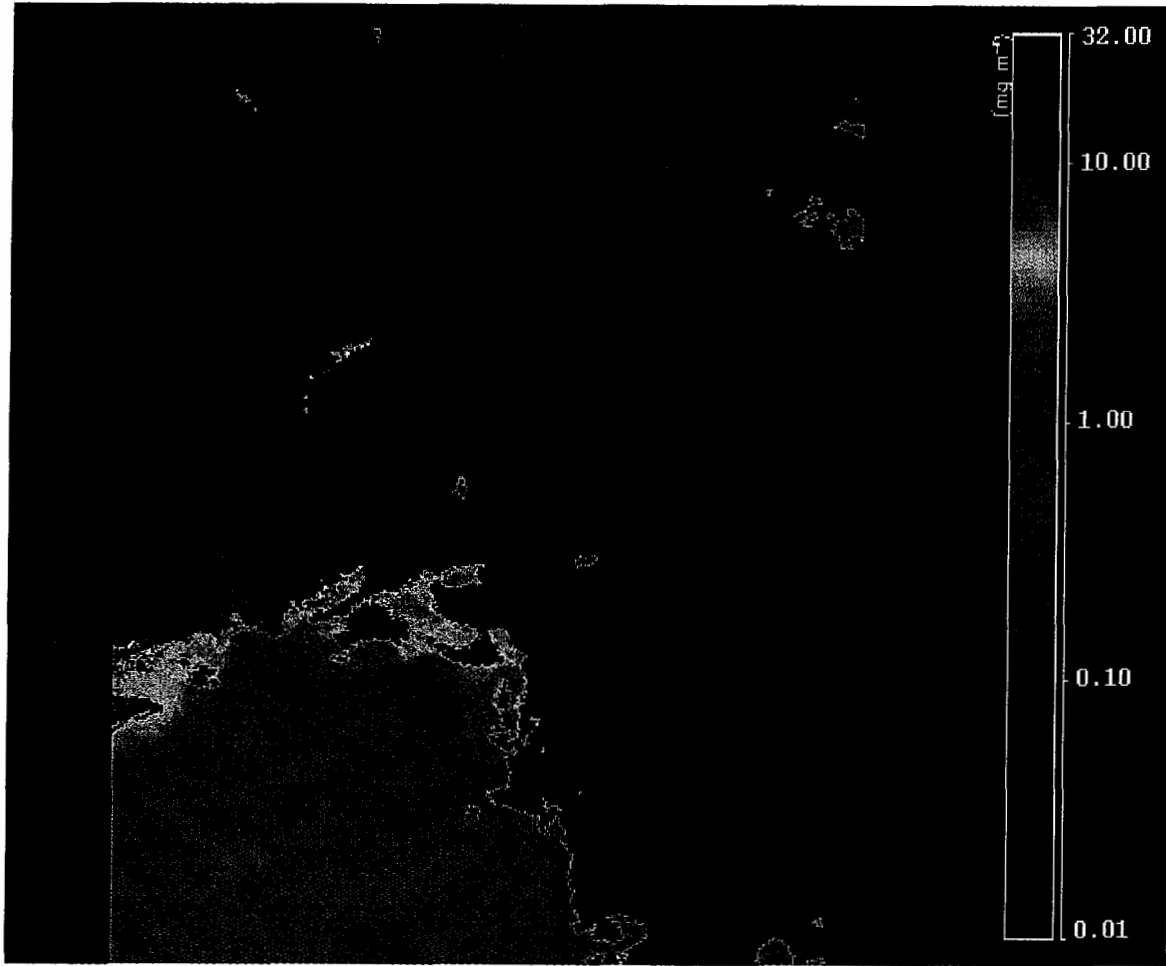


Figure I-12. Chlorophyll a Concentration from June 19, 1998

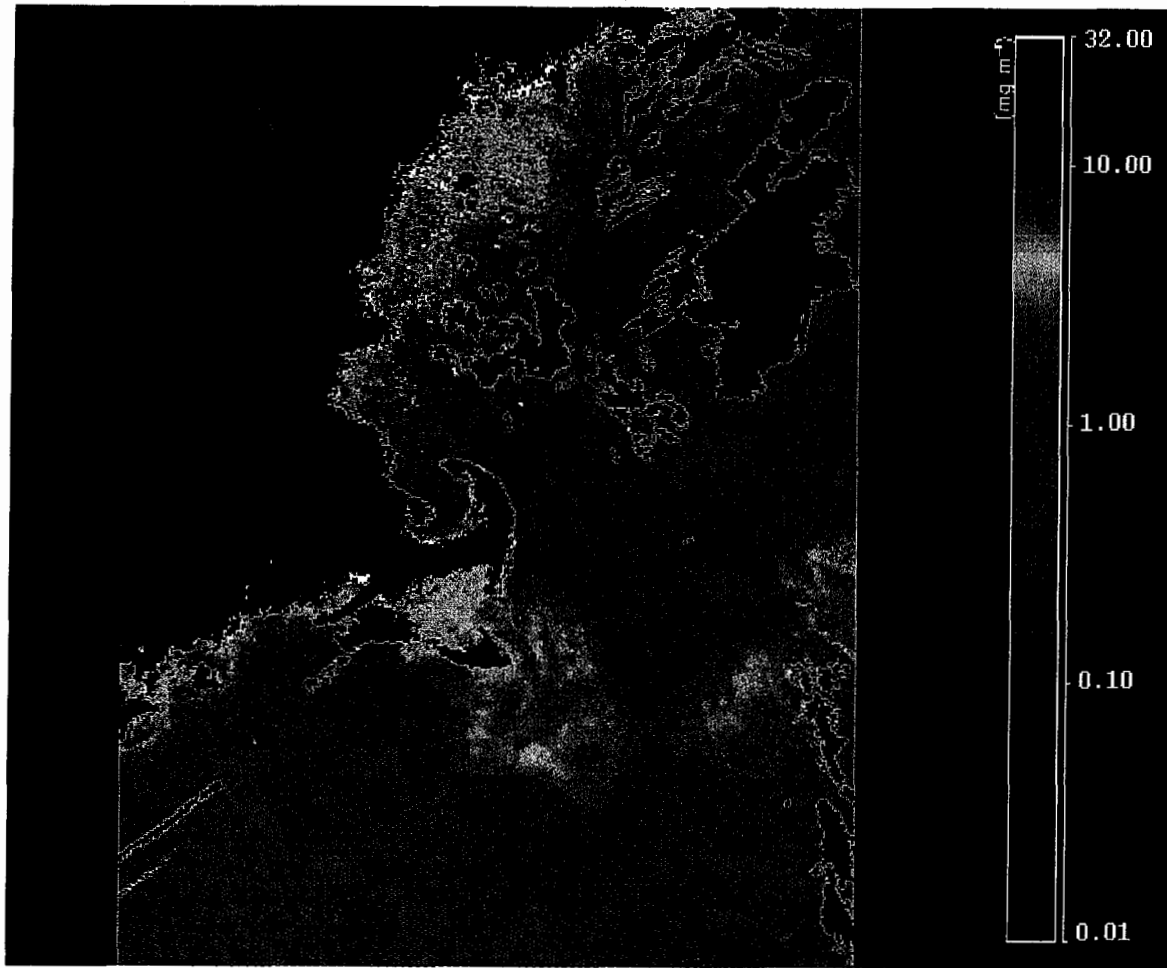


Figure I-13. Chlorophyll a Concentration from July 13, 1998

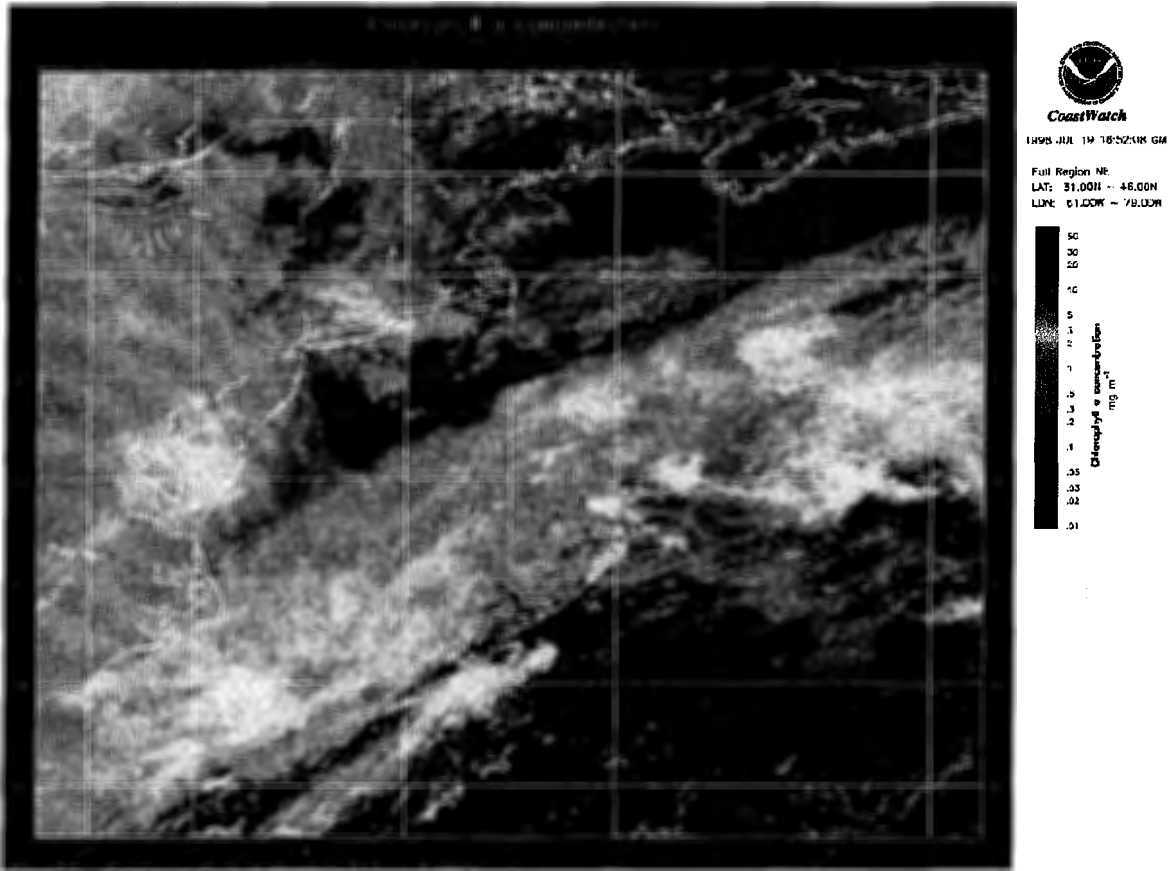


Figure I-14. Chlorophyll a Concentration from July 19, 1998

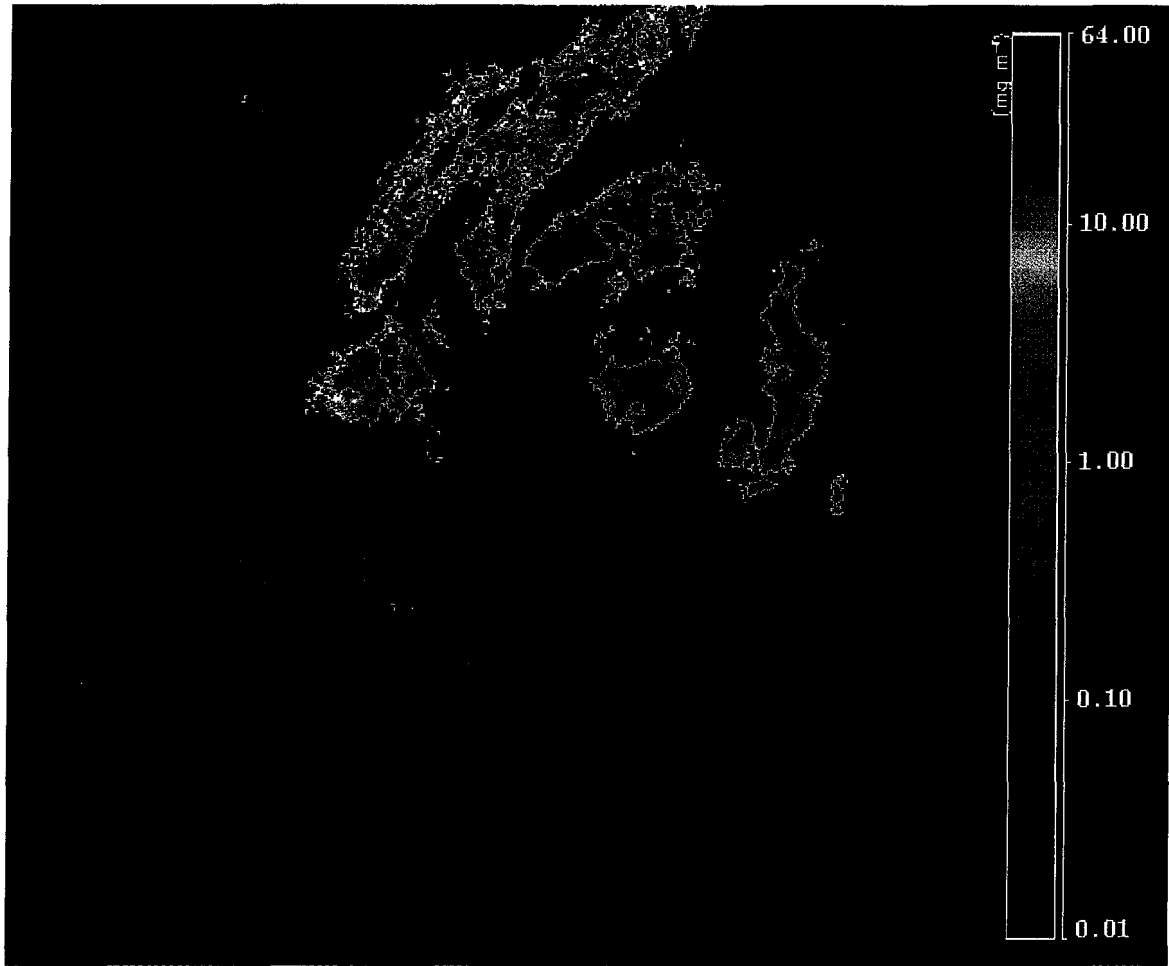


Figure I-15. Chlorophyll a Concentration from July 22, 1998

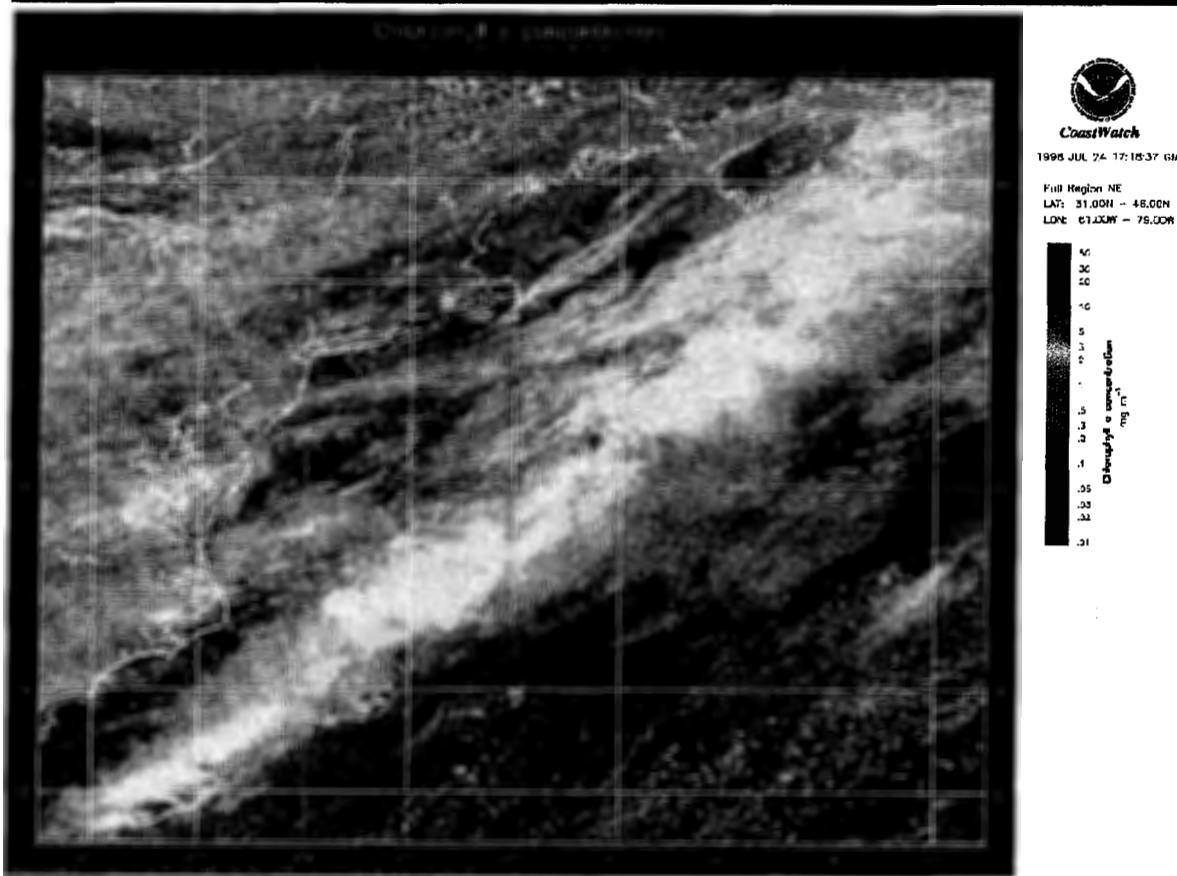


Figure I-16. Chlorophyll a Concentration from July 24, 1998

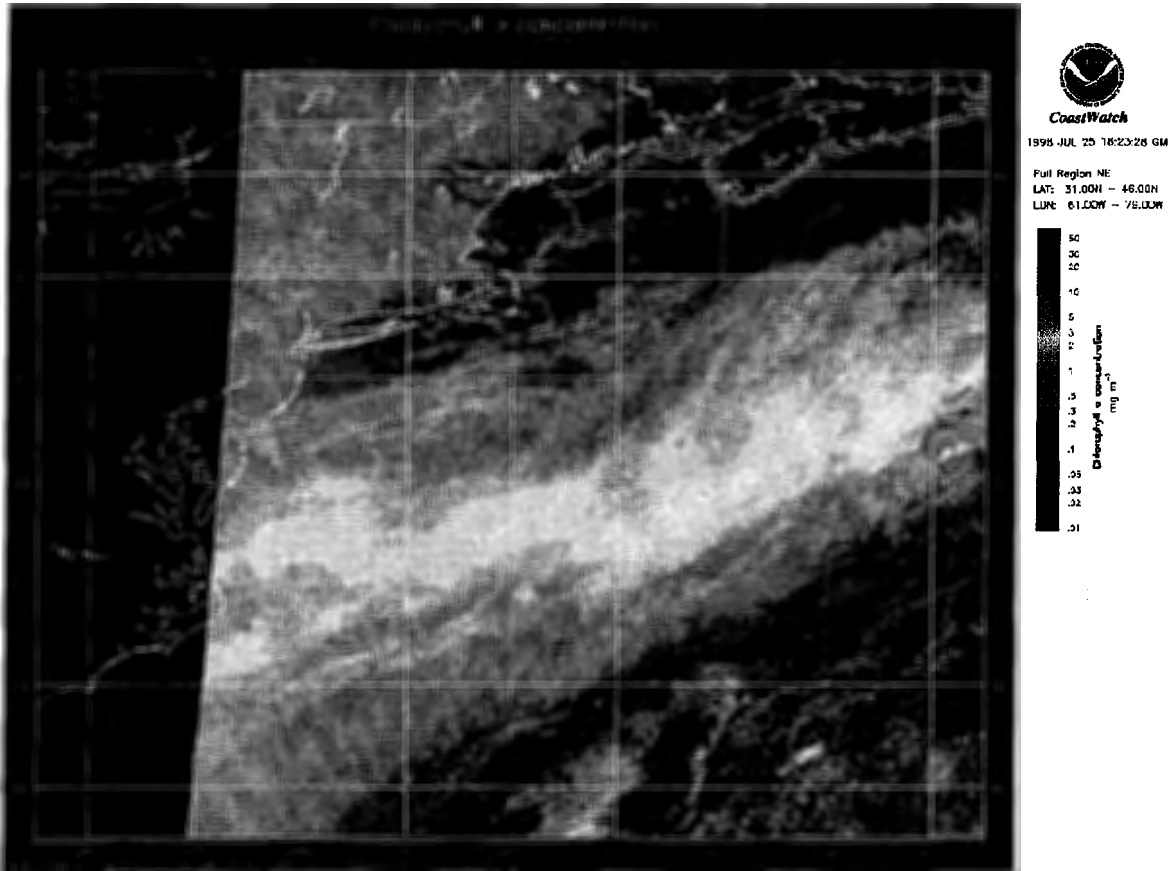


Figure I-17. Chlorophyll a Concentration from July 25, 1998

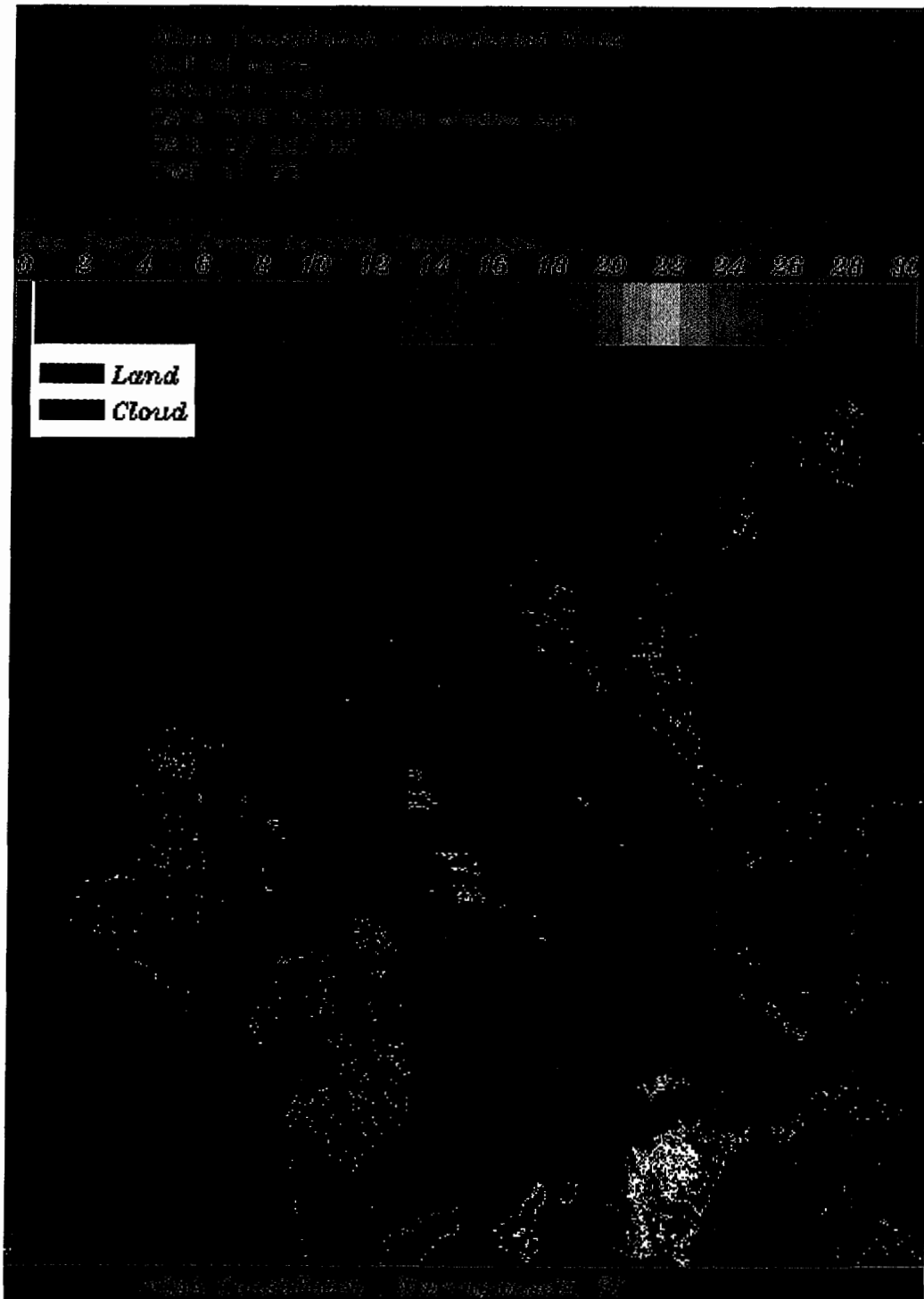


Figure I-18. Sea Surface Temperature from February 26, 1998 11:20

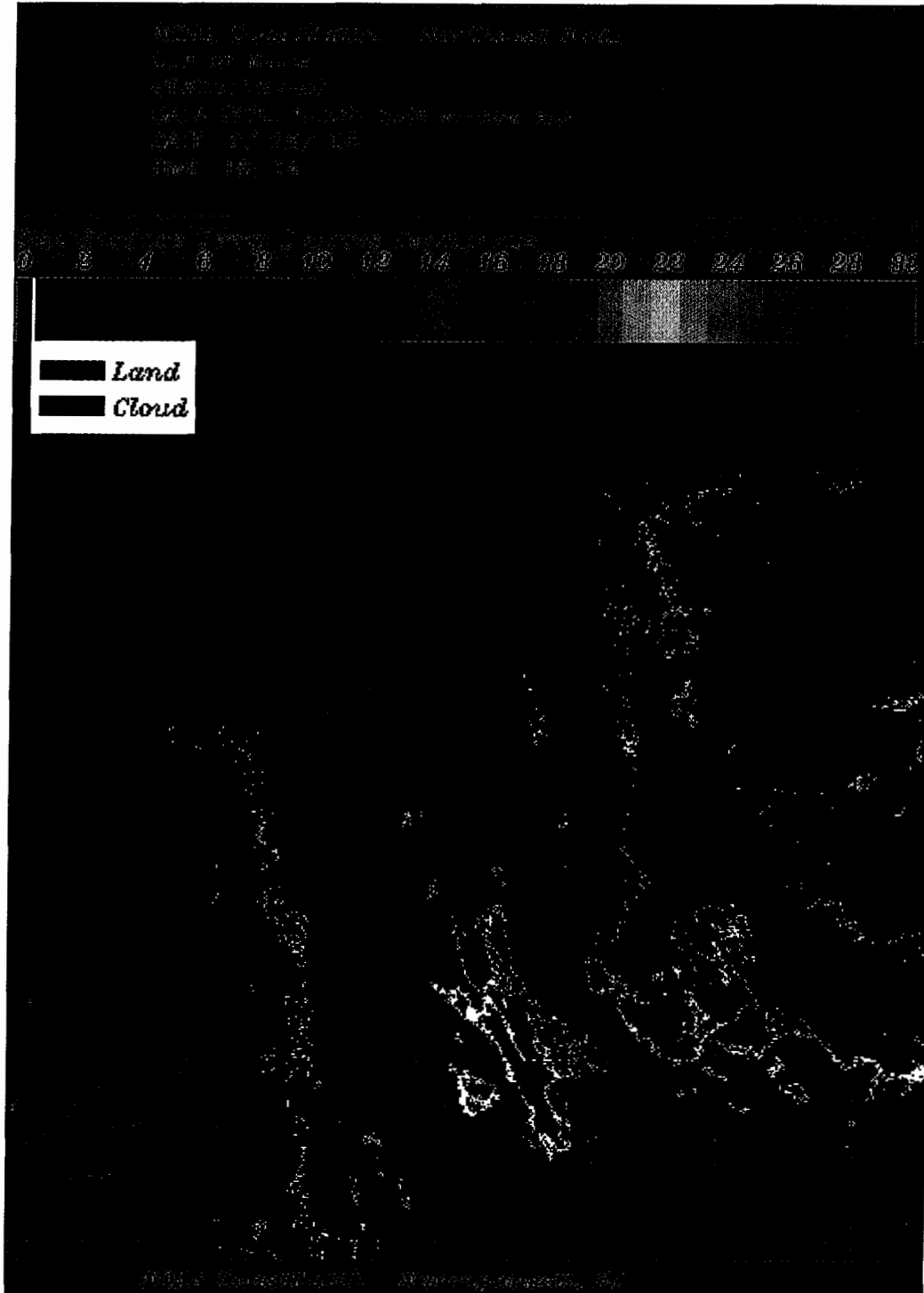


Figure I-19. Sea Surface Temperature from February 26, 1998 18:14

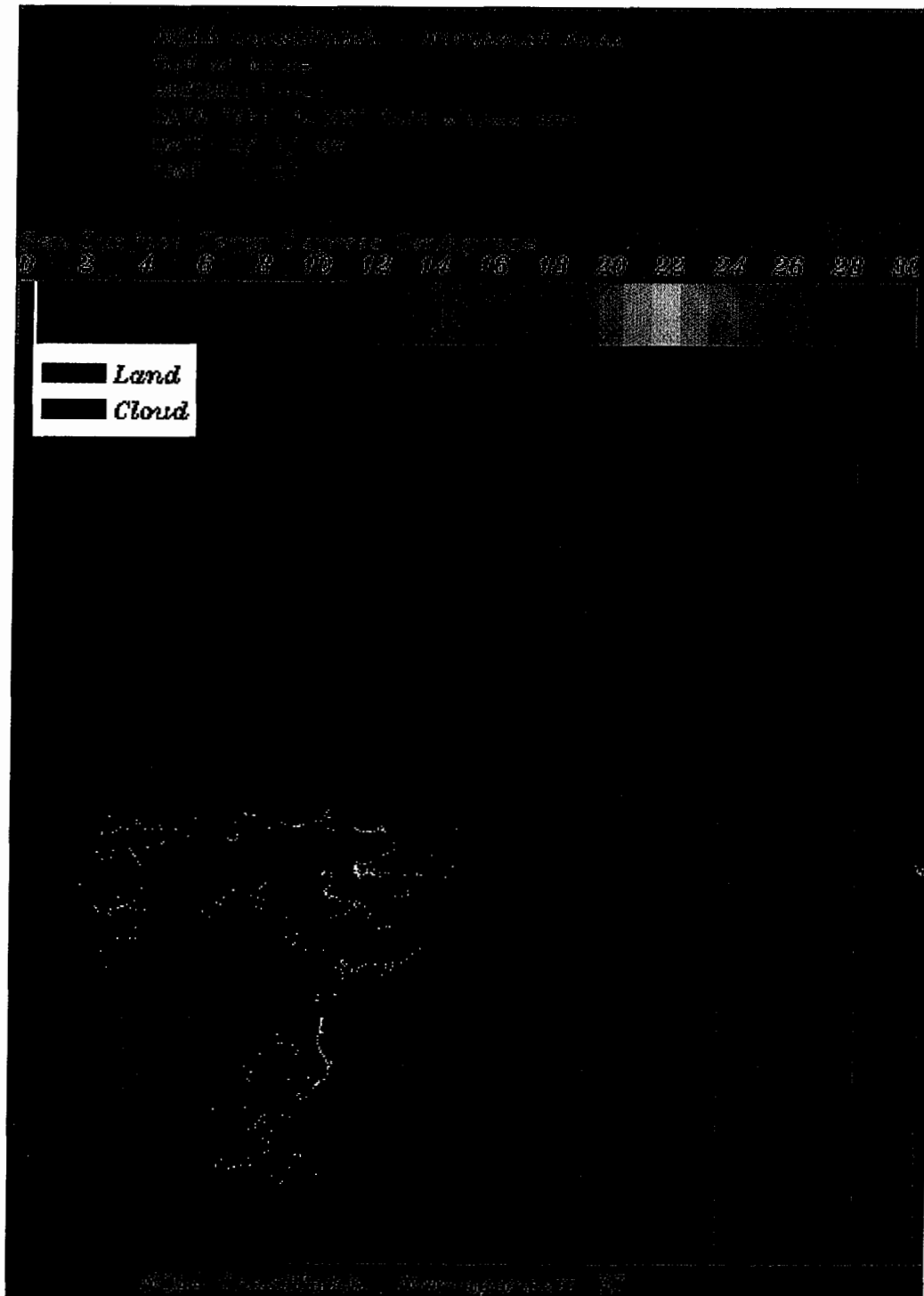


Figure I-20. Sea Surface Temperature from March 1, 1998 11:57

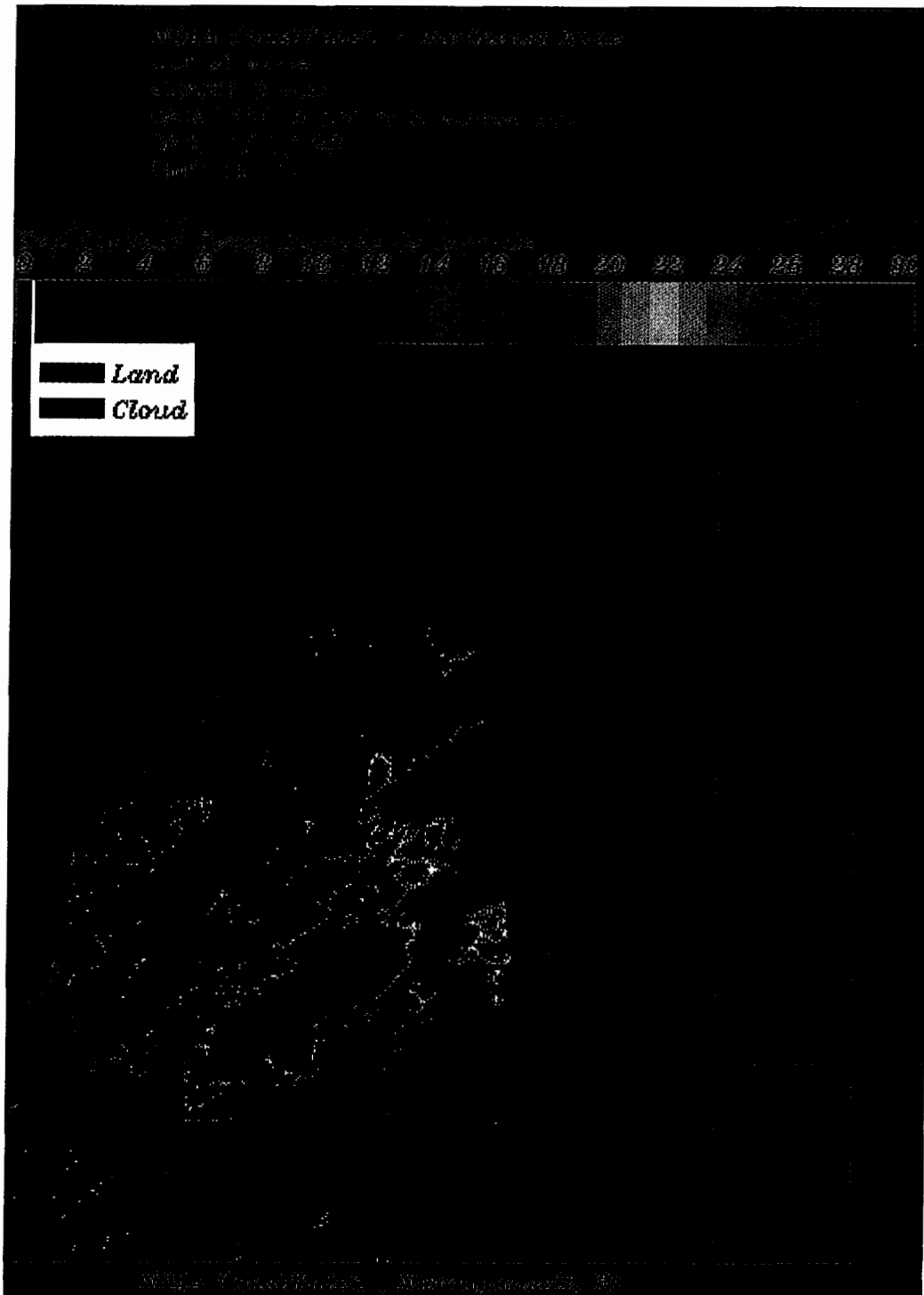


Figure I-21. Sea Surface Temperature from March 2, 1998 19:11

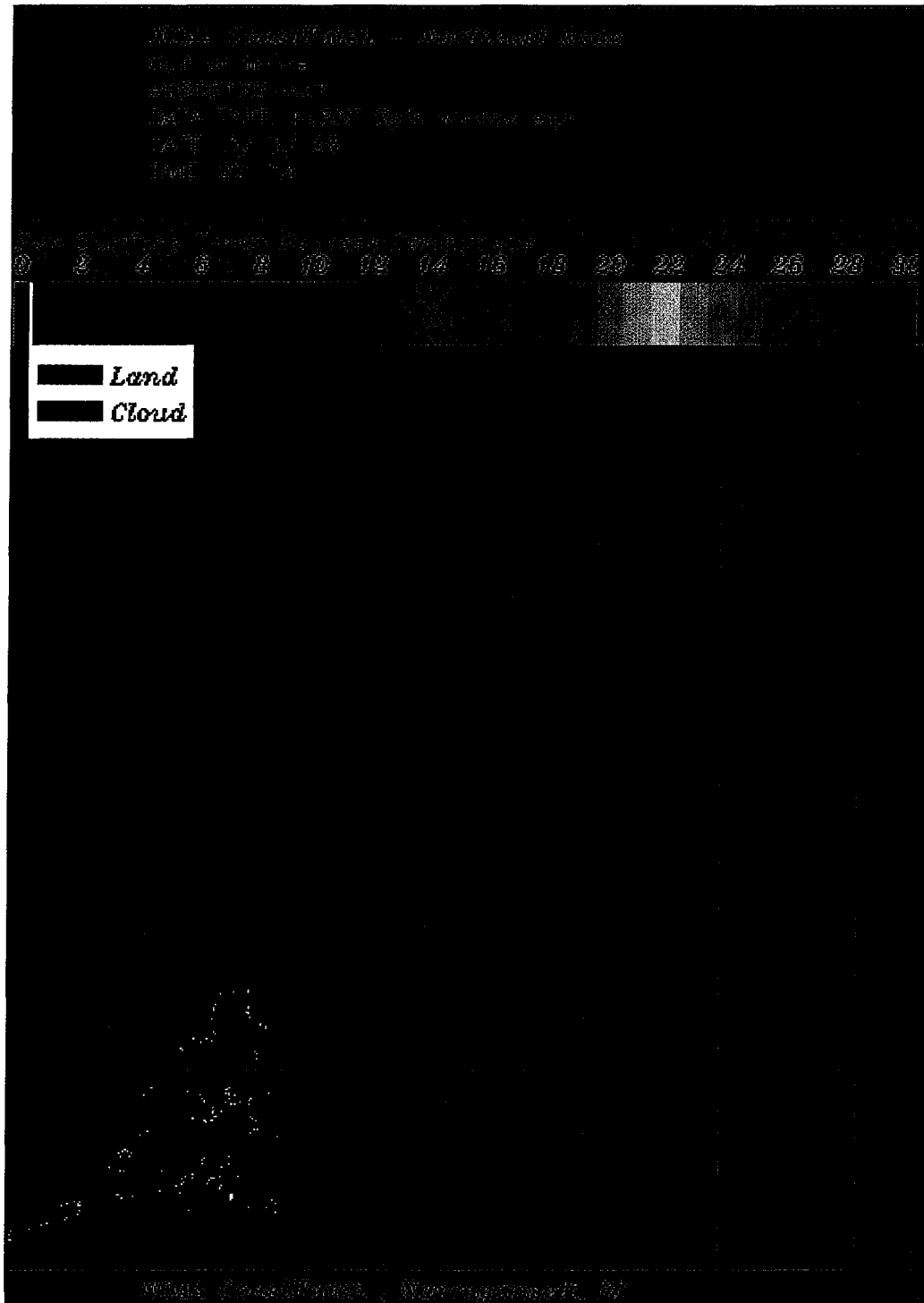


Figure I-22. Sea Surface Temperature from March 2, 1998 22:54

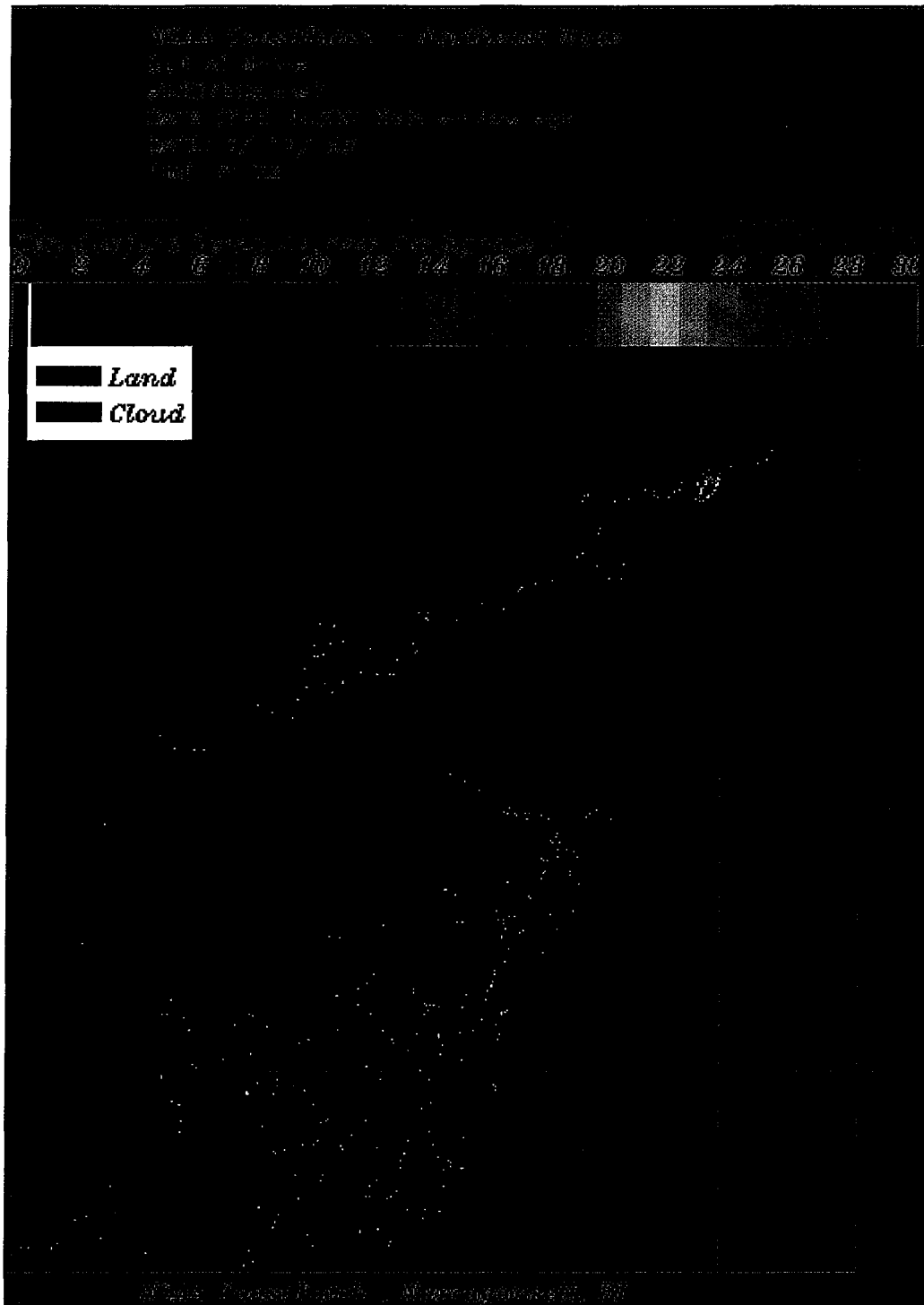


Figure I-23. Sea Surface Temperature from March 17, 1998 8:22

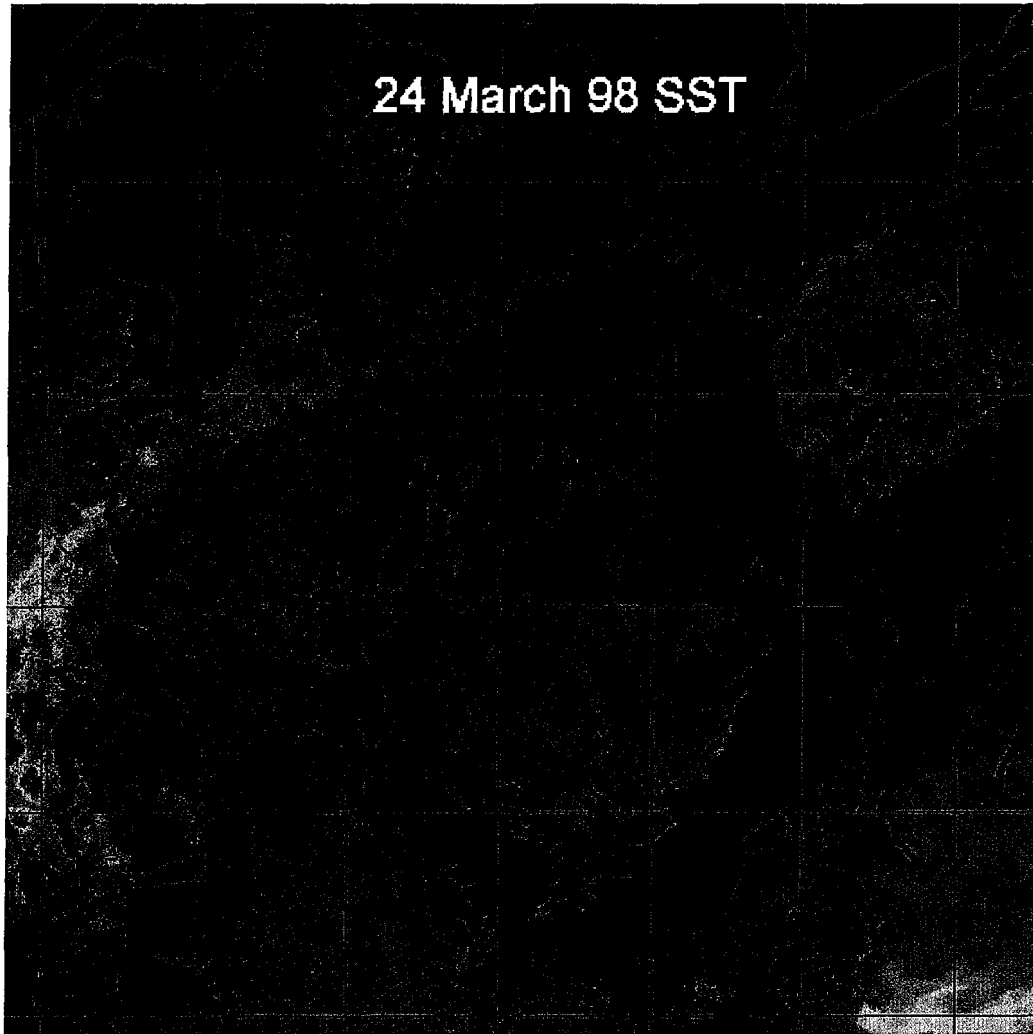


Figure I-24. Sea Surface Temperature from March 24, 1998

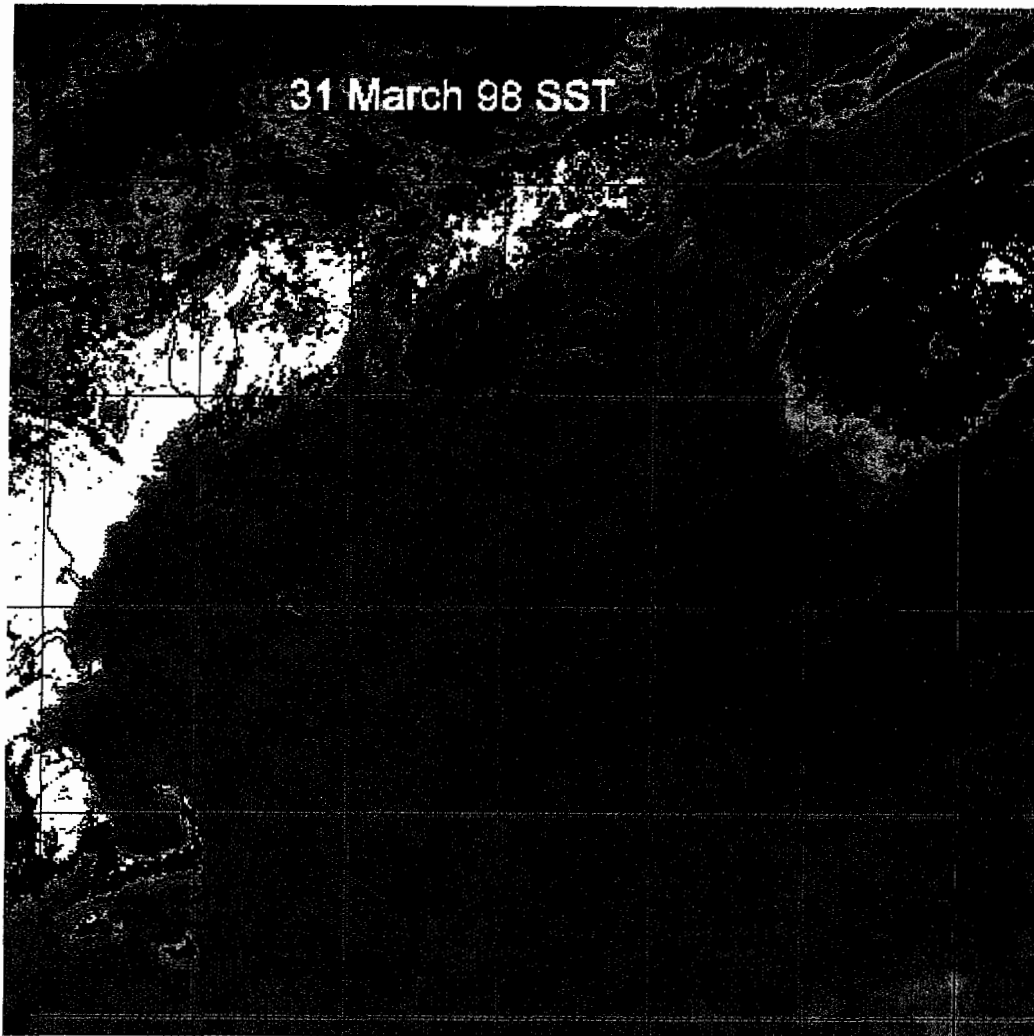


Figure I-25. Sea Surface Temperature from March 31, 1998

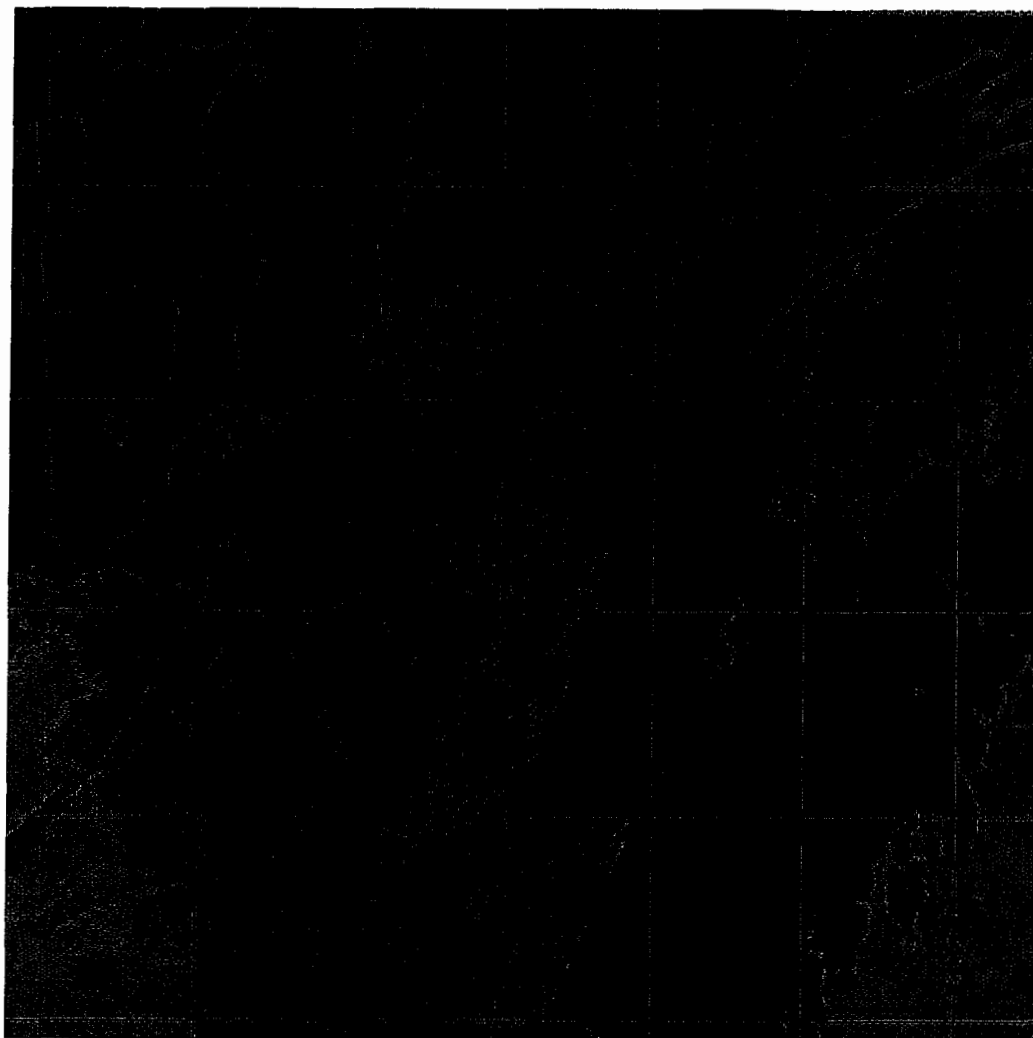


Figure I-26. Sea Surface Temperature from April 3, 1998

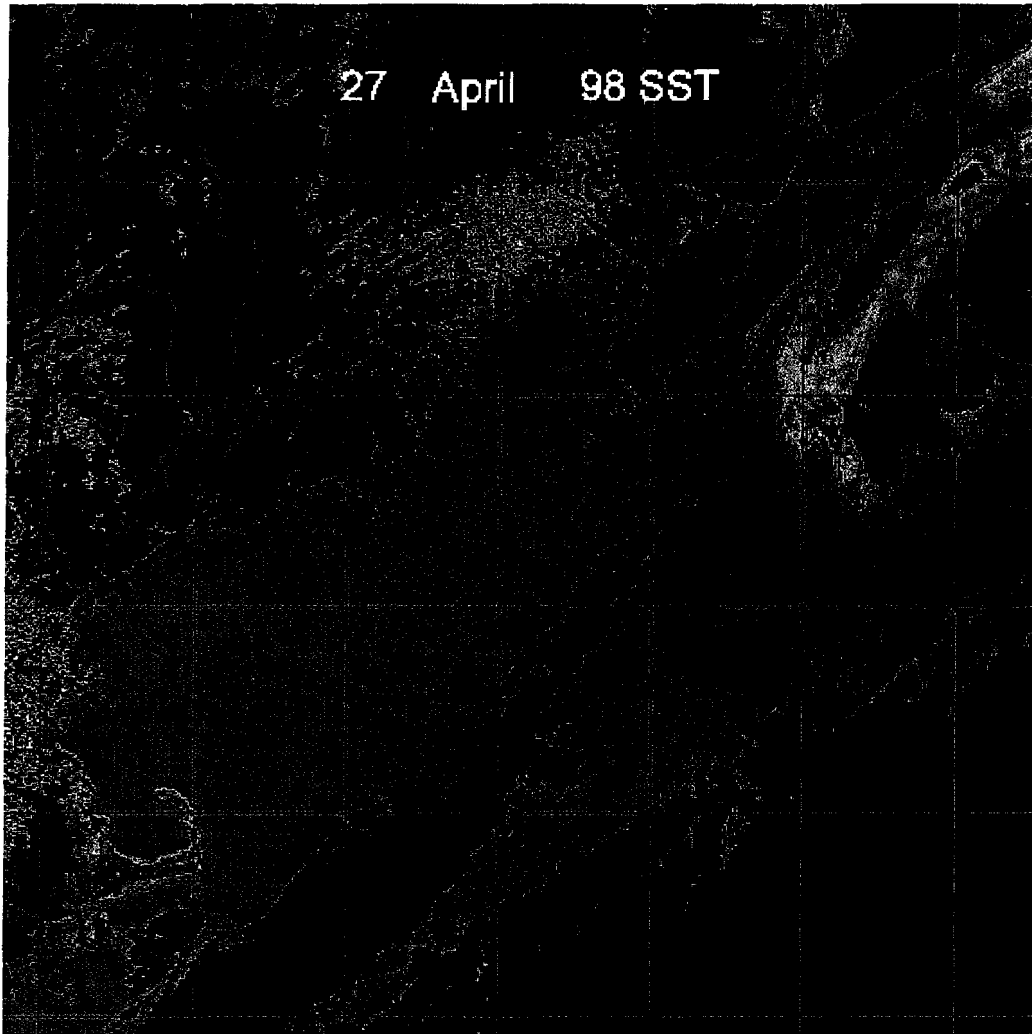


Figure I-27. Sea Surface Temperature from April 27, 1998

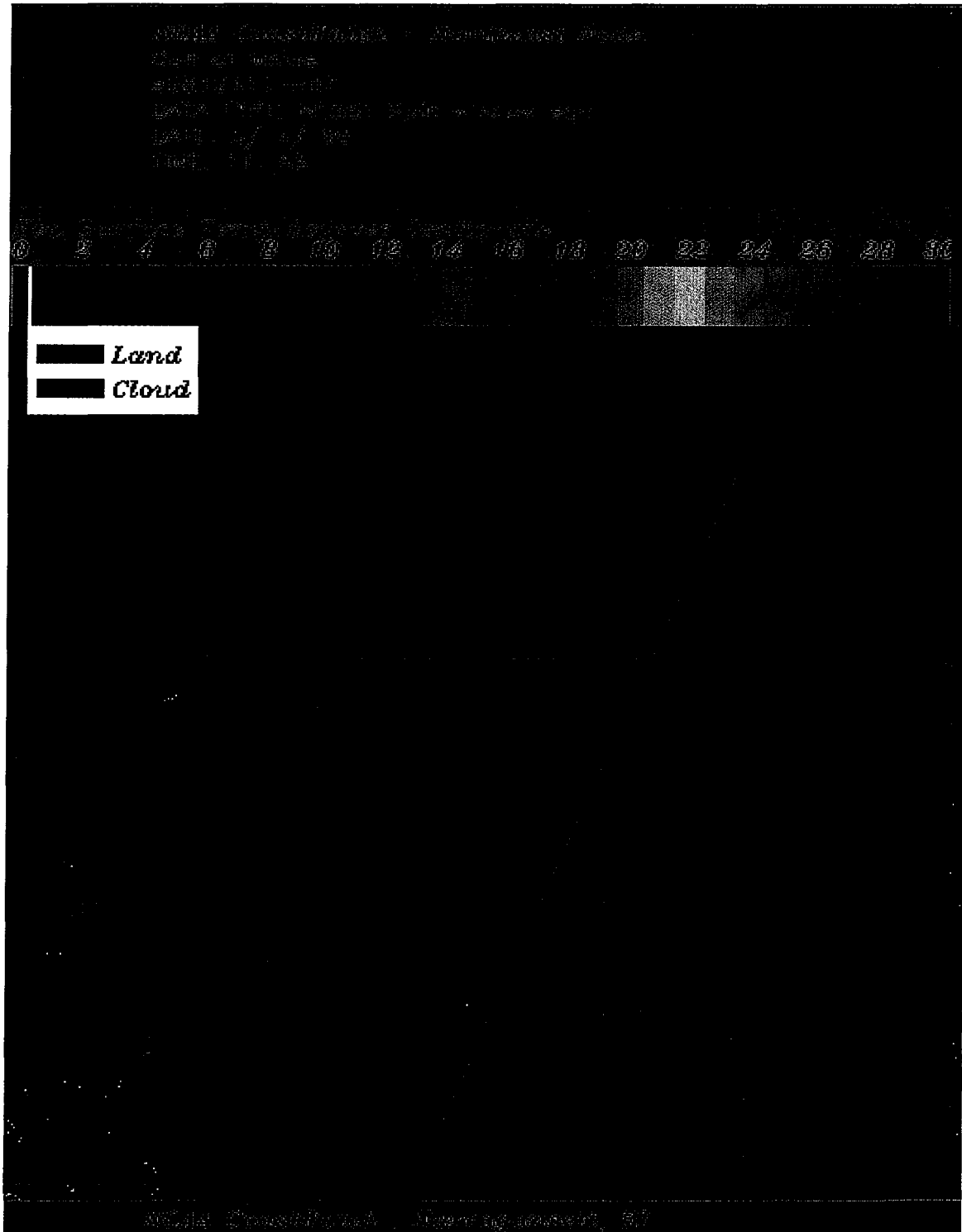


Figure I-28. Sea Surface Temperature from May 4, 1998 11:48

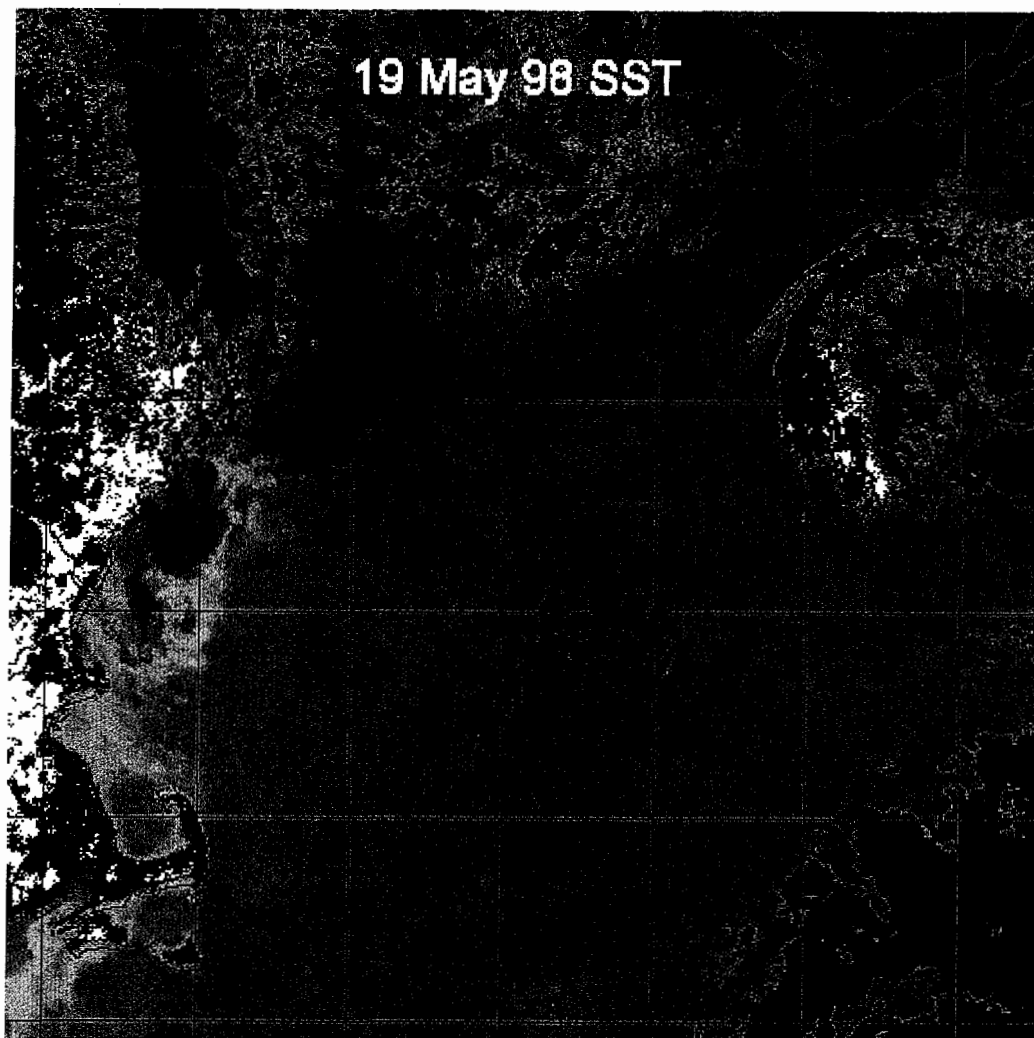


Figure I-29. Sea Surface Temperature from May 19, 1998

APPENDIX J
Secchi Disk Data

Survey ID	Station ID	Station Arrival Date and Time	Secchi Disk Depth (m)	Qualifier
WF981	F01	2/3/1998 11:38:07 AM	5	
WF981	F32	2/3/1998 12:46:00 PM	5	
WF981	F02	2/3/1998 1:35:59 PM	7	
WF981	F33	2/3/1998 3:00:27 PM	7	
WF981	F29	2/3/1998 4:08:31 PM	9	
WF981	F12	2/3/1998 6:03:37 PM		e
WF981	F28	2/3/1998 6:59:13 PM		e
WF981	F27	2/3/1998 8:11:00 PM		e
WF981	F26	2/3/1998 9:28:20 PM		e
WF981	F22	2/4/1998 6:47:48 AM		e
WF981	F19	2/4/1998 7:46:20 AM	6	
WF981	F17	2/4/1998 9:13:33 AM	6	
WF981	F16	2/4/1998 10:19:23 AM	6	
WF981	F15	2/4/1998 11:19:00 AM	5	
WF981	N16	2/4/1998 1:06:51 PM	7	
WF981	F18	2/7/1998 7:34:13 AM	3	
WF981	F24	2/7/1998 8:30:48 AM	3	
WF981	F14	2/7/1998 9:42:16 AM	2	
WF981	F25	2/7/1998 10:40:53 AM	2	
WF981	F31	2/7/1998 12:33:27 PM	2	
WF981	F30	2/7/1998 1:42:28 PM	3	
WF981	F23	2/9/1998 10:20:43 AM	1	
WF981	F13	2/10/1998 10:00:48 AM	3	
WF981	F10	2/10/1998 11:27:59 AM	10	
WF981	F07	2/10/1998 12:45:55 PM	6	
WF981	F06	2/10/1998 1:21:24 PM	2	
WF981	F05	2/10/1998 2:13:05 PM	8	
WF981	F03	2/10/1998 3:40:48 PM	3	
WF982	F02	2/27/1998 11:32:25 AM	5v	
WF982	F33	2/27/1998 1:18:04 PM	5v	
WF982	F29	2/27/1998 2:16:07 PM	7v	
WF982	F12	2/27/1998 4:06:18 PM	15v	
WF982	F28	2/27/1998 5:03:31 PM	7v	
WF982	F27	2/27/1998 6:53:33 PM		e
WF982	F26	2/27/1998 7:58:57 PM		e
WF982	F22	2/28/1998 8:55:31 AM	8v	
WF982	F19	2/28/1998 10:44:15 AM	9v	
WF982	F17	2/28/1998 11:51:13 AM	11v	
WF982	F10	2/28/1998 12:55:33 PM	13v	
WF982	F13	2/28/1998 1:52:07 PM	4v	
WF982	F14	2/28/1998 2:39:08 PM	4v	
WF982	F25	2/28/1998 3:25:21 PM	4v	
WF982	N16	2/28/1998 5:49:39 PM		e
WF982	F18	2/28/1998 7:04:13 PM		e
WF982	F24	2/28/1998 8:09:07 PM		e
WF982	F30	2/28/1998 9:15:01 PM		e

Appendix J

Survey ID	Station ID	Station Arrival Date and Time	Secchi Disk Depth (m)	Qualifier
WF982	F23	3/1/1998 6:55:15 AM	3	v
WF982	F31	3/2/1998 6:26:15 AM	3	v
WF982	F15	3/2/1998 7:40:31 AM	7	v
WF982	F16	3/2/1998 8:34:27 AM	13	v
WF982	F07	3/2/1998 9:53:02 AM	16	v
WF982	F06	3/2/1998 10:25:33 AM	13	v
WF982	F05	3/2/1998 11:13:28 AM	4	v
WF982	F03	3/2/1998 12:41:19 PM	4	v
WF982	F01	3/2/1998 1:36:10 PM	4	
WF984	F01	3/31/1998 9:43:10 AM	5	v
WF984	F32	3/31/1998 11:12:47 AM	6	v
WF984	F02	3/31/1998 11:53:20 AM	12	v
WF984	F33	3/31/1998 1:09:06 PM	10	v
WF984	F29	3/31/1998 1:56:13 PM	12	v
WF984	F12	3/31/1998 4:02:01 PM	13	v
WF984	F28	3/31/1998 5:01:10 PM	9	v
WF984	F18	4/1/1998 10:00:50 AM	8	v
WF984	F30	4/1/1998 12:18:17 PM	4	v
WF984	F23	4/2/1998 7:29:45 AM	3	v
WF984	N04	4/2/1998 9:03:26 AM	17	v
WF984	F24	4/3/1998 6:02:13 AM	7	v
WF984	N16	4/3/1998 7:05:57 AM	17	v
WF984	F22	4/3/1998 8:04:27 AM	18	v
WF984	F19	4/3/1998 8:43:10 AM	18	v
WF984	F17	4/3/1998 9:31:02 AM	16	v
WF984	F16	4/3/1998 10:06:21 AM	16	v
WF984	F15	4/3/1998 10:38:54 AM	14	v
WF984	F14	4/3/1998 11:13:42 AM	8	v
WF984	F13	4/3/1998 11:51:09 AM	6	v
WF984	F10	4/3/1998 12:29:42 PM	17	v
WF984	F07	4/3/1998 1:20:34 PM	18	v
WF984	F06	4/3/1998 1:50:02 PM	14	v
WF984	F05	4/3/1998 2:25:26 PM	8	v
WF984	F03	4/3/1998 3:49:14 PM	8	v
WF987	F03	6/16/1998 9:26:08 AM	6	v
WF987	F01	6/16/1998 10:35:49 AM	8	v
WF987	F02	6/16/1998 12:14:55 PM	8	v
WF987	F29	6/16/1998 2:00:09 PM	11	v
WF987	F07	6/16/1998 3:15:58 PM	8	v
WF987	F06	6/16/1998 3:54:00 PM		e
WF987	F05	6/16/1998 4:50:01 PM	8	v
WF987	F31	6/16/1998 7:01:33 PM	6	v
WF987	F14	6/17/1998 11:56:51 AM	3	v
WF987	F13	6/17/1998 12:27:37 PM	4	v
WF987	F10	6/17/1998 1:27:56 PM	7	v
WF987	F17	6/17/1998 2:36:29 PM	9	v
WF987	F16	6/17/1998 3:10:00 PM	7	v

Survey ID	Station ID	Station Arrival Date and Time	Secchi Disk Depth (m)	Qualifier
WF987	F15	6/17/1998 3:55:18 PM	6	v
WF987	F12	6/18/1998 8:34:49 AM	15	v
WF987	F28	6/18/1998 9:22:36 AM	10	v
WF987	F27	6/18/1998 10:43:55 AM	11	v
WF987	F26	6/18/1998 11:45:56 AM	3	v
WF987	F19	6/18/1998 1:02:43 PM	11	v
WF987	F24	6/18/1998 2:29:06 PM	3	v
WF987	F30	6/18/1998 3:22:53 PM	3	v
WF987	F18	6/19/1998 8:48:07 AM	3	v
WF987	F22	6/19/1998 10:36:51 AM	3	v
WF987	F25	6/19/1998 4:00:34 PM	3	v
WF987	F23	6/22/1998 6:27:09 AM		e
WF987	N16	6/22/1998 4:58:43 PM	8	v

e- Results not reported, value given is null

v- Arithmetic mean

APPENDIX K

Estimated Carbon Equivalence Data

Survey	Sta.	Sample Number	Depth (m)	Sampling Date	Plankton	Estimated Carbon Equivalence (ng Carbon/L)
WF981	F01	WF98104A	12.41	2/2/98	CERATIUM FUSUS	30.33
WF981	F01	WF98104A	12.41	2/2/98	CERATIUM TRIPOS	38.85
WF981	F01	WF98104A	12.41	2/2/98	DISTEPHANUS SPECULUM	105.87
WF981	F01	WF98104A	12.41	2/2/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	585.45
WF981	F01	WF98104A	12.41	2/2/98	CHAETOCEROS SPP.(<10UM)	375.09
WF981	F01	WF98104A	12.41	2/2/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	976.76
WF981	F01	WF98104A	12.41	2/2/98	CRYPTOMONAS SP. GROUP 2 LENGTH >10 MICRONS	418.18
WF981	F01	WF98104A	12.41	2/2/98	CYLINDROTHECA CLOSTERIUM	2770.19
WF981	F01	WF98104A	12.41	2/2/98	DICTYOCHA SPECULUM	NA
WF981	F01	WF98104A	12.41	2/2/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	2160.25
WF981	F01	WF98104A	12.41	2/2/98	GYRODINIUM SP. GROUP 1 5-20UM W 10-20UM L	1080.12
WF981	F01	WF98104A	12.41	2/2/98	PARALIA SULCATA	802.17
WF981	F01	WF98104A	12.41	2/2/98	PENNATE DIATOMS SP. GROUP 8 10-20 MICRONS LENGTH	NA
WF981	F01	WF98104A	12.41	2/2/98	PYRAMIMONAS SP. GROUP 1 10-20 MICRONS LENGTH	NA
WF981	F01	WF98104A	12.41	2/2/98	SKELETONEMA COSTATUM GREV+CLEVE	83255.53
WF981	F01	WF98104A	12.41	2/2/98	THALASSIONEMA NITZSCHIOIDES	881.56
WF981	F01	WF98104A	12.41	2/2/98	THALASSIOSIRA ROTULA	13315.58
WF981	F01	WF98104A	12.41	2/2/98	THALASSIOSIRA SP. GROUP 3 10-20 MICRONS LENGTH	1600.17
WF981	F01	WF98104A	12.41	2/2/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	60738.27
WF981	F01	WF98104A	12.41	2/2/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	16485.66
WF981	F01	WF98104C	3.32	2/2/98	CERATIUM LONGIPES	61.46
WF981	F01	WF98104C	3.32	2/2/98	CERATIUM TRIPOS	94.77
WF981	F01	WF98104C	3.32	2/2/98	DINOPHYSIS ACUTA	26.47
WF981	F01	WF98104C	3.32	2/2/98	DISTEPHANUS SPECULUM	10.51
WF981	F01	WF98104C	3.32	2/2/98	MESODINIUM RUBRUM	NA
WF981	F01	WF98104C	3.32	2/2/98	PROROCENTRUM MICANS	3.86
WF981	F01	WF98104C	3.32	2/2/98	PROTOPERIDINIUM PELLUCIDUM	37.65
WF981	F01	WF98104C	3.32	2/2/98	PROTOPERIDINIUM SPP.	19.73
WF981	F01	WF98104C	3.32	2/2/98	CHAETOCEROS SPP. (10-20UM)	NA
WF981	F01	WF98104C	3.32	2/2/98	CHAETOCEROS SPP.(<10UM)	208.44
WF981	F01	WF98104C	3.32	2/2/98	CORETHRON CRIOPHILUM	11516.40
WF981	F01	WF98104C	3.32	2/2/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	1302.35
WF981	F01	WF98104C	3.32	2/2/98	CRYPTOMONAS SP. GROUP 2 LENGTH >10 MICRONS	836.36
WF981	F01	WF98104C	3.32	2/2/98	CYLINDROTHECA CLOSTERIUM	9233.98
WF981	F01	WF98104C	3.32	2/2/98	DICTYOCHA SPECULUM	NA
WF981	F01	WF98104C	3.32	2/2/98	EUTREPTIA/EUTREPTIELLA SPP.	NA
WF981	F01	WF98104C	3.32	2/2/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	809.90
WF981	F01	WF98104C	3.32	2/2/98	GYRODINIUM SP. GROUP 1 5-20UM W 10-20UM L	2160.25
WF981	F01	WF98104C	3.32	2/2/98	HETEROCAPSA ROTUNDATA	159.38
WF981	F01	WF98104C	3.32	2/2/98	LEPTOCYLINDRUS MINIMUS	196.97
WF981	F01	WF98104C	3.32	2/2/98	PROROCENTRUM MINIMUM	580.93
WF981	F01	WF98104C	3.32	2/2/98	PSEUDONITZSCHIA PUNGENS	379.14
WF981	F01	WF98104C	3.32	2/2/98	PYRAMIMONAS SP. GROUP 1 10-20 MICRONS LENGTH	NA
WF981	F01	WF98104C	3.32	2/2/98	RHIZOLENIA SETIGERA	5276.82
WF981	F01	WF98104C	3.32	2/2/98	SKELETONEMA COSTATUM GREV+CLEVE	96674.53
WF981	F01	WF98104C	3.32	2/2/98	THALASSIONEMA NITZSCHIOIDES	1259.37
WF981	F01	WF98104C	3.32	2/2/98	THALASSIOSIRA ROTULA	16644.48
WF981	F01	WF98104C	3.32	2/2/98	THALASSIOSIRA SP. GROUP 3 10-20 MICRONS LENGTH	2400.26
WF981	F01	WF98104C	3.32	2/2/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	65136.56

Survey	Sta.	Sample Number	Depth (m)	Sampling Date	Plankton	Estimated Carbon Equivalence (ng Carbon/L)
WF981	F01	WF98104C	3.32	2/2/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	22826.29
WF981	F02	WF98106E	19.29	2/2/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	351.27
WF981	F02	WF98106E	19.29	2/2/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	2422.36
WF981	F02	WF98106E	19.29	2/2/98	CRYPTOMONAS SP. GROUP 2 LENGTH >10 MICRONS	2007.26
WF981	F02	WF98106E	19.29	2/2/98	CYLINDROTHECA CLOSTERIUM	923.62
WF981	F02	WF98106E	19.29	2/2/98	DICTYOGA SPECULUM	NA
WF981	F02	WF98106E	19.29	2/2/98	EUTREPTIA/EUTREPTIELLA SPP.	NA
WF981	F02	WF98106E	19.29	2/2/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	5184.59
WF981	F02	WF98106E	19.29	2/2/98	GYRODINIUM GLAUCUM	NA
WF981	F02	WF98106E	19.29	2/2/98	PENNATE DIATOMS SP. GROUP 7 20-30 MICRONS LENGTH	NA
WF981	F02	WF98106E	19.29	2/2/98	PLEUROSIGMA SPP.	5081.45
WF981	F02	WF98106E	19.29	2/2/98	POROSIRA GLACIALIS	NA
WF981	F02	WF98106E	19.29	2/2/98	SKELETONEMA COSTATUM GREV+CLEVE	1904.63
WF981	F02	WF98106E	19.29	2/2/98	THALASSIONEMA NITZSCHIOIDES	1637.18
WF981	F02	WF98106E	19.29	2/2/98	THALASSIOSIRA SP. GROUP 4 20-30 MICRONS LENGTH	1596.55
WF981	F02	WF98106E	19.29	2/2/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	49637.83
WF981	F02	WF98106E	19.29	2/2/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	15978.41
WF981	F02	WF98106E	19.29	2/2/98	ATHECATE DINOFLAGELLATE	NA
WF981	F02	WF98106E	19.29	2/2/98	CERATIUM FUSUS	29.59
WF981	F02	WF98106E	19.29	2/2/98	CERATIUM LONGIPES	24.59
WF981	F02	WF98106E	19.29	2/2/98	DISTEPHANUS SPECULUM	24.62
WF981	F02	WF98106E	19.29	2/2/98	GYMNODINIUM SPP.	5.32
WF981	F02	WF98106E	19.29	2/2/98	MESODINIUM RUBRUM	NA
WF981	F02	WF98106E	19.29	2/2/98	PROTOPIRIDINIUM PELLUCIDUM	15.06
WF981	F02	WF98106E	19.29	2/2/98	PROTOPIRIDINIUM SPP.	7.89
WF981	F02	WF981071	3.18	2/2/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	125.45
WF981	F02	WF981071	3.18	2/2/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	1709.33
WF981	F02	WF981071	3.18	2/2/98	CRYPTOMONAS SP. GROUP 2 LENGTH >10 MICRONS	2822.72
WF981	F02	WF981071	3.18	2/2/98	DICTYOGA SPECULUM	NA
WF981	F02	WF981071	3.18	2/2/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	1620.18
WF981	F02	WF981071	3.18	2/2/98	HETEROCAPSA ROTUNDATA	478.27
WF981	F02	WF981071	3.18	2/2/98	SKELETONEMA COSTATUM GREV+CLEVE	1876.22
WF981	F02	WF981071	3.18	2/2/98	THALASSIONEMA NITZSCHIOIDES	944.75
WF981	F02	WF981071	3.18	2/2/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	64403.51
WF981	F02	WF981071	3.18	2/2/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	3804.38
WF981	F02	WF981071	3.18	2/2/98	CERATIUM TRIPOS	36.96
WF981	F02	WF981071	3.18	2/2/98	DISTEPHANUS SPECULUM	18.74
WF981	F27	WF9810B1	50.02	2/2/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	460.00
WF981	F27	WF9810B1	50.02	2/2/98	CERATIUM TRIPOS	19071.03
WF981	F27	WF9810B1	50.02	2/2/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	325.59
WF981	F27	WF9810B1	50.02	2/2/98	CRYPTOMONAS SP. GROUP 2 LENGTH >10 MICRONS	627.27
WF981	F27	WF9810B1	50.02	2/2/98	CYLINDROTHECA CLOSTERIUM	2308.49
WF981	F27	WF9810B1	50.02	2/2/98	DICTYOGA SPECULUM	NA
WF981	F27	WF9810B1	50.02	2/2/98	GYRODINIUM SPIRALE	21936.36
WF981	F27	WF9810B1	50.02	2/2/98	PENNATE DIATOMS SP. GROUP 8 10-20 MICRONS LENGTH	NA
WF981	F27	WF9810B1	50.02	2/2/98	POROSIRA GLACIALIS	NA
WF981	F27	WF9810B1	50.02	2/2/98	PYRAMIMONAS SP. GROUP 1 10-20 MICRONS LENGTH	NA
WF981	F27	WF9810B1	50.02	2/2/98	THALASSIONEMA NITZSCHIOIDES	104.95
WF981	F27	WF9810B1	50.02	2/2/98	THALASSIOSIRA ROTULA	3699.66

Survey	Sta.	Sample Number	Depth (m)	Sampling Date	Plankton	Estimated Carbon Equivalence (ng Carbon/L)
WF981	F27	WF9810B1	50.02	2/2/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	30369.14
WF981	F27	WF9810B1	50.02	2/2/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	10779.08
WF981	F27	WF9810B1	50.02	2/2/98	CERATIUM LONGIPES	125.39
WF981	F27	WF9810B1	50.02	2/2/98	CERATIUM SPP.	22.09
WF981	F27	WF9810B1	50.02	2/2/98	CERATIUM TRIPOS	64.44
WF981	F27	WF9810B1	50.02	2/2/98	DISTEPHANUS SPECULUM	17.35
WF981	F27	WF9810B1	50.02	2/2/98	MESODINIUM RUBRUM	NA
WF981	F27	WF9810B3	3.61	2/2/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	920.00
WF981	F27	WF9810B3	3.61	2/2/98	CHAETOCEROS COMPRESSUS	7741.31
WF981	F27	WF9810B3	3.61	2/2/98	CHAETOCEROS SPP. (10-20UM)	NA
WF981	F27	WF9810B3	3.61	2/2/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	1562.82
WF981	F27	WF9810B3	3.61	2/2/98	CRYPTOMONAS SP. GROUP 2 LENGTH >10 MICRONS	1672.72
WF981	F27	WF9810B3	3.61	2/2/98	CYLINDROTHECA CLOSTERIUM	2885.62
WF981	F27	WF9810B3	3.61	2/2/98	DETONULA CONFERVACEA	962.11
WF981	F27	WF9810B3	3.61	2/2/98	DICTYOCHA SPECULUM	NA
WF981	F27	WF9810B3	3.61	2/2/98	EUTREPTIA/EUTREPTIELLA SPP.	NA
WF981	F27	WF9810B3	3.61	2/2/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	2160.25
WF981	F27	WF9810B3	3.61	2/2/98	HETEROCAPSA ROTUNDATA	159.38
WF981	F27	WF9810B3	3.61	2/2/98	HETEROCAPSA TRIQUETRA	11411.94
WF981	F27	WF9810B3	3.61	2/2/98	LAUDERIA ANNULATA	NA
WF981	F27	WF9810B3	3.61	2/2/98	PENNATE DIATOMS SP. GROUP 7 20-30 MICRONS LENGTH	NA
WF981	F27	WF9810B3	3.61	2/2/98	PROROCENTRUM MINIMUM	580.93
WF981	F27	WF9810B3	3.61	2/2/98	PYRAMIMONAS SP. GROUP 1 10-20 MICRONS LENGTH	NA
WF981	F27	WF9810B3	3.61	2/2/98	RHIZOLENIA DELICATULA	2560.66
WF981	F27	WF9810B3	3.61	2/2/98	SKELETONEMA COSTATUM GREV+CLEVE	962.17
WF981	F27	WF9810B3	3.61	2/2/98	THALASSIONEMA NITZSCHIOIDES	839.78
WF981	F27	WF9810B3	3.61	2/2/98	THALASSIOSIRA ROTULA	24966.72
WF981	F27	WF9810B3	3.61	2/2/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	61157.16
WF981	F27	WF9810B3	3.61	2/2/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	11413.15
WF981	F27	WF9810B3	3.61	2/2/98	CERATIUM LONGIPES	49.17
WF981	F27	WF9810B3	3.61	2/2/98	CERATIUM SPP.	12.99
WF981	F27	WF9810B3	3.61	2/2/98	CERATIUM TRIPOS	151.63
WF981	F27	WF9810B3	3.61	2/2/98	DICTYOCHA FIBULA	3.13
WF981	F27	WF9810B3	3.61	2/2/98	DISTEPHANUS SPECULUM	10.21
WF981	N16	WF981108	18.66	2/3/98	ACHNANTHES SPP.	267.03
WF981	N16	WF981108	18.66	2/3/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	602.18
WF981	N16	WF981108	18.66	2/3/98	CHAETOCEROS SPP. (10-20UM)	NA
WF981	N16	WF981108	18.66	2/3/98	CHAETOCEROS SPP. (<10UM)	250.12
WF981	N16	WF981108	18.66	2/3/98	CORETHRON CRIOPHILUM	9213.12
WF981	N16	WF981108	18.66	2/3/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	3360.05
WF981	N16	WF981108	18.66	2/3/98	CRYPTOMONAS SP. GROUP 2 LENGTH >10 MICRONS	1254.54
WF981	N16	WF981108	18.66	2/3/98	CYLINDROTHECA CLOSTERIUM	6925.48
WF981	N16	WF981108	18.66	2/3/98	DICTYOCHA SPECULUM	NA
WF981	N16	WF981108	18.66	2/3/98	EUTREPTIA/EUTREPTIELLA SPP.	NA
WF981	N16	WF981108	18.66	2/3/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	7128.81
WF981	N16	WF981108	18.66	2/3/98	GYRODINIUM SP. GROUP 1 5-20UM W 10-20UM L	2591.67
WF981	N16	WF981108	18.66	2/3/98	HETEROCAPSA ROTUNDATA	255.01
WF981	N16	WF981108	18.66	2/3/98	NITZSCHIA SPP.	779.89
WF981	N16	WF981108	18.66	2/3/98	PENNATE DIATOMS SP. GROUP 7 20-30 MICRONS LENGTH	NA
WF981	N16	WF981108	18.66	2/3/98	THALASSIONEMA NITZSCHIOIDES	1259.37

Survey	Sta.	Sample Number	Depth (m)	Sampling Date	Plankton	Estimated Carbon Equivalence (ng Carbon/L)
WF981	N16	WF981108	18.66	2/3/98	THALASSIOSIRA ROTULA	33288.96
WF981	N16	WF981108	18.66	2/3/98	THALASSIOSIRA SP. GROUP 3 10-20 MICRONS LENGTH	640.07
WF981	N16	WF981108	18.66	2/3/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	47752.85
WF981	N16	WF981108	18.66	2/3/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	4565.26
WF981	N16	WF981108	18.66	2/3/98	CERATIUM SPP.	80.55
WF981	N16	WF981108	18.66	2/3/98	CERATIUM TRIPOS	176.27
WF981	N16	WF981108	18.66	2/3/98	DISTEPHANUS SPECULUM	30.72
WF981	N16	WF981108	18.66	2/3/98	MESODINIUM RUBRUM	NA
WF981	N16	WF981108	18.66	2/3/98	PROTOPERIDIUM DEPRESSUM	186.98
WF981	N16	WF98110A	4.08	2/3/98	CALYCOMONAS OVALIS	116.40
WF981	N16	WF98110A	4.08	2/3/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	2383.63
WF981	N16	WF98110A	4.08	2/3/98	CHAETOCEROS SPP. (10-20UM)	NA
WF981	N16	WF98110A	4.08	2/3/98	COCCONEIS SCUTELLUM EHRENB.	2328.37
WF981	N16	WF98110A	4.08	2/3/98	CORETHRON CRIOPHILUM	18426.24
WF981	N16	WF98110A	4.08	2/3/98	COSCINODISCUS SPP.	10767.92
WF981	N16	WF98110A	4.08	2/3/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	4004.72
WF981	N16	WF98110A	4.08	2/3/98	CRYPTOMONAS SP. GROUP 2 LENGTH >10 MICRONS	5018.16
WF981	N16	WF98110A	4.08	2/3/98	CYLINDROTHECA CLOSTERIUM	10619.08
WF981	N16	WF98110A	4.08	2/3/98	DICTYOCHA SPECULUM	NA
WF981	N16	WF98110A	4.08	2/3/98	EUTREPTIA/EUTREPTIELLA SPP.	NA
WF981	N16	WF98110A	4.08	2/3/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	8100.92
WF981	N16	WF98110A	4.08	2/3/98	GYRODINIUM SPIRALE	131649.74
WF981	N16	WF98110A	4.08	2/3/98	HETEROCAPSA ROTUNDATA	318.84
WF981	N16	WF98110A	4.08	2/3/98	PENNATE DIATOMS SP. GROUP 7 20-30 MICRONS LENGTH	NA
WF981	N16	WF98110A	4.08	2/3/98	THALASSIONEMA NITZSCHIOIDES	629.69
WF981	N16	WF98110A	4.08	2/3/98	THALASSIOSIRA ROTULA	22192.64
WF981	N16	WF98110A	4.08	2/3/98	THALASSIOSIRA SP. GROUP 4 20-30 MICRONS LENGTH	3992.34
WF981	N16	WF98110A	4.08	2/3/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	86080.79
WF981	N16	WF98110A	4.08	2/3/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	36141.63
WF981	N16	WF98110A	4.08	2/3/98	CERATIUM FUSUS	11.83
WF981	N16	WF98110A	4.08	2/3/98	CERATIUM LONGIPES	78.67
WF981	N16	WF98110A	4.08	2/3/98	CERATIUM SPP.	20.79
WF981	N16	WF98110A	4.08	2/3/98	CERATIUM TRIPOS	181.95
WF981	N16	WF98110A	4.08	2/3/98	DISTEPHANUS SPECULUM	15.37
WF981	N16	WF98110A	4.08	2/3/98	MESODINIUM RUBRUM	NA
WF981	N16	WF98110A	4.08	2/3/98	PROTOPERIDIUM DEPRESSUM	193.01
WF981	F24	WF98112E	9.14	2/6/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	1505.45
WF981	F24	WF98112E	9.14	2/6/98	COCCONEIS SCUTELLUM EHRENB.	1552.25
WF981	F24	WF98112E	9.14	2/6/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	1237.23
WF981	F24	WF98112E	9.14	2/6/98	CRYPTOMONAS SP. GROUP 2 LENGTH >10 MICRONS	2927.26
WF981	F24	WF98112E	9.14	2/6/98	CYLINDROTHECA CLOSTERIUM	8656.85
WF981	F24	WF98112E	9.14	2/6/98	DICTYOCHA SPECULUM	NA
WF981	F24	WF98112E	9.14	2/6/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	1080.12
WF981	F24	WF98112E	9.14	2/6/98	GYRODINIUM SPIRALE	87766.50
WF981	F24	WF98112E	9.14	2/6/98	NITZSCHIA SPP.	1300.13
WF981	F24	WF98112E	9.14	2/6/98	PARALIA SULCATA	1002.71
WF981	F24	WF98112E	9.14	2/6/98	PENNATE DIATOMS SP. GROUP 8 10-20 MICRONS LENGTH	NA
WF981	F24	WF98112E	9.14	2/6/98	POROSIRA GLACIALIS	NA
WF981	F24	WF98112E	9.14	2/6/98	SKELETONEMA COSTATUM GREV+CLEVE	1924.33
WF981	F24	WF98112E	9.14	2/6/98	THALASSIONEMA NITZSCHIOIDES	787.11

Appendix K

Survey	Sta.	Sample Number	Depth (m)	Sampling Date	Plankton	Estimated Carbon Equivalence (ng Carbon/L)
WF981	F24	WF98112E	9.14	2/6/98	THALASSIOSIRA NORDENSKIOLDII CLEVE	308.81
WF981	F24	WF98112E	9.14	2/6/98	THALASSIOSIRA ROTULA	49933.44
WF981	F24	WF98112E	9.14	2/6/98	THALASSIOSIRA SP. GROUP 3 10-20 MICRONS LENGTH	3734.64
WF981	F24	WF98112E	9.14	2/6/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	77074.77
WF981	F24	WF98112E	9.14	2/6/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	7608.76
WF981	F24	WF98112E	9.14	2/6/98	CERATIUM FUSUS	7.77
WF981	F24	WF98112E	9.14	2/6/98	CERATIUM TRIPOS	19.90
WF981	F24	WF98112E	9.14	2/6/98	DISTEPHANUS SPECULUM	15.13
WF981	F24	WF98112E	9.14	2/6/98	MESODINIUM RUBRUM	NA
WF981	F24	WF981130	2.50	2/6/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	815.45
WF981	F24	WF981130	2.50	2/6/98	CHAETOCEROS SPP. (10-20UM)	NA
WF981	F24	WF981130	2.50	2/6/98	COCCONEIS SCUTELLUM EHRENB.	1164.19
WF981	F24	WF981130	2.50	2/6/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	2930.28
WF981	F24	WF981130	2.50	2/6/98	CRYPTOMONAS SP. GROUP 2 LENGTH >10 MICRONS	2822.72
WF981	F24	WF981130	2.50	2/6/98	CYLINDROTHECA CLOSTERIUM	6925.48
WF981	F24	WF981130	2.50	2/6/98	EUTREPTIA/EUTREPTIELLA SPP.	NA
WF981	F24	WF981130	2.50	2/6/98	GRAMMATOPHORA MARINA	728.57
WF981	F24	WF981130	2.50	2/6/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	1620.18
WF981	F24	WF981130	2.50	2/6/98	GYRODINIUM SPIRALE	65824.87
WF981	F24	WF981130	2.50	2/6/98	HETEROCAPSA ROTUNDATA	318.84
WF981	F24	WF981130	2.50	2/6/98	ODONTELLA AURITA	4378.14
WF981	F24	WF981130	2.50	2/6/98	PENNATE DIATOMS SP. GROUP 7 20-30 MICRONS LENGTH	NA
WF981	F24	WF981130	2.50	2/6/98	POROSIRA GLACIALIS	NA
WF981	F24	WF981130	2.50	2/6/98	PYRAMIMONAS SP. GROUP 1 10-20 MICRONS LENGTH	NA
WF981	F24	WF981130	2.50	2/6/98	SKELETONEMA COSTATUM GREV+CLEVE	1443.25
WF981	F24	WF981130	2.50	2/6/98	THALASSIONEMA NITZSCHIOIDES	1889.06
WF981	F24	WF981130	2.50	2/6/98	THALASSIOSIRA ROTULA	88791.87
WF981	F24	WF981130	2.50	2/6/98	THALASSIOSIRA SP. GROUP 3 10-20 MICRONS LENGTH	1600.56
WF981	F24	WF981130	2.50	2/6/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	56235.26
WF981	F24	WF981130	2.50	2/6/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	21875.20
WF981	F24	WF981130	2.50	2/6/98	CERATIUM FURCA	NA
WF981	F24	WF981130	2.50	2/6/98	CERATIUM FUSUS	12.57
WF981	F24	WF981130	2.50	2/6/98	CERATIUM TRIPOS	64.44
WF981	F24	WF981130	2.50	2/6/98	DISTEPHANUS SPECULUM	12.25
WF981	F24	WF981130	2.50	2/6/98	MESODINIUM RUBRUM	NA
WF981	F24	WF981130	2.50	2/6/98	PROTOPERIDINIUM DEPRESSUM	205.07
WF981	F25	WF981146	6.88	2/6/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	501.82
WF981	F25	WF981146	6.88	2/6/98	CHAETOCEROS COMPRESSUS	15482.63
WF981	F25	WF981146	6.88	2/6/98	COCCONEIS SCUTELLUM EHRENB.	1552.25
WF981	F25	WF981146	6.88	2/6/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	1823.29
WF981	F25	WF981146	6.88	2/6/98	CRYPTOMONAS SP. GROUP 2 LENGTH >10 MICRONS	418.18
WF981	F25	WF981146	6.88	2/6/98	CYANOBACTERIA SPP.	NA
WF981	F25	WF981146	6.88	2/6/98	CYLINDROTHECA CLOSTERIUM	4618.10
WF981	F25	WF981146	6.88	2/6/98	DICTYOCHA SPECULUM	NA
WF981	F25	WF981146	6.88	2/6/98	HETEROCAPSA ROTUNDATA	212.56
WF981	F25	WF981146	6.88	2/6/98	LICMOPHORA SPP.	345.41
WF981	F25	WF981146	6.88	2/6/98	ODONTELLA AURITA	4378.14
WF981	F25	WF981146	6.88	2/6/98	PENNATE DIATOMS SP. GROUP 7 20-30 MICRONS LENGTH	NA
WF981	F25	WF981146	6.88	2/6/98	PROTOPERIDINIUM SPP.	11913.24
WF981	F25	WF981146	6.88	2/6/98	SCENESDESMUS QUADRICAUDA	44.45

Survey	Sta.	Sample Number	Depth (m)	Sampling Date	Plankton	Estimated Carbon Equivalence (ng Carbon/L)
WF981	F25	WF981146	6.88	2/6/98	SKELETONEMA COSTATUM GREV+CLEVE	2452.94
WF981	F25	WF981146	6.88	2/6/98	THALASSIONEMA NITZSCHIOIDES	1889.06
WF981	F25	WF981146	6.88	2/6/98	THALASSIOSIRA ROTULA	61029.76
WF981	F25	WF981146	6.88	2/6/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	80006.96
WF981	F25	WF981146	6.88	2/6/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	20290.04
WF981	F25	WF981146	6.88	2/6/98	CERATIUM FUSUS	12.57
WF981	F25	WF981146	6.88	2/6/98	DICTYOCHA FIBULA	1.77
WF981	F25	WF981146	6.88	2/6/98	DISTEPHANUS SPECULUM	4.08
WF981	F25	WF981146	6.88	2/6/98	MESODINIUM RUBRUM	NA
WF981	F25	WF981146	6.88	2/6/98	PROROCENTRUM MICANS	5.25
WF981	F25	WF981148	3.10	2/6/98	ASTERIONELLOPSIS GLACIALIS	220.63
WF981	F25	WF981148	3.10	2/6/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	1191.81
WF981	F25	WF981148	3.10	2/6/98	CHAETOCEROS DECIPIENS	11244.21
WF981	F25	WF981148	3.10	2/6/98	CHAETOCEROS SPP. (<10UM)	625.31
WF981	F25	WF981148	3.10	2/6/98	COCCONEIS SCUTELLUM EHRENB.	465.56
WF981	F25	WF981148	3.10	2/6/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	4395.42
WF981	F25	WF981148	3.10	2/6/98	CRYPTOMONAS SP. GROUP 2 LENGTH >10 MICRONS	940.91
WF981	F25	WF981148	3.10	2/6/98	CYLINDROTHECA CLOSTERIUM	3693.59
WF981	F25	WF981148	3.10	2/6/98	EUTREPTIA/EUTREPTIELLA SPP.	NA
WF981	F25	WF981148	3.10	2/6/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	810.09
WF981	F25	WF981148	3.10	2/6/98	GYRODINIUM SPIRALE	26323.63
WF981	F25	WF981148	3.10	2/6/98	NITZSCHIA SPP.	389.95
WF981	F25	WF981148	3.10	2/6/98	PARALIA SULCATA	1604.34
WF981	F25	WF981148	3.10	2/6/98	PENNATE DIATOMS SP. GROUP 7 20-30 MICRONS LENGTH	NA
WF981	F25	WF981148	3.10	2/6/98	POROSIRA GLACIALIS	NA
WF981	F25	WF981148	3.10	2/6/98	PYRAMIMONAS SP. GROUP 1 10-20 MICRONS LENGTH	NA
WF981	F25	WF981148	3.10	2/6/98	RHIZOLENIA FRAGILISSIMA	2004.91
WF981	F25	WF981148	3.10	2/6/98	SKELETONEMA COSTATUM GREV+CLEVE	2712.66
WF981	F25	WF981148	3.10	2/6/98	THALASSIONEMA NITZSCHIOIDES	629.69
WF981	F25	WF981148	3.10	2/6/98	THALASSIOSIRA ROTULA	13315.58
WF981	F25	WF981148	3.10	2/6/98	THALASSIOSIRA SP. GROUP 4 20-30 MICRONS LENGTH	3193.10
WF981	F25	WF981148	3.10	2/6/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	47438.68
WF981	F25	WF981148	3.10	2/6/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	7608.76
WF981	F25	WF981148	3.10	2/6/98	DISTEPHANUS SPECULUM	10.81
WF981	F31	WF981155	7.00	2/6/98	ASTERIONELLOPSIS GLACIALIS	242.69
WF981	F31	WF981155	7.00	2/6/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	3173.99
WF981	F31	WF981155	7.00	2/6/98	CHAETOCEROS SPP. (10-20UM)	NA
WF981	F31	WF981155	7.00	2/6/98	CHAETOCEROS SPP. (<10UM)	1031.76
WF981	F31	WF981155	7.00	2/6/98	CHOANOFLAGELLATE SPP.	338.61
WF981	F31	WF981155	7.00	2/6/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	7950.83
WF981	F31	WF981155	7.00	2/6/98	CRYPTOMONAS SP. GROUP 2 LENGTH >10 MICRONS	1379.99
WF981	F31	WF981155	7.00	2/6/98	CYLINDROTHECA CLOSTERIUM	4570.82
WF981	F31	WF981155	7.00	2/6/98	DICTYOCHA SPECULUM	NA
WF981	F31	WF981155	7.00	2/6/98	EUTREPTIA/EUTREPTIELLA SPP.	NA
WF981	F31	WF981155	7.00	2/6/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	7128.81
WF981	F31	WF981155	7.00	2/6/98	GYRODINIUM SPIRALE	28955.99
WF981	F31	WF981155	7.00	2/6/98	HETEROCAPSA ROTUNDATA	350.73
WF981	F31	WF981155	7.00	2/6/98	NITZSCHIA SPP.	428.94
WF981	F31	WF981155	7.00	2/6/98	PENNATE DIATOMS SP. GROUP 7 20-30 MICRONS LENGTH	NA

Survey	Sta.	Sample Number	Depth (m)	Sampling Date	Plankton	Estimated Carbon Equivalence (ng Carbon/L)
WF981	F31	WF981155	7.00	2/6/98	POROSIRA GLACIALIS	NA
WF981	F31	WF981155	7.00	2/6/98	PYRAMIMONAS SP. GROUP 1 10-20 MICRONS LENGTH	NA
WF981	F31	WF981155	7.00	2/6/98	SKELETONEMA COSTATUM GREV+CLEVE	3364.85
WF981	F31	WF981155	7.00	2/6/98	THALASSIONEMA NITZSCHIOIDES	831.18
WF981	F31	WF981155	7.00	2/6/98	THALASSIOSIRA ROTULA	36617.86
WF981	F31	WF981155	7.00	2/6/98	THALASSIOSIRA SP. GROUP 3 10-20 MICRONS LENGTH	2112.23
WF981	F31	WF981155	7.00	2/6/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	85012.64
WF981	F31	WF981155	7.00	2/6/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	23016.51
WF981	F31	WF981155	7.00	2/6/98	CERATIUM TRIPOS	29.38
WF981	F31	WF981155	7.00	2/6/98	DISTEPHANUS SPECULUM	9.31
WF981	F31	WF981156	2.94	2/6/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	1839.99
WF981	F31	WF981156	2.94	2/6/98	CHAETOCEROS SPP. (10-20UM)	NA
WF981	F31	WF981156	2.94	2/6/98	CHAETOCEROS SPP.(<10UM)	416.87
WF981	F31	WF981156	2.94	2/6/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	5339.62
WF981	F31	WF981156	2.94	2/6/98	CRYPTOMONAS SP. GROUP 2 LENGTH >10 MICRONS	836.36
WF981	F31	WF981156	2.94	2/6/98	CYLINDROTHECA CLOSTERIUM	5540.39
WF981	F31	WF981156	2.94	2/6/98	GRAMMATOPHORA MARINA	291.36
WF981	F31	WF981156	2.94	2/6/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	4320.49
WF981	F31	WF981156	2.94	2/6/98	GYRODINIUM SP. GROUP 1 5-20UM W 10-20UM L	1080.12
WF981	F31	WF981156	2.94	2/6/98	PENNATE DIATOMS SP. GROUP 7 20-30 MICRONS LENGTH	NA
WF981	F31	WF981156	2.94	2/6/98	PENNATE DIATOMS SP. GROUP 8 10-20 MICRONS LENGTH	NA
WF981	F31	WF981156	2.94	2/6/98	PLEUROSIGMA SPP.	16938.16
WF981	F31	WF981156	2.94	2/6/98	PSEUDONITZSCHIA PUNGENS	606.62
WF981	F31	WF981156	2.94	2/6/98	PYRAMIMONAS SP. GROUP 1 10-20 MICRONS LENGTH	NA
WF981	F31	WF981156	2.94	2/6/98	RHIZOLENIA SETIGERA	4221.46
WF981	F31	WF981156	2.94	2/6/98	SKELETONEMA COSTATUM GREV+CLEVE	4848.16
WF981	F31	WF981156	2.94	2/6/98	THALASSIONEMA NITZSCHIOIDES	1133.43
WF981	F31	WF981156	2.94	2/6/98	THALASSIOSIRA ROTULA	66593.90
WF981	F31	WF981156	2.94	2/6/98	THALASSIOSIRA SP. GROUP 3 10-20 MICRONS LENGTH	1760.19
WF981	F31	WF981156	2.94	2/6/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	54873.89
WF981	F31	WF981156	2.94	2/6/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	25362.55
WF981	F31	WF981156	2.94	2/6/98	DISTEPHANUS SPECULUM	9.73
WF981	F30	WF981162	5.29	2/6/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	1758.89
WF981	F30	WF981162	5.29	2/6/98	CHAETOCEROS SPP. (10-20UM)	NA
WF981	F30	WF981162	5.29	2/6/98	CHAETOCEROS SPP.(<10UM)	208.74
WF981	F30	WF981162	5.29	2/6/98	CHOANOFAGELLATE SPP.	205.51
WF981	F30	WF981162	5.29	2/6/98	COCCONEIS SCUTELLUM EHRENB.	465.60
WF981	F30	WF981162	5.29	2/6/98	COSCIKODISCUS RADIATUS	7252.05
WF981	F30	WF981162	5.29	2/6/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	6455.91
WF981	F30	WF981162	5.29	2/6/98	CRYPTOMONAS SP. GROUP 2 LENGTH >10 MICRONS	7119.32
WF981	F30	WF981162	5.29	2/6/98	CYLINDROTHECA CLOSTERIUM	3232.13
WF981	F30	WF981162	5.29	2/6/98	EUTREPTIA/EUTREPTIELLA SPP.	NA
WF981	F30	WF981162	5.29	2/6/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	8653.44
WF981	F30	WF981162	5.29	2/6/98	PARALIA SULCATA	2406.68
WF981	F30	WF981162	5.29	2/6/98	PENNATE DIATOMS SP. GROUP 7 20-30 MICRONS LENGTH	NA
WF981	F30	WF981162	5.29	2/6/98	PENNATE DIATOMS SP. GROUP 8 10-20 MICRONS LENGTH	NA
WF981	F30	WF981162	5.29	2/6/98	PLEUROSIGMA SPP.	20322.37

Survey	Sta.	Sample Number	Depth (m)	Sampling Date	Plankton	Estimated Carbon Equivalence (ng Carbon/L)
WF981	F30	WF981162	5.29	2/6/98	PROTOPERIDINIUM SPP.	9531.27
WF981	F30	WF981162	5.29	2/6/98	PYRAMIMONAS SP. GROUP 1 10-20 MICRONS LENGTH	NA
WF981	F30	WF981162	5.29	2/6/98	SKELETONEMA COSTATUM GREV+CLEVE	2828.29
WF981	F30	WF981162	5.29	2/6/98	THALASSIONEMA NITZSCHIOIDES	251.89
WF981	F30	WF981162	5.29	2/6/98	THALASSIOSIRA ROTULA	26633.09
WF981	F30	WF981162	5.29	2/6/98	THALASSIOSIRA SP. GROUP 3 10-20 MICRONS LENGTH	1280.23
WF981	F30	WF981162	5.29	2/6/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	52226.35
WF981	F30	WF981162	5.29	2/6/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	34288.82
WF981	F30	WF981162	5.29	2/6/98	DICTYOCHA FIBULA	1.04
WF981	F30	WF981162	5.29	2/6/98	DINOPHYSIS ACUMINATA	0.94
WF981	F30	WF981162	5.29	2/6/98	DISTEPHANUS SPECULUM	5.40
WF981	F30	WF981163	3.06	2/6/98	ASTERIONELLA FORMOSA	314.60
WF981	F30	WF981163	3.06	2/6/98	CALYCOMONAS OVALIS	77.60
WF981	F30	WF981163	3.06	2/6/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	3178.17
WF981	F30	WF981163	3.06	2/6/98	CHAETOCEROS DECIPIENS	29984.57
WF981	F30	WF981163	3.06	2/6/98	COSCINODISCUS RADIATUS	14503.05
WF981	F30	WF981163	3.06	2/6/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	3581.45
WF981	F30	WF981163	3.06	2/6/98	CRYPTOMONAS SP. GROUP 2 LENGTH >10 MICRONS	1672.72
WF981	F30	WF981163	3.06	2/6/98	CYANOBACTERIA SPP.	NA
WF981	F30	WF981163	3.06	2/6/98	CYLINDROTHECA CLOSTERIUM	1846.80
WF981	F30	WF981163	3.06	2/6/98	EUTREPTIA/EUTREPTIELLA SPP.	NA
WF981	F30	WF981163	3.06	2/6/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	3240.37
WF981	F30	WF981163	3.06	2/6/98	GYRODINIUM SP. GROUP 1 5-20UM W 10-20UM L	323.96
WF981	F30	WF981163	3.06	2/6/98	HETEROCAPSA ROTUNDATA	127.51
WF981	F30	WF981163	3.06	2/6/98	PENNATE DIATOMS SP. GROUP 7 20-30 MICRONS LENGTH	NA
WF981	F30	WF981163	3.06	2/6/98	PENNATE DIATOMS SP. GROUP 8 10-20 MICRONS LENGTH	NA
WF981	F30	WF981163	3.06	2/6/98	PLEUROSIGMA SPP.	5080.23
WF981	F30	WF981163	3.06	2/6/98	PROTOPERIDINIUM SPP.	28591.77
WF981	F30	WF981163	3.06	2/6/98	PSEUDONITZSCHIA DELICATISSIMA	421.50
WF981	F30	WF981163	3.06	2/6/98	SCENESEDESMUS QUADRICAUDA	71.12
WF981	F30	WF981163	3.06	2/6/98	SKELETONEMA COSTATUM GREV+CLEVE	2236.50
WF981	F30	WF981163	3.06	2/6/98	THALASSIONEMA NITZSCHIOIDES	1101.95
WF981	F30	WF981163	3.06	2/6/98	THALASSIOSIRA ROTULA	13315.58
WF981	F30	WF981163	3.06	2/6/98	THALASSIOSIRA SP. GROUP 3 10-20 MICRONS LENGTH	2080.23
WF981	F30	WF981163	3.06	2/6/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	51103.93
WF981	F30	WF981163	3.06	2/6/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	30435.06
WF981	F30	WF981163	3.06	2/6/98	DISTEPHANUS SPECULUM	5.16
WF981	N04	WF981173	20.23	2/8/98	CALYCOMONAS OVALIS	46.56
WF981	N04	WF981173	20.23	2/8/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	1104.00
WF981	N04	WF981173	20.23	2/8/98	CHAETOCEROS SPP.(<10UM)	250.12
WF981	N04	WF981173	20.23	2/8/98	COSCINODISCUS RADIATUS	10877.29
WF981	N04	WF981173	20.23	2/8/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	3438.20
WF981	N04	WF981173	20.23	2/8/98	CRYPTOMONAS SP. GROUP 2 LENGTH >10 MICRONS	1756.36
WF981	N04	WF981173	20.23	2/8/98	CYLINDROTHECA CLOSTERIUM	3693.59
WF981	N04	WF981173	20.23	2/8/98	DICTYOCHA SPECULUM	NA
WF981	N04	WF981173	20.23	2/8/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	1619.79
WF981	N04	WF981173	20.23	2/8/98	GYRODINIUM SP. GROUP 1 5-20UM W 10-20UM L	1944.22
WF981	N04	WF981173	20.23	2/8/98	HETEROCAPSA ROTUNDATA	127.54
WF981	N04	WF981173	20.23	2/8/98	HETEROCAPSA TRIQUETRA	570.46

Survey	Sta.	Sample Number	Depth (m)	Sampling Date	Plankton	Estimated Carbon Equivalence (ng Carbon/L)
WF981	N04	WF981173	20.23	2/8/98	PENNATE DIATOMS SP. GROUP 8 10-20 MICRONS LENGTH	NA
WF981	N04	WF981173	20.23	2/8/98	PROTOPERIDINIUM BIPES	787.09
WF981	N04	WF981173	20.23	2/8/98	PYRAMIMONAS SP. GROUP 1 10-20 MICRONS LENGTH	NA
WF981	N04	WF981173	20.23	2/8/98	SKELETONEMA COSTATUM GREV+CLEVE	288.58
WF981	N04	WF981173	20.23	2/8/98	THALASSIOSIRA ROTULA	18863.74
WF981	N04	WF981173	20.23	2/8/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	29028.70
WF981	N04	WF981173	20.23	2/8/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	15978.41
WF981	N04	WF981173	20.23	2/8/98	CERATIUM FURCA	NA
WF981	N04	WF981173	20.23	2/8/98	CERATIUM LONGIPES	152.43
WF981	N04	WF981173	20.23	2/8/98	CERATIUM SPP.	20.14
WF981	N04	WF981173	20.23	2/8/98	CERATIUM TRIPOS	58.76
WF981	N04	WF981173	20.23	2/8/98	DINOPHYSIS ACUMINATA	1.46
WF981	N04	WF981173	20.23	2/8/98	DISTEPHANUS SPECULUM	15.82
WF981	N04	WF981173	20.23	2/8/98	MESODINIUM RUBRUM	NA
WF981	N04	WF981173	20.23	2/8/98	PROROCENTRUM MICANS	2.40
WF981	N04	WF981175	4.03	2/8/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	1191.81
WF981	N04	WF981175	4.03	2/8/98	CHAETOCEROS SPP. (10-20UM)	NA
WF981	N04	WF981175	4.03	2/8/98	CHAETOCEROS SPP.(<10UM)	937.96
WF981	N04	WF981175	4.03	2/8/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	4541.93
WF981	N04	WF981175	4.03	2/8/98	CRYPTOMONAS SP. GROUP 2 LENGTH >10 MICRONS	627.27
WF981	N04	WF981175	4.03	2/8/98	CYLINDROTHECA CLOSTERIUM	7848.88
WF981	N04	WF981175	4.03	2/8/98	DICTYOCHA SPECULUM	NA
WF981	N04	WF981175	4.03	2/8/98	EUTREPTIA/EUTREPTIELLA SPP.	NA
WF981	N04	WF981175	4.03	2/8/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	10531.19
WF981	N04	WF981175	4.03	2/8/98	GYRODINIUM SPIRALE	78970.89
WF981	N04	WF981175	4.03	2/8/98	HETEROCAPSA ROTUNDATA	159.42
WF981	N04	WF981175	4.03	2/8/98	NITZSCHIA SPP.	389.95
WF981	N04	WF981175	4.03	2/8/98	PENNATE DIATOMS SP. GROUP 7 20-30 MICRONS LENGTH	NA
WF981	N04	WF981175	4.03	2/8/98	PYRAMIMONAS SP. GROUP 1 10-20 MICRONS LENGTH	NA
WF981	N04	WF981175	4.03	2/8/98	SKELETONEMA COSTATUM GREV+CLEVE	981.17
WF981	N04	WF981175	4.03	2/8/98	THALASSIONEMA NITZSCHIOIDES	503.75
WF981	N04	WF981175	4.03	2/8/98	THALASSIOSIRA ROTULA	26631.17
WF981	N04	WF981175	4.03	2/8/98	THALASSIOSIRA SP. GROUP 4 20-30 MICRONS LENGTH	798.28
WF981	N04	WF981175	4.03	2/8/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	45553.70
WF981	N04	WF981175	4.03	2/8/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	9510.96
WF981	N04	WF981175	4.03	2/8/98	CERATIUM TRIPOS	130.78
WF981	N04	WF981175	4.03	2/8/98	DINOPHYSIS ACUMINATA	4.35
WF981	N04	WF981175	4.03	2/8/98	DISTEPHANUS SPECULUM	34.53
WF981	N04	WF981175	4.03	2/8/98	MESODINIUM RUBRUM	NA
WF981	N18	WF981184	10.89	2/8/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	120.44
WF981	N18	WF981184	10.89	2/8/98	CHAETOCEROS BOREALIS	709.39
WF981	N18	WF981184	10.89	2/8/98	CHAETOCEROS SPP. (10-20UM)	NA
WF981	N18	WF981184	10.89	2/8/98	CHAETOCEROS SPP.(<10UM)	75.04
WF981	N18	WF981184	10.89	2/8/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	922.06
WF981	N18	WF981184	10.89	2/8/98	CRYPTOMONAS SP. GROUP 2 LENGTH >10 MICRONS	100.36
WF981	N18	WF981184	10.89	2/8/98	CYLINDROTHECA CLOSTERIUM	1846.80
WF981	N18	WF981184	10.89	2/8/98	EUTREPTIA/EUTREPTIELLA SPP.	NA
WF981	N18	WF981184	10.89	2/8/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	648.07
WF981	N18	WF981184	10.89	2/8/98	GYRODINIUM SP. GROUP 1 5-20UM W 10-20UM L	259.23

Survey	Sta.	Sample Number	Depth (m)	Sampling Date	Plankton	Estimated Carbon Equivalence (ng Carbon/L)
WF981	N18	WF981184	10.89	2/8/98	GYRODINIUM SPIRALE	10531.98
WF981	N18	WF981184	10.89	2/8/98	PENNATE DIATOMS SP. GROUP 8 10-20 MICRONS LENGTH	NA
WF981	N18	WF981184	10.89	2/8/98	PLEUROSIGMA SPP.	423.35
WF981	N18	WF981184	10.89	2/8/98	POROSIRA GLACIALIS	NA
WF981	N18	WF981184	10.89	2/8/98	PYRAMIMONAS SP. GROUP 1 10-20 MICRONS LENGTH	NA
WF981	N18	WF981184	10.89	2/8/98	RHIZOSOLENIA FRAGILISSIMA	501.23
WF981	N18	WF981184	10.89	2/8/98	THALASSIONEMA NITZSCHIOIDES	209.90
WF981	N18	WF981184	10.89	2/8/98	THALASSIOSIRA ROTULA	3698.77
WF981	N18	WF981184	10.89	2/8/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	6660.27
WF981	N18	WF981184	10.89	2/8/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	3195.68
WF981	N18	WF981184	10.89	2/8/98	ATHECATE DINOFLAGELLATE	NA
WF981	N18	WF981184	10.89	2/8/98	CERATIUM LONGIPES	99.57
WF981	N18	WF981184	10.89	2/8/98	CERATIUM SPP.	17.54
WF981	N18	WF981184	10.89	2/8/98	CERATIUM TRIPOS	76.76
WF981	N18	WF981184	10.89	2/8/98	DINOPHYSIS ACUMINATA	1.28
WF981	N18	WF981184	10.89	2/8/98	DISTEPHANUS SPECULUM	21.89
WF981	N18	WF981184	10.89	2/8/98	MESODINIUM RUBRUM	NA
WF981	N18	WF981184	10.89	2/8/98	PROROCENTRUM GRACILE	0.61
WF981	N18	WF981186	1.13	2/8/98	AMPHIDIUM OPERCULATUM	NA
WF981	N18	WF981186	1.13	2/8/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	1104.00
WF981	N18	WF981186	1.13	2/8/98	CHAETOCEROS SPP. (10-20UM)	NA
WF981	N18	WF981186	1.13	2/8/98	CHAETOCEROS SPP. (<10UM)	375.18
WF981	N18	WF981186	1.13	2/8/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	3789.83
WF981	N18	WF981186	1.13	2/8/98	CRYPTOMONAS SP. GROUP 2 LENGTH >10 MICRONS	1003.63
WF981	N18	WF981186	1.13	2/8/98	CYLINDROTHECA CLOSTERIUM	10388.23
WF981	N18	WF981186	1.13	2/8/98	DICTYOCHA SPECULUM	NA
WF981	N18	WF981186	1.13	2/8/98	EUTREPTIA/EUTREPTIELLA SPP.	NA
WF981	N18	WF981186	1.13	2/8/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	8424.96
WF981	N18	WF981186	1.13	2/8/98	NITZSCHIA SPP.	243.72
WF981	N18	WF981186	1.13	2/8/98	PARALIA SULCATA	1754.75
WF981	N18	WF981186	1.13	2/8/98	PENNATE DIATOMS SP. GROUP 8 10-20 MICRONS LENGTH	NA
WF981	N18	WF981186	1.13	2/8/98	SKELETONEMA COSTATUM GREV+CLEVE	721.45
WF981	N18	WF981186	1.13	2/8/98	THALASSIONEMA NITZSCHIOIDES	708.40
WF981	N18	WF981186	1.13	2/8/98	THALASSIOSIRA ROTULA	18031.52
WF981	N18	WF981186	1.13	2/8/98	THALASSIOSIRA SP. GROUP 4 20-30 MICRONS LENGTH	5488.15
WF981	N18	WF981186	1.13	2/8/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	22996.77
WF981	N18	WF981186	1.13	2/8/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	23587.17
WF981	N18	WF981186	1.13	2/8/98	ATHECATE DINOFLAGELLATE	NA
WF981	N18	WF981186	1.13	2/8/98	CERATIUM FURCA	NA
WF981	N18	WF981186	1.13	2/8/98	CERATIUM LONGIPES	61.46
WF981	N18	WF981186	1.13	2/8/98	CERATIUM TRIPOS	213.23
WF981	N18	WF981186	1.13	2/8/98	DICTYOCHA FIBULA	1.30
WF981	N18	WF981186	1.13	2/8/98	DINOPHYSIS ACUMINATA	4.72
WF981	N18	WF981186	1.13	2/8/98	DISTEPHANUS SPECULUM	39.03
WF981	N18	WF981186	1.13	2/8/98	MESODINIUM RUBRUM	NA
WF981	N18	WF981186	1.13	2/8/98	PROROCENTRUM MICANS	1.93
WF981	F23	WF981196	11.97	2/8/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	1254.54
WF981	F23	WF981196	11.97	2/8/98	CHAETOCEROS SPP. (<10UM)	62.52
WF981	F23	WF981196	11.97	2/8/98	COCCONEIS SCUTELLUM EHRENB.	465.56
WF981	F23	WF981196	11.97	2/8/98	CORETHRON CRIOPHILUM	18426.24

Survey	Sta.	Sample Number	Depth (m)	Sampling Date	Plankton	Estimated Carbon Equivalence (ng Carbon/L)
WF981	F23	WF981196	11.97	2/8/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	325.59
WF981	F23	WF981196	11.97	2/8/98	CRYPTOMONAS SP. GROUP 2 LENGTH >10 MICRONS	836.36
WF981	F23	WF981196	11.97	2/8/98	CYLINDROTHECA CLOSTERIUM	6463.78
WF981	F23	WF981196	11.97	2/8/98	DICTYOGA SPECULUM	NA
WF981	F23	WF981196	11.97	2/8/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	1080.12
WF981	F23	WF981196	11.97	2/8/98	GYRODINIUM SP. GROUP 1 5-20UM W 10-20UM L	1080.12
WF981	F23	WF981196	11.97	2/8/98	GYROSIGMA SPP.	2540.11
WF981	F23	WF981196	11.97	2/8/98	NITZSCHIA SPP.	779.89
WF981	F23	WF981196	11.97	2/8/98	PENNATE DIATOMS SP. GROUP 8 10-20 MICRONS LENGTH	NA
WF981	F23	WF981196	11.97	2/8/98	PYRAMIMONAS SP. GROUP 1 10-20 MICRONS LENGTH	NA
WF981	F23	WF981196	11.97	2/8/98	RHIZOLENIA SETIGERA	4221.46
WF981	F23	WF981196	11.97	2/8/98	SKELETONEMA COSTATUM GREV+CLEVE	1385.19
WF981	F23	WF981196	11.97	2/8/98	THALASSIONEMA NITZSCHIOIDES	629.69
WF981	F23	WF981196	11.97	2/8/98	THALASSIOSIRA ROTULA	39946.75
WF981	F23	WF981196	11.97	2/8/98	THALASSIOSIRA SP. GROUP 4 20-30 MICRONS LENGTH	5587.93
WF981	F23	WF981196	11.97	2/8/98	THALASSIOTHRIX LONGISSIMA	NA
WF981	F23	WF981196	11.97	2/8/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	61576.04
WF981	F23	WF981196	11.97	2/8/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	21558.17
WF981	F23	WF981196	11.97	2/8/98	DICTYOGA FIBULA	3.86
WF981	F23	WF981196	11.97	2/8/98	DISTEPHANUS SPECULUM	17.77
WF981	F23	WF981196	11.97	2/8/98	PROROCENTRUM MICANS	1.55
WF981	F23	WF981198	3.24	2/8/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	376.36
WF981	F23	WF981198	3.24	2/8/98	CHAETOCEROS DECIPIENS	4496.61
WF981	F23	WF981198	3.24	2/8/98	COCCONEIS SCUTELLUM EHRENB.	465.56
WF981	F23	WF981198	3.24	2/8/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	293.03
WF981	F23	WF981198	3.24	2/8/98	CRYPTOMONAS SP. GROUP 2 LENGTH >10 MICRONS	313.64
WF981	F23	WF981198	3.24	2/8/98	CYLINDROTHECA CLOSTERIUM	3231.89
WF981	F23	WF981198	3.24	2/8/98	EUTREPTIA/EUTREPTIELLA SPP.	NA
WF981	F23	WF981198	3.24	2/8/98	GYROSIGMA SPP.	2540.11
WF981	F23	WF981198	3.24	2/8/98	PARALIA SULCATA	2005.42
WF981	F23	WF981198	3.24	2/8/98	PENNATE DIATOMS SP. GROUP 8 10-20 MICRONS LENGTH	NA
WF981	F23	WF981198	3.24	2/8/98	PLEUROSIGMA SPP.	5080.23
WF981	F23	WF981198	3.24	2/8/98	PROTOPERIDIUM SPP.	9530.59
WF981	F23	WF981198	3.24	2/8/98	SKELETONEMA COSTATUM GREV+CLEVE	1442.90
WF981	F23	WF981198	3.24	2/8/98	THALASSIOSIRA ROTULA	55481.60
WF981	F23	WF981198	3.24	2/8/98	THALASSIOSIRA SP. GROUP 3 10-20 MICRONS LENGTH	1120.12
WF981	F23	WF981198	3.24	2/8/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	53564.87
WF981	F23	WF981198	3.24	2/8/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	27581.77
WF981	F23	WF981198	3.24	2/8/98	ATHECATE DINOFLAGELLATE	NA
WF981	F23	WF981198	3.24	2/8/98	DICTYOGA FIBULA	2.76
WF981	F23	WF981198	3.24	2/8/98	DISTEPHANUS SPECULUM	22.19
WF981	F13	WF98125D	11.94	2/9/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	1881.81
WF981	F13	WF98125D	11.94	2/9/98	CERATIUM LONGIPES	29685.81
WF981	F13	WF98125D	11.94	2/9/98	CHAETOCEROS DECIPIENS	8993.21
WF981	F13	WF98125D	11.94	2/9/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	4200.07
WF981	F13	WF98125D	11.94	2/9/98	CRYPTOMONAS SP. GROUP 2 LENGTH >10 MICRONS	1254.54
WF981	F13	WF98125D	11.94	2/9/98	CYLINDROTHECA CLOSTERIUM	6002.09
WF981	F13	WF98125D	11.94	2/9/98	GYRODINIUM SP. GROUP 1 5-20UM W 10-20UM L	8100.92
WF981	F13	WF98125D	11.94	2/9/98	HETEROCAPSA ROTUNDATA	212.56

Survey	Sta.	Sample Number	Depth (m)	Sampling Date	Plankton	Estimated Carbon Equivalence (ng Carbon/L)
WF981	F13	WF98125D	11.94	2/9/98	PENNATE DIATOMS SP. GROUP 7 20-30 MICRONS LENGTH	NA
WF981	F13	WF98125D	11.94	2/9/98	PLEUROSIGMA SPP.	2540.11
WF981	F13	WF98125D	11.94	2/9/98	PYRAMIMONAS SP. GROUP 1 10-20 MICRONS LENGTH	NA
WF981	F13	WF98125D	11.94	2/9/98	RHIZOLENIA FRAGILISSIMA	5013.48
WF981	F13	WF98125D	11.94	2/9/98	SKELETONEMA COSTATUM GREV+CLEVE	3463.80
WF981	F13	WF98125D	11.94	2/9/98	THALASSIONEMA NITZSCHIOIDES	881.56
WF981	F13	WF98125D	11.94	2/9/98	THALASSIOSIRA ROTULA	42166.02
WF981	F13	WF98125D	11.94	2/9/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	109957.22
WF981	F13	WF98125D	11.94	2/9/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	9510.96
WF981	F13	WF98125D	11.94	2/9/98	ATHECATE DINOFLAGELLATE	NA
WF981	F13	WF98125D	11.94	2/9/98	CERATIUM TRIPOS	34.12
WF981	F13	WF98125D	11.94	2/9/98	DINOPHYSIS ACUMINATA	3.40
WF981	F13	WF98125D	11.94	2/9/98	DISTEPHANUS SPECULUM	28.10
WF981	F13	WF98125D	11.94	2/9/98	MESODINIUM RUBRUM	NA
WF981	F13	WF98125D	11.94	2/9/98	PROROCENTRUM MICANS	2.78
WF981	F13	WF98125D	11.94	2/9/98	PROTOPERIDIUM SPP.	28.42
WF981	F13	WF98125F	3.19	2/9/98	CALYCOMONAS OVALIS	58.20
WF981	F13	WF98125F	3.19	2/9/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	2069.99
WF981	F13	WF98125F	3.19	2/9/98	CHAETOCEROS DEBILIS	3160.50
WF981	F13	WF98125F	3.19	2/9/98	CHAETOCEROS SPP. (10-20UM)	NA
WF981	F13	WF98125F	3.19	2/9/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	4151.23
WF981	F13	WF98125F	3.19	2/9/98	CRYPTOMONAS SP. GROUP 2 LENGTH >10 MICRONS	1254.54
WF981	F13	WF98125F	3.19	2/9/98	CYLINDROTHECA CLOSTERIUM	8310.58
WF981	F13	WF98125F	3.19	2/9/98	DICTYOCHA SPECULUM	NA
WF981	F13	WF98125F	3.19	2/9/98	EUTREPTIA/EUTREPTIELLA SPP.	NA
WF981	F13	WF98125F	3.19	2/9/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	5831.26
WF981	F13	WF98125F	3.19	2/9/98	GYRODINIUM SP. GROUP 1 5-20UM W 10-20UM L	810.09
WF981	F13	WF98125F	3.19	2/9/98	GYROSIGMA SPP.	2540.11
WF981	F13	WF98125F	3.19	2/9/98	HETEROCAPSA ROTUNDATA	159.42
WF981	F13	WF98125F	3.19	2/9/98	LICMOPHORA SPP.	276.33
WF981	F13	WF98125F	3.19	2/9/98	NITZSCHIA SPP.	779.89
WF981	F13	WF98125F	3.19	2/9/98	PENNATE DIATOMS SP. GROUP 8 10-20 MICRONS LENGTH	NA
WF981	F13	WF98125F	3.19	2/9/98	PYRAMIMONAS SP. GROUP 1 10-20 MICRONS LENGTH	NA
WF981	F13	WF98125F	3.19	2/9/98	RHIZOLENIA SETIGERA	10556.18
WF981	F13	WF98125F	3.19	2/9/98	SKELETONEMA COSTATUM GREV+CLEVE	634.88
WF981	F13	WF98125F	3.19	2/9/98	THALASSIONEMA NITZSCHIOIDES	1007.50
WF981	F13	WF98125F	3.19	2/9/98	THALASSIOSIRA ROTULA	24411.90
WF981	F13	WF98125F	3.19	2/9/98	THALASSIOSIRA SP. GROUP 3 10-20 MICRONS LENGTH	1440.16
WF981	F13	WF98125F	3.19	2/9/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	38642.11
WF981	F13	WF98125F	3.19	2/9/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	22826.29
WF981	F13	WF98125F	3.19	2/9/98	CERATIUM LONGIPES	45.48
WF981	F13	WF98125F	3.19	2/9/98	CERATIUM TRIPOS	35.06
WF981	F13	WF98125F	3.19	2/9/98	DISTEPHANUS SPECULUM	31.11
WF981	F13	WF98125F	3.19	2/9/98	THECATE DINOFLAGELLATE SPP.	NA
WF981	F06	WF981290	15.87	2/9/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	1170.90
WF981	F06	WF981290	15.87	2/9/98	CHAETOCEROS BOREALIS	7093.92
WF981	F06	WF981290	15.87	2/9/98	CHAETOCEROS DECIPIENS	3747.17
WF981	F06	WF981290	15.87	2/9/98	CORETHRON CRIOPHILUM	15355.20
WF981	F06	WF981290	15.87	2/9/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	2213.99

Survey	Sta.	Sample Number	Depth (m)	Sampling Date	Plankton	Estimated Carbon Equivalence (ng Carbon/L)
WF981	F06	WF981290	15.87	2/9/98	CYLINDROTHECA CLOSTERIUM	7310.23
WF981	F06	WF981290	15.87	2/9/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	5940.67
WF981	F06	WF981290	15.87	2/9/98	GYRODINIUM SP. GROUP 1 5-20UM W 10-20UM L	540.06
WF981	F06	WF981290	15.87	2/9/98	GYRODINIUM SPIRALE	21936.36
WF981	F06	WF981290	15.87	2/9/98	HETEROCAPSA ROTUNDATA	212.56
WF981	F06	WF981290	15.87	2/9/98	RHIZOLENIA DELICATULA	2276.14
WF981	F06	WF981290	15.87	2/9/98	STEPHANOPYXIS NIPPONICA	NA
WF981	F06	WF981290	15.87	2/9/98	THALASSIONEMA NITZSCHIOIDES	944.53
WF981	F06	WF981290	15.87	2/9/98	THALASSIOSIRA ROTULA	20343.25
WF981	F06	WF981290	15.87	2/9/98	THALASSIOSIRA SP. GROUP 3 10-20 MICRONS LENGTH	2134.08
WF981	F06	WF981290	15.87	2/9/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	24609.47
WF981	F06	WF981290	15.87	2/9/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	13949.40
WF981	F06	WF981290	15.87	2/9/98	ATHECATE DINOFLAGELLATE	NA
WF981	F06	WF981290	15.87	2/9/98	CERATIUM FURCA	NA
WF981	F06	WF981290	15.87	2/9/98	CERATIUM LONGIPES	30.73
WF981	F06	WF981290	15.87	2/9/98	CERATIUM SPP.	16.24
WF981	F06	WF981290	15.87	2/9/98	CERATIUM TRIPOS	94.77
WF981	F06	WF981290	15.87	2/9/98	DINOPHYSIS ACUMINATA	2.36
WF981	F06	WF981290	15.87	2/9/98	DISTEPHANUS SPECULUM	25.52
WF981	F06	WF981290	15.87	2/9/98	PROTOPERIDIUM SPP.	19.73
WF981	F06	WF981292	2.47	2/9/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	878.18
WF981	F06	WF981292	2.47	2/9/98	CHAETOCEROS DEBILIS	5268.77
WF981	F06	WF981292	2.47	2/9/98	CHAETOCEROS DECIPIENS	2810.38
WF981	F06	WF981292	2.47	2/9/98	CHAETOCEROS SPP. (10-20UM)	NA
WF981	F06	WF981292	2.47	2/9/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	1855.84
WF981	F06	WF981292	2.47	2/9/98	CRYPTOMONAS SP. GROUP 2 LENGTH >10 MICRONS	627.27
WF981	F06	WF981292	2.47	2/9/98	CYLINDROTHECA CLOSTERIUM	10388.23
WF981	F06	WF981292	2.47	2/9/98	DICTYOCHEA SPECULUM	NA
WF981	F06	WF981292	2.47	2/9/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	5400.61
WF981	F06	WF981292	2.47	2/9/98	GYRODINIUM SP. GROUP 1 5-20UM W 10-20UM L	1214.85
WF981	F06	WF981292	2.47	2/9/98	GYRODINIUM SPIRALE	16452.27
WF981	F06	WF981292	2.47	2/9/98	HETEROCAPSA ROTUNDATA	106.28
WF981	F06	WF981292	2.47	2/9/98	NITZSCHIA SPP.	487.43
WF981	F06	WF981292	2.47	2/9/98	PENNATE DIATOMS SP. GROUP 7 20-30 MICRONS LENGTH	NA
WF981	F06	WF981292	2.47	2/9/98	PLEUROSIGMA SPP.	1587.57
WF981	F06	WF981292	2.47	2/9/98	PYRAMIMONAS SP. GROUP 1 10-20 MICRONS LENGTH	NA
WF981	F06	WF981292	2.47	2/9/98	RHIZOLENIA DELICATULA	3415.04
WF981	F06	WF981292	2.47	2/9/98	RHIZOLENIA SETIGERA	5276.82
WF981	F06	WF981292	2.47	2/9/98	SKELETONEMA COSTATUM GREV+CLEVE	180.36
WF981	F06	WF981292	2.47	2/9/98	THALASSIONEMA NITZSCHIOIDES	393.55
WF981	F06	WF981292	2.47	2/9/98	THALASSIOSIRA PUNCTIGERA	NA
WF981	F06	WF981292	2.47	2/9/98	THALASSIOSIRA ROTULA	19418.56
WF981	F06	WF981292	2.47	2/9/98	THALASSIOSIRA SP. GROUP 4 20-30 MICRONS LENGTH	3991.38
WF981	F06	WF981292	2.47	2/9/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	18849.81
WF981	F06	WF981292	2.47	2/9/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	20290.04
WF981	F06	WF981292	2.47	2/9/98	ATHECATE DINOFLAGELLATE	NA
WF981	F06	WF981292	2.47	2/9/98	CERATIUM FURCA	NA
WF981	F06	WF981292	2.47	2/9/98	CERATIUM FUSUS	61.02
WF981	F06	WF981292	2.47	2/9/98	CERATIUM TRIPOS	62.55
WF981	F06	WF981292	2.47	2/9/98	DINOPHYSIS ACUMINATA	3.12
WF981	F06	WF981292	2.47	2/9/98	DISTEPHANUS SPECULUM	38.64

Survey	Sta.	Sample Number	Depth (m)	Sampling Date	Plankton	Estimated Carbon Equivalence (ng Carbon/L)
WF982	F02	WF982037	12.12	2/26/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	879.44
WF982	F02	WF982037	12.12	2/26/98	CHAETOCEROS BOREALIS	7093.92
WF982	F02	WF982037	12.12	2/26/98	CHAETOCEROS DEBILIS	33185.27
WF982	F02	WF982037	12.12	2/26/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	4793.03
WF982	F02	WF982037	12.12	2/26/98	CRYPTOMONAS SP. GROUP 2 LENGTH >10 MICRONS	1884.52
WF982	F02	WF982037	12.12	2/26/98	EUTREPTIA/EUTREPTIELLA SPP.	NA
WF982	F02	WF982037	12.12	2/26/98	GYRODINIUM SPIRALE	263236.30
WF982	F02	WF982037	12.12	2/26/98	RHIZOLENIA FRAGILISSIMA	10024.56
WF982	F02	WF982037	12.12	2/26/98	RHIZOLENIA SETIGERA	10553.65
WF982	F02	WF982037	12.12	2/26/98	SKELETONEMA COSTATUM GREV+CLEVE	107784.89
WF982	F02	WF982037	12.12	2/26/98	THALASSIONEMA NITZSCHIOIDES	11019.50
WF982	F02	WF982037	12.12	2/26/98	THALASSIOSIRA DECIPIENS	38817.58
WF982	F02	WF982037	12.12	2/26/98	THALASSIOSIRA ROTULA	432756.47
WF982	F02	WF982037	12.12	2/26/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	97531.14
WF982	F02	WF982037	12.12	2/26/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	22859.22
WF982	F02	WF982037	12.12	2/26/98	AMYLAX TRIACANTHA	3.66
WF982	F02	WF982037	12.12	2/26/98	CERATIUM LONGIPES	49.17
WF982	F02	WF982037	12.12	2/26/98	CERATIUM TRIPOS	56.86
WF982	F02	WF982037	12.12	2/26/98	DISTEPHANUS SPECULUM	23.42
WF982	F02	WF982037	12.12	2/26/98	GYRODINIUM SPP.	2.52
WF982	F02	WF982037	12.12	2/26/98	MESODINIUM RUBRUM	NA
WF982	F02	WF982039	2.59	2/26/98	CALYCOMONAS WULFFII	125.23
WF982	F02	WF982039	2.59	2/26/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	2072.98
WF982	F02	WF982039	2.59	2/26/98	CHAETOCEROS DEBILIS	38306.42
WF982	F02	WF982039	2.59	2/26/98	CHAETOCEROS SEPTENTRIONALIS	NA
WF982	F02	WF982039	2.59	2/26/98	CHAETOCEROS SPP. (10-20UM)	NA
WF982	F02	WF982039	2.59	2/26/98	CHAETOCEROS SPP. (<10UM)	1722.08
WF982	F02	WF982039	2.59	2/26/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	5810.32
WF982	F02	WF982039	2.59	2/26/98	CRYPTOMONAS SP. GROUP 2 LENGTH >10 MICRONS	690.99
WF982	F02	WF982039	2.59	2/26/98	CYLINDROTHECA CLOSTERIUM	1269.67
WF982	F02	WF982039	2.59	2/26/98	EUTREPTIA/EUTREPTIELLA SPP.	NA
WF982	F02	WF982039	2.59	2/26/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	14278.18
WF982	F02	WF982039	2.59	2/26/98	GYRODINIUM SPIRALE	144779.96
WF982	F02	WF982039	2.59	2/26/98	ODONTELLA AURITA	9631.91
WF982	F02	WF982039	2.59	2/26/98	PENNATE DIATOMS SP. GROUP 8 10-20 MICRONS LENGTH	NA
WF982	F02	WF982039	2.59	2/26/98	PLEUROSIGMA SPP.	6985.31
WF982	F02	WF982039	2.59	2/26/98	RHIZOLENIA DELICATULA	3755.64
WF982	F02	WF982039	2.59	2/26/98	RHIZOLENIA STOLTERFOTHII	10009.95
WF982	F02	WF982039	2.59	2/26/98	SKELETONEMA COSTATUM GREV+CLEVE	44282.71
WF982	F02	WF982039	2.59	2/26/98	THALASSIONEMA NITZSCHIOIDES	4502.25
WF982	F02	WF982039	2.59	2/26/98	THALASSIOSIRA NORDENSKIOLDII CLEVE	509.53
WF982	F02	WF982039	2.59	2/26/98	THALASSIOSIRA ROTULA	170883.33
WF982	F02	WF982039	2.59	2/26/98	THALASSIOSIRA SPP.	33797.76
WF982	F02	WF982039	2.59	2/26/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	71638.20
WF982	F02	WF982039	2.59	2/26/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	16763.43
WF982	F02	WF982039	2.59	2/26/98	AMYLAX TRIACANTHA	11.72
WF982	F02	WF982039	2.59	2/26/98	ATHECATE DINOFLAGELLATE	NA
WF982	F02	WF982039	2.59	2/26/98	CERATIUM FURCA	NA
WF982	F02	WF982039	2.59	2/26/98	CERATIUM LONGIPES	59.01
WF982	F02	WF982039	2.59	2/26/98	CERATIUM TRIPOS	60.65

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WF982	F02	WF982039	2.59	2/26/98	DINOPHYSIS NORVEGICA	NA
WF982	F02	WF982039	2.59	2/26/98	DISTEPHANUS SPECULUM	12.01
WF982	F02	WF982039	2.59	2/26/98	EUGLENOID SPP.	NA
WF982	F02	WF982039	2.59	2/26/98	GYMNODINIUM SPP.	12.76
WF982	F02	WF982039	2.59	2/26/98	GYRODINIUM SPP.	2.02
WF982	F02	WF982039	2.59	2/26/98	MESODINIUM RUBRUM	NA
WF982	F02	WF982039	2.59	2/26/98	PROTOPERIDIUM BIPES	1.04
WF982	F02	WF982039	2.59	2/26/98	PROTOPERIDIUM SPP.	18.94
WF982	F27	WF98208D	51.24	2/26/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	1507.62
WF982	F27	WF98208D	51.24	2/26/98	COSCONODISCUS RADIATUS	10877.29
WF982	F27	WF98208D	51.24	2/26/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	3051.89
WF982	F27	WF98208D	51.24	2/26/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	3894.05
WF982	F27	WF98208D	51.24	2/26/98	GYRODINIUM SPP.	12208.15
WF982	F27	WF98208D	51.24	2/26/98	PSEUDONITZSCHIA PUNGENS	227.48
WF982	F27	WF98208D	51.24	2/26/98	THALASSIOSIRA ROTULA	6657.79
WF982	F27	WF98208D	51.24	2/26/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	46563.26
WF982	F27	WF98208D	51.24	2/26/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	6857.76
WF982	F27	WF98208D	51.24	2/26/98	CERATIUM FUSUS	7.40
WF982	F27	WF98208D	51.24	2/26/98	CERATIUM LINEATUM	19.12
WF982	F27	WF98208D	51.24	2/26/98	CERATIUM LONGIPES	540.88
WF982	F27	WF98208D	51.24	2/26/98	CERATIUM TRIPOS	454.88
WF982	F27	WF98208D	51.24	2/26/98	DISTEPHANUS SPECULUM	4.80
WF982	F27	WF98208F	2.57	2/26/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	1598.08
WF982	F27	WF98208F	2.57	2/26/98	CERATIUM TRIPOS	24258.35
WF982	F27	WF98208F	2.57	2/26/98	CHAETOCEROS BOREALIS	7532.21
WF982	F27	WF98208F	2.57	2/26/98	CHAETOCEROS SPP. (10-20UM)	NA
WF982	F27	WF98208F	2.57	2/26/98	CHOANOFAGELLATE SPP.	163.38
WF982	F27	WF98208F	2.57	2/26/98	COCONEIS SCUTELLUM EHRENB.	2471.63
WF982	F27	WF98208F	2.57	2/26/98	COSCONODISCUS EXCENTRICUS	1052.33
WF982	F27	WF98208F	2.57	2/26/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	2310.71
WF982	F27	WF98208F	2.57	2/26/98	CYLINDROTHECA CLOSTERIUM	978.80
WF982	F27	WF98208F	2.57	2/26/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	12039.10
WF982	F27	WF98208F	2.57	2/26/98	GYMNODINIUM SP. GROUP 5 20-30 MICRONS	NA
WF982	F27	WF98208F	2.57	2/26/98	PENNATE DIATOMS SP. GROUP 7 20-30 MICRONS LENGTH	NA
WF982	F27	WF98208F	2.57	2/26/98	SKELETONEMA COSTATUM GREV+CLEVE	428.25
WF982	F27	WF98208F	2.57	2/26/98	THALASSIONEMA NITZSCHIOIDES	133.49
WF982	F27	WF98208F	2.57	2/26/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	54025.96
WF982	F27	WF98208F	2.57	2/26/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	9086.54
WF982	F27	WF98208F	2.57	2/26/98	CERATIUM FUSUS	7.40
WF982	F27	WF98208F	2.57	2/26/98	CERATIUM LINEATUM	4.78
WF982	F27	WF98208F	2.57	2/26/98	CERATIUM LONGIPES	467.12
WF982	F27	WF98208F	2.57	2/26/98	CERATIUM TRIPOS	246.39
WF982	F27	WF98208F	2.57	2/26/98	DISTEPHANUS SPECULUM	8.41
WF982	F13	WF982104	11.77	2/27/98	CALYCOMONAS WULFFII	62.61
WF982	F13	WF982104	11.77	2/27/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	1381.98
WF982	F13	WF982104	11.77	2/27/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	4196.34
WF982	F13	WF982104	11.77	2/27/98	CYLINDROTHECA CLOSTERIUM	1271.81
WF982	F13	WF982104	11.77	2/27/98	DICTYOCHEA SPECULUM	NA
WF982	F13	WF982104	11.77	2/27/98	EUTREPTIA/EUTREPTIELLA SPP.	NA
WF982	F13	WF982104	11.77	2/27/98	GRAMMATOPHORA MARINA	320.49
WF982	F13	WF982104	11.77	2/27/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	9816.25

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WF982	F13	WF982104	11.77	2/27/98	GYMNODINIUM SP.GROUP 5 20-30 MICRONS	NA
WF982	F13	WF982104	11.77	2/27/98	HETEROCAPSA ROTUNDATA	175.62
WF982	F13	WF982104	11.77	2/27/98	PENNATE DIATOMS SP. GROUP 8 10-20 MICRONS LENGTH	NA
WF982	F13	WF982104	11.77	2/27/98	PLEUROSIGMA SPP.	2794.13
WF982	F13	WF982104	11.77	2/27/98	PROTOPERIDINIUM BREVIPIES	4718.02
WF982	F13	WF982104	11.77	2/27/98	PYRAMIMONAS/TETRASELMIS SPP.	NA
WF982	F13	WF982104	11.77	2/27/98	THALASSIOSIRA ROTULA	31735.47
WF982	F13	WF982104	11.77	2/27/98	THALASSIOSIRA SPP.	1877.65
WF982	F13	WF982104	11.77	2/27/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	52776.93
WF982	F13	WF982104	11.77	2/27/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	9429.43
WF982	F13	WF982104	11.77	2/27/98	ATHECATE DINOFLAGELLATE	NA
WF982	F13	WF982104	11.77	2/27/98	CERATIUM LINEATUM	8.99
WF982	F13	WF982104	11.77	2/27/98	CERATIUM LONGIPES	184.88
WF982	F13	WF982104	11.77	2/27/98	CERATIUM TRIPOS	89.08
WF982	F13	WF982104	11.77	2/27/98	DINOPHYSIS NORVEGICA	NA
WF982	F13	WF982104	11.77	2/27/98	DISTEPHANUS SPECULUM	9.03
WF982	F13	WF982104	11.77	2/27/98	GYMNODINIUM SPP.	9.99
WF982	F13	WF982104	11.77	2/27/98	MESODINIUM RUBRUM	NA
WF982	F13	WF982104	11.77	2/27/98	PROTOPERIDINIUM BIPES	1.23
WF982	F13	WF982104	11.77	2/27/98	PROTOPERIDINIUM BREVIPIES	6.68
WF982	F13	WF982104	11.77	2/27/98	PROTOPERIDINIUM DEPRESSUM	113.39
WF982	F13	WF982106	2.39	2/27/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	621.89
WF982	F13	WF982106	2.39	2/27/98	CHAETOCEROS DEBILIS	6964.80
WF982	F13	WF982106	2.39	2/27/98	CHAETOCEROS SPP. (10-20UM)	NA
WF982	F13	WF982106	2.39	2/27/98	CHAETOCEROS SPP.(<10UM)	172.21
WF982	F13	WF982106	2.39	2/27/98	CHOANOFAGELLATE SPP.	847.73
WF982	F13	WF982106	2.39	2/27/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	4142.55
WF982	F13	WF982106	2.39	2/27/98	CRYPTOMONAS SP. GROUP 2 LENGTH >10 MICRONS	1036.49
WF982	F13	WF982106	2.39	2/27/98	CYLINDROTHECA CLOSTERIUM	507.87
WF982	F13	WF982106	2.39	2/27/98	EUTREPTIA/EUTREPTIELLA SPP.	NA
WF982	F13	WF982106	2.39	2/27/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	12493.41
WF982	F13	WF982106	2.39	2/27/98	GYMNODINIUM SP.GROUP 5 20-30 MICRONS	NA
WF982	F13	WF982106	2.39	2/27/98	LEPTOCYLINDRUS MINIMUS	173.33
WF982	F13	WF982106	2.39	2/27/98	PENNATE DIATOMS SP. GROUP 7 20-30 MICRONS LENGTH	NA
WF982	F13	WF982106	2.39	2/27/98	PYRAMIMONAS/TETRASELMIS SPP.	NA
WF982	F13	WF982106	2.39	2/27/98	SKELETONEMA COSTATUM GREV+CLEVE	634.88
WF982	F13	WF982106	2.39	2/27/98	THALASSIONEMA NITZSCHIOIDES	554.12
WF982	F13	WF982106	2.39	2/27/98	THALASSIOSIRA ROTULA	61029.76
WF982	F13	WF982106	2.39	2/27/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	64889.67
WF982	F13	WF982106	2.39	2/27/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	3143.14
WF982	F13	WF982106	2.39	2/27/98	CERATIUM FUSUS	6.95
WF982	F13	WF982106	2.39	2/27/98	CERATIUM LINEATUM	8.99
WF982	F13	WF982106	2.39	2/27/98	CERATIUM LONGIPES	161.77
WF982	F13	WF982106	2.39	2/27/98	CERATIUM TRIPOS	160.35
WF982	F13	WF982106	2.39	2/27/98	DINOPHYSIS NORVEGICA	NA
WF982	F13	WF982106	2.39	2/27/98	DISTEPHANUS SPECULUM	6.77
WF982	F13	WF982106	2.39	2/27/98	GYMNODINIUM SPP.	5.00
WF982	F13	WF982106	2.39	2/27/98	MESODINIUM RUBRUM	NA
WF982	F25	WF982120	4.93	2/27/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	1507.62
WF982	F25	WF982120	4.93	2/27/98	CERATIUM TRIPOS	22885.23

Survey	Sta.	Sample Number	Depth (m)	Sampling Date	Plankton	Estimated Carbon Equivalence (ng Carbon/L)
WF982	F25	WF982120	4.93	2/27/98	CHAETOCEROS DEBILIS	1896.30
WF982	F25	WF982120	4.93	2/27/98	CHAETOCEROS SPP.($<10\mu\text{M}$)	417.47
WF982	F25	WF982120	4.93	2/27/98	CHOANOFAGELLATE SPP.	411.02
WF982	F25	WF982120	4.93	2/27/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	6586.34
WF982	F25	WF982120	4.93	2/27/98	CRYPTOMONAS SP. GROUP 2 LENGTH >10 MICRONS	1256.35
WF982	F25	WF982120	4.93	2/27/98	CYLINDROTHECA CLOSTERIUM	4624.76
WF982	F25	WF982120	4.93	2/27/98	EUTREPTIA/EUTREPTIELLA SPP.	NA
WF982	F25	WF982120	4.93	2/27/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	5408.40
WF982	F25	WF982120	4.93	2/27/98	GYMNODINIUM SP.GROUP 5 20-30 MICRONS	NA
WF982	F25	WF982120	4.93	2/27/98	HETEROCAPSA ROTUNDATA	212.87
WF982	F25	WF982120	4.93	2/27/98	NITZSCHIA SPP.	3906.02
WF982	F25	WF982120	4.93	2/27/98	PARALIA SULCATA	1203.25
WF982	F25	WF982120	4.93	2/27/98	PENNATE DIATOMS SP. GROUP 7 20-30 MICRONS LENGTH	NA
WF982	F25	WF982120	4.93	2/27/98	PENNATE DIATOMS SP. GROUP 8 10-20 MICRONS LENGTH	NA
WF982	F25	WF982120	4.93	2/27/98	PLEUROSIGMA SPP.	2540.11
WF982	F25	WF982120	4.93	2/27/98	SKELETONEMA COSTATUM GREV+CLEVE	1500.62
WF982	F25	WF982120	4.93	2/27/98	THALASSIOSIRA NORDENSKIOLDII CLEVE	618.65
WF982	F25	WF982120	4.93	2/27/98	THALASSIOSIRA ROTULA	51043.07
WF982	F25	WF982120	4.93	2/27/98	THALASSIOSIRA SPP.	4089.82
WF982	F25	WF982120	4.93	2/27/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	62923.32
WF982	F25	WF982120	4.93	2/27/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	8889.70
WF982	F25	WF982120	4.93	2/27/98	ATHECATE DINOFLAGELLATE	NA
WF982	F25	WF982120	4.93	2/27/98	CERATIUM FUSUS	14.79
WF982	F25	WF982120	4.93	2/27/98	CERATIUM LONGIPES	172.10
WF982	F25	WF982120	4.93	2/27/98	CERATIUM SPP.	38.98
WF982	F25	WF982120	4.93	2/27/98	CERATIUM TRIPOS	113.72
WF982	F25	WF982120	4.93	2/27/98	DICTYOCHA FIBULA	2.09
WF982	F25	WF982120	4.93	2/27/98	DISTEPHANUS SPECULUM	1.20
WF982	F25	WF982120	4.93	2/27/98	MESODINIUM RUBRUM	NA
WF982	F25	WF982122	2.33	2/27/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	2130.77
WF982	F25	WF982122	2.33	2/27/98	CHAETOCEROS DEBILIS	1340.05
WF982	F25	WF982122	2.33	2/27/98	CHAETOCEROS SPP. (10-20UM)	NA
WF982	F25	WF982122	2.33	2/27/98	CHAETOCEROS SPP.($<10\mu\text{M}$)	221.26
WF982	F25	WF982122	2.33	2/27/98	CHAETOCEROS SUBTILIS	714.47
WF982	F25	WF982122	2.33	2/27/98	CHOANOFAGELLATE SPP.	653.53
WF982	F25	WF982122	2.33	2/27/98	COCCONEIS SCUTELLUM EHRENB.	1647.76
WF982	F25	WF982122	2.33	2/27/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	4510.34
WF982	F25	WF982122	2.33	2/27/98	CRYPTOMONAS SP. GROUP 2 LENGTH >10 MICRONS	887.82
WF982	F25	WF982122	2.33	2/27/98	CYANOBACTERIA SPP.	NA
WF982	F25	WF982122	2.33	2/27/98	CYLINDROTHECA CLOSTERIUM	2447.00
WF982	F25	WF982122	2.33	2/27/98	EUTREPTIA/EUTREPTIELLA SPP.	NA
WF982	F25	WF982122	2.33	2/27/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	3439.74
WF982	F25	WF982122	2.33	2/27/98	GYMNODINIUM SP.GROUP 5 20-30 MICRONS	NA
WF982	F25	WF982122	2.33	2/27/98	GYROSIGMA SPP.	8990.17
WF982	F25	WF982122	2.33	2/27/98	HETEROCAPSA ROTUNDATA	135.16
WF982	F25	WF982122	2.33	2/27/98	MELOSIRA SPP.	518.84
WF982	F25	WF982122	2.33	2/27/98	PENNATE DIATOMS SP. GROUP 7 20-30 MICRONS LENGTH	NA
WF982	F25	WF982122	2.33	2/27/98	PENNATE DIATOMS SP. GROUP 8 10-20 MICRONS LENGTH	NA

Survey	Sta.	Sample Number	Depth (m)	Sampling Date	Plankton	Estimated Carbon Equivalence (ng Carbon/L)
WF982	F25	WF982122	2.33	2/27/98	PYRAMIMONAS/TETRASELMIS SPP.	NA
WF982	F25	WF982122	2.33	2/27/98	SKELETONEMA COSTATUM GREV+CLEVE	734.15
WF982	F25	WF982122	2.33	2/27/98	THALASSIOSIRA NORDENSKIOLDII CLEVE	1092.95
WF982	F25	WF982122	2.33	2/27/98	THALASSIOSIRA ROTULA	30581.46
WF982	F25	WF982122	2.33	2/27/98	THALASSIOSIRA SPP.	6502.81
WF982	F25	WF982122	2.33	2/27/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	83818.06
WF982	F25	WF982122	2.33	2/27/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	6730.77
WF982	F25	WF982122	2.33	2/27/98	CERATIUM LINEATUM	4.30
WF982	F25	WF982122	2.33	2/27/98	CERATIUM LONGIPES	641.68
WF982	F25	WF982122	2.33	2/27/98	CERATIUM SPP.	11.69
WF982	F25	WF982122	2.33	2/27/98	CERATIUM TRIPOS	289.99
WF982	F25	WF982122	2.33	2/27/98	DISTEPHANUS SPECULUM	4.86
WF982	F25	WF982122	2.33	2/27/98	PROTOPERIDINIUM DEPRESSUM	217.14
WF982	N16	WF982140	19.45	2/27/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	1131.97
WF982	N16	WF982140	19.45	2/27/98	CHAETOCEROS DEBILIS	5033.65
WF982	N16	WF982140	19.45	2/27/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	4095.59
WF982	N16	WF982140	19.45	2/27/98	CRYPTOMONAS SP. GROUP 2 LENGTH >10 MICRONS	332.93
WF982	N16	WF982140	19.45	2/27/98	CYLINDROTHECA CLOSTERIUM	978.80
WF982	N16	WF982140	19.45	2/27/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	5159.62
WF982	N16	WF982140	19.45	2/27/98	PENNATE DIATOM SP. GROUP 9 >30 MICRONS LENGTH	NA
WF982	N16	WF982140	19.45	2/27/98	PENNATE DIATOMS SP. GROUP 8 10-20 MICRONS LENGTH	NA
WF982	N16	WF982140	19.45	2/27/98	THALASSIOSIRA ROTULA	4704.84
WF982	N16	WF982140	19.45	2/27/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	53025.48
WF982	N16	WF982140	19.45	2/27/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	8076.92
WF982	N16	WF982140	19.45	2/27/98	ATHECATE DINOFLAGELLATE	NA
WF982	N16	WF982140	19.45	2/27/98	CERATIUM FUSUS	17.75
WF982	N16	WF982140	19.45	2/27/98	CERATIUM LONGIPES	265.52
WF982	N16	WF982140	19.45	2/27/98	CERATIUM SPP.	15.59
WF982	N16	WF982140	19.45	2/27/98	CERATIUM TRIPOS	227.44
WF982	N16	WF982140	19.45	2/27/98	DINOPHYSIS NORVEGICA	NA
WF982	N16	WF982140	19.45	2/27/98	DISTEPHANUS SPECULUM	2.88
WF982	N16	WF982140	19.45	2/27/98	GYMNODINIUM SPP.	6.38
WF982	N16	WF982140	19.45	2/27/98	PROTOPERIDINIUM SPP.	9.47
WF982	N16	WF982140	19.45	2/27/98	THECATE DINOFLAGELLATE SPP.	NA
WF982	N16	WF982142	2.46	2/27/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	690.99
WF982	N16	WF982142	2.46	2/27/98	CERATIUM LONGIPES	74339.40
WF982	N16	WF982142	2.46	2/27/98	CHAETOCEROS SPP. (<10UM)	469.66
WF982	N16	WF982142	2.46	2/27/98	CHOANOFLAGELLATE SPP.	616.53
WF982	N16	WF982142	2.46	2/27/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	3814.86
WF982	N16	WF982142	2.46	2/27/98	CRYPTOMONAS SP. GROUP 2 LENGTH >10 MICRONS	628.17
WF982	N16	WF982142	2.46	2/27/98	DICTYOCHA SPECULUM	NA
WF982	N16	WF982142	2.46	2/27/98	EUTREPTIA/EUTREPTIELLA SPP.	NA
WF982	N16	WF982142	2.46	2/27/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	8112.60
WF982	N16	WF982142	2.46	2/27/98	GYMNODINIUM SP. GROUP 5 20-30 MICRONS	NA
WF982	N16	WF982142	2.46	2/27/98	GYRODINIUM SPIRALE	26323.63
WF982	N16	WF982142	2.46	2/27/98	PSEUDONITZSCHIA PUNGENS	1668.21
WF982	N16	WF982142	2.46	2/27/98	THALASSIONEMA NITZSCHIOIDES	377.81
WF982	N16	WF982142	2.46	2/27/98	THALASSIOSIRA DECIPIENS	2066.79
WF982	N16	WF982142	2.46	2/27/98	THALASSIOSIRA ROTULA	15534.85
WF982	N16	WF982142	2.46	2/27/98	THALASSIOSIRA SPP.	3413.92
WF982	N16	WF982142	2.46	2/27/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	46720.56

Survey	Sta.	Sample Number	Depth (m)	Sampling Date	Plankton	Estimated Carbon Equivalence (ng Carbon/L)
WF982	N16	WF982142	2.46	2/27/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	4762.34
WF982	N16	WF982142	2.46	2/27/98	CERATIUM FUSUS	33.28
WF982	N16	WF982142	2.46	2/27/98	CERATIUM LINEATUM	4.30
WF982	N16	WF982142	2.46	2/27/98	CERATIUM LONGIPES	398.29
WF982	N16	WF982142	2.46	2/27/98	CERATIUM TRIPOS	375.28
WF982	N16	WF982142	2.46	2/27/98	DISTEPHANUS SPECULUM	7.57
WF982	F24	WF982169	9.36	2/27/98	ASTERIONELLA FORMOSA	46.32
WF982	F24	WF982169	9.36	2/27/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	930.65
WF982	F24	WF982169	9.36	2/27/98	CHAETOCEROS SPP. (10-20UM)	NA
WF982	F24	WF982169	9.36	2/27/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	3608.27
WF982	F24	WF982169	9.36	2/27/98	CYANOBACTERIA SPP.	NA
WF982	F24	WF982169	9.36	2/27/98	CYLINDROTHECA CLOSTERIUM	3262.67
WF982	F24	WF982169	9.36	2/27/98	EUTREPTIA/EUTREPTIELLA SPP.	NA
WF982	F24	WF982169	9.36	2/27/98	GRAMMATOPHORA MARINA	257.37
WF982	F24	WF982169	9.36	2/27/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	7739.42
WF982	F24	WF982169	9.36	2/27/98	GYMNODINIUM SP.GROUP 5 20-30 MICRONS	NA
WF982	F24	WF982169	9.36	2/27/98	ODONTELLA AURITA	9297.28
WF982	F24	WF982169	9.36	2/27/98	PARALIA SULCATA	1771.46
WF982	F24	WF982169	9.36	2/27/98	PENNATE DIATOMS SP. GROUP 7 20-30 MICRONS LENGTH	NA
WF982	F24	WF982169	9.36	2/27/98	PLEUROSIGMA SPP.	6731.30
WF982	F24	WF982169	9.36	2/27/98	THALASSIONEMA NITZSCHIOIDES	444.98
WF982	F24	WF982169	9.36	2/27/98	THALASSIOSIRA ROTULA	23524.20
WF982	F24	WF982169	9.36	2/27/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	59195.11
WF982	F24	WF982169	9.36	2/27/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	9086.54
WF982	F24	WF982169	9.36	2/27/98	ATHECATE DINOFLAGELLATE	NA
WF982	F24	WF982169	9.36	2/27/98	CERATIUM FUSUS	29.59
WF982	F24	WF982169	9.36	2/27/98	CERATIUM LONGIPES	393.37
WF982	F24	WF982169	9.36	2/27/98	CERATIUM TRIPOS	322.21
WF982	F24	WF982169	9.36	2/27/98	DINOPHYSIS NORVEGICA	NA
WF982	F24	WF982169	9.36	2/27/98	DISTEPHANUS SPECULUM	13.81
WF982	F24	WF982169	9.36	2/27/98	MESODINIUM RUBRUM	NA
WF982	F24	WF982169	9.36	2/27/98	PROTOPERIDINIUM DEPRESSUM	120.63
WF982	F24	WF98216B	2.75	2/27/98	ASTERIONELLA FORMOSA	525.22
WF982	F24	WF98216B	2.75	2/27/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	1319.17
WF982	F24	WF98216B	2.75	2/27/98	CHAETOCEROS DEBILIS	4424.70
WF982	F24	WF98216B	2.75	2/27/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	4499.58
WF982	F24	WF98216B	2.75	2/27/98	CRYPTOMONAS SP. GROUP 2 LENGTH >10 MICRONS	314.09
WF982	F24	WF98216B	2.75	2/27/98	CYLINDROTHECA CLOSTERIUM	1846.80
WF982	F24	WF98216B	2.75	2/27/98	EUTREPTIA/EUTREPTIELLA SPP.	NA
WF982	F24	WF98216B	2.75	2/27/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	12168.90
WF982	F24	WF98216B	2.75	2/27/98	NITZSCHIA SPP.	389.95
WF982	F24	WF98216B	2.75	2/27/98	PARALIA SULCATA	802.17
WF982	F24	WF98216B	2.75	2/27/98	PENNATE DIATOMS SP. GROUP 7 20-30 MICRONS LENGTH	NA
WF982	F24	WF98216B	2.75	2/27/98	PENNATE DIATOMS SP. GROUP 8 10-20 MICRONS LENGTH	NA
WF982	F24	WF98216B	2.75	2/27/98	RHIZOSOLENIA SETIGERA	4221.46
WF982	F24	WF98216B	2.75	2/27/98	THALASSIOSIRA DECIPIENS	2066.79
WF982	F24	WF98216B	2.75	2/27/98	THALASSIOSIRA NORDENSKIOLDII CLEVE	309.33
WF982	F24	WF98216B	2.75	2/27/98	THALASSIOSIRA ROTULA	49933.44
WF982	F24	WF98216B	2.75	2/27/98	THALASSIOSIRA SPP.	4089.82
WF982	F24	WF98216B	2.75	2/27/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	53484.82

Appendix K

Survey	Sta.	Sample Number	Depth (m)	Sampling Date	Plankton	Estimated Carbon Equivalence (ng Carbon/L)
WF982	F24	WF98216B	2.75	2/27/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	2857.40
WF982	F24	WF98216B	2.75	2/27/98	ATHECATE DINOFLAGELLATE	NA
WF982	F24	WF98216B	2.75	2/27/98	CERATIUM FUSUS	8.51
WF982	F24	WF98216B	2.75	2/27/98	CERATIUM LONGIPES	367.55
WF982	F24	WF98216B	2.75	2/27/98	CERATIUM SPP.	14.94
WF982	F24	WF98216B	2.75	2/27/98	CERATIUM TRIPOS	174.37
WF982	F24	WF98216B	2.75	2/27/98	DINOPHYSIS NORVEGICA	NA
WF982	F24	WF98216B	2.75	2/27/98	DISTEPHANUS SPECULUM	11.05
WF982	F24	WF98216B	2.75	2/27/98	MESODINIUM RUBRUM	NA
WF982	F24	WF98216B	2.75	2/27/98	SCRIPPSIELLA TROCHOIDEA	2.02
WF982	F30	WF982182	5.78	2/27/98	ACHNANTHES SPP.	69.41
WF982	F30	WF982182	5.78	2/27/98	ASTERIONELLA FORMOSA	245.39
WF982	F30	WF982182	5.78	2/27/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	3658.49
WF982	F30	WF982182	5.78	2/27/98	CHAETOCEROS SPP. (10-20UM)	NA
WF982	F30	WF982182	5.78	2/27/98	CHOANOFAGELLATE SPP.	961.79
WF982	F30	WF982182	5.78	2/27/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	7934.91
WF982	F30	WF982182	5.78	2/27/98	CRYPTOMONAS SP. GROUP 2 LENGTH >10 MICRONS	653.30
WF982	F30	WF982182	5.78	2/27/98	DICTYOCHA SPECULUM	NA
WF982	F30	WF982182	5.78	2/27/98	DINOBYRON SPP.	94.34
WF982	F30	WF982182	5.78	2/27/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	23623.90
WF982	F30	WF982182	5.78	2/27/98	GYMNODINIUM SP. GROUP 5 20-30 MICRONS	NA
WF982	F30	WF982182	5.78	2/27/98	GYRODINIUM SPIRALE	13688.29
WF982	F30	WF982182	5.78	2/27/98	GYROSIGMA SPP.	2641.72
WF982	F30	WF982182	5.78	2/27/98	PENNATE DIATOM SP. GROUP 9 >30 MICRONS LENGTH	NA
WF982	F30	WF982182	5.78	2/27/98	PENNATE DIATOMS SP. GROUP 7 20-30 MICRONS LENGTH	NA
WF982	F30	WF982182	5.78	2/27/98	PENNATE DIATOMS SP. GROUP 8 10-20 MICRONS LENGTH	NA
WF982	F30	WF982182	5.78	2/27/98	PLEUROSIGMA SPP.	3962.58
WF982	F30	WF982182	5.78	2/27/98	PYRAMIMONAS/TETRAELEMIS SPP.	NA
WF982	F30	WF982182	5.78	2/27/98	SKELETONEMA COSTATUM GREV+CLEVE	300.12
WF982	F30	WF982182	5.78	2/27/98	THALASSIOSIRA ROTULA	18464.28
WF982	F30	WF982182	5.78	2/27/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	106667.61
WF982	F30	WF982182	5.78	2/27/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	7924.53
WF982	F30	WF982182	5.78	2/27/98	ATHECATE DINOFLAGELLATE	NA
WF982	F30	WF982182	5.78	2/27/98	CERATIUM FURCA	NA
WF982	F30	WF982182	5.78	2/27/98	CERATIUM FUSUS	17.01
WF982	F30	WF982182	5.78	2/27/98	CERATIUM LONGIPES	84.82
WF982	F30	WF982182	5.78	2/27/98	CERATIUM TRIPOS	65.39
WF982	F30	WF982182	5.78	2/27/98	DISTEPHANUS SPECULUM	4.83
WF982	F30	WF982182	5.78	2/27/98	MESODINIUM RUBRUM	NA
WF982	F30	WF982182	5.78	2/27/98	PROROCENTRUM MICANS	1.78
WF982	F30	WF982182	5.78	2/27/98	PROTOPERIDINIUM DEPRESSUM	277.45
WF982	F30	WF982182	5.78	2/27/98	PROTOPERIDINIUM SPP.	9.08
WF982	F30	WF982183	2.44	2/27/98	ASTERIONELLA FORMOSA	254.83
WF982	F30	WF982183	2.44	2/27/98	CALYCOMONAS WULFFII	122.95
WF982	F30	WF982183	2.44	2/27/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	3256.46
WF982	F30	WF982183	2.44	2/27/98	CHAETOCEROS SPP. (10-20UM)	NA
WF982	F30	WF982183	2.44	2/27/98	CHOANOFAGELLATE SPP.	332.93
WF982	F30	WF982183	2.44	2/27/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	6127.25
WF982	F30	WF982183	2.44	2/27/98	CRYPTOMONAS SP. GROUP 2 LENGTH >10 MICRONS	678.43
WF982	F30	WF982183	2.44	2/27/98	CYLINDROTHECA CLOSTERIUM	249.32

Survey	Sta.	Sample Number	Depth (m)	Sampling Date	Plankton	Estimated Carbon Equivalence (ng Carbon/L)
WF982	F30	WF982183	2.44	2/27/98	DICTYOCHA SPECULUM	NA
WF982	F30	WF982183	2.44	2/27/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	8761.61
WF982	F30	WF982183	2.44	2/27/98	GYMNODINIUM SP.GROUP 5 20-30 MICRONS	NA
WF982	F30	WF982183	2.44	2/27/98	GYROSIGMA SPP.	1371.66
WF982	F30	WF982183	2.44	2/27/98	HETEROCAPSA ROTUNDATA	34.43
WF982	F30	WF982183	2.44	2/27/98	MELOSIRA SPP.	176.21
WF982	F30	WF982183	2.44	2/27/98	PENNATE DIATOM SP. GROUP 9 >30 MICRONS LENGTH	NA
WF982	F30	WF982183	2.44	2/27/98	PENNATE DIATOMS SP. GROUP 7 20-30 MICRONS LENGTH	NA
WF982	F30	WF982183	2.44	2/27/98	PENNATE DIATOMS SP. GROUP 8 10-20 MICRONS LENGTH	NA
WF982	F30	WF982183	2.44	2/27/98	PLEUROSIGMA SPP.	1371.66
WF982	F30	WF982183	2.44	2/27/98	SCENEDESMUS QUADRICAUDA	19.20
WF982	F30	WF982183	2.44	2/27/98	SKELETONEMA COSTATUM GREV+CLEVE	218.17
WF982	F30	WF982183	2.44	2/27/98	SURIRELLA SPP.	1609.73
WF982	F30	WF982183	2.44	2/27/98	SYNEDRA SPP.	2359.70
WF982	F30	WF982183	2.44	2/27/98	THALASSIONEMA NITZSCHIOIDES	136.01
WF982	F30	WF982183	2.44	2/27/98	THALASSIOSIRA ROTULA	19174.44
WF982	F30	WF982183	2.44	2/27/98	THALASSIOSIRA SPP.	2576.58
WF982	F30	WF982183	2.44	2/27/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	129118.65
WF982	F30	WF982183	2.44	2/27/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	10286.65
WF982	F30	WF982183	2.44	2/27/98	ATHECATE DINOFLAGELLATE	NA
WF982	F30	WF982183	2.44	2/27/98	DICTYOCHA SPECULUM	NA
WF982	F30	WF982183	2.44	2/27/98	GYRODINIUM SPP.	3.28
WF982	F30	WF982183	2.44	2/27/98	MESODINIUM RUBRUM	NA
WF982	F30	WF982183	2.44	2/27/98	THECATE DINOFLAGELLATE SPP.	NA
WF982	F23	WF982191	11.72	2/28/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	1065.38
WF982	F23	WF982191	11.72	2/28/98	CHAETOCEROS DEBILIS	2010.08
WF982	F23	WF982191	11.72	2/28/98	CHAETOCEROS SPP.(<10UM)	497.84
WF982	F23	WF982191	11.72	2/28/98	CHOANOFLAGELLATE SPP.	490.14
WF982	F23	WF982191	11.72	2/28/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	4147.44
WF982	F23	WF982191	11.72	2/28/98	CRYPTOMONAS SP. GROUP 2 LENGTH >10 MICRONS	332.93
WF982	F23	WF982191	11.72	2/28/98	CYANOBACTERIA SPP.	NA
WF982	F23	WF982191	11.72	2/28/98	CYLINDROTHECA CLOSTERIUM	1468.20
WF982	F23	WF982191	11.72	2/28/98	EUTREPTIA/EUTREPTIELLA SPP.	NA
WF982	F23	WF982191	11.72	2/28/98	GRAMMATOPHORA MARINA	1546.79
WF982	F23	WF982191	11.72	2/28/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	6879.49
WF982	F23	WF982191	11.72	2/28/98	GYMNODINIUM SP.GROUP 5 20-30 MICRONS	NA
WF982	F23	WF982191	11.72	2/28/98	PARALIA SULCATA	2129.33
WF982	F23	WF982191	11.72	2/28/98	PENNATE DIATOMS SP. GROUP 7 20-30 MICRONS LENGTH	NA
WF982	F23	WF982191	11.72	2/28/98	PENNATE DIATOMS SP. GROUP 8 10-20 MICRONS LENGTH	NA
WF982	F23	WF982191	11.72	2/28/98	PLEUROSIGMA SPP.	6742.63
WF982	F23	WF982191	11.72	2/28/98	SKELETONEMA COSTATUM GREV+CLEVE	1378.85
WF982	F23	WF982191	11.72	2/28/98	THALASSIONEMA NITZSCHIOIDES	667.47
WF982	F23	WF982191	11.72	2/28/98	THALASSIOSIRA ROTULA	44695.98
WF982	F23	WF982191	11.72	2/28/98	THALASSIOSIRA SPP.	7237.50
WF982	F23	WF982191	11.72	2/28/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	58027.88
WF982	F23	WF982191	11.72	2/28/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	2019.23
WF982	F23	WF982191	11.72	2/28/98	ATHECATE DINOFLAGELLATE	NA

Appendix K

Survey	Sta.	Sample Number	Depth (m)	Sampling Date	Plankton	Estimated Carbon Equivalence (ng Carbon/L)
WF982	F23	WF982191	11.72	2/28/98	CERATIUM LONGIPES	33.68
WF982	F23	WF982191	11.72	2/28/98	DICTYOCHA SPECULUM	NA
WF982	F23	WF982191	11.72	2/28/98	MESODINIUM RUBRUM	NA
WF982	F23	WF982193	2.54	2/28/98	ASTERIONELLA FORMOSA	109.06
WF982	F23	WF982193	2.54	2/28/98	ASTERIONELLOPSIS GLACIALIS	1149.21
WF982	F23	WF982193	2.54	2/28/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	1437.26
WF982	F23	WF982193	2.54	2/28/98	CHAETOCEROS DEBILIS	2629.54
WF982	F23	WF982193	2.54	2/28/98	CHAETOCEROS SPP. (10-20UM)	NA
WF982	F23	WF982193	2.54	2/28/98	CHOANOFLLAGELLATE SPP.	641.19
WF982	F23	WF982193	2.54	2/28/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	5493.40
WF982	F23	WF982193	2.54	2/28/98	CYLINDROTHECA CLOSTERIUM	1440.50
WF982	F23	WF982193	2.54	2/28/98	EUTREPTIA/EUTREPTIELLA SPP.	NA
WF982	F23	WF982193	2.54	2/28/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	3374.84
WF982	F23	WF982193	2.54	2/28/98	GYMNODINIUM SP. GROUP 5 20-30 MICRONS	NA
WF982	F23	WF982193	2.54	2/28/98	GYRODINIUM SPIRALE	27376.58
WF982	F23	WF982193	2.54	2/28/98	MELOSIRA SPP.	509.05
WF982	F23	WF982193	2.54	2/28/98	PENNATE DIATOMS SP. GROUP 7 20-30 MICRONS LENGTH	NA
WF982	F23	WF982193	2.54	2/28/98	PENNATE DIATOMS SP. GROUP 8 10-20 MICRONS LENGTH	NA
WF982	F23	WF982193	2.54	2/28/98	PLEUROSIGMA SPP.	5283.44
WF982	F23	WF982193	2.54	2/28/98	PYRAMIMONAS/TETRASELMIS SPP.	NA
WF982	F23	WF982193	2.54	2/28/98	SKELETONEMA COSTATUM GREV+CLEVE	180.07
WF982	F23	WF982193	2.54	2/28/98	THALASSIONEMA NITZSCHIOIDES	130.97
WF982	F23	WF982193	2.54	2/28/98	THALASSIOSIRA NORDENSKIOLDII CLEVE	128.46
WF982	F23	WF982193	2.54	2/28/98	THALASSIOSIRA ROTULA	53084.79
WF982	F23	WF982193	2.54	2/28/98	THALASSIOSIRA SPP.	4253.41
WF982	F23	WF982193	2.54	2/28/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	106667.61
WF982	F23	WF982193	2.54	2/28/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	13867.92
WF982	F23	WF982193	2.54	2/28/98	CERATIUM FUSUS	17.61
WF982	F23	WF982193	2.54	2/28/98	DISTEPHANUS SPECULUM	10.01
WF982	F23	WF982193	2.54	2/28/98	MESODINIUM RUBRUM	NA
WF982	N18	WF9821B9	12.23	2/28/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	615.11
WF982	N18	WF9821B9	12.23	2/28/98	CHAETOCEROS BOREALIS	1447.16
WF982	N18	WF9821B9	12.23	2/28/98	CHOANOFLLAGELLATE SPP.	125.77
WF982	N18	WF9821B9	12.23	2/28/98	COSCINODISCUS EXCENTRICUS	2028.65
WF982	N18	WF9821B9	12.23	2/28/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	1945.58
WF982	N18	WF9821B9	12.23	2/28/98	CRYPTOMONAS SP. GROUP 2 LENGTH >10 MICRONS	256.30
WF982	N18	WF9821B9	12.23	2/28/98	CYLINDROTHECA CLOSTERIUM	943.45
WF982	N18	WF9821B9	12.23	2/28/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	20521.64
WF982	N18	WF9821B9	12.23	2/28/98	GYRODINIUM SPIRALE	13425.05
WF982	N18	WF9821B9	12.23	2/28/98	PENNATE DIATOMS SP. GROUP 8 10-20 MICRONS LENGTH	NA
WF982	N18	WF9821B9	12.23	2/28/98	THALASSIOSIRA ROTULA	22674.58
WF982	N18	WF9821B9	12.23	2/28/98	THALASSIOSIRA SPP.	695.27
WF982	N18	WF9821B9	12.23	2/28/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	48393.07
WF982	N18	WF9821B9	12.23	2/28/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	777.21
WF982	N18	WF9821B9	12.23	2/28/98	ATHECATE DINOFLAGELLATE	NA
WF982	N18	WF9821B9	12.23	2/28/98	CERATIUM FURCA	NA
WF982	N18	WF9821B9	12.23	2/28/98	CERATIUM FUSUS	22.19
WF982	N18	WF9821B9	12.23	2/28/98	CERATIUM LONGIPES	934.25
WF982	N18	WF9821B9	12.23	2/28/98	CERATIUM SPP.	12.99

Survey	Sta.	Sample Number	Depth (m)	Sampling Date	Plankton	Estimated Carbon Equivalence (ng Carbon/L)
WF982	N18	WF9821B9	12.23	2/28/98	CERATIUM TRIPOS	360.11
WF982	N18	WF9821B9	12.23	2/28/98	MESODINIUM RUBRUM	NA
WF982	N18	WF9821B9	12.23	2/28/98	PROTOPERIDINIUM DEPRESSUM	120.63
WF982	N18	WF9821BB	2.30	2/28/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	3462.50
WF982	N18	WF9821BB	2.30	2/28/98	CERATIUM TRIPOS	24258.35
WF982	N18	WF9821BB	2.30	2/28/98	CHAETOCEROS DEBILIS	2010.08
WF982	N18	WF9821BB	2.30	2/28/98	CHAETOCEROS SPP. (10-20UM)	NA
WF982	N18	WF9821BB	2.30	2/28/98	CHAETOCEROS SPP.<10UM)	165.95
WF982	N18	WF9821BB	2.30	2/28/98	CHOANOFLLAGELLATE SPP.	163.38
WF982	N18	WF9821BB	2.30	2/28/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	2369.96
WF982	N18	WF9821BB	2.30	2/28/98	CYLINDROTHECA CLOSTERIUM	489.40
WF982	N18	WF9821BB	2.30	2/28/98	DICTYOCHA SPECULUM	NA
WF982	N18	WF9821BB	2.30	2/28/98	GRAMMATOPHORA MARINA	308.84
WF982	N18	WF9821BB	2.30	2/28/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	15478.85
WF982	N18	WF9821BB	2.30	2/28/98	GYMNODINIUM SP.GROUP 5 20-30 MICRONS	NA
WF982	N18	WF9821BB	2.30	2/28/98	PENNATE DIATOMS SP. GROUP 7 20-30 MICRONS LENGTH	NA
WF982	N18	WF9821BB	2.30	2/28/98	PROTOPERIDINIUM BREVIPIES	4546.45
WF982	N18	WF9821BB	2.30	2/28/98	PSEUDONITZSCHIA PUNGENS	1125.29
WF982	N18	WF9821BB	2.30	2/28/98	RHIZOLENIA SETIGERA	4474.75
WF982	N18	WF9821BB	2.30	2/28/98	THALASSIOSIRA SPP.	1445.07
WF982	N18	WF9821BB	2.30	2/28/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	53192.23
WF982	N18	WF9821BB	2.30	2/28/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	6057.69
WF982	N18	WF9821BB	2.30	2/28/98	CERATIUM FURCA	NA
WF982	N18	WF9821BB	2.30	2/28/98	CERATIUM FUSUS	23.92
WF982	N18	WF9821BB	2.30	2/28/98	CERATIUM LONGIPES	914.37
WF982	N18	WF9821BB	2.30	2/28/98	CERATIUM TRIPOS	643.61
WF982	N18	WF9821BB	2.30	2/28/98	DISTEPHANUS SPECULUM	22.33
WF982	N18	WF9821BB	2.30	2/28/98	MESODINIUM RUBRUM	NA
WF982	N04	WF9821E1	23.51	2/28/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	532.69
WF982	N04	WF9821E1	23.51	2/28/98	CENTRIC DIATOM SP. GROUP 3 DIAM 31-60 MICRONS	1063.79
WF982	N04	WF9821E1	23.51	2/28/98	CHAETOCEROS DEBILIS	670.03
WF982	N04	WF9821E1	23.51	2/28/98	COSCONODISCUS EXCENTRICUS	526.17
WF982	N04	WF9821E1	23.51	2/28/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	799.86
WF982	N04	WF9821E1	23.51	2/28/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	18672.89
WF982	N04	WF9821E1	23.51	2/28/98	GYRODINIUM SPIRALE	13951.52
WF982	N04	WF9821E1	23.51	2/28/98	PENNATE DIATOM SP. GROUP 9 >30 MICRONS LENGTH	NA
WF982	N04	WF9821E1	23.51	2/28/98	PENNATE DIATOMS SP. GROUP 8 10-20 MICRONS LENGTH	NA
WF982	N04	WF9821E1	23.51	2/28/98	PLEUROSIGMA SPP.	1346.26
WF982	N04	WF9821E1	23.51	2/28/98	PSEUDONITZSCHIA PUNGENS	1205.66
WF982	N04	WF9821E1	23.51	2/28/98	THALASSIONEMA NITZSCHIOIDES	66.75
WF982	N04	WF9821E1	23.51	2/28/98	THALASSIOSIRA ROTULA	4704.84
WF982	N04	WF9821E1	23.51	2/28/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	34397.48
WF982	N04	WF9821E1	23.51	2/28/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	3461.54
WF982	N04	WF9821E1	23.51	2/28/98	ATHECATE DINOFLAGELLATE	NA
WF982	N04	WF9821E1	23.51	2/28/98	CERATIUM FUSUS	42.90
WF982	N04	WF9821E1	23.51	2/28/98	CERATIUM LONGIPES	534.74
WF982	N04	WF9821E1	23.51	2/28/98	CERATIUM SPP.	37.68
WF982	N04	WF9821E1	23.51	2/28/98	CERATIUM TRIPOS	467.20
WF982	N04	WF9821E1	23.51	2/28/98	DICTYOCHA SPECULUM	NA
WF982	N04	WF9821E1	23.51	2/28/98	GYRODINIUM SPP.	3.66
WF982	N04	WF9821E1	23.51	2/28/98	MESODINIUM RUBRUM	NA

Survey	Sta.	Sample Number	Depth (m)	Sampling Date	Plankton	Estimated Carbon Equivalence (ng Carbon/L)
WF982	N04	WF9821E1	23.51	2/28/98	PROTOPERIDINIUM BREVIPIES	5.15
WF982	N04	WF9821E1	23.51	2/28/98	PROTOPERIDINIUM DEPRESSUM	174.92
WF982	N04	WF9821E3	2.42	2/28/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	2010.16
WF982	N04	WF9821E3	2.42	2/28/98	CERATIUM TRIPOS	11442.62
WF982	N04	WF9821E3	2.42	2/28/98	CHAETOCEROS SPP. (10-20UM)	NA
WF982	N04	WF9821E3	2.42	2/28/98	CHOANOFLLAGELLATE SPP.	822.04
WF982	N04	WF9821E3	2.42	2/28/98	COSCONODISCUS RADIATUS	3625.76
WF982	N04	WF9821E3	2.42	2/28/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	3961.58
WF982	N04	WF9821E3	2.42	2/28/98	EUTREPTIA/EUTREPTIELLA SPP.	NA
WF982	N04	WF9821E3	2.42	2/28/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	20551.93
WF982	N04	WF9821E3	2.42	2/28/98	GYMNODINIUM SP. GROUP 5 20-30 MICRONS	NA
WF982	N04	WF9821E3	2.42	2/28/98	GYRODINIUM SPIRALE	39485.44
WF982	N04	WF9821E3	2.42	2/28/98	HETEROCAPSA TRIQUETRA	570.46
WF982	N04	WF9821E3	2.42	2/28/98	PENNATE DIATOMS SP. GROUP 8 10-20 MICRONS LENGTH	NA
WF982	N04	WF9821E3	2.42	2/28/98	PYRAMIMONAS/TETRASELMIS SPP.	NA
WF982	N04	WF9821E3	2.42	2/28/98	THALASSIONEMA NITZSCHIOIDES	188.91
WF982	N04	WF9821E3	2.42	2/28/98	THALASSIOSIRA ROTULA	14819.99
WF982	N04	WF9821E3	2.42	2/28/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	70054.63
WF982	N04	WF9821E3	2.42	2/28/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	5079.83
WF982	N04	WF9821E3	2.42	2/28/98	ATHECATE DINOFLAGELLATE	NA
WF982	N04	WF9821E3	2.42	2/28/98	CERATIUM FUSUS	19.23
WF982	N04	WF9821E3	2.42	2/28/98	CERATIUM LONGIPES	703.15
WF982	N04	WF9821E3	2.42	2/28/98	CERATIUM SPP.	33.78
WF982	N04	WF9821E3	2.42	2/28/98	CERATIUM TRIPOS	542.07
WF982	N04	WF9821E3	2.42	2/28/98	DISTEPHANUS SPECULUM	5.46
WF982	N04	WF9821E3	2.42	2/28/98	MESODINIUM RUBRUM	NA
WF982	N04	WF9821E3	2.42	2/28/98	PROTOPERIDINIUM SPP.	10.26
WF982	F31	WF98229B	6.50	3/1/98	CHAETOCEROS BOREALIS	11724.67
WF982	F31	WF98229B	6.50	3/1/98	CHAETOCEROS SPP. (<10UM)	688.83
WF982	F31	WF98229B	6.50	3/1/98	CHOANOFLLAGELLATE SPP.	678.19
WF982	F31	WF98229B	6.50	3/1/98	COCCONEIS SCUTELLUM EHRENB.	1282.45
WF982	F31	WF98229B	6.50	3/1/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	8823.08
WF982	F31	WF98229B	6.50	3/1/98	CRYPTOMONAS SP. GROUP 2 LENGTH >10 MICRONS	1381.98
WF982	F31	WF98229B	6.50	3/1/98	CYANOBACTERIA SPP.	NA
WF982	F31	WF98229B	6.50	3/1/98	CYLINDROTHECA CLOSTERIUM	507.87
WF982	F31	WF98229B	6.50	3/1/98	EUTREPTIA/EUTREPTIELLA SPP.	NA
WF982	F31	WF98229B	6.50	3/1/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	10708.64
WF982	F31	WF98229B	6.50	3/1/98	GYRODINIUM SPIRALE	28955.99
WF982	F31	WF98229B	6.50	3/1/98	GYROSIGMA SPP.	2794.13
WF982	F31	WF98229B	6.50	3/1/98	PENNATE DIATOMS SP. GROUP 7 20-30 MICRONS LENGTH	NA
WF982	F31	WF98229B	6.50	3/1/98	PENNATE DIATOMS SP. GROUP 8 10-20 MICRONS LENGTH	NA
WF982	F31	WF98229B	6.50	3/1/98	RHIZOLENIA DELICATULA	751.13
WF982	F31	WF98229B	6.50	3/1/98	RHIZOLENIA SETIGERA	4643.60
WF982	F31	WF98229B	6.50	3/1/98	SCENESDESMUS QUADRICAUDA	39.12
WF982	F31	WF98229B	6.50	3/1/98	SKELETONEMA COSTATUM GREV+CLEVE	2634.74
WF982	F31	WF98229B	6.50	3/1/98	THALASSIOSIRA DECIPIENS	2841.84
WF982	F31	WF98229B	6.50	3/1/98	THALASSIOSIRA ROTULA	70794.52
WF982	F31	WF98229B	6.50	3/1/98	THALASSIOSIRA SPP.	31920.11
WF982	F31	WF98229B	6.50	3/1/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	49143.11

Survey	Sta.	Sample Number	Depth (m)	Sampling Date	Plankton	Estimated Carbon Equivalence (ng Carbon/L)
WF982	F31	WF98229B	6.50	3/1/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	17811.14
WF982	F31	WF98229B	6.50	3/1/98	CERATIUM FUSUS	6.95
WF982	F31	WF98229B	6.50	3/1/98	CERATIUM LINEATUM	4.49
WF982	F31	WF98229B	6.50	3/1/98	CERATIUM LONGIPES	69.33
WF982	F31	WF98229B	6.50	3/1/98	CERATIUM TRIPOS	71.26
WF982	F31	WF98229B	6.50	3/1/98	DISTEPHANUS SPECULUM	0.56
WF982	F31	WF98229B	6.50	3/1/98	GYRODINIUM SPP.	2.37
WF982	F31	WF98229B	6.50	3/1/98	MESODINIUM RUBRUM	NA
WF982	F31	WF98229C	2.50	3/1/98	ASTERIONELLA FORMOSA	56.63
WF982	F31	WF98229C	2.50	3/1/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	1899.60
WF982	F31	WF98229C	2.50	3/1/98	CHAETOCEROS SPP. (10-20UM)	NA
WF982	F31	WF98229C	2.50	3/1/98	CHAETOCEROS SPP.(<10UM)	450.87
WF982	F31	WF98229C	2.50	3/1/98	CHOANOFAGELLATE SPP.	1331.71
WF982	F31	WF98229C	2.50	3/1/98	COCCONEIS SCUTELLUM EHRENB.	1678.85
WF982	F31	WF98229C	2.50	3/1/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	4067.23
WF982	F31	WF98229C	2.50	3/1/98	CYANOBACTERIA SPP.	NA
WF982	F31	WF98229C	2.50	3/1/98	CYLINDROTHECA CLOSTERIUM	249.32
WF982	F31	WF98229C	2.50	3/1/98	DICTYOCHA SPECULUM	NA
WF982	F31	WF98229C	2.50	3/1/98	EUTREPTIA/EUTREPTIELLA SPP.	NA
WF982	F31	WF98229C	2.50	3/1/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	9345.72
WF982	F31	WF98229C	2.50	3/1/98	GYMNODINIUM SP.GROUP 5 20-30 MICRONS	NA
WF982	F31	WF98229C	2.50	3/1/98	GYRODINIUM SPIRALE	14214.76
WF982	F31	WF98229C	2.50	3/1/98	GYROSIGMA SPP.	9159.80
WF982	F31	WF98229C	2.50	3/1/98	LICMOPHORA SPP.	149.22
WF982	F31	WF98229C	2.50	3/1/98	ODONTELLA AURITA	1891.36
WF982	F31	WF98229C	2.50	3/1/98	PARALIA SULCATA	1299.52
WF982	F31	WF98229C	2.50	3/1/98	PENNATE DIATOMS SP. GROUP 7 20-30 MICRONS LENGTH	NA
WF982	F31	WF98229C	2.50	3/1/98	PENNATE DIATOMS SP. GROUP 8 10-20 MICRONS LENGTH	NA
WF982	F31	WF98229C	2.50	3/1/98	PYRAMIMONAS/TETRASELMIS SPP.	NA
WF982	F31	WF98229C	2.50	3/1/98	SKELETONEMA COSTATUM GREV+CLEVE	1402.50
WF982	F31	WF98229C	2.50	3/1/98	SURIPELLA SPP.	867.79
WF982	F31	WF98229C	2.50	3/1/98	THALASSIOSIRA NORDENSKIOLDII CLEVE	133.40
WF982	F31	WF98229C	2.50	3/1/98	THALASSIOSIRA ROTULA	59920.13
WF982	F31	WF98229C	2.50	3/1/98	THALASSIOSIRA SPP.	6625.50
WF982	F31	WF98229C	2.50	3/1/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	75205.95
WF982	F31	WF98229C	2.50	3/1/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	2743.11
WF982	F31	WF98229C	2.50	3/1/98	ATHECATE DINOFLAGELLATE	NA
WF982	F31	WF98229C	2.50	3/1/98	CERATIUM LONGIPES	26.06
WF982	F31	WF98229C	2.50	3/1/98	CERATIUM TRIPOS	100.45
WF982	F31	WF98229C	2.50	3/1/98	DINOPHYSIS NORVEGICA	NA
WF982	F31	WF98229C	2.50	3/1/98	DISTEPHANUS SPECULUM	3.18
WF982	F31	WF98229C	2.50	3/1/98	MESODINIUM RUBRUM	NA
WF982	F06	WF9822C4	14.05	3/1/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	1444.80
WF982	F06	WF9822C4	14.05	3/1/98	CERATIUM FUSUS	4465.48
WF982	F06	WF9822C4	14.05	3/1/98	CHAETOCEROS DEBILIS	632.10
WF982	F06	WF9822C4	14.05	3/1/98	CHAETOCEROS SPP. (10-20UM)	NA
WF982	F06	WF9822C4	14.05	3/1/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	3863.77
WF982	F06	WF9822C4	14.05	3/1/98	CRYPTOMONAS SP. GROUP 2 LENGTH >10 MICRONS	314.09
WF982	F06	WF9822C4	14.05	3/1/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	12168.90
WF982	F06	WF9822C4	14.05	3/1/98	HETEROCAPSA TRIQUETRA	2857.10

Survey	Sta.	Sample Number	Depth (m)	Sampling Date	Plankton	Estimated Carbon Equivalence (ng Carbon/L)
WF982	F06	WF9822C4	14.05	3/1/98	PENNATE DIATOM SP. GROUP 9 >30 MICRONS LENGTH	NA
WF982	F06	WF9822C4	14.05	3/1/98	PSEUDONITZSCHIA PUNGENS	303.31
WF982	F06	WF9822C4	14.05	3/1/98	THALASSIOSIRA ROTULA	8877.06
WF982	F06	WF9822C4	14.05	3/1/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	57889.45
WF982	F06	WF9822C4	14.05	3/1/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	1904.93
WF982	F06	WF9822C4	14.05	3/1/98	CERATIUM FUSUS	19.97
WF982	F06	WF9822C4	14.05	3/1/98	CERATIUM LINEATUM	4.30
WF982	F06	WF9822C4	14.05	3/1/98	CERATIUM LONGIPES	309.78
WF982	F06	WF9822C4	14.05	3/1/98	CERATIUM SPP.	11.69
WF982	F06	WF9822C4	14.05	3/1/98	CERATIUM TRIPOS	170.58
WF982	F06	WF9822C4	14.05	3/1/98	DINOPHYSIS NORVEGICA	NA
WF982	F06	WF9822C4	14.05	3/1/98	DISTEPHANUS SPECULUM	4.86
WF982	F06	WF9822C4	14.05	3/1/98	MESODINIUM RUBRUM	NA
WF982	F06	WF9822C4	14.05	3/1/98	PROTOPERIDIUM BREVIPES	3.20
WF982	F06	WF9822C4	14.05	3/1/98	PROTOPERIDIUM SPP.	7.10
WF982	F06	WF9822C6	2.23	3/1/98	CALYCOMONAS WULFFII	48.27
WF982	F06	WF9822C6	2.23	3/1/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	1012.12
WF982	F06	WF9822C6	2.23	3/1/98	CHAETOCEROS SPP. (10-20UM)	NA
WF982	F06	WF9822C6	2.23	3/1/98	CHOANOFAGELLATE SPP.	392.12
WF982	F06	WF9822C6	2.23	3/1/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	1843.30
WF982	F06	WF9822C6	2.23	3/1/98	EUTREPTIA/EUTREPTIELLA SPP.	NA
WF982	F06	WF9822C6	2.23	3/1/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	10319.23
WF982	F06	WF9822C6	2.23	3/1/98	GYMNODINIUM SP. GROUP 5 20-30 MICRONS	NA
WF982	F06	WF9822C6	2.23	3/1/98	PENNATE DIATOM SP. GROUP 9 >30 MICRONS LENGTH	NA
WF982	F06	WF9822C6	2.23	3/1/98	PSEUDONITZSCHIA PUNGENS	229.65
WF982	F06	WF9822C6	2.23	3/1/98	PYRAMIMONAS/TETRASELMIS SPP.	NA
WF982	F06	WF9822C6	2.23	3/1/98	RHIZOLENIA SETIGERA	3196.25
WF982	F06	WF9822C6	2.23	3/1/98	THALASSIOSIRA ROTULA	33606.00
WF982	F06	WF9822C6	2.23	3/1/98	THALASSIOSIRA SPP.	2064.38
WF982	F06	WF9822C6	2.23	3/1/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	52158.40
WF982	F06	WF9822C6	2.23	3/1/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	5653.85
WF982	F06	WF9822C6	2.23	3/1/98	ATHECATE DINOFLAGELLATE	NA
WF982	F06	WF9822C6	2.23	3/1/98	CERATIUM FUSUS	14.79
WF982	F06	WF9822C6	2.23	3/1/98	CERATIUM LINEATUM	4.78
WF982	F06	WF9822C6	2.23	3/1/98	CERATIUM LONGIPES	270.44
WF982	F06	WF9822C6	2.23	3/1/98	CERATIUM TRIPOS	113.72
WF982	F06	WF9822C6	2.23	3/1/98	DINOPHYSIS NORVEGICA	NA
WF982	F06	WF9822C6	2.23	3/1/98	DISTEPHANUS SPECULUM	7.03
WF982	F06	WF9822C6	2.23	3/1/98	MESODINIUM RUBRUM	NA
WF982	F06	WF9822C6	2.23	3/1/98	PROTOPERIDIUM SPP.	7.10
WF982	F01	WF9822E4	7.78	3/1/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	2512.70
WF982	F01	WF9822E4	7.78	3/1/98	CHAETOCEROS DEBILIS	51621.53
WF982	F01	WF9822E4	7.78	3/1/98	CHAETOCEROS SPP. (10-20UM)	NA
WF982	F01	WF9822E4	7.78	3/1/98	CHOANOFAGELLATE SPP.	205.51
WF982	F01	WF9822E4	7.78	3/1/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	6129.86
WF982	F01	WF9822E4	7.78	3/1/98	CRYPTOMONAS SP. GROUP 2 LENGTH >10 MICRONS	418.78
WF982	F01	WF9822E4	7.78	3/1/98	CYLINDROTHECA CLOSTERIUM	3083.17
WF982	F01	WF9822E4	7.78	3/1/98	DETONULA CONFERVACEA	10279.79
WF982	F01	WF9822E4	7.78	3/1/98	EBRIA TRIPARTITA	2452.53
WF982	F01	WF9822E4	7.78	3/1/98	EUTREPTIA/EUTREPTIELLA SPP.	NA
WF982	F01	WF9822E4	7.78	3/1/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	20551.93
WF982	F01	WF9822E4	7.78	3/1/98	GYRODINIUM SPIRALE	175490.87
WF982	F01	WF9822E4	7.78	3/1/98	PENNATE DIATOMS SP. GROUP 8 10-20 MICRONS	NA

Survey	Sta.	Sample Number	Depth (m)	Sampling Date	Plankton	Estimated Carbon Equivalence (ng Carbon/L)
					LENGTH	
WF982	F01	WF9822E4	7.78	3/1/98	PROROCENTRUM MINIMUM	1551.77
WF982	F01	WF9822E4	7.78	3/1/98	PROTOPERIDINIUM BIPES	2623.64
WF982	F01	WF9822E4	7.78	3/1/98	PSEUDONITZSCHIA PUNGENS	1011.04
WF982	F01	WF9822E4	7.78	3/1/98	RHIZOLENIA DELICATULA	4559.95
WF982	F01	WF9822E4	7.78	3/1/98	RHIZOLENIA SETIGERA	14095.21
WF982	F01	WF9822E4	7.78	3/1/98	SKELETONEMA COSTATUM GREV+CLEVE	30685.75
WF982	F01	WF9822E4	7.78	3/1/98	THALASSIONEMA NITZSCHIOIDES	840.99
WF982	F01	WF9822E4	7.78	3/1/98	THALASSIOSIRA NORDENSKIOLDII CLEVE	4330.55
WF982	F01	WF9822E4	7.78	3/1/98	THALASSIOSIRA ROTULA	329190.82
WF982	F01	WF9822E4	7.78	3/1/98	THALASSIOSIRA SPP.	18207.55
WF982	F01	WF9822E4	7.78	3/1/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	89770.60
WF982	F01	WF9822E4	7.78	3/1/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	2539.91
WF982	F01	WF9822E4	7.78	3/1/98	CERATIUM FURCA	NA
WF982	F01	WF9822E4	7.78	3/1/98	CERATIUM FUSUS	22.19
WF982	F01	WF9822E4	7.78	3/1/98	CERATIUM LONGIPES	368.78
WF982	F01	WF9822E4	7.78	3/1/98	CERATIUM TRIPOS	170.58
WF982	F01	WF9822E4	7.78	3/1/98	DINOPHYSIS ACUMINATA	0.94
WF982	F01	WF9822E4	7.78	3/1/98	DISTEPHANUS SPECULUM	4.20
WF982	F01	WF9822E4	7.78	3/1/98	PROTOPERIDINIUM BREVIPES	7.10
WF982	F01	WF9822E4	7.78	3/1/98	PROTOPERIDINIUM SPP.	7.89
WF982	F01	WF9822E6	2.16	3/1/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	3196.15
WF982	F01	WF9822E6	2.16	3/1/98	CENTRIC DIATOM SP. GROUP 3 DIAM 31-60 MICRONS	15956.80
WF982	F01	WF9822E6	2.16	3/1/98	CHAETOCEROS DEBILIS	67002.64
WF982	F01	WF9822E6	2.16	3/1/98	CHAETOCEROS SPP. (10-20UM)	NA
WF982	F01	WF9822E6	2.16	3/1/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	8087.50
WF982	F01	WF9822E6	2.16	3/1/98	EUTREPTIA/EUTREPTIELLA SPP.	NA
WF982	F01	WF9822E6	2.16	3/1/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	18918.59
WF982	F01	WF9822E6	2.16	3/1/98	PENNATE DIATOMS SP. GROUP 7 20-30 MICRONS LENGTH	NA
WF982	F01	WF9822E6	2.16	3/1/98	SKELETONEMA COSTATUM GREV+CLEVE	36401.57
WF982	F01	WF9822E6	2.16	3/1/98	THALASSIOSIRA NORDENSKIOLDII CLEVE	2782.34
WF982	F01	WF9822E6	2.16	3/1/98	THALASSIOSIRA ROTULA	199955.68
WF982	F01	WF9822E6	2.16	3/1/98	THALASSIOSIRA SPP.	28950.00
WF982	F01	WF9822E6	2.16	3/1/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	117389.74
WF982	F01	WF9822E6	2.16	3/1/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	14134.62
WF982	F01	WF9822E6	2.16	3/1/98	ATHECATE DINOFLAGELLATE	NA
WF982	F01	WF9822E6	2.16	3/1/98	CERATIUM FUSUS	14.79
WF982	F01	WF9822E6	2.16	3/1/98	CERATIUM LONGIPES	245.86
WF982	F01	WF9822E6	2.16	3/1/98	CERATIUM MINUTUM	NA
WF982	F01	WF9822E6	2.16	3/1/98	CERATIUM SPP.	12.99
WF982	F01	WF9822E6	2.16	3/1/98	CERATIUM TRIPOS	208.49
WF982	F01	WF9822E6	2.16	3/1/98	DISTEPHANUS SPECULUM	5.40
WF982	F01	WF9822E6	2.16	3/1/98	HETEROCAPSA TRIQUETRA	0.94
WF982	F01	WF9822E6	2.16	3/1/98	MESODINIUM RUBRUM	NA
WF982	F01	WF9822E6	2.16	3/1/98	PROTOPERIDINIUM DEPRESSUM	120.63
WN983	N04	WN98302A	25.73	3/23/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	1775.64
WN983	N04	WN98302A	25.73	3/23/98	CENTRIC DIATOM SP. GROUP 3 DIAM 31-60 MICRONS	2127.57
WN983	N04	WN98302A	25.73	3/23/98	CERATIUM LONGIPES	31466.95
WN983	N04	WN98302A	25.73	3/23/98	CERATIUM TRIPOS	48516.69
WN983	N04	WN98302A	25.73	3/23/98	CHAETOCEROS DECIPIENS	4766.40

Survey	Sta.	Sample Number	Depth (m)	Sampling Date	Plankton	Estimated Carbon Equivalence (ng Carbon/L)
WN983	N04	WN98302A	25.73	3/23/98	CHAETOCEROS SPP. (10-20UM)	NA
WN983	N04	WN98302A	25.73	3/23/98	CHAETOCEROS SPP.<10UM)	663.78
WN983	N04	WN98302A	25.73	3/23/98	CHOANOFLLAGELLATE SPP.	217.84
WN983	N04	WN98302A	25.73	3/23/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	5806.41
WN983	N04	WN98302A	25.73	3/23/98	CRYPTOMONAS SP. GROUP 2 LENGTH >10 MICRONS	443.91
WN983	N04	WN98302A	25.73	3/23/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	20638.46
WN983	N04	WN98302A	25.73	3/23/98	GYMNODINIUM SP. GROUP 6 <10 MICRONS	NA
WN983	N04	WN98302A	25.73	3/23/98	NAVICULOID DIATOMS	NA
WN983	N04	WN98302A	25.73	3/23/98	PENNATE DIATOMS SP. GROUP 8 10-20 MICRONS LENGTH	NA
WN983	N04	WN98302A	25.73	3/23/98	PSEUDONITZSCHIA PUNGENS	803.78
WN983	N04	WN98302A	25.73	3/23/98	PYRAMIMONAS SPP.	849.57
WN983	N04	WN98302A	25.73	3/23/98	RHIZOLENIA FRAGILISSIMA	1062.60
WN983	N04	WN98302A	25.73	3/23/98	SKELETONEMA COSTATUM GREV+CLEVE	183.54
WN983	N04	WN98302A	25.73	3/23/98	THALASSIONEMA NITZSCHIOIDES	266.99
WN983	N04	WN98302A	25.73	3/23/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	69811.32
WN983	N04	WN98302A	25.73	3/23/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	14807.69
WN983	N04	WN98302A	25.73	3/23/98	ATHECATE DINOFLAGELLATE	NA
WN983	N04	WN98302A	25.73	3/23/98	CERATIUM FUSUS	65.39
WN983	N04	WN98302A	25.73	3/23/98	CERATIUM LINEATUM	19.89
WN983	N04	WN98302A	25.73	3/23/98	CERATIUM LONGIPES	4960.38
WN983	N04	WN98302A	25.73	3/23/98	CERATIUM SPP.	60.81
WN983	N04	WN98302A	25.73	3/23/98	CERATIUM TRIPOS	926.44
WN983	N04	WN98302A	25.73	3/23/98	DINOPHYSIS ACUMINATA	1.47
WN983	N04	WN98302A	25.73	3/23/98	DISTEPHANUS SPECULUM	1.56
WN983	N04	WN98302A	25.73	3/23/98	GYRODINIUM SPP.	1.31
WN983	N04	WN98302A	25.73	3/23/98	PROTOPERIDINIUM BREVE	8.14
WN983	N04	WN98302A	25.73	3/23/98	PROTOPERIDINIUM DEPRESSUM	250.91
WN983	N04	WN98302A	25.73	3/23/98	PROTOPERIDINIUM SPP.	20.52
WN983	N04	WN98302C	2.46	3/23/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	1172.59
WN983	N04	WN98302C	2.46	3/23/98	CENTRIC DIATOM SP. GROUP 3 DIAM 31-60 MICRONS	6701.74
WN983	N04	WN98302C	2.46	3/23/98	CERATIUM FUSUS	8930.97
WN983	N04	WN98302C	2.46	3/23/98	CERATIUM LONGIPES	118743.23
WN983	N04	WN98302C	2.46	3/23/98	CHAETOCEROS DEBILIS	3160.50
WN983	N04	WN98302C	2.46	3/23/98	CHAETOCEROS SPP. (10-20UM)	NA
WN983	N04	WN98302C	2.46	3/23/98	CHAETOCEROS SPP.<10UM)	626.21
WN983	N04	WN98302C	2.46	3/23/98	CHOANOFLLAGELLATE SPP.	411.02
WN983	N04	WN98302C	2.46	3/23/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	6912.39
WN983	N04	WN98302C	2.46	3/23/98	CRYPTOMONAS SP. GROUP 2 LENGTH >10 MICRONS	837.57
WN983	N04	WN98302C	2.46	3/23/98	DICTYCHA SPECULUM	NA
WN983	N04	WN98302C	2.46	3/23/98	EUTREPTIA/EUTREPTIELLA SPP.	NA
WN983	N04	WN98302C	2.46	3/23/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	22715.29
WN983	N04	WN98302C	2.46	3/23/98	GYMNODINIUM SP. GROUP 6 <10 MICRONS	NA
WN983	N04	WN98302C	2.46	3/23/98	PENNATE DIATOMS SP. GROUP 8 10-20 MICRONS LENGTH	NA
WN983	N04	WN98302C	2.46	3/23/98	PYRAMIMONAS SPP.	400.74
WN983	N04	WN98302C	2.46	3/23/98	RHIZOLENIA FRAGILISSIMA	2004.91
WN983	N04	WN98302C	2.46	3/23/98	SKELETONEMA COSTATUM GREV+CLEVE	385.42
WN983	N04	WN98302C	2.46	3/23/98	THALASSIONEMA NITZSCHIOIDES	251.87
WN983	N04	WN98302C	2.46	3/23/98	THALASSIOSIRA ROTULA	22229.98
WN983	N04	WN98302C	2.46	3/23/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	89980.35

Survey	Sta.	Sample Number	Depth (m)	Sampling Date	Plankton	Estimated Carbon Equivalence (ng Carbon/L)
WN983	N04	WN98302C	2.46	3/23/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	1269.96
WN983	N04	WN98302C	2.46	3/23/98	CERATIUM FUSUS	6.36
WN983	N04	WN98302C	2.46	3/23/98	CERATIUM LINEATUM	28.78
WN983	N04	WN98302C	2.46	3/23/98	CERATIUM LONGIPES	3996.13
WN983	N04	WN98302C	2.46	3/23/98	CERATIUM SPP.	44.69
WN983	N04	WN98302C	2.46	3/23/98	CERATIUM TRIPOS	619.40
WN983	N04	WN98302C	2.46	3/23/98	DINOPHYSIS ACUMINATA	1.63
WN983	N04	WN98302C	2.46	3/23/98	DISTEPHANUS SPECULUM	14.98
WN983	N18	WN98304E	10.82	3/23/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	670.05
WN983	N18	WN98304E	10.82	3/23/98	CENTRIC DIATOM SP. GROUP 3 DIAM 31-60 MICRONS	4014.29
WN983	N18	WN98304E	10.82	3/23/98	CERATIUM LONGIPES	118743.23
WN983	N18	WN98304E	10.82	3/23/98	CHAETOCEROS SPP.(<10UM)	208.74
WN983	N18	WN98304E	10.82	3/23/98	CHOANOFLLAGELLATE SPP.	205.51
WN983	N18	WN98304E	10.82	3/23/98	COCCONEIS SCUTELLUM EHRENB.	1554.49
WN983	N18	WN98304E	10.82	3/23/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	326.06
WN983	N18	WN98304E	10.82	3/23/98	CRYPTOMONAS SP. GROUP 2 LENGTH >10 MICRONS	3350.27
WN983	N18	WN98304E	10.82	3/23/98	DICTYOCHA SPECULUM	NA
WN983	N18	WN98304E	10.82	3/23/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	19470.25
WN983	N18	WN98304E	10.82	3/23/98	GYMNODINIUM SP. GROUP 6 <10 MICRONS	NA
WN983	N18	WN98304E	10.82	3/23/98	GYRODINIUM SPIRALE	52647.26
WN983	N18	WN98304E	10.82	3/23/98	PENNATE DIATOMS SP. GROUP 8 10-20 MICRONS LENGTH	NA
WN983	N18	WN98304E	10.82	3/23/98	PSEUDONITZSCHIA PUNGENS	1012.74
WN983	N18	WN98304E	10.82	3/23/98	THALASSIONEMA NITZSCHIOIDES	629.69
WN983	N18	WN98304E	10.82	3/23/98	THALASSIOSIRA ROTULA	4438.53
WN983	N18	WN98304E	10.82	3/23/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	70683.86
WN983	N18	WN98304E	10.82	3/23/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	10159.65
WN983	N18	WN98304E	10.82	3/23/98	CERATIUM FUSUS	40.68
WN983	N18	WN98304E	10.82	3/23/98	CERATIUM LINEATUM	35.86
WN983	N18	WN98304E	10.82	3/23/98	CERATIUM LONGIPES	4978.57
WN983	N18	WN98304E	10.82	3/23/98	CERATIUM SPP.	51.97
WN983	N18	WN98304E	10.82	3/23/98	CERATIUM TRIPOS	947.67
WN983	N18	WN98304E	10.82	3/23/98	DINOPHYSIS ACUMINATA	0.47
WN983	N18	WN98304E	10.82	3/23/98	DISTEPHANUS SPECULUM	2.70
WN983	N18	WN98304E	10.82	3/23/98	PROTOPERIDINIUM DEPRESSUM	120.63
WN983	N18	WN98304E	10.82	3/23/98	PROTOPERIDINIUM SPP.	11.84
WN983	N18	WN983050	2.57	3/23/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	1366.91
WN983	N18	WN983050	2.57	3/23/98	CENTRIC DIATOM SP. GROUP 3 DIAM 31-60 MICRONS	6835.78
WN983	N18	WN983050	2.57	3/23/98	CHAETOCEROS DECIPIENS	6879.81
WN983	N18	WN983050	2.57	3/23/98	CHAETOCEROS SPP.(<10UM)	425.82
WN983	N18	WN983050	2.57	3/23/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	5188.21
WN983	N18	WN983050	2.57	3/23/98	CRYPTOMONAS SP. GROUP 2 LENGTH >10 MICRONS	1281.48
WN983	N18	WN983050	2.57	3/23/98	EUTREPTIA/EUTREPTIELLA SPP.	NA
WN983	N18	WN983050	2.57	3/23/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	8826.51
WN983	N18	WN983050	2.57	3/23/98	GYMNODINIUM SP. GROUP 6 <10 MICRONS	NA
WN983	N18	WN983050	2.57	3/23/98	GYRODINIUM SPIRALE	26850.10
WN983	N18	WN983050	2.57	3/23/98	PENNATE DIATOMS SP. GROUP 8 10-20 MICRONS LENGTH	NA
WN983	N18	WN983050	2.57	3/23/98	PSEUDONITZSCHIA PUNGENS	618.76
WN983	N18	WN983050	2.57	3/23/98	PYRAMIMONAS SPP.	408.76
WN983	N18	WN983050	2.57	3/23/98	THALASSIONEMA NITZSCHIOIDES	128.46
WN983	N18	WN983050	2.57	3/23/98	THALASSIOSIRA ROTULA	7558.19
WN983	N18	WN983050	2.57	3/23/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	99909.65

Survey	Sta.	Sample Number	Depth (m)	Sampling Date	Plankton	Estimated Carbon Equivalence (ng Carbon/L)
WN983	N18	WN983050	2.57	3/23/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	12953.56
WN983	N18	WN983050	2.57	3/23/98	ATHECATE DINOFLAGELLATE	NA
WN983	N18	WN983050	2.57	3/23/98	CERATIUM FUSUS	58.58
WN983	N18	WN983050	2.57	3/23/98	CERATIUM LINEATUM	53.64
WN983	N18	WN983050	2.57	3/23/98	CERATIUM LONGIPES	5062.65
WN983	N18	WN983050	2.57	3/23/98	CERATIUM TRIPOS	1376.01
WN983	N18	WN983050	2.57	3/23/98	DINOPHYSIS ACUMINATA	3.74
WN983	N18	WN983050	2.57	3/23/98	DISTEPHANUS SPECULUM	3.96
WN983	N18	WN983050	2.57	3/23/98	MESODINIUM RUBRUM	NA
WN983	N18	WN983050	2.57	3/23/98	PROTOPERIDIUM DEPRESSUM	159.23
WN983	N18	WN983050	2.57	3/23/98	PROTOPERIDIUM SPP.	20.84
WF984	F01	WF984034	11.51	3/30/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	3793.18
WF984	F01	WF984034	11.51	3/30/98	CERATIUM LONGIPES	53447.28
WF984	F01	WF984034	11.51	3/30/98	CHAETOCEROS COMPRESSUS	718909.71
WF984	F01	WF984034	11.51	3/30/98	CHAETOCEROS DEBILIS	34141.61
WF984	F01	WF984034	11.51	3/30/98	CHAETOCEROS SOCIALIS	24907.07
WF984	F01	WF984034	11.51	3/30/98	CHAETOCEROS SP. GROUP 2 DIAM 10-30 MICRONS	143780.38
WF984	F01	WF984034	11.51	3/30/98	CHAETOCEROS TORTISSIMUS (EHRENBERG 1844) Diatom species	NA
WF984	F01	WF984034	11.51	3/30/98	CHOANOFLAGELLATE SPP.	664.80
WF984	F01	WF984034	11.51	3/30/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	9703.69
WF984	F01	WF984034	11.51	3/30/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	34990.93
WF984	F01	WF984034	11.51	3/30/98	GYMNODINIUM SP. GROUP 2 21-40UM W 21-50UM L	10768.52
WF984	F01	WF984034	11.51	3/30/98	GYRODINIUM SP. GROUP 2 21-40UM W 21-50UM L	64601.82
WF984	F01	WF984034	11.51	3/30/98	PENNATE DIATOM SP. GROUP 1 <10 MICRONS LENGTH	209.65
WF984	F01	WF984034	11.51	3/30/98	PENNATE DIATOM SP. GROUP 3 31-60 MICRONS LENGTH	509.57
WF984	F01	WF984034	11.51	3/30/98	PLEUROSIGMA SPP.	4573.30
WF984	F01	WF984034	11.51	3/30/98	PSEUDONITZSCHIA PUNGENS	5187.87
WF984	F01	WF984034	11.51	3/30/98	RHIZOLENIA FRAGILISSIMA	1804.85
WF984	F01	WF984034	11.51	3/30/98	RHIZOLENIA SETIGERA	15200.90
WF984	F01	WF984034	11.51	3/30/98	SKELETONEMA COSTATUM GREV+CLEVE	193252.18
WF984	F01	WF984034	11.51	3/30/98	THALASSIONEMA NITZSCHIOIDES	1587.19
WF984	F01	WF984034	11.51	3/30/98	THALASSIOSIRA NORDENSKIOLDII CLEVE	7337.92
WF984	F01	WF984034	11.51	3/30/98	THALASSIOSIRA ROTULA	335633.26
WF984	F01	WF984034	11.51	3/30/98	THALASSIOSIRA SP. GROUP 3 10-20 MICRONS LENGTH	13826.83
WF984	F01	WF984034	11.51	3/30/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	149268.98
WF984	F01	WF984034	11.51	3/30/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	16432.56
WF984	F01	WF984034	11.51	3/30/98	ATHECATE DINOFLAGELLATE	NA
WF984	F01	WF984034	11.51	3/30/98	CERATIUM FUSUS	12.43
WF984	F01	WF984034	11.51	3/30/98	CERATIUM LINEATUM	5.35
WF984	F01	WF984034	11.51	3/30/98	CERATIUM LONGIPES	674.63
WF984	F01	WF984034	11.51	3/30/98	CERATIUM SPP.	50.93
WF984	F01	WF984034	11.51	3/30/98	CERATIUM TRIPOS	127.37
WF984	F01	WF984034	11.51	3/30/98	DINOPHYSIS NORVEGICA	NA
WF984	F01	WF984034	11.51	3/30/98	DISTEPHANUS SPECULUM	1.01
WF984	F01	WF984034	11.51	3/30/98	GYRODINIUM SP. GROUP 3 41-70UM W 51-70UM L	36.04
WF984	F01	WF984034	11.51	3/30/98	PROTOPERIDIUM PYRIFORME	NA
WF984	F01	WF984034	11.51	3/30/98	PROTOPERIDIUM SPP.	44.20
WF984	F01	WF984034	11.51	3/30/98	THECATE DINOFLAGELLATE SPP.	NA
WF984	F01	WF984036	2.61	3/30/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	852.96
WF984	F01	WF984036	2.61	3/30/98	CHAETOCEROS COMPRESSUS	622776.44

Survey	Sta.	Sample Number	Depth (m)	Sampling Date	Plankton	Estimated Carbon Equivalence (ng Carbon/L)
WF984	F01	WF984036	2.61	3/30/98	CHAETOCEROS DEBILIS	30723.03
WF984	F01	WF984036	2.61	3/30/98	CHAETOCEROS SP. GROUP 1 DIAM <10 MICRONS	10803.76
WF984	F01	WF984036	2.61	3/30/98	CHAETOCEROS SUBTILIS	89.89
WF984	F01	WF984036	2.61	3/30/98	CHAETOCEROS TORTISSIMUS (EHRENBERG 1844) Diatom species	NA
WF984	F01	WF984036	2.61	3/30/98	CHOANOFLAGELLATE SPP.	332.40
WF984	F01	WF984036	2.61	3/30/98	CRYPTOMONADS	NA
WF984	F01	WF984036	2.61	3/30/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	39.06
WF984	F01	WF984036	2.61	3/30/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	31491.84
WF984	F01	WF984036	2.61	3/30/98	GYRODINIUM SPIRALE	26326.16
WF984	F01	WF984036	2.61	3/30/98	LEPTOCYLINDRUS DANICUS	220.26
WF984	F01	WF984036	2.61	3/30/98	NAVICULOID DIATOMS	NA
WF984	F01	WF984036	2.61	3/30/98	PENNATE DIATOM SP. GROUP 3 31-60 MICRONS LENGTH	283.09
WF984	F01	WF984036	2.61	3/30/98	PLEUROSIGMA SPP.	508.14
WF984	F01	WF984036	2.61	3/30/98	PSEUDONITZSCHIA PUNGENS	819.02
WF984	F01	WF984036	2.61	3/30/98	PYRAMIMONAS SPP.	120.03
WF984	F01	WF984036	2.61	3/30/98	RHIZOLENIA FRAGILISSIMA	200.54
WF984	F01	WF984036	2.61	3/30/98	SKELETONEMA COSTATUM GREV+CLEVE	21530.19
WF984	F01	WF984036	2.61	3/30/98	THALASSIONEMA NITZSCHIOIDES	100.77
WF984	F01	WF984036	2.61	3/30/98	THALASSIOSIRA NORDENSKIOLDII CLEVE	1914.78
WF984	F01	WF984036	2.61	3/30/98	THALASSIOSIRA SP. GROUP 3 10-20 MICRONS LENGTH	320.07
WF984	F01	WF984036	2.61	3/30/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	22616.51
WF984	F01	WF984036	2.61	3/30/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	1901.92
WF984	F01	WF984036	2.61	3/30/98	CERATIUM FUSUS	7.69
WF984	F01	WF984036	2.61	3/30/98	CERATIUM LINEATUM	4.97
WF984	F01	WF984036	2.61	3/30/98	CERATIUM LONGIPES	1125.03
WF984	F01	WF984036	2.61	3/30/98	CERATIUM SPP.	243.22
WF984	F01	WF984036	2.61	3/30/98	DINOPHYSIS ACUMINATA	2.95
WF984	F01	WF984036	2.61	3/30/98	DISTEPHANUS SPECULUM	5.62
WF984	F01	WF984036	2.61	3/30/98	GYMNODINIUM SPP. (30UM)	NA
WF984	F01	WF984036	2.61	3/30/98	GYRODINIUM SP. GROUP 3 41-70UM W 51-70UM L	50.19
WF984	F01	WF984036	2.61	3/30/98	HETEROCAPSA TRIQUETRA	1.47
WF984	F01	WF984036	2.61	3/30/98	MESODINIUM RUBRUM	NA
WF984	F01	WF984036	2.61	3/30/98	PROTOPERIDINIUM BREVE	8.14
WF984	F01	WF984036	2.61	3/30/98	PROTOPERIDINIUM BREVIPES	1.85
WF984	F01	WF984036	2.61	3/30/98	PROTOPERIDINIUM DEPRESSUM	125.46
WF984	F01	WF984036	2.61	3/30/98	PROTOPERIDINIUM PYRIFORME	NA
WF984	F01	WF984036	2.61	3/30/98	PROTOPERIDINIUM SPP.	12.31
WF984	F02	WF984053	15.31	3/30/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	2481.96
WF984	F02	WF984053	15.31	3/30/98	CHAETOCEROS BOREALIS	10027.04
WF984	F02	WF984053	15.31	3/30/98	CHAETOCEROS TORTISSIMUS (EHRENBERG 1844) Diatom species	NA
WF984	F02	WF984053	15.31	3/30/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	5314.11
WF984	F02	WF984053	15.31	3/30/98	CRYPTOMONAS SP. GROUP 2 LENGTH >10 MICRONS	886.41
WF984	F02	WF984053	15.31	3/30/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	17171.47
WF984	F02	WF984053	15.31	3/30/98	GYRODINIUM SPIRALE	93019.09
WF984	F02	WF984053	15.31	3/30/98	PSEUDONITZSCHIA PUNGENS	1071.80
WF984	F02	WF984053	15.31	3/30/98	RHIZOLENIA DELICATULA	4825.89
WF984	F02	WF984053	15.31	3/30/98	SKELETONEMA COSTATUM GREV+CLEVE	5710.60

Survey	Sta.	Sample Number	Depth (m)	Sampling Date	Plankton	Estimated Carbon Equivalence (ng Carbon/L)
WF984	F02	WF984053	15.31	3/30/98	THALASSIONEMA NITZSCHIOIDES	1335.06
WF984	F02	WF984053	15.31	3/30/98	THALASSIOSIRA NORDENSKIOLDII CLEVE	872.97
WF984	F02	WF984053	15.31	3/30/98	THALASSIOSIRA ROTULA	39210.76
WF984	F02	WF984053	15.31	3/30/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	75694.12
WF984	F02	WF984053	15.31	3/30/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	17472.28
WF984	F02	WF984053	15.31	3/30/98	AMYLAX TRIACANTHA	5.49
WF984	F02	WF984053	15.31	3/30/98	ATHECATE DINOFLAGELLATE	NA
WF984	F02	WF984053	15.31	3/30/98	CERATIUM LINEATUM	9.56
WF984	F02	WF984053	15.31	3/30/98	CERATIUM LONGIPES	2851.92
WF984	F02	WF984053	15.31	3/30/98	CERATIUM SPP.	220.87
WF984	F02	WF984053	15.31	3/30/98	CERATIUM TRIPOS	530.69
WF984	F02	WF984053	15.31	3/30/98	DINOPHYSIS NORVEGICA	NA
WF984	F02	WF984053	15.31	3/30/98	DISTEPHANUS SPECULUM	3.60
WF984	F02	WF984053	15.31	3/30/98	GYRODINIUM SP. GROUP 3 41-70UM W 51-70UM L	64.35
WF984	F02	WF984053	15.31	3/30/98	MESODINIUM RUBRUM	NA
WF984	F02	WF984053	15.31	3/30/98	PROTOPERIDIUM BREVE	62.63
WF984	F02	WF984053	15.31	3/30/98	PROTOPERIDIUM DENTICULATUM	NA
WF984	F02	WF984053	15.31	3/30/98	PROTOPERIDIUM DIVERGENS	20.65
WF984	F02	WF984053	15.31	3/30/98	PROTOPERIDIUM PYRIFORME	NA
WF984	F02	WF984053	15.31	3/30/98	PROTOPERIDIUM SPP.	47.36
WF984	F02	WF984053	15.31	3/30/98	THECATE DINOFLAGELLATE SPP.	NA
WF984	F02	WF984055	2.74	3/30/98	APEDINELLA SPP (THRONDSSEN 1971) Chrysophyte genus	NA
WF984	F02	WF984055	2.74	3/30/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	864.25
WF984	F02	WF984055	2.74	3/30/98	CERATIUM LONGIPES	62949.02
WF984	F02	WF984055	2.74	3/30/98	CERATIUM TRIPOS	24264.17
WF984	F02	WF984055	2.74	3/30/98	CHAETOCEROS COMPRESSUS	26664.99
WF984	F02	WF984055	2.74	3/30/98	CHAETOCEROS SP. GROUP 1 DIAM <10 MICRONS	6461.62
WF984	F02	WF984055	2.74	3/30/98	CHAETOCEROS SP. GROUP 2 DIAM 10-30 MICRONS	11942.45
WF984	F02	WF984055	2.74	3/30/98	CHAETOCEROS SPP.(<10UM)	1159.78
WF984	F02	WF984055	2.74	3/30/98	CHAETOCEROS TORTISSIMUS (EHRENBERG 1844) Diatom species	NA
WF984	F02	WF984055	2.74	3/30/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	2381.00
WF984	F02	WF984055	2.74	3/30/98	DICTYOCHA SPECULUM	NA
WF984	F02	WF984055	2.74	3/30/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	18030.05
WF984	F02	WF984055	2.74	3/30/98	GYRODINIUM SP. GROUP 1 5-20UM W 10-20UM L	2575.72
WF984	F02	WF984055	2.74	3/30/98	GYRODINIUM SPIRALE	55819.49
WF984	F02	WF984055	2.74	3/30/98	LEPTOCYLINDRUS DANICUS	3502.06
WF984	F02	WF984055	2.74	3/30/98	PROTOPERIDIUM BIPES	1669.04
WF984	F02	WF984055	2.74	3/30/98	PSEUDONITZSCHIA DELICATISSIMA	67.02
WF984	F02	WF984055	2.74	3/30/98	PSEUDONITZSCHIA PUNGENS	8441.67
WF984	F02	WF984055	2.74	3/30/98	PYRAMIMONAS SPP.	318.09
WF984	F02	WF984055	2.74	3/30/98	SKELETONEMA COSTATUM GREV+CLEVE	305.92
WF984	F02	WF984055	2.74	3/30/98	THALASSIONEMA NITZSCHIOIDES	333.77
WF984	F02	WF984055	2.74	3/30/98	THALASSIOSIRA NORDENSKIOLDII CLEVE	916.75
WF984	F02	WF984055	2.74	3/30/98	THALASSIOSIRA ROTULA	108221.70
WF984	F02	WF984055	2.74	3/30/98	THALASSIOSIRA SP. GROUP 3 10-20 MICRONS LENGTH	2544.52
WF984	F02	WF984055	2.74	3/30/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	67259.00
WF984	F02	WF984055	2.74	3/30/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	72577.16
WF984	F02	WF984055	2.74	3/30/98	AMYLAX TRIACANTHA	7.33
WF984	F02	WF984055	2.74	3/30/98	ATHECATE DINOFLAGELLATE	NA
WF984	F02	WF984055	2.74	3/30/98	CERATIUM FUSUS	29.59
WF984	F02	WF984055	2.74	3/30/98	CERATIUM LINEATUM	19.12

Survey	Sta.	Sample Number	Depth (m)	Sampling Date	Plankton	Estimated Carbon Equivalence (ng Carbon/L)
WF984	F02	WF984055	2.74	3/30/98	CERATIUM LONGIPES	3933.68
WF984	F02	WF984055	2.74	3/30/98	CERATIUM SPP.	597.66
WF984	F02	WF984055	2.74	3/30/98	CERATIUM TRIPOS	341.16
WF984	F02	WF984055	2.74	3/30/98	DINOPHYSIS ACUMINATA	6.61
WF984	F02	WF984055	2.74	3/30/98	DINOPHYSIS NORVEGICA	NA
WF984	F02	WF984055	2.74	3/30/98	DISTEPHANUS SPECULUM	2.40
WF984	F02	WF984055	2.74	3/30/98	GYRODINIUM SP. GROUP 3 41-70UM W 51-70UM L	21.45
WF984	F02	WF984055	2.74	3/30/98	MESODINIUM RUBRUM	NA
WF984	F02	WF984055	2.74	3/30/98	PROTOPERIDINIUM DEPRESSUM	482.53
WF984	F02	WF984055	2.74	3/30/98	PROTOPERIDINIUM PYRIFORME	NA
WF984	F02	WF984055	2.74	3/30/98	PROTOPERIDINIUM SPP.	47.36
WF984	F02	WF984055	2.74	3/30/98	THECATE DINOFLAGELLATE SPP.	NA
WF984	F27	WF9840A6	13.23	3/30/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	2619.10
WF984	F27	WF9840A6	13.23	3/30/98	CHAETOCEROS SEPTENTRIONALIS	NA
WF984	F27	WF9840A6	13.23	3/30/98	CHAETOCEROS SP. GROUP 1 DIAM <10 MICRONS	2475.86
WF984	F27	WF9840A6	13.23	3/30/98	CHOANOFAGELLATE SPP.	443.20
WF984	F27	WF9840A6	13.23	3/30/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	4148.68
WF984	F27	WF9840A6	13.23	3/30/98	CRYPTOMONAS SP. GROUP 2 LENGTH >10 MICRONS	1806.28
WF984	F27	WF9840A6	13.23	3/30/98	CYLINDROTHECA CLOSTERIUM	1662.28
WF984	F27	WF9840A6	13.23	3/30/98	DICTYOCHA SPECULUM	NA
WF984	F27	WF9840A6	13.23	3/30/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	5831.82
WF984	F27	WF9840A6	13.23	3/30/98	PENNATE DIATOM SP. GROUP 1 <10 MICRONS LENGTH	69.88
WF984	F27	WF9840A6	13.23	3/30/98	SKELETONEMA COSTATUM GREV+CLEVE	2077.98
WF984	F27	WF9840A6	13.23	3/30/98	THALASSIONEMA NITZSCHIOIDES	453.42
WF984	F27	WF9840A6	13.23	3/30/98	THALASSIOSIRA NORDENSKIOLDII CLEVE	444.72
WF984	F27	WF9840A6	13.23	3/30/98	THALASSIOSIRA ROTULA	63920.94
WF984	F27	WF9840A6	13.23	3/30/98	THALASSIOSIRA SP. GROUP 3 10-20 MICRONS LENGTH	2880.59
WF984	F27	WF9840A6	13.23	3/30/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	73956.00
WF984	F27	WF9840A6	13.23	3/30/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	19171.33
WF984	F27	WF9840A6	13.23	3/30/98	ATHECATE DINOFLAGELLATE	NA
WF984	F27	WF9840A6	13.23	3/30/98	CERATIUM FUSUS	81.73
WF984	F27	WF9840A6	13.23	3/30/98	CERATIUM LINEATUM	16.26
WF984	F27	WF9840A6	13.23	3/30/98	CERATIUM LONGIPES	4722.88
WF984	F27	WF9840A6	13.23	3/30/98	CERATIUM TRIPOS	1288.83
WF984	F27	WF9840A6	13.23	3/30/98	DINOPHYSIS ACUMINATA	4.02
WF984	F27	WF9840A6	13.23	3/30/98	DISTEPHANUS SPECULUM	9.19
WF984	F27	WF9840A6	13.23	3/30/98	HETEROCAPSA TRIQUETRA	1.61
WF984	F27	WF9840A6	13.23	3/30/98	MESODINIUM RUBRUM	NA
WF984	F27	WF9840A6	13.23	3/30/98	PROTOPERIDINIUM BREVIPIES	9.06
WF984	F27	WF9840A6	13.23	3/30/98	PROTOPERIDINIUM DEPRESSUM	102.54
WF984	F27	WF9840A6	13.23	3/30/98	PROTOPERIDINIUM SPP.	87.22
WF984	F27	WF9840A8	2.86	3/30/98	APEDINELLA SPP (THRONDSSEN 1971) Chrysophyte genus	NA
WF984	F27	WF9840A8	2.86	3/30/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	3753.04
WF984	F27	WF9840A8	2.86	3/30/98	CERATIUM LONGIPES	121147.16
WF984	F27	WF9840A8	2.86	3/30/98	CHAETOCEROS COMPRESSUS	4737.68
WF984	F27	WF9840A8	2.86	3/30/98	CHAETOCEROS SP. GROUP 1 DIAM <10 MICRONS	2338.31
WF984	F27	WF9840A8	2.86	3/30/98	CHOANOFAGELLATE SPP.	209.29
WF984	F27	WF9840A8	2.86	3/30/98	COCCONEIS SCUTELLUM EHRENB.	1583.07
WF984	F27	WF9840A8	2.86	3/30/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	4847.94
WF984	F27	WF9840A8	2.86	3/30/98	CRYPTOMONAS SP. GROUP 2 LENGTH >10 MICRONS	852.96
WF984	F27	WF9840A8	2.86	3/30/98	CYLINDROTHECA CLOSTERIUM	1413.14
WF984	F27	WF9840A8	2.86	3/30/98	DICTYOCHA SPECULUM	NA

Survey	Sta.	Sample Number	Depth (m)	Sampling Date	Plankton	Estimated Carbon Equivalence (ng Carbon/L)
WF984	F27	WF9840A8	2.86	3/30/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	26437.59
WF984	F27	WF9840A8	2.86	3/30/98	GYMNODINIUM SP. GROUP 2 21-40UM W 21-50UM L	6102.16
WF984	F27	WF9840A8	2.86	3/30/98	GYRODINIUM SPIRALE	89508.93
WF984	F27	WF9840A8	2.86	3/30/98	LICMOPHORA SPP.	281.92
WF984	F27	WF9840A8	2.86	3/30/98	PENNATE DIATOM SP. GROUP 2 10-30 MICRONS LENGTH	673.13
WF984	F27	WF9840A8	2.86	3/30/98	PSEUDONITZSCHIA DELICATISSIMA	64.49
WF984	F27	WF9840A8	2.86	3/30/98	PSEUDONITZSCHIA PUNGENS	1031.36
WF984	F27	WF9840A8	2.86	3/30/98	PYRAMIMONAS SPP.	408.11
WF984	F27	WF9840A8	2.86	3/30/98	SKELETONEMA COSTATUM GREV+CLEVE	3297.54
WF984	F27	WF9840A8	2.86	3/30/98	THALASSIONEMA NITZSCHIOIDES	256.97
WF984	F27	WF9840A8	2.86	3/30/98	THALASSIOSIRA NORDENSKIOLDII CLEVE	504.09
WF984	F27	WF9840A8	2.86	3/30/98	THALASSIOSIRA ROTULA	67925.78
WF984	F27	WF9840A8	2.86	3/30/98	THALASSIOSIRA SP. GROUP 3 10-20 MICRONS LENGTH	2612.11
WF984	F27	WF9840A8	2.86	3/30/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	101887.39
WF984	F27	WF9840A8	2.86	3/30/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	28452.68
WF984	F27	WF9840A8	2.86	3/30/98	ATHECATE DINOFLAGELLATE	NA
WF984	F27	WF9840A8	2.86	3/30/98	CERATIUM FUSUS	88.02
WF984	F27	WF9840A8	2.86	3/30/98	CERATIUM LINEATUM	16.73
WF984	F27	WF9840A8	2.86	3/30/98	CERATIUM LONGIPES	4732.71
WF984	F27	WF9840A8	2.86	3/30/98	CERATIUM TRIPOS	1074.65
WF984	F27	WF9840A8	2.86	3/30/98	DINOPHYSIS ACUMINATA	1.98
WF984	F27	WF9840A8	2.86	3/30/98	DISTEPHANUS SPECULUM	10.09
WF984	F27	WF9840A8	2.86	3/30/98	GYRODINIUM SP. GROUP 3 41-70UM W 51-70UM L	7.51
WF984	F27	WF9840A8	2.86	3/30/98	MESODINIUM RUBRUM	NA
WF984	F27	WF9840A8	2.86	3/30/98	PROTOPERIDINIUM DEPRESSUM	168.88
WF984	F27	WF9840A8	2.86	3/30/98	PROTOPERIDINIUM SPP.	55.25
WF984	F31	WF9840C9	5.63	3/31/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	1896.59
WF984	F31	WF9840C9	5.63	3/31/98	CHAETOCEROS COMPRESSUS	8359.42
WF984	F31	WF9840C9	5.63	3/31/98	CHAETOCEROS SP. GROUP 1 DIAM <10 MICRONS	2475.86
WF984	F31	WF9840C9	5.63	3/31/98	CHAETOCEROS SP. GROUP 2 DIAM 10-30 MICRONS	13273.95
WF984	F31	WF9840C9	5.63	3/31/98	CHOANOFLAGELLATE SPP.	443.20
WF984	F31	WF9840C9	5.63	3/31/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	5836.28
WF984	F31	WF9840C9	5.63	3/31/98	CYLINDROTHECA CLOSTERIUM	1662.28
WF984	F31	WF9840C9	5.63	3/31/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	9330.91
WF984	F31	WF9840C9	5.63	3/31/98	PENNATE DIATOM SP. GROUP 2 10-30 MICRONS LENGTH	1425.46
WF984	F31	WF9840C9	5.63	3/31/98	PSEUDONITZSCHIA PUNGENS	327.66
WF984	F31	WF9840C9	5.63	3/31/98	SKELETONEMA COSTATUM GREV+CLEVE	12781.42
WF984	F31	WF9840C9	5.63	3/31/98	THALASSIOSIRA NORDENSKIOLDII CLEVE	1000.77
WF984	F31	WF9840C9	5.63	3/31/98	THALASSIOSIRA ROTULA	74318.79
WF984	F31	WF9840C9	5.63	3/31/98	THALASSIOSIRA SP. GROUP 3 10-20 MICRONS LENGTH	172.86
WF984	F31	WF9840C9	5.63	3/31/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	80740.95
WF984	F31	WF9840C9	5.63	3/31/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	6846.90
WF984	F31	WF9840C9	5.63	3/31/98	ATHECATE DINOFLAGELLATE	NA
WF984	F31	WF9840C9	5.63	3/31/98	CERATIUM FUSUS	23.08
WF984	F31	WF9840C9	5.63	3/31/98	CERATIUM LINEATUM	2.49
WF984	F31	WF9840C9	5.63	3/31/98	CERATIUM LONGIPES	2301.21
WF984	F31	WF9840C9	5.63	3/31/98	CERATIUM SPP.	135.12
WF984	F31	WF9840C9	5.63	3/31/98	CERATIUM TRIPOS	197.11
WF984	F31	WF9840C9	5.63	3/31/98	DINOPHYSIS ACUMINATA	0.49

Survey	Sta.	Sample Number	Depth (m)	Sampling Date	Plankton	Estimated Carbon Equivalence (ng Carbon/L)
WF984	F31	WF9840C9	5.63	3/31/98	DISTEPHANUS SPECULUM	3.43
WF984	F31	WF9840C9	5.63	3/31/98	MESODINIUM RUBRUM	NA
WF984	F31	WF9840C9	5.63	3/31/98	PROTOPERIDINIUM SPP.	24.63
WF984	F31	WF9840CA	2.48	3/31/98	ASTERIONELLA FORMOSA	444.74
WF984	F31	WF9840CA	2.48	3/31/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	3058.13
WF984	F31	WF9840CA	2.48	3/31/98	CHAETOCEROS SP. GROUP 1 DIAM <10 MICRONS	1656.83
WF984	F31	WF9840CA	2.48	3/31/98	CHOANOFLLAGELLATE SPP.	978.74
WF984	F31	WF9840CA	2.48	3/31/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	8281.73
WF984	F31	WF9840CA	2.48	3/31/98	CYLINDROTHECA CLOSTERIUM	489.52
WF984	F31	WF9840CA	2.48	3/31/98	EUTREPTIA/EUTREPTIELLA SPP.	NA
WF984	F31	WF9840CA	2.48	3/31/98	GRAMMATOPHORA MARINA	308.91
WF984	F31	WF9840CA	2.48	3/31/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	17171.47
WF984	F31	WF9840CA	2.48	3/31/98	PENNATE DIATOM SP. GROUP 1 <10 MICRONS LENGTH	144.06
WF984	F31	WF9840CA	2.48	3/31/98	PSEUDONITZSCHIA PUNGENS	1125.56
WF984	F31	WF9840CA	2.48	3/31/98	RHIZOLENIA FRAGILISSIMA	1062.86
WF984	F31	WF9840CA	2.48	3/31/98	RHIZOLENIA SETIGERA	4475.82
WF984	F31	WF9840CA	2.48	3/31/98	SKELETONEMA COSTATUM GREV+CLEVE	12483.53
WF984	F31	WF9840CA	2.48	3/31/98	THALASSIOSIRA NORDENSKIOLDII CLEVE	261.93
WF984	F31	WF9840CA	2.48	3/31/98	THALASSIOSIRA ROTULA	56471.63
WF984	F31	WF9840CA	2.48	3/31/98	THALASSIOSIRA SP. GROUP 3 10-20 MICRONS LENGTH	2375.23
WF984	F31	WF9840CA	2.48	3/31/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	134850.96
WF984	F31	WF9840CA	2.48	3/31/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	38304.61
WF984	F31	WF9840CA	2.48	3/31/98	ATHECATE DINOFLAGELLATE	NA
WF984	F31	WF9840CA	2.48	3/31/98	CERATIUM FUSUS	29.59
WF984	F31	WF9840CA	2.48	3/31/98	CERATIUM LONGIPES	3884.51
WF984	F31	WF9840CA	2.48	3/31/98	CERATIUM SPP.	259.85
WF984	F31	WF9840CA	2.48	3/31/98	CERATIUM TRIPOS	265.35
WF984	F31	WF9840CA	2.48	3/31/98	DINOPHYSIS ACUMINATA	0.47
WF984	F31	WF9840CA	2.48	3/31/98	DINOPHYSIS NORVEGICA	NA
WF984	F31	WF9840CA	2.48	3/31/98	DISTEPHANUS SPECULUM	0.90
WF984	F31	WF9840CA	2.48	3/31/98	GYRODINIUM SP. GROUP 3 41-70UM W 51-70UM L	10.73
WF984	F31	WF9840CA	2.48	3/31/98	HETEROCAPSA TRIQUETRA	0.47
WF984	F31	WF9840CA	2.48	3/31/98	MESODINIUM RUBRUM	NA
WF984	F31	WF9840CA	2.48	3/31/98	PROTOPERIDINIUM DEPRESSUM	60.32
WF984	F31	WF9840CA	2.48	3/31/98	PROTOPERIDINIUM PYRIFORME	NA
WF984	F31	WF9840CA	2.48	3/31/98	PROTOPERIDINIUM SPP.	15.79
WF984	F30	WF9840D5	6.54	3/31/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	5142.87
WF984	F30	WF9840D5	6.54	3/31/98	CHAETOCEROS SP. GROUP 1 DIAM <10 MICRONS	4376.52
WF984	F30	WF9840D5	6.54	3/31/98	CHAETOCEROS SP. GROUP 2 DIAM 10-30 MICRONS	13314.92
WF984	F30	WF9840D5	6.54	3/31/98	CHAETOCEROS SUBTILIS	449.46
WF984	F30	WF9840D5	6.54	3/31/98	CHAETOCEROS TORTISSIMUS (EHRENBERG 1844) Diatom species	NA
WF984	F30	WF9840D5	6.54	3/31/98	CHOANOFLLAGELLATE SPP.	369.33
WF984	F30	WF9840D5	6.54	3/31/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	7519.97
WF984	F30	WF9840D5	6.54	3/31/98	CRYPTOMONAS SP. GROUP 2 LENGTH >10 MICRONS	4390.26
WF984	F30	WF9840D5	6.54	3/31/98	DINOBRYON SPP.	362.93
WF984	F30	WF9840D5	6.54	3/31/98	EUTREPTIA/EUTREPTIELLA SPP.	NA
WF984	F30	WF9840D5	6.54	3/31/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	8099.75
WF984	F30	WF9840D5	6.54	3/31/98	LICMOPHORA SPP.	1381.76
WF984	F30	WF9840D5	6.54	3/31/98	PENNATE DIATOM SP. GROUP 1 <10 MICRONS LENGTH	873.52
WF984	F30	WF9840D5	6.54	3/31/98	PENNATE DIATOM SP. GROUP 3 31-60 MICRONS LENGTH	283.09

Survey	Sta.	Sample Number	Depth (m)	Sampling Date	Plankton	Estimated Carbon Equivalence (ng Carbon/L)
WF984	F30	WF9840D5	6.54	3/31/98	RHIZOLENIA SETIGERA	21109.32
WF984	F30	WF9840D5	6.54	3/31/98	SKELETONEMA COSTATUM GREV+CLEVE	20494.15
WF984	F30	WF9840D5	6.54	3/31/98	THALASSIONEMA NITZSCHIOIDES	1889.51
WF984	F30	WF9840D5	6.54	3/31/98	THALASSIOSIRA NORDENSKIOLDII CLEVE	617.67
WF984	F30	WF9840D5	6.54	3/31/98	THALASSIOSIRA ROTULA	44395.93
WF984	F30	WF9840D5	6.54	3/31/98	THALASSIOSIRA SP. GROUP 3 10-20 MICRONS LENGTH	2560.89
WF984	F30	WF9840D5	6.54	3/31/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	141667.32
WF984	F30	WF9840D5	6.54	3/31/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	15215.34
WF984	F30	WF9840D5	6.54	3/31/98	ATHECATE DINOFLAGELLATE	NA
WF984	F30	WF9840D5	6.54	3/31/98	CERATIUM LONGIPES	98.34
WF984	F30	WF9840D5	6.54	3/31/98	CERATIUM TRIPOS	18.95
WF984	F30	WF9840D5	6.54	3/31/98	DINOPHYSIS NORVEGICA	NA
WF984	F30	WF9840D5	6.54	3/31/98	GYRODINIUM SP. GROUP 3 41-70UM W 51-70UM L	37.54
WF984	F30	WF9840D5	6.54	3/31/98	MESODINIUM RUBRUM	NA
WF984	F30	WF9840D5	6.54	3/31/98	PROTOPERIDIUM DEPRESSUM	120.63
WF984	F30	WF9840D5	6.54	3/31/98	PROTOPERIDIUM PYRIFORME	NA
WF984	F30	WF9840D5	6.54	3/31/98	PROTOPERIDIUM SPP.	23.68
WF984	F30	WF9840D5	6.54	3/31/98	THECATE DINOFLAGELLATE SPP.	NA
WF984	F30	WF9840D6	2.39	3/31/98	ASTERIONELLA FORMOSA	161.83
WF984	F30	WF9840D6	2.39	3/31/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	4606.01
WF984	F30	WF9840D6	2.39	3/31/98	CHAETOCEROS COMPRESSUS	16718.83
WF984	F30	WF9840D6	2.39	3/31/98	CHAETOCEROS SP. GROUP 2 DIAM 10-30 MICRONS	22120.06
WF984	F30	WF9840D6	2.39	3/31/98	CHAETOCEROS SUBTILIS	520.09
WF984	F30	WF9840D6	2.39	3/31/98	CHOANOFLAGELLATE SPP.	332.40
WF984	F30	WF9840D6	2.39	3/31/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	10020.12
WF984	F30	WF9840D6	2.39	3/31/98	CRYPTOMONAS SP. GROUP 2 LENGTH >10 MICRONS	4741.48
WF984	F30	WF9840D6	2.39	3/31/98	DINOBYRON SPP.	419.96
WF984	F30	WF9840D6	2.39	3/31/98	EUTREPTIA/EUTREPTIELLA SPP.	NA
WF984	F30	WF9840D6	2.39	3/31/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	13996.37
WF984	F30	WF9840D6	2.39	3/31/98	GYRODINIUM SP. GROUP 1 5-20UM W 10-20UM L	1749.55
WF984	F30	WF9840D6	2.39	3/31/98	GYROSIGMA SPP.	13717.93
WF984	F30	WF9840D6	2.39	3/31/98	LICMOPHORA SPP.	213.22
WF984	F30	WF9840D6	2.39	3/31/98	NAVICULOID DIATOMS	NA
WF984	F30	WF9840D6	2.39	3/31/98	ODONTELLA AURITA	2702.59
WF984	F30	WF9840D6	2.39	3/31/98	PENNATE DIATOM SP. GROUP 1 <10 MICRONS LENGTH	134.79
WF984	F30	WF9840D6	2.39	3/31/98	PLEUROSIGMA SPP.	1959.99
WF984	F30	WF9840D6	2.39	3/31/98	PSEUDONITZSCHIA PUNGENS	468.08
WF984	F30	WF9840D6	2.39	3/31/98	PYRAMIMONAS SPP.	648.17
WF984	F30	WF9840D6	2.39	3/31/98	RHIZOLENIA SETIGERA	3257.34
WF984	F30	WF9840D6	2.39	3/31/98	SKELETONEMA COSTATUM GREV+CLEVE	10599.23
WF984	F30	WF9840D6	2.39	3/31/98	THALASSIONEMA NITZSCHIOIDES	97.17
WF984	F30	WF9840D6	2.39	3/31/98	THALASSIOSIRA ROTULA	66784.17
WF984	F30	WF9840D6	2.39	3/31/98	THALASSIOSIRA SP. GROUP 3 10-20 MICRONS LENGTH	2716.38
WF984	F30	WF9840D6	2.39	3/31/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	112630.23
WF984	F30	WF9840D6	2.39	3/31/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	20540.71
WF984	F30	WF9840D6	2.39	3/31/98	ATHECATE DINOFLAGELLATE	NA
WF984	F30	WF9840D6	2.39	3/31/98	CERATIUM FUSUS	22.19
WF984	F30	WF9840D6	2.39	3/31/98	CERATIUM LINEATUM	4.78
WF984	F30	WF9840D6	2.39	3/31/98	CERATIUM LONGIPES	479.42
WF984	F30	WF9840D6	2.39	3/31/98	CERATIUM SPP.	38.98
WF984	F30	WF9840D6	2.39	3/31/98	CERATIUM TRIPOS	37.91

Survey	Sta.	Sample Number	Depth (m)	Sampling Date	Plankton	Estimated Carbon Equivalence (ng Carbon/L)
WF984	F30	WF9840D6	2.39	3/31/98	DINOPHYSIS ACUMINATA	0.94
WF984	F30	WF9840D6	2.39	3/31/98	DINOPHYSIS NORVEGICA	NA
WF984	F30	WF9840D6	2.39	3/31/98	DISTEPHANUS SPECULUM	0.60
WF984	F30	WF9840D6	2.39	3/31/98	GYRODINIUM SP. GROUP 3 41-70UM W 51-70UM L	5.36
WF984	F30	WF9840D6	2.39	3/31/98	MESODINIUM RUBRUM	NA
WF984	F30	WF9840D6	2.39	3/31/98	PROTOPERIDINIUM DEPRESSUM	120.63
WF984	F30	WF9840D6	2.39	3/31/98	PROTOPERIDINIUM PYRIFORME	NA
WF984	F23	WF9840EA	9.40	4/1/98	ASTERIONELLA FORMOSA	138.98
WF984	F23	WF9840EA	9.40	4/1/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	2393.32
WF984	F23	WF9840EA	9.40	4/1/98	CERATIUM LONGIPES	157349.88
WF984	F23	WF9840EA	9.40	4/1/98	CHAETOCEROS SP. GROUP 1 DIAM <10 MICRONS	662.73
WF984	F23	WF9840EA	9.40	4/1/98	CHAETOCEROS SP. GROUP 2 DIAM 10-30 MICRONS	18320.81
WF984	F23	WF9840EA	9.40	4/1/98	CHOANOFLLAGELLATE SPP.	326.25
WF984	F23	WF9840EA	9.40	4/1/98	COCCONEIS SCUTELLUM EHRENB.	2467.72
WF984	F23	WF9840EA	9.40	4/1/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	8799.34
WF984	F23	WF9840EA	9.40	4/1/98	CRYPTOMONAS SP. GROUP 2 LENGTH >10 MICRONS	1994.43
WF984	F23	WF9840EA	9.40	4/1/98	CYLINDROTHECA CLOSTERIUM	1529.74
WF984	F23	WF9840EA	9.40	4/1/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	18888.62
WF984	F23	WF9840EA	9.40	4/1/98	GYRODINIUM SPIRALE	17443.59
WF984	F23	WF9840EA	9.40	4/1/98	GYROSIGMA SPP.	1683.23
WF984	F23	WF9840EA	9.40	4/1/98	HETEROCAPSA ROTUNDATA	337.93
WF984	F23	WF9840EA	9.40	4/1/98	LICMOPHORA SPP.	183.11
WF984	F23	WF9840EA	9.40	4/1/98	PARALIA SULCATA	12755.72
WF984	F23	WF9840EA	9.40	4/1/98	PENNATE DIATOM SP. GROUP 1 <10 MICRONS LENGTH	102.88
WF984	F23	WF9840EA	9.40	4/1/98	PENNATE DIATOM SP. GROUP 3 31-60 MICRONS LENGTH	187.55
WF984	F23	WF9840EA	9.40	4/1/98	PSEUDONITZSCHIA DELICATISSIMA	41.89
WF984	F23	WF9840EA	9.40	4/1/98	SKELETONEMA COSTATUM GREV+CLEVE	11053.13
WF984	F23	WF9840EA	9.40	4/1/98	THALASSIONEMA NITZSCHIOIDES	83.45
WF984	F23	WF9840EA	9.40	4/1/98	THALASSIOSIRA ROTULA	83825.07
WF984	F23	WF9840EA	9.40	4/1/98	THALASSIOSIRA SP. GROUP 3 10-20 MICRONS LENGTH	1272.44
WF984	F23	WF9840EA	9.40	4/1/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	113874.14
WF984	F23	WF9840EA	9.40	4/1/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	14112.23
WF984	F23	WF9840EA	9.40	4/1/98	ALEXANDRIUM TAMARENSE	0.51
WF984	F23	WF9840EA	9.40	4/1/98	ATHECATE DINOFLAGELLATE	NA
WF984	F23	WF9840EA	9.40	4/1/98	CERATIUM FUSUS	14.79
WF984	F23	WF9840EA	9.40	4/1/98	CERATIUM LONGIPES	1425.96
WF984	F23	WF9840EA	9.40	4/1/98	CERATIUM SPP.	51.97
WF984	F23	WF9840EA	9.40	4/1/98	CERATIUM TRIPOS	113.72
WF984	F23	WF9840EA	9.40	4/1/98	DINOPHYSIS NORVEGICA	NA
WF984	F23	WF9840EA	9.40	4/1/98	DISTEPHANUS SPECULUM	3.00
WF984	F23	WF9840EA	9.40	4/1/98	PROTOPERIDINIUM PYRIFORME	NA
WF984	F23	WF9840EA	9.40	4/1/98	PROTOPERIDINIUM SPP.	31.57
WF984	F23	WF9840EA	9.40	4/1/98	THECATE DINOFLAGELLATE SPP.	NA
WF984	F23	WF9840F3	2.78	4/1/98	ASTERIONELLA FORMOSA	681.80
WF984	F23	WF9840F3	2.78	4/1/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	4435.42
WF984	F23	WF9840F3	2.78	4/1/98	CHAETOCEROS COMPRESSUS	2683.66
WF984	F23	WF9840F3	2.78	4/1/98	CHAETOCEROS DEBILIS	1095.90
WF984	F23	WF9840F3	2.78	4/1/98	CHAETOCEROS SP. GROUP 2 DIAM 10-30 MICRONS	11539.59
WF984	F23	WF9840F3	2.78	4/1/98	COCCONEIS SCUTELLUM EHRENB.	403.58
WF984	F23	WF9840F3	2.78	4/1/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	8734.88
WF984	F23	WF9840F3	2.78	4/1/98	CRYPTOMONAS SP. GROUP 2 LENGTH >10 MICRONS	1304.53

Survey	Sta.	Sample Number	Depth (m)	Sampling Date	Plankton	Estimated Carbon Equivalence (ng Carbon/L)
WF984	F23	WF9840F3	2.78	4/1/98	CYLINDROTHECA CLOSTERIUM	2401.06
WF984	F23	WF9840F3	2.78	4/1/98	DINOBRYON SPP.	471.80
WF984	F23	WF9840F3	2.78	4/1/98	EUTREPTIA/EUTREPTIELLA SPP.	NA
WF984	F23	WF9840F3	2.78	4/1/98	GRAMMATOPHORA MARINA	252.57
WF984	F23	WF9840F3	2.78	4/1/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	11793.24
WF984	F23	WF9840F3	2.78	4/1/98	GYROSIGMA SPP.	2201.96
WF984	F23	WF9840F3	2.78	4/1/98	MELOSIRA SP. GROUP 1 DIAM <20 MICRONS	2128.23
WF984	F23	WF9840F3	2.78	4/1/98	ODONTELLA AURITA	6072.48
WF984	F23	WF9840F3	2.78	4/1/98	PENNATE DIATOM SP. GROUP 1 <10 MICRONS LENGTH	201.88
WF984	F23	WF9840F3	2.78	4/1/98	PENNATE DIATOM SP. GROUP 3 31-60 MICRONS LENGTH	736.05
WF984	F23	WF9840F3	2.78	4/1/98	PROTOPERIDINIUM BIPES	1364.62
WF984	F23	WF9840F3	2.78	4/1/98	RHIZOLENIA SETIGERA	3659.48
WF984	F23	WF9840F3	2.78	4/1/98	SCENESDESMUS QUADRICAUDA	61.65
WF984	F23	WF9840F3	2.78	4/1/98	SKELETONEMA COSTATUM GREV+CLEVE	12408.10
WF984	F23	WF9840F3	2.78	4/1/98	THALASSIONEMA NITZSCHIOIDES	327.52
WF984	F23	WF9840F3	2.78	4/1/98	THALASSIOSIRA NORDENSKIOLDII CLEVE	642.38
WF984	F23	WF9840F3	2.78	4/1/98	THALASSIOSIRA ROTULA	86572.07
WF984	F23	WF9840F3	2.78	4/1/98	THALASSIOSIRA SP. GROUP 3 10-20 MICRONS LENGTH	1248.44
WF984	F23	WF9840F3	2.78	4/1/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	112378.94
WF984	F23	WF9840F3	2.78	4/1/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	25713.92
WF984	F23	WF9840F3	2.78	4/1/98	ALEXANDRIUM TAMARENSE	1.02
WF984	F23	WF9840F3	2.78	4/1/98	ATHECATE DINOFLAGELLATE	NA
WF984	F23	WF9840F3	2.78	4/1/98	CERATIUM FUSUS	14.79
WF984	F23	WF9840F3	2.78	4/1/98	CERATIUM LONGIPES	1155.52
WF984	F23	WF9840F3	2.78	4/1/98	CERATIUM SPP.	77.96
WF984	F23	WF9840F3	2.78	4/1/98	CERATIUM TRIPOS	113.72
WF984	F23	WF9840F3	2.78	4/1/98	DINOPHYSIS NORVEGICA	NA
WF984	F23	WF9840F3	2.78	4/1/98	DISTEPHANUS SPECULUM	2.40
WF984	F23	WF9840F3	2.78	4/1/98	GYRODINIUM SP. GROUP 3 41-70UM W 51-70UM L	5.36
WF984	F23	WF9840F3	2.78	4/1/98	MESODINIUM RUBRUM	NA
WF984	F23	WF9840F3	2.78	4/1/98	PROTOPERIDINIUM PYRIFORME	NA
WF984	F23	WF9840F3	2.78	4/1/98	PROTOPERIDINIUM SPP.	23.68
WF984	F23	WF9840F3	2.78	4/1/98	THECATE DINOFLAGELLATE SPP.	NA
WF984	N04	WF9840FC	13.90	4/1/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	1669.80
WF984	N04	WF9840FC	13.90	4/1/98	CERATIUM LONGIPES	138962.92
WF984	N04	WF9840FC	13.90	4/1/98	CERATIUM TRIPOS	23806.36
WF984	N04	WF9840FC	13.90	4/1/98	CHOANOFAGELLATE SPP.	128.04
WF984	N04	WF9840FC	13.90	4/1/98	COSCIDISCUS RADIATUS	7543.40
WF984	N04	WF9840FC	13.90	4/1/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	3128.31
WF984	N04	WF9840FC	13.90	4/1/98	CYLINDROTHECA CLOSTERIUM	240.14
WF984	N04	WF9840FC	13.90	4/1/98	DICTYOCHA SPECULUM	NA
WF984	N04	WF9840FC	13.90	4/1/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	29651.57
WF984	N04	WF9840FC	13.90	4/1/98	GYMNODINIUM SP. GROUP 2 21-40UM W 21-50UM L	27998.16
WF984	N04	WF9840FC	13.90	4/1/98	GYRODINIUM SPIRALE	54758.41
WF984	N04	WF9840FC	13.90	4/1/98	NAVICULOID DIATOMS	NA
WF984	N04	WF9840FC	13.90	4/1/98	PSEUDONITZSCHIA PUNGENS	157.76
WF984	N04	WF9840FC	13.90	4/1/98	SKELETONEMA COSTATUM GREV+CLEVE	210.14
WF984	N04	WF9840FC	13.90	4/1/98	THALASSIONEMA NITZSCHIOIDES	327.52
WF984	N04	WF9840FC	13.90	4/1/98	THALASSIOSIRA NORDENSKIOLDII CLEVE	256.95
WF984	N04	WF9840FC	13.90	4/1/98	THALASSIOSIRA ROTULA	9233.02

Survey	Sta.	Sample Number	Depth (m)	Sampling Date	Plankton	Estimated Carbon Equivalence (ng Carbon/L)
WF984	N04	WF9840FC	13.90	4/1/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	49655.81
WF984	N04	WF9840FC	13.90	4/1/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	9494.37
WF984	N04	WF9840FC	13.90	4/1/98	CERATIUM FUSUS	118.34
WF984	N04	WF9840FC	13.90	4/1/98	CERATIUM LINEATUM	40.64
WF984	N04	WF9840FC	13.90	4/1/98	CERATIUM LONGIPES	16201.86
WF984	N04	WF9840FC	13.90	4/1/98	CERATIUM SPP.	857.51
WF984	N04	WF9840FC	13.90	4/1/98	CERATIUM TRIPOS	1497.31
WF984	N04	WF9840FC	13.90	4/1/98	DINOPHYSIS ACUMINATA	1.89
WF984	N04	WF9840FC	13.90	4/1/98	DINOPHYSIS NORVEGICA	NA
WF984	N04	WF9840FC	13.90	4/1/98	DISTEPHANUS SPECULUM	9.61
WF984	N04	WF9840FC	13.90	4/1/98	MESODINIUM RUBRUM	NA
WF984	N04	WF9840FC	13.90	4/1/98	PROTOPERIDINIUM DEPRESSUM	1085.69
WF984	N04	WF9840FC	13.90	4/1/98	PROTOPERIDINIUM PALLIDUM	60.07
WF984	N04	WF9840FC	13.90	4/1/98	PROTOPERIDINIUM PYRIFORME	NA
WF984	N04	WF9840FC	13.90	4/1/98	PROTOPERIDINIUM SPP.	78.93
WF984	N04	WF9840FE	2.98	4/1/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	1263.14
WF984	N04	WF9840FE	2.98	4/1/98	CERATIUM LONGIPES	314699.76
WF984	N04	WF9840FE	2.98	4/1/98	CERATIUM TRIPOS	60651.69
WF984	N04	WF9840FE	2.98	4/1/98	CHAETOCEROS BOREALIS	1880.34
WF984	N04	WF9840FE	2.98	4/1/98	CHAETOCEROS DEBILIS	8376.13
WF984	N04	WF9840FE	2.98	4/1/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	4037.34
WF984	N04	WF9840FE	2.98	4/1/98	CRYPTOMONAS SP. GROUP 2 LENGTH >10 MICRONS	332.41
WF984	N04	WF9840FE	2.98	4/1/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	17603.30
WF984	N04	WF9840FE	2.98	4/1/98	GYRODINIUM SP. GROUP 1 5-20UM W 10-20UM L	1288.05
WF984	N04	WF9840FE	2.98	4/1/98	NAVICULOID DIATOMS	NA
WF984	N04	WF9840FE	2.98	4/1/98	THALASSIONEMA NITZSCHIOIDES	1335.06
WF984	N04	WF9840FE	2.98	4/1/98	THALASSIOSIRA ROTULA	23526.46
WF984	N04	WF9840FE	2.98	4/1/98	THALASSIOSIRA SP. GROUP 3 10-20 MICRONS LENGTH	954.33
WF984	N04	WF9840FE	2.98	4/1/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	73418.85
WF984	N04	WF9840FE	2.98	4/1/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	14112.23
WF984	N04	WF9840FE	2.98	4/1/98	ATHECATE DINOFLAGELLATE	NA
WF984	N04	WF9840FE	2.98	4/1/98	CERATIUM FUSUS	44.38
WF984	N04	WF9840FE	2.98	4/1/98	CERATIUM LINEATUM	69.32
WF984	N04	WF9840FE	2.98	4/1/98	CERATIUM LONGIPES	10080.07
WF984	N04	WF9840FE	2.98	4/1/98	CERATIUM SPP.	649.63
WF984	N04	WF9840FE	2.98	4/1/98	CERATIUM TRIPOS	1042.43
WF984	N04	WF9840FE	2.98	4/1/98	DINOPHYSIS ACUMINATA	2.83
WF984	N04	WF9840FE	2.98	4/1/98	DINOPHYSIS NORVEGICA	NA
WF984	N04	WF9840FE	2.98	4/1/98	DISTEPHANUS SPECULUM	20.42
WF984	N04	WF9840FE	2.98	4/1/98	MESODINIUM RUBRUM	NA
WF984	N04	WF9840FE	2.98	4/1/98	PROTOPERIDINIUM DEPRESSUM	844.42
WF984	N04	WF9840FE	2.98	4/1/98	PROTOPERIDINIUM PYRIFORME	NA
WF984	N04	WF9840FE	2.98	4/1/98	PROTOPERIDINIUM SPP.	15.79
WF984	N04	WF9840FE	2.98	4/1/98	PROTOPERIDINIUM TROCHOIDIUM	2.64
WF984	N18	WF98411E	10.77	4/1/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	1396.10
WF984	N18	WF98411E	10.77	4/1/98	CERATIUM LONGIPES	94423.52
WF984	N18	WF98411E	10.77	4/1/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	3830.30
WF984	N18	WF98411E	10.77	4/1/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	29191.51
WF984	N18	WF98411E	10.77	4/1/98	GYRODINIUM SPIRALE	69764.32
WF984	N18	WF98411E	10.77	4/1/98	NAVICULOID DIATOMS	NA
WF984	N18	WF98411E	10.77	4/1/98	PENNATE DIATOM SP. GROUP 3 31-60 MICRONS LENGTH	300.08
WF984	N18	WF98411E	10.77	4/1/98	PSEUDONITZSCHIA PUNGENS	602.98

Survey	Sta.	Sample Number	Depth (m)	Sampling Date	Plankton	Estimated Carbon Equivalence (ng Carbon/L)
WF984	N18	WF98411E	10.77	4/1/98	PYRAMIMONAS SPP.	954.26
WF984	N18	WF98411E	10.77	4/1/98	RHIZOLENIA FRAGILISSIMA	1062.86
WF984	N18	WF98411E	10.77	4/1/98	THALASSIONEMA NITZSCHIOIDES	801.15
WF984	N18	WF98411E	10.77	4/1/98	THALASSIOSIRA NORDENSKIOLDII CLEVE	130.96
WF984	N18	WF98411E	10.77	4/1/98	THALASSIOSIRA ROTULA	11763.23
WF984	N18	WF98411E	10.77	4/1/98	THALASSIOSIRA SP. GROUP 3 10-20 MICRONS LENGTH	339.32
WF984	N18	WF98411E	10.77	4/1/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	55771.69
WF984	N18	WF98411E	10.77	4/1/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	15120.24
WF984	N18	WF98411E	10.77	4/1/98	CERATIUM FUSUS	36.98
WF984	N18	WF98411E	10.77	4/1/98	CERATIUM LONGIPES	11161.83
WF984	N18	WF98411E	10.77	4/1/98	CERATIUM SPP.	643.13
WF984	N18	WF98411E	10.77	4/1/98	CERATIUM TRIPOS	1336.21
WF984	N18	WF98411E	10.77	4/1/98	DISTEPHANUS SPECULUM	33.63
WF984	N18	WF98411E	10.77	4/1/98	PROTOPERIDINIUM TROCHOIDIUM	1.76
WF984	N18	WF984120	2.93	4/1/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	1200.17
WF984	N18	WF984120	2.93	4/1/98	CERATIUM LONGIPES	262485.52
WF984	N18	WF984120	2.93	4/1/98	CHAETOCEROS COMPRESSUS	1610.19
WF984	N18	WF984120	2.93	4/1/98	CHAETOCEROS SP. GROUP 2 DIAM 10-30 MICRONS	2130.39
WF984	N18	WF984120	2.93	4/1/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	3250.19
WF984	N18	WF984120	2.93	4/1/98	DICTYOCHA SPECULUM	NA
WF984	N18	WF984120	2.93	4/1/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	12130.19
WF984	N18	WF984120	2.93	4/1/98	PENNATE DIATOM SP. GROUP 2 10-30 MICRONS LENGTH	617.70
WF984	N18	WF984120	2.93	4/1/98	PSEUDONITZSCHIA PUNGENS	1025.44
WF984	N18	WF984120	2.93	4/1/98	THALASSIOSIRA ROTULA	6925.77
WF984	N18	WF984120	2.93	4/1/98	THALASSIOSIRA SP. GROUP 3 10-20 MICRONS LENGTH	499.37
WF984	N18	WF984120	2.93	4/1/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	45996.96
WF984	N18	WF984120	2.93	4/1/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	15823.95
WF984	N18	WF984120	2.93	4/1/98	CERATIUM FUSUS	59.17
WF984	N18	WF984120	2.93	4/1/98	CERATIUM LINEATUM	57.37
WF984	N18	WF984120	2.93	4/1/98	CERATIUM LONGIPES	12931.99
WF984	N18	WF984120	2.93	4/1/98	CERATIUM SPP.	870.50
WF984	N18	WF984120	2.93	4/1/98	CERATIUM TRIPOS	1592.08
WF984	N18	WF984120	2.93	4/1/98	DINOPHYSIS NORVEGICA	NA
WF984	N18	WF984120	2.93	4/1/98	DISTEPHANUS SPECULUM	59.45
WF984	N18	WF984120	2.93	4/1/98	MESODINIUM RUBRUM	NA
WF984	N18	WF984120	2.93	4/1/98	PROTOPERIDINIUM DEPRESSUM	60.32
WF984	N18	WF984120	2.93	4/1/98	PROTOPERIDINIUM PALLIDUM	40.05
WF984	N18	WF984120	2.93	4/1/98	PROTOPERIDINIUM SPP.	7.89
WF984	N18	WF984120	2.93	4/1/98	PROTOPERIDINIUM TROCHOIDIUM	0.88
WF984	F25	WF9841E8	6.12	4/1/98	ASTERIONELLA FORMOSA	136.36
WF984	F25	WF9841E8	6.12	4/1/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	2348.16
WF984	F25	WF9841E8	6.12	4/1/98	CERATIUM LONGIPES	115802.43
WF984	F25	WF9841E8	6.12	4/1/98	CHAETOCEROS COMPRESSUS	4025.48
WF984	F25	WF9841E8	6.12	4/1/98	CHAETOCEROS SP. GROUP 1 DIAM <10 MICRONS	2275.79
WF984	F25	WF9841E8	6.12	4/1/98	CHAETOCEROS SP. GROUP 2 DIAM 10-30 MICRONS	11983.42
WF984	F25	WF9841E8	6.12	4/1/98	CHOANOFAGELLATE SPP.	320.09
WF984	F25	WF9841E8	6.12	4/1/98	COCCONEIS SCUTELLUM EHRENB.	2421.16
WF984	F25	WF9841E8	6.12	4/1/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	8633.32
WF984	F25	WF9841E8	6.12	4/1/98	EUTREPTIA/EUTREPTIELLA SPP.	NA
WF984	F25	WF9841E8	6.12	4/1/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	15162.74
WF984	F25	WF9841E8	6.12	4/1/98	GYROSIGMA SPP.	3302.94
WF984	F25	WF9841E8	6.12	4/1/98	NAVICULOID DIATOMS	NA

Survey	Sta.	Sample Number	Depth (m)	Sampling Date	Plankton	Estimated Carbon Equivalence (ng Carbon/L)
WF984	F25	WF9841E8	6.12	4/1/98	PENNATE DIATOM SP. GROUP 2 10-30 MICRONS LENGTH	386.12
WF984	F25	WF9841E8	6.12	4/1/98	PSEUDONITZSCHIA PUNGENS	2366.06
WF984	F25	WF9841E8	6.12	4/1/98	RHIZOLENIA SETIGERA	21953.69
WF984	F25	WF9841E8	6.12	4/1/98	SKELETONEMA COSTATUM GREV+CLEVE	17786.61
WF984	F25	WF9841E8	6.12	4/1/98	THALASSIOSIRA NORDENSKIOLDII CLEVE	722.78
WF984	F25	WF9841E8	6.12	4/1/98	THALASSIOSIRA ROTULA	69257.66
WF984	F25	WF9841E8	6.12	4/1/98	THALASSIOSIRA SP. GROUP 3 10-20 MICRONS LENGTH	4993.74
WF984	F25	WF9841E8	6.12	4/1/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	103558.50
WF984	F25	WF9841E8	6.12	4/1/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	31647.90
WF984	F25	WF9841E8	6.12	4/1/98	ATHECATE DINOFLAGELLATE	NA
WF984	F25	WF9841E8	6.12	4/1/98	CERATIUM FUSUS	22.19
WF984	F25	WF9841E8	6.12	4/1/98	CERATIUM LINEATUM	11.95
WF984	F25	WF9841E8	6.12	4/1/98	CERATIUM LONGIPES	2065.18
WF984	F25	WF9841E8	6.12	4/1/98	CERATIUM SPP.	136.42
WF984	F25	WF9841E8	6.12	4/1/98	CERATIUM TRIPOS	104.24
WF984	F25	WF9841E8	6.12	4/1/98	DINOPHYSIS ACUMINATA	0.94
WF984	F25	WF9841E8	6.12	4/1/98	DINOPHYSIS NORVEGICA	NA
WF984	F25	WF9841E8	6.12	4/1/98	DISTEPHANUS SPECULUM	7.21
WF984	F25	WF9841E8	6.12	4/1/98	GYRODINIUM SP. GROUP 3 41-70UM W 51-70UM L	5.36
WF984	F25	WF9841E8	6.12	4/1/98	MESODINIUM RUBRUM	NA
WF984	F25	WF9841E8	6.12	4/1/98	PROTOPERIDINIUM DEPRESSUM	120.63
WF984	F25	WF9841E8	6.12	4/1/98	PROTOPERIDINIUM PALLIDUM	40.05
WF984	F25	WF9841E8	6.12	4/1/98	PROTOPERIDINIUM PYRIFORME	NA
WF984	F25	WF9841E8	6.12	4/1/98	PROTOPERIDINIUM SPP.	19.73
WF984	F25	WF9841E8	6.12	4/1/98	THECATE DINOFLAGELLATE SPP.	NA
WF984	F25	WF9841EA	2.81	4/1/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	2814.78
WF984	F25	WF9841EA	2.81	4/1/98	CERATIUM TRIPOS	23348.54
WF984	F25	WF9841EA	2.81	4/1/98	CHAETOCEROS DEBILIS	6448.04
WF984	F25	WF9841EA	2.81	4/1/98	CHAETOCEROS SP. GROUP 1 DIAM <10 MICRONS	3826.33
WF984	F25	WF9841EA	2.81	4/1/98	CHAETOCEROS SP. GROUP 2 DIAM 10-30 MICRONS	5222.79
WF984	F25	WF9841EA	2.81	4/1/98	CHOANOFLAGELLATE SPP.	313.93
WF984	F25	WF9841EA	2.81	4/1/98	COSCINODISCUS RADIATUS	7398.33
WF984	F25	WF9841EA	2.81	4/1/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	8068.83
WF984	F25	WF9841EA	2.81	4/1/98	DICTYOCHA SPECULUM	NA
WF984	F25	WF9841EA	2.81	4/1/98	EUTREPTIA/EUTREPTIELLA SPP.	NA
WF984	F25	WF9841EA	2.81	4/1/98	GRAMMATOPHORA MARINA	297.26
WF984	F25	WF9841EA	2.81	4/1/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	41308.74
WF984	F25	WF9841EA	2.81	4/1/98	GYRODINIUM SPIRALE	53713.10
WF984	F25	WF9841EA	2.81	4/1/98	NAVICULOID DIATOMS	NA
WF984	F25	WF9841EA	2.81	4/1/98	PARALIA SULCATA	6137.19
WF984	F25	WF9841EA	2.81	4/1/98	PENNATE DIATOM SP. GROUP 2 10-30 MICRONS LENGTH	403.94
WF984	F25	WF9841EA	2.81	4/1/98	PSEUDONITZSCHIA PUNGENS	309.45
WF984	F25	WF9841EA	2.81	4/1/98	PYRAMIMONAS SPP.	612.16
WF984	F25	WF9841EA	2.81	4/1/98	RHIZOLENIA DELICATULA	10448.51
WF984	F25	WF9841EA	2.81	4/1/98	SKELETONEMA COSTATUM GREV+CLEVE	13602.34
WF984	F25	WF9841EA	2.81	4/1/98	THALASSIONEMA NITZSCHIOIDES	128.49
WF984	F25	WF9841EA	2.81	4/1/98	THALASSIOSIRA NORDENSKIOLDII CLEVE	1071.19
WF984	F25	WF9841EA	2.81	4/1/98	THALASSIOSIRA ROTULA	88303.51
WF984	F25	WF9841EA	2.81	4/1/98	THALASSIOSIRA SP. GROUP 3 10-20 MICRONS LENGTH	6203.76

Survey	Sta.	Sample Number	Depth (m)	Sampling Date	Plankton	Estimated Carbon Equivalence (ng Carbon/L)
WF984	F25	WF9841EA	2.81	4/1/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	127199.04
WF984	F25	WF9841EA	2.81	4/1/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	25219.42
WF984	F25	WF9841EA	2.81	4/1/98	ATHECATE DINOFLAGELLATE	NA
WF984	F25	WF9841EA	2.81	4/1/98	CERATIUM FUSUS	29.59
WF984	F25	WF9841EA	2.81	4/1/98	CERATIUM LINEATUM	16.73
WF984	F25	WF9841EA	2.81	4/1/98	CERATIUM LONGIPES	2114.36
WF984	F25	WF9841EA	2.81	4/1/98	CERATIUM SPP.	168.90
WF984	F25	WF9841EA	2.81	4/1/98	CERATIUM TRIPOS	161.10
WF984	F25	WF9841EA	2.81	4/1/98	DINOPHYSIS ACUMINATA	4.72
WF984	F25	WF9841EA	2.81	4/1/98	DINOPHYSIS NORVEGICA	NA
WF984	F25	WF9841EA	2.81	4/1/98	GYRODINIUM SP. GROUP 3 41-70UM W 51-70UM L	10.73
WF984	F25	WF9841EA	2.81	4/1/98	MESODINIUM RUBRUM	NA
WF984	F25	WF9841EA	2.81	4/1/98	PROTOPERIDINIUM DEPRESSUM	180.95
WF984	F25	WF9841EA	2.81	4/1/98	PROTOPERIDINIUM PALLIDUM	60.07
WF984	F25	WF9841EA	2.81	4/1/98	PROTOPERIDINIUM SPP.	15.79
WF984	F24	WF9841F8	5.87	4/2/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	2809.77
WF984	F24	WF9841F8	5.87	4/2/98	CERATIUM FUSUS	31261.39
WF984	F24	WF9841F8	5.87	4/2/98	CERATIUM LONGIPES	311730.89
WF984	F24	WF9841F8	5.87	4/2/98	CHAETOCEROS BOREALIS	9932.45
WF984	F24	WF9841F8	5.87	4/2/98	CHAETOCEROS SEPTENTRIONALIS	NA
WF984	F24	WF9841F8	5.87	4/2/98	CHAETOCEROS SP. GROUP 1 DIAM <10 MICRONS	510.67
WF984	F24	WF9841F8	5.87	4/2/98	CHAETOCEROS SP. GROUP 2 DIAM 10-30 MICRONS	43011.22
WF984	F24	WF9841F8	5.87	4/2/98	CHAETOCEROS TORTISSIMUS (EHRENBERG 1844) Diatom species	NA
WF984	F24	WF9841F8	5.87	4/2/98	CHOANOFAGELLATE SPP.	430.89
WF984	F24	WF9841F8	5.87	4/2/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	5195.62
WF984	F24	WF9841F8	5.87	4/2/98	CYLINDROTHECA CLOSTERIUM	1616.10
WF984	F24	WF9841F8	5.87	4/2/98	DICTYOCHA SPECULUM	NA
WF984	F24	WF9841F8	5.87	4/2/98	EUTREPTIA/EUTREPTIELLA SPP.	NA
WF984	F24	WF9841F8	5.87	4/2/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	17009.48
WF984	F24	WF9841F8	5.87	4/2/98	GYMNODINIUM SP. GROUP 2 21-40UM W 21-50UM L	6979.60
WF984	F24	WF9841F8	5.87	4/2/98	GYRODINIUM SPIRALE	30718.27
WF984	F24	WF9841F8	5.87	4/2/98	PENNATE DIATOM SP. GROUP 2 10-30 MICRONS LENGTH	404.27
WF984	F24	WF9841F8	5.87	4/2/98	PSEUDONITZSCHIA PUNGENS	619.41
WF984	F24	WF9841F8	5.87	4/2/98	SKELETONEMA COSTATUM GREV+CLEVE	8048.52
WF984	F24	WF9841F8	5.87	4/2/98	THALASSIONEMA NITZSCHIOIDES	220.44
WF984	F24	WF9841F8	5.87	4/2/98	THALASSIOSIRA ROTULA	81577.53
WF984	F24	WF9841F8	5.87	4/2/98	THALASSIOSIRA SP. GROUP 3 10-20 MICRONS LENGTH	1680.59
WF984	F24	WF9841F8	5.87	4/2/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	79817.44
WF984	F24	WF9841F8	5.87	4/2/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	7988.05
WF984	F24	WF9841F8	5.87	4/2/98	AMYLAX TRIACANTHA	2.12
WF984	F24	WF9841F8	5.87	4/2/98	ATHECATE DINOFLAGELLATE	NA
WF984	F24	WF9841F8	5.87	4/2/98	CERATIUM FUSUS	214.50
WF984	F24	WF9841F8	5.87	4/2/98	CERATIUM LINEATUM	22.18
WF984	F24	WF9841F8	5.87	4/2/98	CERATIUM LONGIPES	10209.88
WF984	F24	WF9841F8	5.87	4/2/98	CERATIUM SPP.	572.71
WF984	F24	WF9841F8	5.87	4/2/98	CERATIUM TRIPOS	527.66
WF984	F24	WF9841F8	5.87	4/2/98	DINOPHYSIS ACUMINATA	9.32
WF984	F24	WF9841F8	5.87	4/2/98	DISTEPHANUS SPECULUM	6.62
WF984	F24	WF9841F8	5.87	4/2/98	MESODINIUM RUBRUM	NA
WF984	F24	WF9841F8	5.87	4/2/98	PROTOPERIDINIUM BREVIPES	8.24

Survey	Sta.	Sample Number	Depth (m)	Sampling Date	Plankton	Estimated Carbon Equivalence (ng Carbon/L)
WF984	F24	WF9841F8	5.87	4/2/98	PROTOPERIDINIUM SPP.	119.03
WF984	F24	WF9841F8	5.87	4/2/98	THECATE DINOFLAGELLATE SPP.	NA
WF984	F24	WF9841FA	2.67	4/2/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	3522.24
WF984	F24	WF9841FA	2.67	4/2/98	CERATIUM FUSUS	32154.57
WF984	F24	WF9841FA	2.67	4/2/98	CERATIUM LONGIPES	137435.86
WF984	F24	WF9841FA	2.67	4/2/98	CHAETOCEROS BOREALIS	2189.51
WF984	F24	WF9841FA	2.67	4/2/98	CHAETOCEROS COMPRESSUS	6569.06
WF984	F24	WF9841FA	2.67	4/2/98	CHAETOCEROS SEPTENTRIONALIS	NA
WF984	F24	WF9841FA	2.67	4/2/98	CHAETOCEROS SP. GROUP 2 DIAM 10-30 MICRONS	16592.43
WF984	F24	WF9841FA	2.67	4/2/98	CHOANOFLLAGELLATE SPP.	221.60
WF984	F24	WF9841FA	2.67	4/2/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	6398.81
WF984	F24	WF9841FA	2.67	4/2/98	CYLINDROTHECA CLOSTERIUM	1068.76
WF984	F24	WF9841FA	2.67	4/2/98	DICTYOCHA SPECULUM	NA
WF984	F24	WF9841FA	2.67	4/2/98	EUTREPTIA/EUTREPTIELLA SPP.	NA
WF984	F24	WF9841FA	2.67	4/2/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	33824.57
WF984	F24	WF9841FA	2.67	4/2/98	GYRODINIUM SPIRALE	60935.02
WF984	F24	WF9841FA	2.67	4/2/98	HETEROCAPSA ROTUNDATA	229.53
WF984	F24	WF9841FA	2.67	4/2/98	NAVICULOID DIATOMS	NA
WF984	F24	WF9841FA	2.67	4/2/98	PENNATE DIATOM SP. GROUP 2 10-30 MICRONS LENGTH	712.73
WF984	F24	WF9841FA	2.67	4/2/98	PSEUDONITZSCHIA PUNGENS	1521.26
WF984	F24	WF9841FA	2.67	4/2/98	RHIZOLENIA SETIGERA	3257.34
WF984	F24	WF9841FA	2.67	4/2/98	SKELETONEMA COSTATUM GREV+CLEVE	9307.72
WF984	F24	WF9841FA	2.67	4/2/98	THALASSIONEMA NITZSCHIOIDES	874.57
WF984	F24	WF9841FA	2.67	4/2/98	THALASSIOSIRA ROTULA	116444.19
WF984	F24	WF9841FA	2.67	4/2/98	THALASSIOSIRA SP. GROUP 3 10-20 MICRONS LENGTH	2716.38
WF984	F24	WF9841FA	2.67	4/2/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	86621.24
WF984	F24	WF9841FA	2.67	4/2/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	19171.33
WF984	F24	WF9841FA	2.67	4/2/98	ATHECATE DINOFLAGELLATE	NA
WF984	F24	WF9841FA	2.67	4/2/98	CERATIUM FUSUS	131.31
WF984	F24	WF9841FA	2.67	4/2/98	CERATIUM LINEATUM	33.95
WF984	F24	WF9841FA	2.67	4/2/98	CERATIUM LONGIPES	12657.84
WF984	F24	WF9841FA	2.67	4/2/98	CERATIUM SPP.	699.68
WF984	F24	WF9841FA	2.67	4/2/98	CERATIUM TRIPOS	1245.00
WF984	F24	WF9841FA	2.67	4/2/98	DINOPHYSIS ACUMINATA	6.71
WF984	F24	WF9841FA	2.67	4/2/98	DISTEPHANUS SPECULUM	12.79
WF984	F24	WF9841FA	2.67	4/2/98	GYRODINIUM SP. GROUP 3 41-70UM W 51-70UM L	6.35
WF984	F24	WF9841FA	2.67	4/2/98	HETEROCAPSA TRIQUETRA	1.12
WF984	F24	WF9841FA	2.67	4/2/98	MESODINIUM RUBRUM	NA
WF984	F24	WF9841FA	2.67	4/2/98	PROTOPERIDINIUM BREVIPES	16.82
WF984	F24	WF9841FA	2.67	4/2/98	PROTOPERIDINIUM DEPRESSUM	642.49
WF984	F24	WF9841FA	2.67	4/2/98	PROTOPERIDINIUM SPP.	14.01
WF984	N16	WF984204	15.92	4/2/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	991.45
WF984	N16	WF984204	15.92	4/2/98	CERATIUM FUSUS	18578.20
WF984	N16	WF984204	15.92	4/2/98	CERATIUM LONGIPES	154403.25
WF984	N16	WF984204	15.92	4/2/98	CERATIUM TRIPOS	11903.18
WF984	N16	WF984204	15.92	4/2/98	CHAETOCEROS COMPRESSUS	2415.29
WF984	N16	WF984204	15.92	4/2/98	CHAETOCEROS SP. GROUP 2 DIAM 10-30 MICRONS	2662.98
WF984	N16	WF984204	15.92	4/2/98	CHOANOFLLAGELLATE SPP.	128.04
WF984	N16	WF984204	15.92	4/2/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	3128.31
WF984	N16	WF984204	15.92	4/2/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	20890.88
WF984	N16	WF984204	15.92	4/2/98	GYMNODINIUM SP. GROUP 2 21-40UM W 21-50UM L	9332.72

Survey	Sta.	Sample Number	Depth (m)	Sampling Date	Plankton	Estimated Carbon Equivalence (ng Carbon/L)
WF984	N16	WF984204	15.92	4/2/98	GYRODINIUM SPIRALE	54758.41
WF984	N16	WF984204	15.92	4/2/98	NAVICULOID DIATOMS	NA
WF984	N16	WF984204	15.92	4/2/98	PENNATE DIATOM SP. GROUP 3 31-60 MICRONS LENGTH	294.42
WF984	N16	WF984204	15.92	4/2/98	PSEUDONITZSCHIA PUNGENS	552.16
WF984	N16	WF984204	15.92	4/2/98	THALASSIONEMA NITZSCHIOIDES	523.95
WF984	N16	WF984204	15.92	4/2/98	THALASSIOSIRA ROTULA	13849.54
WF984	N16	WF984204	15.92	4/2/98	THALASSIOSIRA SP. GROUP 3 10-20 MICRONS LENGTH	416.15
WF984	N16	WF984204	15.92	4/2/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	38156.57
WF984	N16	WF984204	15.92	4/2/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	6329.58
WF984	N16	WF984204	15.92	4/2/98	ATHECATE DINOFLAGELLATE	NA
WF984	N16	WF984204	15.92	4/2/98	CERATIUM FUSUS	205.03
WF984	N16	WF984204	15.92	4/2/98	CERATIUM LINEATUM	44.18
WF984	N16	WF984204	15.92	4/2/98	CERATIUM LONGIPES	10774.36
WF984	N16	WF984204	15.92	4/2/98	CERATIUM SPP.	240.10
WF984	N16	WF984204	15.92	4/2/98	CERATIUM TRIPOS	1325.98
WF984	N16	WF984204	15.92	4/2/98	DINOPHYSIS ACUMINATA	4.99
WF984	N16	WF984204	15.92	4/2/98	DISTEPHANUS SPECULUM	17.44
WF984	N16	WF984204	15.92	4/2/98	GYRODINIUM SP. GROUP 3 41-70UM W 51-70UM L	21.24
WF984	N16	WF984204	15.92	4/2/98	HETEROCAPSA TRIQUETRA	0.62
WF984	N16	WF984204	15.92	4/2/98	MESODINIUM RUBRUM	NA
WF984	N16	WF984204	15.92	4/2/98	PROTOPERIDINIUM DEPRESSUM	318.47
WF984	N16	WF984204	15.92	4/2/98	PROTOPERIDINIUM SPP.	72.93
WF984	N16	WF984206	2.32	4/2/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	1279.45
WF984	N16	WF984206	2.32	4/2/98	CERATIUM LONGIPES	302867.91
WF984	N16	WF984206	2.32	4/2/98	CHAETOCEROS COMPRESSUS	789.61
WF984	N16	WF984206	2.32	4/2/98	CHAETOCEROS SP. GROUP 2 DIAM 10-30 MICRONS	4701.19
WF984	N16	WF984206	2.32	4/2/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	2390.76
WF984	N16	WF984206	2.32	4/2/98	CYLINDROTHECA CLOSTERIUM	1569.93
WF984	N16	WF984206	2.32	4/2/98	DICTYOCHA SPECULUM	NA
WF984	N16	WF984206	2.32	4/2/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	9914.10
WF984	N16	WF984206	2.32	4/2/98	GYMNODINIUM SP. GROUP 2 21-40UM W 21-50UM L	3051.08
WF984	N16	WF984206	2.32	4/2/98	NAVICULOID DIATOMS	NA
WF984	N16	WF984206	2.32	4/2/98	PROTOPERIDINIUM PELLUCIDUM	9275.48
WF984	N16	WF984206	2.32	4/2/98	PSEUDONITZSCHIA PUNGENS	309.45
WF984	N16	WF984206	2.32	4/2/98	RHIZOLENIA FRAGILISSIMA	1022.75
WF984	N16	WF984206	2.32	4/2/98	RHIZOLENIA SETIGERA	2153.46
WF984	N16	WF984206	2.32	4/2/98	SKELETONEMA COSTATUM GREV+CLEVE	58.88
WF984	N16	WF984206	2.32	4/2/98	THALASSIONEMA NITZSCHIOIDES	64.24
WF984	N16	WF984206	2.32	4/2/98	THALASSIOSIRA ROTULA	4528.39
WF984	N16	WF984206	2.32	4/2/98	THALASSIOSIRA SP. GROUP 3 10-20 MICRONS LENGTH	734.66
WF984	N16	WF984206	2.32	4/2/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	42506.48
WF984	N16	WF984206	2.32	4/2/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	9699.78
WF984	N16	WF984206	2.32	4/2/98	CERATIUM FUSUS	118.79
WF984	N16	WF984206	2.32	4/2/98	CERATIUM LINEATUM	55.84
WF984	N16	WF984206	2.32	4/2/98	CERATIUM LONGIPES	10876.14
WF984	N16	WF984206	2.32	4/2/98	CERATIUM TRIPOS	1674.15
WF984	N16	WF984206	2.32	4/2/98	DINOPHYSIS ACUMINATA	4.83
WF984	N16	WF984206	2.32	4/2/98	MESODINIUM RUBRUM	NA
WF984	N16	WF984206	2.32	4/2/98	PROTOPERIDINIUM DEPRESSUM	88.06
WF984	N16	WF984206	2.32	4/2/98	PROTOPERIDINIUM SPP.	34.57
WF984	F13	WF984249	12.10	4/2/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	2032.06

Survey	Sta.	Sample Number	Depth (m)	Sampling Date	Plankton	Estimated Carbon Equivalence (ng Carbon/L)
WF984	F13	WF984249	12.10	4/2/98	CHAETOCEROS SP. GROUP 1 DIAM <10 MICRONS	1519.28
WF984	F13	WF984249	12.10	4/2/98	CHAETOCEROS SP. GROUP 2 DIAM 10-30 MICRONS	11060.03
WF984	F13	WF984249	12.10	4/2/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	4324.47
WF984	F13	WF984249	12.10	4/2/98	CYLINDROTHECA CLOSTERIUM	498.75
WF984	F13	WF984249	12.10	4/2/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	7872.96
WF984	F13	WF984249	12.10	4/2/98	GYMNODINIUM SP. GROUP 2 21-40UM W 21-50UM L	3230.56
WF984	F13	WF984249	12.10	4/2/98	PARALIA SULCATA	866.55
WF984	F13	WF984249	12.10	4/2/98	PENNATE DIATOM SP. GROUP 2 10-30 MICRONS LENGTH	213.85
WF984	F13	WF984249	12.10	4/2/98	PSEUDONITZSCHIA PUNGENS	1064.88
WF984	F13	WF984249	12.10	4/2/98	SKELETONEMA COSTATUM GREV+CLEVE	4270.86
WF984	F13	WF984249	12.10	4/2/98	THALASSIONEMA NITZSCHIOIDES	136.04
WF984	F13	WF984249	12.10	4/2/98	THALASSIOSIRA ROTULA	92299.15
WF984	F13	WF984249	12.10	4/2/98	THALASSIOSIRA SP. GROUP 3 10-20 MICRONS LENGTH	2592.90
WF984	F13	WF984249	12.10	4/2/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	62082.33
WF984	F13	WF984249	12.10	4/2/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	1027.04
WF984	F13	WF984249	12.10	4/2/98	CERATIUM FUSUS	60.36
WF984	F13	WF984249	12.10	4/2/98	CERATIUM LINEATUM	9.75
WF984	F13	WF984249	12.10	4/2/98	CERATIUM LONGIPES	3034.35
WF984	F13	WF984249	12.10	4/2/98	CERATIUM SPP.	212.04
WF984	F13	WF984249	12.10	4/2/98	CERATIUM TRIPOS	347.98
WF984	F13	WF984249	12.10	4/2/98	DINOPHYSIS ACUMINATA	4.34
WF984	F13	WF984249	12.10	4/2/98	DISTEPHANUS SPECULUM	3.06
WF984	F13	WF984249	12.10	4/2/98	GYMNODINIUM SPP. (30UM)	NA
WF984	F13	WF984249	12.10	4/2/98	GYRODINIUM SP. GROUP 3 41-70UM W 51-70UM L	5.47
WF984	F13	WF984249	12.10	4/2/98	MESODINIUM RUBRUM	NA
WF984	F13	WF984249	12.10	4/2/98	PROTOPERIDINIUM PYRIFORME	NA
WF984	F13	WF984249	12.10	4/2/98	PROTOPERIDINIUM SPP.	24.15
WF984	F13	WF98424B	2.60	4/2/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	913.17
WF984	F13	WF98424B	2.60	4/2/98	CERATIUM LONGIPES	92641.95
WF984	F13	WF98424B	2.60	4/2/98	CHAETOCEROS SEPTENTRIONALIS	NA
WF984	F13	WF98424B	2.60	4/2/98	CHAETOCEROS SP. GROUP 1 DIAM <10 MICRONS	975.34
WF984	F13	WF98424B	2.60	4/2/98	CHAETOCEROS SP. GROUP 2 DIAM 10-30 MICRONS	26626.00
WF984	F13	WF98424B	2.60	4/2/98	CHAETOCEROS SUBTILIS	701.16
WF984	F13	WF98424B	2.60	4/2/98	CHOANOFLLAGELLATE SPP.	160.04
WF984	F13	WF98424B	2.60	4/2/98	COCCONEIS SCUTELLUM EHRENB.	1210.58
WF984	F13	WF98424B	2.60	4/2/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	3250.19
WF984	F13	WF98424B	2.60	4/2/98	DICTYOCHA SPECULUM	NA
WF984	F13	WF98424B	2.60	4/2/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	10108.49
WF984	F13	WF98424B	2.60	4/2/98	NAVICULOID DIATOMS	NA
WF984	F13	WF98424B	2.60	4/2/98	PSEUDONITZSCHIA DELICATISSIMA	65.75
WF984	F13	WF98424B	2.60	4/2/98	PSEUDONITZSCHIA PUNGENS	788.80
WF984	F13	WF98424B	2.60	4/2/98	SKELETONEMA COSTATUM GREV+CLEVE	12247.99
WF984	F13	WF98424B	2.60	4/2/98	THALASSIONEMA NITZSCHIOIDES	262.01
WF984	F13	WF98424B	2.60	4/2/98	THALASSIOSIRA NORDENSKIOLDII CLEVE	449.73
WF984	F13	WF98424B	2.60	4/2/98	THALASSIOSIRA ROTULA	178889.85
WF984	F13	WF98424B	2.60	4/2/98	THALASSIOSIRA SP. GROUP 3 10-20 MICRONS LENGTH	4993.02
WF984	F13	WF98424B	2.60	4/2/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	67133.35
WF984	F13	WF98424B	2.60	4/2/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	5933.98
WF984	F13	WF98424B	2.60	4/2/98	ATHECATE DINOFLAGELLATE	NA
WF984	F13	WF98424B	2.60	4/2/98	CERATIUM FUSUS	30.18

Survey	Sta.	Sample Number	Depth (m)	Sampling Date	Plankton	Estimated Carbon Equivalence (ng Carbon/L)
WF984	F13	WF98424B	2.60	4/2/98	CERATIUM LINEATUM	26.82
WF984	F13	WF98424B	2.60	4/2/98	CERATIUM LONGIPES	3260.04
WF984	F13	WF98424B	2.60	4/2/98	CERATIUM SPP.	145.78
WF984	F13	WF98424B	2.60	4/2/98	CERATIUM TRIPOS	347.98
WF984	F13	WF98424B	2.60	4/2/98	DINOPHYSIS ACUMINATA	2.41
WF984	F13	WF98424B	2.60	4/2/98	DISTEPHANUS SPECULUM	5.51
WF984	F13	WF98424B	2.60	4/2/98	MESODINIUM RUBRUM	NA
WF984	F13	WF98424B	2.60	4/2/98	PROTOPERIDIUM SPP.	12.08
WF984	F06	WF98426B	15.07	4/2/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	652.27
WF984	F06	WF98426B	15.07	4/2/98	CERATIUM LONGIPES	92641.95
WF984	F06	WF98426B	15.07	4/2/98	CERATIUM TRIPOS	11903.18
WF984	F06	WF98426B	15.07	4/2/98	CHAETOCEROS BOREALIS	1475.89
WF984	F06	WF98426B	15.07	4/2/98	CHAETOCEROS COMPRESSUS	2012.74
WF984	F06	WF98426B	15.07	4/2/98	CHAETOCEROS SP. GROUP 2 DIAM 10-30 MICRONS	10650.40
WF984	F06	WF98426B	15.07	4/2/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	880.26
WF984	F06	WF98426B	15.07	4/2/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	15162.74
WF984	F06	WF98426B	15.07	4/2/98	GYMNODINIUM SP. GROUP 2 21-40UM W 21-50UM L	3110.91
WF984	F06	WF98426B	15.07	4/2/98	NAVICULOID DIATOMS	NA
WF984	F06	WF98426B	15.07	4/2/98	PSEUDONITZSCHIA PUNGENS	1893.12
WF984	F06	WF98426B	15.07	4/2/98	RHIZOLENIA DELICATULA	710.33
WF984	F06	WF98426B	15.07	4/2/98	THALASSIONEMA NITZSCHIOIDES	524.02
WF984	F06	WF98426B	15.07	4/2/98	THALASSIOSIRA ROTULA	20777.30
WF984	F06	WF98426B	15.07	4/2/98	THALASSIOSIRA SP. GROUP 3 10-20 MICRONS LENGTH	554.78
WF984	F06	WF98426B	15.07	4/2/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	37024.07
WF984	F06	WF98426B	15.07	4/2/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	2637.33
WF984	F06	WF98426B	15.07	4/2/98	ATHECATE DINOFLAGELLATE	NA
WF984	F06	WF98426B	15.07	4/2/98	CERATIUM FUSUS	51.48
WF984	F06	WF98426B	15.07	4/2/98	CERATIUM LINEATUM	19.41
WF984	F06	WF98426B	15.07	4/2/98	CERATIUM LONGIPES	6302.75
WF984	F06	WF98426B	15.07	4/2/98	CERATIUM TRIPOS	1648.94
WF984	F06	WF98426B	15.07	4/2/98	DINOPHYSIS ACUMINATA	2.19
WF984	F06	WF98426B	15.07	4/2/98	DISTEPHANUS SPECULUM	20.90
WF984	F06	WF98426B	15.07	4/2/98	GYRODINIUM SP. GROUP 3 41-70UM W 51-70UM L	6.22
WF984	F06	WF98426B	15.07	4/2/98	MESODINIUM RUBRUM	NA
WF984	F06	WF98426B	15.07	4/2/98	PROTOPERIDIUM DEPRESSUM	419.80
WF984	F06	WF98426B	15.07	4/2/98	PROTOPERIDIUM SPP.	54.94
WF984	F06	WF98426D	2.24	4/2/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	1595.55
WF984	F06	WF98426D	2.24	4/2/98	CERATIUM FUSUS	4734.55
WF984	F06	WF98426D	2.24	4/2/98	CERATIUM LONGIPES	125898.03
WF984	F06	WF98426D	2.24	4/2/98	CHAETOCEROS BOREALIS	1504.27
WF984	F06	WF98426D	2.24	4/2/98	CHAETOCEROS COMPRESSUS	5469.74
WF984	F06	WF98426D	2.24	4/2/98	CHAETOCEROS SP. GROUP 2 DIAM 10-30 MICRONS	9046.01
WF984	F06	WF98426D	2.24	4/2/98	CHOANOFAGELLATE SPP.	217.50
WF984	F06	WF98426D	2.24	4/2/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	2622.55
WF984	F06	WF98426D	2.24	4/2/98	CYLINDROTHECA CLOSTERIUM	815.75
WF984	F06	WF98426D	2.24	4/2/98	DICTYOCHA SPECULUM	NA
WF984	F06	WF98426D	2.24	4/2/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	18888.62
WF984	F06	WF98426D	2.24	4/2/98	GYMNODINIUM SP. GROUP 2 21-40UM W 21-50UM L	3170.73
WF984	F06	WF98426D	2.24	4/2/98	NAVICULOID DIATOMS	NA
WF984	F06	WF98426D	2.24	4/2/98	PENNATE DIATOM SP. GROUP 2 10-30 MICRONS LENGTH	349.77
WF984	F06	WF98426D	2.24	4/2/98	PSEUDONITZSCHIA PUNGENS	964.76
WF984	F06	WF98426D	2.24	4/2/98	RHIZOLENIA SETIGERA	2237.91

Survey	Sta.	Sample Number	Depth (m)	Sampling Date	Plankton	Estimated Carbon Equivalence (ng Carbon/L)
WF984	F06	WF98426D	2.24	4/2/98	SKELETONEMA COSTATUM GREV+CLEVE	1315.67
WF984	F06	WF98426D	2.24	4/2/98	THALASSIONEMA NITZSCHIOIDES	534.10
WF984	F06	WF98426D	2.24	4/2/98	THALASSIOSIRA NORDENSKIOLDII CLEVE	65.48
WF984	F06	WF98426D	2.24	4/2/98	THALASSIOSIRA ROTULA	39210.76
WF984	F06	WF98426D	2.24	4/2/98	THALASSIOSIRA SP. GROUP 3 10-20 MICRONS LENGTH	1102.78
WF984	F06	WF98426D	2.24	4/2/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	39511.89
WF984	F06	WF98426D	2.24	4/2/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	1344.02
WF984	F06	WF98426D	2.24	4/2/98	ATHECATE DINOFLAGELLATE	NA
WF984	F06	WF98426D	2.24	4/2/98	CERATIUM FUSUS	77.66
WF984	F06	WF98426D	2.24	4/2/98	CERATIUM LINEATUM	47.81
WF984	F06	WF98426D	2.24	4/2/98	CERATIUM LONGIPES	7855.08
WF984	F06	WF98426D	2.24	4/2/98	CERATIUM TRIPOS	1838.47
WF984	F06	WF98426D	2.24	4/2/98	DINOPHYSIS ACUMINATA	3.78
WF984	F06	WF98426D	2.24	4/2/98	DISTEPHANUS SPECULUM	12.91
WF984	F06	WF98426D	2.24	4/2/98	GYRODINIUM SP. GROUP 3 41-70UM W 51-70UM L	21.45
WF984	F06	WF98426D	2.24	4/2/98	MESODINIUM RUBRUM	NA
WF984	F06	WF98426D	2.24	4/2/98	PROTOPERIDIUM DEPRESSUM	120.63
WF984	F06	WF98426D	2.24	4/2/98	PROTOPERIDIUM SPP.	51.31
WN985	N04	WN98500D	20.98	4/30/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	1306.60
WN985	N04	WN98500D	20.98	4/30/98	CHAETOCEROS COMPRESSUS	32203.87
WN985	N04	WN98500D	20.98	4/30/98	CHAETOCEROS DEBILIS	14246.75
WN985	N04	WN98500D	20.98	4/30/98	CHAETOCEROS SEPTENTRIONALIS	NA
WN985	N04	WN98500D	20.98	4/30/98	CHAETOCEROS SOCIALIS	101282.85
WN985	N04	WN98500D	20.98	4/30/98	CHAETOCEROS SP. GROUP 2 DIAM 10-30 MICRONS	62136.27
WN985	N04	WN98500D	20.98	4/30/98	CHAETOCEROS SPP.(<10UM)	16932.70
WN985	N04	WN98500D	20.98	4/30/98	CHOANOFAGELLATE SPP.	1282.39
WN985	N04	WN98500D	20.98	4/30/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	3458.81
WN985	N04	WN98500D	20.98	4/30/98	CYLINDROTHECA CLOSTERIUM	3201.88
WN985	N04	WN98500D	20.98	4/30/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	20249.06
WN985	N04	WN98500D	20.98	4/30/98	GYRODINIUM SPIRALE	45638.58
WN985	N04	WN98500D	20.98	4/30/98	HETEROCAPSA TRIQUETRA	1978.07
WN985	N04	WN98500D	20.98	4/30/98	PROROCENTRUM MINIMUM	14524.53
WN985	N04	WN98500D	20.98	4/30/98	PROTOPERIDIUM DEPRESSUM	505066.30
WN985	N04	WN98500D	20.98	4/30/98	PSEUDONITZSCHIA DELICATISSIMA	8328.87
WN985	N04	WN98500D	20.98	4/30/98	PSEUDONITZSCHIA PUNGENS	2103.47
WN985	N04	WN98500D	20.98	4/30/98	RHIZOLENIA FRAGILISSIMA	1738.01
WN985	N04	WN98500D	20.98	4/30/98	SKELETONEMA COSTATUM GREV+CLEVE	9906.47
WN985	N04	WN98500D	20.98	4/30/98	THALASSIONEMA NITZSCHIOIDES	1091.72
WN985	N04	WN98500D	20.98	4/30/98	THALASSIOSIRA ROTULA	19238.24
WN985	N04	WN98500D	20.98	4/30/98	THALASSIOSIRA SP. GROUP 1 DIAM <20 MICRONS	832.29
WN985	N04	WN98500D	20.98	4/30/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	357303.77
WN985	N04	WN98500D	20.98	4/30/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	11886.79
WN985	N04	WN98500D	20.98	4/30/98	ALEXANDRIUM TAMARENSE	0.51
WN985	N04	WN98500D	20.98	4/30/98	ATHECATE DINOFLAGELLATE	NA
WN985	N04	WN98500D	20.98	4/30/98	CERATIUM FURCA	NA
WN985	N04	WN98500D	20.98	4/30/98	CERATIUM FUSUS	14.79
WN985	N04	WN98500D	20.98	4/30/98	CERATIUM LONGIPES	2237.28
WN985	N04	WN98500D	20.98	4/30/98	CERATIUM SPP.	77.96
WN985	N04	WN98500D	20.98	4/30/98	CERATIUM TRIPOS	132.67
WN985	N04	WN98500D	20.98	4/30/98	DINOPHYSIS ACUMINATA	1.89
WN985	N04	WN98500D	20.98	4/30/98	DINOPHYSIS NORVEGICA	NA

Appendix K

Survey	Sta.	Sample Number	Depth (m)	Sampling Date	Plankton	Estimated Carbon Equivalence (ng Carbon/L)
WN985	N04	WN98500D	20.98	4/30/98	DISTEPHANUS SPECULUM	3.00
WN985	N04	WN98500D	20.98	4/30/98	GYMNODINIUM SPP. (30UM)	NA
WN985	N04	WN98500D	20.98	4/30/98	GYRODINIUM SP. GROUP 2 21-40UM W 21-50UM L	17.34
WN985	N04	WN98500D	20.98	4/30/98	MESODINIUM RUBRUM	NA
WN985	N04	WN98500D	20.98	4/30/98	PROTOPERIDINIUM BREVIPIES	7.10
WN985	N04	WN98500D	20.98	4/30/98	PROTOPERIDINIUM DEPRESSUM	1688.85
WN985	N04	WN98500D	20.98	4/30/98	PROTOPERIDINIUM GRANII	73.76
WN985	N04	WN98500D	20.98	4/30/98	PROTOPERIDINIUM PALLIDUM	80.10
WN985	N04	WN98500D	20.98	4/30/98	PROTOPERIDINIUM SPP.	205.22
WN985	N04	WN98500D	20.98	4/30/98	THECATE DINOFLAGELLATE SPP.	NA
WN985	N04	WN98500F	1.60	4/30/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	985.82
WN985	N04	WN98500F	1.60	4/30/98	CERATIUM LINEATUM	20624.05
WN985	N04	WN98500F	1.60	4/30/98	CERATIUM LONGIPES	105904.79
WN985	N04	WN98500F	1.60	4/30/98	CERATIUM TRIPOS	40821.80
WN985	N04	WN98500F	1.60	4/30/98	CHAETOCEROS COMPRESSUS	46938.17
WN985	N04	WN98500F	1.60	4/30/98	CHAETOCEROS DECIPIENS	16064.88
WN985	N04	WN98500F	1.60	4/30/98	CHAETOCEROS SEPTENTRIONALIS	NA
WN985	N04	WN98500F	1.60	4/30/98	CHAETOCEROS SOCIALIS	32906.67
WN985	N04	WN98500F	1.60	4/30/98	CHAETOCEROS SP. GROUP 2 DIAM 10-30 MICRONS	87800.05
WN985	N04	WN98500F	1.60	4/30/98	CHOANOFLAGELLATE SPP.	219.90
WN985	N04	WN98500F	1.60	4/30/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	5302.98
WN985	N04	WN98500F	1.60	4/30/98	CRYPTOMONAS SP. GROUP 2 LENGTH >10 MICRONS	448.10
WN985	N04	WN98500F	1.60	4/30/98	DINOPHYSIS NORVEGICA	NA
WN985	N04	WN98500F	1.60	4/30/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	13888.78
WN985	N04	WN98500F	1.60	4/30/98	HETEROCAPSA ROTUNDATA	113.72
WN985	N04	WN98500F	1.60	4/30/98	LEPTOCYLINDRUS MINIMUS	281.07
WN985	N04	WN98500F	1.60	4/30/98	PROROCENTRUM MINIMUM	829.00
WN985	N04	WN98500F	1.60	4/30/98	PROTOPERIDINIUM DEPRESSUM	259817.76
WN985	N04	WN98500F	1.60	4/30/98	PSEUDONITZSCHIA DELICATISSIMA	1465.77
WN985	N04	WN98500F	1.60	4/30/98	PYRAMIMONAS SP. GROUP 1 10-20 MICRONS LENGTH	NA
WN985	N04	WN98500F	1.60	4/30/98	RHIZOLENIA FRAGILISSIMA	3576.28
WN985	N04	WN98500F	1.60	4/30/98	SKELETONEMA COSTATUM GREV+CLEVE	19251.99
WN985	N04	WN98500F	1.60	4/30/98	THALASSIONEMA NITZSCHIOIDES	224.64
WN985	N04	WN98500F	1.60	4/30/98	THALASSIOSIRA SP. GROUP 1 DIAM <20 MICRONS	570.87
WN985	N04	WN98500F	1.60	4/30/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	86628.63
WN985	N04	WN98500F	1.60	4/30/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	12229.68
WN985	N04	WN98500F	1.60	4/30/98	ATHECATE DINOFLAGELLATE	NA
WN985	N04	WN98500F	1.60	4/30/98	CERATIUM FURCA	NA
WN985	N04	WN98500F	1.60	4/30/98	CERATIUM FUSUS	159.77
WN985	N04	WN98500F	1.60	4/30/98	CERATIUM LONGIPES	12479.61
WN985	N04	WN98500F	1.60	4/30/98	CERATIUM SPP.	1044.60
WN985	N04	WN98500F	1.60	4/30/98	CERATIUM TRIPOS	2683.79
WN985	N04	WN98500F	1.60	4/30/98	DINOPHYSIS ACUMINATA	6.80
WN985	N04	WN98500F	1.60	4/30/98	DINOPHYSIS NORVEGICA	NA
WN985	N04	WN98500F	1.60	4/30/98	DISTEPHANUS SPECULUM	12.25
WN985	N04	WN98500F	1.60	4/30/98	GYRODINIUM SP. GROUP 2 21-40UM W 21-50UM L	17.83
WN985	N04	WN98500F	1.60	4/30/98	PROTOPERIDINIUM BREVIPIES	2.13
WN985	N04	WN98500F	1.60	4/30/98	PROTOPERIDINIUM DEPRESSUM	868.55
WN985	N04	WN98500F	1.60	4/30/98	PROTOPERIDINIUM GRANII	19.67
WN985	N04	WN98500F	1.60	4/30/98	PROTOPERIDINIUM PALLIDUM	240.29
WN985	N04	WN98500F	1.60	4/30/98	PROTOPERIDINIUM SPP.	94.72
WN985	N18	WN985032	9.07	4/30/98	CALYCOMONAS WULFFII	78.93

Survey	Sta.	Sample Number	Depth (m)	Sampling Date	Plankton	Estimated Carbon Equivalence (ng Carbon/L)
WN985	N18	WN985032	9.07	4/30/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	696.86
WN985	N18	WN985032	9.07	4/30/98	CERATIUM FUSUS	18580.87
WN985	N18	WN985032	9.07	4/30/98	CERATIUM LONGIPES	308806.49
WN985	N18	WN985032	9.07	4/30/98	CERATIUM TRIPOS	23806.36
WN985	N18	WN985032	9.07	4/30/98	CHAETOCEROS COMPRESSUS	20932.51
WN985	N18	WN985032	9.07	4/30/98	CHAETOCEROS DEBILIS	13169.81
WN985	N18	WN985032	9.07	4/30/98	CHAETOCEROS DECIPIENS	7016.39
WN985	N18	WN985032	9.07	4/30/98	CHAETOCEROS SEPTENTRIONALIS	NA
WN985	N18	WN985032	9.07	4/30/98	CHAETOCEROS SOCIALIS	46976.58
WN985	N18	WN985032	9.07	4/30/98	CHAETOCEROS SP. GROUP 2 DIAM 10-30 MICRONS	39113.42
WN985	N18	WN985032	9.07	4/30/98	CHOANOFLLAGELLATE SPP.	427.46
WN985	N18	WN985032	9.07	4/30/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	5289.94
WN985	N18	WN985032	9.07	4/30/98	CRYPTOMONAS SP. GROUP 2 LENGTH >10 MICRONS	871.07
WN985	N18	WN985032	9.07	4/30/98	DINOPHYSIS OVUM	8006.19
WN985	N18	WN985032	9.07	4/30/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	14624.32
WN985	N18	WN985032	9.07	4/30/98	GYRODINIUM SPIRALE	54766.29
WN985	N18	WN985032	9.07	4/30/98	HETEROCAPSA ROTUNDATA	442.77
WN985	N18	WN985032	9.07	4/30/98	HETEROCAPSA TRIQUETRA	3560.53
WN985	N18	WN985032	9.07	4/30/98	PENNATE DIATOM SP. GROUP 3 31-60 MICRONS LENGTH	294.42
WN985	N18	WN985032	9.07	4/30/98	PROTOPERIDINIUM BIPES	1637.54
WN985	N18	WN985032	9.07	4/30/98	PSEUDONITZSCHIA DELICATISSIMA	438.99
WN985	N18	WN985032	9.07	4/30/98	PYRAMIMONAS SP. GROUP 1 10-20 MICRONS LENGTH	NA
WN985	N18	WN985032	9.07	4/30/98	RHIZOLENIA FRAGILISSIMA	8354.47
WN985	N18	WN985032	9.07	4/30/98	SCENESDESMUS QUADRICAUDA	36.99
WN985	N18	WN985032	9.07	4/30/98	SKELETONEMA COSTATUM GREV+CLEVE	6484.23
WN985	N18	WN985032	9.07	4/30/98	THALASSIONEMA NITZSCHIOIDES	393.02
WN985	N18	WN985032	9.07	4/30/98	THALASSIOSIRA SP. GROUP 1 DIAM <20 MICRONS	166.46
WN985	N18	WN985032	9.07	4/30/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	68712.26
WN985	N18	WN985032	9.07	4/30/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	2641.51
WN985	N18	WN985032	9.07	4/30/98	ATHECATE DINOFLAGELLATE	NA
WN985	N18	WN985032	9.07	4/30/98	CERATIUM FURCA	NA
WN985	N18	WN985032	9.07	4/30/98	CERATIUM FUSUS	25.89
WN985	N18	WN985032	9.07	4/30/98	CERATIUM LONGIPES	7941.12
WN985	N18	WN985032	9.07	4/30/98	CERATIUM SPP.	597.66
WN985	N18	WN985032	9.07	4/30/98	DINOPHYSIS ACUMINATA	62.36
WN985	N18	WN985032	9.07	4/30/98	DINOPHYSIS NORVEGICA	NA
WN985	N18	WN985032	9.07	4/30/98	DISTEPHANUS SPECULUM	11.41
WN985	N18	WN985032	9.07	4/30/98	GYMNODINIUM SP. GROUP 2 21-40UM W 21-50UM L	2.48
WN985	N18	WN985032	9.07	4/30/98	MESODINIUM RUBRUM	NA
WN985	N18	WN985032	9.07	4/30/98	PROTOPERIDINIUM BREVIPIES	39.07
WN985	N18	WN985032	9.07	4/30/98	PROTOPERIDINIUM DEPRESSUM	723.79
WN985	N18	WN985032	9.07	4/30/98	PROTOPERIDINIUM PYRIFORME	NA
WN985	N18	WN985032	9.07	4/30/98	PROTOPERIDINIUM SPP.	599.88
WN985	N18	WN985032	9.07	4/30/98	THECATE DINOFLAGELLATE SPP.	NA
WN985	N18	WN985034	1.90	4/30/98	AMPHIDIUM SPP.	3345.94
WN985	N18	WN985034	1.90	4/30/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	1356.86
WN985	N18	WN985034	1.90	4/30/98	CERATIUM LINEATUM	6236.05
WN985	N18	WN985034	1.90	4/30/98	CERATIUM LONGIPES	96205.10
WN985	N18	WN985034	1.90	4/30/98	CHAETOCEROS COMPRESSUS	30098.23
WN985	N18	WN985034	1.90	4/30/98	CHAETOCEROS DECIPIENS	7286.25
WN985	N18	WN985034	1.90	4/30/98	CHAETOCEROS SEPTENTRIONALIS	NA

Survey	Sta.	Sample Number	Depth (m)	Sampling Date	Plankton	Estimated Carbon Equivalence (ng Carbon/L)
WN985	N18	WN985034	1.90	4/30/98	CHAETOCEROS SOCIALIS	53142.74
WN985	N18	WN985034	1.90	4/30/98	CHAETOCEROS SP. GROUP 2 DIAM 10-30 MICRONS	38715.68
WN985	N18	WN985034	1.90	4/30/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	10352.94
WN985	N18	WN985034	1.90	4/30/98	CRYPTOMONAS SP. GROUP 2 LENGTH >10 MICRONS	6105.86
WN985	N18	WN985034	1.90	4/30/98	DINOPHYSIS OVUM	8314.12
WN985	N18	WN985034	1.90	4/30/98	EUTREPTIA/EUTREPTIELLA SPP.	NA
WN985	N18	WN985034	1.90	4/30/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	21027.87
WN985	N18	WN985034	1.90	4/30/98	GYMNODINIUM SP. GROUP 2 21-40UM W 21-50UM L	64704.32
WN985	N18	WN985034	1.90	4/30/98	GYRODINIUM SPIRALE	113745.38
WN985	N18	WN985034	1.90	4/30/98	HETEROCAPSA ROTUNDATA	1034.54
WN985	N18	WN985034	1.90	4/30/98	HETEROCAPSA TRIQUETRA	6162.45
WN985	N18	WN985034	1.90	4/30/98	PROTOPERIDINIUM BIPES	8514.89
WN985	N18	WN985034	1.90	4/30/98	PROTOPERIDINIUM SP. GROUP 1 10-30W 10-40L	12798.39
WN985	N18	WN985034	1.90	4/30/98	PSEUDONITZSCHIA DELICATISSIMA	819.40
WN985	N18	WN985034	1.90	4/30/98	RHIZOLENIA FRAGILISSIMA	27111.85
WN985	N18	WN985034	1.90	4/30/98	RHIZOLENIA SETIGERA	4560.27
WN985	N18	WN985034	1.90	4/30/98	SKELETONEMA COSTATUM GREV+CLEVE	7170.06
WN985	N18	WN985034	1.90	4/30/98	THALASSIOSIRA ROTULA	12004.19
WN985	N18	WN985034	1.90	4/30/98	THALASSIOSIRA SP. GROUP 1 DIAM <20 MICRONS	864.30
WN985	N18	WN985034	1.90	4/30/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	106692.78
WN985	N18	WN985034	1.90	4/30/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	6171.99
WN985	N18	WN985034	1.90	4/30/98	ALEXANDRIUM TAMARENSE	0.47
WN985	N18	WN985034	1.90	4/30/98	ATHECATE DINOFLAGELLATE	NA
WN985	N18	WN985034	1.90	4/30/98	CERATIUM FURCA	NA
WN985	N18	WN985034	1.90	4/30/98	CERATIUM FUSUS	61.24
WN985	N18	WN985034	1.90	4/30/98	CERATIUM LONGIPES	9296.28
WN985	N18	WN985034	1.90	4/30/98	CERATIUM SPP.	896.49
WN985	N18	WN985034	1.90	4/30/98	CERATIUM TRIPOS	2423.75
WN985	N18	WN985034	1.90	4/30/98	DINOPHYSIS ACUMINATA	19.12
WN985	N18	WN985034	1.90	4/30/98	DINOPHYSIS NORVEGICA	NA
WN985	N18	WN985034	1.90	4/30/98	DISTEPHANUS SPECULUM	9.39
WN985	N18	WN985034	1.90	4/30/98	PROTOPERIDINIUM BREVIPES	9.80
WN985	N18	WN985034	1.90	4/30/98	PROTOPERIDINIUM DEPRESSUM	887.85
WN985	N18	WN985034	1.90	4/30/98	PROTOPERIDINIUM PALLIDUM	55.27
WN985	N18	WN985034	1.90	4/30/98	PROTOPERIDINIUM PYRIFORME	NA
WN985	N18	WN985034	1.90	4/30/98	PROTOPERIDINIUM SPP.	450.23
WN986	N04	WN98600A	14.70	5/18/98	AMPHIDIUM CRASSUM	242.08
WN986	N04	WN98600A	14.70	5/18/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	7186.32
WN986	N04	WN98600A	14.70	5/18/98	CHAETOCEROS COMPRESSUS	2817.43
WN986	N04	WN98600A	14.70	5/18/98	CHAETOCEROS DEBILIS	1314.90
WN986	N04	WN98600A	14.70	5/18/98	CHAETOCEROS SOCIALIS	2098.65
WN986	N04	WN98600A	14.70	5/18/98	CHAETOCEROS SPP. (10-20UM)	NA
WN986	N04	WN98600A	14.70	5/18/98	CHAETOCEROS SPP. (<10UM)	325.63
WN986	N04	WN98600A	14.70	5/18/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	1831.13
WN986	N04	WN98600A	14.70	5/18/98	CRYPTOMONAS SP. GROUP 2 LENGTH >10 MICRONS	979.95
WN986	N04	WN98600A	14.70	5/18/98	CYLINDROTHECA CLOSTERIUM	960.43
WN986	N04	WN98600A	14.70	5/18/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	18561.64
WN986	N04	WN98600A	14.70	5/18/98	GYMNODINIUM SP. GROUP 2 21-40UM W 21-50UM L	6220.92
WN986	N04	WN98600A	14.70	5/18/98	GYRODINIUM SPIRALE	68556.60
WN986	N04	WN98600A	14.70	5/18/98	NAVICULA SP. GROUP 1 LENGTH <20 MICRONS	26.50
WN986	N04	WN98600A	14.70	5/18/98	PROROCENTRUM MINIMUM	1210.38
WN986	N04	WN98600A	14.70	5/18/98	PSEUDONITZSCHIA DELICATISSIMA	493.87

Survey	Sta.	Sample Number	Depth (m)	Sampling Date	Plankton	Estimated Carbon Equivalence (ng Carbon/L)
WN986	N04	WN98600A	14.70	5/18/98	PYRAMIMONAS SP. GROUP 1 10-20 MICRONS LENGTH	NA
WN986	N04	WN98600A	14.70	5/18/98	SKELETONEMA COSTATUM GREV+CLEVE	1500.76
WN986	N04	WN98600A	14.70	5/18/98	THALASSIONEMA NITZSCHIOIDES	983.96
WN986	N04	WN98600A	14.70	5/18/98	THALASSIOSIRA ROTULA	46238.36
WN986	N04	WN98600A	14.70	5/18/98	THALASSIOSIRA SP. GROUP 1 DIAM <20 MICRONS	2917.22
WN986	N04	WN98600A	14.70	5/18/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	83763.52
WN986	N04	WN98600A	14.70	5/18/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	7924.53
WN986	N04	WN98600A	14.70	5/18/98	ATHECATE DINOFLAGELLATE	NA
WN986	N04	WN98600A	14.70	5/18/98	CERATIUM FUSUS	7.40
WN986	N04	WN98600A	14.70	5/18/98	CERATIUM LINEATUM	28.69
WN986	N04	WN98600A	14.70	5/18/98	CERATIUM LONGIPES	663.81
WN986	N04	WN98600A	14.70	5/18/98	CERATIUM SPP.	51.97
WN986	N04	WN98600A	14.70	5/18/98	CERATIUM TRIPOS	208.49
WN986	N04	WN98600A	14.70	5/18/98	DINOPHYSIS ACUMINATA	0.47
WN986	N04	WN98600A	14.70	5/18/98	DINOPHYSIS NORVEGICA	NA
WN986	N04	WN98600A	14.70	5/18/98	DISTEPHANUS SPECULUM	4.80
WN986	N04	WN98600A	14.70	5/18/98	PROTOPERIDINIUM DEPRESSUM	241.26
WN986	N04	WN98600A	14.70	5/18/98	PROTOPERIDINIUM SPP.	71.04
WN986	N04	WN98600A	14.70	5/18/98	THECATE DINOFLAGELLATE SPP.	NA
WN986	N04	WN98600C	1.97	5/18/98	APEDINELLA RADIANS	548.88
WN986	N04	WN98600C	1.97	5/18/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	12385.10
WN986	N04	WN98600C	1.97	5/18/98	CERATIUM LINEATUM	12239.36
WN986	N04	WN98600C	1.97	5/18/98	CERATIUM LONGIPES	62939.95
WN986	N04	WN98600C	1.97	5/18/98	CHAETOCEROS SPP. (10-20UM)	NA
WN986	N04	WN98600C	1.97	5/18/98	CHOANOFLAGELLATE SPP.	130.50
WN986	N04	WN98600C	1.97	5/18/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	2384.78
WN986	N04	WN98600C	1.97	5/18/98	CRYPTOMONAS SP. GROUP 2 LENGTH >10 MICRONS	665.87
WN986	N04	WN98600C	1.97	5/18/98	CYLINDROTHECA CLOSTERIUM	978.90
WN986	N04	WN98600C	1.97	5/18/98	DICTYOCHA SPECULUM	NA
WN986	N04	WN98600C	1.97	5/18/98	DINOPHYSIS NORVEGICA	NA
WN986	N04	WN98600C	1.97	5/18/98	EBRIA TRIPARTITA	3119.92
WN986	N04	WN98600C	1.97	5/18/98	EUTREPTIA/EUTREPTIELLA SPP.	NA
WN986	N04	WN98600C	1.97	5/18/98	GYRODINIUM SP. GROUP 2 21-40UM W 21-50UM L	12681.10
WN986	N04	WN98600C	1.97	5/18/98	GYRODINIUM SPIRALE	139750.00
WN986	N04	WN98600C	1.97	5/18/98	HETEROCAPSA TRIQUETRA	1209.49
WN986	N04	WN98600C	1.97	5/18/98	HETEROSIGMA AKASHIWO	NA
WN986	N04	WN98600C	1.97	5/18/98	PROTOPERIDINIUM SP. GROUP 1 10-30W 10-40L	5016.59
WN986	N04	WN98600C	1.97	5/18/98	PROTOPERIDINIUM SP. GROUP 2 31-75W 41-80L	35397.05
WN986	N04	WN98600C	1.97	5/18/98	SKELETONEMA COSTATUM GREV+CLEVE	11196.85
WN986	N04	WN98600C	1.97	5/18/98	THALASSIONEMA NITZSCHIOIDES	2670.12
WN986	N04	WN98600C	1.97	5/18/98	THALASSIOSIRA ROTULA	23526.46
WN986	N04	WN98600C	1.97	5/18/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	76703.53
WN986	N04	WN98600C	1.97	5/18/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	12115.38
WN986	N04	WN98600C	1.97	5/18/98	ATHECATE DINOFLAGELLATE	NA
WN986	N04	WN98600C	1.97	5/18/98	CERATIUM FUSUS	118.34
WN986	N04	WN98600C	1.97	5/18/98	CERATIUM LINEATUM	879.69
WN986	N04	WN98600C	1.97	5/18/98	CERATIUM LONGIPES	10522.60
WN986	N04	WN98600C	1.97	5/18/98	CERATIUM SPP.	714.59
WN986	N04	WN98600C	1.97	5/18/98	CERATIUM TRIPOS	1459.41
WN986	N04	WN98600C	1.97	5/18/98	DINOPHYSIS NORVEGICA	NA
WN986	N04	WN98600C	1.97	5/18/98	DINOPHYSIS SPP.	6.13

Survey	Sta.	Sample Number	Depth (m)	Sampling Date	Plankton	Estimated Carbon Equivalence (ng Carbon/L)
WN986	N04	WN98600C	1.97	5/18/98	DISTEPHANUS SPECULUM	9.01
WN986	N04	WN98600C	1.97	5/18/98	GYMNODINIUM SPP. (30UM)	NA
WN986	N04	WN98600C	1.97	5/18/98	PROTOPIRIDINIUM DEPRESSUM	663.48
WN986	N04	WN98600C	1.97	5/18/98	PROTOPIRIDINIUM SPP.	39.47
WN986	N04	WN98600C	1.97	5/18/98	THECATE DINOFLAGELLATE SPP.	NA
WN986	N18	WN98603C	11.10	5/18/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	21166.98
WN986	N18	WN98603C	11.10	5/18/98	CERATIUM LONGIPES	77190.51
WN986	N18	WN98603C	11.10	5/18/98	CHAETOCEROS COMPRESSUS	32250.31
WN986	N18	WN98603C	11.10	5/18/98	CHAETOCEROS SOCIALIS	9993.58
WN986	N18	WN98603C	11.10	5/18/98	CHAETOCEROS SPP. (10-20UM)	NA
WN986	N18	WN98603C	11.10	5/18/98	CHAETOCEROS SPP. (<10UM)	3256.29
WN986	N18	WN98603C	11.10	5/18/98	CHOANOFLAGELLATE SPP.	641.19
WN986	N18	WN98603C	11.10	5/18/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	2848.43
WN986	N18	WN98603C	11.10	5/18/98	CRYPTOMONAS SP. GROUP 2 LENGTH >10 MICRONS	2613.21
WN986	N18	WN98603C	11.10	5/18/98	CYLINDROTHECA CLOSTERIUM	2401.06
WN986	N18	WN98603C	11.10	5/18/98	DINOPHYSIS NORVEGICA	NA
WN986	N18	WN98603C	11.10	5/18/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	97870.44
WN986	N18	WN98603C	11.10	5/18/98	GYRODINIUM SP. GROUP 2 21-40UM W 21-50UM L	15552.29
WN986	N18	WN98603C	11.10	5/18/98	NAVICULA SP. GROUP 1 LENGTH <20 MICRONS	662.47
WN986	N18	WN98603C	11.10	5/18/98	PROBOSCIA ALATA	21390.36
WN986	N18	WN98603C	11.10	5/18/98	PSEUDONITZSCHIA DELICATISSIMA	164.36
WN986	N18	WN98603C	11.10	5/18/98	PYRAMIMONAS SP. GROUP 1 10-20 MICRONS LENGTH	NA
WN986	N18	WN98603C	11.10	5/18/98	RHIZOLENIA FRAGILISSIMA	5213.27
WN986	N18	WN98603C	11.10	5/18/98	SKELETONEMA COSTATUM GREV+CLEVE	8854.51
WN986	N18	WN98603C	11.10	5/18/98	THALASSIONEMA NITZSCHIOIDES	2619.74
WN986	N18	WN98603C	11.10	5/18/98	THALASSIOSIRA SP. GROUP 1 DIAM <20 MICRONS	36199.41
WN986	N18	WN98603C	11.10	5/18/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	127608.49
WN986	N18	WN98603C	11.10	5/18/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	43584.91
WN986	N18	WN98603C	11.10	5/18/98	CERATIUM FUSUS	650.90
WN986	N18	WN98603C	11.10	5/18/98	CERATIUM LINEATUM	305.98
WN986	N18	WN98603C	11.10	5/18/98	CERATIUM LONGIPES	18832.51
WN986	N18	WN98603C	11.10	5/18/98	CERATIUM SPP.	909.48
WN986	N18	WN98603C	11.10	5/18/98	CERATIUM TRIPOS	1781.61
WN986	N18	WN98603C	11.10	5/18/98	DINOPHYSIS ACUMINATA	1.89
WN986	N18	WN98603C	11.10	5/18/98	DINOPHYSIS NORVEGICA	NA
WN986	N18	WN98603C	11.10	5/18/98	DISTEPHANUS SPECULUM	20.42
WN986	N18	WN98603C	11.10	5/18/98	GYMNODINIUM SPP. (30UM)	NA
WN986	N18	WN98603C	11.10	5/18/98	MESODINIUM RUBRUM	NA
WN986	N18	WN98603C	11.10	5/18/98	PROTOPIRIDINIUM DEPRESSUM	965.06
WN986	N18	WN98603C	11.10	5/18/98	PROTOPIRIDINIUM SPP.	31.57
WN986	N18	WN98603E	1.85	5/18/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	9867.37
WN986	N18	WN98603E	1.85	5/18/98	CERATIUM LINEATUM	11777.50
WN986	N18	WN98603E	1.85	5/18/98	CERATIUM LONGIPES	121129.72
WN986	N18	WN98603E	1.85	5/18/98	CERATIUM TRIPOS	23345.18
WN986	N18	WN98603E	1.85	5/18/98	CHAETOCEROS COMPRESSUS	3947.50
WN986	N18	WN98603E	1.85	5/18/98	CHAETOCEROS SOCIALIS	588.08
WN986	N18	WN98603E	1.85	5/18/98	CHAETOCEROS SPP. (<10UM)	191.32
WN986	N18	WN98603E	1.85	5/18/98	CHOANOFLAGELLATE SPP.	314.43
WN986	N18	WN98603E	1.85	5/18/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	2494.33
WN986	N18	WN98603E	1.85	5/18/98	DINOPHYSIS NORVEGICA	NA
WN986	N18	WN98603E	1.85	5/18/98	EBRIA TRIPARTITA	7517.38
WN986	N18	WN98603E	1.85	5/18/98	EUTREPTIA/EUTREPTIELLA SPP.	NA

Survey	Sta.	Sample Number	Depth (m)	Sampling Date	Plankton	Estimated Carbon Equivalence (ng Carbon/L)
WN986	N18	WN98603E	1.85	5/18/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	13239.77
WN986	N18	WN98603E	1.85	5/18/98	GYMNODINIUM SP. GROUP 2 21-40UM W 21-50UM L	30554.82
WN986	N18	WN98603E	1.85	5/18/98	GYRODINIUM SPIRALE	134476.42
WN986	N18	WN98603E	1.85	5/18/98	HETEROCAPSA TRIQUETRA	4655.40
WN986	N18	WN98603E	1.85	5/18/98	HETEROSIGMA AKASHIWO	NA
WN986	N18	WN98603E	1.85	5/18/98	LICMOPHORA SPP.	281.88
WN986	N18	WN98603E	1.85	5/18/98	PROROCENTRUM MINIMUM	2374.20
WN986	N18	WN98603E	1.85	5/18/98	PROTOPERIDINIUM SP. GROUP 1 10-30W 10-40L	2413.64
WN986	N18	WN98603E	1.85	5/18/98	PSEUDONITZSCHIA DELICATISSIMA	904.16
WN986	N18	WN98603E	1.85	5/18/98	PYRAMIMONAS SP. GROUP 1 10-20 MICRONS LENGTH	NA
WN986	N18	WN98603E	1.85	5/18/98	SKELETONEMA COSTATUM GREV+CLEVE	10892.08
WN986	N18	WN98603E	1.85	5/18/98	THALASSIONEMA NITZSCHIOIDES	2569.36
WN986	N18	WN98603E	1.85	5/18/98	THALASSIOSIRA ROTULA	22674.58
WN986	N18	WN98603E	1.85	5/18/98	THALASSIOSIRA SP. GROUP 1 DIAM <20 MICRONS	2774.97
WN986	N18	WN98603E	1.85	5/18/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	90817.23
WN986	N18	WN98603E	1.85	5/18/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	21373.37
WN986	N18	WN98603E	1.85	5/18/98	ATHECATE DINOFLAGELLATE	NA
WN986	N18	WN98603E	1.85	5/18/98	CERATIUM FUSUS	221.90
WN986	N18	WN98603E	1.85	5/18/98	CERATIUM LINEATUM	602.40
WN986	N18	WN98603E	1.85	5/18/98	CERATIUM LONGIPES	10842.22
WN986	N18	WN98603E	1.85	5/18/98	CERATIUM SPP.	467.73
WN986	N18	WN98603E	1.85	5/18/98	CERATIUM TRIPOS	1592.08
WN986	N18	WN98603E	1.85	5/18/98	DINOPHYSIS ACUMINATA	0.47
WN986	N18	WN98603E	1.85	5/18/98	DINOPHYSIS NORVEGICA	NA
WN986	N18	WN98603E	1.85	5/18/98	DISTEPHANUS SPECULUM	13.81
WN986	N18	WN98603E	1.85	5/18/98	MESODINIUM RUBRUM	NA
WN986	N18	WN98603E	1.85	5/18/98	PROROCENTRUM MINIMUM	0.19
WN986	N18	WN98603E	1.85	5/18/98	THECATE DINOFLAGELLATE SPP.	NA
WF987	F01	WF987031	18.21	6/15/98	AMPHIDIUM SPP.	6557.54
WF987	F01	WF987031	18.21	6/15/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	797.77
WF987	F01	WF987031	18.21	6/15/98	CERATAULINA PELAGICA	508497.36
WF987	F01	WF987031	18.21	6/15/98	CERATIUM FUSUS	15781.83
WF987	F01	WF987031	18.21	6/15/98	CERATIUM LINEATUM	10200.94
WF987	F01	WF987031	18.21	6/15/98	CERATIUM TRIPOS	40440.28
WF987	F01	WF987031	18.21	6/15/98	CHAETOCEROS COMPRESSUS	56072.92
WF987	F01	WF987031	18.21	6/15/98	CHAETOCEROS SEPTENTRIONALIS	NA
WF987	F01	WF987031	18.21	6/15/98	CHAETOCEROS SOCIALIS	435950.66
WF987	F01	WF987031	18.21	6/15/98	CHAETOCEROS SP. GROUP 2 DIAM 10-30 MICRONS	57902.81
WF987	F01	WF987031	18.21	6/15/98	CHAETOCEROS SPP.(<10UM)	31811.07
WF987	F01	WF987031	18.21	6/15/98	CHOANOFLAGELLATE SPP.	652.49
WF987	F01	WF987031	18.21	6/15/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	2070.43
WF987	F01	WF987031	18.21	6/15/98	CYLINDROTHECA CLOSTERIUM	19577.91
WF987	F01	WF987031	18.21	6/15/98	EUTREPTIA/EUTREPTIELLA SPP.	NA
WF987	F01	WF987031	18.21	6/15/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	3434.29
WF987	F01	WF987031	18.21	6/15/98	GYRODINIUM SPIRALE	46516.24
WF987	F01	WF987031	18.21	6/15/98	LEPTOCYLINDRUS MINIMUS	6218.59
WF987	F01	WF987031	18.21	6/15/98	PENNATE DIATOM SP. GROUP 2 10-30 MICRONS LENGTH	14690.16
WF987	F01	WF987031	18.21	6/15/98	PROBOSCIA ALATA	450633.54
WF987	F01	WF987031	18.21	6/15/98	PROTOPERIDINIUM SP. GROUP 2 31-75W 41-80L	29501.79
WF987	F01	WF987031	18.21	6/15/98	PSEUDONITZSCHIA DELICATISSIMA	1452.07
WF987	F01	WF987031	18.21	6/15/98	PYRAMIMONAS SP. GROUP 1 10-20 MICRONS LENGTH	NA

Survey	Sta.	Sample Number	Depth (m)	Sampling Date	Plankton	Estimated Carbon Equivalence (ng Carbon/L)
WF987	F01	WF987031	18.21	6/15/98	RHIZOLENIA DELICATULA	7238.84
WF987	F01	WF987031	18.21	6/15/98	RHIZOLENIA FRAGILISSIMA	21254.10
WF987	F01	WF987031	18.21	6/15/98	SKELETONEMA COSTATUM GREV+CLEVE	509.95
WF987	F01	WF987031	18.21	6/15/98	THALASSIONEMA NITZSCHIOIDES	1112.71
WF987	F01	WF987031	18.21	6/15/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	77913.89
WF987	F01	WF987031	18.21	6/15/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	8064.13
WF987	F01	WF987031	18.21	6/15/98	ALEXANDRIUM TAMARENSE	0.25
WF987	F01	WF987031	18.21	6/15/98	ATHECATE DINOFLAGELLATE	NA
WF987	F01	WF987031	18.21	6/15/98	CERATIUM FUSUS	181.22
WF987	F01	WF987031	18.21	6/15/98	CERATIUM LINEATUM	388.88
WF987	F01	WF987031	18.21	6/15/98	CERATIUM LONGIPES	530.06
WF987	F01	WF987031	18.21	6/15/98	CERATIUM TRIPOS	2321.79
WF987	F01	WF987031	18.21	6/15/98	DINOPHYSIS NORVEGICA	NA
WF987	F01	WF987031	18.21	6/15/98	DISTEPHANUS SPECULUM	6.47
WF987	F01	WF987031	18.21	6/15/98	GYMNODINIUM SPP.	2.60
WF987	F01	WF987031	18.21	6/15/98	GYRODINIUM SP. GROUP 1 5-20UM W 10-20UM L	0.53
WF987	F01	WF987031	18.21	6/15/98	HETEROCAPSA TRIQUETRA	0.93
WF987	F01	WF987031	18.21	6/15/98	MESODINIUM RUBRUM	NA
WF987	F01	WF987031	18.21	6/15/98	PROTOPERIDINIUM BREVIPIES	3.48
WF987	F01	WF987031	18.21	6/15/98	PROTOPERIDINIUM DEPRESSUM	354.66
WF987	F01	WF987031	18.21	6/15/98	PROTOPERIDINIUM PALLIDUM	117.74
WF987	F01	WF987031	18.21	6/15/98	PROTOPERIDINIUM SPP.	30.94
WF987	F01	WF987031	18.21	6/15/98	PROTOPERIDINIUM TROCHOIDIUM	1.72
WF987	F01	WF987031	18.21	6/15/98	THECATE DINOFLAGELLATE SPP.	NA
WF987	F01	WF987034	1.60	6/15/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	541.88
WF987	F01	WF987034	1.60	6/15/98	CERATAULINA PELAGICA	524567.79
WF987	F01	WF987034	1.60	6/15/98	CERATIUM TRIPOS	247219.85
WF987	F01	WF987034	1.60	6/15/98	CHAETOCEROS COMPRESSUS	213195.79
WF987	F01	WF987034	1.60	6/15/98	CHAETOCEROS SEPTENTRIONALIS	NA
WF987	F01	WF987034	1.60	6/15/98	CHAETOCEROS SOCIALIS	321716.36
WF987	F01	WF987034	1.60	6/15/98	CHAETOCEROS SP. GROUP 2 DIAM 10-30 MICRONS	364980.96
WF987	F01	WF987034	1.60	6/15/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	1054.75
WF987	F01	WF987034	1.60	6/15/98	CYLINDROTHECA CLOSTERIUM	7481.32
WF987	F01	WF987034	1.60	6/15/98	DICTYOCHA SPECULUM	NA
WF987	F01	WF987034	1.60	6/15/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	10497.28
WF987	F01	WF987034	1.60	6/15/98	GYRODINIUM SP. GROUP 1 5-20UM W 10-20UM L	3499.09
WF987	F01	WF987034	1.60	6/15/98	LEPTOCYLINDRUS DANICUS	1982.30
WF987	F01	WF987034	1.60	6/15/98	LEPTOCYLINDRUS MINIMUS	3120.68
WF987	F01	WF987034	1.60	6/15/98	PENNATE DIATOM SP. GROUP 2 10-30 MICRONS LENGTH	7483.66
WF987	F01	WF987034	1.60	6/15/98	PROBOSCIA ALATA	933082.96
WF987	F01	WF987034	1.60	6/15/98	PROTOPERIDINIUM DEPRESSUM	262245.96
WF987	F01	WF987034	1.60	6/15/98	PROTOPERIDINIUM PELLUCIDUM	196393.60
WF987	F01	WF987034	1.60	6/15/98	PSEUDONITZSCHIA DELICATISSIMA	1593.28
WF987	F01	WF987034	1.60	6/15/98	SKELETONEMA COSTATUM GREV+CLEVE	7170.06
WF987	F01	WF987034	1.60	6/15/98	THALASSIONEMA NITZSCHIOIDES	5441.00
WF987	F01	WF987034	1.60	6/15/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	68528.03
WF987	F01	WF987034	1.60	6/15/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	16432.56
WF987	F01	WF987034	1.60	6/15/98	ATHECATE DINOFLAGELLATE	NA
WF987	F01	WF987034	1.60	6/15/98	CERATIUM FUSUS	213.02
WF987	F01	WF987034	1.60	6/15/98	CERATIUM LINEATUM	472.74

Survey	Sta.	Sample Number	Depth (m)	Sampling Date	Plankton	Estimated Carbon Equivalence (ng Carbon/L)
WF987	F01	WF987034	1.60	6/15/98	CERATIUM LONGIPES	354.03
WF987	F01	WF987034	1.60	6/15/98	CERATIUM SPP.	174.62
WF987	F01	WF987034	1.60	6/15/98	CERATIUM TRIPOS	3457.09
WF987	F01	WF987034	1.60	6/15/98	DINOPHYSIS ACUMINATA	0.91
WF987	F01	WF987034	1.60	6/15/98	DINOPHYSIS NORVEGICA	NA
WF987	F01	WF987034	1.60	6/15/98	DISTEPHANUS SPECULUM	3.46
WF987	F01	WF987034	1.60	6/15/98	GYMNODINIUM SPP. (30UM)	NA
WF987	F01	WF987034	1.60	6/15/98	GYRODINIUM SP. GROUP 1 5-20UM W 10-20UM L	1.03
WF987	F01	WF987034	1.60	6/15/98	PROTOPERIDINIUM BREVIPIES	13.64
WF987	F01	WF987034	1.60	6/15/98	PROTOPERIDINIUM DEPRESSUM	694.84
WF987	F01	WF987034	1.60	6/15/98	PROTOPERIDINIUM PALLIDUM	192.23
WF987	F01	WF987034	1.60	6/15/98	PROTOPERIDINIUM SPP.	45.46
WF987	F01	WF987034	1.60	6/15/98	PROTOPERIDINIUM TROCHOIDIUM	14.35
WF987	F02	WF987042	14.28	6/15/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	2980.36
WF987	F02	WF987042	14.28	6/15/98	CERATIUM LONGIPES	48102.55
WF987	F02	WF987042	14.28	6/15/98	CHAETOCEROS COMPRESSUS	10450.77
WF987	F02	WF987042	14.28	6/15/98	CHAETOCEROS DECIPIENS	3643.13
WF987	F02	WF987042	14.28	6/15/98	CHAETOCEROS SOCIALIS	4982.13
WF987	F02	WF987042	14.28	6/15/98	CHAETOCEROS SP. GROUP 2 DIAM 10-30 MICRONS	24335.57
WF987	F02	WF987042	14.28	6/15/98	CHAETOCEROS SPP.(<10UM)	8778.05
WF987	F02	WF987042	14.28	6/15/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	632.85
WF987	F02	WF987042	14.28	6/15/98	CYLINDROTHECA CLOSTERIUM	2244.40
WF987	F02	WF987042	14.28	6/15/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	6998.19
WF987	F02	WF987042	14.28	6/15/98	LEPTOCYLINDRUS DANICUS	594.69
WF987	F02	WF987042	14.28	6/15/98	LEPTOCYLINDRUS MINIMUS	255.33
WF987	F02	WF987042	14.28	6/15/98	PENNATE DIATOM SP. GROUP 2 10-30 MICRONS LENGTH	160.39
WF987	F02	WF987042	14.28	6/15/98	PENNATE DIATOM SP. GROUP 3 31-60 MICRONS LENGTH	3056.98
WF987	F02	WF987042	14.28	6/15/98	PLEUROSIGMA SPP.	1371.99
WF987	F02	WF987042	14.28	6/15/98	PROBOSCIA ALATA	17773.01
WF987	F02	WF987042	14.28	6/15/98	PROTOPERIDINIUM BIPES	850.26
WF987	F02	WF987042	14.28	6/15/98	PSEUDONITZSCHIA DELICATISSIMA	136.57
WF987	F02	WF987042	14.28	6/15/98	RHIZOLENIA FRAGILISSIMA	541.46
WF987	F02	WF987042	14.28	6/15/98	SKELETONEMA COSTATUM GREV+CLEVE	1371.66
WF987	F02	WF987042	14.28	6/15/98	THALASSIONEMA NITZSCHIOIDES	8161.51
WF987	F02	WF987042	14.28	6/15/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	63100.07
WF987	F02	WF987042	14.28	6/15/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	4108.14
WF987	F02	WF987042	14.28	6/15/98	CERATIUM FUSUS	74.56
WF987	F02	WF987042	14.28	6/15/98	CERATIUM LINEATUM	36.14
WF987	F02	WF987042	14.28	6/15/98	CERATIUM LONGIPES	1424.98
WF987	F02	WF987042	14.28	6/15/98	CERATIUM SPP.	49.11
WF987	F02	WF987042	14.28	6/15/98	CERATIUM TRIPOS	286.57
WF987	F02	WF987042	14.28	6/15/98	DINOPHYSIS ACUMINATA	2.38
WF987	F02	WF987042	14.28	6/15/98	DINOPHYSIS NORVEGICA	NA
WF987	F02	WF987042	14.28	6/15/98	DISTEPHANUS SPECULUM	6.05
WF987	F02	WF987042	14.28	6/15/98	MESODINIUM RUBRUM	NA
WF987	F02	WF987042	14.28	6/15/98	PROTOPERIDINIUM SPP.	29.84
WF987	F02	WF987042	14.28	6/15/98	PROTOPERIDINIUM TROCHOIDIUM	4.43
WF987	F02	WF987042	14.28	6/15/98	THECATE DINOFLAGELLATE SPP.	NA
WF987	F02	WF987044	1.14	6/15/98	CERATAULINA PELAGICA	252569.68
WF987	F02	WF987044	1.14	6/15/98	CERATIUM FUSUS	16079.60

Survey	Sta.	Sample Number	Depth (m)	Sampling Date	Plankton	Estimated Carbon Equivalence (ng Carbon/L)
WF987	F02	WF987044	1.14	6/15/98	CHAETOCEROS COMPRESSUS	30655.60
WF987	F02	WF987044	1.14	6/15/98	CHAETOCEROS SEPTENTRIONALIS	NA
WF987	F02	WF987044	1.14	6/15/98	CHAETOCEROS SOCIALIS	16607.11
WF987	F02	WF987044	1.14	6/15/98	CHAETOCEROS SP. GROUP 2 DIAM 10-30 MICRONS	97710.99
WF987	F02	WF987044	1.14	6/15/98	CHAETOCEROS SPP.<10UM)	16205.64
WF987	F02	WF987044	1.14	6/15/98	CHAETOCEROS SUBTILIS	809.03
WF987	F02	WF987044	1.14	6/15/98	CHOANOFLLAGELLATE SPP.	1994.69
WF987	F02	WF987044	1.14	6/15/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	2109.50
WF987	F02	WF987044	1.14	6/15/98	CYLINDROTHECA CLOSTERIUM	2493.77
WF987	F02	WF987044	1.14	6/15/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	27992.74
WF987	F02	WF987044	1.14	6/15/98	GYMNODINIUM SP. GROUP 2 21-40UM W 21-50UM L	75379.65
WF987	F02	WF987044	1.14	6/15/98	LEPTOCYLINDRUS DANICUS	8920.35
WF987	F02	WF987044	1.14	6/15/98	LEPTOCYLINDRUS MINIMUS	8510.95
WF987	F02	WF987044	1.14	6/15/98	PENNATE DIATOM SP. GROUP 2 10-30 MICRONS LENGTH	1069.09
WF987	F02	WF987044	1.14	6/15/98	PENNATE DIATOM SP. GROUP 3 31-60 MICRONS LENGTH	1528.71
WF987	F02	WF987044	1.14	6/15/98	PROBOSCIA ALATA	1332975.66
WF987	F02	WF987044	1.14	6/15/98	PSEUDONITZSCHIA DELICATISSIMA	910.44
WF987	F02	WF987044	1.14	6/15/98	PYRAMIMONAS SP. GROUP 1 10-20 MICRONS LENGTH	NA
WF987	F02	WF987044	1.14	6/15/98	SKELETONEMA COSTATUM GREV+CLEVE	3325.25
WF987	F02	WF987044	1.14	6/15/98	THALASSIONEMA NITZSCHIOIDES	1133.71
WF987	F02	WF987044	1.14	6/15/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	80062.46
WF987	F02	WF987044	1.14	6/15/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	12324.42
WF987	F02	WF987044	1.14	6/15/98	ATHECATE DINOFLAGELLATE	NA
WF987	F02	WF987044	1.14	6/15/98	CERATIUM FUSUS	105.62
WF987	F02	WF987044	1.14	6/15/98	CERATIUM LONGIPES	476.47
WF987	F02	WF987044	1.14	6/15/98	CERATIUM SPP.	26.50
WF987	F02	WF987044	1.14	6/15/98	CERATIUM TRIPOS	425.31
WF987	F02	WF987044	1.14	6/15/98	DINOPHYSIS ACUMINATA	0.48
WF987	F02	WF987044	1.14	6/15/98	DINOPHYSIS NORVEGICA	NA
WF987	F02	WF987044	1.14	6/15/98	DISTEPHANUS SPECULUM	1.84
WF987	F02	WF987044	1.14	6/15/98	GYRODINIUM SP. GROUP 1 5-20UM W 10-20UM L	0.14
WF987	F02	WF987044	1.14	6/15/98	HETEROCAPSA TRIQUETRA	0.96
WF987	F02	WF987044	1.14	6/15/98	MESODINIUM RUBRUM	NA
WF987	F02	WF987044	1.14	6/15/98	PROTOPERIDINIUM DEPRESSUM	123.04
WF987	F02	WF987044	1.14	6/15/98	PROTOPERIDINIUM PALLIDUM	428.91
WF987	F02	WF987044	1.14	6/15/98	PROTOPERIDINIUM SPP.	16.10
WF987	F02	WF987044	1.14	6/15/98	PROTOPERIDINIUM TROCHOIDIUM	73.52
WF987	F02	WF987044	1.14	6/15/98	THECATE DINOFLAGELLATE SPP.	NA
WF987	F06	WF98708A	8.05	6/15/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	2127.39
WF987	F06	WF98708A	8.05	6/15/98	CERATAULINA PELAGICA	190686.51
WF987	F06	WF98708A	8.05	6/15/98	CERATIUM LONGIPES	157372.54
WF987	F06	WF98708A	8.05	6/15/98	CHAETOCEROS COMPRESSUS	422598.34
WF987	F06	WF98708A	8.05	6/15/98	CHAETOCEROS SOCIALIS	749672.15
WF987	F06	WF98708A	8.05	6/15/98	CHAETOCEROS SPP.<10UM)	194180.07
WF987	F06	WF98708A	8.05	6/15/98	COSCINODISCUS SP. GROUP 2 DIAM 40-100 MICRONS	41638.34
WF987	F06	WF98708A	8.05	6/15/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	3933.82
WF987	F06	WF98708A	8.05	6/15/98	CYLINDROTHECA CLOSTERIUM	14683.43
WF987	F06	WF98708A	8.05	6/15/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	6868.59
WF987	F06	WF98708A	8.05	6/15/98	GYRODINIUM SPIRALE	139548.73
WF987	F06	WF98708A	8.05	6/15/98	LEPTOCYLINDRUS MINIMUS	2227.56

Survey	Sta.	Sample Number	Depth (m)	Sampling Date	Plankton	Estimated Carbon Equivalence (ng Carbon/L)
WF987	F06	WF98708A	8.05	6/15/98	PENNATE DIATOM SP. GROUP 2 10-30 MICRONS LENGTH	23084.53
WF987	F06	WF98708A	8.05	6/15/98	PROBOSCIA ALATA	174438.79
WF987	F06	WF98708A	8.05	6/15/98	PSEUDONITZSCHIA DELICATISSIMA	670.19
WF987	F06	WF98708A	8.05	6/15/98	PYRAMIMONAS SP. GROUP 1 10-20 MICRONS LENGTH	NA
WF987	F06	WF98708A	8.05	6/15/98	SKELETONEMA COSTATUM GREV+CLEVE	1529.84
WF987	F06	WF98708A	8.05	6/15/98	THALASSIONEMA NITZSCHIOIDES	209.95
WF987	F06	WF98708A	8.05	6/15/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	65927.13
WF987	F06	WF98708A	8.05	6/15/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	12096.19
WF987	F06	WF98708A	8.05	6/15/98	ATHECATE DINOFLAGELLATE	NA
WF987	F06	WF98708A	8.05	6/15/98	CERATIUM FUSUS	27.07
WF987	F06	WF98708A	8.05	6/15/98	CERATIUM LINEATUM	69.99
WF987	F06	WF98708A	8.05	6/15/98	CERATIUM LONGIPES	1319.75
WF987	F06	WF98708A	8.05	6/15/98	CERATIUM SPP.	126.81
WF987	F06	WF98708A	8.05	6/15/98	CERATIUM TRIPOS	346.85
WF987	F06	WF98708A	8.05	6/15/98	DINOPHYSIS NORVEGICA	NA
WF987	F06	WF98708A	8.05	6/15/98	GYMNODINIUM SPP. (30UM)	NA
WF987	F06	WF98708A	8.05	6/15/98	GYRODINIUM SP. GROUP 1 5-20UM W 10-20UM L	1.31
WF987	F06	WF98708A	8.05	6/15/98	PROTOPERIDINIUM BREVIPIES	2.17
WF987	F06	WF98708A	8.05	6/15/98	PROTOPERIDINIUM DEPRESSUM	294.34
WF987	F06	WF98708A	8.05	6/15/98	PROTOPERIDINIUM SPP.	86.67
WF987	F06	WF98708A	8.05	6/15/98	PROTOPERIDINIUM TROCHOIDIUM	2.14
WF987	F06	WF98708B	1.56	6/15/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	1756.10
WF987	F06	WF98708B	1.56	6/15/98	CERATAULINA PELAGICA	215871.52
WF987	F06	WF98708B	1.56	6/15/98	CERATIUM FUSUS	89318.26
WF987	F06	WF98708B	1.56	6/15/98	CERATIUM LINEATUM	28870.58
WF987	F06	WF98708B	1.56	6/15/98	CHAETOCEROS COMPRESSUS	623175.78
WF987	F06	WF98708B	1.56	6/15/98	CHAETOCEROS DECIPIENS	56221.07
WF987	F06	WF98708B	1.56	6/15/98	CHAETOCEROS SOCIALIS	168185.40
WF987	F06	WF98708B	1.56	6/15/98	CHAETOCEROS SP. GROUP 2 DIAM 10-30 MICRONS	122906.91
WF987	F06	WF98708B	1.56	6/15/98	CHAETOCEROS SPP. (<10UM)	146300.91
WF987	F06	WF98708B	1.56	6/15/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	2734.53
WF987	F06	WF98708B	1.56	6/15/98	CRYPTOMONAS SP. GROUP 2 LENGTH >10 MICRONS	1254.36
WF987	F06	WF98708B	1.56	6/15/98	CYLINDROTHECA CLOSTERIUM	9234.86
WF987	F06	WF98708B	1.56	6/15/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	6479.80
WF987	F06	WF98708B	1.56	6/15/98	GYRODINIUM SPIRALE	263261.57
WF987	F06	WF98708B	1.56	6/15/98	HETEROCAPSA ROTUNDATA	637.60
WF987	F06	WF98708B	1.56	6/15/98	HETEROCAPSA TRIQUETRA	11410.30
WF987	F06	WF98708B	1.56	6/15/98	LEPTOCYLINDRUS MINIMUS	7355.14
WF987	F06	WF98708B	1.56	6/15/98	PENNATE DIATOM SP. GROUP 2 10-30 MICRONS LENGTH	19798.05
WF987	F06	WF98708B	1.56	6/15/98	PROBOSCIA ALATA	164541.20
WF987	F06	WF98708B	1.56	6/15/98	PSEUDONITZSCHIA DELICATISSIMA	632.16
WF987	F06	WF98708B	1.56	6/15/98	PYRAMIMONAS SP. GROUP 1 10-20 MICRONS LENGTH	NA
WF987	F06	WF98708B	1.56	6/15/98	RHIZOLENIA FRAGILISSIMA	20051.04
WF987	F06	WF98708B	1.56	6/15/98	SKELETONEMA COSTATUM GREV+CLEVE	7503.82
WF987	F06	WF98708B	1.56	6/15/98	THALASSIONEMA NITZSCHIOIDES	1259.67
WF987	F06	WF98708B	1.56	6/15/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	80414.27
WF987	F06	WF98708B	1.56	6/15/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	7607.67
WF987	F06	WF98708B	1.56	6/15/98	ATHECATE DINOFLAGELLATE	NA
WF987	F06	WF98708B	1.56	6/15/98	CERATIUM FUSUS	190.54

Survey	Sta.	Sample Number	Depth (m)	Sampling Date	Plankton	Estimated Carbon Equivalence (ng Carbon/L)
WF987	F06	WF98708B	1.56	6/15/98	CERATIUM LINEATUM	514.05
WF987	F06	WF98708B	1.56	6/15/98	CERATIUM LONGIPES	743.47
WF987	F06	WF98708B	1.56	6/15/98	CERATIUM SPP.	349.24
WF987	F06	WF98708B	1.56	6/15/98	CERATIUM TRIPOS	3141.71
WF987	F06	WF98708B	1.56	6/15/98	DINOPHYSIS NORVEGICA	NA
WF987	F06	WF98708B	1.56	6/15/98	GYRODINIUM SP. GROUP 1 5-20UM W 10-20UM L	1.20
WF987	F06	WF98708B	1.56	6/15/98	HETEROCAPSA TRIQUETRA	0.53
WF987	F06	WF98708B	1.56	6/15/98	MESODINIUM RUBRUM	NA
WF987	F06	WF98708B	1.56	6/15/98	PROTOPERIDIUM BREVIPES	7.96
WF987	F06	WF98708B	1.56	6/15/98	PROTOPERIDIUM DEPRESSUM	810.65
WF987	F06	WF98708B	1.56	6/15/98	PROTOPERIDIUM DIVERGENS	23.13
WF987	F06	WF98708B	1.56	6/15/98	PROTOPERIDIUM PALLIDUM	44.85
WF987	F06	WF98708B	1.56	6/15/98	PROTOPERIDIUM SPP.	70.72
WF987	F31	WF9870B0	5.47	6/15/98	AMPHIDIUM SPP.	1655.09
WF987	F31	WF9870B0	5.47	6/15/98	ASTERIONELLA FORMOSA	280.59
WF987	F31	WF9870B0	5.47	6/15/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	1879.03
WF987	F31	WF9870B0	5.47	6/15/98	CERATAULINA PELAGICA	105866.99
WF987	F31	WF9870B0	5.47	6/15/98	CERATIUM LINEATUM	7722.88
WF987	F31	WF9870B0	5.47	6/15/98	CHAETOCEROS COMPRESSUS	143920.71
WF987	F31	WF9870B0	5.47	6/15/98	CHAETOCEROS DECIPIENS	192473.23
WF987	F31	WF9870B0	5.47	6/15/98	CHAETOCEROS SOCIALIS	152171.46
WF987	F31	WF9870B0	5.47	6/15/98	CHAETOCEROS SPP.(<10UM)	121754.87
WF987	F31	WF9870B0	5.47	6/15/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	9822.84
WF987	F31	WF9870B0	5.47	6/15/98	CRYPTOMONAS SP. GROUP 2 LENGTH >10 MICRONS	13421.65
WF987	F31	WF9870B0	5.47	6/15/98	CYLINDROTHECA CLOSTERIUM	1853.01
WF987	F31	WF9870B0	5.47	6/15/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	17333.47
WF987	F31	WF9870B0	5.47	6/15/98	GYMNODINIUM SP. GROUP 2 21-40UM W 21-50UM L	8001.61
WF987	F31	WF9870B0	5.47	6/15/98	GYRODINIUM SPIRALE	35216.31
WF987	F31	WF9870B0	5.47	6/15/98	LICMOPHORA SPP.	369.67
WF987	F31	WF9870B0	5.47	6/15/98	PENNATE DIATOM SP. GROUP 2 10-30 MICRONS LENGTH	1059.20
WF987	F31	WF9870B0	5.47	6/15/98	PENNATE DIATOM SP. GROUP 3 31-60 MICRONS LENGTH	1893.19
WF987	F31	WF9870B0	5.47	6/15/98	PSEUDONITZSCHIA DELICATISSIMA	84.56
WF987	F31	WF9870B0	5.47	6/15/98	SCENESDESMUS QUADRICAUDA	47.57
WF987	F31	WF9870B0	5.47	6/15/98	SKELETONEMA COSTATUM GREV+CLEVE	8416.31
WF987	F31	WF9870B0	5.47	6/15/98	THALASSIONEMA NITZSCHIOIDES	336.96
WF987	F31	WF9870B0	5.47	6/15/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	91420.97
WF987	F31	WF9870B0	5.47	6/15/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	8140.21
WF987	F31	WF9870B0	5.47	6/15/98	ALEXANDRIUM TAMARENSE	0.51
WF987	F31	WF9870B0	5.47	6/15/98	ATHECATE DINOFLAGELLATE	NA
WF987	F31	WF9870B0	5.47	6/15/98	CERATIUM FUSUS	125.74
WF987	F31	WF9870B0	5.47	6/15/98	CERATIUM LINEATUM	200.80
WF987	F31	WF9870B0	5.47	6/15/98	CERATIUM LONGIPES	737.57
WF987	F31	WF9870B0	5.47	6/15/98	CERATIUM SPP.	51.97
WF987	F31	WF9870B0	5.47	6/15/98	CERATIUM TRIPOS	265.35
WF987	F31	WF9870B0	5.47	6/15/98	DINOPHYSIS ACUMINATA	1.89
WF987	F31	WF9870B0	5.47	6/15/98	DINOPHYSIS NORVEGICA	NA
WF987	F31	WF9870B0	5.47	6/15/98	DISTEPHANUS SPECULUM	1.80
WF987	F31	WF9870B0	5.47	6/15/98	GYMNODINIUM SPP. (30UM)	NA
WF987	F31	WF9870B0	5.47	6/15/98	GYRODINIUM SP. GROUP 1 5-20UM W 10-20UM L	1.34
WF987	F31	WF9870B0	5.47	6/15/98	MESODINIUM RUBRUM	NA

Survey	Sta.	Sample Number	Depth (m)	Sampling Date	Plankton	Estimated Carbon Equivalence (ng Carbon/L)
WF987	F31	WF9870B0	5.47	6/15/98	PROTOPERIDINIUM BREVIPIES	3.55
WF987	F31	WF9870B0	5.47	6/15/98	PROTOPERIDINIUM DEPRESSUM	120.63
WF987	F31	WF9870B0	5.47	6/15/98	PROTOPERIDINIUM DIVERGENS	41.30
WF987	F31	WF9870B0	5.47	6/15/98	PROTOPERIDINIUM PALLIDUM	20.02
WF987	F31	WF9870B0	5.47	6/15/98	PROTOPERIDINIUM SPP.	67.09
WF987	F31	WF9870B0	5.47	6/15/98	PROTOPERIDINIUM TROCHOIDIUM	15.82
WF987	F31	WF9870B0	5.47	6/15/98	THECATE DINOFLAGELLATE SPP.	NA
WF987	F31	WF9870B2	1.70	6/15/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	2508.72
WF987	F31	WF9870B2	1.70	6/15/98	CERATAULINA PELAGICA	323760.65
WF987	F31	WF9870B2	1.70	6/15/98	CHAETOCEROS COMPRESSUS	170308.91
WF987	F31	WF9870B2	1.70	6/15/98	CHAETOCEROS SOCIALIS	149903.68
WF987	F31	WF9870B2	1.70	6/15/98	CHAETOCEROS SPP.(<10UM)	88780.89
WF987	F31	WF9870B2	1.70	6/15/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	20509.01
WF987	F31	WF9870B2	1.70	6/15/98	CRYPTOMONAS SP. GROUP 2 LENGTH >10 MICRONS	13797.96
WF987	F31	WF9870B2	1.70	6/15/98	EUTREPTIA/EUTREPTIELLA SPP.	NA
WF987	F31	WF9870B2	1.70	6/15/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	3239.90
WF987	F31	WF9870B2	1.70	6/15/98	HETEROCAPSA ROTUNDATA	637.60
WF987	F31	WF9870B2	1.70	6/15/98	HETEROSIGMA AKASHIWO	NA
WF987	F31	WF9870B2	1.70	6/15/98	PENNATE DIATOM SP. GROUP 2 10-30 MICRONS LENGTH	5939.42
WF987	F31	WF9870B2	1.70	6/15/98	PENNATE DIATOM SP. GROUP 3 31-60 MICRONS LENGTH	707.74
WF987	F31	WF9870B2	1.70	6/15/98	RHIZOLENIA FRAGILISSIMA	2506.74
WF987	F31	WF9870B2	1.70	6/15/98	SKELETONEMA COSTATUM GREV+CLEVE	22370.37
WF987	F31	WF9870B2	1.70	6/15/98	THALASSIOSIRA SP. GROUP 2 DIAM >20 MICRONS	11977.01
WF987	F31	WF9870B2	1.70	6/15/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	98633.13
WF987	F31	WF9870B2	1.70	6/15/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	15215.34
WF987	F31	WF9870B2	1.70	6/15/98	ALEXANDRIUM TAMARENSE	0.29
WF987	F31	WF9870B2	1.70	6/15/98	ATHECATE DINOFLAGELLATE	NA
WF987	F31	WF9870B2	1.70	6/15/98	CERATIUM FUSUS	173.97
WF987	F31	WF9870B2	1.70	6/15/98	CERATIUM LINEATUM	637.20
WF987	F31	WF9870B2	1.70	6/15/98	CERATIUM LONGIPES	963.75
WF987	F31	WF9870B2	1.70	6/15/98	CERATIUM SPP.	218.27
WF987	F31	WF9870B2	1.70	6/15/98	CERATIUM TRIPOS	721.74
WF987	F31	WF9870B2	1.70	6/15/98	DINOPHYSIS ACUMINATA	10.58
WF987	F31	WF9870B2	1.70	6/15/98	DINOPHYSIS NORVEGICA	NA
WF987	F31	WF9870B2	1.70	6/15/98	DISTEPHANUS SPECULUM	0.67
WF987	F31	WF9870B2	1.70	6/15/98	GYMNODINIUM SPP. (30UM)	NA
WF987	F31	WF9870B2	1.70	6/15/98	GYRODINIUM SP. GROUP 1 5-20UM W 10-20UM L	0.90
WF987	F31	WF9870B2	1.70	6/15/98	HETEROCAPSA TRIQUETRA	4.23
WF987	F31	WF9870B2	1.70	6/15/98	MESODINIUM RUBRUM	NA
WF987	F31	WF9870B2	1.70	6/15/98	PROROCENTRUM MINIMUM	0.43
WF987	F31	WF9870B2	1.70	6/15/98	PROTOPERIDINIUM DEPRESSUM	1486.19
WF987	F31	WF9870B2	1.70	6/15/98	PROTOPERIDINIUM SPP.	88.40
WF987	F31	WF9870B2	1.70	6/15/98	THECATE DINOFLAGELLATE SPP.	NA
WF987	F13	WF9870D3	12.13	6/16/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	1354.71
WF987	F13	WF9870D3	12.13	6/16/98	CERATAULINA PELAGICA	38856.87
WF987	F13	WF9870D3	12.13	6/16/98	CHAETOCEROS COMPRESSUS	225736.72
WF987	F13	WF9870D3	12.13	6/16/98	CHAETOCEROS DECIPIENS	63754.69
WF987	F13	WF9870D3	12.13	6/16/98	CHAETOCEROS SOCIALIS	147366.85
WF987	F13	WF9870D3	12.13	6/16/98	CHAETOCEROS SP. GROUP 2 DIAM 10-30 MICRONS	23505.95
WF987	F13	WF9870D3	12.13	6/16/98	CHAETOCEROS SPP.(<10UM)	137747.93

Survey	Sta.	Sample Number	Depth (m)	Sampling Date	Plankton	Estimated Carbon Equivalence (ng Carbon/L)
WF987	F13	WF9870D3	12.13	6/16/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	2109.50
WF987	F13	WF9870D3	12.13	6/16/98	CYLINDROTHECA CLOSTERIUM	1870.33
WF987	F13	WF9870D3	12.13	6/16/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	3499.09
WF987	F13	WF9870D3	12.13	6/16/98	LEPTOCYLINDRUS DANICUS	1486.73
WF987	F13	WF9870D3	12.13	6/16/98	PARALIA SULCATA	3249.57
WF987	F13	WF9870D3	12.13	6/16/98	PENNATE DIATOM SP. GROUP 2 10-30 MICRONS LENGTH	9621.85
WF987	F13	WF9870D3	12.13	6/16/98	PENNATE DIATOM SP. GROUP 3 31-60 MICRONS LENGTH	382.18
WF987	F13	WF9870D3	12.13	6/16/98	PROBOSCIA ALATA	55540.65
WF987	F13	WF9870D3	12.13	6/16/98	PSEUDONITZSCHIA DELICATISSIMA	1365.47
WF987	F13	WF9870D3	12.13	6/16/98	RHIZOLENIA FRAGILISSIMA	1353.64
WF987	F13	WF9870D3	12.13	6/16/98	SKELETONEMA COSTATUM GREV+CLEVE	4052.65
WF987	F13	WF9870D3	12.13	6/16/98	STEPHANOPYXIS TURRIS	11788.64
WF987	F13	WF9870D3	12.13	6/16/98	THALASSIONEMA NITZSCHIOIDES	170.06
WF987	F13	WF9870D3	12.13	6/16/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	63778.57
WF987	F13	WF9870D3	12.13	6/16/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	8216.28
WF987	F13	WF9870D3	12.13	6/16/98	ATHECATE DINOFLAGELLATE	NA
WF987	F13	WF9870D3	12.13	6/16/98	CERATIUM FUSUS	14.50
WF987	F13	WF9870D3	12.13	6/16/98	CERATIUM LINEATUM	42.17
WF987	F13	WF9870D3	12.13	6/16/98	CERATIUM LONGIPES	385.50
WF987	F13	WF9870D3	12.13	6/16/98	CERATIUM SPP.	89.13
WF987	F13	WF9870D3	12.13	6/16/98	CERATIUM TRIPOS	315.76
WF987	F13	WF9870D3	12.13	6/16/98	DINOPHYSIS NORVEGICA	NA
WF987	F13	WF9870D3	12.13	6/16/98	HETEROCAPSA TRIQUETRA	0.46
WF987	F13	WF9870D3	12.13	6/16/98	PROTOPERIDIUM DEPRESSUM	354.66
WF987	F13	WF9870D3	12.13	6/16/98	PROTOPERIDIUM SPP.	30.94
WF987	F13	WF9870D5	1.53	6/16/98	AMPHIDIUM SPP.	1655.09
WF987	F13	WF9870D5	1.53	6/16/98	CALYCOMONAS WULFFII	243.24
WF987	F13	WF9870D5	1.53	6/16/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	12347.92
WF987	F13	WF9870D5	1.53	6/16/98	CERATAULINA PELAGICA	163612.62
WF987	F13	WF9870D5	1.53	6/16/98	CERATIUM LINEATUM	15445.76
WF987	F13	WF9870D5	1.53	6/16/98	CHAETOCEROS COMPRESSUS	277487.40
WF987	F13	WF9870D5	1.53	6/16/98	CHAETOCEROS DEBILIS	13530.20
WF987	F13	WF9870D5	1.53	6/16/98	CHAETOCEROS SEPTENTRIONALIS	NA
WF987	F13	WF9870D5	1.53	6/16/98	CHAETOCEROS SOCIALIS	197440.05
WF987	F13	WF9870D5	1.53	6/16/98	CHAETOCEROS SP. GROUP 2 DIAM 10-30 MICRONS	153428.79
WF987	F13	WF9870D5	1.53	6/16/98	CHAETOCEROS SPP. (<10UM)	135134.52
WF987	F13	WF9870D5	1.53	6/16/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	7523.88
WF987	F13	WF9870D5	1.53	6/16/98	CRYPTOMONAS SP. GROUP 2 LENGTH >10 MICRONS	2684.33
WF987	F13	WF9870D5	1.53	6/16/98	DINOPHYSIS NORVEGICA	NA
WF987	F13	WF9870D5	1.53	6/16/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	55467.10
WF987	F13	WF9870D5	1.53	6/16/98	GYRODINIUM SPIRALE	281730.45
WF987	F13	WF9870D5	1.53	6/16/98	LEPTOCYLINDRUS DANICUS	2945.92
WF987	F13	WF9870D5	1.53	6/16/98	PENNATE DIATOM SP. GROUP 2 10-30 MICRONS LENGTH	4236.78
WF987	F13	WF9870D5	1.53	6/16/98	PROBOSCIA ALATA	22010.55
WF987	F13	WF9870D5	1.53	6/16/98	PROTOPERIDIUM BIPES	16845.38
WF987	F13	WF9870D5	1.53	6/16/98	PROTOPERIDIUM PELLUCIDUM	194575.14
WF987	F13	WF9870D5	1.53	6/16/98	PSEUDONITZSCHIA PUNGENS	811.55
WF987	F13	WF9870D5	1.53	6/16/98	PYRAMIMONAS SP. GROUP 1 10-20 MICRONS LENGTH	NA
WF987	F13	WF9870D5	1.53	6/16/98	RHIZOLENIA FRAGILISSIMA	8046.64

Survey	Sta.	Sample Number	Depth (m)	Sampling Date	Plankton	Estimated Carbon Equivalence (ng Carbon/L)
WF987	F13	WF9870D5	1.53	6/16/98	SCENEDESMUS QUADRICAUDA	95.14
WF987	F13	WF9870D5	1.53	6/16/98	SKELETONEMA COSTATUM GREV+CLEVE	9420.09
WF987	F13	WF9870D5	1.53	6/16/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	153936.78
WF987	F13	WF9870D5	1.53	6/16/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	20350.51
WF987	F13	WF9870D5	1.53	6/16/98	ATHECATE DINOFLAGELLATE	NA
WF987	F13	WF9870D5	1.53	6/16/98	CERATIUM FUSUS	369.24
WF987	F13	WF9870D5	1.53	6/16/98	CERATIUM LINEATUM	100.97
WF987	F13	WF9870D5	1.53	6/16/98	CERATIUM LONGIPES	495.64
WF987	F13	WF9870D5	1.53	6/16/98	CERATIUM SPP.	62.36
WF987	F13	WF9870D5	1.53	6/16/98	CERATIUM TRIPOS	400.29
WF987	F13	WF9870D5	1.53	6/16/98	DINOPHYSIS NORVEGICA	NA
WF987	F13	WF9870D5	1.53	6/16/98	DISTEPHANUS SPECULUM	0.29
WF987	F13	WF9870D5	1.53	6/16/98	GYRODINIUM SP. GROUP 1 5-20UM W 10-20UM L	3.09
WF987	F13	WF9870D5	1.53	6/16/98	PROTOPERIDINIUM DEPRESSUM	347.42
WF987	F13	WF9870D5	1.53	6/16/98	PROTOPERIDINIUM DIVERGENS	19.82
WF987	F13	WF9870D5	1.53	6/16/98	PROTOPERIDINIUM PALLIDUM	19.22
WF987	F13	WF9870D5	1.53	6/16/98	PROTOPERIDINIUM SPP.	37.89
WF987	F13	WF9870D5	1.53	6/16/98	THECATE DINOFLAGELLATE SPP.	NA
WF987	F27	WF98715A	13.88	6/17/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	175.61
WF987	F27	WF98715A	13.88	6/17/98	CERATAULINA PELAGICA	9444.38
WF987	F27	WF98715A	13.88	6/17/98	CERATIUM FUSUS	31261.39
WF987	F27	WF98715A	13.88	6/17/98	CERATIUM LINEATUM	40412.99
WF987	F27	WF98715A	13.88	6/17/98	CERATIUM LONGIPES	93532.74
WF987	F27	WF98715A	13.88	6/17/98	CERATIUM TRIPOS	12017.63
WF987	F27	WF98715A	13.88	6/17/98	CHAETOCEROS COMPRESSUS	16254.42
WF987	F27	WF98715A	13.88	6/17/98	CHAETOCEROS DECIPIENS	15739.63
WF987	F27	WF98715A	13.88	6/17/98	CHAETOCEROS SOCIALIS	706.38
WF987	F27	WF98715A	13.88	6/17/98	CHAETOCEROS SP. GROUP 2 DIAM 10-30 MICRONS	7528.05
WF987	F27	WF98715A	13.88	6/17/98	CHAETOCEROS SPP.(<10UM)	4157.70
WF987	F27	WF98715A	13.88	6/17/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	205.09
WF987	F27	WF98715A	13.88	6/17/98	CRYPTOMONAS SP. GROUP 2 LENGTH >10 MICRONS	439.03
WF987	F27	WF98715A	13.88	6/17/98	CYLINDROTHECA CLOSTERIUM	242.45
WF987	F27	WF98715A	13.88	6/17/98	DINOPHYSIS NORVEGICA	NA
WF987	F27	WF98715A	13.88	6/17/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	7937.76
WF987	F27	WF98715A	13.88	6/17/98	GYMNODINIUM SP. GROUP 2 21-40UM W 21-50UM L	6281.64
WF987	F27	WF98715A	13.88	6/17/98	GYRODINIUM SPIRALE	92141.55
WF987	F27	WF98715A	13.88	6/17/98	HETEROCAPSA ROTUNDATA	223.16
WF987	F27	WF98715A	13.88	6/17/98	PENNATE DIATOM SP. GROUP 2 10-30 MICRONS LENGTH	692.93
WF987	F27	WF98715A	13.88	6/17/98	PROBOSCIA ALATA	38878.46
WF987	F27	WF98715A	13.88	6/17/98	PROTOPERIDINIUM DEPRESSUM	76488.41
WF987	F27	WF98715A	13.88	6/17/98	PSEUDONITZSCHIA DELICATISSIMA	221.26
WF987	F27	WF98715A	13.88	6/17/98	SKELETONEMA COSTATUM GREV+CLEVE	1576.03
WF987	F27	WF98715A	13.88	6/17/98	THALASSIONEMA NITZSCHIOIDES	881.64
WF987	F27	WF98715A	13.88	6/17/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	17810.50
WF987	F27	WF98715A	13.88	6/17/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	3994.03
WF987	F27	WF98715A	13.88	6/17/98	ATHECATE DINOFLAGELLATE	NA
WF987	F27	WF98715A	13.88	6/17/98	CERATIUM FUSUS	271.60
WF987	F27	WF98715A	13.88	6/17/98	CERATIUM LINEATUM	227.19
WF987	F27	WF98715A	13.88	6/17/98	CERATIUM LONGIPES	4407.69
WF987	F27	WF98715A	13.88	6/17/98	CERATIUM SPP.	140.32

Survey	Sta.	Sample Number	Depth (m)	Sampling Date	Plankton	Estimated Carbon Equivalence (ng Carbon/L)
WF987	F27	WF98715A	13.88	6/17/98	CERATIUM TRIPOS	2190.25
WF987	F27	WF98715A	13.88	6/17/98	DINOPHYSIS NORVEGICA	NA
WF987	F27	WF98715A	13.88	6/17/98	DISTEPHANUS SPECULUM	0.32
WF987	F27	WF98715A	13.88	6/17/98	HETEROCAPSA TRIQUETRA	1.02
WF987	F27	WF98715A	13.88	6/17/98	PROTOPERIDINIUM BREVIPIES	1.92
WF987	F27	WF98715A	13.88	6/17/98	PROTOPERIDINIUM DEPRESSUM	1172.54
WF987	F27	WF98715A	13.88	6/17/98	PROTOPERIDINIUM PALLIDUM	21.63
WF987	F27	WF98715A	13.88	6/17/98	PROTOPERIDINIUM SPP.	110.82
WF987	F27	WF98715A	13.88	6/17/98	PROTOPERIDINIUM TROCHOIDIUM	100.63
WF987	F27	WF98715B	1.48	6/17/98	AMPHIDIINIUM SPP.	2227.09
WF987	F27	WF98715B	1.48	6/17/98	CALYCOMONAS WULFFII	81.84
WF987	F27	WF98715B	1.48	6/17/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	90.31
WF987	F27	WF98715B	1.48	6/17/98	CERATAULINA PELAGICA	25256.97
WF987	F27	WF98715B	1.48	6/17/98	CERATIUM FUSUS	19295.52
WF987	F27	WF98715B	1.48	6/17/98	CERATIUM LONGIPES	106879.16
WF987	F27	WF98715B	1.48	6/17/98	CERATIUM TRIPOS	24721.98
WF987	F27	WF98715B	1.48	6/17/98	CHAETOCEROS COMPRESSUS	43057.19
WF987	F27	WF98715B	1.48	6/17/98	CHAETOCEROS SP. GROUP 2 DIAM 10-30 MICRONS	47926.79
WF987	F27	WF98715B	1.48	6/17/98	CHAETOCEROS SPP.(<10UM)	2475.86
WF987	F27	WF98715B	1.48	6/17/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	492.22
WF987	F27	WF98715B	1.48	6/17/98	CRYPTOMONAS SP. GROUP 2 LENGTH >10 MICRONS	451.57
WF987	F27	WF98715B	1.48	6/17/98	DINOPHYSIS NORVEGICA	NA
WF987	F27	WF98715B	1.48	6/17/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	8164.55
WF987	F27	WF98715B	1.48	6/17/98	GYMNODINIUM SP. GROUP 2 21-40UM W 21-50UM L	3230.56
WF987	F27	WF98715B	1.48	6/17/98	LEPTOCYLINDRUS DANICUS	1486.73
WF987	F27	WF98715B	1.48	6/17/98	LEPTOCYLINDRUS MINIMUS	1475.23
WF987	F27	WF98715B	1.48	6/17/98	PENNATE DIATOM SP. GROUP 2 10-30 MICRONS LENGTH	1069.09
WF987	F27	WF98715B	1.48	6/17/98	PROBOSCIA ALATA	248822.12
WF987	F27	WF98715B	1.48	6/17/98	PROTOPERIDINIUM SP. GROUP 1 10-30W 10-40L	5111.98
WF987	F27	WF98715B	1.48	6/17/98	RHIZOLENIA FRAGILISSIMA	3609.19
WF987	F27	WF98715B	1.48	6/17/98	SKELETONEMA COSTATUM GREV+CLEVE	155.87
WF987	F27	WF98715B	1.48	6/17/98	THALASSIONEMA NITZSCHIOIDES	906.83
WF987	F27	WF98715B	1.48	6/17/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	20354.86
WF987	F27	WF98715B	1.48	6/17/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	5477.52
WF987	F27	WF98715B	1.48	6/17/98	ATHECATE DINOFLAGELLATE	NA
WF987	F27	WF98715B	1.48	6/17/98	CERATIUM FUSUS	553.85
WF987	F27	WF98715B	1.48	6/17/98	CERATIUM LINEATUM	59.67
WF987	F27	WF98715B	1.48	6/17/98	CERATIUM LONGIPES	1278.45
WF987	F27	WF98715B	1.48	6/17/98	CERATIUM SPP.	54.05
WF987	F27	WF98715B	1.48	6/17/98	CERATIUM TRIPOS	2799.03
WF987	F27	WF98715B	1.48	6/17/98	DINOPHYSIS ACUMINATA	0.98
WF987	F27	WF98715B	1.48	6/17/98	DINOPHYSIS NORVEGICA	NA
WF987	F27	WF98715B	1.48	6/17/98	HETEROCAPSA TRIQUETRA	1.97
WF987	F27	WF98715B	1.48	6/17/98	PROTOPERIDINIUM BREVIPIES	3.69
WF987	F27	WF98715B	1.48	6/17/98	PROTOPERIDINIUM DEPRESSUM	250.91
WF987	F27	WF98715B	1.48	6/17/98	PROTOPERIDINIUM DIVERGENS	21.47
WF987	F27	WF98715B	1.48	6/17/98	PROTOPERIDINIUM PALLIDUM	124.95
WF987	F27	WF98715B	1.48	6/17/98	PROTOPERIDINIUM SPP.	57.46
WF987	F27	WF98715B	1.48	6/17/98	PROTOPERIDINIUM TROCHOIDIUM	153.59
WF987	F27	WF98715B	1.48	6/17/98	THECATE DINOFLAGELLATE SPP.	NA
WF987	F24	WF987189	7.19	6/17/98	AMPHIDIINIUM SPP.	1093.08

Survey	Sta.	Sample Number	Depth (m)	Sampling Date	Plankton	Estimated Carbon Equivalence (ng Carbon/L)
WF987	F24	WF987189	7.19	6/17/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	2260.36
WF987	F24	WF987189	7.19	6/17/98	CERATAULINA PELAGICA	680115.22
WF987	F24	WF987189	7.19	6/17/98	CHAETOCEROS COMPRESSUS	209247.72
WF987	F24	WF987189	7.19	6/17/98	CHAETOCEROS DECIPIENS	11918.87
WF987	F24	WF987189	7.19	6/17/98	CHAETOCEROS SP. GROUP 2 DIAM 10-30 MICRONS	112186.70
WF987	F24	WF987189	7.19	6/17/98	CHAETOCEROS SPP.<(10UM)	67598.52
WF987	F24	WF987189	7.19	6/17/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	2173.95
WF987	F24	WF987189	7.19	6/17/98	CRYPTOMONAS SP. GROUP 2 LENGTH >10 MICRONS	1329.62
WF987	F24	WF987189	7.19	6/17/98	CYLINDROTHECA CLOSTERIUM	1631.73
WF987	F24	WF987189	7.19	6/17/98	DINOPHYSIS NORVEGICA	NA
WF987	F24	WF987189	7.19	6/17/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	8585.74
WF987	F24	WF987189	7.19	6/17/98	GYRODINIUM SP. GROUP 2 21-40UM W 21-50UM L	63405.49
WF987	F24	WF987189	7.19	6/17/98	GYRODINIUM SPIRALE	46516.24
WF987	F24	WF987189	7.19	6/17/98	HETEROCAPSA ROTUNDATA	337.93
WF987	F24	WF987189	7.19	6/17/98	LEPTOCYLINDRUS DANICUS	3891.18
WF987	F24	WF987189	7.19	6/17/98	LEPTOCYLINDRUS MINIMUS	742.52
WF987	F24	WF987189	7.19	6/17/98	PROBOSCIA ALATA	130810.25
WF987	F24	WF987189	7.19	6/17/98	PSEUDONITZSCHIA DELICATISSIMA	3015.41
WF987	F24	WF987189	7.19	6/17/98	PYRAMIMONAS SP. GROUP 1 10-20 MICRONS LENGTH	NA
WF987	F24	WF987189	7.19	6/17/98	SKELETONEMA COSTATUM GREV+CLEVE	13054.68
WF987	F24	WF987189	7.19	6/17/98	THALASSIONEMA NITZSCHIOIDES	1335.06
WF987	F24	WF987189	7.19	6/17/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	39622.87
WF987	F24	WF987189	7.19	6/17/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	10080.16
WF987	F24	WF987189	7.19	6/17/98	ALEXANDRIUM TAMARENSE	0.51
WF987	F24	WF987189	7.19	6/17/98	CERATIUM FUSUS	872.79
WF987	F24	WF987189	7.19	6/17/98	CERATIUM LINEATUM	76.49
WF987	F24	WF987189	7.19	6/17/98	CERATIUM LONGIPES	7375.66
WF987	F24	WF987189	7.19	6/17/98	CERATIUM SPP.	415.76
WF987	F24	WF987189	7.19	6/17/98	CERATIUM TRIPOS	4169.74
WF987	F24	WF987189	7.19	6/17/98	DINOPHYSIS ACUMINATA	5.67
WF987	F24	WF987189	7.19	6/17/98	DINOPHYSIS NORVEGICA	NA
WF987	F24	WF987189	7.19	6/17/98	DISTEPHANUS SPECULUM	0.60
WF987	F24	WF987189	7.19	6/17/98	PROTOPERIDINIUM BREVIPES	28.42
WF987	F24	WF987189	7.19	6/17/98	PROTOPERIDINIUM DEPRESSUM	663.48
WF987	F24	WF987189	7.19	6/17/98	PROTOPERIDINIUM SPP.	47.36
WF987	F24	WF987189	7.19	6/17/98	PROTOPERIDINIUM TROCHOIDIUM	140.65
WF987	F24	WF987189	7.19	6/17/98	THECATE DINOFLAGELLATE SPP.	NA
WF987	F24	WF98718B	1.51	6/17/98	ALEXANDRIUM TAMARENSE	6681.27
WF987	F24	WF98718B	1.51	6/17/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	1083.77
WF987	F24	WF98718B	1.51	6/17/98	CERATAULINA PELAGICA	466282.48
WF987	F24	WF98718B	1.51	6/17/98	CERATIUM FUSUS	48238.81
WF987	F24	WF98718B	1.51	6/17/98	CERATIUM LINEATUM	31180.23
WF987	F24	WF98718B	1.51	6/17/98	CHAETOCEROS COMPRESSUS	221556.41
WF987	F24	WF98718B	1.51	6/17/98	CHAETOCEROS DECIPIENS	36431.25
WF987	F24	WF98718B	1.51	6/17/98	CHAETOCEROS SP. GROUP 2 DIAM 10-30 MICRONS	66369.73
WF987	F24	WF98718B	1.51	6/17/98	CHAETOCEROS SPP.<(10UM)	164757.33
WF987	F24	WF98718B	1.51	6/17/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	3797.10
WF987	F24	WF98718B	1.51	6/17/98	CRYPTOMONAS SP. GROUP 2 LENGTH >10 MICRONS	2709.42
WF987	F24	WF98718B	1.51	6/17/98	CYLINDROTHECA CLOSTERIUM	9973.65
WF987	F24	WF98718B	1.51	6/17/98	GYMNODINIUM SP. GROUP 2 21-40UM W 21-50UM L	516814.60
WF987	F24	WF98718B	1.51	6/17/98	GYRODINIUM SP. GROUP 1 5-20UM W 10-20UM L	3499.09
WF987	F24	WF98718B	1.51	6/17/98	GYRODINIUM SPIRALE	142181.72

Survey	Sta.	Sample Number	Depth (m)	Sampling Date	Plankton	Estimated Carbon Equivalence (ng Carbon/L)
WF987	F24	WF98718B	1.51	6/17/98	HETEROCAPSA ROTUNDATA	688.60
WF987	F24	WF98718B	1.51	6/17/98	HETEROCAPSA TRIQUETRA	36969.36
WF987	F24	WF98718B	1.51	6/17/98	LEPTOCYLINDRUS MINIMUS	5673.15
WF987	F24	WF98718B	1.51	6/17/98	PROBOSCIA ALATA	133297.57
WF987	F24	WF98718B	1.51	6/17/98	PSEUDONITZSCHIA DELICATISSIMA	23895.69
WF987	F24	WF98718B	1.51	6/17/98	RHIZOLENIA FRAGILISSIMA	10827.56
WF987	F24	WF98718B	1.51	6/17/98	SKELETONEMA COSTATUM GREV+CLEVE	387127.75
WF987	F24	WF98718B	1.51	6/17/98	THALASSIONEMA NITZSCHIOIDES	6801.26
WF987	F24	WF98718B	1.51	6/17/98	THALASSIOSIRA SP. GROUP 2 DIAM >20 MICRONS	17244.41
WF987	F24	WF98718B	1.51	6/17/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	110594.75
WF987	F24	WF98718B	1.51	6/17/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	12324.42
WF987	F24	WF98718B	1.51	6/17/98	ALEXANDRIUM TAMARENSE	0.64
WF987	F24	WF98718B	1.51	6/17/98	CERATIUM FUSUS	440.24
WF987	F24	WF98718B	1.51	6/17/98	CERATIUM LINEATUM	1327.95
WF987	F24	WF98718B	1.51	6/17/98	CERATIUM LONGIPES	9145.82
WF987	F24	WF98718B	1.51	6/17/98	CERATIUM SPP.	934.42
WF987	F24	WF98718B	1.51	6/17/98	CERATIUM TRIPOS	6345.58
WF987	F24	WF98718B	1.51	6/17/98	DINOPHYSIS ACUMINATA	11.72
WF987	F24	WF98718B	1.51	6/17/98	DINOPHYSIS NORVEGICA	NA
WF987	F24	WF98718B	1.51	6/17/98	GYRODINIUM SP. GROUP 1 5-20UM W 10-20UM L	0.33
WF987	F24	WF98718B	1.51	6/17/98	PROTOPERIDINIUM BREVIPIES	17.62
WF987	F24	WF98718B	1.51	6/17/98	PROTOPERIDINIUM DEPRESSUM	673.13
WF987	F24	WF98718B	1.51	6/17/98	PROTOPERIDINIUM SPP.	78.30
WF987	F24	WF98718B	1.51	6/17/98	PROTOPERIDINIUM TROCHOIDIUM	767.36
WF987	F30	WF987198	5.97	6/17/98	CALYCOMONAS OVALIS	232.76
WF987	F30	WF987198	5.97	6/17/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	7777.03
WF987	F30	WF987198	5.97	6/17/98	CERATAULINA PELAGICA	521689.51
WF987	F30	WF987198	5.97	6/17/98	CHAETOCEROS COMPRESSUS	176114.90
WF987	F30	WF987198	5.97	6/17/98	CHAETOCEROS DECIPIENS	28110.54
WF987	F30	WF987198	5.97	6/17/98	CHAETOCEROS SOCIALIS	522741.04
WF987	F30	WF987198	5.97	6/17/98	CHAETOCEROS SP. GROUP 2 DIAM 10-30 MICRONS	58892.89
WF987	F30	WF987198	5.97	6/17/98	CHAETOCEROS SPP.(<10UM)	56894.80
WF987	F30	WF987198	5.97	6/17/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	26954.70
WF987	F30	WF987198	5.97	6/17/98	CRYPTOMONAS SP. GROUP 2 LENGTH >10 MICRONS	57700.55
WF987	F30	WF987198	5.97	6/17/98	CYLINDROTHECA CLOSTERIUM	4618.10
WF987	F30	WF987198	5.97	6/17/98	DINOPHYSIS NORVEGICA	NA
WF987	F30	WF987198	5.97	6/17/98	EBRIA TRIPARTITA	3679.68
WF987	F30	WF987198	5.97	6/17/98	EUTREPTIA/EUTREPTIELLA SPP.	NA
WF987	F30	WF987198	5.97	6/17/98	GRAMMATOPHORA MARINA	1457.14
WF987	F30	WF987198	5.97	6/17/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	93957.13
WF987	F30	WF987198	5.97	6/17/98	GYMNODINIUM SP. GROUP 2 21-40UM W 21-50UM L	119650.24
WF987	F30	WF987198	5.97	6/17/98	GYRODINIUM SPIRALE	65824.87
WF987	F30	WF987198	5.97	6/17/98	HETEROCAPSA TRIQUETRA	22820.59
WF987	F30	WF987198	5.97	6/17/98	PENNATE DIATOM SP. GROUP 2 10-30 MICRONS LENGTH	2969.71
WF987	F30	WF987198	5.97	6/17/98	PENNATE DIATOM SP. GROUP 3 31-60 MICRONS LENGTH	707.74
WF987	F30	WF987198	5.97	6/17/98	PROBOSCIA ALATA	20570.61
WF987	F30	WF987198	5.97	6/17/98	PROROCENTRUM MINIMUM	1162.15
WF987	F30	WF987198	5.97	6/17/98	PROTOPERIDINIUM SP. GROUP 1 10-30W 10-40L	5916.64
WF987	F30	WF987198	5.97	6/17/98	PSEUDONITZSCHIA DELICATISSIMA	1896.48
WF987	F30	WF987198	5.97	6/17/98	PYRAMIMONAS SP. GROUP 1 10-20 MICRONS LENGTH	NA

Survey	Sta.	Sample Number	Depth (m)	Sampling Date	Plankton	Estimated Carbon Equivalence (ng Carbon/L)
WF987	F30	WF987198	5.97	6/17/98	RHIZOLENIA FRAGILISSIMA	10025.52
WF987	F30	WF987198	5.97	6/17/98	SKELETONEMA COSTATUM GREV+CLEVE	36941.87
WF987	F30	WF987198	5.97	6/17/98	THALASSIONEMA NITZSCHIOIDES	2518.98
WF987	F30	WF987198	5.97	6/17/98	THALASSIOSIRA SP. GROUP 2 DIAM >20 MICRONS	23950.57
WF987	F30	WF987198	5.97	6/17/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	128788.48
WF987	F30	WF987198	5.97	6/17/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	22823.01
WF987	F30	WF987198	5.97	6/17/98	ATHECATE DINOFLAGELLATE	NA
WF987	F30	WF987198	5.97	6/17/98	CERATIUM FUSUS	205.92
WF987	F30	WF987198	5.97	6/17/98	CERATIUM LINEATUM	99.83
WF987	F30	WF987198	5.97	6/17/98	CERATIUM LONGIPES	1597.08
WF987	F30	WF987198	5.97	6/17/98	CERATIUM SPP.	542.57
WF987	F30	WF987198	5.97	6/17/98	CERATIUM TRIPOS	2066.67
WF987	F30	WF987198	5.97	6/17/98	DINOPHYSIS NORVEGICA	NA
WF987	F30	WF987198	5.97	6/17/98	EUGLENOID SPP.	NA
WF987	F30	WF987198	5.97	6/17/98	GYRODINIUM SP. GROUP 1 5-20UM W 10-20UM L	0.16
WF987	F30	WF987198	5.97	6/17/98	PROTOPERIDINIUM DEPRESSUM	279.87
WF987	F30	WF987198	5.97	6/17/98	PROTOPERIDINIUM PALLIDUM	139.37
WF987	F30	WF987198	5.97	6/17/98	PROTOPERIDINIUM SPP.	36.62
WF987	F30	WF987199	1.63	6/17/98	ASTERIONELLA FORMOSA	2265.67
WF987	F30	WF987199	1.63	6/17/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	5960.72
WF987	F30	WF987199	1.63	6/17/98	CERATAULINA PELAGICA	291426.55
WF987	F30	WF987199	1.63	6/17/98	CERATIUM TRIPOS	123609.92
WF987	F30	WF987199	1.63	6/17/98	CHAETOCEROS COMPRESSUS	158828.89
WF987	F30	WF987199	1.63	6/17/98	CHAETOCEROS DECIPIENS	36431.25
WF987	F30	WF987199	1.63	6/17/98	CHAETOCEROS SOCIALIS	375681.69
WF987	F30	WF987199	1.63	6/17/98	CHAETOCEROS SP. GROUP 2 DIAM 10-30 MICRONS	60838.92
WF987	F30	WF987199	1.63	6/17/98	CHAETOCEROS SPP. (<10UM)	10803.76
WF987	F30	WF987199	1.63	6/17/98	CHOANOFLLAGELLATE SPP.	4653.61
WF987	F30	WF987199	1.63	6/17/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	35228.61
WF987	F30	WF987199	1.63	6/17/98	CRYPTOMONAS SP. GROUP 2 LENGTH >10 MICRONS	24384.75
WF987	F30	WF987199	1.63	6/17/98	CYCLOTELLA SP. GROUP 2 DIAM 10-30 MICRONS	44177.52
WF987	F30	WF987199	1.63	6/17/98	EUTREPTIA/EUTREPTIELLA SPP.	NA
WF987	F30	WF987199	1.63	6/17/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	10497.28
WF987	F30	WF987199	1.63	6/17/98	GYRODINIUM SPIRALE	142181.72
WF987	F30	WF987199	1.63	6/17/98	HETEROCAPSA ROTUNDATA	4820.22
WF987	F30	WF987199	1.63	6/17/98	MERISMOPEDIA SPP.	112.16
WF987	F30	WF987199	1.63	6/17/98	PENNATE DIATOM SP. GROUP 2 10-30 MICRONS LENGTH	3207.28
WF987	F30	WF987199	1.63	6/17/98	PSEUDONITZSCHIA DELICATISSIMA	682.73
WF987	F30	WF987199	1.63	6/17/98	PYRAMIMONAS SP. GROUP 1 10-20 MICRONS LENGTH	NA
WF987	F30	WF987199	1.63	6/17/98	SKELETONEMA COSTATUM GREV+CLEVE	62339.41
WF987	F30	WF987199	1.63	6/17/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	105166.78
WF987	F30	WF987199	1.63	6/17/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	12324.42
WF987	F30	WF987199	1.63	6/17/98	ATHECATE DINOFLAGELLATE	NA
WF987	F30	WF987199	1.63	6/17/98	CERATIUM FUSUS	133.14
WF987	F30	WF987199	1.63	6/17/98	CERATIUM LINEATUM	525.90
WF987	F30	WF987199	1.63	6/17/98	CERATIUM LONGIPES	934.25
WF987	F30	WF987199	1.63	6/17/98	CERATIUM SPP.	129.93
WF987	F30	WF987199	1.63	6/17/98	CERATIUM TRIPOS	1288.83
WF987	F30	WF987199	1.63	6/17/98	DINOPHYSIS ACUMINATA	11.34
WF987	F30	WF987199	1.63	6/17/98	DINOPHYSIS NORVEGICA	NA

Survey	Sta.	Sample Number	Depth (m)	Sampling Date	Plankton	Estimated Carbon Equivalence (ng Carbon/L)
WF987	F30	WF987199	1.63	6/17/98	GYRODINIUM SP. GROUP 1 5-20UM W 10-20UM L	3.49
WF987	F30	WF987199	1.63	6/17/98	MESODINIUM RUBRUM	NA
WF987	F30	WF987199	1.63	6/17/98	PROTOPERIDINIUM BREVIPES	37.30
WF987	F30	WF987199	1.63	6/17/98	PROTOPERIDINIUM DEPRESSUM	1326.95
WF987	F30	WF987199	1.63	6/17/98	PROTOPERIDINIUM PYRIFORME	NA
WF987	F30	WF987199	1.63	6/17/98	PROTOPERIDINIUM SPP.	173.65
WF987	F30	WF987199	1.63	6/17/98	PROTOPERIDINIUM TROCHOIDIUM	158.23
WF987	F30	WF987199	1.63	6/17/98	THECATE DINOFLAGELLATE SPP.	NA
WF987	N16	WF9871D5	19.53	6/18/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	6773.54
WF987	N16	WF9871D5	19.53	6/18/98	CERATAULINA PELAGICA	80951.82
WF987	N16	WF9871D5	19.53	6/18/98	CERATIUM FUSUS	22332.78
WF987	N16	WF9871D5	19.53	6/18/98	CERATIUM LINEATUM	28870.58
WF987	N16	WF9871D5	19.53	6/18/98	CERATIUM LONGIPES	74232.33
WF987	N16	WF9871D5	19.53	6/18/98	CERATIUM TRIPOS	457748.61
WF987	N16	WF9871D5	19.53	6/18/98	CHAETOCEROS COMPRESSUS	104507.74
WF987	N16	WF9871D5	19.53	6/18/98	CHAETOCEROS SOCIALIS	101857.63
WF987	N16	WF9871D5	19.53	6/18/98	CHAETOCEROS SP. GROUP 2 DIAM 10-30 MICRONS	58892.89
WF987	N16	WF9871D5	19.53	6/18/98	CHAETOCEROS SPP. (<10UM)	260715.72
WF987	N16	WF9871D5	19.53	6/18/98	CHOANOFLLAGELLATE SPP.	1846.67
WF987	N16	WF9871D5	19.53	6/18/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	1562.59
WF987	N16	WF9871D5	19.53	6/18/98	DINOPHYSIS NORVEGICA	NA
WF987	N16	WF9871D5	19.53	6/18/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	12959.60
WF987	N16	WF9871D5	19.53	6/18/98	GYMNODINIUM SP. GROUP 2 21-40UM W 21-50UM L	119633.01
WF987	N16	WF9871D5	19.53	6/18/98	LEPTOCYLINDRUS MINIMUS	525.37
WF987	N16	WF9871D5	19.53	6/18/98	PENNATE DIATOM SP. GROUP 2 10-30 MICRONS LENGTH	35636.49
WF987	N16	WF9871D5	19.53	6/18/98	PROBOSCIA ALATA	61711.84
WF987	N16	WF9871D5	19.53	6/18/98	PROTOPERIDINIUM DEPRESSUM	1456712.21
WF987	N16	WF9871D5	19.53	6/18/98	PSEUDONITZSCHIA DELICATISSIMA	3160.81
WF987	N16	WF9871D5	19.53	6/18/98	RHIZOLENIA DELICATULA	1707.52
WF987	N16	WF9871D5	19.53	6/18/98	RHIZOLENIA FRAGILISSIMA	7520.22
WF987	N16	WF9871D5	19.53	6/18/98	SCRIPPSIELLA TROCHOIDEA	5308.25
WF987	N16	WF9871D5	19.53	6/18/98	SKELETONEMA COSTATUM GREV+CLEVE	1010.27
WF987	N16	WF9871D5	19.53	6/18/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	54656.57
WF987	N16	WF9871D5	19.53	6/18/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	3803.83
WF987	N16	WF9871D5	19.53	6/18/98	ATHECATE DINOFLAGELLATE	NA
WF987	N16	WF9871D5	19.53	6/18/98	CERATIUM FUSUS	857.41
WF987	N16	WF9871D5	19.53	6/18/98	CERATIUM LINEATUM	1365.43
WF987	N16	WF9871D5	19.53	6/18/98	CERATIUM LONGIPES	6298.81
WF987	N16	WF9871D5	19.53	6/18/98	CERATIUM SPP.	622.08
WF987	N16	WF9871D5	19.53	6/18/98	CERATIUM TRIPOS	5556.36
WF987	N16	WF9871D5	19.53	6/18/98	DINOPHYSIS NORVEGICA	NA
WF987	N16	WF9871D5	19.53	6/18/98	GYRODINIUM SP. GROUP 1 5-20UM W 10-20UM L	0.45
WF987	N16	WF9871D5	19.53	6/18/98	PROTOPERIDINIUM BREVIPES	14.92
WF987	N16	WF9871D5	19.53	6/18/98	PROTOPERIDINIUM DEPRESSUM	4154.57
WF987	N16	WF9871D5	19.53	6/18/98	PROTOPERIDINIUM SPP.	152.50
WF987	N16	WF9871D5	19.53	6/18/98	PROTOPERIDINIUM TROCHOIDIUM	23.63
WF987	N16	WF9871D7	1.51	6/18/98	CALYCOMONAS WULFFII	75.77
WF987	N16	WF9871D7	1.51	6/18/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	501.74
WF987	N16	WF9871D7	1.51	6/18/98	CERATAULINA PELAGICA	29982.16
WF987	N16	WF9871D7	1.51	6/18/98	CERATIUM FUSUS	29772.75
WF987	N16	WF9871D7	1.51	6/18/98	CHAETOCEROS SP. GROUP 2 DIAM 10-30 MICRONS	46090.09

Survey	Sta.	Sample Number	Depth (m)	Sampling Date	Plankton	Estimated Carbon Equivalence (ng Carbon/L)
WF987	N16	WF9871D7	1.51	6/18/98	CHAETOCEROS SPP.<(10UM)	12087.54
WF987	N16	WF9871D7	1.51	6/18/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	585.97
WF987	N16	WF9871D7	1.51	6/18/98	CYLINDROTHECA CLOSTERIUM	3848.41
WF987	N16	WF9871D7	1.51	6/18/98	EBRIA TRIPARTITA	2453.12
WF987	N16	WF9871D7	1.51	6/18/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	31319.04
WF987	N16	WF9871D7	1.51	6/18/98	GYMNODINIUM SP. GROUP 2 21-40UM W 21-50UM L	19941.71
WF987	N16	WF9871D7	1.51	6/18/98	LEPTOCYLINDRUS DANICUS	5505.60
WF987	N16	WF9871D7	1.51	6/18/98	LEPTOCYLINDRUS MINIMUS	700.49
WF987	N16	WF9871D7	1.51	6/18/98	PROBOSCIA ALATA	137137.41
WF987	N16	WF9871D7	1.51	6/18/98	PSEUDONITZSCHIA DELICATISSIMA	10221.41
WF987	N16	WF9871D7	1.51	6/18/98	SCRIPPSIELLA TROCHOIDEA	10616.49
WF987	N16	WF9871D7	1.51	6/18/98	SKELETONEMA COSTATUM GREV+CLEVE	42329.23
WF987	N16	WF9871D7	1.51	6/18/98	THALASSIONEMA NITZSCHIOIDES	5457.80
WF987	N16	WF9871D7	1.51	6/18/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	28689.47
WF987	N16	WF9871D7	1.51	6/18/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	26626.84
WF987	N16	WF9871D7	1.51	6/18/98	ATHECATE DINOFLAGELLATE	NA
WF987	N16	WF9871D7	1.51	6/18/98	CERATIUM FUSUS	170.12
WF987	N16	WF9871D7	1.51	6/18/98	CERATIUM LINEATUM	119.52
WF987	N16	WF9871D7	1.51	6/18/98	CERATIUM LONGIPES	3097.78
WF987	N16	WF9871D7	1.51	6/18/98	CERATIUM SPP.	259.85
WF987	N16	WF9871D7	1.51	6/18/98	CERATIUM TRIPOS	2899.86
WF987	N16	WF9871D7	1.51	6/18/98	DINOPHYSIS NORVEGICA	NA
WF987	N16	WF9871D7	1.51	6/18/98	DISTEPHANUS SPECULUM	0.30
WF987	N16	WF9871D7	1.51	6/18/98	GYRODINIUM SP. GROUP 1 5-20UM W 10-20UM L	0.13
WF987	N16	WF9871D7	1.51	6/18/98	MESODINIUM RUBRUM	NA
WF987	N16	WF9871D7	1.51	6/18/98	PROTOPERIDINIUM BREVIPEDES	3.55
WF987	N16	WF9871D7	1.51	6/18/98	PROTOPERIDINIUM DEPRESSUM	241.26
WF987	N16	WF9871D7	1.51	6/18/98	PROTOPERIDINIUM SPP.	71.04
WF987	N16	WF9871D7	1.51	6/18/98	PROTOPERIDINIUM TROCHOIDIUM	79.11
WF987	F25	WF9871EF	2.54	6/18/98	CALYCOMONAS WULFFII	238.69
WF987	F25	WF9871EF	2.54	6/18/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	6585.39
WF987	F25	WF9871EF	2.54	6/18/98	CERATAULINA PELAGICA	396663.92
WF987	F25	WF9871EF	2.54	6/18/98	CERATIUM LINEATUM	60619.49
WF987	F25	WF9871EF	2.54	6/18/98	CERATIUM LONGIPES	155887.89
WF987	F25	WF9871EF	2.54	6/18/98	CHAETOCEROS COMPRESSUS	877738.60
WF987	F25	WF9871EF	2.54	6/18/98	CHAETOCEROS DECIPIENS	118047.25
WF987	F25	WF9871EF	2.54	6/18/98	CHAETOCEROS LACINIOSUS	36514.46
WF987	F25	WF9871EF	2.54	6/18/98	CHAETOCEROS SOCIALIS	201793.42
WF987	F25	WF9871EF	2.54	6/18/98	CHAETOCEROS SP. GROUP 2 DIAM 10-30 MICRONS	150560.97
WF987	F25	WF9871EF	2.54	6/18/98	CHAETOCEROS SPP.<(10UM)	105693.03
WF987	F25	WF9871EF	2.54	6/18/98	CHOANOFLLAGELLATE SPP.	3231.67
WF987	F25	WF9871EF	2.54	6/18/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	16202.12
WF987	F25	WF9871EF	2.54	6/18/98	CRYPTOMONAS SP. GROUP 2 LENGTH >10 MICRONS	7902.47
WF987	F25	WF9871EF	2.54	6/18/98	CYLINDROTHECA CLOSTERIUM	7273.50
WF987	F25	WF9871EF	2.54	6/18/98	DINOPHYSIS NORVEGICA	NA
WF987	F25	WF9871EF	2.54	6/18/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	105458.77
WF987	F25	WF9871EF	2.54	6/18/98	GYMNODINIUM SP. GROUP 2 21-40UM W 21-50UM L	62816.38
WF987	F25	WF9871EF	2.54	6/18/98	LEPTOCYLINDRUS MINIMUS	551.64
WF987	F25	WF9871EF	2.54	6/18/98	PENNATE DIATOM SP. GROUP 2 10-30 MICRONS LENGTH	3118.19
WF987	F25	WF9871EF	2.54	6/18/98	PROBOSCIA ALATA	43198.29
WF987	F25	WF9871EF	2.54	6/18/98	PSEUDONITZSCHIA DELICATISSIMA	27878.30

Survey	Sta.	Sample Number	Depth (m)	Sampling Date	Plankton	Estimated Carbon Equivalence (ng Carbon/L)
WF987	F25	WF9871EF	2.54	6/18/98	PSEUDONITZSCHIA PUNGENS	2389.15
WF987	F25	WF9871EF	2.54	6/18/98	PYRAMIMONAS SP. GROUP 1 10-20 MICRONS LENGTH	NA
WF987	F25	WF9871EF	2.54	6/18/98	RHIZOLENIA FRAGILISSIMA	5264.16
WF987	F25	WF9871EF	2.54	6/18/98	SCRIPPSIELLA TROCHOIDEA	11147.32
WF987	F25	WF9871EF	2.54	6/18/98	SKELETONEMA COSTATUM GREV+CLEVE	203642.08
WF987	F25	WF9871EF	2.54	6/18/98	THALASSIONEMA NITZSCHIOIDES	33061.66
WF987	F25	WF9871EF	2.54	6/18/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	136547.20
WF987	F25	WF9871EF	2.54	6/18/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	31952.21
WF987	F25	WF9871EF	2.54	6/18/98	ATHECATE DINOFLAGELLATE	NA
WF987	F25	WF9871EF	2.54	6/18/98	CERATIUM FUSUS	1011.85
WF987	F25	WF9871EF	2.54	6/18/98	CERATIUM LINEATUM	1078.58
WF987	F25	WF9871EF	2.54	6/18/98	CERATIUM LONGIPES	6431.57
WF987	F25	WF9871EF	2.54	6/18/98	CERATIUM SPP.	436.55
WF987	F25	WF9871EF	2.54	6/18/98	CERATIUM TRIPOS	5504.05
WF987	F25	WF9871EF	2.54	6/18/98	DINOPHYSIS NORVEGICA	NA
WF987	F25	WF9871EF	2.54	6/18/98	GYRODINIUM SP. GROUP 1 5-20UM W 10-20UM L	2.58
WF987	F25	WF9871EF	2.54	6/18/98	PROTOPERIDINIUM BREVIPIES	29.84
WF987	F25	WF9871EF	2.54	6/18/98	PROTOPERIDINIUM DEPRESSUM	1737.10
WF987	F25	WF9871EF	2.54	6/18/98	PROTOPERIDINIUM PALLIDUM	96.12
WF987	F25	WF9871EF	2.54	6/18/98	PROTOPERIDINIUM SPP.	113.66
WF987	F25	WF9871EF	2.54	6/18/98	PROTOPERIDINIUM TROCHOIDIUM	248.94
WF987	F25	WF9871EF	2.54	6/18/98	THECATE DINOFLAGELLATE SPP.	NA
WF987	F25	WF9871F1	1.28	6/18/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	1565.44
WF987	F25	WF9871F1	1.28	6/18/98	CERATAULINA PELAGICA	523772.79
WF987	F25	WF9871F1	1.28	6/18/98	CERATIUM TRIPOS	119031.78
WF987	F25	WF9871F1	1.28	6/18/98	CHAETOCEROS COMPRESSUS	450789.21
WF987	F25	WF9871F1	1.28	6/18/98	CHAETOCEROS SOCIALIS	55964.04
WF987	F25	WF9871F1	1.28	6/18/98	CHAETOCEROS SP. GROUP 2 DIAM 10-30 MICRONS	250320.41
WF987	F25	WF9871F1	1.28	6/18/98	CHAETOCEROS SPP.(<10UM)	32511.31
WF987	F25	WF9871F1	1.28	6/18/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	12594.48
WF987	F25	WF9871F1	1.28	6/18/98	CRYPTOMONAS SP. GROUP 2 LENGTH >10 MICRONS	5218.14
WF987	F25	WF9871F1	1.28	6/18/98	DINOPHYSIS NORVEGICA	NA
WF987	F25	WF9871F1	1.28	6/18/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	114562.90
WF987	F25	WF9871F1	1.28	6/18/98	GYMNODINIUM SP. GROUP 2 21-40UM W 21-50UM L	31109.06
WF987	F25	WF9871F1	1.28	6/18/98	GYRODINIUM SPIRALE	547584.07
WF987	F25	WF9871F1	1.28	6/18/98	HETEROCAPSA ROTUNDATA	3315.49
WF987	F25	WF9871F1	1.28	6/18/98	HETEROCAPSA TRIQUETRA	23733.42
WF987	F25	WF9871F1	1.28	6/18/98	LEPTOCYLINDRUS MINIMUS	2185.21
WF987	F25	WF9871F1	1.28	6/18/98	PENNATE DIATOM SP. GROUP 2 10-30 MICRONS LENGTH	3088.50
WF987	F25	WF9871F1	1.28	6/18/98	PSEUDONITZSCHIA DELICATISSIMA	52595.80
WF987	F25	WF9871F1	1.28	6/18/98	PSEUDONITZSCHIA PUNGENS	1577.37
WF987	F25	WF9871F1	1.28	6/18/98	PYRAMIMONAS SP. GROUP 1 10-20 MICRONS LENGTH	NA
WF987	F25	WF9871F1	1.28	6/18/98	SCRIPPSIELLA TROCHOIDEA	11041.15
WF987	F25	WF9871F1	1.28	6/18/98	SKELETONEMA COSTATUM GREV+CLEVE	602706.68
WF987	F25	WF9871F1	1.28	6/18/98	THALASSIONEMA NITZSCHIOIDES	30127.05
WF987	F25	WF9871F1	1.28	6/18/98	THALASSIOSIRA SP. GROUP 2 DIAM >20 MICRONS	8304.06
WF987	F25	WF9871F1	1.28	6/18/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	102578.45
WF987	F25	WF9871F1	1.28	6/18/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	23735.93
WF987	F25	WF9871F1	1.28	6/18/98	ATHECATE DINOFLAGELLATE	NA
WF987	F25	WF9871F1	1.28	6/18/98	CERATIUM FUSUS	994.10

Survey	Sta.	Sample Number	Depth (m)	Sampling Date	Plankton	Estimated Carbon Equivalence (ng Carbon/L)
WF987	F25	WF9871F1	1.28	6/18/98	CERATIUM LINEATUM	3373.42
WF987	F25	WF9871F1	1.28	6/18/98	CERATIUM LONGIPES	8555.76
WF987	F25	WF9871F1	1.28	6/18/98	CERATIUM SPP.	1309.65
WF987	F25	WF9871F1	1.28	6/18/98	CERATIUM TRIPOS	11326.52
WF987	F25	WF9871F1	1.28	6/18/98	DINOPHYSIS ACUMINATA	16.44
WF987	F25	WF9871F1	1.28	6/18/98	DINOPHYSIS NORVEGICA	NA
WF987	F25	WF9871F1	1.28	6/18/98	DISTEPHANUS SPECULUM	2.16
WF987	F25	WF9871F1	1.28	6/18/98	GYRODINIUM SP. GROUP 1 5-20UM W 10-20UM L	12.23
WF987	F25	WF9871F1	1.28	6/18/98	PROTOPERIDIUM BREVIPES	6.39
WF987	F25	WF9871F1	1.28	6/18/98	PROTOPERIDIUM DEPRESSUM	2895.17
WF987	F25	WF9871F1	1.28	6/18/98	PROTOPERIDIUM SPP.	151.55
WF987	F25	WF9871F1	1.28	6/18/98	PROTOPERIDIUM TROCHOIDIUM	999.99
WF987	F25	WF9871F1	1.28	6/18/98	THECATE DINOFLAGELLATE SPP.	NA
WF987	F23	WF987209	9.51	6/21/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	1053.66
WF987	F23	WF987209	9.51	6/21/98	CERATAULINA PELAGICA	491036.99
WF987	F23	WF987209	9.51	6/21/98	CERATIUM LONGIPES	311730.89
WF987	F23	WF987209	9.51	6/21/98	CERATIUM TRIPOS	240318.02
WF987	F23	WF987209	9.51	6/21/98	CHAETOCEROS COMPRESSUS	150375.03
WF987	F23	WF987209	9.51	6/21/98	CHAETOCEROS DECIPIENS	94437.80
WF987	F23	WF987209	9.51	6/21/98	CHAETOCEROS SOCIALIS	375335.76
WF987	F23	WF987209	9.51	6/21/98	CHAETOCEROS SP. GROUP 2 DIAM 10-30 MICRONS	107543.55
WF987	F23	WF987209	9.51	6/21/98	CHAETOCEROS SPP.(<10UM)	76151.50
WF987	F23	WF987209	9.51	6/21/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	2461.08
WF987	F23	WF987209	9.51	6/21/98	CRYPTOMONAS SP. GROUP 2 LENGTH >10 MICRONS	3951.23
WF987	F23	WF987209	9.51	6/21/98	CYLINDROTHECA CLOSTERIUM	19393.22
WF987	F23	WF987209	9.51	6/21/98	DINOPHYSIS NORVEGICA	NA
WF987	F23	WF987209	9.51	6/21/98	EUTREPTIA/EUTREPTIELLA SPP.	NA
WF987	F23	WF987209	9.51	6/21/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	40822.75
WF987	F23	WF987209	9.51	6/21/98	GYMNODINIUM SP. GROUP 2 21-40UM W 21-50UM L	94224.56
WF987	F23	WF987209	9.51	6/21/98	HETEROCAPSA TRIQUETRA	5991.27
WF987	F23	WF987209	9.51	6/21/98	PENNATE DIATOM SP. GROUP 2 10-30 MICRONS LENGTH	1039.40
WF987	F23	WF987209	9.51	6/21/98	PROBOSCIA ALATA	86396.57
WF987	F23	WF987209	9.51	6/21/98	PROTOPERIDIUM SP. GROUP 1 10-30W 10-40L	12424.95
WF987	F23	WF987209	9.51	6/21/98	PSEUDONITZSCHIA DELICATISSIMA	51110.22
WF987	F23	WF987209	9.51	6/21/98	RHIZOLENIA DELICATULA	14341.09
WF987	F23	WF987209	9.51	6/21/98	RHIZOLENIA FRAGILISSIMA	26320.78
WF987	F23	WF987209	9.51	6/21/98	SKELETONEMA COSTATUM GREV+CLEVE	63638.15
WF987	F23	WF987209	9.51	6/21/98	THALASSIONEMA NITZSCHIOIDES	27771.80
WF987	F23	WF987209	9.51	6/21/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	52112.21
WF987	F23	WF987209	9.51	6/21/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	19970.13
WF987	F23	WF987209	9.51	6/21/98	ATHECATE DINOFLAGELLATE	NA
WF987	F23	WF987209	9.51	6/21/98	CERATIUM FUSUS	681.67
WF987	F23	WF987209	9.51	6/21/98	CERATIUM LINEATUM	2374.40
WF987	F23	WF987209	9.51	6/21/98	CERATIUM LONGIPES	1636.41
WF987	F23	WF987209	9.51	6/21/98	CERATIUM SPP.	731.74
WF987	F23	WF987209	9.51	6/21/98	CERATIUM TRIPOS	2717.15
WF987	F23	WF987209	9.51	6/21/98	DINOPHYSIS ACUMINATA	38.70
WF987	F23	WF987209	9.51	6/21/98	DINOPHYSIS NORVEGICA	NA
WF987	F23	WF987209	9.51	6/21/98	DISTEPHANUS SPECULUM	0.38
WF987	F23	WF987209	9.51	6/21/98	PROROCENTRUM MINIMUM	0.25
WF987	F23	WF987209	9.51	6/21/98	PROTOPERIDIUM BREVIPES	43.19

Survey	Sta.	Sample Number	Depth (m)	Sampling Date	Plankton	Estimated Carbon Equivalence (ng Carbon/L)
WF987	F23	WF987209	9.51	6/21/98	PROTOPIERIDIUM PALLIDUM	102.52
WF987	F23	WF987209	9.51	6/21/98	PROTOPIERIDIUM SPP.	101.03
WF987	F23	WF987209	9.51	6/21/98	PROTOPIERIDIUM TROCHOIDIUM	459.07
WF987	F23	WF987209	9.51	6/21/98	THECATE DINOFLAGELLATE SPP.	NA
WF987	F23	WF98720B	1.66	6/21/98	AMPHIDIUM SPP.	6681.27
WF987	F23	WF98720B	1.66	6/21/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	4335.07
WF987	F23	WF98720B	1.66	6/21/98	CERATAULINA PELAGICA	543996.23
WF987	F23	WF98720B	1.66	6/21/98	CERATIUM FUSUS	192927.44
WF987	F23	WF98720B	1.66	6/21/98	CERATIUM LINEATUM	218261.60
WF987	F23	WF98720B	1.66	6/21/98	CERATIUM LONGIPES	320683.67
WF987	F23	WF98720B	1.66	6/21/98	CERATIUM TRIPOS	247184.25
WF987	F23	WF98720B	1.66	6/21/98	CHAETOCEROS COMPRESSUS	217344.80
WF987	F23	WF98720B	1.66	6/21/98	CHAETOCEROS DECIPIENS	145704.03
WF987	F23	WF98720B	1.66	6/21/98	CHAETOCEROS SOCIALIS	50859.27
WF987	F23	WF98720B	1.66	6/21/98	CHAETOCEROS SP. GROUP 2 DIAM 10-30 MICRONS	16592.43
WF987	F23	WF98720B	1.66	6/21/98	CHAETOCEROS SPP.(<10UM)	73600.61
WF987	F23	WF98720B	1.66	6/21/98	CHAETOCEROS SUBTILIS	7281.26
WF987	F23	WF98720B	1.66	6/21/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	5695.64
WF987	F23	WF98720B	1.66	6/21/98	CYLINDROTHECA CLOSTERIUM	4986.83
WF987	F23	WF98720B	1.66	6/21/98	DINOPHYSIS NORVEGICA	NA
WF987	F23	WF98720B	1.66	6/21/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	108471.88
WF987	F23	WF98720B	1.66	6/21/98	GYMNODINIUM SP. GROUP 2 21-40UM W 21-50UM L	452277.90
WF987	F23	WF98720B	1.66	6/21/98	GYRODINIUM SPIRALE	568726.89
WF987	F23	WF98720B	1.66	6/21/98	HETEROCAPSA TRIQUETRA	61615.60
WF987	F23	WF98720B	1.66	6/21/98	LEPTOCYLINDRUS DANICUS	11892.09
WF987	F23	WF98720B	1.66	6/21/98	LEPTOCYLINDRUS MINIMUS	2553.28
WF987	F23	WF98720B	1.66	6/21/98	PROBOSCIA ALATA	44432.52
WF987	F23	WF98720B	1.66	6/21/98	PROROCENTRUM MICANS	20156.63
WF987	F23	WF98720B	1.66	6/21/98	PSEUDONITZSCHIA DELICATISSIMA	58715.12
WF987	F23	WF98720B	1.66	6/21/98	PSEUDONITZSCHIA PUNGENS	4914.12
WF987	F23	WF98720B	1.66	6/21/98	RHIZOLENIA DELICATULA	14750.84
WF987	F23	WF98720B	1.66	6/21/98	RHIZOLENIA FRAGILISSIMA	43310.24
WF987	F23	WF98720B	1.66	6/21/98	SCRIPPSIELLA TROCHOIDEA	22928.32
WF987	F23	WF98720B	1.66	6/21/98	SKELETONEMA COSTATUM GREV+CLEVE	337256.22
WF987	F23	WF98720B	1.66	6/21/98	THALASSIONEMA NITZSCHIOIDES	29929.84
WF987	F23	WF98720B	1.66	6/21/98	THALASSIOSIRA SP. GROUP 2 DIAM >20 MICRONS	8622.21
WF987	F23	WF98720B	1.66	6/21/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	122129.17
WF987	F23	WF98720B	1.66	6/21/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	65730.26
WF987	F23	WF98720B	1.66	6/21/98	CERATIUM FUSUS	2416.45
WF987	F23	WF98720B	1.66	6/21/98	CERATIUM LINEATUM	12337.66
WF987	F23	WF98720B	1.66	6/21/98	CERATIUM LONGIPES	3423.78
WF987	F23	WF98720B	1.66	6/21/98	CERATIUM SPP.	2118.05
WF987	F23	WF98720B	1.66	6/21/98	CERATIUM TRIPOS	15023.56
WF987	F23	WF98720B	1.66	6/21/98	DINOPHYSIS ACUMINATA	14.34
WF987	F23	WF98720B	1.66	6/21/98	DINOPHYSIS NORVEGICA	NA
WF987	F23	WF98720B	1.66	6/21/98	PROROCENTRUM MINIMUM	1.52
WF987	F23	WF98720B	1.66	6/21/98	PROTOPIERIDIUM BREVIPIES	11.72
WF987	F23	WF98720B	1.66	6/21/98	PROTOPIERIDIUM DEPRESSUM	955.41
WF987	F23	WF98720B	1.66	6/21/98	PROTOPIERIDIUM SPP.	114.61
WF987	F23	WF98720B	1.66	6/21/98	PROTOPIERIDIUM TROCHOIDIUM	835.44
WF987	N04	WF98721C	4.07	6/21/98	AMPHIDIUM SPP.	3340.64
WF987	N04	WF98721C	4.07	6/21/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	677.35

Survey	Sta.	Sample Number	Depth (m)	Sampling Date	Plankton	Estimated Carbon Equivalence (ng Carbon/L)
WF987	N04	WF98721C	4.07	6/21/98	CERATAULINA PELAGICA	7771.37
WF987	N04	WF98721C	4.07	6/21/98	CERATIUM FUSUS	24119.40
WF987	N04	WF98721C	4.07	6/21/98	CERATIUM LONGIPES	448957.13
WF987	N04	WF98721C	4.07	6/21/98	CHAETOCEROS COMPRESSUS	43057.19
WF987	N04	WF98721C	4.07	6/21/98	CHAETOCEROS CONVOLUTUS	NA
WF987	N04	WF98721C	4.07	6/21/98	CHAETOCEROS DECIPIENS	60710.01
WF987	N04	WF98721C	4.07	6/21/98	CHAETOCEROS SEPTENTRIONALIS	NA
WF987	N04	WF98721C	4.07	6/21/98	CHAETOCEROS SOCIALIS	6020.08
WF987	N04	WF98721C	4.07	6/21/98	CHAETOCEROS SP. GROUP 2 DIAM 10-30 MICRONS	11614.70
WF987	N04	WF98721C	4.07	6/21/98	CHAETOCEROS SPP.(<10UM)	3376.17
WF987	N04	WF98721C	4.07	6/21/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	2636.87
WF987	N04	WF98721C	4.07	6/21/98	CRYPTOMONAS SP. GROUP 2 LENGTH >10 MICRONS	677.35
WF987	N04	WF98721C	4.07	6/21/98	CYLINDROTHECA CLOSTERIUM	2493.41
WF987	N04	WF98721C	4.07	6/21/98	DINOPHYSIS NORVEGICA	NA
WF987	N04	WF98721C	4.07	6/21/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	20994.56
WF987	N04	WF98721C	4.07	6/21/98	GYRODINIUM SP. GROUP 2 21-40UM W 21-50UM L	64601.82
WF987	N04	WF98721C	4.07	6/21/98	GYRODINIUM SPIRALE	14218.17
WF987	N04	WF98721C	4.07	6/21/98	HETEROCAPSA TRIQUETRA	1232.49
WF987	N04	WF98721C	4.07	6/21/98	LEPTOCYLINDRUS DANICUS	4757.52
WF987	N04	WF98721C	4.07	6/21/98	LEPTOCYLINDRUS MINIMUS	85.11
WF987	N04	WF98721C	4.07	6/21/98	LICMOPHORA SPP.	149.25
WF987	N04	WF98721C	4.07	6/21/98	PENNATE DIATOM SP. GROUP 2 10-30 MICRONS LENGTH	2672.74
WF987	N04	WF98721C	4.07	6/21/98	PROBOSCIA ALATA	44432.52
WF987	N04	WF98721C	4.07	6/21/98	PSEUDONITZSCHIA DELICATISSIMA	2730.94
WF987	N04	WF98721C	4.07	6/21/98	RHIZOLENIA FRAGILISSIMA	4331.65
WF987	N04	WF98721C	4.07	6/21/98	SKELETONEMA COSTATUM GREV+CLEVE	4738.48
WF987	N04	WF98721C	4.07	6/21/98	THALASSIONEMA NITZSCHIOIDES	5441.00
WF987	N04	WF98721C	4.07	6/21/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	47833.92
WF987	N04	WF98721C	4.07	6/21/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	16432.56
WF987	N04	WF98721C	4.07	6/21/98	CERATIUM FUSUS	283.14
WF987	N04	WF98721C	4.07	6/21/98	CERATIUM LINEATUM	232.93
WF987	N04	WF98721C	4.07	6/21/98	CERATIUM LONGIPES	16170.39
WF987	N04	WF98721C	4.07	6/21/98	CERATIUM SPP.	753.57
WF987	N04	WF98721C	4.07	6/21/98	CERATIUM TRIPOS	3913.49
WF987	N04	WF98721C	4.07	6/21/98	DINOPHYSIS ACUMINATA	5.48
WF987	N04	WF98721C	4.07	6/21/98	DINOPHYSIS NORVEGICA	NA
WF987	N04	WF98721C	4.07	6/21/98	DISTEPHANUS SPECULUM	7.66
WF987	N04	WF98721C	4.07	6/21/98	GYRODINIUM SP. GROUP 1 5-20UM W 10-20UM L	0.16
WF987	N04	WF98721C	4.07	6/21/98	MESODINIUM RUBRUM	NA
WF987	N04	WF98721C	4.07	6/21/98	PROTOPERIDINIUM BREVIPIES	16.48
WF987	N04	WF98721C	4.07	6/21/98	PROTOPERIDINIUM DEPRESSUM	1119.47
WF987	N04	WF98721C	4.07	6/21/98	PROTOPERIDINIUM SPP.	73.25
WF987	N04	WF98721C	4.07	6/21/98	PROTOPERIDINIUM TROCHOIDIUM	18.35
WF987	N04	WF98721D	1.46	6/21/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	1329.62
WF987	N04	WF98721D	1.46	6/21/98	CERATIUM FUSUS	47345.50
WF987	N04	WF98721D	1.46	6/21/98	CERATIUM LINEATUM	122411.27
WF987	N04	WF98721D	1.46	6/21/98	CERATIUM LONGIPES	157372.54
WF987	N04	WF98721D	1.46	6/21/98	CERATIUM TRIPOS	242606.76
WF987	N04	WF98721D	1.46	6/21/98	CHAETOCEROS COMPRESSUS	172296.84
WF987	N04	WF98721D	1.46	6/21/98	CHAETOCEROS SOCIALIS	52965.97
WF987	N04	WF98721D	1.46	6/21/98	CHAETOCEROS SP. GROUP 2 DIAM 10-30 MICRONS	37998.72

Survey	Sta.	Sample Number	Depth (m)	Sampling Date	Plankton	Estimated Carbon Equivalence (ng Carbon/L)
WF987	N04	WF98721D	1.46	6/21/98	CHAETOCEROS SPP.($<10\mu\text{M}$)	11929.15
WF987	N04	WF98721D	1.46	6/21/98	CRYPTOMONAS SP. GROUP 1 LENGTH $<10\mu\text{M}$	3312.69
WF987	N04	WF98721D	1.46	6/21/98	CYLINDROTHECA CLOSTERIUM	4894.48
WF987	N04	WF98721D	1.46	6/21/98	DINOBRYON SPP.	961.75
WF987	N04	WF98721D	1.46	6/21/98	DINOPHYSIS NORVEGICA	NA
WF987	N04	WF98721D	1.46	6/21/98	EBRIA TRIPARTITA	3900.46
WF987	N04	WF98721D	1.46	6/21/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	20605.77
WF987	N04	WF98721D	1.46	6/21/98	GYMNODINIUM SP. GROUP 2 21-40UM W 21-50UM L	31707.31
WF987	N04	WF98721D	1.46	6/21/98	LEPTOCYLINDRUS DANICUS	16051.13
WF987	N04	WF98721D	1.46	6/21/98	LEPTOCYLINDRUS MINIMUS	278.44
WF987	N04	WF98721D	1.46	6/21/98	PENNATE DIATOM SP. GROUP 2 10-30 MICRONS LENGTH	3147.89
WF987	N04	WF98721D	1.46	6/21/98	PROBOSCIA ALATA	43609.70
WF987	N04	WF98721D	1.46	6/21/98	PROTOPERIDINIUM SP. GROUP 1 10-30W 10-40L	6271.64
WF987	N04	WF98721D	1.46	6/21/98	PSEUDONITZSCHIA DELICATISSIMA	67679.16
WF987	N04	WF98721D	1.46	6/21/98	PYRAMIMONAS SP. GROUP 1 10-20 MICRONS LENGTH	NA
WF987	N04	WF98721D	1.46	6/21/98	RHIZOLENIA FRAGILISSIMA	58457.19
WF987	N04	WF98721D	1.46	6/21/98	RHIZOLENIA SETIGERA	44751.76
WF987	N04	WF98721D	1.46	6/21/98	SCRIPPSIELLA TROCHOIDEA	5626.74
WF987	N04	WF98721D	1.46	6/21/98	SKELETONEMA COSTATUM GREV+CLEVE	150515.05
WF987	N04	WF98721D	1.46	6/21/98	THALASSIONEMA NITZSCHIOIDES	14687.79
WF987	N04	WF98721D	1.46	6/21/98	THALASSIOSIRA SP. GROUP 2 DIAM $>20\mu\text{M}$	25387.61
WF987	N04	WF98721D	1.46	6/21/98	UNID. MICRO-PHYTOFLAG LENGTH $<10\mu\text{M}$	55272.24
WF987	N04	WF98721D	1.46	6/21/98	UNID. MICRO-PHYTOFLAG LENGTH $>10\mu\text{M}$	12096.19
WF987	N04	WF98721D	1.46	6/21/98	ATHECATE DINOFLAGELLATE	NA
WF987	N04	WF98721D	1.46	6/21/98	CERATIUM FUSUS	5566.94
WF987	N04	WF98721D	1.46	6/21/98	CERATIUM LINEATUM	6224.76
WF987	N04	WF98721D	1.46	6/21/98	CERATIUM LONGIPES	23584.40
WF987	N04	WF98721D	1.46	6/21/98	CERATIUM SPP.	2270.06
WF987	N04	WF98721D	1.46	6/21/98	CERATIUM TRIPOS	23339.91
WF987	N04	WF98721D	1.46	6/21/98	DINOPHYSIS ACUMINATA	22.22
WF987	N04	WF98721D	1.46	6/21/98	DINOPHYSIS NORVEGICA	NA
WF987	N04	WF98721D	1.46	6/21/98	DISTEPHANUS SPECULUM	3.03
WF987	N04	WF98721D	1.46	6/21/98	GYRODINIUM SP. GROUP 1 5-20UM W 10-20UM L	0.68
WF987	N04	WF98721D	1.46	6/21/98	PROROCENTRUM MINIMUM	0.32
WF987	N04	WF98721D	1.46	6/21/98	PROTOPERIDINIUM DEPRESSUM	405.32
WF987	N04	WF98721D	1.46	6/21/98	PROTOPERIDINIUM PYRIFORME	NA
WF987	N04	WF98721D	1.46	6/21/98	PROTOPERIDINIUM SPP.	132.60
WF987	N04	WF98721D	1.46	6/21/98	PROTOPERIDINIUM TROCHOIDIUM	129.96
WF987	N04	WF98721D	1.46	6/21/98	THECATE DINOFLAGELLATE SPP.	NA
WF987	N18	WF987248	8.00	6/21/98	AMPHIDINIUM SPP.	334.11
WF987	N18	WF987248	8.00	6/21/98	CENTRIC DIATOM SP. GROUP 1 DIAM $<10\mu\text{M}$	338.68
WF987	N18	WF987248	8.00	6/21/98	CERATAULINA PELAGICA	58276.92
WF987	N18	WF987248	8.00	6/21/98	CERATIUM FUSUS	24119.40
WF987	N18	WF987248	8.00	6/21/98	CERATIUM LINEATUM	9354.07
WF987	N18	WF987248	8.00	6/21/98	CERATIUM LONGIPES	128273.47
WF987	N18	WF987248	8.00	6/21/98	CERATIUM TRIPOS	61796.06
WF987	N18	WF987248	8.00	6/21/98	CHAETOCEROS COMPRESSUS	14628.98
WF987	N18	WF987248	8.00	6/21/98	CHAETOCEROS CONVOLUTUS	NA
WF987	N18	WF987248	8.00	6/21/98	CHAETOCEROS SOCIALIS	1245.53
WF987	N18	WF987248	8.00	6/21/98	CHAETOCEROS SP. GROUP 2 DIAM 10-30 MICRONS	11614.70
WF987	N18	WF987248	8.00	6/21/98	CHAETOCEROS SPP.($<10\mu\text{M}$)	2025.70

Survey	Sta.	Sample Number	Depth (m)	Sampling Date	Plankton	Estimated Carbon Equivalence (ng Carbon/L)
WF987	N18	WF987248	8.00	6/21/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	369.16
WF987	N18	WF987248	8.00	6/21/98	DICTYOCHA SPECULUM	NA
WF987	N18	WF987248	8.00	6/21/98	DINOPHYSIS NORVEGICA	NA
WF987	N18	WF987248	8.00	6/21/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	12246.83
WF987	N18	WF987248	8.00	6/21/98	GYMNODINIUM SP. GROUP 2 21-40UM W 21-50UM L	54919.46
WF987	N18	WF987248	8.00	6/21/98	GYRODINIUM SP. GROUP 2 21-40UM W 21-50UM L	48451.37
WF987	N18	WF987248	8.00	6/21/98	HETEROCAPSA TRIQUETRA	3080.78
WF987	N18	WF987248	8.00	6/21/98	LEPTOCYLINDRUS MINIMUS	85.11
WF987	N18	WF987248	8.00	6/21/98	PENNATE DIATOM SP. GROUP 2 10-30 MICRONS LENGTH	160.39
WF987	N18	WF987248	8.00	6/21/98	PROBOSCIA ALATA	57762.28
WF987	N18	WF987248	8.00	6/21/98	PSEUDONITZSCHIA DELICATISSIMA	853.42
WF987	N18	WF987248	8.00	6/21/98	RHIZOLENIA FRAGILISSIMA	8120.67
WF987	N18	WF987248	8.00	6/21/98	SKELETONEMA COSTATUM GREV+CLEVE	218.22
WF987	N18	WF987248	8.00	6/21/98	THALASSIONEMA NITZSCHIOIDES	748.25
WF987	N18	WF987248	8.00	6/21/98	THALASSIOSIRA SP. GROUP 2 DIAM >20 MICRONS	2155.55
WF987	N18	WF987248	8.00	6/21/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	14757.27
WF987	N18	WF987248	8.00	6/21/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	4108.14
WF987	N18	WF987248	8.00	6/21/98	ATHECATE DINOFLAGELLATE	NA
WF987	N18	WF987248	8.00	6/21/98	CERATIUM FUSUS	138.32
WF987	N18	WF987248	8.00	6/21/98	CERATIUM LINEATUM	73.63
WF987	N18	WF987248	8.00	6/21/98	CERATIUM LONGIPES	4489.32
WF987	N18	WF987248	8.00	6/21/98	CERATIUM SPP.	142.92
WF987	N18	WF987248	8.00	6/21/98	CERATIUM TRIPOS	3419.18
WF987	N18	WF987248	8.00	6/21/98	DINOPHYSIS ACUMINATA	1.04
WF987	N18	WF987248	8.00	6/21/98	DINOPHYSIS NORVEGICA	NA
WF987	N18	WF987248	8.00	6/21/98	DISTEPHANUS SPECULUM	2.64
WF987	N18	WF987248	8.00	6/21/98	GYRODINIUM SP. GROUP 1 5-20UM W 10-20UM L	0.30
WF987	N18	WF987248	8.00	6/21/98	PROTOPERIDINIUM BREVIPIES	27.35
WF987	N18	WF987248	8.00	6/21/98	PROTOPERIDINIUM DEPRESSUM	1326.95
WF987	N18	WF987248	8.00	6/21/98	PROTOPERIDINIUM SPP.	43.41
WF987	N18	WF987248	8.00	6/21/98	PROTOPERIDINIUM TROCHOIDIUM	19.34
WF987	N18	WF98724A	1.65	6/21/98	AMPHIDIUM SPP.	334.11
WF987	N18	WF98724A	1.65	6/21/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	406.41
WF987	N18	WF98724A	1.65	6/21/98	CERATAULINA PELAGICA	48571.09
WF987	N18	WF98724A	1.65	6/21/98	CERATIUM FUSUS	9647.76
WF987	N18	WF98724A	1.65	6/21/98	CERATIUM LINEATUM	3118.02
WF987	N18	WF98724A	1.65	6/21/98	CERATIUM LONGIPES	16034.18
WF987	N18	WF98724A	1.65	6/21/98	CERATIUM TRIPOS	24721.98
WF987	N18	WF98724A	1.65	6/21/98	CHAETOCEROS COMPRESSUS	26335.95
WF987	N18	WF98724A	1.65	6/21/98	CHAETOCEROS SEPTENTRIONALIS	NA
WF987	N18	WF98724A	1.65	6/21/98	CHAETOCEROS SOCIALIS	7264.56
WF987	N18	WF98724A	1.65	6/21/98	CHAETOCEROS SP. GROUP 2 DIAM 10-30 MICRONS	17145.51
WF987	N18	WF98724A	1.65	6/21/98	CHAETOCEROS SPP.(<10UM)	2700.94
WF987	N18	WF98724A	1.65	6/21/98	CHAETOCEROS SUBTILIS	485.42
WF987	N18	WF98724A	1.65	6/21/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	1265.70
WF987	N18	WF98724A	1.65	6/21/98	CYLINDROTHECA CLOSTERIUM	748.13
WF987	N18	WF98724A	1.65	6/21/98	DINOPHYSIS NORVEGICA	NA
WF987	N18	WF98724A	1.65	6/21/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	26243.20
WF987	N18	WF98724A	1.65	6/21/98	GYMNODINIUM SP. GROUP 2 21-40UM W 21-50UM L	80763.91
WF987	N18	WF98724A	1.65	6/21/98	HETEROCAPSA ROTUNDATA	344.30
WF987	N18	WF98724A	1.65	6/21/98	LEPTOCYLINDRUS DANICUS	3865.49

Survey	Sta.	Sample Number	Depth (m)	Sampling Date	Plankton	Estimated Carbon Equivalence (ng Carbon/L)
WF987	N18	WF98724A	1.65	6/21/98	LEPTOCYLINDRUS MINIMUS	113.48
WF987	N18	WF98724A	1.65	6/21/98	PENNATE DIATOM SP. GROUP 2 10-30 MICRONS LENGTH	534.55
WF987	N18	WF98724A	1.65	6/21/98	PENNATE DIATOM SP. GROUP 3 31-60 MICRONS LENGTH	152.87
WF987	N18	WF98724A	1.65	6/21/98	PROBOSCIA ALATA	355460.18
WF987	N18	WF98724A	1.65	6/21/98	PSEUDONITZSCHIA DELICATISSIMA	1911.93
WF987	N18	WF98724A	1.65	6/21/98	RHIZOLENIA DELICATULA	737.65
WF987	N18	WF98724A	1.65	6/21/98	RHIZOLENIA FRAGILISSIMA	27072.80
WF987	N18	WF98724A	1.65	6/21/98	SKELETONEMA COSTATUM GREV+CLEVE	1870.45
WF987	N18	WF98724A	1.65	6/21/98	THALASSIONEMA NITZSCHIOIDES	1224.40
WF987	N18	WF98724A	1.65	6/21/98	THALASSIOSIRA SP. GROUP 2 DIAM >20 MICRONS	8622.21
WF987	N18	WF98724A	1.65	6/21/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	31889.28
WF987	N18	WF98724A	1.65	6/21/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	10270.35
WF987	N18	WF98724A	1.65	6/21/98	ATHECATE DINOFLAGELLATE	NA
WF987	N18	WF98724A	1.65	6/21/98	CERATIUM FUSUS	800.01
WF987	N18	WF98724A	1.65	6/21/98	CERATIUM LINEATUM	477.33
WF987	N18	WF98724A	1.65	6/21/98	CERATIUM LONGIPES	4397.86
WF987	N18	WF98724A	1.65	6/21/98	CERATIUM SPP.	243.22
WF987	N18	WF98724A	1.65	6/21/98	CERATIUM TRIPOS	4632.20
WF987	N18	WF98724A	1.65	6/21/98	DINOPHYSIS ACUMINATA	1.47
WF987	N18	WF98724A	1.65	6/21/98	DINOPHYSIS NORVEGICA	NA
WF987	N18	WF98724A	1.65	6/21/98	DISTEPHANUS SPECULUM	1.25
WF987	N18	WF98724A	1.65	6/21/98	GYRODINIUM SP. GROUP 1 5-20UM W 10-20UM L	0.14
WF987	N18	WF98724A	1.65	6/21/98	MESODINIUM RUBRUM	NA
WF987	N18	WF98724A	1.65	6/21/98	PROTOPERIDINIUM BREVIPES	1.85
WF987	N18	WF98724A	1.65	6/21/98	PROTOPERIDINIUM DEPRESSUM	250.91
WF987	N18	WF98724A	1.65	6/21/98	PROTOPERIDINIUM PALLIDUM	41.65
WF987	N18	WF98724A	1.65	6/21/98	PROTOPERIDINIUM SPP.	16.42
WF987	N18	WF98724A	1.65	6/21/98	PROTOPERIDINIUM TROCHOIDIUM	16.46
WN988	N04	WN988088	13.86	7/12/98	CERATIUM LINEATUM	14724.00
WN988	N04	WN988088	13.86	7/12/98	CERATIUM TRIPOS	467644.34
WN988	N04	WN988088	13.86	7/12/98	CHAETOCEROS SP. GROUP 2 DIAM 10-30 MICRONS	13058.86
WN988	N04	WN988088	13.86	7/12/98	CORETHRON CRIOPHILUM	23499.09
WN988	N04	WN988088	13.86	7/12/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	1197.28
WN988	N04	WN988088	13.86	7/12/98	CRYPTOMONAS SP. GROUP 2 LENGTH >10 MICRONS	1281.48
WN988	N04	WN988088	13.86	7/12/98	CYLINDROTHECA CLOSTERIUM	1177.61
WN988	N04	WN988088	13.86	7/12/98	DICTYOCHEA SPECULUM	NA
WN988	N04	WN988088	13.86	7/12/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	43029.25
WN988	N04	WN988088	13.86	7/12/98	GYMNODINIUM SP. GROUP 2 21-40UM W 21-50UM L	61021.62
WN988	N04	WN988088	13.86	7/12/98	PENNATE DIATOM SP. GROUP 2 10-30 MICRONS LENGTH	1011.30
WN988	N04	WN988088	13.86	7/12/98	PENNATE DIATOM SP. GROUP 3 31-60 MICRONS LENGTH	721.89
WN988	N04	WN988088	13.86	7/12/98	PROBOSCIA ALATA	1867400.16
WN988	N04	WN988088	13.86	7/12/98	PSEUDONITZSCHIA DELICATISSIMA	1291.65
WN988	N04	WN988088	13.86	7/12/98	PSEUDONITZSCHIA PUNGENS	773.63
WN988	N04	WN988088	13.86	7/12/98	PYRAMIMONAS SP. GROUP 1 10-20 MICRONS LENGTH	NA
WN988	N04	WN988088	13.86	7/12/98	RHIZOLENIA FRAGILISSIMA	5113.75
WN988	N04	WN988088	13.86	7/12/98	SKELETONEMA COSTATUM GREV+CLEVE	441.63
WN988	N04	WN988088	13.86	7/12/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	202814.44

Survey	Sta.	Sample Number	Depth (m)	Sampling Date	Plankton	Estimated Carbon Equivalence (ng Carbon/L)
WN988	N04	WN988088	13.86	7/12/98	CERATIUM FUSUS	2284.65
WN988	N04	WN988088	13.86	7/12/98	CERATIUM LINEATUM	237.52
WN988	N04	WN988088	13.86	7/12/98	CERATIUM LONGIPES	531.05
WN988	N04	WN988088	13.86	7/12/98	CERATIUM SPP.	841.92
WN988	N04	WN988088	13.86	7/12/98	CERATIUM TRIPOS	21124.65
WN988	N04	WN988088	13.86	7/12/98	DINOPHYSIS ACUMINATA	0.51
WN988	N04	WN988088	13.86	7/12/98	DINOPHYSIS NORVEGICA	NA
WN988	N04	WN988088	13.86	7/12/98	DISTEPHANUS SPECULUM	12.97
WN988	N04	WN988088	13.86	7/12/98	GYRODINIUM SP. GROUP 2 21-40UM W 21-50UM L	5.35
WN988	N04	WN988088	13.86	7/12/98	PROTOPERIDIUM BREVIPES	30.69
WN988	N04	WN988088	13.86	7/12/98	PROTOPERIDIUM DEPRESSUM	1563.39
WN988	N04	WN988088	13.86	7/12/98	PROTOPERIDIUM PYRIFORME	NA
WN988	N04	WN988088	13.86	7/12/98	PROTOPERIDIUM SPP.	85.25
WN988	N04	WN988088	13.86	7/12/98	PROTOPERIDIUM TROCHOIDIUM	45.57
WN988	N04	WN988088	13.86	7/12/98	THECATE DINOFLAGELLATE SPP.	NA
WN988	N04	WN98808A	1.52	7/12/98	CALYCOMONAS WULFFII	4326.02
WN988	N04	WN98808A	1.52	7/12/98	CERATAULINA PELAGICA	125925.05
WN988	N04	WN98808A	1.52	7/12/98	CHAETOCEROS SEPTENTRIONALIS	NA
WN988	N04	WN98808A	1.52	7/12/98	CHAETOCEROS SP. GROUP 2 DIAM 10-30 MICRONS	51211.21
WN988	N04	WN98808A	1.52	7/12/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	4108.31
WN988	N04	WN98808A	1.52	7/12/98	CYLINDROTHECA CLOSTERIUM	4618.10
WN988	N04	WN98808A	1.52	7/12/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	94106.19
WN988	N04	WN98808A	1.52	7/12/98	GYMNODINIUM SP. GROUP 2 21-40UM W 21-50UM L	179475.36
WN988	N04	WN98808A	1.52	7/12/98	GYRODINIUM SP. GROUP 1 5-20UM W 10-20UM L	16225.21
WN988	N04	WN98808A	1.52	7/12/98	GYRODINIUM SP. GROUP 2 21-40UM W 21-50UM L	59825.12
WN988	N04	WN98808A	1.52	7/12/98	LEPTOCYLINDRUS MINIMUS	76966.28
WN988	N04	WN98808A	1.52	7/12/98	PROBOSCIA ALATA	781683.26
WN988	N04	WN98808A	1.52	7/12/98	PROROCENTRUM MINIMUM	2324.30
WN988	N04	WN98808A	1.52	7/12/98	PSEUDONITZSCHIA DELICATISSIMA	6964.80
WN988	N04	WN98808A	1.52	7/12/98	PYRAMIMONAS SP. GROUP 1 10-20 MICRONS LENGTH	NA
WN988	N04	WN98808A	1.52	7/12/98	RHIZOLENIA DELICATULA	17075.18
WN988	N04	WN98808A	1.52	7/12/98	RHIZOLENIA FRAGILISSIMA	807170.51
WN988	N04	WN98808A	1.52	7/12/98	SCRIPPSIELLA TROCHOIDEA	21263.61
WN988	N04	WN98808A	1.52	7/12/98	SKELETONEMA COSTATUM GREV+CLEVE	36081.24
WN988	N04	WN98808A	1.52	7/12/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	428507.80
WN988	N04	WN98808A	1.52	7/12/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	30478.96
WN988	N04	WN98808A	1.52	7/12/98	ALEXANDRIUM TAMARENSE	2.31
WN988	N04	WN98808A	1.52	7/12/98	ATHECATE DINOFLAGELLATE	NA
WN988	N04	WN98808A	1.52	7/12/98	CERATIUM FUSUS	891.28
WN988	N04	WN98808A	1.52	7/12/98	CERATIUM LINEATUM	248.61
WN988	N04	WN98808A	1.52	7/12/98	CERATIUM LONGIPES	98.34
WN988	N04	WN98808A	1.52	7/12/98	CERATIUM MACROCEROS	40.41
WN988	N04	WN98808A	1.52	7/12/98	CERATIUM SPP.	129.93
WN988	N04	WN98808A	1.52	7/12/98	CERATIUM TRIPOS	3222.07
WN988	N04	WN98808A	1.52	7/12/98	DINOPHYSIS ACUMINATA	0.47
WN988	N04	WN98808A	1.52	7/12/98	DINOPHYSIS NORVEGICA	NA
WN988	N04	WN98808A	1.52	7/12/98	GYMNODINIUM SPP.	2.66
WN988	N04	WN98808A	1.52	7/12/98	PROROCENTRUM MINIMUM	1.54
WN988	N04	WN98808A	1.52	7/12/98	PROTOPERIDIUM SPP.	31.57
WN988	N04	WN98808A	1.52	7/12/98	PROTOPERIDIUM TROCHOIDIUM	94.94
WN988	N04	WN98808A	1.52	7/12/98	THECATE DINOFLAGELLATE SPP.	NA
WN988	N18	WN9880C5	8.08	7/12/98	ASTERIONELLOPSIS GLACIALIS	1103.42

Survey	Sta.	Sample Number	Depth (m)	Sampling Date	Plankton	Estimated Carbon Equivalence (ng Carbon/L)
WN988	N18	WN9880C5	8.08	7/12/98	CALYCOMONAS OVALIS	233.13
WN988	N18	WN9880C5	8.08	7/12/98	CALYCOMONAS WULFFII	1138.43
WN988	N18	WN9880C5	8.08	7/12/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	2763.97
WN988	N18	WN9880C5	8.08	7/12/98	CERATAULINA PELAGICA	53967.88
WN988	N18	WN9880C5	8.08	7/12/98	CERATIUM FUSUS	44665.56
WN988	N18	WN9880C5	8.08	7/12/98	CERATIUM TRIPOS	228907.27
WN988	N18	WN9880C5	8.08	7/12/98	CHAETOCEROS SEPTENTRIONALIS	NA
WN988	N18	WN9880C5	8.08	7/12/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	1173.80
WN988	N18	WN9880C5	8.08	7/12/98	CRYPTOMONAS SP. GROUP 2 LENGTH >10 MICRONS	1256.35
WN988	N18	WN9880C5	8.08	7/12/98	CYLINDROTHECA CLOSTERIUM	18499.03
WN988	N18	WN9880C5	8.08	7/12/98	DINOPHYSIS NORVEGICA	NA
WN988	N18	WN9880C5	8.08	7/12/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	58410.74
WN988	N18	WN9880C5	8.08	7/12/98	GYRODINIUM SP. GROUP 1 5-20UM W 10-20UM L	3245.04
WN988	N18	WN9880C5	8.08	7/12/98	LEPTOCYLINDRUS DANICUS	217502.42
WN988	N18	WN9880C5	8.08	7/12/98	LEPTOCYLINDRUS MINIMUS	31522.02
WN988	N18	WN9880C5	8.08	7/12/98	PENNATE DIATOM SP. GROUP 2 10-30 MICRONS LENGTH	2974.42
WN988	N18	WN9880C5	8.08	7/12/98	PENNATE DIATOM SP. GROUP 3 31-60 MICRONS LENGTH	1415.47
WN988	N18	WN9880C5	8.08	7/12/98	PROBOSCIA ALATA	329129.79
WN988	N18	WN9880C5	8.08	7/12/98	PSEUDONITZSCHIA DELICATISSIMA	1899.49
WN988	N18	WN9880C5	8.08	7/12/98	PYRAMIMONAS SP. GROUP 1 10-20 MICRONS LENGTH	NA
WN988	N18	WN9880C5	8.08	7/12/98	RHIZOLENIA DELICATULA	23905.26
WN988	N18	WN9880C5	8.08	7/12/98	RHIZOLENIA FRAGILISSIMA	55148.30
WN988	N18	WN9880C5	8.08	7/12/98	SCRIPPSIELLA TROCHOIDEA	10616.49
WN988	N18	WN9880C5	8.08	7/12/98	SKELETONEMA COSTATUM GREV+CLEVE	46761.29
WN988	N18	WN9880C5	8.08	7/12/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	183736.09
WN988	N18	WN9880C5	8.08	7/12/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	49528.30
WN988	N18	WN9880C5	8.08	7/12/98	ALEXANDRIUM TAMARENSE	0.39
WN988	N18	WN9880C5	8.08	7/12/98	CERATIUM FUSUS	3800.05
WN988	N18	WN9880C5	8.08	7/12/98	CERATIUM LINEATUM	290.68
WN988	N18	WN9880C5	8.08	7/12/98	CERATIUM LONGIPES	280.27
WN988	N18	WN9880C5	8.08	7/12/98	CERATIUM MACROCEROS	44.68
WN988	N18	WN9880C5	8.08	7/12/98	CERATIUM SPP.	236.98
WN988	N18	WN9880C5	8.08	7/12/98	CERATIUM TRIPOS	13309.80
WN988	N18	WN9880C5	8.08	7/12/98	DINOPHYSIS ACUMINATA	2.15
WN988	N18	WN9880C5	8.08	7/12/98	DINOPHYSIS NORVEGICA	NA
WN988	N18	WN9880C5	8.08	7/12/98	GONYAULAX SPINIFERA	4.05
WN988	N18	WN9880C5	8.08	7/12/98	PROTOPERIDINIUM DEPRESSUM	1100.16
WN988	N18	WN9880C5	8.08	7/12/98	PROTOPERIDINIUM PYRIFORME	NA
WN988	N18	WN9880C5	8.08	7/12/98	PROTOPERIDINIUM SPP.	71.99
WN988	N18	WN9880C5	8.08	7/12/98	PROTOPERIDINIUM TROCHOIDIUM	80.17
WN988	N18	WN9880C7	1.58	7/12/98	CALYCOMONAS OVALIS	727.36
WN988	N18	WN9880C7	1.58	7/12/98	CALYCOMONAS WULFFII	3551.89
WN988	N18	WN9880C7	1.58	7/12/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	3658.49
WN988	N18	WN9880C7	1.58	7/12/98	CERATAULINA PELAGICA	74835.46
WN988	N18	WN9880C7	1.58	7/12/98	CHAETOCEROS SPP.(<10UM)	3907.55
WN988	N18	WN9880C7	1.58	7/12/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	4679.56
WN988	N18	WN9880C7	1.58	7/12/98	CYLINDROTHECA CLOSTERIUM	14429.25
WN988	N18	WN9880C7	1.58	7/12/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	80996.23
WN988	N18	WN9880C7	1.58	7/12/98	GYRODINIUM SP. GROUP 1 5-20UM W 10-20UM L	10124.53
WN988	N18	WN9880C7	1.58	7/12/98	GYRODINIUM SP. GROUP 2 21-40UM W 21-50UM L	124436.25

Survey	Sta.	Sample Number	Depth (m)	Sampling Date	Plankton	Estimated Carbon Equivalence (ng Carbon/L)
WN988	N18	WN9880C7	1.58	7/12/98	LEPTOCYLINDRUS DANICUS	91626.34
WN988	N18	WN9880C7	1.58	7/12/98	LEPTOCYLINDRUS MINIMUS	83869.60
WN988	N18	WN9880C7	1.58	7/12/98	PENNATE DIATOM SP. GROUP 2 10-30 MICRONS LENGTH	1031.13
WN988	N18	WN9880C7	1.58	7/12/98	PENNATE DIATOM SP. GROUP 3 31-60 MICRONS LENGTH	4416.27
WN988	N18	WN9880C7	1.58	7/12/98	PROBOSCIA ALATA	85573.75
WN988	N18	WN9880C7	1.58	7/12/98	PROROCENTRUM MINIMUM	4841.51
WN988	N18	WN9880C7	1.58	7/12/98	PROTOPERIDINIUM SP. GROUP 2 31-75W 41-80L	86835.45
WN988	N18	WN9880C7	1.58	7/12/98	PSEUDONITZSCHIA DELICATISSIMA	1316.98
WN988	N18	WN9880C7	1.58	7/12/98	PYRAMIMONAS SP. GROUP 1 10-20 MICRONS LENGTH	NA
WN988	N18	WN9880C7	1.58	7/12/98	RHIZOLENIA FRAGILISSIMA	203346.81
WN988	N18	WN9880C7	1.58	7/12/98	SKELETONEMA COSTATUM GREV+CLEVE	32721.36
WN988	N18	WN9880C7	1.58	7/12/98	THALASSIONEMA NITZSCHIOIDES	3275.15
WN988	N18	WN9880C7	1.58	7/12/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	451537.74
WN988	N18	WN9880C7	1.58	7/12/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	15849.06
WN988	N18	WN9880C7	1.58	7/12/98	ALEXANDRIUM TAMARENSE	0.80
WN988	N18	WN9880C7	1.58	7/12/98	ATHECATE DINOFLAGELLATE	NA
WN988	N18	WN9880C7	1.58	7/12/98	CERATIUM FUSUS	1723.10
WN988	N18	WN9880C7	1.58	7/12/98	CERATIUM LINEATUM	188.94
WN988	N18	WN9880C7	1.58	7/12/98	CERATIUM LONGIPES	268.47
WN988	N18	WN9880C7	1.58	7/12/98	CERATIUM MACROCEROS	61.14
WN988	N18	WN9880C7	1.58	7/12/98	CERATIUM SPP.	81.07
WN988	N18	WN9880C7	1.58	7/12/98	CERATIUM TRIPOS	5164.41
WN988	N18	WN9880C7	1.58	7/12/98	DINOPHYSIS NORVEGICA	NA
WN988	N18	WN9880C7	1.58	7/12/98	GONYAULAX SPINIFERA	2.77
WN988	N18	WN9880C7	1.58	7/12/98	GYMNODINIUM SPP.	19.35
WN988	N18	WN9880C7	1.58	7/12/98	GYRODINIUM SP. GROUP 2 21-40UM W 21-50UM L	7.73
WN988	N18	WN9880C7	1.58	7/12/98	KATODINIUM ROTUNDATUM	0.08
WN988	N18	WN9880C7	1.58	7/12/98	PROROCENTRUM MINIMUM	0.60
WN988	N18	WN9880C7	1.58	7/12/98	PROTOPERIDINIUM DEPRESSUM	501.83
WN988	N18	WN9880C7	1.58	7/12/98	PROTOPERIDINIUM DIVERGENS	85.90
WN988	N18	WN9880C7	1.58	7/12/98	PROTOPERIDINIUM SPP.	127.24
WN988	N18	WN9880C7	1.58	7/12/98	PROTOPERIDINIUM TROCHOIDIUM	109.70
WN988	N18	WN9880C7	1.58	7/12/98	THECATE DINOFLAGELLATE SPP.	NA
WN989	N04	WN989009	18.64	7/22/98	CENTRIC DIATOM SP. GROUP 2 DIAM 10-30 MICRONS	3453.88
WN989	N04	WN989009	18.64	7/22/98	CERATIUM FUSUS	116113.74
WN989	N04	WN989009	18.64	7/22/98	CERATIUM TRIPOS	366198.89
WN989	N04	WN989009	18.64	7/22/98	COSCIDINUS SP. GROUP 2 DIAM 40-100 MICRONS	15710.32
WN989	N04	WN989009	18.64	7/22/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	1173.80
WN989	N04	WN989009	18.64	7/22/98	CRYPTOMONAS SP. GROUP 2 LENGTH >10 MICRONS	2512.70
WN989	N04	WN989009	18.64	7/22/98	CYLINDROTHECA CLOSTERIUM	2308.72
WN989	N04	WN989009	18.64	7/22/98	DICTYOCHA SPECULUM	NA
WN989	N04	WN989009	18.64	7/22/98	DINOPHYSIS NORVEGICA	NA
WN989	N04	WN989009	18.64	7/22/98	GUINARDIA FLACCIDA	27661.60
WN989	N04	WN989009	18.64	7/22/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	412120.22
WN989	N04	WN989009	18.64	7/22/98	GYRODINIUM SP. GROUP 1 5-20UM W 10-20UM L	6490.08
WN989	N04	WN989009	18.64	7/22/98	GYRODINIUM SP. GROUP 2 21-40UM W 21-50UM L	29908.25
WN989	N04	WN989009	18.64	7/22/98	GYRODINIUM SPIRALE	26326.16
WN989	N04	WN989009	18.64	7/22/98	HETEROCAPSA TRIQUETRA	1141.03
WN989	N04	WN989009	18.64	7/22/98	LEPTOCYLINDRUS DANICUS	5505.60
WN989	N04	WN989009	18.64	7/22/98	LEPTOCYLINDRUS MINIMUS	682.88

Survey	Sta.	Sample Number	Depth (m)	Sampling Date	Plankton	Estimated Carbon Equivalence (ng Carbon/L)
WN989	N04	WN989009	18.64	7/22/98	PENNATE DIATOM SP. GROUP 2 10-30 MICRONS LENGTH	197.98
WN989	N04	WN989009	18.64	7/22/98	PLEUROSIGMA SPP.	2540.36
WN989	N04	WN989009	18.64	7/22/98	PROBOSCIA ALATA	304401.22
WN989	N04	WN989009	18.64	7/22/98	PROTOPERIDINIUM DEPRESSUM	145671.22
WN989	N04	WN989009	18.64	7/22/98	PROTOPERIDINIUM SP. GROUP 2 31-75W 41-80L	33393.44
WN989	N04	WN989009	18.64	7/22/98	PSEUDONITZSCHIA DELICATISSIMA	1327.54
WN989	N04	WN989009	18.64	7/22/98	PSEUDONITZSCHIA PUNGENS	2881.74
WN989	N04	WN989009	18.64	7/22/98	PYRAMIMONAS SP. GROUP 1 10-20 MICRONS LENGTH	NA
WN989	N04	WN989009	18.64	7/22/98	RHIZOLENIA DELICATULA	6146.18
WN989	N04	WN989009	18.64	7/22/98	RHIZOLENIA HEBETATA F. SEMISPINA	1679.09
WN989	N04	WN989009	18.64	7/22/98	SCRIPPSIELLA TROCHOIDEA	4245.98
WN989	N04	WN989009	18.64	7/22/98	SKELETONEMA COSTATUM GREV+CLEVE	230.89
WN989	N04	WN989009	18.64	7/22/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	229670.11
WN989	N04	WN989009	18.64	7/22/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	15239.48
WN989	N04	WN989009	18.64	7/22/98	ALEXANDRIUM TAMARENSE	0.23
WN989	N04	WN989009	18.64	7/22/98	ATHECATE DINOFLAGELLATE	NA
WN989	N04	WN989009	18.64	7/22/98	CERATIUM FUSUS	6079.37
WN989	N04	WN989009	18.64	7/22/98	CERATIUM LINEATUM	1009.73
WN989	N04	WN989009	18.64	7/22/98	CERATIUM LONGIPES	259.62
WN989	N04	WN989009	18.64	7/22/98	CERATIUM SPP.	297.27
WN989	N04	WN989009	18.64	7/22/98	CERATIUM TRIPOS	19380.94
WN989	N04	WN989009	18.64	7/22/98	DINOPHYSIS NORVEGICA	NA
WN989	N04	WN989009	18.64	7/22/98	DISTEPHANUS SPECULUM	35.93
WN989	N04	WN989009	18.64	7/22/98	GYMNODINIUM SPP. (30UM)	NA
WN989	N04	WN989009	18.64	7/22/98	GYRODINIUM SP. GROUP 2 21-40UM W 21-50UM L	2.18
WN989	N04	WN989009	18.64	7/22/98	PROROCENTRUM MICANS	0.68
WN989	N04	WN989009	18.64	7/22/98	PROTOPERIDINIUM BREVIPIES	46.89
WN989	N04	WN989009	18.64	7/22/98	PROTOPERIDINIUM DEPRESSUM	2123.12
WN989	N04	WN989009	18.64	7/22/98	PROTOPERIDINIUM DIVERGENS	181.71
WN989	N04	WN989009	18.64	7/22/98	PROTOPERIDINIUM PENTAGONUM	367.66
WN989	N04	WN989009	18.64	7/22/98	PROTOPERIDINIUM SP. GROUP 1 10-30W 10-40L	134.51
WN989	N04	WN989009	18.64	7/22/98	PROTOPERIDINIUM SP. GROUP 2 31-75W 41-80L	693.55
WN989	N04	WN989009	18.64	7/22/98	PROTOPERIDINIUM TROCHOIDIUM	210.41
WN989	N04	WN989009	18.64	7/22/98	THECATE DINOFLAGELLATE SPP.	NA
WN989	N04	WN98900B	0.95	7/22/98	CALYCOMONAS WULFFII	1366.11
WN989	N04	WN98900B	0.95	7/22/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	1507.62
WN989	N04	WN98900B	0.95	7/22/98	CERATAULINA PELAGICA	197853.73
WN989	N04	WN98900B	0.95	7/22/98	CERATIUM FUSUS	44659.13
WN989	N04	WN98900B	0.95	7/22/98	CERATIUM MACROCEROS	44366.60
WN989	N04	WN98900B	0.95	7/22/98	CERATIUM TRIPOS	114437.15
WN989	N04	WN98900B	0.95	7/22/98	CHAETOCEROS SP. GROUP 2 DIAM 10-30 MICRONS	5120.38
WN989	N04	WN98900B	0.95	7/22/98	CHOANOFAGELLATE SPP.	616.53
WN989	N04	WN98900B	0.95	7/22/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	1565.07
WN989	N04	WN98900B	0.95	7/22/98	CYLINDROTHECA CLOSTERIUM	4617.43
WN989	N04	WN98900B	0.95	7/22/98	EBRIA TRIPARTITA	7358.31
WN989	N04	WN98900B	0.95	7/22/98	EUTREPTIA/EUTREPTIELLA SPP.	NA
WN989	N04	WN98900B	0.95	7/22/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	64900.82
WN989	N04	WN98900B	0.95	7/22/98	GYMNODINIUM SP. GROUP 2 21-40UM W 21-50UM L	149541.26
WN989	N04	WN98900B	0.95	7/22/98	GYRODINIUM SP. GROUP 2 21-40UM W 21-50UM L	59816.50
WN989	N04	WN98900B	0.95	7/22/98	GYRODINIUM SPIRALE	131630.79
WN989	N04	WN98900B	0.95	7/22/98	LEPTOCYLINDRUS DANICUS	957973.97

Survey	Sta.	Sample Number	Depth (m)	Sampling Date	Plankton	Estimated Carbon Equivalence (ng Carbon/L)
WN989	N04	WN98900B	0.95	7/22/98	LEPTOCYLINDRUS MINIMUS	22850.18
WN989	N04	WN98900B	0.95	7/22/98	PROBOSCIA ALATA	246811.80
WN989	N04	WN98900B	0.95	7/22/98	PROROCENTRUM MINIMUM	2323.96
WN989	N04	WN98900B	0.95	7/22/98	PSEUDONITZSCHIA DELICATISSIMA	2528.64
WN989	N04	WN98900B	0.95	7/22/98	PYRAMIMONAS SP. GROUP 1 10-20 MICRONS LENGTH	NA
WN989	N04	WN98900B	0.95	7/22/98	SCRIPPSIELLA TROCHOIDEA	21263.61
WN989	N04	WN98900B	0.95	7/22/98	SKELETONEMA COSTATUM GREV+CLEVE	1731.65
WN989	N04	WN98900B	0.95	7/22/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	332864.36
WN989	N04	WN98900B	0.95	7/22/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	3809.87
WN989	N04	WN98900B	0.95	7/22/98	ATHECATE DINOFLAGELLATE	NA
WN989	N04	WN98900B	0.95	7/22/98	CERATIUM FUSUS	2233.76
WN989	N04	WN98900B	0.95	7/22/98	CERATIUM LINEATUM	219.92
WN989	N04	WN98900B	0.95	7/22/98	CERATIUM MACROCEROS	29.39
WN989	N04	WN98900B	0.95	7/22/98	CERATIUM SPP.	25.99
WN989	N04	WN98900B	0.95	7/22/98	CERATIUM TRIPOS	2198.59
WN989	N04	WN98900B	0.95	7/22/98	DINOPHYSIS NORVEGICA	NA
WN989	N04	WN98900B	0.95	7/22/98	DISTEPHANUS SPECULUM	2.40
WN989	N04	WN98900B	0.95	7/22/98	GYMNODINIUM SPP. (30UM)	NA
WN989	N04	WN98900B	0.95	7/22/98	PROROCENTRUM MICANS	9.27
WN989	N04	WN98900B	0.95	7/22/98	PROROCENTRUM MINIMUM	0.58
WN989	N04	WN98900B	0.95	7/22/98	PROTOPERIDINIUM BREVIPEES	15.98
WN989	N04	WN98900B	0.95	7/22/98	PROTOPERIDINIUM SP. GROUP 1 10-30W 10-40L	23.51
WN989	N04	WN98900B	0.95	7/22/98	PROTOPERIDINIUM SP. GROUP 2 31-75W 41-80L	622.20
WN989	N04	WN98900B	0.95	7/22/98	PROTOPERIDINIUM TROCHOIDIUM	189.87
WN989	N04	WN98900B	0.95	7/22/98	THECATE DINOFLAGELLATE SPP.	NA
WN989	N18	WN989036	16.20	7/22/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	4261.54
WN989	N18	WN989036	16.20	7/22/98	CERATAULINA PELAGICA	15252.72
WN989	N18	WN989036	16.20	7/22/98	CERATIUM FUSUS	85209.62
WN989	N18	WN989036	16.20	7/22/98	CERATIUM LINEATUM	12239.36
WN989	N18	WN989036	16.20	7/22/98	CERATIUM LONGIPES	157349.88
WN989	N18	WN989036	16.20	7/22/98	CERATIUM TRIPOS	97042.70
WN989	N18	WN989036	16.20	7/22/98	CHAETOCEROS COMPRESSUS	1640.92
WN989	N18	WN989036	16.20	7/22/98	CHAETOCEROS SEPTENTRIONALIS	NA
WN989	N18	WN989036	16.20	7/22/98	CHAETOCEROS SP. GROUP 2 DIAM 10-30 MICRONS	1085.52
WN989	N18	WN989036	16.20	7/22/98	CORETHRON CRIOPHILUM	9766.84
WN989	N18	WN989036	16.20	7/22/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	829.49
WN989	N18	WN989036	16.20	7/22/98	CYLINDROTHECA CLOSTERIUM	2936.69
WN989	N18	WN989036	16.20	7/22/98	DICTYOCHA SPECULUM	NA
WN989	N18	WN989036	16.20	7/22/98	DINOPHYSIS NORVEGICA	NA
WN989	N18	WN989036	16.20	7/22/98	EUTREPTIA/EUTREPTIELLA SPP.	NA
WN989	N18	WN989036	16.20	7/22/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	99752.56
WN989	N18	WN989036	16.20	7/22/98	GYMNODINIUM SP. GROUP 2 21-40UM W 21-50UM L	50724.40
WN989	N18	WN989036	16.20	7/22/98	GYRODINIUM SP. GROUP 2 21-40UM W 21-50UM L	19021.65
WN989	N18	WN989036	16.20	7/22/98	HETEROCAPSA ROTUNDATA	67.59
WN989	N18	WN989036	16.20	7/22/98	HETEROCAPSA TRIQUETRA	1209.49
WN989	N18	WN989036	16.20	7/22/98	LEPTOCYLINDRUS DANICUS	40851.53
WN989	N18	WN989036	16.20	7/22/98	LEPTOCYLINDRUS MINIMUS	723.85
WN989	N18	WN989036	16.20	7/22/98	PENNATE DIATOM SP. GROUP 2 10-30 MICRONS LENGTH	104.93
WN989	N18	WN989036	16.20	7/22/98	PROBOSCIA ALATA	235458.46
WN989	N18	WN989036	16.20	7/22/98	PROROCENTRUM MINIMUM	492.68
WN989	N18	WN989036	16.20	7/22/98	PROTOPERIDINIUM BIPES	1668.79

Survey	Sta.	Sample Number	Depth (m)	Sampling Date	Plankton	Estimated Carbon Equivalence (ng Carbon/L)
WN989	N18	WN989036	16.20	7/22/98	PSEUDONITZSCHIA DELICATISSIMA	1273.17
WN989	N18	WN989036	16.20	7/22/98	PSEUDONITZSCHIA PUNGENS	482.31
WN989	N18	WN989036	16.20	7/22/98	RHIZOLENIA FRAGILISSIMA	21254.10
WN989	N18	WN989036	16.20	7/22/98	RHIZOLENIA HEBETATA F. SEMISPINA	5339.51
WN989	N18	WN989036	16.20	7/22/98	SKELETONEMA COSTATUM GREV+CLEVE	12848.85
WN989	N18	WN989036	16.20	7/22/98	THALASSIONEMA NITZSCHIOIDES	133.51
WN989	N18	WN989036	16.20	7/22/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	224774.68
WN989	N18	WN989036	16.20	7/22/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	8076.92
WN989	N18	WN989036	16.20	7/22/98	CERATIUM FUSUS	2213.64
WN989	N18	WN989036	16.20	7/22/98	CERATIUM LINEATUM	188.56
WN989	N18	WN989036	16.20	7/22/98	CERATIUM LONGIPES	114.08
WN989	N18	WN989036	16.20	7/22/98	CERATIUM SPP.	241.14
WN989	N18	WN989036	16.20	7/22/98	CERATIUM TRIPOS	7299.31
WN989	N18	WN989036	16.20	7/22/98	DINOPHYSIS ACUMINATA	1.10
WN989	N18	WN989036	16.20	7/22/98	DINOPHYSIS NORVEGICA	NA
WN989	N18	WN989036	16.20	7/22/98	DISTEPHANUS SPECULUM	29.26
WN989	N18	WN989036	16.20	7/22/98	GYMNODINIUM SPP. (30UM)	NA
WN989	N18	WN989036	16.20	7/22/98	GYRODINIUM SP. GROUP 2 21-40UM W 21-50UM L	22.98
WN989	N18	WN989036	16.20	7/22/98	KATODINIUM ROTUNDATUM	0.06
WN989	N18	WN989036	16.20	7/22/98	PROROCENTRUM MINIMUM	0.22
WN989	N18	WN989036	16.20	7/22/98	PROTOPERIDIUM DEPRESSUM	2518.80
WN989	N18	WN989036	16.20	7/22/98	PROTOPERIDIUM PYRIFORME	NA
WN989	N18	WN989036	16.20	7/22/98	PROTOPERIDIUM SP. GROUP 1 10-30W 10-40L	31.82
WN989	N18	WN989036	16.20	7/22/98	PROTOPERIDIUM SP. GROUP 2 31-75W 41-80L	24.06
WN989	N18	WN989036	16.20	7/22/98	PROTOPERIDIUM TROCHOIDIUM	89.73
WN989	N18	WN989038	1.23	7/22/98	CALYCOMONAS WULFFII	2841.51
WN989	N18	WN989038	1.23	7/22/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	1567.92
WN989	N18	WN989038	1.23	7/22/98	CERATAULINA PELAGICA	56118.51
WN989	N18	WN989038	1.23	7/22/98	CERATIUM FUSUS	46445.49
WN989	N18	WN989038	1.23	7/22/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	4476.10
WN989	N18	WN989038	1.23	7/22/98	CRYPTOMONAS SP. GROUP 2 LENGTH >10 MICRONS	1306.60
WN989	N18	WN989038	1.23	7/22/98	CYLINDROTHECA CLOSTERIUM	2401.06
WN989	N18	WN989038	1.23	7/22/98	EUTREPTIA/EUTREPTIELLA SPP.	NA
WN989	N18	WN989038	1.23	7/22/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	60747.17
WN989	N18	WN989038	1.23	7/22/98	GYMNODINIUM SP. GROUP 2 21-40UM W 21-50UM L	93313.75
WN989	N18	WN989038	1.23	7/22/98	GYRODINIUM SP. GROUP 1 5-20UM W 10-20UM L	3369.50
WN989	N18	WN989038	1.23	7/22/98	GYRODINIUM SPIRALE	136896.02
WN989	N18	WN989038	1.23	7/22/98	LEPTOCYLINDRUS MINIMUS	111992.13
WN989	N18	WN989038	1.23	7/22/98	PROBOSCIA ALATA	128342.13
WN989	N18	WN989038	1.23	7/22/98	PSEUDONITZSCHIA DELICATISSIMA	1643.62
WN989	N18	WN989038	1.23	7/22/98	PYRAMIMONAS SP. GROUP 1 10-20 MICRONS LENGTH	NA
WN989	N18	WN989038	1.23	7/22/98	RHIZOLENIA DELICATULA	7102.25
WN989	N18	WN989038	1.23	7/22/98	RHIZOLENIA FRAGILISSIMA	26066.35
WN989	N18	WN989038	1.23	7/22/98	SCRIPPSIELLA TROCHOIDEA	11039.56
WN989	N18	WN989038	1.23	7/22/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	266341.82
WN989	N18	WN989038	1.23	7/22/98	ATHECATE DINOFLAGELLATE	NA
WN989	N18	WN989038	1.23	7/22/98	CERATIUM FUSUS	1845.29
WN989	N18	WN989038	1.23	7/22/98	CERATIUM LINEATUM	243.97
WN989	N18	WN989038	1.23	7/22/98	CERATIUM LONGIPES	185.87
WN989	N18	WN989038	1.23	7/22/98	CERATIUM TRIPOS	2626.93
WN989	N18	WN989038	1.23	7/22/98	DINOPHYSIS NORVEGICA	NA
WN989	N18	WN989038	1.23	7/22/98	GYMNODINIUM SPP. (30UM)	NA

Survey	Sta.	Sample Number	Depth (m)	Sampling Date	Plankton	Estimated Carbon Equivalence (ng Carbon/L)
WN989	N18	WN989038	1.23	7/22/98	GYRODINIUM SP. GROUP 2 21-40UM W 21-50UM L	12.48
WN989	N18	WN989038	1.23	7/22/98	PROTOPERIDINIUM PYRIFORME	NA
WN989	N18	WN989038	1.23	7/22/98	PROTOPERIDINIUM SP. GROUP 1 10-30W 10-40L	9.88
WN989	N18	WN989038	1.23	7/22/98	PROTOPERIDINIUM SP. GROUP 2 31-75W 41-80L	1332.76
WN989	N18	WN989038	1.23	7/22/98	PROTOPERIDINIUM TROCHOIDIUM	217.09
WN989	N18	WN989038	1.23	7/22/98	THECATE DINOFLAGELLATE SPP.	NA

APPENDIX A
Productivity Methods

METHODS

URI conducted a study of the reliability of using reduced sample volumes to measure primary productivity using ¹⁴C. The study found that analyses using 5-mL samples could produce results that were comparable to analyses using larger sample volumes. A summary of the study is in Appendix E of the Combined work/quality assurance plan for baseline water quality monitoring: 1998-2000 (Albro *et. al.*, 1998).

URI also measured the effects of sample holding time and increased incubation time on measurements of primary productivity using the photosynthetrons at URI. The results, summarized below, show that sample analysis must begin within 6 h of sample collection and incubation between 0.5 h and 2 h produce comparable results.

Incubation Time	
Time (h)	Productivity (g/C/m ² /h)
0.5	0.195
1	0.207
1.5	0.182
2	0.212

Holding Time	
Time (h)	Productivity (g/C/m ² /h)
0	0.207
4	0.182
6	0.210
8	0.177

Based on the results of these tests the following method has been used to collect and analyze water samples for productivity.

Primary Analysis by ¹⁴C – Field Procedures

From each of 5 depths at each productivity station, samples are obtained by filtration through 300-µm-mesh screen (to remove large zooplankton) from the Rosette sampling bottle into opaque 1-L polyethylene bottles. The bottles are rinsed twice prior to filling. The samples are then placed in a cooler and transferred to the URI laboratory within 5 hours of water sampling. Productivity samples are taken from the same bottles and depths as the other analyses.

Primary Analysis by ¹⁴C – Laboratory Procedures

Under subdued green light, each depth is processed separately starting with the surface water sample. Each sample is mixed thoroughly and then poured into a repipette set to deliver 5 mL. The repipette is rinsed twice with sample prior to use. The delivery tip of the repipette is flushed three times and 5 mL of sample will be pipetted into 20 mL borosilicate vials. A total of 16 bottles (14-16 light bottles, 2 dark bottles) are filled for each depth. These vials are incubated in a light and temperature controlled incubator. Light bottles from each depth are incubated at 14 to 16 light intensities (250 w Tungsten-halogen lamps attenuated with neutral density filters, range 0 to 2000 µE m⁻² s⁻¹) and all bottles are incubated within 2°C of the *in situ* temperature.

The 5 mL samples are incubated with 100 µL of 10 µCi/mL (1 µCi for 5 mL sample) Carbon-14 (¹⁴C) stock solution. All vials are then placed in the incubator for two hours. Time and temperature are recorded at the start and end of the incubation period. The light intensity within the incubator is measured before and after the incubation period. Temperature is constantly monitored throughout the incubation period and the location of each vial in the incubator is recorded. Upon removal from the incubator, 100 µL of 0.05N HCl, is added to each vial. Vials will remain loosely capped while shaken overnight. The following morning 15 mL Ecolume is

added to each vial, which is again loosely capped and shaken overnight. Two days following the cruise, vials are tightly capped and placed on the Beckman LS 3801 to be counted.

Calculation of Primary Production. Volume-specific primary production is calculated using equations similar to that of Strickland and Parsons (1972) as follows:

$$P(i) = \frac{1.05(DPM(i))DIC}{A_{sp}T}$$

$$P(d) = \frac{1.05(DPM(d))DIC}{A_{sp}T}$$

$$A_{sp} = DPM(sa) - DPM(back)$$

where:

$P(i)$ = primary production rate at light intensity i ($\mu\text{gC L}^{-1}\text{h}^{-1}$ or $\text{mgC m}^{-3}\text{h}^{-1}$)

$P(d)$ = dark production, ($\mu\text{gC L}^{-1}\text{h}^{-1}$ or $\text{mgC m}^{-3}\text{h}^{-1}$)

$DPM(i)$ = dpm in sample incubated at light intensity i

$DPM(d)$ = dpm in dark incubated sample

$DPM(back)$ = background dpm in vial containing only scintillation cocktail

$DPM(sa)$ = specific activity added to incubation samples (DPM)

T = incubation time (h)

DIC = concentration of dissolved inorganic carbon ($\mu\text{g/mL}$)

Table A-1 shows the frequency that primary productivity measurements and calculations are performed per vial, depth, station, and survey.

Table A-1. Measurement frequency for variables involved in calculation of primary production.

Measurement/ Calculation	Vial	Depth	Station	Survey
DPM(i)	✓			
P(i)	✓			
DIC		✓		
P(d)		✓		
DPM(d)		✓		
Asp			✓	
T			✓	
DPM(sa)			✓	
DPM(back)				✓

P-I curves. For each of the 5 depths for each photosynthesis station a P-I curve is obtained from the data $P(I) = P(i) - P(d)$ vs. the irradiance (I , $\mu\text{E m}^{-2}\text{s}^{-1}$) to which the incubating sample is exposed. The P-I curves are fit via one of two possible models, depending upon whether or not significant photo-inhibition occurs. In cases where photoinhibition is evident the model of Platt *et al.* (1980) is fit (SAS 1985) to obtain the theoretical maximum production, and terms for light-dependent rise in production and degree of photoinhibition:

$$P(I) = P_{sb} (1 - e^{-a}) e^{-b}$$

where:

$P(I)$ = primary production at irradiance I, corrected for dark fixation (P(i)-P(d))

P_{sb} = theoretical maximum production without photoinhibition

$a = \alpha I / P_{sb}$ and α is the initial slope, the light-dependent rise in production

$b = \beta I / P_{sb}$ and β is a term relating the degree of photoinhibition

If β is not significantly different from zero, an alternative model of Webb *et al.* (1974) is similarly fit to obtain the maximum production and the term for light-dependent rise in production:

$$P(I) = P_{max} (1 - e^{-a'})$$

where:

$P(I)$ = primary production at irradiance I corrected for dark fixation (P(i)-P(d))

P_{max} = light saturated maximum production

$a' = \alpha I / P_{max}$ and α is the initial slope the light-dependent rise in production

P_{max} and P_{sb} are not equivalent but they are mathematically related using the equation:

$$P_{max} = P_{sb} [\alpha / (\alpha + \beta)] [\beta / (\alpha + \beta)]^{\beta/\alpha}$$

Light vs. Depth Profiles. To obtain a numerical representation of the light field throughout the water column averaged CTD light profiles (0.5 m intervals) are fit (SAS 1985) to an empirical sum of exponentials equation of the form:

$$I_z = A_1 e^{-a_1 Z} + A_2 e^{-a_2 Z} + \dots$$

which is an expansion of the standard irradiance vs. depth equation:

$$I_z = I_0 e^{-kZ}$$

where:

I_z = light irradiance at depth Z

I_0 = incident irradiance (Z = 0)

k = extinction coefficient

$A_1, A_2 \dots$ = factors relating to incident irradiance ($I_0 = A_1 + A_2 + \dots$)

$a_1, a_2 \dots$ = coefficients relating to the extinction coefficient ($k = a_1 + a_2 + \dots$)

The expanded equation is used in most instances as spectral shifts, pigment layering and other factors result in deviation from the idealized standard irradiance vs. depth equation. The simplest form of the expanded equation is implemented to adequately model the light field, which in the large majority of cases is the sum of two exponentials.

Daily Incident Light Field. During normal CTD hydrocasts the incident light field is routinely measured via a deck light sensor at high temporal resolution. The average incident light intensity is determined for each of the CTD casts to provide, over the course of the photoperiod (12-hr period centered upon solar noon), a well resolved irradiance time series consisting of 12-17 data points. A 48-point time series (every 15 min) of incident is obtained from these data by linear interpolation. A similar time series of light data is collected at Deer Island, and is used as the photoperiod incident light (I_0) time series described below. The Deer Island data are collected using a 4π sensor and the light intensity measured in the incubator is collected with a cosine sensor. The cosine values are converted to 4π readings using an empirically determined equation:

$$4\pi = 17.58 + 1.0529 (\cos) - 0.00008 (\cos)^2$$

with both 4π and cosine light intensity in units of $\mu\text{E m}^{-2} \text{sec}^{-1}$. The r^2 for the empirical equation is 0.99. The light data are converted prior to fitting the P-I curves.

Calculation of Daily Primary Production. Given the best fit parameters (P_{sb} or P_{max} , α , β) of the P-I curves obtained for each of the five sampling depths, the in situ light intensity (*i.e.*, I_z) at each depth determined from the sum of exponential fits on the in situ light field, and the photoperiod incident light (I_0) time series, it is possible to compute daily volumetric production for each depth. To do this at a given depth, hourly production is determined for the in situ light intensity computed for each 15 min interval of the photoperiod, using the appropriate P-I parameters and in situ irradiance. Daily production ($\mu\text{g C L}^{-1} \text{d}^{-1}$) is obtained by integration of the determined activity throughout the 12-hour photoperiod. An advantage of this approach is that seasonal changes in photoperiod length are automatically incorporated into the integral computation. For example, during winter months computed early morning and late afternoon production contributes minimally to whole day production, whereas during summer months the relative contribution during these hours is more significant. The investigator does not have to decide which factor to employ when converting hourly production to daily production. The primary assumption of the approach is that the P-I relationship obtained at the time of sample procurement (towards the middle of the photoperiod) is representative of the majority of production occurring during the photoperiod, which should be the case.

Calculation of Daily Areal Production. Areal production ($\text{mg C m}^{-2} \text{d}^{-1}$) is obtained by trapezoidal integration of daily volumetric production vs. depth down to the 1% light level.

Calculation of Chlorophyll-Specific Parameters. Chlorophyll-specific measures of the various parameters (including the P-I parameters) is determined by dividing by the appropriate chlorophyll term obtained from independent measurements.

References

Albro CS, Trulli HK, Boyle JD, Sauchuk SA, Oviatt CA, Keller AA, Zimmerman C, Turner J, Borkman D, Tucker J. 1998. Combined work/quality assurance plan for baseline water quality monitoring 1998-2000. Boston: Massachusetts Water Resources Authority. Report ENQUAD ms-48. 121 p.

Platt, T., C.L. Gallegos, and W.G. Harrison. 1980. Photoinhibition of photosynthesis and light for natural assemblages of coastal marine phytoplankton. *J. Mar. Res.* 38:687-701.

SAS. 1985. *SAS Users Guide: Statistics*. SAS Institute, Inc., Cary, NC. 956 pp.

Webb, W.L., M. Newron, and D. Starr. 1974. Carbon dioxide exchange of *Alnus rubra*: a mathematical model. *Oecologia* 17:281-291.

APPENDIX B

Surface Contour Plots – Farfield Surveys

Surface Contour Plots – Farfield Surveys

All contour plots were created using data from the surface bottle sample (A). Each plot is labeled with the survey number (WF981 through WN989), and parameter. The minimum and maximum value, and the station where the value was measured are provided for each plot, as well as the contour interval and parameter units.

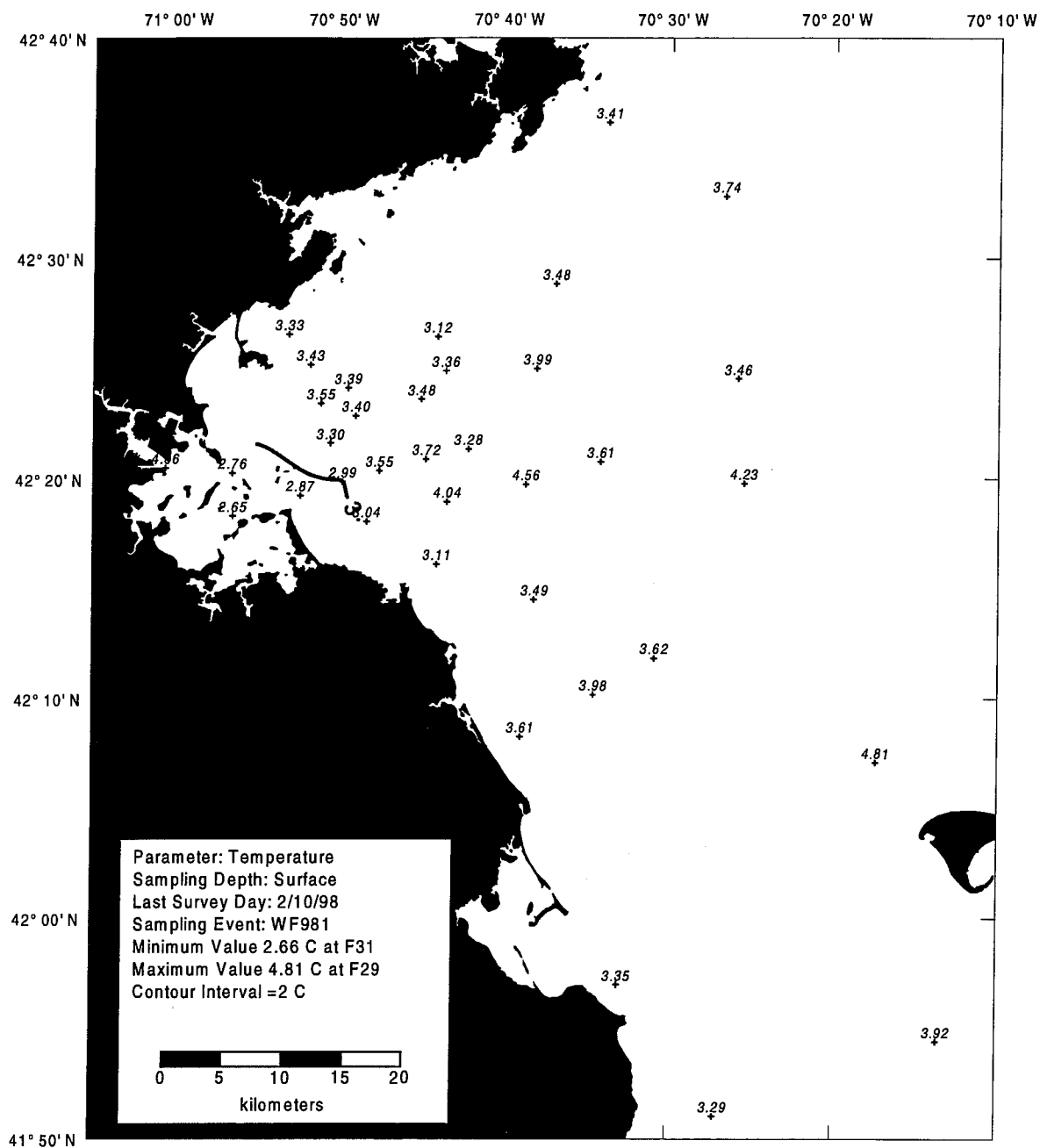


Figure B-1. Temperature Surface Contour Plot for Farfield Survey WF981 (Feb 98)

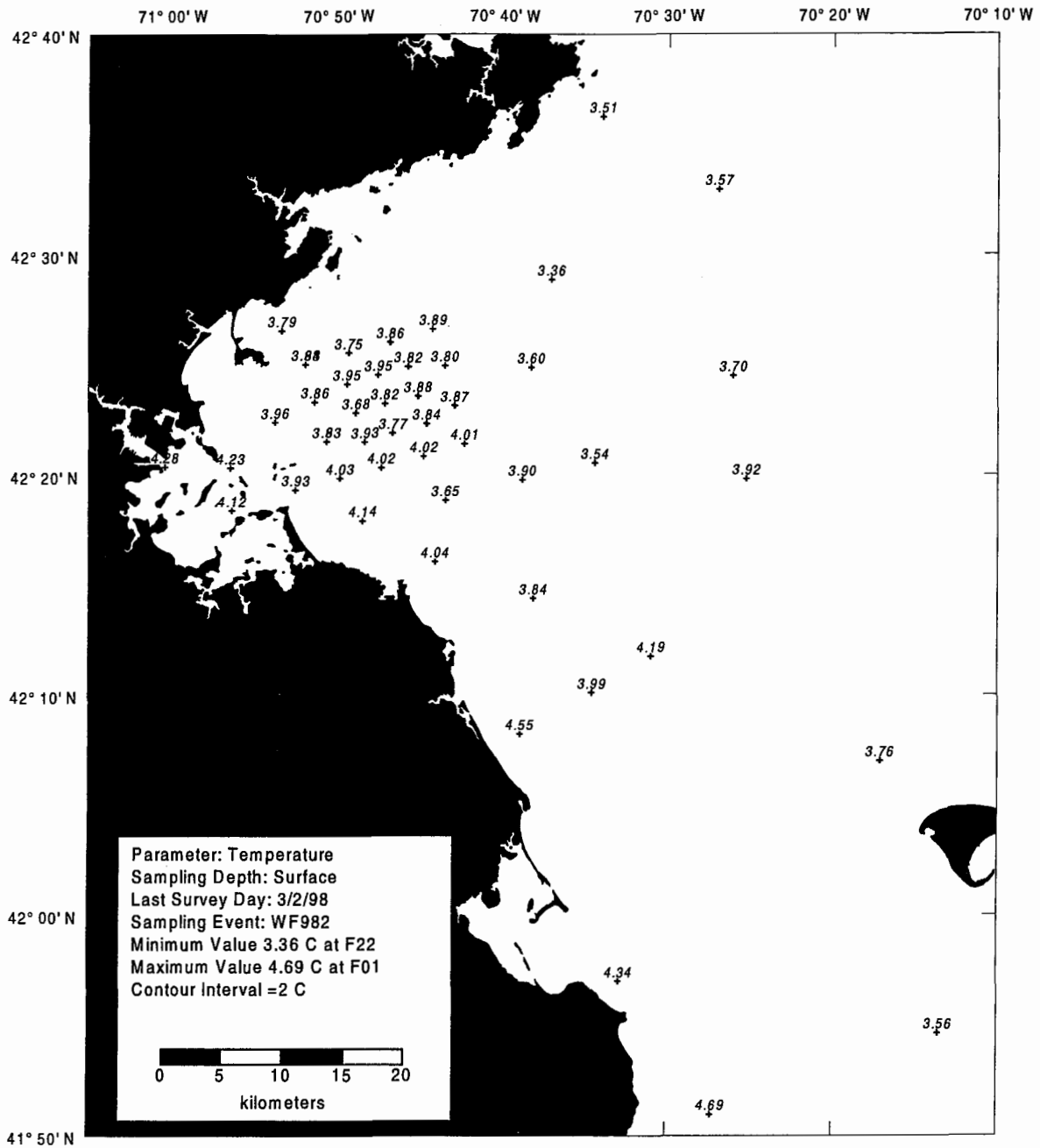


Figure B-2. Temperature Surface Contour Plot for Farfield Survey WF982 (Feb 98)

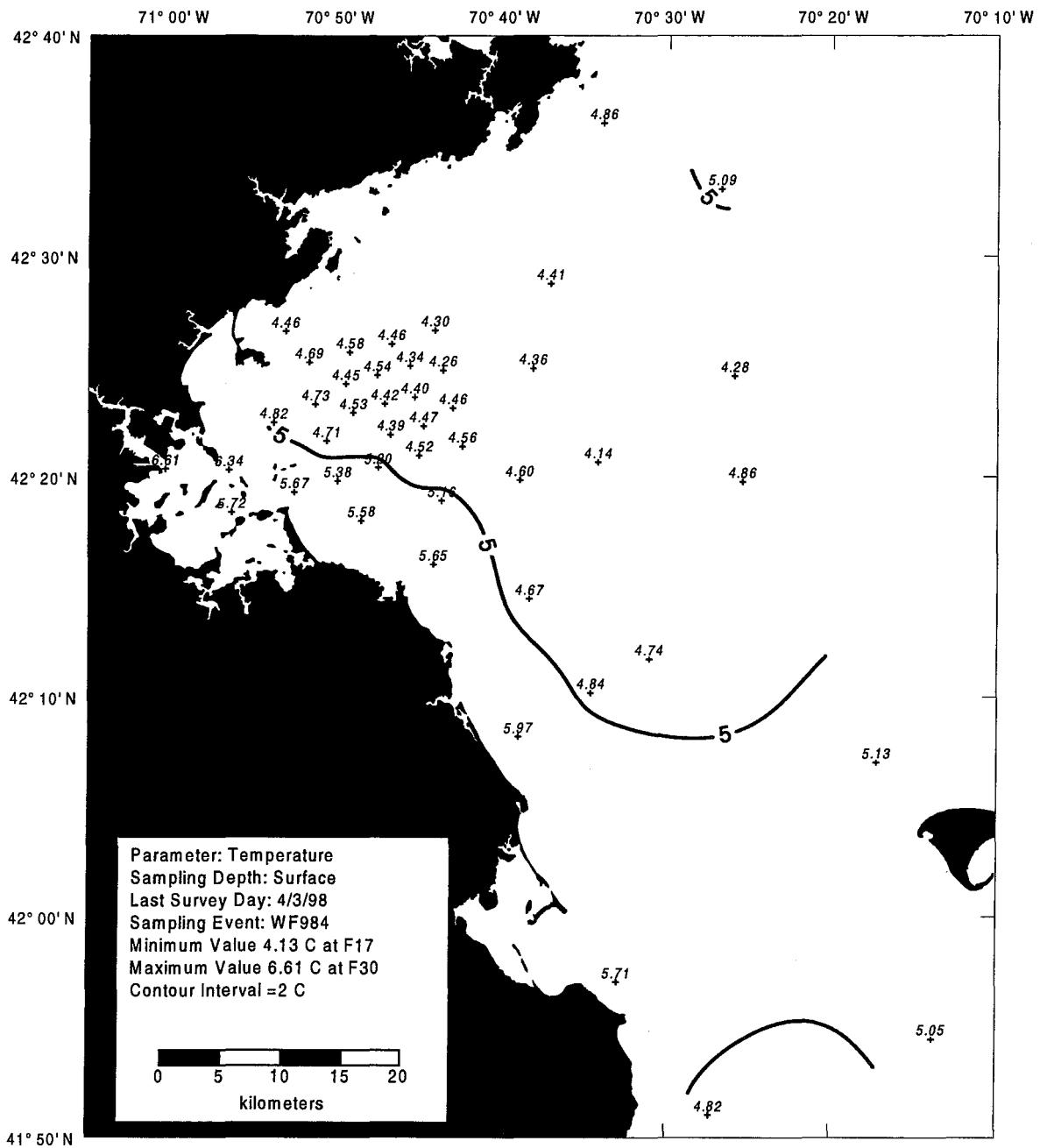


Figure B-3. Temperature Surface Contour Plot for Farfield Survey WF984 (Apr 98)

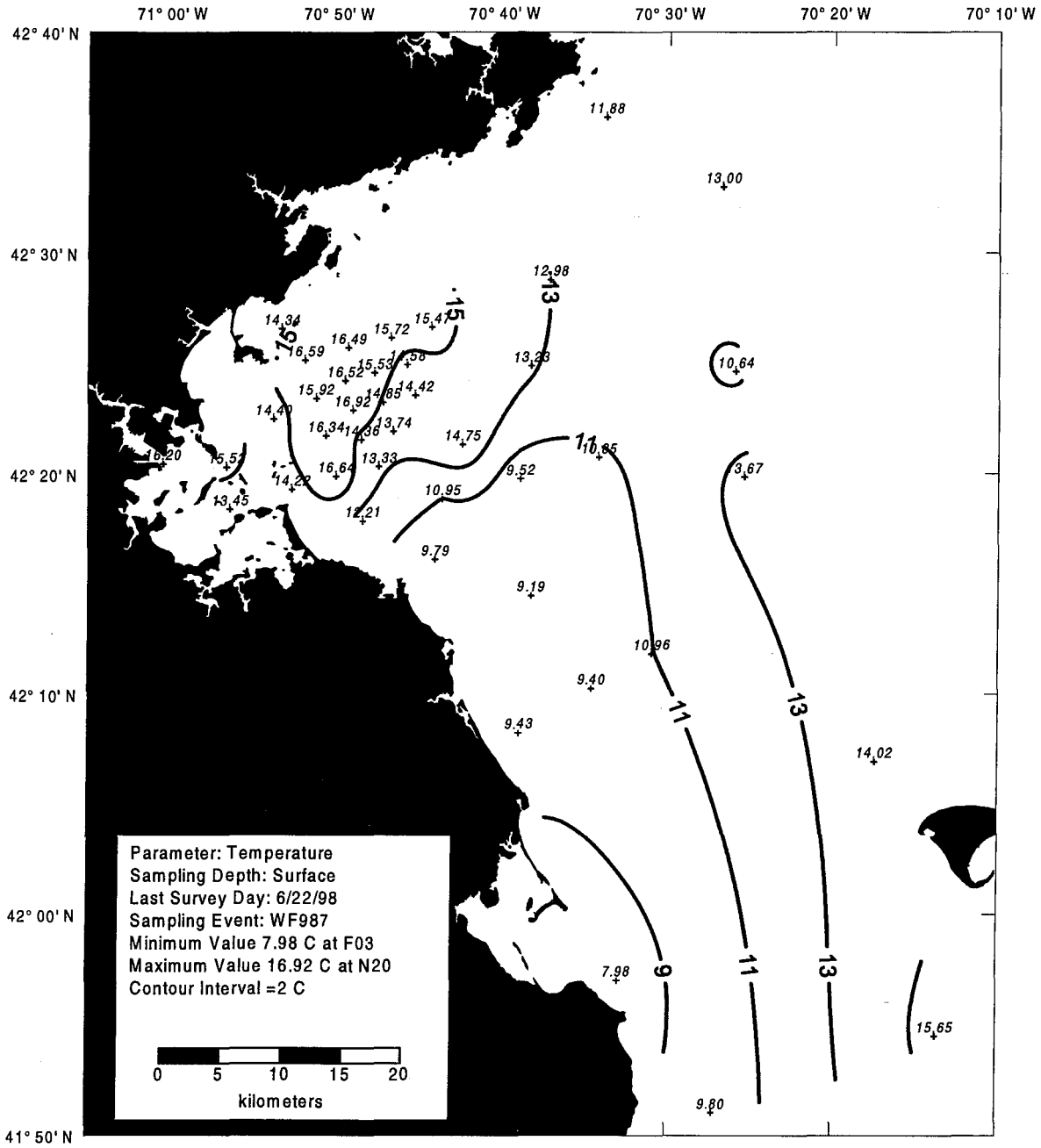


Figure B-4. Temperature Surface Contour Plot for Farfield Survey WF987 (Jun 98)

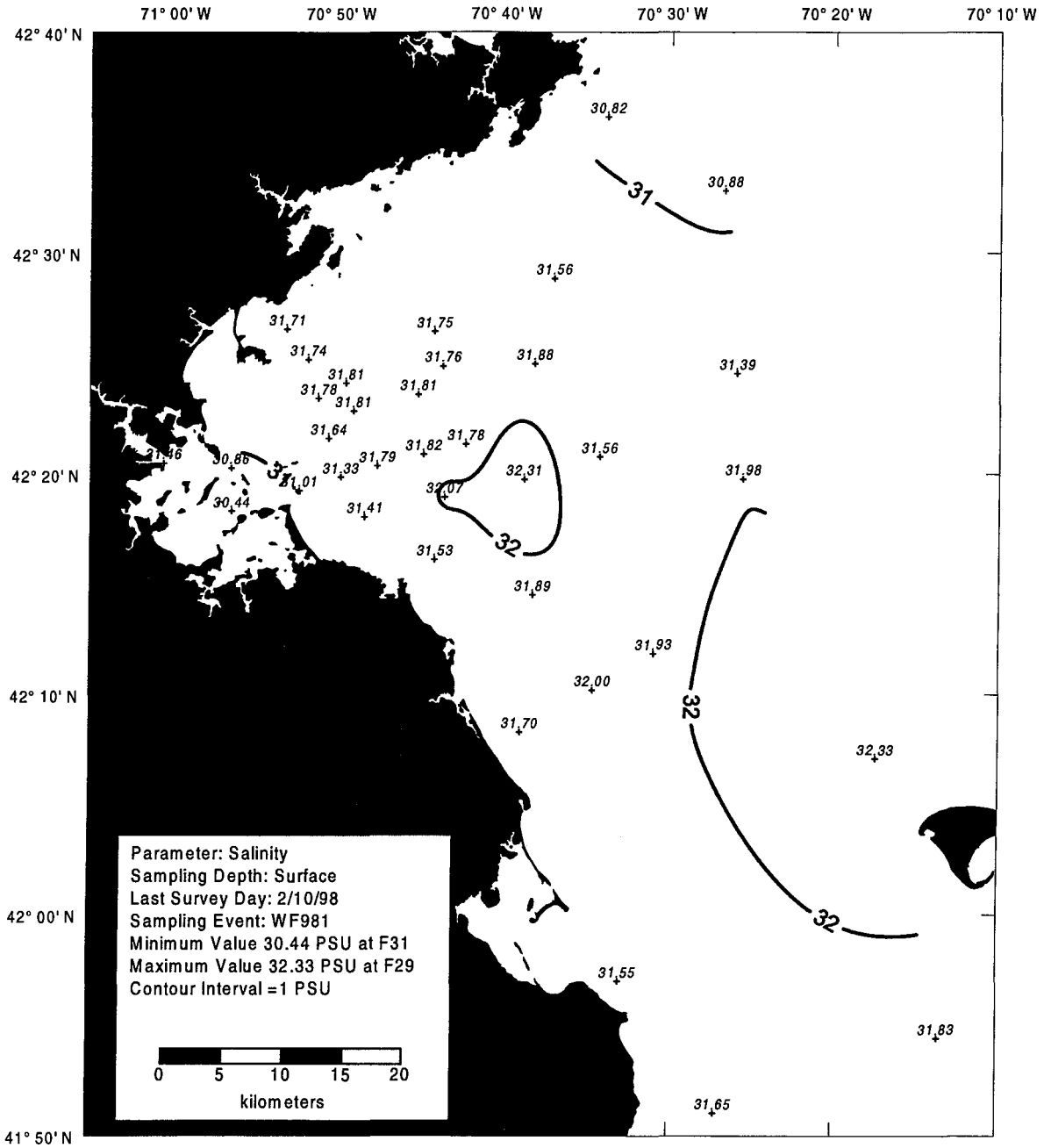


Figure B-5. Salinity Surface Contour Plot for Farfield Survey WF981 (Feb 98)

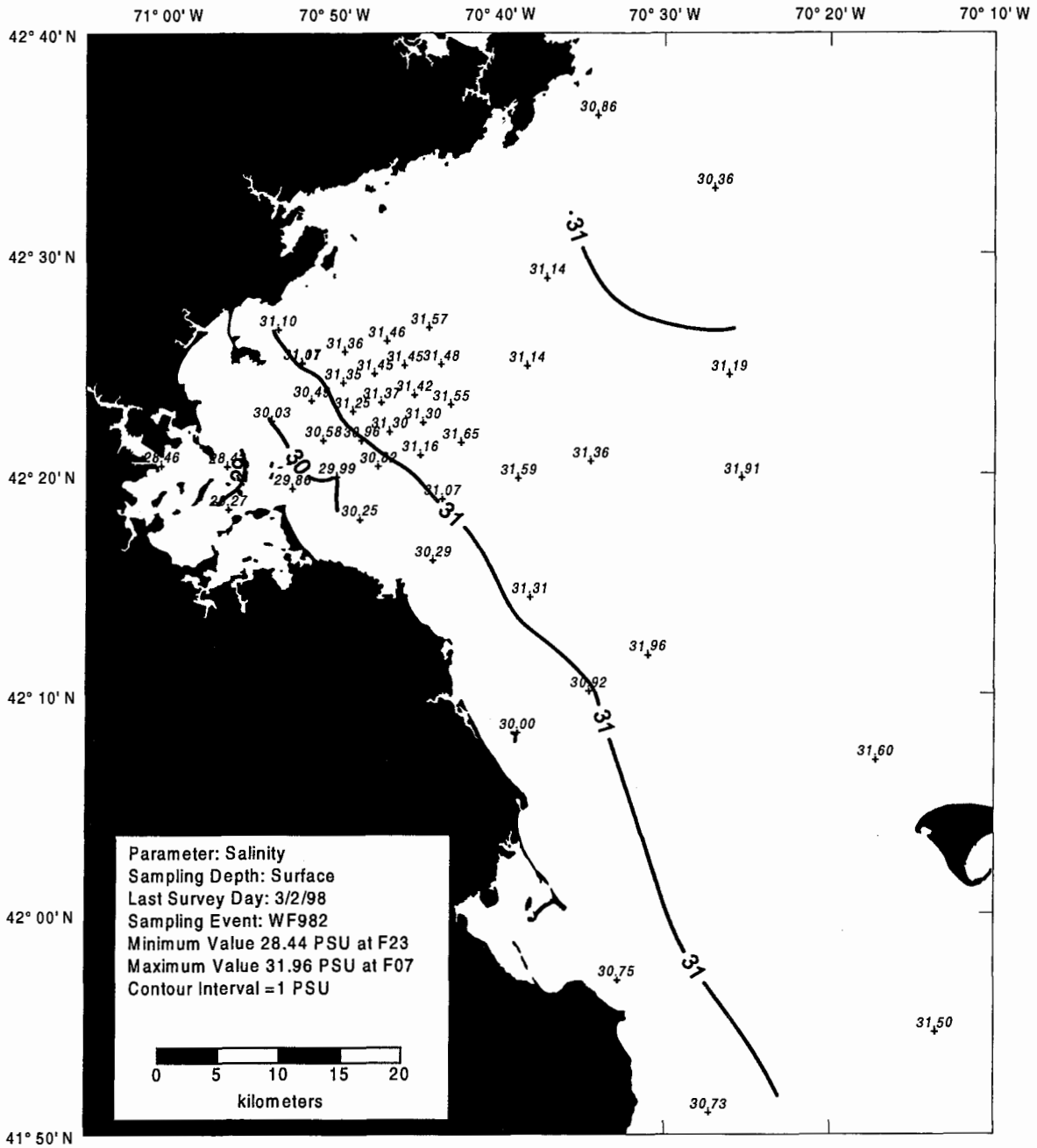


Figure B-6. Salinity Surface Contour Plot for Farfield Survey WF982 (Feb 98)

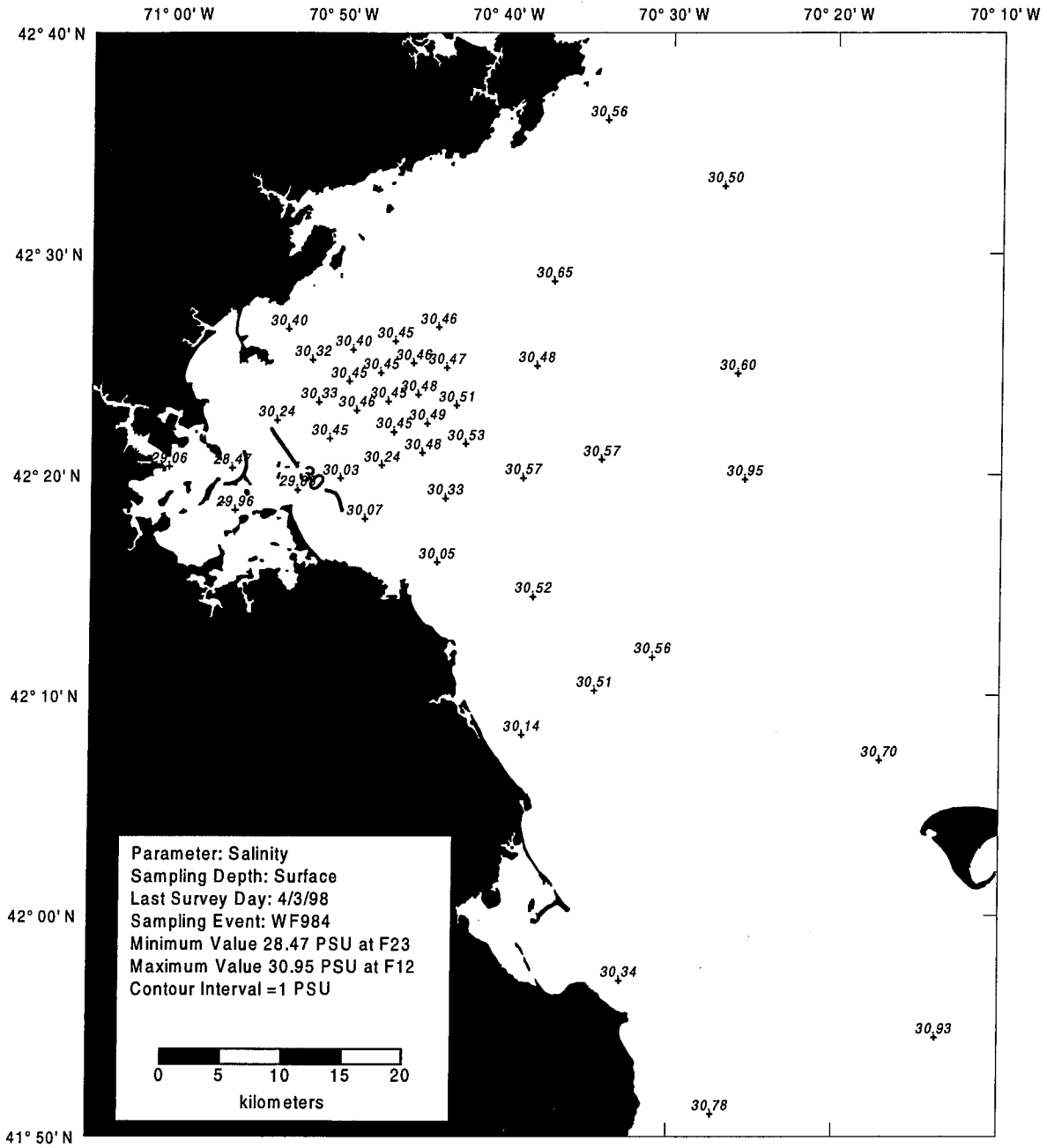


Figure B-7. Salinity Surface Contour Plot for Farfield Survey WF984 (Apr 98)

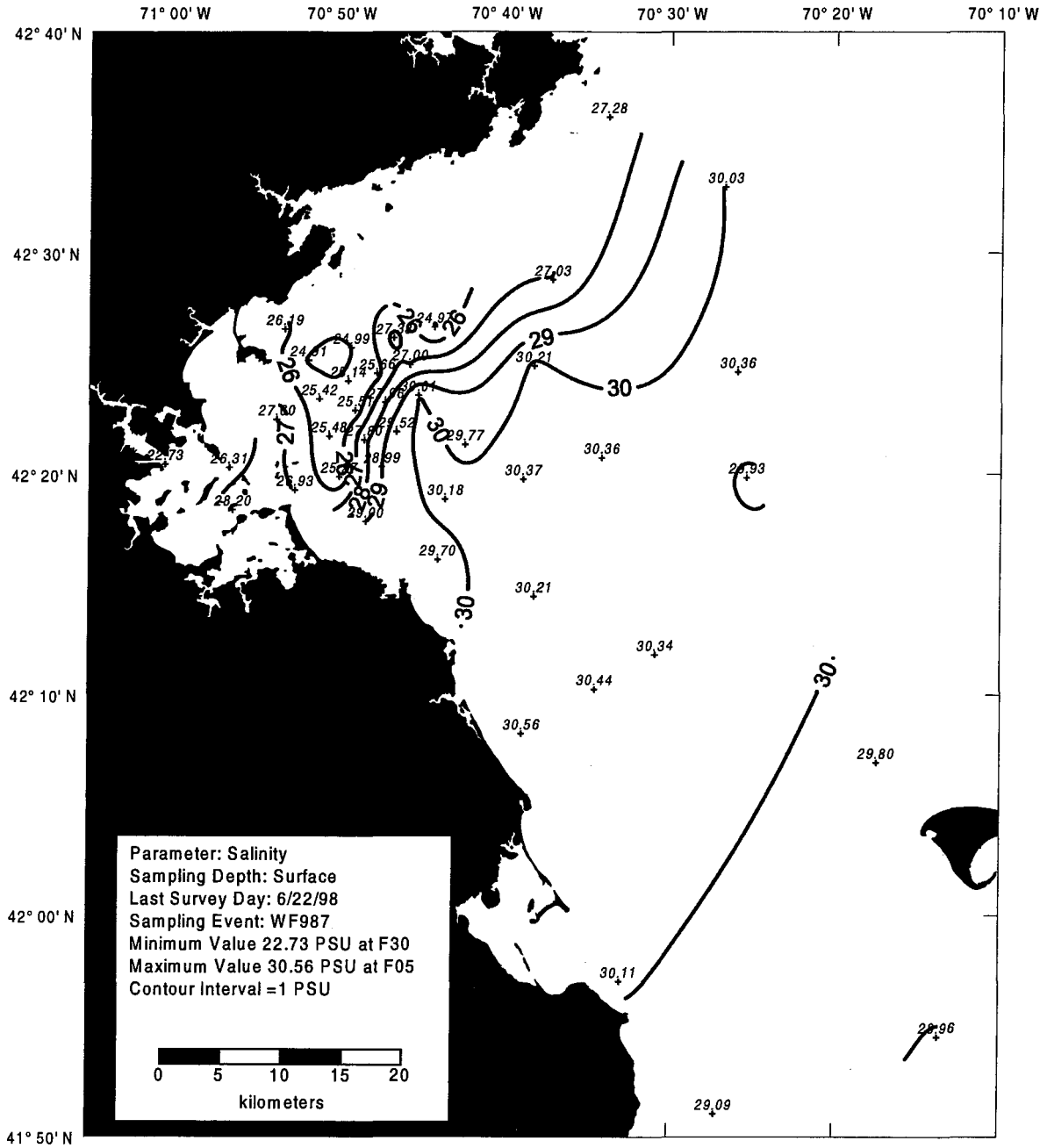


Figure B-8. Salinity Surface Contour Plot for Farfield Survey WF987 (Jun 98)

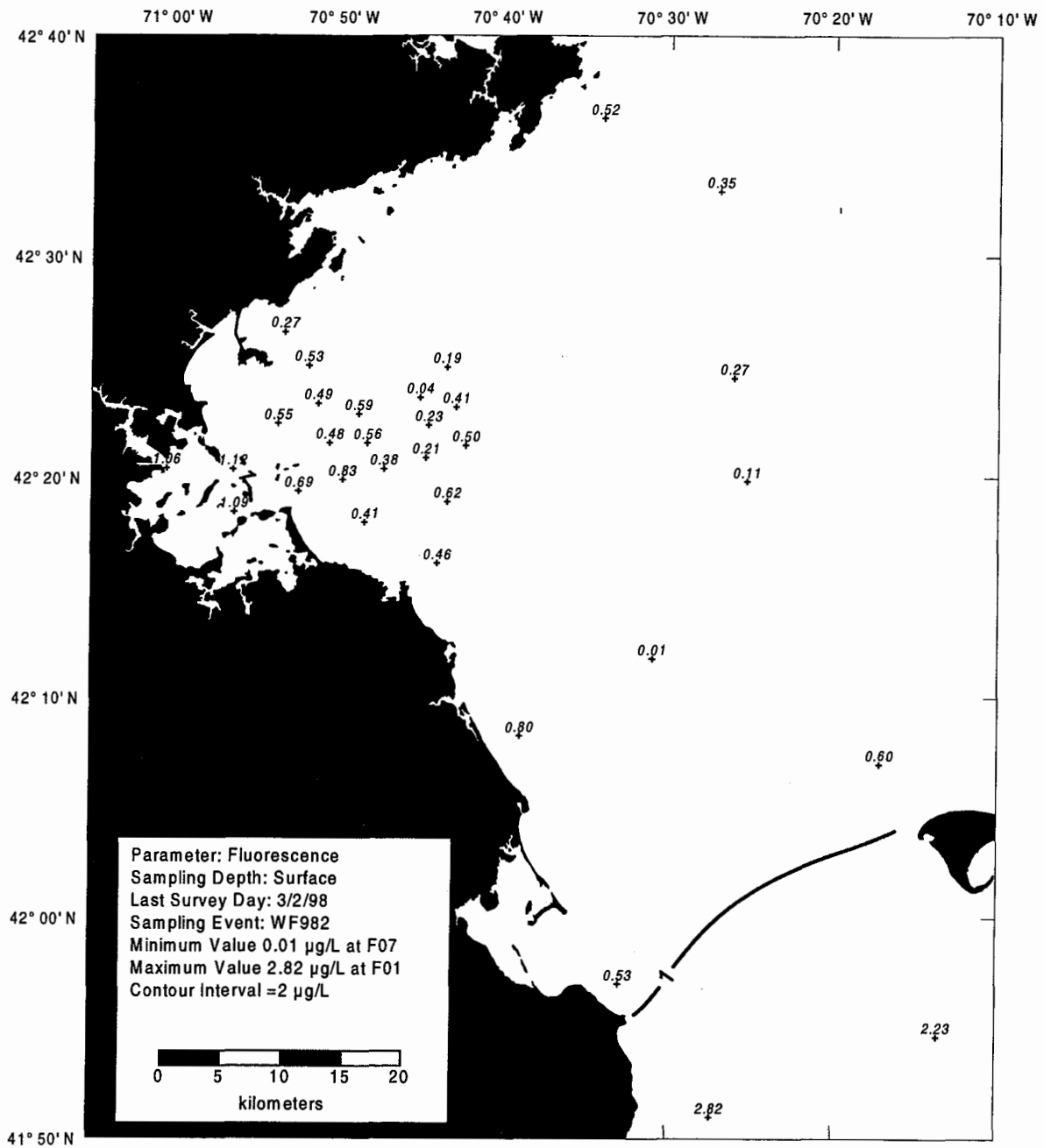


Figure B-9. Fluorescence Surface Contour Plot for Farfield Survey WF982 (Feb 98)

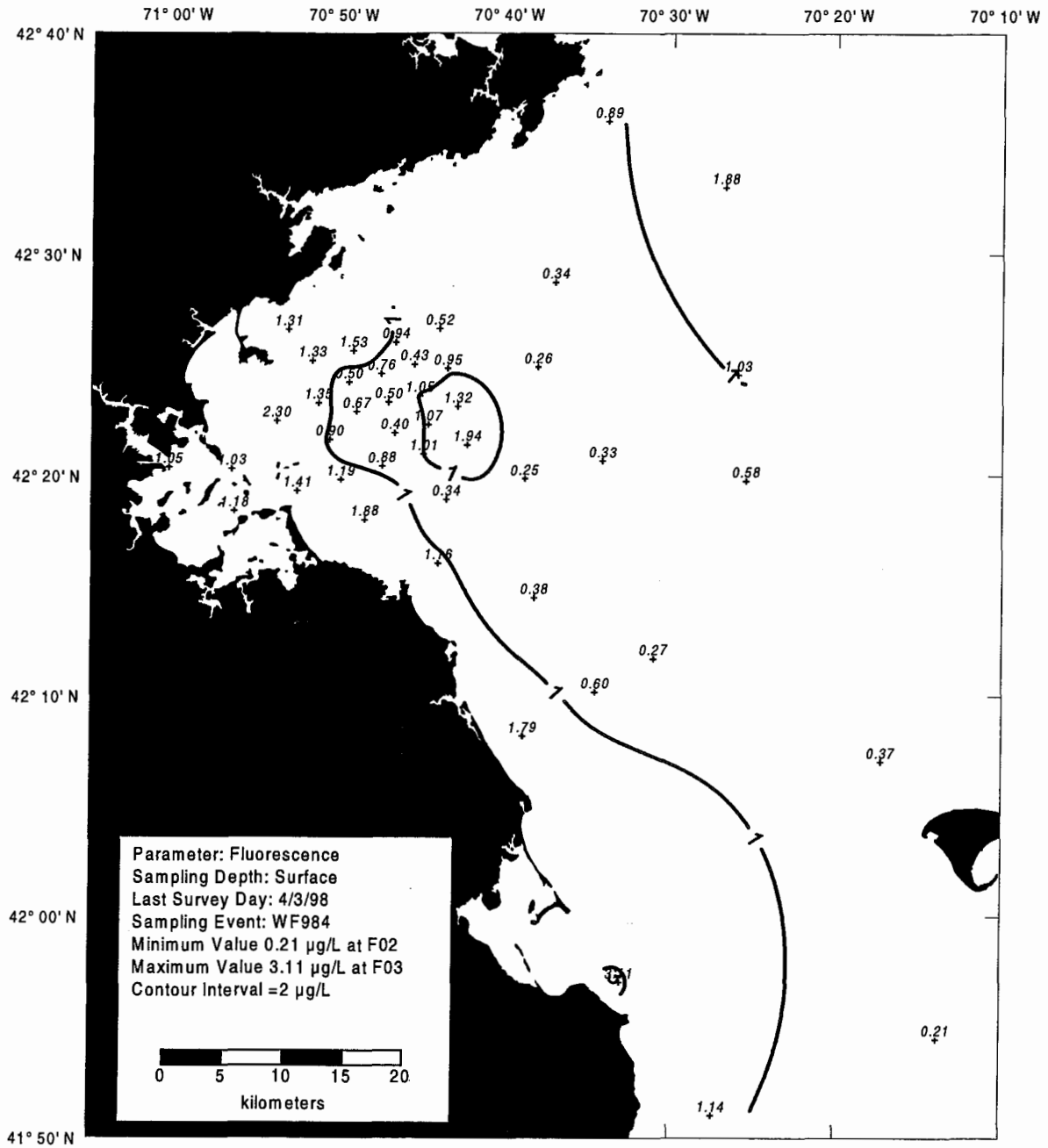


Figure B-10. Fluorescence Surface Contour Plot for Farfield Survey WF984 (Apr 98)

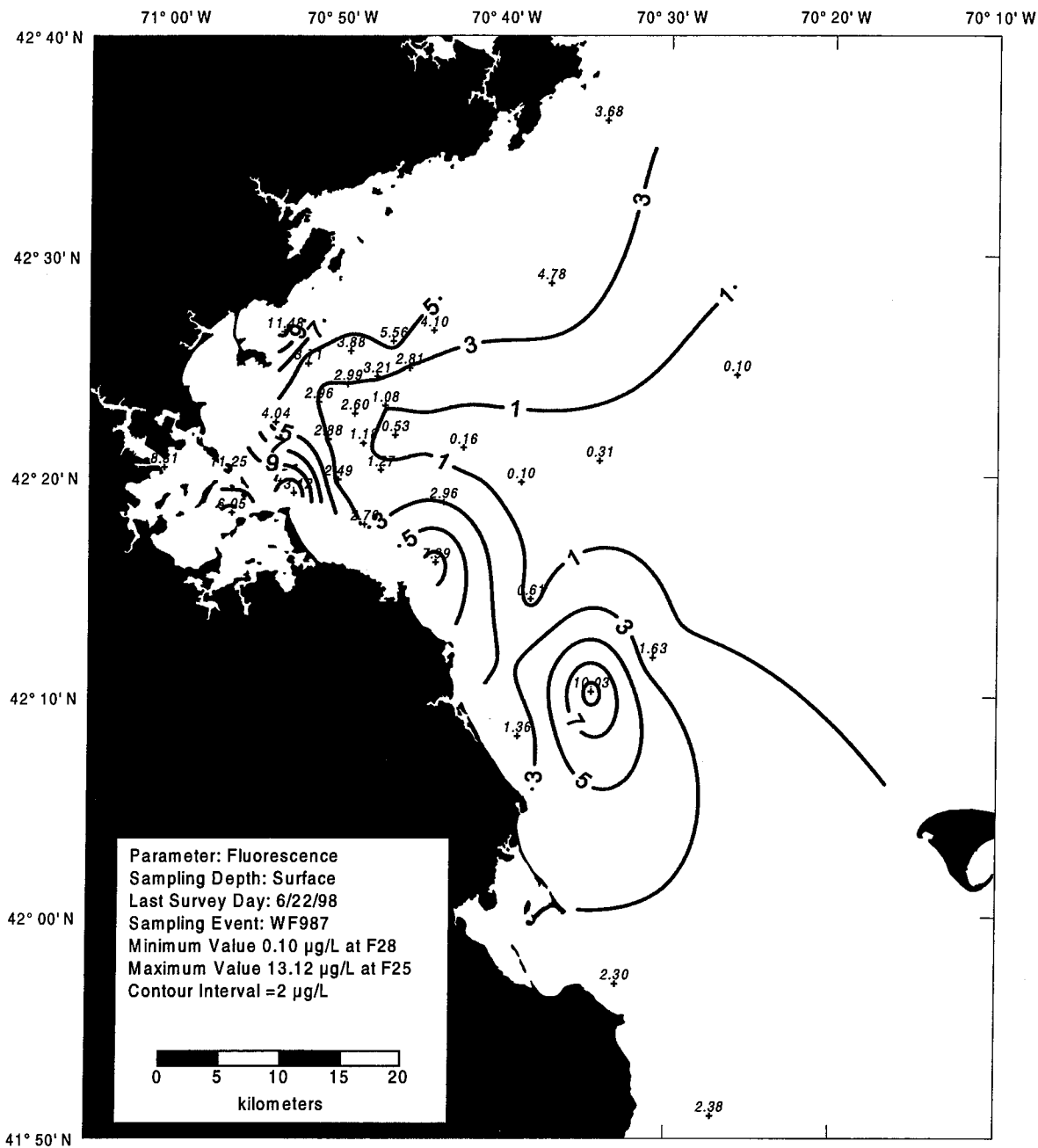


Figure B-11. Fluorescence Surface Contour Plot for Farfield Survey WF987 (Jun 98)

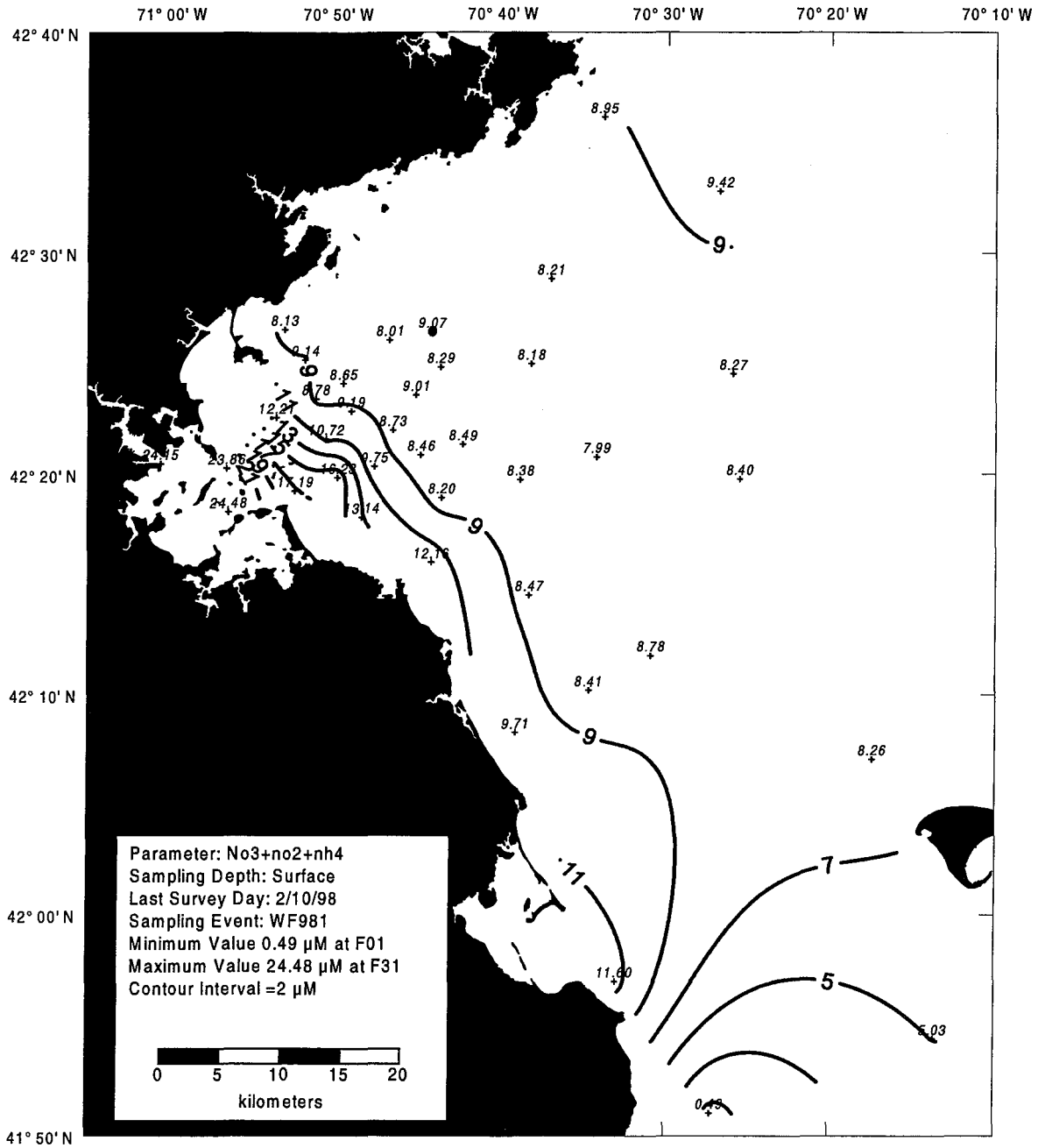


Figure B-12. DIN Surface Contour Plot for Farfield Survey WF981 (Feb 98)

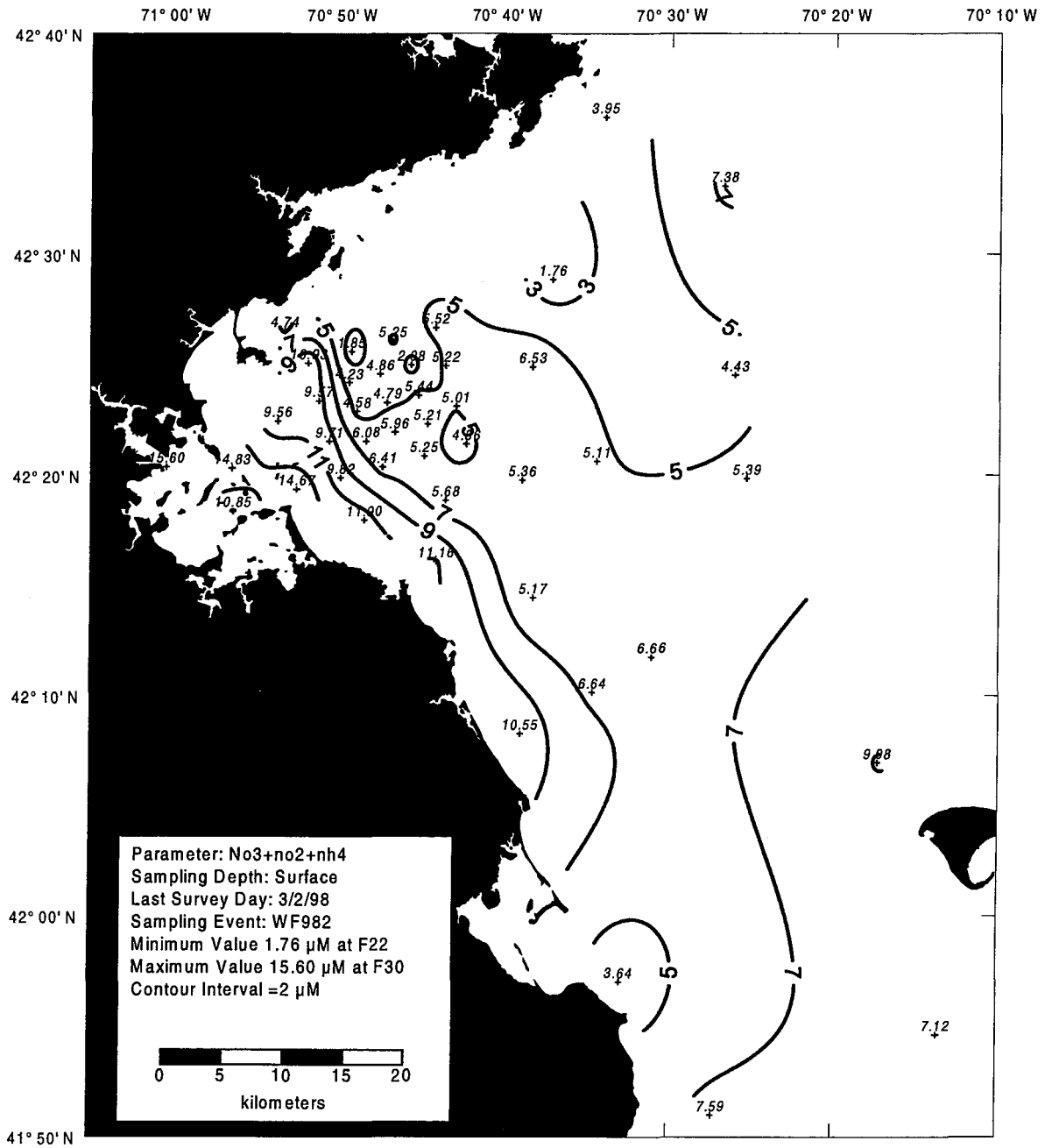


Figure B-13. DIN Surface Contour Plot for Farfield Survey WF982 (Feb 98)

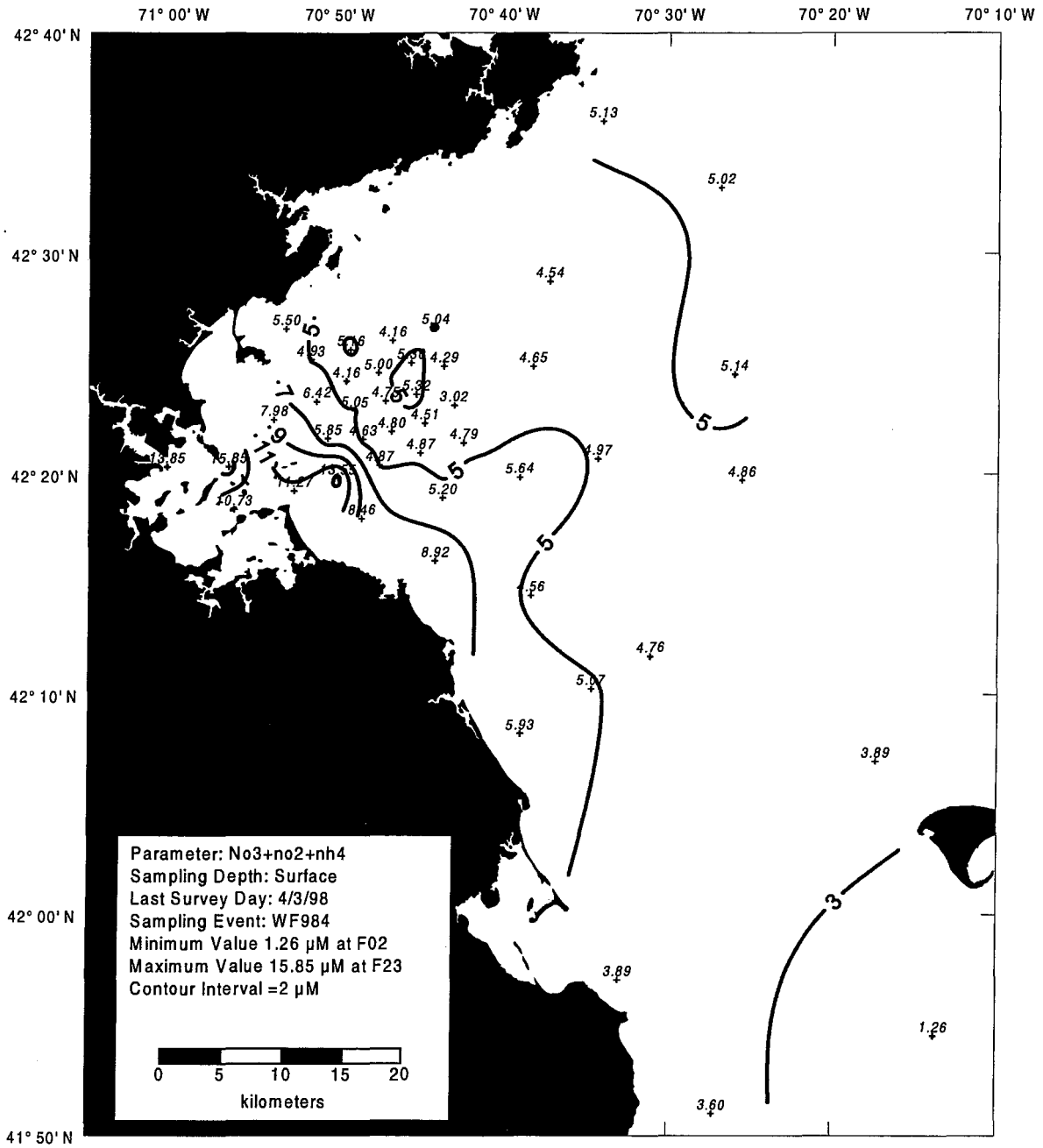


Figure B-14. DIN Surface Contour Plot for Farfield Survey WF984 (Apr 98)

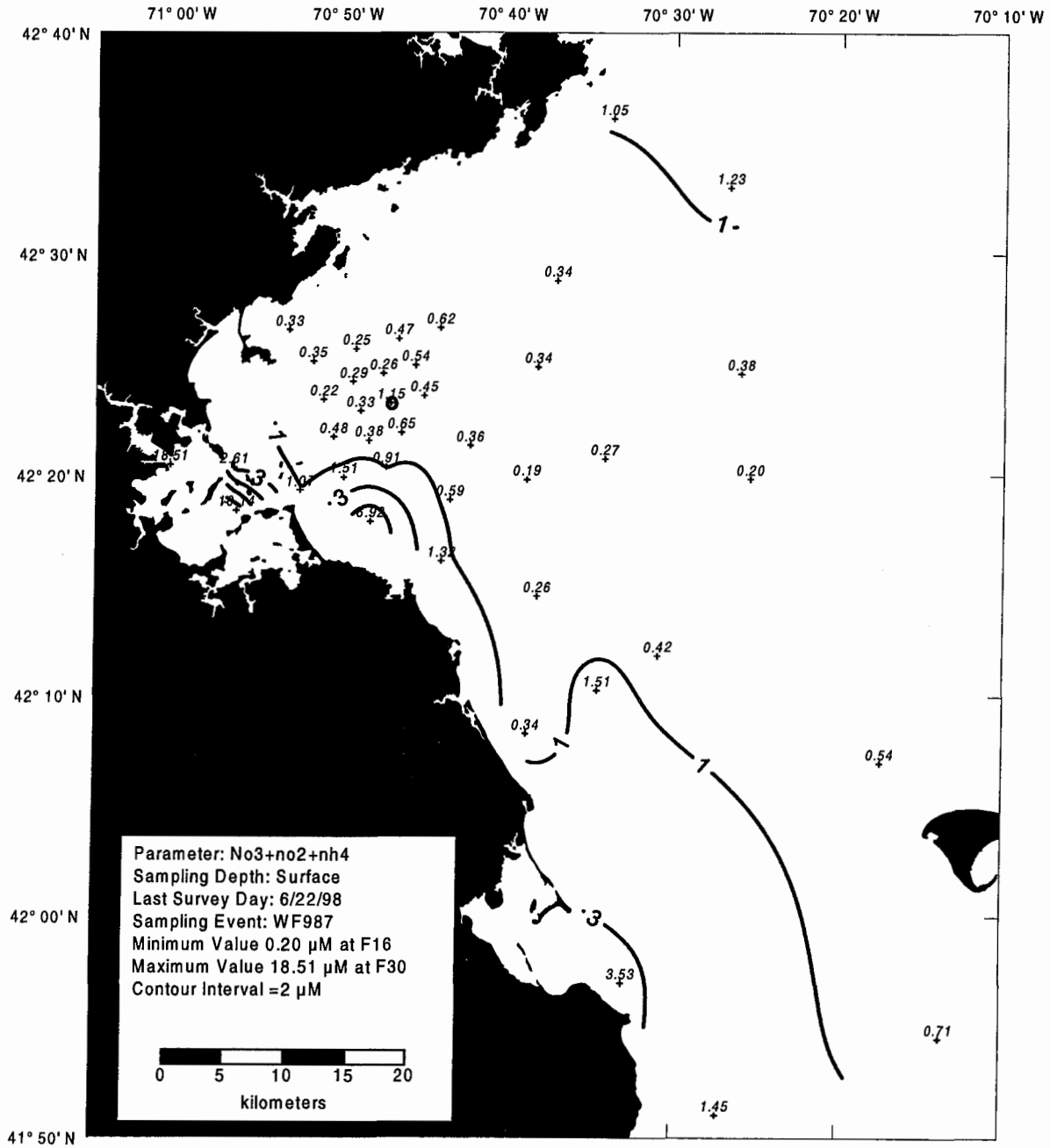


Figure B-15. DIN Surface Contour Plot for Farfield Survey WF987 (Jun 98)

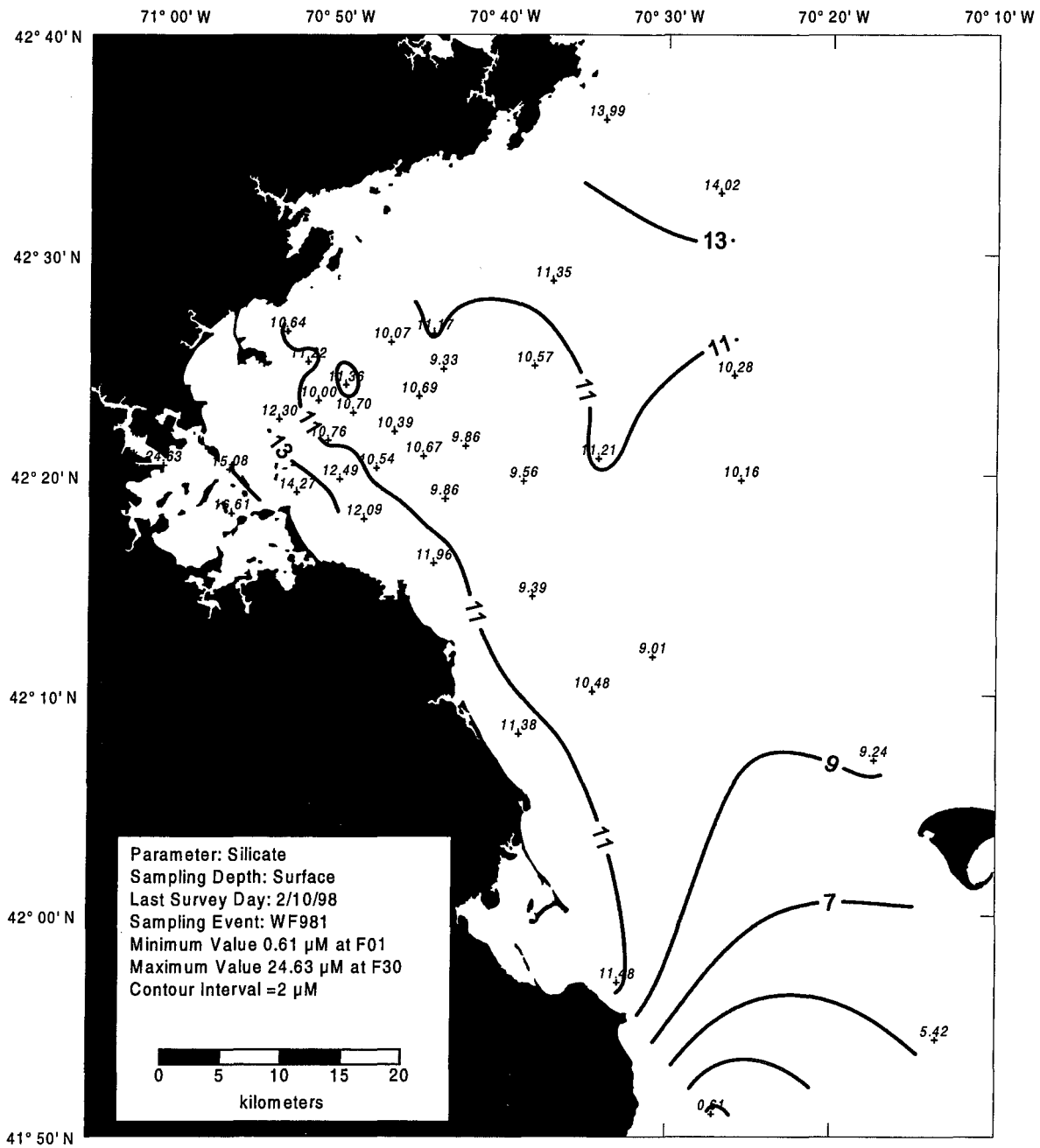


Figure B-16. Silicate Surface Contour Plot for Farfield Survey WF981 (Feb 98)

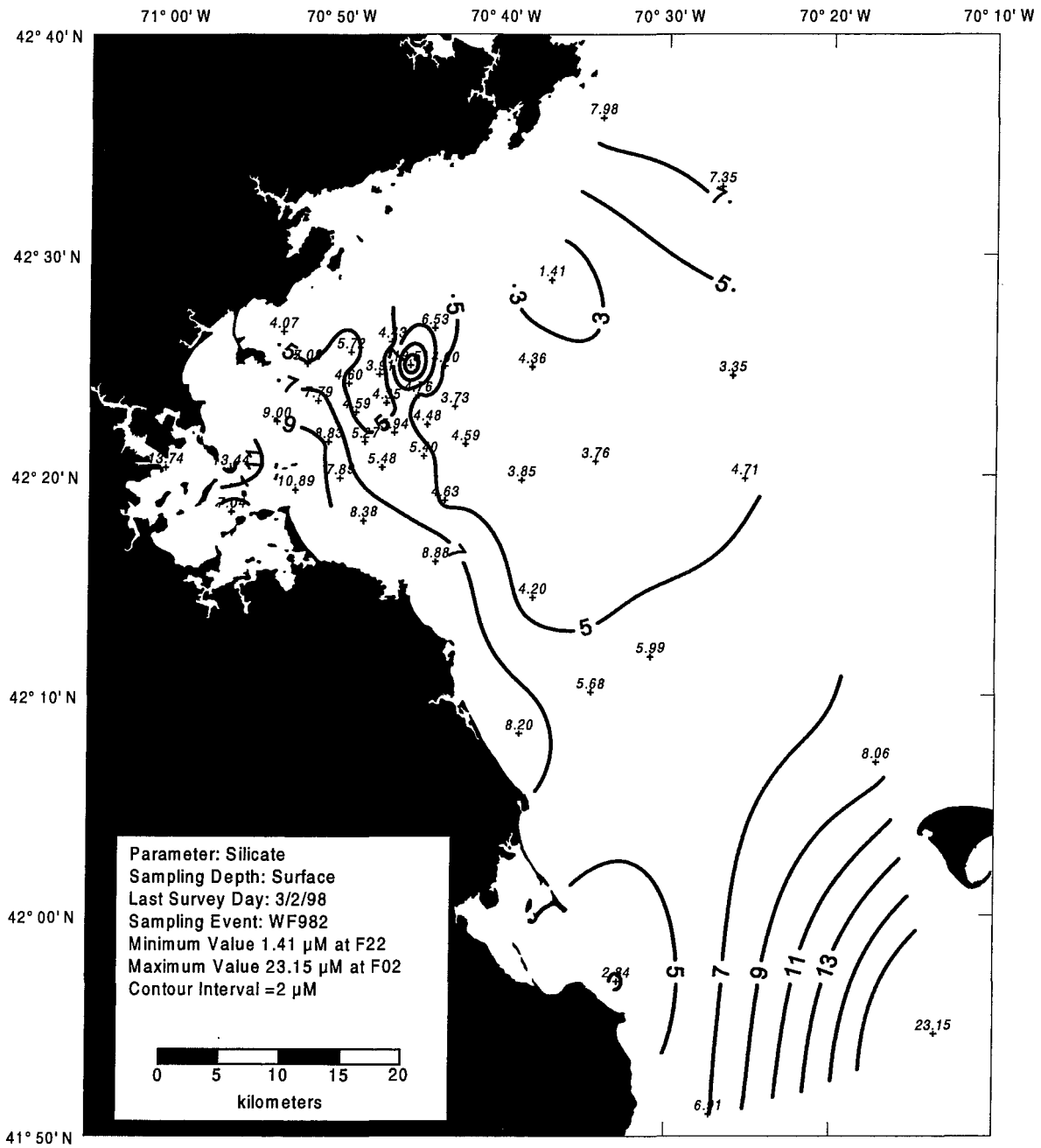


Figure B-17. Silicate Surface Contour Plot for Farfield Survey WF982 (Feb 98)

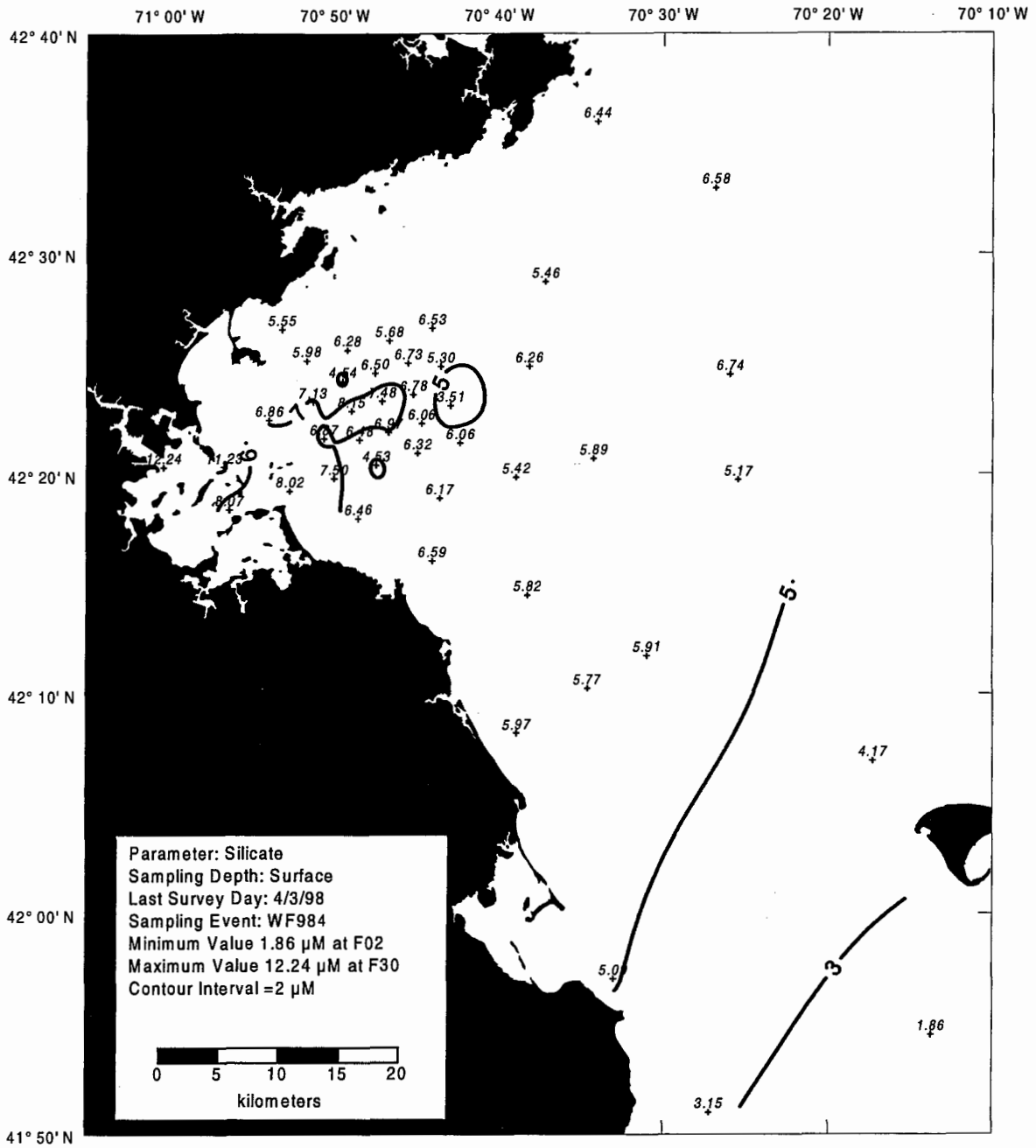


Figure B-18. Silicate Surface Contour Plot for Farfield Survey WF984 (Apr 98)

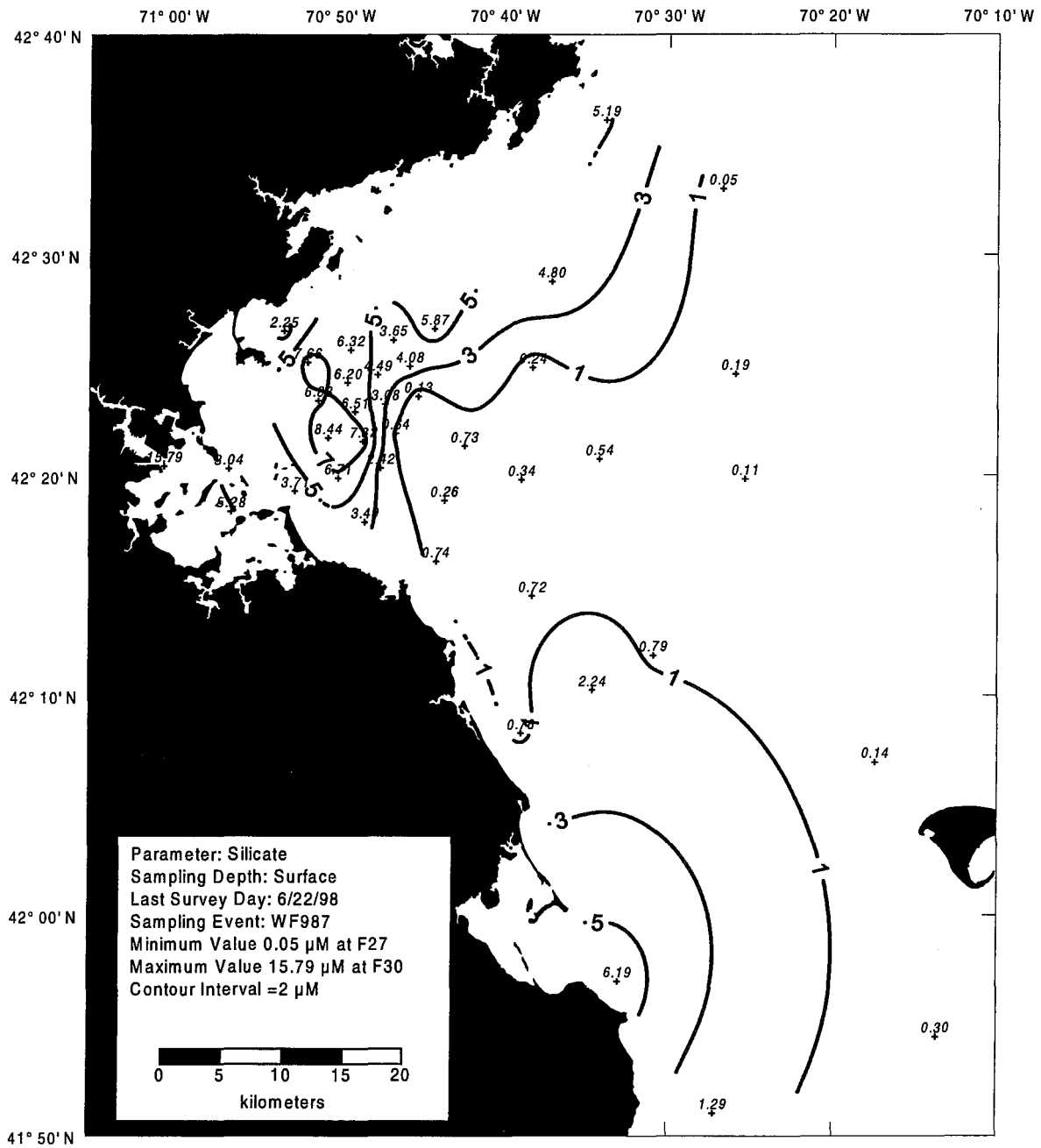


Figure B-19. Silicate Surface Contour Plot for Farfield Survey WF987 (Jun 98)

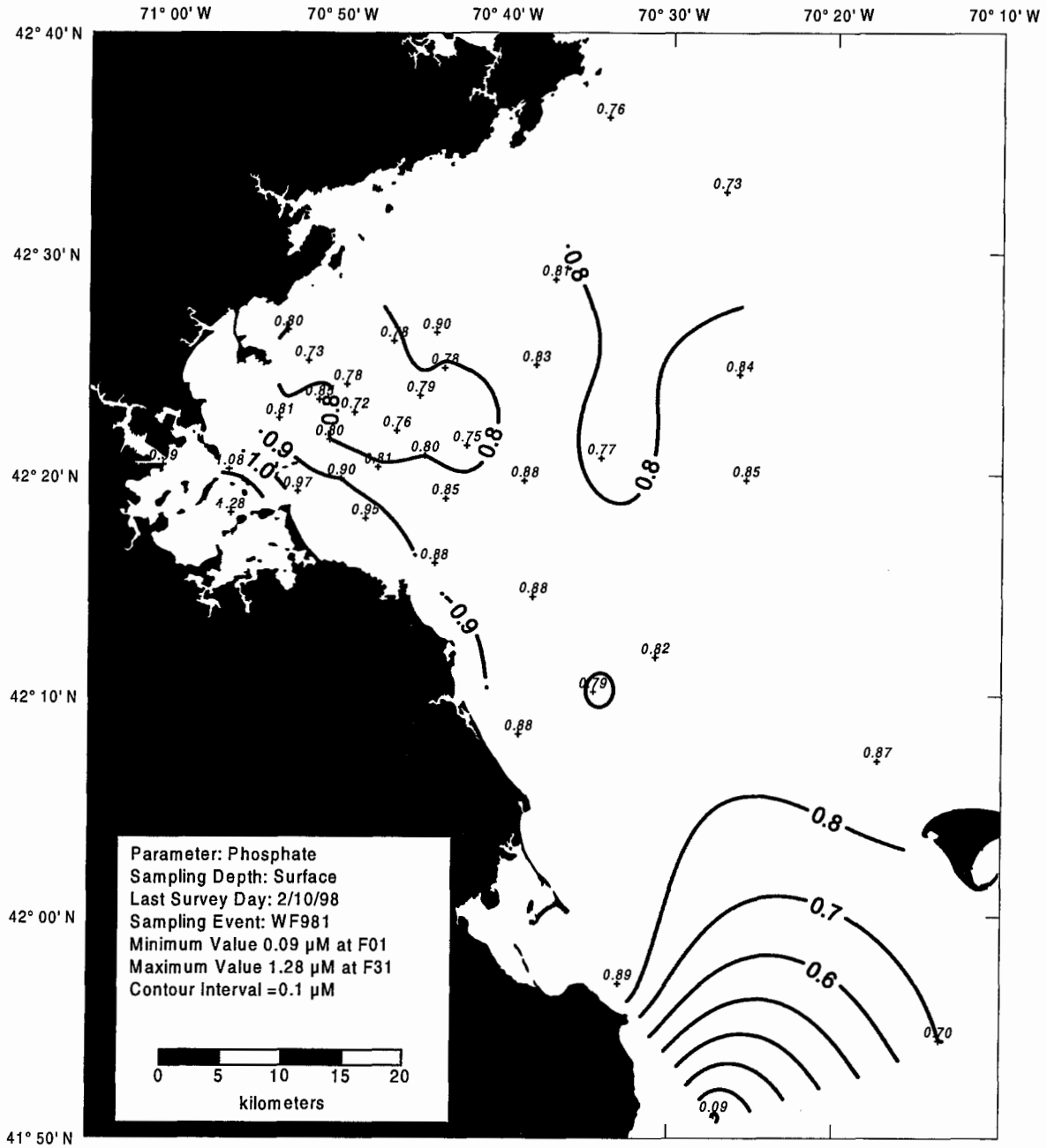


Figure B-20. Phosphate Surface Contour Plot for Farfield Survey WF981 (Feb 98)

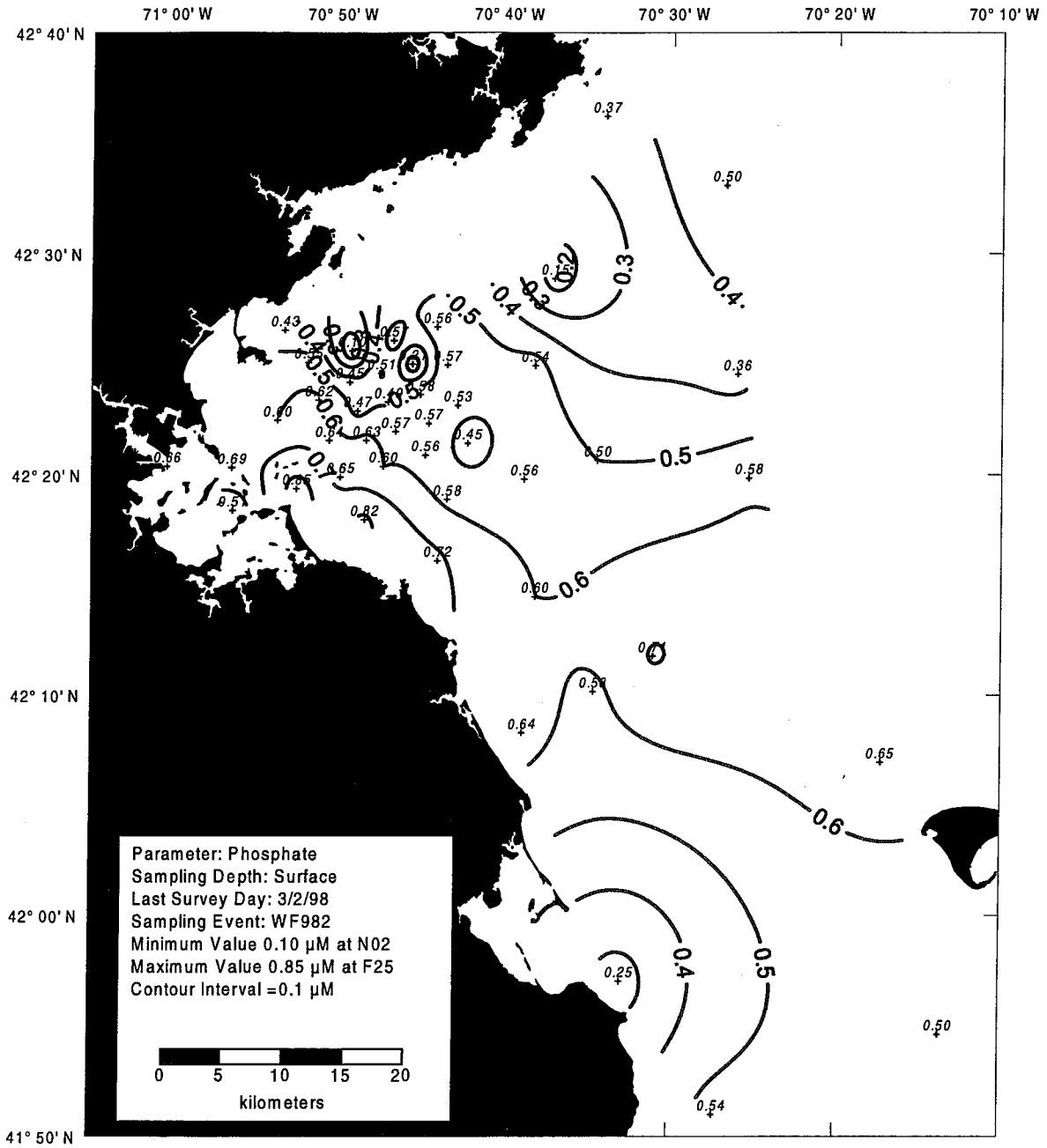


Figure B-21. Phosphate Surface Contour Plot for Farfield Survey WF982 (Feb 98)

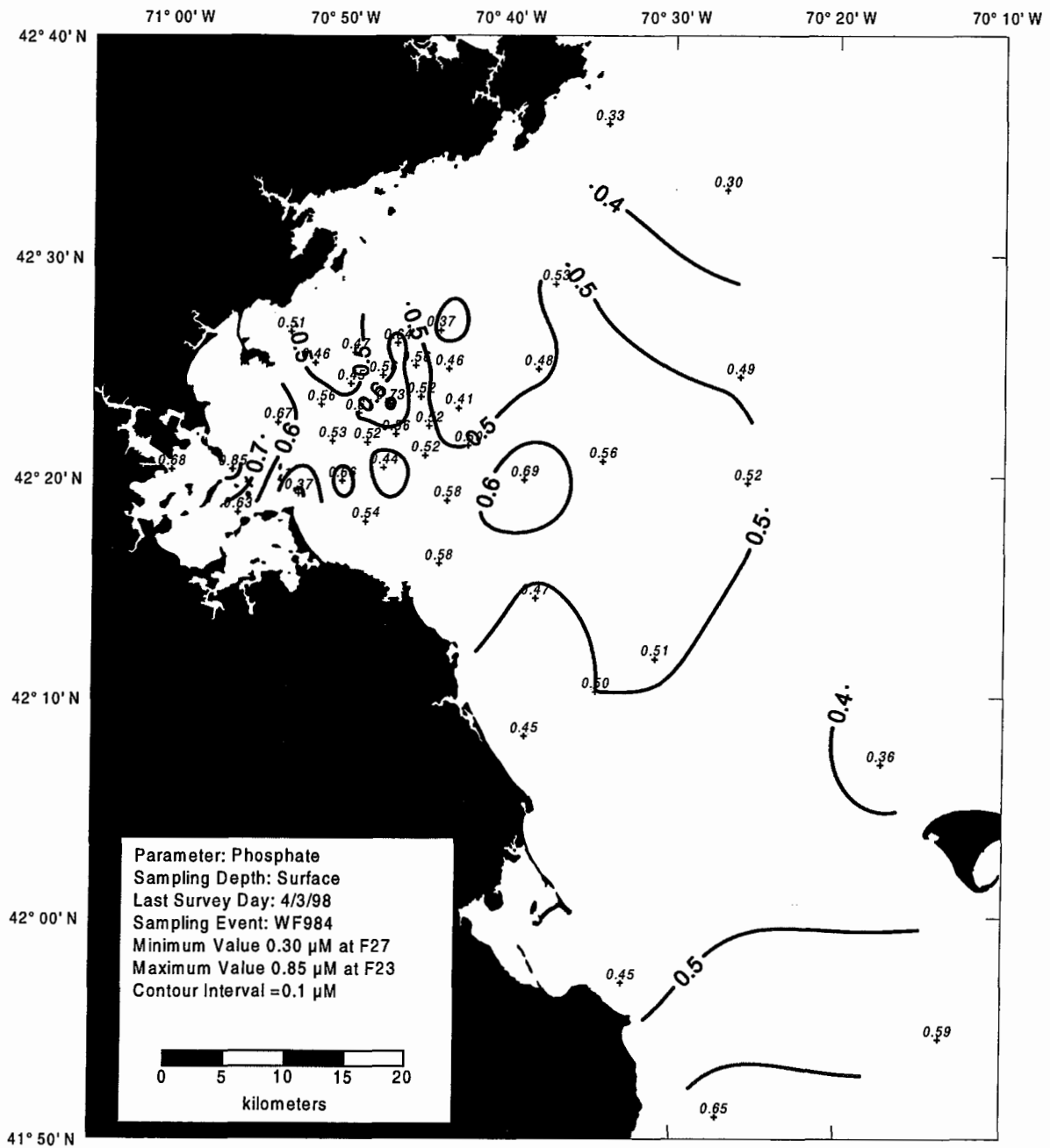


Figure B-22. Phosphate Surface Contour Plot for Farfield Survey WF984 (Apr 98)

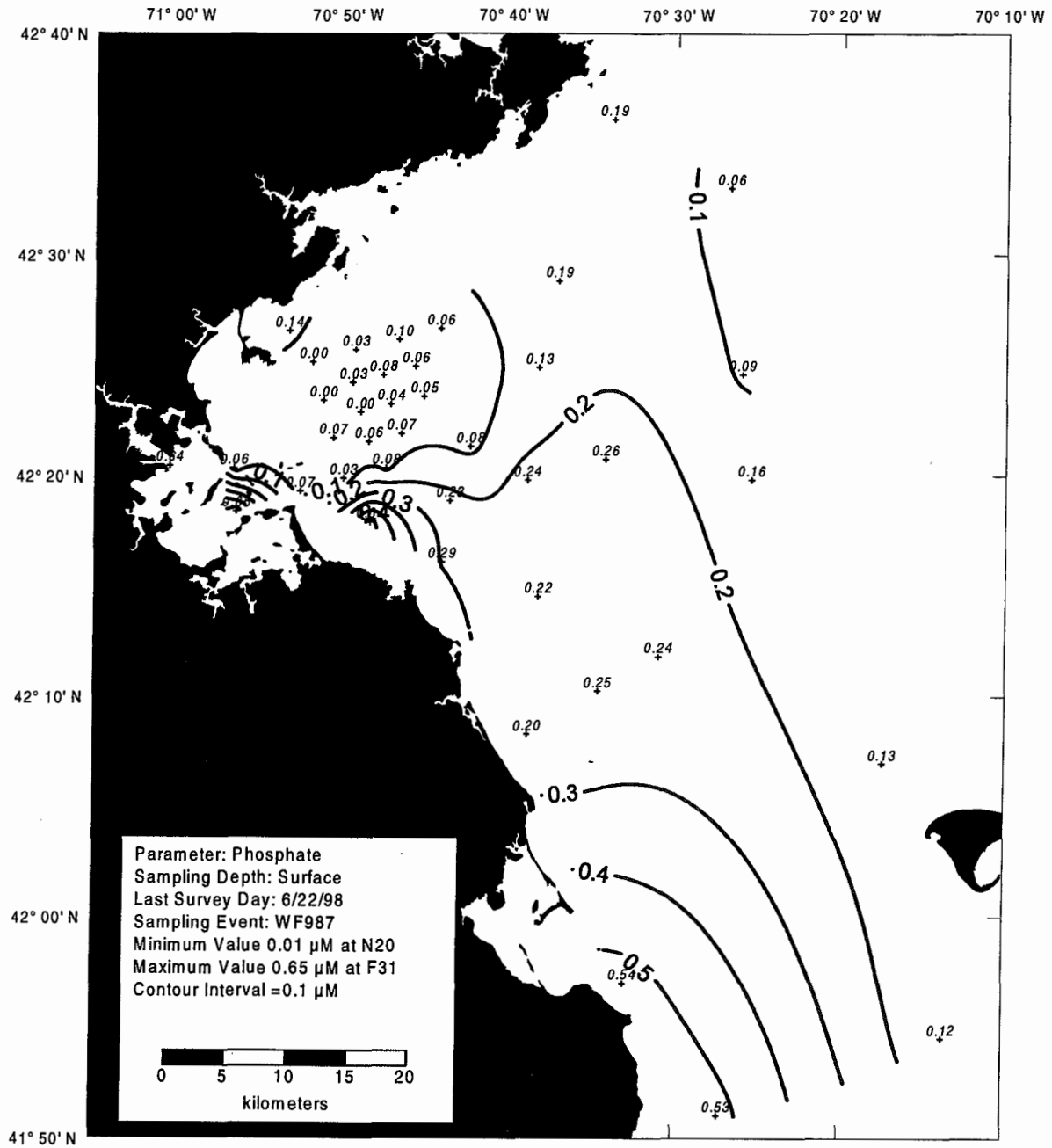


Figure B-23. Phosphate Surface Contour Plot for Farfield Survey WF987 (Jun 98)

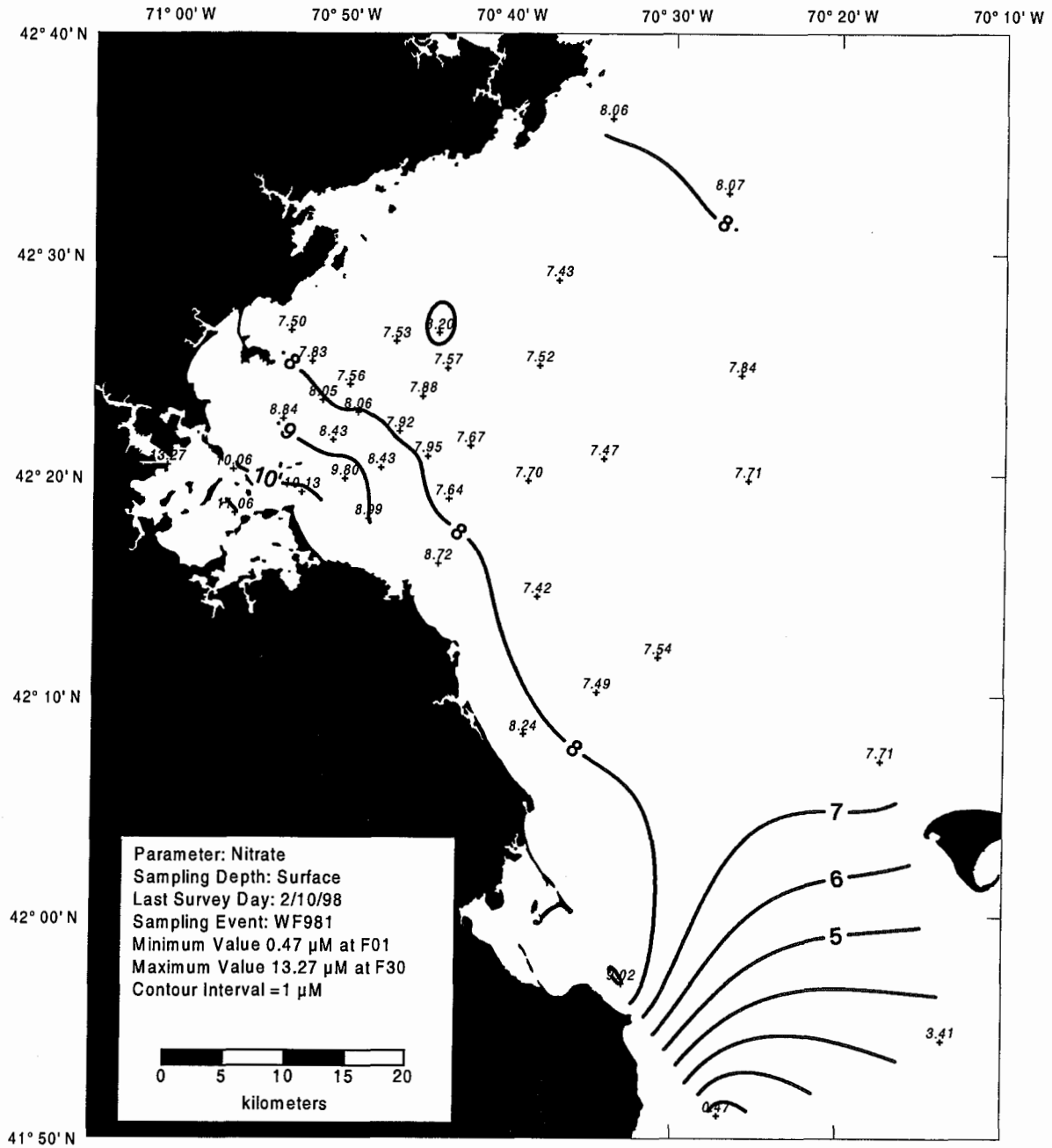


Figure B-24. Nitrate Surface Contour Plot for Farfield Survey WF981 (Feb 98)

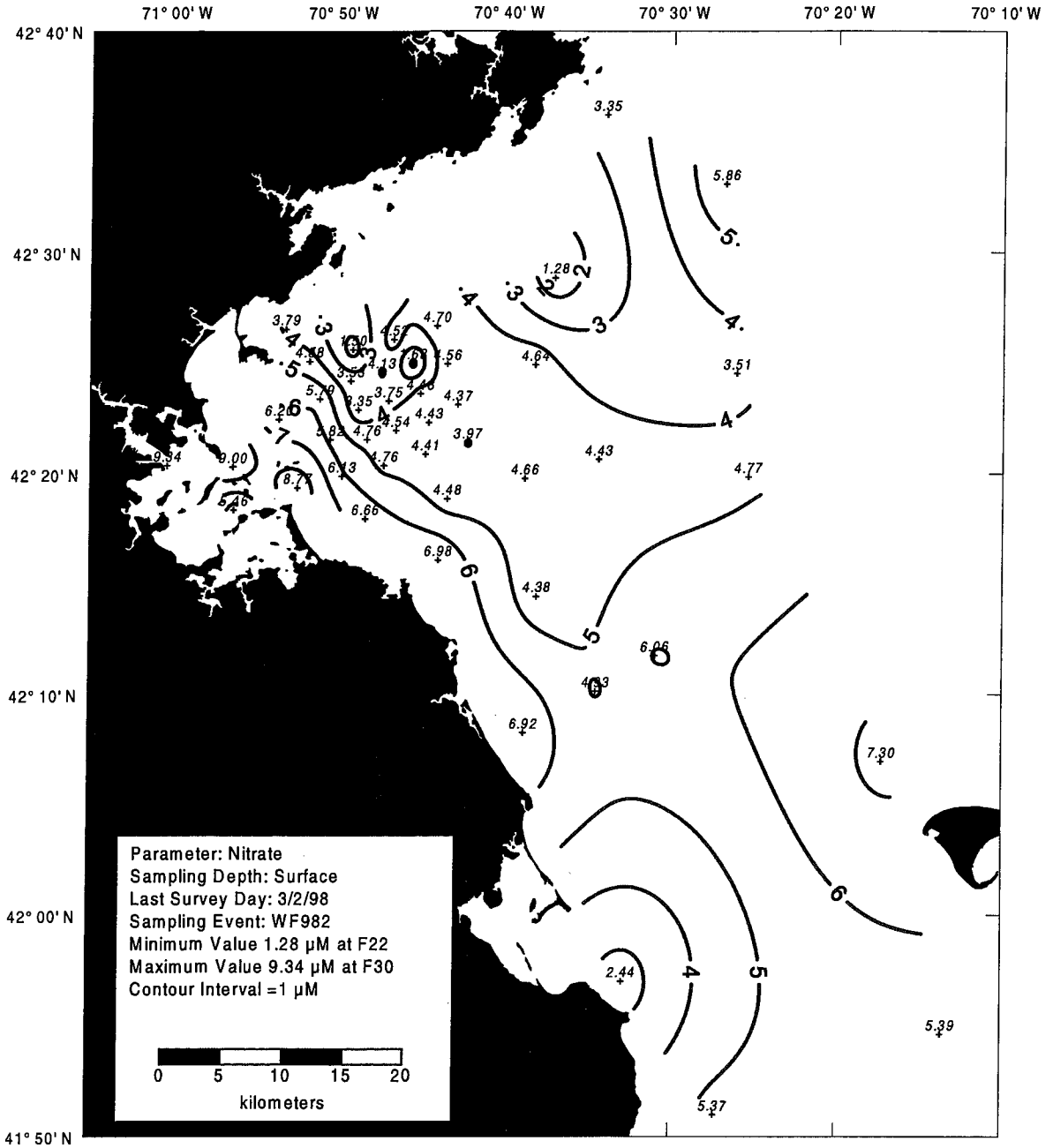


Figure B-25. Nitrate Surface Contour Plot for Farfield Survey WF982 (Feb 98)

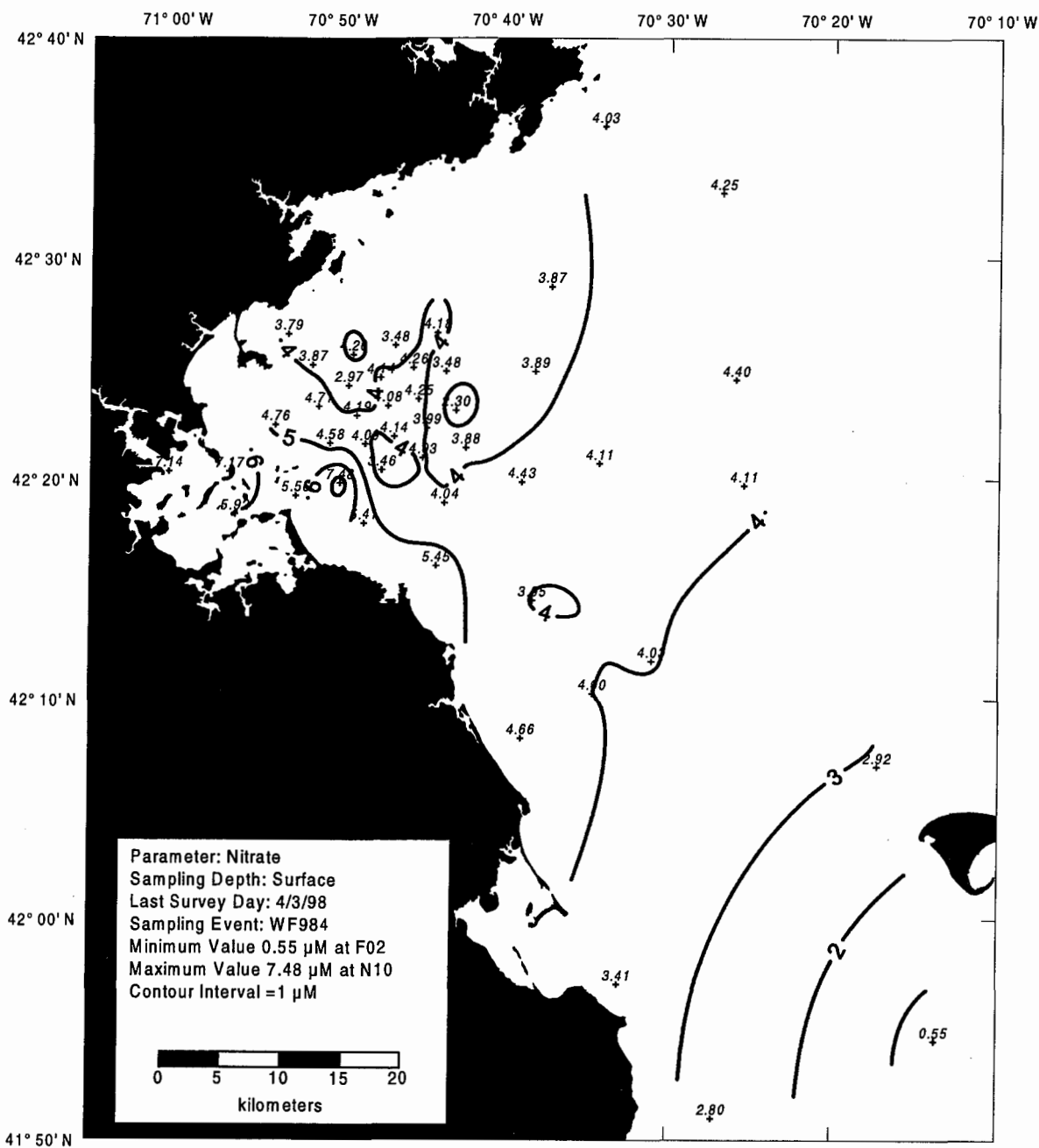


Figure B-26. Nitrate Surface Contour Plot for Farfield Survey WF984 (Apr 98)

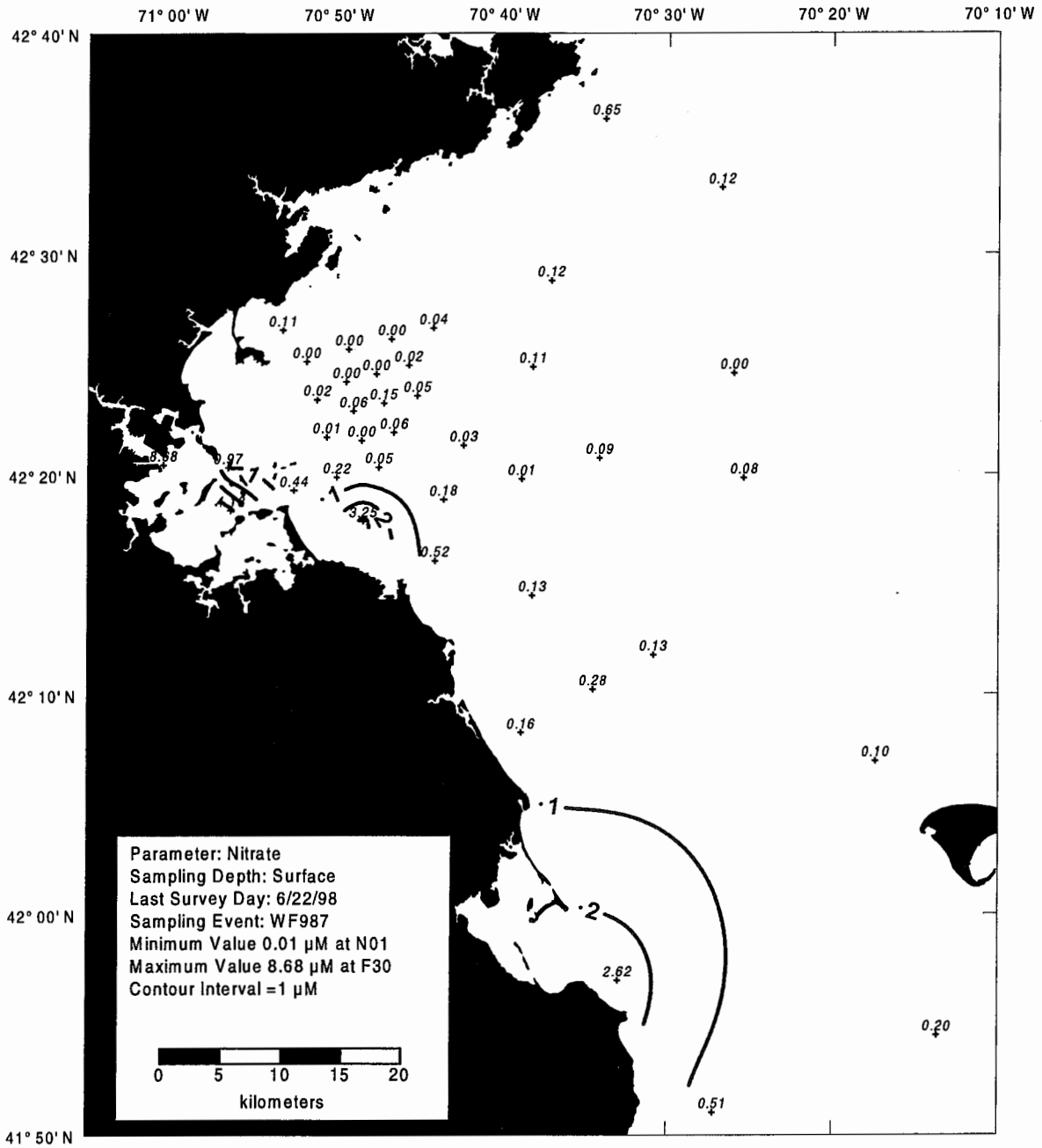


Figure B-27. Nitrate Surface Contour Plot for Farfield Survey WF987 (Jun 98)

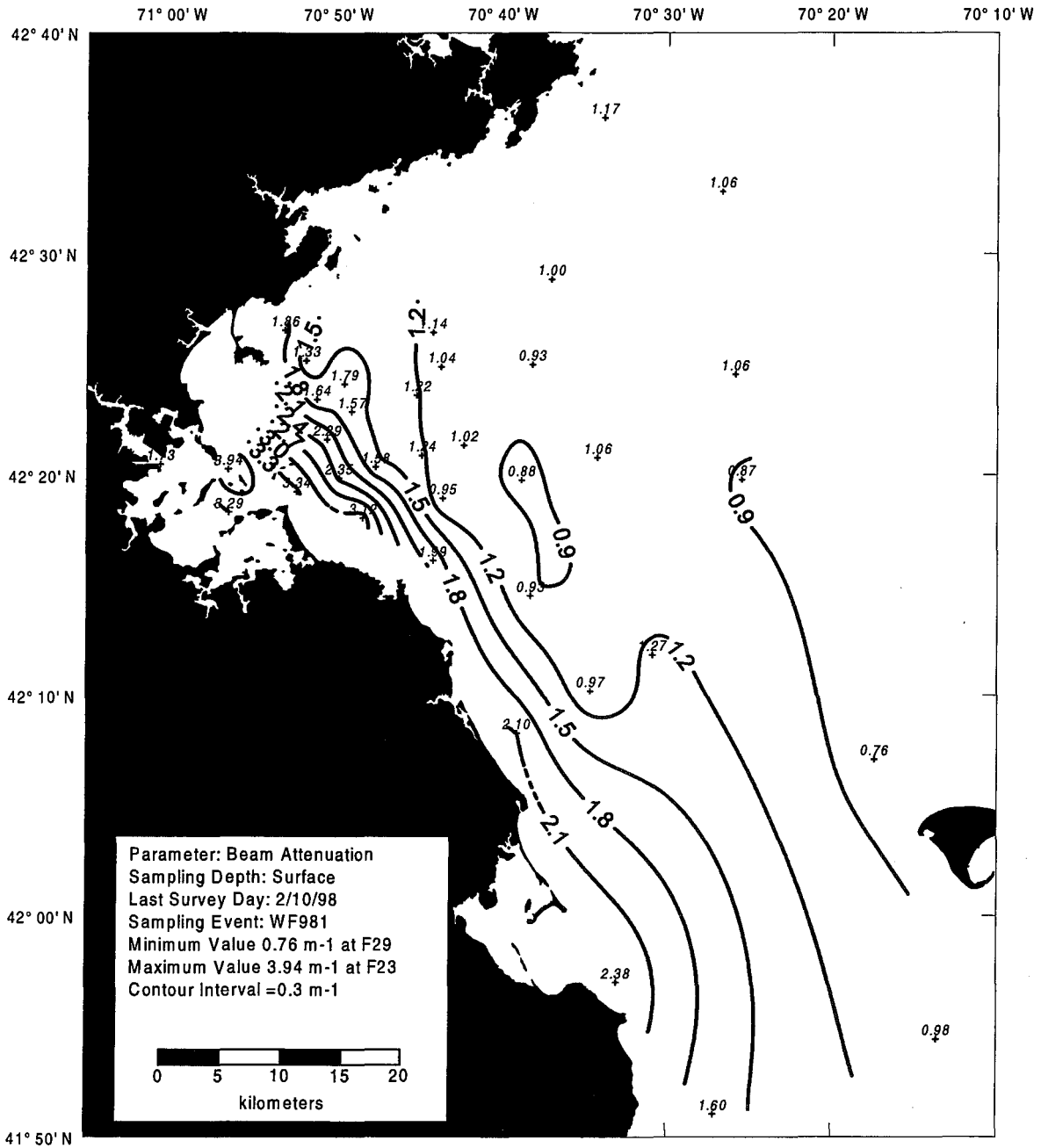


Figure B-28. Transmissivity Surface Contour Plot for Farfield Survey WF981 (Feb 98)

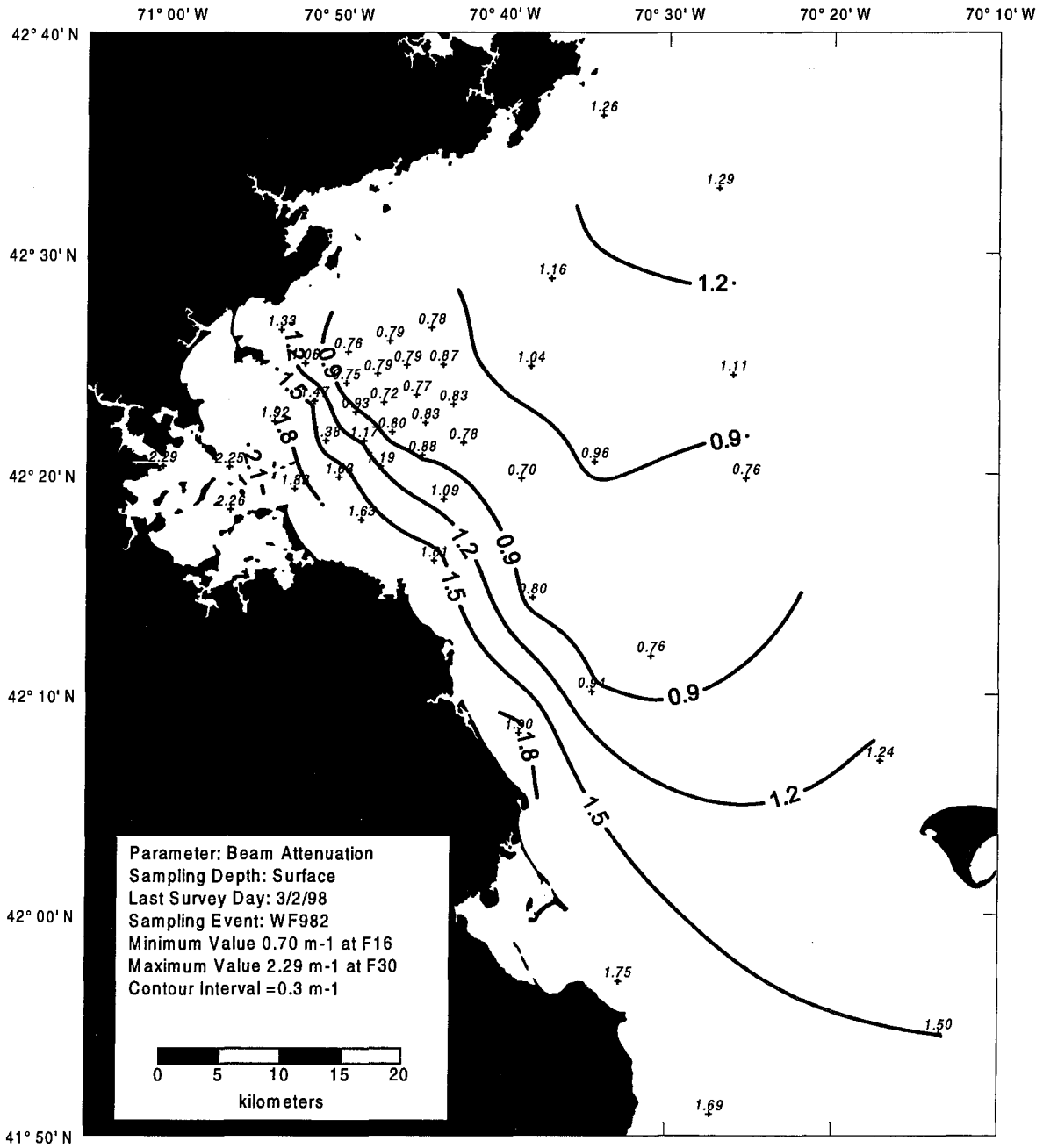


Figure B-29. Transmissivity Surface Contour Plot for Farfield Survey WF982 (Feb 98)

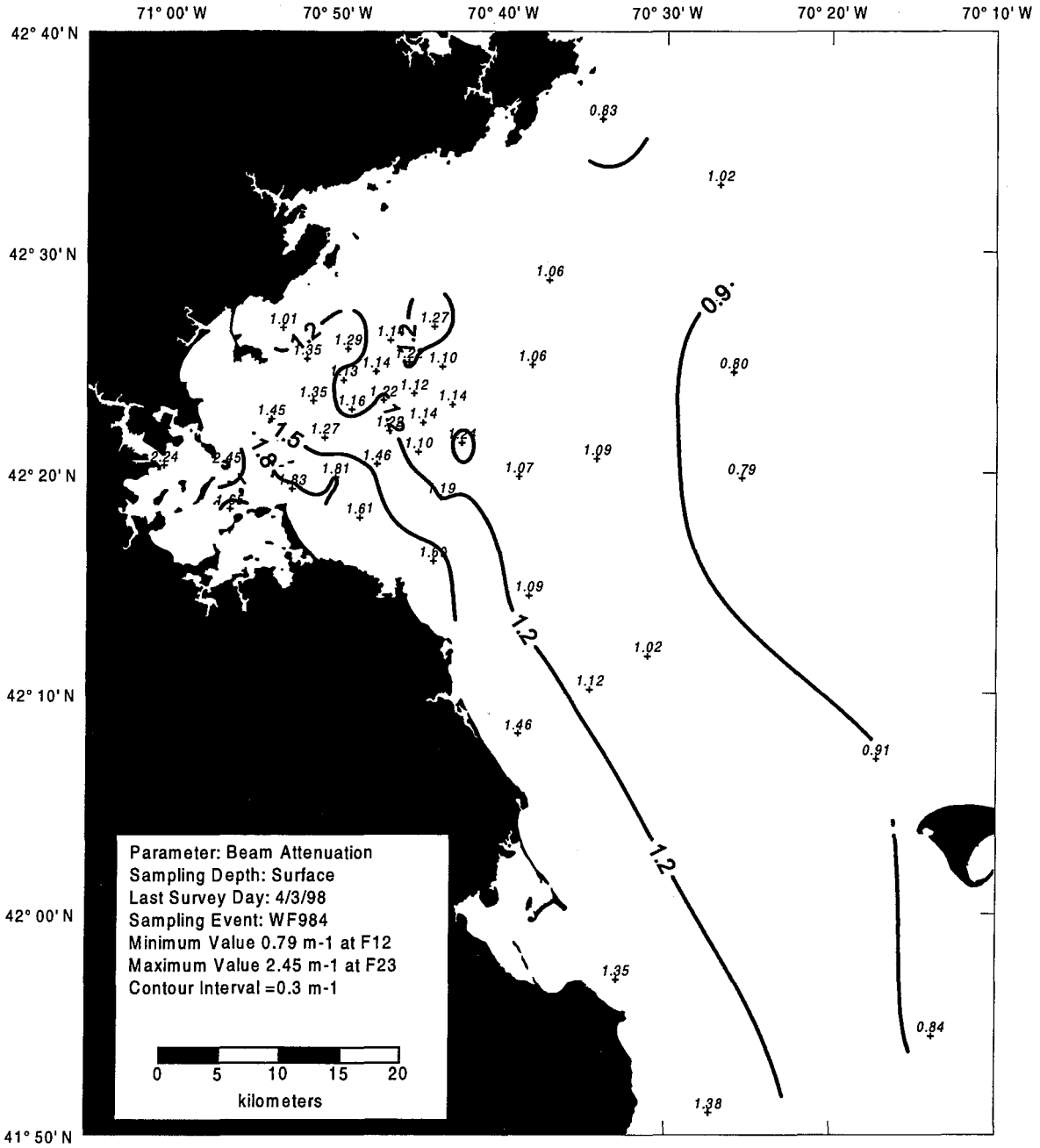


Figure B-30. Transmissivity Surface Contour Plot for Farfield Survey WF984 (Apr 98)

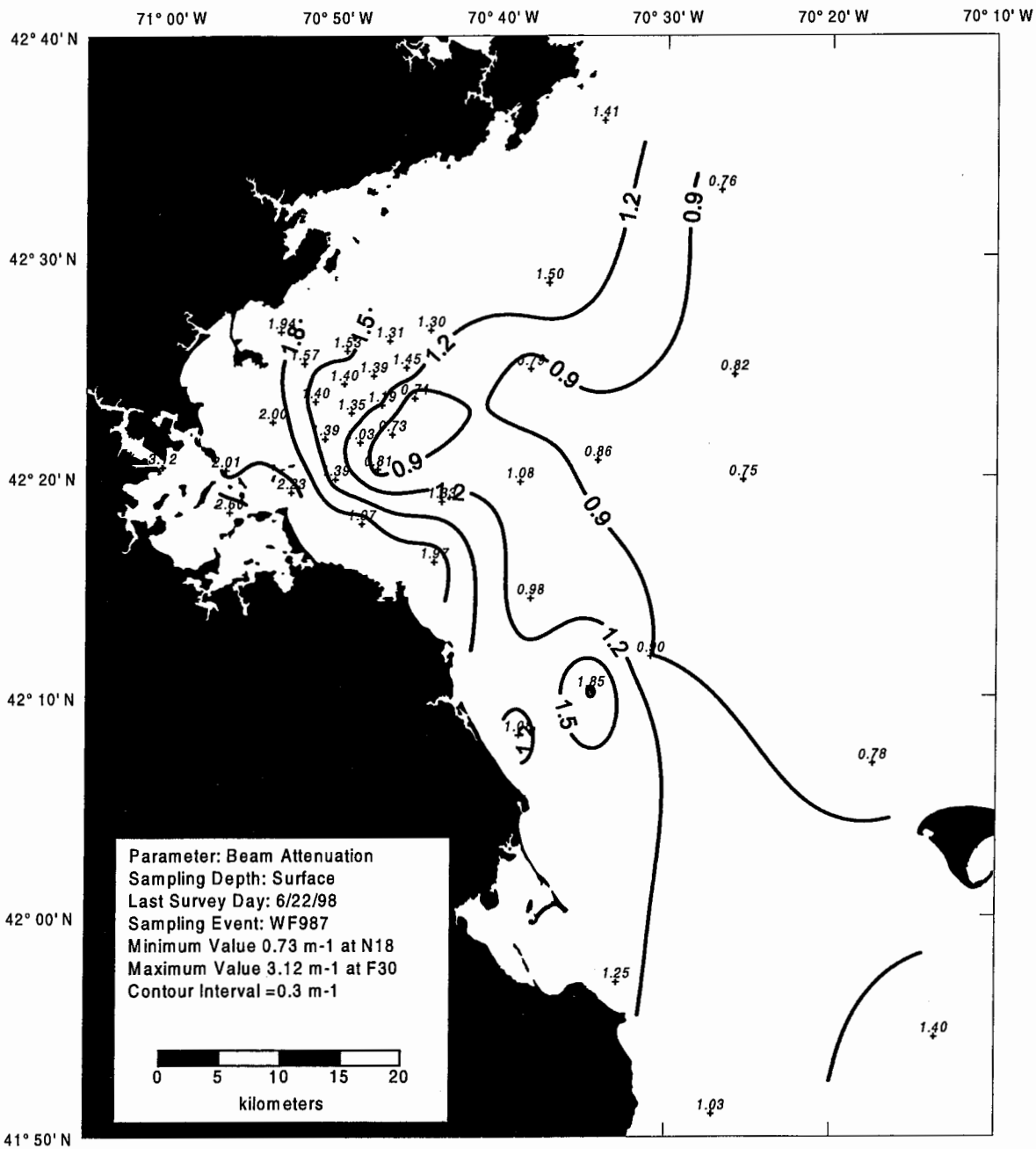


Figure B-31. Transmissivity Surface Contour Plot for Farfield Survey WF987 (Jun 98)

APPENDIX C

Transect Plots

Transect Plots – Farfield Surveys

Data were contoured relative to water depth and distance between stations as shown on the transects (Figure 1-3). Distances between stations and water depth at each station is shown on the transect. Water depth is labeled with negative values in meters, with zero depth at the sea surface. The depth to the seabed is shown by the solid shading at the bottom of each plot. Three transects (Boston-Nearfield, Cohasset, and Marshfield) are provided on each plot, as well as shaded contour levels on the scale bar at the bottom of the plot. Contour units are as noted on the plot. Each plot is labeled on the bottom left with the parameter, survey number, and last day of the survey date. The data used for the contours were based on high-resolution *in situ* hydrographic casts and individual data points as noted below.

Parameter	Data Used
Density (Sigma-T)	High-resolution <i>in situ</i> data
Temperature	High-resolution <i>in situ</i> data
Salinity	High-resolution <i>in situ</i> data
Transmissivity	High-resolution <i>in situ</i> data
Nitrate plus Nitrite	Individual data points based on discrete water column
Phosphate	Individual data points based on discrete water column
Silicate	Individual data points based on discrete water column
Ammonium	Individual data points based on discrete water column
Fluorescence	High-resolution <i>in situ</i> data
Dissolved Oxygen	High-resolution <i>in situ</i> data

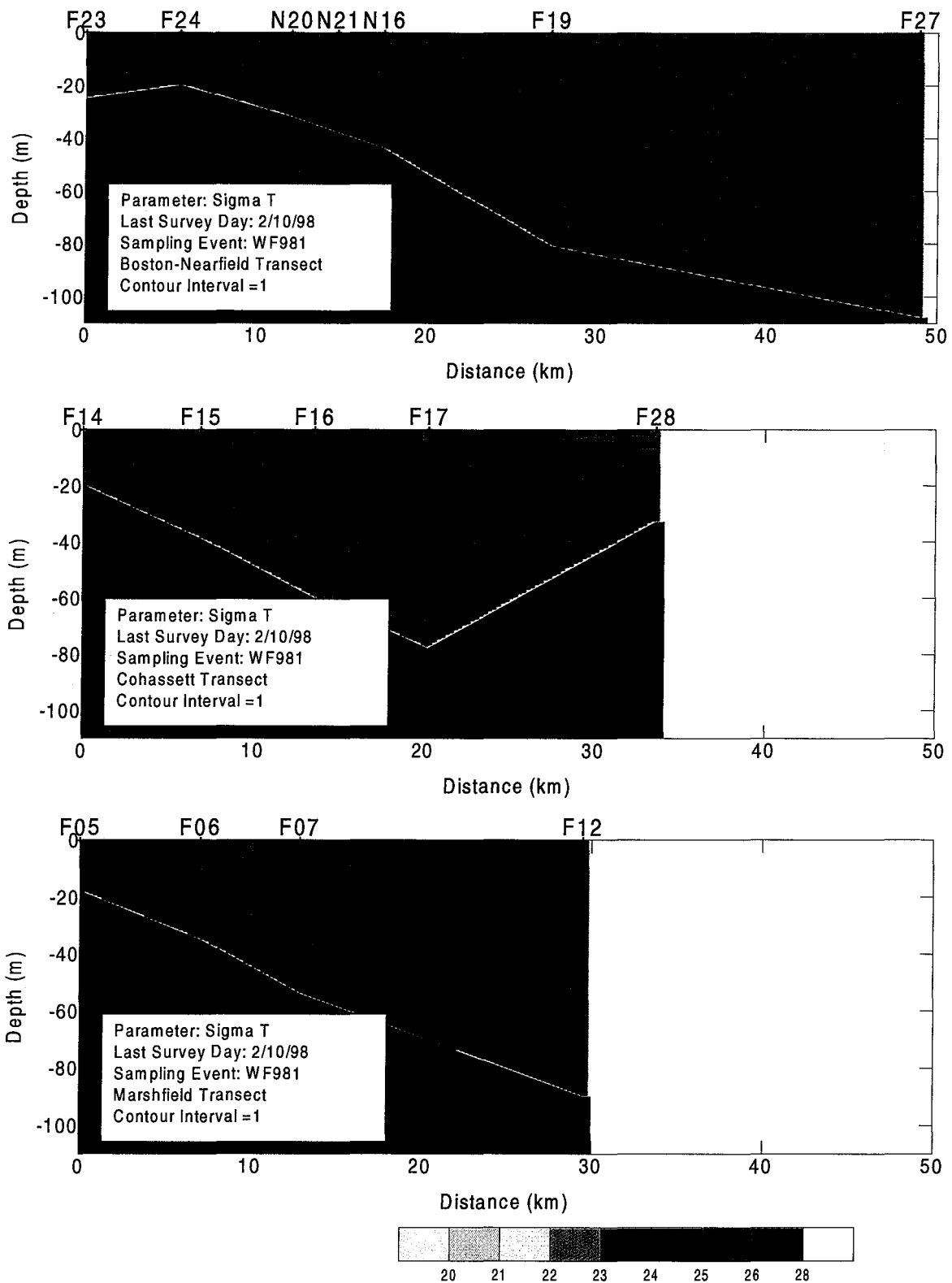


Figure C-1. Density Transect Plots (West - East) for Farfield Survey WF981 (Feb 98)

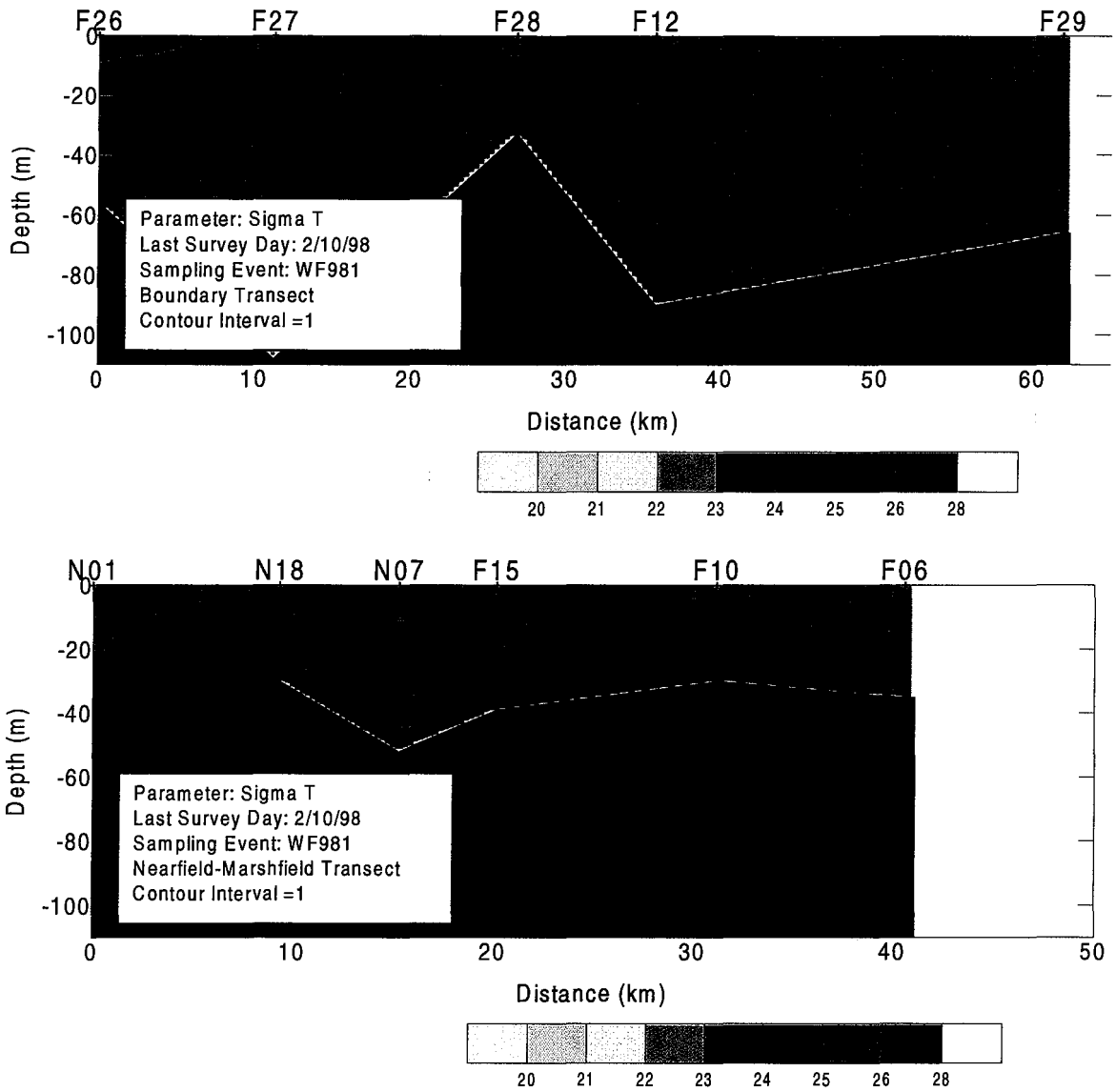


Figure C-2. Density Transect Plots (North - South) for Farfield Survey WF981 (Feb 98)

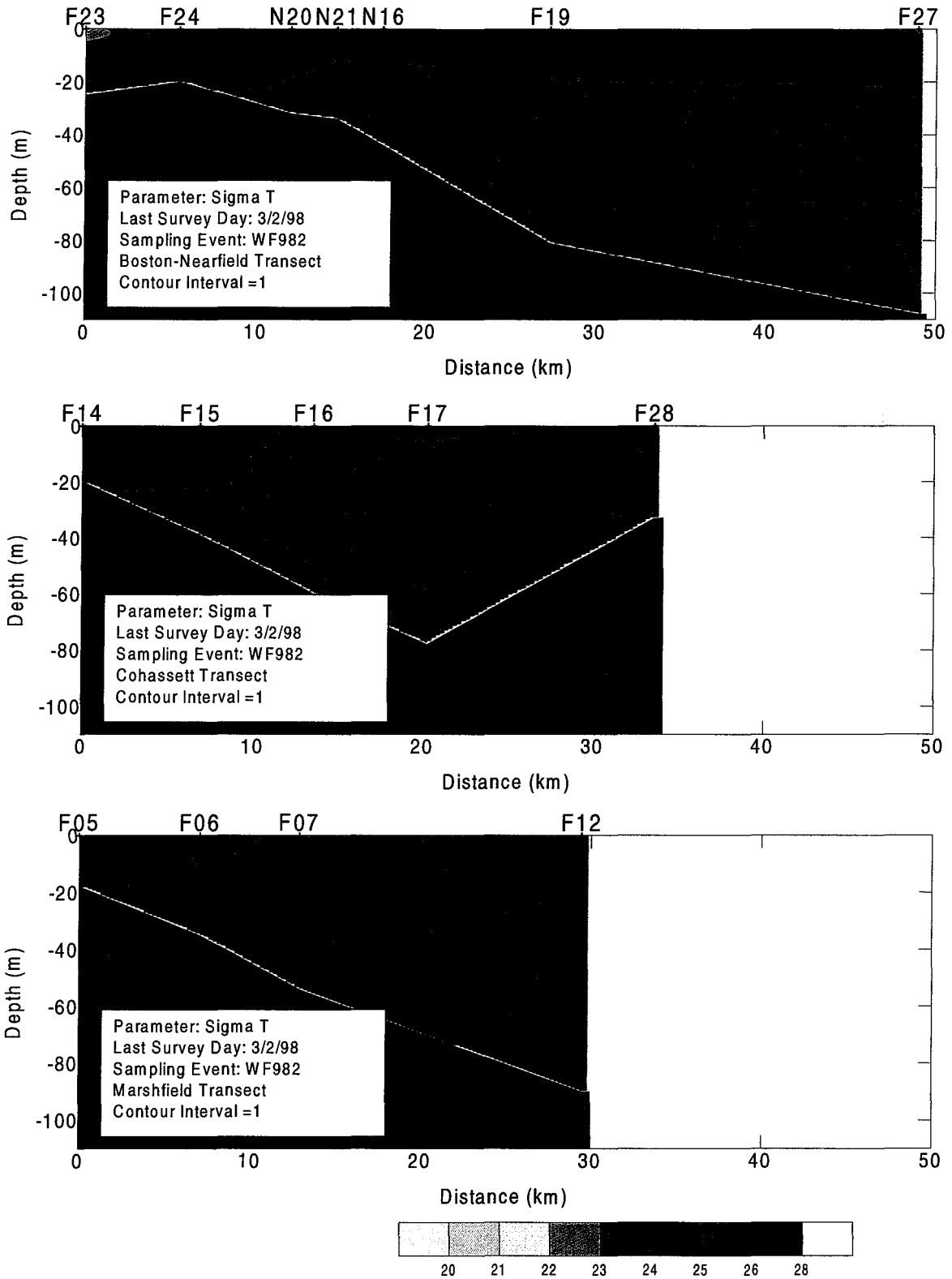


Figure C-3. Density Transect Plots (West - East) for Farfield Survey WF982 (Feb 98)

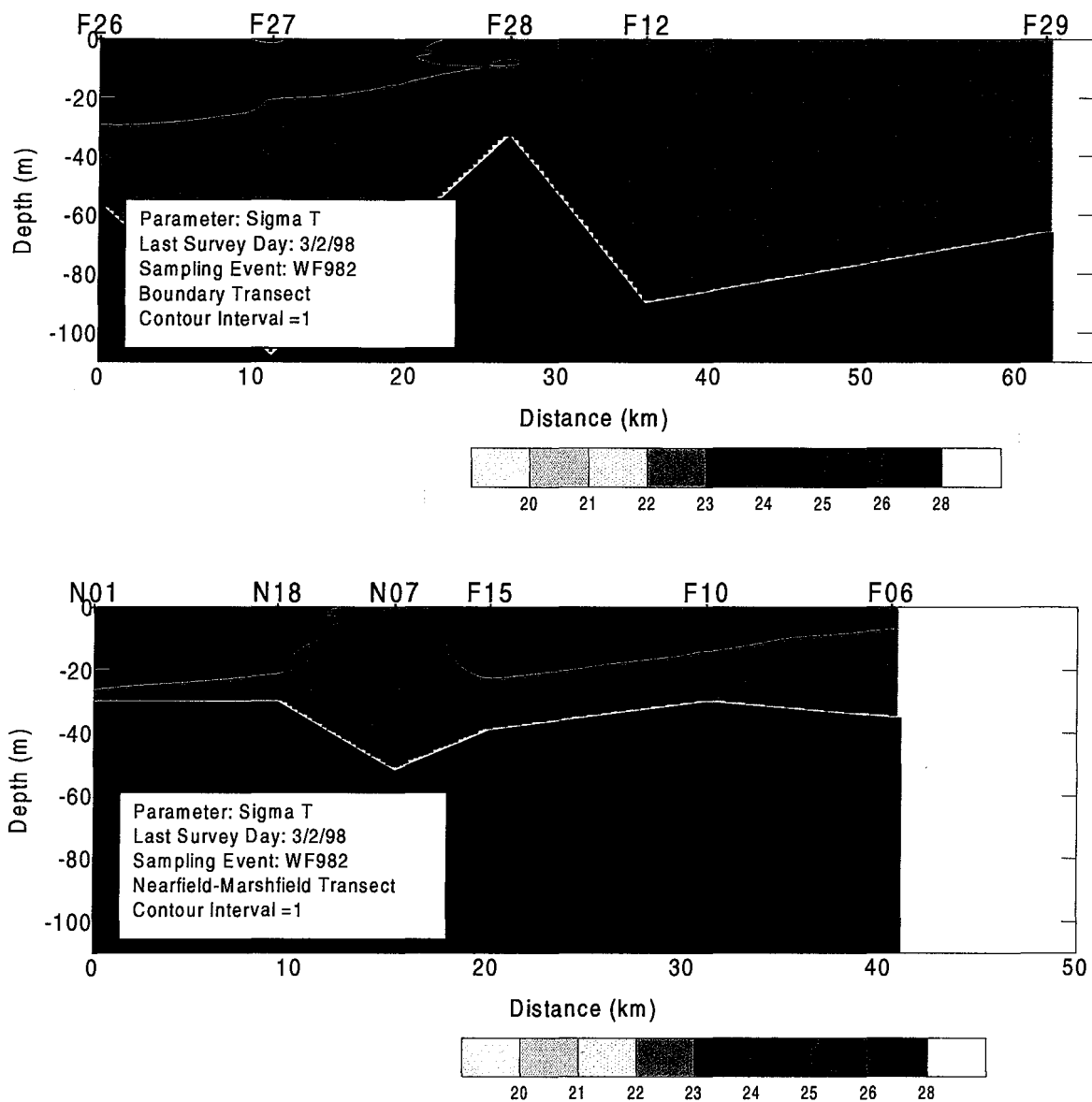


Figure C-4. Density Transect Plots (North - South) for Farfield Survey WF982 (Feb 98)

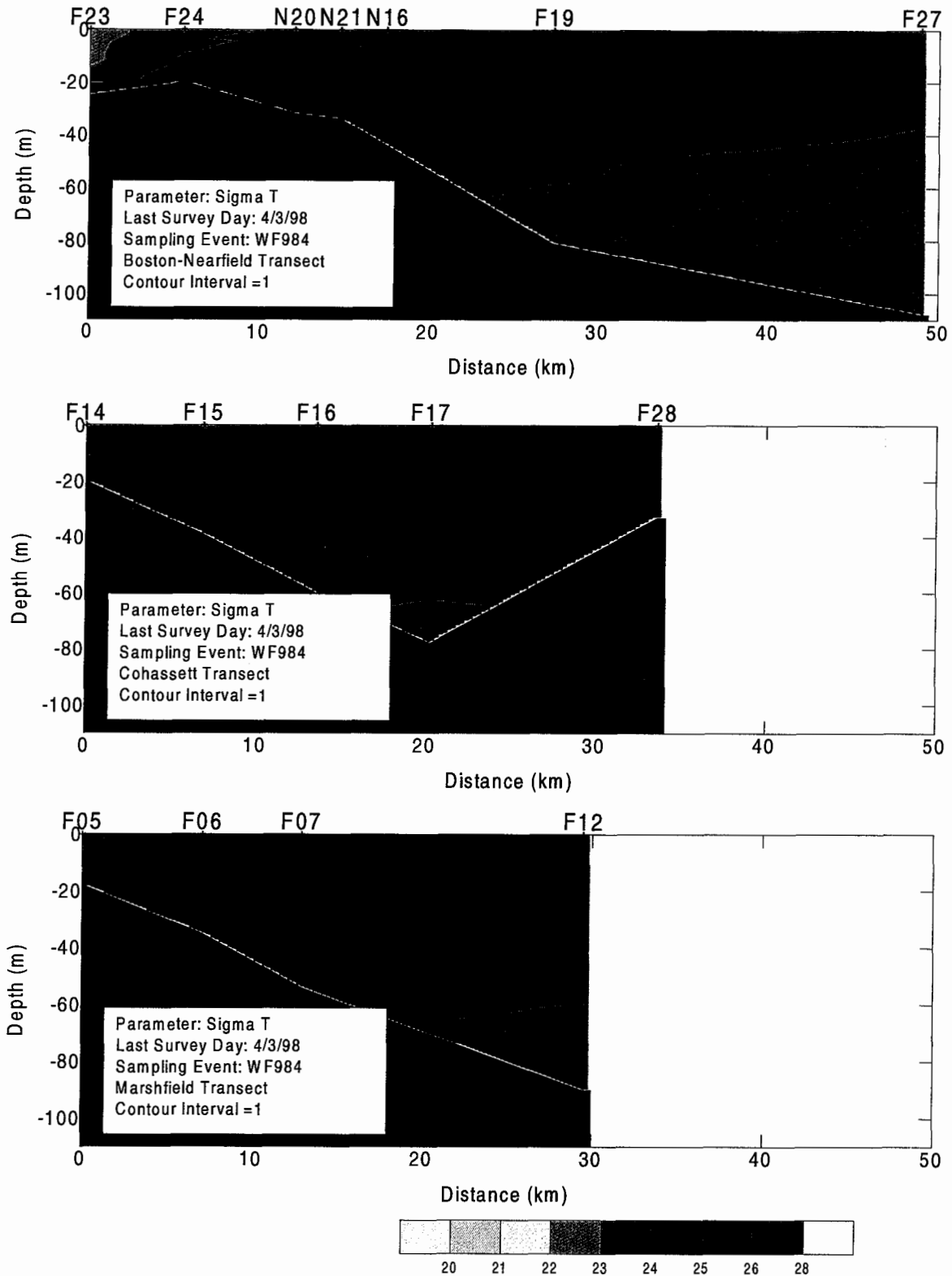


Figure C-5. Density Transect Plots (West - East) for Farfield Survey WF984 (Apr 98)

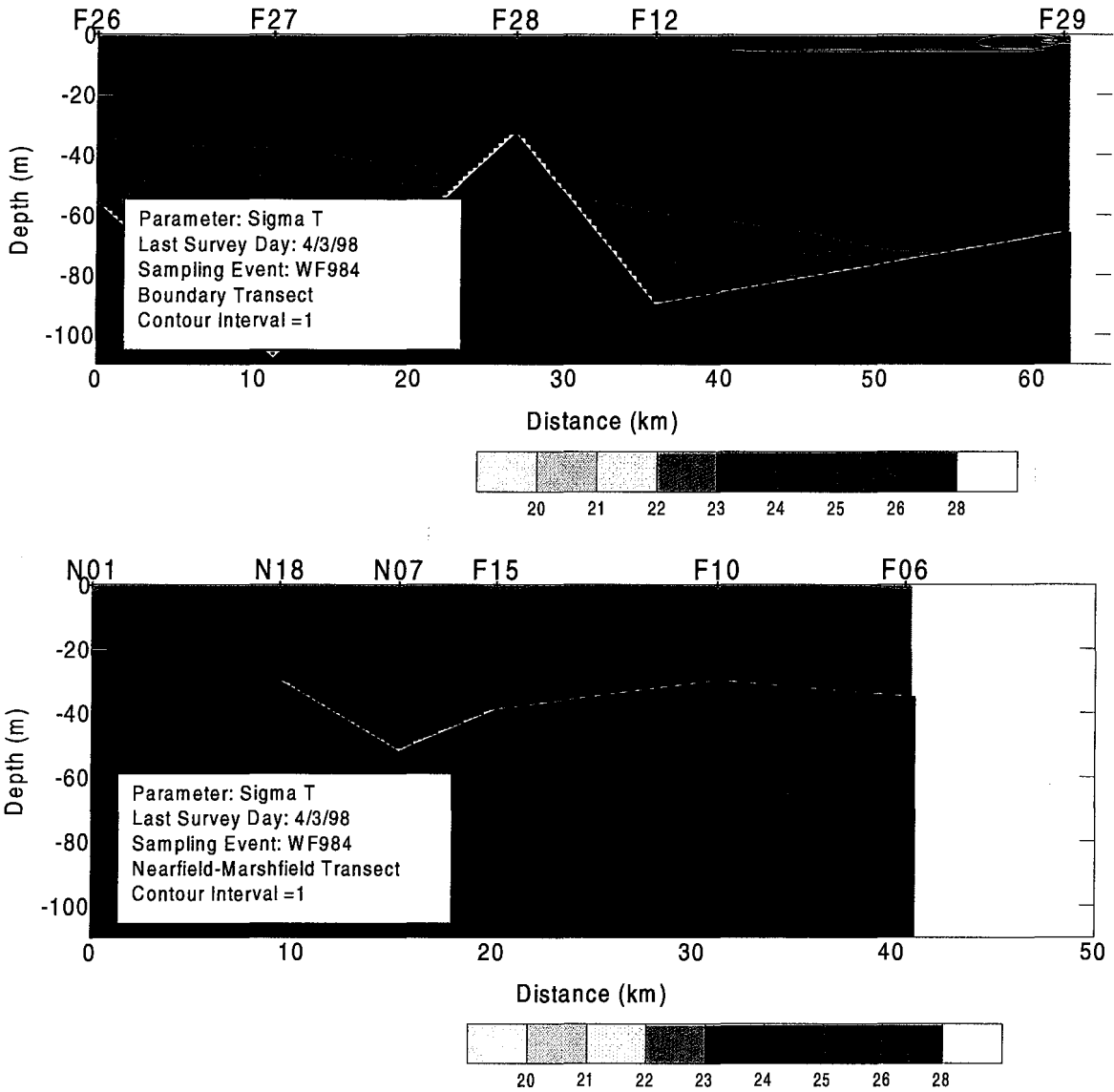


Figure C-6. Density Transect Plots (North - South) for Farfield Survey WF984 (Apr 98)

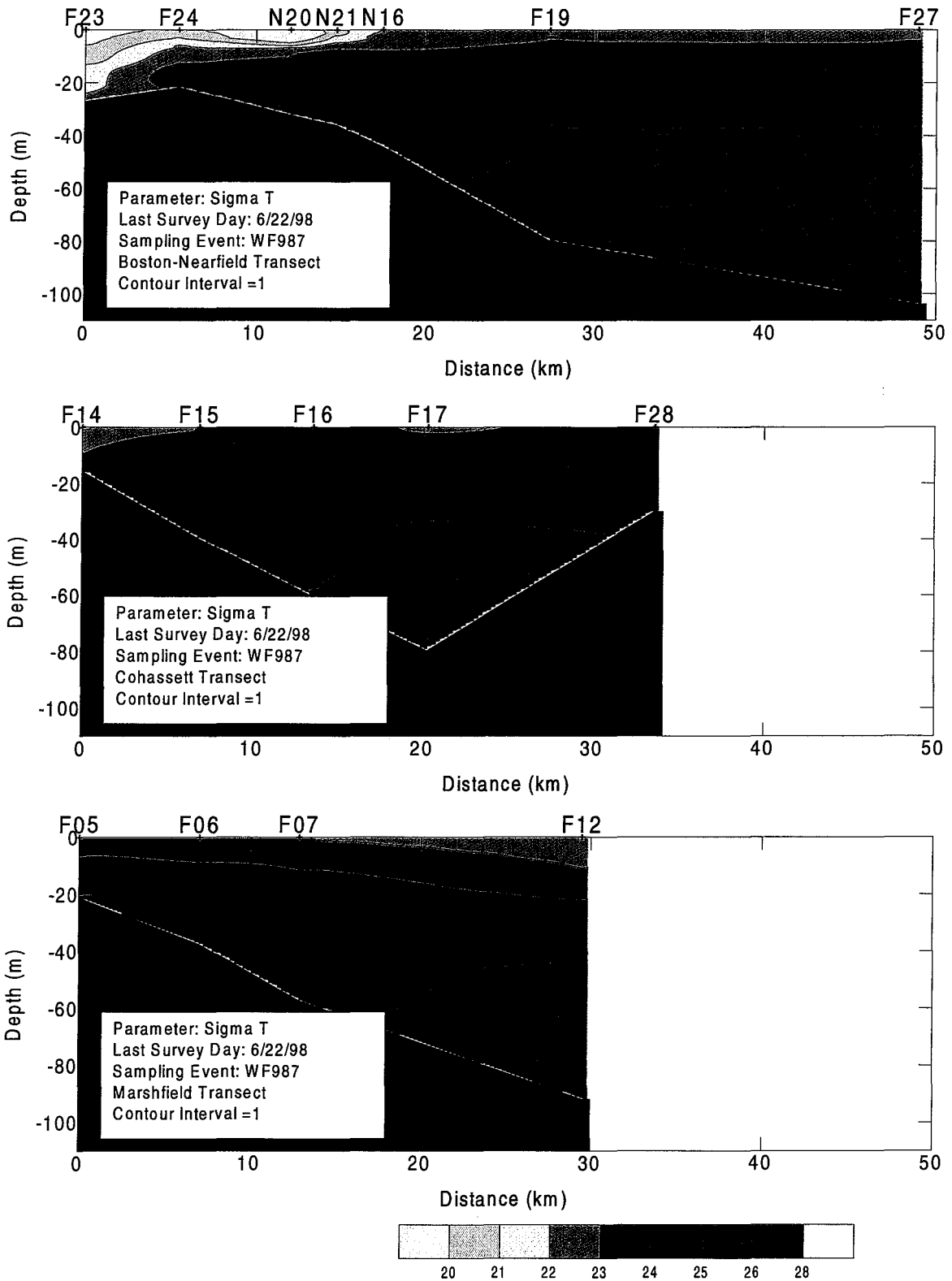


Figure C-7. Density Transect Plots (West - East) for Earfield Survey WF987 (Jun 98)

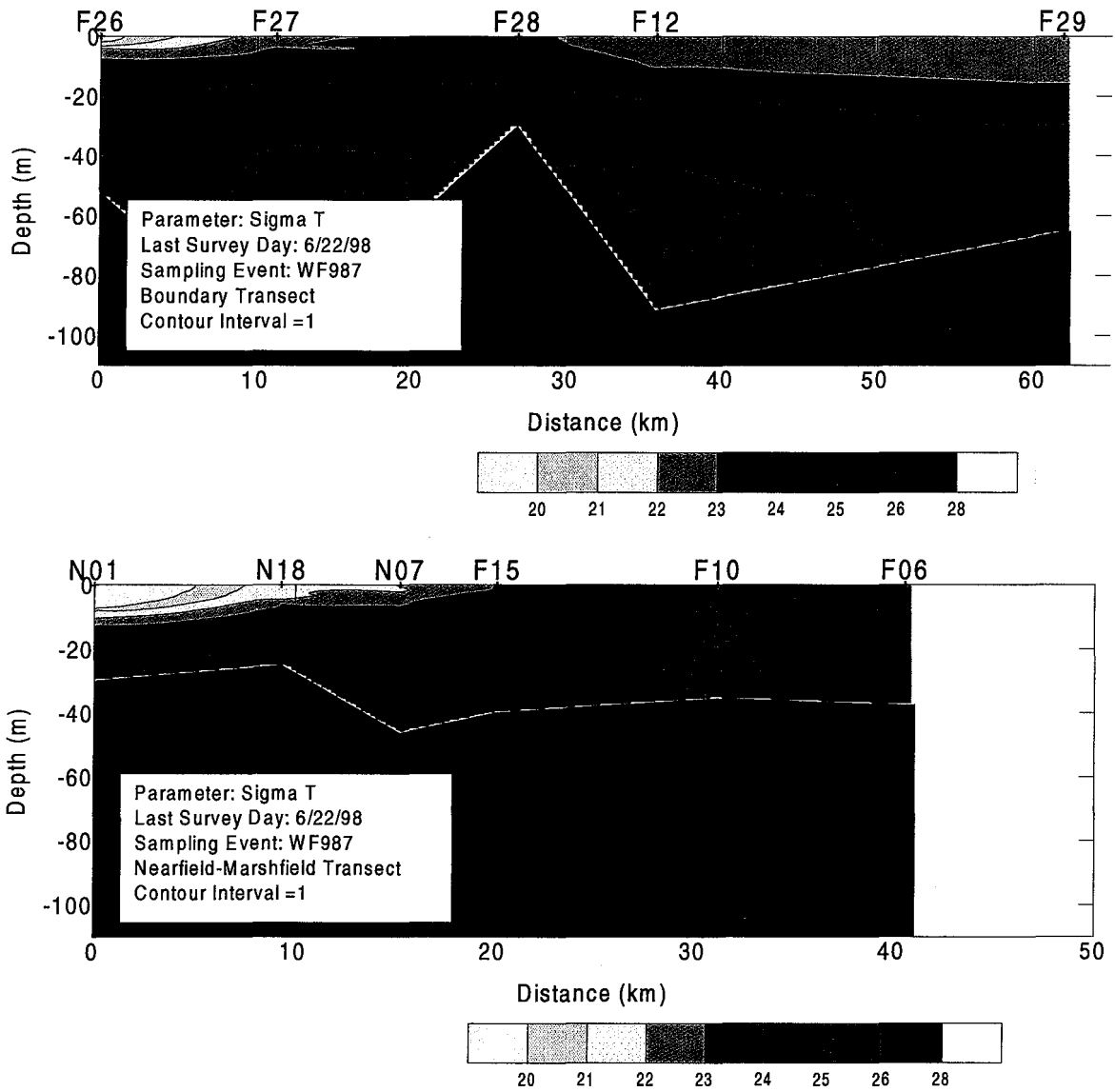


Figure C-8. Density Transect Plots (North - South) for Farfield Survey WF987 (Jun 98)

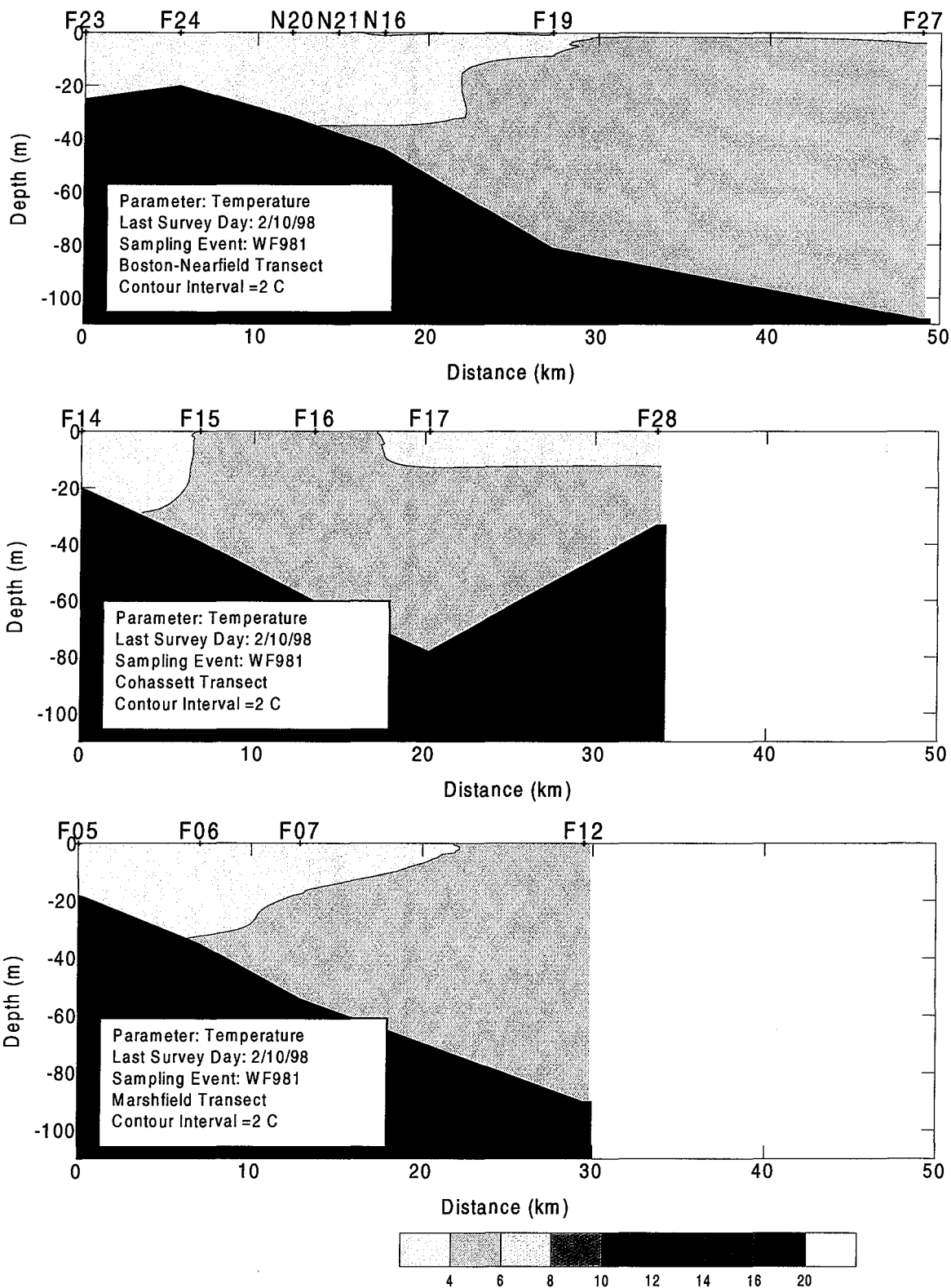


Figure C-9. Temperature Transect Plots (West - East) for Farfield Survey WF981 (Feb 98)

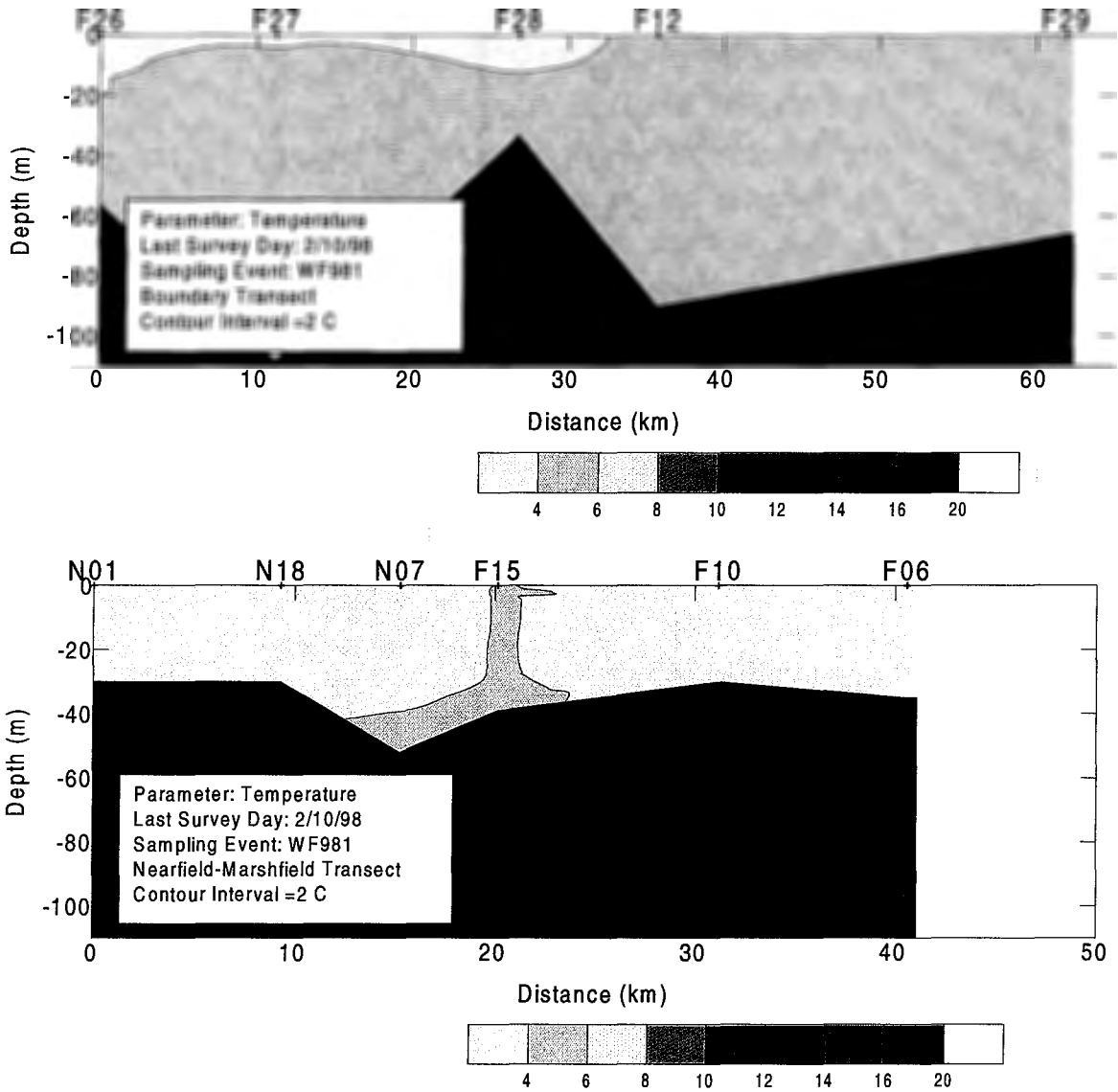


Figure C-10. Temperature Transect Plots (North - South) for Farfield Survey WF981 (Feb 98)

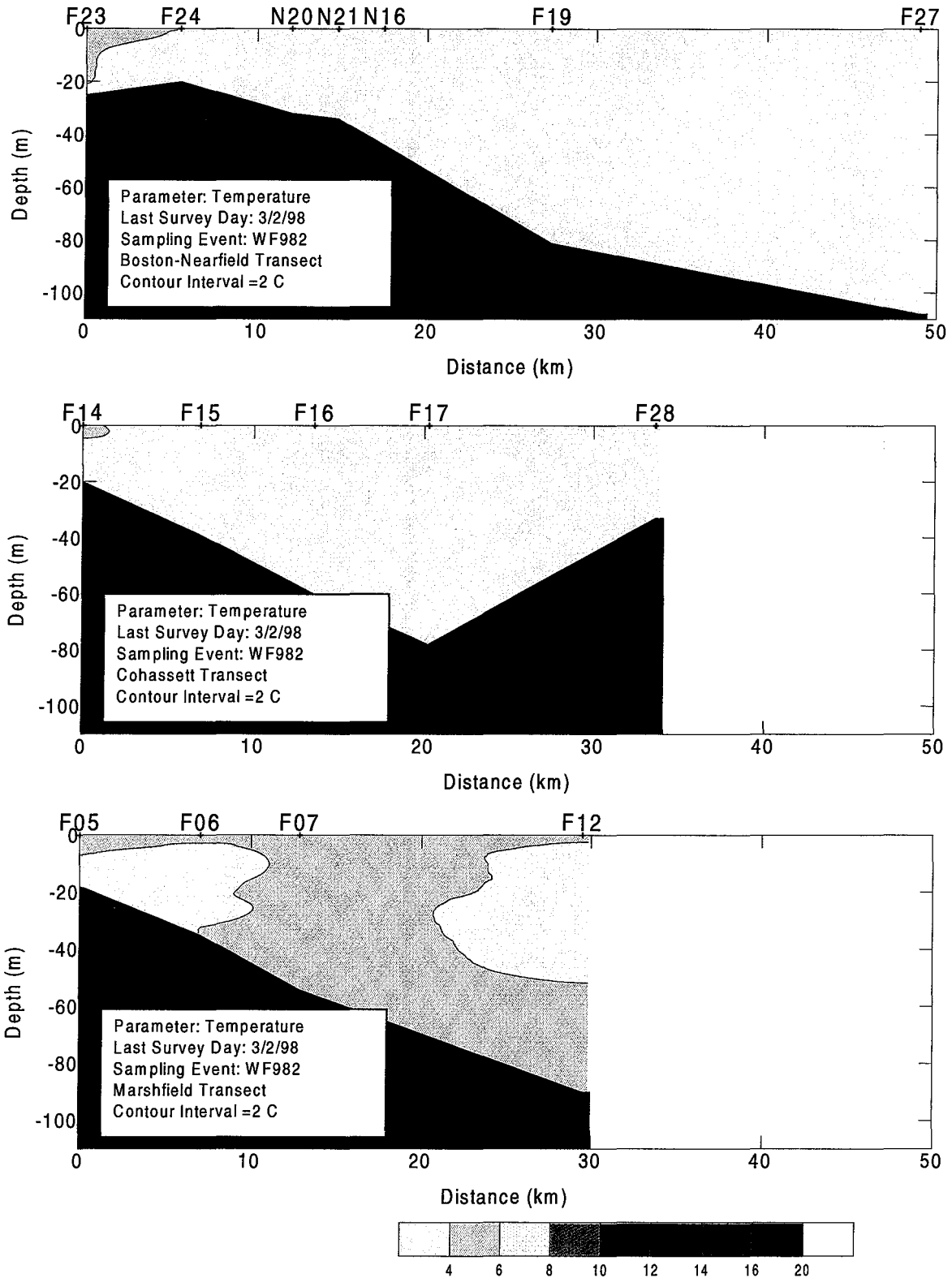


Figure C-11. Temperature Transect Plots (West – East) for Farfield Survey WF982 (Feb 98)

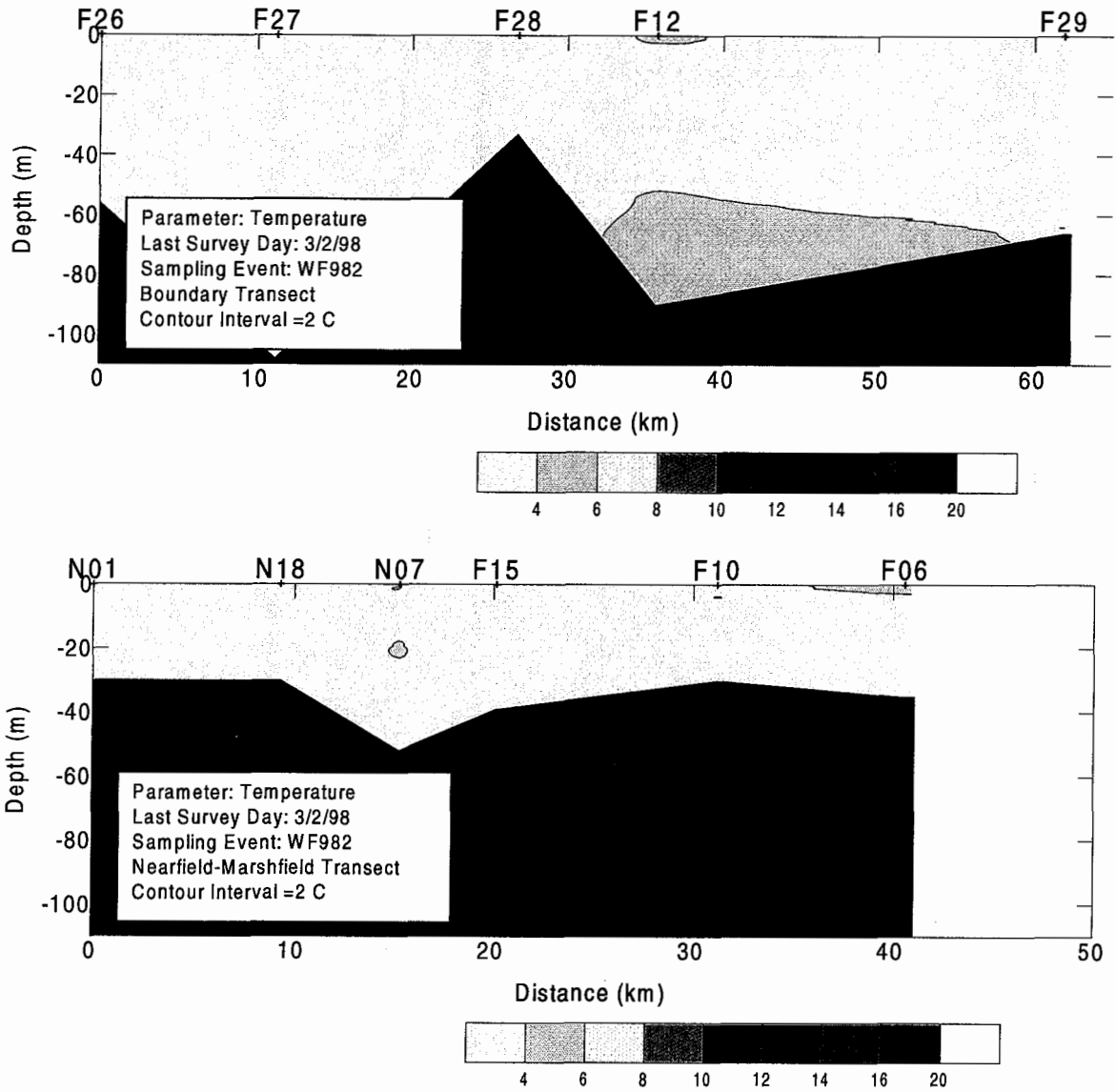


Figure C-12. Temperature Transect Plots (North - South) for Farfield Survey WF982 (Feb 98)

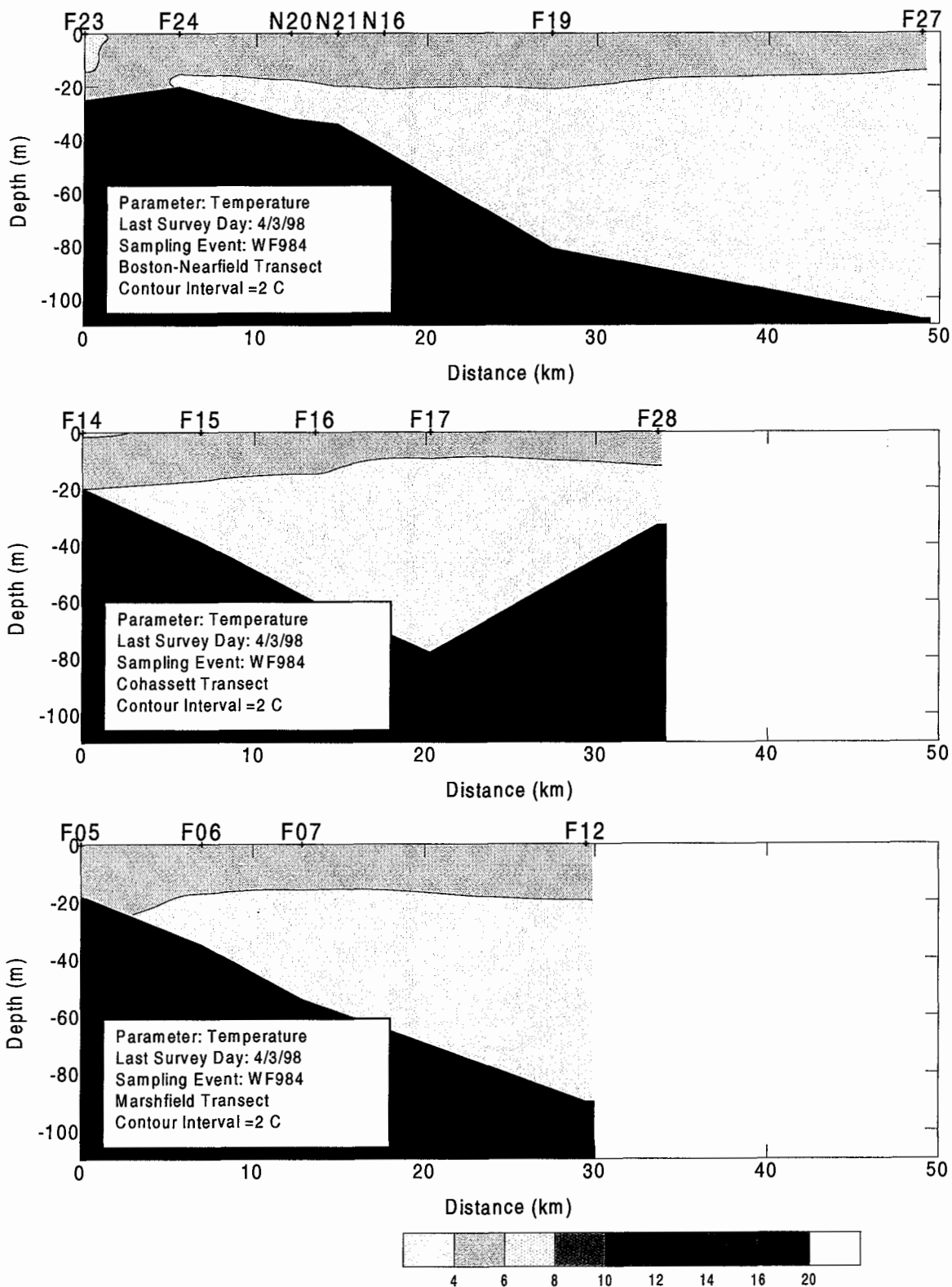


Figure C-13. Temperature Transect Plots (West – East) for Farfield Survey WF984 (Apr 98)

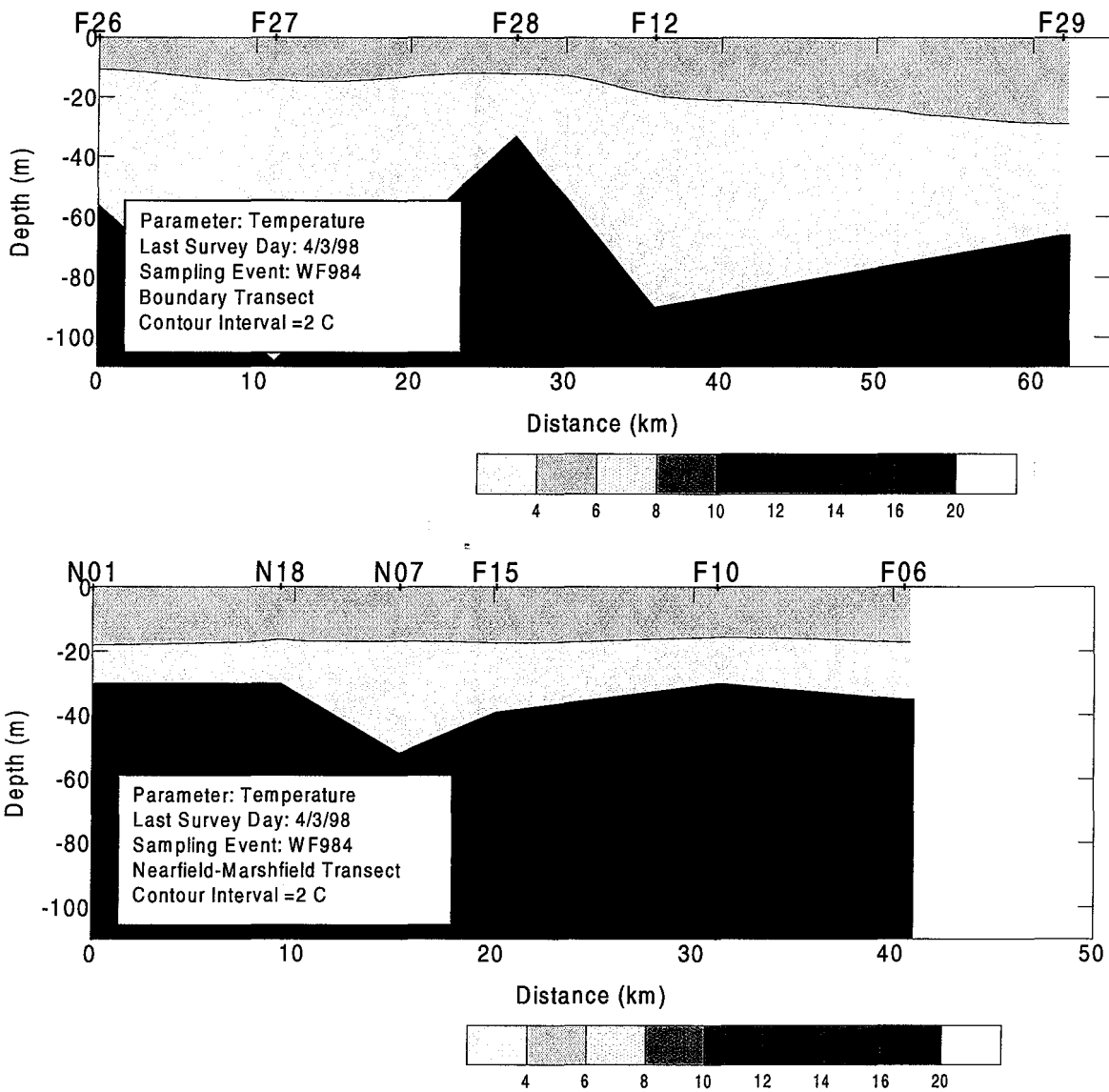
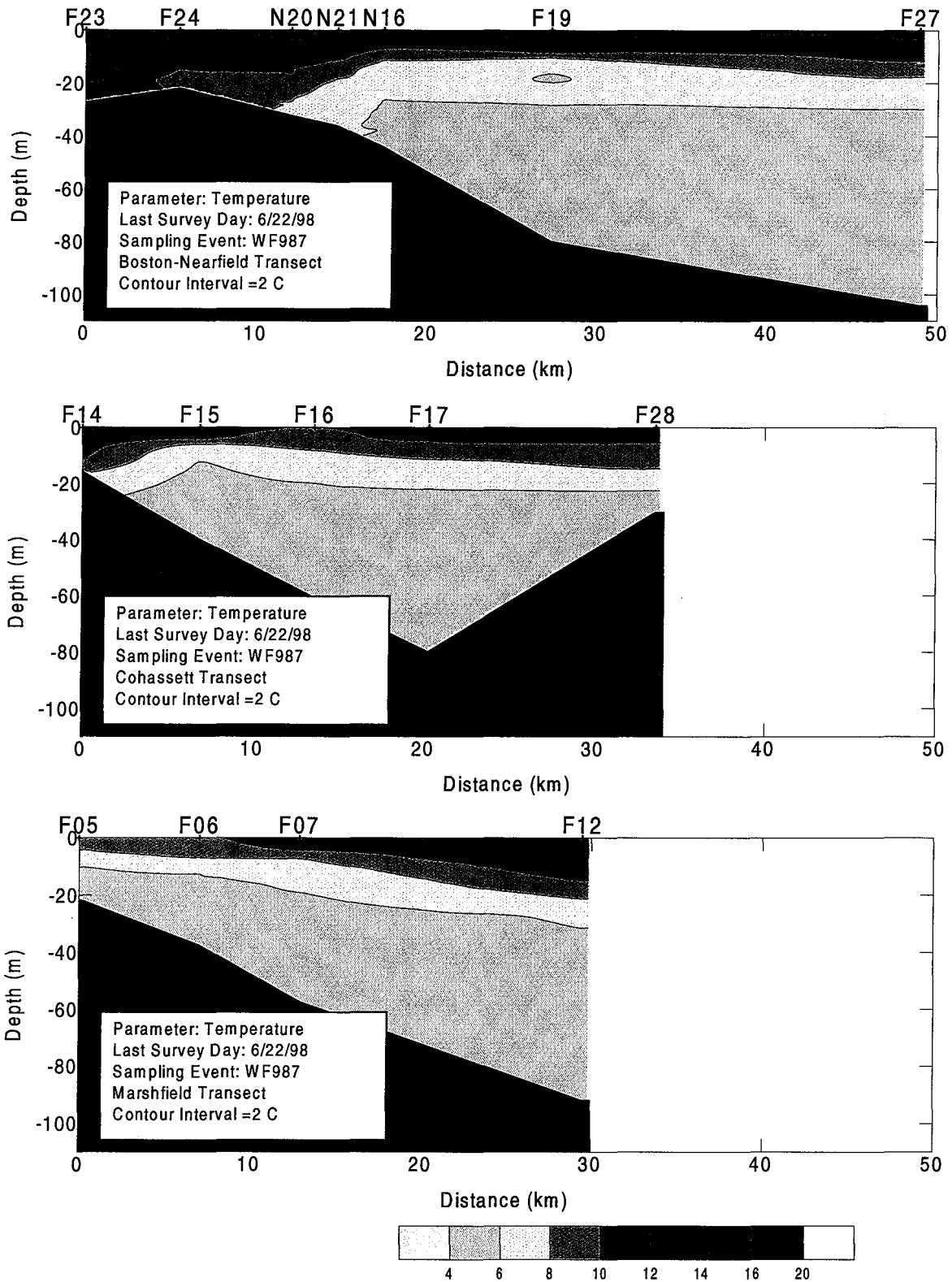


Figure C-14. Temperature Transect Plots (North - South) for Farfield Survey WF984 (Apr 98)



**Figure C-15. Temperature Transect Plots (West – East) for
Earfield Survey WF987 (Jun 98)**

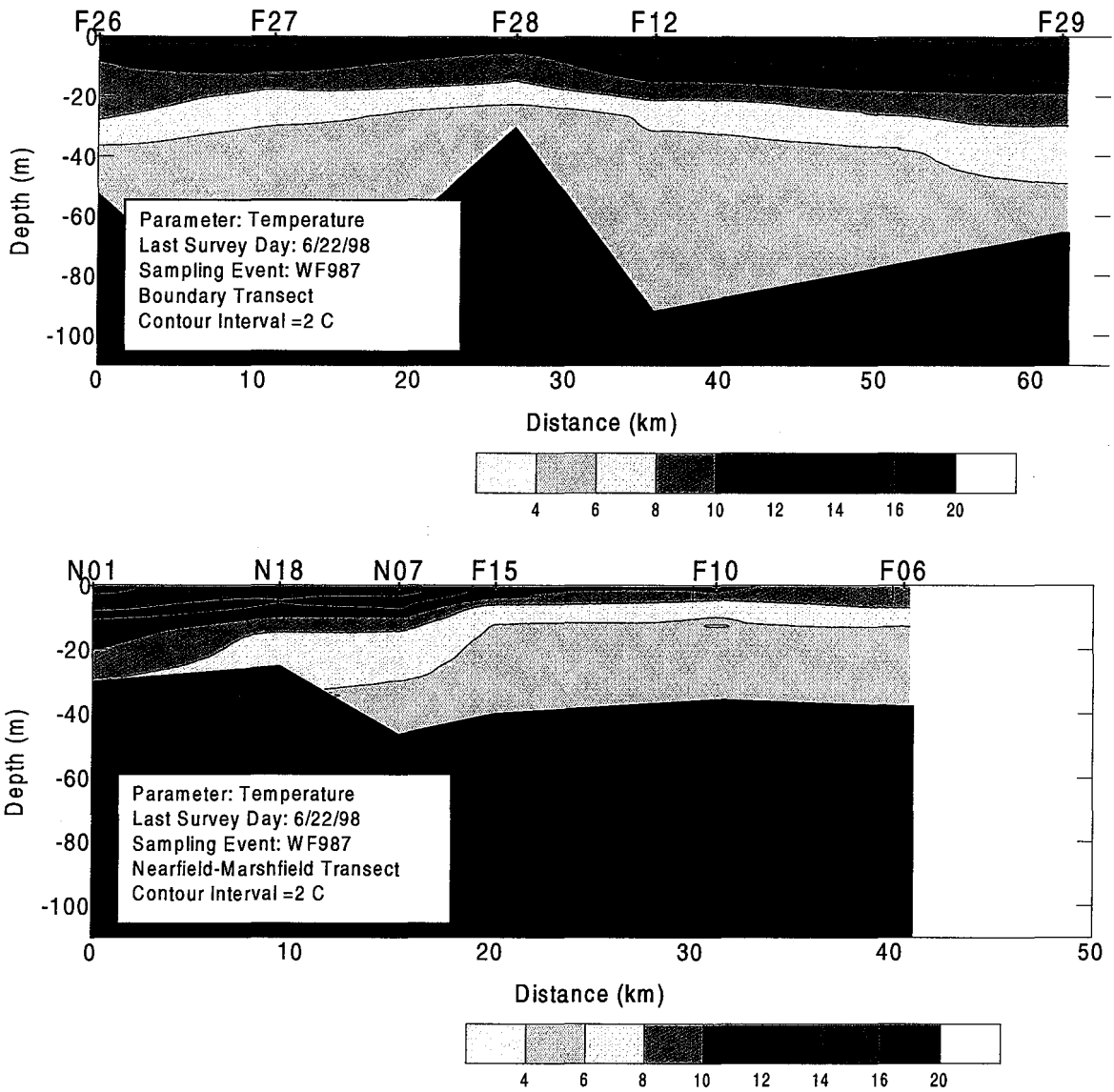


Figure C-16. Temperature Transect Plots (North - South) for Farfield Survey WF987 (Jun 98)

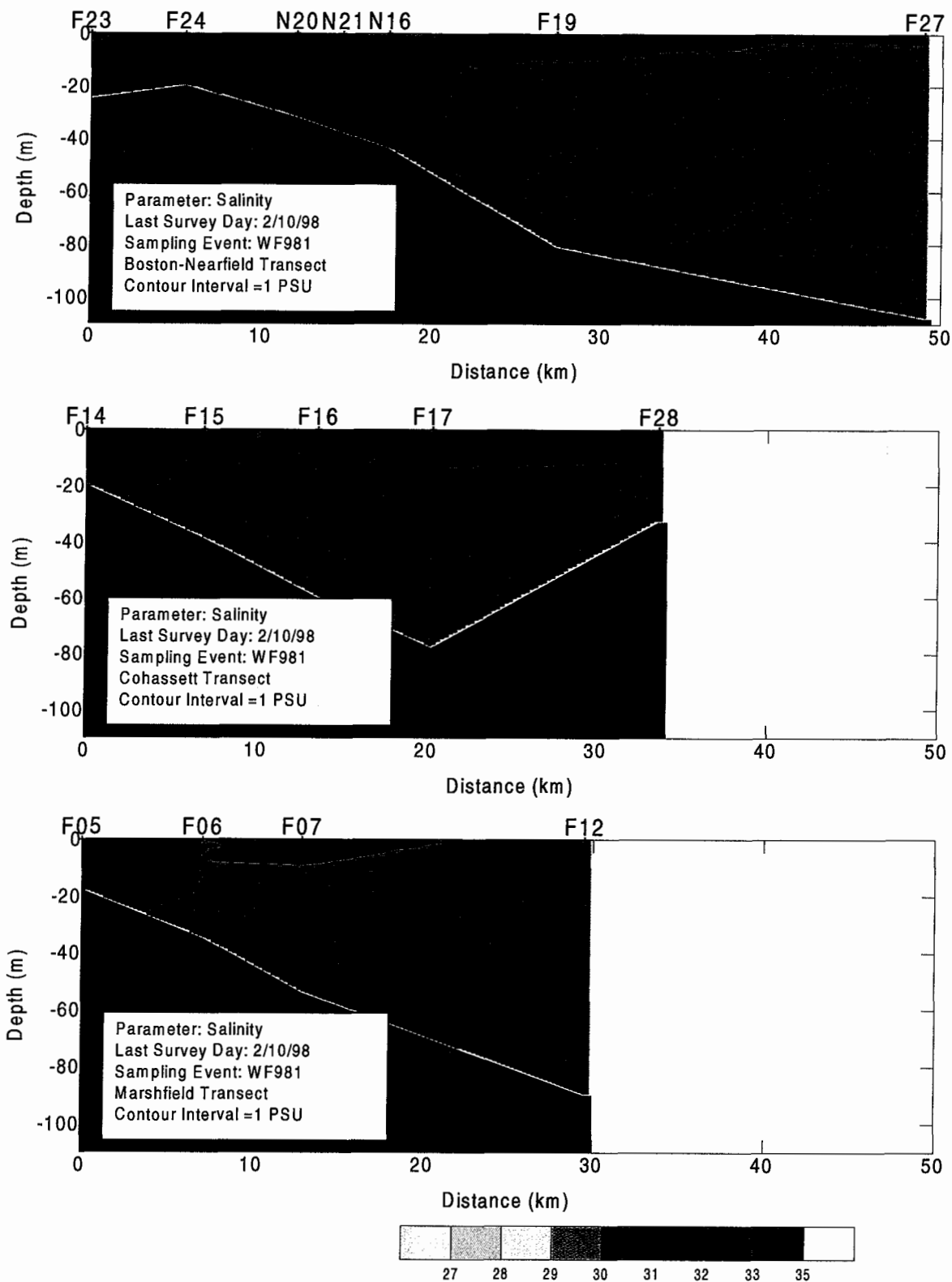


Figure C-17. Salinity Transect Plots (West - East) for Farfield Survey WF981 (Feb 98)

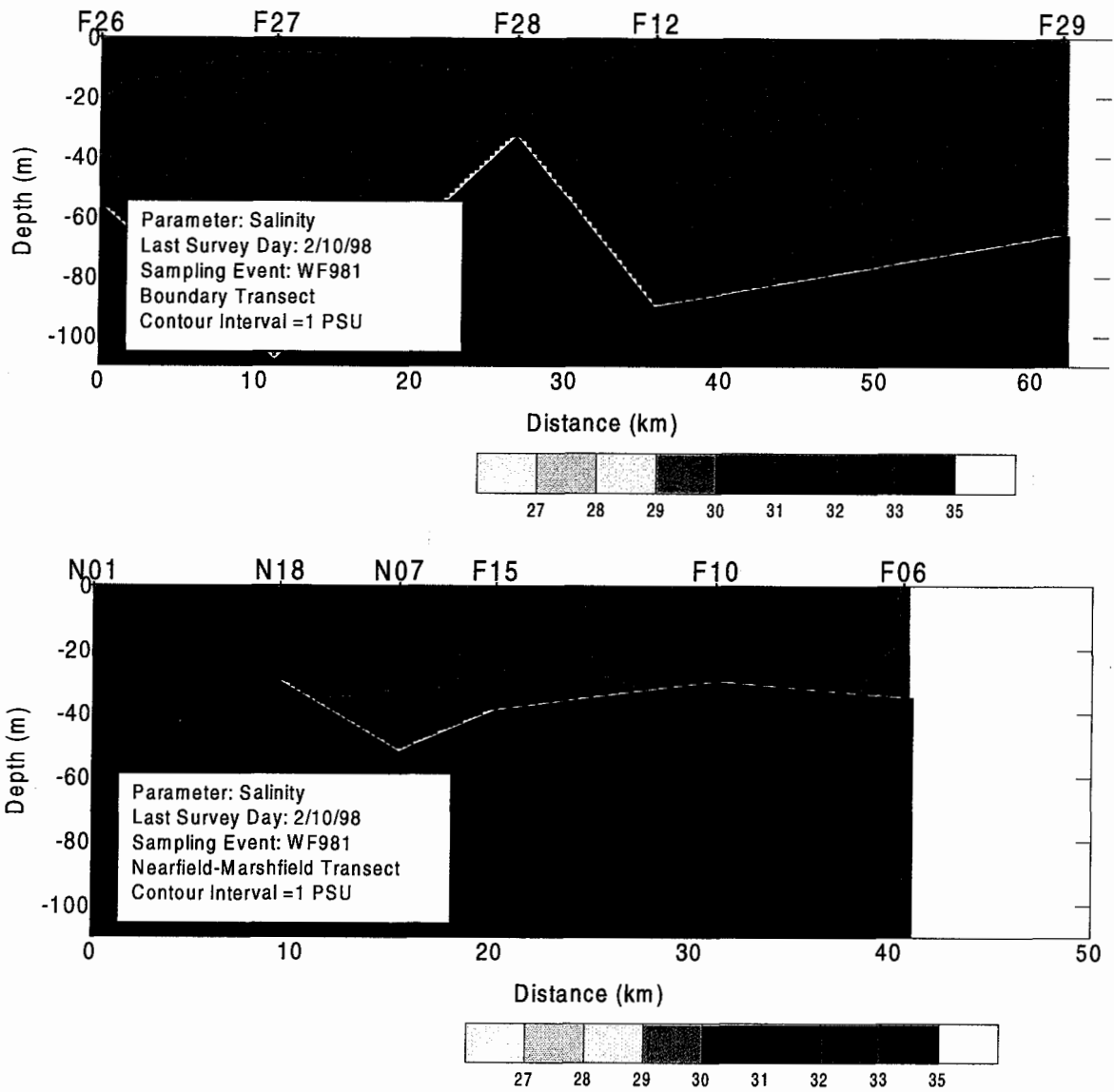


Figure C-18. Salinity Transect Plots (North - South) for Farfield Survey WF981 (Feb 98)

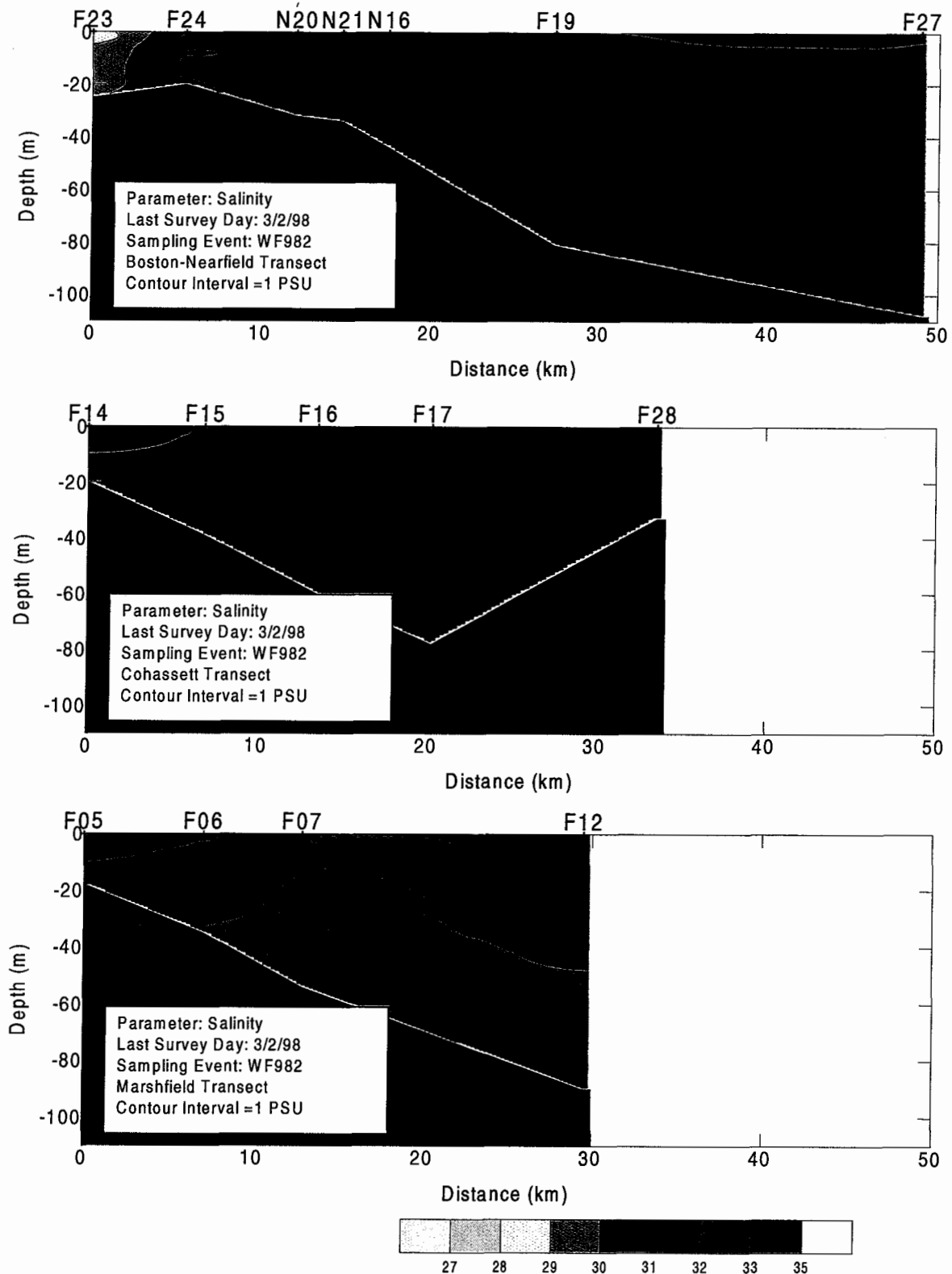


Figure C-19. Salinity Transect Plots (West - East) for Farfield Survey WF982 (Feb 98)

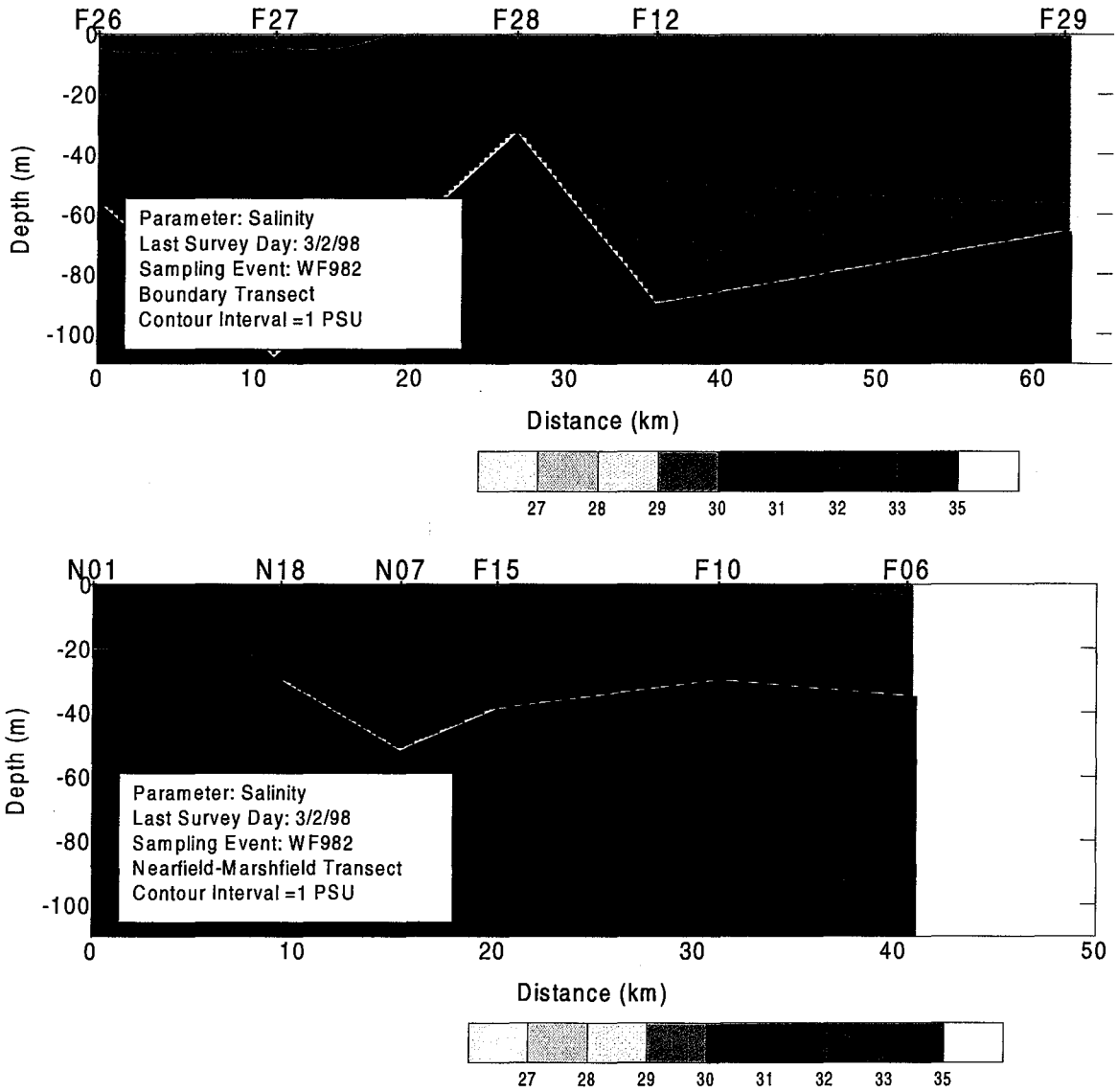


Figure C-20. Salinity Transect Plots (North - South) for Farfield Survey WF982 (Feb 98)

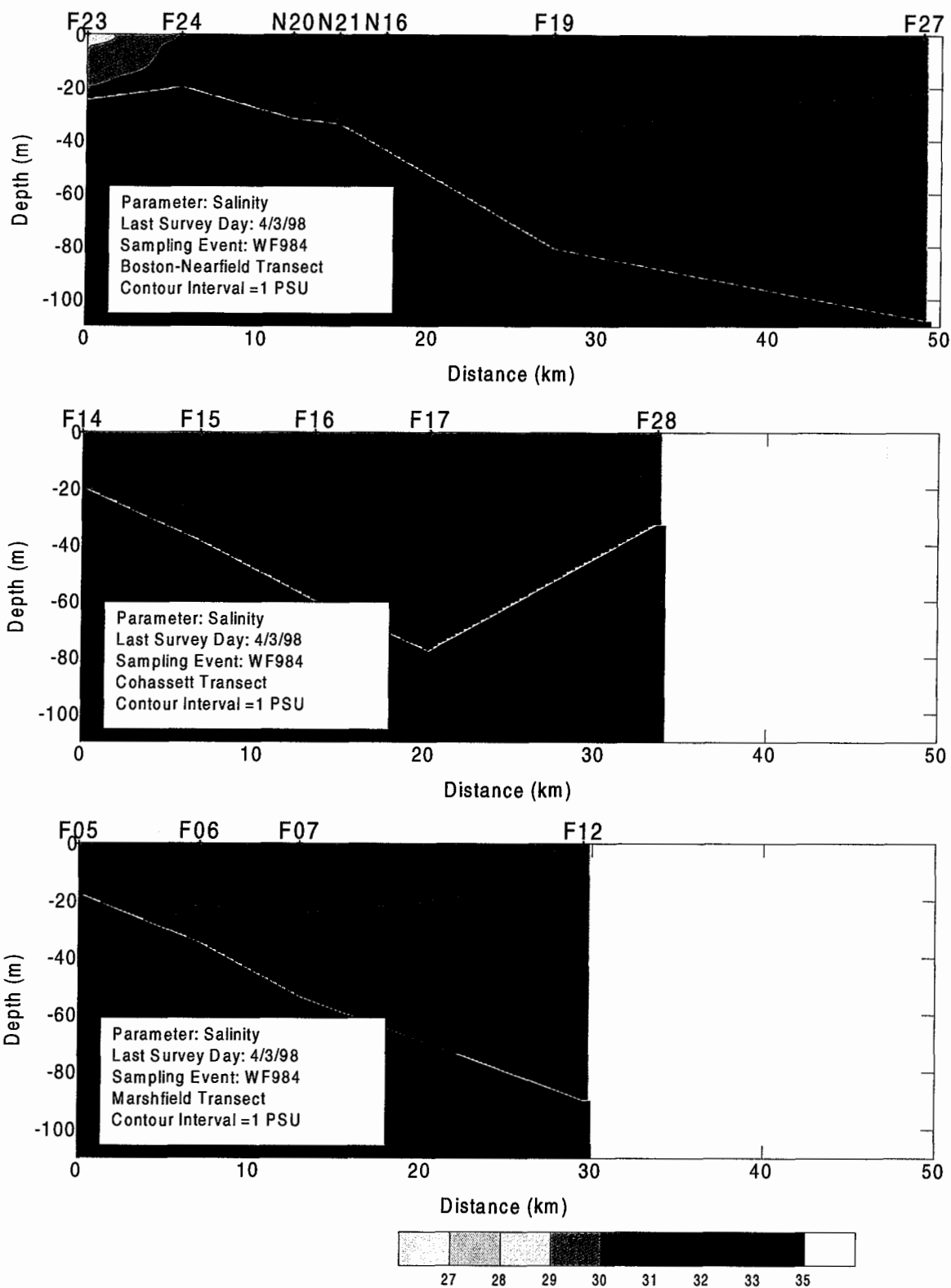


Figure C-21. Salinity Transect Plots (West - East) for Farfield Survey WF984 (Apr 98)

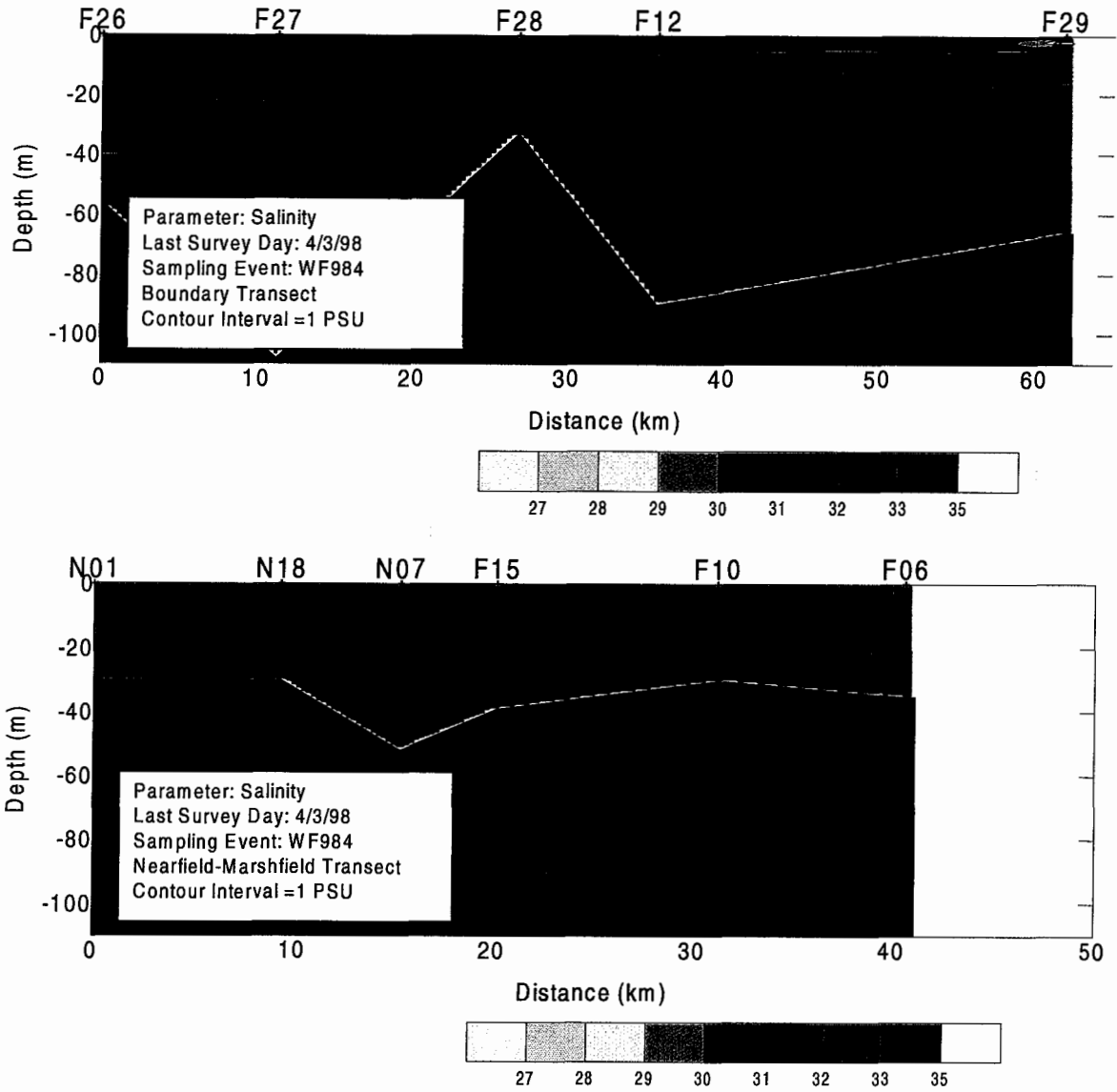


Figure C-22. Salinity Transect Plots (North - South) for Farfield Survey WF984 (Apr 98)

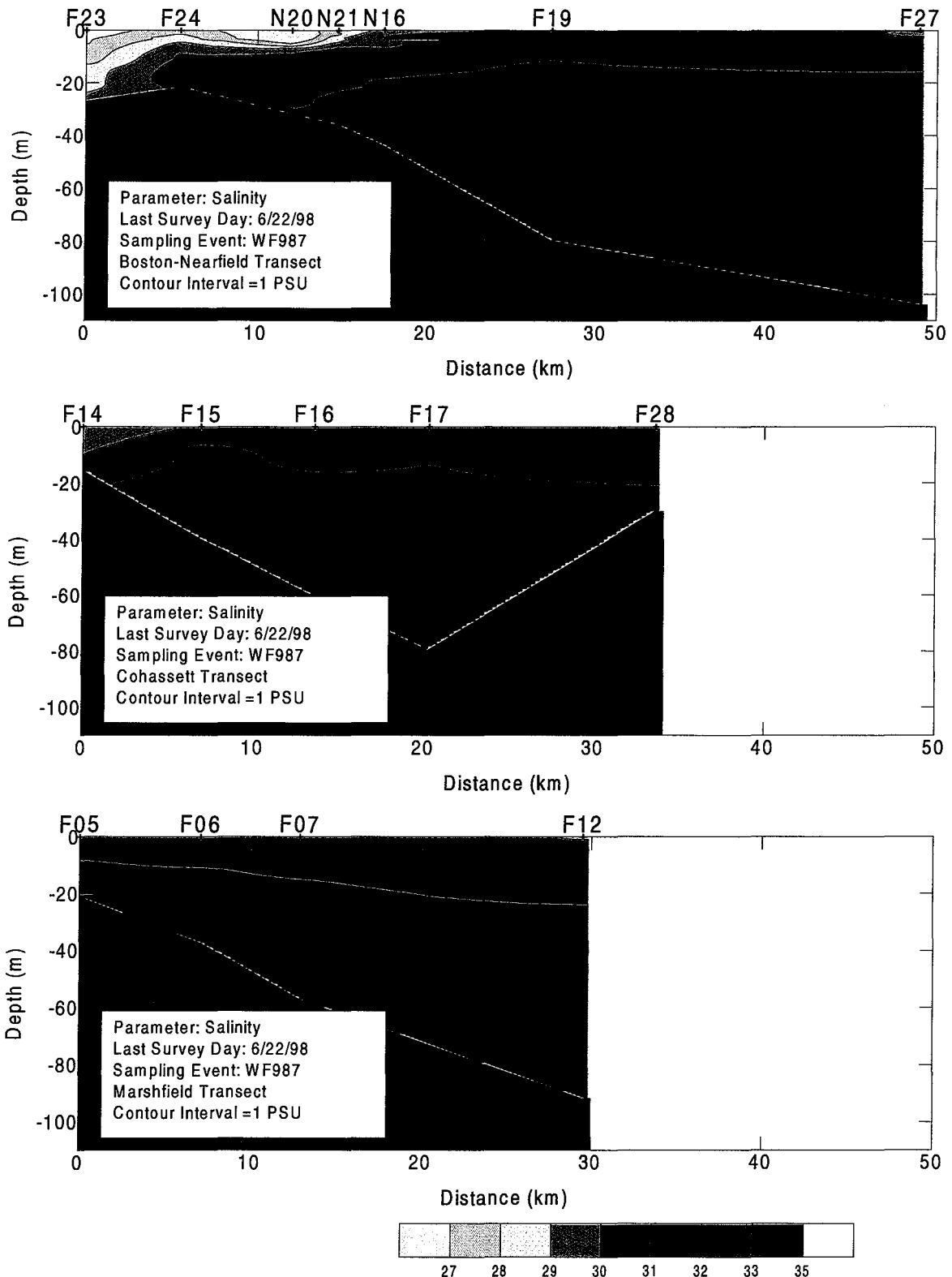


Figure C-23. Salinity Transect Plots (West - East) for Earfield Survey WF987 (Jun 98)

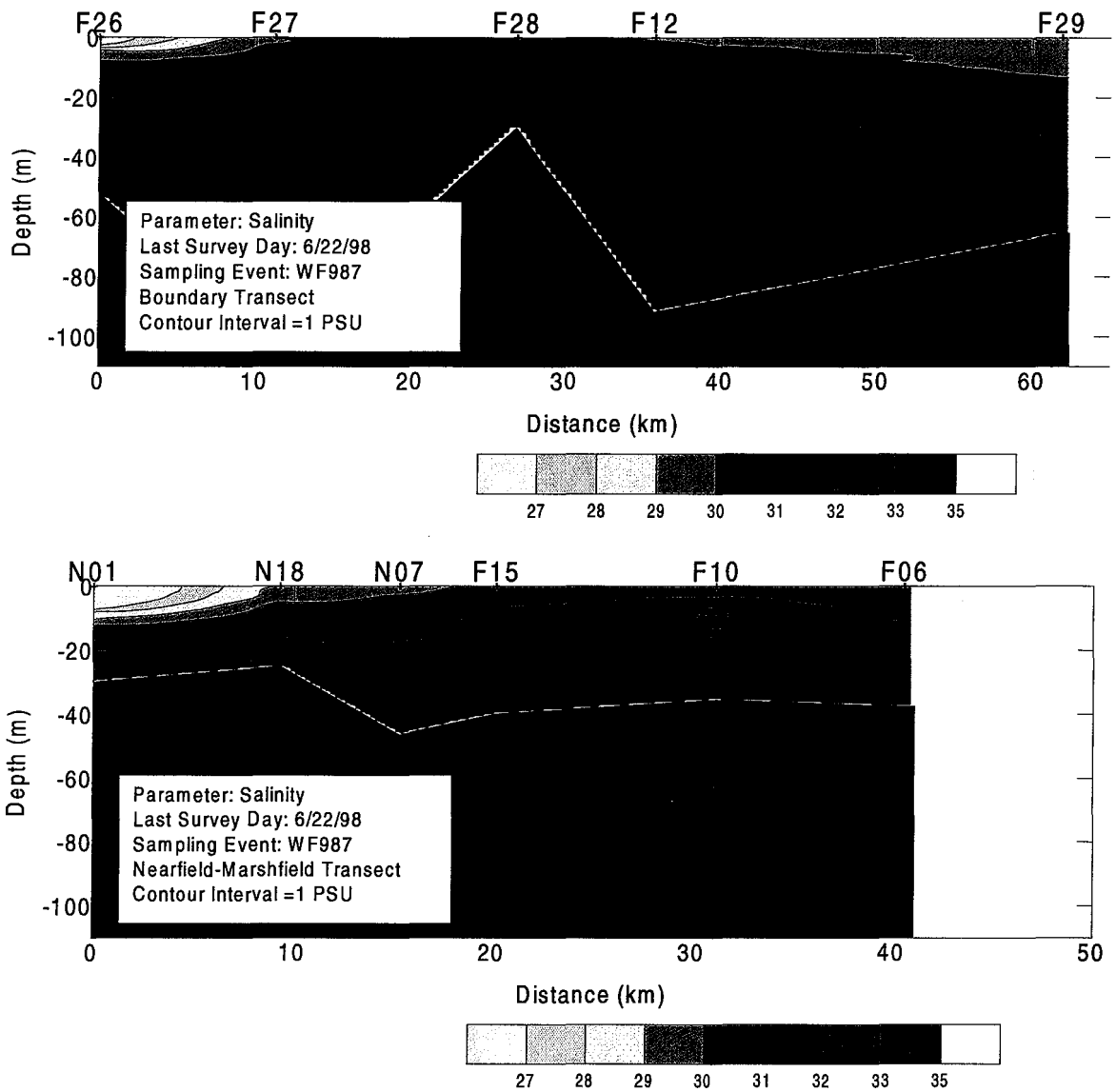


Figure C-24. Salinity Transect Plots (North - South) for Farfield Survey WF987 (Jun 98)

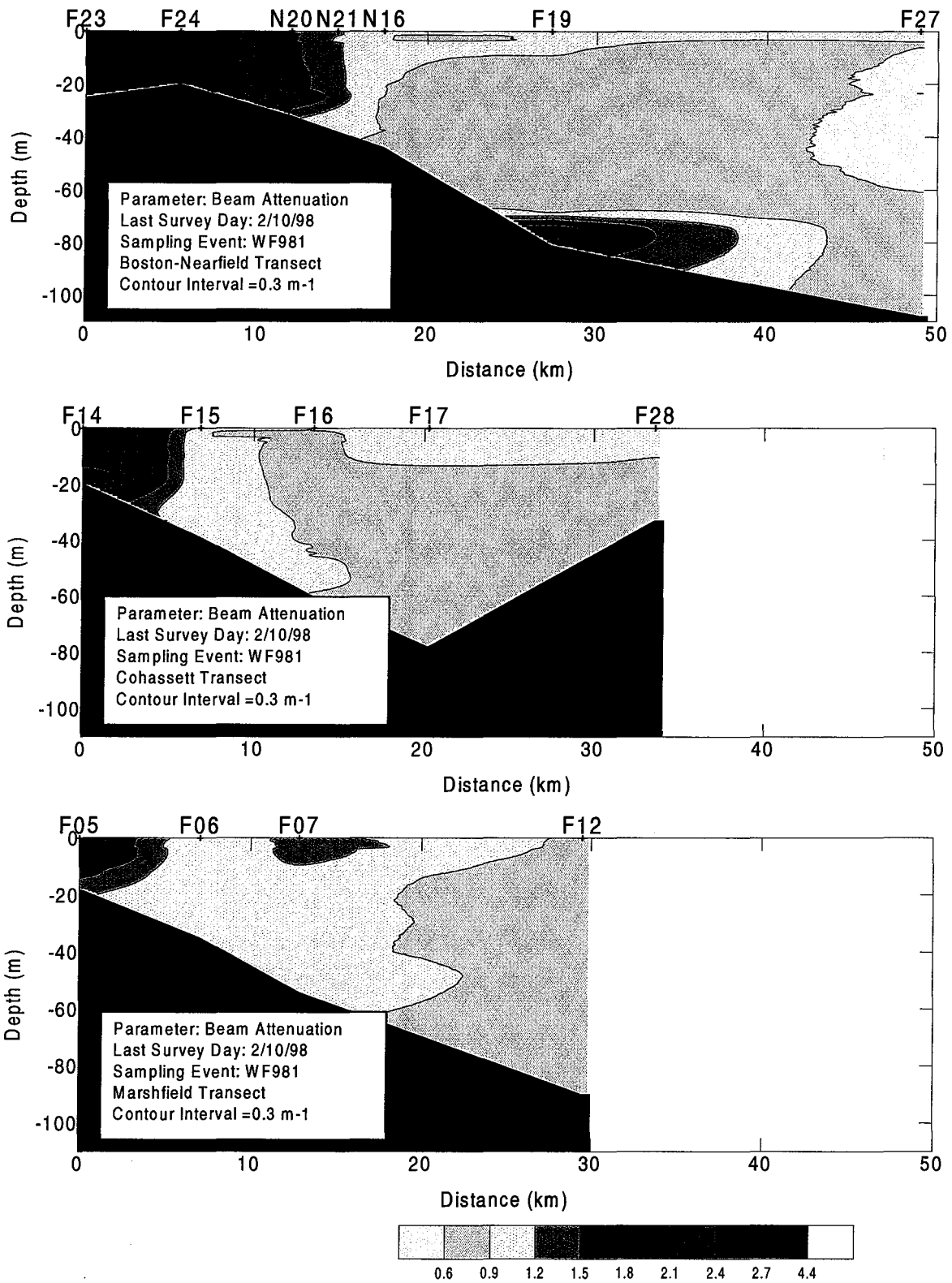


Figure C-25. Beam Attenuation Transect Plots (West - East) for Farfield Survey WF981 (Feb 98)

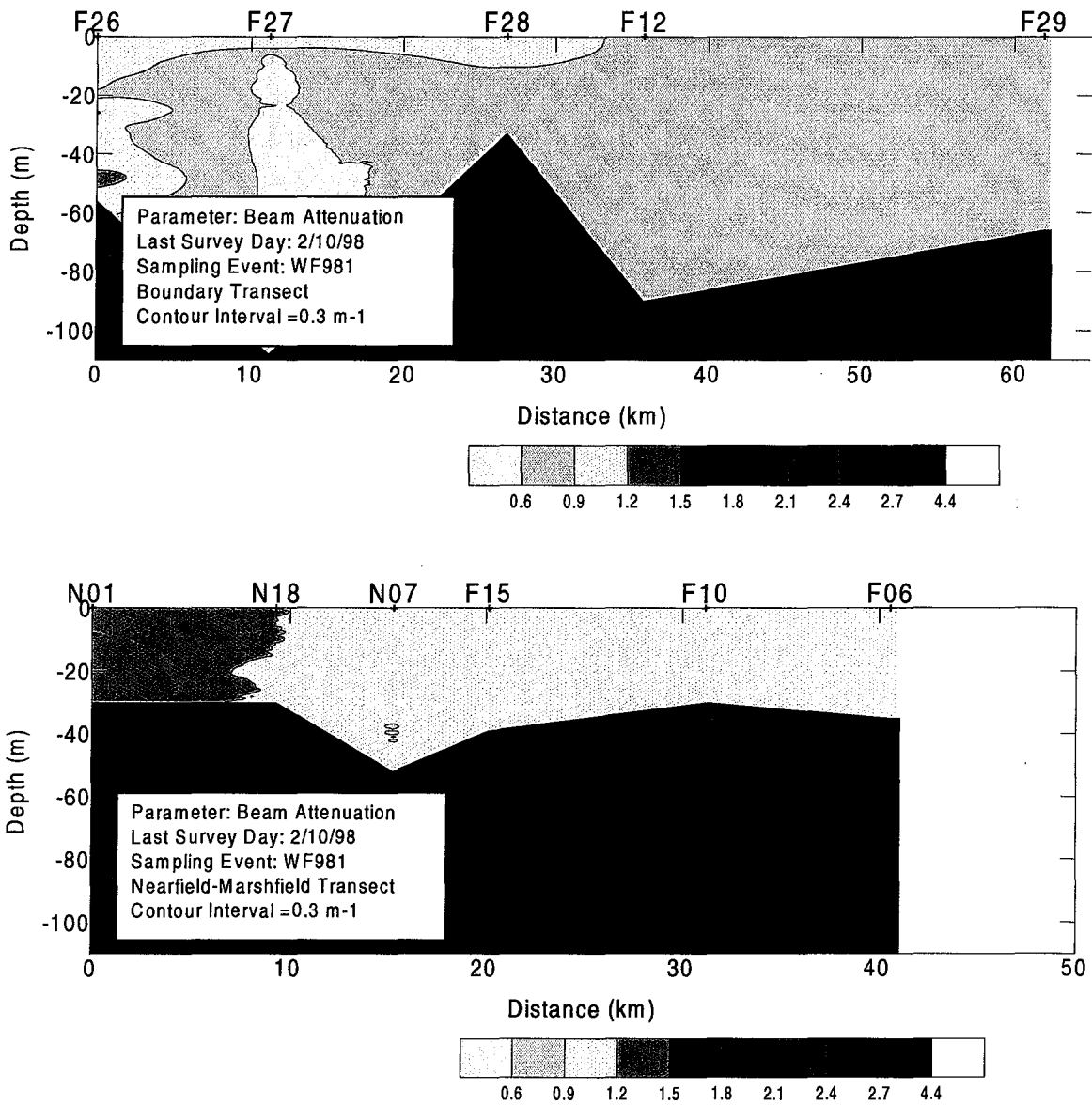


Figure C-26. Beam Attenuation Transect Plots (North - South) for Farfield Survey WF981 (Feb 98)

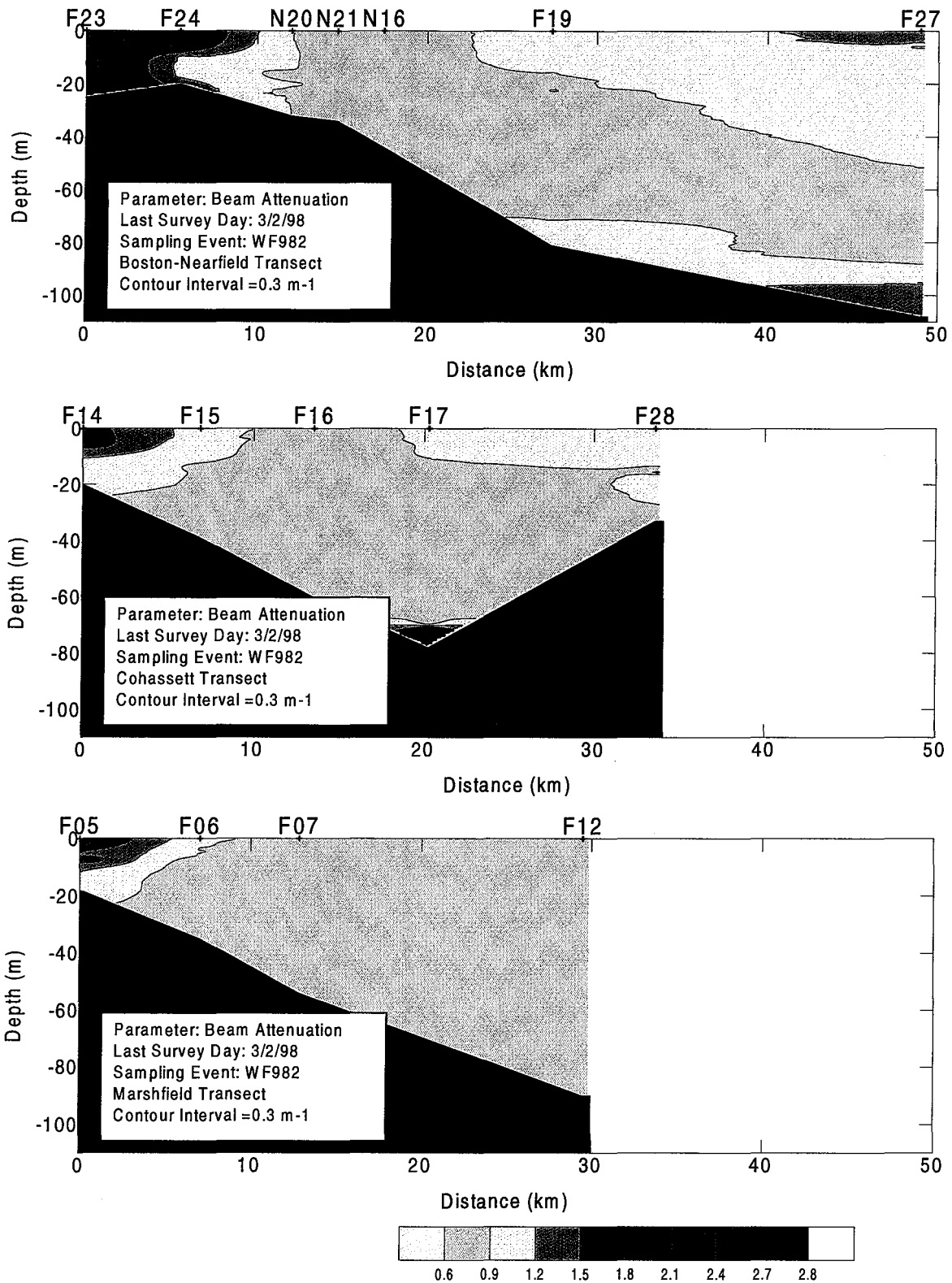


Figure C-27. Beam Attenuation Transect Plots (West - East) for Farfield Survey WF982 (Feb 98)

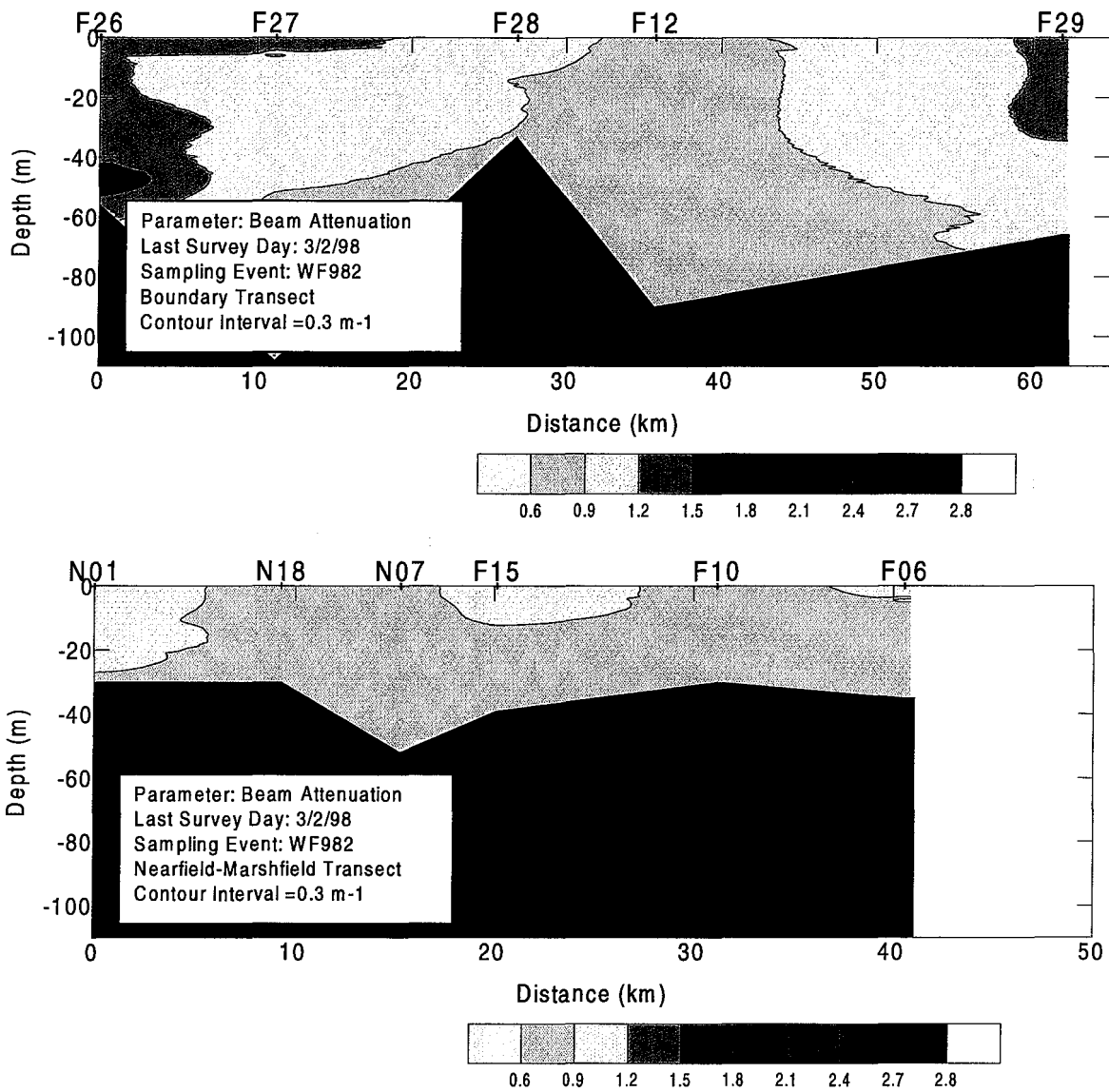


Figure C-28. Beam Attenuation Transect Plots (North - South) for Farfield Survey WF982 (Feb 98)

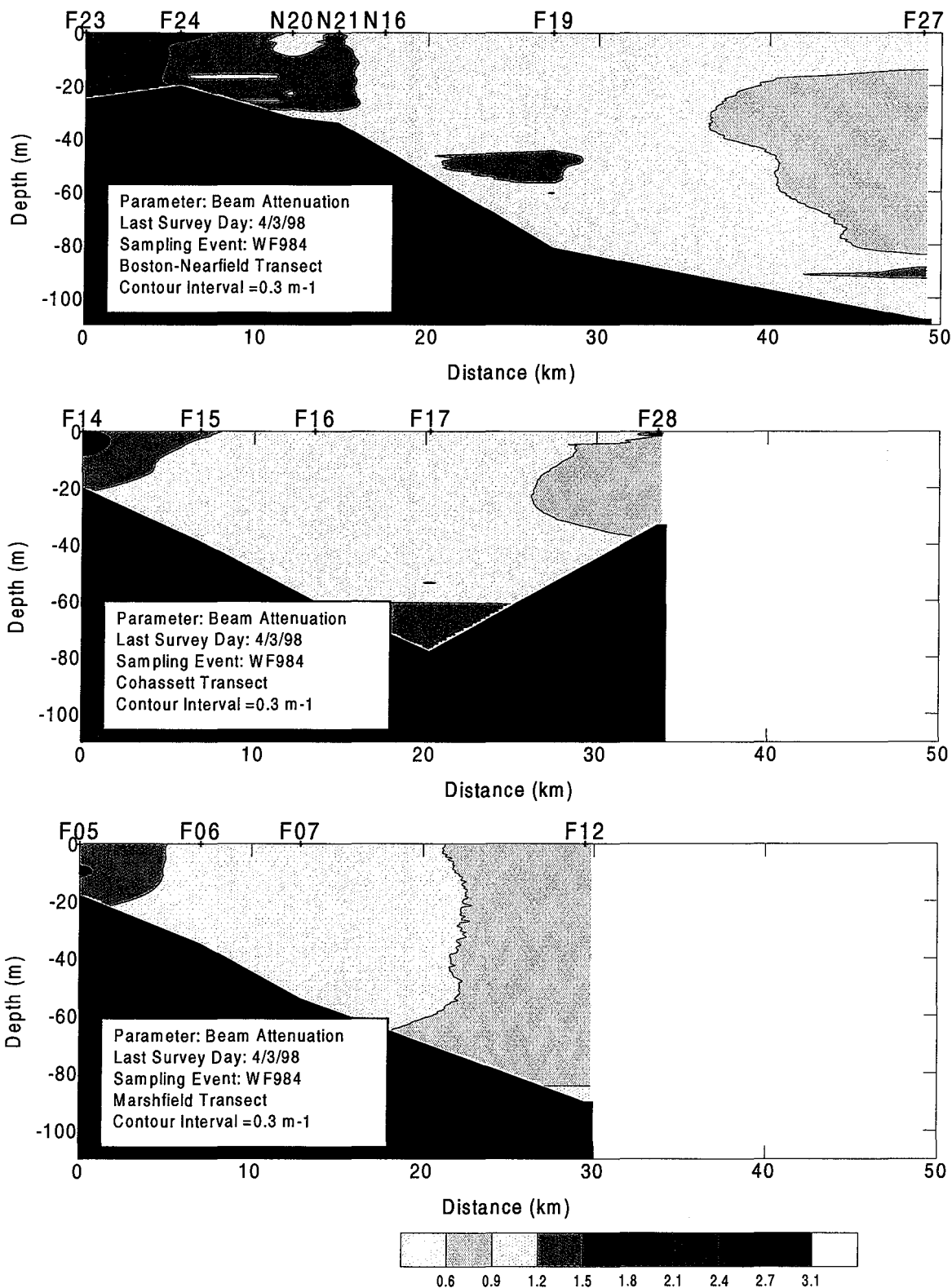


Figure C-29. Beam Attenuation Transect Plots (West - East) for Farfield Survey WF984 (Apr 98)

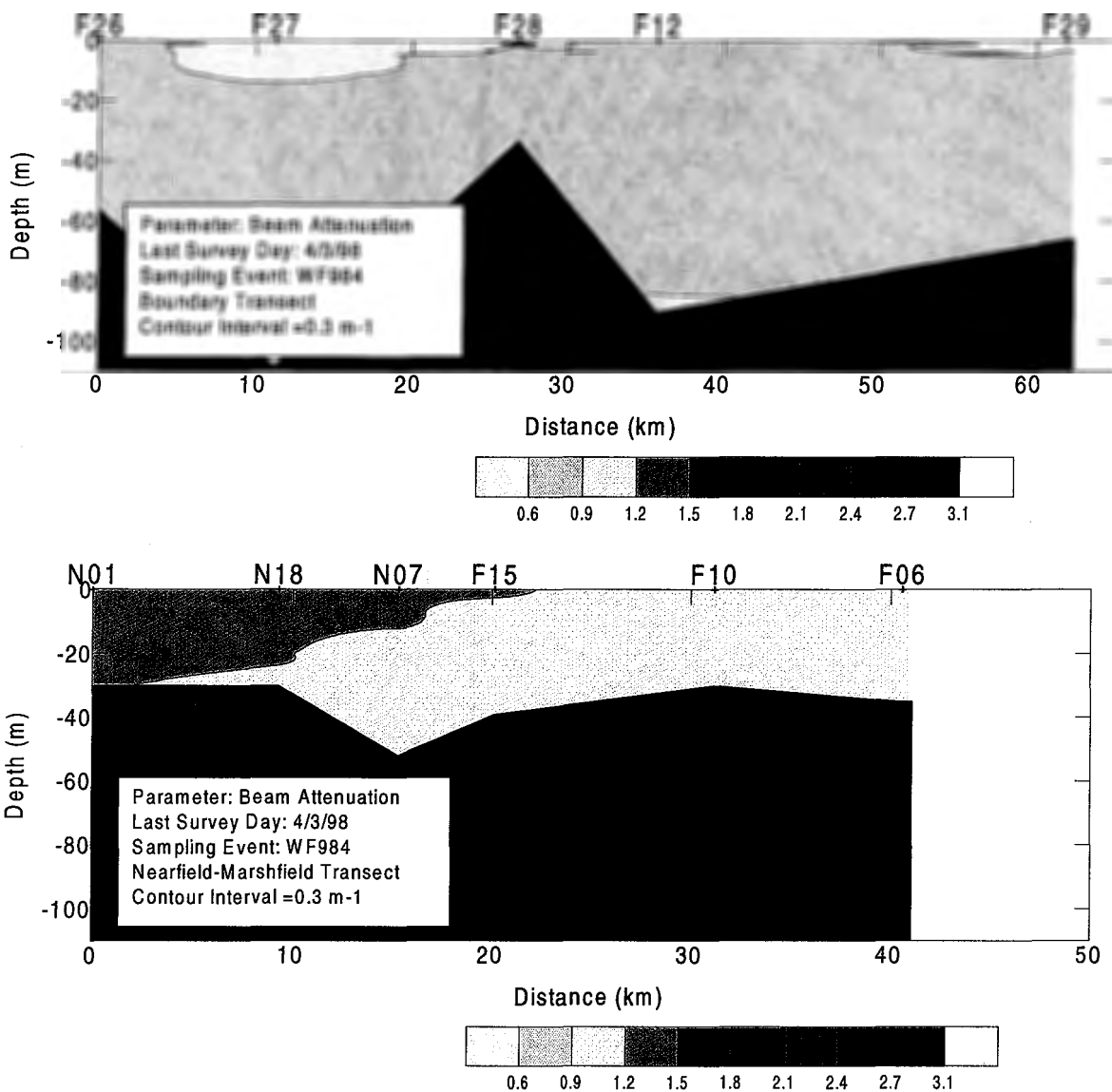


Figure C-30. Beam Attenuation Transect Plots (North - South) for Farfield Survey WF984 (Apr 98)

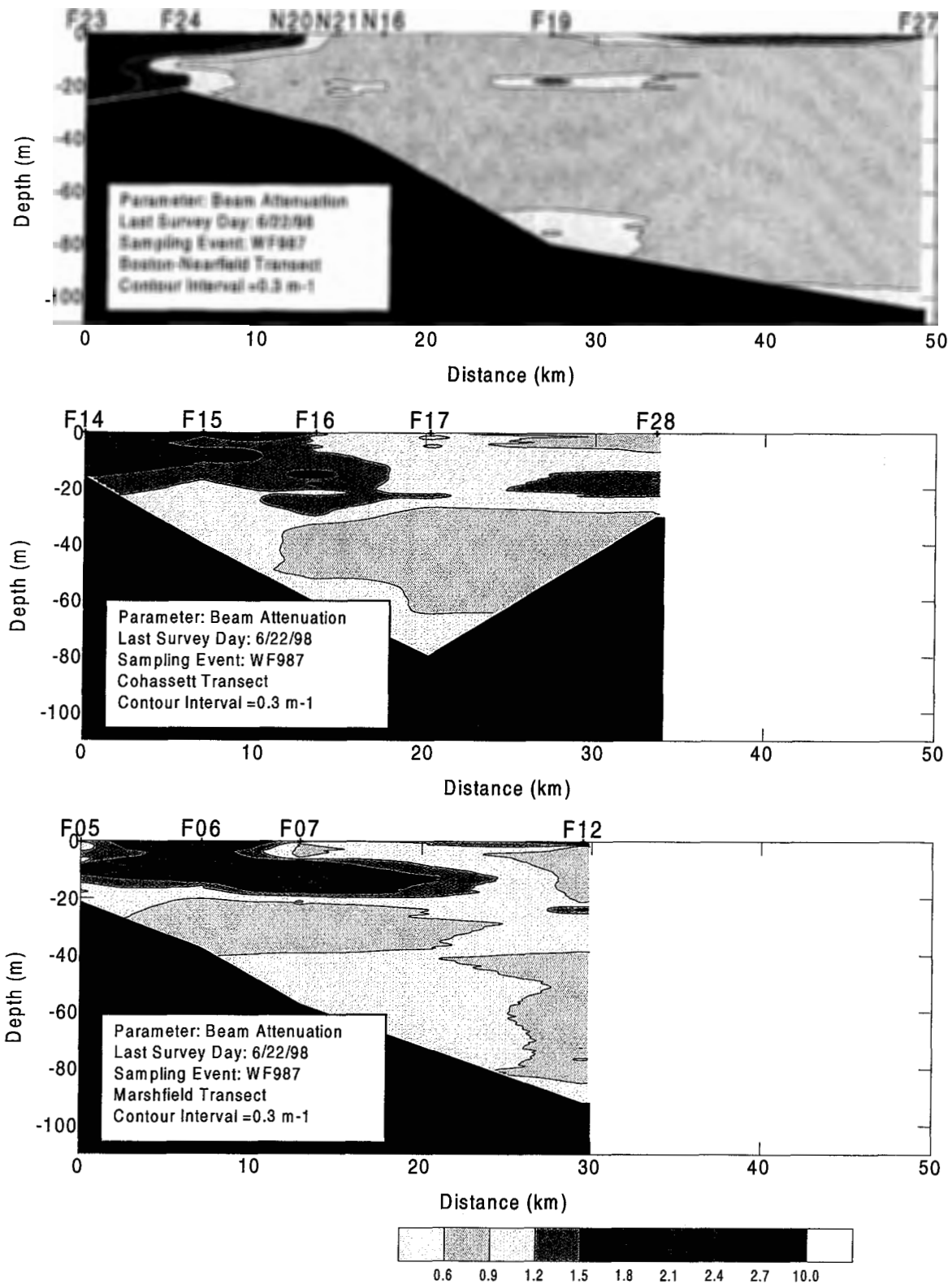


Figure C-31. Beam Attenuation Transect Plots (West - East) for Farfield Survey WF987 (Jun 98)

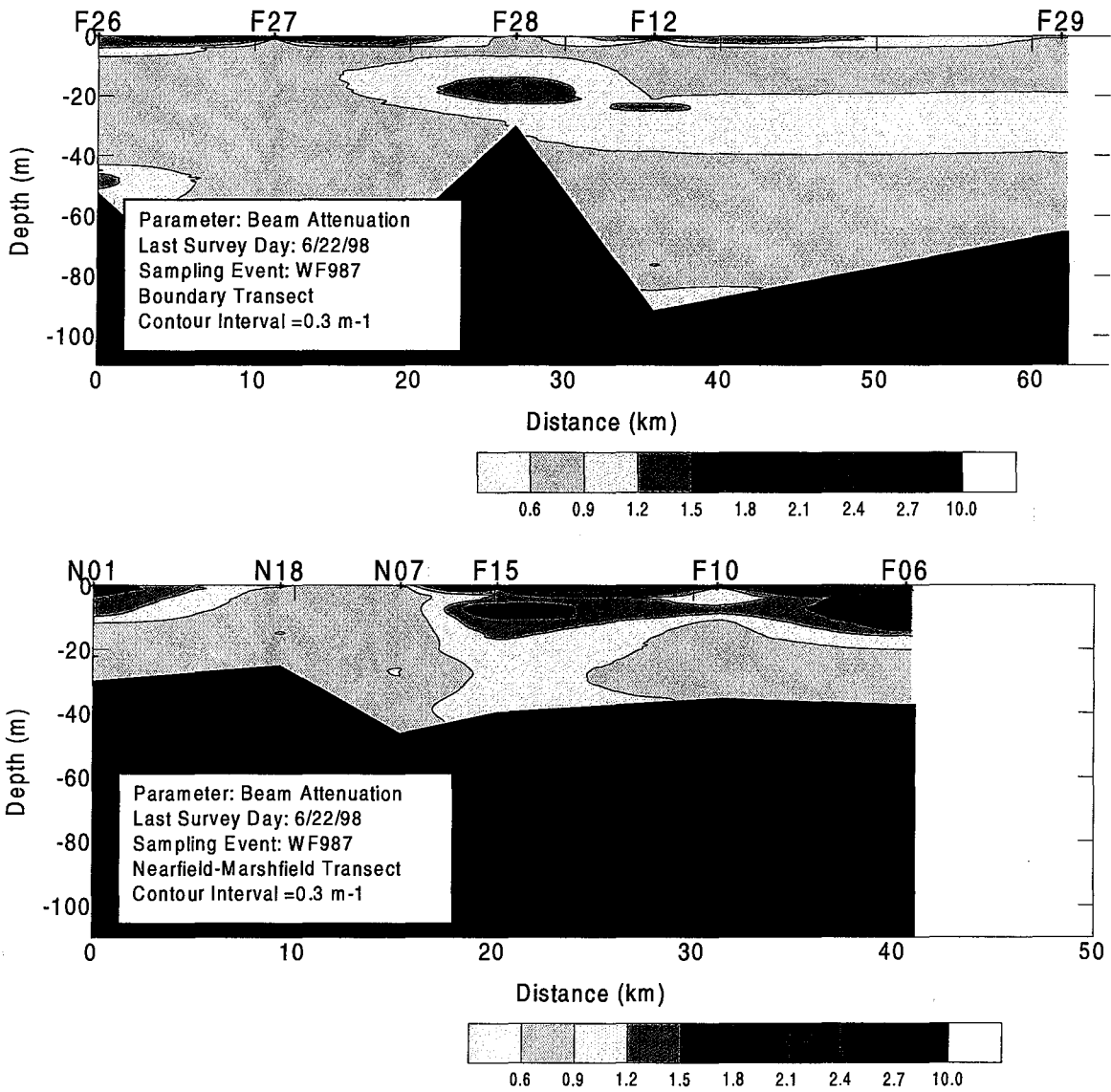


Figure C-32. Beam Attenuation Transect Plots (North - South) for Farfield Survey WF987 (Jun 98)

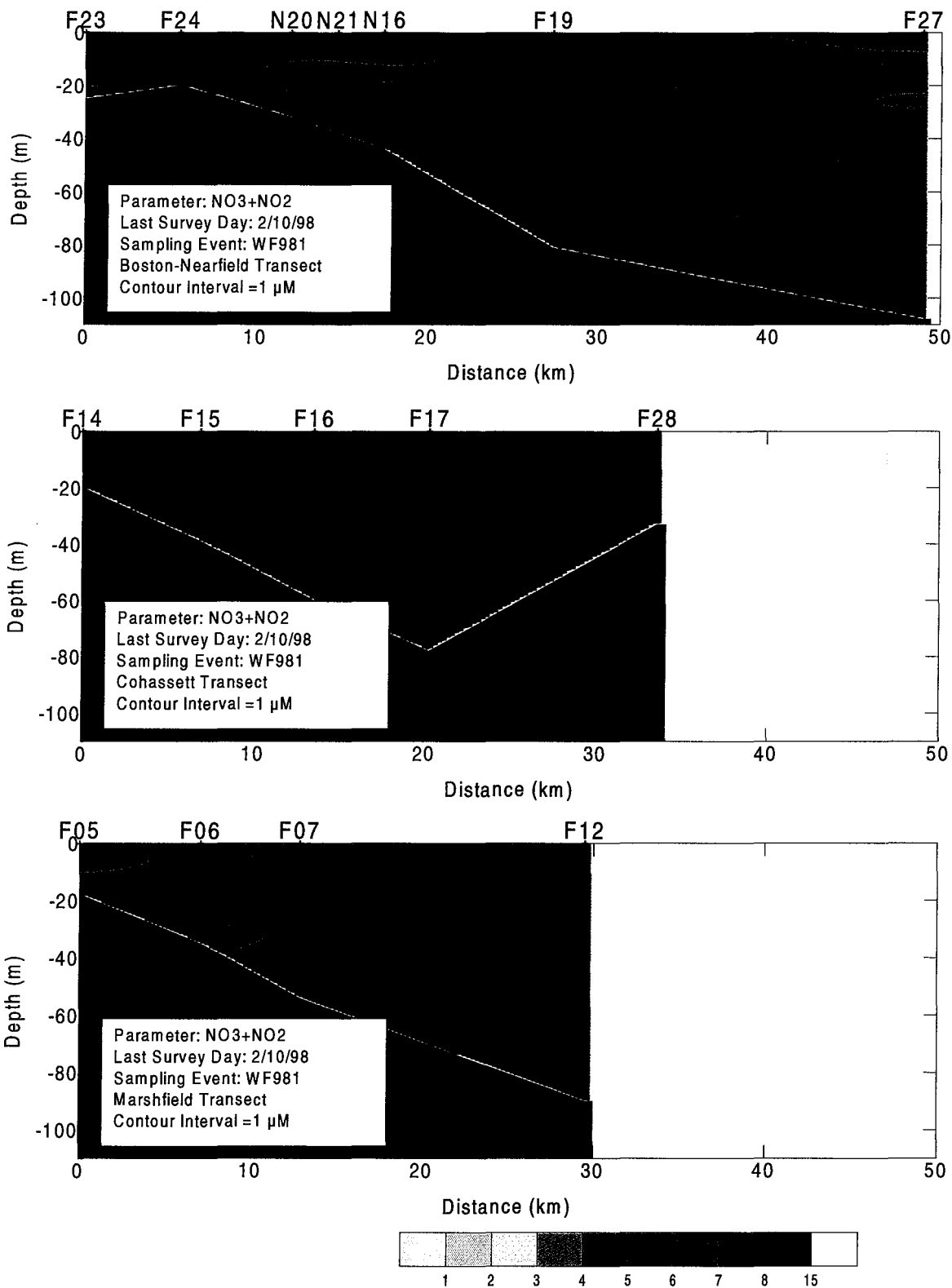
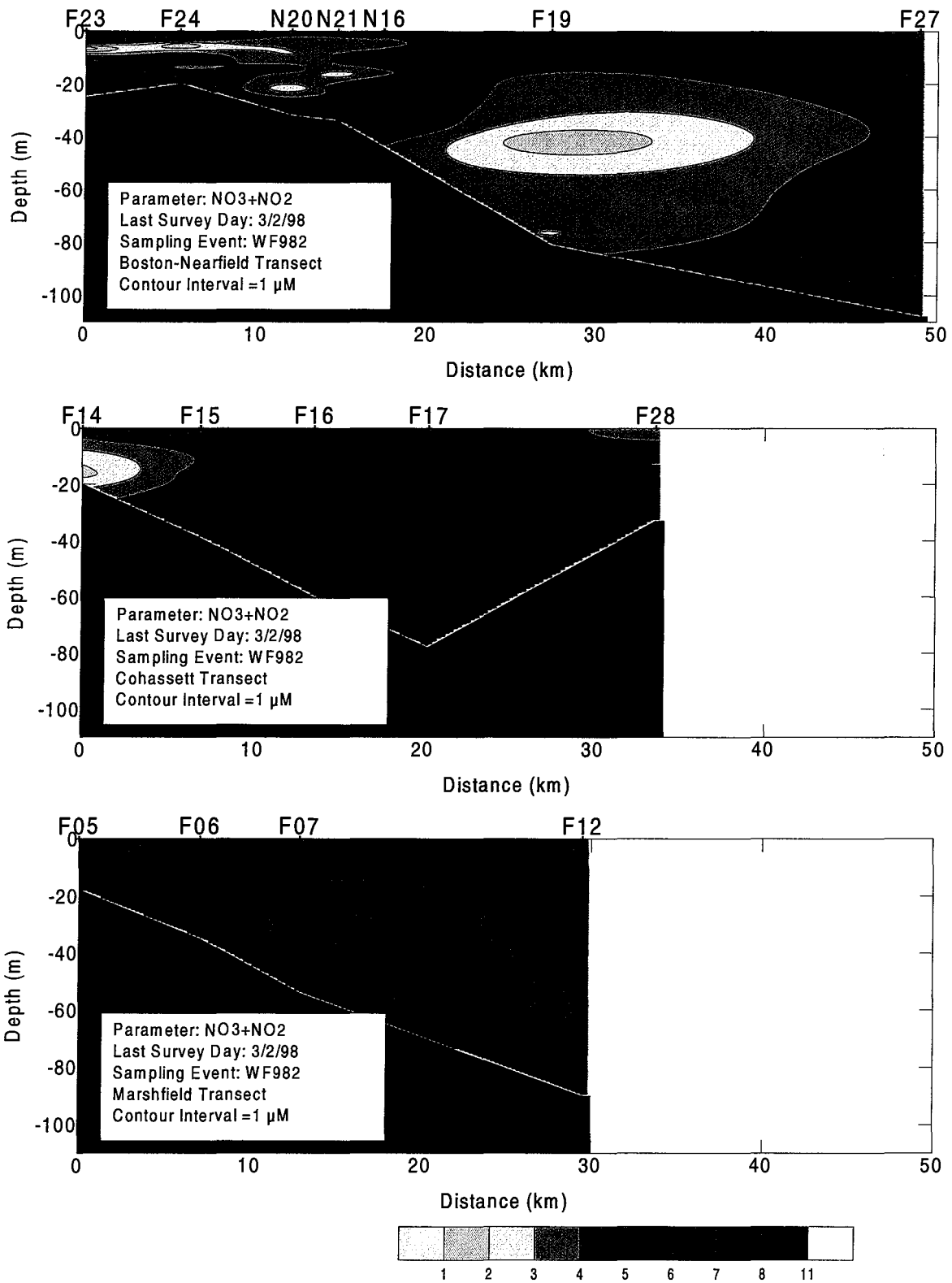


Figure C-33. Nitrate Plus Nitrite Transect Plots (West - East) for Farfield Survey WF981 (Feb 98)



**Figure C-34. Nitrate Plus Nitrite Transect Plots (West - East) for
 Earfield Survey WF982 (Feb 98)**

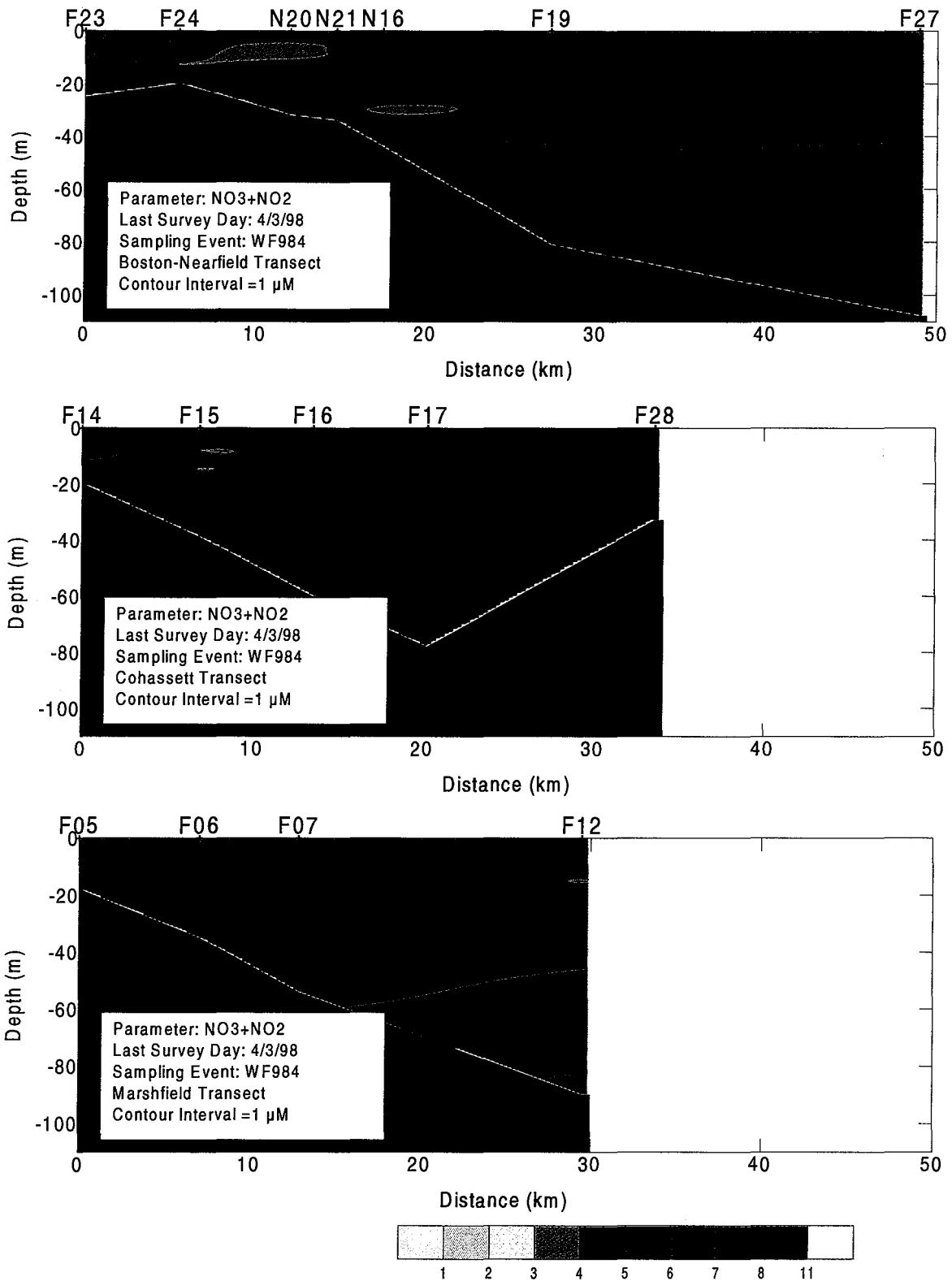


Figure C-35. Nitrate Plus Nitrite Transect Plots (West - East) for Farfield Survey WF984 (Apr 98)

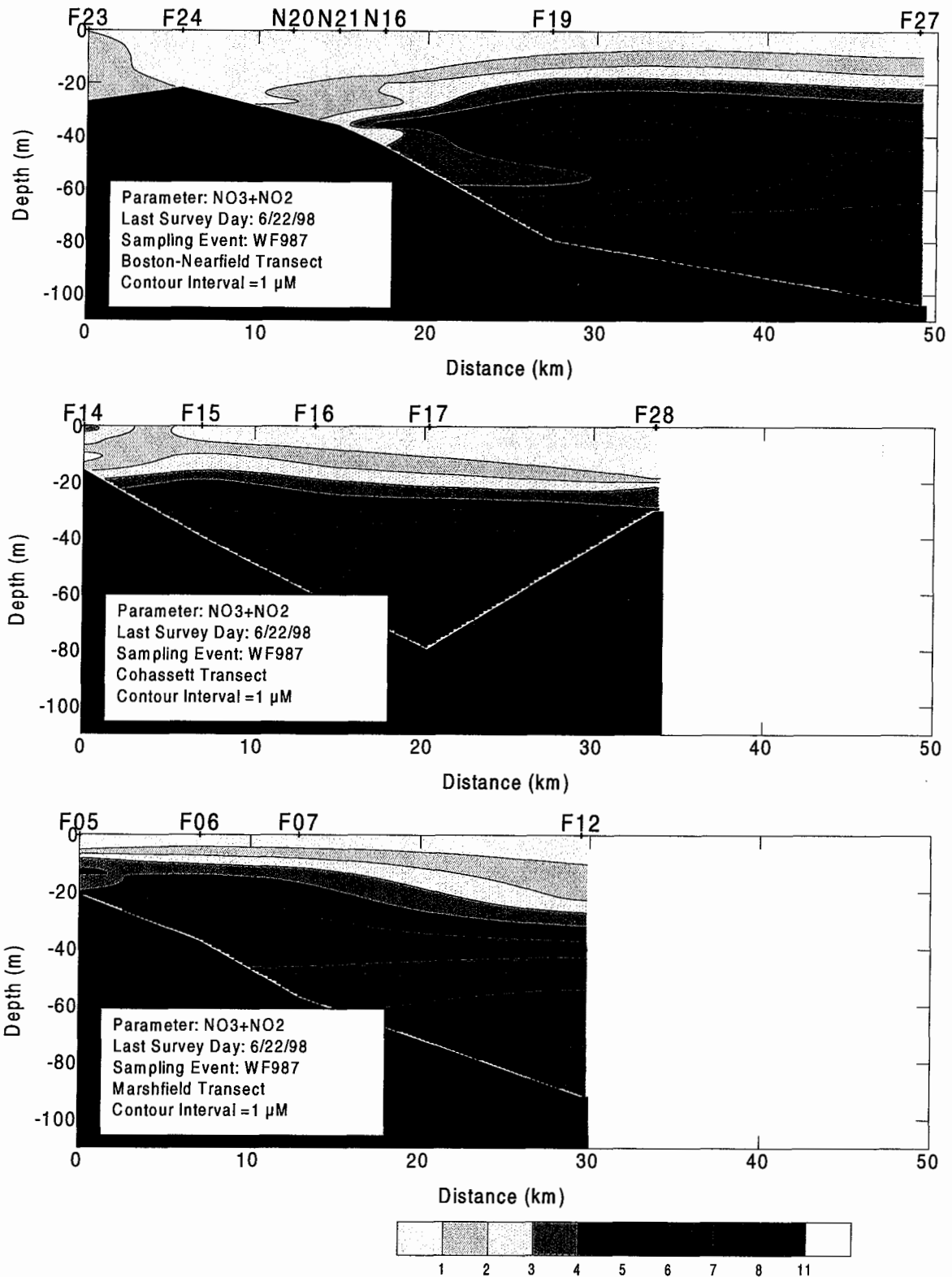


Figure C-36. Nitrate Plus Nitrite Transect Plots (West - East) for Farfield Survey WF987 (Jun 98)

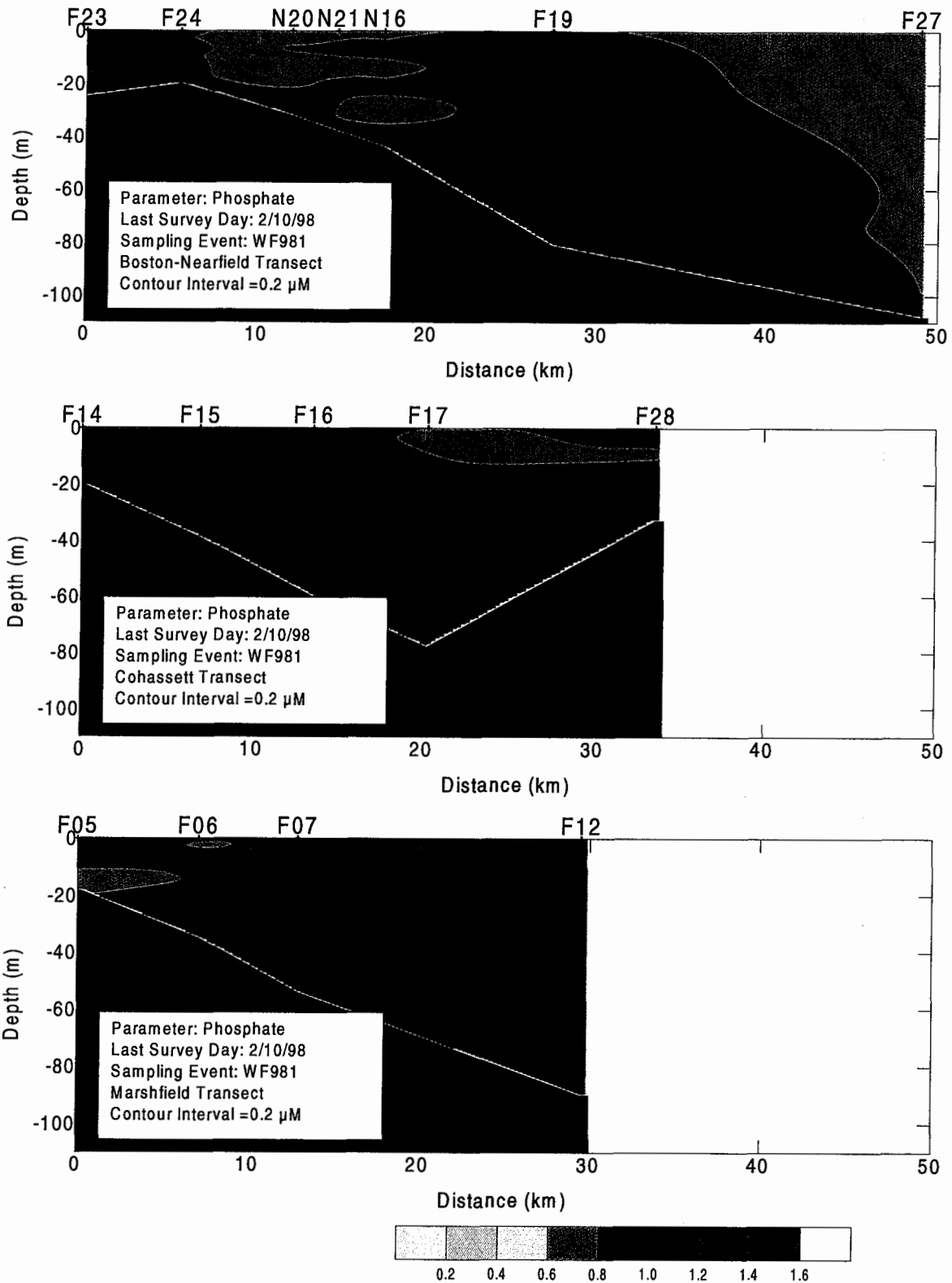


Figure C-37. Phosphate Transect Plots (West - East) for Farfield Survey WF981 (Feb 98)

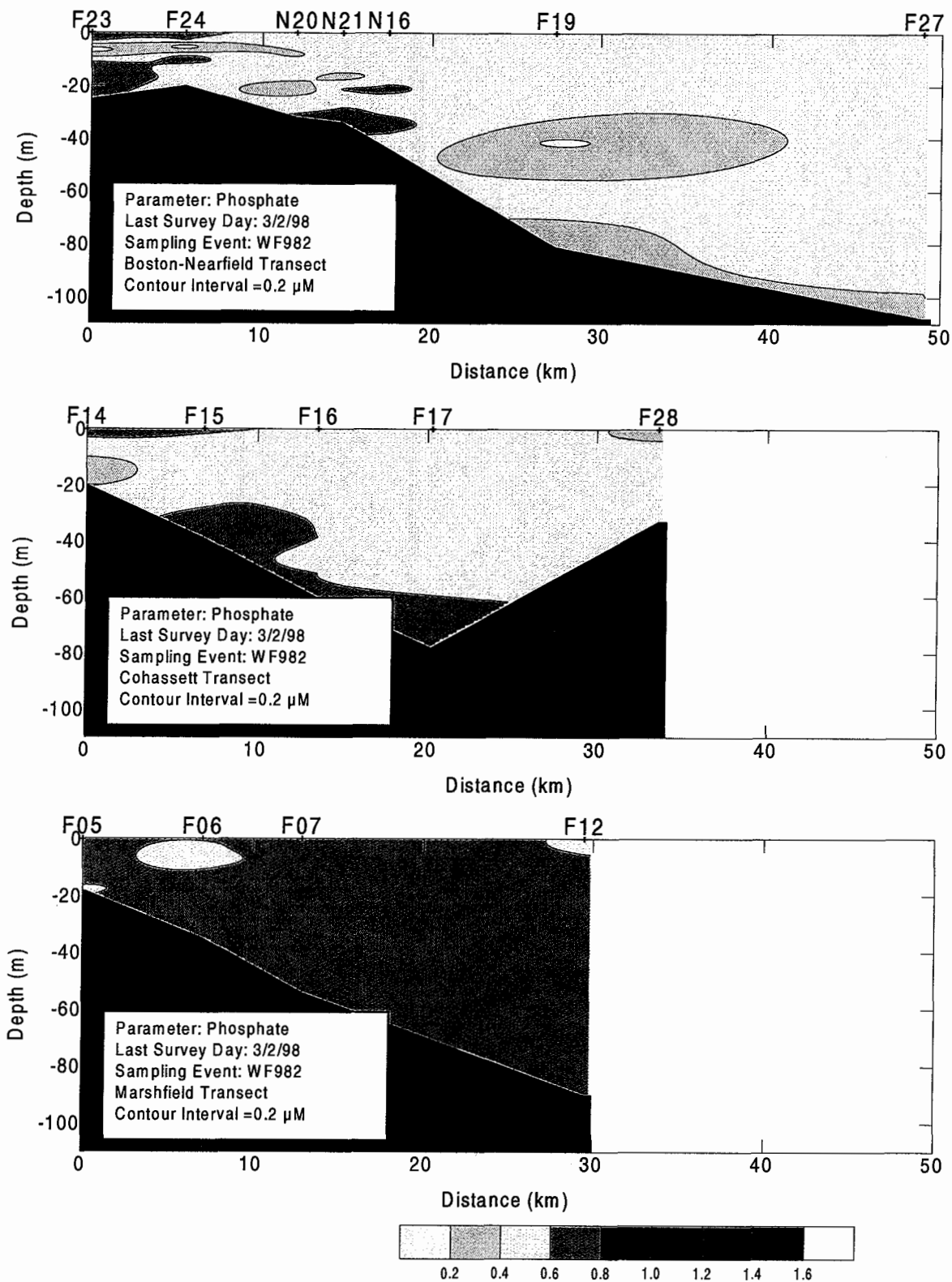


Figure C-38. Phosphate Transect Plots (West - East) for Farfield Survey WF982 (Feb 98)

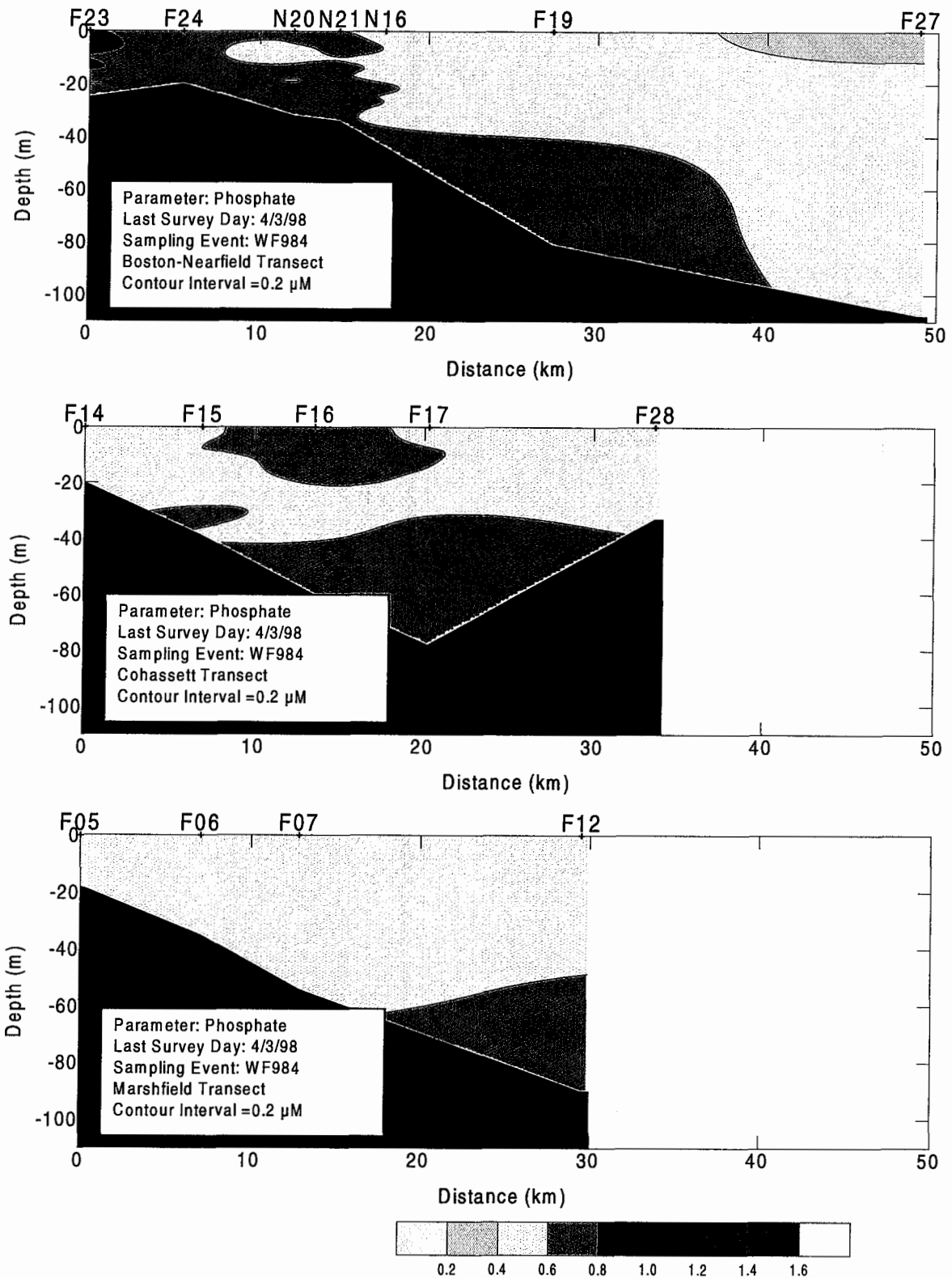


Figure C-39. Phosphate Transect Plots (West - East) for Farfield Survey WF984 (Apr 98)

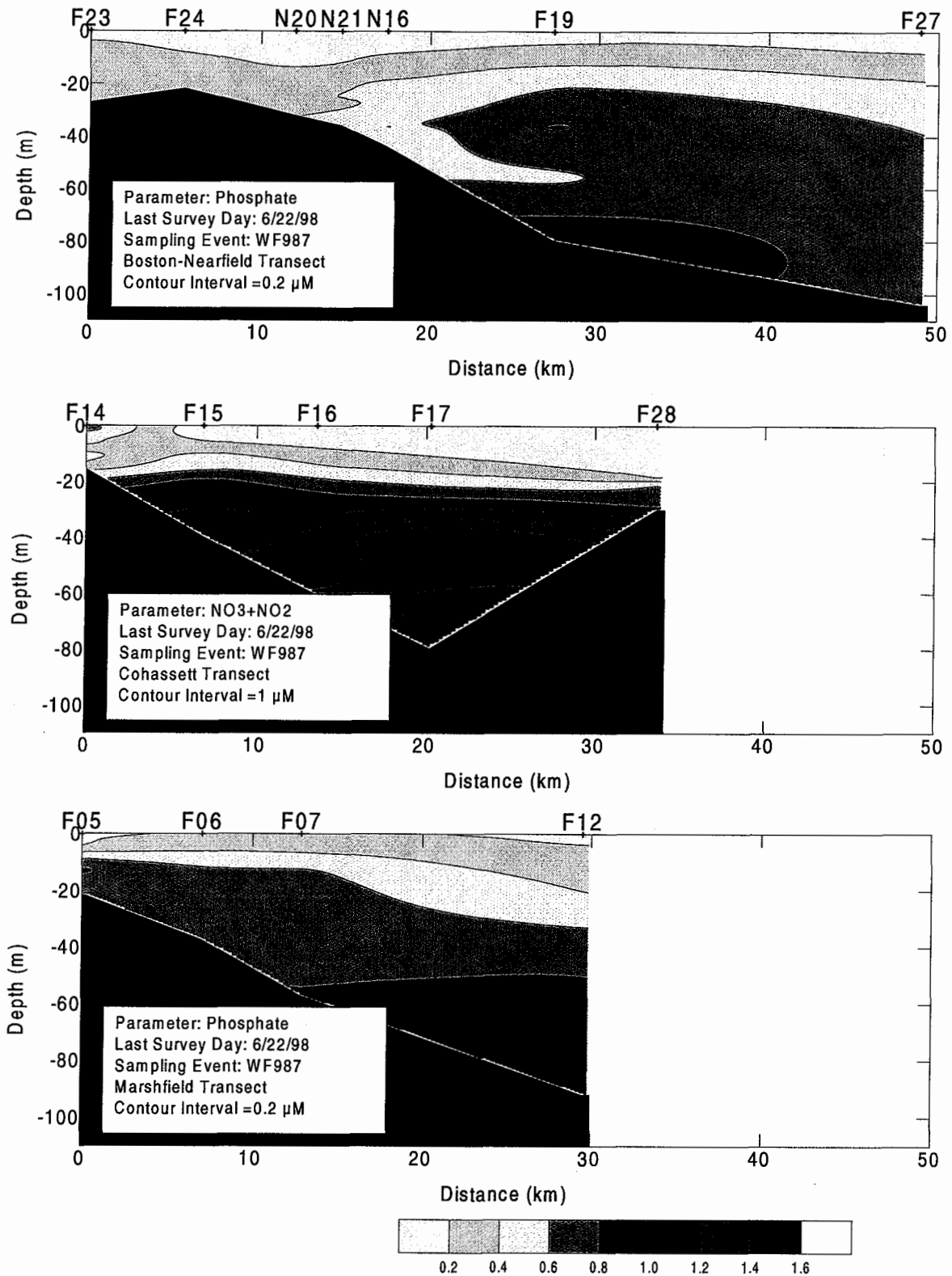


Figure C-40. Phosphate Transect Plots (West - East) for Farfield Survey WF987 (Jun 98)

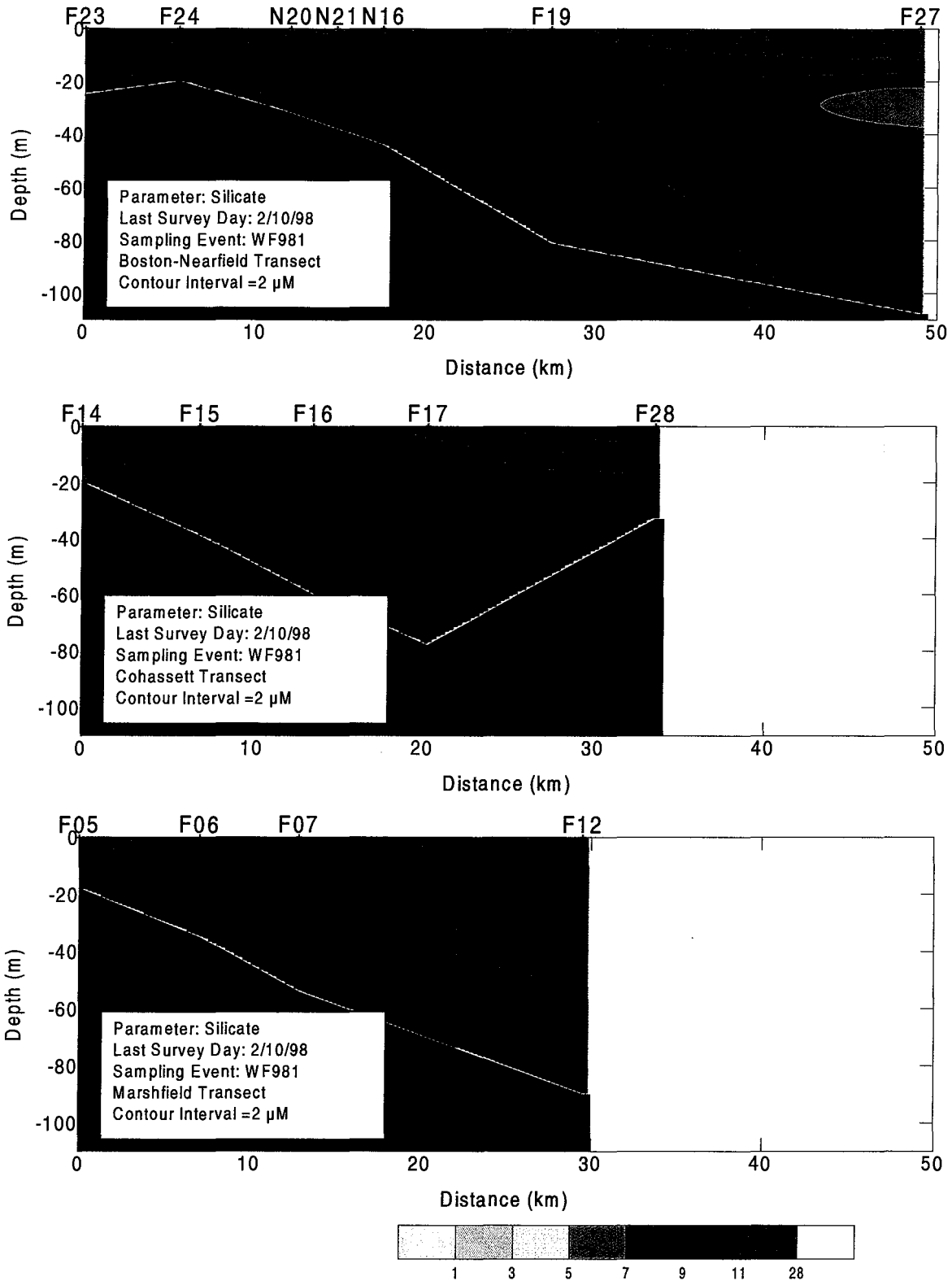


Figure C-41. Silicate Transect Plots (West - East) for Farfield Survey WF981 (Feb 98)

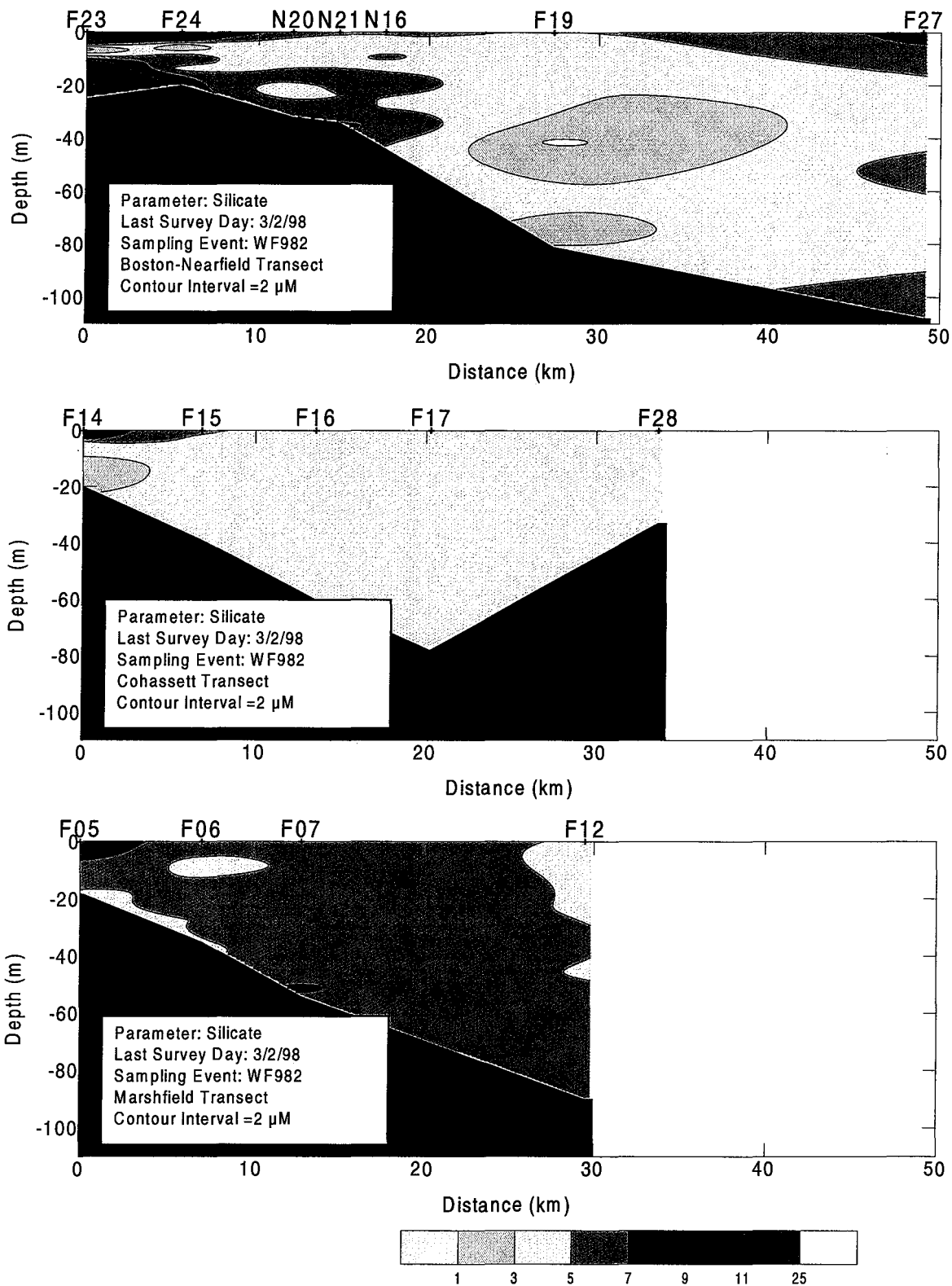


Figure C-42. Silicate Transect Plots (West - East) for Farfield Survey WF982 (Feb 98)

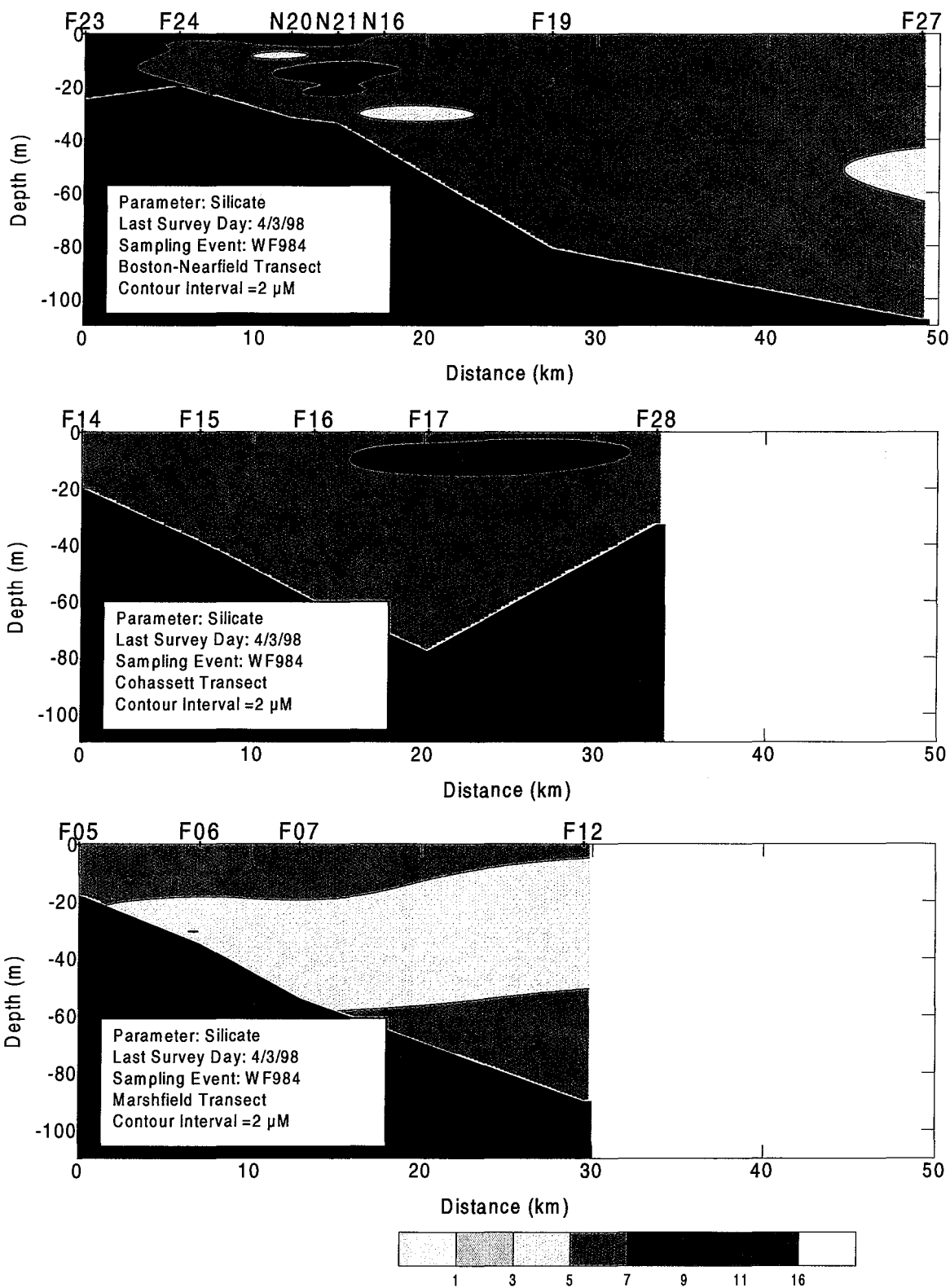


Figure C-43. Silicate Transect Plots (West - East) for Farfield Survey WF984 (Apr 98)

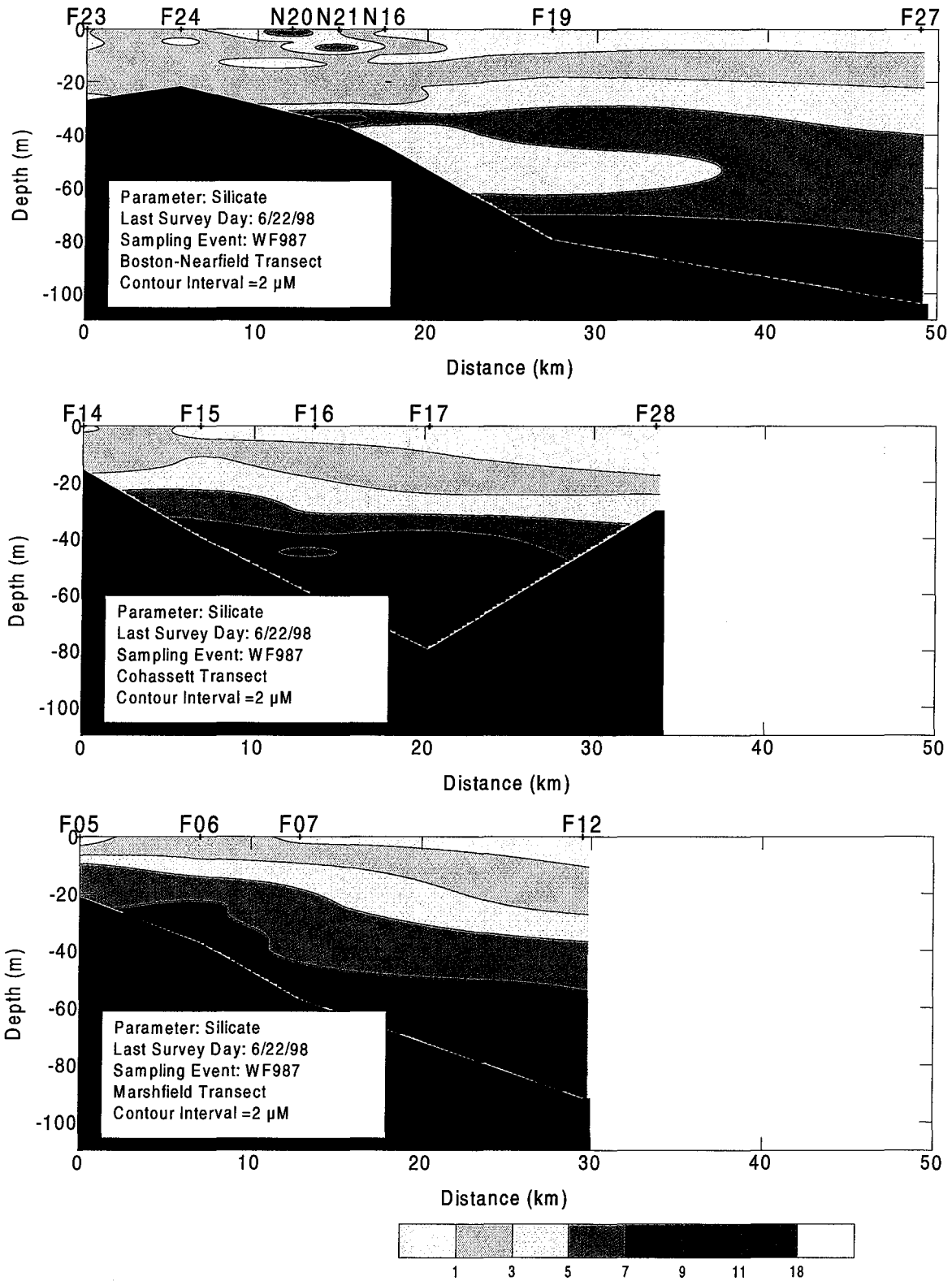


Figure C-44. Silicate Transect Plots (West - East) for Farfield Survey WF987 (Jun 98)

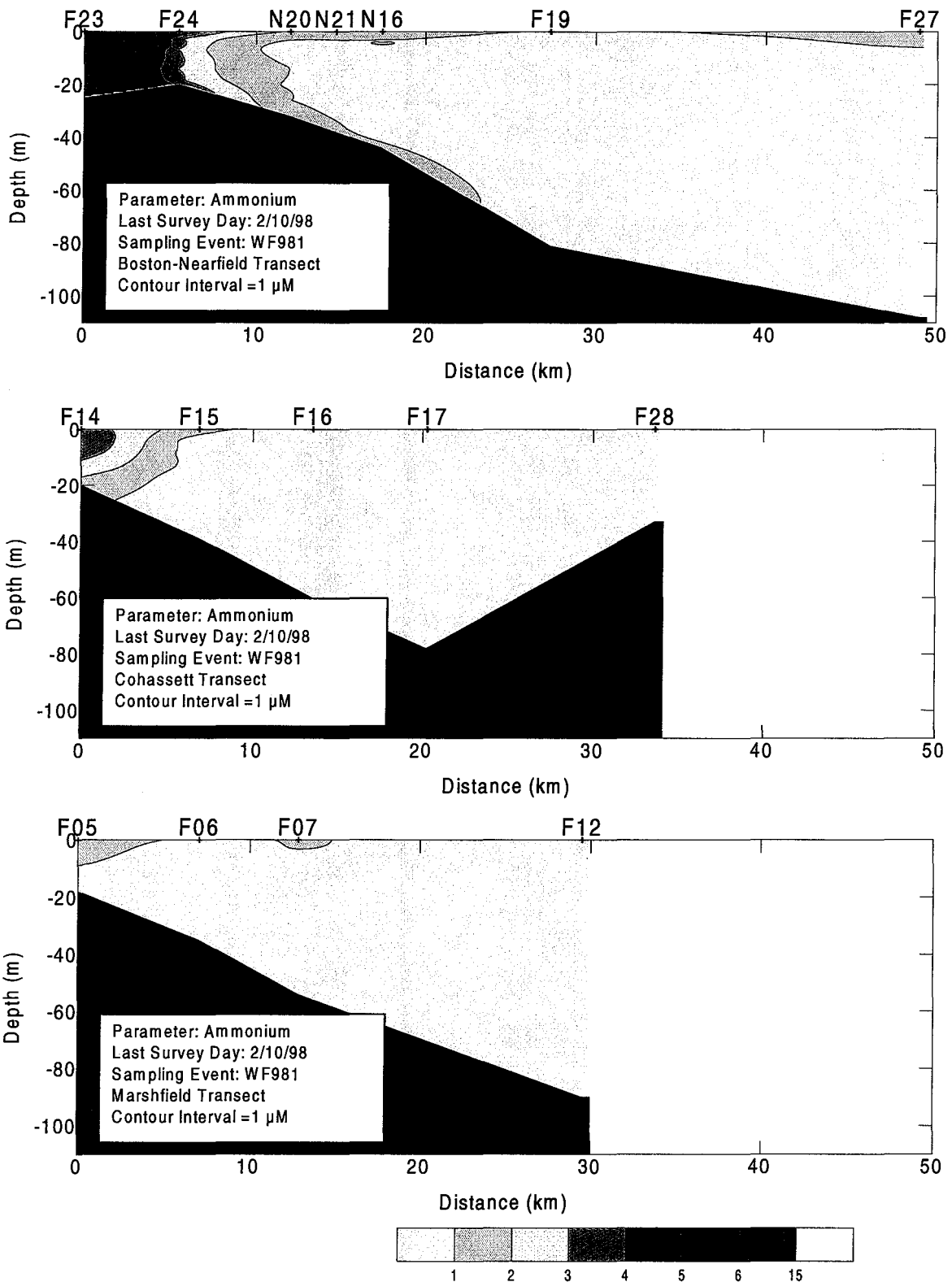


Figure C-45. Ammonium Transect Plots (West - East) for Farfield Survey WF981 (Feb 98)

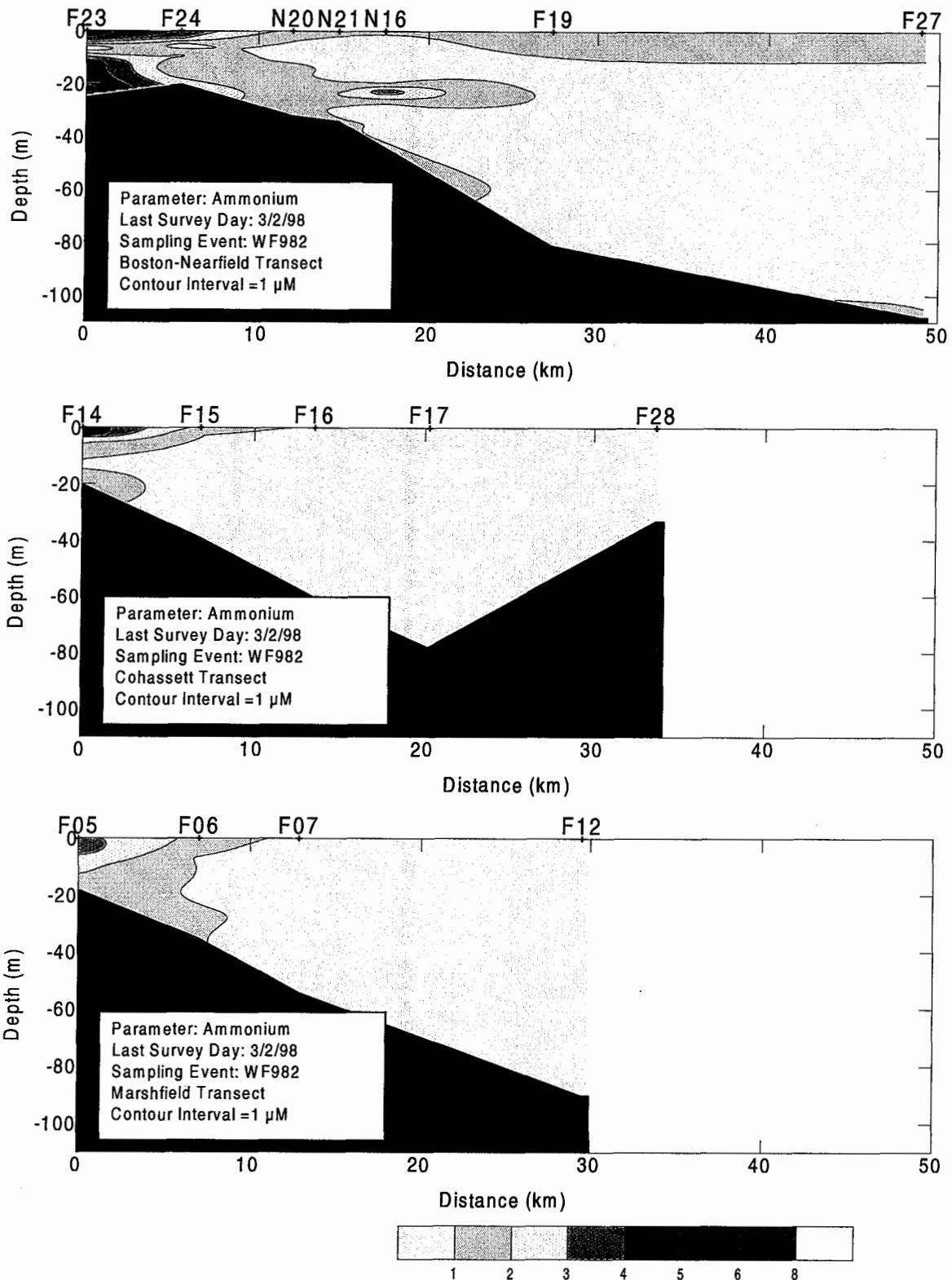


Figure C-46. Ammonium Transect Plots (West - East) for Farfield Survey WF982 (Feb 98)

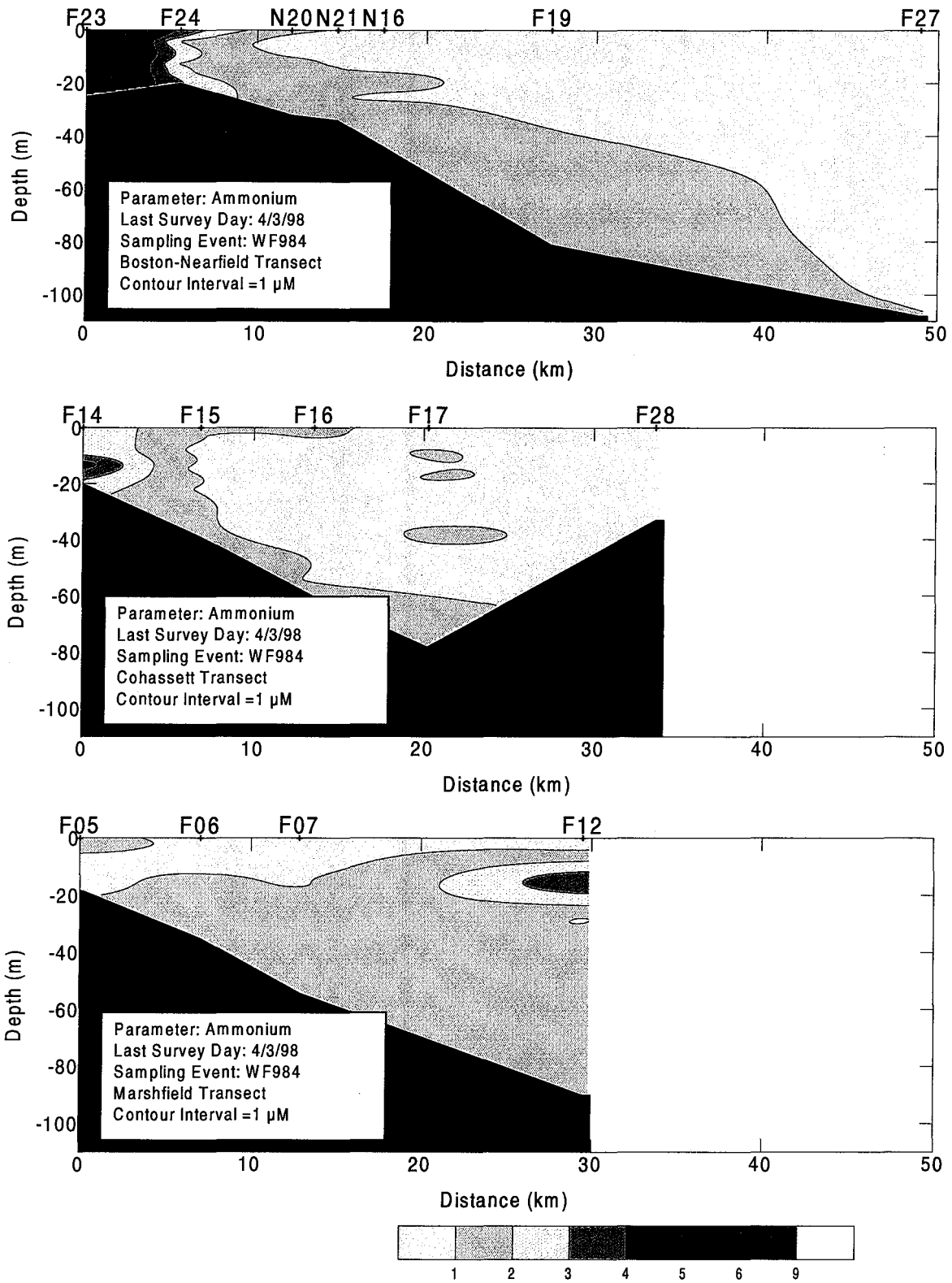


Figure C-47. Ammonium Transect Plots (West - East) for Farfield Survey WF984 (Apr 98)

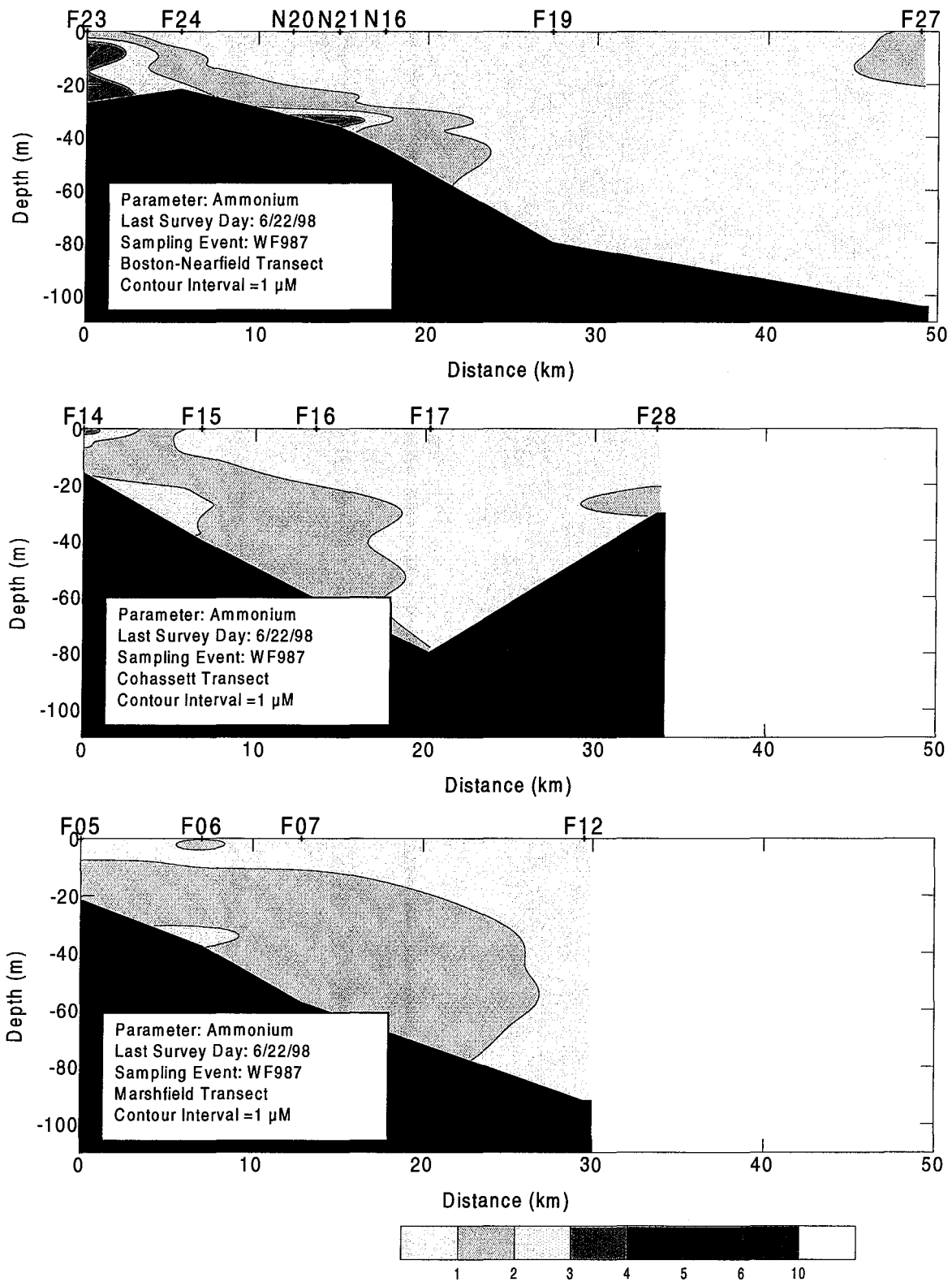


Figure C-48. Ammonium Transect Plots (West - East) for Farfield Survey WF987 (Jun 98)

No plots are available for farfield survey WF981 due to equipment failure.

Figure C-49. Fluorescence Transect Plots for Farfield Survey WF981 (Feb 98)

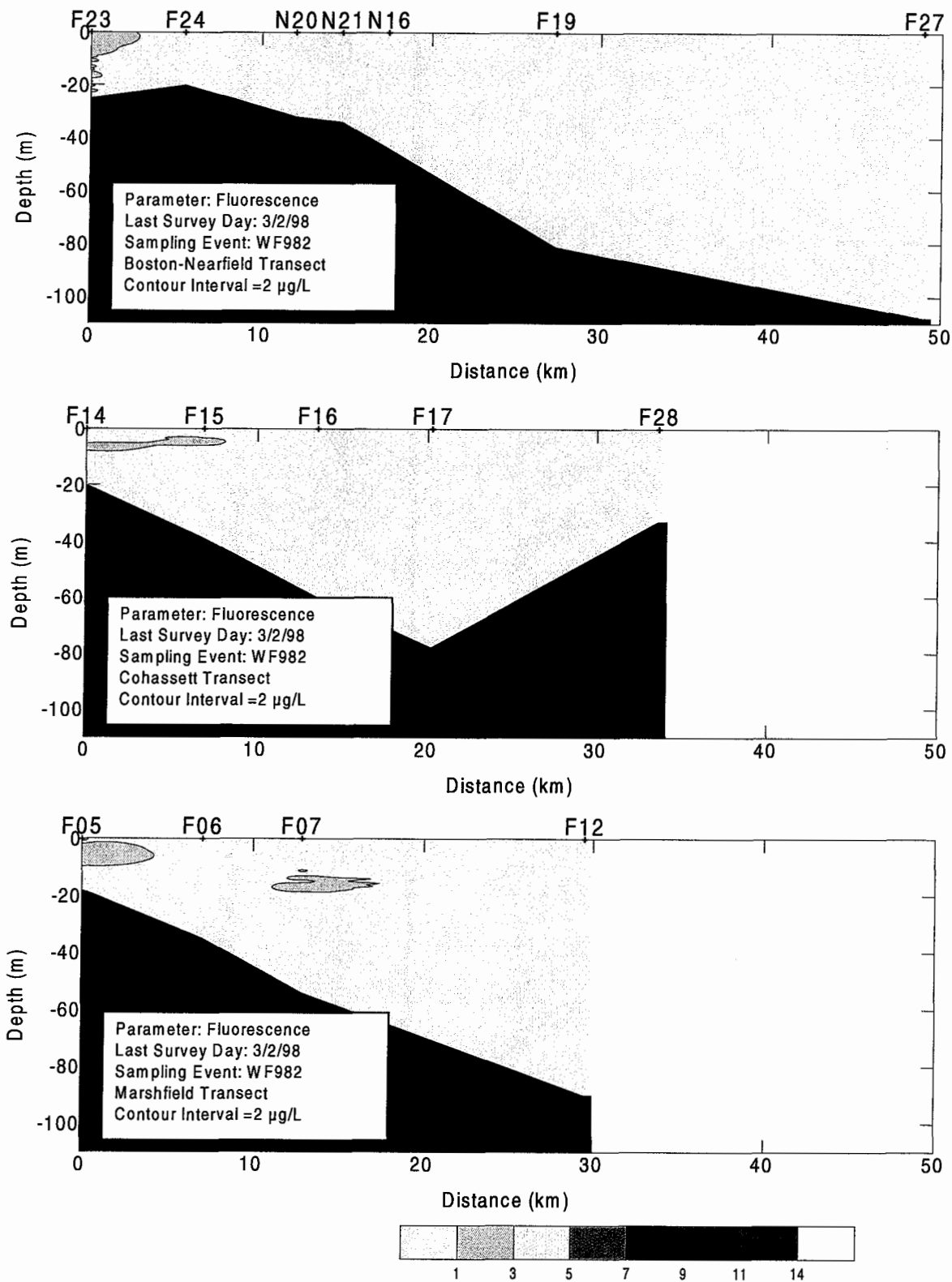


Figure C-50. Fluorescence Transect Plots (West - East) for Farfield Survey WF982 (Feb 98)

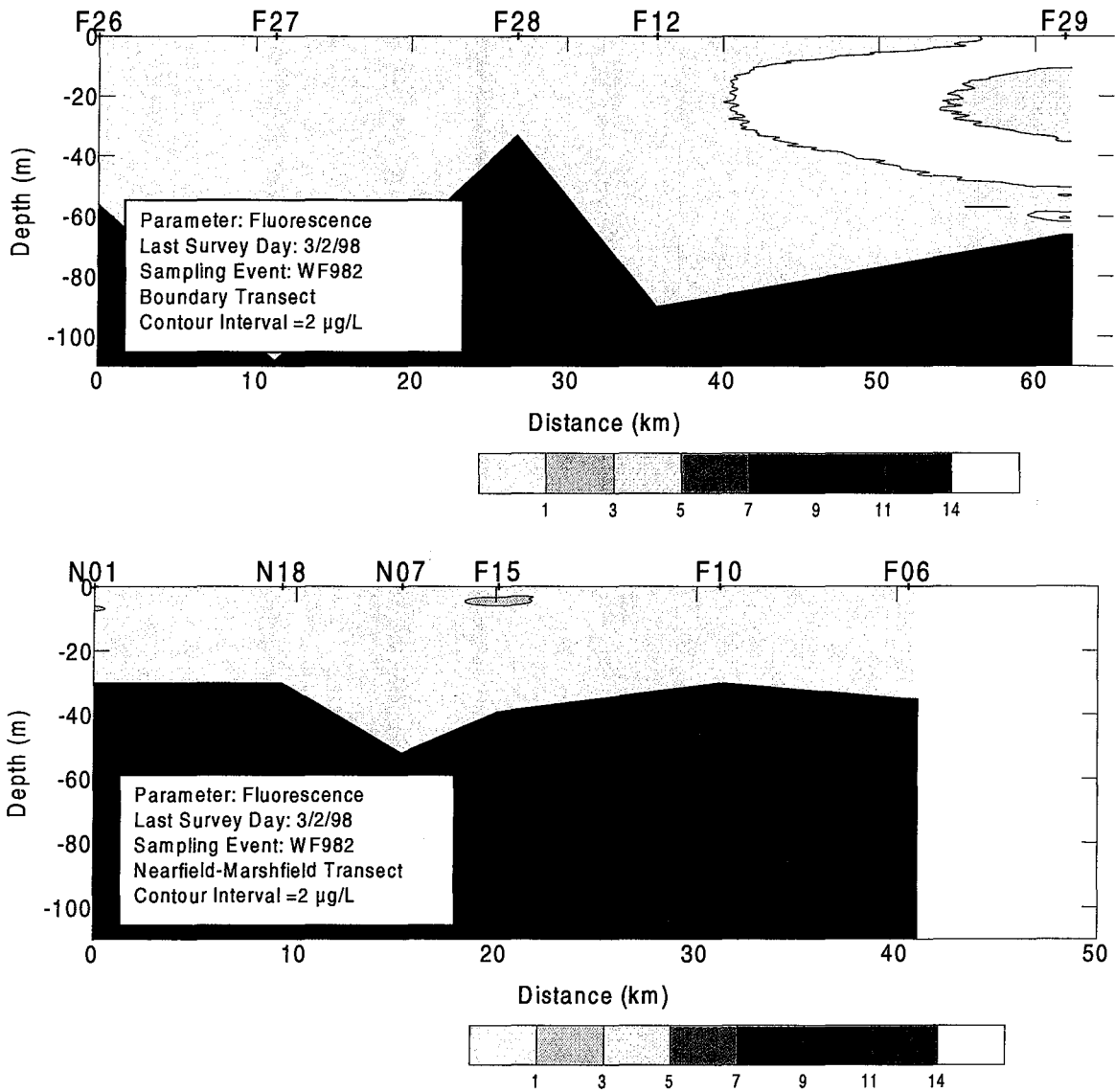


Figure C-51. Fluorescence Transect Plots (North - South) for Farfield Survey WF982 (Feb 98)

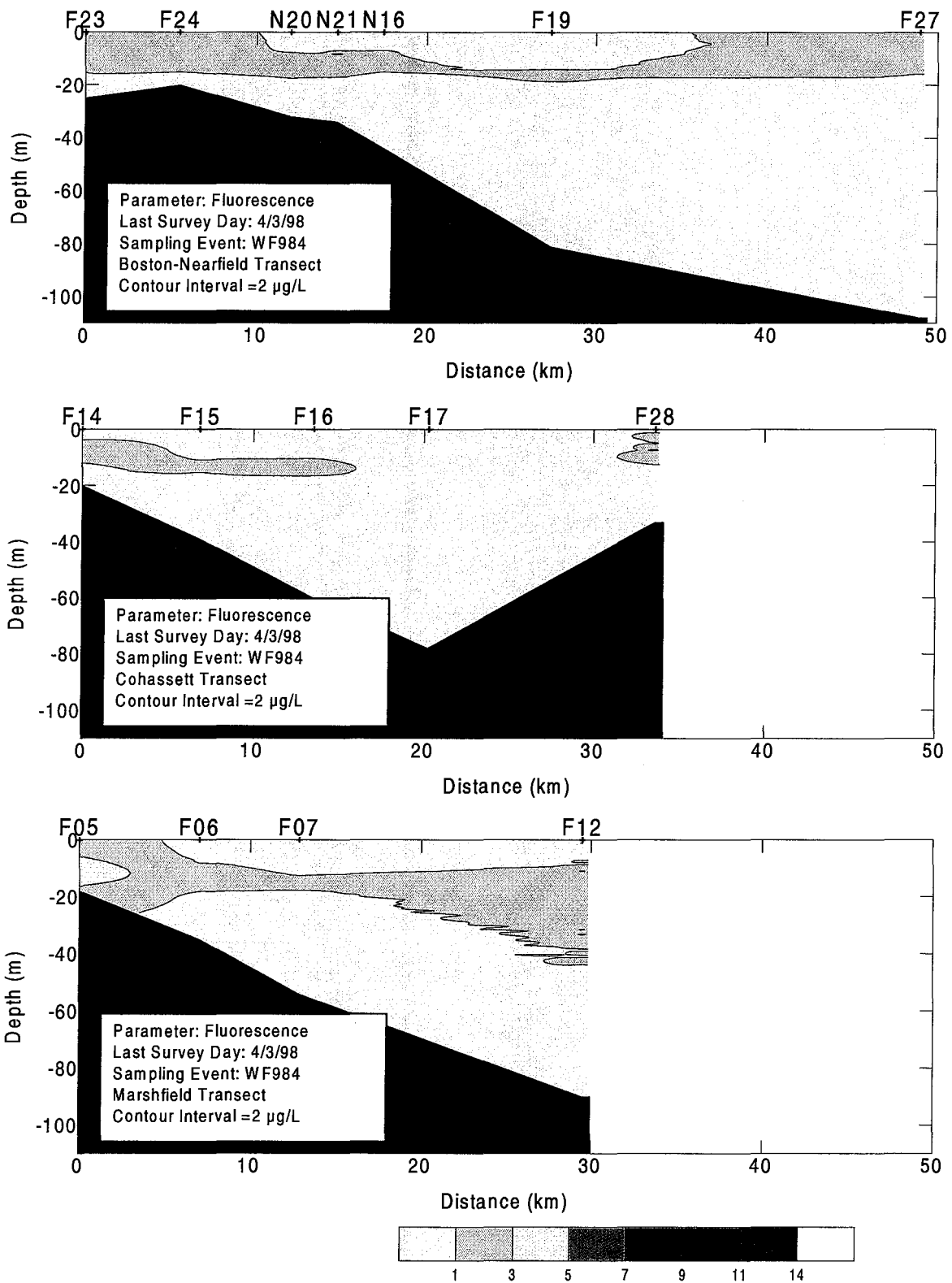


Figure C-52. Fluorescence Transect Plots (West - East) for Farfield Survey WF984 (Apr 98)

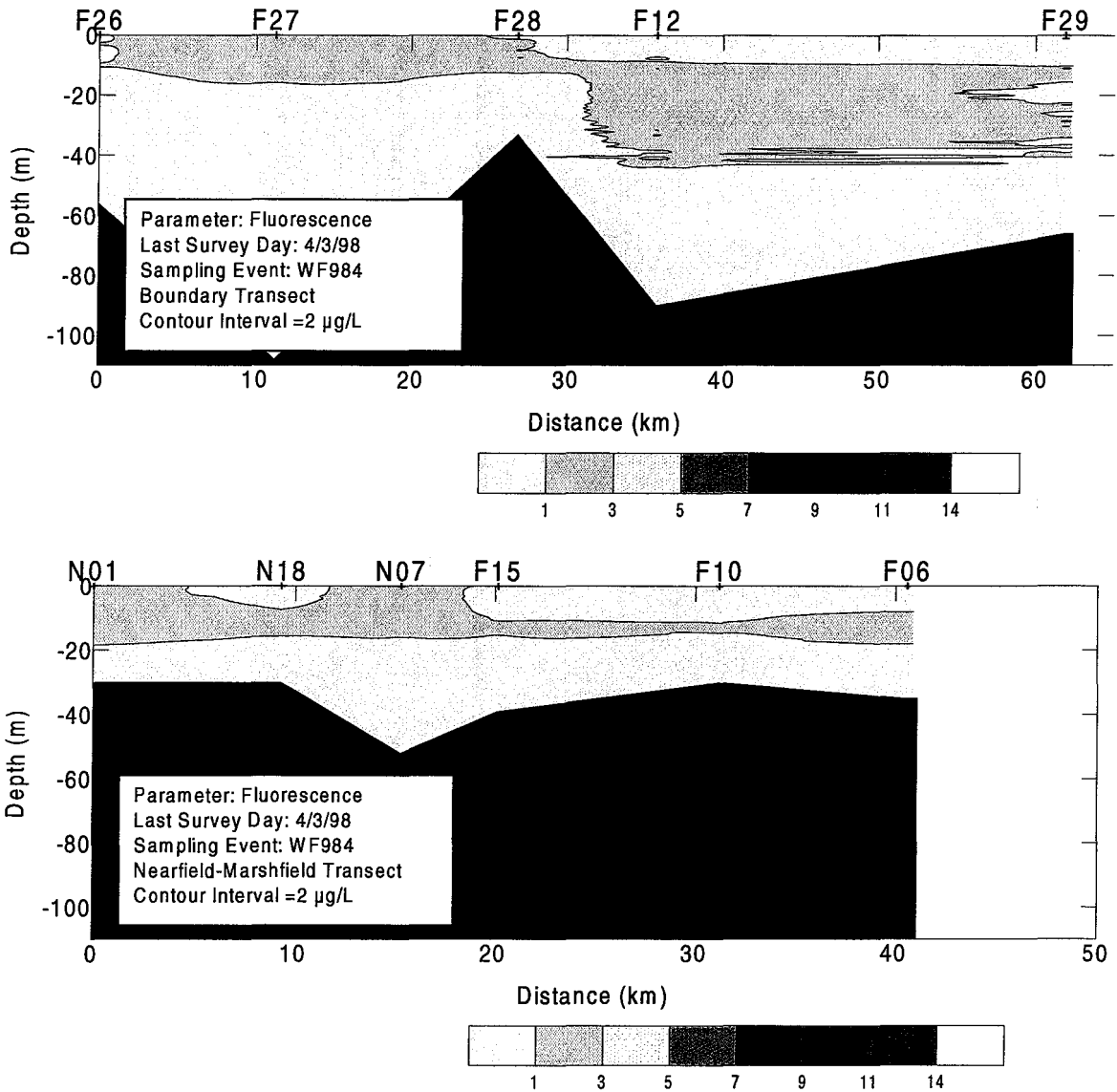


Figure C-53. Fluorescence Transect Plots (North - South) for Farfield Survey WF984 (Apr 98)

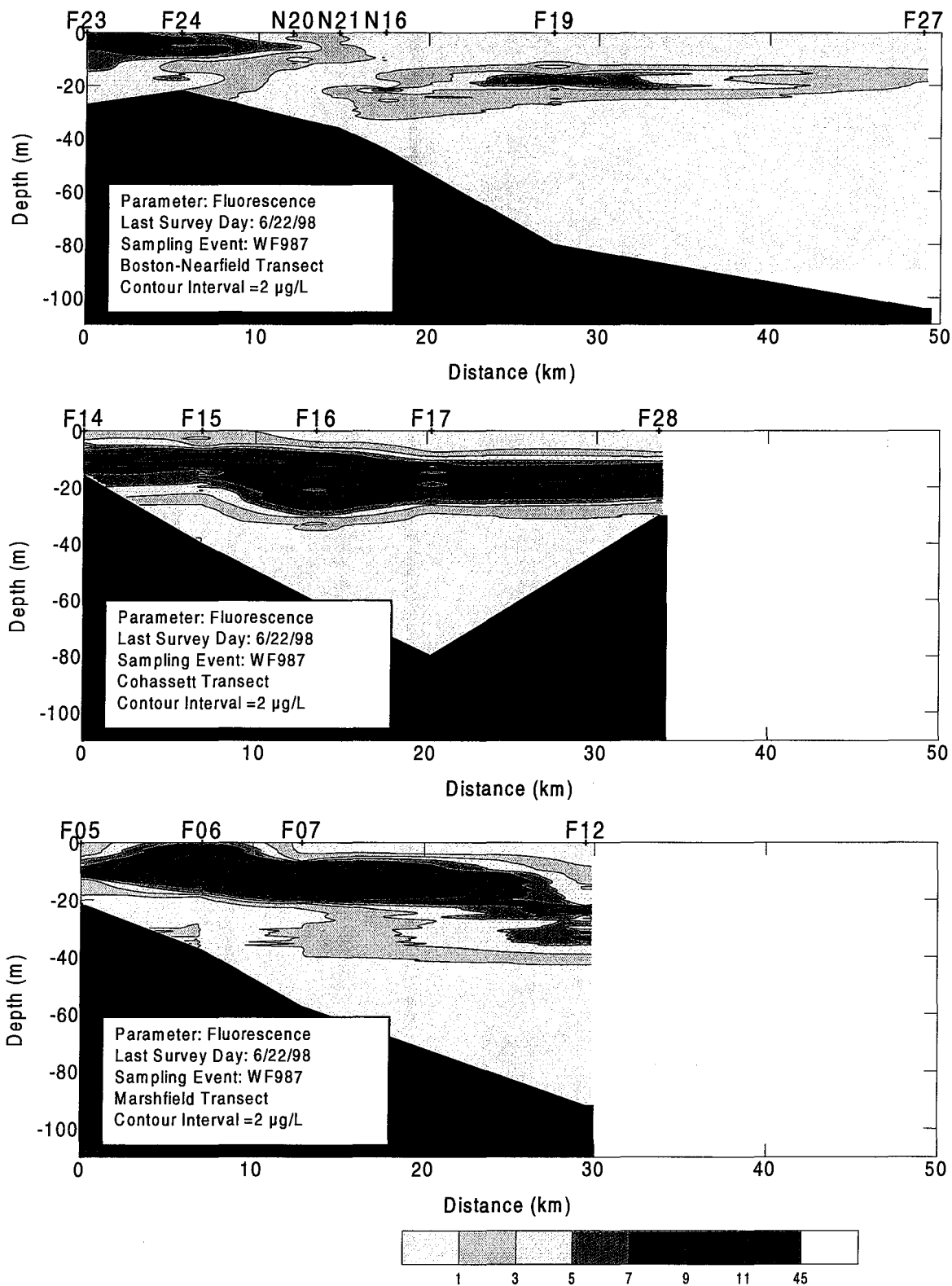


Figure C-54. Fluorescence Transect Plots (West - East) for Farfield Survey WF987 (Jun 98)

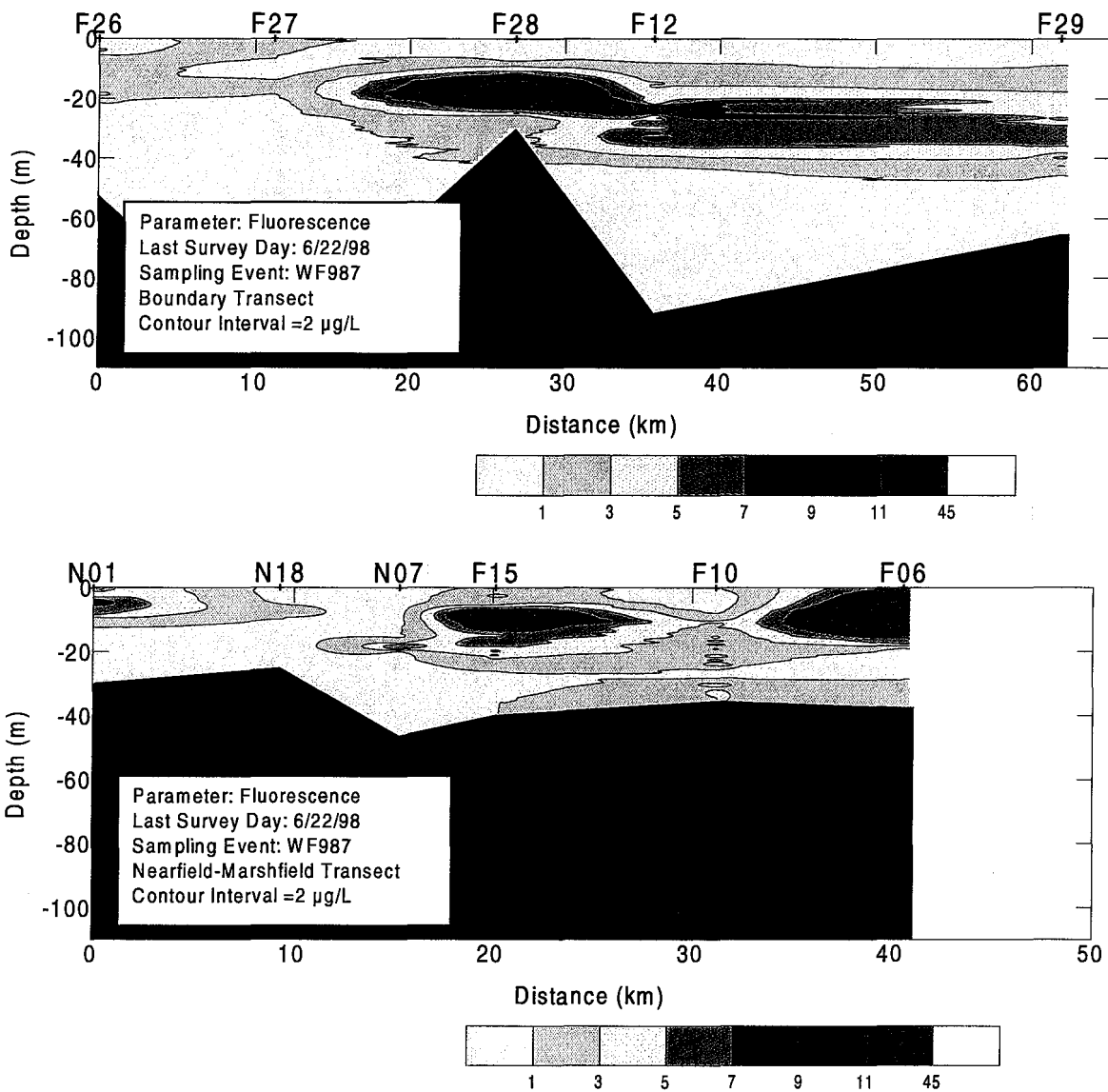


Figure C-55. Fluorescence Transect Plots (North - South) for Farfield Survey WF987 (Jun 98)

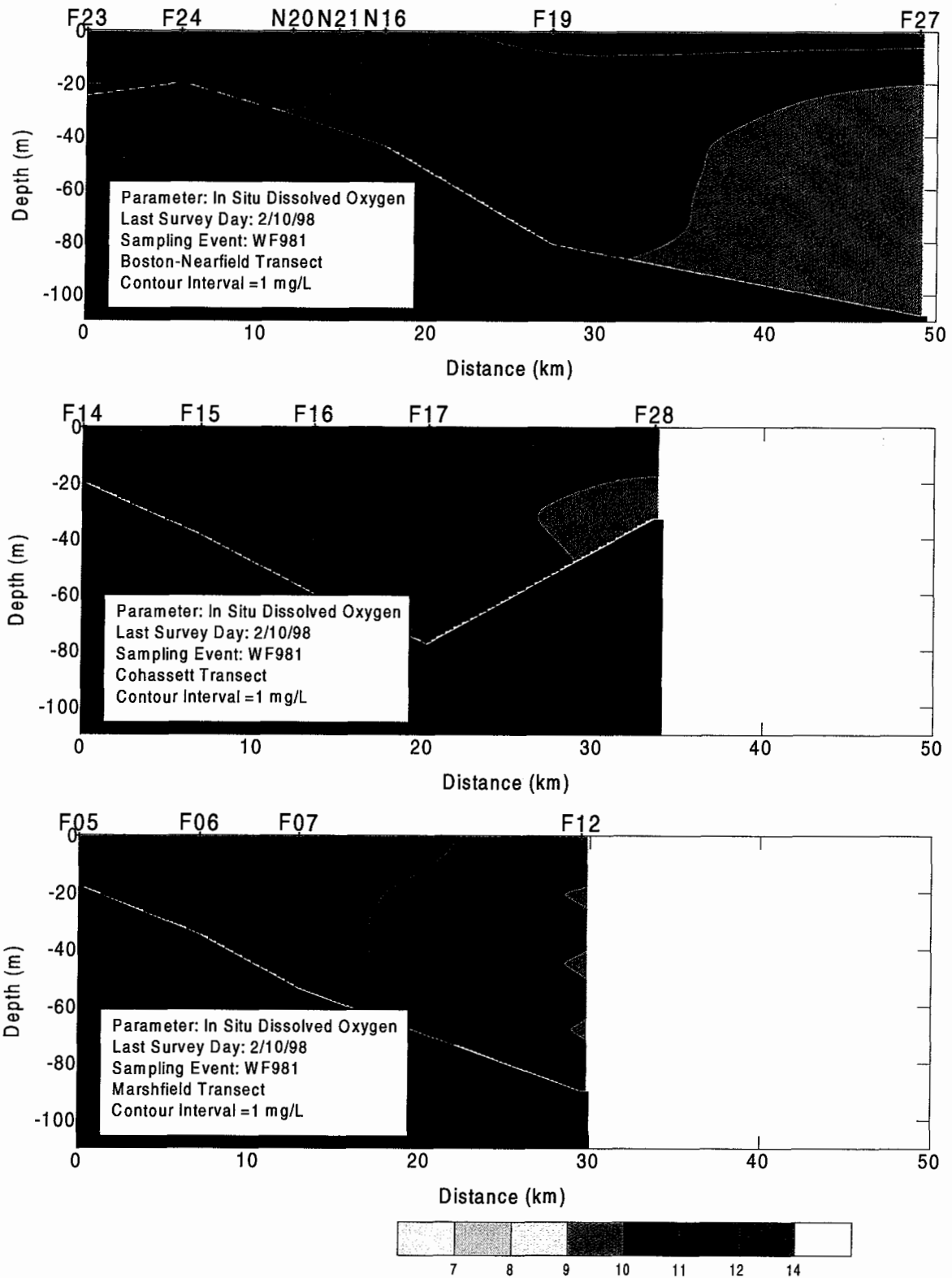


Figure C-56. Dissolved Oxygen Transect Plots (West - East) for Farfield Survey WF981 (Feb 98)

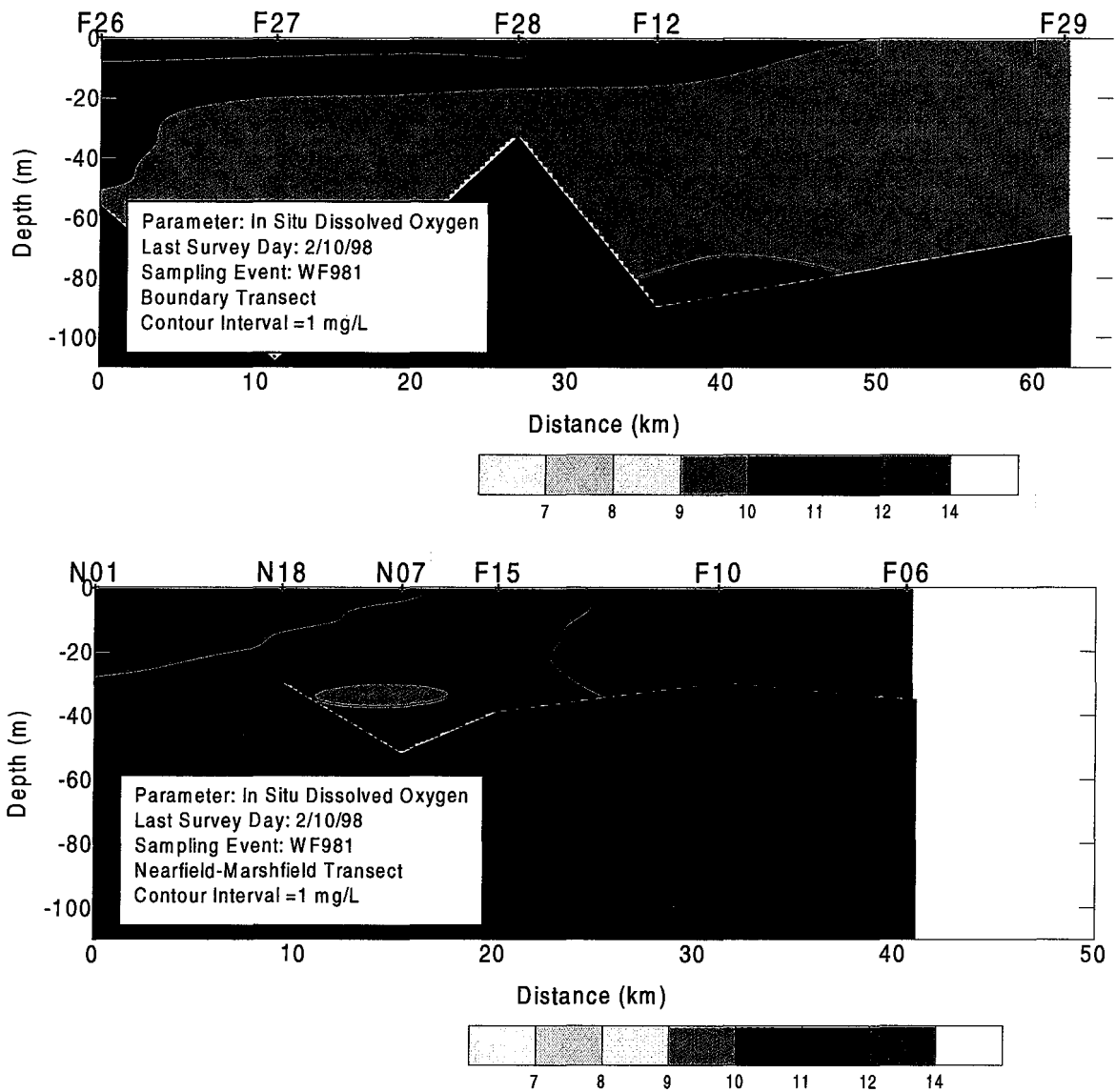


Figure C-57. Dissolved Oxygen Transect Plots (North - South) for Farfield Survey WF981 (Feb 98)

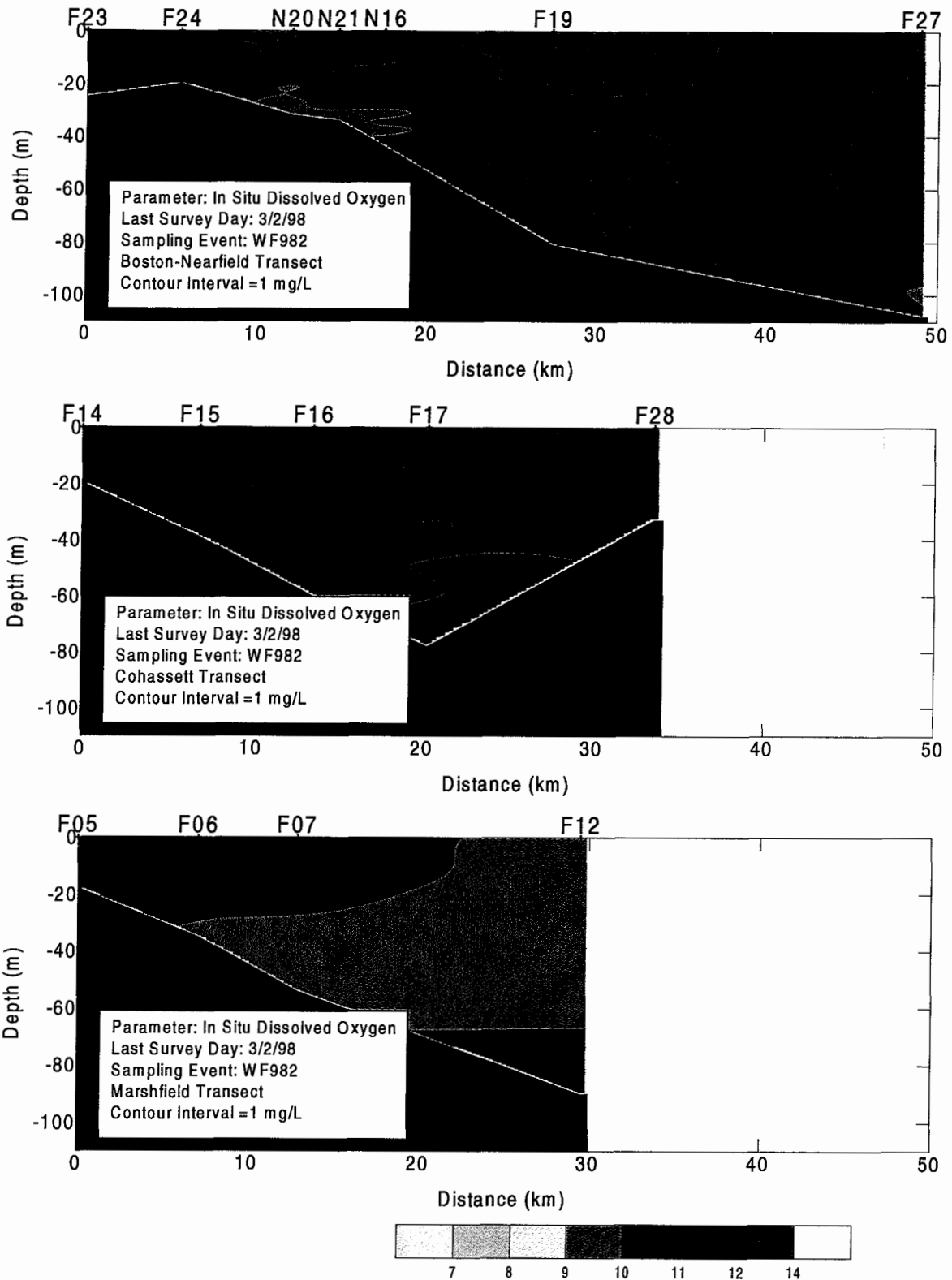


Figure C-58. Dissolved Oxygen Transect Plots (West - East) for Farfield Survey WF982 (Feb 98)

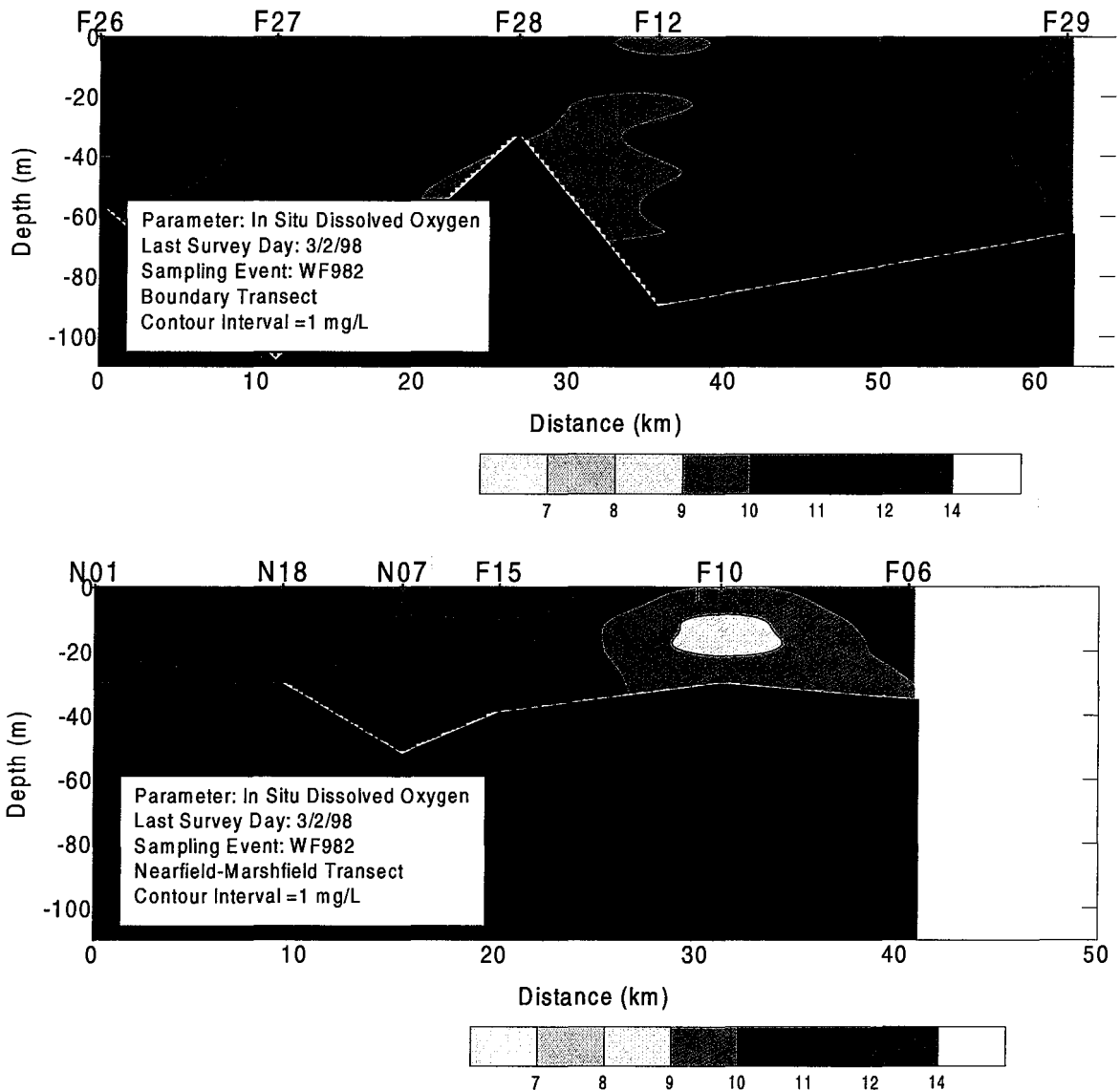


Figure C-59. Dissolved Oxygen Transect Plots (North - South) for Farfield Survey WF982 (Feb 98)

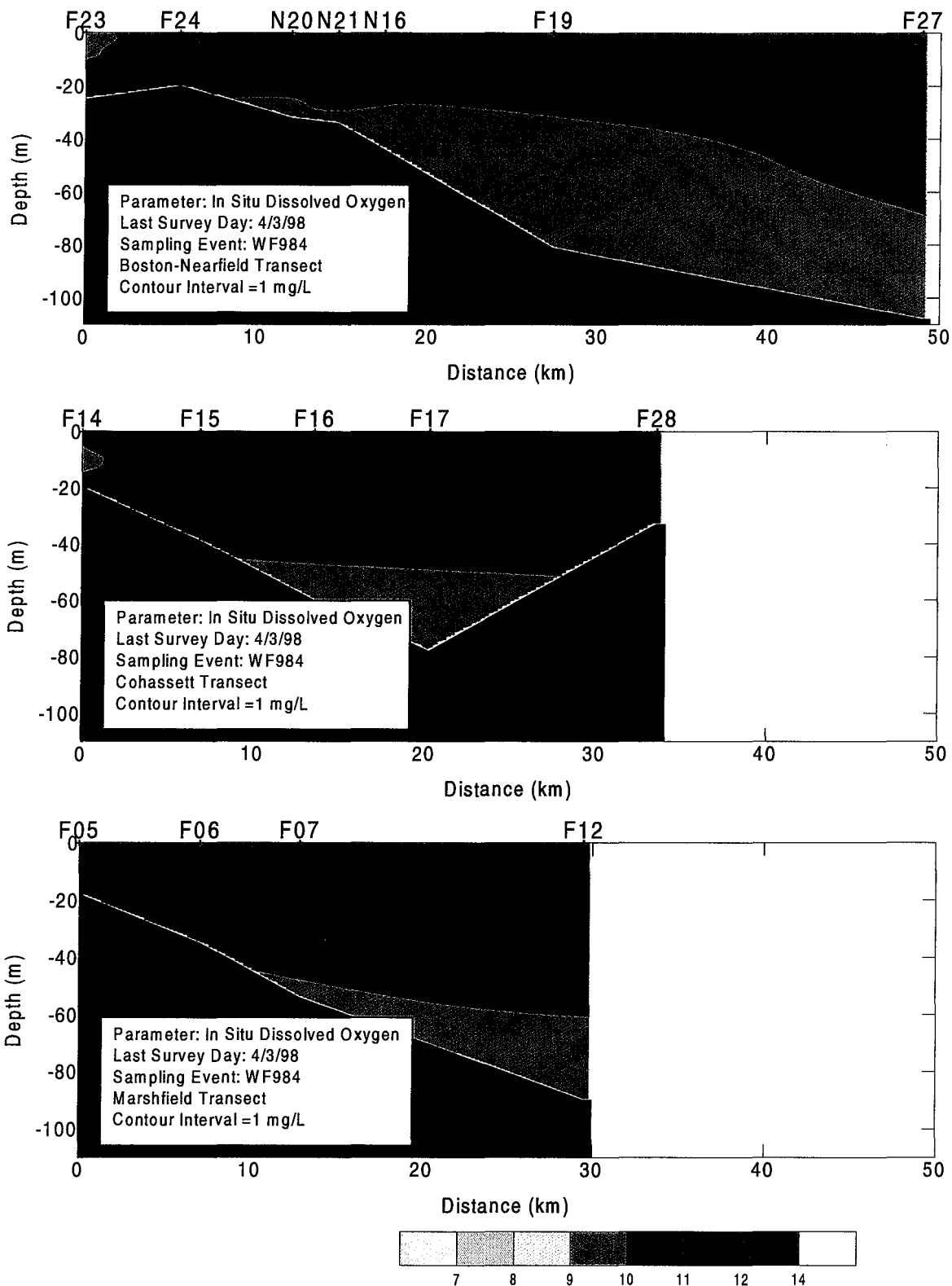


Figure C-60. Dissolved Oxygen Transect Plots (West - East) for Farfield Survey WF984 (Apr 98)

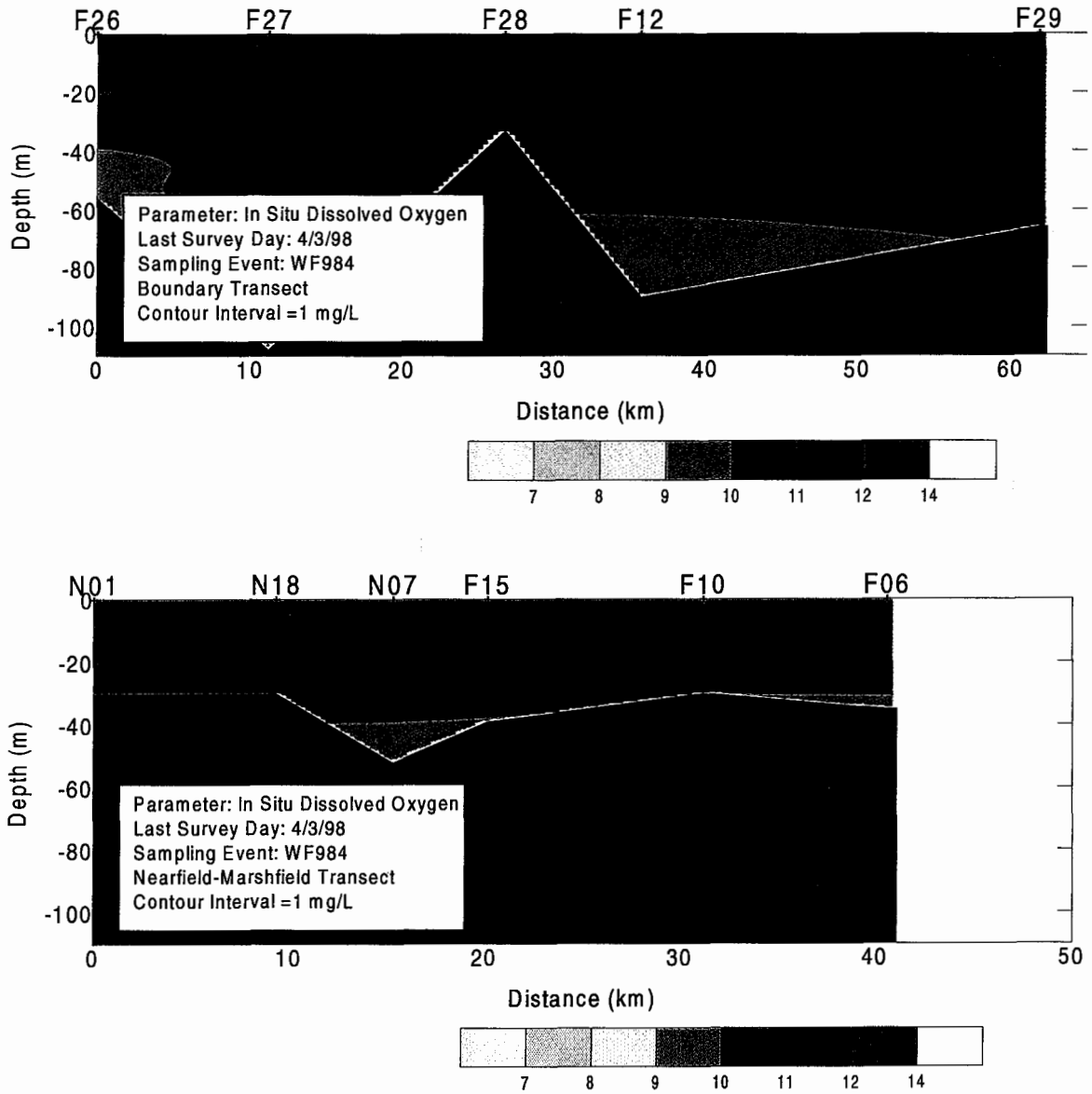


Figure C-61. Dissolved Oxygen Transect Plots (North - South) for Farfield Survey WF984 (Apr 98)

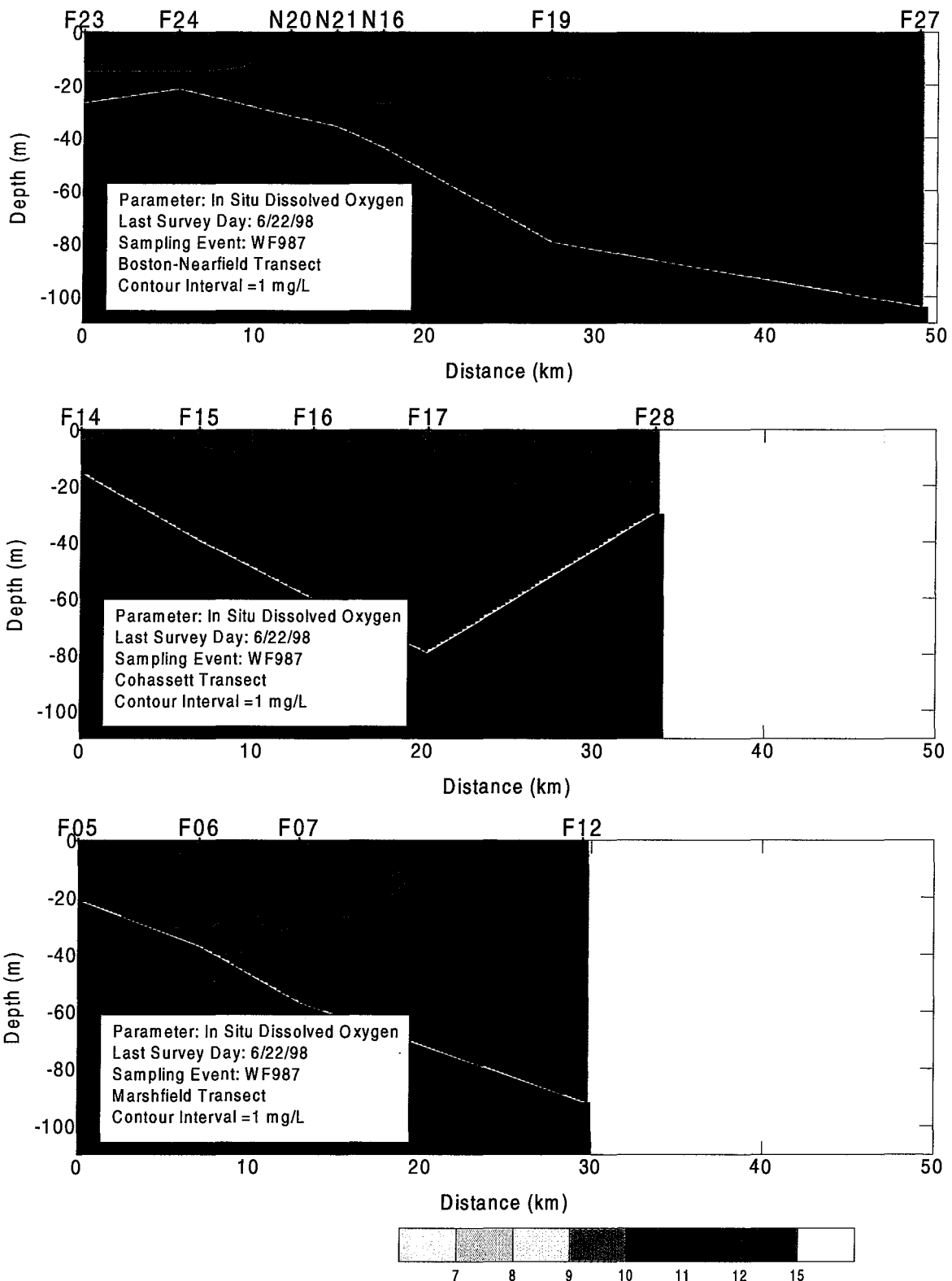


Figure C-62. Dissolved Oxygen Transect Plots (West - East) for Farfield Survey WF987 (Jun 98)

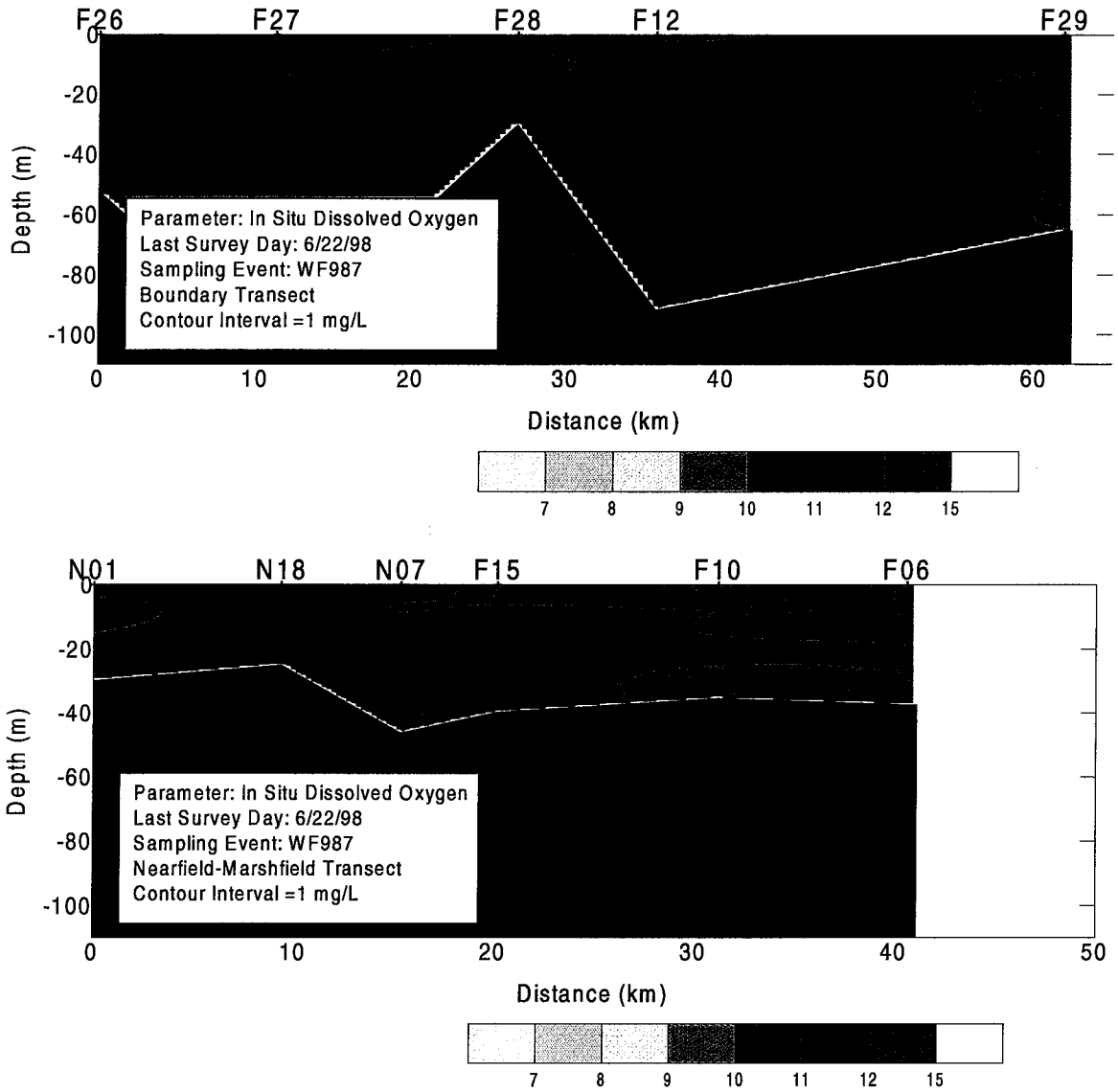


Figure C-63. Dissolved Oxygen Transect Plots (North - South) for Farfield Survey WF987 (Jun 98)

APPENDIX D

Nutrient Scatter Plots for each Survey

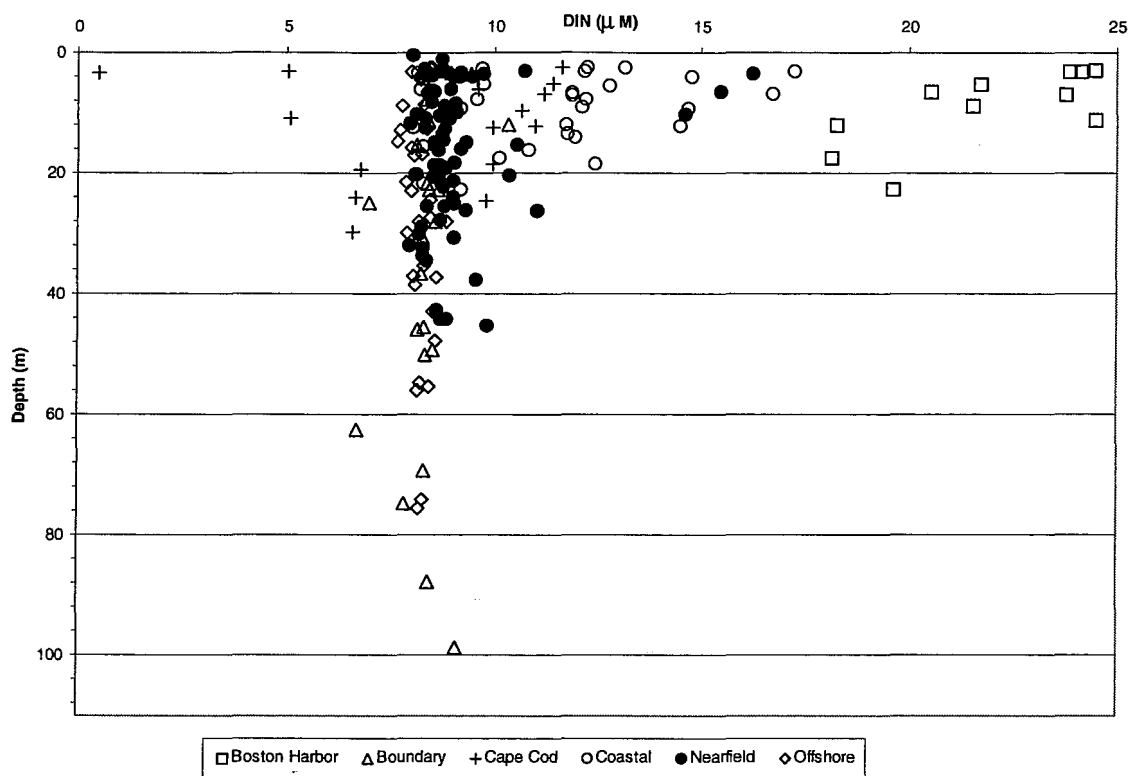


Figure D-1. Depth vs. Nutrient Plots for Farfield Survey WF981, (Feb 98)

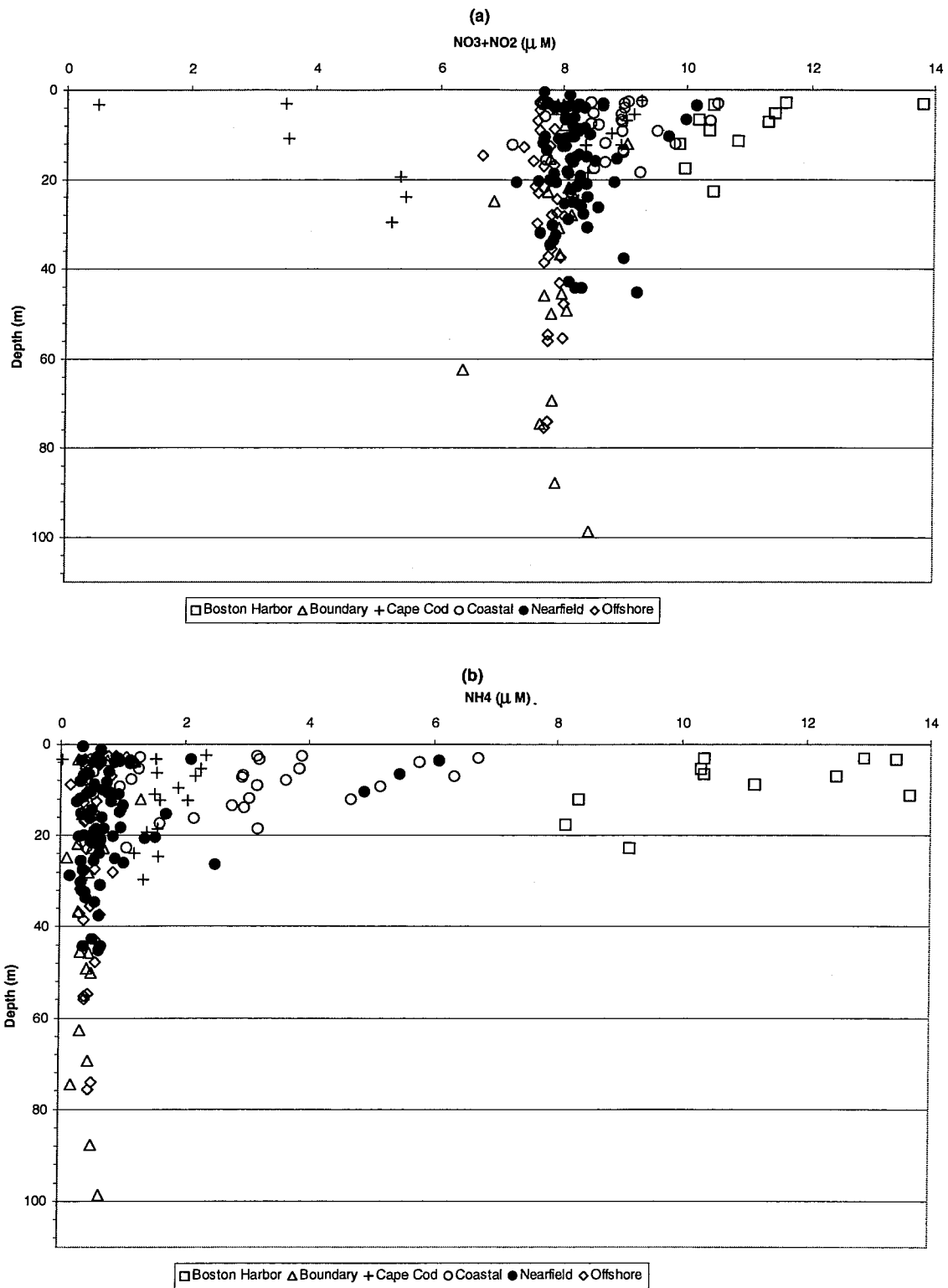


Figure D-2. Depth vs. Nutrient Plots for Farfield Survey WF981, (Feb 98)

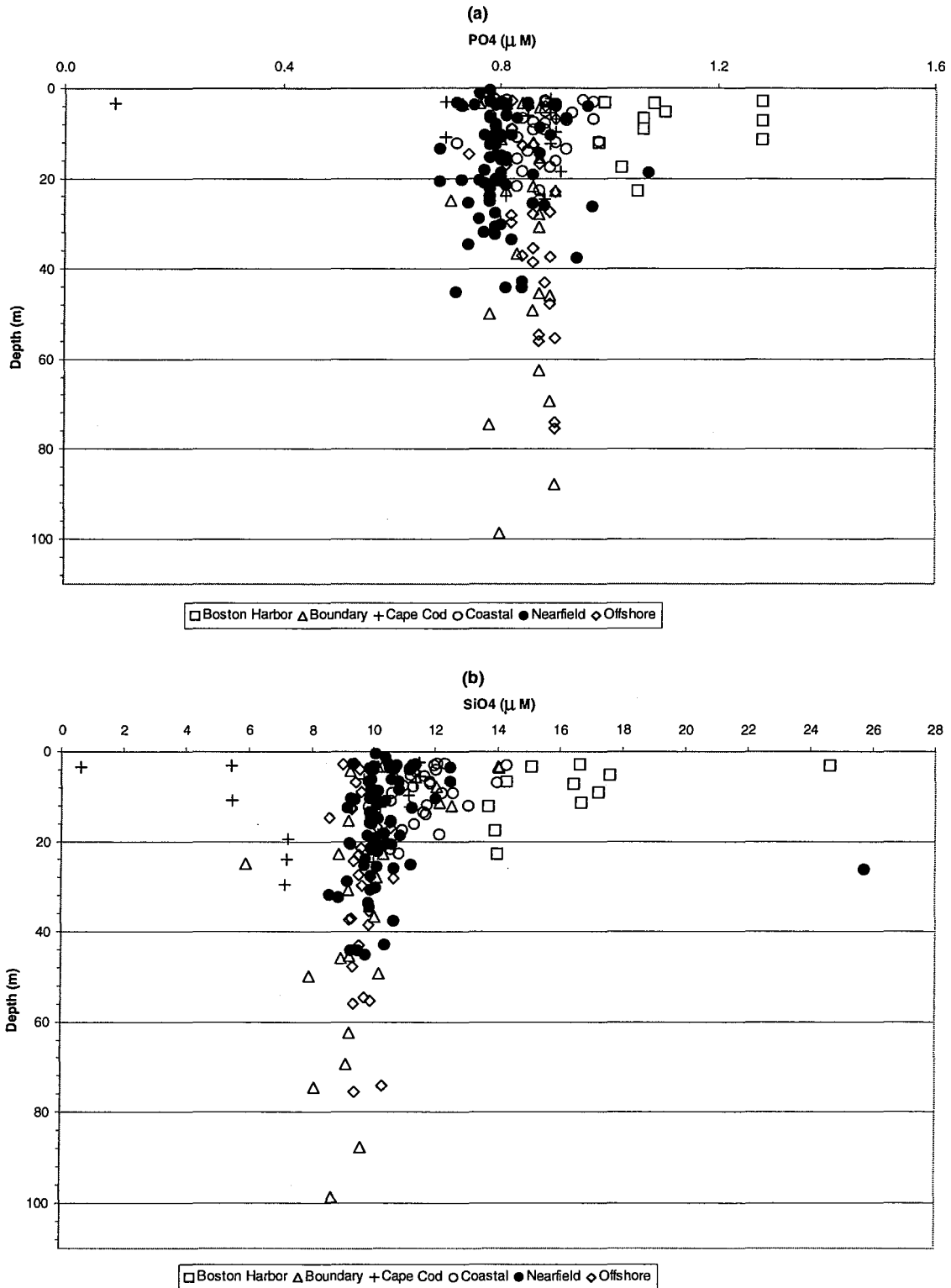


Figure D-3. Depth vs. Nutrient Plots for Farfield Survey WF981, (Feb 98)

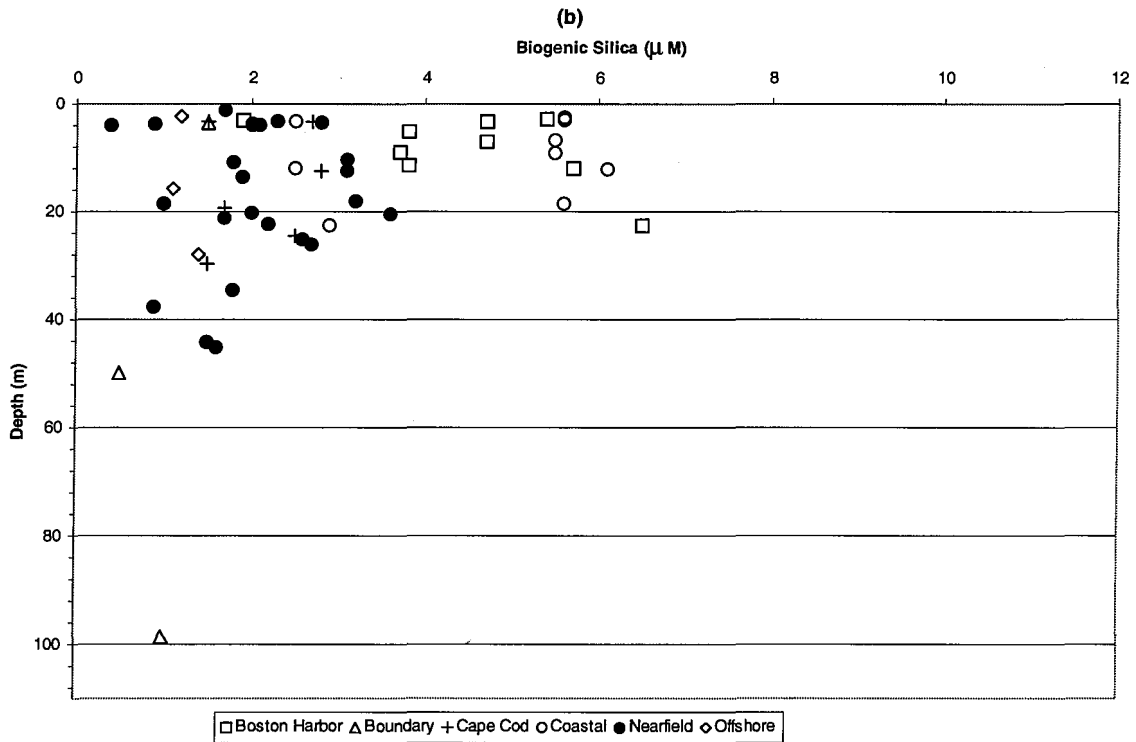
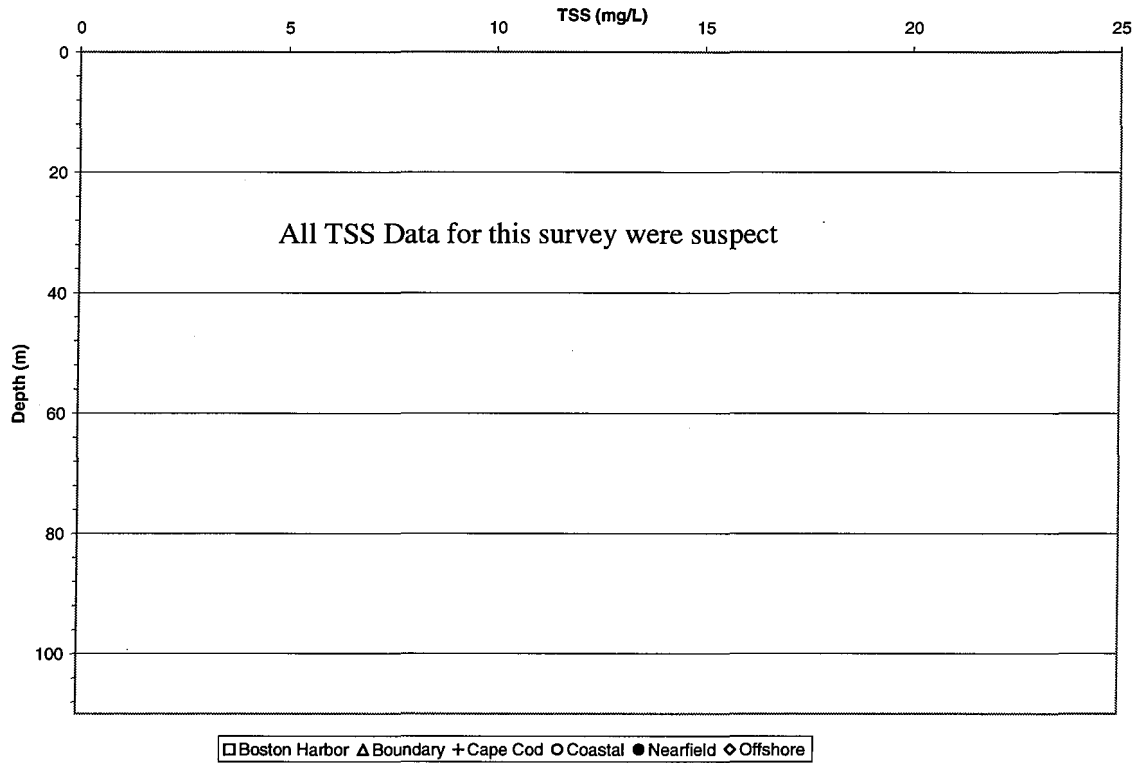


Figure D-4. Depth vs. Nutrient Plots for Farfield Survey WF981, (Feb 98)

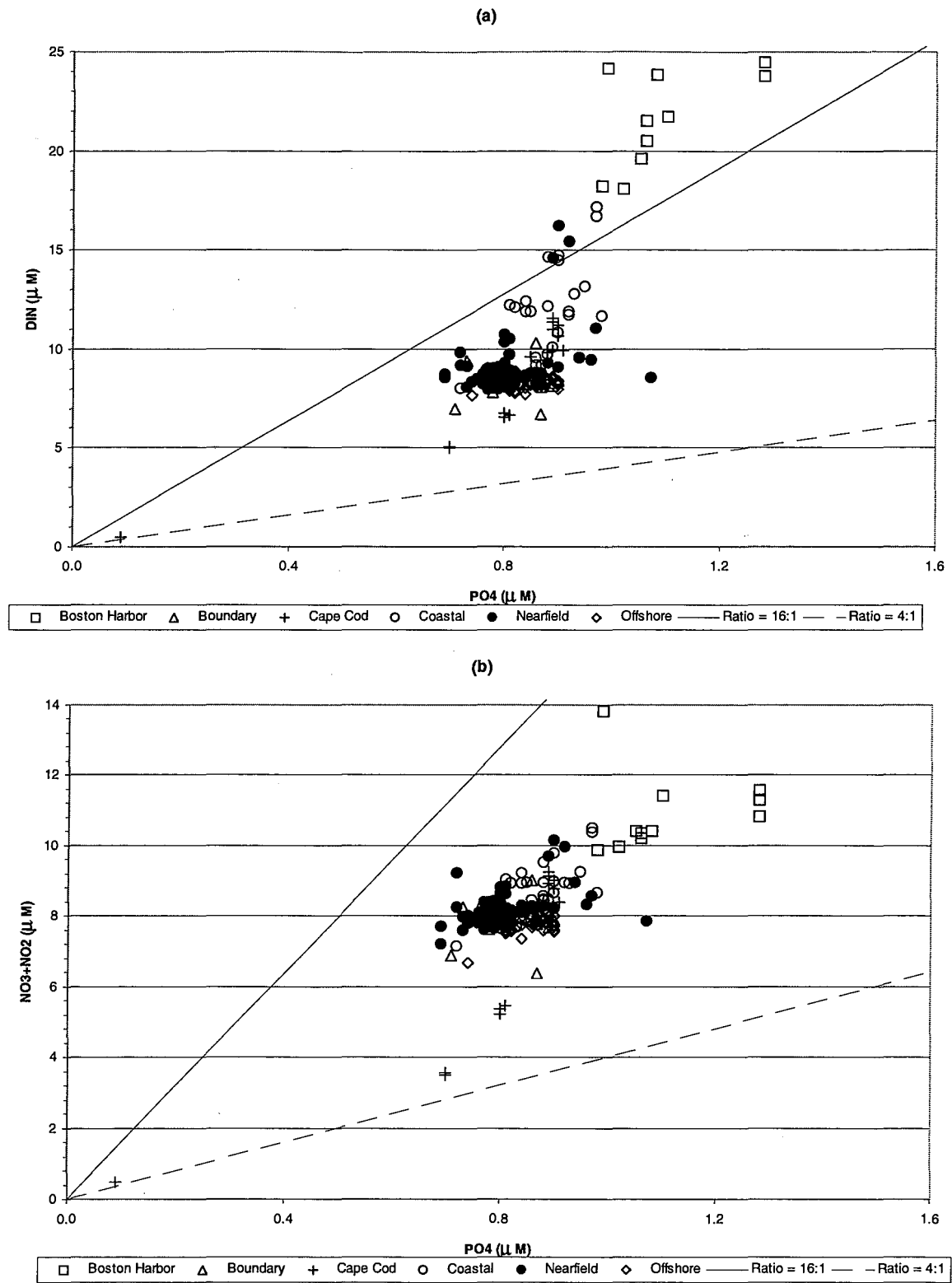


Figure D-5. Nutrient vs. Nutrient Plots for Farfield Survey WF981, (Feb 98)

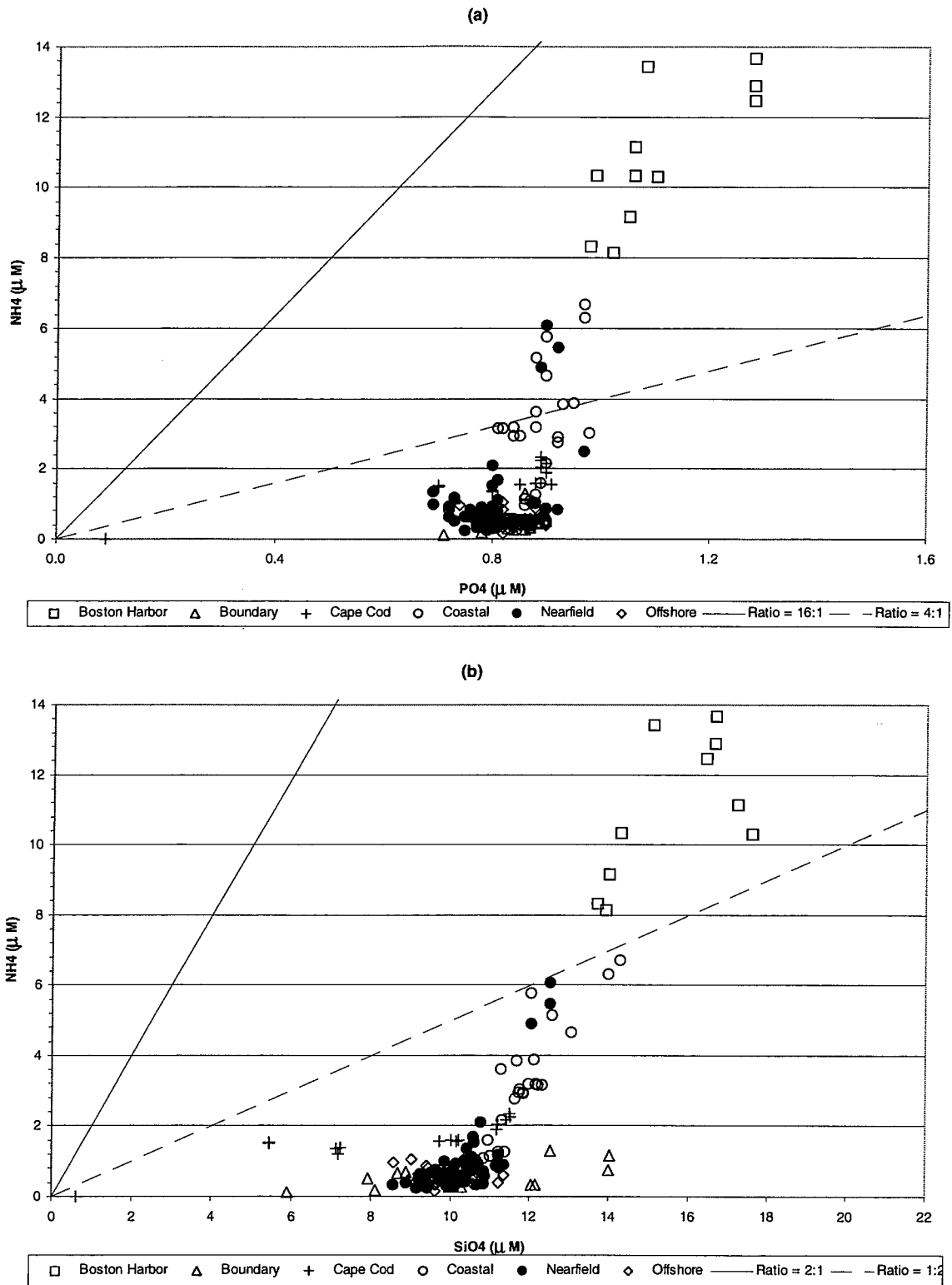


Figure D-6. Nutrient vs. Nutrient Plots for Farfield Survey WF981, (Feb 98)

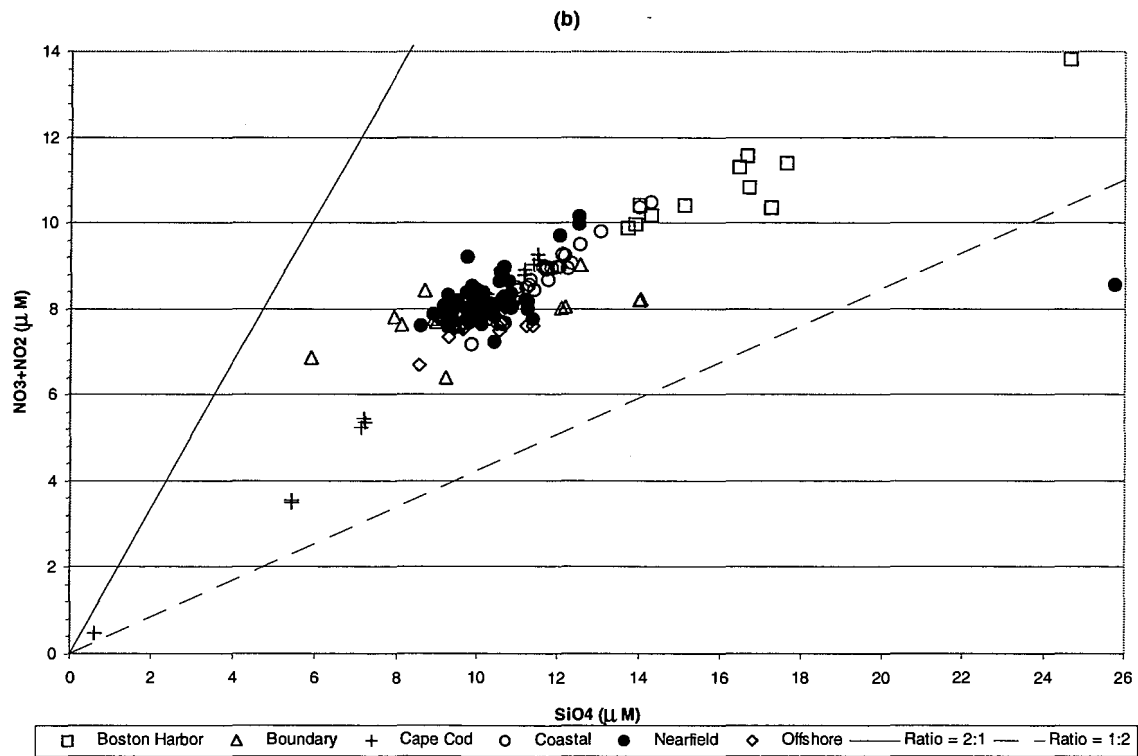
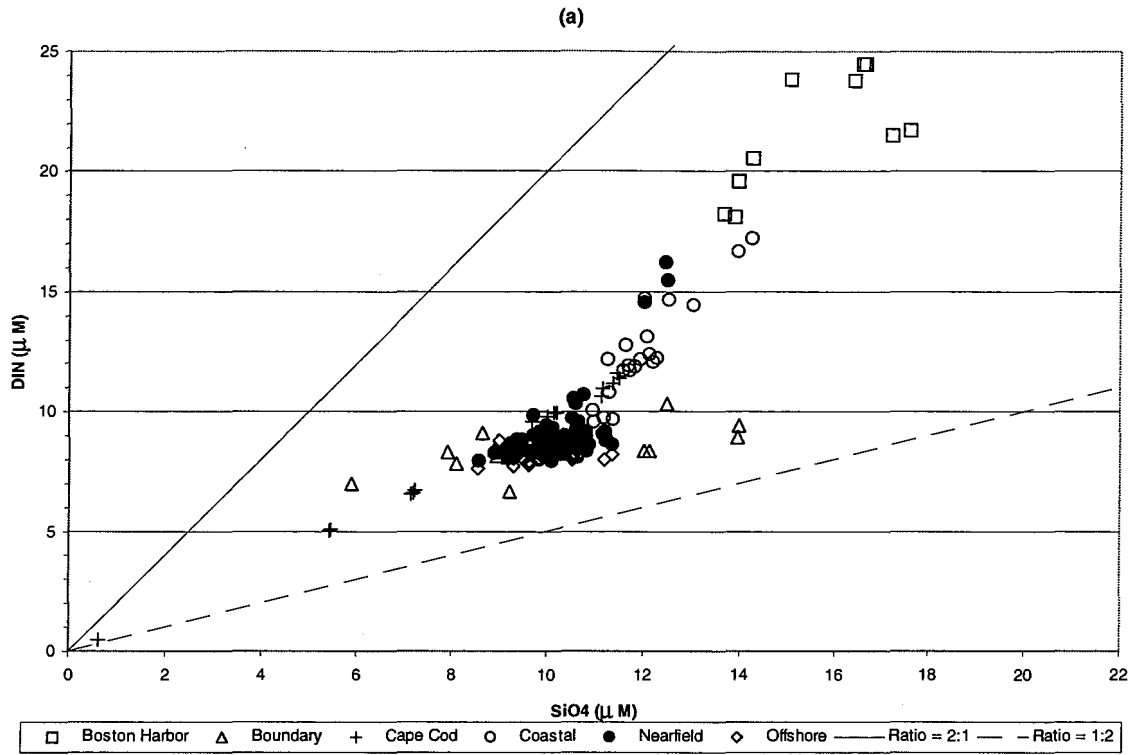


Figure D-7. Nutrient vs. Nutrient Plots for Farfield Survey WF981, (Feb 98)

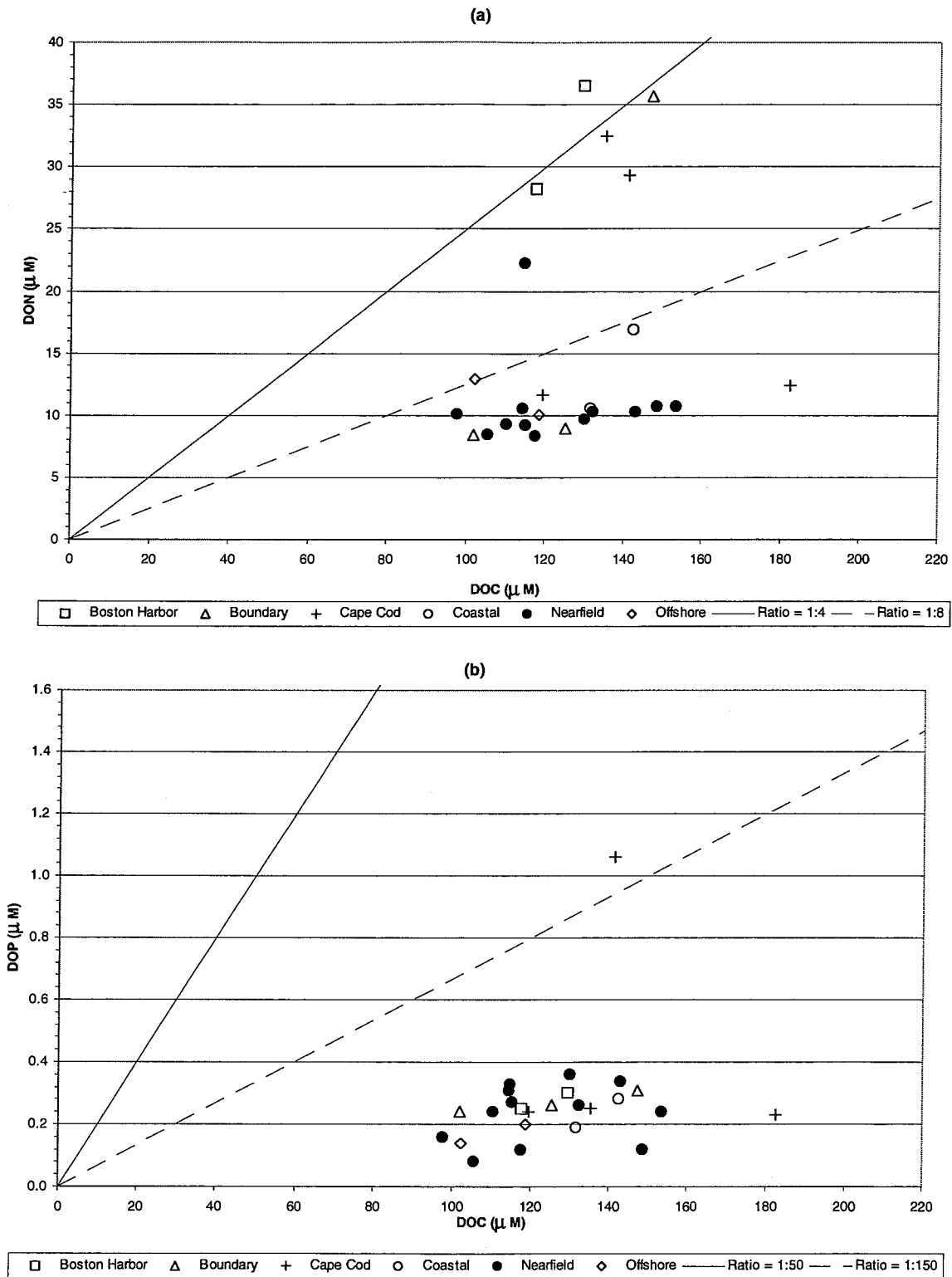


Figure D-8. Nutrient vs. Nutrient Plots for Farfield Survey WF981, (Feb 98)

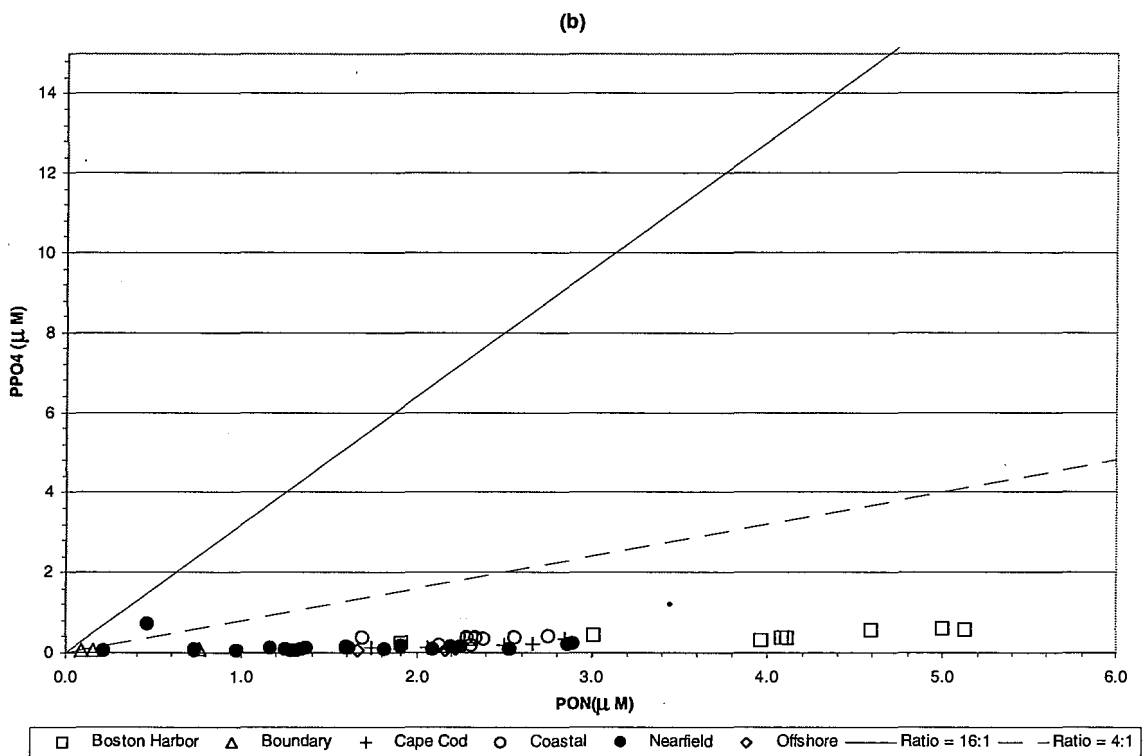
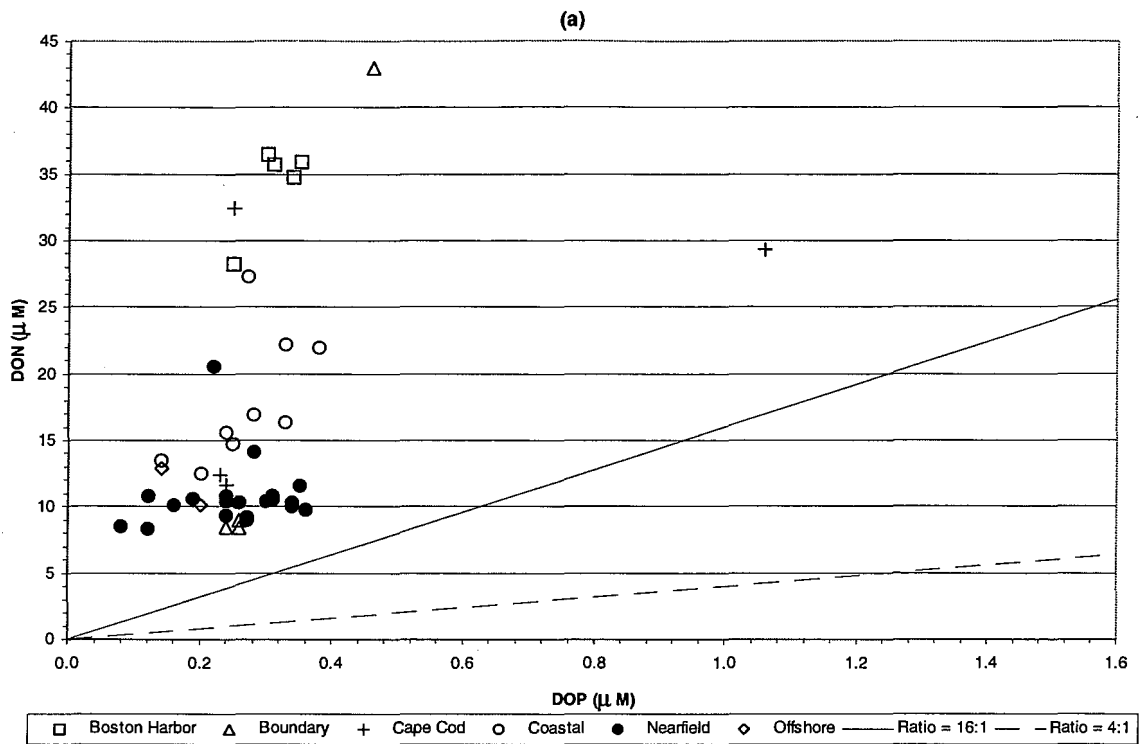


Figure D-9. Nutrient vs. Nutrient Plots for Farfield Survey WF981, (Feb 98)

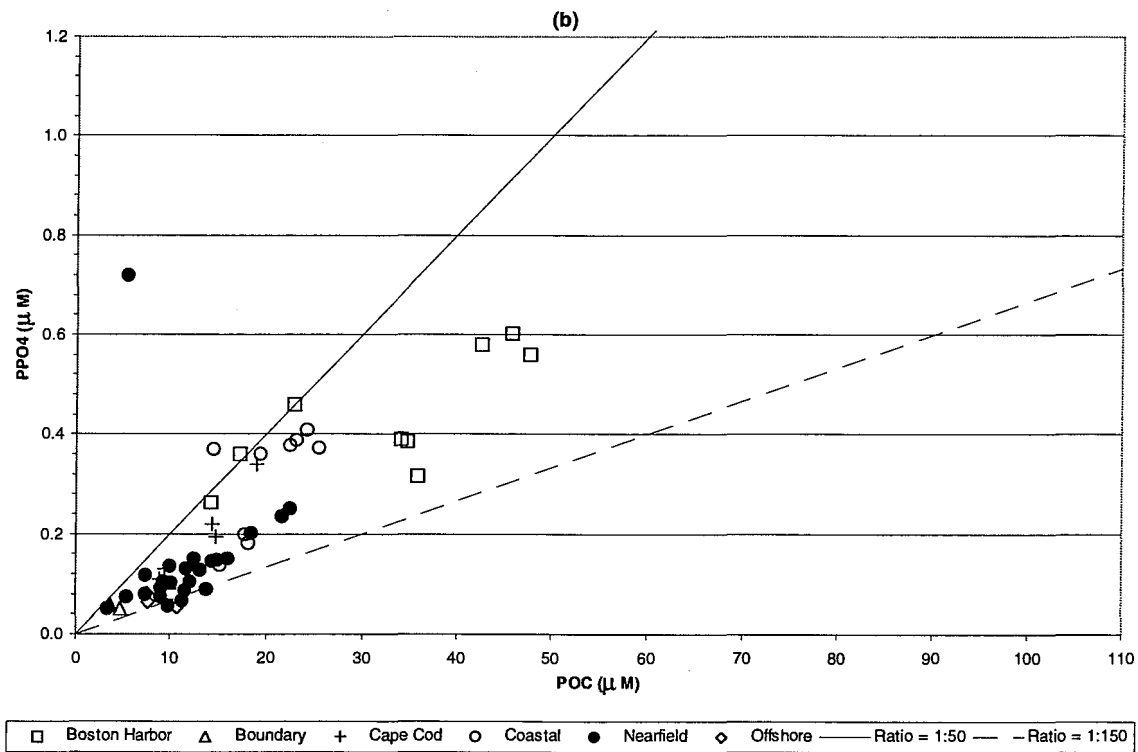
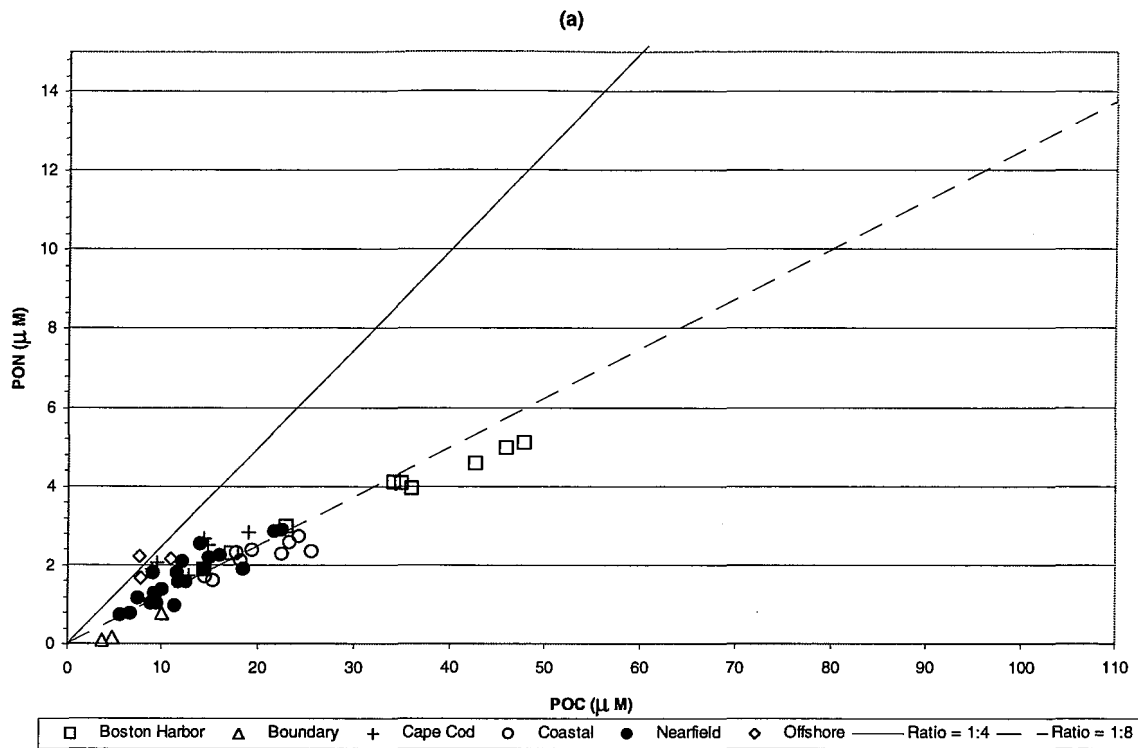


Figure D-10. Nutrient vs. Nutrient Plots for Farfield Survey WF981, (Feb 98)

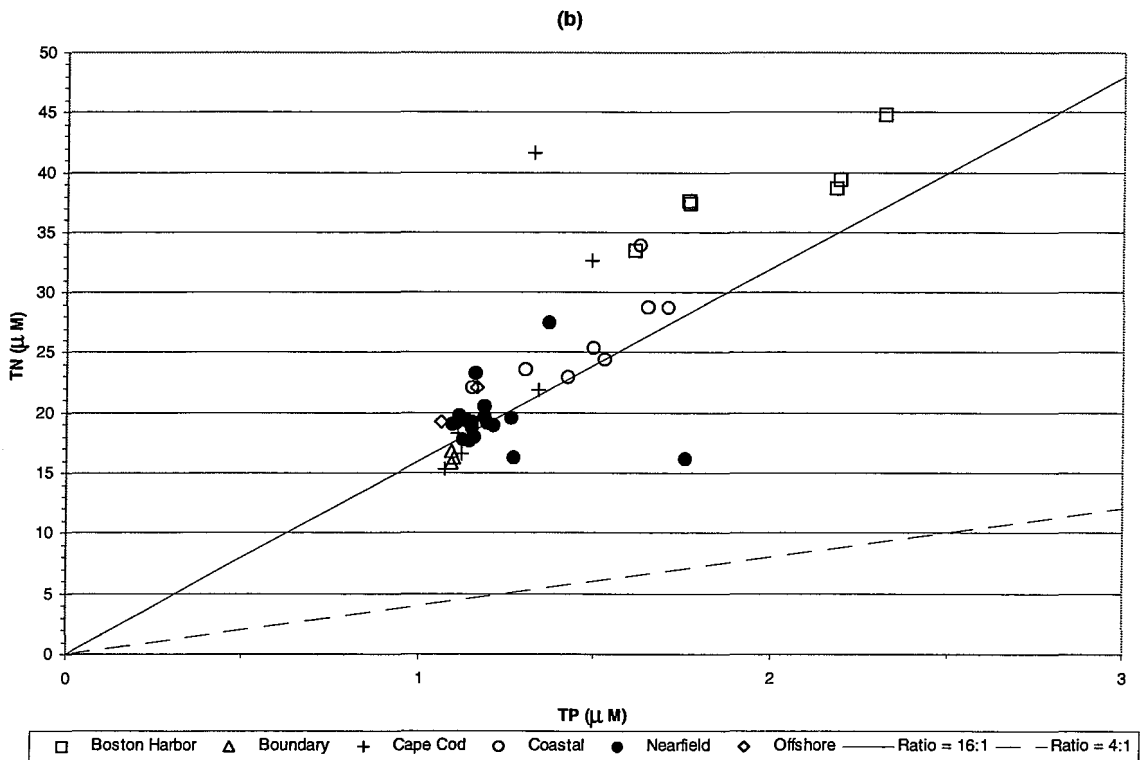
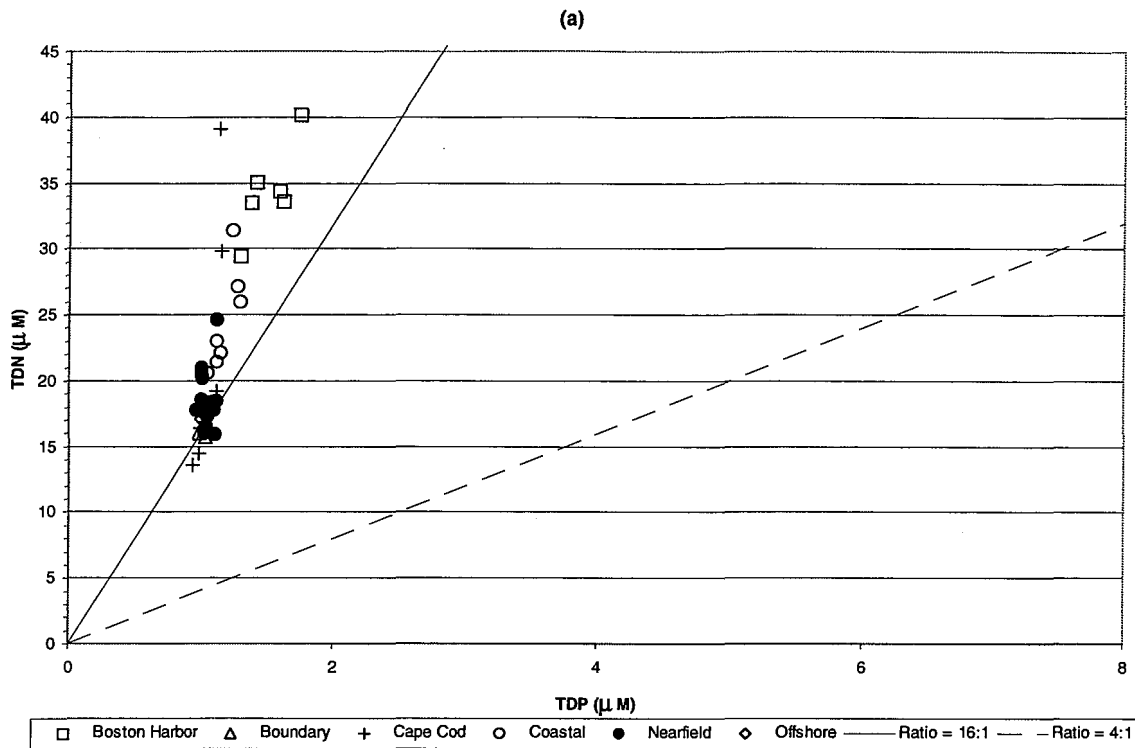


Figure D-11. Nutrient vs. Nutrient Plots for Farfield Survey WF981, (Feb 98)

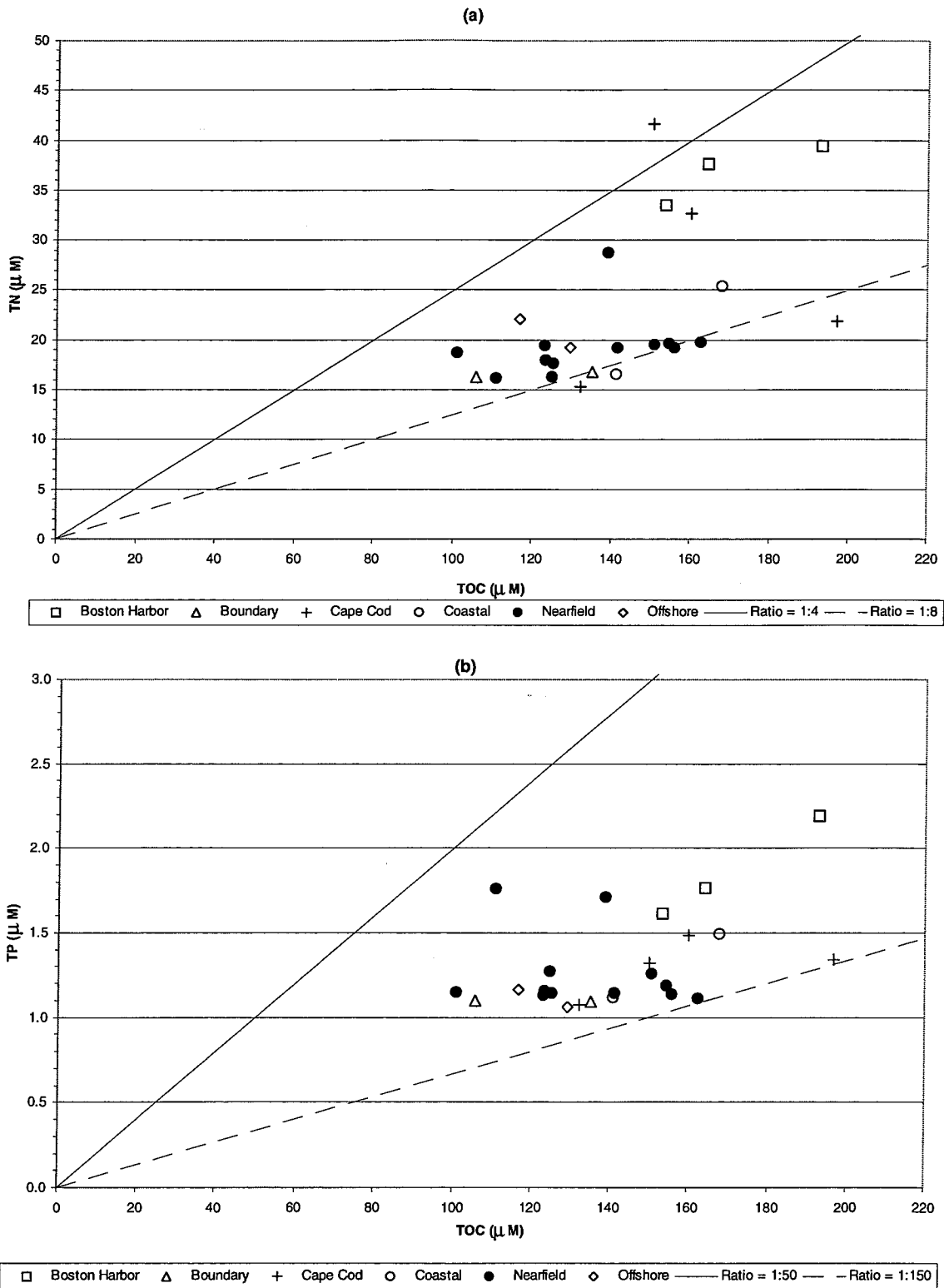


Figure D-12. Nutrient vs. Nutrient Plots for Farfield Survey WF981, (Feb 98)

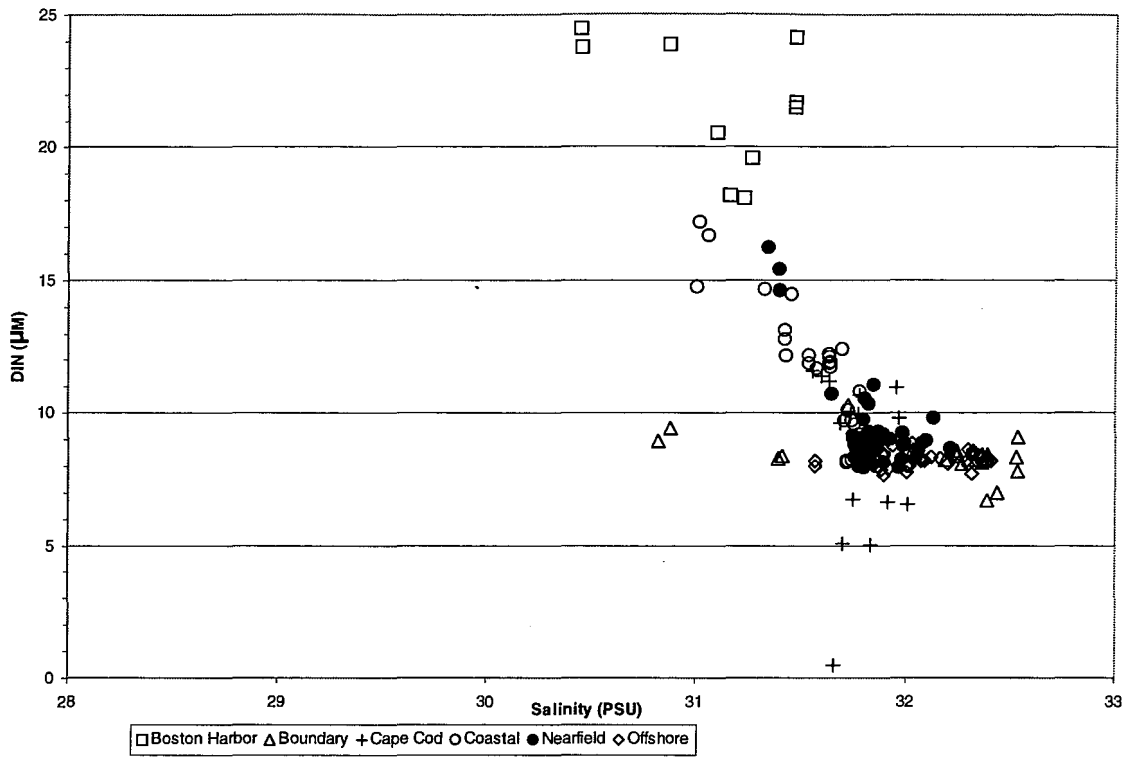


Figure D-13. Nutrient vs. Salinity Plots for Farfield Survey WF981, (Feb 98)

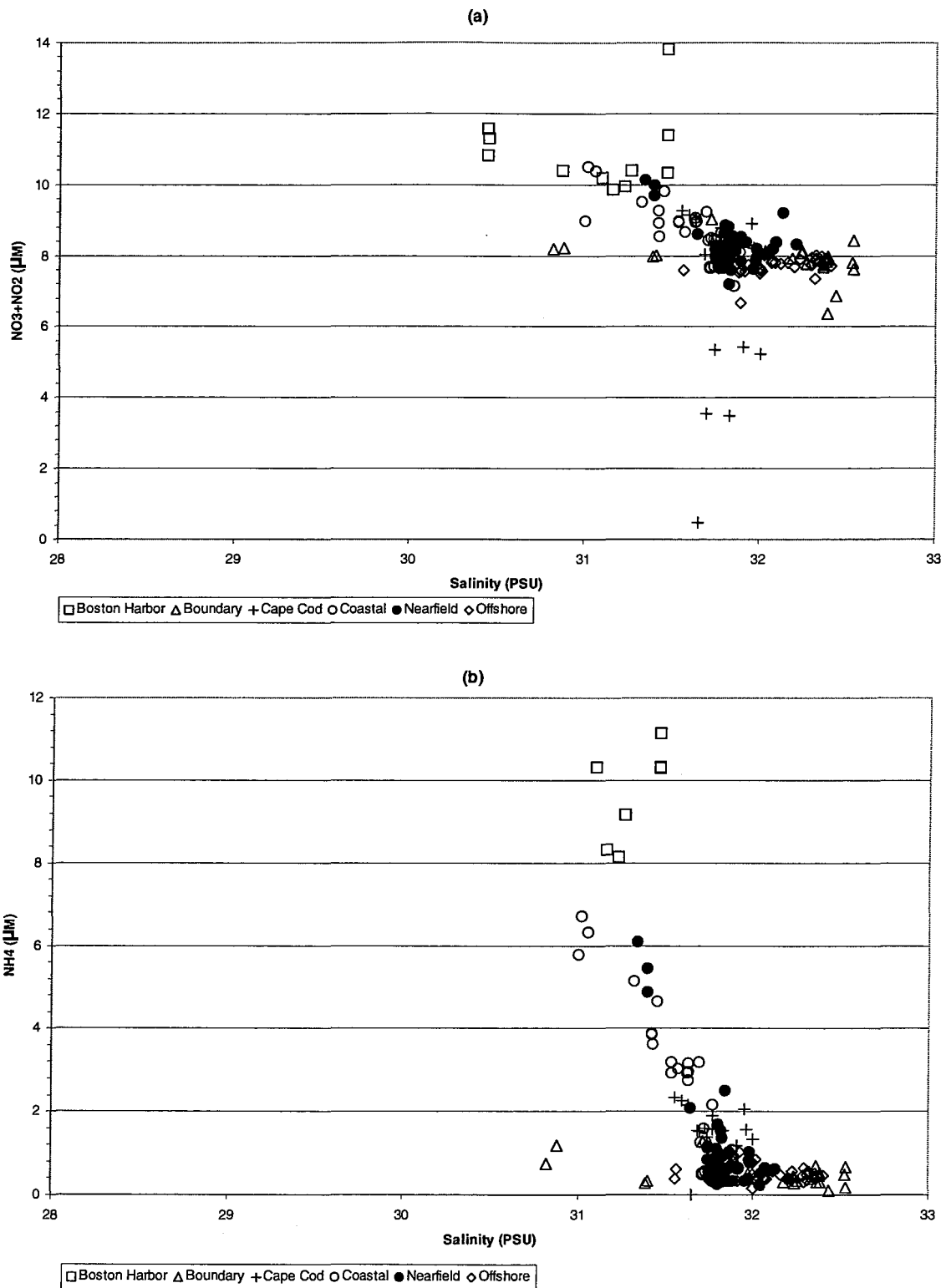


Figure D-14. Nutrient vs. Salinity Plots for Farfield Survey WF981, (Feb 98)

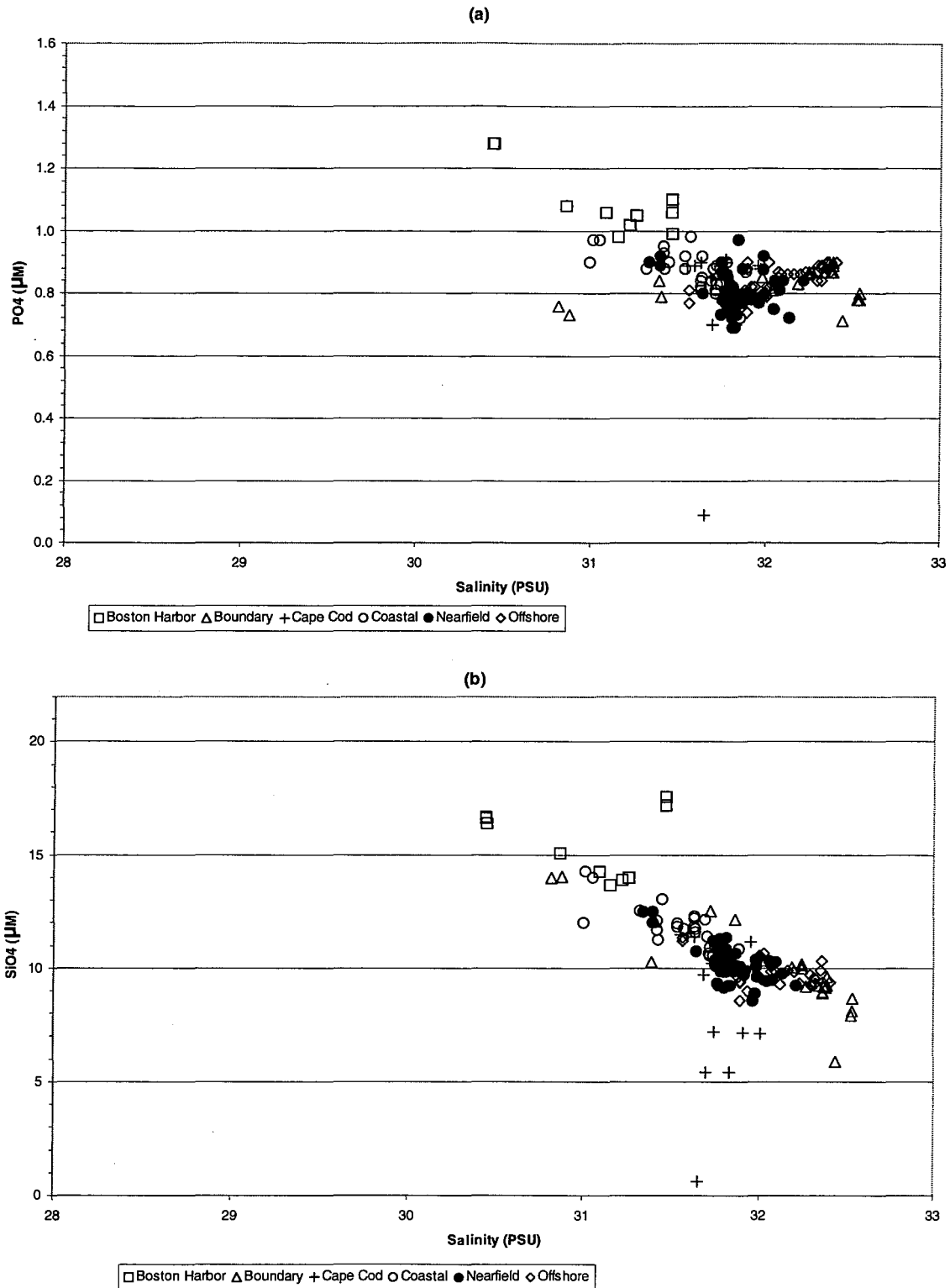


Figure D-15. Nutrient vs. Salinity Plots for Farfield Survey WF981, (Feb 98)

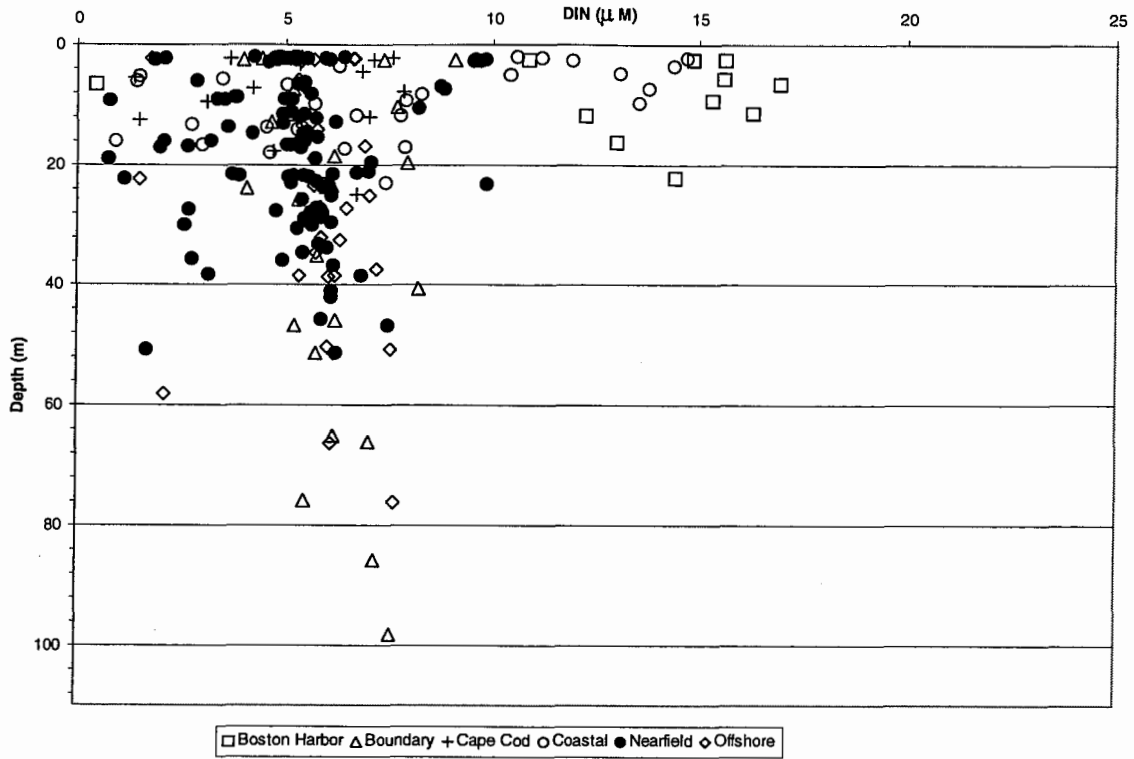


Figure D-16. Depth vs. Nutrient Plots for Farfield Survey WF982, (Feb 98)

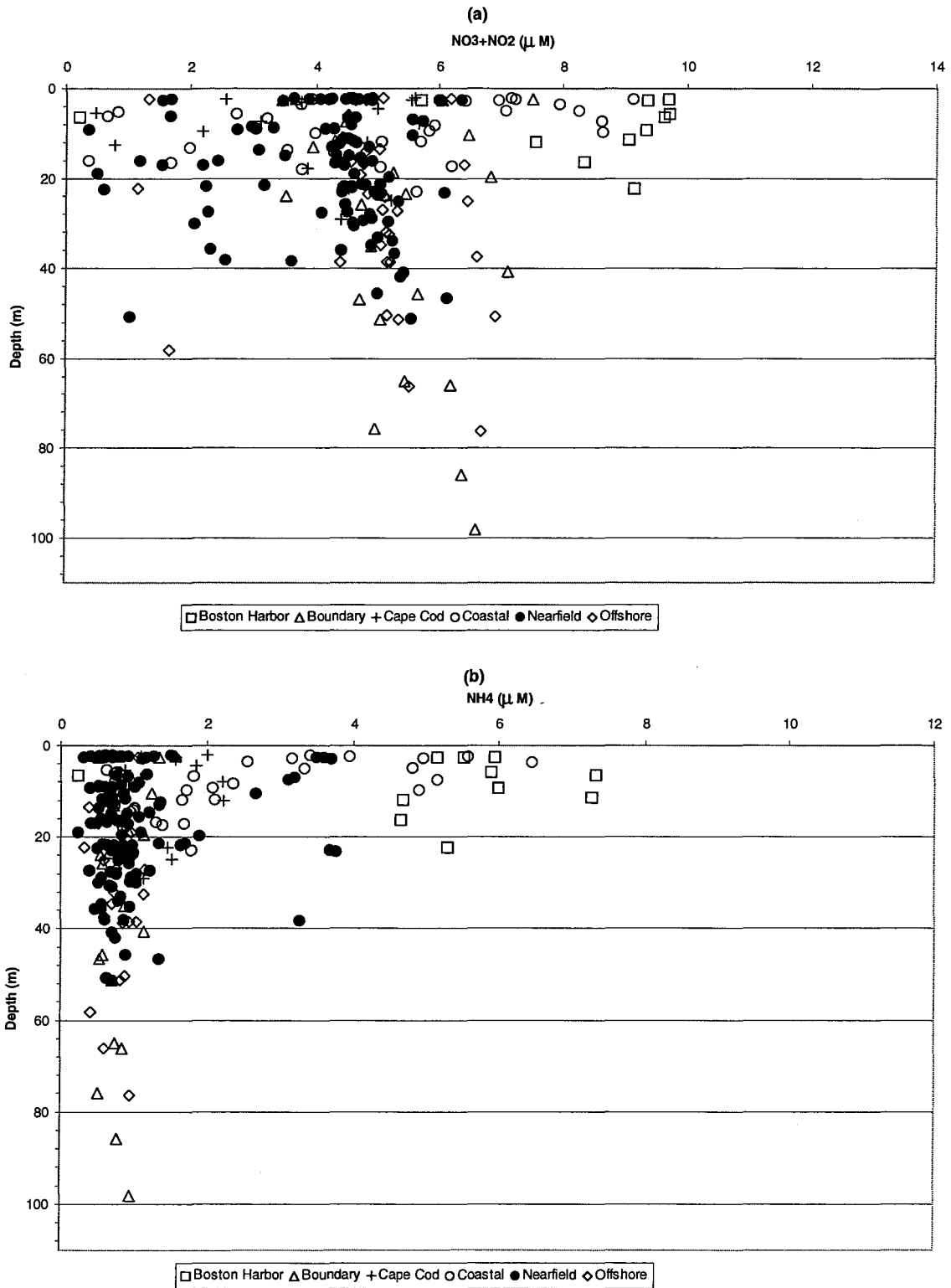


Figure D-17. Depth vs. Nutrient Plots for Farfield Survey WF982, (Feb 98)

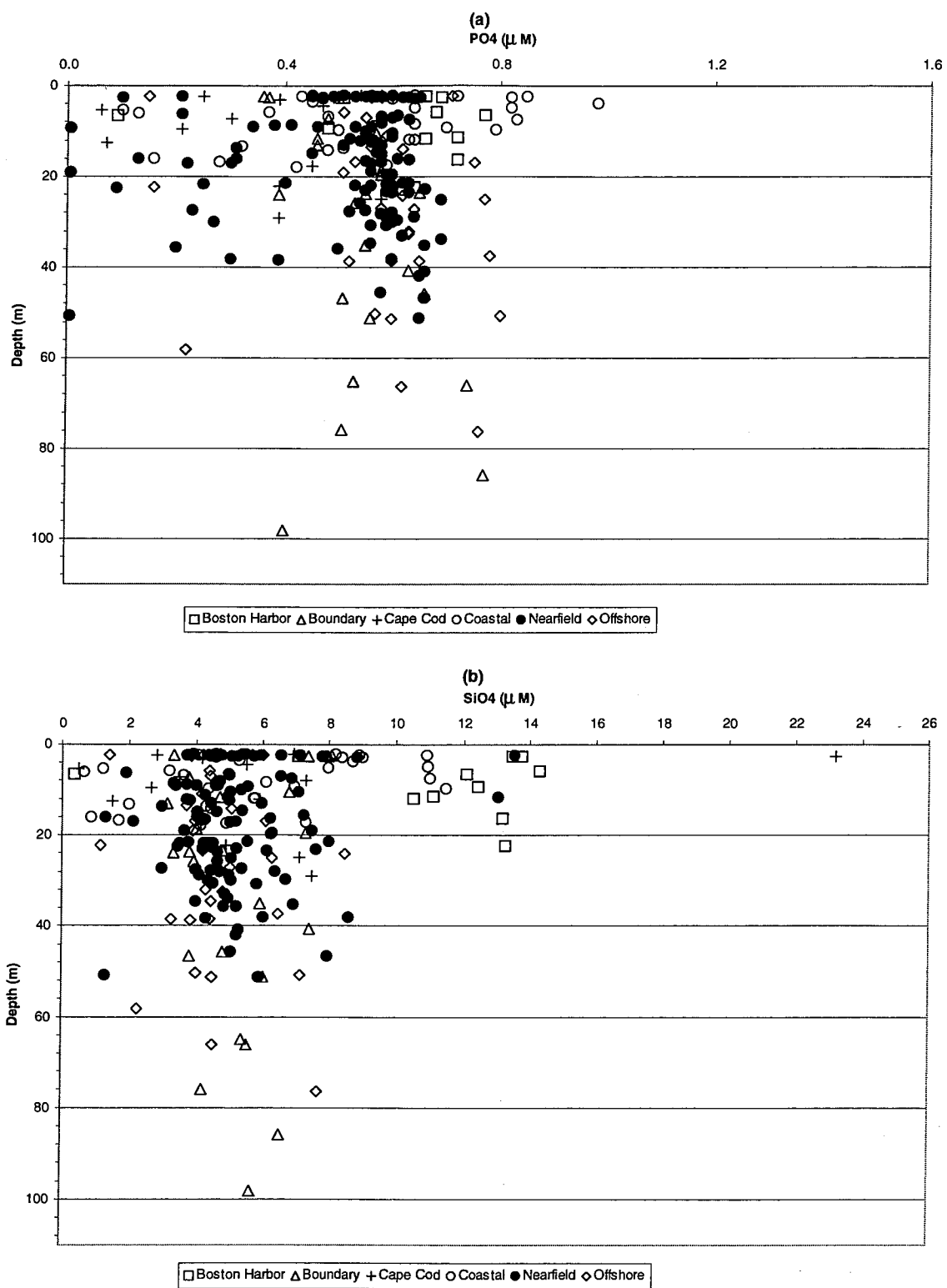


Figure D-18. Depth vs. Nutrient Plots for Farfield Survey WF982, (Feb 98)

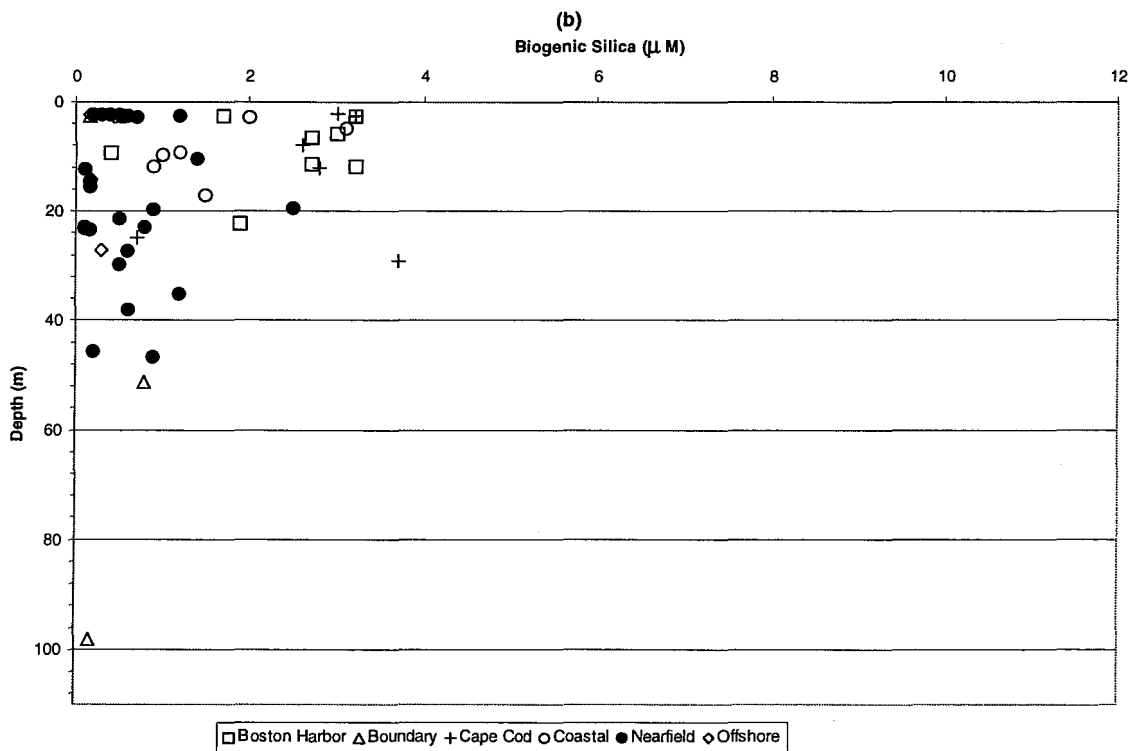
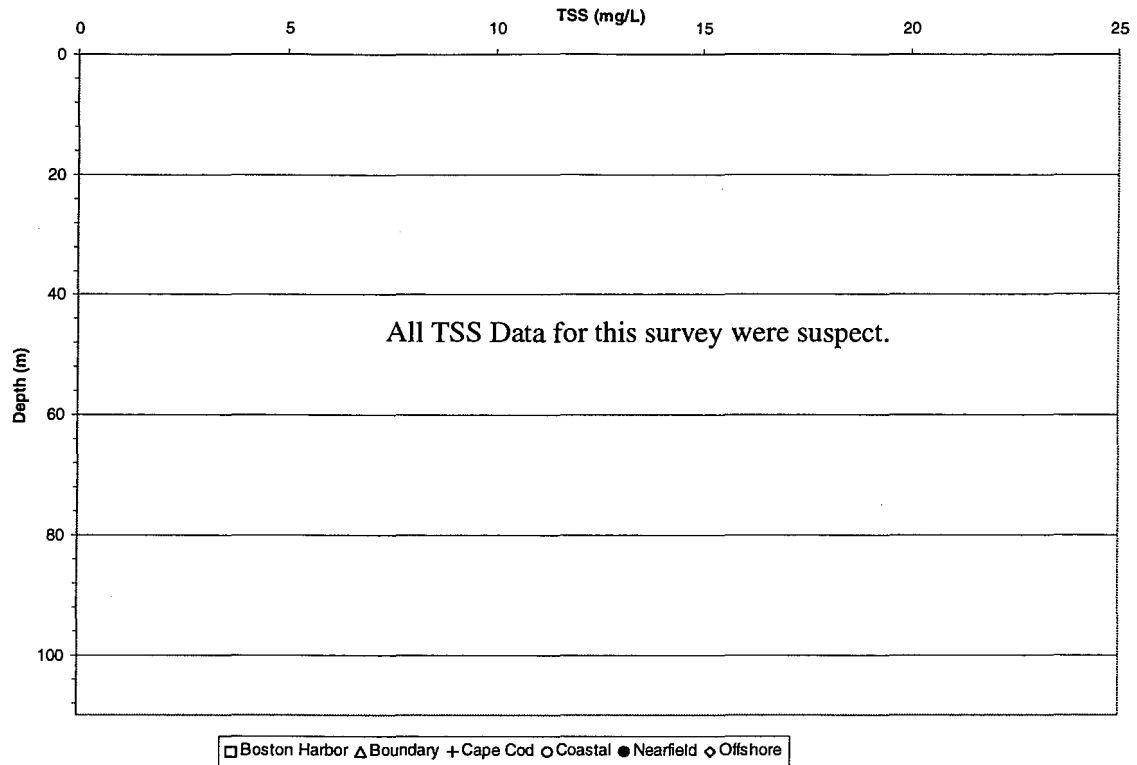


Figure D-19. Depth vs. Nutrient Plots for Farfield Survey WF982, (Feb 98)

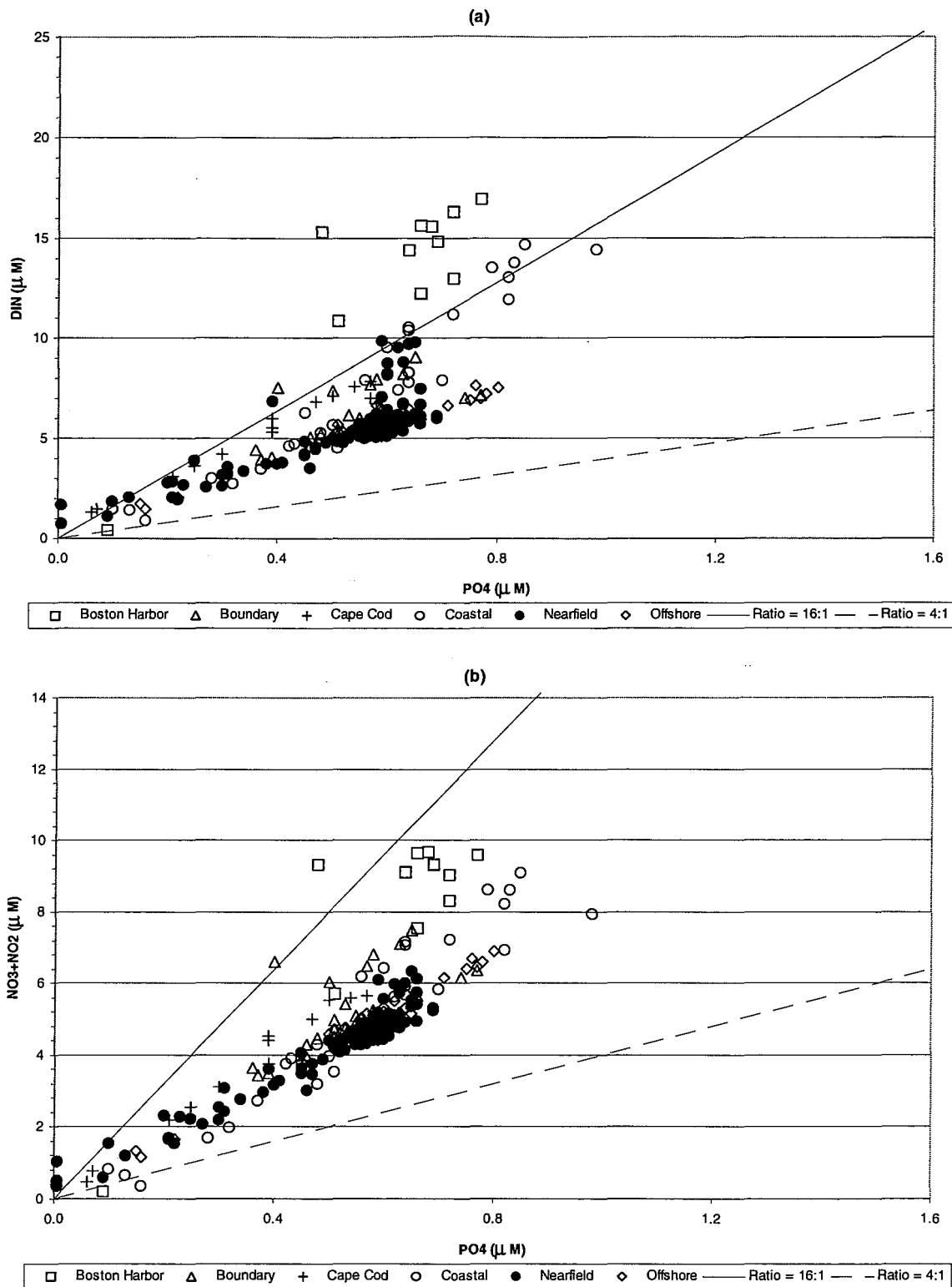


Figure D-20. Nutrient vs. Nutrient Plots for Farfield Survey WF982, (Feb 98)

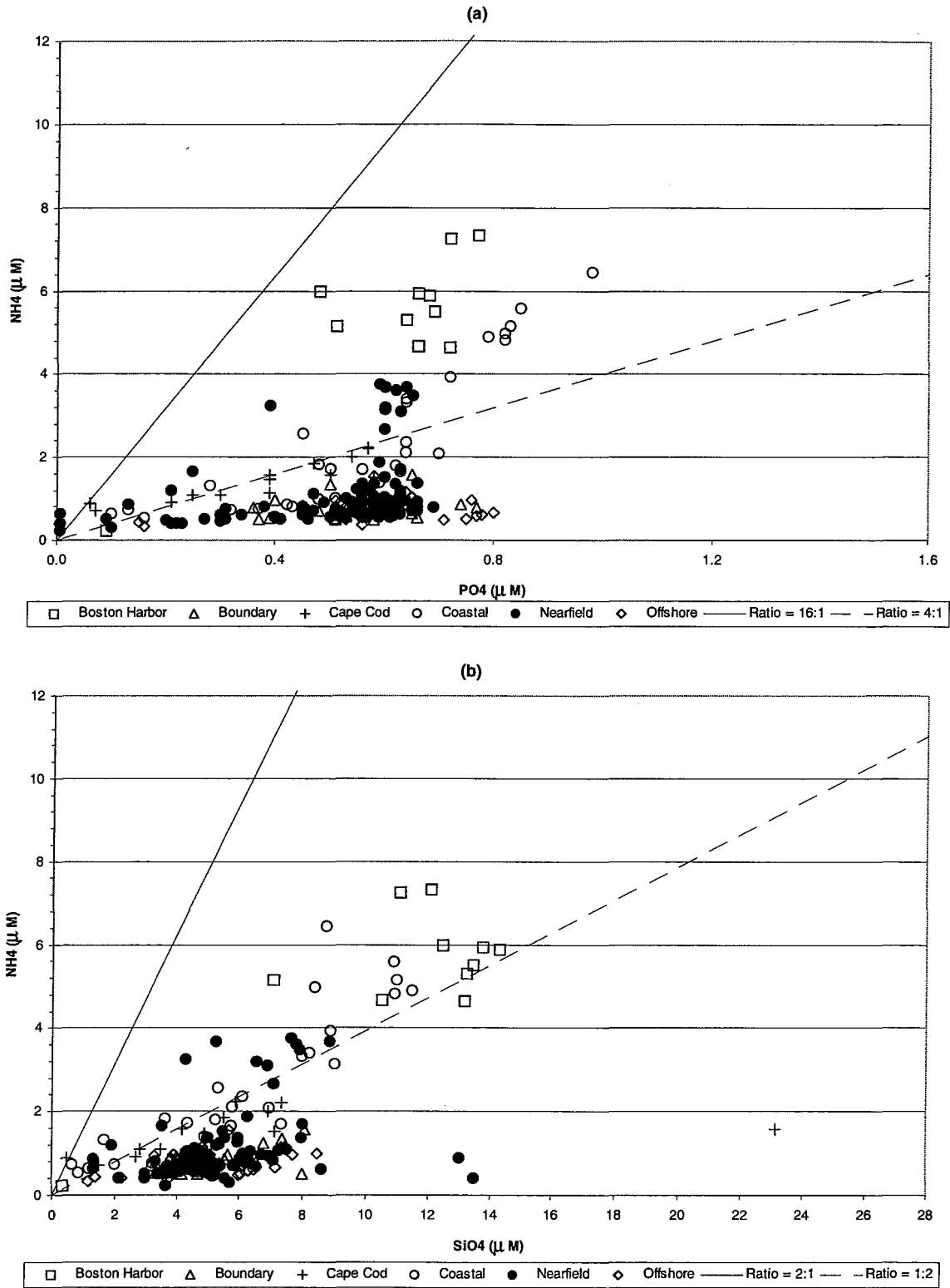


Figure D-21. Nutrient vs. Nutrient Plots for Farfield Survey WF982, (Feb 98)

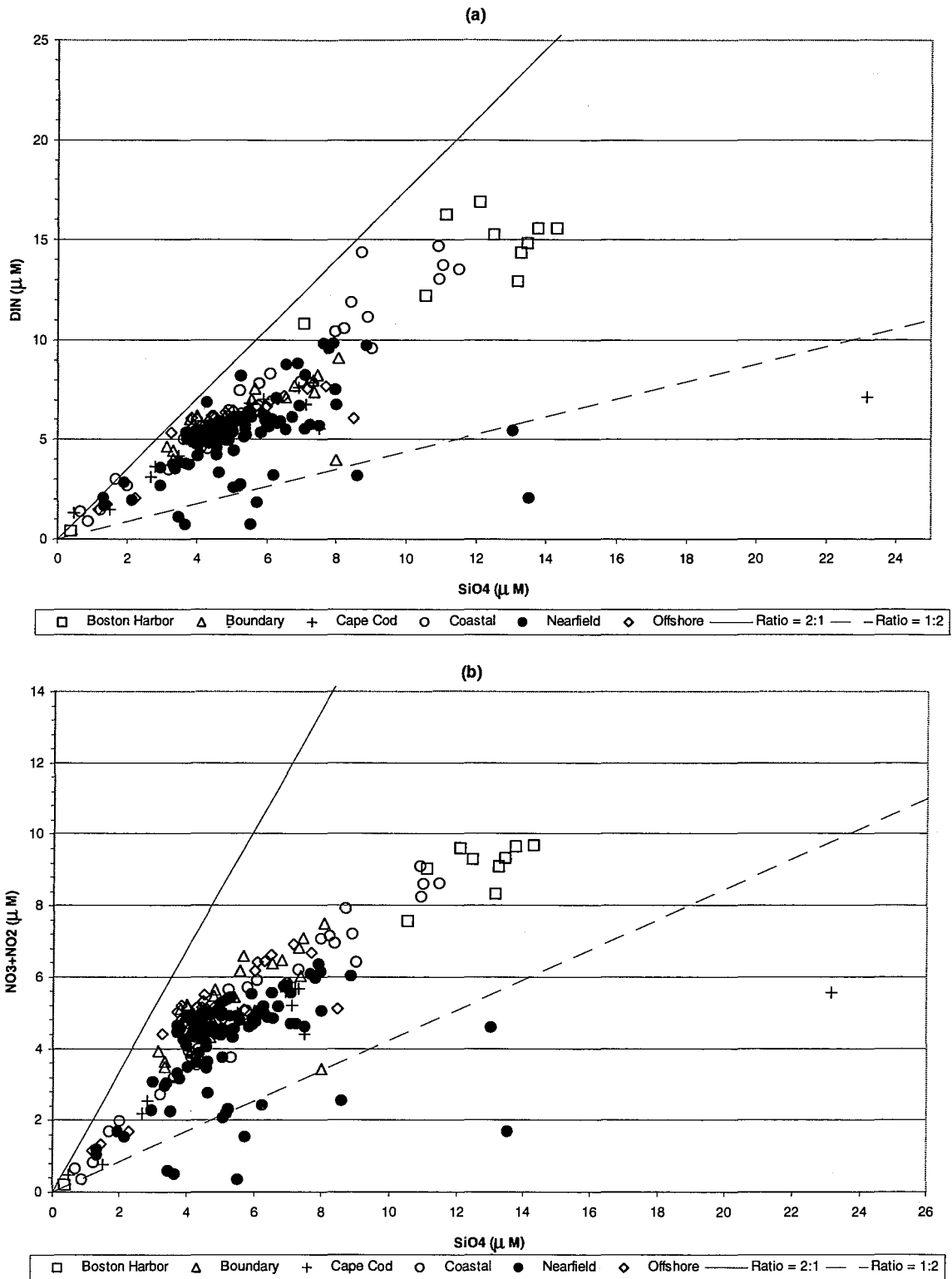


Figure D-22. Nutrient vs. Nutrient Plots for Farfield Survey WF982, (Feb 98)

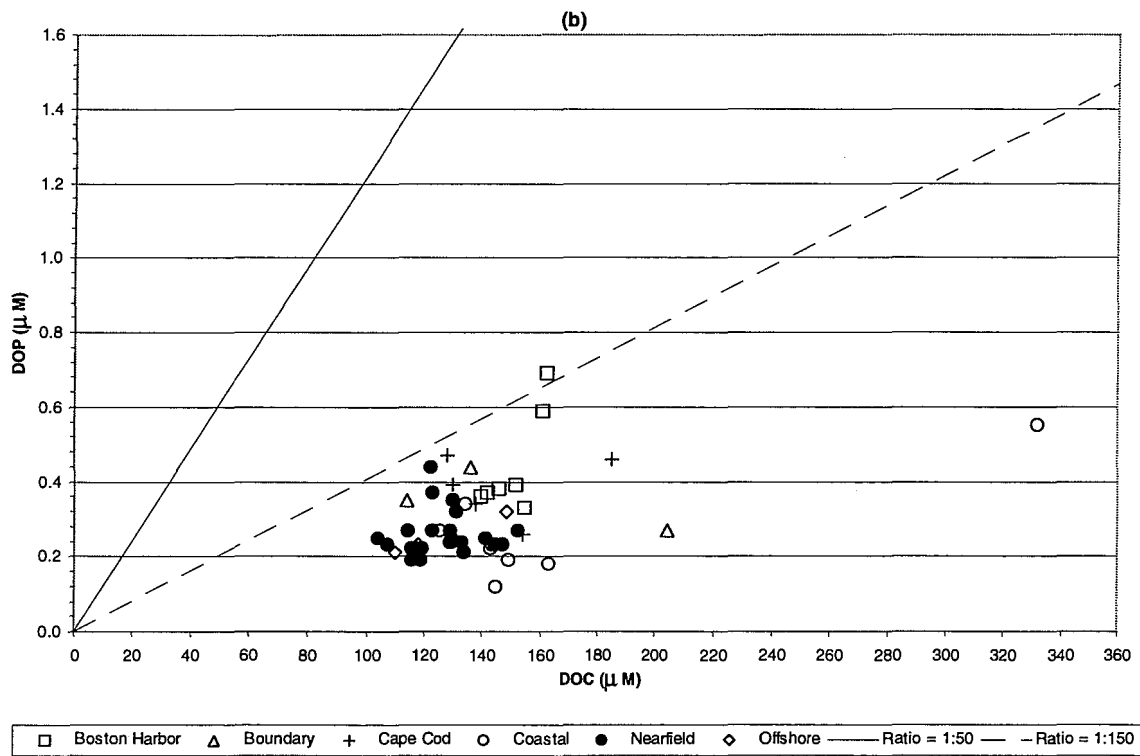
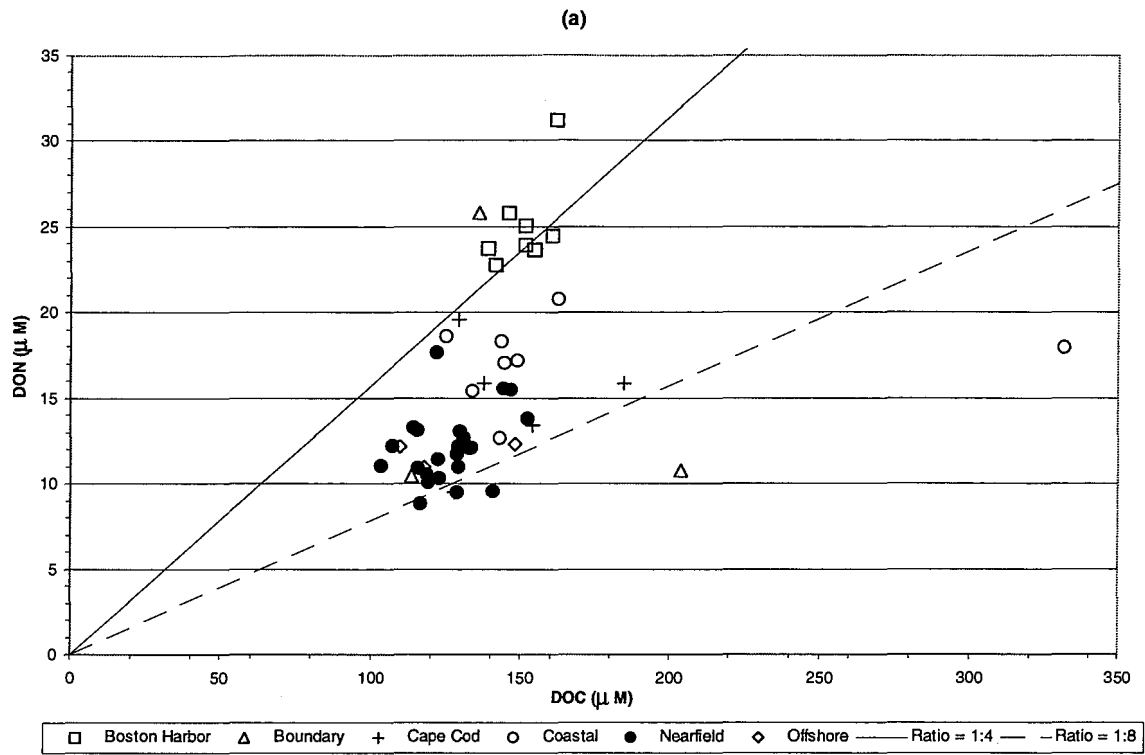


Figure D-23. Nutrient vs. Nutrient Plots for Farfield Survey WF982, (Feb 98)

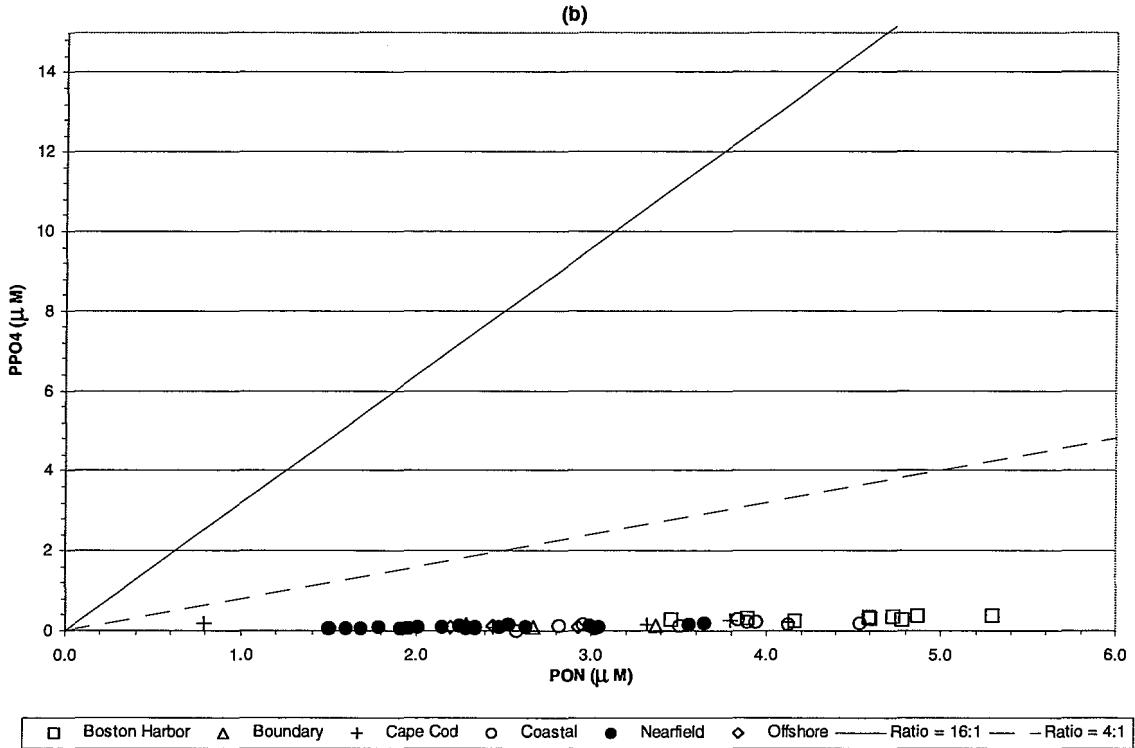
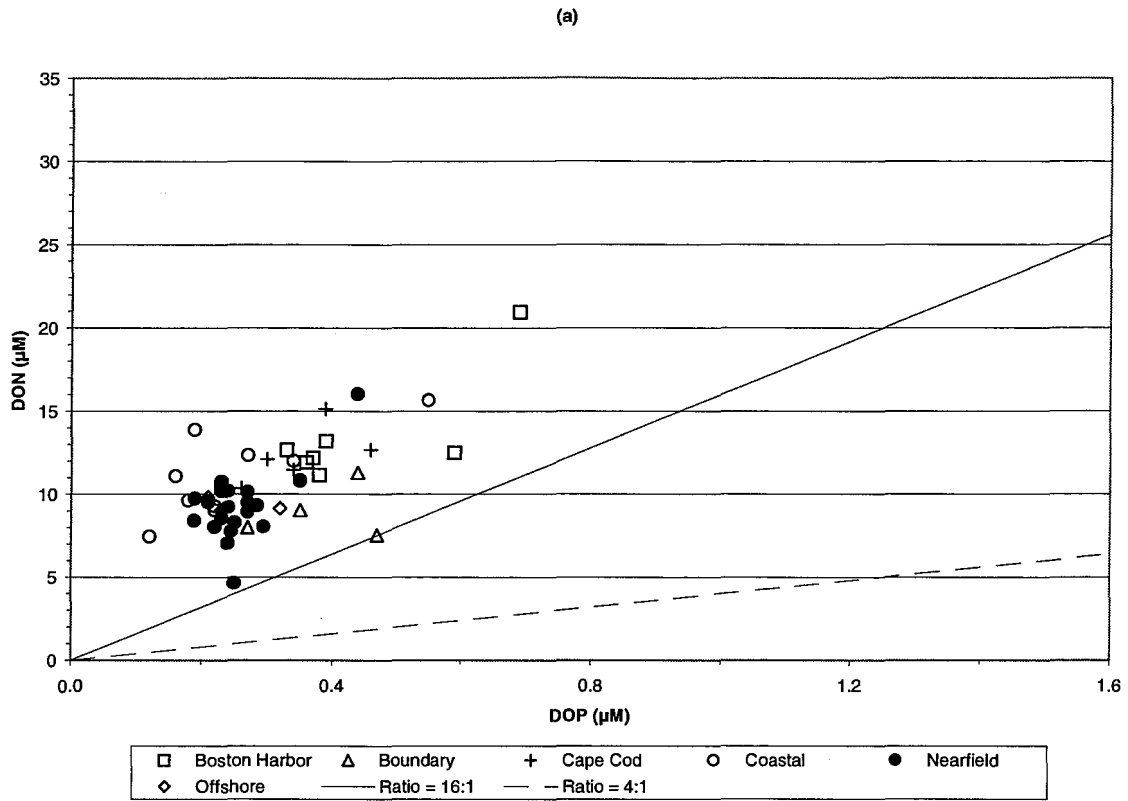


Figure D-24. Nutrient vs. Nutrient Plots for Farfield Survey WF982, (Feb 98)

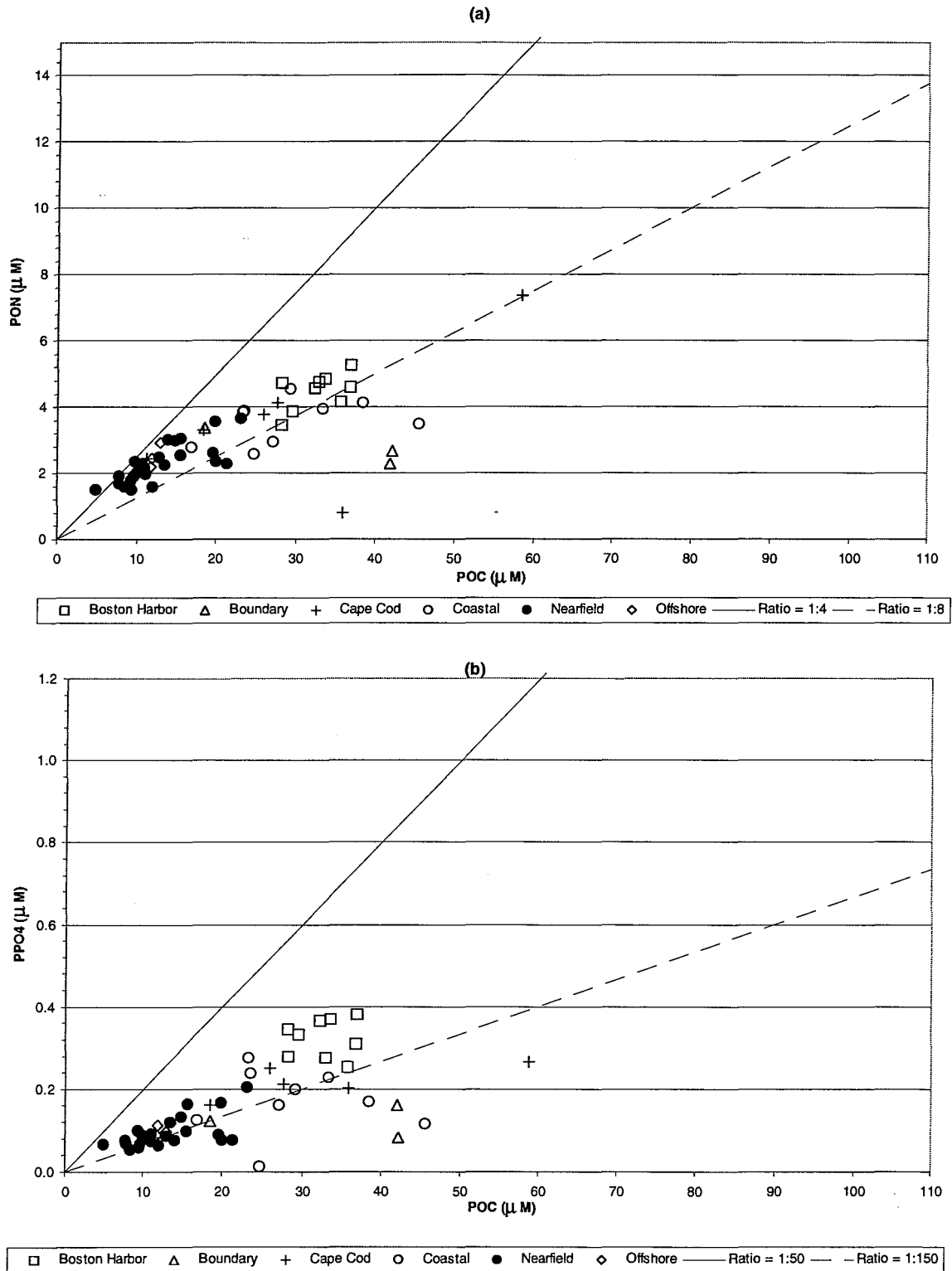


Figure D-25. Nutrient vs. Nutrient Plots for Farfield Survey WF982, (Feb 98)

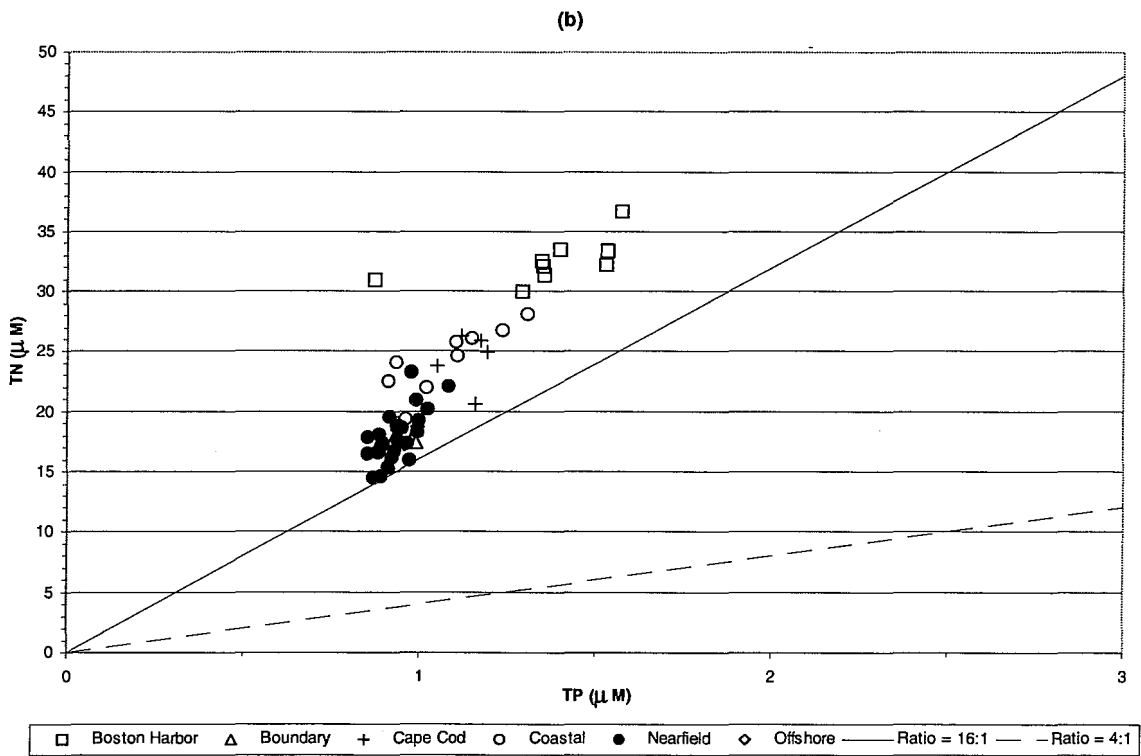
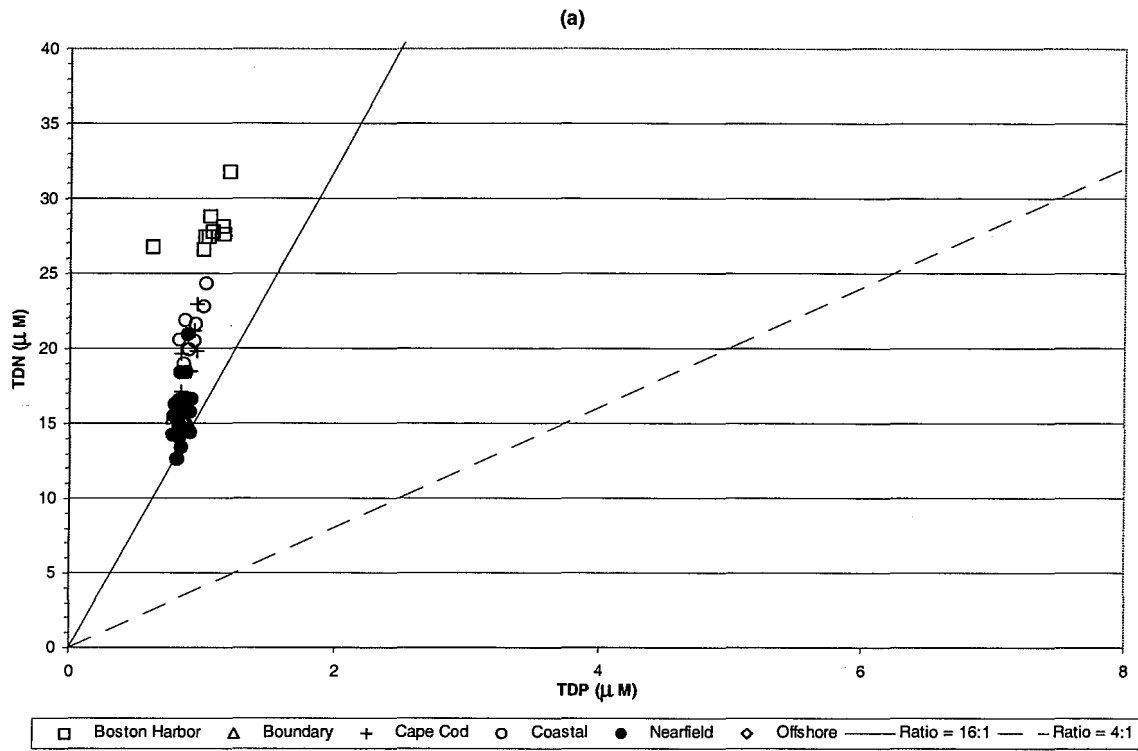


Figure D-26. Nutrient vs. Nutrient Plots for Farfield Survey WF982, (Feb 98)

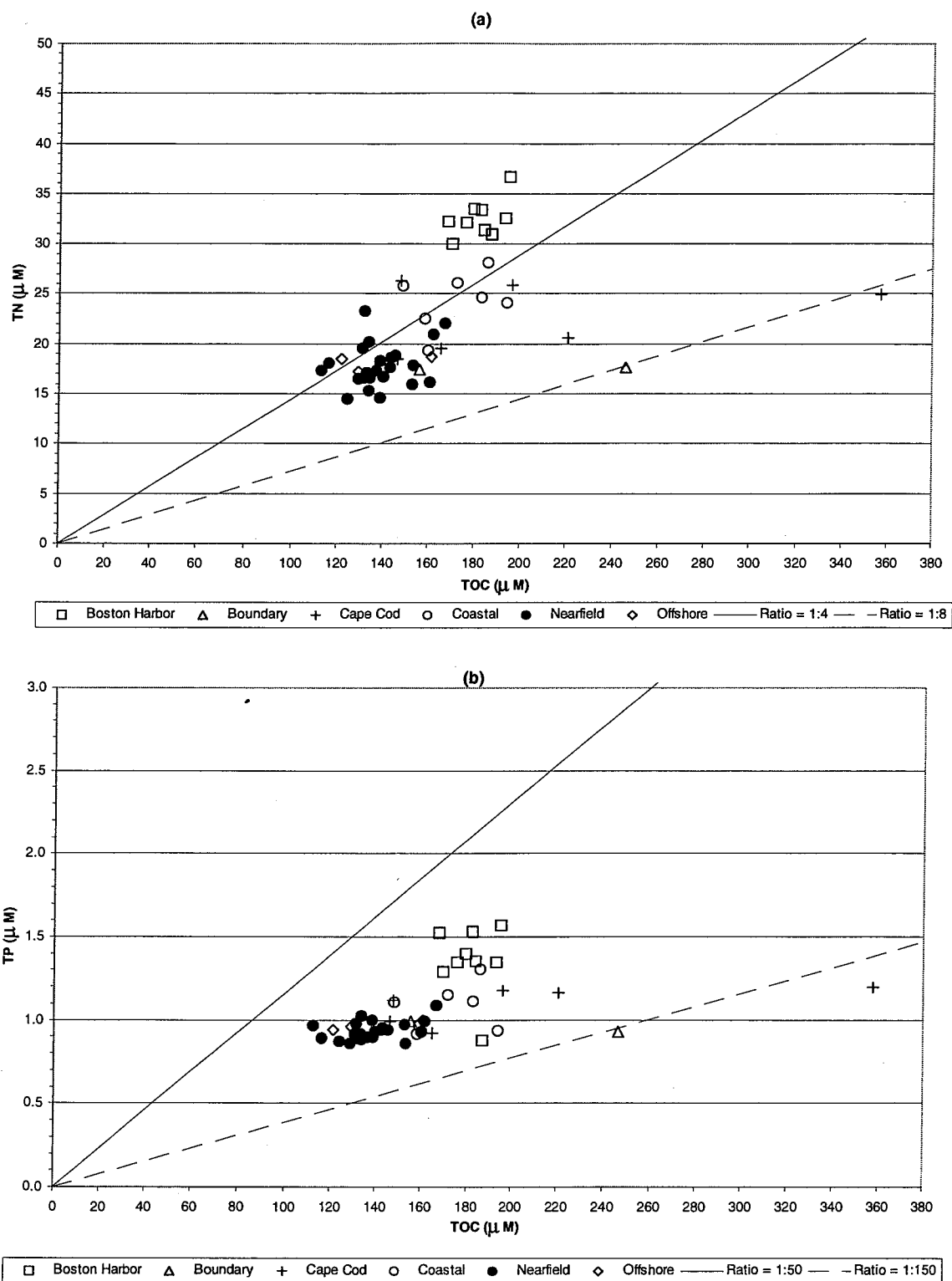


Figure D-27. Nutrient vs. Nutrient Plots for Farfield Survey WF982, (Feb 98)

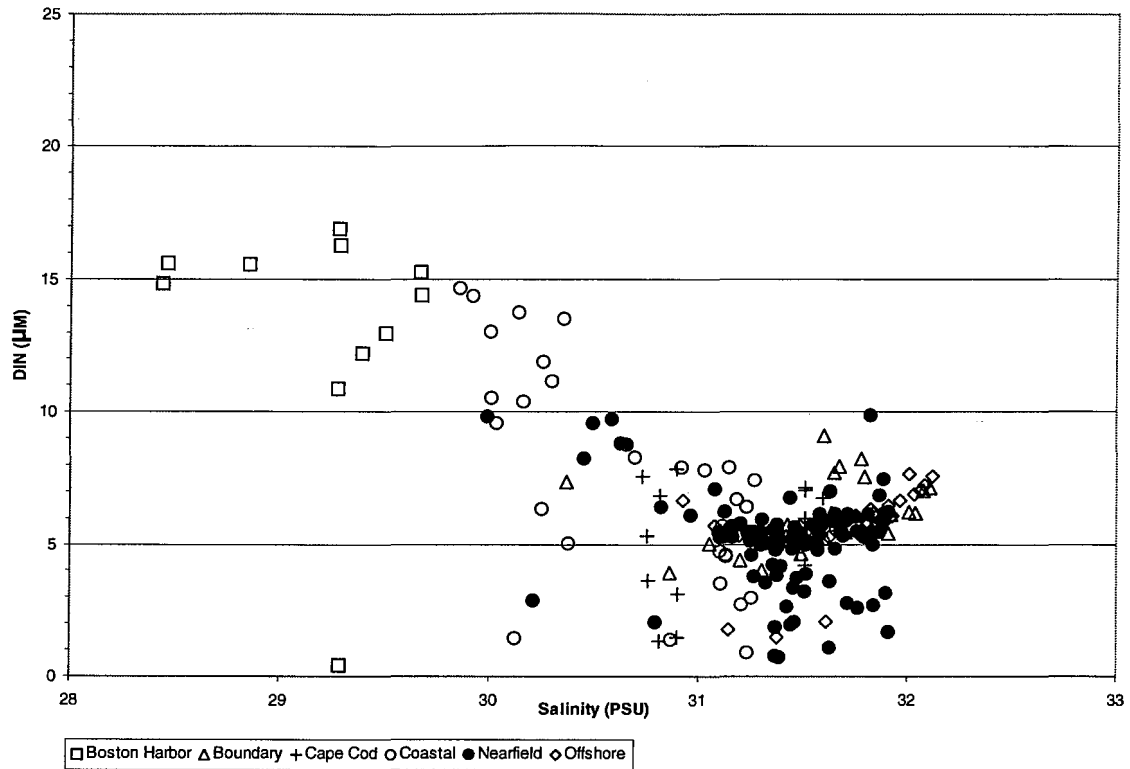


Figure D-28. Nutrient vs. Salinity Plots for Farfield Survey WF982, (Feb 98)

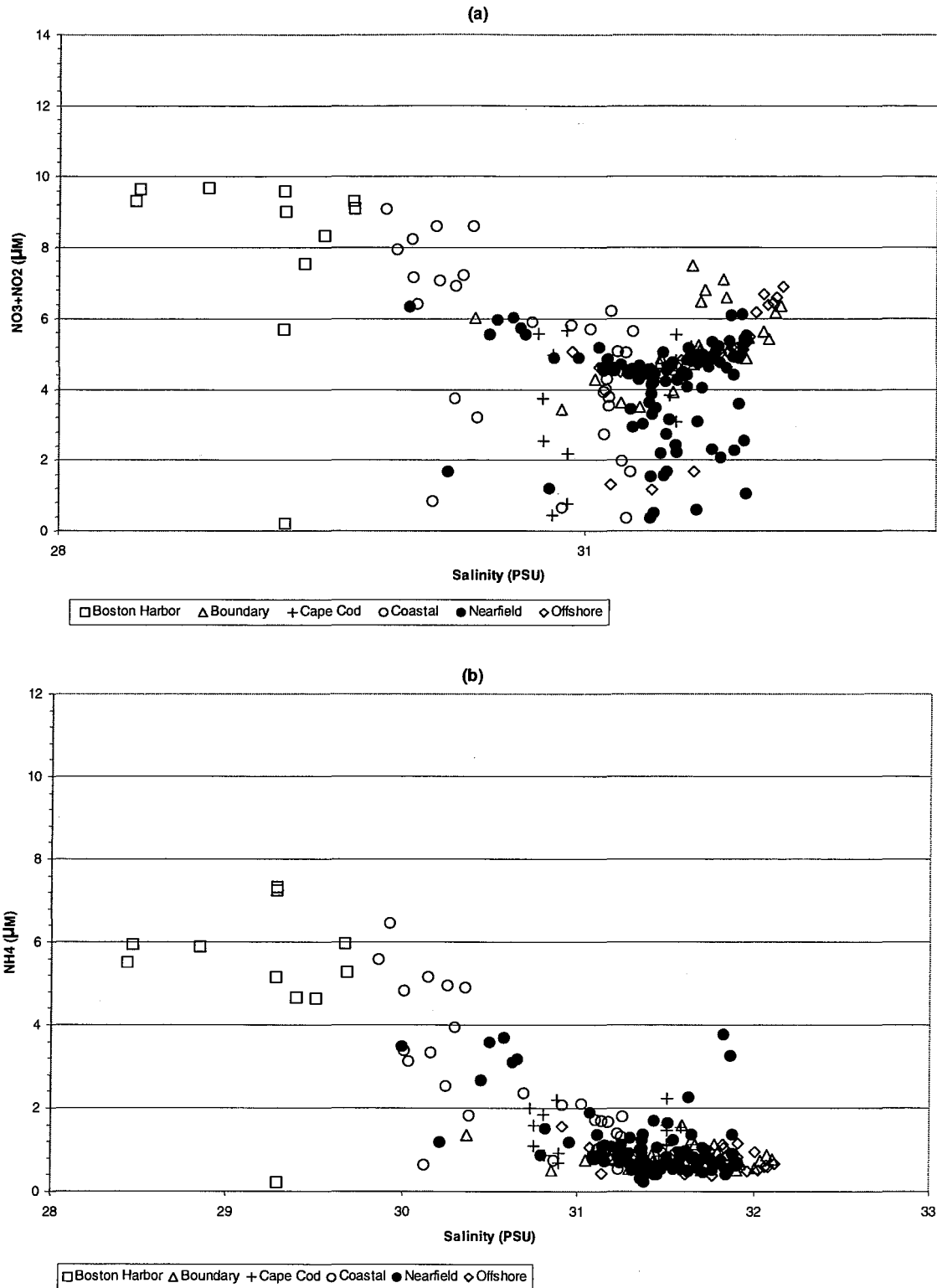


Figure D-29. Nutrient vs. Salinity Plots for Farfield Survey WF982, (Feb 98)

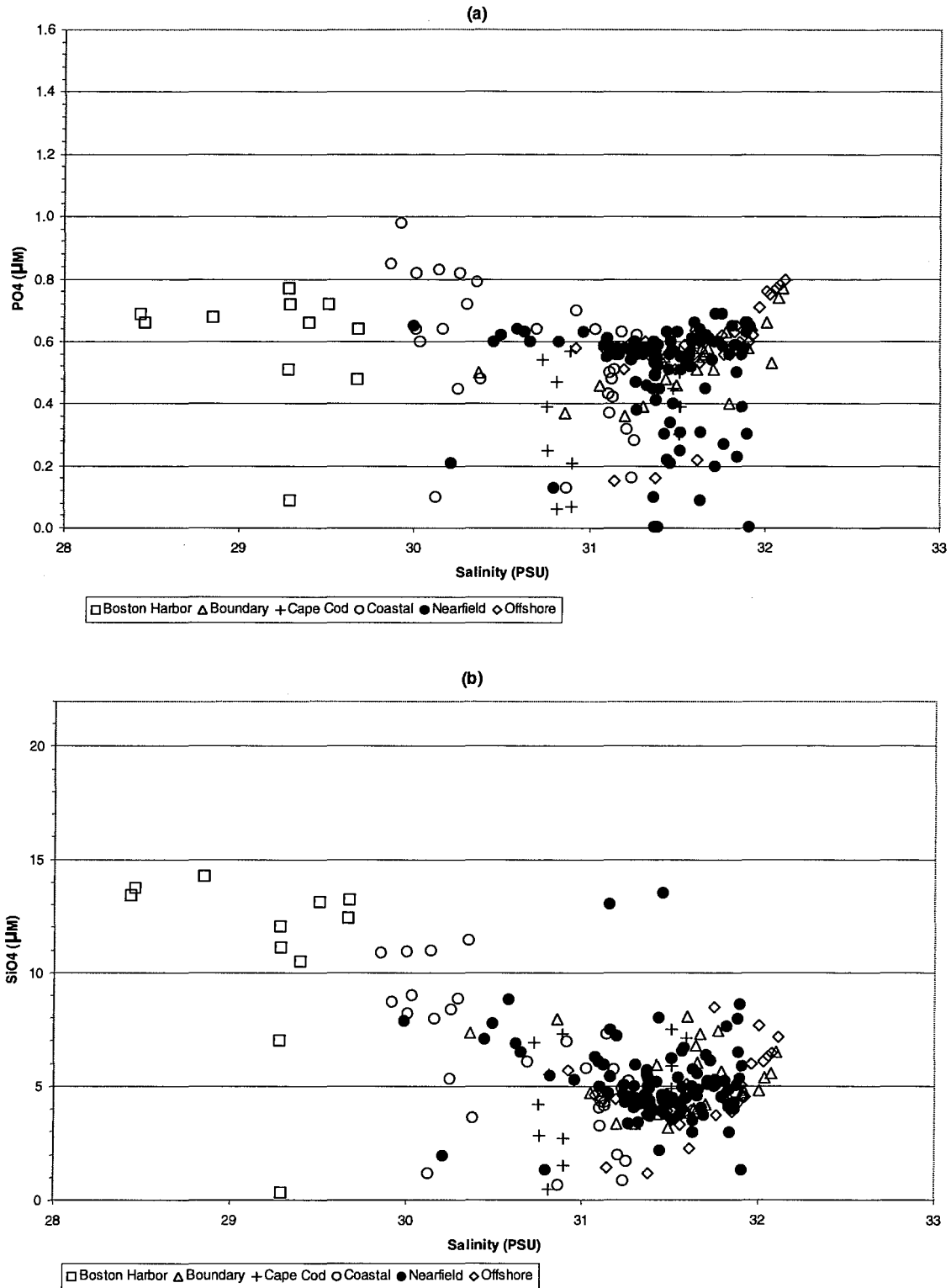


Figure D-30. Nutrient vs. Salinity Plots for Farfield Survey WF982, (Feb 98)

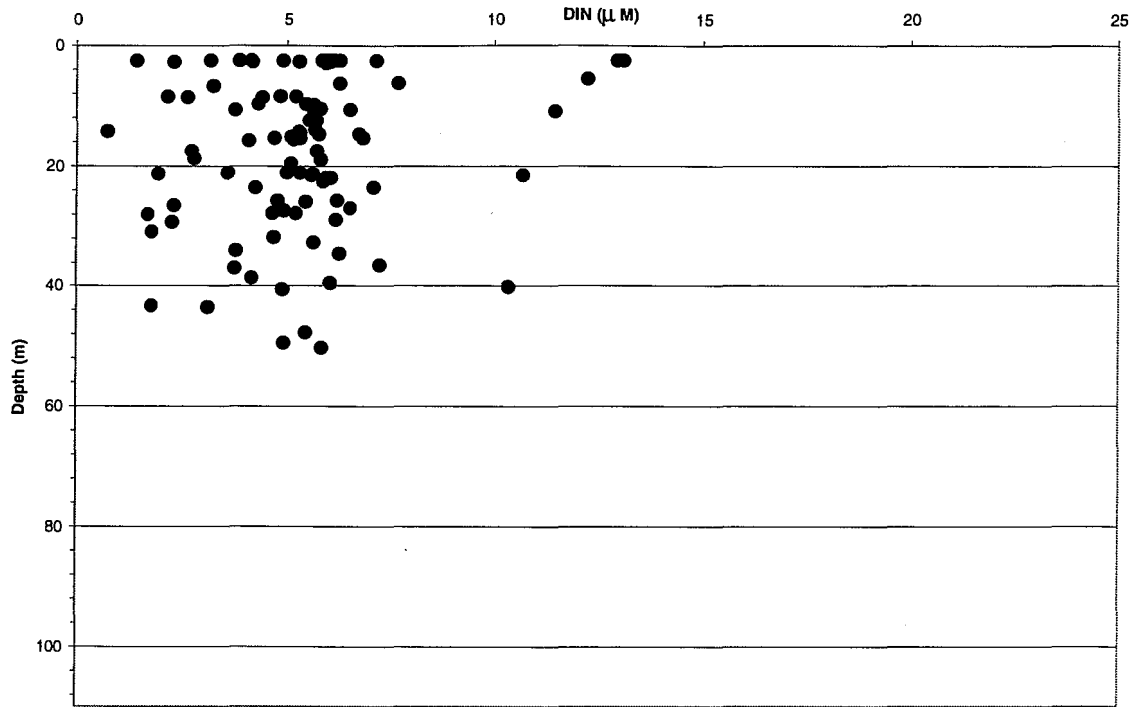


Figure D-31. Depth vs. Nutrient Plots for Nearfield Survey WN983, (Mar 98)

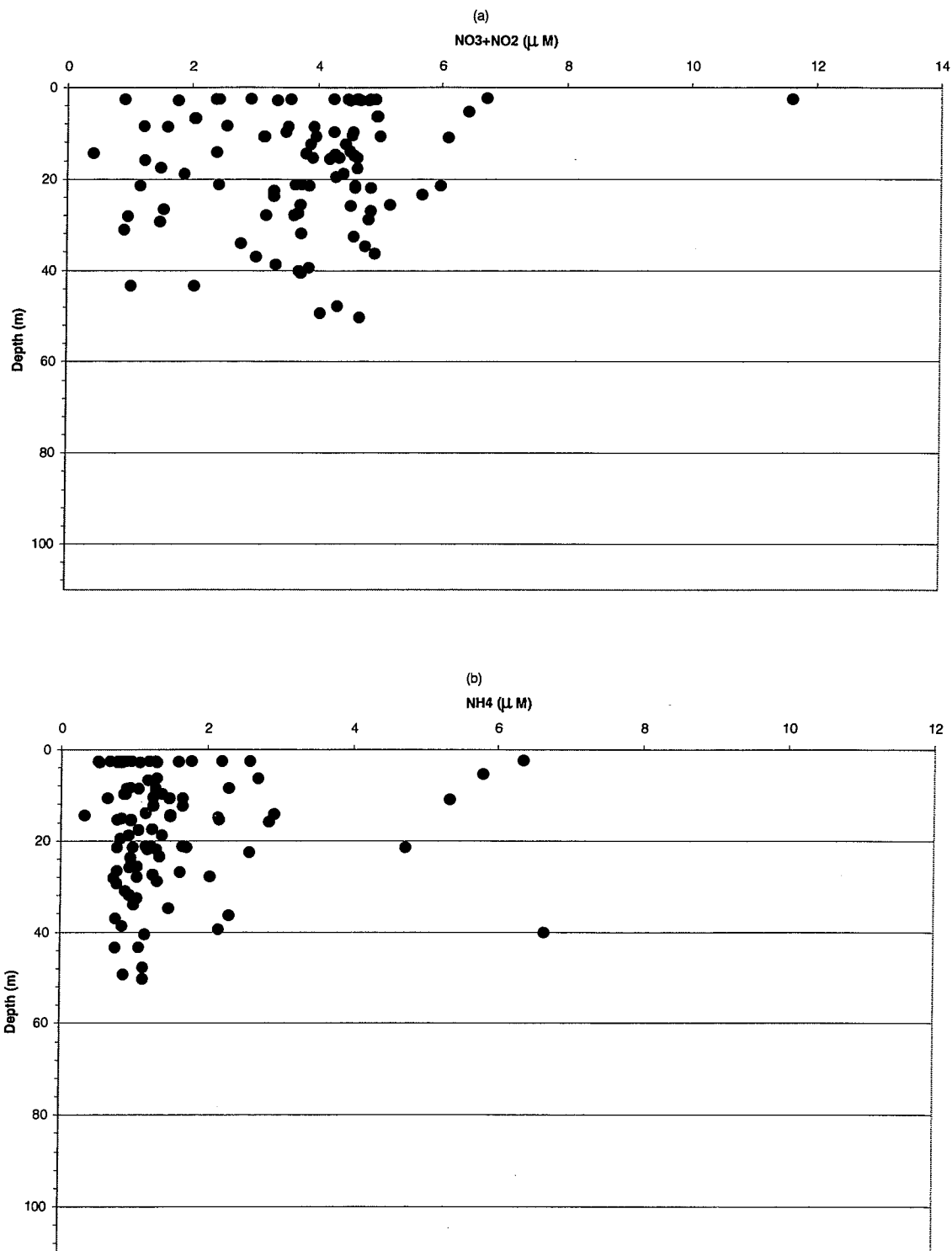


Figure D-32. Depth vs. Nutrient Plots for Nearfield Survey WN983, (Mar 98)

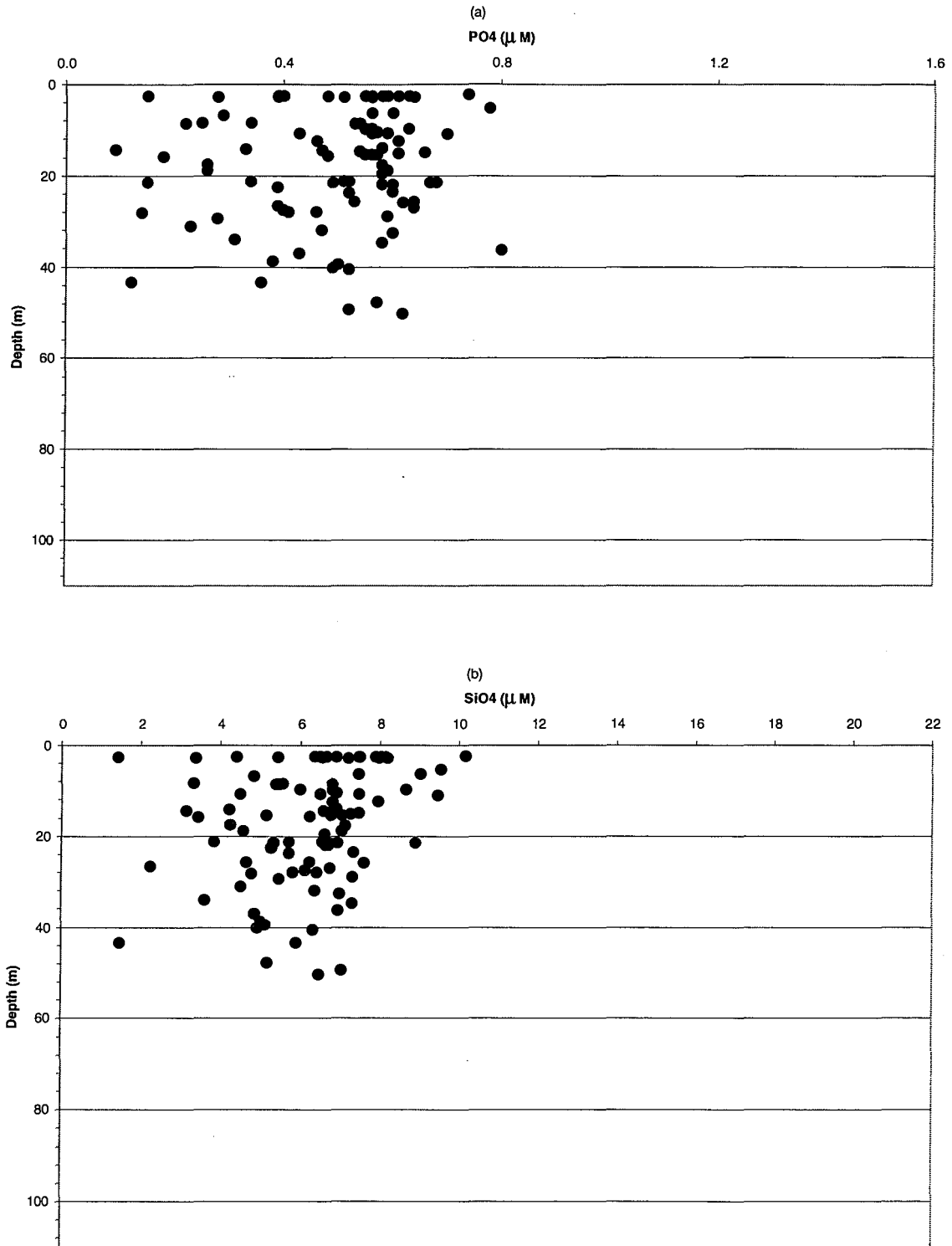


Figure D-33. Depth vs. Nutrient Plots for Nearfield Survey WN983, (Mar 98)

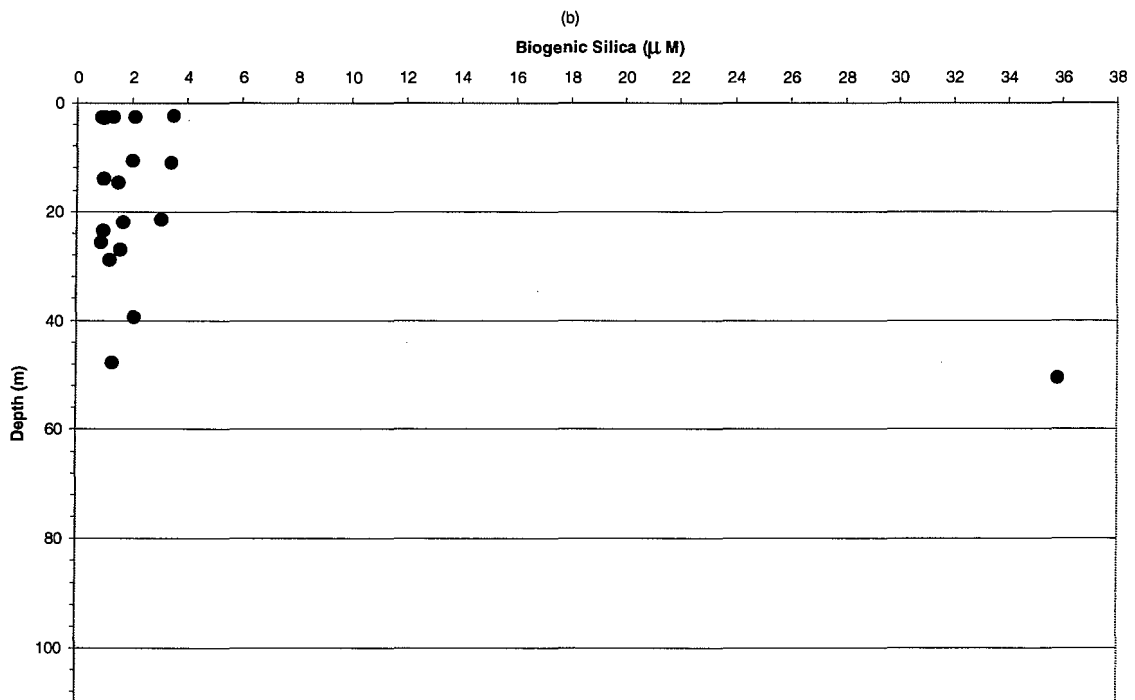
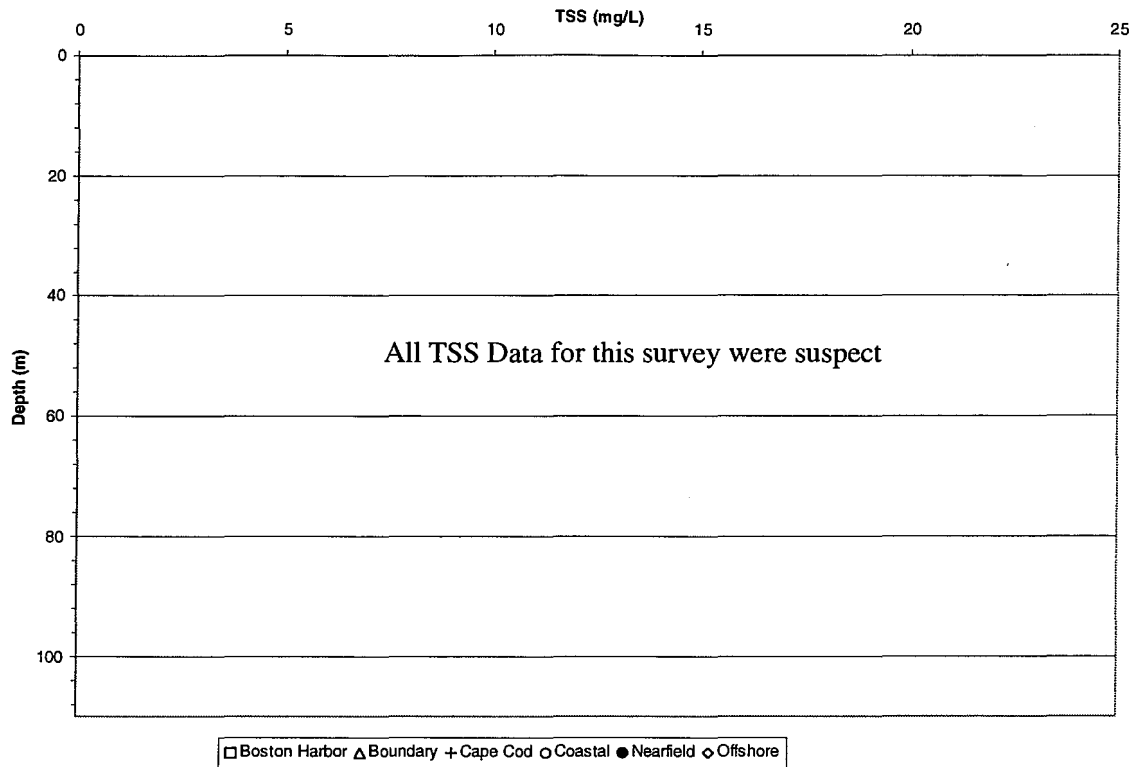


Figure D-34. Depth vs. Nutrient Plots for Nearfield Survey WN983, (Mar 98)

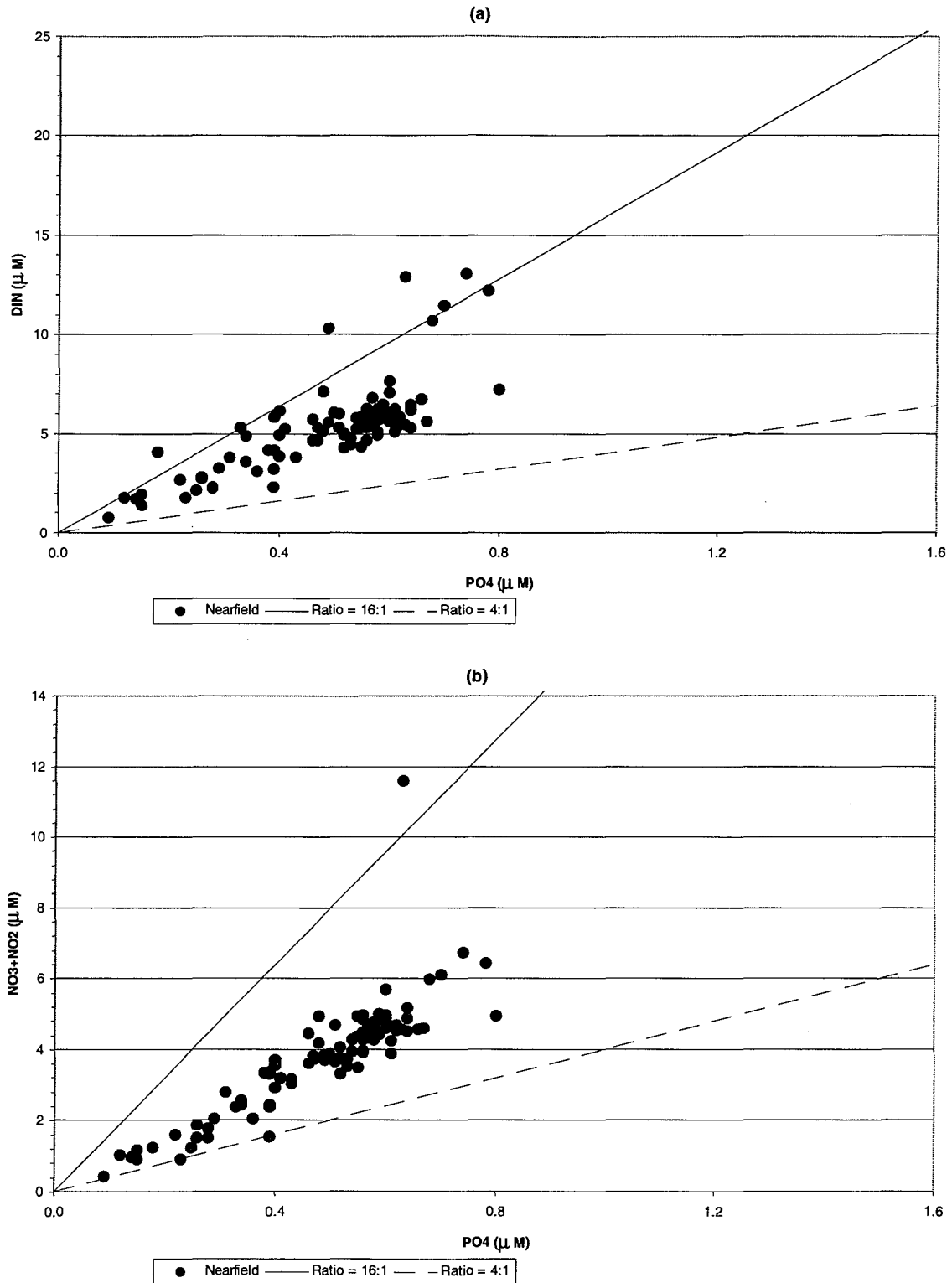


Figure D-35. Nutrient vs. Nutrient Plots for Nearfield Survey WN983, (Mar 98)

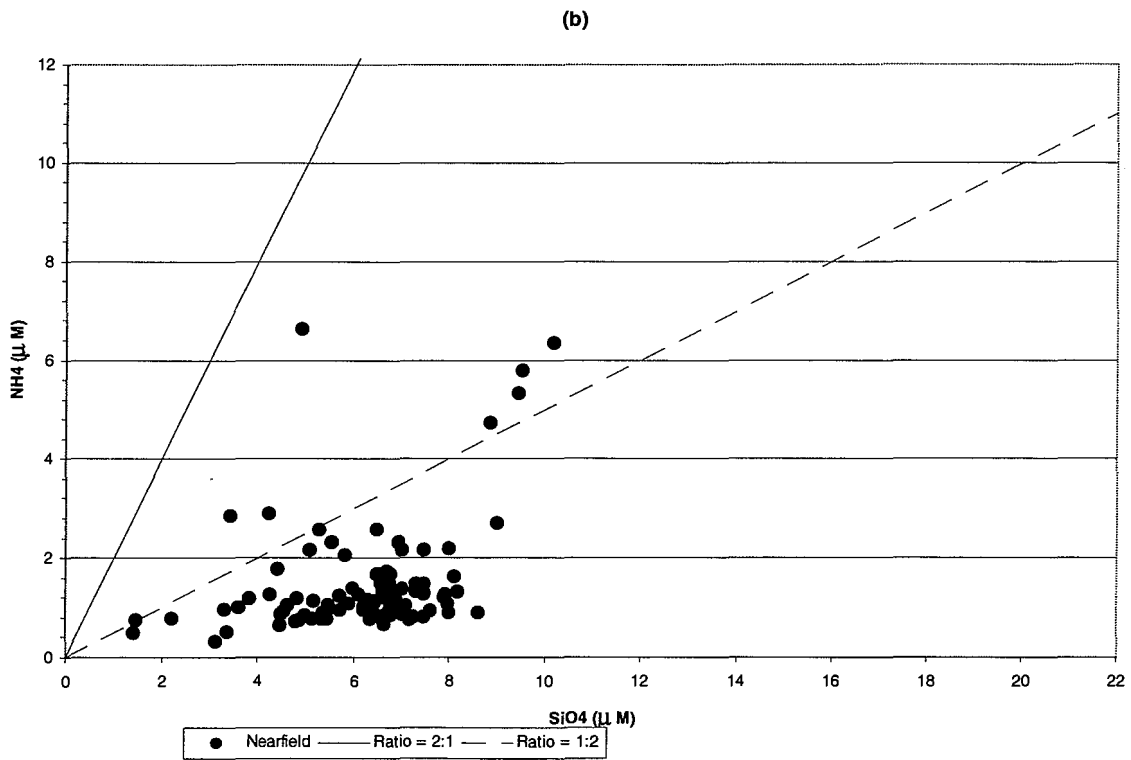
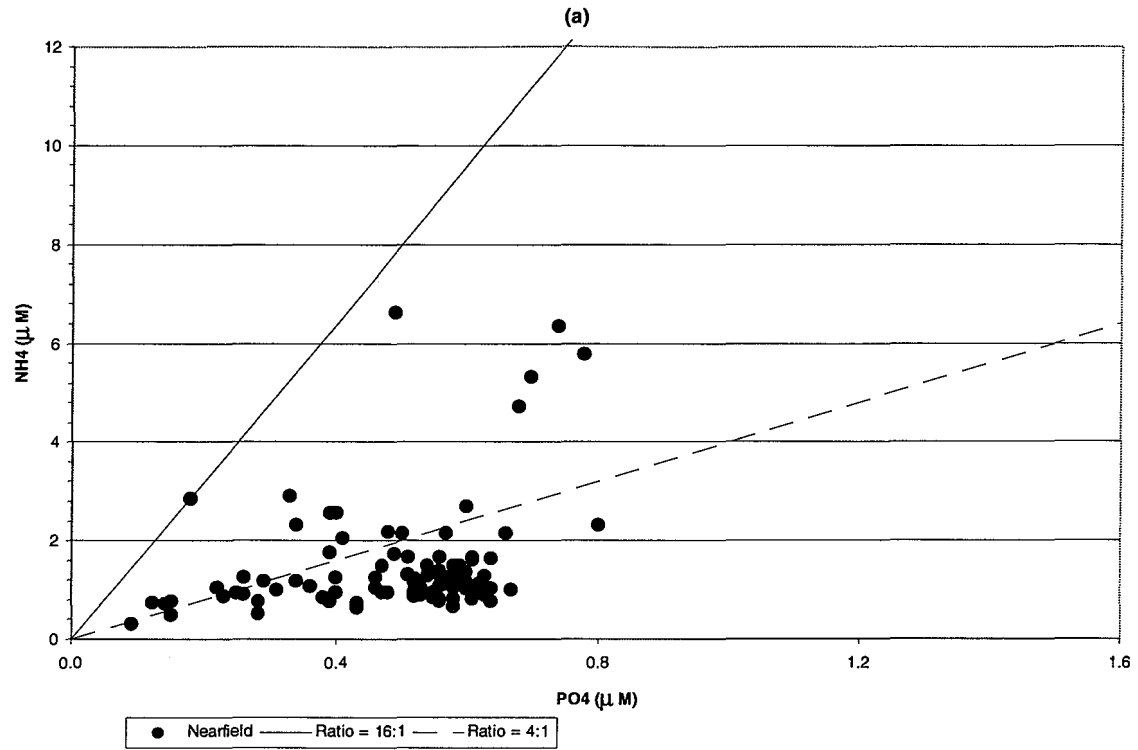


Figure D-36. Nutrient vs. Nutrient Plots for Nearfield Survey WN983, (Mar 98)

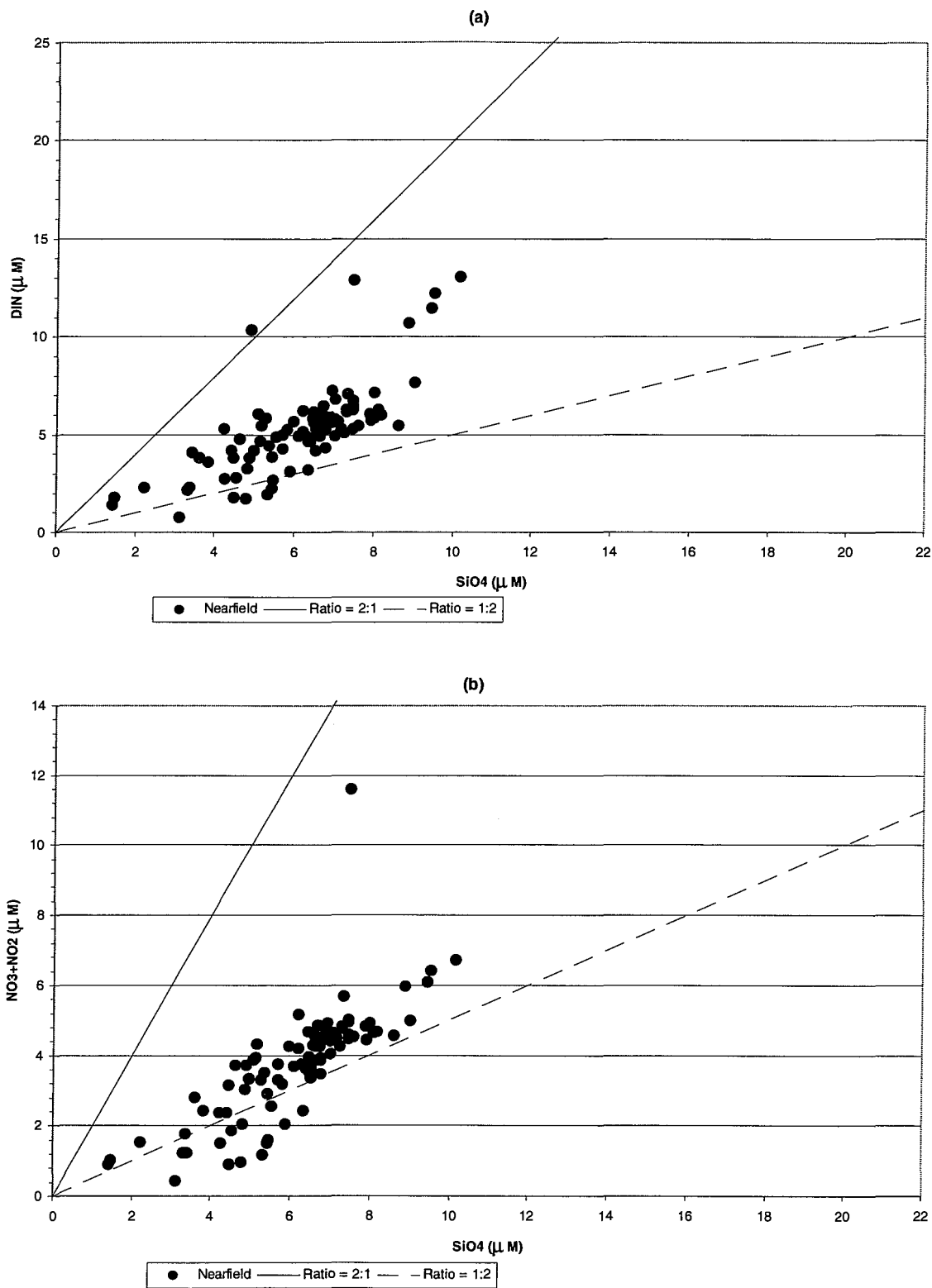


Figure D-37. Nutrient vs. Nutrient Plots for Nearfield Survey WN983, (Mar 98)

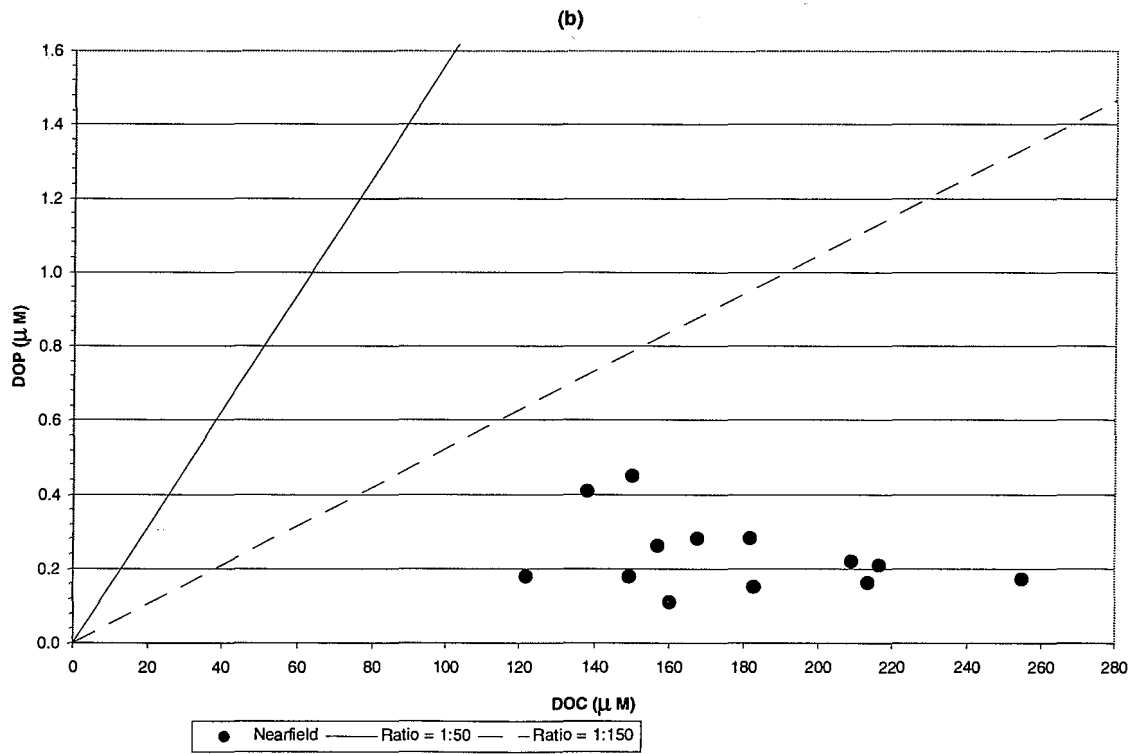
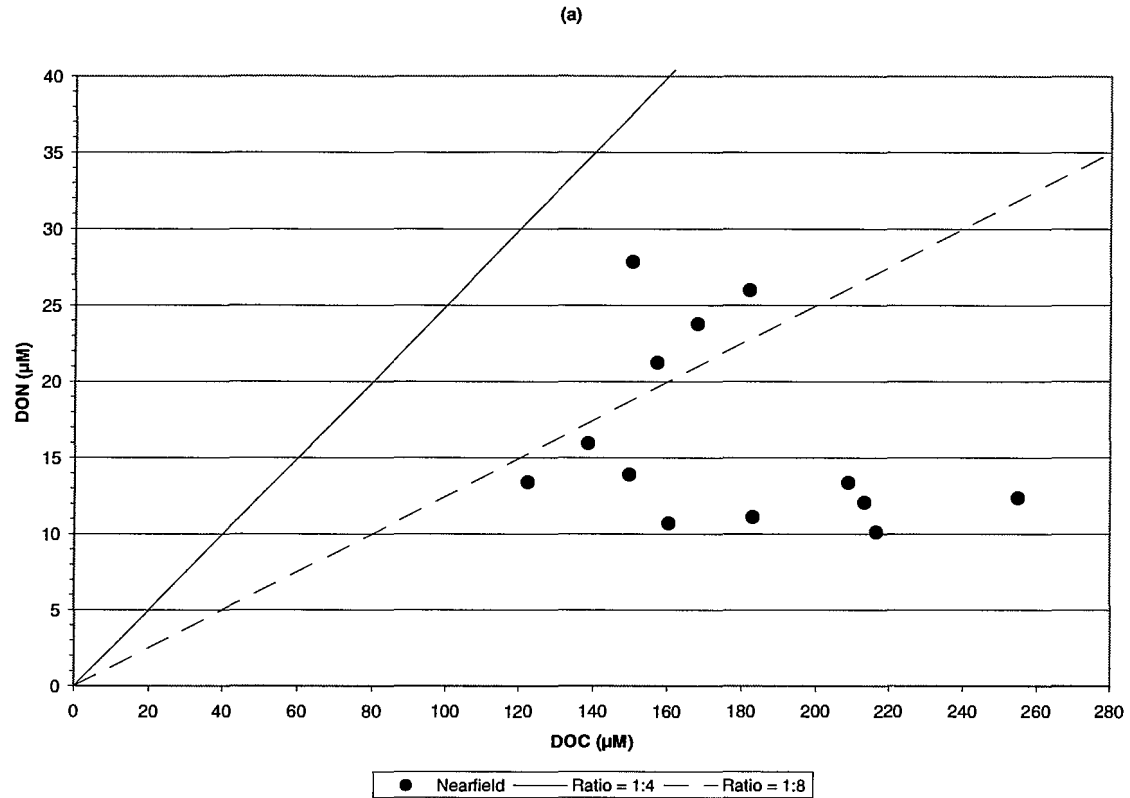


Figure D-38. Nutrient vs. Nutrient Plots for Nearfield Survey WN983, (Mar 98)

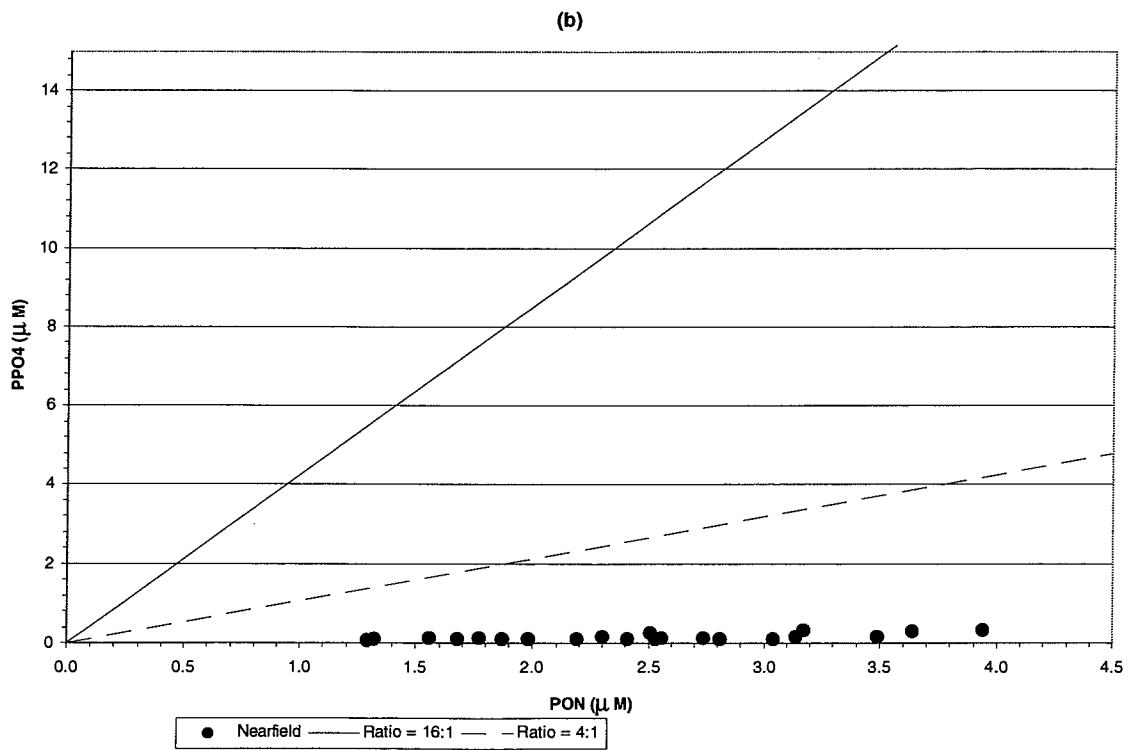
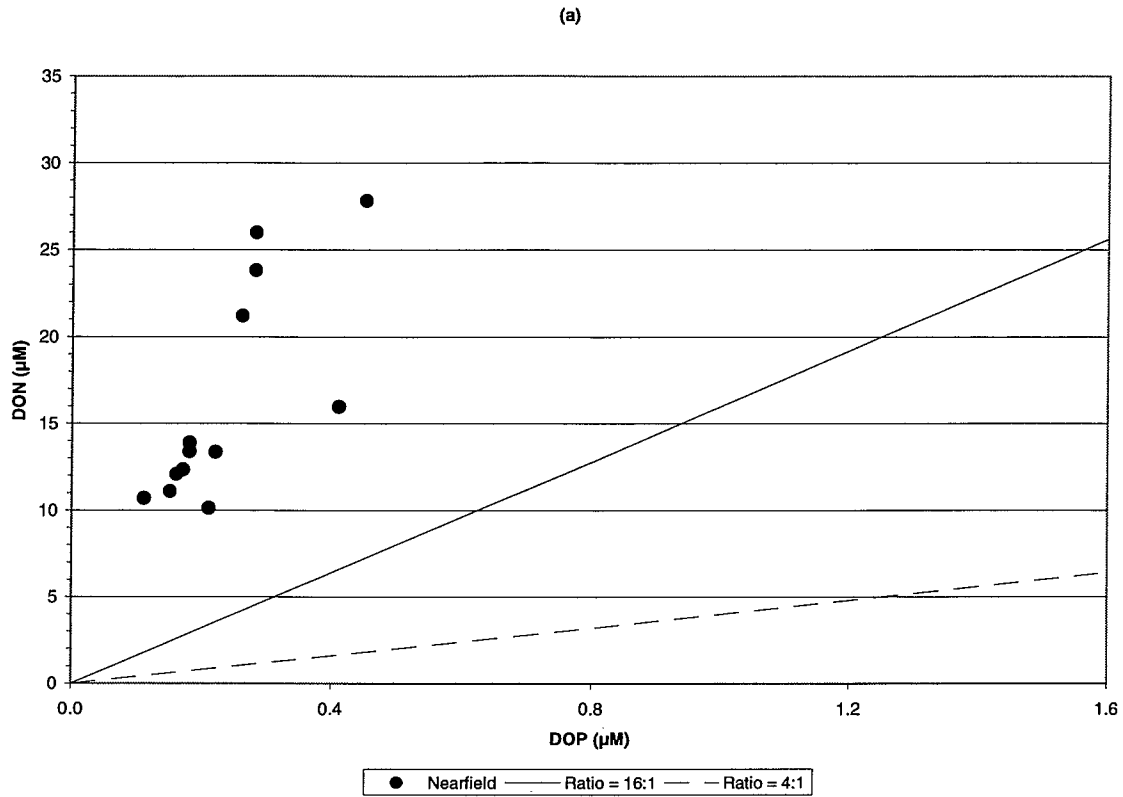


Figure D-39. Nutrient vs. Nutrient Plots for Nearfield Survey WN983, (Mar 98)

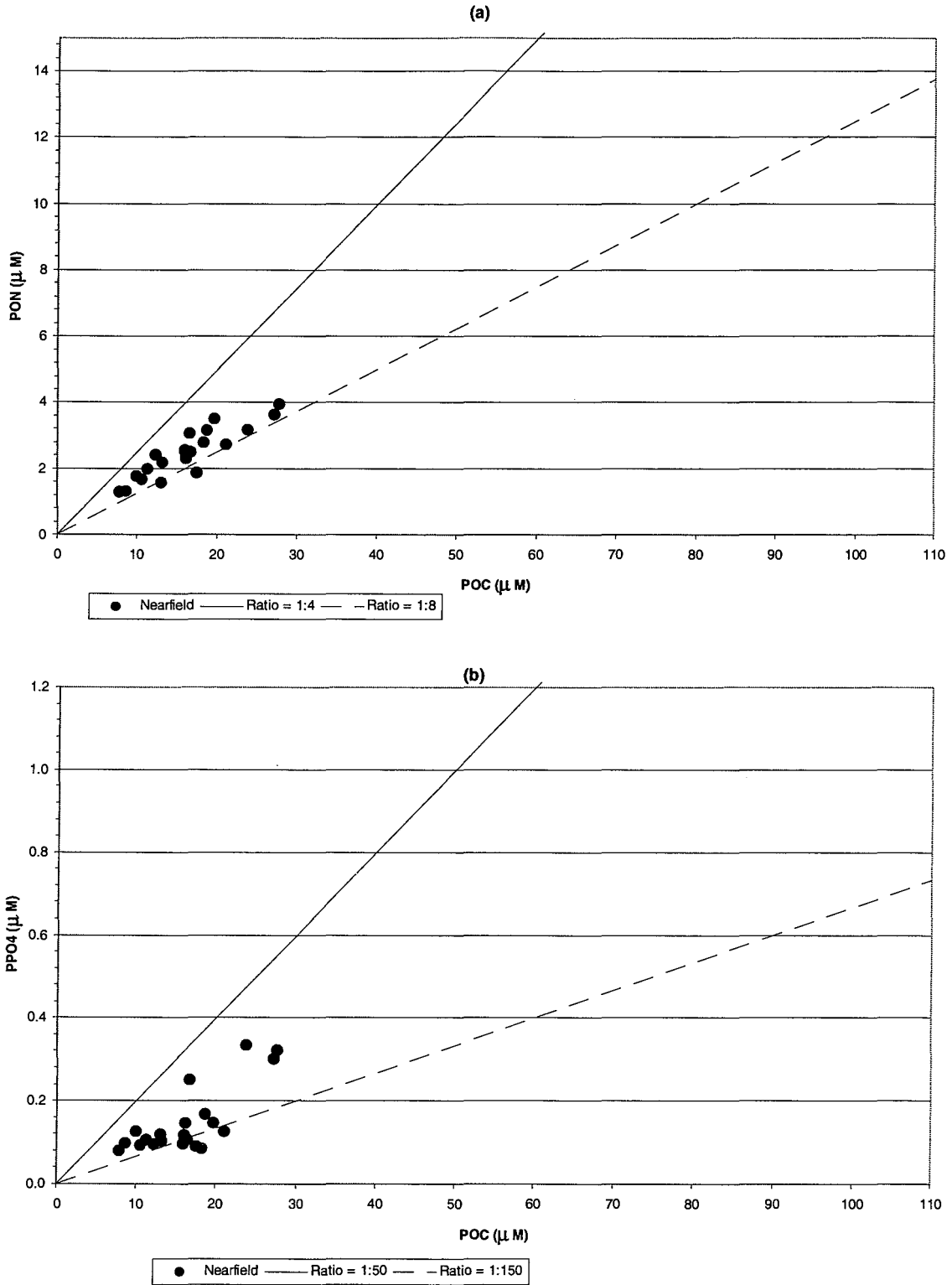


Figure D-40. Nutrient vs. Nutrient Plots for Nearfield Survey WN983, (Mar 98)

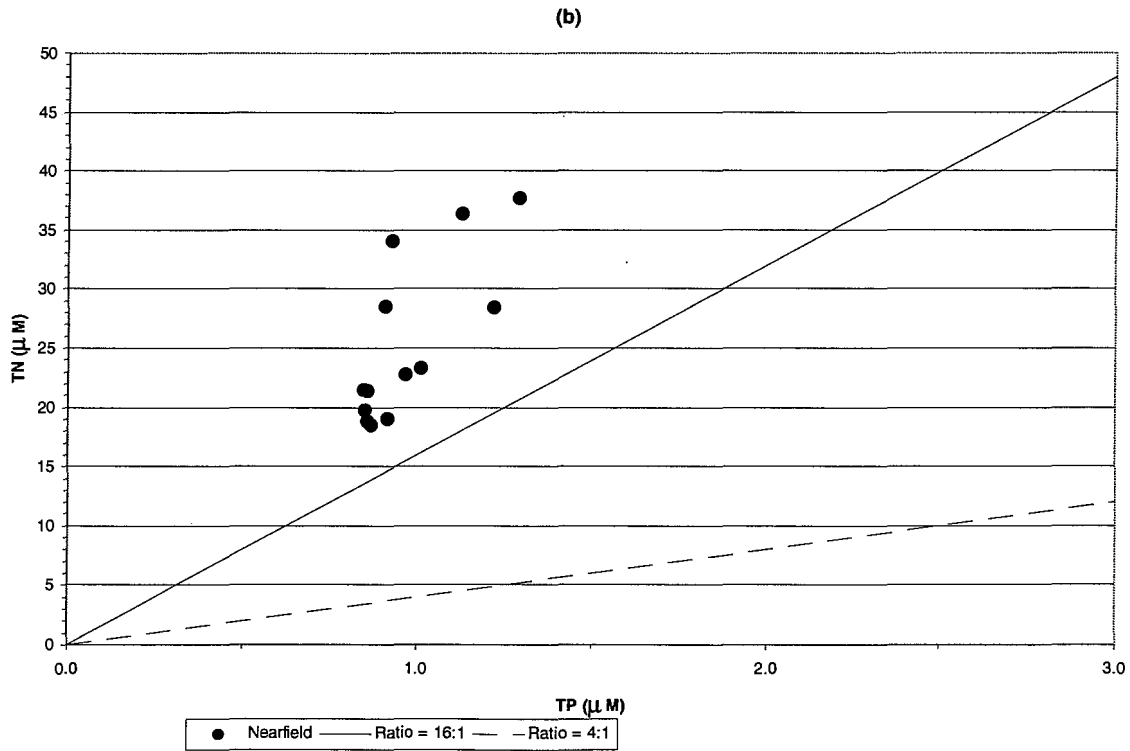
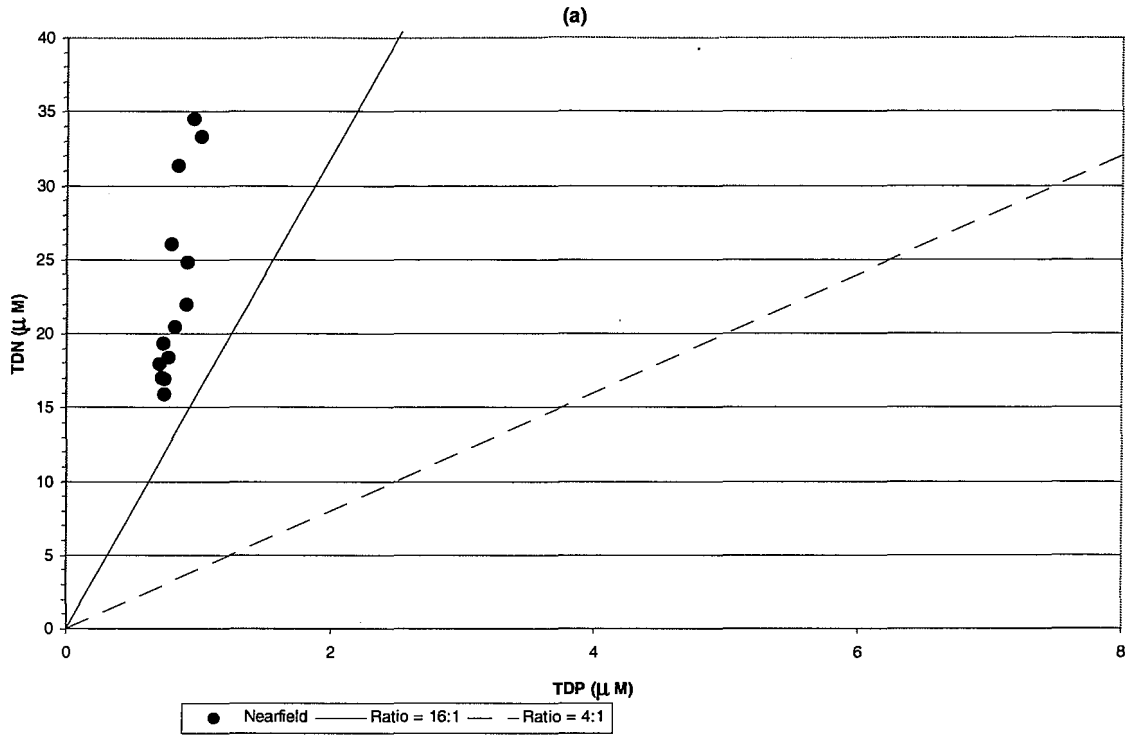


Figure D-41. Nutrient vs. Nutrient Plots for Nearfield Survey WN983, (Mar 98)

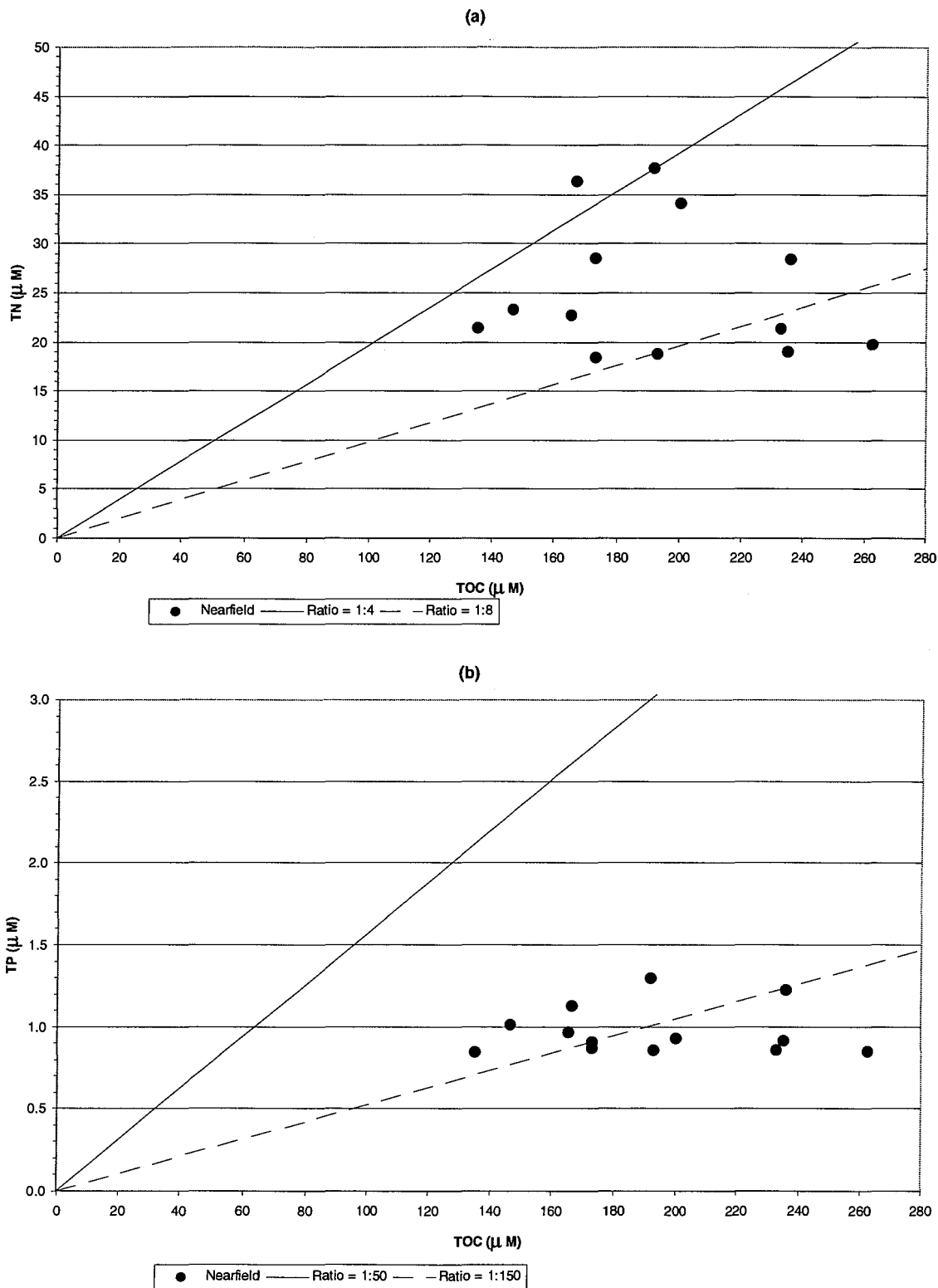


Figure D-42. Nutrient vs. Nutrient Plots for Nearfield Survey WN983, (Mar 98)

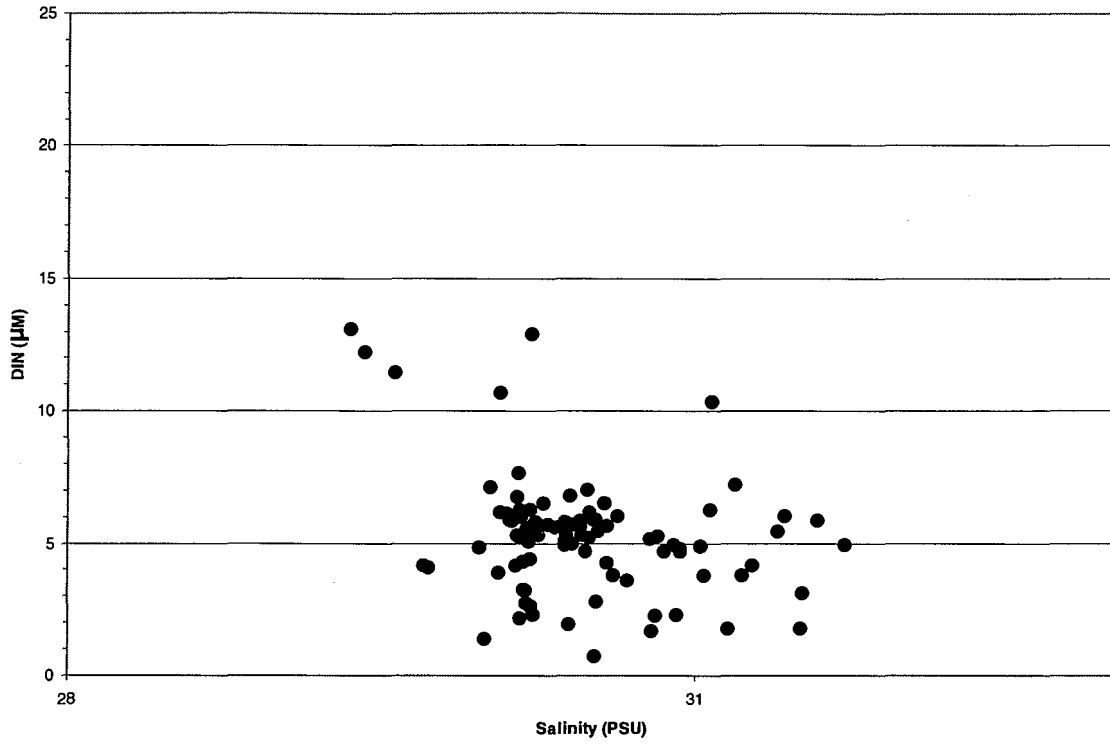


Figure D-43. Nutrient vs. Salinity Plots for Nearfield Survey WN983, (Mar 98)

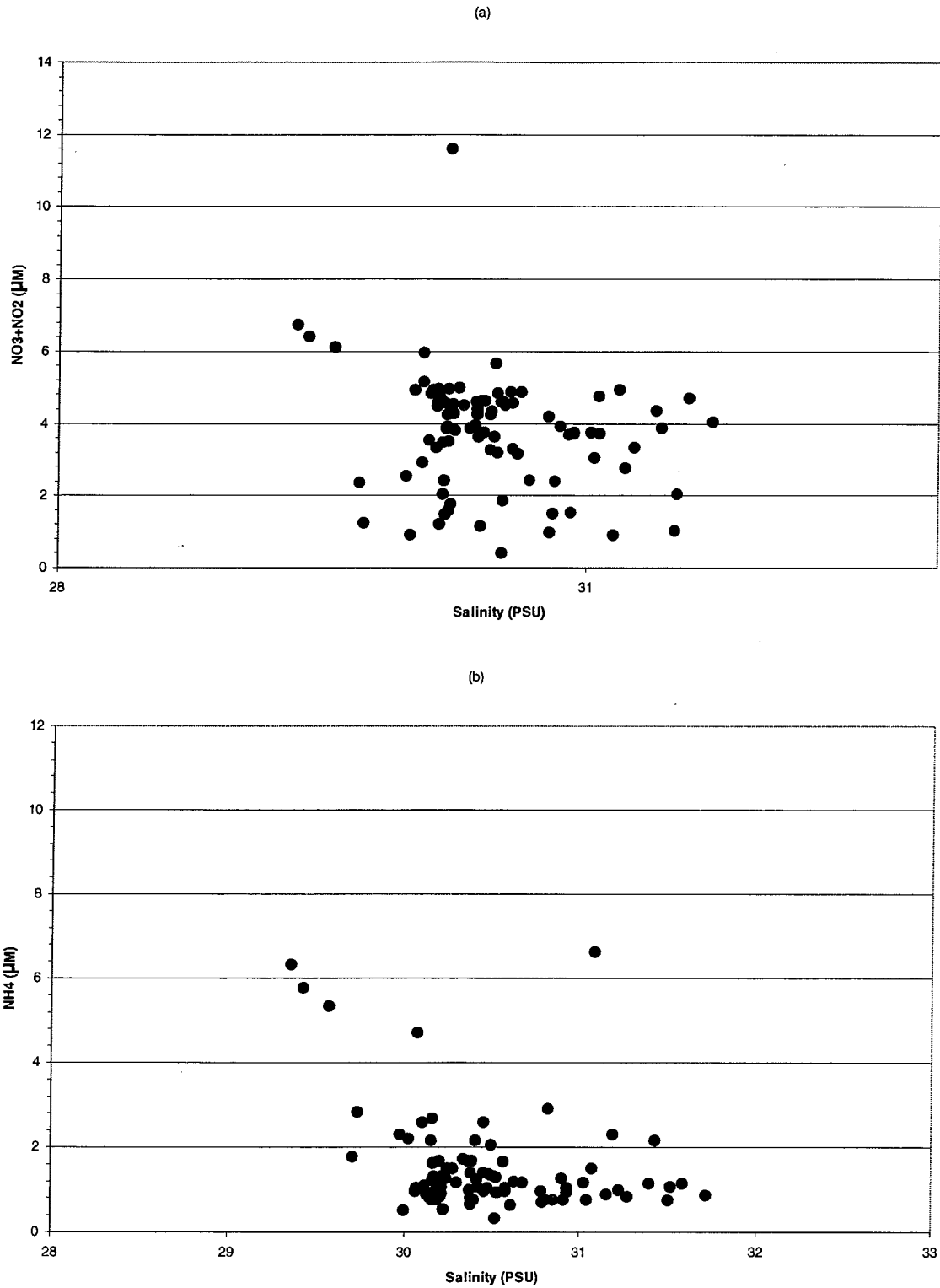


Figure D-44. Nutrient vs. Salinity Plots for Nearfield Survey WN983, (Mar 98)

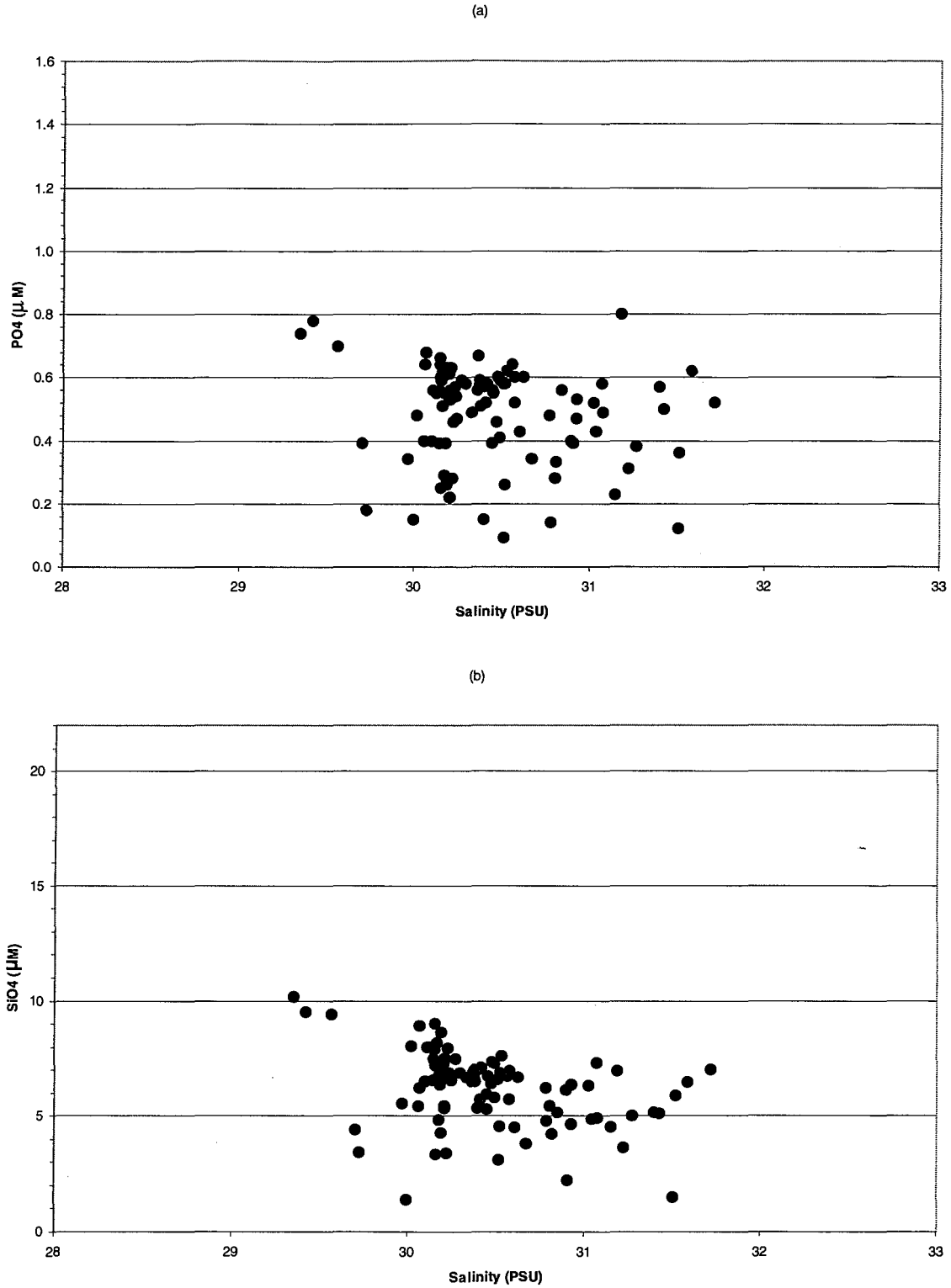


Figure D-45. Nutrient vs. Salinity Plots for Nearfield Survey WN983, (Mar 98)

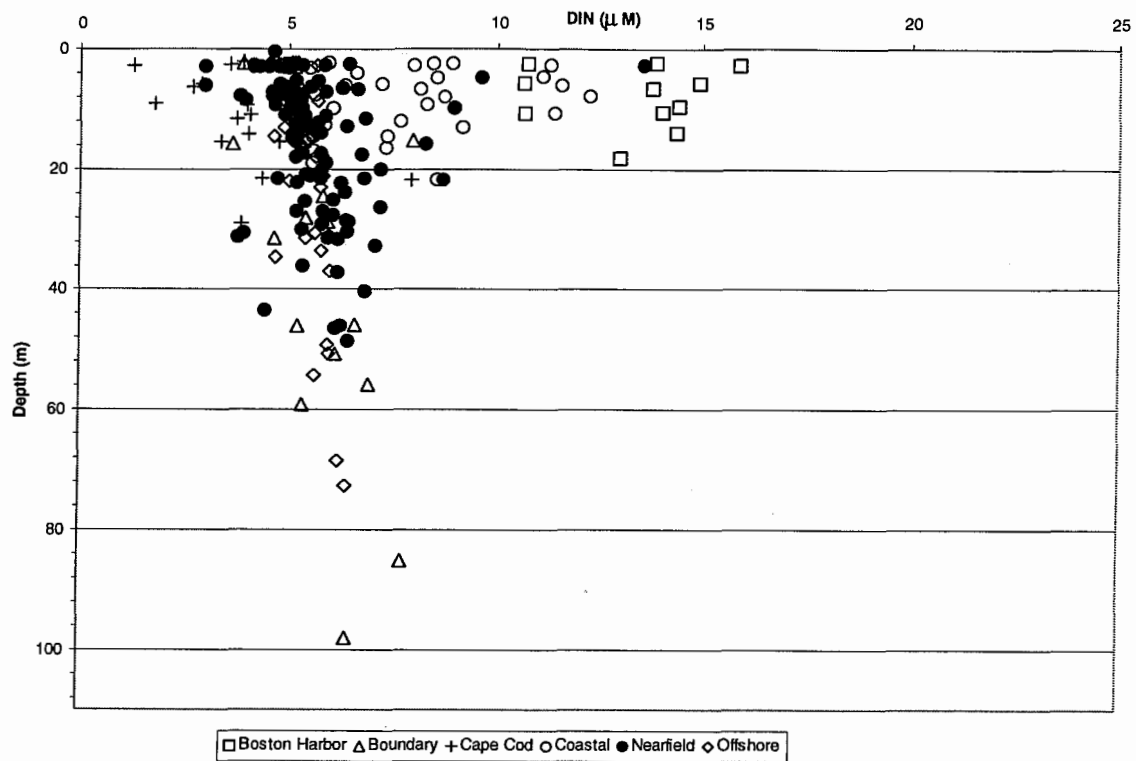


Figure D-46. Depth vs. Nutrient Plots for Farfield Survey WF984, (Apr 98)

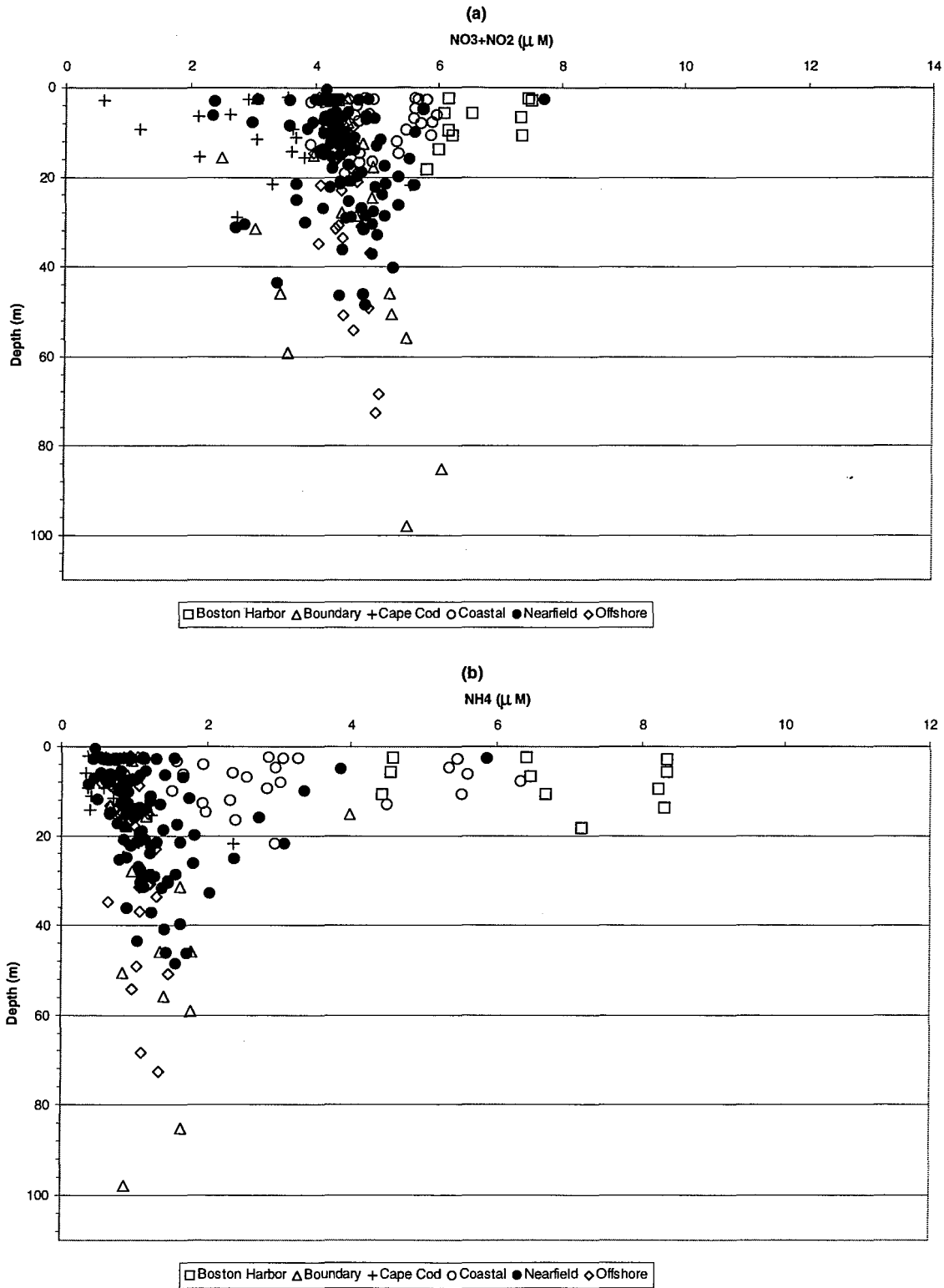


Figure D-47. Depth vs. Nutrient Plots for Farfield Survey WF984, (Apr 98)

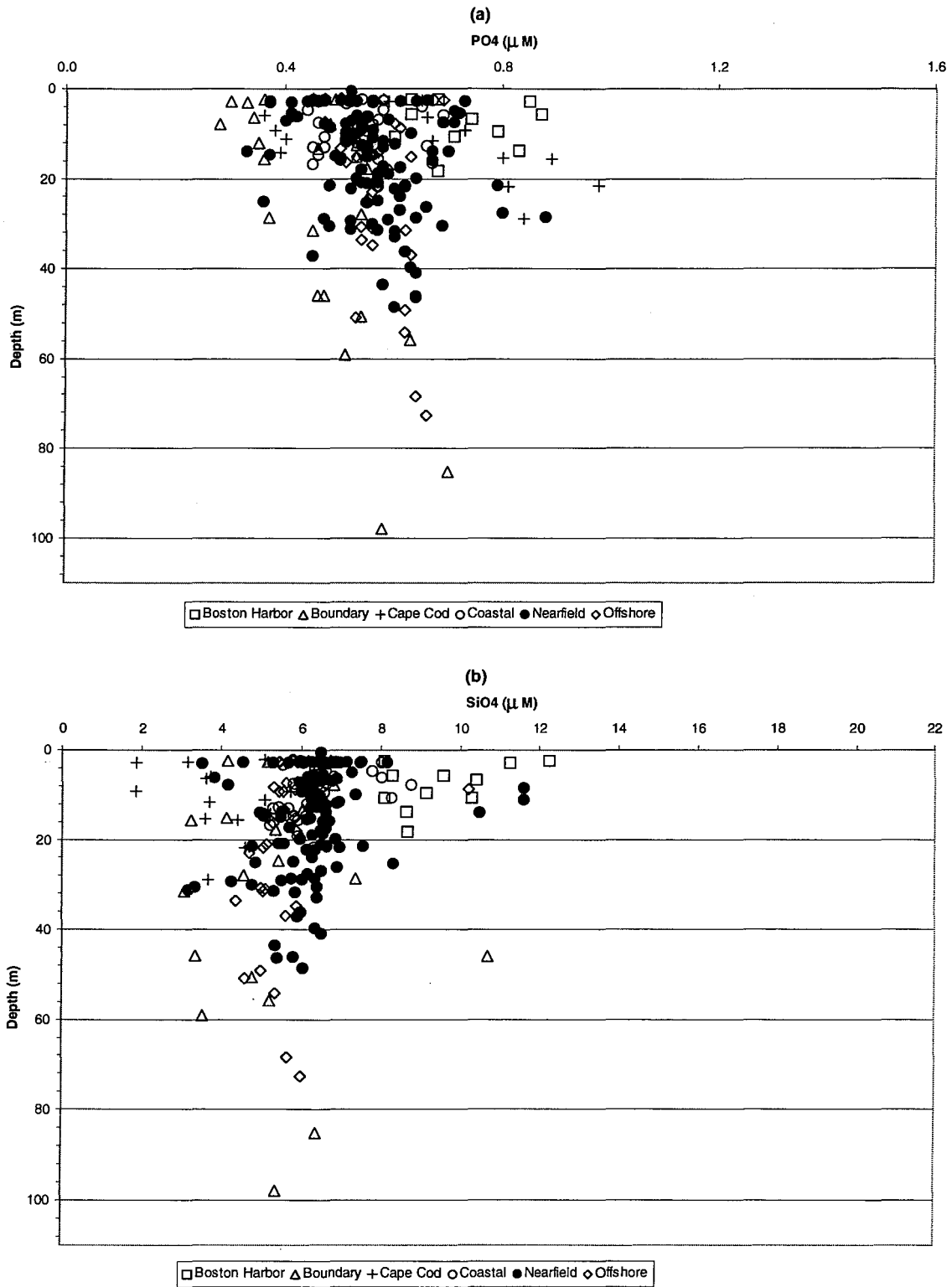


Figure D-48. Depth vs. Nutrient Plots for Farfield Survey WF984, (Apr 98)

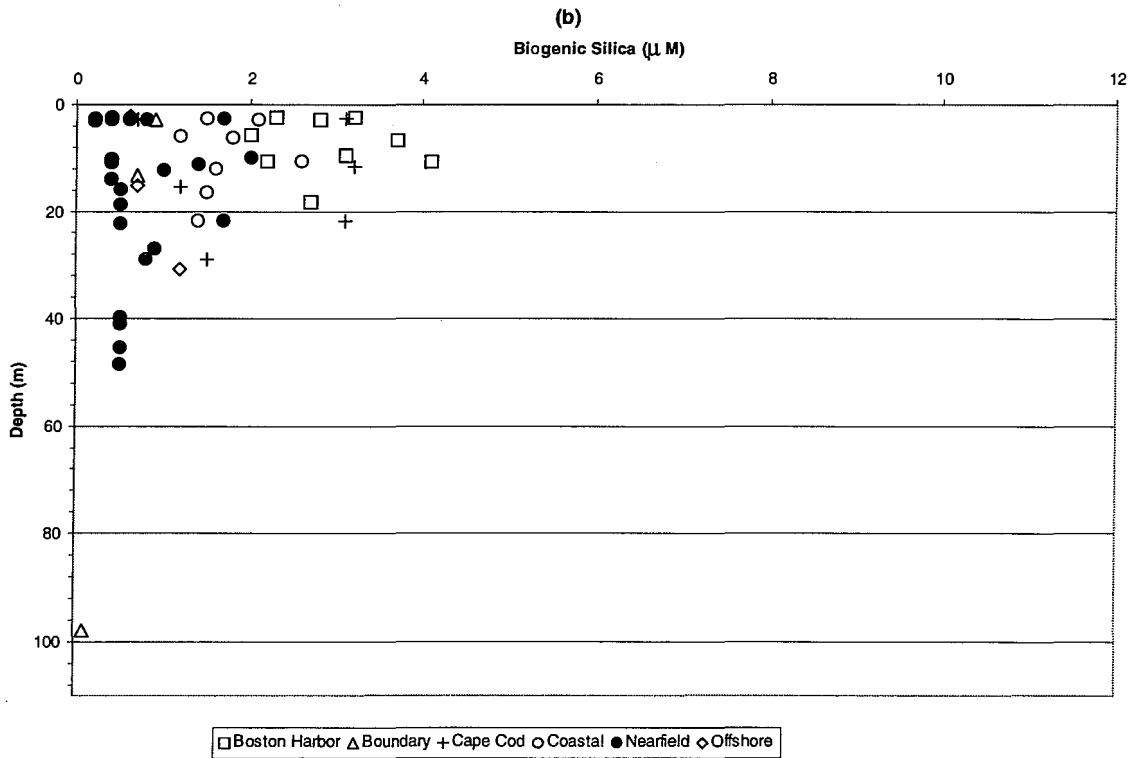
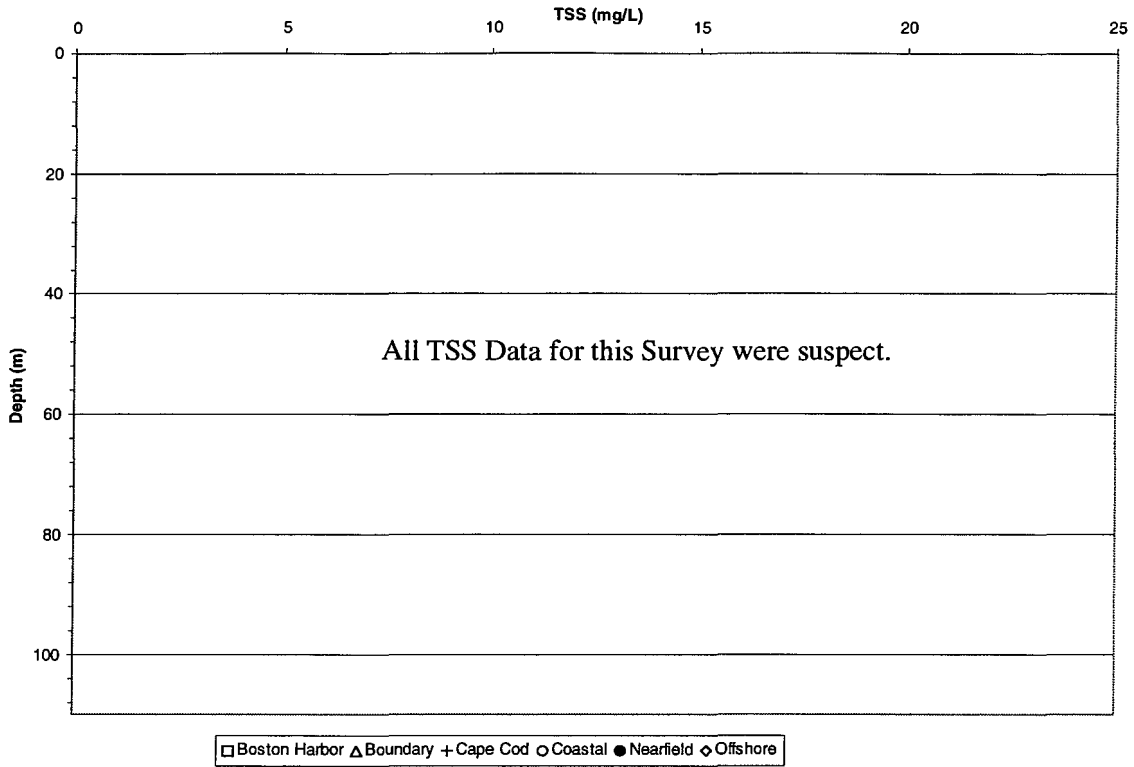


Figure D-49. Depth vs. Nutrient Plots for Farfield Survey WF984, (Apr 98)

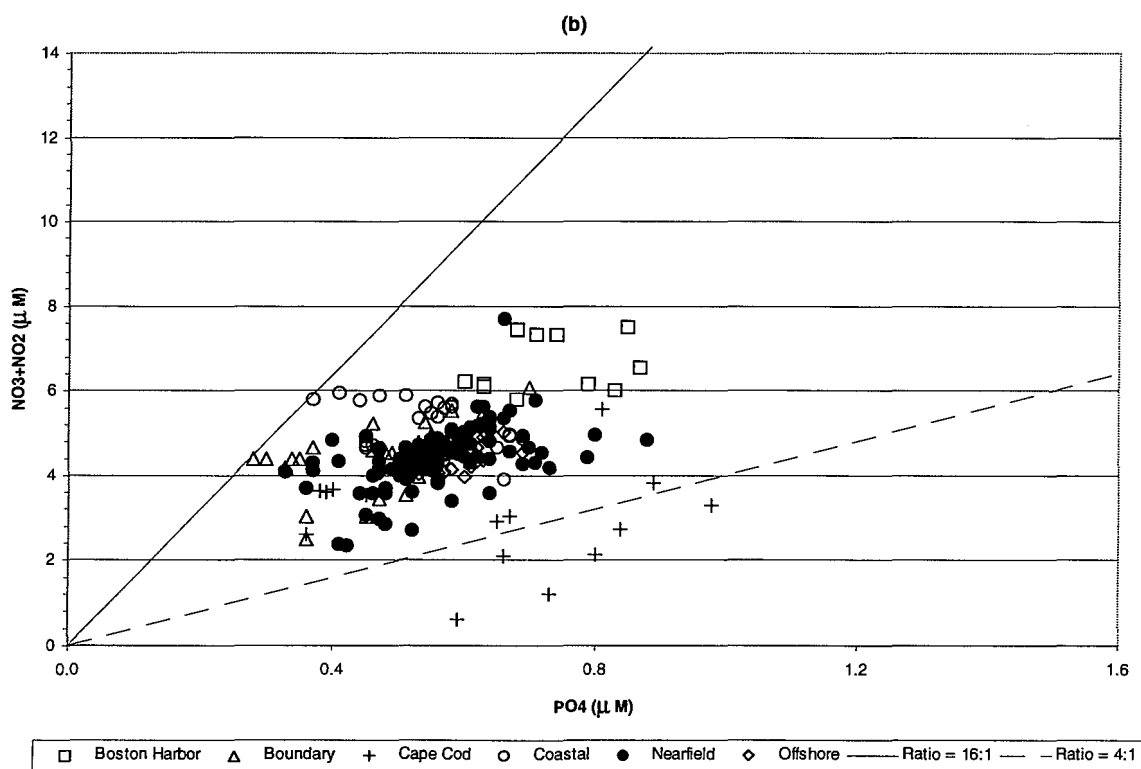
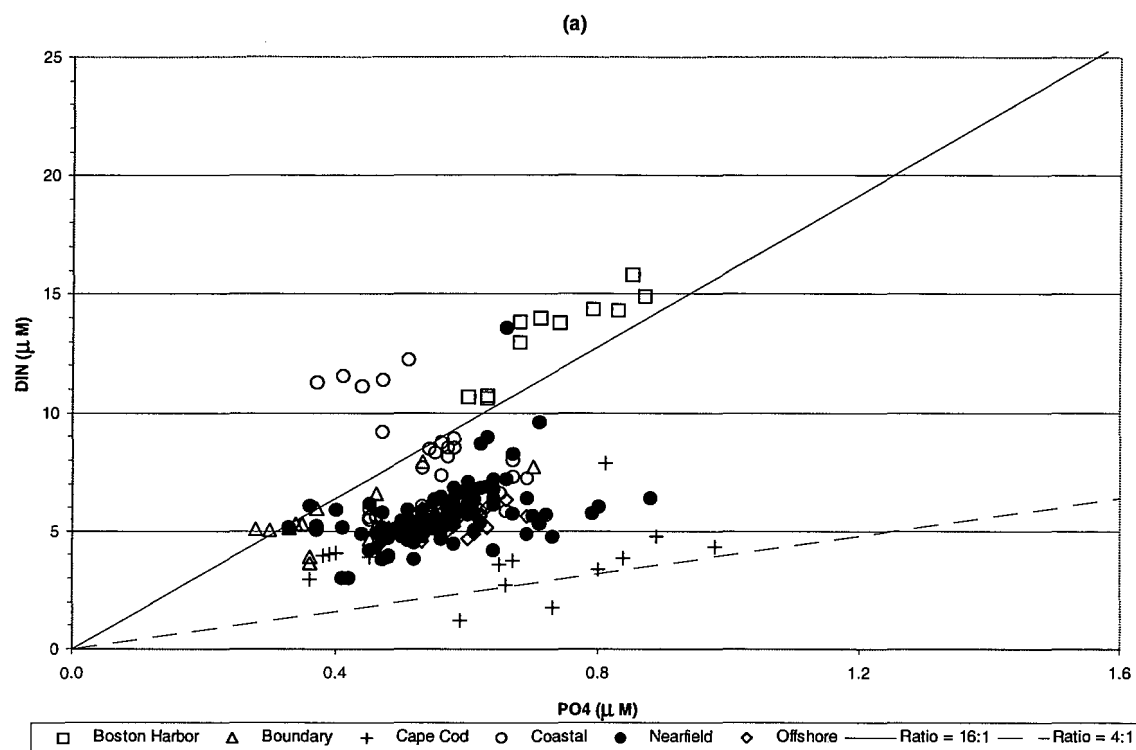


Figure D-50. Nutrient vs. Nutrient Plots for Farfield Survey WF984, (Apr 98)

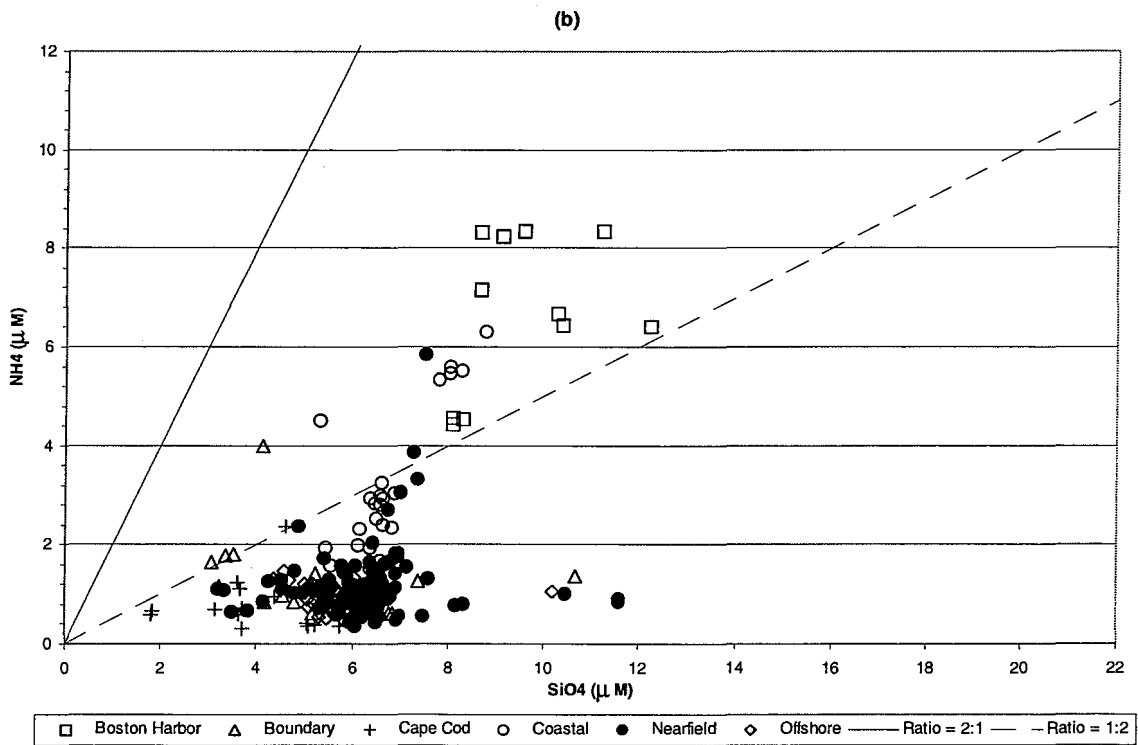
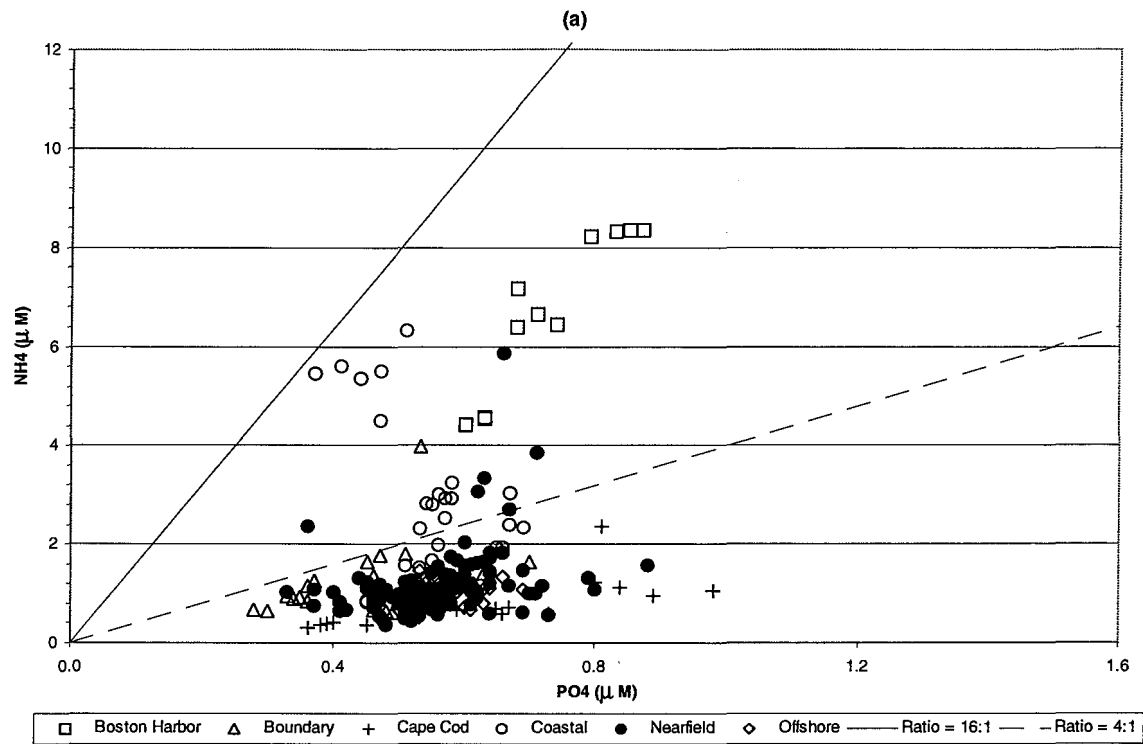


Figure D-51. Nutrient vs. Nutrient Plots for Farfield Survey WF984, (Apr 98)

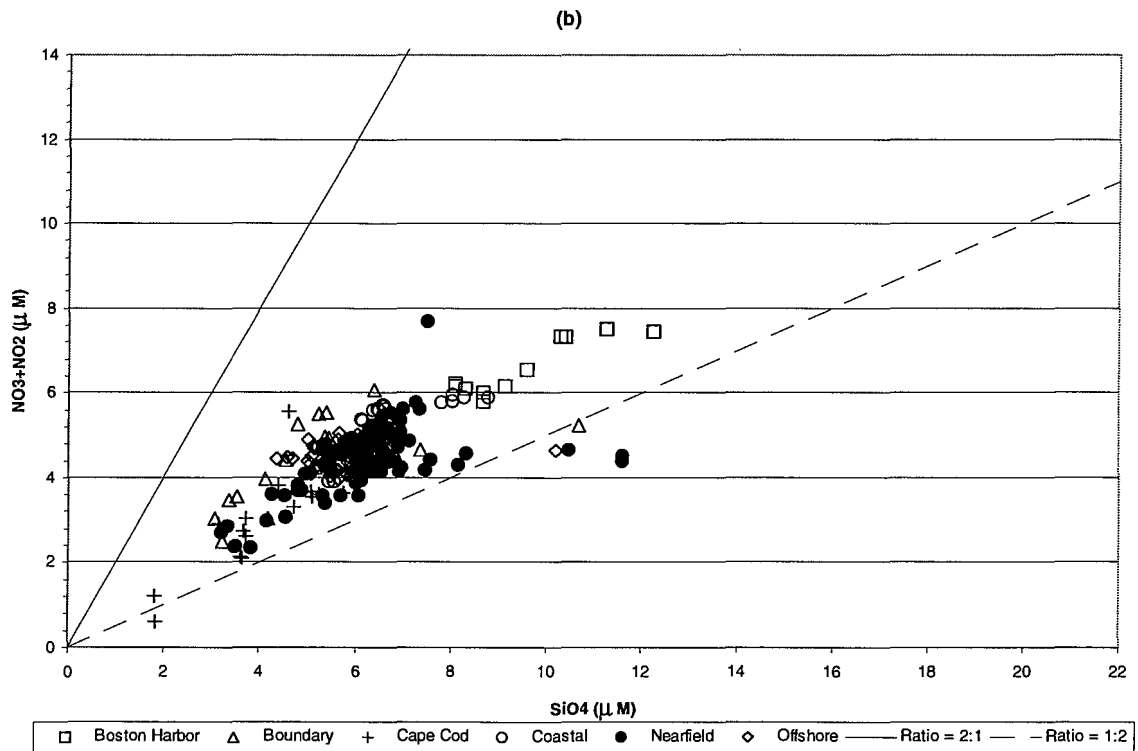
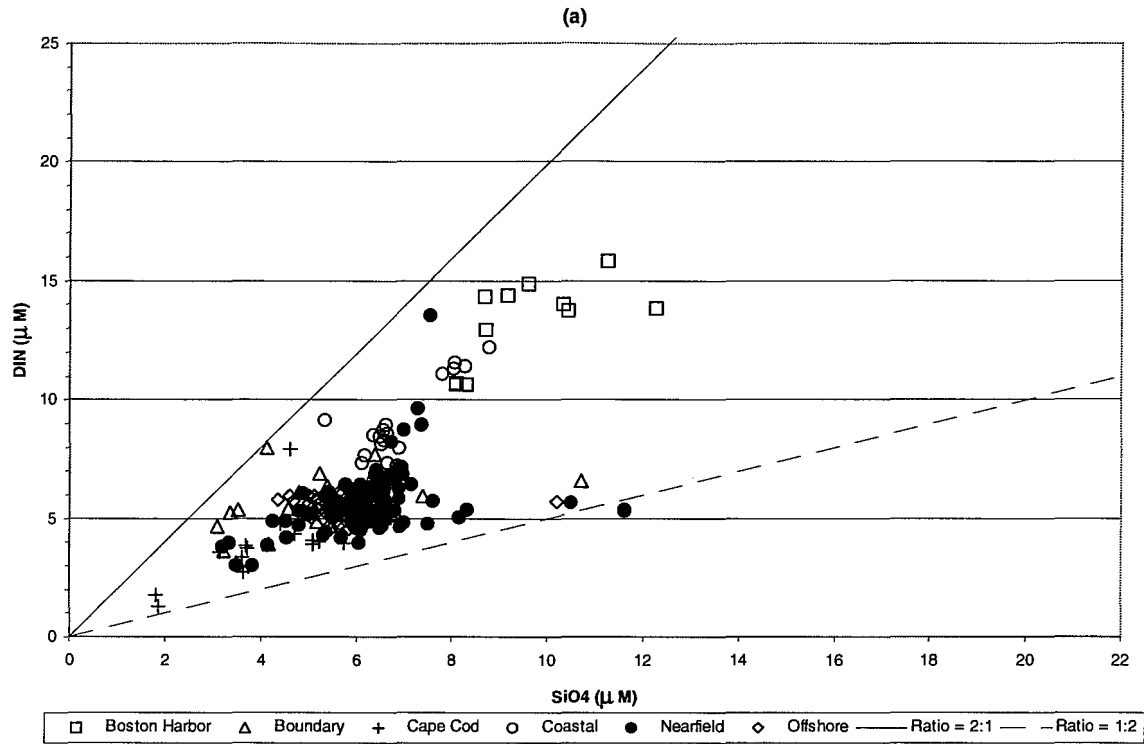


Figure D-52. Nutrient vs. Nutrient Plots for Farfield Survey WF984, (Apr 98)

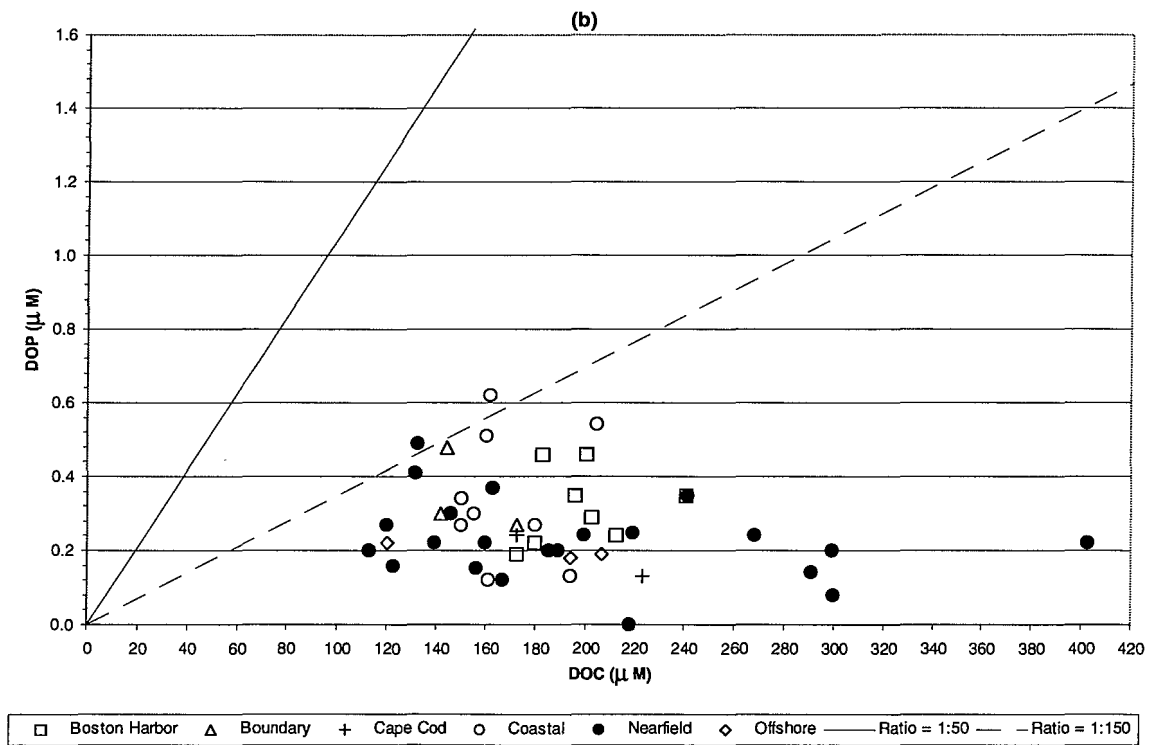
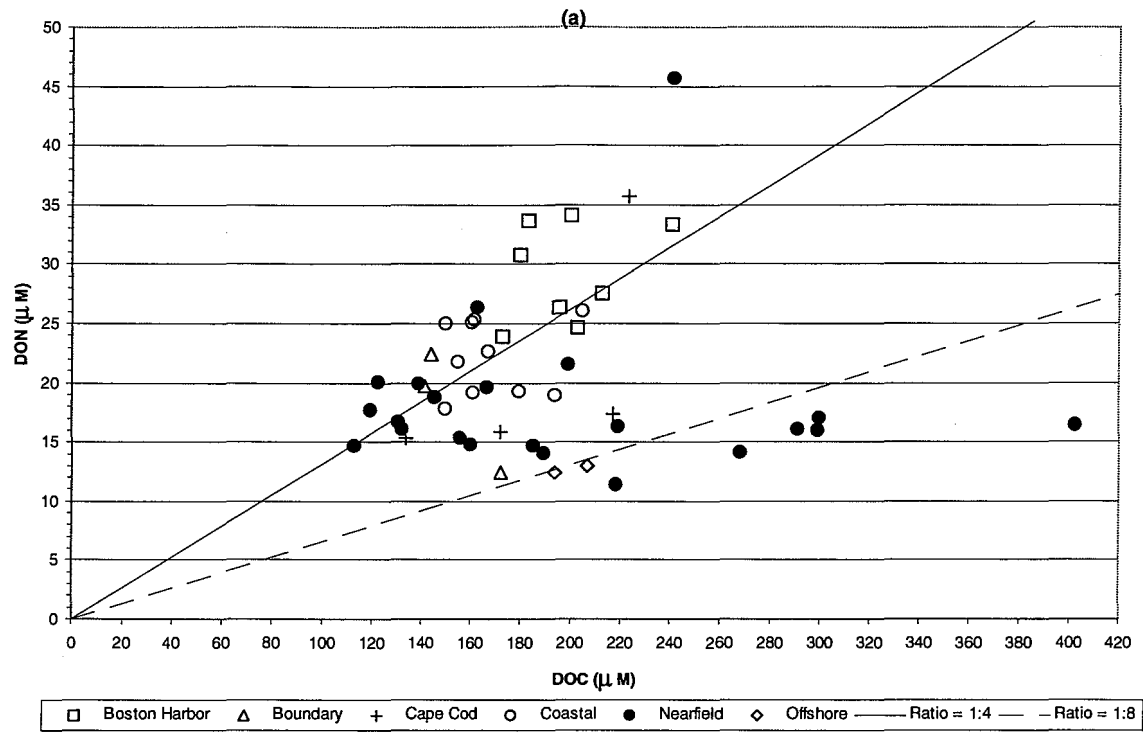


Figure D-53. Nutrient vs. Nutrient Plots for Farfield Survey WF984, (Apr 98)

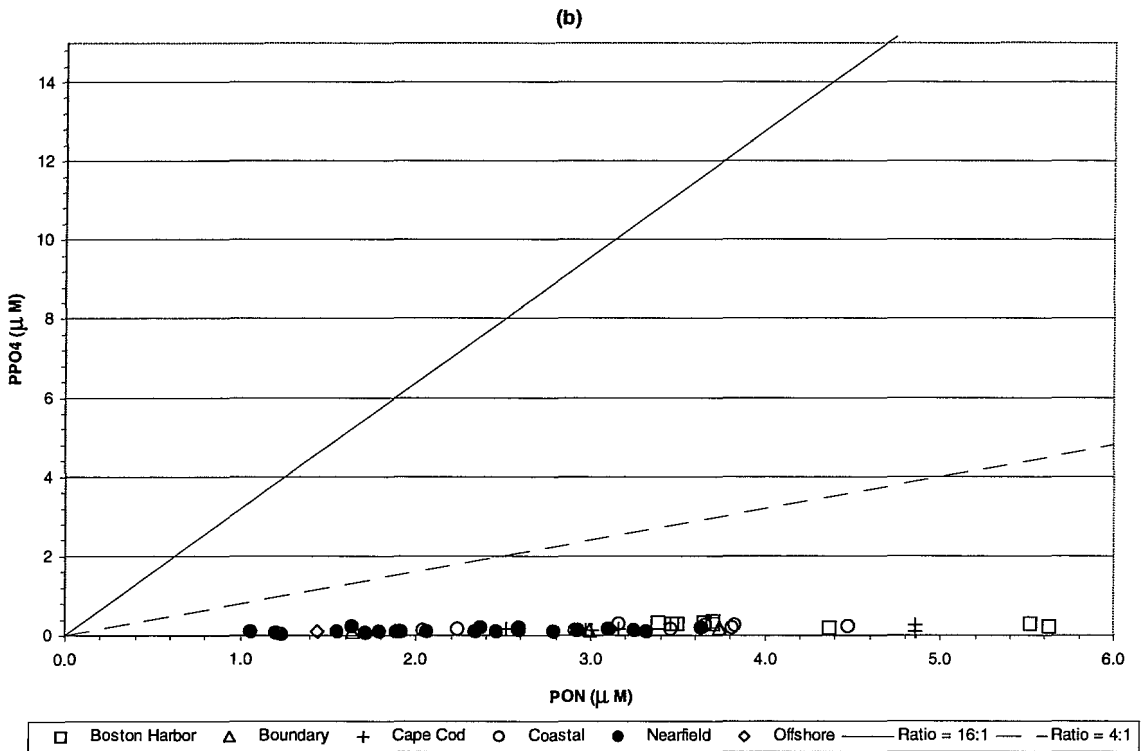
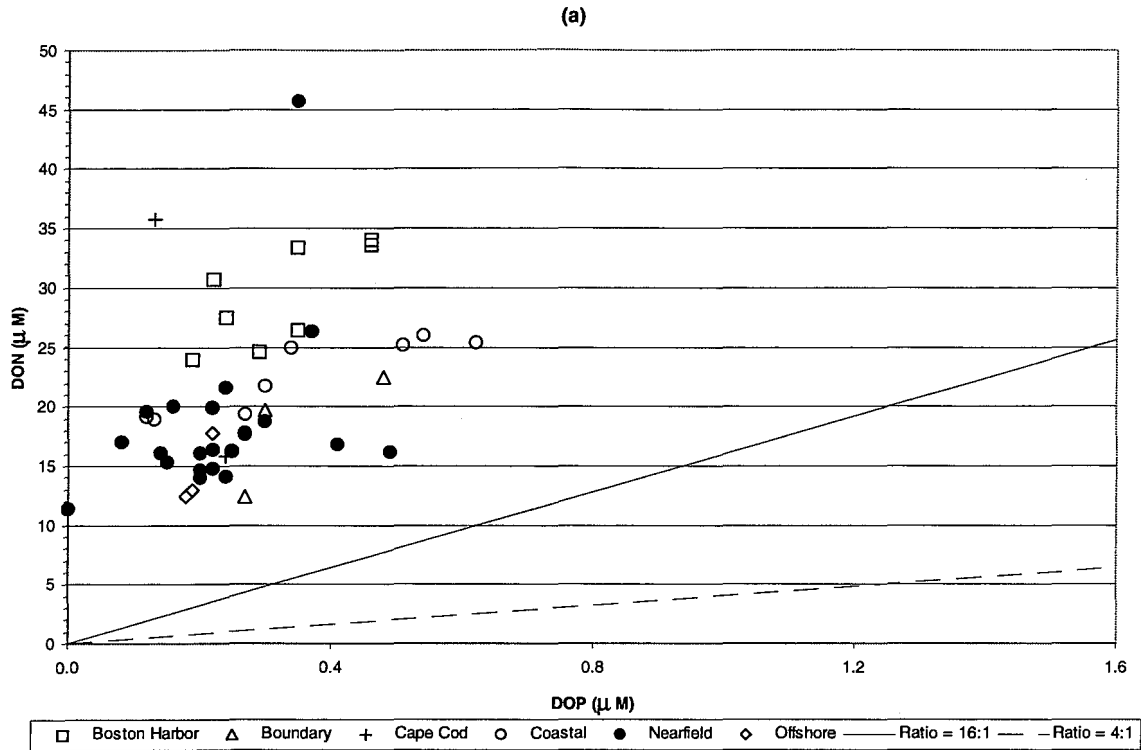


Figure D-54. Nutrient vs. Nutrient Plots for Farfield Survey WF984, (Apr 98)

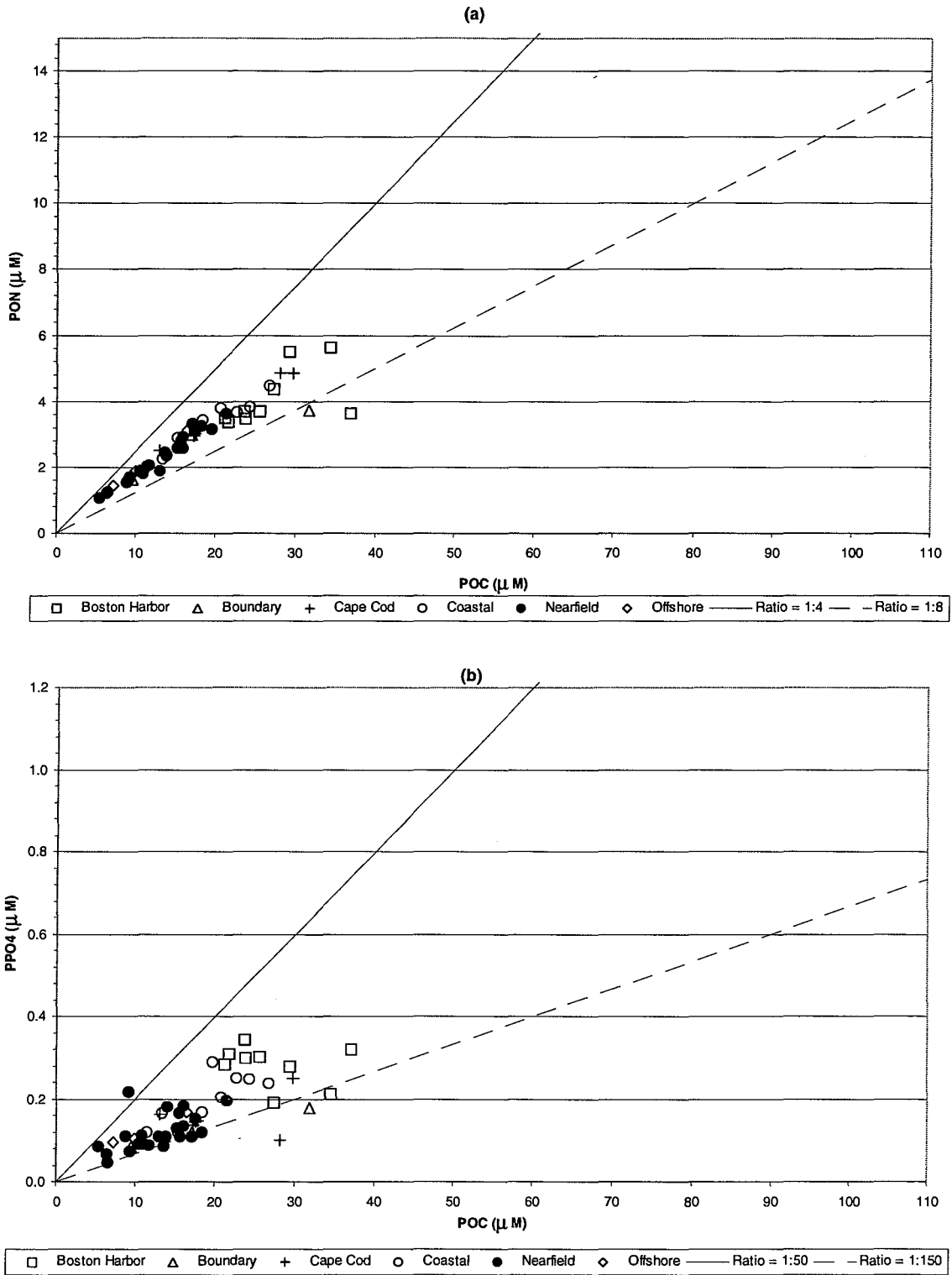


Figure D-55. Nutrient vs. Nutrient Plots for Farfield Survey WF984, (Apr 98)

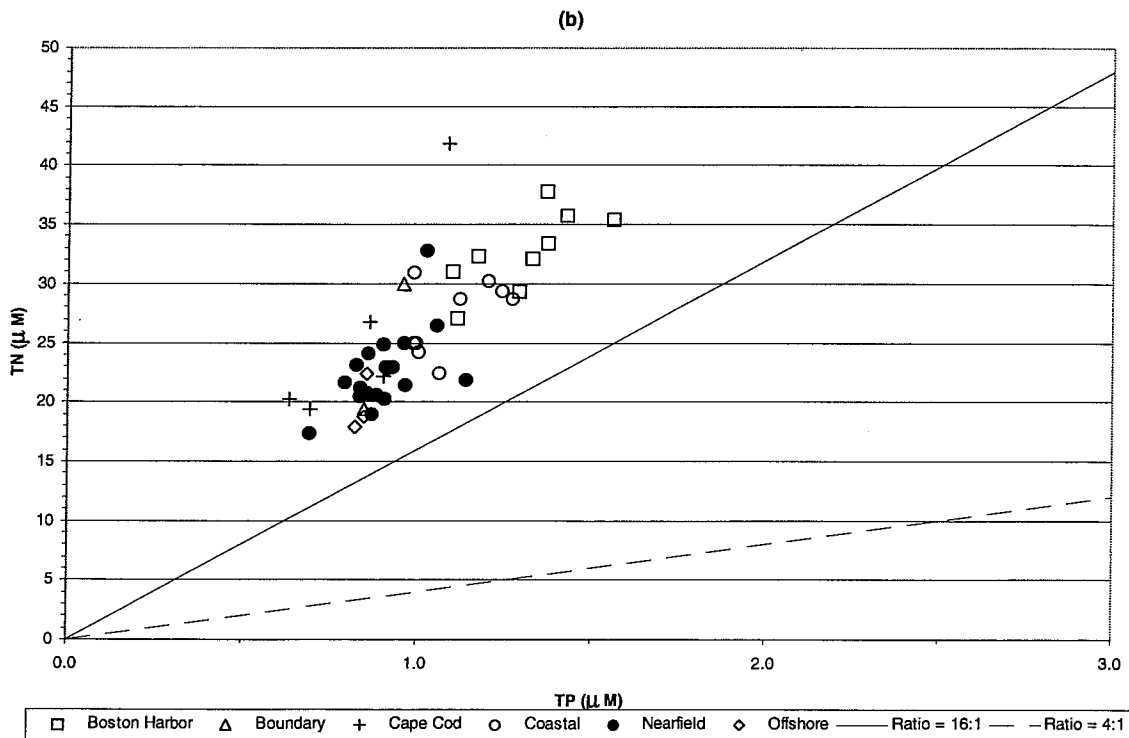
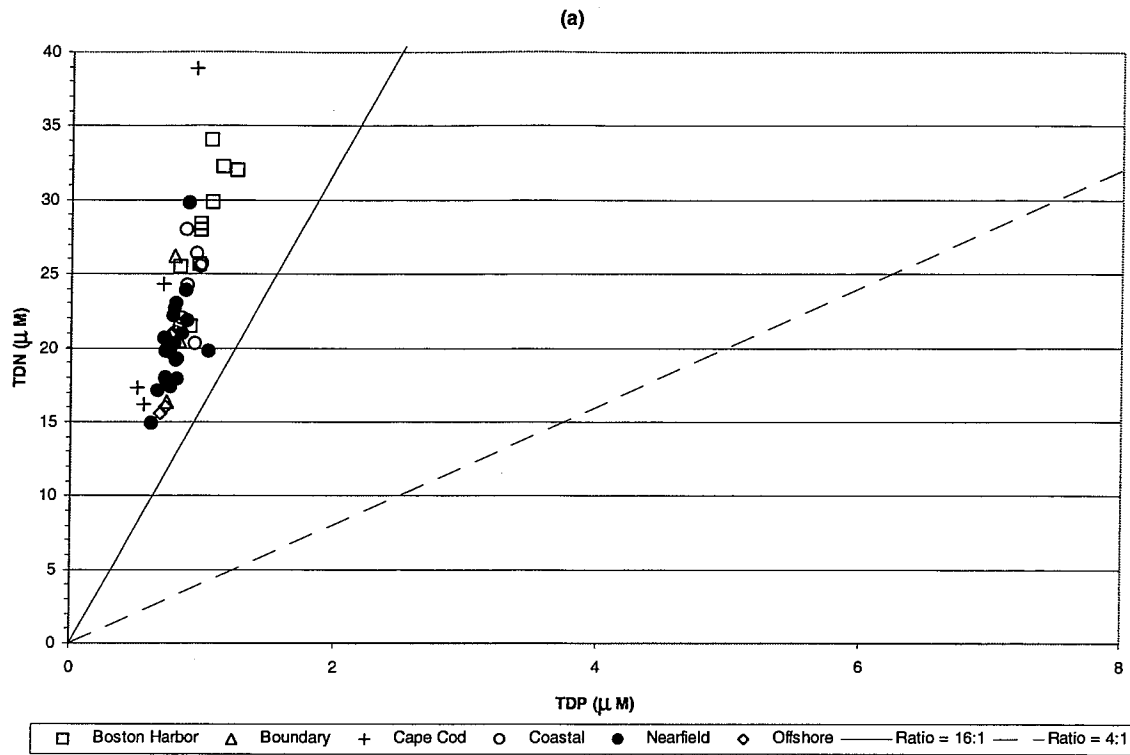


Figure D-56. Nutrient vs. Nutrient Plots for Farfield Survey WF984, (Apr 98)

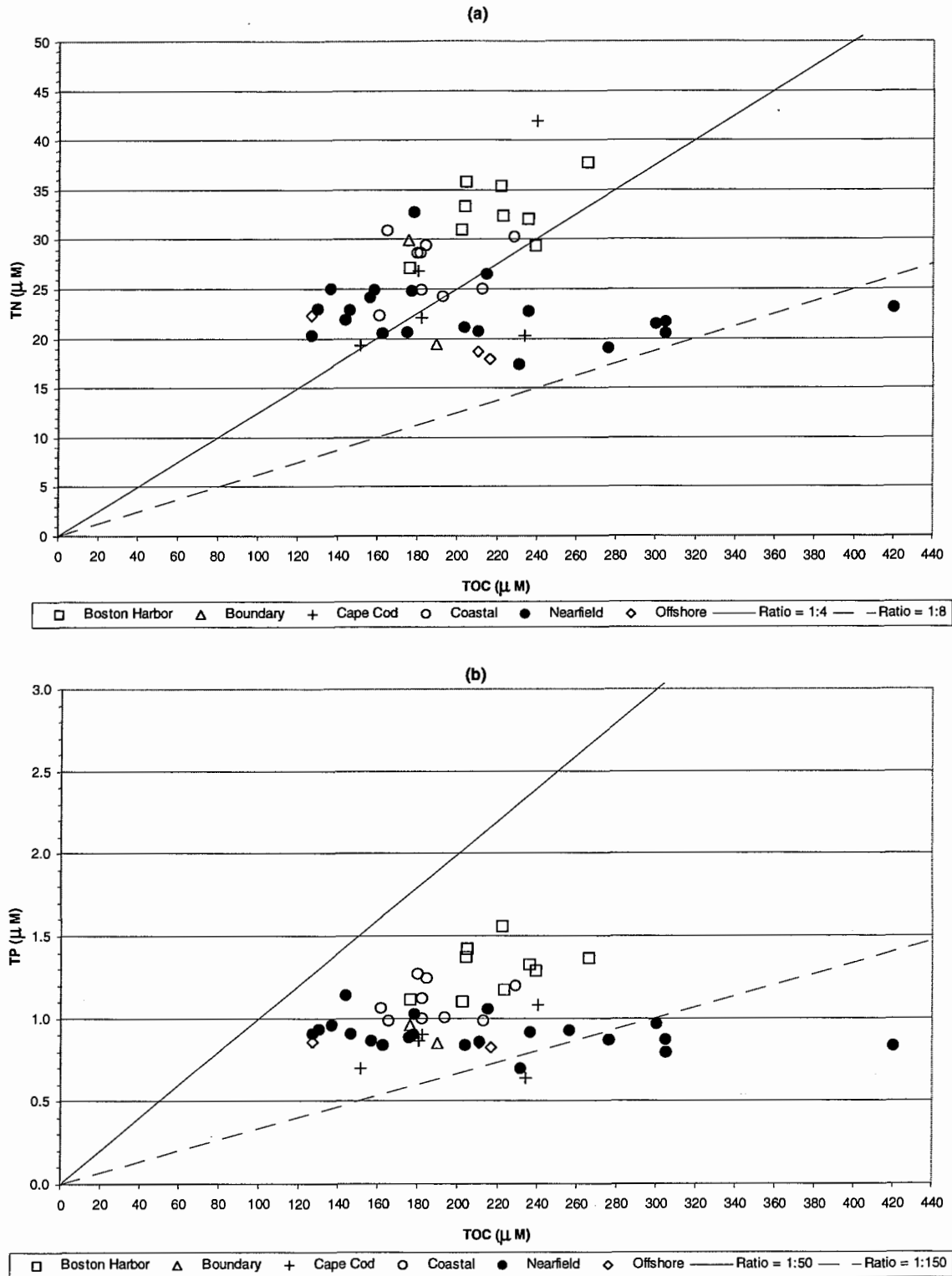


Figure D-57. Nutrient vs. Nutrient Plots for Farfield Survey WF984, (Apr 98)

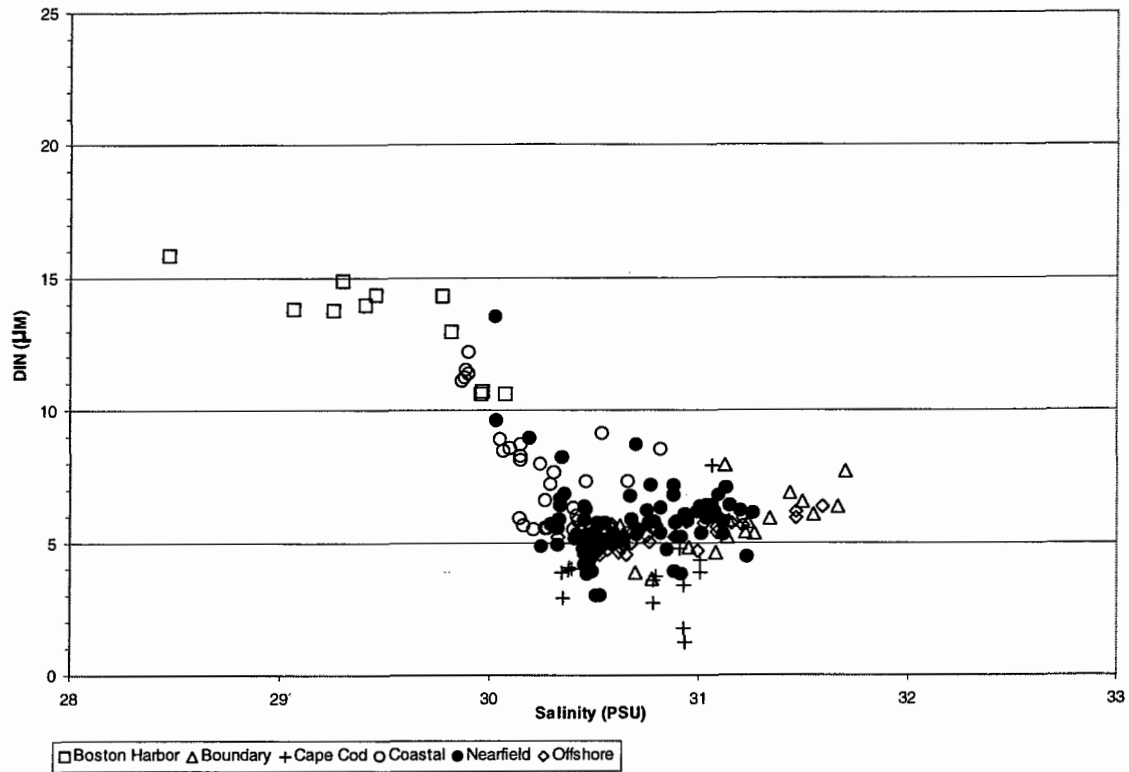


Figure D-58. Nutrient vs. Salinity Plots for Farfield Survey WF984, (Apr 98)

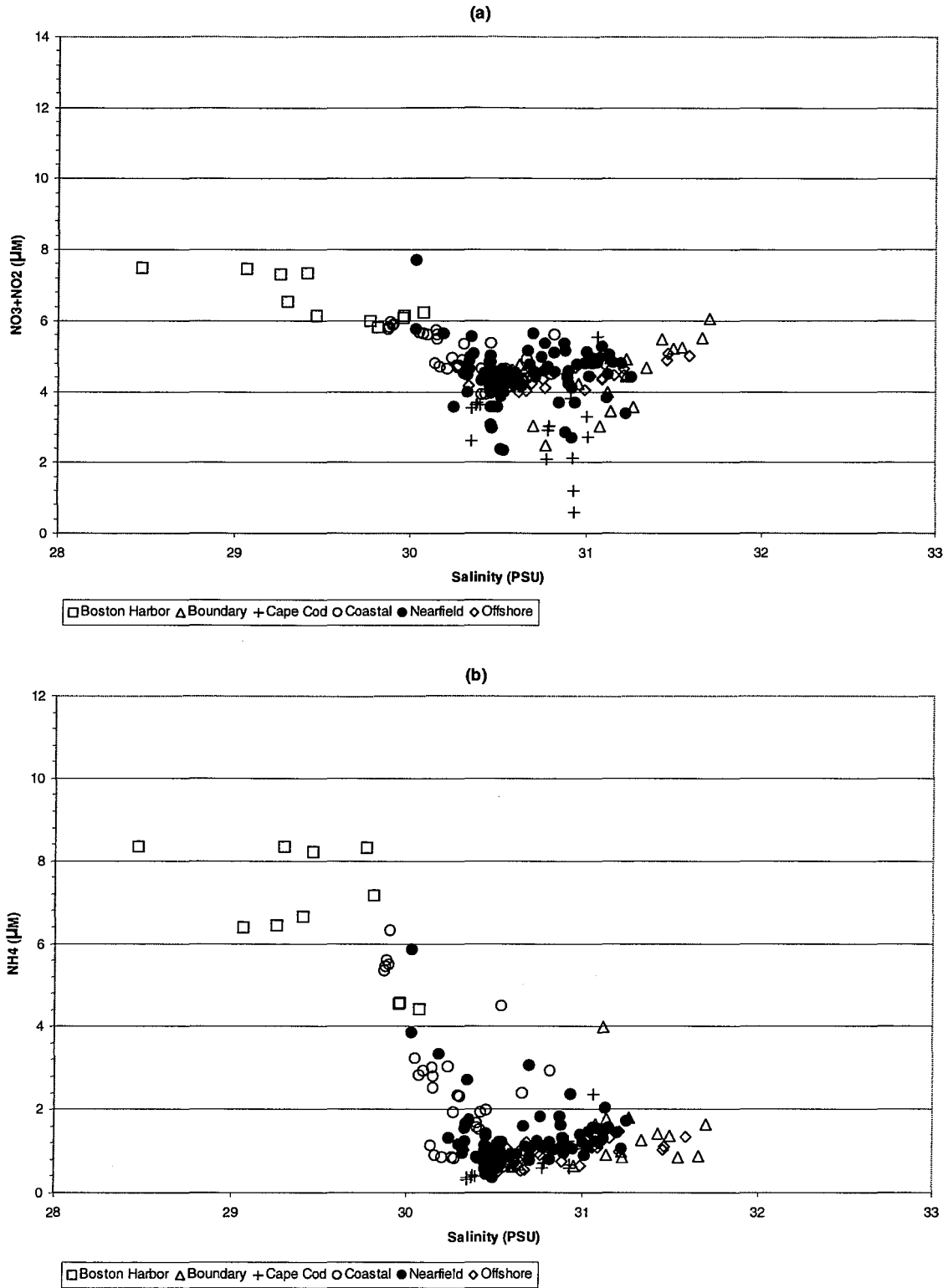


Figure D-59. Nutrient vs. Salinity Plots for Farfield Survey WF984, (Apr 98)

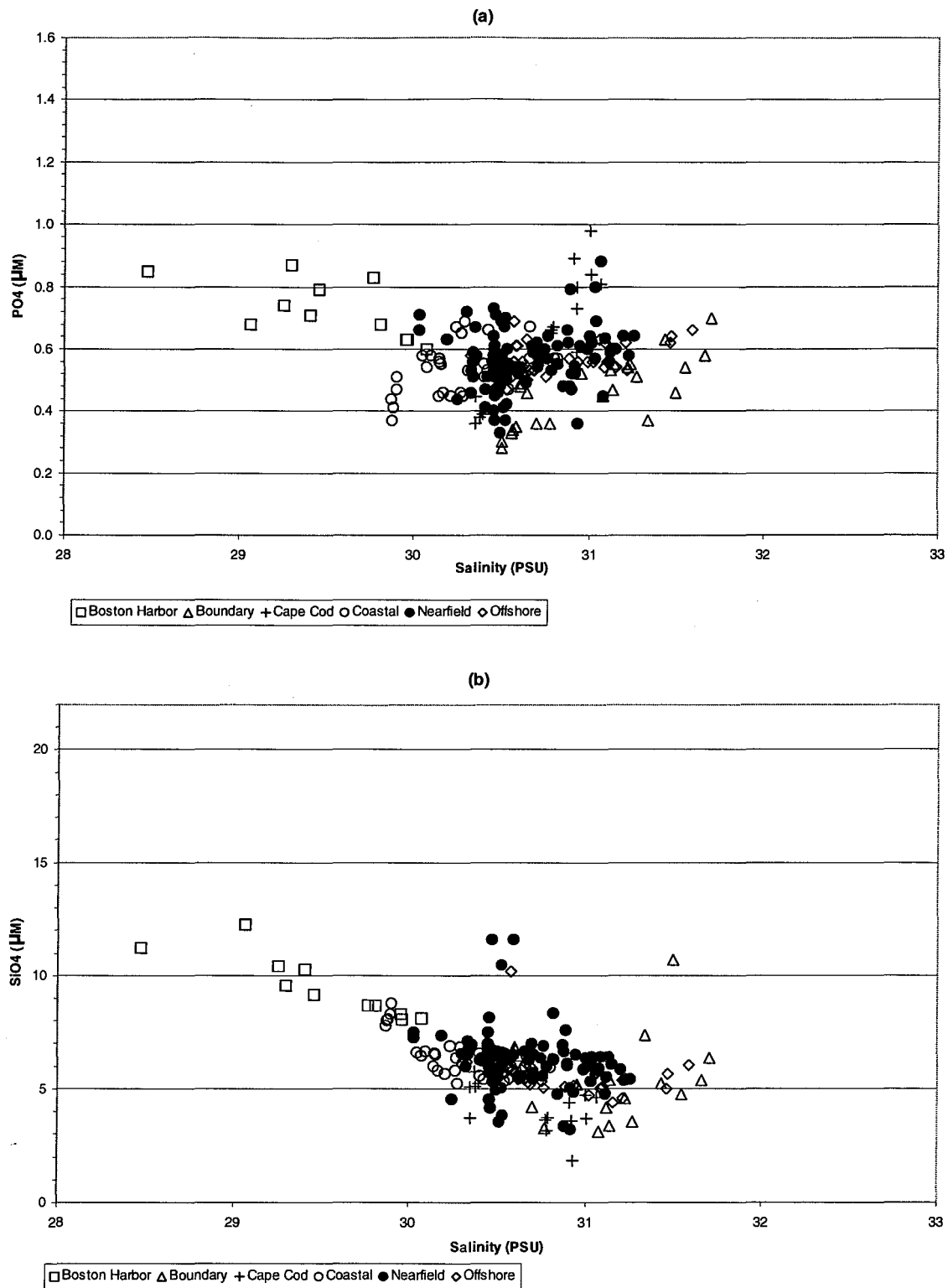


Figure D-60. Nutrient vs. Salinity Plots for Farfield Survey WF984, (Apr 98)

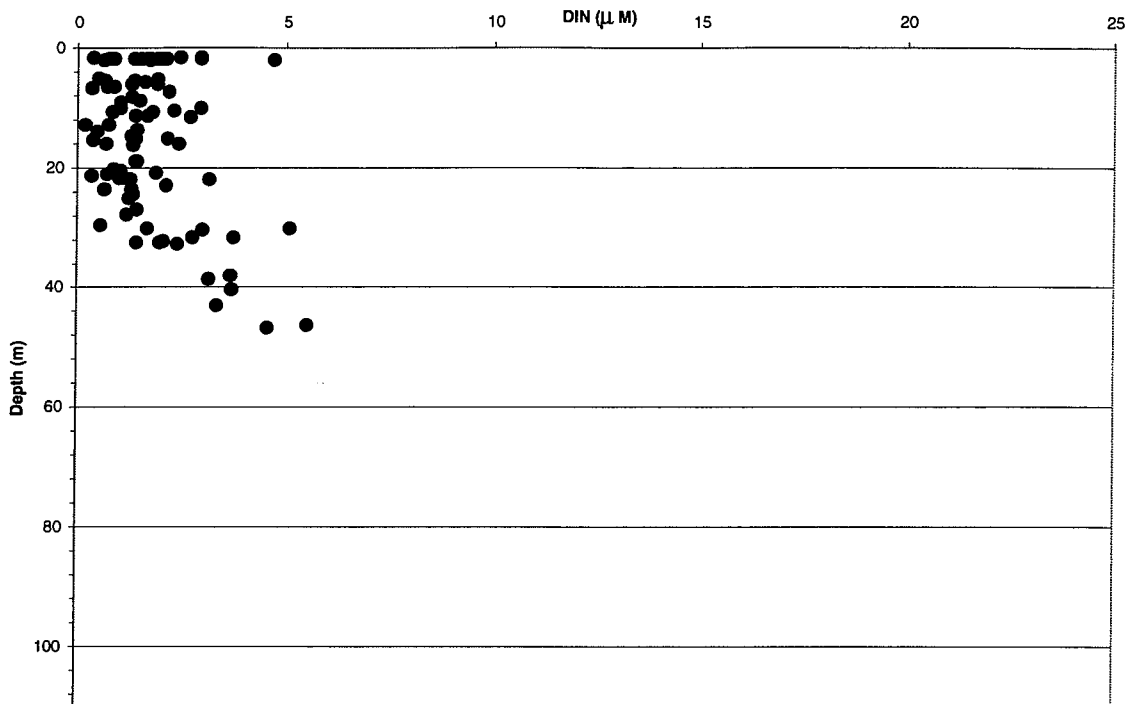


Figure D-61. Depth vs. Nutrient Plots for Nearfield Survey WN985, (Apr 98)

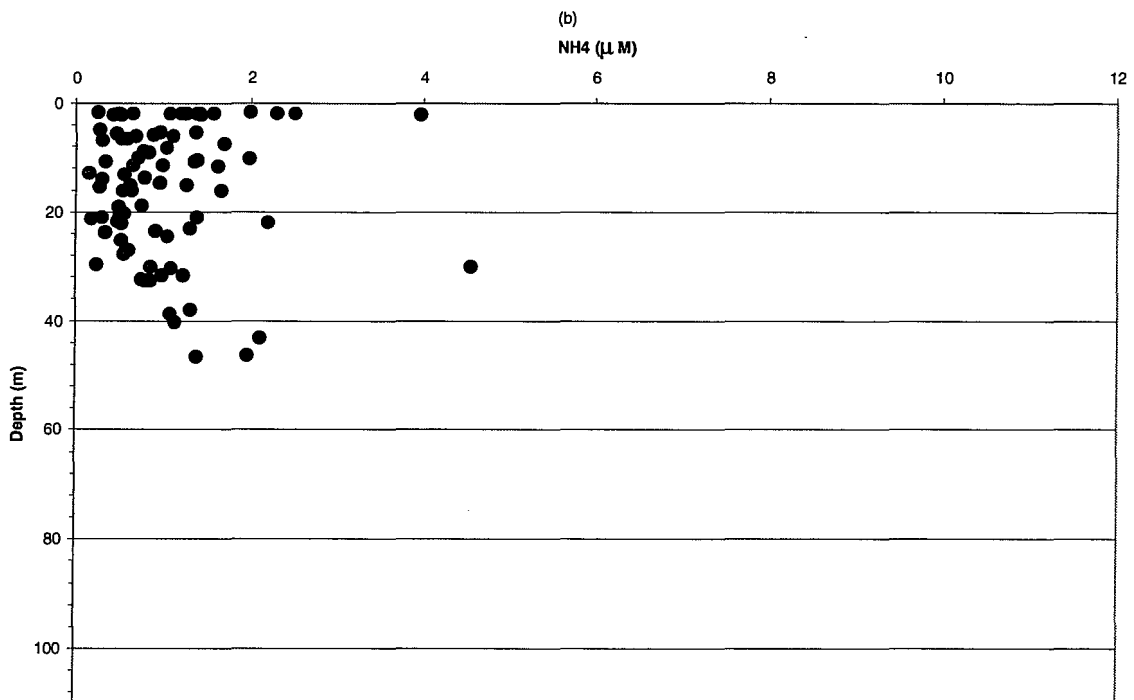
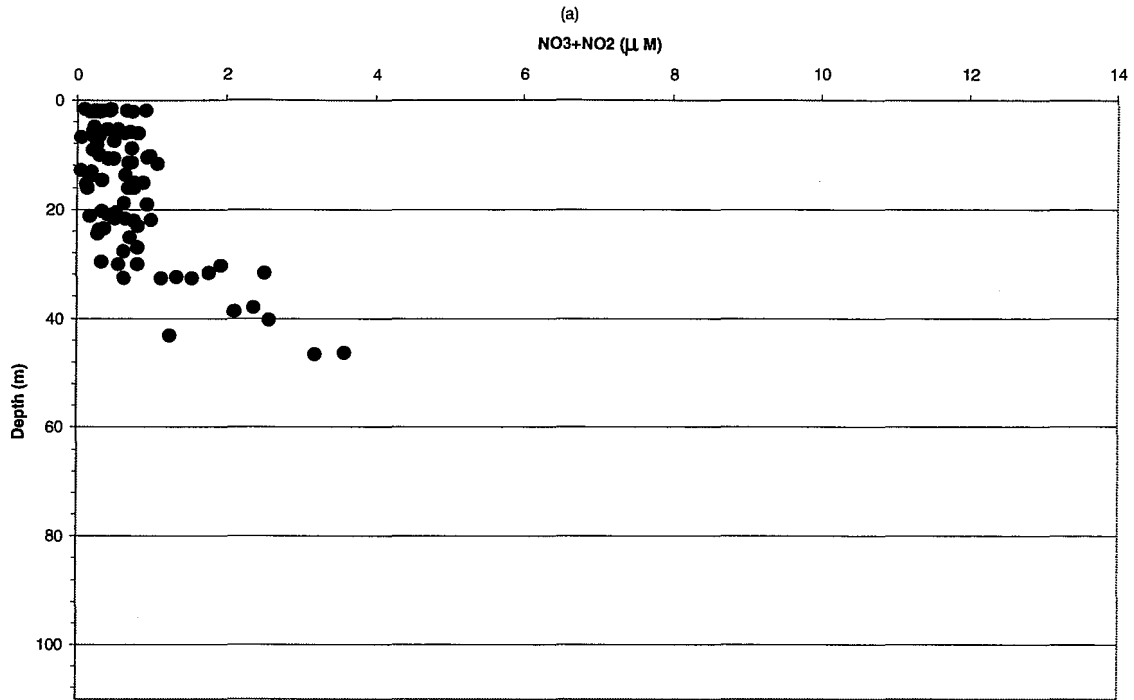


Figure D-62. Depth vs. Nutrient Plots for Nearfield Survey WN985, (Apr 98)

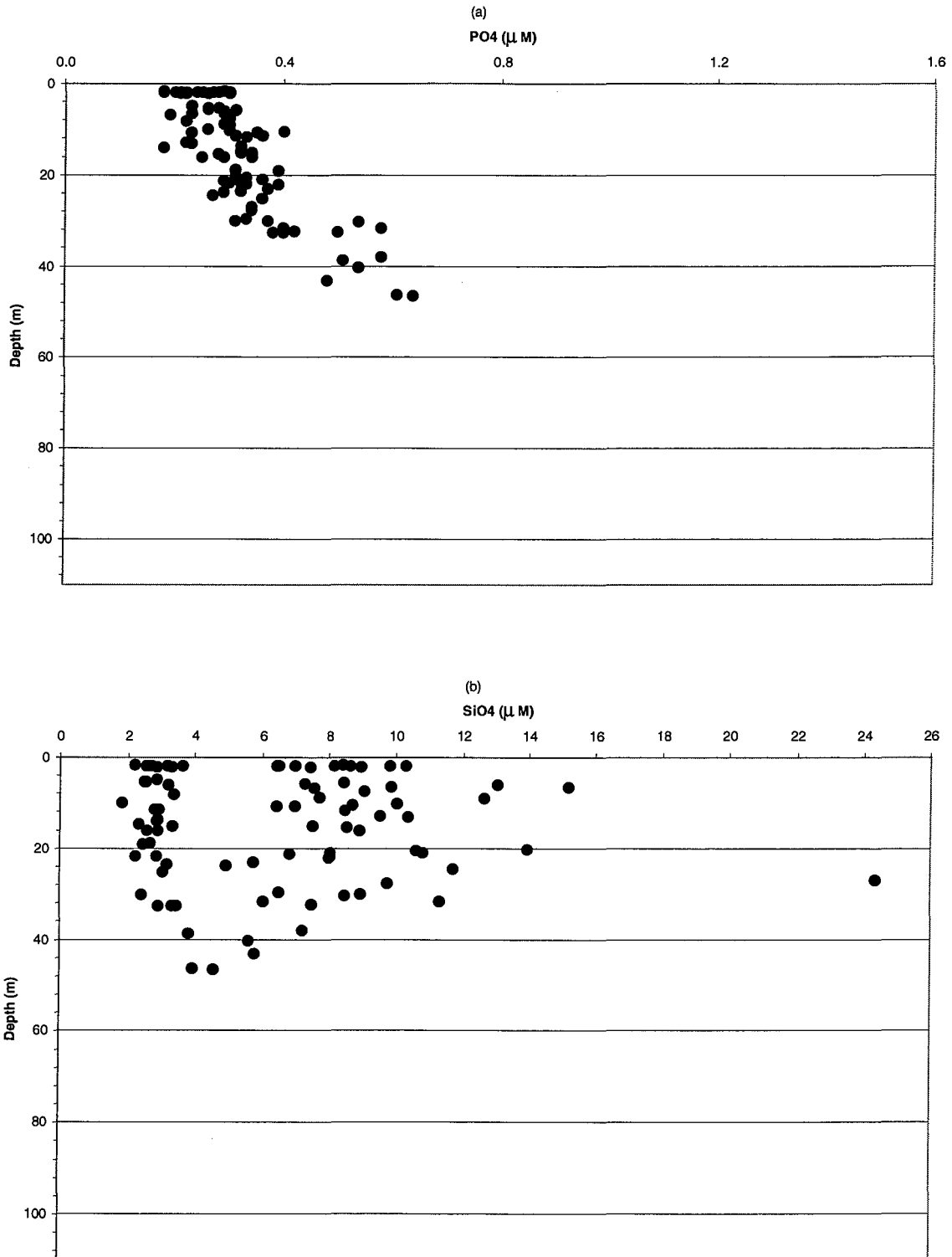


Figure D-63. Depth vs. Nutrient Plots for Nearfield Survey WN985, (Apr 98)

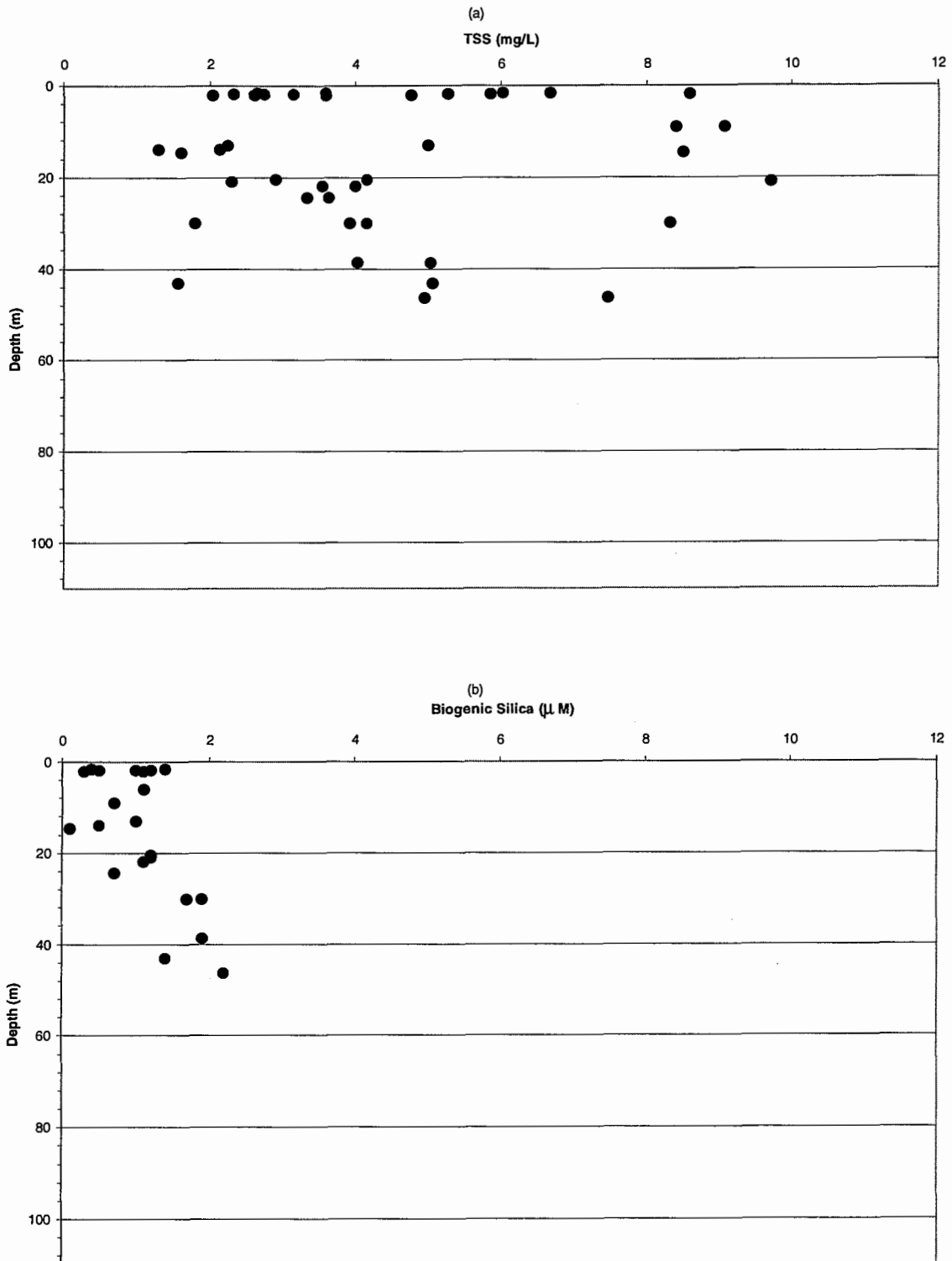


Figure D-64. Depth vs. Nutrient Plots for Nearfield Survey WN985, (Apr 98)

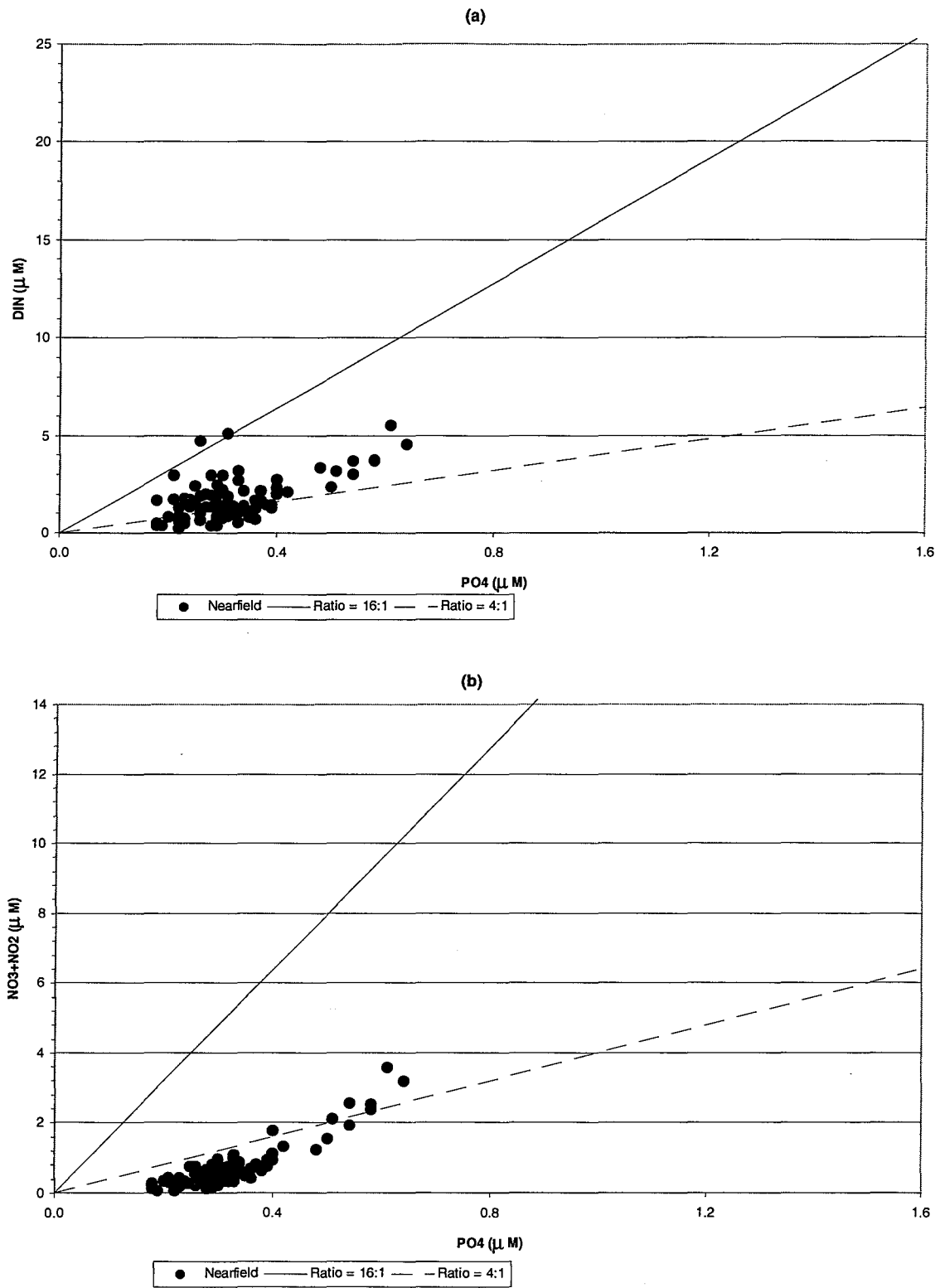


Figure D-65. Nutrient vs. Nutrient Plots for Nearfield Survey WN985, (Apr 98)

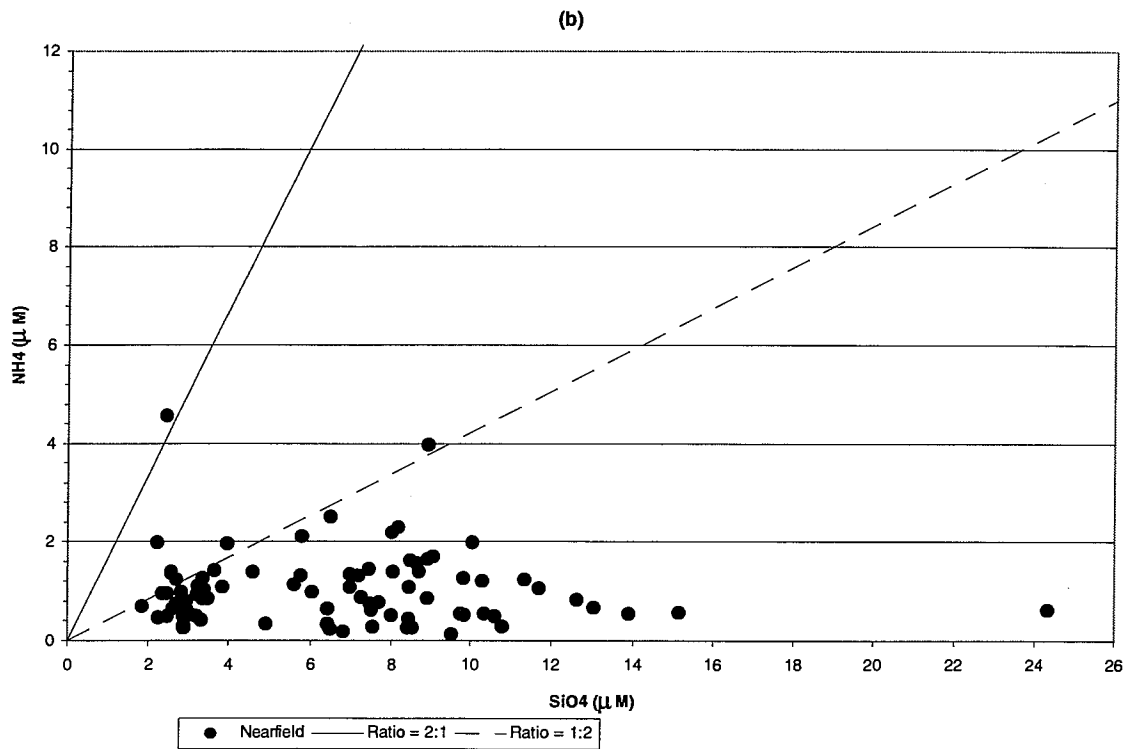
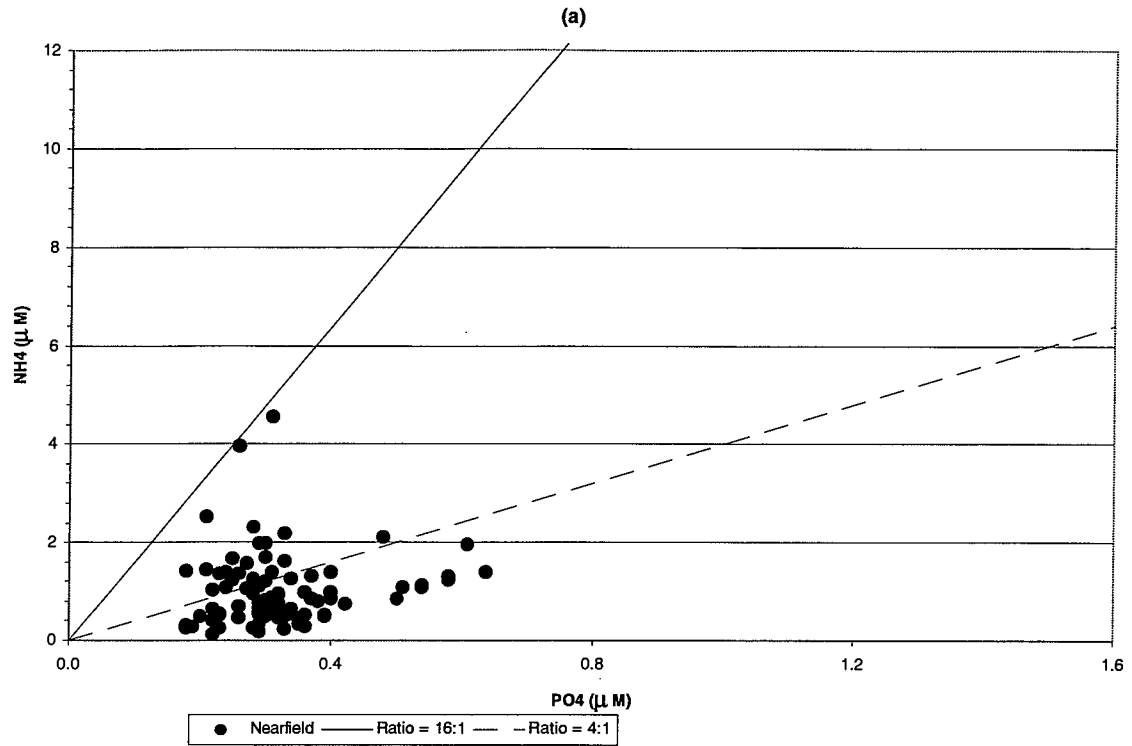


Figure D-66. Nutrient vs. Nutrient Plots for Nearfield Survey WN985, (Apr 98)

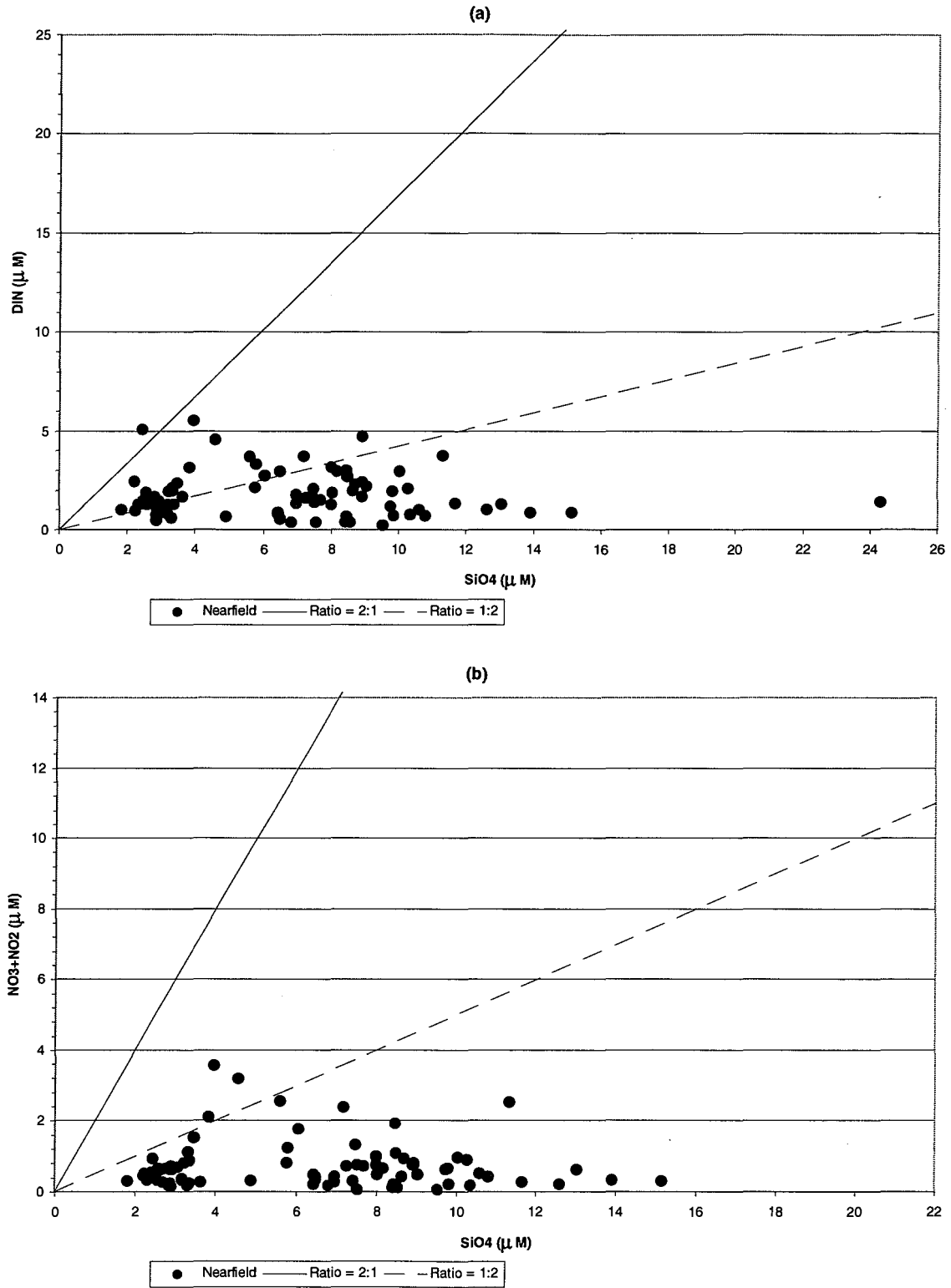


Figure D-67. Nutrient vs. Nutrient Plots for Nearfield Survey WN985, (Apr 98)

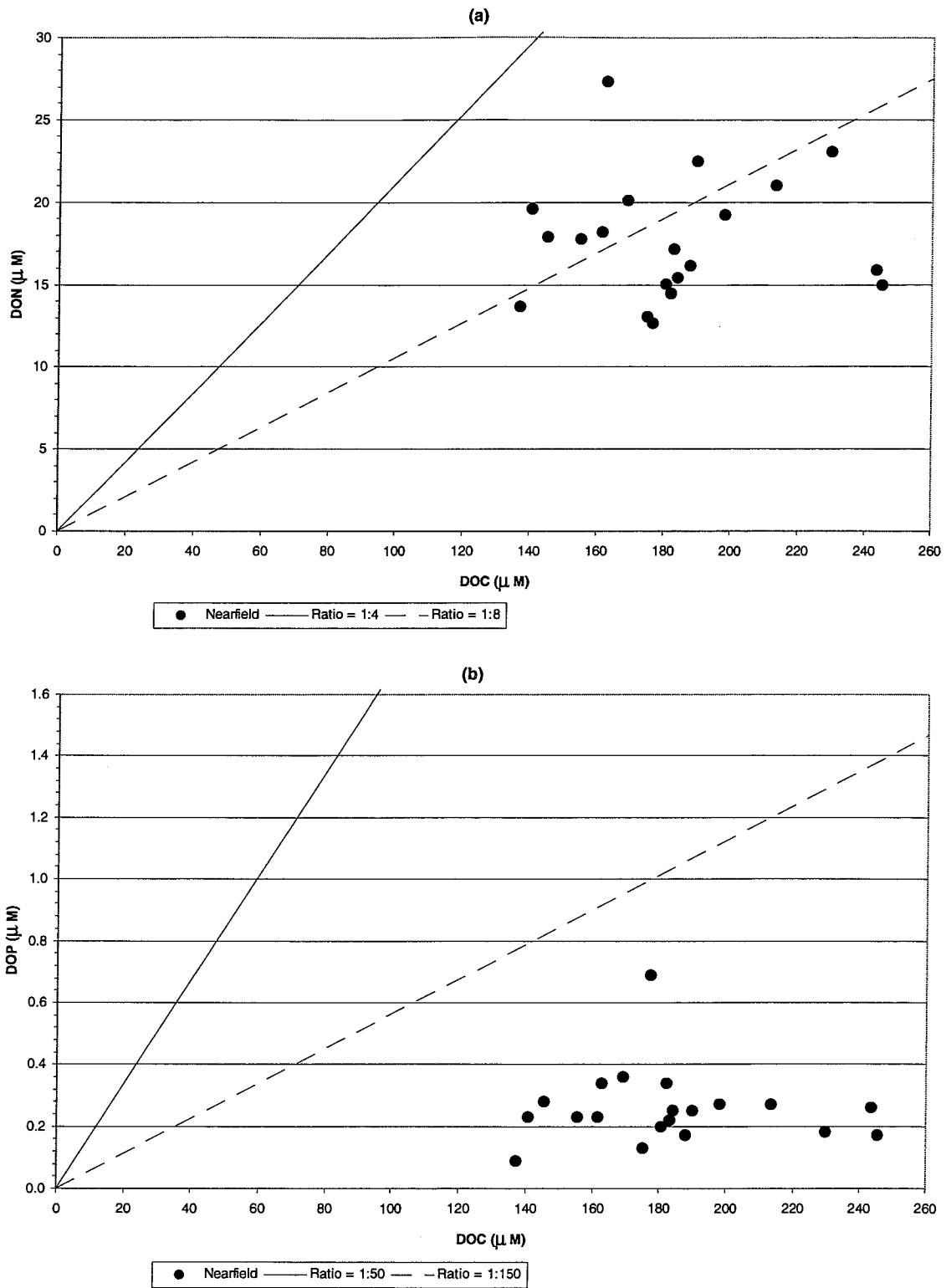


Figure D-68. Nutrient vs. Nutrient Plots for Nearfield Survey WN985, (Apr 98)

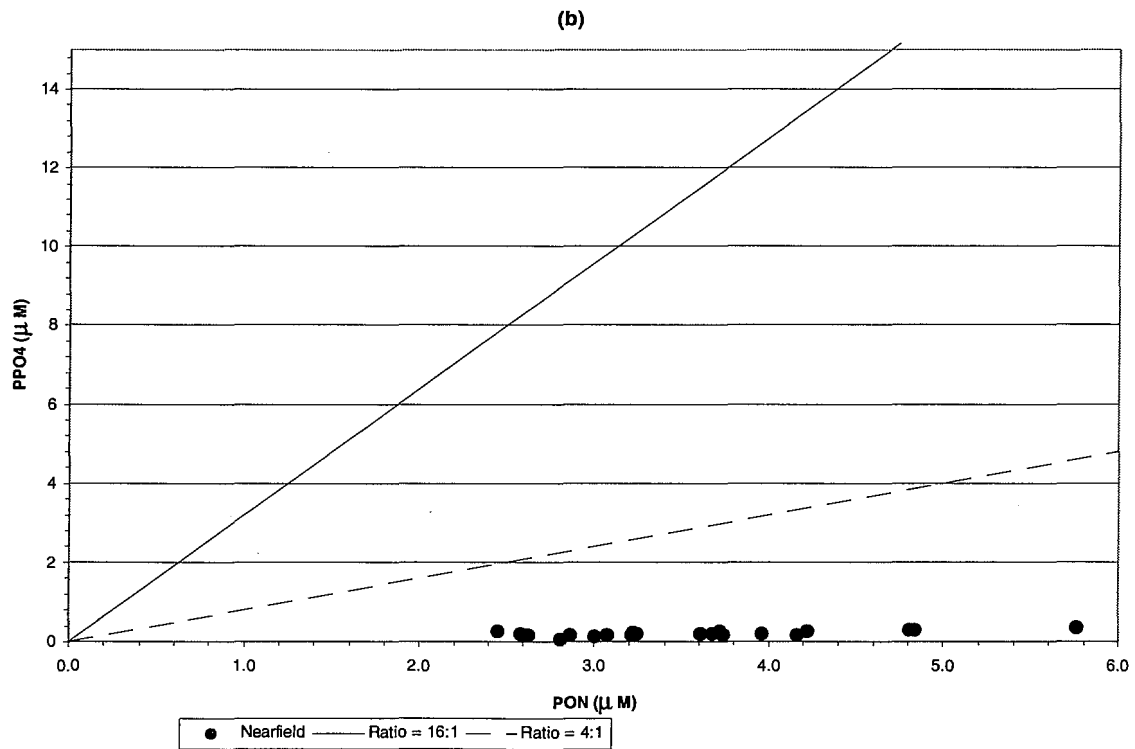
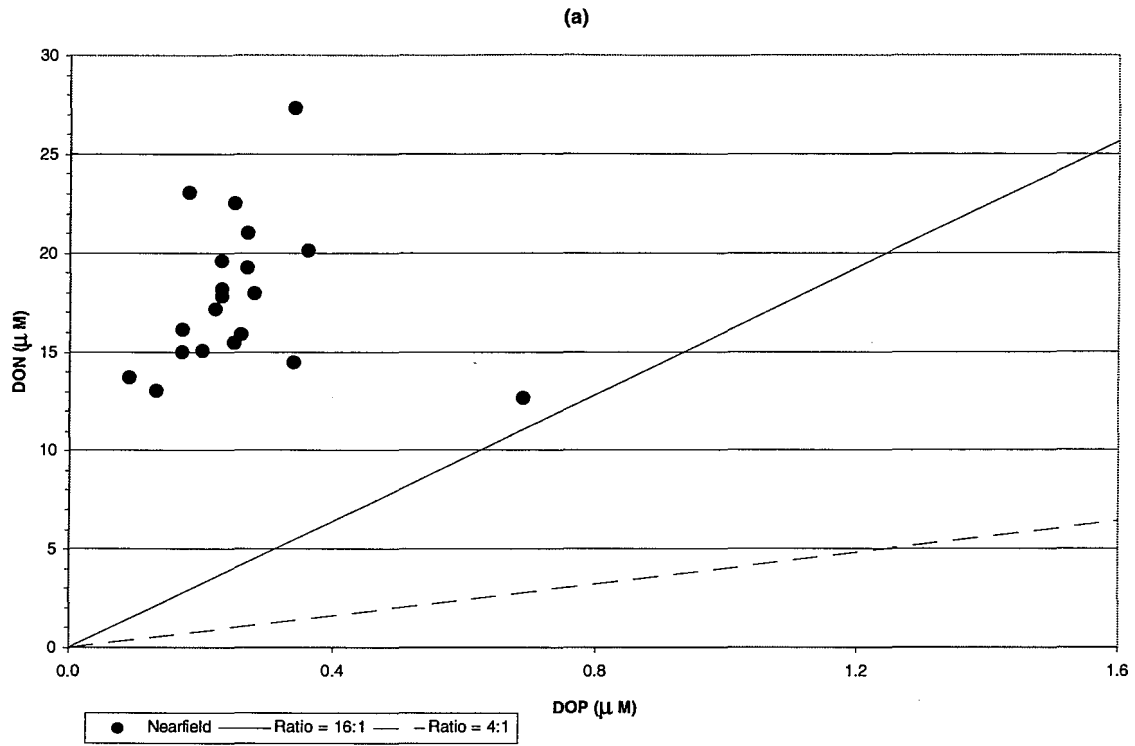


Figure D-69. Nutrient vs. Nutrient Plots for Nearfield Survey WN985, (Apr 98)

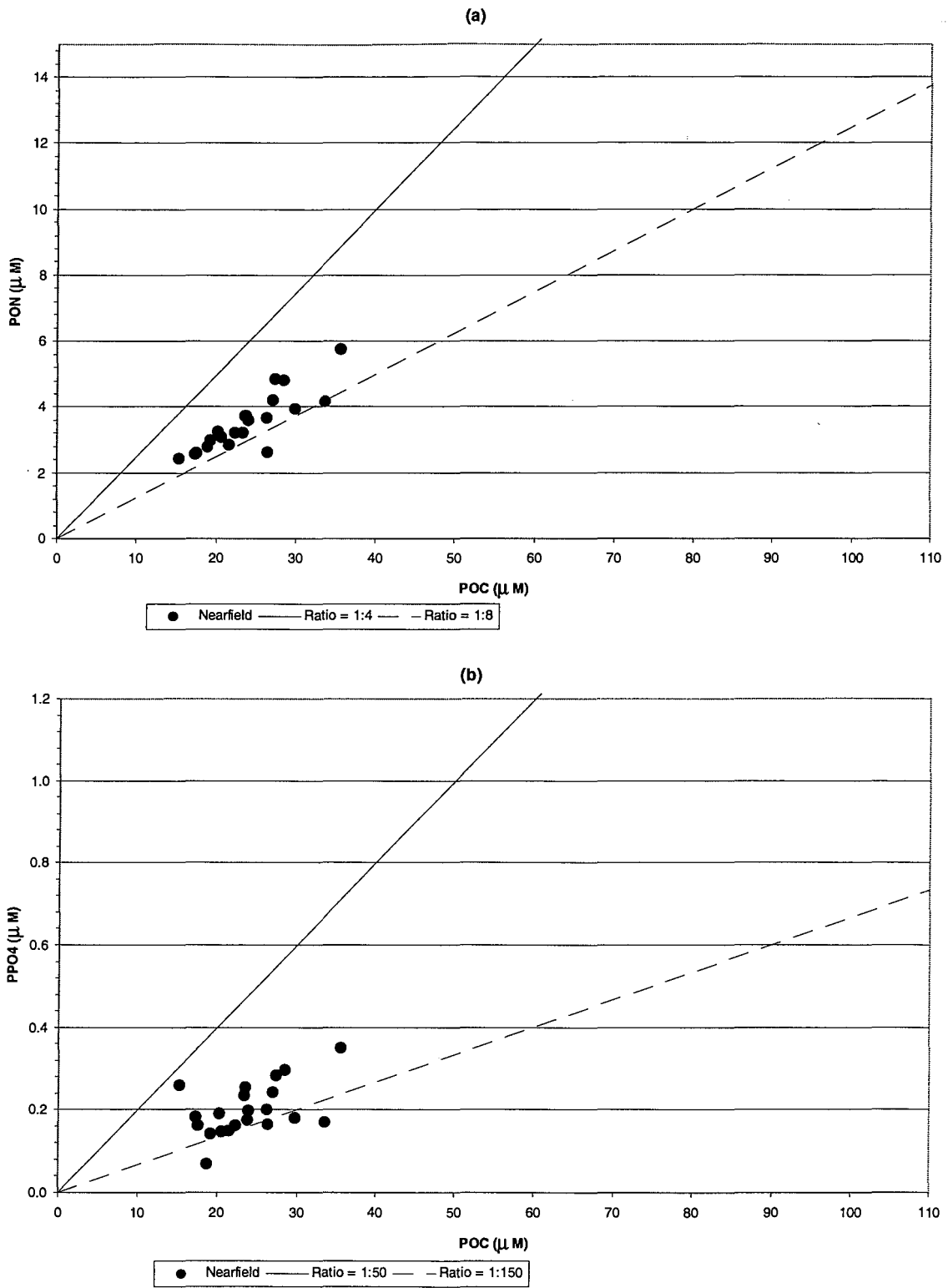


Figure D-70. Nutrient vs. Nutrient Plots for Nearfield Survey WN985, (Apr 98)

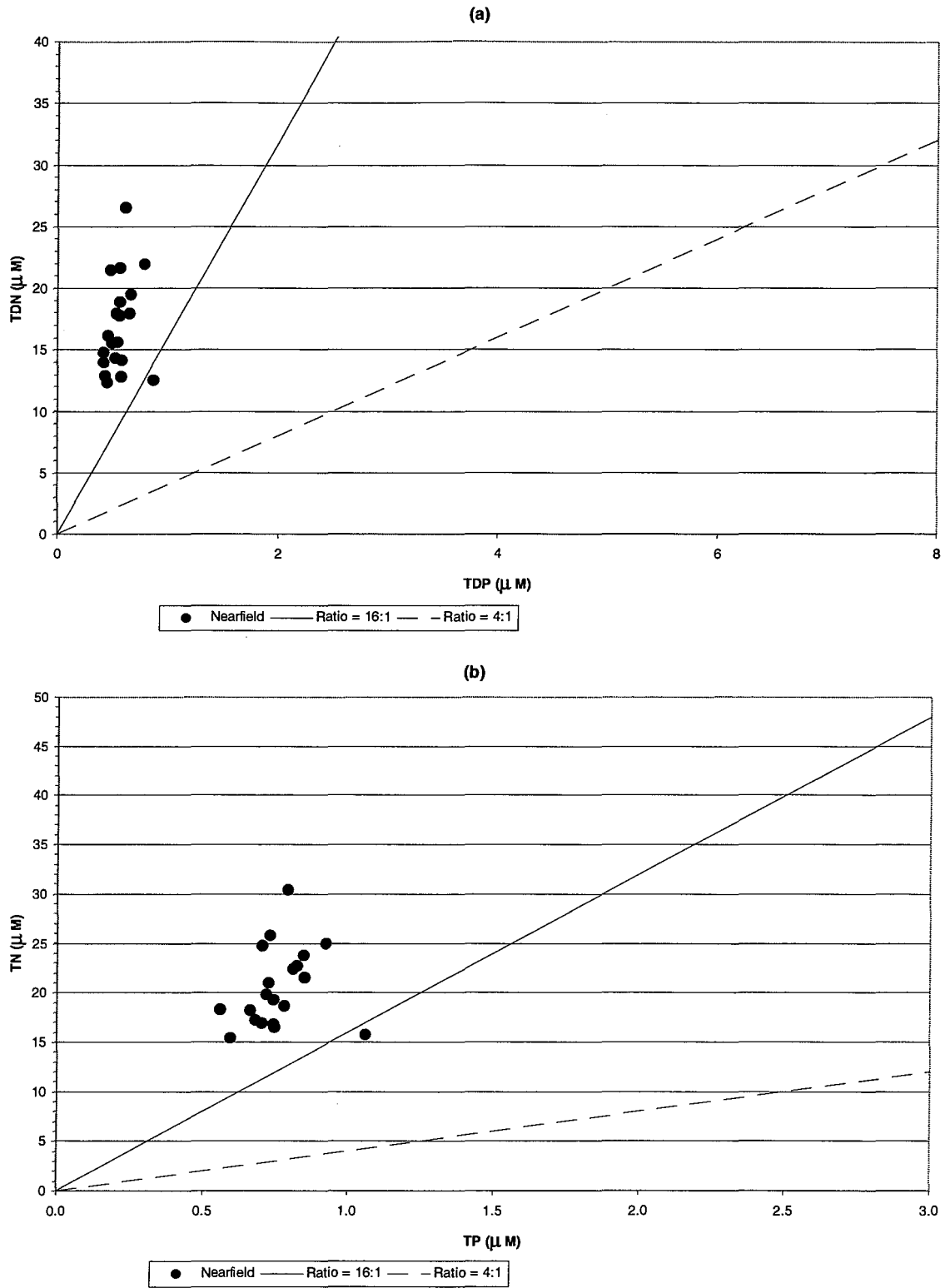


Figure D-71. Nutrient vs. Nutrient Plots for Nearfield Survey WN985, (Apr 98)

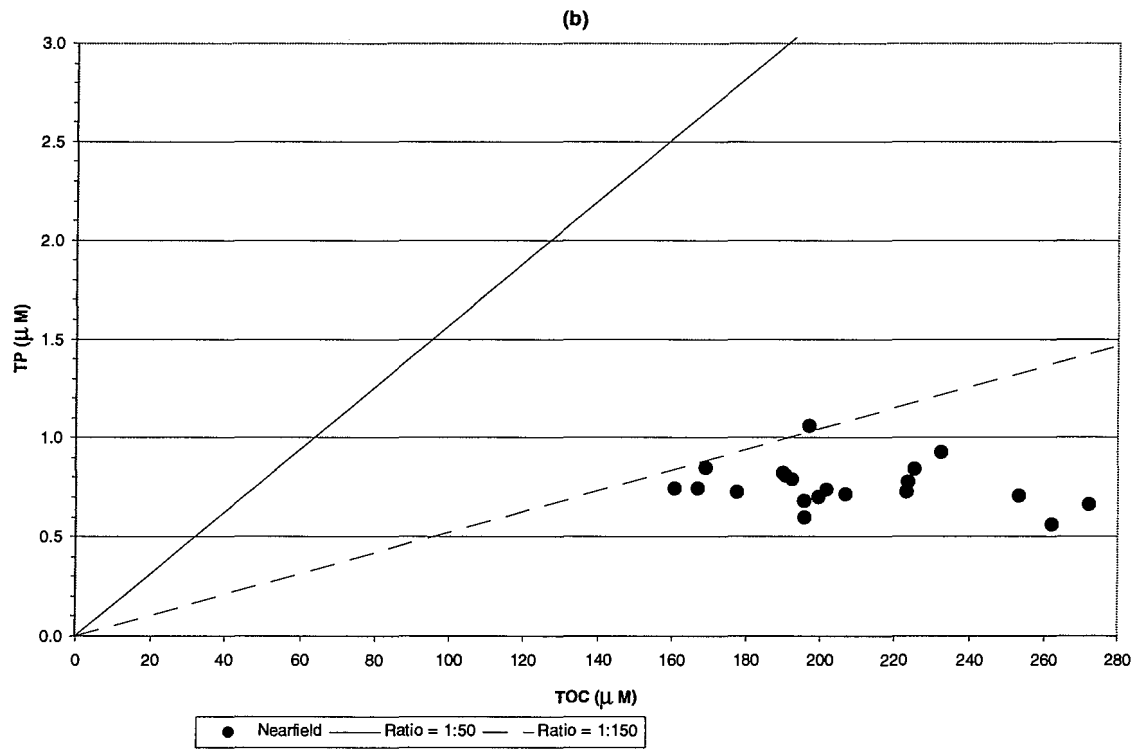
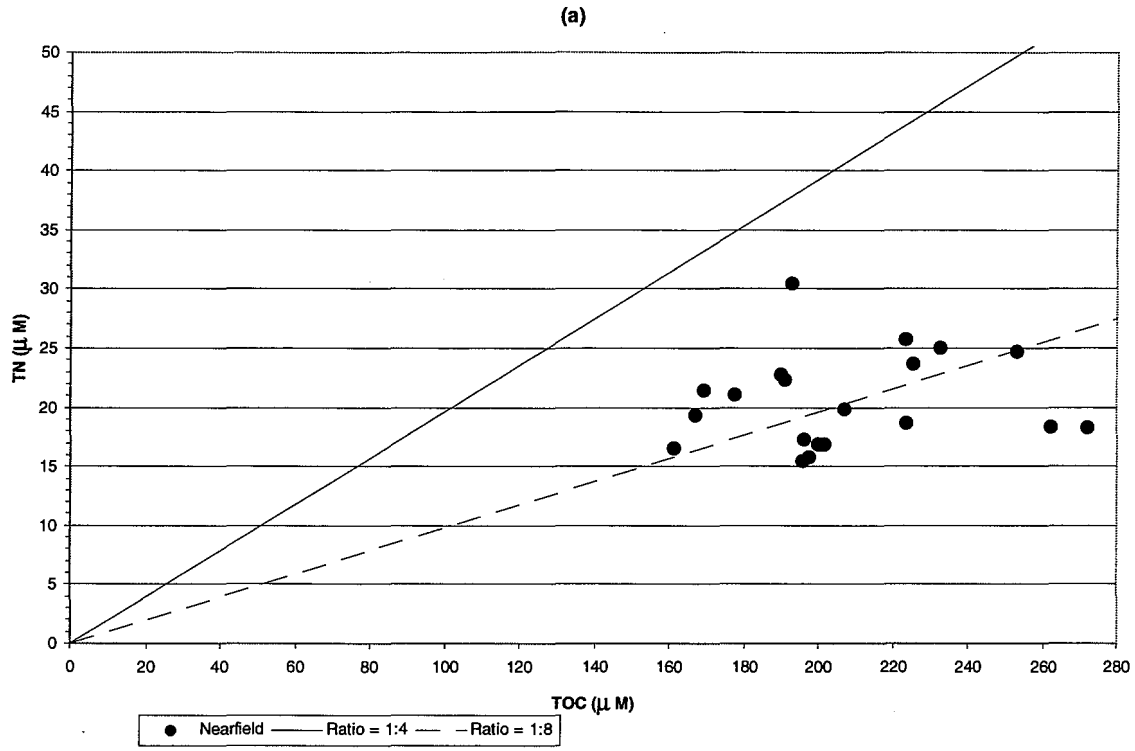


Figure D-72. Nutrient vs. Nutrient Plots for Nearfield Survey WN985, (Apr 98)

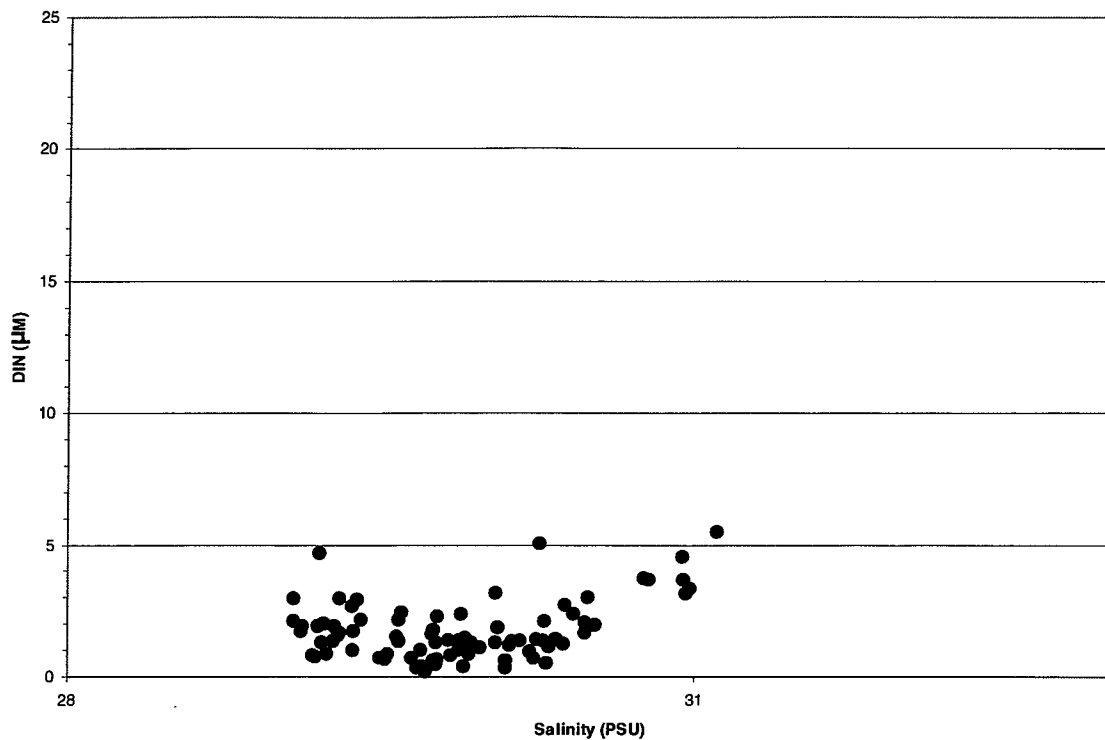


Figure D-73. Nutrient vs. Salinity Plots for Nearfield Survey WN985, (Apr 98)

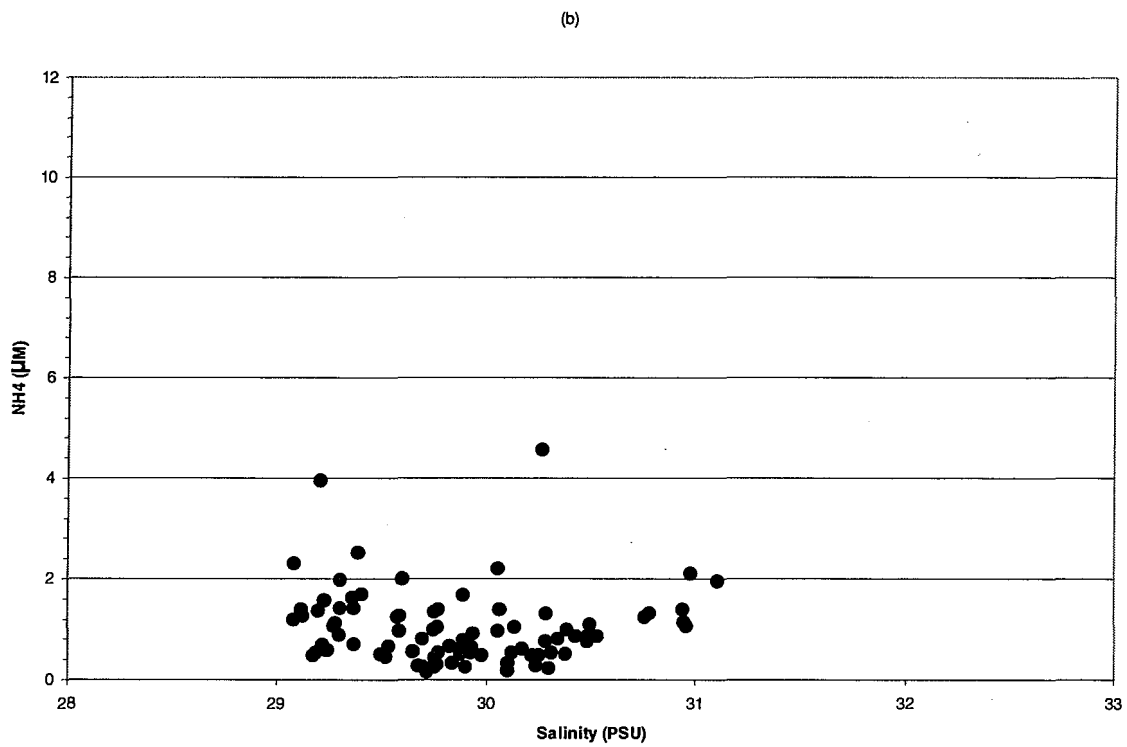
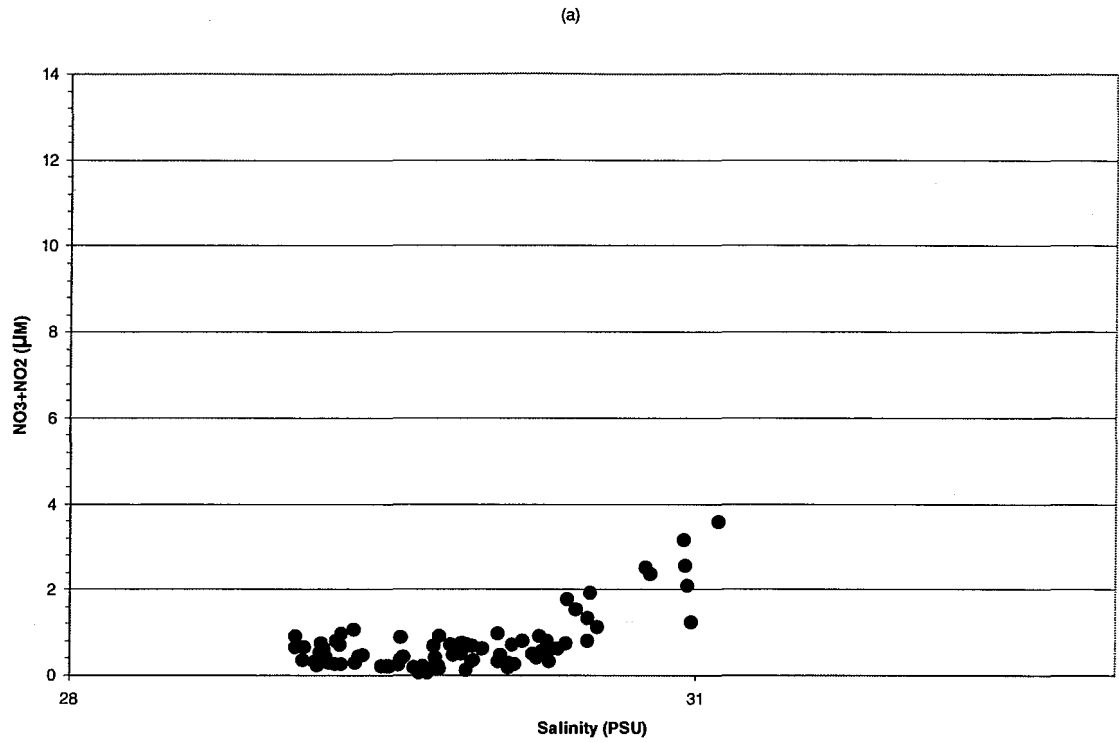


Figure D-74. Nutrient vs. Salinity Plots for Nearfield Survey WN985, (Apr 98)

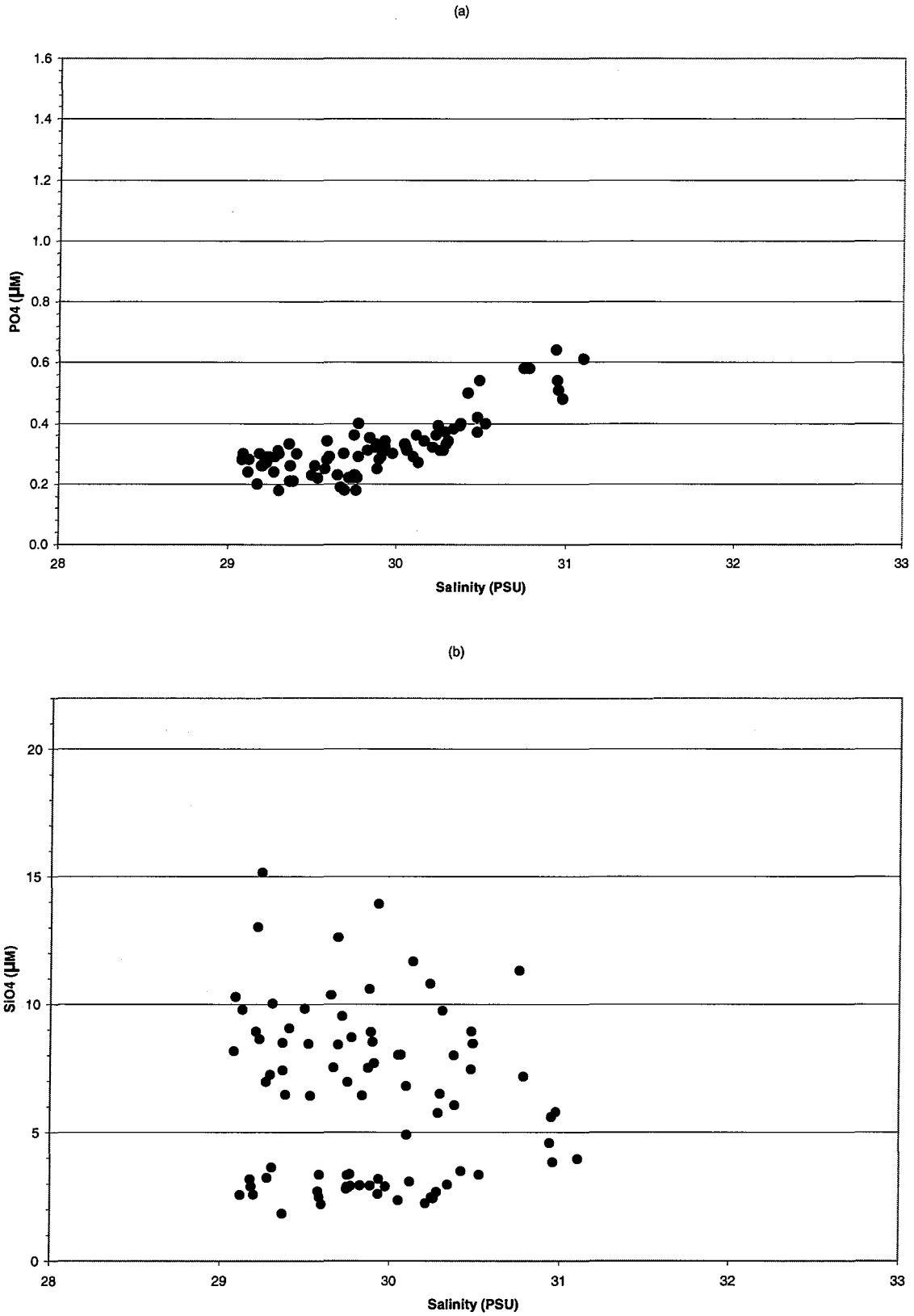


Figure D-75. Nutrient vs. Salinity Plots for Nearfield Survey WN985, (Apr 98)

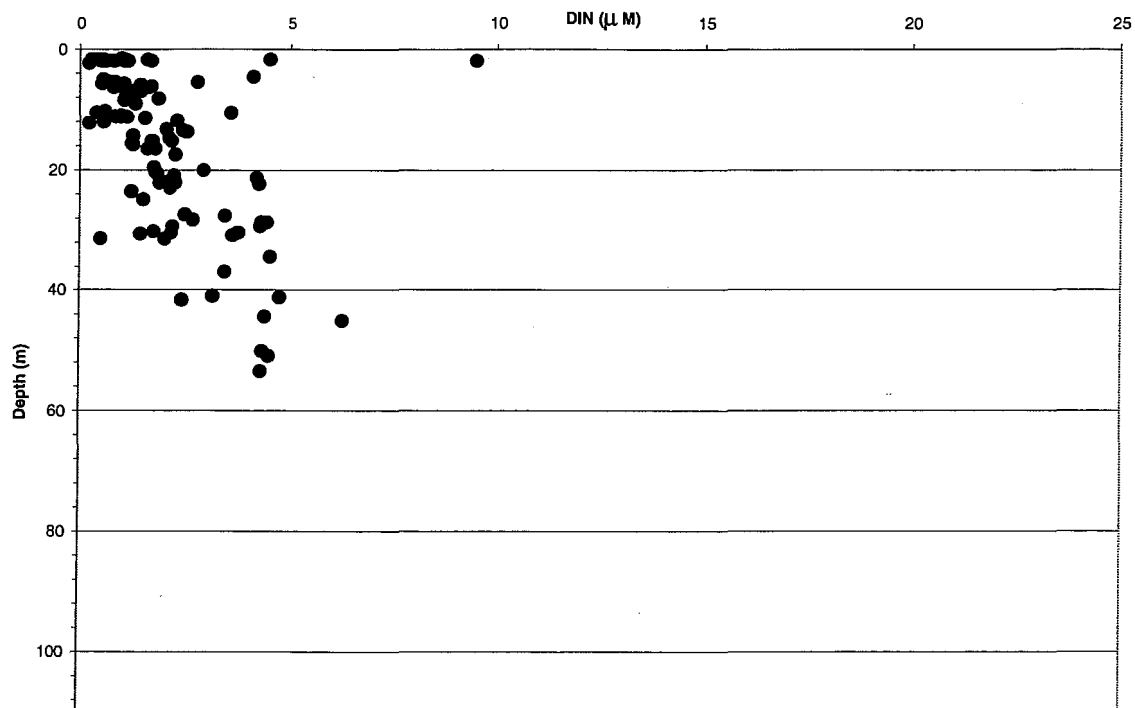


Figure D-76. Depth vs. Nutrient Plots for Nearfield Survey WN986, (May 98)

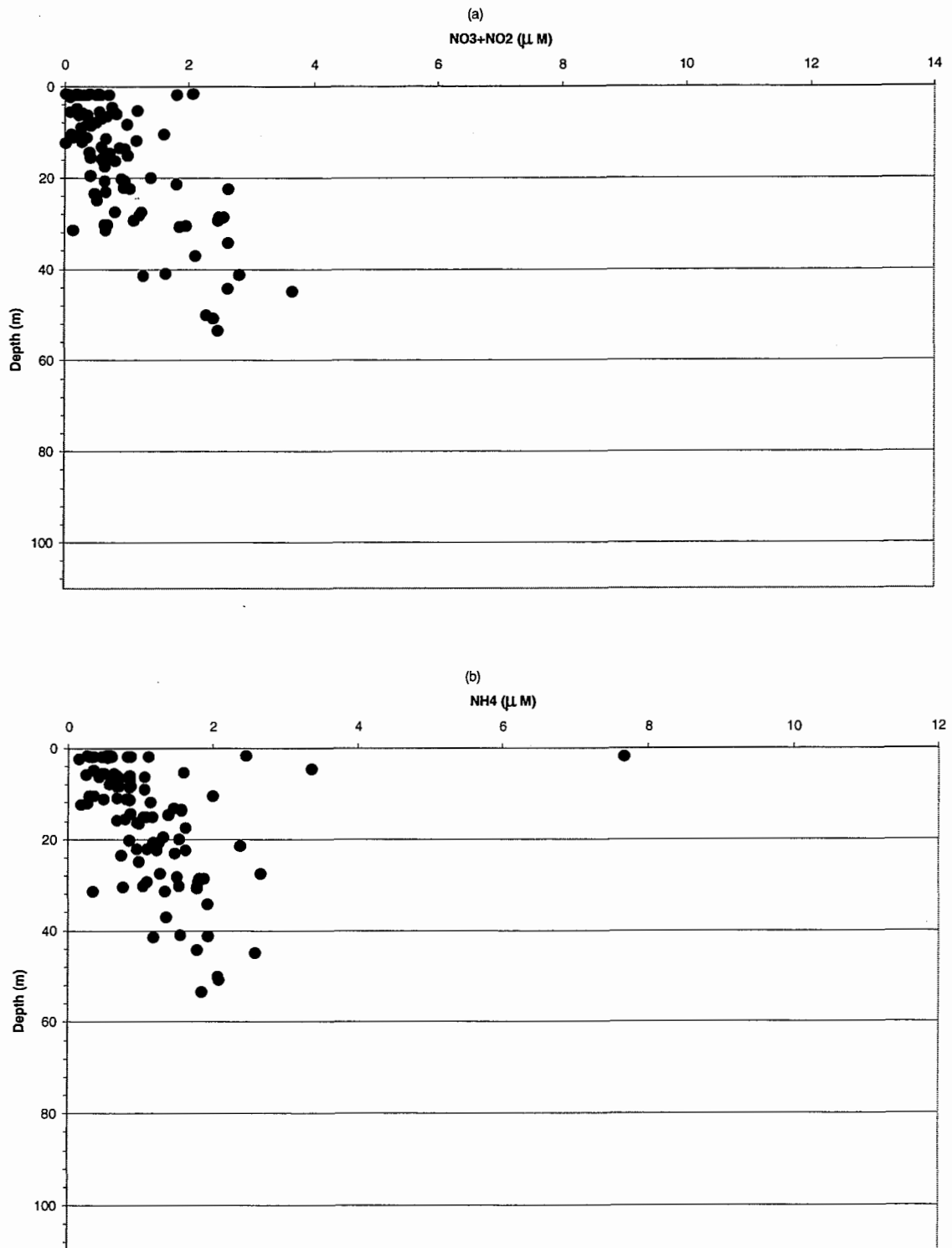


Figure D-77. Depth vs. Nutrient Plots for Nearfield Survey WN986, (May 98)

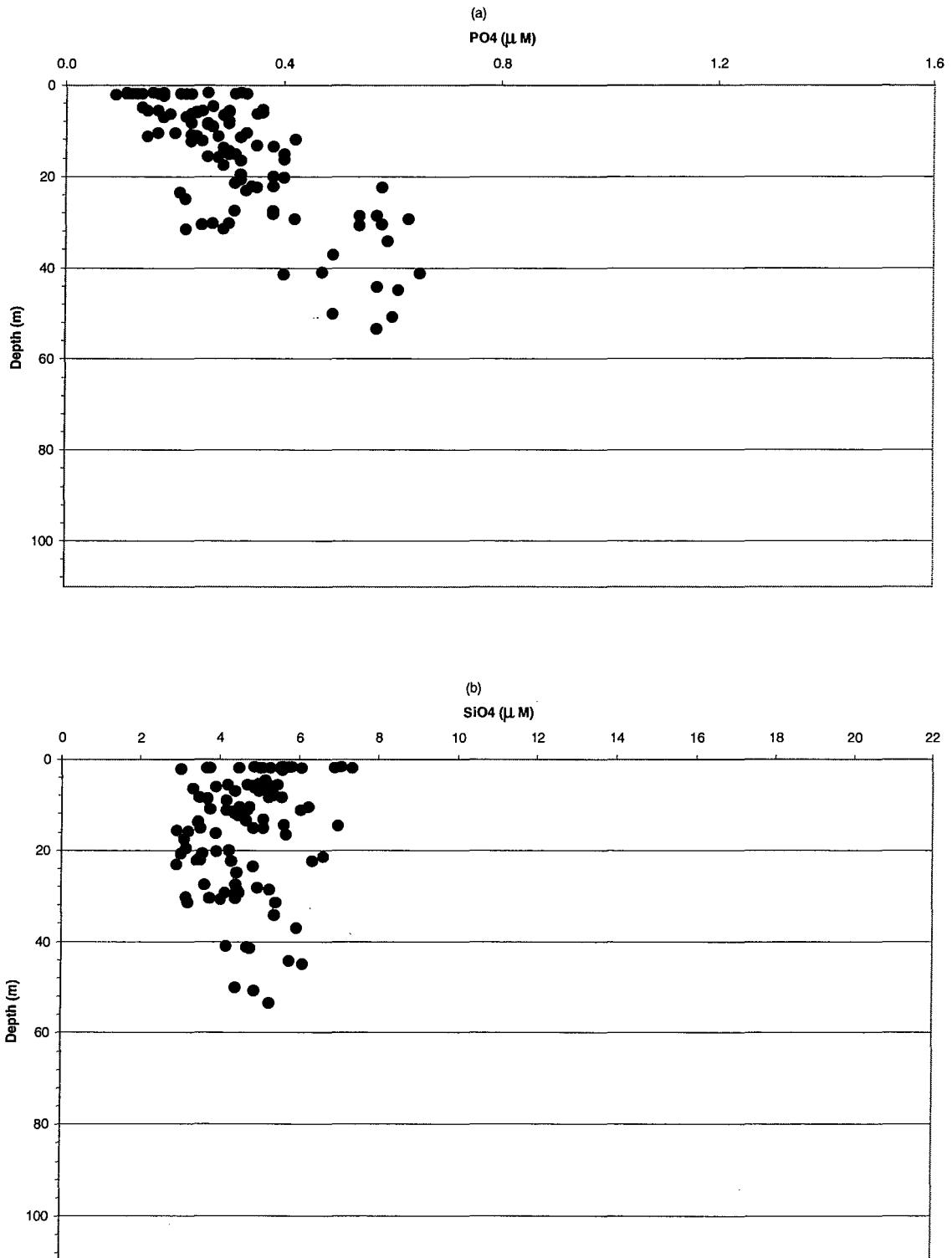


Figure D-78. Depth vs. Nutrient Plots for Nearfield Survey WN986, (May 98)

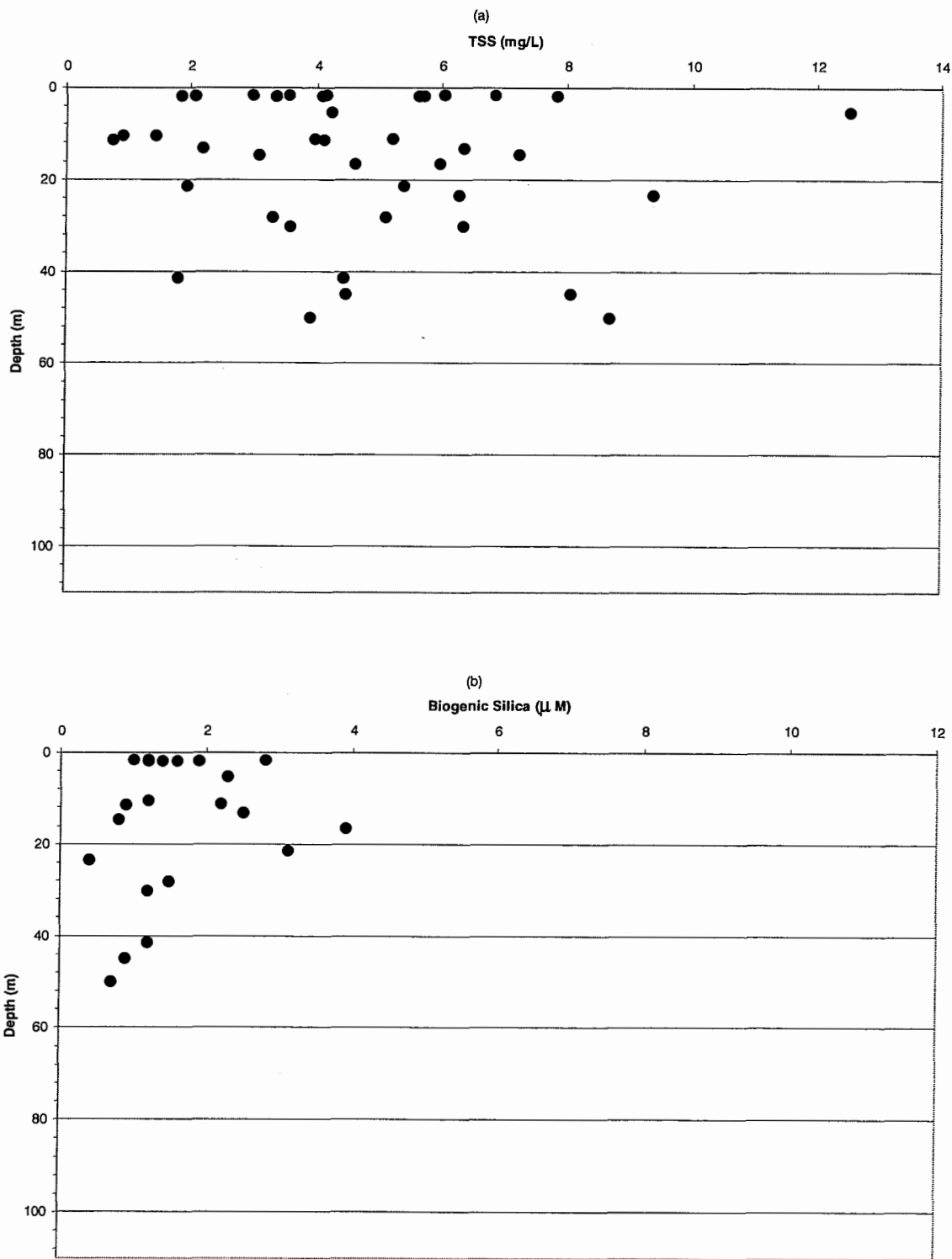


Figure D-79. Depth vs. Nutrient Plots for Nearfield Survey WN986, (May 98)

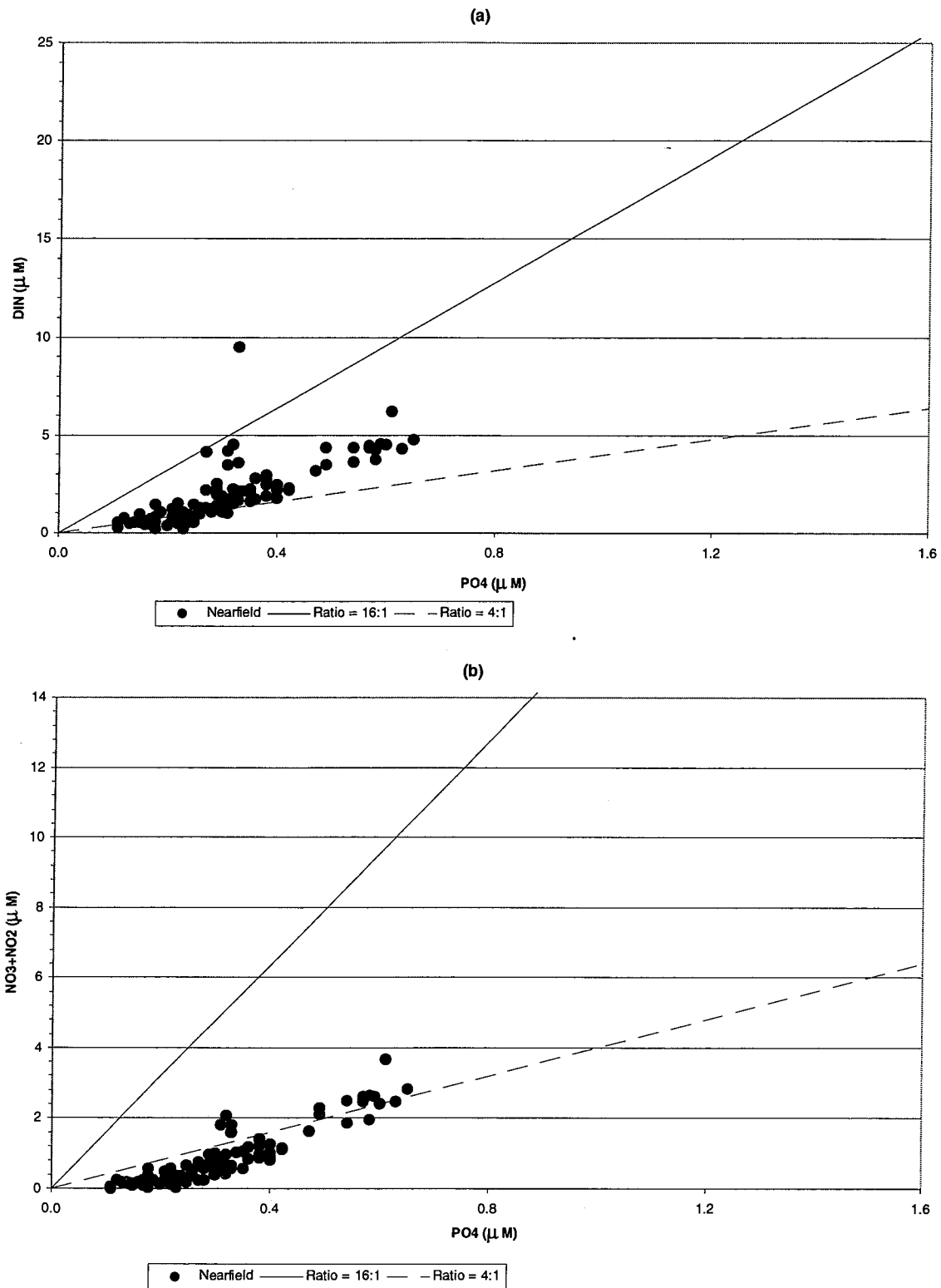


Figure D-80. Nutrient vs. Nutrient Plots for Nearfield Survey WN986, (May 98)

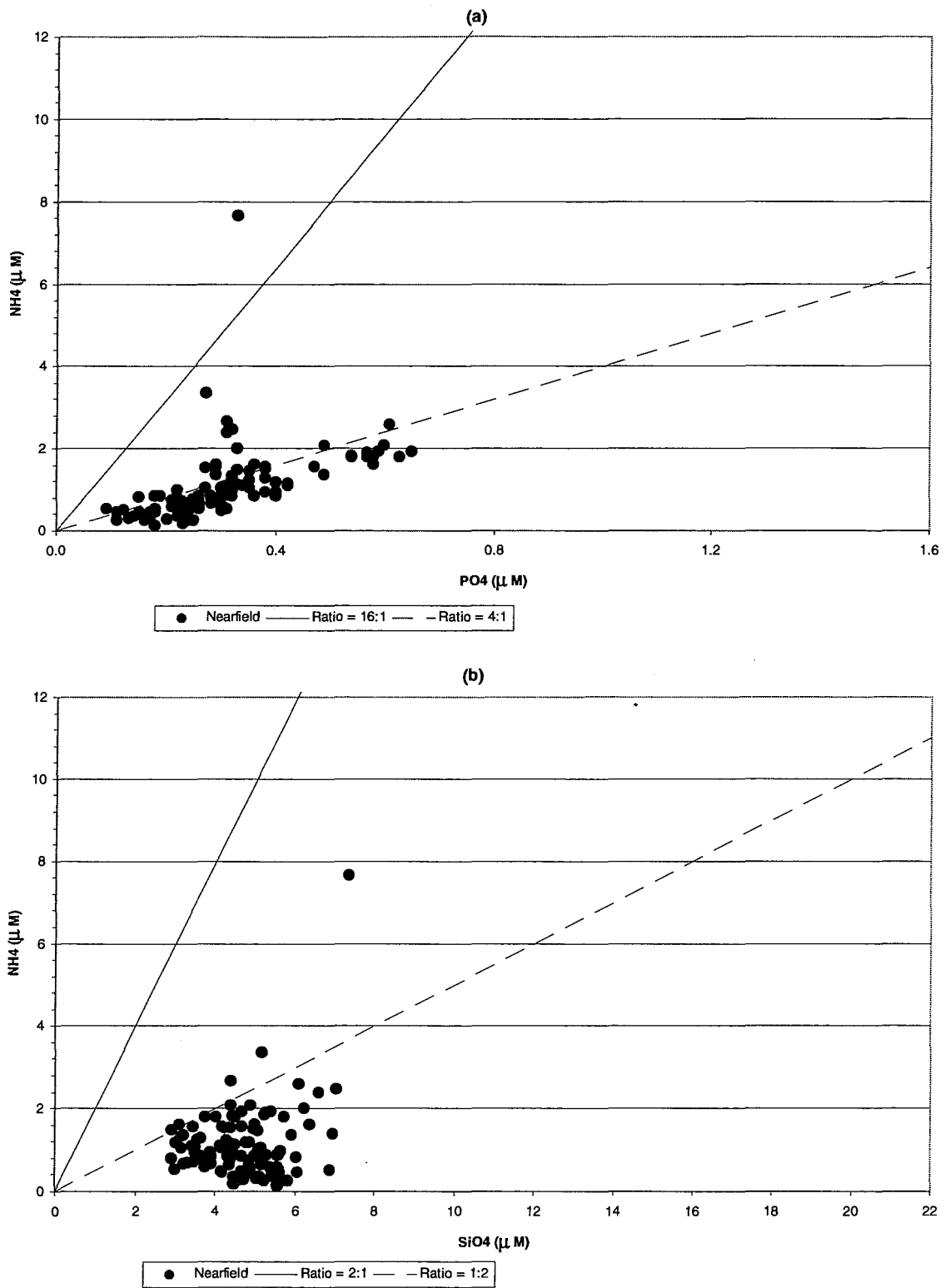


Figure D-81. Nutrient vs. Nutrient Plots for Nearfield Survey WN986, (May 98)

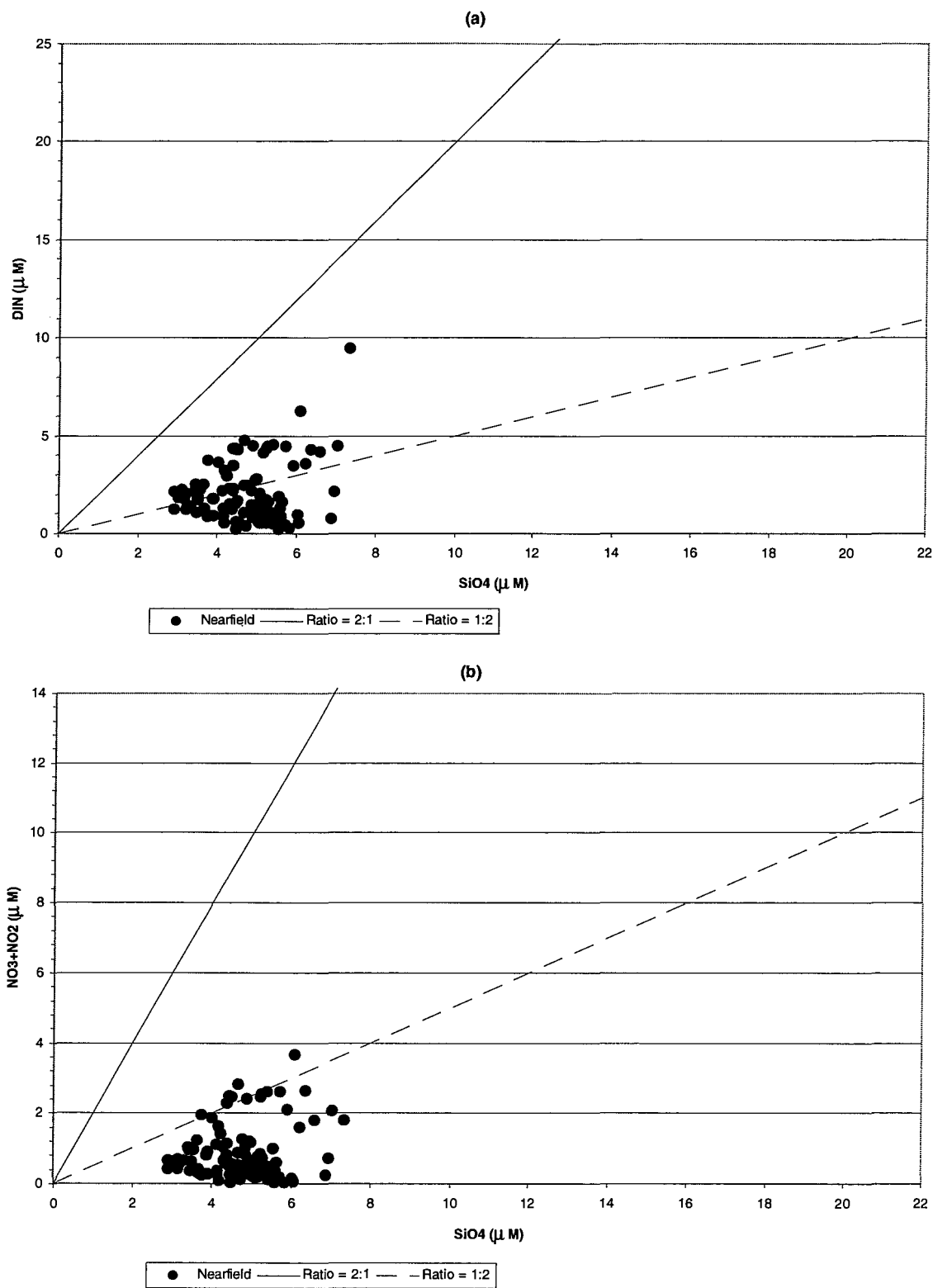


Figure D-82. Nutrient vs. Nutrient Plots for Nearfield Survey WN986, (May 98)

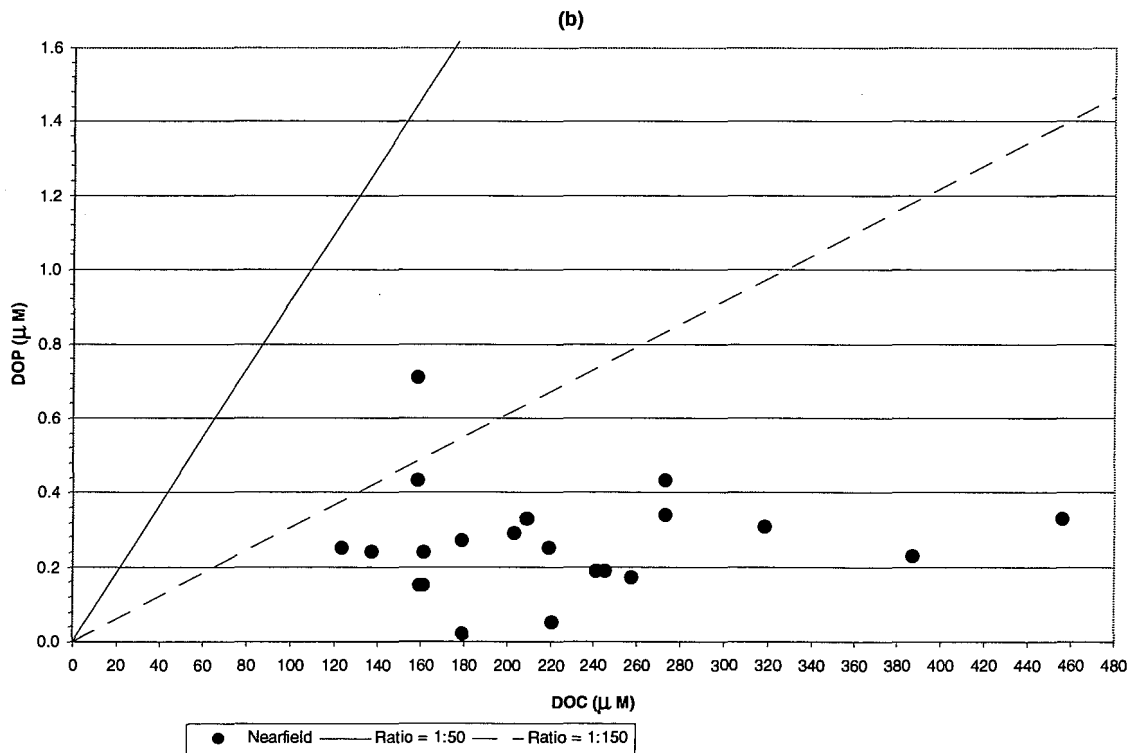
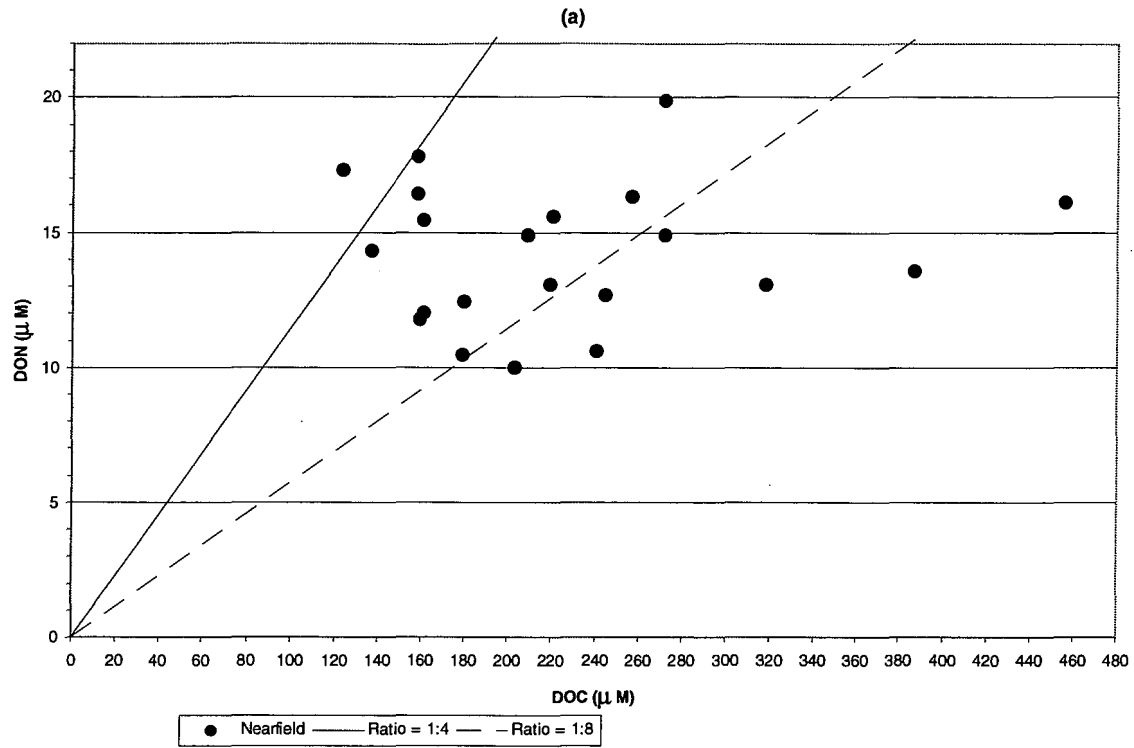


Figure D-83. Nutrient vs. Nutrient Plots for Nearfield Survey WN986, (May 98)

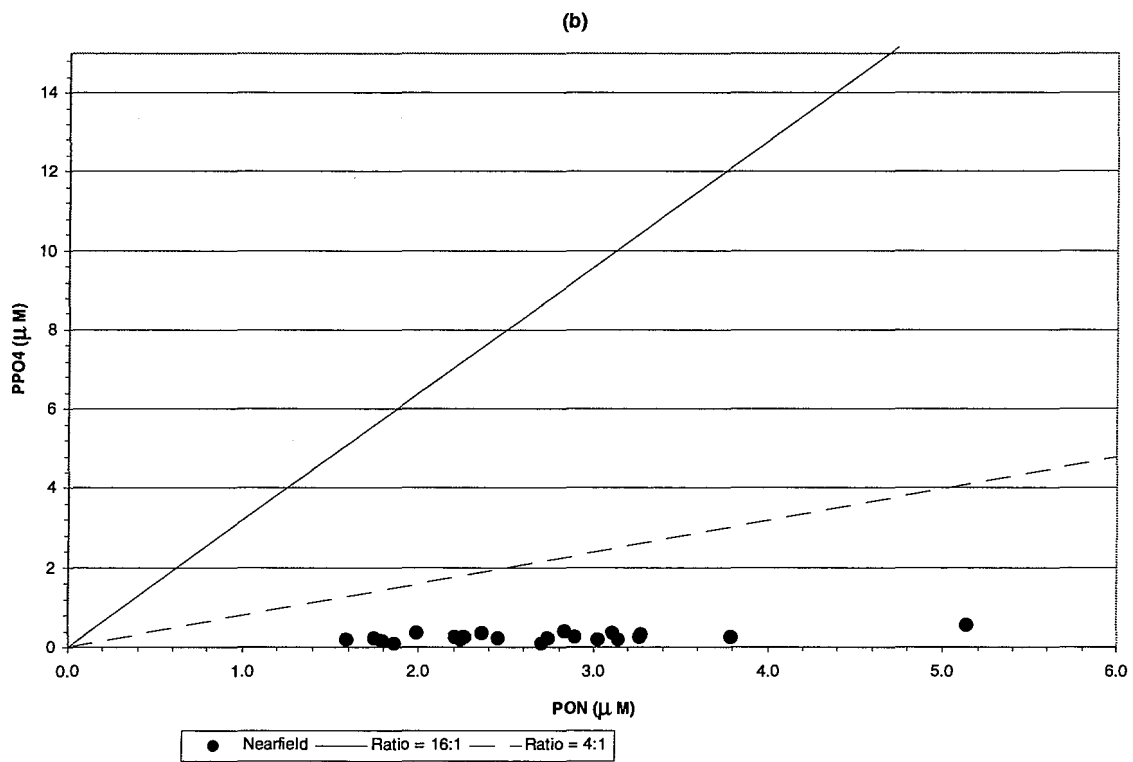
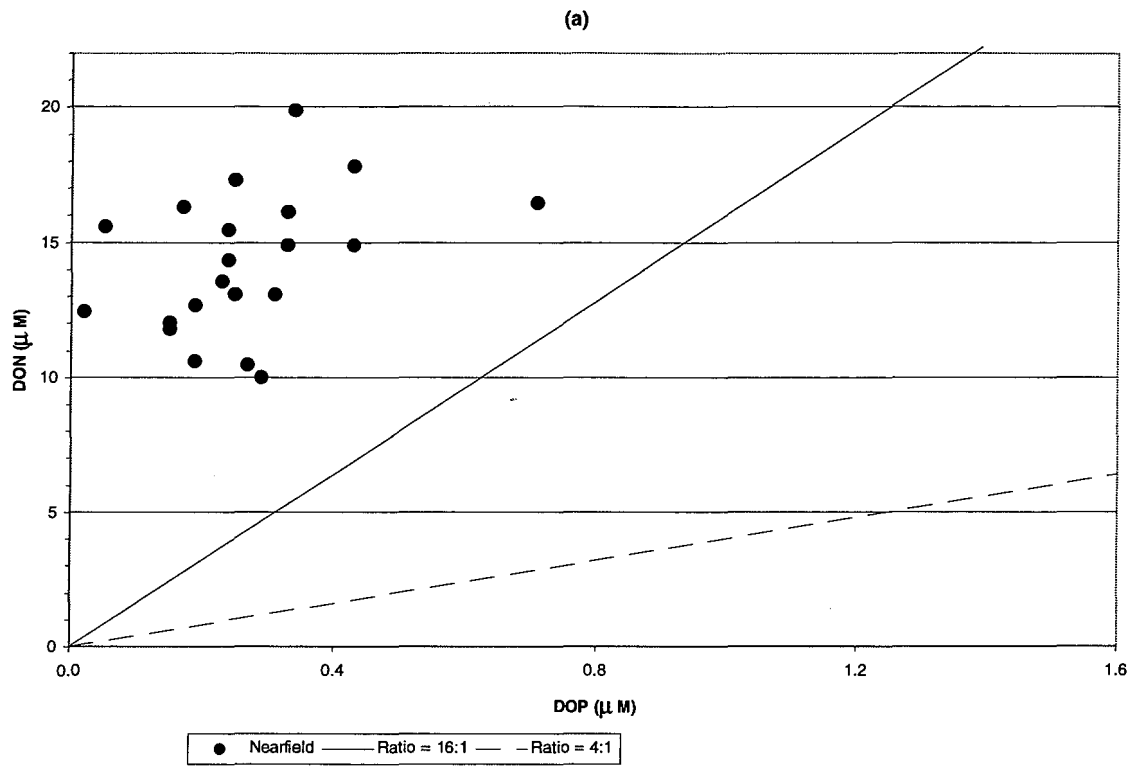


Figure D-84. Nutrient vs. Nutrient Plots for Nearfield Survey WN986, (May 98)

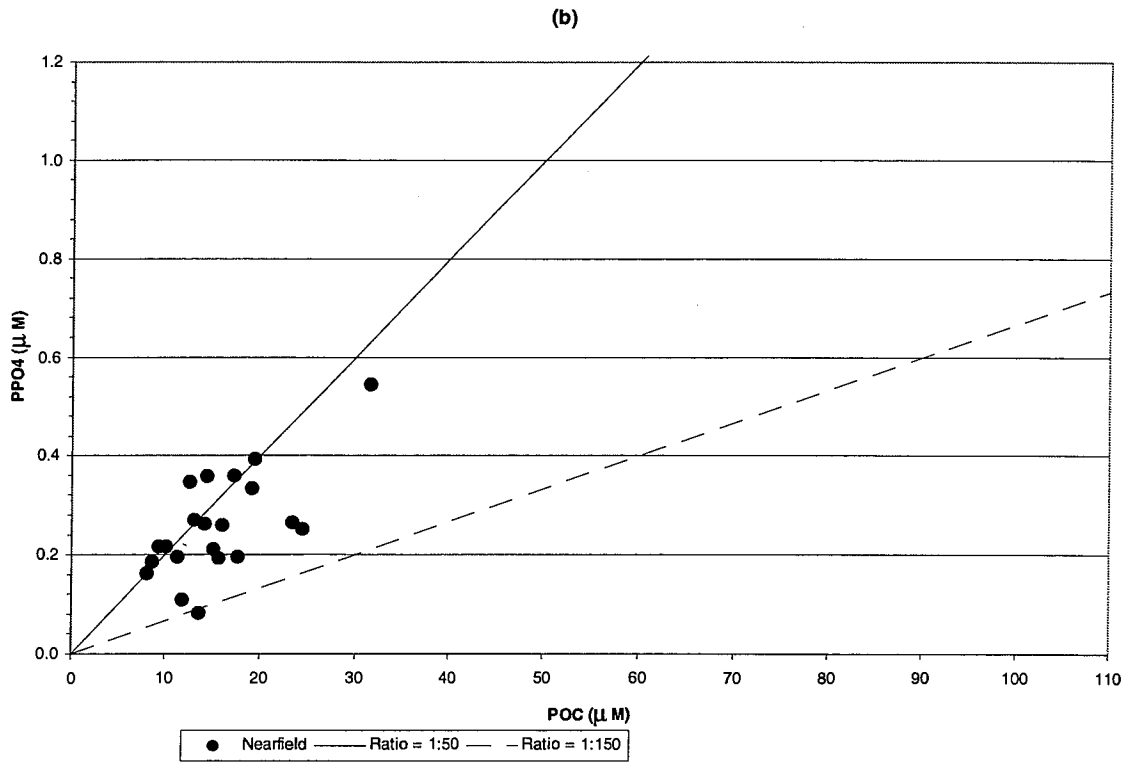
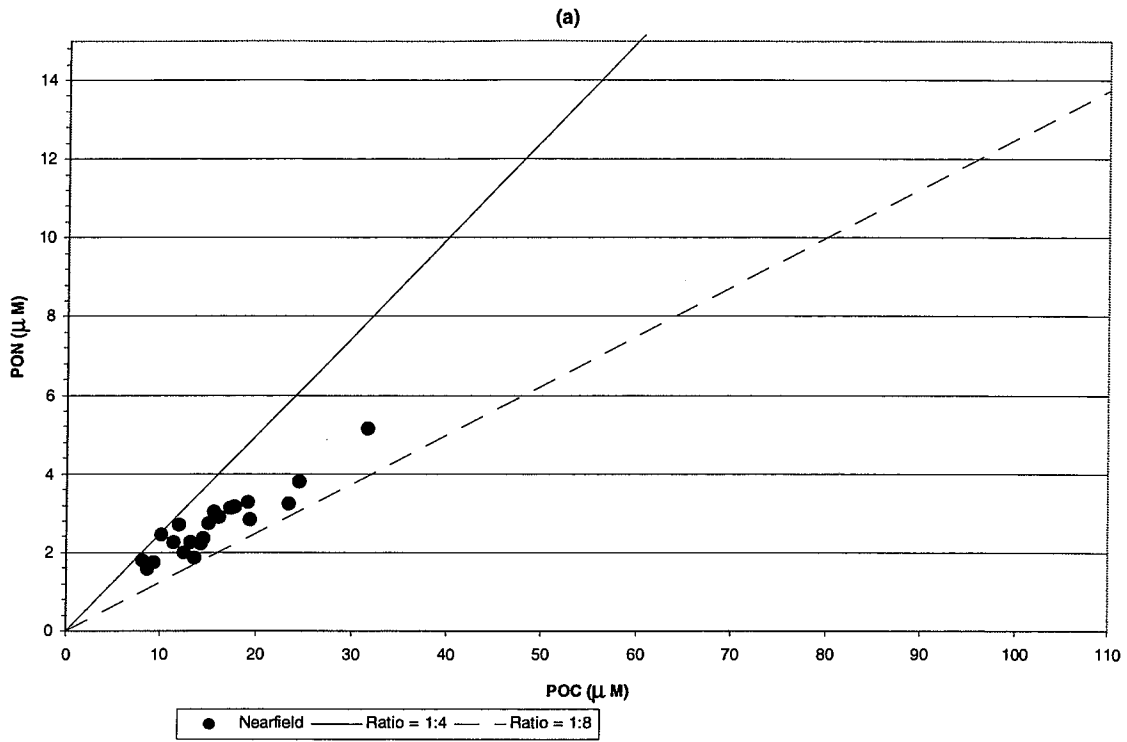


Figure D-85. Nutrient vs. Nutrient Plots for Nearfield Survey WN986, (May 98)

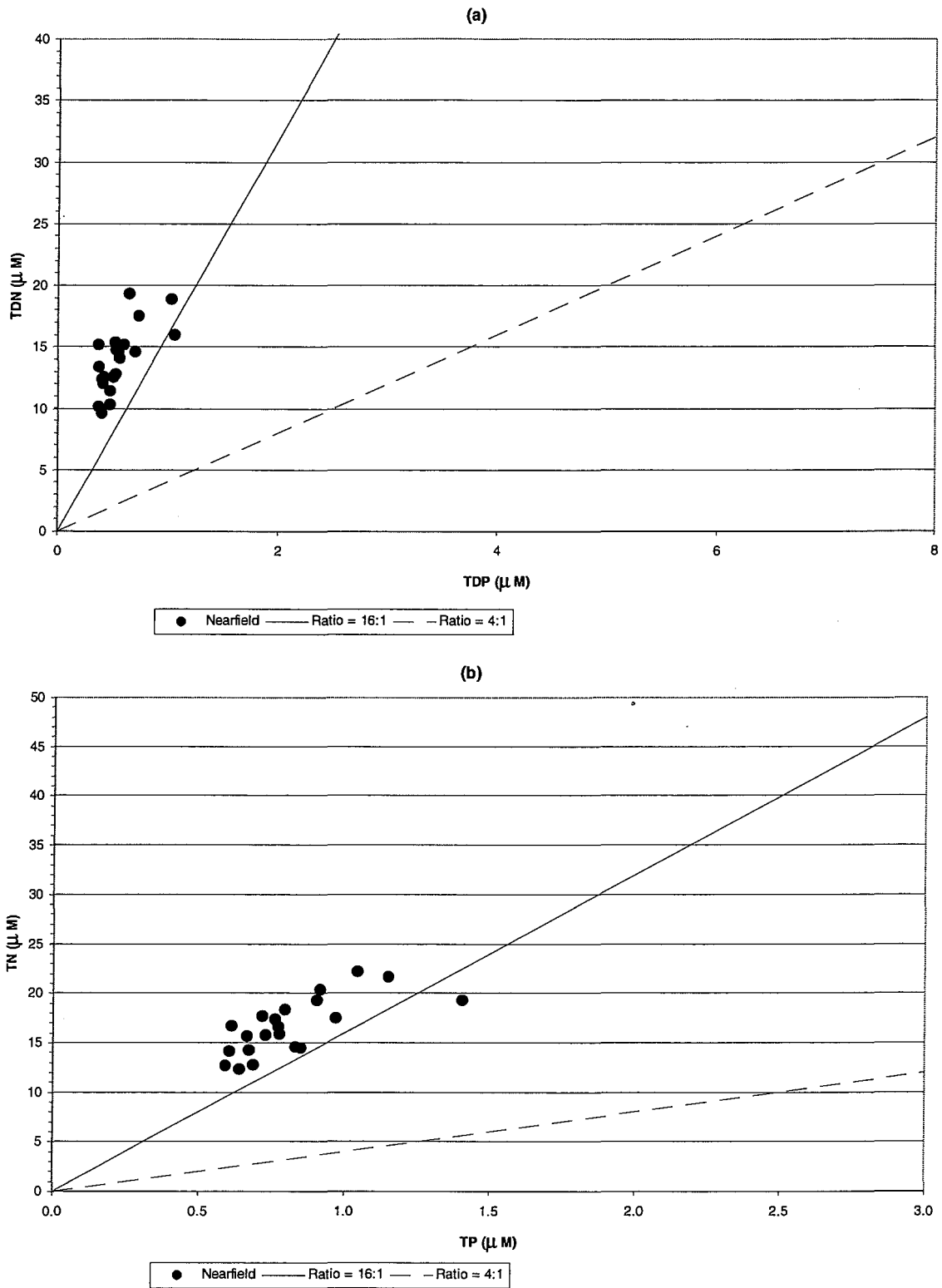


Figure D-86. Nutrient vs. Nutrient Plots for Nearfield Survey WN986, (May 98)

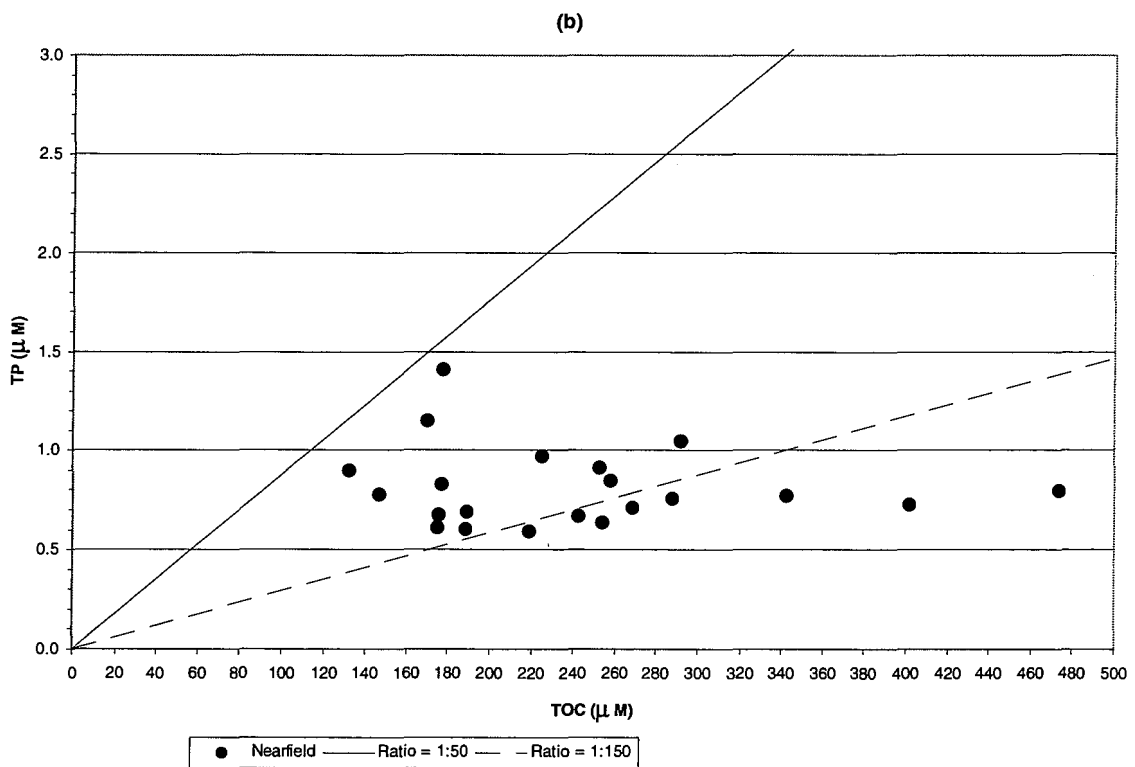
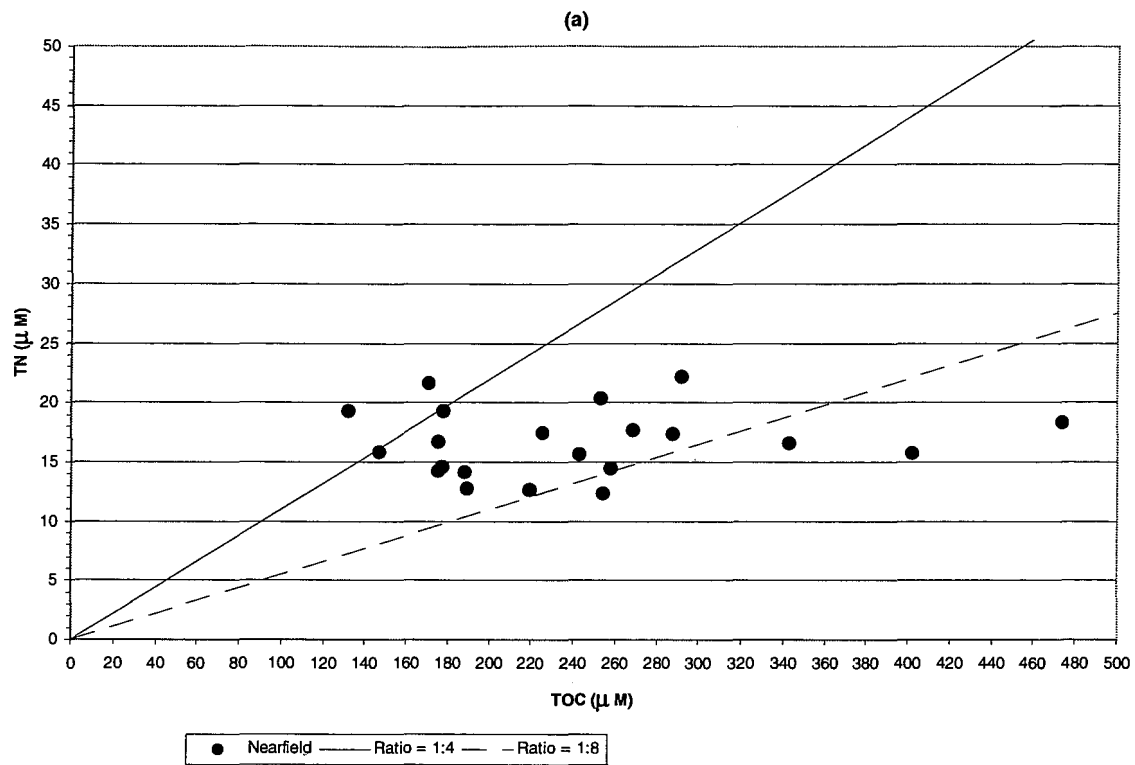


Figure D-87. Nutrient vs. Nutrient Plots for Nearfield Survey WN986, (May 98)

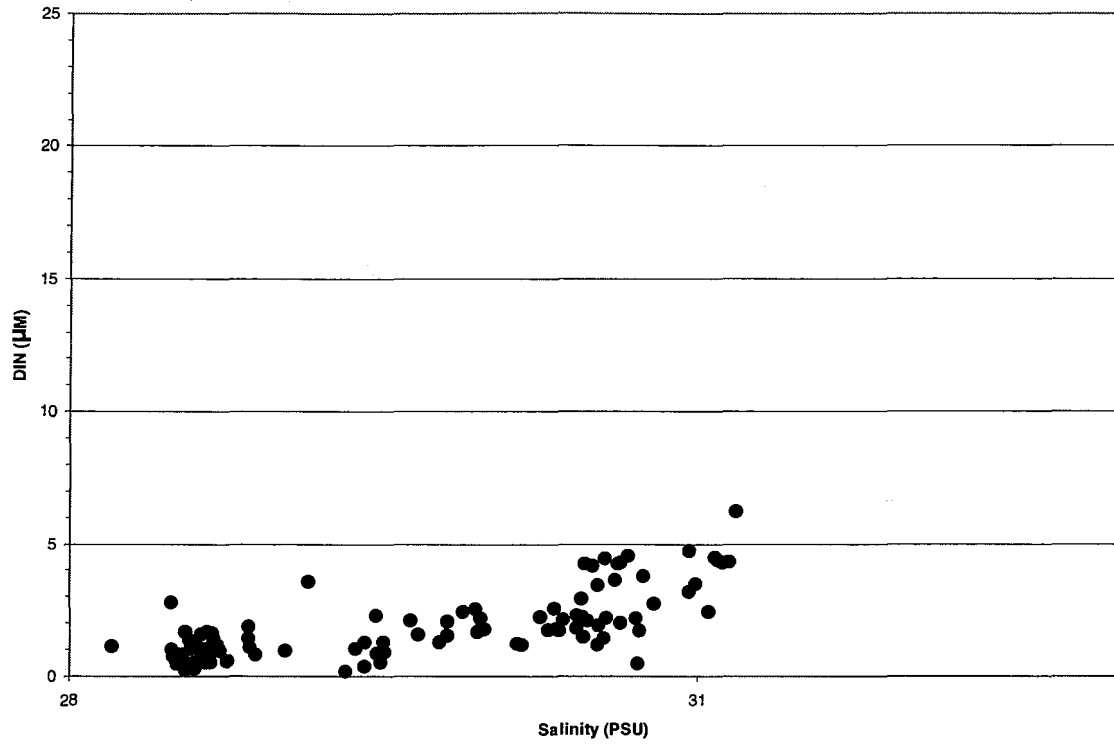


Figure D-88. Nutrient vs. Salinity Plots for Nearfield Survey WN986, (May 98)

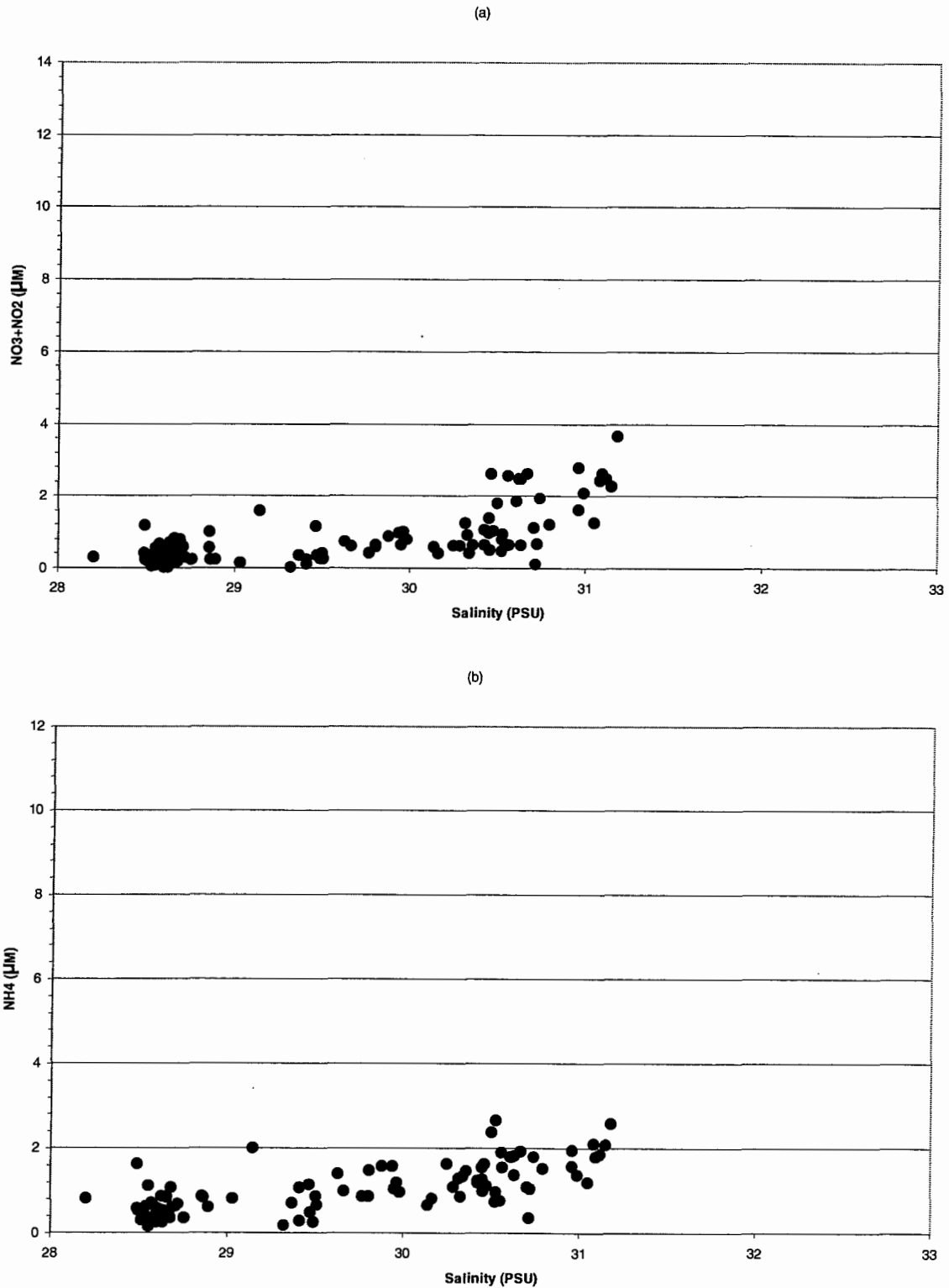


Figure D-89. Nutrient vs. Salinity Plots for Nearfield Survey WN986, (May 98)

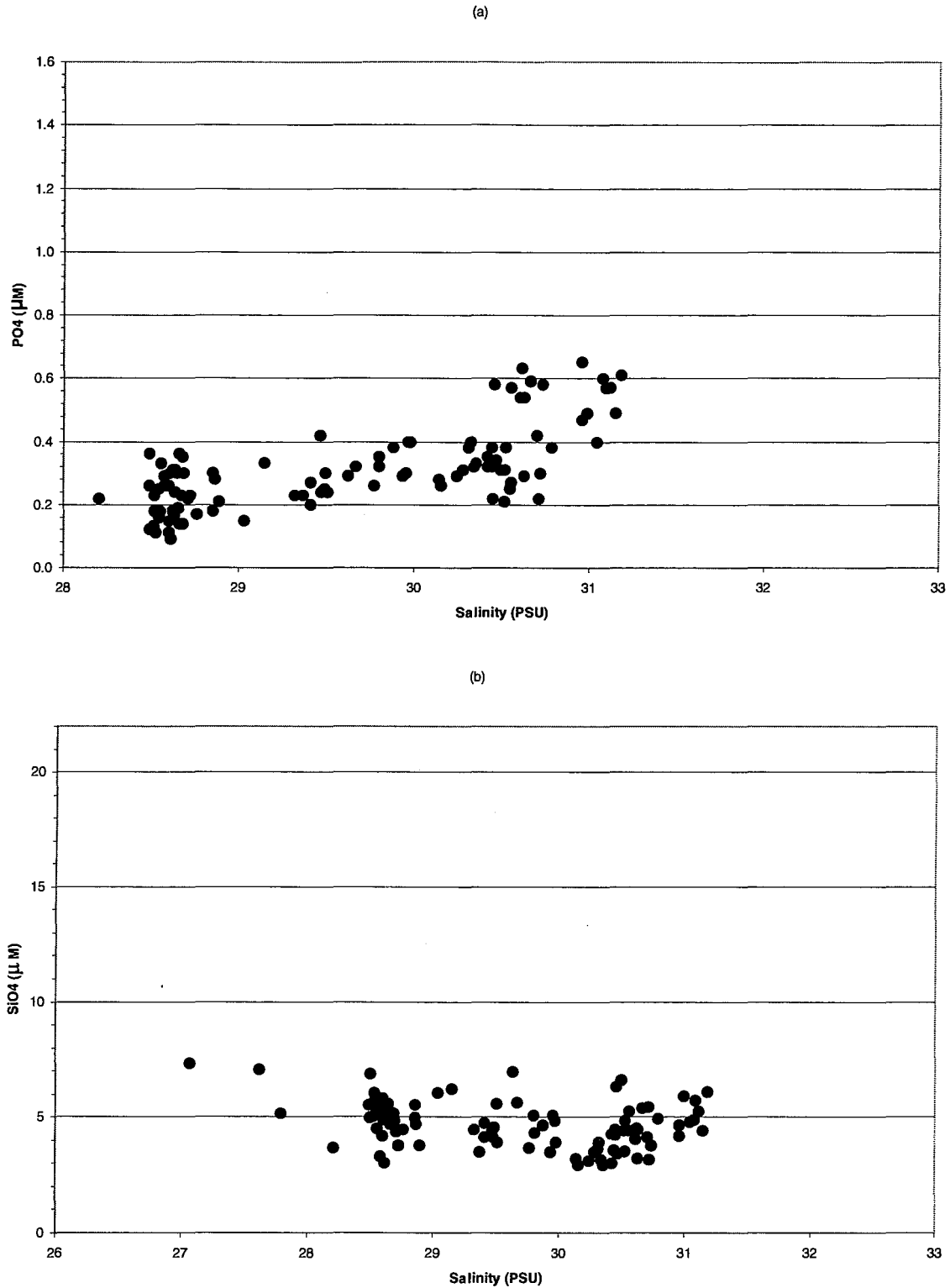


Figure D-90. Nutrient vs. Salinity Plots for Nearfield Survey WN986, (May 98)

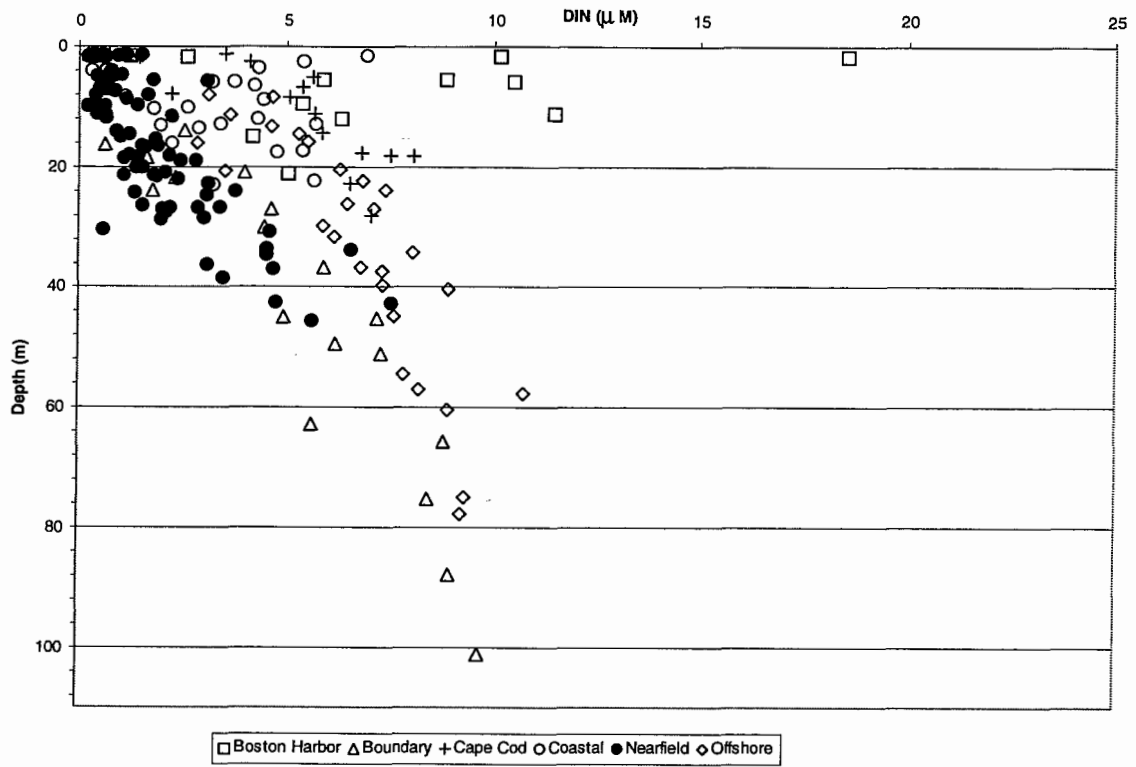


Figure D-91. Depth vs. Nutrient Plots for Farfield Survey WF987, (Jun 98)

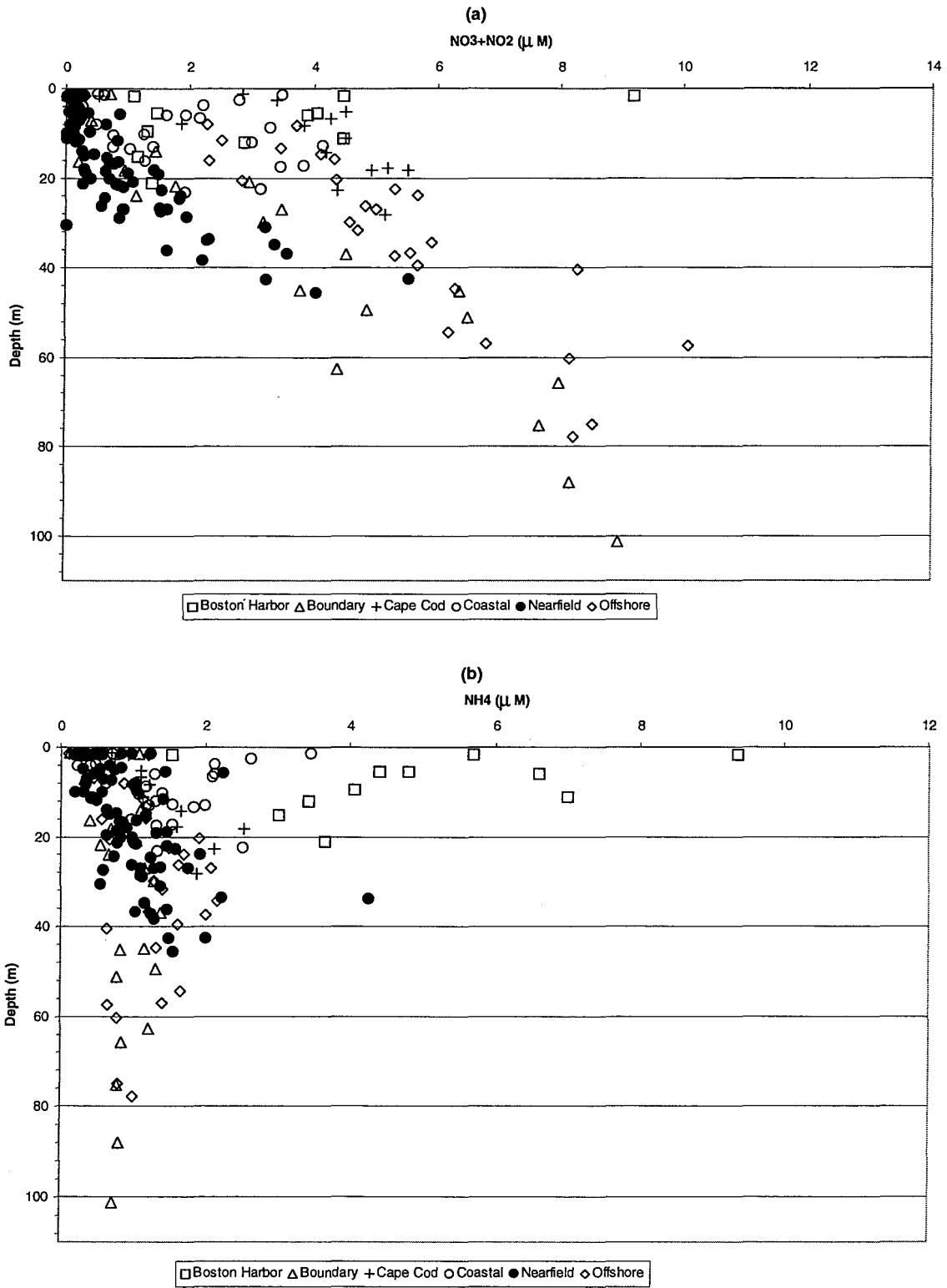


Figure D-92. Depth vs. Nutrient Plots for Farfield Survey WF987, (Jun 98)

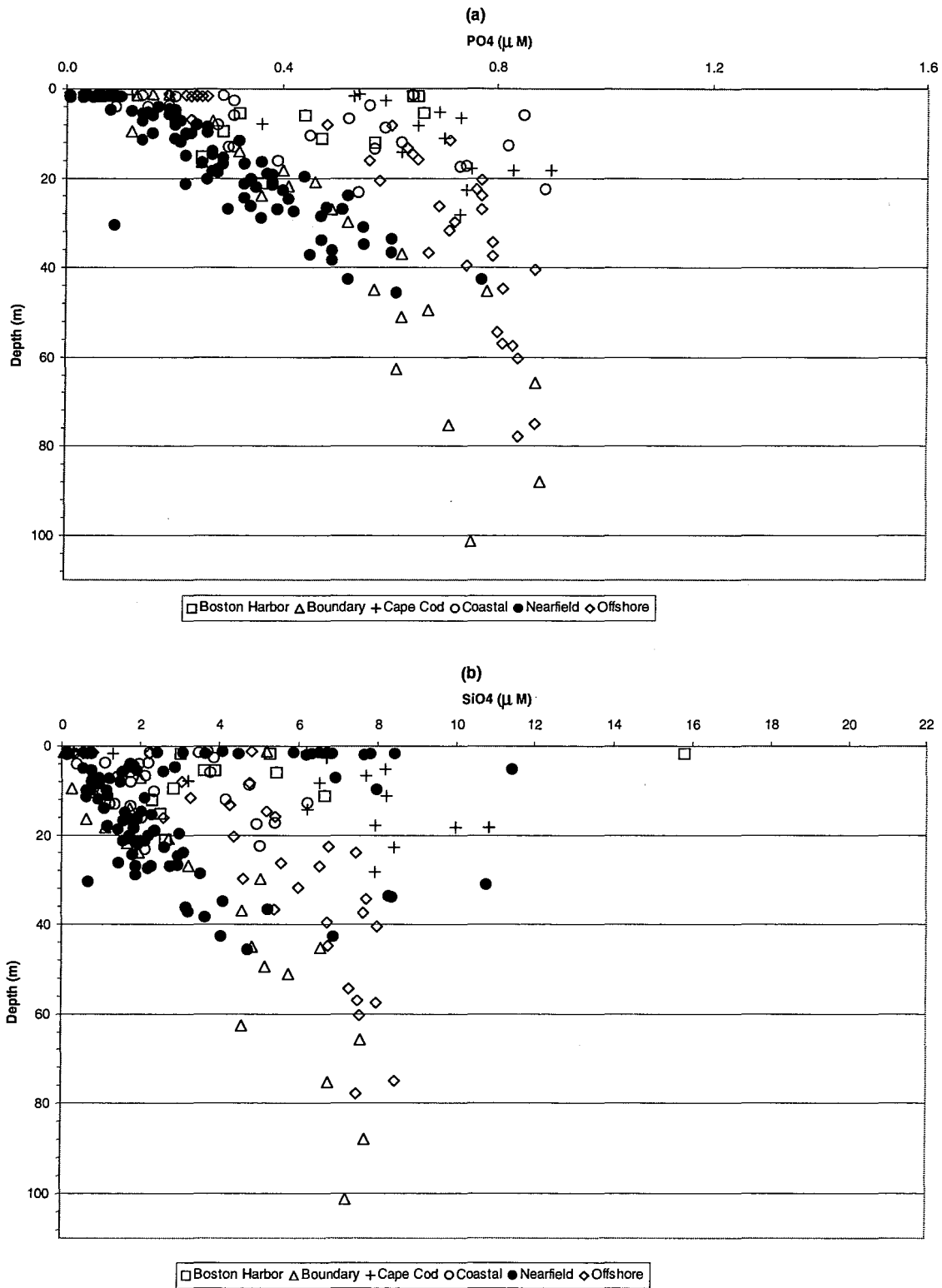


Figure D-93. Depth vs. Nutrient Plots for Farfield Survey WF987, (Jun 98)

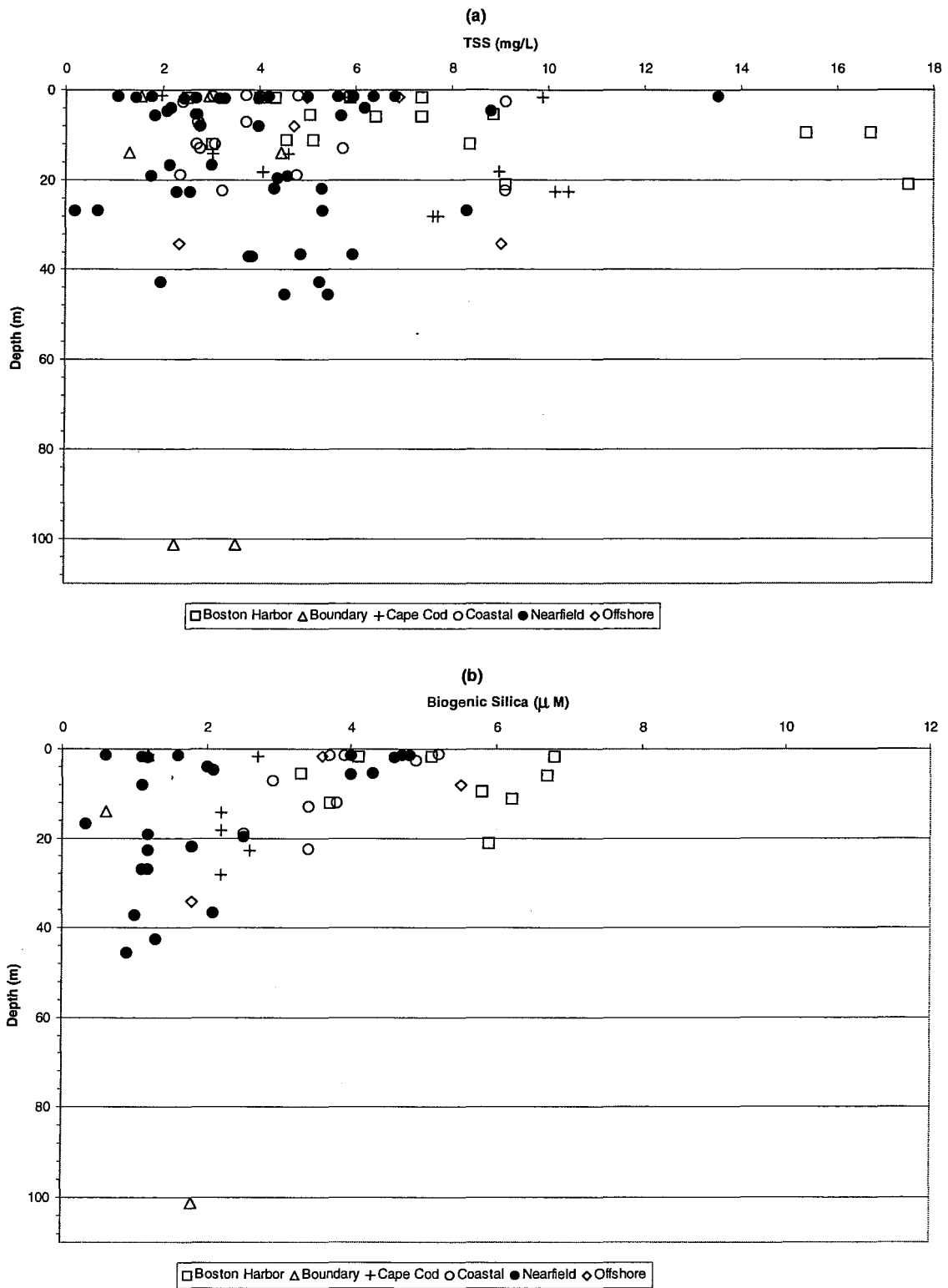


Figure D-94. Depth vs. Nutrient Plots for Farfield Survey WF987, (Jun 98)

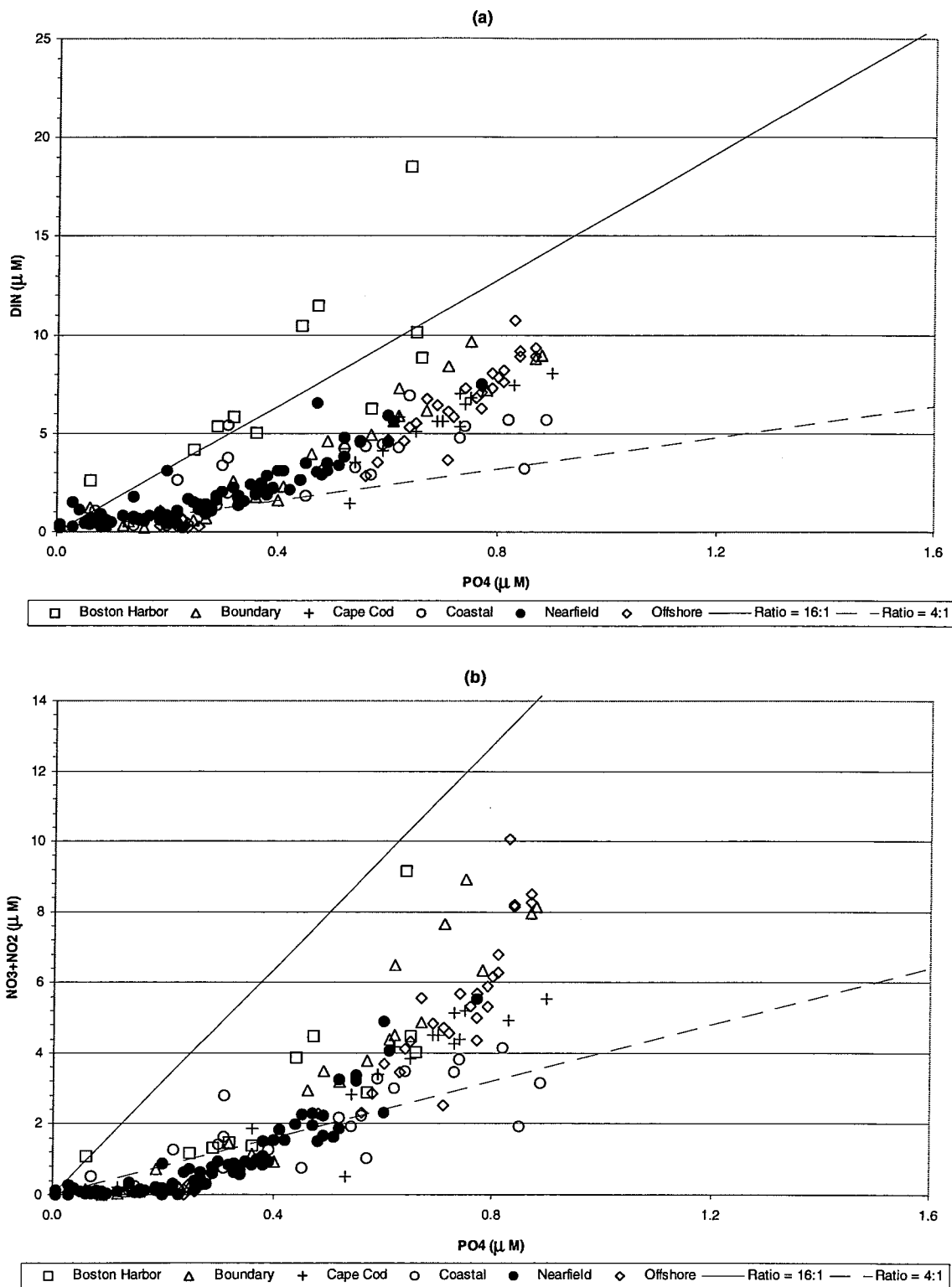


Figure D-95. Nutrient vs. Nutrient Plots for Farfield Survey WF987, (Jun 98)

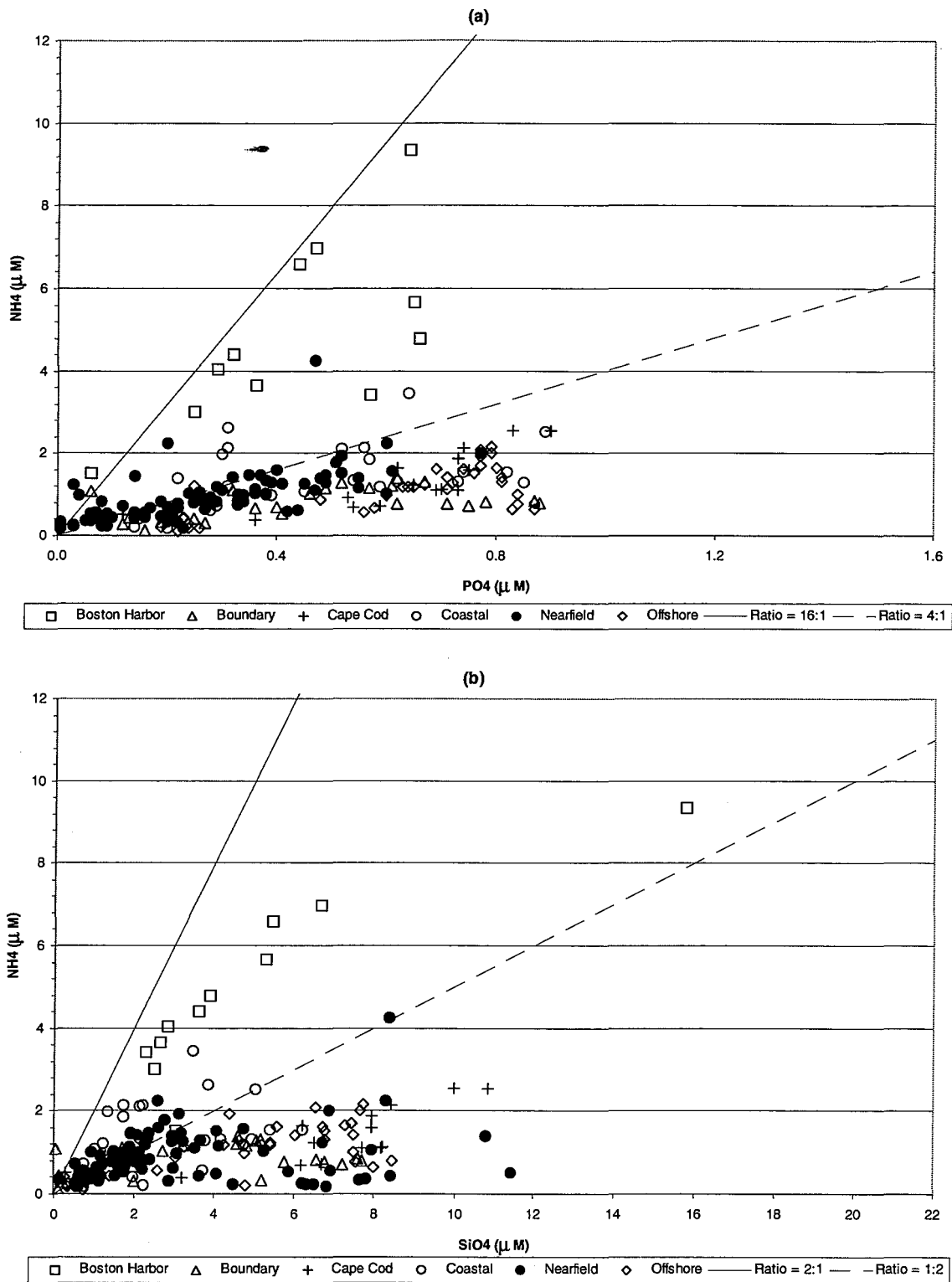


Figure D-96. Nutrient vs. Nutrient Plots for Farfield Survey WF987, (Jun 98)

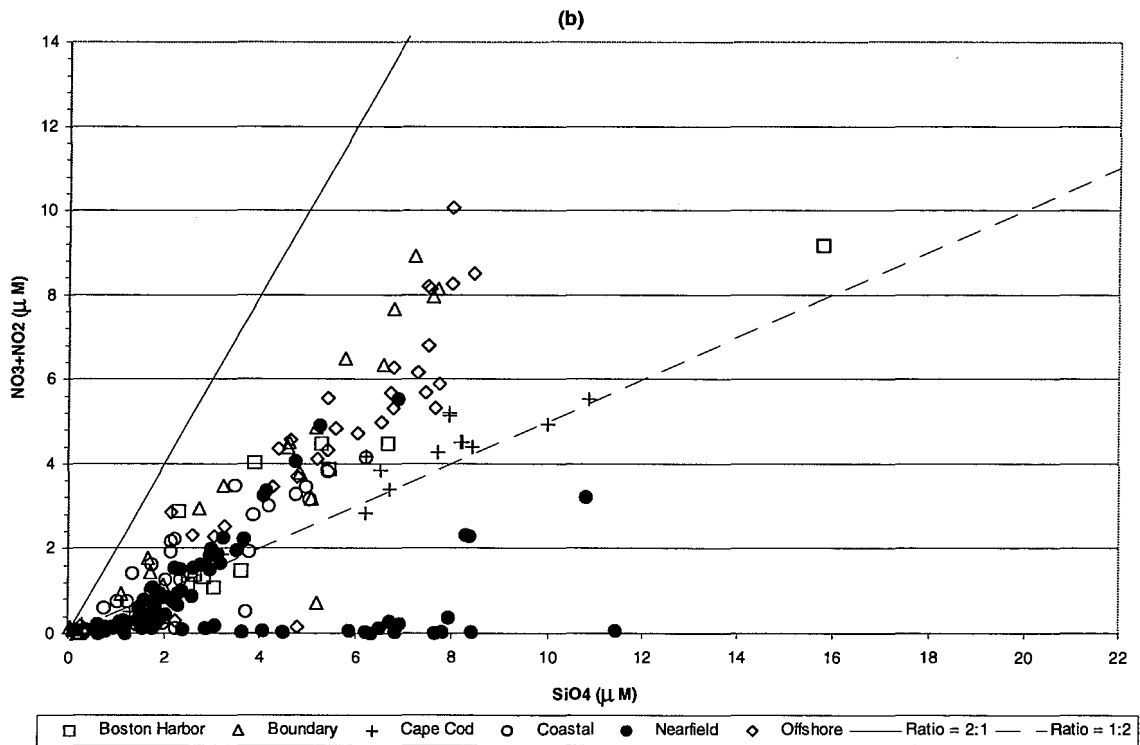
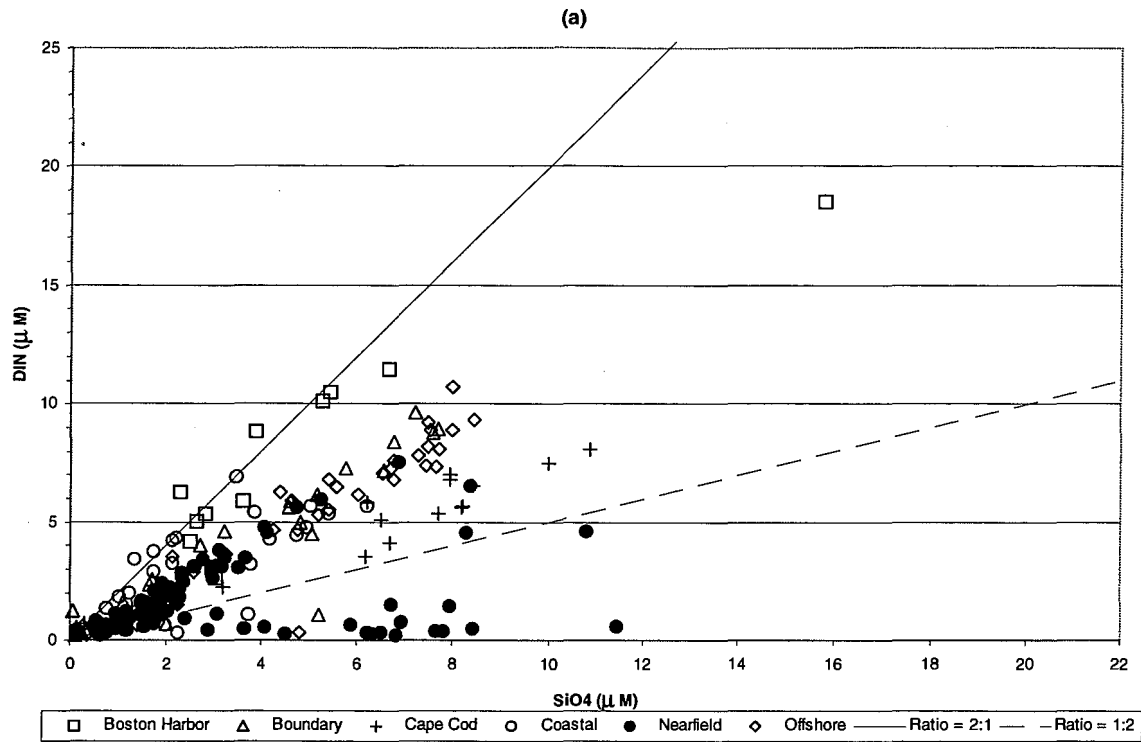


Figure D-97. Nutrient vs. Nutrient Plots for Farfield Survey WF987, (Jun 98)

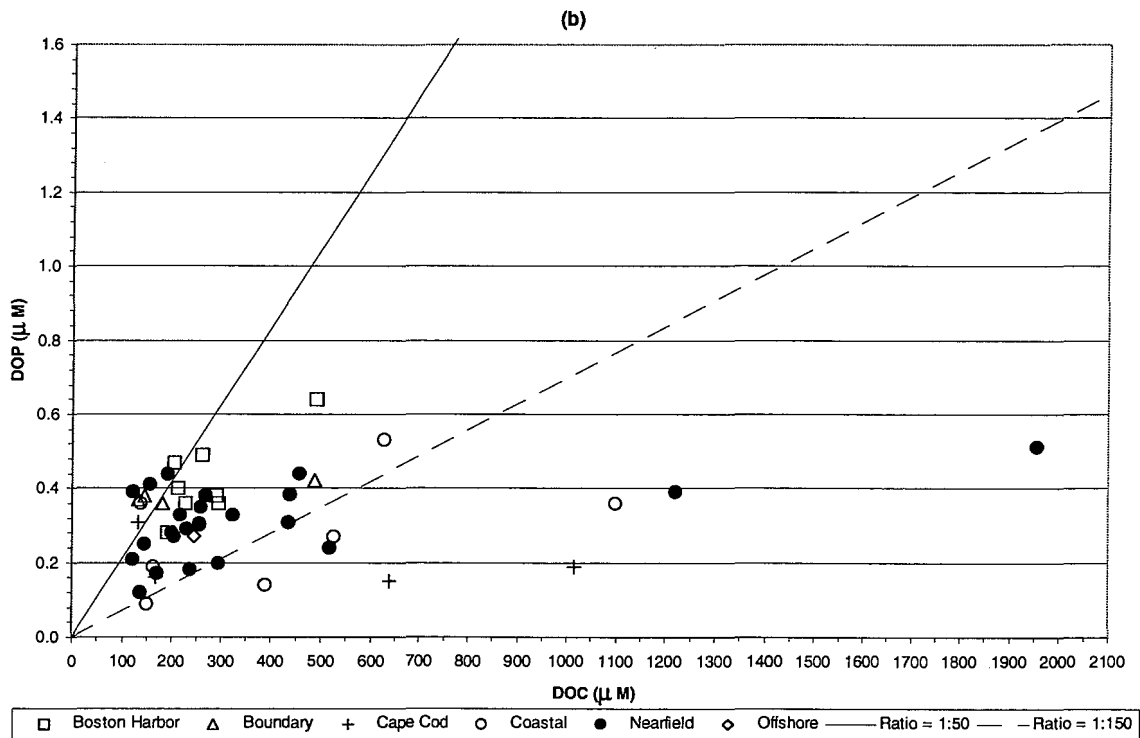
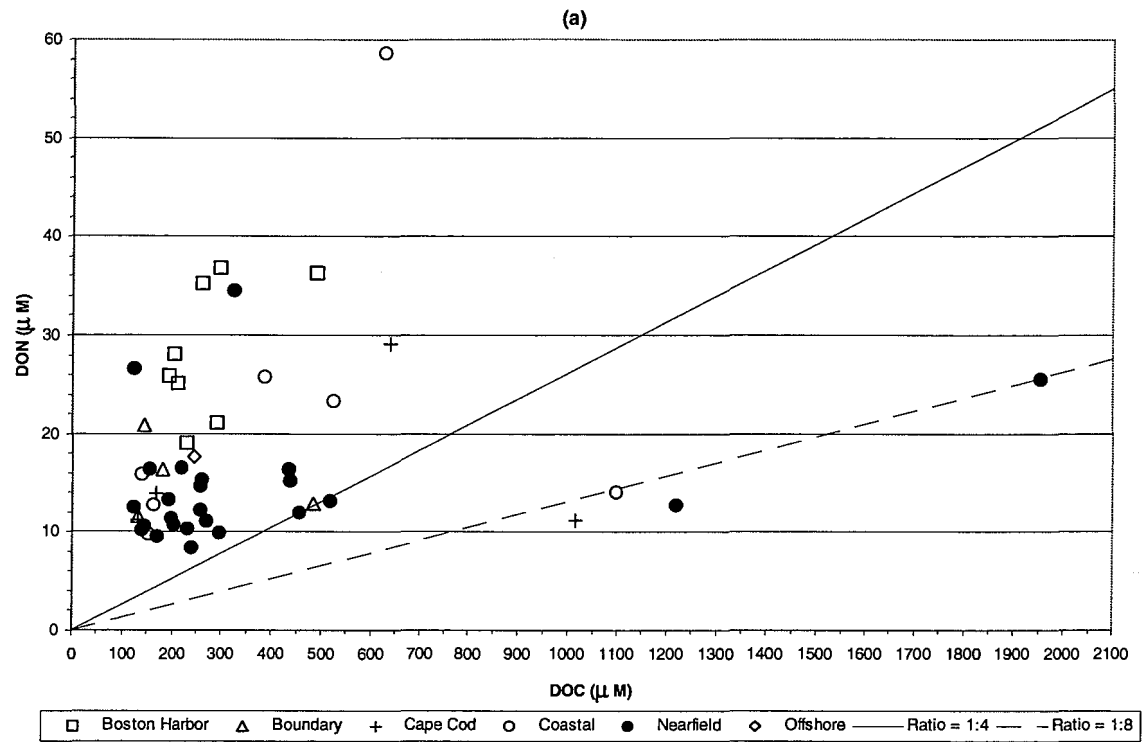


Figure D-98. Nutrient vs. Nutrient Plots for Farfield Survey WF987, (Jun 98)

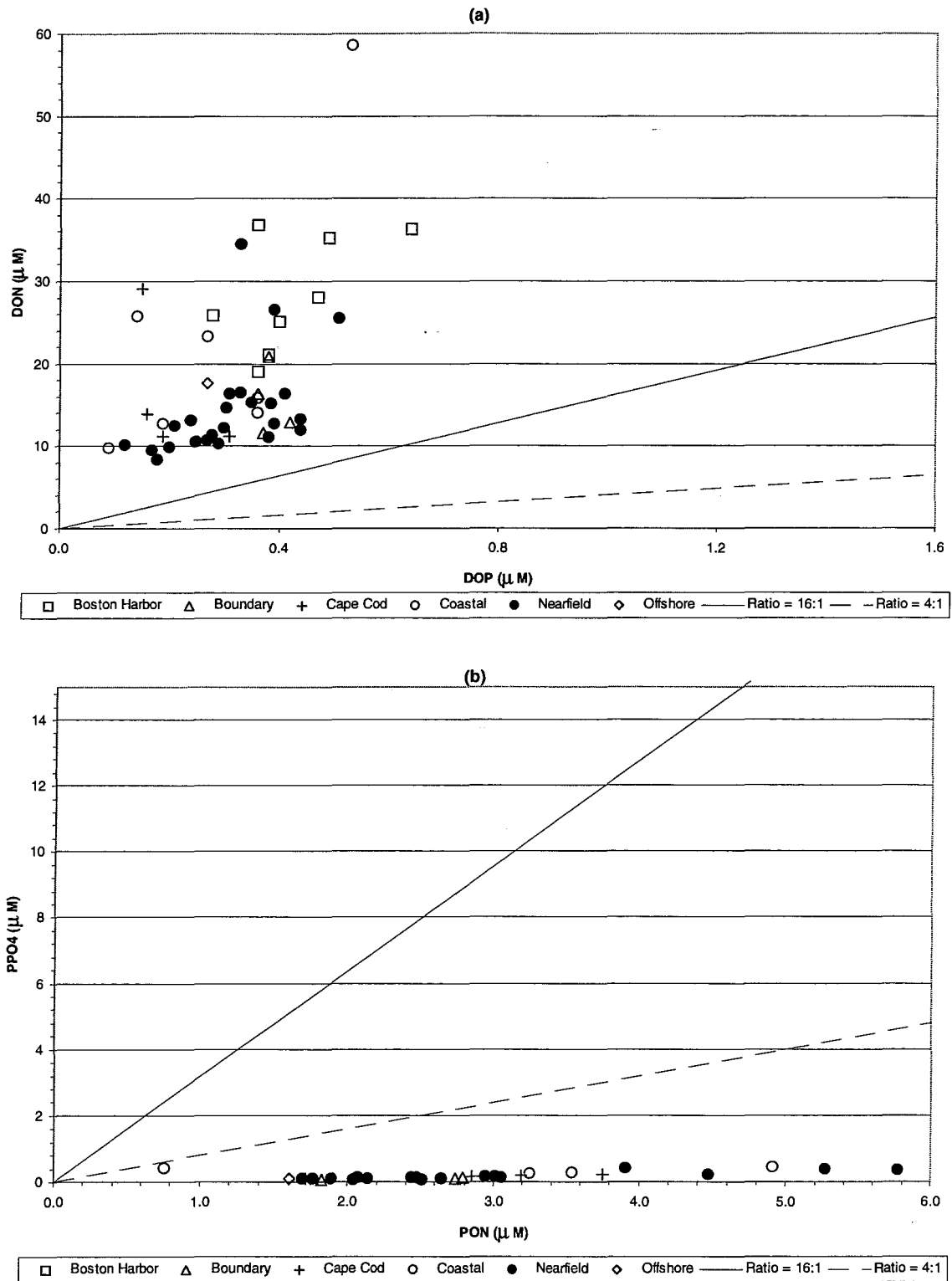


Figure D-99. Nutrient vs. Nutrient Plots for Farfield Survey WF987, (Jun 98)

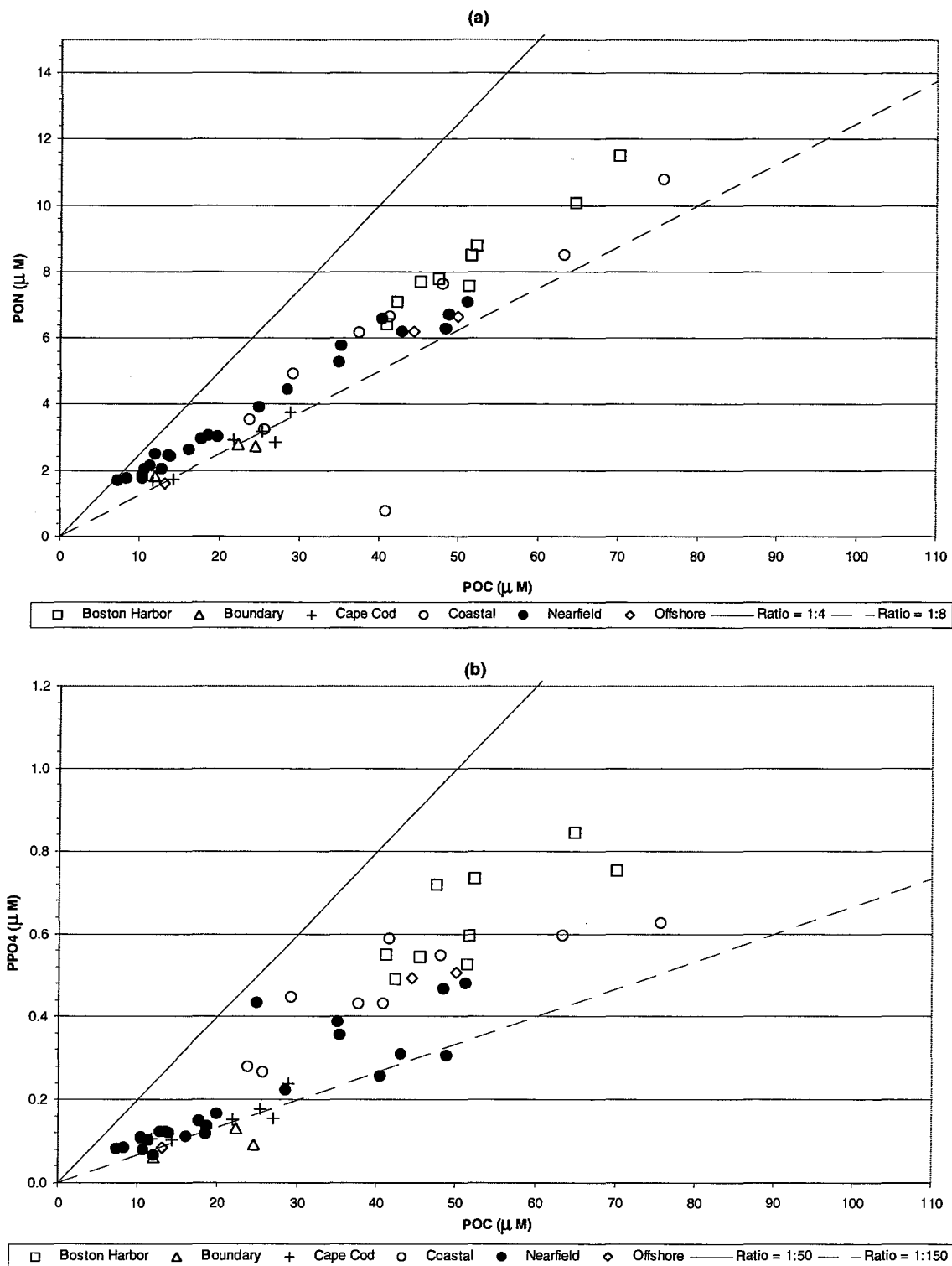


Figure D-100. Nutrient vs. Nutrient Plots for Farfield Survey WF987, (Jun 98)

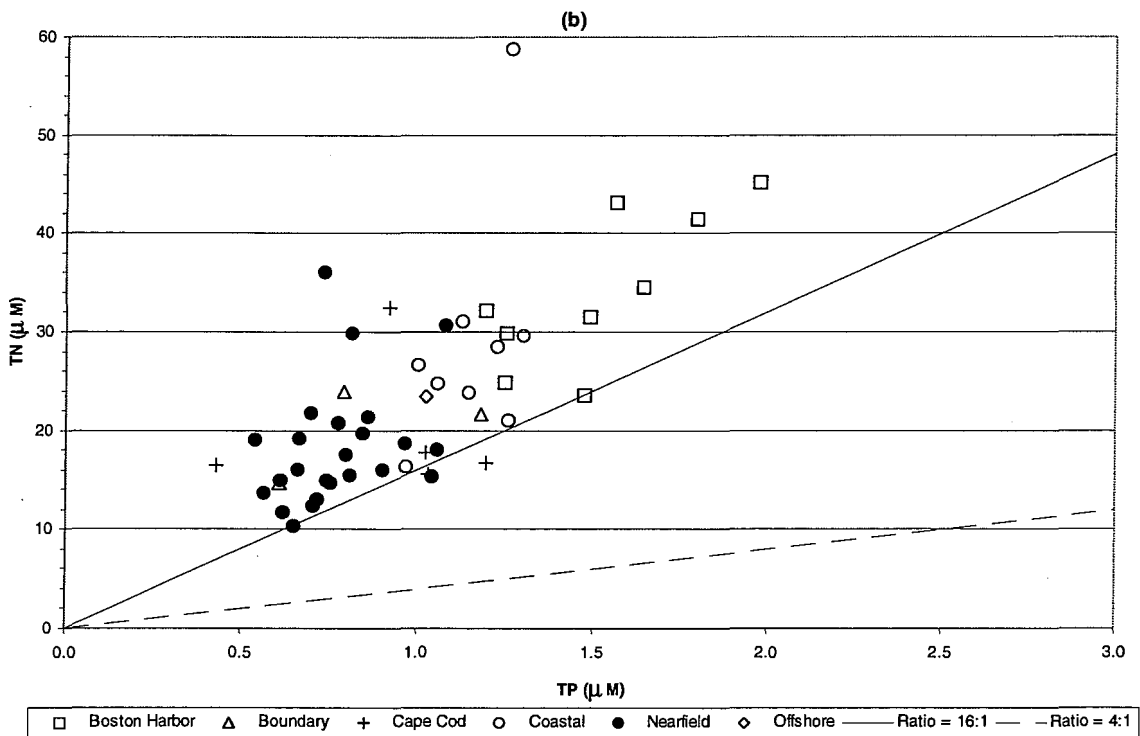
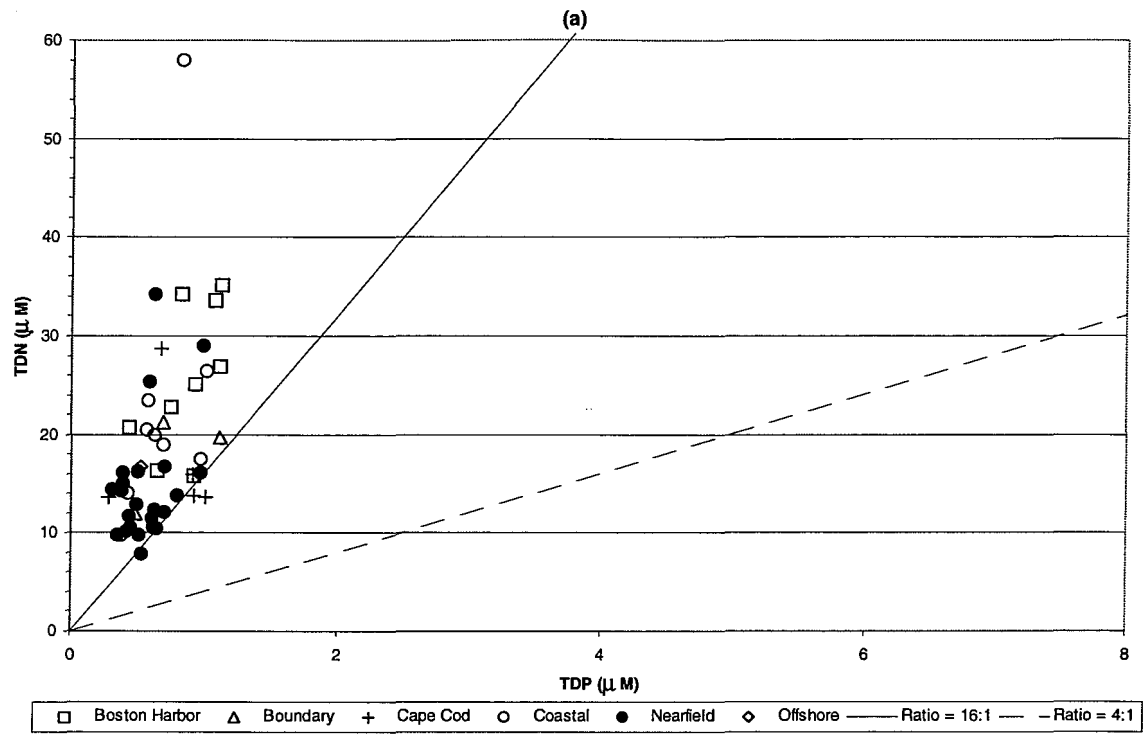


Figure D-101. Nutrient vs. Nutrient Plots for Farfield Survey WF987, (Jun 98)

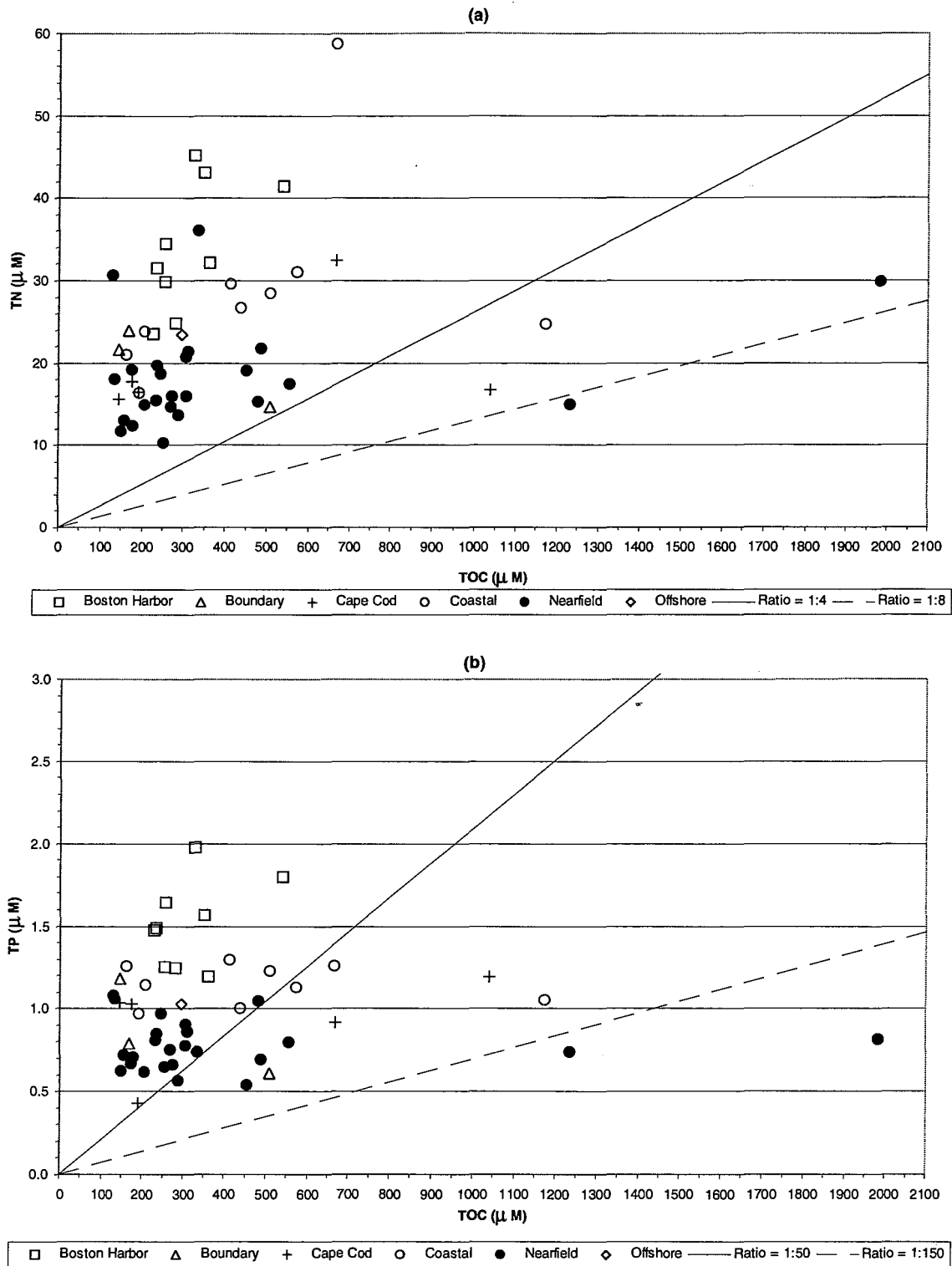


Figure D-102. Nutrient vs. Nutrient Plots for Farfield Survey WF987, (Jun 98)

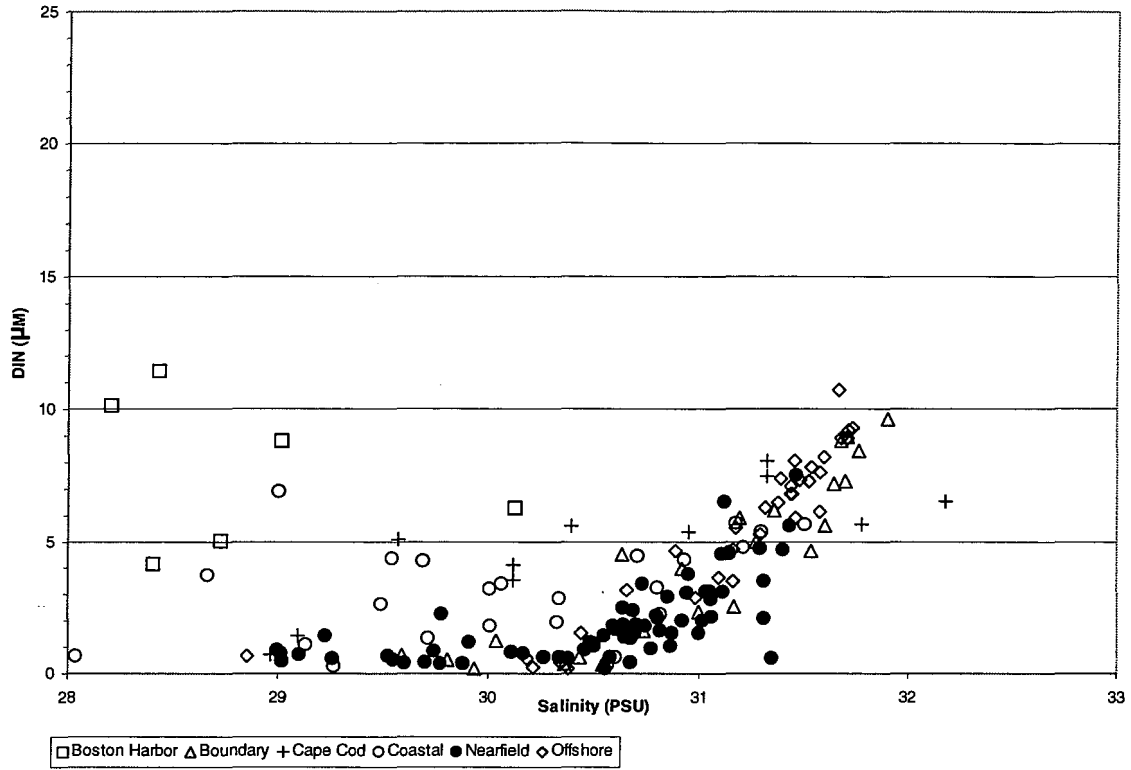


Figure D-103. Nutrient vs. Salinity Plots for Farfield Survey WF987, (Jun 98)

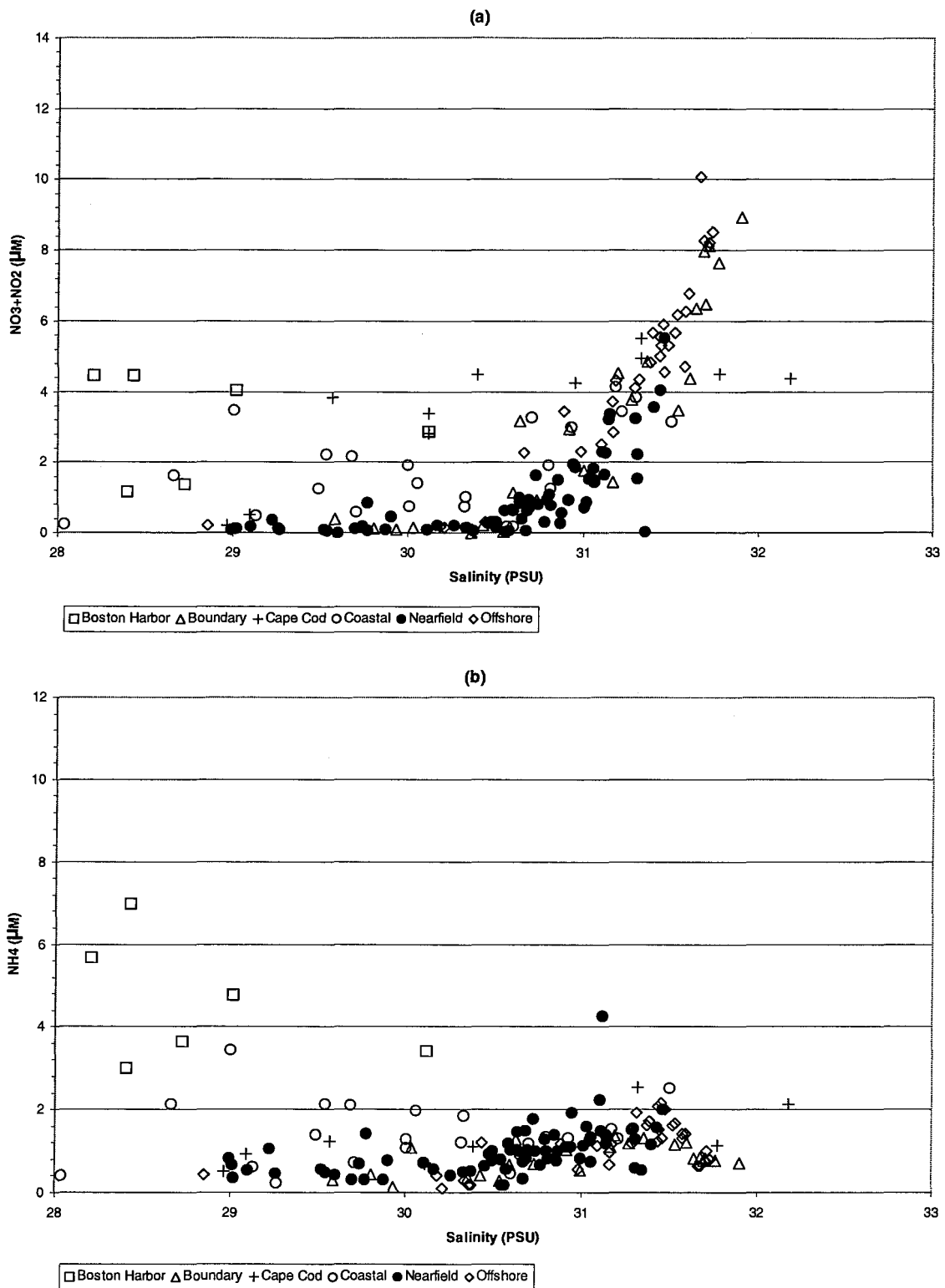


Figure D-104. Nutrient vs. Salinity Plots for Farfield Survey WF987, (Jun 98)

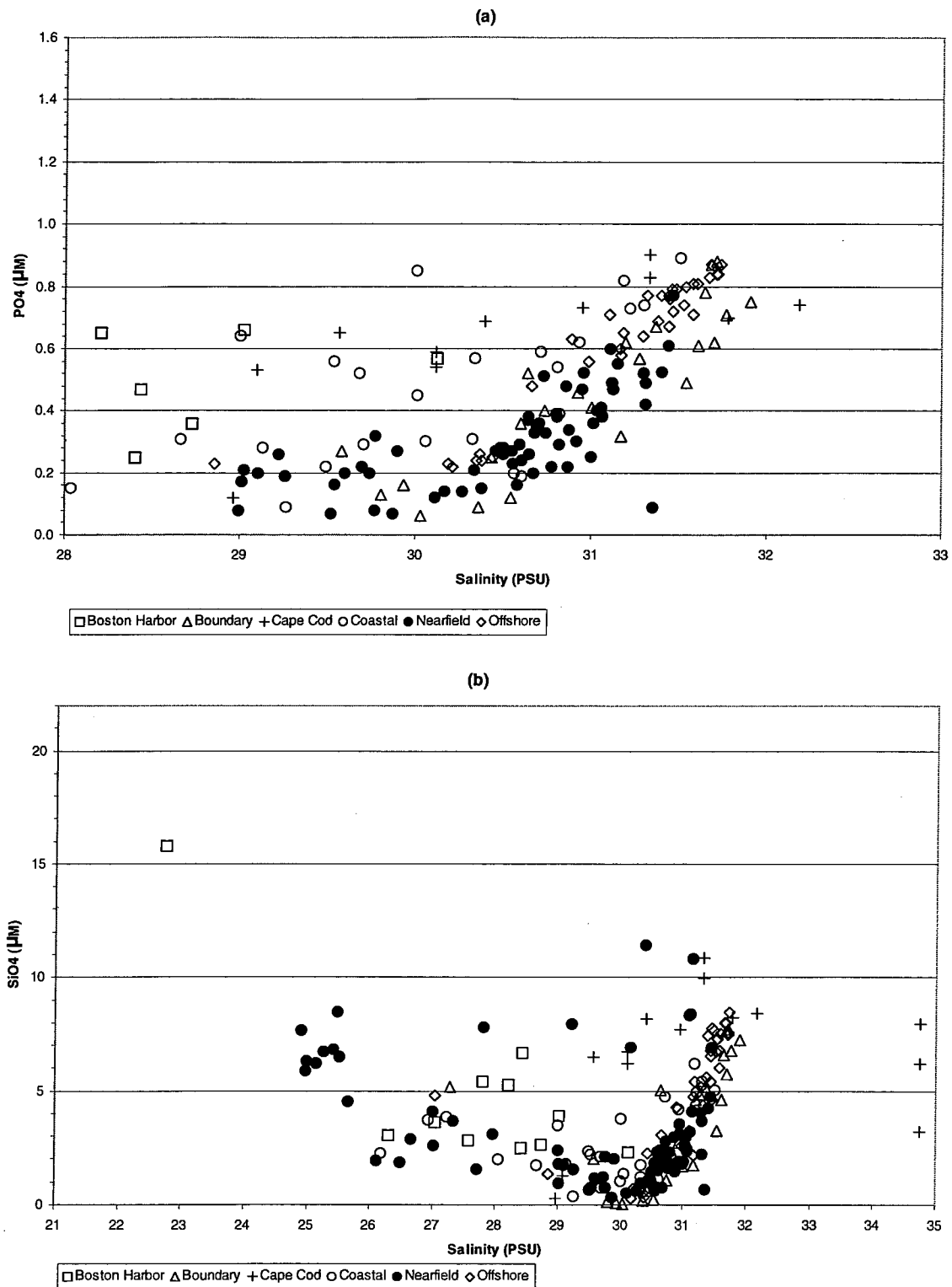


Figure D-105. Nutrient vs. Salinity Plots for Farfield Survey WF987, (Jun 98)

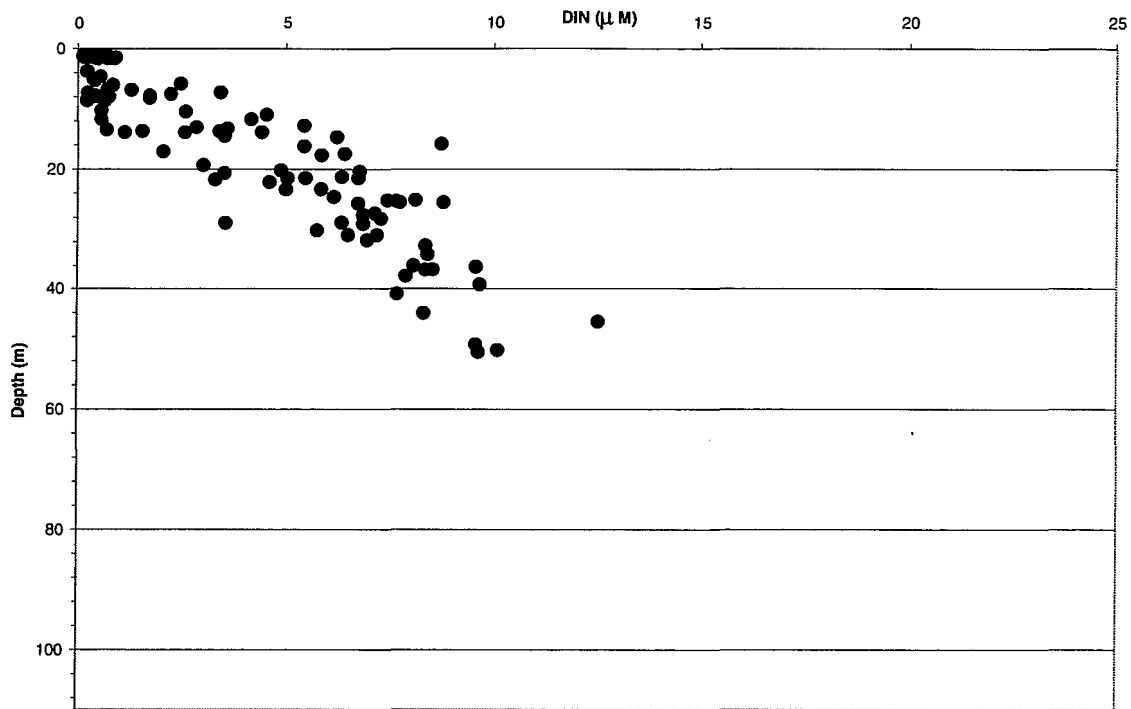


Figure D-106. Depth vs. Nutrient Plots for Nearfield Survey WN988, (Jul 98)

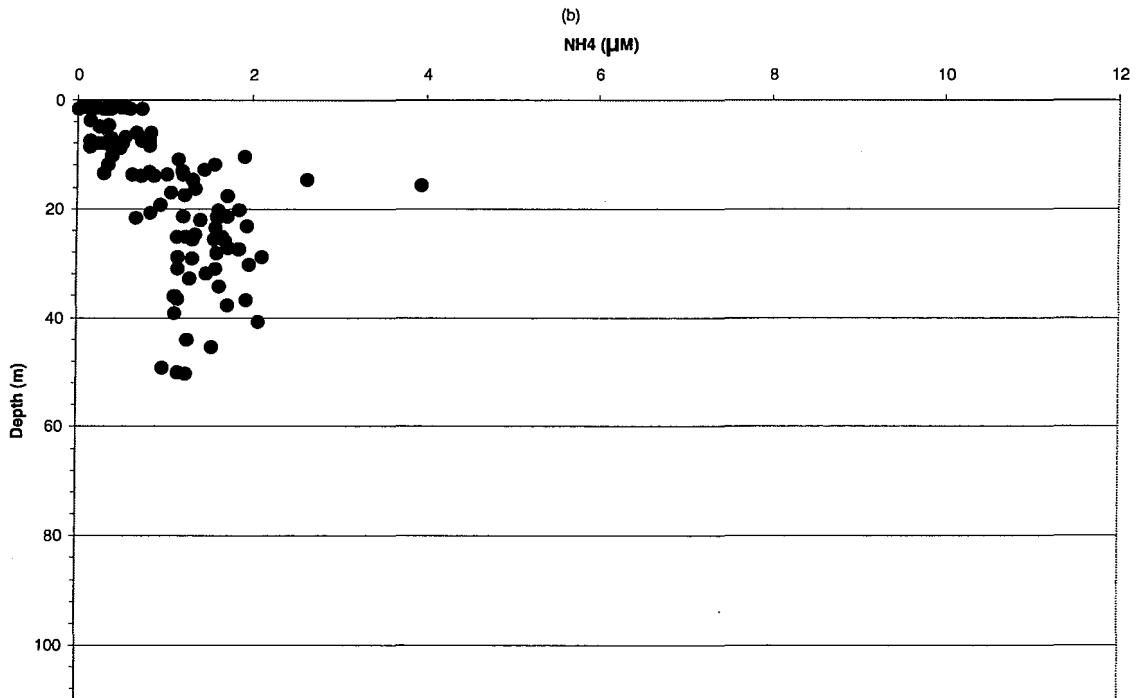
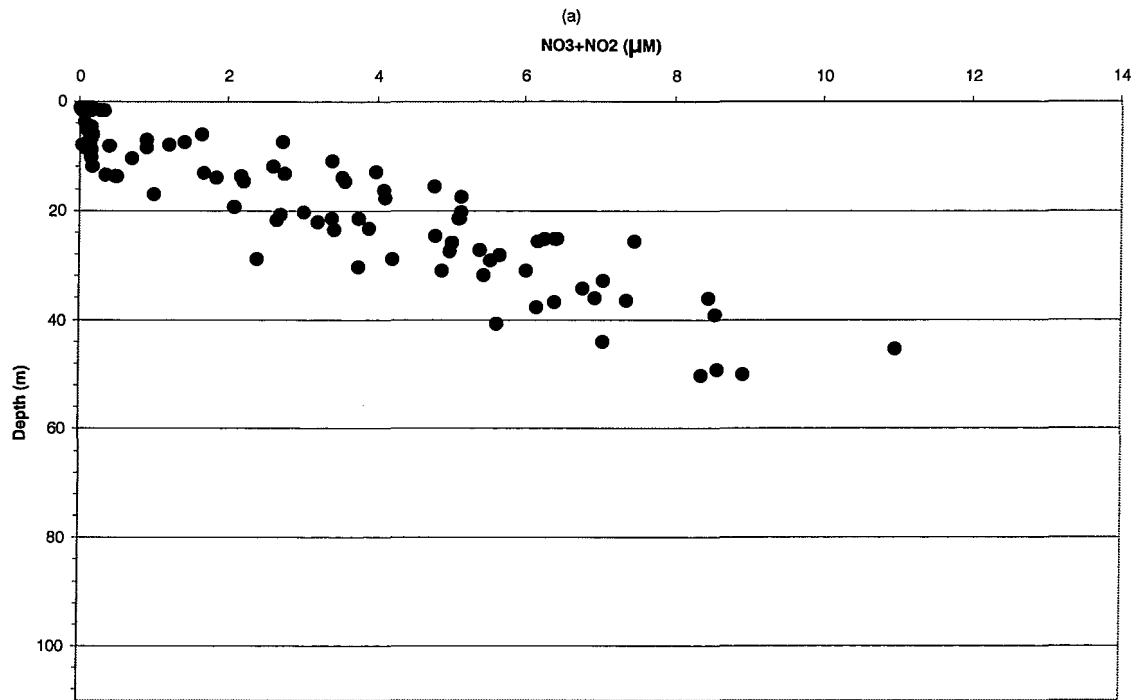


Figure D-107. Depth vs. Nutrient Plots for Nearfield Survey WN988, (Jul 98)

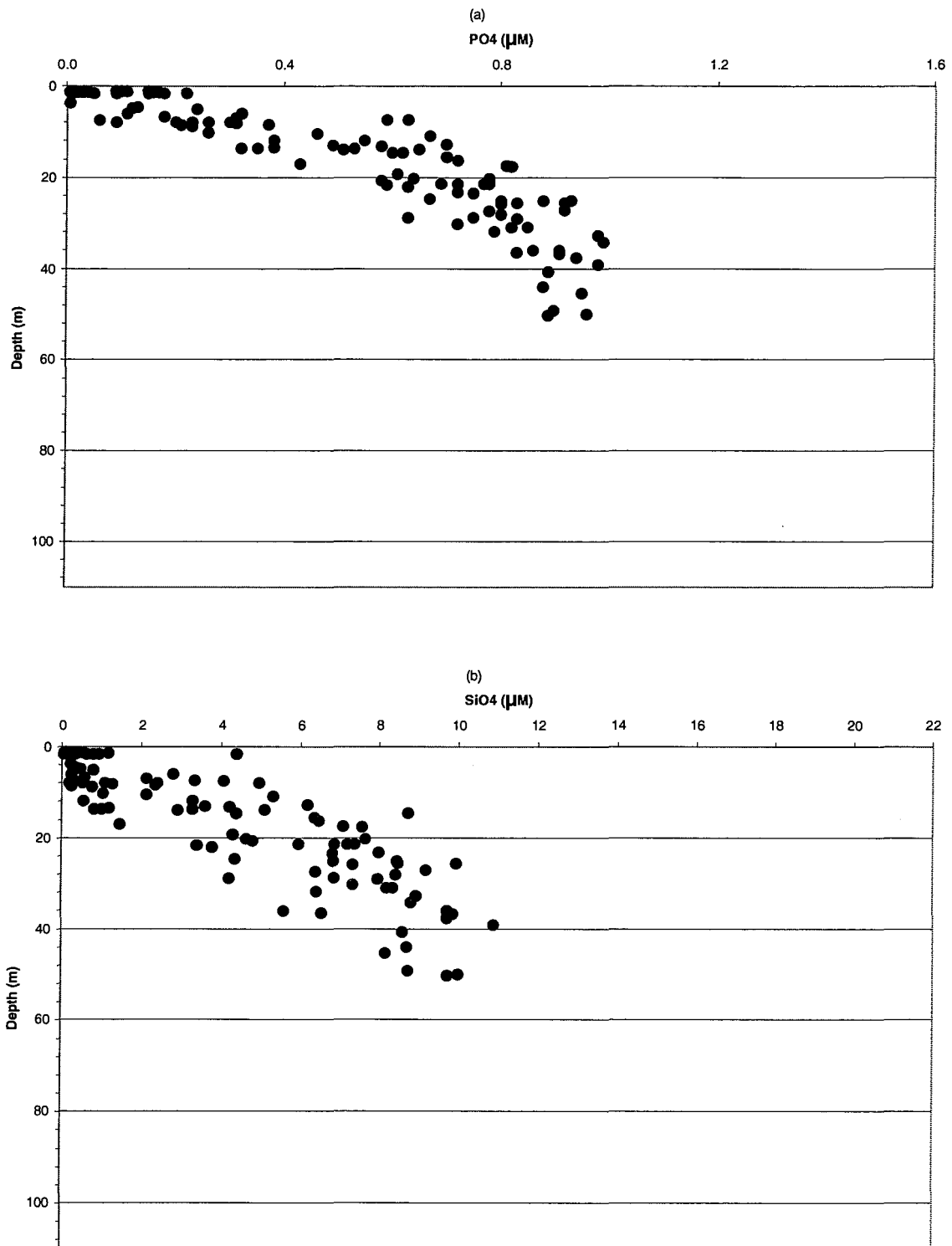


Figure D-108. Depth vs. Nutrient Plots for Nearfield Survey WN988, (Jul 98)

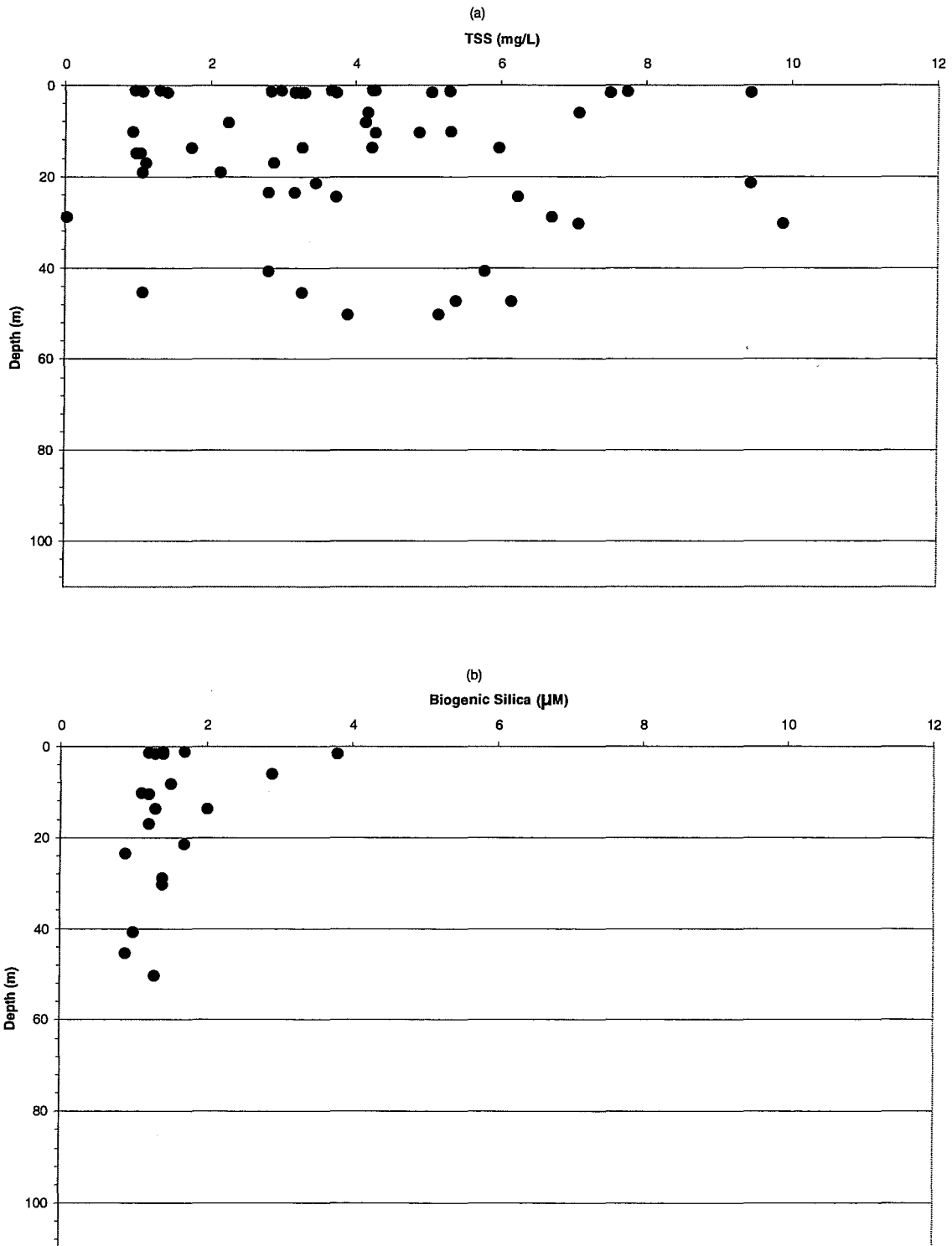


Figure D-109. Depth vs. Nutrient Plots for Nearfield Survey WN988, (Jul 98)

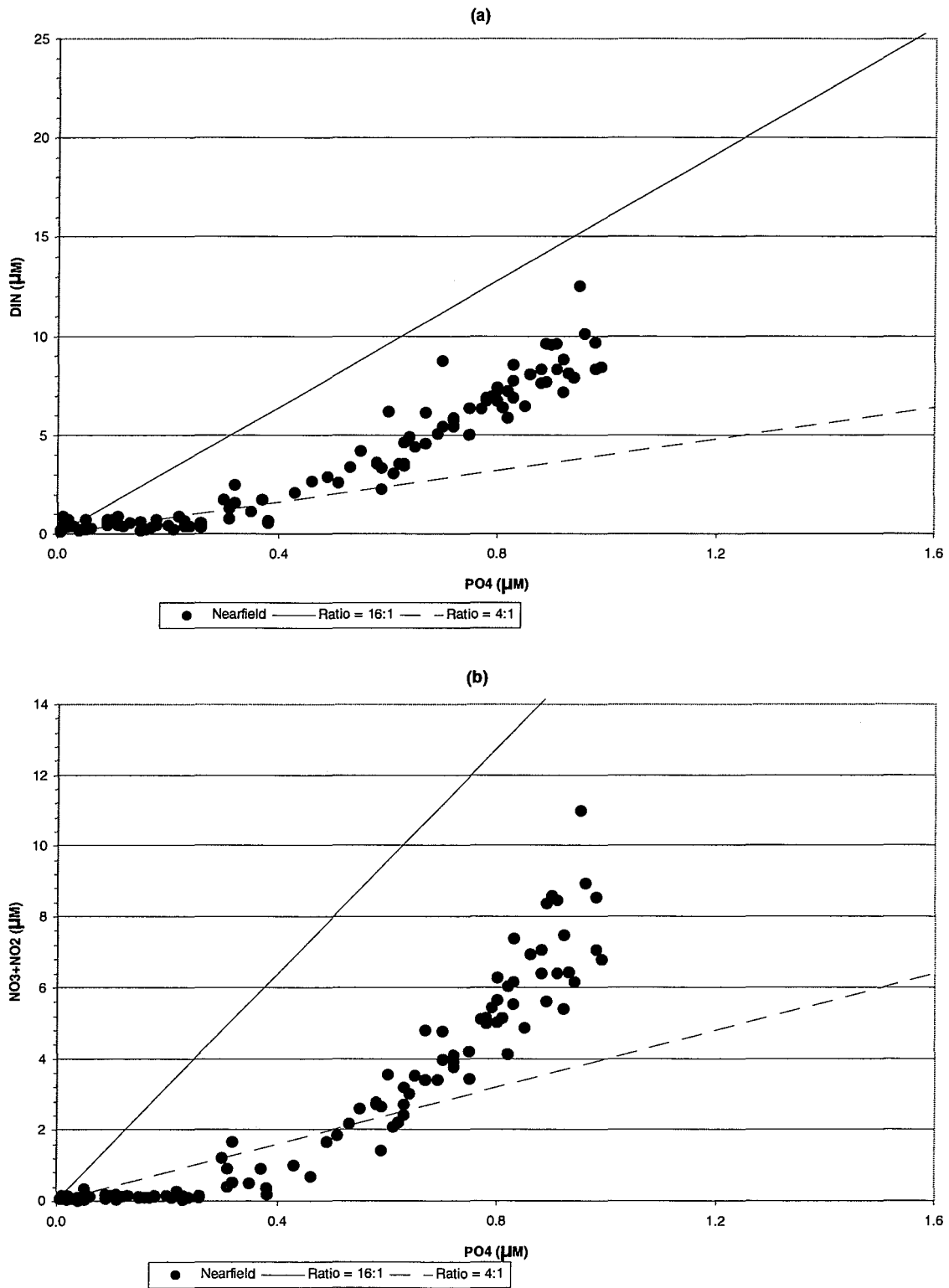


Figure D-110. Nutrient vs. Nutrient Plots for Nearfield Survey WN988, (Jul 98)

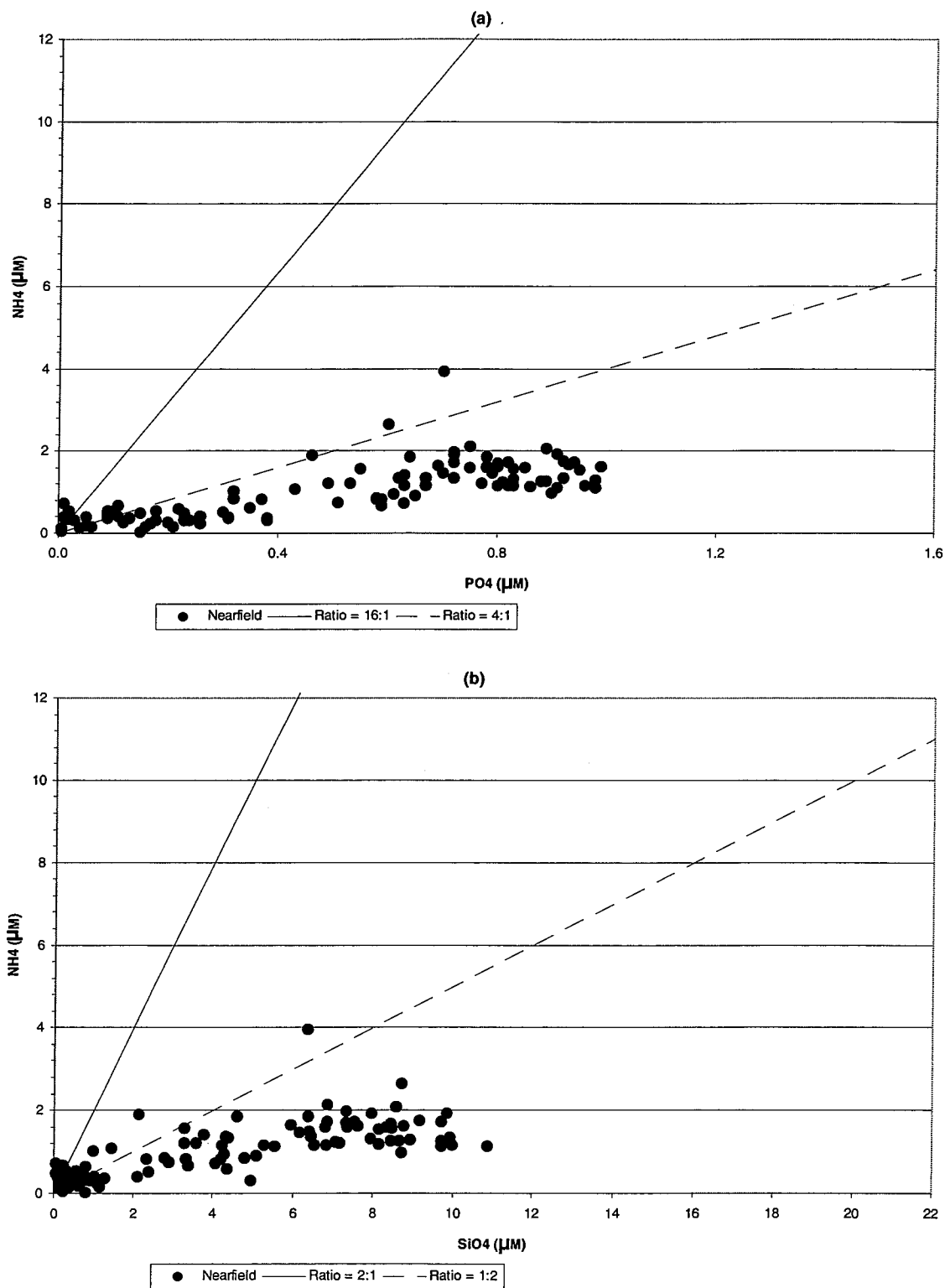


Figure D-111. Nutrient vs. Nutrient Plots for Nearfield Survey WN988, (Jul 98)

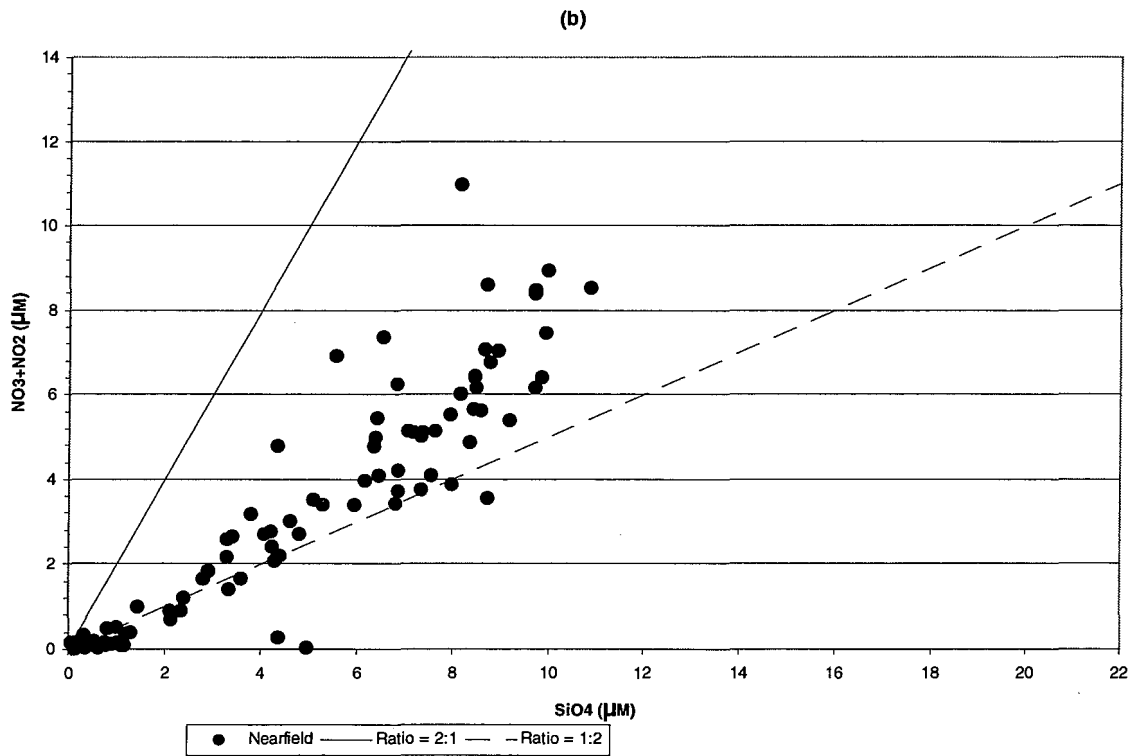
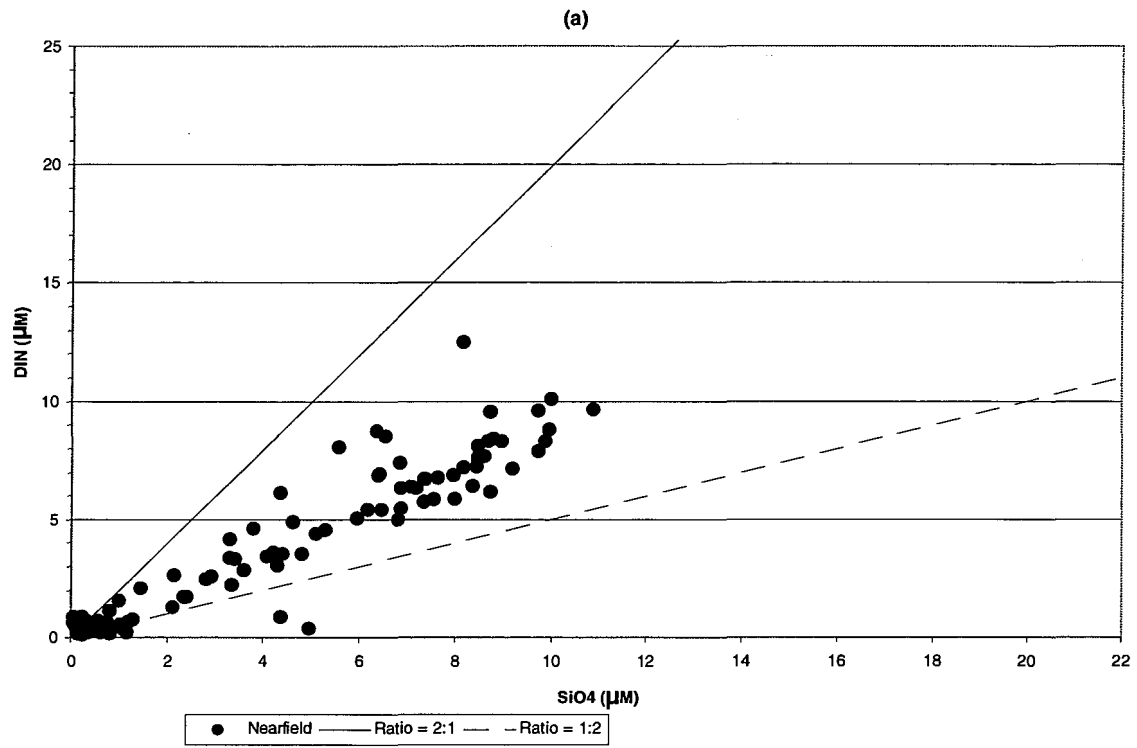


Figure D-112. Nutrient vs. Nutrient Plots for Nearfield Survey WN988, (Jul 98)

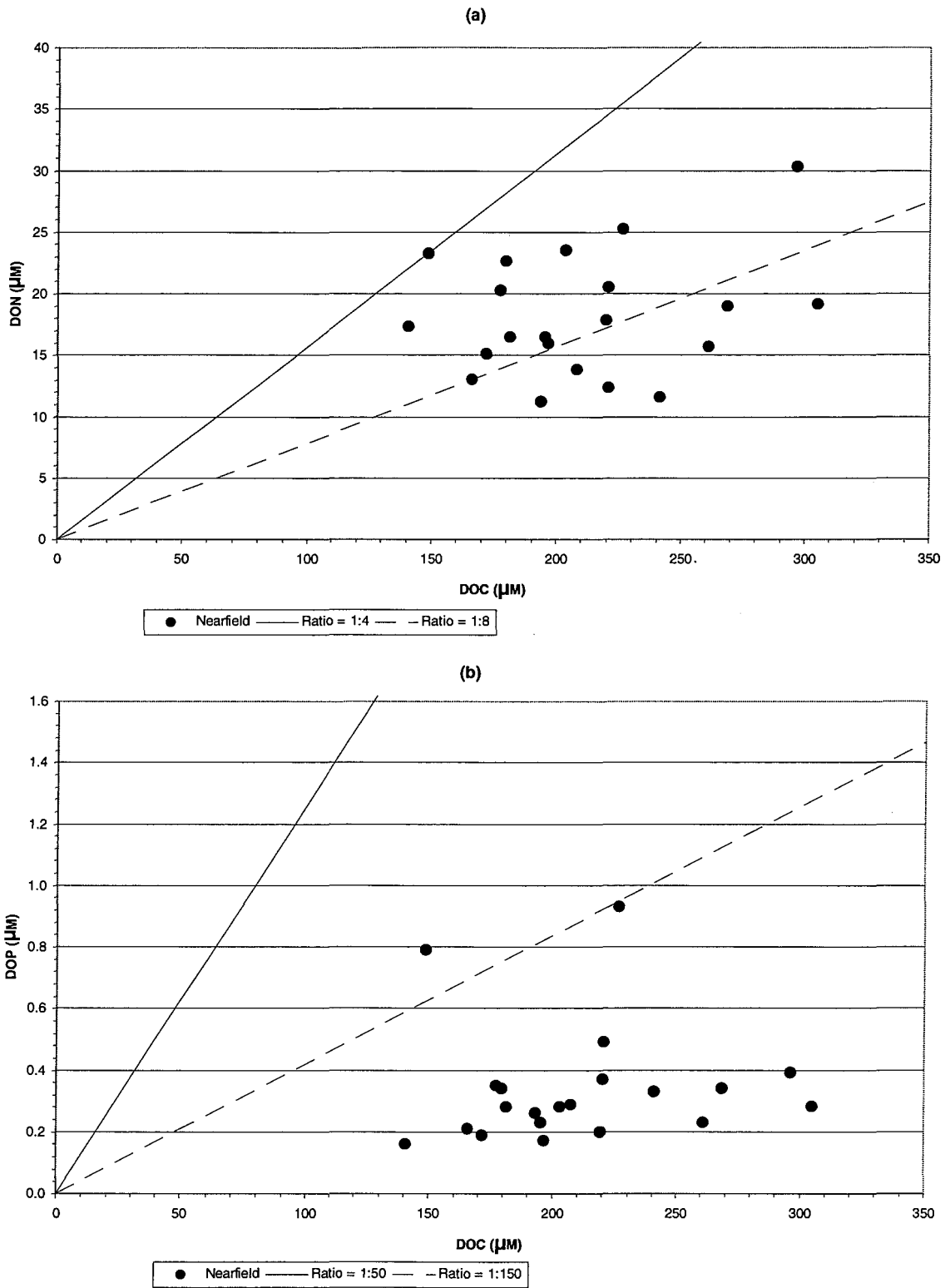


Figure D-113. Nutrient vs. Nutrient Plots for Nearfield Survey WN988, (Jul 98)

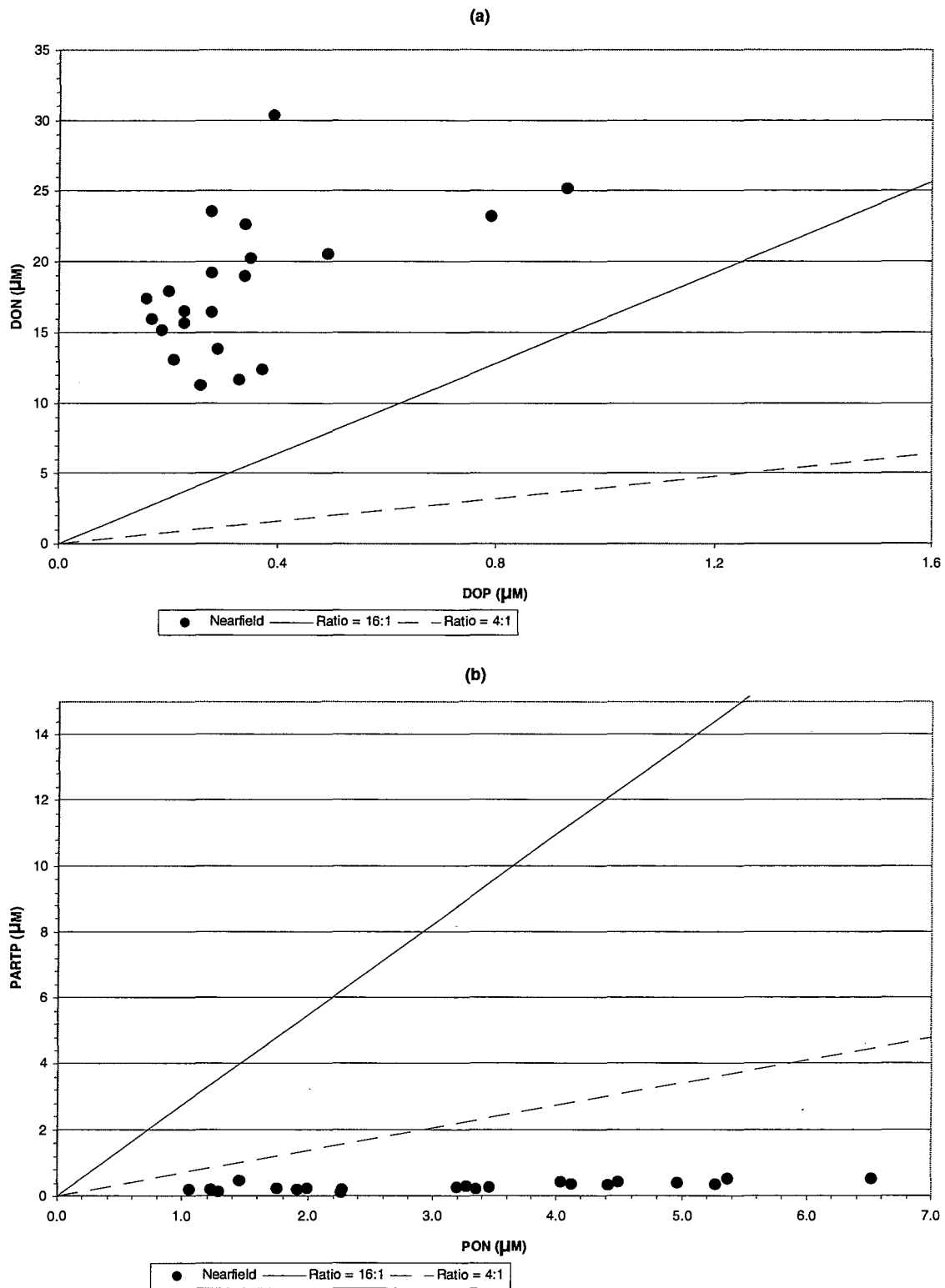


Figure D-114. Nutrient vs. Nutrient Plots for Nearfield Survey WN988, (Jul 98)

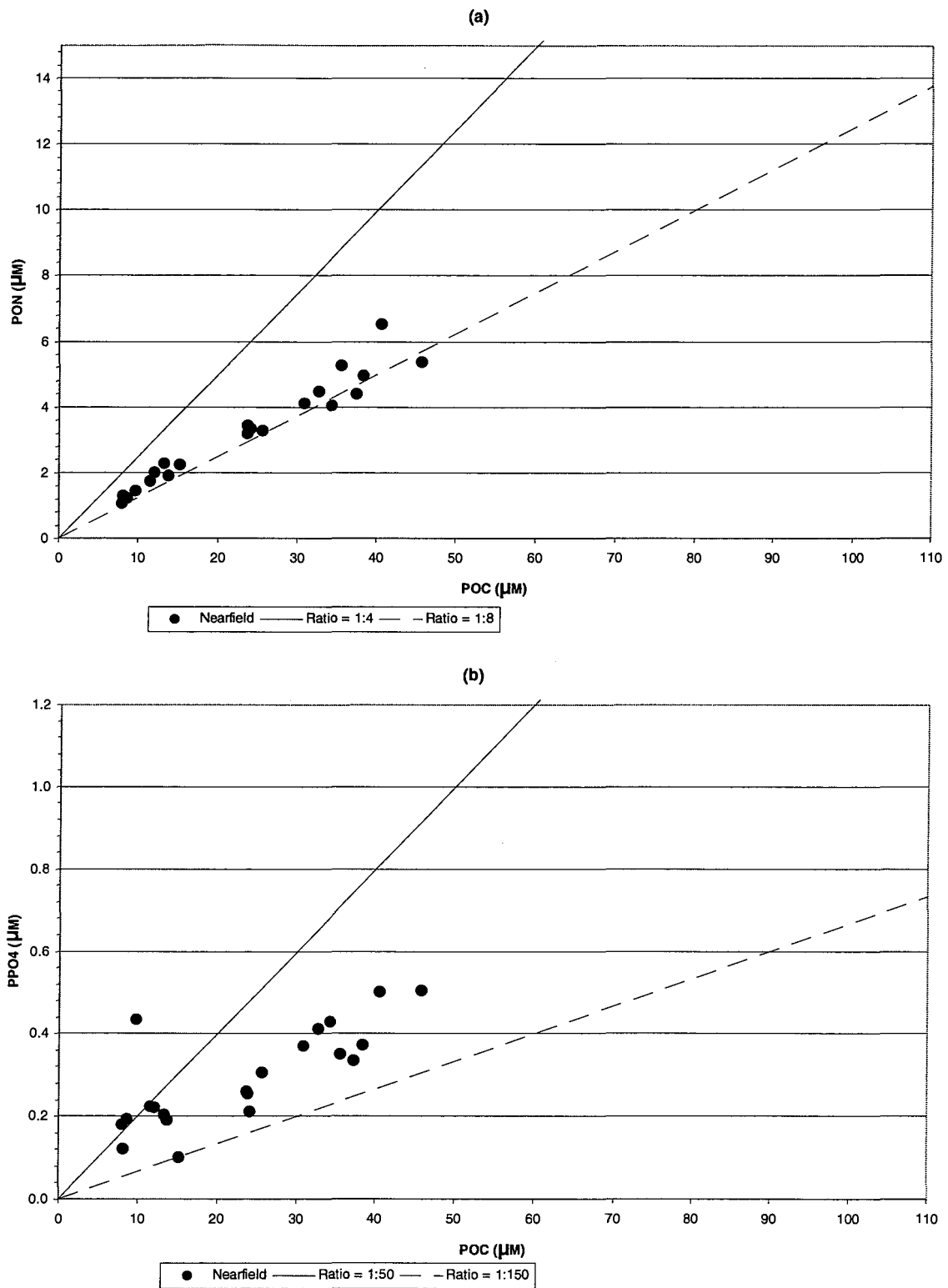


Figure D-115. Nutrient vs. Nutrient Plots for Nearfield Survey WN988, (Jul 98)

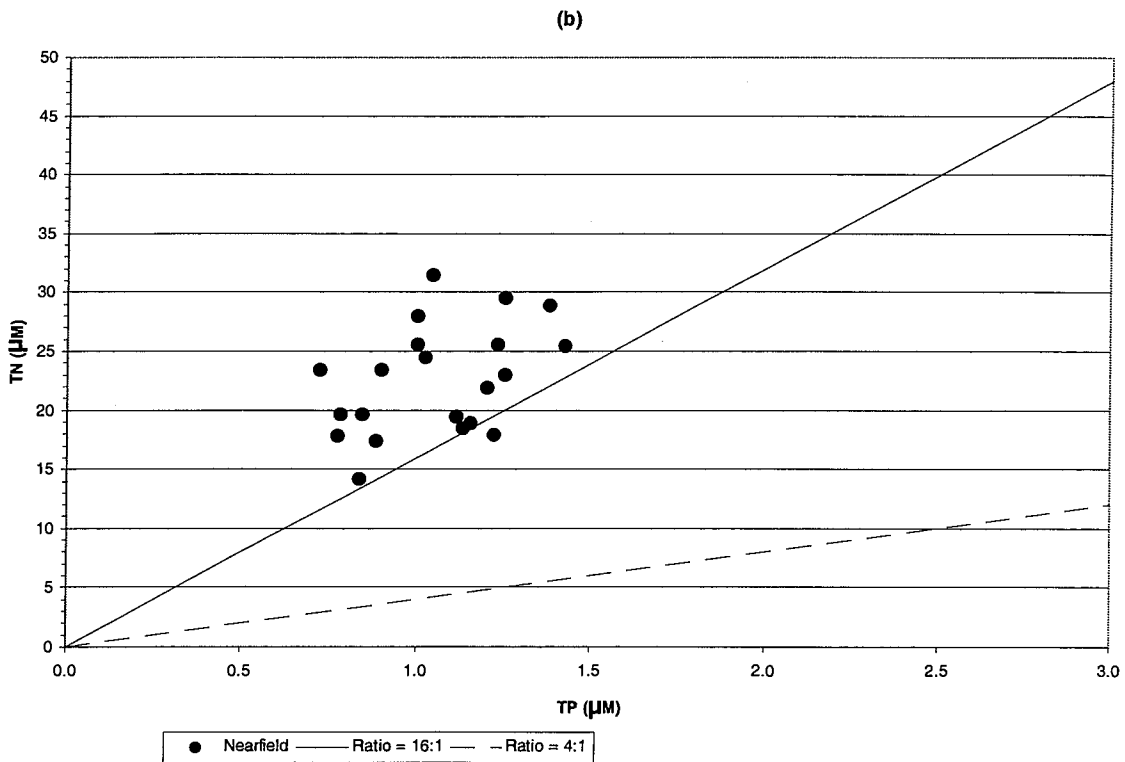
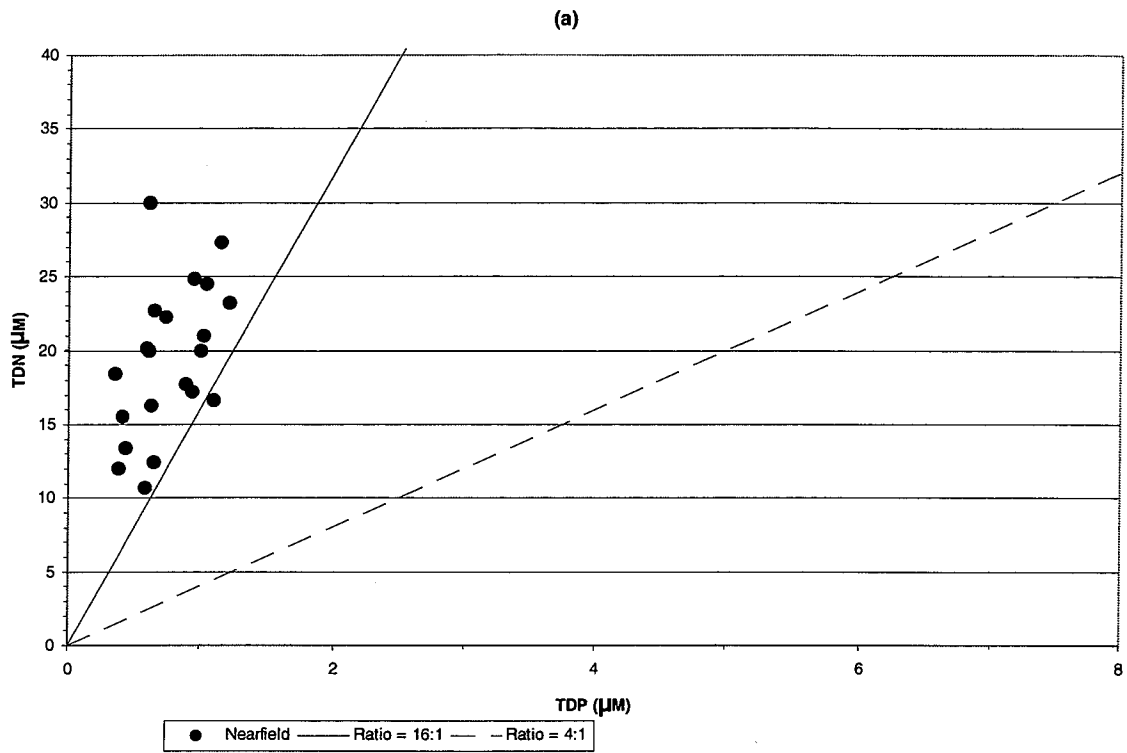


Figure D-116. Nutrient vs. Nutrient Plots for Nearfield Survey WN988, (Jul 98)

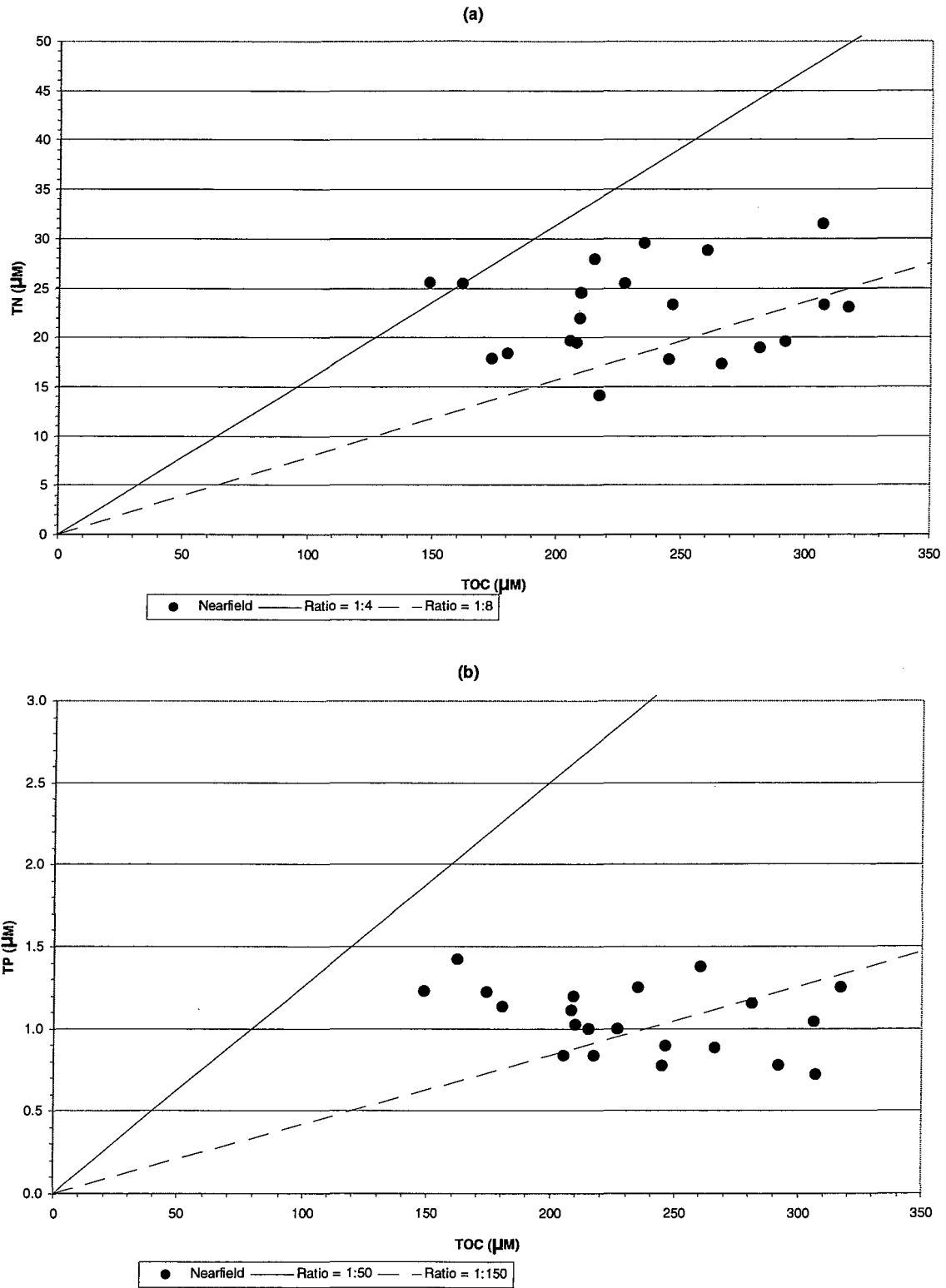


Figure D-17. Nutrient vs. Nutrient Plots for Nearfield Survey WN988, (Jul 98)

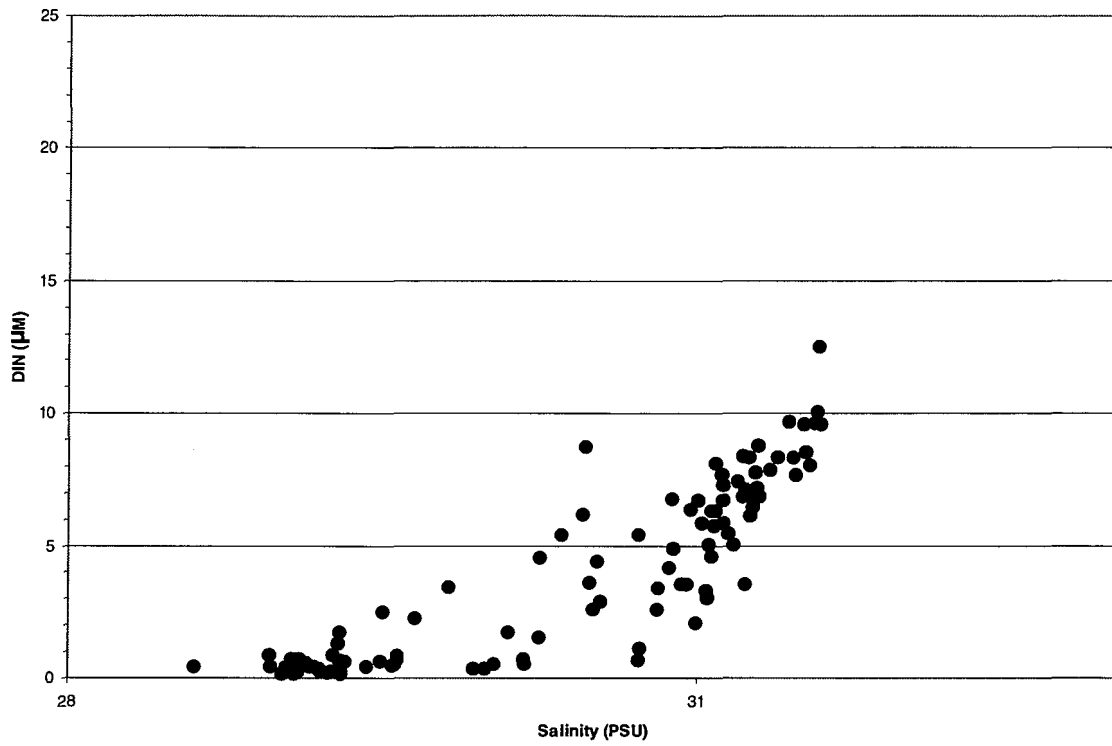


Figure D-118. Nutrient vs. Salinity Plots for Nearfield Survey WN988, (Jul 98)

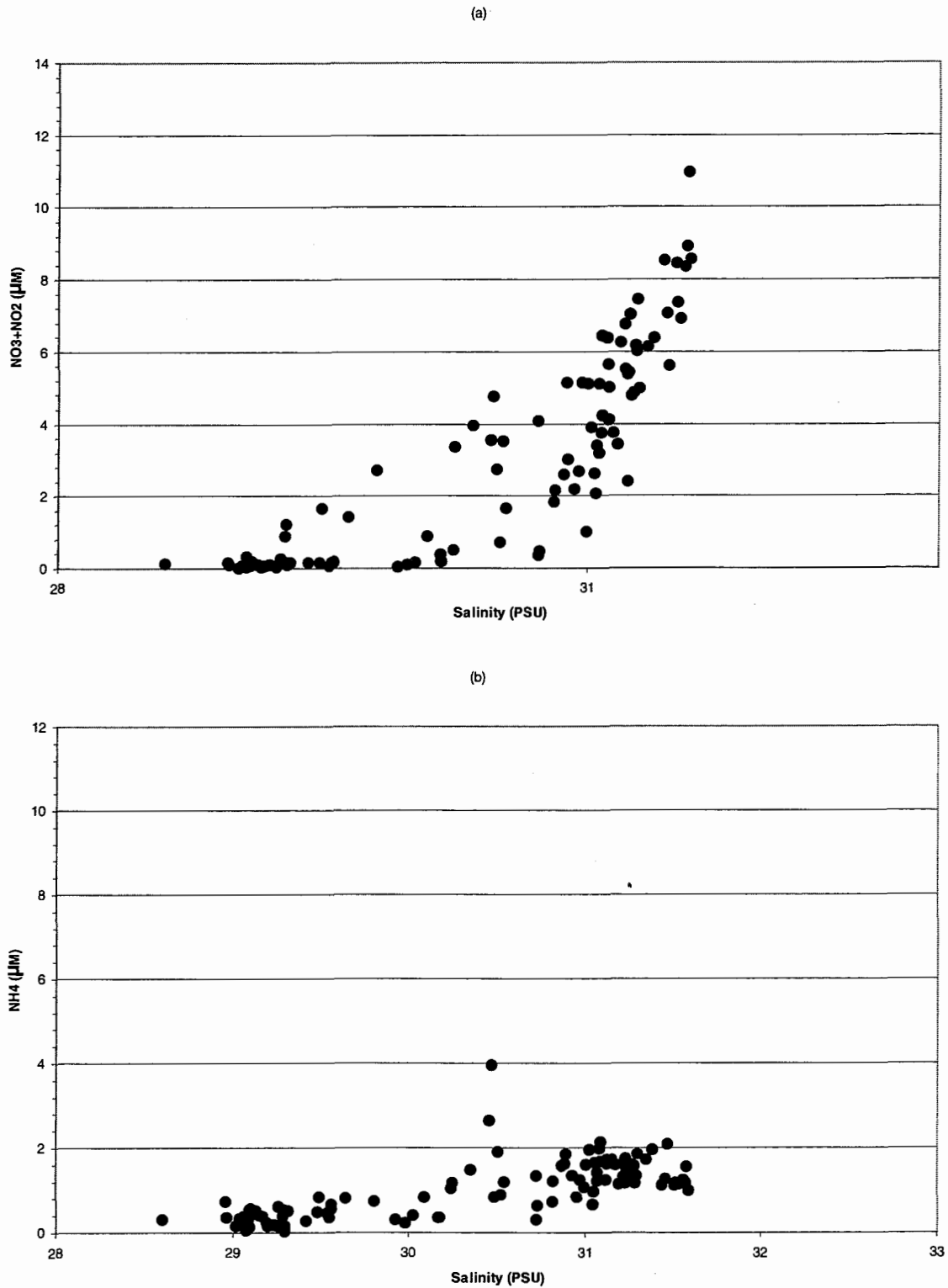


Figure D-119. Nutrient vs. Salinity Plots for Nearfield Survey WN988, (Jul 98)

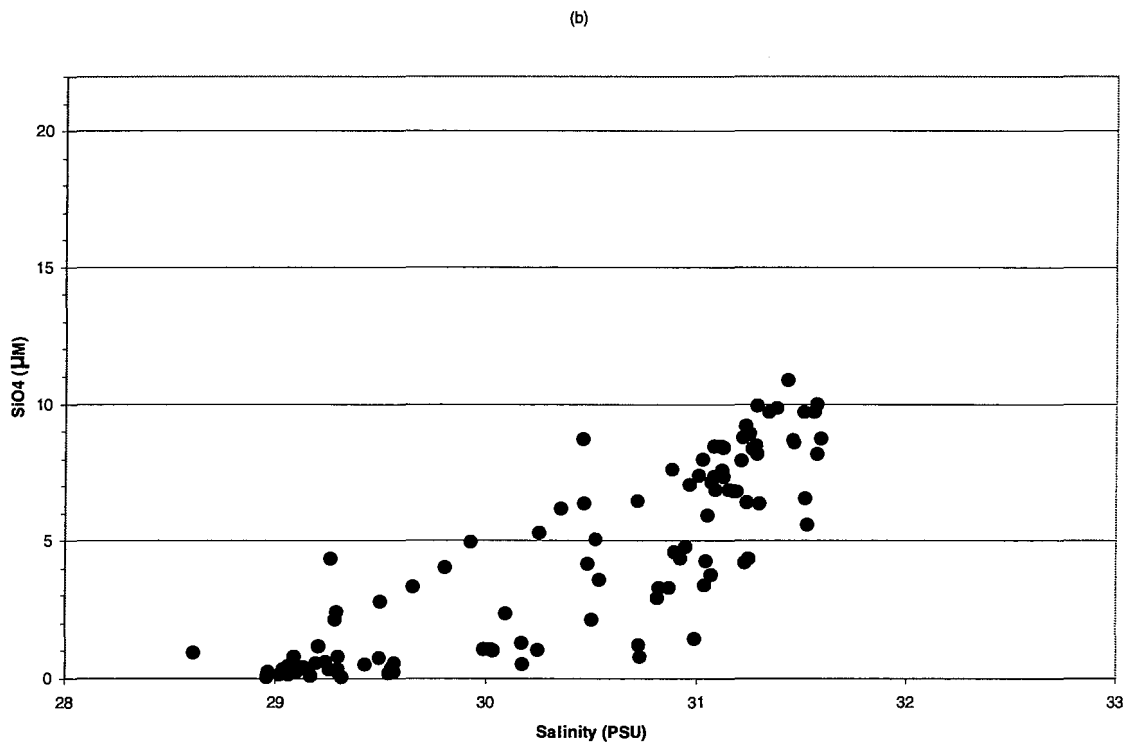
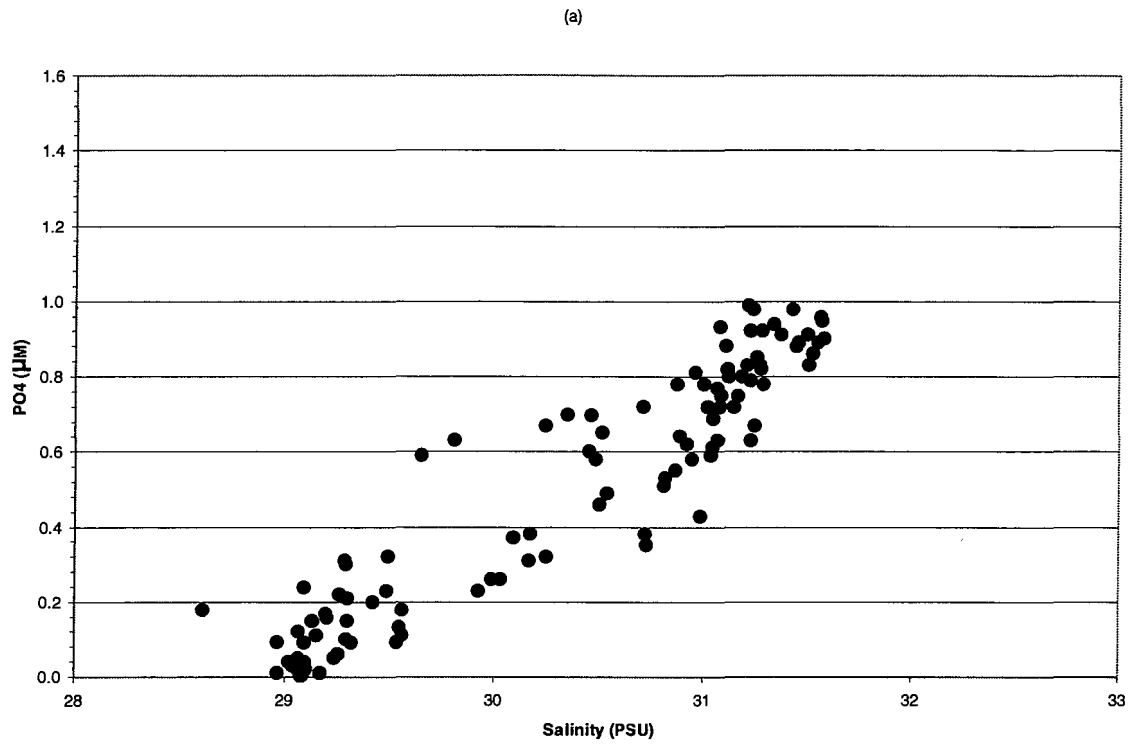


Figure D-120. Nutrient vs. Salinity Plots for Nearfield Survey WN988, (Jul 98)

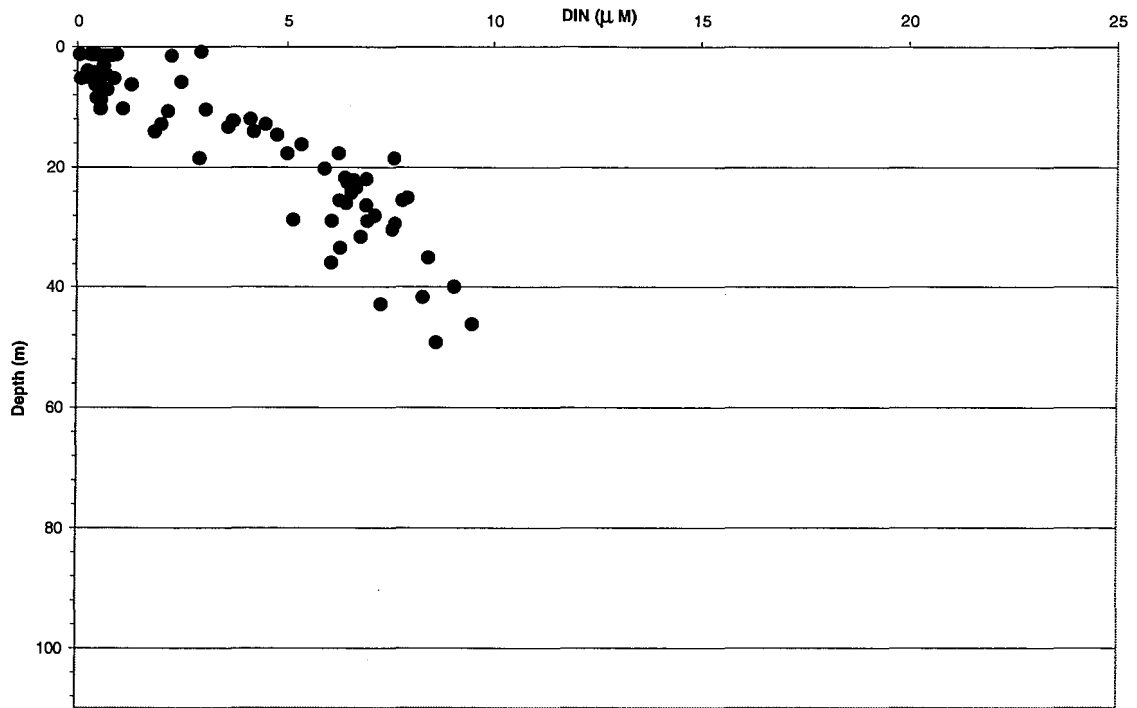


Figure D-121. Depth vs. Nutrient Plots for Nearfield Survey WN989, (Jul 98)

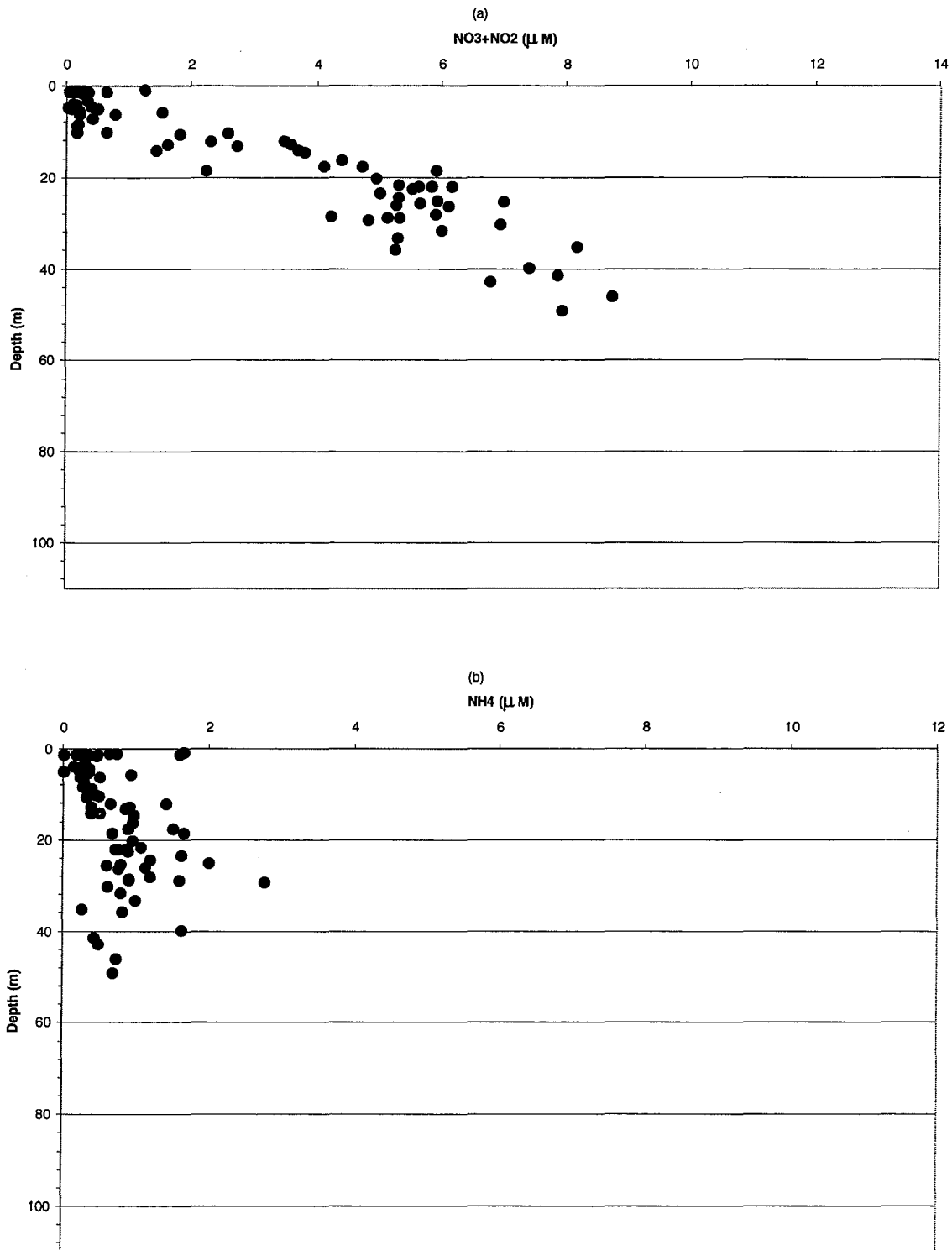


Figure D-122. Depth vs. Nutrient Plots for Nearfield Survey WN989, (Jul 98)

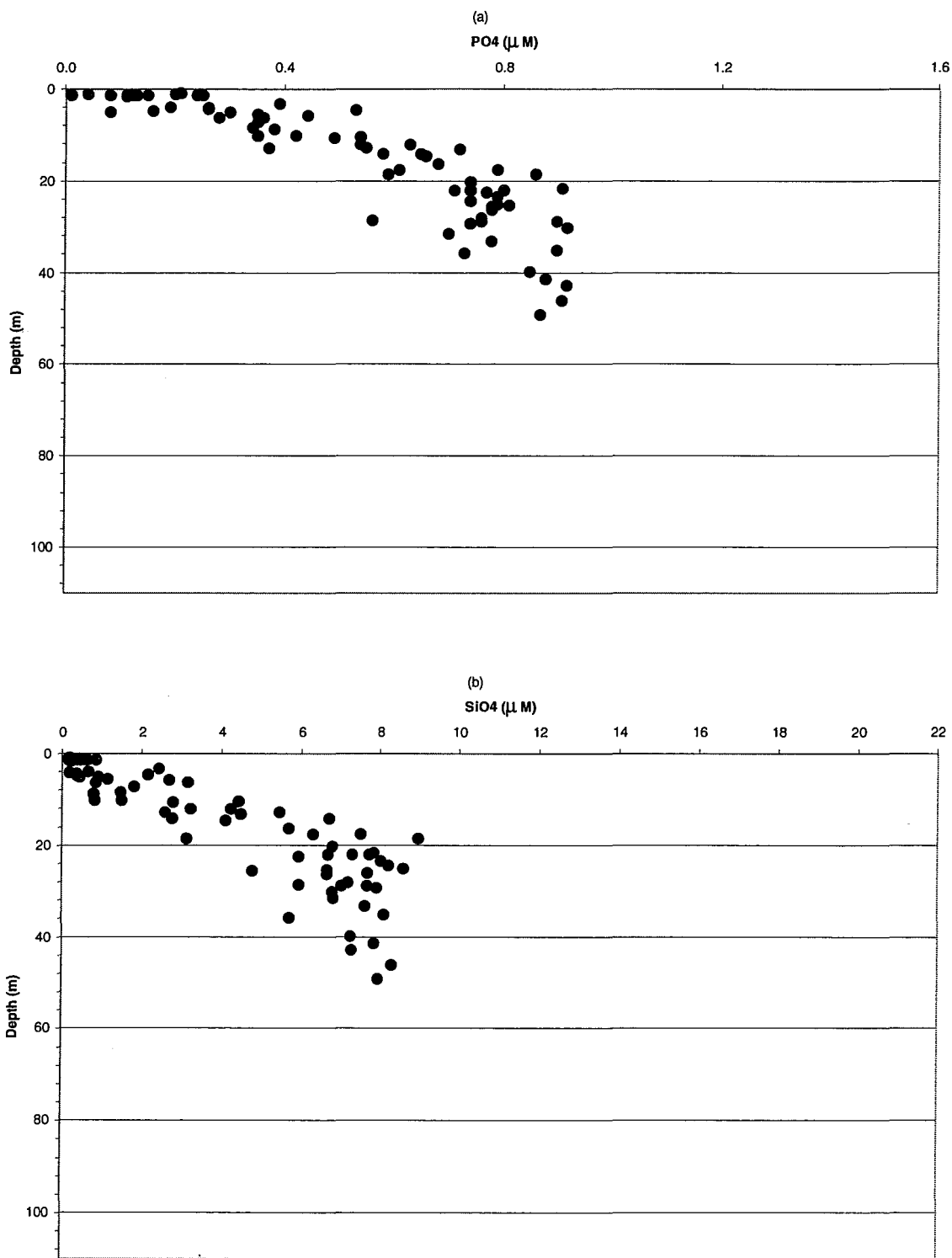


Figure D-123. Depth vs. Nutrient Plots for Nearfield Survey WN989, (Jul 98)

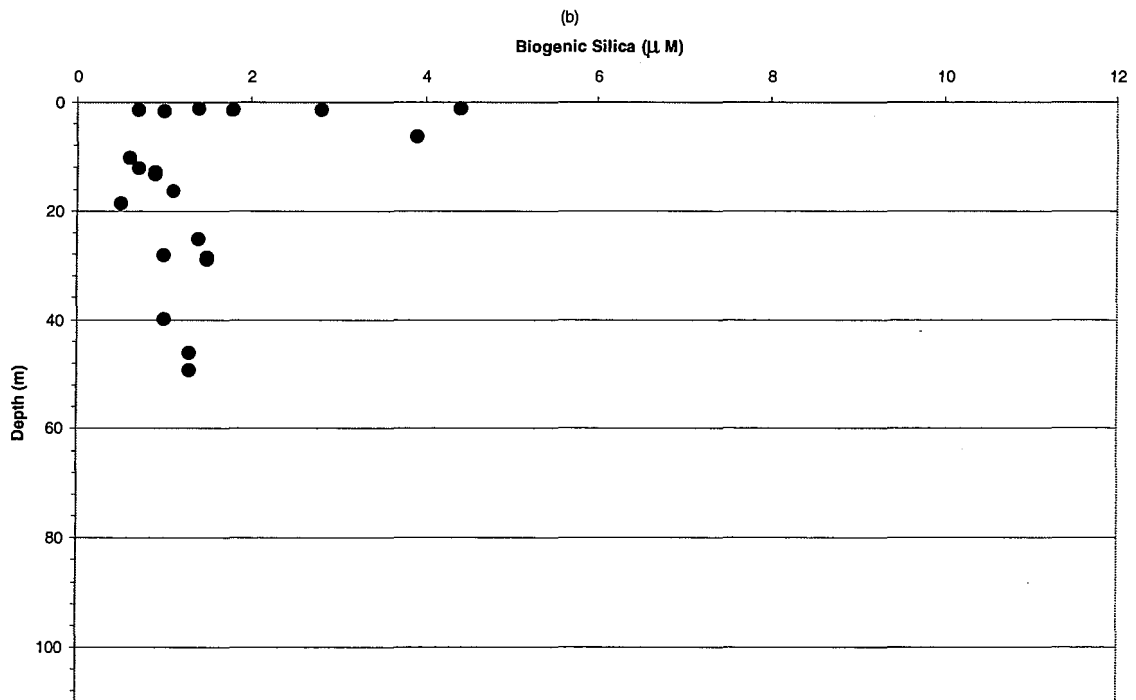
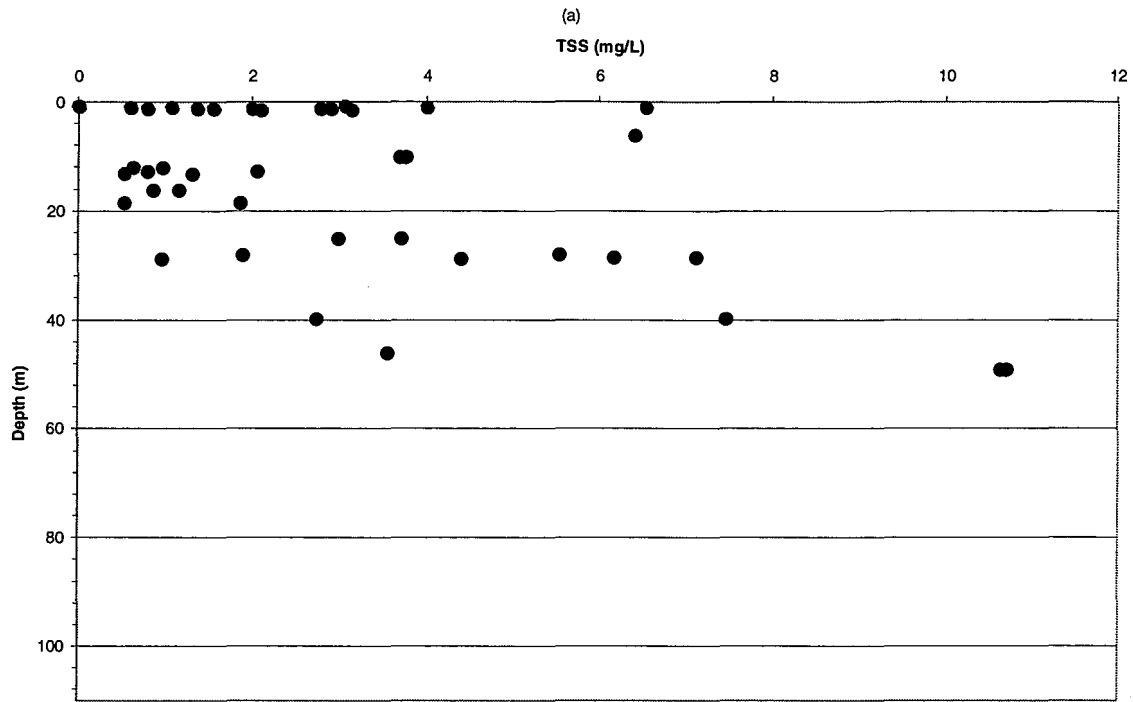


Figure D-124. Depth vs. Nutrient Plots for Nearfield Survey WN989, (Jul 98)

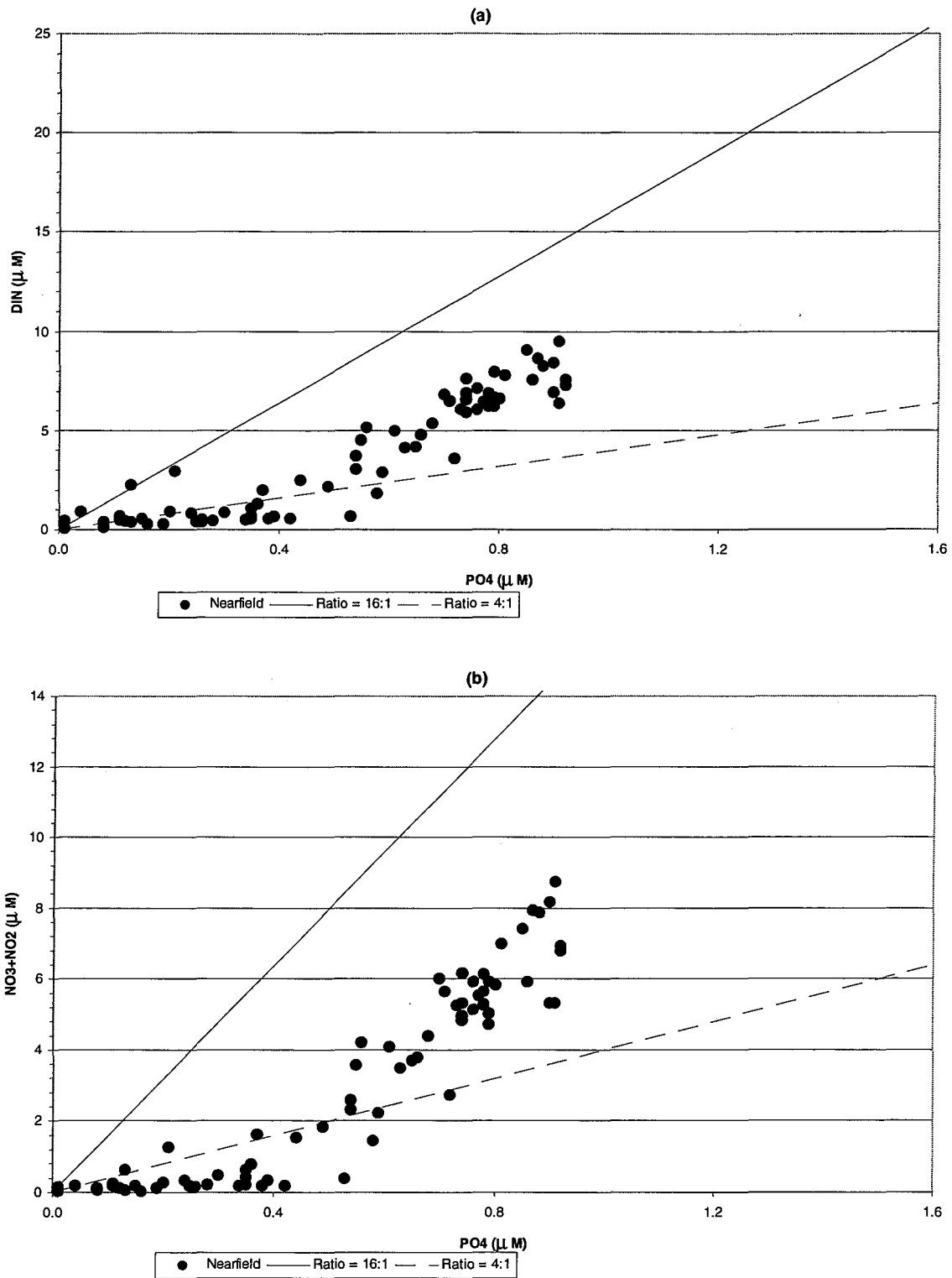


Figure D-125. Nutrient vs. Nutrient Plots for Nearfield Survey WN989, (Jul 98)

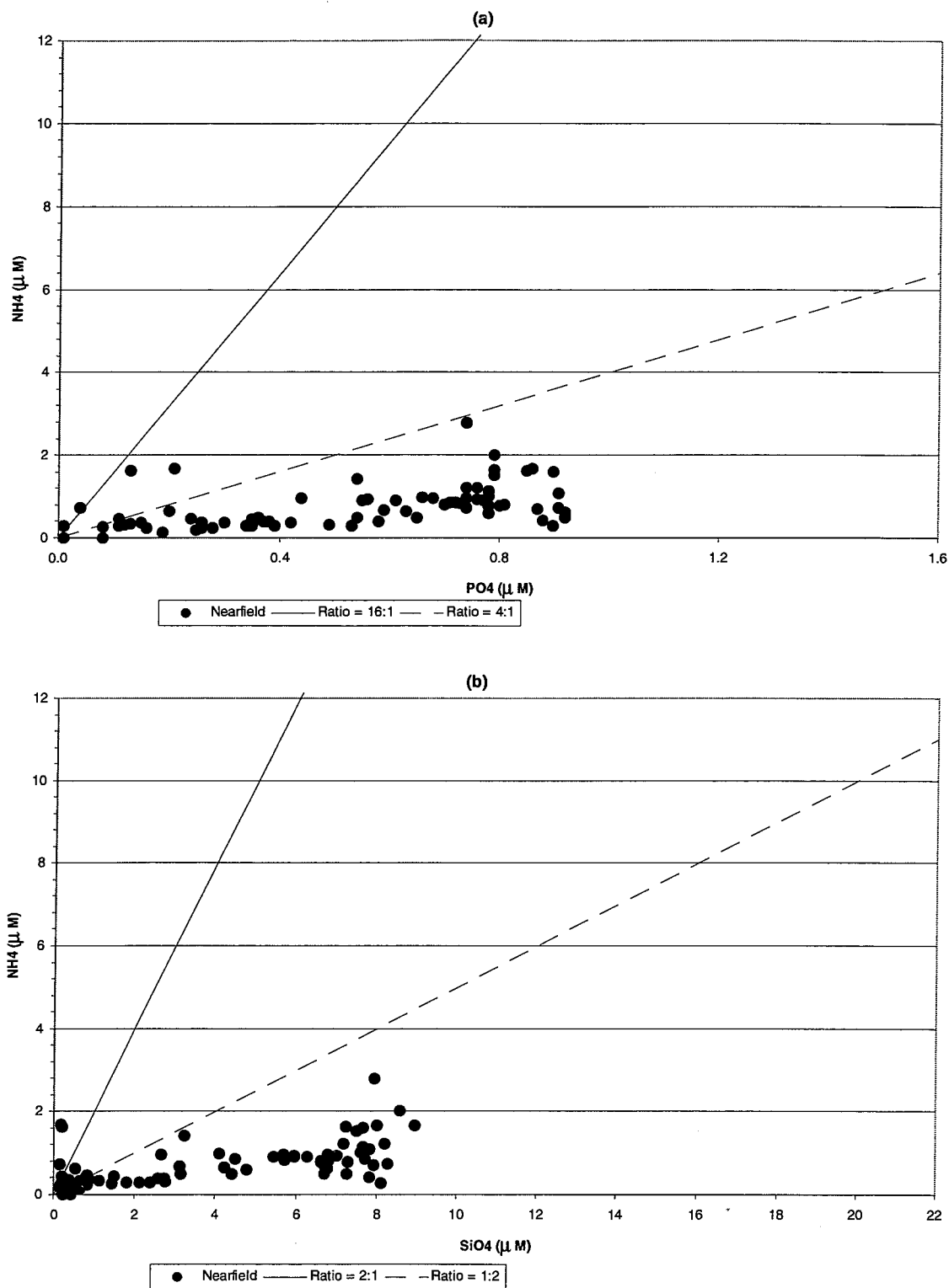


Figure D-126. Nutrient vs. Nutrient Plots for Nearfield Survey WN989, (Jul 98)

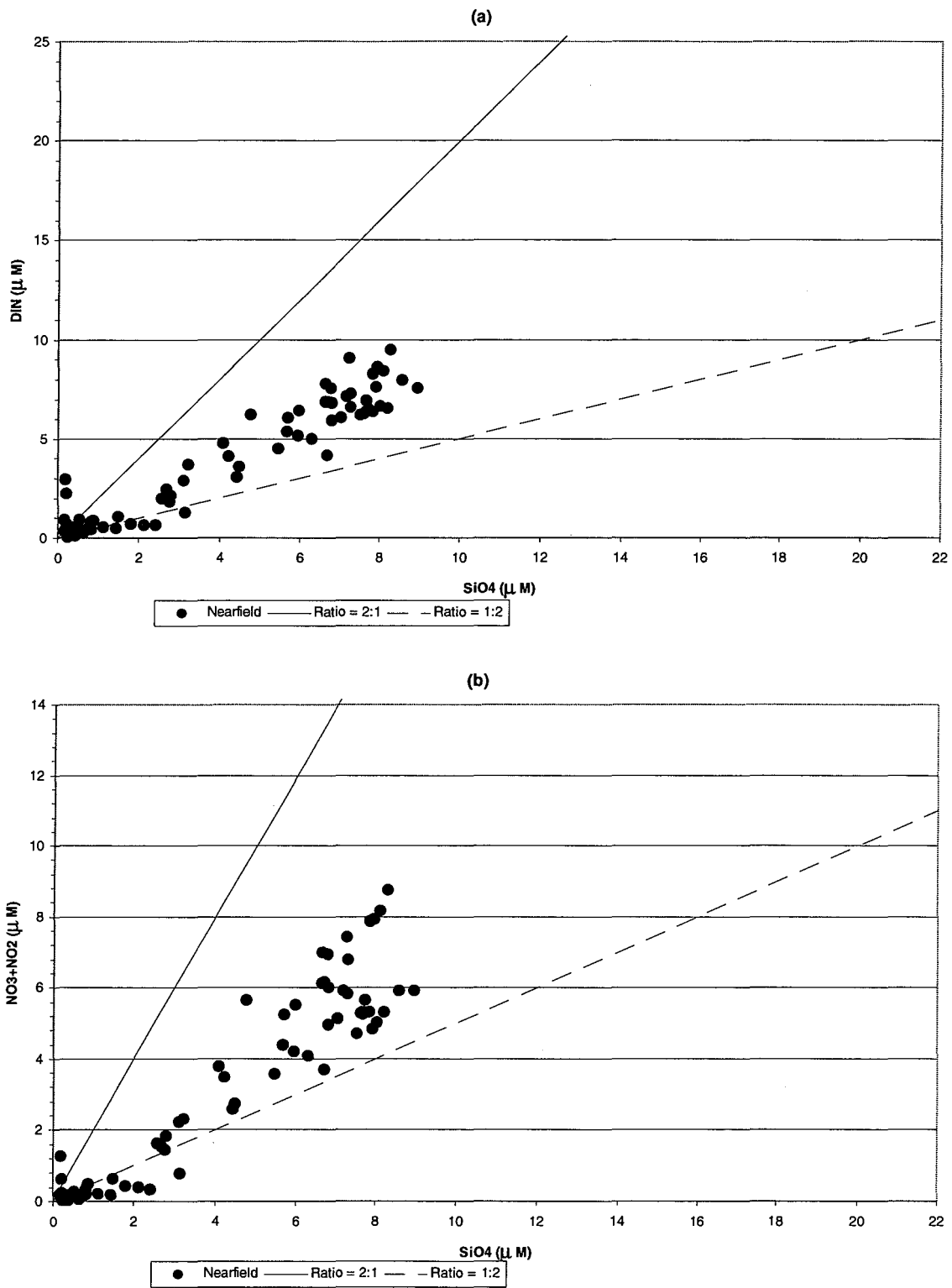


Figure D-127. Nutrient vs. Nutrient Plots for Nearfield Survey WN989, (Jul 98)

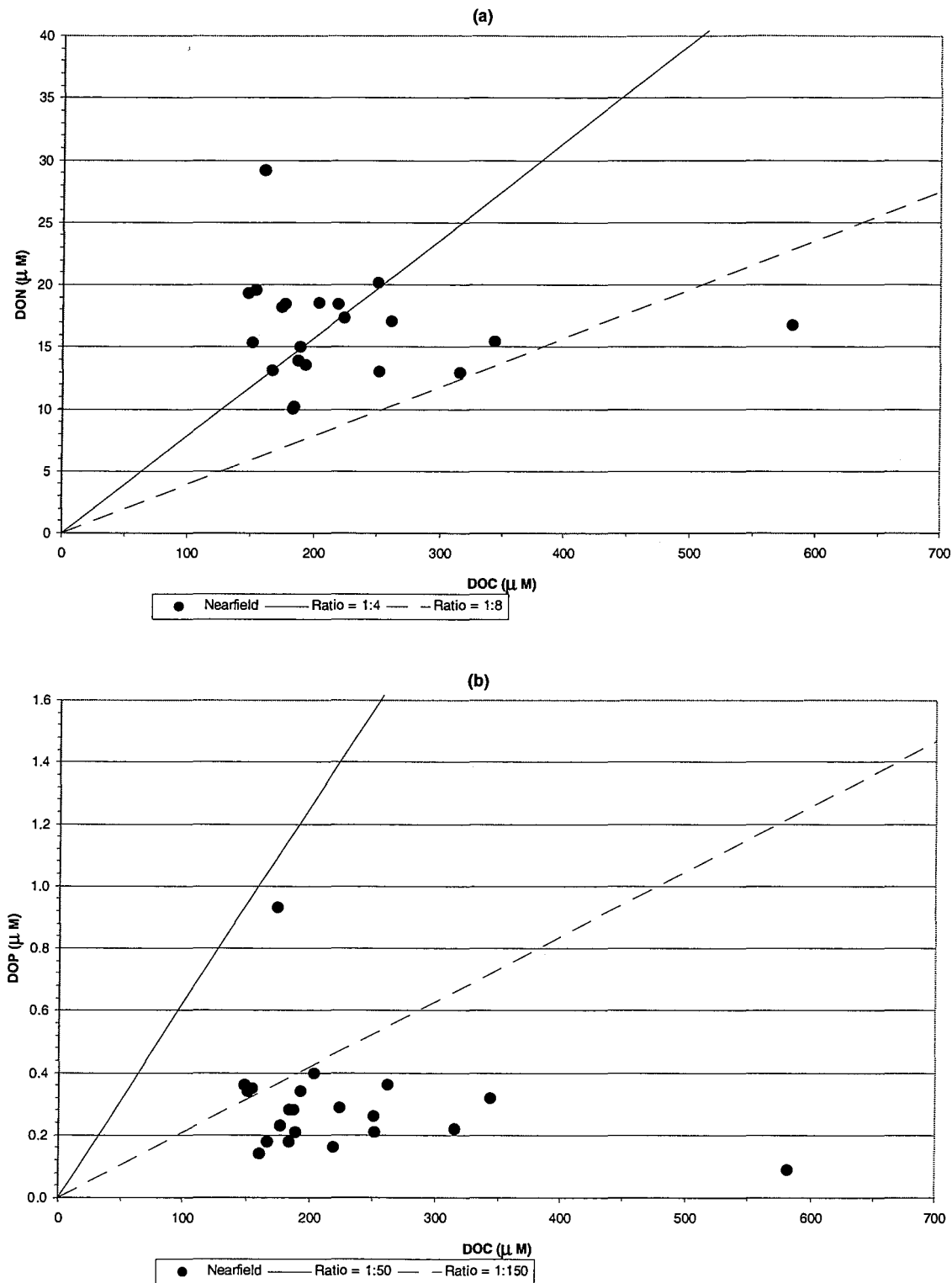


Figure D-128. Nutrient vs. Nutrient Plots for Nearfield Survey WN989, (Jul 98)

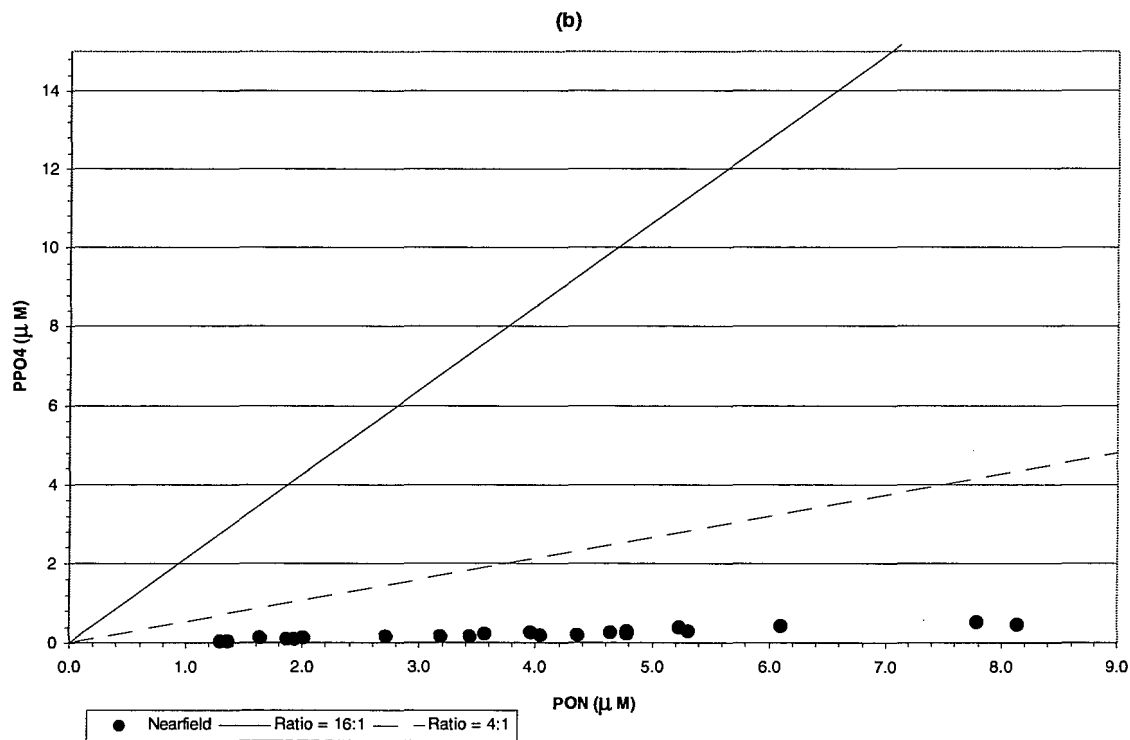
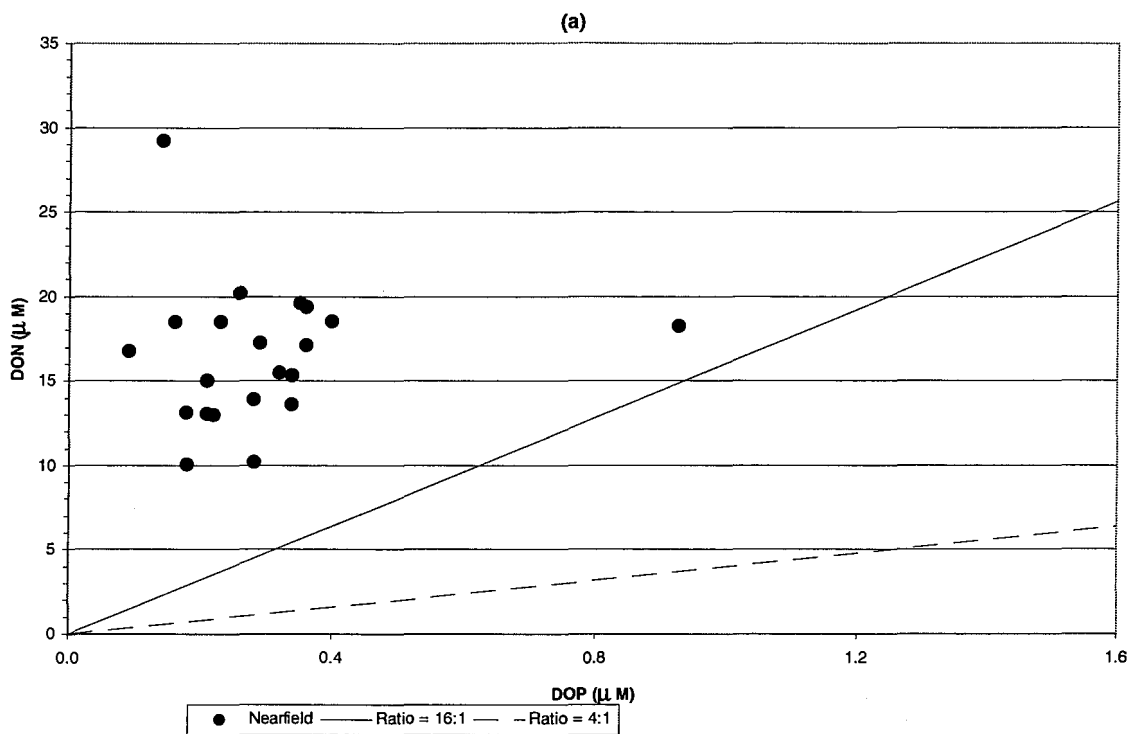


Figure D-129. Nutrient vs. Nutrient Plots for Nearfield Survey WN989, (Jul 98)

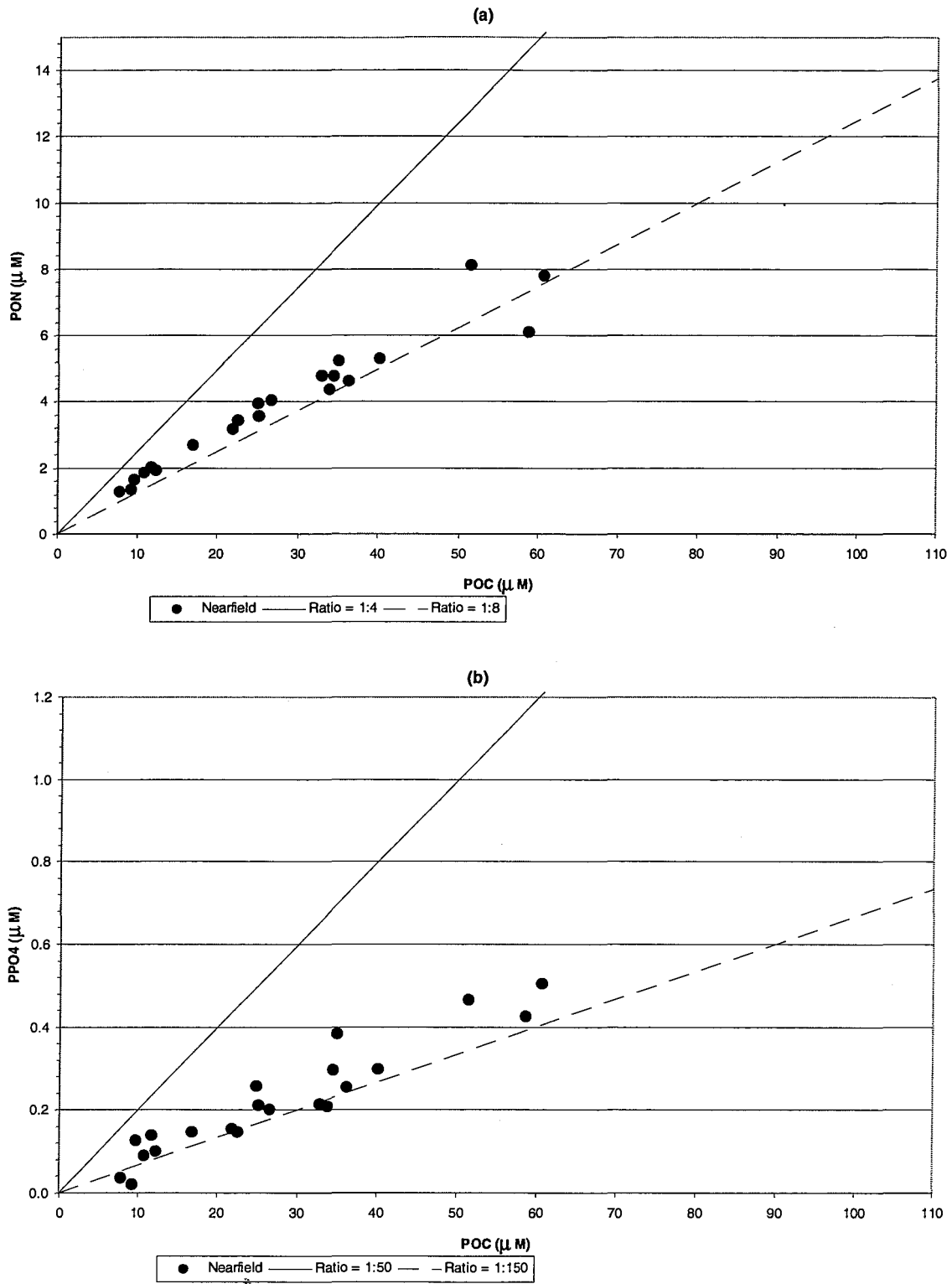


Figure D-130. Nutrient vs. Nutrient Plots for Nearfield Survey WN989, (Jul 98)

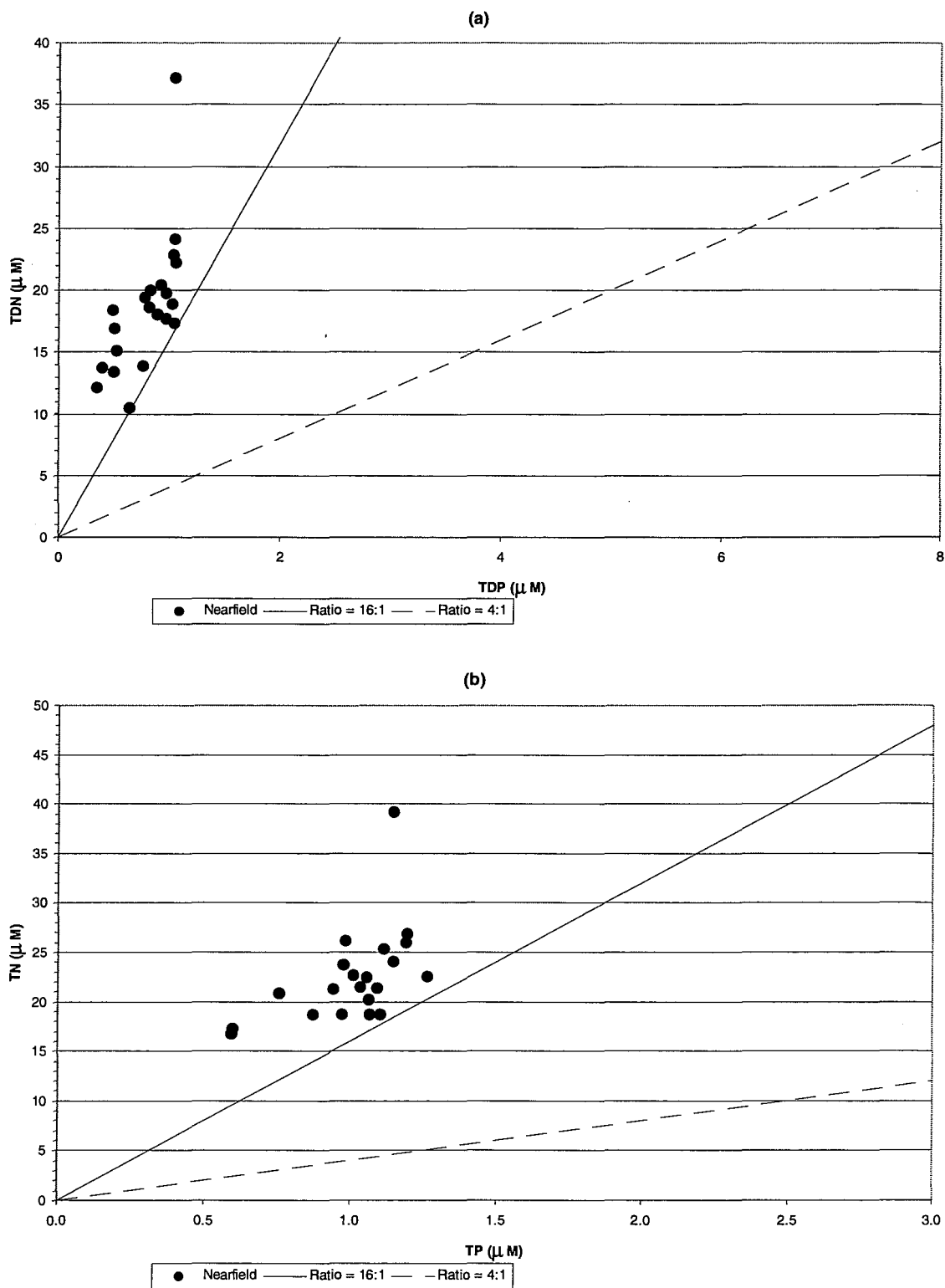


Figure D-131. Nutrient vs. Nutrient Plots for Nearfield Survey WN989, (Jul 98)

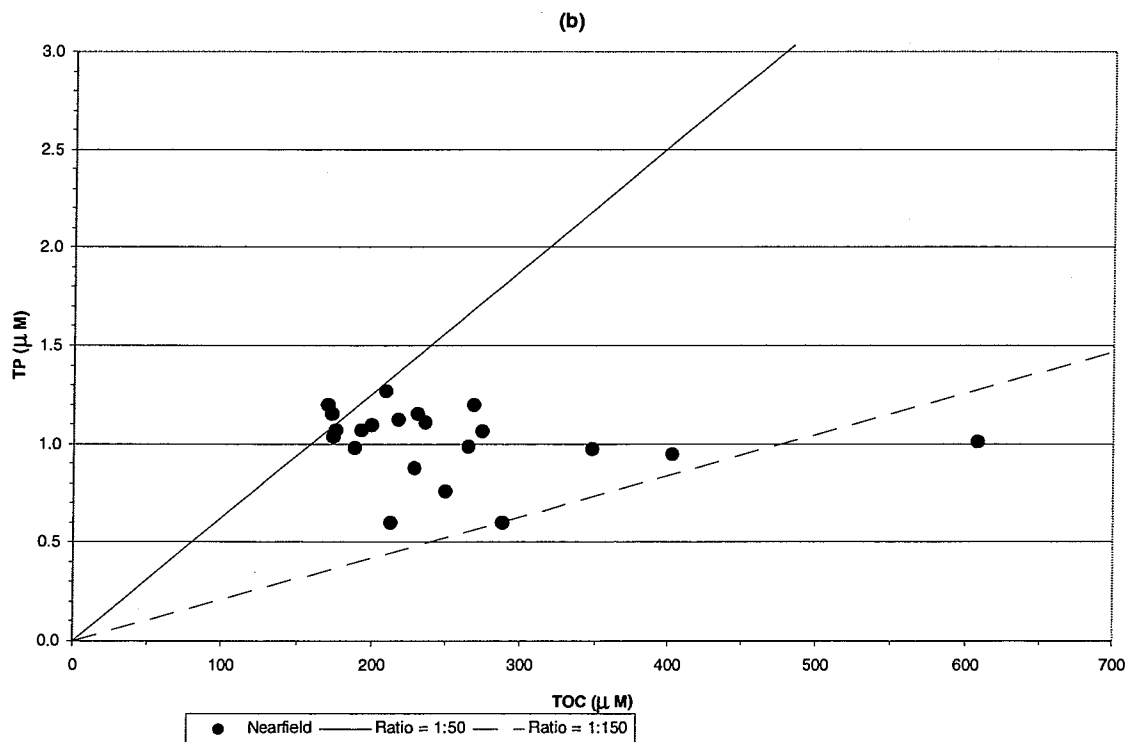
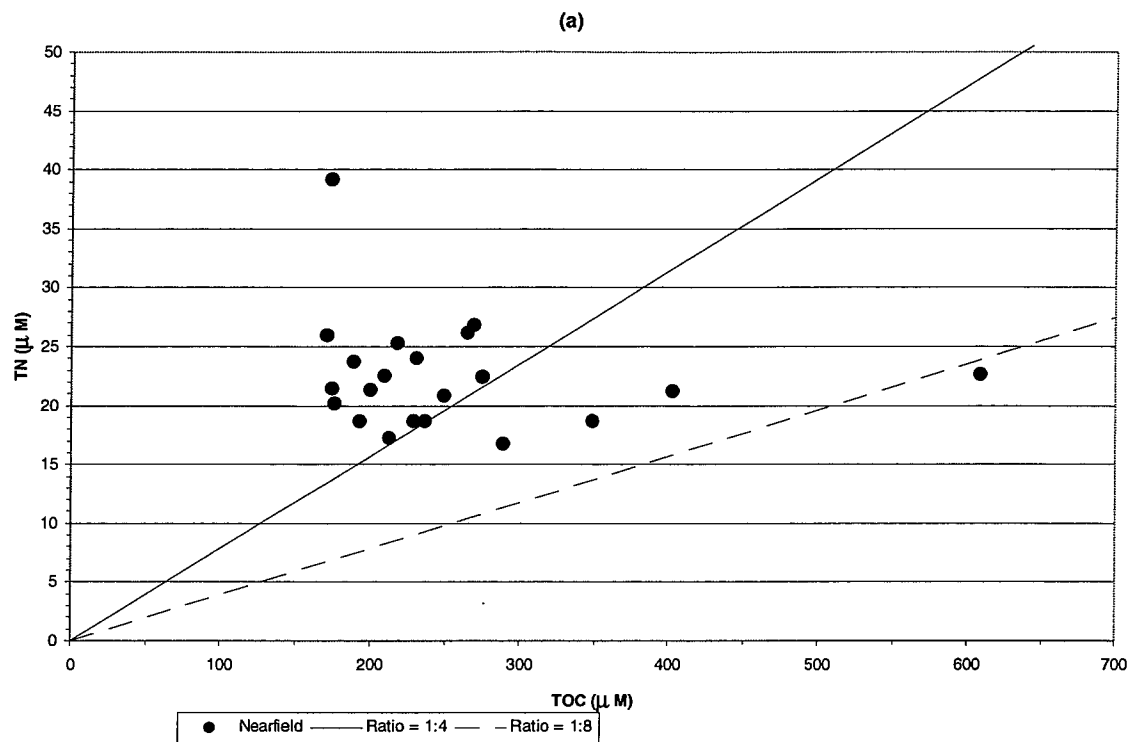


Figure D-132. Nutrient vs. Nutrient Plots for Nearfield Survey WN989, (Jul 98)

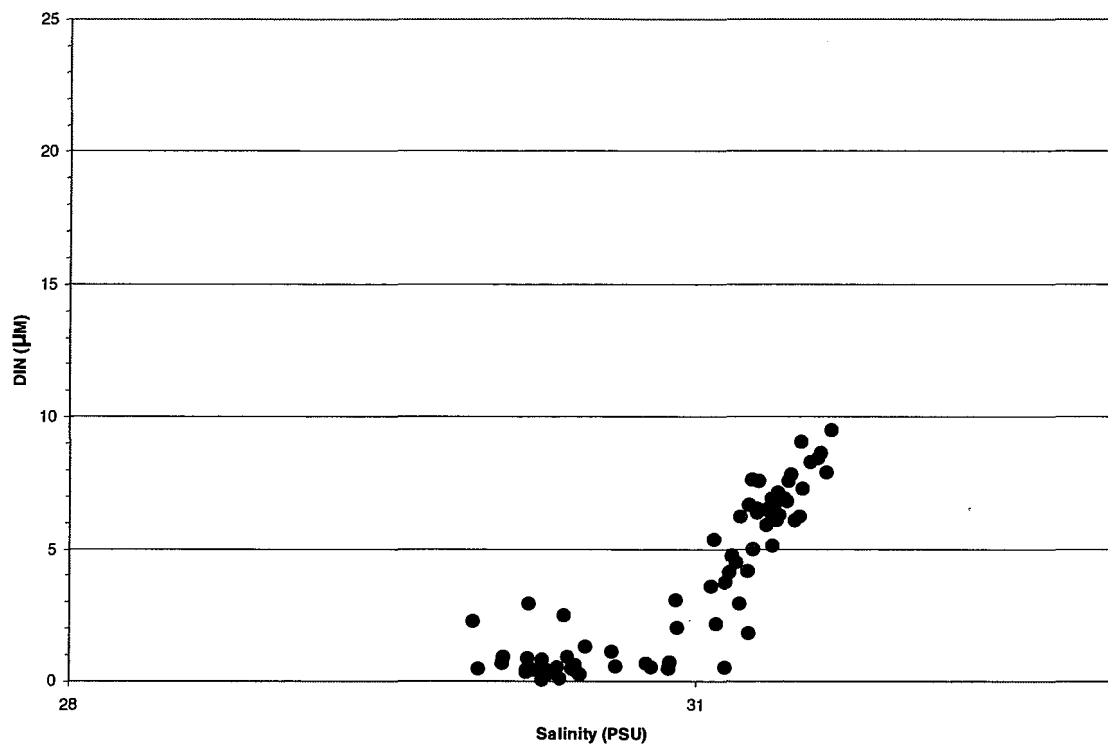


Figure D-133. Nutrient vs. Salinity Plots for Nearfield Survey WN989, (Jul 98)

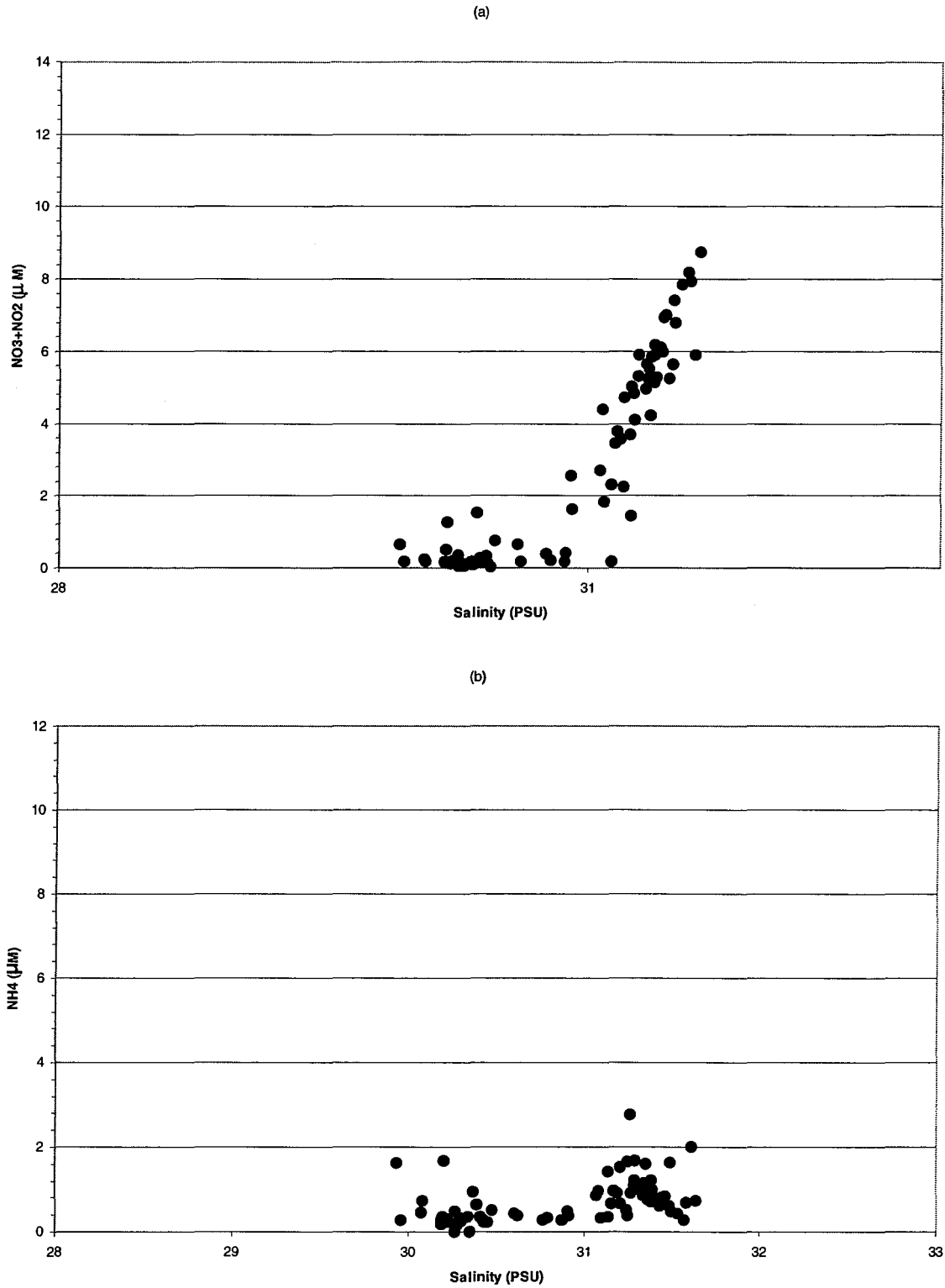


Figure D-134. Nutrient vs. Salinity Plots for Nearfield Survey WN989, (Jul 98)

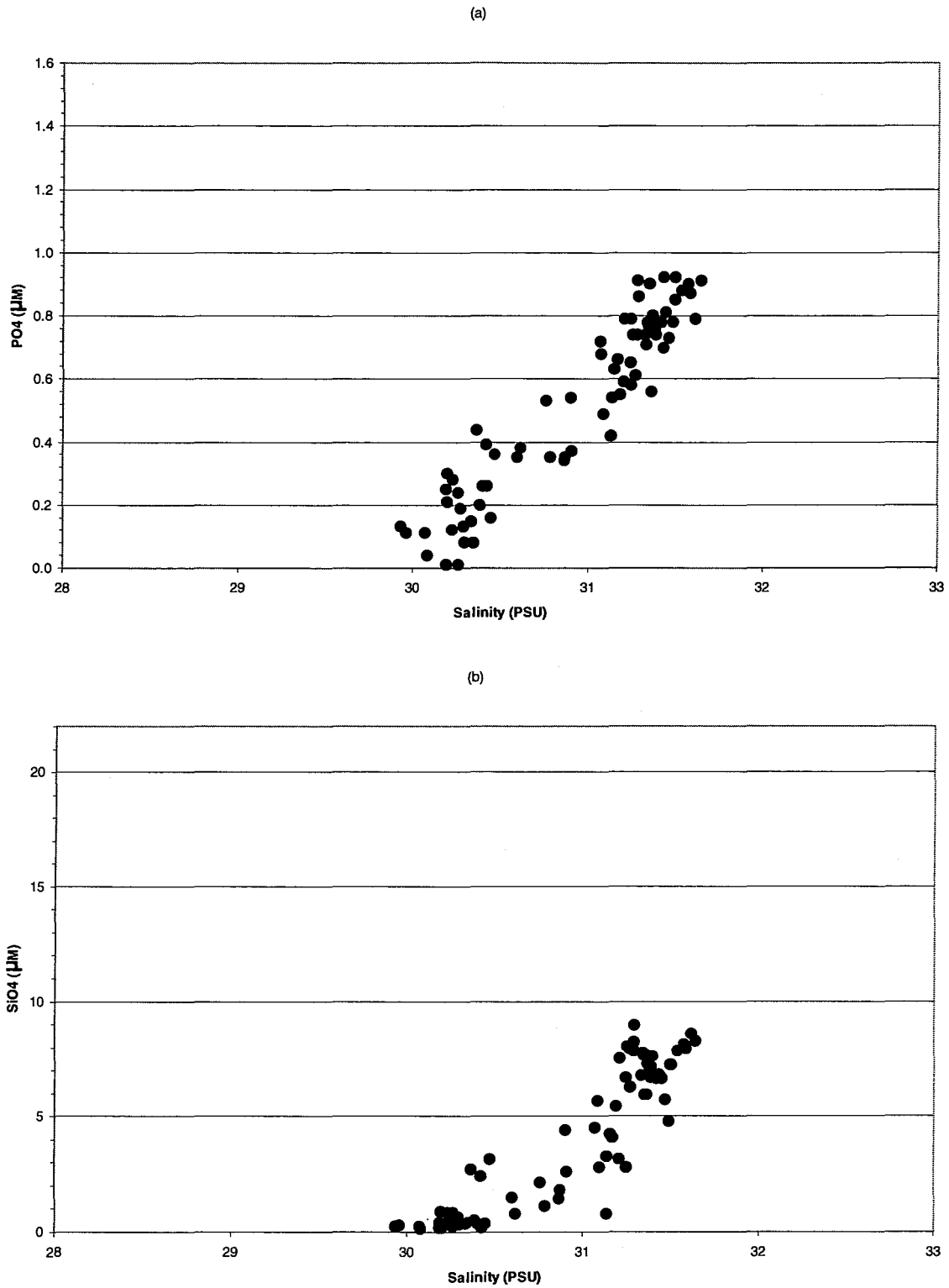


Figure D-135. Nutrient vs. Salinity Plots for Nearfield Survey WN989, (Jul 98)

APPENDIX E

Photosynthesis-Irradiance (P-I) Curves

Photosynthesis-Irradiance (P-I) Curves

Productivity (Prod, $\text{mg C m}^{-3} \text{ hr}^{-1}$) versus irradiance (Light, $\mu\text{E m}^{-2} \text{ sec}^{-1}$) curves for the period 9 February to 23 July 1998. Comprehensive data are presented for each cruise by station (N04, N18, F23) and by depth (surface, mid-surface, middle, mid-bottom and bottom) Productivity calculations (Appendix A) utilized light attenuation data from a CTD-mounted $4\text{-}\pi$ sensor and incident light time-series data from a $2\text{-}\pi$ irradiance sensor located on Deer Island, MA. After collection of the productivity samples, they were transported to the Marine Ecosystems Research Laboratory (MERL) where they were incubated in temperature controlled incubators. Hourly productivity measurements were converted to daily values by fitting the measured hourly rates and light data to one of two P-I models (with or without photoinhibition) Using the fitted parameters, the measured incident light, and the light attenuation data, production rates were calculated for each 15-minute interval over the daylight period (centered from 6 AM to 6 PM), summed for each sampling depth, then integrated over depth to give areal production for each station.

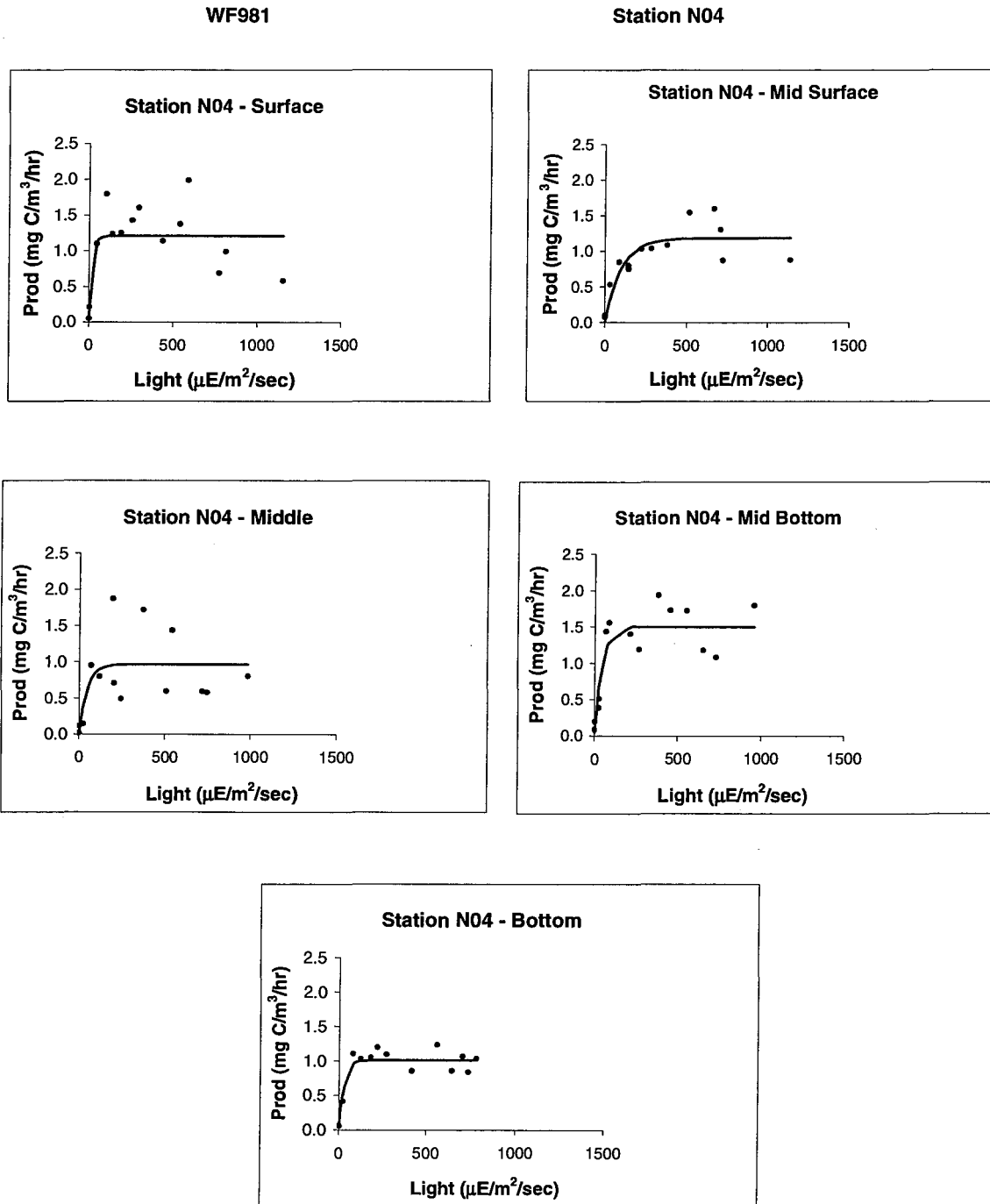


Figure E-1. Photosynthesis-Irradiance (P-I) Curves for Station N04 from Farfield Survey WF981 (Feb 98)

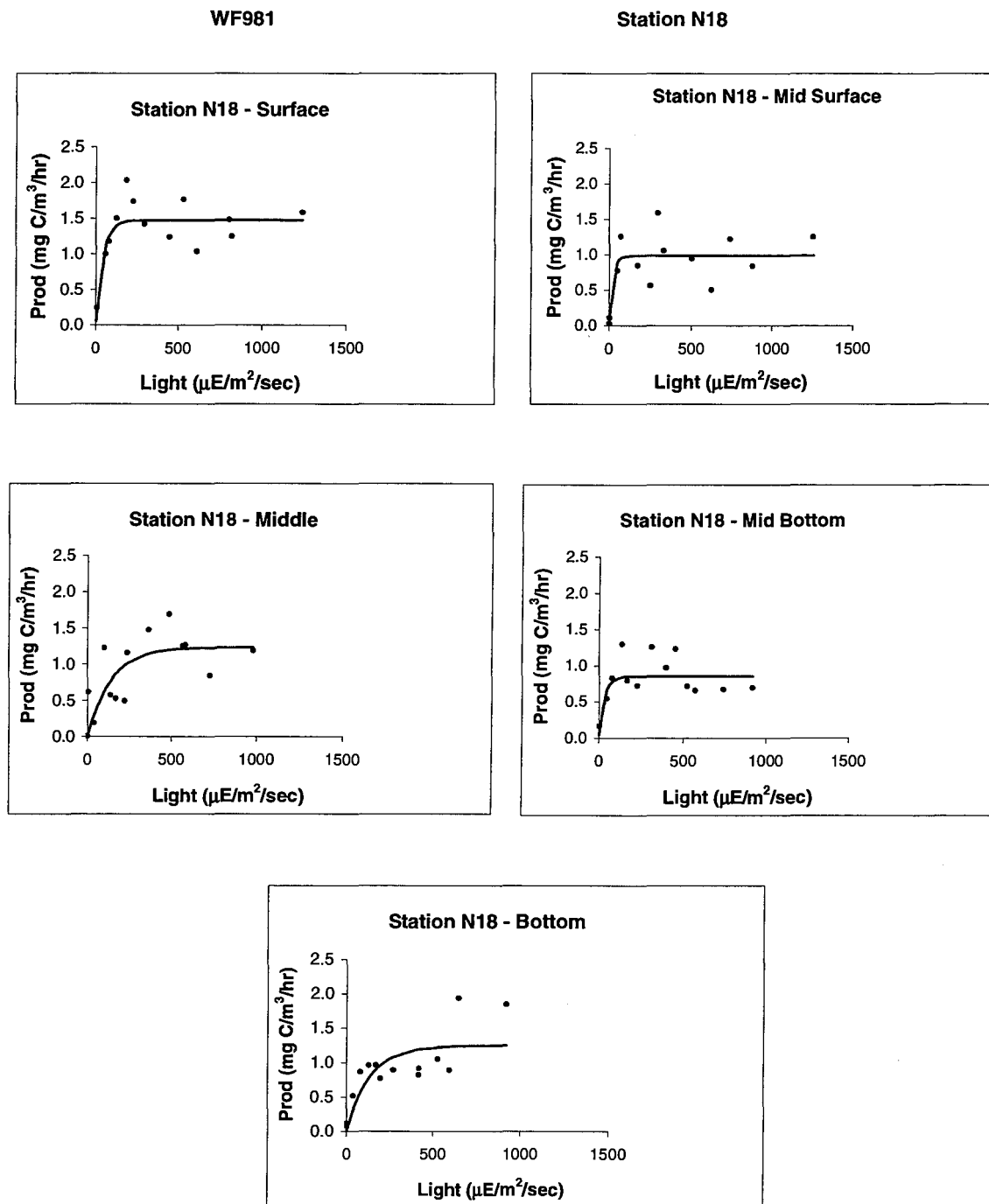


Figure E-2. Photosynthesis-Irradiance (P-I) Curves for Station N18 from Farfield Survey WF981 (Feb 98)

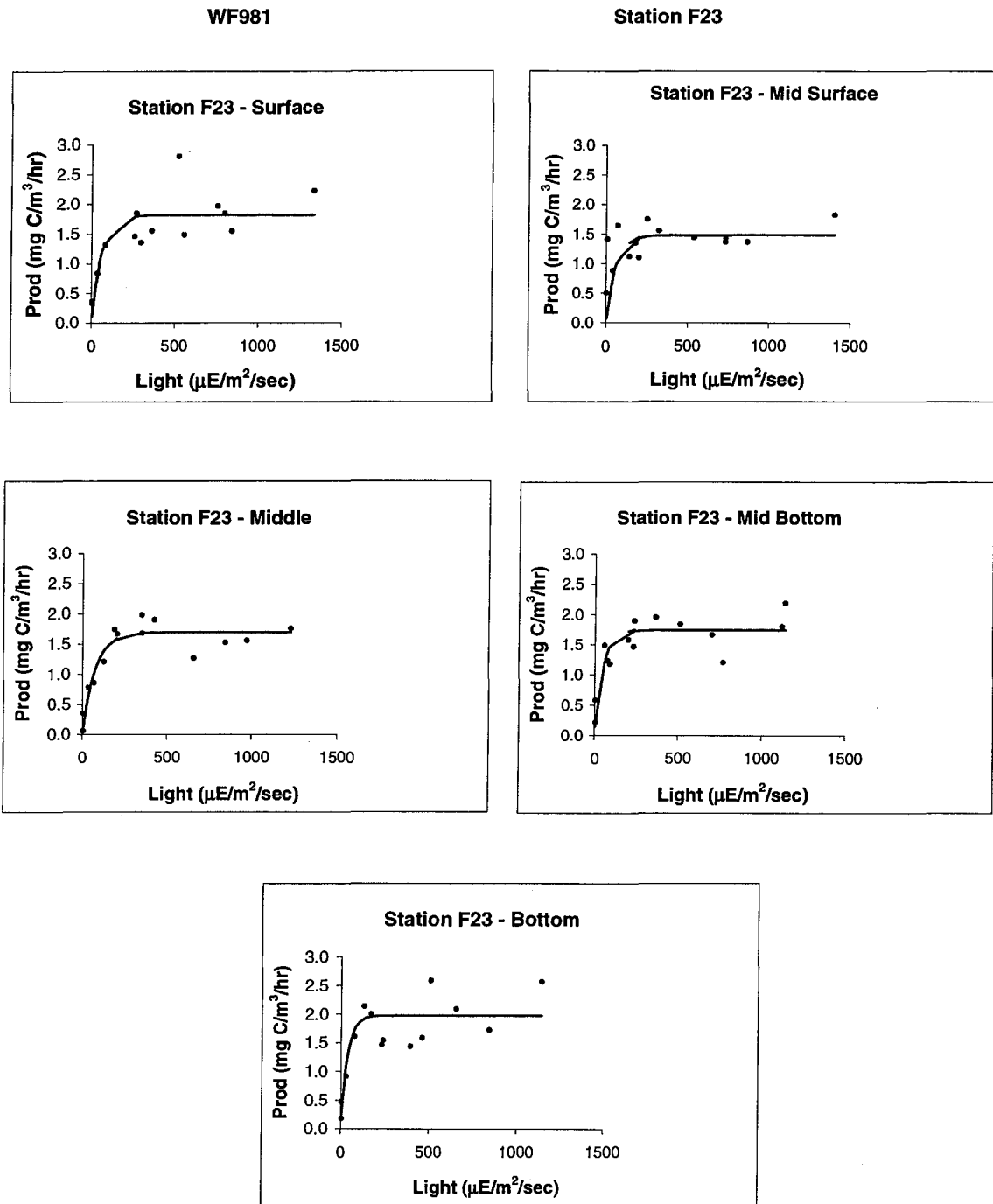


Figure E-3. Photosynthesis-Irradiance (P-I) Curves for Station F23 from Farfield Survey WF981 (Feb 98)

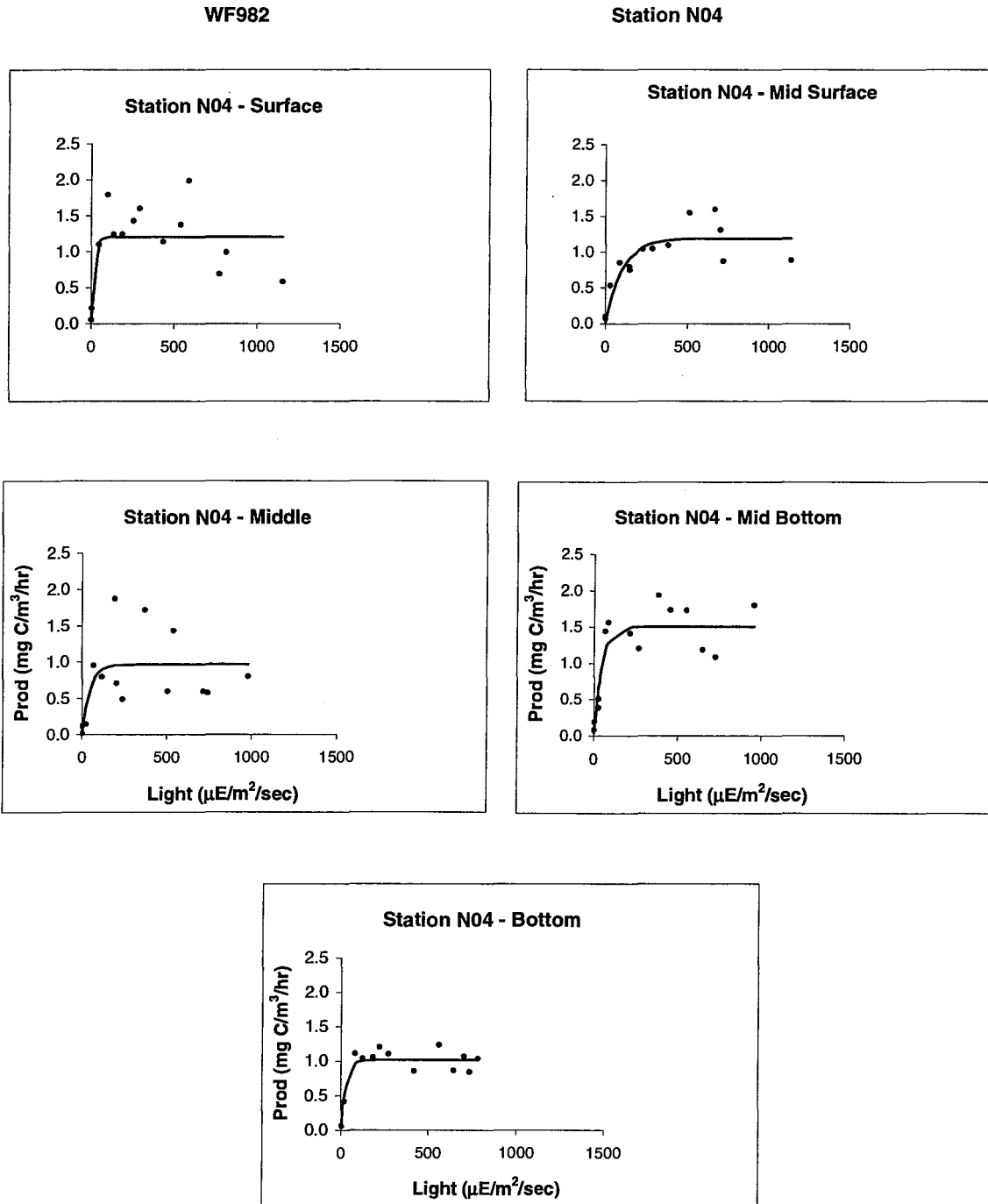


Figure E-4. Photosynthesis-Irradiance (P-I) Curves for Station N04 from Farfield Survey WF982 (Feb 98)

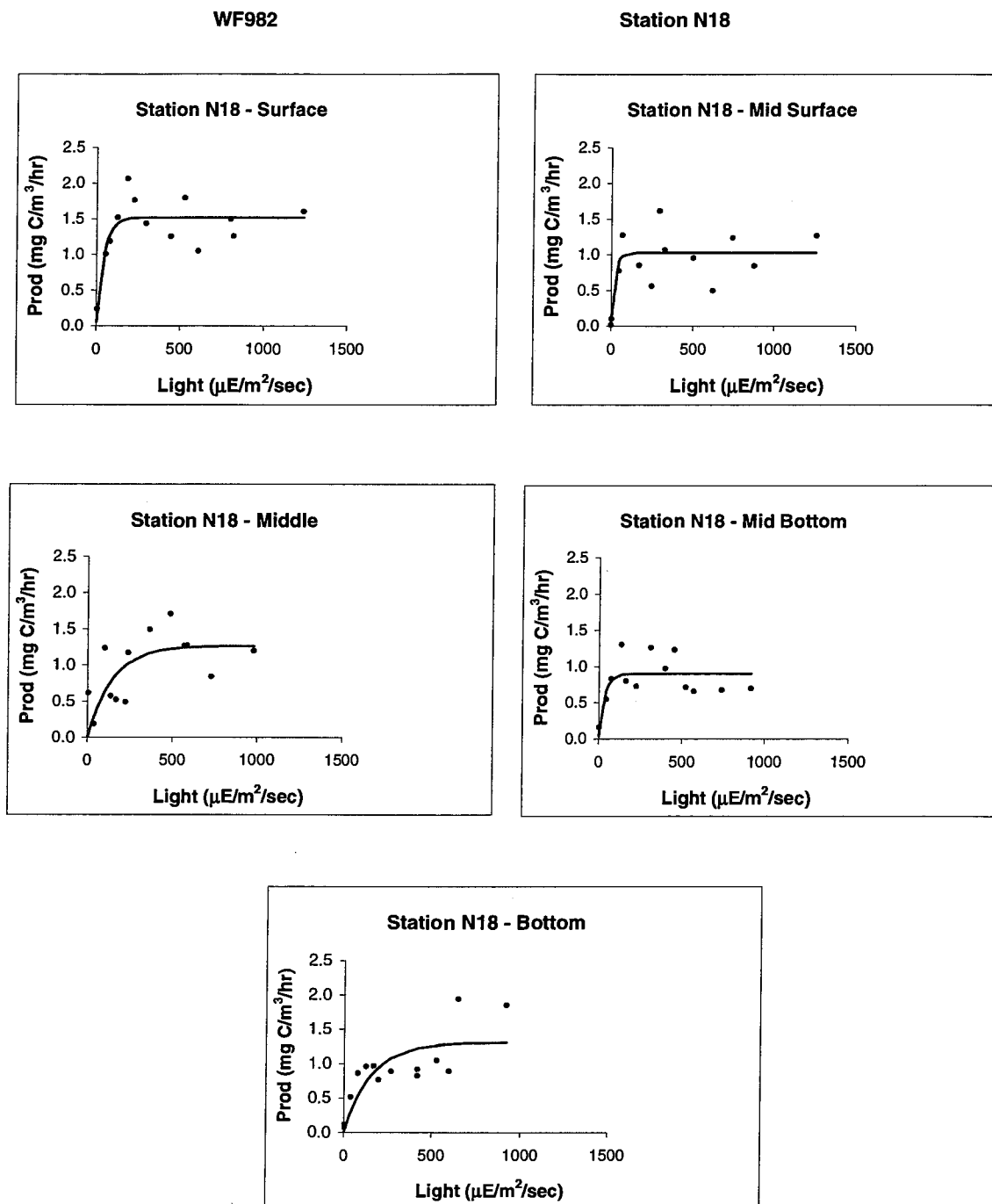


Figure E-5. Photosynthesis-Irradiance (P-I) Curves for Station N18 from Farfield Survey WF982 (Feb 98)

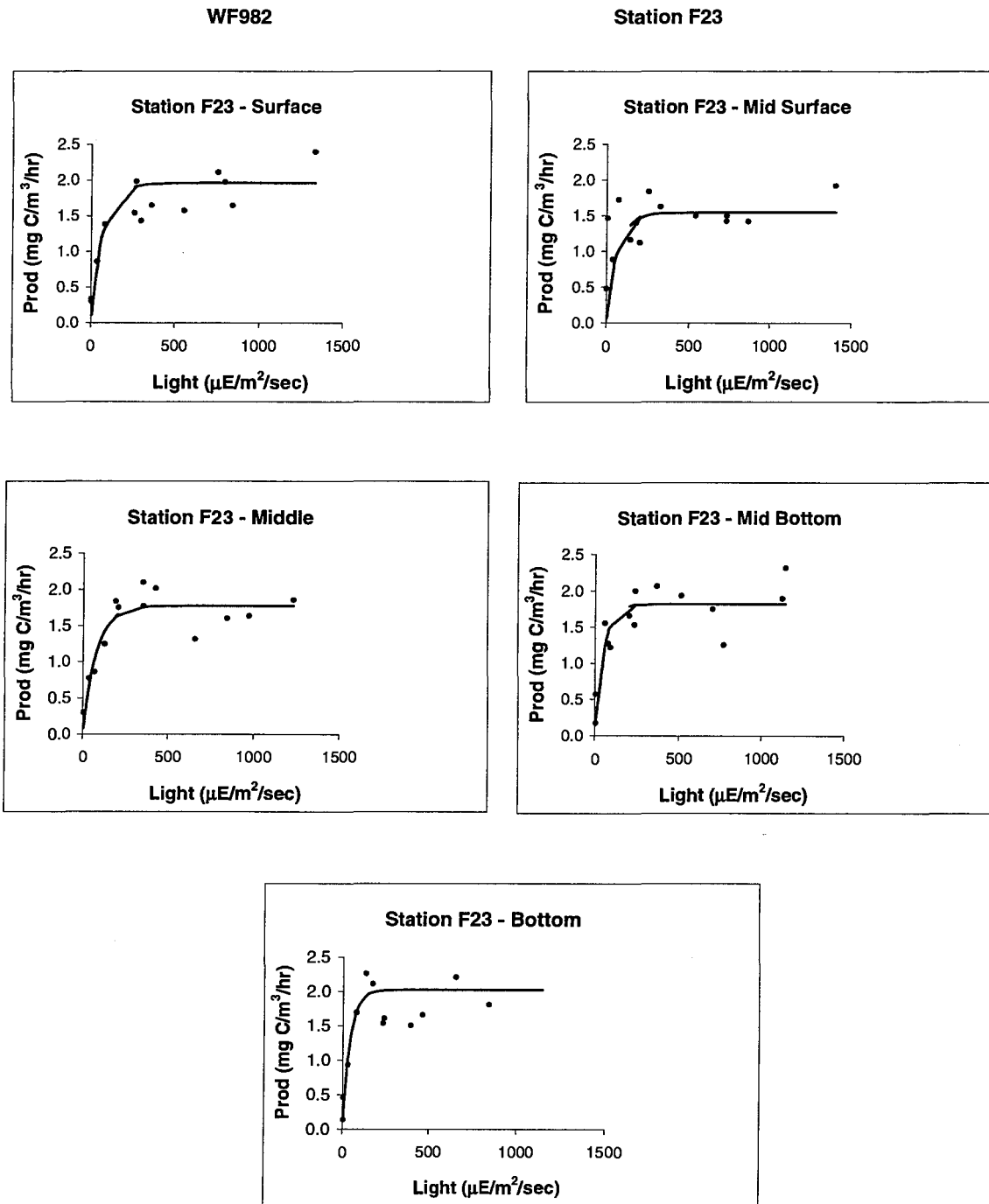


Figure E-6. Photosynthesis-Irradiance (P-I) Curves for Station F23 from Farfield Survey WF982 (Feb 98)

WN983

Station N04

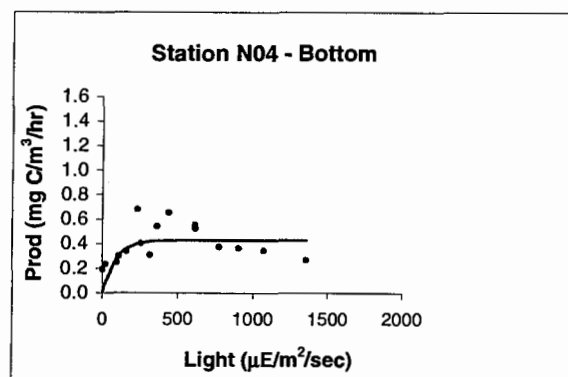
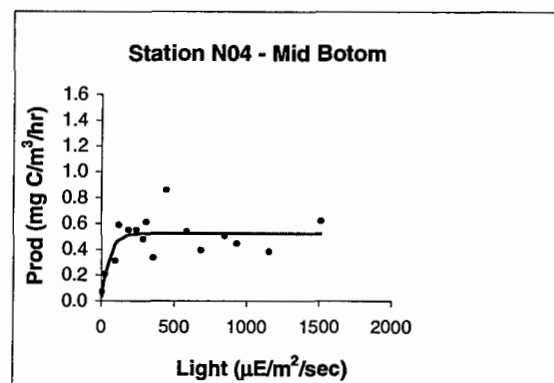
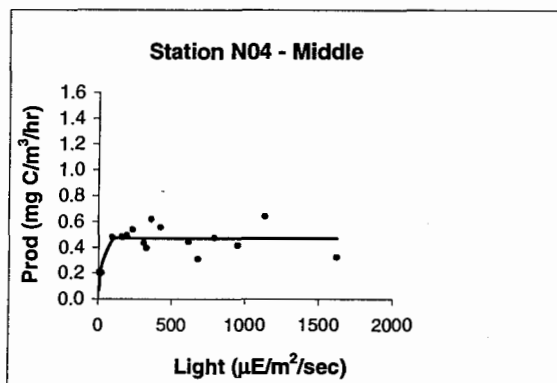
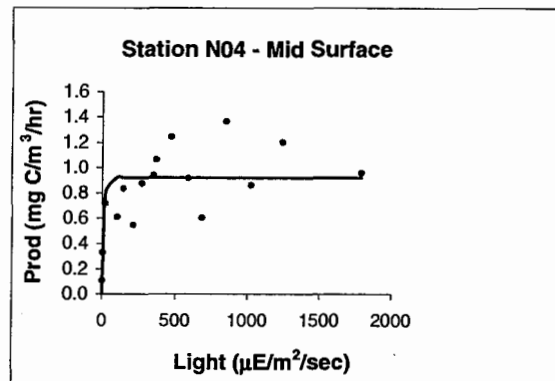
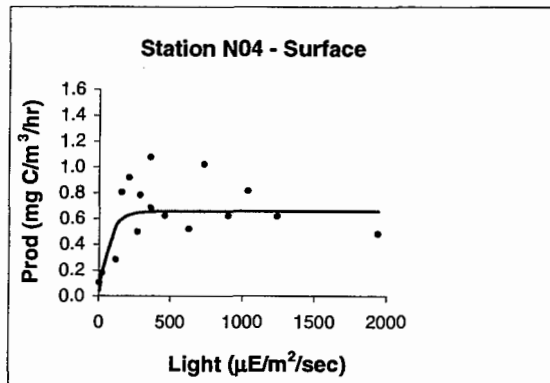


Figure E-7. Photosynthesis-Irradiance (P-I) Curves for Station N04 from Nearfield Survey WN983 (Mar 98)

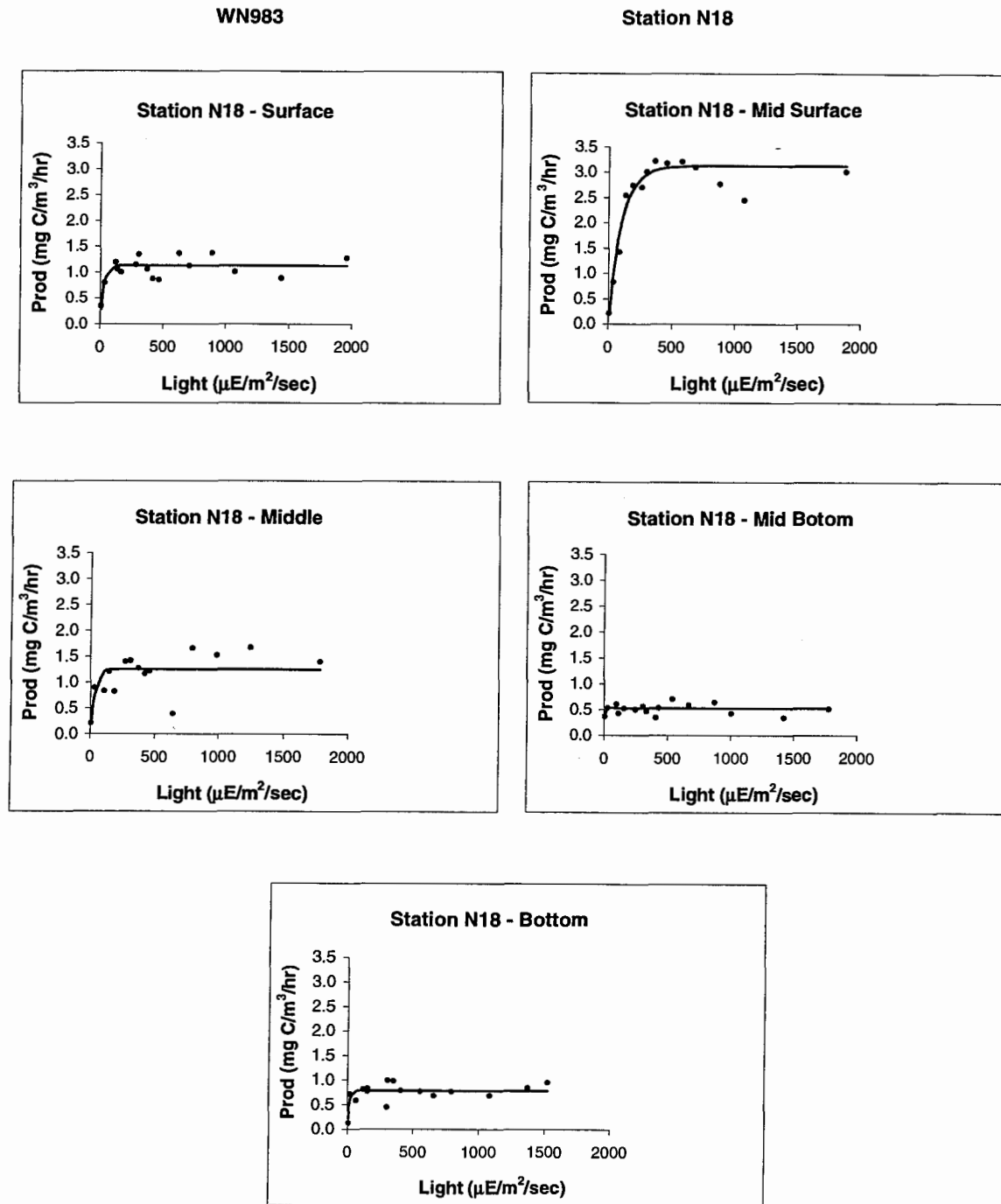


Figure E-8. Photosynthesis-Irradiance (P-I) Curves for Station N18 from Nearfield Survey WN983 (Mar 98)

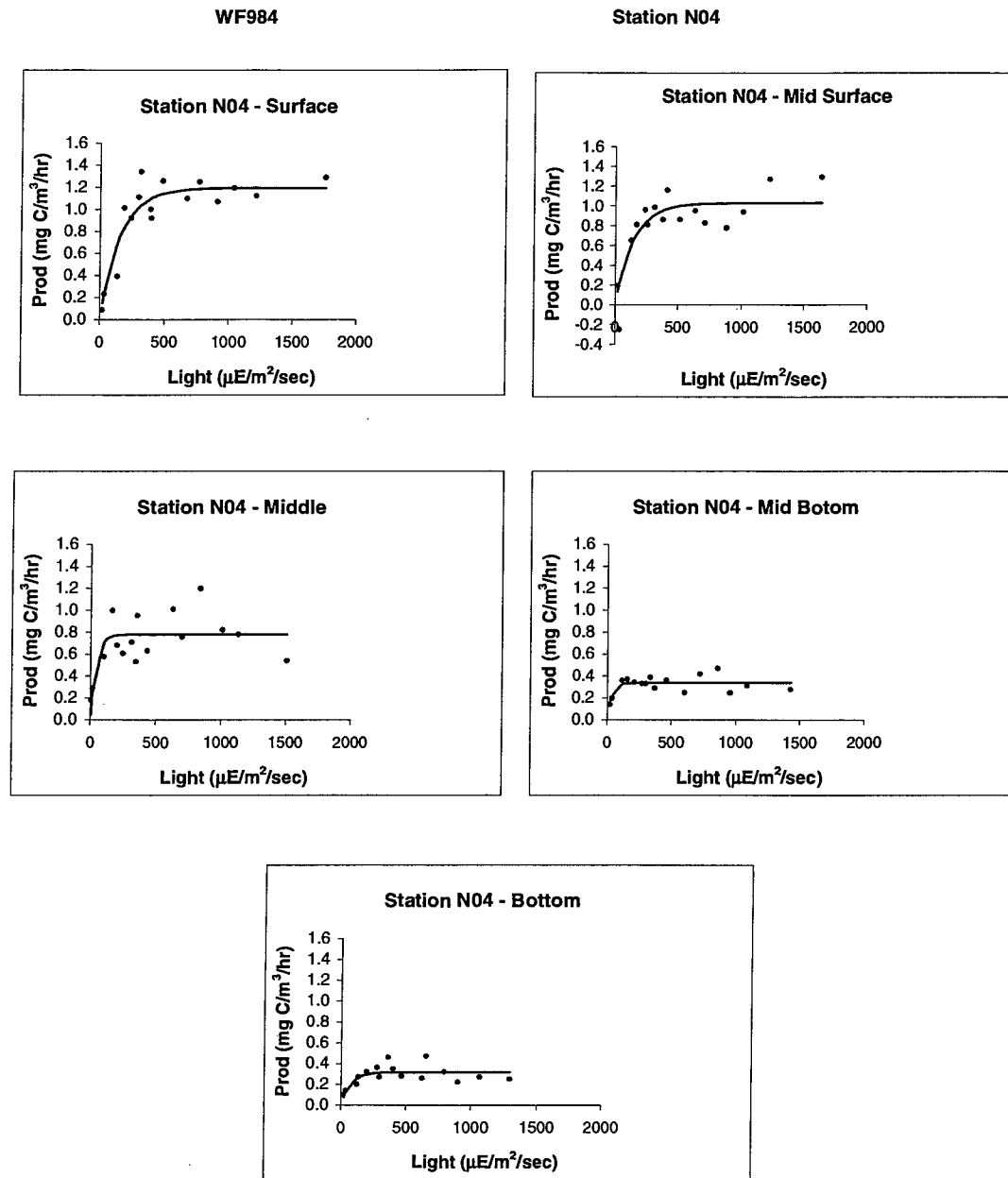


Figure E-9. Photosynthesis-Irradiance (P-I) Curves for Station N04 from Farfield Survey WF984 (Apr 98)

WF984

Station N18

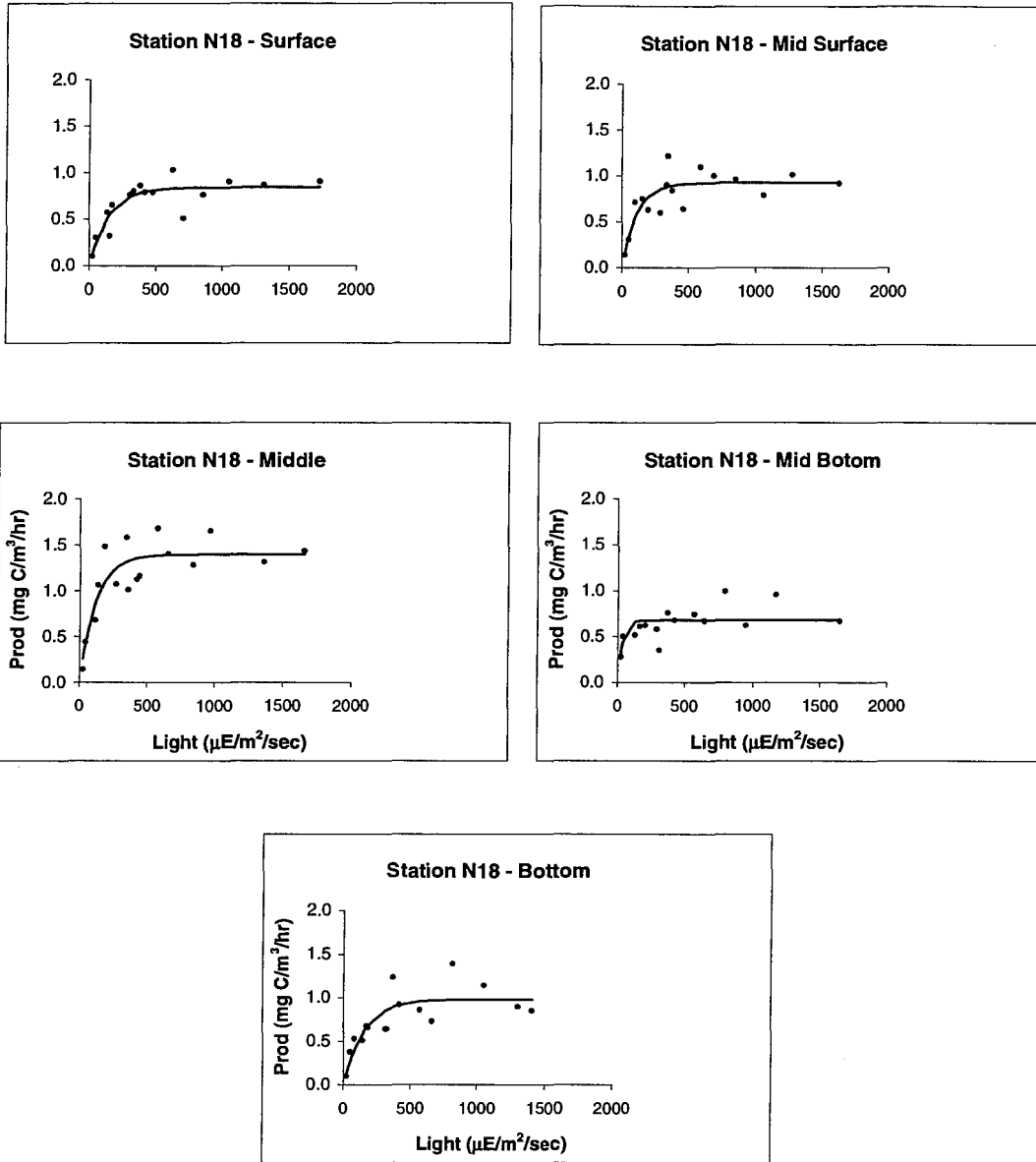


Figure E-10. Photosynthesis-Irradiance (P-I) Curves for Station N18 from Farfield Survey WF984 (Apr 98)

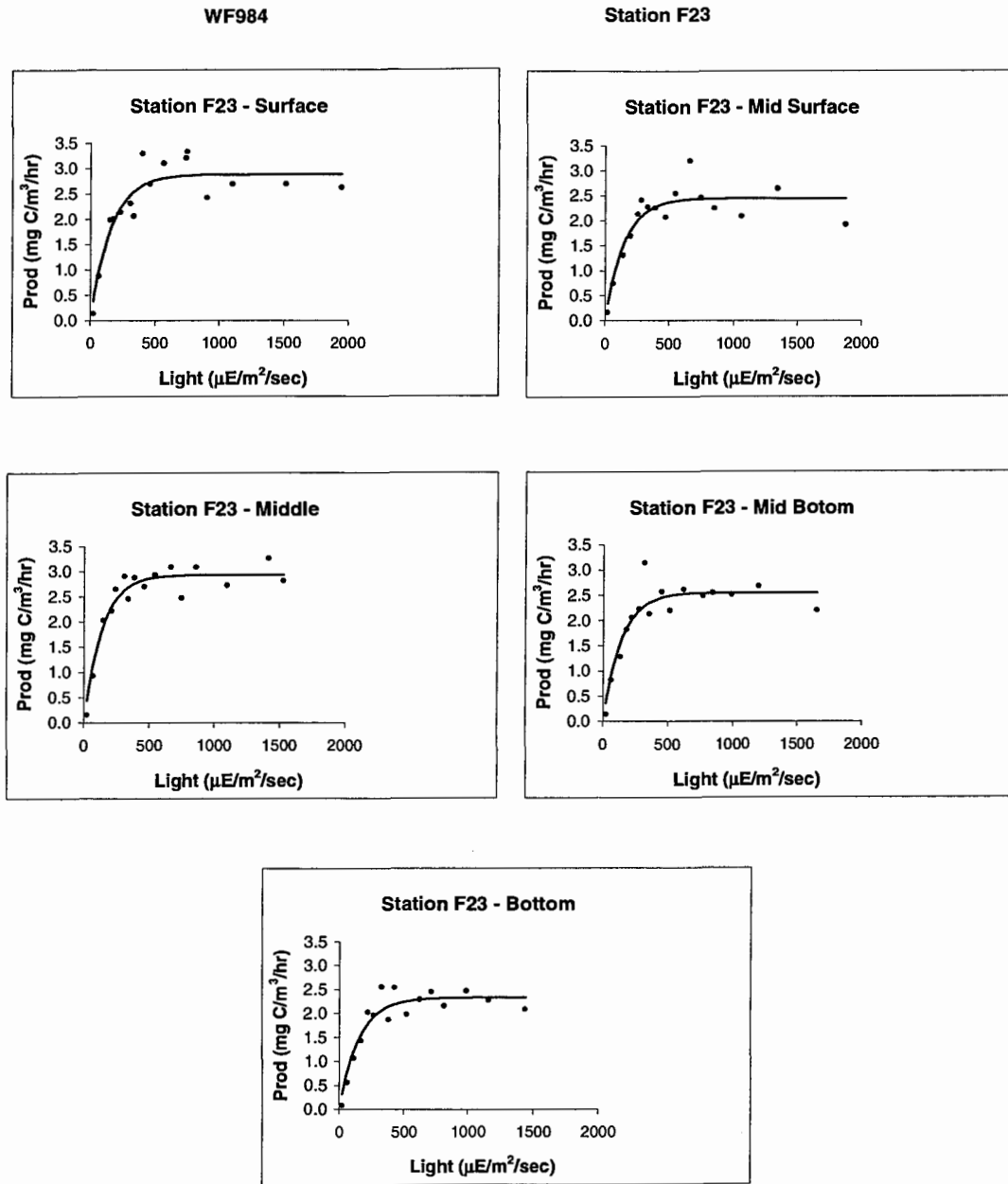


Figure E-11. Photosynthesis-Irradiance (P-I) Curves for Station F23 from Farfield Survey WF984 (Apr 98)

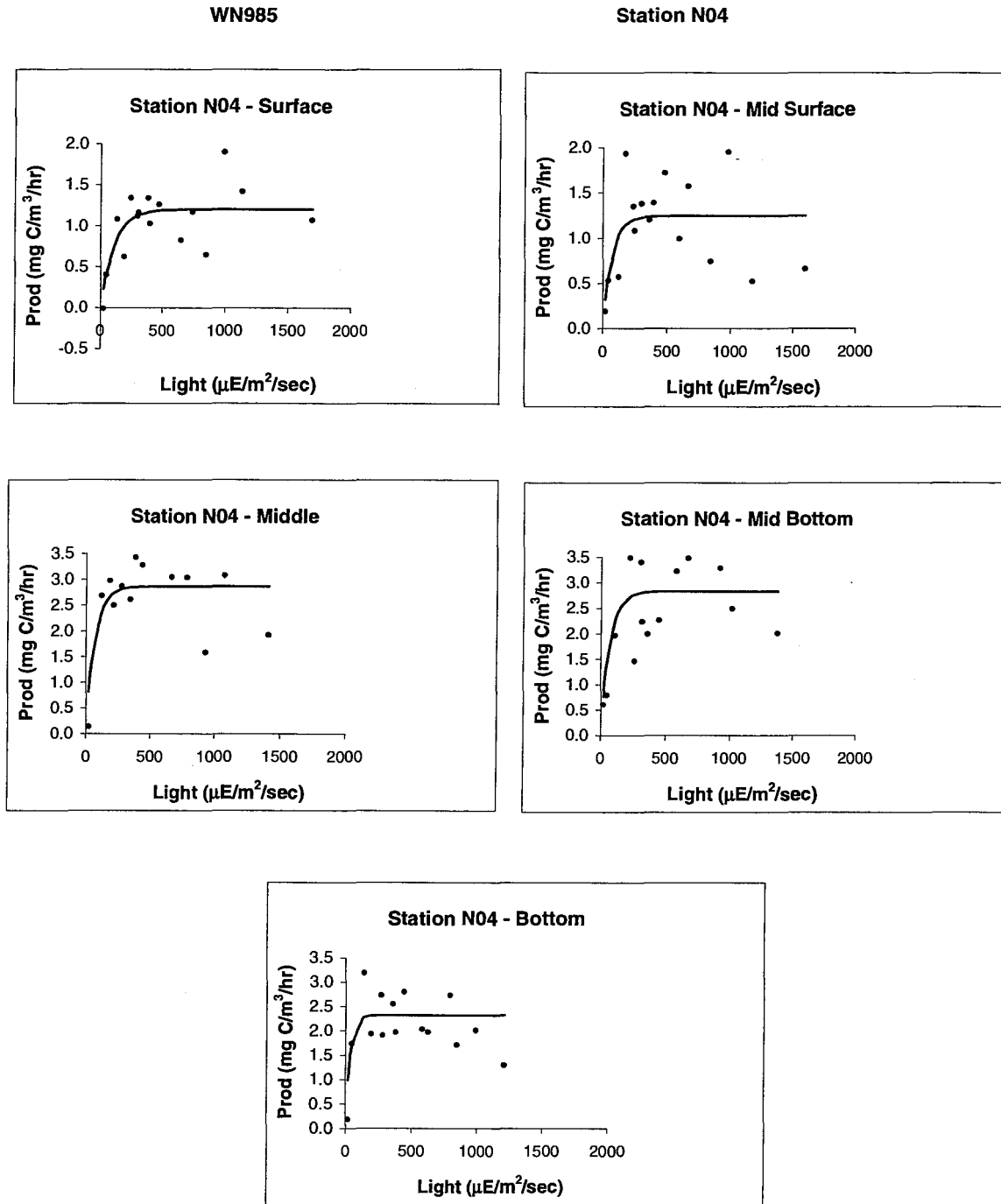


Figure E-12. Photosynthesis-Irradiance (P-I) Curves for Station N04 from Nearfield Survey WN985 (Apr 98)

WN985

Station N18

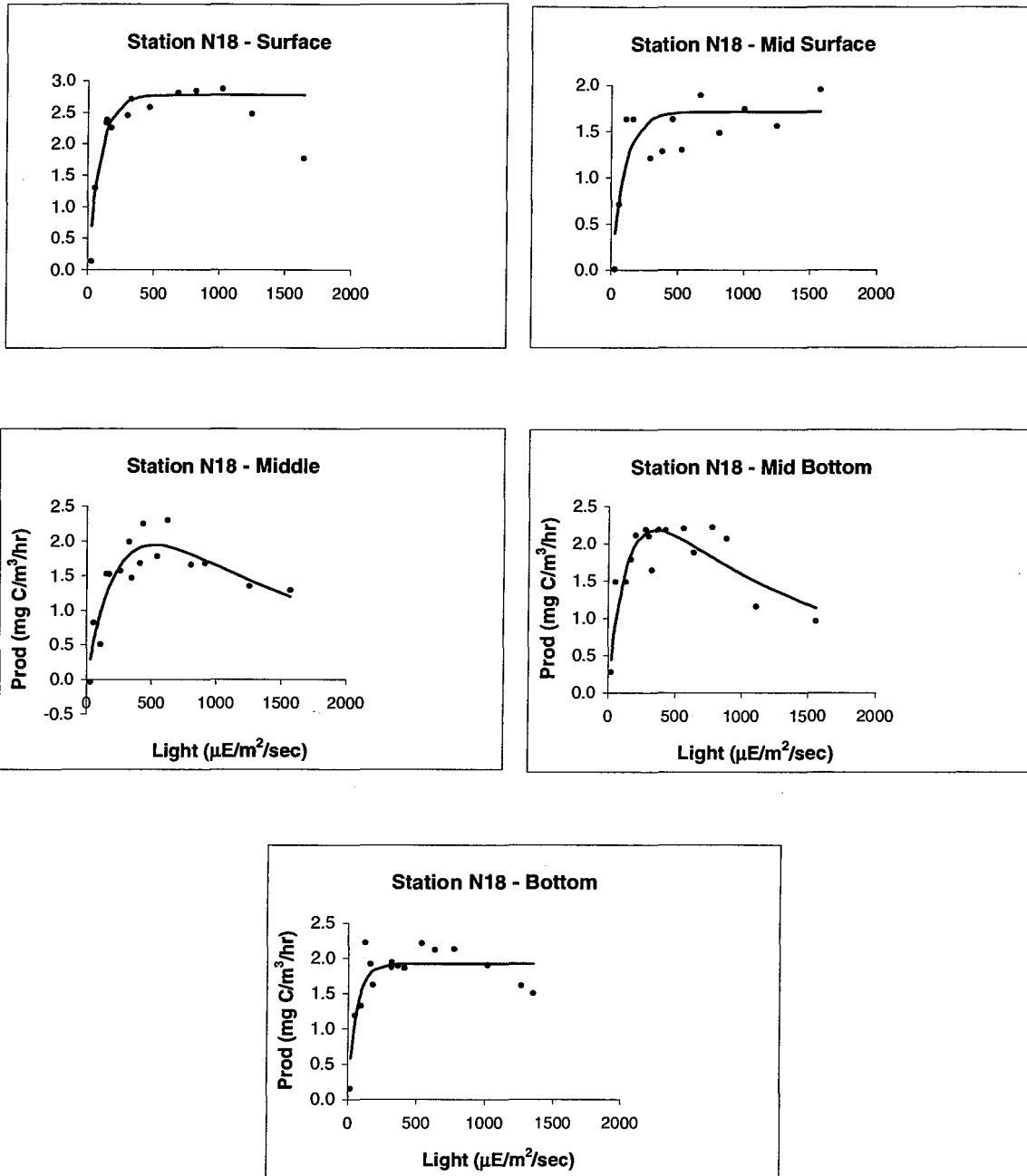


Figure E-13. Photosynthesis-Irradiance (P-I) Curves for Station N18 from Nearfield Survey WN985 (Apr 98)

WN986

Station N04

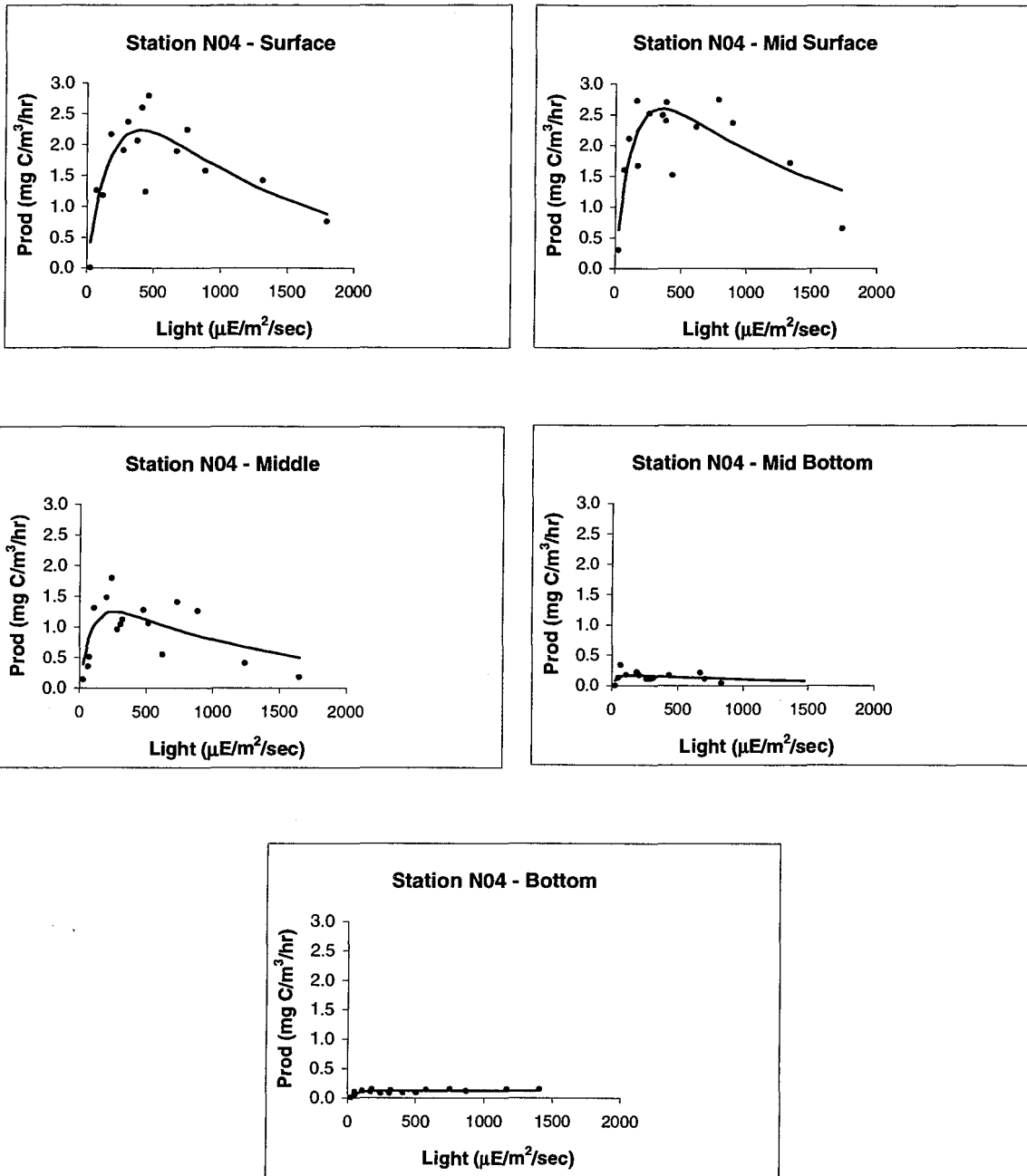


Figure E-14. Photosynthesis-Irradiance (P-I) Curves for Station N04 from Nearfield Survey
WN986 (May 98)

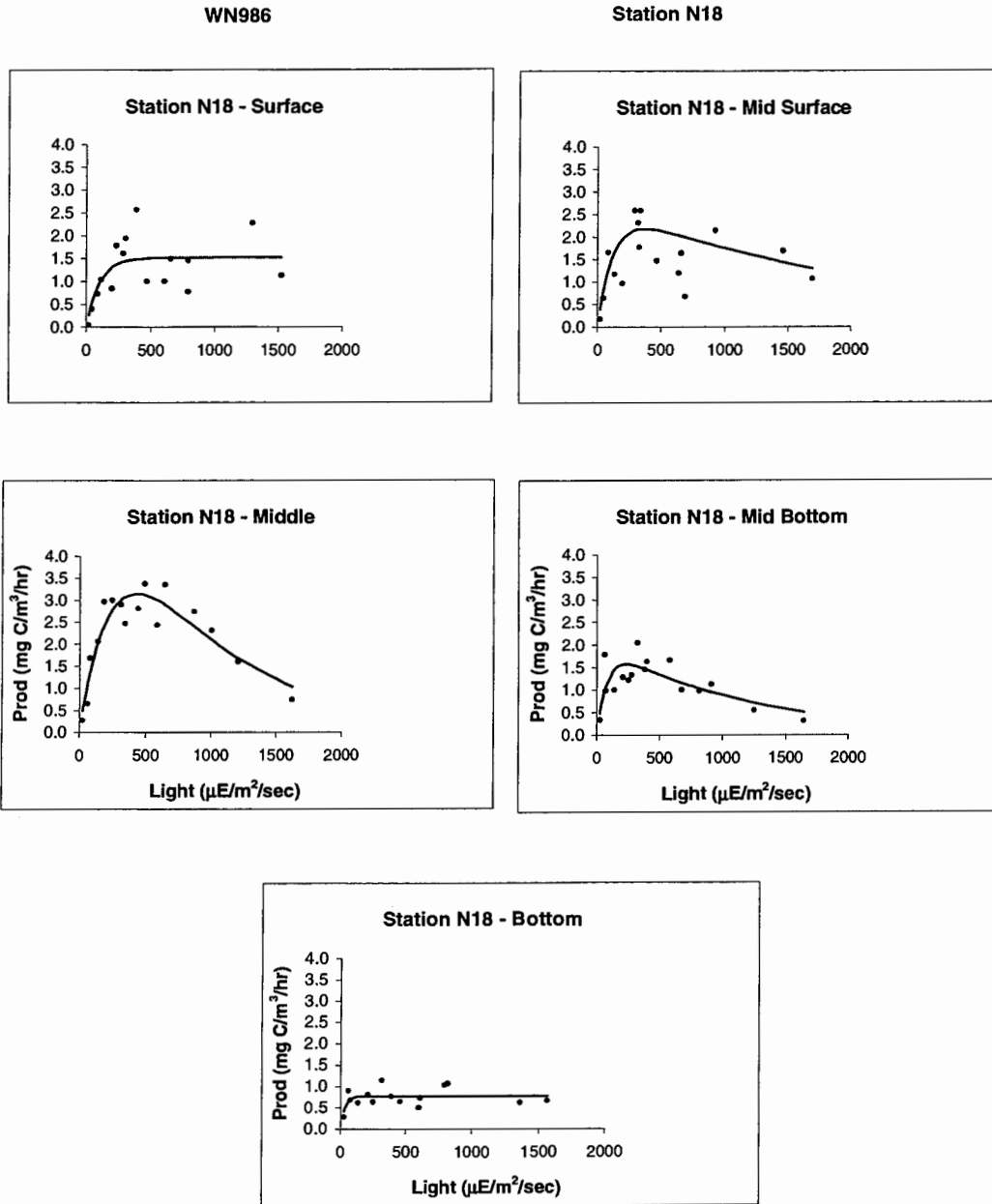


Figure E-15. Photosynthesis-Irradiance (P-I) Curves for Station N18 from Nearfield Survey WN986 (May 98)

WF987

Station N04

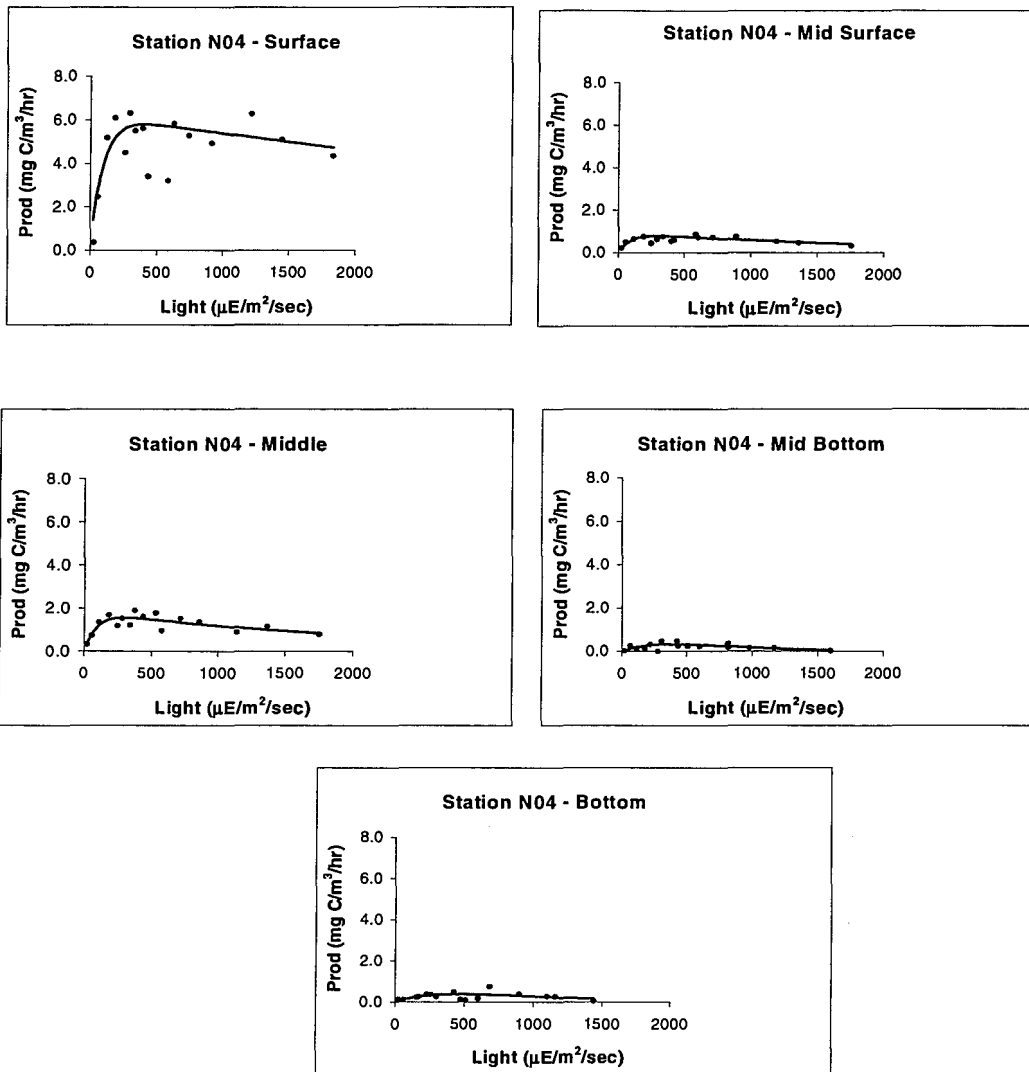


Figure E-16. Photosynthesis-Irradiance (P-I) Curves for Station N04 from Farfield Survey WF987 (Jun 98)

WF987

Station N18

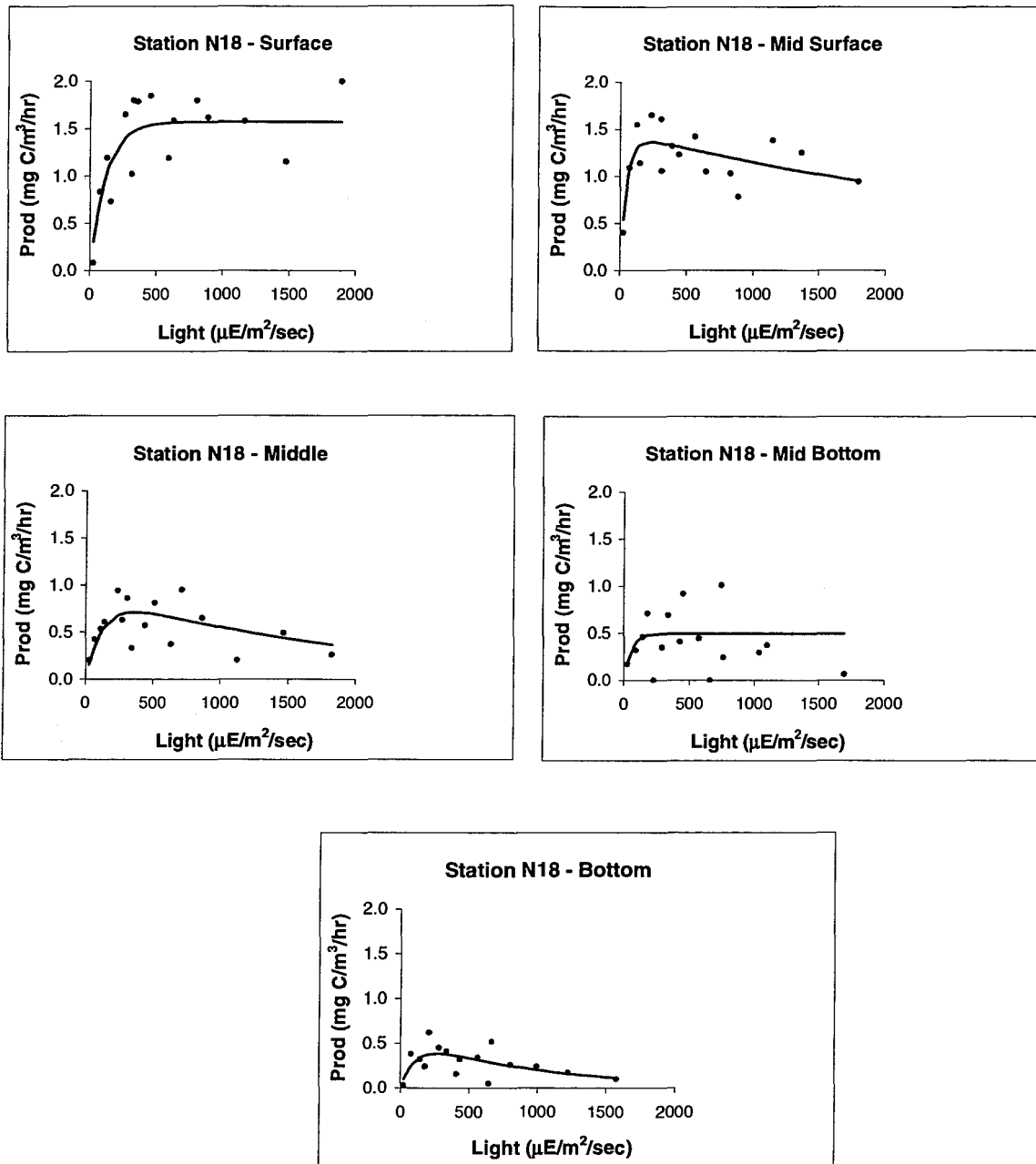


Figure E-17. Photosynthesis-Irradiance (P-I) Curves for Station N18 from Farfield Survey WF987 (Jun 98)

WF987

Station F23

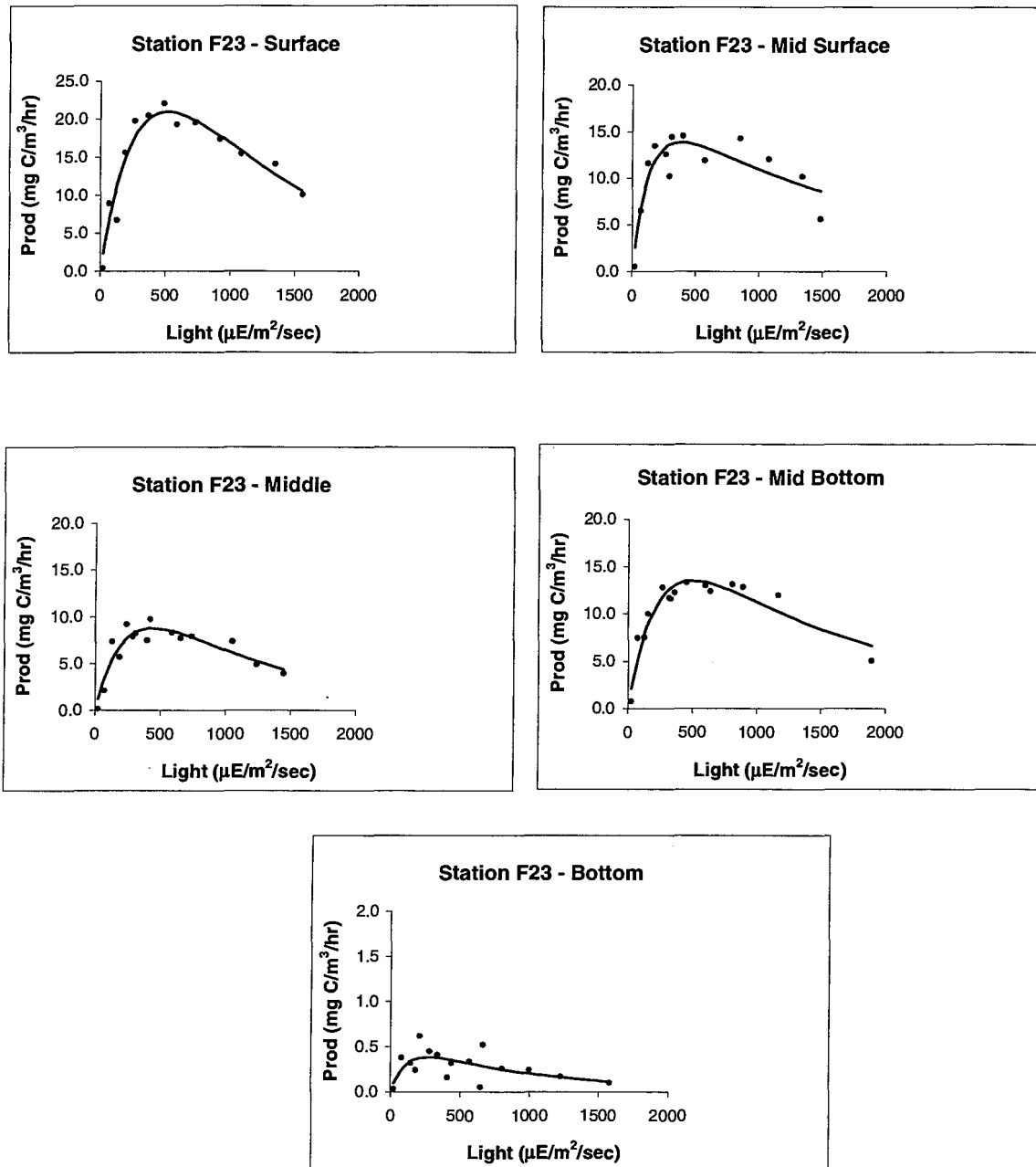


Figure E-18. Photosynthesis-Irradiance (P-I) Curves for Station F23 from Farfield Survey WF987 (Jun 98)

WN988

Station N04

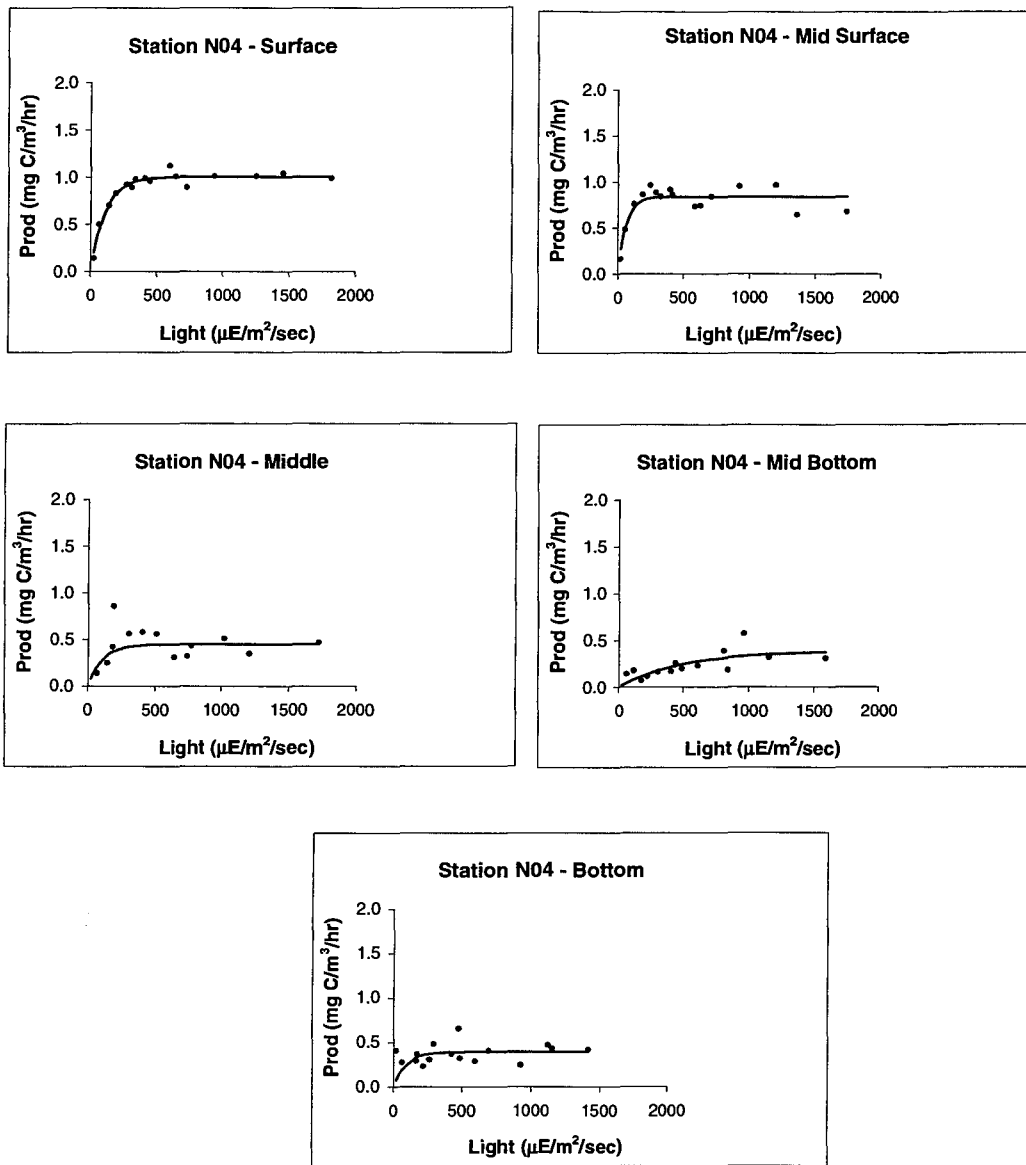


Figure E-19. Photosynthesis-Irradiance (P-I) Curves for Station N04 from Nearfield Survey WN988 (Jul 98)

WN988

Station N18

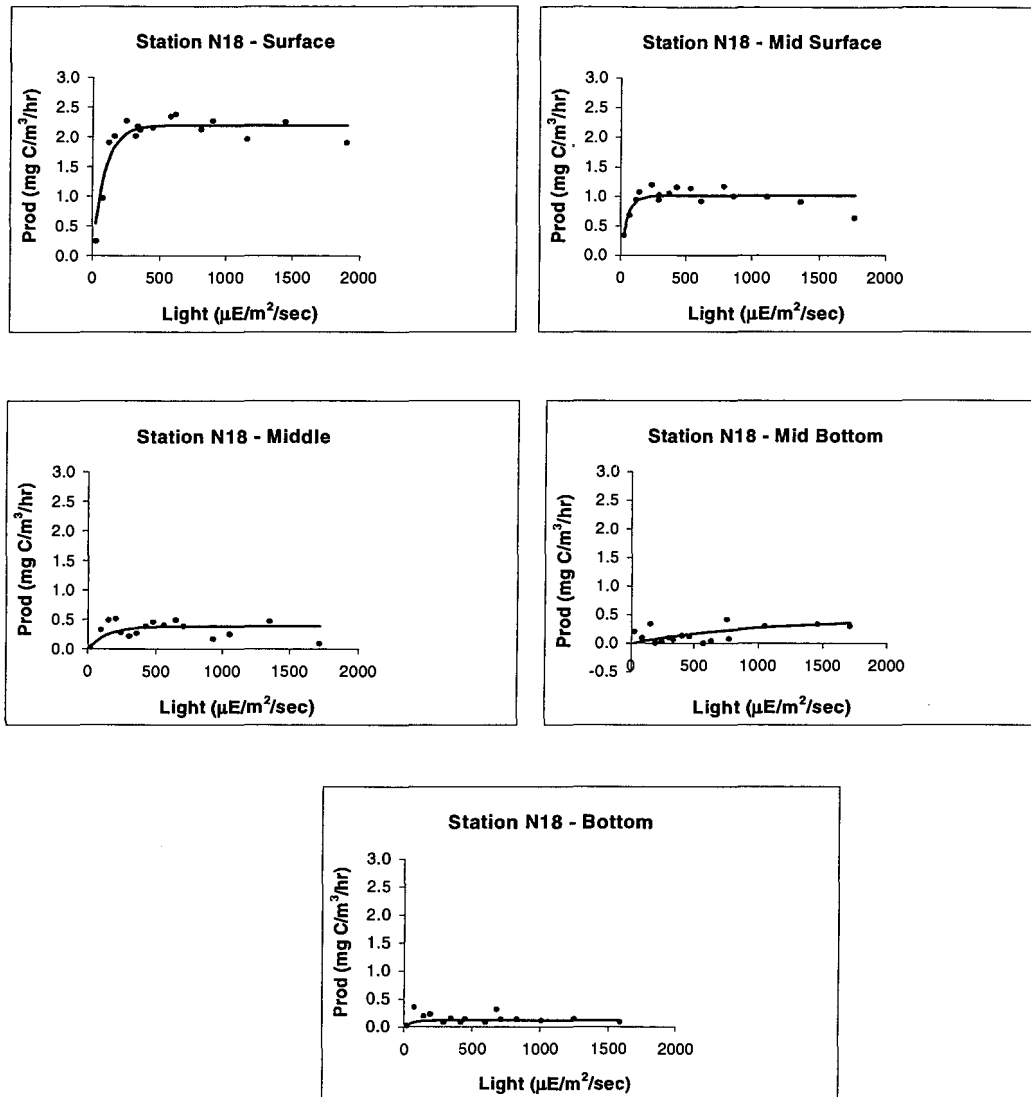


Figure E-20. Photosynthesis-Irradiance (P-I) Curves for Station N18 from Nearfield Survey
WN988 (Jul 98)

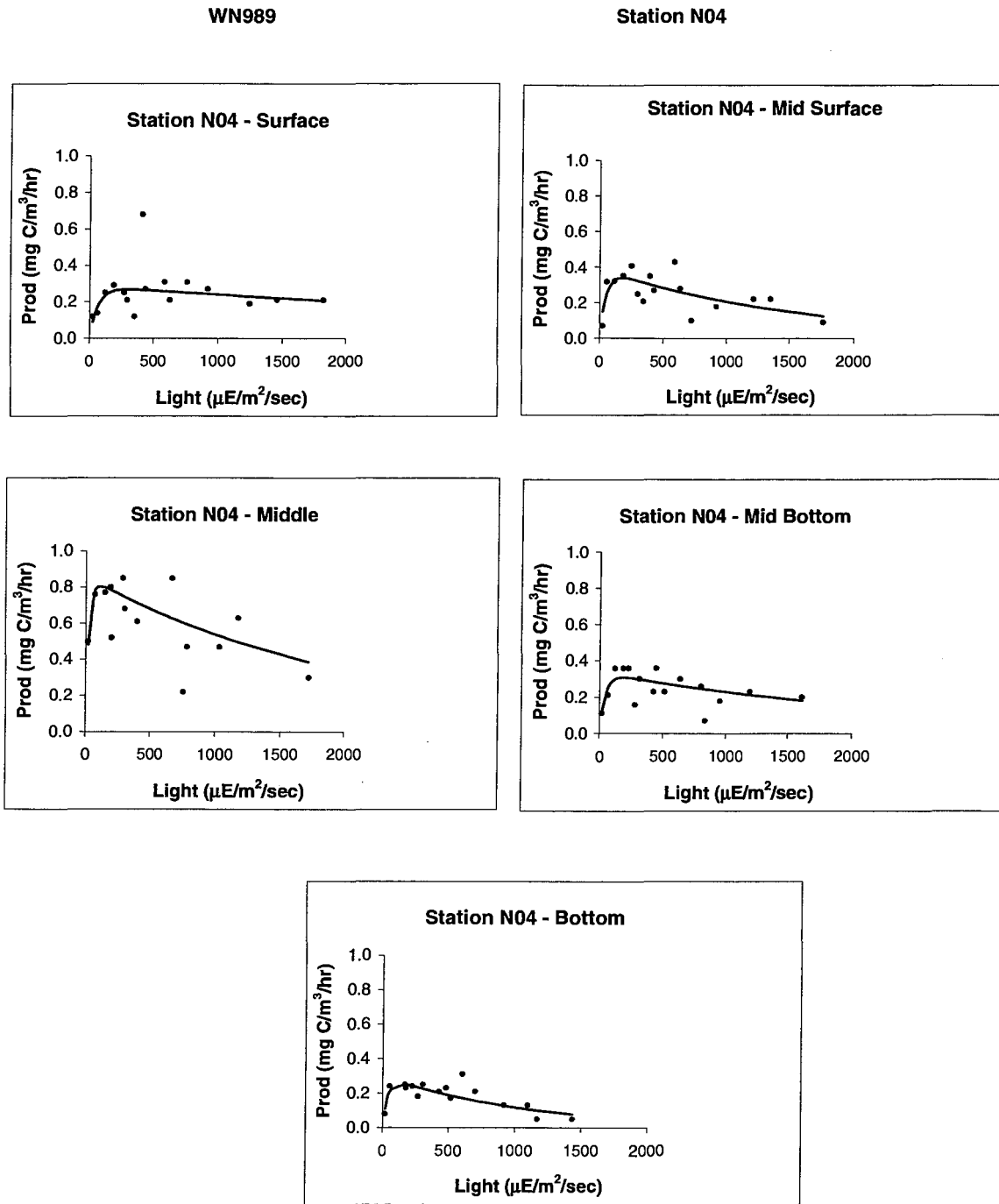


Figure E-21. Photosynthesis-Irradiance (P-I) Curves for Station N04 from Nearfield Survey
WN989 (Jul 98)

WN989

Station N18

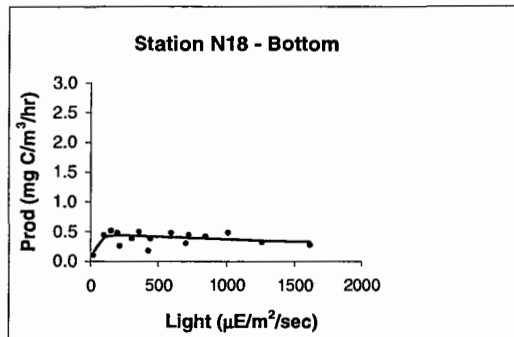
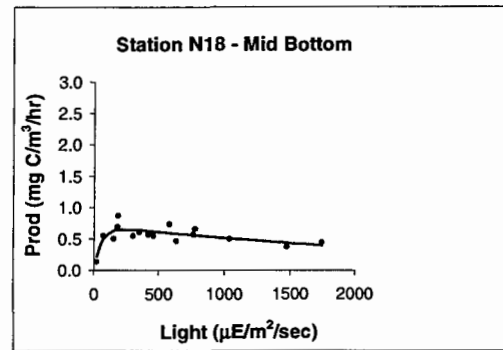
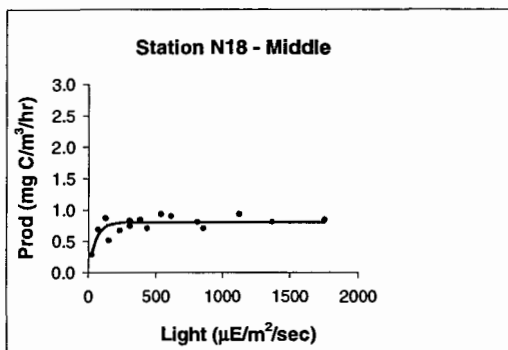
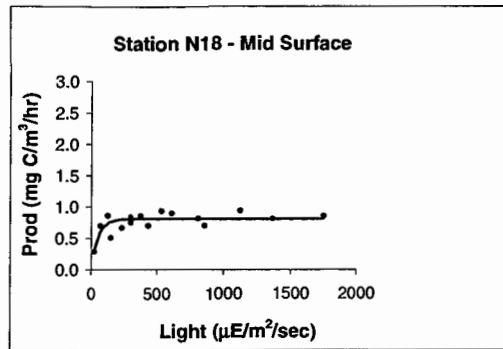
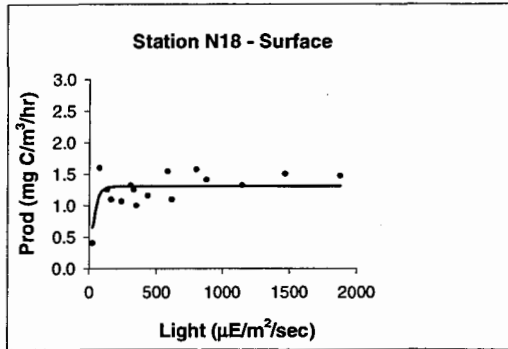


Figure E-22. Photosynthesis-Irradiance (P-I) Curves for Station N18 from Nearfield Survey
WN989 (Jul 98)

APPENDIX F

**ABUNDANCE OF PREVALENT PHYTOPLANKTON SPECIES
IN WHOLE WATER SURFACE AND CHLOROPHYLL-A MAXIMUM SAMPLES**

Life Stage Definitions:

A = ADULT (not sexed)
B = CYST
C = COPEPODITES
F = FEMALE
G = FRAGMENT
J = Juvenile (unspecified stage)
K = Colonial species, not counted individually
L = LARVAE
M = MALE
N = NAUPLII
O = OVA
P = POST LARVAE
R = REGENERATING
S = SPORES
T = TROCHOPHORE
U = UNIDENTIFIED (lumped) not able to identify to stage or gender
V = VELIGER
X = Complex
Y = CYPRIDS
Z = ZOEA
null = no value, used as a place holder for a key field

Group Definitions:

B = BARNACLE
CD = CENTRIC DIATOM
CH = CHLOROPHYTES
CR = CHRYSOPHYTES
C = COPEPOD
CY = CRYPTOPHYTES
CN = CYANOPHYTES
DF = DINOFLAGELLATES
EU = EUGLENOPHYTES
H = HAPTOPHYTES
MF = MICROFLAGELLATES
OZ = OTHER (ZOO)
PD = PENNATE DIATOM
PR = PRASINOPHYTES

Abundance of Prevalent Species (>5% Total Count) in Surface Sample
Whole Water Phytoplankton, Survey WF981

			F01	F02	F06	F13	F23	F24	F25
CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	CD	%			5.979	7.569			
		E6CELLS/L			0.011	0.025			
CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	CY	%		7.134	16.228	19.496		11.561	19.190
		E6CELLS/L		0.026	0.029	0.064		0.045	0.068
SKELETONEMA COSTATUM GREV+CLEVE	CD	%	57.024						
		E6CELLS/L	0.506						
UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	MF	%	35.301	83.572	51.247	56.423	82.170	68.979	64.394
		E6CELLS/L	0.313	0.309	0.091	0.186	0.257	0.270	0.228
UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	MF	%			9.111	5.505	6.988		
		E6CELLS/L			0.016	0.018	0.022		

Columns are Species, Group, and Units.

1 Wwsursum.bqy

Abundance of Prevalent Species (>5% Total Count) in Surface Sample
Whole Water Phytoplankton, Survey WF981

			F27	F30	F31	N04	N16	N18
CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	CD	%		9.283				5.601
		E6CELLS/L		0.038				0.013
CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	CY	%	6.456	13.436	18.122	19.957	10.694	24.694
		E6CELLS/L	0.024	0.055	0.083	0.070	0.062	0.059
SKELETONEMA COSTATUM GREV+CLEVE	CD	%			5.568			
		E6CELLS/L			0.025			
UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	MF	%	78.548	59.608	57.902	62.233	71.466	46.588
		E6CELLS/L	0.294	0.246	0.264	0.219	0.414	0.111
UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	MF	%		5.863				7.892
		E6CELLS/L		0.024				0.019

Columns are Species, Group, and Units.

2 Wwsursum.bqy

Abundance of Prevalent Species (>5% Total Count) in Surface Sample
Whole Water Phytoplankton, Survey WF982

			F01	F02	F06	F13	F23	F24	F25
CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	CD	%							
		E6CELLS/L							
CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	CY	%	11.868	10.926	8.895	14.886	12.870	18.379	12.657
		E6CELLS/L	0.125	0.090	0.028	0.064	0.085	0.070	0.070
SKELETONEMA COSTATUM GREV+CLEVE	CD	%	18.077	28.179					
		E6CELLS/L	0.190	0.232					
UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	MF	%	53.560	41.885	78.257	72.498	77.697	67.923	73.132
		E6CELLS/L	0.564	0.344	0.251	0.312	0.513	0.257	0.403

Columns are Species, Group, and Units.

1 Wwsursum.bqy

Abundance of Prevalent Species (>5% Total Count) in Surface Sample
Whole Water Phytoplankton, Survey WF982

			F27	F30	F31	N04	N16	N18
CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	CD	%	5.598			5.293		11.527
		E6CELLS/L	0.019			0.024		0.042
CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	CY	%	10.395	11.808	12.209	13.399	18.124	10.134
		E6CELLS/L	0.036	0.095	0.063	0.061	0.059	0.037
SKELETONEMA COSTATUM GREV+CLEVE	CD	%						
		E6CELLS/L						
UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	MF	%	75.566	77.365	70.188	73.666	69.010	70.716
		E6CELLS/L	0.260	0.620	0.361	0.337	0.225	0.256

Columns are Species, Group, and Units.

2 Wwsursum.bqy

Abundance of Prevalent Species (>5% Total Count) in Surface Sample
Whole Water Phytoplankton, Survey WN983

			N04	N18
CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	CY	%	17.594	13.052
		E6CELLS/L	0.107	0.080
UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	MF	%	71.204	78.147
		E6CELLS/L	0.432	0.480

Columns are Species, Group, and Units.

1 Wwsursum.bqy

Abundance of Prevalent Species (>5% Total Count) in Surface Sample
Whole Water Phytoplankton, Survey WF984

			F01	F02	F06	F13	F23	F24	F25
CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	CD	%			6.442		6.144	6.060	
		E6CELLS/L			0.019		0.053	0.042	
CHAETOCEROS COMPRESSUS	CD	%	37.722						
		E6CELLS/L	0.243						
CHAETOCEROS SP. GROUP 1 DIAM <10 MICRONS	CD	%	8.101	5.599					
		E6CELLS/L	0.052	0.031					
CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	CY	%		6.603	13.600	9.685	15.542	14.140	12.861
		E6CELLS/L		0.037	0.041	0.050	0.135	0.099	0.125
GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	DF	%			5.905				
		E6CELLS/L			0.018				
SKELETONEMA COSTATUM GREV+CLEVE	CD	%	17.487			12.350	7.471	6.960	7.337
		E6CELLS/L	0.113			0.064	0.065	0.049	0.071
UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	MF	%	16.878	57.995	63.707	62.196	62.168	59.511	63.035
		E6CELLS/L	0.109	0.323	0.190	0.323	0.540	0.416	0.611
UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	MF	%		10.336					
		E6CELLS/L		0.058					

Columns are Species, Group, and Units.

1 Wwsursum.bqy

Abundance of Prevalent Species (>5% Total Count) in Surface Sample
Whole Water Phytoplankton, Survey WF984

			F27	F30	F31	N04	N16	N18
CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	CD	%	6.268	6.229			5.399	
		E6CELLS/L	0.045	0.055			0.015	
CHAETOCEROS COMPRESSUS	CD	%						
		E6CELLS/L						
CHAETOCEROS SP. GROUP 1 DIAM <10 MICRONS	CD	%						
		E6CELLS/L						
CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	CY	%	10.399	17.404	13.342	13.087	12.957	15.694
		E6CELLS/L	0.075	0.155	0.128	0.062	0.037	0.050
GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	DF	%						
		E6CELLS/L						
SKELETONEMA COSTATUM GREV+CLEVE	CD	%		6.230	6.805			
		E6CELLS/L		0.055	0.065			
UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	MF	%	67.948	60.821	67.544	73.993	71.621	69.053
		E6CELLS/L	0.490	0.541	0.648	0.353	0.204	0.221
UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	MF	%						
		E6CELLS/L						

Columns are Species, Group, and Units.

2 Wwsursum.bqy

Abundance of Prevalent Species (>5% Total Count) in Surface Sample
Whole Water Phytoplankton, Survey WN985

			N04	N18
CHAETOCEROS SOCIALIS	CD	%	6.860	9.188
		E6CELLS/L	0.052	0.083
CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	CY	%	10.877	17.611
		E6CELLS/L	0.082	0.160
SKELETONEMA COSTATUM GREV+CLEVE	CD	%	13.362	
		E6CELLS/L	0.101	
UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	MF	%	55.242	56.428
		E6CELLS/L	0.416	0.513

Columns are Species, Group, and Units.

1 Wwsursum.bqy

Abundance of Prevalent Species (>5% Total Count) in Surface Sample
Whole Water Phytoplankton, Survey WN986

			N04	N18
CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	CD	%	23.116	16.548
		E6CELLS/L	0.149	0.119
CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	CY	%	5.717	5.373
		E6CELLS/L	0.037	0.039
SKELETONEMA COSTATUM GREV+CLEVE	CD	%	9.083	7.939
		E6CELLS/L	0.059	0.057
UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	MF	%	57.168	60.818
		E6CELLS/L	0.369	0.436

Columns are Species, Group, and Units.

1 Wwsursum.bqy

Abundance of Prevalent Species (>5% Total Count) in Surface Sample
Whole Water Phytoplankton, Survey WF987

			F01	F02	F06	F13	F23	F24	F25
CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	CD	%				6.442			
		E6CELLS/L				0.149			
CHAETOCEROS COMPRESSUS	CD	%	6.542		12.639				
		E6CELLS/L	0.083		0.243				
CHAETOCEROS SOCIALIS	CD	%	39.760		13.738	13.447			
		E6CELLS/L	0.505		0.264	0.310			
CHAETOCEROS SP. GROUP 2 DIAM 10-30 MICRONS	CD	%	8.465						
		E6CELLS/L	0.108						
CHAETOCEROS SPP.(<10UM)	CD	%		10.133	36.733	28.290	9.511	20.801	
		E6CELLS/L		0.078	0.706	0.653	0.355	0.796	
CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	CY	%				5.042			
		E6CELLS/L				0.116			
GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	DF	%							
		E6CELLS/L							
LEPTOCYLINDRUS MINIMUS	CD	%		6.334					
		E6CELLS/L		0.049					
PROBOSCIA ALATA	CD	%		6.334					
		E6CELLS/L		0.049					
PSEUDONITZSCHIA DELICATISSIMA	PD	%					7.504		5.092
		E6CELLS/L					0.280		0.251
SKELETONEMA COSTATUM GREV+CLEVE	CD	%					47.207	52.941	63.908
		E6CELLS/L					1.764	2.025	3.152
UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	MF	%	25.908	49.822	20.093	32.072	15.707	13.896	9.994
		E6CELLS/L	0.329	0.385	0.386	0.740	0.587	0.531	0.493

Columns are Species, Group, and Units.

1 Wwsursum.bqy

Abundance of Prevalent Species (>5% Total Count) in Surface Sample
Whole Water Phytoplankton, Survey WF987

			F27	F30	F31	N04	N16	N18
CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	CD	%						
		E6CELLS/L						
CHAETOCEROS COMPRESSUS	CD	%	8.553					
		E6CELLS/L	0.017					
CHAETOCEROS SOCIALIS	CD	%		24.542	13.282			
		E6CELLS/L		0.590	0.235			
CHAETOCEROS SP. GROUP 2 DIAM 10-30 MICRONS	CD	%	7.196					
		E6CELLS/L	0.014					
CHAETOCEROS SPP.(<10UM)	CD	%	6.089		24.180		10.052	
		E6CELLS/L	0.012		0.429		0.058	
CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	CY	%		22.644	17.880			6.144
		E6CELLS/L		0.544	0.317			0.020
GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	DF	%					5.026	7.680
		E6CELLS/L					0.029	0.024
LEPTOCYLINDRUS MINIMUS	CD	%						
		E6CELLS/L						
PROBOSCIA ALATA	CD	%						
		E6CELLS/L						
PSEUDONITZSCHIA DELICATISSIMA	PD	%				17.829	8.407	
		E6CELLS/L				0.323	0.049	
SKELETONEMA COSTATUM GREV+CLEVE	CD	%		13.559	6.599	43.424	38.127	
		E6CELLS/L		0.326	0.117	0.787	0.221	
UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	MF	%	49.819	21.017	26.734	14.651	23.743	48.129
		E6CELLS/L	0.098	0.505	0.474	0.266	0.138	0.153

Columns are Species, Group, and Units.

2 Wwsursum.bqy

Abundance of Prevalent Species (>5% Total Count) in Surface Sample
Whole Water Phytoplankton, Survey WN988

			N04	N18
LEPTOCYLINDRUS MINIMUS	CD	%	13.365	14.673
		E6CELLS/L	0.442	0.482
RHIZOLENIA FRAGILISSIMA	CD	%	7.344	
		E6CELLS/L	0.243	
SKELETONEMA COSTATUM GREV+CLEVE	CD	%	5.702	5.210
		E6CELLS/L	0.189	0.171
UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	MF	%	62.218	66.052
		E6CELLS/L	2.059	2.170

Columns are Species, Group, and Units.
1 Wwsursum.bqy

Abundance of Prevalent Species (>5% Total Count) in Surface Sample
Whole Water Phytoplankton, Survey WN989

			N04	N18
LEPTOCYLINDRUS DANICUS	CD	%	21.339	
		E6CELLS/L	0.525	
LEPTOCYLINDRUS MINIMUS	CD	%	5.335	29.678
		E6CELLS/L	0.131	0.644
UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	MF	%	64.978	59.015
		E6CELLS/L	1.600	1.280

Columns are Species, Group, and Units.
1 Wwsursum.bqy

Abundance of Prevalent Species (>5% Total Count) in Chlorophyll a Maximum Sample
Whole Water Phytoplankton, Survey WF981

			F01	F02	F06	F13	F23
CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	CD	%			6.931		
		E6CELLS/L			0.014		
CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	CY	%		11.665	16.832	9.627	
		E6CELLS/L		0.037	0.034	0.065	
SKELETONEMA COSTATUM GREV+CLEVE	CD	%	55.829				
		E6CELLS/L	0.435				
UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	MF	%	37.422	74.319	58.169	78.359	81.397
		E6CELLS/L	0.292	0.239	0.118	0.528	0.296
UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	MF	%			5.446		
		E6CELLS/L			0.011		

Columns are Species, Groups, and Units.

1 Wwmaxsum.bqy

Abundance of Prevalent Species (>5% Total Count) in Chlorophyll a Maximum Sample
Whole Water Phytoplankton, Survey WF981

			F24	F25	F27	F30	F31
CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	CD	%					5.867
		E6CELLS/L					0.038
CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	CY	%		5.818		21.501	18.878
		E6CELLS/L		0.028		0.100	0.123
SKELETONEMA COSTATUM GREV+CLEVE	CD	%					
		E6CELLS/L					
UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	MF	%	80.306	79.378	84.548	54.078	62.756
		E6CELLS/L	0.370	0.384	0.146	0.251	0.409
UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	MF	%				5.864	
		E6CELLS/L				0.027	

Columns are Species, Groups, and Units.

2 Wwmaxsum.bqy

Abundance of Prevalent Species (>5% Total Count) in Chlorophyll a Maximum Sample
Whole Water Phytoplankton, Survey WF981

			N04	N16	N18
CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	CD	%	5.577		
		E6CELLS/L	0.013		
CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	CY	%	22.307	16.015	25.788
		E6CELLS/L	0.053	0.052	0.014
SKELETONEMA COSTATUM GREV+CLEVE	CD	%			
		E6CELLS/L			
UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	MF	%	58.556	70.765	57.914
		E6CELLS/L	0.139	0.229	0.032
UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	MF	%	5.323		
		E6CELLS/L	0.013		

Columns are Species, Groups, and Units.

3 Wwmaxsum.bqy

Abundance of Prevalent Species (>5% Total Count) in Chlorophyll a Maximum Sample
Whole Water Phytoplankton, Survey WF982

			F01	F02	F06	F13	F23
CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	CD	%					
		E6CELLS/L					
CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	CY	%	10.904	5.814	16.038	17.752	15.541
		E6CELLS/L	0.095	0.074	0.060	0.065	0.064
GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	DF	%					
		E6CELLS/L					
SKELETONEMA COSTATUM GREV+CLEVE	CD	%	18.470	44.245			
		E6CELLS/L	0.160	0.564			
THALASSIOSIRA ROTULA	CD	%	5.153				
		E6CELLS/L	0.045				
UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	MF	%	49.647	36.784	74.707	69.416	67.605
		E6CELLS/L	0.431	0.469	0.278	0.254	0.279

Columns are Species, Groups, and Units.

1 Wwmaxsum.bqy

Abundance of Prevalent Species (>5% Total Count) in Chlorophyll a Maximum Sample
Whole Water Phytoplankton, Survey WF982

			F24	F25	F27	F30	F31
CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	CD	%			6.024	6.010	
		E6CELLS/L			0.018	0.044	
CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	CY	%	14.473	21.441	15.663	16.742	29.321
		E6CELLS/L	0.056	0.102	0.047	0.123	0.136
GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	DF	%					
		E6CELLS/L					
SKELETONEMA COSTATUM GREV+CLEVE	CD	%					
		E6CELLS/L					
THALASSIOSIRA ROTULA	CD	%					
		E6CELLS/L					
UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	MF	%	73.822	63.685	74.298	69.974	50.776
		E6CELLS/L	0.284	0.302	0.224	0.513	0.236

Columns are Species, Groups, and Units.
2 Wwmaxsum.bqy

Abundance of Prevalent Species (>5% Total Count) in Chlorophyll a Maximum Sample
Whole Water Phytoplankton, Survey WF982

			N04	N16	N18
CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	CD	%			
		E6CELLS/L			
CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	CY	%	5.864	18.119	10.151
		E6CELLS/L	0.012	0.063	0.030
GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	DF	%	8.253		6.455
		E6CELLS/L	0.017		0.019
SKELETONEMA COSTATUM GREV+CLEVE	CD	%			
		E6CELLS/L			
THALASSIOSIRA ROTULA	CD	%			
		E6CELLS/L			
UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	MF	%	78.404	72.936	78.501
		E6CELLS/L	0.165	0.255	0.233

Columns are Species, Groups, and Units.

3 Wwmaxsum.bqy

Abundance of Prevalent Species (>5% Total Count) in Chlorophyll a Maximum Sample
Whole Water Phytoplankton, Survey WN983

			N04	N18
CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	CY	%	17.972	
		E6CELLS/L	0.090	
UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	MF	%	67.181	83.812
		E6CELLS/L	0.335	0.340

Columns are Species, Groups, and Units.

1 Wwmaxsum.bqy

Abundance of Prevalent Species (>5% Total Count) in Chlorophyll a Maximum Sample
Whole Water Phytoplankton, Survey WF984

			F01	F02	F06	F13	F23	F24	F25
CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	CD	%		5.082		5.405		5.475	
		E6CELLS/L		0.030		0.024		0.034	
CHAETOCEROS COMPRESSUS	CD	%	11.176						
		E6CELLS/L	0.280						
CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	CY	%	5.978	13.975	5.854	14.775	16.068	13.002	15.792
		E6CELLS/L	0.150	0.082	0.014	0.067	0.136	0.080	0.133
GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	DF	%			6.080				
		E6CELLS/L			0.014				
SKELETONEMA COSTATUM GREV+CLEVE	CD	%	40.286	5.082			6.830	6.816	11.009
		E6CELLS/L	1.011	0.030			0.058	0.042	0.093
UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	MF	%	28.590	61.887	76.559	65.945	64.649	62.103	58.893
		E6CELLS/L	0.717	0.364	0.178	0.298	0.547	0.384	0.498

Columns are Species, Groups, and Units.

1 Wwmaxsum.bqy

Abundance of Prevalent Species (>5% Total Count) in Chlorophyll a Maximum Sample
Whole Water Phytoplankton, Survey WF984

			F27	F30	F31	N04	N16	N18
CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	CD	%	5.992	5.820		5.696		
		E6CELLS/L	0.032	0.062		0.020		
CHAETOCEROS COMPRESSUS	CD	%						
		E6CELLS/L						
CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	CY	%	12.190	10.931	14.440	13.707	17.274	15.013
		E6CELLS/L	0.064	0.116	0.090	0.048	0.048	0.059
GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	DF	%				7.833	6.955	6.898
		E6CELLS/L				0.028	0.019	0.027
SKELETONEMA COSTATUM GREV+CLEVE	CD	%		10.081	10.701			
		E6CELLS/L		0.107	0.067			
UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	MF	%	67.562	64.025	62.107	67.646	65.507	67.965
		E6CELLS/L	0.355	0.681	0.388	0.239	0.183	0.268

Columns are Species, Groups, and Units.

2 Wwmaxsum.bqy

Abundance of Prevalent Species (>5% Total Count) in Chlorophyll a Maximum Sample
Whole Water Phytoplankton, Survey WN985

			N04	N18
CHAETOCEROS SOCIALIS	CD	%	7.166	12.442
		E6CELLS/L	0.159	0.074
CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	CY	%		13.785
		E6CELLS/L		0.082
SKELETONEMA COSTATUM GREV+CLEVE	CD	%		5.718
		E6CELLS/L		0.034
UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	MF	%	77.334	55.671
		E6CELLS/L	1.717	0.330

Columns are Species, Groups, and Units.

1 Wwmaxsum.bqy

Abundance of Prevalent Species (>5% Total Count) in Chlorophyll a Maximum Sample
Whole Water Phytoplankton, Survey WN986

			N04	N18
CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	CD	%	14.886	20.694
		E6CELLS/L	0.086	0.255
GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	DF	%		7.409
		E6CELLS/L		0.091
THALASSIOSIRA SP. GROUP 1 DIAM <20 MICRONS	CD	%		5.548
		E6CELLS/L		0.068
UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	MF	%	69.286	49.818
		E6CELLS/L	0.403	0.613

Columns are Species, Groups, and Units.

1 Wwmaxsum.bqy

Abundance of Prevalent Species (>5% Total Count) in Chlorophyll a Maximum Sample
Whole Water Phytoplankton, Survey WF987

			F01	F02	F06	F13	F23	F24	F25
CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	CD	%		7.854					
		E6CELLS/L		0.036					
CERATAULINA PELAGICA	CD	%						6.505	
		E6CELLS/L						0.057	
CHAETOCEROS COMPRESSUS	CD	%			5.809	6.141		9.302	9.114
		E6CELLS/L			0.165	0.088		0.082	0.342
CHAETOCEROS SOCIALIS	CD	%	45.596		41.504	16.145	27.293		8.439
		E6CELLS/L	0.685		1.178	0.231	0.590		0.317
CHAETOCEROS SPP.(<10UM)	CD	%	10.227	9.282	33.045	46.389	17.021	37.202	13.586
		E6CELLS/L	0.154	0.042	0.938	0.665	0.368	0.326	0.510
CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	CY	%							6.667
		E6CELLS/L							0.250
GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	DF	%							
		E6CELLS/L							
PENNATE DIATOM SP. GROUP 2 10-30 MICRONS LENGTH	PD	%							
		E6CELLS/L							
PSEUDONITZSCHIA DELICATISSIMA	PD	%					11.299		
		E6CELLS/L					0.244		
SKELETONEMA COSTATUM GREV+CLEVE	CD	%					15.407	7.782	28.354
		E6CELLS/L					0.333	0.068	1.065
UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	MF	%	24.929	66.404	11.165	21.375	11.592	21.701	17.468
		E6CELLS/L	0.374	0.303	0.317	0.306	0.250	0.190	0.656

Columns are Species, Groups, and Units.
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Abundance of Prevalent Species (>5% Total Count) in Chlorophyll a Maximum Sample
Whole Water Phytoplankton, Survey WF987

			F27	F30	F31	N04	N16	N18
CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	CD	%						
		E6CELLS/L						
CERATAULINA PELAGICA	CD	%						
		E6CELLS/L						
CHAETOCEROS COMPRESSUS	CD	%						
		E6CELLS/L						
CHAETOCEROS SOCIALIS	CD	%		28.549	14.552		7.869	
		E6CELLS/L		0.821	0.239		0.160	
CHAETOCEROS SPP.(<10UM)	CD	%	12.713	9.551	35.791		61.915	6.622
		E6CELLS/L	0.020	0.275	0.588		1.259	0.010
CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	CY	%		14.484	9.243	9.071		
		E6CELLS/L		0.417	0.152	0.041		
GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	DF	%						7.726
		E6CELLS/L						0.011
PENNATE DIATOM SP. GROUP 2 10-30 MICRONS LENGTH	PD	%					5.345	
		E6CELLS/L					0.109	
PSEUDONITZSCHIA DELICATISSIMA	PD	%						
		E6CELLS/L						
SKELETONEMA COSTATUM GREV+CLEVE	CD	%	5.220	6.717		5.516		
		E6CELLS/L	0.008	0.193		0.025		
UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	MF	%	54.198	21.517	26.745	51.160	12.918	48.012
		E6CELLS/L	0.086	0.619	0.439	0.230	0.263	0.071

Columns are Species, Groups, and Units.

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Abundance of Prevalent Species (>5% Total Count) in Chlorophyll a Maximum Sample
Whole Water Phytoplankton, Survey WN988

			N04	N18
LEPTOCYLINDRUS DANICUS	CD	%		7.066
		E6CELLS/L		0.119
LEPTOCYLINDRUS MINIMUS	CD	%		10.733
		E6CELLS/L		0.181
PROBOSCIA ALATA	CD	%	6.001	
		E6CELLS/L	0.069	
SKELETONEMA COSTATUM GREV+CLEVE	CD	%		14.490
		E6CELLS/L		0.245
UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	MF	%	85.357	52.310
		E6CELLS/L	0.975	0.883

Columns are Species, Groups, and Units.

1 Wwmaxsum.bqy

Abundance of Prevalent Species (>5% Total Count) in Chlorophyll a Maximum Sample
Whole Water Phytoplankton, Survey WN989

			N04	N18
GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	DF	%	23.927	6.742
		E6CELLS/L	0.384	0.093
UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	MF	%	68.768	78.348
		E6CELLS/L	1.104	1.080

Columns are Species, Groups, and Units.

1 Wwmaxsum.bqy

APPENDIX G

**ABUNDANCE OF PREVALENT PHYTOPLANKTON SPECIES
IN SCREENED WATER SURFACE AND CHLOROPHYLL-A MAXIMUM SAMPLES**

Abundance of Prevalent Species (>5% Total Count) in Surface Sample
Screened Phytoplankton, Survey WF981

			F01	F02	F06	F13	F23	F24	F25	F27	F30	F31
ATHECATE DINOFLAGELLATE	DF	%					16.7					
		CELLS/L					19.8					
CERATIUM FURCA	DF	%						15.0				
		CELLS/L						12.8				
CERATIUM FUSUS	DF	%			10.0			5.0				
		CELLS/L			20.6			4.3				
CERATIUM LONGIPES	DF	%								6.5		
		CELLS/L								5.0		
CERATIUM TRIPOS	DF	%	8.3	5.9				10.0		25.8		
		CELLS/L	12.5	4.9				8.5		20.0		
DICTYOCHA FIBULA	CR	%					5.6			9.7		
		CELLS/L					6.6			7.5		
DINOPHYSIS ACUMINATA	DF	%										
		CELLS/L										
DISTEPHANUS SPECULUM	CR	%	29.2	94.1	78.0	87.5	77.8	60.0	100.0	54.8	100.0	100.0
		CELLS/L	43.8	78.0	160.9	129.5	92.4	51.0	45.0	42.5	21.5	40.5
MESODINIUM RUBRUM	DF	%	41.7					5.0				
		CELLS/L	62.5					4.3				
PROTOPERIDINIUM DEPRESSUM	DF	%						5.0				
		CELLS/L						4.3				
THECATE DINOFLAGELLATE SPP.	DF	%				6.3						
		CELLS/L				9.3						

Columns are Species, Group and Units.

1 Swsursum.bqy

Abundance of Prevalent Species (>5% Total Count) in Surface Sample
Screened Phytoplankton, Survey WF981

			N04	N16	N18
ATHECATE DINOFLAGELLATE	DF	%			
		CELLS/L			
CERATIUM FURCA	DF	%			
		CELLS/L			
CERATIUM FUSUS	DF	%			
		CELLS/L			
CERATIUM LONGIPES	DF	%		6.7	
		CELLS/L		8.0	
CERATIUM TRIPOS	DF	%	8.8	20.0	11.4
		CELLS/L	17.3	24.0	28.1
DICTYOCHA FIBULA	CR	%			
		CELLS/L			
DINOPHYSIS ACUMINATA	DF	%	5.9		5.1
		CELLS/L	11.5		12.5
DISTEPHANUS SPECULUM	CR	%	73.5	53.3	65.8
		CELLS/L	143.8	64.0	162.5
MESODINIUM RUBRUM	DF	%	11.8	10.0	10.1
		CELLS/L	23.0	12.0	25.0
PROTOPERIDINIUM DEPRESSUM	DF	%			
		CELLS/L			
THECATE DINOFLAGELLATE SPP.	DF	%			
		CELLS/L			

Columns are Species, Group and Units.
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Abundance of Prevalent Species (>5% Total Count) in Surface Sample
Screened Phytoplankton, Survey WF982

			F01	F02	F06	F13	F23	F24	F25	F27	F30	F31
AMYLAX TRIACANTHA	DF	%		6.6								
		CELLS/L		8.0								
ATHECATE DINOFLAGELLATE	DF	%		14.8							9.1	
		CELLS/L		18.0								3.3
CERATIUM FUSUS	DF	%			5.1		11.1					
		CELLS/L			5.0		6.0					
CERATIUM LONGIPES	DF	%	21.3		28.3	12.7		28.3	49.2	39.6		
		CELLS/L	25.0		27.5	16.4		37.4	65.3	47.5		
CERATIUM TRIPOS	DF	%	23.4	6.6	15.4	16.4		17.4	28.8	27.1		25.0
		CELLS/L	27.5	8.0	15.0	21.1		23.0	38.3	32.5		13.3
DICTYOCHA SPECULUM	CR	%									27.3	
		CELLS/L										9.7
DINOPHYSIS NORVEGICA	DF	%				5.5						15.0
		CELLS/L				7.0						8.0
DISTEPHANUS SPECULUM	CR	%	19.1	41.0	30.1	21.8	77.8	34.8	15.3	29.2		25.0
		CELLS/L	22.5	50.0	29.3	28.2	41.7	46.0	20.3	35.0		13.3
GYRODINIUM SPP.	DF	%									9.1	
		CELLS/L										3.3
MESODINIUM RUBRUM	DF	%	19.1		9.3	36.4	11.1	6.5			45.5	25.0
		CELLS/L	22.5		9.0	47.0	6.0	8.6			16.3	13.3
THECATE DINOFLAGELLATE SPP.	DF	%									9.1	
		CELLS/L										3.3

Columns are Species, Group and Units.

1 Swsursum.bqy

Abundance of Prevalent Species (>5% Total Count) in Surface Sample
Screened Phytoplankton, Survey WF982

			N04	N16	N18
AMYLAX TRIACANTHA	DF	%			
		CELLS/L			
ATHECATE DINOFLAGELLATE	DF	%			
		CELLS/L			
CERATIUM FUSUS	DF	%		8.3	
		CELLS/L		11.3	
CERATIUM LONGIPES	DF	%	32.4	30.0	30.7
		CELLS/L	71.5	40.5	93.0
CERATIUM TRIPOS	DF	%	32.4	36.7	28.0
		CELLS/L	71.5	49.5	84.9
DICTYOCHA SPECULUM	CR	%			
		CELLS/L			
DINOPHYSIS NORVEGICA	DF	%			
		CELLS/L			
DISTEPHANUS SPECULUM	CR	%	10.3	23.3	30.7
		CELLS/L	22.8	31.5	93.0
GYRODINIUM SPP.	DF	%			
		CELLS/L			
MESODINIUM RUBRUM	DF	%	16.2		5.3
		CELLS/L	35.8		16.2
THECATE DINOFLAGELLATE SPP.	DF	%			
		CELLS/L			

Columns are Species, Group and Units.
2 Swsursum.bqy

Abundance of Prevalent Species (>5% Total Count) in Surface Sample
Screened Phytoplankton, Survey WN983

			N04	N18
CERATIUM LONGIPES	DF	%	70.0	65.1
		CELLS/L	406.4	514.8
CERATIUM TRIPOS	DF	%	14.1	23.0
		CELLS/L	81.7	181.5
DISTEPHANUS SPECULUM	CR	%	10.7	
		CELLS/L	62.4	

Columns are Species, Group and Units.

1 Swsursum.bqy

Abundance of Prevalent Species (>5% Total Count) in Surface Sample
Screened Phytoplankton, Survey WF984

			F01	F02	F06	F13	F23	F24	F25
ATHECATE DINOFLAGELLATE	DF	%							
		CELLS/L							
CERATIUM FUSUS	DF	%							
		CELLS/L							
CERATIUM LONGIPES	DF	%	48.9	53.3	66.8	69.9	57.3	72.9	66.2
		CELLS/L	114.4	400.0	798.8	331.5	117.5	1287.1	215.0
CERATIUM SPP.	DF	%	20.0	15.3		5.9	7.3	7.6	10.0
		CELLS/L	46.8	115.0		28.1	15.0	134.6	32.5
CERATIUM TRIPOS	DF	%		6.0	20.3	9.7	7.3	9.3	6.5
		CELLS/L		45.0	242.5	45.9	15.0	164.2	21.3
DISTEPHANUS SPECULUM	CR	%	10.0						
		CELLS/L	23.4						
MESODINIUM RUBRUM	DF	%		5.3					
		CELLS/L		40.0					
PROTOPERIDINIUM PYRIFORME	DF	%							
		CELLS/L							

Columns are Species, Group and Units.

1 Swsursum.bqy

Abundance of Prevalent Species (>5% Total Count) in Surface Sample
Screened Phytoplankton, Survey WF984

			F27	F30	F31	N04	N16	N18
ATHECATE DINOFLLAGELLATE	DF	%		10.1	12.7			
		CELLS/L		10.0	75.0			
CERATIUM FUSUS	DF	%		7.6				
		CELLS/L		7.5				
CERATIUM LONGIPES	DF	%	64.3	49.4	66.8	69.7	77.3	65.0
		CELLS/L	481.3	48.8	395.0	1025.0	1106.0	1315.0
CERATIUM SPP.	DF	%		7.6	8.5	8.5		8.3
		CELLS/L		7.5	50.0	125.0		167.5
CERATIUM TRIPOS	DF	%	18.9	5.1	5.9	9.3	15.4	10.4
		CELLS/L	141.8	5.0	35.0	137.5	220.8	210.0
DISTEPHANUS SPECULUM	CR	%	5.6			5.8		12.2
		CELLS/L	42.0			85.0		247.5
MESODINIUM RUBRUM	DF	%						
		CELLS/L						
PROTOPERIDINIUM PYRIFORME	DF	%		5.1				
		CELLS/L		5.0				

Columns are Species, Group and Units.

2 Swsursum.bqy

Abundance of Prevalent Species (>5% Total Count) in Surface Sample
Screened Phytoplankton, Survey WN985

			N04	N18
CERATIUM FURCA	DF	%	5.7	12.2
		CELLS/L	132.0	280.6
CERATIUM LONGIPES	DF	%	55.3	41.0
		CELLS/L	1269.0	945.3
CERATIUM SPP.	DF	%	8.8	7.5
		CELLS/L	201.0	172.5
CERATIUM TRIPOS	DF	%	15.4	13.9
		CELLS/L	354.0	319.7
DINOPHYSIS NORVEGICA	DF	%	6.0	13.0
		CELLS/L	138.0	299.0
PROTOPERIDINIUM SPP.	DF	%		6.2
		CELLS/L		142.6

Columns are Species, Group and Units.

1 Swsursum.bqy

Abundance of Prevalent Species (>5% Total Count) in Surface Sample
Screened Phytoplankton, Survey WN986

			N04	N18
CERATIUM LINEATUM	DF	%	22.2	15.7
		CELLS/L	460.0	315.0
CERATIUM LONGIPES	DF	%	51.6	55.0
		CELLS/L	1070.0	1102.5
CERATIUM SPP.	DF	%	6.6	
		CELLS/L	137.5	
CERATIUM TRIPOS	DF	%	9.3	10.5
		CELLS/L	192.5	210.0
DINOPHYSIS NORVEGICA	DF	%		7.1
		CELLS/L		142.5

Columns are Species, Group and Units.
1 Swsursum.bqy

Abundance of Prevalent Species (>5% Total Count) in Surface Sample
Screened Phytoplankton, Survey WF987

			F01	F02	F06	F13	F23	F24	F25
CERATIUM FUSUS	DF	%	6.9	11.3	5.5	20.4	6.9		
		CELLS/L	72.0	35.7	64.4	124.8	816.8		
CERATIUM LINEATUM	DF	%	23.6		23.1	8.6	54.7	15.1	24.3
		CELLS/L	247.2		268.8	52.8	6451.5	694.4	1764.0
CERATIUM LONGIPES	DF	%		15.4	6.5	8.3		20.3	12.0
		CELLS/L		48.5	75.6	50.4		930.0	870.0
CERATIUM SPP.	DF	%			5.8				
		CELLS/L			67.2				
CERATIUM TRIPOS	DF	%	43.5	17.8	35.6	8.6	16.8	18.2	20.6
		CELLS/L	456.0	56.1	414.4	52.8	1981.7	837.0	1494.0
DINOPHYSIS NORVEGICA	DF	%	8.5		17.5	41.7		13.5	11.2
		CELLS/L	88.8		204.4	254.4		620.0	816.0
PROTOPERIDINIUM PALLIDUM	DF	%		8.5					
		CELLS/L		26.8					
PROTOPERIDINIUM TROCHOIDIUM	DF	%		33.2			10.1	23.8	19.6
		CELLS/L		104.6			1188.0	1091.2	1422.0

Columns are Species, Group and Units.

1 Swsursum.bqy

Abundance of Prevalent Species (>5% Total Count) in Surface Sample
Screened Phytoplankton, Survey WF987

			F27	F30	F31	N04	N16	N18
CERATIUM FUSUS	DF	%	12.8			13.7	5.2	11.8
		CELLS/L	187.2			1881.6	57.5	270.4
CERATIUM LINEATUM	DF	%		16.9	24.4	23.7	5.6	10.9
		CELLS/L		275.0	333.2	3255.0	62.5	249.6
CERATIUM LONGIPES	DF	%	8.9	5.8	7.2	17.4	28.2	19.5
		CELLS/L	130.0	95.0	98.0	2398.2	315.0	447.2
CERATIUM SPP.	DF	%						
		CELLS/L						
CERATIUM TRIPOS	DF	%	25.3	10.4	7.0	22.4	34.3	26.7
		CELLS/L	369.2	170.0	95.2	3078.6	382.5	611.0
DINOPHYSIS NORVEGICA	DF	%	30.2	36.2	40.9	17.3	9.0	26.0
		CELLS/L	442.0	590.0	560.0	2377.2	100.0	595.4
PROTOPERIDINIUM PALLIDUM	DF	%						
		CELLS/L						
PROTOPERIDINIUM TROCHOIDIUM	DF	%	14.9	13.8			10.1	
		CELLS/L	218.4	225.0			112.5	

Columns are Species, Group and Units.
2 Swsursum.bqy

Abundance of Prevalent Species (>5% Total Count) in Surface Sample
Screened Phytoplankton, Survey WN988

			N04	N18
CERATIUM FUSUS	DF	%	26.6	33.6
		CELLS/L	301.3	582.4
CERATIUM LINEATUM	DF	%	11.5	5.7
		CELLS/L	130.0	98.8
CERATIUM TRIPOS	DF	%	37.5	39.3
		CELLS/L	425.0	681.2
PROTOPERIDINIUM TROCHOIDIUM	DF	%	11.9	9.0
		CELLS/L	135.0	156.0

Columns are Species, Group and Units.

1 Swsursum.bqy

Abundance of Prevalent Species (>5% Total Count) in Surface Sample
Screened Phytoplankton, Survey WN989

			N04	N18
CERATIUM FUSUS	DF	%	44.3	33.9
		CELLS/L	755.0	623.7
CERATIUM LINEATUM	DF	%	6.8	6.9
		CELLS/L	115.0	127.6
CERATIUM TRIPOS	DF	%	17.0	18.9
		CELLS/L	290.0	346.5
PROTOPERIDINIUM SP. GROUP 2 31-75W 41-80L	DF	%	6.6	13.1
		CELLS/L	112.5	241.0
PROTOPERIDINIUM TROCHOIDIUM	DF	%	15.9	16.8
		CELLS/L	270.0	308.7

Columns are Species, Group and Units.

Abundance of Prevalent Species (>5% Total Count) in Chlorophyll a Maximum Sample
Screened Phytoplankton, Survey WF981

			F01	F02	F06	F13	F23	F24	F25
ATHECATE DINOFLLAGELLATE	DF	%			8.2				
		CELLS/L			12.5				
CERATIUM FUSUS	DF	%		7.5					11.1
		CELLS/L		10.0					4.3
CERATIUM LONGIPES	DF	%							
		CELLS/L							
CERATIUM SPP.	DF	%							
		CELLS/L							
CERATIUM TRIPOS	DF	%			8.2				
		CELLS/L			12.5				
DICTYOCOA FIBULA	CR	%					10.8		11.1
		CELLS/L					9.3		4.3
DINOPHYSIS ACUMINATA	DF	%				5.9			
		CELLS/L				9.0			
DSTEPHANUS SPECULUM	CR	%	96.6	77.4	69.4	76.5	86.3	85.7	44.4
		CELLS/L	440.8	102.5	106.3	117.0	74.0	63.0	17.0
MESODINIUM RUBRUM	DF	%						7.1	11.1
		CELLS/L						5.3	4.3
PROROCENTRUM MICANS	DF	%							22.2
		CELLS/L							8.5
PROTOPERIDINIUM SPP.	DF	%				5.9			
		CELLS/L				9.0			

Columns are Species, Group, and Units.

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Abundance of Prevalent Species (>5% Total Count) in Chlorophyll a Maximum Sample
Screened Phytoplankton, Survey WF981

			F27	F30	F31	N04	N16	N18
ATHECATE DINOFLAGELLATE	DF	%						
		CELLS/L						
CERATIUM FUSUS	DF	%						
		CELLS/L						
CERATIUM LONGIPES	DF	%	12.5			12.1		7.9
		CELLS/L	12.8			15.5		10.1
CERATIUM SPP.	DF	%					8.9	
		CELLS/L					15.5	
CERATIUM TRIPOS	DF	%	8.3		9.1	6.1	13.3	7.9
		CELLS/L	8.5		3.9	7.8	23.3	10.1
DICTYOCHA FIBULA	CR	%		9.1				
		CELLS/L		2.5				
DINOPHYSIS ACUMINATA	DF	%		9.1				
		CELLS/L		2.5				
DISTEPHANUS SPECULUM	CR	%	70.8	81.8	90.9	51.5	73.3	71.1
		CELLS/L	72.3	22.5	38.8	65.9	127.9	91.1
MESODINIUM RUBRUM	DF	%				18.2		
		CELLS/L				23.3		
PROROCENTRUM MICANS	DF	%						
		CELLS/L						
PROTOPERIDINIUM SPP.	DF	%						
		CELLS/L						

Columns are Species, Group, and Units.
2 Swmaxsum.bqy

Abundance of Prevalent Species (>5% Total Count) in Chlorophyll a Maximum Sample
Screened Phytoplankton, Survey WF982

			F01	F02	F06	F13	F23	F24	F25
ATHECATE DINOFLAGELLATE	DF	%					11.1		8.0
		CELLS/L					3.4		5.0
CERATIUM FUSUS	DF	%	7.5		6.8			6.3	8.0
		CELLS/L	7.5		6.8			10.0	5.0
CERATIUM LINEATUM	DF	%							
		CELLS/L							
CERATIUM LONGIPES	DF	%	37.5		31.8	16.0	11.1	25.0	28.0
		CELLS/L	37.5		31.5	18.8	3.4	40.0	17.5
CERATIUM SPP.	DF	%							12.0
		CELLS/L							7.5
CERATIUM TRIPOS	DF	%	22.5	6.4	22.7	10.0		26.6	24.0
		CELLS/L	22.5	7.5	22.5	11.8		42.5	15.0
DICTYOCHA FIBULA	CR	%							8.0
		CELLS/L							5.0
DICTYOCHA SPECULUM	CR	%					33.3		
		CELLS/L					10.3		
DISTEPHANUS SPECULUM	CR	%	17.5	83.0	20.5	32.0		35.9	8.0
		CELLS/L	17.5	97.5	20.3	37.6		57.5	5.0
GYRODINIUM SPP.	DF	%							
		CELLS/L							
MESODINIUM RUBRUM	DF	%				18.0	44.4		
		CELLS/L				21.1	13.7		
PROTOPERIDINIUM DEPRESSUM	DF	%							
		CELLS/L							

Columns are Species, Group, and Units.

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Abundance of Prevalent Species (>5% Total Count) in Chlorophyll a Maximum Sample
Screened Phytoplankton, Survey WF982

			F27	F30	F31	N04	N16	N18
ATHECATE DINOFLLAGELLATE	DF	%				5.3		
		CELLS/L				10.9		
CERATIUM FUSUS	DF	%		8.7	6.3	7.0	6.5	
		CELLS/L		5.8	2.4	14.5	6.0	
CERATIUM LINEATUM	DF	%	6.8		6.3			
		CELLS/L	10.0		2.4			
CERATIUM LONGIPES	DF	%	37.3	13.0	18.8	26.3	29.0	56.7
		CELLS/L	55.0	8.6	7.0	54.4	27.0	95.0
CERATIUM SPP.	DF	%						
		CELLS/L						
CERATIUM TRIPOS	DF	%	40.7	13.0	25.0	29.8	32.3	28.4
		CELLS/L	60.0	8.6	9.4	61.6	30.0	47.5
DICTYOCHA FIBULA	CR	%						
		CELLS/L						
DICTYOCHA SPECULUM	CR	%				21.1		
		CELLS/L				43.5		
DISTEPHANUS SPECULUM	CR	%	13.6	30.4	6.3		12.9	
		CELLS/L	20.0	20.1	2.4		12.0	
GYRODINIUM SPP.	DF	%			6.3			
		CELLS/L			2.4			
MESODINIUM RUBRUM	DF	%		8.7	31.3			
		CELLS/L		5.8	11.8			
PROTOPERIDINIUM DEPRESSUM	DF	%		8.7				
		CELLS/L		5.8				

Columns are Species, Group, and Units.

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Abundance of Prevalent Species (>5% Total Count) in Chlorophyll a Maximum Sample
Screened Phytoplankton, Survey WN983

			N04	N18
CERATIUM LONGIPES	DF	%	72.0	73.1
		CELLS/L	504.4	506.3
CERATIUM TRIPOS	DF	%	17.4	18.1
		CELLS/L	122.2	125.0

Columns are Species, Group, and Units.

1 Swmaxsum.bqy

Abundance of Prevalent Species (>5% Total Count) in Chlorophyll a Maximum Sample
Screened Phytoplankton, Survey WF984

			F01	F02	F06	F13	F23	F24	F25
ATHECATE DINOFLAGELLATE	DF	%							
		CELLS/L							
CERATIUM FUSUS	DF	%						5.1	
		CELLS/L						72.5	
CERATIUM LONGIPES	DF	%	46.7	53.6	62.0	66.5	67.1	72.8	66.7
		CELLS/L	68.6	290.0	640.9	308.6	145.0	1038.2	210.0
CERATIUM SPP.	DF	%	6.7	7.9		8.8		7.7	8.3
		CELLS/L	9.8	42.5		40.8		110.2	26.3
CERATIUM TRIPOS	DF	%	11.4	12.9	21.0	9.9	6.9		
		CELLS/L	16.8	70.0	217.5	45.9	15.0		
DINOPHYSIS NORVEGICA	DF	%	5.7						
		CELLS/L	8.4						
DISTEPHANUS SPECULUM	CR	%			8.4		5.8		9.5
		CELLS/L			87.0		12.5		30.0
GYRODINIUM SP. GROUP 3 41-70UM W 51-70UM L	DF	%	5.7						
		CELLS/L	8.4						
MESODINIUM RUBRUM	DF	%							
		CELLS/L							
PROTOPERIDINIUM PYRIFORME	DF	%							
		CELLS/L							
PROTOPERIDINIUM SPP.	DF	%	9.5						
		CELLS/L	14.0						

Columns are Species, Groups, and Units.

1 Swmaxsum.bqy

Abundance of Prevalent Species (>5% Total Count) in Chlorophyll a Maximum Sample
Screened Phytoplankton, Survey WF984

			F27	F30	F31	N04	N16	N18
ATHECATE DINOFLAGELLATE	DF	%		23.0				
		CELLS/L		17.5				
CERATIUM FUSUS	DF	%						
		CELLS/L						
CERATIUM LONGIPES	DF	%	60.8	13.1	72.0	73.7	71.2	71.4
		CELLS/L	480.3	10.0	234.0	1647.5	1095.6	1135.0
CERATIUM SPP.	DF	%			8.0	7.4		7.8
		CELLS/L			26.0	165.0		123.8
CERATIUM TRIPOS	DF	%	21.5		8.0	8.8	11.4	11.1
		CELLS/L	170.0		26.0	197.5	174.9	176.3
DINOPHYSIS NORVEGICA	DF	%		13.1				
		CELLS/L		10.0				
DISTEPHANUS SPECULUM	CR	%						8.8
		CELLS/L						140.0
GYRODINIUM SP. GROUP 3 41-70UM W 51-70UM L	DF	%		11.5				
		CELLS/L		8.8				
MESODINIUM RUBRUM	DF	%		13.1				
		CELLS/L		10.0				
PROTOPERIDINIUM PYRIFORME	DF	%		6.6				
		CELLS/L		5.0				
PROTOPERIDINIUM SPP.	DF	%		9.8				
		CELLS/L		7.5				

Columns are Species, Groups, and Units.

2 Swmaxsum.bqy

Abundance of Prevalent Species (>5% Total Count) in Chlorophyll a Maximum Sample
Screened Phytoplankton, Survey WN985

			N04	N18
CERATIUM FURCA	DF	%		8.8
		CELLS/L		152.5
CERATIUM LONGIPES	DF	%	39.7	46.8
		CELLS/L	227.5	807.5
CERATIUM SPP.	DF	%		6.7
		CELLS/L		115.0
DINOPHYSIS ACUMINATA	DF	%		9.6
		CELLS/L		165.0
DINOPHYSIS NORVEGICA	DF	%	21.8	9.4
		CELLS/L	125.0	162.5
PROTOPERIDINIUM DEPRESSUM	DF	%	6.1	
		CELLS/L	35.0	
PROTOPERIDINIUM SPP.	DF	%	11.3	11.0
		CELLS/L	65.0	190.0

Columns are Species, Groups, and Units.

1 Swmaxsum.bqy

Abundance of Prevalent Species (>5% Total Count) in Chlorophyll a Maximum Sample
Screened Phytoplankton, Survey WN986

			N04	N18
CERATIUM FUSUS	DF	%		6.4
		CELLS/L		220.0
CERATIUM LINEATUM	DF	%	7.5	
		CELLS/L	15.0	
CERATIUM LONGIPES	DF	%	33.5	55.4
		CELLS/L	67.5	1915.0
CERATIUM SPP.	DF	%		5.1
		CELLS/L		175.0
CERATIUM TRIPOS	DF	%	13.7	6.8
		CELLS/L	27.5	235.0
DINOPHYSIS NORVEGICA	DF	%	12.4	17.5
		CELLS/L	25.0	605.0
DISTEPHANUS SPECULUM	CR	%	9.9	
		CELLS/L	20.0	
PROTOPERIDINIUM SPP.	DF	%	11.2	
		CELLS/L	22.5	

Columns are Species, Groups, and Units.

1 Swmaxsum.bqy

Abundance of Prevalent Species (>5% Total Count) in Chlorophyll a Maximum Sample
Screened Phytoplankton, Survey WF987

			F01	F02	F06	F13	F23	F24	F25
ATHECATE DINOFLAGELLATE	DF	%				6.0			
		CELLS/L				12.3			
CERATIUM FUSUS	DF	%	8.5	7.3			7.0	11.2	9.7
		CELLS/L	61.3	25.2			230.4	295.0	342.0
CERATIUM LINEATUM	DF	%	28.3	5.5	11.7	10.8	37.9		15.9
		CELLS/L	203.3	18.9	36.6	22.1	1241.6		564.0
CERATIUM LONGIPES	DF	%	7.5	42.2	42.7	19.2	5.1	28.4	18.5
		CELLS/L	53.9	144.9	134.2	39.2	166.4	750.0	654.0
CERATIUM SPP.	DF	%			7.8	8.4			
		CELLS/L			24.4	17.2			
CERATIUM TRIPOS	DF	%	42.7	11.0	14.6	20.4	10.9	20.9	20.5
		CELLS/L	306.3	37.8	45.8	41.6	358.4	550.0	726.0
DINOPHYSIS NORVEGICA	DF	%		15.6		24.0	9.0	24.6	18.0
		CELLS/L		53.6		49.0	294.4	650.0	636.0
DISTEPHANUS SPECULUM	CR	%		7.3					
		CELLS/L		25.2					
PROTOPERIDINIUM SPP.	DF	%			8.7				
		CELLS/L			27.4				
PROTOPERIDINIUM TROCHOIDIUM	DF	%					19.9	7.6	10.0
		CELLS/L					652.8	200.0	354.0

Columns are Species, Groups, and Units.

1 Swmaxsum.bqy

Abundance of Prevalent Species (>5% Total Count) in Chlorophyll a Maximum Sample
Screened Phytoplankton, Survey WF987

			F27	F30	F31	N04	N16	N18
ATHECATE DINOFLAGELLATE	DF	%						
		CELLS/L						
CERATIUM FUSUS	DF	%		7.7	6.5		8.1	
		CELLS/L		69.6	42.5		289.8	
CERATIUM LINEATUM	DF	%	6.1	5.8	16.2		20.0	
		CELLS/L	118.8	52.2	105.0		714.0	
CERATIUM LONGIPES	DF	%	23.0	18.0	11.5	48.5	17.9	33.3
		CELLS/L	448.2	162.4	75.0	1644.3	640.5	456.5
CERATIUM SPP.	DF	%		11.6				
		CELLS/L		104.4				
CERATIUM TRIPOS	DF	%	14.8	30.2	5.4	15.2	20.5	32.9
		CELLS/L	288.9	272.6	35.0	516.2	732.9	451.0
DINOPHYSIS NORVEGICA	DF	%	39.1	23.1	39.2	21.6	24.8	15.8
		CELLS/L	761.4	208.8	255.0	730.8	884.1	217.3
DSTEPHANUS SPECULUM	CR	%						
		CELLS/L						
PROTOPERIDINIUM SPP.	DF	%						
		CELLS/L						
PROTOPERIDINIUM TROCHOIDIUM	DF	%	7.3					
		CELLS/L	143.1					

Columns are Species, Groups, and Units.

2 Swmaxsum.bqy

Abundance of Prevalent Species (>5% Total Count) in Chlorophyll a Maximum Sample
Screened Phytoplankton, Survey WN988

			N04	N18
CERATIUM FUSUS	DF	%	16.3	24.9
		CELLS/L	772.2	1284.4
CERATIUM TRIPOS	DF	%	58.8	34.0
		CELLS/L	2786.4	1755.6
DINOPHYSIS NORVEGICA	DF	%	13.2	33.1
		CELLS/L	626.4	1710.0

Columns are Species, Groups, and Units.

1 Swmaxsum.bqy

Abundance of Prevalent Species (>5% Total Count) in Chlorophyll a Maximum Sample
Screened Phytoplankton, Survey WN989

			N04	N18
CERATIUM FUSUS	DF	%	30.3	24.2
		CELLS/L	2054.8	748.2
CERATIUM LINEATUM	DF	%	7.8	
		CELLS/L	528.0	
CERATIUM TRIPOS	DF	%	37.7	31.2
		CELLS/L	2556.4	962.8
DINOPHYSIS NORVEGICA	DF	%	9.9	27.4
		CELLS/L	668.8	846.8

Columns are Species, Groups, and Units.
1 Swmaxsum.bqy

APPENDIX H

**ABUNDANCE OF PREVALENT SPECIES
IN ZOOPLANKTON TOW SAMPLES**

Abundance of Prevalent Species (>5% Total Count)
Zooplankton, Survey WF981

				F01	F02	F06	F13	F23
ACARTIA HUDSONICA	C	C	%					20
			ind/m3					234
	F	C	%					
			ind/m3					
CENTROPAGES SPP.	C	C	%	7				
			ind/m3	815				
CIRRIPEDIA SPP.	N	B	%					10
			ind/m3					117
COPEPOD SPP.	N	C	%	29	48	40	32	16
			ind/m3	3491	11585	5136	2148	193
GASTROPODA SPP.	V	OZ	%	6		9	7	
			ind/m3	698		1203	438	
OITHONA SIMILIS CLAUS	C	C	%	34	23	35	34	20
			ind/m3	4073	5489	4550	2281	234
	F	C	%	13	9	8	13	8
			ind/m3	1600	2263	1041	900	96
PSEUDOCALANUS NEWMANI	C	C	%		11			
			ind/m3		2640			

Columns are Species, Life Stage, Group, and Units
1 Zoosum.bqy

Abundance of Prevalent Species (>5% Total Count)
 Zooplankton, Survey WF981

				F24	F25	F27	F30	F31
ACARTIA HUDSONICA	C	C	%					6
			ind/m3					116
	F	C	%					
			ind/m3					
CENTROPAGES SPP.	C	C	%	5	5		9	7
			ind/m3	346	444		1506	146
CIRRIPEDIA SPP.	N	B	%		6			22
			ind/m3		486			456
COPEPOD SPP.	N	C	%	30	28	38		10
			ind/m3	1887	2366	3756		207
GASTROPODA SPP.	V	OZ	%		10	7	36	
			ind/m3		803	742	6118	
OITHONA SIMILIS CLAUS	C	C	%	35	28	34	16	28
			ind/m3	2215	2323	3418	2729	566
	F	C	%	15	12	11	25	12
			ind/m3	930	993	1048	4329	243
PSEUDOCALANUS NEWMANI	C	C	%		6			
			ind/m3		486			

Columns are Species, Life Stage, Group, and Units
 2 Zoosum.bqy

Abundance of Prevalent Species (>5% Total Count)
Zooplankton, Survey WF981

				F32	F33	N04	N16	N18
ACARTIA HUDSONICA	C	C	%					27
			ind/m3					827
	F	C	%					15
			ind/m3					447
CENTROPAGES SPP.	C	C	%					
			ind/m3					
CIRRIPEDIA SPP.	N	B	%					
			ind/m3					
COPEPOD SPP.	N	C	%	29	64	30	32	40
			ind/m3	16331	18259	3888	3116	1208
GASTROPODA SPP.	V	OZ	%			19		
			ind/m3			2481		
OITHONA SIMILIS CLAUS	C	C	%	9	19	33	47	
			ind/m3	4929	5414	4215	4526	
	F	C	%	5		9	10	
			ind/m3	3016		1151	947	
PSEUDOCALANUS NEWMANI	C	C	%	39	7		5	
			ind/m3	21701	2110		505	

Columns are Species, Life Stage, Group, and Units
3 Zoosum.bqy

Abundance of Prevalent Species (>5% Total Count)
Zooplankton, Survey WF982

				F01	F02	F06	F13	F23
ACARTIA HUDSONICA	C	C	%					
			ind/m3					
CIRRIPEDIA SPP.	N	B	%	11	8		5	25
			ind/m3	1698	2052		1853	1920
COPEPOD SPP.	N	C	%	34	39	20	38	24
			ind/m3	5066	9553	11208	13312	1784
GASTROPODA SPP.	V	OZ	%	13	9	51	14	
			ind/m3	2006	2127	29251	5022	
HARPACTICOIDA SPP.	null	C	%					25
			ind/m3					1920
OITHONA SIMILIS CLAUS	C	C	%	26	22	19	29	6
			ind/m3	3825	5262	10953	10264	463
	F	C	%	6	8		7	
			ind/m3	877	2015		2633	
POLYCHAETE SPP.	L	OZ	%					
			ind/m3					
	T	OZ	%					
			ind/m3					
PSEUDOCALANUS NEWMANI	C	C	%					5
			ind/m3					409

Columns are Species, Life Stage, Group, and Units
1 Zoosum.bqy

Abundance of Prevalent Species (>5% Total Count)
Zooplankton, Survey WF982

				F24	F25	F27	F30	F31
ACARTIA HUDSONICA	C	C	%				7	
			ind/m3				551	
CIRRIPEDIA SPP.	N	B	%	11	16	6	35	16
			ind/m3	733	2372	1819	2862	788
COPEPOD SPP.	N	C	%	58	41	39	26	25
			ind/m3	3767	6227	11241	2080	1175
GASTROPODA SPP.	V	OZ	%			17		
			ind/m3			4786		
HARPACTICOIDA SPP.	null	C	%					27
			ind/m3					1314
OITHONA SIMILIS CLAUS	C	C	%	17	24	22		14
			ind/m3	1089	3707	6389		665
	F	C	%			7		5
			ind/m3			1993		247
POLYCHAETE SPP.	L	OZ	%				8	
			ind/m3				640	
	T	OZ	%				10	
			ind/m3				836	
PSEUDOCALANUS NEWMANI	C	C	%					
			ind/m3					

Columns are Species, Life Stage, Group, and Units
2 Zoosum.bqy

Abundance of Prevalent Species (>5% Total Count)
Zooplankton, Survey WF982

				F32	F33	N04	N16	N18
ACARTIA HUDSONICA	C	C	%					
			ind/m3					
CIRRIPEDIA SPP.	N	B	%	8				
			ind/m3	2089				
COPEPOD SPP.	N	C	%	24	58	31	34	74
			ind/m3	6452	17026	10263	9659	6872
GASTROPODA SPP.	V	OZ	%	16		34	20	5
			ind/m3	4405		11356	5693	472
HARPACTICOIDA SPP.	null	C	%					
			ind/m3					
OITHONA SIMILIS CLAUS	C	C	%	27	11	21	28	14
			ind/m3	7362	3114	7024	7931	1246
	F	C	%	7	8			
			ind/m3	2006	2386			
POLYCHAETE SPP.	L	OZ	%					
			ind/m3					
	T	OZ	%					
			ind/m3					
PSEUDOCALANUS NEWMANI	C	C	%		6		6	
			ind/m3		1779		1649	

Columns are Species, Life Stage, Group, and Units
3 Zoosum.bqy

Abundance of Prevalent Species (>5% Total Count)
Zooplankton, Survey WN983

				N04	N18
CALANUS FINMARCHICUS	C	C	%		5
			ind/m3		1626
COPEPOD SPP.	N	C	%	37	50
			ind/m3	10606	15177
GASTROPODA SPP.	V	OZ	%	13	
			ind/m3	3836	
OITHONA SIMILIS CLAUS	C	C	%	30	34
			ind/m3	8600	10465
	F	C	%	7	5
			ind/m3	1881	1626

Columns are Species, Life Stage, Group, and Units
1 Zoosum.bqy

Abundance of Prevalent Species (>5% Total Count)
Zooplankton, Survey WF984

				F01	F02	F06	F13	F23
CALANUS FINMARCHICUS	C	C	%			5		
			ind/m3			1709		
CIRRIPEDIA SPP.	N	B	%	14			54	38
			ind/m3	1844			18748	580
COPEPOD SPP.	N	C	%	19	15	22	11	16
			ind/m3	2592	1930	7547	3755	252
GASTROPODA SPP.	V	OZ	%	10	29	26	7	
			ind/m3	1336	3819	8797	2439	
HARPACTICOIDA SPP.	C	C	%					5
			ind/m3					79
OIKOPLEURA DIOICA	null	OZ	%		6			
			ind/m3		839			
OITHONA SIMILIS CLAUS	C	C	%	29	28	22	13	20
			ind/m3	3875	3777	7630	4577	313
	F	C	%	7	7	5		5
			ind/m3	935	965	1793		79
POLYCHAETE SPP.	L	OZ	%					
			ind/m3					
PSEUDOCALANUS NEWMANI	C	C	%	7		8		
			ind/m3	962		2627		

Columns are Species, Life Stage, Group, and Units
1 Zoosum.bqy

Abundance of Prevalent Species (>5% Total Count)
Zooplankton, Survey WF984

				F24	F25	F27	F30	F31
CALANUS FINMARCHICUS	C	C	%			5		
			ind/m3			1449		
CIRRIPEDIA SPP.	N	B	%		13		21	24
			ind/m3		2150		2451	8236
COPEPOD SPP.	N	C	%	25	19	27	37	15
			ind/m3	17683	3098	7366	4308	5060
GASTROPODA SPP.	V	OZ	%	20	25	11		13
			ind/m3	13984	4096	3019		4614
HARPACTICOIDA SPP.	C	C	%					
			ind/m3					
OIKOPLEURA DIOICA	null	OZ	%					
			ind/m3					
OITHONA SIMILIS CLAUS	C	C	%	28	20	39		27
			ind/m3	19977	3328	10626		9129
	F	C	%	7	6			9
			ind/m3	5253	1024			2977
POLYCHAETE SPP.	L	OZ	%				19	
			ind/m3				2267	
PSEUDOCALANUS NEWMANI	C	C	%			6		
			ind/m3			1509		

Columns are Species, Life Stage, Group, and Units
2 Zoosum.bqy

Abundance of Prevalent Species (>5% Total Count)
Zooplankton, Survey WF984

				F32	F33	N04	N16	N18
CALANUS FINMARCHICUS	C	C	%	7	11			5
			ind/m3	1953	2233			2448
CIRRIPEDIA SPP.	N	B	%		6			
			ind/m3		1240			
COPEPOD SPP.	N	C	%	28	31	38	27	36
			ind/m3	7970	6152	21180	11214	16829
GASTROPODA SPP.	V	OZ	%	9	14	18	20	15
			ind/m3	2586	2828	10257	8310	7139
HARPACTICOIDA SPP.	C	C	%					
			ind/m3					
OIKOPLEURA DIOICA	null	OZ	%					
			ind/m3					
OITHONA SIMILIS CLAUS	C	C	%	35	23	23	25	26
			ind/m3	9818	4515	12842	10365	12239
	F	C	%	6	6	7		
			ind/m3	1742	1290	4086		
POLYCHAETE SPP.	L	OZ	%					
			ind/m3					
PSEUDOCALANUS NEWMANI	C	C	%				9	
			ind/m3				3887	

Columns are Species, Life Stage, Group, and Units
3 Zoosum.bqy

Abundance of Prevalent Species (>5% Total Count)
Zooplankton, Survey WN985

				N04	N18
COPEPOD SPP.	N	C	%	20	34
			ind/m3	2018	10862
GASTROPODA SPP.	V	OZ	%	13	8
			ind/m3	1325	2523
OIKOPLEURA DIOICA	null	OZ	%	9	8
			ind/m3	904	2615
OITHONA SIMILIS CLAUS	C	C	%	25	20
			ind/m3	2470	6308
	F	C	%	9	8
			ind/m3	873	2431
PSEUDOCALANUS NEWMANI	C	C	%	6	10
			ind/m3	602	3169

Columns are Species, Life Stage, Group, and Units
1 Zoosum.bqy

Abundance of Prevalent Species (>5% Total Count)
 Zooplankton, Survey WN986

				N04	N18
BIVALVIA SPP.	V	OZ	%	14	8
			ind/m3	7488	5668
COPEPOD SPP.	N	C	%	53	52
			ind/m3	27574	37715
GASTROPODA SPP.	V	OZ	%	7	
			ind/m3	3541	
OITHONA SIMILIS CLAUS	C	C	%	8	10
			ind/m3	4354	7150
PSEUDOCALANUS NEWMANI	C	C	%	6	10
			ind/m3	3135	7261

Columns are Species, Life Stage, Group, and Units
 1 Zoosum.bqy

Abundance of Prevalent Species (>5% Total Count)
Zooplankton, Survey WF987

				F01	F02	F06	F13	F23
ACARTIA HUDSONICA	C	C	%					
			ind/m3					
	F	C	%					
			ind/m3					
BIVALVIA SPP.	V	OZ	%	33	11	24	49	16
			ind/m3	5256	1835	3556	7215	45082
COPEPOD SPP.	N	C	%	16	45	8	19	30
			ind/m3	2531	7206	1113	2731	87265
EVADNE NORDMANNI	null	OZ	%					14
			ind/m3					41218
GASTROPODA SPP.	V	OZ	%					
			ind/m3					
MICROSETELLA NORVEGICA	null	C	%			11		
			ind/m3			1670		
OIKOPLEURA DIOICA	null	OZ	%	8				
			ind/m3	1314				
OITHONA SIMILIS CLAUS	C	C	%	8	20	9		
			ind/m3	1314	3200	1329		
	F	C	%					
			ind/m3					
POLYCHAETE SPP.	L	OZ	%					16
			ind/m3					45082

Columns are Species, Life Stage, Group, and Units

Abundance of Prevalent Species (>5% Total Count)
Zooplankton, Survey WF987

				F01	F02	F06	F13	F23
PSEUDOCALANUS NEWMANI	C	C	%	15	9	12		
			ind/m3	2385	1432	1793		
TEMORA LONGICORNIS	C	C	%	6		21	9	
			ind/m3	876		2999	1386	

Columns are Species, Life Stage, Group, and Units

Abundance of Prevalent Species (>5% Total Count)
Zooplankton, Survey WF987

				F24	F25	F27	F30	F31
ACARTIA HUDSONICA	C	C	%				15	7
			ind/m3				9269	2723
	F	C	%				6	
			ind/m3				3641	
BIVALVIA SPP.	V	OZ	%	15		23	7	14
			ind/m3	6341		12561	4414	5447
COPEPOD SPP.	N	C	%	46	51	14	43	37
			ind/m3	19497	23437	7357	26372	13889
EVADNE NORDMANNI	null	OZ	%	8	12			
			ind/m3	3448	5408			
GASTROPODA SPP.	V	OZ	%			9		7
			ind/m3			4725		2669
MICROSETELLA NORVEGICA	null	C	%					
			ind/m3					
OIKOPLEURA DIOICA	null	OZ	%					
			ind/m3					
OITHONA SIMILIS CLAUS	C	C	%	7	6	18		
			ind/m3	2933	2764	9450		
	F	C	%					
			ind/m3					
POLYCHAETE SPP.	L	OZ	%				6	
			ind/m3				3641	

Columns are Species, Life Stage, Group, and Units

Abundance of Prevalent Species (>5% Total Count)
Zooplankton, Survey WF987

				F24	F25	F27	F30	F31
PSEUDOCALANUS NEWMANI	C	C	%	6		17		
			ind/m3	2615		9092		
TEMORA LONGICORNIS	C	C	%			7		8
			ind/m3			3589		2832

Columns are Species, Life Stage, Group, and Units

TABLE 15.
Abundance of Prevalent Species (>5% Total Count)
Zooplankton, Survey WF987

				N04	N16	N18
ACARTIA HUDSONICA	C	C	%			
			ind/m3			
	F	C	%			
			ind/m3			
BIVALVIA SPP.	V	OZ	%	11	11	11
			ind/m3	5701	2647	7675
COPEPOD SPP.	N	C	%	40	26	44
			ind/m3	21560	6158	30409
EVADNE NORDMANNI	null	OZ	%	10		
			ind/m3	5437		
GASTROPODA SPP.	V	OZ	%			
			ind/m3			
MICROSETELLA NORVEGICA	null	C	%			
			ind/m3			
OIKOPLEURA DIOICA	null	OZ	%			
			ind/m3			
OITHONA SIMILIS CLAUS	C	C	%	10	13	14
			ind/m3	5324	2952	9521
	F	C	%		5	
			ind/m3		1171	
POLYCHAETE SPP.	L	OZ	%			
			ind/m3			

Columns are Species, Life Stage, Group, and Units

Abundance of Prevalent Species (>5% Total Count)
 Zooplankton, Survey WF987

				N04	N16	N18
PSEUDOCALANUS NEWMANI	C	C	%		8	6
			ind/m3		1832	3886
TEMORA LONGICORNIS	C	C	%	6	11	7
			ind/m3	3172	2545	4955

Columns are Species, Life Stage, Group, and Units

Abundance of Prevalent Species (>5% Total Count)
 Zooplankton, Survey WN988

				N04	N18
BIVALVIA SPP.	V	OZ	%		13
			ind/m3		3832
COPEPOD SPP.	N	C	%	49	29
			ind/m3	15864	8356
MICROSETELLA NORVEGICA	null	C	%		6
			ind/m3		1597
OITHONA SIMILIS CLAUS	C	C	%	20	16
			ind/m3	6353	4577
	F	C	%	7	
			ind/m3	2105	
PSEUDOCALANUS NEWMANI	C	C	%	7	
			ind/m3	2218	

Columns are Species, Life Stage, Group, and Units

Abundance of Prevalent Species (>5% Total Count)
Zooplankton, Survey WN989

				N04	N18
BIVALVIA SPP.	V	OZ	%		10
			ind/m3		2775
COPEPOD SPP.	N	C	%	30	35
			ind/m3	13402	9323
OIKOPLEURA DIOICA	null	OZ	%	9	6
			ind/m3	3891	1665
OITHONA SIMILIS CLAUS	C	C	%	25	17
			ind/m3	10993	4550
	F	C	%	11	10
			ind/m3	4879	2664
PSEUDOCALANUS NEWMANI	C	C	%	11	
			ind/m3	4756	
TEMORA LONGICORNIS	C	C	%		5
			ind/m3		1443

Columns are Species, Life Stage, Group, and Units

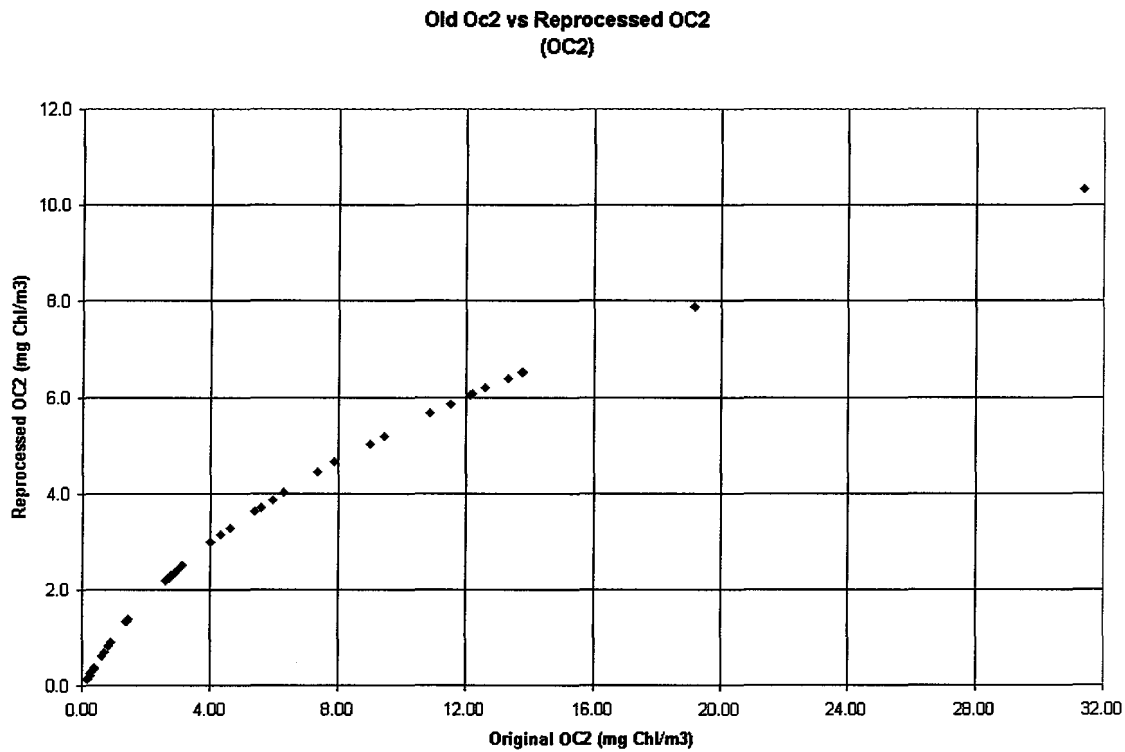
APPENDIX I

Satellite Images of Chlorophyll a Concentrations and Temperature

Satellite Image Chlorophyll Concentration Calibration Correction

During analysis of the enclosed satellite images, it was determined that the chlorophyll a concentrations reported on the satellite images were incorrect. Since this discovery NOAA supplied the figure below that shows the correlation of the actual chlorophyll a concentrations to the original chlorophyll a data reported on the enclosed images. The graph shows that values:

- $< \sim 2$ mg Chl/m³ are equivalent to the reported concentrations
- ~ 2 mg Chl/m³ to ~ 16 mg Chl/m³ are incorrect by a multiplier of ~ 2 (e.g., original values of 12.00 mg Chl/m³ are actually concentrations of 6.00 mg Chl/m³)
- ~ 16 mg Chl/m³ and greater are incorrect by a multiplier of ~ 3 (e.g., original values of 31.00 mg Chl/m³ are actually concentrations of 10.50 mg Chl/m³)



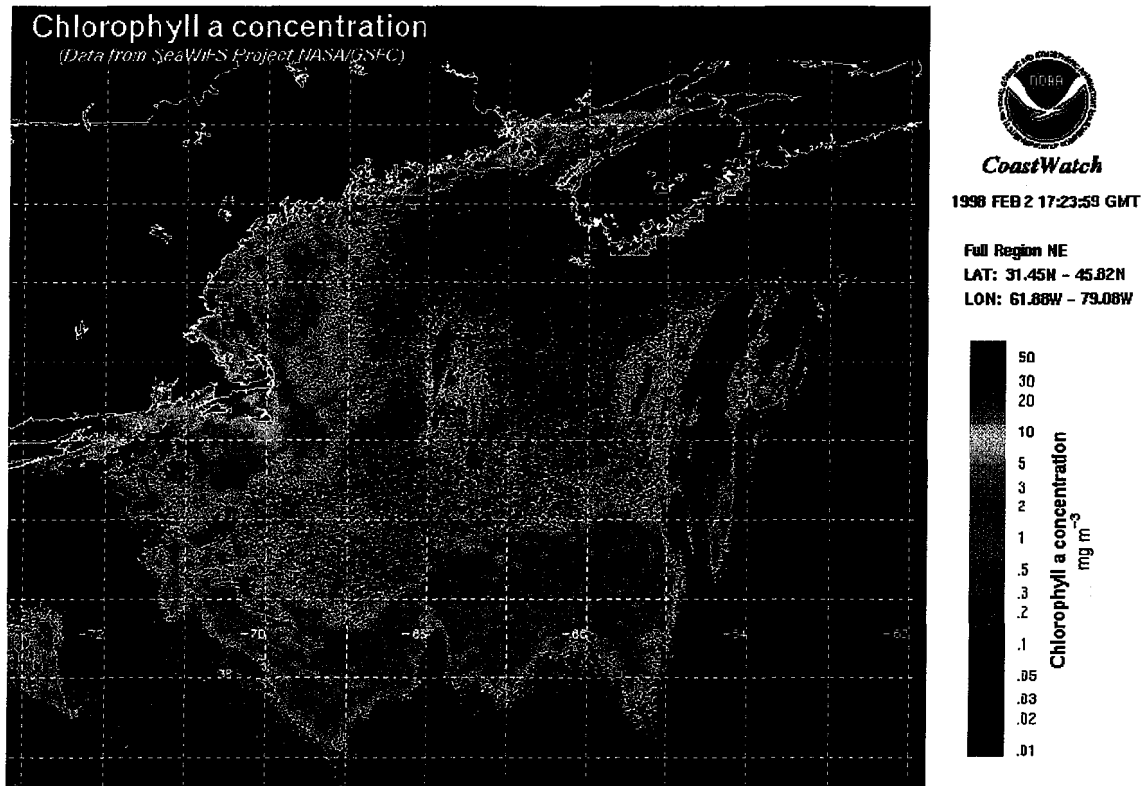


Figure I-1. Chlorophyll a Concentrations from February 2, 1998

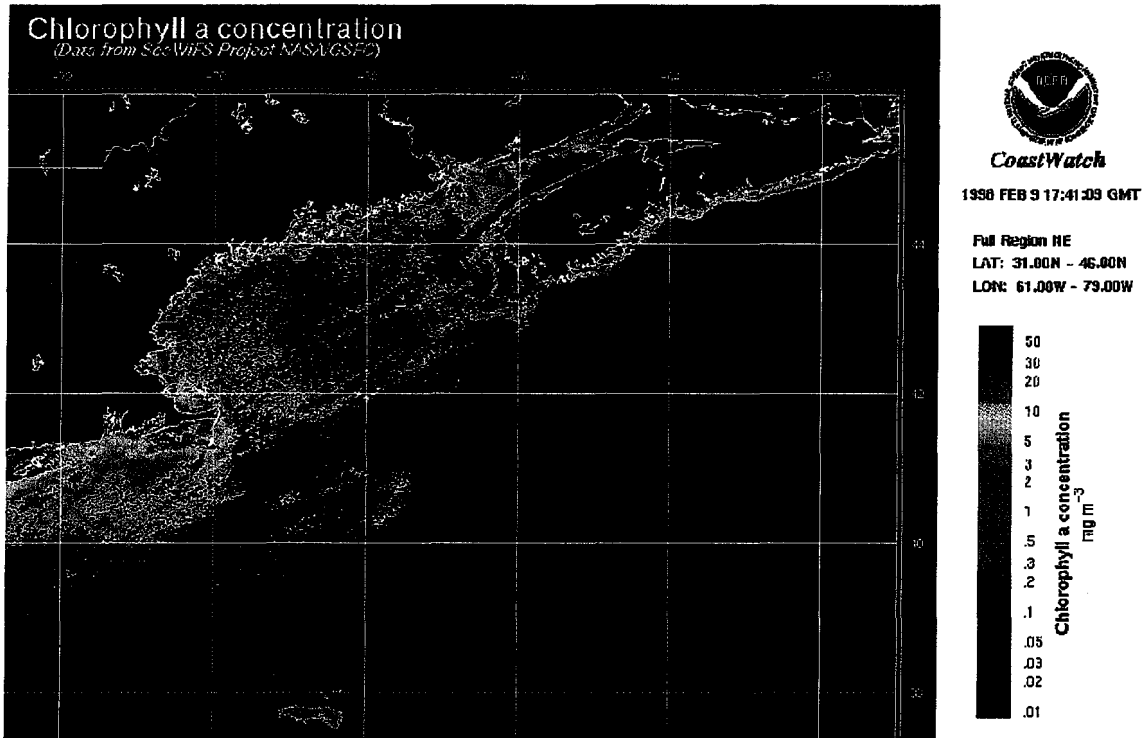


Figure I-2. Chlorophyll a Concentrations from February 9, 1998

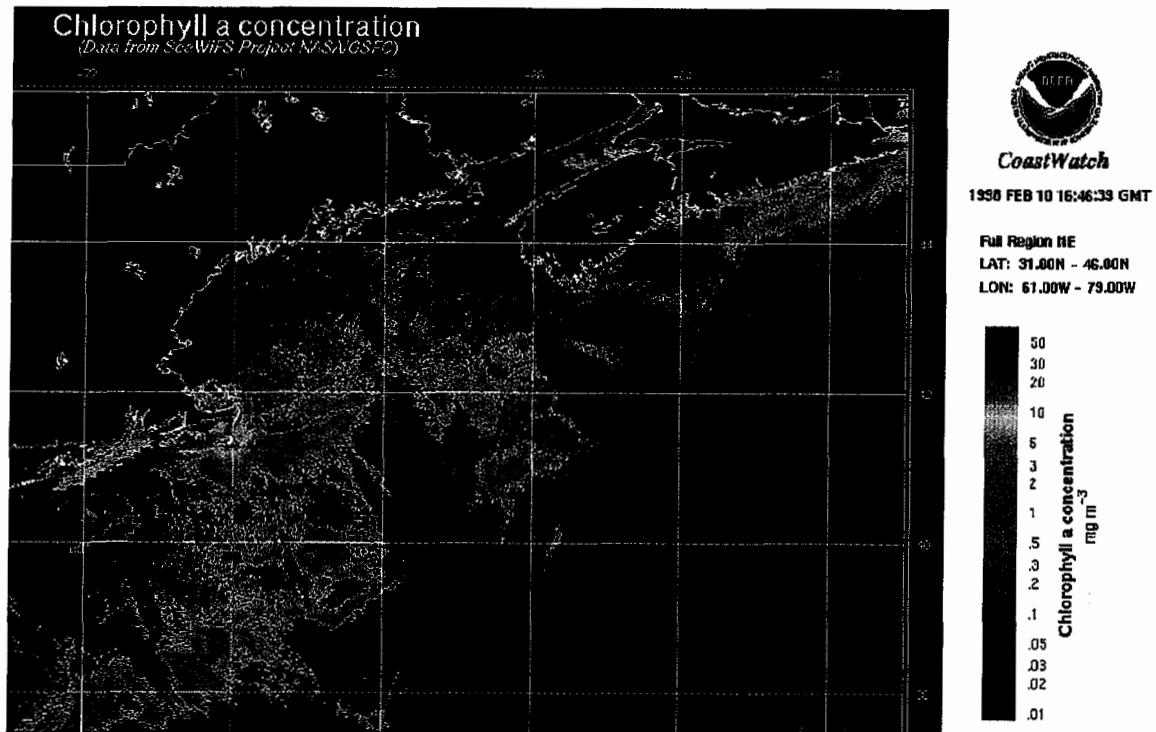


Figure I-3. Chlorophyll a Concentrations from February 10, 1998

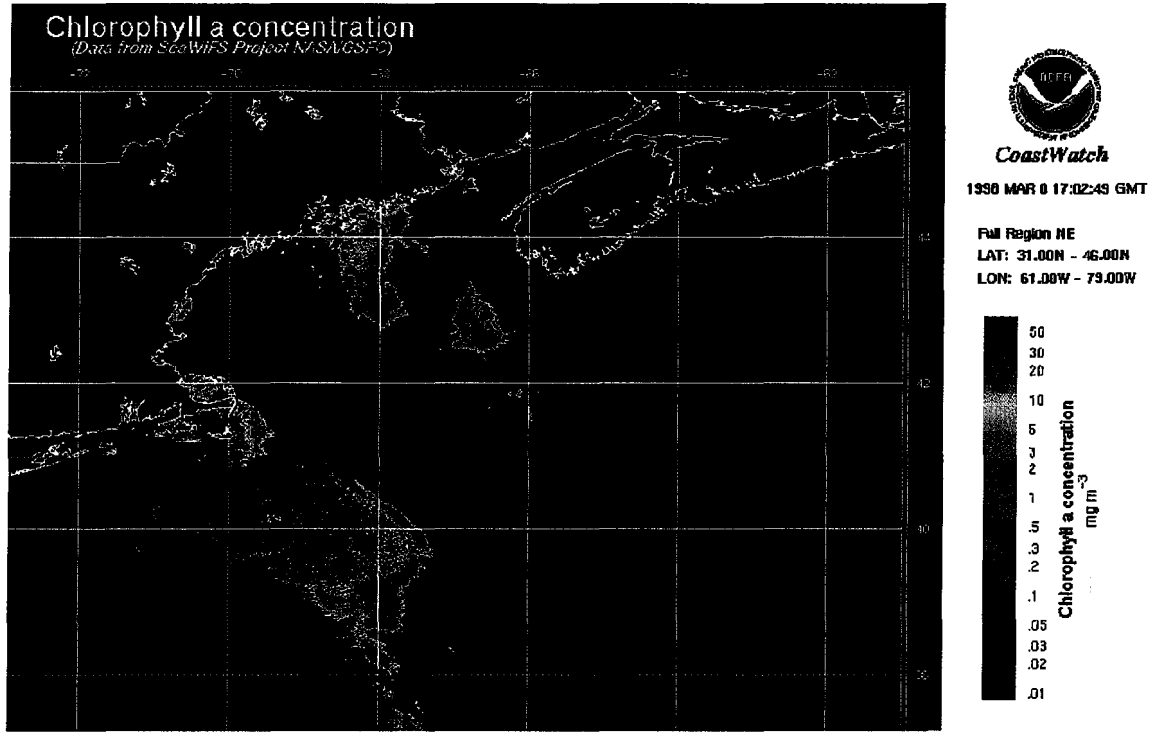


Figure I-4. Chlorophyll a Concentration from March 0, 1998

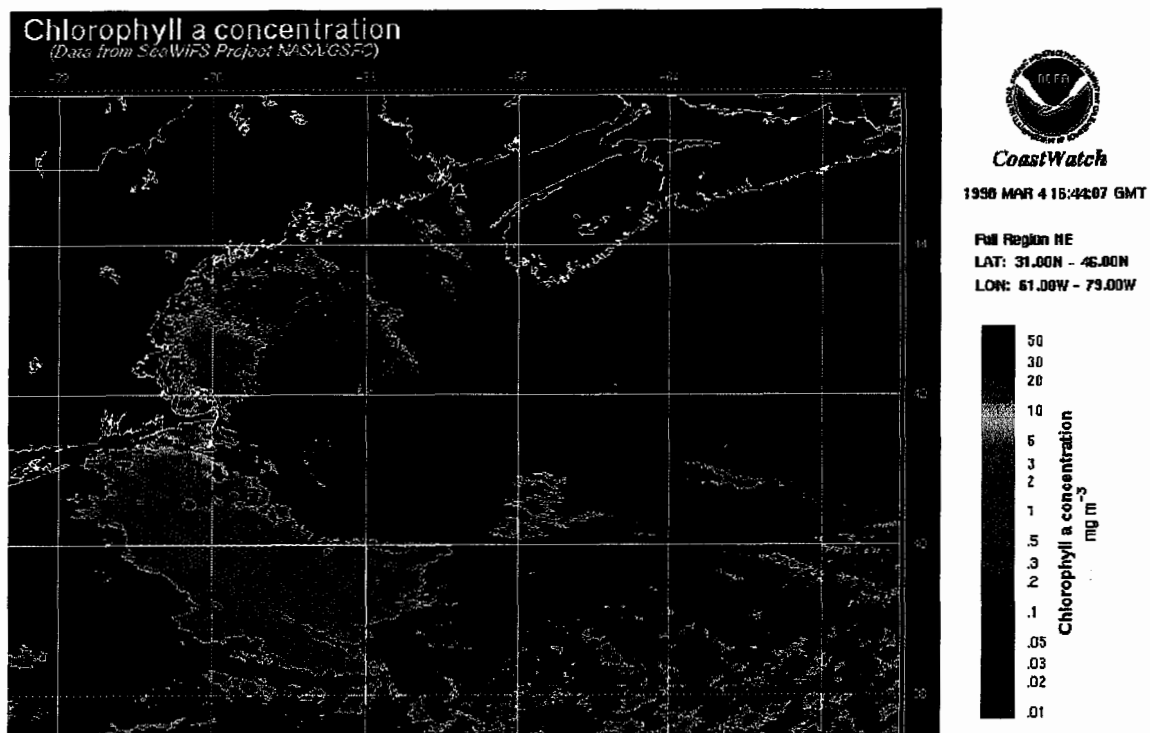


Figure I-5. Chlorophyll a Concentrations from March 4, 1998

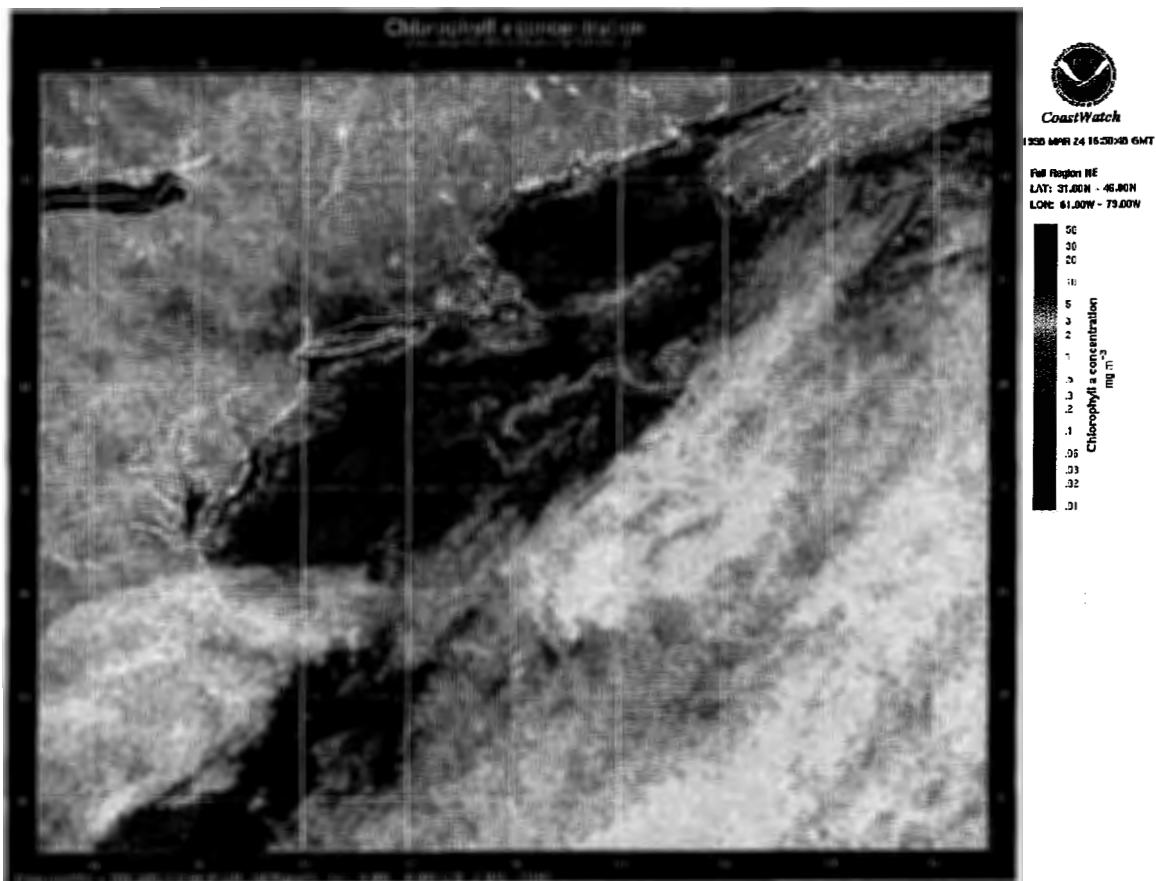


Figure I-6. Chlorophyll a Concentration from March 24, 1998

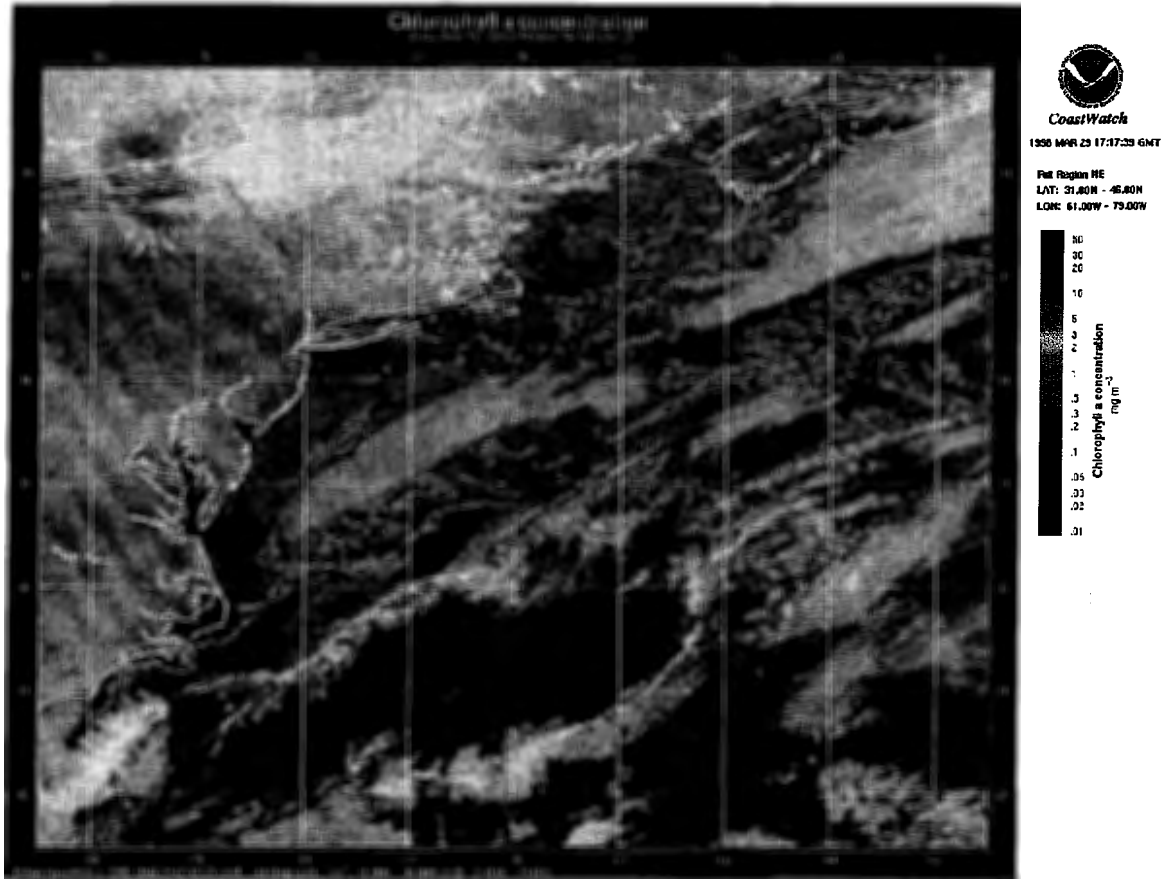


Figure I-7. Chlorophyll a Concentration from March 29, 1998

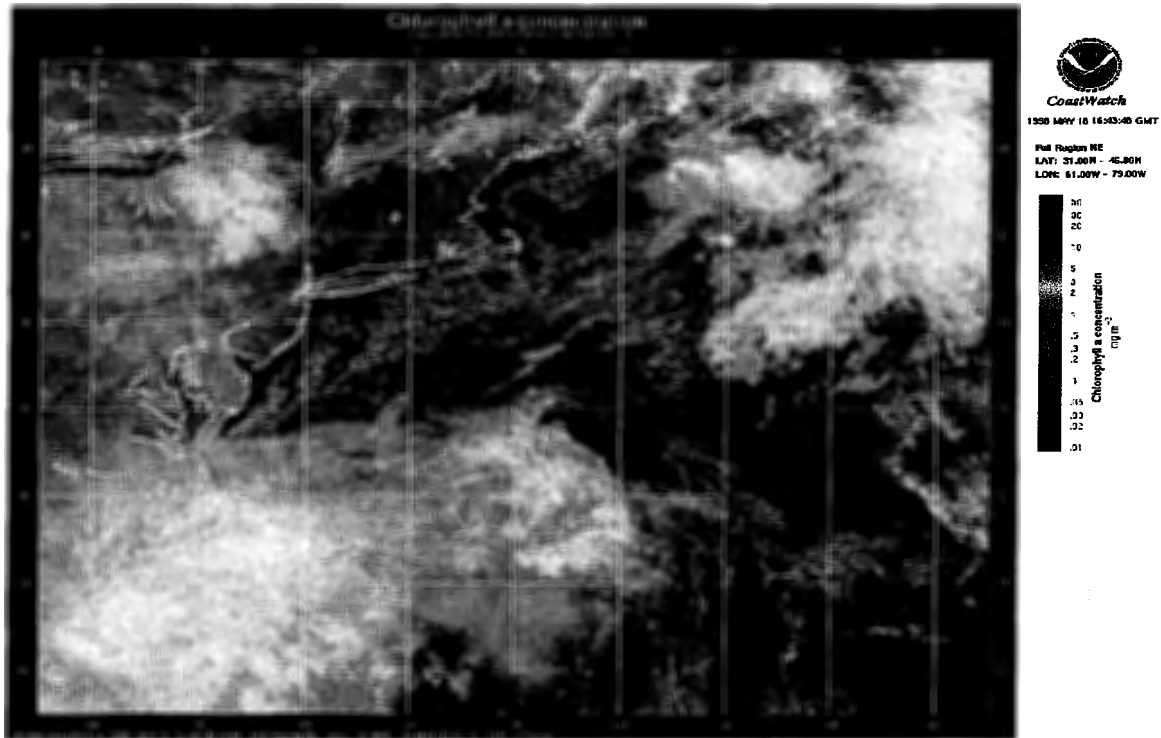


Figure I-8. Chlorophyll a Concentration from May 18, 1998

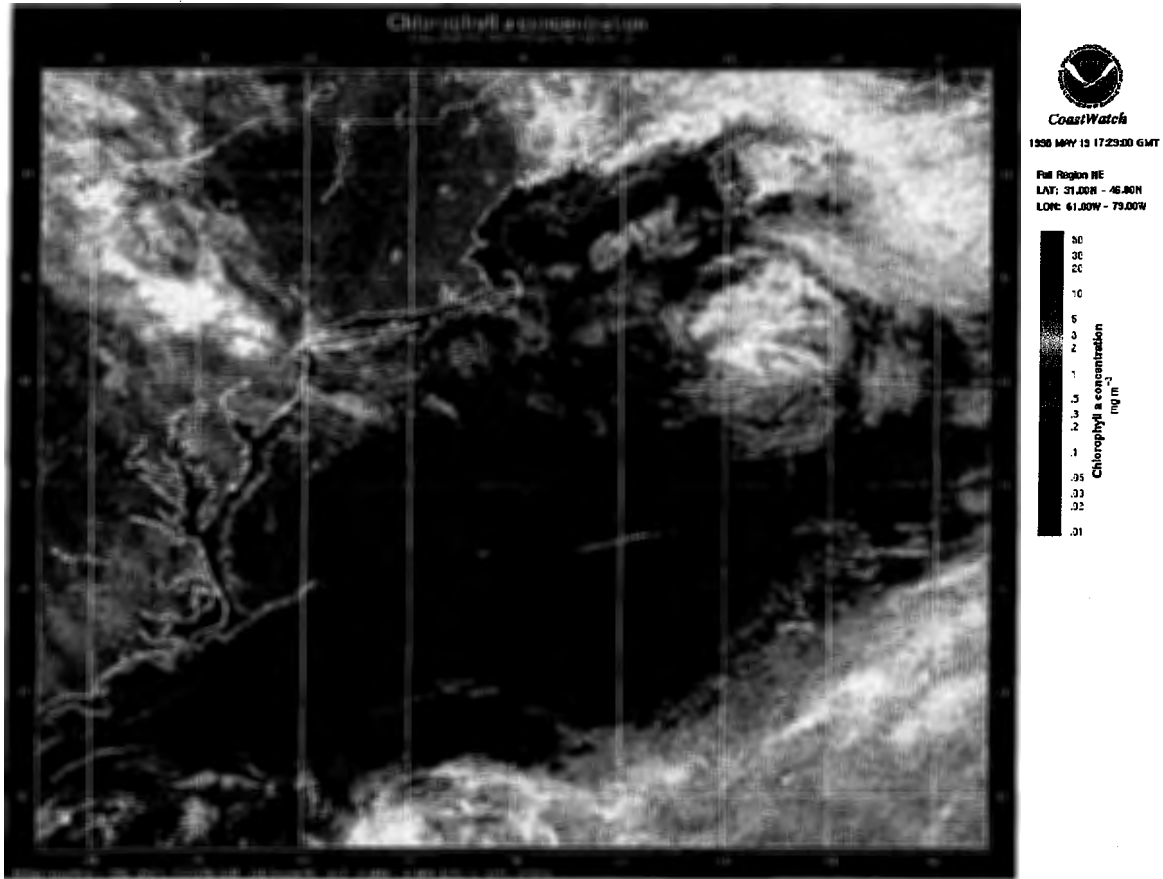


Figure I-9. Chlorophyll a Concentration from May 19, 1998

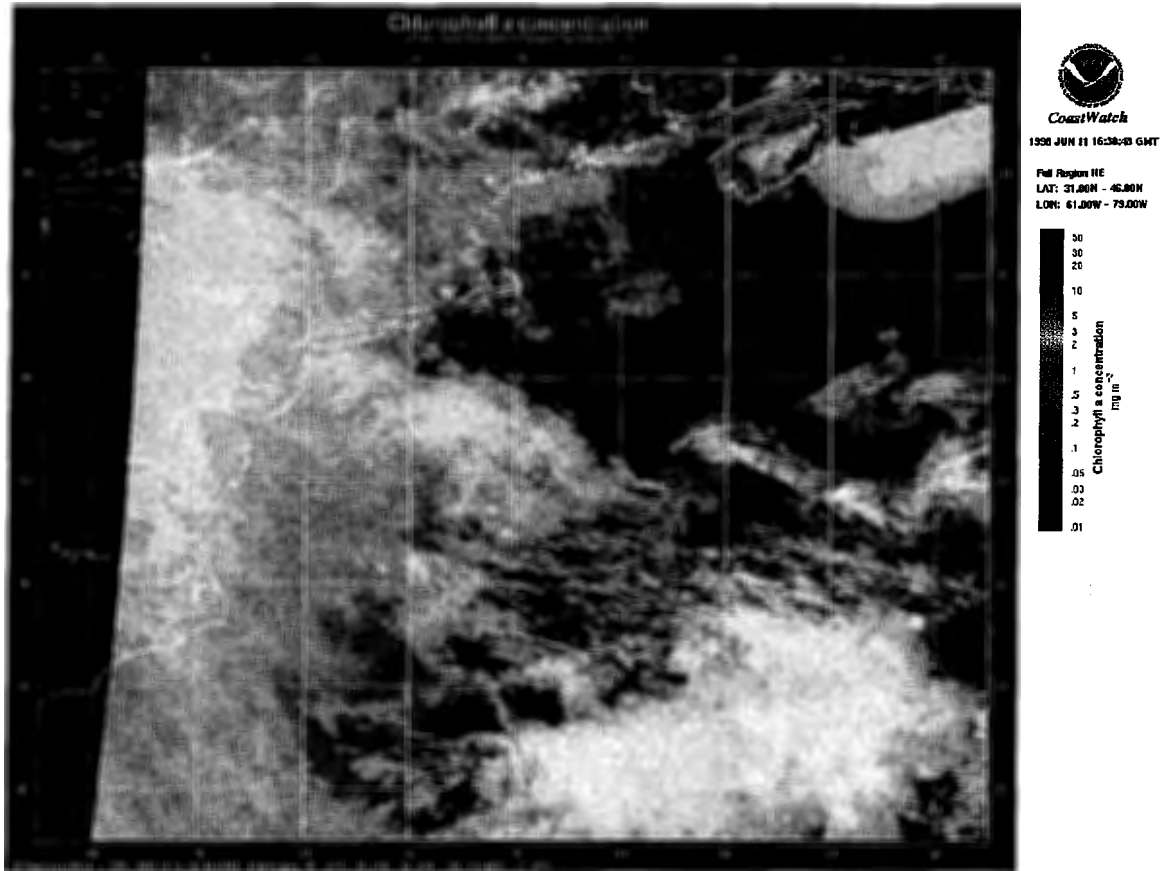


Figure I-10. Chlorophyll a Concentration from June 11, 1998

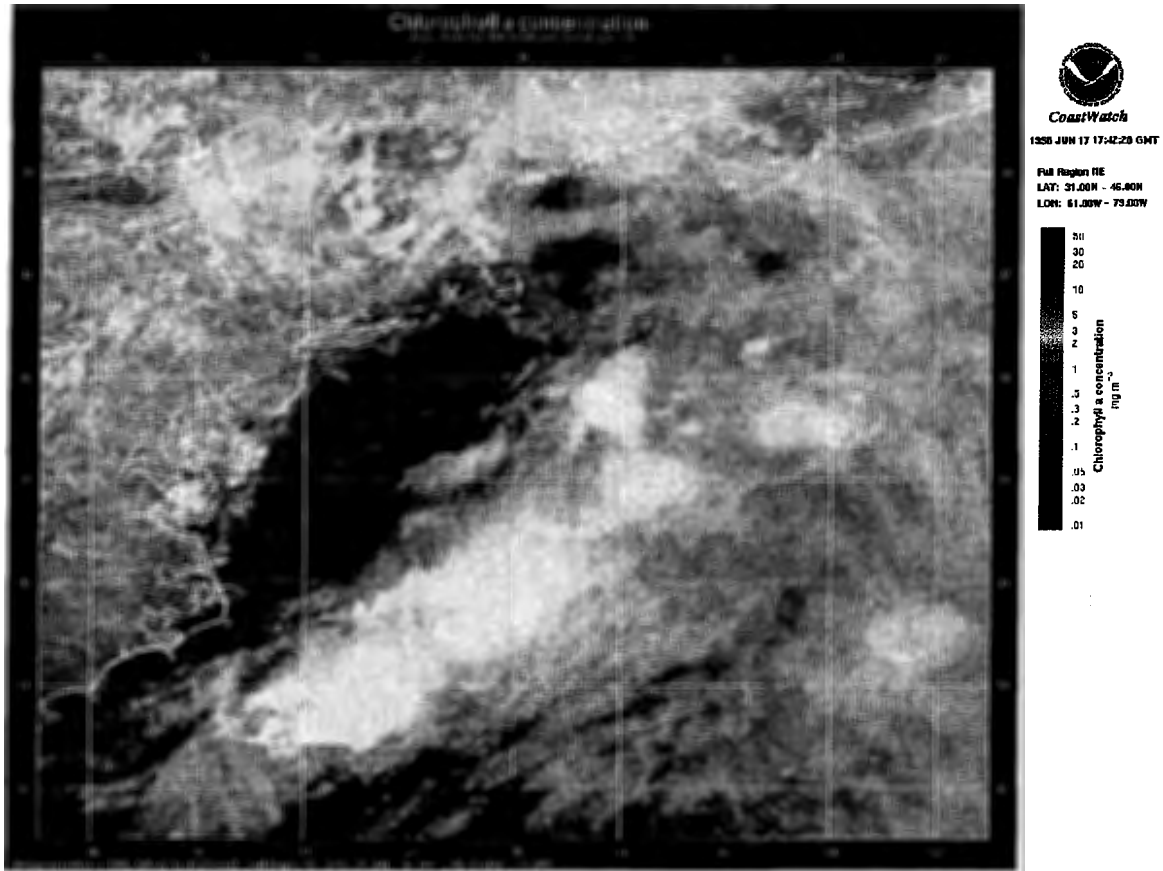


Figure I-11. Chlorophyll a Concentration from June 17, 1998

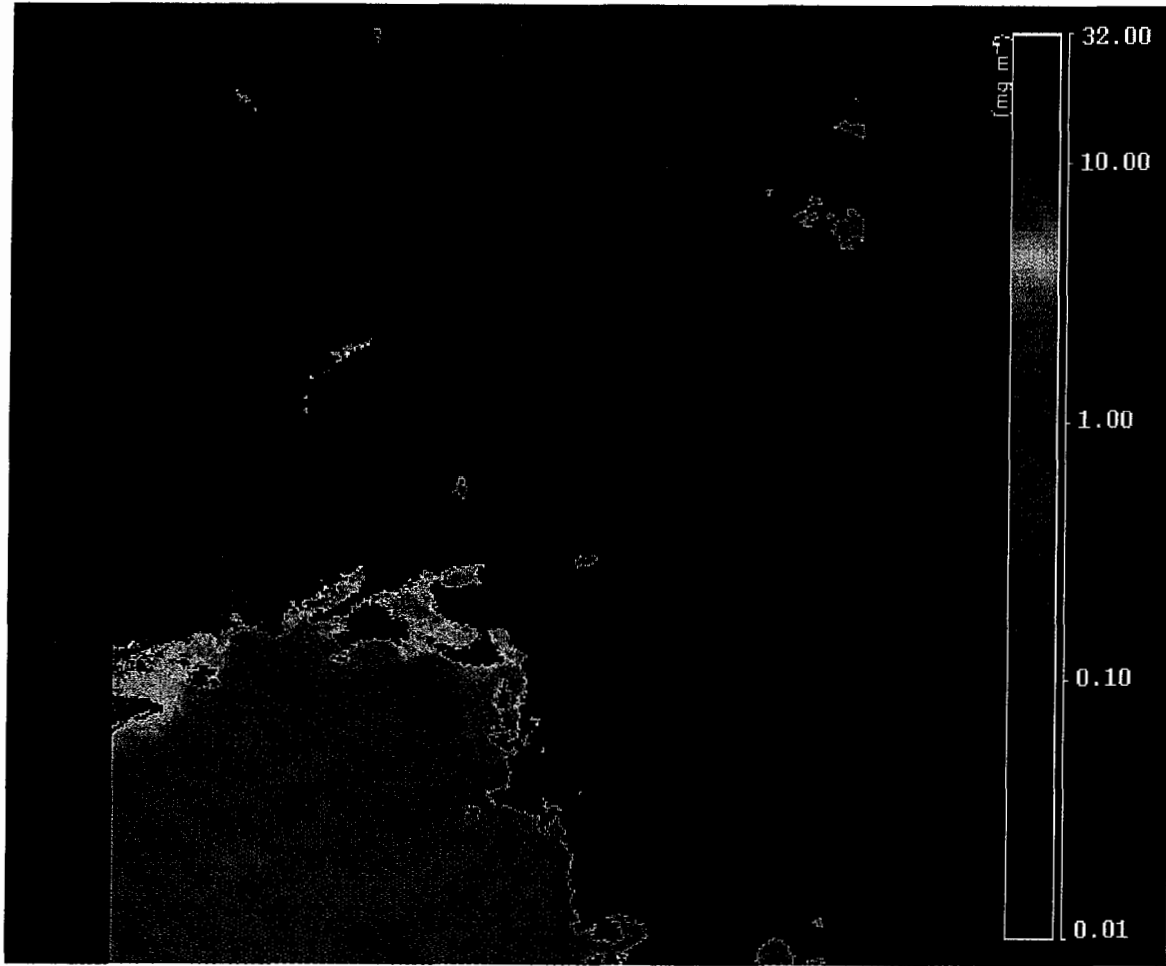


Figure I-12. Chlorophyll a Concentration from June 19, 1998

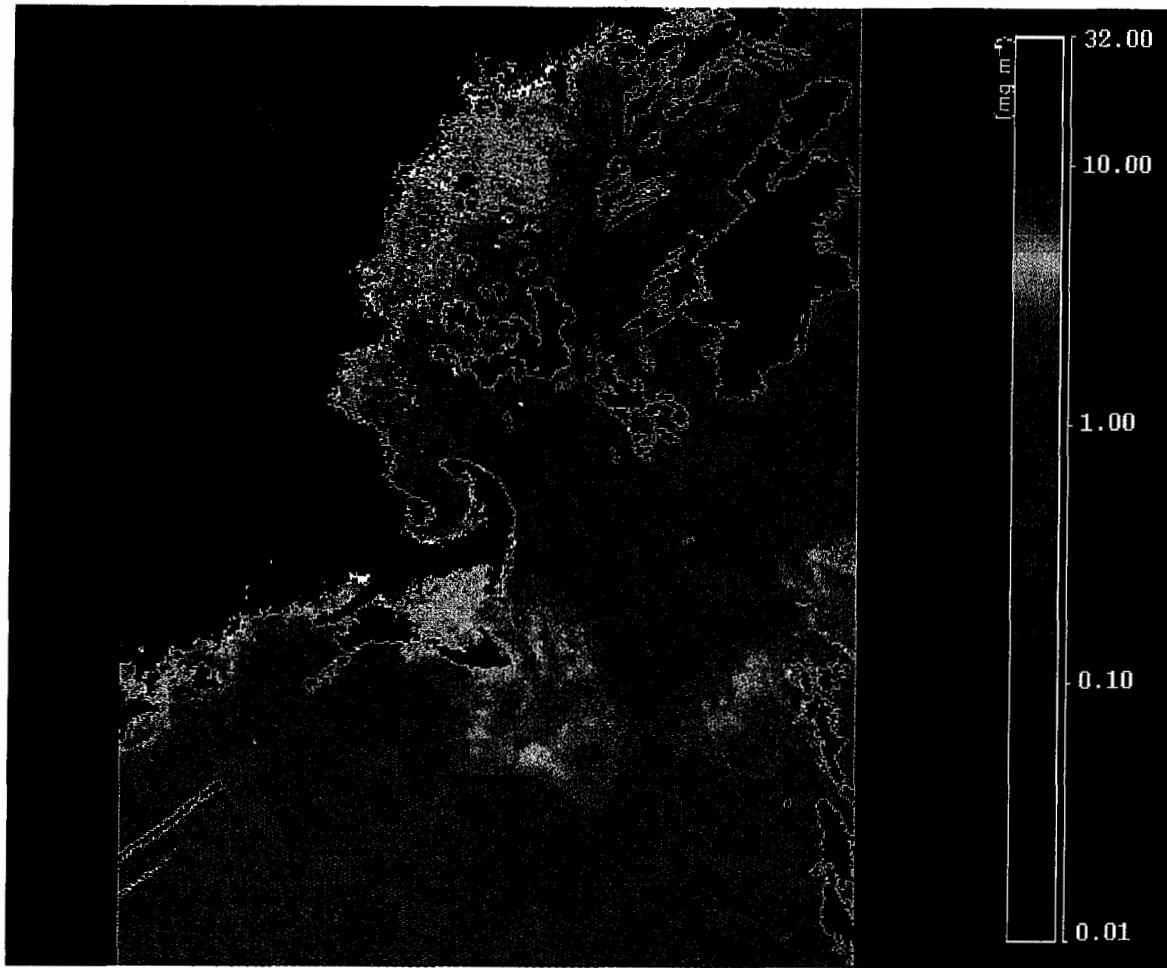


Figure I-13. Chlorophyll a Concentration from July 13, 1998

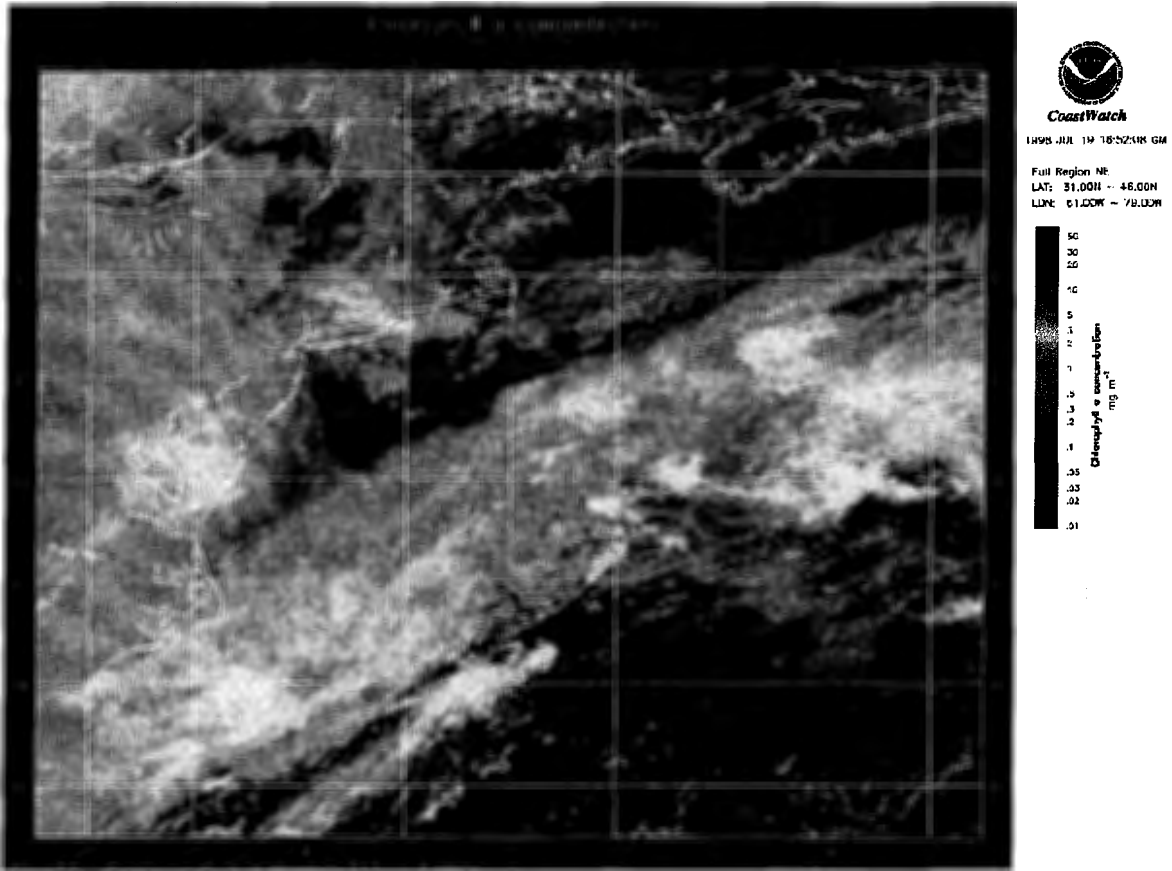


Figure I-14. Chlorophyll a Concentration from July 19, 1998

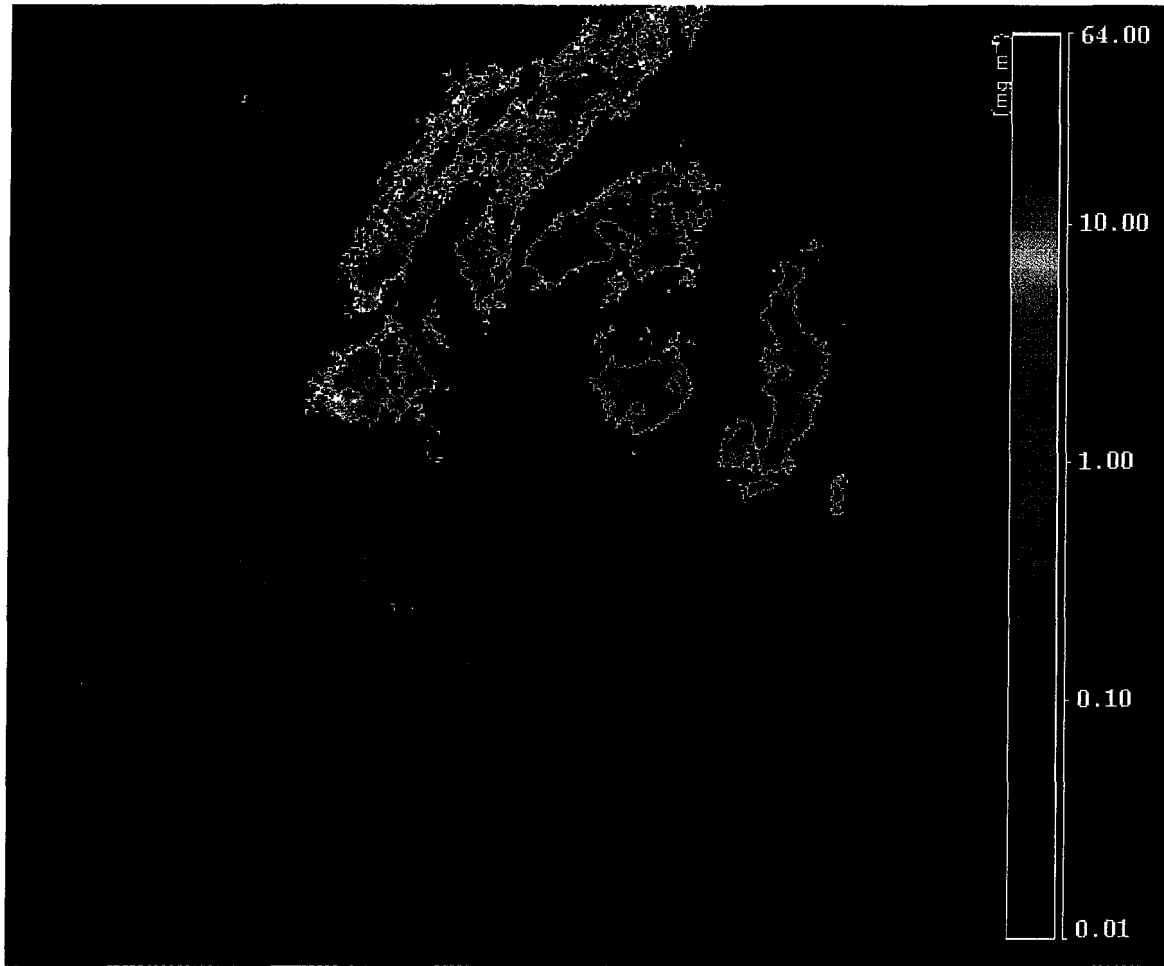


Figure I-15. Chlorophyll a Concentration from July 22, 1998

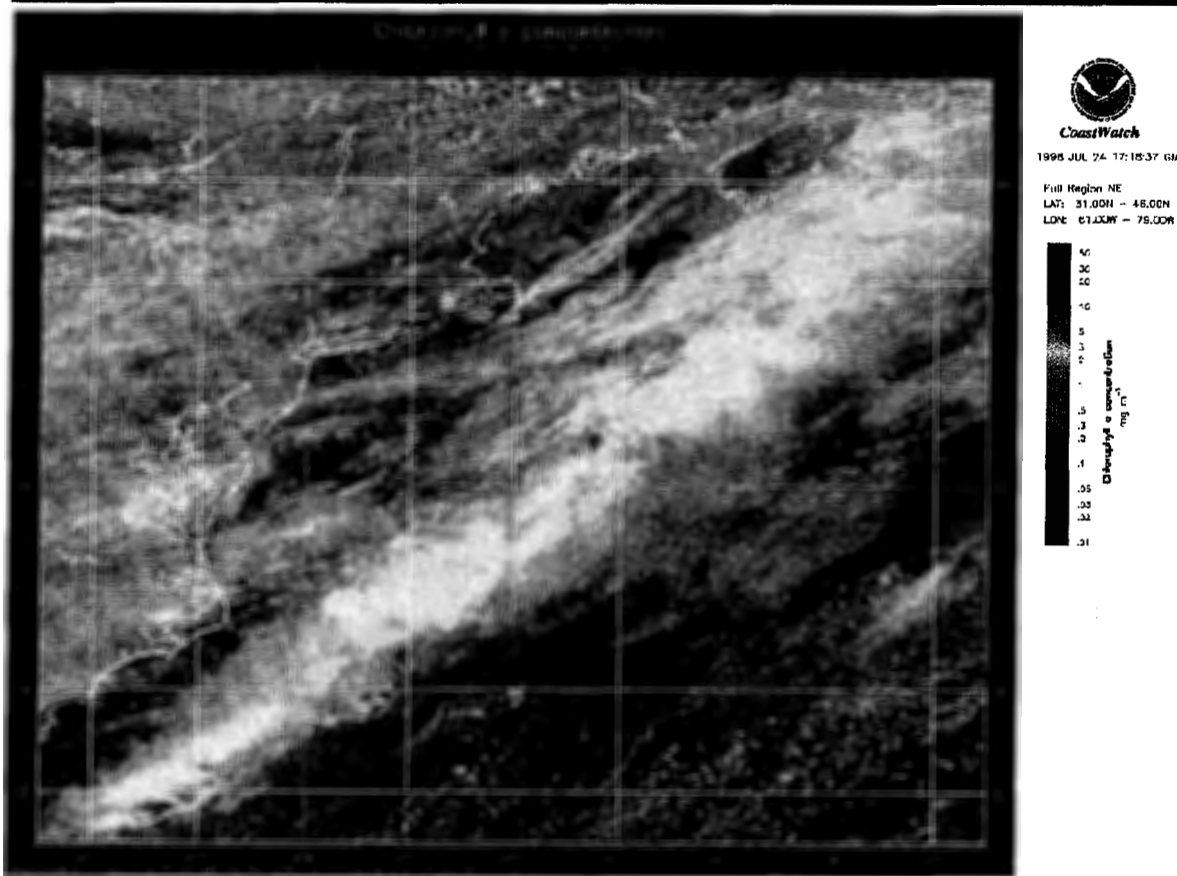


Figure I-16. Chlorophyll a Concentration from July 24, 1998

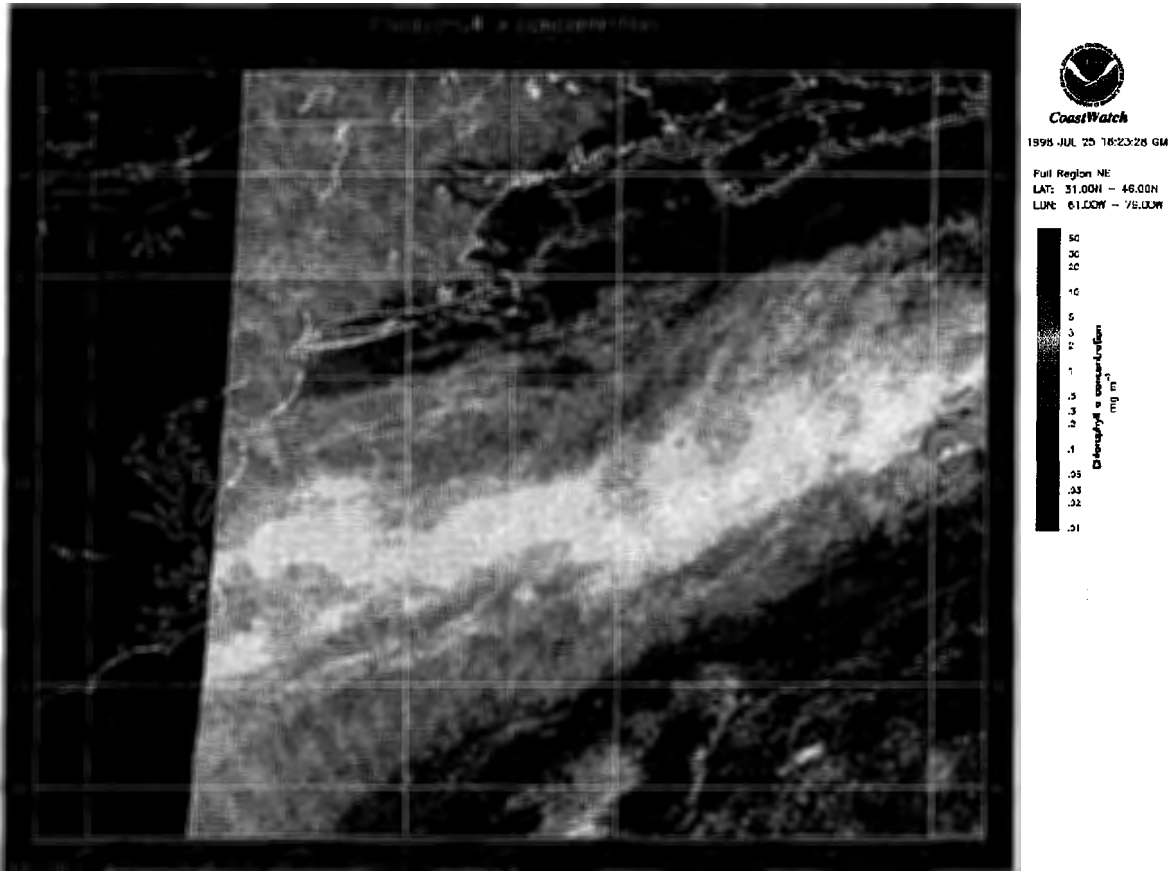


Figure I-17. Chlorophyll a Concentration from July 25, 1998

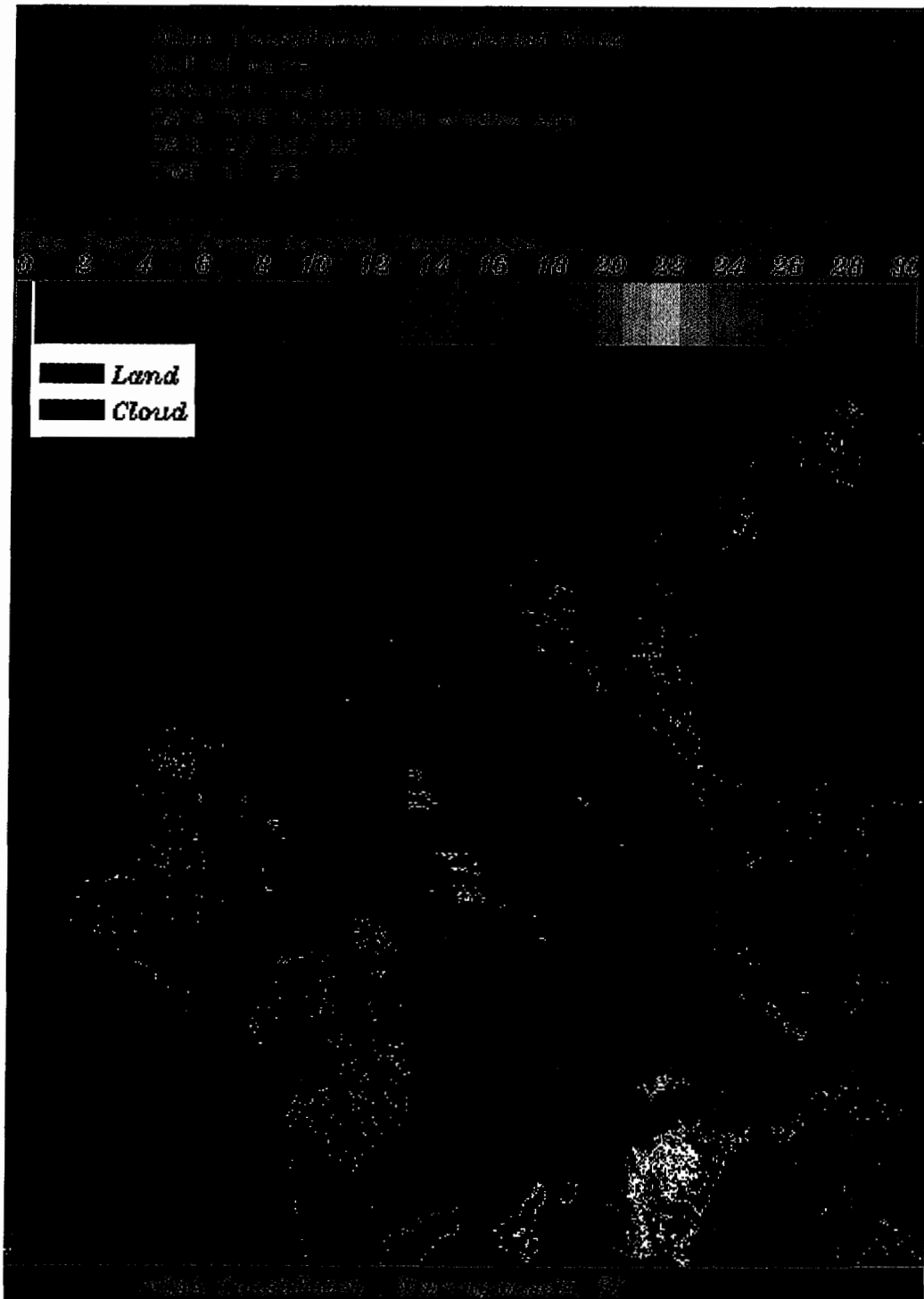


Figure I-18. Sea Surface Temperature from February 26, 1998 11:20

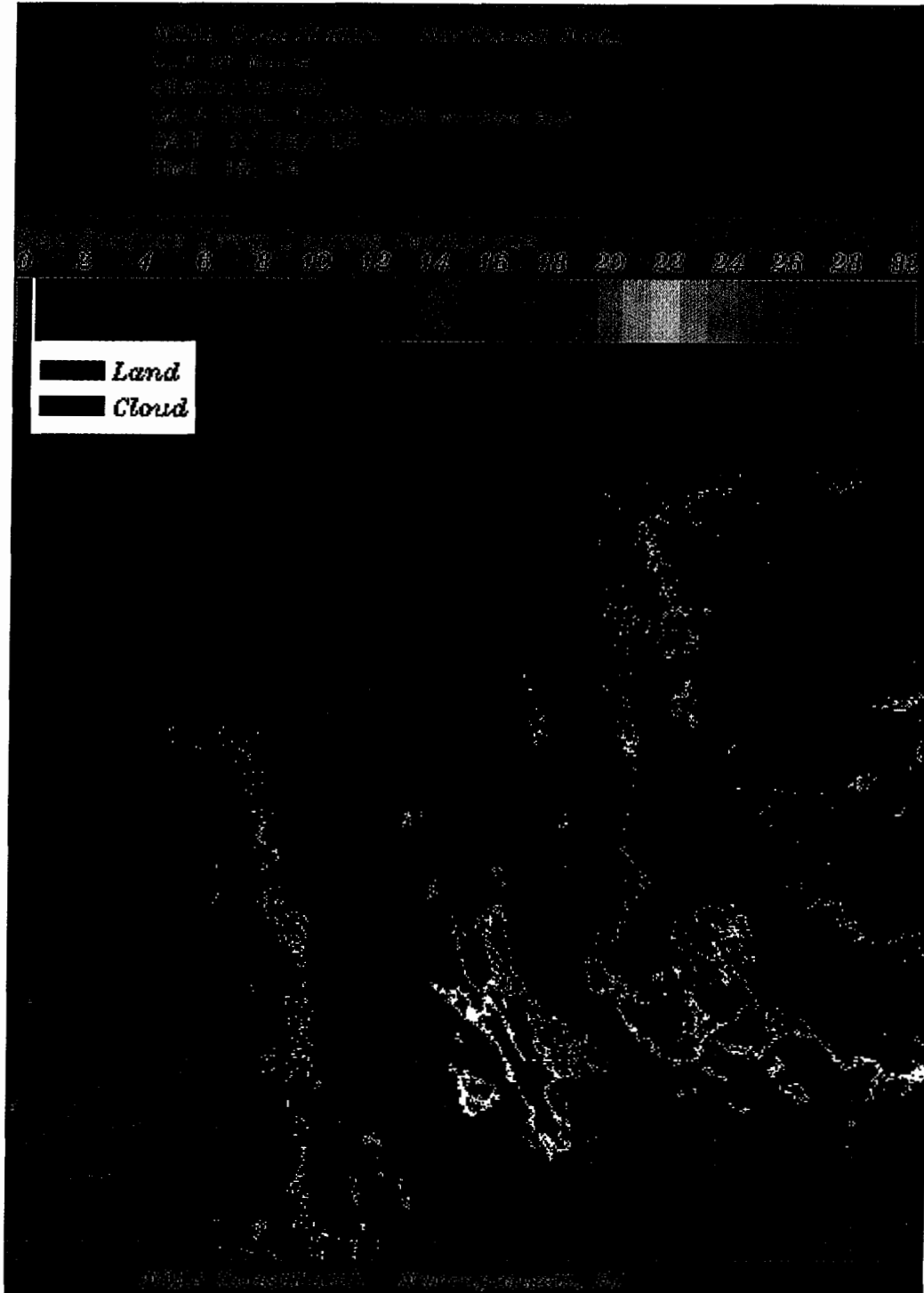


Figure I-19. Sea Surface Temperature from February 26, 1998 18:14

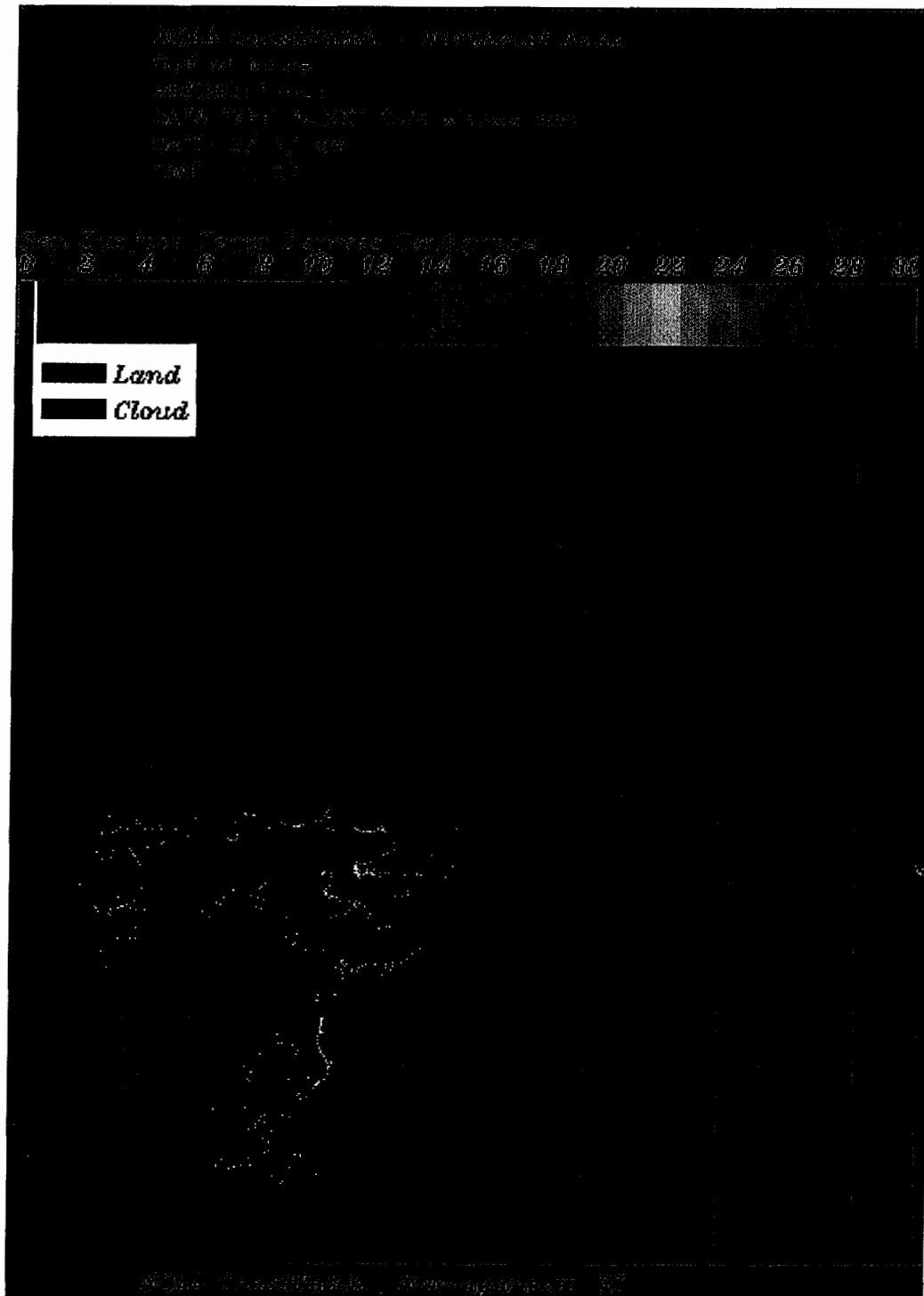


Figure I-20. Sea Surface Temperature from March 1, 1998 11:57

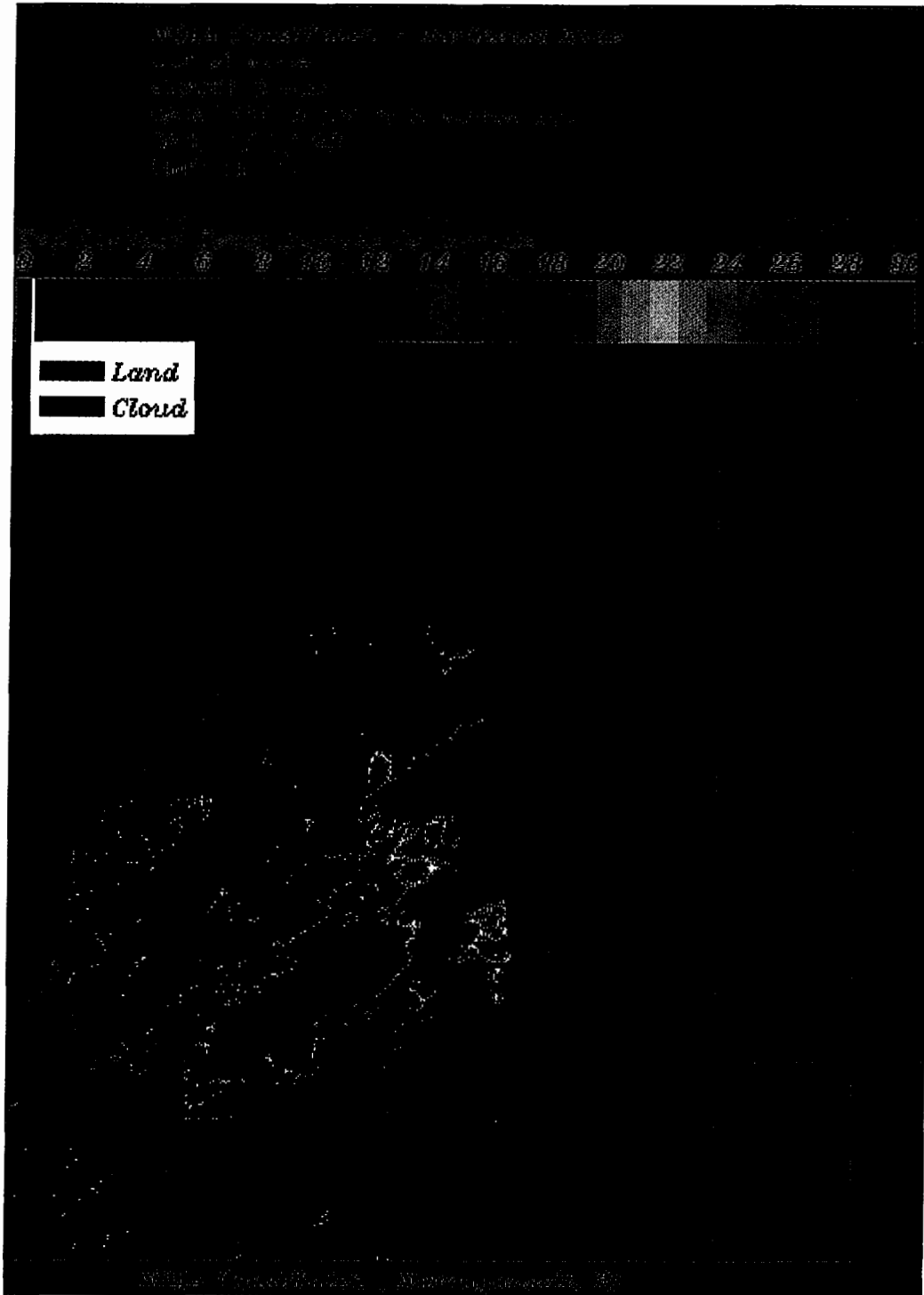


Figure I-21. Sea Surface Temperature from March 2, 1998 19:11



Figure I-22. Sea Surface Temperature from March 2, 1998 22:54

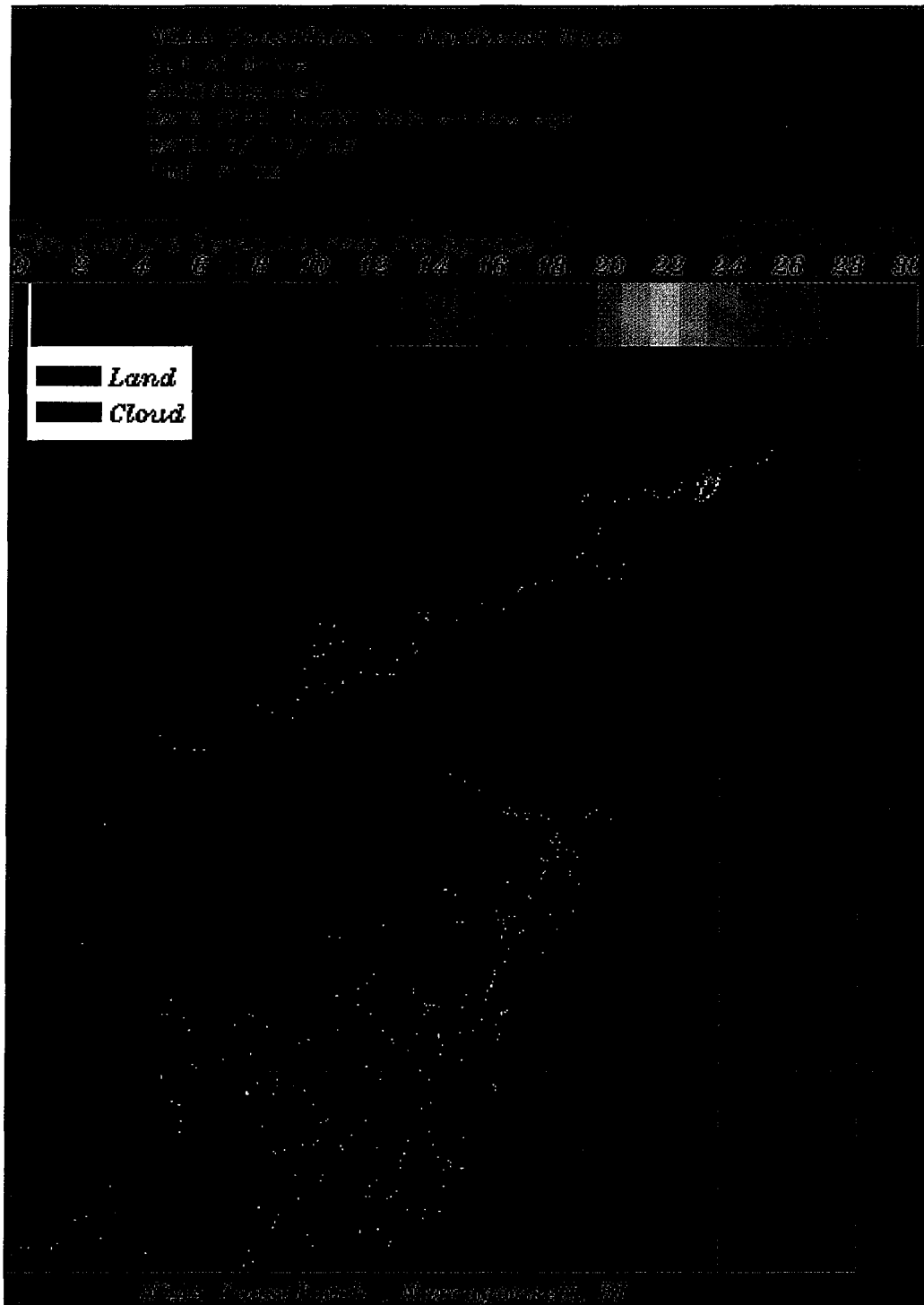


Figure I-23. Sea Surface Temperature from March 17, 1998 8:22

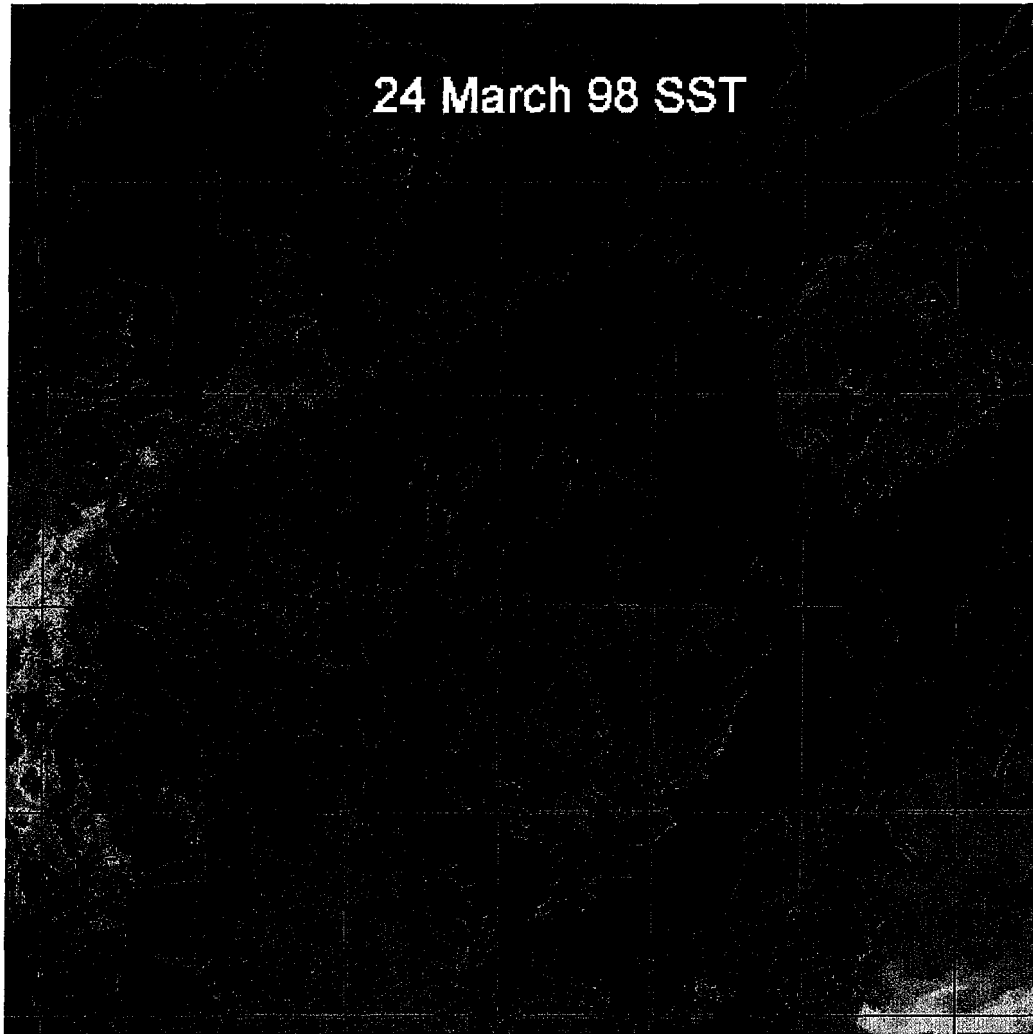


Figure I-24. Sea Surface Temperature from March 24, 1998

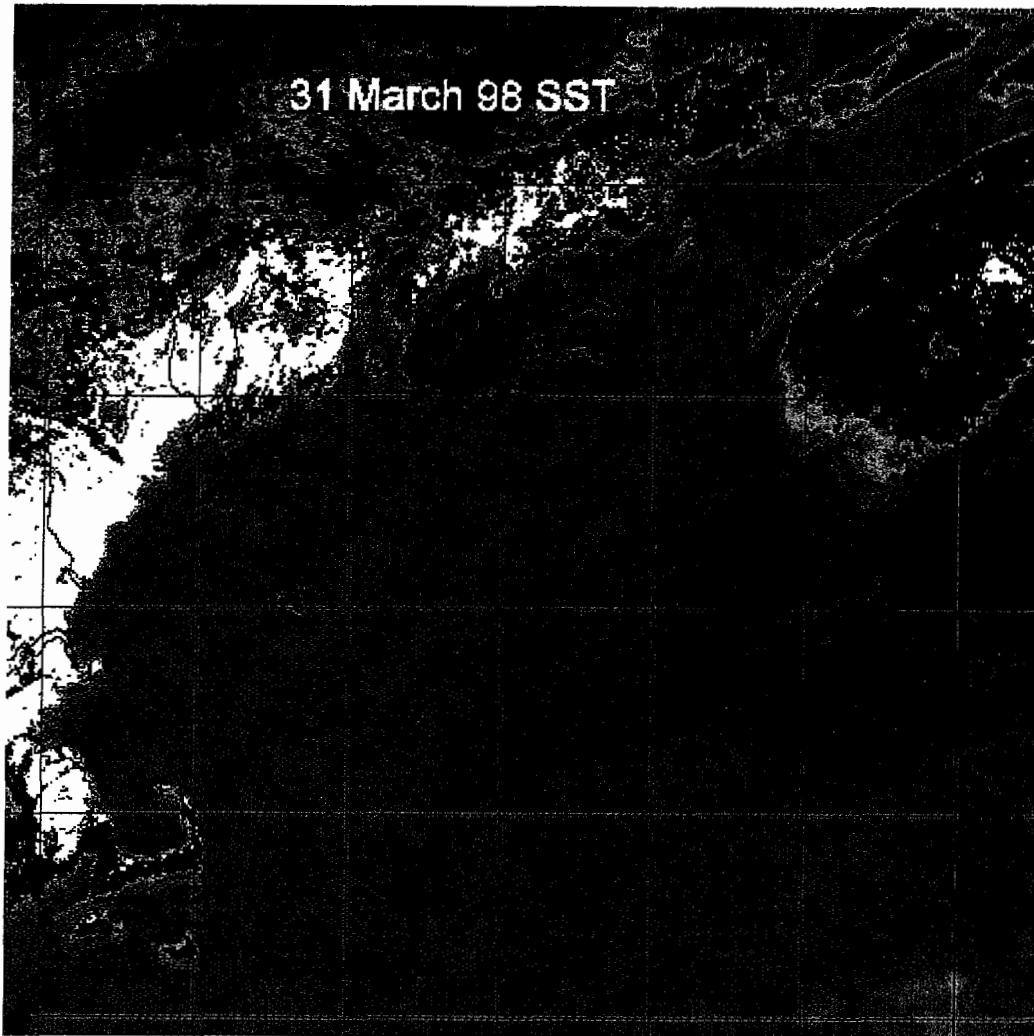


Figure I-25. Sea Surface Temperature from March 31, 1998

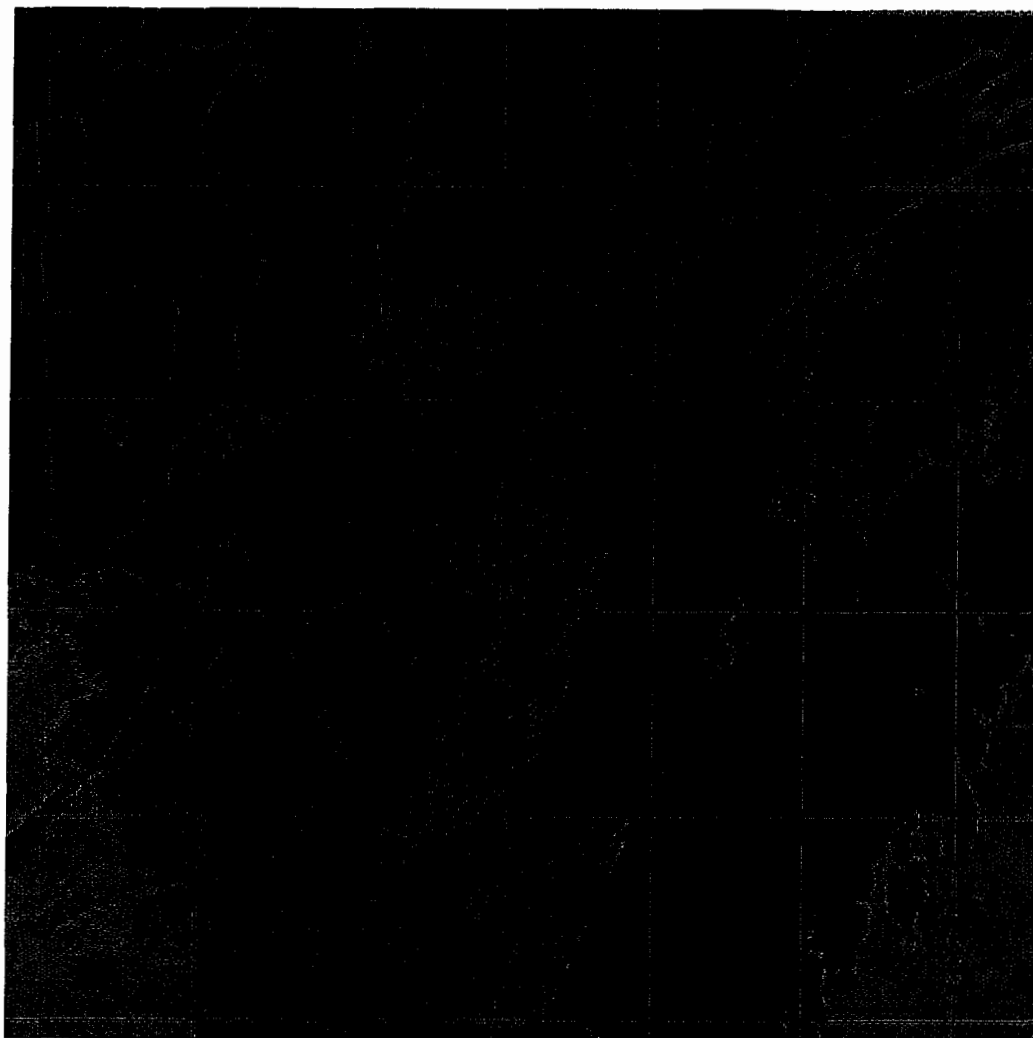


Figure I-26. Sea Surface Temperature from April 3, 1998

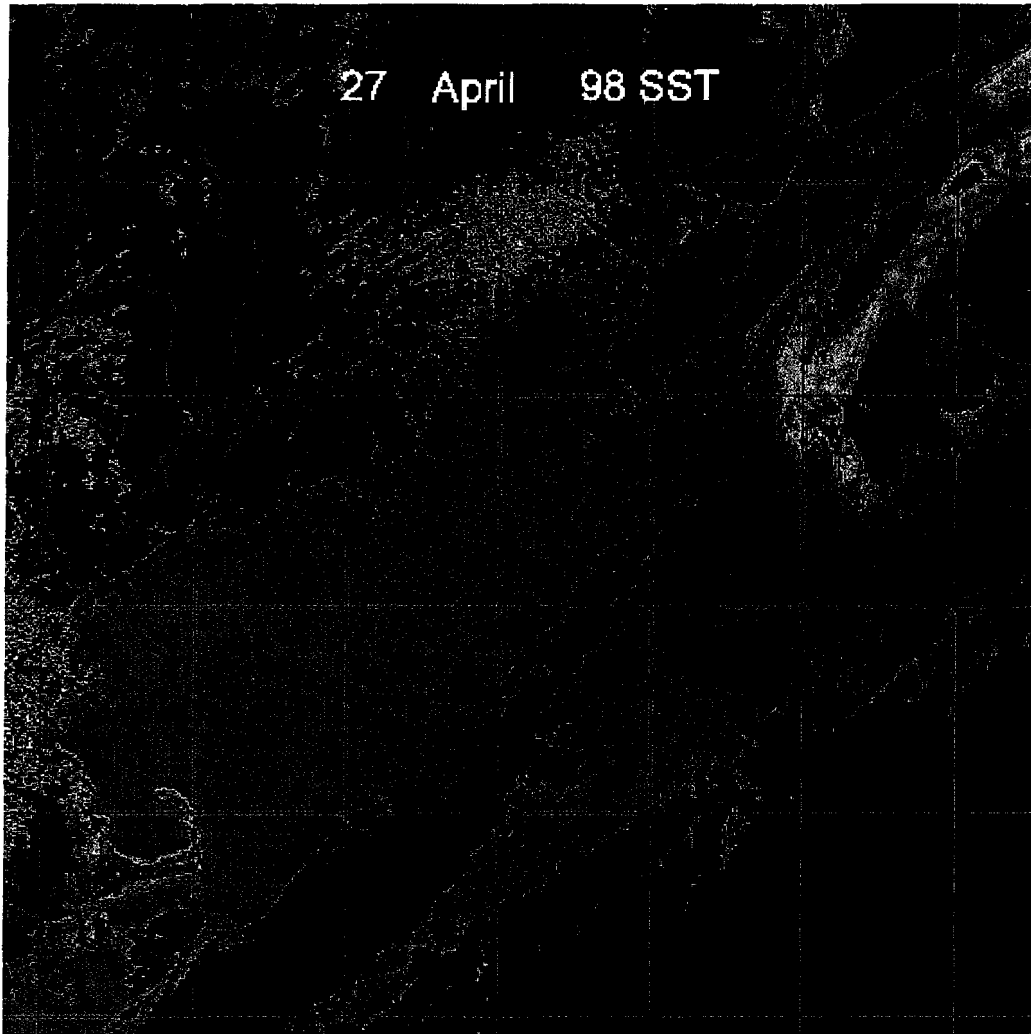


Figure I-27. Sea Surface Temperature from April 27, 1998

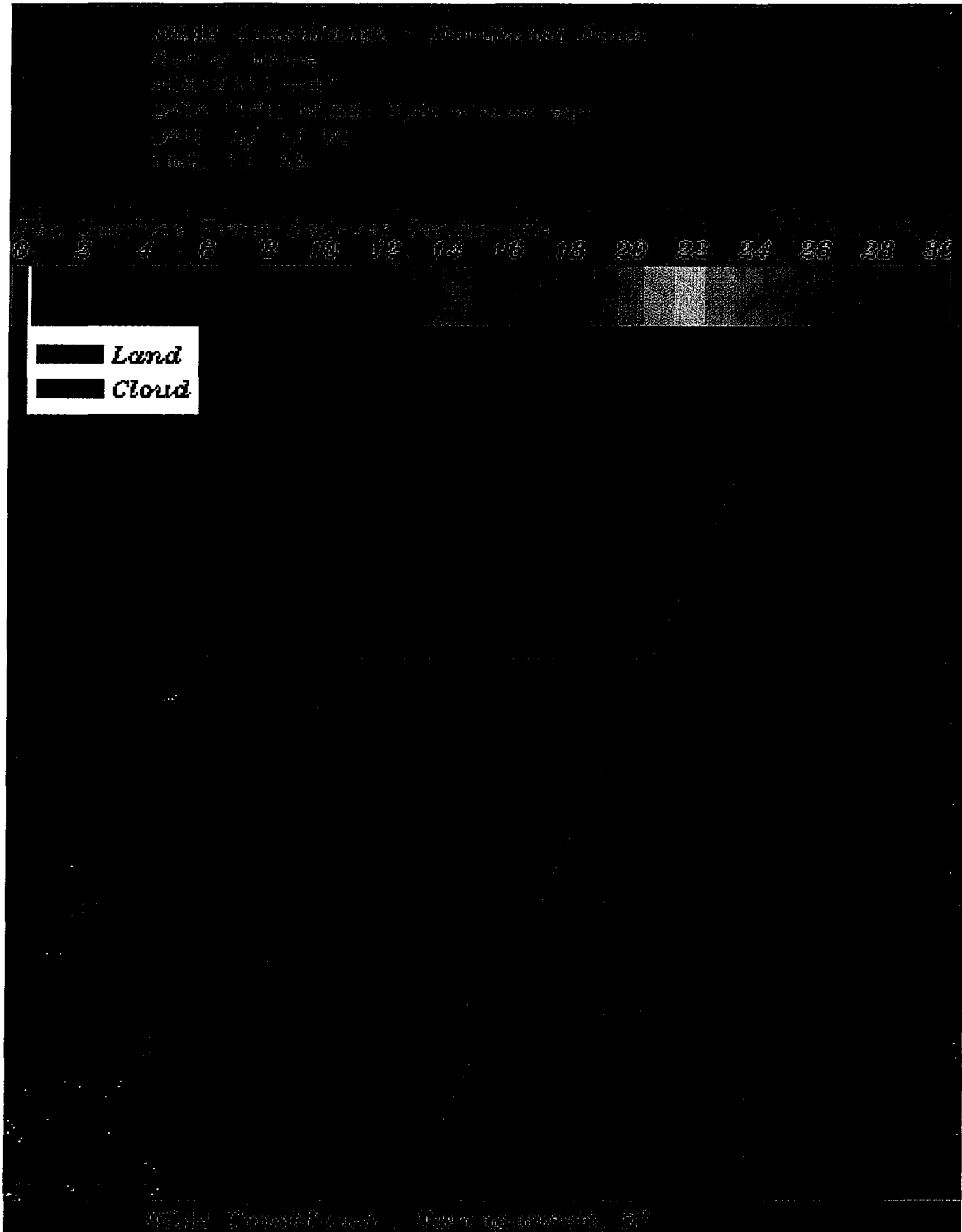


Figure I-28. Sea Surface Temperature from May 4, 1998 11:48

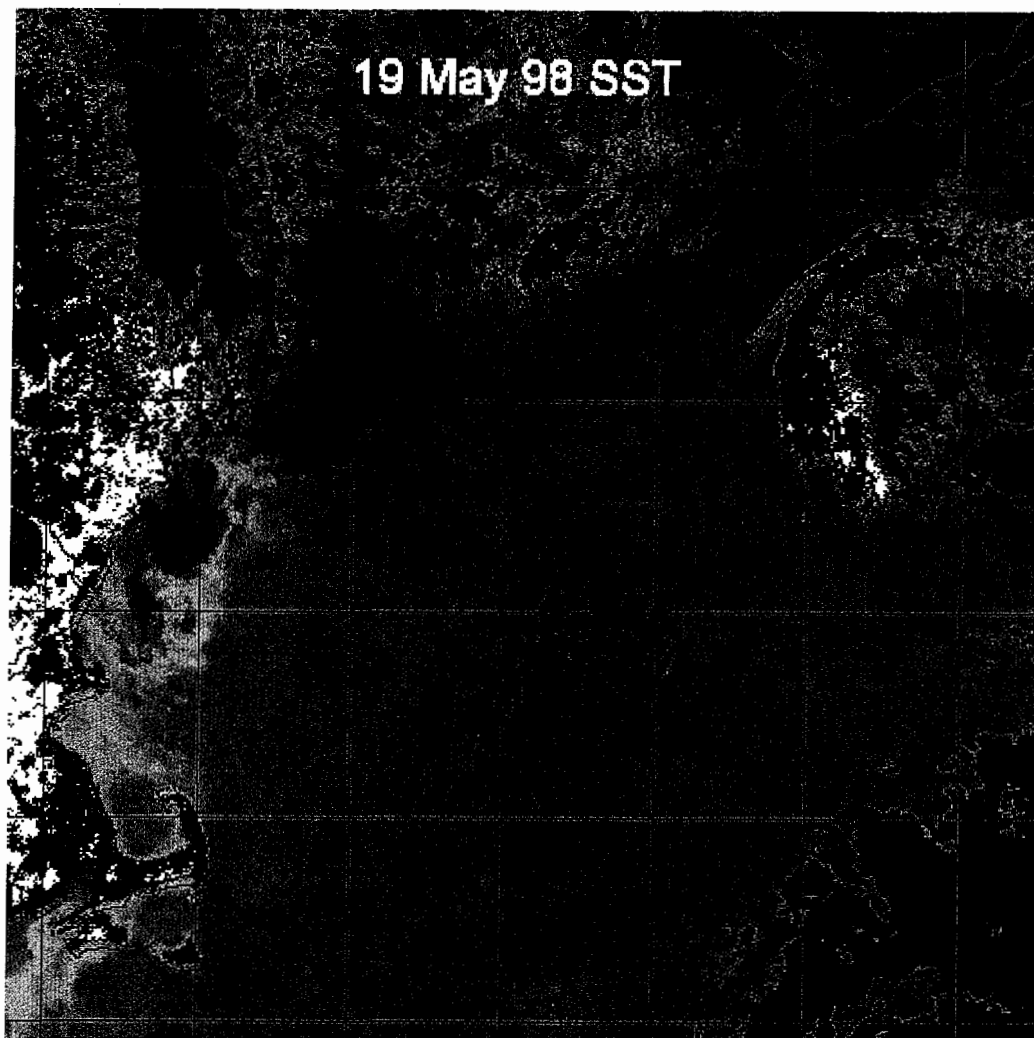


Figure I-29. Sea Surface Temperature from May 19, 1998

APPENDIX J
Secchi Disk Data

Survey ID	Station ID	Station Arrival Date and Time	Secchi Disk Depth (m)	Qualifier
WF981	F01	2/3/1998 11:38:07 AM	5	
WF981	F32	2/3/1998 12:46:00 PM	5	
WF981	F02	2/3/1998 1:35:59 PM	7	
WF981	F33	2/3/1998 3:00:27 PM	7	
WF981	F29	2/3/1998 4:08:31 PM	9	
WF981	F12	2/3/1998 6:03:37 PM		e
WF981	F28	2/3/1998 6:59:13 PM		e
WF981	F27	2/3/1998 8:11:00 PM		e
WF981	F26	2/3/1998 9:28:20 PM		e
WF981	F22	2/4/1998 6:47:48 AM		e
WF981	F19	2/4/1998 7:46:20 AM	6	
WF981	F17	2/4/1998 9:13:33 AM	6	
WF981	F16	2/4/1998 10:19:23 AM	6	
WF981	F15	2/4/1998 11:19:00 AM	5	
WF981	N16	2/4/1998 1:06:51 PM	7	
WF981	F18	2/7/1998 7:34:13 AM	3	
WF981	F24	2/7/1998 8:30:48 AM	3	
WF981	F14	2/7/1998 9:42:16 AM	2	
WF981	F25	2/7/1998 10:40:53 AM	2	
WF981	F31	2/7/1998 12:33:27 PM	2	
WF981	F30	2/7/1998 1:42:28 PM	3	
WF981	F23	2/9/1998 10:20:43 AM	1	
WF981	F13	2/10/1998 10:00:48 AM	3	
WF981	F10	2/10/1998 11:27:59 AM	10	
WF981	F07	2/10/1998 12:45:55 PM	6	
WF981	F06	2/10/1998 1:21:24 PM	2	
WF981	F05	2/10/1998 2:13:05 PM	8	
WF981	F03	2/10/1998 3:40:48 PM	3	
WF982	F02	2/27/1998 11:32:25 AM	5v	
WF982	F33	2/27/1998 1:18:04 PM	5v	
WF982	F29	2/27/1998 2:16:07 PM	7v	
WF982	F12	2/27/1998 4:06:18 PM	15v	
WF982	F28	2/27/1998 5:03:31 PM	7v	
WF982	F27	2/27/1998 6:53:33 PM		e
WF982	F26	2/27/1998 7:58:57 PM		e
WF982	F22	2/28/1998 8:55:31 AM	8v	
WF982	F19	2/28/1998 10:44:15 AM	9v	
WF982	F17	2/28/1998 11:51:13 AM	11v	
WF982	F10	2/28/1998 12:55:33 PM	13v	
WF982	F13	2/28/1998 1:52:07 PM	4v	
WF982	F14	2/28/1998 2:39:08 PM	4v	
WF982	F25	2/28/1998 3:25:21 PM	4v	
WF982	N16	2/28/1998 5:49:39 PM		e
WF982	F18	2/28/1998 7:04:13 PM		e
WF982	F24	2/28/1998 8:09:07 PM		e
WF982	F30	2/28/1998 9:15:01 PM		e

Appendix J

Survey ID	Station ID	Station Arrival Date and Time	Secchi Disk Depth (m)	Qualifier
WF982	F23	3/1/1998 6:55:15 AM	3	v
WF982	F31	3/2/1998 6:26:15 AM	3	v
WF982	F15	3/2/1998 7:40:31 AM	7	v
WF982	F16	3/2/1998 8:34:27 AM	13	v
WF982	F07	3/2/1998 9:53:02 AM	16	v
WF982	F06	3/2/1998 10:25:33 AM	13	v
WF982	F05	3/2/1998 11:13:28 AM	4	v
WF982	F03	3/2/1998 12:41:19 PM	4	v
WF982	F01	3/2/1998 1:36:10 PM	4	
WF984	F01	3/31/1998 9:43:10 AM	5	v
WF984	F32	3/31/1998 11:12:47 AM	6	v
WF984	F02	3/31/1998 11:53:20 AM	12	v
WF984	F33	3/31/1998 1:09:06 PM	10	v
WF984	F29	3/31/1998 1:56:13 PM	12	v
WF984	F12	3/31/1998 4:02:01 PM	13	v
WF984	F28	3/31/1998 5:01:10 PM	9	v
WF984	F18	4/1/1998 10:00:50 AM	8	v
WF984	F30	4/1/1998 12:18:17 PM	4	v
WF984	F23	4/2/1998 7:29:45 AM	3	v
WF984	N04	4/2/1998 9:03:26 AM	17	v
WF984	F24	4/3/1998 6:02:13 AM	7	v
WF984	N16	4/3/1998 7:05:57 AM	17	v
WF984	F22	4/3/1998 8:04:27 AM	18	v
WF984	F19	4/3/1998 8:43:10 AM	18	v
WF984	F17	4/3/1998 9:31:02 AM	16	v
WF984	F16	4/3/1998 10:06:21 AM	16	v
WF984	F15	4/3/1998 10:38:54 AM	14	v
WF984	F14	4/3/1998 11:13:42 AM	8	v
WF984	F13	4/3/1998 11:51:09 AM	6	v
WF984	F10	4/3/1998 12:29:42 PM	17	v
WF984	F07	4/3/1998 1:20:34 PM	18	v
WF984	F06	4/3/1998 1:50:02 PM	14	v
WF984	F05	4/3/1998 2:25:26 PM	8	v
WF984	F03	4/3/1998 3:49:14 PM	8	v
WF987	F03	6/16/1998 9:26:08 AM	6	v
WF987	F01	6/16/1998 10:35:49 AM	8	v
WF987	F02	6/16/1998 12:14:55 PM	8	v
WF987	F29	6/16/1998 2:00:09 PM	11	v
WF987	F07	6/16/1998 3:15:58 PM	8	v
WF987	F06	6/16/1998 3:54:00 PM		e
WF987	F05	6/16/1998 4:50:01 PM	8	v
WF987	F31	6/16/1998 7:01:33 PM	6	v
WF987	F14	6/17/1998 11:56:51 AM	3	v
WF987	F13	6/17/1998 12:27:37 PM	4	v
WF987	F10	6/17/1998 1:27:56 PM	7	v
WF987	F17	6/17/1998 2:36:29 PM	9	v
WF987	F16	6/17/1998 3:10:00 PM	7	v

Survey ID	Station ID	Station Arrival Date and Time	Secchi Disk Depth (m)	Qualifier
WF987	F15	6/17/1998 3:55:18 PM	6	v
WF987	F12	6/18/1998 8:34:49 AM	15	v
WF987	F28	6/18/1998 9:22:36 AM	10	v
WF987	F27	6/18/1998 10:43:55 AM	11	v
WF987	F26	6/18/1998 11:45:56 AM	3	v
WF987	F19	6/18/1998 1:02:43 PM	11	v
WF987	F24	6/18/1998 2:29:06 PM	3	v
WF987	F30	6/18/1998 3:22:53 PM	3	v
WF987	F18	6/19/1998 8:48:07 AM	3	v
WF987	F22	6/19/1998 10:36:51 AM	3	v
WF987	F25	6/19/1998 4:00:34 PM	3	v
WF987	F23	6/22/1998 6:27:09 AM		e
WF987	N16	6/22/1998 4:58:43 PM	8	v

e- Results not reported, value given is null

v- Arithmetic mean

APPENDIX K

Estimated Carbon Equivalence Data

Survey	Sta.	Sample Number	Depth (m)	Sampling Date	Plankton	Estimated Carbon Equivalence (ng Carbon/L)
WF981	F01	WF98104A	12.41	2/2/98	CERATIUM FUSUS	30.33
WF981	F01	WF98104A	12.41	2/2/98	CERATIUM TRIPOS	38.85
WF981	F01	WF98104A	12.41	2/2/98	DISTEPHANUS SPECULUM	105.87
WF981	F01	WF98104A	12.41	2/2/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	585.45
WF981	F01	WF98104A	12.41	2/2/98	CHAETOCEROS SPP.(<10UM)	375.09
WF981	F01	WF98104A	12.41	2/2/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	976.76
WF981	F01	WF98104A	12.41	2/2/98	CRYPTOMONAS SP. GROUP 2 LENGTH >10 MICRONS	418.18
WF981	F01	WF98104A	12.41	2/2/98	CYLINDROTHECA CLOSTERIUM	2770.19
WF981	F01	WF98104A	12.41	2/2/98	DICTYOCHA SPECULUM	NA
WF981	F01	WF98104A	12.41	2/2/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	2160.25
WF981	F01	WF98104A	12.41	2/2/98	GYRODINIUM SP. GROUP 1 5-20UM W 10-20UM L	1080.12
WF981	F01	WF98104A	12.41	2/2/98	PARALIA SULCATA	802.17
WF981	F01	WF98104A	12.41	2/2/98	PENNATE DIATOMS SP. GROUP 8 10-20 MICRONS LENGTH	NA
WF981	F01	WF98104A	12.41	2/2/98	PYRAMIMONAS SP. GROUP 1 10-20 MICRONS LENGTH	NA
WF981	F01	WF98104A	12.41	2/2/98	SKELETONEMA COSTATUM GREV+CLEVE	83255.53
WF981	F01	WF98104A	12.41	2/2/98	THALASSIONEMA NITZSCHIOIDES	881.56
WF981	F01	WF98104A	12.41	2/2/98	THALASSIOSIRA ROTULA	13315.58
WF981	F01	WF98104A	12.41	2/2/98	THALASSIOSIRA SP. GROUP 3 10-20 MICRONS LENGTH	1600.17
WF981	F01	WF98104A	12.41	2/2/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	60738.27
WF981	F01	WF98104A	12.41	2/2/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	16485.66
WF981	F01	WF98104C	3.32	2/2/98	CERATIUM LONGIPES	61.46
WF981	F01	WF98104C	3.32	2/2/98	CERATIUM TRIPOS	94.77
WF981	F01	WF98104C	3.32	2/2/98	DINOPHYSIS ACUTA	26.47
WF981	F01	WF98104C	3.32	2/2/98	DISTEPHANUS SPECULUM	10.51
WF981	F01	WF98104C	3.32	2/2/98	MESODINIUM RUBRUM	NA
WF981	F01	WF98104C	3.32	2/2/98	PROROCENTRUM MICANS	3.86
WF981	F01	WF98104C	3.32	2/2/98	PROTOPERIDINIUM PELLUCIDUM	37.65
WF981	F01	WF98104C	3.32	2/2/98	PROTOPERIDINIUM SPP.	19.73
WF981	F01	WF98104C	3.32	2/2/98	CHAETOCEROS SPP. (10-20UM)	NA
WF981	F01	WF98104C	3.32	2/2/98	CHAETOCEROS SPP.(<10UM)	208.44
WF981	F01	WF98104C	3.32	2/2/98	CORETHRON CRIOPHILUM	11516.40
WF981	F01	WF98104C	3.32	2/2/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	1302.35
WF981	F01	WF98104C	3.32	2/2/98	CRYPTOMONAS SP. GROUP 2 LENGTH >10 MICRONS	836.36
WF981	F01	WF98104C	3.32	2/2/98	CYLINDROTHECA CLOSTERIUM	9233.98
WF981	F01	WF98104C	3.32	2/2/98	DICTYOCHA SPECULUM	NA
WF981	F01	WF98104C	3.32	2/2/98	EUTREPTIA/EUTREPTIELLA SPP.	NA
WF981	F01	WF98104C	3.32	2/2/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	809.90
WF981	F01	WF98104C	3.32	2/2/98	GYRODINIUM SP. GROUP 1 5-20UM W 10-20UM L	2160.25
WF981	F01	WF98104C	3.32	2/2/98	HETEROCAPSA ROTUNDATA	159.38
WF981	F01	WF98104C	3.32	2/2/98	LEPTOCYLINDRUS MINIMUS	196.97
WF981	F01	WF98104C	3.32	2/2/98	PROROCENTRUM MINIMUM	580.93
WF981	F01	WF98104C	3.32	2/2/98	PSEUDONITZSCHIA PUNGENS	379.14
WF981	F01	WF98104C	3.32	2/2/98	PYRAMIMONAS SP. GROUP 1 10-20 MICRONS LENGTH	NA
WF981	F01	WF98104C	3.32	2/2/98	RHIZOLENIA SETIGERA	5276.82
WF981	F01	WF98104C	3.32	2/2/98	SKELETONEMA COSTATUM GREV+CLEVE	96674.53
WF981	F01	WF98104C	3.32	2/2/98	THALASSIONEMA NITZSCHIOIDES	1259.37
WF981	F01	WF98104C	3.32	2/2/98	THALASSIOSIRA ROTULA	16644.48
WF981	F01	WF98104C	3.32	2/2/98	THALASSIOSIRA SP. GROUP 3 10-20 MICRONS LENGTH	2400.26
WF981	F01	WF98104C	3.32	2/2/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	65136.56

Survey	Sta.	Sample Number	Depth (m)	Sampling Date	Plankton	Estimated Carbon Equivalence (ng Carbon/L)
WF981	F01	WF98104C	3.32	2/2/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	22826.29
WF981	F02	WF98106E	19.29	2/2/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	351.27
WF981	F02	WF98106E	19.29	2/2/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	2422.36
WF981	F02	WF98106E	19.29	2/2/98	CRYPTOMONAS SP. GROUP 2 LENGTH >10 MICRONS	2007.26
WF981	F02	WF98106E	19.29	2/2/98	CYLINDROTHECA CLOSTERIUM	923.62
WF981	F02	WF98106E	19.29	2/2/98	DICTYOCHA SPECULUM	NA
WF981	F02	WF98106E	19.29	2/2/98	EUTREPTIA/EUTREPTIELLA SPP.	NA
WF981	F02	WF98106E	19.29	2/2/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	5184.59
WF981	F02	WF98106E	19.29	2/2/98	GYRODINIUM GLAUCUM	NA
WF981	F02	WF98106E	19.29	2/2/98	PENNATE DIATOMS SP. GROUP 7 20-30 MICRONS LENGTH	NA
WF981	F02	WF98106E	19.29	2/2/98	PLEUROSIGMA SPP.	5081.45
WF981	F02	WF98106E	19.29	2/2/98	POROSIRA GLACIALIS	NA
WF981	F02	WF98106E	19.29	2/2/98	SKELETONEMA COSTATUM GREV+CLEVE	1904.63
WF981	F02	WF98106E	19.29	2/2/98	THALASSIONEMA NITZSCHIOIDES	1637.18
WF981	F02	WF98106E	19.29	2/2/98	THALASSIOSIRA SP. GROUP 4 20-30 MICRONS LENGTH	1596.55
WF981	F02	WF98106E	19.29	2/2/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	49637.83
WF981	F02	WF98106E	19.29	2/2/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	15978.41
WF981	F02	WF98106E	19.29	2/2/98	ATHECATE DINOFLAGELLATE	NA
WF981	F02	WF98106E	19.29	2/2/98	CERATIUM FUSUS	29.59
WF981	F02	WF98106E	19.29	2/2/98	CERATIUM LONGIPES	24.59
WF981	F02	WF98106E	19.29	2/2/98	DISTEPHANUS SPECULUM	24.62
WF981	F02	WF98106E	19.29	2/2/98	GYMNODINIUM SPP.	5.32
WF981	F02	WF98106E	19.29	2/2/98	MESODINIUM RUBRUM	NA
WF981	F02	WF98106E	19.29	2/2/98	PROTOPIRIDINIUM PELLUCIDUM	15.06
WF981	F02	WF98106E	19.29	2/2/98	PROTOPIRIDINIUM SPP.	7.89
WF981	F02	WF981071	3.18	2/2/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	125.45
WF981	F02	WF981071	3.18	2/2/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	1709.33
WF981	F02	WF981071	3.18	2/2/98	CRYPTOMONAS SP. GROUP 2 LENGTH >10 MICRONS	2822.72
WF981	F02	WF981071	3.18	2/2/98	DICTYOCHA SPECULUM	NA
WF981	F02	WF981071	3.18	2/2/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	1620.18
WF981	F02	WF981071	3.18	2/2/98	HETEROCAPSA ROTUNDATA	478.27
WF981	F02	WF981071	3.18	2/2/98	SKELETONEMA COSTATUM GREV+CLEVE	1876.22
WF981	F02	WF981071	3.18	2/2/98	THALASSIONEMA NITZSCHIOIDES	944.75
WF981	F02	WF981071	3.18	2/2/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	64403.51
WF981	F02	WF981071	3.18	2/2/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	3804.38
WF981	F02	WF981071	3.18	2/2/98	CERATIUM TRIPOS	36.96
WF981	F02	WF981071	3.18	2/2/98	DISTEPHANUS SPECULUM	18.74
WF981	F27	WF9810B1	50.02	2/2/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	460.00
WF981	F27	WF9810B1	50.02	2/2/98	CERATIUM TRIPOS	19071.03
WF981	F27	WF9810B1	50.02	2/2/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	325.59
WF981	F27	WF9810B1	50.02	2/2/98	CRYPTOMONAS SP. GROUP 2 LENGTH >10 MICRONS	627.27
WF981	F27	WF9810B1	50.02	2/2/98	CYLINDROTHECA CLOSTERIUM	2308.49
WF981	F27	WF9810B1	50.02	2/2/98	DICTYOCHA SPECULUM	NA
WF981	F27	WF9810B1	50.02	2/2/98	GYRODINIUM SPIRALE	21936.36
WF981	F27	WF9810B1	50.02	2/2/98	PENNATE DIATOMS SP. GROUP 8 10-20 MICRONS LENGTH	NA
WF981	F27	WF9810B1	50.02	2/2/98	POROSIRA GLACIALIS	NA
WF981	F27	WF9810B1	50.02	2/2/98	PYRAMIMONAS SP. GROUP 1 10-20 MICRONS LENGTH	NA
WF981	F27	WF9810B1	50.02	2/2/98	THALASSIONEMA NITZSCHIOIDES	104.95
WF981	F27	WF9810B1	50.02	2/2/98	THALASSIOSIRA ROTULA	3699.66

Survey	Sta.	Sample Number	Depth (m)	Sampling Date	Plankton	Estimated Carbon Equivalence (ng Carbon/L)
WF981	F27	WF9810B1	50.02	2/2/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	30369.14
WF981	F27	WF9810B1	50.02	2/2/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	10779.08
WF981	F27	WF9810B1	50.02	2/2/98	CERATIUM LONGIPES	125.39
WF981	F27	WF9810B1	50.02	2/2/98	CERATIUM SPP.	22.09
WF981	F27	WF9810B1	50.02	2/2/98	CERATIUM TRIPOS	64.44
WF981	F27	WF9810B1	50.02	2/2/98	DISTEPHANUS SPECULUM	17.35
WF981	F27	WF9810B1	50.02	2/2/98	MESODINIUM RUBRUM	NA
WF981	F27	WF9810B3	3.61	2/2/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	920.00
WF981	F27	WF9810B3	3.61	2/2/98	CHAETOCEROS COMPRESSUS	7741.31
WF981	F27	WF9810B3	3.61	2/2/98	CHAETOCEROS SPP. (10-20UM)	NA
WF981	F27	WF9810B3	3.61	2/2/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	1562.82
WF981	F27	WF9810B3	3.61	2/2/98	CRYPTOMONAS SP. GROUP 2 LENGTH >10 MICRONS	1672.72
WF981	F27	WF9810B3	3.61	2/2/98	CYLINDROTHECA CLOSTERIUM	2885.62
WF981	F27	WF9810B3	3.61	2/2/98	DETONULA CONFERVACEA	962.11
WF981	F27	WF9810B3	3.61	2/2/98	DICTYOCHA SPECULUM	NA
WF981	F27	WF9810B3	3.61	2/2/98	EUTREPTIA/EUTREPTIELLA SPP.	NA
WF981	F27	WF9810B3	3.61	2/2/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	2160.25
WF981	F27	WF9810B3	3.61	2/2/98	HETEROCAPSA ROTUNDATA	159.38
WF981	F27	WF9810B3	3.61	2/2/98	HETEROCAPSA TRIQUETRA	11411.94
WF981	F27	WF9810B3	3.61	2/2/98	LAUDERIA ANNULATA	NA
WF981	F27	WF9810B3	3.61	2/2/98	PENNATE DIATOMS SP. GROUP 7 20-30 MICRONS LENGTH	NA
WF981	F27	WF9810B3	3.61	2/2/98	PROROCENTRUM MINIMUM	580.93
WF981	F27	WF9810B3	3.61	2/2/98	PYRAMIMONAS SP. GROUP 1 10-20 MICRONS LENGTH	NA
WF981	F27	WF9810B3	3.61	2/2/98	RHIZOLENIA DELICATULA	2560.66
WF981	F27	WF9810B3	3.61	2/2/98	SKELETONEMA COSTATUM GREV+CLEVE	962.17
WF981	F27	WF9810B3	3.61	2/2/98	THALASSIONEMA NITZSCHIOIDES	839.78
WF981	F27	WF9810B3	3.61	2/2/98	THALASSIOSIRA ROTULA	24966.72
WF981	F27	WF9810B3	3.61	2/2/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	61157.16
WF981	F27	WF9810B3	3.61	2/2/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	11413.15
WF981	F27	WF9810B3	3.61	2/2/98	CERATIUM LONGIPES	49.17
WF981	F27	WF9810B3	3.61	2/2/98	CERATIUM SPP.	12.99
WF981	F27	WF9810B3	3.61	2/2/98	CERATIUM TRIPOS	151.63
WF981	F27	WF9810B3	3.61	2/2/98	DICTYOCHA FIBULA	3.13
WF981	F27	WF9810B3	3.61	2/2/98	DISTEPHANUS SPECULUM	10.21
WF981	N16	WF981108	18.66	2/3/98	ACHNANTHES SPP.	267.03
WF981	N16	WF981108	18.66	2/3/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	602.18
WF981	N16	WF981108	18.66	2/3/98	CHAETOCEROS SPP. (10-20UM)	NA
WF981	N16	WF981108	18.66	2/3/98	CHAETOCEROS SPP. (<10UM)	250.12
WF981	N16	WF981108	18.66	2/3/98	CORETHRON CRIOPHILUM	9213.12
WF981	N16	WF981108	18.66	2/3/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	3360.05
WF981	N16	WF981108	18.66	2/3/98	CRYPTOMONAS SP. GROUP 2 LENGTH >10 MICRONS	1254.54
WF981	N16	WF981108	18.66	2/3/98	CYLINDROTHECA CLOSTERIUM	6925.48
WF981	N16	WF981108	18.66	2/3/98	DICTYOCHA SPECULUM	NA
WF981	N16	WF981108	18.66	2/3/98	EUTREPTIA/EUTREPTIELLA SPP.	NA
WF981	N16	WF981108	18.66	2/3/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	7128.81
WF981	N16	WF981108	18.66	2/3/98	GYRODINIUM SP. GROUP 1 5-20UM W 10-20UM L	2591.67
WF981	N16	WF981108	18.66	2/3/98	HETEROCAPSA ROTUNDATA	255.01
WF981	N16	WF981108	18.66	2/3/98	NITZSCHIA SPP.	779.89
WF981	N16	WF981108	18.66	2/3/98	PENNATE DIATOMS SP. GROUP 7 20-30 MICRONS LENGTH	NA
WF981	N16	WF981108	18.66	2/3/98	THALASSIONEMA NITZSCHIOIDES	1259.37

Survey	Sta.	Sample Number	Depth (m)	Sampling Date	Plankton	Estimated Carbon Equivalence (ng Carbon/L)
WF981	N16	WF981108	18.66	2/3/98	THALASSIOSIRA ROTULA	33288.96
WF981	N16	WF981108	18.66	2/3/98	THALASSIOSIRA SP. GROUP 3 10-20 MICRONS LENGTH	640.07
WF981	N16	WF981108	18.66	2/3/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	47752.85
WF981	N16	WF981108	18.66	2/3/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	4565.26
WF981	N16	WF981108	18.66	2/3/98	CERATIUM SPP.	80.55
WF981	N16	WF981108	18.66	2/3/98	CERATIUM TRIPOS	176.27
WF981	N16	WF981108	18.66	2/3/98	DISTEPHANUS SPECULUM	30.72
WF981	N16	WF981108	18.66	2/3/98	MESODINIUM RUBRUM	NA
WF981	N16	WF981108	18.66	2/3/98	PROTOPERIDINIUM DEPRESSUM	186.98
WF981	N16	WF98110A	4.08	2/3/98	CALYCOMONAS OVALIS	116.40
WF981	N16	WF98110A	4.08	2/3/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	2383.63
WF981	N16	WF98110A	4.08	2/3/98	CHAETOCEROS SPP. (10-20UM)	NA
WF981	N16	WF98110A	4.08	2/3/98	COCCONEIS SCUTELLUM EHRENB.	2328.37
WF981	N16	WF98110A	4.08	2/3/98	CORETHRON CRIOPHILUM	18426.24
WF981	N16	WF98110A	4.08	2/3/98	COSCINODISCUS SPP.	10767.92
WF981	N16	WF98110A	4.08	2/3/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	4004.72
WF981	N16	WF98110A	4.08	2/3/98	CRYPTOMONAS SP. GROUP 2 LENGTH >10 MICRONS	5018.16
WF981	N16	WF98110A	4.08	2/3/98	CYLINDROTHECA CLOSTERIUM	10619.08
WF981	N16	WF98110A	4.08	2/3/98	DICTYOCHA SPECULUM	NA
WF981	N16	WF98110A	4.08	2/3/98	EUTREPTIA/EUTREPTIELLA SPP.	NA
WF981	N16	WF98110A	4.08	2/3/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	8100.92
WF981	N16	WF98110A	4.08	2/3/98	GYRODINIUM SPIRALE	131649.74
WF981	N16	WF98110A	4.08	2/3/98	HETEROCAPSA ROTUNDATA	318.84
WF981	N16	WF98110A	4.08	2/3/98	PENNATE DIATOMS SP. GROUP 7 20-30 MICRONS LENGTH	NA
WF981	N16	WF98110A	4.08	2/3/98	THALASSIONEMA NITZSCHIOIDES	629.69
WF981	N16	WF98110A	4.08	2/3/98	THALASSIOSIRA ROTULA	22192.64
WF981	N16	WF98110A	4.08	2/3/98	THALASSIOSIRA SP. GROUP 4 20-30 MICRONS LENGTH	3992.34
WF981	N16	WF98110A	4.08	2/3/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	86080.79
WF981	N16	WF98110A	4.08	2/3/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	36141.63
WF981	N16	WF98110A	4.08	2/3/98	CERATIUM FUSUS	11.83
WF981	N16	WF98110A	4.08	2/3/98	CERATIUM LONGIPES	78.67
WF981	N16	WF98110A	4.08	2/3/98	CERATIUM SPP.	20.79
WF981	N16	WF98110A	4.08	2/3/98	CERATIUM TRIPOS	181.95
WF981	N16	WF98110A	4.08	2/3/98	DISTEPHANUS SPECULUM	15.37
WF981	N16	WF98110A	4.08	2/3/98	MESODINIUM RUBRUM	NA
WF981	N16	WF98110A	4.08	2/3/98	PROTOPERIDINIUM DEPRESSUM	193.01
WF981	F24	WF98112E	9.14	2/6/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	1505.45
WF981	F24	WF98112E	9.14	2/6/98	COCCONEIS SCUTELLUM EHRENB.	1552.25
WF981	F24	WF98112E	9.14	2/6/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	1237.23
WF981	F24	WF98112E	9.14	2/6/98	CRYPTOMONAS SP. GROUP 2 LENGTH >10 MICRONS	2927.26
WF981	F24	WF98112E	9.14	2/6/98	CYLINDROTHECA CLOSTERIUM	8656.85
WF981	F24	WF98112E	9.14	2/6/98	DICTYOCHA SPECULUM	NA
WF981	F24	WF98112E	9.14	2/6/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	1080.12
WF981	F24	WF98112E	9.14	2/6/98	GYRODINIUM SPIRALE	87766.50
WF981	F24	WF98112E	9.14	2/6/98	NITZSCHIA SPP.	1300.13
WF981	F24	WF98112E	9.14	2/6/98	PARALIA SULCATA	1002.71
WF981	F24	WF98112E	9.14	2/6/98	PENNATE DIATOMS SP. GROUP 8 10-20 MICRONS LENGTH	NA
WF981	F24	WF98112E	9.14	2/6/98	POROSIRA GLACIALIS	NA
WF981	F24	WF98112E	9.14	2/6/98	SKELETONEMA COSTATUM GREV+CLEVE	1924.33
WF981	F24	WF98112E	9.14	2/6/98	THALASSIONEMA NITZSCHIOIDES	787.11

Appendix K

Survey	Sta.	Sample Number	Depth (m)	Sampling Date	Plankton	Estimated Carbon Equivalence (ng Carbon/L)
WF981	F24	WF98112E	9.14	2/6/98	THALASSIOSIRA NORDENSKIOLDII CLEVE	308.81
WF981	F24	WF98112E	9.14	2/6/98	THALASSIOSIRA ROTULA	49933.44
WF981	F24	WF98112E	9.14	2/6/98	THALASSIOSIRA SP. GROUP 3 10-20 MICRONS LENGTH	3734.64
WF981	F24	WF98112E	9.14	2/6/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	77074.77
WF981	F24	WF98112E	9.14	2/6/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	7608.76
WF981	F24	WF98112E	9.14	2/6/98	CERATIUM FUSUS	7.77
WF981	F24	WF98112E	9.14	2/6/98	CERATIUM TRIPOS	19.90
WF981	F24	WF98112E	9.14	2/6/98	DISTEPHANUS SPECULUM	15.13
WF981	F24	WF98112E	9.14	2/6/98	MESODINIUM RUBRUM	NA
WF981	F24	WF981130	2.50	2/6/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	815.45
WF981	F24	WF981130	2.50	2/6/98	CHAETOCEROS SPP. (10-20UM)	NA
WF981	F24	WF981130	2.50	2/6/98	COCCONEIS SCUTELLUM EHRENB.	1164.19
WF981	F24	WF981130	2.50	2/6/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	2930.28
WF981	F24	WF981130	2.50	2/6/98	CRYPTOMONAS SP. GROUP 2 LENGTH >10 MICRONS	2822.72
WF981	F24	WF981130	2.50	2/6/98	CYLINDROTHECA CLOSTERIUM	6925.48
WF981	F24	WF981130	2.50	2/6/98	EUTREPTIA/EUTREPTIELLA SPP.	NA
WF981	F24	WF981130	2.50	2/6/98	GRAMMATOPHORA MARINA	728.57
WF981	F24	WF981130	2.50	2/6/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	1620.18
WF981	F24	WF981130	2.50	2/6/98	GYRODINIUM SPIRALE	65824.87
WF981	F24	WF981130	2.50	2/6/98	HETEROCAPSA ROTUNDATA	318.84
WF981	F24	WF981130	2.50	2/6/98	ODONTELLA AURITA	4378.14
WF981	F24	WF981130	2.50	2/6/98	PENNATE DIATOMS SP. GROUP 7 20-30 MICRONS LENGTH	NA
WF981	F24	WF981130	2.50	2/6/98	POROSIRA GLACIALIS	NA
WF981	F24	WF981130	2.50	2/6/98	PYRAMIMONAS SP. GROUP 1 10-20 MICRONS LENGTH	NA
WF981	F24	WF981130	2.50	2/6/98	SKELETONEMA COSTATUM GREV+CLEVE	1443.25
WF981	F24	WF981130	2.50	2/6/98	THALASSIONEMA NITZSCHIOIDES	1889.06
WF981	F24	WF981130	2.50	2/6/98	THALASSIOSIRA ROTULA	88791.87
WF981	F24	WF981130	2.50	2/6/98	THALASSIOSIRA SP. GROUP 3 10-20 MICRONS LENGTH	1600.56
WF981	F24	WF981130	2.50	2/6/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	56235.26
WF981	F24	WF981130	2.50	2/6/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	21875.20
WF981	F24	WF981130	2.50	2/6/98	CERATIUM FURCA	NA
WF981	F24	WF981130	2.50	2/6/98	CERATIUM FUSUS	12.57
WF981	F24	WF981130	2.50	2/6/98	CERATIUM TRIPOS	64.44
WF981	F24	WF981130	2.50	2/6/98	DISTEPHANUS SPECULUM	12.25
WF981	F24	WF981130	2.50	2/6/98	MESODINIUM RUBRUM	NA
WF981	F24	WF981130	2.50	2/6/98	PROTOPERIDINIUM DEPRESSUM	205.07
WF981	F25	WF981146	6.88	2/6/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	501.82
WF981	F25	WF981146	6.88	2/6/98	CHAETOCEROS COMPRESSUS	15482.63
WF981	F25	WF981146	6.88	2/6/98	COCCONEIS SCUTELLUM EHRENB.	1552.25
WF981	F25	WF981146	6.88	2/6/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	1823.29
WF981	F25	WF981146	6.88	2/6/98	CRYPTOMONAS SP. GROUP 2 LENGTH >10 MICRONS	418.18
WF981	F25	WF981146	6.88	2/6/98	CYANOBACTERIA SPP.	NA
WF981	F25	WF981146	6.88	2/6/98	CYLINDROTHECA CLOSTERIUM	4618.10
WF981	F25	WF981146	6.88	2/6/98	DICTYOCHA SPECULUM	NA
WF981	F25	WF981146	6.88	2/6/98	HETEROCAPSA ROTUNDATA	212.56
WF981	F25	WF981146	6.88	2/6/98	LICMOPHORA SPP.	345.41
WF981	F25	WF981146	6.88	2/6/98	ODONTELLA AURITA	4378.14
WF981	F25	WF981146	6.88	2/6/98	PENNATE DIATOMS SP. GROUP 7 20-30 MICRONS LENGTH	NA
WF981	F25	WF981146	6.88	2/6/98	PROTOPERIDINIUM SPP.	11913.24
WF981	F25	WF981146	6.88	2/6/98	SCENESDESMUS QUADRICAUDA	44.45

Survey	Sta.	Sample Number	Depth (m)	Sampling Date	Plankton	Estimated Carbon Equivalence (ng Carbon/L)
WF981	F25	WF981146	6.88	2/6/98	SKELETONEMA COSTATUM GREV+CLEVE	2452.94
WF981	F25	WF981146	6.88	2/6/98	THALASSIONEMA NITZSCHIOIDES	1889.06
WF981	F25	WF981146	6.88	2/6/98	THALASSIOSIRA ROTULA	61029.76
WF981	F25	WF981146	6.88	2/6/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	80006.96
WF981	F25	WF981146	6.88	2/6/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	20290.04
WF981	F25	WF981146	6.88	2/6/98	CERATIUM FUSUS	12.57
WF981	F25	WF981146	6.88	2/6/98	DICTYOCHA FIBULA	1.77
WF981	F25	WF981146	6.88	2/6/98	DISTEPHANUS SPECULUM	4.08
WF981	F25	WF981146	6.88	2/6/98	MESODINIUM RUBRUM	NA
WF981	F25	WF981146	6.88	2/6/98	PROROCENTRUM MICANS	5.25
WF981	F25	WF981148	3.10	2/6/98	ASTERIONELLOPSIS GLACIALIS	220.63
WF981	F25	WF981148	3.10	2/6/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	1191.81
WF981	F25	WF981148	3.10	2/6/98	CHAETOCEROS DECIPIENS	11244.21
WF981	F25	WF981148	3.10	2/6/98	CHAETOCEROS SPP. (<10UM)	625.31
WF981	F25	WF981148	3.10	2/6/98	COCCONEIS SCUTELLUM EHRENB.	465.56
WF981	F25	WF981148	3.10	2/6/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	4395.42
WF981	F25	WF981148	3.10	2/6/98	CRYPTOMONAS SP. GROUP 2 LENGTH >10 MICRONS	940.91
WF981	F25	WF981148	3.10	2/6/98	CYLINDROTHECA CLOSTERIUM	3693.59
WF981	F25	WF981148	3.10	2/6/98	EUTREPTIA/EUTREPTIELLA SPP.	NA
WF981	F25	WF981148	3.10	2/6/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	810.09
WF981	F25	WF981148	3.10	2/6/98	GYRODINIUM SPIRALE	26323.63
WF981	F25	WF981148	3.10	2/6/98	NITZSCHIA SPP.	389.95
WF981	F25	WF981148	3.10	2/6/98	PARALIA SULCATA	1604.34
WF981	F25	WF981148	3.10	2/6/98	PENNATE DIATOMS SP. GROUP 7 20-30 MICRONS LENGTH	NA
WF981	F25	WF981148	3.10	2/6/98	POROSIRA GLACIALIS	NA
WF981	F25	WF981148	3.10	2/6/98	PYRAMIMONAS SP. GROUP 1 10-20 MICRONS LENGTH	NA
WF981	F25	WF981148	3.10	2/6/98	RHIZOLENIA FRAGILISSIMA	2004.91
WF981	F25	WF981148	3.10	2/6/98	SKELETONEMA COSTATUM GREV+CLEVE	2712.66
WF981	F25	WF981148	3.10	2/6/98	THALASSIONEMA NITZSCHIOIDES	629.69
WF981	F25	WF981148	3.10	2/6/98	THALASSIOSIRA ROTULA	13315.58
WF981	F25	WF981148	3.10	2/6/98	THALASSIOSIRA SP. GROUP 4 20-30 MICRONS LENGTH	3193.10
WF981	F25	WF981148	3.10	2/6/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	47438.68
WF981	F25	WF981148	3.10	2/6/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	7608.76
WF981	F25	WF981148	3.10	2/6/98	DISTEPHANUS SPECULUM	10.81
WF981	F31	WF981155	7.00	2/6/98	ASTERIONELLOPSIS GLACIALIS	242.69
WF981	F31	WF981155	7.00	2/6/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	3173.99
WF981	F31	WF981155	7.00	2/6/98	CHAETOCEROS SPP. (10-20UM)	NA
WF981	F31	WF981155	7.00	2/6/98	CHAETOCEROS SPP. (<10UM)	1031.76
WF981	F31	WF981155	7.00	2/6/98	CHOANOFLAGELLATE SPP.	338.61
WF981	F31	WF981155	7.00	2/6/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	7950.83
WF981	F31	WF981155	7.00	2/6/98	CRYPTOMONAS SP. GROUP 2 LENGTH >10 MICRONS	1379.99
WF981	F31	WF981155	7.00	2/6/98	CYLINDROTHECA CLOSTERIUM	4570.82
WF981	F31	WF981155	7.00	2/6/98	DICTYOCHA SPECULUM	NA
WF981	F31	WF981155	7.00	2/6/98	EUTREPTIA/EUTREPTIELLA SPP.	NA
WF981	F31	WF981155	7.00	2/6/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	7128.81
WF981	F31	WF981155	7.00	2/6/98	GYRODINIUM SPIRALE	28955.99
WF981	F31	WF981155	7.00	2/6/98	HETEROCAPSA ROTUNDATA	350.73
WF981	F31	WF981155	7.00	2/6/98	NITZSCHIA SPP.	428.94
WF981	F31	WF981155	7.00	2/6/98	PENNATE DIATOMS SP. GROUP 7 20-30 MICRONS LENGTH	NA

Survey	Sta.	Sample Number	Depth (m)	Sampling Date	Plankton	Estimated Carbon Equivalence (ng Carbon/L)
WF981	F31	WF981155	7.00	2/6/98	POROSIRA GLACIALIS	NA
WF981	F31	WF981155	7.00	2/6/98	PYRAMIMONAS SP. GROUP 1 10-20 MICRONS LENGTH	NA
WF981	F31	WF981155	7.00	2/6/98	SKELETONEMA COSTATUM GREV+CLEVE	3364.85
WF981	F31	WF981155	7.00	2/6/98	THALASSIONEMA NITZSCHIOIDES	831.18
WF981	F31	WF981155	7.00	2/6/98	THALASSIOSIRA ROTULA	36617.86
WF981	F31	WF981155	7.00	2/6/98	THALASSIOSIRA SP. GROUP 3 10-20 MICRONS LENGTH	2112.23
WF981	F31	WF981155	7.00	2/6/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	85012.64
WF981	F31	WF981155	7.00	2/6/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	23016.51
WF981	F31	WF981155	7.00	2/6/98	CERATIUM TRIPOS	29.38
WF981	F31	WF981155	7.00	2/6/98	DISTEPHANUS SPECULUM	9.31
WF981	F31	WF981156	2.94	2/6/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	1839.99
WF981	F31	WF981156	2.94	2/6/98	CHAETOCEROS SPP. (10-20UM)	NA
WF981	F31	WF981156	2.94	2/6/98	CHAETOCEROS SPP.(<10UM)	416.87
WF981	F31	WF981156	2.94	2/6/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	5339.62
WF981	F31	WF981156	2.94	2/6/98	CRYPTOMONAS SP. GROUP 2 LENGTH >10 MICRONS	836.36
WF981	F31	WF981156	2.94	2/6/98	CYLINDROTHECA CLOSTERIUM	5540.39
WF981	F31	WF981156	2.94	2/6/98	GRAMMATOPHORA MARINA	291.36
WF981	F31	WF981156	2.94	2/6/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	4320.49
WF981	F31	WF981156	2.94	2/6/98	GYRODINIUM SP. GROUP 1 5-20UM W 10-20UM L	1080.12
WF981	F31	WF981156	2.94	2/6/98	PENNATE DIATOMS SP. GROUP 7 20-30 MICRONS LENGTH	NA
WF981	F31	WF981156	2.94	2/6/98	PENNATE DIATOMS SP. GROUP 8 10-20 MICRONS LENGTH	NA
WF981	F31	WF981156	2.94	2/6/98	PLEUROSIGMA SPP.	16938.16
WF981	F31	WF981156	2.94	2/6/98	PSEUDONITZSCHIA PUNGENS	606.62
WF981	F31	WF981156	2.94	2/6/98	PYRAMIMONAS SP. GROUP 1 10-20 MICRONS LENGTH	NA
WF981	F31	WF981156	2.94	2/6/98	RHIZOLENIA SETIGERA	4221.46
WF981	F31	WF981156	2.94	2/6/98	SKELETONEMA COSTATUM GREV+CLEVE	4848.16
WF981	F31	WF981156	2.94	2/6/98	THALASSIONEMA NITZSCHIOIDES	1133.43
WF981	F31	WF981156	2.94	2/6/98	THALASSIOSIRA ROTULA	66593.90
WF981	F31	WF981156	2.94	2/6/98	THALASSIOSIRA SP. GROUP 3 10-20 MICRONS LENGTH	1760.19
WF981	F31	WF981156	2.94	2/6/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	54873.89
WF981	F31	WF981156	2.94	2/6/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	25362.55
WF981	F31	WF981156	2.94	2/6/98	DISTEPHANUS SPECULUM	9.73
WF981	F30	WF981162	5.29	2/6/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	1758.89
WF981	F30	WF981162	5.29	2/6/98	CHAETOCEROS SPP. (10-20UM)	NA
WF981	F30	WF981162	5.29	2/6/98	CHAETOCEROS SPP.(<10UM)	208.74
WF981	F30	WF981162	5.29	2/6/98	CHOANOFAGELLATE SPP.	205.51
WF981	F30	WF981162	5.29	2/6/98	COCCONEIS SCUTELLUM EHRENB.	465.60
WF981	F30	WF981162	5.29	2/6/98	COSCIINODISCUS RADIATUS	7252.05
WF981	F30	WF981162	5.29	2/6/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	6455.91
WF981	F30	WF981162	5.29	2/6/98	CRYPTOMONAS SP. GROUP 2 LENGTH >10 MICRONS	7119.32
WF981	F30	WF981162	5.29	2/6/98	CYLINDROTHECA CLOSTERIUM	3232.13
WF981	F30	WF981162	5.29	2/6/98	EUTREPTIA/EUTREPTIELLA SPP.	NA
WF981	F30	WF981162	5.29	2/6/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	8653.44
WF981	F30	WF981162	5.29	2/6/98	PARALIA SULCATA	2406.68
WF981	F30	WF981162	5.29	2/6/98	PENNATE DIATOMS SP. GROUP 7 20-30 MICRONS LENGTH	NA
WF981	F30	WF981162	5.29	2/6/98	PENNATE DIATOMS SP. GROUP 8 10-20 MICRONS LENGTH	NA
WF981	F30	WF981162	5.29	2/6/98	PLEUROSIGMA SPP.	20322.37

Survey	Sta.	Sample Number	Depth (m)	Sampling Date	Plankton	Estimated Carbon Equivalence (ng Carbon/L)
WF981	F30	WF981162	5.29	2/6/98	PROTOPERIDINIUM SPP.	9531.27
WF981	F30	WF981162	5.29	2/6/98	PYRAMIMONAS SP. GROUP 1 10-20 MICRONS LENGTH	NA
WF981	F30	WF981162	5.29	2/6/98	SKELETONEMA COSTATUM GREV+CLEVE	2828.29
WF981	F30	WF981162	5.29	2/6/98	THALASSIONEMA NITZSCHIOIDES	251.89
WF981	F30	WF981162	5.29	2/6/98	THALASSIOSIRA ROTULA	26633.09
WF981	F30	WF981162	5.29	2/6/98	THALASSIOSIRA SP. GROUP 3 10-20 MICRONS LENGTH	1280.23
WF981	F30	WF981162	5.29	2/6/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	52226.35
WF981	F30	WF981162	5.29	2/6/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	34288.82
WF981	F30	WF981162	5.29	2/6/98	DICTYOCHA FIBULA	1.04
WF981	F30	WF981162	5.29	2/6/98	DINOPHYSIS ACUMINATA	0.94
WF981	F30	WF981162	5.29	2/6/98	DISTEPHANUS SPECULUM	5.40
WF981	F30	WF981163	3.06	2/6/98	ASTERIONELLA FORMOSA	314.60
WF981	F30	WF981163	3.06	2/6/98	CALYCOMONAS OVALIS	77.60
WF981	F30	WF981163	3.06	2/6/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	3178.17
WF981	F30	WF981163	3.06	2/6/98	CHAETOCEROS DECIPIENS	29984.57
WF981	F30	WF981163	3.06	2/6/98	COSCIDODISCUS RADIATUS	14503.05
WF981	F30	WF981163	3.06	2/6/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	3581.45
WF981	F30	WF981163	3.06	2/6/98	CRYPTOMONAS SP. GROUP 2 LENGTH >10 MICRONS	1672.72
WF981	F30	WF981163	3.06	2/6/98	CYANOBACTERIA SPP.	NA
WF981	F30	WF981163	3.06	2/6/98	CYLINDROTHECA CLOSTERIUM	1846.80
WF981	F30	WF981163	3.06	2/6/98	EUTREPTIA/EUTREPTIELLA SPP.	NA
WF981	F30	WF981163	3.06	2/6/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	3240.37
WF981	F30	WF981163	3.06	2/6/98	GYRODINIUM SP. GROUP 1 5-20UM W 10-20UM L	323.96
WF981	F30	WF981163	3.06	2/6/98	HETEROCAPSA ROTUNDATA	127.51
WF981	F30	WF981163	3.06	2/6/98	PENNATE DIATOMS SP. GROUP 7 20-30 MICRONS LENGTH	NA
WF981	F30	WF981163	3.06	2/6/98	PENNATE DIATOMS SP. GROUP 8 10-20 MICRONS LENGTH	NA
WF981	F30	WF981163	3.06	2/6/98	PLEUROSIGMA SPP.	5080.23
WF981	F30	WF981163	3.06	2/6/98	PROTOPERIDINIUM SPP.	28591.77
WF981	F30	WF981163	3.06	2/6/98	PSEUDONITZSCHIA DELICATISSIMA	421.50
WF981	F30	WF981163	3.06	2/6/98	SCENESDESMUS QUADRICAUDA	71.12
WF981	F30	WF981163	3.06	2/6/98	SKELETONEMA COSTATUM GREV+CLEVE	2236.50
WF981	F30	WF981163	3.06	2/6/98	THALASSIONEMA NITZSCHIOIDES	1101.95
WF981	F30	WF981163	3.06	2/6/98	THALASSIOSIRA ROTULA	13315.58
WF981	F30	WF981163	3.06	2/6/98	THALASSIOSIRA SP. GROUP 3 10-20 MICRONS LENGTH	2080.23
WF981	F30	WF981163	3.06	2/6/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	51103.93
WF981	F30	WF981163	3.06	2/6/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	30435.06
WF981	F30	WF981163	3.06	2/6/98	DISTEPHANUS SPECULUM	5.16
WF981	N04	WF981173	20.23	2/8/98	CALYCOMONAS OVALIS	46.56
WF981	N04	WF981173	20.23	2/8/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	1104.00
WF981	N04	WF981173	20.23	2/8/98	CHAETOCEROS SPP.(<10UM)	250.12
WF981	N04	WF981173	20.23	2/8/98	COSCIDODISCUS RADIATUS	10877.29
WF981	N04	WF981173	20.23	2/8/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	3438.20
WF981	N04	WF981173	20.23	2/8/98	CRYPTOMONAS SP. GROUP 2 LENGTH >10 MICRONS	1756.36
WF981	N04	WF981173	20.23	2/8/98	CYLINDROTHECA CLOSTERIUM	3693.59
WF981	N04	WF981173	20.23	2/8/98	DICTYOCHA SPECULUM	NA
WF981	N04	WF981173	20.23	2/8/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	1619.79
WF981	N04	WF981173	20.23	2/8/98	GYRODINIUM SP. GROUP 1 5-20UM W 10-20UM L	1944.22
WF981	N04	WF981173	20.23	2/8/98	HETEROCAPSA ROTUNDATA	127.54
WF981	N04	WF981173	20.23	2/8/98	HETEROCAPSA TRIQUETRA	570.46

Survey	Sta.	Sample Number	Depth (m)	Sampling Date	Plankton	Estimated Carbon Equivalence (ng Carbon/L)
WF981	N04	WF981173	20.23	2/8/98	PENNATE DIATOMS SP. GROUP 8 10-20 MICRONS LENGTH	NA
WF981	N04	WF981173	20.23	2/8/98	PROTOPERIDINIUM BIPES	787.09
WF981	N04	WF981173	20.23	2/8/98	PYRAMIMONAS SP. GROUP 1 10-20 MICRONS LENGTH	NA
WF981	N04	WF981173	20.23	2/8/98	SKELETONEMA COSTATUM GREV+CLEVE	288.58
WF981	N04	WF981173	20.23	2/8/98	THALASSIOSIRA ROTULA	18863.74
WF981	N04	WF981173	20.23	2/8/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	29028.70
WF981	N04	WF981173	20.23	2/8/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	15978.41
WF981	N04	WF981173	20.23	2/8/98	CERATIUM FURCA	NA
WF981	N04	WF981173	20.23	2/8/98	CERATIUM LONGIPES	152.43
WF981	N04	WF981173	20.23	2/8/98	CERATIUM SPP.	20.14
WF981	N04	WF981173	20.23	2/8/98	CERATIUM TRIPOS	58.76
WF981	N04	WF981173	20.23	2/8/98	DINOPHYSIS ACUMINATA	1.46
WF981	N04	WF981173	20.23	2/8/98	DISTEPHANUS SPECULUM	15.82
WF981	N04	WF981173	20.23	2/8/98	MESODINIUM RUBRUM	NA
WF981	N04	WF981173	20.23	2/8/98	PROROCENTRUM MICANS	2.40
WF981	N04	WF981175	4.03	2/8/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	1191.81
WF981	N04	WF981175	4.03	2/8/98	CHAETOCEROS SPP. (10-20UM)	NA
WF981	N04	WF981175	4.03	2/8/98	CHAETOCEROS SPP.(<10UM)	937.96
WF981	N04	WF981175	4.03	2/8/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	4541.93
WF981	N04	WF981175	4.03	2/8/98	CRYPTOMONAS SP. GROUP 2 LENGTH >10 MICRONS	627.27
WF981	N04	WF981175	4.03	2/8/98	CYLINDROTHECA CLOSTERIUM	7848.88
WF981	N04	WF981175	4.03	2/8/98	DICTYOCHA SPECULUM	NA
WF981	N04	WF981175	4.03	2/8/98	EUTREPTIA/EUTREPTIELLA SPP.	NA
WF981	N04	WF981175	4.03	2/8/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	10531.19
WF981	N04	WF981175	4.03	2/8/98	GYRODINIUM SPIRALE	78970.89
WF981	N04	WF981175	4.03	2/8/98	HETEROCAPSA ROTUNDATA	159.42
WF981	N04	WF981175	4.03	2/8/98	NITZSCHIA SPP.	389.95
WF981	N04	WF981175	4.03	2/8/98	PENNATE DIATOMS SP. GROUP 7 20-30 MICRONS LENGTH	NA
WF981	N04	WF981175	4.03	2/8/98	PYRAMIMONAS SP. GROUP 1 10-20 MICRONS LENGTH	NA
WF981	N04	WF981175	4.03	2/8/98	SKELETONEMA COSTATUM GREV+CLEVE	981.17
WF981	N04	WF981175	4.03	2/8/98	THALASSIONEMA NITZSCHIOIDES	503.75
WF981	N04	WF981175	4.03	2/8/98	THALASSIOSIRA ROTULA	26631.17
WF981	N04	WF981175	4.03	2/8/98	THALASSIOSIRA SP. GROUP 4 20-30 MICRONS LENGTH	798.28
WF981	N04	WF981175	4.03	2/8/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	45553.70
WF981	N04	WF981175	4.03	2/8/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	9510.96
WF981	N04	WF981175	4.03	2/8/98	CERATIUM TRIPOS	130.78
WF981	N04	WF981175	4.03	2/8/98	DINOPHYSIS ACUMINATA	4.35
WF981	N04	WF981175	4.03	2/8/98	DISTEPHANUS SPECULUM	34.53
WF981	N04	WF981175	4.03	2/8/98	MESODINIUM RUBRUM	NA
WF981	N18	WF981184	10.89	2/8/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	120.44
WF981	N18	WF981184	10.89	2/8/98	CHAETOCEROS BOREALIS	709.39
WF981	N18	WF981184	10.89	2/8/98	CHAETOCEROS SPP. (10-20UM)	NA
WF981	N18	WF981184	10.89	2/8/98	CHAETOCEROS SPP.(<10UM)	75.04
WF981	N18	WF981184	10.89	2/8/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	922.06
WF981	N18	WF981184	10.89	2/8/98	CRYPTOMONAS SP. GROUP 2 LENGTH >10 MICRONS	100.36
WF981	N18	WF981184	10.89	2/8/98	CYLINDROTHECA CLOSTERIUM	1846.80
WF981	N18	WF981184	10.89	2/8/98	EUTREPTIA/EUTREPTIELLA SPP.	NA
WF981	N18	WF981184	10.89	2/8/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	648.07
WF981	N18	WF981184	10.89	2/8/98	GYRODINIUM SP. GROUP 1 5-20UM W 10-20UM L	259.23

Survey	Sta.	Sample Number	Depth (m)	Sampling Date	Plankton	Estimated Carbon Equivalence (ng Carbon/L)
WF981	N18	WF981184	10.89	2/8/98	GYRODINIUM SPIRALE	10531.98
WF981	N18	WF981184	10.89	2/8/98	PENNATE DIATOMS SP. GROUP 8 10-20 MICRONS LENGTH	NA
WF981	N18	WF981184	10.89	2/8/98	PLEUROSIGMA SPP.	423.35
WF981	N18	WF981184	10.89	2/8/98	POROSIRA GLACIALIS	NA
WF981	N18	WF981184	10.89	2/8/98	PYRAMIMONAS SP. GROUP 1 10-20 MICRONS LENGTH	NA
WF981	N18	WF981184	10.89	2/8/98	RHIZOSOLENIA FRAGILISSIMA	501.23
WF981	N18	WF981184	10.89	2/8/98	THALASSIONEMA NITZSCHIOIDES	209.90
WF981	N18	WF981184	10.89	2/8/98	THALASSIOSIRA ROTULA	3698.77
WF981	N18	WF981184	10.89	2/8/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	6660.27
WF981	N18	WF981184	10.89	2/8/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	3195.68
WF981	N18	WF981184	10.89	2/8/98	ATHECATE DINOFLAGELLATE	NA
WF981	N18	WF981184	10.89	2/8/98	CERATIUM LONGIPES	99.57
WF981	N18	WF981184	10.89	2/8/98	CERATIUM SPP.	17.54
WF981	N18	WF981184	10.89	2/8/98	CERATIUM TRIPOS	76.76
WF981	N18	WF981184	10.89	2/8/98	DINOPHYSIS ACUMINATA	1.28
WF981	N18	WF981184	10.89	2/8/98	DISTEPHANUS SPECULUM	21.89
WF981	N18	WF981184	10.89	2/8/98	MESODINIUM RUBRUM	NA
WF981	N18	WF981184	10.89	2/8/98	PROROCENTRUM GRACILE	0.61
WF981	N18	WF981186	1.13	2/8/98	AMPHIDIUM OPERCULATUM	NA
WF981	N18	WF981186	1.13	2/8/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	1104.00
WF981	N18	WF981186	1.13	2/8/98	CHAETOCEROS SPP. (10-20UM)	NA
WF981	N18	WF981186	1.13	2/8/98	CHAETOCEROS SPP. (<10UM)	375.18
WF981	N18	WF981186	1.13	2/8/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	3789.83
WF981	N18	WF981186	1.13	2/8/98	CRYPTOMONAS SP. GROUP 2 LENGTH >10 MICRONS	1003.63
WF981	N18	WF981186	1.13	2/8/98	CYLINDROTHECA CLOSTERIUM	10388.23
WF981	N18	WF981186	1.13	2/8/98	DICTYOCHA SPECULUM	NA
WF981	N18	WF981186	1.13	2/8/98	EUTREPTIA/EUTREPTIELLA SPP.	NA
WF981	N18	WF981186	1.13	2/8/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	8424.96
WF981	N18	WF981186	1.13	2/8/98	NITZSCHIA SPP.	243.72
WF981	N18	WF981186	1.13	2/8/98	PARALIA SULCATA	1754.75
WF981	N18	WF981186	1.13	2/8/98	PENNATE DIATOMS SP. GROUP 8 10-20 MICRONS LENGTH	NA
WF981	N18	WF981186	1.13	2/8/98	SKELETONEMA COSTATUM GREV+CLEVE	721.45
WF981	N18	WF981186	1.13	2/8/98	THALASSIONEMA NITZSCHIOIDES	708.40
WF981	N18	WF981186	1.13	2/8/98	THALASSIOSIRA ROTULA	18031.52
WF981	N18	WF981186	1.13	2/8/98	THALASSIOSIRA SP. GROUP 4 20-30 MICRONS LENGTH	5488.15
WF981	N18	WF981186	1.13	2/8/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	22996.77
WF981	N18	WF981186	1.13	2/8/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	23587.17
WF981	N18	WF981186	1.13	2/8/98	ATHECATE DINOFLAGELLATE	NA
WF981	N18	WF981186	1.13	2/8/98	CERATIUM FURCA	NA
WF981	N18	WF981186	1.13	2/8/98	CERATIUM LONGIPES	61.46
WF981	N18	WF981186	1.13	2/8/98	CERATIUM TRIPOS	213.23
WF981	N18	WF981186	1.13	2/8/98	DICTYOCHA FIBULA	1.30
WF981	N18	WF981186	1.13	2/8/98	DINOPHYSIS ACUMINATA	4.72
WF981	N18	WF981186	1.13	2/8/98	DISTEPHANUS SPECULUM	39.03
WF981	N18	WF981186	1.13	2/8/98	MESODINIUM RUBRUM	NA
WF981	N18	WF981186	1.13	2/8/98	PROROCENTRUM MICANS	1.93
WF981	F23	WF981196	11.97	2/8/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	1254.54
WF981	F23	WF981196	11.97	2/8/98	CHAETOCEROS SPP. (<10UM)	62.52
WF981	F23	WF981196	11.97	2/8/98	COCCONEIS SCUTELLUM EHRENB.	465.56
WF981	F23	WF981196	11.97	2/8/98	CORETHRON CRIOPHILUM	18426.24

Survey	Sta.	Sample Number	Depth (m)	Sampling Date	Plankton	Estimated Carbon Equivalence (ng Carbon/L)
WF981	F23	WF981196	11.97	2/8/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	325.59
WF981	F23	WF981196	11.97	2/8/98	CRYPTOMONAS SP. GROUP 2 LENGTH >10 MICRONS	836.36
WF981	F23	WF981196	11.97	2/8/98	CYLINDROTHECA CLOSTERIUM	6463.78
WF981	F23	WF981196	11.97	2/8/98	DICTYOCHA SPECULUM	NA
WF981	F23	WF981196	11.97	2/8/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	1080.12
WF981	F23	WF981196	11.97	2/8/98	GYRODINIUM SP. GROUP 1 5-20UM W 10-20UM L	1080.12
WF981	F23	WF981196	11.97	2/8/98	GYROSIGMA SPP.	2540.11
WF981	F23	WF981196	11.97	2/8/98	NITZSCHIA SPP.	779.89
WF981	F23	WF981196	11.97	2/8/98	PENNATE DIATOMS SP. GROUP 8 10-20 MICRONS LENGTH	NA
WF981	F23	WF981196	11.97	2/8/98	PYRAMIMONAS SP. GROUP 1 10-20 MICRONS LENGTH	NA
WF981	F23	WF981196	11.97	2/8/98	RHIZOLENIA SETIGERA	4221.46
WF981	F23	WF981196	11.97	2/8/98	SKELETONEMA COSTATUM GREV+CLEVE	1385.19
WF981	F23	WF981196	11.97	2/8/98	THALASSIONEMA NITZSCHIOIDES	629.69
WF981	F23	WF981196	11.97	2/8/98	THALASSIOSIRA ROTULA	39946.75
WF981	F23	WF981196	11.97	2/8/98	THALASSIOSIRA SP. GROUP 4 20-30 MICRONS LENGTH	5587.93
WF981	F23	WF981196	11.97	2/8/98	THALASSIOTHRIX LONGISSIMA	NA
WF981	F23	WF981196	11.97	2/8/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	61576.04
WF981	F23	WF981196	11.97	2/8/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	21558.17
WF981	F23	WF981196	11.97	2/8/98	DICTYOCHA FIBULA	3.86
WF981	F23	WF981196	11.97	2/8/98	DISTEPHANUS SPECULUM	17.77
WF981	F23	WF981196	11.97	2/8/98	PROROCENTRUM MICANS	1.55
WF981	F23	WF981198	3.24	2/8/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	376.36
WF981	F23	WF981198	3.24	2/8/98	CHAETOCEROS DECIPIENS	4496.61
WF981	F23	WF981198	3.24	2/8/98	COCCONEIS SCUTELLUM EHRENB.	465.56
WF981	F23	WF981198	3.24	2/8/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	293.03
WF981	F23	WF981198	3.24	2/8/98	CRYPTOMONAS SP. GROUP 2 LENGTH >10 MICRONS	313.64
WF981	F23	WF981198	3.24	2/8/98	CYLINDROTHECA CLOSTERIUM	3231.89
WF981	F23	WF981198	3.24	2/8/98	EUTREPTIA/EUTREPTIELLA SPP.	NA
WF981	F23	WF981198	3.24	2/8/98	GYROSIGMA SPP.	2540.11
WF981	F23	WF981198	3.24	2/8/98	PARALIA SULCATA	2005.42
WF981	F23	WF981198	3.24	2/8/98	PENNATE DIATOMS SP. GROUP 8 10-20 MICRONS LENGTH	NA
WF981	F23	WF981198	3.24	2/8/98	PLEUROSIGMA SPP.	5080.23
WF981	F23	WF981198	3.24	2/8/98	PROTOPERIDINIUM SPP.	9530.59
WF981	F23	WF981198	3.24	2/8/98	SKELETONEMA COSTATUM GREV+CLEVE	1442.90
WF981	F23	WF981198	3.24	2/8/98	THALASSIOSIRA ROTULA	55481.60
WF981	F23	WF981198	3.24	2/8/98	THALASSIOSIRA SP. GROUP 3 10-20 MICRONS LENGTH	1120.12
WF981	F23	WF981198	3.24	2/8/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	53564.87
WF981	F23	WF981198	3.24	2/8/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	27581.77
WF981	F23	WF981198	3.24	2/8/98	ATHECATE DINOFLAGELLATE	NA
WF981	F23	WF981198	3.24	2/8/98	DICTYOCHA FIBULA	2.76
WF981	F23	WF981198	3.24	2/8/98	DISTEPHANUS SPECULUM	22.19
WF981	F13	WF98125D	11.94	2/9/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	1881.81
WF981	F13	WF98125D	11.94	2/9/98	CERATIUM LONGIPES	29685.81
WF981	F13	WF98125D	11.94	2/9/98	CHAETOCEROS DECIPIENS	8993.21
WF981	F13	WF98125D	11.94	2/9/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	4200.07
WF981	F13	WF98125D	11.94	2/9/98	CRYPTOMONAS SP. GROUP 2 LENGTH >10 MICRONS	1254.54
WF981	F13	WF98125D	11.94	2/9/98	CYLINDROTHECA CLOSTERIUM	6002.09
WF981	F13	WF98125D	11.94	2/9/98	GYRODINIUM SP. GROUP 1 5-20UM W 10-20UM L	8100.92
WF981	F13	WF98125D	11.94	2/9/98	HETEROCAPSA ROTUNDATA	212.56

Survey	Sta.	Sample Number	Depth (m)	Sampling Date	Plankton	Estimated Carbon Equivalence (ng Carbon/L)
WF981	F13	WF98125D	11.94	2/9/98	PENNATE DIATOMS SP. GROUP 7 20-30 MICRONS LENGTH	NA
WF981	F13	WF98125D	11.94	2/9/98	PLEUROSIGMA SPP.	2540.11
WF981	F13	WF98125D	11.94	2/9/98	PYRAMIMONAS SP. GROUP 1 10-20 MICRONS LENGTH	NA
WF981	F13	WF98125D	11.94	2/9/98	RHIZOLENIA FRAGILISSIMA	5013.48
WF981	F13	WF98125D	11.94	2/9/98	SKELETONEMA COSTATUM GREV+CLEVE	3463.80
WF981	F13	WF98125D	11.94	2/9/98	THALASSIONEMA NITZSCHIOIDES	881.56
WF981	F13	WF98125D	11.94	2/9/98	THALASSIOSIRA ROTULA	42166.02
WF981	F13	WF98125D	11.94	2/9/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	109957.22
WF981	F13	WF98125D	11.94	2/9/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	9510.96
WF981	F13	WF98125D	11.94	2/9/98	ATHECATE DINOFLAGELLATE	NA
WF981	F13	WF98125D	11.94	2/9/98	CERATIUM TRIPOS	34.12
WF981	F13	WF98125D	11.94	2/9/98	DINOPHYSIS ACUMINATA	3.40
WF981	F13	WF98125D	11.94	2/9/98	DISTEPHANUS SPECULUM	28.10
WF981	F13	WF98125D	11.94	2/9/98	MESODINIUM RUBRUM	NA
WF981	F13	WF98125D	11.94	2/9/98	PROROCENTRUM MICANS	2.78
WF981	F13	WF98125D	11.94	2/9/98	PROTOPERIDIUM SPP.	28.42
WF981	F13	WF98125F	3.19	2/9/98	CALYCOMONAS OVALIS	58.20
WF981	F13	WF98125F	3.19	2/9/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	2069.99
WF981	F13	WF98125F	3.19	2/9/98	CHAETOCEROS DEBILIS	3160.50
WF981	F13	WF98125F	3.19	2/9/98	CHAETOCEROS SPP. (10-20UM)	NA
WF981	F13	WF98125F	3.19	2/9/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	4151.23
WF981	F13	WF98125F	3.19	2/9/98	CRYPTOMONAS SP. GROUP 2 LENGTH >10 MICRONS	1254.54
WF981	F13	WF98125F	3.19	2/9/98	CYLINDROTHECA CLOSTERIUM	8310.58
WF981	F13	WF98125F	3.19	2/9/98	DICTYOCHA SPECULUM	NA
WF981	F13	WF98125F	3.19	2/9/98	EUTREPTIA/EUTREPTIELLA SPP.	NA
WF981	F13	WF98125F	3.19	2/9/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	5831.26
WF981	F13	WF98125F	3.19	2/9/98	GYRODINIUM SP. GROUP 1 5-20UM W 10-20UM L	810.09
WF981	F13	WF98125F	3.19	2/9/98	GYROSIGMA SPP.	2540.11
WF981	F13	WF98125F	3.19	2/9/98	HETEROCAPSA ROTUNDATA	159.42
WF981	F13	WF98125F	3.19	2/9/98	LICMOPHORA SPP.	276.33
WF981	F13	WF98125F	3.19	2/9/98	NITZSCHIA SPP.	779.89
WF981	F13	WF98125F	3.19	2/9/98	PENNATE DIATOMS SP. GROUP 8 10-20 MICRONS LENGTH	NA
WF981	F13	WF98125F	3.19	2/9/98	PYRAMIMONAS SP. GROUP 1 10-20 MICRONS LENGTH	NA
WF981	F13	WF98125F	3.19	2/9/98	RHIZOLENIA SETIGERA	10556.18
WF981	F13	WF98125F	3.19	2/9/98	SKELETONEMA COSTATUM GREV+CLEVE	634.88
WF981	F13	WF98125F	3.19	2/9/98	THALASSIONEMA NITZSCHIOIDES	1007.50
WF981	F13	WF98125F	3.19	2/9/98	THALASSIOSIRA ROTULA	24411.90
WF981	F13	WF98125F	3.19	2/9/98	THALASSIOSIRA SP. GROUP 3 10-20 MICRONS LENGTH	1440.16
WF981	F13	WF98125F	3.19	2/9/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	38642.11
WF981	F13	WF98125F	3.19	2/9/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	22826.29
WF981	F13	WF98125F	3.19	2/9/98	CERATIUM LONGIPES	45.48
WF981	F13	WF98125F	3.19	2/9/98	CERATIUM TRIPOS	35.06
WF981	F13	WF98125F	3.19	2/9/98	DISTEPHANUS SPECULUM	31.11
WF981	F13	WF98125F	3.19	2/9/98	THECATE DINOFLAGELLATE SPP.	NA
WF981	F06	WF981290	15.87	2/9/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	1170.90
WF981	F06	WF981290	15.87	2/9/98	CHAETOCEROS BOREALIS	7093.92
WF981	F06	WF981290	15.87	2/9/98	CHAETOCEROS DECIPIENS	3747.17
WF981	F06	WF981290	15.87	2/9/98	CORETHRON CRIOPHILUM	15355.20
WF981	F06	WF981290	15.87	2/9/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	2213.99

Survey	Sta.	Sample Number	Depth (m)	Sampling Date	Plankton	Estimated Carbon Equivalence (ng Carbon/L)
WF981	F06	WF981290	15.87	2/9/98	CYLINDROTHECA CLOSTERIUM	7310.23
WF981	F06	WF981290	15.87	2/9/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	5940.67
WF981	F06	WF981290	15.87	2/9/98	GYRODINIUM SP. GROUP 1 5-20UM W 10-20UM L	540.06
WF981	F06	WF981290	15.87	2/9/98	GYRODINIUM SPIRALE	21936.36
WF981	F06	WF981290	15.87	2/9/98	HETEROCAPSA ROTUNDATA	212.56
WF981	F06	WF981290	15.87	2/9/98	RHIZOLENIA DELICATULA	2276.14
WF981	F06	WF981290	15.87	2/9/98	STEPHANOPYXIS NIPPONICA	NA
WF981	F06	WF981290	15.87	2/9/98	THALASSIONEMA NITZSCHIOIDES	944.53
WF981	F06	WF981290	15.87	2/9/98	THALASSIOSIRA ROTULA	20343.25
WF981	F06	WF981290	15.87	2/9/98	THALASSIOSIRA SP. GROUP 3 10-20 MICRONS LENGTH	2134.08
WF981	F06	WF981290	15.87	2/9/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	24609.47
WF981	F06	WF981290	15.87	2/9/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	13949.40
WF981	F06	WF981290	15.87	2/9/98	ATHECATE DINOFLAGELLATE	NA
WF981	F06	WF981290	15.87	2/9/98	CERATIUM FURCA	NA
WF981	F06	WF981290	15.87	2/9/98	CERATIUM LONGIPES	30.73
WF981	F06	WF981290	15.87	2/9/98	CERATIUM SPP.	16.24
WF981	F06	WF981290	15.87	2/9/98	CERATIUM TRIPOS	94.77
WF981	F06	WF981290	15.87	2/9/98	DINOPHYSIS ACUMINATA	2.36
WF981	F06	WF981290	15.87	2/9/98	DISTEPHANUS SPECULUM	25.52
WF981	F06	WF981290	15.87	2/9/98	PROTOPERIDINIUM SPP.	19.73
WF981	F06	WF981292	2.47	2/9/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	878.18
WF981	F06	WF981292	2.47	2/9/98	CHAETOCEROS DEBILIS	5268.77
WF981	F06	WF981292	2.47	2/9/98	CHAETOCEROS DECIPIENS	2810.38
WF981	F06	WF981292	2.47	2/9/98	CHAETOCEROS SPP. (10-20UM)	NA
WF981	F06	WF981292	2.47	2/9/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	1855.84
WF981	F06	WF981292	2.47	2/9/98	CRYPTOMONAS SP. GROUP 2 LENGTH >10 MICRONS	627.27
WF981	F06	WF981292	2.47	2/9/98	CYLINDROTHECA CLOSTERIUM	10388.23
WF981	F06	WF981292	2.47	2/9/98	DICTYOCHEA SPECULUM	NA
WF981	F06	WF981292	2.47	2/9/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	5400.61
WF981	F06	WF981292	2.47	2/9/98	GYRODINIUM SP. GROUP 1 5-20UM W 10-20UM L	1214.85
WF981	F06	WF981292	2.47	2/9/98	GYRODINIUM SPIRALE	16452.27
WF981	F06	WF981292	2.47	2/9/98	HETEROCAPSA ROTUNDATA	106.28
WF981	F06	WF981292	2.47	2/9/98	NITZSCHIA SPP.	487.43
WF981	F06	WF981292	2.47	2/9/98	PENNATE DIATOMS SP. GROUP 7 20-30 MICRONS LENGTH	NA
WF981	F06	WF981292	2.47	2/9/98	PLEUROSIGMA SPP.	1587.57
WF981	F06	WF981292	2.47	2/9/98	PYRAMIMONAS SP. GROUP 1 10-20 MICRONS LENGTH	NA
WF981	F06	WF981292	2.47	2/9/98	RHIZOLENIA DELICATULA	3415.04
WF981	F06	WF981292	2.47	2/9/98	RHIZOLENIA SETIGERA	5276.82
WF981	F06	WF981292	2.47	2/9/98	SKELETONEMA COSTATUM GREV+CLEVE	180.36
WF981	F06	WF981292	2.47	2/9/98	THALASSIONEMA NITZSCHIOIDES	393.55
WF981	F06	WF981292	2.47	2/9/98	THALASSIOSIRA PUNCTIGERA	NA
WF981	F06	WF981292	2.47	2/9/98	THALASSIOSIRA ROTULA	19418.56
WF981	F06	WF981292	2.47	2/9/98	THALASSIOSIRA SP. GROUP 4 20-30 MICRONS LENGTH	3991.38
WF981	F06	WF981292	2.47	2/9/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	18849.81
WF981	F06	WF981292	2.47	2/9/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	20290.04
WF981	F06	WF981292	2.47	2/9/98	ATHECATE DINOFLAGELLATE	NA
WF981	F06	WF981292	2.47	2/9/98	CERATIUM FURCA	NA
WF981	F06	WF981292	2.47	2/9/98	CERATIUM FUSUS	61.02
WF981	F06	WF981292	2.47	2/9/98	CERATIUM TRIPOS	62.55
WF981	F06	WF981292	2.47	2/9/98	DINOPHYSIS ACUMINATA	3.12
WF981	F06	WF981292	2.47	2/9/98	DISTEPHANUS SPECULUM	38.64

Survey	Sta.	Sample Number	Depth (m)	Sampling Date	Plankton	Estimated Carbon Equivalence (ng Carbon/L)
WF982	F02	WF982037	12.12	2/26/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	879.44
WF982	F02	WF982037	12.12	2/26/98	CHAETOCEROS BOREALIS	7093.92
WF982	F02	WF982037	12.12	2/26/98	CHAETOCEROS DEBILIS	33185.27
WF982	F02	WF982037	12.12	2/26/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	4793.03
WF982	F02	WF982037	12.12	2/26/98	CRYPTOMONAS SP. GROUP 2 LENGTH >10 MICRONS	1884.52
WF982	F02	WF982037	12.12	2/26/98	EUTREPTIA/EUTREPTIELLA SPP.	NA
WF982	F02	WF982037	12.12	2/26/98	GYRODINIUM SPIRALE	263236.30
WF982	F02	WF982037	12.12	2/26/98	RHIZOLENIA FRAGILISSIMA	10024.56
WF982	F02	WF982037	12.12	2/26/98	RHIZOLENIA SETIGERA	10553.65
WF982	F02	WF982037	12.12	2/26/98	SKELETONEMA COSTATUM GREV+CLEVE	107784.89
WF982	F02	WF982037	12.12	2/26/98	THALASSIONEMA NITZSCHIOIDES	11019.50
WF982	F02	WF982037	12.12	2/26/98	THALASSIOSIRA DECIPIENS	38817.58
WF982	F02	WF982037	12.12	2/26/98	THALASSIOSIRA ROTULA	432756.47
WF982	F02	WF982037	12.12	2/26/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	97531.14
WF982	F02	WF982037	12.12	2/26/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	22859.22
WF982	F02	WF982037	12.12	2/26/98	AMYLAX TRIACANTHA	3.66
WF982	F02	WF982037	12.12	2/26/98	CERATIUM LONGIPES	49.17
WF982	F02	WF982037	12.12	2/26/98	CERATIUM TRIPOS	56.86
WF982	F02	WF982037	12.12	2/26/98	DISTEPHANUS SPECULUM	23.42
WF982	F02	WF982037	12.12	2/26/98	GYRODINIUM SPP.	2.52
WF982	F02	WF982037	12.12	2/26/98	MESODINIUM RUBRUM	NA
WF982	F02	WF982039	2.59	2/26/98	CALYCOMONAS WULFFII	125.23
WF982	F02	WF982039	2.59	2/26/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	2072.98
WF982	F02	WF982039	2.59	2/26/98	CHAETOCEROS DEBILIS	38306.42
WF982	F02	WF982039	2.59	2/26/98	CHAETOCEROS SEPTENTRIONALIS	NA
WF982	F02	WF982039	2.59	2/26/98	CHAETOCEROS SPP. (10-20UM)	NA
WF982	F02	WF982039	2.59	2/26/98	CHAETOCEROS SPP. (<10UM)	1722.08
WF982	F02	WF982039	2.59	2/26/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	5810.32
WF982	F02	WF982039	2.59	2/26/98	CRYPTOMONAS SP. GROUP 2 LENGTH >10 MICRONS	690.99
WF982	F02	WF982039	2.59	2/26/98	CYLINDROTHECA CLOSTERIUM	1269.67
WF982	F02	WF982039	2.59	2/26/98	EUTREPTIA/EUTREPTIELLA SPP.	NA
WF982	F02	WF982039	2.59	2/26/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	14278.18
WF982	F02	WF982039	2.59	2/26/98	GYRODINIUM SPIRALE	144779.96
WF982	F02	WF982039	2.59	2/26/98	ODONTELLA AURITA	9631.91
WF982	F02	WF982039	2.59	2/26/98	PENNATE DIATOMS SP. GROUP 8 10-20 MICRONS LENGTH	NA
WF982	F02	WF982039	2.59	2/26/98	PLEUROSIGMA SPP.	6985.31
WF982	F02	WF982039	2.59	2/26/98	RHIZOLENIA DELICATULA	3755.64
WF982	F02	WF982039	2.59	2/26/98	RHIZOLENIA STOLTERFOTHII	10009.95
WF982	F02	WF982039	2.59	2/26/98	SKELETONEMA COSTATUM GREV+CLEVE	44282.71
WF982	F02	WF982039	2.59	2/26/98	THALASSIONEMA NITZSCHIOIDES	4502.25
WF982	F02	WF982039	2.59	2/26/98	THALASSIOSIRA NORDENSKIOLDII CLEVE	509.53
WF982	F02	WF982039	2.59	2/26/98	THALASSIOSIRA ROTULA	170883.33
WF982	F02	WF982039	2.59	2/26/98	THALASSIOSIRA SPP.	33797.76
WF982	F02	WF982039	2.59	2/26/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	71638.20
WF982	F02	WF982039	2.59	2/26/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	16763.43
WF982	F02	WF982039	2.59	2/26/98	AMYLAX TRIACANTHA	11.72
WF982	F02	WF982039	2.59	2/26/98	ATHECATE DINOFLAGELLATE	NA
WF982	F02	WF982039	2.59	2/26/98	CERATIUM FURCA	NA
WF982	F02	WF982039	2.59	2/26/98	CERATIUM LONGIPES	59.01
WF982	F02	WF982039	2.59	2/26/98	CERATIUM TRIPOS	60.65

Survey	Sta.	Sample Number	Depth (m)	Sampling Date	Plankton	Estimated Carbon Equivalence (ng Carbon/L)
WF982	F02	WF982039	2.59	2/26/98	DINOPHYSIS NORVEGICA	NA
WF982	F02	WF982039	2.59	2/26/98	DISTEPHANUS SPECULUM	12.01
WF982	F02	WF982039	2.59	2/26/98	EUGLENOID SPP.	NA
WF982	F02	WF982039	2.59	2/26/98	GYMNODINIUM SPP.	12.76
WF982	F02	WF982039	2.59	2/26/98	GYRODINIUM SPP.	2.02
WF982	F02	WF982039	2.59	2/26/98	MESODINIUM RUBRUM	NA
WF982	F02	WF982039	2.59	2/26/98	PROTOPERIDINIUM BIPES	1.04
WF982	F02	WF982039	2.59	2/26/98	PROTOPERIDINIUM SPP.	18.94
WF982	F27	WF98208D	51.24	2/26/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	1507.62
WF982	F27	WF98208D	51.24	2/26/98	COSCONODISCUS RADIATUS	10877.29
WF982	F27	WF98208D	51.24	2/26/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	3051.89
WF982	F27	WF98208D	51.24	2/26/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	3894.05
WF982	F27	WF98208D	51.24	2/26/98	GYRODINIUM SPP.	12208.15
WF982	F27	WF98208D	51.24	2/26/98	PSEUDONITZSCHIA PUNGENS	227.48
WF982	F27	WF98208D	51.24	2/26/98	THALASSIOSIRA ROTULA	6657.79
WF982	F27	WF98208D	51.24	2/26/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	46563.26
WF982	F27	WF98208D	51.24	2/26/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	6857.76
WF982	F27	WF98208D	51.24	2/26/98	CERATIUM FUSUS	7.40
WF982	F27	WF98208D	51.24	2/26/98	CERATIUM LINEATUM	19.12
WF982	F27	WF98208D	51.24	2/26/98	CERATIUM LONGIPES	540.88
WF982	F27	WF98208D	51.24	2/26/98	CERATIUM TRIPOS	454.88
WF982	F27	WF98208D	51.24	2/26/98	DISTEPHANUS SPECULUM	4.80
WF982	F27	WF98208F	2.57	2/26/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	1598.08
WF982	F27	WF98208F	2.57	2/26/98	CERATIUM TRIPOS	24258.35
WF982	F27	WF98208F	2.57	2/26/98	CHAETOCEROS BOREALIS	7532.21
WF982	F27	WF98208F	2.57	2/26/98	CHAETOCEROS SPP. (10-20UM)	NA
WF982	F27	WF98208F	2.57	2/26/98	CHOANOFAGELLATE SPP.	163.38
WF982	F27	WF98208F	2.57	2/26/98	COCCONEIS SCUTELLUM EHRENB.	2471.63
WF982	F27	WF98208F	2.57	2/26/98	COSCONODISCUS EXCENTRICUS	1052.33
WF982	F27	WF98208F	2.57	2/26/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	2310.71
WF982	F27	WF98208F	2.57	2/26/98	CYLINDROTHECA CLOSTERIUM	978.80
WF982	F27	WF98208F	2.57	2/26/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	12039.10
WF982	F27	WF98208F	2.57	2/26/98	GYMNODINIUM SP. GROUP 5 20-30 MICRONS	NA
WF982	F27	WF98208F	2.57	2/26/98	PENNATE DIATOMS SP. GROUP 7 20-30 MICRONS LENGTH	NA
WF982	F27	WF98208F	2.57	2/26/98	SKELETONEMA COSTATUM GREV+CLEVE	428.25
WF982	F27	WF98208F	2.57	2/26/98	THALASSIONEMA NITZSCHIOIDES	133.49
WF982	F27	WF98208F	2.57	2/26/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	54025.96
WF982	F27	WF98208F	2.57	2/26/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	9086.54
WF982	F27	WF98208F	2.57	2/26/98	CERATIUM FUSUS	7.40
WF982	F27	WF98208F	2.57	2/26/98	CERATIUM LINEATUM	4.78
WF982	F27	WF98208F	2.57	2/26/98	CERATIUM LONGIPES	467.12
WF982	F27	WF98208F	2.57	2/26/98	CERATIUM TRIPOS	246.39
WF982	F27	WF98208F	2.57	2/26/98	DISTEPHANUS SPECULUM	8.41
WF982	F13	WF982104	11.77	2/27/98	CALYCOMONAS WULFFII	62.61
WF982	F13	WF982104	11.77	2/27/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	1381.98
WF982	F13	WF982104	11.77	2/27/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	4196.34
WF982	F13	WF982104	11.77	2/27/98	CYLINDROTHECA CLOSTERIUM	1271.81
WF982	F13	WF982104	11.77	2/27/98	DICTYOCHEA SPECULUM	NA
WF982	F13	WF982104	11.77	2/27/98	EUTREPTIA/EUTREPTIELLA SPP.	NA
WF982	F13	WF982104	11.77	2/27/98	GRAMMATOPHORA MARINA	320.49
WF982	F13	WF982104	11.77	2/27/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	9816.25

Survey	Sta.	Sample Number	Depth (m)	Sampling Date	Plankton	Estimated Carbon Equivalence (ng Carbon/L)
WF982	F13	WF982104	11.77	2/27/98	GYMNODINIUM SP.GROUP 5 20-30 MICRONS	NA
WF982	F13	WF982104	11.77	2/27/98	HETEROCAPSA ROTUNDATA	175.62
WF982	F13	WF982104	11.77	2/27/98	PENNATE DIATOMS SP. GROUP 8 10-20 MICRONS LENGTH	NA
WF982	F13	WF982104	11.77	2/27/98	PLEUROSIGMA SPP.	2794.13
WF982	F13	WF982104	11.77	2/27/98	PROTOPERIDINIUM BREVIPIES	4718.02
WF982	F13	WF982104	11.77	2/27/98	PYRAMIMONAS/TETRASELMIS SPP.	NA
WF982	F13	WF982104	11.77	2/27/98	THALASSIOSIRA ROTULA	31735.47
WF982	F13	WF982104	11.77	2/27/98	THALASSIOSIRA SPP.	1877.65
WF982	F13	WF982104	11.77	2/27/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	52776.93
WF982	F13	WF982104	11.77	2/27/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	9429.43
WF982	F13	WF982104	11.77	2/27/98	ATHECATE DINOFLAGELLATE	NA
WF982	F13	WF982104	11.77	2/27/98	CERATIUM LINEATUM	8.99
WF982	F13	WF982104	11.77	2/27/98	CERATIUM LONGIPES	184.88
WF982	F13	WF982104	11.77	2/27/98	CERATIUM TRIPOS	89.08
WF982	F13	WF982104	11.77	2/27/98	DINOPHYSIS NORVEGICA	NA
WF982	F13	WF982104	11.77	2/27/98	DISTEPHANUS SPECULUM	9.03
WF982	F13	WF982104	11.77	2/27/98	GYMNODINIUM SPP.	9.99
WF982	F13	WF982104	11.77	2/27/98	MESODINIUM RUBRUM	NA
WF982	F13	WF982104	11.77	2/27/98	PROTOPERIDINIUM BIPES	1.23
WF982	F13	WF982104	11.77	2/27/98	PROTOPERIDINIUM BREVIPIES	6.68
WF982	F13	WF982104	11.77	2/27/98	PROTOPERIDINIUM DEPRESSUM	113.39
WF982	F13	WF982106	2.39	2/27/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	621.89
WF982	F13	WF982106	2.39	2/27/98	CHAETOCEROS DEBILIS	6964.80
WF982	F13	WF982106	2.39	2/27/98	CHAETOCEROS SPP. (10-20UM)	NA
WF982	F13	WF982106	2.39	2/27/98	CHAETOCEROS SPP.(<10UM)	172.21
WF982	F13	WF982106	2.39	2/27/98	CHOANOFLAGELLATE SPP.	847.73
WF982	F13	WF982106	2.39	2/27/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	4142.55
WF982	F13	WF982106	2.39	2/27/98	CRYPTOMONAS SP. GROUP 2 LENGTH >10 MICRONS	1036.49
WF982	F13	WF982106	2.39	2/27/98	CYLINDROTHECA CLOSTERIUM	507.87
WF982	F13	WF982106	2.39	2/27/98	EUTREPTIA/EUTREPTIELLA SPP.	NA
WF982	F13	WF982106	2.39	2/27/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	12493.41
WF982	F13	WF982106	2.39	2/27/98	GYMNODINIUM SP.GROUP 5 20-30 MICRONS	NA
WF982	F13	WF982106	2.39	2/27/98	LEPTOCYLINDRUS MINIMUS	173.33
WF982	F13	WF982106	2.39	2/27/98	PENNATE DIATOMS SP. GROUP 7 20-30 MICRONS LENGTH	NA
WF982	F13	WF982106	2.39	2/27/98	PYRAMIMONAS/TETRASELMIS SPP.	NA
WF982	F13	WF982106	2.39	2/27/98	SKELETONEMA COSTATUM GREV+CLEVE	634.88
WF982	F13	WF982106	2.39	2/27/98	THALASSIONEMA NITZSCHIOIDES	554.12
WF982	F13	WF982106	2.39	2/27/98	THALASSIOSIRA ROTULA	61029.76
WF982	F13	WF982106	2.39	2/27/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	64889.67
WF982	F13	WF982106	2.39	2/27/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	3143.14
WF982	F13	WF982106	2.39	2/27/98	CERATIUM FUSUS	6.95
WF982	F13	WF982106	2.39	2/27/98	CERATIUM LINEATUM	8.99
WF982	F13	WF982106	2.39	2/27/98	CERATIUM LONGIPES	161.77
WF982	F13	WF982106	2.39	2/27/98	CERATIUM TRIPOS	160.35
WF982	F13	WF982106	2.39	2/27/98	DINOPHYSIS NORVEGICA	NA
WF982	F13	WF982106	2.39	2/27/98	DISTEPHANUS SPECULUM	6.77
WF982	F13	WF982106	2.39	2/27/98	GYMNODINIUM SPP.	5.00
WF982	F13	WF982106	2.39	2/27/98	MESODINIUM RUBRUM	NA
WF982	F25	WF982120	4.93	2/27/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	1507.62
WF982	F25	WF982120	4.93	2/27/98	CERATIUM TRIPOS	22885.23

Survey	Sta.	Sample Number	Depth (m)	Sampling Date	Plankton	Estimated Carbon Equivalence (ng Carbon/L)
WF982	F25	WF982120	4.93	2/27/98	CHAETOCEROS DEBILIS	1896.30
WF982	F25	WF982120	4.93	2/27/98	CHAETOCEROS SPP.($<10\mu\text{M}$)	417.47
WF982	F25	WF982120	4.93	2/27/98	CHOANOFAGELLATE SPP.	411.02
WF982	F25	WF982120	4.93	2/27/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	6586.34
WF982	F25	WF982120	4.93	2/27/98	CRYPTOMONAS SP. GROUP 2 LENGTH >10 MICRONS	1256.35
WF982	F25	WF982120	4.93	2/27/98	CYLINDROTHECA CLOSTERIUM	4624.76
WF982	F25	WF982120	4.93	2/27/98	EUTREPTIA/EUTREPTIELLA SPP.	NA
WF982	F25	WF982120	4.93	2/27/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	5408.40
WF982	F25	WF982120	4.93	2/27/98	GYMNODINIUM SP.GROUP 5 20-30 MICRONS	NA
WF982	F25	WF982120	4.93	2/27/98	HETEROCAPSA ROTUNDATA	212.87
WF982	F25	WF982120	4.93	2/27/98	NITZSCHIA SPP.	3906.02
WF982	F25	WF982120	4.93	2/27/98	PARALIA SULCATA	1203.25
WF982	F25	WF982120	4.93	2/27/98	PENNATE DIATOMS SP. GROUP 7 20-30 MICRONS LENGTH	NA
WF982	F25	WF982120	4.93	2/27/98	PENNATE DIATOMS SP. GROUP 8 10-20 MICRONS LENGTH	NA
WF982	F25	WF982120	4.93	2/27/98	PLEUROSIGMA SPP.	2540.11
WF982	F25	WF982120	4.93	2/27/98	SKELETONEMA COSTATUM GREV+CLEVE	1500.62
WF982	F25	WF982120	4.93	2/27/98	THALASSIOSIRA NORDENSKIOLDII CLEVE	618.65
WF982	F25	WF982120	4.93	2/27/98	THALASSIOSIRA ROTULA	51043.07
WF982	F25	WF982120	4.93	2/27/98	THALASSIOSIRA SPP.	4089.82
WF982	F25	WF982120	4.93	2/27/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	62923.32
WF982	F25	WF982120	4.93	2/27/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	8889.70
WF982	F25	WF982120	4.93	2/27/98	ATHECATE DINOFLAGELLATE	NA
WF982	F25	WF982120	4.93	2/27/98	CERATIUM FUSUS	14.79
WF982	F25	WF982120	4.93	2/27/98	CERATIUM LONGIPES	172.10
WF982	F25	WF982120	4.93	2/27/98	CERATIUM SPP.	38.98
WF982	F25	WF982120	4.93	2/27/98	CERATIUM TRIPOS	113.72
WF982	F25	WF982120	4.93	2/27/98	DICTYOCHA FIBULA	2.09
WF982	F25	WF982120	4.93	2/27/98	DISTEPHANUS SPECULUM	1.20
WF982	F25	WF982120	4.93	2/27/98	MESODINIUM RUBRUM	NA
WF982	F25	WF982122	2.33	2/27/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	2130.77
WF982	F25	WF982122	2.33	2/27/98	CHAETOCEROS DEBILIS	1340.05
WF982	F25	WF982122	2.33	2/27/98	CHAETOCEROS SPP. (10-20UM)	NA
WF982	F25	WF982122	2.33	2/27/98	CHAETOCEROS SPP.($<10\mu\text{M}$)	221.26
WF982	F25	WF982122	2.33	2/27/98	CHAETOCEROS SUBTILIS	714.47
WF982	F25	WF982122	2.33	2/27/98	CHOANOFAGELLATE SPP.	653.53
WF982	F25	WF982122	2.33	2/27/98	COCCONEIS SCUTELLUM EHRENB.	1647.76
WF982	F25	WF982122	2.33	2/27/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	4510.34
WF982	F25	WF982122	2.33	2/27/98	CRYPTOMONAS SP. GROUP 2 LENGTH >10 MICRONS	887.82
WF982	F25	WF982122	2.33	2/27/98	CYANOBACTERIA SPP.	NA
WF982	F25	WF982122	2.33	2/27/98	CYLINDROTHECA CLOSTERIUM	2447.00
WF982	F25	WF982122	2.33	2/27/98	EUTREPTIA/EUTREPTIELLA SPP.	NA
WF982	F25	WF982122	2.33	2/27/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	3439.74
WF982	F25	WF982122	2.33	2/27/98	GYMNODINIUM SP.GROUP 5 20-30 MICRONS	NA
WF982	F25	WF982122	2.33	2/27/98	GYROSIGMA SPP.	8990.17
WF982	F25	WF982122	2.33	2/27/98	HETEROCAPSA ROTUNDATA	135.16
WF982	F25	WF982122	2.33	2/27/98	MELOSIRA SPP.	518.84
WF982	F25	WF982122	2.33	2/27/98	PENNATE DIATOMS SP. GROUP 7 20-30 MICRONS LENGTH	NA
WF982	F25	WF982122	2.33	2/27/98	PENNATE DIATOMS SP. GROUP 8 10-20 MICRONS LENGTH	NA

Survey	Sta.	Sample Number	Depth (m)	Sampling Date	Plankton	Estimated Carbon Equivalence (ng Carbon/L)
WF982	F25	WF982122	2.33	2/27/98	PYRAMIMONAS/TETRASELMIS SPP.	NA
WF982	F25	WF982122	2.33	2/27/98	SKELETONEMA COSTATUM GREV+CLEVE	734.15
WF982	F25	WF982122	2.33	2/27/98	THALASSIOSIRA NORDENSKIOLDII CLEVE	1092.95
WF982	F25	WF982122	2.33	2/27/98	THALASSIOSIRA ROTULA	30581.46
WF982	F25	WF982122	2.33	2/27/98	THALASSIOSIRA SPP.	6502.81
WF982	F25	WF982122	2.33	2/27/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	83818.06
WF982	F25	WF982122	2.33	2/27/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	6730.77
WF982	F25	WF982122	2.33	2/27/98	CERATIUM LINEATUM	4.30
WF982	F25	WF982122	2.33	2/27/98	CERATIUM LONGIPES	641.68
WF982	F25	WF982122	2.33	2/27/98	CERATIUM SPP.	11.69
WF982	F25	WF982122	2.33	2/27/98	CERATIUM TRIPOS	289.99
WF982	F25	WF982122	2.33	2/27/98	DISTEPHANUS SPECULUM	4.86
WF982	F25	WF982122	2.33	2/27/98	PROTOPERIDINIUM DEPRESSUM	217.14
WF982	N16	WF982140	19.45	2/27/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	1131.97
WF982	N16	WF982140	19.45	2/27/98	CHAETOCEROS DEBILIS	5033.65
WF982	N16	WF982140	19.45	2/27/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	4095.59
WF982	N16	WF982140	19.45	2/27/98	CRYPTOMONAS SP. GROUP 2 LENGTH >10 MICRONS	332.93
WF982	N16	WF982140	19.45	2/27/98	CYLINDROTHECA CLOSTERIUM	978.80
WF982	N16	WF982140	19.45	2/27/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	5159.62
WF982	N16	WF982140	19.45	2/27/98	PENNATE DIATOM SP. GROUP 9 >30 MICRONS LENGTH	NA
WF982	N16	WF982140	19.45	2/27/98	PENNATE DIATOMS SP. GROUP 8 10-20 MICRONS LENGTH	NA
WF982	N16	WF982140	19.45	2/27/98	THALASSIOSIRA ROTULA	4704.84
WF982	N16	WF982140	19.45	2/27/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	53025.48
WF982	N16	WF982140	19.45	2/27/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	8076.92
WF982	N16	WF982140	19.45	2/27/98	ATHECATE DINOFLAGELLATE	NA
WF982	N16	WF982140	19.45	2/27/98	CERATIUM FUSUS	17.75
WF982	N16	WF982140	19.45	2/27/98	CERATIUM LONGIPES	265.52
WF982	N16	WF982140	19.45	2/27/98	CERATIUM SPP.	15.59
WF982	N16	WF982140	19.45	2/27/98	CERATIUM TRIPOS	227.44
WF982	N16	WF982140	19.45	2/27/98	DINOPHYSIS NORVEGICA	NA
WF982	N16	WF982140	19.45	2/27/98	DISTEPHANUS SPECULUM	2.88
WF982	N16	WF982140	19.45	2/27/98	GYMNODINIUM SPP.	6.38
WF982	N16	WF982140	19.45	2/27/98	PROTOPERIDINIUM SPP.	9.47
WF982	N16	WF982140	19.45	2/27/98	THECATE DINOFLAGELLATE SPP.	NA
WF982	N16	WF982142	2.46	2/27/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	690.99
WF982	N16	WF982142	2.46	2/27/98	CERATIUM LONGIPES	74339.40
WF982	N16	WF982142	2.46	2/27/98	CHAETOCEROS SPP. (<10UM)	469.66
WF982	N16	WF982142	2.46	2/27/98	CHOANOFLAGELLATE SPP.	616.53
WF982	N16	WF982142	2.46	2/27/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	3814.86
WF982	N16	WF982142	2.46	2/27/98	CRYPTOMONAS SP. GROUP 2 LENGTH >10 MICRONS	628.17
WF982	N16	WF982142	2.46	2/27/98	DICTYOCHA SPECULUM	NA
WF982	N16	WF982142	2.46	2/27/98	EUTREPTIA/EUTREPTIELLA SPP.	NA
WF982	N16	WF982142	2.46	2/27/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	8112.60
WF982	N16	WF982142	2.46	2/27/98	GYMNODINIUM SP. GROUP 5 20-30 MICRONS	NA
WF982	N16	WF982142	2.46	2/27/98	GYRODINIUM SPIRALE	26323.63
WF982	N16	WF982142	2.46	2/27/98	PSEUDONITZSCHIA PUNGENS	1668.21
WF982	N16	WF982142	2.46	2/27/98	THALASSIONEMA NITZSCHIOIDES	377.81
WF982	N16	WF982142	2.46	2/27/98	THALASSIOSIRA DECIPIENS	2066.79
WF982	N16	WF982142	2.46	2/27/98	THALASSIOSIRA ROTULA	15534.85
WF982	N16	WF982142	2.46	2/27/98	THALASSIOSIRA SPP.	3413.92
WF982	N16	WF982142	2.46	2/27/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	46720.56

Survey	Sta.	Sample Number	Depth (m)	Sampling Date	Plankton	Estimated Carbon Equivalence (ng Carbon/L)
WF982	N16	WF982142	2.46	2/27/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	4762.34
WF982	N16	WF982142	2.46	2/27/98	CERATIUM FUSUS	33.28
WF982	N16	WF982142	2.46	2/27/98	CERATIUM LINEATUM	4.30
WF982	N16	WF982142	2.46	2/27/98	CERATIUM LONGIPES	398.29
WF982	N16	WF982142	2.46	2/27/98	CERATIUM TRIPOS	375.28
WF982	N16	WF982142	2.46	2/27/98	DISTEPHANUS SPECULUM	7.57
WF982	F24	WF982169	9.36	2/27/98	ASTERIONELLA FORMOSA	46.32
WF982	F24	WF982169	9.36	2/27/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	930.65
WF982	F24	WF982169	9.36	2/27/98	CHAETOCEROS SPP. (10-20UM)	NA
WF982	F24	WF982169	9.36	2/27/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	3608.27
WF982	F24	WF982169	9.36	2/27/98	CYANOBACTERIA SPP.	NA
WF982	F24	WF982169	9.36	2/27/98	CYLINDROTHECA CLOSTERIUM	3262.67
WF982	F24	WF982169	9.36	2/27/98	EUTREPTIA/EUTREPTIELLA SPP.	NA
WF982	F24	WF982169	9.36	2/27/98	GRAMMATOPHORA MARINA	257.37
WF982	F24	WF982169	9.36	2/27/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	7739.42
WF982	F24	WF982169	9.36	2/27/98	GYMNODINIUM SP.GROUP 5 20-30 MICRONS	NA
WF982	F24	WF982169	9.36	2/27/98	ODONTELLA AURITA	9297.28
WF982	F24	WF982169	9.36	2/27/98	PARALIA SULCATA	1771.46
WF982	F24	WF982169	9.36	2/27/98	PENNATE DIATOMS SP. GROUP 7 20-30 MICRONS LENGTH	NA
WF982	F24	WF982169	9.36	2/27/98	PLEUROSIGMA SPP.	6731.30
WF982	F24	WF982169	9.36	2/27/98	THALASSIONEMA NITZSCHIOIDES	444.98
WF982	F24	WF982169	9.36	2/27/98	THALASSIOSIRA ROTULA	23524.20
WF982	F24	WF982169	9.36	2/27/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	59195.11
WF982	F24	WF982169	9.36	2/27/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	9086.54
WF982	F24	WF982169	9.36	2/27/98	ATHECATE DINOFLAGELLATE	NA
WF982	F24	WF982169	9.36	2/27/98	CERATIUM FUSUS	29.59
WF982	F24	WF982169	9.36	2/27/98	CERATIUM LONGIPES	393.37
WF982	F24	WF982169	9.36	2/27/98	CERATIUM TRIPOS	322.21
WF982	F24	WF982169	9.36	2/27/98	DINOPHYSIS NORVEGICA	NA
WF982	F24	WF982169	9.36	2/27/98	DISTEPHANUS SPECULUM	13.81
WF982	F24	WF982169	9.36	2/27/98	MESODINIUM RUBRUM	NA
WF982	F24	WF982169	9.36	2/27/98	PROTOPERIDINIUM DEPRESSUM	120.63
WF982	F24	WF98216B	2.75	2/27/98	ASTERIONELLA FORMOSA	525.22
WF982	F24	WF98216B	2.75	2/27/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	1319.17
WF982	F24	WF98216B	2.75	2/27/98	CHAETOCEROS DEBILIS	4424.70
WF982	F24	WF98216B	2.75	2/27/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	4499.58
WF982	F24	WF98216B	2.75	2/27/98	CRYPTOMONAS SP. GROUP 2 LENGTH >10 MICRONS	314.09
WF982	F24	WF98216B	2.75	2/27/98	CYLINDROTHECA CLOSTERIUM	1846.80
WF982	F24	WF98216B	2.75	2/27/98	EUTREPTIA/EUTREPTIELLA SPP.	NA
WF982	F24	WF98216B	2.75	2/27/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	12168.90
WF982	F24	WF98216B	2.75	2/27/98	NITZSCHIA SPP.	389.95
WF982	F24	WF98216B	2.75	2/27/98	PARALIA SULCATA	802.17
WF982	F24	WF98216B	2.75	2/27/98	PENNATE DIATOMS SP. GROUP 7 20-30 MICRONS LENGTH	NA
WF982	F24	WF98216B	2.75	2/27/98	PENNATE DIATOMS SP. GROUP 8 10-20 MICRONS LENGTH	NA
WF982	F24	WF98216B	2.75	2/27/98	RHIZOSOLENIA SETIGERA	4221.46
WF982	F24	WF98216B	2.75	2/27/98	THALASSIOSIRA DECIPIENS	2066.79
WF982	F24	WF98216B	2.75	2/27/98	THALASSIOSIRA NORDENSKIOLDII CLEVE	309.33
WF982	F24	WF98216B	2.75	2/27/98	THALASSIOSIRA ROTULA	49933.44
WF982	F24	WF98216B	2.75	2/27/98	THALASSIOSIRA SPP.	4089.82
WF982	F24	WF98216B	2.75	2/27/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	53484.82

Appendix K

Survey	Sta.	Sample Number	Depth (m)	Sampling Date	Plankton	Estimated Carbon Equivalence (ng Carbon/L)
WF982	F24	WF98216B	2.75	2/27/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	2857.40
WF982	F24	WF98216B	2.75	2/27/98	ATHECATE DINOFLAGELLATE	NA
WF982	F24	WF98216B	2.75	2/27/98	CERATIUM FUSUS	8.51
WF982	F24	WF98216B	2.75	2/27/98	CERATIUM LONGIPES	367.55
WF982	F24	WF98216B	2.75	2/27/98	CERATIUM SPP.	14.94
WF982	F24	WF98216B	2.75	2/27/98	CERATIUM TRIPOS	174.37
WF982	F24	WF98216B	2.75	2/27/98	DINOPHYSIS NORVEGICA	NA
WF982	F24	WF98216B	2.75	2/27/98	DISTEPHANUS SPECULUM	11.05
WF982	F24	WF98216B	2.75	2/27/98	MESODINIUM RUBRUM	NA
WF982	F24	WF98216B	2.75	2/27/98	SCRIPPSIELLA TROCHOIDEA	2.02
WF982	F30	WF982182	5.78	2/27/98	ACHNANTHES SPP.	69.41
WF982	F30	WF982182	5.78	2/27/98	ASTERIONELLA FORMOSA	245.39
WF982	F30	WF982182	5.78	2/27/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	3658.49
WF982	F30	WF982182	5.78	2/27/98	CHAETOCEROS SPP. (10-20UM)	NA
WF982	F30	WF982182	5.78	2/27/98	CHOANOFAGELLATE SPP.	961.79
WF982	F30	WF982182	5.78	2/27/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	7934.91
WF982	F30	WF982182	5.78	2/27/98	CRYPTOMONAS SP. GROUP 2 LENGTH >10 MICRONS	653.30
WF982	F30	WF982182	5.78	2/27/98	DICTYOCHA SPECULUM	NA
WF982	F30	WF982182	5.78	2/27/98	DINOBYRON SPP.	94.34
WF982	F30	WF982182	5.78	2/27/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	23623.90
WF982	F30	WF982182	5.78	2/27/98	GYMNODINIUM SP. GROUP 5 20-30 MICRONS	NA
WF982	F30	WF982182	5.78	2/27/98	GYRODINIUM SPIRALE	13688.29
WF982	F30	WF982182	5.78	2/27/98	GYROSIGMA SPP.	2641.72
WF982	F30	WF982182	5.78	2/27/98	PENNATE DIATOM SP. GROUP 9 >30 MICRONS LENGTH	NA
WF982	F30	WF982182	5.78	2/27/98	PENNATE DIATOMS SP. GROUP 7 20-30 MICRONS LENGTH	NA
WF982	F30	WF982182	5.78	2/27/98	PENNATE DIATOMS SP. GROUP 8 10-20 MICRONS LENGTH	NA
WF982	F30	WF982182	5.78	2/27/98	PLEUROSIGMA SPP.	3962.58
WF982	F30	WF982182	5.78	2/27/98	PYRAMIMONAS/TETRAELEMIS SPP.	NA
WF982	F30	WF982182	5.78	2/27/98	SKELETONEMA COSTATUM GREV+CLEVE	300.12
WF982	F30	WF982182	5.78	2/27/98	THALASSIOSIRA ROTULA	18464.28
WF982	F30	WF982182	5.78	2/27/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	106667.61
WF982	F30	WF982182	5.78	2/27/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	7924.53
WF982	F30	WF982182	5.78	2/27/98	ATHECATE DINOFLAGELLATE	NA
WF982	F30	WF982182	5.78	2/27/98	CERATIUM FURCA	NA
WF982	F30	WF982182	5.78	2/27/98	CERATIUM FUSUS	17.01
WF982	F30	WF982182	5.78	2/27/98	CERATIUM LONGIPES	84.82
WF982	F30	WF982182	5.78	2/27/98	CERATIUM TRIPOS	65.39
WF982	F30	WF982182	5.78	2/27/98	DISTEPHANUS SPECULUM	4.83
WF982	F30	WF982182	5.78	2/27/98	MESODINIUM RUBRUM	NA
WF982	F30	WF982182	5.78	2/27/98	PROROCENTRUM MICANS	1.78
WF982	F30	WF982182	5.78	2/27/98	PROTOPERIDINIUM DEPRESSUM	277.45
WF982	F30	WF982182	5.78	2/27/98	PROTOPERIDINIUM SPP.	9.08
WF982	F30	WF982183	2.44	2/27/98	ASTERIONELLA FORMOSA	254.83
WF982	F30	WF982183	2.44	2/27/98	CALYCOMONAS WULFFII	122.95
WF982	F30	WF982183	2.44	2/27/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	3256.46
WF982	F30	WF982183	2.44	2/27/98	CHAETOCEROS SPP. (10-20UM)	NA
WF982	F30	WF982183	2.44	2/27/98	CHOANOFAGELLATE SPP.	332.93
WF982	F30	WF982183	2.44	2/27/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	6127.25
WF982	F30	WF982183	2.44	2/27/98	CRYPTOMONAS SP. GROUP 2 LENGTH >10 MICRONS	678.43
WF982	F30	WF982183	2.44	2/27/98	CYLINDROTHECA CLOSTERIUM	249.32

Survey	Sta.	Sample Number	Depth (m)	Sampling Date	Plankton	Estimated Carbon Equivalence (ng Carbon/L)
WF982	F30	WF982183	2.44	2/27/98	DICTYOCHA SPECULUM	NA
WF982	F30	WF982183	2.44	2/27/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	8761.61
WF982	F30	WF982183	2.44	2/27/98	GYMNODINIUM SP.GROUP 5 20-30 MICRONS	NA
WF982	F30	WF982183	2.44	2/27/98	GYROSIGMA SPP.	1371.66
WF982	F30	WF982183	2.44	2/27/98	HETEROCAPSA ROTUNDATA	34.43
WF982	F30	WF982183	2.44	2/27/98	MELOSIRA SPP.	176.21
WF982	F30	WF982183	2.44	2/27/98	PENNATE DIATOM SP. GROUP 9 >30 MICRONS LENGTH	NA
WF982	F30	WF982183	2.44	2/27/98	PENNATE DIATOMS SP. GROUP 7 20-30 MICRONS LENGTH	NA
WF982	F30	WF982183	2.44	2/27/98	PENNATE DIATOMS SP. GROUP 8 10-20 MICRONS LENGTH	NA
WF982	F30	WF982183	2.44	2/27/98	PLEUROSIGMA SPP.	1371.66
WF982	F30	WF982183	2.44	2/27/98	SCENESESMUS QUADRICAUDA	19.20
WF982	F30	WF982183	2.44	2/27/98	SKELETONEMA COSTATUM GREV+CLEVE	218.17
WF982	F30	WF982183	2.44	2/27/98	SURIRELLA SPP.	1609.73
WF982	F30	WF982183	2.44	2/27/98	SYNEDRA SPP.	2359.70
WF982	F30	WF982183	2.44	2/27/98	THALASSIONEMA NITZSCHIOIDES	136.01
WF982	F30	WF982183	2.44	2/27/98	THALASSIOSIRA ROTULA	19174.44
WF982	F30	WF982183	2.44	2/27/98	THALASSIOSIRA SPP.	2576.58
WF982	F30	WF982183	2.44	2/27/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	129118.65
WF982	F30	WF982183	2.44	2/27/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	10286.65
WF982	F30	WF982183	2.44	2/27/98	ATHECATE DINOFLAGELLATE	NA
WF982	F30	WF982183	2.44	2/27/98	DICTYOCHA SPECULUM	NA
WF982	F30	WF982183	2.44	2/27/98	GYRODINIUM SPP.	3.28
WF982	F30	WF982183	2.44	2/27/98	MESODINIUM RUBRUM	NA
WF982	F30	WF982183	2.44	2/27/98	THECATE DINOFLAGELLATE SPP.	NA
WF982	F23	WF982191	11.72	2/28/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	1065.38
WF982	F23	WF982191	11.72	2/28/98	CHAETOCEROS DEBILIS	2010.08
WF982	F23	WF982191	11.72	2/28/98	CHAETOCEROS SPP.(<10UM)	497.84
WF982	F23	WF982191	11.72	2/28/98	CHOANOFLLAGELLATE SPP.	490.14
WF982	F23	WF982191	11.72	2/28/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	4147.44
WF982	F23	WF982191	11.72	2/28/98	CRYPTOMONAS SP. GROUP 2 LENGTH >10 MICRONS	332.93
WF982	F23	WF982191	11.72	2/28/98	CYANOBACTERIA SPP.	NA
WF982	F23	WF982191	11.72	2/28/98	CYLINDROTHECA CLOSTERIUM	1468.20
WF982	F23	WF982191	11.72	2/28/98	EUTREPTIA/EUTREPTIELLA SPP.	NA
WF982	F23	WF982191	11.72	2/28/98	GRAMMATOPHORA MARINA	1546.79
WF982	F23	WF982191	11.72	2/28/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	6879.49
WF982	F23	WF982191	11.72	2/28/98	GYMNODINIUM SP.GROUP 5 20-30 MICRONS	NA
WF982	F23	WF982191	11.72	2/28/98	PARALIA SULCATA	2129.33
WF982	F23	WF982191	11.72	2/28/98	PENNATE DIATOMS SP. GROUP 7 20-30 MICRONS LENGTH	NA
WF982	F23	WF982191	11.72	2/28/98	PENNATE DIATOMS SP. GROUP 8 10-20 MICRONS LENGTH	NA
WF982	F23	WF982191	11.72	2/28/98	PLEUROSIGMA SPP.	6742.63
WF982	F23	WF982191	11.72	2/28/98	SKELETONEMA COSTATUM GREV+CLEVE	1378.85
WF982	F23	WF982191	11.72	2/28/98	THALASSIONEMA NITZSCHIOIDES	667.47
WF982	F23	WF982191	11.72	2/28/98	THALASSIOSIRA ROTULA	44695.98
WF982	F23	WF982191	11.72	2/28/98	THALASSIOSIRA SPP.	7237.50
WF982	F23	WF982191	11.72	2/28/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	58027.88
WF982	F23	WF982191	11.72	2/28/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	2019.23
WF982	F23	WF982191	11.72	2/28/98	ATHECATE DINOFLAGELLATE	NA

Appendix K

Survey	Sta.	Sample Number	Depth (m)	Sampling Date	Plankton	Estimated Carbon Equivalence (ng Carbon/L)
WF982	F23	WF982191	11.72	2/28/98	CERATIUM LONGIPES	33.68
WF982	F23	WF982191	11.72	2/28/98	DICTYOCHA SPECULUM	NA
WF982	F23	WF982191	11.72	2/28/98	MESODINIUM RUBRUM	NA
WF982	F23	WF982193	2.54	2/28/98	ASTERIONELLA FORMOSA	109.06
WF982	F23	WF982193	2.54	2/28/98	ASTERIONELLOPSIS GLACIALIS	1149.21
WF982	F23	WF982193	2.54	2/28/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	1437.26
WF982	F23	WF982193	2.54	2/28/98	CHAETOCEROS DEBILIS	2629.54
WF982	F23	WF982193	2.54	2/28/98	CHAETOCEROS SPP. (10-20UM)	NA
WF982	F23	WF982193	2.54	2/28/98	CHOANOFLLAGELLATE SPP.	641.19
WF982	F23	WF982193	2.54	2/28/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	5493.40
WF982	F23	WF982193	2.54	2/28/98	CYLINDROTHECA CLOSTERIUM	1440.50
WF982	F23	WF982193	2.54	2/28/98	EUTREPTIA/EUTREPTIELLA SPP.	NA
WF982	F23	WF982193	2.54	2/28/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	3374.84
WF982	F23	WF982193	2.54	2/28/98	GYMNODINIUM SP. GROUP 5 20-30 MICRONS	NA
WF982	F23	WF982193	2.54	2/28/98	GYRODINIUM SPIRALE	27376.58
WF982	F23	WF982193	2.54	2/28/98	MELOSIRA SPP.	509.05
WF982	F23	WF982193	2.54	2/28/98	PENNATE DIATOMS SP. GROUP 7 20-30 MICRONS LENGTH	NA
WF982	F23	WF982193	2.54	2/28/98	PENNATE DIATOMS SP. GROUP 8 10-20 MICRONS LENGTH	NA
WF982	F23	WF982193	2.54	2/28/98	PLEUROSIGMA SPP.	5283.44
WF982	F23	WF982193	2.54	2/28/98	PYRAMIMONAS/TETRASELMIS SPP.	NA
WF982	F23	WF982193	2.54	2/28/98	SKELETONEMA COSTATUM GREV+CLEVE	180.07
WF982	F23	WF982193	2.54	2/28/98	THALASSIONEMA NITZSCHIOIDES	130.97
WF982	F23	WF982193	2.54	2/28/98	THALASSIOSIRA NORDENSKIOLDII CLEVE	128.46
WF982	F23	WF982193	2.54	2/28/98	THALASSIOSIRA ROTULA	53084.79
WF982	F23	WF982193	2.54	2/28/98	THALASSIOSIRA SPP.	4253.41
WF982	F23	WF982193	2.54	2/28/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	106667.61
WF982	F23	WF982193	2.54	2/28/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	13867.92
WF982	F23	WF982193	2.54	2/28/98	CERATIUM FUSUS	17.61
WF982	F23	WF982193	2.54	2/28/98	DISTEPHANUS SPECULUM	10.01
WF982	F23	WF982193	2.54	2/28/98	MESODINIUM RUBRUM	NA
WF982	N18	WF9821B9	12.23	2/28/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	615.11
WF982	N18	WF9821B9	12.23	2/28/98	CHAETOCEROS BOREALIS	1447.16
WF982	N18	WF9821B9	12.23	2/28/98	CHOANOFLLAGELLATE SPP.	125.77
WF982	N18	WF9821B9	12.23	2/28/98	COSCINODISCUS EXCENTRICUS	2028.65
WF982	N18	WF9821B9	12.23	2/28/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	1945.58
WF982	N18	WF9821B9	12.23	2/28/98	CRYPTOMONAS SP. GROUP 2 LENGTH >10 MICRONS	256.30
WF982	N18	WF9821B9	12.23	2/28/98	CYLINDROTHECA CLOSTERIUM	943.45
WF982	N18	WF9821B9	12.23	2/28/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	20521.64
WF982	N18	WF9821B9	12.23	2/28/98	GYRODINIUM SPIRALE	13425.05
WF982	N18	WF9821B9	12.23	2/28/98	PENNATE DIATOMS SP. GROUP 8 10-20 MICRONS LENGTH	NA
WF982	N18	WF9821B9	12.23	2/28/98	THALASSIOSIRA ROTULA	22674.58
WF982	N18	WF9821B9	12.23	2/28/98	THALASSIOSIRA SPP.	695.27
WF982	N18	WF9821B9	12.23	2/28/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	48393.07
WF982	N18	WF9821B9	12.23	2/28/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	777.21
WF982	N18	WF9821B9	12.23	2/28/98	ATHECATE DINOFLAGELLATE	NA
WF982	N18	WF9821B9	12.23	2/28/98	CERATIUM FURCA	NA
WF982	N18	WF9821B9	12.23	2/28/98	CERATIUM FUSUS	22.19
WF982	N18	WF9821B9	12.23	2/28/98	CERATIUM LONGIPES	934.25
WF982	N18	WF9821B9	12.23	2/28/98	CERATIUM SPP.	12.99

Survey	Sta.	Sample Number	Depth (m)	Sampling Date	Plankton	Estimated Carbon Equivalence (ng Carbon/L)
WF982	N18	WF9821B9	12.23	2/28/98	CERATIUM TRIPOS	360.11
WF982	N18	WF9821B9	12.23	2/28/98	MESODINIUM RUBRUM	NA
WF982	N18	WF9821B9	12.23	2/28/98	PROTOPERIDINIUM DEPRESSUM	120.63
WF982	N18	WF9821BB	2.30	2/28/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	3462.50
WF982	N18	WF9821BB	2.30	2/28/98	CERATIUM TRIPOS	24258.35
WF982	N18	WF9821BB	2.30	2/28/98	CHAETOCEROS DEBILIS	2010.08
WF982	N18	WF9821BB	2.30	2/28/98	CHAETOCEROS SPP. (10-20UM)	NA
WF982	N18	WF9821BB	2.30	2/28/98	CHAETOCEROS SPP.<10UM)	165.95
WF982	N18	WF9821BB	2.30	2/28/98	CHOANOFLLAGELLATE SPP.	163.38
WF982	N18	WF9821BB	2.30	2/28/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	2369.96
WF982	N18	WF9821BB	2.30	2/28/98	CYLINDROTHECA CLOSTERIUM	489.40
WF982	N18	WF9821BB	2.30	2/28/98	DICTYOCHA SPECULUM	NA
WF982	N18	WF9821BB	2.30	2/28/98	GRAMMATOPHORA MARINA	308.84
WF982	N18	WF9821BB	2.30	2/28/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	15478.85
WF982	N18	WF9821BB	2.30	2/28/98	GYMNODINIUM SP.GROUP 5 20-30 MICRONS	NA
WF982	N18	WF9821BB	2.30	2/28/98	PENNATE DIATOMS SP. GROUP 7 20-30 MICRONS LENGTH	NA
WF982	N18	WF9821BB	2.30	2/28/98	PROTOPERIDINIUM BREVIPIES	4546.45
WF982	N18	WF9821BB	2.30	2/28/98	PSEUDONITZSCHIA PUNGENS	1125.29
WF982	N18	WF9821BB	2.30	2/28/98	RHIZOLENIA SETIGERA	4474.75
WF982	N18	WF9821BB	2.30	2/28/98	THALASSIOSIRA SPP.	1445.07
WF982	N18	WF9821BB	2.30	2/28/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	53192.23
WF982	N18	WF9821BB	2.30	2/28/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	6057.69
WF982	N18	WF9821BB	2.30	2/28/98	CERATIUM FURCA	NA
WF982	N18	WF9821BB	2.30	2/28/98	CERATIUM FUSUS	23.92
WF982	N18	WF9821BB	2.30	2/28/98	CERATIUM LONGIPES	914.37
WF982	N18	WF9821BB	2.30	2/28/98	CERATIUM TRIPOS	643.61
WF982	N18	WF9821BB	2.30	2/28/98	DISTEPHANUS SPECULUM	22.33
WF982	N18	WF9821BB	2.30	2/28/98	MESODINIUM RUBRUM	NA
WF982	N04	WF9821E1	23.51	2/28/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	532.69
WF982	N04	WF9821E1	23.51	2/28/98	CENTRIC DIATOM SP. GROUP 3 DIAM 31-60 MICRONS	1063.79
WF982	N04	WF9821E1	23.51	2/28/98	CHAETOCEROS DEBILIS	670.03
WF982	N04	WF9821E1	23.51	2/28/98	COSCONODISCUS EXCENTRICUS	526.17
WF982	N04	WF9821E1	23.51	2/28/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	799.86
WF982	N04	WF9821E1	23.51	2/28/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	18672.89
WF982	N04	WF9821E1	23.51	2/28/98	GYRODINIUM SPIRALE	13951.52
WF982	N04	WF9821E1	23.51	2/28/98	PENNATE DIATOM SP. GROUP 9 >30 MICRONS LENGTH	NA
WF982	N04	WF9821E1	23.51	2/28/98	PENNATE DIATOMS SP. GROUP 8 10-20 MICRONS LENGTH	NA
WF982	N04	WF9821E1	23.51	2/28/98	PLEUROSIGMA SPP.	1346.26
WF982	N04	WF9821E1	23.51	2/28/98	PSEUDONITZSCHIA PUNGENS	1205.66
WF982	N04	WF9821E1	23.51	2/28/98	THALASSIONEMA NITZSCHIOIDES	66.75
WF982	N04	WF9821E1	23.51	2/28/98	THALASSIOSIRA ROTULA	4704.84
WF982	N04	WF9821E1	23.51	2/28/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	34397.48
WF982	N04	WF9821E1	23.51	2/28/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	3461.54
WF982	N04	WF9821E1	23.51	2/28/98	ATHECATE DINOFLAGELLATE	NA
WF982	N04	WF9821E1	23.51	2/28/98	CERATIUM FUSUS	42.90
WF982	N04	WF9821E1	23.51	2/28/98	CERATIUM LONGIPES	534.74
WF982	N04	WF9821E1	23.51	2/28/98	CERATIUM SPP.	37.68
WF982	N04	WF9821E1	23.51	2/28/98	CERATIUM TRIPOS	467.20
WF982	N04	WF9821E1	23.51	2/28/98	DICTYOCHA SPECULUM	NA
WF982	N04	WF9821E1	23.51	2/28/98	GYRODINIUM SPP.	3.66
WF982	N04	WF9821E1	23.51	2/28/98	MESODINIUM RUBRUM	NA

Survey	Sta.	Sample Number	Depth (m)	Sampling Date	Plankton	Estimated Carbon Equivalence (ng Carbon/L)
WF982	N04	WF9821E1	23.51	2/28/98	PROTOPIRIDINIUM BREVIPIES	5.15
WF982	N04	WF9821E1	23.51	2/28/98	PROTOPIRIDINIUM DEPRESSUM	174.92
WF982	N04	WF9821E3	2.42	2/28/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	2010.16
WF982	N04	WF9821E3	2.42	2/28/98	CERATIUM TRIPOS	11442.62
WF982	N04	WF9821E3	2.42	2/28/98	CHAETOCEROS SPP. (10-20UM)	NA
WF982	N04	WF9821E3	2.42	2/28/98	CHOANOFLLAGELLATE SPP.	822.04
WF982	N04	WF9821E3	2.42	2/28/98	COSCINODISCUS RADIATUS	3625.76
WF982	N04	WF9821E3	2.42	2/28/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	3961.58
WF982	N04	WF9821E3	2.42	2/28/98	EUTREPTIA/EUTREPTIELLA SPP.	NA
WF982	N04	WF9821E3	2.42	2/28/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	20551.93
WF982	N04	WF9821E3	2.42	2/28/98	GYMNODINIUM SP.GROUP 5 20-30 MICRONS	NA
WF982	N04	WF9821E3	2.42	2/28/98	GYRODINIUM SPIRALE	39485.44
WF982	N04	WF9821E3	2.42	2/28/98	HETEROCAPSA TRIQUETRA	570.46
WF982	N04	WF9821E3	2.42	2/28/98	PENNATE DIATOMS SP. GROUP 8 10-20 MICRONS LENGTH	NA
WF982	N04	WF9821E3	2.42	2/28/98	PYRAMIMONAS/TETRASELMIS SPP.	NA
WF982	N04	WF9821E3	2.42	2/28/98	THALASSIONEMA NITZSCHIOIDES	188.91
WF982	N04	WF9821E3	2.42	2/28/98	THALASSIOSIRA ROTULA	14819.99
WF982	N04	WF9821E3	2.42	2/28/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	70054.63
WF982	N04	WF9821E3	2.42	2/28/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	5079.83
WF982	N04	WF9821E3	2.42	2/28/98	ATHECATE DINOFLAGELLATE	NA
WF982	N04	WF9821E3	2.42	2/28/98	CERATIUM FUSUS	19.23
WF982	N04	WF9821E3	2.42	2/28/98	CERATIUM LONGIPES	703.15
WF982	N04	WF9821E3	2.42	2/28/98	CERATIUM SPP.	33.78
WF982	N04	WF9821E3	2.42	2/28/98	CERATIUM TRIPOS	542.07
WF982	N04	WF9821E3	2.42	2/28/98	DISTEPHANUS SPECULUM	5.46
WF982	N04	WF9821E3	2.42	2/28/98	MESODINIUM RUBRUM	NA
WF982	N04	WF9821E3	2.42	2/28/98	PROTOPIRIDINIUM SPP.	10.26
WF982	F31	WF98229B	6.50	3/1/98	CHAETOCEROS BOREALIS	11724.67
WF982	F31	WF98229B	6.50	3/1/98	CHAETOCEROS SPP.(<10UM)	688.83
WF982	F31	WF98229B	6.50	3/1/98	CHOANOFLLAGELLATE SPP.	678.19
WF982	F31	WF98229B	6.50	3/1/98	COCCONEIS SCUTELLUM EHRENB.	1282.45
WF982	F31	WF98229B	6.50	3/1/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	8823.08
WF982	F31	WF98229B	6.50	3/1/98	CRYPTOMONAS SP. GROUP 2 LENGTH >10 MICRONS	1381.98
WF982	F31	WF98229B	6.50	3/1/98	CYANOBACTERIA SPP.	NA
WF982	F31	WF98229B	6.50	3/1/98	CYLINDROTHECA CLOSTERIUM	507.87
WF982	F31	WF98229B	6.50	3/1/98	EUTREPTIA/EUTREPTIELLA SPP.	NA
WF982	F31	WF98229B	6.50	3/1/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	10708.64
WF982	F31	WF98229B	6.50	3/1/98	GYRODINIUM SPIRALE	28955.99
WF982	F31	WF98229B	6.50	3/1/98	GYROSIGMA SPP.	2794.13
WF982	F31	WF98229B	6.50	3/1/98	PENNATE DIATOMS SP. GROUP 7 20-30 MICRONS LENGTH	NA
WF982	F31	WF98229B	6.50	3/1/98	PENNATE DIATOMS SP. GROUP 8 10-20 MICRONS LENGTH	NA
WF982	F31	WF98229B	6.50	3/1/98	RHIZOLENIA DELICATULA	751.13
WF982	F31	WF98229B	6.50	3/1/98	RHIZOLENIA SETIGERA	4643.60
WF982	F31	WF98229B	6.50	3/1/98	SCENESDESMUS QUADRIKAUDA	39.12
WF982	F31	WF98229B	6.50	3/1/98	SKELETONEMA COSTATUM GREV+CLEVE	2634.74
WF982	F31	WF98229B	6.50	3/1/98	THALASSIOSIRA DECIPIENS	2841.84
WF982	F31	WF98229B	6.50	3/1/98	THALASSIOSIRA ROTULA	70794.52
WF982	F31	WF98229B	6.50	3/1/98	THALASSIOSIRA SPP.	31920.11
WF982	F31	WF98229B	6.50	3/1/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	49143.11

Survey	Sta.	Sample Number	Depth (m)	Sampling Date	Plankton	Estimated Carbon Equivalence (ng Carbon/L)
WF982	F31	WF98229B	6.50	3/1/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	17811.14
WF982	F31	WF98229B	6.50	3/1/98	CERATIUM FUSUS	6.95
WF982	F31	WF98229B	6.50	3/1/98	CERATIUM LINEATUM	4.49
WF982	F31	WF98229B	6.50	3/1/98	CERATIUM LONGIPES	69.33
WF982	F31	WF98229B	6.50	3/1/98	CERATIUM TRIPOS	71.26
WF982	F31	WF98229B	6.50	3/1/98	DISTEPHANUS SPECULUM	0.56
WF982	F31	WF98229B	6.50	3/1/98	GYRODINIUM SPP.	2.37
WF982	F31	WF98229B	6.50	3/1/98	MESODINIUM RUBRUM	NA
WF982	F31	WF98229C	2.50	3/1/98	ASTERIONELLA FORMOSA	56.63
WF982	F31	WF98229C	2.50	3/1/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	1899.60
WF982	F31	WF98229C	2.50	3/1/98	CHAETOCEROS SPP. (10-20UM)	NA
WF982	F31	WF98229C	2.50	3/1/98	CHAETOCEROS SPP. (<10UM)	450.87
WF982	F31	WF98229C	2.50	3/1/98	CHOANOFAGELLATE SPP.	1331.71
WF982	F31	WF98229C	2.50	3/1/98	COCCONEIS SCUTELLUM EHRENB.	1678.85
WF982	F31	WF98229C	2.50	3/1/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	4067.23
WF982	F31	WF98229C	2.50	3/1/98	CYANOBACTERIA SPP.	NA
WF982	F31	WF98229C	2.50	3/1/98	CYLINDROTHECA CLOSTERIUM	249.32
WF982	F31	WF98229C	2.50	3/1/98	DICTYOCHA SPECULUM	NA
WF982	F31	WF98229C	2.50	3/1/98	EUTREPTIA/EUTREPTIELLA SPP.	NA
WF982	F31	WF98229C	2.50	3/1/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	9345.72
WF982	F31	WF98229C	2.50	3/1/98	GYMNODINIUM SP. GROUP 5 20-30 MICRONS	NA
WF982	F31	WF98229C	2.50	3/1/98	GYRODINIUM SPIRALE	14214.76
WF982	F31	WF98229C	2.50	3/1/98	GYROSIGMA SPP.	9159.80
WF982	F31	WF98229C	2.50	3/1/98	LICMOPHORA SPP.	149.22
WF982	F31	WF98229C	2.50	3/1/98	ODONTELLA AURITA	1891.36
WF982	F31	WF98229C	2.50	3/1/98	PARALIA SULCATA	1299.52
WF982	F31	WF98229C	2.50	3/1/98	PENNATE DIATOMS SP. GROUP 7 20-30 MICRONS LENGTH	NA
WF982	F31	WF98229C	2.50	3/1/98	PENNATE DIATOMS SP. GROUP 8 10-20 MICRONS LENGTH	NA
WF982	F31	WF98229C	2.50	3/1/98	PYRAMIMONAS/TETRASELMIS SPP.	NA
WF982	F31	WF98229C	2.50	3/1/98	SKELETONEMA COSTATUM GREV+CLEVE	1402.50
WF982	F31	WF98229C	2.50	3/1/98	SURIPELLA SPP.	867.79
WF982	F31	WF98229C	2.50	3/1/98	THALASSIOSIRA NORDENSKIOLDII CLEVE	133.40
WF982	F31	WF98229C	2.50	3/1/98	THALASSIOSIRA ROTULA	59920.13
WF982	F31	WF98229C	2.50	3/1/98	THALASSIOSIRA SPP.	6625.50
WF982	F31	WF98229C	2.50	3/1/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	75205.95
WF982	F31	WF98229C	2.50	3/1/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	2743.11
WF982	F31	WF98229C	2.50	3/1/98	ATHECATE DINOFLAGELLATE	NA
WF982	F31	WF98229C	2.50	3/1/98	CERATIUM LONGIPES	26.06
WF982	F31	WF98229C	2.50	3/1/98	CERATIUM TRIPOS	100.45
WF982	F31	WF98229C	2.50	3/1/98	DINOPHYSIS NORVEGICA	NA
WF982	F31	WF98229C	2.50	3/1/98	DISTEPHANUS SPECULUM	3.18
WF982	F31	WF98229C	2.50	3/1/98	MESODINIUM RUBRUM	NA
WF982	F06	WF9822C4	14.05	3/1/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	1444.80
WF982	F06	WF9822C4	14.05	3/1/98	CERATIUM FUSUS	4465.48
WF982	F06	WF9822C4	14.05	3/1/98	CHAETOCEROS DEBILIS	632.10
WF982	F06	WF9822C4	14.05	3/1/98	CHAETOCEROS SPP. (10-20UM)	NA
WF982	F06	WF9822C4	14.05	3/1/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	3863.77
WF982	F06	WF9822C4	14.05	3/1/98	CRYPTOMONAS SP. GROUP 2 LENGTH >10 MICRONS	314.09
WF982	F06	WF9822C4	14.05	3/1/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	12168.90
WF982	F06	WF9822C4	14.05	3/1/98	HETEROCAPSA TRIQUETRA	2857.10

Survey	Sta.	Sample Number	Depth (m)	Sampling Date	Plankton	Estimated Carbon Equivalence (ng Carbon/L)
WF982	F06	WF9822C4	14.05	3/1/98	PENNATE DIATOM SP. GROUP 9 >30 MICRONS LENGTH	NA
WF982	F06	WF9822C4	14.05	3/1/98	PSEUDONITZSCHIA PUNGENS	303.31
WF982	F06	WF9822C4	14.05	3/1/98	THALASSIOSIRA ROTULA	8877.06
WF982	F06	WF9822C4	14.05	3/1/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	57889.45
WF982	F06	WF9822C4	14.05	3/1/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	1904.93
WF982	F06	WF9822C4	14.05	3/1/98	CERATIUM FUSUS	19.97
WF982	F06	WF9822C4	14.05	3/1/98	CERATIUM LINEATUM	4.30
WF982	F06	WF9822C4	14.05	3/1/98	CERATIUM LONGIPES	309.78
WF982	F06	WF9822C4	14.05	3/1/98	CERATIUM SPP.	11.69
WF982	F06	WF9822C4	14.05	3/1/98	CERATIUM TRIPOS	170.58
WF982	F06	WF9822C4	14.05	3/1/98	DINOPHYSIS NORVEGICA	NA
WF982	F06	WF9822C4	14.05	3/1/98	DISTEPHANUS SPECULUM	4.86
WF982	F06	WF9822C4	14.05	3/1/98	MESODINIUM RUBRUM	NA
WF982	F06	WF9822C4	14.05	3/1/98	PROTOPERIDIUM BREVIPES	3.20
WF982	F06	WF9822C4	14.05	3/1/98	PROTOPERIDIUM SPP.	7.10
WF982	F06	WF9822C6	2.23	3/1/98	CALYCOMONAS WULFFII	48.27
WF982	F06	WF9822C6	2.23	3/1/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	1012.12
WF982	F06	WF9822C6	2.23	3/1/98	CHAETOCEROS SPP. (10-20UM)	NA
WF982	F06	WF9822C6	2.23	3/1/98	CHOANOFAGELLATE SPP.	392.12
WF982	F06	WF9822C6	2.23	3/1/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	1843.30
WF982	F06	WF9822C6	2.23	3/1/98	EUTREPTIA/EUTREPTIELLA SPP.	NA
WF982	F06	WF9822C6	2.23	3/1/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	10319.23
WF982	F06	WF9822C6	2.23	3/1/98	GYMNODINIUM SP. GROUP 5 20-30 MICRONS	NA
WF982	F06	WF9822C6	2.23	3/1/98	PENNATE DIATOM SP. GROUP 9 >30 MICRONS LENGTH	NA
WF982	F06	WF9822C6	2.23	3/1/98	PSEUDONITZSCHIA PUNGENS	229.65
WF982	F06	WF9822C6	2.23	3/1/98	PYRAMIMONAS/TETRASELMIS SPP.	NA
WF982	F06	WF9822C6	2.23	3/1/98	RHIZOLENIA SETIGERA	3196.25
WF982	F06	WF9822C6	2.23	3/1/98	THALASSIOSIRA ROTULA	33606.00
WF982	F06	WF9822C6	2.23	3/1/98	THALASSIOSIRA SPP.	2064.38
WF982	F06	WF9822C6	2.23	3/1/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	52158.40
WF982	F06	WF9822C6	2.23	3/1/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	5653.85
WF982	F06	WF9822C6	2.23	3/1/98	ATHECATE DINOFLAGELLATE	NA
WF982	F06	WF9822C6	2.23	3/1/98	CERATIUM FUSUS	14.79
WF982	F06	WF9822C6	2.23	3/1/98	CERATIUM LINEATUM	4.78
WF982	F06	WF9822C6	2.23	3/1/98	CERATIUM LONGIPES	270.44
WF982	F06	WF9822C6	2.23	3/1/98	CERATIUM TRIPOS	113.72
WF982	F06	WF9822C6	2.23	3/1/98	DINOPHYSIS NORVEGICA	NA
WF982	F06	WF9822C6	2.23	3/1/98	DISTEPHANUS SPECULUM	7.03
WF982	F06	WF9822C6	2.23	3/1/98	MESODINIUM RUBRUM	NA
WF982	F06	WF9822C6	2.23	3/1/98	PROTOPERIDIUM SPP.	7.10
WF982	F01	WF9822E4	7.78	3/1/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	2512.70
WF982	F01	WF9822E4	7.78	3/1/98	CHAETOCEROS DEBILIS	51621.53
WF982	F01	WF9822E4	7.78	3/1/98	CHAETOCEROS SPP. (10-20UM)	NA
WF982	F01	WF9822E4	7.78	3/1/98	CHOANOFAGELLATE SPP.	205.51
WF982	F01	WF9822E4	7.78	3/1/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	6129.86
WF982	F01	WF9822E4	7.78	3/1/98	CRYPTOMONAS SP. GROUP 2 LENGTH >10 MICRONS	418.78
WF982	F01	WF9822E4	7.78	3/1/98	CYLINDROTHECA CLOSTERIUM	3083.17
WF982	F01	WF9822E4	7.78	3/1/98	DETONULA CONFERVACEA	10279.79
WF982	F01	WF9822E4	7.78	3/1/98	EBRIA TRIPARTITA	2452.53
WF982	F01	WF9822E4	7.78	3/1/98	EUTREPTIA/EUTREPTIELLA SPP.	NA
WF982	F01	WF9822E4	7.78	3/1/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	20551.93
WF982	F01	WF9822E4	7.78	3/1/98	GYRODINIUM SPIRALE	175490.87
WF982	F01	WF9822E4	7.78	3/1/98	PENNATE DIATOMS SP. GROUP 8 10-20 MICRONS	NA

Survey	Sta.	Sample Number	Depth (m)	Sampling Date	Plankton	Estimated Carbon Equivalence (ng Carbon/L)
					LENGTH	
WF982	F01	WF9822E4	7.78	3/1/98	PROROCENTRUM MINIMUM	1551.77
WF982	F01	WF9822E4	7.78	3/1/98	PROTOPERIDINIUM BIPES	2623.64
WF982	F01	WF9822E4	7.78	3/1/98	PSEUDONITZSCHIA PUNGENS	1011.04
WF982	F01	WF9822E4	7.78	3/1/98	RHIZOLENIA DELICATULA	4559.95
WF982	F01	WF9822E4	7.78	3/1/98	RHIZOLENIA SETIGERA	14095.21
WF982	F01	WF9822E4	7.78	3/1/98	SKELETONEMA COSTATUM GREV+CLEVE	30685.75
WF982	F01	WF9822E4	7.78	3/1/98	THALASSIONEMA NITZSCHIOIDES	840.99
WF982	F01	WF9822E4	7.78	3/1/98	THALASSIOSIRA NORDENSKIOLDII CLEVE	4330.55
WF982	F01	WF9822E4	7.78	3/1/98	THALASSIOSIRA ROTULA	329190.82
WF982	F01	WF9822E4	7.78	3/1/98	THALASSIOSIRA SPP.	18207.55
WF982	F01	WF9822E4	7.78	3/1/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	89770.60
WF982	F01	WF9822E4	7.78	3/1/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	2539.91
WF982	F01	WF9822E4	7.78	3/1/98	CERATIUM FURCA	NA
WF982	F01	WF9822E4	7.78	3/1/98	CERATIUM FUSUS	22.19
WF982	F01	WF9822E4	7.78	3/1/98	CERATIUM LONGIPES	368.78
WF982	F01	WF9822E4	7.78	3/1/98	CERATIUM TRIPOS	170.58
WF982	F01	WF9822E4	7.78	3/1/98	DINOPHYSIS ACUMINATA	0.94
WF982	F01	WF9822E4	7.78	3/1/98	DISTEPHANUS SPECULUM	4.20
WF982	F01	WF9822E4	7.78	3/1/98	PROTOPERIDINIUM BREVIPES	7.10
WF982	F01	WF9822E4	7.78	3/1/98	PROTOPERIDINIUM SPP.	7.89
WF982	F01	WF9822E6	2.16	3/1/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	3196.15
WF982	F01	WF9822E6	2.16	3/1/98	CENTRIC DIATOM SP. GROUP 3 DIAM 31-60 MICRONS	15956.80
WF982	F01	WF9822E6	2.16	3/1/98	CHAETOCEROS DEBILIS	67002.64
WF982	F01	WF9822E6	2.16	3/1/98	CHAETOCEROS SPP. (10-20UM)	NA
WF982	F01	WF9822E6	2.16	3/1/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	8087.50
WF982	F01	WF9822E6	2.16	3/1/98	EUTREPTIA/EUTREPTIELLA SPP.	NA
WF982	F01	WF9822E6	2.16	3/1/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	18918.59
WF982	F01	WF9822E6	2.16	3/1/98	PENNATE DIATOMS SP. GROUP 7 20-30 MICRONS LENGTH	NA
WF982	F01	WF9822E6	2.16	3/1/98	SKELETONEMA COSTATUM GREV+CLEVE	36401.57
WF982	F01	WF9822E6	2.16	3/1/98	THALASSIOSIRA NORDENSKIOLDII CLEVE	2782.34
WF982	F01	WF9822E6	2.16	3/1/98	THALASSIOSIRA ROTULA	199955.68
WF982	F01	WF9822E6	2.16	3/1/98	THALASSIOSIRA SPP.	28950.00
WF982	F01	WF9822E6	2.16	3/1/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	117389.74
WF982	F01	WF9822E6	2.16	3/1/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	14134.62
WF982	F01	WF9822E6	2.16	3/1/98	ATHECATE DINOFLAGELLATE	NA
WF982	F01	WF9822E6	2.16	3/1/98	CERATIUM FUSUS	14.79
WF982	F01	WF9822E6	2.16	3/1/98	CERATIUM LONGIPES	245.86
WF982	F01	WF9822E6	2.16	3/1/98	CERATIUM MINUTUM	NA
WF982	F01	WF9822E6	2.16	3/1/98	CERATIUM SPP.	12.99
WF982	F01	WF9822E6	2.16	3/1/98	CERATIUM TRIPOS	208.49
WF982	F01	WF9822E6	2.16	3/1/98	DISTEPHANUS SPECULUM	5.40
WF982	F01	WF9822E6	2.16	3/1/98	HETEROCAPSA TRIQUETRA	0.94
WF982	F01	WF9822E6	2.16	3/1/98	MESODINIUM RUBRUM	NA
WF982	F01	WF9822E6	2.16	3/1/98	PROTOPERIDINIUM DEPRESSUM	120.63
WN983	N04	WN98302A	25.73	3/23/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	1775.64
WN983	N04	WN98302A	25.73	3/23/98	CENTRIC DIATOM SP. GROUP 3 DIAM 31-60 MICRONS	2127.57
WN983	N04	WN98302A	25.73	3/23/98	CERATIUM LONGIPES	31466.95
WN983	N04	WN98302A	25.73	3/23/98	CERATIUM TRIPOS	48516.69
WN983	N04	WN98302A	25.73	3/23/98	CHAETOCEROS DECIPIENS	4766.40

Survey	Sta.	Sample Number	Depth (m)	Sampling Date	Plankton	Estimated Carbon Equivalence (ng Carbon/L)
WN983	N04	WN98302A	25.73	3/23/98	CHAETOCEROS SPP. (10-20UM)	NA
WN983	N04	WN98302A	25.73	3/23/98	CHAETOCEROS SPP.<10UM)	663.78
WN983	N04	WN98302A	25.73	3/23/98	CHOANOFLLAGELLATE SPP.	217.84
WN983	N04	WN98302A	25.73	3/23/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	5806.41
WN983	N04	WN98302A	25.73	3/23/98	CRYPTOMONAS SP. GROUP 2 LENGTH >10 MICRONS	443.91
WN983	N04	WN98302A	25.73	3/23/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	20638.46
WN983	N04	WN98302A	25.73	3/23/98	GYMNODINIUM SP. GROUP 6 <10 MICRONS	NA
WN983	N04	WN98302A	25.73	3/23/98	NAVICULOID DIATOMS	NA
WN983	N04	WN98302A	25.73	3/23/98	PENNATE DIATOMS SP. GROUP 8 10-20 MICRONS LENGTH	NA
WN983	N04	WN98302A	25.73	3/23/98	PSEUDONITZSCHIA PUNGENS	803.78
WN983	N04	WN98302A	25.73	3/23/98	PYRAMIMONAS SPP.	849.57
WN983	N04	WN98302A	25.73	3/23/98	RHIZOLENIA FRAGILISSIMA	1062.60
WN983	N04	WN98302A	25.73	3/23/98	SKELETONEMA COSTATUM GREV+CLEVE	183.54
WN983	N04	WN98302A	25.73	3/23/98	THALASSIONEMA NITZSCHIOIDES	266.99
WN983	N04	WN98302A	25.73	3/23/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	69811.32
WN983	N04	WN98302A	25.73	3/23/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	14807.69
WN983	N04	WN98302A	25.73	3/23/98	ATHECATE DINOFLAGELLATE	NA
WN983	N04	WN98302A	25.73	3/23/98	CERATIUM FUSUS	65.39
WN983	N04	WN98302A	25.73	3/23/98	CERATIUM LINEATUM	19.89
WN983	N04	WN98302A	25.73	3/23/98	CERATIUM LONGIPES	4960.38
WN983	N04	WN98302A	25.73	3/23/98	CERATIUM SPP.	60.81
WN983	N04	WN98302A	25.73	3/23/98	CERATIUM TRIPOS	926.44
WN983	N04	WN98302A	25.73	3/23/98	DINOPHYSIS ACUMINATA	1.47
WN983	N04	WN98302A	25.73	3/23/98	DISTEPHANUS SPECULUM	1.56
WN983	N04	WN98302A	25.73	3/23/98	GYRODINIUM SPP.	1.31
WN983	N04	WN98302A	25.73	3/23/98	PROTOPERIDINIUM BREVE	8.14
WN983	N04	WN98302A	25.73	3/23/98	PROTOPERIDINIUM DEPRESSUM	250.91
WN983	N04	WN98302A	25.73	3/23/98	PROTOPERIDINIUM SPP.	20.52
WN983	N04	WN98302C	2.46	3/23/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	1172.59
WN983	N04	WN98302C	2.46	3/23/98	CENTRIC DIATOM SP. GROUP 3 DIAM 31-60 MICRONS	6701.74
WN983	N04	WN98302C	2.46	3/23/98	CERATIUM FUSUS	8930.97
WN983	N04	WN98302C	2.46	3/23/98	CERATIUM LONGIPES	118743.23
WN983	N04	WN98302C	2.46	3/23/98	CHAETOCEROS DEBILIS	3160.50
WN983	N04	WN98302C	2.46	3/23/98	CHAETOCEROS SPP. (10-20UM)	NA
WN983	N04	WN98302C	2.46	3/23/98	CHAETOCEROS SPP.<10UM)	626.21
WN983	N04	WN98302C	2.46	3/23/98	CHOANOFLLAGELLATE SPP.	411.02
WN983	N04	WN98302C	2.46	3/23/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	6912.39
WN983	N04	WN98302C	2.46	3/23/98	CRYPTOMONAS SP. GROUP 2 LENGTH >10 MICRONS	837.57
WN983	N04	WN98302C	2.46	3/23/98	DICTYCHA SPECULUM	NA
WN983	N04	WN98302C	2.46	3/23/98	EUTREPTIA/EUTREPTIELLA SPP.	NA
WN983	N04	WN98302C	2.46	3/23/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	22715.29
WN983	N04	WN98302C	2.46	3/23/98	GYMNODINIUM SP. GROUP 6 <10 MICRONS	NA
WN983	N04	WN98302C	2.46	3/23/98	PENNATE DIATOMS SP. GROUP 8 10-20 MICRONS LENGTH	NA
WN983	N04	WN98302C	2.46	3/23/98	PYRAMIMONAS SPP.	400.74
WN983	N04	WN98302C	2.46	3/23/98	RHIZOLENIA FRAGILISSIMA	2004.91
WN983	N04	WN98302C	2.46	3/23/98	SKELETONEMA COSTATUM GREV+CLEVE	385.42
WN983	N04	WN98302C	2.46	3/23/98	THALASSIONEMA NITZSCHIOIDES	251.87
WN983	N04	WN98302C	2.46	3/23/98	THALASSIOSIRA ROTULA	22229.98
WN983	N04	WN98302C	2.46	3/23/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	89980.35

Survey	Sta.	Sample Number	Depth (m)	Sampling Date	Plankton	Estimated Carbon Equivalence (ng Carbon/L)
WN983	N04	WN98302C	2.46	3/23/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	1269.96
WN983	N04	WN98302C	2.46	3/23/98	CERATIUM FUSUS	6.36
WN983	N04	WN98302C	2.46	3/23/98	CERATIUM LINEATUM	28.78
WN983	N04	WN98302C	2.46	3/23/98	CERATIUM LONGIPES	3996.13
WN983	N04	WN98302C	2.46	3/23/98	CERATIUM SPP.	44.69
WN983	N04	WN98302C	2.46	3/23/98	CERATIUM TRIPOS	619.40
WN983	N04	WN98302C	2.46	3/23/98	DINOPHYSIS ACUMINATA	1.63
WN983	N04	WN98302C	2.46	3/23/98	DISTEPHANUS SPECULUM	14.98
WN983	N18	WN98304E	10.82	3/23/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	670.05
WN983	N18	WN98304E	10.82	3/23/98	CENTRIC DIATOM SP. GROUP 3 DIAM 31-60 MICRONS	4014.29
WN983	N18	WN98304E	10.82	3/23/98	CERATIUM LONGIPES	118743.23
WN983	N18	WN98304E	10.82	3/23/98	CHAETOCEROS SPP.(<10UM)	208.74
WN983	N18	WN98304E	10.82	3/23/98	CHOANOFLLAGELLATE SPP.	205.51
WN983	N18	WN98304E	10.82	3/23/98	COCCONEIS SCUTELLUM EHRENB.	1554.49
WN983	N18	WN98304E	10.82	3/23/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	326.06
WN983	N18	WN98304E	10.82	3/23/98	CRYPTOMONAS SP. GROUP 2 LENGTH >10 MICRONS	3350.27
WN983	N18	WN98304E	10.82	3/23/98	DICTYOCHA SPECULUM	NA
WN983	N18	WN98304E	10.82	3/23/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	19470.25
WN983	N18	WN98304E	10.82	3/23/98	GYMNODINIUM SP. GROUP 6 <10 MICRONS	NA
WN983	N18	WN98304E	10.82	3/23/98	GYRODINIUM SPIRALE	52647.26
WN983	N18	WN98304E	10.82	3/23/98	PENNATE DIATOMS SP. GROUP 8 10-20 MICRONS LENGTH	NA
WN983	N18	WN98304E	10.82	3/23/98	PSEUDONITZSCHIA PUNGENS	1012.74
WN983	N18	WN98304E	10.82	3/23/98	THALASSIONEMA NITZSCHIOIDES	629.69
WN983	N18	WN98304E	10.82	3/23/98	THALASSIOSIRA ROTULA	4438.53
WN983	N18	WN98304E	10.82	3/23/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	70683.86
WN983	N18	WN98304E	10.82	3/23/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	10159.65
WN983	N18	WN98304E	10.82	3/23/98	CERATIUM FUSUS	40.68
WN983	N18	WN98304E	10.82	3/23/98	CERATIUM LINEATUM	35.86
WN983	N18	WN98304E	10.82	3/23/98	CERATIUM LONGIPES	4978.57
WN983	N18	WN98304E	10.82	3/23/98	CERATIUM SPP.	51.97
WN983	N18	WN98304E	10.82	3/23/98	CERATIUM TRIPOS	947.67
WN983	N18	WN98304E	10.82	3/23/98	DINOPHYSIS ACUMINATA	0.47
WN983	N18	WN98304E	10.82	3/23/98	DISTEPHANUS SPECULUM	2.70
WN983	N18	WN98304E	10.82	3/23/98	PROTOPERIDINIUM DEPRESSUM	120.63
WN983	N18	WN98304E	10.82	3/23/98	PROTOPERIDINIUM SPP.	11.84
WN983	N18	WN983050	2.57	3/23/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	1366.91
WN983	N18	WN983050	2.57	3/23/98	CENTRIC DIATOM SP. GROUP 3 DIAM 31-60 MICRONS	6835.78
WN983	N18	WN983050	2.57	3/23/98	CHAETOCEROS DECIPIENS	6879.81
WN983	N18	WN983050	2.57	3/23/98	CHAETOCEROS SPP.(<10UM)	425.82
WN983	N18	WN983050	2.57	3/23/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	5188.21
WN983	N18	WN983050	2.57	3/23/98	CRYPTOMONAS SP. GROUP 2 LENGTH >10 MICRONS	1281.48
WN983	N18	WN983050	2.57	3/23/98	EUTREPTIA/EUTREPTIELLA SPP.	NA
WN983	N18	WN983050	2.57	3/23/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	8826.51
WN983	N18	WN983050	2.57	3/23/98	GYMNODINIUM SP. GROUP 6 <10 MICRONS	NA
WN983	N18	WN983050	2.57	3/23/98	GYRODINIUM SPIRALE	26850.10
WN983	N18	WN983050	2.57	3/23/98	PENNATE DIATOMS SP. GROUP 8 10-20 MICRONS LENGTH	NA
WN983	N18	WN983050	2.57	3/23/98	PSEUDONITZSCHIA PUNGENS	618.76
WN983	N18	WN983050	2.57	3/23/98	PYRAMIMONAS SPP.	408.76
WN983	N18	WN983050	2.57	3/23/98	THALASSIONEMA NITZSCHIOIDES	128.46
WN983	N18	WN983050	2.57	3/23/98	THALASSIOSIRA ROTULA	7558.19
WN983	N18	WN983050	2.57	3/23/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	99909.65

Survey	Sta.	Sample Number	Depth (m)	Sampling Date	Plankton	Estimated Carbon Equivalence (ng Carbon/L)
WN983	N18	WN983050	2.57	3/23/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	12953.56
WN983	N18	WN983050	2.57	3/23/98	ATHECATE DINOFLAGELLATE	NA
WN983	N18	WN983050	2.57	3/23/98	CERATIUM FUSUS	58.58
WN983	N18	WN983050	2.57	3/23/98	CERATIUM LINEATUM	53.64
WN983	N18	WN983050	2.57	3/23/98	CERATIUM LONGIPES	5062.65
WN983	N18	WN983050	2.57	3/23/98	CERATIUM TRIPOS	1376.01
WN983	N18	WN983050	2.57	3/23/98	DINOPHYSIS ACUMINATA	3.74
WN983	N18	WN983050	2.57	3/23/98	DISTEPHANUS SPECULUM	3.96
WN983	N18	WN983050	2.57	3/23/98	MESODINIUM RUBRUM	NA
WN983	N18	WN983050	2.57	3/23/98	PROTOPERIDIUM DEPRESSUM	159.23
WN983	N18	WN983050	2.57	3/23/98	PROTOPERIDIUM SPP.	20.84
WF984	F01	WF984034	11.51	3/30/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	3793.18
WF984	F01	WF984034	11.51	3/30/98	CERATIUM LONGIPES	53447.28
WF984	F01	WF984034	11.51	3/30/98	CHAETOCEROS COMPRESSUS	718909.71
WF984	F01	WF984034	11.51	3/30/98	CHAETOCEROS DEBILIS	34141.61
WF984	F01	WF984034	11.51	3/30/98	CHAETOCEROS SOCIALIS	24907.07
WF984	F01	WF984034	11.51	3/30/98	CHAETOCEROS SP. GROUP 2 DIAM 10-30 MICRONS	143780.38
WF984	F01	WF984034	11.51	3/30/98	CHAETOCEROS TORTISSIMUS (EHRENBERG 1844) Diatom species	NA
WF984	F01	WF984034	11.51	3/30/98	CHOANOFLAGELLATE SPP.	664.80
WF984	F01	WF984034	11.51	3/30/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	9703.69
WF984	F01	WF984034	11.51	3/30/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	34990.93
WF984	F01	WF984034	11.51	3/30/98	GYMNODINIUM SP. GROUP 2 21-40UM W 21-50UM L	10768.52
WF984	F01	WF984034	11.51	3/30/98	GYRODINIUM SP. GROUP 2 21-40UM W 21-50UM L	64601.82
WF984	F01	WF984034	11.51	3/30/98	PENNATE DIATOM SP. GROUP 1 <10 MICRONS LENGTH	209.65
WF984	F01	WF984034	11.51	3/30/98	PENNATE DIATOM SP. GROUP 3 31-60 MICRONS LENGTH	509.57
WF984	F01	WF984034	11.51	3/30/98	PLEUROSIGMA SPP.	4573.30
WF984	F01	WF984034	11.51	3/30/98	PSEUDONITZSCHIA PUNGENS	5187.87
WF984	F01	WF984034	11.51	3/30/98	RHIZOLENIA FRAGILISSIMA	1804.85
WF984	F01	WF984034	11.51	3/30/98	RHIZOLENIA SETIGERA	15200.90
WF984	F01	WF984034	11.51	3/30/98	SKELETONEMA COSTATUM GREV+CLEVE	193252.18
WF984	F01	WF984034	11.51	3/30/98	THALASSIONEMA NITZSCHIOIDES	1587.19
WF984	F01	WF984034	11.51	3/30/98	THALASSIOSIRA NORDENSKIOLDII CLEVE	7337.92
WF984	F01	WF984034	11.51	3/30/98	THALASSIOSIRA ROTULA	335633.26
WF984	F01	WF984034	11.51	3/30/98	THALASSIOSIRA SP. GROUP 3 10-20 MICRONS LENGTH	13826.83
WF984	F01	WF984034	11.51	3/30/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	149268.98
WF984	F01	WF984034	11.51	3/30/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	16432.56
WF984	F01	WF984034	11.51	3/30/98	ATHECATE DINOFLAGELLATE	NA
WF984	F01	WF984034	11.51	3/30/98	CERATIUM FUSUS	12.43
WF984	F01	WF984034	11.51	3/30/98	CERATIUM LINEATUM	5.35
WF984	F01	WF984034	11.51	3/30/98	CERATIUM LONGIPES	674.63
WF984	F01	WF984034	11.51	3/30/98	CERATIUM SPP.	50.93
WF984	F01	WF984034	11.51	3/30/98	CERATIUM TRIPOS	127.37
WF984	F01	WF984034	11.51	3/30/98	DINOPHYSIS NORVEGICA	NA
WF984	F01	WF984034	11.51	3/30/98	DISTEPHANUS SPECULUM	1.01
WF984	F01	WF984034	11.51	3/30/98	GYRODINIUM SP. GROUP 3 41-70UM W 51-70UM L	36.04
WF984	F01	WF984034	11.51	3/30/98	PROTOPERIDIUM PYRIFORME	NA
WF984	F01	WF984034	11.51	3/30/98	PROTOPERIDIUM SPP.	44.20
WF984	F01	WF984034	11.51	3/30/98	THECATE DINOFLAGELLATE SPP.	NA
WF984	F01	WF984036	2.61	3/30/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	852.96
WF984	F01	WF984036	2.61	3/30/98	CHAETOCEROS COMPRESSUS	622776.44

Survey	Sta.	Sample Number	Depth (m)	Sampling Date	Plankton	Estimated Carbon Equivalence (ng Carbon/L)
WF984	F01	WF984036	2.61	3/30/98	CHAETOCEROS DEBILIS	30723.03
WF984	F01	WF984036	2.61	3/30/98	CHAETOCEROS SP. GROUP 1 DIAM <10 MICRONS	10803.76
WF984	F01	WF984036	2.61	3/30/98	CHAETOCEROS SUBTILIS	89.89
WF984	F01	WF984036	2.61	3/30/98	CHAETOCEROS TORTISSIMUS (EHRENBERG 1844) Diatom species	NA
WF984	F01	WF984036	2.61	3/30/98	CHOANOFLAGELLATE SPP.	332.40
WF984	F01	WF984036	2.61	3/30/98	CRYPTOMONADS	NA
WF984	F01	WF984036	2.61	3/30/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	39.06
WF984	F01	WF984036	2.61	3/30/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	31491.84
WF984	F01	WF984036	2.61	3/30/98	GYRODINIUM SPIRALE	26326.16
WF984	F01	WF984036	2.61	3/30/98	LEPTOCYLINDRUS DANICUS	220.26
WF984	F01	WF984036	2.61	3/30/98	NAVICULOID DIATOMS	NA
WF984	F01	WF984036	2.61	3/30/98	PENNATE DIATOM SP. GROUP 3 31-60 MICRONS LENGTH	283.09
WF984	F01	WF984036	2.61	3/30/98	PLEUROSIGMA SPP.	508.14
WF984	F01	WF984036	2.61	3/30/98	PSEUDONITZSCHIA PUNGENS	819.02
WF984	F01	WF984036	2.61	3/30/98	PYRAMIMONAS SPP.	120.03
WF984	F01	WF984036	2.61	3/30/98	RHIZOLENIA FRAGILISSIMA	200.54
WF984	F01	WF984036	2.61	3/30/98	SKELETONEMA COSTATUM GREV+CLEVE	21530.19
WF984	F01	WF984036	2.61	3/30/98	THALASSIONEMA NITZSCHIOIDES	100.77
WF984	F01	WF984036	2.61	3/30/98	THALASSIOSIRA NORDENSKIOLDII CLEVE	1914.78
WF984	F01	WF984036	2.61	3/30/98	THALASSIOSIRA SP. GROUP 3 10-20 MICRONS LENGTH	320.07
WF984	F01	WF984036	2.61	3/30/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	22616.51
WF984	F01	WF984036	2.61	3/30/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	1901.92
WF984	F01	WF984036	2.61	3/30/98	CERATIUM FUSUS	7.69
WF984	F01	WF984036	2.61	3/30/98	CERATIUM LINEATUM	4.97
WF984	F01	WF984036	2.61	3/30/98	CERATIUM LONGIPES	1125.03
WF984	F01	WF984036	2.61	3/30/98	CERATIUM SPP.	243.22
WF984	F01	WF984036	2.61	3/30/98	DINOPHYSIS ACUMINATA	2.95
WF984	F01	WF984036	2.61	3/30/98	DISTEPHANUS SPECULUM	5.62
WF984	F01	WF984036	2.61	3/30/98	GYMNODINIUM SPP. (30UM)	NA
WF984	F01	WF984036	2.61	3/30/98	GYRODINIUM SP. GROUP 3 41-70UM W 51-70UM L	50.19
WF984	F01	WF984036	2.61	3/30/98	HETEROCAPSA TRIQUETRA	1.47
WF984	F01	WF984036	2.61	3/30/98	MESODINIUM RUBRUM	NA
WF984	F01	WF984036	2.61	3/30/98	PROTOPERIDINIUM BREVE	8.14
WF984	F01	WF984036	2.61	3/30/98	PROTOPERIDINIUM BREVIPIES	1.85
WF984	F01	WF984036	2.61	3/30/98	PROTOPERIDINIUM DEPRESSUM	125.46
WF984	F01	WF984036	2.61	3/30/98	PROTOPERIDINIUM PYRIFORME	NA
WF984	F01	WF984036	2.61	3/30/98	PROTOPERIDINIUM SPP.	12.31
WF984	F02	WF984053	15.31	3/30/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	2481.96
WF984	F02	WF984053	15.31	3/30/98	CHAETOCEROS BOREALIS	10027.04
WF984	F02	WF984053	15.31	3/30/98	CHAETOCEROS TORTISSIMUS (EHRENBERG 1844) Diatom species	NA
WF984	F02	WF984053	15.31	3/30/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	5314.11
WF984	F02	WF984053	15.31	3/30/98	CRYPTOMONAS SP. GROUP 2 LENGTH >10 MICRONS	886.41
WF984	F02	WF984053	15.31	3/30/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	17171.47
WF984	F02	WF984053	15.31	3/30/98	GYRODINIUM SPIRALE	93019.09
WF984	F02	WF984053	15.31	3/30/98	PSEUDONITZSCHIA PUNGENS	1071.80
WF984	F02	WF984053	15.31	3/30/98	RHIZOLENIA DELICATULA	4825.89
WF984	F02	WF984053	15.31	3/30/98	SKELETONEMA COSTATUM GREV+CLEVE	5710.60

Survey	Sta.	Sample Number	Depth (m)	Sampling Date	Plankton	Estimated Carbon Equivalence (ng Carbon/L)
WF984	F02	WF984053	15.31	3/30/98	THALASSIONEMA NITZSCHIOIDES	1335.06
WF984	F02	WF984053	15.31	3/30/98	THALASSIOSIRA NORDENSKIOLDII CLEVE	872.97
WF984	F02	WF984053	15.31	3/30/98	THALASSIOSIRA ROTULA	39210.76
WF984	F02	WF984053	15.31	3/30/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	75694.12
WF984	F02	WF984053	15.31	3/30/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	17472.28
WF984	F02	WF984053	15.31	3/30/98	AMYLAX TRIACANTHA	5.49
WF984	F02	WF984053	15.31	3/30/98	ATHECATE DINOFLAGELLATE	NA
WF984	F02	WF984053	15.31	3/30/98	CERATIUM LINEATUM	9.56
WF984	F02	WF984053	15.31	3/30/98	CERATIUM LONGIPES	2851.92
WF984	F02	WF984053	15.31	3/30/98	CERATIUM SPP.	220.87
WF984	F02	WF984053	15.31	3/30/98	CERATIUM TRIPOS	530.69
WF984	F02	WF984053	15.31	3/30/98	DINOPHYSIS NORVEGICA	NA
WF984	F02	WF984053	15.31	3/30/98	DISTEPHANUS SPECULUM	3.60
WF984	F02	WF984053	15.31	3/30/98	GYRODINIUM SP. GROUP 3 41-70UM W 51-70UM L	64.35
WF984	F02	WF984053	15.31	3/30/98	MESODINIUM RUBRUM	NA
WF984	F02	WF984053	15.31	3/30/98	PROTOPERIDIUM BREVE	62.63
WF984	F02	WF984053	15.31	3/30/98	PROTOPERIDIUM DENTICULATUM	NA
WF984	F02	WF984053	15.31	3/30/98	PROTOPERIDIUM DIVERGENS	20.65
WF984	F02	WF984053	15.31	3/30/98	PROTOPERIDIUM PYRIFORME	NA
WF984	F02	WF984053	15.31	3/30/98	PROTOPERIDIUM SPP.	47.36
WF984	F02	WF984053	15.31	3/30/98	THECATE DINOFLAGELLATE SPP.	NA
WF984	F02	WF984055	2.74	3/30/98	APEDINELLA SPP (THRONDSSEN 1971) Chrysophyte genus	NA
WF984	F02	WF984055	2.74	3/30/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	864.25
WF984	F02	WF984055	2.74	3/30/98	CERATIUM LONGIPES	62949.02
WF984	F02	WF984055	2.74	3/30/98	CERATIUM TRIPOS	24264.17
WF984	F02	WF984055	2.74	3/30/98	CHAETOCEROS COMPRESSUS	26664.99
WF984	F02	WF984055	2.74	3/30/98	CHAETOCEROS SP. GROUP 1 DIAM <10 MICRONS	6461.62
WF984	F02	WF984055	2.74	3/30/98	CHAETOCEROS SP. GROUP 2 DIAM 10-30 MICRONS	11942.45
WF984	F02	WF984055	2.74	3/30/98	CHAETOCEROS SPP.(<10UM)	1159.78
WF984	F02	WF984055	2.74	3/30/98	CHAETOCEROS TORTISSIMUS (EHRENBERG 1844) Diatom species	NA
WF984	F02	WF984055	2.74	3/30/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	2381.00
WF984	F02	WF984055	2.74	3/30/98	DICTYOCHA SPECULUM	NA
WF984	F02	WF984055	2.74	3/30/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	18030.05
WF984	F02	WF984055	2.74	3/30/98	GYRODINIUM SP. GROUP 1 5-20UM W 10-20UM L	2575.72
WF984	F02	WF984055	2.74	3/30/98	GYRODINIUM SPIRALE	55819.49
WF984	F02	WF984055	2.74	3/30/98	LEPTOCYLINDRUS DANICUS	3502.06
WF984	F02	WF984055	2.74	3/30/98	PROTOPERIDIUM BIPES	1669.04
WF984	F02	WF984055	2.74	3/30/98	PSEUDONITZSCHIA DELICATISSIMA	67.02
WF984	F02	WF984055	2.74	3/30/98	PSEUDONITZSCHIA PUNGENS	8441.67
WF984	F02	WF984055	2.74	3/30/98	PYRAMIMONAS SPP.	318.09
WF984	F02	WF984055	2.74	3/30/98	SKELETONEMA COSTATUM GREV+CLEVE	305.92
WF984	F02	WF984055	2.74	3/30/98	THALASSIONEMA NITZSCHIOIDES	333.77
WF984	F02	WF984055	2.74	3/30/98	THALASSIOSIRA NORDENSKIOLDII CLEVE	916.75
WF984	F02	WF984055	2.74	3/30/98	THALASSIOSIRA ROTULA	108221.70
WF984	F02	WF984055	2.74	3/30/98	THALASSIOSIRA SP. GROUP 3 10-20 MICRONS LENGTH	2544.52
WF984	F02	WF984055	2.74	3/30/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	67259.00
WF984	F02	WF984055	2.74	3/30/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	72577.16
WF984	F02	WF984055	2.74	3/30/98	AMYLAX TRIACANTHA	7.33
WF984	F02	WF984055	2.74	3/30/98	ATHECATE DINOFLAGELLATE	NA
WF984	F02	WF984055	2.74	3/30/98	CERATIUM FUSUS	29.59
WF984	F02	WF984055	2.74	3/30/98	CERATIUM LINEATUM	19.12

Survey	Sta.	Sample Number	Depth (m)	Sampling Date	Plankton	Estimated Carbon Equivalence (ng Carbon/L)
WF984	F02	WF984055	2.74	3/30/98	CERATIUM LONGIPES	3933.68
WF984	F02	WF984055	2.74	3/30/98	CERATIUM SPP.	597.66
WF984	F02	WF984055	2.74	3/30/98	CERATIUM TRIPOS	341.16
WF984	F02	WF984055	2.74	3/30/98	DINOPHYSIS ACUMINATA	6.61
WF984	F02	WF984055	2.74	3/30/98	DINOPHYSIS NORVEGICA	NA
WF984	F02	WF984055	2.74	3/30/98	DISTEPHANUS SPECULUM	2.40
WF984	F02	WF984055	2.74	3/30/98	GYRODINIUM SP. GROUP 3 41-70UM W 51-70UM L	21.45
WF984	F02	WF984055	2.74	3/30/98	MESODINIUM RUBRUM	NA
WF984	F02	WF984055	2.74	3/30/98	PROTOPERIDINIUM DEPRESSUM	482.53
WF984	F02	WF984055	2.74	3/30/98	PROTOPERIDINIUM PYRIFORME	NA
WF984	F02	WF984055	2.74	3/30/98	PROTOPERIDINIUM SPP.	47.36
WF984	F02	WF984055	2.74	3/30/98	THECATE DINOFLAGELLATE SPP.	NA
WF984	F27	WF9840A6	13.23	3/30/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	2619.10
WF984	F27	WF9840A6	13.23	3/30/98	CHAETOCEROS SEPTENTRIONALIS	NA
WF984	F27	WF9840A6	13.23	3/30/98	CHAETOCEROS SP. GROUP 1 DIAM <10 MICRONS	2475.86
WF984	F27	WF9840A6	13.23	3/30/98	CHOANOFAGELLATE SPP.	443.20
WF984	F27	WF9840A6	13.23	3/30/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	4148.68
WF984	F27	WF9840A6	13.23	3/30/98	CRYPTOMONAS SP. GROUP 2 LENGTH >10 MICRONS	1806.28
WF984	F27	WF9840A6	13.23	3/30/98	CYLINDROTHECA CLOSTERIUM	1662.28
WF984	F27	WF9840A6	13.23	3/30/98	DICTYOCHA SPECULUM	NA
WF984	F27	WF9840A6	13.23	3/30/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	5831.82
WF984	F27	WF9840A6	13.23	3/30/98	PENNATE DIATOM SP. GROUP 1 <10 MICRONS LENGTH	69.88
WF984	F27	WF9840A6	13.23	3/30/98	SKELETONEMA COSTATUM GREV+CLEVE	2077.98
WF984	F27	WF9840A6	13.23	3/30/98	THALASSIONEMA NITZSCHIOIDES	453.42
WF984	F27	WF9840A6	13.23	3/30/98	THALASSIOSIRA NORDENSKIOLDII CLEVE	444.72
WF984	F27	WF9840A6	13.23	3/30/98	THALASSIOSIRA ROTULA	63920.94
WF984	F27	WF9840A6	13.23	3/30/98	THALASSIOSIRA SP. GROUP 3 10-20 MICRONS LENGTH	2880.59
WF984	F27	WF9840A6	13.23	3/30/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	73956.00
WF984	F27	WF9840A6	13.23	3/30/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	19171.33
WF984	F27	WF9840A6	13.23	3/30/98	ATHECATE DINOFLAGELLATE	NA
WF984	F27	WF9840A6	13.23	3/30/98	CERATIUM FUSUS	81.73
WF984	F27	WF9840A6	13.23	3/30/98	CERATIUM LINEATUM	16.26
WF984	F27	WF9840A6	13.23	3/30/98	CERATIUM LONGIPES	4722.88
WF984	F27	WF9840A6	13.23	3/30/98	CERATIUM TRIPOS	1288.83
WF984	F27	WF9840A6	13.23	3/30/98	DINOPHYSIS ACUMINATA	4.02
WF984	F27	WF9840A6	13.23	3/30/98	DISTEPHANUS SPECULUM	9.19
WF984	F27	WF9840A6	13.23	3/30/98	HETEROCAPSA TRIQUETRA	1.61
WF984	F27	WF9840A6	13.23	3/30/98	MESODINIUM RUBRUM	NA
WF984	F27	WF9840A6	13.23	3/30/98	PROTOPERIDINIUM BREVIPIES	9.06
WF984	F27	WF9840A6	13.23	3/30/98	PROTOPERIDINIUM DEPRESSUM	102.54
WF984	F27	WF9840A6	13.23	3/30/98	PROTOPERIDINIUM SPP.	87.22
WF984	F27	WF9840A8	2.86	3/30/98	APEDINELLA SPP (THRONDSSEN 1971) Chrysophyte genus	NA
WF984	F27	WF9840A8	2.86	3/30/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	3753.04
WF984	F27	WF9840A8	2.86	3/30/98	CERATIUM LONGIPES	121147.16
WF984	F27	WF9840A8	2.86	3/30/98	CHAETOCEROS COMPRESSUS	4737.68
WF984	F27	WF9840A8	2.86	3/30/98	CHAETOCEROS SP. GROUP 1 DIAM <10 MICRONS	2338.31
WF984	F27	WF9840A8	2.86	3/30/98	CHOANOFAGELLATE SPP.	209.29
WF984	F27	WF9840A8	2.86	3/30/98	COCCONEIS SCUTELLUM EHRENB.	1583.07
WF984	F27	WF9840A8	2.86	3/30/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	4847.94
WF984	F27	WF9840A8	2.86	3/30/98	CRYPTOMONAS SP. GROUP 2 LENGTH >10 MICRONS	852.96
WF984	F27	WF9840A8	2.86	3/30/98	CYLINDROTHECA CLOSTERIUM	1413.14
WF984	F27	WF9840A8	2.86	3/30/98	DICTYOCHA SPECULUM	NA

Survey	Sta.	Sample Number	Depth (m)	Sampling Date	Plankton	Estimated Carbon Equivalence (ng Carbon/L)
WF984	F27	WF9840A8	2.86	3/30/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	26437.59
WF984	F27	WF9840A8	2.86	3/30/98	GYMNODINIUM SP. GROUP 2 21-40UM W 21-50UM L	6102.16
WF984	F27	WF9840A8	2.86	3/30/98	GYRODINIUM SPIRALE	89508.93
WF984	F27	WF9840A8	2.86	3/30/98	LICMOPHORA SPP.	281.92
WF984	F27	WF9840A8	2.86	3/30/98	PENNATE DIATOM SP. GROUP 2 10-30 MICRONS LENGTH	673.13
WF984	F27	WF9840A8	2.86	3/30/98	PSEUDONITZSCHIA DELICATISSIMA	64.49
WF984	F27	WF9840A8	2.86	3/30/98	PSEUDONITZSCHIA PUNGENS	1031.36
WF984	F27	WF9840A8	2.86	3/30/98	PYRAMIMONAS SPP.	408.11
WF984	F27	WF9840A8	2.86	3/30/98	SKELETONEMA COSTATUM GREV+CLEVE	3297.54
WF984	F27	WF9840A8	2.86	3/30/98	THALASSIONEMA NITZSCHIOIDES	256.97
WF984	F27	WF9840A8	2.86	3/30/98	THALASSIOSIRA NORDENSKIOLDII CLEVE	504.09
WF984	F27	WF9840A8	2.86	3/30/98	THALASSIOSIRA ROTULA	67925.78
WF984	F27	WF9840A8	2.86	3/30/98	THALASSIOSIRA SP. GROUP 3 10-20 MICRONS LENGTH	2612.11
WF984	F27	WF9840A8	2.86	3/30/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	101887.39
WF984	F27	WF9840A8	2.86	3/30/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	28452.68
WF984	F27	WF9840A8	2.86	3/30/98	ATHECATE DINOFLAGELLATE	NA
WF984	F27	WF9840A8	2.86	3/30/98	CERATIUM FUSUS	88.02
WF984	F27	WF9840A8	2.86	3/30/98	CERATIUM LINEATUM	16.73
WF984	F27	WF9840A8	2.86	3/30/98	CERATIUM LONGIPES	4732.71
WF984	F27	WF9840A8	2.86	3/30/98	CERATIUM TRIPOS	1074.65
WF984	F27	WF9840A8	2.86	3/30/98	DINOPHYSIS ACUMINATA	1.98
WF984	F27	WF9840A8	2.86	3/30/98	DISTEPHANUS SPECULUM	10.09
WF984	F27	WF9840A8	2.86	3/30/98	GYRODINIUM SP. GROUP 3 41-70UM W 51-70UM L	7.51
WF984	F27	WF9840A8	2.86	3/30/98	MESODINIUM RUBRUM	NA
WF984	F27	WF9840A8	2.86	3/30/98	PROTOPERIDINIUM DEPRESSUM	168.88
WF984	F27	WF9840A8	2.86	3/30/98	PROTOPERIDINIUM SPP.	55.25
WF984	F31	WF9840C9	5.63	3/31/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	1896.59
WF984	F31	WF9840C9	5.63	3/31/98	CHAETOCEROS COMPRESSUS	8359.42
WF984	F31	WF9840C9	5.63	3/31/98	CHAETOCEROS SP. GROUP 1 DIAM <10 MICRONS	2475.86
WF984	F31	WF9840C9	5.63	3/31/98	CHAETOCEROS SP. GROUP 2 DIAM 10-30 MICRONS	13273.95
WF984	F31	WF9840C9	5.63	3/31/98	CHOANOFLAGELLATE SPP.	443.20
WF984	F31	WF9840C9	5.63	3/31/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	5836.28
WF984	F31	WF9840C9	5.63	3/31/98	CYLINDROTHECA CLOSTERIUM	1662.28
WF984	F31	WF9840C9	5.63	3/31/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	9330.91
WF984	F31	WF9840C9	5.63	3/31/98	PENNATE DIATOM SP. GROUP 2 10-30 MICRONS LENGTH	1425.46
WF984	F31	WF9840C9	5.63	3/31/98	PSEUDONITZSCHIA PUNGENS	327.66
WF984	F31	WF9840C9	5.63	3/31/98	SKELETONEMA COSTATUM GREV+CLEVE	12781.42
WF984	F31	WF9840C9	5.63	3/31/98	THALASSIOSIRA NORDENSKIOLDII CLEVE	1000.77
WF984	F31	WF9840C9	5.63	3/31/98	THALASSIOSIRA ROTULA	74318.79
WF984	F31	WF9840C9	5.63	3/31/98	THALASSIOSIRA SP. GROUP 3 10-20 MICRONS LENGTH	172.86
WF984	F31	WF9840C9	5.63	3/31/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	80740.95
WF984	F31	WF9840C9	5.63	3/31/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	6846.90
WF984	F31	WF9840C9	5.63	3/31/98	ATHECATE DINOFLAGELLATE	NA
WF984	F31	WF9840C9	5.63	3/31/98	CERATIUM FUSUS	23.08
WF984	F31	WF9840C9	5.63	3/31/98	CERATIUM LINEATUM	2.49
WF984	F31	WF9840C9	5.63	3/31/98	CERATIUM LONGIPES	2301.21
WF984	F31	WF9840C9	5.63	3/31/98	CERATIUM SPP.	135.12
WF984	F31	WF9840C9	5.63	3/31/98	CERATIUM TRIPOS	197.11
WF984	F31	WF9840C9	5.63	3/31/98	DINOPHYSIS ACUMINATA	0.49

Survey	Sta.	Sample Number	Depth (m)	Sampling Date	Plankton	Estimated Carbon Equivalence (ng Carbon/L)
WF984	F31	WF9840C9	5.63	3/31/98	DISTEPHANUS SPECULUM	3.43
WF984	F31	WF9840C9	5.63	3/31/98	MESODINIUM RUBRUM	NA
WF984	F31	WF9840C9	5.63	3/31/98	PROTOPERIDINIUM SPP.	24.63
WF984	F31	WF9840CA	2.48	3/31/98	ASTERIONELLA FORMOSA	444.74
WF984	F31	WF9840CA	2.48	3/31/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	3058.13
WF984	F31	WF9840CA	2.48	3/31/98	CHAETOCEROS SP. GROUP 1 DIAM <10 MICRONS	1656.83
WF984	F31	WF9840CA	2.48	3/31/98	CHOANOFLLAGELLATE SPP.	978.74
WF984	F31	WF9840CA	2.48	3/31/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	8281.73
WF984	F31	WF9840CA	2.48	3/31/98	CYLINDROTHECA CLOSTERIUM	489.52
WF984	F31	WF9840CA	2.48	3/31/98	EUTREPTIA/EUTREPTIELLA SPP.	NA
WF984	F31	WF9840CA	2.48	3/31/98	GRAMMATOPHORA MARINA	308.91
WF984	F31	WF9840CA	2.48	3/31/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	17171.47
WF984	F31	WF9840CA	2.48	3/31/98	PENNATE DIATOM SP. GROUP 1 <10 MICRONS LENGTH	144.06
WF984	F31	WF9840CA	2.48	3/31/98	PSEUDONITZSCHIA PUNGENS	1125.56
WF984	F31	WF9840CA	2.48	3/31/98	RHIZOLENIA FRAGILISSIMA	1062.86
WF984	F31	WF9840CA	2.48	3/31/98	RHIZOLENIA SETIGERA	4475.82
WF984	F31	WF9840CA	2.48	3/31/98	SKELETONEMA COSTATUM GREV+CLEVE	12483.53
WF984	F31	WF9840CA	2.48	3/31/98	THALASSIOSIRA NORDENSKIOLDII CLEVE	261.93
WF984	F31	WF9840CA	2.48	3/31/98	THALASSIOSIRA ROTULA	56471.63
WF984	F31	WF9840CA	2.48	3/31/98	THALASSIOSIRA SP. GROUP 3 10-20 MICRONS LENGTH	2375.23
WF984	F31	WF9840CA	2.48	3/31/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	134850.96
WF984	F31	WF9840CA	2.48	3/31/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	38304.61
WF984	F31	WF9840CA	2.48	3/31/98	ATHECATE DINOFLAGELLATE	NA
WF984	F31	WF9840CA	2.48	3/31/98	CERATIUM FUSUS	29.59
WF984	F31	WF9840CA	2.48	3/31/98	CERATIUM LONGIPES	3884.51
WF984	F31	WF9840CA	2.48	3/31/98	CERATIUM SPP.	259.85
WF984	F31	WF9840CA	2.48	3/31/98	CERATIUM TRIPOS	265.35
WF984	F31	WF9840CA	2.48	3/31/98	DINOPHYSIS ACUMINATA	0.47
WF984	F31	WF9840CA	2.48	3/31/98	DINOPHYSIS NORVEGICA	NA
WF984	F31	WF9840CA	2.48	3/31/98	DISTEPHANUS SPECULUM	0.90
WF984	F31	WF9840CA	2.48	3/31/98	GYRODINIUM SP. GROUP 3 41-70UM W 51-70UM L	10.73
WF984	F31	WF9840CA	2.48	3/31/98	HETEROCAPSA TRIQUETRA	0.47
WF984	F31	WF9840CA	2.48	3/31/98	MESODINIUM RUBRUM	NA
WF984	F31	WF9840CA	2.48	3/31/98	PROTOPERIDINIUM DEPRESSUM	60.32
WF984	F31	WF9840CA	2.48	3/31/98	PROTOPERIDINIUM PYRIFORME	NA
WF984	F31	WF9840CA	2.48	3/31/98	PROTOPERIDINIUM SPP.	15.79
WF984	F30	WF9840D5	6.54	3/31/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	5142.87
WF984	F30	WF9840D5	6.54	3/31/98	CHAETOCEROS SP. GROUP 1 DIAM <10 MICRONS	4376.52
WF984	F30	WF9840D5	6.54	3/31/98	CHAETOCEROS SP. GROUP 2 DIAM 10-30 MICRONS	13314.92
WF984	F30	WF9840D5	6.54	3/31/98	CHAETOCEROS SUBTILIS	449.46
WF984	F30	WF9840D5	6.54	3/31/98	CHAETOCEROS TORTISSIMUS (EHRENBERG 1844) Diatom species	NA
WF984	F30	WF9840D5	6.54	3/31/98	CHOANOFLLAGELLATE SPP.	369.33
WF984	F30	WF9840D5	6.54	3/31/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	7519.97
WF984	F30	WF9840D5	6.54	3/31/98	CRYPTOMONAS SP. GROUP 2 LENGTH >10 MICRONS	4390.26
WF984	F30	WF9840D5	6.54	3/31/98	DINOBRYON SPP.	362.93
WF984	F30	WF9840D5	6.54	3/31/98	EUTREPTIA/EUTREPTIELLA SPP.	NA
WF984	F30	WF9840D5	6.54	3/31/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	8099.75
WF984	F30	WF9840D5	6.54	3/31/98	LICMOPHORA SPP.	1381.76
WF984	F30	WF9840D5	6.54	3/31/98	PENNATE DIATOM SP. GROUP 1 <10 MICRONS LENGTH	873.52
WF984	F30	WF9840D5	6.54	3/31/98	PENNATE DIATOM SP. GROUP 3 31-60 MICRONS LENGTH	283.09

Survey	Sta.	Sample Number	Depth (m)	Sampling Date	Plankton	Estimated Carbon Equivalence (ng Carbon/L)
WF984	F30	WF9840D5	6.54	3/31/98	RHIZOLENIA SETIGERA	21109.32
WF984	F30	WF9840D5	6.54	3/31/98	SKELETONEMA COSTATUM GREV+CLEVE	20494.15
WF984	F30	WF9840D5	6.54	3/31/98	THALASSIONEMA NITZSCHIOIDES	1889.51
WF984	F30	WF9840D5	6.54	3/31/98	THALASSIOSIRA NORDENSKIOLDII CLEVE	617.67
WF984	F30	WF9840D5	6.54	3/31/98	THALASSIOSIRA ROTULA	44395.93
WF984	F30	WF9840D5	6.54	3/31/98	THALASSIOSIRA SP. GROUP 3 10-20 MICRONS LENGTH	2560.89
WF984	F30	WF9840D5	6.54	3/31/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	141667.32
WF984	F30	WF9840D5	6.54	3/31/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	15215.34
WF984	F30	WF9840D5	6.54	3/31/98	ATHECATE DINOFLAGELLATE	NA
WF984	F30	WF9840D5	6.54	3/31/98	CERATIUM LONGIPES	98.34
WF984	F30	WF9840D5	6.54	3/31/98	CERATIUM TRIPOS	18.95
WF984	F30	WF9840D5	6.54	3/31/98	DINOPHYSIS NORVEGICA	NA
WF984	F30	WF9840D5	6.54	3/31/98	GYRODINIUM SP. GROUP 3 41-70UM W 51-70UM L	37.54
WF984	F30	WF9840D5	6.54	3/31/98	MESODINIUM RUBRUM	NA
WF984	F30	WF9840D5	6.54	3/31/98	PROTOPERIDIUM DEPRESSUM	120.63
WF984	F30	WF9840D5	6.54	3/31/98	PROTOPERIDIUM PYRIFORME	NA
WF984	F30	WF9840D5	6.54	3/31/98	PROTOPERIDIUM SPP.	23.68
WF984	F30	WF9840D5	6.54	3/31/98	THECATE DINOFLAGELLATE SPP.	NA
WF984	F30	WF9840D6	2.39	3/31/98	ASTERIONELLA FORMOSA	161.83
WF984	F30	WF9840D6	2.39	3/31/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	4606.01
WF984	F30	WF9840D6	2.39	3/31/98	CHAETOCEROS COMPRESSUS	16718.83
WF984	F30	WF9840D6	2.39	3/31/98	CHAETOCEROS SP. GROUP 2 DIAM 10-30 MICRONS	22120.06
WF984	F30	WF9840D6	2.39	3/31/98	CHAETOCEROS SUBTILIS	520.09
WF984	F30	WF9840D6	2.39	3/31/98	CHOANOFLAGELLATE SPP.	332.40
WF984	F30	WF9840D6	2.39	3/31/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	10020.12
WF984	F30	WF9840D6	2.39	3/31/98	CRYPTOMONAS SP. GROUP 2 LENGTH >10 MICRONS	4741.48
WF984	F30	WF9840D6	2.39	3/31/98	DINOBYRON SPP.	419.96
WF984	F30	WF9840D6	2.39	3/31/98	EUTREPTIA/EUTREPTIELLA SPP.	NA
WF984	F30	WF9840D6	2.39	3/31/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	13996.37
WF984	F30	WF9840D6	2.39	3/31/98	GYRODINIUM SP. GROUP 1 5-20UM W 10-20UM L	1749.55
WF984	F30	WF9840D6	2.39	3/31/98	GYROSIGMA SPP.	13717.93
WF984	F30	WF9840D6	2.39	3/31/98	LICMOPHORA SPP.	213.22
WF984	F30	WF9840D6	2.39	3/31/98	NAVICULOID DIATOMS	NA
WF984	F30	WF9840D6	2.39	3/31/98	ODONTELLA AURITA	2702.59
WF984	F30	WF9840D6	2.39	3/31/98	PENNATE DIATOM SP. GROUP 1 <10 MICRONS LENGTH	134.79
WF984	F30	WF9840D6	2.39	3/31/98	PLEUROSIGMA SPP.	1959.99
WF984	F30	WF9840D6	2.39	3/31/98	PSEUDONITZSCHIA PUNGENS	468.08
WF984	F30	WF9840D6	2.39	3/31/98	PYRAMIMONAS SPP.	648.17
WF984	F30	WF9840D6	2.39	3/31/98	RHIZOLENIA SETIGERA	3257.34
WF984	F30	WF9840D6	2.39	3/31/98	SKELETONEMA COSTATUM GREV+CLEVE	10599.23
WF984	F30	WF9840D6	2.39	3/31/98	THALASSIONEMA NITZSCHIOIDES	97.17
WF984	F30	WF9840D6	2.39	3/31/98	THALASSIOSIRA ROTULA	66784.17
WF984	F30	WF9840D6	2.39	3/31/98	THALASSIOSIRA SP. GROUP 3 10-20 MICRONS LENGTH	2716.38
WF984	F30	WF9840D6	2.39	3/31/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	112630.23
WF984	F30	WF9840D6	2.39	3/31/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	20540.71
WF984	F30	WF9840D6	2.39	3/31/98	ATHECATE DINOFLAGELLATE	NA
WF984	F30	WF9840D6	2.39	3/31/98	CERATIUM FUSUS	22.19
WF984	F30	WF9840D6	2.39	3/31/98	CERATIUM LINEATUM	4.78
WF984	F30	WF9840D6	2.39	3/31/98	CERATIUM LONGIPES	479.42
WF984	F30	WF9840D6	2.39	3/31/98	CERATIUM SPP.	38.98
WF984	F30	WF9840D6	2.39	3/31/98	CERATIUM TRIPOS	37.91

Survey	Sta.	Sample Number	Depth (m)	Sampling Date	Plankton	Estimated Carbon Equivalence (ng Carbon/L)
WF984	F30	WF9840D6	2.39	3/31/98	DINOPHYSIS ACUMINATA	0.94
WF984	F30	WF9840D6	2.39	3/31/98	DINOPHYSIS NORVEGICA	NA
WF984	F30	WF9840D6	2.39	3/31/98	DISTEPHANUS SPECULUM	0.60
WF984	F30	WF9840D6	2.39	3/31/98	GYRODINIUM SP. GROUP 3 41-70UM W 51-70UM L	5.36
WF984	F30	WF9840D6	2.39	3/31/98	MESODINIUM RUBRUM	NA
WF984	F30	WF9840D6	2.39	3/31/98	PROTOPERIDINIUM DEPRESSUM	120.63
WF984	F30	WF9840D6	2.39	3/31/98	PROTOPERIDINIUM PYRIFORME	NA
WF984	F23	WF9840EA	9.40	4/1/98	ASTERIONELLA FORMOSA	138.98
WF984	F23	WF9840EA	9.40	4/1/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	2393.32
WF984	F23	WF9840EA	9.40	4/1/98	CERATIUM LONGIPES	157349.88
WF984	F23	WF9840EA	9.40	4/1/98	CHAETOCEROS SP. GROUP 1 DIAM <10 MICRONS	662.73
WF984	F23	WF9840EA	9.40	4/1/98	CHAETOCEROS SP. GROUP 2 DIAM 10-30 MICRONS	18320.81
WF984	F23	WF9840EA	9.40	4/1/98	CHOANOFLLAGELLATE SPP.	326.25
WF984	F23	WF9840EA	9.40	4/1/98	COCCONEIS SCUTELLUM EHRENB.	2467.72
WF984	F23	WF9840EA	9.40	4/1/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	8799.34
WF984	F23	WF9840EA	9.40	4/1/98	CRYPTOMONAS SP. GROUP 2 LENGTH >10 MICRONS	1994.43
WF984	F23	WF9840EA	9.40	4/1/98	CYLINDROTHECA CLOSTERIUM	1529.74
WF984	F23	WF9840EA	9.40	4/1/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	18888.62
WF984	F23	WF9840EA	9.40	4/1/98	GYRODINIUM SPIRALE	17443.59
WF984	F23	WF9840EA	9.40	4/1/98	GYROSIGMA SPP.	1683.23
WF984	F23	WF9840EA	9.40	4/1/98	HETEROCAPSA ROTUNDATA	337.93
WF984	F23	WF9840EA	9.40	4/1/98	LICMOPHORA SPP.	183.11
WF984	F23	WF9840EA	9.40	4/1/98	PARALIA SULCATA	12755.72
WF984	F23	WF9840EA	9.40	4/1/98	PENNATE DIATOM SP. GROUP 1 <10 MICRONS LENGTH	102.88
WF984	F23	WF9840EA	9.40	4/1/98	PENNATE DIATOM SP. GROUP 3 31-60 MICRONS LENGTH	187.55
WF984	F23	WF9840EA	9.40	4/1/98	PSEUDONITZSCHIA DELICATISSIMA	41.89
WF984	F23	WF9840EA	9.40	4/1/98	SKELETONEMA COSTATUM GREV+CLEVE	11053.13
WF984	F23	WF9840EA	9.40	4/1/98	THALASSIONEMA NITZSCHIOIDES	83.45
WF984	F23	WF9840EA	9.40	4/1/98	THALASSIOSIRA ROTULA	83825.07
WF984	F23	WF9840EA	9.40	4/1/98	THALASSIOSIRA SP. GROUP 3 10-20 MICRONS LENGTH	1272.44
WF984	F23	WF9840EA	9.40	4/1/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	113874.14
WF984	F23	WF9840EA	9.40	4/1/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	14112.23
WF984	F23	WF9840EA	9.40	4/1/98	ALEXANDRIUM TAMARENSE	0.51
WF984	F23	WF9840EA	9.40	4/1/98	ATHECATE DINOFLAGELLATE	NA
WF984	F23	WF9840EA	9.40	4/1/98	CERATIUM FUSUS	14.79
WF984	F23	WF9840EA	9.40	4/1/98	CERATIUM LONGIPES	1425.96
WF984	F23	WF9840EA	9.40	4/1/98	CERATIUM SPP.	51.97
WF984	F23	WF9840EA	9.40	4/1/98	CERATIUM TRIPOS	113.72
WF984	F23	WF9840EA	9.40	4/1/98	DINOPHYSIS NORVEGICA	NA
WF984	F23	WF9840EA	9.40	4/1/98	DISTEPHANUS SPECULUM	3.00
WF984	F23	WF9840EA	9.40	4/1/98	PROTOPERIDINIUM PYRIFORME	NA
WF984	F23	WF9840EA	9.40	4/1/98	PROTOPERIDINIUM SPP.	31.57
WF984	F23	WF9840EA	9.40	4/1/98	THECATE DINOFLAGELLATE SPP.	NA
WF984	F23	WF9840F3	2.78	4/1/98	ASTERIONELLA FORMOSA	681.80
WF984	F23	WF9840F3	2.78	4/1/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	4435.42
WF984	F23	WF9840F3	2.78	4/1/98	CHAETOCEROS COMPRESSUS	2683.66
WF984	F23	WF9840F3	2.78	4/1/98	CHAETOCEROS DEBILIS	1095.90
WF984	F23	WF9840F3	2.78	4/1/98	CHAETOCEROS SP. GROUP 2 DIAM 10-30 MICRONS	11539.59
WF984	F23	WF9840F3	2.78	4/1/98	COCCONEIS SCUTELLUM EHRENB.	403.58
WF984	F23	WF9840F3	2.78	4/1/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	8734.88
WF984	F23	WF9840F3	2.78	4/1/98	CRYPTOMONAS SP. GROUP 2 LENGTH >10 MICRONS	1304.53

Survey	Sta.	Sample Number	Depth (m)	Sampling Date	Plankton	Estimated Carbon Equivalence (ng Carbon/L)
WF984	F23	WF9840F3	2.78	4/1/98	CYLINDROTHECA CLOSTERIUM	2401.06
WF984	F23	WF9840F3	2.78	4/1/98	DINOBRYON SPP.	471.80
WF984	F23	WF9840F3	2.78	4/1/98	EUTREPTIA/EUTREPTIELLA SPP.	NA
WF984	F23	WF9840F3	2.78	4/1/98	GRAMMATOPHORA MARINA	252.57
WF984	F23	WF9840F3	2.78	4/1/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	11793.24
WF984	F23	WF9840F3	2.78	4/1/98	GYROSIGMA SPP.	2201.96
WF984	F23	WF9840F3	2.78	4/1/98	MELOSIRA SP. GROUP 1 DIAM <20 MICRONS	2128.23
WF984	F23	WF9840F3	2.78	4/1/98	ODONTELLA AURITA	6072.48
WF984	F23	WF9840F3	2.78	4/1/98	PENNATE DIATOM SP. GROUP 1 <10 MICRONS LENGTH	201.88
WF984	F23	WF9840F3	2.78	4/1/98	PENNATE DIATOM SP. GROUP 3 31-60 MICRONS LENGTH	736.05
WF984	F23	WF9840F3	2.78	4/1/98	PROTOPERIDINIUM BIPES	1364.62
WF984	F23	WF9840F3	2.78	4/1/98	RHIZOLENIA SETIGERA	3659.48
WF984	F23	WF9840F3	2.78	4/1/98	SCENESDESMUS QUADRICAUDA	61.65
WF984	F23	WF9840F3	2.78	4/1/98	SKELETONEMA COSTATUM GREV+CLEVE	12408.10
WF984	F23	WF9840F3	2.78	4/1/98	THALASSIONEMA NITZSCHIOIDES	327.52
WF984	F23	WF9840F3	2.78	4/1/98	THALASSIOSIRA NORDENSKIOLDII CLEVE	642.38
WF984	F23	WF9840F3	2.78	4/1/98	THALASSIOSIRA ROTULA	86572.07
WF984	F23	WF9840F3	2.78	4/1/98	THALASSIOSIRA SP. GROUP 3 10-20 MICRONS LENGTH	1248.44
WF984	F23	WF9840F3	2.78	4/1/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	112378.94
WF984	F23	WF9840F3	2.78	4/1/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	25713.92
WF984	F23	WF9840F3	2.78	4/1/98	ALEXANDRIUM TAMARENSE	1.02
WF984	F23	WF9840F3	2.78	4/1/98	ATHECATE DINOFLAGELLATE	NA
WF984	F23	WF9840F3	2.78	4/1/98	CERATIUM FUSUS	14.79
WF984	F23	WF9840F3	2.78	4/1/98	CERATIUM LONGIPES	1155.52
WF984	F23	WF9840F3	2.78	4/1/98	CERATIUM SPP.	77.96
WF984	F23	WF9840F3	2.78	4/1/98	CERATIUM TRIPOS	113.72
WF984	F23	WF9840F3	2.78	4/1/98	DINOPHYSIS NORVEGICA	NA
WF984	F23	WF9840F3	2.78	4/1/98	DISTEPHANUS SPECULUM	2.40
WF984	F23	WF9840F3	2.78	4/1/98	GYRODINIUM SP. GROUP 3 41-70UM W 51-70UM L	5.36
WF984	F23	WF9840F3	2.78	4/1/98	MESODINIUM RUBRUM	NA
WF984	F23	WF9840F3	2.78	4/1/98	PROTOPERIDINIUM PYRIFORME	NA
WF984	F23	WF9840F3	2.78	4/1/98	PROTOPERIDINIUM SPP.	23.68
WF984	F23	WF9840F3	2.78	4/1/98	THECATE DINOFLAGELLATE SPP.	NA
WF984	N04	WF9840FC	13.90	4/1/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	1669.80
WF984	N04	WF9840FC	13.90	4/1/98	CERATIUM LONGIPES	138962.92
WF984	N04	WF9840FC	13.90	4/1/98	CERATIUM TRIPOS	23806.36
WF984	N04	WF9840FC	13.90	4/1/98	CHOANOFLAGELLATE SPP.	128.04
WF984	N04	WF9840FC	13.90	4/1/98	COSCIDISCUS RADIATUS	7543.40
WF984	N04	WF9840FC	13.90	4/1/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	3128.31
WF984	N04	WF9840FC	13.90	4/1/98	CYLINDROTHECA CLOSTERIUM	240.14
WF984	N04	WF9840FC	13.90	4/1/98	DICTYOCHA SPECULUM	NA
WF984	N04	WF9840FC	13.90	4/1/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	29651.57
WF984	N04	WF9840FC	13.90	4/1/98	GYMNODINIUM SP. GROUP 2 21-40UM W 21-50UM L	27998.16
WF984	N04	WF9840FC	13.90	4/1/98	GYRODINIUM SPIRALE	54758.41
WF984	N04	WF9840FC	13.90	4/1/98	NAVICULOID DIATOMS	NA
WF984	N04	WF9840FC	13.90	4/1/98	PSEUDONITZSCHIA PUNGENS	157.76
WF984	N04	WF9840FC	13.90	4/1/98	SKELETONEMA COSTATUM GREV+CLEVE	210.14
WF984	N04	WF9840FC	13.90	4/1/98	THALASSIONEMA NITZSCHIOIDES	327.52
WF984	N04	WF9840FC	13.90	4/1/98	THALASSIOSIRA NORDENSKIOLDII CLEVE	256.95
WF984	N04	WF9840FC	13.90	4/1/98	THALASSIOSIRA ROTULA	9233.02

Survey	Sta.	Sample Number	Depth (m)	Sampling Date	Plankton	Estimated Carbon Equivalence (ng Carbon/L)
WF984	N04	WF9840FC	13.90	4/1/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	49655.81
WF984	N04	WF9840FC	13.90	4/1/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	9494.37
WF984	N04	WF9840FC	13.90	4/1/98	CERATIUM FUSUS	118.34
WF984	N04	WF9840FC	13.90	4/1/98	CERATIUM LINEATUM	40.64
WF984	N04	WF9840FC	13.90	4/1/98	CERATIUM LONGIPES	16201.86
WF984	N04	WF9840FC	13.90	4/1/98	CERATIUM SPP.	857.51
WF984	N04	WF9840FC	13.90	4/1/98	CERATIUM TRIPOS	1497.31
WF984	N04	WF9840FC	13.90	4/1/98	DINOPHYSIS ACUMINATA	1.89
WF984	N04	WF9840FC	13.90	4/1/98	DINOPHYSIS NORVEGICA	NA
WF984	N04	WF9840FC	13.90	4/1/98	DISTEPHANUS SPECULUM	9.61
WF984	N04	WF9840FC	13.90	4/1/98	MESODINIUM RUBRUM	NA
WF984	N04	WF9840FC	13.90	4/1/98	PROTOPERIDINIUM DEPRESSUM	1085.69
WF984	N04	WF9840FC	13.90	4/1/98	PROTOPERIDINIUM PALLIDUM	60.07
WF984	N04	WF9840FC	13.90	4/1/98	PROTOPERIDINIUM PYRIFORME	NA
WF984	N04	WF9840FC	13.90	4/1/98	PROTOPERIDINIUM SPP.	78.93
WF984	N04	WF9840FE	2.98	4/1/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	1263.14
WF984	N04	WF9840FE	2.98	4/1/98	CERATIUM LONGIPES	314699.76
WF984	N04	WF9840FE	2.98	4/1/98	CERATIUM TRIPOS	60651.69
WF984	N04	WF9840FE	2.98	4/1/98	CHAETOCEROS BOREALIS	1880.34
WF984	N04	WF9840FE	2.98	4/1/98	CHAETOCEROS DEBILIS	8376.13
WF984	N04	WF9840FE	2.98	4/1/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	4037.34
WF984	N04	WF9840FE	2.98	4/1/98	CRYPTOMONAS SP. GROUP 2 LENGTH >10 MICRONS	332.41
WF984	N04	WF9840FE	2.98	4/1/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	17603.30
WF984	N04	WF9840FE	2.98	4/1/98	GYRODINIUM SP. GROUP 1 5-20UM W 10-20UM L	1288.05
WF984	N04	WF9840FE	2.98	4/1/98	NAVICULOID DIATOMS	NA
WF984	N04	WF9840FE	2.98	4/1/98	THALASSIONEMA NITZSCHIOIDES	1335.06
WF984	N04	WF9840FE	2.98	4/1/98	THALASSIOSIRA ROTULA	23526.46
WF984	N04	WF9840FE	2.98	4/1/98	THALASSIOSIRA SP. GROUP 3 10-20 MICRONS LENGTH	954.33
WF984	N04	WF9840FE	2.98	4/1/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	73418.85
WF984	N04	WF9840FE	2.98	4/1/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	14112.23
WF984	N04	WF9840FE	2.98	4/1/98	ATHECATE DINOFLAGELLATE	NA
WF984	N04	WF9840FE	2.98	4/1/98	CERATIUM FUSUS	44.38
WF984	N04	WF9840FE	2.98	4/1/98	CERATIUM LINEATUM	69.32
WF984	N04	WF9840FE	2.98	4/1/98	CERATIUM LONGIPES	10080.07
WF984	N04	WF9840FE	2.98	4/1/98	CERATIUM SPP.	649.63
WF984	N04	WF9840FE	2.98	4/1/98	CERATIUM TRIPOS	1042.43
WF984	N04	WF9840FE	2.98	4/1/98	DINOPHYSIS ACUMINATA	2.83
WF984	N04	WF9840FE	2.98	4/1/98	DINOPHYSIS NORVEGICA	NA
WF984	N04	WF9840FE	2.98	4/1/98	DISTEPHANUS SPECULUM	20.42
WF984	N04	WF9840FE	2.98	4/1/98	MESODINIUM RUBRUM	NA
WF984	N04	WF9840FE	2.98	4/1/98	PROTOPERIDINIUM DEPRESSUM	844.42
WF984	N04	WF9840FE	2.98	4/1/98	PROTOPERIDINIUM PYRIFORME	NA
WF984	N04	WF9840FE	2.98	4/1/98	PROTOPERIDINIUM SPP.	15.79
WF984	N04	WF9840FE	2.98	4/1/98	PROTOPERIDINIUM TROCHOIDIUM	2.64
WF984	N18	WF98411E	10.77	4/1/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	1396.10
WF984	N18	WF98411E	10.77	4/1/98	CERATIUM LONGIPES	94423.52
WF984	N18	WF98411E	10.77	4/1/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	3830.30
WF984	N18	WF98411E	10.77	4/1/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	29191.51
WF984	N18	WF98411E	10.77	4/1/98	GYRODINIUM SPIRALE	69764.32
WF984	N18	WF98411E	10.77	4/1/98	NAVICULOID DIATOMS	NA
WF984	N18	WF98411E	10.77	4/1/98	PENNATE DIATOM SP. GROUP 3 31-60 MICRONS LENGTH	300.08
WF984	N18	WF98411E	10.77	4/1/98	PSEUDONITZSCHIA PUNGENS	602.98

Survey	Sta.	Sample Number	Depth (m)	Sampling Date	Plankton	Estimated Carbon Equivalence (ng Carbon/L)
WF984	N18	WF98411E	10.77	4/1/98	PYRAMIMONAS SPP.	954.26
WF984	N18	WF98411E	10.77	4/1/98	RHIZOSOLENIA FRAGILISSIMA	1062.86
WF984	N18	WF98411E	10.77	4/1/98	THALASSIONEMA NITZSCHIOIDES	801.15
WF984	N18	WF98411E	10.77	4/1/98	THALASSIOSIRA NORDENSKIOLDII CLEVE	130.96
WF984	N18	WF98411E	10.77	4/1/98	THALASSIOSIRA ROTULA	11763.23
WF984	N18	WF98411E	10.77	4/1/98	THALASSIOSIRA SP. GROUP 3 10-20 MICRONS LENGTH	339.32
WF984	N18	WF98411E	10.77	4/1/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	55771.69
WF984	N18	WF98411E	10.77	4/1/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	15120.24
WF984	N18	WF98411E	10.77	4/1/98	CERATIUM FUSUS	36.98
WF984	N18	WF98411E	10.77	4/1/98	CERATIUM LONGIPES	11161.83
WF984	N18	WF98411E	10.77	4/1/98	CERATIUM SPP.	643.13
WF984	N18	WF98411E	10.77	4/1/98	CERATIUM TRIPOS	1336.21
WF984	N18	WF98411E	10.77	4/1/98	DISTEPHANUS SPECULUM	33.63
WF984	N18	WF98411E	10.77	4/1/98	PROTOPERIDINIUM TROCHOIDIUM	1.76
WF984	N18	WF984120	2.93	4/1/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	1200.17
WF984	N18	WF984120	2.93	4/1/98	CERATIUM LONGIPES	262485.52
WF984	N18	WF984120	2.93	4/1/98	CHAETOCEROS COMPRESSUS	1610.19
WF984	N18	WF984120	2.93	4/1/98	CHAETOCEROS SP. GROUP 2 DIAM 10-30 MICRONS	2130.39
WF984	N18	WF984120	2.93	4/1/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	3250.19
WF984	N18	WF984120	2.93	4/1/98	DICTYOCHA SPECULUM	NA
WF984	N18	WF984120	2.93	4/1/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	12130.19
WF984	N18	WF984120	2.93	4/1/98	PENNATE DIATOM SP. GROUP 2 10-30 MICRONS LENGTH	617.70
WF984	N18	WF984120	2.93	4/1/98	PSEUDONITZSCHIA PUNGENS	1025.44
WF984	N18	WF984120	2.93	4/1/98	THALASSIOSIRA ROTULA	6925.77
WF984	N18	WF984120	2.93	4/1/98	THALASSIOSIRA SP. GROUP 3 10-20 MICRONS LENGTH	499.37
WF984	N18	WF984120	2.93	4/1/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	45996.96
WF984	N18	WF984120	2.93	4/1/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	15823.95
WF984	N18	WF984120	2.93	4/1/98	CERATIUM FUSUS	59.17
WF984	N18	WF984120	2.93	4/1/98	CERATIUM LINEATUM	57.37
WF984	N18	WF984120	2.93	4/1/98	CERATIUM LONGIPES	12931.99
WF984	N18	WF984120	2.93	4/1/98	CERATIUM SPP.	870.50
WF984	N18	WF984120	2.93	4/1/98	CERATIUM TRIPOS	1592.08
WF984	N18	WF984120	2.93	4/1/98	DINOPHYSIS NORVEGICA	NA
WF984	N18	WF984120	2.93	4/1/98	DISTEPHANUS SPECULUM	59.45
WF984	N18	WF984120	2.93	4/1/98	MESODINIUM RUBRUM	NA
WF984	N18	WF984120	2.93	4/1/98	PROTOPERIDINIUM DEPRESSUM	60.32
WF984	N18	WF984120	2.93	4/1/98	PROTOPERIDINIUM PALLIDUM	40.05
WF984	N18	WF984120	2.93	4/1/98	PROTOPERIDINIUM SPP.	7.89
WF984	N18	WF984120	2.93	4/1/98	PROTOPERIDINIUM TROCHOIDIUM	0.88
WF984	F25	WF9841E8	6.12	4/1/98	ASTERIONELLA FORMOSA	136.36
WF984	F25	WF9841E8	6.12	4/1/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	2348.16
WF984	F25	WF9841E8	6.12	4/1/98	CERATIUM LONGIPES	115802.43
WF984	F25	WF9841E8	6.12	4/1/98	CHAETOCEROS COMPRESSUS	4025.48
WF984	F25	WF9841E8	6.12	4/1/98	CHAETOCEROS SP. GROUP 1 DIAM <10 MICRONS	2275.79
WF984	F25	WF9841E8	6.12	4/1/98	CHAETOCEROS SP. GROUP 2 DIAM 10-30 MICRONS	11983.42
WF984	F25	WF9841E8	6.12	4/1/98	CHOANOFAGELLATE SPP.	320.09
WF984	F25	WF9841E8	6.12	4/1/98	COCCONEIS SCUTELLUM EHRENB.	2421.16
WF984	F25	WF9841E8	6.12	4/1/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	8633.32
WF984	F25	WF9841E8	6.12	4/1/98	EUTREPTIA/EUTREPTIELLA SPP.	NA
WF984	F25	WF9841E8	6.12	4/1/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	15162.74
WF984	F25	WF9841E8	6.12	4/1/98	GYROSIGMA SPP.	3302.94
WF984	F25	WF9841E8	6.12	4/1/98	NAVICULOID DIATOMS	NA

Survey	Sta.	Sample Number	Depth (m)	Sampling Date	Plankton	Estimated Carbon Equivalence (ng Carbon/L)
WF984	F25	WF9841E8	6.12	4/1/98	PENNATE DIATOM SP. GROUP 2 10-30 MICRONS LENGTH	386.12
WF984	F25	WF9841E8	6.12	4/1/98	PSEUDONITZSCHIA PUNGENS	2366.06
WF984	F25	WF9841E8	6.12	4/1/98	RHIZOLENIA SETIGERA	21953.69
WF984	F25	WF9841E8	6.12	4/1/98	SKELETONEMA COSTATUM GREV+CLEVE	17786.61
WF984	F25	WF9841E8	6.12	4/1/98	THALASSIOSIRA NORDENSKIOLDII CLEVE	722.78
WF984	F25	WF9841E8	6.12	4/1/98	THALASSIOSIRA ROTULA	69257.66
WF984	F25	WF9841E8	6.12	4/1/98	THALASSIOSIRA SP. GROUP 3 10-20 MICRONS LENGTH	4993.74
WF984	F25	WF9841E8	6.12	4/1/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	103558.50
WF984	F25	WF9841E8	6.12	4/1/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	31647.90
WF984	F25	WF9841E8	6.12	4/1/98	ATHECATE DINOFLAGELLATE	NA
WF984	F25	WF9841E8	6.12	4/1/98	CERATIUM FUSUS	22.19
WF984	F25	WF9841E8	6.12	4/1/98	CERATIUM LINEATUM	11.95
WF984	F25	WF9841E8	6.12	4/1/98	CERATIUM LONGIPES	2065.18
WF984	F25	WF9841E8	6.12	4/1/98	CERATIUM SPP.	136.42
WF984	F25	WF9841E8	6.12	4/1/98	CERATIUM TRIPOS	104.24
WF984	F25	WF9841E8	6.12	4/1/98	DINOPHYSIS ACUMINATA	0.94
WF984	F25	WF9841E8	6.12	4/1/98	DINOPHYSIS NORVEGICA	NA
WF984	F25	WF9841E8	6.12	4/1/98	DISTEPHANUS SPECULUM	7.21
WF984	F25	WF9841E8	6.12	4/1/98	GYRODINIUM SP. GROUP 3 41-70UM W 51-70UM L	5.36
WF984	F25	WF9841E8	6.12	4/1/98	MESODINIUM RUBRUM	NA
WF984	F25	WF9841E8	6.12	4/1/98	PROTOPERIDINIUM DEPRESSUM	120.63
WF984	F25	WF9841E8	6.12	4/1/98	PROTOPERIDINIUM PALLIDUM	40.05
WF984	F25	WF9841E8	6.12	4/1/98	PROTOPERIDINIUM PYRIFORME	NA
WF984	F25	WF9841E8	6.12	4/1/98	PROTOPERIDINIUM SPP.	19.73
WF984	F25	WF9841E8	6.12	4/1/98	THECATE DINOFLAGELLATE SPP.	NA
WF984	F25	WF9841EA	2.81	4/1/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	2814.78
WF984	F25	WF9841EA	2.81	4/1/98	CERATIUM TRIPOS	23348.54
WF984	F25	WF9841EA	2.81	4/1/98	CHAETOCEROS DEBILIS	6448.04
WF984	F25	WF9841EA	2.81	4/1/98	CHAETOCEROS SP. GROUP 1 DIAM <10 MICRONS	3826.33
WF984	F25	WF9841EA	2.81	4/1/98	CHAETOCEROS SP. GROUP 2 DIAM 10-30 MICRONS	5222.79
WF984	F25	WF9841EA	2.81	4/1/98	CHOANOFLAGELLATE SPP.	313.93
WF984	F25	WF9841EA	2.81	4/1/98	COSCINODISCUS RADIATUS	7398.33
WF984	F25	WF9841EA	2.81	4/1/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	8068.83
WF984	F25	WF9841EA	2.81	4/1/98	DICTYOCHA SPECULUM	NA
WF984	F25	WF9841EA	2.81	4/1/98	EUTREPTIA/EUTREPTIELLA SPP.	NA
WF984	F25	WF9841EA	2.81	4/1/98	GRAMMATOPHORA MARINA	297.26
WF984	F25	WF9841EA	2.81	4/1/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	41308.74
WF984	F25	WF9841EA	2.81	4/1/98	GYRODINIUM SPIRALE	53713.10
WF984	F25	WF9841EA	2.81	4/1/98	NAVICULOID DIATOMS	NA
WF984	F25	WF9841EA	2.81	4/1/98	PARALIA SULCATA	6137.19
WF984	F25	WF9841EA	2.81	4/1/98	PENNATE DIATOM SP. GROUP 2 10-30 MICRONS LENGTH	403.94
WF984	F25	WF9841EA	2.81	4/1/98	PSEUDONITZSCHIA PUNGENS	309.45
WF984	F25	WF9841EA	2.81	4/1/98	PYRAMIMONAS SPP.	612.16
WF984	F25	WF9841EA	2.81	4/1/98	RHIZOLENIA DELICATULA	10448.51
WF984	F25	WF9841EA	2.81	4/1/98	SKELETONEMA COSTATUM GREV+CLEVE	13602.34
WF984	F25	WF9841EA	2.81	4/1/98	THALASSIONEMA NITZSCHIOIDES	128.49
WF984	F25	WF9841EA	2.81	4/1/98	THALASSIOSIRA NORDENSKIOLDII CLEVE	1071.19
WF984	F25	WF9841EA	2.81	4/1/98	THALASSIOSIRA ROTULA	88303.51
WF984	F25	WF9841EA	2.81	4/1/98	THALASSIOSIRA SP. GROUP 3 10-20 MICRONS LENGTH	6203.76

Survey	Sta.	Sample Number	Depth (m)	Sampling Date	Plankton	Estimated Carbon Equivalence (ng Carbon/L)
WF984	F25	WF9841EA	2.81	4/1/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	127199.04
WF984	F25	WF9841EA	2.81	4/1/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	25219.42
WF984	F25	WF9841EA	2.81	4/1/98	ATHECATE DINOFLAGELLATE	NA
WF984	F25	WF9841EA	2.81	4/1/98	CERATIUM FUSUS	29.59
WF984	F25	WF9841EA	2.81	4/1/98	CERATIUM LINEATUM	16.73
WF984	F25	WF9841EA	2.81	4/1/98	CERATIUM LONGIPES	2114.36
WF984	F25	WF9841EA	2.81	4/1/98	CERATIUM SPP.	168.90
WF984	F25	WF9841EA	2.81	4/1/98	CERATIUM TRIPOS	161.10
WF984	F25	WF9841EA	2.81	4/1/98	DINOPHYSIS ACUMINATA	4.72
WF984	F25	WF9841EA	2.81	4/1/98	DINOPHYSIS NORVEGICA	NA
WF984	F25	WF9841EA	2.81	4/1/98	GYRODINIUM SP. GROUP 3 41-70UM W 51-70UM L	10.73
WF984	F25	WF9841EA	2.81	4/1/98	MESODINIUM RUBRUM	NA
WF984	F25	WF9841EA	2.81	4/1/98	PROTOPERIDINIUM DEPRESSUM	180.95
WF984	F25	WF9841EA	2.81	4/1/98	PROTOPERIDINIUM PALLIDUM	60.07
WF984	F25	WF9841EA	2.81	4/1/98	PROTOPERIDINIUM SPP.	15.79
WF984	F24	WF9841F8	5.87	4/2/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	2809.77
WF984	F24	WF9841F8	5.87	4/2/98	CERATIUM FUSUS	31261.39
WF984	F24	WF9841F8	5.87	4/2/98	CERATIUM LONGIPES	311730.89
WF984	F24	WF9841F8	5.87	4/2/98	CHAETOCEROS BOREALIS	9932.45
WF984	F24	WF9841F8	5.87	4/2/98	CHAETOCEROS SEPTENTRIONALIS	NA
WF984	F24	WF9841F8	5.87	4/2/98	CHAETOCEROS SP. GROUP 1 DIAM <10 MICRONS	510.67
WF984	F24	WF9841F8	5.87	4/2/98	CHAETOCEROS SP. GROUP 2 DIAM 10-30 MICRONS	43011.22
WF984	F24	WF9841F8	5.87	4/2/98	CHAETOCEROS TORTISSIMUS (EHRENBERG 1844) Diatom species	NA
WF984	F24	WF9841F8	5.87	4/2/98	CHOANOFAGELLATE SPP.	430.89
WF984	F24	WF9841F8	5.87	4/2/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	5195.62
WF984	F24	WF9841F8	5.87	4/2/98	CYLINDROTHECA CLOSTERIUM	1616.10
WF984	F24	WF9841F8	5.87	4/2/98	DICTYOCHA SPECULUM	NA
WF984	F24	WF9841F8	5.87	4/2/98	EUTREPTIA/EUTREPTIELLA SPP.	NA
WF984	F24	WF9841F8	5.87	4/2/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	17009.48
WF984	F24	WF9841F8	5.87	4/2/98	GYMNODINIUM SP. GROUP 2 21-40UM W 21-50UM L	6979.60
WF984	F24	WF9841F8	5.87	4/2/98	GYRODINIUM SPIRALE	30718.27
WF984	F24	WF9841F8	5.87	4/2/98	PENNATE DIATOM SP. GROUP 2 10-30 MICRONS LENGTH	404.27
WF984	F24	WF9841F8	5.87	4/2/98	PSEUDONITZSCHIA PUNGENS	619.41
WF984	F24	WF9841F8	5.87	4/2/98	SKELETONEMA COSTATUM GREV+CLEVE	8048.52
WF984	F24	WF9841F8	5.87	4/2/98	THALASSIONEMA NITZSCHIOIDES	220.44
WF984	F24	WF9841F8	5.87	4/2/98	THALASSIOSIRA ROTULA	81577.53
WF984	F24	WF9841F8	5.87	4/2/98	THALASSIOSIRA SP. GROUP 3 10-20 MICRONS LENGTH	1680.59
WF984	F24	WF9841F8	5.87	4/2/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	79817.44
WF984	F24	WF9841F8	5.87	4/2/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	7988.05
WF984	F24	WF9841F8	5.87	4/2/98	AMYLAX TRIACANTHA	2.12
WF984	F24	WF9841F8	5.87	4/2/98	ATHECATE DINOFLAGELLATE	NA
WF984	F24	WF9841F8	5.87	4/2/98	CERATIUM FUSUS	214.50
WF984	F24	WF9841F8	5.87	4/2/98	CERATIUM LINEATUM	22.18
WF984	F24	WF9841F8	5.87	4/2/98	CERATIUM LONGIPES	10209.88
WF984	F24	WF9841F8	5.87	4/2/98	CERATIUM SPP.	572.71
WF984	F24	WF9841F8	5.87	4/2/98	CERATIUM TRIPOS	527.66
WF984	F24	WF9841F8	5.87	4/2/98	DINOPHYSIS ACUMINATA	9.32
WF984	F24	WF9841F8	5.87	4/2/98	DISTEPHANUS SPECULUM	6.62
WF984	F24	WF9841F8	5.87	4/2/98	MESODINIUM RUBRUM	NA
WF984	F24	WF9841F8	5.87	4/2/98	PROTOPERIDINIUM BREVIPES	8.24

Survey	Sta.	Sample Number	Depth (m)	Sampling Date	Plankton	Estimated Carbon Equivalence (ng Carbon/L)
WF984	F24	WF9841F8	5.87	4/2/98	PROTOPERIDINIUM SPP.	119.03
WF984	F24	WF9841F8	5.87	4/2/98	THECATE DINOFLAGELLATE SPP.	NA
WF984	F24	WF9841FA	2.67	4/2/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	3522.24
WF984	F24	WF9841FA	2.67	4/2/98	CERATIUM FUSUS	32154.57
WF984	F24	WF9841FA	2.67	4/2/98	CERATIUM LONGIPES	137435.86
WF984	F24	WF9841FA	2.67	4/2/98	CHAETOCEROS BOREALIS	2189.51
WF984	F24	WF9841FA	2.67	4/2/98	CHAETOCEROS COMPRESSUS	6569.06
WF984	F24	WF9841FA	2.67	4/2/98	CHAETOCEROS SEPTENTRIONALIS	NA
WF984	F24	WF9841FA	2.67	4/2/98	CHAETOCEROS SP. GROUP 2 DIAM 10-30 MICRONS	16592.43
WF984	F24	WF9841FA	2.67	4/2/98	CHOANOFLLAGELLATE SPP.	221.60
WF984	F24	WF9841FA	2.67	4/2/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	6398.81
WF984	F24	WF9841FA	2.67	4/2/98	CYLINDROTHECA CLOSTERIUM	1068.76
WF984	F24	WF9841FA	2.67	4/2/98	DICTYOCHA SPECULUM	NA
WF984	F24	WF9841FA	2.67	4/2/98	EUTREPTIA/EUTREPTIELLA SPP.	NA
WF984	F24	WF9841FA	2.67	4/2/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	33824.57
WF984	F24	WF9841FA	2.67	4/2/98	GYRODINIUM SPIRALE	60935.02
WF984	F24	WF9841FA	2.67	4/2/98	HETEROCAPSA ROTUNDATA	229.53
WF984	F24	WF9841FA	2.67	4/2/98	NAVICULOID DIATOMS	NA
WF984	F24	WF9841FA	2.67	4/2/98	PENNATE DIATOM SP. GROUP 2 10-30 MICRONS LENGTH	712.73
WF984	F24	WF9841FA	2.67	4/2/98	PSEUDONITZSCHIA PUNGENS	1521.26
WF984	F24	WF9841FA	2.67	4/2/98	RHIZOLENIA SETIGERA	3257.34
WF984	F24	WF9841FA	2.67	4/2/98	SKELETONEMA COSTATUM GREV+CLEVE	9307.72
WF984	F24	WF9841FA	2.67	4/2/98	THALASSIONEMA NITZSCHIOIDES	874.57
WF984	F24	WF9841FA	2.67	4/2/98	THALASSIOSIRA ROTULA	116444.19
WF984	F24	WF9841FA	2.67	4/2/98	THALASSIOSIRA SP. GROUP 3 10-20 MICRONS LENGTH	2716.38
WF984	F24	WF9841FA	2.67	4/2/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	86621.24
WF984	F24	WF9841FA	2.67	4/2/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	19171.33
WF984	F24	WF9841FA	2.67	4/2/98	ATHECATE DINOFLAGELLATE	NA
WF984	F24	WF9841FA	2.67	4/2/98	CERATIUM FUSUS	131.31
WF984	F24	WF9841FA	2.67	4/2/98	CERATIUM LINEATUM	33.95
WF984	F24	WF9841FA	2.67	4/2/98	CERATIUM LONGIPES	12657.84
WF984	F24	WF9841FA	2.67	4/2/98	CERATIUM SPP.	699.68
WF984	F24	WF9841FA	2.67	4/2/98	CERATIUM TRIPOS	1245.00
WF984	F24	WF9841FA	2.67	4/2/98	DINOPHYSIS ACUMINATA	6.71
WF984	F24	WF9841FA	2.67	4/2/98	DISTEPHANUS SPECULUM	12.79
WF984	F24	WF9841FA	2.67	4/2/98	GYRODINIUM SP. GROUP 3 41-70UM W 51-70UM L	6.35
WF984	F24	WF9841FA	2.67	4/2/98	HETEROCAPSA TRIQUETRA	1.12
WF984	F24	WF9841FA	2.67	4/2/98	MESODINIUM RUBRUM	NA
WF984	F24	WF9841FA	2.67	4/2/98	PROTOPERIDINIUM BREVIPES	16.82
WF984	F24	WF9841FA	2.67	4/2/98	PROTOPERIDINIUM DEPRESSUM	642.49
WF984	F24	WF9841FA	2.67	4/2/98	PROTOPERIDINIUM SPP.	14.01
WF984	N16	WF984204	15.92	4/2/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	991.45
WF984	N16	WF984204	15.92	4/2/98	CERATIUM FUSUS	18578.20
WF984	N16	WF984204	15.92	4/2/98	CERATIUM LONGIPES	154403.25
WF984	N16	WF984204	15.92	4/2/98	CERATIUM TRIPOS	11903.18
WF984	N16	WF984204	15.92	4/2/98	CHAETOCEROS COMPRESSUS	2415.29
WF984	N16	WF984204	15.92	4/2/98	CHAETOCEROS SP. GROUP 2 DIAM 10-30 MICRONS	2662.98
WF984	N16	WF984204	15.92	4/2/98	CHOANOFLLAGELLATE SPP.	128.04
WF984	N16	WF984204	15.92	4/2/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	3128.31
WF984	N16	WF984204	15.92	4/2/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	20890.88
WF984	N16	WF984204	15.92	4/2/98	GYMNODINIUM SP. GROUP 2 21-40UM W 21-50UM L	9332.72

Survey	Sta.	Sample Number	Depth (m)	Sampling Date	Plankton	Estimated Carbon Equivalence (ng Carbon/L)
WF984	N16	WF984204	15.92	4/2/98	GYRODINIUM SPIRALE	54758.41
WF984	N16	WF984204	15.92	4/2/98	NAVICULOID DIATOMS	NA
WF984	N16	WF984204	15.92	4/2/98	PENNATE DIATOM SP. GROUP 3 31-60 MICRONS LENGTH	294.42
WF984	N16	WF984204	15.92	4/2/98	PSEUDONITZSCHIA PUNGENS	552.16
WF984	N16	WF984204	15.92	4/2/98	THALASSIONEMA NITZSCHIOIDES	523.95
WF984	N16	WF984204	15.92	4/2/98	THALASSIOSIRA ROTULA	13849.54
WF984	N16	WF984204	15.92	4/2/98	THALASSIOSIRA SP. GROUP 3 10-20 MICRONS LENGTH	416.15
WF984	N16	WF984204	15.92	4/2/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	38156.57
WF984	N16	WF984204	15.92	4/2/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	6329.58
WF984	N16	WF984204	15.92	4/2/98	ATHECATE DINOFLAGELLATE	NA
WF984	N16	WF984204	15.92	4/2/98	CERATIUM FUSUS	205.03
WF984	N16	WF984204	15.92	4/2/98	CERATIUM LINEATUM	44.18
WF984	N16	WF984204	15.92	4/2/98	CERATIUM LONGIPES	10774.36
WF984	N16	WF984204	15.92	4/2/98	CERATIUM SPP.	240.10
WF984	N16	WF984204	15.92	4/2/98	CERATIUM TRIPOS	1325.98
WF984	N16	WF984204	15.92	4/2/98	DINOPHYSIS ACUMINATA	4.99
WF984	N16	WF984204	15.92	4/2/98	DISTEPHANUS SPECULUM	17.44
WF984	N16	WF984204	15.92	4/2/98	GYRODINIUM SP. GROUP 3 41-70UM W 51-70UM L	21.24
WF984	N16	WF984204	15.92	4/2/98	HETEROCAPSA TRIQUETRA	0.62
WF984	N16	WF984204	15.92	4/2/98	MESODINIUM RUBRUM	NA
WF984	N16	WF984204	15.92	4/2/98	PROTOPERIDINIUM DEPRESSUM	318.47
WF984	N16	WF984204	15.92	4/2/98	PROTOPERIDINIUM SPP.	72.93
WF984	N16	WF984206	2.32	4/2/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	1279.45
WF984	N16	WF984206	2.32	4/2/98	CERATIUM LONGIPES	302867.91
WF984	N16	WF984206	2.32	4/2/98	CHAETOCEROS COMPRESSUS	789.61
WF984	N16	WF984206	2.32	4/2/98	CHAETOCEROS SP. GROUP 2 DIAM 10-30 MICRONS	4701.19
WF984	N16	WF984206	2.32	4/2/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	2390.76
WF984	N16	WF984206	2.32	4/2/98	CYLINDROTHECA CLOSTERIUM	1569.93
WF984	N16	WF984206	2.32	4/2/98	DICTYOCHA SPECULUM	NA
WF984	N16	WF984206	2.32	4/2/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	9914.10
WF984	N16	WF984206	2.32	4/2/98	GYMNODINIUM SP. GROUP 2 21-40UM W 21-50UM L	3051.08
WF984	N16	WF984206	2.32	4/2/98	NAVICULOID DIATOMS	NA
WF984	N16	WF984206	2.32	4/2/98	PROTOPERIDINIUM PELLUCIDUM	9275.48
WF984	N16	WF984206	2.32	4/2/98	PSEUDONITZSCHIA PUNGENS	309.45
WF984	N16	WF984206	2.32	4/2/98	RHIZOLENIA FRAGILISSIMA	1022.75
WF984	N16	WF984206	2.32	4/2/98	RHIZOLENIA SETIGERA	2153.46
WF984	N16	WF984206	2.32	4/2/98	SKELETONEMA COSTATUM GREV+CLEVE	58.88
WF984	N16	WF984206	2.32	4/2/98	THALASSIONEMA NITZSCHIOIDES	64.24
WF984	N16	WF984206	2.32	4/2/98	THALASSIOSIRA ROTULA	4528.39
WF984	N16	WF984206	2.32	4/2/98	THALASSIOSIRA SP. GROUP 3 10-20 MICRONS LENGTH	734.66
WF984	N16	WF984206	2.32	4/2/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	42506.48
WF984	N16	WF984206	2.32	4/2/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	9699.78
WF984	N16	WF984206	2.32	4/2/98	CERATIUM FUSUS	118.79
WF984	N16	WF984206	2.32	4/2/98	CERATIUM LINEATUM	55.84
WF984	N16	WF984206	2.32	4/2/98	CERATIUM LONGIPES	10876.14
WF984	N16	WF984206	2.32	4/2/98	CERATIUM TRIPOS	1674.15
WF984	N16	WF984206	2.32	4/2/98	DINOPHYSIS ACUMINATA	4.83
WF984	N16	WF984206	2.32	4/2/98	MESODINIUM RUBRUM	NA
WF984	N16	WF984206	2.32	4/2/98	PROTOPERIDINIUM DEPRESSUM	88.06
WF984	N16	WF984206	2.32	4/2/98	PROTOPERIDINIUM SPP.	34.57
WF984	F13	WF984249	12.10	4/2/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	2032.06

Survey	Sta.	Sample Number	Depth (m)	Sampling Date	Plankton	Estimated Carbon Equivalence (ng Carbon/L)
WF984	F13	WF984249	12.10	4/2/98	CHAETOCEROS SP. GROUP 1 DIAM <10 MICRONS	1519.28
WF984	F13	WF984249	12.10	4/2/98	CHAETOCEROS SP. GROUP 2 DIAM 10-30 MICRONS	11060.03
WF984	F13	WF984249	12.10	4/2/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	4324.47
WF984	F13	WF984249	12.10	4/2/98	CYLINDROTHECA CLOSTERIUM	498.75
WF984	F13	WF984249	12.10	4/2/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	7872.96
WF984	F13	WF984249	12.10	4/2/98	GYMNODINIUM SP. GROUP 2 21-40UM W 21-50UM L	3230.56
WF984	F13	WF984249	12.10	4/2/98	PARALIA SULCATA	866.55
WF984	F13	WF984249	12.10	4/2/98	PENNATE DIATOM SP. GROUP 2 10-30 MICRONS LENGTH	213.85
WF984	F13	WF984249	12.10	4/2/98	PSEUDONITZSCHIA PUNGENS	1064.88
WF984	F13	WF984249	12.10	4/2/98	SKELETONEMA COSTATUM GREV+CLEVE	4270.86
WF984	F13	WF984249	12.10	4/2/98	THALASSIONEMA NITZSCHIOIDES	136.04
WF984	F13	WF984249	12.10	4/2/98	THALASSIOSIRA ROTULA	92299.15
WF984	F13	WF984249	12.10	4/2/98	THALASSIOSIRA SP. GROUP 3 10-20 MICRONS LENGTH	2592.90
WF984	F13	WF984249	12.10	4/2/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	62082.33
WF984	F13	WF984249	12.10	4/2/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	1027.04
WF984	F13	WF984249	12.10	4/2/98	CERATIUM FUSUS	60.36
WF984	F13	WF984249	12.10	4/2/98	CERATIUM LINEATUM	9.75
WF984	F13	WF984249	12.10	4/2/98	CERATIUM LONGIPES	3034.35
WF984	F13	WF984249	12.10	4/2/98	CERATIUM SPP.	212.04
WF984	F13	WF984249	12.10	4/2/98	CERATIUM TRIPOS	347.98
WF984	F13	WF984249	12.10	4/2/98	DINOPHYSIS ACUMINATA	4.34
WF984	F13	WF984249	12.10	4/2/98	DISTEPHANUS SPECULUM	3.06
WF984	F13	WF984249	12.10	4/2/98	GYMNODINIUM SPP. (30UM)	NA
WF984	F13	WF984249	12.10	4/2/98	GYRODINIUM SP. GROUP 3 41-70UM W 51-70UM L	5.47
WF984	F13	WF984249	12.10	4/2/98	MESODINIUM RUBRUM	NA
WF984	F13	WF984249	12.10	4/2/98	PROTOPERIDINIUM PYRIFORME	NA
WF984	F13	WF984249	12.10	4/2/98	PROTOPERIDINIUM SPP.	24.15
WF984	F13	WF98424B	2.60	4/2/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	913.17
WF984	F13	WF98424B	2.60	4/2/98	CERATIUM LONGIPES	92641.95
WF984	F13	WF98424B	2.60	4/2/98	CHAETOCEROS SEPTENTRIONALIS	NA
WF984	F13	WF98424B	2.60	4/2/98	CHAETOCEROS SP. GROUP 1 DIAM <10 MICRONS	975.34
WF984	F13	WF98424B	2.60	4/2/98	CHAETOCEROS SP. GROUP 2 DIAM 10-30 MICRONS	26626.00
WF984	F13	WF98424B	2.60	4/2/98	CHAETOCEROS SUBTILIS	701.16
WF984	F13	WF98424B	2.60	4/2/98	CHOANOFLLAGELLATE SPP.	160.04
WF984	F13	WF98424B	2.60	4/2/98	COCCONEIS SCUTELLUM EHRENB.	1210.58
WF984	F13	WF98424B	2.60	4/2/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	3250.19
WF984	F13	WF98424B	2.60	4/2/98	DICTYOCHA SPECULUM	NA
WF984	F13	WF98424B	2.60	4/2/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	10108.49
WF984	F13	WF98424B	2.60	4/2/98	NAVICULOID DIATOMS	NA
WF984	F13	WF98424B	2.60	4/2/98	PSEUDONITZSCHIA DELICATISSIMA	65.75
WF984	F13	WF98424B	2.60	4/2/98	PSEUDONITZSCHIA PUNGENS	788.80
WF984	F13	WF98424B	2.60	4/2/98	SKELETONEMA COSTATUM GREV+CLEVE	12247.99
WF984	F13	WF98424B	2.60	4/2/98	THALASSIONEMA NITZSCHIOIDES	262.01
WF984	F13	WF98424B	2.60	4/2/98	THALASSIOSIRA NORDENSKIOLDII CLEVE	449.73
WF984	F13	WF98424B	2.60	4/2/98	THALASSIOSIRA ROTULA	178889.85
WF984	F13	WF98424B	2.60	4/2/98	THALASSIOSIRA SP. GROUP 3 10-20 MICRONS LENGTH	4993.02
WF984	F13	WF98424B	2.60	4/2/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	67133.35
WF984	F13	WF98424B	2.60	4/2/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	5933.98
WF984	F13	WF98424B	2.60	4/2/98	ATHECATE DINOFLAGELLATE	NA
WF984	F13	WF98424B	2.60	4/2/98	CERATIUM FUSUS	30.18

Survey	Sta.	Sample Number	Depth (m)	Sampling Date	Plankton	Estimated Carbon Equivalence (ng Carbon/L)
WF984	F13	WF98424B	2.60	4/2/98	CERATIUM LINEATUM	26.82
WF984	F13	WF98424B	2.60	4/2/98	CERATIUM LONGIPES	3260.04
WF984	F13	WF98424B	2.60	4/2/98	CERATIUM SPP.	145.78
WF984	F13	WF98424B	2.60	4/2/98	CERATIUM TRIPOS	347.98
WF984	F13	WF98424B	2.60	4/2/98	DINOPHYSIS ACUMINATA	2.41
WF984	F13	WF98424B	2.60	4/2/98	DISTEPHANUS SPECULUM	5.51
WF984	F13	WF98424B	2.60	4/2/98	MESODINIUM RUBRUM	NA
WF984	F13	WF98424B	2.60	4/2/98	PROTOPERIDINIUM SPP.	12.08
WF984	F06	WF98426B	15.07	4/2/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	652.27
WF984	F06	WF98426B	15.07	4/2/98	CERATIUM LONGIPES	92641.95
WF984	F06	WF98426B	15.07	4/2/98	CERATIUM TRIPOS	11903.18
WF984	F06	WF98426B	15.07	4/2/98	CHAETOCEROS BOREALIS	1475.89
WF984	F06	WF98426B	15.07	4/2/98	CHAETOCEROS COMPRESSUS	2012.74
WF984	F06	WF98426B	15.07	4/2/98	CHAETOCEROS SP. GROUP 2 DIAM 10-30 MICRONS	10650.40
WF984	F06	WF98426B	15.07	4/2/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	880.26
WF984	F06	WF98426B	15.07	4/2/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	15162.74
WF984	F06	WF98426B	15.07	4/2/98	GYMNODINIUM SP. GROUP 2 21-40UM W 21-50UM L	3110.91
WF984	F06	WF98426B	15.07	4/2/98	NAVICULOID DIATOMS	NA
WF984	F06	WF98426B	15.07	4/2/98	PSEUDONITZSCHIA PUNGENS	1893.12
WF984	F06	WF98426B	15.07	4/2/98	RHIZOLENIA DELICATULA	710.33
WF984	F06	WF98426B	15.07	4/2/98	THALASSIONEMA NITZSCHIOIDES	524.02
WF984	F06	WF98426B	15.07	4/2/98	THALASSIOSIRA ROTULA	20777.30
WF984	F06	WF98426B	15.07	4/2/98	THALASSIOSIRA SP. GROUP 3 10-20 MICRONS LENGTH	554.78
WF984	F06	WF98426B	15.07	4/2/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	37024.07
WF984	F06	WF98426B	15.07	4/2/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	2637.33
WF984	F06	WF98426B	15.07	4/2/98	ATHECATE DINOFLAGELLATE	NA
WF984	F06	WF98426B	15.07	4/2/98	CERATIUM FUSUS	51.48
WF984	F06	WF98426B	15.07	4/2/98	CERATIUM LINEATUM	19.41
WF984	F06	WF98426B	15.07	4/2/98	CERATIUM LONGIPES	6302.75
WF984	F06	WF98426B	15.07	4/2/98	CERATIUM TRIPOS	1648.94
WF984	F06	WF98426B	15.07	4/2/98	DINOPHYSIS ACUMINATA	2.19
WF984	F06	WF98426B	15.07	4/2/98	DISTEPHANUS SPECULUM	20.90
WF984	F06	WF98426B	15.07	4/2/98	GYRODINIUM SP. GROUP 3 41-70UM W 51-70UM L	6.22
WF984	F06	WF98426B	15.07	4/2/98	MESODINIUM RUBRUM	NA
WF984	F06	WF98426B	15.07	4/2/98	PROTOPERIDINIUM DEPRESSUM	419.80
WF984	F06	WF98426B	15.07	4/2/98	PROTOPERIDINIUM SPP.	54.94
WF984	F06	WF98426D	2.24	4/2/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	1595.55
WF984	F06	WF98426D	2.24	4/2/98	CERATIUM FUSUS	4734.55
WF984	F06	WF98426D	2.24	4/2/98	CERATIUM LONGIPES	125898.03
WF984	F06	WF98426D	2.24	4/2/98	CHAETOCEROS BOREALIS	1504.27
WF984	F06	WF98426D	2.24	4/2/98	CHAETOCEROS COMPRESSUS	5469.74
WF984	F06	WF98426D	2.24	4/2/98	CHAETOCEROS SP. GROUP 2 DIAM 10-30 MICRONS	9046.01
WF984	F06	WF98426D	2.24	4/2/98	CHOANOFAGELLATE SPP.	217.50
WF984	F06	WF98426D	2.24	4/2/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	2622.55
WF984	F06	WF98426D	2.24	4/2/98	CYLINDROTHECA CLOSTERIUM	815.75
WF984	F06	WF98426D	2.24	4/2/98	DICTYOCHA SPECULUM	NA
WF984	F06	WF98426D	2.24	4/2/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	18888.62
WF984	F06	WF98426D	2.24	4/2/98	GYMNODINIUM SP. GROUP 2 21-40UM W 21-50UM L	3170.73
WF984	F06	WF98426D	2.24	4/2/98	NAVICULOID DIATOMS	NA
WF984	F06	WF98426D	2.24	4/2/98	PENNATE DIATOM SP. GROUP 2 10-30 MICRONS LENGTH	349.77
WF984	F06	WF98426D	2.24	4/2/98	PSEUDONITZSCHIA PUNGENS	964.76
WF984	F06	WF98426D	2.24	4/2/98	RHIZOLENIA SETIGERA	2237.91

Survey	Sta.	Sample Number	Depth (m)	Sampling Date	Plankton	Estimated Carbon Equivalence (ng Carbon/L)
WF984	F06	WF98426D	2.24	4/2/98	SKELETONEMA COSTATUM GREV+CLEVE	1315.67
WF984	F06	WF98426D	2.24	4/2/98	THALASSIONEMA NITZSCHIOIDES	534.10
WF984	F06	WF98426D	2.24	4/2/98	THALASSIOSIRA NORDENSKIOLDII CLEVE	65.48
WF984	F06	WF98426D	2.24	4/2/98	THALASSIOSIRA ROTULA	39210.76
WF984	F06	WF98426D	2.24	4/2/98	THALASSIOSIRA SP. GROUP 3 10-20 MICRONS LENGTH	1102.78
WF984	F06	WF98426D	2.24	4/2/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	39511.89
WF984	F06	WF98426D	2.24	4/2/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	1344.02
WF984	F06	WF98426D	2.24	4/2/98	ATHECATE DINOFLAGELLATE	NA
WF984	F06	WF98426D	2.24	4/2/98	CERATIUM FUSUS	77.66
WF984	F06	WF98426D	2.24	4/2/98	CERATIUM LINEATUM	47.81
WF984	F06	WF98426D	2.24	4/2/98	CERATIUM LONGIPES	7855.08
WF984	F06	WF98426D	2.24	4/2/98	CERATIUM TRIPOS	1838.47
WF984	F06	WF98426D	2.24	4/2/98	DINOPHYSIS ACUMINATA	3.78
WF984	F06	WF98426D	2.24	4/2/98	DISTEPHANUS SPECULUM	12.91
WF984	F06	WF98426D	2.24	4/2/98	GYRODINIUM SP. GROUP 3 41-70UM W 51-70UM L	21.45
WF984	F06	WF98426D	2.24	4/2/98	MESODINIUM RUBRUM	NA
WF984	F06	WF98426D	2.24	4/2/98	PROTOPERIDIUM DEPRESSUM	120.63
WF984	F06	WF98426D	2.24	4/2/98	PROTOPERIDIUM SPP.	51.31
WN985	N04	WN98500D	20.98	4/30/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	1306.60
WN985	N04	WN98500D	20.98	4/30/98	CHAETOCEROS COMPRESSUS	32203.87
WN985	N04	WN98500D	20.98	4/30/98	CHAETOCEROS DEBILIS	14246.75
WN985	N04	WN98500D	20.98	4/30/98	CHAETOCEROS SEPTENTRIONALIS	NA
WN985	N04	WN98500D	20.98	4/30/98	CHAETOCEROS SOCIALIS	101282.85
WN985	N04	WN98500D	20.98	4/30/98	CHAETOCEROS SP. GROUP 2 DIAM 10-30 MICRONS	62136.27
WN985	N04	WN98500D	20.98	4/30/98	CHAETOCEROS SPP.(<10UM)	16932.70
WN985	N04	WN98500D	20.98	4/30/98	CHOANOFLLAGELLATE SPP.	1282.39
WN985	N04	WN98500D	20.98	4/30/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	3458.81
WN985	N04	WN98500D	20.98	4/30/98	CYLINDROTHECA CLOSTERIUM	3201.88
WN985	N04	WN98500D	20.98	4/30/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	20249.06
WN985	N04	WN98500D	20.98	4/30/98	GYRODINIUM SPIRALE	45638.58
WN985	N04	WN98500D	20.98	4/30/98	HETEROCAPSA TRIQUETRA	1978.07
WN985	N04	WN98500D	20.98	4/30/98	PROROCENTRUM MINIMUM	14524.53
WN985	N04	WN98500D	20.98	4/30/98	PROTOPERIDIUM DEPRESSUM	505066.30
WN985	N04	WN98500D	20.98	4/30/98	PSEUDONITZSCHIA DELICATISSIMA	8328.87
WN985	N04	WN98500D	20.98	4/30/98	PSEUDONITZSCHIA PUNGENS	2103.47
WN985	N04	WN98500D	20.98	4/30/98	RHIZOLENIA FRAGILISSIMA	1738.01
WN985	N04	WN98500D	20.98	4/30/98	SKELETONEMA COSTATUM GREV+CLEVE	9906.47
WN985	N04	WN98500D	20.98	4/30/98	THALASSIONEMA NITZSCHIOIDES	1091.72
WN985	N04	WN98500D	20.98	4/30/98	THALASSIOSIRA ROTULA	19238.24
WN985	N04	WN98500D	20.98	4/30/98	THALASSIOSIRA SP. GROUP 1 DIAM <20 MICRONS	832.29
WN985	N04	WN98500D	20.98	4/30/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	357303.77
WN985	N04	WN98500D	20.98	4/30/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	11886.79
WN985	N04	WN98500D	20.98	4/30/98	ALEXANDRIUM TAMARENSE	0.51
WN985	N04	WN98500D	20.98	4/30/98	ATHECATE DINOFLAGELLATE	NA
WN985	N04	WN98500D	20.98	4/30/98	CERATIUM FURCA	NA
WN985	N04	WN98500D	20.98	4/30/98	CERATIUM FUSUS	14.79
WN985	N04	WN98500D	20.98	4/30/98	CERATIUM LONGIPES	2237.28
WN985	N04	WN98500D	20.98	4/30/98	CERATIUM SPP.	77.96
WN985	N04	WN98500D	20.98	4/30/98	CERATIUM TRIPOS	132.67
WN985	N04	WN98500D	20.98	4/30/98	DINOPHYSIS ACUMINATA	1.89
WN985	N04	WN98500D	20.98	4/30/98	DINOPHYSIS NORVEGICA	NA

Appendix K

Survey	Sta.	Sample Number	Depth (m)	Sampling Date	Plankton	Estimated Carbon Equivalence (ng Carbon/L)
WN985	N04	WN98500D	20.98	4/30/98	DISTEPHANUS SPECULUM	3.00
WN985	N04	WN98500D	20.98	4/30/98	GYMNODINIUM SPP. (30UM)	NA
WN985	N04	WN98500D	20.98	4/30/98	GYRODINIUM SP. GROUP 2 21-40UM W 21-50UM L	17.34
WN985	N04	WN98500D	20.98	4/30/98	MESODINIUM RUBRUM	NA
WN985	N04	WN98500D	20.98	4/30/98	PROTOPERIDINIUM BREVIPIES	7.10
WN985	N04	WN98500D	20.98	4/30/98	PROTOPERIDINIUM DEPRESSUM	1688.85
WN985	N04	WN98500D	20.98	4/30/98	PROTOPERIDINIUM GRANII	73.76
WN985	N04	WN98500D	20.98	4/30/98	PROTOPERIDINIUM PALLIDUM	80.10
WN985	N04	WN98500D	20.98	4/30/98	PROTOPERIDINIUM SPP.	205.22
WN985	N04	WN98500D	20.98	4/30/98	THECATE DINOFLAGELLATE SPP.	NA
WN985	N04	WN98500F	1.60	4/30/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	985.82
WN985	N04	WN98500F	1.60	4/30/98	CERATIUM LINEATUM	20624.05
WN985	N04	WN98500F	1.60	4/30/98	CERATIUM LONGIPES	105904.79
WN985	N04	WN98500F	1.60	4/30/98	CERATIUM TRIPOS	40821.80
WN985	N04	WN98500F	1.60	4/30/98	CHAETOCEROS COMPRESSUS	46938.17
WN985	N04	WN98500F	1.60	4/30/98	CHAETOCEROS DECIPIENS	16064.88
WN985	N04	WN98500F	1.60	4/30/98	CHAETOCEROS SEPTENTRIONALIS	NA
WN985	N04	WN98500F	1.60	4/30/98	CHAETOCEROS SOCIALIS	32906.67
WN985	N04	WN98500F	1.60	4/30/98	CHAETOCEROS SP. GROUP 2 DIAM 10-30 MICRONS	87800.05
WN985	N04	WN98500F	1.60	4/30/98	CHOANOFLAGELLATE SPP.	219.90
WN985	N04	WN98500F	1.60	4/30/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	5302.98
WN985	N04	WN98500F	1.60	4/30/98	CRYPTOMONAS SP. GROUP 2 LENGTH >10 MICRONS	448.10
WN985	N04	WN98500F	1.60	4/30/98	DINOPHYSIS NORVEGICA	NA
WN985	N04	WN98500F	1.60	4/30/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	13888.78
WN985	N04	WN98500F	1.60	4/30/98	HETEROCAPSA ROTUNDATA	113.72
WN985	N04	WN98500F	1.60	4/30/98	LEPTOCYLINDRUS MINIMUS	281.07
WN985	N04	WN98500F	1.60	4/30/98	PROROCENTRUM MINIMUM	829.00
WN985	N04	WN98500F	1.60	4/30/98	PROTOPERIDINIUM DEPRESSUM	259817.76
WN985	N04	WN98500F	1.60	4/30/98	PSEUDONITZSCHIA DELICATISSIMA	1465.77
WN985	N04	WN98500F	1.60	4/30/98	PYRAMIMONAS SP. GROUP 1 10-20 MICRONS LENGTH	NA
WN985	N04	WN98500F	1.60	4/30/98	RHIZOLENIA FRAGILISSIMA	3576.28
WN985	N04	WN98500F	1.60	4/30/98	SKELETONEMA COSTATUM GREV+CLEVE	19251.99
WN985	N04	WN98500F	1.60	4/30/98	THALASSIONEMA NITZSCHIOIDES	224.64
WN985	N04	WN98500F	1.60	4/30/98	THALASSIOSIRA SP. GROUP 1 DIAM <20 MICRONS	570.87
WN985	N04	WN98500F	1.60	4/30/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	86628.63
WN985	N04	WN98500F	1.60	4/30/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	12229.68
WN985	N04	WN98500F	1.60	4/30/98	ATHECATE DINOFLAGELLATE	NA
WN985	N04	WN98500F	1.60	4/30/98	CERATIUM FURCA	NA
WN985	N04	WN98500F	1.60	4/30/98	CERATIUM FUSUS	159.77
WN985	N04	WN98500F	1.60	4/30/98	CERATIUM LONGIPES	12479.61
WN985	N04	WN98500F	1.60	4/30/98	CERATIUM SPP.	1044.60
WN985	N04	WN98500F	1.60	4/30/98	CERATIUM TRIPOS	2683.79
WN985	N04	WN98500F	1.60	4/30/98	DINOPHYSIS ACUMINATA	6.80
WN985	N04	WN98500F	1.60	4/30/98	DINOPHYSIS NORVEGICA	NA
WN985	N04	WN98500F	1.60	4/30/98	DISTEPHANUS SPECULUM	12.25
WN985	N04	WN98500F	1.60	4/30/98	GYRODINIUM SP. GROUP 2 21-40UM W 21-50UM L	17.83
WN985	N04	WN98500F	1.60	4/30/98	PROTOPERIDINIUM BREVIPIES	2.13
WN985	N04	WN98500F	1.60	4/30/98	PROTOPERIDINIUM DEPRESSUM	868.55
WN985	N04	WN98500F	1.60	4/30/98	PROTOPERIDINIUM GRANII	19.67
WN985	N04	WN98500F	1.60	4/30/98	PROTOPERIDINIUM PALLIDUM	240.29
WN985	N04	WN98500F	1.60	4/30/98	PROTOPERIDINIUM SPP.	94.72
WN985	N18	WN985032	9.07	4/30/98	CALYCOMONAS WULFFII	78.93

Survey	Sta.	Sample Number	Depth (m)	Sampling Date	Plankton	Estimated Carbon Equivalence (ng Carbon/L)
WN985	N18	WN985032	9.07	4/30/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	696.86
WN985	N18	WN985032	9.07	4/30/98	CERATIUM FUSUS	18580.87
WN985	N18	WN985032	9.07	4/30/98	CERATIUM LONGIPES	308806.49
WN985	N18	WN985032	9.07	4/30/98	CERATIUM TRIPOS	23806.36
WN985	N18	WN985032	9.07	4/30/98	CHAETOCEROS COMPRESSUS	20932.51
WN985	N18	WN985032	9.07	4/30/98	CHAETOCEROS DEBILIS	13169.81
WN985	N18	WN985032	9.07	4/30/98	CHAETOCEROS DECIPIENS	7016.39
WN985	N18	WN985032	9.07	4/30/98	CHAETOCEROS SEPTENTRIONALIS	NA
WN985	N18	WN985032	9.07	4/30/98	CHAETOCEROS SOCIALIS	46976.58
WN985	N18	WN985032	9.07	4/30/98	CHAETOCEROS SP. GROUP 2 DIAM 10-30 MICRONS	39113.42
WN985	N18	WN985032	9.07	4/30/98	CHOANOFLLAGELLATE SPP.	427.46
WN985	N18	WN985032	9.07	4/30/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	5289.94
WN985	N18	WN985032	9.07	4/30/98	CRYPTOMONAS SP. GROUP 2 LENGTH >10 MICRONS	871.07
WN985	N18	WN985032	9.07	4/30/98	DINOPHYSIS OVUM	8006.19
WN985	N18	WN985032	9.07	4/30/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	14624.32
WN985	N18	WN985032	9.07	4/30/98	GYRODINIUM SPIRALE	54766.29
WN985	N18	WN985032	9.07	4/30/98	HETEROCAPSA ROTUNDATA	442.77
WN985	N18	WN985032	9.07	4/30/98	HETEROCAPSA TRIQUETRA	3560.53
WN985	N18	WN985032	9.07	4/30/98	PENNATE DIATOM SP. GROUP 3 31-60 MICRONS LENGTH	294.42
WN985	N18	WN985032	9.07	4/30/98	PROTOPERIDINIUM BIPES	1637.54
WN985	N18	WN985032	9.07	4/30/98	PSEUDONITZSCHIA DELICATISSIMA	438.99
WN985	N18	WN985032	9.07	4/30/98	PYRAMIMONAS SP. GROUP 1 10-20 MICRONS LENGTH	NA
WN985	N18	WN985032	9.07	4/30/98	RHIZOLENIA FRAGILISSIMA	8354.47
WN985	N18	WN985032	9.07	4/30/98	SCENESDESMUS QUADRIKAUDA	36.99
WN985	N18	WN985032	9.07	4/30/98	SKELETONEMA COSTATUM GREV+CLEVE	6484.23
WN985	N18	WN985032	9.07	4/30/98	THALASSIONEMA NITZSCHIOIDES	393.02
WN985	N18	WN985032	9.07	4/30/98	THALASSIOSIRA SP. GROUP 1 DIAM <20 MICRONS	166.46
WN985	N18	WN985032	9.07	4/30/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	68712.26
WN985	N18	WN985032	9.07	4/30/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	2641.51
WN985	N18	WN985032	9.07	4/30/98	ATHECATE DINOFLAGELLATE	NA
WN985	N18	WN985032	9.07	4/30/98	CERATIUM FURCA	NA
WN985	N18	WN985032	9.07	4/30/98	CERATIUM FUSUS	25.89
WN985	N18	WN985032	9.07	4/30/98	CERATIUM LONGIPES	7941.12
WN985	N18	WN985032	9.07	4/30/98	CERATIUM SPP.	597.66
WN985	N18	WN985032	9.07	4/30/98	DINOPHYSIS ACUMINATA	62.36
WN985	N18	WN985032	9.07	4/30/98	DINOPHYSIS NORVEGICA	NA
WN985	N18	WN985032	9.07	4/30/98	DISTEPHANUS SPECULUM	11.41
WN985	N18	WN985032	9.07	4/30/98	GYMNODINIUM SP. GROUP 2 21-40UM W 21-50UM L	2.48
WN985	N18	WN985032	9.07	4/30/98	MESODINIUM RUBRUM	NA
WN985	N18	WN985032	9.07	4/30/98	PROTOPERIDINIUM BREVIPIES	39.07
WN985	N18	WN985032	9.07	4/30/98	PROTOPERIDINIUM DEPRESSUM	723.79
WN985	N18	WN985032	9.07	4/30/98	PROTOPERIDINIUM PYRIFORME	NA
WN985	N18	WN985032	9.07	4/30/98	PROTOPERIDINIUM SPP.	599.88
WN985	N18	WN985032	9.07	4/30/98	THECATE DINOFLAGELLATE SPP.	NA
WN985	N18	WN985034	1.90	4/30/98	AMPHIDIUM SPP.	3345.94
WN985	N18	WN985034	1.90	4/30/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	1356.86
WN985	N18	WN985034	1.90	4/30/98	CERATIUM LINEATUM	6236.05
WN985	N18	WN985034	1.90	4/30/98	CERATIUM LONGIPES	96205.10
WN985	N18	WN985034	1.90	4/30/98	CHAETOCEROS COMPRESSUS	30098.23
WN985	N18	WN985034	1.90	4/30/98	CHAETOCEROS DECIPIENS	7286.25
WN985	N18	WN985034	1.90	4/30/98	CHAETOCEROS SEPTENTRIONALIS	NA

Survey	Sta.	Sample Number	Depth (m)	Sampling Date	Plankton	Estimated Carbon Equivalence (ng Carbon/L)
WN985	N18	WN985034	1.90	4/30/98	CHAETOCEROS SOCIALIS	53142.74
WN985	N18	WN985034	1.90	4/30/98	CHAETOCEROS SP. GROUP 2 DIAM 10-30 MICRONS	38715.68
WN985	N18	WN985034	1.90	4/30/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	10352.94
WN985	N18	WN985034	1.90	4/30/98	CRYPTOMONAS SP. GROUP 2 LENGTH >10 MICRONS	6105.86
WN985	N18	WN985034	1.90	4/30/98	DINOPHYSIS OVUM	8314.12
WN985	N18	WN985034	1.90	4/30/98	EUTREPTIA/EUTREPTIELLA SPP.	NA
WN985	N18	WN985034	1.90	4/30/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	21027.87
WN985	N18	WN985034	1.90	4/30/98	GYMNODINIUM SP. GROUP 2 21-40UM W 21-50UM L	64704.32
WN985	N18	WN985034	1.90	4/30/98	GYRODINIUM SPIRALE	113745.38
WN985	N18	WN985034	1.90	4/30/98	HETEROCAPSA ROTUNDATA	1034.54
WN985	N18	WN985034	1.90	4/30/98	HETEROCAPSA TRIQUETRA	6162.45
WN985	N18	WN985034	1.90	4/30/98	PROTOPERIDIUM BIPES	8514.89
WN985	N18	WN985034	1.90	4/30/98	PROTOPERIDIUM SP. GROUP 1 10-30W 10-40L	12798.39
WN985	N18	WN985034	1.90	4/30/98	PSEUDONITZSCHIA DELICATISSIMA	819.40
WN985	N18	WN985034	1.90	4/30/98	RHIZOLENIA FRAGILISSIMA	27111.85
WN985	N18	WN985034	1.90	4/30/98	RHIZOLENIA SETIGERA	4560.27
WN985	N18	WN985034	1.90	4/30/98	SKELETONEMA COSTATUM GREV+CLEVE	7170.06
WN985	N18	WN985034	1.90	4/30/98	THALASSIOSIRA ROTULA	12004.19
WN985	N18	WN985034	1.90	4/30/98	THALASSIOSIRA SP. GROUP 1 DIAM <20 MICRONS	864.30
WN985	N18	WN985034	1.90	4/30/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	106692.78
WN985	N18	WN985034	1.90	4/30/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	6171.99
WN985	N18	WN985034	1.90	4/30/98	ALEXANDRIUM TAMARENSE	0.47
WN985	N18	WN985034	1.90	4/30/98	ATHECATE DINOFLAGELLATE	NA
WN985	N18	WN985034	1.90	4/30/98	CERATIUM FURCA	NA
WN985	N18	WN985034	1.90	4/30/98	CERATIUM FUSUS	61.24
WN985	N18	WN985034	1.90	4/30/98	CERATIUM LONGIPES	9296.28
WN985	N18	WN985034	1.90	4/30/98	CERATIUM SPP.	896.49
WN985	N18	WN985034	1.90	4/30/98	CERATIUM TRIPOS	2423.75
WN985	N18	WN985034	1.90	4/30/98	DINOPHYSIS ACUMINATA	19.12
WN985	N18	WN985034	1.90	4/30/98	DINOPHYSIS NORVEGICA	NA
WN985	N18	WN985034	1.90	4/30/98	DISTEPHANUS SPECULUM	9.39
WN985	N18	WN985034	1.90	4/30/98	PROTOPERIDIUM BREVIPES	9.80
WN985	N18	WN985034	1.90	4/30/98	PROTOPERIDIUM DEPRESSUM	887.85
WN985	N18	WN985034	1.90	4/30/98	PROTOPERIDIUM PALLIDUM	55.27
WN985	N18	WN985034	1.90	4/30/98	PROTOPERIDIUM PYRIFORME	NA
WN985	N18	WN985034	1.90	4/30/98	PROTOPERIDIUM SPP.	450.23
WN986	N04	WN98600A	14.70	5/18/98	AMPHIDIUM CRASSUM	242.08
WN986	N04	WN98600A	14.70	5/18/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	7186.32
WN986	N04	WN98600A	14.70	5/18/98	CHAETOCEROS COMPRESSUS	2817.43
WN986	N04	WN98600A	14.70	5/18/98	CHAETOCEROS DEBILIS	1314.90
WN986	N04	WN98600A	14.70	5/18/98	CHAETOCEROS SOCIALIS	2098.65
WN986	N04	WN98600A	14.70	5/18/98	CHAETOCEROS SPP. (10-20UM)	NA
WN986	N04	WN98600A	14.70	5/18/98	CHAETOCEROS SPP. (<10UM)	325.63
WN986	N04	WN98600A	14.70	5/18/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	1831.13
WN986	N04	WN98600A	14.70	5/18/98	CRYPTOMONAS SP. GROUP 2 LENGTH >10 MICRONS	979.95
WN986	N04	WN98600A	14.70	5/18/98	CYLINDROTHECA CLOSTERIUM	960.43
WN986	N04	WN98600A	14.70	5/18/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	18561.64
WN986	N04	WN98600A	14.70	5/18/98	GYMNODINIUM SP. GROUP 2 21-40UM W 21-50UM L	6220.92
WN986	N04	WN98600A	14.70	5/18/98	GYRODINIUM SPIRALE	68556.60
WN986	N04	WN98600A	14.70	5/18/98	NAVICULA SP. GROUP 1 LENGTH <20 MICRONS	26.50
WN986	N04	WN98600A	14.70	5/18/98	PROROCENTRUM MINIMUM	1210.38
WN986	N04	WN98600A	14.70	5/18/98	PSEUDONITZSCHIA DELICATISSIMA	493.87

Survey	Sta.	Sample Number	Depth (m)	Sampling Date	Plankton	Estimated Carbon Equivalence (ng Carbon/L)
WN986	N04	WN98600A	14.70	5/18/98	PYRAMIMONAS SP. GROUP 1 10-20 MICRONS LENGTH	NA
WN986	N04	WN98600A	14.70	5/18/98	SKELETONEMA COSTATUM GREV+CLEVE	1500.76
WN986	N04	WN98600A	14.70	5/18/98	THALASSIONEMA NITZSCHIOIDES	983.96
WN986	N04	WN98600A	14.70	5/18/98	THALASSIOSIRA ROTULA	46238.36
WN986	N04	WN98600A	14.70	5/18/98	THALASSIOSIRA SP. GROUP 1 DIAM <20 MICRONS	2917.22
WN986	N04	WN98600A	14.70	5/18/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	83763.52
WN986	N04	WN98600A	14.70	5/18/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	7924.53
WN986	N04	WN98600A	14.70	5/18/98	ATHECATE DINOFLAGELLATE	NA
WN986	N04	WN98600A	14.70	5/18/98	CERATIUM FUSUS	7.40
WN986	N04	WN98600A	14.70	5/18/98	CERATIUM LINEATUM	28.69
WN986	N04	WN98600A	14.70	5/18/98	CERATIUM LONGIPES	663.81
WN986	N04	WN98600A	14.70	5/18/98	CERATIUM SPP.	51.97
WN986	N04	WN98600A	14.70	5/18/98	CERATIUM TRIPOS	208.49
WN986	N04	WN98600A	14.70	5/18/98	DINOPHYSIS ACUMINATA	0.47
WN986	N04	WN98600A	14.70	5/18/98	DINOPHYSIS NORVEGICA	NA
WN986	N04	WN98600A	14.70	5/18/98	DISTEPHANUS SPECULUM	4.80
WN986	N04	WN98600A	14.70	5/18/98	PROTOPERIDINIUM DEPRESSUM	241.26
WN986	N04	WN98600A	14.70	5/18/98	PROTOPERIDINIUM SPP.	71.04
WN986	N04	WN98600A	14.70	5/18/98	THECATE DINOFLAGELLATE SPP.	NA
WN986	N04	WN98600C	1.97	5/18/98	APEDINELLA RADIANS	548.88
WN986	N04	WN98600C	1.97	5/18/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	12385.10
WN986	N04	WN98600C	1.97	5/18/98	CERATIUM LINEATUM	12239.36
WN986	N04	WN98600C	1.97	5/18/98	CERATIUM LONGIPES	62939.95
WN986	N04	WN98600C	1.97	5/18/98	CHAETOCEROS SPP. (10-20UM)	NA
WN986	N04	WN98600C	1.97	5/18/98	CHOANOFLAGELLATE SPP.	130.50
WN986	N04	WN98600C	1.97	5/18/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	2384.78
WN986	N04	WN98600C	1.97	5/18/98	CRYPTOMONAS SP. GROUP 2 LENGTH >10 MICRONS	665.87
WN986	N04	WN98600C	1.97	5/18/98	CYLINDROTHECA CLOSTERIUM	978.90
WN986	N04	WN98600C	1.97	5/18/98	DICTYOCHA SPECULUM	NA
WN986	N04	WN98600C	1.97	5/18/98	DINOPHYSIS NORVEGICA	NA
WN986	N04	WN98600C	1.97	5/18/98	EBRIA TRIPARTITA	3119.92
WN986	N04	WN98600C	1.97	5/18/98	EUTREPTIA/EUTREPTIELLA SPP.	NA
WN986	N04	WN98600C	1.97	5/18/98	GYRODINIUM SP. GROUP 2 21-40UM W 21-50UM L	12681.10
WN986	N04	WN98600C	1.97	5/18/98	GYRODINIUM SPIRALE	139750.00
WN986	N04	WN98600C	1.97	5/18/98	HETEROCAPSA TRIQUETRA	1209.49
WN986	N04	WN98600C	1.97	5/18/98	HETEROSIGMA AKASHIWO	NA
WN986	N04	WN98600C	1.97	5/18/98	PROTOPERIDINIUM SP. GROUP 1 10-30W 10-40L	5016.59
WN986	N04	WN98600C	1.97	5/18/98	PROTOPERIDINIUM SP. GROUP 2 31-75W 41-80L	35397.05
WN986	N04	WN98600C	1.97	5/18/98	SKELETONEMA COSTATUM GREV+CLEVE	11196.85
WN986	N04	WN98600C	1.97	5/18/98	THALASSIONEMA NITZSCHIOIDES	2670.12
WN986	N04	WN98600C	1.97	5/18/98	THALASSIOSIRA ROTULA	23526.46
WN986	N04	WN98600C	1.97	5/18/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	76703.53
WN986	N04	WN98600C	1.97	5/18/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	12115.38
WN986	N04	WN98600C	1.97	5/18/98	ATHECATE DINOFLAGELLATE	NA
WN986	N04	WN98600C	1.97	5/18/98	CERATIUM FUSUS	118.34
WN986	N04	WN98600C	1.97	5/18/98	CERATIUM LINEATUM	879.69
WN986	N04	WN98600C	1.97	5/18/98	CERATIUM LONGIPES	10522.60
WN986	N04	WN98600C	1.97	5/18/98	CERATIUM SPP.	714.59
WN986	N04	WN98600C	1.97	5/18/98	CERATIUM TRIPOS	1459.41
WN986	N04	WN98600C	1.97	5/18/98	DINOPHYSIS NORVEGICA	NA
WN986	N04	WN98600C	1.97	5/18/98	DINOPHYSIS SPP.	6.13

Survey	Sta.	Sample Number	Depth (m)	Sampling Date	Plankton	Estimated Carbon Equivalence (ng Carbon/L)
WN986	N04	WN98600C	1.97	5/18/98	DISTEPHANUS SPECULUM	9.01
WN986	N04	WN98600C	1.97	5/18/98	GYMNODINIUM SPP. (30UM)	NA
WN986	N04	WN98600C	1.97	5/18/98	PROTOPIRIDINIUM DEPRESSUM	663.48
WN986	N04	WN98600C	1.97	5/18/98	PROTOPIRIDINIUM SPP.	39.47
WN986	N04	WN98600C	1.97	5/18/98	THECATE DINOFLAGELLATE SPP.	NA
WN986	N18	WN98603C	11.10	5/18/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	21166.98
WN986	N18	WN98603C	11.10	5/18/98	CERATIUM LONGIPES	77190.51
WN986	N18	WN98603C	11.10	5/18/98	CHAETOCEROS COMPRESSUS	32250.31
WN986	N18	WN98603C	11.10	5/18/98	CHAETOCEROS SOCIALIS	9993.58
WN986	N18	WN98603C	11.10	5/18/98	CHAETOCEROS SPP. (10-20UM)	NA
WN986	N18	WN98603C	11.10	5/18/98	CHAETOCEROS SPP. (<10UM)	3256.29
WN986	N18	WN98603C	11.10	5/18/98	CHOANOFAGELLATE SPP.	641.19
WN986	N18	WN98603C	11.10	5/18/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	2848.43
WN986	N18	WN98603C	11.10	5/18/98	CRYPTOMONAS SP. GROUP 2 LENGTH >10 MICRONS	2613.21
WN986	N18	WN98603C	11.10	5/18/98	CYLINDROTHECA CLOSTERIUM	2401.06
WN986	N18	WN98603C	11.10	5/18/98	DINOPHYSIS NORVEGICA	NA
WN986	N18	WN98603C	11.10	5/18/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	97870.44
WN986	N18	WN98603C	11.10	5/18/98	GYRODINIUM SP. GROUP 2 21-40UM W 21-50UM L	15552.29
WN986	N18	WN98603C	11.10	5/18/98	NAVICULA SP. GROUP 1 LENGTH <20 MICRONS	662.47
WN986	N18	WN98603C	11.10	5/18/98	PROBOSCIA ALATA	21390.36
WN986	N18	WN98603C	11.10	5/18/98	PSEUDONITZSCHIA DELICATISSIMA	164.36
WN986	N18	WN98603C	11.10	5/18/98	PYRAMIMONAS SP. GROUP 1 10-20 MICRONS LENGTH	NA
WN986	N18	WN98603C	11.10	5/18/98	RHIZOLENIA FRAGILISSIMA	5213.27
WN986	N18	WN98603C	11.10	5/18/98	SKELETONEMA COSTATUM GREV+CLEVE	8854.51
WN986	N18	WN98603C	11.10	5/18/98	THALASSIONEMA NITZSCHIOIDES	2619.74
WN986	N18	WN98603C	11.10	5/18/98	THALASSIOSIRA SP. GROUP 1 DIAM <20 MICRONS	36199.41
WN986	N18	WN98603C	11.10	5/18/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	127608.49
WN986	N18	WN98603C	11.10	5/18/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	43584.91
WN986	N18	WN98603C	11.10	5/18/98	CERATIUM FUSUS	650.90
WN986	N18	WN98603C	11.10	5/18/98	CERATIUM LINEATUM	305.98
WN986	N18	WN98603C	11.10	5/18/98	CERATIUM LONGIPES	18832.51
WN986	N18	WN98603C	11.10	5/18/98	CERATIUM SPP.	909.48
WN986	N18	WN98603C	11.10	5/18/98	CERATIUM TRIPOS	1781.61
WN986	N18	WN98603C	11.10	5/18/98	DINOPHYSIS ACUMINATA	1.89
WN986	N18	WN98603C	11.10	5/18/98	DINOPHYSIS NORVEGICA	NA
WN986	N18	WN98603C	11.10	5/18/98	DISTEPHANUS SPECULUM	20.42
WN986	N18	WN98603C	11.10	5/18/98	GYMNODINIUM SPP. (30UM)	NA
WN986	N18	WN98603C	11.10	5/18/98	MESODINIUM RUBRUM	NA
WN986	N18	WN98603C	11.10	5/18/98	PROTOPIRIDINIUM DEPRESSUM	965.06
WN986	N18	WN98603C	11.10	5/18/98	PROTOPIRIDINIUM SPP.	31.57
WN986	N18	WN98603E	1.85	5/18/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	9867.37
WN986	N18	WN98603E	1.85	5/18/98	CERATIUM LINEATUM	11777.50
WN986	N18	WN98603E	1.85	5/18/98	CERATIUM LONGIPES	121129.72
WN986	N18	WN98603E	1.85	5/18/98	CERATIUM TRIPOS	23345.18
WN986	N18	WN98603E	1.85	5/18/98	CHAETOCEROS COMPRESSUS	3947.50
WN986	N18	WN98603E	1.85	5/18/98	CHAETOCEROS SOCIALIS	588.08
WN986	N18	WN98603E	1.85	5/18/98	CHAETOCEROS SPP. (<10UM)	191.32
WN986	N18	WN98603E	1.85	5/18/98	CHOANOFAGELLATE SPP.	314.43
WN986	N18	WN98603E	1.85	5/18/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	2494.33
WN986	N18	WN98603E	1.85	5/18/98	DINOPHYSIS NORVEGICA	NA
WN986	N18	WN98603E	1.85	5/18/98	EBRIA TRIPARTITA	7517.38
WN986	N18	WN98603E	1.85	5/18/98	EUTREPTIA/EUTREPTIELLA SPP.	NA

Survey	Sta.	Sample Number	Depth (m)	Sampling Date	Plankton	Estimated Carbon Equivalence (ng Carbon/L)
WN986	N18	WN98603E	1.85	5/18/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	13239.77
WN986	N18	WN98603E	1.85	5/18/98	GYMNODINIUM SP. GROUP 2 21-40UM W 21-50UM L	30554.82
WN986	N18	WN98603E	1.85	5/18/98	GYRODINIUM SPIRALE	134476.42
WN986	N18	WN98603E	1.85	5/18/98	HETEROCAPSA TRIQUETRA	4655.40
WN986	N18	WN98603E	1.85	5/18/98	HETEROSIGMA AKASHIWO	NA
WN986	N18	WN98603E	1.85	5/18/98	LICMOPHORA SPP.	281.88
WN986	N18	WN98603E	1.85	5/18/98	PROROCENTRUM MINIMUM	2374.20
WN986	N18	WN98603E	1.85	5/18/98	PROTOPERIDINIUM SP. GROUP 1 10-30W 10-40L	2413.64
WN986	N18	WN98603E	1.85	5/18/98	PSEUDONITZSCHIA DELICATISSIMA	904.16
WN986	N18	WN98603E	1.85	5/18/98	PYRAMIMONAS SP. GROUP 1 10-20 MICRONS LENGTH	NA
WN986	N18	WN98603E	1.85	5/18/98	SKELETONEMA COSTATUM GREV+CLEVE	10892.08
WN986	N18	WN98603E	1.85	5/18/98	THALASSIONEMA NITZSCHIOIDES	2569.36
WN986	N18	WN98603E	1.85	5/18/98	THALASSIOSIRA ROTULA	22674.58
WN986	N18	WN98603E	1.85	5/18/98	THALASSIOSIRA SP. GROUP 1 DIAM <20 MICRONS	2774.97
WN986	N18	WN98603E	1.85	5/18/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	90817.23
WN986	N18	WN98603E	1.85	5/18/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	21373.37
WN986	N18	WN98603E	1.85	5/18/98	ATHECATE DINOFLAGELLATE	NA
WN986	N18	WN98603E	1.85	5/18/98	CERATIUM FUSUS	221.90
WN986	N18	WN98603E	1.85	5/18/98	CERATIUM LINEATUM	602.40
WN986	N18	WN98603E	1.85	5/18/98	CERATIUM LONGIPES	10842.22
WN986	N18	WN98603E	1.85	5/18/98	CERATIUM SPP.	467.73
WN986	N18	WN98603E	1.85	5/18/98	CERATIUM TRIPOS	1592.08
WN986	N18	WN98603E	1.85	5/18/98	DINOPHYSIS ACUMINATA	0.47
WN986	N18	WN98603E	1.85	5/18/98	DINOPHYSIS NORVEGICA	NA
WN986	N18	WN98603E	1.85	5/18/98	DISTEPHANUS SPECULUM	13.81
WN986	N18	WN98603E	1.85	5/18/98	MESODINIUM RUBRUM	NA
WN986	N18	WN98603E	1.85	5/18/98	PROROCENTRUM MINIMUM	0.19
WN986	N18	WN98603E	1.85	5/18/98	THECATE DINOFLAGELLATE SPP.	NA
WF987	F01	WF987031	18.21	6/15/98	AMPHIDIUM SPP.	6557.54
WF987	F01	WF987031	18.21	6/15/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	797.77
WF987	F01	WF987031	18.21	6/15/98	CERATAULINA PELAGICA	508497.36
WF987	F01	WF987031	18.21	6/15/98	CERATIUM FUSUS	15781.83
WF987	F01	WF987031	18.21	6/15/98	CERATIUM LINEATUM	10200.94
WF987	F01	WF987031	18.21	6/15/98	CERATIUM TRIPOS	40440.28
WF987	F01	WF987031	18.21	6/15/98	CHAETOCEROS COMPRESSUS	56072.92
WF987	F01	WF987031	18.21	6/15/98	CHAETOCEROS SEPTENTRIONALIS	NA
WF987	F01	WF987031	18.21	6/15/98	CHAETOCEROS SOCIALIS	435950.66
WF987	F01	WF987031	18.21	6/15/98	CHAETOCEROS SP. GROUP 2 DIAM 10-30 MICRONS	57902.81
WF987	F01	WF987031	18.21	6/15/98	CHAETOCEROS SPP.(<10UM)	31811.07
WF987	F01	WF987031	18.21	6/15/98	CHOANOFLAGELLATE SPP.	652.49
WF987	F01	WF987031	18.21	6/15/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	2070.43
WF987	F01	WF987031	18.21	6/15/98	CYLINDROTHECA CLOSTERIUM	19577.91
WF987	F01	WF987031	18.21	6/15/98	EUTREPTIA/EUTREPTIELLA SPP.	NA
WF987	F01	WF987031	18.21	6/15/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	3434.29
WF987	F01	WF987031	18.21	6/15/98	GYRODINIUM SPIRALE	46516.24
WF987	F01	WF987031	18.21	6/15/98	LEPTOCYLINDRUS MINIMUS	6218.59
WF987	F01	WF987031	18.21	6/15/98	PENNATE DIATOM SP. GROUP 2 10-30 MICRONS LENGTH	14690.16
WF987	F01	WF987031	18.21	6/15/98	PROBOSCIA ALATA	450633.54
WF987	F01	WF987031	18.21	6/15/98	PROTOPERIDINIUM SP. GROUP 2 31-75W 41-80L	29501.79
WF987	F01	WF987031	18.21	6/15/98	PSEUDONITZSCHIA DELICATISSIMA	1452.07
WF987	F01	WF987031	18.21	6/15/98	PYRAMIMONAS SP. GROUP 1 10-20 MICRONS LENGTH	NA

Survey	Sta.	Sample Number	Depth (m)	Sampling Date	Plankton	Estimated Carbon Equivalence (ng Carbon/L)
WF987	F01	WF987031	18.21	6/15/98	RHIZOLENIA DELICATULA	7238.84
WF987	F01	WF987031	18.21	6/15/98	RHIZOLENIA FRAGILISSIMA	21254.10
WF987	F01	WF987031	18.21	6/15/98	SKELETONEMA COSTATUM GREV+CLEVE	509.95
WF987	F01	WF987031	18.21	6/15/98	THALASSIONEMA NITZSCHIOIDES	1112.71
WF987	F01	WF987031	18.21	6/15/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	77913.89
WF987	F01	WF987031	18.21	6/15/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	8064.13
WF987	F01	WF987031	18.21	6/15/98	ALEXANDRIUM TAMARENSE	0.25
WF987	F01	WF987031	18.21	6/15/98	ATHECATE DINOFLAGELLATE	NA
WF987	F01	WF987031	18.21	6/15/98	CERATIUM FUSUS	181.22
WF987	F01	WF987031	18.21	6/15/98	CERATIUM LINEATUM	388.88
WF987	F01	WF987031	18.21	6/15/98	CERATIUM LONGIPES	530.06
WF987	F01	WF987031	18.21	6/15/98	CERATIUM TRIPOS	2321.79
WF987	F01	WF987031	18.21	6/15/98	DINOPHYSIS NORVEGICA	NA
WF987	F01	WF987031	18.21	6/15/98	DISTEPHANUS SPECULUM	6.47
WF987	F01	WF987031	18.21	6/15/98	GYMNODINIUM SPP.	2.60
WF987	F01	WF987031	18.21	6/15/98	GYRODINIUM SP. GROUP 1 5-20UM W 10-20UM L	0.53
WF987	F01	WF987031	18.21	6/15/98	HETEROCAPSA TRIQUETRA	0.93
WF987	F01	WF987031	18.21	6/15/98	MESODINIUM RUBRUM	NA
WF987	F01	WF987031	18.21	6/15/98	PROTOPERIDINIUM BREVIPIES	3.48
WF987	F01	WF987031	18.21	6/15/98	PROTOPERIDINIUM DEPRESSUM	354.66
WF987	F01	WF987031	18.21	6/15/98	PROTOPERIDINIUM PALLIDUM	117.74
WF987	F01	WF987031	18.21	6/15/98	PROTOPERIDINIUM SPP.	30.94
WF987	F01	WF987031	18.21	6/15/98	PROTOPERIDINIUM TROCHOIDIUM	1.72
WF987	F01	WF987031	18.21	6/15/98	THECATE DINOFLAGELLATE SPP.	NA
WF987	F01	WF987034	1.60	6/15/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	541.88
WF987	F01	WF987034	1.60	6/15/98	CERATAULINA PELAGICA	524567.79
WF987	F01	WF987034	1.60	6/15/98	CERATIUM TRIPOS	247219.85
WF987	F01	WF987034	1.60	6/15/98	CHAETOCEROS COMPRESSUS	213195.79
WF987	F01	WF987034	1.60	6/15/98	CHAETOCEROS SEPTENTRIONALIS	NA
WF987	F01	WF987034	1.60	6/15/98	CHAETOCEROS SOCIALIS	321716.36
WF987	F01	WF987034	1.60	6/15/98	CHAETOCEROS SP. GROUP 2 DIAM 10-30 MICRONS	364980.96
WF987	F01	WF987034	1.60	6/15/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	1054.75
WF987	F01	WF987034	1.60	6/15/98	CYLINDROTHECA CLOSTERIUM	7481.32
WF987	F01	WF987034	1.60	6/15/98	DICTYOCHA SPECULUM	NA
WF987	F01	WF987034	1.60	6/15/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	10497.28
WF987	F01	WF987034	1.60	6/15/98	GYRODINIUM SP. GROUP 1 5-20UM W 10-20UM L	3499.09
WF987	F01	WF987034	1.60	6/15/98	LEPTOCYLINDRUS DANICUS	1982.30
WF987	F01	WF987034	1.60	6/15/98	LEPTOCYLINDRUS MINIMUS	3120.68
WF987	F01	WF987034	1.60	6/15/98	PENNATE DIATOM SP. GROUP 2 10-30 MICRONS LENGTH	7483.66
WF987	F01	WF987034	1.60	6/15/98	PROBOSCIA ALATA	933082.96
WF987	F01	WF987034	1.60	6/15/98	PROTOPERIDINIUM DEPRESSUM	262245.96
WF987	F01	WF987034	1.60	6/15/98	PROTOPERIDINIUM PELLUCIDUM	196393.60
WF987	F01	WF987034	1.60	6/15/98	PSEUDONITZSCHIA DELICATISSIMA	1593.28
WF987	F01	WF987034	1.60	6/15/98	SKELETONEMA COSTATUM GREV+CLEVE	7170.06
WF987	F01	WF987034	1.60	6/15/98	THALASSIONEMA NITZSCHIOIDES	5441.00
WF987	F01	WF987034	1.60	6/15/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	68528.03
WF987	F01	WF987034	1.60	6/15/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	16432.56
WF987	F01	WF987034	1.60	6/15/98	ATHECATE DINOFLAGELLATE	NA
WF987	F01	WF987034	1.60	6/15/98	CERATIUM FUSUS	213.02
WF987	F01	WF987034	1.60	6/15/98	CERATIUM LINEATUM	472.74

Survey	Sta.	Sample Number	Depth (m)	Sampling Date	Plankton	Estimated Carbon Equivalence (ng Carbon/L)
WF987	F01	WF987034	1.60	6/15/98	CERATIUM LONGIPES	354.03
WF987	F01	WF987034	1.60	6/15/98	CERATIUM SPP.	174.62
WF987	F01	WF987034	1.60	6/15/98	CERATIUM TRIPOS	3457.09
WF987	F01	WF987034	1.60	6/15/98	DINOPHYSIS ACUMINATA	0.91
WF987	F01	WF987034	1.60	6/15/98	DINOPHYSIS NORVEGICA	NA
WF987	F01	WF987034	1.60	6/15/98	DISTEPHANUS SPECULUM	3.46
WF987	F01	WF987034	1.60	6/15/98	GYMNODINIUM SPP. (30UM)	NA
WF987	F01	WF987034	1.60	6/15/98	GYRODINIUM SP. GROUP 1 5-20UM W 10-20UM L	1.03
WF987	F01	WF987034	1.60	6/15/98	PROTOPERIDINIUM BREVIPIES	13.64
WF987	F01	WF987034	1.60	6/15/98	PROTOPERIDINIUM DEPRESSUM	694.84
WF987	F01	WF987034	1.60	6/15/98	PROTOPERIDINIUM PALLIDUM	192.23
WF987	F01	WF987034	1.60	6/15/98	PROTOPERIDINIUM SPP.	45.46
WF987	F01	WF987034	1.60	6/15/98	PROTOPERIDINIUM TROCHOIDIUM	14.35
WF987	F02	WF987042	14.28	6/15/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	2980.36
WF987	F02	WF987042	14.28	6/15/98	CERATIUM LONGIPES	48102.55
WF987	F02	WF987042	14.28	6/15/98	CHAETOCEROS COMPRESSUS	10450.77
WF987	F02	WF987042	14.28	6/15/98	CHAETOCEROS DECIPIENS	3643.13
WF987	F02	WF987042	14.28	6/15/98	CHAETOCEROS SOCIALIS	4982.13
WF987	F02	WF987042	14.28	6/15/98	CHAETOCEROS SP. GROUP 2 DIAM 10-30 MICRONS	24335.57
WF987	F02	WF987042	14.28	6/15/98	CHAETOCEROS SPP.(<10UM)	8778.05
WF987	F02	WF987042	14.28	6/15/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	632.85
WF987	F02	WF987042	14.28	6/15/98	CYLINDROTHECA CLOSTERIUM	2244.40
WF987	F02	WF987042	14.28	6/15/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	6998.19
WF987	F02	WF987042	14.28	6/15/98	LEPTOCYLINDRUS DANICUS	594.69
WF987	F02	WF987042	14.28	6/15/98	LEPTOCYLINDRUS MINIMUS	255.33
WF987	F02	WF987042	14.28	6/15/98	PENNATE DIATOM SP. GROUP 2 10-30 MICRONS LENGTH	160.39
WF987	F02	WF987042	14.28	6/15/98	PENNATE DIATOM SP. GROUP 3 31-60 MICRONS LENGTH	3056.98
WF987	F02	WF987042	14.28	6/15/98	PLEUROSIGMA SPP.	1371.99
WF987	F02	WF987042	14.28	6/15/98	PROBOSCIA ALATA	17773.01
WF987	F02	WF987042	14.28	6/15/98	PROTOPERIDINIUM BIPES	850.26
WF987	F02	WF987042	14.28	6/15/98	PSEUDONITZSCHIA DELICATISSIMA	136.57
WF987	F02	WF987042	14.28	6/15/98	RHIZOLENIA FRAGILISSIMA	541.46
WF987	F02	WF987042	14.28	6/15/98	SKELETONEMA COSTATUM GREV+CLEVE	1371.66
WF987	F02	WF987042	14.28	6/15/98	THALASSIONEMA NITZSCHIOIDES	8161.51
WF987	F02	WF987042	14.28	6/15/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	63100.07
WF987	F02	WF987042	14.28	6/15/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	4108.14
WF987	F02	WF987042	14.28	6/15/98	CERATIUM FUSUS	74.56
WF987	F02	WF987042	14.28	6/15/98	CERATIUM LINEATUM	36.14
WF987	F02	WF987042	14.28	6/15/98	CERATIUM LONGIPES	1424.98
WF987	F02	WF987042	14.28	6/15/98	CERATIUM SPP.	49.11
WF987	F02	WF987042	14.28	6/15/98	CERATIUM TRIPOS	286.57
WF987	F02	WF987042	14.28	6/15/98	DINOPHYSIS ACUMINATA	2.38
WF987	F02	WF987042	14.28	6/15/98	DINOPHYSIS NORVEGICA	NA
WF987	F02	WF987042	14.28	6/15/98	DISTEPHANUS SPECULUM	6.05
WF987	F02	WF987042	14.28	6/15/98	MESODINIUM RUBRUM	NA
WF987	F02	WF987042	14.28	6/15/98	PROTOPERIDINIUM SPP.	29.84
WF987	F02	WF987042	14.28	6/15/98	PROTOPERIDINIUM TROCHOIDIUM	4.43
WF987	F02	WF987042	14.28	6/15/98	THECATE DINOFLAGELLATE SPP.	NA
WF987	F02	WF987044	1.14	6/15/98	CERATAULINA PELAGICA	252569.68
WF987	F02	WF987044	1.14	6/15/98	CERATIUM FUSUS	16079.60

Survey	Sta.	Sample Number	Depth (m)	Sampling Date	Plankton	Estimated Carbon Equivalence (ng Carbon/L)
WF987	F02	WF987044	1.14	6/15/98	CHAETOCEROS COMPRESSUS	30655.60
WF987	F02	WF987044	1.14	6/15/98	CHAETOCEROS SEPTENTRIONALIS	NA
WF987	F02	WF987044	1.14	6/15/98	CHAETOCEROS SOCIALIS	16607.11
WF987	F02	WF987044	1.14	6/15/98	CHAETOCEROS SP. GROUP 2 DIAM 10-30 MICRONS	97710.99
WF987	F02	WF987044	1.14	6/15/98	CHAETOCEROS SPP.<10UM)	16205.64
WF987	F02	WF987044	1.14	6/15/98	CHAETOCEROS SUBTILIS	809.03
WF987	F02	WF987044	1.14	6/15/98	CHOANOFLLAGELLATE SPP.	1994.69
WF987	F02	WF987044	1.14	6/15/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	2109.50
WF987	F02	WF987044	1.14	6/15/98	CYLINDROTHECA CLOSTERIUM	2493.77
WF987	F02	WF987044	1.14	6/15/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	27992.74
WF987	F02	WF987044	1.14	6/15/98	GYMNODINIUM SP. GROUP 2 21-40UM W 21-50UM L	75379.65
WF987	F02	WF987044	1.14	6/15/98	LEPTOCYLINDRUS DANICUS	8920.35
WF987	F02	WF987044	1.14	6/15/98	LEPTOCYLINDRUS MINIMUS	8510.95
WF987	F02	WF987044	1.14	6/15/98	PENNATE DIATOM SP. GROUP 2 10-30 MICRONS LENGTH	1069.09
WF987	F02	WF987044	1.14	6/15/98	PENNATE DIATOM SP. GROUP 3 31-60 MICRONS LENGTH	1528.71
WF987	F02	WF987044	1.14	6/15/98	PROBOSCIA ALATA	1332975.66
WF987	F02	WF987044	1.14	6/15/98	PSEUDONITZSCHIA DELICATISSIMA	910.44
WF987	F02	WF987044	1.14	6/15/98	PYRAMIMONAS SP. GROUP 1 10-20 MICRONS LENGTH	NA
WF987	F02	WF987044	1.14	6/15/98	SKELETONEMA COSTATUM GREV+CLEVE	3325.25
WF987	F02	WF987044	1.14	6/15/98	THALASSIONEMA NITZSCHIOIDES	1133.71
WF987	F02	WF987044	1.14	6/15/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	80062.46
WF987	F02	WF987044	1.14	6/15/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	12324.42
WF987	F02	WF987044	1.14	6/15/98	ATHECATE DINOFLAGELLATE	NA
WF987	F02	WF987044	1.14	6/15/98	CERATIUM FUSUS	105.62
WF987	F02	WF987044	1.14	6/15/98	CERATIUM LONGIPES	476.47
WF987	F02	WF987044	1.14	6/15/98	CERATIUM SPP.	26.50
WF987	F02	WF987044	1.14	6/15/98	CERATIUM TRIPOS	425.31
WF987	F02	WF987044	1.14	6/15/98	DINOPHYSIS ACUMINATA	0.48
WF987	F02	WF987044	1.14	6/15/98	DINOPHYSIS NORVEGICA	NA
WF987	F02	WF987044	1.14	6/15/98	DISTEPHANUS SPECULUM	1.84
WF987	F02	WF987044	1.14	6/15/98	GYRODINIUM SP. GROUP 1 5-20UM W 10-20UM L	0.14
WF987	F02	WF987044	1.14	6/15/98	HETEROCAPSA TRIQUETRA	0.96
WF987	F02	WF987044	1.14	6/15/98	MESODINIUM RUBRUM	NA
WF987	F02	WF987044	1.14	6/15/98	PROTOPERIDINIUM DEPRESSUM	123.04
WF987	F02	WF987044	1.14	6/15/98	PROTOPERIDINIUM PALLIDUM	428.91
WF987	F02	WF987044	1.14	6/15/98	PROTOPERIDINIUM SPP.	16.10
WF987	F02	WF987044	1.14	6/15/98	PROTOPERIDINIUM TROCHOIDIUM	73.52
WF987	F02	WF987044	1.14	6/15/98	THECATE DINOFLAGELLATE SPP.	NA
WF987	F06	WF98708A	8.05	6/15/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	2127.39
WF987	F06	WF98708A	8.05	6/15/98	CERATAULINA PELAGICA	190686.51
WF987	F06	WF98708A	8.05	6/15/98	CERATIUM LONGIPES	157372.54
WF987	F06	WF98708A	8.05	6/15/98	CHAETOCEROS COMPRESSUS	422598.34
WF987	F06	WF98708A	8.05	6/15/98	CHAETOCEROS SOCIALIS	749672.15
WF987	F06	WF98708A	8.05	6/15/98	CHAETOCEROS SPP.<10UM)	194180.07
WF987	F06	WF98708A	8.05	6/15/98	COSCINODISCUS SP. GROUP 2 DIAM 40-100 MICRONS	41638.34
WF987	F06	WF98708A	8.05	6/15/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	3933.82
WF987	F06	WF98708A	8.05	6/15/98	CYLINDROTHECA CLOSTERIUM	14683.43
WF987	F06	WF98708A	8.05	6/15/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	6868.59
WF987	F06	WF98708A	8.05	6/15/98	GYRODINIUM SPIRALE	139548.73
WF987	F06	WF98708A	8.05	6/15/98	LEPTOCYLINDRUS MINIMUS	2227.56

Survey	Sta.	Sample Number	Depth (m)	Sampling Date	Plankton	Estimated Carbon Equivalence (ng Carbon/L)
WF987	F06	WF98708A	8.05	6/15/98	PENNATE DIATOM SP. GROUP 2 10-30 MICRONS LENGTH	23084.53
WF987	F06	WF98708A	8.05	6/15/98	PROBOSCIA ALATA	174438.79
WF987	F06	WF98708A	8.05	6/15/98	PSEUDONITZSCHIA DELICATISSIMA	670.19
WF987	F06	WF98708A	8.05	6/15/98	PYRAMIMONAS SP. GROUP 1 10-20 MICRONS LENGTH	NA
WF987	F06	WF98708A	8.05	6/15/98	SKELETONEMA COSTATUM GREV+CLEVE	1529.84
WF987	F06	WF98708A	8.05	6/15/98	THALASSIONEMA NITZSCHIOIDES	209.95
WF987	F06	WF98708A	8.05	6/15/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	65927.13
WF987	F06	WF98708A	8.05	6/15/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	12096.19
WF987	F06	WF98708A	8.05	6/15/98	ATHECATE DINOFLAGELLATE	NA
WF987	F06	WF98708A	8.05	6/15/98	CERATIUM FUSUS	27.07
WF987	F06	WF98708A	8.05	6/15/98	CERATIUM LINEATUM	69.99
WF987	F06	WF98708A	8.05	6/15/98	CERATIUM LONGIPES	1319.75
WF987	F06	WF98708A	8.05	6/15/98	CERATIUM SPP.	126.81
WF987	F06	WF98708A	8.05	6/15/98	CERATIUM TRIPOS	346.85
WF987	F06	WF98708A	8.05	6/15/98	DINOPHYSIS NORVEGICA	NA
WF987	F06	WF98708A	8.05	6/15/98	GYMNODINIUM SPP. (30UM)	NA
WF987	F06	WF98708A	8.05	6/15/98	GYRODINIUM SP. GROUP 1 5-20UM W 10-20UM L	1.31
WF987	F06	WF98708A	8.05	6/15/98	PROTOPERIDINIUM BREVIPIES	2.17
WF987	F06	WF98708A	8.05	6/15/98	PROTOPERIDINIUM DEPRESSUM	294.34
WF987	F06	WF98708A	8.05	6/15/98	PROTOPERIDINIUM SPP.	86.67
WF987	F06	WF98708A	8.05	6/15/98	PROTOPERIDINIUM TROCHOIDIUM	2.14
WF987	F06	WF98708B	1.56	6/15/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	1756.10
WF987	F06	WF98708B	1.56	6/15/98	CERATAULINA PELAGICA	215871.52
WF987	F06	WF98708B	1.56	6/15/98	CERATIUM FUSUS	89318.26
WF987	F06	WF98708B	1.56	6/15/98	CERATIUM LINEATUM	28870.58
WF987	F06	WF98708B	1.56	6/15/98	CHAETOCEROS COMPRESSUS	623175.78
WF987	F06	WF98708B	1.56	6/15/98	CHAETOCEROS DECIPIENS	56221.07
WF987	F06	WF98708B	1.56	6/15/98	CHAETOCEROS SOCIALIS	168185.40
WF987	F06	WF98708B	1.56	6/15/98	CHAETOCEROS SP. GROUP 2 DIAM 10-30 MICRONS	122906.91
WF987	F06	WF98708B	1.56	6/15/98	CHAETOCEROS SPP. (<10UM)	146300.91
WF987	F06	WF98708B	1.56	6/15/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	2734.53
WF987	F06	WF98708B	1.56	6/15/98	CRYPTOMONAS SP. GROUP 2 LENGTH >10 MICRONS	1254.36
WF987	F06	WF98708B	1.56	6/15/98	CYLINDROTHECA CLOSTERIUM	9234.86
WF987	F06	WF98708B	1.56	6/15/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	6479.80
WF987	F06	WF98708B	1.56	6/15/98	GYRODINIUM SPIRALE	263261.57
WF987	F06	WF98708B	1.56	6/15/98	HETEROCAPSA ROTUNDATA	637.60
WF987	F06	WF98708B	1.56	6/15/98	HETEROCAPSA TRIQUETRA	11410.30
WF987	F06	WF98708B	1.56	6/15/98	LEPTOCYLINDRUS MINIMUS	7355.14
WF987	F06	WF98708B	1.56	6/15/98	PENNATE DIATOM SP. GROUP 2 10-30 MICRONS LENGTH	19798.05
WF987	F06	WF98708B	1.56	6/15/98	PROBOSCIA ALATA	164541.20
WF987	F06	WF98708B	1.56	6/15/98	PSEUDONITZSCHIA DELICATISSIMA	632.16
WF987	F06	WF98708B	1.56	6/15/98	PYRAMIMONAS SP. GROUP 1 10-20 MICRONS LENGTH	NA
WF987	F06	WF98708B	1.56	6/15/98	RHIZOLENIA FRAGILISSIMA	20051.04
WF987	F06	WF98708B	1.56	6/15/98	SKELETONEMA COSTATUM GREV+CLEVE	7503.82
WF987	F06	WF98708B	1.56	6/15/98	THALASSIONEMA NITZSCHIOIDES	1259.67
WF987	F06	WF98708B	1.56	6/15/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	80414.27
WF987	F06	WF98708B	1.56	6/15/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	7607.67
WF987	F06	WF98708B	1.56	6/15/98	ATHECATE DINOFLAGELLATE	NA
WF987	F06	WF98708B	1.56	6/15/98	CERATIUM FUSUS	190.54

Survey	Sta.	Sample Number	Depth (m)	Sampling Date	Plankton	Estimated Carbon Equivalence (ng Carbon/L)
WF987	F06	WF98708B	1.56	6/15/98	CERATIUM LINEATUM	514.05
WF987	F06	WF98708B	1.56	6/15/98	CERATIUM LONGIPES	743.47
WF987	F06	WF98708B	1.56	6/15/98	CERATIUM SPP.	349.24
WF987	F06	WF98708B	1.56	6/15/98	CERATIUM TRIPOS	3141.71
WF987	F06	WF98708B	1.56	6/15/98	DINOPHYSIS NORVEGICA	NA
WF987	F06	WF98708B	1.56	6/15/98	GYRODINIUM SP. GROUP 1 5-20UM W 10-20UM L	1.20
WF987	F06	WF98708B	1.56	6/15/98	HETEROCAPSA TRIQUETRA	0.53
WF987	F06	WF98708B	1.56	6/15/98	MESODINIUM RUBRUM	NA
WF987	F06	WF98708B	1.56	6/15/98	PROTOPERIDIUM BREVIPES	7.96
WF987	F06	WF98708B	1.56	6/15/98	PROTOPERIDIUM DEPRESSUM	810.65
WF987	F06	WF98708B	1.56	6/15/98	PROTOPERIDIUM DIVERGENS	23.13
WF987	F06	WF98708B	1.56	6/15/98	PROTOPERIDIUM PALLIDUM	44.85
WF987	F06	WF98708B	1.56	6/15/98	PROTOPERIDIUM SPP.	70.72
WF987	F31	WF9870B0	5.47	6/15/98	AMPHIDIUM SPP.	1655.09
WF987	F31	WF9870B0	5.47	6/15/98	ASTERIONELLA FORMOSA	280.59
WF987	F31	WF9870B0	5.47	6/15/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	1879.03
WF987	F31	WF9870B0	5.47	6/15/98	CERATAULINA PELAGICA	105866.99
WF987	F31	WF9870B0	5.47	6/15/98	CERATIUM LINEATUM	7722.88
WF987	F31	WF9870B0	5.47	6/15/98	CHAETOCEROS COMPRESSUS	143920.71
WF987	F31	WF9870B0	5.47	6/15/98	CHAETOCEROS DECIPIENS	192473.23
WF987	F31	WF9870B0	5.47	6/15/98	CHAETOCEROS SOCIALIS	152171.46
WF987	F31	WF9870B0	5.47	6/15/98	CHAETOCEROS SPP.(<10UM)	121754.87
WF987	F31	WF9870B0	5.47	6/15/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	9822.84
WF987	F31	WF9870B0	5.47	6/15/98	CRYPTOMONAS SP. GROUP 2 LENGTH >10 MICRONS	13421.65
WF987	F31	WF9870B0	5.47	6/15/98	CYLINDROTHECA CLOSTERIUM	1853.01
WF987	F31	WF9870B0	5.47	6/15/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	17333.47
WF987	F31	WF9870B0	5.47	6/15/98	GYMNODINIUM SP. GROUP 2 21-40UM W 21-50UM L	8001.61
WF987	F31	WF9870B0	5.47	6/15/98	GYRODINIUM SPIRALE	35216.31
WF987	F31	WF9870B0	5.47	6/15/98	LICMOPHORA SPP.	369.67
WF987	F31	WF9870B0	5.47	6/15/98	PENNATE DIATOM SP. GROUP 2 10-30 MICRONS LENGTH	1059.20
WF987	F31	WF9870B0	5.47	6/15/98	PENNATE DIATOM SP. GROUP 3 31-60 MICRONS LENGTH	1893.19
WF987	F31	WF9870B0	5.47	6/15/98	PSEUDONITZSCHIA DELICATISSIMA	84.56
WF987	F31	WF9870B0	5.47	6/15/98	SCENESDESMUS QUADRICAUDA	47.57
WF987	F31	WF9870B0	5.47	6/15/98	SKELETONEMA COSTATUM GREV+CLEVE	8416.31
WF987	F31	WF9870B0	5.47	6/15/98	THALASSIONEMA NITZSCHIOIDES	336.96
WF987	F31	WF9870B0	5.47	6/15/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	91420.97
WF987	F31	WF9870B0	5.47	6/15/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	8140.21
WF987	F31	WF9870B0	5.47	6/15/98	ALEXANDRIUM TAMARENSE	0.51
WF987	F31	WF9870B0	5.47	6/15/98	ATHECATE DINOFLAGELLATE	NA
WF987	F31	WF9870B0	5.47	6/15/98	CERATIUM FUSUS	125.74
WF987	F31	WF9870B0	5.47	6/15/98	CERATIUM LINEATUM	200.80
WF987	F31	WF9870B0	5.47	6/15/98	CERATIUM LONGIPES	737.57
WF987	F31	WF9870B0	5.47	6/15/98	CERATIUM SPP.	51.97
WF987	F31	WF9870B0	5.47	6/15/98	CERATIUM TRIPOS	265.35
WF987	F31	WF9870B0	5.47	6/15/98	DINOPHYSIS ACUMINATA	1.89
WF987	F31	WF9870B0	5.47	6/15/98	DINOPHYSIS NORVEGICA	NA
WF987	F31	WF9870B0	5.47	6/15/98	DISTEPHANUS SPECULUM	1.80
WF987	F31	WF9870B0	5.47	6/15/98	GYMNODINIUM SPP. (30UM)	NA
WF987	F31	WF9870B0	5.47	6/15/98	GYRODINIUM SP. GROUP 1 5-20UM W 10-20UM L	1.34
WF987	F31	WF9870B0	5.47	6/15/98	MESODINIUM RUBRUM	NA

Survey	Sta.	Sample Number	Depth (m)	Sampling Date	Plankton	Estimated Carbon Equivalence (ng Carbon/L)
WF987	F31	WF9870B0	5.47	6/15/98	PROTOPERIDINIUM BREVIPIES	3.55
WF987	F31	WF9870B0	5.47	6/15/98	PROTOPERIDINIUM DEPRESSUM	120.63
WF987	F31	WF9870B0	5.47	6/15/98	PROTOPERIDINIUM DIVERGENS	41.30
WF987	F31	WF9870B0	5.47	6/15/98	PROTOPERIDINIUM PALLIDUM	20.02
WF987	F31	WF9870B0	5.47	6/15/98	PROTOPERIDINIUM SPP.	67.09
WF987	F31	WF9870B0	5.47	6/15/98	PROTOPERIDINIUM TROCHOIDIUM	15.82
WF987	F31	WF9870B0	5.47	6/15/98	THECATE DINOFLAGELLATE SPP.	NA
WF987	F31	WF9870B2	1.70	6/15/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	2508.72
WF987	F31	WF9870B2	1.70	6/15/98	CERATAULINA PELAGICA	323760.65
WF987	F31	WF9870B2	1.70	6/15/98	CHAETOCEROS COMPRESSUS	170308.91
WF987	F31	WF9870B2	1.70	6/15/98	CHAETOCEROS SOCIALIS	149903.68
WF987	F31	WF9870B2	1.70	6/15/98	CHAETOCEROS SPP.(<10UM)	88780.89
WF987	F31	WF9870B2	1.70	6/15/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	20509.01
WF987	F31	WF9870B2	1.70	6/15/98	CRYPTOMONAS SP. GROUP 2 LENGTH >10 MICRONS	13797.96
WF987	F31	WF9870B2	1.70	6/15/98	EUTREPTIA/EUTREPTIELLA SPP.	NA
WF987	F31	WF9870B2	1.70	6/15/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	3239.90
WF987	F31	WF9870B2	1.70	6/15/98	HETEROCAPSA ROTUNDATA	637.60
WF987	F31	WF9870B2	1.70	6/15/98	HETEROSIGMA AKASHIWO	NA
WF987	F31	WF9870B2	1.70	6/15/98	PENNATE DIATOM SP. GROUP 2 10-30 MICRONS LENGTH	5939.42
WF987	F31	WF9870B2	1.70	6/15/98	PENNATE DIATOM SP. GROUP 3 31-60 MICRONS LENGTH	707.74
WF987	F31	WF9870B2	1.70	6/15/98	RHIZOLENIA FRAGILISSIMA	2506.74
WF987	F31	WF9870B2	1.70	6/15/98	SKELETONEMA COSTATUM GREV+CLEVE	22370.37
WF987	F31	WF9870B2	1.70	6/15/98	THALASSIOSIRA SP. GROUP 2 DIAM >20 MICRONS	11977.01
WF987	F31	WF9870B2	1.70	6/15/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	98633.13
WF987	F31	WF9870B2	1.70	6/15/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	15215.34
WF987	F31	WF9870B2	1.70	6/15/98	ALEXANDRIUM TAMARENSE	0.29
WF987	F31	WF9870B2	1.70	6/15/98	ATHECATE DINOFLAGELLATE	NA
WF987	F31	WF9870B2	1.70	6/15/98	CERATIUM FUSUS	173.97
WF987	F31	WF9870B2	1.70	6/15/98	CERATIUM LINEATUM	637.20
WF987	F31	WF9870B2	1.70	6/15/98	CERATIUM LONGIPES	963.75
WF987	F31	WF9870B2	1.70	6/15/98	CERATIUM SPP.	218.27
WF987	F31	WF9870B2	1.70	6/15/98	CERATIUM TRIPOS	721.74
WF987	F31	WF9870B2	1.70	6/15/98	DINOPHYSIS ACUMINATA	10.58
WF987	F31	WF9870B2	1.70	6/15/98	DINOPHYSIS NORVEGICA	NA
WF987	F31	WF9870B2	1.70	6/15/98	DISTEPHANUS SPECULUM	0.67
WF987	F31	WF9870B2	1.70	6/15/98	GYMNODINIUM SPP. (30UM)	NA
WF987	F31	WF9870B2	1.70	6/15/98	GYRODINIUM SP. GROUP 1 5-20UM W 10-20UM L	0.90
WF987	F31	WF9870B2	1.70	6/15/98	HETEROCAPSA TRIQUETRA	4.23
WF987	F31	WF9870B2	1.70	6/15/98	MESODINIUM RUBRUM	NA
WF987	F31	WF9870B2	1.70	6/15/98	PROROCENTRUM MINIMUM	0.43
WF987	F31	WF9870B2	1.70	6/15/98	PROTOPERIDINIUM DEPRESSUM	1486.19
WF987	F31	WF9870B2	1.70	6/15/98	PROTOPERIDINIUM SPP.	88.40
WF987	F31	WF9870B2	1.70	6/15/98	THECATE DINOFLAGELLATE SPP.	NA
WF987	F13	WF9870D3	12.13	6/16/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	1354.71
WF987	F13	WF9870D3	12.13	6/16/98	CERATAULINA PELAGICA	38856.87
WF987	F13	WF9870D3	12.13	6/16/98	CHAETOCEROS COMPRESSUS	225736.72
WF987	F13	WF9870D3	12.13	6/16/98	CHAETOCEROS DECIPIENS	63754.69
WF987	F13	WF9870D3	12.13	6/16/98	CHAETOCEROS SOCIALIS	147366.85
WF987	F13	WF9870D3	12.13	6/16/98	CHAETOCEROS SP. GROUP 2 DIAM 10-30 MICRONS	23505.95
WF987	F13	WF9870D3	12.13	6/16/98	CHAETOCEROS SPP.(<10UM)	137747.93

Survey	Sta.	Sample Number	Depth (m)	Sampling Date	Plankton	Estimated Carbon Equivalence (ng Carbon/L)
WF987	F13	WF9870D3	12.13	6/16/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	2109.50
WF987	F13	WF9870D3	12.13	6/16/98	CYLINDROTHECA CLOSTERIUM	1870.33
WF987	F13	WF9870D3	12.13	6/16/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	3499.09
WF987	F13	WF9870D3	12.13	6/16/98	LEPTOCYLINDRUS DANICUS	1486.73
WF987	F13	WF9870D3	12.13	6/16/98	PARALIA SULCATA	3249.57
WF987	F13	WF9870D3	12.13	6/16/98	PENNATE DIATOM SP. GROUP 2 10-30 MICRONS LENGTH	9621.85
WF987	F13	WF9870D3	12.13	6/16/98	PENNATE DIATOM SP. GROUP 3 31-60 MICRONS LENGTH	382.18
WF987	F13	WF9870D3	12.13	6/16/98	PROBOSCIA ALATA	55540.65
WF987	F13	WF9870D3	12.13	6/16/98	PSEUDONITZSCHIA DELICATISSIMA	1365.47
WF987	F13	WF9870D3	12.13	6/16/98	RHIZOLENIA FRAGILISSIMA	1353.64
WF987	F13	WF9870D3	12.13	6/16/98	SKELETONEMA COSTATUM GREV+CLEVE	4052.65
WF987	F13	WF9870D3	12.13	6/16/98	STEPHANOPYXIS TURRIS	11788.64
WF987	F13	WF9870D3	12.13	6/16/98	THALASSIONEMA NITZSCHIOIDES	170.06
WF987	F13	WF9870D3	12.13	6/16/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	63778.57
WF987	F13	WF9870D3	12.13	6/16/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	8216.28
WF987	F13	WF9870D3	12.13	6/16/98	ATHECATE DINOFLAGELLATE	NA
WF987	F13	WF9870D3	12.13	6/16/98	CERATIUM FUSUS	14.50
WF987	F13	WF9870D3	12.13	6/16/98	CERATIUM LINEATUM	42.17
WF987	F13	WF9870D3	12.13	6/16/98	CERATIUM LONGIPES	385.50
WF987	F13	WF9870D3	12.13	6/16/98	CERATIUM SPP.	89.13
WF987	F13	WF9870D3	12.13	6/16/98	CERATIUM TRIPOS	315.76
WF987	F13	WF9870D3	12.13	6/16/98	DINOPHYSIS NORVEGICA	NA
WF987	F13	WF9870D3	12.13	6/16/98	HETEROCAPSA TRIQUETRA	0.46
WF987	F13	WF9870D3	12.13	6/16/98	PROTOPERIDIUM DEPRESSUM	354.66
WF987	F13	WF9870D3	12.13	6/16/98	PROTOPERIDIUM SPP.	30.94
WF987	F13	WF9870D5	1.53	6/16/98	AMPHIDIUM SPP.	1655.09
WF987	F13	WF9870D5	1.53	6/16/98	CALYCOMONAS WULFFII	243.24
WF987	F13	WF9870D5	1.53	6/16/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	12347.92
WF987	F13	WF9870D5	1.53	6/16/98	CERATAULINA PELAGICA	163612.62
WF987	F13	WF9870D5	1.53	6/16/98	CERATIUM LINEATUM	15445.76
WF987	F13	WF9870D5	1.53	6/16/98	CHAETOCEROS COMPRESSUS	277487.40
WF987	F13	WF9870D5	1.53	6/16/98	CHAETOCEROS DEBILIS	13530.20
WF987	F13	WF9870D5	1.53	6/16/98	CHAETOCEROS SEPTENTRIONALIS	NA
WF987	F13	WF9870D5	1.53	6/16/98	CHAETOCEROS SOCIALIS	197440.05
WF987	F13	WF9870D5	1.53	6/16/98	CHAETOCEROS SP. GROUP 2 DIAM 10-30 MICRONS	153428.79
WF987	F13	WF9870D5	1.53	6/16/98	CHAETOCEROS SPP. (<10UM)	135134.52
WF987	F13	WF9870D5	1.53	6/16/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	7523.88
WF987	F13	WF9870D5	1.53	6/16/98	CRYPTOMONAS SP. GROUP 2 LENGTH >10 MICRONS	2684.33
WF987	F13	WF9870D5	1.53	6/16/98	DINOPHYSIS NORVEGICA	NA
WF987	F13	WF9870D5	1.53	6/16/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	55467.10
WF987	F13	WF9870D5	1.53	6/16/98	GYRODINIUM SPIRALE	281730.45
WF987	F13	WF9870D5	1.53	6/16/98	LEPTOCYLINDRUS DANICUS	2945.92
WF987	F13	WF9870D5	1.53	6/16/98	PENNATE DIATOM SP. GROUP 2 10-30 MICRONS LENGTH	4236.78
WF987	F13	WF9870D5	1.53	6/16/98	PROBOSCIA ALATA	22010.55
WF987	F13	WF9870D5	1.53	6/16/98	PROTOPERIDIUM BIPES	16845.38
WF987	F13	WF9870D5	1.53	6/16/98	PROTOPERIDIUM PELLUCIDUM	194575.14
WF987	F13	WF9870D5	1.53	6/16/98	PSEUDONITZSCHIA PUNGENS	811.55
WF987	F13	WF9870D5	1.53	6/16/98	PYRAMIMONAS SP. GROUP 1 10-20 MICRONS LENGTH	NA
WF987	F13	WF9870D5	1.53	6/16/98	RHIZOLENIA FRAGILISSIMA	8046.64

Survey	Sta.	Sample Number	Depth (m)	Sampling Date	Plankton	Estimated Carbon Equivalence (ng Carbon/L)
WF987	F13	WF9870D5	1.53	6/16/98	SCENEDESMUS QUADRICAUDA	95.14
WF987	F13	WF9870D5	1.53	6/16/98	SKELETONEMA COSTATUM GREV+CLEVE	9420.09
WF987	F13	WF9870D5	1.53	6/16/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	153936.78
WF987	F13	WF9870D5	1.53	6/16/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	20350.51
WF987	F13	WF9870D5	1.53	6/16/98	ATHECATE DINOFLAGELLATE	NA
WF987	F13	WF9870D5	1.53	6/16/98	CERATIUM FUSUS	369.24
WF987	F13	WF9870D5	1.53	6/16/98	CERATIUM LINEATUM	100.97
WF987	F13	WF9870D5	1.53	6/16/98	CERATIUM LONGIPES	495.64
WF987	F13	WF9870D5	1.53	6/16/98	CERATIUM SPP.	62.36
WF987	F13	WF9870D5	1.53	6/16/98	CERATIUM TRIPOS	400.29
WF987	F13	WF9870D5	1.53	6/16/98	DINOPHYSIS NORVEGICA	NA
WF987	F13	WF9870D5	1.53	6/16/98	DISTEPHANUS SPECULUM	0.29
WF987	F13	WF9870D5	1.53	6/16/98	GYRODINIUM SP. GROUP 1 5-20UM W 10-20UM L	3.09
WF987	F13	WF9870D5	1.53	6/16/98	PROTOPERIDINIUM DEPRESSUM	347.42
WF987	F13	WF9870D5	1.53	6/16/98	PROTOPERIDINIUM DIVERGENS	19.82
WF987	F13	WF9870D5	1.53	6/16/98	PROTOPERIDINIUM PALLIDUM	19.22
WF987	F13	WF9870D5	1.53	6/16/98	PROTOPERIDINIUM SPP.	37.89
WF987	F13	WF9870D5	1.53	6/16/98	THECATE DINOFLAGELLATE SPP.	NA
WF987	F27	WF98715A	13.88	6/17/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	175.61
WF987	F27	WF98715A	13.88	6/17/98	CERATAULINA PELAGICA	9444.38
WF987	F27	WF98715A	13.88	6/17/98	CERATIUM FUSUS	31261.39
WF987	F27	WF98715A	13.88	6/17/98	CERATIUM LINEATUM	40412.99
WF987	F27	WF98715A	13.88	6/17/98	CERATIUM LONGIPES	93532.74
WF987	F27	WF98715A	13.88	6/17/98	CERATIUM TRIPOS	12017.63
WF987	F27	WF98715A	13.88	6/17/98	CHAETOCEROS COMPRESSUS	16254.42
WF987	F27	WF98715A	13.88	6/17/98	CHAETOCEROS DECIPIENS	15739.63
WF987	F27	WF98715A	13.88	6/17/98	CHAETOCEROS SOCIALIS	706.38
WF987	F27	WF98715A	13.88	6/17/98	CHAETOCEROS SP. GROUP 2 DIAM 10-30 MICRONS	7528.05
WF987	F27	WF98715A	13.88	6/17/98	CHAETOCEROS SPP.(<10UM)	4157.70
WF987	F27	WF98715A	13.88	6/17/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	205.09
WF987	F27	WF98715A	13.88	6/17/98	CRYPTOMONAS SP. GROUP 2 LENGTH >10 MICRONS	439.03
WF987	F27	WF98715A	13.88	6/17/98	CYLINDROTHECA CLOSTERIUM	242.45
WF987	F27	WF98715A	13.88	6/17/98	DINOPHYSIS NORVEGICA	NA
WF987	F27	WF98715A	13.88	6/17/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	7937.76
WF987	F27	WF98715A	13.88	6/17/98	GYMNODINIUM SP. GROUP 2 21-40UM W 21-50UM L	6281.64
WF987	F27	WF98715A	13.88	6/17/98	GYRODINIUM SPIRALE	92141.55
WF987	F27	WF98715A	13.88	6/17/98	HETEROCAPSA ROTUNDATA	223.16
WF987	F27	WF98715A	13.88	6/17/98	PENNATE DIATOM SP. GROUP 2 10-30 MICRONS LENGTH	692.93
WF987	F27	WF98715A	13.88	6/17/98	PROBOSCIA ALATA	38878.46
WF987	F27	WF98715A	13.88	6/17/98	PROTOPERIDINIUM DEPRESSUM	76488.41
WF987	F27	WF98715A	13.88	6/17/98	PSEUDONITZSCHIA DELICATISSIMA	221.26
WF987	F27	WF98715A	13.88	6/17/98	SKELETONEMA COSTATUM GREV+CLEVE	1576.03
WF987	F27	WF98715A	13.88	6/17/98	THALASSIONEMA NITZSCHIOIDES	881.64
WF987	F27	WF98715A	13.88	6/17/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	17810.50
WF987	F27	WF98715A	13.88	6/17/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	3994.03
WF987	F27	WF98715A	13.88	6/17/98	ATHECATE DINOFLAGELLATE	NA
WF987	F27	WF98715A	13.88	6/17/98	CERATIUM FUSUS	271.60
WF987	F27	WF98715A	13.88	6/17/98	CERATIUM LINEATUM	227.19
WF987	F27	WF98715A	13.88	6/17/98	CERATIUM LONGIPES	4407.69
WF987	F27	WF98715A	13.88	6/17/98	CERATIUM SPP.	140.32

Survey	Sta.	Sample Number	Depth (m)	Sampling Date	Plankton	Estimated Carbon Equivalence (ng Carbon/L)
WF987	F27	WF98715A	13.88	6/17/98	CERATIUM TRIPOS	2190.25
WF987	F27	WF98715A	13.88	6/17/98	DINOPHYSIS NORVEGICA	NA
WF987	F27	WF98715A	13.88	6/17/98	DISTEPHANUS SPECULUM	0.32
WF987	F27	WF98715A	13.88	6/17/98	HETEROCAPSA TRIQUETRA	1.02
WF987	F27	WF98715A	13.88	6/17/98	PROTOPERIDINIUM BREVIPIES	1.92
WF987	F27	WF98715A	13.88	6/17/98	PROTOPERIDINIUM DEPRESSUM	1172.54
WF987	F27	WF98715A	13.88	6/17/98	PROTOPERIDINIUM PALLIDUM	21.63
WF987	F27	WF98715A	13.88	6/17/98	PROTOPERIDINIUM SPP.	110.82
WF987	F27	WF98715A	13.88	6/17/98	PROTOPERIDINIUM TROCHOIDIUM	100.63
WF987	F27	WF98715B	1.48	6/17/98	AMPHIDIINIUM SPP.	2227.09
WF987	F27	WF98715B	1.48	6/17/98	CALYCOMONAS WULFFII	81.84
WF987	F27	WF98715B	1.48	6/17/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	90.31
WF987	F27	WF98715B	1.48	6/17/98	CERATAULINA PELAGICA	25256.97
WF987	F27	WF98715B	1.48	6/17/98	CERATIUM FUSUS	19295.52
WF987	F27	WF98715B	1.48	6/17/98	CERATIUM LONGIPES	106879.16
WF987	F27	WF98715B	1.48	6/17/98	CERATIUM TRIPOS	24721.98
WF987	F27	WF98715B	1.48	6/17/98	CHAETOCEROS COMPRESSUS	43057.19
WF987	F27	WF98715B	1.48	6/17/98	CHAETOCEROS SP. GROUP 2 DIAM 10-30 MICRONS	47926.79
WF987	F27	WF98715B	1.48	6/17/98	CHAETOCEROS SPP.(<10UM)	2475.86
WF987	F27	WF98715B	1.48	6/17/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	492.22
WF987	F27	WF98715B	1.48	6/17/98	CRYPTOMONAS SP. GROUP 2 LENGTH >10 MICRONS	451.57
WF987	F27	WF98715B	1.48	6/17/98	DINOPHYSIS NORVEGICA	NA
WF987	F27	WF98715B	1.48	6/17/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	8164.55
WF987	F27	WF98715B	1.48	6/17/98	GYMNODINIUM SP. GROUP 2 21-40UM W 21-50UM L	3230.56
WF987	F27	WF98715B	1.48	6/17/98	LEPTOCYLINDRUS DANICUS	1486.73
WF987	F27	WF98715B	1.48	6/17/98	LEPTOCYLINDRUS MINIMUS	1475.23
WF987	F27	WF98715B	1.48	6/17/98	PENNATE DIATOM SP. GROUP 2 10-30 MICRONS LENGTH	1069.09
WF987	F27	WF98715B	1.48	6/17/98	PROBOSCIA ALATA	248822.12
WF987	F27	WF98715B	1.48	6/17/98	PROTOPERIDINIUM SP. GROUP 1 10-30W 10-40L	5111.98
WF987	F27	WF98715B	1.48	6/17/98	RHIZOLENIA FRAGILISSIMA	3609.19
WF987	F27	WF98715B	1.48	6/17/98	SKELETONEMA COSTATUM GREV+CLEVE	155.87
WF987	F27	WF98715B	1.48	6/17/98	THALASSIONEMA NITZSCHIOIDES	906.83
WF987	F27	WF98715B	1.48	6/17/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	20354.86
WF987	F27	WF98715B	1.48	6/17/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	5477.52
WF987	F27	WF98715B	1.48	6/17/98	ATHECATE DINOFLAGELLATE	NA
WF987	F27	WF98715B	1.48	6/17/98	CERATIUM FUSUS	553.85
WF987	F27	WF98715B	1.48	6/17/98	CERATIUM LINEATUM	59.67
WF987	F27	WF98715B	1.48	6/17/98	CERATIUM LONGIPES	1278.45
WF987	F27	WF98715B	1.48	6/17/98	CERATIUM SPP.	54.05
WF987	F27	WF98715B	1.48	6/17/98	CERATIUM TRIPOS	2799.03
WF987	F27	WF98715B	1.48	6/17/98	DINOPHYSIS ACUMINATA	0.98
WF987	F27	WF98715B	1.48	6/17/98	DINOPHYSIS NORVEGICA	NA
WF987	F27	WF98715B	1.48	6/17/98	HETEROCAPSA TRIQUETRA	1.97
WF987	F27	WF98715B	1.48	6/17/98	PROTOPERIDINIUM BREVIPIES	3.69
WF987	F27	WF98715B	1.48	6/17/98	PROTOPERIDINIUM DEPRESSUM	250.91
WF987	F27	WF98715B	1.48	6/17/98	PROTOPERIDINIUM DIVERGENS	21.47
WF987	F27	WF98715B	1.48	6/17/98	PROTOPERIDINIUM PALLIDUM	124.95
WF987	F27	WF98715B	1.48	6/17/98	PROTOPERIDINIUM SPP.	57.46
WF987	F27	WF98715B	1.48	6/17/98	PROTOPERIDINIUM TROCHOIDIUM	153.59
WF987	F27	WF98715B	1.48	6/17/98	THECATE DINOFLAGELLATE SPP.	NA
WF987	F24	WF987189	7.19	6/17/98	AMPHIDIINIUM SPP.	1093.08

Survey	Sta.	Sample Number	Depth (m)	Sampling Date	Plankton	Estimated Carbon Equivalence (ng Carbon/L)
WF987	F24	WF987189	7.19	6/17/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	2260.36
WF987	F24	WF987189	7.19	6/17/98	CERATAULINA PELAGICA	680115.22
WF987	F24	WF987189	7.19	6/17/98	CHAETOCEROS COMPRESSUS	209247.72
WF987	F24	WF987189	7.19	6/17/98	CHAETOCEROS DECIPIENS	11918.87
WF987	F24	WF987189	7.19	6/17/98	CHAETOCEROS SP. GROUP 2 DIAM 10-30 MICRONS	112186.70
WF987	F24	WF987189	7.19	6/17/98	CHAETOCEROS SPP.(<10UM)	67598.52
WF987	F24	WF987189	7.19	6/17/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	2173.95
WF987	F24	WF987189	7.19	6/17/98	CRYPTOMONAS SP. GROUP 2 LENGTH >10 MICRONS	1329.62
WF987	F24	WF987189	7.19	6/17/98	CYLINDROTHECA CLOSTERIUM	1631.73
WF987	F24	WF987189	7.19	6/17/98	DINOPHYSIS NORVEGICA	NA
WF987	F24	WF987189	7.19	6/17/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	8585.74
WF987	F24	WF987189	7.19	6/17/98	GYRODINIUM SP. GROUP 2 21-40UM W 21-50UM L	63405.49
WF987	F24	WF987189	7.19	6/17/98	GYRODINIUM SPIRALE	46516.24
WF987	F24	WF987189	7.19	6/17/98	HETEROCAPSA ROTUNDATA	337.93
WF987	F24	WF987189	7.19	6/17/98	LEPTOCYLINDRUS DANICUS	3891.18
WF987	F24	WF987189	7.19	6/17/98	LEPTOCYLINDRUS MINIMUS	742.52
WF987	F24	WF987189	7.19	6/17/98	PROBOSCIA ALATA	130810.25
WF987	F24	WF987189	7.19	6/17/98	PSEUDONITZSCHIA DELICATISSIMA	3015.41
WF987	F24	WF987189	7.19	6/17/98	PYRAMIMONAS SP. GROUP 1 10-20 MICRONS LENGTH	NA
WF987	F24	WF987189	7.19	6/17/98	SKELETONEMA COSTATUM GREV+CLEVE	13054.68
WF987	F24	WF987189	7.19	6/17/98	THALASSIONEMA NITZSCHIOIDES	1335.06
WF987	F24	WF987189	7.19	6/17/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	39622.87
WF987	F24	WF987189	7.19	6/17/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	10080.16
WF987	F24	WF987189	7.19	6/17/98	ALEXANDRIUM TAMARENSE	0.51
WF987	F24	WF987189	7.19	6/17/98	CERATIUM FUSUS	872.79
WF987	F24	WF987189	7.19	6/17/98	CERATIUM LINEATUM	76.49
WF987	F24	WF987189	7.19	6/17/98	CERATIUM LONGIPES	7375.66
WF987	F24	WF987189	7.19	6/17/98	CERATIUM SPP.	415.76
WF987	F24	WF987189	7.19	6/17/98	CERATIUM TRIPOS	4169.74
WF987	F24	WF987189	7.19	6/17/98	DINOPHYSIS ACUMINATA	5.67
WF987	F24	WF987189	7.19	6/17/98	DINOPHYSIS NORVEGICA	NA
WF987	F24	WF987189	7.19	6/17/98	DISTEPHANUS SPECULUM	0.60
WF987	F24	WF987189	7.19	6/17/98	PROTOPERIDINIUM BREVIPES	28.42
WF987	F24	WF987189	7.19	6/17/98	PROTOPERIDINIUM DEPRESSUM	663.48
WF987	F24	WF987189	7.19	6/17/98	PROTOPERIDINIUM SPP.	47.36
WF987	F24	WF987189	7.19	6/17/98	PROTOPERIDINIUM TROCHOIDIUM	140.65
WF987	F24	WF987189	7.19	6/17/98	THECATE DINOFLAGELLATE SPP.	NA
WF987	F24	WF98718B	1.51	6/17/98	ALEXANDRIUM TAMARENSE	6681.27
WF987	F24	WF98718B	1.51	6/17/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	1083.77
WF987	F24	WF98718B	1.51	6/17/98	CERATAULINA PELAGICA	466282.48
WF987	F24	WF98718B	1.51	6/17/98	CERATIUM FUSUS	48238.81
WF987	F24	WF98718B	1.51	6/17/98	CERATIUM LINEATUM	31180.23
WF987	F24	WF98718B	1.51	6/17/98	CHAETOCEROS COMPRESSUS	221556.41
WF987	F24	WF98718B	1.51	6/17/98	CHAETOCEROS DECIPIENS	36431.25
WF987	F24	WF98718B	1.51	6/17/98	CHAETOCEROS SP. GROUP 2 DIAM 10-30 MICRONS	66369.73
WF987	F24	WF98718B	1.51	6/17/98	CHAETOCEROS SPP.(<10UM)	164757.33
WF987	F24	WF98718B	1.51	6/17/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	3797.10
WF987	F24	WF98718B	1.51	6/17/98	CRYPTOMONAS SP. GROUP 2 LENGTH >10 MICRONS	2709.42
WF987	F24	WF98718B	1.51	6/17/98	CYLINDROTHECA CLOSTERIUM	9973.65
WF987	F24	WF98718B	1.51	6/17/98	GYMNODINIUM SP. GROUP 2 21-40UM W 21-50UM L	516814.60
WF987	F24	WF98718B	1.51	6/17/98	GYRODINIUM SP. GROUP 1 5-20UM W 10-20UM L	3499.09
WF987	F24	WF98718B	1.51	6/17/98	GYRODINIUM SPIRALE	142181.72

Survey	Sta.	Sample Number	Depth (m)	Sampling Date	Plankton	Estimated Carbon Equivalence (ng Carbon/L)
WF987	F24	WF98718B	1.51	6/17/98	HETEROCAPSA ROTUNDATA	688.60
WF987	F24	WF98718B	1.51	6/17/98	HETEROCAPSA TRIQUETRA	36969.36
WF987	F24	WF98718B	1.51	6/17/98	LEPTOCYLINDRUS MINIMUS	5673.15
WF987	F24	WF98718B	1.51	6/17/98	PROBOSCIA ALATA	133297.57
WF987	F24	WF98718B	1.51	6/17/98	PSEUDONITZSCHIA DELICATISSIMA	23895.69
WF987	F24	WF98718B	1.51	6/17/98	RHIZOLENIA FRAGILISSIMA	10827.56
WF987	F24	WF98718B	1.51	6/17/98	SKELETONEMA COSTATUM GREV+CLEVE	387127.75
WF987	F24	WF98718B	1.51	6/17/98	THALASSIONEMA NITZSCHIOIDES	6801.26
WF987	F24	WF98718B	1.51	6/17/98	THALASSIOSIRA SP. GROUP 2 DIAM >20 MICRONS	17244.41
WF987	F24	WF98718B	1.51	6/17/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	110594.75
WF987	F24	WF98718B	1.51	6/17/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	12324.42
WF987	F24	WF98718B	1.51	6/17/98	ALEXANDRIUM TAMARENSE	0.64
WF987	F24	WF98718B	1.51	6/17/98	CERATIUM FUSUS	440.24
WF987	F24	WF98718B	1.51	6/17/98	CERATIUM LINEATUM	1327.95
WF987	F24	WF98718B	1.51	6/17/98	CERATIUM LONGIPES	9145.82
WF987	F24	WF98718B	1.51	6/17/98	CERATIUM SPP.	934.42
WF987	F24	WF98718B	1.51	6/17/98	CERATIUM TRIPOS	6345.58
WF987	F24	WF98718B	1.51	6/17/98	DINOPHYSIS ACUMINATA	11.72
WF987	F24	WF98718B	1.51	6/17/98	DINOPHYSIS NORVEGICA	NA
WF987	F24	WF98718B	1.51	6/17/98	GYRODINIUM SP. GROUP 1 5-20UM W 10-20UM L	0.33
WF987	F24	WF98718B	1.51	6/17/98	PROTOPERIDINIUM BREVIPES	17.62
WF987	F24	WF98718B	1.51	6/17/98	PROTOPERIDINIUM DEPRESSUM	673.13
WF987	F24	WF98718B	1.51	6/17/98	PROTOPERIDINIUM SPP.	78.30
WF987	F24	WF98718B	1.51	6/17/98	PROTOPERIDINIUM TROCHOIDIUM	767.36
WF987	F30	WF987198	5.97	6/17/98	CALYCOMONAS OVALIS	232.76
WF987	F30	WF987198	5.97	6/17/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	7777.03
WF987	F30	WF987198	5.97	6/17/98	CERATAULINA PELAGICA	521689.51
WF987	F30	WF987198	5.97	6/17/98	CHAETOCEROS COMPRESSUS	176114.90
WF987	F30	WF987198	5.97	6/17/98	CHAETOCEROS DECIPIENS	28110.54
WF987	F30	WF987198	5.97	6/17/98	CHAETOCEROS SOCIALIS	522741.04
WF987	F30	WF987198	5.97	6/17/98	CHAETOCEROS SP. GROUP 2 DIAM 10-30 MICRONS	58892.89
WF987	F30	WF987198	5.97	6/17/98	CHAETOCEROS SPP.(<10UM)	56894.80
WF987	F30	WF987198	5.97	6/17/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	26954.70
WF987	F30	WF987198	5.97	6/17/98	CRYPTOMONAS SP. GROUP 2 LENGTH >10 MICRONS	57700.55
WF987	F30	WF987198	5.97	6/17/98	CYLINDROTHECA CLOSTERIUM	4618.10
WF987	F30	WF987198	5.97	6/17/98	DINOPHYSIS NORVEGICA	NA
WF987	F30	WF987198	5.97	6/17/98	EBRIA TRIPARTITA	3679.68
WF987	F30	WF987198	5.97	6/17/98	EUTREPTIA/EUTREPTIELLA SPP.	NA
WF987	F30	WF987198	5.97	6/17/98	GRAMMATOPHORA MARINA	1457.14
WF987	F30	WF987198	5.97	6/17/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	93957.13
WF987	F30	WF987198	5.97	6/17/98	GYMNODINIUM SP. GROUP 2 21-40UM W 21-50UM L	119650.24
WF987	F30	WF987198	5.97	6/17/98	GYRODINIUM SPIRALE	65824.87
WF987	F30	WF987198	5.97	6/17/98	HETEROCAPSA TRIQUETRA	22820.59
WF987	F30	WF987198	5.97	6/17/98	PENNATE DIATOM SP. GROUP 2 10-30 MICRONS LENGTH	2969.71
WF987	F30	WF987198	5.97	6/17/98	PENNATE DIATOM SP. GROUP 3 31-60 MICRONS LENGTH	707.74
WF987	F30	WF987198	5.97	6/17/98	PROBOSCIA ALATA	20570.61
WF987	F30	WF987198	5.97	6/17/98	PROROCENTRUM MINIMUM	1162.15
WF987	F30	WF987198	5.97	6/17/98	PROTOPERIDINIUM SP. GROUP 1 10-30W 10-40L	5916.64
WF987	F30	WF987198	5.97	6/17/98	PSEUDONITZSCHIA DELICATISSIMA	1896.48
WF987	F30	WF987198	5.97	6/17/98	PYRAMIMONAS SP. GROUP 1 10-20 MICRONS LENGTH	NA

Survey	Sta.	Sample Number	Depth (m)	Sampling Date	Plankton	Estimated Carbon Equivalence (ng Carbon/L)
WF987	F30	WF987198	5.97	6/17/98	RHIZOLENIA FRAGILISSIMA	10025.52
WF987	F30	WF987198	5.97	6/17/98	SKELETONEMA COSTATUM GREV+CLEVE	36941.87
WF987	F30	WF987198	5.97	6/17/98	THALASSIONEMA NITZSCHIOIDES	2518.98
WF987	F30	WF987198	5.97	6/17/98	THALASSIOSIRA SP. GROUP 2 DIAM >20 MICRONS	23950.57
WF987	F30	WF987198	5.97	6/17/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	128788.48
WF987	F30	WF987198	5.97	6/17/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	22823.01
WF987	F30	WF987198	5.97	6/17/98	ATHECATE DINOFLAGELLATE	NA
WF987	F30	WF987198	5.97	6/17/98	CERATIUM FUSUS	205.92
WF987	F30	WF987198	5.97	6/17/98	CERATIUM LINEATUM	99.83
WF987	F30	WF987198	5.97	6/17/98	CERATIUM LONGIPES	1597.08
WF987	F30	WF987198	5.97	6/17/98	CERATIUM SPP.	542.57
WF987	F30	WF987198	5.97	6/17/98	CERATIUM TRIPOS	2066.67
WF987	F30	WF987198	5.97	6/17/98	DINOPHYSIS NORVEGICA	NA
WF987	F30	WF987198	5.97	6/17/98	EUGLENOID SPP.	NA
WF987	F30	WF987198	5.97	6/17/98	GYRODINIUM SP. GROUP 1 5-20UM W 10-20UM L	0.16
WF987	F30	WF987198	5.97	6/17/98	PROTOPERIDINIUM DEPRESSUM	279.87
WF987	F30	WF987198	5.97	6/17/98	PROTOPERIDINIUM PALLIDUM	139.37
WF987	F30	WF987198	5.97	6/17/98	PROTOPERIDINIUM SPP.	36.62
WF987	F30	WF987199	1.63	6/17/98	ASTERIONELLA FORMOSA	2265.67
WF987	F30	WF987199	1.63	6/17/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	5960.72
WF987	F30	WF987199	1.63	6/17/98	CERATAULINA PELAGICA	291426.55
WF987	F30	WF987199	1.63	6/17/98	CERATIUM TRIPOS	123609.92
WF987	F30	WF987199	1.63	6/17/98	CHAETOCEROS COMPRESSUS	158828.89
WF987	F30	WF987199	1.63	6/17/98	CHAETOCEROS DECIPIENS	36431.25
WF987	F30	WF987199	1.63	6/17/98	CHAETOCEROS SOCIALIS	375681.69
WF987	F30	WF987199	1.63	6/17/98	CHAETOCEROS SP. GROUP 2 DIAM 10-30 MICRONS	60838.92
WF987	F30	WF987199	1.63	6/17/98	CHAETOCEROS SPP. (<10UM)	10803.76
WF987	F30	WF987199	1.63	6/17/98	CHOANOFLLAGELLATE SPP.	4653.61
WF987	F30	WF987199	1.63	6/17/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	35228.61
WF987	F30	WF987199	1.63	6/17/98	CRYPTOMONAS SP. GROUP 2 LENGTH >10 MICRONS	24384.75
WF987	F30	WF987199	1.63	6/17/98	CYCLOTELLA SP. GROUP 2 DIAM 10-30 MICRONS	44177.52
WF987	F30	WF987199	1.63	6/17/98	EUTREPTIA/EUTREPTIELLA SPP.	NA
WF987	F30	WF987199	1.63	6/17/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	10497.28
WF987	F30	WF987199	1.63	6/17/98	GYRODINIUM SPIRALE	142181.72
WF987	F30	WF987199	1.63	6/17/98	HETEROCAPSA ROTUNDATA	4820.22
WF987	F30	WF987199	1.63	6/17/98	MERISMOPEDIA SPP.	112.16
WF987	F30	WF987199	1.63	6/17/98	PENNATE DIATOM SP. GROUP 2 10-30 MICRONS LENGTH	3207.28
WF987	F30	WF987199	1.63	6/17/98	PSEUDONITZSCHIA DELICATISSIMA	682.73
WF987	F30	WF987199	1.63	6/17/98	PYRAMIMONAS SP. GROUP 1 10-20 MICRONS LENGTH	NA
WF987	F30	WF987199	1.63	6/17/98	SKELETONEMA COSTATUM GREV+CLEVE	62339.41
WF987	F30	WF987199	1.63	6/17/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	105166.78
WF987	F30	WF987199	1.63	6/17/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	12324.42
WF987	F30	WF987199	1.63	6/17/98	ATHECATE DINOFLAGELLATE	NA
WF987	F30	WF987199	1.63	6/17/98	CERATIUM FUSUS	133.14
WF987	F30	WF987199	1.63	6/17/98	CERATIUM LINEATUM	525.90
WF987	F30	WF987199	1.63	6/17/98	CERATIUM LONGIPES	934.25
WF987	F30	WF987199	1.63	6/17/98	CERATIUM SPP.	129.93
WF987	F30	WF987199	1.63	6/17/98	CERATIUM TRIPOS	1288.83
WF987	F30	WF987199	1.63	6/17/98	DINOPHYSIS ACUMINATA	11.34
WF987	F30	WF987199	1.63	6/17/98	DINOPHYSIS NORVEGICA	NA

Survey	Sta.	Sample Number	Depth (m)	Sampling Date	Plankton	Estimated Carbon Equivalence (ng Carbon/L)
WF987	F30	WF987199	1.63	6/17/98	GYRODINIUM SP. GROUP 1 5-20UM W 10-20UM L	3.49
WF987	F30	WF987199	1.63	6/17/98	MESODINIUM RUBRUM	NA
WF987	F30	WF987199	1.63	6/17/98	PROTOPERIDIUM BREVIPES	37.30
WF987	F30	WF987199	1.63	6/17/98	PROTOPERIDIUM DEPRESSUM	1326.95
WF987	F30	WF987199	1.63	6/17/98	PROTOPERIDIUM PYRIFORME	NA
WF987	F30	WF987199	1.63	6/17/98	PROTOPERIDIUM SPP.	173.65
WF987	F30	WF987199	1.63	6/17/98	PROTOPERIDIUM TROCHOIDIUM	158.23
WF987	F30	WF987199	1.63	6/17/98	THECATE DINOFLAGELLATE SPP.	NA
WF987	N16	WF9871D5	19.53	6/18/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	6773.54
WF987	N16	WF9871D5	19.53	6/18/98	CERATAULINA PELAGICA	80951.82
WF987	N16	WF9871D5	19.53	6/18/98	CERATIUM FUSUS	22332.78
WF987	N16	WF9871D5	19.53	6/18/98	CERATIUM LINEATUM	28870.58
WF987	N16	WF9871D5	19.53	6/18/98	CERATIUM LONGIPES	74232.33
WF987	N16	WF9871D5	19.53	6/18/98	CERATIUM TRIPOS	457748.61
WF987	N16	WF9871D5	19.53	6/18/98	CHAETOCEROS COMPRESSUS	104507.74
WF987	N16	WF9871D5	19.53	6/18/98	CHAETOCEROS SOCIALIS	101857.63
WF987	N16	WF9871D5	19.53	6/18/98	CHAETOCEROS SP. GROUP 2 DIAM 10-30 MICRONS	58892.89
WF987	N16	WF9871D5	19.53	6/18/98	CHAETOCEROS SPP. (<10UM)	260715.72
WF987	N16	WF9871D5	19.53	6/18/98	CHOANOFLLAGELLATE SPP.	1846.67
WF987	N16	WF9871D5	19.53	6/18/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	1562.59
WF987	N16	WF9871D5	19.53	6/18/98	DINOPHYSIS NORVEGICA	NA
WF987	N16	WF9871D5	19.53	6/18/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	12959.60
WF987	N16	WF9871D5	19.53	6/18/98	GYMNODINIUM SP. GROUP 2 21-40UM W 21-50UM L	119633.01
WF987	N16	WF9871D5	19.53	6/18/98	LEPTOCYLINDRUS MINIMUS	525.37
WF987	N16	WF9871D5	19.53	6/18/98	PENNATE DIATOM SP. GROUP 2 10-30 MICRONS LENGTH	35636.49
WF987	N16	WF9871D5	19.53	6/18/98	PROBOSCIA ALATA	61711.84
WF987	N16	WF9871D5	19.53	6/18/98	PROTOPERIDIUM DEPRESSUM	1456712.21
WF987	N16	WF9871D5	19.53	6/18/98	PSEUDONITZSCHIA DELICATISSIMA	3160.81
WF987	N16	WF9871D5	19.53	6/18/98	RHIZOLENIA DELICATULA	1707.52
WF987	N16	WF9871D5	19.53	6/18/98	RHIZOLENIA FRAGILISSIMA	7520.22
WF987	N16	WF9871D5	19.53	6/18/98	SCRIPPSIELLA TROCHOIDEA	5308.25
WF987	N16	WF9871D5	19.53	6/18/98	SKELETONEMA COSTATUM GREV+CLEVE	1010.27
WF987	N16	WF9871D5	19.53	6/18/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	54656.57
WF987	N16	WF9871D5	19.53	6/18/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	3803.83
WF987	N16	WF9871D5	19.53	6/18/98	ATHECATE DINOFLAGELLATE	NA
WF987	N16	WF9871D5	19.53	6/18/98	CERATIUM FUSUS	857.41
WF987	N16	WF9871D5	19.53	6/18/98	CERATIUM LINEATUM	1365.43
WF987	N16	WF9871D5	19.53	6/18/98	CERATIUM LONGIPES	6298.81
WF987	N16	WF9871D5	19.53	6/18/98	CERATIUM SPP.	622.08
WF987	N16	WF9871D5	19.53	6/18/98	CERATIUM TRIPOS	5556.36
WF987	N16	WF9871D5	19.53	6/18/98	DINOPHYSIS NORVEGICA	NA
WF987	N16	WF9871D5	19.53	6/18/98	GYRODINIUM SP. GROUP 1 5-20UM W 10-20UM L	0.45
WF987	N16	WF9871D5	19.53	6/18/98	PROTOPERIDIUM BREVIPES	14.92
WF987	N16	WF9871D5	19.53	6/18/98	PROTOPERIDIUM DEPRESSUM	4154.57
WF987	N16	WF9871D5	19.53	6/18/98	PROTOPERIDIUM SPP.	152.50
WF987	N16	WF9871D5	19.53	6/18/98	PROTOPERIDIUM TROCHOIDIUM	23.63
WF987	N16	WF9871D7	1.51	6/18/98	CALYCOMONAS WULFFII	75.77
WF987	N16	WF9871D7	1.51	6/18/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	501.74
WF987	N16	WF9871D7	1.51	6/18/98	CERATAULINA PELAGICA	29982.16
WF987	N16	WF9871D7	1.51	6/18/98	CERATIUM FUSUS	29772.75
WF987	N16	WF9871D7	1.51	6/18/98	CHAETOCEROS SP. GROUP 2 DIAM 10-30 MICRONS	46090.09

Survey	Sta.	Sample Number	Depth (m)	Sampling Date	Plankton	Estimated Carbon Equivalence (ng Carbon/L)
WF987	N16	WF9871D7	1.51	6/18/98	CHAETOCEROS SPP.<(10UM)	12087.54
WF987	N16	WF9871D7	1.51	6/18/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	585.97
WF987	N16	WF9871D7	1.51	6/18/98	CYLINDROTHECA CLOSTERIUM	3848.41
WF987	N16	WF9871D7	1.51	6/18/98	EBRIA TRIPARTITA	2453.12
WF987	N16	WF9871D7	1.51	6/18/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	31319.04
WF987	N16	WF9871D7	1.51	6/18/98	GYMNODINIUM SP. GROUP 2 21-40UM W 21-50UM L	19941.71
WF987	N16	WF9871D7	1.51	6/18/98	LEPTOCYLINDRUS DANICUS	5505.60
WF987	N16	WF9871D7	1.51	6/18/98	LEPTOCYLINDRUS MINIMUS	700.49
WF987	N16	WF9871D7	1.51	6/18/98	PROBOSCIA ALATA	137137.41
WF987	N16	WF9871D7	1.51	6/18/98	PSEUDONITZSCHIA DELICATISSIMA	10221.41
WF987	N16	WF9871D7	1.51	6/18/98	SCRIPPSIELLA TROCHOIDEA	10616.49
WF987	N16	WF9871D7	1.51	6/18/98	SKELETONEMA COSTATUM GREV+CLEVE	42329.23
WF987	N16	WF9871D7	1.51	6/18/98	THALASSIONEMA NITZSCHIOIDES	5457.80
WF987	N16	WF9871D7	1.51	6/18/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	28689.47
WF987	N16	WF9871D7	1.51	6/18/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	26626.84
WF987	N16	WF9871D7	1.51	6/18/98	ATHECATE DINOFLAGELLATE	NA
WF987	N16	WF9871D7	1.51	6/18/98	CERATIUM FUSUS	170.12
WF987	N16	WF9871D7	1.51	6/18/98	CERATIUM LINEATUM	119.52
WF987	N16	WF9871D7	1.51	6/18/98	CERATIUM LONGIPES	3097.78
WF987	N16	WF9871D7	1.51	6/18/98	CERATIUM SPP.	259.85
WF987	N16	WF9871D7	1.51	6/18/98	CERATIUM TRIPOS	2899.86
WF987	N16	WF9871D7	1.51	6/18/98	DINOPHYSIS NORVEGICA	NA
WF987	N16	WF9871D7	1.51	6/18/98	DISTEPHANUS SPECULUM	0.30
WF987	N16	WF9871D7	1.51	6/18/98	GYRODINIUM SP. GROUP 1 5-20UM W 10-20UM L	0.13
WF987	N16	WF9871D7	1.51	6/18/98	MESODINIUM RUBRUM	NA
WF987	N16	WF9871D7	1.51	6/18/98	PROTOPERIDINIUM BREVIPEDES	3.55
WF987	N16	WF9871D7	1.51	6/18/98	PROTOPERIDINIUM DEPRESSUM	241.26
WF987	N16	WF9871D7	1.51	6/18/98	PROTOPERIDINIUM SPP.	71.04
WF987	N16	WF9871D7	1.51	6/18/98	PROTOPERIDINIUM TROCHOIDIUM	79.11
WF987	F25	WF9871EF	2.54	6/18/98	CALYCOMONAS WULFFII	238.69
WF987	F25	WF9871EF	2.54	6/18/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	6585.39
WF987	F25	WF9871EF	2.54	6/18/98	CERATAULINA PELAGICA	396663.92
WF987	F25	WF9871EF	2.54	6/18/98	CERATIUM LINEATUM	60619.49
WF987	F25	WF9871EF	2.54	6/18/98	CERATIUM LONGIPES	155887.89
WF987	F25	WF9871EF	2.54	6/18/98	CHAETOCEROS COMPRESSUS	877738.60
WF987	F25	WF9871EF	2.54	6/18/98	CHAETOCEROS DECIPIENS	118047.25
WF987	F25	WF9871EF	2.54	6/18/98	CHAETOCEROS LACINIOSUS	36514.46
WF987	F25	WF9871EF	2.54	6/18/98	CHAETOCEROS SOCIALIS	201793.42
WF987	F25	WF9871EF	2.54	6/18/98	CHAETOCEROS SP. GROUP 2 DIAM 10-30 MICRONS	150560.97
WF987	F25	WF9871EF	2.54	6/18/98	CHAETOCEROS SPP.<(10UM)	105693.03
WF987	F25	WF9871EF	2.54	6/18/98	CHOANOFLAGELLATE SPP.	3231.67
WF987	F25	WF9871EF	2.54	6/18/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	16202.12
WF987	F25	WF9871EF	2.54	6/18/98	CRYPTOMONAS SP. GROUP 2 LENGTH >10 MICRONS	7902.47
WF987	F25	WF9871EF	2.54	6/18/98	CYLINDROTHECA CLOSTERIUM	7273.50
WF987	F25	WF9871EF	2.54	6/18/98	DINOPHYSIS NORVEGICA	NA
WF987	F25	WF9871EF	2.54	6/18/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	105458.77
WF987	F25	WF9871EF	2.54	6/18/98	GYMNODINIUM SP. GROUP 2 21-40UM W 21-50UM L	62816.38
WF987	F25	WF9871EF	2.54	6/18/98	LEPTOCYLINDRUS MINIMUS	551.64
WF987	F25	WF9871EF	2.54	6/18/98	PENNATE DIATOM SP. GROUP 2 10-30 MICRONS LENGTH	3118.19
WF987	F25	WF9871EF	2.54	6/18/98	PROBOSCIA ALATA	43198.29
WF987	F25	WF9871EF	2.54	6/18/98	PSEUDONITZSCHIA DELICATISSIMA	27878.30

Survey	Sta.	Sample Number	Depth (m)	Sampling Date	Plankton	Estimated Carbon Equivalence (ng Carbon/L)
WF987	F25	WF9871EF	2.54	6/18/98	PSEUDONITZSCHIA PUNGENS	2389.15
WF987	F25	WF9871EF	2.54	6/18/98	PYRAMIMONAS SP. GROUP 1 10-20 MICRONS LENGTH	NA
WF987	F25	WF9871EF	2.54	6/18/98	RHIZOLENIA FRAGILISSIMA	5264.16
WF987	F25	WF9871EF	2.54	6/18/98	SCRIPPSIELLA TROCHOIDEA	11147.32
WF987	F25	WF9871EF	2.54	6/18/98	SKELETONEMA COSTATUM GREV+CLEVE	203642.08
WF987	F25	WF9871EF	2.54	6/18/98	THALASSIONEMA NITZSCHIOIDES	33061.66
WF987	F25	WF9871EF	2.54	6/18/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	136547.20
WF987	F25	WF9871EF	2.54	6/18/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	31952.21
WF987	F25	WF9871EF	2.54	6/18/98	ATHECATE DINOFLAGELLATE	NA
WF987	F25	WF9871EF	2.54	6/18/98	CERATIUM FUSUS	1011.85
WF987	F25	WF9871EF	2.54	6/18/98	CERATIUM LINEATUM	1078.58
WF987	F25	WF9871EF	2.54	6/18/98	CERATIUM LONGIPES	6431.57
WF987	F25	WF9871EF	2.54	6/18/98	CERATIUM SPP.	436.55
WF987	F25	WF9871EF	2.54	6/18/98	CERATIUM TRIPOS	5504.05
WF987	F25	WF9871EF	2.54	6/18/98	DINOPHYSIS NORVEGICA	NA
WF987	F25	WF9871EF	2.54	6/18/98	GYRODINIUM SP. GROUP 1 5-20UM W 10-20UM L	2.58
WF987	F25	WF9871EF	2.54	6/18/98	PROTOPERIDINIUM BREVIPIES	29.84
WF987	F25	WF9871EF	2.54	6/18/98	PROTOPERIDINIUM DEPRESSUM	1737.10
WF987	F25	WF9871EF	2.54	6/18/98	PROTOPERIDINIUM PALLIDUM	96.12
WF987	F25	WF9871EF	2.54	6/18/98	PROTOPERIDINIUM SPP.	113.66
WF987	F25	WF9871EF	2.54	6/18/98	PROTOPERIDINIUM TROCHOIDIUM	248.94
WF987	F25	WF9871EF	2.54	6/18/98	THECATE DINOFLAGELLATE SPP.	NA
WF987	F25	WF9871F1	1.28	6/18/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	1565.44
WF987	F25	WF9871F1	1.28	6/18/98	CERATAULINA PELAGICA	523772.79
WF987	F25	WF9871F1	1.28	6/18/98	CERATIUM TRIPOS	119031.78
WF987	F25	WF9871F1	1.28	6/18/98	CHAETOCEROS COMPRESSUS	450789.21
WF987	F25	WF9871F1	1.28	6/18/98	CHAETOCEROS SOCIALIS	55964.04
WF987	F25	WF9871F1	1.28	6/18/98	CHAETOCEROS SP. GROUP 2 DIAM 10-30 MICRONS	250320.41
WF987	F25	WF9871F1	1.28	6/18/98	CHAETOCEROS SPP.(<10UM)	32511.31
WF987	F25	WF9871F1	1.28	6/18/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	12594.48
WF987	F25	WF9871F1	1.28	6/18/98	CRYPTOMONAS SP. GROUP 2 LENGTH >10 MICRONS	5218.14
WF987	F25	WF9871F1	1.28	6/18/98	DINOPHYSIS NORVEGICA	NA
WF987	F25	WF9871F1	1.28	6/18/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	114562.90
WF987	F25	WF9871F1	1.28	6/18/98	GYMNODINIUM SP. GROUP 2 21-40UM W 21-50UM L	31109.06
WF987	F25	WF9871F1	1.28	6/18/98	GYRODINIUM SPIRALE	547584.07
WF987	F25	WF9871F1	1.28	6/18/98	HETEROCAPSA ROTUNDATA	3315.49
WF987	F25	WF9871F1	1.28	6/18/98	HETEROCAPSA TRIQUETRA	23733.42
WF987	F25	WF9871F1	1.28	6/18/98	LEPTOCYLINDRUS MINIMUS	2185.21
WF987	F25	WF9871F1	1.28	6/18/98	PENNATE DIATOM SP. GROUP 2 10-30 MICRONS LENGTH	3088.50
WF987	F25	WF9871F1	1.28	6/18/98	PSEUDONITZSCHIA DELICATISSIMA	52595.80
WF987	F25	WF9871F1	1.28	6/18/98	PSEUDONITZSCHIA PUNGENS	1577.37
WF987	F25	WF9871F1	1.28	6/18/98	PYRAMIMONAS SP. GROUP 1 10-20 MICRONS LENGTH	NA
WF987	F25	WF9871F1	1.28	6/18/98	SCRIPPSIELLA TROCHOIDEA	11041.15
WF987	F25	WF9871F1	1.28	6/18/98	SKELETONEMA COSTATUM GREV+CLEVE	602706.68
WF987	F25	WF9871F1	1.28	6/18/98	THALASSIONEMA NITZSCHIOIDES	30127.05
WF987	F25	WF9871F1	1.28	6/18/98	THALASSIOSIRA SP. GROUP 2 DIAM >20 MICRONS	8304.06
WF987	F25	WF9871F1	1.28	6/18/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	102578.45
WF987	F25	WF9871F1	1.28	6/18/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	23735.93
WF987	F25	WF9871F1	1.28	6/18/98	ATHECATE DINOFLAGELLATE	NA
WF987	F25	WF9871F1	1.28	6/18/98	CERATIUM FUSUS	994.10

Survey	Sta.	Sample Number	Depth (m)	Sampling Date	Plankton	Estimated Carbon Equivalence (ng Carbon/L)
WF987	F25	WF9871F1	1.28	6/18/98	CERATIUM LINEATUM	3373.42
WF987	F25	WF9871F1	1.28	6/18/98	CERATIUM LONGIPES	8555.76
WF987	F25	WF9871F1	1.28	6/18/98	CERATIUM SPP.	1309.65
WF987	F25	WF9871F1	1.28	6/18/98	CERATIUM TRIPOS	11326.52
WF987	F25	WF9871F1	1.28	6/18/98	DINOPHYSIS ACUMINATA	16.44
WF987	F25	WF9871F1	1.28	6/18/98	DINOPHYSIS NORVEGICA	NA
WF987	F25	WF9871F1	1.28	6/18/98	DISTEPHANUS SPECULUM	2.16
WF987	F25	WF9871F1	1.28	6/18/98	GYRODINIUM SP. GROUP 1 5-20UM W 10-20UM L	12.23
WF987	F25	WF9871F1	1.28	6/18/98	PROTOPERIDIUM BREVIPES	6.39
WF987	F25	WF9871F1	1.28	6/18/98	PROTOPERIDIUM DEPRESSUM	2895.17
WF987	F25	WF9871F1	1.28	6/18/98	PROTOPERIDIUM SPP.	151.55
WF987	F25	WF9871F1	1.28	6/18/98	PROTOPERIDIUM TROCHOIDIUM	999.99
WF987	F25	WF9871F1	1.28	6/18/98	THECATE DINOFLAGELLATE SPP.	NA
WF987	F23	WF987209	9.51	6/21/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	1053.66
WF987	F23	WF987209	9.51	6/21/98	CERATAULINA PELAGICA	491036.99
WF987	F23	WF987209	9.51	6/21/98	CERATIUM LONGIPES	311730.89
WF987	F23	WF987209	9.51	6/21/98	CERATIUM TRIPOS	240318.02
WF987	F23	WF987209	9.51	6/21/98	CHAETOCEROS COMPRESSUS	150375.03
WF987	F23	WF987209	9.51	6/21/98	CHAETOCEROS DECIPIENS	94437.80
WF987	F23	WF987209	9.51	6/21/98	CHAETOCEROS SOCIALIS	375335.76
WF987	F23	WF987209	9.51	6/21/98	CHAETOCEROS SP. GROUP 2 DIAM 10-30 MICRONS	107543.55
WF987	F23	WF987209	9.51	6/21/98	CHAETOCEROS SPP.(<10UM)	76151.50
WF987	F23	WF987209	9.51	6/21/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	2461.08
WF987	F23	WF987209	9.51	6/21/98	CRYPTOMONAS SP. GROUP 2 LENGTH >10 MICRONS	3951.23
WF987	F23	WF987209	9.51	6/21/98	CYLINDROTHECA CLOSTERIUM	19393.22
WF987	F23	WF987209	9.51	6/21/98	DINOPHYSIS NORVEGICA	NA
WF987	F23	WF987209	9.51	6/21/98	EUTREPTIA/EUTREPTIELLA SPP.	NA
WF987	F23	WF987209	9.51	6/21/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	40822.75
WF987	F23	WF987209	9.51	6/21/98	GYMNODINIUM SP. GROUP 2 21-40UM W 21-50UM L	94224.56
WF987	F23	WF987209	9.51	6/21/98	HETEROCAPSA TRIQUETRA	5991.27
WF987	F23	WF987209	9.51	6/21/98	PENNATE DIATOM SP. GROUP 2 10-30 MICRONS LENGTH	1039.40
WF987	F23	WF987209	9.51	6/21/98	PROBOSCIA ALATA	86396.57
WF987	F23	WF987209	9.51	6/21/98	PROTOPERIDIUM SP. GROUP 1 10-30W 10-40L	12424.95
WF987	F23	WF987209	9.51	6/21/98	PSEUDONITZSCHIA DELICATISSIMA	51110.22
WF987	F23	WF987209	9.51	6/21/98	RHIZOLENIA DELICATULA	14341.09
WF987	F23	WF987209	9.51	6/21/98	RHIZOLENIA FRAGILISSIMA	26320.78
WF987	F23	WF987209	9.51	6/21/98	SKELETONEMA COSTATUM GREV+CLEVE	63638.15
WF987	F23	WF987209	9.51	6/21/98	THALASSIONEMA NITZSCHIOIDES	27771.80
WF987	F23	WF987209	9.51	6/21/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	52112.21
WF987	F23	WF987209	9.51	6/21/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	19970.13
WF987	F23	WF987209	9.51	6/21/98	ATHECATE DINOFLAGELLATE	NA
WF987	F23	WF987209	9.51	6/21/98	CERATIUM FUSUS	681.67
WF987	F23	WF987209	9.51	6/21/98	CERATIUM LINEATUM	2374.40
WF987	F23	WF987209	9.51	6/21/98	CERATIUM LONGIPES	1636.41
WF987	F23	WF987209	9.51	6/21/98	CERATIUM SPP.	731.74
WF987	F23	WF987209	9.51	6/21/98	CERATIUM TRIPOS	2717.15
WF987	F23	WF987209	9.51	6/21/98	DINOPHYSIS ACUMINATA	38.70
WF987	F23	WF987209	9.51	6/21/98	DINOPHYSIS NORVEGICA	NA
WF987	F23	WF987209	9.51	6/21/98	DISTEPHANUS SPECULUM	0.38
WF987	F23	WF987209	9.51	6/21/98	PROROCENTRUM MINIMUM	0.25
WF987	F23	WF987209	9.51	6/21/98	PROTOPERIDIUM BREVIPES	43.19

Survey	Sta.	Sample Number	Depth (m)	Sampling Date	Plankton	Estimated Carbon Equivalence (ng Carbon/L)
WF987	F23	WF987209	9.51	6/21/98	PROTOPIRIDINIUM PALLIDUM	102.52
WF987	F23	WF987209	9.51	6/21/98	PROTOPIRIDINIUM SPP.	101.03
WF987	F23	WF987209	9.51	6/21/98	PROTOPIRIDINIUM TROCHOIDIUM	459.07
WF987	F23	WF987209	9.51	6/21/98	THECATE DINOFLAGELLATE SPP.	NA
WF987	F23	WF98720B	1.66	6/21/98	AMPHIDIINIUM SPP.	6681.27
WF987	F23	WF98720B	1.66	6/21/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	4335.07
WF987	F23	WF98720B	1.66	6/21/98	CERATAULINA PELAGICA	543996.23
WF987	F23	WF98720B	1.66	6/21/98	CERATIUM FUSUS	192927.44
WF987	F23	WF98720B	1.66	6/21/98	CERATIUM LINEATUM	218261.60
WF987	F23	WF98720B	1.66	6/21/98	CERATIUM LONGIPES	320683.67
WF987	F23	WF98720B	1.66	6/21/98	CERATIUM TRIPOS	247184.25
WF987	F23	WF98720B	1.66	6/21/98	CHAETOCEROS COMPRESSUS	217344.80
WF987	F23	WF98720B	1.66	6/21/98	CHAETOCEROS DECIPIENS	145704.03
WF987	F23	WF98720B	1.66	6/21/98	CHAETOCEROS SOCIALIS	50859.27
WF987	F23	WF98720B	1.66	6/21/98	CHAETOCEROS SP. GROUP 2 DIAM 10-30 MICRONS	16592.43
WF987	F23	WF98720B	1.66	6/21/98	CHAETOCEROS SPP.(<10UM)	73600.61
WF987	F23	WF98720B	1.66	6/21/98	CHAETOCEROS SUBTILIS	7281.26
WF987	F23	WF98720B	1.66	6/21/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	5695.64
WF987	F23	WF98720B	1.66	6/21/98	CYLINDROTHECA CLOSTERIUM	4986.83
WF987	F23	WF98720B	1.66	6/21/98	DINOPHYSIS NORVEGICA	NA
WF987	F23	WF98720B	1.66	6/21/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	108471.88
WF987	F23	WF98720B	1.66	6/21/98	GYMNODINIUM SP. GROUP 2 21-40UM W 21-50UM L	452277.90
WF987	F23	WF98720B	1.66	6/21/98	GYRODINIUM SPIRALE	568726.89
WF987	F23	WF98720B	1.66	6/21/98	HETEROCAPSA TRIQUETRA	61615.60
WF987	F23	WF98720B	1.66	6/21/98	LEPTOCYLINDRUS DANICUS	11892.09
WF987	F23	WF98720B	1.66	6/21/98	LEPTOCYLINDRUS MINIMUS	2553.28
WF987	F23	WF98720B	1.66	6/21/98	PROBOSCIA ALATA	44432.52
WF987	F23	WF98720B	1.66	6/21/98	PROROCENTRUM MICANS	20156.63
WF987	F23	WF98720B	1.66	6/21/98	PSEUDONITZSCHIA DELICATISSIMA	58715.12
WF987	F23	WF98720B	1.66	6/21/98	PSEUDONITZSCHIA PUNGENS	4914.12
WF987	F23	WF98720B	1.66	6/21/98	RHIZOLENIA DELICATULA	14750.84
WF987	F23	WF98720B	1.66	6/21/98	RHIZOLENIA FRAGILISSIMA	43310.24
WF987	F23	WF98720B	1.66	6/21/98	SCRIPPSIELLA TROCHOIDEA	22928.32
WF987	F23	WF98720B	1.66	6/21/98	SKELETONEMA COSTATUM GREV+CLEVE	337256.22
WF987	F23	WF98720B	1.66	6/21/98	THALASSIONEMA NITZSCHIOIDES	29929.84
WF987	F23	WF98720B	1.66	6/21/98	THALASSIOSIRA SP. GROUP 2 DIAM >20 MICRONS	8622.21
WF987	F23	WF98720B	1.66	6/21/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	122129.17
WF987	F23	WF98720B	1.66	6/21/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	65730.26
WF987	F23	WF98720B	1.66	6/21/98	CERATIUM FUSUS	2416.45
WF987	F23	WF98720B	1.66	6/21/98	CERATIUM LINEATUM	12337.66
WF987	F23	WF98720B	1.66	6/21/98	CERATIUM LONGIPES	3423.78
WF987	F23	WF98720B	1.66	6/21/98	CERATIUM SPP.	2118.05
WF987	F23	WF98720B	1.66	6/21/98	CERATIUM TRIPOS	15023.56
WF987	F23	WF98720B	1.66	6/21/98	DINOPHYSIS ACUMINATA	14.34
WF987	F23	WF98720B	1.66	6/21/98	DINOPHYSIS NORVEGICA	NA
WF987	F23	WF98720B	1.66	6/21/98	PROROCENTRUM MINIMUM	1.52
WF987	F23	WF98720B	1.66	6/21/98	PROTOPIRIDINIUM BREVIPIES	11.72
WF987	F23	WF98720B	1.66	6/21/98	PROTOPIRIDINIUM DEPRESSUM	955.41
WF987	F23	WF98720B	1.66	6/21/98	PROTOPIRIDINIUM SPP.	114.61
WF987	F23	WF98720B	1.66	6/21/98	PROTOPIRIDINIUM TROCHOIDIUM	835.44
WF987	N04	WF98721C	4.07	6/21/98	AMPHIDIINIUM SPP.	3340.64
WF987	N04	WF98721C	4.07	6/21/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	677.35

Survey	Sta.	Sample Number	Depth (m)	Sampling Date	Plankton	Estimated Carbon Equivalence (ng Carbon/L)
WF987	N04	WF98721C	4.07	6/21/98	CERATAULINA PELAGICA	7771.37
WF987	N04	WF98721C	4.07	6/21/98	CERATIUM FUSUS	24119.40
WF987	N04	WF98721C	4.07	6/21/98	CERATIUM LONGIPES	448957.13
WF987	N04	WF98721C	4.07	6/21/98	CHAETOCEROS COMPRESSUS	43057.19
WF987	N04	WF98721C	4.07	6/21/98	CHAETOCEROS CONVOLUTUS	NA
WF987	N04	WF98721C	4.07	6/21/98	CHAETOCEROS DECIPIENS	60710.01
WF987	N04	WF98721C	4.07	6/21/98	CHAETOCEROS SEPTENTRIONALIS	NA
WF987	N04	WF98721C	4.07	6/21/98	CHAETOCEROS SOCIALIS	6020.08
WF987	N04	WF98721C	4.07	6/21/98	CHAETOCEROS SP. GROUP 2 DIAM 10-30 MICRONS	11614.70
WF987	N04	WF98721C	4.07	6/21/98	CHAETOCEROS SPP.(<10UM)	3376.17
WF987	N04	WF98721C	4.07	6/21/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	2636.87
WF987	N04	WF98721C	4.07	6/21/98	CRYPTOMONAS SP. GROUP 2 LENGTH >10 MICRONS	677.35
WF987	N04	WF98721C	4.07	6/21/98	CYLINDROTHECA CLOSTERIUM	2493.41
WF987	N04	WF98721C	4.07	6/21/98	DINOPHYSIS NORVEGICA	NA
WF987	N04	WF98721C	4.07	6/21/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	20994.56
WF987	N04	WF98721C	4.07	6/21/98	GYRODINIUM SP. GROUP 2 21-40UM W 21-50UM L	64601.82
WF987	N04	WF98721C	4.07	6/21/98	GYRODINIUM SPIRALE	14218.17
WF987	N04	WF98721C	4.07	6/21/98	HETEROCAPSA TRIQUETRA	1232.49
WF987	N04	WF98721C	4.07	6/21/98	LEPTOCYLINDRUS DANICUS	4757.52
WF987	N04	WF98721C	4.07	6/21/98	LEPTOCYLINDRUS MINIMUS	85.11
WF987	N04	WF98721C	4.07	6/21/98	LICMOPHORA SPP.	149.25
WF987	N04	WF98721C	4.07	6/21/98	PENNATE DIATOM SP. GROUP 2 10-30 MICRONS LENGTH	2672.74
WF987	N04	WF98721C	4.07	6/21/98	PROBOSCIA ALATA	44432.52
WF987	N04	WF98721C	4.07	6/21/98	PSEUDONITZSCHIA DELICATISSIMA	2730.94
WF987	N04	WF98721C	4.07	6/21/98	RHIZOLENIA FRAGILISSIMA	4331.65
WF987	N04	WF98721C	4.07	6/21/98	SKELETONEMA COSTATUM GREV+CLEVE	4738.48
WF987	N04	WF98721C	4.07	6/21/98	THALASSIONEMA NITZSCHIOIDES	5441.00
WF987	N04	WF98721C	4.07	6/21/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	47833.92
WF987	N04	WF98721C	4.07	6/21/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	16432.56
WF987	N04	WF98721C	4.07	6/21/98	CERATIUM FUSUS	283.14
WF987	N04	WF98721C	4.07	6/21/98	CERATIUM LINEATUM	232.93
WF987	N04	WF98721C	4.07	6/21/98	CERATIUM LONGIPES	16170.39
WF987	N04	WF98721C	4.07	6/21/98	CERATIUM SPP.	753.57
WF987	N04	WF98721C	4.07	6/21/98	CERATIUM TRIPOS	3913.49
WF987	N04	WF98721C	4.07	6/21/98	DINOPHYSIS ACUMINATA	5.48
WF987	N04	WF98721C	4.07	6/21/98	DINOPHYSIS NORVEGICA	NA
WF987	N04	WF98721C	4.07	6/21/98	DISTEPHANUS SPECULUM	7.66
WF987	N04	WF98721C	4.07	6/21/98	GYRODINIUM SP. GROUP 1 5-20UM W 10-20UM L	0.16
WF987	N04	WF98721C	4.07	6/21/98	MESODINIUM RUBRUM	NA
WF987	N04	WF98721C	4.07	6/21/98	PROTOPERIDINIUM BREVIPIES	16.48
WF987	N04	WF98721C	4.07	6/21/98	PROTOPERIDINIUM DEPRESSUM	1119.47
WF987	N04	WF98721C	4.07	6/21/98	PROTOPERIDINIUM SPP.	73.25
WF987	N04	WF98721C	4.07	6/21/98	PROTOPERIDINIUM TROCHOIDIUM	18.35
WF987	N04	WF98721D	1.46	6/21/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	1329.62
WF987	N04	WF98721D	1.46	6/21/98	CERATIUM FUSUS	47345.50
WF987	N04	WF98721D	1.46	6/21/98	CERATIUM LINEATUM	122411.27
WF987	N04	WF98721D	1.46	6/21/98	CERATIUM LONGIPES	157372.54
WF987	N04	WF98721D	1.46	6/21/98	CERATIUM TRIPOS	242606.76
WF987	N04	WF98721D	1.46	6/21/98	CHAETOCEROS COMPRESSUS	172296.84
WF987	N04	WF98721D	1.46	6/21/98	CHAETOCEROS SOCIALIS	52965.97
WF987	N04	WF98721D	1.46	6/21/98	CHAETOCEROS SP. GROUP 2 DIAM 10-30 MICRONS	37998.72

Survey	Sta.	Sample Number	Depth (m)	Sampling Date	Plankton	Estimated Carbon Equivalence (ng Carbon/L)
WF987	N04	WF98721D	1.46	6/21/98	CHAETOCEROS SPP.($<10\mu\text{M}$)	11929.15
WF987	N04	WF98721D	1.46	6/21/98	CRYPTOMONAS SP. GROUP 1 LENGTH $<10\mu\text{M}$	3312.69
WF987	N04	WF98721D	1.46	6/21/98	CYLINDROTHECA CLOSTERIUM	4894.48
WF987	N04	WF98721D	1.46	6/21/98	DINOBRYON SPP.	961.75
WF987	N04	WF98721D	1.46	6/21/98	DINOPHYSIS NORVEGICA	NA
WF987	N04	WF98721D	1.46	6/21/98	EBRIA TRIPARTITA	3900.46
WF987	N04	WF98721D	1.46	6/21/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	20605.77
WF987	N04	WF98721D	1.46	6/21/98	GYMNODINIUM SP. GROUP 2 21-40UM W 21-50UM L	31707.31
WF987	N04	WF98721D	1.46	6/21/98	LEPTOCYLINDRUS DANICUS	16051.13
WF987	N04	WF98721D	1.46	6/21/98	LEPTOCYLINDRUS MINIMUS	278.44
WF987	N04	WF98721D	1.46	6/21/98	PENNATE DIATOM SP. GROUP 2 10-30 MICRONS LENGTH	3147.89
WF987	N04	WF98721D	1.46	6/21/98	PROBOSCIA ALATA	43609.70
WF987	N04	WF98721D	1.46	6/21/98	PROTOPERIDINIUM SP. GROUP 1 10-30W 10-40L	6271.64
WF987	N04	WF98721D	1.46	6/21/98	PSEUDONITZSCHIA DELICATISSIMA	67679.16
WF987	N04	WF98721D	1.46	6/21/98	PYRAMIMONAS SP. GROUP 1 10-20 MICRONS LENGTH	NA
WF987	N04	WF98721D	1.46	6/21/98	RHIZOLENIA FRAGILISSIMA	58457.19
WF987	N04	WF98721D	1.46	6/21/98	RHIZOLENIA SETIGERA	44751.76
WF987	N04	WF98721D	1.46	6/21/98	SCRIPPSIELLA TROCHOIDEA	5626.74
WF987	N04	WF98721D	1.46	6/21/98	SKELETONEMA COSTATUM GREV+CLEVE	150515.05
WF987	N04	WF98721D	1.46	6/21/98	THALASSIONEMA NITZSCHIOIDES	14687.79
WF987	N04	WF98721D	1.46	6/21/98	THALASSIOSIRA SP. GROUP 2 DIAM $>20\mu\text{M}$	25387.61
WF987	N04	WF98721D	1.46	6/21/98	UNID. MICRO-PHYTOFLAG LENGTH $<10\mu\text{M}$	55272.24
WF987	N04	WF98721D	1.46	6/21/98	UNID. MICRO-PHYTOFLAG LENGTH $>10\mu\text{M}$	12096.19
WF987	N04	WF98721D	1.46	6/21/98	ATHECATE DINOFLAGELLATE	NA
WF987	N04	WF98721D	1.46	6/21/98	CERATIUM FUSUS	5566.94
WF987	N04	WF98721D	1.46	6/21/98	CERATIUM LINEATUM	6224.76
WF987	N04	WF98721D	1.46	6/21/98	CERATIUM LONGIPES	23584.40
WF987	N04	WF98721D	1.46	6/21/98	CERATIUM SPP.	2270.06
WF987	N04	WF98721D	1.46	6/21/98	CERATIUM TRIPOS	23339.91
WF987	N04	WF98721D	1.46	6/21/98	DINOPHYSIS ACUMINATA	22.22
WF987	N04	WF98721D	1.46	6/21/98	DINOPHYSIS NORVEGICA	NA
WF987	N04	WF98721D	1.46	6/21/98	DISTEPHANUS SPECULUM	3.03
WF987	N04	WF98721D	1.46	6/21/98	GYRODINIUM SP. GROUP 1 5-20UM W 10-20UM L	0.68
WF987	N04	WF98721D	1.46	6/21/98	PROROCENTRUM MINIMUM	0.32
WF987	N04	WF98721D	1.46	6/21/98	PROTOPERIDINIUM DEPRESSUM	405.32
WF987	N04	WF98721D	1.46	6/21/98	PROTOPERIDINIUM PYRIFORME	NA
WF987	N04	WF98721D	1.46	6/21/98	PROTOPERIDINIUM SPP.	132.60
WF987	N04	WF98721D	1.46	6/21/98	PROTOPERIDINIUM TROCHOIDIUM	129.96
WF987	N04	WF98721D	1.46	6/21/98	THECATE DINOFLAGELLATE SPP.	NA
WF987	N18	WF987248	8.00	6/21/98	AMPHIDINIUM SPP.	334.11
WF987	N18	WF987248	8.00	6/21/98	CENTRIC DIATOM SP. GROUP 1 DIAM $<10\mu\text{M}$	338.68
WF987	N18	WF987248	8.00	6/21/98	CERATAULINA PELAGICA	58276.92
WF987	N18	WF987248	8.00	6/21/98	CERATIUM FUSUS	24119.40
WF987	N18	WF987248	8.00	6/21/98	CERATIUM LINEATUM	9354.07
WF987	N18	WF987248	8.00	6/21/98	CERATIUM LONGIPES	128273.47
WF987	N18	WF987248	8.00	6/21/98	CERATIUM TRIPOS	61796.06
WF987	N18	WF987248	8.00	6/21/98	CHAETOCEROS COMPRESSUS	14628.98
WF987	N18	WF987248	8.00	6/21/98	CHAETOCEROS CONVOLUTUS	NA
WF987	N18	WF987248	8.00	6/21/98	CHAETOCEROS SOCIALIS	1245.53
WF987	N18	WF987248	8.00	6/21/98	CHAETOCEROS SP. GROUP 2 DIAM 10-30 MICRONS	11614.70
WF987	N18	WF987248	8.00	6/21/98	CHAETOCEROS SPP.($<10\mu\text{M}$)	2025.70

Survey	Sta.	Sample Number	Depth (m)	Sampling Date	Plankton	Estimated Carbon Equivalence (ng Carbon/L)
WF987	N18	WF987248	8.00	6/21/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	369.16
WF987	N18	WF987248	8.00	6/21/98	DICTYOCHA SPECULUM	NA
WF987	N18	WF987248	8.00	6/21/98	DINOPHYSIS NORVEGICA	NA
WF987	N18	WF987248	8.00	6/21/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	12246.83
WF987	N18	WF987248	8.00	6/21/98	GYMNODINIUM SP. GROUP 2 21-40UM W 21-50UM L	54919.46
WF987	N18	WF987248	8.00	6/21/98	GYRODINIUM SP. GROUP 2 21-40UM W 21-50UM L	48451.37
WF987	N18	WF987248	8.00	6/21/98	HETEROCAPSA TRIQUETRA	3080.78
WF987	N18	WF987248	8.00	6/21/98	LEPTOCYLINDRUS MINIMUS	85.11
WF987	N18	WF987248	8.00	6/21/98	PENNATE DIATOM SP. GROUP 2 10-30 MICRONS LENGTH	160.39
WF987	N18	WF987248	8.00	6/21/98	PROBOSCIA ALATA	57762.28
WF987	N18	WF987248	8.00	6/21/98	PSEUDONITZSCHIA DELICATISSIMA	853.42
WF987	N18	WF987248	8.00	6/21/98	RHIZOLENIA FRAGILISSIMA	8120.67
WF987	N18	WF987248	8.00	6/21/98	SKELETONEMA COSTATUM GREV+CLEVE	218.22
WF987	N18	WF987248	8.00	6/21/98	THALASSIONEMA NITZSCHIOIDES	748.25
WF987	N18	WF987248	8.00	6/21/98	THALASSIOSIRA SP. GROUP 2 DIAM >20 MICRONS	2155.55
WF987	N18	WF987248	8.00	6/21/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	14757.27
WF987	N18	WF987248	8.00	6/21/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	4108.14
WF987	N18	WF987248	8.00	6/21/98	ATHECATE DINOFLAGELLATE	NA
WF987	N18	WF987248	8.00	6/21/98	CERATIUM FUSUS	138.32
WF987	N18	WF987248	8.00	6/21/98	CERATIUM LINEATUM	73.63
WF987	N18	WF987248	8.00	6/21/98	CERATIUM LONGIPES	4489.32
WF987	N18	WF987248	8.00	6/21/98	CERATIUM SPP.	142.92
WF987	N18	WF987248	8.00	6/21/98	CERATIUM TRIPOS	3419.18
WF987	N18	WF987248	8.00	6/21/98	DINOPHYSIS ACUMINATA	1.04
WF987	N18	WF987248	8.00	6/21/98	DINOPHYSIS NORVEGICA	NA
WF987	N18	WF987248	8.00	6/21/98	DISTEPHANUS SPECULUM	2.64
WF987	N18	WF987248	8.00	6/21/98	GYRODINIUM SP. GROUP 1 5-20UM W 10-20UM L	0.30
WF987	N18	WF987248	8.00	6/21/98	PROTOPERIDINIUM BREVIPIES	27.35
WF987	N18	WF987248	8.00	6/21/98	PROTOPERIDINIUM DEPRESSUM	1326.95
WF987	N18	WF987248	8.00	6/21/98	PROTOPERIDINIUM SPP.	43.41
WF987	N18	WF987248	8.00	6/21/98	PROTOPERIDINIUM TROCHOIDIUM	19.34
WF987	N18	WF98724A	1.65	6/21/98	AMPHIDIUM SPP.	334.11
WF987	N18	WF98724A	1.65	6/21/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	406.41
WF987	N18	WF98724A	1.65	6/21/98	CERATAULINA PELAGICA	48571.09
WF987	N18	WF98724A	1.65	6/21/98	CERATIUM FUSUS	9647.76
WF987	N18	WF98724A	1.65	6/21/98	CERATIUM LINEATUM	3118.02
WF987	N18	WF98724A	1.65	6/21/98	CERATIUM LONGIPES	16034.18
WF987	N18	WF98724A	1.65	6/21/98	CERATIUM TRIPOS	24721.98
WF987	N18	WF98724A	1.65	6/21/98	CHAETOCEROS COMPRESSUS	26335.95
WF987	N18	WF98724A	1.65	6/21/98	CHAETOCEROS SEPTENTRIONALIS	NA
WF987	N18	WF98724A	1.65	6/21/98	CHAETOCEROS SOCIALIS	7264.56
WF987	N18	WF98724A	1.65	6/21/98	CHAETOCEROS SP. GROUP 2 DIAM 10-30 MICRONS	17145.51
WF987	N18	WF98724A	1.65	6/21/98	CHAETOCEROS SPP.(<10UM)	2700.94
WF987	N18	WF98724A	1.65	6/21/98	CHAETOCEROS SUBTILIS	485.42
WF987	N18	WF98724A	1.65	6/21/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	1265.70
WF987	N18	WF98724A	1.65	6/21/98	CYLINDROTHECA CLOSTERIUM	748.13
WF987	N18	WF98724A	1.65	6/21/98	DINOPHYSIS NORVEGICA	NA
WF987	N18	WF98724A	1.65	6/21/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	26243.20
WF987	N18	WF98724A	1.65	6/21/98	GYMNODINIUM SP. GROUP 2 21-40UM W 21-50UM L	80763.91
WF987	N18	WF98724A	1.65	6/21/98	HETEROCAPSA ROTUNDATA	344.30
WF987	N18	WF98724A	1.65	6/21/98	LEPTOCYLINDRUS DANICUS	3865.49

Survey	Sta.	Sample Number	Depth (m)	Sampling Date	Plankton	Estimated Carbon Equivalence (ng Carbon/L)
WF987	N18	WF98724A	1.65	6/21/98	LEPTOCYLINDRUS MINIMUS	113.48
WF987	N18	WF98724A	1.65	6/21/98	PENNATE DIATOM SP. GROUP 2 10-30 MICRONS LENGTH	534.55
WF987	N18	WF98724A	1.65	6/21/98	PENNATE DIATOM SP. GROUP 3 31-60 MICRONS LENGTH	152.87
WF987	N18	WF98724A	1.65	6/21/98	PROBOSCIA ALATA	355460.18
WF987	N18	WF98724A	1.65	6/21/98	PSEUDONITZSCHIA DELICATISSIMA	1911.93
WF987	N18	WF98724A	1.65	6/21/98	RHIZOLENIA DELICATULA	737.65
WF987	N18	WF98724A	1.65	6/21/98	RHIZOLENIA FRAGILISSIMA	27072.80
WF987	N18	WF98724A	1.65	6/21/98	SKELETONEMA COSTATUM GREV+CLEVE	1870.45
WF987	N18	WF98724A	1.65	6/21/98	THALASSIONEMA NITZSCHIOIDES	1224.40
WF987	N18	WF98724A	1.65	6/21/98	THALASSIOSIRA SP. GROUP 2 DIAM >20 MICRONS	8622.21
WF987	N18	WF98724A	1.65	6/21/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	31889.28
WF987	N18	WF98724A	1.65	6/21/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	10270.35
WF987	N18	WF98724A	1.65	6/21/98	ATHECATE DINOFLAGELLATE	NA
WF987	N18	WF98724A	1.65	6/21/98	CERATIUM FUSUS	800.01
WF987	N18	WF98724A	1.65	6/21/98	CERATIUM LINEATUM	477.33
WF987	N18	WF98724A	1.65	6/21/98	CERATIUM LONGIPES	4397.86
WF987	N18	WF98724A	1.65	6/21/98	CERATIUM SPP.	243.22
WF987	N18	WF98724A	1.65	6/21/98	CERATIUM TRIPOS	4632.20
WF987	N18	WF98724A	1.65	6/21/98	DINOPHYSIS ACUMINATA	1.47
WF987	N18	WF98724A	1.65	6/21/98	DINOPHYSIS NORVEGICA	NA
WF987	N18	WF98724A	1.65	6/21/98	DISTEPHANUS SPECULUM	1.25
WF987	N18	WF98724A	1.65	6/21/98	GYRODINIUM SP. GROUP 1 5-20UM W 10-20UM L	0.14
WF987	N18	WF98724A	1.65	6/21/98	MESODINIUM RUBRUM	NA
WF987	N18	WF98724A	1.65	6/21/98	PROTOPERIDINIUM BREVIPES	1.85
WF987	N18	WF98724A	1.65	6/21/98	PROTOPERIDINIUM DEPRESSUM	250.91
WF987	N18	WF98724A	1.65	6/21/98	PROTOPERIDINIUM PALLIDUM	41.65
WF987	N18	WF98724A	1.65	6/21/98	PROTOPERIDINIUM SPP.	16.42
WF987	N18	WF98724A	1.65	6/21/98	PROTOPERIDINIUM TROCHOIDIUM	16.46
WN988	N04	WN988088	13.86	7/12/98	CERATIUM LINEATUM	14724.00
WN988	N04	WN988088	13.86	7/12/98	CERATIUM TRIPOS	467644.34
WN988	N04	WN988088	13.86	7/12/98	CHAETOCEROS SP. GROUP 2 DIAM 10-30 MICRONS	13058.86
WN988	N04	WN988088	13.86	7/12/98	CORETHRON CRIOPHILUM	23499.09
WN988	N04	WN988088	13.86	7/12/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	1197.28
WN988	N04	WN988088	13.86	7/12/98	CRYPTOMONAS SP. GROUP 2 LENGTH >10 MICRONS	1281.48
WN988	N04	WN988088	13.86	7/12/98	CYLINDROTHECA CLOSTERIUM	1177.61
WN988	N04	WN988088	13.86	7/12/98	DICTYOCHEA SPECULUM	NA
WN988	N04	WN988088	13.86	7/12/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	43029.25
WN988	N04	WN988088	13.86	7/12/98	GYMNODINIUM SP. GROUP 2 21-40UM W 21-50UM L	61021.62
WN988	N04	WN988088	13.86	7/12/98	PENNATE DIATOM SP. GROUP 2 10-30 MICRONS LENGTH	1011.30
WN988	N04	WN988088	13.86	7/12/98	PENNATE DIATOM SP. GROUP 3 31-60 MICRONS LENGTH	721.89
WN988	N04	WN988088	13.86	7/12/98	PROBOSCIA ALATA	1867400.16
WN988	N04	WN988088	13.86	7/12/98	PSEUDONITZSCHIA DELICATISSIMA	1291.65
WN988	N04	WN988088	13.86	7/12/98	PSEUDONITZSCHIA PUNGENS	773.63
WN988	N04	WN988088	13.86	7/12/98	PYRAMIMONAS SP. GROUP 1 10-20 MICRONS LENGTH	NA
WN988	N04	WN988088	13.86	7/12/98	RHIZOLENIA FRAGILISSIMA	5113.75
WN988	N04	WN988088	13.86	7/12/98	SKELETONEMA COSTATUM GREV+CLEVE	441.63
WN988	N04	WN988088	13.86	7/12/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	202814.44

Survey	Sta.	Sample Number	Depth (m)	Sampling Date	Plankton	Estimated Carbon Equivalence (ng Carbon/L)
WN988	N04	WN988088	13.86	7/12/98	CERATIUM FUSUS	2284.65
WN988	N04	WN988088	13.86	7/12/98	CERATIUM LINEATUM	237.52
WN988	N04	WN988088	13.86	7/12/98	CERATIUM LONGIPES	531.05
WN988	N04	WN988088	13.86	7/12/98	CERATIUM SPP.	841.92
WN988	N04	WN988088	13.86	7/12/98	CERATIUM TRIPOS	21124.65
WN988	N04	WN988088	13.86	7/12/98	DINOPHYSIS ACUMINATA	0.51
WN988	N04	WN988088	13.86	7/12/98	DINOPHYSIS NORVEGICA	NA
WN988	N04	WN988088	13.86	7/12/98	DISTEPHANUS SPECULUM	12.97
WN988	N04	WN988088	13.86	7/12/98	GYRODINIUM SP. GROUP 2 21-40UM W 21-50UM L	5.35
WN988	N04	WN988088	13.86	7/12/98	PROTOPERIDIUM BREVIPES	30.69
WN988	N04	WN988088	13.86	7/12/98	PROTOPERIDIUM DEPRESSUM	1563.39
WN988	N04	WN988088	13.86	7/12/98	PROTOPERIDIUM PYRIFORME	NA
WN988	N04	WN988088	13.86	7/12/98	PROTOPERIDIUM SPP.	85.25
WN988	N04	WN988088	13.86	7/12/98	PROTOPERIDIUM TROCHOIDIUM	45.57
WN988	N04	WN988088	13.86	7/12/98	THECATE DINOFLAGELLATE SPP.	NA
WN988	N04	WN98808A	1.52	7/12/98	CALYCOMONAS WULFFII	4326.02
WN988	N04	WN98808A	1.52	7/12/98	CERATAULINA PELAGICA	125925.05
WN988	N04	WN98808A	1.52	7/12/98	CHAETOCEROS SEPTENTRIONALIS	NA
WN988	N04	WN98808A	1.52	7/12/98	CHAETOCEROS SP. GROUP 2 DIAM 10-30 MICRONS	51211.21
WN988	N04	WN98808A	1.52	7/12/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	4108.31
WN988	N04	WN98808A	1.52	7/12/98	CYLINDROTHECA CLOSTERIUM	4618.10
WN988	N04	WN98808A	1.52	7/12/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	94106.19
WN988	N04	WN98808A	1.52	7/12/98	GYMNODINIUM SP. GROUP 2 21-40UM W 21-50UM L	179475.36
WN988	N04	WN98808A	1.52	7/12/98	GYRODINIUM SP. GROUP 1 5-20UM W 10-20UM L	16225.21
WN988	N04	WN98808A	1.52	7/12/98	GYRODINIUM SP. GROUP 2 21-40UM W 21-50UM L	59825.12
WN988	N04	WN98808A	1.52	7/12/98	LEPTOCYLINDRUS MINIMUS	76966.28
WN988	N04	WN98808A	1.52	7/12/98	PROBOSCIA ALATA	781683.26
WN988	N04	WN98808A	1.52	7/12/98	PROROCENTRUM MINIMUM	2324.30
WN988	N04	WN98808A	1.52	7/12/98	PSEUDONITZSCHIA DELICATISSIMA	6964.80
WN988	N04	WN98808A	1.52	7/12/98	PYRAMIMONAS SP. GROUP 1 10-20 MICRONS LENGTH	NA
WN988	N04	WN98808A	1.52	7/12/98	RHIZOLENIA DELICATULA	17075.18
WN988	N04	WN98808A	1.52	7/12/98	RHIZOLENIA FRAGILISSIMA	807170.51
WN988	N04	WN98808A	1.52	7/12/98	SCRIPPSIELLA TROCHOIDEA	21263.61
WN988	N04	WN98808A	1.52	7/12/98	SKELETONEMA COSTATUM GREV+CLEVE	36081.24
WN988	N04	WN98808A	1.52	7/12/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	428507.80
WN988	N04	WN98808A	1.52	7/12/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	30478.96
WN988	N04	WN98808A	1.52	7/12/98	ALEXANDRIUM TAMARENSE	2.31
WN988	N04	WN98808A	1.52	7/12/98	ATHECATE DINOFLAGELLATE	NA
WN988	N04	WN98808A	1.52	7/12/98	CERATIUM FUSUS	891.28
WN988	N04	WN98808A	1.52	7/12/98	CERATIUM LINEATUM	248.61
WN988	N04	WN98808A	1.52	7/12/98	CERATIUM LONGIPES	98.34
WN988	N04	WN98808A	1.52	7/12/98	CERATIUM MACROCEROS	40.41
WN988	N04	WN98808A	1.52	7/12/98	CERATIUM SPP.	129.93
WN988	N04	WN98808A	1.52	7/12/98	CERATIUM TRIPOS	3222.07
WN988	N04	WN98808A	1.52	7/12/98	DINOPHYSIS ACUMINATA	0.47
WN988	N04	WN98808A	1.52	7/12/98	DINOPHYSIS NORVEGICA	NA
WN988	N04	WN98808A	1.52	7/12/98	GYMNODINIUM SPP.	2.66
WN988	N04	WN98808A	1.52	7/12/98	PROROCENTRUM MINIMUM	1.54
WN988	N04	WN98808A	1.52	7/12/98	PROTOPERIDIUM SPP.	31.57
WN988	N04	WN98808A	1.52	7/12/98	PROTOPERIDIUM TROCHOIDIUM	94.94
WN988	N04	WN98808A	1.52	7/12/98	THECATE DINOFLAGELLATE SPP.	NA
WN988	N18	WN9880C5	8.08	7/12/98	ASTERIONELLOPSIS GLACIALIS	1103.42

Survey	Sta.	Sample Number	Depth (m)	Sampling Date	Plankton	Estimated Carbon Equivalence (ng Carbon/L)
WN988	N18	WN9880C5	8.08	7/12/98	CALYCOMONAS OVALIS	233.13
WN988	N18	WN9880C5	8.08	7/12/98	CALYCOMONAS WULFFII	1138.43
WN988	N18	WN9880C5	8.08	7/12/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	2763.97
WN988	N18	WN9880C5	8.08	7/12/98	CERATAULINA PELAGICA	53967.88
WN988	N18	WN9880C5	8.08	7/12/98	CERATIUM FUSUS	44665.56
WN988	N18	WN9880C5	8.08	7/12/98	CERATIUM TRIPOS	228907.27
WN988	N18	WN9880C5	8.08	7/12/98	CHAETOCEROS SEPTENTRIONALIS	NA
WN988	N18	WN9880C5	8.08	7/12/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	1173.80
WN988	N18	WN9880C5	8.08	7/12/98	CRYPTOMONAS SP. GROUP 2 LENGTH >10 MICRONS	1256.35
WN988	N18	WN9880C5	8.08	7/12/98	CYLINDROTHECA CLOSTERIUM	18499.03
WN988	N18	WN9880C5	8.08	7/12/98	DINOPHYSIS NORVEGICA	NA
WN988	N18	WN9880C5	8.08	7/12/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	58410.74
WN988	N18	WN9880C5	8.08	7/12/98	GYRODINIUM SP. GROUP 1 5-20UM W 10-20UM L	3245.04
WN988	N18	WN9880C5	8.08	7/12/98	LEPTOCYLINDRUS DANICUS	217502.42
WN988	N18	WN9880C5	8.08	7/12/98	LEPTOCYLINDRUS MINIMUS	31522.02
WN988	N18	WN9880C5	8.08	7/12/98	PENNATE DIATOM SP. GROUP 2 10-30 MICRONS LENGTH	2974.42
WN988	N18	WN9880C5	8.08	7/12/98	PENNATE DIATOM SP. GROUP 3 31-60 MICRONS LENGTH	1415.47
WN988	N18	WN9880C5	8.08	7/12/98	PROBOSCIA ALATA	329129.79
WN988	N18	WN9880C5	8.08	7/12/98	PSEUDONITZSCHIA DELICATISSIMA	1899.49
WN988	N18	WN9880C5	8.08	7/12/98	PYRAMIMONAS SP. GROUP 1 10-20 MICRONS LENGTH	NA
WN988	N18	WN9880C5	8.08	7/12/98	RHIZOLENIA DELICATULA	23905.26
WN988	N18	WN9880C5	8.08	7/12/98	RHIZOLENIA FRAGILISSIMA	55148.30
WN988	N18	WN9880C5	8.08	7/12/98	SCRIPPSIELLA TROCHOIDEA	10616.49
WN988	N18	WN9880C5	8.08	7/12/98	SKELETONEMA COSTATUM GREV+CLEVE	46761.29
WN988	N18	WN9880C5	8.08	7/12/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	183736.09
WN988	N18	WN9880C5	8.08	7/12/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	49528.30
WN988	N18	WN9880C5	8.08	7/12/98	ALEXANDRIUM TAMARENSE	0.39
WN988	N18	WN9880C5	8.08	7/12/98	CERATIUM FUSUS	3800.05
WN988	N18	WN9880C5	8.08	7/12/98	CERATIUM LINEATUM	290.68
WN988	N18	WN9880C5	8.08	7/12/98	CERATIUM LONGIPES	280.27
WN988	N18	WN9880C5	8.08	7/12/98	CERATIUM MACROCEROS	44.68
WN988	N18	WN9880C5	8.08	7/12/98	CERATIUM SPP.	236.98
WN988	N18	WN9880C5	8.08	7/12/98	CERATIUM TRIPOS	13309.80
WN988	N18	WN9880C5	8.08	7/12/98	DINOPHYSIS ACUMINATA	2.15
WN988	N18	WN9880C5	8.08	7/12/98	DINOPHYSIS NORVEGICA	NA
WN988	N18	WN9880C5	8.08	7/12/98	GONYAULAX SPINIFERA	4.05
WN988	N18	WN9880C5	8.08	7/12/98	PROTOPERIDINIUM DEPRESSUM	1100.16
WN988	N18	WN9880C5	8.08	7/12/98	PROTOPERIDINIUM PYRIFORME	NA
WN988	N18	WN9880C5	8.08	7/12/98	PROTOPERIDINIUM SPP.	71.99
WN988	N18	WN9880C5	8.08	7/12/98	PROTOPERIDINIUM TROCHOIDIUM	80.17
WN988	N18	WN9880C7	1.58	7/12/98	CALYCOMONAS OVALIS	727.36
WN988	N18	WN9880C7	1.58	7/12/98	CALYCOMONAS WULFFII	3551.89
WN988	N18	WN9880C7	1.58	7/12/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	3658.49
WN988	N18	WN9880C7	1.58	7/12/98	CERATAULINA PELAGICA	74835.46
WN988	N18	WN9880C7	1.58	7/12/98	CHAETOCEROS SPP.(<10UM)	3907.55
WN988	N18	WN9880C7	1.58	7/12/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	4679.56
WN988	N18	WN9880C7	1.58	7/12/98	CYLINDROTHECA CLOSTERIUM	14429.25
WN988	N18	WN9880C7	1.58	7/12/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	80996.23
WN988	N18	WN9880C7	1.58	7/12/98	GYRODINIUM SP. GROUP 1 5-20UM W 10-20UM L	10124.53
WN988	N18	WN9880C7	1.58	7/12/98	GYRODINIUM SP. GROUP 2 21-40UM W 21-50UM L	124436.25

Survey	Sta.	Sample Number	Depth (m)	Sampling Date	Plankton	Estimated Carbon Equivalence (ng Carbon/L)
WN988	N18	WN9880C7	1.58	7/12/98	LEPTOCYLINDRUS DANICUS	91626.34
WN988	N18	WN9880C7	1.58	7/12/98	LEPTOCYLINDRUS MINIMUS	83869.60
WN988	N18	WN9880C7	1.58	7/12/98	PENNATE DIATOM SP. GROUP 2 10-30 MICRONS LENGTH	1031.13
WN988	N18	WN9880C7	1.58	7/12/98	PENNATE DIATOM SP. GROUP 3 31-60 MICRONS LENGTH	4416.27
WN988	N18	WN9880C7	1.58	7/12/98	PROBOSCIA ALATA	85573.75
WN988	N18	WN9880C7	1.58	7/12/98	PROROCENTRUM MINIMUM	4841.51
WN988	N18	WN9880C7	1.58	7/12/98	PROTOPERIDINIUM SP. GROUP 2 31-75W 41-80L	86835.45
WN988	N18	WN9880C7	1.58	7/12/98	PSEUDONITZSCHIA DELICATISSIMA	1316.98
WN988	N18	WN9880C7	1.58	7/12/98	PYRAMIMONAS SP. GROUP 1 10-20 MICRONS LENGTH	NA
WN988	N18	WN9880C7	1.58	7/12/98	RHIZOLENIA FRAGILISSIMA	203346.81
WN988	N18	WN9880C7	1.58	7/12/98	SKELETONEMA COSTATUM GREV+CLEVE	32721.36
WN988	N18	WN9880C7	1.58	7/12/98	THALASSIONEMA NITZSCHIOIDES	3275.15
WN988	N18	WN9880C7	1.58	7/12/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	451537.74
WN988	N18	WN9880C7	1.58	7/12/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	15849.06
WN988	N18	WN9880C7	1.58	7/12/98	ALEXANDRIUM TAMARENSE	0.80
WN988	N18	WN9880C7	1.58	7/12/98	ATHECATE DINOFLAGELLATE	NA
WN988	N18	WN9880C7	1.58	7/12/98	CERATIUM FUSUS	1723.10
WN988	N18	WN9880C7	1.58	7/12/98	CERATIUM LINEATUM	188.94
WN988	N18	WN9880C7	1.58	7/12/98	CERATIUM LONGIPES	268.47
WN988	N18	WN9880C7	1.58	7/12/98	CERATIUM MACROCEROS	61.14
WN988	N18	WN9880C7	1.58	7/12/98	CERATIUM SPP.	81.07
WN988	N18	WN9880C7	1.58	7/12/98	CERATIUM TRIPOS	5164.41
WN988	N18	WN9880C7	1.58	7/12/98	DINOPHYSIS NORVEGICA	NA
WN988	N18	WN9880C7	1.58	7/12/98	GONYAULAX SPINIFERA	2.77
WN988	N18	WN9880C7	1.58	7/12/98	GYMNODINIUM SPP.	19.35
WN988	N18	WN9880C7	1.58	7/12/98	GYRODINIUM SP. GROUP 2 21-40UM W 21-50UM L	7.73
WN988	N18	WN9880C7	1.58	7/12/98	KATODINIUM ROTUNDATUM	0.08
WN988	N18	WN9880C7	1.58	7/12/98	PROROCENTRUM MINIMUM	0.60
WN988	N18	WN9880C7	1.58	7/12/98	PROTOPERIDINIUM DEPRESSUM	501.83
WN988	N18	WN9880C7	1.58	7/12/98	PROTOPERIDINIUM DIVERGENS	85.90
WN988	N18	WN9880C7	1.58	7/12/98	PROTOPERIDINIUM SPP.	127.24
WN988	N18	WN9880C7	1.58	7/12/98	PROTOPERIDINIUM TROCHOIDIUM	109.70
WN988	N18	WN9880C7	1.58	7/12/98	THECATE DINOFLAGELLATE SPP.	NA
WN989	N04	WN989009	18.64	7/22/98	CENTRIC DIATOM SP. GROUP 2 DIAM 10-30 MICRONS	3453.88
WN989	N04	WN989009	18.64	7/22/98	CERATIUM FUSUS	116113.74
WN989	N04	WN989009	18.64	7/22/98	CERATIUM TRIPOS	366198.89
WN989	N04	WN989009	18.64	7/22/98	COSCIDINUS SP. GROUP 2 DIAM 40-100 MICRONS	15710.32
WN989	N04	WN989009	18.64	7/22/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	1173.80
WN989	N04	WN989009	18.64	7/22/98	CRYPTOMONAS SP. GROUP 2 LENGTH >10 MICRONS	2512.70
WN989	N04	WN989009	18.64	7/22/98	CYLINDROTHECA CLOSTERIUM	2308.72
WN989	N04	WN989009	18.64	7/22/98	DICTYOCHA SPECULUM	NA
WN989	N04	WN989009	18.64	7/22/98	DINOPHYSIS NORVEGICA	NA
WN989	N04	WN989009	18.64	7/22/98	GUINARDIA FLACCIDA	27661.60
WN989	N04	WN989009	18.64	7/22/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	412120.22
WN989	N04	WN989009	18.64	7/22/98	GYRODINIUM SP. GROUP 1 5-20UM W 10-20UM L	6490.08
WN989	N04	WN989009	18.64	7/22/98	GYRODINIUM SP. GROUP 2 21-40UM W 21-50UM L	29908.25
WN989	N04	WN989009	18.64	7/22/98	GYRODINIUM SPIRALE	26326.16
WN989	N04	WN989009	18.64	7/22/98	HETEROCAPSA TRIQUETRA	1141.03
WN989	N04	WN989009	18.64	7/22/98	LEPTOCYLINDRUS DANICUS	5505.60
WN989	N04	WN989009	18.64	7/22/98	LEPTOCYLINDRUS MINIMUS	682.88

Survey	Sta.	Sample Number	Depth (m)	Sampling Date	Plankton	Estimated Carbon Equivalence (ng Carbon/L)
WN989	N04	WN989009	18.64	7/22/98	PENNATE DIATOM SP. GROUP 2 10-30 MICRONS LENGTH	197.98
WN989	N04	WN989009	18.64	7/22/98	PLEUROSIGMA SPP.	2540.36
WN989	N04	WN989009	18.64	7/22/98	PROBOSCIA ALATA	304401.22
WN989	N04	WN989009	18.64	7/22/98	PROTOPERIDINIUM DEPRESSUM	145671.22
WN989	N04	WN989009	18.64	7/22/98	PROTOPERIDINIUM SP. GROUP 2 31-75W 41-80L	33393.44
WN989	N04	WN989009	18.64	7/22/98	PSEUDONITZSCHIA DELICATISSIMA	1327.54
WN989	N04	WN989009	18.64	7/22/98	PSEUDONITZSCHIA PUNGENS	2881.74
WN989	N04	WN989009	18.64	7/22/98	PYRAMIMONAS SP. GROUP 1 10-20 MICRONS LENGTH	NA
WN989	N04	WN989009	18.64	7/22/98	RHIZOLENIA DELICATULA	6146.18
WN989	N04	WN989009	18.64	7/22/98	RHIZOLENIA HEBETATA F. SEMISPINA	1679.09
WN989	N04	WN989009	18.64	7/22/98	SCRIPPSIELLA TROCHOIDEA	4245.98
WN989	N04	WN989009	18.64	7/22/98	SKELETONEMA COSTATUM GREV+CLEVE	230.89
WN989	N04	WN989009	18.64	7/22/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	229670.11
WN989	N04	WN989009	18.64	7/22/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	15239.48
WN989	N04	WN989009	18.64	7/22/98	ALEXANDRIUM TAMARENSE	0.23
WN989	N04	WN989009	18.64	7/22/98	ATHECATE DINOFLAGELLATE	NA
WN989	N04	WN989009	18.64	7/22/98	CERATIUM FUSUS	6079.37
WN989	N04	WN989009	18.64	7/22/98	CERATIUM LINEATUM	1009.73
WN989	N04	WN989009	18.64	7/22/98	CERATIUM LONGIPES	259.62
WN989	N04	WN989009	18.64	7/22/98	CERATIUM SPP.	297.27
WN989	N04	WN989009	18.64	7/22/98	CERATIUM TRIPOS	19380.94
WN989	N04	WN989009	18.64	7/22/98	DINOPHYSIS NORVEGICA	NA
WN989	N04	WN989009	18.64	7/22/98	DISTEPHANUS SPECULUM	35.93
WN989	N04	WN989009	18.64	7/22/98	GYMNODINIUM SPP. (30UM)	NA
WN989	N04	WN989009	18.64	7/22/98	GYRODINIUM SP. GROUP 2 21-40UM W 21-50UM L	2.18
WN989	N04	WN989009	18.64	7/22/98	PROROCENTRUM MICANS	0.68
WN989	N04	WN989009	18.64	7/22/98	PROTOPERIDINIUM BREVIPIES	46.89
WN989	N04	WN989009	18.64	7/22/98	PROTOPERIDINIUM DEPRESSUM	2123.12
WN989	N04	WN989009	18.64	7/22/98	PROTOPERIDINIUM DIVERGENS	181.71
WN989	N04	WN989009	18.64	7/22/98	PROTOPERIDINIUM PENTAGONUM	367.66
WN989	N04	WN989009	18.64	7/22/98	PROTOPERIDINIUM SP. GROUP 1 10-30W 10-40L	134.51
WN989	N04	WN989009	18.64	7/22/98	PROTOPERIDINIUM SP. GROUP 2 31-75W 41-80L	693.55
WN989	N04	WN989009	18.64	7/22/98	PROTOPERIDINIUM TROCHOIDIUM	210.41
WN989	N04	WN989009	18.64	7/22/98	THECATE DINOFLAGELLATE SPP.	NA
WN989	N04	WN98900B	0.95	7/22/98	CALYCOMONAS WULFFII	1366.11
WN989	N04	WN98900B	0.95	7/22/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	1507.62
WN989	N04	WN98900B	0.95	7/22/98	CERATAULINA PELAGICA	197853.73
WN989	N04	WN98900B	0.95	7/22/98	CERATIUM FUSUS	44659.13
WN989	N04	WN98900B	0.95	7/22/98	CERATIUM MACROCEROS	44366.60
WN989	N04	WN98900B	0.95	7/22/98	CERATIUM TRIPOS	114437.15
WN989	N04	WN98900B	0.95	7/22/98	CHAETOCEROS SP. GROUP 2 DIAM 10-30 MICRONS	5120.38
WN989	N04	WN98900B	0.95	7/22/98	CHOANOFAGELLATE SPP.	616.53
WN989	N04	WN98900B	0.95	7/22/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	1565.07
WN989	N04	WN98900B	0.95	7/22/98	CYLINDROTHECA CLOSTERIUM	4617.43
WN989	N04	WN98900B	0.95	7/22/98	EBRIA TRIPARTITA	7358.31
WN989	N04	WN98900B	0.95	7/22/98	EUTREPTIA/EUTREPTIELLA SPP.	NA
WN989	N04	WN98900B	0.95	7/22/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	64900.82
WN989	N04	WN98900B	0.95	7/22/98	GYMNODINIUM SP. GROUP 2 21-40UM W 21-50UM L	149541.26
WN989	N04	WN98900B	0.95	7/22/98	GYRODINIUM SP. GROUP 2 21-40UM W 21-50UM L	59816.50
WN989	N04	WN98900B	0.95	7/22/98	GYRODINIUM SPIRALE	131630.79
WN989	N04	WN98900B	0.95	7/22/98	LEPTOCYLINDRUS DANICUS	957973.97

Survey	Sta.	Sample Number	Depth (m)	Sampling Date	Plankton	Estimated Carbon Equivalence (ng Carbon/L)
WN989	N04	WN98900B	0.95	7/22/98	LEPTOCYLINDRUS MINIMUS	22850.18
WN989	N04	WN98900B	0.95	7/22/98	PROBOSCIA ALATA	246811.80
WN989	N04	WN98900B	0.95	7/22/98	PROROCENTRUM MINIMUM	2323.96
WN989	N04	WN98900B	0.95	7/22/98	PSEUDONITZSCHIA DELICATISSIMA	2528.64
WN989	N04	WN98900B	0.95	7/22/98	PYRAMIMONAS SP. GROUP 1 10-20 MICRONS LENGTH	NA
WN989	N04	WN98900B	0.95	7/22/98	SCRIPPSIELLA TROCHOIDEA	21263.61
WN989	N04	WN98900B	0.95	7/22/98	SKELETONEMA COSTATUM GREV+CLEVE	1731.65
WN989	N04	WN98900B	0.95	7/22/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	332864.36
WN989	N04	WN98900B	0.95	7/22/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	3809.87
WN989	N04	WN98900B	0.95	7/22/98	ATHECATE DINOFLAGELLATE	NA
WN989	N04	WN98900B	0.95	7/22/98	CERATIUM FUSUS	2233.76
WN989	N04	WN98900B	0.95	7/22/98	CERATIUM LINEATUM	219.92
WN989	N04	WN98900B	0.95	7/22/98	CERATIUM MACROCEROS	29.39
WN989	N04	WN98900B	0.95	7/22/98	CERATIUM SPP.	25.99
WN989	N04	WN98900B	0.95	7/22/98	CERATIUM TRIPOS	2198.59
WN989	N04	WN98900B	0.95	7/22/98	DINOPHYSIS NORVEGICA	NA
WN989	N04	WN98900B	0.95	7/22/98	DISTEPHANUS SPECULUM	2.40
WN989	N04	WN98900B	0.95	7/22/98	GYMNODINIUM SPP. (30UM)	NA
WN989	N04	WN98900B	0.95	7/22/98	PROROCENTRUM MICANS	9.27
WN989	N04	WN98900B	0.95	7/22/98	PROROCENTRUM MINIMUM	0.58
WN989	N04	WN98900B	0.95	7/22/98	PROTOPERIDINIUM BREVIPEES	15.98
WN989	N04	WN98900B	0.95	7/22/98	PROTOPERIDINIUM SP. GROUP 1 10-30W 10-40L	23.51
WN989	N04	WN98900B	0.95	7/22/98	PROTOPERIDINIUM SP. GROUP 2 31-75W 41-80L	622.20
WN989	N04	WN98900B	0.95	7/22/98	PROTOPERIDINIUM TROCHOIDIUM	189.87
WN989	N04	WN98900B	0.95	7/22/98	THECATE DINOFLAGELLATE SPP.	NA
WN989	N18	WN989036	16.20	7/22/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	4261.54
WN989	N18	WN989036	16.20	7/22/98	CERATAULINA PELAGICA	15252.72
WN989	N18	WN989036	16.20	7/22/98	CERATIUM FUSUS	85209.62
WN989	N18	WN989036	16.20	7/22/98	CERATIUM LINEATUM	12239.36
WN989	N18	WN989036	16.20	7/22/98	CERATIUM LONGIPES	157349.88
WN989	N18	WN989036	16.20	7/22/98	CERATIUM TRIPOS	97042.70
WN989	N18	WN989036	16.20	7/22/98	CHAETOCEROS COMPRESSUS	1640.92
WN989	N18	WN989036	16.20	7/22/98	CHAETOCEROS SEPTENTRIONALIS	NA
WN989	N18	WN989036	16.20	7/22/98	CHAETOCEROS SP. GROUP 2 DIAM 10-30 MICRONS	1085.52
WN989	N18	WN989036	16.20	7/22/98	CORETHRON CRIOPHILUM	9766.84
WN989	N18	WN989036	16.20	7/22/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	829.49
WN989	N18	WN989036	16.20	7/22/98	CYLINDROTHECA CLOSTERIUM	2936.69
WN989	N18	WN989036	16.20	7/22/98	DICTYOCHA SPECULUM	NA
WN989	N18	WN989036	16.20	7/22/98	DINOPHYSIS NORVEGICA	NA
WN989	N18	WN989036	16.20	7/22/98	EUTREPTIA/EUTREPTIELLA SPP.	NA
WN989	N18	WN989036	16.20	7/22/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	99752.56
WN989	N18	WN989036	16.20	7/22/98	GYMNODINIUM SP. GROUP 2 21-40UM W 21-50UM L	50724.40
WN989	N18	WN989036	16.20	7/22/98	GYRODINIUM SP. GROUP 2 21-40UM W 21-50UM L	19021.65
WN989	N18	WN989036	16.20	7/22/98	HETEROCAPSA ROTUNDATA	67.59
WN989	N18	WN989036	16.20	7/22/98	HETEROCAPSA TRIQUETRA	1209.49
WN989	N18	WN989036	16.20	7/22/98	LEPTOCYLINDRUS DANICUS	40851.53
WN989	N18	WN989036	16.20	7/22/98	LEPTOCYLINDRUS MINIMUS	723.85
WN989	N18	WN989036	16.20	7/22/98	PENNATE DIATOM SP. GROUP 2 10-30 MICRONS LENGTH	104.93
WN989	N18	WN989036	16.20	7/22/98	PROBOSCIA ALATA	235458.46
WN989	N18	WN989036	16.20	7/22/98	PROROCENTRUM MINIMUM	492.68
WN989	N18	WN989036	16.20	7/22/98	PROTOPERIDINIUM BIPES	1668.79

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WN989	N18	WN989036	16.20	7/22/98	PSEUDONITZSCHIA DELICATISSIMA	1273.17
WN989	N18	WN989036	16.20	7/22/98	PSEUDONITZSCHIA PUNGENS	482.31
WN989	N18	WN989036	16.20	7/22/98	RHIZOLENIA FRAGILISSIMA	21254.10
WN989	N18	WN989036	16.20	7/22/98	RHIZOLENIA HEBETATA F. SEMISPINA	5339.51
WN989	N18	WN989036	16.20	7/22/98	SKELETONEMA COSTATUM GREV+CLEVE	12848.85
WN989	N18	WN989036	16.20	7/22/98	THALASSIONEMA NITZSCHIOIDES	133.51
WN989	N18	WN989036	16.20	7/22/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	224774.68
WN989	N18	WN989036	16.20	7/22/98	UNID. MICRO-PHYTOFLAG LENGTH >10 MICRONS	8076.92
WN989	N18	WN989036	16.20	7/22/98	CERATIUM FUSUS	2213.64
WN989	N18	WN989036	16.20	7/22/98	CERATIUM LINEATUM	188.56
WN989	N18	WN989036	16.20	7/22/98	CERATIUM LONGIPES	114.08
WN989	N18	WN989036	16.20	7/22/98	CERATIUM SPP.	241.14
WN989	N18	WN989036	16.20	7/22/98	CERATIUM TRIPOS	7299.31
WN989	N18	WN989036	16.20	7/22/98	DINOPHYSIS ACUMINATA	1.10
WN989	N18	WN989036	16.20	7/22/98	DINOPHYSIS NORVEGICA	NA
WN989	N18	WN989036	16.20	7/22/98	DISTEPHANUS SPECULUM	29.26
WN989	N18	WN989036	16.20	7/22/98	GYMNODINIUM SPP. (30UM)	NA
WN989	N18	WN989036	16.20	7/22/98	GYRODINIUM SP. GROUP 2 21-40UM W 21-50UM L	22.98
WN989	N18	WN989036	16.20	7/22/98	KATODINIUM ROTUNDATUM	0.06
WN989	N18	WN989036	16.20	7/22/98	PROROCENTRUM MINIMUM	0.22
WN989	N18	WN989036	16.20	7/22/98	PROTOPERIDIUM DEPRESSUM	2518.80
WN989	N18	WN989036	16.20	7/22/98	PROTOPERIDIUM PYRIFORME	NA
WN989	N18	WN989036	16.20	7/22/98	PROTOPERIDIUM SP. GROUP 1 10-30W 10-40L	31.82
WN989	N18	WN989036	16.20	7/22/98	PROTOPERIDIUM SP. GROUP 2 31-75W 41-80L	24.06
WN989	N18	WN989036	16.20	7/22/98	PROTOPERIDIUM TROCHOIDIUM	89.73
WN989	N18	WN989038	1.23	7/22/98	CALYCOMONAS WULFFII	2841.51
WN989	N18	WN989038	1.23	7/22/98	CENTRIC DIATOM SP. GROUP 1 DIAM <10 MICRONS	1567.92
WN989	N18	WN989038	1.23	7/22/98	CERATAULINA PELAGICA	56118.51
WN989	N18	WN989038	1.23	7/22/98	CERATIUM FUSUS	46445.49
WN989	N18	WN989038	1.23	7/22/98	CRYPTOMONAS SP. GROUP 1 LENGTH <10 MICRONS	4476.10
WN989	N18	WN989038	1.23	7/22/98	CRYPTOMONAS SP. GROUP 2 LENGTH >10 MICRONS	1306.60
WN989	N18	WN989038	1.23	7/22/98	CYLINDROTHECA CLOSTERIUM	2401.06
WN989	N18	WN989038	1.23	7/22/98	EUTREPTIA/EUTREPTIELLA SPP.	NA
WN989	N18	WN989038	1.23	7/22/98	GYMNODINIUM SP. GROUP 1 5-20UM W 10-20UM L	60747.17
WN989	N18	WN989038	1.23	7/22/98	GYMNODINIUM SP. GROUP 2 21-40UM W 21-50UM L	93313.75
WN989	N18	WN989038	1.23	7/22/98	GYRODINIUM SP. GROUP 1 5-20UM W 10-20UM L	3369.50
WN989	N18	WN989038	1.23	7/22/98	GYRODINIUM SPIRALE	136896.02
WN989	N18	WN989038	1.23	7/22/98	LEPTOCYLINDRUS MINIMUS	111992.13
WN989	N18	WN989038	1.23	7/22/98	PROBOSCIA ALATA	128342.13
WN989	N18	WN989038	1.23	7/22/98	PSEUDONITZSCHIA DELICATISSIMA	1643.62
WN989	N18	WN989038	1.23	7/22/98	PYRAMIMONAS SP. GROUP 1 10-20 MICRONS LENGTH	NA
WN989	N18	WN989038	1.23	7/22/98	RHIZOLENIA DELICATULA	7102.25
WN989	N18	WN989038	1.23	7/22/98	RHIZOLENIA FRAGILISSIMA	26066.35
WN989	N18	WN989038	1.23	7/22/98	SCRIPPSIELLA TROCHOIDEA	11039.56
WN989	N18	WN989038	1.23	7/22/98	UNID. MICRO-PHYTOFLAG LENGTH <10 MICRONS	266341.82
WN989	N18	WN989038	1.23	7/22/98	ATHECATE DINOFLAGELLATE	NA
WN989	N18	WN989038	1.23	7/22/98	CERATIUM FUSUS	1845.29
WN989	N18	WN989038	1.23	7/22/98	CERATIUM LINEATUM	243.97
WN989	N18	WN989038	1.23	7/22/98	CERATIUM LONGIPES	185.87
WN989	N18	WN989038	1.23	7/22/98	CERATIUM TRIPOS	2626.93
WN989	N18	WN989038	1.23	7/22/98	DINOPHYSIS NORVEGICA	NA
WN989	N18	WN989038	1.23	7/22/98	GYMNODINIUM SPP. (30UM)	NA

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WN989	N18	WN989038	1.23	7/22/98	GYRODINIUM SP. GROUP 2 21-40UM W 21-50UM L	12.48
WN989	N18	WN989038	1.23	7/22/98	PROTOPERIDINIUM PYRIFORME	NA
WN989	N18	WN989038	1.23	7/22/98	PROTOPERIDINIUM SP. GROUP 1 10-30W 10-40L	9.88
WN989	N18	WN989038	1.23	7/22/98	PROTOPERIDINIUM SP. GROUP 2 31-75W 41-80L	1332.76
WN989	N18	WN989038	1.23	7/22/98	PROTOPERIDINIUM TROCHOIDIUM	217.09
WN989	N18	WN989038	1.23	7/22/98	THECATE DINOFLAGELLATE SPP.	NA



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