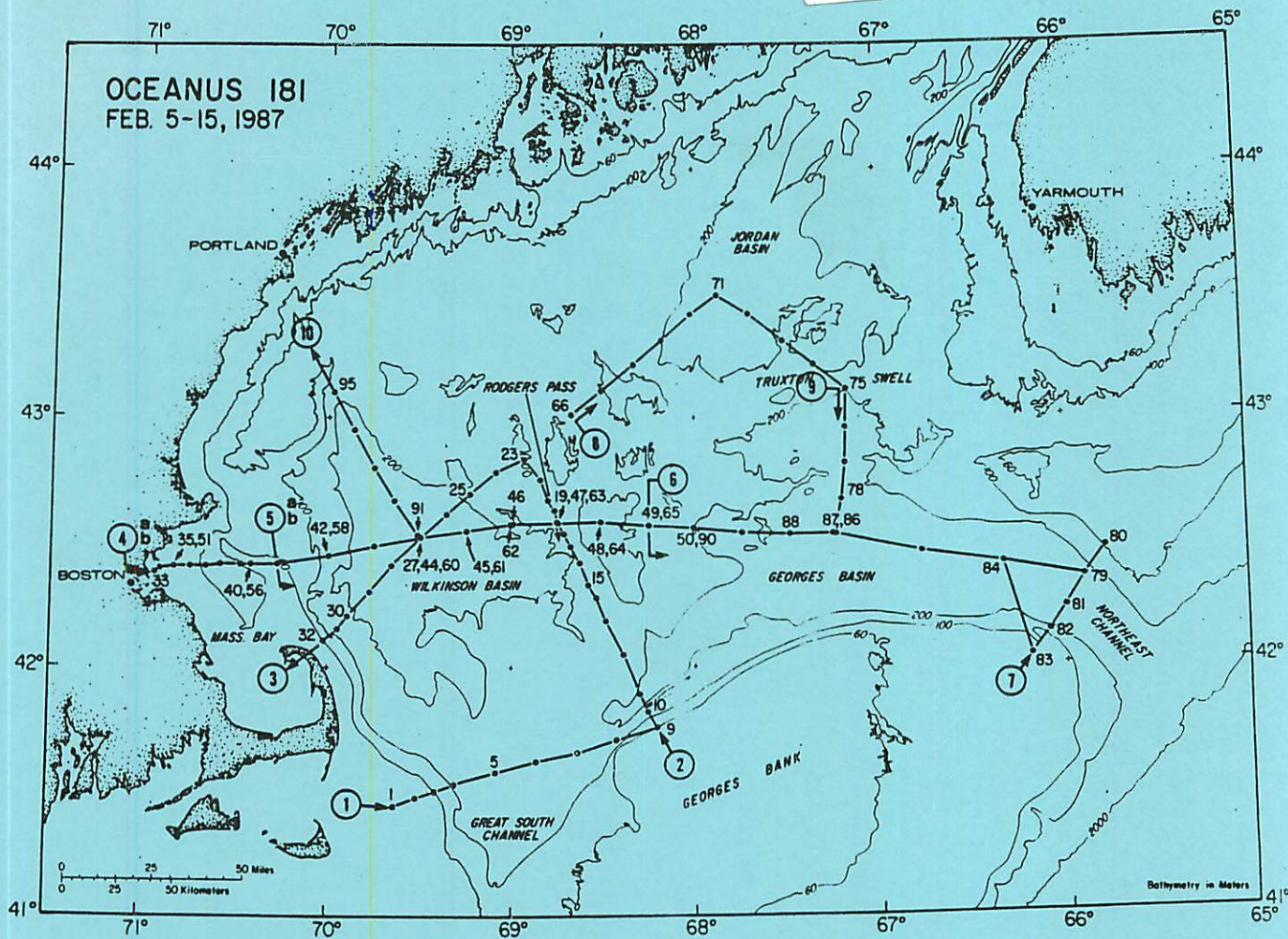


U.S. DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

HYDROGRAPHY OF THE GULF OF MAINE AND MASSACHUSETTS BAY
DATA REPORT FOR R/V OCEANUS CRUISE 181, FEBRUARY 5-15, 1987

by
John A. Moody¹, Bradford Butman², Polly Shoukimas²
and Terence G. Donoghue³

Open-File Report 90-350



Prepared in cooperation with the University of New Hampshire
Sea Grant R/FM-104 and National Science Foundation Grant OCE-8517274

¹Denver, CO ²Woods Hole, MA ³University of New Hampshire, Durham, NH

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This report is preliminary and has not been reviewed for conformity with U.S. Geological Survey editorial standards. Any use of trade names is for descriptive purposes only and does not imply endorsement by the USGS.

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HYDROGRAPHY OF THE GULF OF MAINE AND MASSACHUSETTS BAY

DATA REPORT FOR R/V OCEANUS CRUISE 181, February 5-15, 1987

John A. Moody, Bradford Butman, Polly Shoukimas
and Terence G. Donoghue

INTRODUCTION

This report presents hydrographic data obtained on R/V OCEANUS Cruise 181 from February 5-15, 1987. The hydrographic measurements (pressure, temperature, salinity, oxygen, beam attenuation, phosphate, silicate and nitrate/nitrite) were obtained in Georges, Jordan, and Wilkinson Basin in the Gulf of Maine and directly east of Boston across Massachusetts Bay as part of a study of currents and sediment transport in this region (figure 1).

During Cruise 181, a total of 95 hydrographic profiles were obtained by means of a conductivity-temperature-depth (CTD) profiler. Stations are numbered sequentially and station information is tabulated in table 1. The stations were arranged in ten transects (figure 1). Section 1 was across the Great South Channel and section 7 was across the Northeast Channel--the two main oceanic entrances and exits of the Gulf of Maine. Section 2 was along a saddle (Rodgers Pass) separating Wilkinson Basin from Georges Basin. Sections 3, 5, and 10 were across different regions of Wilkinson Basin and all intersected at the longterm mooring site W1 in the center of Wilkinson Basin; section 8 was a dog-leg section through the southern portion of Jordan Basin; and sections 6 (east-west) and 9 (north-south) were within Georges Basin. A severe winter storm (see table 2 and 3) occurred between February 9 and 10 and work was stopped while the OCEANUS rode out the storm in Cape Cod Bay and repaired storm damage. Section 4 across Massachusetts Bay and section 5 across Wilkinson Basin, were repeated twice, once before the storm (sections 4a and 5a) and once after the storm (sections 4b and 5b).

OBJECTIVES

The hydrographic observations reported here were part of an extensive study designed to investigate the variability of the thermohaline environment and the associated large-scale circulation in the Gulf of Maine on a seasonal basis. Four extensive hydrographic cruises were conducted as part of this program in February, April, July/August, and September 1987. The February cruise was conducted by the U.S. Geological Survey while the other cruises were conducted by W. Brown, K. Garrison and J. Irish from the University of New Hampshire (UNH). Data from the April, July and September cruises are reported in Garrison, Brown and Irish (1989), Garrison and Brown (1989a), and Garrison and Brown (1989b) respectively. In addition to the hydrographic program, moored temperature, salinity and pressure measurements were made at the center of the major basins (Jordan Basin, Station 71; Georges Basin, Stations 86, 87; and Wilkinson Basin (stations 27, 44, 60 and 91) by UNH and current temperature and light transmission observations on the sills between these basins (Truxtón Swell,

station 75; Rodgers Pass, Station 19, 47, 63) by the USGS.

STATION PROCEDURES

At each CTD station, the ship held position and a surface-water sample was obtained, using a bucket sampler, for analysis of salinity. The CTD was lowered within a rosette frame holding six 5-liter Niskin bottles and was held slightly below the surface while CTD surface readings, latitude, longitude, and water depth were recorded in a deck log. The CTD was then lowered at approximately 30 m/min and stopped approximately 2-5 m above bottom. After the deepest readings were recorded, the Niskin bottles were closed electronically to obtain water samples at approximately 5 and 30 meters above the bottom and where possible at 150, 100, 50, and 2 meters below the surface as the CTD and rosette frame was brought back to the surface at about 50m/min. The CTD was held at the surface while final CTD readings were recorded. The Niskin bottles were removed and water samples were withdrawn for measurement of salinity at 65 stations (table 4) and 1 to 7 samples for measurement of oxygen at 46 stations (table 5). Approximately 2 liters of sea water were withdrawn for determination of suspended matter concentration. Suspended-matter concentration was measured at 59 stations by filtering the seawater through preweighed, paired 0.45- μ m Millipore filters, rinsing salt off with distilled water and later on land, air drying the filters under a laminar flow hood and reweighing. The suspended matter and the corresponding light attenuation coefficient at the sample depth are listed in table 6. Samples were also obtained for nutrient analysis from all bottles (Table 7). Meteorological observations during the cruise (obtained from the ships deck log) are listed in tables 2 and 3.

INSTRUMENT DESCRIPTION

The CTD profiler (Neil Brown Instrument Systems, Mark III) was modified to measure oxygen and light transmission. A scan of data (conductivity, temperature, pressure, oxygen current, oxygen temperature, and light transmission) was obtained at a rate of 32 times each second. Conductivity was measured with a miniature four-electrode alumina ceramic cell (Neil Brown Instrument Systems, model no. B10086). The temperature sensor was a platinum resistance thermometer (Rosemount Engineering Co., model 171-BJ) mounted in a temperature bridge with a reference resistor. Pressure was measured with a bonded wire strain gauge bridge (Standard Control, Inc., model no. 211-35-440). The dissolved oxygen was computed from a time average measurement (1.024 s) of the current and internal temperature of a polarographic membrane (Beckman model no. 147737). Light transmission was measured using a Sea Tech 25-cm or 100-cm path length transmissometer (Bartz and others, 1978) mounted horizontally inside the CTD cage. The light source was a light-emitting diode with a wavelength of 660 nm and a beam diameter of 20 mm. All sensor ranges, accuracies, and resolutions from manufacturers' specifications are listed in Appendix II. For more detailed technical description of the CTD system, see Brown and Morrison (1978), and for more detailed description of field performance, see Fofonoff and others (1974).

The salinity of water samples collected during the CTD cast was measured with a salinometer (Guildline Autosol 8400) and the oxygen was measured according to the Winkler chemical titration method (Strickland and Parson, 1972). The accuracies of both methods are listed in Appendix II.

Navigation was by a Northstar 6000 Loran-C, and latitude and longitude were determined by the Northstar 5101 algorithm. Water depth at each station was measured with a Giffit echo sounder.

INSTRUMENT CALIBRATION

Temperature time-lag

The platinum resistance thermometer time constant ($T_{lag} = 0.125$ s) was selected to minimize density inversions in regions of strong thermal gradients. Since the temperature sensor had a slower response than the conductivity and pressure sensors, an exponential recursive filter (Bendat and Piersol, 1971) was applied to the conductivity and pressure series to lag these variables to match the temperature (Millard, 1982). The digital form of the filter is:

$$y(t) = y(t-dt) \cdot W_0 + x(t) \cdot W_1$$

$$dt = \text{CTD sampling time interval} = 0.03125 \text{ s}$$

$y(t)$ is the filtered output of conductivity or pressure

$y(t-dt)$ is the previous value

$x(t)$ is the unfiltered input

$$W_0 = e^{-dt/T_{lag}}$$

$$W_1 = 1 - W_0$$

A precruise laboratory calibration of the CTD temperature had been done on January 14, 1987, at the Woods Hole Oceanographic Institution, and the temperature offset (calibration bath minus CTD) ranged between a low of -0.0079 and -0.0090°C . at 7° and 29°C to a high of -0.0123° at 15°C . No correction was made to the temperatures measured by the CTD to account for these offsets.

Salinity

Salinity in practical salinity units, psu, (Lewis, 1980) and σ_t were calculated from conductivity, temperature, and pressure using the 1980 equation of state for seawater (Millero, 1980) and algorithms given by Fofonoff and Millard (1983). Seventy-four bottle salinities for 65 stations were measured with the Guildline Autosol 8400 after the cruise and the values are listed in table 4 along with the CTD salinity values. The difference (bottle-CTD) between measurements was typically 0.033 psu. Similar results were obtained for a precruise laboratory calibration of conductivity done on January 14, 1987, at WHOI. The offset (calibration bath minus CTD) ranged from 0.0152 mmhos to 0.0240

mmho, which corresponds to salinity offsets of about 0.015 to 0.024 psu. Based on these laboratory calibrations, no correction was made to the salinities reported here.

Oxygen

Oxygen was computed using an algorithm (Owens and Millard, 1984) which has six adjustable parameters (OXB, OCS, τ , tcor, WT, pcor) which are determined by comparison with water sample oxygen values. The oxygen algorithm is

$$OX = (OXB + (OCS + \tau \frac{dOC}{dt})) \cdot OXSAT \cdot e^{[tcor \cdot (t+WT(ot-t)) + pcor \cdot p]}$$

where:

- OX = CTD dissolved oxygen value in ml/l
- t = CTD water temperature in °C
- p = CTD pressure in decibar (dbar)
- OC = CTD oxygen current in μA
- ot = CTD oxygen probe internal temperature in °C
- OXB = oxygen current bias
- OCS = oxygen current slope in μA^{-1}
- τ = oxygen diffusion time-lag constant in s
- tcor = temperature correction factor ($^{\circ}C^{-1}$) for membrane permeability
- WT = weighing fraction of oxygen probe internal temperature
- pcor = pressure correction factor ($dbar^{-1}$) for membrane permeability
- OXSAT = oxygen saturation value in ml/l after Weiss (1970)

Due to the limited calibration values the correction factors for membrane permeability (tcor and pcor) were fixed at -.0353 and 1.15×10^{-4} , respectively based on values determined by R. C. Millard (pers. commun.).

The oxygen diffusion time-lag constant τ (see Owens and Millard, 1984) is important only in regions of sharp changes in oxygen. These regions are usually small so that this parameter was initially ignored in the regression and determined later by trial and error.

The water samples from 46 CTD stations were measured by chemical titration for dissolved oxygen (Strickland and Parsons, 1972). The oxygen sensor was damaged from freezing temperatures (deck temperatures were below $-3^{\circ}C$) after station 85 was finished. The damage was evident when the oxygen current readings changed radically.

So the three parameters, OXB, OCS, and WT, were determined by a non-linear regression fit (SAS Institute, Inc., 1982) to 70 calibration points from 40 stations giving values (\pm standard error) of: OXB = 0.43 ± 0.04 , OCS = 1.02 ± 0.07 , and WT = 0.07 ± 0.10 .

The remaining parameter τ was determined by creating plots of down and upcast with different values of τ . The final value of $\tau = 6.0$ s was chosen to minimize the hysteresis in regions of sharp gradients and still retain detailed

structure. Table 5 compares the measured and CTD-computed oxygen for the 70 samples and lists the measured values for stations 86 to 95. Stations 92 and 95 in Wilkinson Basin have oxygen values at 7 and 5 depth which are not shown on any figures. The mean residual (measured-CTD oxygen) is 0.09 ml/l with a standard deviation of ± 0.54 ml/l.

The mean residual for stations 80 to 85 was 0.74 ml/l (CTD was lower than the measured oxygen) which suggests the oxygen sensor may have been deteriorating as exposure time to freezing temperature increased. A better set of oxygen values could possibly be obtained by fitting by groups of stations that constitute a section; however, the number of oxygen values used for the non-linear regression fit would decrease--increasing the uncertainty of the OXB, OCS, and WT values. There may also be enough oxygen values so that the parameters t_{cor} , p_{cor} , and r could be determined from the 70 calibration oxygen values.

Light transmission

The beam attenuation coefficient, ATN (in m^{-1}) over a 100-cm path length, was computed from the measured transmissometer voltages (TR) using

$$ATN = - \frac{1}{L} \ln \left(\frac{TR}{TR_{cw}} \right)$$

where TR_{cw} is the voltage measured in clear water. TR_{cw} is approximately 0.95 times the measured voltage in air for 25-cm transmissometer ($L=0.25m$) and approximately 0.76 times for a 100-cm transmissometer ($L=1.0m$) (Bartz and others, 1978) or can be determined in a laboratory tank (see Moody and others, 1986, for method). Two transmissometers were used during the cruise; a 100-cm transmissometer was used during CTD casts at stations 1 to 50 and 74 to 95 and a 25-cm transmissometer (No.102) was used on casts at stations 51-73. The values of TR_{cw} for the 100 cm transmissometer was 3.29 volts and 3.77 volts for the 25-cm transmissometer. The clearest water was measured at stations 79, 80, 81, and 89 in the Northeast channel where the attenuation coefficient, ATN, was slightly less than zero indicating that TR_{cw} for 100-cm transmissometer should be 3.37 volts. This change in TR_{cw} would increase all values of ATN by only $0.02m^{-1}$ so that the data listings in the appendix are based on the original estimate of TR_{cw} equal to 3.29 volts for stations 1 to 50 and 74 to 95.

Accuracy and precision

The CTD temperatures are at most $0.01^{\circ}C$ higher than the water bath temperatures. The CTD salinities are, on the average, 0.033 psu lower than the 74 bottle salinities and the CTD oxygens are, on the average, 0.1 ml/l lower than the 70 oxygen values measured by chemical titration. The light attenuation measurements are possibly $0.02 m^{-1}$ too low.

The precision of these CTD measurements is $\pm 0.002^{\circ}C$ for temperature, ± 0.05 psu for salinity, ± 0.5 ml/l for oxygen and since changes in the transmission voltage are accurate to ± 0.04 volts then for a typical output voltage of about 3.50 volts the attenuation coefficient are precise to $\pm 0.01 m^{-1}$.

NUTRIENT ANALYSIS:

The nutrient samples were capped and frozen on board and then stored at -15 degrees C until analyzed in August, 1988. Reactive phosphate and silicate were measured by the molybdenum blue method (Technicon, 1973a,b) and nitrate/nitrite nutrients were measured by cadmium reduction and Greiss reaction (Technicon, 1972). The AutoAnalyzer methods and adjustments made for refractive index corrections and carryover are as described by Gilbert and Loder (1977) and Loder and Glibert (1977). The nutrient concentrate is measured in micromoles per liter (μM) and the results are listed by station and depth in Table 7. The estimated precision is the average standard deviation for 3-4 standards analyzed at the same time. An estimate of the accuracy can be calculated by multiplying the precision four times. The estimated precisions for reactive phosphate and silicate were $\pm 0.02\mu\text{M}$ at $1\mu\text{M}$, and $\pm 0.05\mu\text{M}$ at $15\mu\text{M}$ respectively. The precision for the nitrate/nitrite analysis was $\pm 0.08\mu\text{M}$ at $10\mu\text{M}$.

Some of the samples (37 out of 367) had salt around the leftover seawater on the vial or ice formation could have forced some salt out of an overfilled vial. These samples are included since there are no obvious systematic differences and the concentration values presented here are consistent with past surveys in the Gulf of Maine. However, due to the age and condition of some of the samples at the time of analysis it is felt that the accuracy of the data presented, particularly the phosphate values, may be worse than indicated. Although much care has been taken to ensure consistency among the data, analysis of these data is still in progress and users may wish to contact T. Donoghue.

DATA PROCESSING

The CTD data (pressure, temperature, conductivity, oxygen current, oxygen temperature, and light transmission) were recorded at sea on both 9-track magnetic tape (see Appendix III) and 1/4" FM-tape. The data were processed ashore using the techniques described by Millard (1982). The original 9-track data tapes were first checked for proper format and station sequence, and the data were then transferred to disc storage. The data obtained on both the downcast and upcast were subsampled (usually every 100 to 200 points), listed, and plotted to check instrument performance. Spurious points were identified and replaced with the previous good value using range filters for each variable. The ranges were typically 1 variable unit except for transmission, which was 0.05-0.10 volts. The conductivity and pressure data were time-lagged to correct for the time constant of the temperature sensor (see above), and then the pressure was filtered to obtain a monotonically increasing series of water depths. Any density inversions not deleted by the range filter were identified by a point-editing program and replaced by interpolating between adjacent values of density. The editor recomputed the salinity from the interpolated values of density and the original temperature. Any spurious points in light transmission and oxygen not already deleted by the range filter were deleted using the point editor. The data were averaged over 2-dbar pressure intervals; at about 10 dbar above the bottom, this was changed to a 1-dbar average. These averaged data were used to contour the hydrographic sections presented in this report.

DATA PRODUCTS

Vertical sections

The hydrographic data are presented in several ways. Vertical sections are shown in figures 2-11. The sections are numbered as shown in figure 1 and have also been given a descriptive title--Wilkinson Basin, etc. The station numbers for each section are labeled across the top and the vertical scale is the same for all sections except section 4. The bathymetry is defined only by the depth at each station.

The crossing of the contour interval for each variable was plotted below each station and then contoured by hand. The contour intervals are the same for all sections (0.2°C, 0.2 psu., 0.1 sigma-t units, 0.2 ml/l and 0.05m⁻¹) except section 4 where the vertical scale was changed.

Horizontal sections

Horizontal sections of temperature, salinity, sigma-t, oxygen and light attenuation were contoured for surface, 50-, 150- and 200-dbars pressure surfaces (figures 12-16). All horizontal sections were contoured by hand. Some stations were occupied more than one time and an average value was used. For the oxygen sections only stations 1-50 and 66-85 were used since severe winter storm between February 8 and 11 may have overturned the water nearshore (stations 51-65) such that an average would not be realistic.

TS diagrams

Plots of temperature versus salinity (TS plots, figs. 17-45) were organized by section (see column 2 of table 1). The symbol for each station was plotted every 100 dbar. The 100- and 200-dbar points have been annotated.

Station profiles

Plots of temperature, salinity, sigma-t, oxygen, light attenuation coefficient, and buoyancy or Brunt-Vaisala frequency

$$N^2 = - (g/\rho) \frac{\delta\rho}{\delta z}$$

(ρ = water density, g = gravity, z = depth) as a function of pressure at each station are shown in figures 46a-140a. For the Brunt-Vaisala frequency, density was determined using the 1980 equation of state (Millero and others, 1980), and the gradient of the specific volume anomaly was estimated from a least squares fit of a straight line to nine observations (± 8 dbar) centered about the specified depth. The Brunt-Vaisala frequency was not computed for the first four average depths nor for the last four average depths; the magnitudes of N listed at these depths are the same as the Brunt-Vaisala frequency for the fifth and fifth-to-last depths, respectively. The different symbols used to distinguish variables are shown on each variable axis. The units of salt are practical salinity units (psu) and are defined by Lewis (1980).

Nutrient profiles

Plots of reactive phosphate, reactive silicate and nitrate/nitrite are shown in figures 46b-140b.

Data listing

A listing of the 2-dbar-averaged data is contained in Appendix I. For the data listings, time is in Eastern Standard Time, SALIN is the salinity, OXY is the dissolved oxygen, ATN is the beam attenuation coefficient, SIGT is the density anomaly σ_t , N is the Brunt-Vaisala frequency, DYHT A is the dynamic height anomaly, and S SPD is the speed of sound in seawater computed using a Fortran subroutine given in Fofonoff and Millard (1983).

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Table 1. Hydrographic stations R/V OCEANUS Cruise 181 February 5-15, 1987.
Time is for the middle of the CTD cast when CTD is nearest the bottom.

| Station | Section | Date | Time (EST) | Latitude (N.) | Longitude (W.) | Water Depth (m) |
|---------|---------|--------|---------------|------------------|-------------------|-----------------------|
| 1 | 1 | FEB 05 | 1414 | 41° 26.52' | 69° 37.83' | 26 |
| 2 | 1 | FEB 05 | 1514 | 41° 29.12' | 69° 30.92' | 38 |
| 3 | 1 | FEB 05 | 1603 | 41° 30.10' | 69° 24.98' | 60 |
| 4 | 1 | FEB 05 | 1727 | 41° 31.77' | 69° 17.56' | 125 |
| 5 | 1 | FEB 05 | 1901 | 41° 33.90' | 69° 5.22' | 164 |
| 6 | 1 | FEB 05 | 2033 | 41° 36.99' | 68° 52.08' | 126 |
| 7 | 1 | FEB 05 | 2202 | 41° 39.06' | 68° 39.02' | 150 |
| 8 | 1 | FEB 05 | 2330 | 41° 42.09' | 68° 26.00' | 170 |
| 9 | 1,2 | FEB 06 | 0056 | 41° 45.35' | 68° 11.85' | 62 |
| 10 | 2 | FEB 06 | 0144 | 41° 49.29' | 68° 15.30' | 142 |
| 11 | 2 | FEB 06 | 0244 | 41° 53.84' | 68° 16.93' | 212 |
| 12 | 2 | FEB 06 | 0423 | 42° 02.93' | 68° 23.47' | 188 |
| 13 | 2 | FEB 06 | 0611 | 42° 11.45' | 68° 29.19' | 161 |
| 14 | 2 | FEB 06 | 0726 | 42° 16.93' | 68° 32.12' | 180 |
| 15 | 2 | FEB 06 | 0823 | 42° 20.42' | 68° 34.64' | 170 |
| 16 | 2 | FEB 06 | 0923 | 42° 25.04' | 68° 37.66' | 200 |
| 17 | 2 | FEB 06 | 1014 | 42° 29.65' | 68° 41.28' | 173 |
| 18 | 2 | FEB 06 | 1053 | 42° 32.52' | 68° 43.23' | 198 |
| 19 | 2,5 | FEB 06 | 1303 | 42° 34.90' | 68° 44.45' | 198 |
| 20 | 2 | FEB 06 | 1357 | 42° 38.14' | 68° 46.12' | 181 |
| 21 | 2 | FEB 06 | 1435 | 42° 40.20' | 68° 48.12' | 167 |
| 22 | 2 | FEB 06 | 1543 | 42° 45.74' | 68° 51.86' | 156 |
| 23 | 2,3 | FEB 06 | 1710 | 42° 50.68' | 68° 56.27' | 91 |
| 24 | 3 | FEB 06 | 1827 | 42° 47.03' | 69° 05.16' | 178 |
| 25 | 3 | FEB 06 | 1946 | 42° 41.97' | 69° 13.56' | 166 |
| 26 | 3 | FEB 06 | 2102 | 42° 36.45' | 69° 21.97' | 235 |
| 27 | 3,5,10 | FEB 06 | 2228 | 42° 30.83' | 69° 29.94' | 275 |
| 28 | 3 | FEB 06 | 2346 | 42° 24.52' | 69° 39.02' | 253 |
| 29 | 3 | FEB 07 | 0110 | 42° 18.07' | 69° 46.82' | 247 |
| 30 | 3 | FEB 07 | 0223 | 42° 12.10' | 69° 53.83' | 169 |
| 31 | 3 | FEB 07 | 0312 | 42° 09.15' | 69° 57.43' | 139 |
| 32 | 3 | FEB 07 | 0358 | 42° 06.03' | 70° 01.39' | 62 |
| 33 | 4a | FEB 07 | 1920 | 42° 22.88' | 70° 56.09' | 17 |
| 34 | 4a | FEB 07 | 1948 | 42° 23.46' | 70° 54.37' | 25 |
| 35 | 4a | FEB 07 | 2021 | 42° 23.47' | 70° 50.13' | 36 |
| 36 | 4a | FEB 07 | 2054 | 42° 23.44' | 70° 44.92' | 47 |
| 37 | 4a | FEB 07 | 2127 | 42° 23.46' | 70° 39.90' | 76 |
| 38 | 4a | FEB 07 | 2202 | 42° 23.44' | 70° 34.91' | 89 |
| 39 | 4a | FEB 07 | 2241 | 42° 23.40' | 70° 29.83' | 91 |
| 40 | 4a | FEB 07 | 2319 | 42° 23.45' | 70° 24.79' | 31 |
| 41 | 5a | FEB 08 | 0018 | 42° 24.91' | 70° 14.14' | 67 |
| 42 | 5a | FEB 08 | 0141 | 42° 26.93' | 70° 00.13' | 191 |
| 43 | 5a | FEB 08 | 0315 | 42° 29.08' | 69° 45.23' | 279 |
| 44 | 3,5a,10 | FEB 08 | 0502 | 42° 31.19' | 69° 29.47' | 281 |
| 45 | 5a | FEB 08 | 0647 | 42° 33.13' | 69° 15.03' | 231 |

Table 1. Hydrographic stations R/V. OCEANUS Cruise 181 February 5-15, 1987
(continued).

| Station | Section | Date | Time (EST) | Latitude (N.) | Longitude (W.) | Water Depth (m) |
|---------|---------|--------|---------------|------------------|-------------------|-----------------------|
| 46 | 5a | FEB 08 | 0911 | 42° 34.34' | 68° 59.03' | 205 |
| 47 | 2,5a | FEB 08 | 1036 | 42° 35.42' | 68° 45.11' | 195 |
| 48 | 5a | FEB 08 | 1407 | 42° 35.20 | 68° 30.36' | 221 |
| 49 | 6 | FEB 08 | 1539 | 42° 34.74 | 68° 14.93 | 192 |
| 50 | 6 | FEB 08 | 1711 | 42° 33.38' | 67° 59.88' | 207 |
| 51 | 4b | FEB 11 | 0106 | 42° 23.55' | 70° 50.20' | 35 |
| 52 | 4b | FEB 11 | 0145 | 42° 23.64' | 70° 45.12' | 43 |
| 53 | 4b | FEB 11 | 0218 | 42° 23.53 | 70° 40.08' | 70 |
| 54 | 4b | FEB 11 | 0301 | 42° 23.48' | 70° 35.18' | 88 |
| 55 | 4b | FEB 11 | 0339 | 42° 23.61' | 70° 30.05 | 90 |
| 56 | 4b | FEB 11 | 0416 | 42° 23.52' | 70° 25.11' | 31 |
| 57 | 5b | FEB 11 | 0531 | 42° 25.01' | 70° 14.31' | 68 |
| 58 | 5b | FEB 11 | 0654 | 42° 27.03' | 70° 00.18' | 190 |
| 59 | 5b | FEB 11 | 0822 | 42° 29.03 | 69° 44.80 | 277 |
| 60 | 3,5b,10 | FEB 11 | 1004 | 42° 30.70' | 69° 29.10' | 278 |
| 61 | 5b | FEB 11 | 1138 | 42° 33.01' | 69° 14.93' | 230 |
| 62 | 5b | FEB 11 | 1324 | 42° 34.49' | 69° 00.10' | 195 |
| 63 | 2,5b | FEB 11 | 1511 | 42° 35.63' | 68° 44.95' | 194 |
| 64 | 5b | FEB 11 | 1658 | 42° 35.02' | 68° 30.07' | 220 |
| 65 | 6b | FEB 11 | 1859 | 42° 34.46' | 68° 15.19' | 194 |
| 66 | 8 | FEB 12 | 0854 | 43° 00.17' | 68° 41.11' | 188 |
| 67 | 8 | FEB 12 | 1019 | 43° 05.93' | 68° 29.94' | 205 |
| 68 | 8 | FEB 12 | 1143 | 43° 12.41' | 68° 20.05' | 191 |
| 69 | 8 | FEB 12 | 1312 | 43° 18.53' | 68° 10.31' | 206 |
| 70 | 8 | FEB 12 | 1454 | 43° 24.47' | 68° 01.20' | 242 |
| 71 | 8 | FEB 12 | 1720 | 43° 29.38' | 67° 52.52' | 286 |
| 72 | 8 | FEB 12 | 1918 | 43° 24.84' | 67° 42.32' | 252 |
| 73 | 8 | FEB 12 | 2058 | 43° 18.20' | 67° 31.45' | 202 |
| 74 | 8 | FEB 12 | 2211 | 43° 11.97' | 67° 20.81' | 200 |
| 75 | 9 | FEB 12 | 2324 | 43° 05.88' | 67° 09.88' | 213 |
| 76 | 9 | FEB 13 | 0047 | 42° 57.10' | 67° 10.43' | 233 |
| 77 | 9 | FEB 13 | 0154 | 42° 48.72' | 67° 10.90' | 220 |
| 78 | 9 | FEB 13 | 0306 | 42° 39.98' | 67° 12.11' | 265 |
| 79 | 6,7 | FEB 13 | 0900 | 42° 20.62' | 65° 54.64' | 228 |
| 80 | 7 | FEB 13 | 1226 | 42° 28.00' | 65° 47.62' | 103 |
| 81 | 7 | FEB 13 | 1436 | 42° 13.91' | 65° 59.83' | 246 |
| 82 | 7 | FEB 13 | 1552 | 42° 08.06' | 66° 05.11' | 211 |
| 83 | 7 | FEB 13 | 1710 | 42° 01.81' | 66° 11.60' | 93 |
| 84 | 6 | FEB 13 | 2059 | 42° 24.54' | 66° 20.40' | 260 |
| 85 | 6 | FEB 14 | 0051 | 42° 27.60' | 66° 46.98' | 335 |
| 86 | 6,9 | FEB 14 | 0817 | 42° 31.76' | 67° 14.09' | 328 |
| 87 | 6,9 | FEB 14 | 0858 | 42° 32.31' | 67° 14.97' | 322 |
| 88 | 6 | FEB 14 | 1134 | 42° 32.17' | 67° 28.99' | 280 |
| 89 | 6 | FEB 14 | 1410 | 42° 32.43' | 67° 44.77' | 233 |
| 90 | 6 | FEB 14 | 1615 | 42° 33.47' | 67° 59.96 | 208 |

Table 1. Hydrographic stations R/V OCEANUS Cruise 181 February 5-15, 1987
(continued).

| Station | Section | Date | Time (EST) | Latitude (N.) | Longitude (W.) | Water Depth (m) |
|---------|---------|--------|---------------|------------------|-------------------|-----------------------|
| 91 | 5,10 | FEB 15 | 0239 | 42° 31.28' | 69° 31.27' | 282 |
| 92 | 10 | FEB 15 | 0453 | 42° 40.10' | 69° 38.47' | 283 |
| 93 | 10 | FEB 15 | 0636 | 42° 48.11' | 69° 45.58' | 261 |
| 94 | 10 | FEB 15 | 0813 | 42° 56.92' | 69° 52.08' | 231 |
| 95 | 10 | FEB 15 | 0923 | 43° 05.43 | 69° 58.46' | 157 |

Table 2. Meteorological observations for R/V OCEANUS Cruise 181 obtained from ship's deck log. (time is Eastern Standard Time). (See Table 3 for key to meteorological observations).

| Date | Time EST | Wind | | Sea | | | Air | | Weather |
|--------|-------------|------|-------|-----------|-------|--------|------------------|--------------|---------|
| | | Dir | Force | Dir | Swell | Height | Pressure (mb) | Temp (°c) | |
| Feb 5 | 1200 | NW | 5 | --- | -- | 3 | 1026 | -4.4 | bc |
| | 1600 | NW | 6 | NW | 1 | 4 | 1025 | -1.1 | bc |
| | 2000 | WNW | 6 | NW | 3 | 4-5 | 1026 | -2.2 | bc |
| | 2400 | WxN | 4-5 | NW | 1 | 3 | 1023 | 0.0 | bc |
| Feb 6 | 0400 | W | 5 | -- | -- | 3 | 1020 | 0.0 | c |
| | 0800 | WxN | 5-6 | W | 3 | 4 | 1020 | -0.6 | c |
| | 1200 | WxN | 5 | NW | 1 | 3 | 1020 | ---- | c |
| | 1600 | WNW | 5 | NW | 1 | 3 | 1019 | -0.6 | bc |
| | 2000 | Var | 1-2 | NW | 1 | 2-3 | 1020 | 0.6 | b |
| | 2400 | SSW | 4 | -- | -- | 3 | 1020 | 2.2 | bc |
| Feb 7 | 0400 | S | 5-6 | -- | -- | 2 | 1016 | 1.1 | bc |
| | 0800 | SxW | 4 | E | 1 | 2 | 1012 | 2.8 | o |
| | 1200 | Lt | airs | -- | -- | calm | 1008 | 3.3 | bc |
| | 1600 | ESE | 1 | -- | 0 | 0 | 1006 | 7.2 | bc |
| | 2000 | NW | 2 | -- | -- | 1-2 | 1007 | 3.3 | c |
| | 2400 | NNW | 3 | -- | -- | 3 | 1004 | 3.9 | o |
| Feb 8 | 0400 | NE | 2-3 | -- | -- | 1 | 1003 | 4.4 | c |
| | 0800 | NE | 4 | NE | 1 | 2 | 1004 | 2.8 | o |
| | 1200 | ESE | 3 | NE | 1 | 2-3 | 1004 | 3.3 | o |
| | 1600 | SE | 3-4 | NE | 1 | 2 | 1003 | 3.3 | o |
| | 2000 | S | 4 | S | 1 | 3 | 1002 | 4.4 | o |
| | 2400 | SE | 3 | -- | -- | 3 | 1000 | 4.4 | o |
| Feb 9 | 0400 | ENE | 5 | anchored | | 2 | 998 | 3.3 | or |
| | 0800 | NE | 5-6 | in | | -- | 999 | 2.8 | or |
| | 1200 | NNE | 8-9 | Province- | | | 996 | 0.6 | os |
| | 1600 | N | 9+ | town | | 3 | 994 | 0.0 | su |
| | 2000 | N | 8-10 | outer | | 3 | 995 | --- | os |
| | 2400 | NNW | 8-10 | harbor | | 3 | 996 | --- | os |
| Feb 10 | 0400 | NW | 7-8 | anchored | | 2-3 | 1000 | -5.0 | s |
| | 0800 | NW | 7 | anchored | | 2-3 | 1003 | -8.3 | c |
| | 1200 | NW | 6 | NW | 3 | 4 | 1002 | -5.0 | bc |
| | 1600 | W | 4 | moored | | -- | 1006 | -1.1 | c |
| | 2000 | W | 3-4 | moored | | -- | 1008 | -2.2 | bc |
| | 2400 | WNW | 6-7 | WNW | 1-3 | 4 | 1009 | -3.9 | bc |

Table 2. Meteorological observations for R/V OCEANUS Cruise 181 obtained from ship's deck log (continued).

| Date | Time EST | Wind | | Sea | | | Air | | Weather |
|--------|-------------|------|-------|-----|-------|--------|------------------|--------------|---------|
| | | Dir | Force | Dir | Swell | Height | Pressure (mb) | Temp (°c) | |
| Feb 11 | 0400 | W | 7 | WNW | 1 | 3 | 1010 | -3.3 | b |
| | 0800 | W | 7-8 | WNW | 3 | 4 | 1007 | -1.7 | bc |
| | 1200 | NW | 8 | NW | 4 | 5 | 1005 | 0.0 | bc |
| | 1600 | WNW | 8 | WNW | 4 | 5 | 1003 | -1.1 | bc |
| | 2000 | WxN | 8-9 | WNW | 4 | 5-6 | 1002 | -2.8 | bc |
| | 2400 | NWxW | 8-9 | WxN | 4-7 | 6 | 1004 | -6.1 | bc |
| Feb 12 | 0400 | NW | 7-8 | NW | 4 | 5-6 | 1004 | -5.6 | bc |
| | 0800 | NW | 6-7 | NW | 3 | 5 | 1004 | -3.9 | bc |
| | 1200 | WNW | 5-6 | NW | 3 | 4 | 1001 | -3.3 | bc |
| | 1600 | WNW | 6-7 | WNW | 3 | 3 | 1001 | -2.2 | bc |
| | 2000 | NWxW | 6-7 | WNW | 3 | 4 | 997 | -3.9 | bc |
| | 2400 | NWxW | 5 | WNW | 1 | 4 | 998 | -3.9 | bc |
| Feb 13 | 0400 | WNW | 6 | WNW | 1 | 3-4 | 997 | -1.1 | c |
| | 0800 | WNW | 5-6 | WNW | 1 | 3 | 995 | -1.1 | o |
| | 1200 | NW | 5-6 | NW | 3 | 3 | 995 | -3.9 | os |
| | 1600 | NW | 6 | NW | 1 | 4 | 998 | -5.0 | os |
| | 2000 | NW | 7 | NW | 3 | 4-5 | 998 | -4.4 | os |
| | 2400 | NW | 7 | NW | 3 | 4 | 1002 | -5.6 | os |
| Feb 14 | 0400 | NW | 7 | NW | 1 | 4-5 | 1005 | -10.0 | os |
| | 0800 | NW | 6-7 | NW | 3 | 4-5 | 1007 | -11.1 | os |
| | 1200 | WxN | 4 | NW | 1 | 4 | 1008 | -7.8 | os |
| | 1600 | WNW | 4-5 | NW | 1 | 3-4 | 1008 | -7.8 | os |
| | 2000 | WNW | 4-5 | NW | 1 | 3 | ---- | -6.7 | c |
| | 2400 | NWxW | 4-5 | NW | 1 | 2 | 1010 | -5.6 | c |
| Feb 15 | 0400 | NW | 5-6 | NW | 1 | 3 | 1012 | -11.1 | os |
| | 0800 | WNW | 5-6 | NW | 1 | 3 | 1012 | -13.9 | os |
| | 1200 | NW | 5-6 | NW | 1 | 3 | ---- | -13.9 | bc |
| | 1600 | NW | 4 | -- | -- | -- | 1011 | -7.8 | - |
| | 2000 | NW | 4 | -- | -- | -- | 1014 | -13.3 | bc |
| | 2400 | WNW | 2 | -- | -- | -- | 1017 | -16.7 | bc |

Table 3. - Key to meteorological observations.

| Swell | | Sea height | |
|-------|-----------------------|------------|----------------------------|
| 0 | No swell | 0 | Calm |
| 1 | Low, short or average | 1 | Smooth, less than 1' |
| 2 | Low, long | 2 | Slight 1-3' |
| 3 | Moderate, short | 3 | Moderate 3-5' |
| 4 | Moderate, average. | 4 | Rough 5-8' |
| 5 | Moderate, long | 5 | Very rough 8-12' |
| 6 | Heavy, short | 6 | High 12-20' |
| 7 | Heavy, average | 7 | Very high 20-40' |
| 8 | Heavy, long | 8 | Mountainous 40' and higher |
| 9 | Confused | 9 | Confused |

| Weather | Wind | knots | mph |
|---------|----------------------|-------|-------|
| bc | scattered clouds | 1 | 1-3 |
| d | drizzle | 2 | 4-7 |
| f | fog | 3 | 8-12 |
| h | hail | 4 | 13-18 |
| l | lightening | 5 | 19-24 |
| o | overcast | 6 | 25-31 |
| c | mostly cloudy | 7 | 32-38 |
| p | passing rain showers | 8 | 39-46 |
| q | squalls | 9 | 47-54 |
| r | rain | 10 | 55-63 |
| s | snow | 11 | 64-72 |
| t | thunder | 12 | 73-82 |

Table 4. Comparison of salinity values for R/V OCEANUS Cruise 181, February 5-15, 1987. CTD salinity is calculated from in situ conductivity, temperature and pressure measurements and bottle salinity was a measurement (using the Guildline Autosol 8400) of the water samples collected with Niskin bottles.

| Station | Sample Depth (dbar) | Salinity | | Station | Sample Depth (dbar) | Salinity | |
|---------|---------------------|-----------|---------------|---------|---------------------|-----------|---------------|
| | | CTD (psu) | Bottle (o/oo) | | | CTD (psu) | Bottle (o/oo) |
| 4 | 123 | 33.028 | 33.087 | 35 | 32 | 32.475 | 32.535 |
| 5 | 158 | 33.054 | 33.123 | 36 | 39 | 32.530 | 32.560 |
| 6 | 118 | 33.113 | 33.168 | 37 | 67 | 32.719 | 32.739 |
| 7 | 143 | 33.147 | 33.201 | 38 | 84 | 32.869 | 32.911 |
| 8 | 166 | 33.120 | 33.173 | 39 | 86 | 32.873 | 32.908 |
| 9 | 2 | 33.061 | 33.113 | 40 | 27 | 32.944 | 32.979 |
| 10 | 3 | 33.086 | 33.135 | 41 | 62 | 32.989 | 33.024 |
| 11 | 4 | 33.160 | 33.210 | 42 | 187 | 33.228 | 33.257 |
| 15 | 165 | 33.438 | 33.486 | 43 | 271 | 33.893 | 33.957 |
| 16 | 193 | 33.569 | 33.617 | 46 | 199 | 33.886 | 33.919 |
| 17 | 168 | 33.634 | 33.678 | 47 | 191 | 33.911 | 33.960 |
| | | | | 48 | 214 | 34.075 | 34.107 |
| 18 | 52 | 33.001 | 32.934 | 49 | 187 | 33.927 | 33.964 |
| | 100 | 33.338 | 33.056 | 69 | 200 | 34.110 | 34.137 |
| | 151 | 33.761 | 33.816 | 70 | 233 | 34.052 | 34.081 |
| | 193 | 33.814 | 33.858 | 71 | 278 | 34.203 | 34.233 |
| | | | | 72 | 244 | 34.160 | 34.186 |
| 19 | 192 | 33.884 | 33.938 | 73 | 193 | 34.259 | 34.298 |
| 20 | 174 | 33.834 | 33.878 | 74 | 194 | 34.485 | 34.523 |
| 21 | 162 | 33.769 | 33.811 | 75 | 207 | 34.722 | 34.751 |
| 22 | 152 | 33.709 | 33.774 | 76 | 223 | 34.718 | 34.742 |
| 23 | 86 | 33.055 | 33.103 | 77 | 214 | 34.743 | 34.765 |
| 24 | 173 | 33.257 | 33.326 | 78 | 258 | 34.884 | 34.909 |
| 25 | 160 | 33.330 | 33.365 | 79 | 218 | 35.043 | 35.070 |
| 26 | 228 | 33.791 | 33.832 | 80 | 95 | 33.525 | 33.564 |
| 27 | 267 | 33.880 | 33.924 | 81 | 236 | 34.970 | 34.999 |
| 28 | 0 | 33.180 | 33.228 | 82 | 202 | 34.946 | 34.975 |
| | 52 | 33.190 | 33.224 | 83 | 85 | 33.207 | 33.234 |
| | 102 | 33.207 | 33.309 | 84 | 203 | 34.863 | 34.978 |
| | 151 | 33.369 | 33.489 | 85 | 326 | 34.976 | 34.987 |
| | 201 | 33.791 | 33.773 | 86 | 319 | 34.935 | 34.958 |
| | 226 | 33.868 | 33.909 | 88 | 272 | 34.934 | 34.958 |
| | 245 | 33.878 | 33.921 | 89 | 227 | 34.824 | 34.847 |
| 29 | 240 | 33.876 | 33.917 | 90 | 200 | 34.588 | 34.614 |
| 30 | 162 | 33.161 | 33.201 | 91 | 251 | 33.849 | 33.873 |
| 31 | 134 | 33.043 | 33.085 | 93 | 254 | 33.893 | 33.921 |
| 32 | 59 | 32.948 | 33.024 | 94 | 225 | 33.852 | 33.869 |
| 33 | 14 | 32.317 | 32.364 | 95 | 151 | 33.309 | 33.334 |

Table 5. Comparison of oxygen values for R/V OCEANUS Cruise 181, February 5-15, 1987, CTD oxygen was computed using algorithm of Owens and Millard, 1984; the bottle oxygen is based on chemical titration of Strickland and Parsons, 1972.

| Station | Sample Depth (dbar) | Oxygen | | Station | Sample Depth (dbar) | Oxygen | |
|---------|---------------------------|---------------|------------------|---------|---------------------------|---------------|------------------|
| | | CTD (ml/l) | Bottle (ml/l) | | | CTD (ml/l) | Bottle (ml/l) |
| 1 | 2 | --- | 7.35 | 76 | 150 | 4.73 | 4.28 |
| | 24 | --- | 7.35 | | 223 | 4.20 | 4.16 |
| 2 | 36 | --- | 7.20 | 77 | 214 | 4.17 | 4.66 |
| 3 | 56 | 7.30 | 7.05 | 78 | 258 | 4.17 | 4.08 |
| 4 | 122 | 7.01 | 6.93 | 79 | 3 | 7.67 | 7.60 |
| 5 | 158 | 6.98 | 6.83 | | 52 | 7.53 | 7.51 |
| 6 | 117 | 6.83 | 6.81 | | 103 | 5.65 | 5.78 |
| 7 | 143 | 6.78 | 6.75 | | 153 | 4.36 | 4.42 |
| 8 | 166 | 6.77 | 6.80 | | 201 | 4.29 | 4.11 |
| 9 | 58 | 6.89 | 6.89 | | 218 | 4.40 | 4.29 |
| 10 | 148 | 6.81 | 6.80 | 80 | 95 | 5.18 | 5.57 |
| 11 | 211 | 5.00 | 4.81 | 81 | 3 | 7.37 | 7.66 |
| 24 | 173 | 6.15 | 6.34 | | 236 | 4.99 | 6.99 |
| 25 | 159 | 6.11 | 6.18 | 82 | 52 | 6.75 | 7.34 |
| 26 | 227 | 5.18 | 4.56 | | 140 | 5.10 | 6.79 |
| 27 | 266 | 5.15 | 4.39 | | 202 | 4.71 | 4.83 |
| 28 | 245 | 5.14 | 4.41 | 83 | 2 | 6.46 | 7.45 |
| 29 | 240 | 5.11 | 4.52 | | 49 | 5.80 | 6.90 |
| 30 | 162 | 6.82 | 6.72 | 85 | 5.58 | 6.55 | |
| 31 | 134 | 7.03 | 6.87 | 84 | 51 | 7.21 | 6.74 |
| 32 | 59 | 7.16 | 7.09 | | 150 | 4.94 | 5.25 |
| | 2 | 7.75 | 7.46 | 85 | 4 | 6.73 | 7.58 |
| 33 | 15 | 7.62 | 7.46 | | 52 | 5.96 | 7.06 |
| 49 | 187 | 5.04 | 4.51 | | 248 | 4.39 | 4.87 |
| 50 | 180 | 4.66 | 4.22 | 86 | 51 | --- | 7.30 |
| | 2 | 7.14 | 7.38 | | 246 | --- | 4.25 |
| 69 | 200 | 4.83 | 4.31 | | 319 | --- | 4.14 |
| | 3 | 6.31 | 7.37 | 88 | 103 | --- | 5.53 |
| 70 | 233 | 4.36 | 4.37 | | 272 | --- | 4.12 |
| | 53 | 7.04 | 7.31 | 89 | 227 | --- | 4.13 |
| 71 | 278 | 4.30 | 4.18 | 90 | 2 | --- | 7.33 |
| | 51 | 7.20 | 7.37 | | 100 | --- | 6.68 |
| 72 | 151 | 5.06 | 5.31 | | 200 | --- | 4.13 |
| | 244 | 4.31 | 4.35 | 92 | 1 | --- | 6.93 |
| 73 | 2 | 7.26 | 7.33 | | 50 | --- | 6.94 |
| | 150 | 4.62 | 5.46 | | 100 | --- | 6.97 |
| 74 | 192 | 4.28 | 4.49 | | 149 | --- | 6.63 |
| | 100 | 4.89 | 4.83 | | 200 | --- | 4.81 |
| 75 | 149 | 4.80 | 4.06 | | 260 | --- | 4.46 |
| | 194 | 4.18 | 3.70 | | 277 | --- | 4.60 |
| 75 | 100 | 5.08 | 4.85 | 95 | 2 | --- | 7.30 |
| | 151 | 4.21 | 4.03 | | 53 | --- | 6.77 |
| | 186 | 4.19 | 4.24 | | 102 | --- | 6.76 |
| | 206 | 4.17 | 3.79 | | 121 | --- | 6.68 |
| | | | | | 151 | --- | 6.28 |

Table 6. Suspended matter concentration for water samples obtained on R/V OCEANUS Cruise 181, February 5-15, 1987. The average of four blanks run before, during and at the end of the cruise was 0.03 mg/L.

| Station | Water Depth (m) | Sample Depth (dbar) | Attenuation Coefficient m^{-1} | Suspended Matter (mg/L) | Station | Water Depth (m) | Sample Depth (dbar) | Attenuation Coefficient m^{-1} | Suspended Matter (mg/L) |
|---------|-----------------|---------------------|----------------------------------|-------------------------|---------|-----------------|---------------------|----------------------------------|-------------------------|
| 12 | 188 | 1.5 | 0.10 | 0.21 | 19 | 198 | 3.6 | 0.13 | 0.12 |
| | | 48.6 | 0.10 | 0.20 | | | 50.3 | 0.06 | 0.04 |
| | | 99.0 | 0.10 | 0.12 | | | 100.0 | 0.07 | 0.11 |
| | | 149.0 | 0.22 | 0.34 | | | 149.8 | 0.12 | 0.11 |
| | | 159.7 | 0.25 | 0.40 | | | 165.3 | 0.59 | 0.83 |
| | | 181.3 | 0.43 | 0.80 | | | 191.3 | 0.78 | 1.35 |
| 13 | 166 | 1.4 | 0.14 | 0.27 | 20 | 181 | 2.6 | 0.11 | 0.17 |
| | | 51.8 | 0.14 | 0.30 | | | 49.7 | 0.07 | 0.11 |
| | | 101.0 | 0.14 | 0.26 | | | 107.9 | 0.07 | 0.07 |
| | | 136.3 | 0.19 | 0.33 | | | 148.7 | 0.16 | 0.22 |
| | | 153.8 | 0.24 | 0.40 | | | 174.0 | 0.38 | 0.68 |
| 14 | 180 | 2.3 | 0.12 | 0.21 | 21 | 167 | 3.0 | 0.11 | 0.06 |
| | | 51.8 | 0.11 | 0.14 | | | 98.3 | 0.07 | 0.13 |
| | | 101.5 | 0.14 | 0.23 | | | 149.6 | 0.34 | 0.52 |
| | | 150.5 | 0.26 | 0.44 | | | 161.1 | 0.30 | 0.43 |
| | | | | | | 176.4 | 0.28 | 0.57 | |
| 15 | 170 | 50.5 | 0.12 | 1.10 | 22 | 145 | 3.0 | 0.11 | 0.05 |
| | | 100.4 | 0.11 | 0.16 | | | 50.0 | 0.09 | 0.09 |
| | | 139.8 | 0.11 | 0.10 | | | 77.4 | 0.11 | 0.15 |
| | | 165.0 | 0.24 | 0.56 | | | 151.2 | 0.41 | 0.68 |
| 16 | 200 | 1.1 | 0.11 | 0.18 | 23 | 91 | 2.2 | 0.11 | 0.14 |
| | | 50.1 | 0.11 | 0.18 | | | 50.2 | 0.13 | 0.15 |
| | | 97.3 | 0.10 | 0.05 | | | 60.5 | 0.12 | 0.17 |
| | | 147.3 | 0.12 | 0.15 | | | 86.0 | 0.14 | 0.15 |
| | | 168.0 | 0.34 | 0.50 | | | | | |
| | | 192.8 | 0.38 | 0.70 | | | | | |
| 17 | 173 | 1.1 | 0.10 | 0.17 | 33 | 17 | 1.6 | 0.58 | 0.83 |
| | | 49.6 | 0.10 | 0.19 | | | 13.4 | 0.48 | 0.78 |
| | | 94.0 | 0.13 | 0.13 | 34 | 25 | 2.0 | 0.62 | 0.90 |
| | | 142.9 | 0.19 | 0.31 | | | 20.6 | 0.48 | 0.88 |
| | | 167.9 | 0.26 | 0.43 | | | | | |
| 18 | 198 | 51.6 | 0.09 | 0.34 | 35 | 36 | 0.8 | 0.31 | 0.52 |
| | | 100.5 | 0.12 | 0.10 | | | 31.7 | 0.54 | 0.90 |
| | | 155.5 | 0.32 | 0.33 | 36 | 47 | 1.5 | 0.24 | 0.32 |
| | | 192.0 | 0.62 | 1.16 | | | 22.9 | 0.28 | 0.48 |
| | | | | | | | 38.7 | 0.32 | 0.57 |

Table 6. Suspended matter concentration for water samples obtained on R/V OCEANUS Cruise 181 (continued)

| Station | Water Depth (m) | Sample Depth (dbar) | Attenuation Coefficient m^{-1} | Suspended Matter (mg/L) | Station | Water Depth (m) | Sample Depth (dbar) | Attenuation Coefficient m^{-1} | Suspended Matter (mg/L) |
|---------|-----------------|---------------------|----------------------------------|-------------------------|---------|-----------------|---------------------|----------------------------------|-------------------------|
| 37 | 76 | 1.2 | 0.30 | 0.56 | 47 | 195 | 2.3 | 0.11 | 0.13 |
| | | 50.5 | 0.35 | 0.71 | | | 51.9 | 0.06 | 0.08 |
| | | 66.6 | 0.77 | 0.35 | | | 99.5 | 0.15 | 0.16 |
| 38 | 89 | 1.3 | 0.58 | 0.81 | 48 | 221 | 148.0 | 0.14 | 0.23 |
| | | 60.4 | 0.26 | 0.48 | | | 165.5 | 0.14 | 0.28 |
| | | 84.1 | 0.50 | 0.96 | | | 190.4 | 0.37 | HIT BOTTOM |
| | | | | | | | | | |
| 39 | 91 | 60.7 | 0.30 | 0.63 | 50 | 207 | 2.4 | 0.14 | 0.18 |
| | | 85.6 | 0.51 | 1.05 | | | 50.1 | 0.10 | 0.19 |
| | | | | | | | 100.4 | 0.11 | 0.18 |
| 40 | 31 | 0.9 | 0.38 | 0.57 | 66 | 188 | 150.5 | 0.16 | 0.24 |
| | | 26.9 | 0.27 | 0.45 | | | 191.4 | 0.25 | 0.41 |
| 41 | 67 | 1.6 | 0.22 | 0.34 | 67 | 197 | 214.0 | 0.44 | 0.92 |
| | | 45.5 | 0.23 | 0.38 | | | | | |
| 42 | 195 | 1.9 | 0.21 | 0.13 | 68 | 191 | 1.9 | 0.13 | 0.22 |
| | | 49.8 | 0.21 | 0.34 | | | 50.3 | 0.11 | 0.15 |
| | | 101.0 | 0.23 | 0.33 | | | 101.1 | 0.10 | 0.14 |
| | | 159.3 | 0.21 | 0.41 | | | 142.8 | 0.18 | 0.19 |
| | | 186.5 | 0.26 | 0.48 | | | 186.5 | 0.35 | 0.69 |
| 43 | 279 | 0.0 | 0.17 | 0.40 | 69 | 206 | 1.8 | 0.12 | 0.20 |
| | | 49.9 | 0.15 | 0.27 | | | 49.8 | 0.08 | 0.16 |
| | | 100.7 | 0.12 | 0.24 | | | 102.1 | 0.16 | 0.12 |
| | | 150.3 | 0.11 | 0.20 | | | 150.3 | 0.20 | 0.35 |
| | | 200.6 | 0.11 | 0.21 | | | 179.6 | 0.23 | 0.43 |
| | | 248.4 | 0.50 | 0.70 | | | 202.5 | 0.26 | 0.50 |
| 44 | 281 | 0.0 | 0.13 | 1.49 ^a | 70 | 242 | 0.0 | 0.10 | 0.24 |
| | | 49.9 | 0.14 | 0.19 | | | 0.0 | 0.10 | 0.11 |
| | | 99.9 | 0.13 | 0.21 | | | 0.0 | 0.10 | 0.18 |
| | | 152.8 | 0.18 | 0.28 | | | 191 | 0.10 | 0.18 |
| | | 200.4 | 0.26 | 0.37 | | | 206 | 0.12 | 0.18 |
| | | 244.9 | 0.55 | 0.88 | | | 199.9 | 0.82 | 1.53 |
| | | 271.5 | 0.71 | 1.26 | | | | | |
| 45 | 231 | 0.0 | 0.11 | 0.26 | 71 | 286 | 0.0 | 0.10 | 0.12 |
| | | 100.0 | 0.13 | 0.20 | | | 52.5 | 0.10 | 0.13 |
| | | 150.0 | 0.19 | 0.34 | | | 100.6 | 0.09 | 0.15 |
| | | 199.6 | 0.29 | 0.56 | | | 200.6 | 0.38 | 0.68 |
| | | 224.6 | 0.35 | 0.58 | | | 259.4 | 0.68 | 1.25 |
| | | | | | | | 277.8 | 0.87 | 1.79 |

Table 6. Suspended matter concentration for water samples obtained on R/V OCEANUS Cruise 181 (continued)

| Station | Water Depth (m) | Sample Depth (dbar) | Attenuation Coefficient m^{-1} | Suspended Matter (mg/L) | Station | Water Depth (m) | Sample Depth (dbar) | Attenuation Coefficient m^{-1} | Suspended Matter (mg/L) |
|---------|-----------------|---------------------|----------------------------------|-------------------------|---------|-----------------|---------------------|----------------------------------|-------------------------|
| 72 | 252 | 0.0 | 0.13 | 0.16 | 78 | 265 | 3.2 | 0.08 | 0.06 |
| | | 50.7 | 0.12 | 0.17 | | | 50.3 | 0.07 | 0.11 |
| | | 103.0 | 0.10 | 0.11 | | | 100.8 | 0.04 | 0.05 |
| | | 151.2 | 0.19 | 0.36 | | | 150.3 | 0.06 | 0.10 |
| | | 198.2 | 0.25 | 0.18 | | | 202.1 | 0.06 | 0.12 |
| | | 225.1 | 0.26 | 0.42 | | | 257.7 | 0.13 | 0.28 |
| | | 243.8 | 0.69 | 1.67 ^b | | | | | |
| 73 | 202 | 1.6 | 0.13 | 0.12 | 79 | 228 | 2.6 | 0.16 | 0.20 |
| | | 49.7 | 0.09 | 0.13 | | | 52.3 | 0.10 | 0.15 |
| | | 99.8 | 0.09 | 0.13 | | | 102.5 | 0.04 | 0.11 |
| | | 149.3 | 0.11 | 0.20 | | | 153.1 | 0.02 | 0.08 |
| | | 174.1 | 0.30 | 0.63 | | | 201.0 | 0.00 | 0.05 |
| | | 192.3 | 0.47 | 1.60 ^b | | | 217.6 | 0.01 | 0.09 |
| 74 | 200 | 2.1 | 0.12 | 0.15 | 80 | 103 | 2.0 | 0.10 | 0.12 |
| | | 50.7 | 0.06 | 0.17 | | | 51.3 | 0.10 | 0.12 |
| | | 99.5 | 0.12 | 0.14 | | | 75.5 | 0.09 | 0.11 |
| | | 148.9 | 0.26 | 0.39 | | | 95.4 | 0.06 | 0.11 |
| | | 169.7 | 0.36 | 0.58 | | | | | |
| 193.4 | 0.50 | 1.78 ^b | | | | | | | |
| 75 | 213 | 2.2 | 0.11 | 0.18 | 81 | 246 | 2.8 | 0.11 | 0.18 |
| | | 51.0 | 0.07 | 0.15 | | | 51.6 | 0.08 | 0.08 |
| | | 99.6 | 0.12 | 0.14 | | | 101.0 | 0.05 | 0.11 |
| | | 150.5 | 0.12 | 0.20 | | | 149.7 | 0.03 | 0.08 |
| | | 185.9 | 0.17 | 0.32 | | | 199.9 | 0.01 | 0.07 |
| | | 206.4 | 0.17 | 0.33 | | | 235.8 | 0.01 | 0.09 |
| 76 | 267 | 3.3 | 0.09 | 0.16 | 82 | 211 | 2.0 | 0.12 | 0.14 |
| | | 50.2 | 0.08 | 0.20 | | | 52.0 | 0.07 | 0.12 |
| | | 100.4 | 0.11 | 0.09 | | | 139.7 | 0.06 | 0.11 |
| | | 149.8 | 0.11 | 0.14 | | | 171.4 | 0.07 | 0.09 |
| | | 199.5 | 0.15 | 0.34 | | | 201.9 | 0.05 | 0.25 |
| 223.0 | 0.19 | 0.44 | | | | | | | |
| 77 | 225 | 2.8 | 0.09 | 0.11 | 83 | 93 | 2.0 | 0.12 | 0.12 |
| | | 51.3 | 0.08 | 0.26 | | | 49.3 | 0.08 | 0.16 |
| | | 100.6 | 0.06 | 0.15 | | | 85.1 | 0.08 | 0.10 |
| | | 150.5 | 0.09 | 0.12 | | | | | |
| | | 189.7 | 0.13 | 0.27 | | | | | |
| | | 213.5 | 0.14 | 0.38 | | | | | |
| 78 | 260 | 51.4 | 0.09 | 0.11 | 84 | 260 | 51.4 | 0.09 | 0.11 |
| | | 99.3 | 0.04 | 0.08 | | | 99.3 | 0.04 | 0.08 |
| | | 150.2 | 0.03 | 0.17 | | | 150.2 | 0.03 | 0.17 |
| | | 197.4 | 0.02 | 0.07 | | | 197.4 | 0.02 | 0.07 |
| | | 221.8 | 0.02 | 0.09 | | | 221.8 | 0.02 | 0.09 |
| 253.0 | 0.03 | 0.09 | 253.0 | 0.03 | 0.09 | | | | |

Table 6. Suspended matter concentration for water samples obtained on R/V OCEANUS Cruise 181 (continued)

| Station | Water Depth (m) | Sample Depth (dbar) | Attenuation Coefficient m^{-1} | Suspended Matter (mg/L) | Station | Water Depth (m) | Sample Depth (dbar) | Attenuation Coefficient m^{-1} | Suspended Matter (mg/L) | | |
|---------|-----------------|---------------------|----------------------------------|-------------------------|---------|-----------------|---------------------|----------------------------------|-------------------------|------|------|
| 85 | 335 | 4.4 | 0.11 | 0.14 | 92 | 283 | 0.0 | 0.11 | 0.16 | | |
| | | 51.8 | 0.07 | 0.08 | | | 50.2 | 0.11 | 0.16 | | |
| | | 247.8 | 0.04 | 0.09 | | | 99.8 | 0.11 | 0.16 | | |
| | | 298.2 | 0.06 | 0.22 | | | 149.2 | 0.19 | 0.20 | | |
| | | 325.8 | 0.08 | 0.13 | | | 199.8 | 0.15 | 0.26 | | |
| | | | | | | | 259.6 | 0.37 | 0.49 | | |
| 86/87 | 328 | 0.0 | 0.12 | 0.20 | | | 276.4 | 0.90 | 1 | | |
| | | 51.2 | 0.07 | 0.16 | | | | | | | |
| | | 104.0 | 0.05 | 0.05 | 93 | 261 | 0.0 | 0.14 | 0.18 | | |
| | | 149.6 | 0.17 | 0.06 | | | 49.5 | 0.12 | 0.17 | | |
| | | 197.8 | 0.26 | 0.10 | | | 99.8 | 0.10 | 0.16 | | |
| | | 246.0 | 0.25 | 0.17 | | | 149.9 | 0.28 | 0.51 | | |
| | | 295.4 | 0.25 | 0.24 | | | 203.8 | 0.15 | 0.23 | | |
| | | 312.2 | 0.29 | 0.68 | | | 235.9 | 0.49 | 0.69 | | |
| | | 319.0 | 0.29 | 0.84 | | | 253.5 | 0.79 | 1.17 | | |
| | | | | | | | | | | | |
| 88 | 280 | 1.9 | ---- | 0.12 | | | 94 | 231 | 1.0 | 0.14 | 0.13 |
| | | 53.3 | 0.05 | ---- | | | | | 51.2 | 0.12 | 0.11 |
| | | 102.9 | 0.06 | 0.07 | 125.3 | 0.14 | | | 0.20 | | |
| | | 152.8 | 0.10 | 0.13 | 149.9 | 0.08 | | | 0.13 | | |
| | | 201.8 | 0.13 | 0.20 | 200.6 | 0.24 | | | 0.26 | | |
| | | 248.7 | 0.19 | 0.35 | 224.7 | 0.92 | | | 1.15 | | |
| | | 271.6 | 0.20 | 0.32 | | | | | | | |
| | | | | | | | | | | | |
| 89 | 235 | 0.0 | 0.09 | 0.18 | 95 | 157 | 1.9 | 0.13 | 0.19 | | |
| | | 98.4 | 0.06 | 0.08 | | | 52.7 | 0.10 | 0.18 | | |
| | | 128.3 | 0.13 | 0.17 | | | 102.0 | 0.12 | 0.20 | | |
| | | 149.3 | 0.11 | 0.16 | | | 120.8 | 0.40 | 0.19 | | |
| | | 201.5 | 0.18 | 0.35 | | | 150.5 | 0.25 | 0.30 | | |
| | | 226.6 | 0.34 | 0.46 | | | | | | | |
| 90 | 208 | 1.9 | 0.13 | 0.14 | | | | | | | |
| | | 51.2 | 0.11 | 0.10 | | | | | | | |
| | | 100.1 | 0.08 | 0.12 | | | | | | | |
| | | 150.1 | 0.22 | 0.34 | | | | | | | |
| | | 175.0 | 0.24 | 0.33 | | | | | | | |
| | | 200.0 | 0.35 | 0.77 | | | | | | | |
| 91 | 282 | 0.0 | 0.13 | 0.10 | | | | | | | |
| | | 50.6 | 0.22 | 0.11 | | | | | | | |
| | | 103.0 | 0.37 | 0.59 | | | | | | | |
| | | 150.8 | 0.37 | 0.09 | | | | | | | |
| | | 198.5 | 0.21 | 0.59 | | | | | | | |
| 250.7 | 0.51 | 0.72 | | | | | | | | | |

^a euphasid

^b may have hit bottom

Table 7. Nutrient data for R/V Oceanus Cruise 181, February 5-15, 1987.

| Station | Sample Depth (dbar) | PO ₄ (μM) | NO ₃ +NO ₂ (μM) | S ₁ O ₄ (μM) |
|---------|------------------------|-------------------------|--|---------------------------------------|
| 1 | 2.7 | 0.87 | 9.86 | 10.33 |
| | 24.8 | 0.80 | 9.65 | 10.37 |
| 2 | 3.0 | 0.83 | 10.23 | 11.12 |
| | 35.6 | 0.87 | 10.47 | 11.02 |
| | 31.4 | 0.86 | 10.51 | 11.38 |
| 3 | 56.3 | 0.92 | 10.42 | 11.54 |
| 4 | 0.9 | 0.93 | 10.74 | 11.81 |
| | 49.6 | 0.90 | 10.53 | 11.59 |
| | 96.4 | 0.90 | 10.69 | 11.53 |
| | 122.9 | 0.97 | 11.01 | 11.57 |
| 5 | 50.4 | 0.96 | 10.76 | 11.30 |
| | 100.6 | 0.89 | 10.58 | 11.25 |
| | 136.8 | 0.96 | 10.73 | 11.26 |
| | 158.1 | 0.95 | 10.90 | 11.01 |
| 6 | 0.0 | 0.66 | 9.07 | 6.94 |
| | 49.1 | 0.75 | 10.06 | 9.55 |
| | 101.2 | 0.79 | 10.13 | 9.45 |
| | 117.7 | 0.84 | 10.29 | 9.39 |
| 7 | 2.6 | 0.74 | 10.49 | 9.69 |
| | 51.2 | 0.73 | 9.09 | 8.07 |
| | 101.3 | 0.71 | 8.16 | 7.71 |
| | 118.9 | 0.88 | 10.37 | 9.82 |
| | 143.3 | 0.67 | 8.05 | 7.47 |
| 8 | 1.5 | 0.63 | 7.58 | 7.18 |
| | 51.0 | 0.72 | 10.45 | 9.80 |
| | 101.6 | 0.82 | 9.62 | 8.79 |
| | 141.1 | 0.68 | 8.68 | 8.10 |
| | 166.3 | 0.87 | 10.47 | 9.64 |
| 9 | 2.3 | 0.84 | 9.93 | 8.93 |
| | 51.0 | 0.84 | 9.83 | 8.90 |
| | 58.4 | 0.78 | 9.67 | 9.10 |
| 10 | 2.7 | 0.89 | 9.74 | 9.49 |
| | 51.1 | 0.89 | 9.96 | 9.58 |
| | 100.9 | 0.84 | 0.08 | 9.53 |
| | 145.0 | 0.86 | 10.21 | 9.60 |
| 11 | 3.8 | 0.85 | 9.68 | 8.97 |
| | 49.7 | 0.82 | 9.38 | 8.83 |
| | 100.1 | 0.84 | 10.36 | 9.63 |
| | 150.4 | 0.92 | 10.54 | 9.74 |
| | 200.2 | 1.39 | 17.14 | 17.27 |
| 12 | 211.0 | 1.36 | 17.15 | 17.72 |
| | 2.0 | 0.89 | 10.65 | 10.04 |
| | 49.1 | 0.89 | 10.83 | 10.15 |
| | 99.5 | 0.82 | 10.83 | 10.42 |
| | 149.5 | 1.16 | 13.55 | 15.50 |
| | 160.2 | 1.20 | 14.02 | 15.90 |
| 13 | 181.8 | 1.28 | 15.37 | 16.66 |
| | 1.8 | 0.98 | 10.92 | 11.28 |
| | 52.2 | 0.98 | 11.25 | 11.44 |

Table 7. Nutrient data for R/V Oceanus Cruise 181, February 5-15, 1987.
(continued).

| Station | Sample Depth (dbar) | PO ₄ (μM) | NO ₃ +NO ₂ (μM) | S ₁ O ₄ (μM) |
|---------|------------------------|-------------------------|--|---------------------------------------|
| 13 | 101.4 | 1.00 | 11.53 | 11.55 |
| | 136.7 | 1.06 | 12.28 | 12.57 |
| | 154.2 | 1.18 | 14.13 | 15.53 |
| 14 | 2.8 | 0.87 | 11.16 | 10.73 |
| | 52.3 | 0.92 | 10.95 | 10.81 |
| | 102.0 | 0.98 | 11.38 | 11.32 |
| | 151.0 | 1.18 | 13.52 | 15.28 |
| | 176.9 | 1.17 | 13.71 | 15.33 |
| 15 | 1.9 | 0.68 | 8.45 | 8.21 |
| | 50.9 | 0.96 | 11.29 | 11.19 |
| | 100.8 | 0.90 | 11.15 | 11.04 |
| | 140.2 | 0.99 | 11.96 | 11.85 |
| | 165.4 | 1.24 | 14.78 | 16.85 |
| 16 | 1.6 | 0.87 | 10.96 | 10.79 |
| | 50.6 | 0.90 | 11.11 | 10.82 |
| | 97.8 | 0.93 | 11.11 | 10.87 |
| | 147.8 | 0.89 | 11.08 | 10.70 |
| | 168.5 | 1.25 | 15.19 | 17.88 |
| | 193.3 | 1.31 | 15.83 | 19.12 |
| 17 | 1.5 | 0.76 | 9.66 | 8.87 |
| | 50.0 | 0.94 | 10.52 | 9.88 |
| | 94.4 | 1.05 | 12.49 | 12.55 |
| | 143.3 | 1.32 | 15.33 | 17.83 |
| | 168.3 | 1.41 | 16.35 | 19.40 |
| 18 | 52.1 | 0.77 | 8.82 | 8.20 |
| | 101.0 | 0.78 | 9.01 | 7.96 |
| | 150.8 | 1.25 | 15.32 | 17.13 |
| | 192.5 | 1.32 | 16.06 | 18.65 |
| 19 | 4.0 | 0.81 | 8.19 | 7.79 |
| | 50.7 | 0.77 | 9.93 | 8.92 |
| | 100.3 | 0.90 | 10.84 | 9.78 |
| | 150.1 | 1.14 | 14.57 | 13.72 |
| | 165.7 | 1.26 | 15.44 | 17.34 |
| | 191.0 | 1.65 | 19.65 | 19.89 |
| 20 | 3.0 | 0.65 | 7.62 | 7.46 |
| | 50.1 | 0.76 | 9.09 | 8.49 |
| | 108.3 | 1.01 | 12.03 | 10.79 |
| | 149.1 | 1.11 | 13.96 | 13.60 |
| | 174.4 | 1.28 | 15.46 | 17.12 |
| 21 | 3.5 | 0.75 | 8.22 | 7.72 |
| | 98.8 | 0.80 | 10.33 | 9.47 |
| | 150.1 | 1.20 | 14.86 | 15.71 |
| | 161.7 | 1.19 | 15.06 | 16.24 |
| 22 | 3.5 | 0.70 | 8.35 | 7.92 |
| | 50.5 | 0.75 | 10.19 | 9.29 |
| | 77.9 | 0.96 | 11.51 | 10.65 |
| | 151.7 | 1.16 | 14.49 | 15.30 |
| 23 | 2.6 | 0.79 | 8.87 | 8.04 |

Table 7. Nutrient data for R/V Oceanus Cruise 181, February 5-15, 1987.
(continued).

| Station | Sample Depth (dbar) | PO ₄ (μM) | NO ₃ +NO ₂ (μM) | S ₁ O ₄ (μM) |
|---------|------------------------|-------------------------|--|---------------------------------------|
| 23 | 50.6 | 0.84 | 9.42 | 8.48 |
| | 60.9 | 0.81 | 9.14 | 8.55 |
| | 86.4 | 0.88 | 9.96 | 9.38 |
| 24 | 1.1 | 0.80 | 8.72 | 7.90 |
| | 50.7 | 0.83 | 9.89 | 8.97 |
| | 100.8 | 0.89 | 9.99 | 9.58 |
| | 100.8 | 0.90 | 10.09 | 9.73 |
| | 150.1 | 0.96 | 10.89 | 11.04 |
| 25 | 172.9 | 0.93 | 11.17 | 11.22 |
| | 2.0 | 0.85 | 9.61 | 8.98 |
| | 50.3 | 0.90 | 0.61 | 8.92 |
| | 100.7 | 0.93 | 10.32 | 9.32 |
| | 135.3 | 0.95 | 11.01 | 0.70 |
| 26 | 159.8 | 1.02 | 11.70 | 12.30 |
| | 1.0 | 0.78 | 9.44 | 8.48 |
| | 51.6 | 0.81 | 9.45 | 8.50 |
| | 101.4 | 0.95 | 10.86 | 10.55 |
| | 151.8 | 1.15 | 13.17 | 13.31 |
| 27 | 201.3 | 1.48 | 17.32 | 20.81 |
| | 227.0 | 1.49 | 17.37 | 21.60 |
| | 1.6 | 0.84 | 10.84 | 9.96 |
| | 51.8 | 0.78 | 11.41 | 10.38 |
| | 101.9 | 0.83 | 11.73 | 10.95 |
| | 151.7 | 0.78 | 11.64 | 11.32 |
| | 201.9 | 1.47 | 17.52 | 21.17 |
| | 251.6 | 1.52 | 17.87 | 22.45 |
| 28 | 266.7 | 1.53 | 17.85 | 23.32 |
| | 1.7 | 0.70 | 10.64 | 9.53 |
| | 51.8 | 0.77 | 10.91 | 9.63 |
| | 101.5 | 0.68 | 10.92 | 9.88 |
| | 151.0 | 0.98 | 14.09 | 14.49 |
| | 200.6 | 1.06 | 17.88 | 19.39 |
| | 225.9 | 1.28 | 18.69 | 22.27 |
| 29 | 245.3 | 1.29 | 18.61 | 23.13 |
| | 2.4 | 0.65 | 9.90 | 9.36 |
| | 49.3 | 0.61 | 9.49 | 9.26 |
| 30 | 100.4 | 0.74 | 10.88 | 9.96 |
| | 2.4 | 0.68 | 10.61 | 11.00 |
| | 50.6 | 0.72 | 10.74 | 10.99 |
| | 99.7 | 0.61 | 10.41 | 11.16 |
| | 150.3 | 0.70 | 10.67 | 10.55 |
| 31 | 162.0 | 0.75 | 11.07 | 11.06 |
| | 1.8 | 0.68 | 10.37 | 11.05 |
| | 50.8 | 0.68 | 10.31 | 11.21 |
| | 100.8 | 0.68 | 10.41 | 11.07 |
| 32 | 134.4 | 0.69 | 10.36 | 11.14 |
| | 1.9 | 0.70 | 9.70 | 10.66 |
| | 59.0 | 0.72 | 0.36 | 11.71 |

Table 7. Nutrient data for R/V Oceanus Cruise 181, February 5-15, 1987.
(continued).

| Station | Sample Depth (dbar) | PO ₄ (μM) | NO ₃ +NO ₂ (μM) | S ₁ O ₄ (μM) |
|---------|------------------------|-------------------------|--|---------------------------------------|
| 33 | 1.7 | 0.89 | 10.42 | 12.19 |
| | 13.5 | 0.79 | 10.38 | 11.84 |
| 34 | 2.2 | 1.03 | 10.81 | 12.56 |
| | 20.8 | 0.83 | 10.52 | 12.17 |
| 35 | 1.0 | 0.75 | 10.14 | 12.07 |
| | 31.9 | 0.76 | 10.41 | 12.58 |
| 36 | 1.7 | 0.73 | 10.41 | 12.10 |
| | 23.1 | 0.73 | 10.48 | 12.40 |
| | 38.9 | 0.68 | 10.54 | 12.79 |
| 37 | 1.4 | 0.75 | 10.46 | 12.44 |
| | 50.7 | 0.69 | 10.50 | 12.75 |
| | 66.8 | 0.78 | 10.36 | 13.49 |
| 38 | 1.5 | 0.76 | 10.75 | 14.51 |
| | 51.0 | 0.64 | 10.59 | 12.64 |
| 38 | 60.6 | 0.75 | 10.43 | 12.67 |
| | 84.3 | 0.77 | 10.81 | 13.35 |
| | 84.3 | 0.77 | 10.81 | 13.35 |
| 39 | 1.4 | 0.72 | 10.74 | 13.51 |
| | 50.7 | 0.71 | 10.67 | 12.61 |
| | 60.9 | 0.61 | 10.40 | 12.50 |
| 40 | 85.8 | 0.60 | 10.42 | 12.85 |
| | 1.0 | 0.60 | 10.38 | 12.96 |
| | 27.0 | 0.62 | 10.28 | 11.81 |
| 41 | 1.7 | 0.55 | 8.49 | 9.77 |
| | 45.6 | 0.65 | 10.53 | 11.79 |
| | 62.3 | 0.68 | 10.47 | 11.83 |
| 42 | 2.2 | 0.56 | 9.09 | 10.93 |
| | 50.1 | 0.55 | 9.88 | 11.41 |
| | 101.3 | 0.55 | 9.12 | 10.21 |
| | 159.6 | 0.57 | 9.64 | 10.36 |
| | 186.8 | 0.60 | 10.86 | 11.49 |
| | 186.8 | 0.60 | 10.86 | 11.49 |
| 43 | 1.9 | 0.70 | 10.09 | 10.98 |
| | 50.1 | 0.60 | 9.43 | 9.85 |
| | 100.9 | 0.71 | 10.50 | 10.98 |
| | 150.5 | 0.62 | 9.96 | 10.57 |
| | 200.8 | 1.07 | 15.63 | 18.04 |
| | 248.6 | 1.11 | 16.45 | 22.07 |
| | 271.3 | 1.24 | 17.96 | 25.47 |
| 44 | 1.6 | 0.76 | 11.25 | 12.06 |
| | 50.7 | 0.57 | 11.11 | 11.96 |
| | 100.2 | 0.74 | 11.00 | 11.93 |
| | 153.1 | 0.79 | 12.77 | 14.33 |
| | 201.1 | 1.29 | 18.14 | 23.07 |
| | 245.3 | 1.30 | 18.05 | 24.63 |
| | 271.8 | 1.25 | 17.81 | 25.19 |
| 45 | 0.2 | 0.58 | 9.11 | 9.04 |
| | 100.3 | 0.73 | 11.30 | 11.38 |
| | 150.2 | 0.85 | 13.09 | 14.89 |
| | 199.9 | 1.13 | 16.58 | 21.24 |

Table 7. Nutrient data for R/V Oceanus Cruise 181, February 5-15, 1987.
(continued).

| Station | Sample Depth (dbar) | PO ₄ (μM) | NO ₃ +NO ₂ (μM) | S ₁ O ₄ (μM) |
|---------|------------------------|-------------------------|--|---------------------------------------|
| 45 | 224.9 | 1.18 | 16.97 | 22.28 |
| 46 | 2.3 | 0.55 | 8.51 | 8.33 |
| | 51.5 | 0.60 | 9.95 | 9.64 |
| | 100.4 | 0.65 | 10.78 | 10.44 |
| | 149.4 | 0.95 | 15.14 | 16.06 |
| | 173.9 | 0.96 | 15.41 | 16.20 |
| | 199.3 | 1.04 | 16.17 | 19.02 |
| 48 | 2.7 | 0.76 | 6.97 | 6.74 |
| | 50.4 | 0.70 | 10.12 | 9.78 |
| | 100.7 | 0.79 | 9.95 | 10.39 |
| | 150.8 | 0.93 | 12.26 | 11.95 |
| | 191.7 | 0.78 | 14.68 | 14.51 |
| | 214.3 | 0.95 | 16.61 | 17.04 |
| 49 | 2.4 | 0.71 | 7.65 | 7.87 |
| | 50.8 | 0.75 | 8.81 | 8.81 |
| | 101.6 | 0.73 | 11.42 | 11.75 |
| | 143.3 | 1.01 | 12.07 | 13.92 |
| | 187.0 | 1.35 | 16.33 | 20.19 |
| 50 | 2.1 | 0.78 | 8.90 | 9.74 |
| | 50.1 | 0.86 | 9.89 | 9.58 |
| | 102.4 | 0.97 | 11.30 | 11.48 |
| | 150.6 | 1.25 | 16.15 | 17.46 |
| | 179.9 | 1.10 | 17.92 | 16.48 |
| | 202.8 | 1.38 | 18.32 | 16.35 |
| 66 | 1.2 | 0.83 | 8.15 | 8.08 |
| 67 | 1.4 | 0.78 | 7.28 | 7.59 |
| 68 | 1.2 | 0.79 | 8.10 | 8.08 |
| 69 | 2.5 | 0.55 | 6.82 | 7.57 |
| | 200.1 | 1.31 | 16.64 | 19.63 |
| 71 | 2.2 | 0.55 | 6.70 | 7.13 |
| | 52.7 | 0.72 | 9.66 | 8.30 |
| | 200.8 | 1.23 | 16.52 | 18.06 |
| | 259.6 | 1.27 | 16.99 | 19.28 |
| | 278.0 | 1.21 | 17.24 | 19.52 |
| 72 | 2.6 | 0.63 | 6.21 | 7.77 |
| | 50.9 | 0.41 | 6.28 | 6.93 |
| | 103.2 | 0.62 | 9.99 | 9.92 |
| | 151.5 | 0.82 | 13.96 | 14.42 |
| | 198.4 | 0.90 | 15.63 | 16.73 |
| | 225.3 | 1.24 | 16.22 | 17.58 |
| | 244.0 | 1.16 | 16.73 | 19.73 |
| 73 | 1.8 | 0.60 | 6.40 | 7.00 |
| | 49.9 | 0.65 | 6.75 | 7.10 |
| | 100.0 | 0.93 | 12.67 | 11.15 |
| | 149.5 | 1.13 | 14.51 | 13.39 |
| | 174.3 | 1.26 | 16.32 | 16.36 |
| | 192.5 | 1.27 | 16.60 | 15.58 |
| 74 | 2.3 | 0.52 | 6.52 | 7.11 |

Table 7. Nutrient data for R/V Oceanus Cruise 181, February 5-15, 1987.
(continued).

| Station | Sample Depth (dbar) | PO ₄ (μM) | NO ₃ +NO ₂ (μM) | S ₁ O ₄ (μM) |
|---------|------------------------|-------------------------|--|---------------------------------------|
| 74 | 50.9 | 0.60 | 7.48 | 7.46 |
| | 99.7 | 1.03 | 14.07 | 13.87 |
| | 149.1 | 1.19 | 15.47 | 15.84 |
| | 169.9 | 0.99 | 16.72 | 14.56 |
| | 193.6 | 1.32 | 17.73 | 14.58 |
| 75 | 2.3 | 0.62 | 6.62 | 7.13 |
| | 51.1 | 0.67 | 8.36 | 8.27 |
| | 99.7 | 0.97 | 13.15 | 13.06 |
| | 150.6 | 1.03 | 17.50 | 14.19 |
| | 186.0 | 1.22 | 18.08 | 14.46 |
| | 206.5 | 1.22 | 17.99 | 14.91 |
| 76 | 3.5 | 0.60 | 8.79 | 8.04 |
| | 100.6 | 0.83 | 11.57 | 10.92 |
| | 150.0 | 1.00 | 15.83 | 13.65 |
| | 199.7 | 1.24 | 18.69 | 14.72 |
| | 223.2 | 1.21 | 19.07 | 15.28 |
| 77 | 3.0 | 0.64 | 8.36 | 8.38 |
| | 51.5 | 0.51 | 8.27 | 8.23 |
| | 100.8 | 0.70 | 10.90 | 10.33 |
| | 150.7 | 1.21 | 18.55 | 14.97 |
| | 189.9 | 1.20 | 18.82 | 14.85 |
| | 213.7 | 1.15 | 17.95 | 14.23 |
| 78 | 3.4 | 0.68 | 7.20 | 7.60 |
| | 50.4 | 0.75 | 8.22 | 8.24 |
| | 101.0 | 0.96 | 11.79 | 14.61 |
| | 150.6 | 1.25 | 17.47 | 10.64 |
| | 202.4 | 1.24 | 18.87 | 14.15 |
| | 257.9 | 1.24 | 19.65 | 15.03 |
| 79 | 2.6 | 0.61 | 5.43 | 6.40 |
| | 52.3 | 0.50 | 5.51 | 6.28 |
| | 102.5 | 0.73 | 10.72 | 9.47 |
| | 153.1 | 1.13 | 16.66 | 12.14 |
| | 201.0 | 1.51 | 21.30 | 14.97 |
| | 217.6 | 1.57 | 21.00 | 15.08 |
| 80 | 2.0 | 0.58 | 5.38 | 6.55 |
| | 51.3 | 0.57 | 5.43 | 6.64 |
| | 75.5 | 0.63 | 6.66 | 7.06 |
| | 95.4 | 0.93 | 12.16 | 10.00 |
| 81 | 2.9 | 0.55 | 5.52 | 6.50 |
| | 51.7 | 0.50 | 6.00 | 5.97 |
| | 101.1 | 0.73 | 9.59 | 8.25 |
| | 149.8 | 1.19 | 16.87 | 13.47 |
| | 200.0 | 1.33 | 19.02 | 14.31 |
| | 235.9 | 1.36 | 19.50 | 14.41 |
| 82 | 2.1 | 0.55 | 5.82 | 10.24 |
| | 52.1 | 0.46 | 6.54 | 6.61 |
| | 139.8 | 1.04 | 13.91 | 12.62 |
| | 171.5 | 1.16 | 16.68 | 13.64 |

Table 7. Nutrient data for R/V Oceanus Cruise 181, February 5-15, 1987.
(continued).

| Station | Sample Depth (dbar) | PO ₄ (μM) | NO ₃ +NO ₂ (μM) | S ₁ O ₄ (μM) |
|---------|------------------------|-------------------------|--|---------------------------------------|
| 82 | 202.0 | 1.38 | 19.94 | 14.55 |
| 83 | 2.1 | 0.43 | 5.52 | 6.10 |
| | 49.4 | 0.74 | 9.31 | 8.96 |
| 84 | 85.2 | 0.90 | 11.09 | 10.17 |
| | 2.1 | 0.53 | 5.17 | 6.36 |
| | 51.4 | 0.52 | 5.25 | 5.98 |
| | 99.3 | 0.75 | 10.12 | 9.57 |
| | 150.2 | 0.83 | 12.16 | 10.45 |
| | 197.4 | 1.22 | 18.73 | 13.78 |
| | 221.8 | 1.24 | 18.54 | 13.86 |
| | 253.0 | 1.31 | 19.38 | 14.32 |
| 85 | 4.4 | 0.55 | 5.40 | 6.23 |
| | 51.8 | 0.66 | 8.99 | 8.88 |
| | 247.8 | 1.38 | 19.39 | 14.24 |
| | 298.2 | 1.46 | 20.47 | 14.66 |
| | 325.8 | 1.54 | 20.39 | 14.74 |
| 86 | 2.2 | 0.57 | 5.16 | 6.19 |
| | 51.2 | 0.65 | 7.33 | 7.69 |
| | 149.6 | 1.16 | 16.08 | 12.20 |
| | 246.0 | 1.31 | 18.52 | 13.64 |
| | 295.4 | 1.34 | 18.81 | 14.48 |
| 88 | 319.0 | 1.49 | 19.54 | 14.92 |
| | 2.0 | 0.68 | 7.88 | 7.82 |
| | 53.4 | 0.71 | 9.40 | 8.85 |
| | 103.0 | 0.97 | 13.06 | 12.43 |
| | 152.9 | 1.18 | 16.00 | 15.00 |
| | 201.9 | 1.35 | 19.37 | 14.82 |
| | 248.8 | 1.41 | 19.76 | 14.86 |
| 89 | 271.7 | 1.45 | 19.50 | 14.93 |
| | 2.0 | 0.65 | 8.07 | 7.68 |
| | 98.5 | 0.74 | 11.44 | 11.19 |
| | 128.4 | 1.24 | 15.98 | 16.65 |
| | 149.4 | 1.14 | 16.49 | 14.30 |
| | 201.6 | 1.29 | 18.46 | 14.70 |
| 90 | 226.7 | 1.36 | 18.94 | 15.20 |
| | 2.1 | 0.67 | 7.70 | 7.94 |
| | 51.4 | 0.68 | 8.81 | 9.06 |
| | 100.3 | 0.84 | 10.84 | 10.93 |
| | 150.3 | 1.25 | 15.83 | 19.10 |
| | 175.2 | 1.34 | 17.06 | 18.77 |
| 91 | 200.3 | 1.34 | 18.66 | 16.59 |
| | 2.0 | 0.82 | 8.87 | 8.89 |
| | 51.5 | 0.93 | 9.00 | 11.00 |
| | 103.0 | 0.99 | 10.53 | 11.17 |
| | 198.5 | 1.65 | 15.98 | 23.72 |
| 92 | 250.7 | 1.49 | 17.64 | 26.31 |
| | 1.7 | 0.92 | 9.90 | 9.91 |
| | 50.3 | 0.88 | 9.64 | 9.84 |

Table 7. Nutrient data for R/V Oceanus Cruise 181, February 5-15, 1987.
(continued).

| Station | Sample Depth (dbar) | PO ₄ (μM) | NO ₃ +NO ₂ (μM) | S ₁ O ₄ (μM) |
|---------|------------------------|-------------------------|--|---------------------------------------|
| 92 | 99.9 | 0.93 | 9.84 | 9.81 |
| | 149.3 | 1.08 | 11.13 | 11.39 |
| | 199.9 | 1.59 | 16.51 | 20.65 |
| | 259.7 | 1.73 | 18.67 | 23.52 |
| | 276.5 | 1.78 | 17.76 | 26.14 |
| 93 | 2.2 | 0.78 | 8.04 | 8.19 |
| | 49.8 | 0.70 | 8.70 | 8.61 |
| | 100.1 | 0.80 | 9.78 | 9.36 |
| | 150.2 | 1.08 | 11.05 | 12.03 |
| | 204.1 | 1.57 | 15.99 | 19.67 |
| | 235.2 | 1.64 | 17.31 | 23.15 |
| | 253.8 | 1.65 | 17.95 | 25.13 |
| 94 | 1.2 | 0.87 | 8.99 | 7.90 |
| | 51.4 | 0.78 | 8.65 | 8.61 |
| | 125.5 | 0.90 | 10.05 | 10.50 |
| | 151.1 | 1.02 | 10.94 | 11.18 |
| | 200.8 | 1.28 | 14.17 | 16.03 |
| | 224.9 | 1.57 | 17.35 | 24.42 |
| 95 | 1.9 | 0.73 | 7.76 | 7.62 |
| | 52.7 | 0.88 | 9.71 | 9.85 |
| | 120.8 | 0.88 | 10.11 | 10.77 |
| | 150.5 | 1.17 | 12.81 | 13.20 |

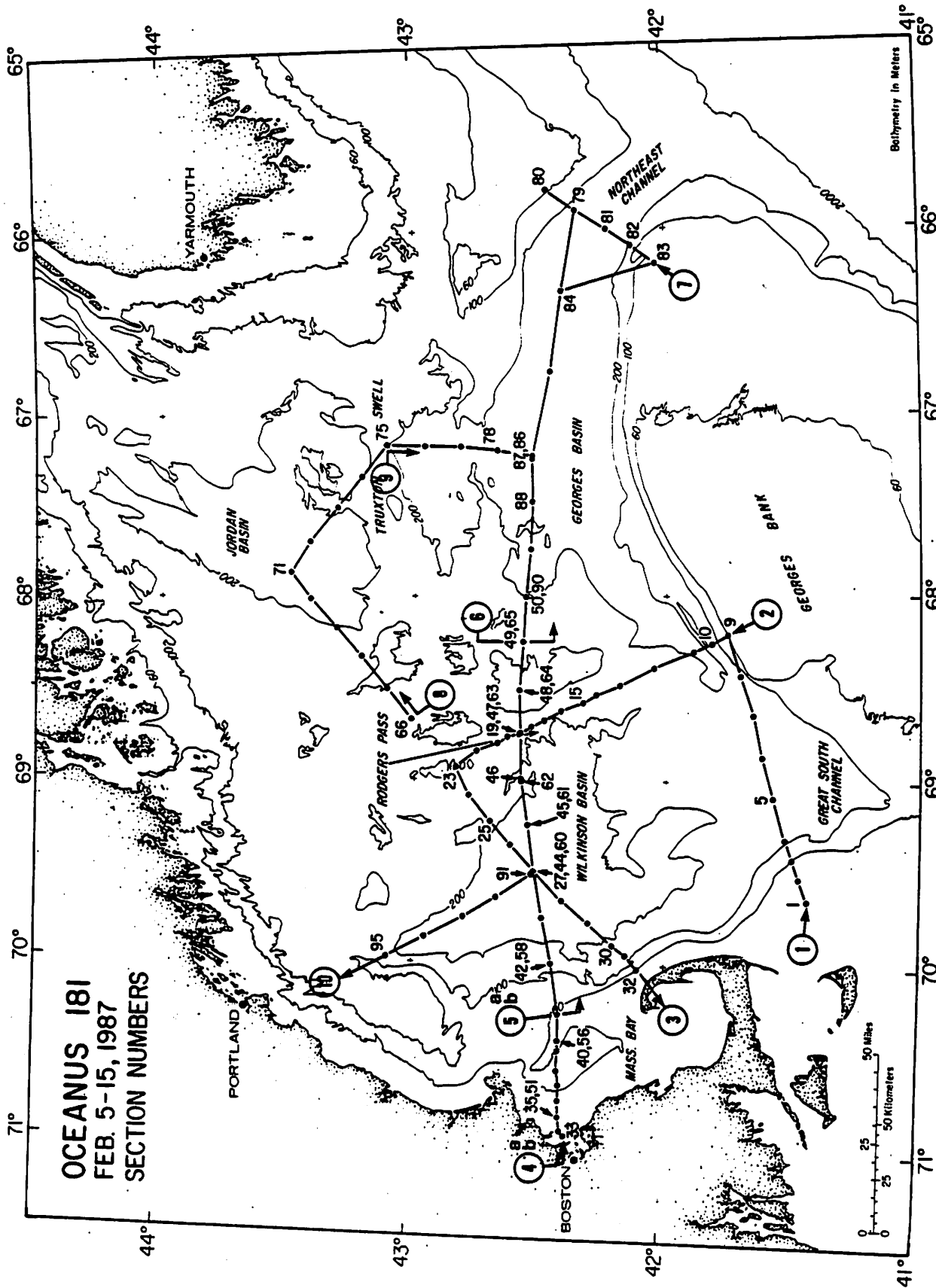
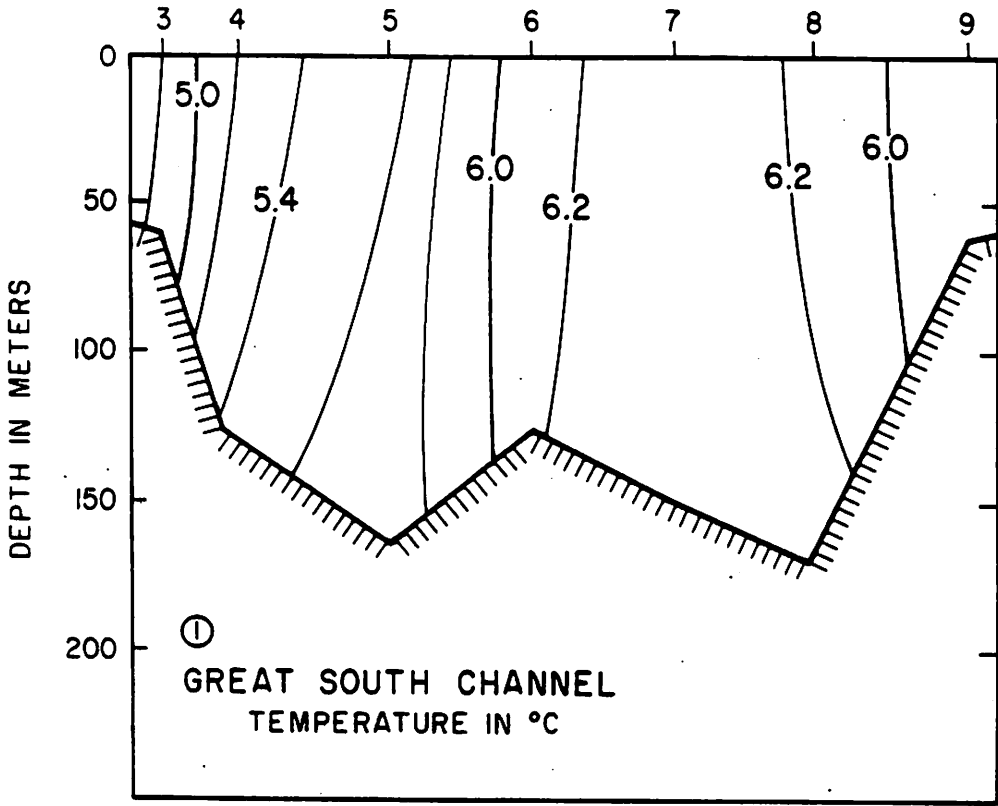
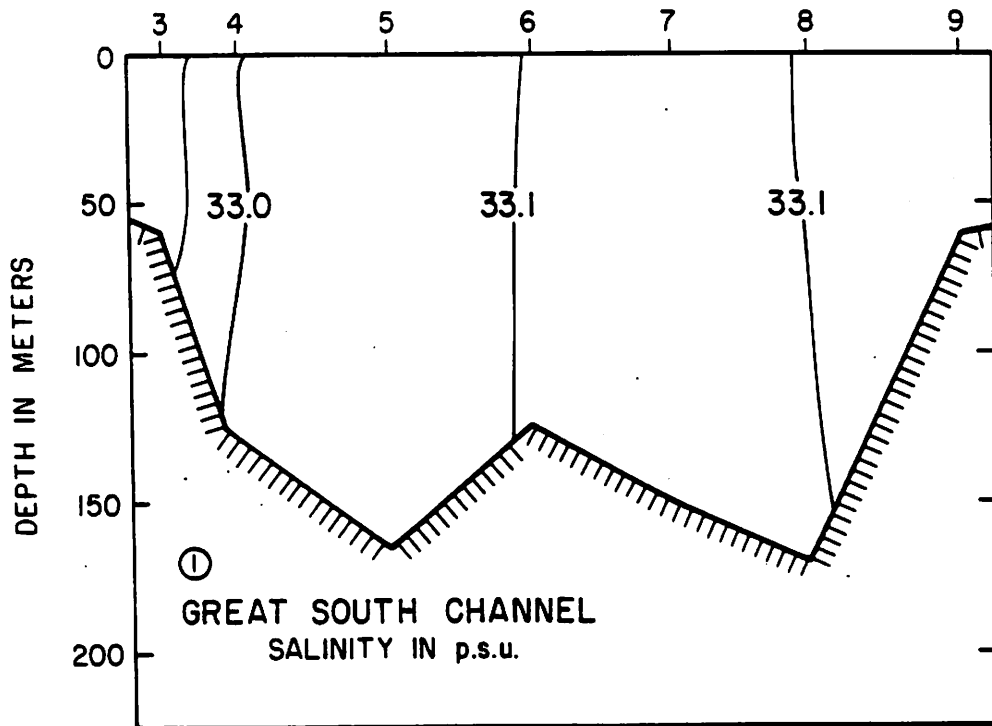


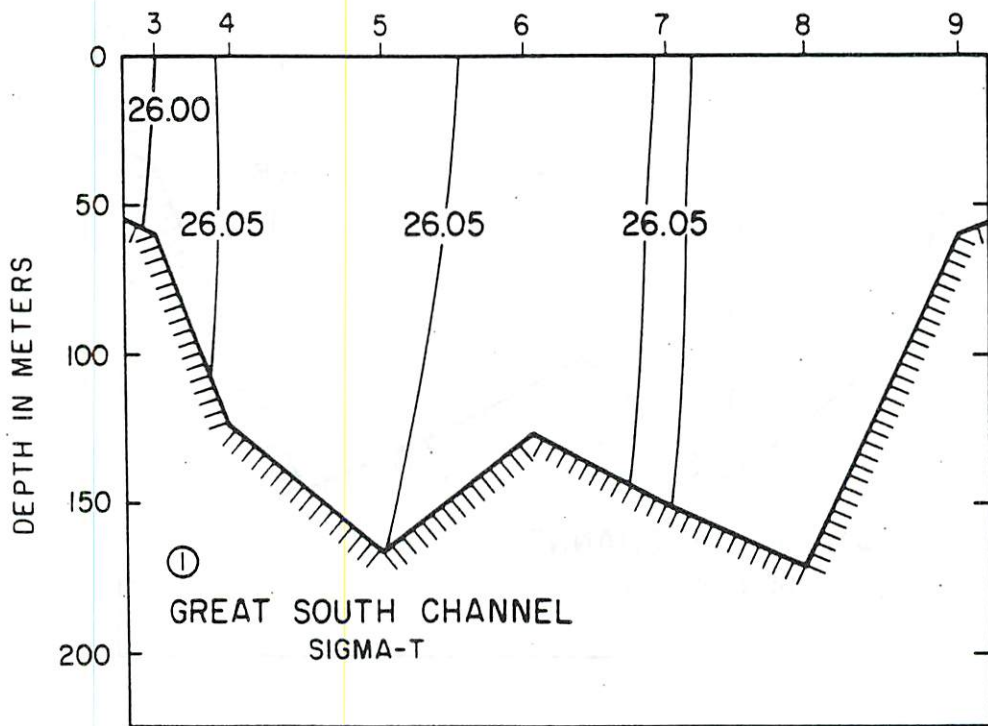
Figure 1. Location of stations in Massachusetts Bay and the Gulf of Maine occupied by the R/V OCEANUS Cruise 181, February 5-15, 1987. The circled number identifies the sections shown in figures 2 to 11.

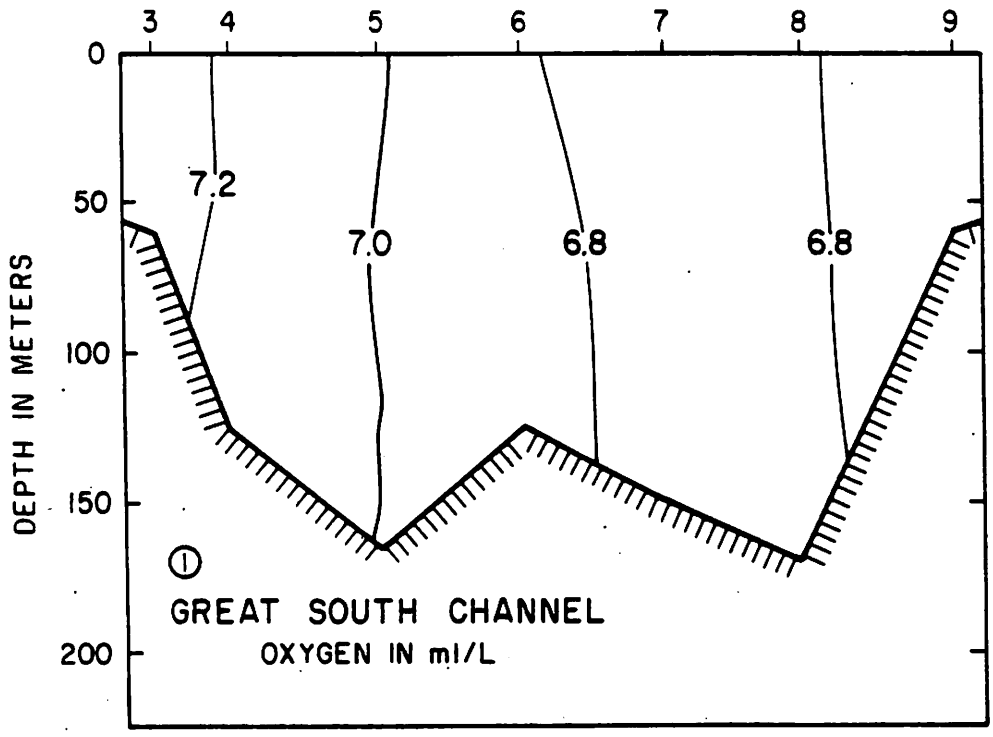
Vertical sections

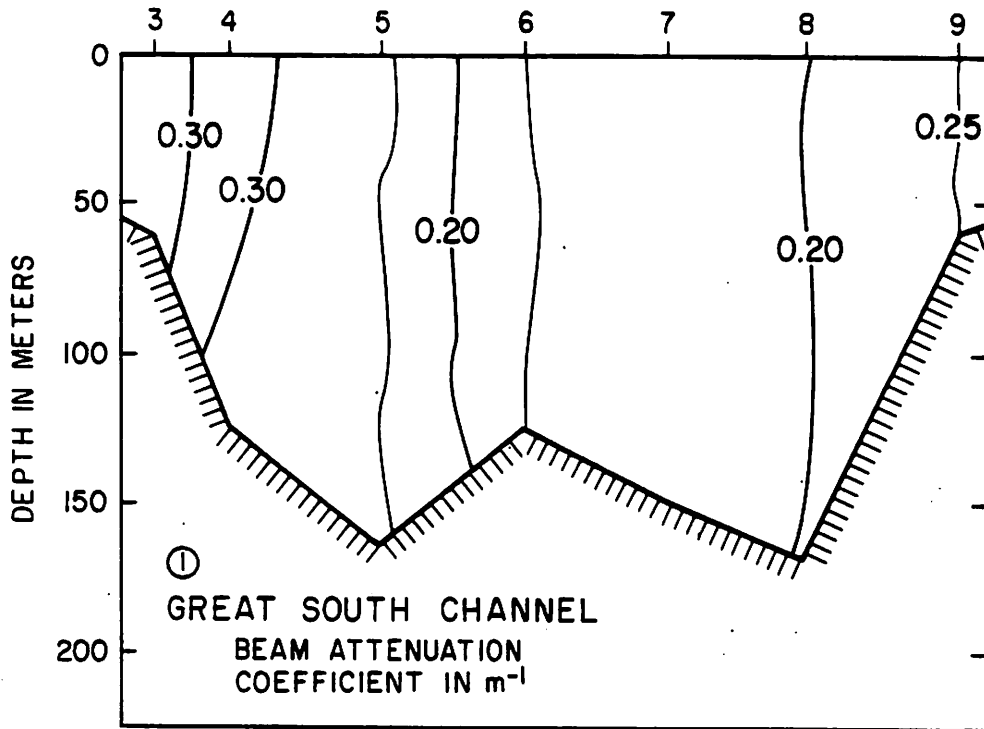
The station numbers are shown across the top of each section and the bathymetry for most sections is defined only by the depth at each station. The vertical and horizontal scales are the same for each section except section 4 in relatively shallow Massachusetts Bay where the vertical scale has been exaggerated. The contour intervals are the same for each section (0.2°C for temperature, 0.2 psu for salinity, 0.1 for sigma-t, 0.2 ml/l for oxygen and 0.05 m⁻¹ for attenuation coefficient). Since the vertical scale in section 4 was changed the contour intervals for section 4 were also changed to show more detail. All sections were constructed by plotting the crossing of the isotherm, etc. and then contouring by hand.

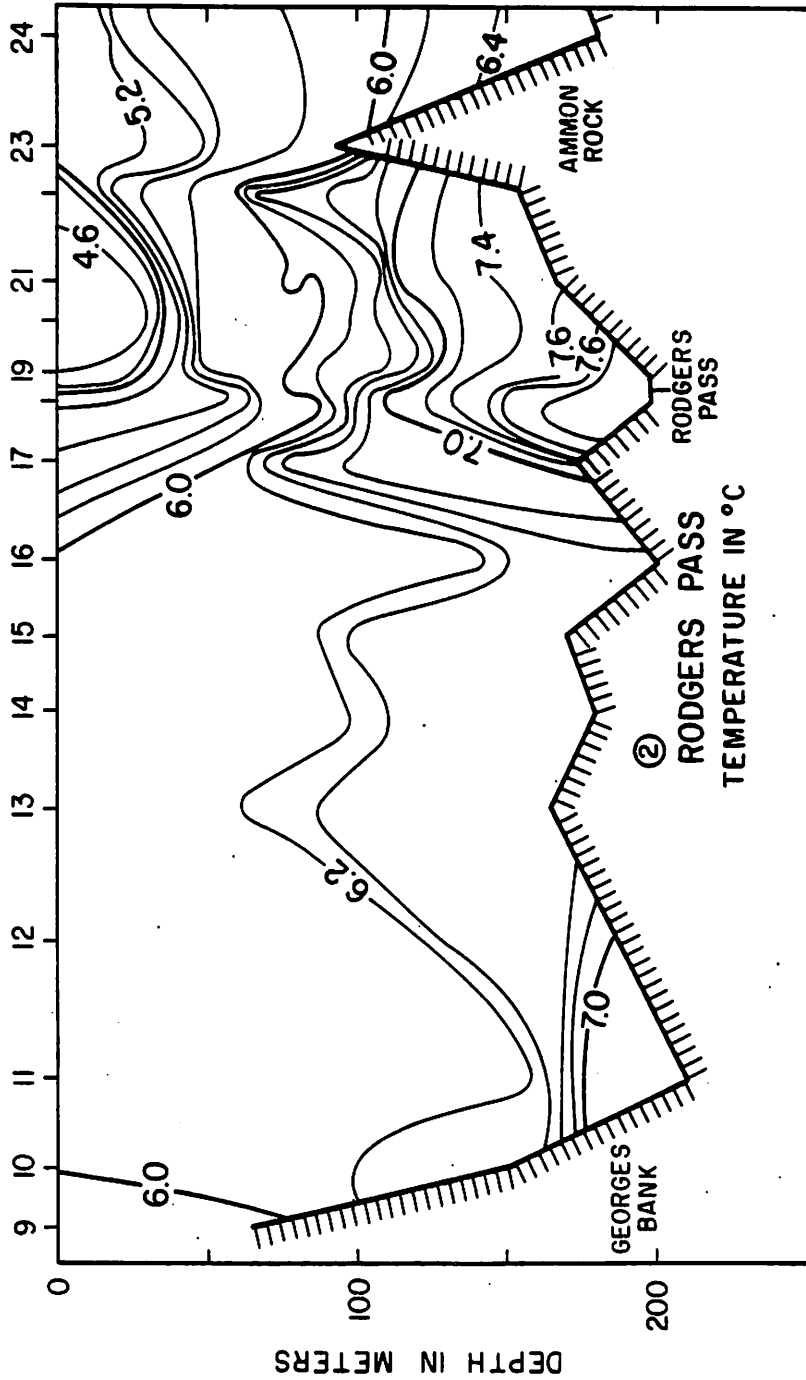


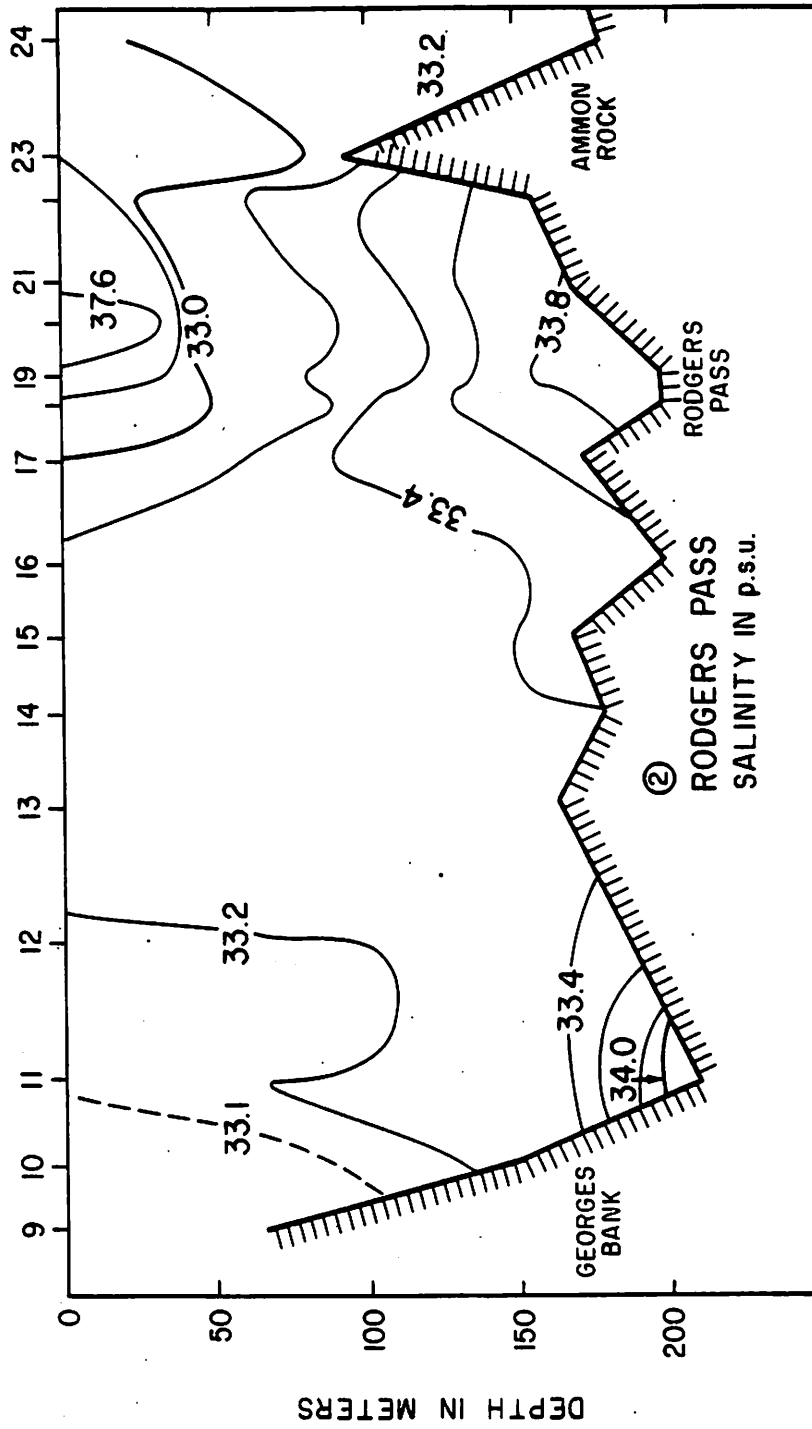


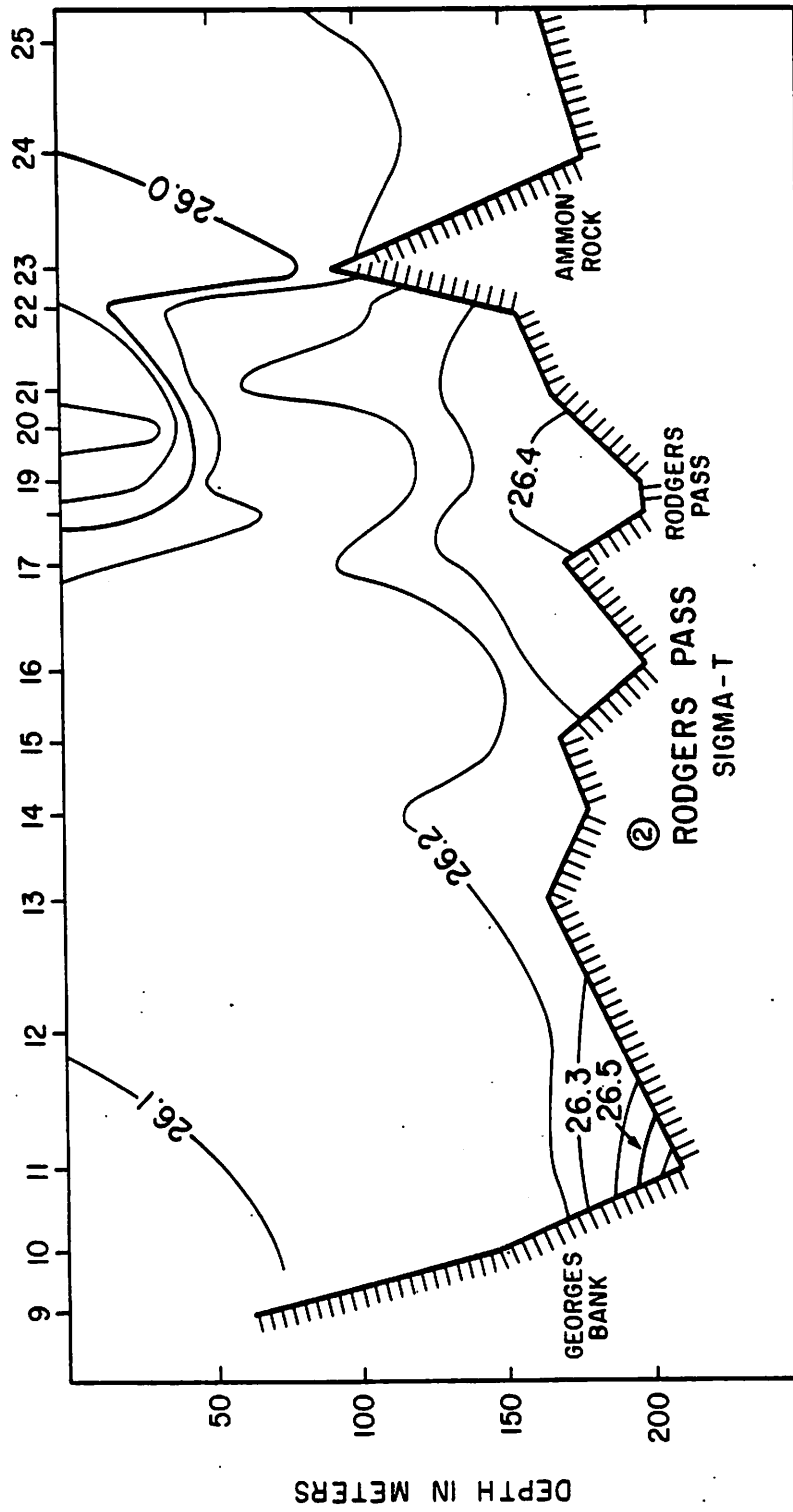


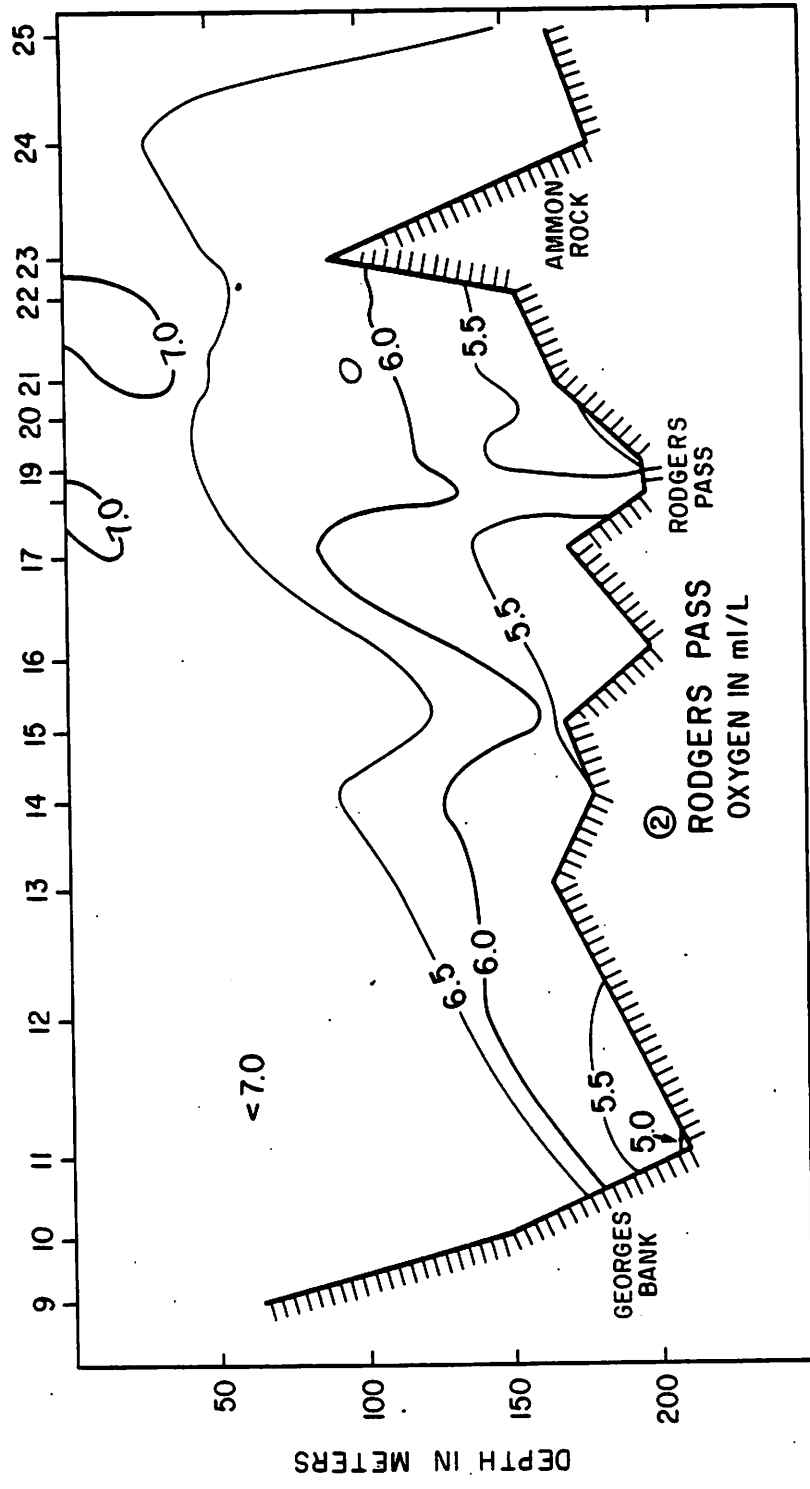


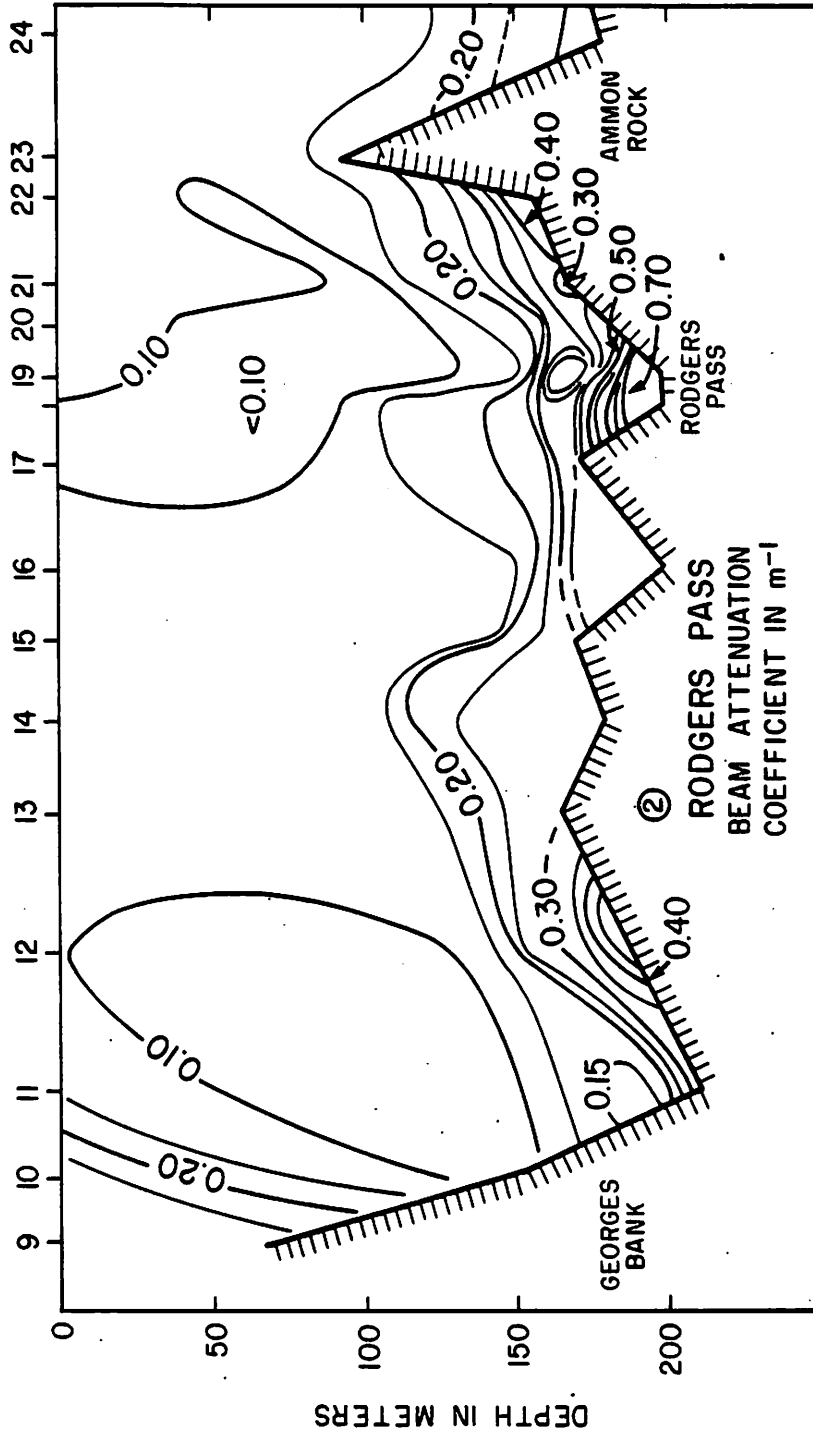


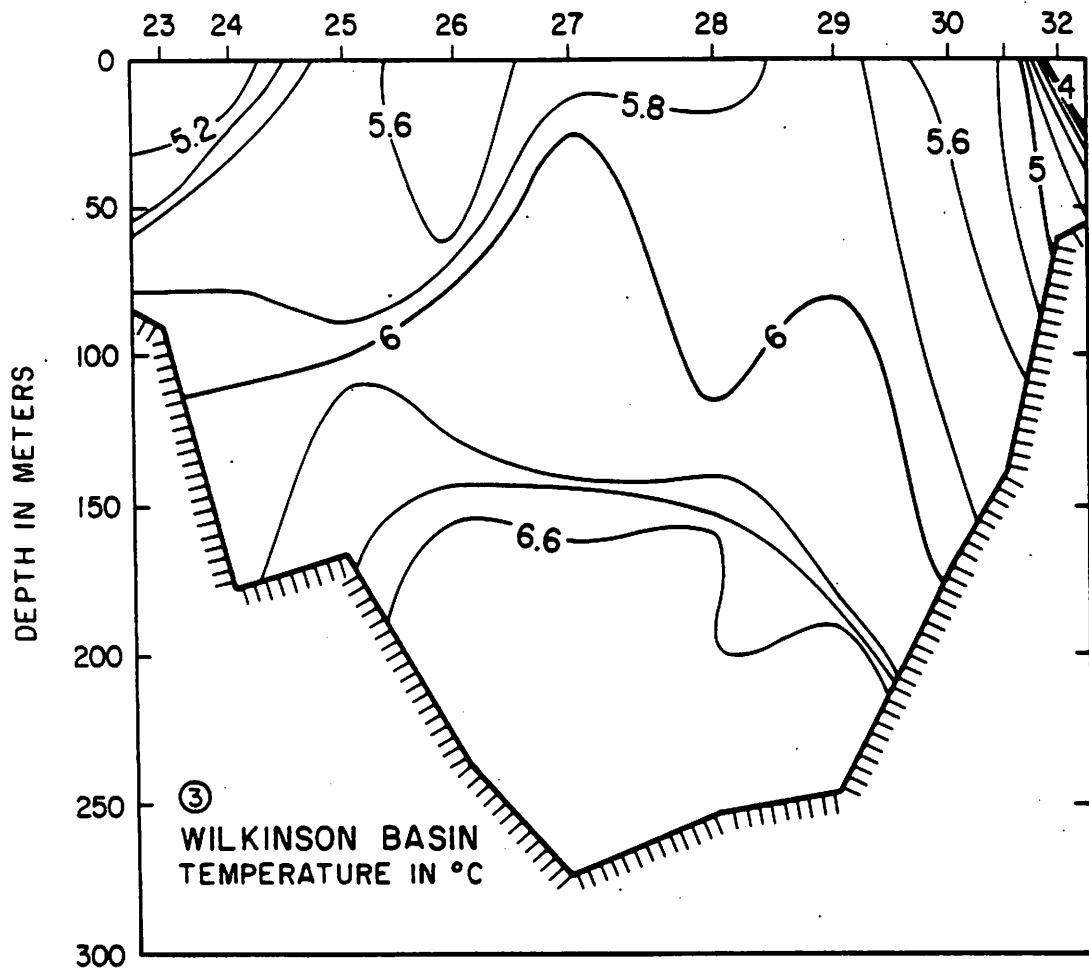


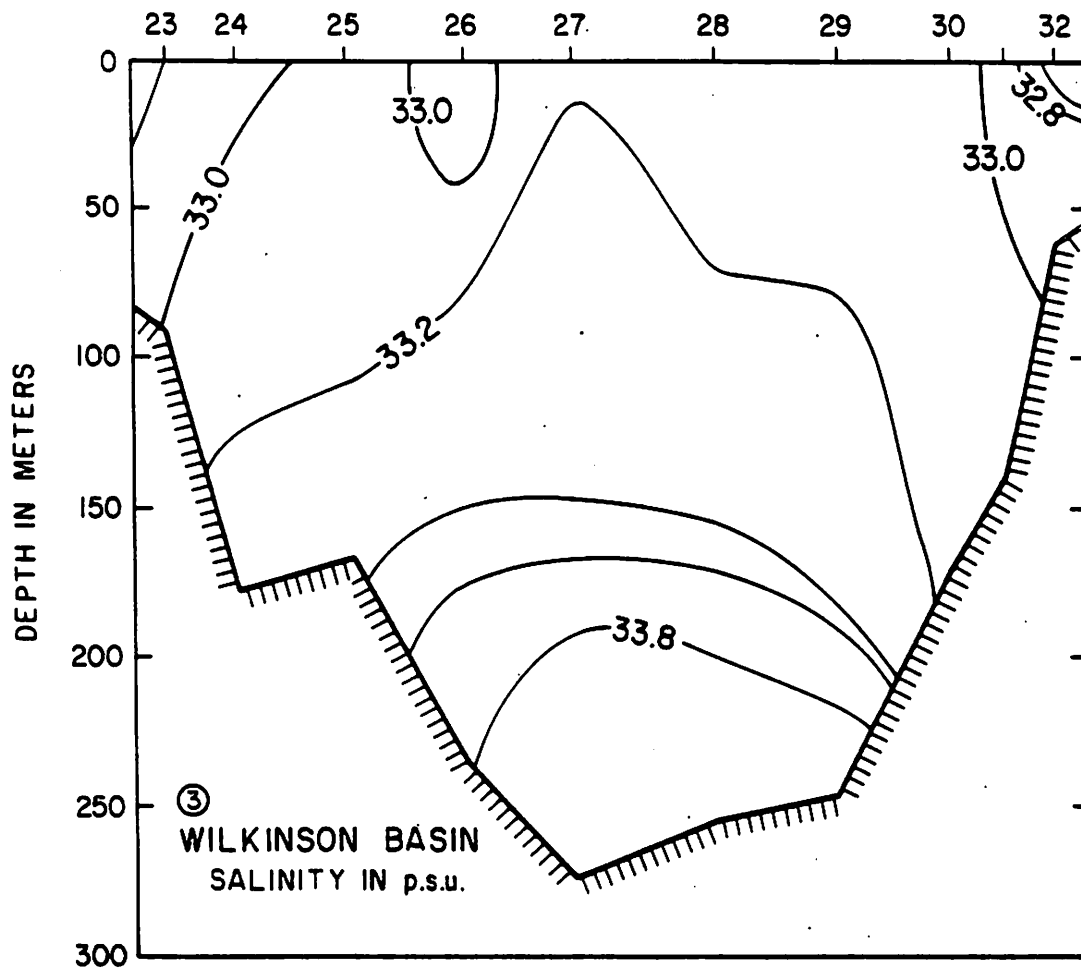


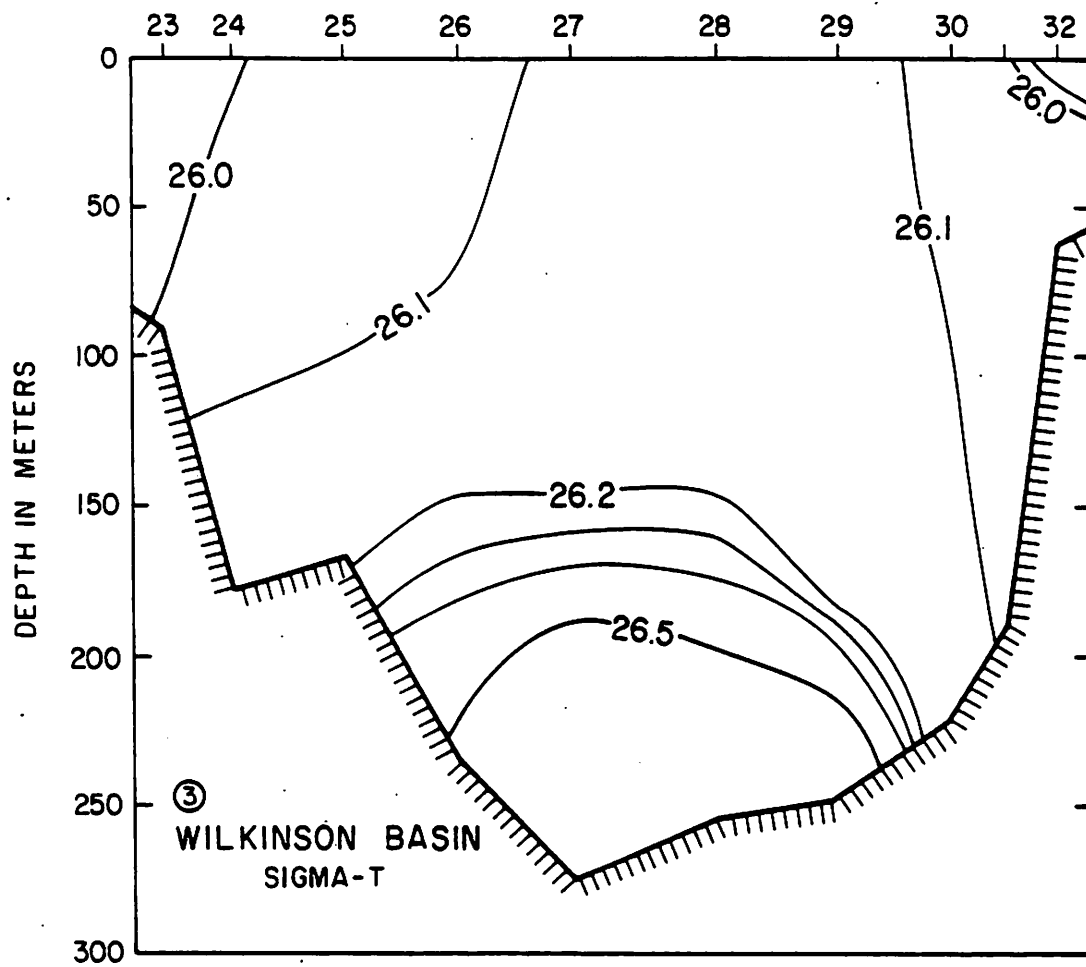


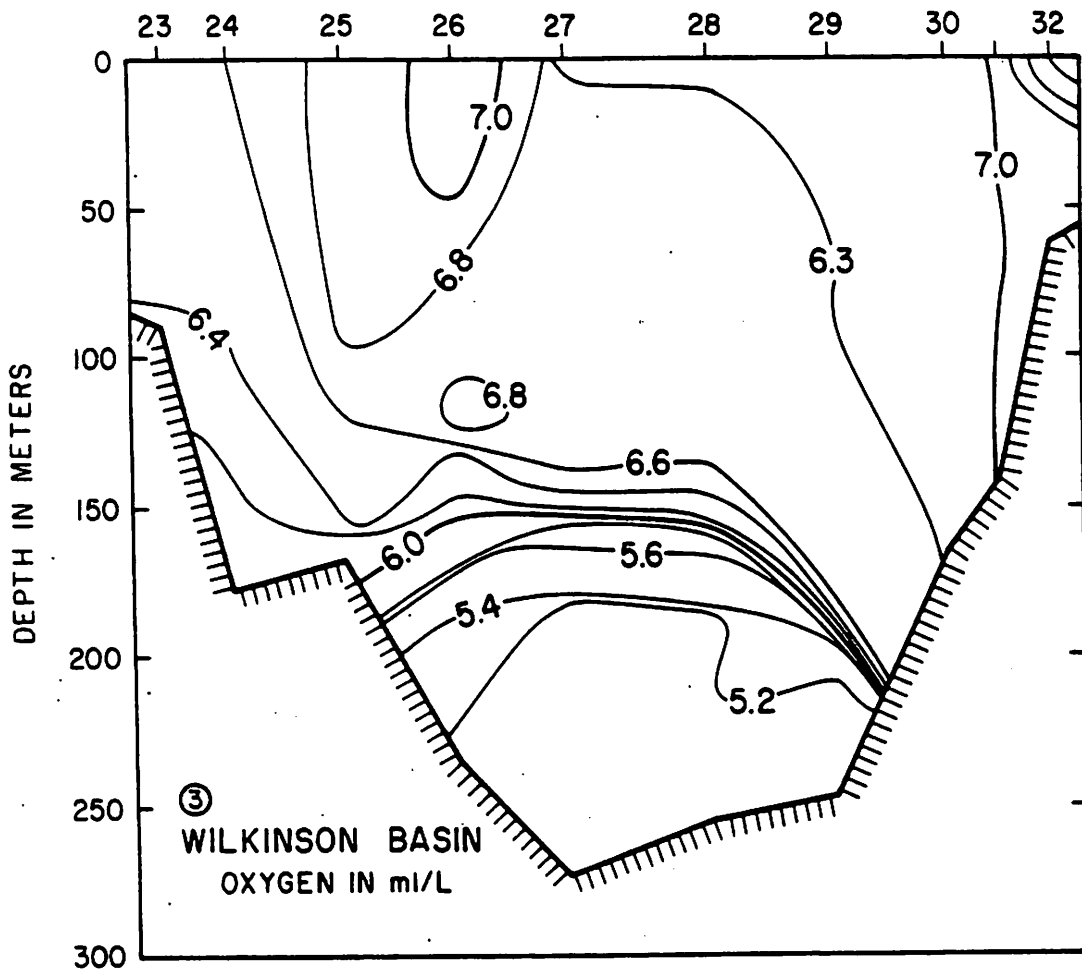


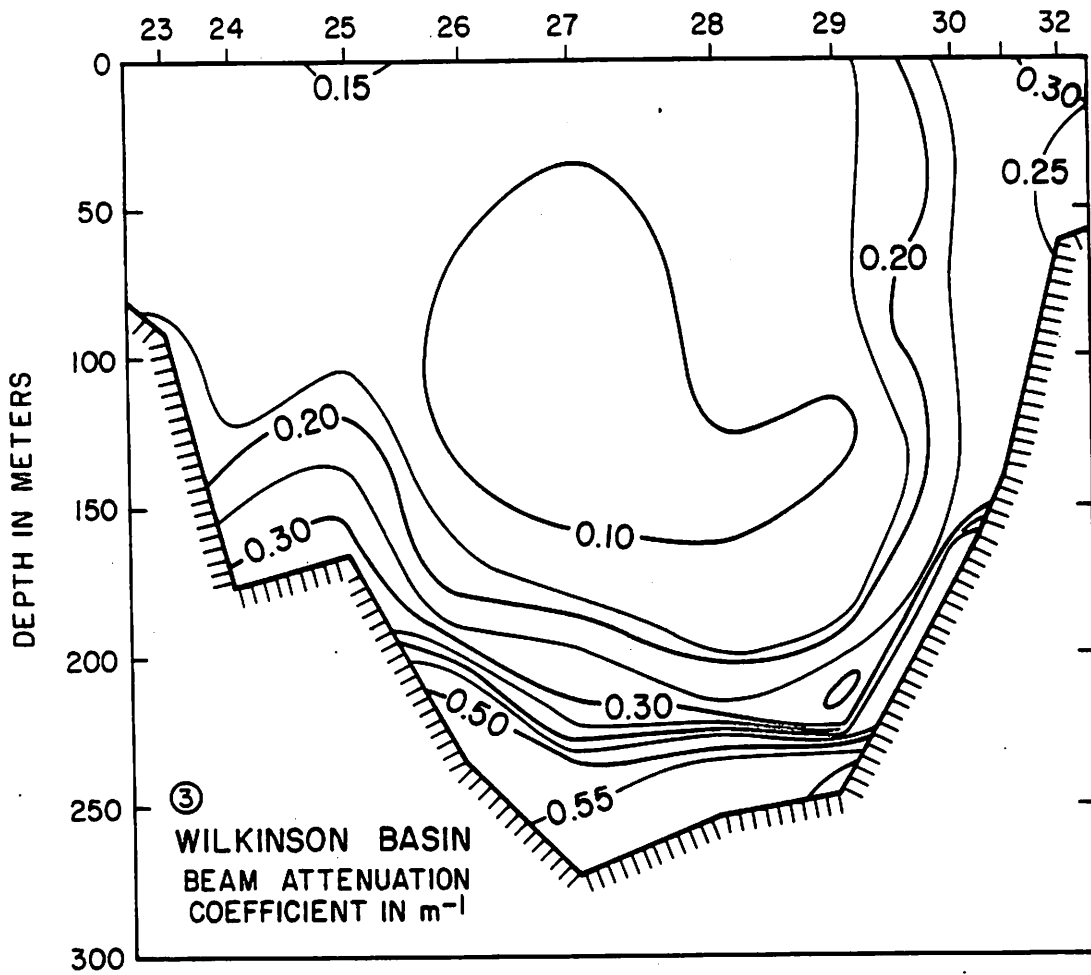


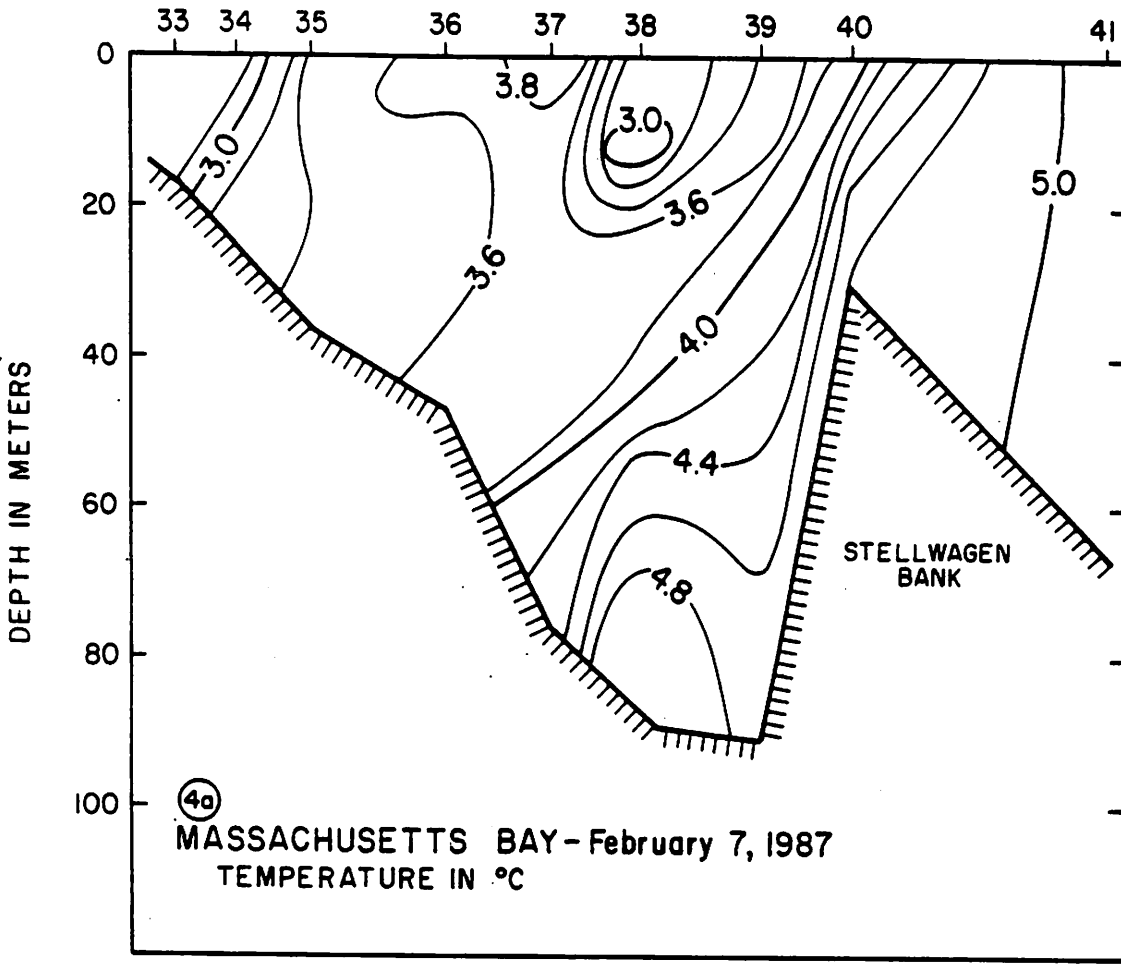


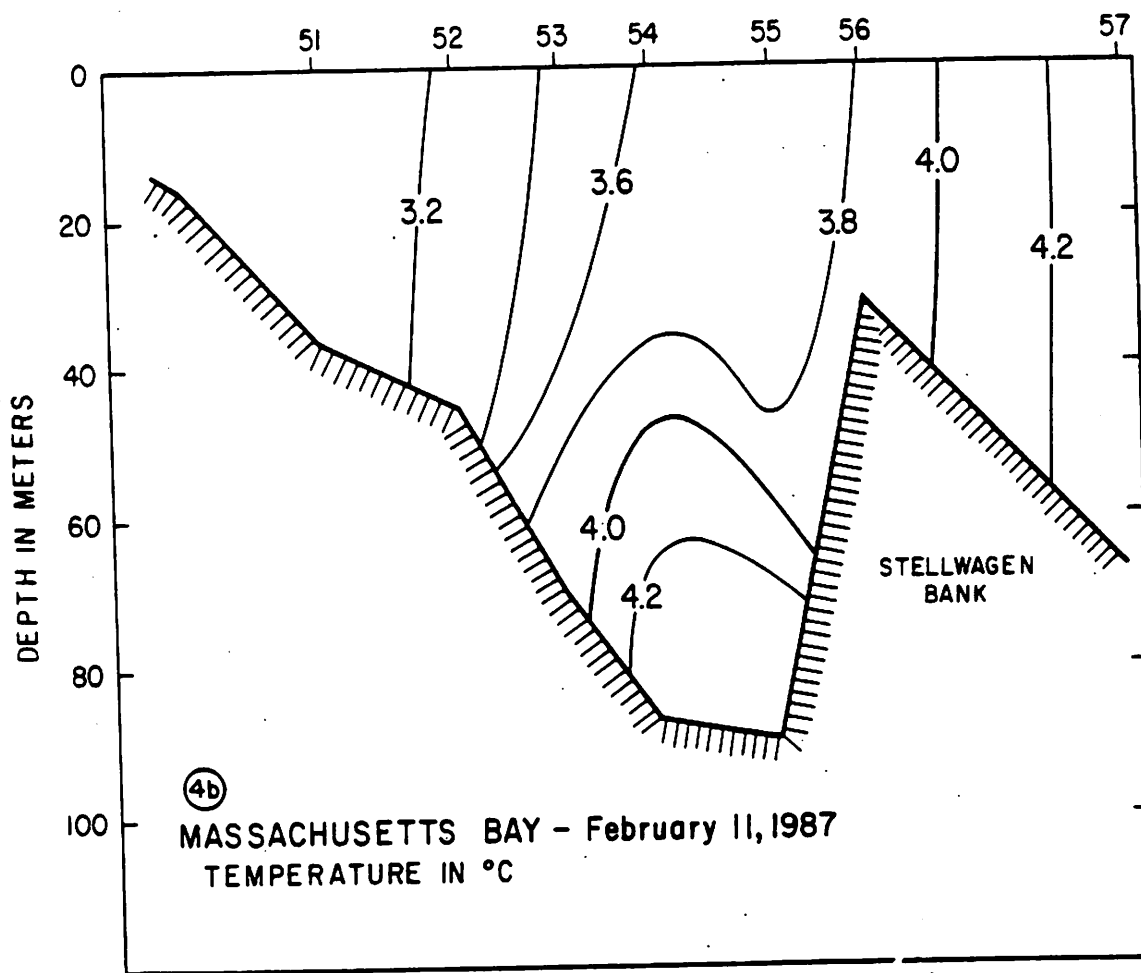


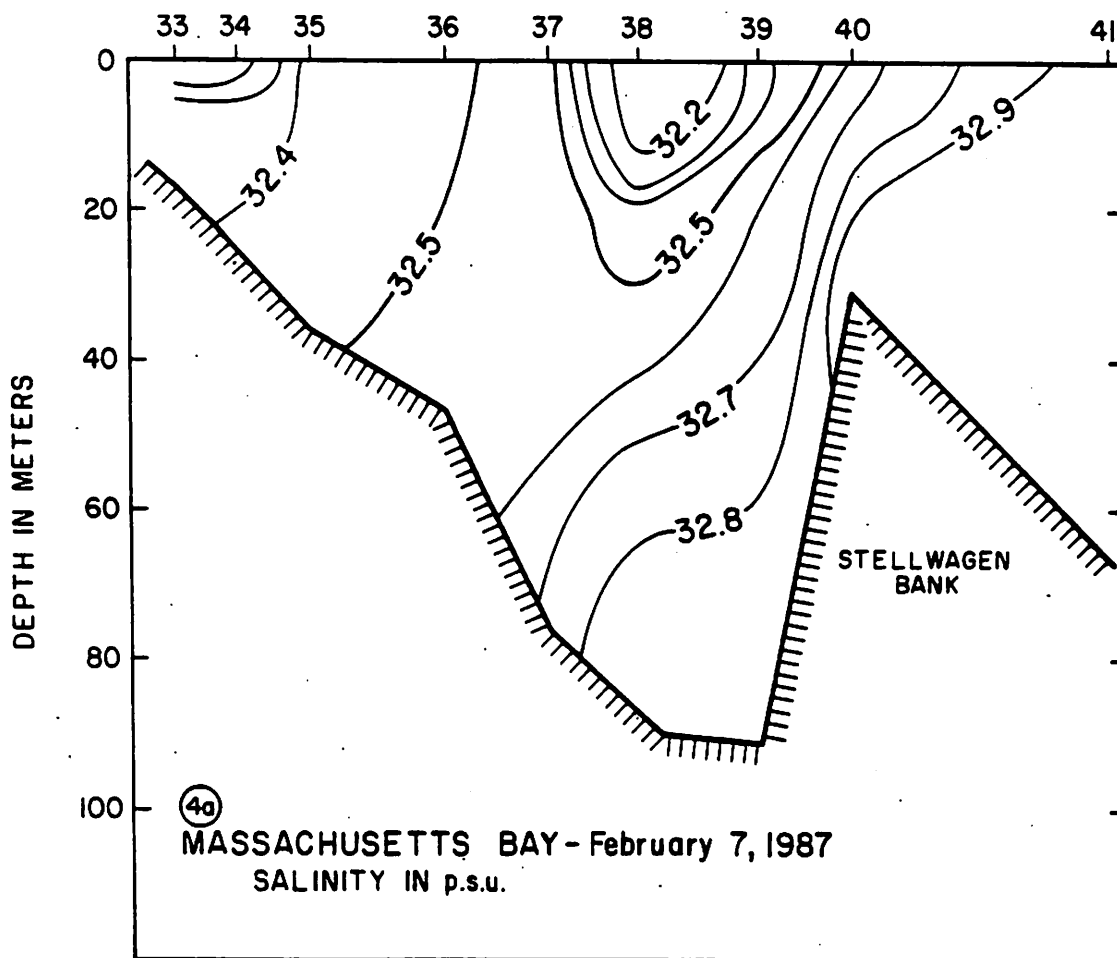


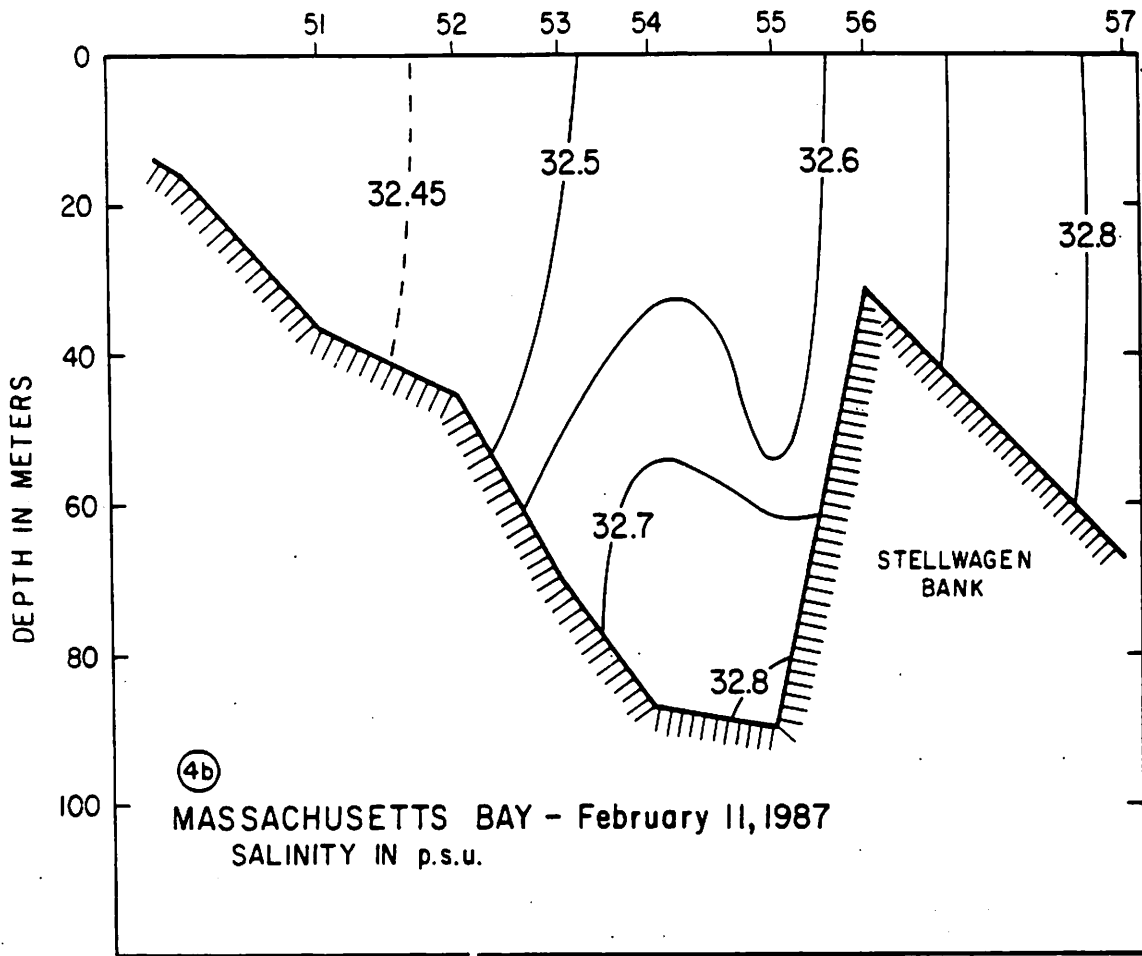


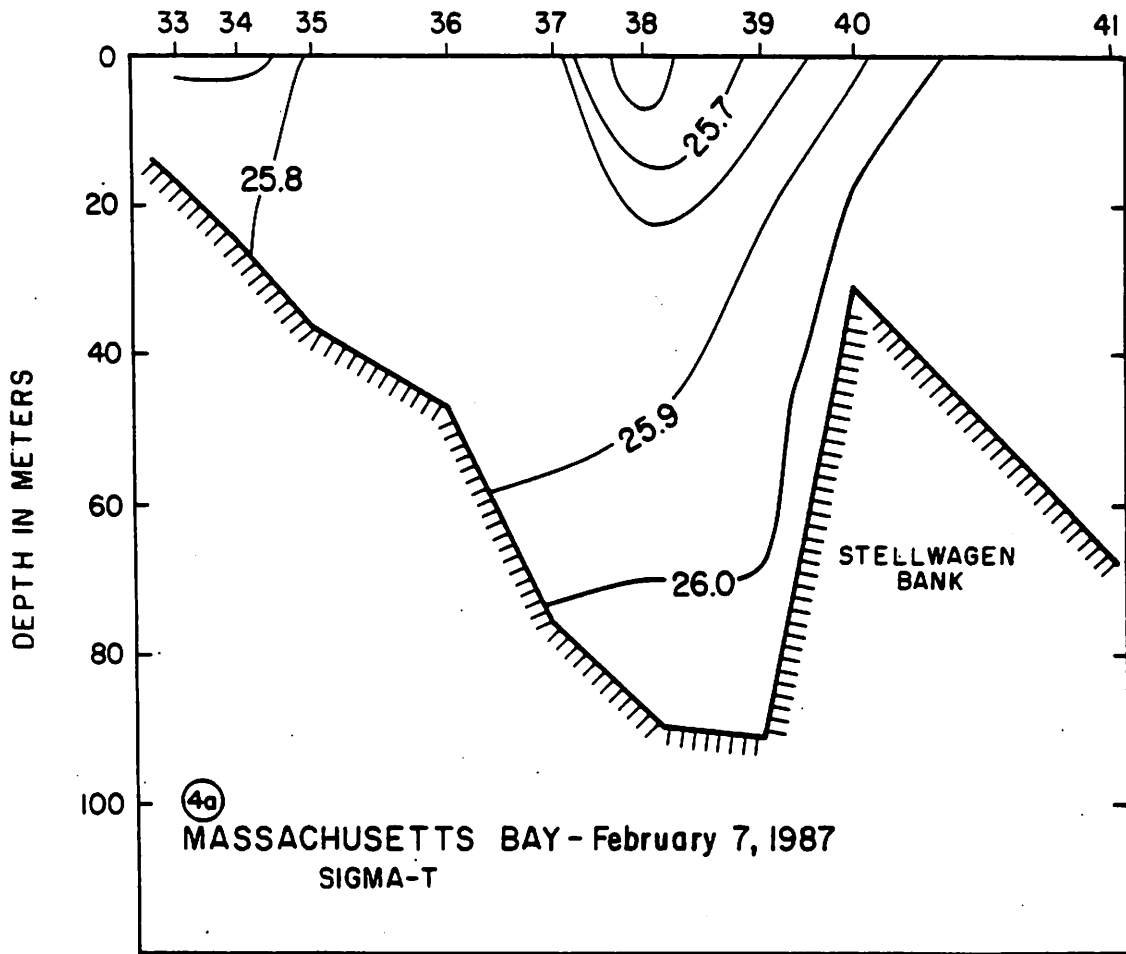


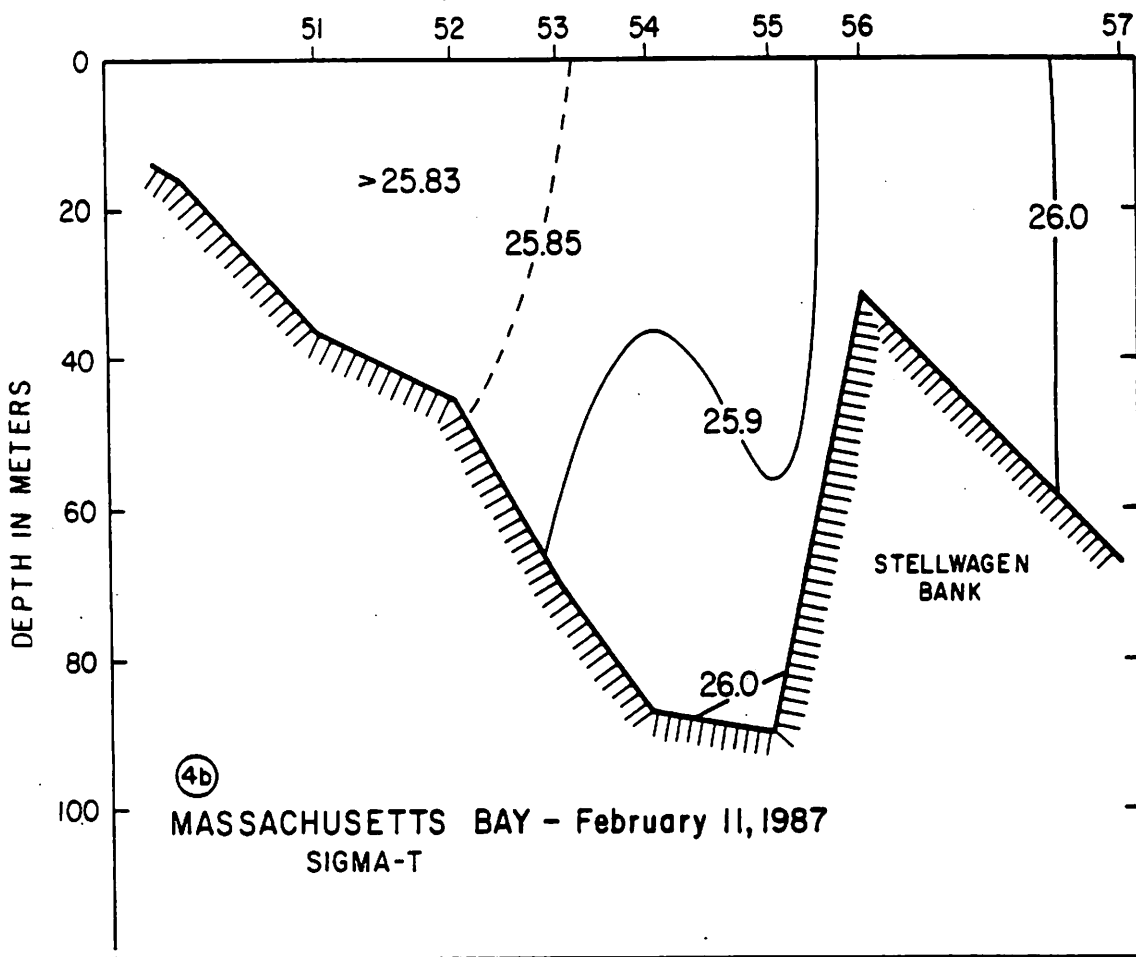


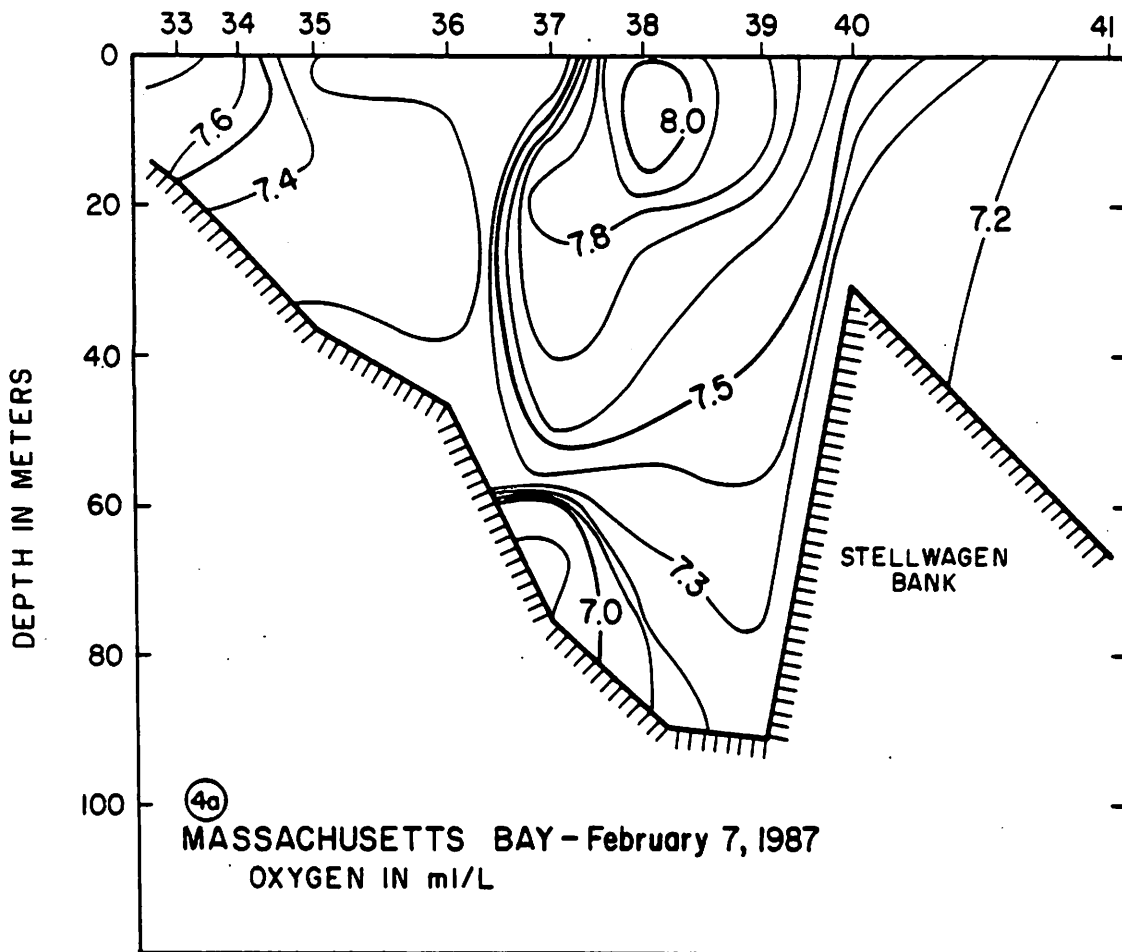


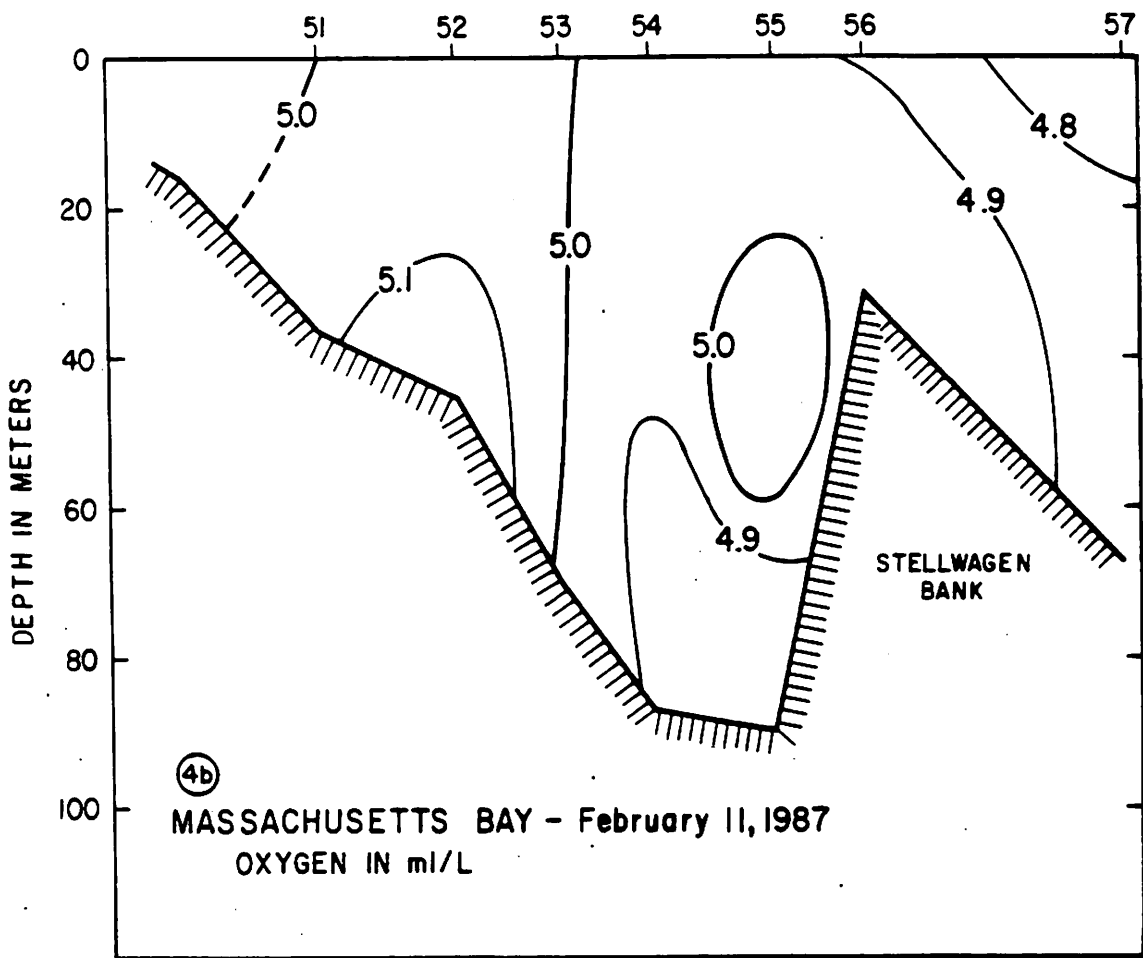


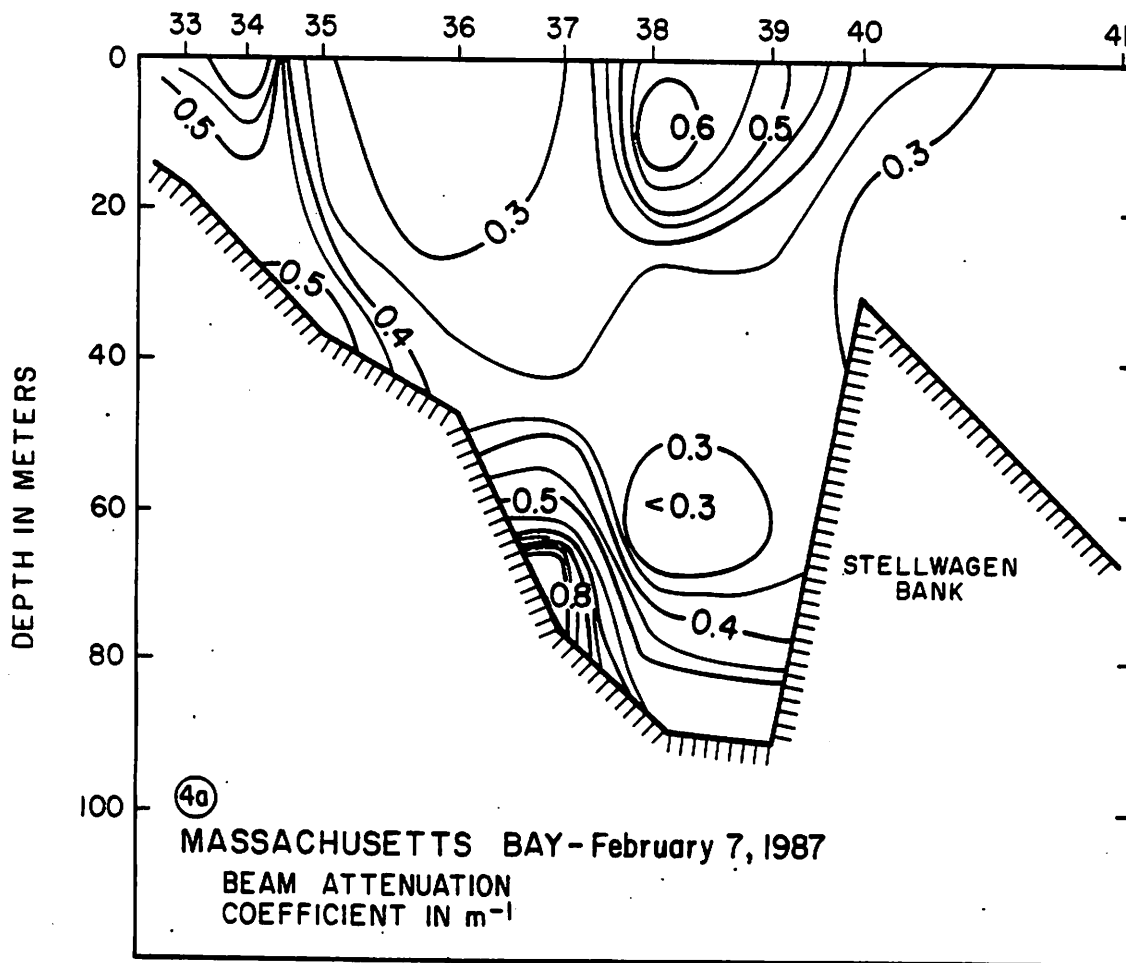


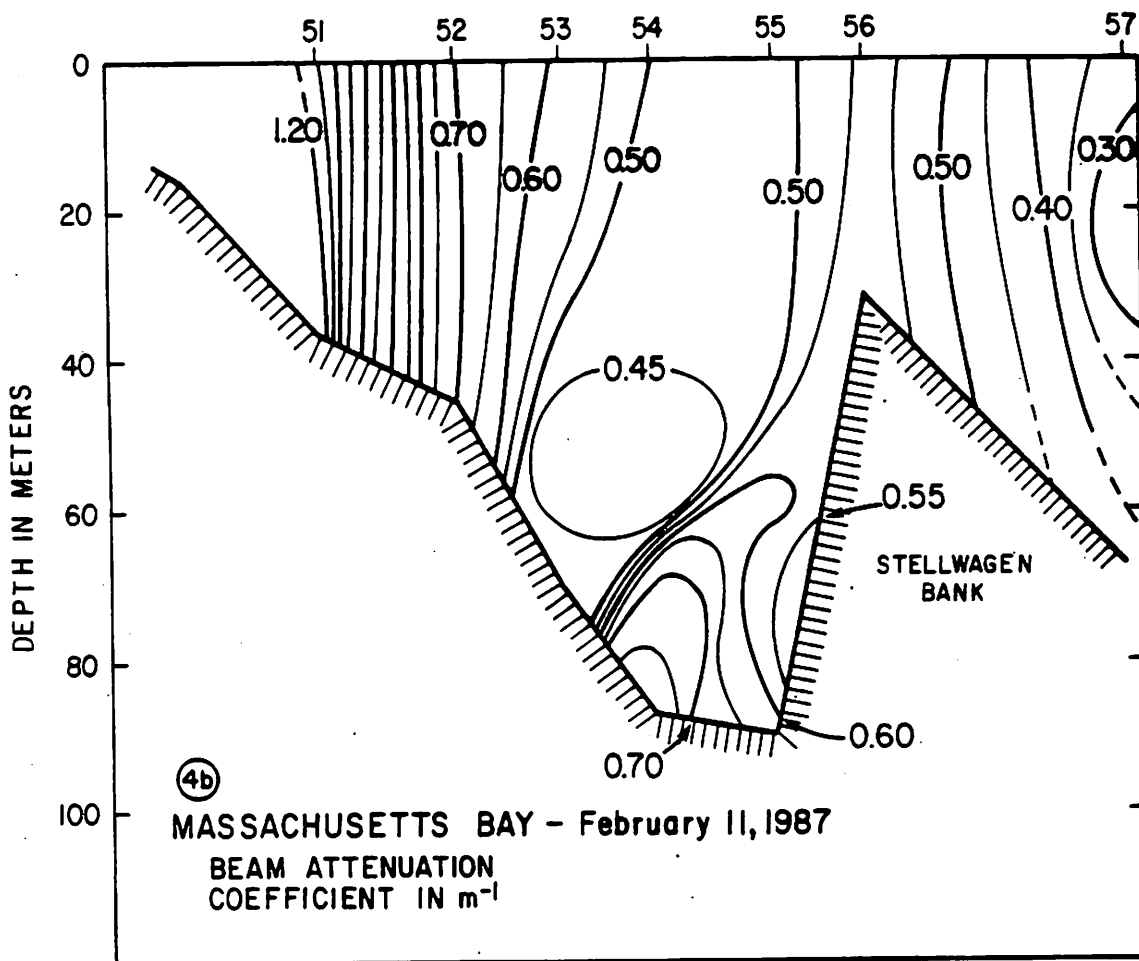


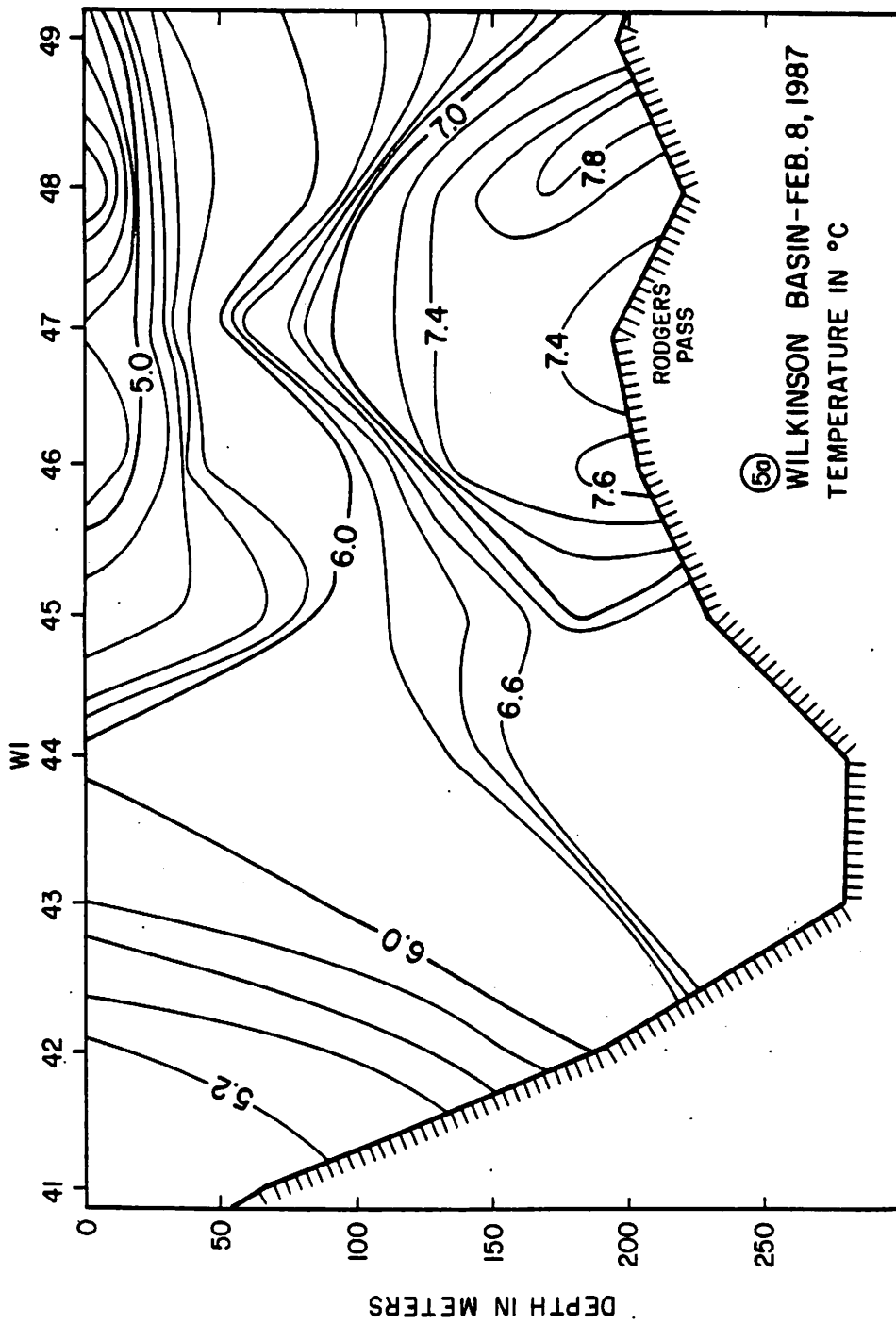




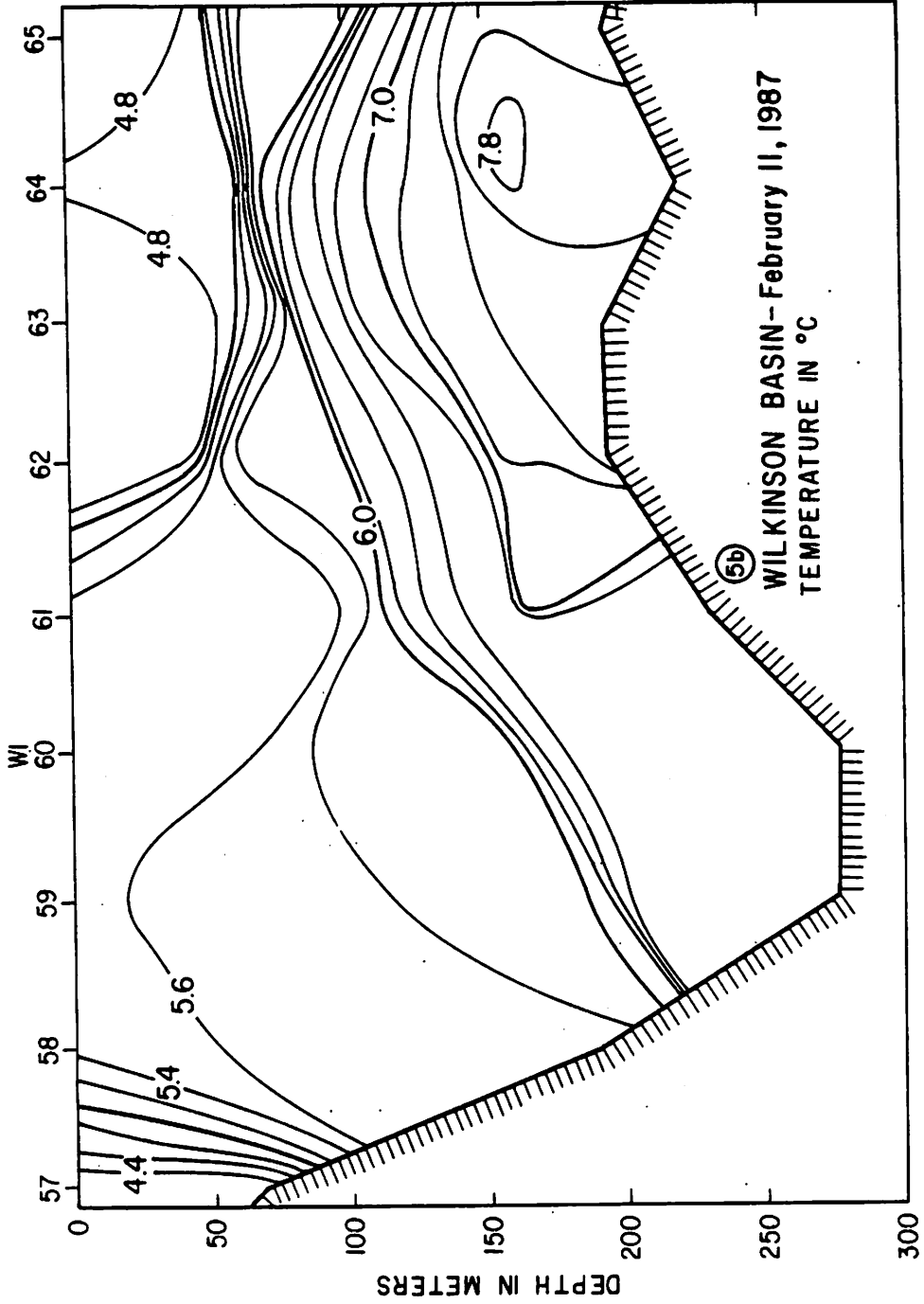


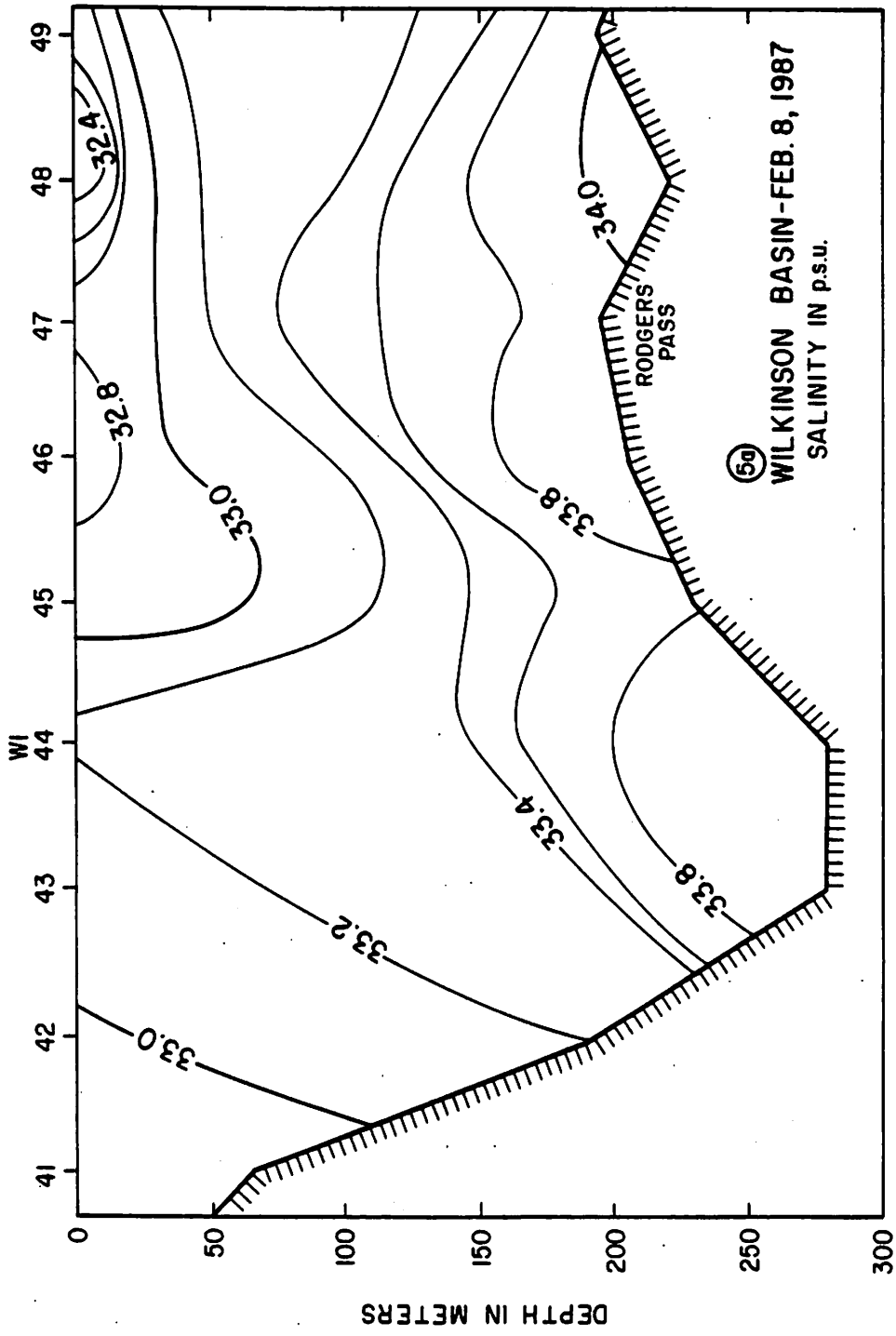


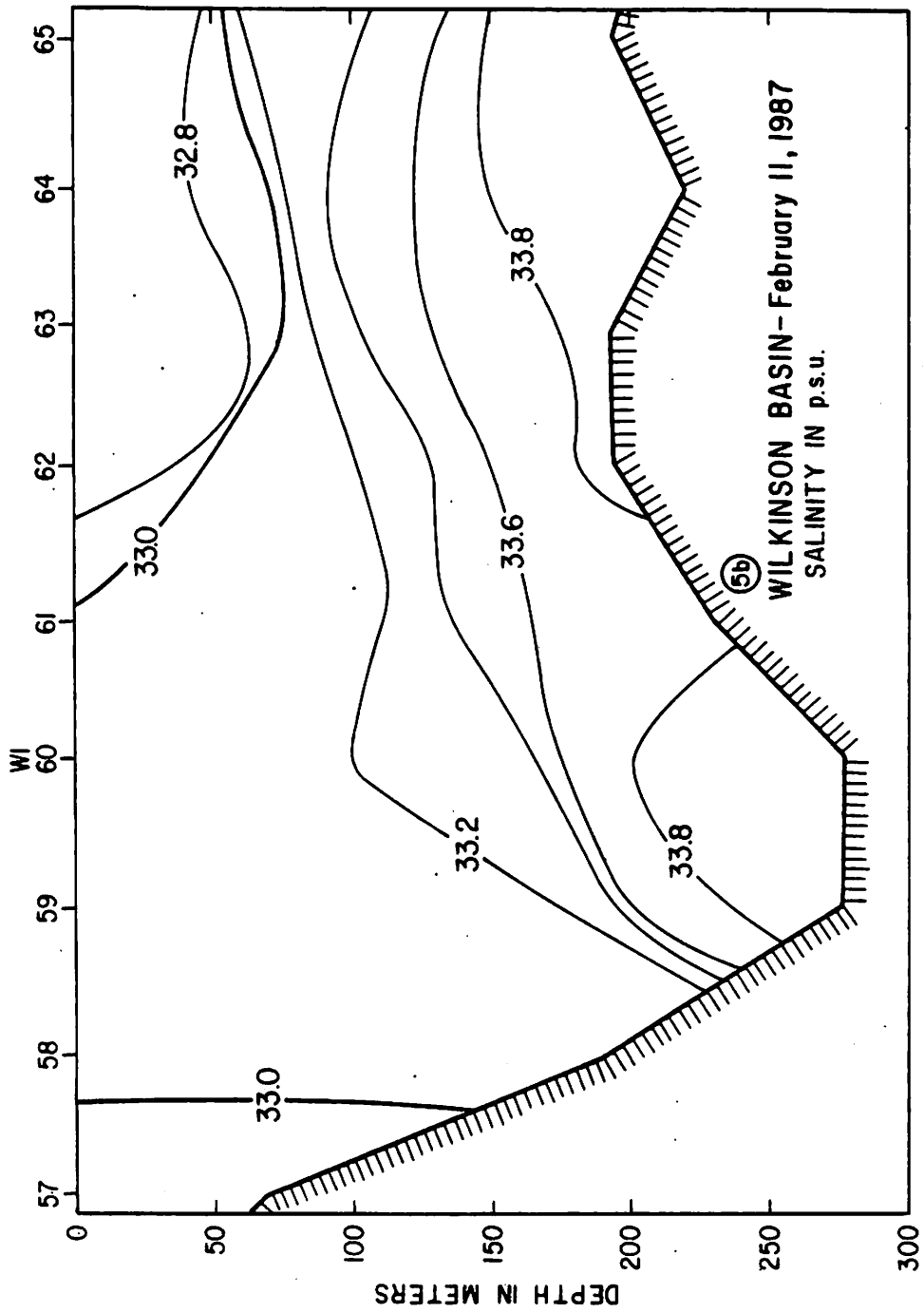


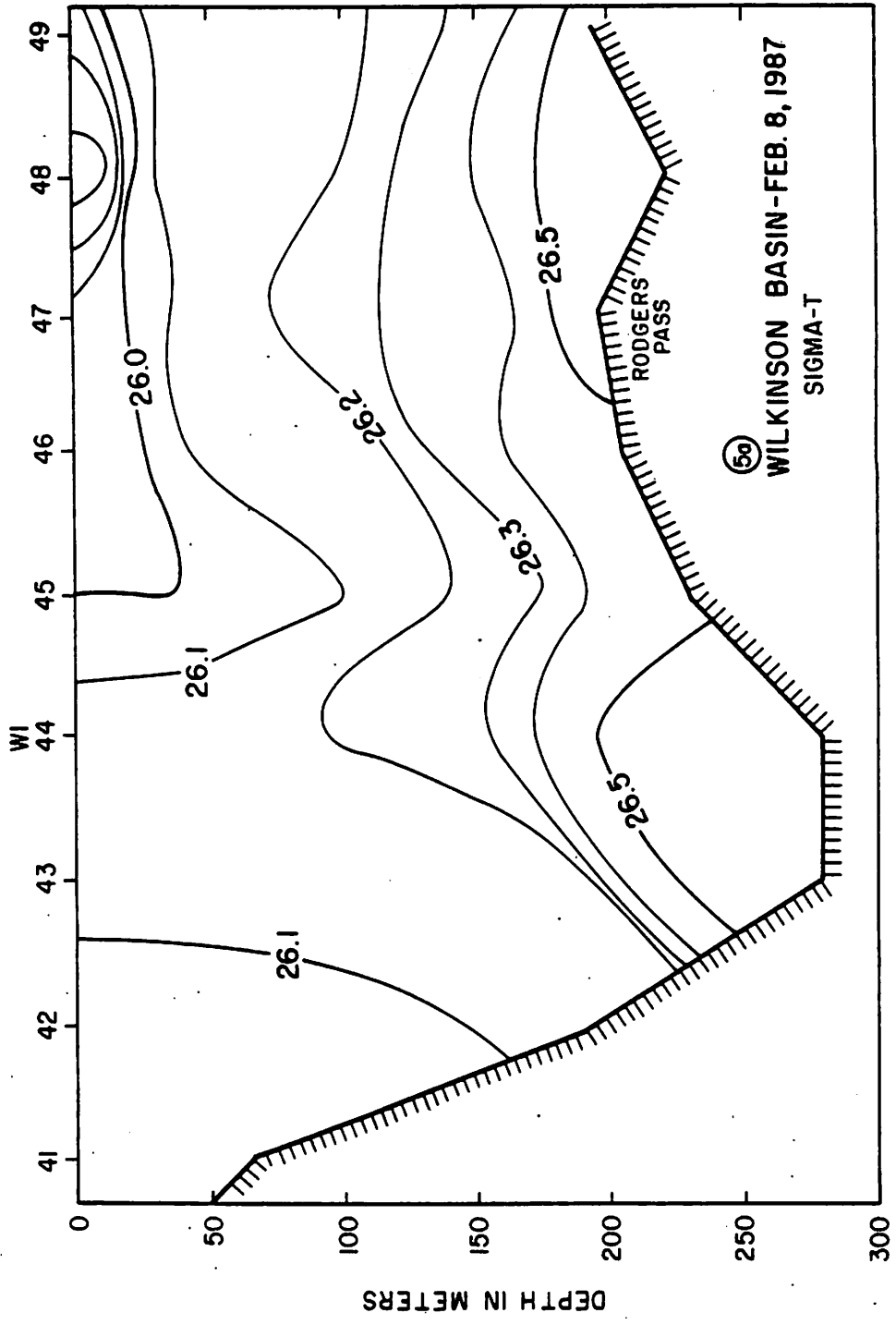


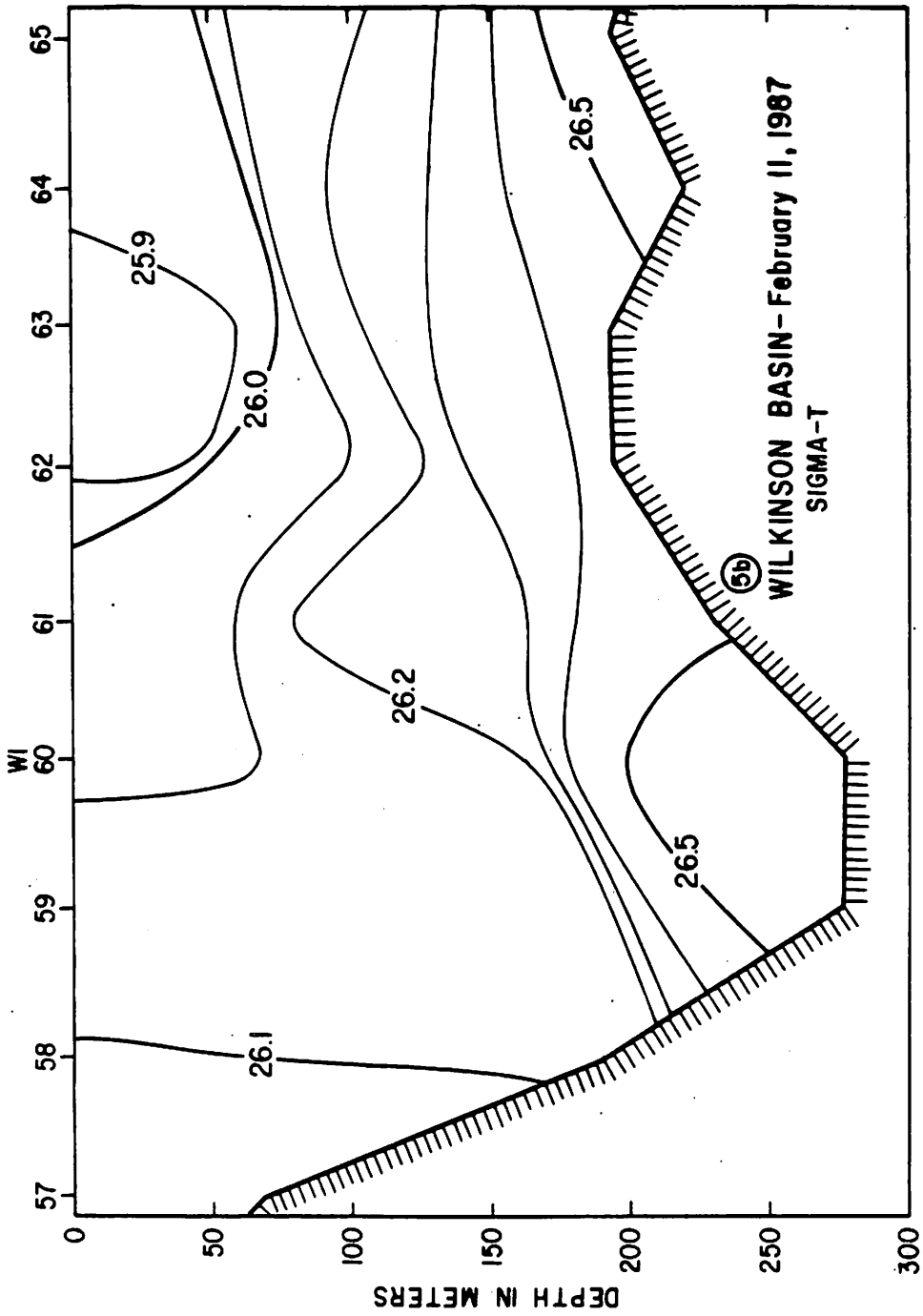
(50) WILKINSON BASIN - FEB. 8, 1987
 TEMPERATURE IN °C

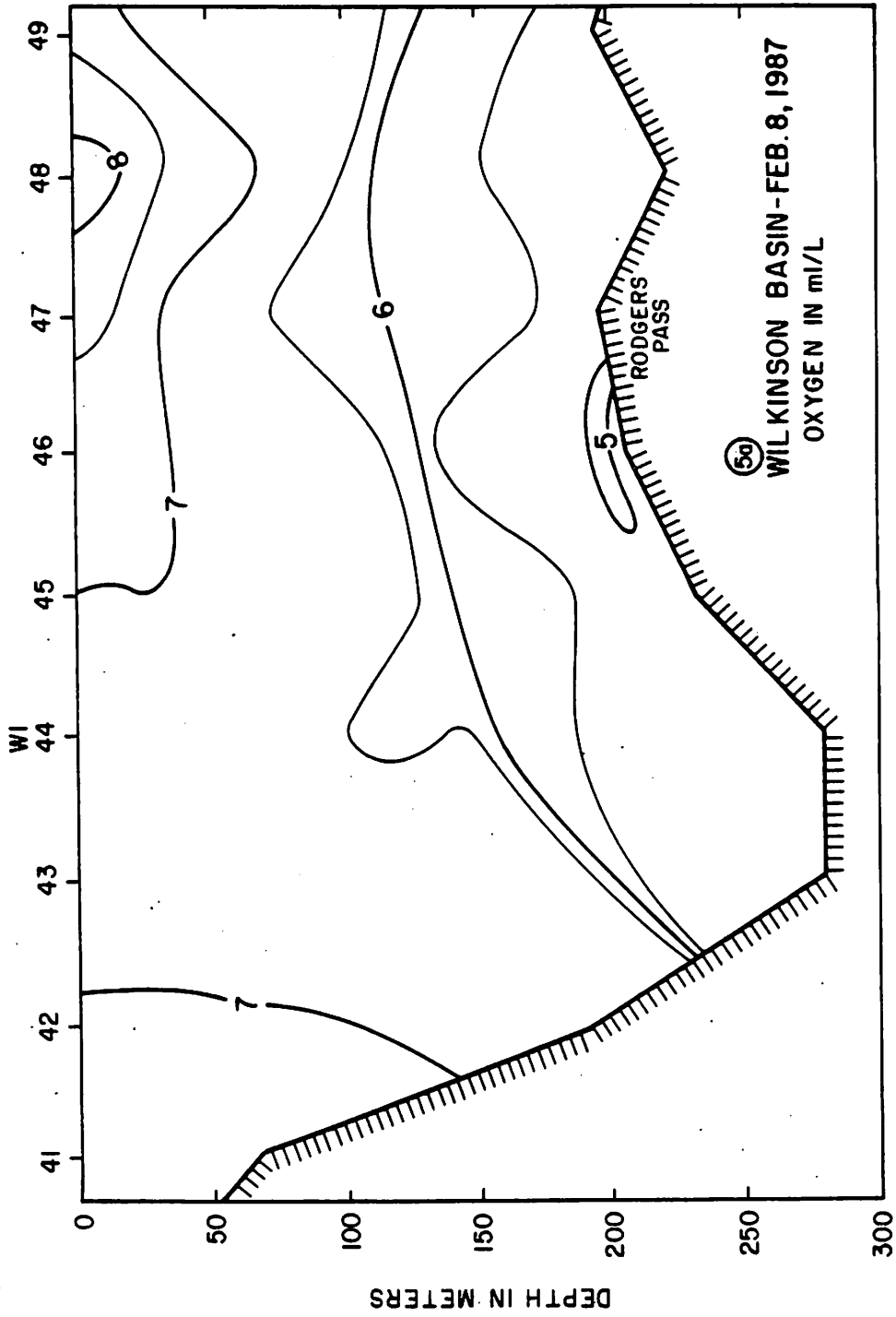




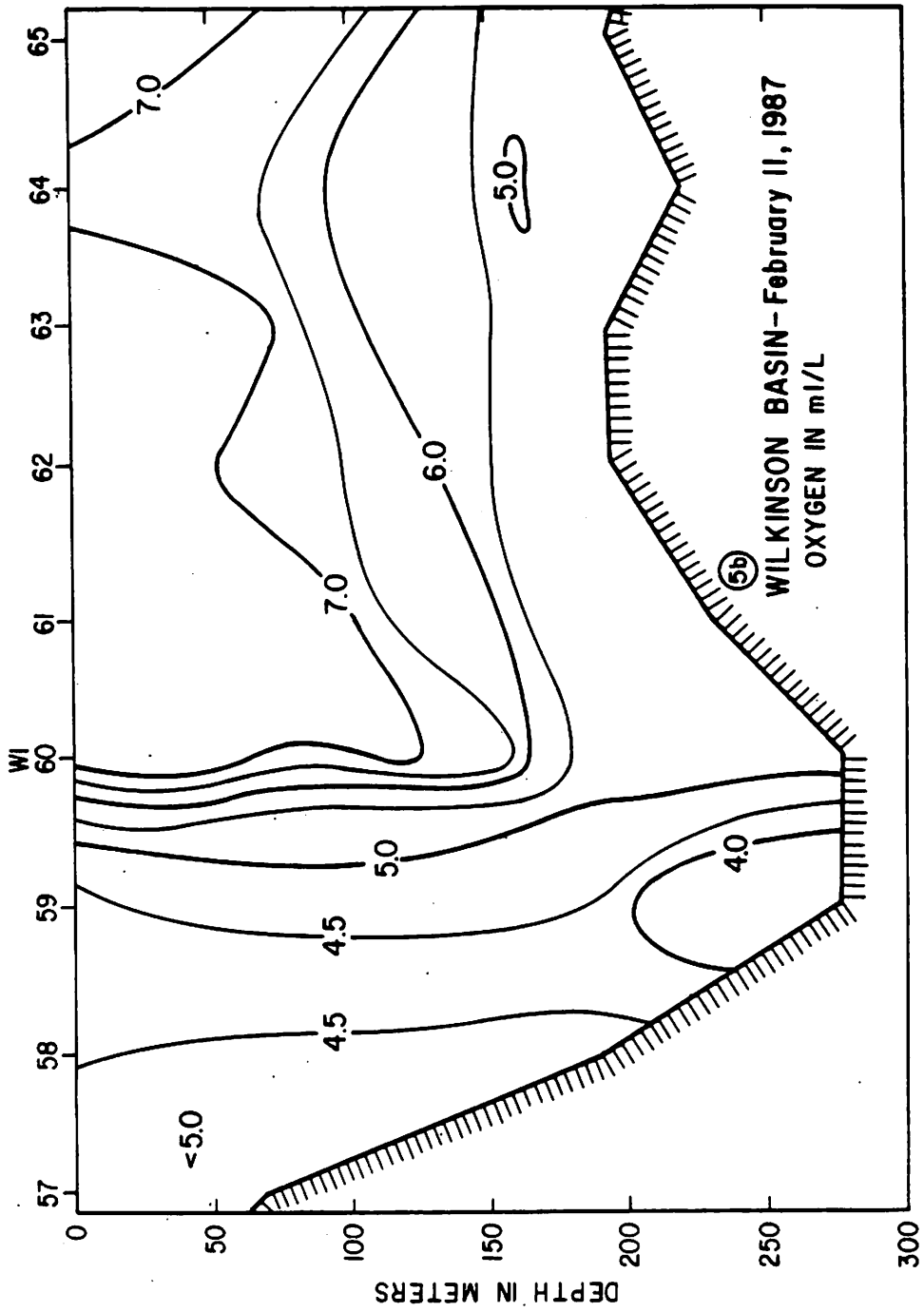


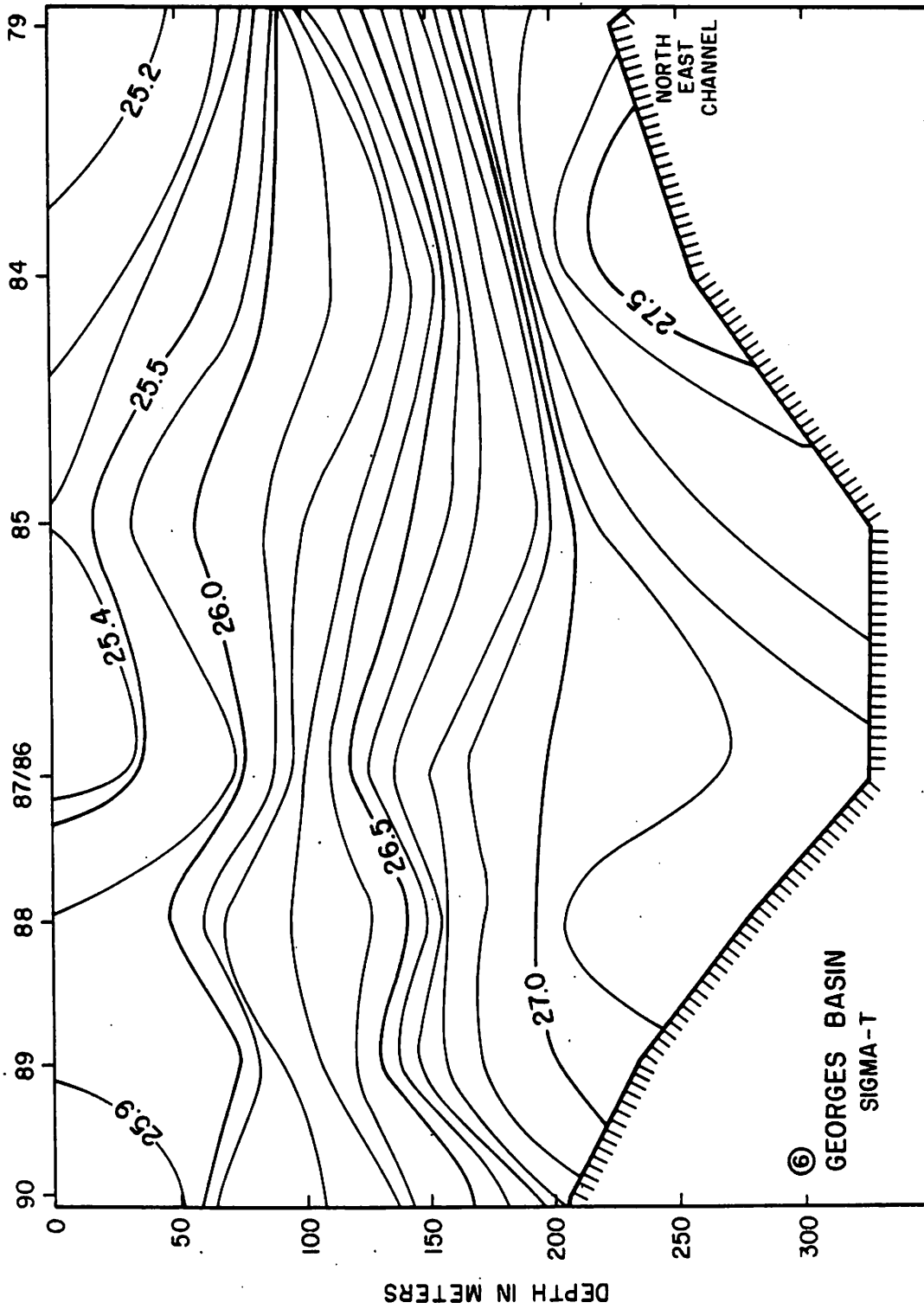


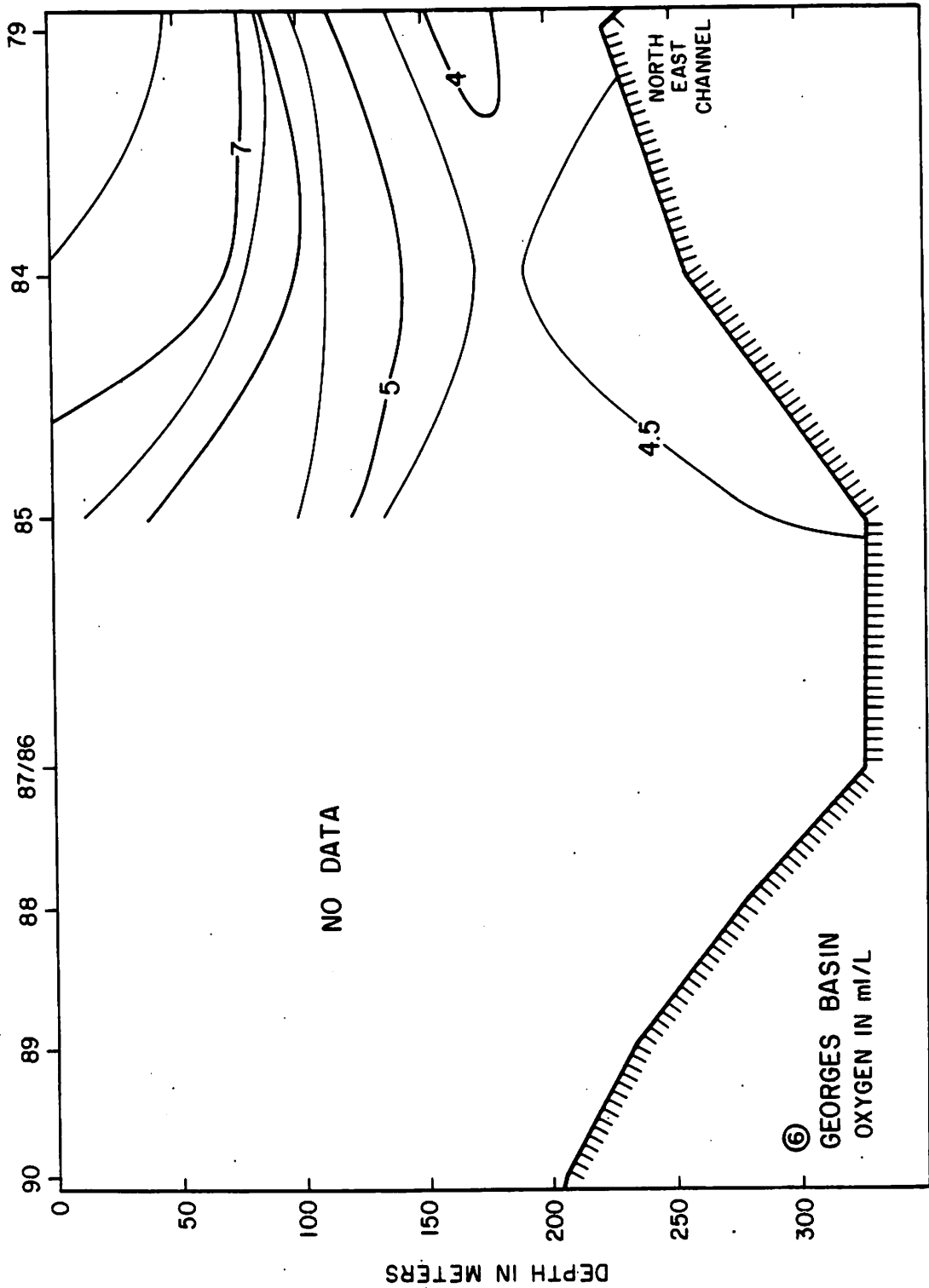


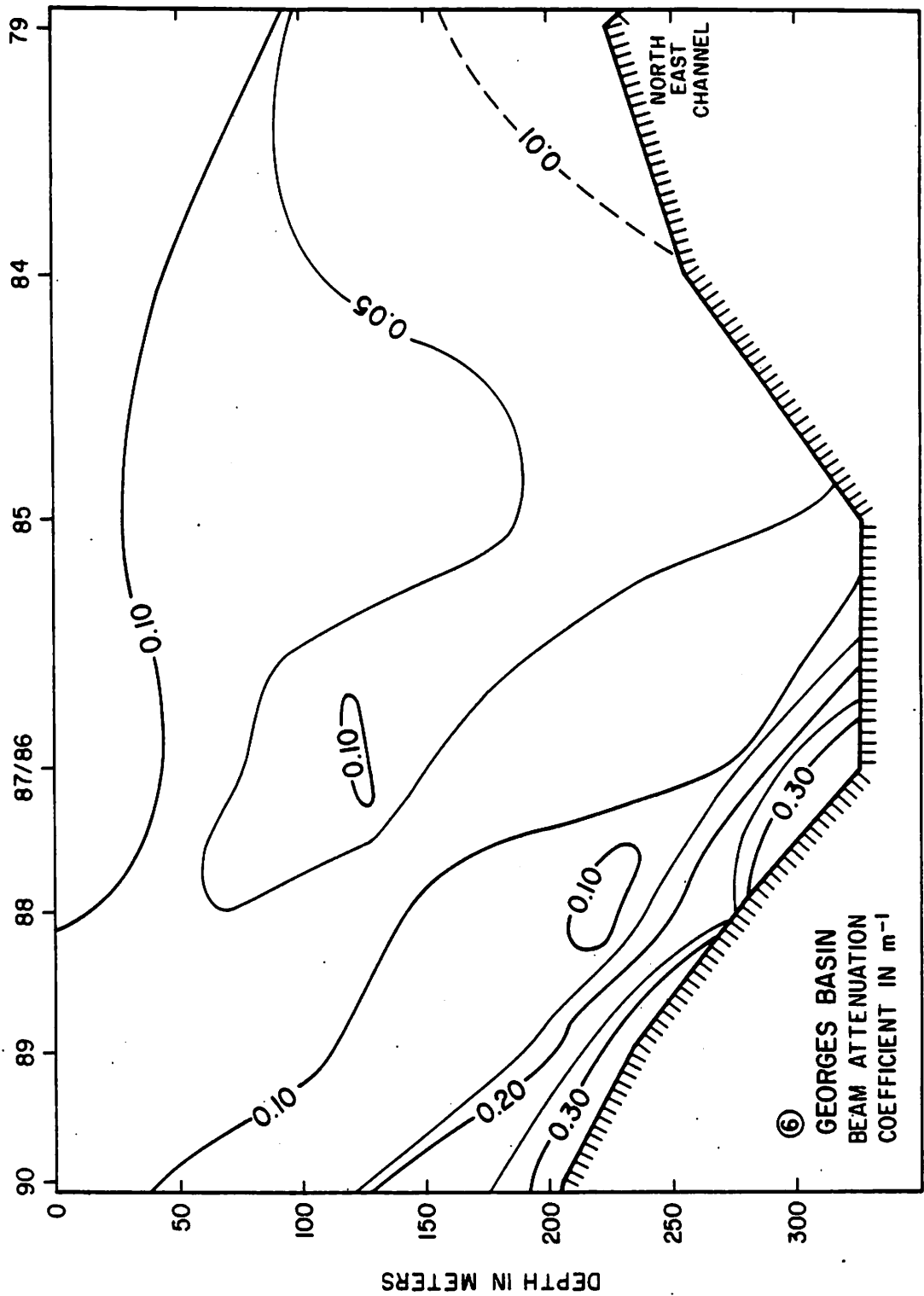


(50) WILKINSON BASIN - FEB. 8, 1987
 OXYGEN IN ml/L

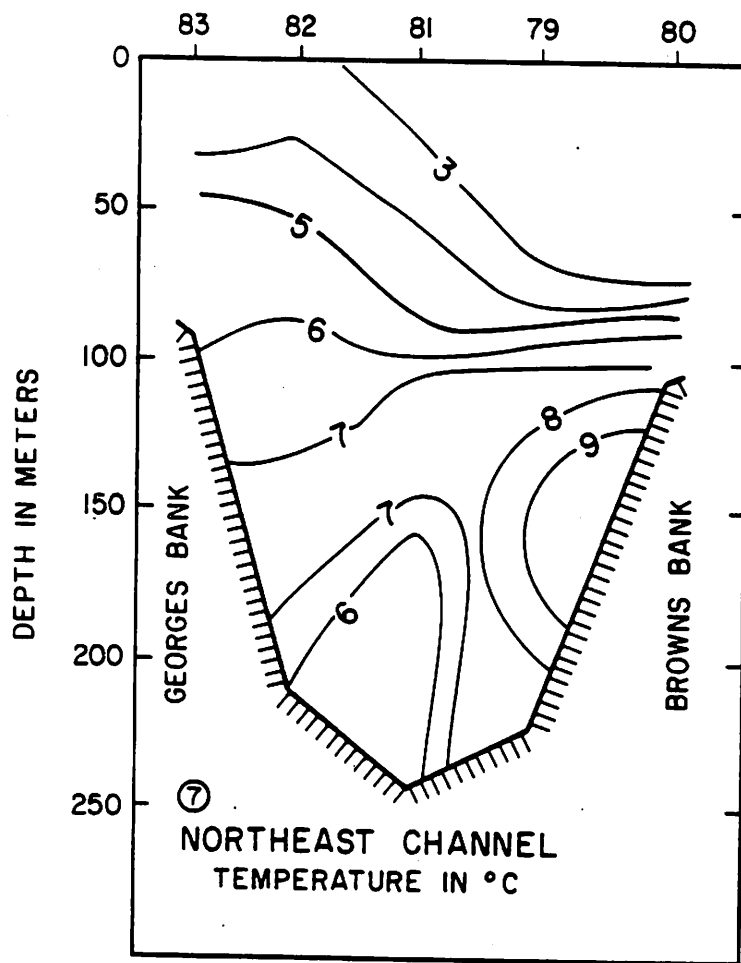


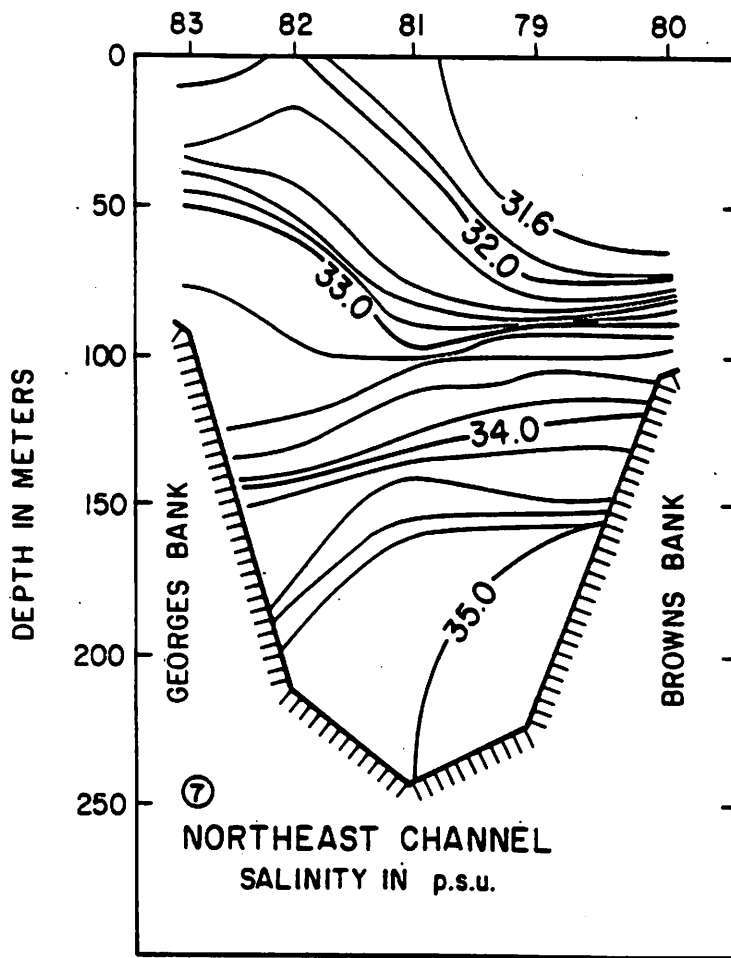


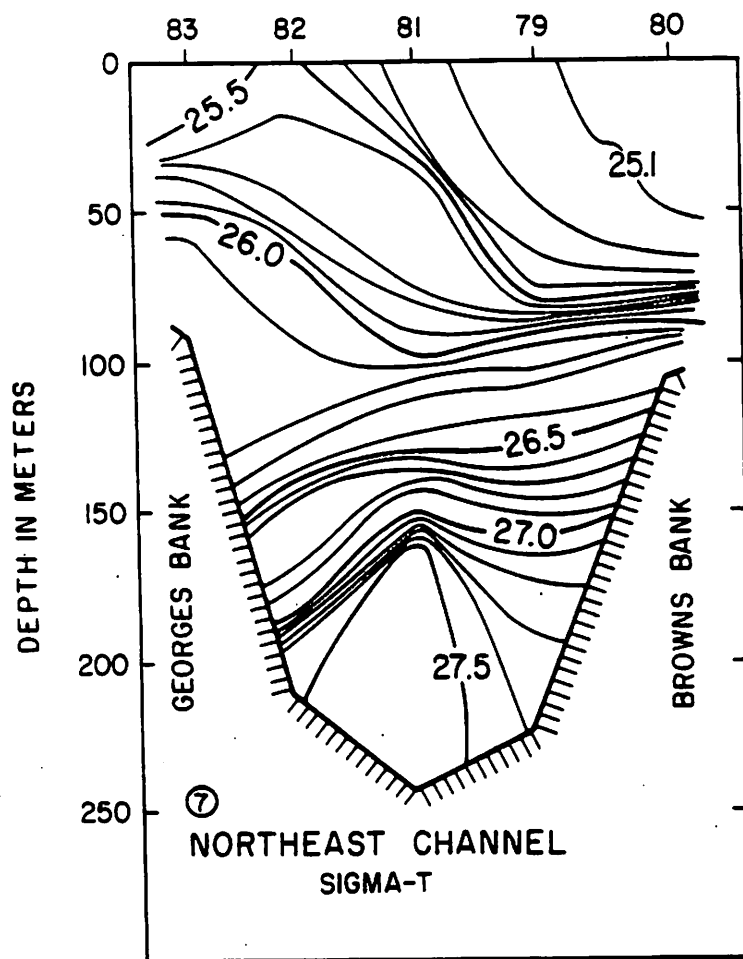


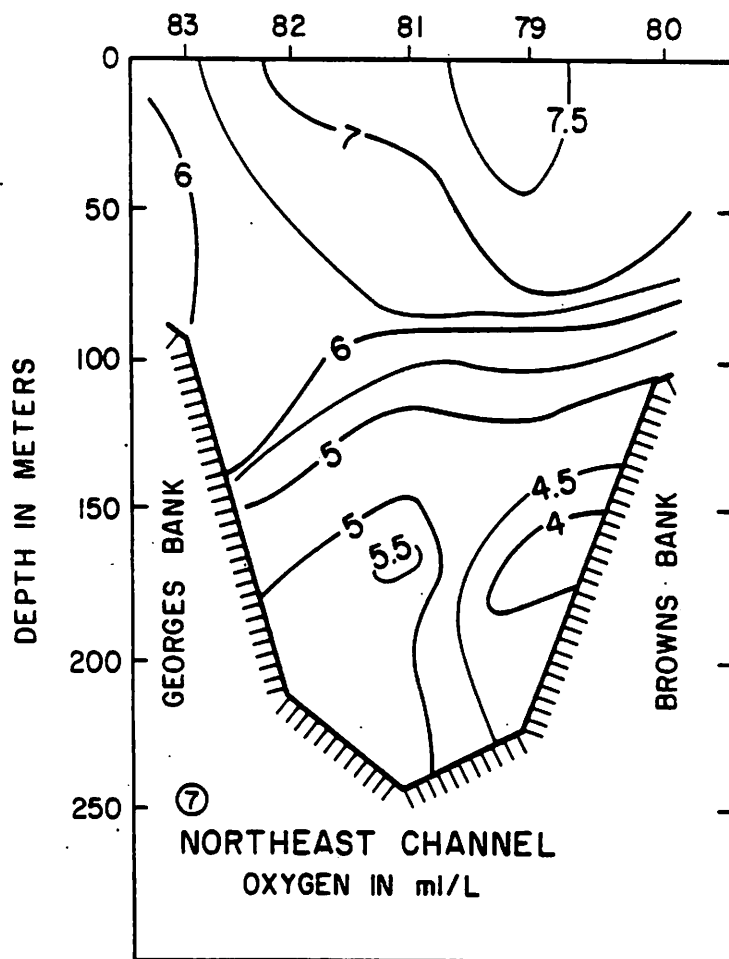


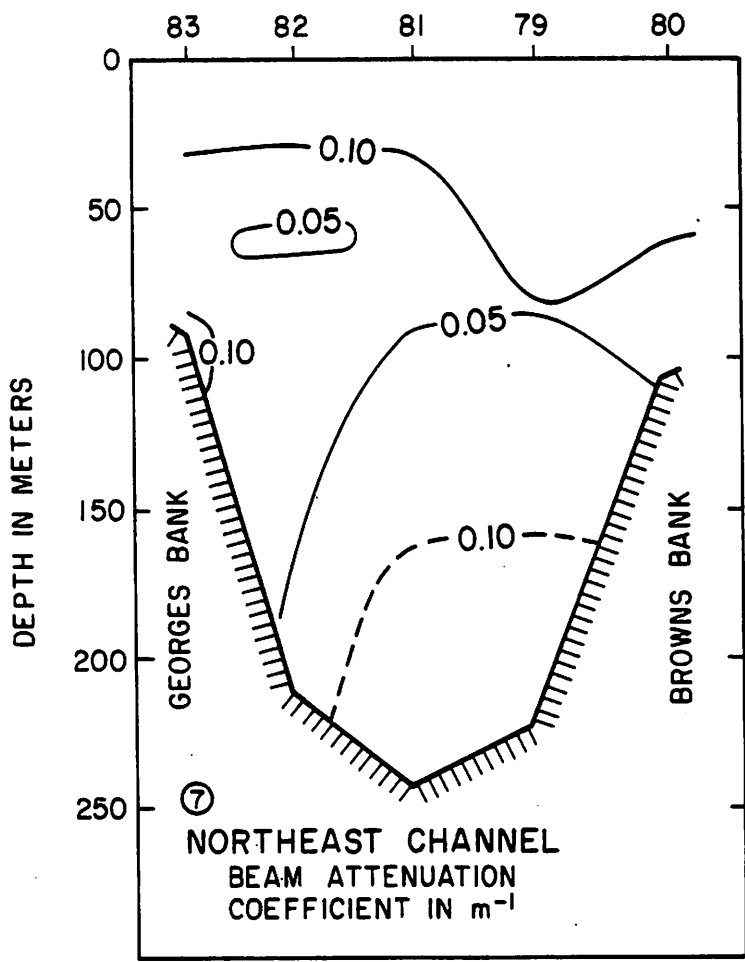
⑥ GEORGES BASIN
 BEAM ATTENUATION
 COEFFICIENT IN m^{-1}

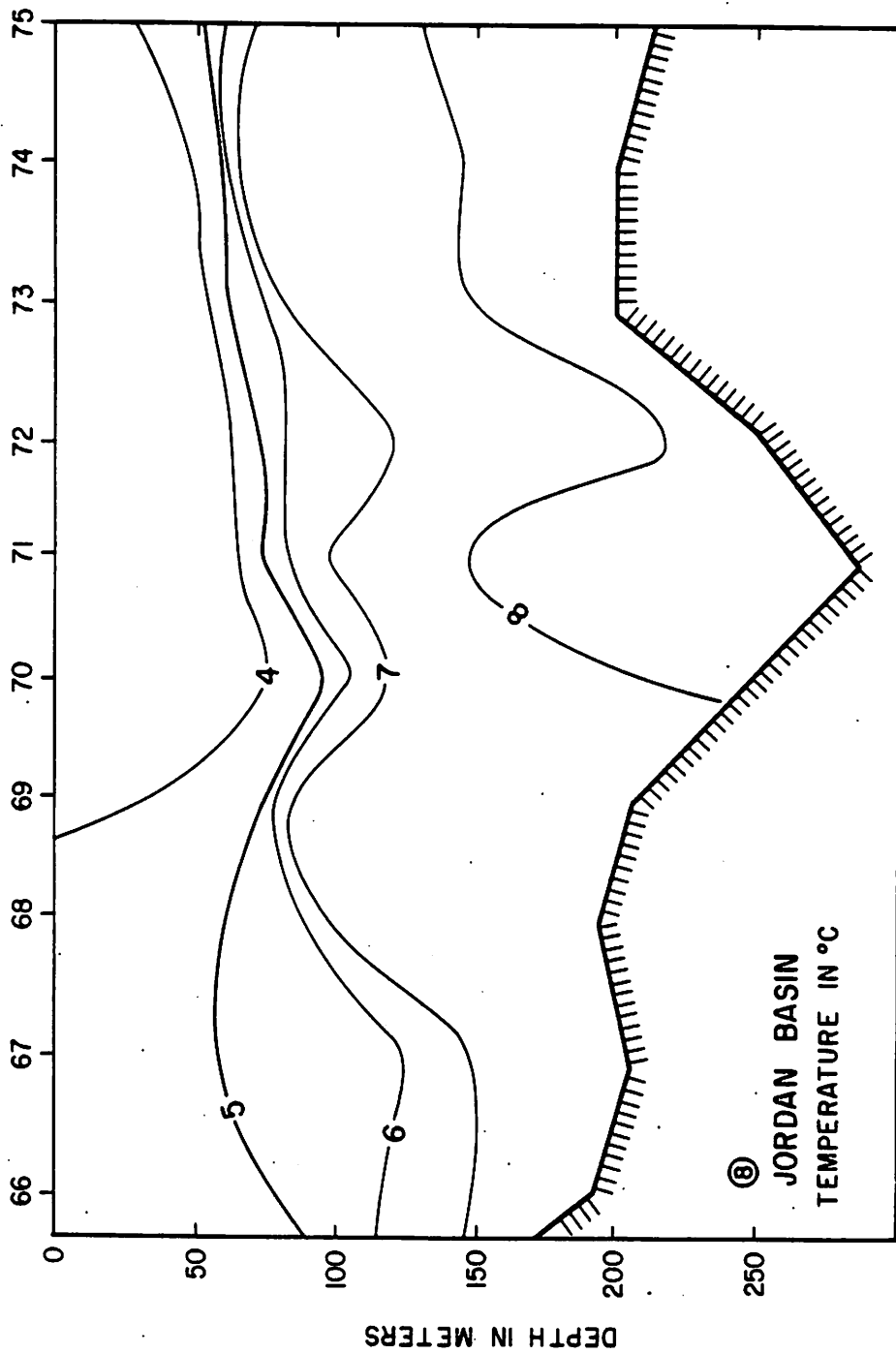


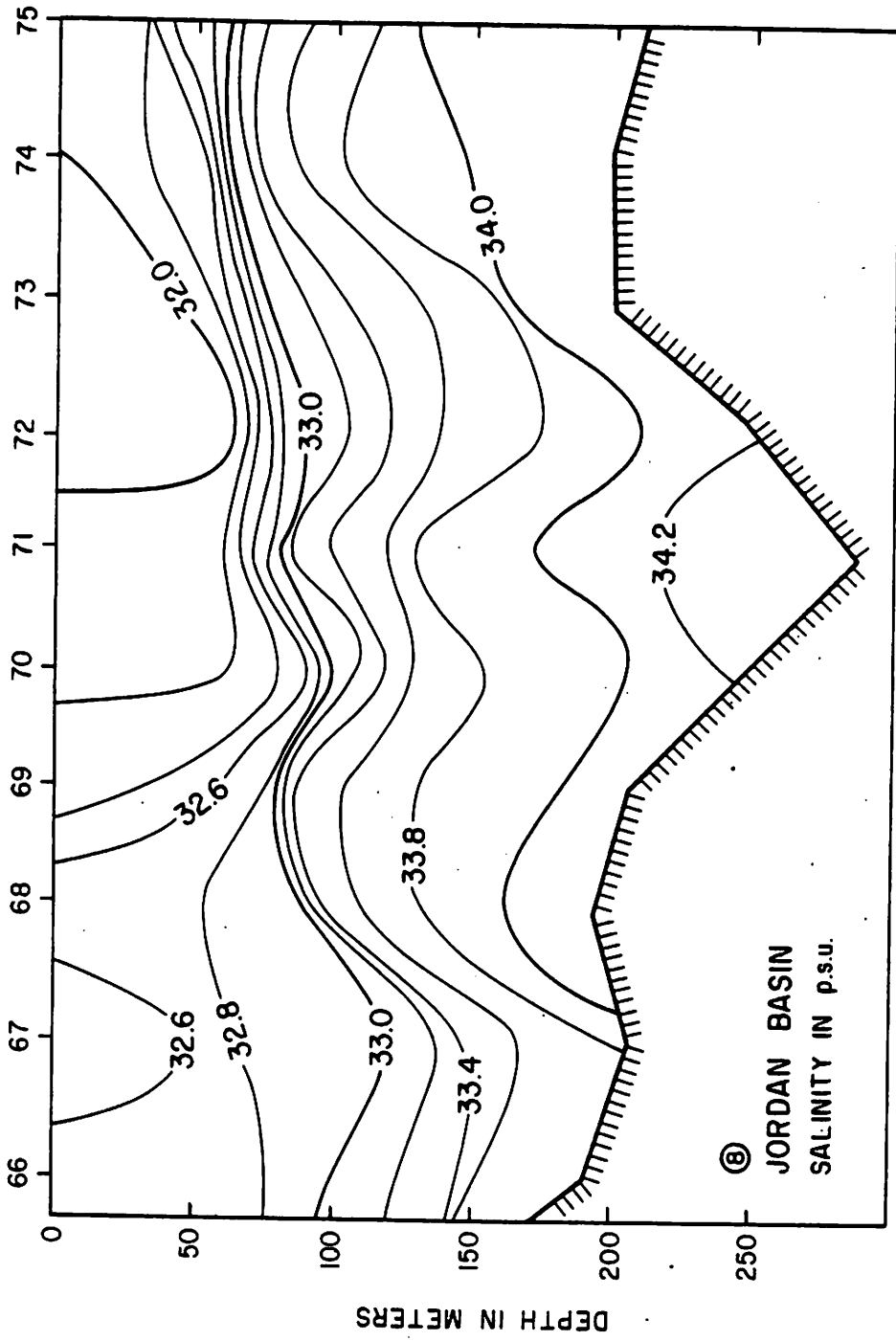


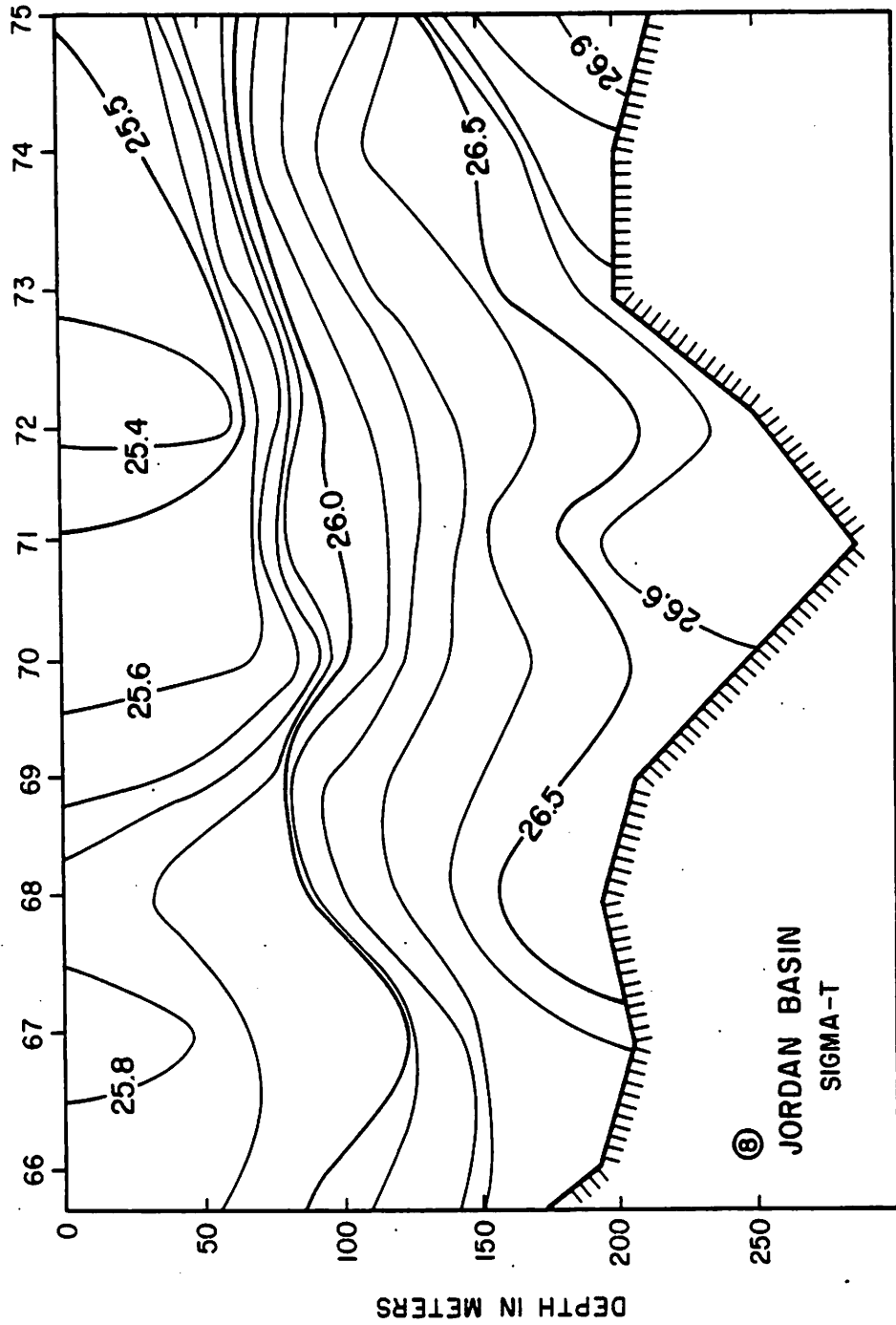




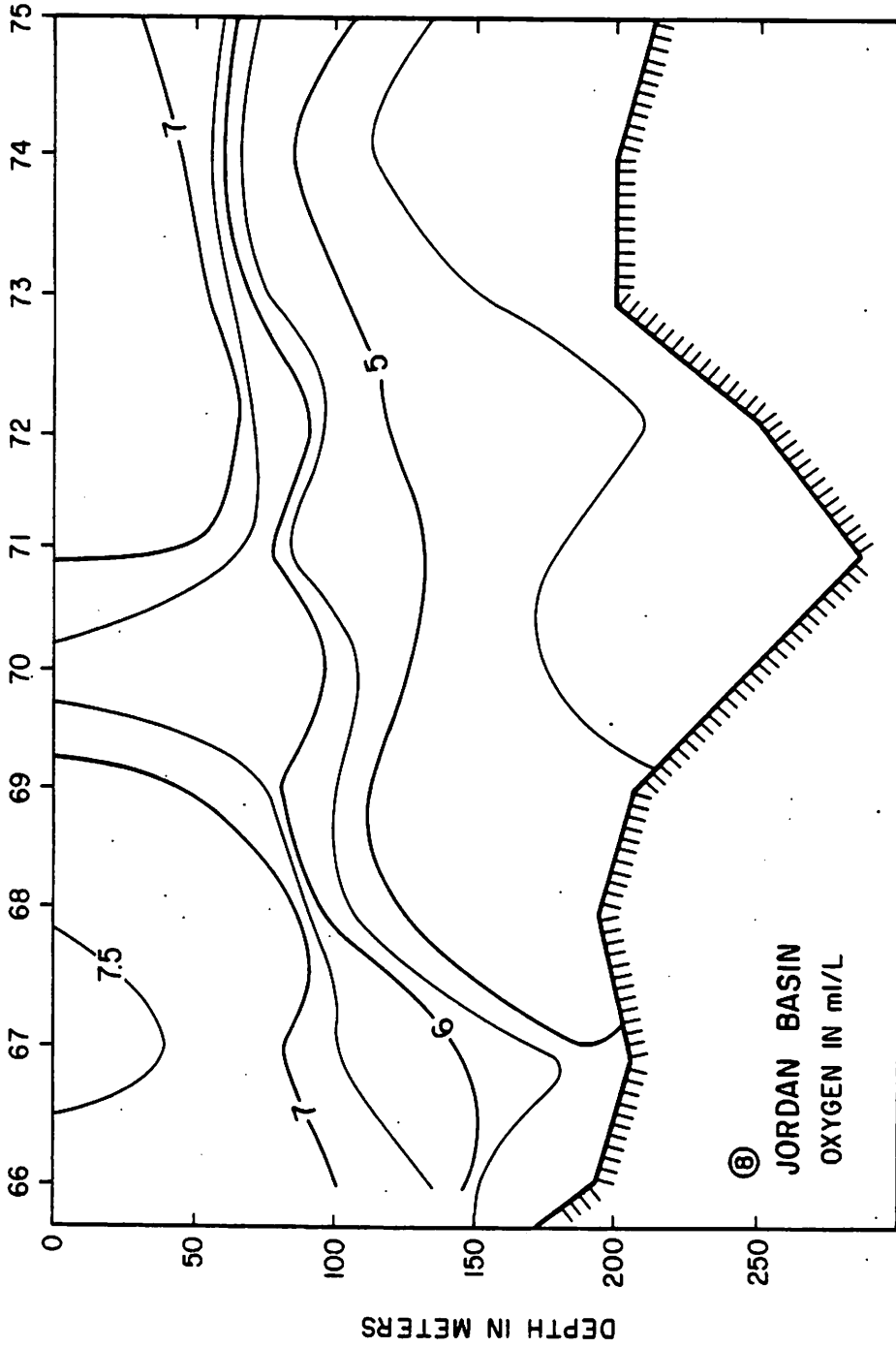




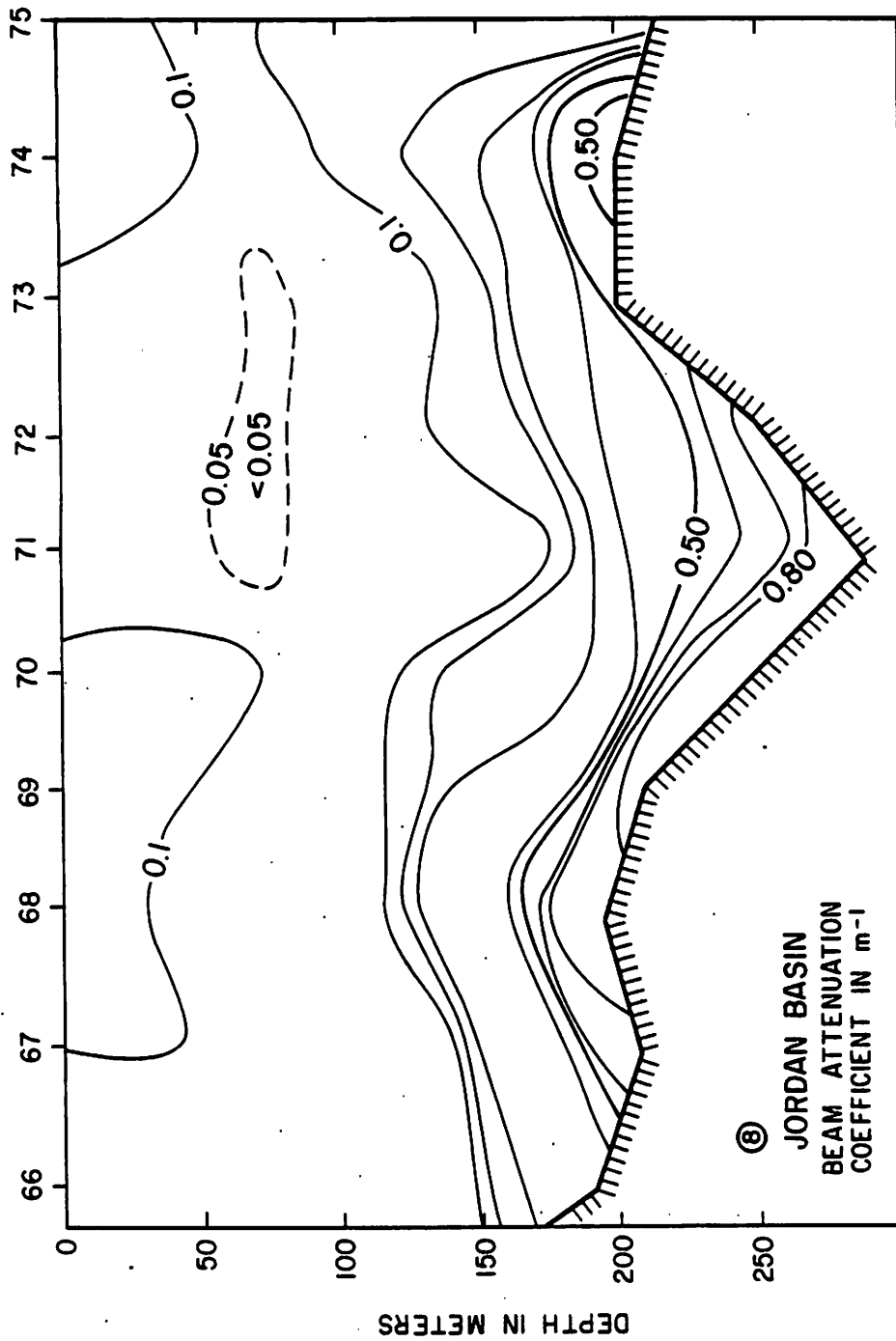


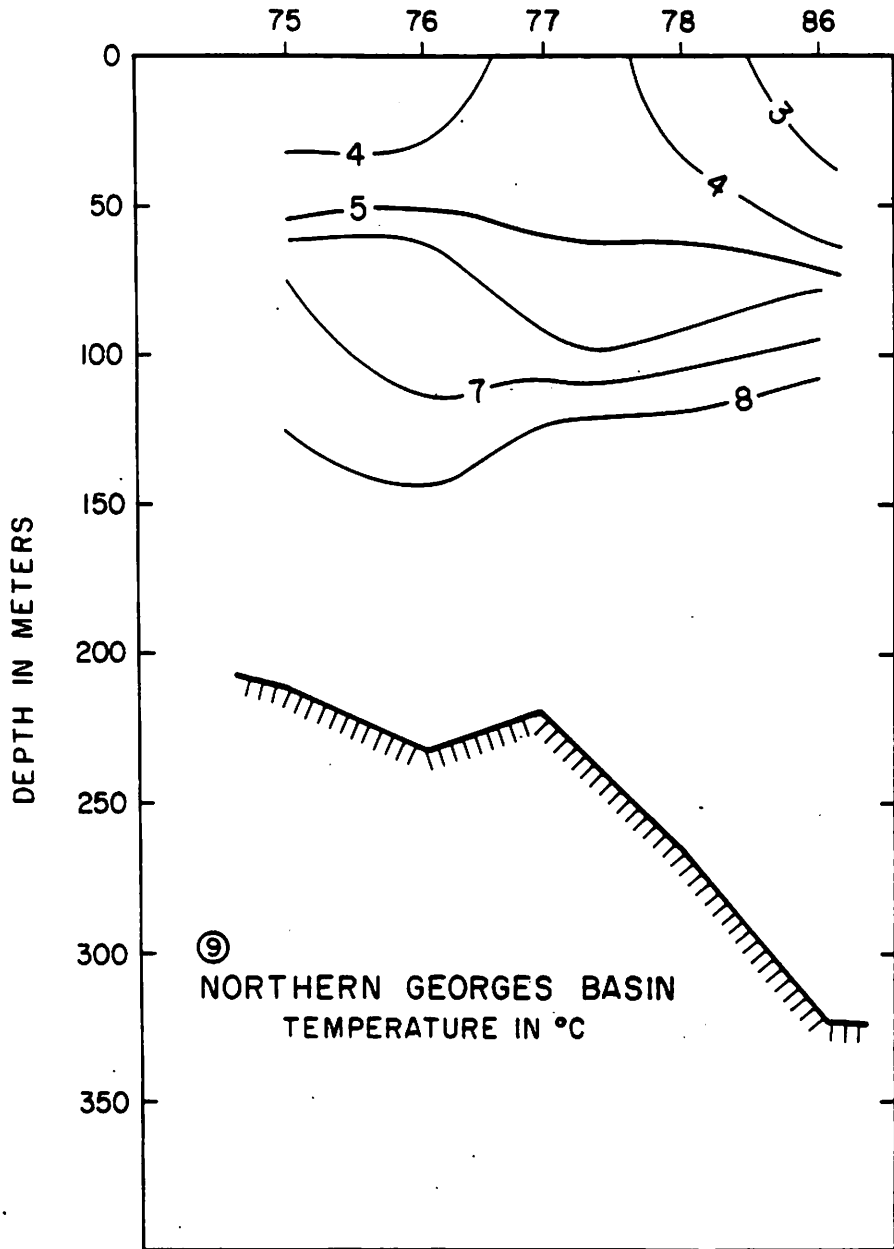


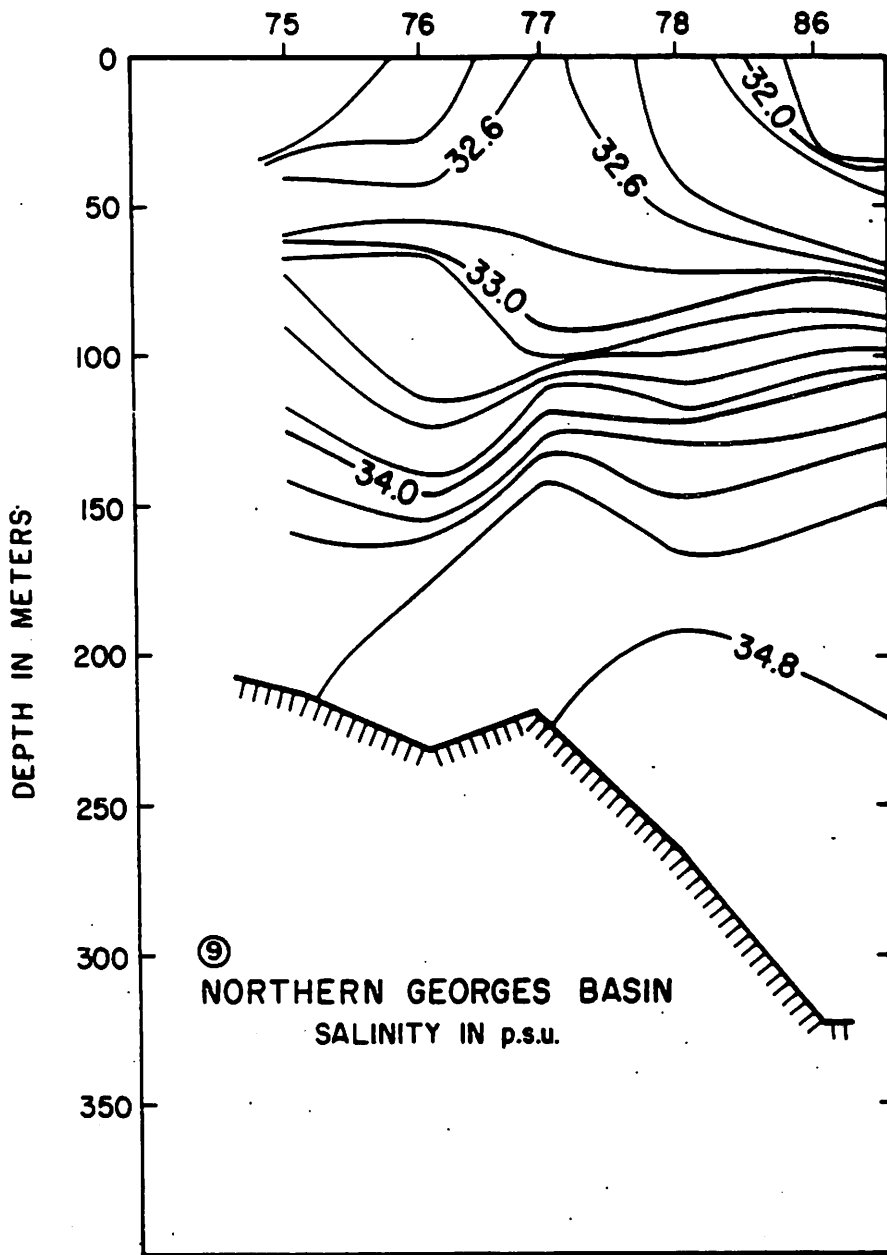
⑥
 JORDAN BASIN
 SIGMA-T

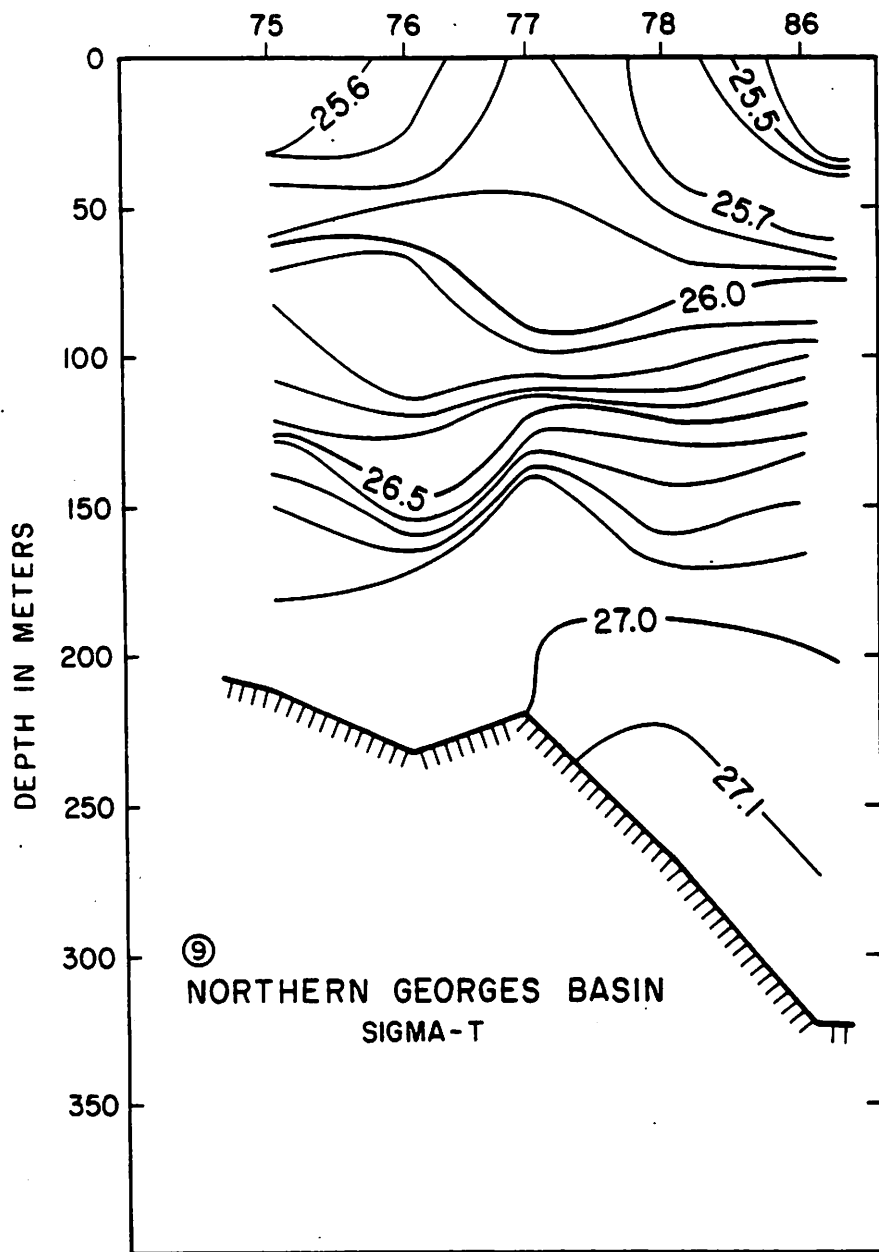


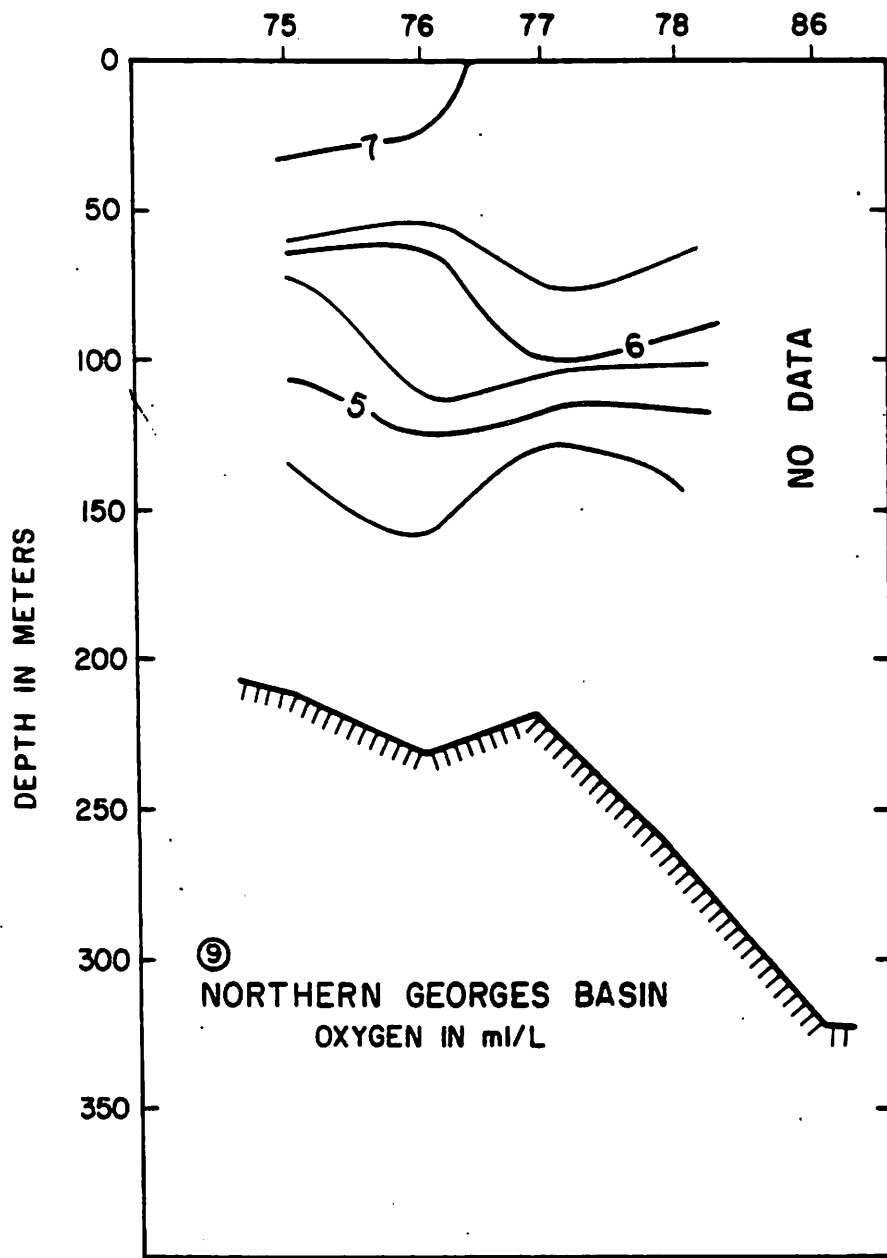
⑥ JORDAN BASIN
OXYGEN IN ml/L

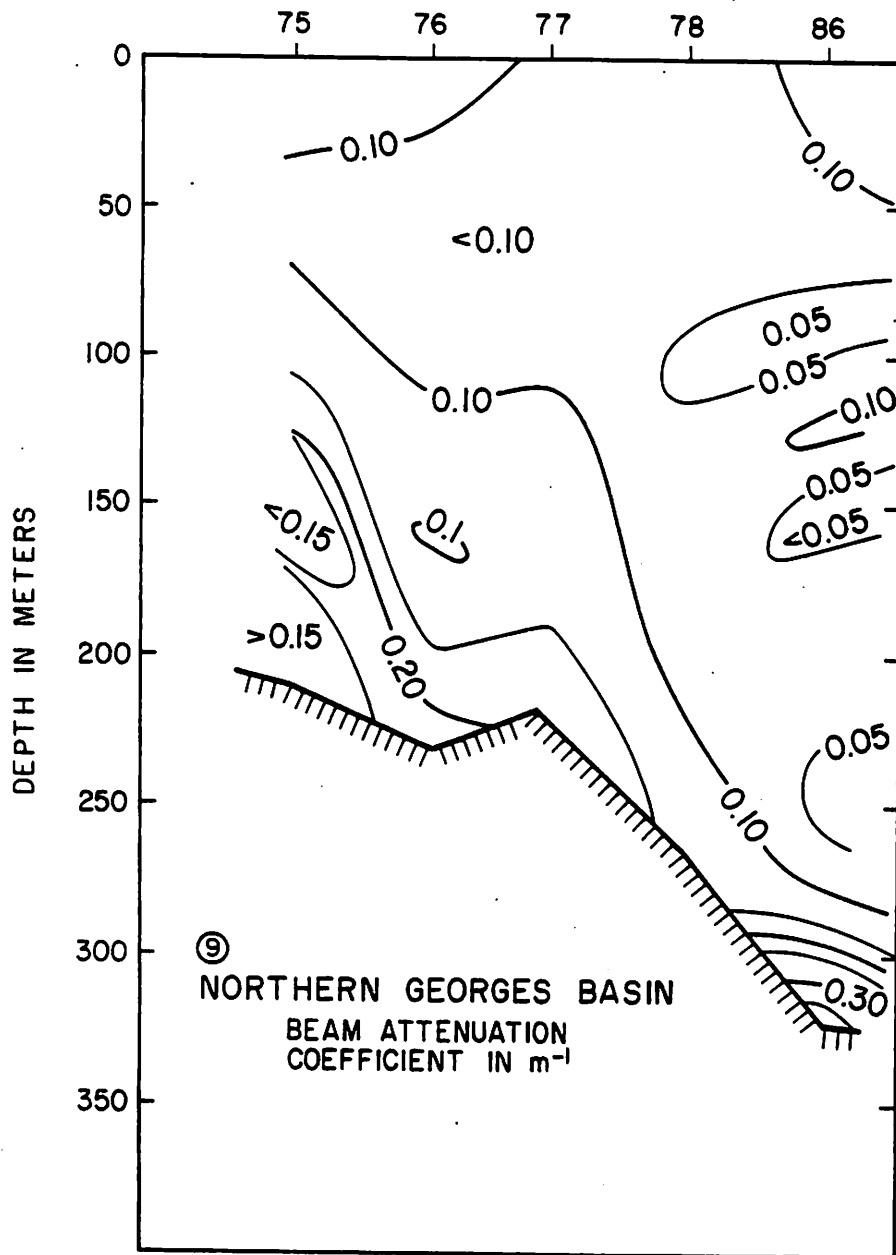


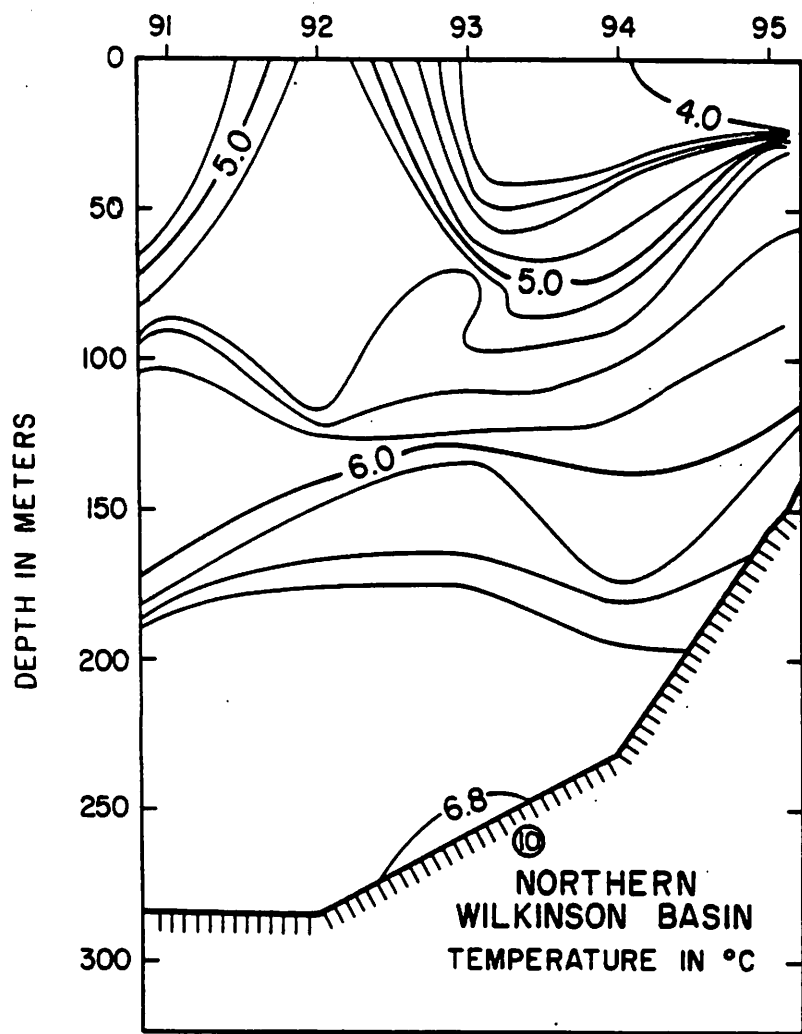


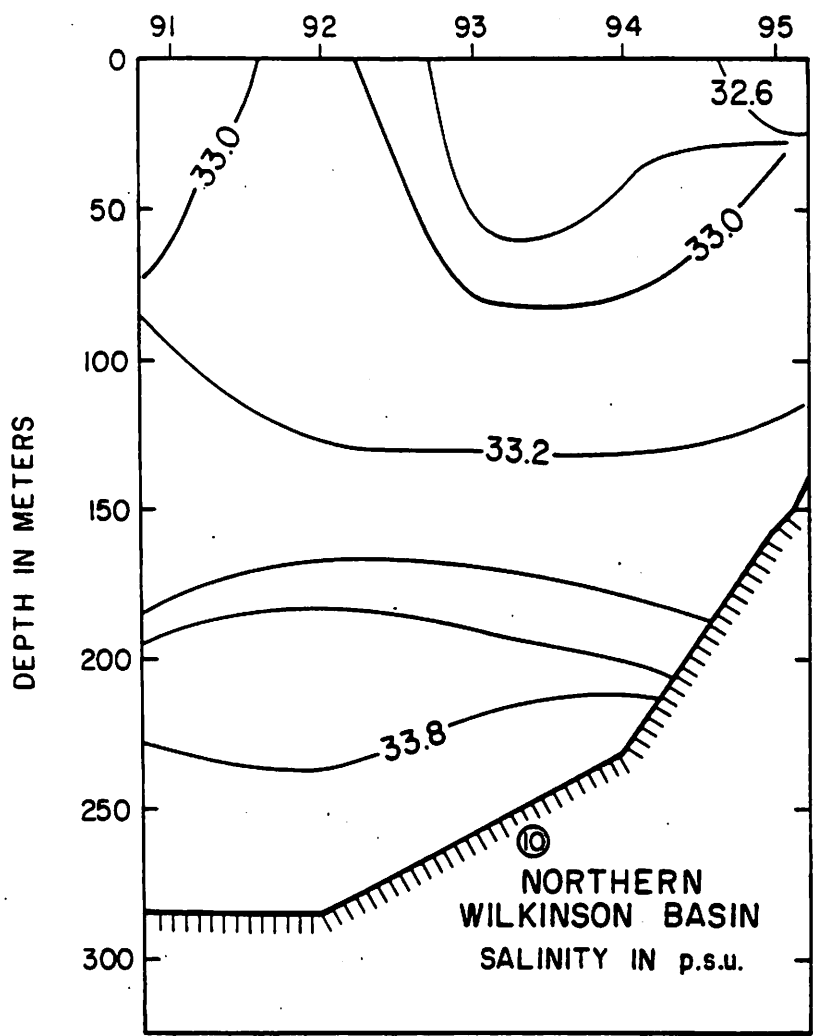


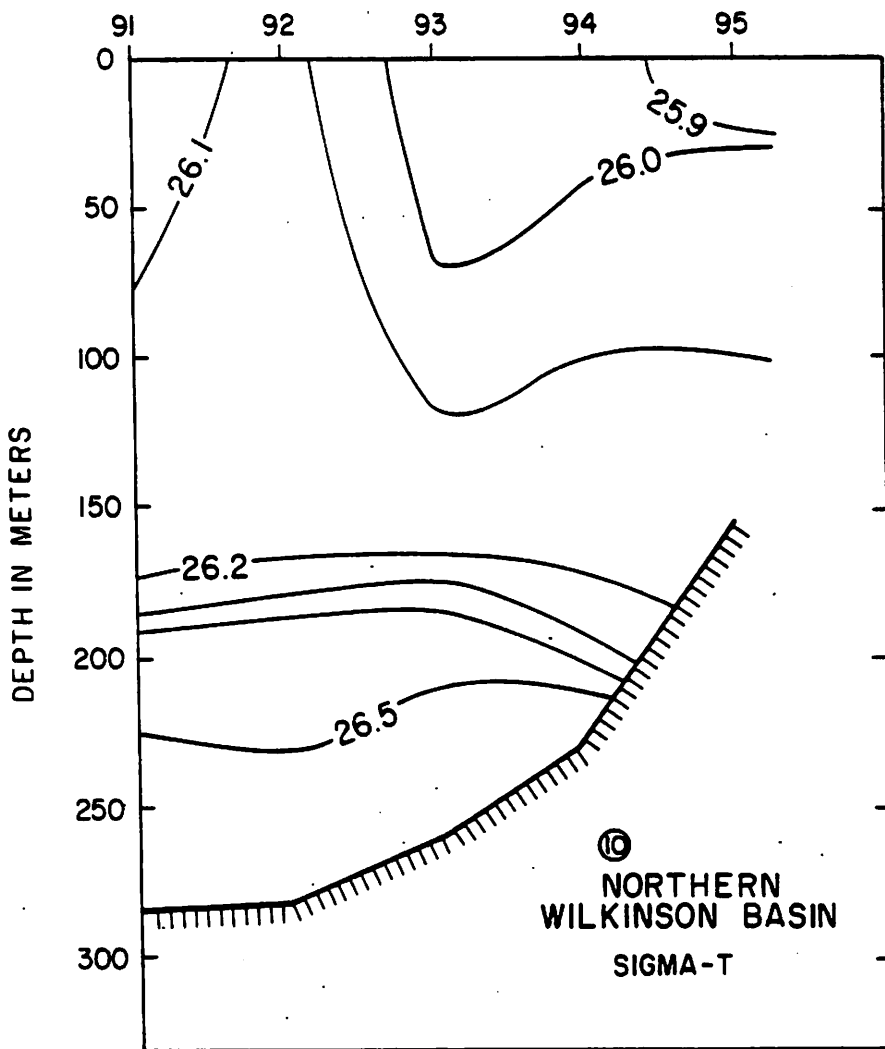


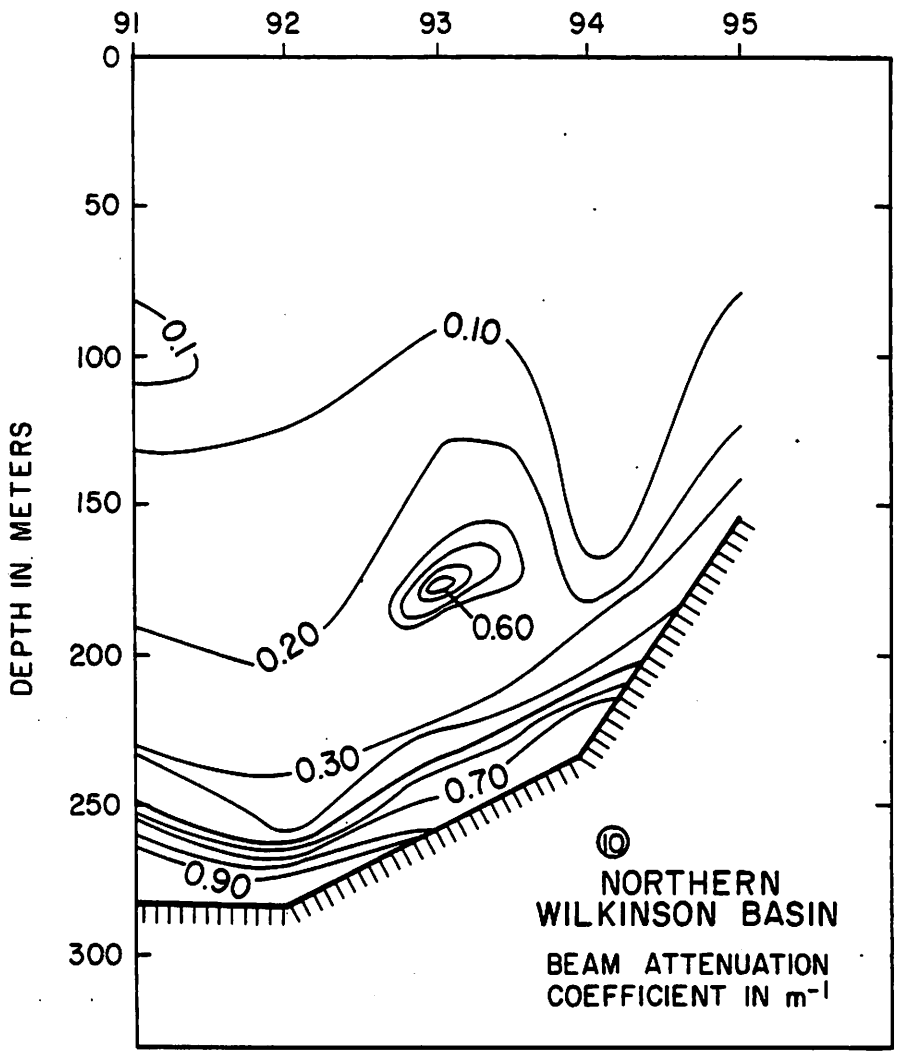








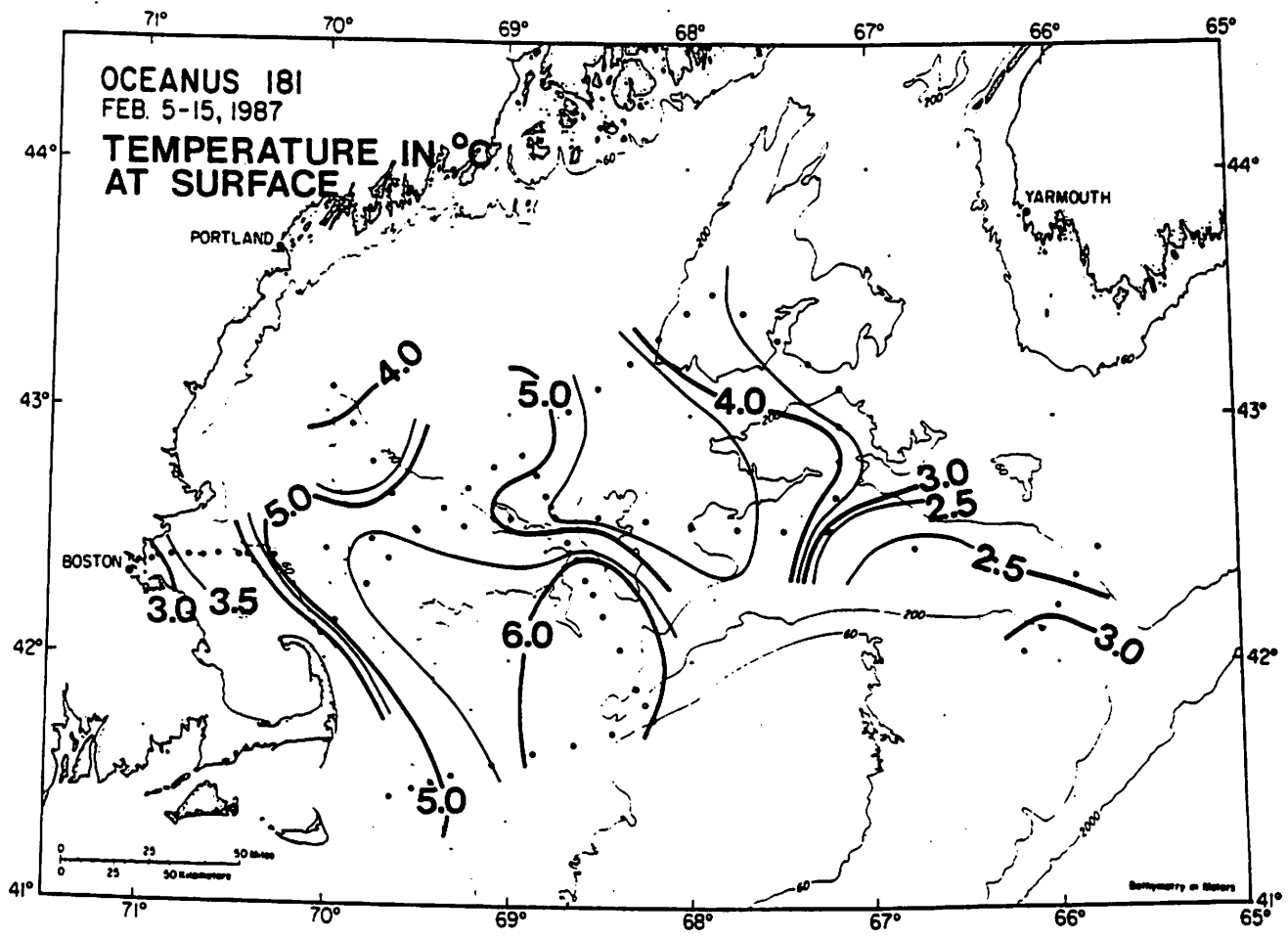


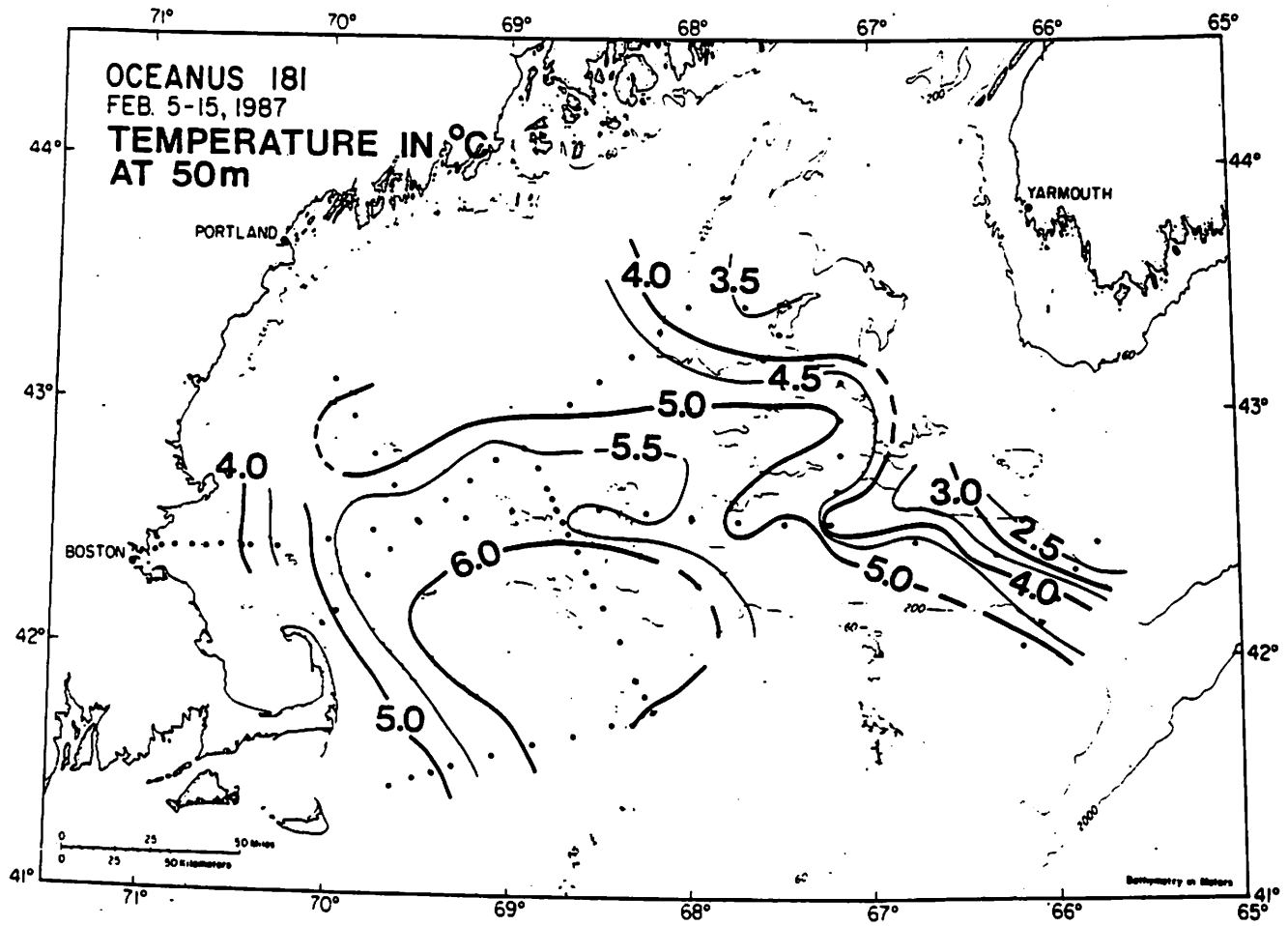


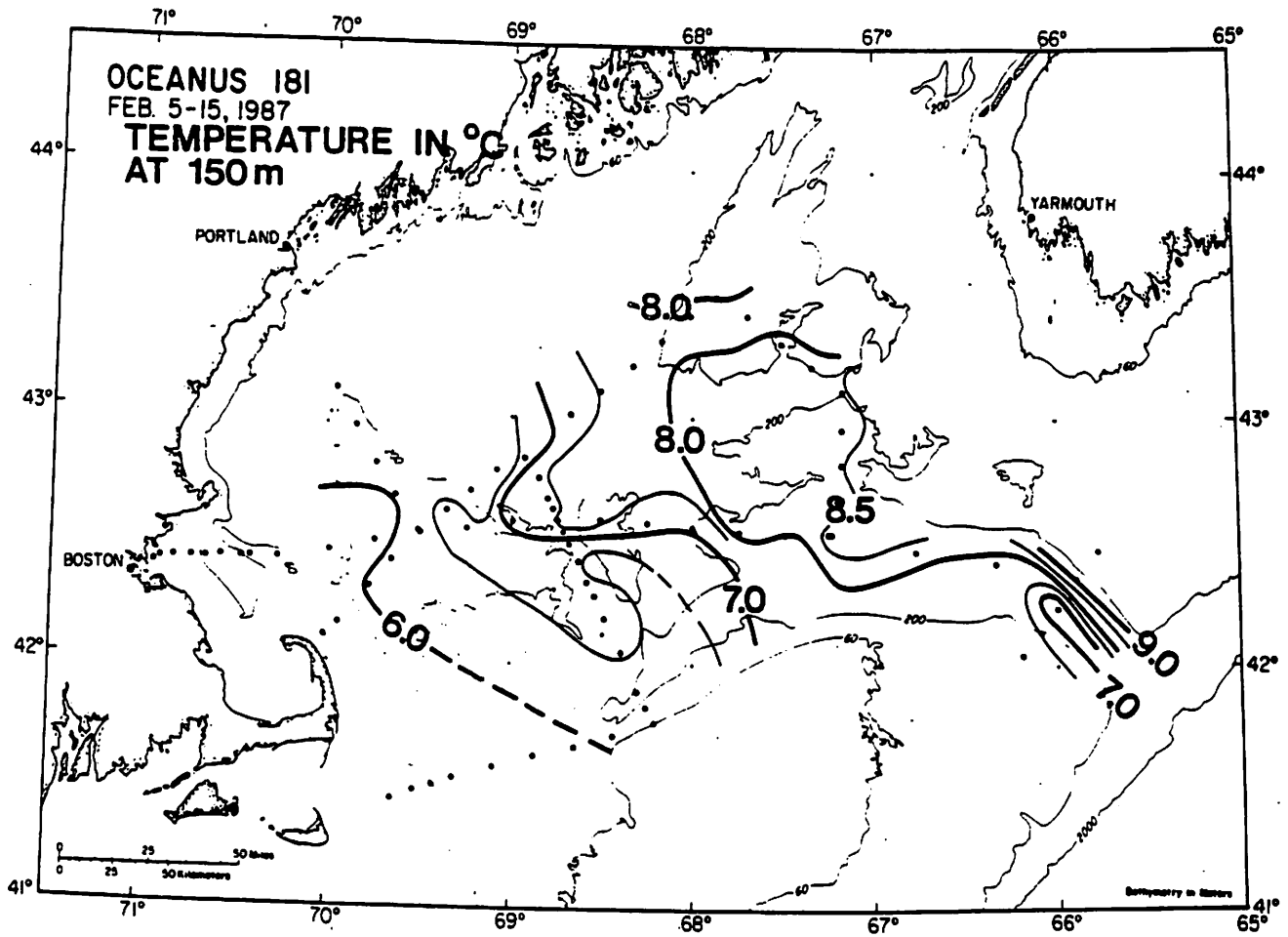
(10)
 NORTHERN
 WILKINSON BASIN
 BEAM ATTENUATION
 COEFFICIENT IN m^{-1}

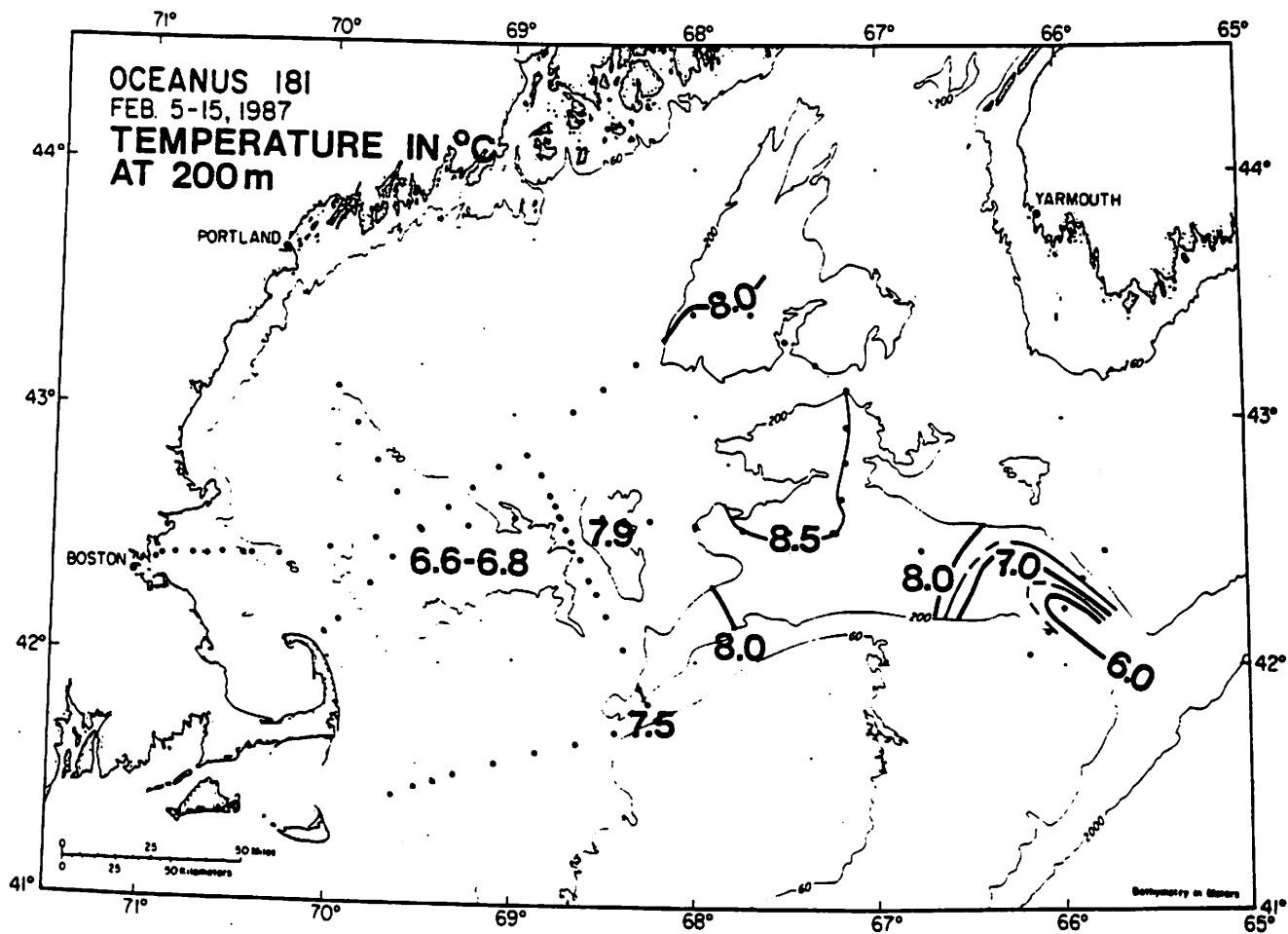
Horizontal sections

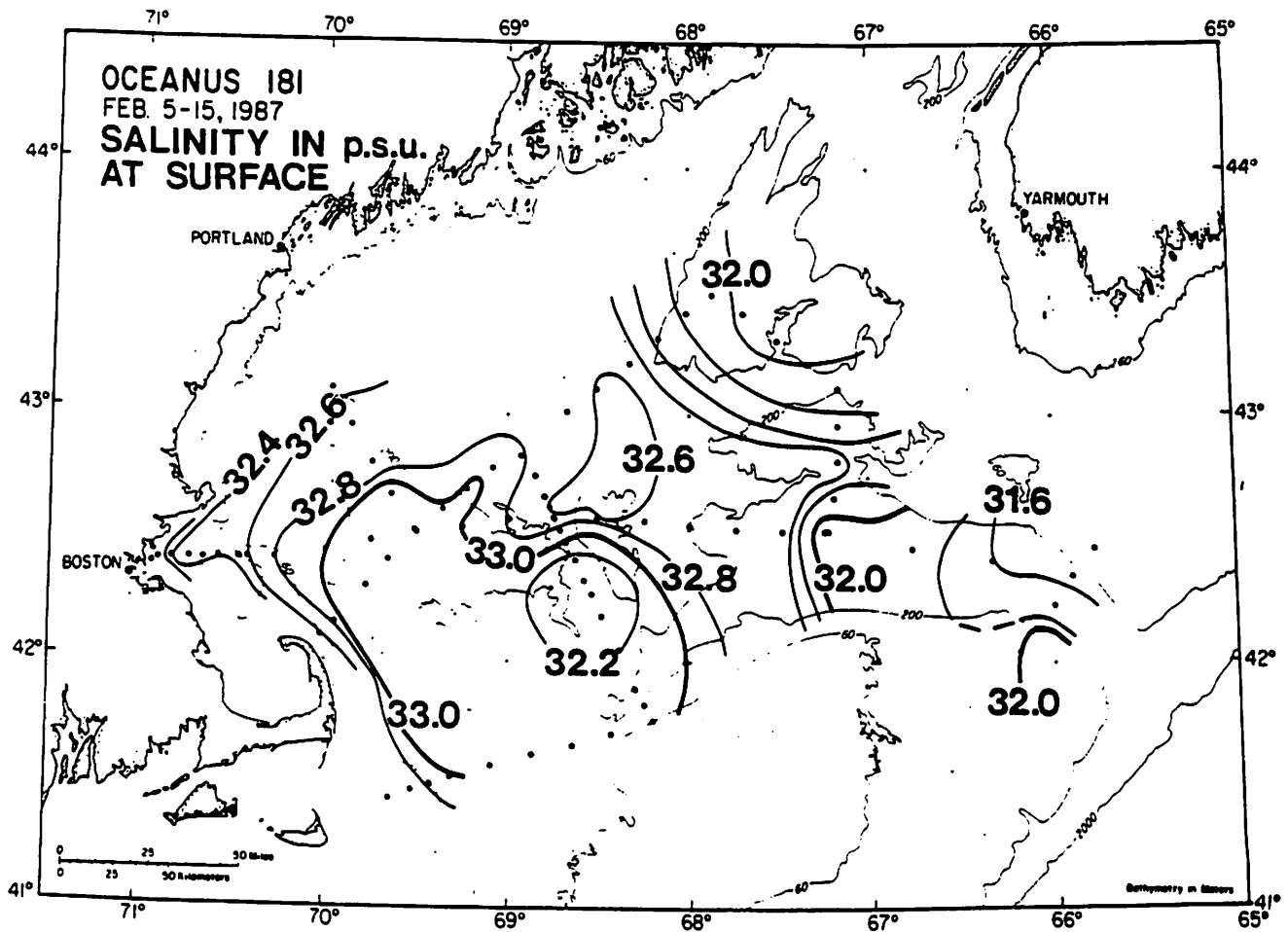
Horizontal sections were constructed on the surface, 50-, 150- and 200-dbar pressure surfaces for temperature, salinity, density, oxygen, and light attenuation coefficient. Dots indicate the location of stations that were used in contouring the section and all sections were contoured by hand.

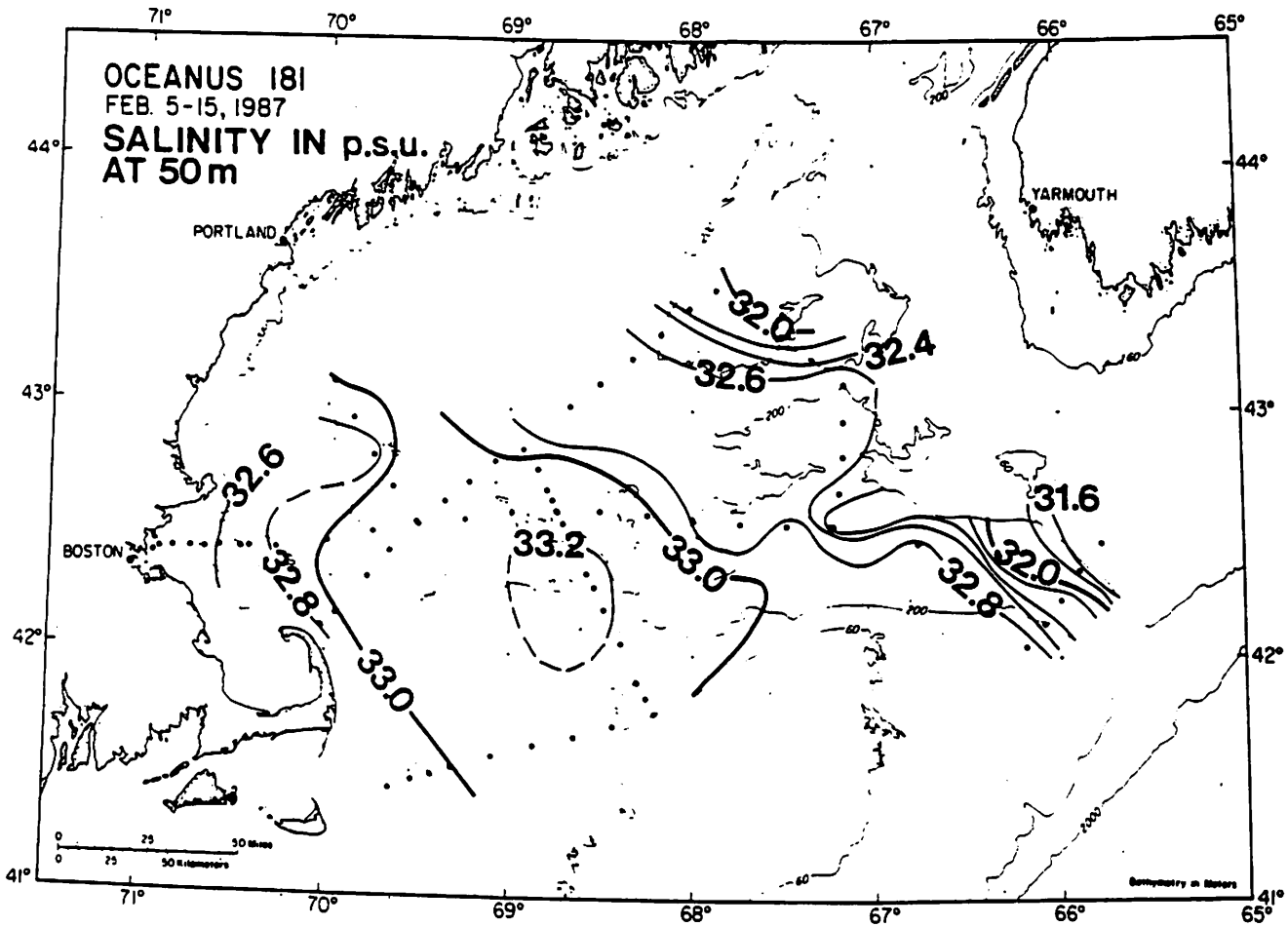


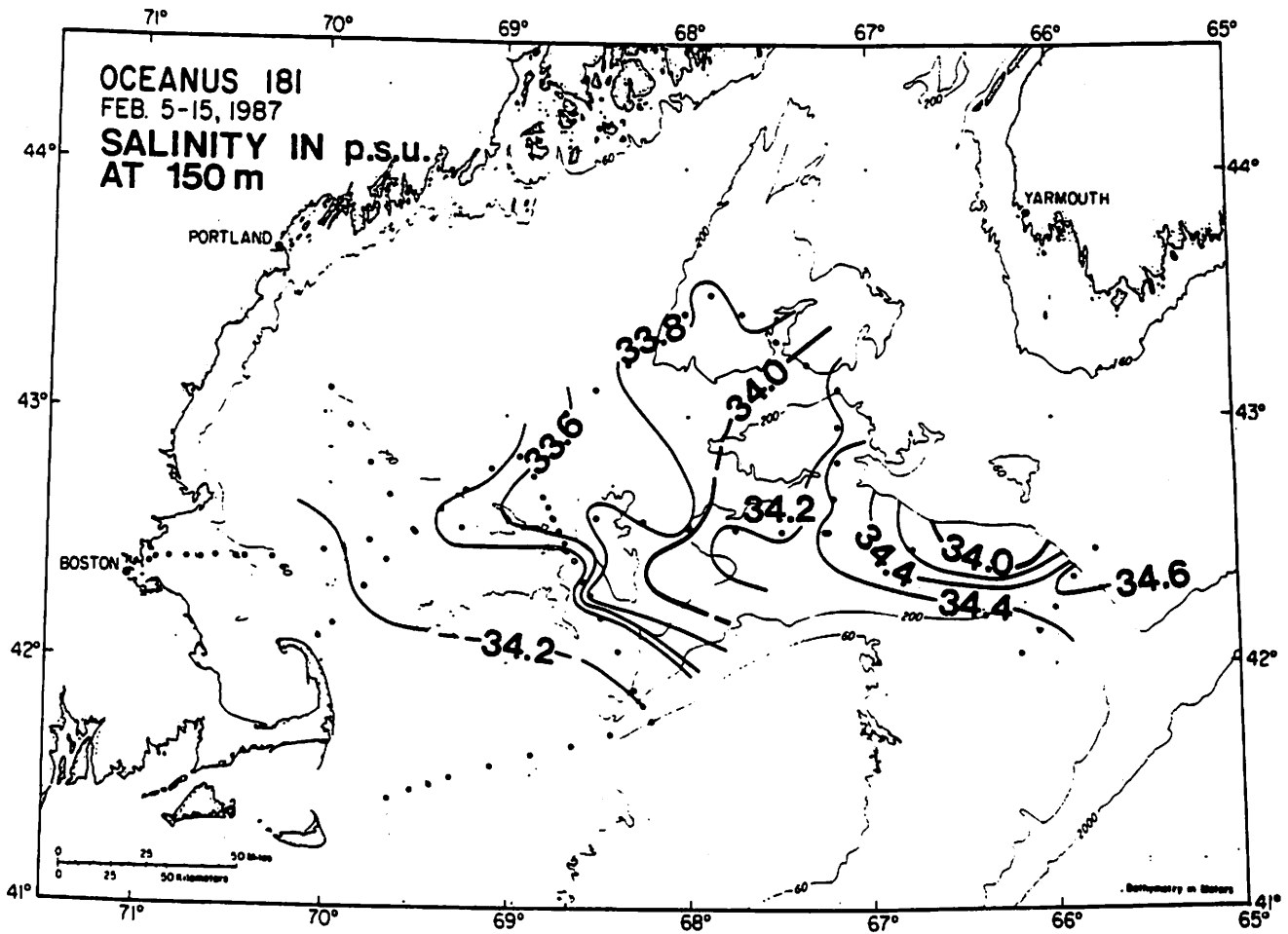


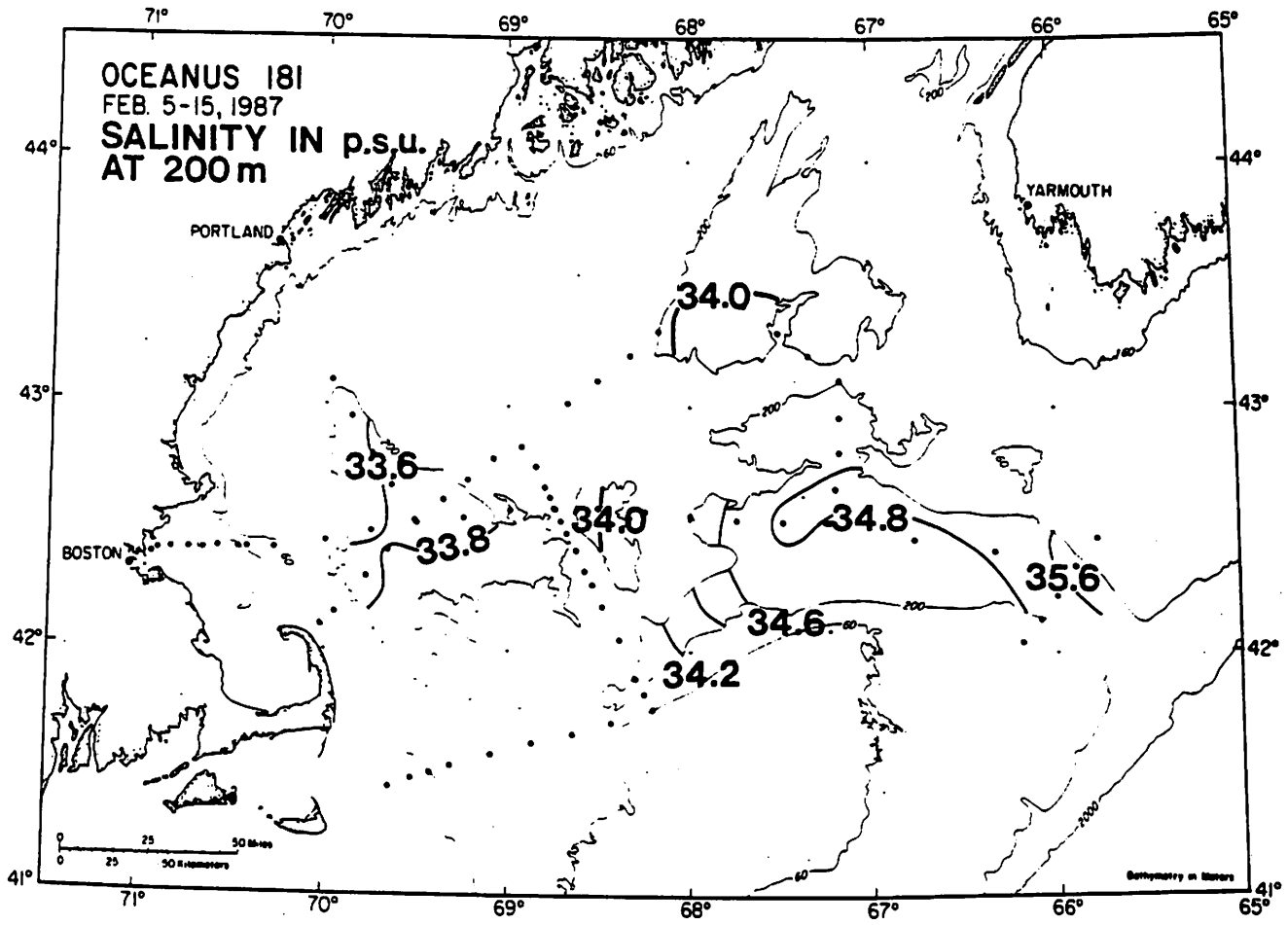


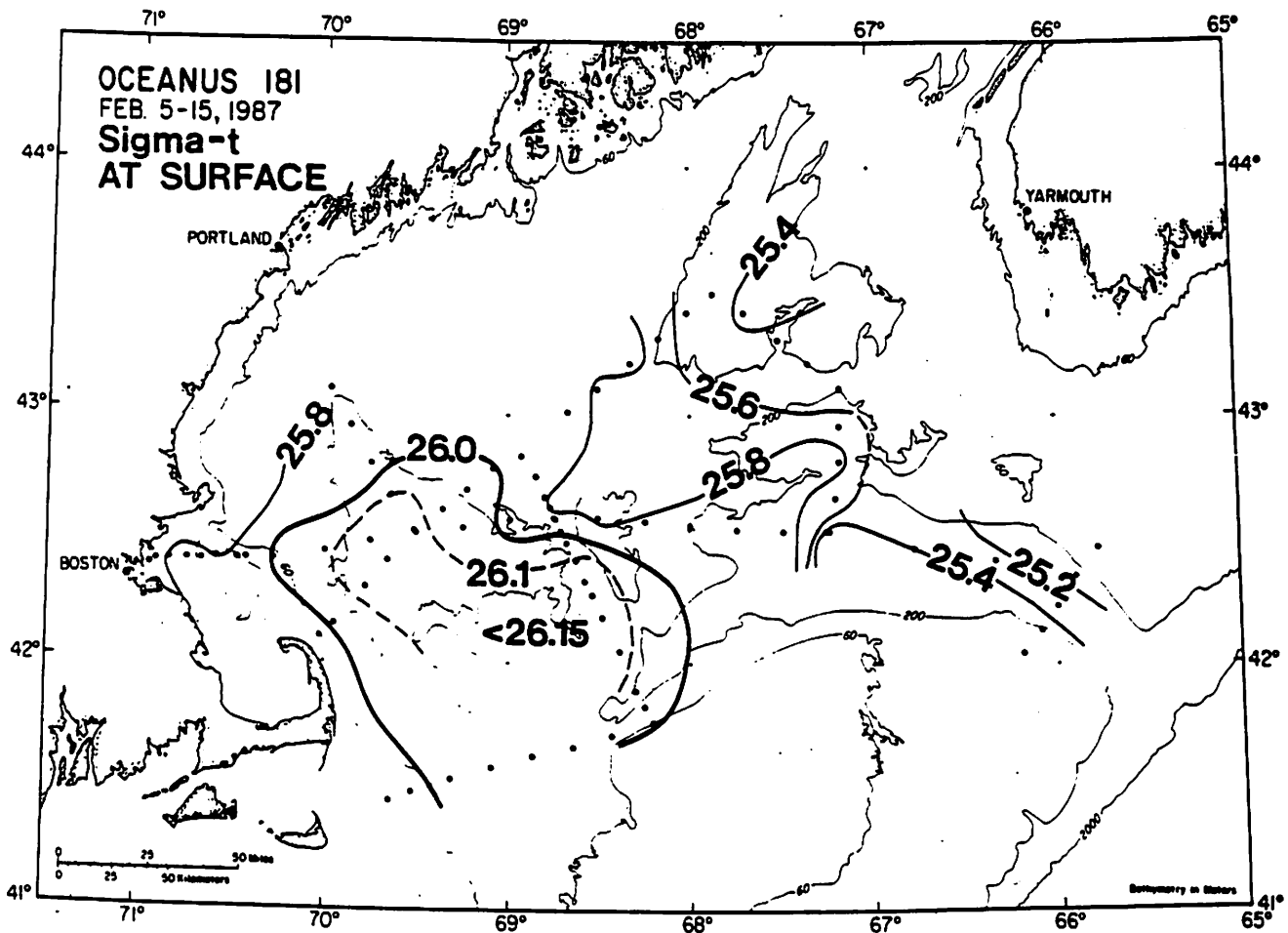


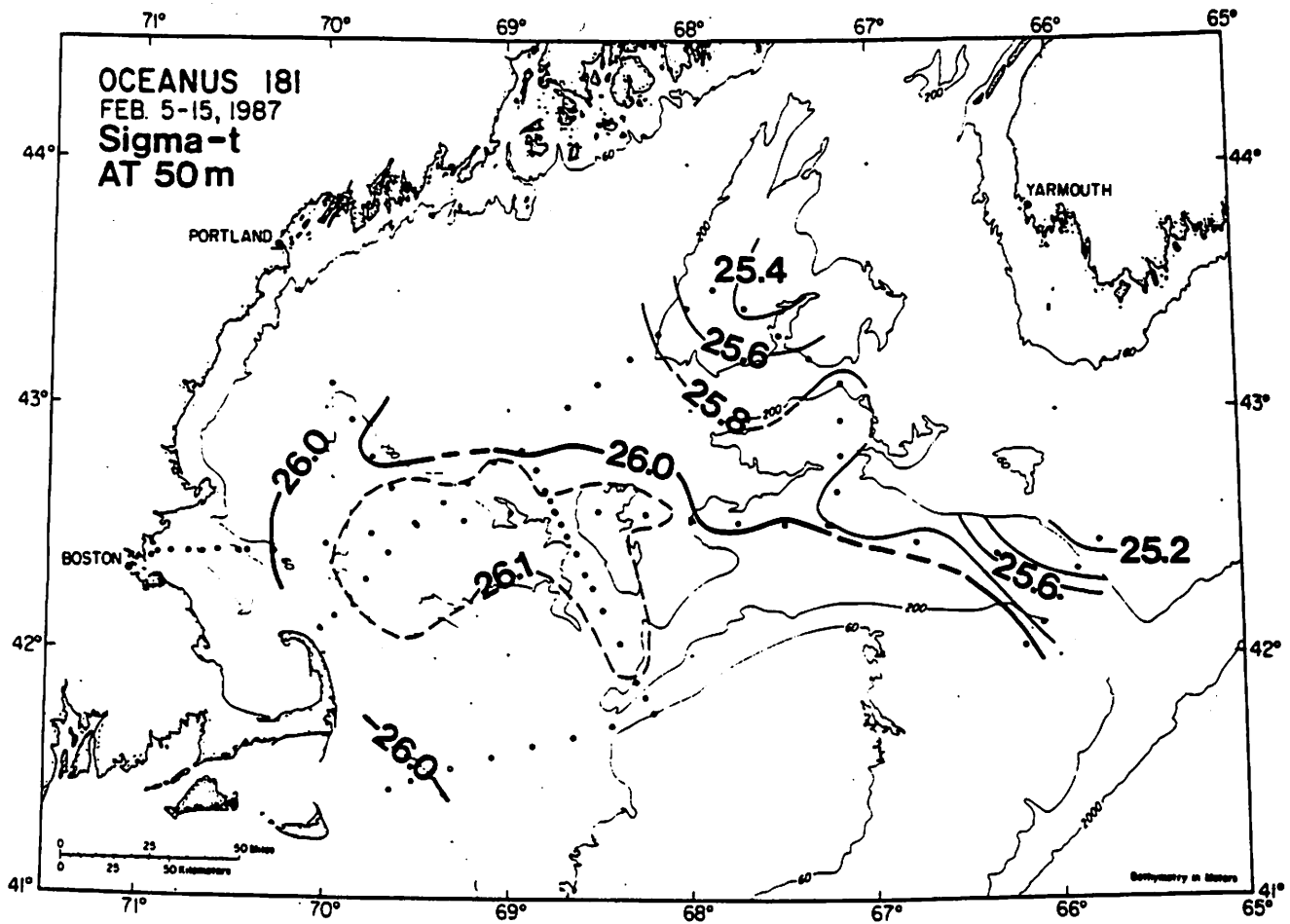


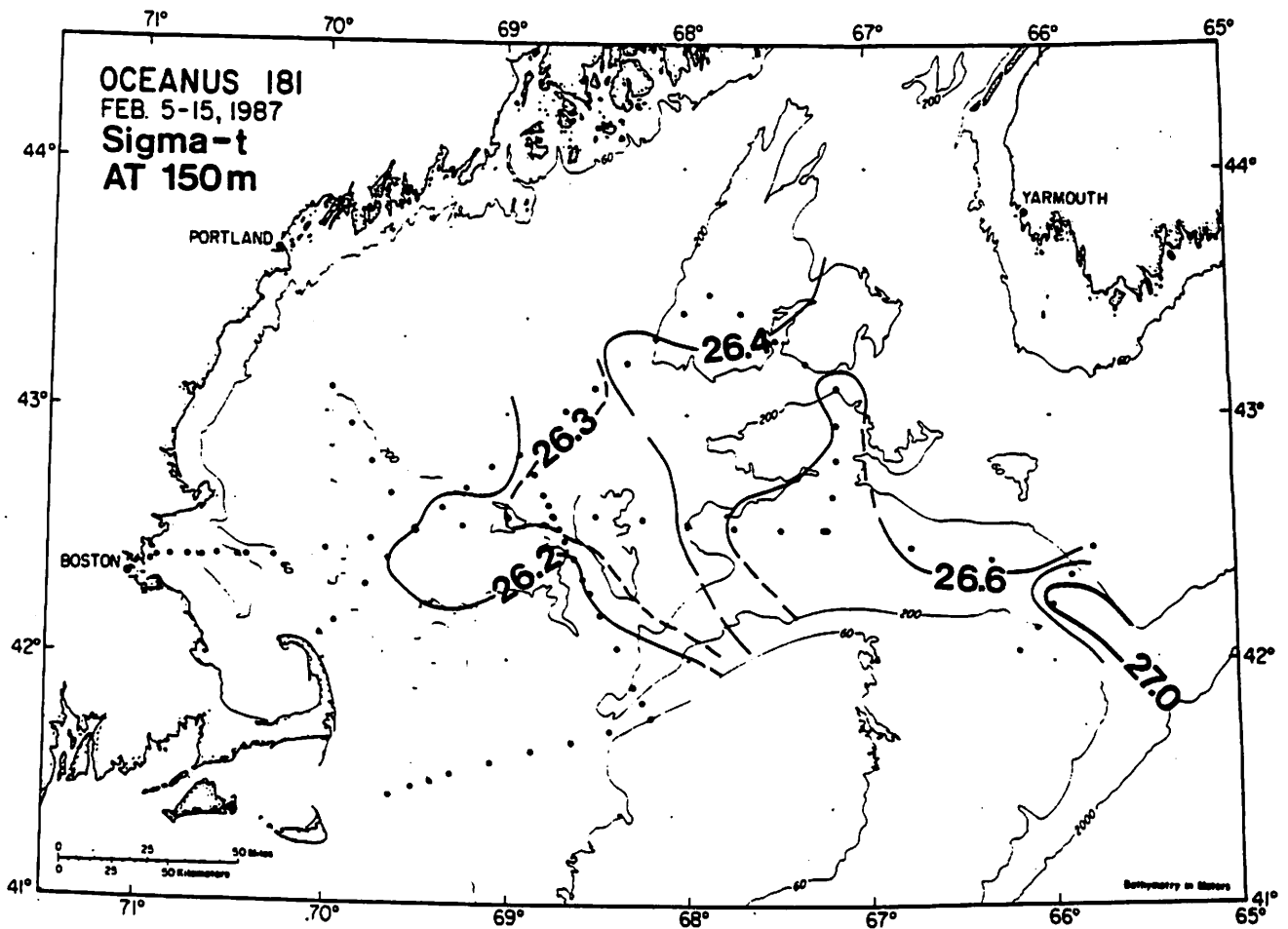


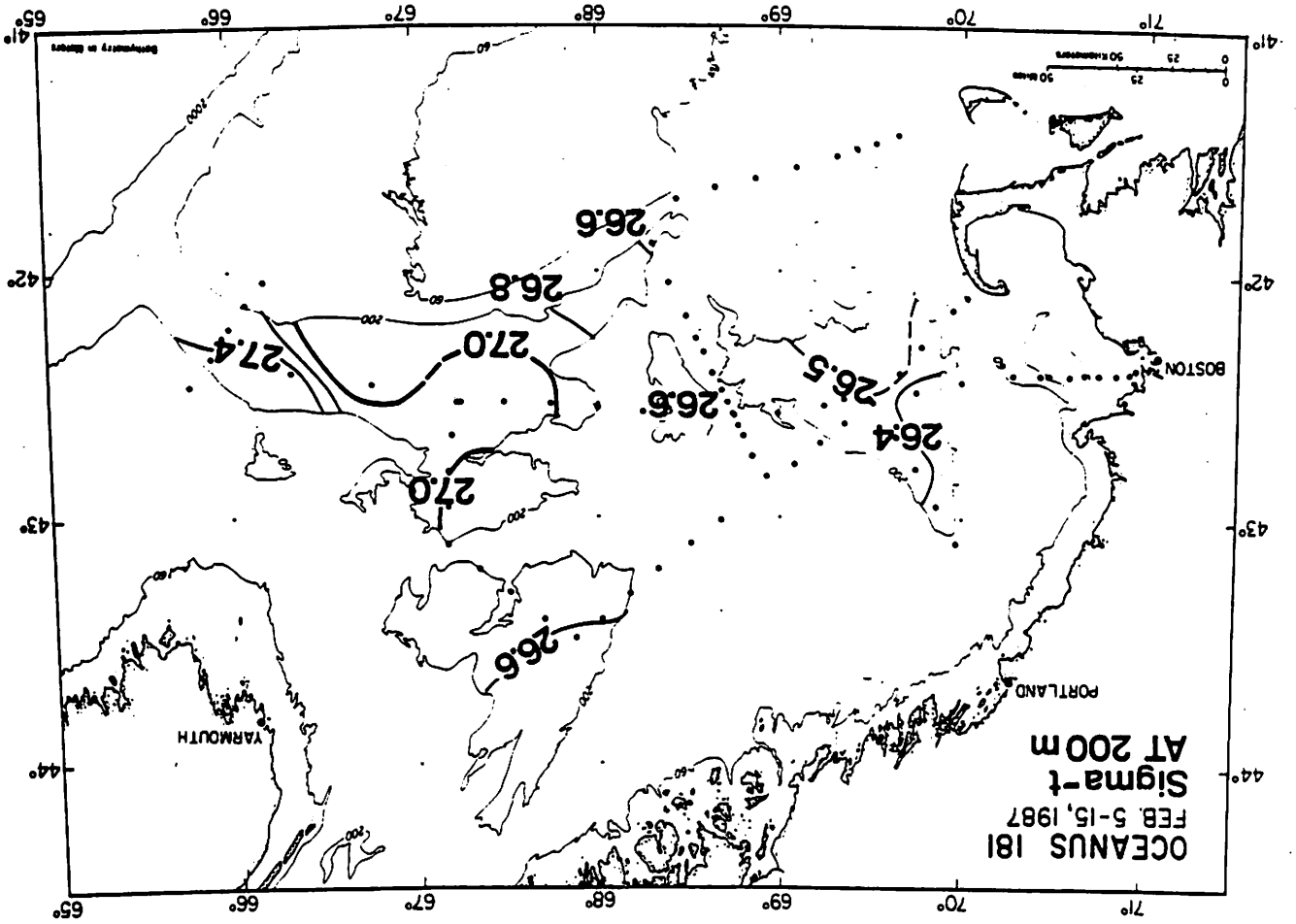


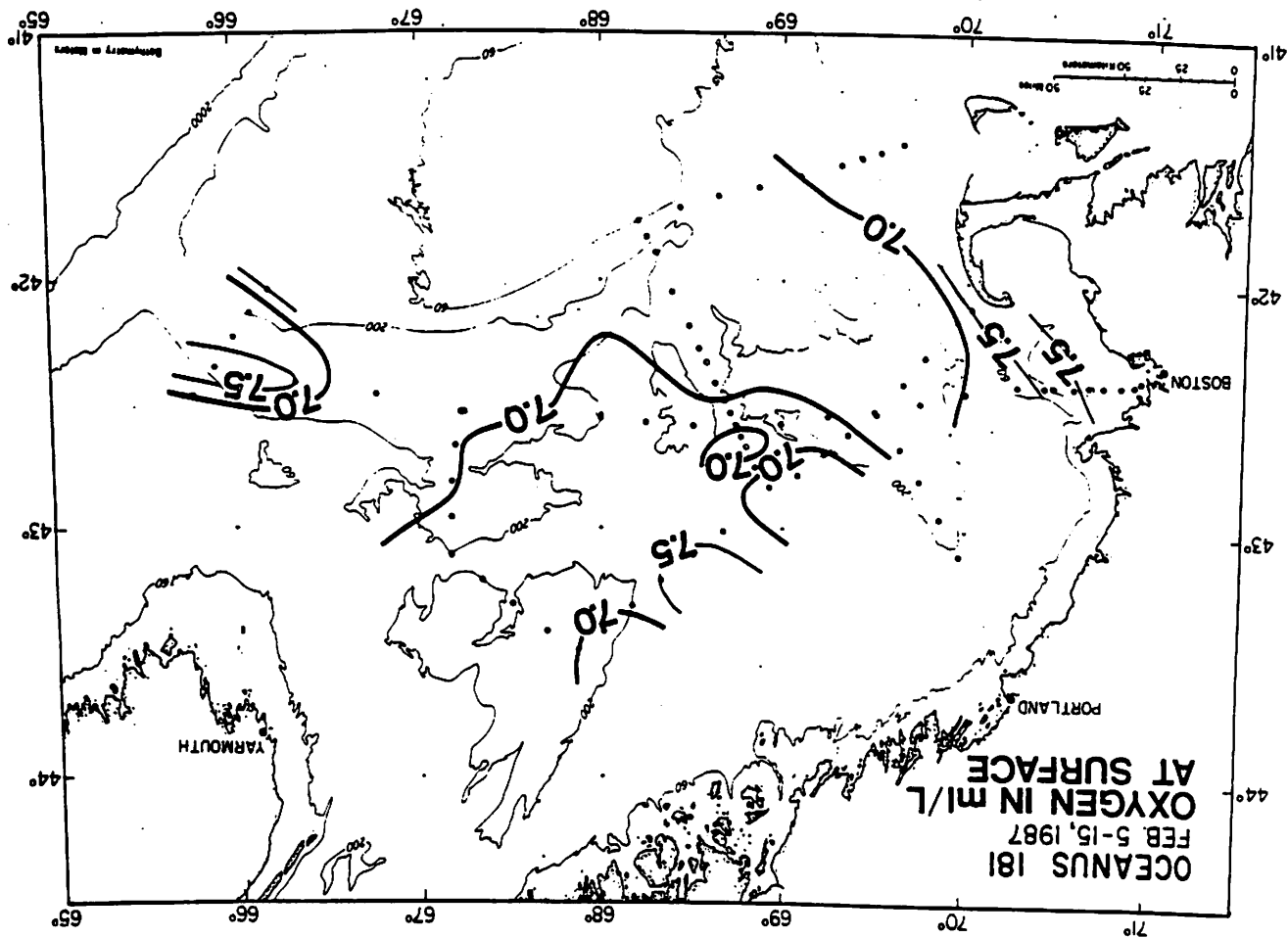


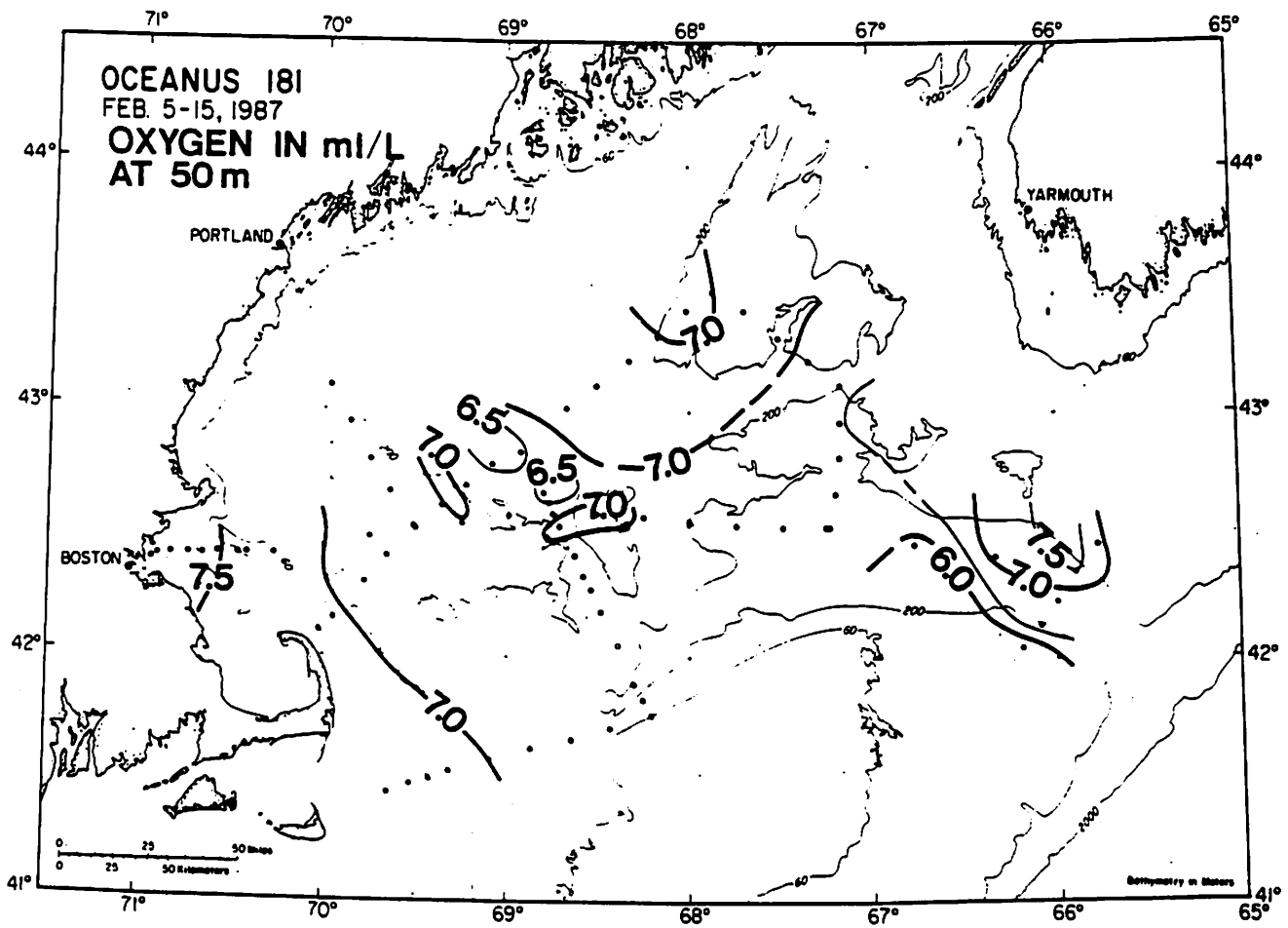


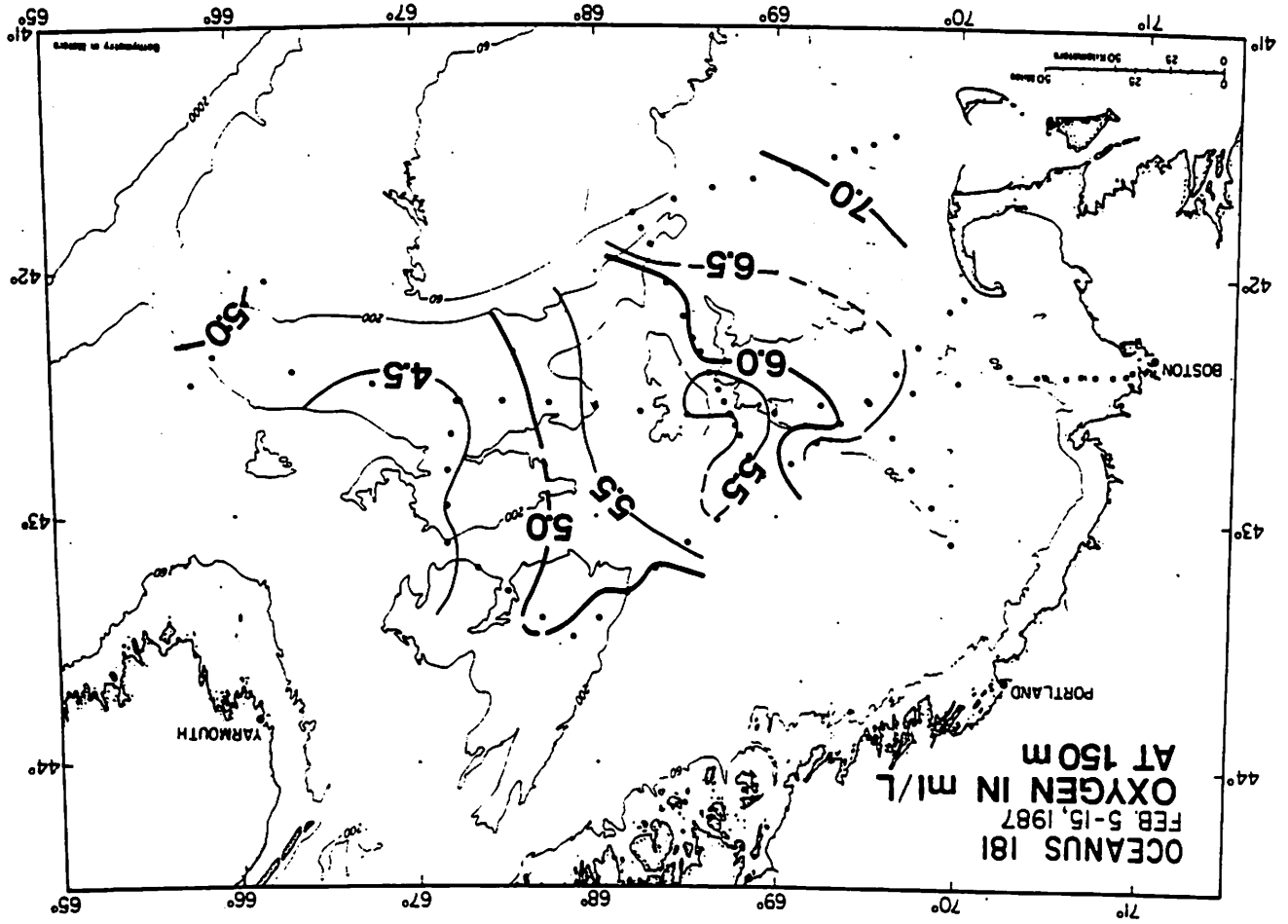


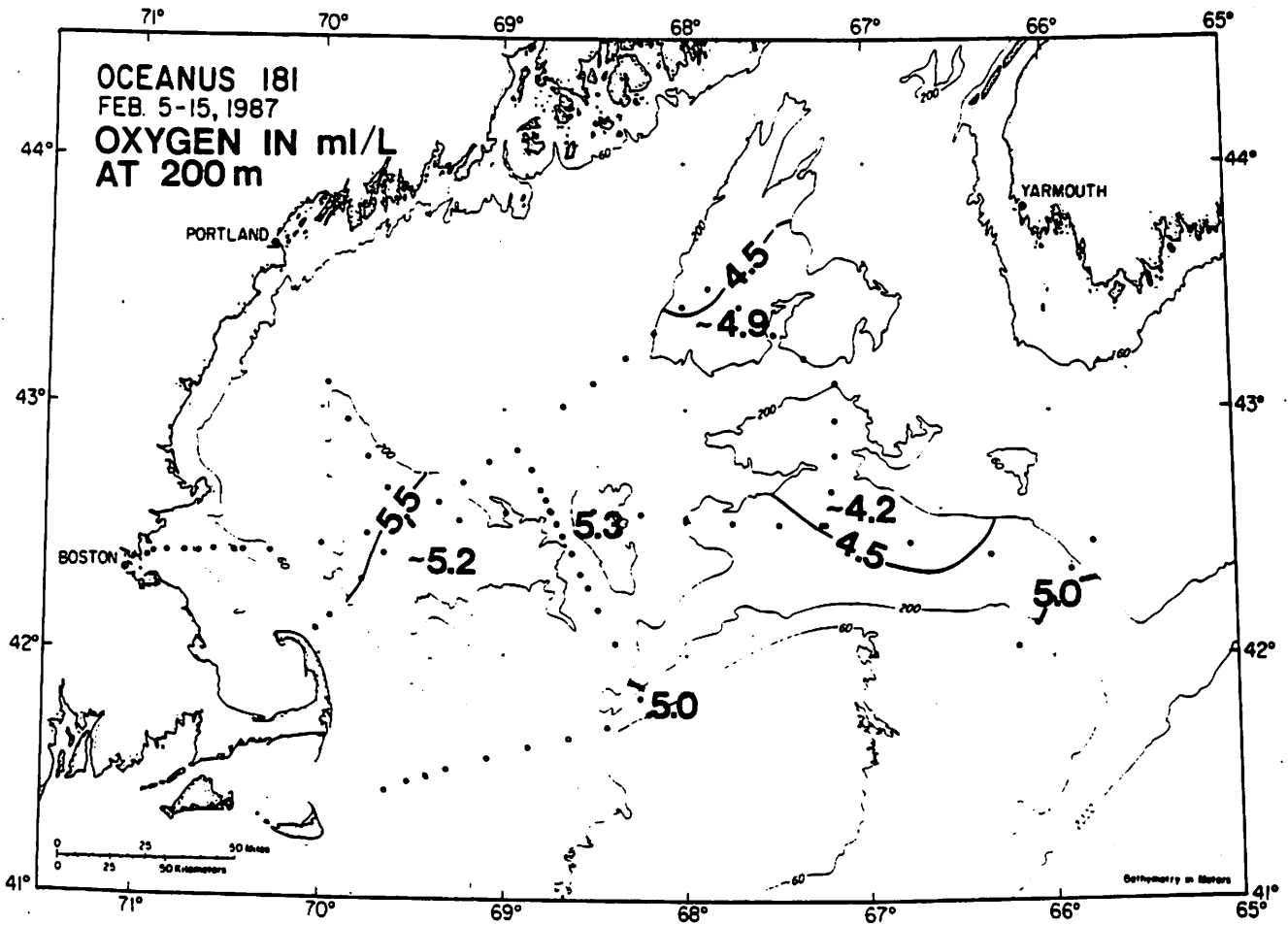


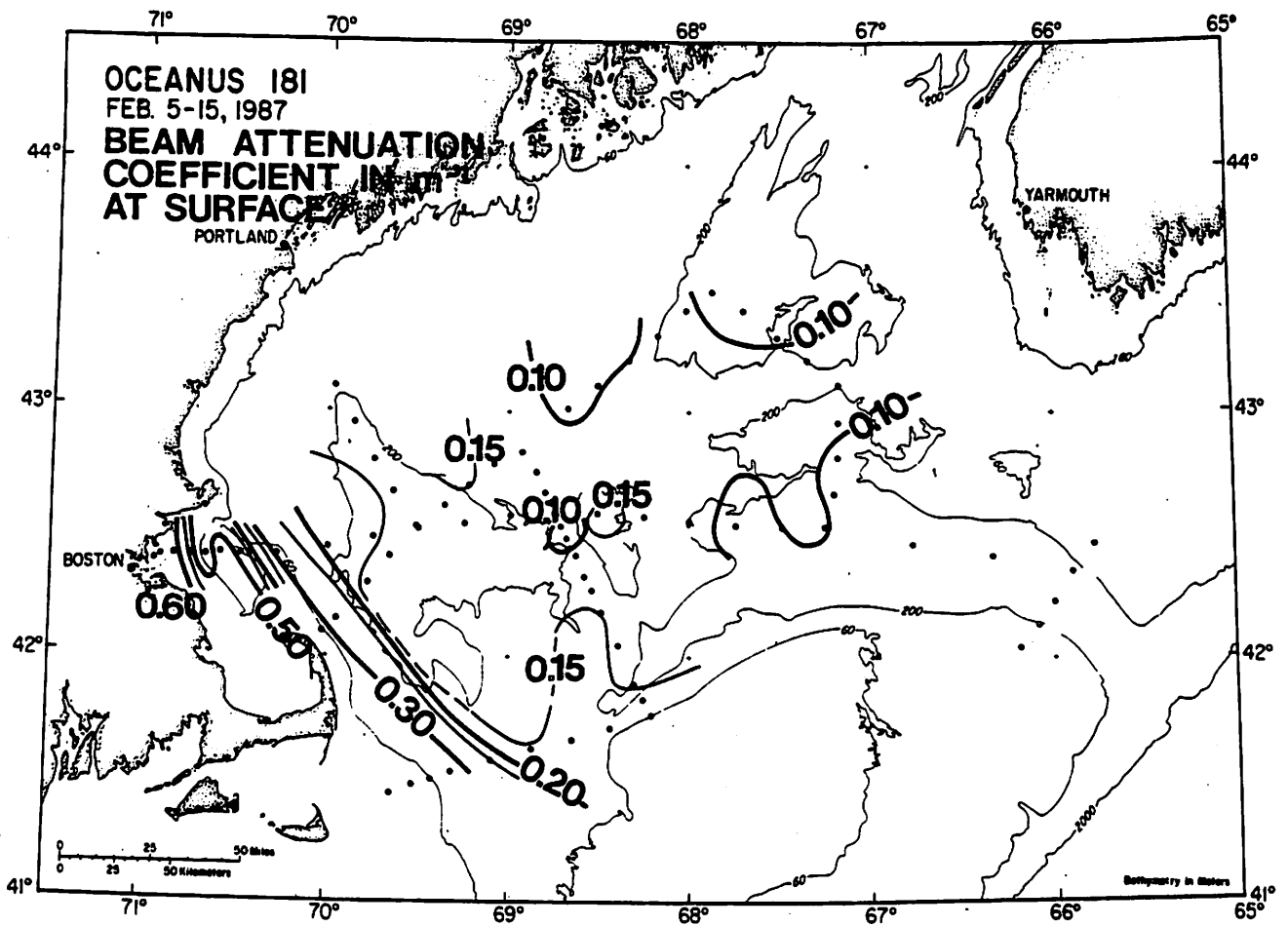


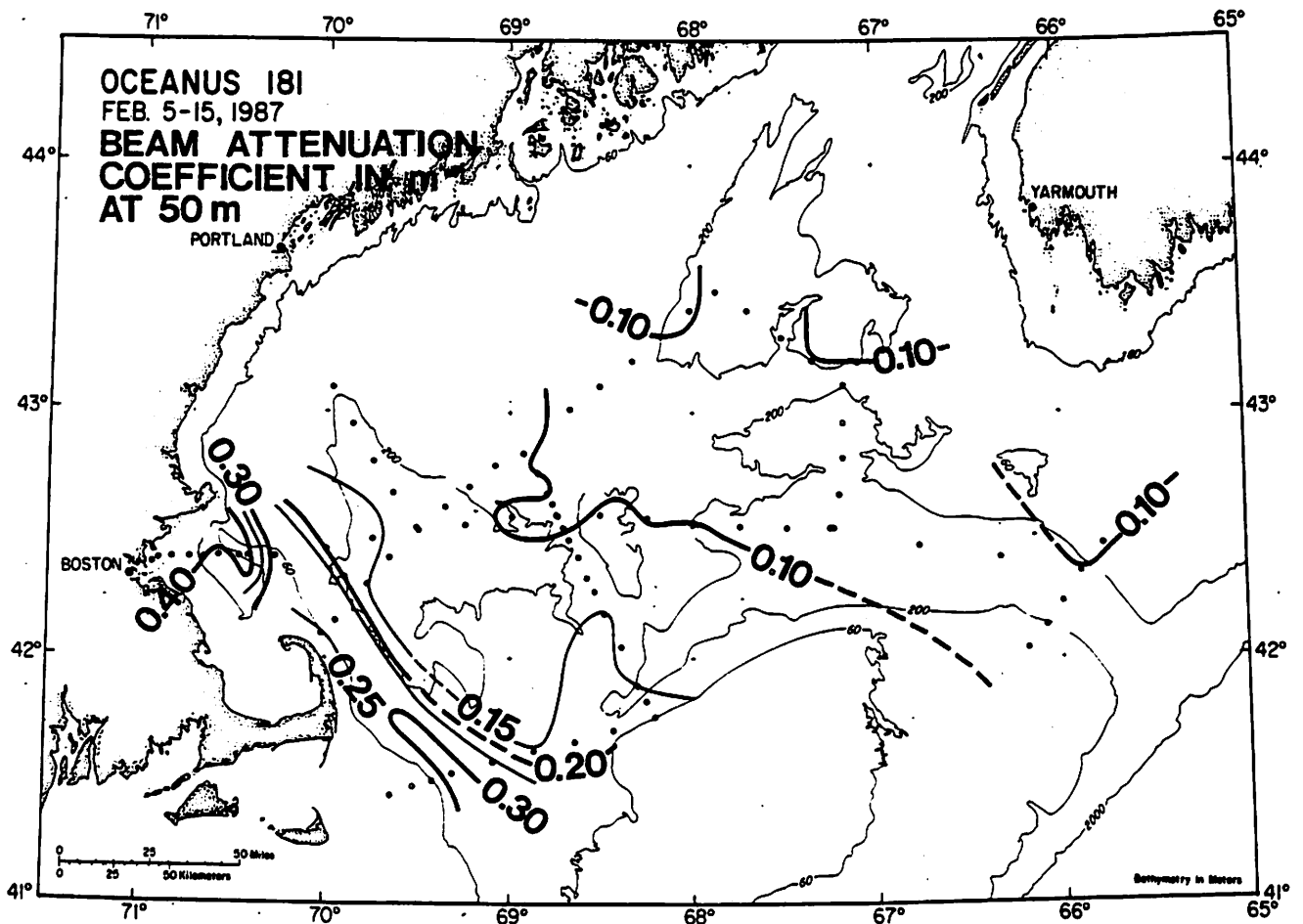


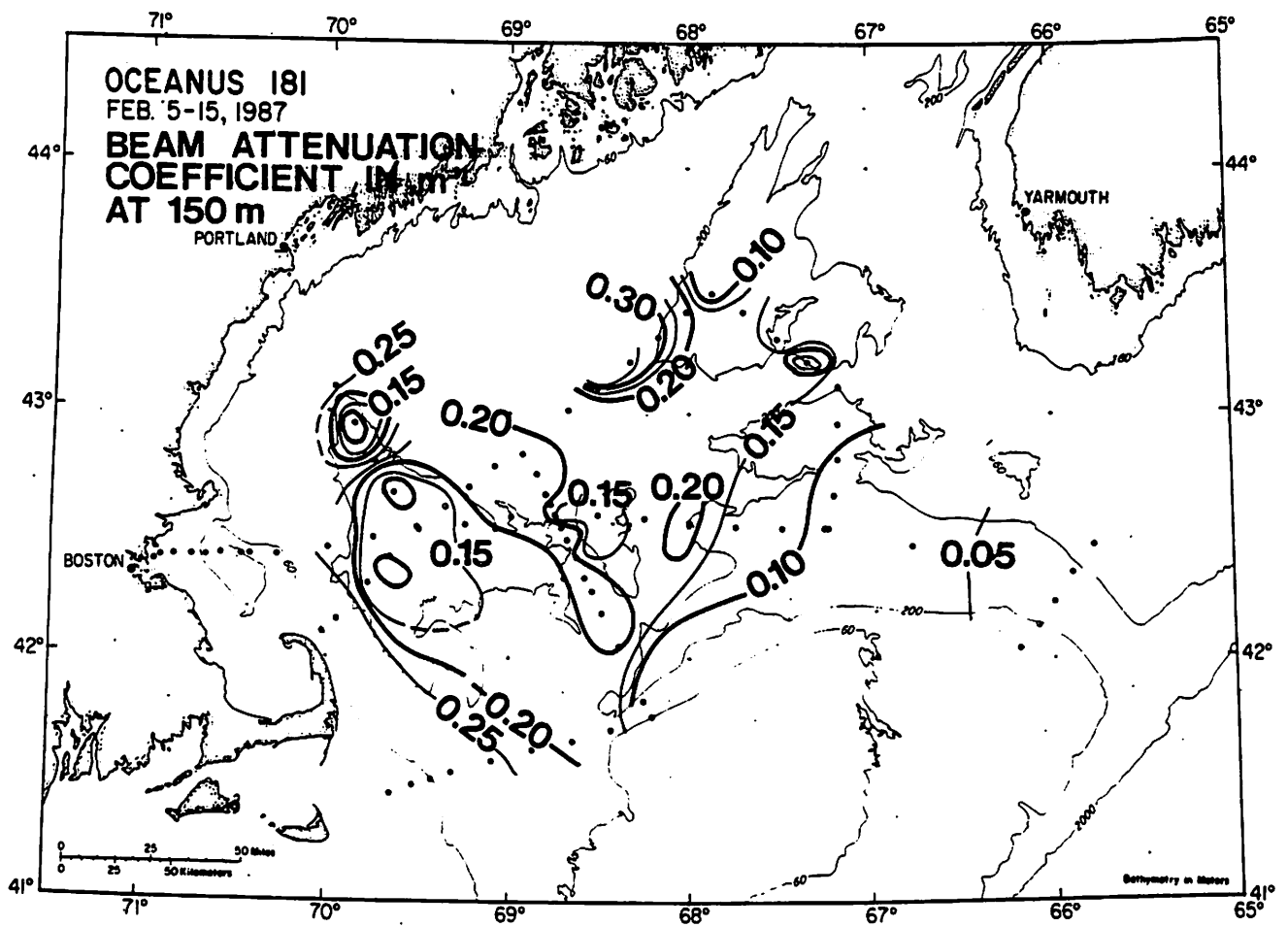


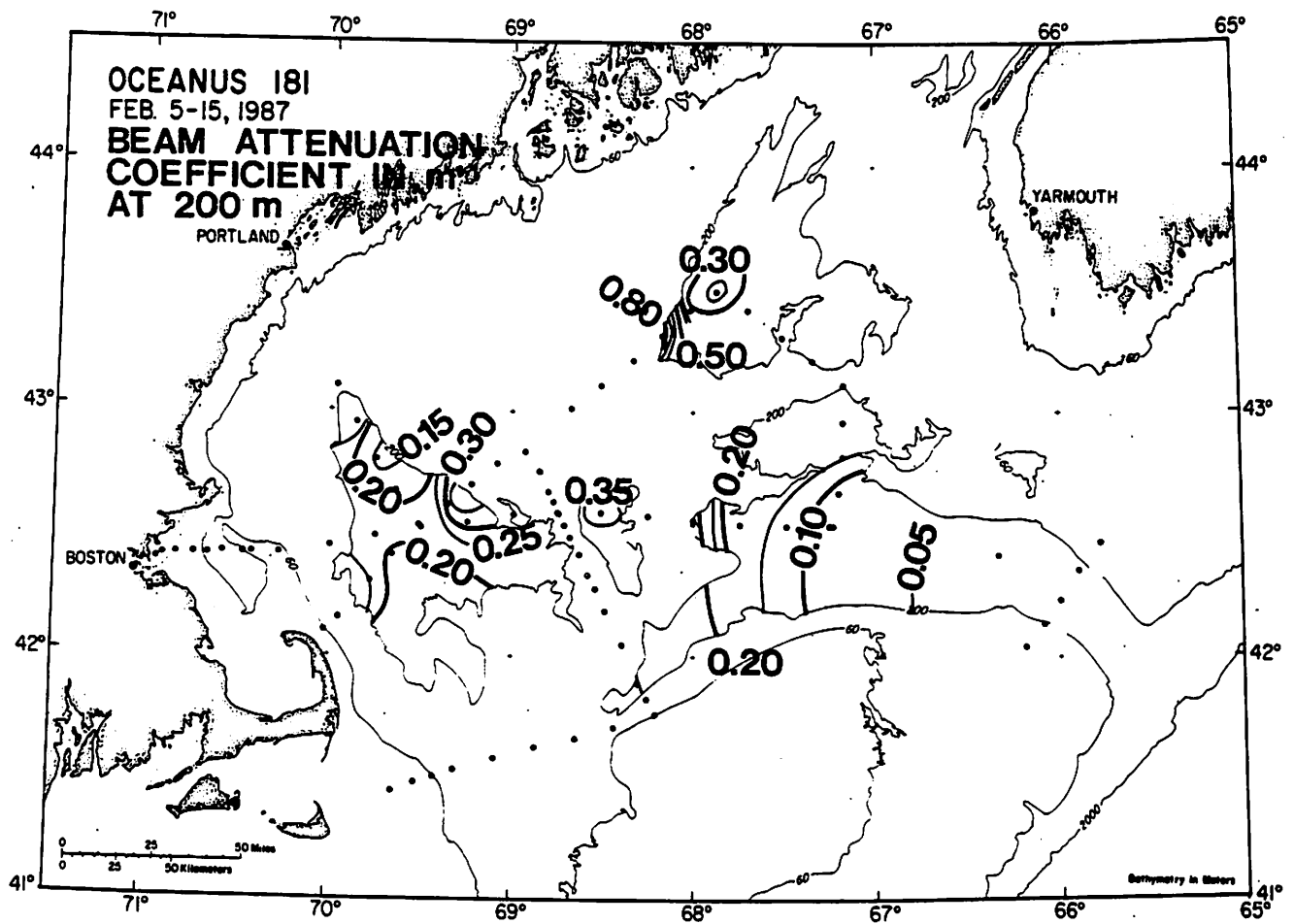










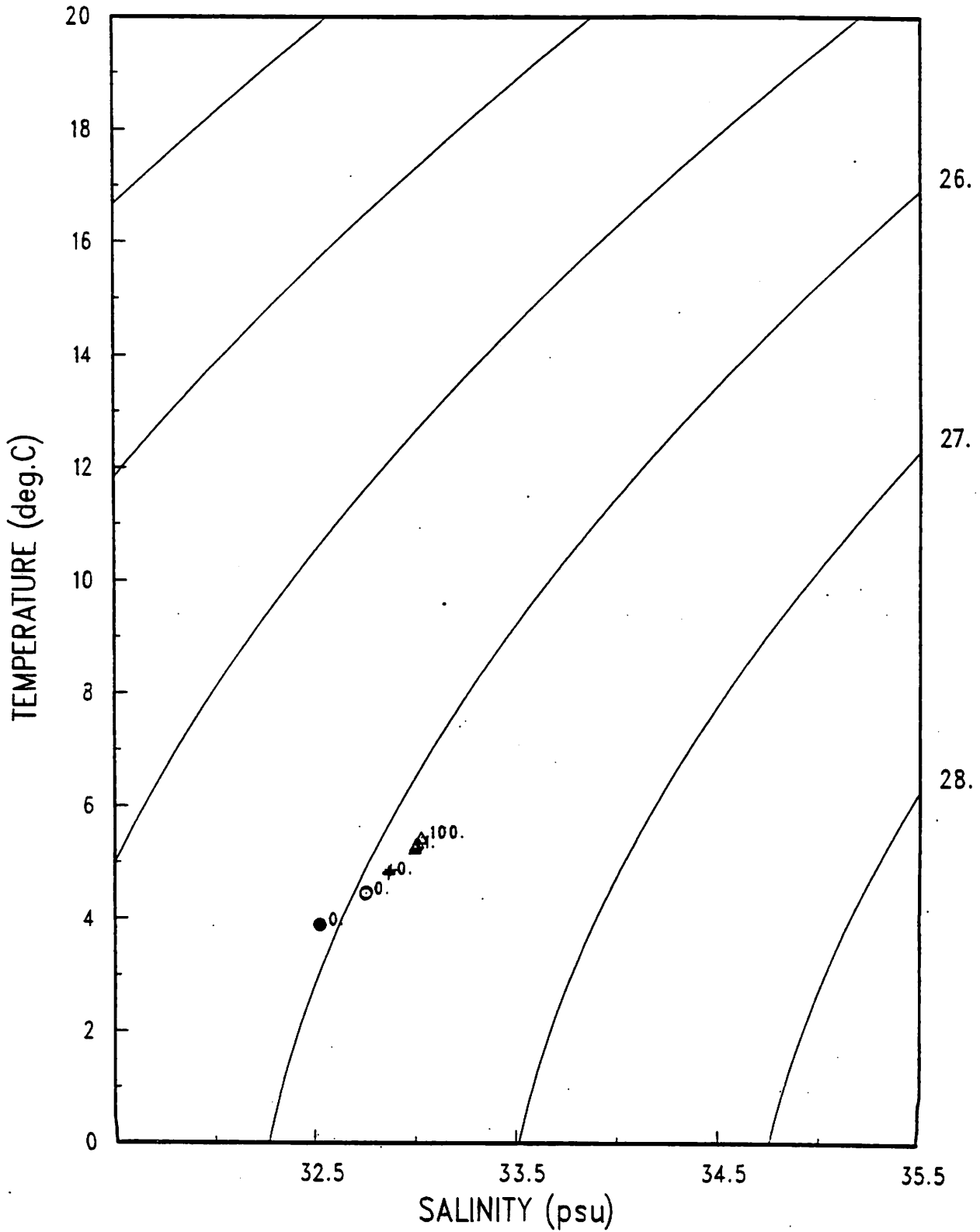


Temperature salinity diagrams

Plots of temperature vs. salinity are by section (see fig. 1). Each station is identified with a different symbol. The symbols are plotted every 20 dbars, and the 0, 100- and 200-decibar, points have been labeled.

OC181--TS Diagram--Section 1

- Station 01.
- Station 02.
- ⊕ Station 03.
- △ Station 04.



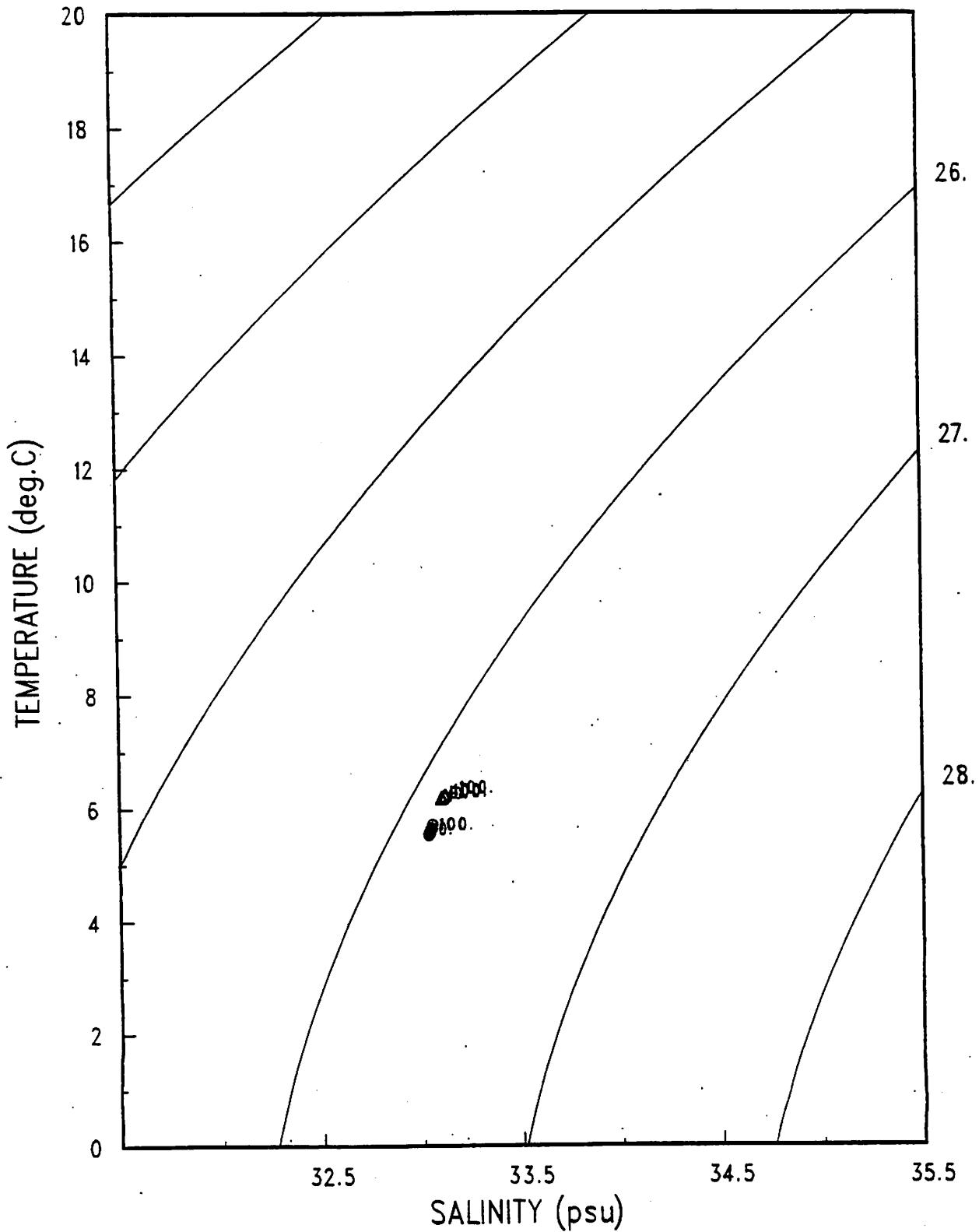
OC181--TS Diagram--Section 1

● Station 05.

+ Station 07.

○ Station 06.

△ Station 08.



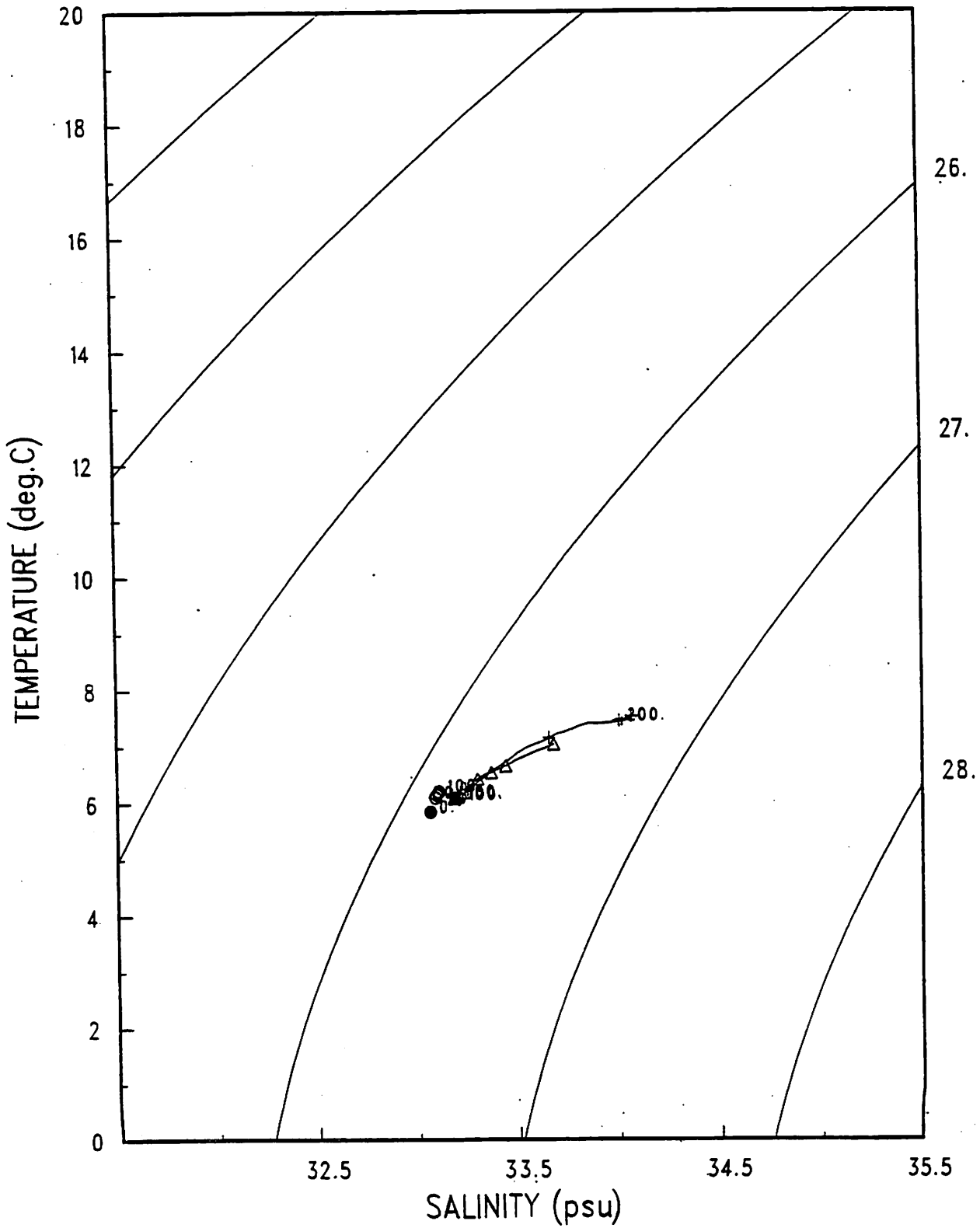
OC181--TS Diagram--Section 2

● Station 09.

+ Station 11.

○ Station 10.

△ Station 12.



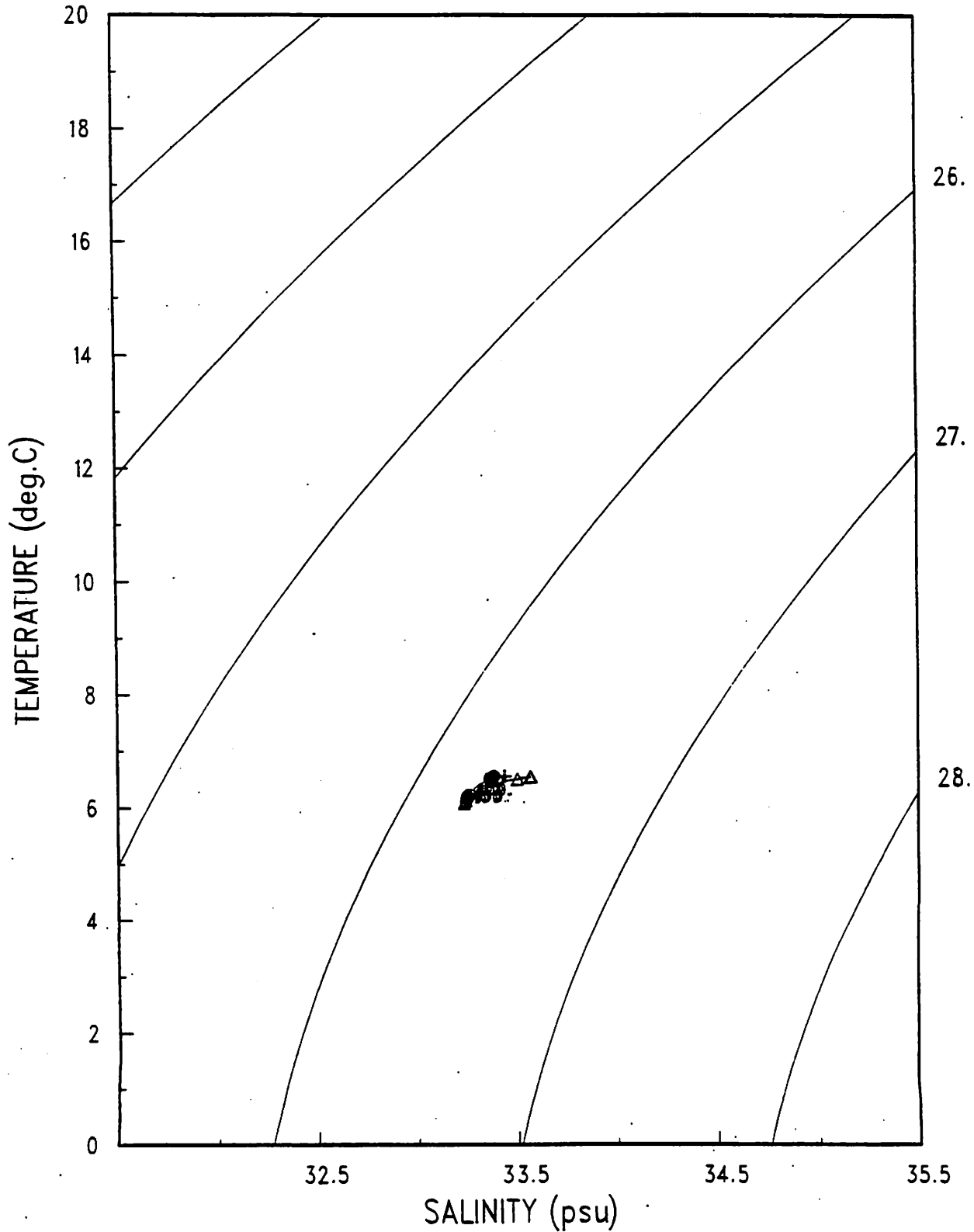
OC181--TS Diagram--Section 2

● Station 13.

+ Station 15.

○ Station 14.

△ Station 16.



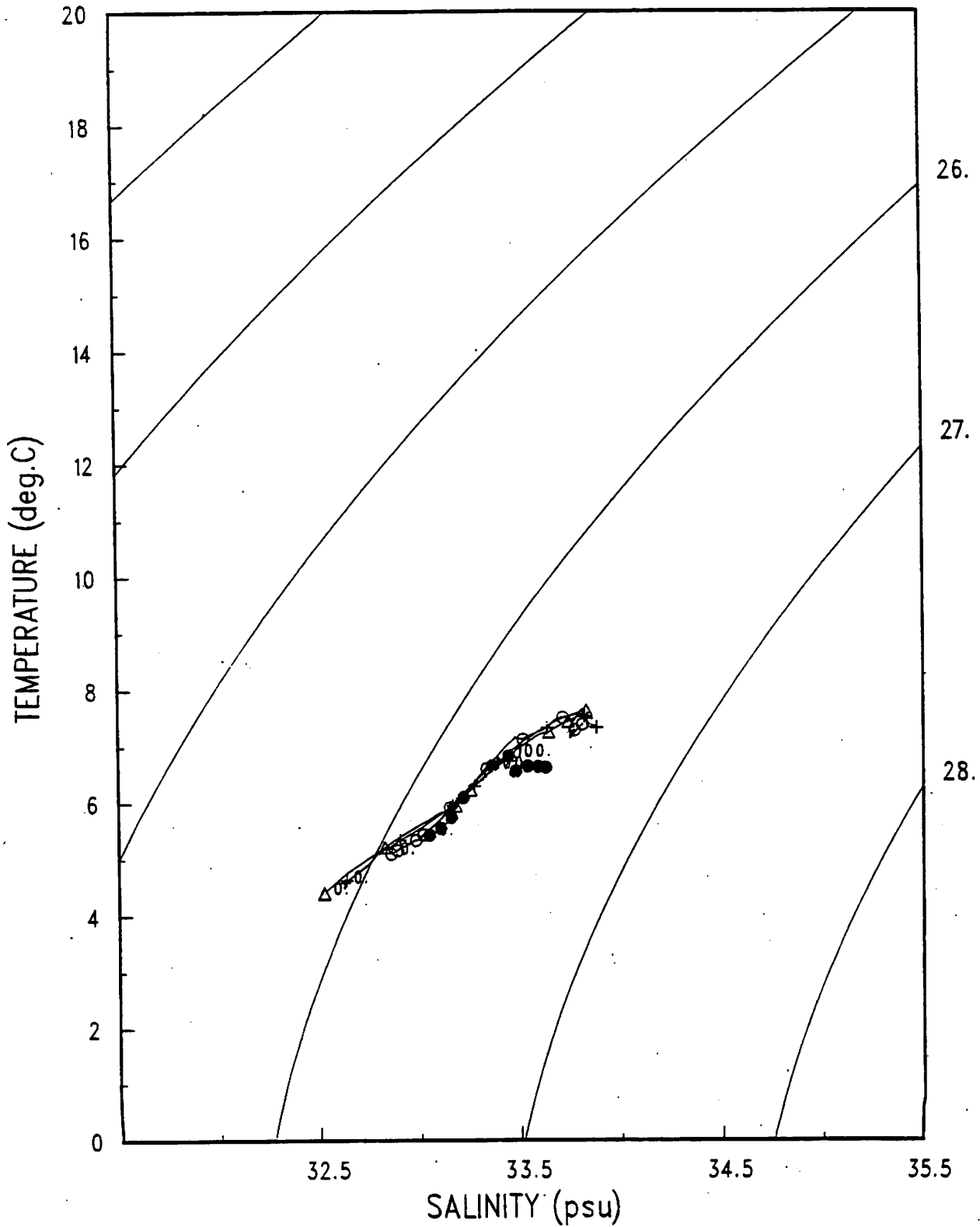
OC181--TS Diagram--Section 2

● Station 17.

⊕ Station 19.

○ Station 18.

△ Station 20.

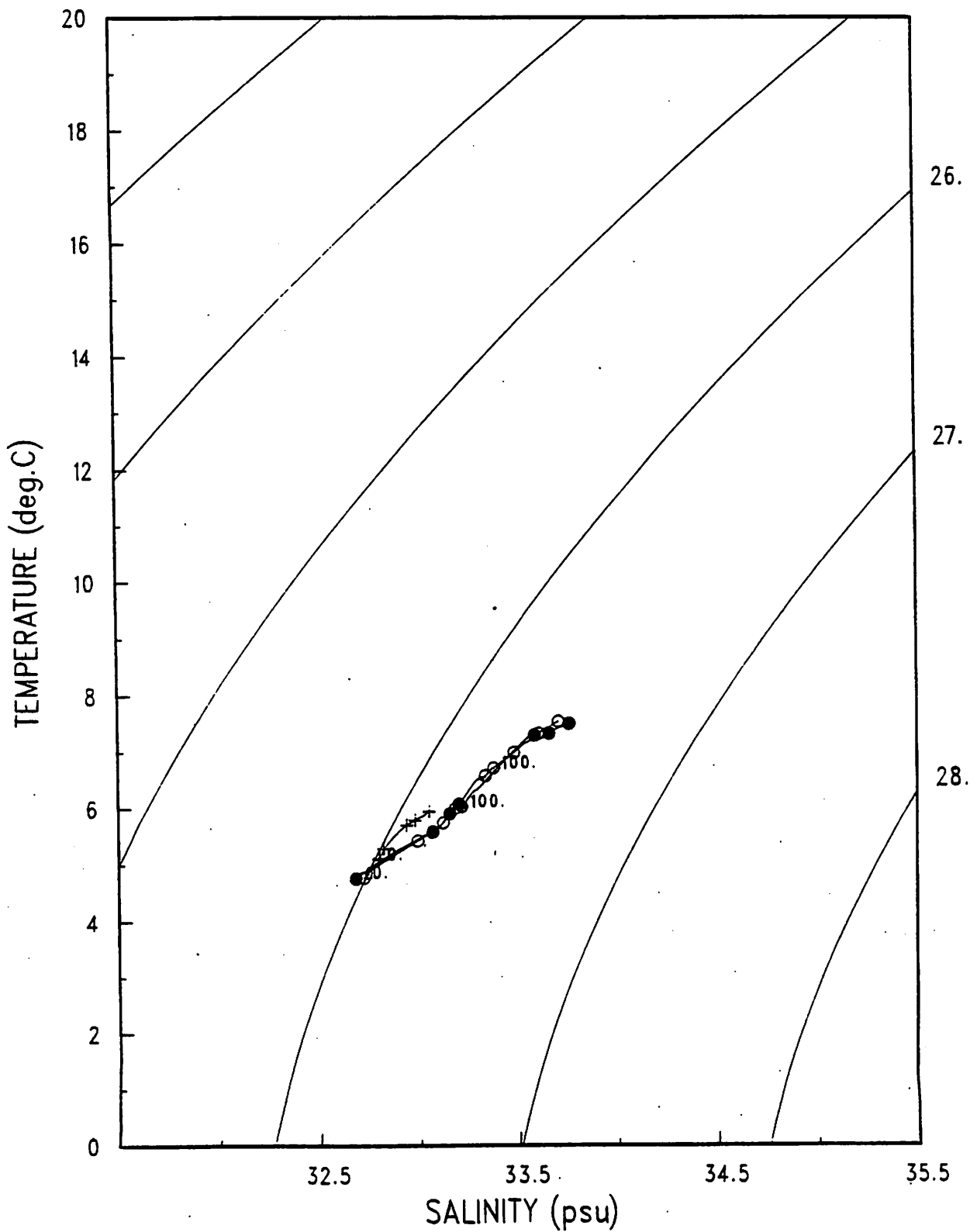


OC181--TS Diagram--Section 2

● Station 21.

+ Station 23.

○ Station 22.



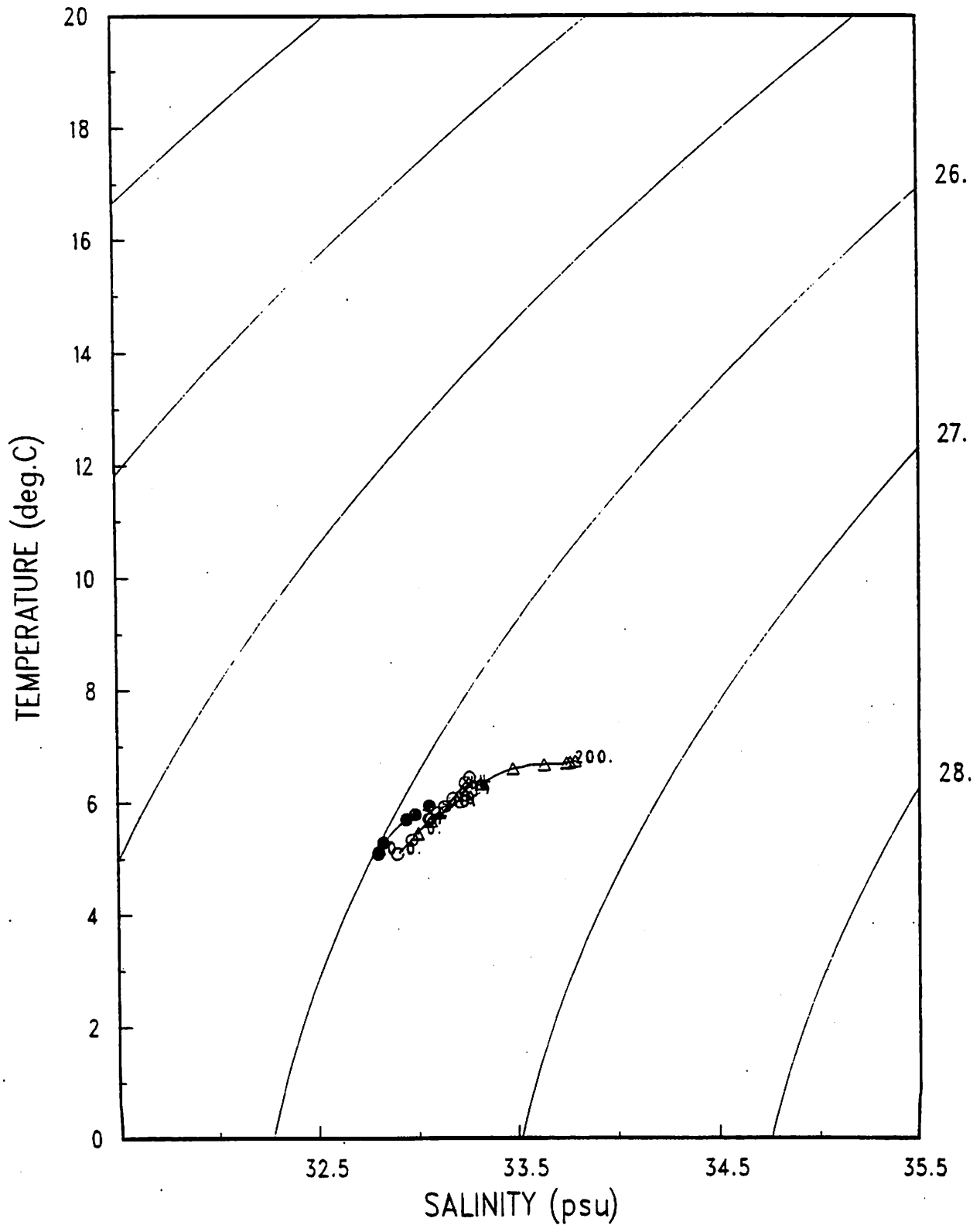
OC181--TS Diagram--Section 3

● Station 23.

⊕ Station 25.

○ Station 24.

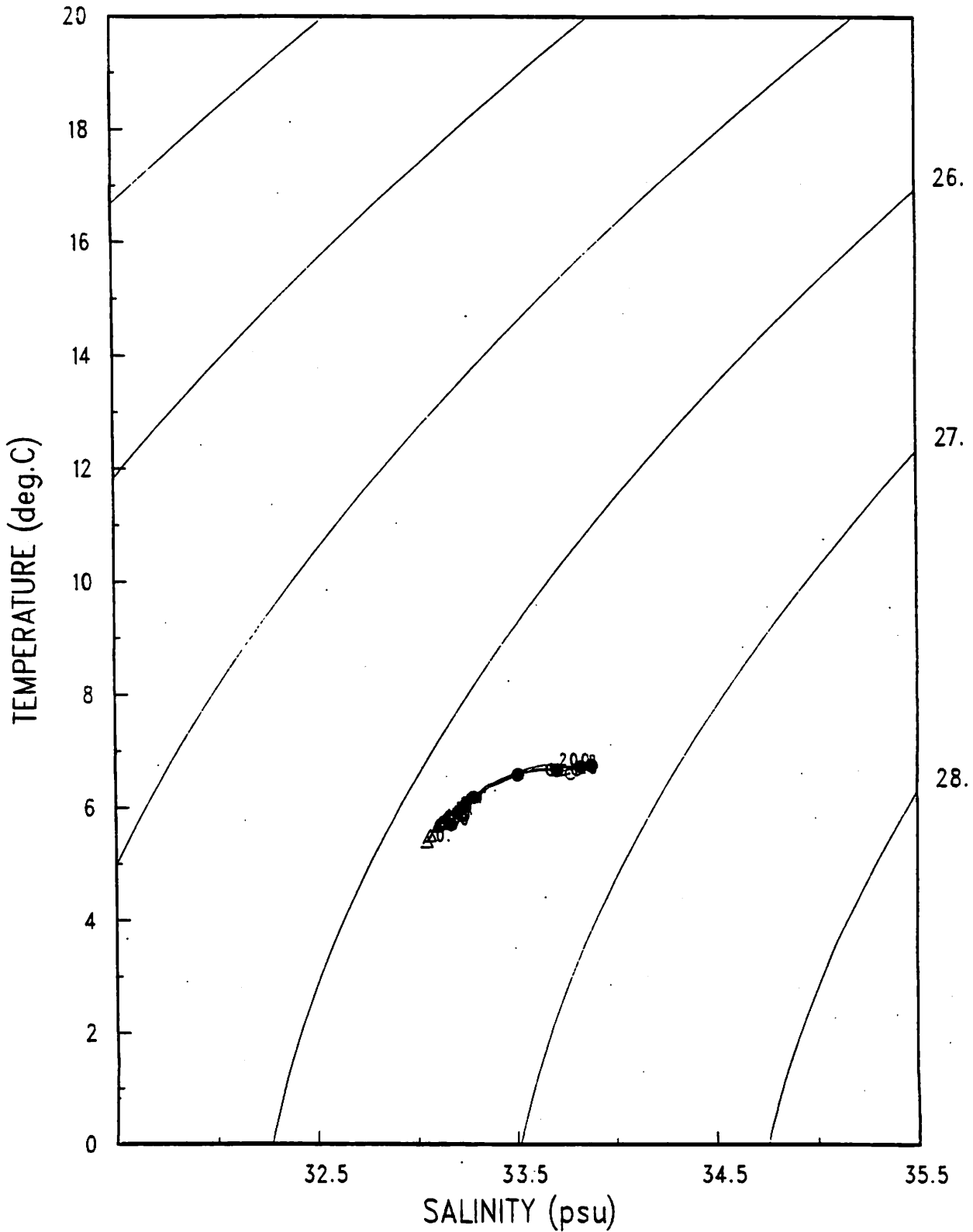
△ Station 26.



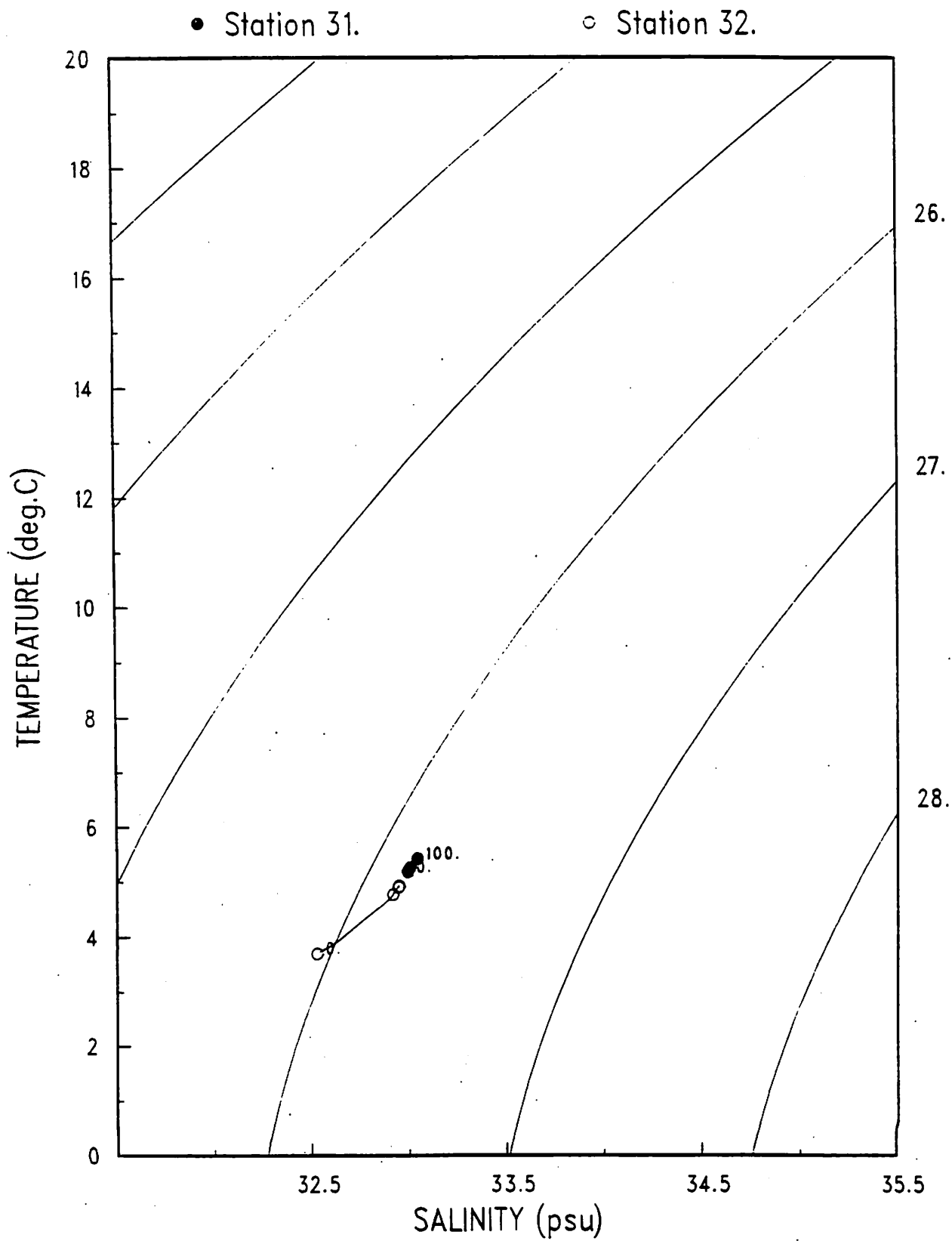
OC181--TS Diagram--Section 3

● Station 27.
○ Station 28.

⊖ Station 29.
△ Station 30.

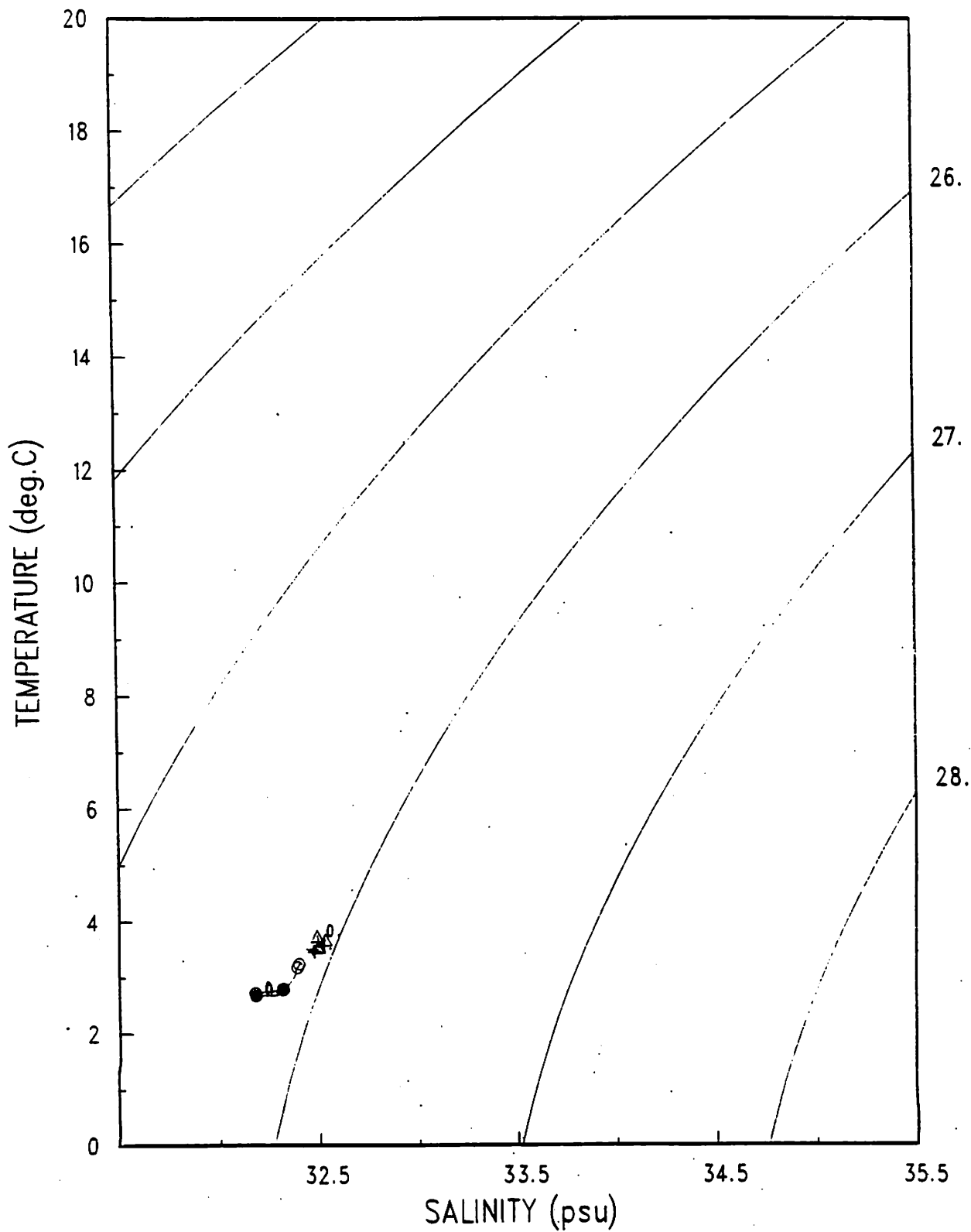


OC181--TS Diagram--Section 3



OC181--TS Diagram--Section 4a

- Station 33.
- Station 34.
- ⊖ Station 35.
- △ Station 36.



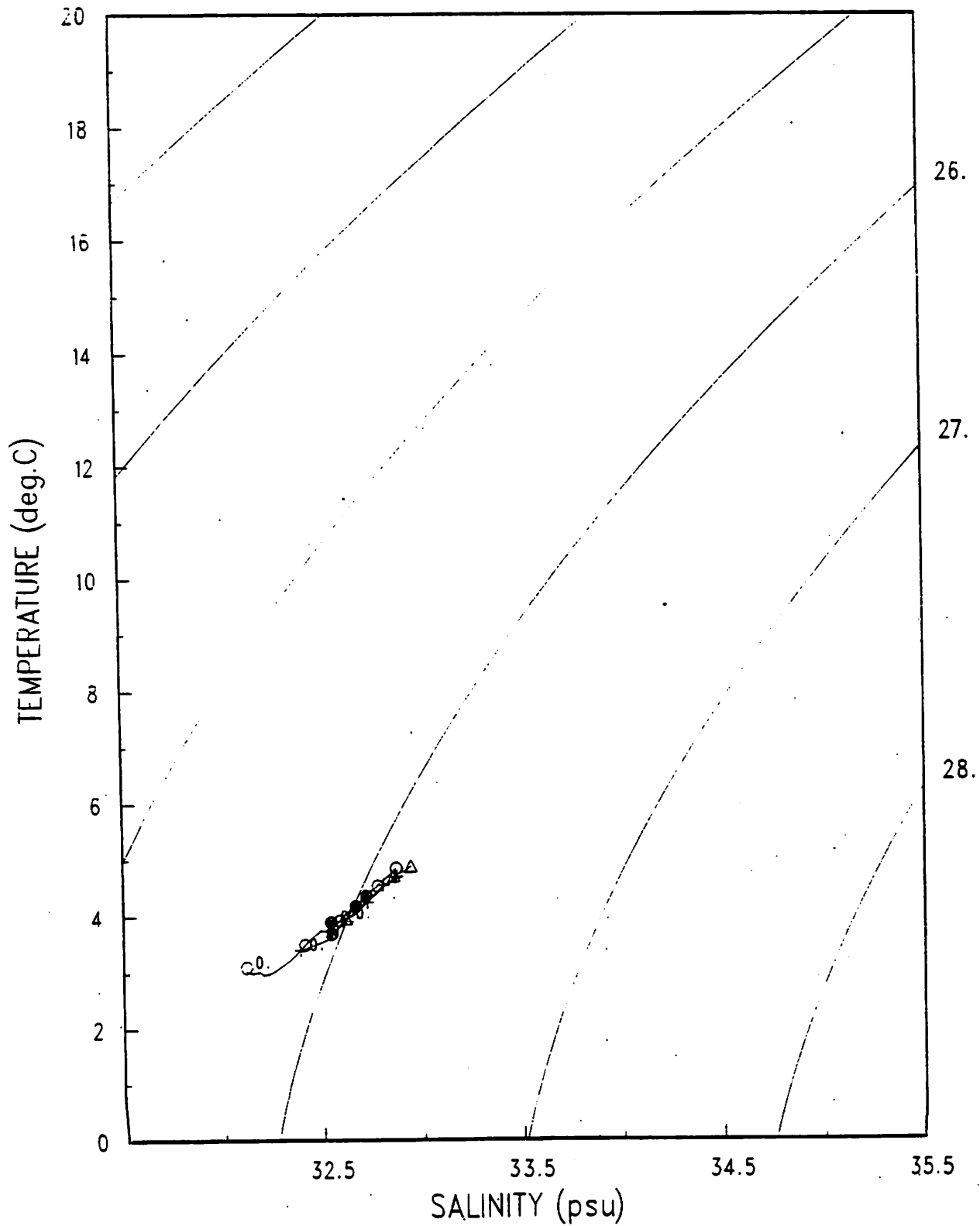
00181--TS Diagram--Section 4a

● Station 37.

+ Station 39.

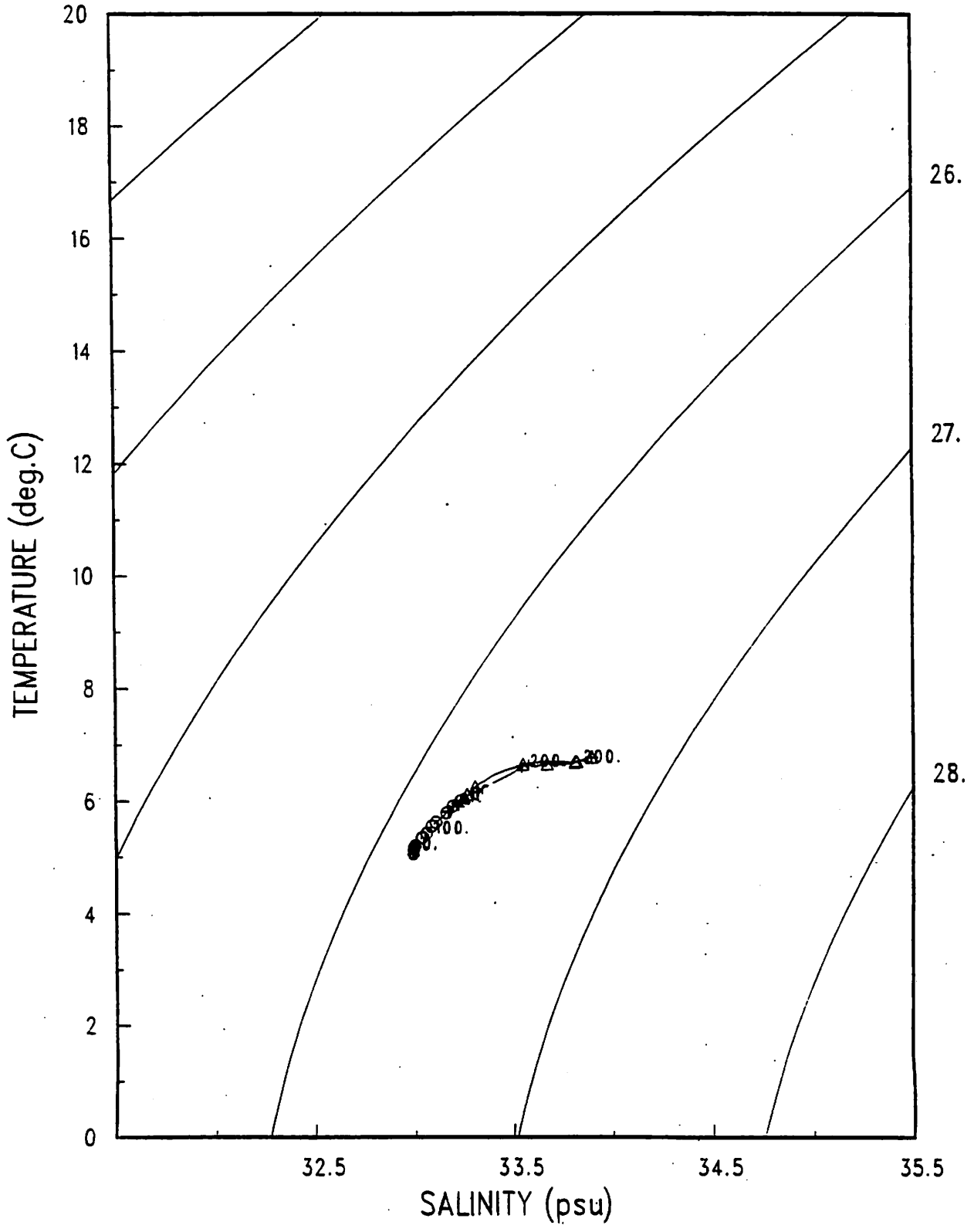
○ Station 38.

△ Station 40.



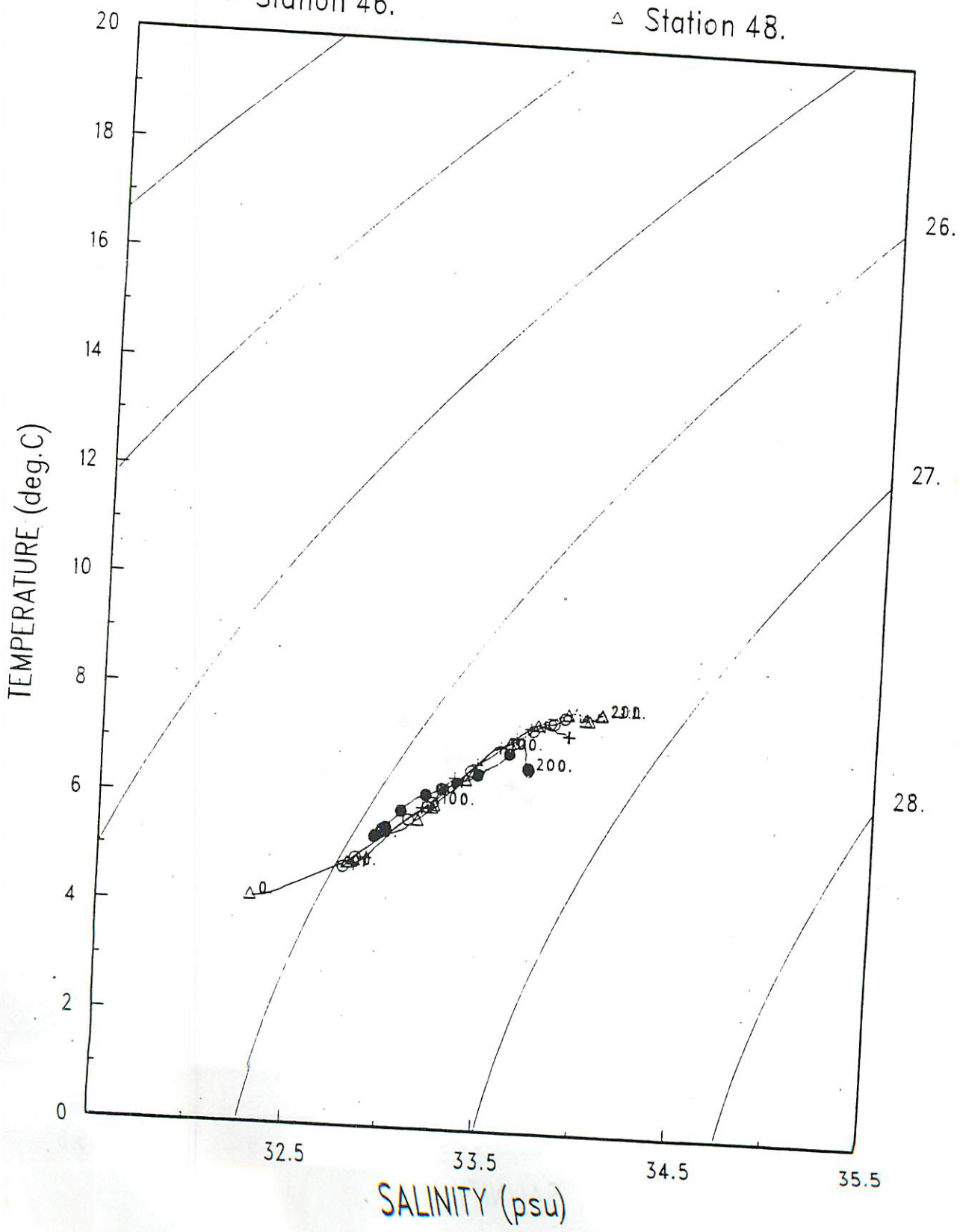
OC181--TS Diagram--Section 5a

- Station 41.
- Station 42.
- + Station 43.
- △ Station 44.



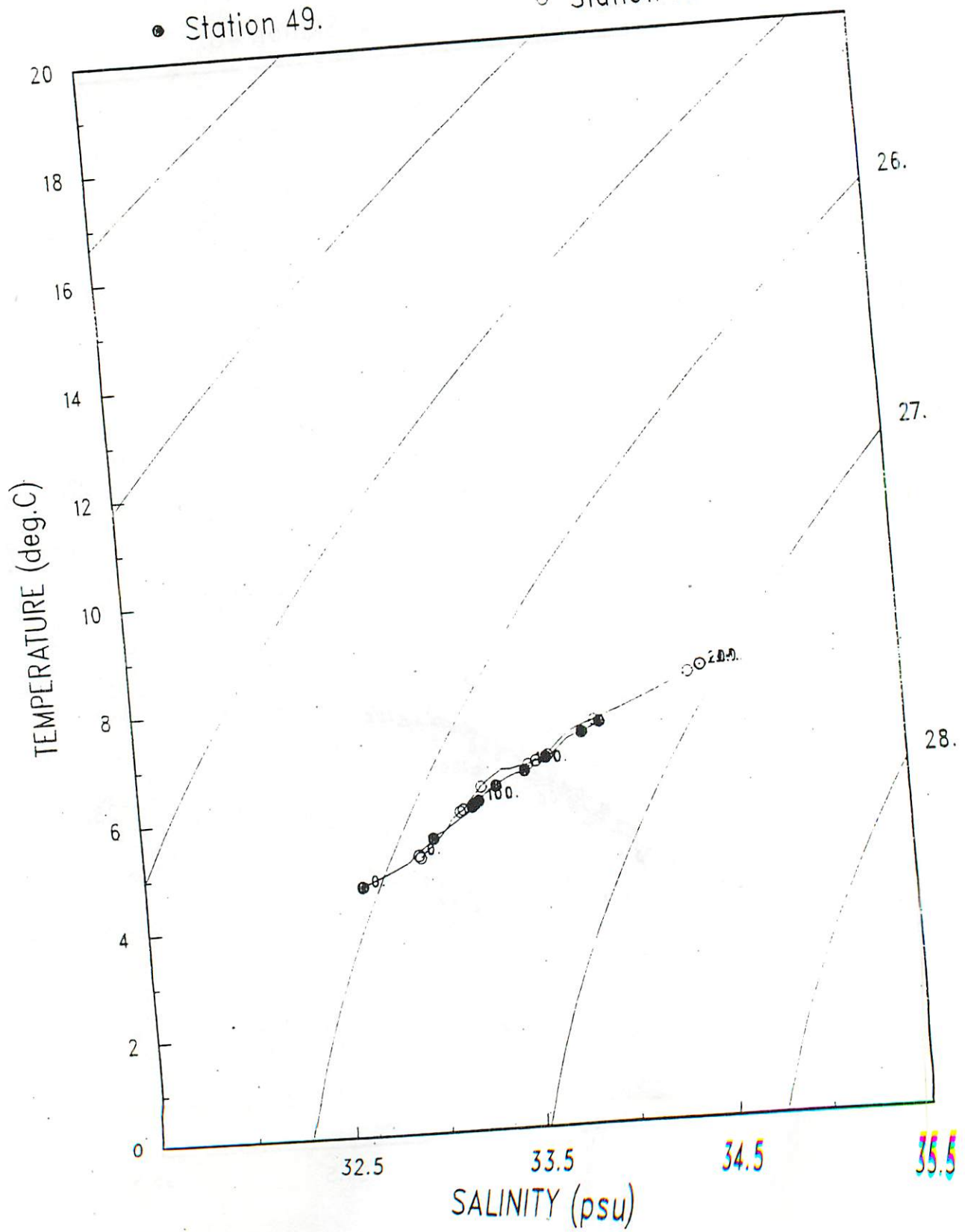
OC181--TS Diagram--Section 5a

- Station 45.
- Station 46.
- ⊕ Station 47.
- △ Station 48.



00121--TS Diagram--Section 6

● Station 49. ○ Station 50.



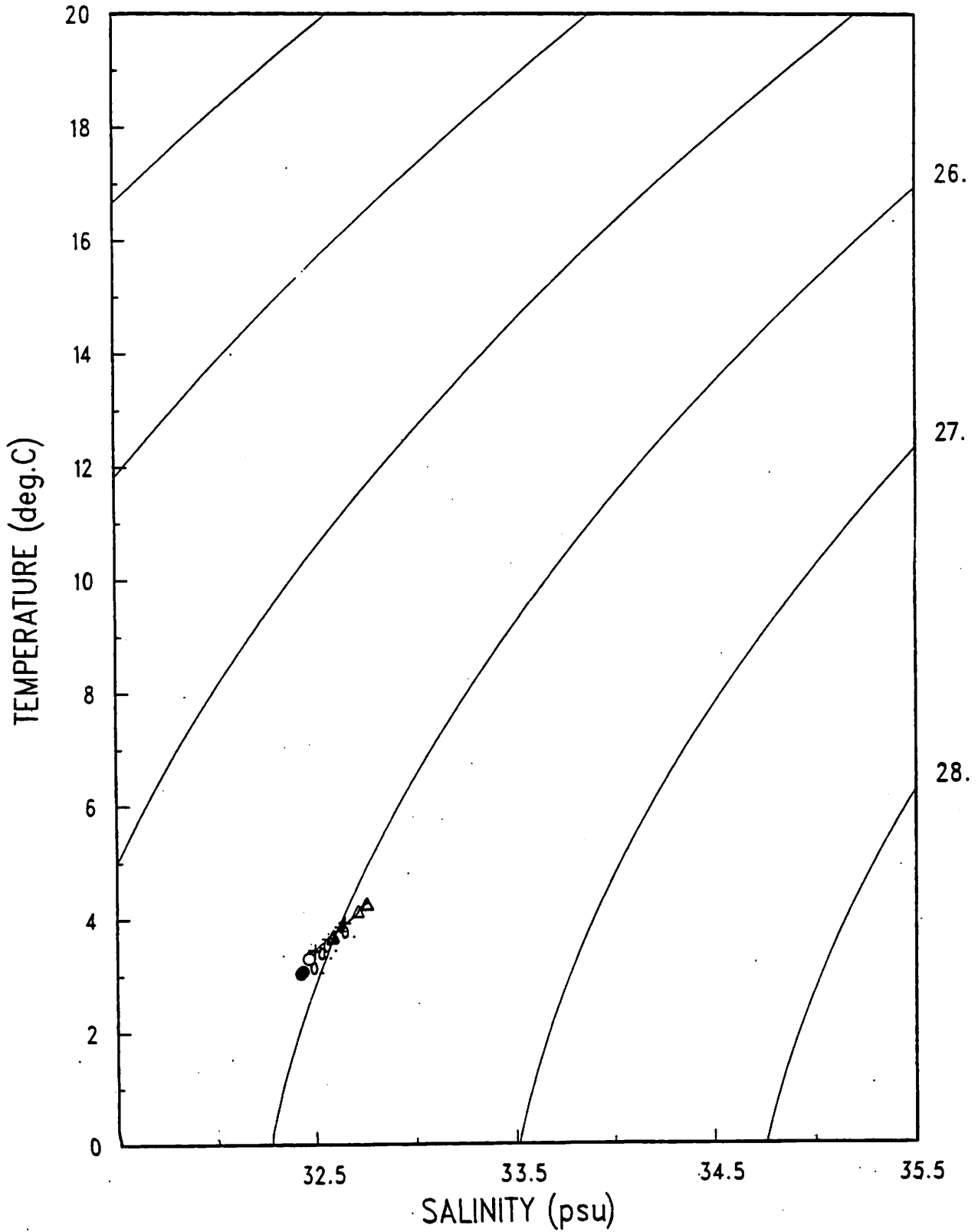
OC181--TS Diagram--Section 4b

● Station 51.

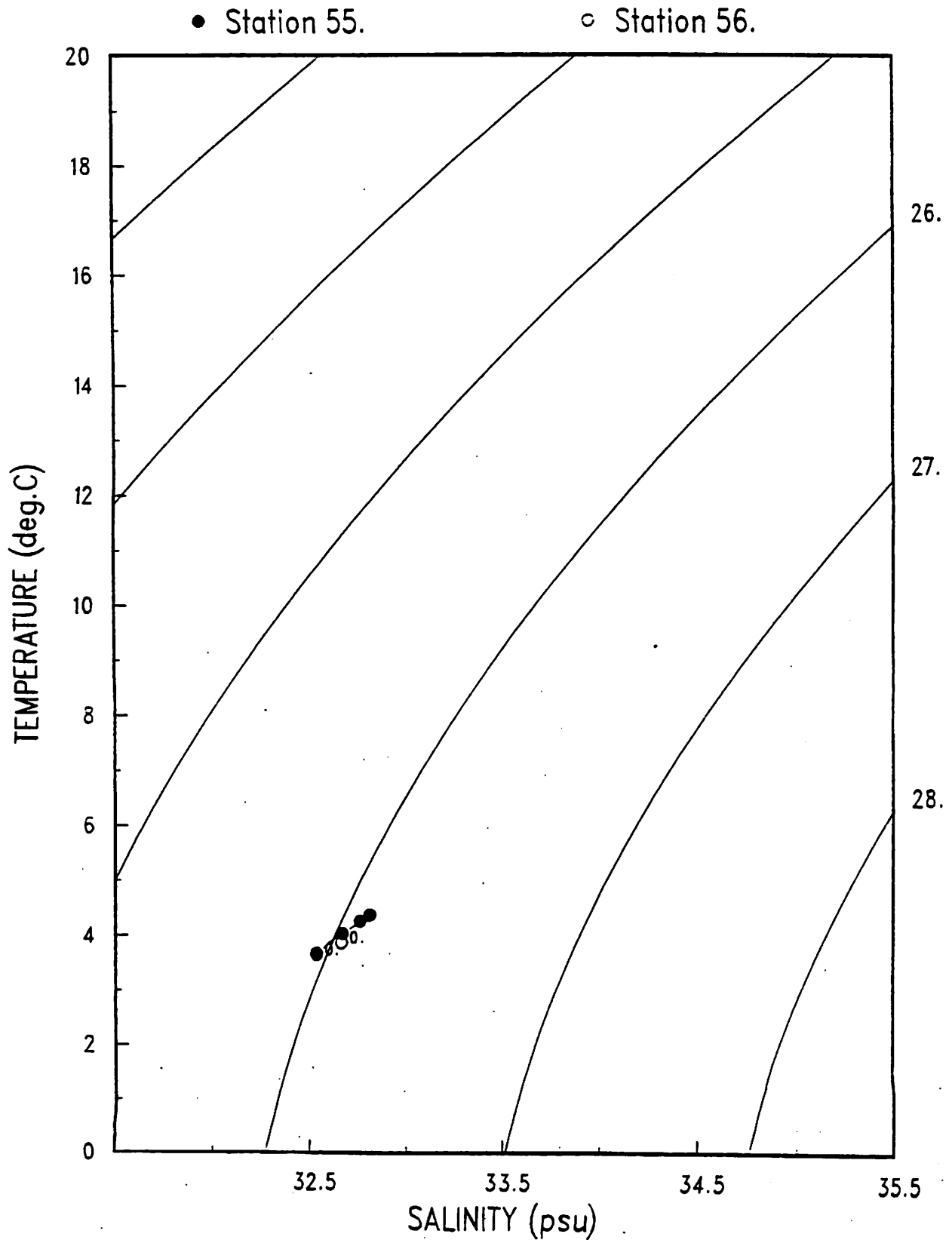
+ Station 53.

○ Station 52.

△ Station 54.



OC181--TS Diagram--Section 4b



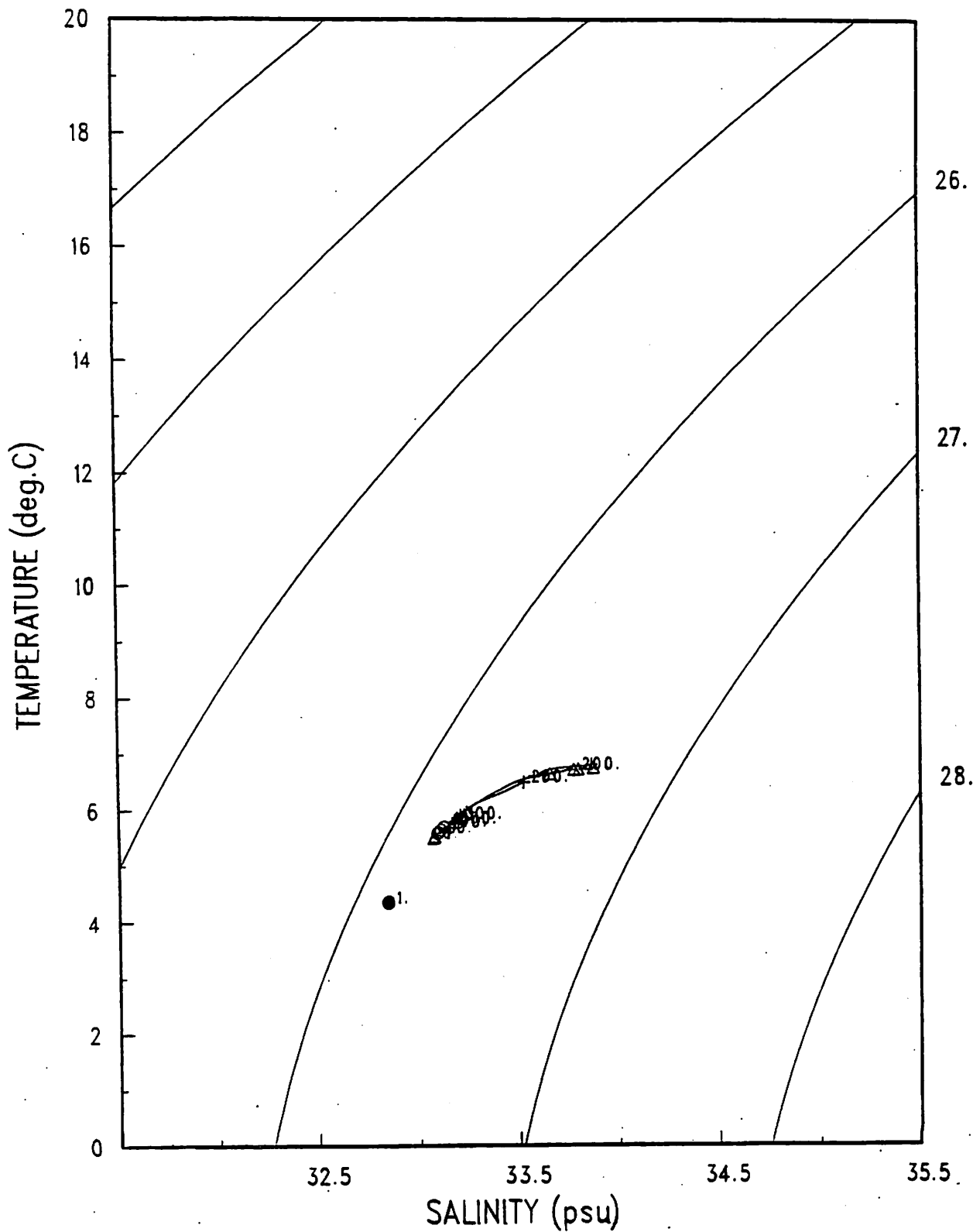
OC181--TS Diagram--Section 5b

● Station 57.

+ Station 59.

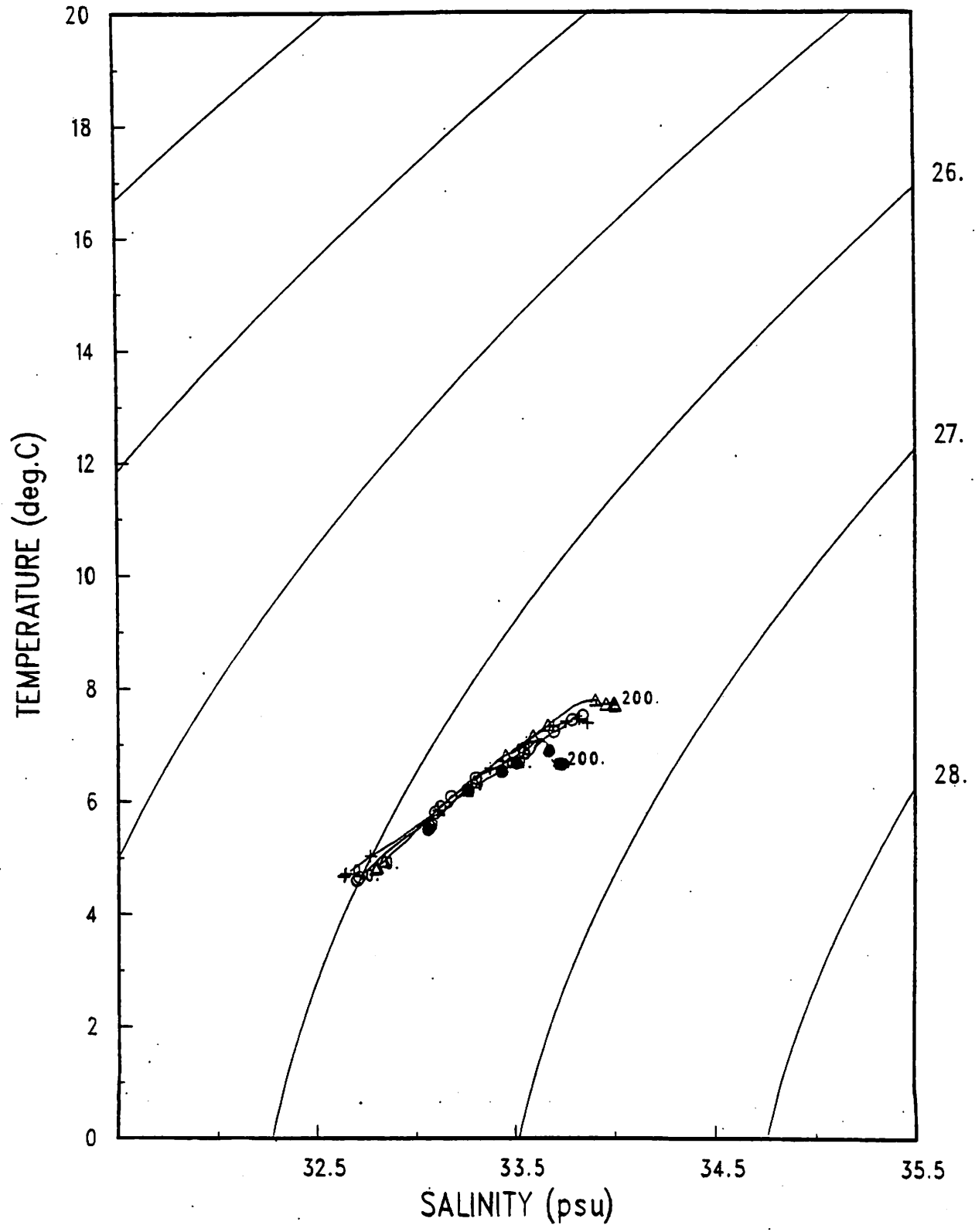
○ Station 58.

△ Station 60.



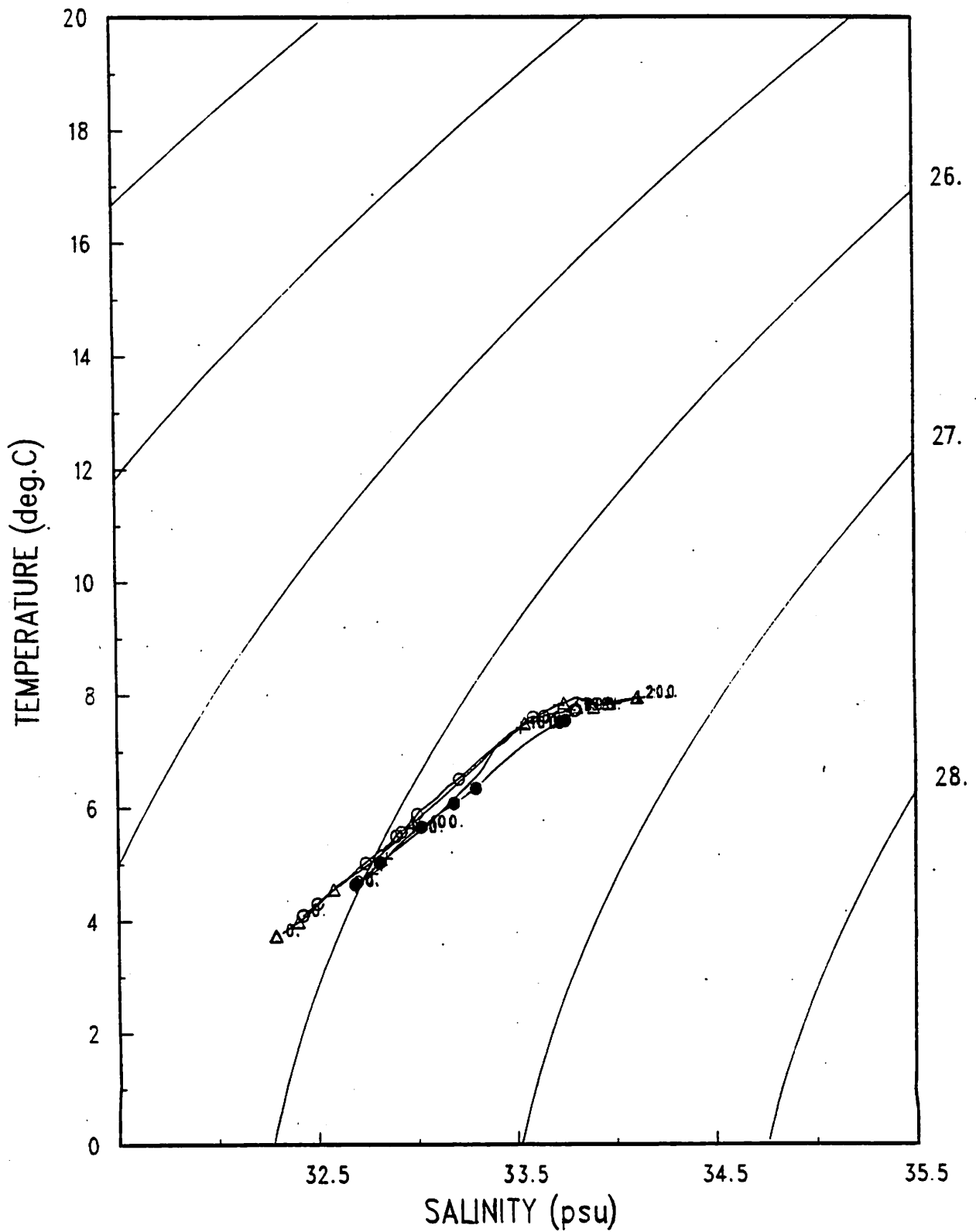
OC181--TS Diagram--Section 5b

- Station 61.
- Station 62.
- ⊕ Station 63.
- △ Station 64.



OC181--TS Diagram--Section 8

- Station 66.
- Station 67.
- ⊠ Station 68.
- △ Station 69.



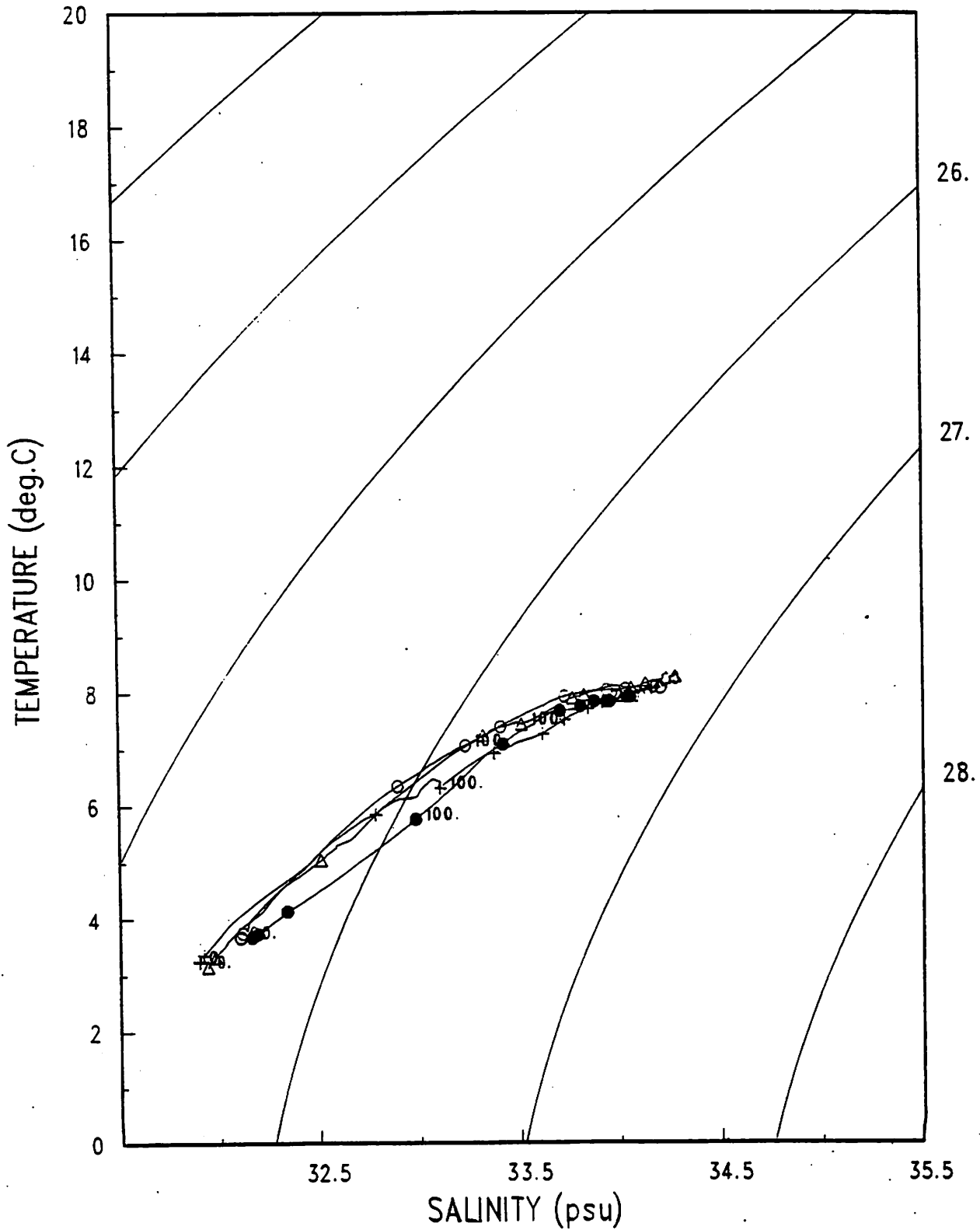
OC181--TS Diagram--Section 8

● Station 70.

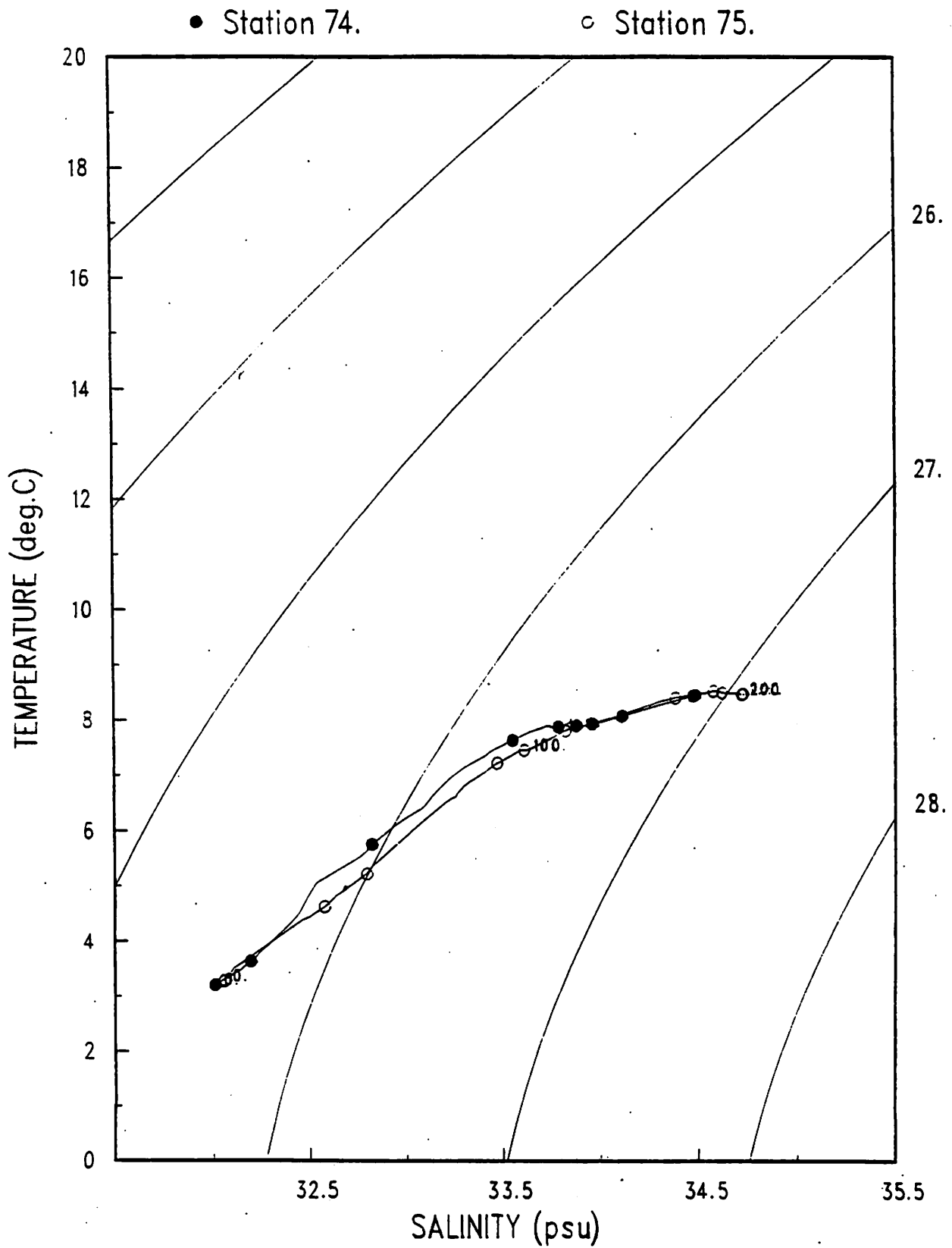
+ Station 72.

○ Station 71.

△ Station 73.



OC181--TS Diagram--Section 8



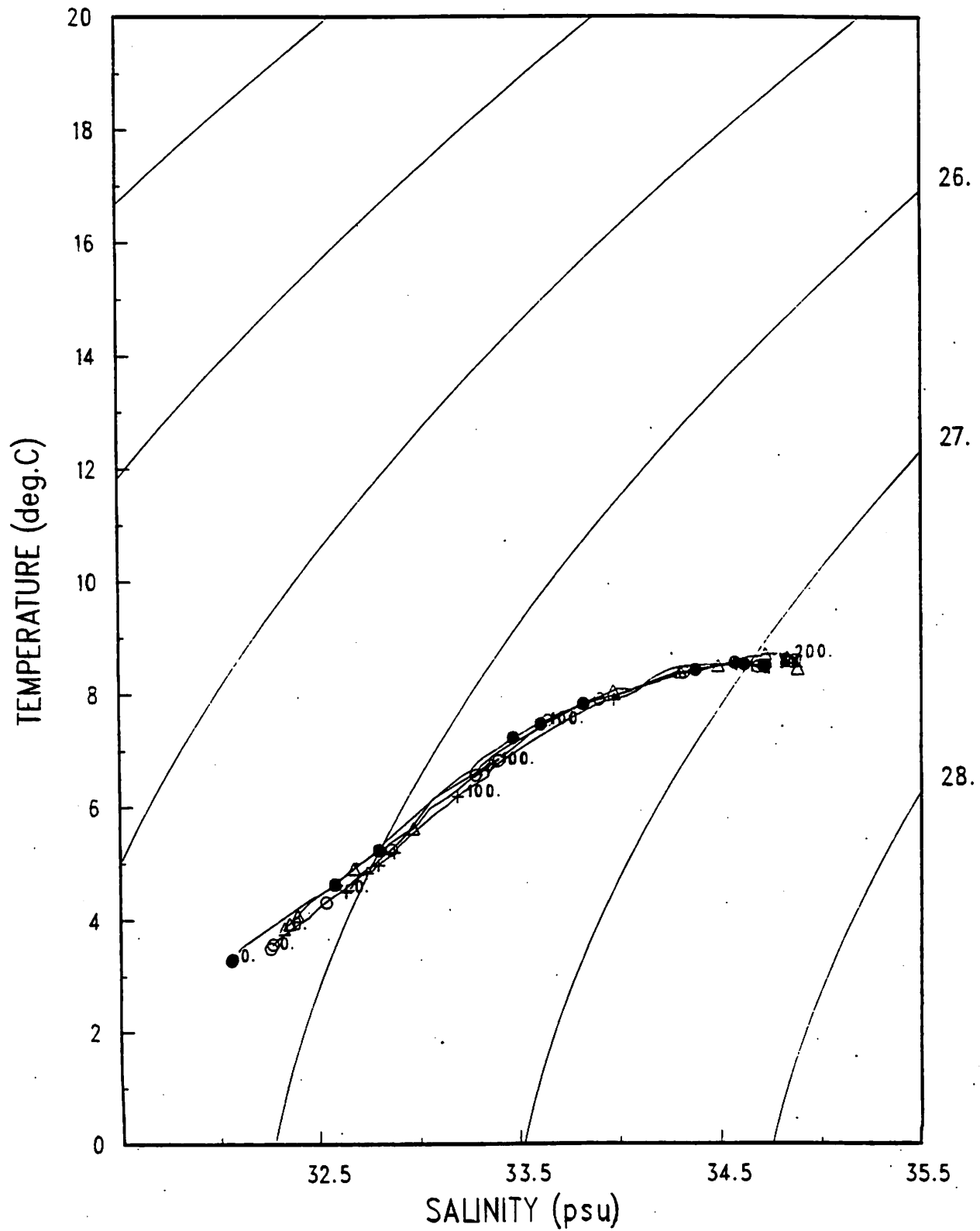
OC181--TS Diagram--Section 9

● Station 75.

⊕ Station 77.

○ Station 76.

△ Station 78.

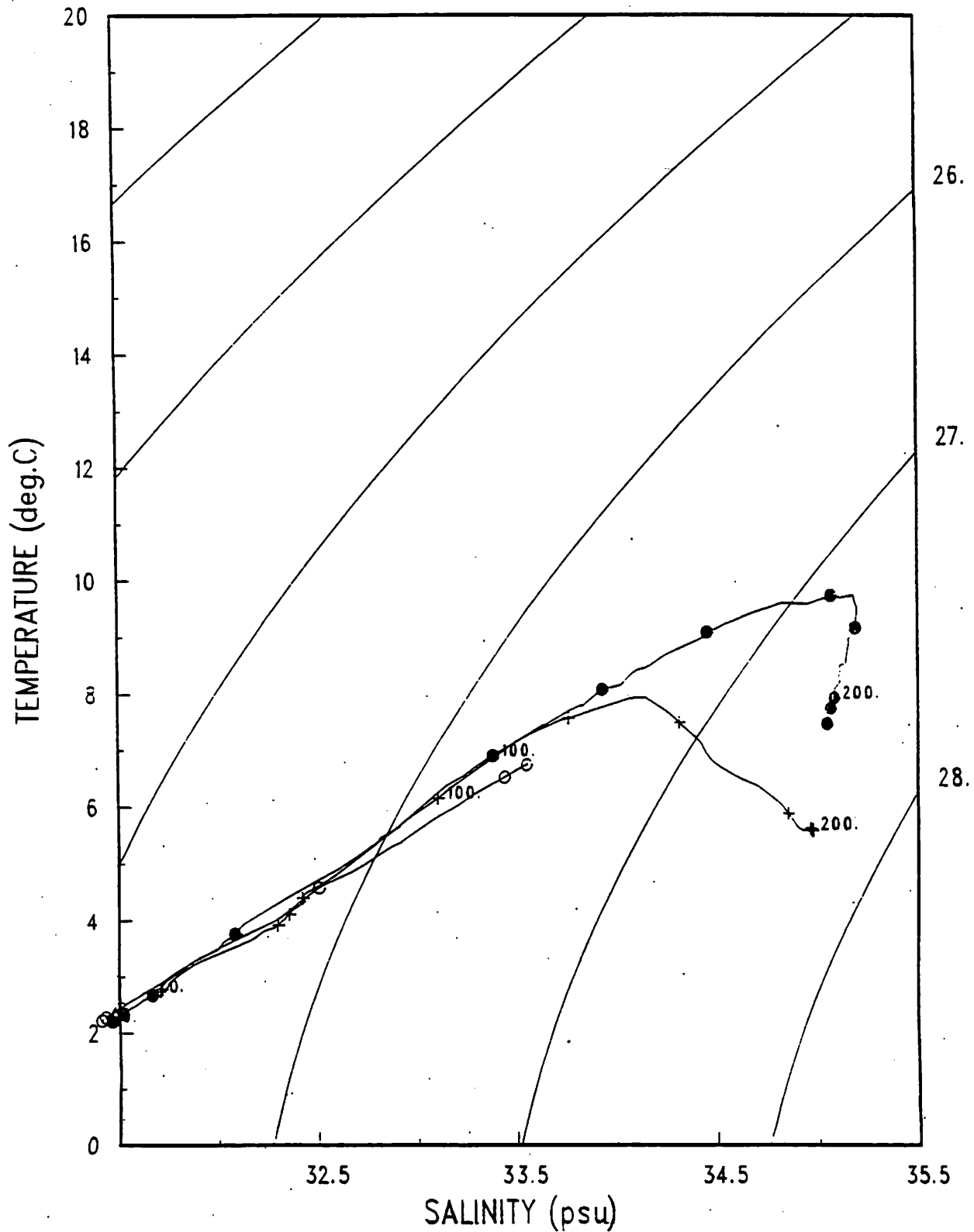


OC181--TS Diagram--Section 7

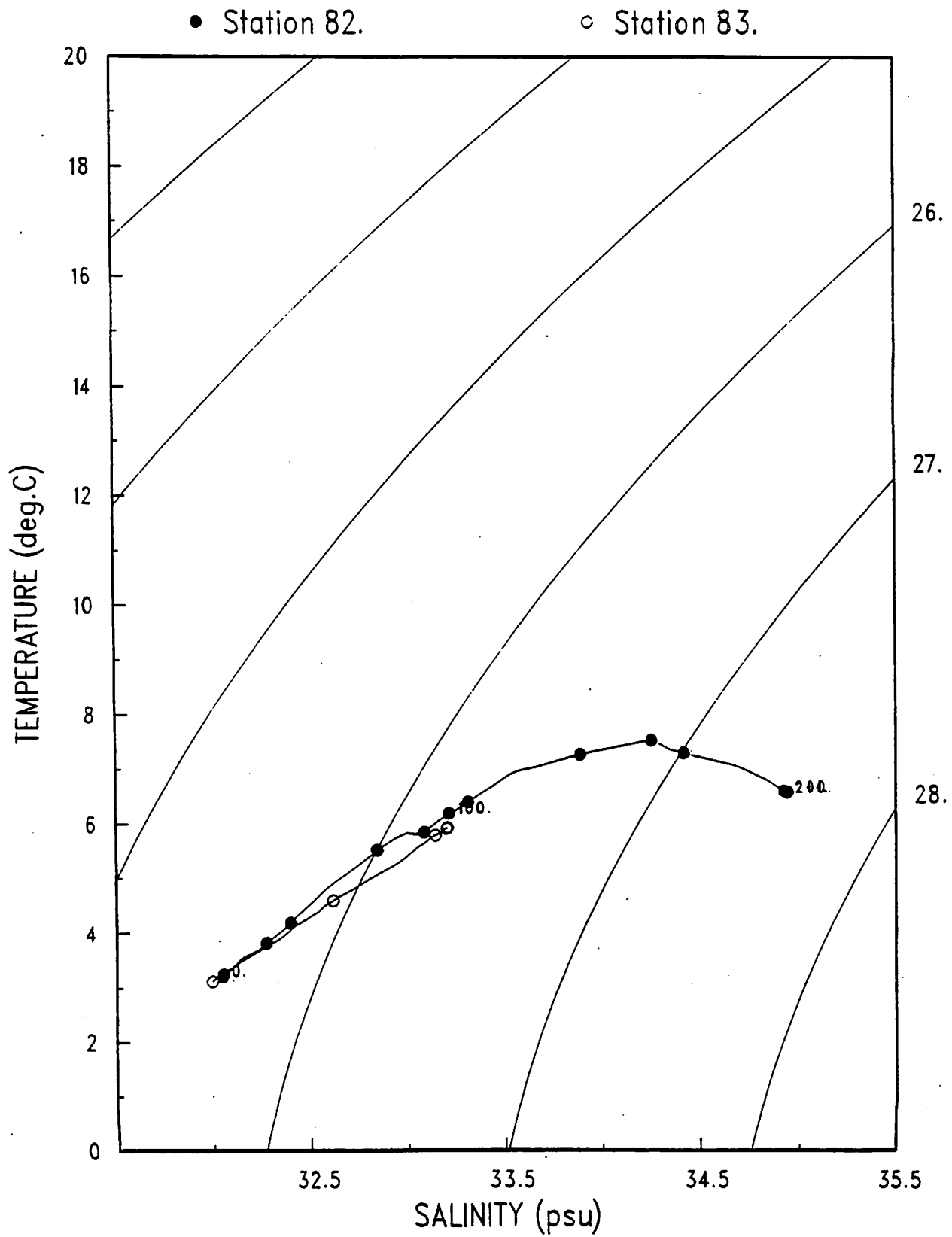
● Station 79.

+ Station 81.

○ Station 80.



OC181--TS Diagram--Section 7

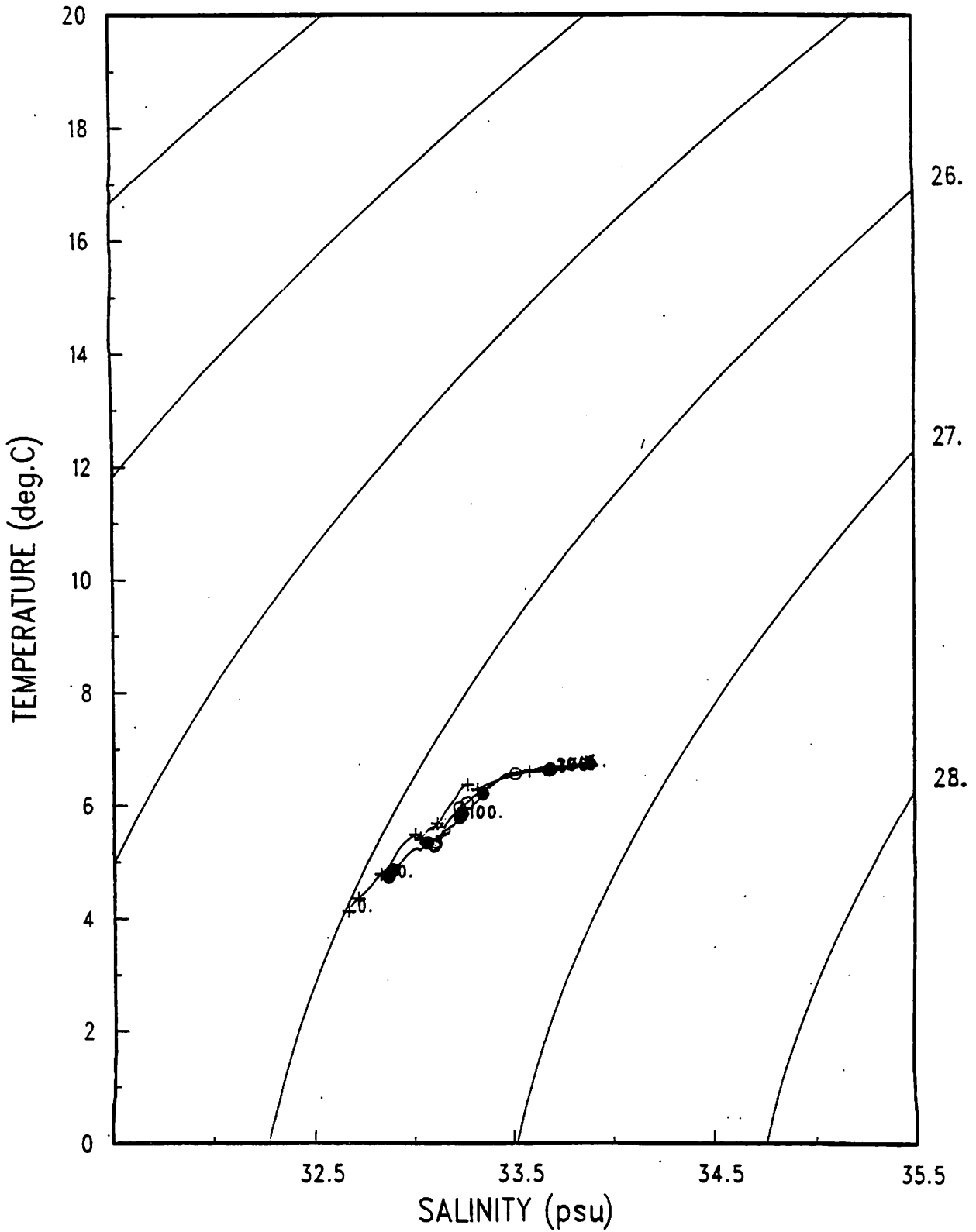


OC181--TS Diagram--Section 10

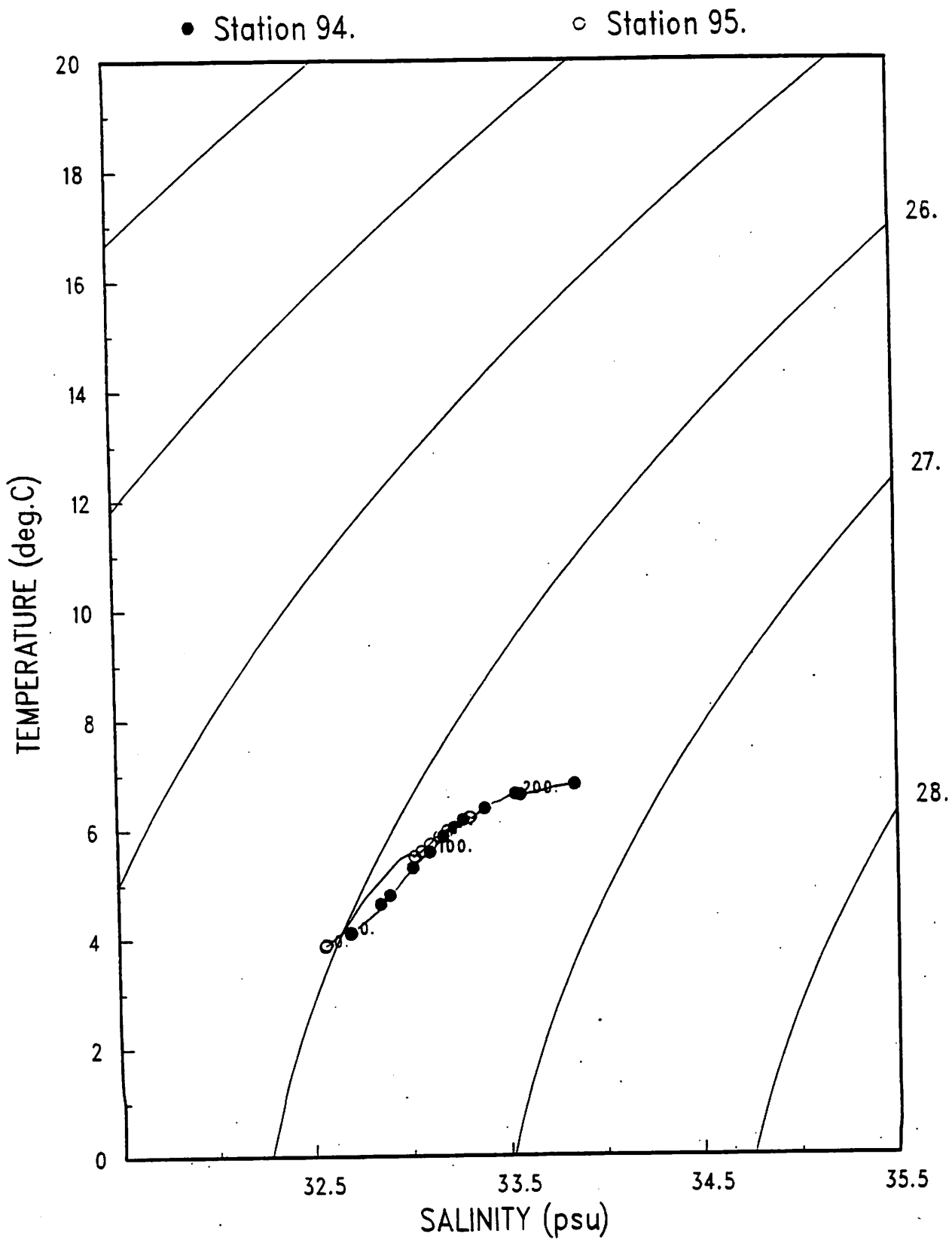
● Station 91.

+ Station 93.

○ Station 92.



OC181--TS Diagram--Section 10



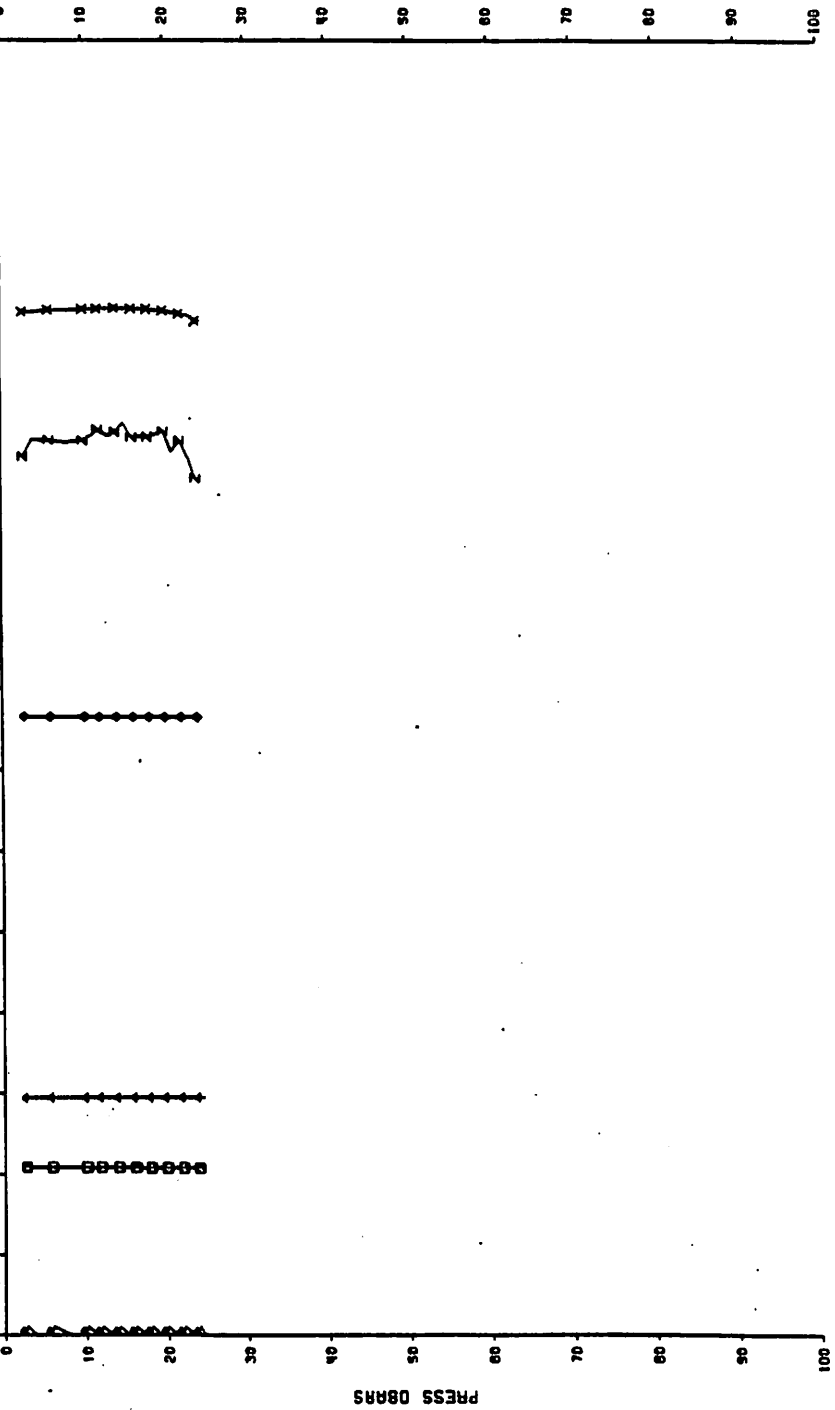
Station profiles

Vertical profiles of temperature, salinity, sigma-t, oxygen, attenuation coefficient, and Brunt-Vaisala frequency are presented at each station (figures 46a-140a). The profiles are drawn using the 2-dbar-averaged data; at approximately 10 dbars above the bottom, the averaging interval becomes 1 dbar. The data are listed in Appendix I. The different symbols used to distinguish variables are shown on each variable axis. The units of salinity are practical salinity units (psu) and are defined by Lewis (1980).

Vertical profiles of silicon, nitrogen and phosphorus are also presented at each station (figures 46b-140b). The data are listed in Table 7.

0C181U CAST #1

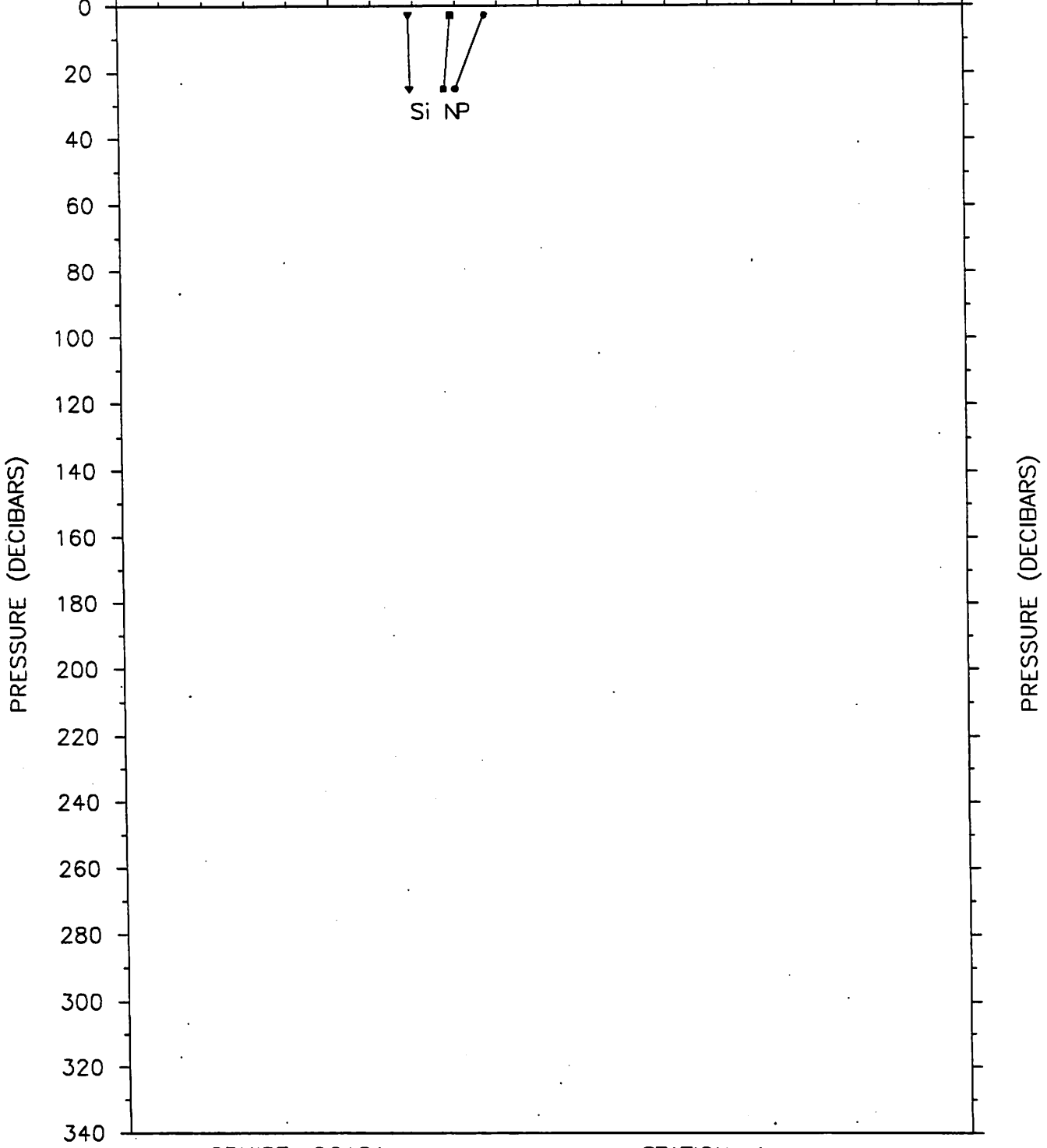
| | | | | | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0.00 | 3.13 | 6.25 | 9.38 | 12.50 | 15.63 | 18.75 | 21.87 | 25.00 | 28.12 | 31.25 | 34.38 | 37.50 | 40.63 | 43.75 | 46.88 | 50.00 |
| 0.00 | 0.05 | 0.10 | 0.15 | 0.20 | 0.25 | 0.30 | 0.35 | 0.40 | 0.45 | 0.50 | 0.55 | 0.60 | 0.65 | 0.70 | 0.75 | 0.80 |
| 0.00 | 0.03 | 1.25 | 1.00 | 2.50 | 2.13 | 3.75 | 4.38 | 5.00 | 5.63 | 6.25 | 6.88 | 7.50 | 8.13 | 8.75 | 9.38 | 10.00 |
| 22.00 | 22.50 | 23.00 | 23.50 | 24.00 | 24.50 | 25.00 | 25.50 | 26.00 | 26.50 | 27.00 | 27.50 | 28.00 | 28.50 | 29.00 | 29.50 | 30.00 |
| 32.00 | 32.25 | 32.50 | 32.75 | 33.00 | 33.25 | 33.50 | 33.75 | 34.00 | 34.25 | 34.50 | 34.75 | 35.00 | 35.25 | 35.50 | 35.75 | 36.00 |



SiO4 (μM)
0 5 10 15 20 25 30

NO3 + NO2 (μM)
0 5 10 15 20 25

PO4 (μM)
0.0 0.5 1.0 1.5 2.0

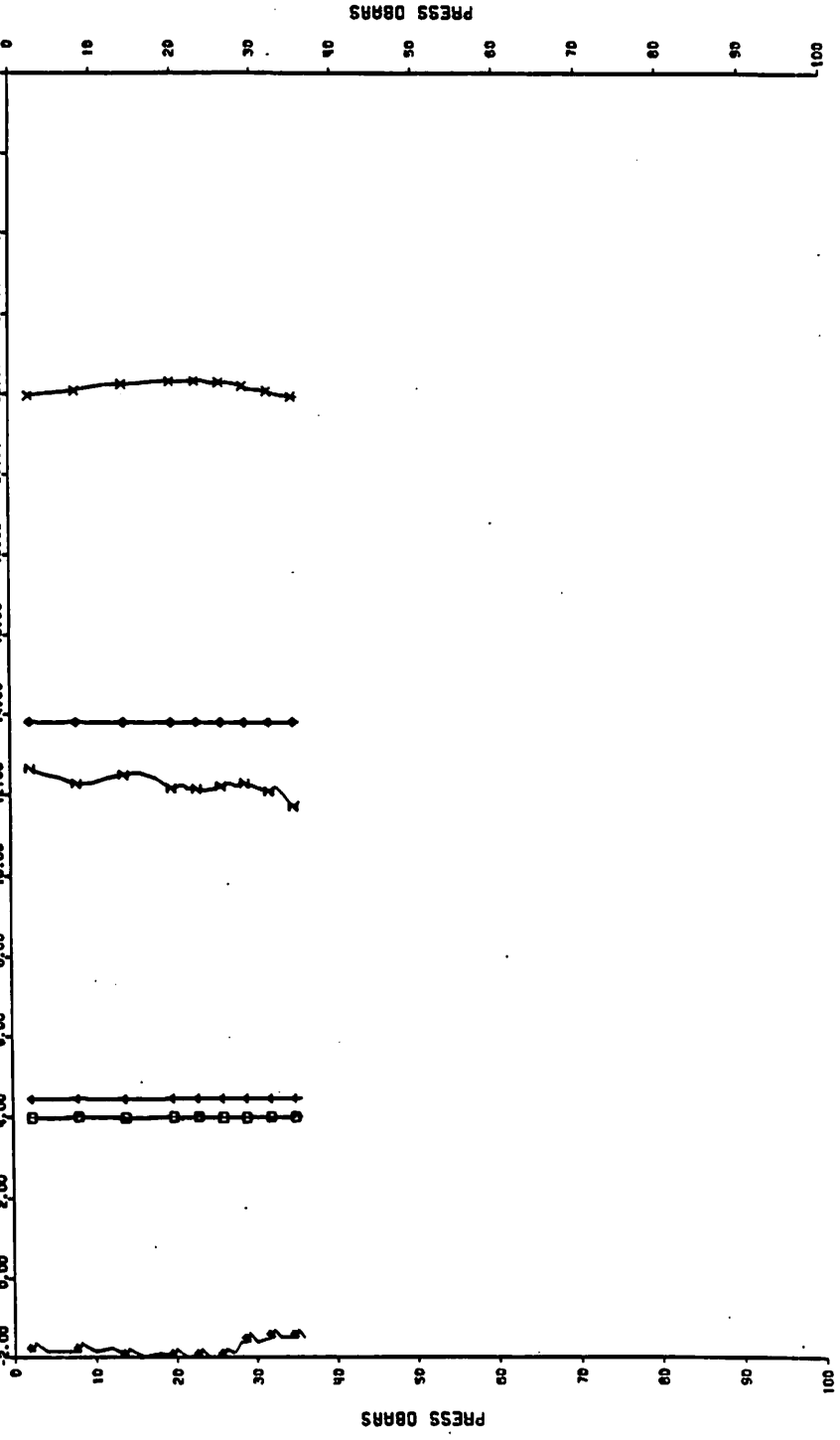


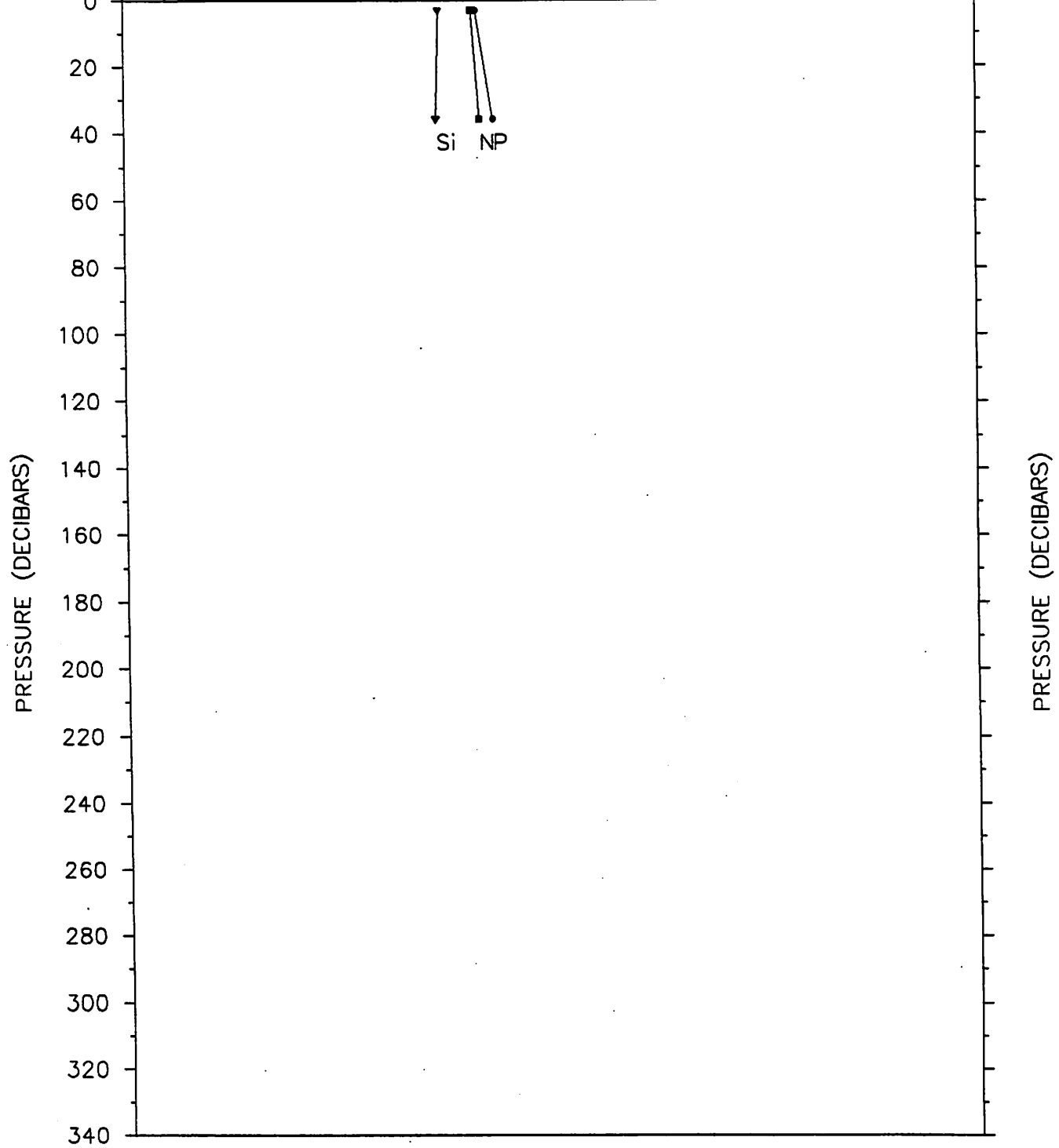
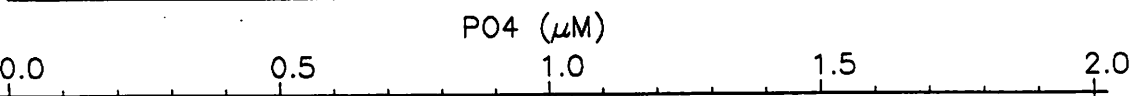
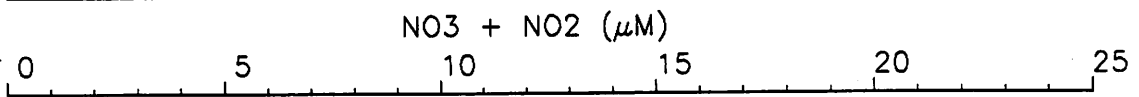
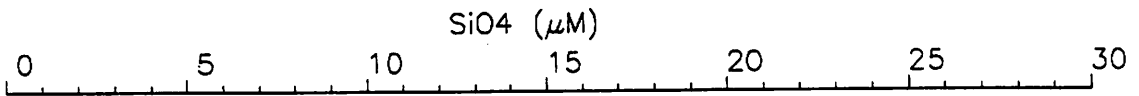
CRUISE: OC181
5 FEB 87
19: 15: 00 GMT

STATION: 1
41 26.08 N
69 37.80 W

OCIBIA CAST #2

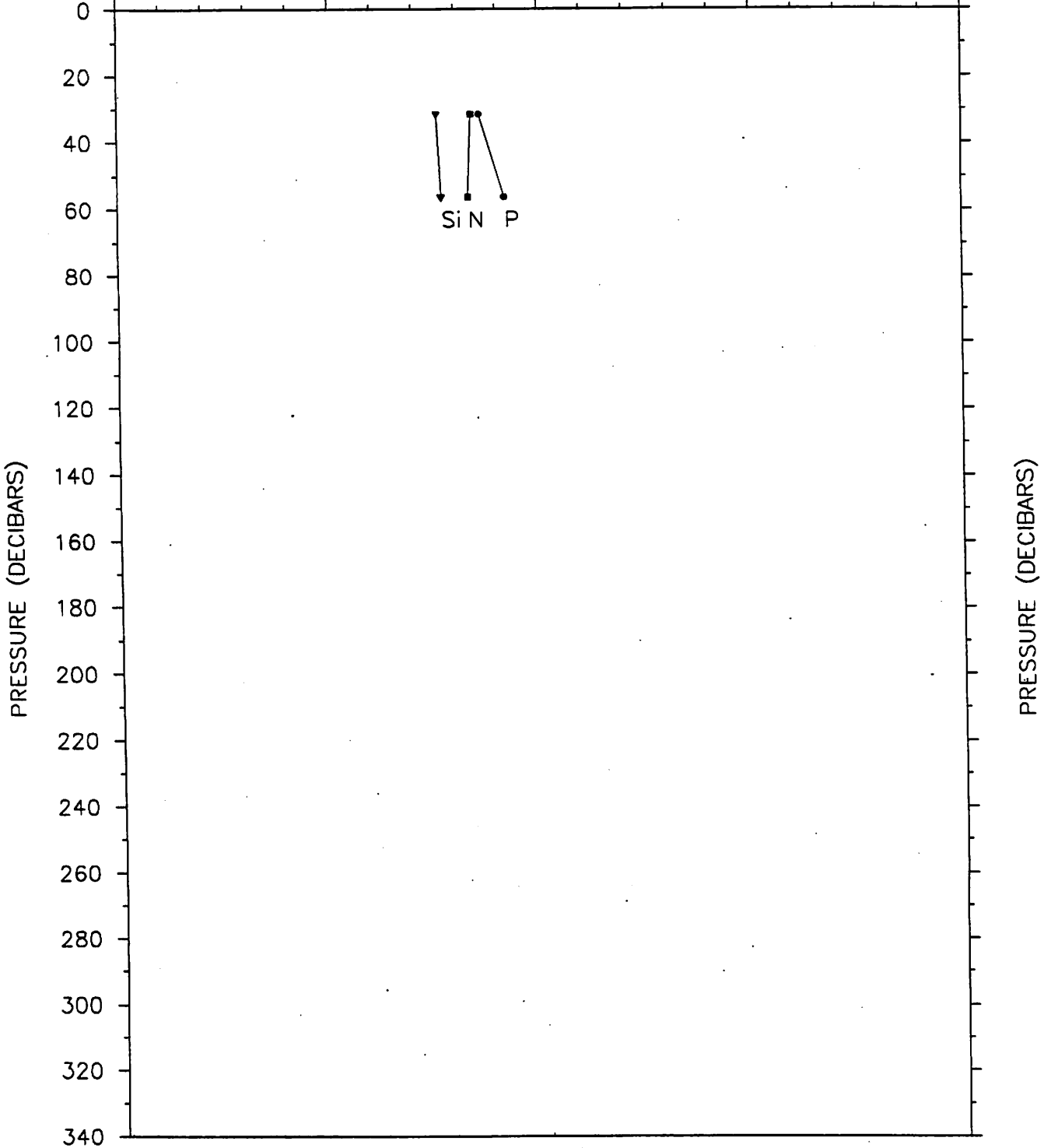
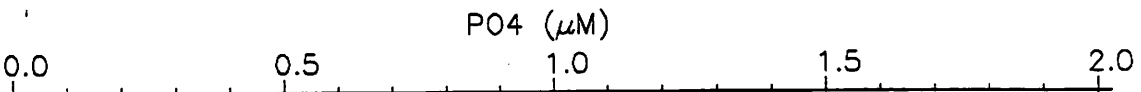
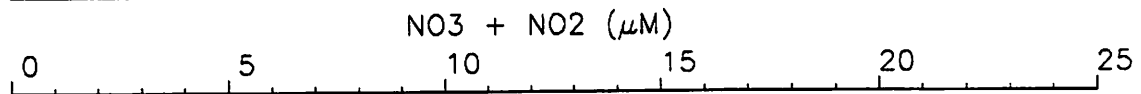
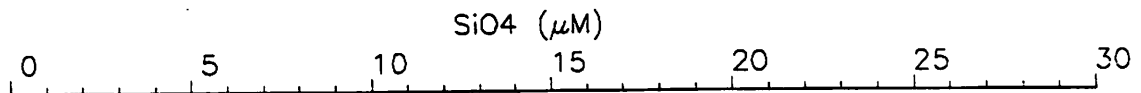
| | | | | | | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------------|-------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0.00 | 3.13 | 9.25 | 9.39 | 12.50 | 15.63 | 19.75 | 21.87 | M CPH | 25.00 | 28.12 | 31.25 | 34.38 | 37.50 | 40.63 | 43.75 | 46.88 | 50.00 |
| 0.00 | 0.05 | 0.10 | 0.15 | 0.20 | 0.25 | 0.30 | 0.35 | RAIN COEFF | M | 0.45 | 0.50 | 0.55 | 0.60 | 0.65 | 0.70 | 0.75 | 0.80 |
| 0.00 | 0.63 | 1.25 | 1.88 | 2.50 | 3.13 | 3.75 | 4.38 | OXYGEN ML/L | 5.00 | 5.63 | 6.25 | 6.88 | 7.50 | 8.13 | 8.75 | 9.38 | 10.00 |
| 22.00 | 22.50 | 23.00 | 23.50 | 24.00 | 24.50 | 25.00 | 25.50 | SIGMA-T | KG/M ² | 26.00 | 27.00 | 28.00 | 29.00 | 29.50 | 29.50 | 29.50 | 30.00 |
| 32.00 | 32.25 | 32.50 | 32.75 | 33.00 | 33.25 | 33.50 | 33.75 | SIGMA-T | KG/M ² | 34.00 | 34.50 | 35.00 | 35.00 | 35.00 | 35.00 | 35.00 | 35.00 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | TEMP C | 18.00 | 18.00 | 19.00 | 20.00 | 20.00 | 21.00 | 21.00 | 21.00 | 21.00 |





CRUISE: OC181
5 FEB 87
20: 07: 30 GMT

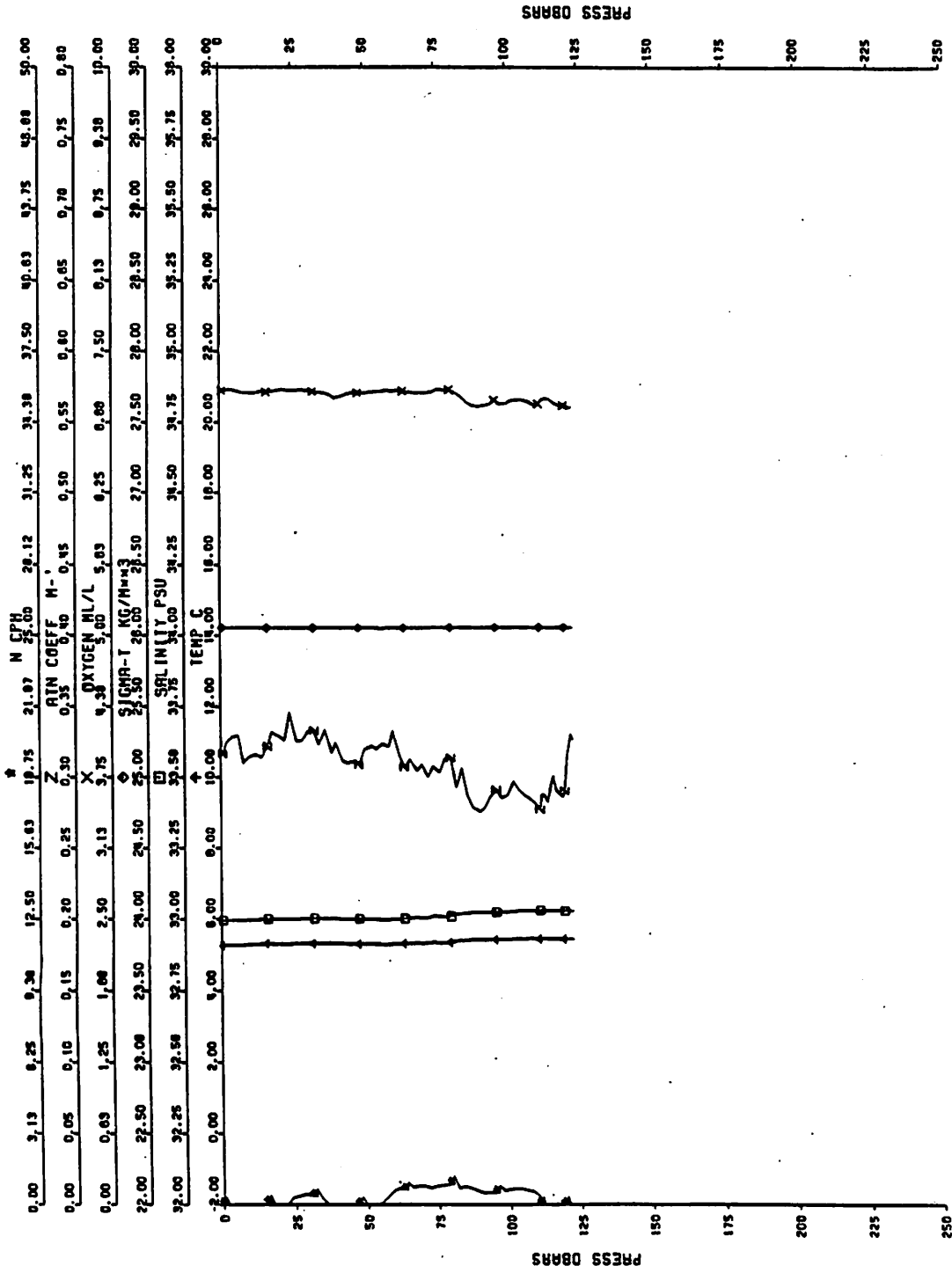
STATION: 2
41 29.00 N
69 31.10 W

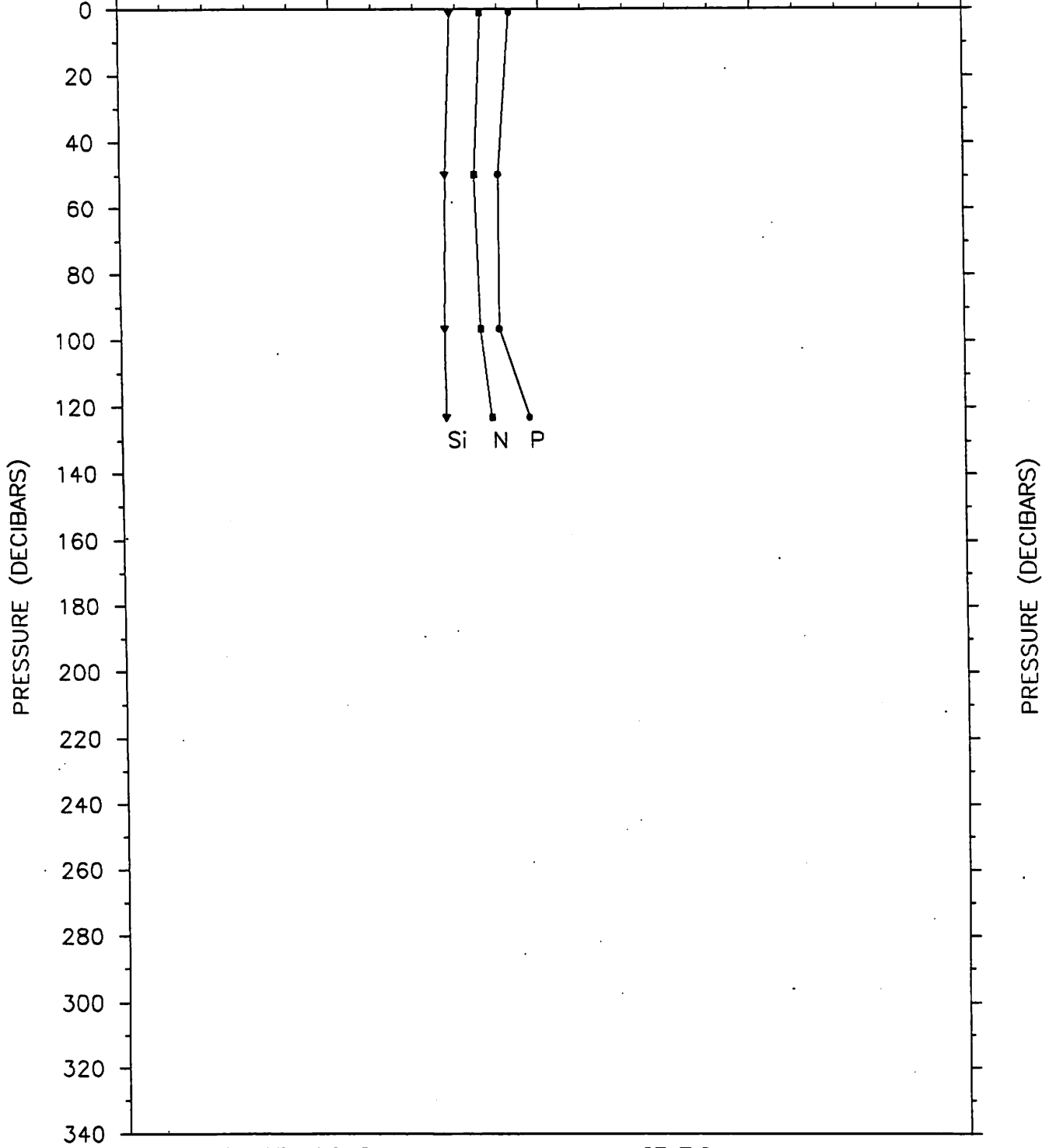
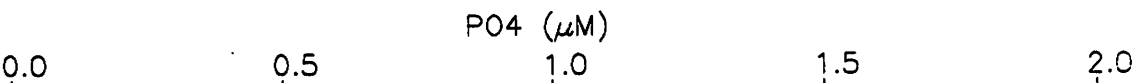
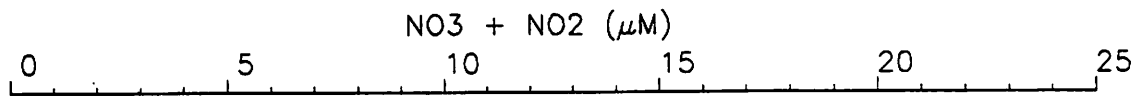
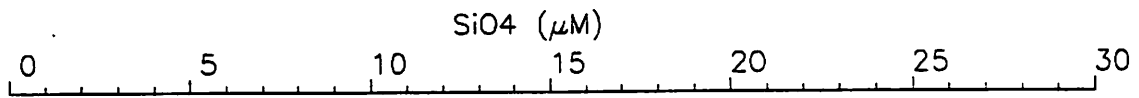


CRUISE: OC181
5 FEB 87
20: 52: 30 GMT

STATION: 3
41 30.00 N
69 25.11 W

0C181B CAST #4



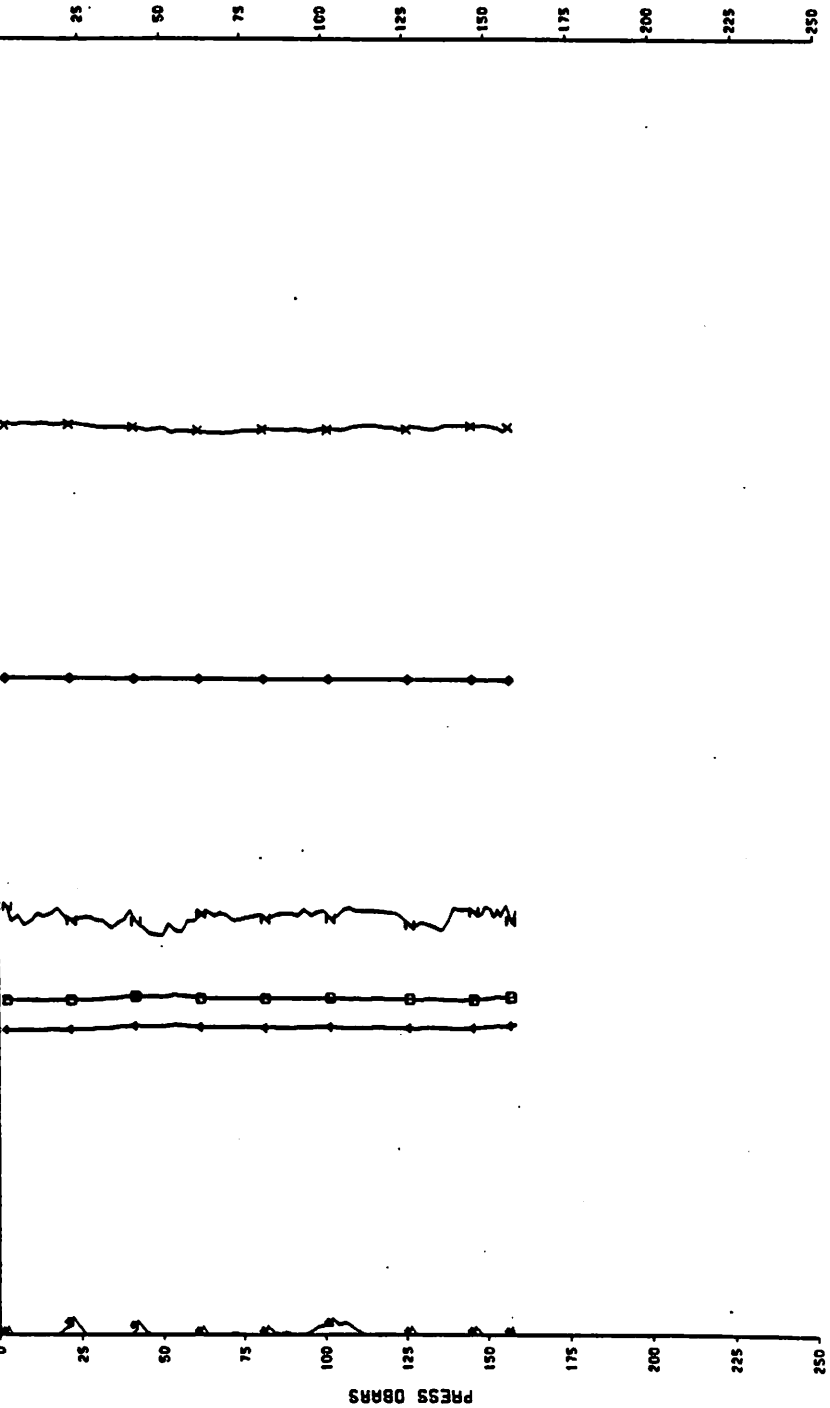


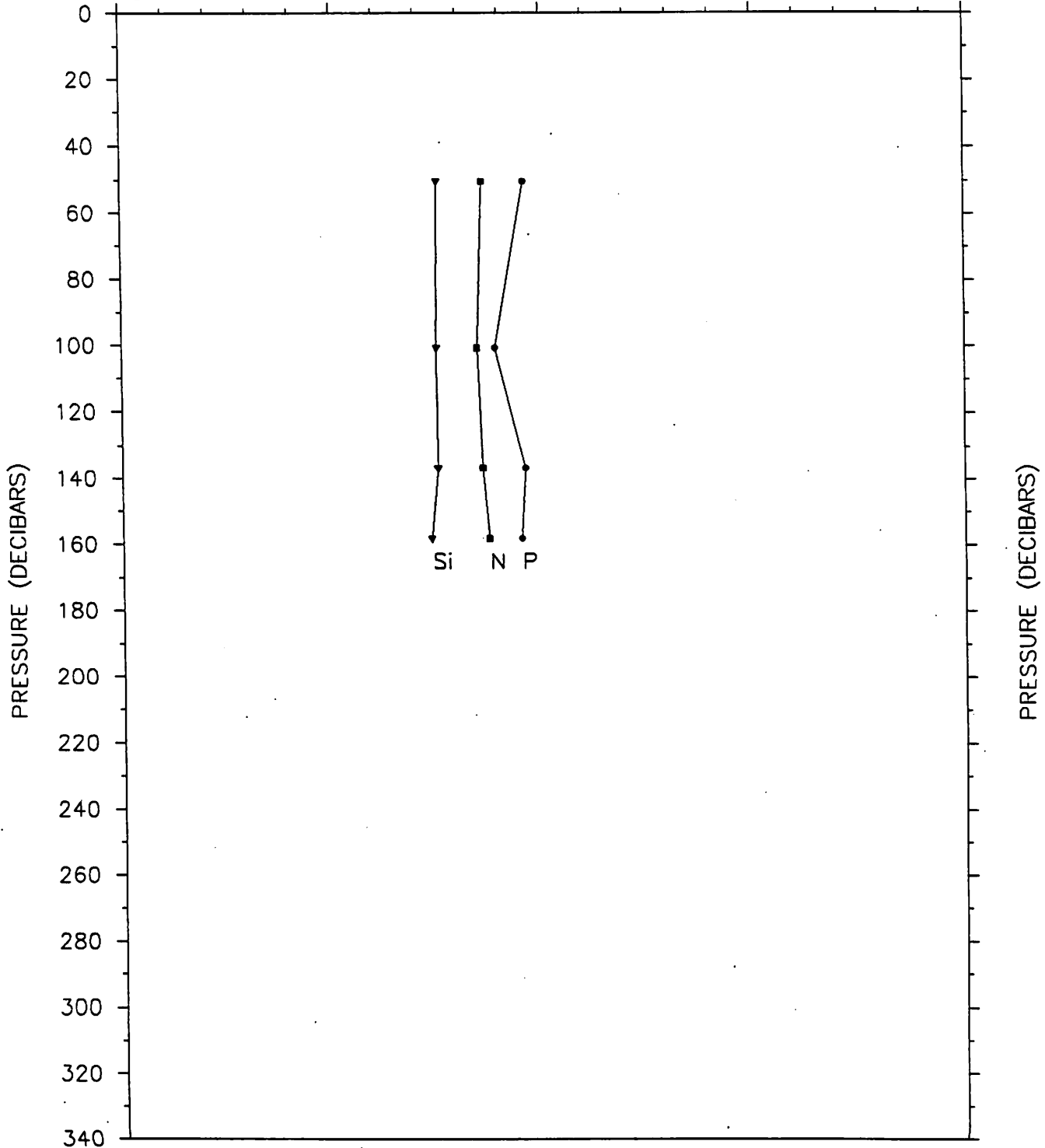
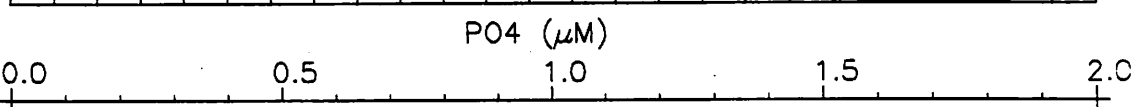
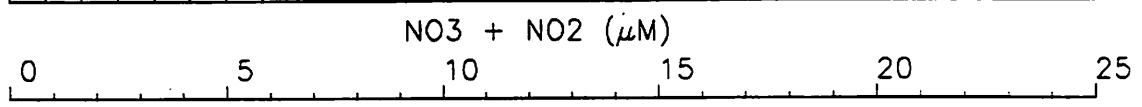
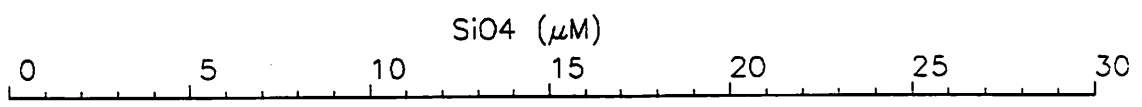
CRUISE: OC181
 5 FEB 87
 22: 15: 00 GMT

STATION: 4
 41 31.56 N
 69 18.00 W

001818 CAST #5

| | | | | | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0.00 | 3.19 | 9.25 | 9.36 | 12.50 | 15.63 | 19.75 | 21.87 | 25.00 | 28.12 | 31.25 | 34.38 | 37.50 | 40.63 | 43.75 | 46.88 | 50.00 |
| 0.00 | 0.05 | 0.10 | 0.15 | 0.20 | 0.25 | 0.30 | 0.35 | 0.40 | 0.45 | 0.50 | 0.55 | 0.60 | 0.65 | 0.70 | 0.75 | 0.80 |
| 0.00 | 0.63 | 1.25 | 1.88 | 2.50 | 3.13 | 3.75 | 4.38 | 5.00 | 5.63 | 6.25 | 6.88 | 7.50 | 8.13 | 8.75 | 9.38 | 10.00 |
| 22.00 | 22.50 | 23.00 | 23.50 | 24.00 | 24.50 | 25.00 | 25.50 | 26.00 | 26.50 | 27.00 | 27.50 | 28.00 | 28.50 | 29.00 | 29.50 | 30.00 |
| 32.00 | 32.25 | 32.50 | 32.75 | 33.00 | 33.25 | 33.50 | 33.75 | 34.00 | 34.25 | 34.50 | 34.75 | 35.00 | 35.25 | 35.50 | 35.75 | 36.00 |

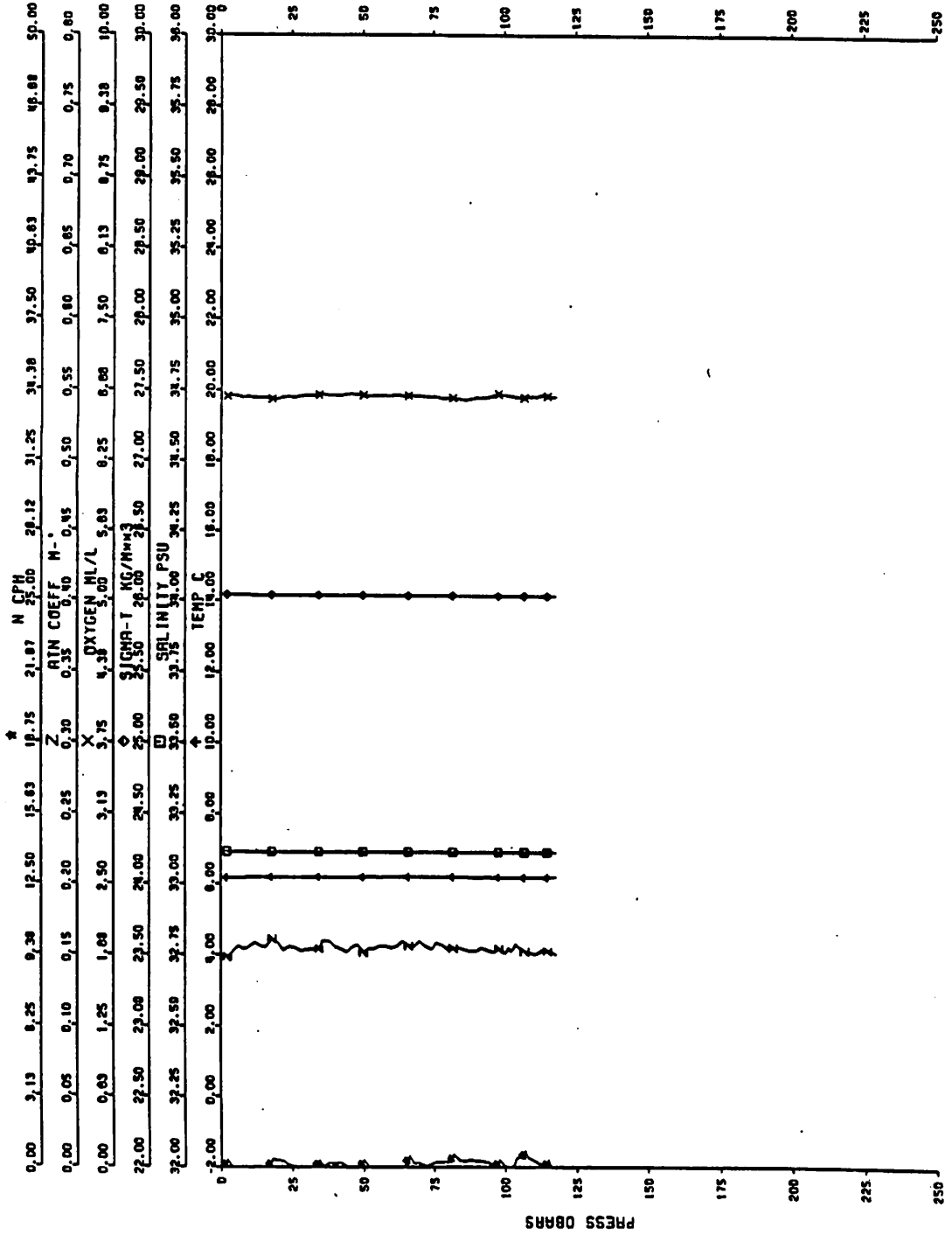




CRUISE: OC181
 5 FEB 87
 23: 45: 00 GMT

STATION: 5
 41 34.03 N
 69 05.01 W

0C181U CAST #6



SiO4 (μM)

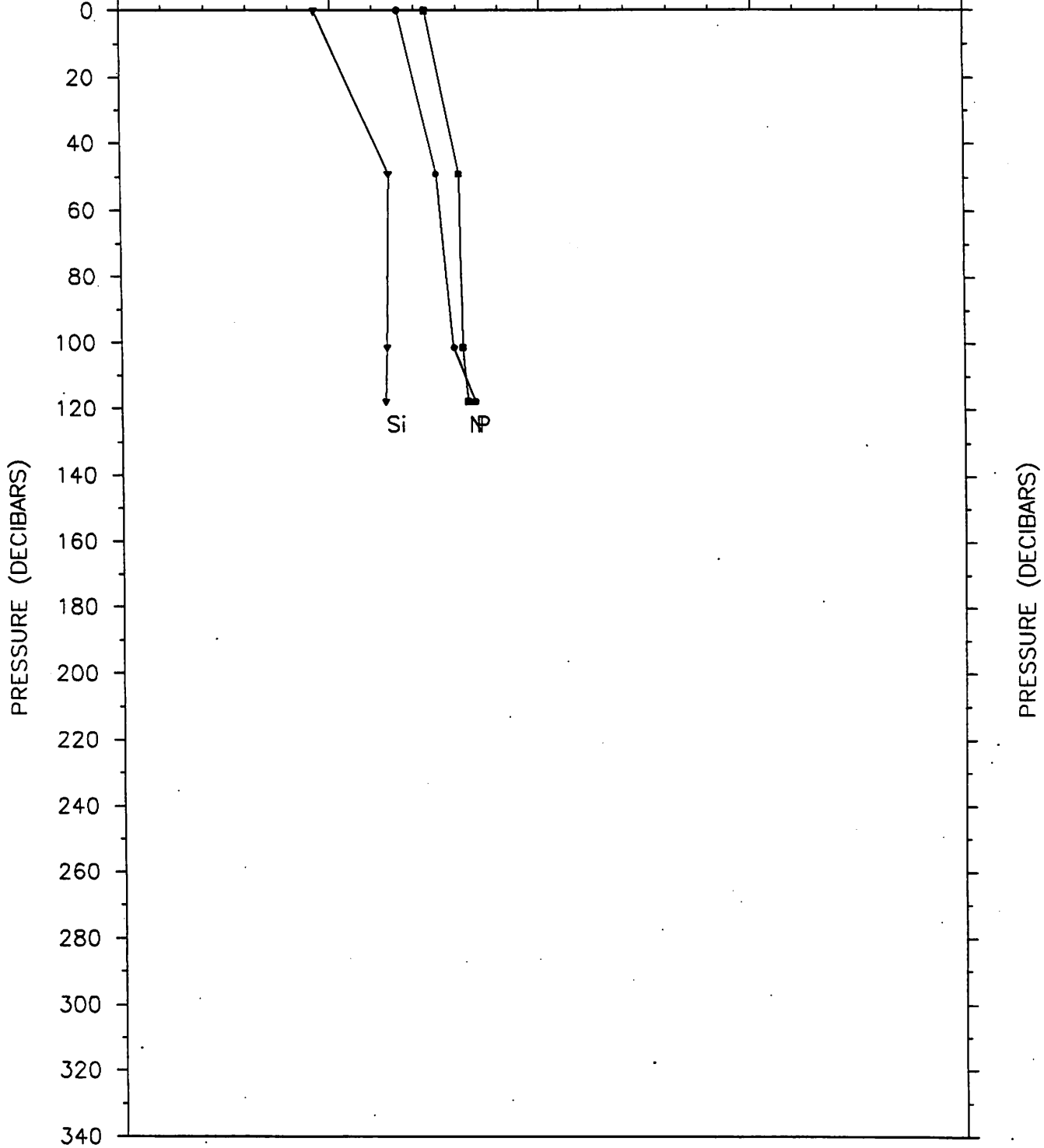
0 5 10 15 20 25 30

NO3 + NO2 (μM)

0 5 10 15 20 25

PO4 (μM)

0.0 0.5 1.0 1.5 2.0

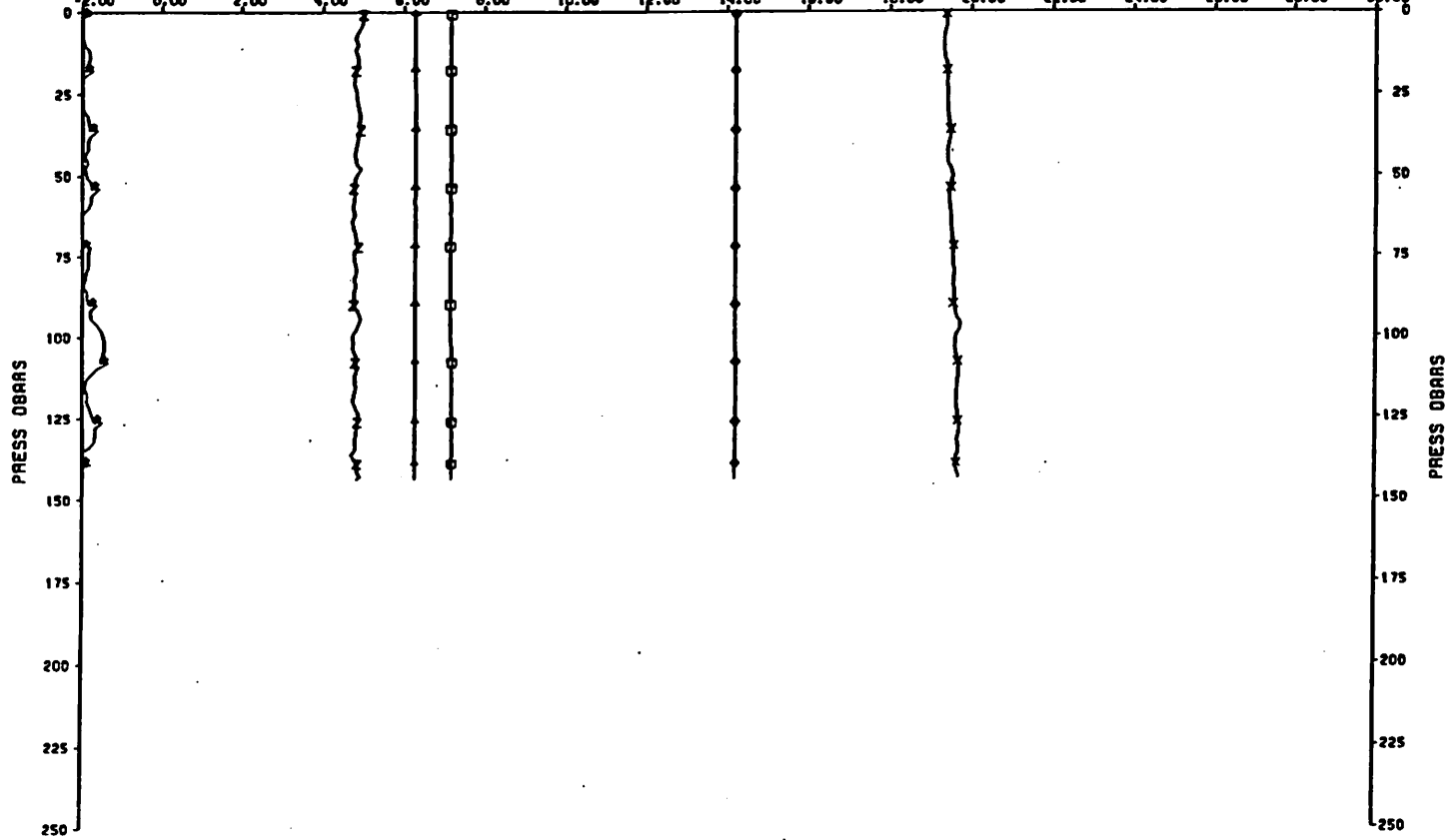


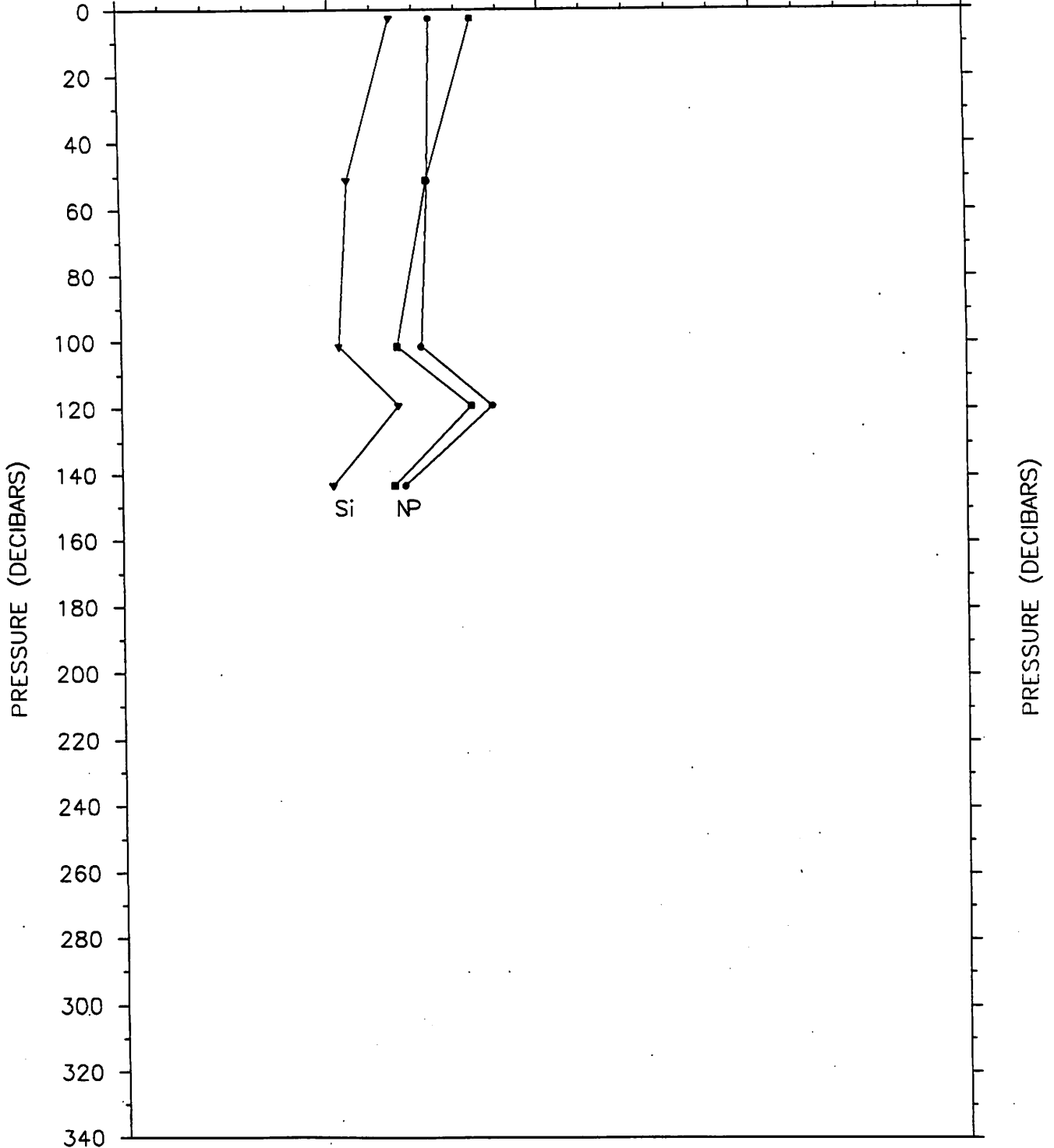
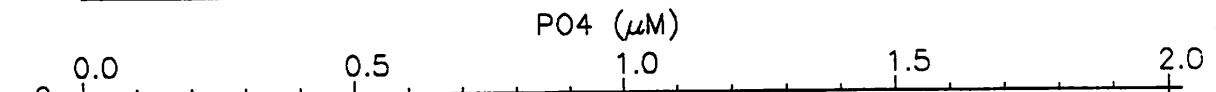
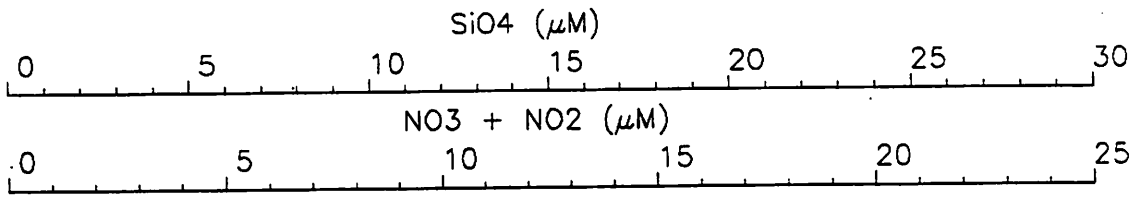
CRUISE: OC181
6 FEB 87
01: 30: 00 GMT

STATION: 6
41 37.04 N
68 52.03 W

0C181A CAST #7

| | | | | | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0.00 | 3.13 | 6.25 | 9.38 | 12.50 | 15.63 | 18.75 | 21.87 | 25.00 | 28.12 | 31.25 | 34.38 | 37.50 | 40.63 | 43.75 | 46.88 | 50.00 |
| 0.00 | 0.05 | 0.10 | 0.15 | 0.20 | 0.25 | 0.30 | 0.35 | 0.40 | 0.45 | 0.50 | 0.55 | 0.60 | 0.65 | 0.70 | 0.75 | 0.80 |
| 0.00 | 0.03 | 1.25 | 1.68 | 2.50 | 3.13 | 3.75 | 4.38 | 5.00 | 5.63 | 6.25 | 6.88 | 7.50 | 8.13 | 8.75 | 9.38 | 10.00 |
| 22.00 | 22.50 | 23.00 | 23.50 | 24.00 | 24.50 | 25.00 | 25.50 | 26.00 | 26.50 | 27.00 | 27.50 | 28.00 | 28.50 | 29.00 | 29.50 | 30.00 |
| 32.00 | 32.25 | 32.50 | 32.75 | 33.00 | 33.25 | 33.50 | 33.75 | 34.00 | 34.25 | 34.50 | 34.75 | 35.00 | 35.25 | 35.50 | 35.75 | 36.00 |
| 2.00 | 0.00 | 2.00 | 4.00 | 6.00 | 8.00 | 10.00 | 12.00 | 14.00 | 16.00 | 18.00 | 20.00 | 22.00 | 24.00 | 26.00 | 28.00 | 30.00 |

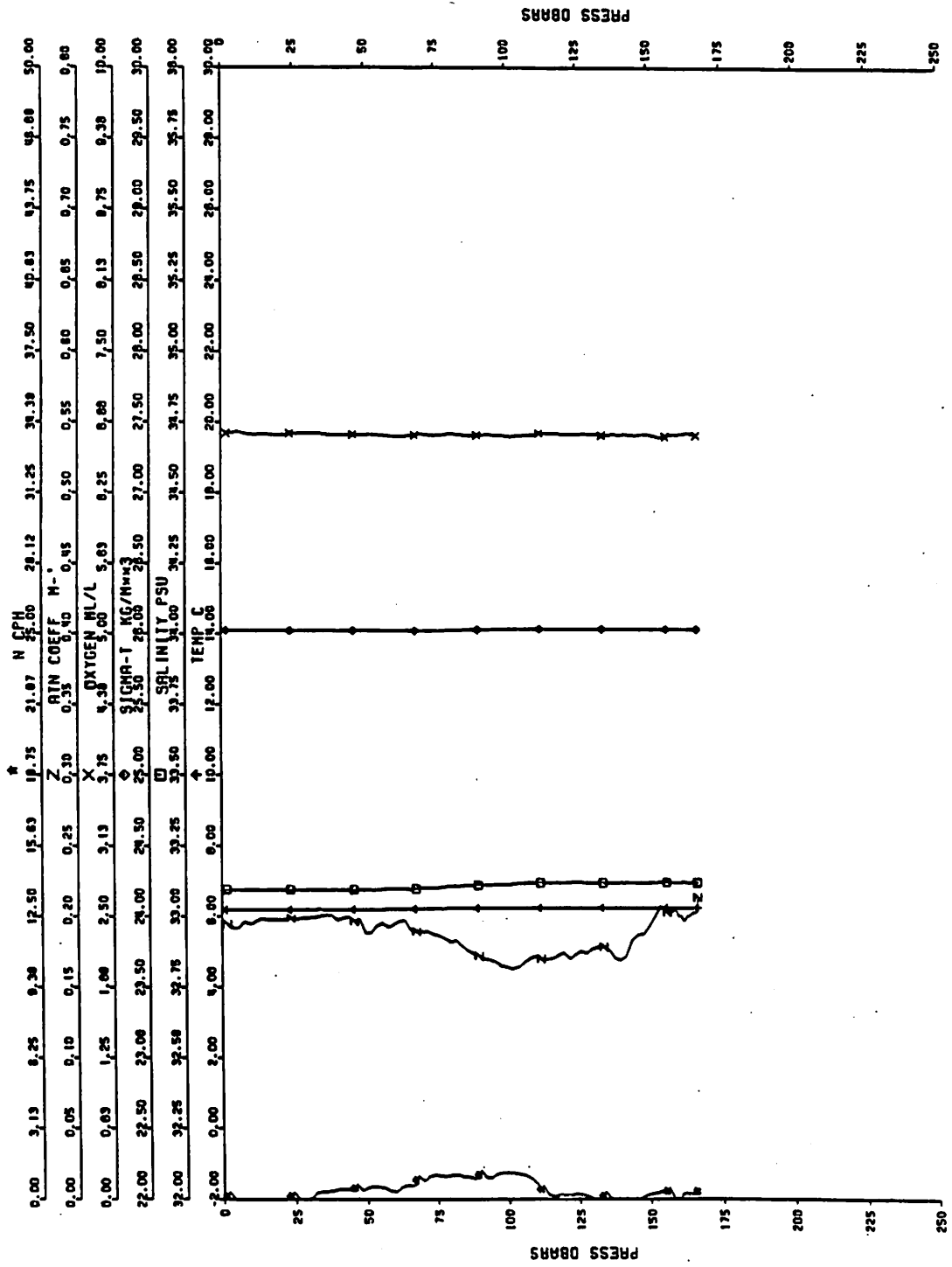


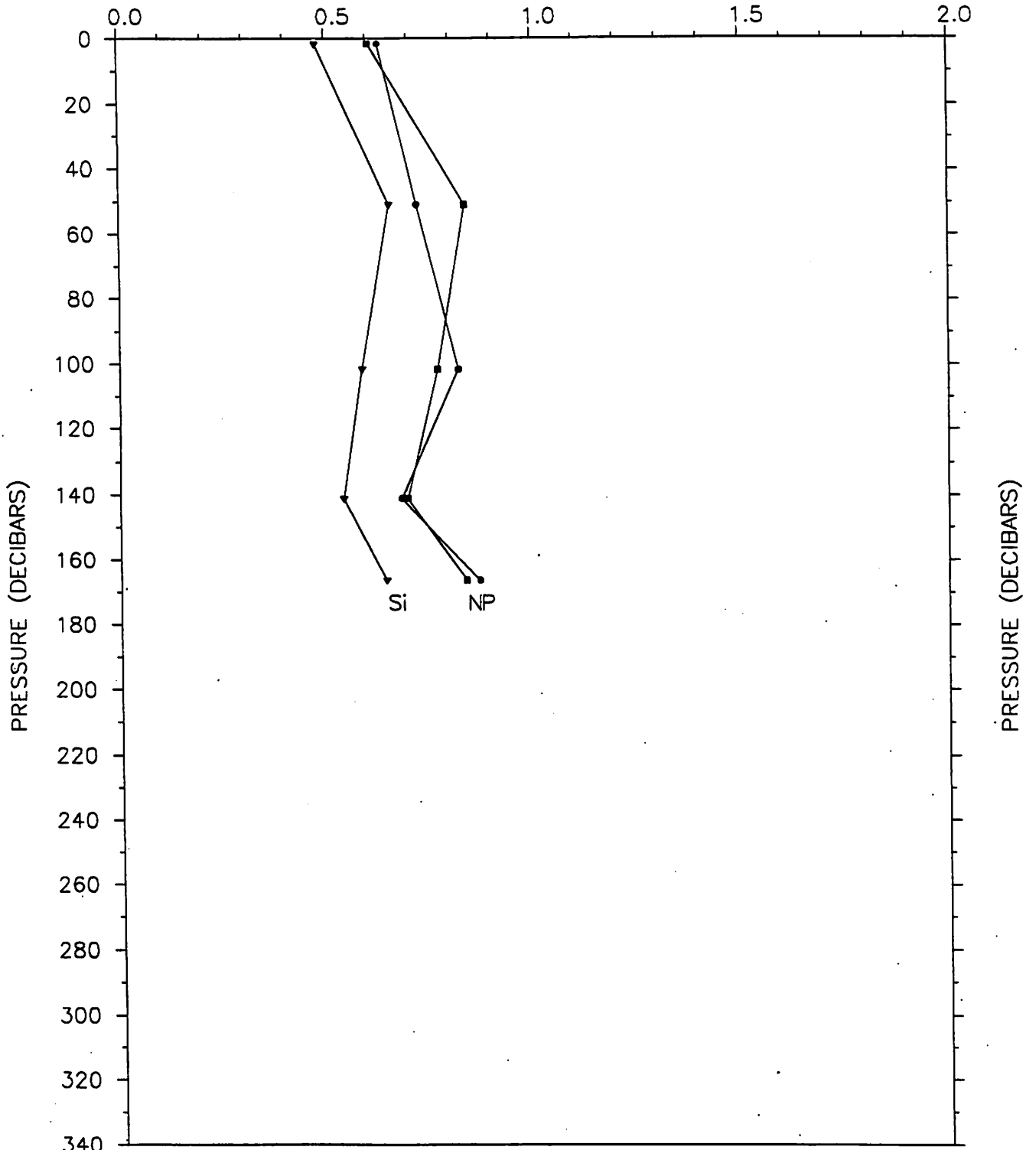
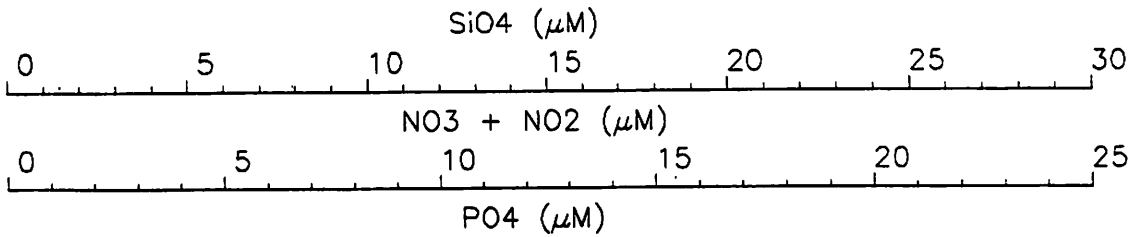


CRUISE: OC181
 6 FEB 87
 03: 00: 00 GMT

STATION: 7
 41 39.06 N
 68 39.02 W

0C181U CAST #8

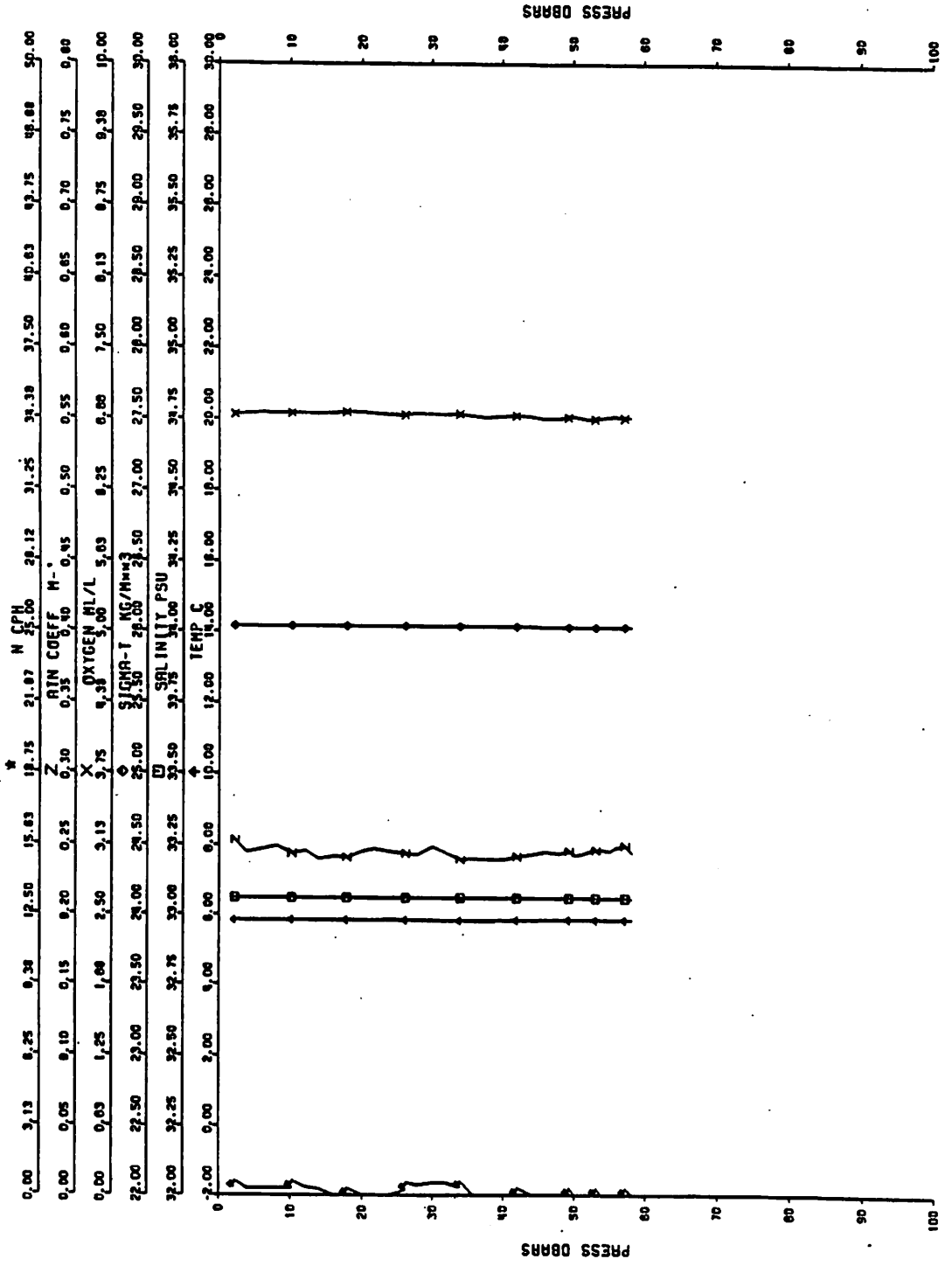


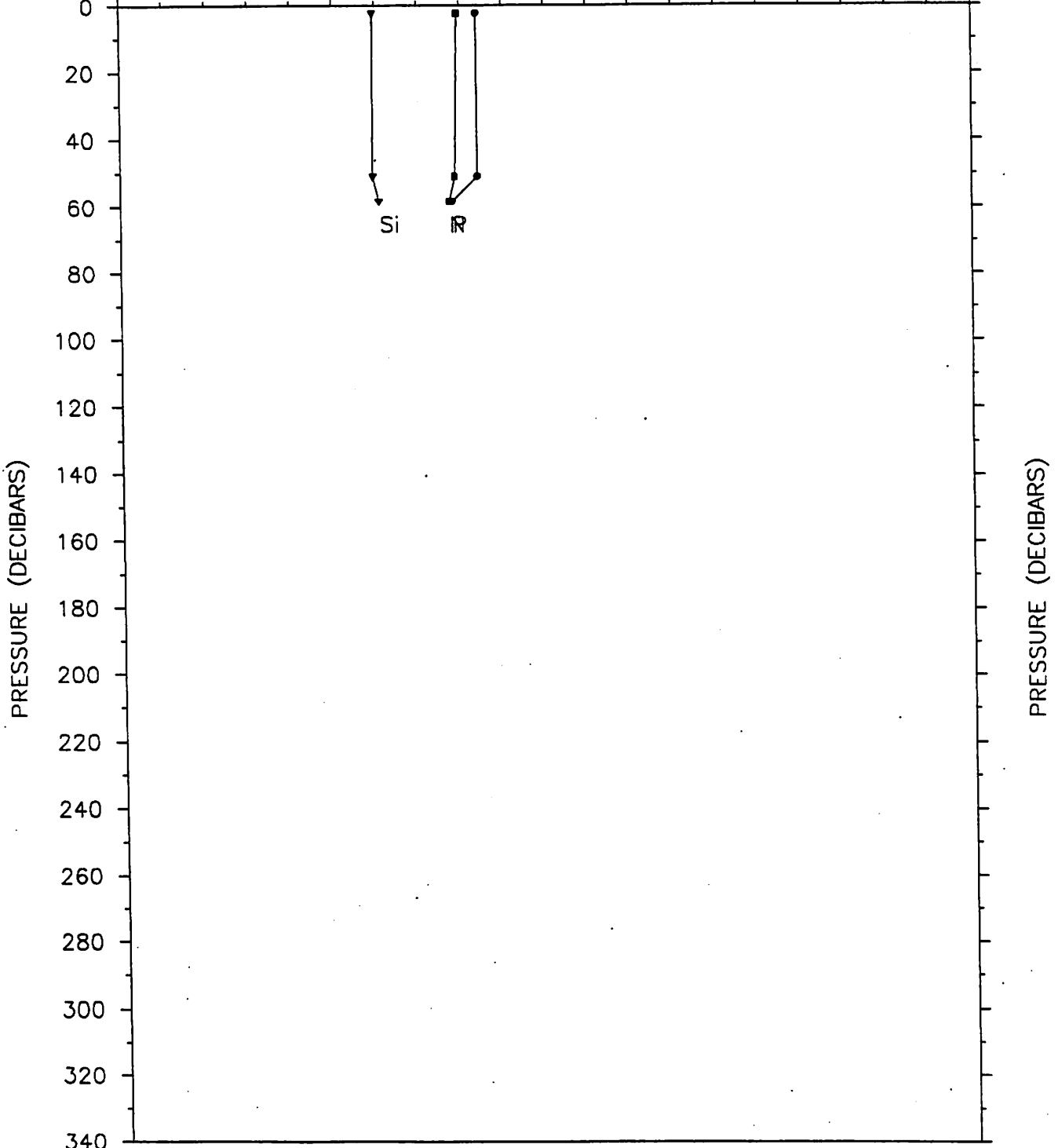
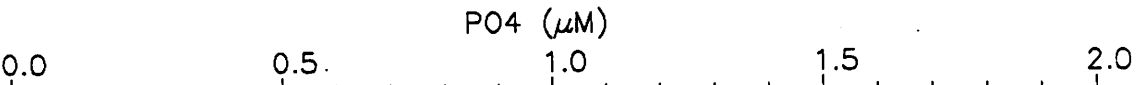
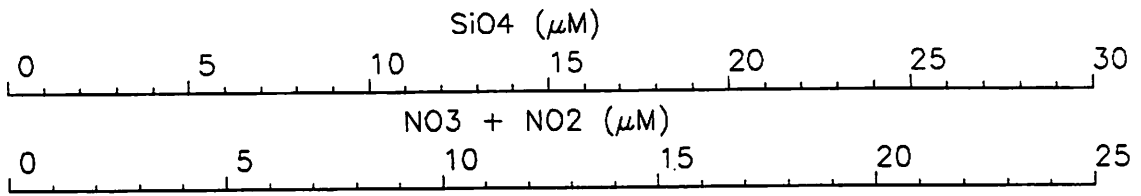


CRUISE: OC181
 6 FEB 87
 04: 22: 30 GMT

STATION: 8
 41 42.12 N
 68 25.96 W

0C181B CAST #9

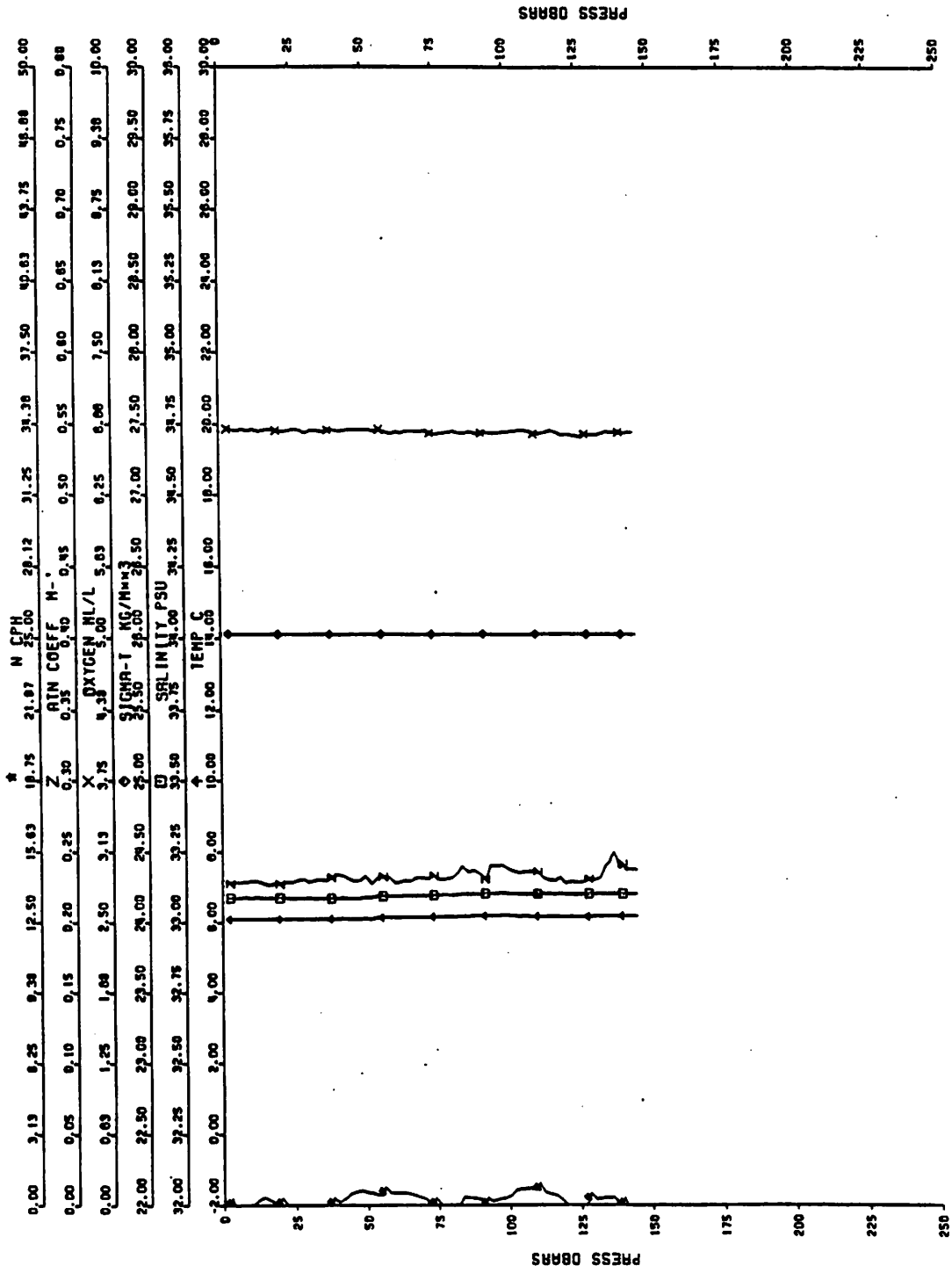




CRUISE: OC181
 6 FEB 87
 05: 52: 30 GMT

STATION: 9
 41 45.20 N
 68 11.80 W

0C181U CAST #10



SiO4 (μM)

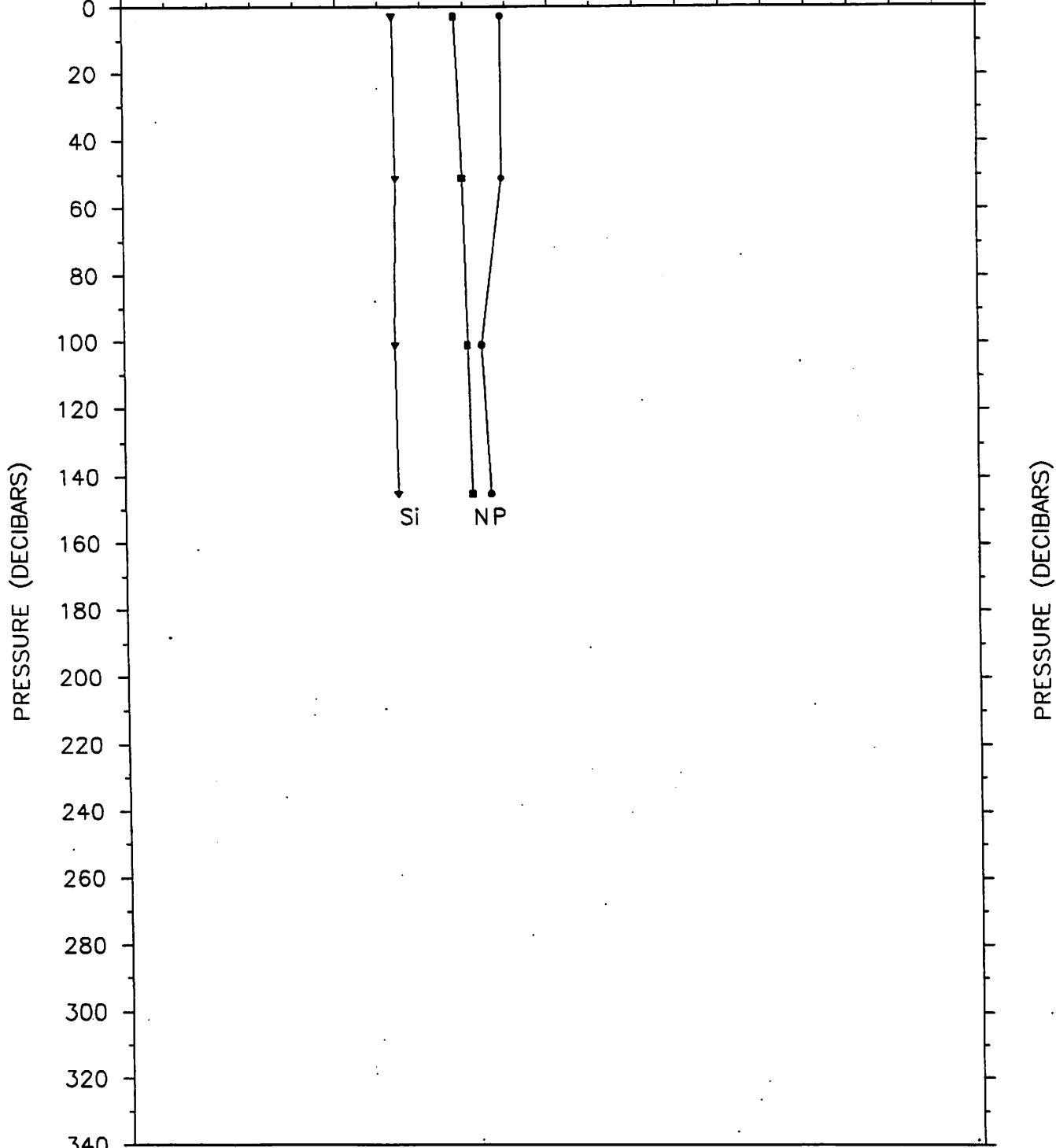
0 5 10 15 20 25 30

NO3 + NO2 (μM)

0 5 10 15 20 25

PO4 (μM)

0.0 0.5 1.0 1.5 2.0

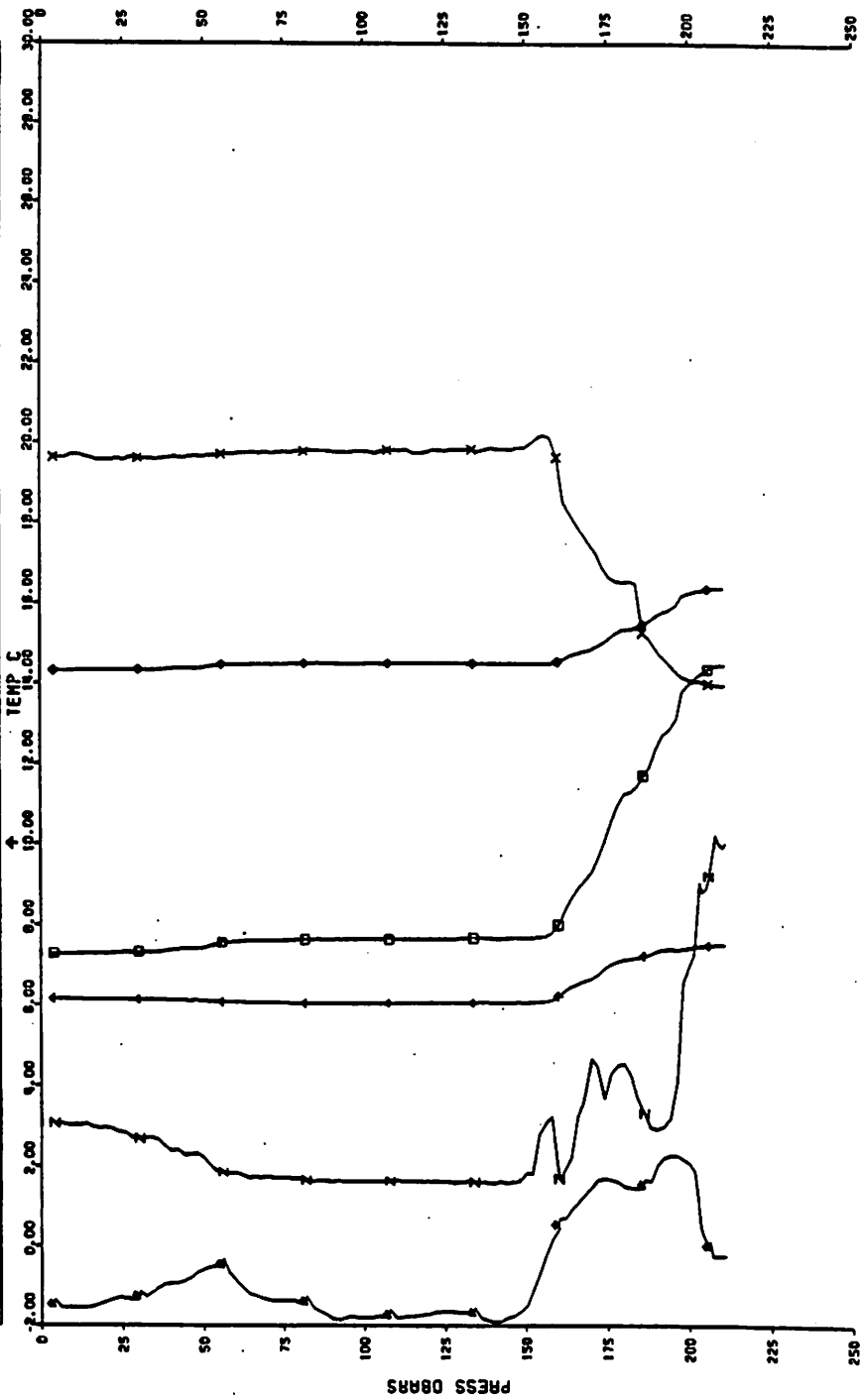


CRUISE: OC181
6 FEB 87
06: 30: 00 GMT

STATION: 10
41 49.06 N
68 15.07 W

0C181U CAST #11

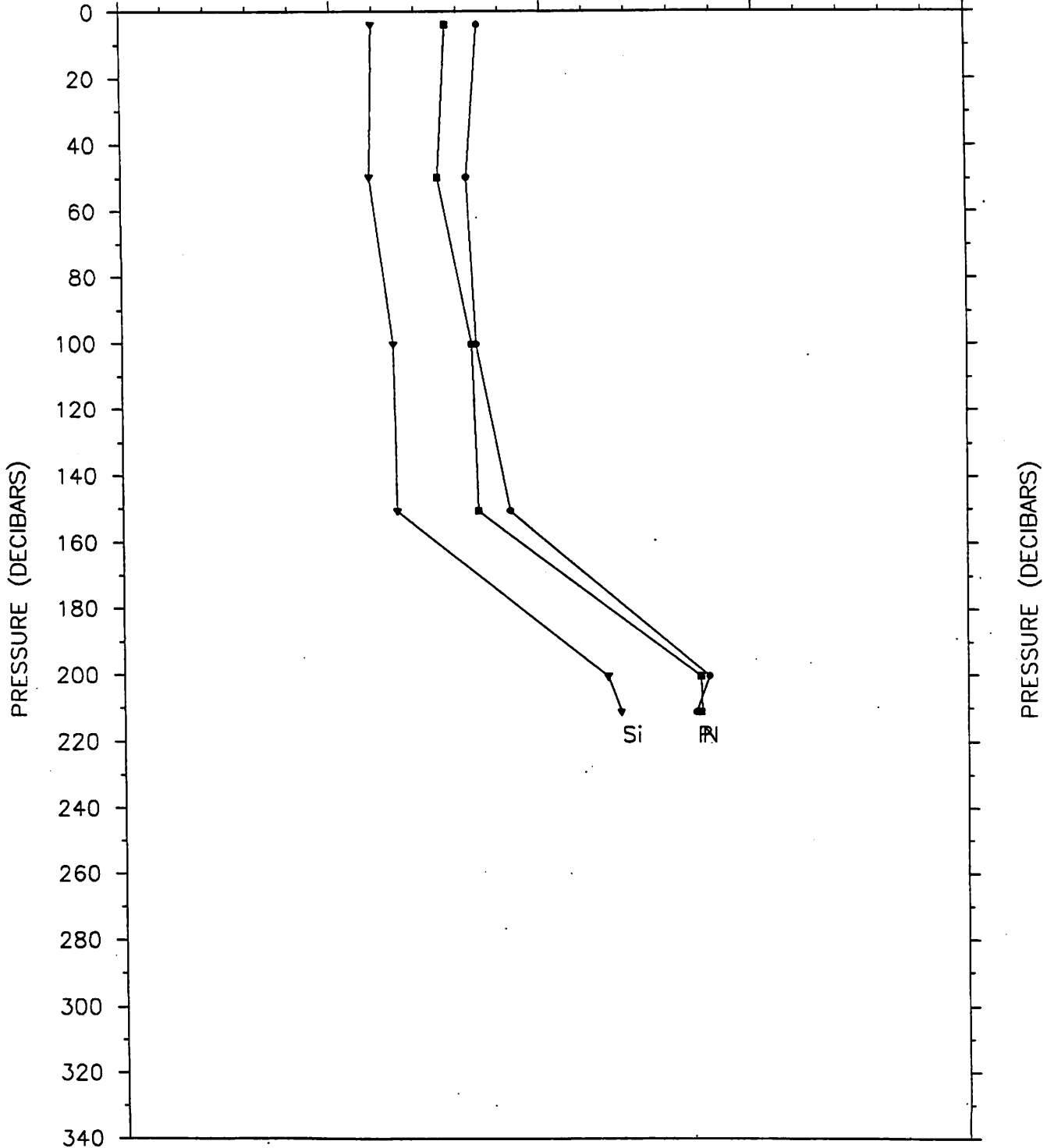
| | | | | | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0.00 | 3.13 | 6.25 | 9.38 | 12.50 | 15.63 | 18.75 | 21.87 | 25.00 | 28.12 | 31.25 | 34.38 | 37.50 | 40.63 | 43.75 | 46.88 | 50.00 |
| 0.00 | 0.05 | 0.10 | 0.15 | 0.20 | 0.25 | 0.30 | 0.35 | 0.40 | 0.45 | 0.50 | 0.55 | 0.60 | 0.65 | 0.70 | 0.75 | 0.80 |
| 0.00 | 0.03 | 1.25 | 1.06 | 2.50 | 3.13 | 3.75 | 4.38 | 5.00 | 5.63 | 6.25 | 6.88 | 7.50 | 8.13 | 8.75 | 9.38 | 10.00 |
| 22.00 | 22.50 | 23.00 | 23.50 | 24.00 | 24.50 | 25.00 | 25.50 | 26.00 | 26.50 | 27.00 | 27.50 | 28.00 | 28.50 | 29.00 | 29.50 | 30.00 |
| 32.00 | 32.25 | 32.50 | 32.75 | 33.00 | 33.25 | 33.50 | 33.75 | 34.00 | 34.25 | 34.50 | 34.75 | 35.00 | 35.25 | 35.50 | 35.75 | 36.00 |



SiO₄ (μ M)

NO₃ + NO₂ (μ M)

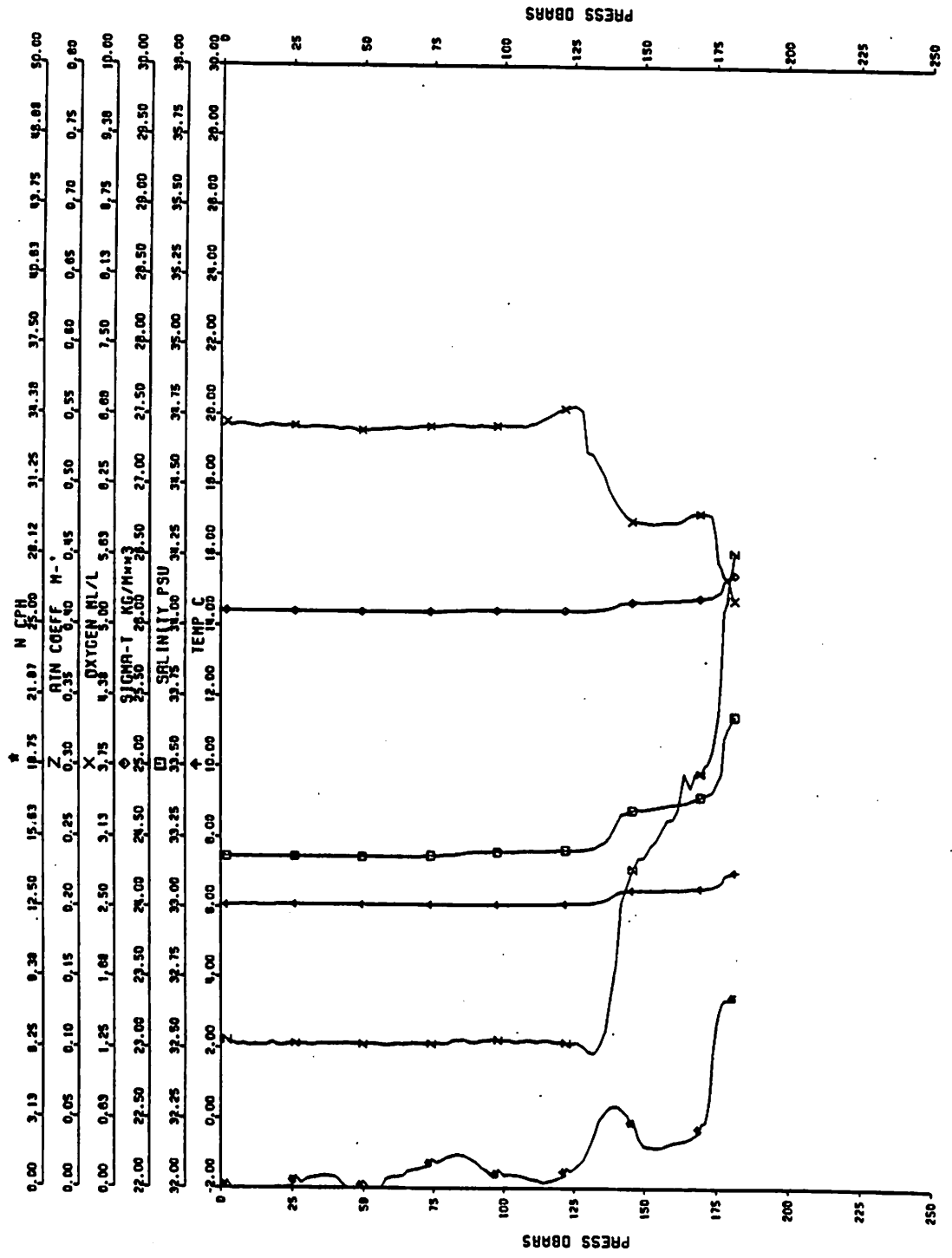
PO₄ (μ M)



CRUISE: OC181
6 FEB 87
07: 30: 00 GMT

STATION: 11
41 54.08 N
68 17.87 W

0C181U CAST #12



SiO4 (μM)

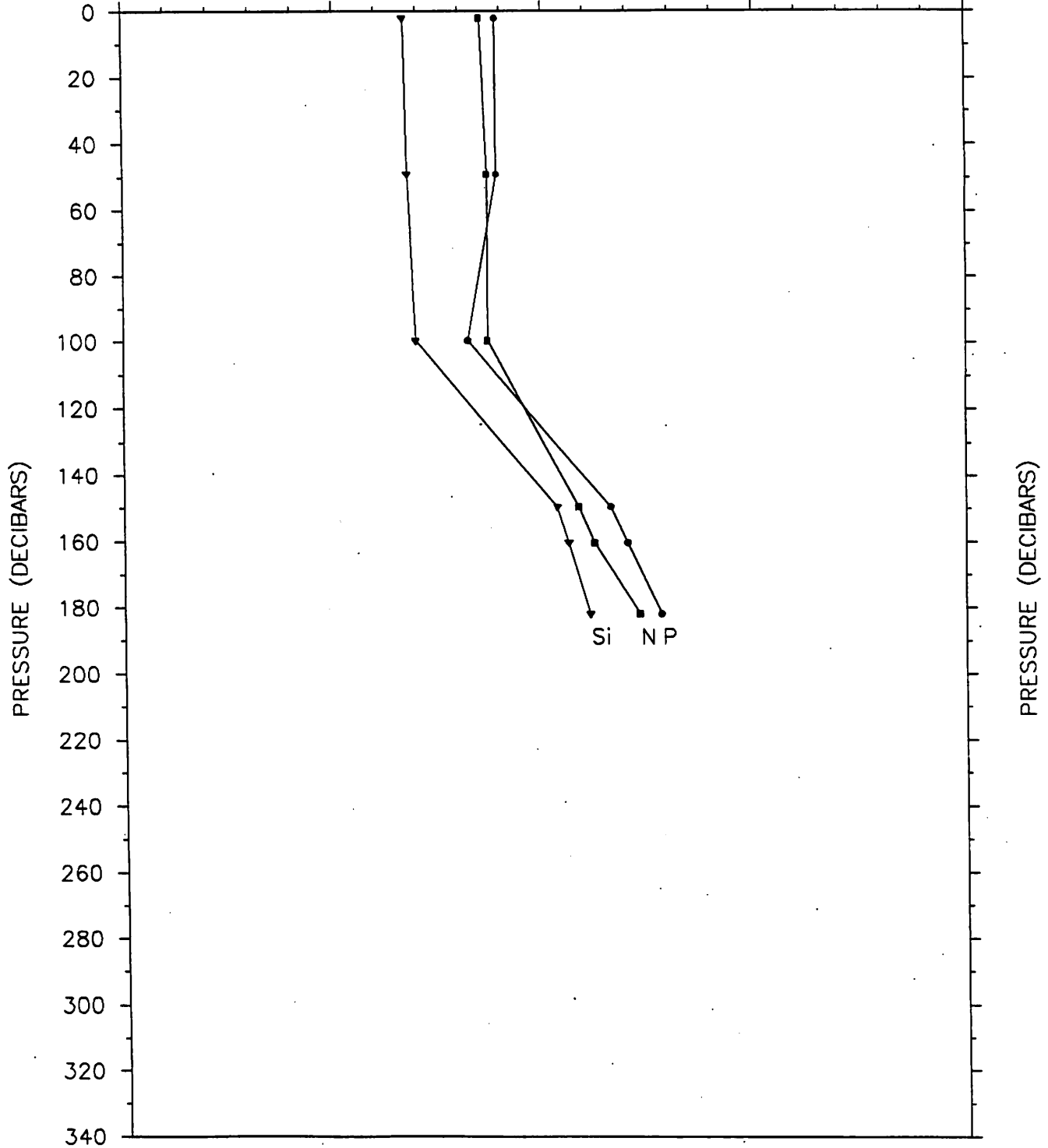
0 5 10 15 20 25 30

NO3 + NO2 (μM)

0 5 10 15 20 25

PO4 (μM)

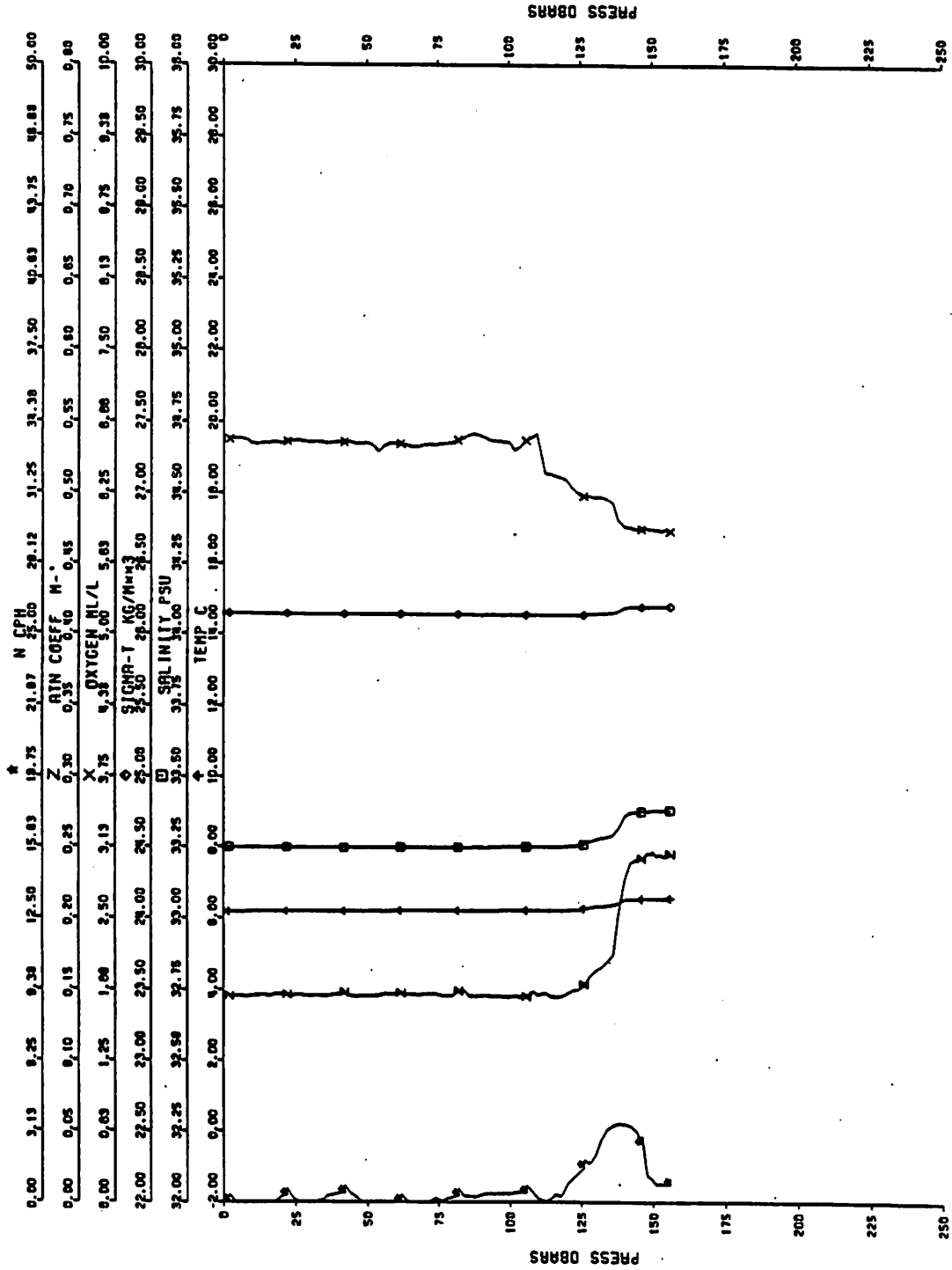
0.0 0.5 1.0 1.5 2.0

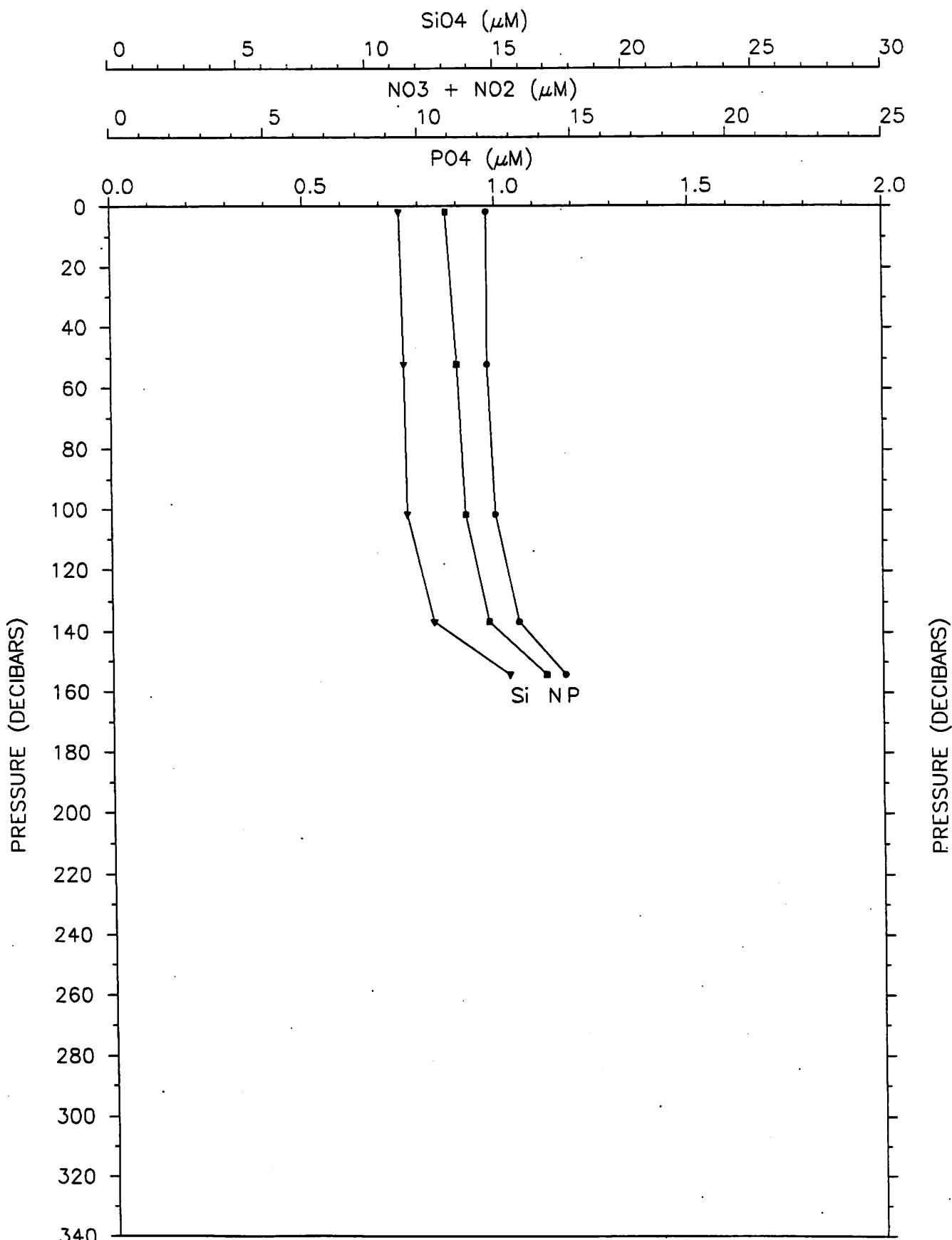


CRUISE: OC181
6 FEB 87
09: 15: 00 GMT

STATION: 12
42 03.00 N
68 23.00 W

0C181B CAST #13

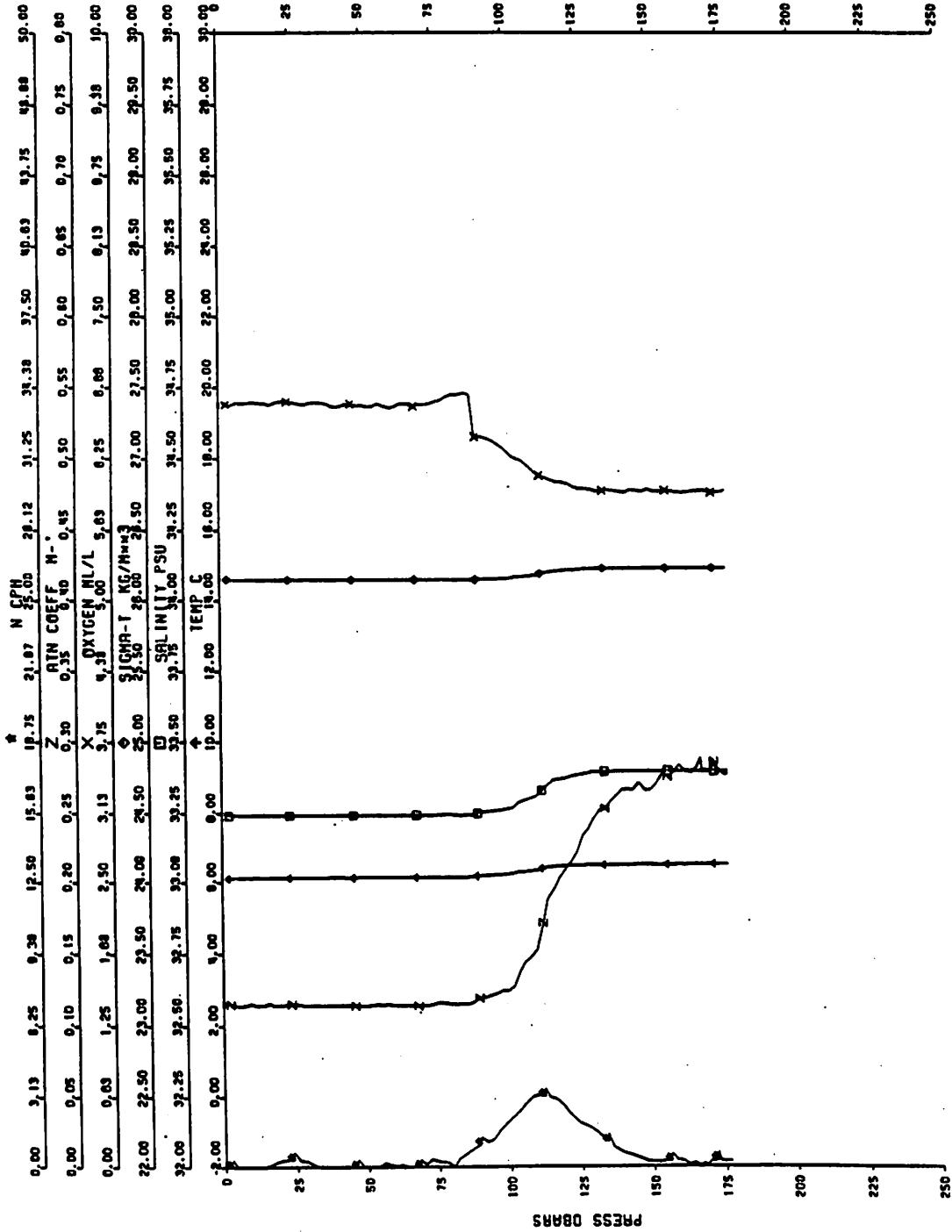




CRUISE: OC181
 6 FEB 87
 11: 00: 00 GMT

STATION: 13
 42 11.51 N
 68 29.04 W

0C181B CAST #14



SiO4 (μM)

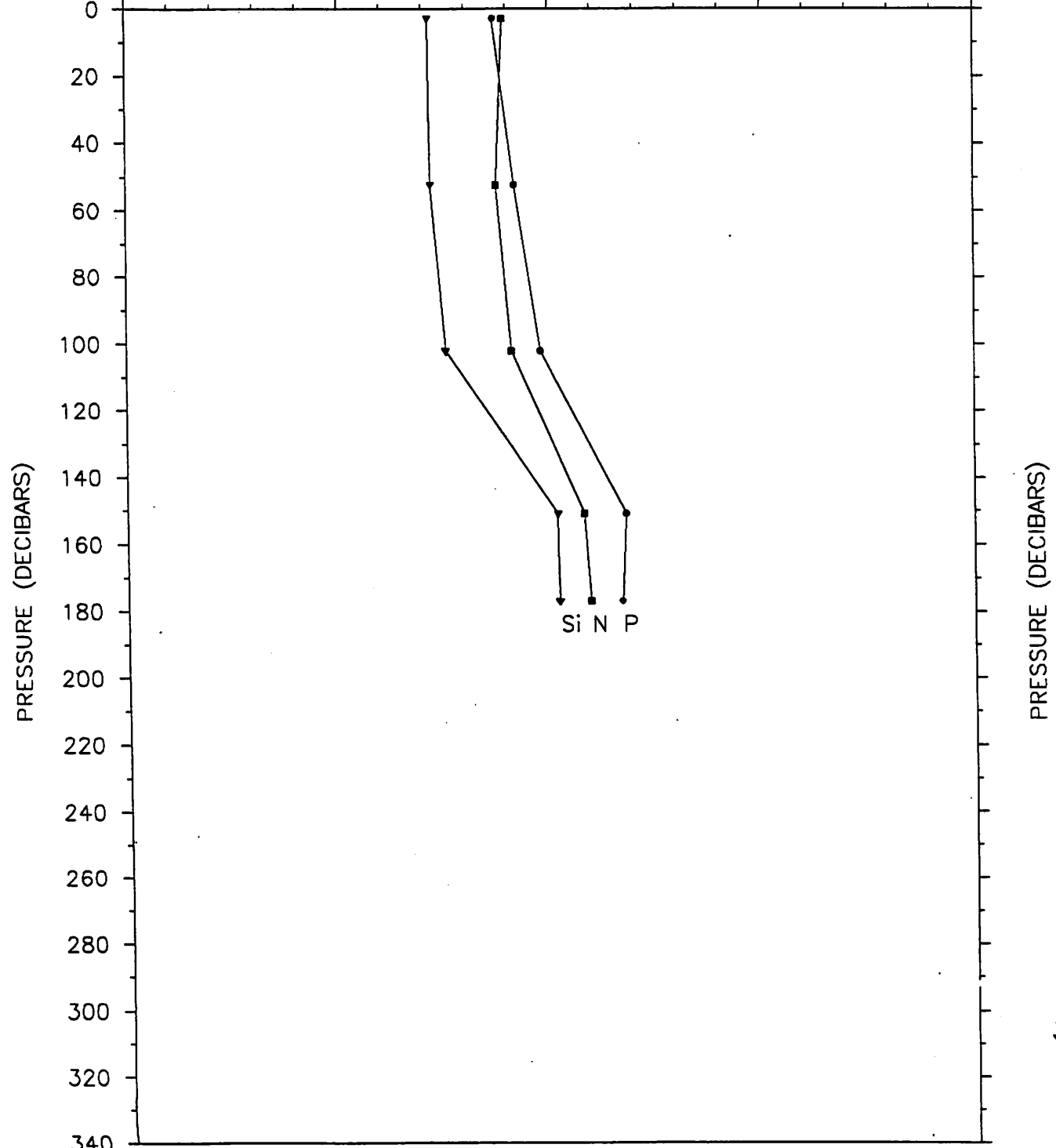
0 5 10 15 20 25 30

NO3 + NO2 (μM)

0 5 10 15 20 25

PO4 (μM)

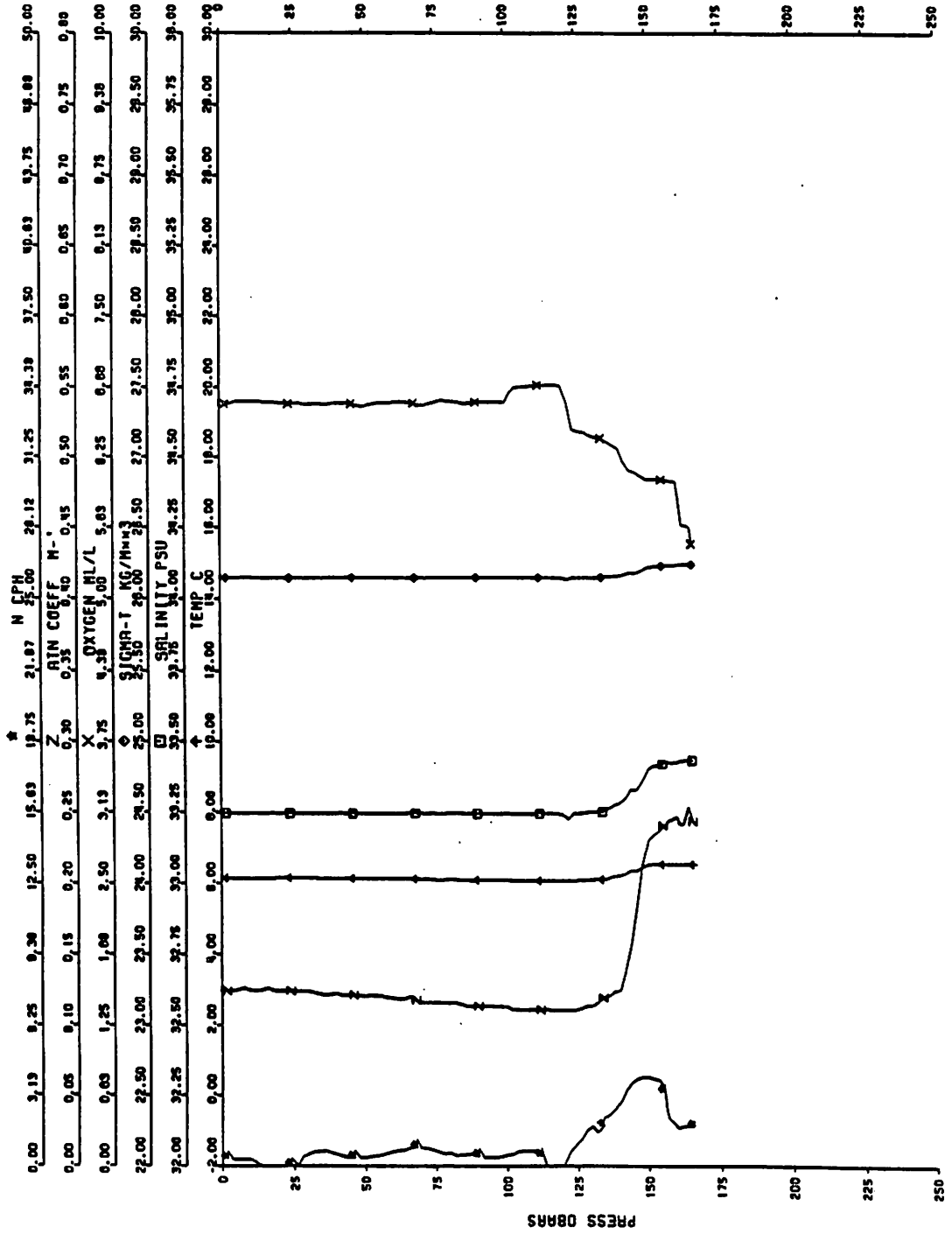
0.0 0.5 1.0 1.5 2.0

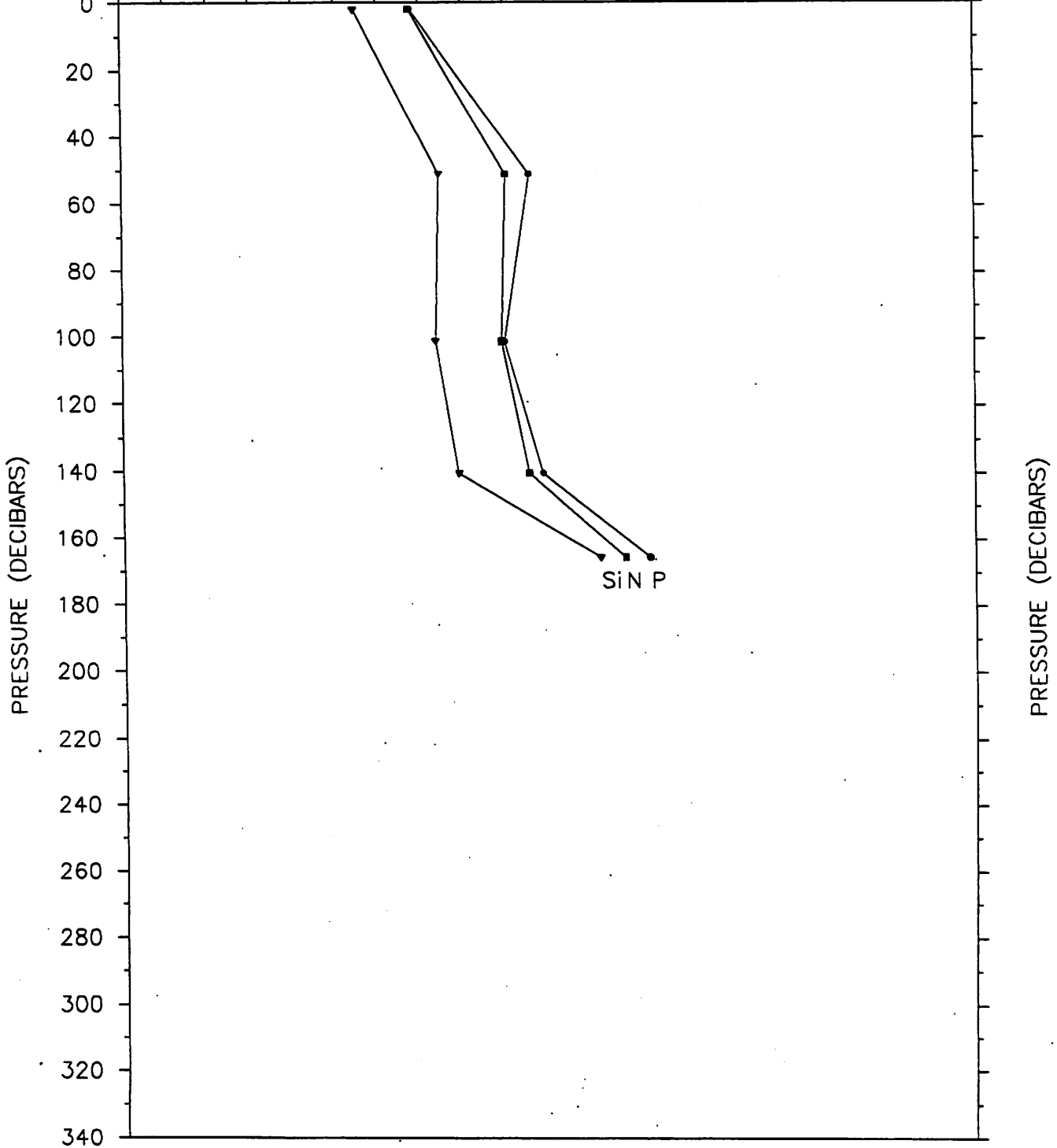
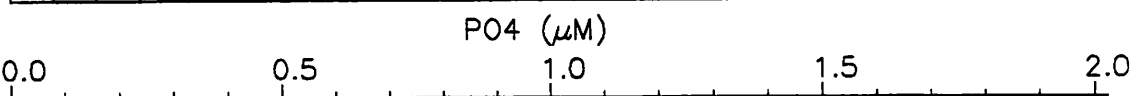
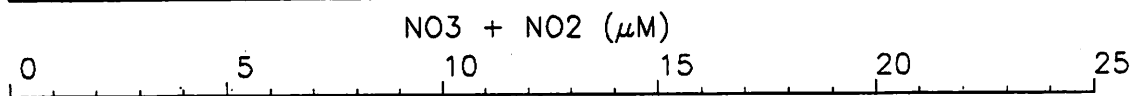
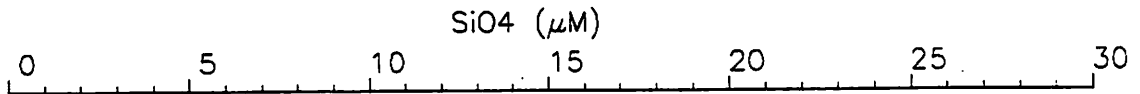


CRUISE: OC181
6 FEB 87
12: 22: 30 GMT

STATION: 14
42 16.98 N
68 32.03 W

0C181B CAST #15

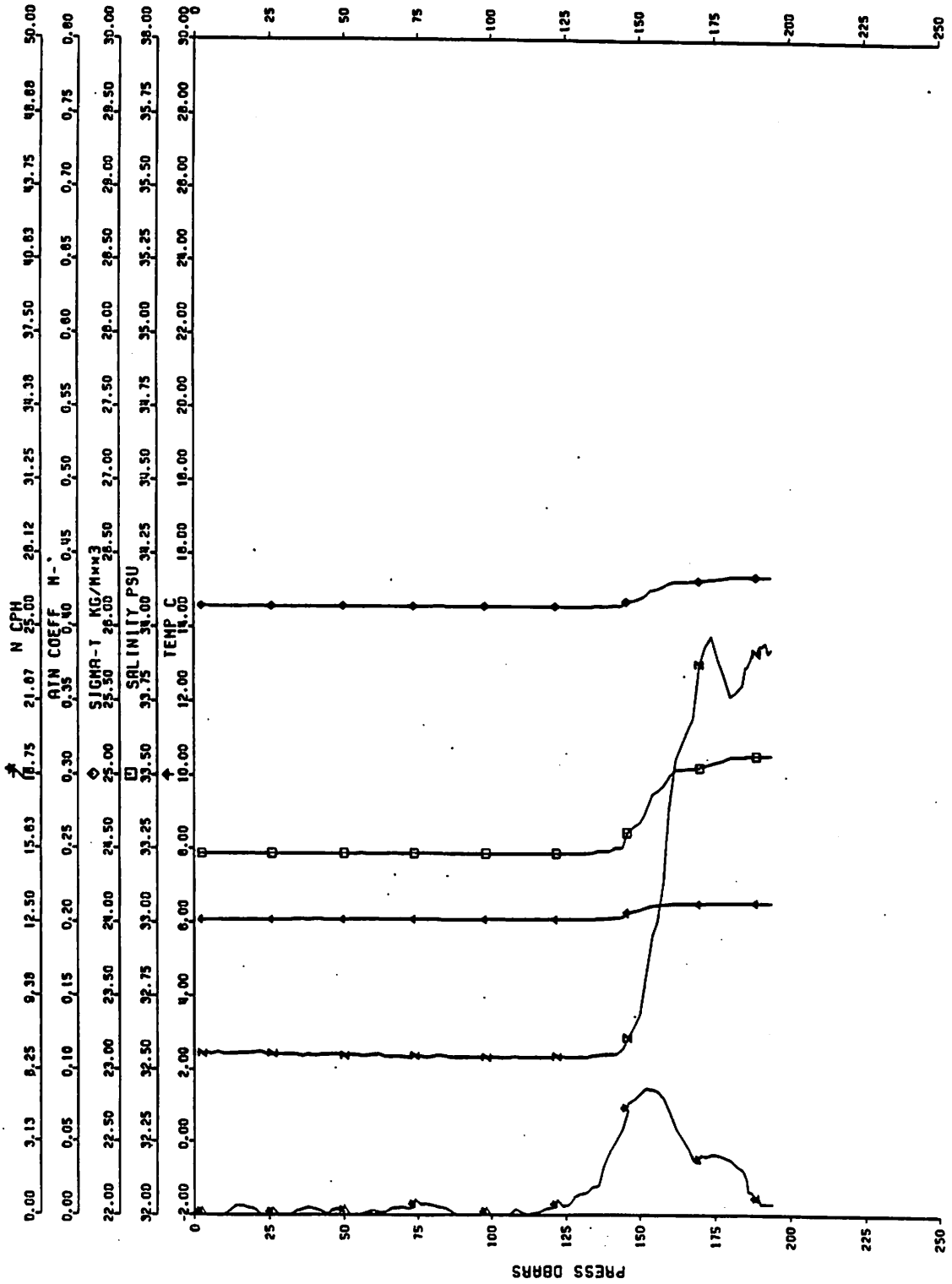


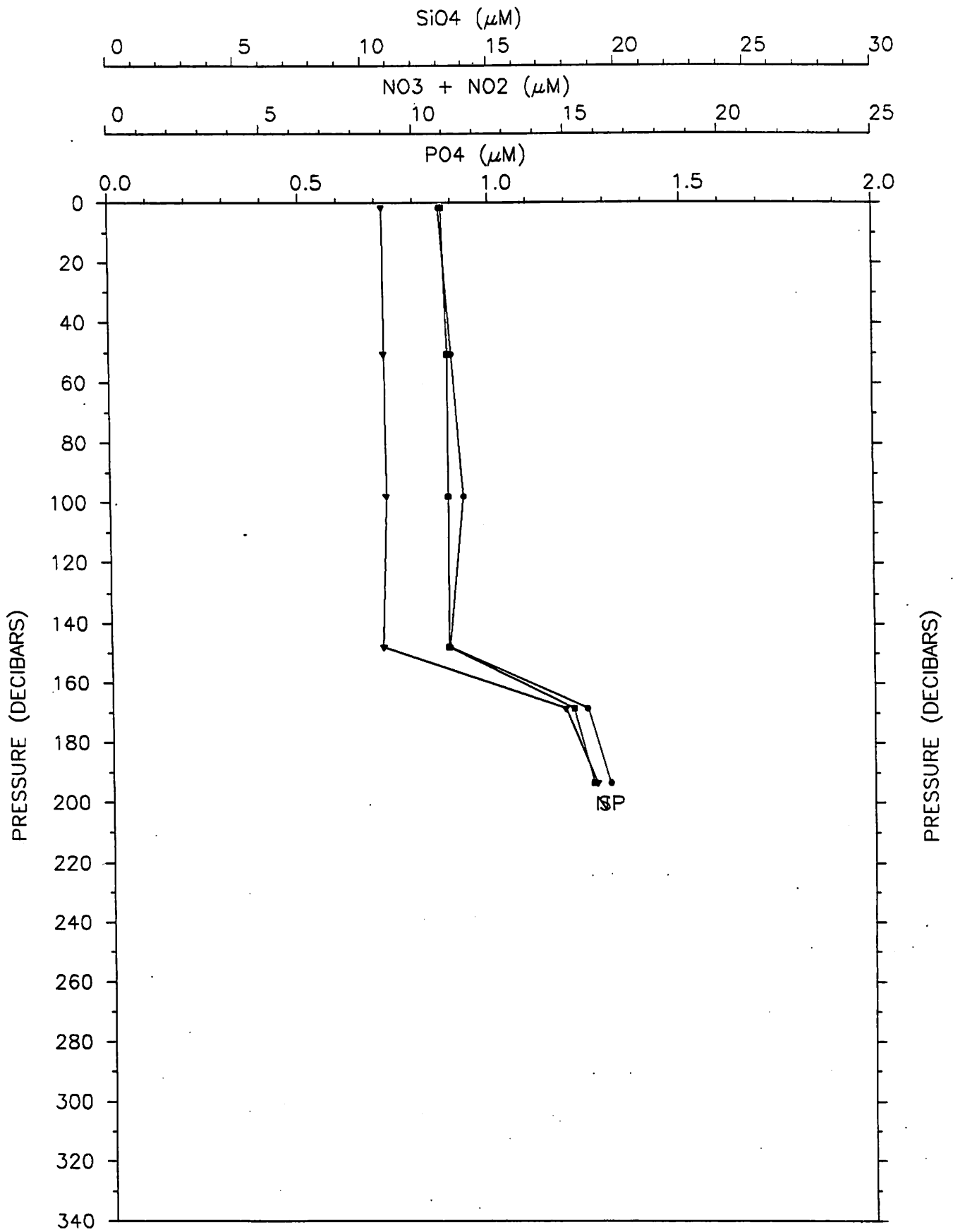


CRUISE: OC181
6 FEB 87
13: 15: 00 GMT

STATION: 15
42 20.49 N
68 34.57 W

0C181A CAST #16



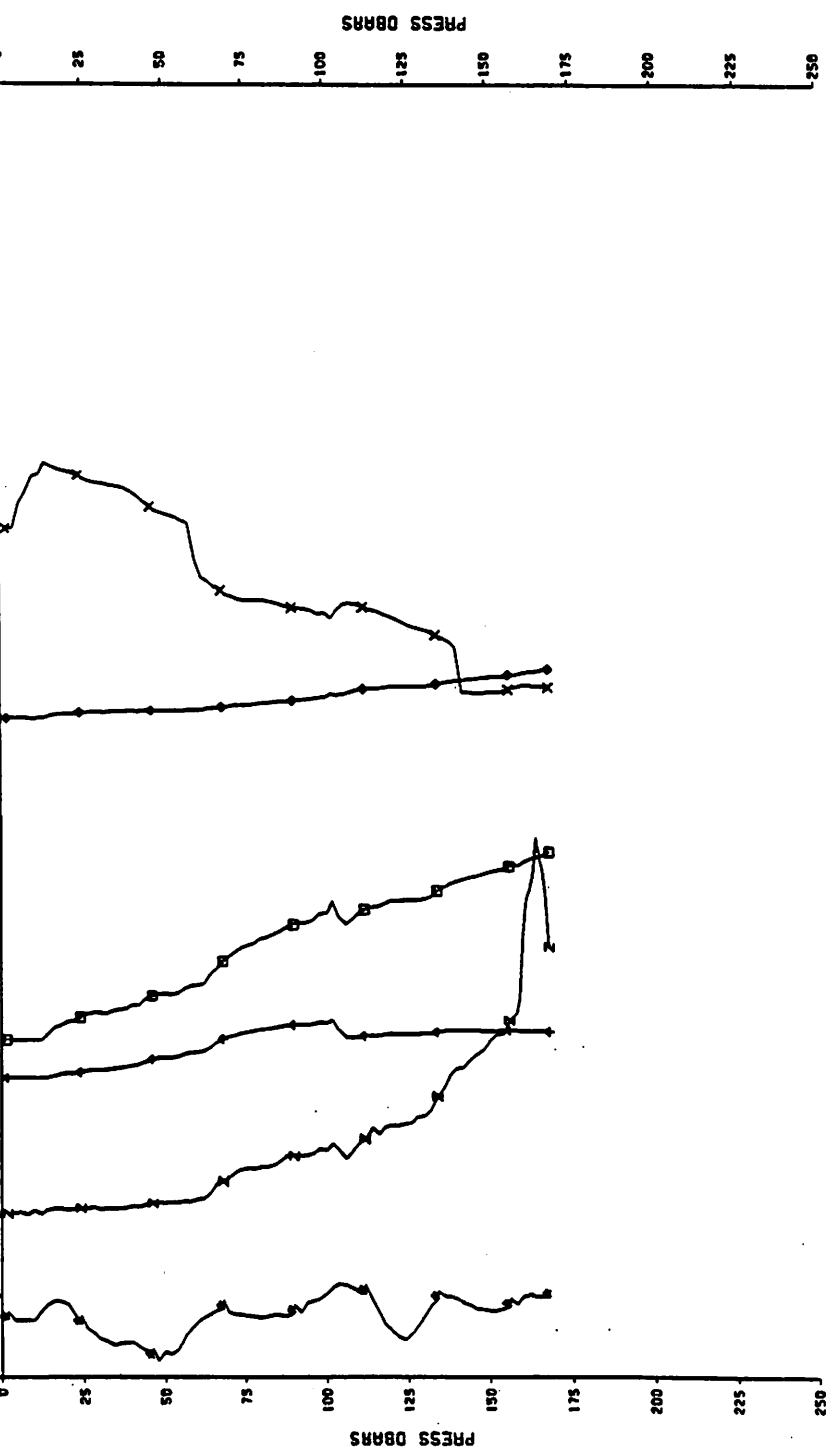


CRUISE: OC181
 6 FEB 87
 14: 15: 00 GMT

STATION: 16
 42 25.02 N
 68 37.59 W

0C181A CAST #17

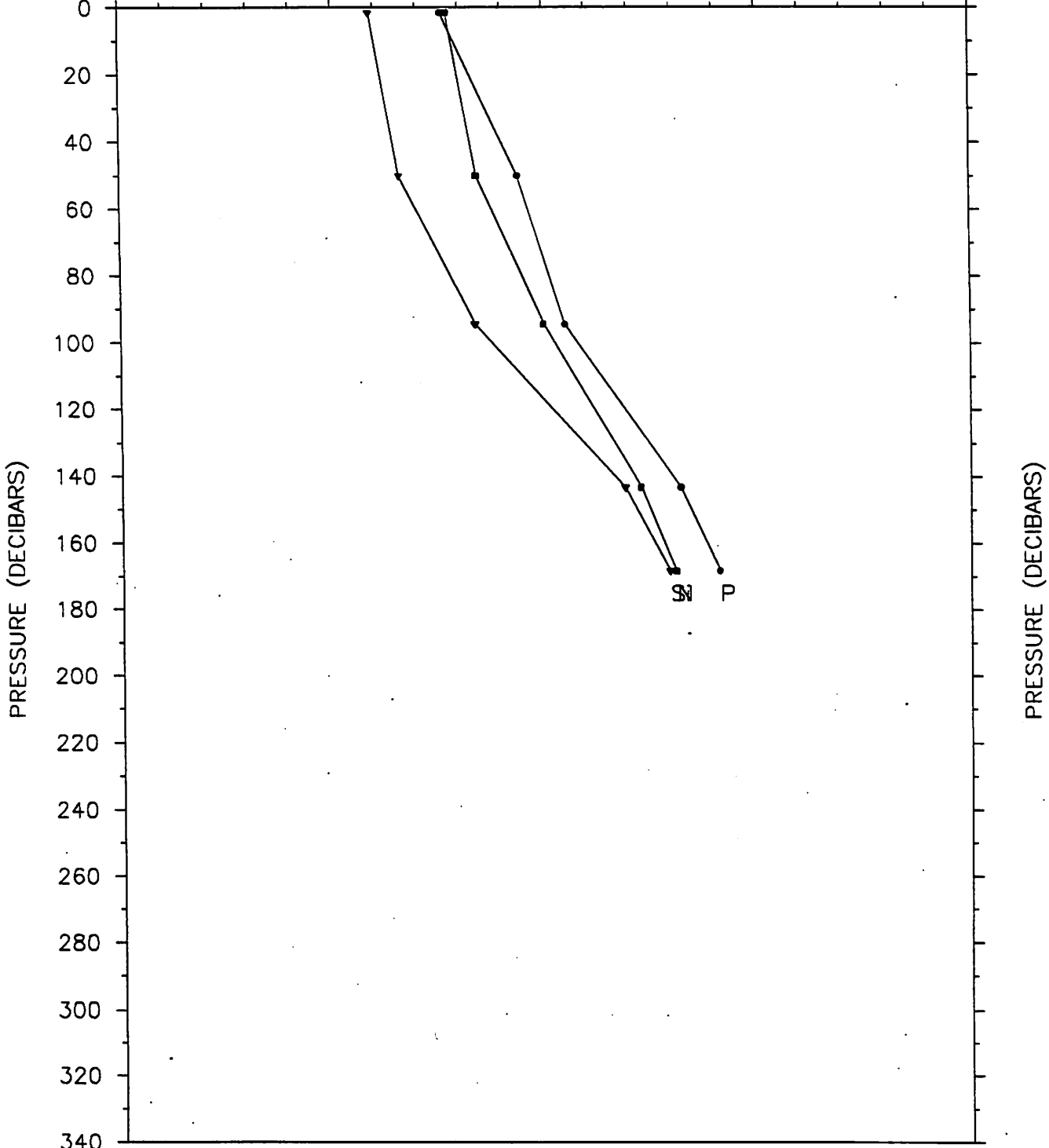
| | | | | | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0.00 | 3.13 | 0.25 | 0.30 | 12.50 | 15.00 | 18.75 | 21.07 | 21.00 | 20.12 | 31.25 | 34.30 | 37.50 | 40.00 | 42.75 | 46.00 | 50.00 |
| | | | | | | | M | M | M | M | M | M | M | M | M | M |
| 0.00 | 0.05 | 0.10 | 0.15 | 0.20 | 0.25 | 0.30 | 0.35 | 0.40 | 0.45 | 0.50 | 0.55 | 0.60 | 0.65 | 0.70 | 0.75 | 0.80 |
| | | | | | | | Z | Z | Z | Z | Z | Z | Z | Z | Z | Z |
| 0.00 | 0.03 | 1.25 | 1.00 | 2.50 | 3.13 | 3.75 | 4.38 | 5.00 | 5.63 | 6.25 | 6.88 | 7.50 | 8.13 | 8.75 | 9.38 | 10.00 |
| | | | | | | | X | X | X | X | X | X | X | X | X | X |
| 22.50 | 23.00 | 23.50 | 24.00 | 24.50 | 25.00 | 25.50 | 26.00 | 26.50 | 27.00 | 27.50 | 28.00 | 28.50 | 29.00 | 29.50 | 30.00 | 30.50 |
| | | | | | | | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y |
| 32.00 | 32.25 | 32.50 | 32.75 | 33.00 | 33.25 | 33.50 | 33.75 | 34.00 | 34.25 | 34.50 | 34.75 | 35.00 | 35.25 | 35.50 | 35.75 | 36.00 |
| | | | | | | | Q | Q | Q | Q | Q | Q | Q | Q | Q | Q |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | | | | | U | U | U | U | U | U | U | U | U | U |



SiO4 (μM)
0 5 10 15 20 25 30

NO3 + NO2 (μM)
0 5 10 15 20 25

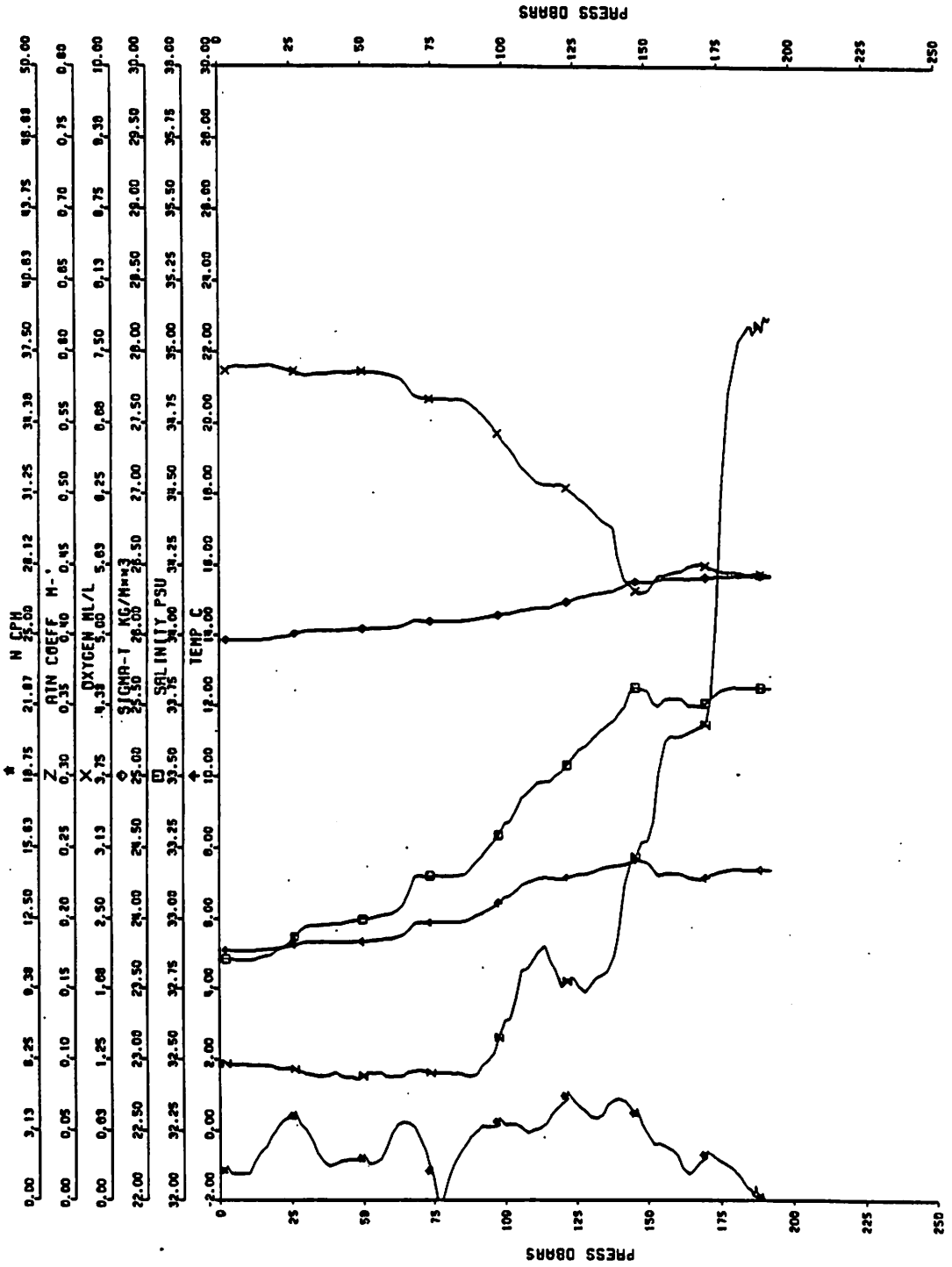
PO4 (μM)
0.0 0.5 1.0 1.5 2.0



CRUISE: OC181
6 FEB 87
15: 07: 30 GMT

STATION: 17
42 29.57 N
68 41.22 W

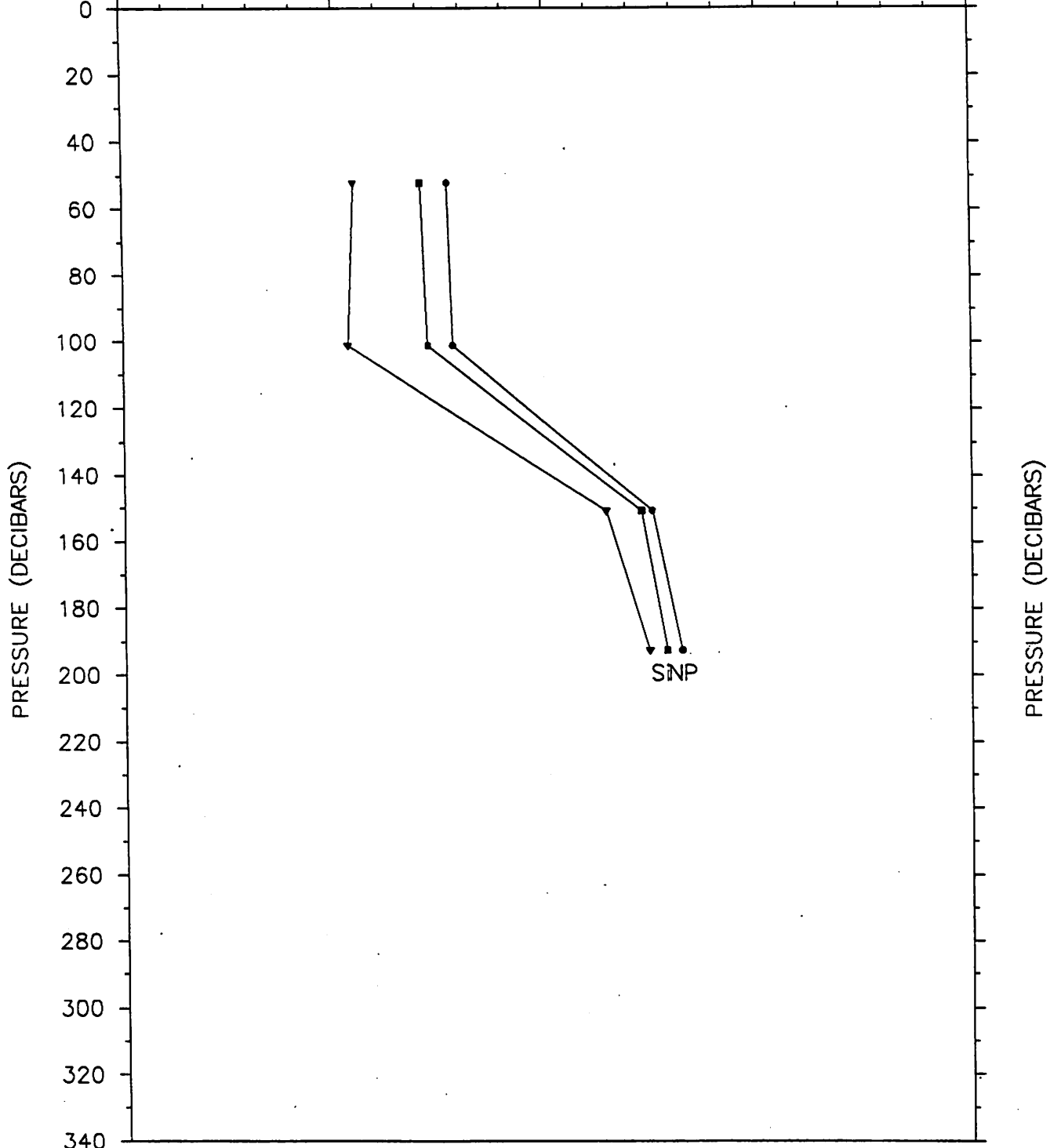
0C181A CAST #18



SiO4 (μM)
0 5 10 15 20 25 30

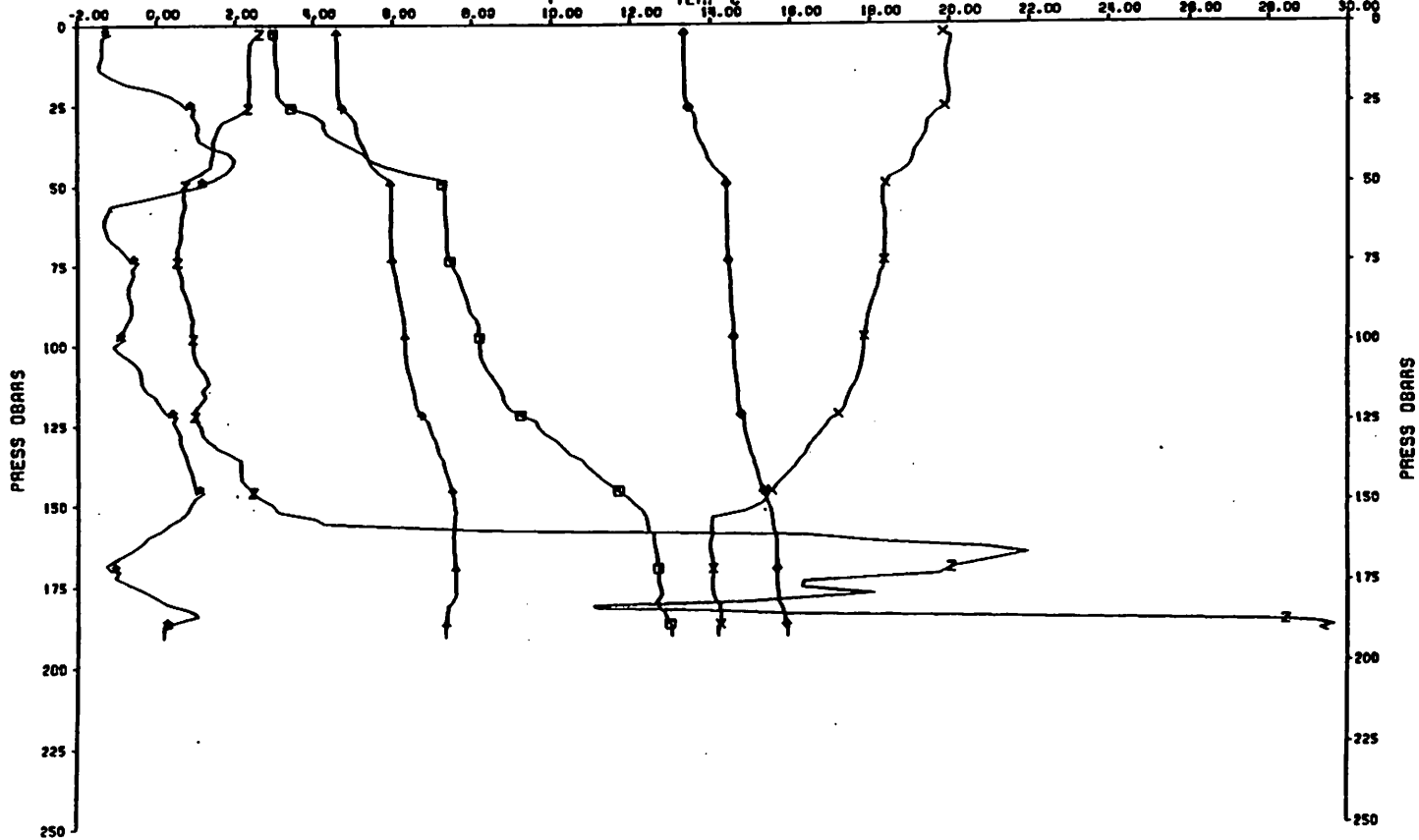
NO3 + NO2 (μM)
0 5 10 15 20 25

PO4 (μM)
0.0 0.5 1.0 1.5 2.0



0C181B CAST #19

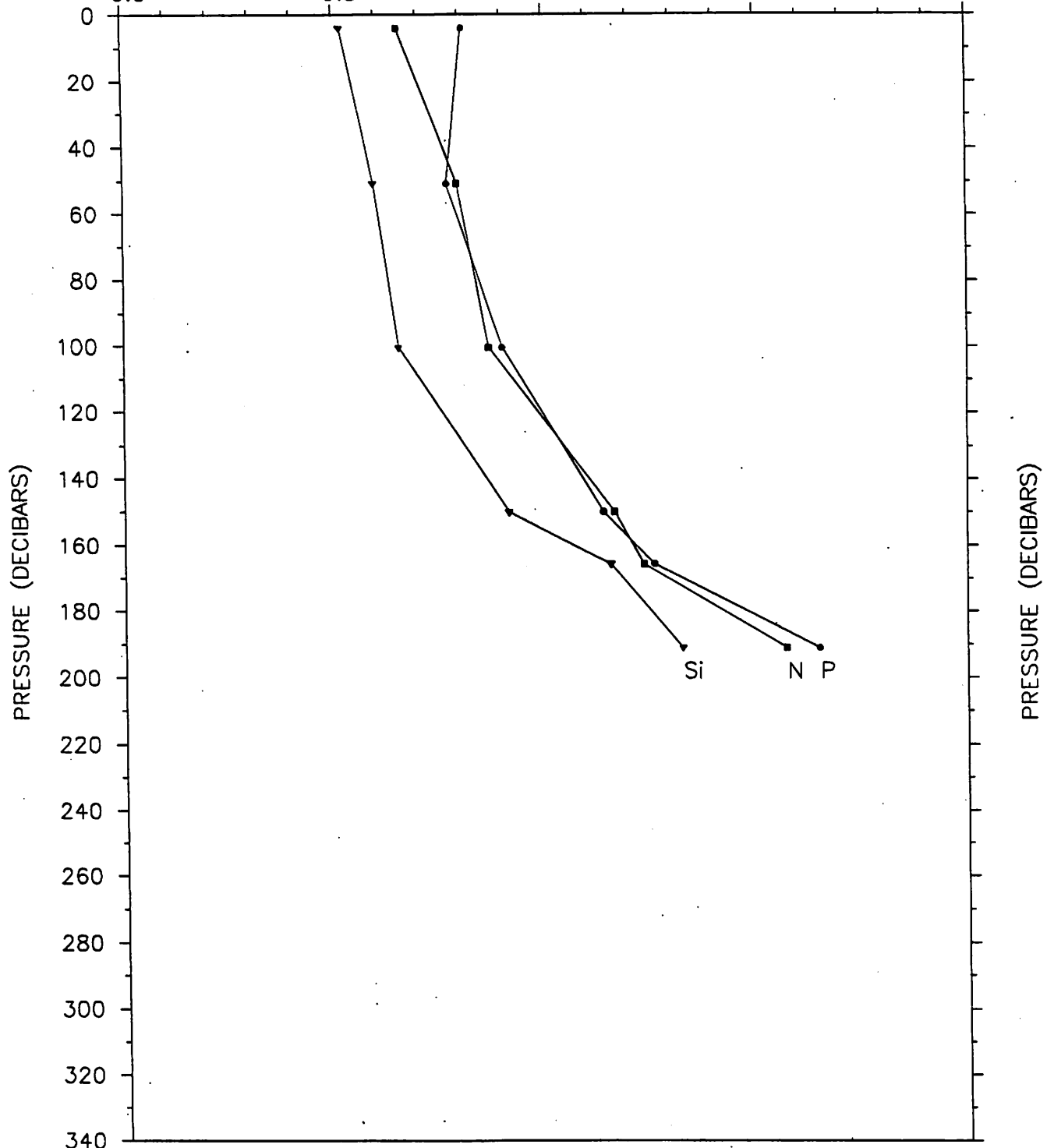
| | | | | | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0.00 | 3.13 | 6.25 | 9.38 | 12.50 | 15.63 | 18.75 | 21.87 | 25.00 | 28.12 | 31.25 | 34.38 | 37.50 | 40.63 | 43.75 | 46.88 | 50.00 |
| 0.00 | 0.05 | 0.10 | 0.15 | 0.20 | 0.25 | 0.30 | 0.35 | 0.40 | 0.45 | 0.50 | 0.55 | 0.60 | 0.65 | 0.70 | 0.75 | 0.80 |
| 0.00 | 0.63 | 1.25 | 1.88 | 2.50 | 3.13 | 3.75 | 4.38 | 5.00 | 5.63 | 6.25 | 6.88 | 7.50 | 8.13 | 8.75 | 9.38 | 10.00 |
| 22.00 | 22.50 | 23.00 | 23.50 | 24.00 | 24.50 | 25.00 | 25.50 | 26.00 | 26.50 | 27.00 | 27.50 | 28.00 | 28.50 | 29.00 | 29.50 | 30.00 |
| 32.00 | 32.25 | 32.50 | 32.75 | 33.00 | 33.25 | 33.50 | 33.75 | 34.00 | 34.25 | 34.50 | 34.75 | 35.00 | 35.25 | 35.50 | 35.75 | 36.00 |
| 0.00 | 0.00 | 2.00 | 4.00 | 6.00 | 8.00 | 10.00 | 12.00 | 14.00 | 16.00 | 18.00 | 19.00 | 20.00 | 22.00 | 24.00 | 26.00 | 28.00 |



SiO4 (μM)
0 5 10 15 20 25 30

NO3 + NO2 (μM)
0 5 10 15 20 25

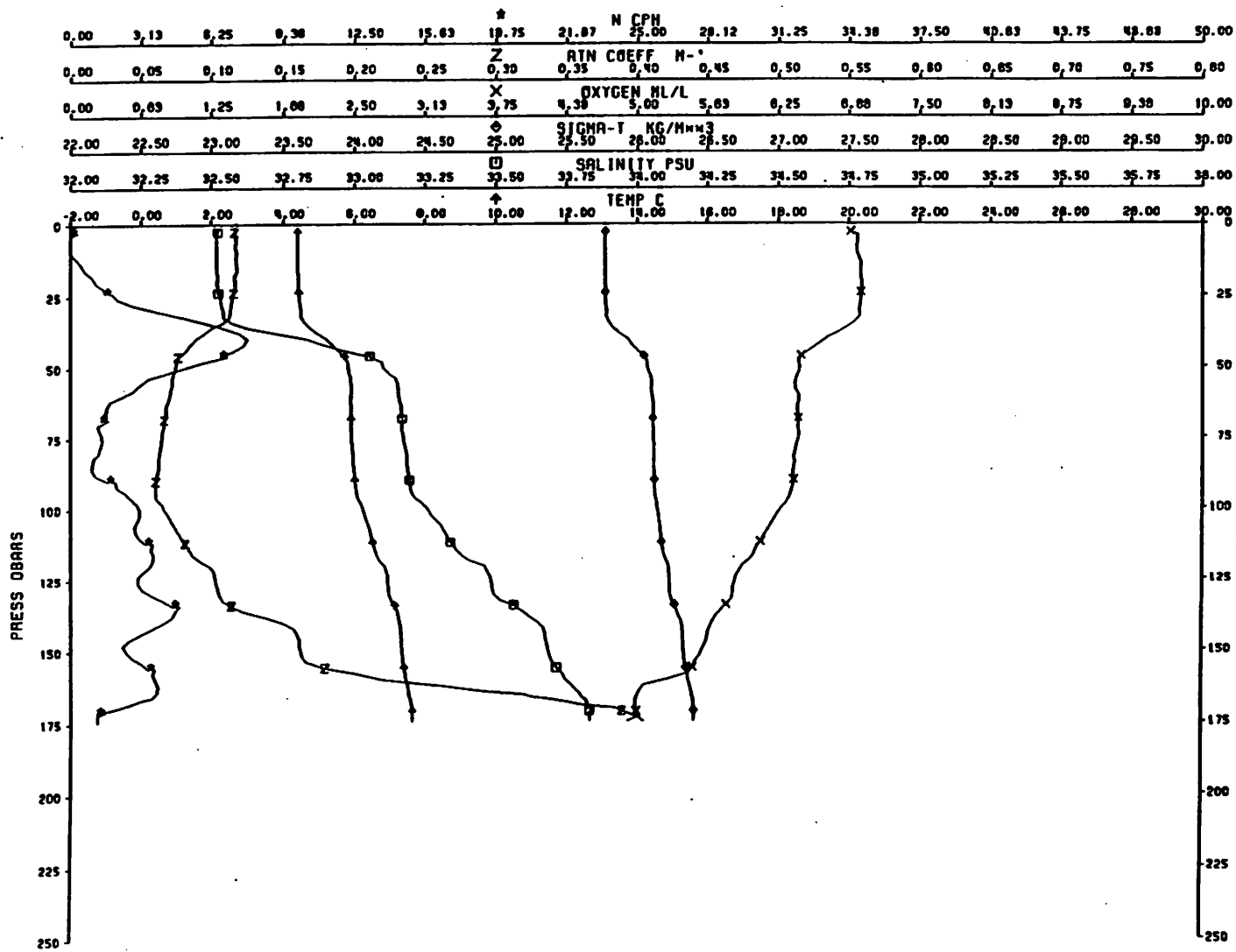
PO4 (μM)
0.0 0.5 1.0 1.5 2.0



CRUISE: OC181
6 FEB 87
17: 52: 30 GMT

STATION: 19
42 34.98 N
68 44.54 W

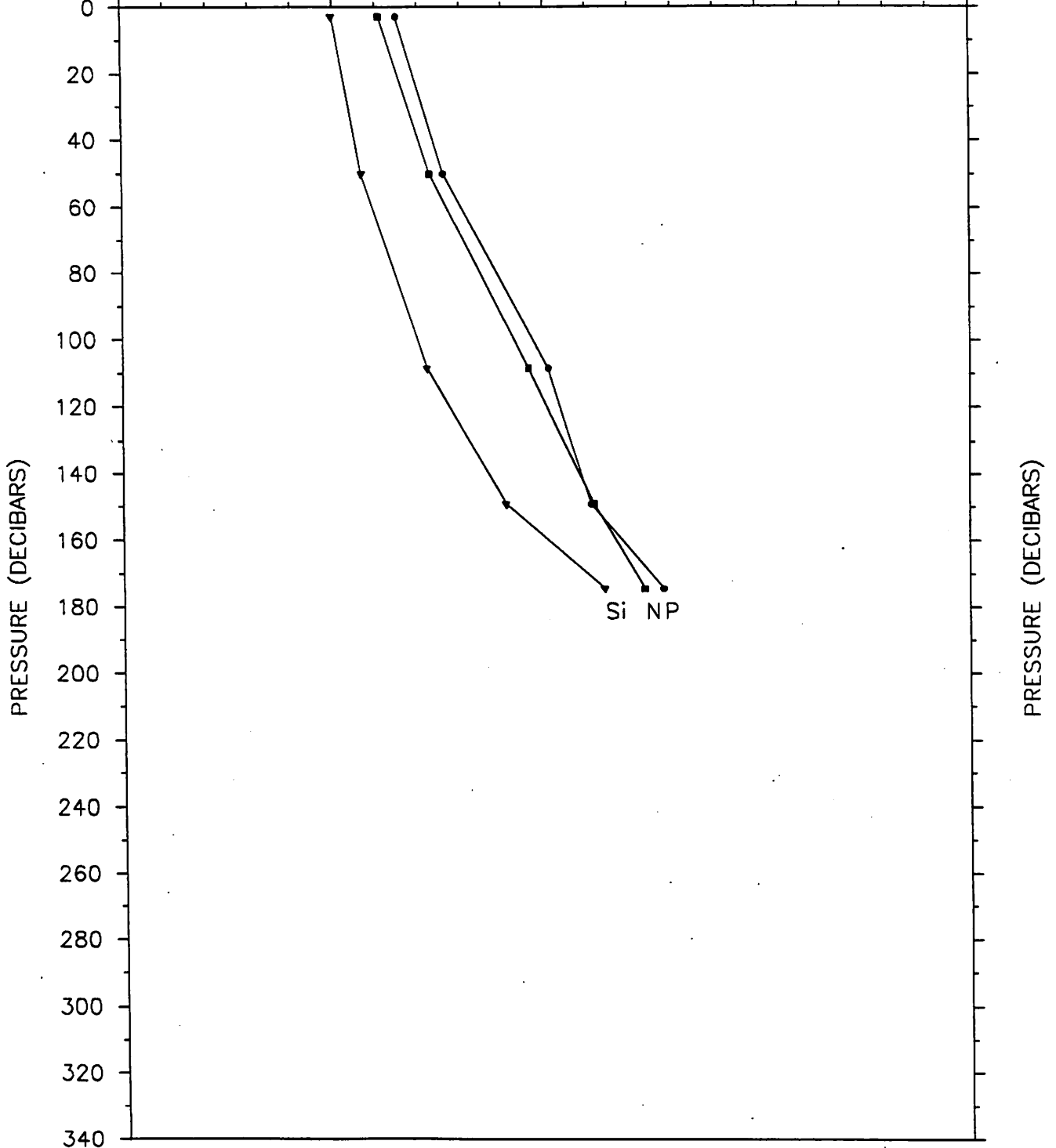
0C181A CAST #20



SiO₄ (μM)
0 5 10 15 20 25 30

NO₃ + NO₂ (μM)
0 5 10 15 20 25

PO₄ (μM)
0.0 0.5 1.0 1.5 2.0

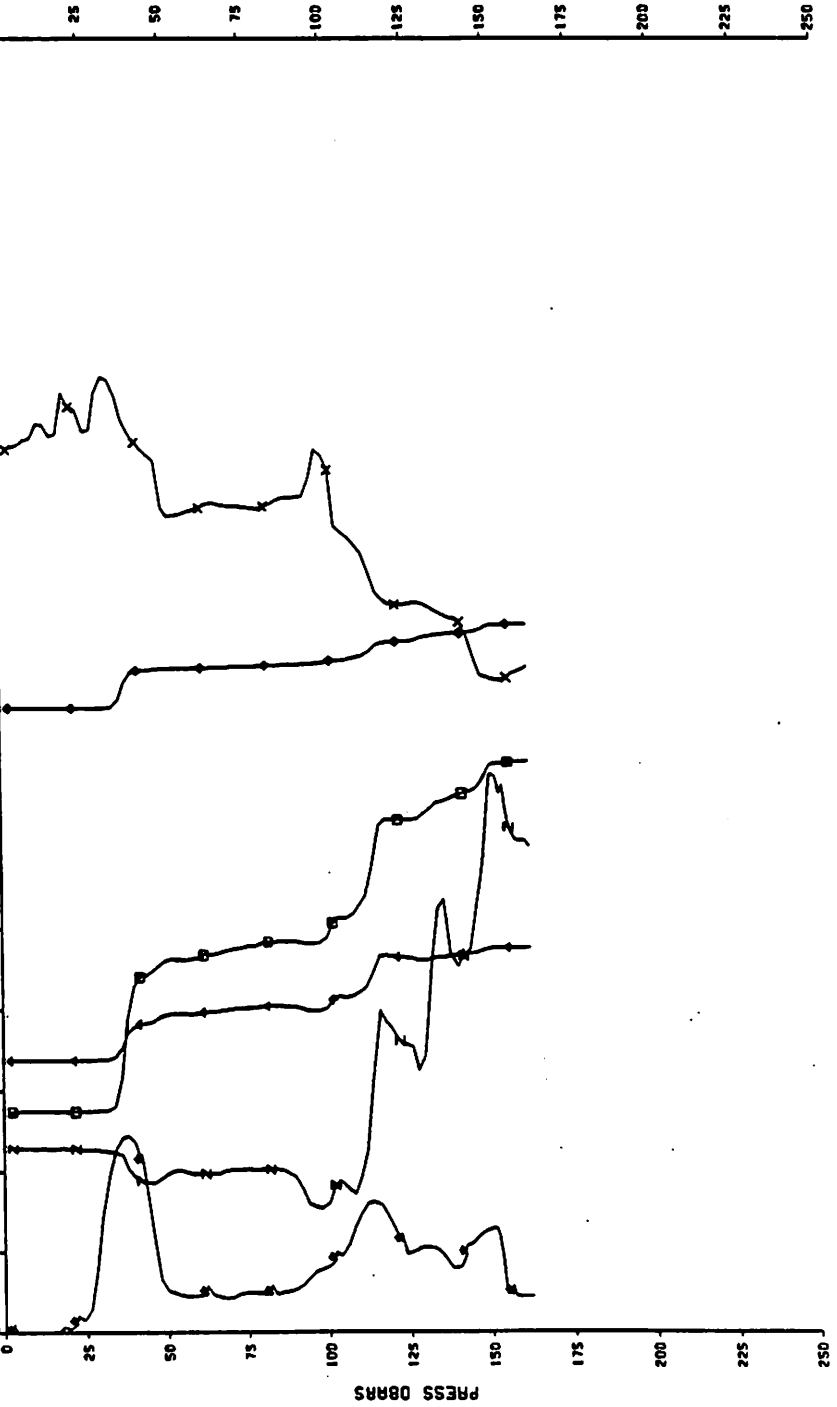


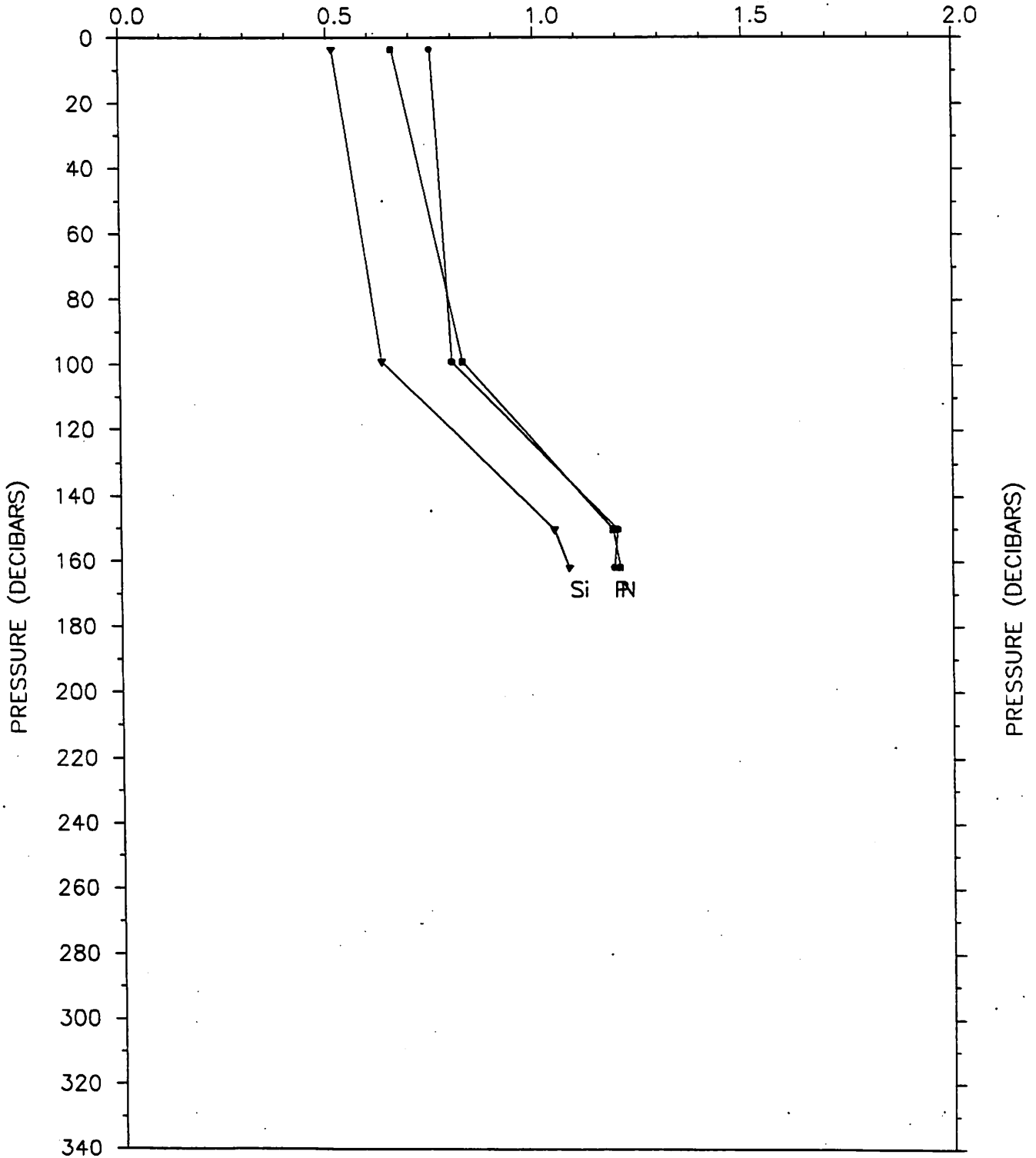
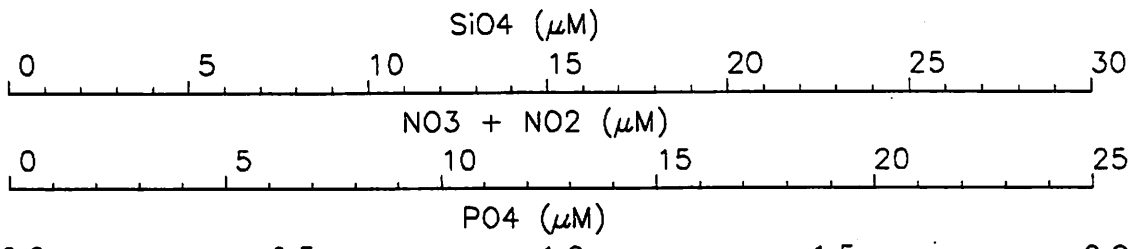
CRUISE: OC181
6 FEB 87
18: 45: 00 GMT

STATION: 20
42 37.98 N
68 45.54 W

0C181A CAST #21

| | | | | | | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0.00 | 3.13 | 9.25 | 9.38 | 12.50 | 15.63 | 18.75 | 21.87 | N CPH | 25.00 | 28.12 | 31.25 | 34.38 | 37.50 | 40.63 | 43.75 | 46.88 | 50.00 |
| 0.00 | 0.05 | 0.10 | 0.15 | 0.20 | 0.25 | 0.30 | 0.35 | 0.40 | M | 0.45 | 0.50 | 0.55 | 0.60 | 0.65 | 0.70 | 0.75 | 0.80 |
| 0.00 | 0.03 | 1.25 | 1.08 | 2.50 | 2.13 | 2.75 | 3.38 | 4.00 | OX YGEN ML/L | 5.63 | 6.25 | 6.88 | 7.50 | 8.13 | 8.75 | 9.38 | 10.00 |
| 22.00 | 22.50 | 23.00 | 23.50 | 24.00 | 24.50 | 25.00 | 25.50 | 26.00 | 26.50 | 27.00 | 27.50 | 28.00 | 28.50 | 29.00 | 29.50 | 30.00 | 30.50 |
| 32.00 | 32.25 | 32.50 | 32.75 | 33.00 | 33.25 | 33.50 | 33.75 | 34.00 | 34.25 | 34.50 | 34.75 | 35.00 | 35.25 | 35.50 | 35.75 | 36.00 | 36.25 |
| 0 | 2.00 | 4.00 | 6.00 | 8.00 | 10.00 | 12.00 | 14.00 | 16.00 | 18.00 | 20.00 | 22.00 | 24.00 | 26.00 | 28.00 | 30.00 | 32.00 | 34.00 |
| | | | | | | | | | TEMP C | | | | | | | | |



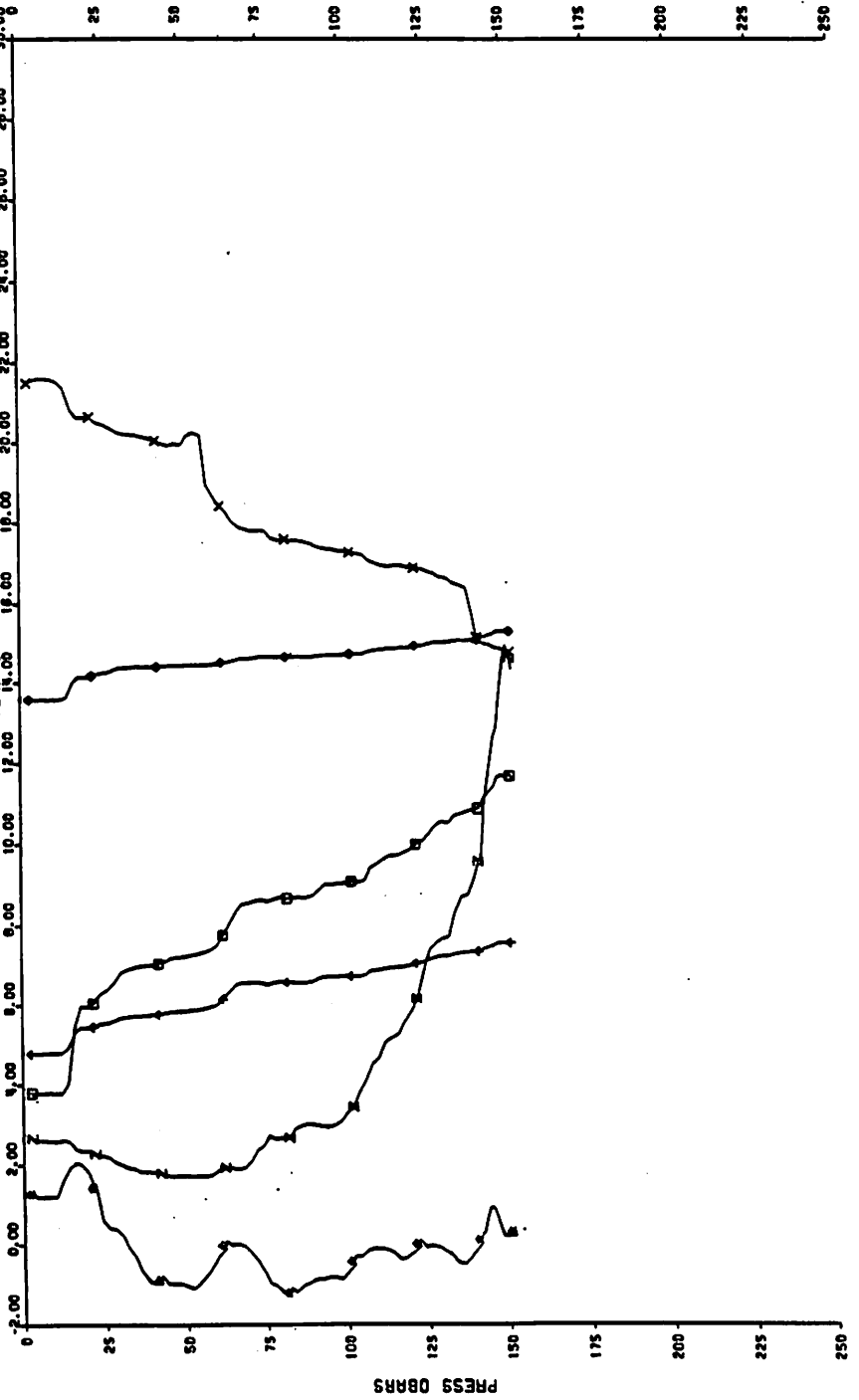


CRUISE: OC181
 6 FEB 87
 19: 30: 00 GMT

STATION: 21
 42 40.03 N
 68 47.94 W

0C181U CAST #22

| | | | | | | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0.00 | 3.13 | 0.25 | 0.30 | 12.50 | 15.03 | 18.75 | 21.07 | N | 25.00 | 28.12 | 31.25 | 34.38 | 37.50 | 40.63 | 43.75 | 46.88 | 50.00 |
| 0.00 | 0.05 | 0.10 | 0.15 | 0.20 | 0.25 | 0.30 | 0.35 | ATN | 0.40 | 0.45 | 0.50 | 0.55 | 0.60 | 0.65 | 0.70 | 0.75 | 0.80 |
| 0.00 | 0.09 | 1.25 | 1.08 | 2.50 | 3.13 | 3.75 | 4.38 | OXYGEN | 5.03 | 6.09 | 6.25 | 6.00 | 7.50 | 6.13 | 6.75 | 9.38 | 10.00 |
| 22.00 | 22.50 | 23.00 | 23.50 | 24.00 | 24.50 | 25.00 | 25.50 | SIGMA-T | 26.00 | 26.50 | 27.00 | 27.50 | 28.00 | 28.50 | 29.00 | 29.50 | 30.00 |
| 32.00 | 32.25 | 32.50 | 32.75 | 33.00 | 33.25 | 33.50 | 33.75 | SALINITY | 34.00 | 34.25 | 34.50 | 34.75 | 35.00 | 35.25 | 35.50 | 35.75 | 36.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 10.00 | 12.00 | TEMP | 14.00 | 16.00 | 18.00 | 20.00 | 22.00 | 24.00 | 26.00 | 28.00 | 30.00 |



SiO₄ (μM)

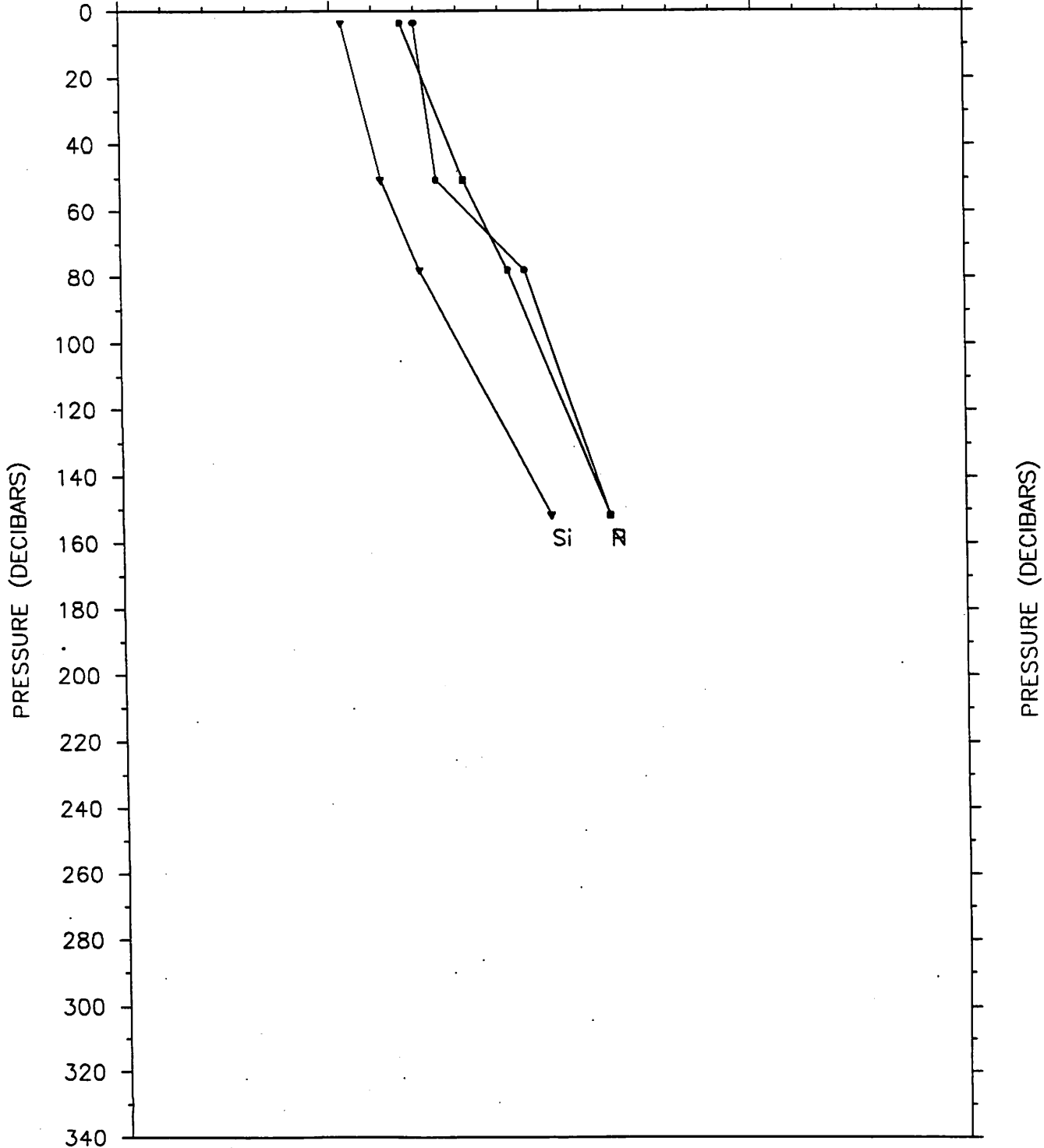
0 5 10 15 20 25 30

NO₃ + NO₂ (μM)

0 5 10 15 20 25

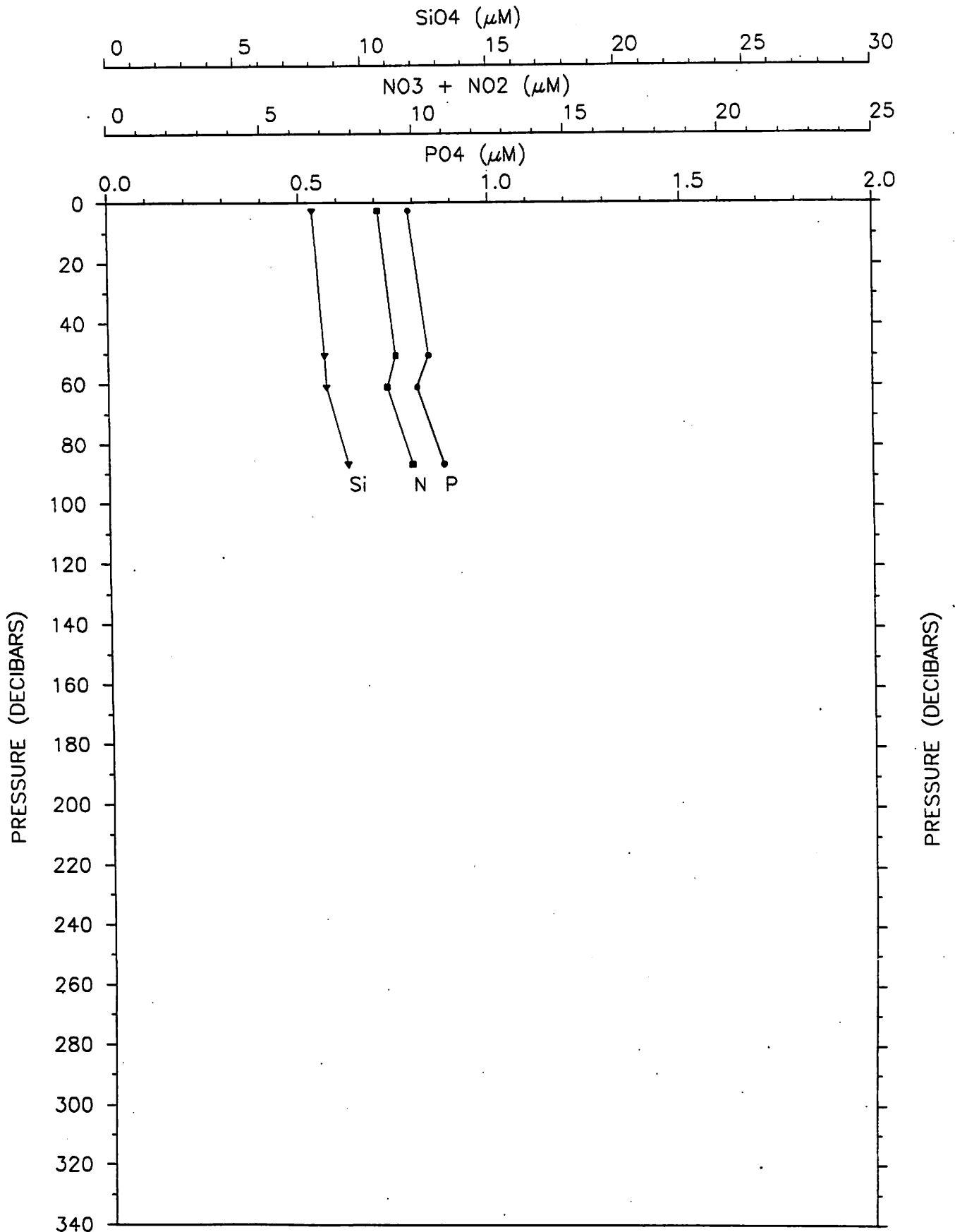
PO₄ (μM)

0.0 0.5 1.0 1.5 2.0



CRUISE: OC181
6 FEB 87
20: 30: 00 GMT

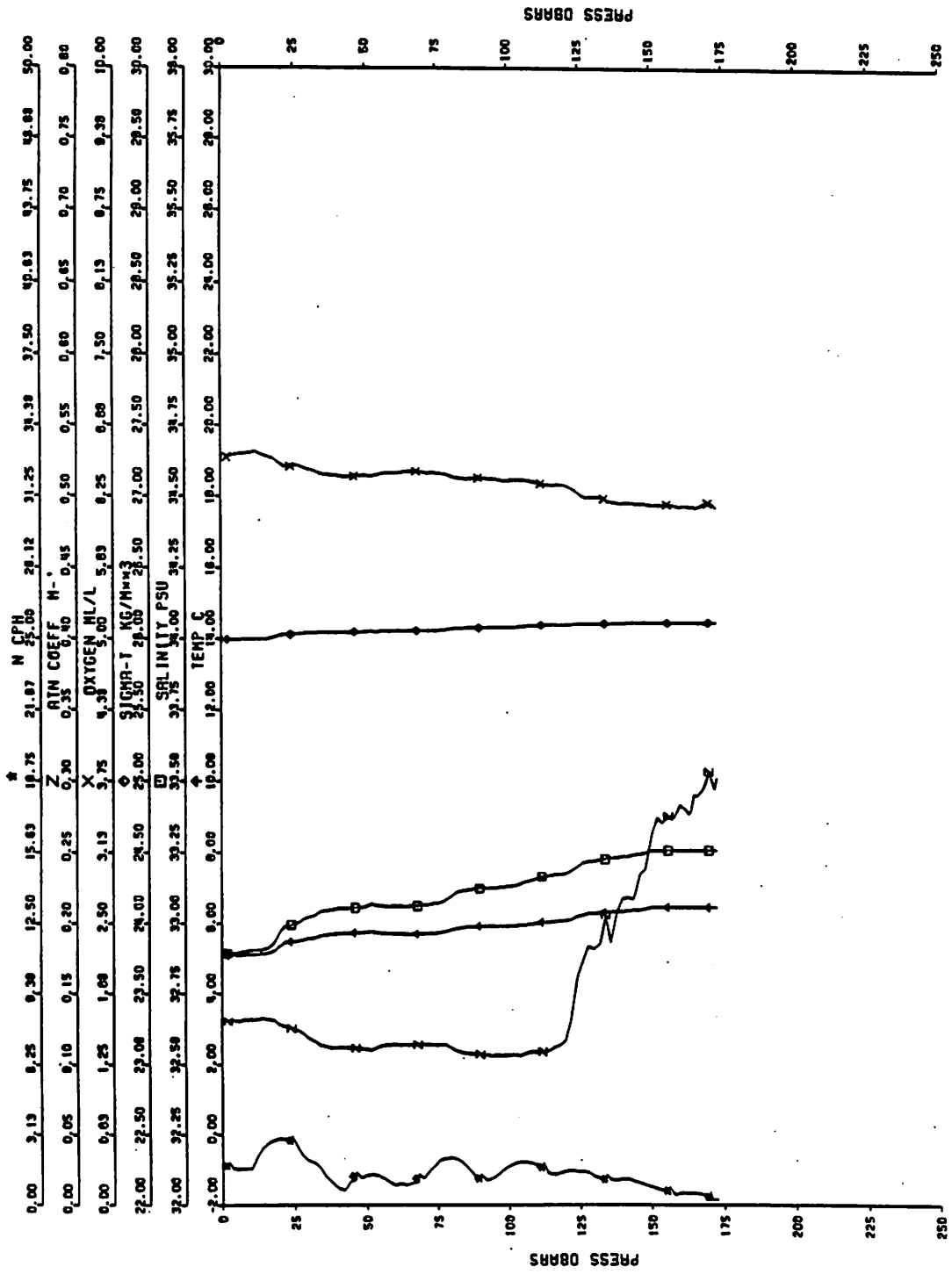
STATION: 22
42 45.59 N
68 51.54 W

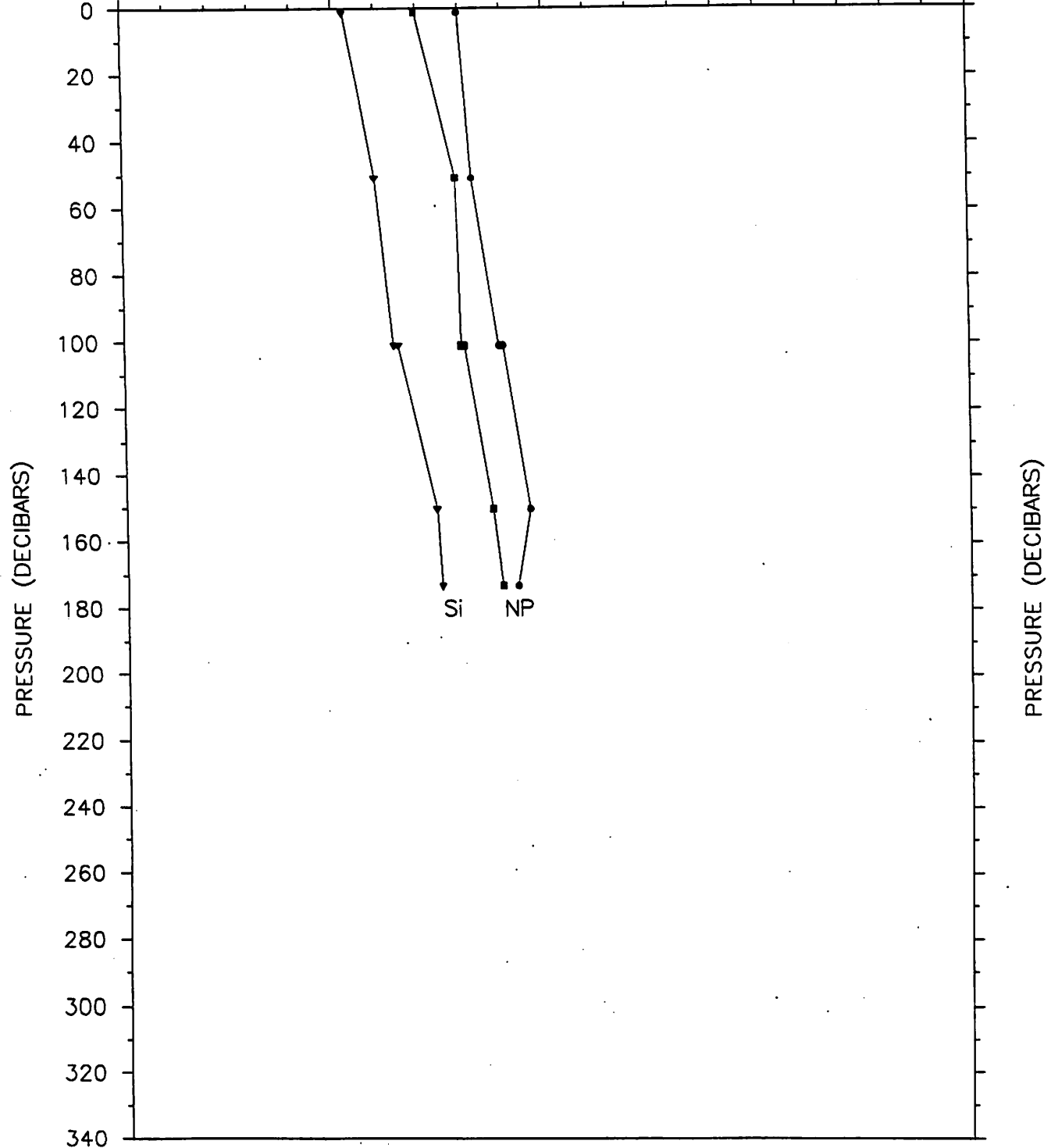
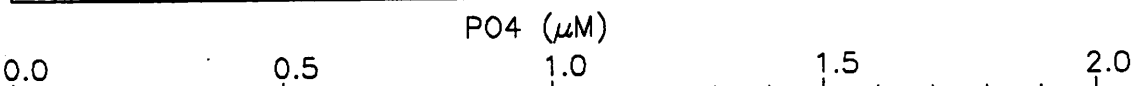
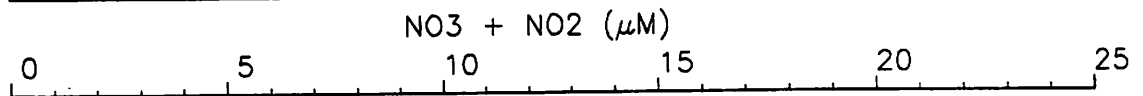
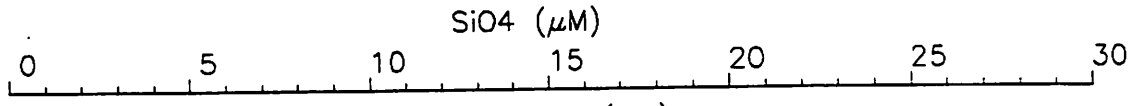


CRUISE: OC181
 6 FEB 87
 21: 52: 30 GMT

STATION: 23
 42 50.51 N
 68 56.00 W

0C181A CAST #24



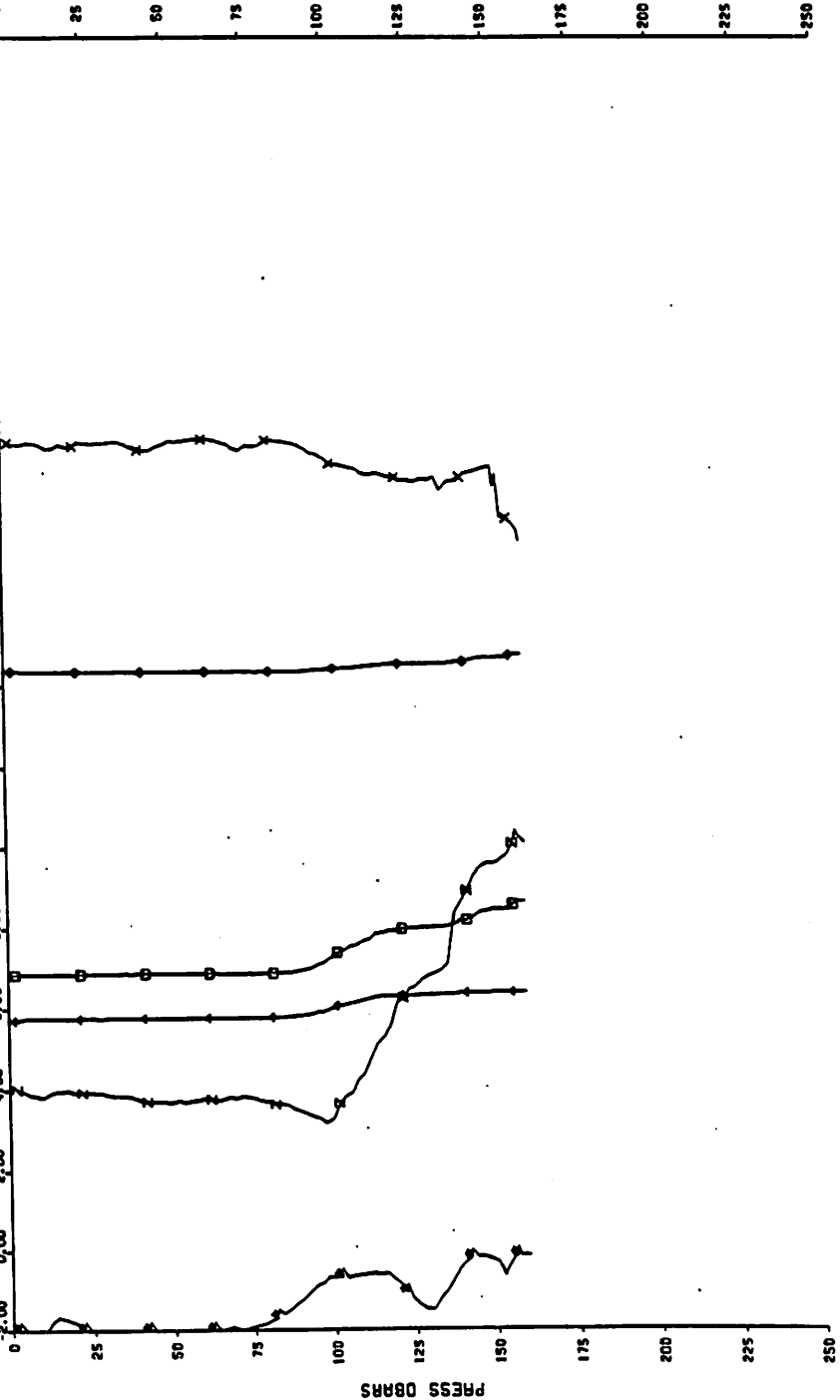


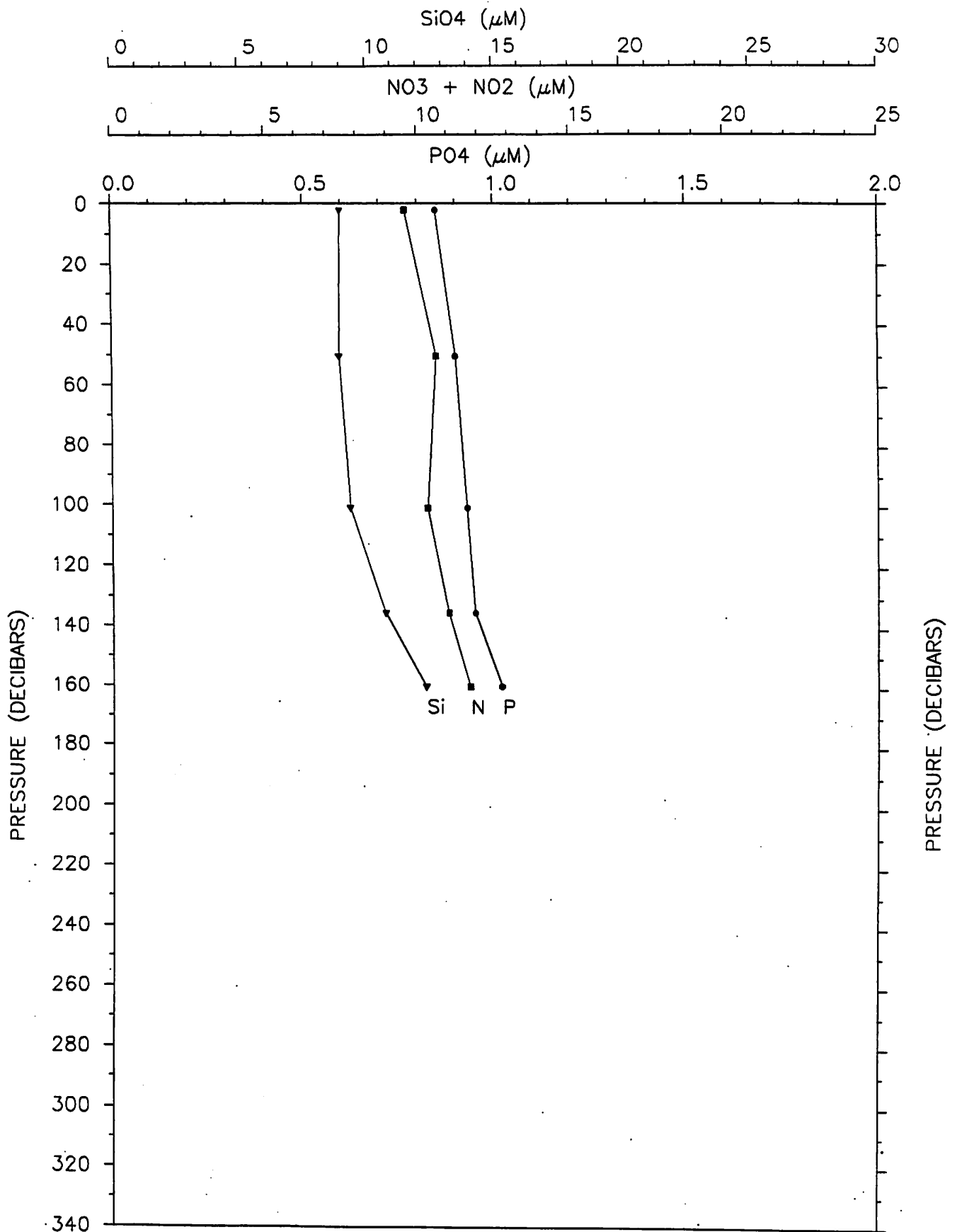
CRUISE: OC181
6 FEB 87
23: 15: 00 GMT

STATION: 24
42 46.98 N
69 05.15 W

0C181U CAST #25

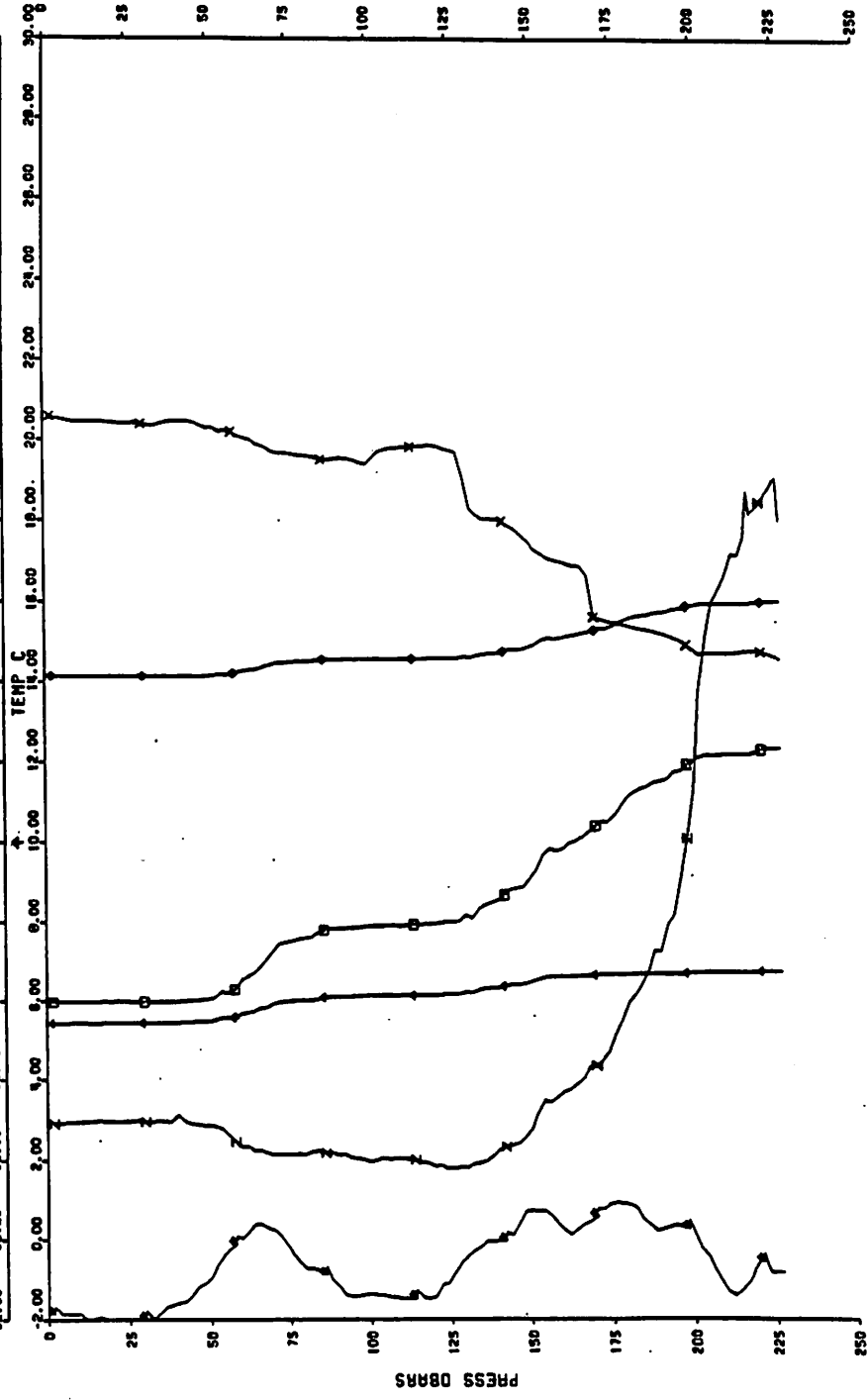
| | | | | | | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|---------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0.00 | 2.13 | 9.25 | 9.38 | 12.50 | 15.83 | 18.75 | 21.87 | N CPH | 22.00 | 24.12 | 31.25 | 31.36 | 37.50 | 42.63 | 42.75 | 48.88 | 50.00 |
| 0.00 | 0.05 | 0.10 | 0.15 | 0.20 | 0.25 | 0.30 | 0.35 | ATN COEFF M- | 0.40 | 0.45 | 0.50 | 0.55 | 0.60 | 0.65 | 0.70 | 0.75 | 0.80 |
| 0.00 | 0.63 | 1.25 | 1.88 | 2.50 | 3.13 | 3.75 | 4.38 | OXYGEN ML/L | 5.00 | 6.00 | 7.50 | 8.13 | 9.75 | 10.38 | 11.00 | 12.63 | 13.25 |
| 22.00 | 22.50 | 23.00 | 23.50 | 24.00 | 24.50 | 25.00 | 25.50 | SIGMA-1 KG/M ³ | 26.00 | 27.50 | 28.00 | 28.50 | 29.00 | 29.50 | 30.00 | 30.50 | 31.00 |
| 32.00 | 32.25 | 32.50 | 32.75 | 33.00 | 33.25 | 33.50 | 33.75 | SALINITY PSU | 34.00 | 34.25 | 34.50 | 34.75 | 35.00 | 35.25 | 35.50 | 35.75 | 36.00 |
| 0.00 | 0.00 | 2.00 | 4.00 | 6.00 | 8.00 | 10.00 | 12.00 | TEMP C | 14.00 | 16.00 | 18.00 | 20.00 | 22.00 | 24.00 | 26.00 | 28.00 | 30.00 |

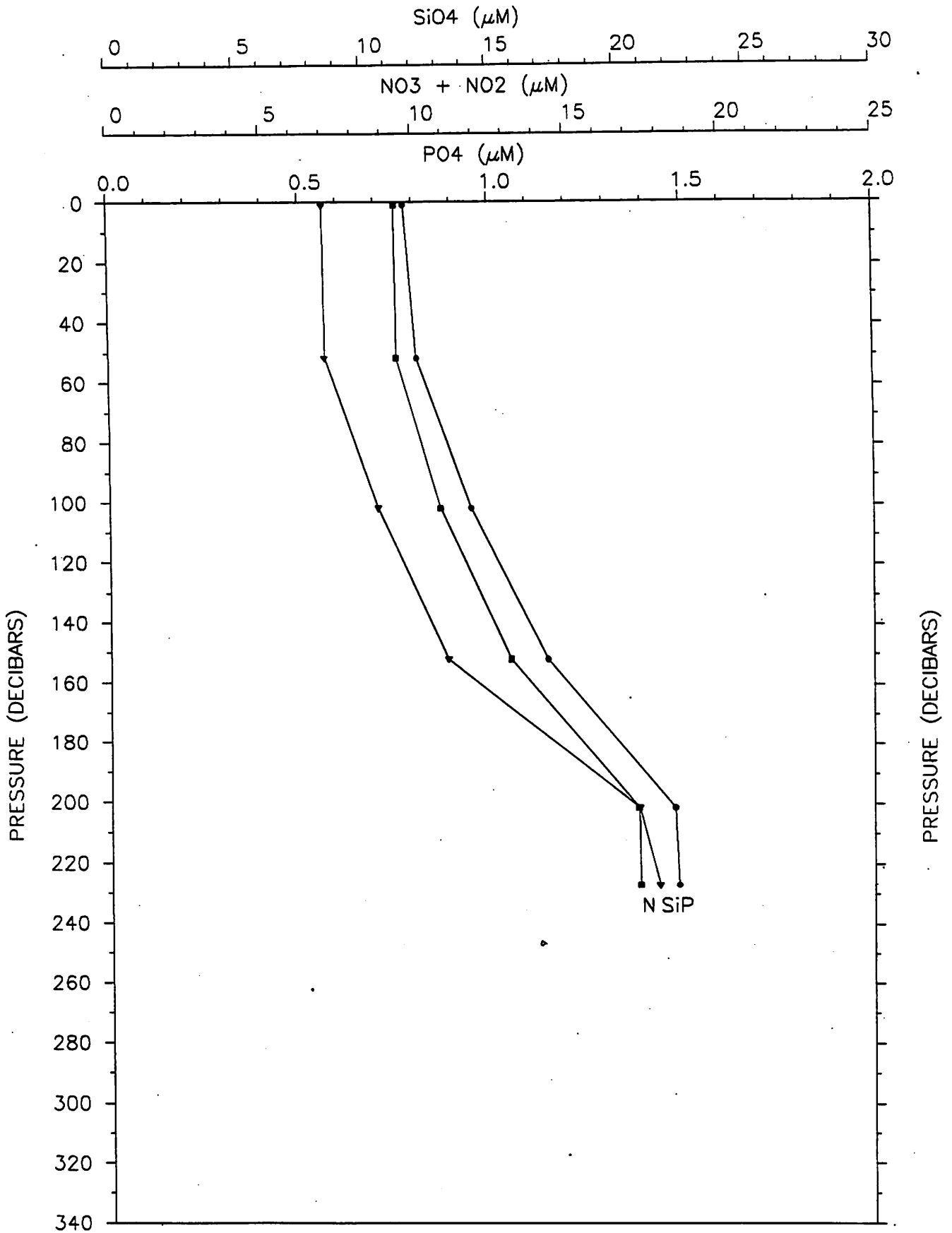




00181U CAST #26

| | | | | | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0.00 | 3.13 | 9.25 | 9.30 | 12.50 | 15.63 | 19.75 | 21.97 | 25.00 | 28.12 | 31.25 | 34.38 | 37.50 | 40.63 | 43.75 | 46.88 | 50.00 |
| 0.00 | 0.05 | 0.10 | 0.15 | 0.20 | 0.25 | 0.30 | 0.35 | 0.40 | 0.45 | 0.50 | 0.55 | 0.60 | 0.65 | 0.70 | 0.75 | 0.80 |
| 0.00 | 0.03 | 1.25 | 1.00 | 2.50 | 3.13 | 3.75 | 5.38 | 5.00 | 5.63 | 6.25 | 6.88 | 7.50 | 8.13 | 8.75 | 9.38 | 10.00 |
| 22.00 | 22.50 | 23.00 | 23.50 | 24.00 | 24.50 | 25.00 | 25.50 | 26.00 | 26.50 | 27.00 | 27.50 | 28.00 | 28.50 | 29.00 | 29.50 | 30.00 |
| 32.00 | 32.25 | 32.50 | 32.75 | 33.00 | 33.25 | 33.50 | 33.75 | 34.00 | 34.25 | 34.50 | 34.75 | 35.00 | 35.25 | 35.50 | 35.75 | 36.00 |



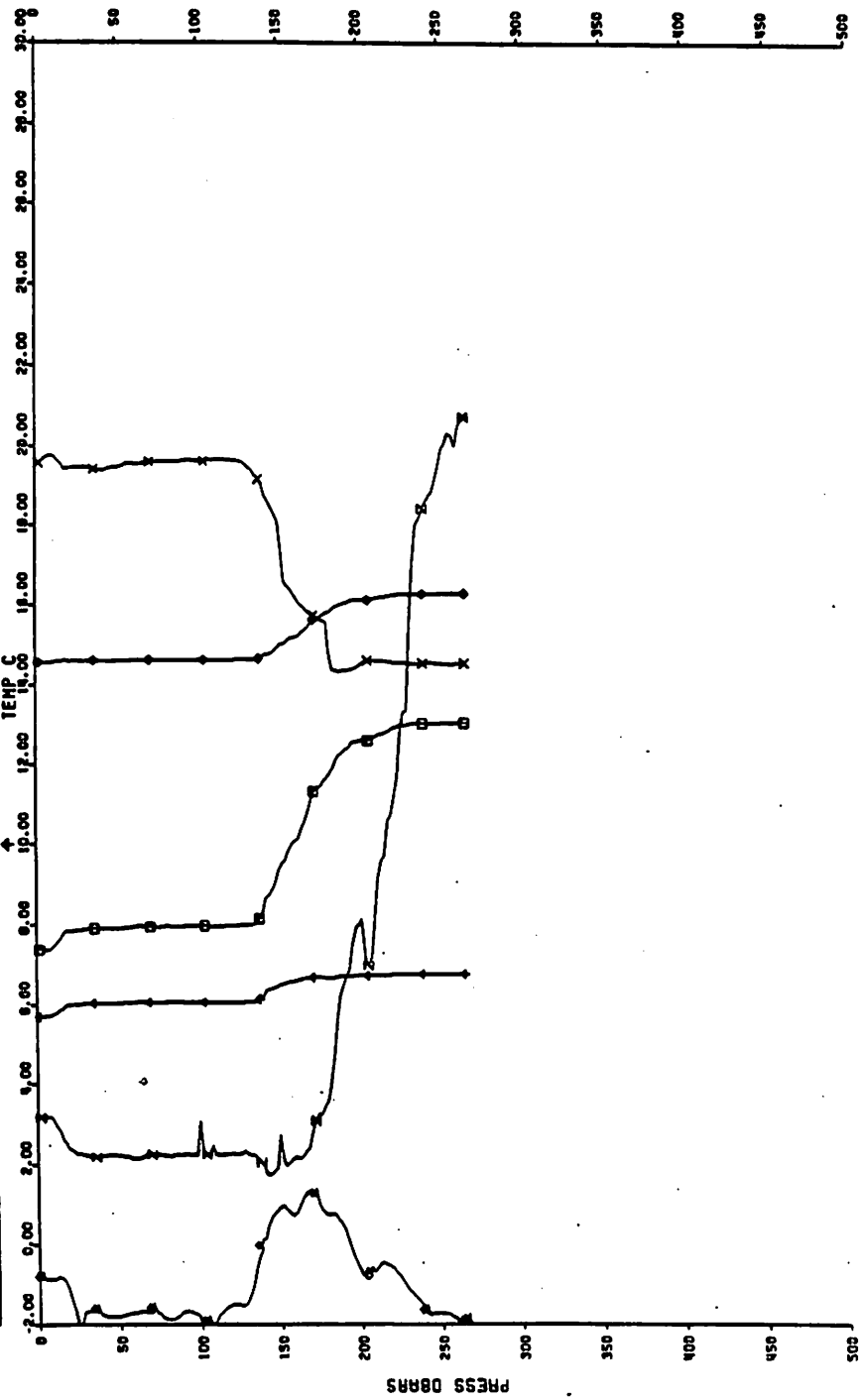


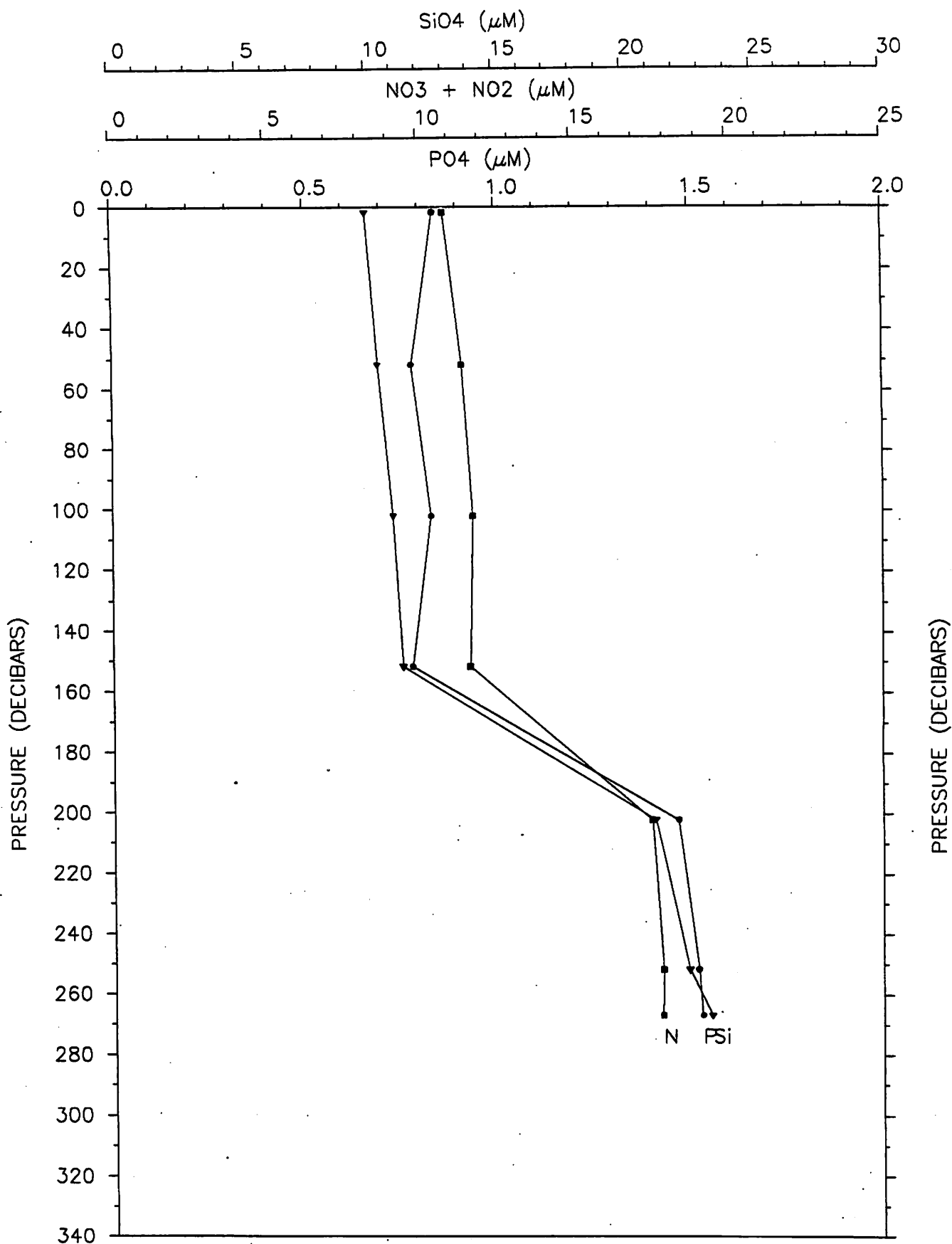
CRUISE: QC181
 7 FEB 87
 01: 52: 30 GMT

STATION: 26
 42 36.48 N
 69 22.02 W

0C181B CAST #27

| | | | | | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0.00 | 3.13 | 0.25 | 0.30 | 12.50 | 15.03 | 18.75 | 21.07 | 25.00 | 28.12 | 31.25 | 34.38 | 37.50 | 40.63 | 43.75 | 46.88 | 50.00 |
| | | | | | | | | | | | | | | | | |
| 0.00 | 0.05 | 0.10 | 0.15 | 0.20 | 0.25 | 0.30 | 0.35 | 0.40 | 0.45 | 0.50 | 0.55 | 0.60 | 0.65 | 0.70 | 0.75 | 0.80 |
| | | | | | | | | | | | | | | | | |
| 0.00 | 0.03 | 1.25 | 1.08 | 2.50 | 3.13 | 3.75 | 4.38 | 5.00 | 5.63 | 6.25 | 6.88 | 7.50 | 8.13 | 8.75 | 9.38 | 10.00 |
| | | | | | | | | | | | | | | | | |
| 22.00 | 22.50 | 23.00 | 23.50 | 24.00 | 24.50 | 25.00 | 25.50 | 26.00 | 26.50 | 27.00 | 27.50 | 28.00 | 28.50 | 29.00 | 29.50 | 30.00 |
| | | | | | | | | | | | | | | | | |
| 32.00 | 32.25 | 32.50 | 32.75 | 33.00 | 33.25 | 33.50 | 33.75 | 34.00 | 34.25 | 34.50 | 34.75 | 35.00 | 35.25 | 35.50 | 35.75 | 36.00 |
| | | | | | | | | | | | | | | | | |



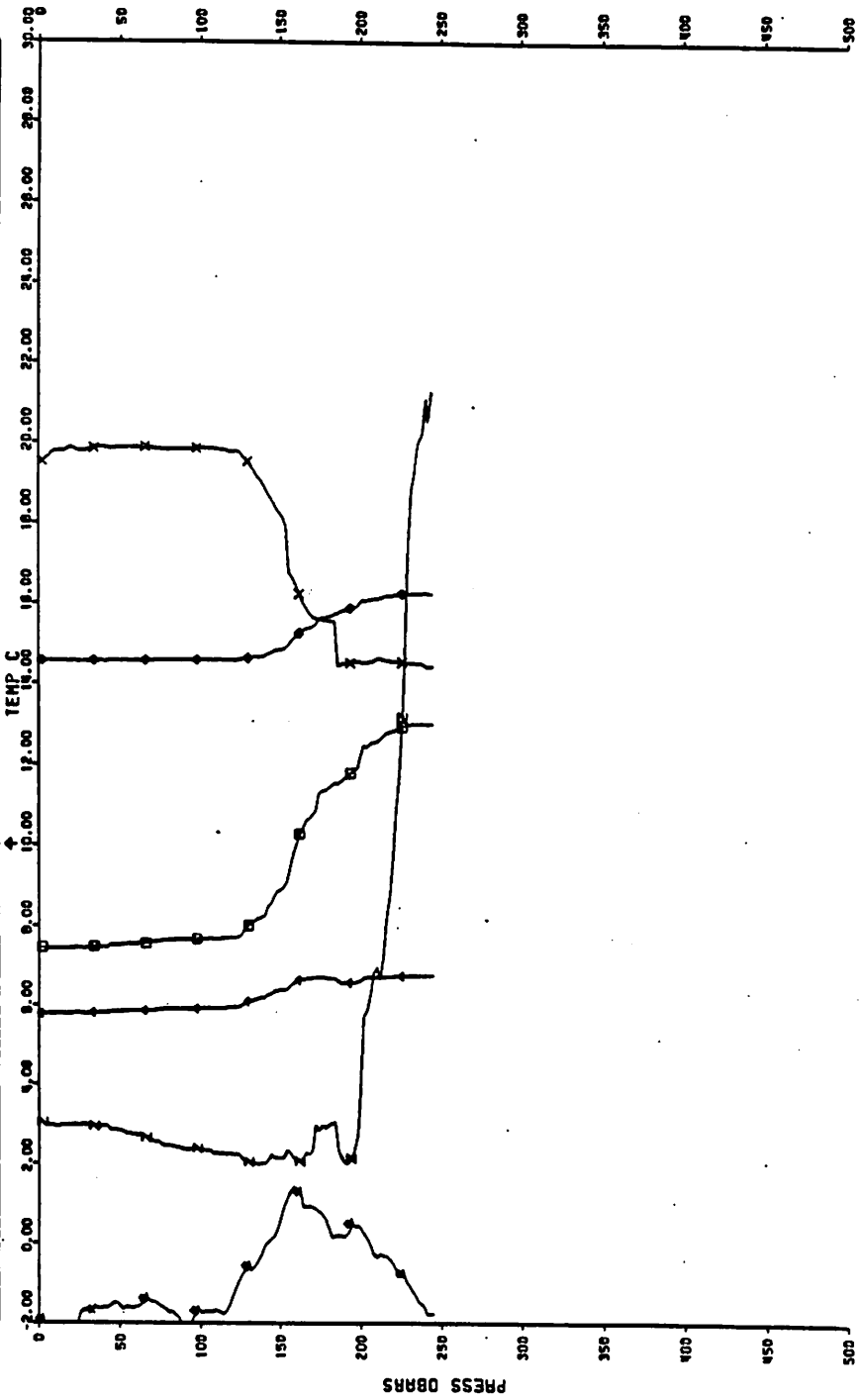


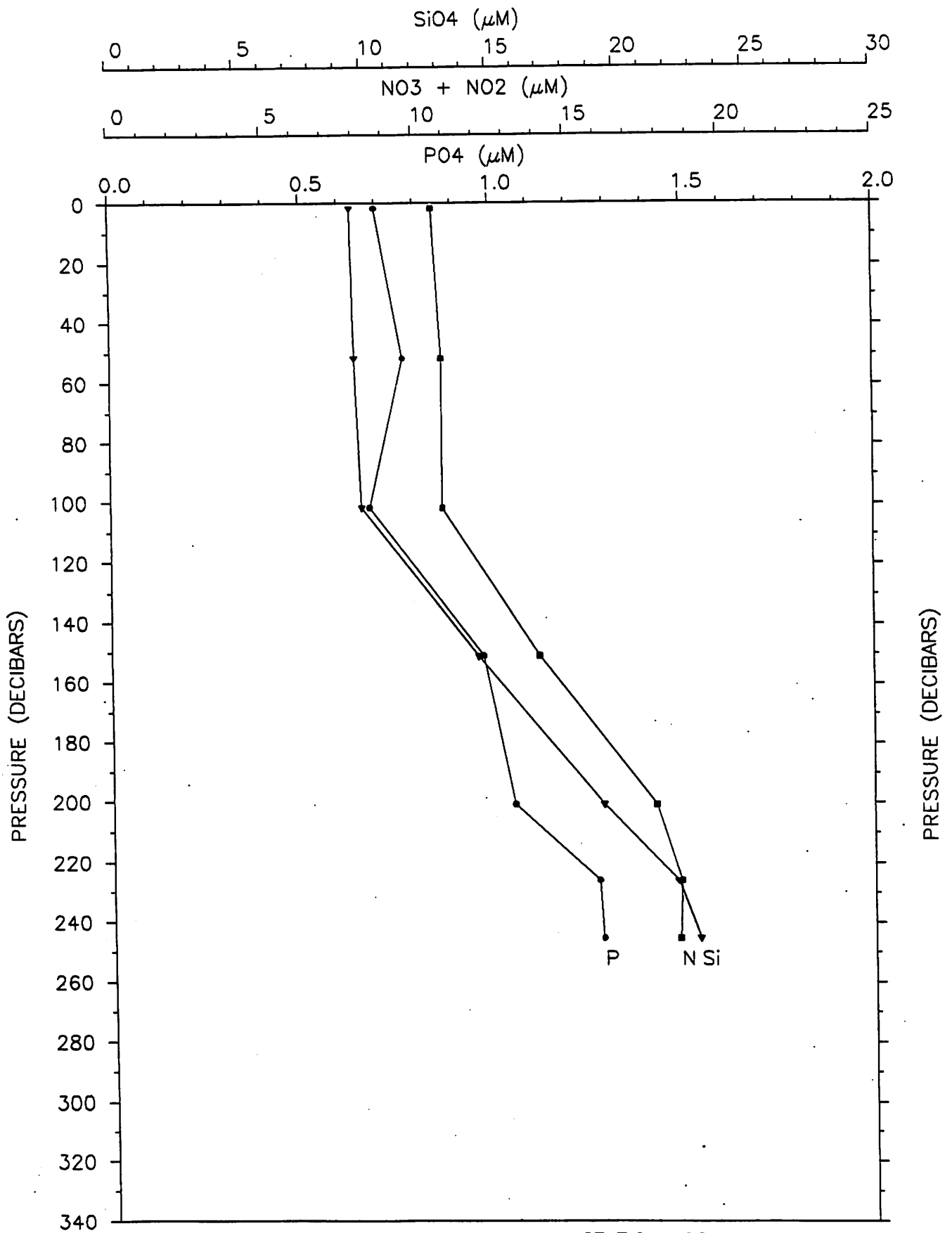
CRUISE: OC181
 7 FEB 87
 03: 22: 30 GMT

STATION: 27
 42 30.80 N
 69 29.93 W

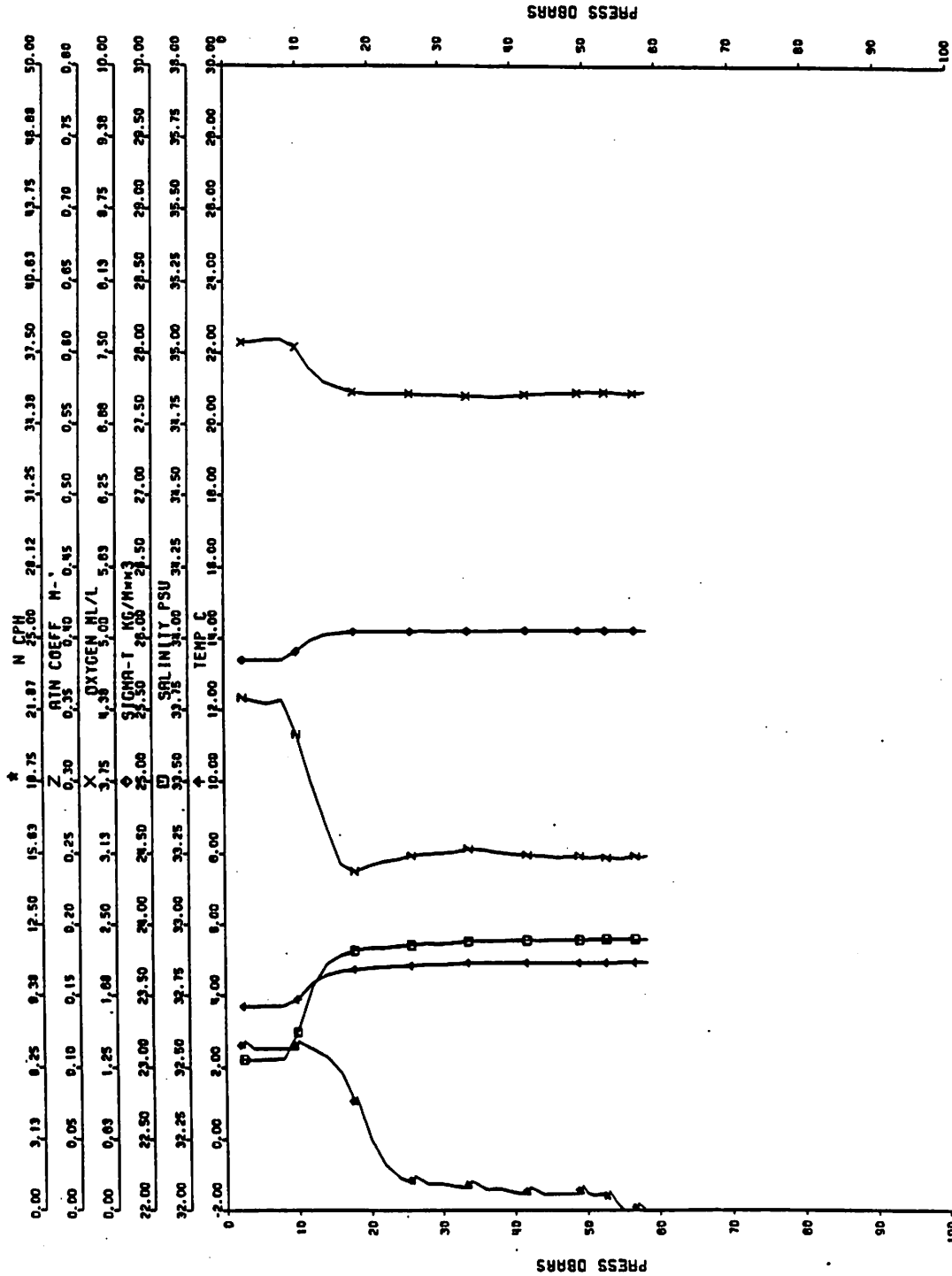
0C181B CAST #28

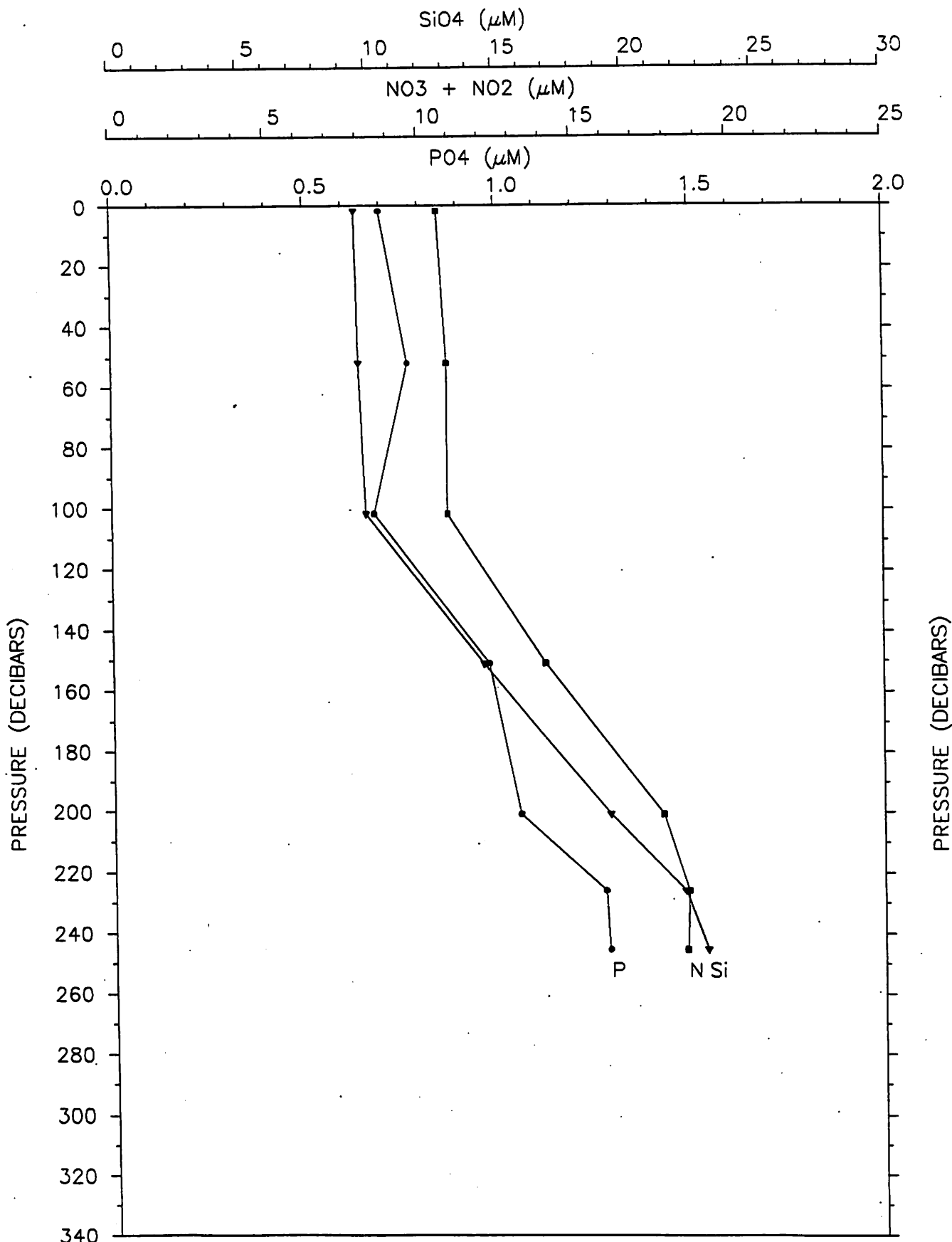
| | | | | | | | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|---------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0.00 | 3.13 | 9.25 | 9.38 | 12.50 | 15.63 | 18.75 | 21.87 | N CPH | 22.00 | 25.12 | 28.25 | 31.38 | 34.50 | 37.63 | 40.75 | 43.88 | 47.00 | 50.00 |
| 0.00 | 0.05 | 0.10 | 0.15 | 0.20 | 0.25 | 0.30 | 0.35 | RAIN COEFF M. | 0.40 | 0.45 | 0.50 | 0.55 | 0.60 | 0.65 | 0.70 | 0.75 | 0.80 | 0.80 |
| 0.00 | 0.63 | 1.25 | 1.88 | 2.50 | 3.13 | 3.75 | 4.38 | OXYGEN ML/L | 5.00 | 5.63 | 6.25 | 6.88 | 7.50 | 8.13 | 8.75 | 9.38 | 10.00 | 10.00 |
| 22.00 | 22.50 | 23.00 | 23.50 | 24.00 | 24.50 | 25.00 | 25.50 | SIENNA-T | 26.00 | 26.50 | 27.00 | 27.50 | 28.00 | 28.50 | 29.00 | 29.50 | 30.00 | 30.00 |
| 32.00 | 32.25 | 32.50 | 32.75 | 33.00 | 33.25 | 33.50 | 33.75 | SALINITY PSU | 34.00 | 34.25 | 34.50 | 34.75 | 35.00 | 35.25 | 35.50 | 35.75 | 36.00 | 36.00 |





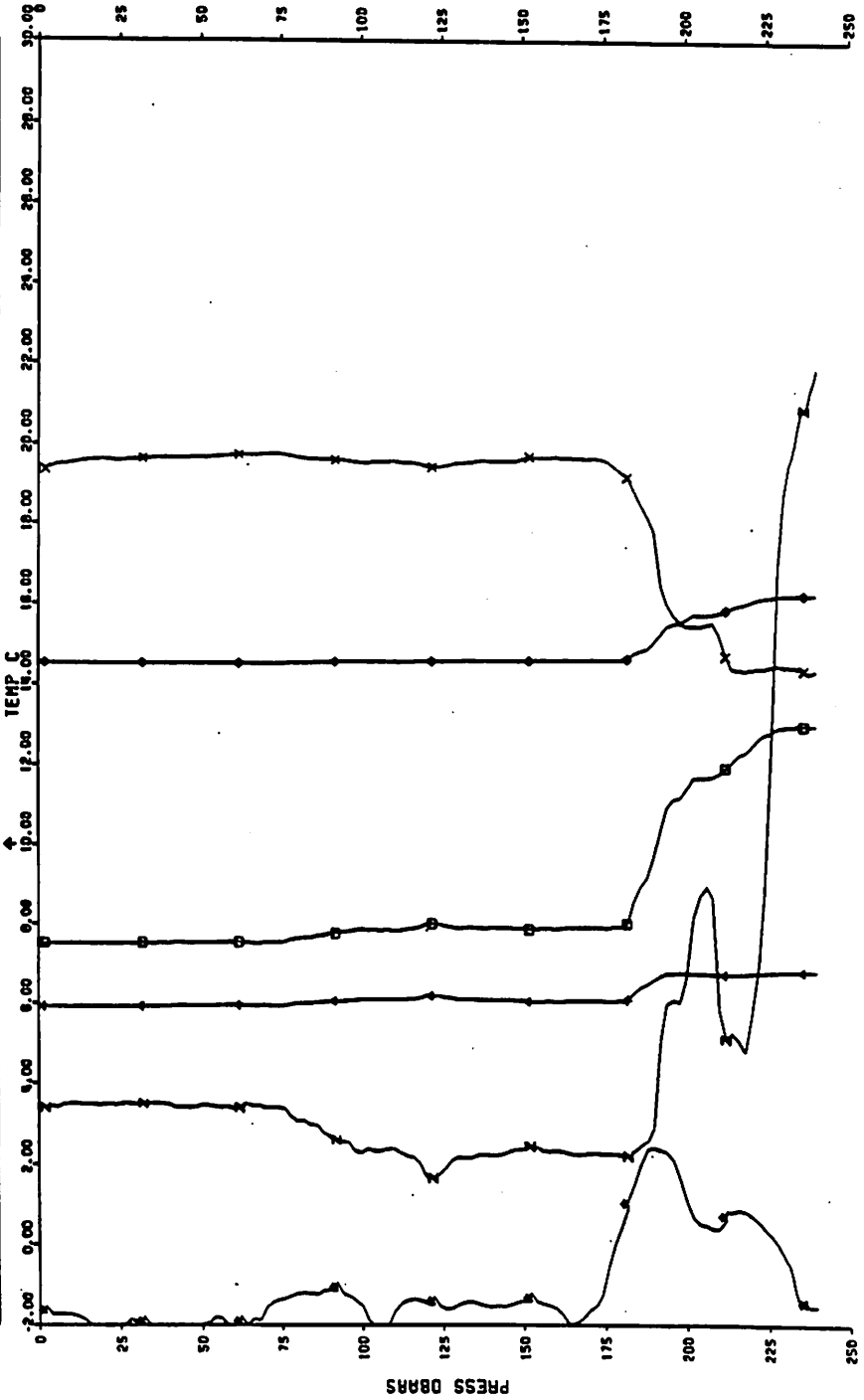
0C181A CAST #32

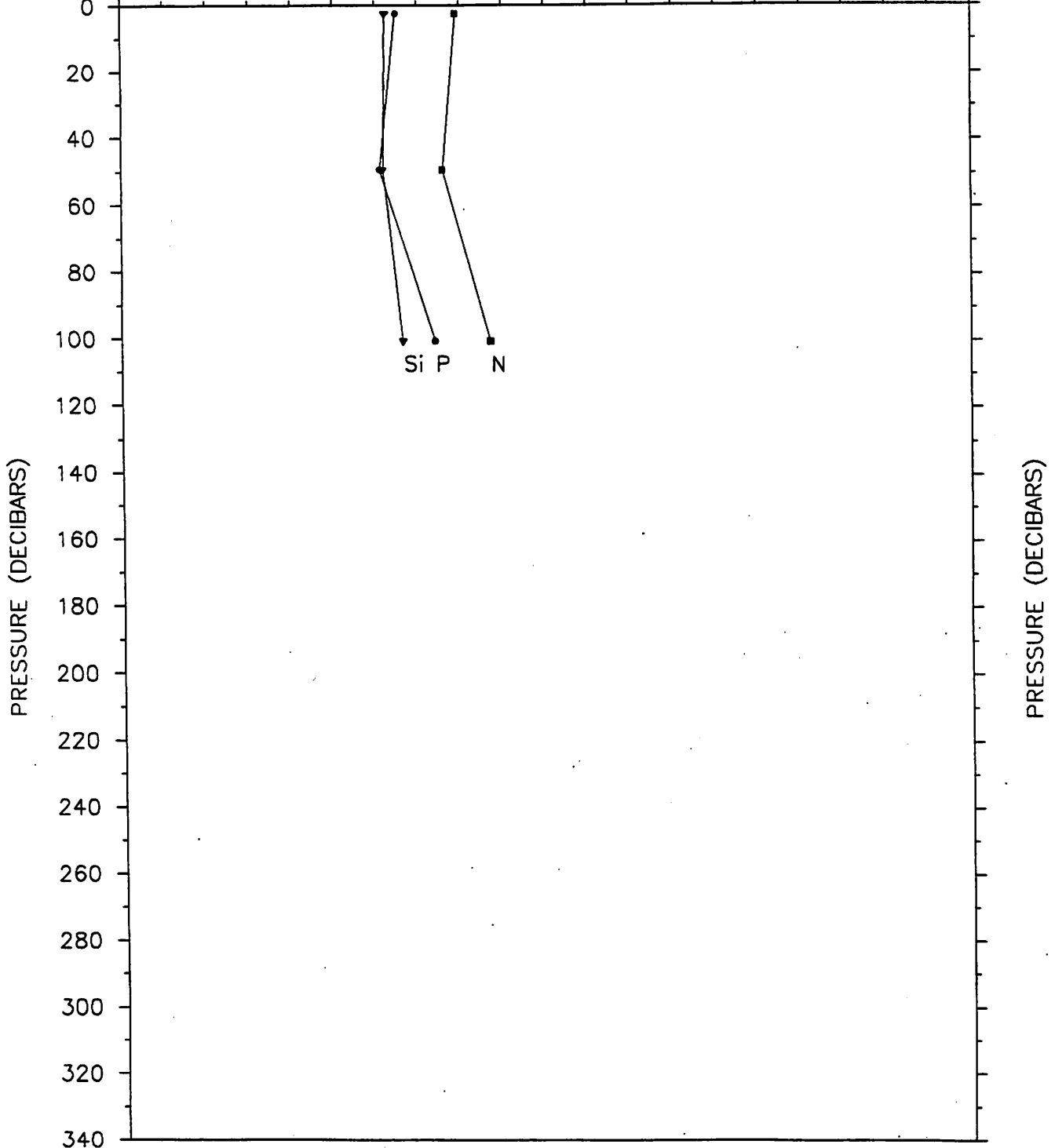
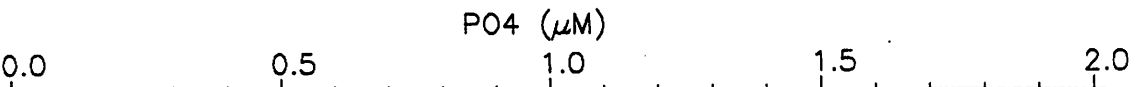
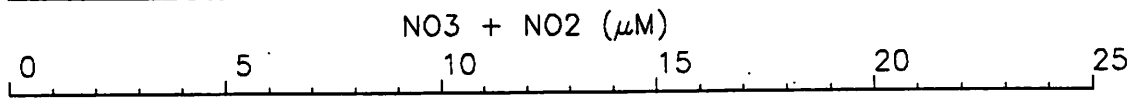
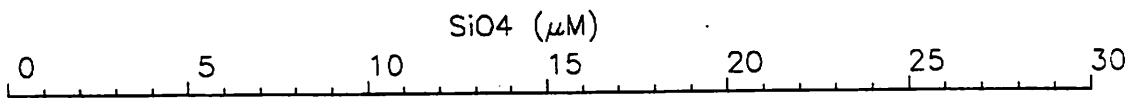




0C181A CAST #29

| | | | | | | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|--------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0.00 | 3.13 | 8.25 | 9.38 | 12.50 | 15.63 | 19.75 | 21.97 | M CPH | 22.00 | 28.12 | 31.25 | 34.38 | 37.50 | 40.63 | 43.75 | 46.88 | 50.00 |
| 0.00 | 0.05 | 0.10 | 0.15 | 0.20 | 0.25 | 0.30 | 0.35 | RIN COEFF | 0.40 | 0.45 | 0.50 | 0.55 | 0.60 | 0.65 | 0.70 | 0.75 | 0.80 |
| 0.00 | 0.03 | 1.25 | 1.08 | 2.50 | 3.13 | 3.75 | 4.38 | OXYGEN HL/L | 5.03 | 6.25 | 6.88 | 7.50 | 8.13 | 8.75 | 9.38 | 10.00 | |
| 22.00 | 22.50 | 23.00 | 23.50 | 24.00 | 24.50 | 25.00 | 25.50 | SIGMA-1 | 26.00 | 26.50 | 27.00 | 27.50 | 28.00 | 28.50 | 29.00 | 29.50 | 30.00 |
| 32.00 | 32.25 | 32.50 | 32.75 | 33.00 | 33.25 | 33.50 | 33.75 | SRL IN Y PSU | 34.00 | 34.25 | 34.50 | 34.75 | 35.00 | 35.25 | 35.50 | 35.75 | 36.00 |



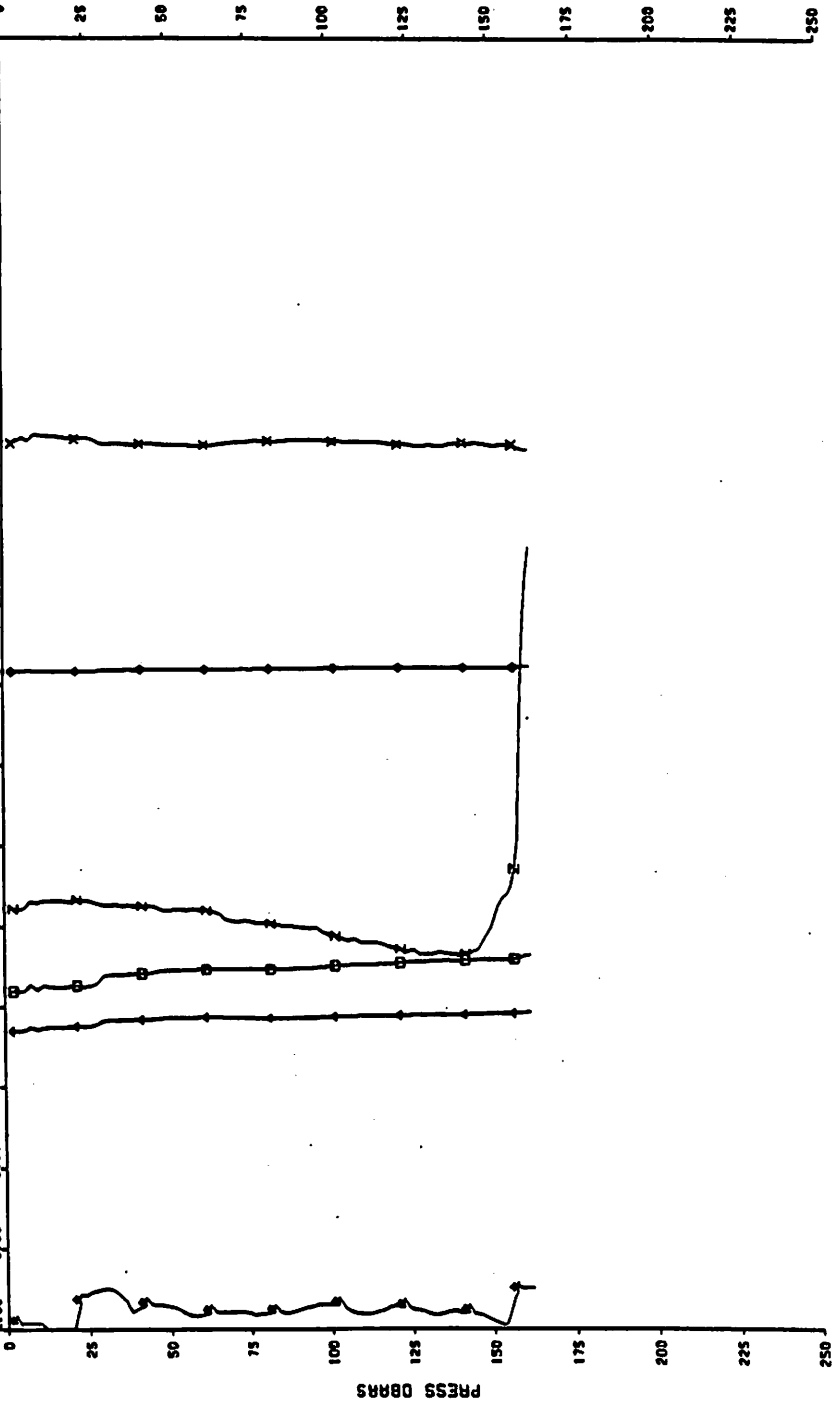


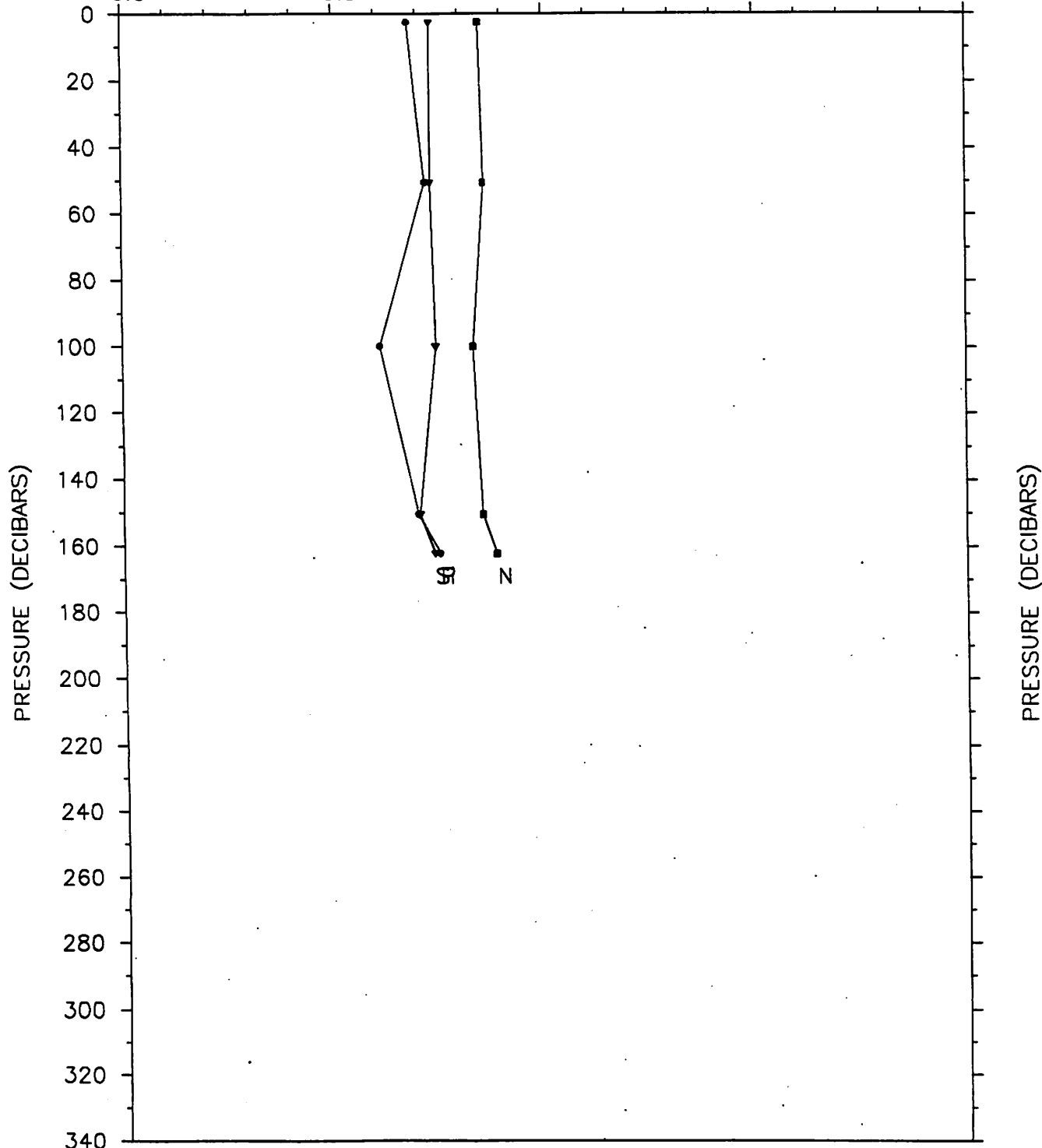
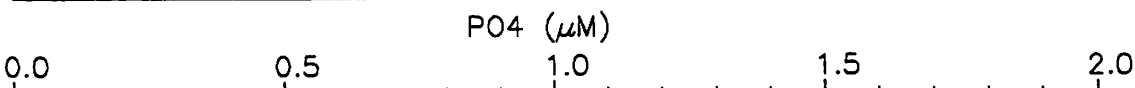
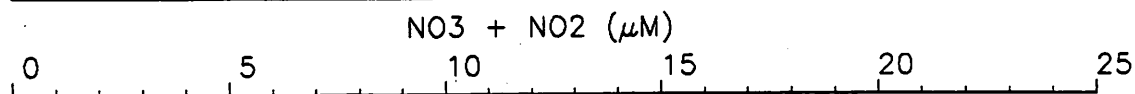
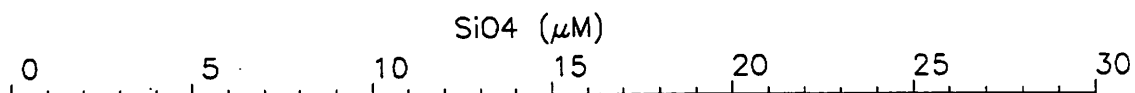
CRUISE: OC181
7 FEB 87
06: 00: 00 GMT

STATION: 29
42 18.03 N
69 46.89 W

0C181A CAST #30

| | | | | | | | | | | | | | | | | |
|-------|---------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0.00 | 3.13 | 6.25 | 9.38 | 12.50 | 15.63 | 18.75 | 21.87 | 25.00 | 28.12 | 31.25 | 34.38 | 37.50 | 40.63 | 43.75 | 46.88 | 50.00 |
| | M CPH | | | | | | | | | | | | | | | |
| 0.00 | 0.05 | 0.10 | 0.15 | 0.20 | 0.25 | 0.30 | 0.35 | 0.40 | 0.45 | 0.50 | 0.55 | 0.60 | 0.65 | 0.70 | 0.75 | 0.80 |
| | RIN COEFF M- | | | | | | | | | | | | | | | |
| 0.00 | 0.03 | 1.25 | 1.68 | 2.50 | 3.13 | 3.75 | 4.38 | 5.00 | 5.63 | 6.25 | 6.88 | 7.50 | 8.13 | 8.75 | 9.38 | 10.00 |
| | OXYGEN ML/L | | | | | | | | | | | | | | | |
| 22.00 | 27.50 | 29.08 | 29.50 | 29.00 | 28.50 | 25.00 | 22.50 | 20.00 | 17.50 | 15.00 | 12.50 | 10.00 | 7.50 | 5.00 | 2.50 | 0.00 |
| | SICMR-T KG/M ³ | | | | | | | | | | | | | | | |
| 32.00 | 32.25 | 32.50 | 32.75 | 33.00 | 33.25 | 33.50 | 33.75 | 34.00 | 34.25 | 34.50 | 34.75 | 35.00 | 35.25 | 35.50 | 35.75 | 36.00 |
| | SALINITY PSU | | | | | | | | | | | | | | | |
| 0 | 2.00 | 4.00 | 6.00 | 8.00 | 10.00 | 12.00 | 14.00 | 16.00 | 18.00 | 20.00 | 22.00 | 24.00 | 26.00 | 28.00 | 30.00 | 32.00 |
| | TEMP C | | | | | | | | | | | | | | | |

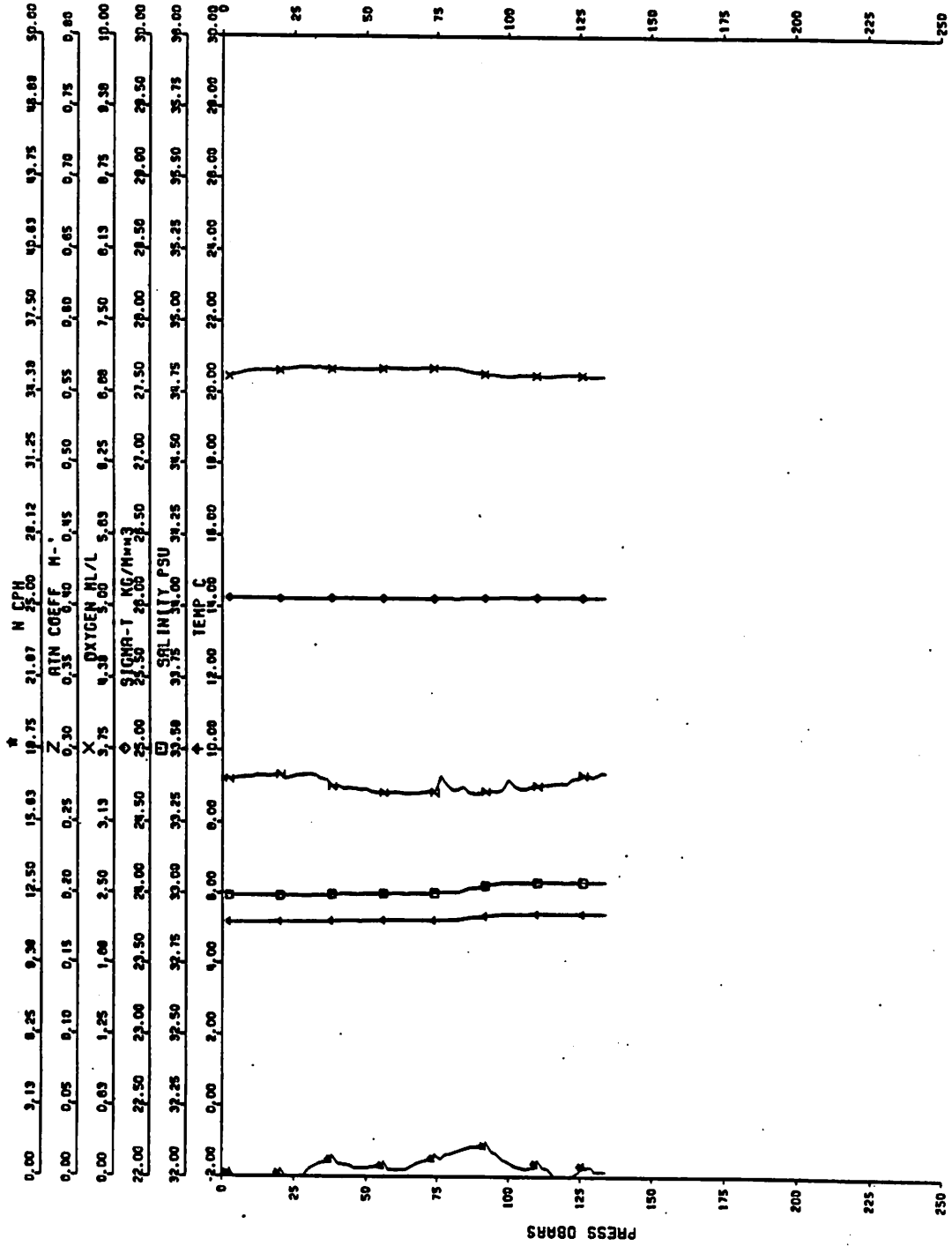


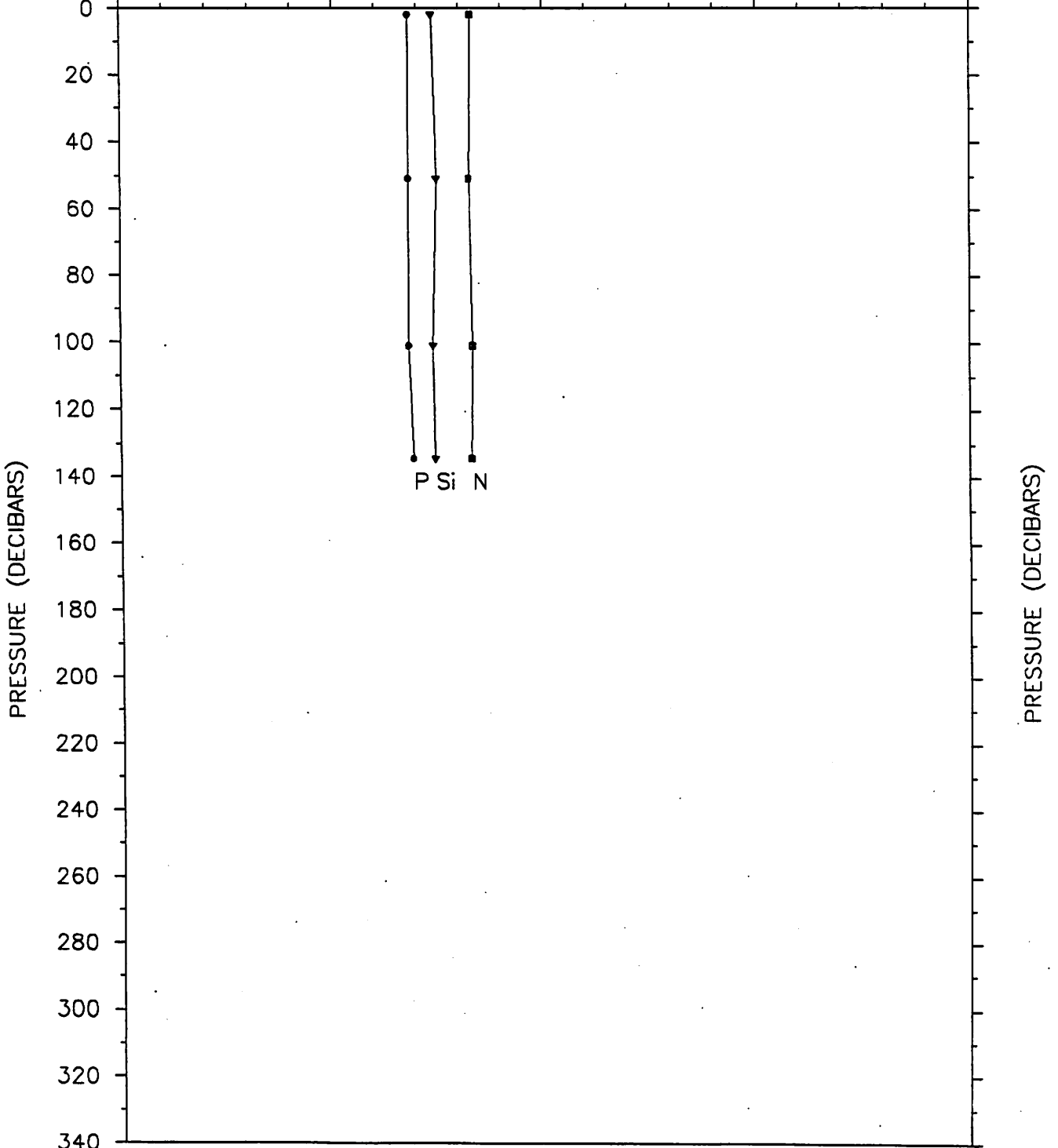
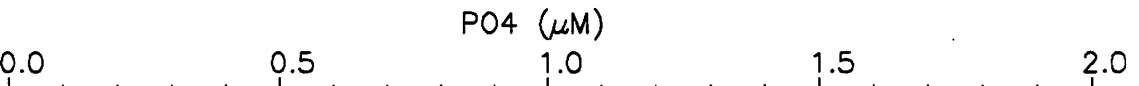
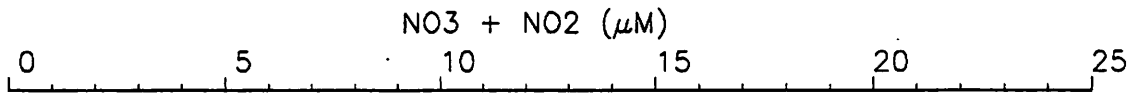
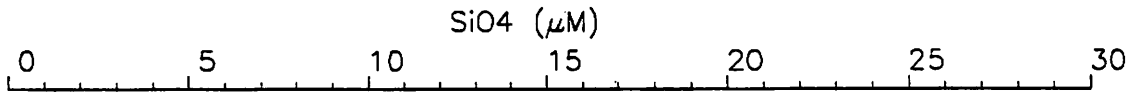


CRUISE: OC181
 7 FEB 87
 07: 15: 00 GMT

STATION: 30
 42 12.03 N
 69 53.90 W

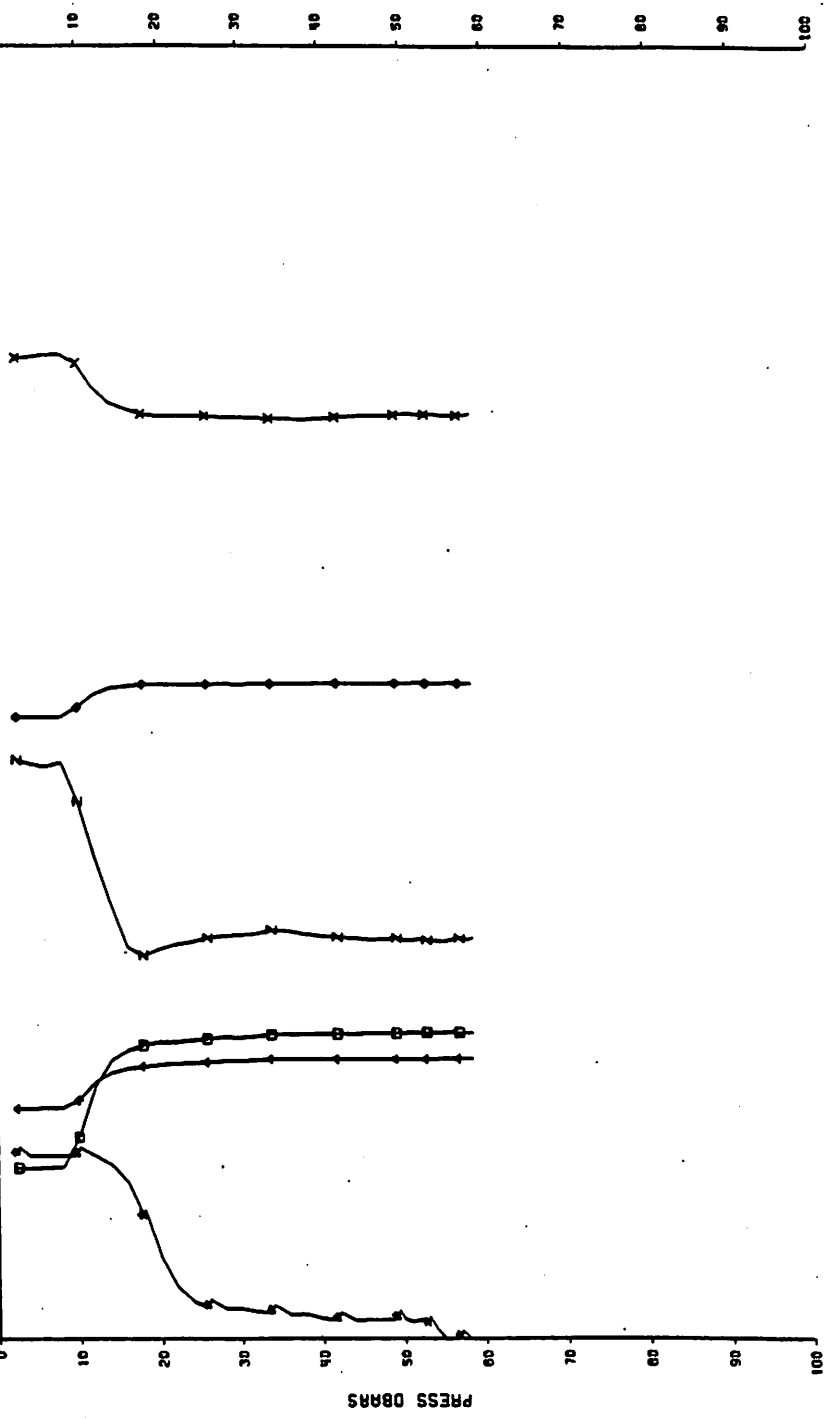
0C181B CAST #31

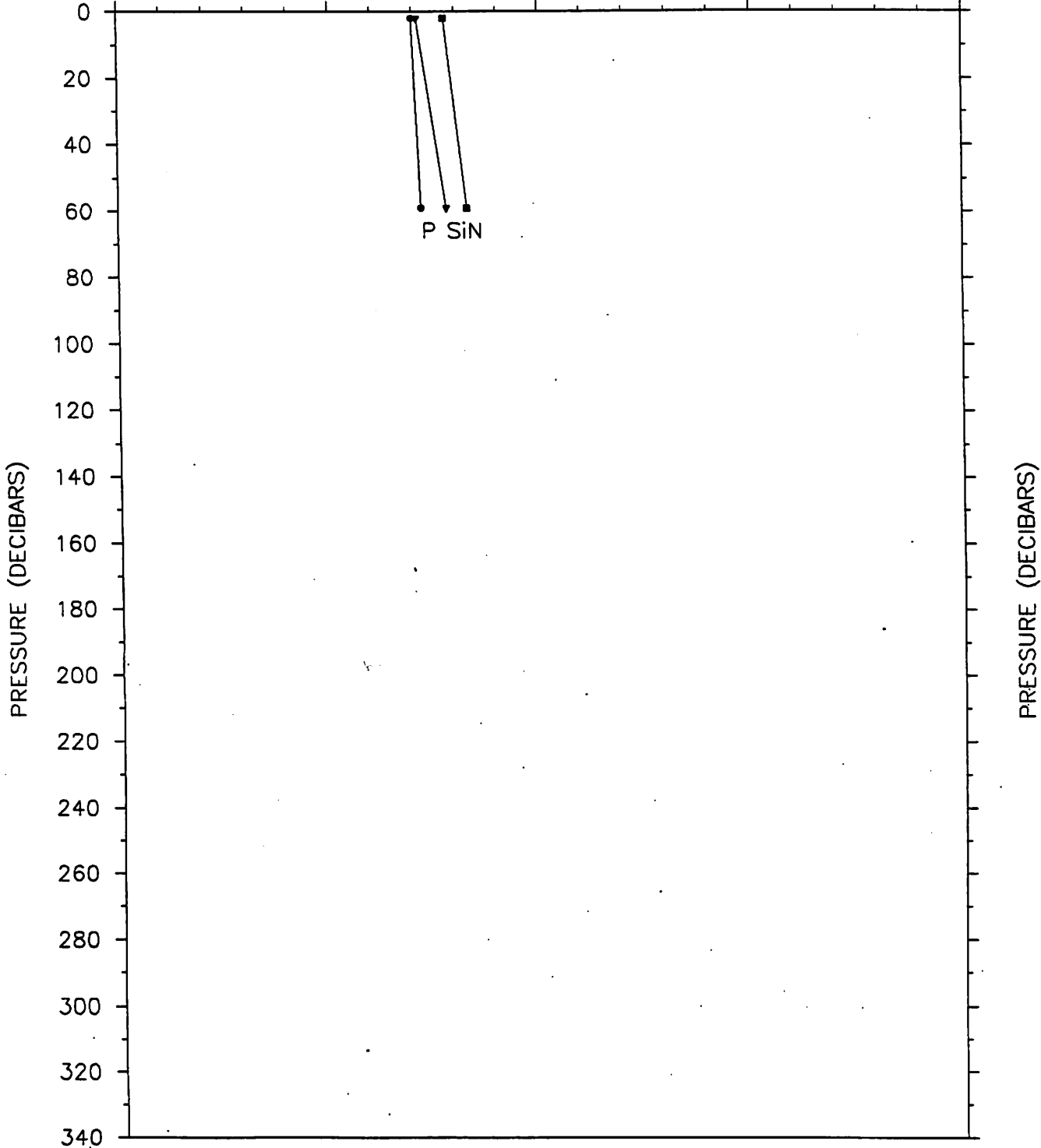
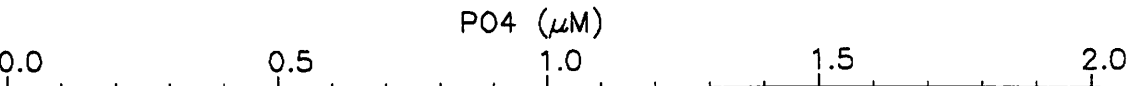
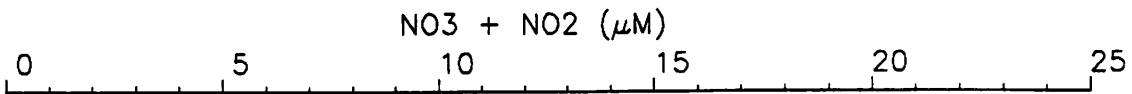
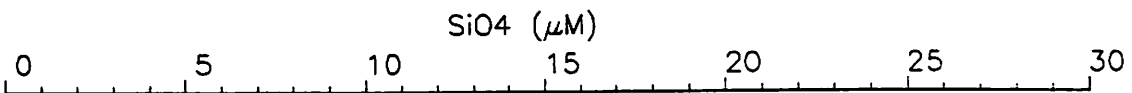




0C181A CAST #32

| | | | | | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0.00 | 3.13 | 6.25 | 9.38 | 12.50 | 15.63 | 18.75 | 21.87 | 25.00 | 28.12 | 31.25 | 34.38 | 37.50 | 40.63 | 43.75 | 46.88 | 50.00 |
| | | | | | | | | | | | | | | | | |
| 0.00 | 0.05 | 0.10 | 0.15 | 0.20 | 0.25 | 0.30 | 0.35 | 0.40 | 0.45 | 0.50 | 0.55 | 0.60 | 0.65 | 0.70 | 0.75 | 0.80 |
| | | | | | | | | | | | | | | | | |
| 0.00 | 0.63 | 1.25 | 1.88 | 2.50 | 3.13 | 3.75 | 4.38 | 5.00 | 5.63 | 6.25 | 6.88 | 7.50 | 8.13 | 8.75 | 9.38 | 10.00 |
| | | | | | | | | | | | | | | | | |
| 22.00 | 22.50 | 23.00 | 23.50 | 24.00 | 24.50 | 25.00 | 25.50 | 26.00 | 26.50 | 27.00 | 27.50 | 28.00 | 28.50 | 29.00 | 29.50 | 30.00 |
| | | | | | | | | | | | | | | | | |
| 32.00 | 32.25 | 32.50 | 32.75 | 33.00 | 33.25 | 33.50 | 33.75 | 34.00 | 34.25 | 34.50 | 34.75 | 35.00 | 35.25 | 35.50 | 35.75 | 36.00 |
| | | | | | | | | | | | | | | | | |



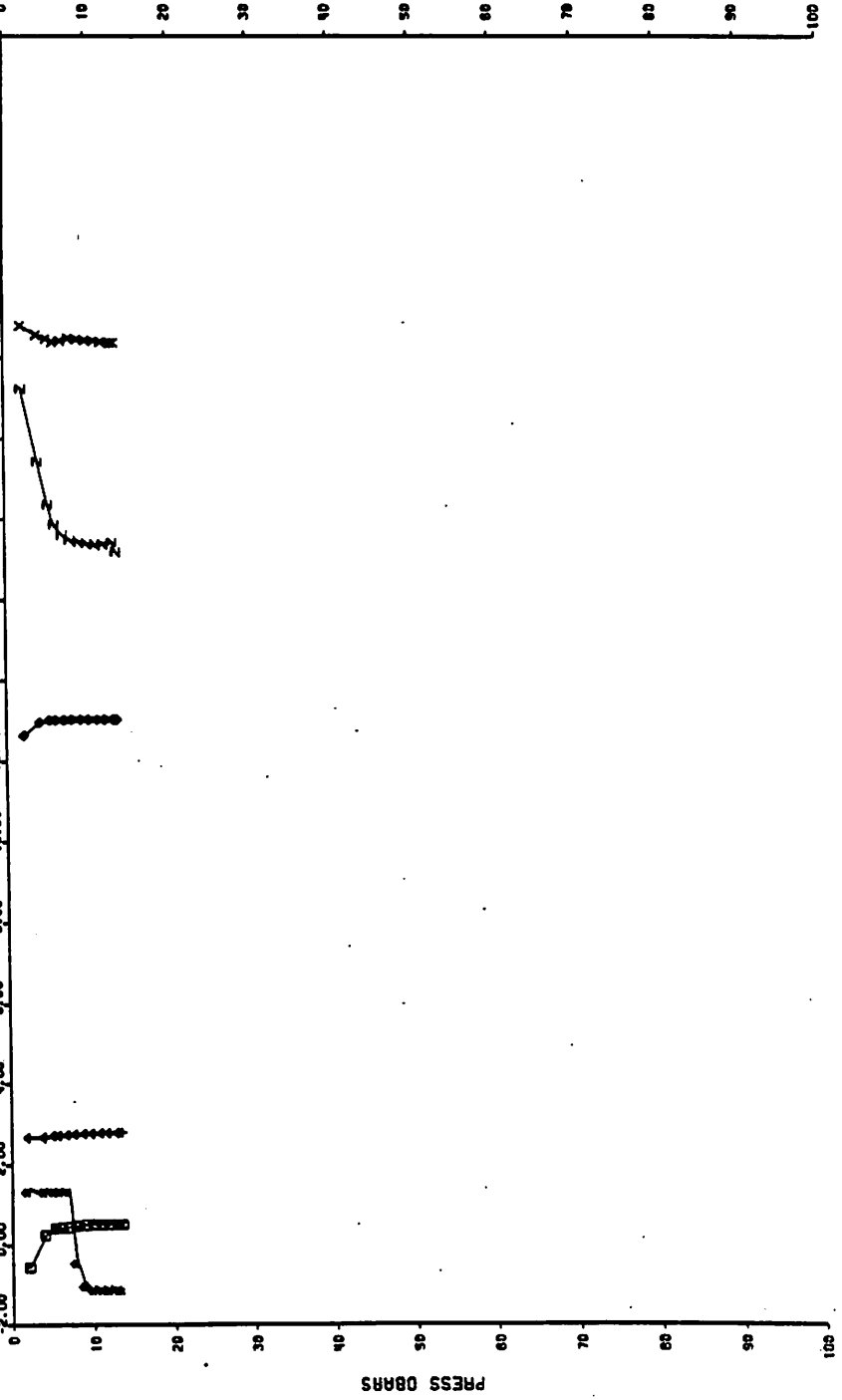


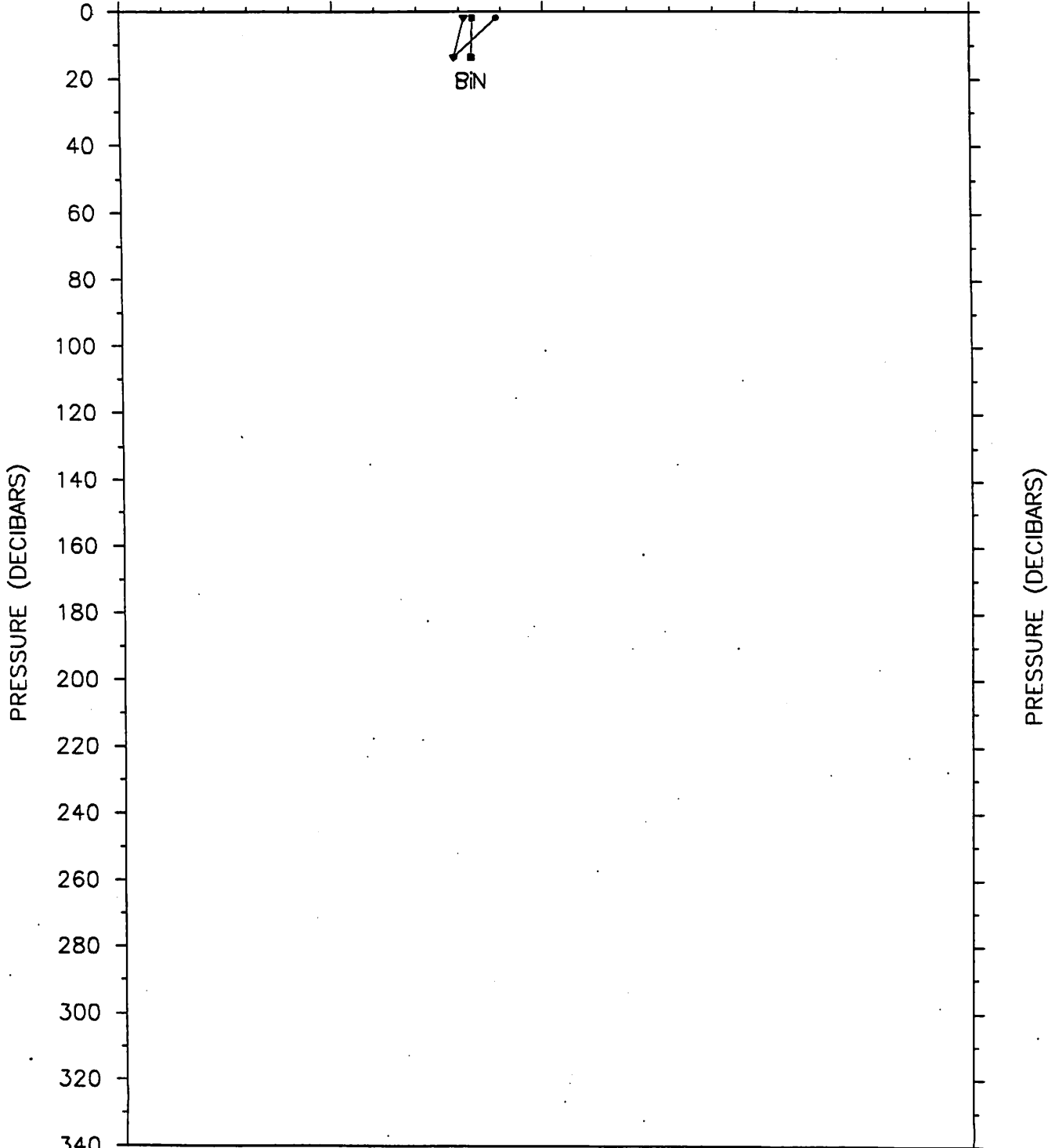
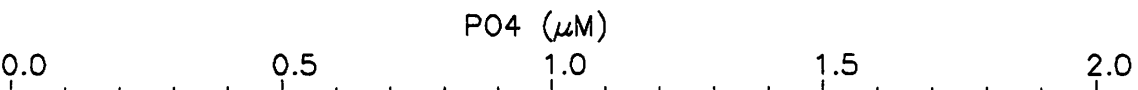
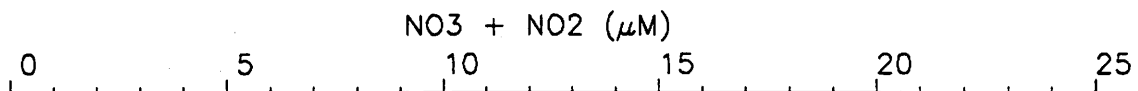
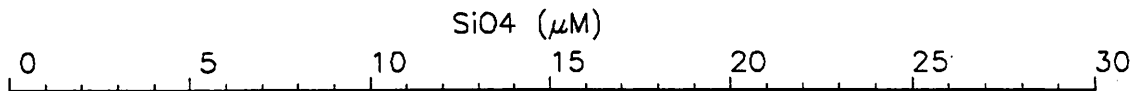
CRUISE: OC181
7 FEB 87
08: 52: 30 GMT

STATION: 32
42 06.00 N
70 01.40 W

0C181A CAST #33

| | | | | | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0.00 | 3.13 | 8.25 | 9.38 | 12.50 | 15.63 | 18.75 | 21.87 | 25.00 | 28.12 | 31.25 | 34.38 | 37.50 | 40.63 | 43.75 | 46.88 | 50.00 |
| 0.00 | 0.05 | 0.10 | 0.15 | 0.20 | 0.25 | 0.30 | 0.35 | 0.40 | 0.45 | 0.50 | 0.55 | 0.60 | 0.65 | 0.70 | 0.75 | 0.80 |
| 0.00 | 0.03 | 1.25 | 1.68 | 2.50 | 3.13 | 3.75 | 4.38 | 5.00 | 5.63 | 6.25 | 6.88 | 7.50 | 8.13 | 8.75 | 9.38 | 10.00 |
| 22.00 | 22.50 | 23.00 | 23.50 | 24.00 | 24.50 | 25.00 | 25.50 | 26.00 | 26.50 | 27.00 | 27.50 | 28.00 | 28.50 | 29.00 | 29.50 | 30.00 |
| 32.00 | 32.25 | 32.50 | 32.75 | 33.00 | 33.25 | 33.50 | 33.75 | 34.00 | 34.25 | 34.50 | 34.75 | 35.00 | 35.25 | 35.50 | 35.75 | 36.00 |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |



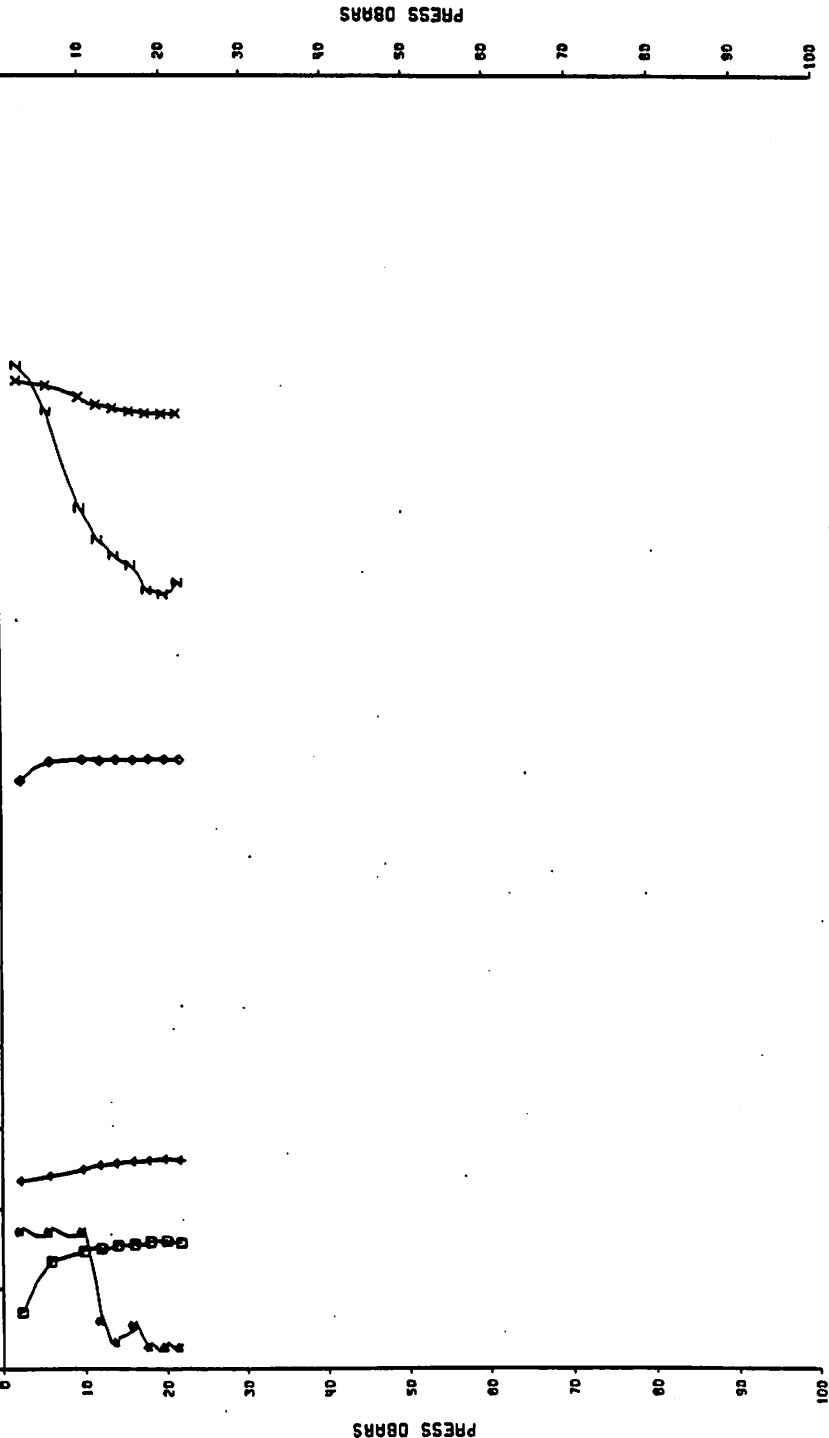


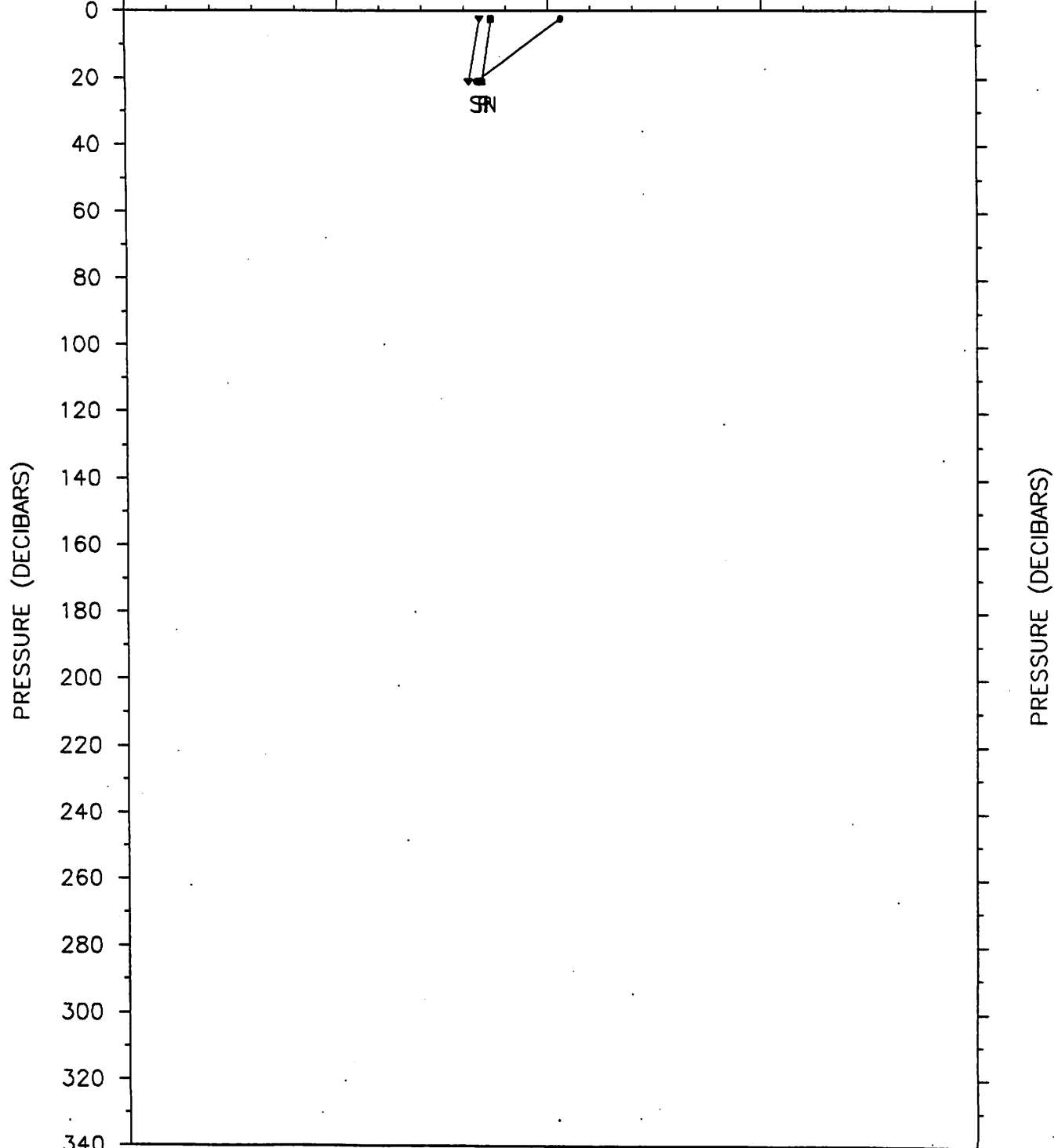
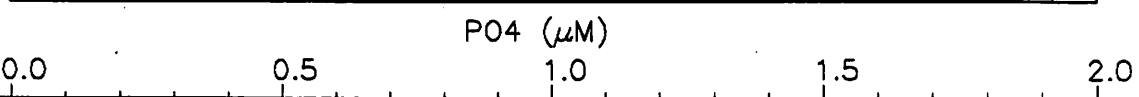
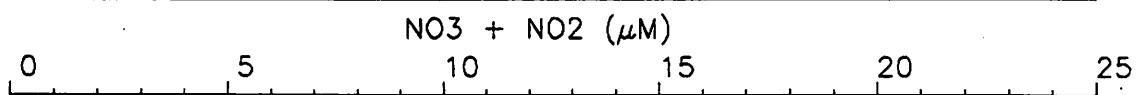
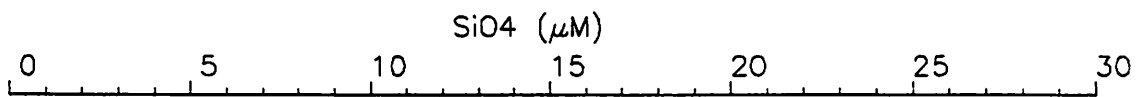
CRUISE: OC181
8 FEB 87
00: 07: 30 GMT

STATION: 33
42 23.00 N
70 56.07 W

0C181A CAST #34

| | | | | | | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-----------|-------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0.00 | 3.13 | 0.25 | 0.30 | 12.50 | 15.03 | 10.75 | 21.07 | N CPH | 25.00 | 20.12 | 31.25 | 31.38 | 37.50 | 40.63 | 43.75 | 49.68 | 50.00 |
| 0.00 | 0.05 | 0.10 | 0.15 | 0.20 | 0.25 | 0.30 | 0.35 | RIN COEFF | M ⁻¹ | 0.45 | 0.50 | 0.55 | 0.60 | 0.65 | 0.70 | 0.75 | 0.80 |
| 0.00 | 0.03 | 1.25 | 1.00 | 2.50 | 3.13 | 3.75 | 4.38 | OXYGEN | ML/L | 5.03 | 6.25 | 6.00 | 7.50 | 0.13 | 0.75 | 0.38 | 10.00 |
| 22.00 | 22.50 | 23.00 | 23.50 | 24.00 | 24.50 | 25.00 | 25.50 | SIGMA-1 | KG/M ³ | 26.50 | 27.00 | 27.50 | 28.00 | 28.50 | 29.00 | 29.50 | 30.00 |
| 32.00 | 32.25 | 32.50 | 32.75 | 33.00 | 33.25 | 33.50 | 33.75 | SOLINITY | PSU | 34.00 | 34.25 | 34.50 | 34.75 | 35.00 | 35.25 | 35.50 | 35.75 |
| 0.00 | 0.00 | 2.00 | 4.00 | 6.00 | 8.00 | 10.00 | 12.00 | TEMP | C | 14.00 | 16.00 | 18.00 | 20.00 | 22.00 | 24.00 | 26.00 | 28.00 |



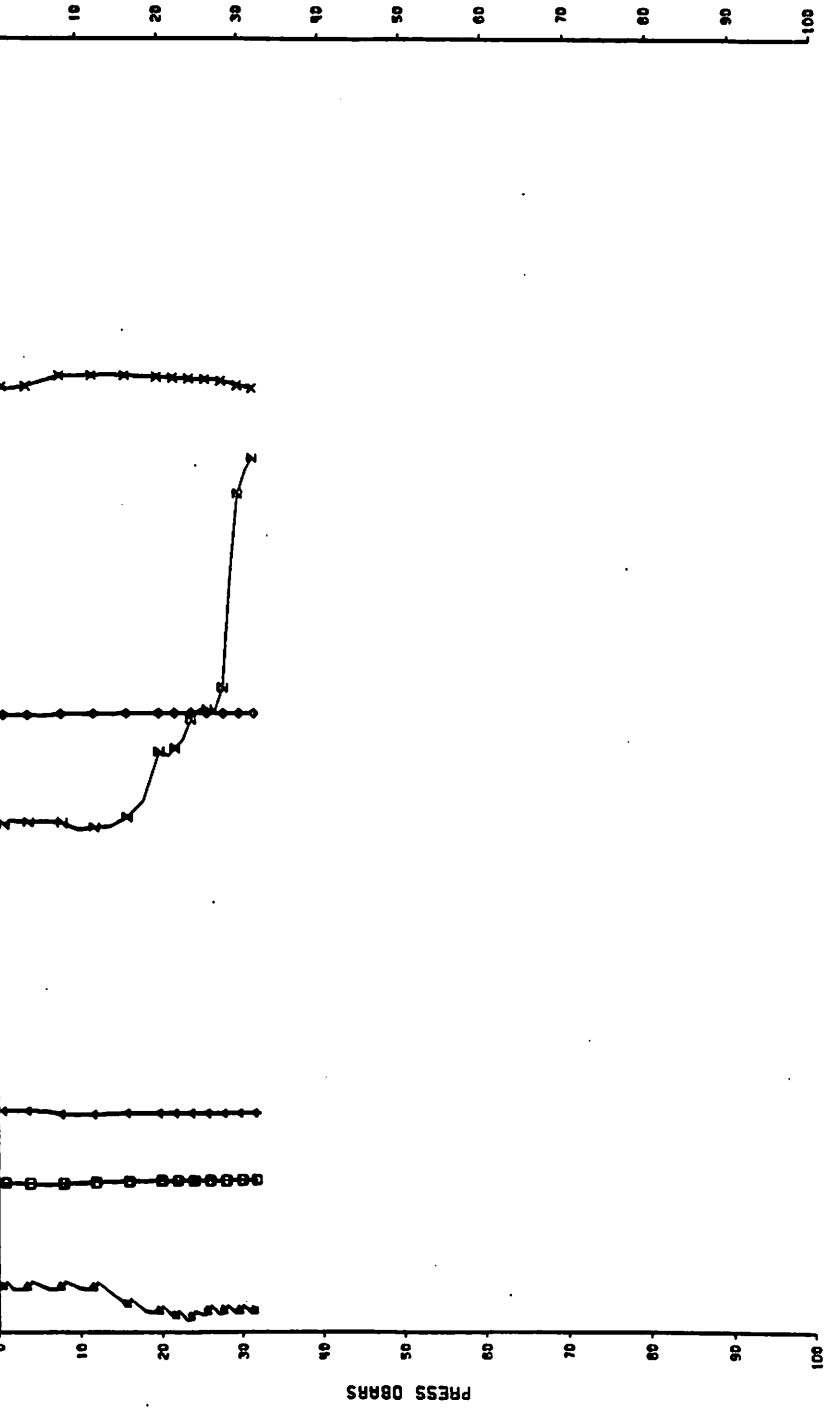


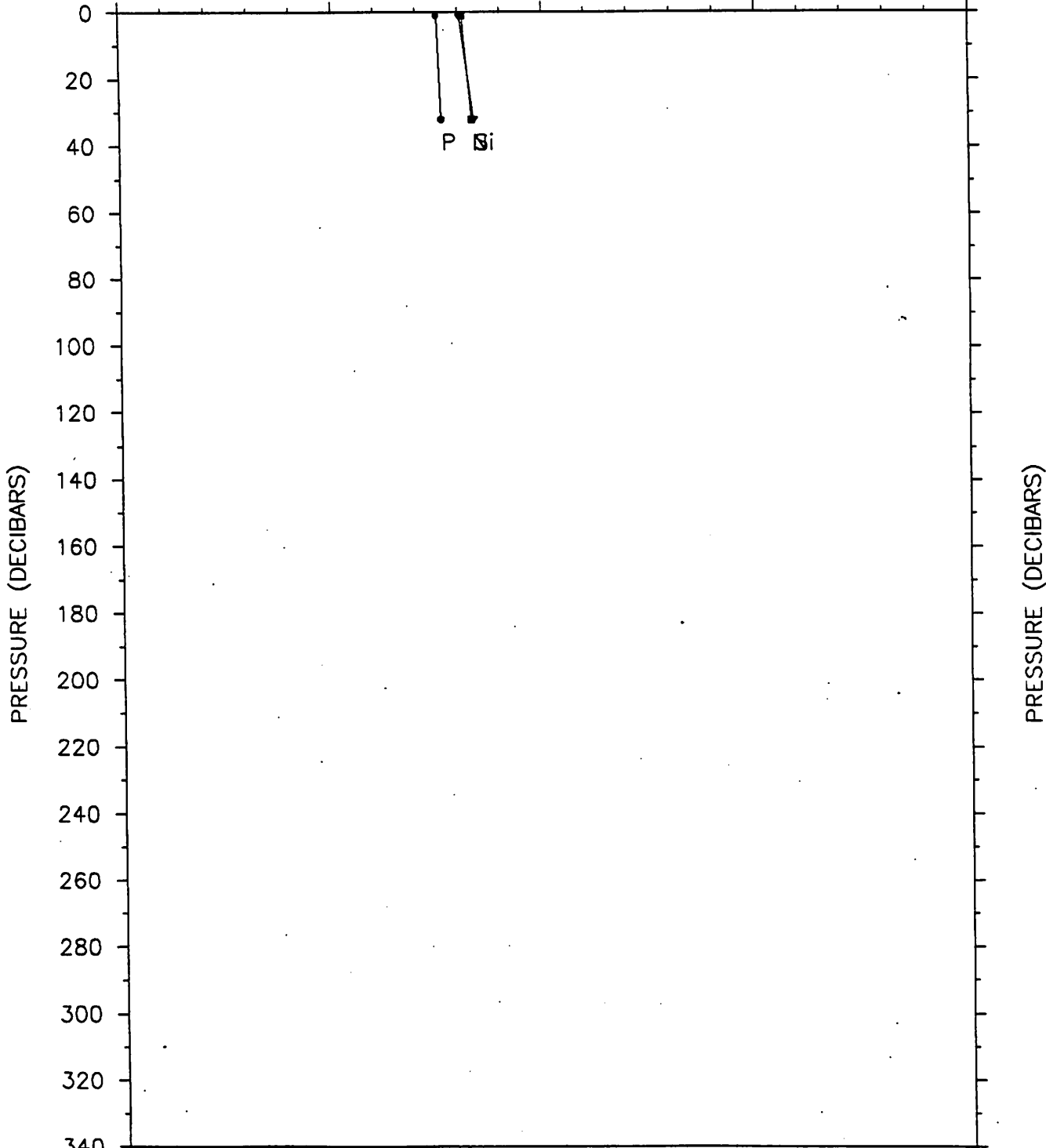
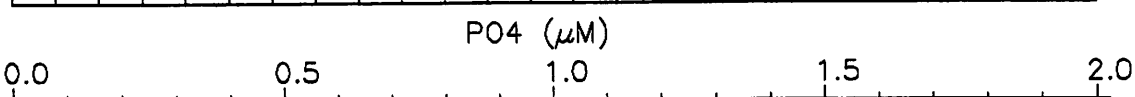
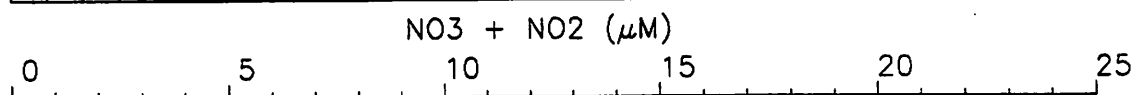
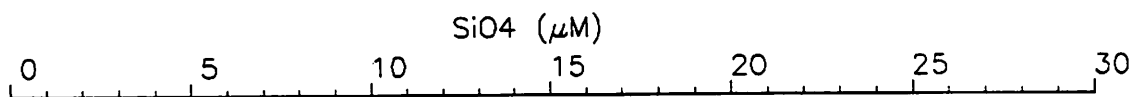
CRUISE: OC181
8 FEB 87
00: 37: 30 GMT

STATION: 34
42 23.50 N
70 54.45 W

0C181A CAST #35

| | | | | | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0.00 | 3.13 | 9.25 | 9.38 | 12.50 | 15.63 | 19.75 | 21.87 | 25.00 | 28.12 | 31.25 | 34.38 | 37.50 | 40.63 | 43.75 | 46.88 | 50.00 |
| 0.00 | 0.05 | 0.10 | 0.15 | 0.20 | 0.25 | 0.30 | 0.35 | 0.40 | 0.45 | 0.50 | 0.55 | 0.60 | 0.65 | 0.70 | 0.75 | 0.80 |
| 0.00 | 0.03 | 1.25 | 1.08 | 2.50 | 3.13 | 3.75 | 4.38 | 5.00 | 5.63 | 6.25 | 6.88 | 7.50 | 8.13 | 8.75 | 9.38 | 10.00 |
| 22.00 | 22.50 | 23.00 | 23.50 | 24.00 | 24.50 | 25.00 | 25.50 | 26.00 | 26.50 | 27.00 | 27.50 | 28.00 | 28.50 | 29.00 | 29.50 | 30.00 |
| 32.00 | 32.25 | 32.50 | 32.75 | 33.00 | 33.25 | 33.50 | 33.75 | 34.00 | 34.25 | 34.50 | 34.75 | 35.00 | 35.25 | 35.50 | 35.75 | 36.00 |



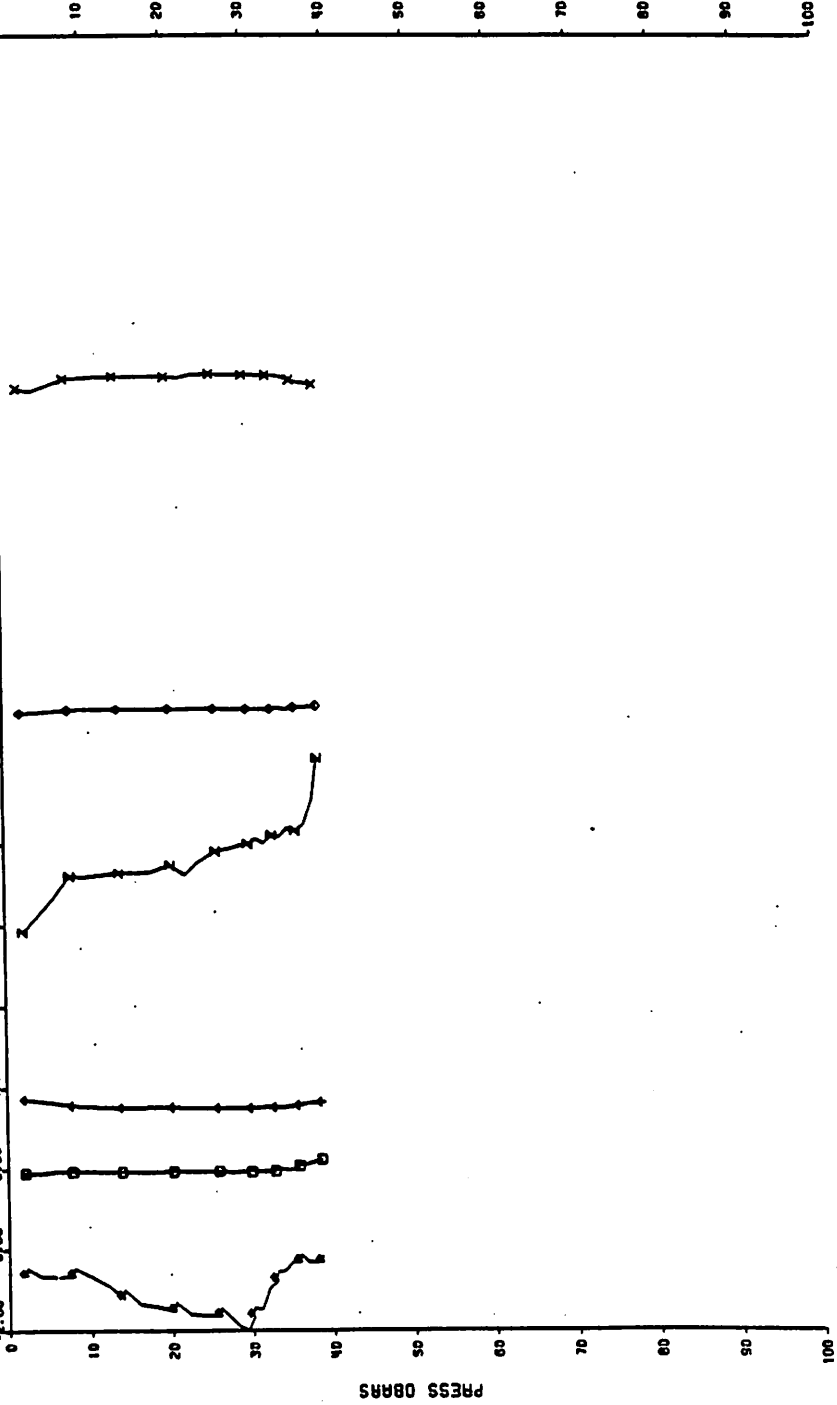


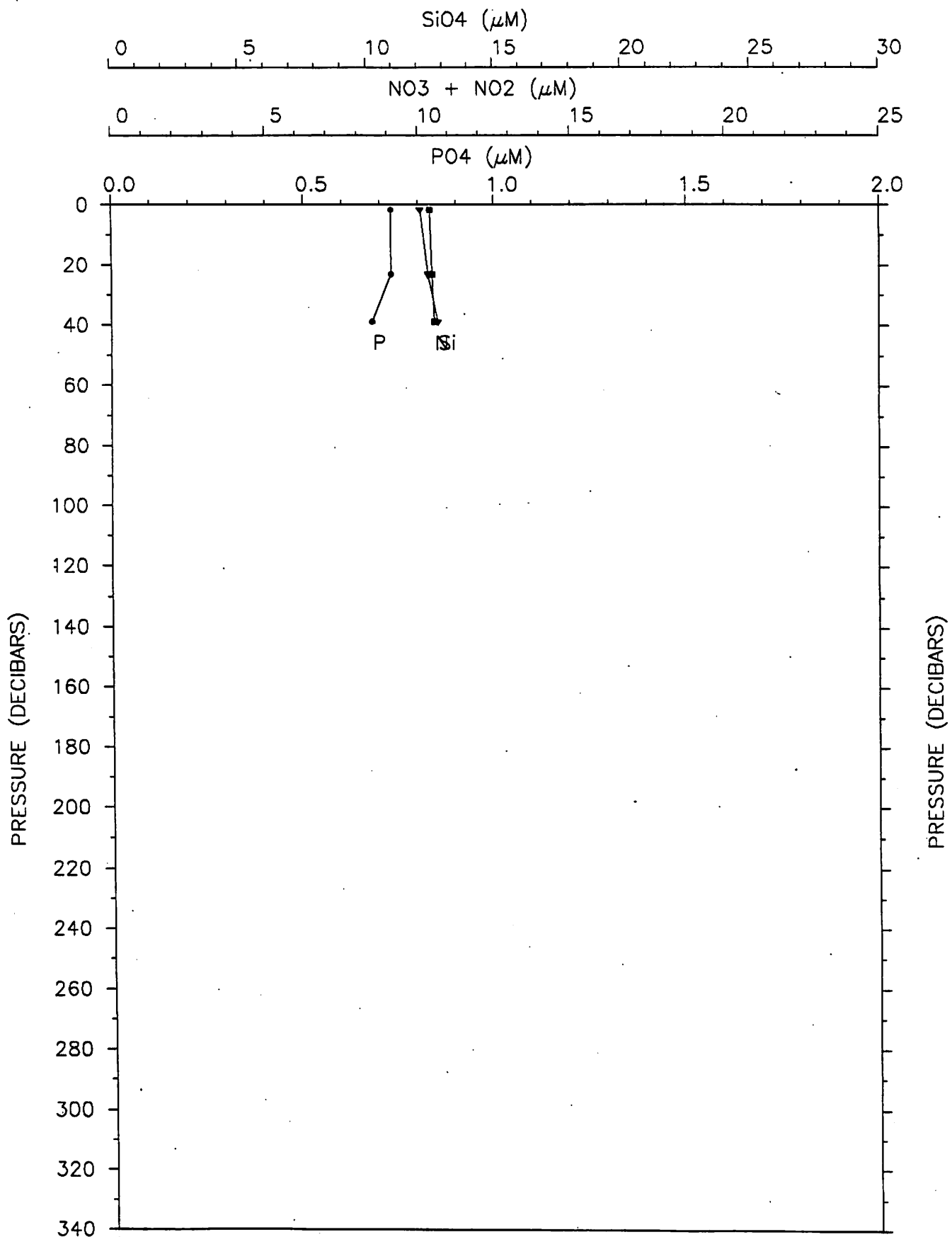
CRUISE: OC181
8 FEB 87
01: 22: 30 GMT

STATION: 35
42 23.47 N
70 50.09 W

0C181U CAST #36

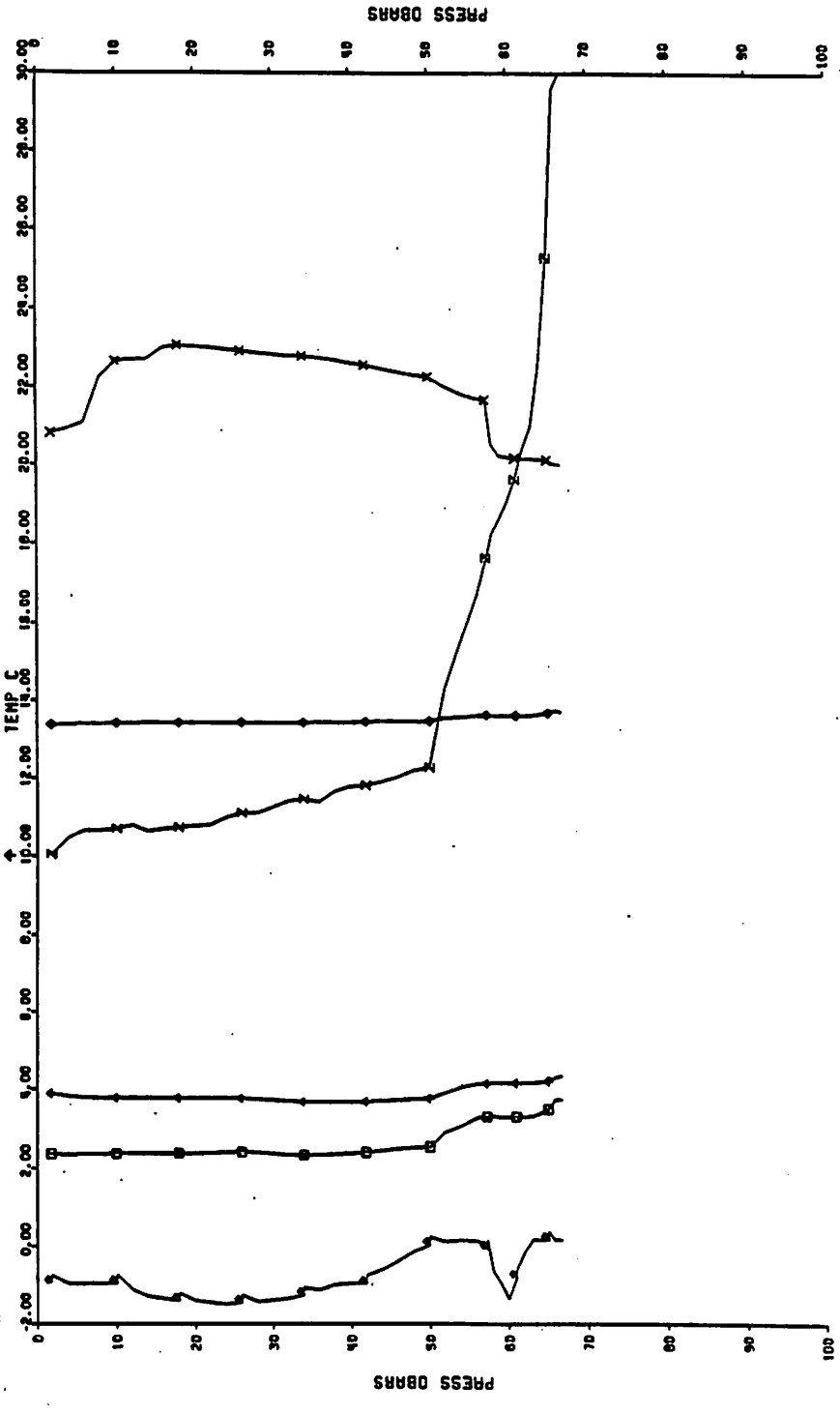
| | | | | | | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0.00 | 3.13 | 0.25 | 0.30 | 12.50 | 15.63 | 18.75 | 21.07 | N CPH | 25.00 | 29.12 | 31.25 | 34.38 | 37.50 | 40.63 | 43.75 | 46.88 | 50.00 |
| 0.00 | 0.05 | 0.10 | 0.15 | 0.20 | 0.25 | 0.30 | 0.35 | RAIN COEFF | 0.40 | 0.45 | 0.50 | 0.55 | 0.60 | 0.65 | 0.70 | 0.75 | 0.80 |
| 0.00 | 0.03 | 1.25 | 1.00 | 2.50 | 3.13 | 2.75 | 4.38 | OXYGEN ML/L | 5.00 | 6.25 | 6.68 | 7.50 | 8.13 | 9.75 | 9.38 | 10.00 | |
| 22.00 | 22.50 | 23.00 | 23.50 | 24.00 | 24.50 | 25.00 | 25.50 | SIGMA-T KG/MM ² | 26.00 | 26.50 | 27.00 | 27.50 | 28.00 | 28.50 | 29.00 | 29.50 | 30.00 |
| 32.00 | 32.25 | 32.50 | 32.75 | 33.00 | 33.25 | 33.50 | 33.75 | SALINITY PSU | 34.00 | 34.25 | 34.50 | 34.75 | 35.00 | 35.25 | 35.50 | 35.75 | 36.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | TEMP C | 14.00 | 18.00 | 19.00 | 20.00 | 22.00 | 24.00 | 28.00 | 28.00 | 30.00 |

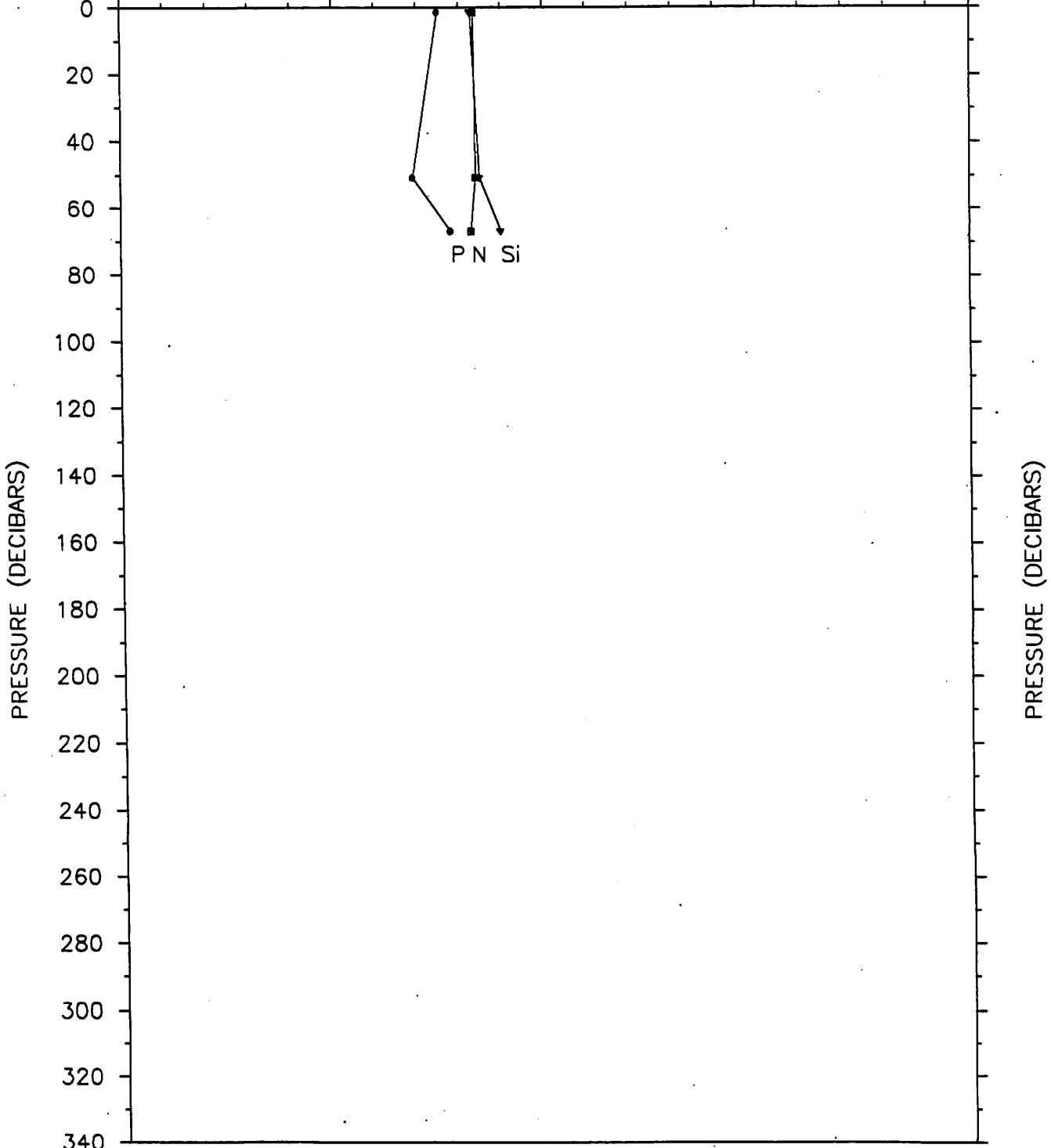
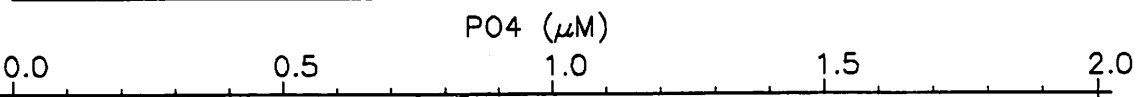
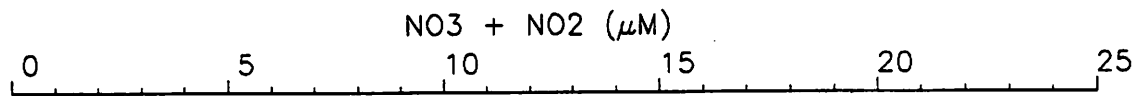
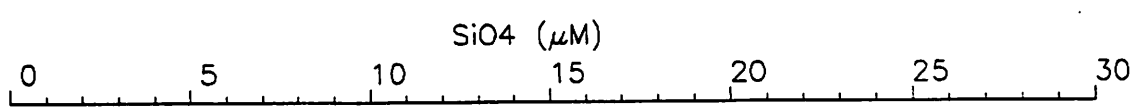




0C181A CAST #37

| | | | | | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0.00 | 2.13 | 6.25 | 9.38 | 12.50 | 15.63 | 18.75 | 21.87 | 25.00 | 28.12 | 31.25 | 34.38 | 37.50 | 40.63 | 43.75 | 46.88 | 50.00 |
| 0.00 | 0.05 | 0.10 | 0.15 | 0.20 | 0.25 | 0.30 | 0.35 | 0.40 | 0.45 | 0.50 | 0.55 | 0.60 | 0.65 | 0.70 | 0.75 | 0.80 |
| 0.00 | 0.63 | 1.25 | 1.88 | 2.50 | 3.13 | 3.75 | 4.38 | 5.00 | 5.63 | 6.25 | 6.88 | 7.50 | 8.13 | 8.75 | 9.38 | 10.00 |
| 22.00 | 22.50 | 23.00 | 23.50 | 24.00 | 24.50 | 25.00 | 25.50 | 26.00 | 26.50 | 27.00 | 27.50 | 28.00 | 28.50 | 29.00 | 29.50 | 30.00 |
| 32.00 | 32.25 | 32.50 | 32.75 | 33.00 | 33.25 | 33.50 | 33.75 | 34.00 | 34.25 | 34.50 | 34.75 | 35.00 | 35.25 | 35.50 | 35.75 | 36.00 |



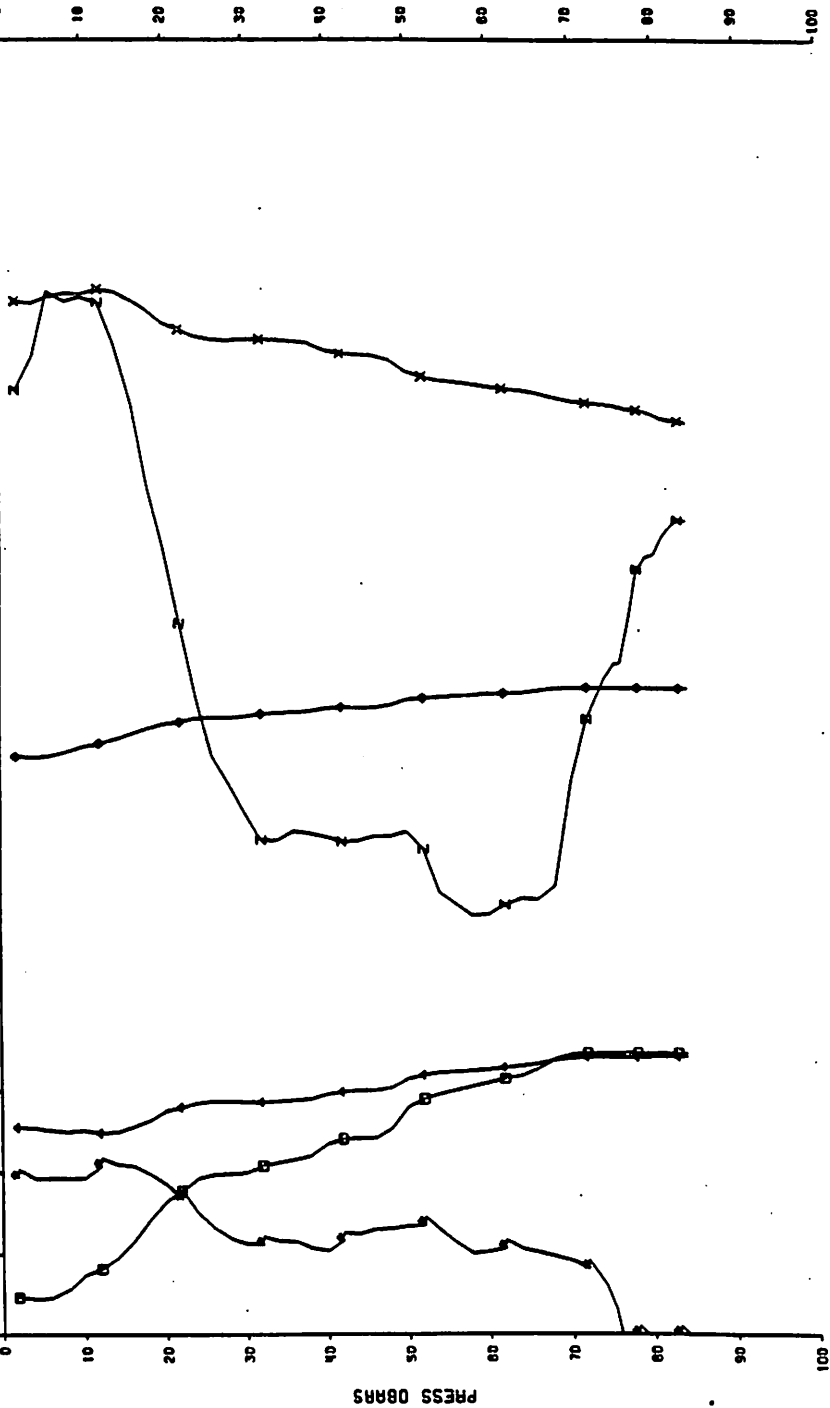


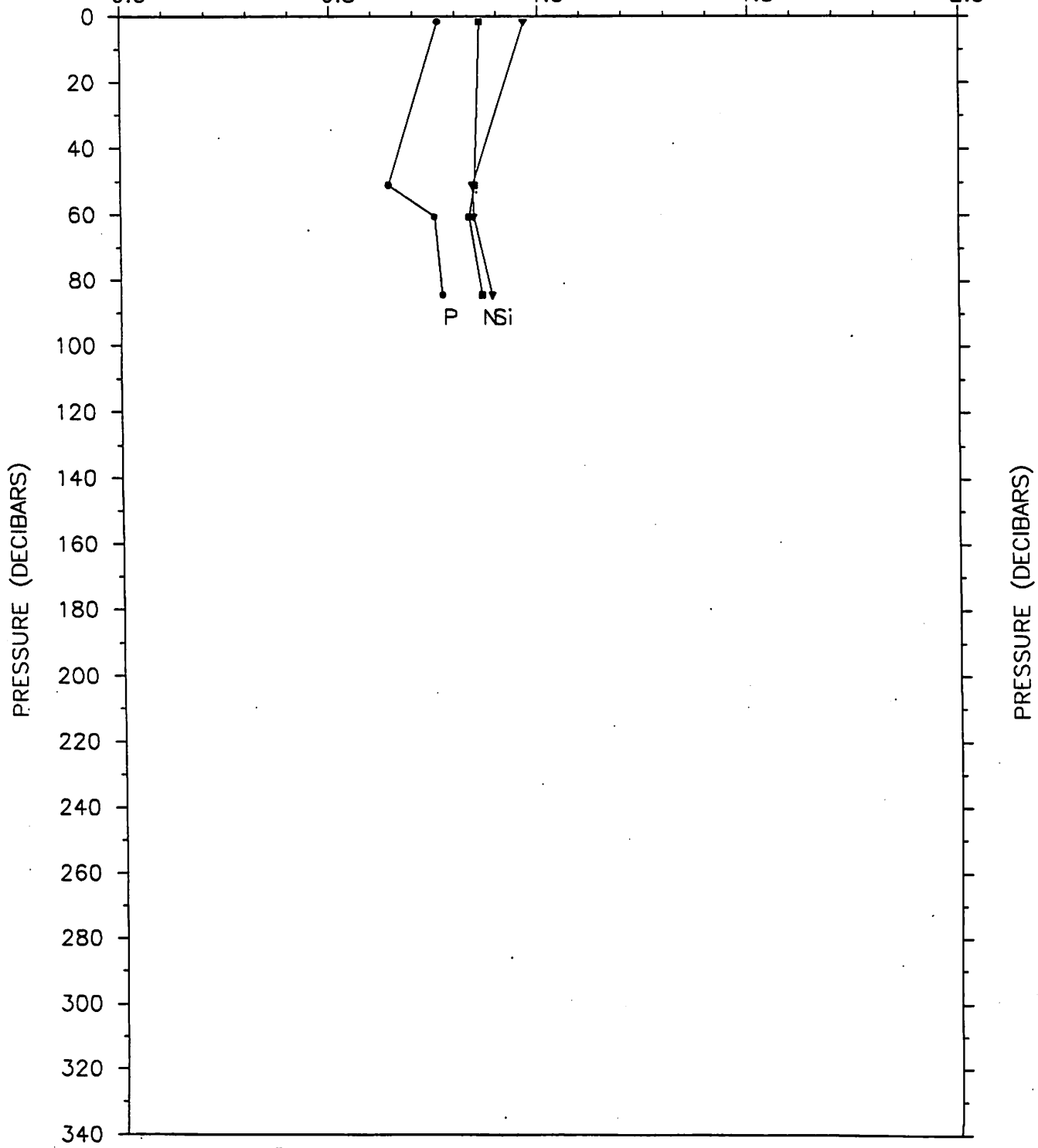
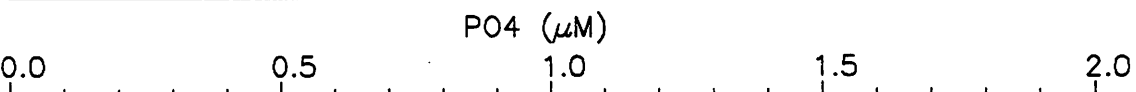
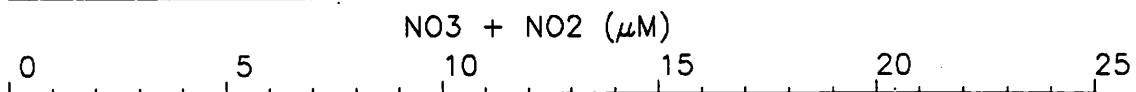
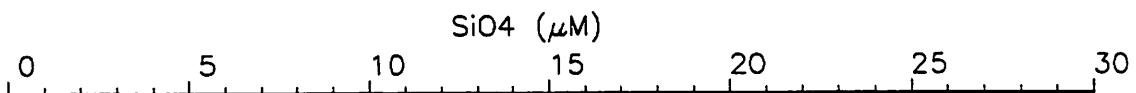
CRUISE: OC181
 8 FEB 87
 02: 22: 30 GMT

STATION: 37
 42 23.47 N
 70 39.92 W

0C191A CAST #38

| | | | | | | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-----------|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0.00 | 3.13 | 0.25 | 0.38 | 12.50 | 15.03 | 19.75 | 21.07 | N CPH | 25.00 | 29.12 | 31.25 | 34.38 | 37.50 | 40.63 | 43.75 | 46.88 | 50.00 |
| 0.00 | 0.05 | 0.10 | 0.15 | 0.20 | 0.25 | 0.30 | 0.35 | RIN COEFF | M ⁻¹ | 0.40 | 0.45 | 0.50 | 0.55 | 0.60 | 0.65 | 0.70 | 0.75 |
| 0.00 | 0.03 | 1.25 | 1.00 | 2.50 | 3.13 | 3.75 | 4.38 | OXYGEN | ML/L | 5.03 | 6.25 | 6.88 | 7.50 | 8.13 | 8.75 | 9.38 | 10.00 |
| 22.00 | 22.50 | 23.00 | 23.50 | 24.00 | 24.50 | 25.00 | 25.50 | SIGMA-T | KG/MM ³ | 26.00 | 26.50 | 27.00 | 27.50 | 28.00 | 28.50 | 29.00 | 29.50 |
| 32.00 | 32.25 | 32.50 | 32.75 | 33.00 | 33.25 | 33.50 | 33.75 | SALINITY | PSU | 34.00 | 34.25 | 34.50 | 34.75 | 35.00 | 35.25 | 35.50 | 35.75 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | TEMP | C | 14.00 | 16.00 | 18.00 | 20.00 | 22.00 | 24.00 | 26.00 | 28.00 |



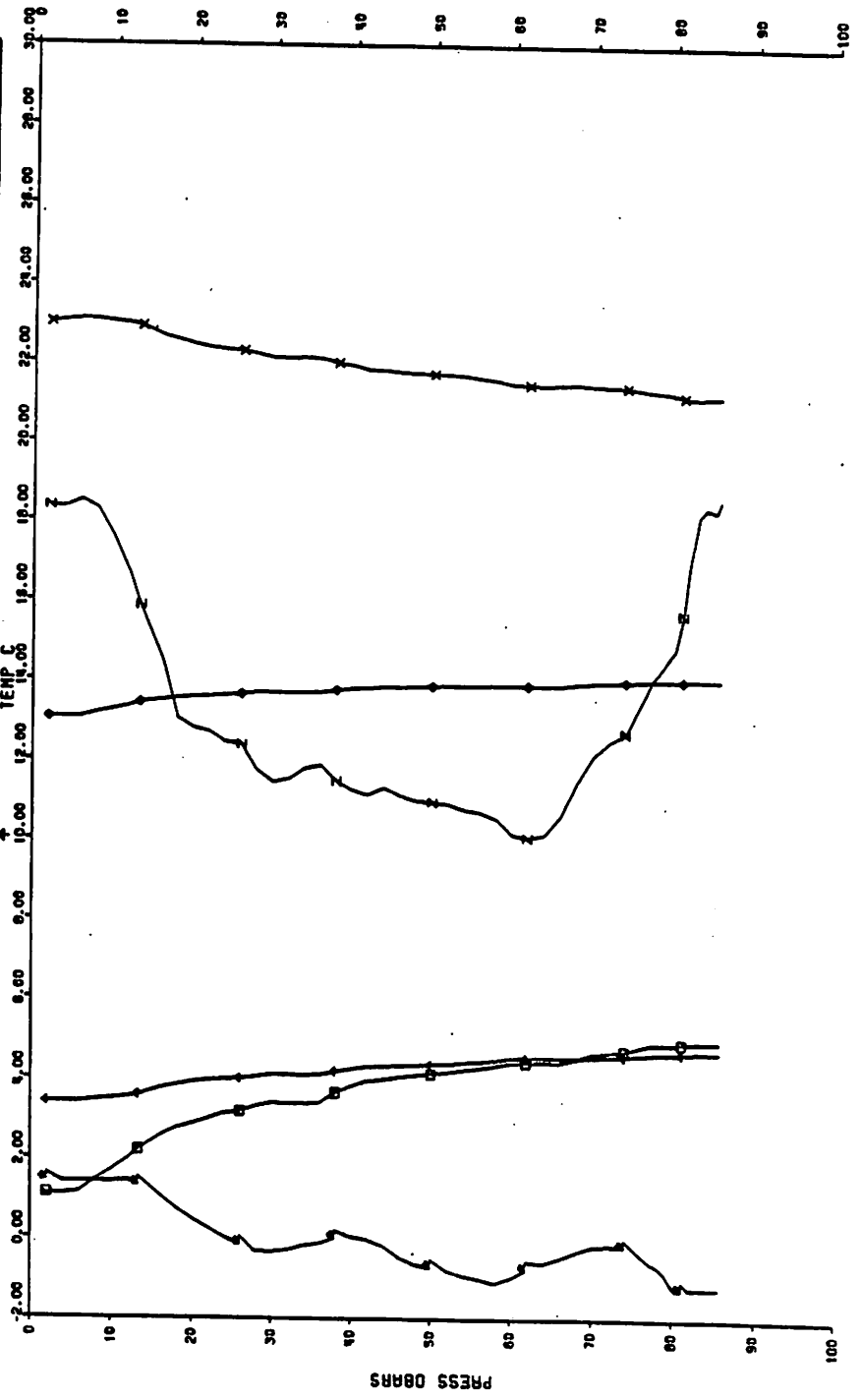


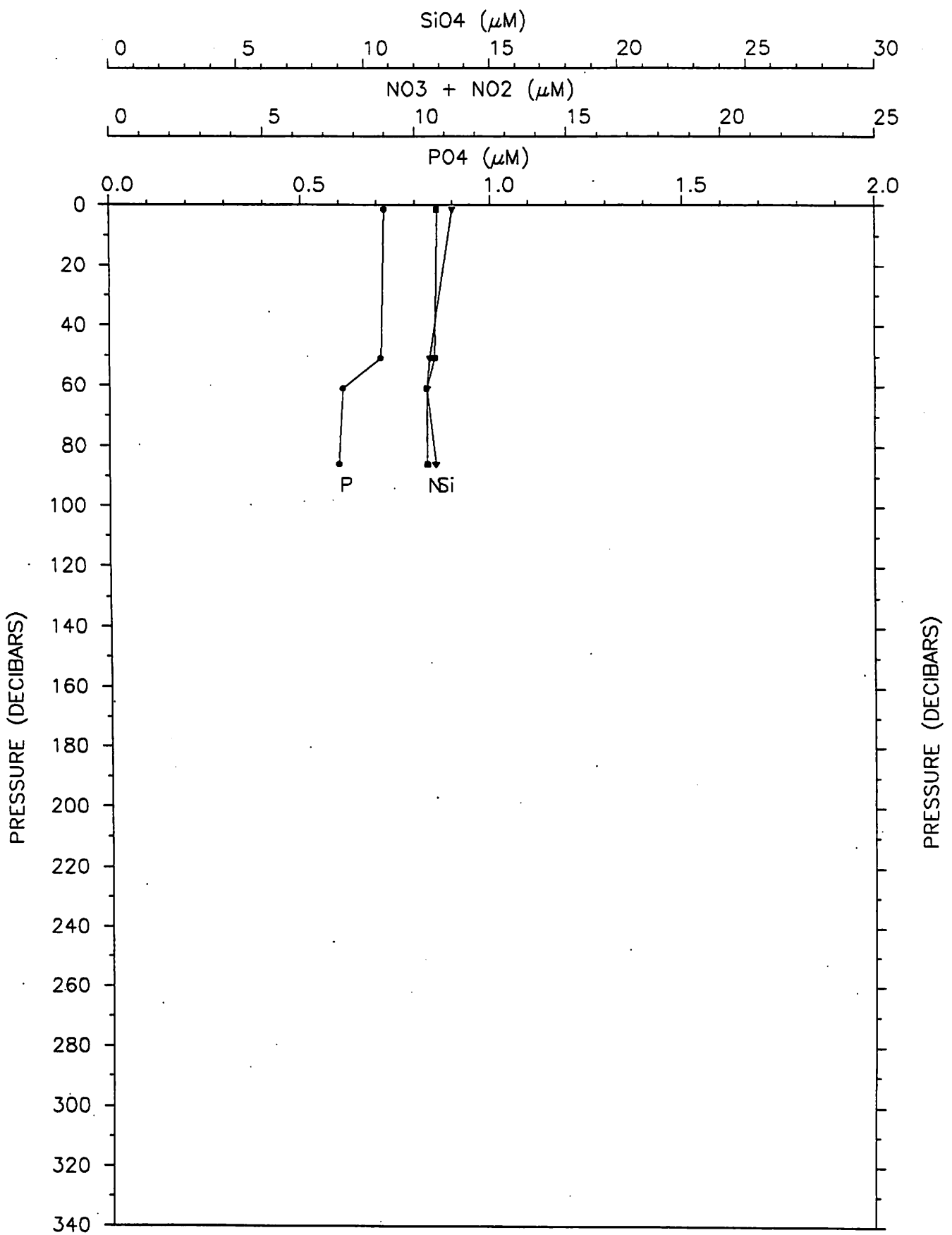
CRUISE: OC181
8 FEB 87
03: 00: 00 GMT

STATION: 38
42 23.41 N
70 34.90 W

0C181B CAST #39

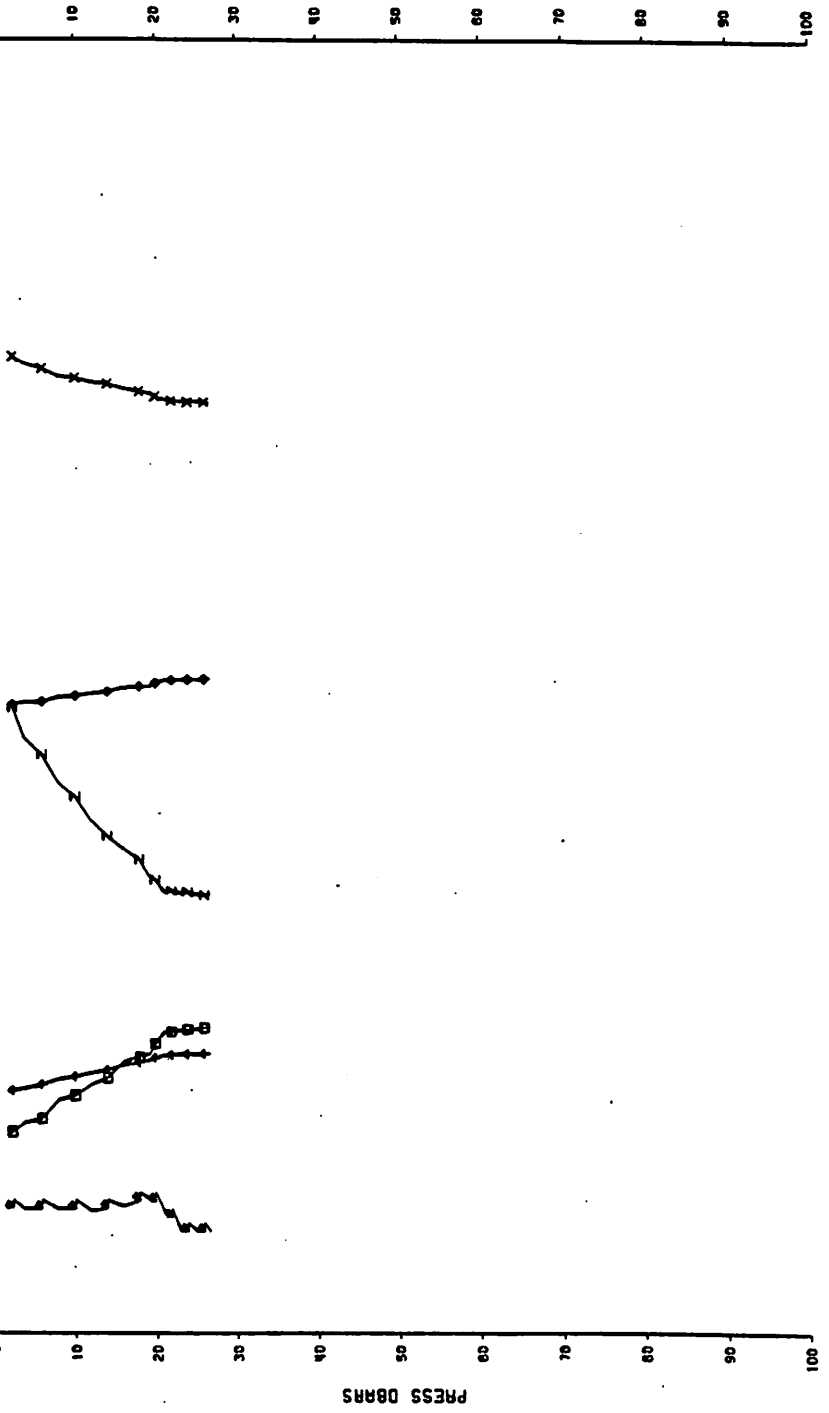
| | | | | | | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|---------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0.00 | 3.13 | 0.25 | 9.38 | 12.50 | 15.63 | 18.75 | 21.87 | M CPH | 25.00 | 28.12 | 31.25 | 34.38 | 37.50 | 40.63 | 43.75 | 46.88 | 50.00 |
| 0.00 | 0.05 | 0.10 | 0.15 | 0.20 | 0.25 | 0.30 | 0.35 | RIN COEFF | 0.40 | 0.45 | 0.50 | 0.55 | 0.60 | 0.65 | 0.70 | 0.75 | 0.80 |
| 0.00 | 0.63 | 1.25 | 1.88 | 2.50 | 3.13 | 3.75 | 4.38 | OXYGEN ML/L | 5.00 | 5.63 | 6.25 | 6.88 | 7.50 | 8.13 | 8.75 | 9.38 | 10.00 |
| 22.00 | 22.50 | 23.00 | 23.50 | 24.00 | 24.50 | 25.00 | 25.50 | SIGMA-T | 26.00 | 26.50 | 27.00 | 27.50 | 28.00 | 28.50 | 29.00 | 29.50 | 30.00 |
| 32.00 | 32.25 | 32.50 | 32.75 | 33.00 | 33.25 | 33.50 | 33.75 | SEILINITY PSU | 34.00 | 34.25 | 34.50 | 34.75 | 35.00 | 35.25 | 35.50 | 35.75 | 36.00 |

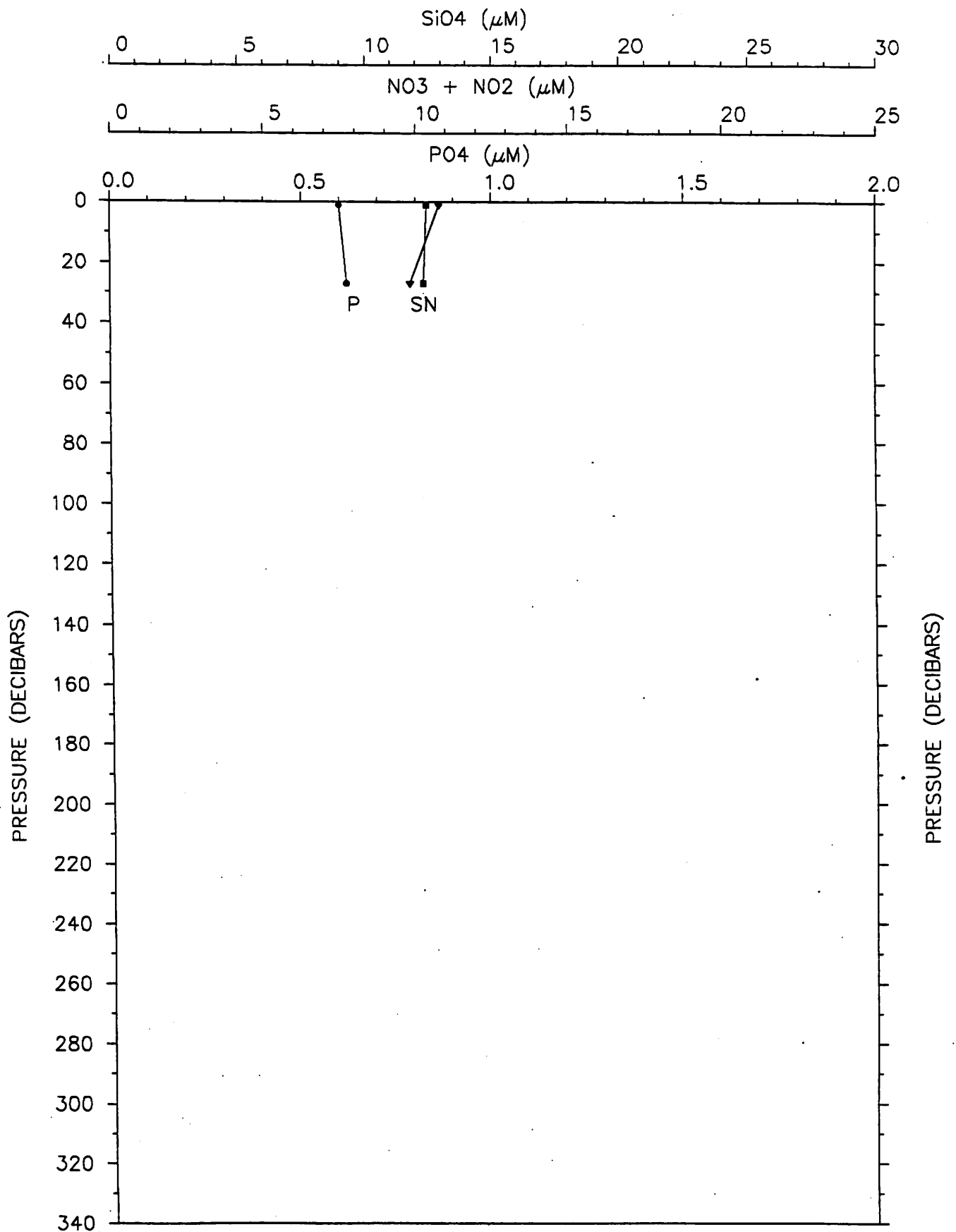




0C181A CAST #40

| | | | | | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0.00 | 3.13 | 0.25 | 0.30 | 12.50 | 15.03 | 19.75 | 21.07 | 25.00 | 28.12 | 31.25 | 34.38 | 37.50 | 40.63 | 43.75 | 46.88 | 50.00 |
| 0.00 | 0.05 | 0.10 | 0.15 | 0.20 | 0.25 | 0.30 | 0.35 | 0.40 | 0.45 | 0.50 | 0.55 | 0.60 | 0.65 | 0.70 | 0.75 | 0.80 |
| 0.00 | 0.03 | 1.25 | 1.00 | 2.50 | 3.13 | 5.75 | 9.38 | 5.00 | 5.63 | 6.25 | 6.88 | 7.50 | 8.13 | 8.75 | 9.38 | 10.00 |
| 22.00 | 22.50 | 23.00 | 23.50 | 24.00 | 24.50 | 25.00 | 25.50 | 26.00 | 26.50 | 27.00 | 27.50 | 28.00 | 28.50 | 29.00 | 29.50 | 30.00 |
| 32.00 | 32.25 | 32.50 | 32.75 | 33.00 | 33.25 | 33.50 | 33.75 | 34.00 | 34.25 | 34.50 | 34.75 | 35.00 | 35.25 | 35.50 | 35.75 | 36.00 |
| | | | | | | | | | | | | | | | | |



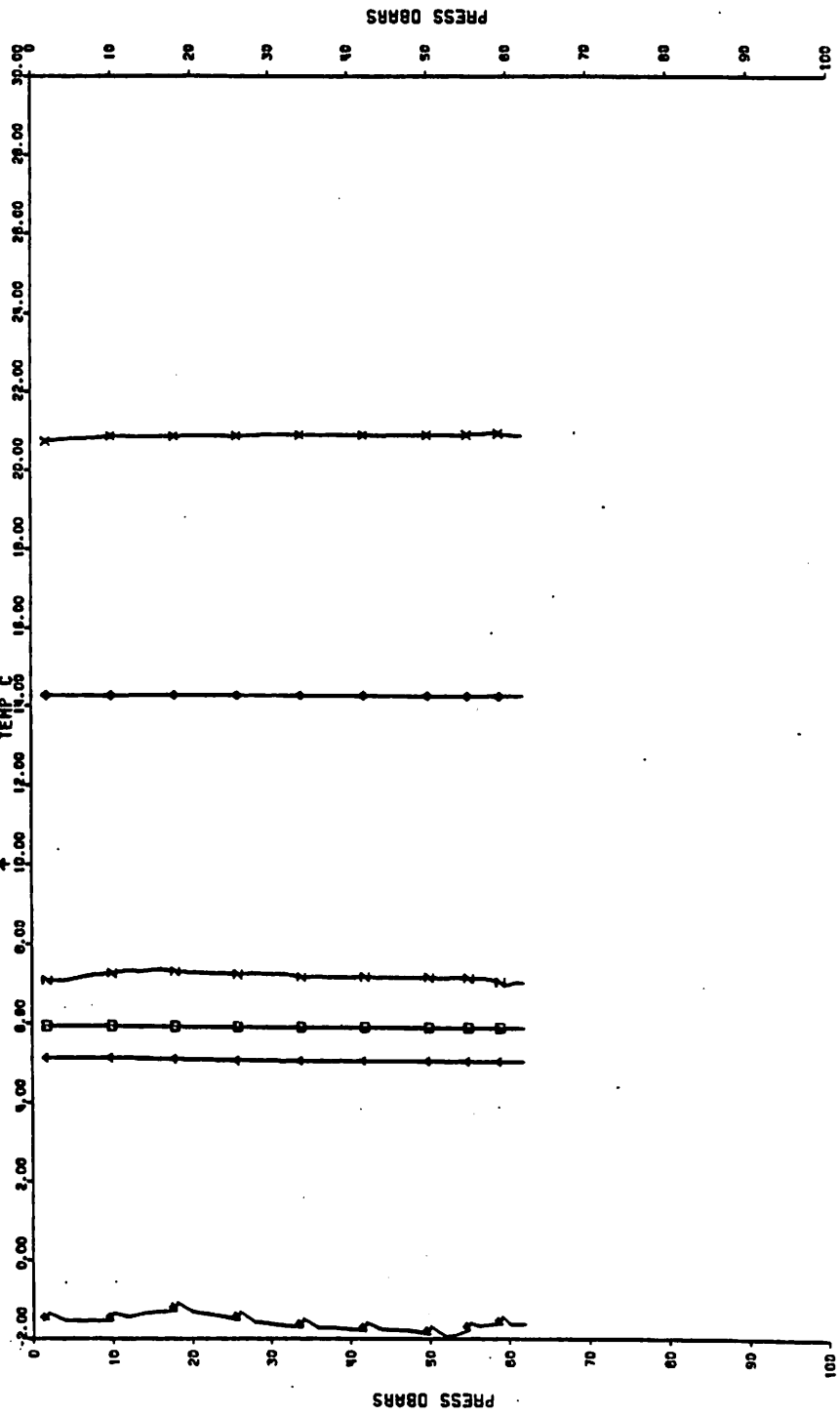


CRUISE: OC181
 8 FEB 87
 04: 15: 00 GMT

STATION: 40
 42 23.45 N
 70 24.82 W

OC181A CAST #41

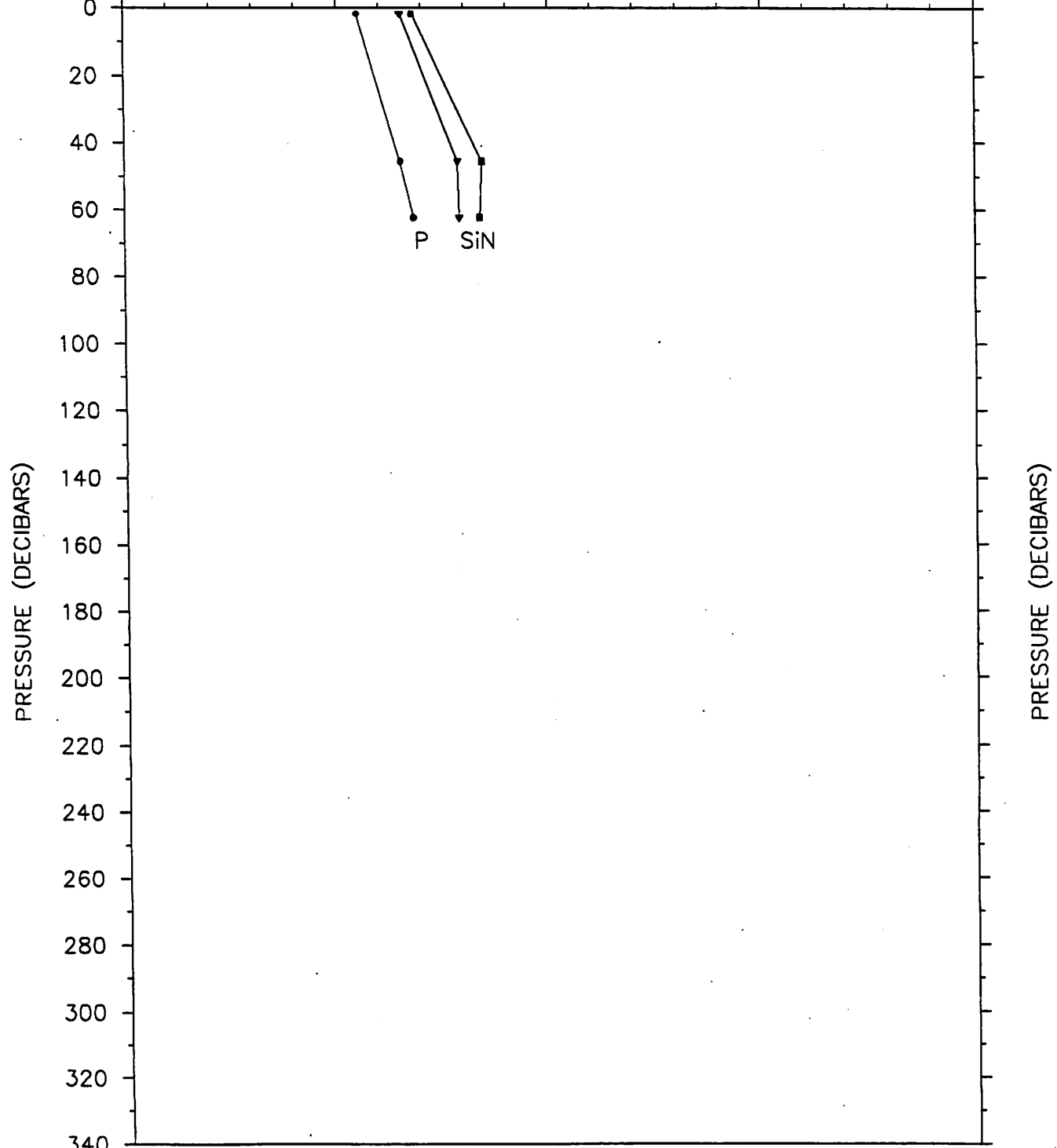
| | | | | | | | | | | | | | | | | |
|-----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0.00 | 3.13 | 0.25 | 0.26 | 12.50 | 15.03 | 18.75 | 21.07 | 25.00 | 28.12 | 31.25 | 34.38 | 37.50 | 40.63 | 43.75 | 46.88 | 50.00 |
| * N CPH | | | | | | | | | | | | | | | | |
| 0.00 | 0.05 | 0.10 | 0.15 | 0.20 | 0.25 | 0.30 | 0.35 | 0.40 | 0.45 | 0.50 | 0.55 | 0.60 | 0.65 | 0.70 | 0.75 | 0.80 |
| Z RIN COEFF M ⁻¹ | | | | | | | | | | | | | | | | |
| 0.00 | 0.03 | 1.25 | 1.08 | 2.50 | 3.13 | 3.75 | 4.38 | 5.00 | 5.63 | 6.25 | 6.88 | 7.50 | 8.13 | 8.75 | 9.38 | 10.00 |
| X OXYGEN ML/L | | | | | | | | | | | | | | | | |
| 22.00 | 22.50 | 23.08 | 23.50 | 24.00 | 24.50 | 25.00 | 25.50 | 26.00 | 26.50 | 27.00 | 27.50 | 28.00 | 28.50 | 29.00 | 29.50 | 30.00 |
| ◇ SIGHN-T KG/M ³ | | | | | | | | | | | | | | | | |
| 32.00 | 32.25 | 32.50 | 32.75 | 33.00 | 33.25 | 33.50 | 33.75 | 34.00 | 34.25 | 34.50 | 34.75 | 35.00 | 35.25 | 35.50 | 35.75 | 36.00 |
| □ SOLINITY PSU | | | | | | | | | | | | | | | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ↑ TEMP C | | | | | | | | | | | | | | | | |



SiO4 (μM)
0 5 10 15 20 25 30

NO3 + NO2 (μM)
0 5 10 15 20 25

PO4 (μM)
0.0 0.5 1.0 1.5 2.0

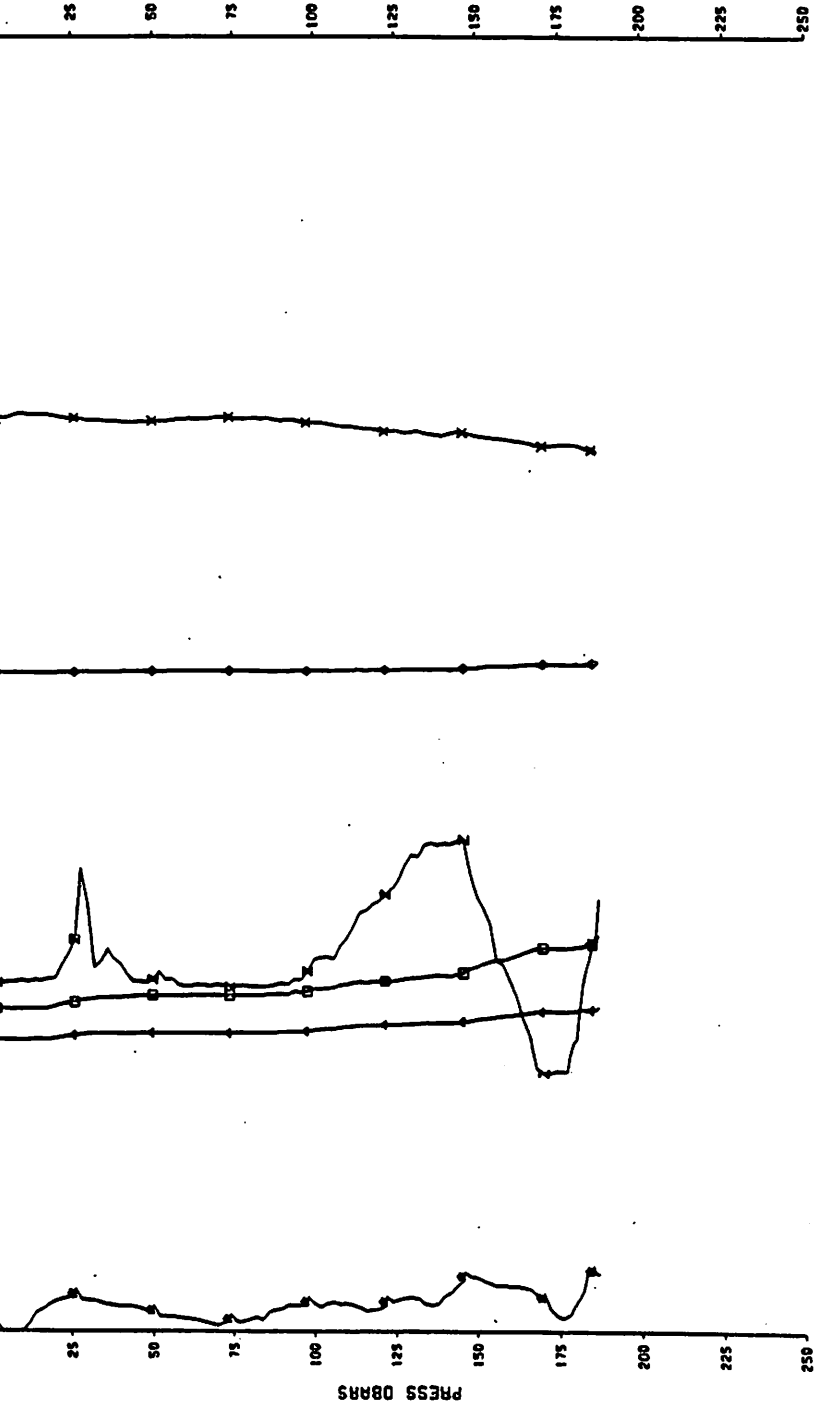


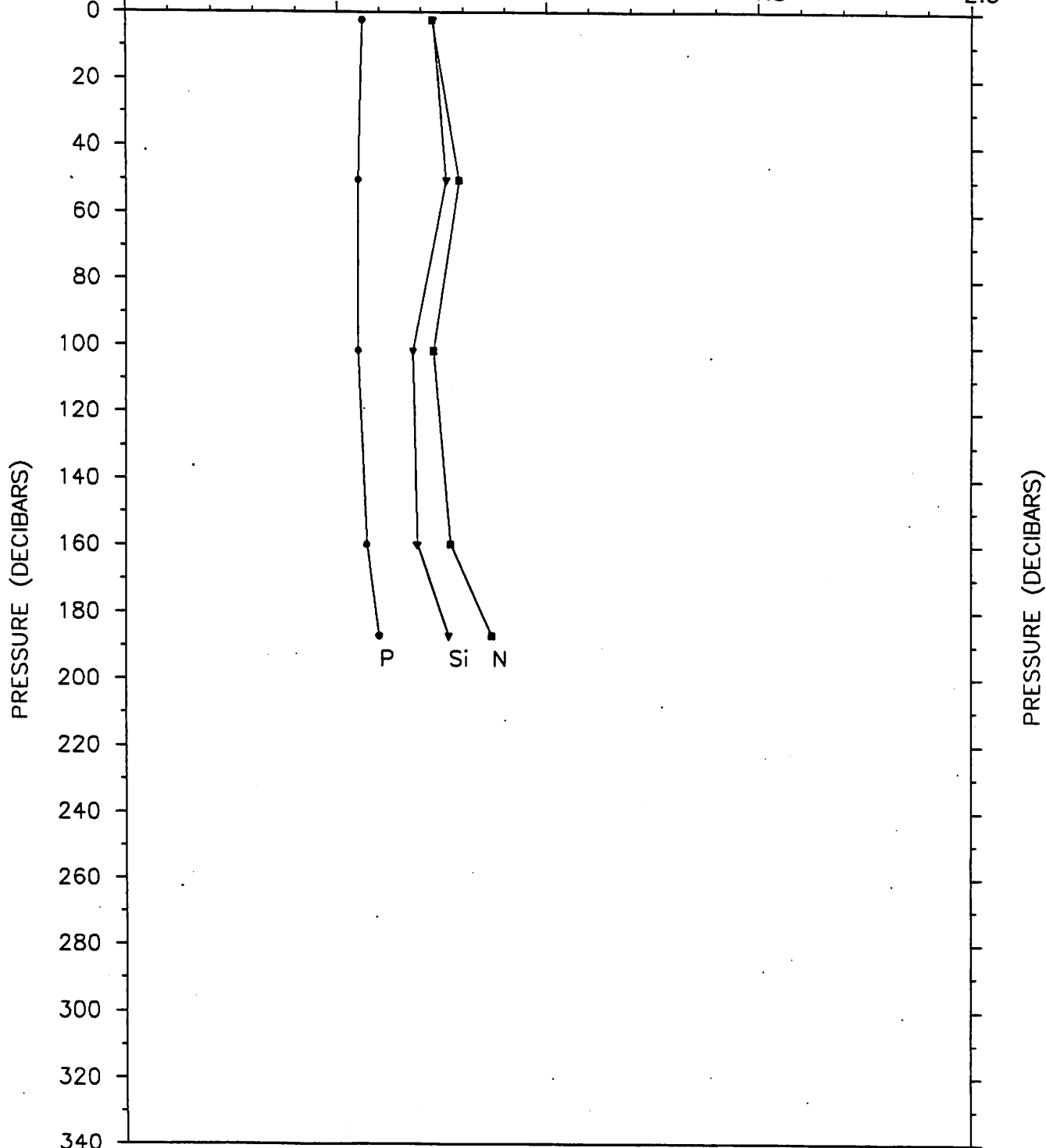
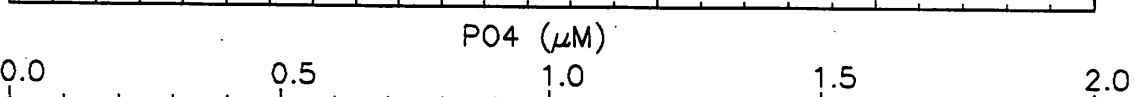
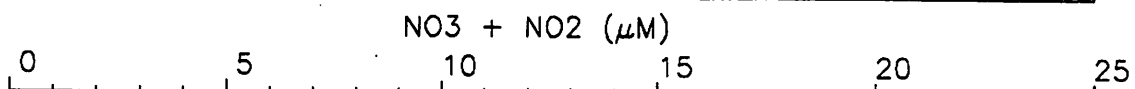
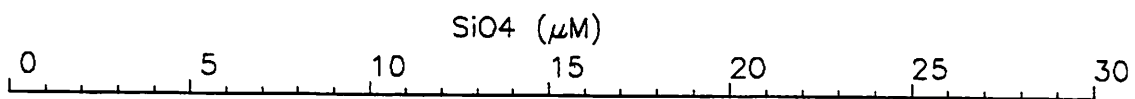
CRUISE: OC181
8 FEB 87
05: 15: 00 GMT

STATION: 41
42 24.97 N
70 14.12 W

0C181A CAST #42

| | | | | | | | | | | | | | | | | |
|-----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0.00 | 3.13 | 8.25 | 9.38 | 12.50 | 15.63 | 18.75 | 21.87 | 25.00 | 28.12 | 31.25 | 34.38 | 37.50 | 40.63 | 43.75 | 46.88 | 50.00 |
| * N CPH | | | | | | | | | | | | | | | | |
| 0.00 | 0.05 | 0.10 | 0.15 | 0.20 | 0.25 | 0.30 | 0.35 | 0.40 | 0.45 | 0.50 | 0.55 | 0.60 | 0.65 | 0.70 | 0.75 | 0.80 |
| Z ATN COEFF M ⁻¹ | | | | | | | | | | | | | | | | |
| 0.00 | 0.03 | 1.25 | 1.08 | 2.50 | 3.13 | 3.75 | 4.38 | 5.00 | 5.63 | 6.25 | 6.88 | 7.50 | 8.13 | 8.75 | 9.38 | 10.00 |
| X OXYGEN ML/L | | | | | | | | | | | | | | | | |
| 22.00 | 22.50 | 23.00 | 23.50 | 24.00 | 24.50 | 25.00 | 25.50 | 26.00 | 26.50 | 27.00 | 27.50 | 28.00 | 28.50 | 29.00 | 29.50 | 30.00 |
| ◇ SIGHA-T KG/MHW3 | | | | | | | | | | | | | | | | |
| 32.00 | 32.25 | 32.50 | 32.75 | 33.00 | 33.25 | 33.50 | 33.75 | 34.00 | 34.25 | 34.50 | 34.75 | 35.00 | 35.25 | 35.50 | 35.75 | 36.00 |
| □ SALINITY PSU | | | | | | | | | | | | | | | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ↑ TEMP C | | | | | | | | | | | | | | | | |



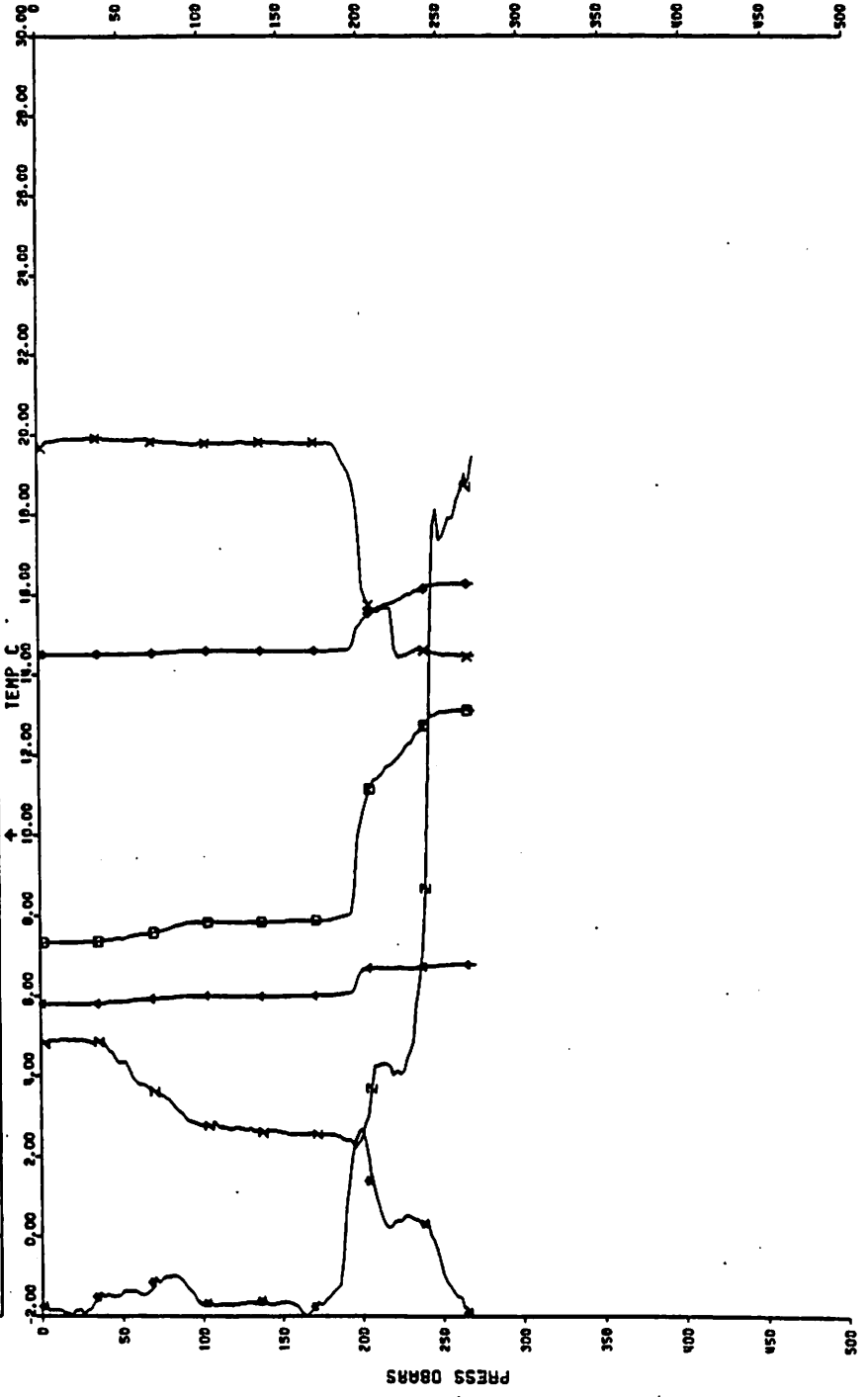


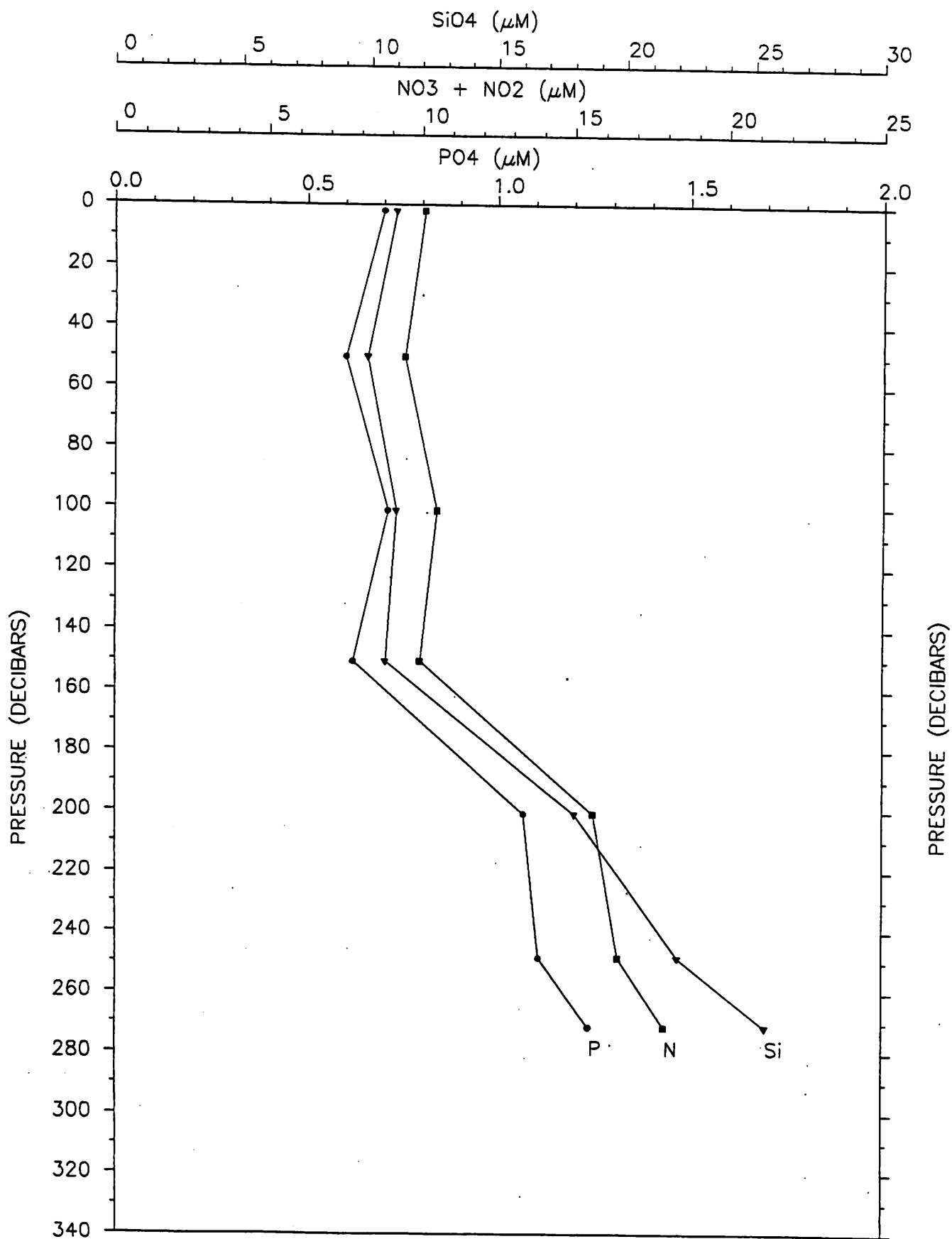
CRUISE: OC181
8 FEB 87
06: 37: 30 GMT

STATION: 42
42 26.99 N
70 00.01 W

0C181B CAST #43

| | | | | | | | | | | | | | | | | |
|---------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0.00 | 3.13 | 0.25 | 0.38 | 12.50 | 15.63 | 18.75 | 21.87 | 25.00 | 28.12 | 31.25 | 34.38 | 37.50 | 40.63 | 43.75 | 46.88 | 50.00 |
| M CPH | | | | | | | | | | | | | | | | |
| 0.00 | 0.05 | 0.10 | 0.15 | 0.20 | 0.25 | 0.30 | 0.35 | 0.40 | 0.45 | 0.50 | 0.55 | 0.60 | 0.65 | 0.70 | 0.75 | 0.80 |
| RAIN COEFF M- | | | | | | | | | | | | | | | | |
| 0.00 | 0.65 | 1.25 | 1.88 | 2.50 | 3.13 | 3.75 | 4.38 | 5.00 | 5.63 | 6.25 | 6.88 | 7.50 | 8.13 | 8.75 | 9.38 | 10.00 |
| OXYGEN ML/L | | | | | | | | | | | | | | | | |
| 22.00 | 22.50 | 23.00 | 23.50 | 24.00 | 24.50 | 25.00 | 25.50 | 26.00 | 26.50 | 27.00 | 27.50 | 28.00 | 28.50 | 29.00 | 29.50 | 30.00 |
| SICMR-T KG/M ³ | | | | | | | | | | | | | | | | |
| 32.00 | 32.25 | 32.50 | 32.75 | 33.00 | 33.25 | 33.50 | 33.75 | 34.00 | 34.25 | 34.50 | 34.75 | 35.00 | 35.25 | 35.50 | 35.75 | 36.00 |
| SALINITY PSU | | | | | | | | | | | | | | | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TEMP C | | | | | | | | | | | | | | | | |



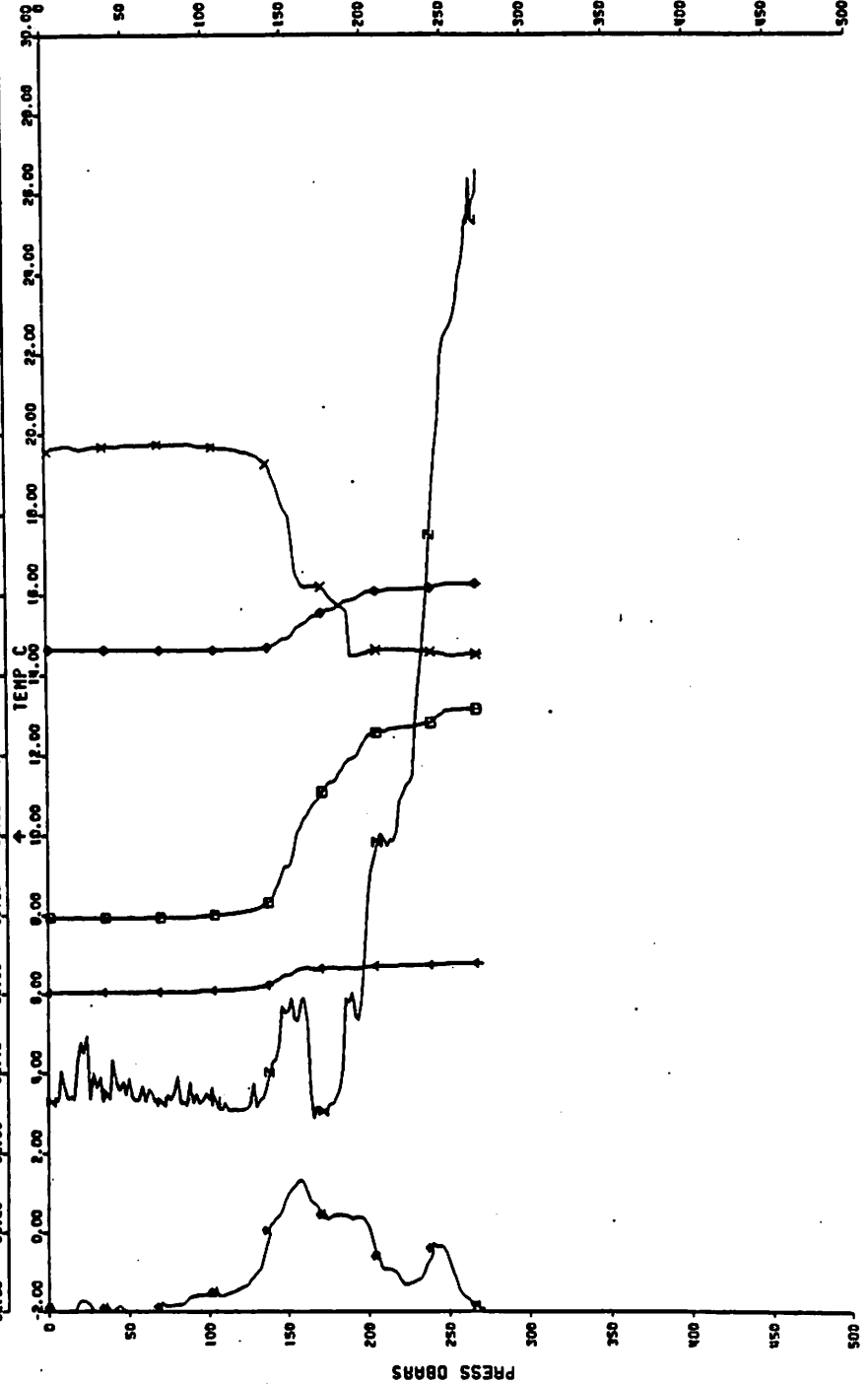


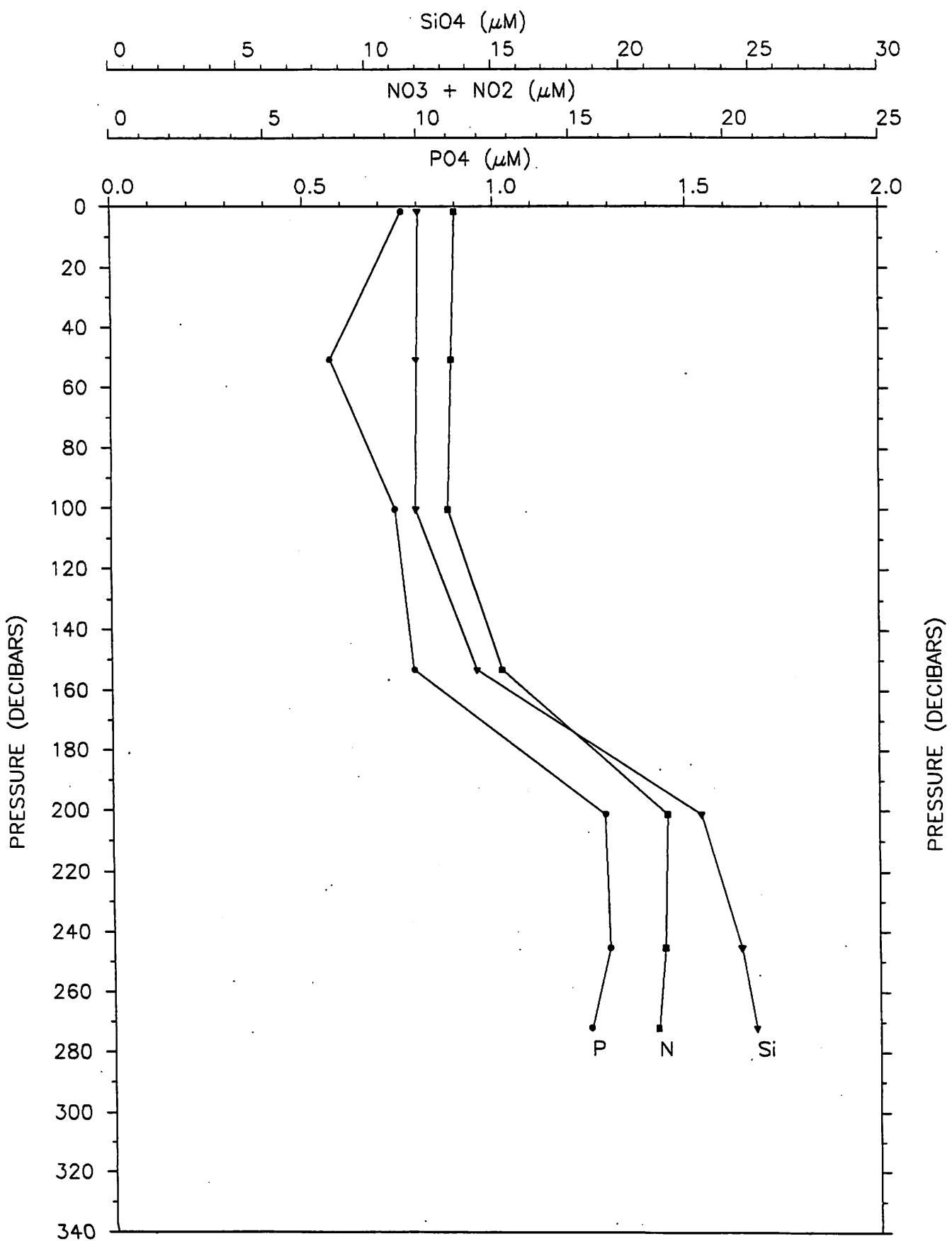
CRUISE: OC181
 8 FEB 87
 08: 00: 00 GMT

STATION: 43
 42 29.01 N
 69 45.03 W

0C181B CAST #44

| | | | | | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0.00 | 3.13 | 6.25 | 9.38 | 12.50 | 15.63 | 18.75 | 21.87 | 25.00 | 28.12 | 31.25 | 34.38 | 37.50 | 40.63 | 43.75 | 46.88 | 50.00 |
| 0.00 | 0.05 | 0.10 | 0.15 | 0.20 | 0.25 | 0.30 | 0.35 | 0.40 | 0.45 | 0.50 | 0.55 | 0.60 | 0.65 | 0.70 | 0.75 | 0.80 |
| 0.00 | 0.63 | 1.25 | 1.88 | 2.50 | 3.13 | 3.75 | 4.38 | 5.00 | 5.63 | 6.25 | 6.88 | 7.50 | 8.13 | 8.75 | 9.38 | 10.00 |
| 22.00 | 22.50 | 23.00 | 23.50 | 24.00 | 24.50 | 25.00 | 25.50 | 26.00 | 26.50 | 27.00 | 27.50 | 28.00 | 28.50 | 29.00 | 29.50 | 30.00 |
| 32.00 | 32.25 | 32.50 | 32.75 | 33.00 | 33.25 | 33.50 | 33.75 | 34.00 | 34.25 | 34.50 | 34.75 | 35.00 | 35.25 | 35.50 | 35.75 | 36.00 |

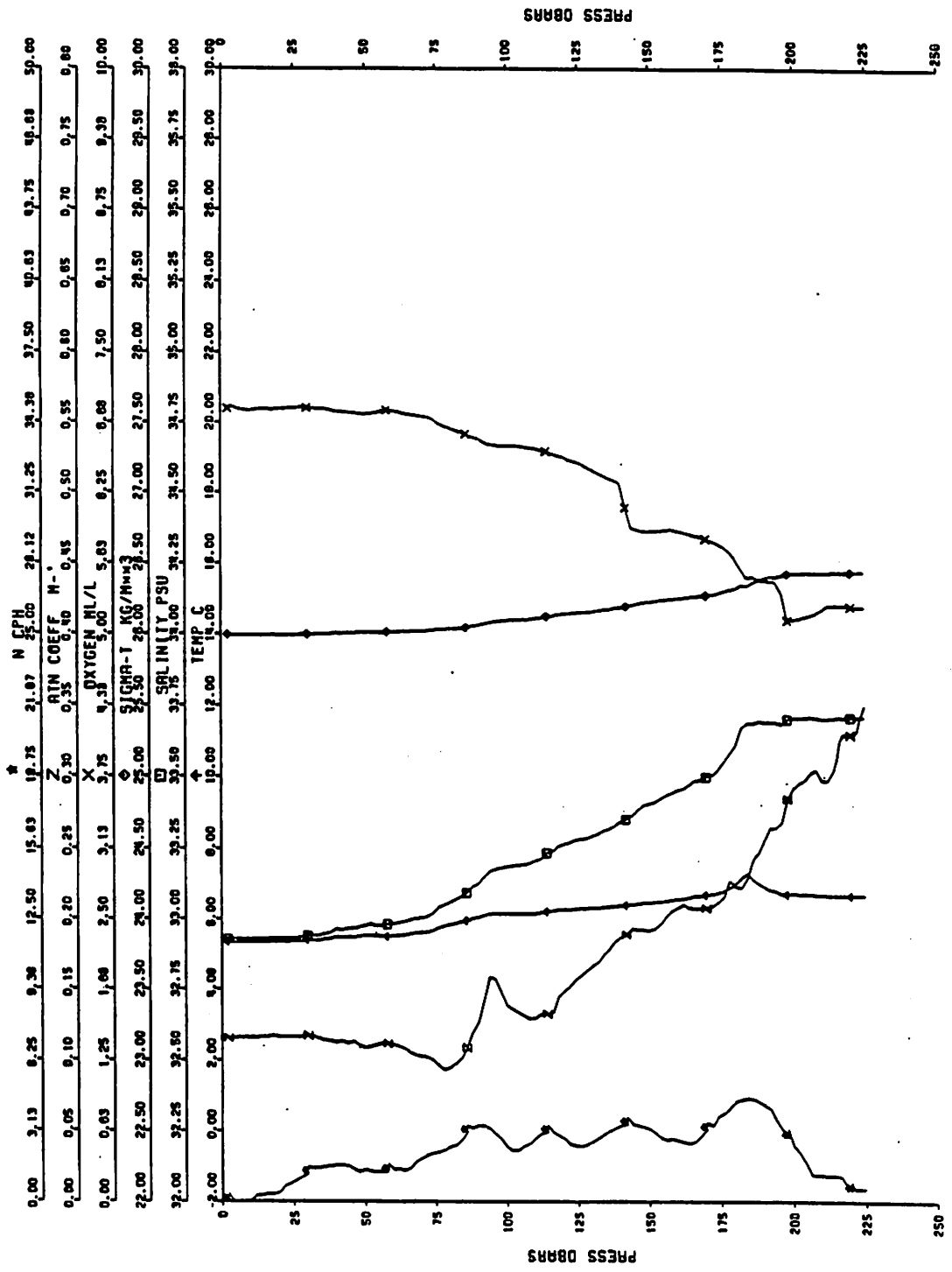




CRUISE: OC181.
 8 FEB 87
 09: 52: 30 GMT

STATION: 44
 42 31.04 N
 69 29.54 W

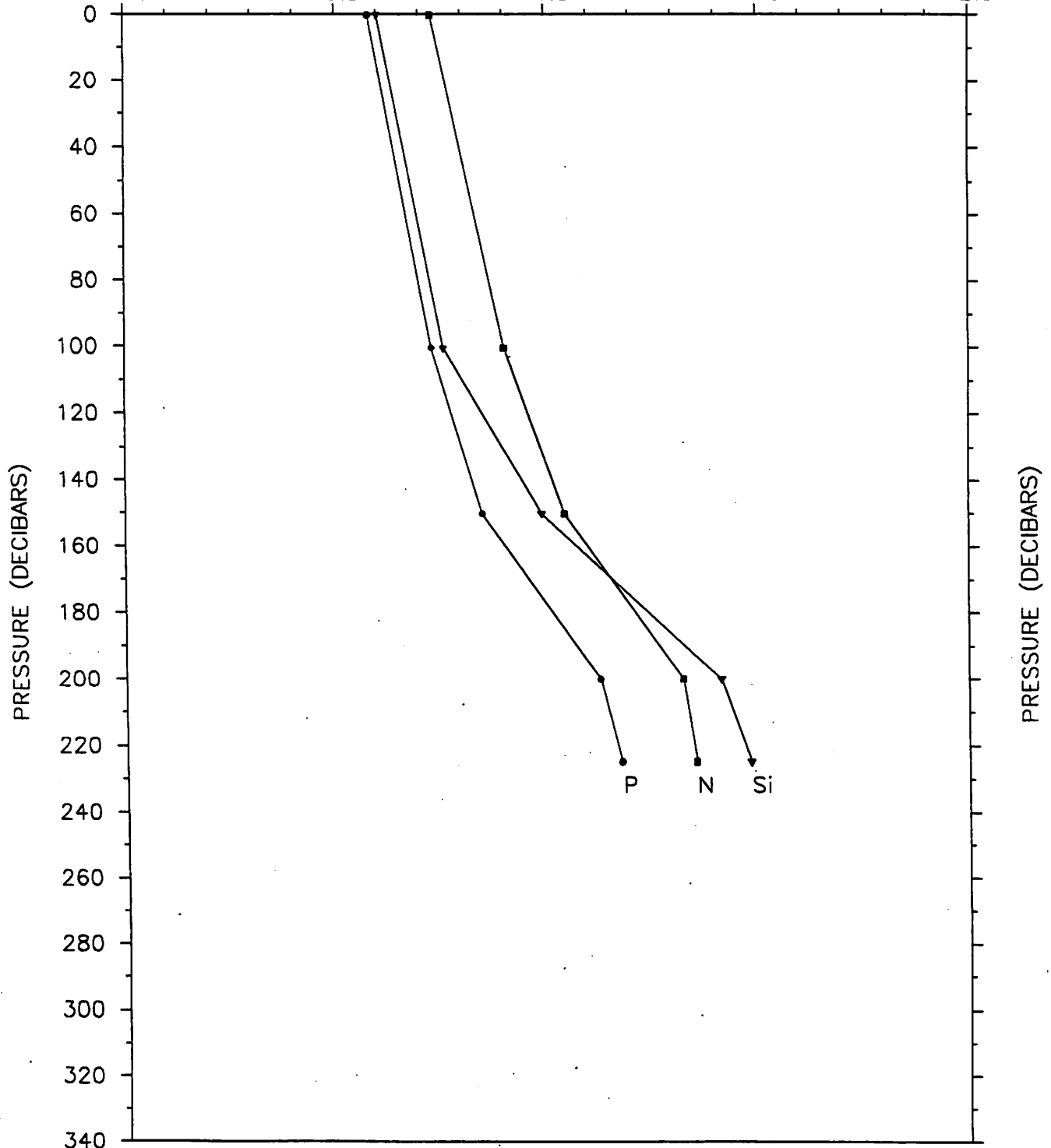
0C181A CAST #45



SiO4 (μM)
0 5 10 15 20 25 30

NO3 + NO2 (μM)
0 5 10 15 20 25

PO4 (μM)
0.0 0.5 1.0 1.5 2.0

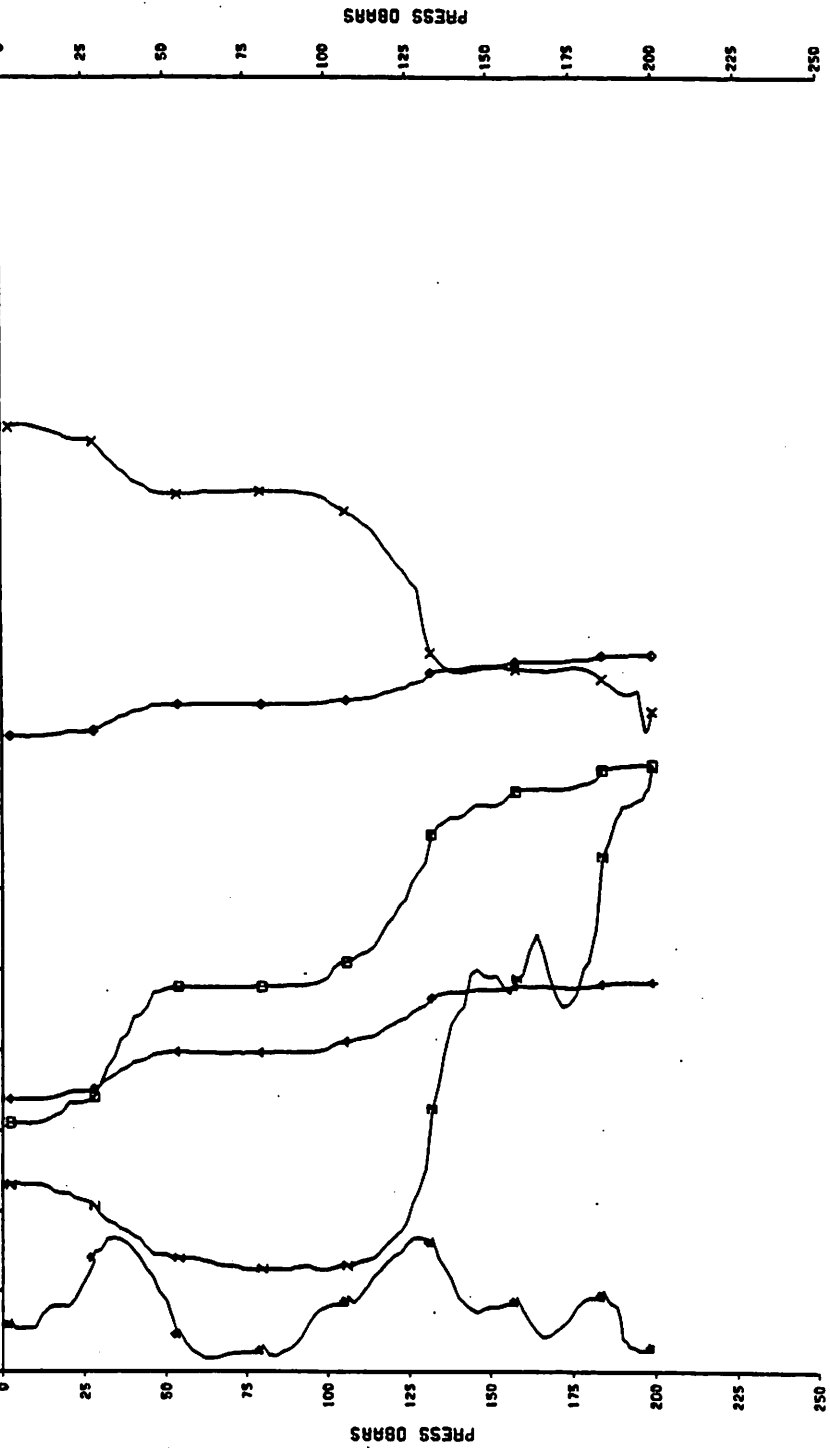


CRUISE: OC181
8 FEB 87
11: 37: 30 GMT

STATION: 45
42 33.00 N
69 14.93 W

0C181A CAST #46

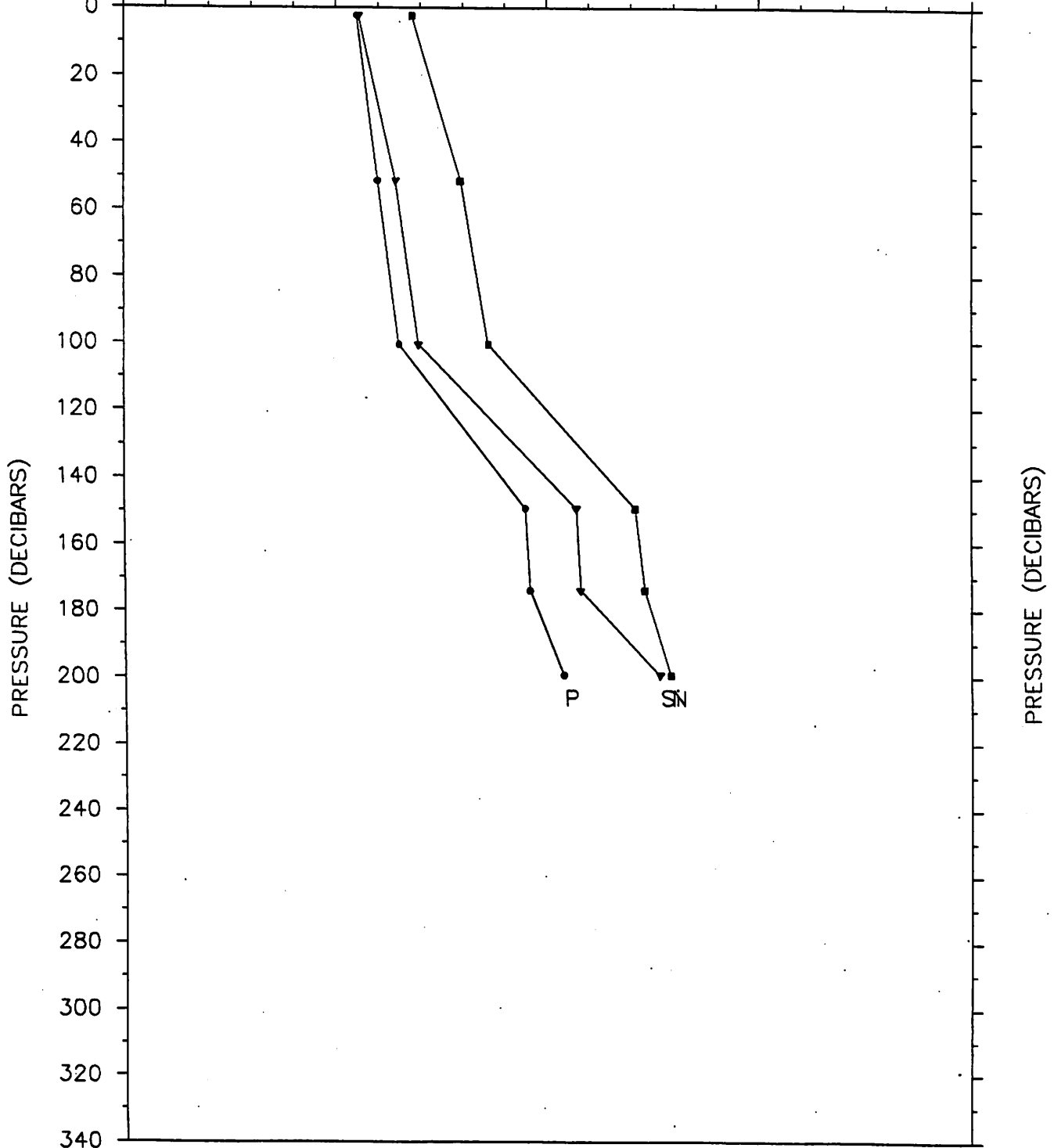
| | | | | | | | | | | | | | | | | |
|-----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0.00 | 3.13 | 8.25 | 9.38 | 12.50 | 15.63 | 18.75 | 21.87 | 25.00 | 28.12 | 31.25 | 34.38 | 37.50 | 40.63 | 43.75 | 46.88 | 50.00 |
| ★ N CPH | | | | | | | | | | | | | | | | |
| 0.00 | 0.05 | 0.10 | 0.15 | 0.20 | 0.25 | 0.30 | 0.35 | 0.40 | 0.45 | 0.50 | 0.55 | 0.60 | 0.65 | 0.70 | 0.75 | 0.80 |
| Z RIN COEFF M ⁻¹ | | | | | | | | | | | | | | | | |
| 0.00 | 0.63 | 1.25 | 1.88 | 2.50 | 3.13 | 3.75 | 4.38 | 5.00 | 5.63 | 6.25 | 6.88 | 7.50 | 8.13 | 8.75 | 9.38 | 10.00 |
| X OXYGEN ML/L | | | | | | | | | | | | | | | | |
| 22.00 | 22.50 | 23.00 | 23.50 | 24.00 | 24.50 | 25.00 | 25.50 | 26.00 | 26.50 | 27.00 | 27.50 | 28.00 | 28.50 | 29.00 | 29.50 | 30.00 |
| ◇ SICHA-T KG/MHW3 | | | | | | | | | | | | | | | | |
| 32.00 | 32.25 | 32.50 | 32.75 | 33.00 | 33.25 | 33.50 | 33.75 | 34.00 | 34.25 | 34.50 | 34.75 | 35.00 | 35.25 | 35.50 | 35.75 | 36.00 |
| □ SALINITY PSU | | | | | | | | | | | | | | | | |
| 0 | 2.00 | 4.00 | 6.00 | 8.00 | 10.00 | 12.00 | 14.00 | 16.00 | 18.00 | 20.00 | 22.00 | 24.00 | 26.00 | 28.00 | 30.00 | 32.00 |
| ↑ TEMP C | | | | | | | | | | | | | | | | |



SiO4 (μM)
0 5 10 15 20 25 30

NO3 + NO2 (μM)
0 5 10 15 20 25

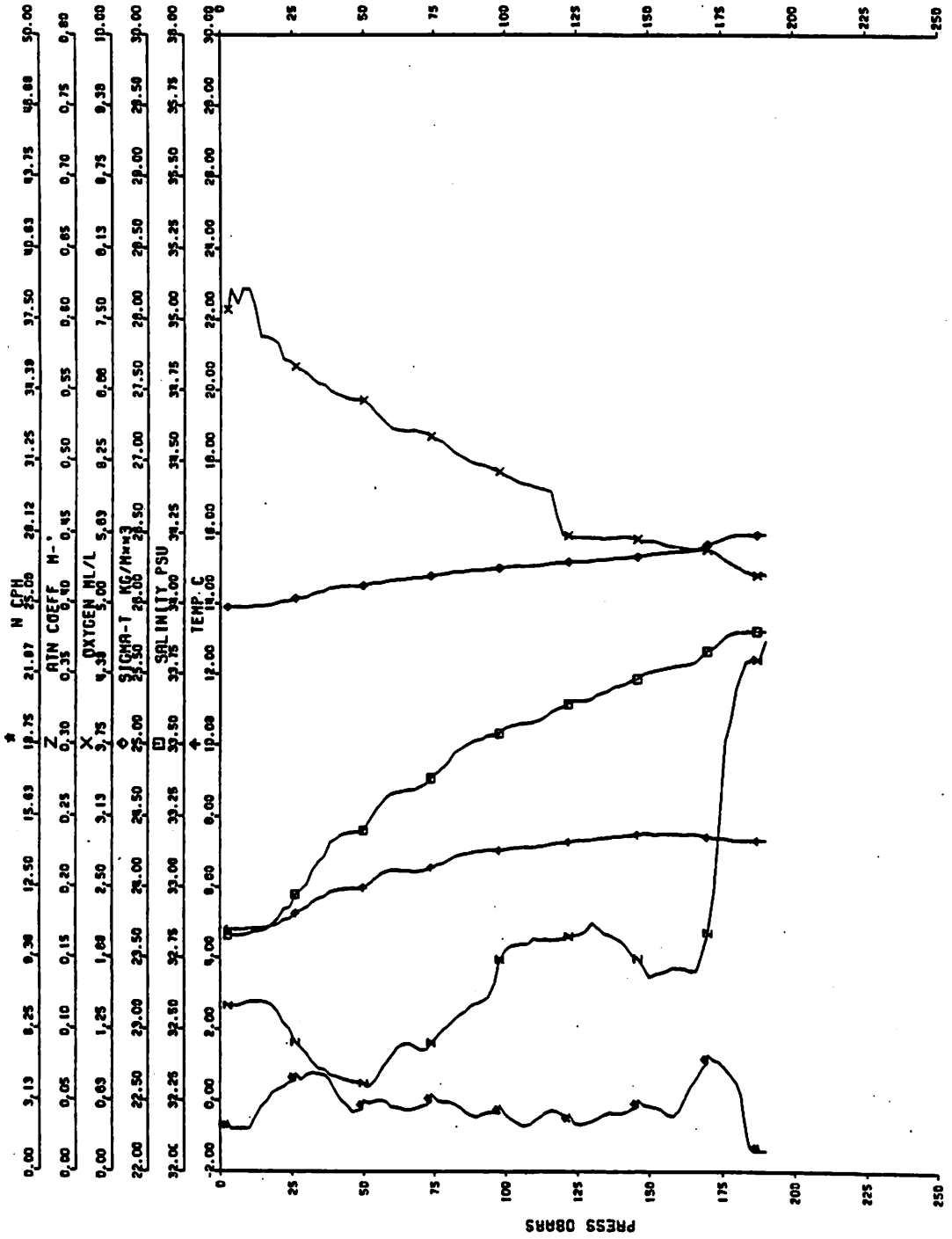
PO4 (μM)
0.0 0.5 1.0 1.5 2.0



CRUISE: OC181
8 FEB 87
14: 07: 30 GMT

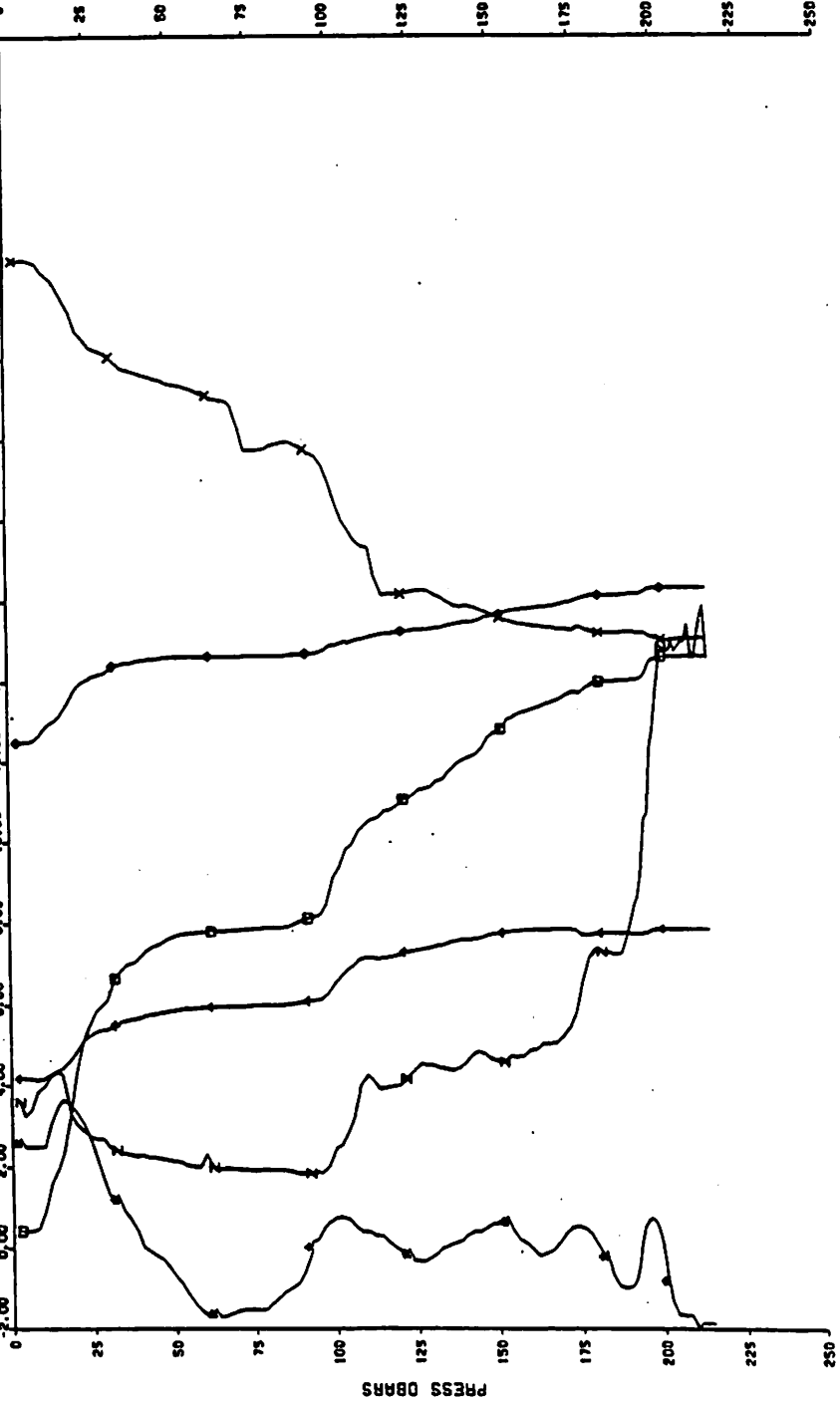
STATION: 46
42 34.44 N
68 59.01 W

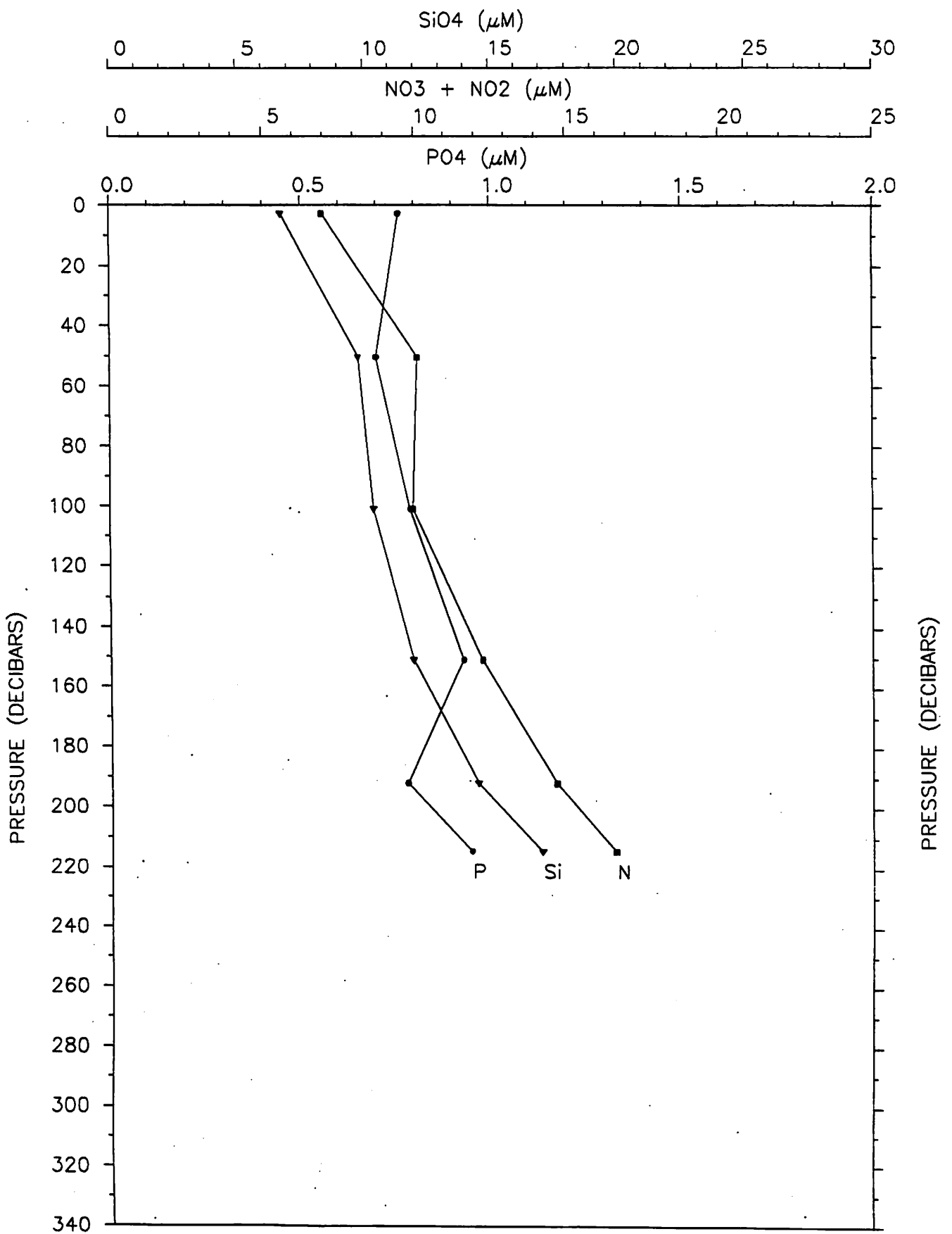
0C181B CAST #47



0C181B CAST #48

| | | | | | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|
| 0.00 | 3.13 | 8.25 | 9.38 | 12.50 | 15.63 | 18.75 | 21.87 | 25.00 | 28.12 | 31.25 | 34.38 | 37.50 | 40.63 | 43.75 | 46.88 | 50.00 |
| 0.00 | 0.05 | 0.10 | 0.15 | 0.20 | 0.25 | 0.30 | 0.35 | 0.40 | 0.45 | 0.50 | 0.55 | 0.60 | 0.65 | 0.70 | 0.75 | 0.80 |
| 0.00 | 0.03 | 1.25 | 1.68 | 2.50 | 3.13 | 3.75 | 4.38 | 5.00 | 5.63 | 6.25 | 6.88 | 7.50 | 8.13 | 8.75 | 9.38 | 10.00 |
| 22.00 | 27.50 | 33.00 | 38.50 | 44.00 | 49.50 | 55.00 | 60.50 | 66.00 | 71.50 | 77.00 | 82.50 | 88.00 | 93.50 | 99.00 | 104.50 | 110.00 |
| 32.00 | 37.50 | 43.00 | 48.50 | 54.00 | 59.50 | 65.00 | 70.50 | 76.00 | 81.50 | 87.00 | 92.50 | 98.00 | 103.50 | 109.00 | 114.50 | 120.00 |
| | | | | | | | | | | | | | | | | |



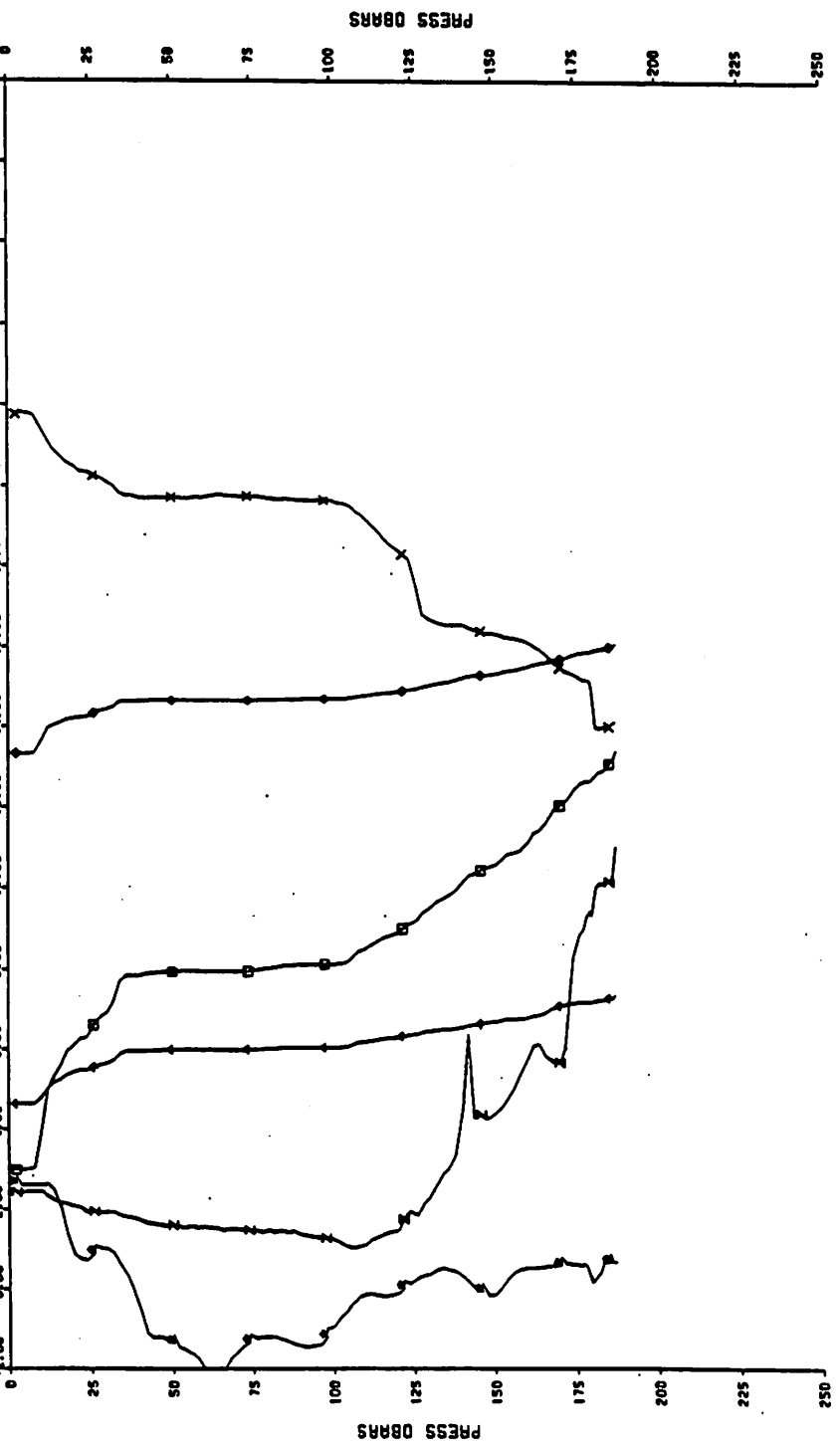


CRUISE: OC181
 8 FEB 87
 19: 00: 00 GMT

STATION: 48
 42. 35.05 N
 68 30.11 W

0C181A CAST #49

| | | | | | | | | | | | | | | | | |
|-----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0.00 | 3.13 | 9.25 | 9.30 | 12.50 | 15.63 | 18.75 | 21.87 | 25.00 | 28.12 | 31.25 | 34.38 | 37.50 | 40.63 | 43.75 | 46.88 | 50.00 |
| * N CPH | | | | | | | | | | | | | | | | |
| 0.00 | 0.05 | 0.10 | 0.15 | 0.20 | 0.25 | 0.30 | 0.35 | 0.40 | 0.45 | 0.50 | 0.55 | 0.60 | 0.65 | 0.70 | 0.75 | 0.80 |
| Z RIN COEFF M ⁻¹ | | | | | | | | | | | | | | | | |
| 0.00 | 0.89 | 1.25 | 1.66 | 2.50 | 3.13 | 3.75 | 4.38 | 5.00 | 5.63 | 6.25 | 6.88 | 7.50 | 8.13 | 8.75 | 9.38 | 10.00 |
| X OXYGEN ML/L | | | | | | | | | | | | | | | | |
| 22.00 | 22.50 | 23.00 | 23.50 | 24.00 | 24.50 | 25.00 | 25.50 | 26.00 | 26.50 | 27.00 | 27.50 | 28.00 | 28.50 | 29.00 | 29.50 | 30.00 |
| SICHA-T KG/M ³ | | | | | | | | | | | | | | | | |
| 32.00 | 32.25 | 32.50 | 32.75 | 33.00 | 33.25 | 33.50 | 33.75 | 34.00 | 34.25 | 34.50 | 34.75 | 35.00 | 35.25 | 35.50 | 35.75 | 36.00 |
| SALINITY PSU | | | | | | | | | | | | | | | | |
| 0 | 2.00 | 4.00 | 6.00 | 8.00 | 10.00 | 12.00 | 14.00 | 16.00 | 18.00 | 20.00 | 22.00 | 24.00 | 26.00 | 28.00 | 30.00 | 32.00 |
| TEMP C | | | | | | | | | | | | | | | | |



SiO4 (μM)

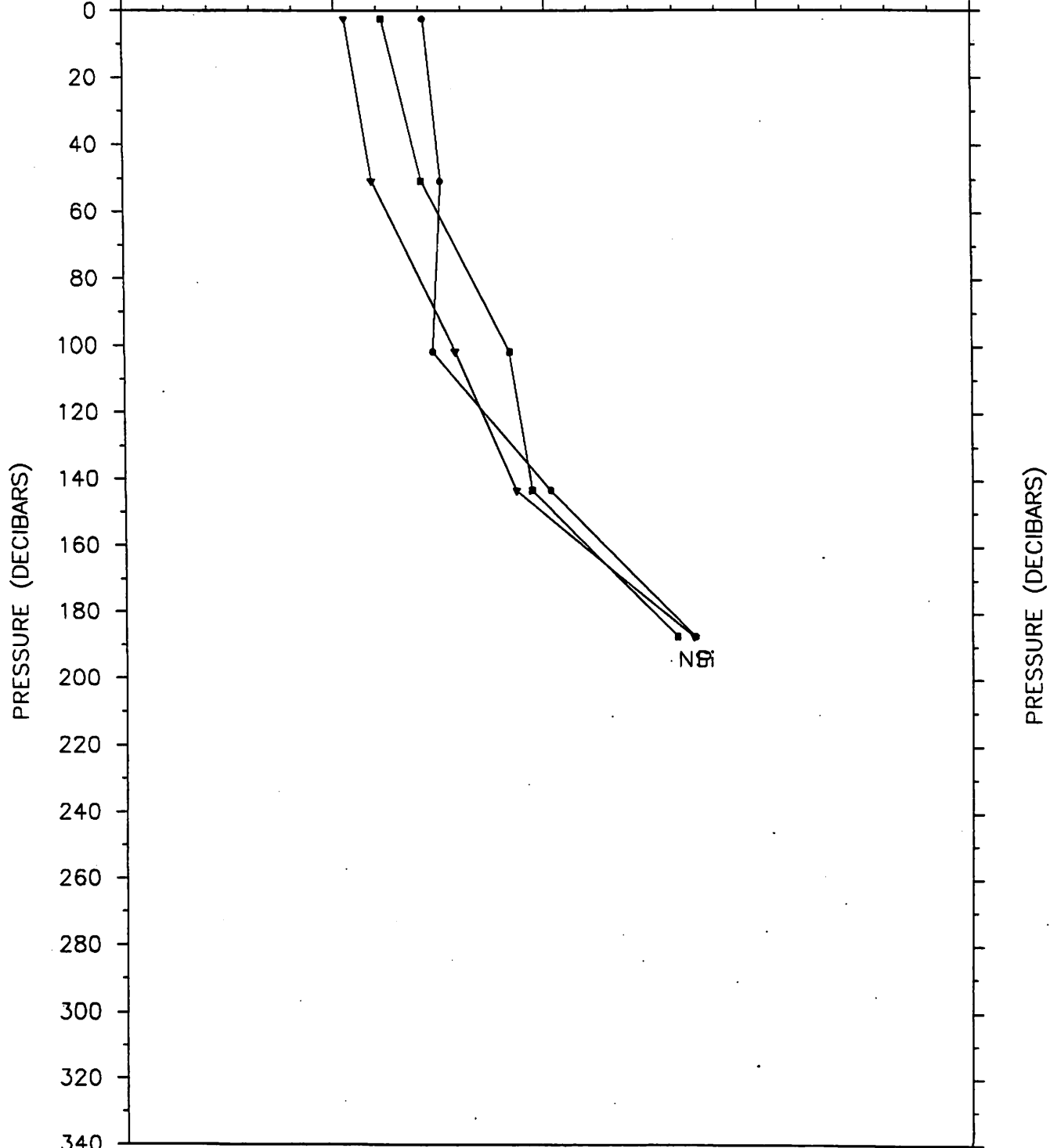
0 5 10 15 20 25 30

NO3 + NO2 (μM)

0 5 10 15 20 25

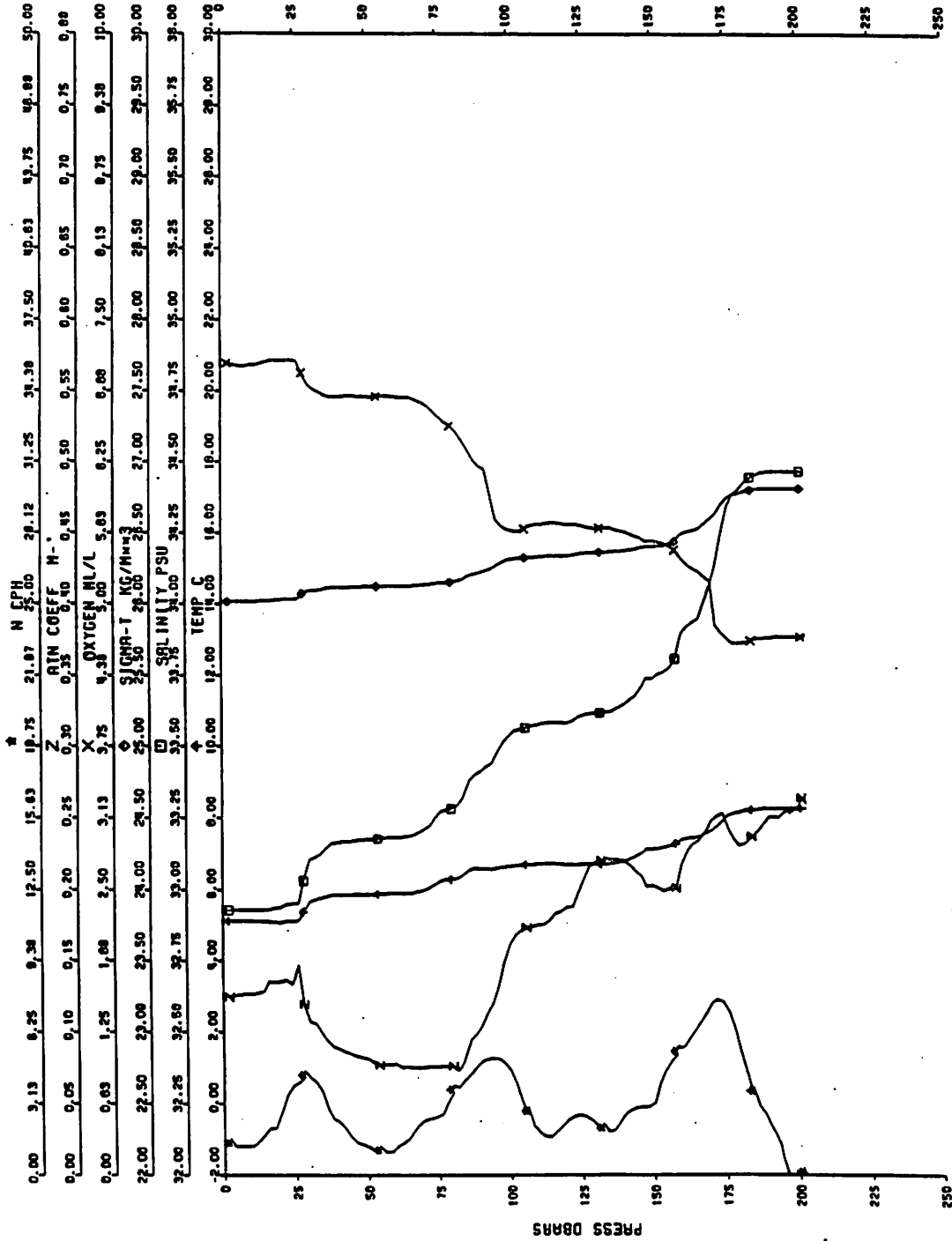
PO4 (μM)

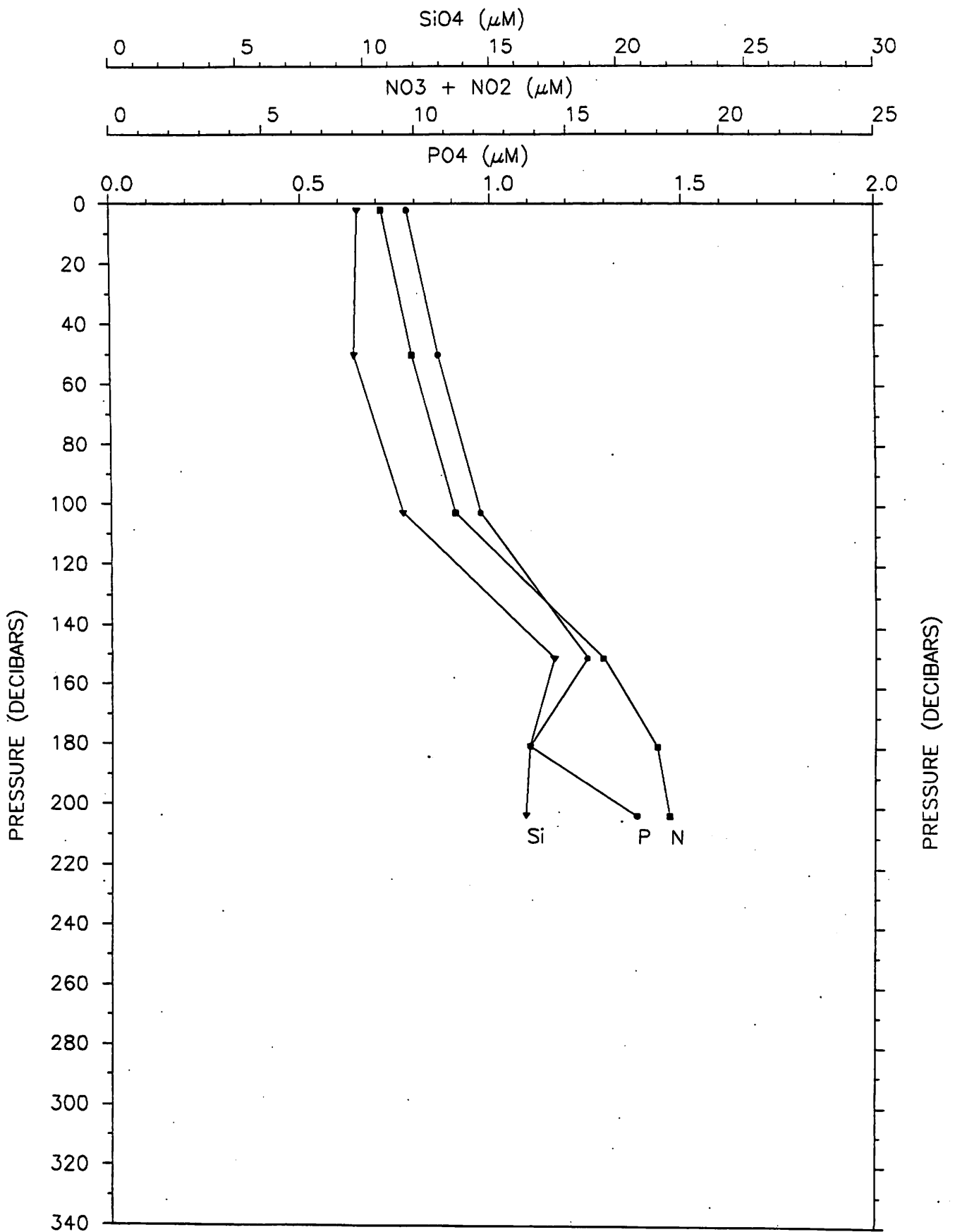
0.0 0.5 1.0 1.5 2.0



CRUISE: OC181 STATION: 49
8 FEB 87 42 34.57 N
20: 30: 00 GMT 68 14.95 W

0C181A CAST #50



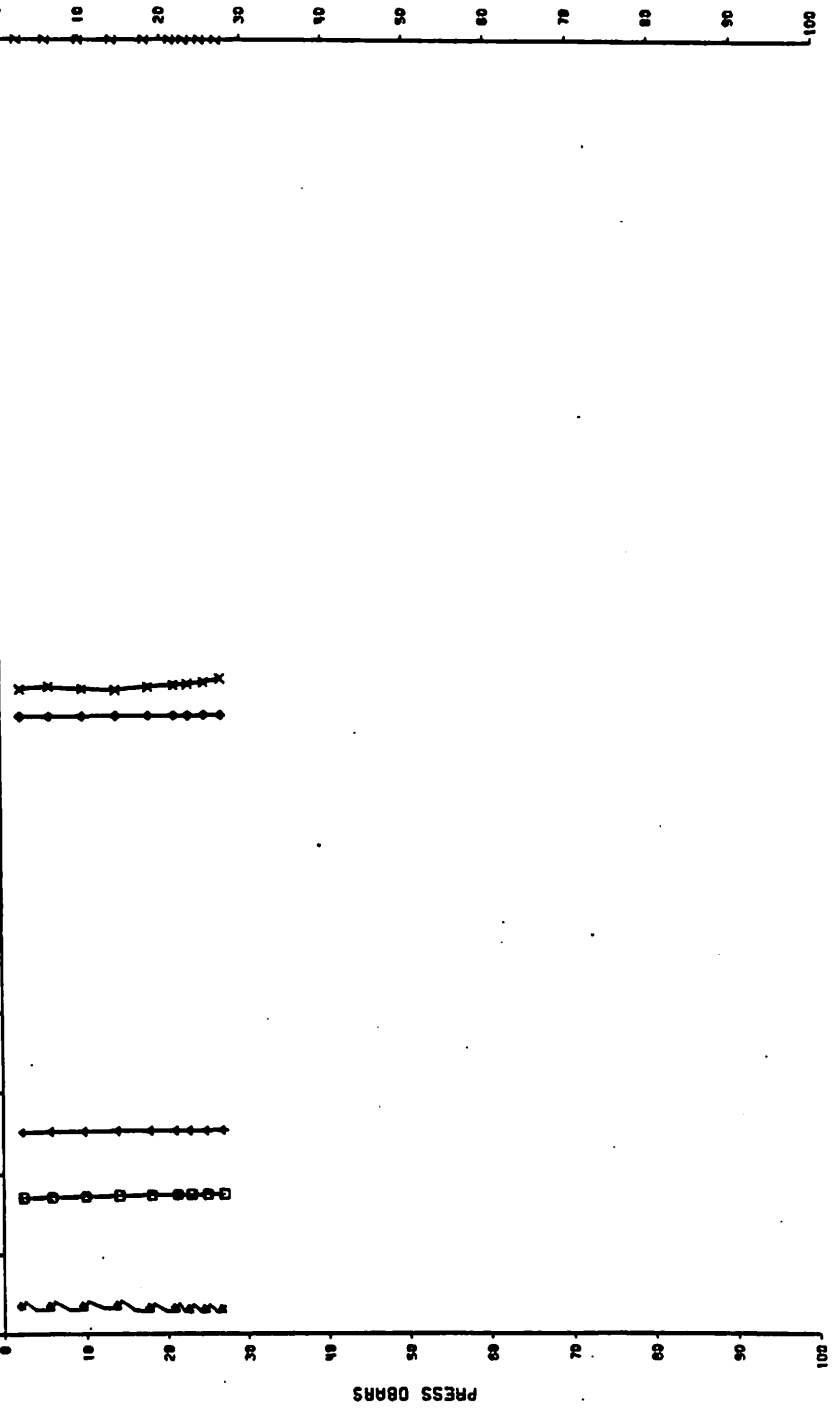


CRUISE: OC181
 8 FEB 87
 22: 00: 00 GMT

STATION: 50
 42 33.46 N
 68 00.04 W

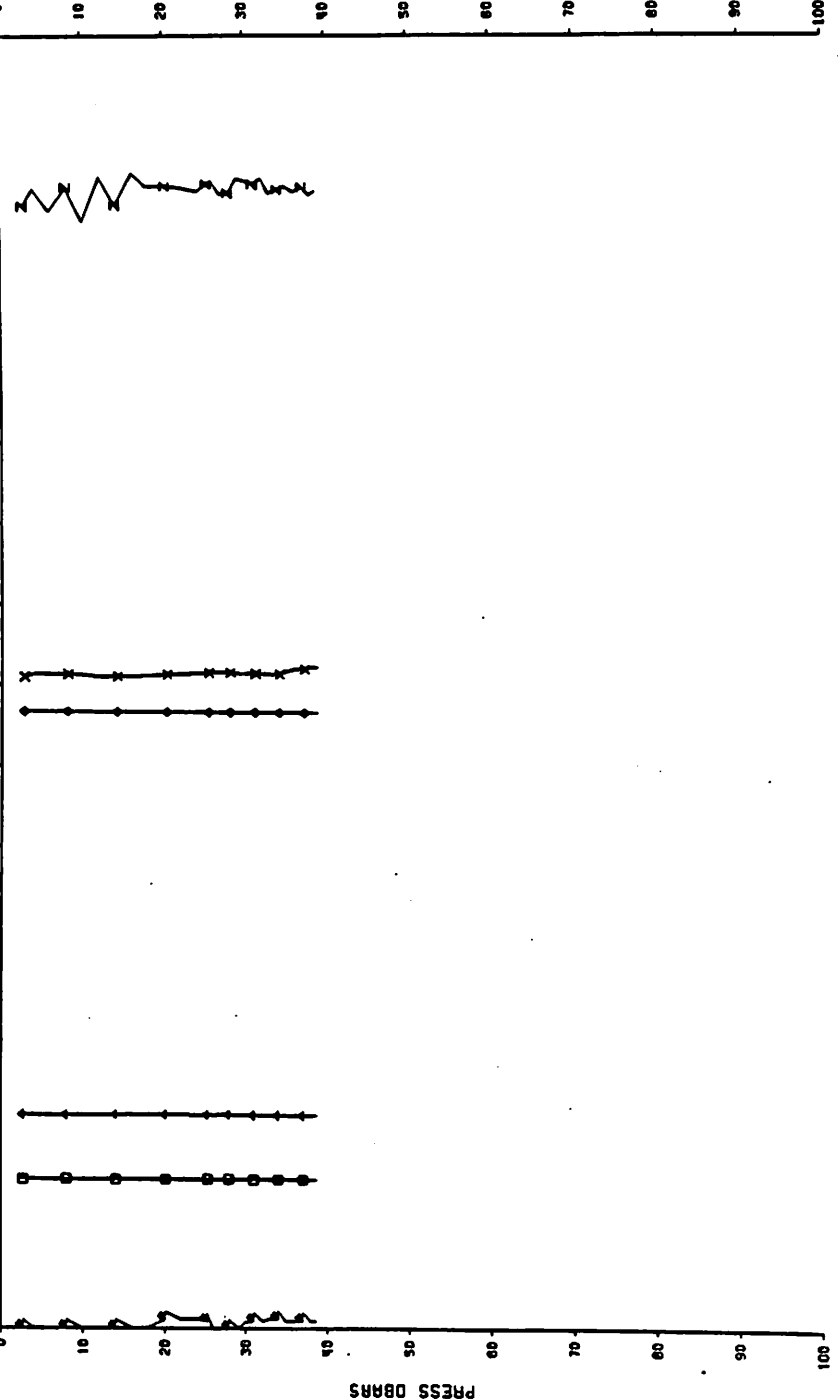
0C181A CAST #51

| | | | | | | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|---------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0.00 | 3.13 | 8.25 | 9.38 | 12.50 | 15.63 | 18.75 | 21.87 | N CPH | 25.00 | 28.12 | 31.25 | 34.38 | 37.50 | 40.63 | 43.75 | 46.88 | 50.00 |
| 0.00 | 0.05 | 0.10 | 0.15 | 0.20 | 0.25 | 0.30 | 0.35 | ATM COEFF | 0.40 | 0.45 | 0.50 | 0.55 | 0.60 | 0.65 | 0.70 | 0.75 | 0.80 |
| 0.00 | 0.03 | 1.25 | 1.68 | 2.50 | 3.13 | 3.75 | 4.38 | OXYGEN ML/L | 5.00 | 5.63 | 6.25 | 6.88 | 7.50 | 8.13 | 8.75 | 9.38 | 10.00 |
| 22.00 | 22.50 | 23.00 | 23.50 | 24.00 | 24.50 | 25.00 | 25.50 | SIGMA-T | 26.00 | 26.50 | 27.00 | 27.50 | 28.00 | 28.50 | 29.00 | 29.50 | 30.00 |
| 32.00 | 32.25 | 32.50 | 32.75 | 33.00 | 33.25 | 33.50 | 33.75 | SRL IN LY PSU | 34.00 | 34.25 | 34.50 | 34.75 | 35.00 | 35.25 | 35.50 | 35.75 | 36.00 |
| 0.00 | 0.00 | 2.00 | 4.00 | 6.00 | 8.00 | 10.00 | 12.00 | TEMP C | 14.00 | 16.00 | 18.00 | 20.00 | 22.00 | 24.00 | 26.00 | 28.00 | 30.00 |



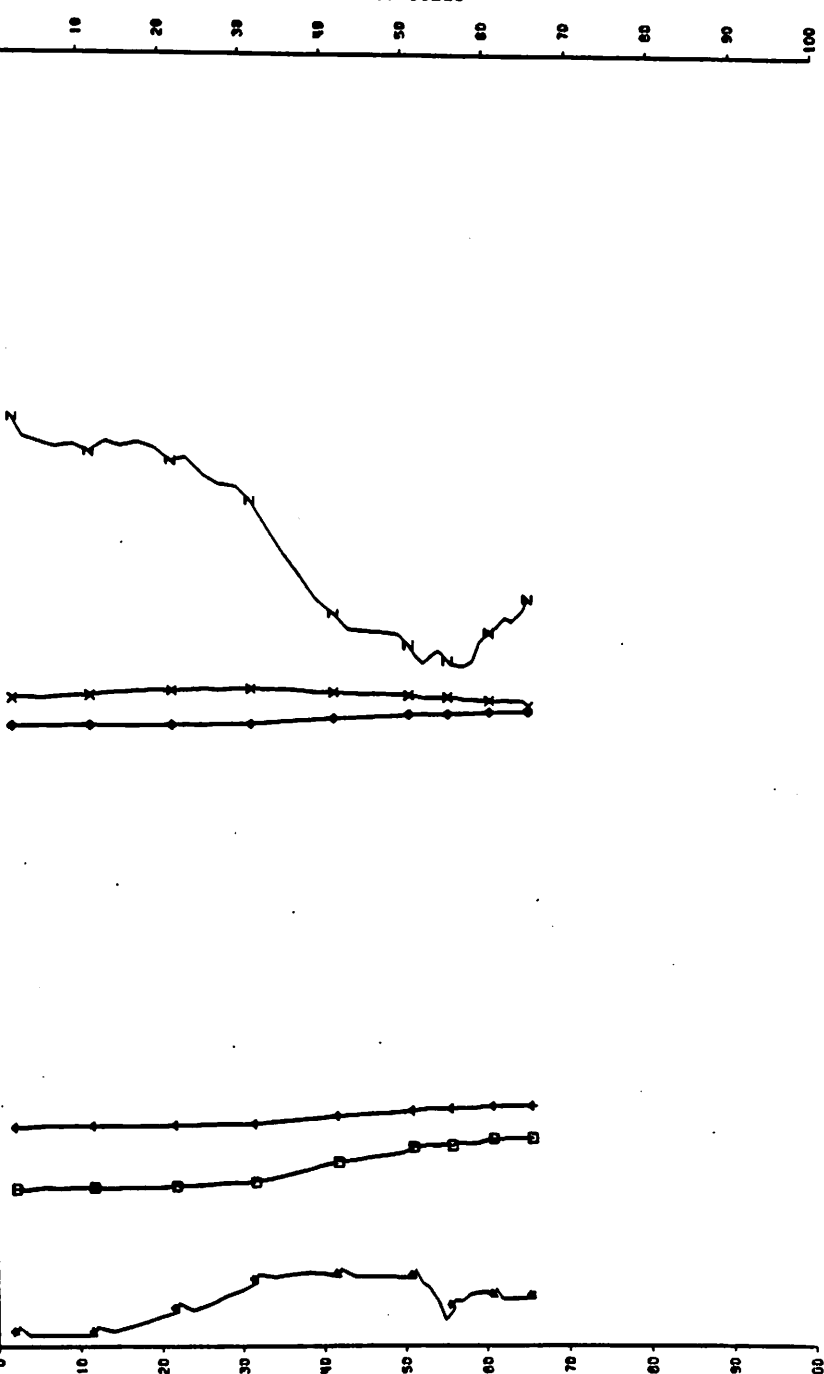
0C181A CAST #52

| | | | | | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0.00 | 3.13 | 6.25 | 9.38 | 12.50 | 15.63 | 18.75 | 21.87 | 25.00 | 28.12 | 31.25 | 34.38 | 37.50 | 40.63 | 43.75 | 46.88 | 50.00 |
| 0.00 | 0.05 | 0.10 | 0.15 | 0.20 | 0.25 | 0.30 | 0.35 | 0.40 | 0.45 | 0.50 | 0.55 | 0.60 | 0.65 | 0.70 | 0.75 | 0.80 |
| 0.00 | 0.03 | 1.25 | 1.08 | 2.50 | 3.13 | 3.75 | 4.38 | 5.00 | 5.63 | 6.25 | 6.88 | 7.50 | 8.13 | 8.75 | 9.38 | 10.00 |
| 22.00 | 22.50 | 23.00 | 23.50 | 24.00 | 24.50 | 25.00 | 25.50 | 26.00 | 26.50 | 27.00 | 27.50 | 28.00 | 28.50 | 29.00 | 29.50 | 30.00 |
| 32.00 | 32.25 | 32.50 | 32.75 | 33.00 | 33.25 | 33.50 | 33.75 | 34.00 | 34.25 | 34.50 | 34.75 | 35.00 | 35.25 | 35.50 | 35.75 | 36.00 |
| 0 | 2.00 | 4.00 | 6.00 | 8.00 | 10.00 | 12.00 | 14.00 | 16.00 | 18.00 | 20.00 | 22.00 | 24.00 | 26.00 | 28.00 | 30.00 | 32.00 |



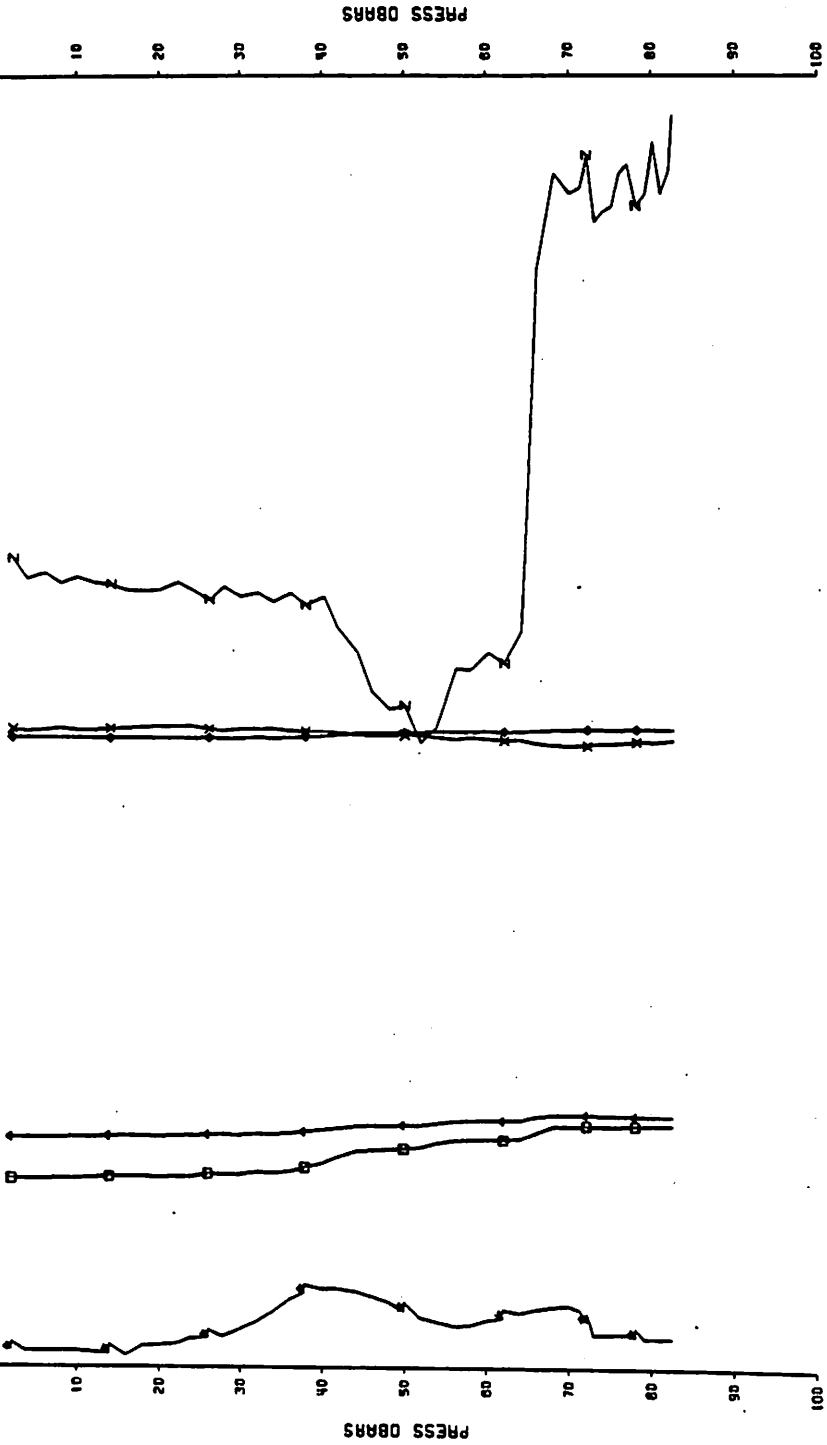
0C181A CAST #53

| | | | | | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0.00 | 3.13 | 9.25 | 9.38 | 12.50 | 15.63 | 18.75 | 21.87 | 25.00 | 28.12 | 31.25 | 34.38 | 37.50 | 40.63 | 43.75 | 46.88 | 50.00 |
| 0.00 | 0.05 | 0.10 | 0.15 | 0.20 | 0.25 | 0.30 | 0.35 | 0.40 | 0.45 | 0.50 | 0.55 | 0.60 | 0.65 | 0.70 | 0.75 | 0.80 |
| 0.00 | 0.05 | 1.25 | 1.68 | 2.50 | 3.13 | 3.75 | 4.38 | 5.00 | 5.63 | 6.25 | 6.88 | 7.50 | 8.13 | 8.75 | 9.38 | 10.00 |
| 22.00 | 22.50 | 23.00 | 23.50 | 24.00 | 24.50 | 25.00 | 25.50 | 26.00 | 26.50 | 27.00 | 27.50 | 28.00 | 28.50 | 29.00 | 29.50 | 30.00 |
| 32.00 | 32.25 | 32.50 | 32.75 | 33.00 | 33.25 | 33.50 | 33.75 | 34.00 | 34.25 | 34.50 | 34.75 | 35.00 | 35.25 | 35.50 | 35.75 | 36.00 |
| 0 | 2.00 | 4.00 | 6.00 | 8.00 | 10.00 | 12.00 | 14.00 | 16.00 | 18.00 | 20.00 | 22.00 | 24.00 | 26.00 | 28.00 | 30.00 | |



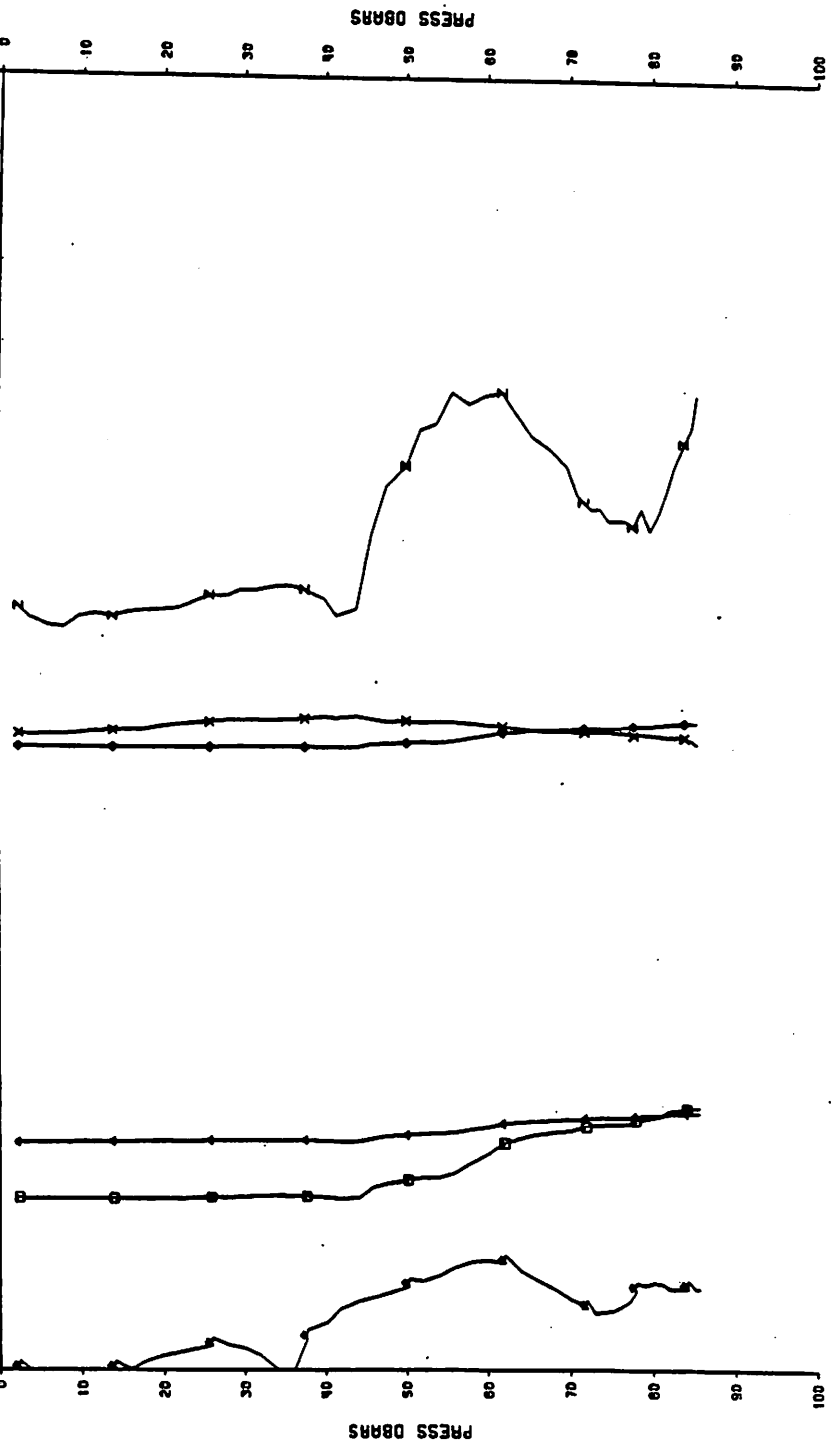
0C181A CAST #54

| | | | | | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------------------------|-------|-------|-------|-------|-------|-------|-------|
| 0.00 | 3.13 | 6.25 | 9.38 | 12.50 | 15.63 | 18.75 | 21.87 | 25.00 | N CPH | 31.25 | 34.38 | 37.50 | 40.63 | 43.75 | 46.88 | 50.00 |
| 0.00 | 0.05 | 0.10 | 0.15 | 0.20 | 0.25 | 0.30 | 0.35 | 0.40 | RIN COEFF M ⁻¹ | 0.45 | 0.50 | 0.55 | 0.60 | 0.65 | 0.70 | 0.75 |
| 0.00 | 0.03 | 1.25 | 1.68 | 2.50 | 3.13 | 3.75 | 4.38 | 5.00 | OXYGEN ML/L | 5.63 | 6.25 | 6.88 | 7.50 | 8.13 | 8.75 | 9.38 |
| 22.00 | 22.50 | 23.00 | 23.50 | 24.00 | 24.50 | 25.00 | 25.50 | 26.00 | SICHA-T MG/M ³ | 26.50 | 27.00 | 27.50 | 28.00 | 28.50 | 29.00 | 29.50 |
| 32.00 | 32.25 | 32.50 | 32.75 | 33.00 | 33.25 | 33.50 | 33.75 | 34.00 | SALINITY PSU | 34.25 | 34.50 | 34.75 | 35.00 | 35.25 | 35.50 | 35.75 |
| 0 | 0.00 | 2.00 | 4.00 | 6.00 | 8.00 | 10.00 | 12.00 | 14.00 | TEMP C | 16.00 | 18.00 | 20.00 | 22.00 | 24.00 | 26.00 | 28.00 |

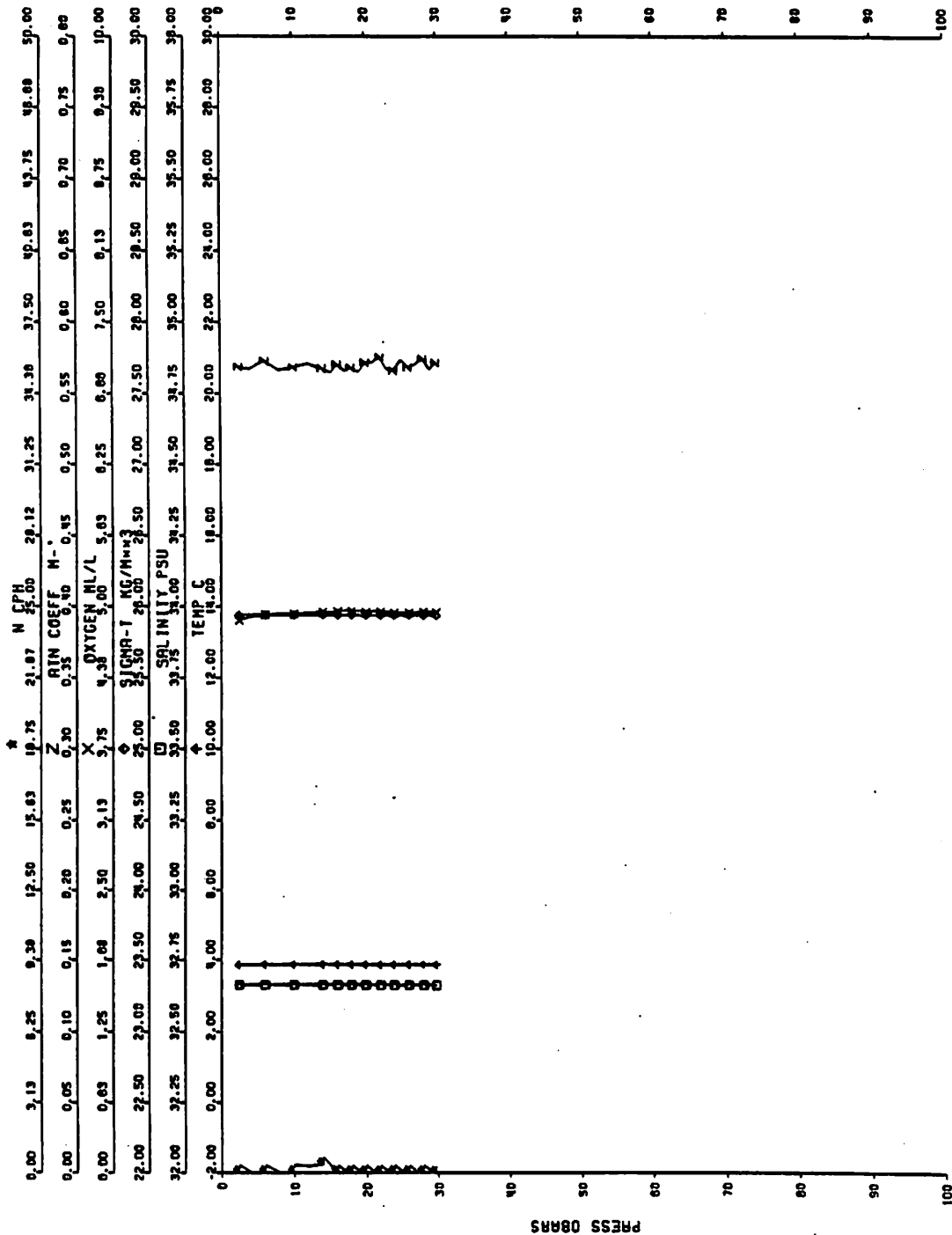


0C181A CAST #55

| | | | | | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0.00 | 3.13 | 9.25 | 9.38 | 12.50 | 15.63 | 18.75 | 21.87 | 25.00 | 28.12 | 31.25 | 34.38 | 37.50 | 40.63 | 43.75 | 46.88 | 50.00 |
| 0.00 | 0.05 | 0.10 | 0.15 | 0.20 | 0.25 | 0.30 | 0.35 | 0.40 | 0.45 | 0.50 | 0.55 | 0.60 | 0.65 | 0.70 | 0.75 | 0.80 |
| 0.00 | 0.03 | 1.25 | 1.68 | 2.50 | 3.13 | 3.75 | 4.38 | 5.00 | 5.63 | 6.25 | 6.88 | 7.50 | 8.13 | 8.75 | 9.38 | 10.00 |
| 22.00 | 22.50 | 23.00 | 23.50 | 24.00 | 24.50 | 25.00 | 25.50 | 26.00 | 26.50 | 27.00 | 27.50 | 28.00 | 28.50 | 29.00 | 29.50 | 30.00 |
| 32.00 | 32.25 | 32.50 | 32.75 | 33.00 | 33.25 | 33.50 | 33.75 | 34.00 | 34.25 | 34.50 | 34.75 | 35.00 | 35.25 | 35.50 | 35.75 | 36.00 |
| 0.00 | 0.00 | 2.00 | 4.00 | 6.00 | 8.00 | 10.00 | 12.00 | 14.00 | 16.00 | 18.00 | 20.00 | 22.00 | 24.00 | 26.00 | 28.00 | 30.00 |

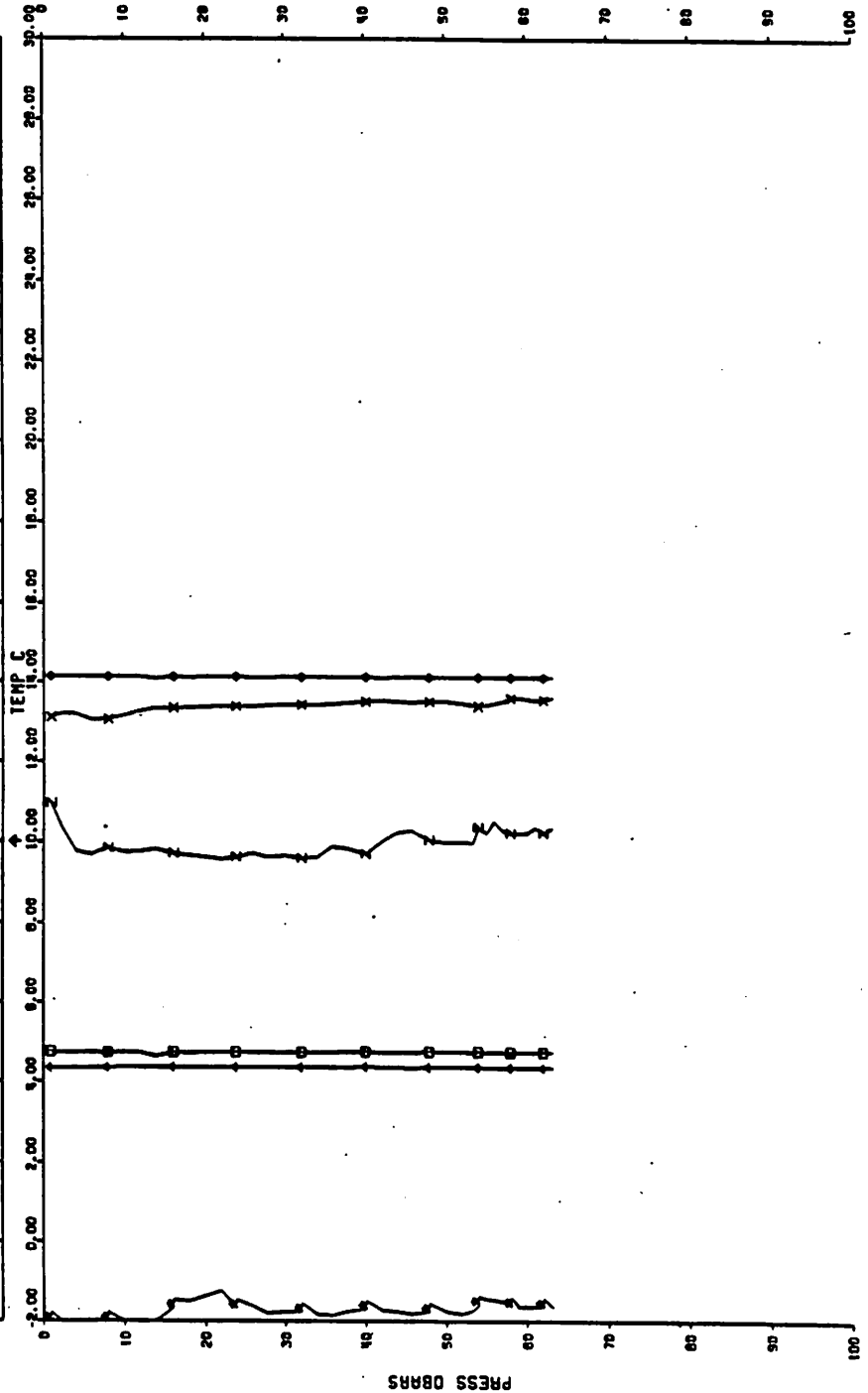


0C181A CAST #56



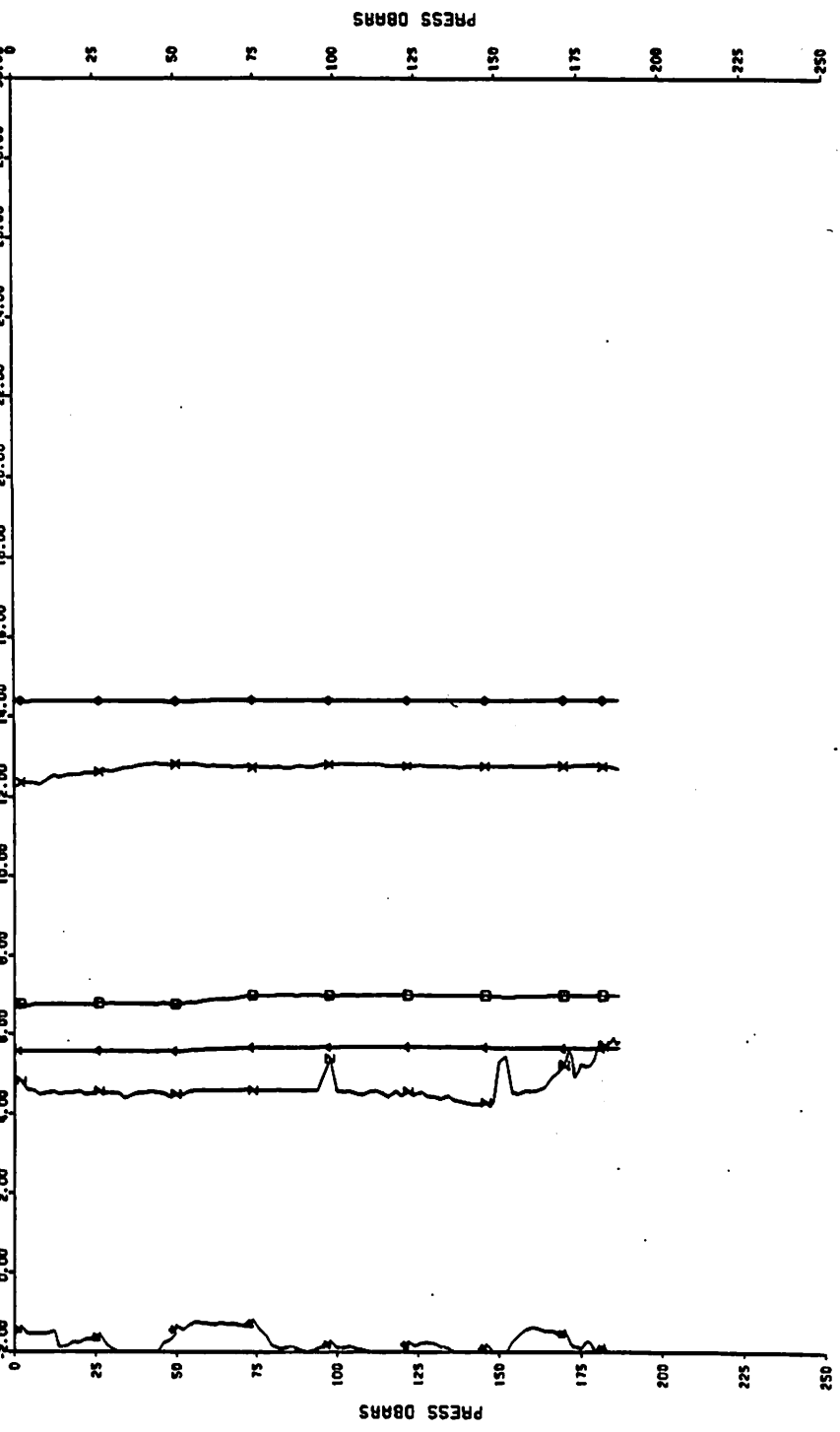
0C181B CAST #57

| Time | 3.13 | 6.25 | 9.38 | 12.50 | 15.63 | 18.75 | 21.87 | 25.00 | 28.12 | 31.25 | 34.38 | 37.50 | 40.63 | 43.75 | 46.88 | 50.00 |
|---------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| N | 0.00 | 0.05 | 0.10 | 0.15 | 0.20 | 0.25 | 0.30 | 0.35 | 0.40 | 0.45 | 0.50 | 0.55 | 0.60 | 0.65 | 0.70 | 0.75 |
| Z | 0.00 | 0.03 | 0.06 | 0.09 | 0.13 | 0.17 | 0.21 | 0.25 | 0.29 | 0.33 | 0.37 | 0.41 | 0.45 | 0.49 | 0.53 | 0.57 |
| X | 0.00 | 0.03 | 0.06 | 0.09 | 0.13 | 0.17 | 0.21 | 0.25 | 0.29 | 0.33 | 0.37 | 0.41 | 0.45 | 0.49 | 0.53 | 0.57 |
| OXYGEN ML/L | 22.00 | 22.50 | 23.00 | 24.00 | 24.50 | 25.00 | 25.50 | 26.00 | 26.50 | 27.00 | 27.50 | 28.00 | 28.50 | 29.00 | 29.50 | 30.00 |
| SIGMA-T KG/M ² | 32.00 | 32.25 | 32.50 | 32.75 | 33.00 | 33.25 | 33.50 | 33.75 | 34.00 | 34.25 | 34.50 | 34.75 | 35.00 | 35.25 | 35.50 | 35.75 |
| SALINITY PSU | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TEMP C | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

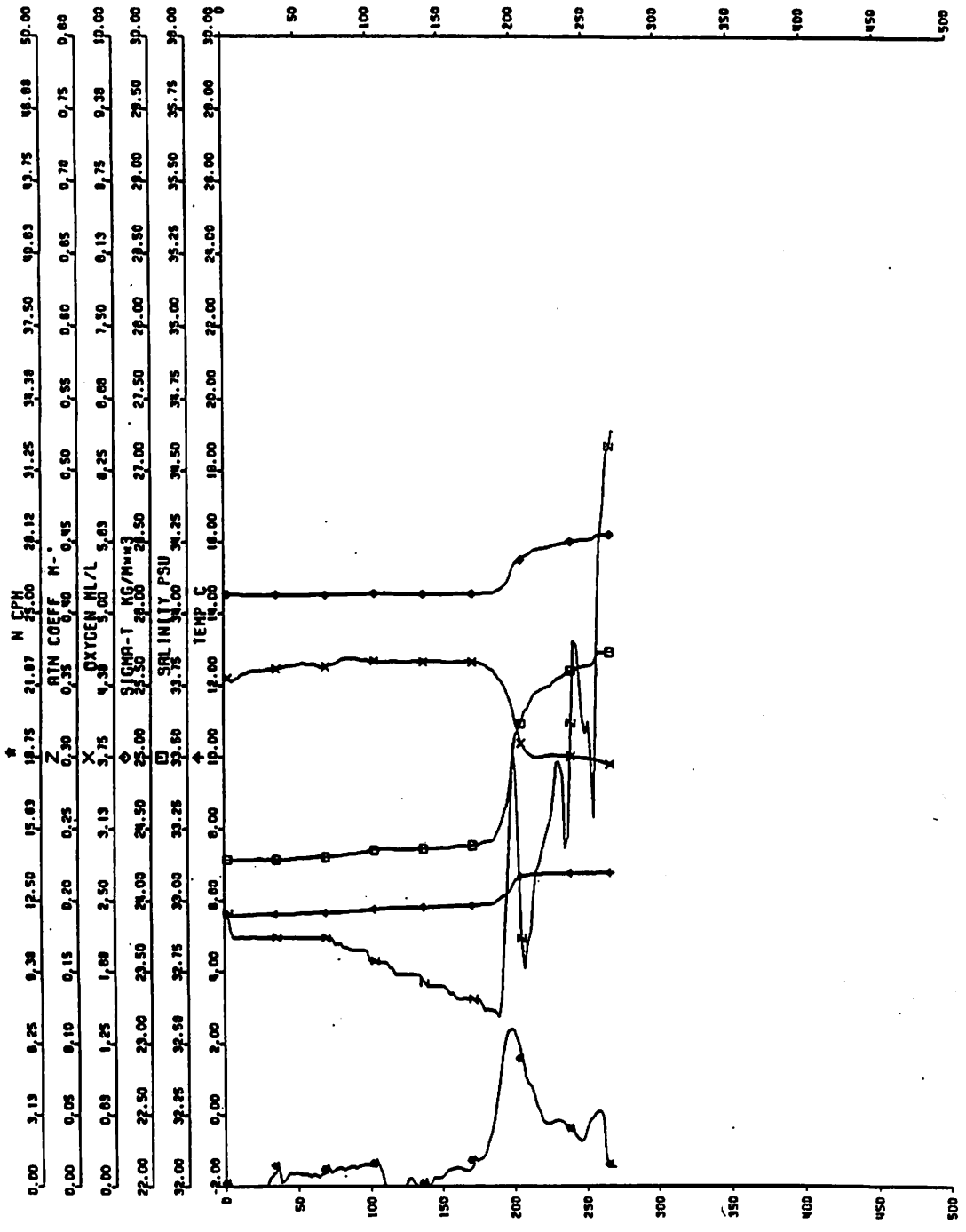


0C181A CAST #58

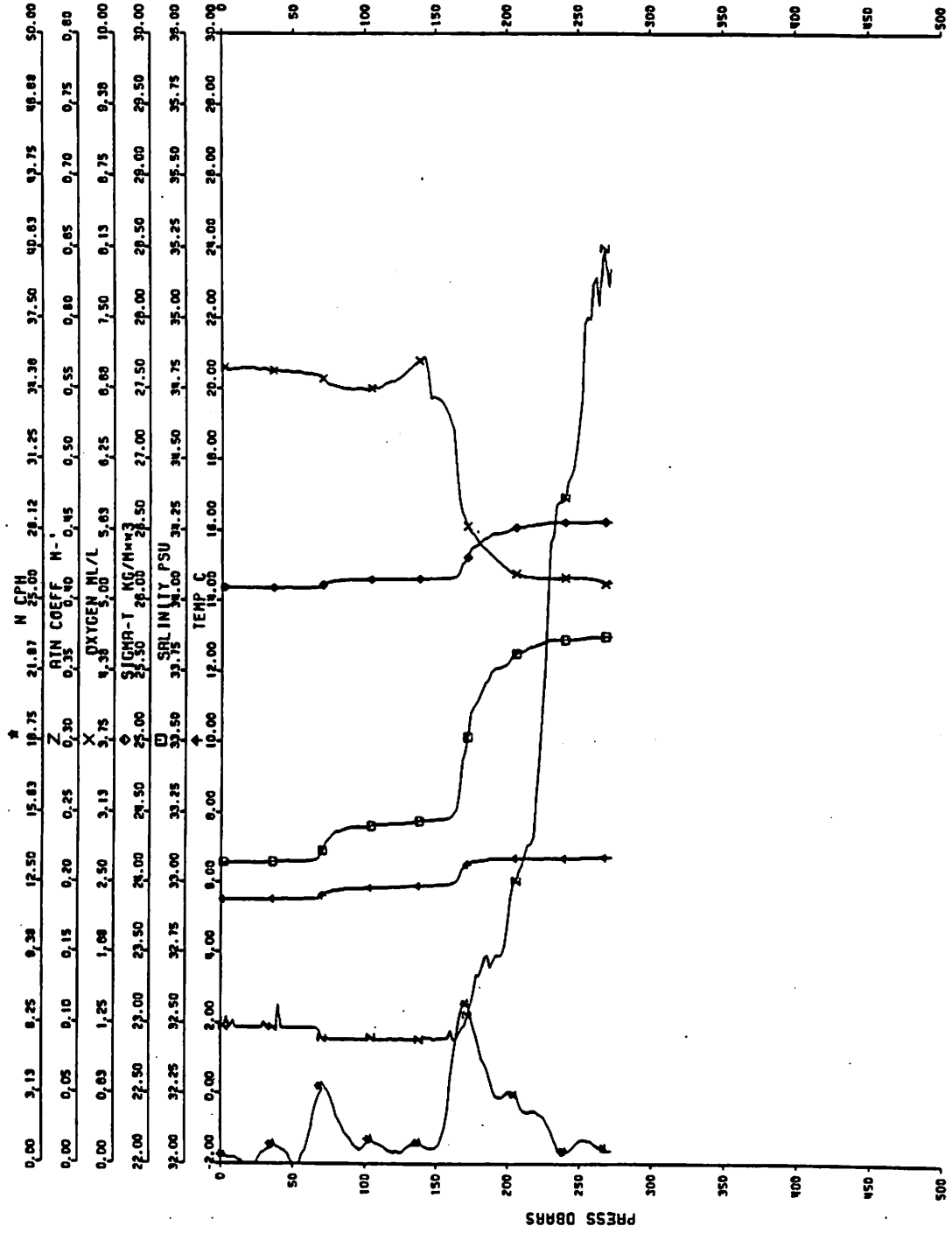
| | | | | | | | | | | | | | | | | |
|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0.00 | 3.13 | 8.25 | 9.38 | 12.50 | 15.63 | 18.75 | 21.87 | 25.00 | 28.12 | 31.25 | 34.38 | 37.50 | 40.63 | 43.75 | 46.88 | 50.00 |
| * N CPH | | | | | | | | | | | | | | | | |
| 0.00 | 0.05 | 0.10 | 0.15 | 0.20 | 0.25 | 0.30 | 0.35 | 0.40 | 0.45 | 0.50 | 0.55 | 0.60 | 0.65 | 0.70 | 0.75 | 0.80 |
| Z ATM COEFF M- | | | | | | | | | | | | | | | | |
| 0.00 | 0.63 | 1.25 | 1.88 | 2.50 | 3.13 | 3.75 | 4.38 | 5.00 | 5.63 | 6.25 | 6.88 | 7.50 | 8.13 | 8.75 | 9.38 | 10.00 |
| X OXYGEN ML/L | | | | | | | | | | | | | | | | |
| 22.00 | 22.50 | 23.00 | 23.50 | 24.00 | 24.50 | 25.00 | 25.50 | 26.00 | 26.50 | 27.00 | 27.50 | 28.00 | 28.50 | 29.00 | 29.50 | 30.00 |
| O SIGMA-T KG/MM3 | | | | | | | | | | | | | | | | |
| 32.00 | 32.25 | 32.50 | 32.75 | 33.00 | 33.25 | 33.50 | 33.75 | 34.00 | 34.25 | 34.50 | 34.75 | 35.00 | 35.25 | 35.50 | 35.75 | 36.00 |
| S SALINITY PSU | | | | | | | | | | | | | | | | |
| 0 | 0.00 | 2.00 | 4.00 | 6.00 | 8.00 | 10.00 | 12.00 | 14.00 | 16.00 | 18.00 | 20.00 | 22.00 | 24.00 | 26.00 | 28.00 | 30.00 |
| T TEMP C | | | | | | | | | | | | | | | | |



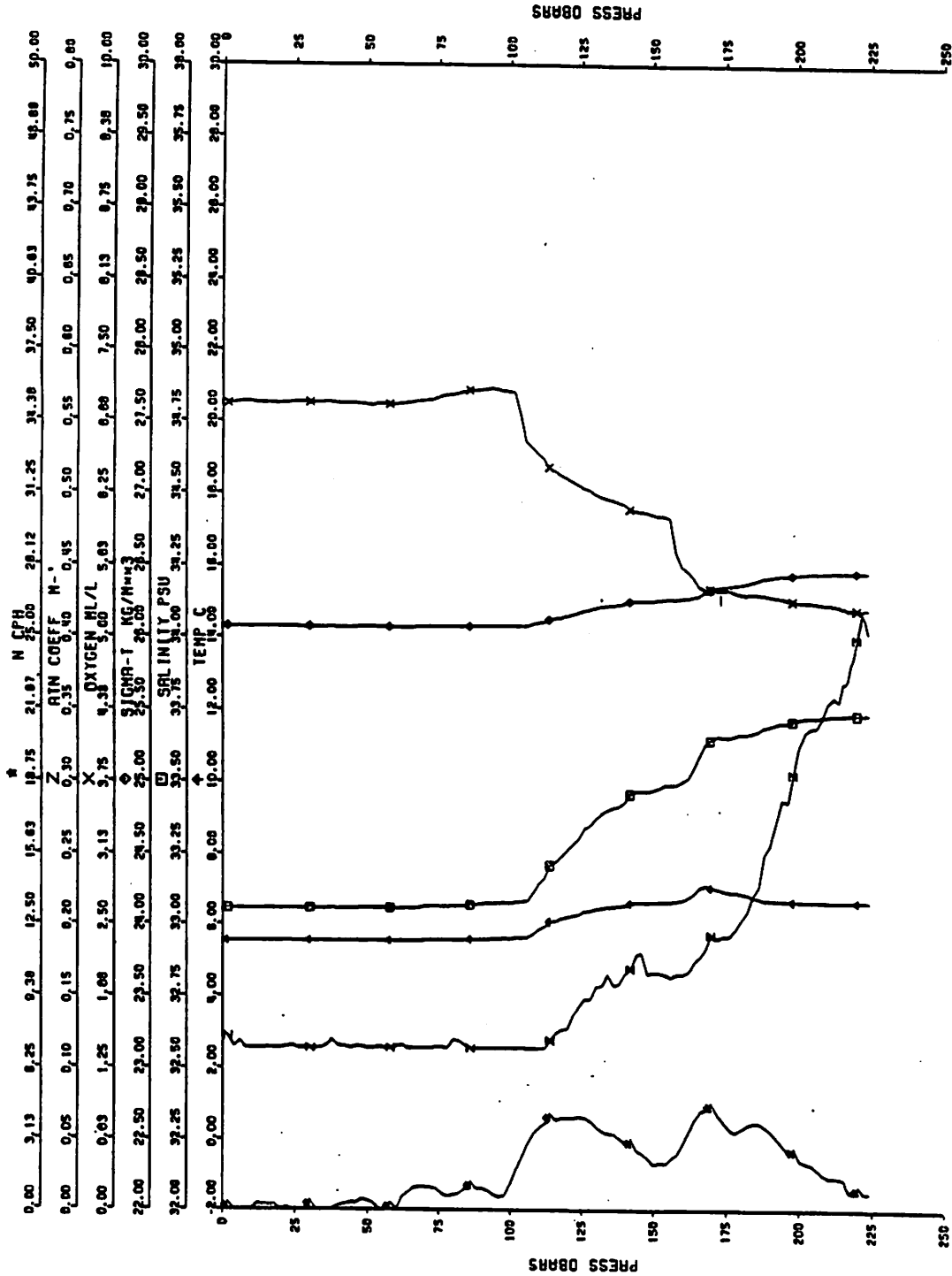
0C181B CAST #59



0C181U CAST #60

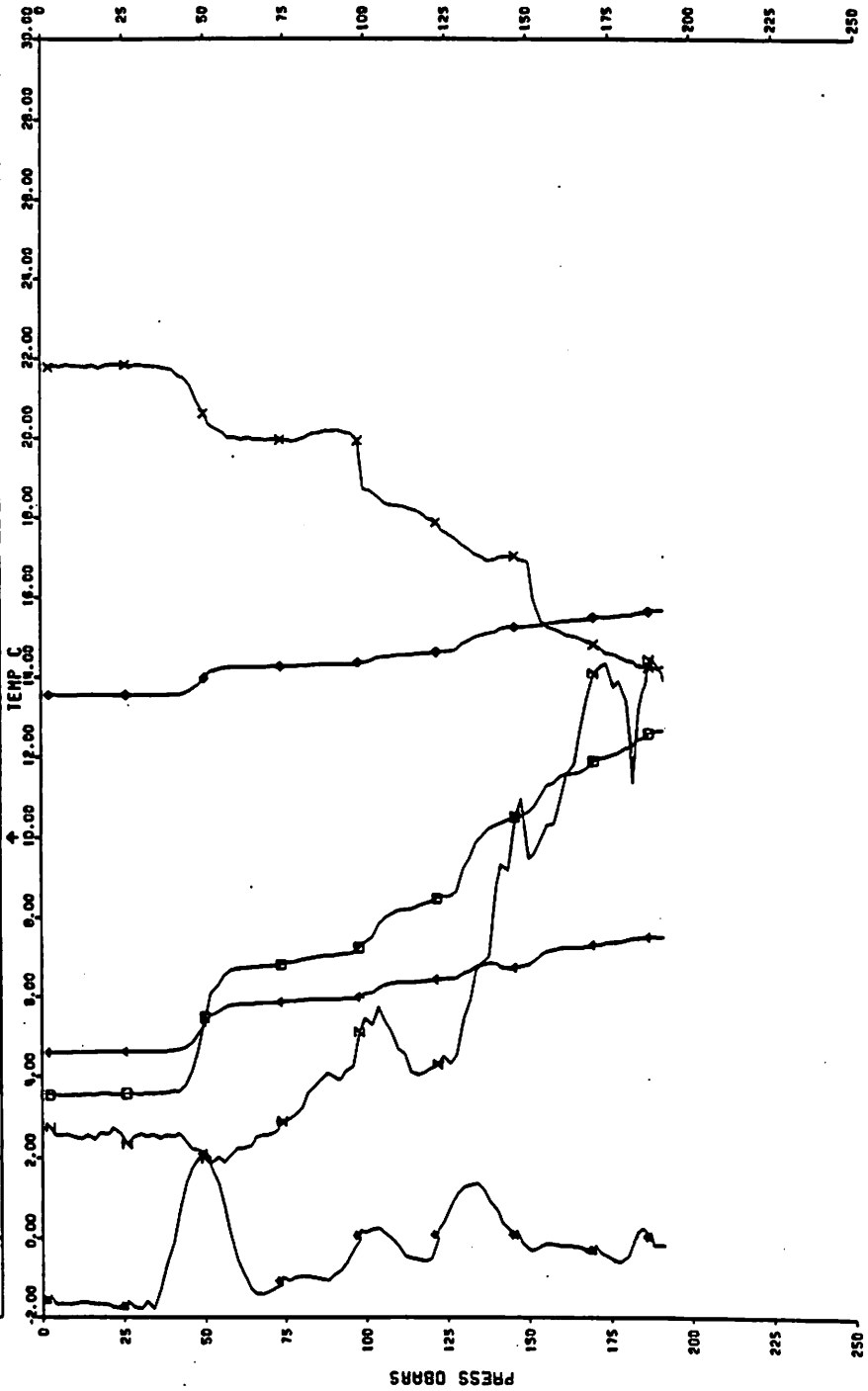


0C181B CAST #61



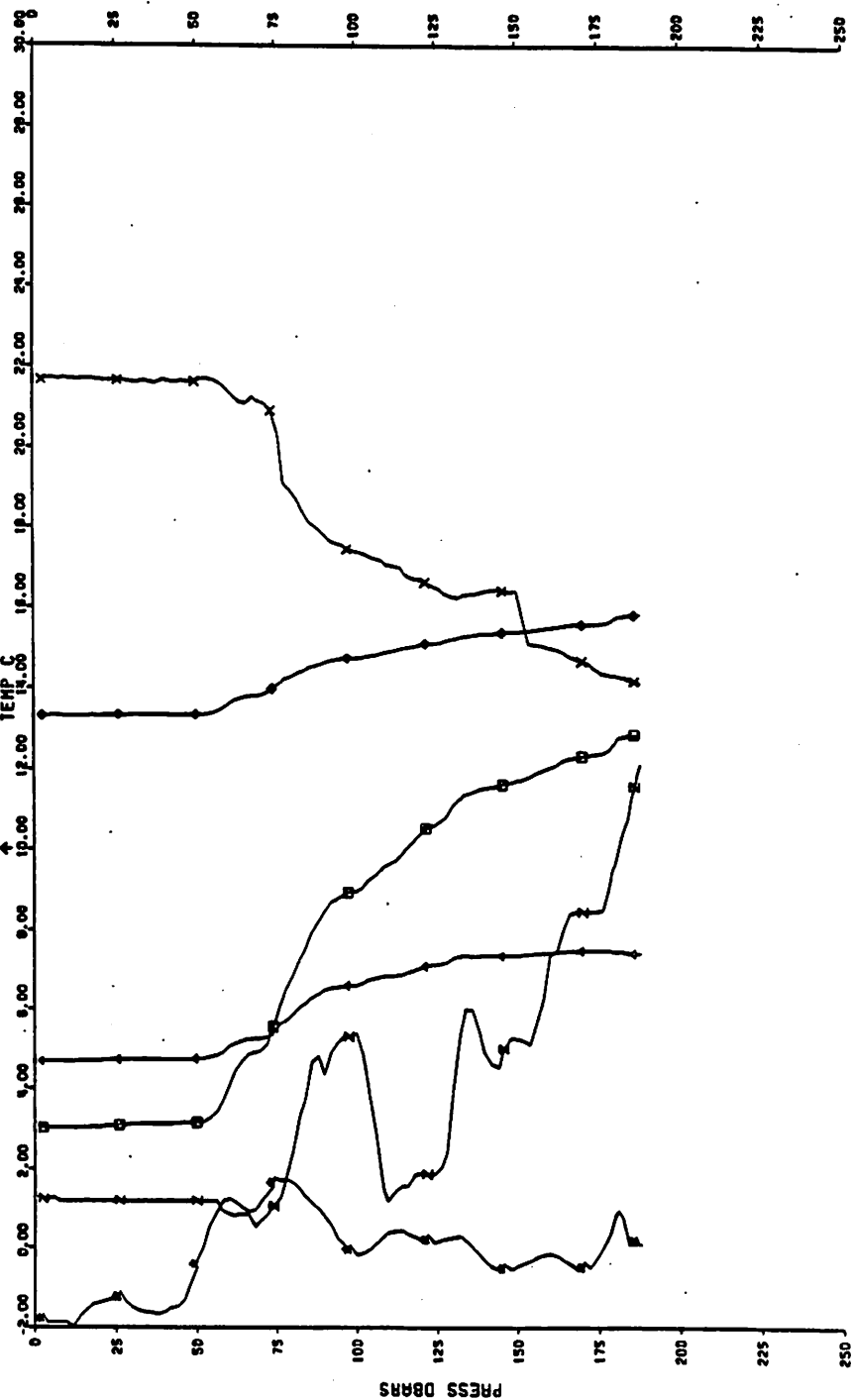
0C181B CAST #62

| | | | | | | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0.00 | 3.13 | 6.25 | 9.38 | 12.50 | 15.63 | 18.75 | 21.87 | N CPH | 25.00 | 28.12 | 31.25 | 34.38 | 37.50 | 40.63 | 43.75 | 46.88 | 50.00 |
| 0.00 | 0.05 | 0.10 | 0.15 | 0.20 | 0.25 | 0.30 | 0.35 | RAIN COEFF | 0.40 | 0.45 | 0.50 | 0.55 | 0.60 | 0.65 | 0.70 | 0.75 | 0.80 |
| 0.00 | 0.03 | 1.25 | 1.68 | 2.50 | 3.13 | 3.75 | 4.38 | OXYGEN ML/L | 5.00 | 5.63 | 6.25 | 6.88 | 7.50 | 8.13 | 8.75 | 9.38 | 10.00 |
| 22.00 | 22.50 | 23.00 | 23.50 | 24.00 | 24.50 | 25.00 | 25.50 | SIGMA-T KG/MM ² | 26.00 | 26.50 | 27.00 | 27.50 | 28.00 | 28.50 | 29.00 | 29.50 | 30.00 |
| 32.00 | 32.25 | 32.50 | 32.75 | 33.00 | 33.25 | 33.50 | 33.75 | SALINITY PSU | 34.00 | 34.25 | 34.50 | 34.75 | 35.00 | 35.25 | 35.50 | 35.75 | 36.00 |



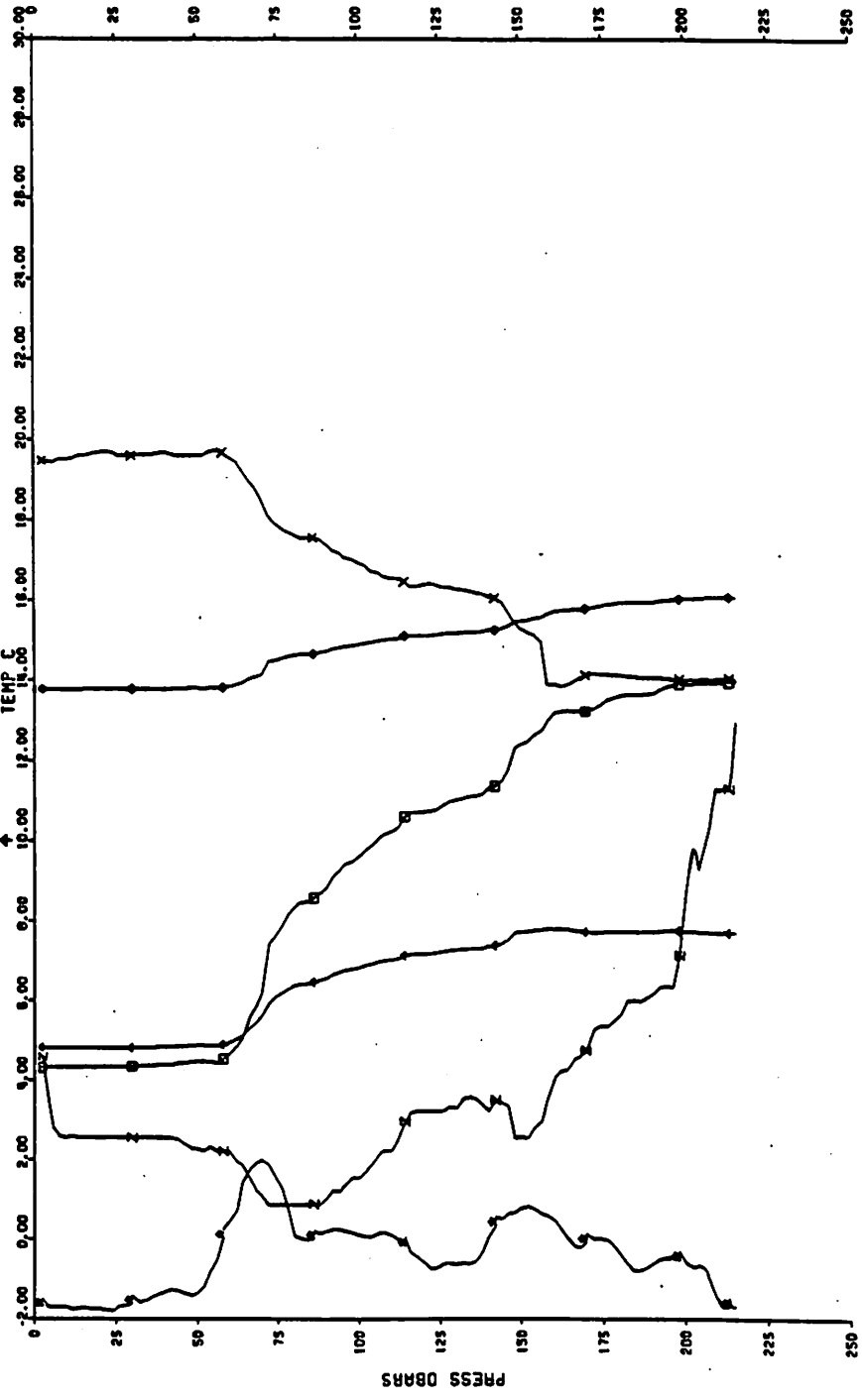
0C181B CAST #63

| | | | | | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|
| 0.00 | 3.13 | 6.25 | 9.38 | 12.50 | 15.63 | 18.75 | 21.87 | 25.00 | 28.12 | 31.25 | 34.38 | 37.50 | 40.63 | 43.75 | 46.88 | 50.00 |
| 6.00 | 9.05 | 12.10 | 15.15 | 18.20 | 21.25 | 24.30 | 27.35 | 30.40 | 33.45 | 36.50 | 39.55 | 42.60 | 45.65 | 48.70 | 51.75 | 54.80 |
| 0.00 | 0.60 | 1.25 | 1.90 | 2.50 | 3.13 | 3.75 | 4.38 | 5.00 | 5.63 | 6.25 | 6.88 | 7.50 | 8.13 | 8.75 | 9.38 | 10.00 |
| 22.00 | 27.50 | 33.00 | 38.50 | 44.00 | 49.50 | 55.00 | 60.50 | 66.00 | 71.50 | 77.00 | 82.50 | 88.00 | 93.50 | 99.00 | 104.50 | 110.00 |
| 32.00 | 37.25 | 42.50 | 47.75 | 53.00 | 58.25 | 63.50 | 68.75 | 74.00 | 79.25 | 84.50 | 89.75 | 95.00 | 100.25 | 105.50 | 110.75 | 116.00 |



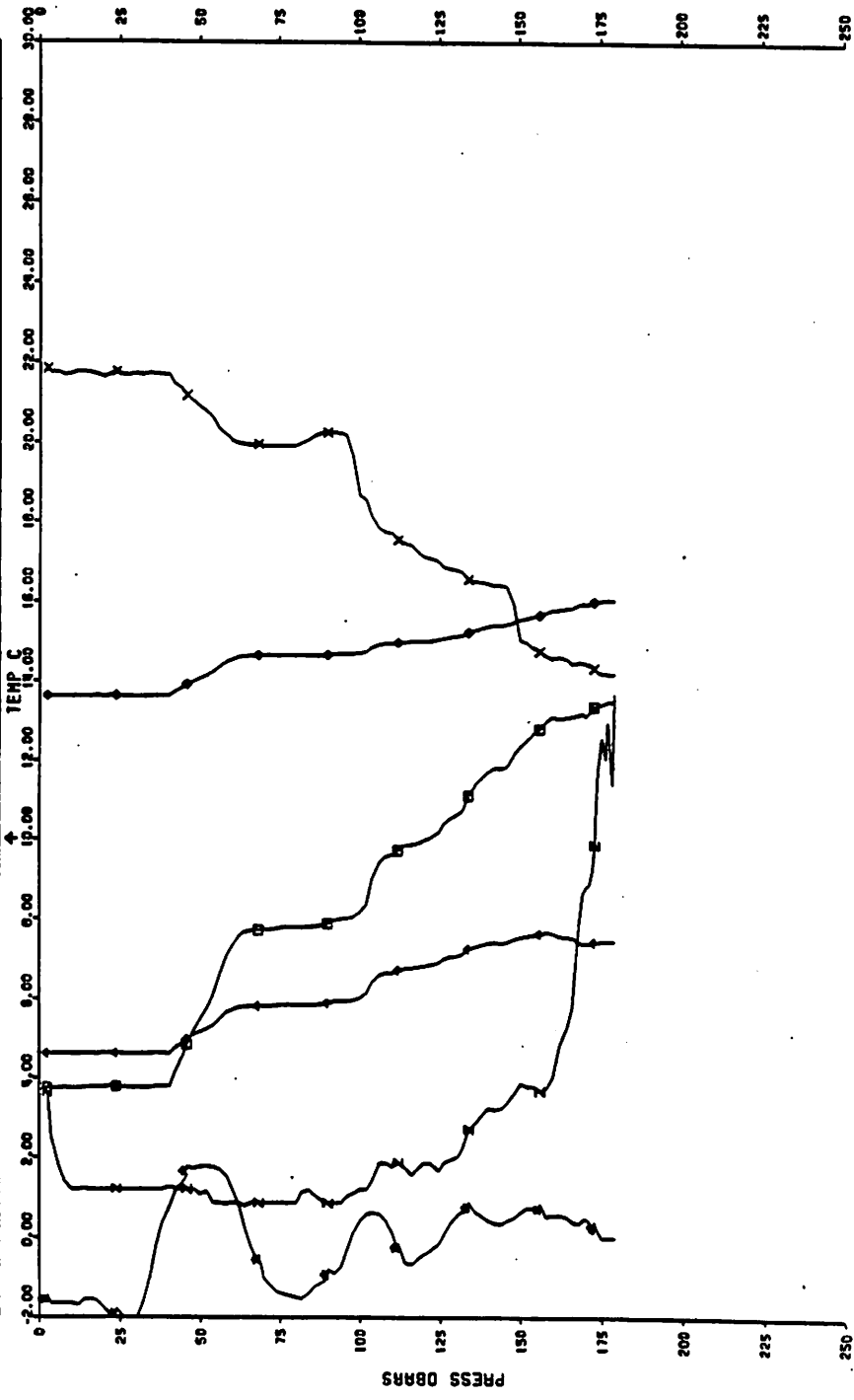
0C181A CAST #64

| | | | | | | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-----------|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0.00 | 3.13 | 0.25 | 0.30 | 12.50 | 15.03 | 18.75 | 21.07 | N CPH | 25.00 | 29.12 | 31.25 | 34.38 | 37.50 | 40.63 | 43.75 | 46.88 | 50.00 |
| 0.00 | 0.05 | 0.10 | 0.15 | 0.20 | 0.25 | 0.30 | 0.35 | RTN COEFF | M- | 0.40 | 0.50 | 0.55 | 0.60 | 0.65 | 0.70 | 0.75 | 0.80 |
| 0.00 | 0.63 | 1.25 | 1.88 | 2.50 | 3.13 | 3.75 | 4.38 | OXYGEN | ML/L | 5.03 | 0.25 | 0.00 | 7.50 | 0.19 | 0.75 | 0.38 | 10.00 |
| 22.00 | 22.50 | 23.00 | 23.50 | 24.00 | 24.50 | 25.00 | 25.50 | SIGMA-1 | MG/MM ² | 26.50 | 27.00 | 27.50 | 28.00 | 28.50 | 29.00 | 29.50 | 30.00 |
| 32.00 | 32.25 | 32.50 | 32.75 | 33.00 | 33.25 | 33.50 | 33.75 | SALINITY | PSU | 34.00 | 34.25 | 34.50 | 34.75 | 35.00 | 35.25 | 35.50 | 36.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | TEMP | C | 14.00 | 18.00 | 20.00 | 22.00 | 24.00 | 26.00 | 28.00 | 30.00 |



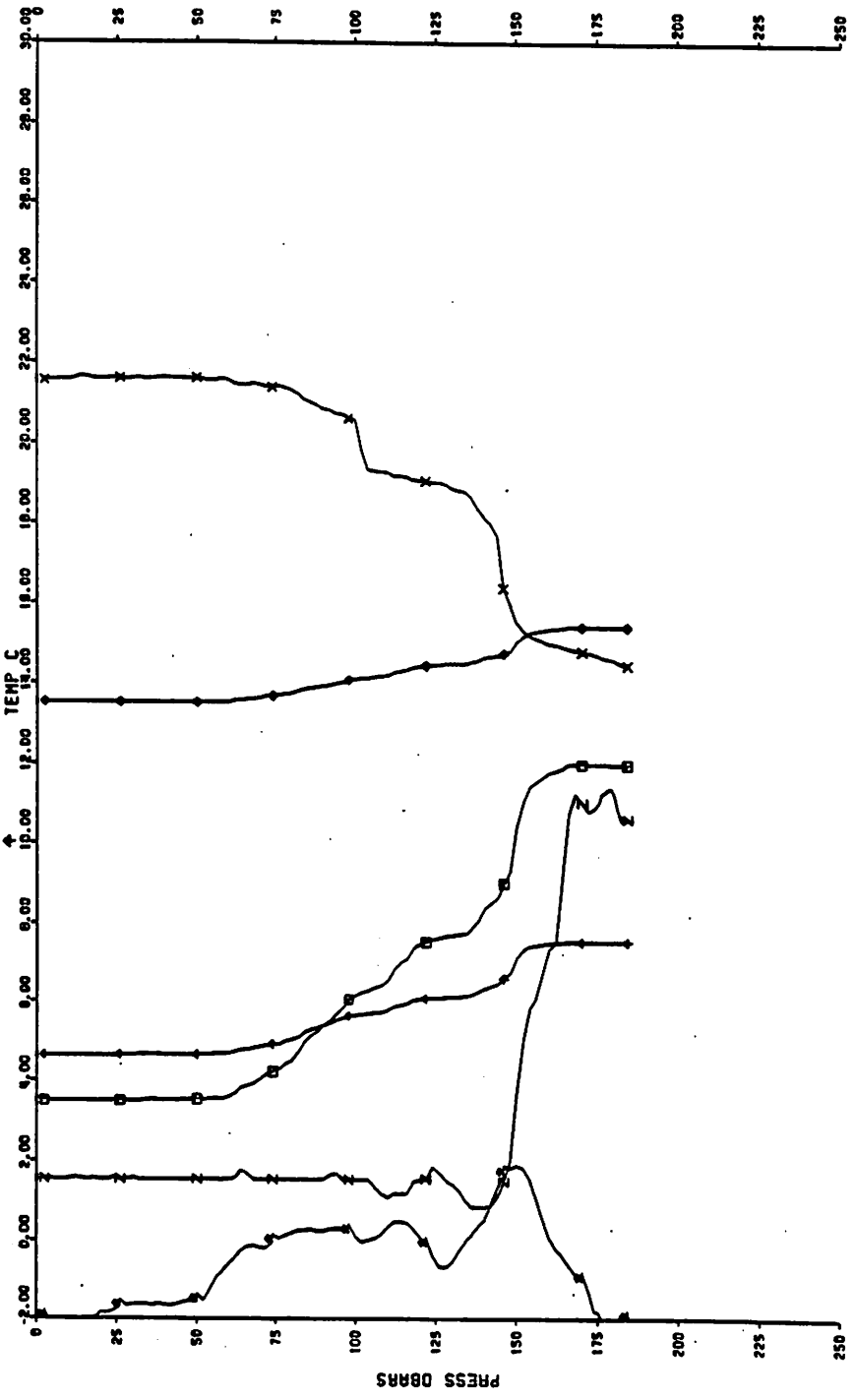
0C181B CAST #65

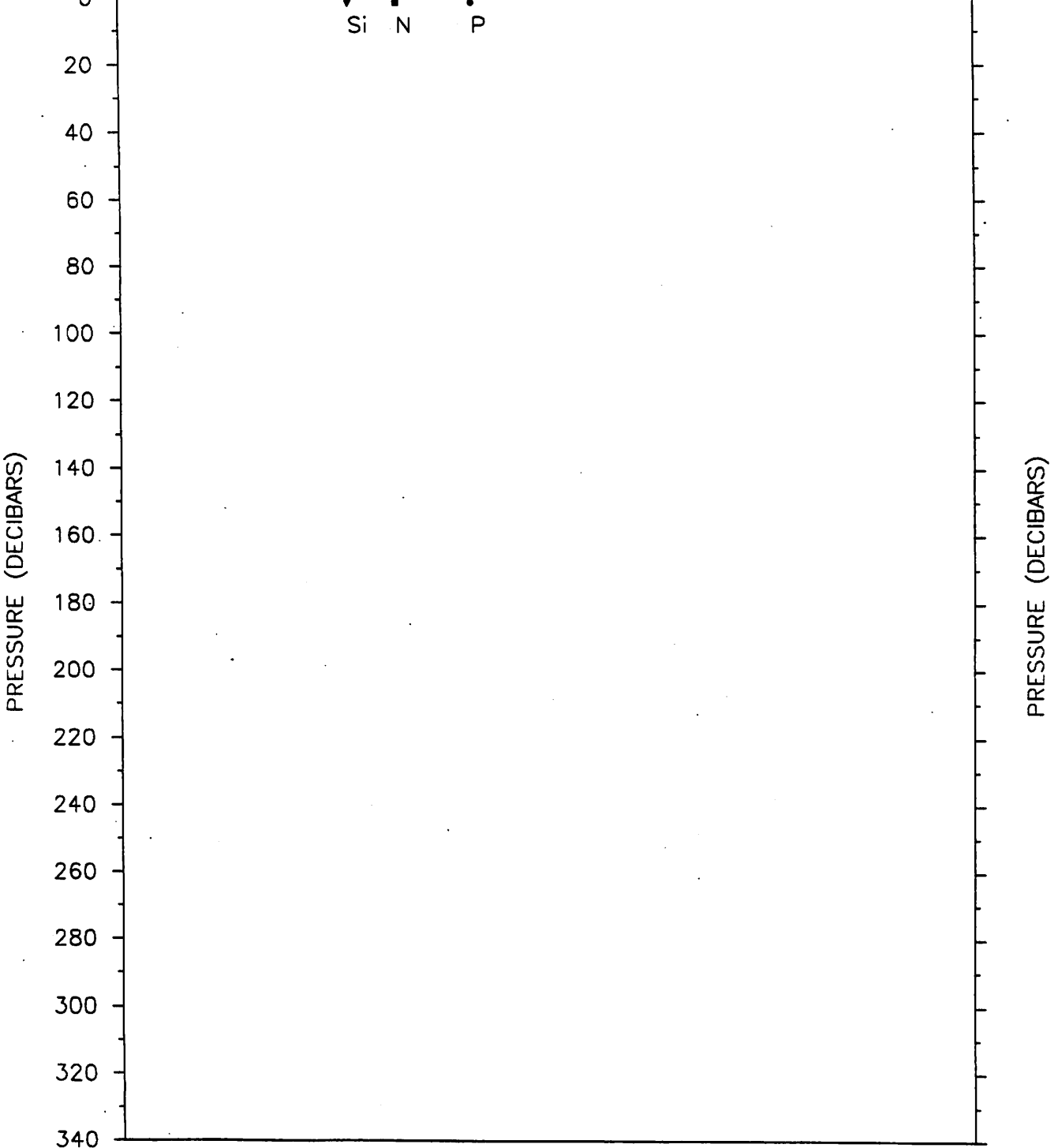
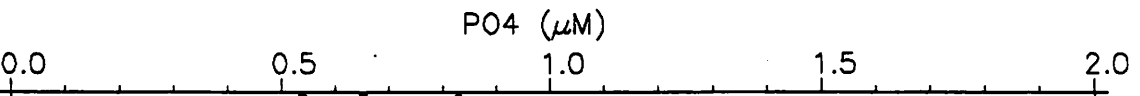
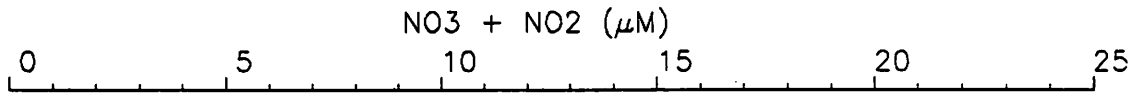
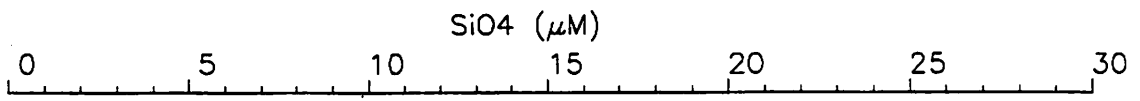
| | | | | | | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0.00 | 3.13 | 9.25 | 9.38 | 12.50 | 15.63 | 19.75 | 21.87 | M CPH | 22.00 | 24.13 | 26.25 | 28.38 | 30.50 | 32.63 | 34.75 | 36.88 | 39.00 |
| 0.00 | 0.05 | 0.10 | 0.15 | 0.20 | 0.25 | 0.30 | 0.35 | RAIN COEFF M ⁻¹ | 0.40 | 0.45 | 0.50 | 0.55 | 0.60 | 0.65 | 0.70 | 0.75 | 0.80 |
| 0.00 | 0.63 | 1.25 | 1.88 | 2.50 | 3.13 | 3.75 | 4.38 | OXYGEN ML/L | 5.00 | 5.63 | 6.25 | 6.88 | 7.50 | 8.13 | 8.75 | 9.38 | 10.00 |
| 22.00 | 27.50 | 29.00 | 29.50 | 29.00 | 28.50 | 28.00 | 27.50 | SI OHR-T KG/HW ³ | 27.00 | 27.50 | 28.00 | 28.50 | 29.00 | 29.50 | 29.00 | 28.50 | 28.00 |
| 32.00 | 32.25 | 32.50 | 32.75 | 33.00 | 33.25 | 33.50 | 33.75 | SALINITY PSU | 34.00 | 34.25 | 34.50 | 34.75 | 35.00 | 35.25 | 35.50 | 35.75 | 36.00 |



0C181U CAST #66

| | | | | | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0.00 | 3.13 | 6.25 | 9.38 | 12.50 | 15.63 | 18.75 | 21.87 | 25.00 | 28.12 | 31.25 | 34.38 | 37.50 | 40.63 | 43.75 | 46.88 | 50.00 |
| 0.00 | 0.05 | 0.10 | 0.15 | 0.20 | 0.25 | 0.30 | 0.35 | 0.40 | 0.45 | 0.50 | 0.55 | 0.60 | 0.65 | 0.70 | 0.75 | 0.80 |
| 0.00 | 0.63 | 1.25 | 1.88 | 2.50 | 3.13 | 3.75 | 4.38 | 5.00 | 5.63 | 6.25 | 6.88 | 7.50 | 8.13 | 8.75 | 9.38 | 10.00 |
| 22.00 | 22.50 | 23.00 | 23.50 | 24.00 | 24.50 | 25.00 | 25.50 | 26.00 | 26.50 | 27.00 | 27.50 | 28.00 | 28.50 | 29.00 | 29.50 | 30.00 |
| 32.00 | 32.25 | 32.50 | 32.75 | 33.00 | 33.25 | 33.50 | 33.75 | 34.00 | 34.25 | 34.50 | 34.75 | 35.00 | 35.25 | 35.50 | 35.75 | 36.00 |
| 0 | 2.00 | 4.00 | 6.00 | 8.00 | 10.00 | 12.00 | 14.00 | 16.00 | 18.00 | 20.00 | 22.00 | 24.00 | 26.00 | 28.00 | 30.00 | 32.00 |

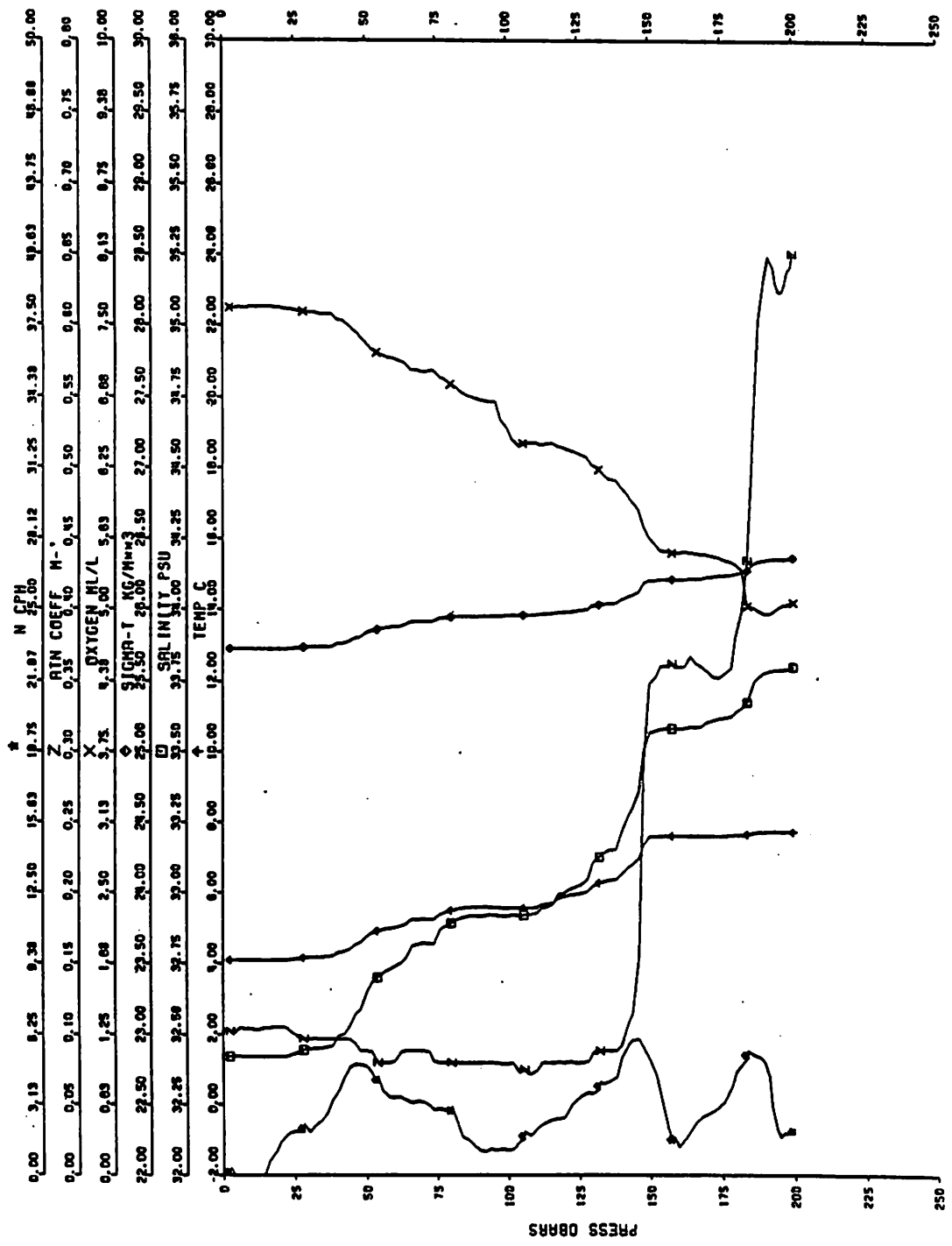


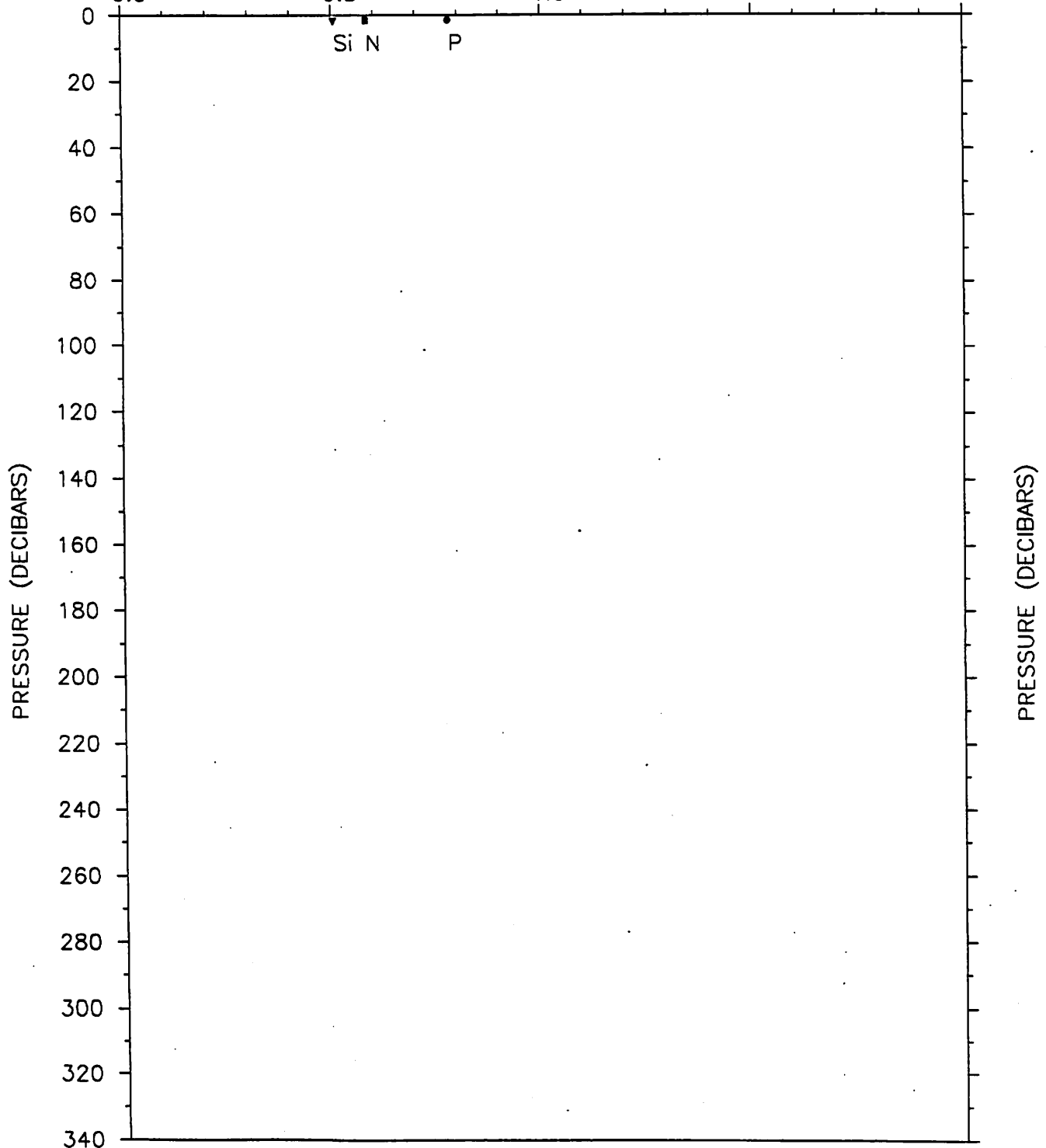
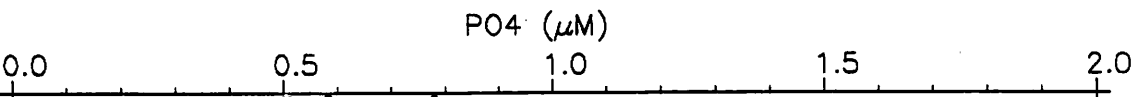
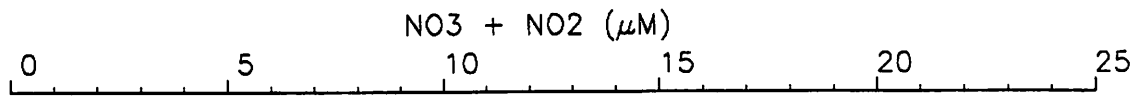
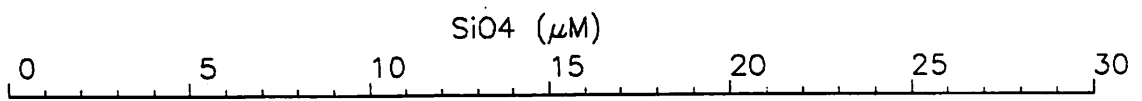


CRUISE: OC181
12 FEB 87
13: 45: 00 GMT

STATION: 66
43 00.10 N
68 41.06 W

OCIBIA CAST #67



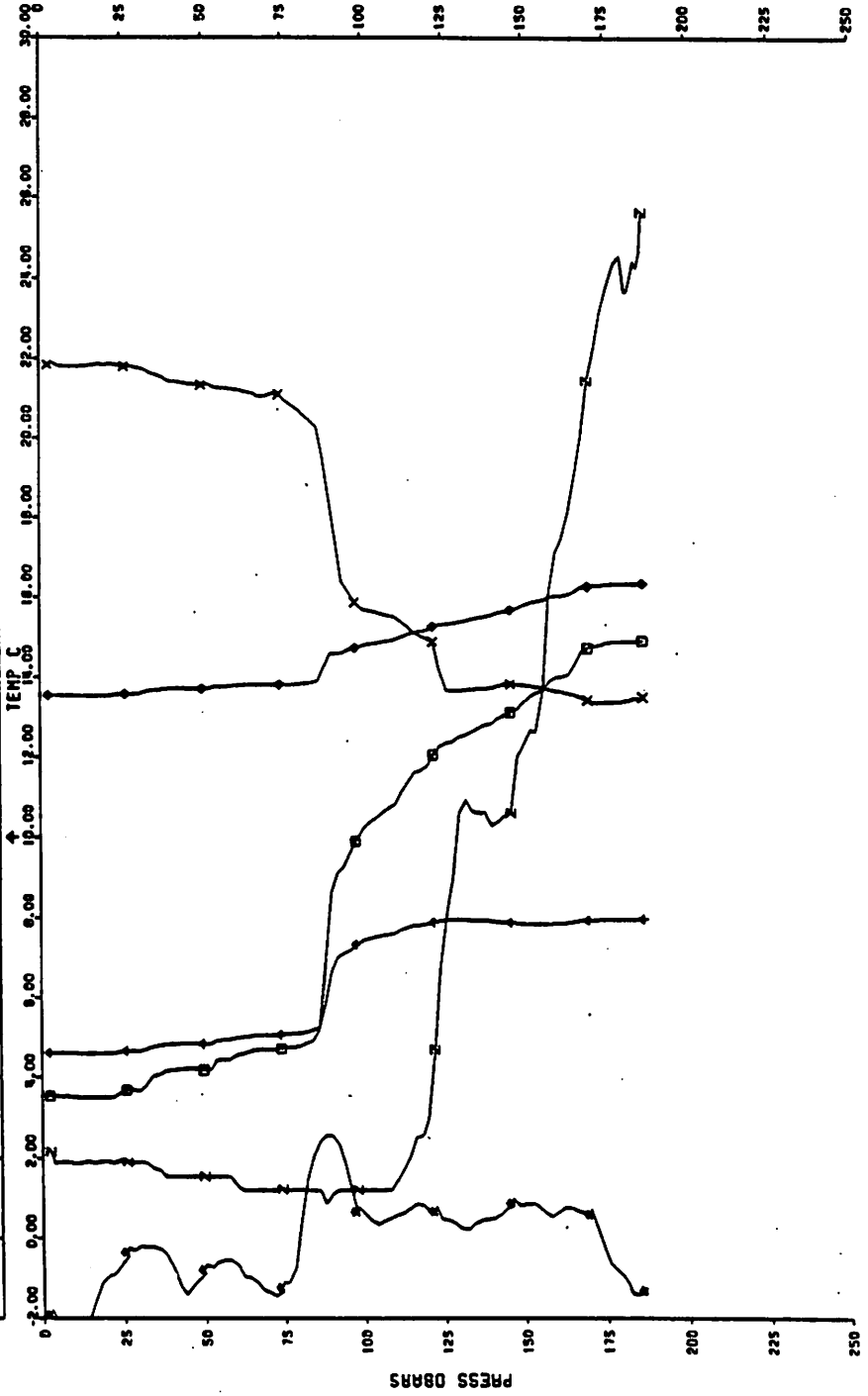


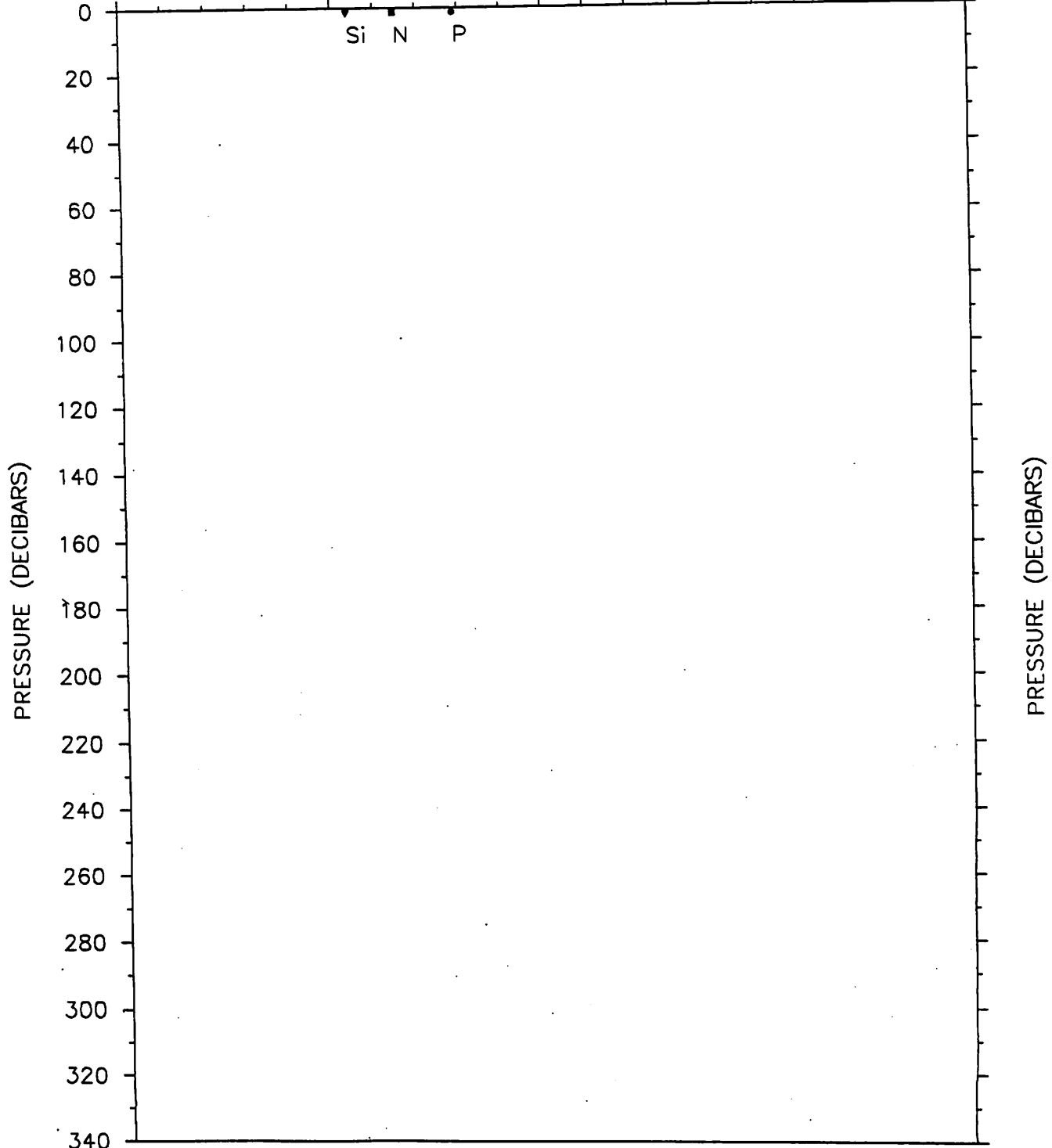
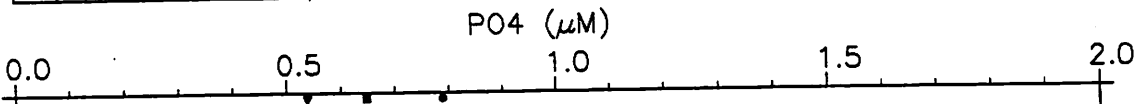
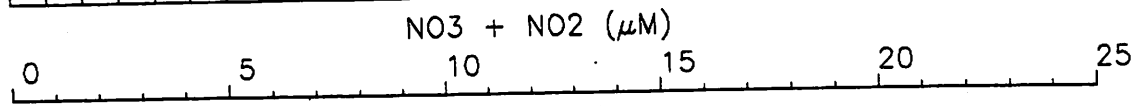
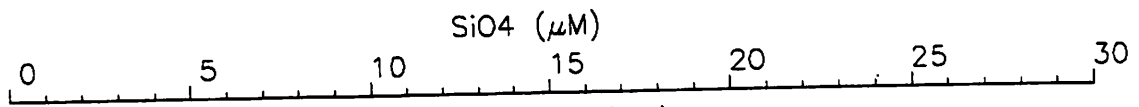
CRUISE: OC181
12 FEB 87
15: 15: 00 GMT

STATION: 67
43 05.99 N
68 29.95 W

0C181A CAST #68

| | | | | | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0.00 | 3.13 | 8.25 | 9.38 | 12.50 | 15.63 | 18.75 | 21.87 | 25.00 | 28.12 | 31.25 | 34.38 | 37.50 | 40.63 | 43.75 | 46.88 | 50.00 |
| | | | | | | | | | | | | | | | | |
| 0.00 | 0.05 | 0.10 | 0.15 | 0.20 | 0.25 | 0.30 | 0.35 | 0.40 | 0.45 | 0.50 | 0.55 | 0.60 | 0.65 | 0.70 | 0.75 | 0.80 |
| | | | | | | | | | | | | | | | | |
| 0.00 | 0.03 | 1.25 | 1.08 | 2.50 | 3.13 | 3.75 | 4.38 | 5.00 | 5.63 | 6.25 | 6.88 | 7.50 | 8.13 | 8.75 | 9.38 | 10.00 |
| | | | | | | | | | | | | | | | | |
| 22.00 | 22.50 | 23.00 | 23.50 | 24.00 | 24.50 | 25.00 | 25.50 | 26.00 | 26.50 | 27.00 | 27.50 | 28.00 | 28.50 | 29.00 | 29.50 | 30.00 |
| | | | | | | | | | | | | | | | | |
| 32.00 | 32.25 | 32.50 | 32.75 | 33.00 | 33.25 | 33.50 | 33.75 | 34.00 | 34.25 | 34.50 | 34.75 | 35.00 | 35.25 | 35.50 | 35.75 | 36.00 |
| | | | | | | | | | | | | | | | | |

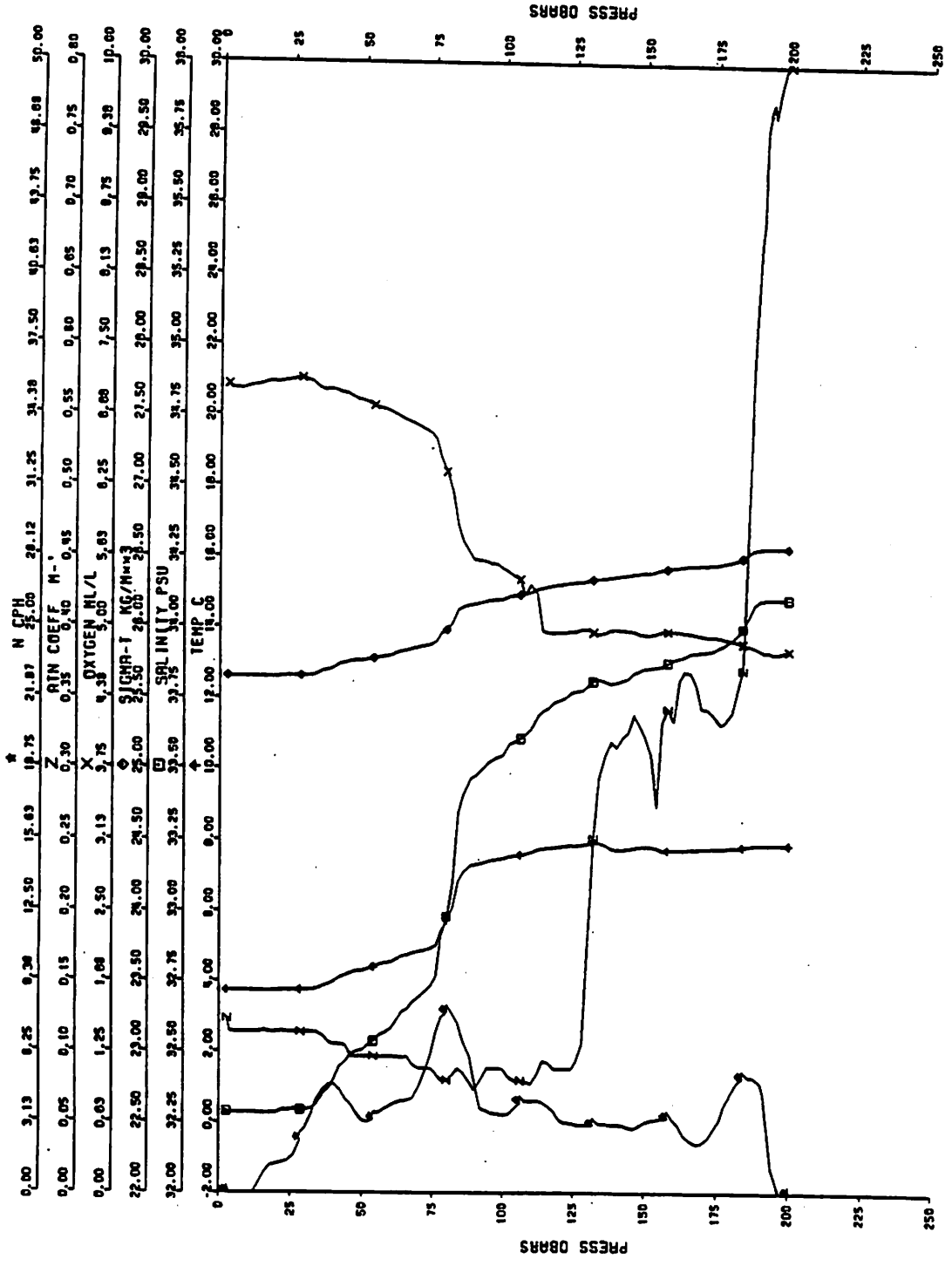




CRUISE: OC181
12 FEB 87
16: 37: 30 GMT

STATION: 68
43 12.50 N
68 20.03 W

OCIBIA CAST #69



SiO4 (μM)

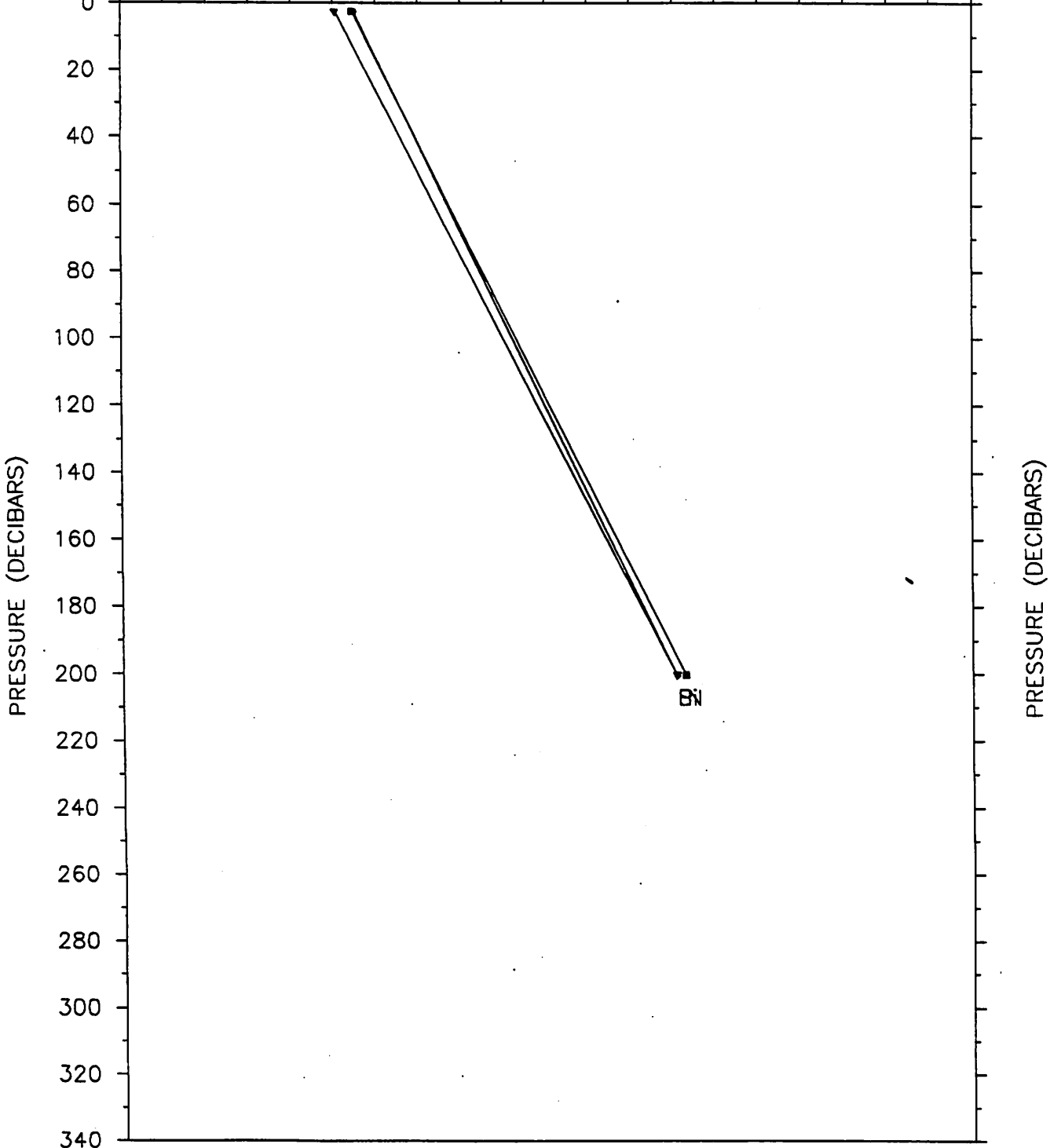
0 5 10 15 20 25 30

NO3 + NO2 (μM)

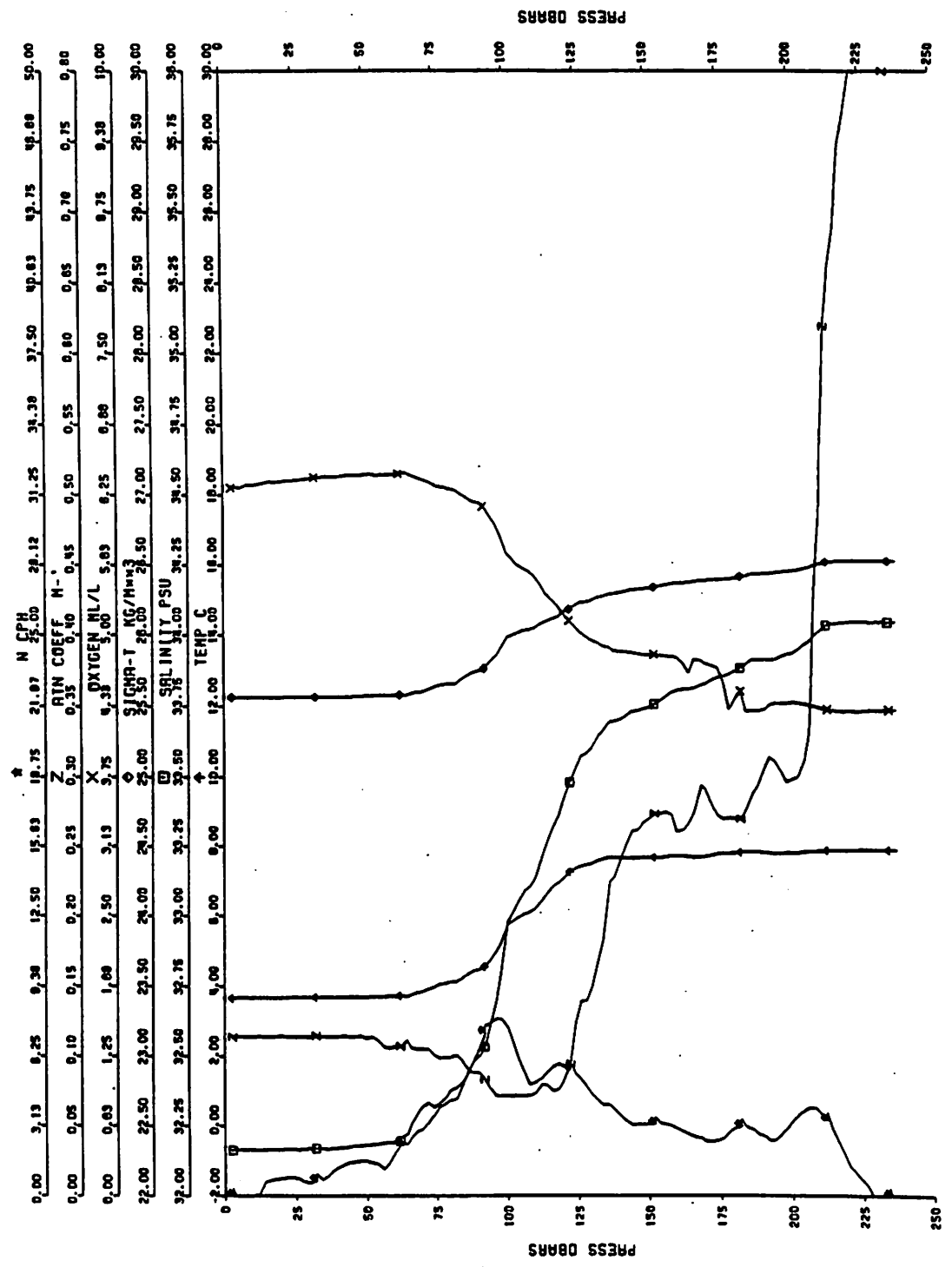
0 5 10 15 20 25

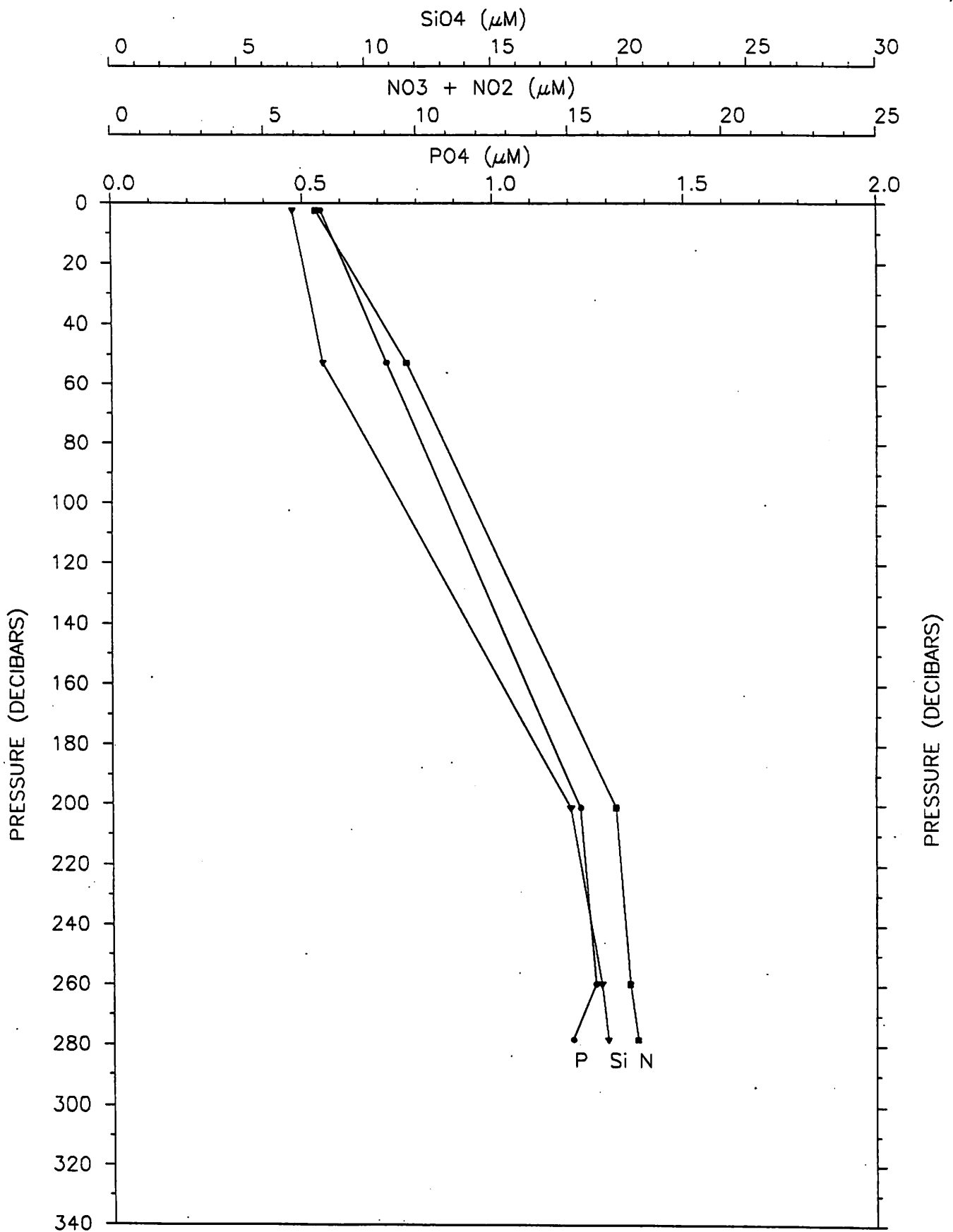
PO4 (μM)

0.0 0.5 1.0 1.5 2.0



0C181B CAST #70



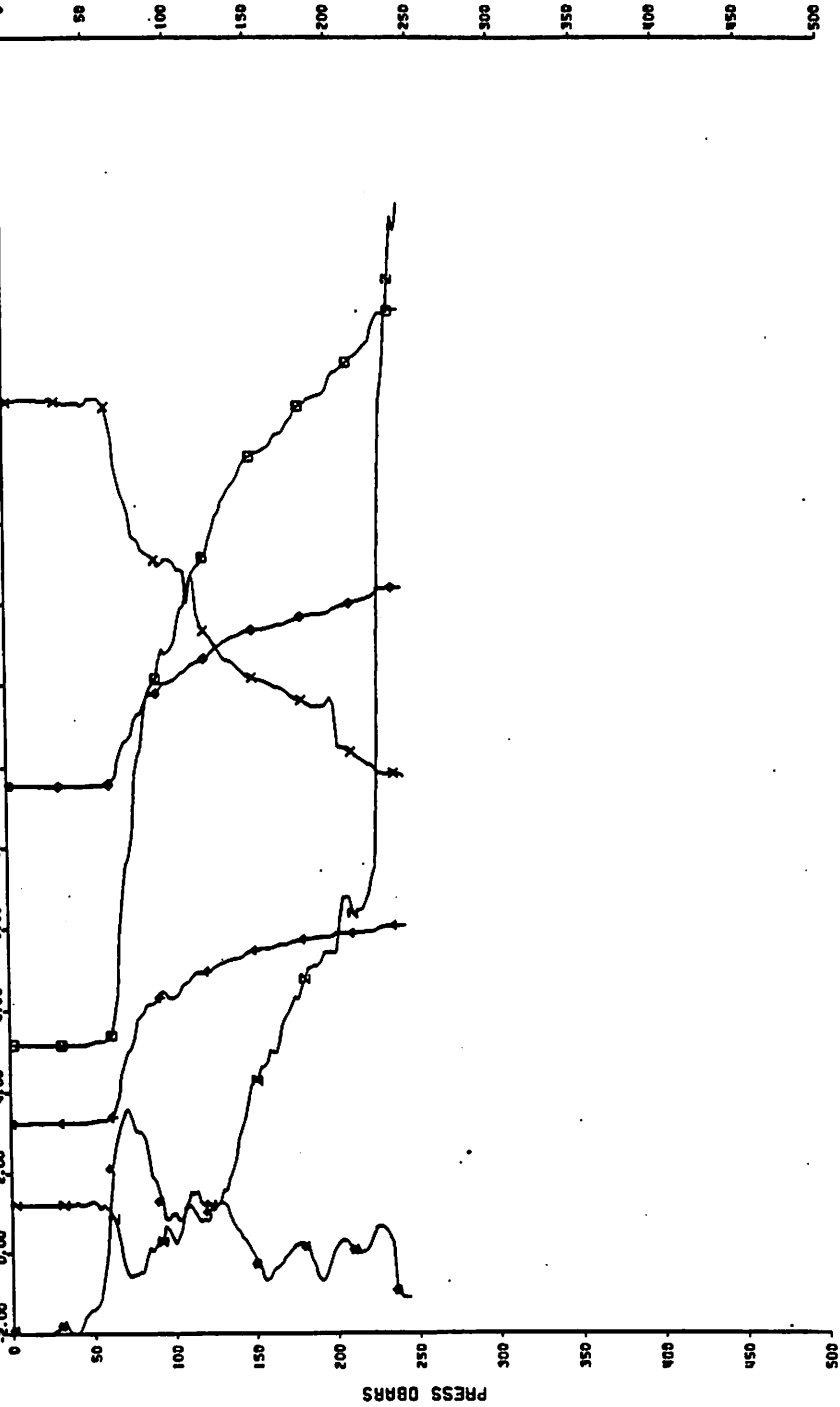


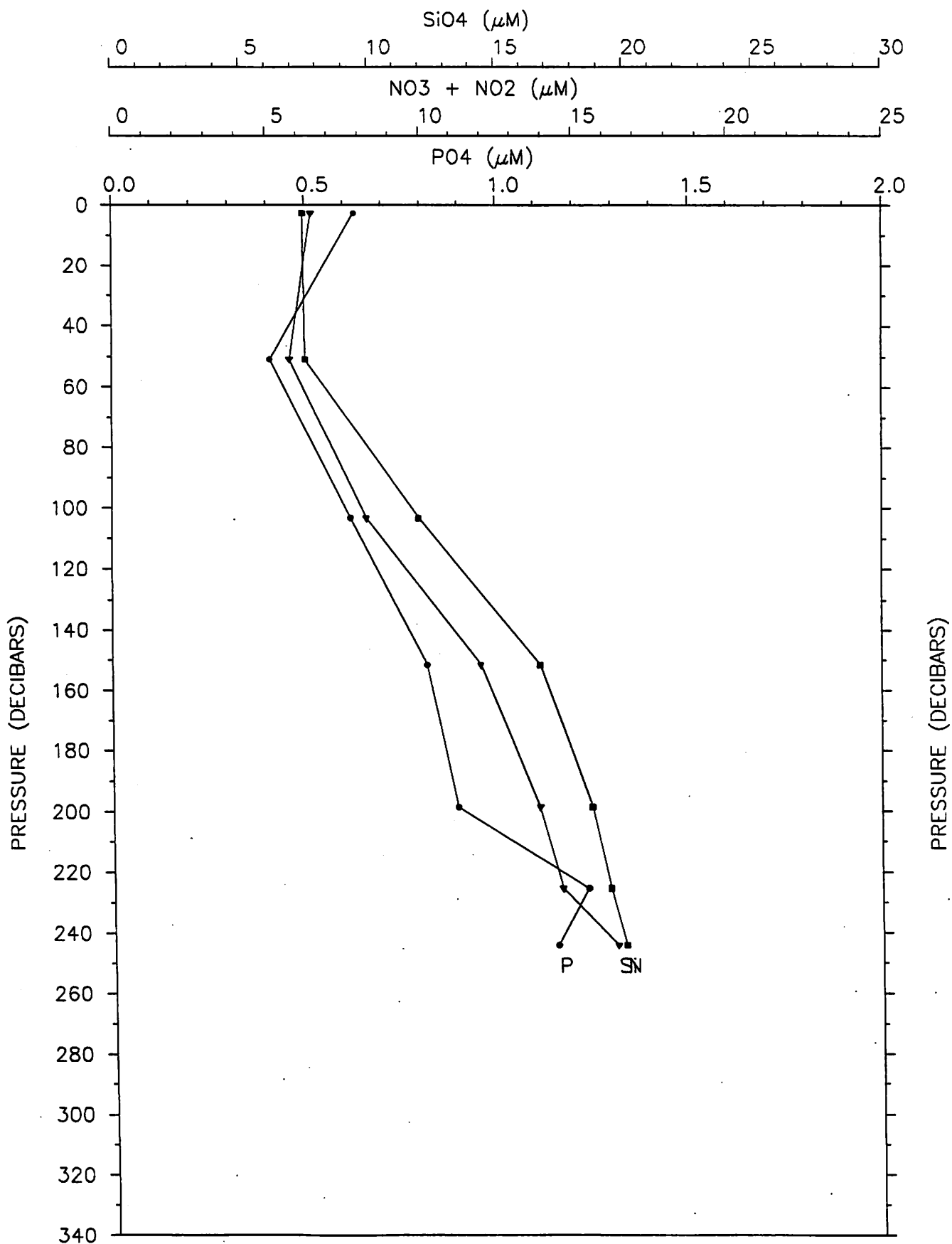
CRUISE: OC181
 12 FEB 87
 22: 15: 00 GMT

STATION: 71
 43 29.39 N
 67 52.36 W

0C181U CAST #72

| | | | | | | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|--------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0.00 | 3.13 | 0.25 | 0.38 | 12.50 | 15.83 | 19.75 | 21.07 | M CPH | 21.00 | 28.12 | 31.25 | 34.38 | 37.50 | 40.63 | 43.75 | 46.88 | 50.00 |
| 0.00 | 0.05 | 0.10 | 0.15 | 0.20 | 0.25 | 0.30 | 0.35 | RIN COEFF | 0.40 | 0.45 | 0.50 | 0.55 | 0.60 | 0.65 | 0.70 | 0.75 | 0.80 |
| 0.00 | 0.03 | 1.25 | 1.08 | 2.50 | 2.13 | 2.75 | 4.38 | OXYGEN ML/L | 5.00 | 5.83 | 6.25 | 6.88 | 7.50 | 8.13 | 8.75 | 9.38 | 10.00 |
| 22.00 | 22.50 | 23.00 | 23.50 | 24.00 | 24.50 | 25.00 | 25.50 | SIGMA-T | 26.00 | 27.50 | 28.00 | 28.50 | 29.00 | 29.50 | 30.00 | 30.50 | 31.00 |
| 31.00 | 31.25 | 31.50 | 31.75 | 32.00 | 32.25 | 32.50 | 32.75 | SALINITY PSU | 33.00 | 33.25 | 33.50 | 33.75 | 34.00 | 34.25 | 34.50 | 34.75 | 35.00 |
| 0 | 2.00 | 4.00 | 6.00 | 8.00 | 10.00 | 12.00 | 14.00 | TEMP C | 16.00 | 18.00 | 20.00 | 22.00 | 24.00 | 26.00 | 28.00 | 30.00 | 32.00 |

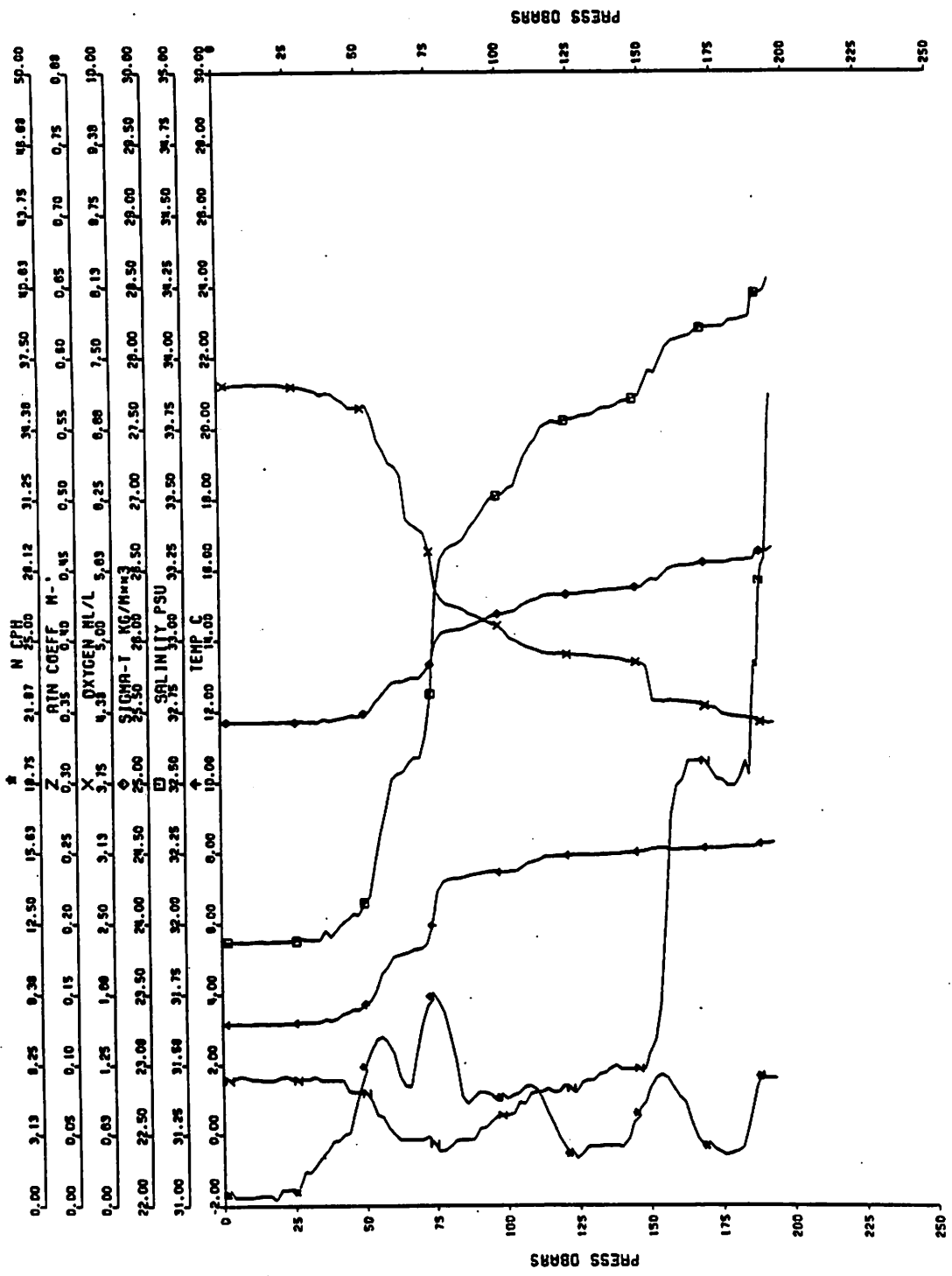


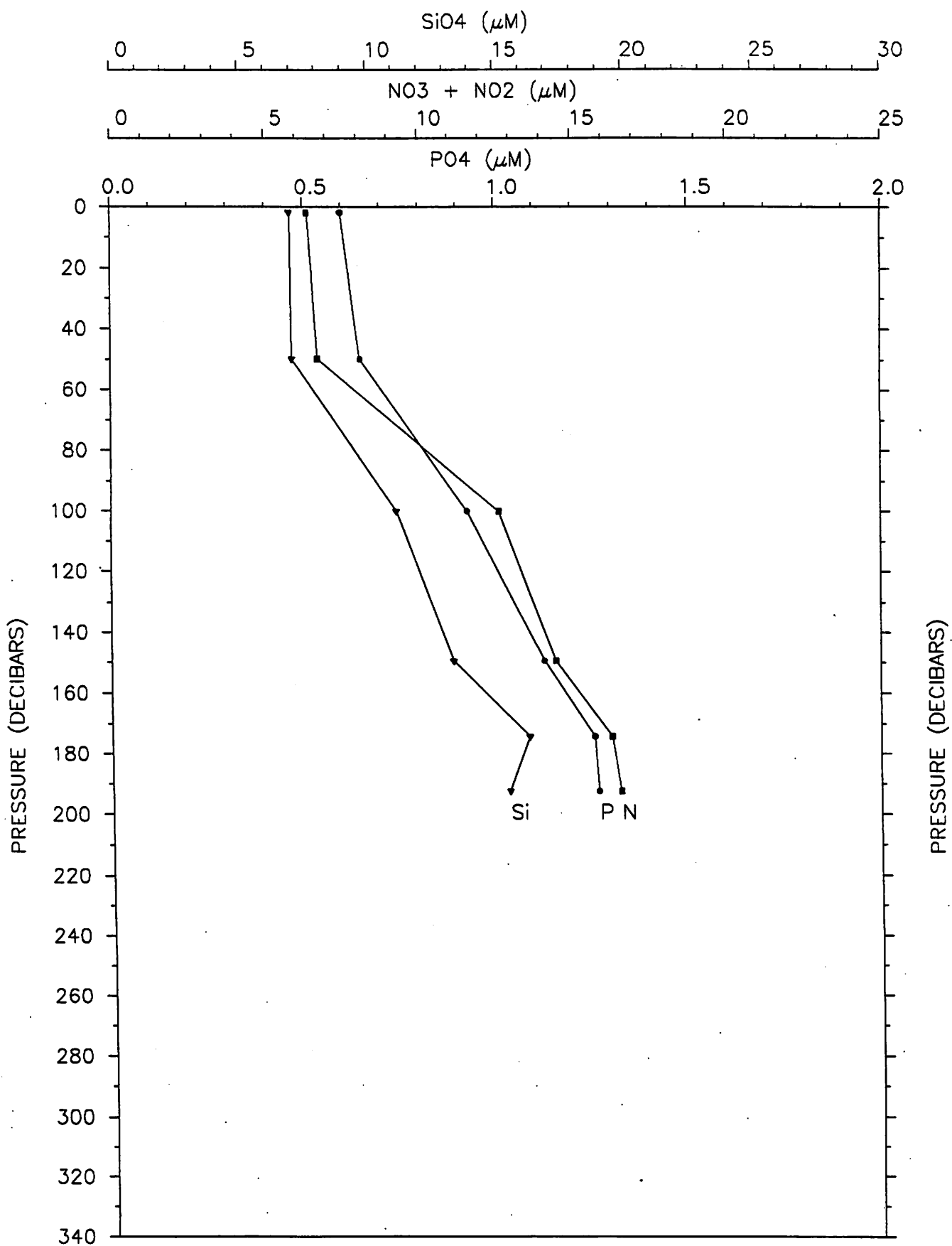


CRUISE: OC181
 13 FEB 87
 00: 07: 30 GMT

STATION: 72
 43 24.63 N
 67 42.15 W

0C181U CAST #73



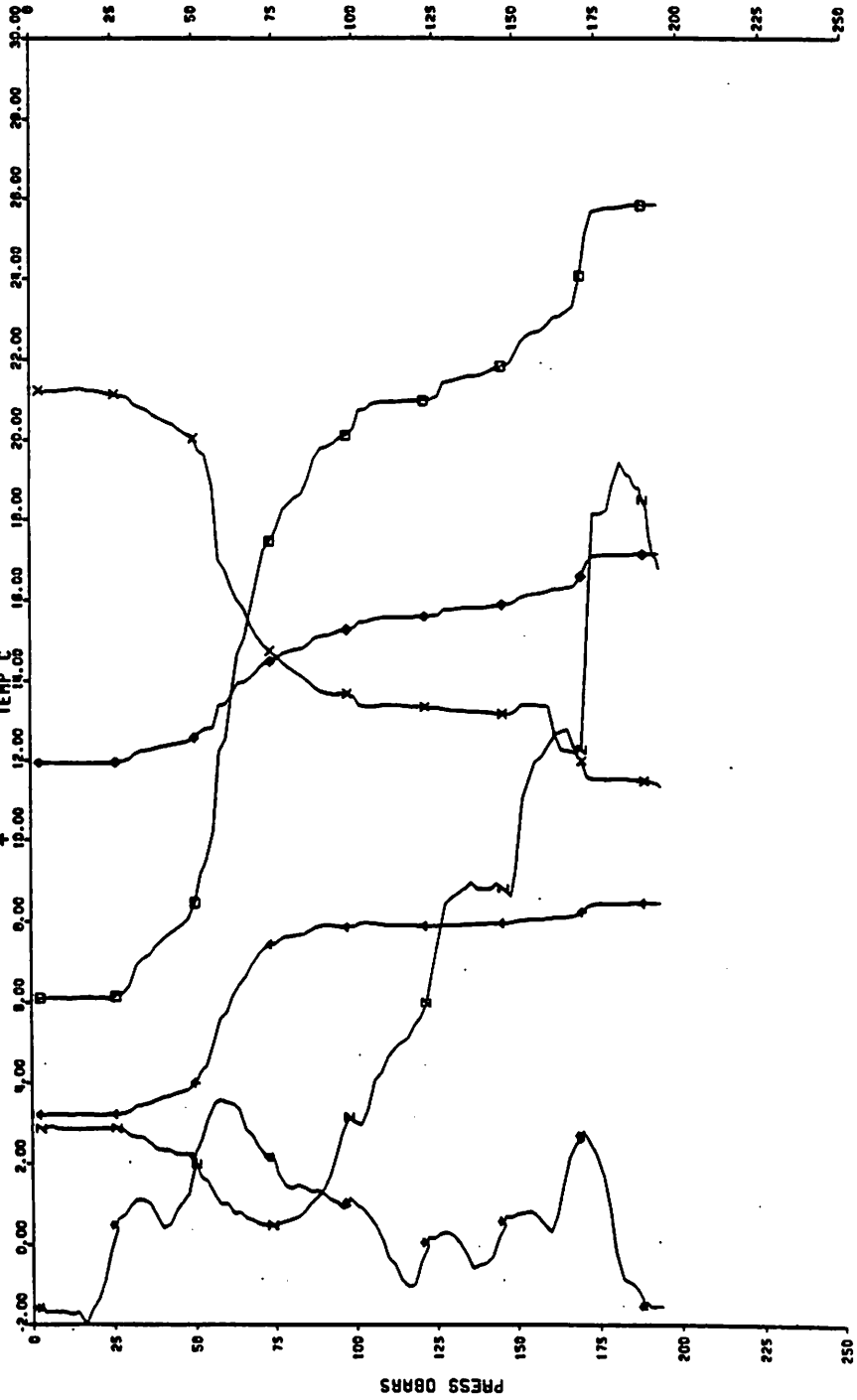


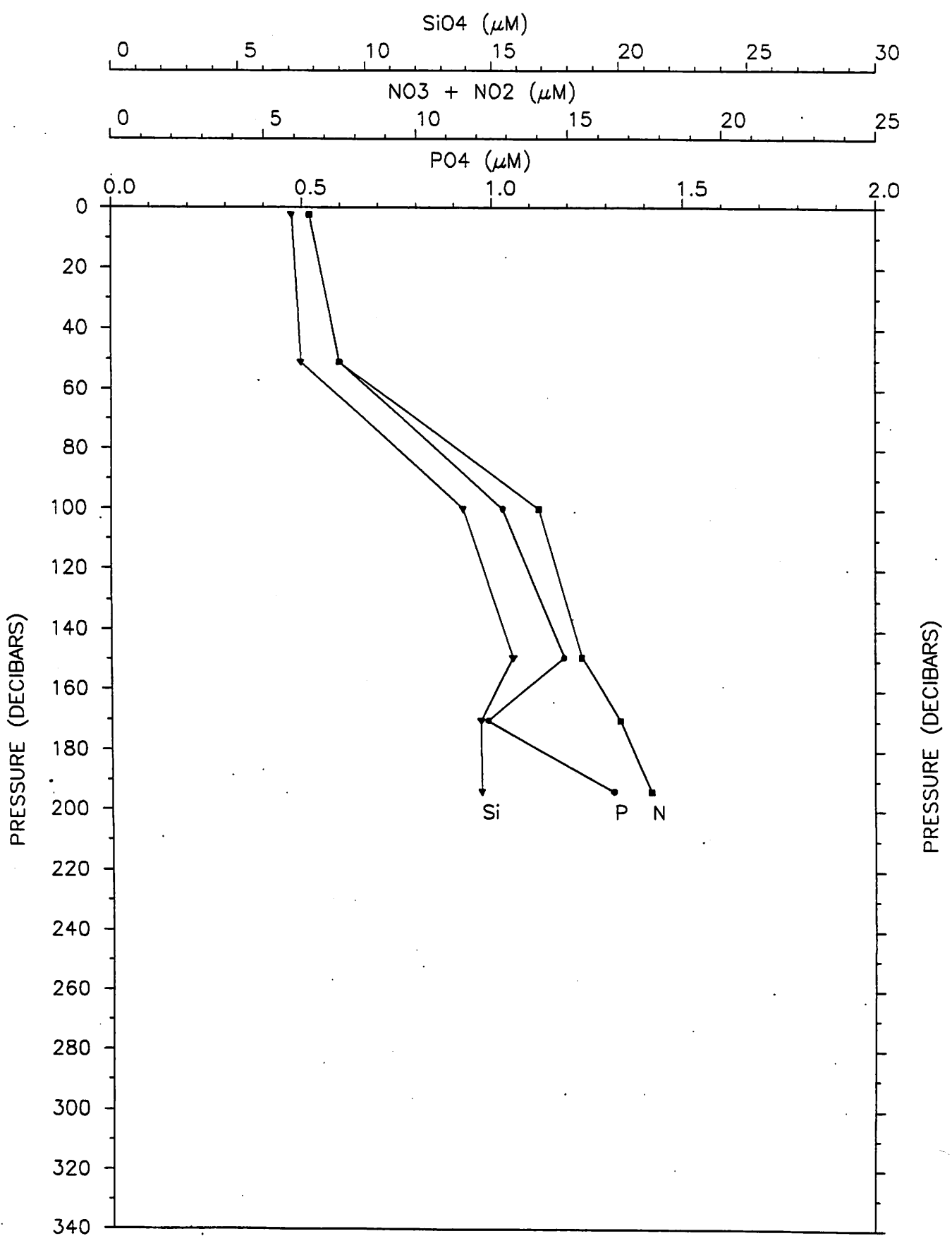
CRUISE: OC181
 13 FEB 87
 01: 52: 30 GMT.

STATION: 73
 43 18.18 N
 67 31.45 W

0C181U CAST #74

| | | | | | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0.00 | 3.13 | 6.25 | 9.38 | 12.50 | 15.63 | 18.75 | 21.87 | 25.00 | 28.12 | 31.25 | 34.38 | 37.50 | 40.63 | 43.75 | 46.88 | 50.00 |
| 0.00 | 0.05 | 0.10 | 0.15 | 0.20 | 0.25 | 0.30 | 0.35 | 0.40 | 0.45 | 0.50 | 0.55 | 0.60 | 0.65 | 0.70 | 0.75 | 0.80 |
| 0.00 | 0.03 | 1.25 | 1.68 | 2.50 | 3.13 | 3.75 | 4.38 | 5.00 | 5.63 | 6.25 | 6.88 | 7.50 | 8.13 | 8.75 | 9.38 | 10.00 |
| 22.00 | 22.50 | 23.00 | 23.50 | 24.00 | 24.50 | 25.00 | 25.50 | 26.00 | 26.50 | 27.00 | 27.50 | 28.00 | 28.50 | 29.00 | 29.50 | 30.00 |
| 31.00 | 31.25 | 31.50 | 31.75 | 32.00 | 32.25 | 32.50 | 32.75 | 33.00 | 33.25 | 33.50 | 33.75 | 34.00 | 34.25 | 34.50 | 34.75 | 35.00 |



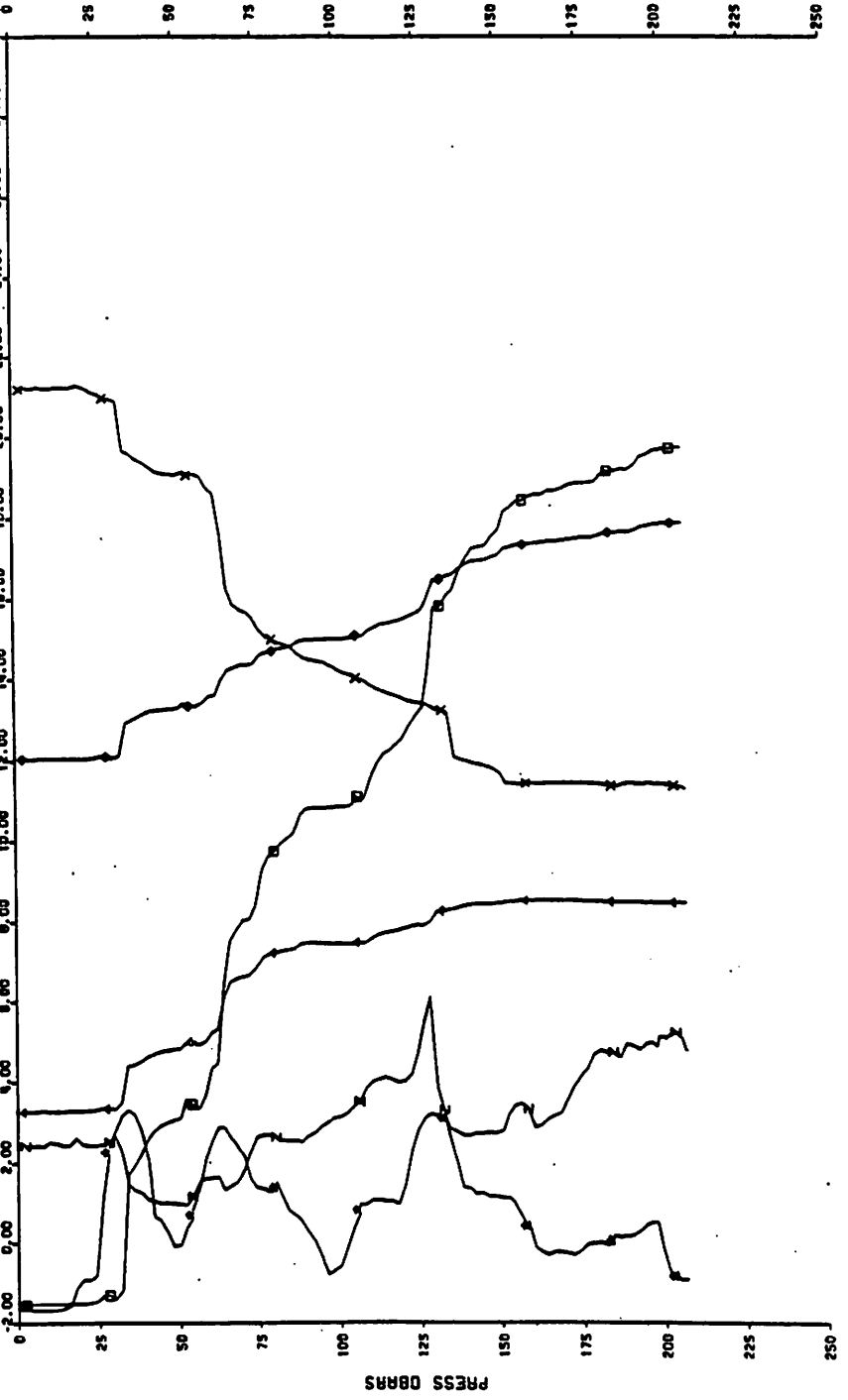


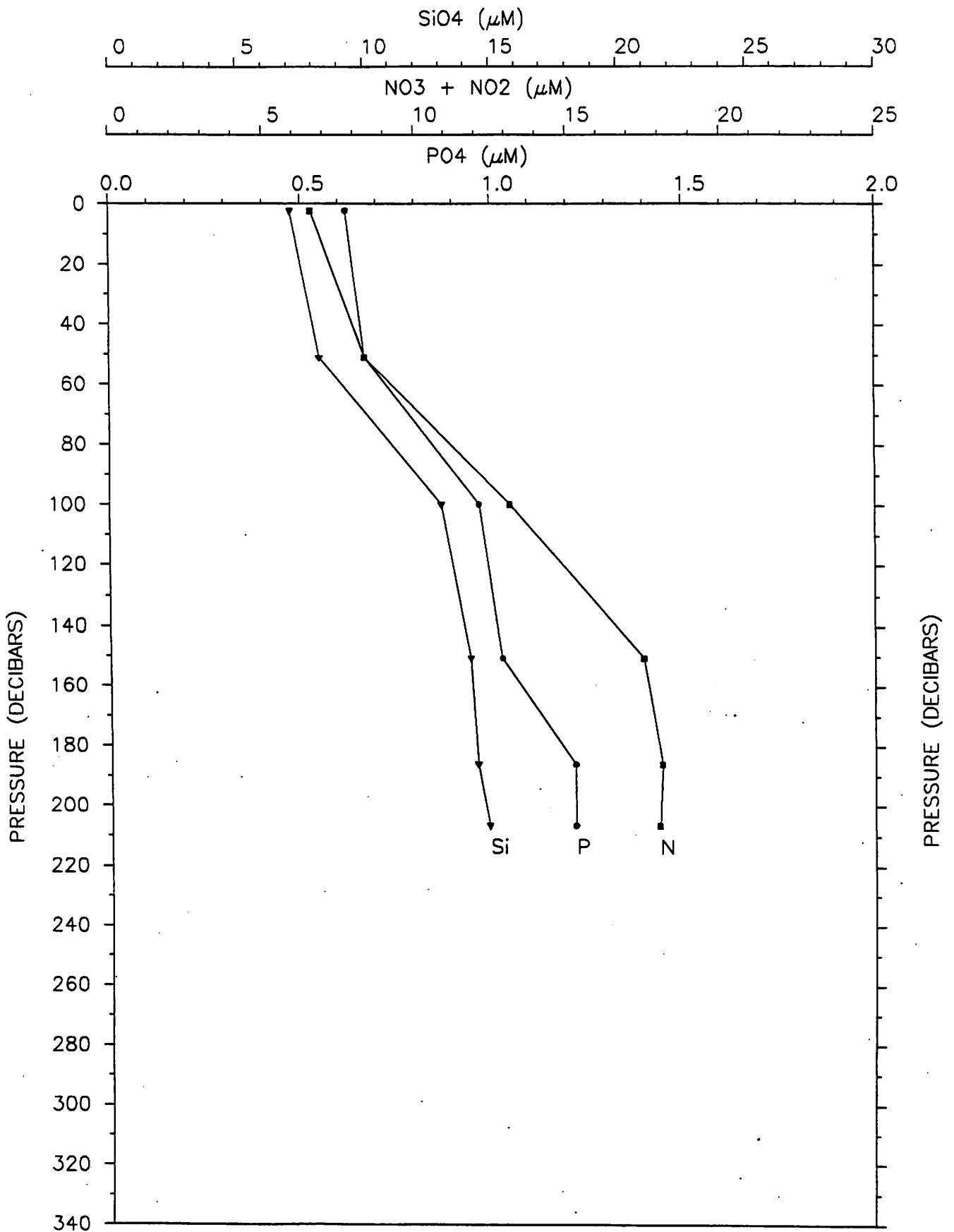
CRUISE: OC181
 13 FEB 87
 01: 07: 30 GMT

STATION: 74
 43 11.97 N
 67 20.86 W

0C181U CAST #75

| | | | | | | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|---------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0.00 | 3.13 | 9.25 | 9.38 | 12.50 | 15.63 | 19.75 | 21.87 | N CPH | 25.00 | 28.12 | 31.25 | 34.38 | 37.50 | 40.63 | 43.75 | 46.88 | 50.00 |
| 0.00 | 0.05 | 0.10 | 0.15 | 0.20 | 0.25 | 0.30 | 0.35 | RAIN COEFF M- | 0.40 | 0.45 | 0.50 | 0.55 | 0.60 | 0.65 | 0.70 | 0.75 | 0.80 |
| 0.00 | 0.03 | 1.25 | 1.68 | 2.50 | 3.13 | 3.75 | 4.38 | OXYGEN ML/L | 5.00 | 5.63 | 6.25 | 6.88 | 7.50 | 8.13 | 8.75 | 9.38 | 10.00 |
| 22.00 | 22.50 | 23.00 | 23.50 | 24.00 | 24.50 | 25.00 | 25.50 | SIGMA-T KG/M ³ | 26.00 | 26.50 | 27.00 | 27.50 | 28.00 | 28.50 | 29.00 | 29.50 | 30.00 |
| 32.00 | 32.25 | 32.50 | 32.75 | 33.00 | 33.25 | 33.50 | 33.75 | SALINITY PSU | 34.00 | 34.25 | 34.50 | 34.75 | 35.00 | 35.25 | 35.50 | 35.75 | 36.00 |
| 0.00 | 0.00 | 2.00 | 4.00 | 6.00 | 8.00 | 10.00 | 12.00 | TEMP C | 14.00 | 16.00 | 18.00 | 20.00 | 22.00 | 24.00 | 26.00 | 28.00 | 30.00 |



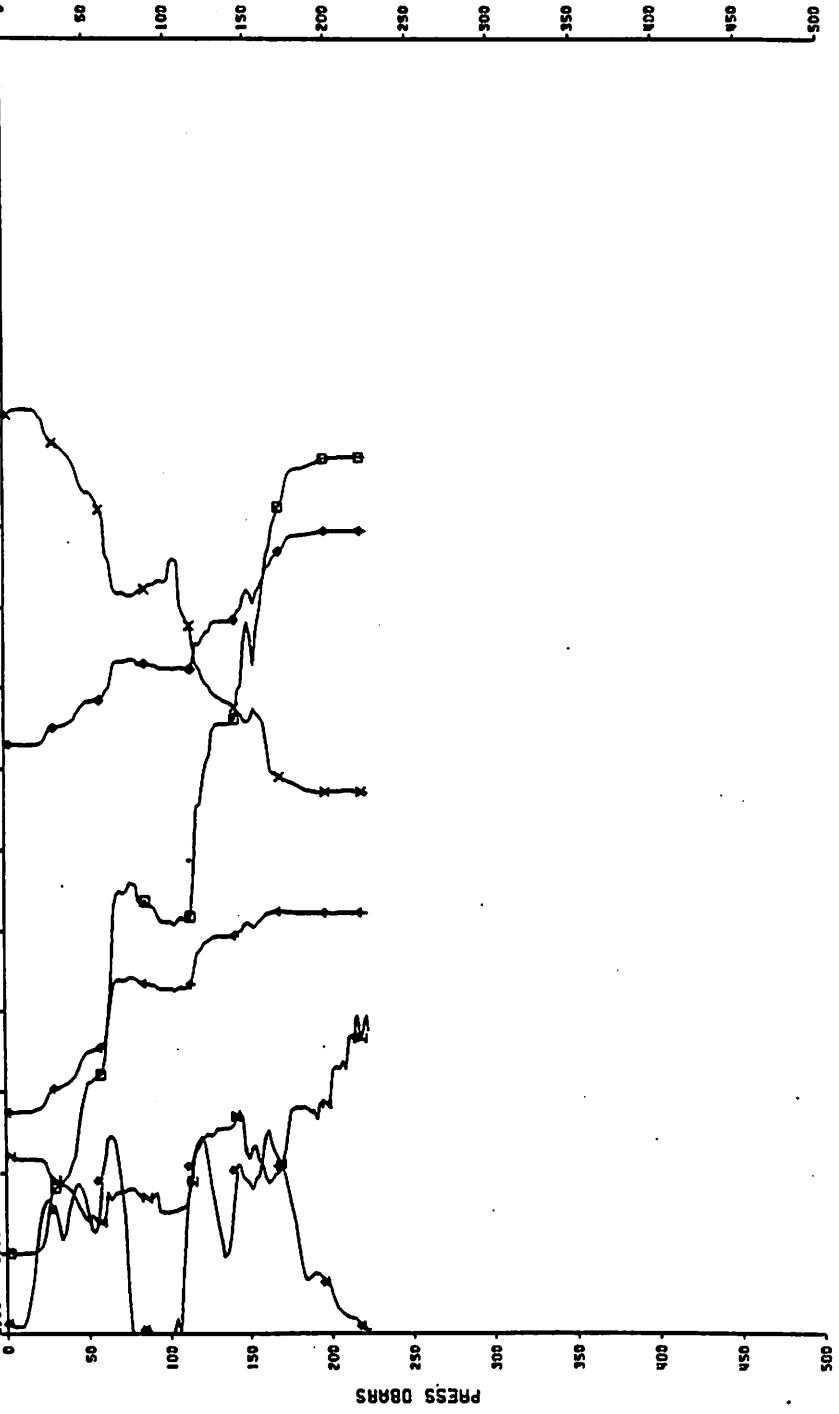


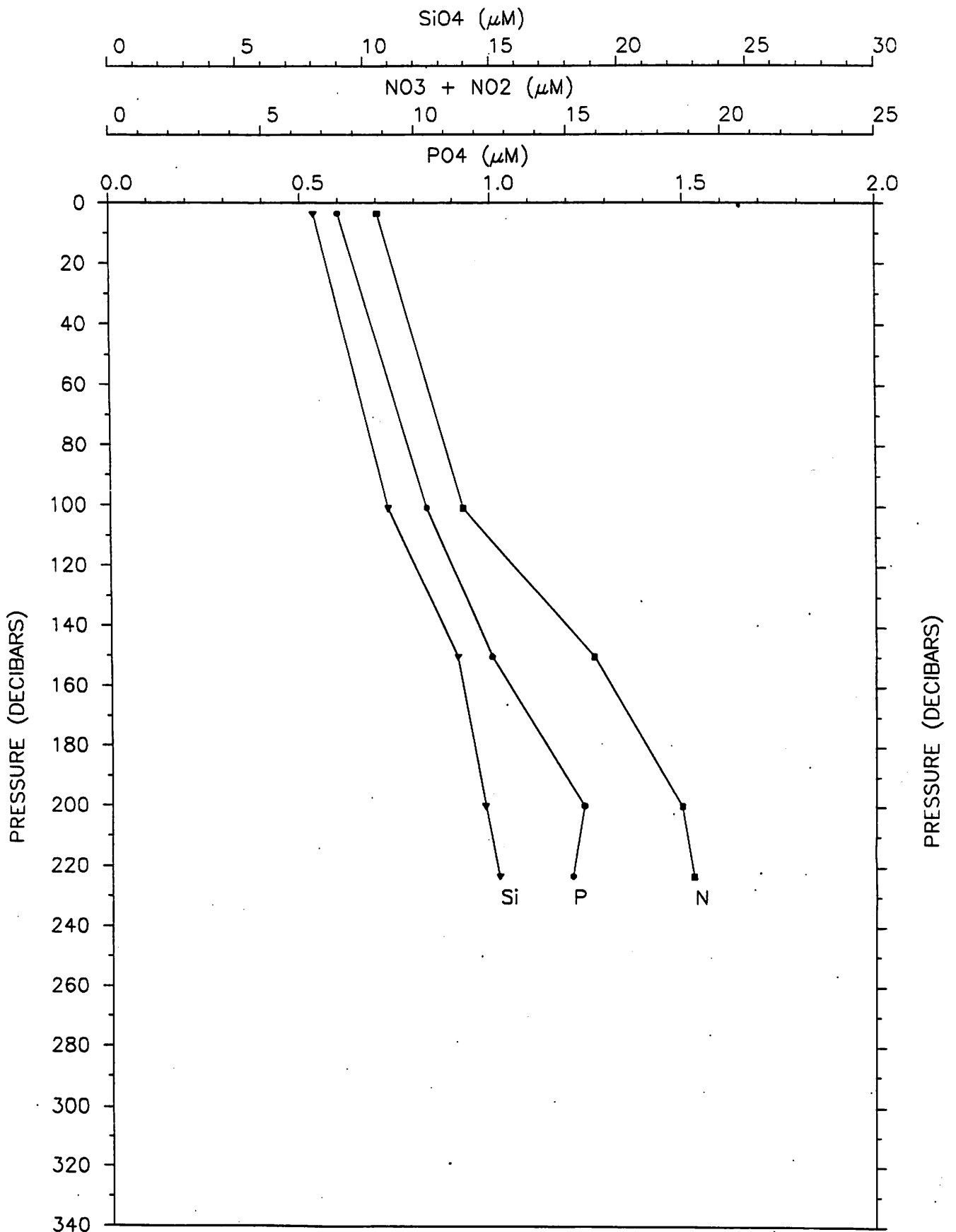
CRUISE: OC181
 13 FEB 87
 04: 22: 30 GMT

STATION: 75
 43 05.93 N
 67 09.92 W

0C181U CAST #76

| | | | | | | | | | | | | | | | | |
|-----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0.00 | 3.19 | 0.25 | 0.38 | 12.50 | 15.03 | 18.75 | 21.07 | 21.00 | 28.12 | 31.25 | 34.38 | 37.50 | 40.63 | 43.75 | 46.88 | 50.00 |
| * N CPH | | | | | | | | | | | | | | | | |
| 0.00 | 0.05 | 0.10 | 0.15 | 0.20 | 0.25 | 0.30 | 0.35 | 0.40 | 0.45 | 0.50 | 0.55 | 0.60 | 0.65 | 0.70 | 0.75 | 0.80 |
| Z RIN COEFF M ⁻¹ | | | | | | | | | | | | | | | | |
| 0.00 | 0.63 | 1.25 | 1.68 | 2.50 | 3.13 | 3.75 | 4.38 | 5.00 | 5.63 | 6.25 | 6.88 | 7.50 | 8.13 | 8.75 | 9.38 | 10.00 |
| X DRYGEM HL/L | | | | | | | | | | | | | | | | |
| 22.00 | 22.50 | 23.00 | 23.50 | 24.00 | 24.50 | 25.00 | 25.50 | 26.00 | 26.50 | 27.00 | 27.50 | 28.00 | 28.50 | 29.00 | 29.50 | 30.00 |
| SICMA-T KG/M ³ | | | | | | | | | | | | | | | | |
| 32.00 | 32.25 | 32.50 | 32.75 | 33.00 | 33.25 | 33.50 | 33.75 | 34.00 | 34.25 | 34.50 | 34.75 | 35.00 | 35.25 | 35.50 | 35.75 | 36.00 |
| D SALINITY PSU | | | | | | | | | | | | | | | | |
| 0.00 | 0.00 | 2.00 | 4.00 | 6.00 | 8.00 | 10.00 | 12.00 | 14.00 | 16.00 | 18.00 | 20.00 | 22.00 | 24.00 | 26.00 | 28.00 | 30.00 |
| TEMP C | | | | | | | | | | | | | | | | |



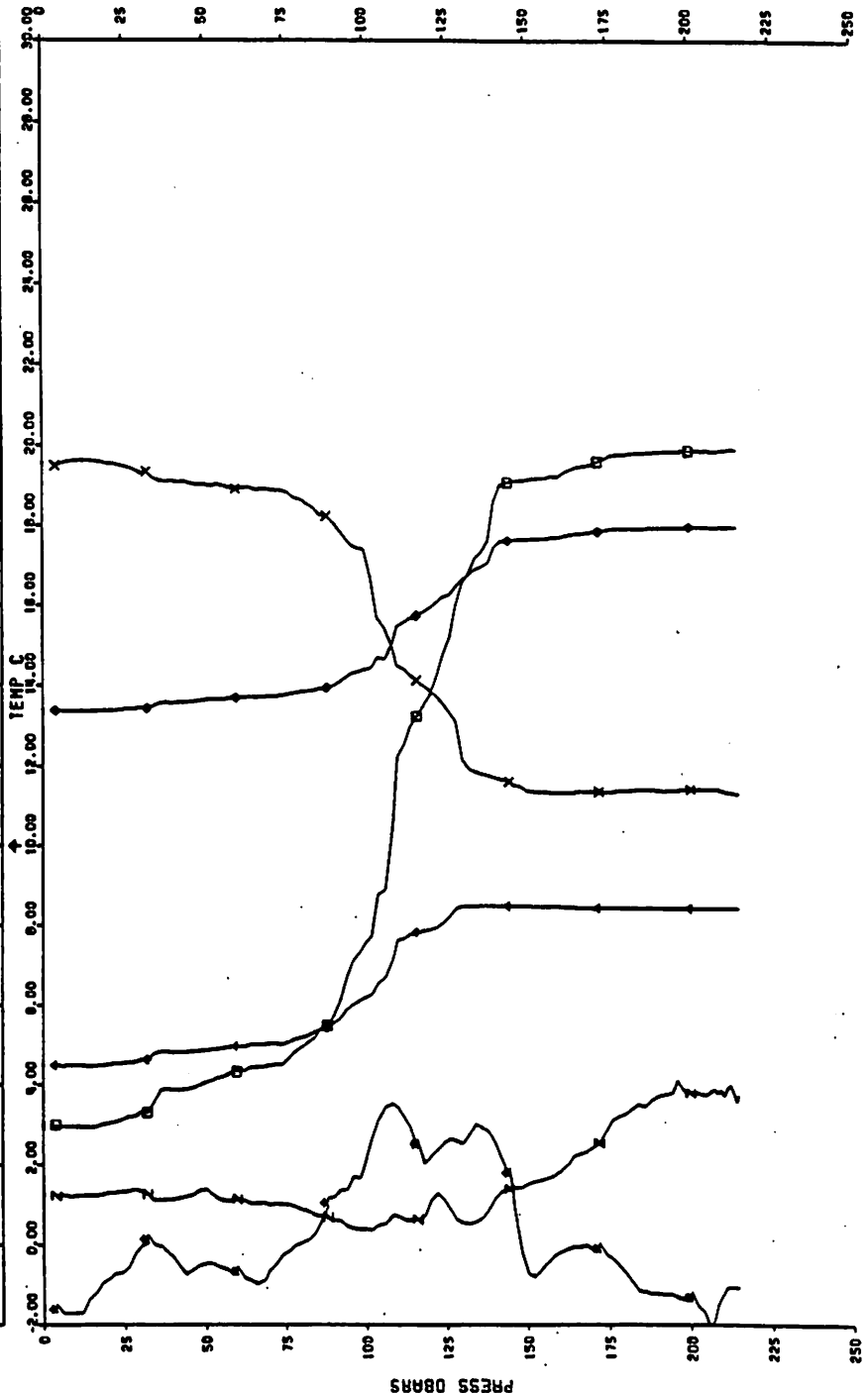


CRUISE: OC181
 13 FEB 87
 05: 37: 30 GMT

STATION: 76
 42 57.28 N
 67 10.66 W

0C181U CAST #77

| | | | | | | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0.00 | 3.13 | 0.25 | 0.30 | 12.50 | 15.03 | 10.75 | 21.07 | N | 25.00 | 29.12 | 31.25 | 34.38 | 37.50 | 40.63 | 43.75 | 46.88 | 50.00 |
| 0.00 | 0.05 | 0.10 | 0.15 | 0.20 | 0.25 | 0.30 | 0.35 | M | 0.40 | 0.50 | 0.55 | 0.60 | 0.65 | 0.70 | 0.75 | 0.80 | 0.80 |
| 0.00 | 0.03 | 1.25 | 1.68 | 2.50 | 3.13 | 5.75 | 4.38 | X | 5.00 | 5.89 | 0.25 | 0.68 | 1.50 | 0.13 | 0.75 | 0.38 | 10.00 |
| 22.00 | 22.50 | 23.00 | 23.50 | 24.00 | 24.50 | 25.00 | 25.50 | 26.00 | 26.50 | 27.00 | 27.50 | 28.00 | 28.50 | 29.00 | 29.50 | 30.00 | 30.00 |
| 32.00 | 32.25 | 32.50 | 32.75 | 33.00 | 33.25 | 33.50 | 33.75 | 34.00 | 34.25 | 34.50 | 34.75 | 35.00 | 35.25 | 35.50 | 35.75 | 36.00 | 36.00 |



SiO₄ (μ M)

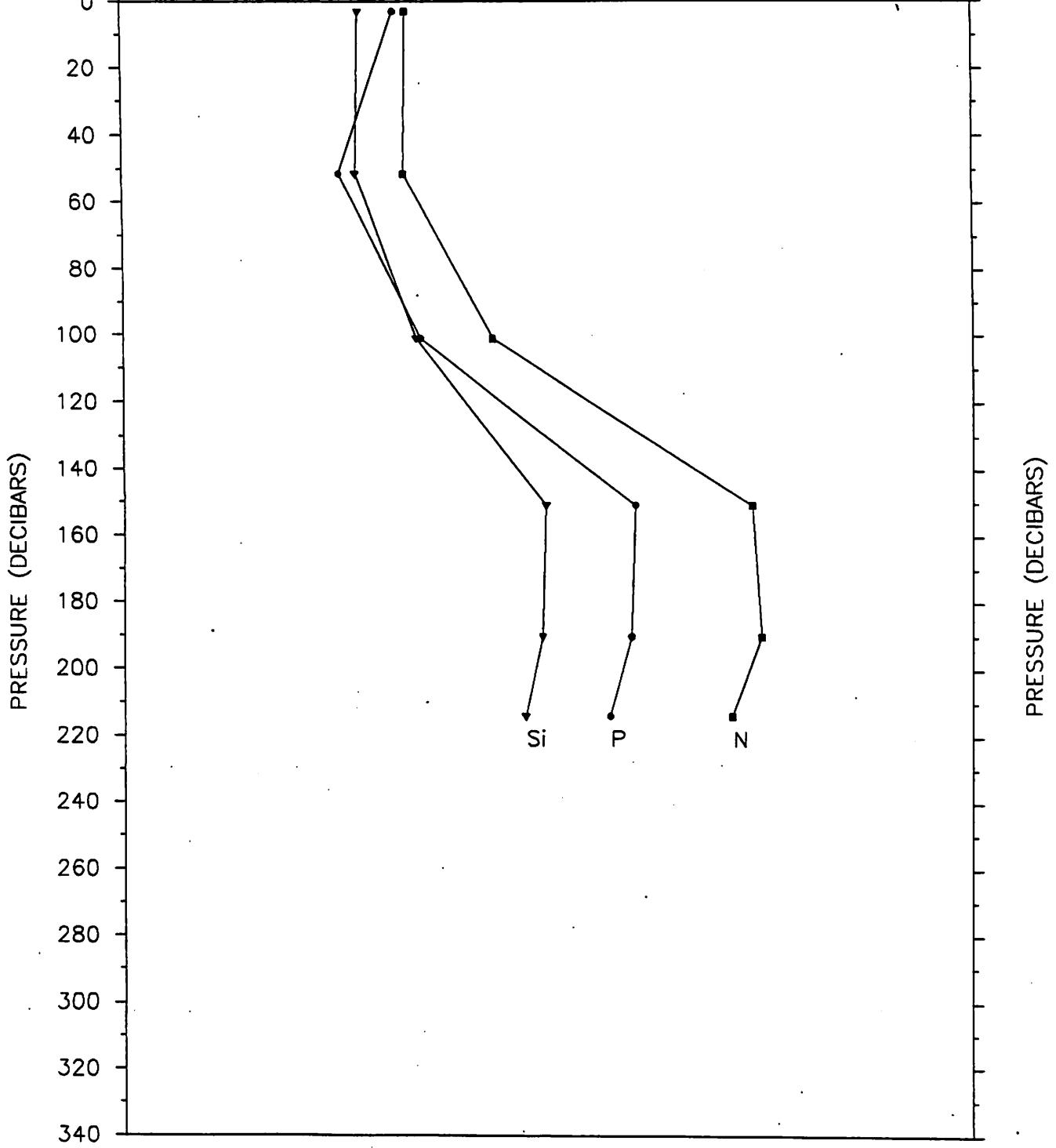
0 5 10 15 20 25 30

NO₃ + NO₂ (μ M)

0 5 10 15 20 25

P_O₄ (μ M)

0.0 0.5 1.0 1.5 2.0

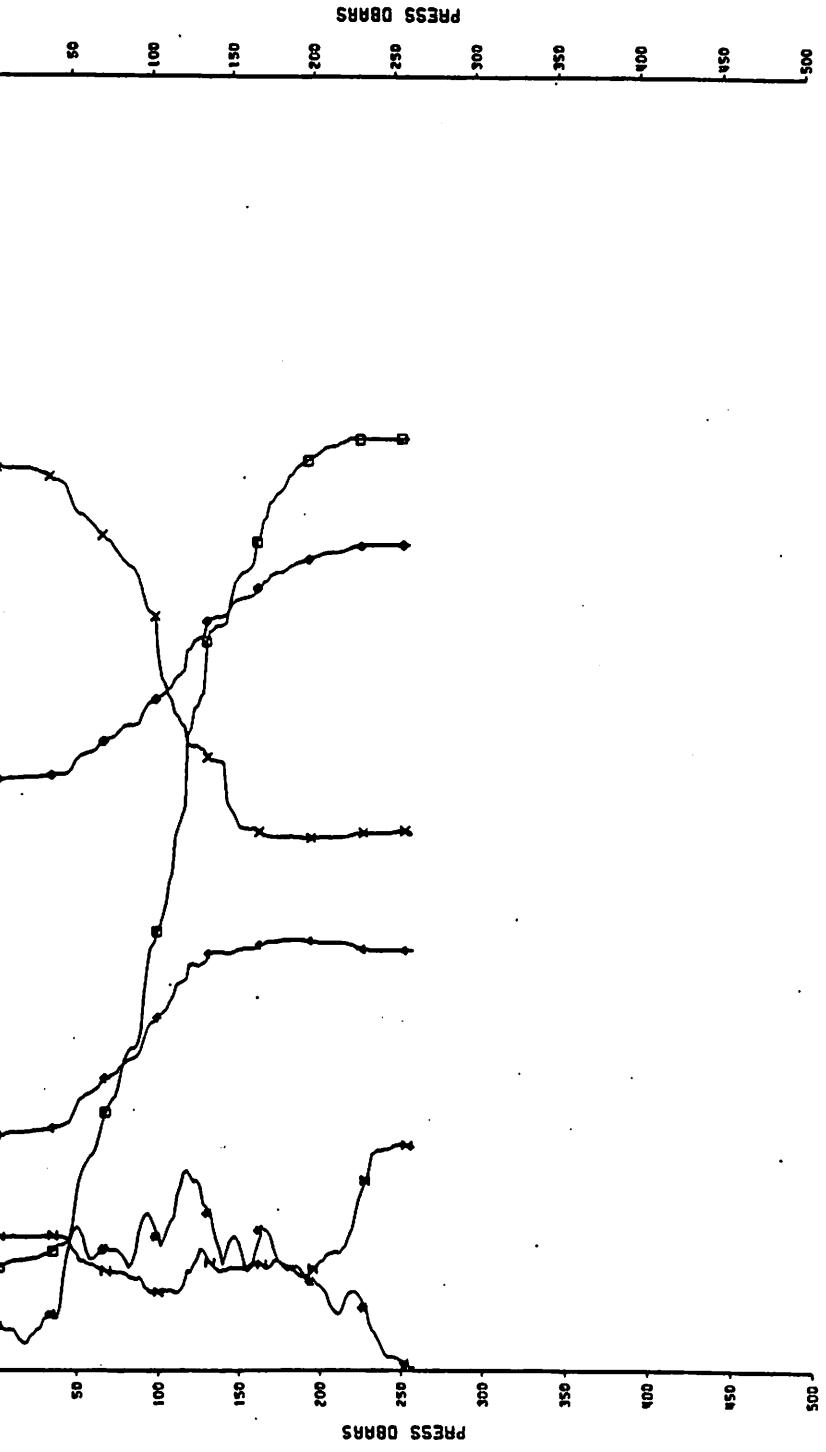


CRUISE: OC181
13 FEB 87
06: 45: 00 GMT

STATION: 77
42 48.81 N
67 11.09 W

0C181U CAST #78

| | | | | | | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|---------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0.00 | 3.13 | 0.25 | 0.38 | 12.50 | 15.83 | 18.75 | 21.87 | M CPH | 22.00 | 28.12 | 31.25 | 34.38 | 37.50 | 40.63 | 43.75 | 46.88 | 50.00 |
| 0.00 | 0.05 | 0.10 | 0.15 | 0.20 | 0.25 | 0.30 | 0.35 | RIN COEFF M ⁻¹ | 0.40 | 0.45 | 0.50 | 0.55 | 0.60 | 0.65 | 0.70 | 0.75 | 0.80 |
| 0.00 | 0.63 | 1.25 | 1.88 | 2.50 | 3.13 | 3.75 | 4.38 | OXYGEN ML/L | 5.00 | 5.63 | 6.25 | 6.88 | 7.50 | 8.13 | 8.75 | 9.38 | 10.00 |
| 22.00 | 22.50 | 23.00 | 23.50 | 24.00 | 24.50 | 25.00 | 25.50 | SIGMA-T | 26.00 | 26.50 | 27.00 | 27.50 | 28.00 | 28.50 | 29.00 | 29.50 | 30.00 |
| 32.00 | 32.25 | 32.50 | 32.75 | 33.00 | 33.25 | 33.50 | 33.75 | SALINITY PSU | 34.00 | 34.25 | 34.50 | 34.75 | 35.00 | 35.25 | 35.50 | 35.75 | 36.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | TEMP C | 18.00 | 18.00 | 18.00 | 20.00 | 22.00 | 24.00 | 26.00 | 28.00 | 30.00 |



SiO4 (μM)

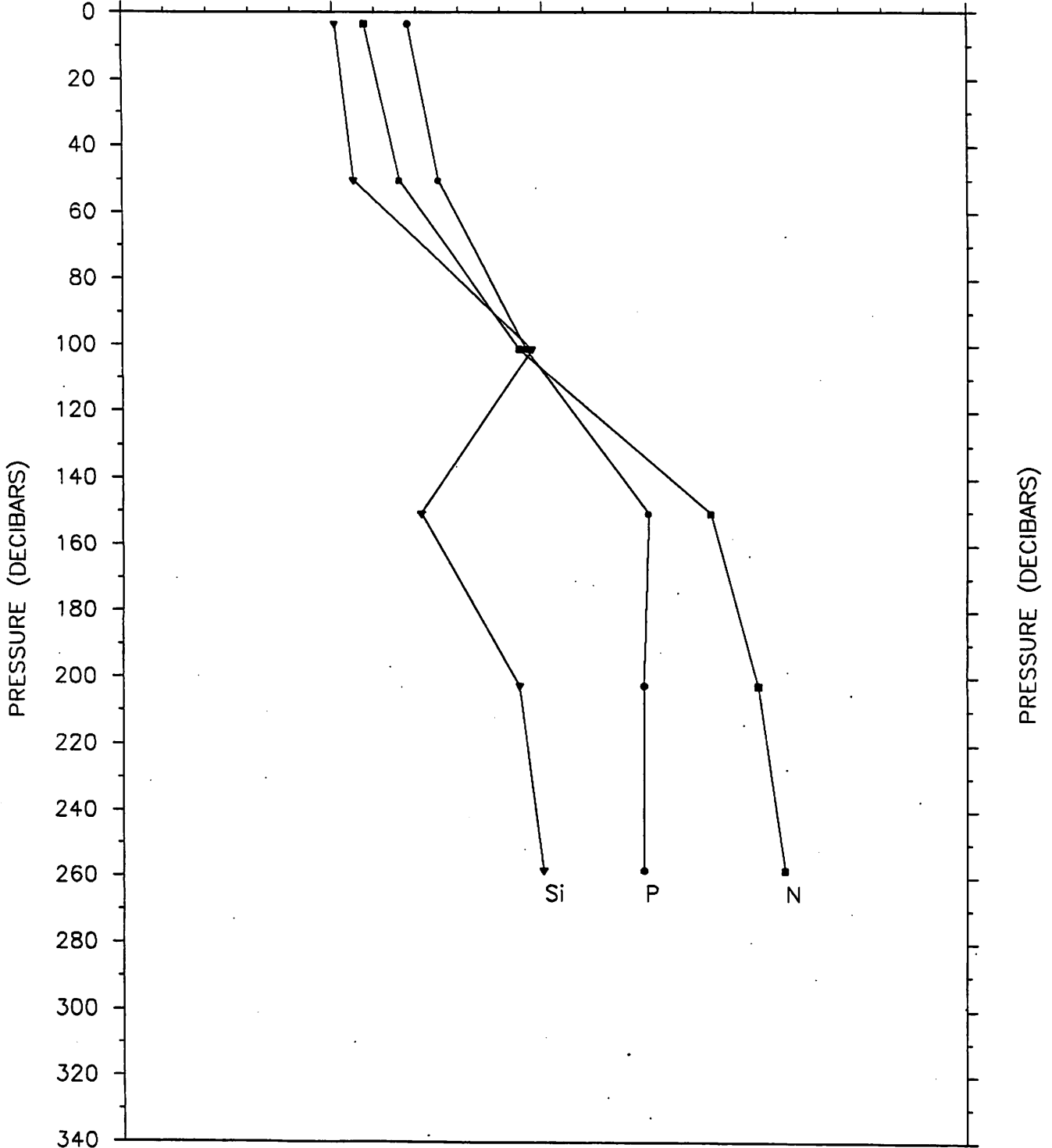
0 5 10 15 20 25 30

NO3 + NO2 (μM)

0 5 10 15 20 25

PO4 (μM)

0.0 0.5 1.0 1.5 2.0

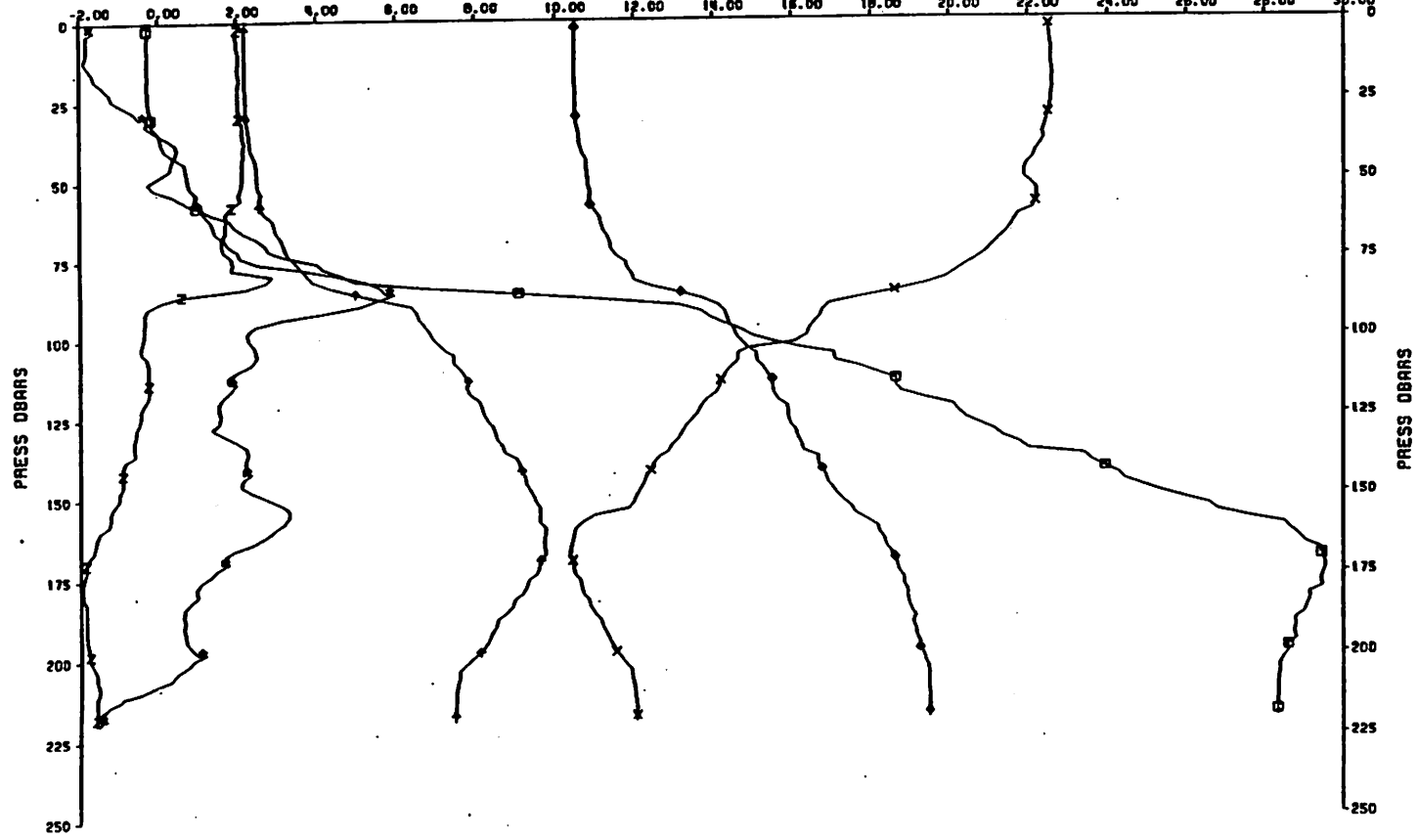


CRUISE: OC181
13 FEB 87
07: 52: 30 GMT

STATION: 78
42 40.04 N
67 12.07 W

0C181U CAST #79

| | | | | | | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0.00 | 3.13 | 6.25 | 9.38 | 12.50 | 15.63 | 18.75 | 21.87 | 25.00 | 28.12 | 31.25 | 34.38 | 37.50 | 40.63 | 43.75 | 46.88 | 50.00 | |
| 0.00 | 0.05 | 0.10 | 0.15 | 0.20 | 0.25 | 0.30 | 0.35 | 0.40 | 0.45 | 0.50 | 0.55 | 0.60 | 0.65 | 0.70 | 0.75 | 0.80 | |
| 0.00 | 0.63 | 1.25 | 1.88 | 2.50 | 3.13 | 3.75 | 4.38 | 5.00 | 5.63 | 6.25 | 6.88 | 7.50 | 8.13 | 8.75 | 9.38 | 10.00 | |
| 22.00 | 22.50 | 23.00 | 23.50 | 24.00 | 24.50 | 25.00 | 25.50 | 26.00 | 26.50 | 27.00 | 27.50 | 28.00 | 28.50 | 29.00 | 29.50 | 30.00 | |
| 31.25 | 31.50 | 31.75 | 32.00 | 32.25 | 32.50 | 32.75 | 33.00 | 33.25 | 33.50 | 33.75 | 34.00 | 34.25 | 34.50 | 34.75 | 35.00 | 35.25 | |
| -2.00 | 0.00 | 2.00 | 4.00 | 6.00 | 8.00 | 10.00 | 12.00 | 14.00 | 16.00 | 18.00 | 19.00 | 20.00 | 22.00 | 24.00 | 26.00 | 28.00 | 30.00 |



290

SiO4 (μM)

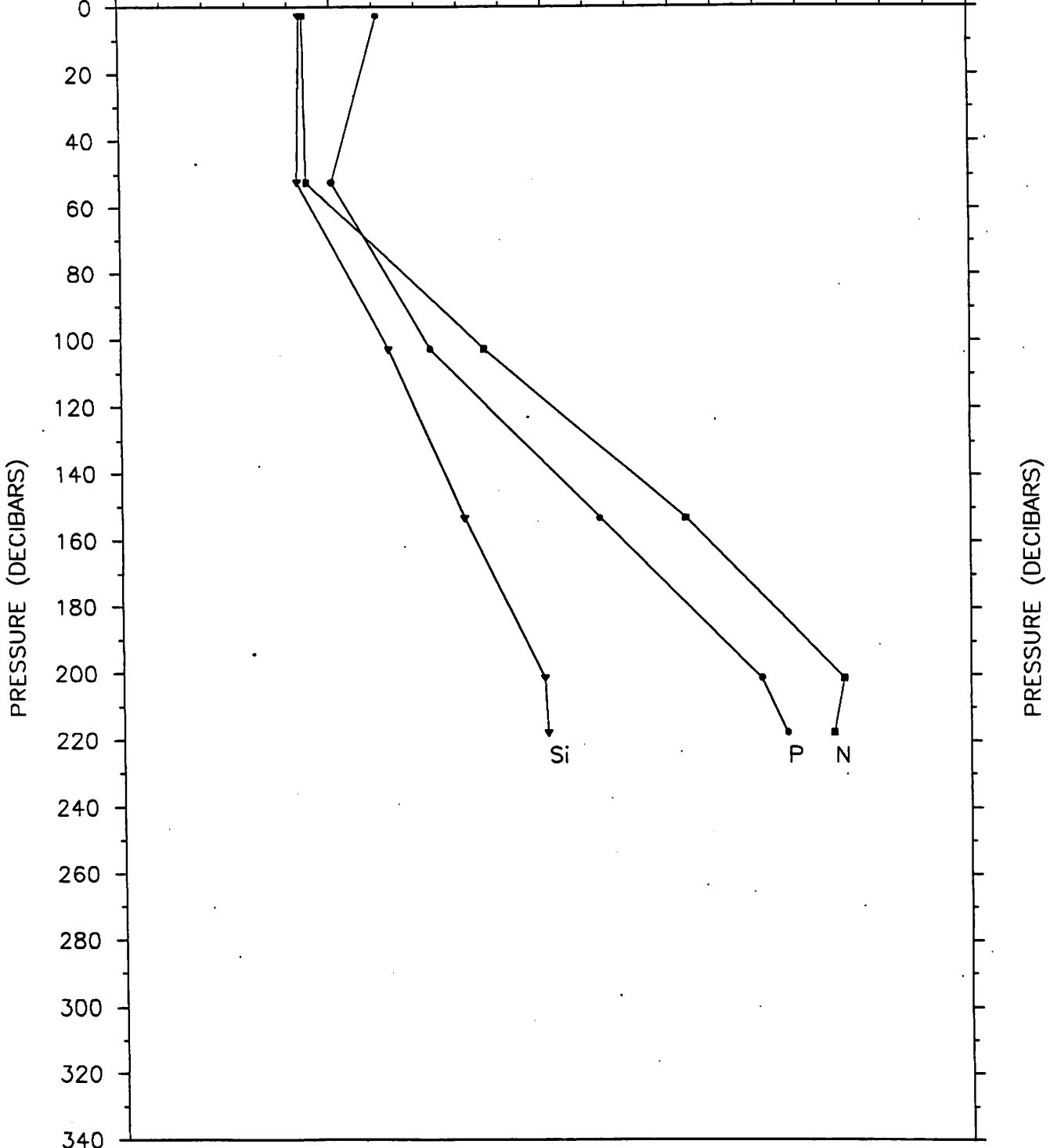
0 5 10 15 20 25 30

NO3 + NO2 (μM)

0 5 10 15 20 25

PO4 (μM)

0.0 0.5 1.0 1.5 2.0

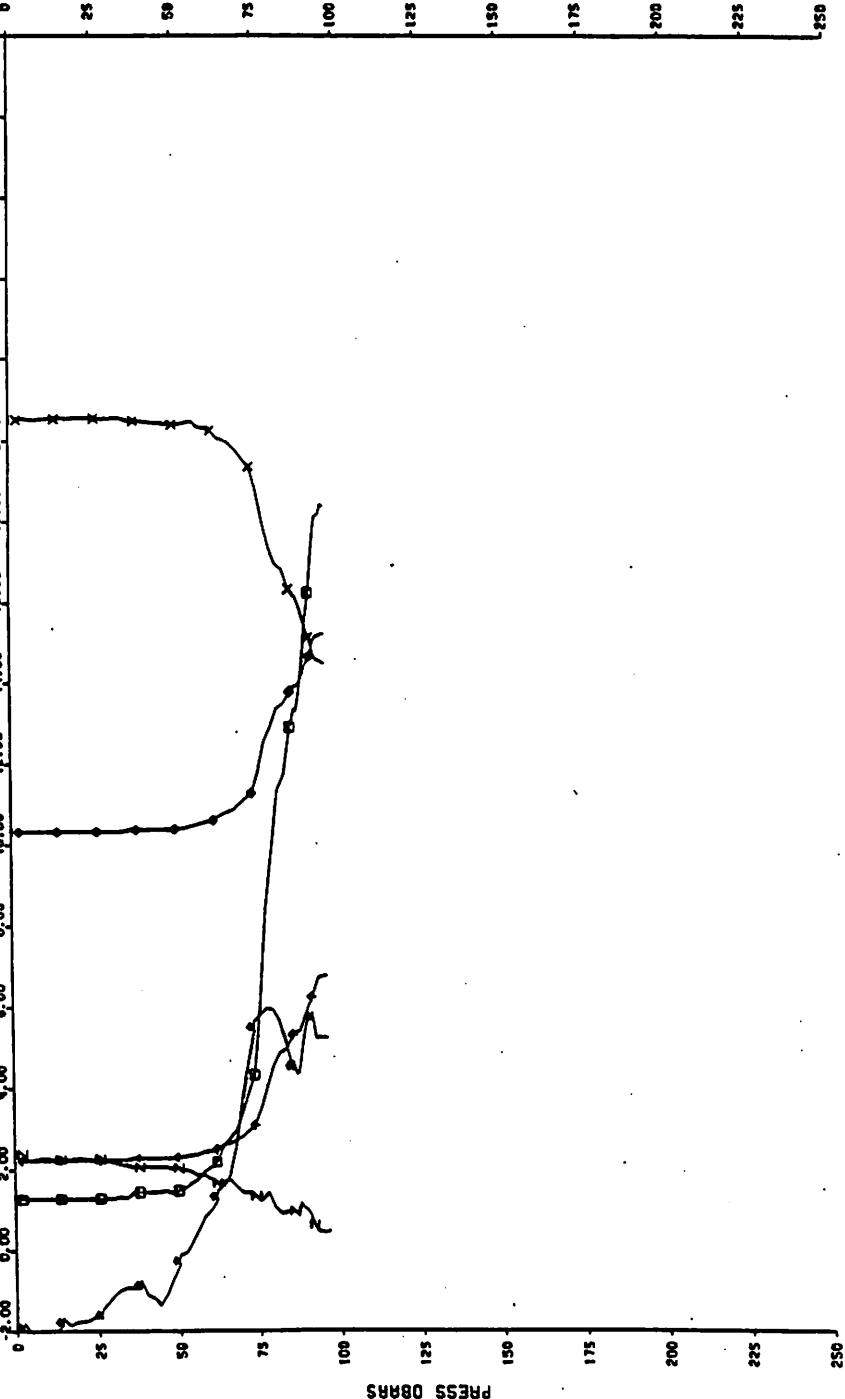


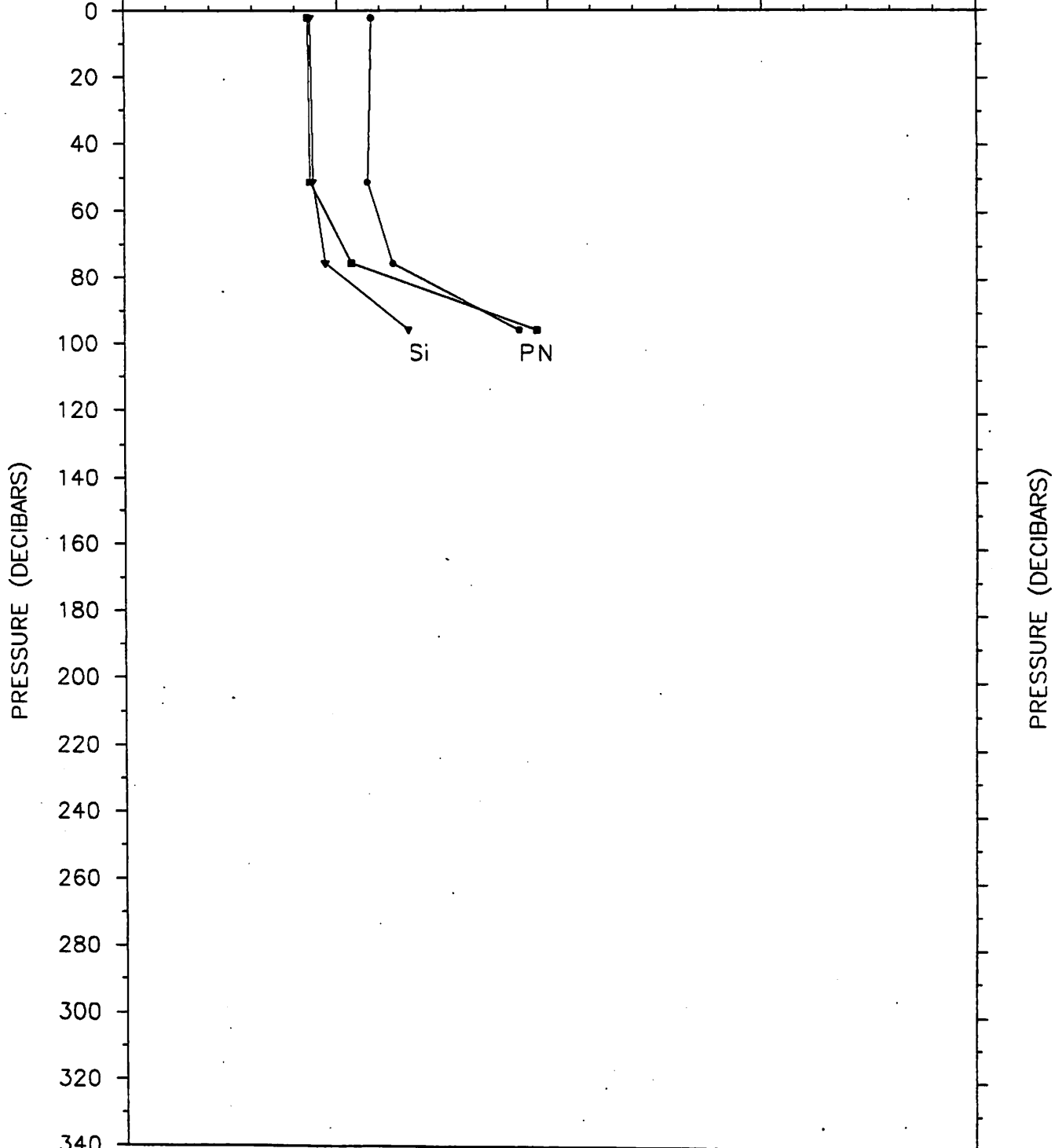
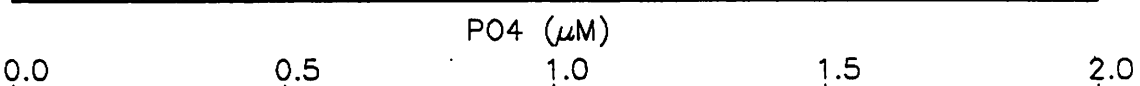
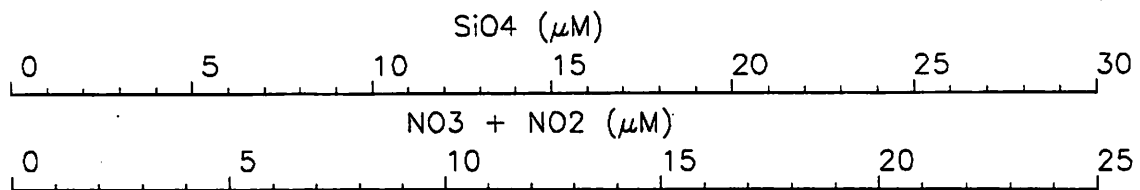
CRUISE: OC181
13 FEB 87
13: 52: 30 GMT

STATION: 79
42 20.65 N
65 54.54 W

0C181U CAST #80

| | | | | | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0.00 | 3.13 | 6.25 | 9.38 | 12.50 | 15.63 | 18.75 | 21.87 | 25.00 | 28.12 | 31.25 | 34.38 | 37.50 | 40.63 | 43.75 | 46.88 | 50.00 |
| 0.00 | 0.05 | 0.10 | 0.15 | 0.20 | 0.25 | 0.30 | 0.35 | 0.40 | 0.45 | 0.50 | 0.55 | 0.60 | 0.65 | 0.70 | 0.75 | 0.80 |
| 0.00 | 0.63 | 1.25 | 1.88 | 2.50 | 3.13 | 3.75 | 4.38 | 5.00 | 5.63 | 6.25 | 6.88 | 7.50 | 8.13 | 8.75 | 9.38 | 10.00 |
| 22.00 | 22.50 | 23.00 | 23.50 | 24.00 | 24.50 | 25.00 | 25.50 | 26.00 | 26.50 | 27.00 | 27.50 | 28.00 | 28.50 | 29.00 | 29.50 | 30.00 |
| 31.00 | 31.25 | 31.50 | 31.75 | 32.00 | 32.25 | 32.50 | 32.75 | 33.00 | 33.25 | 33.50 | 33.75 | 34.00 | 34.25 | 34.50 | 34.75 | 35.00 |



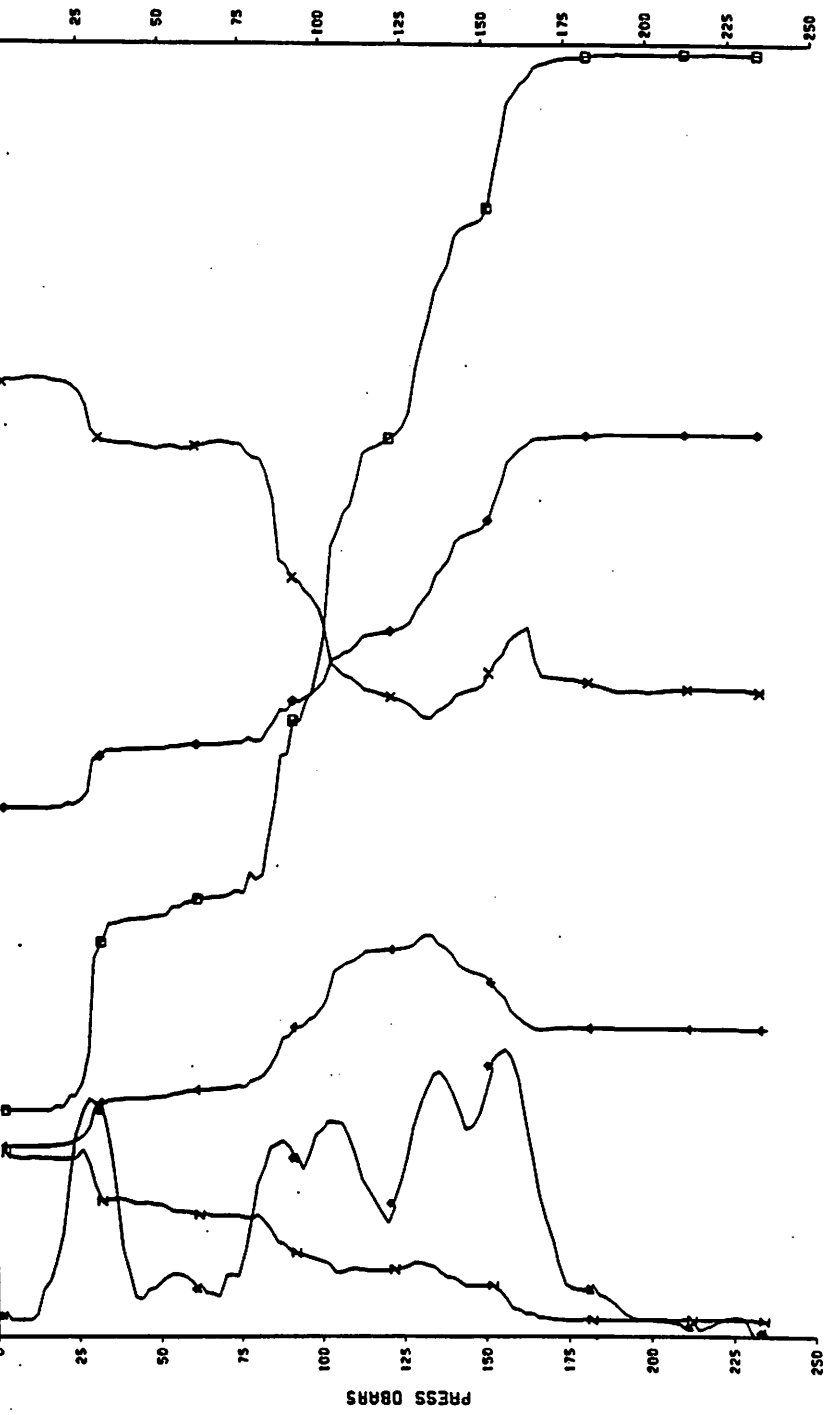


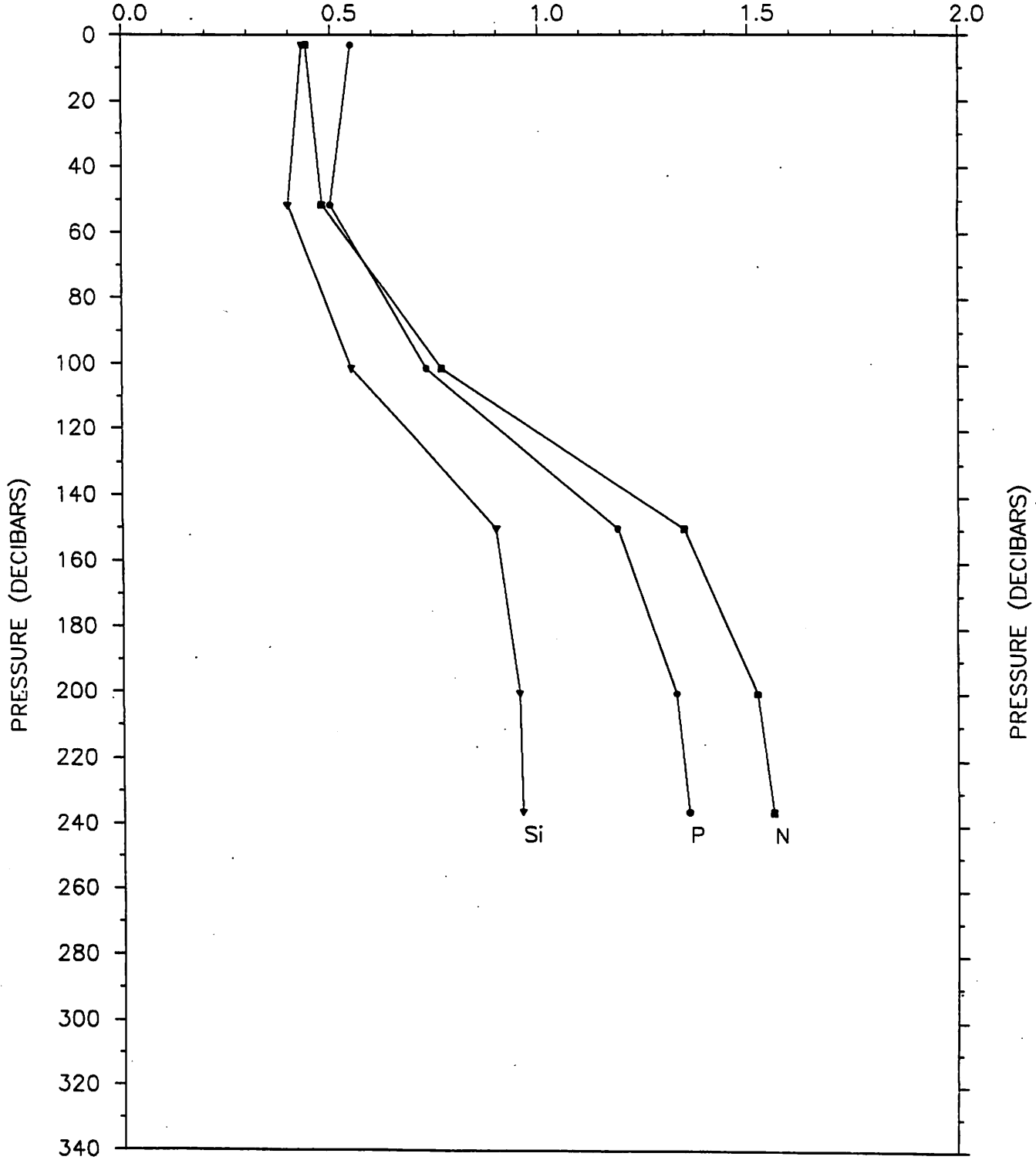
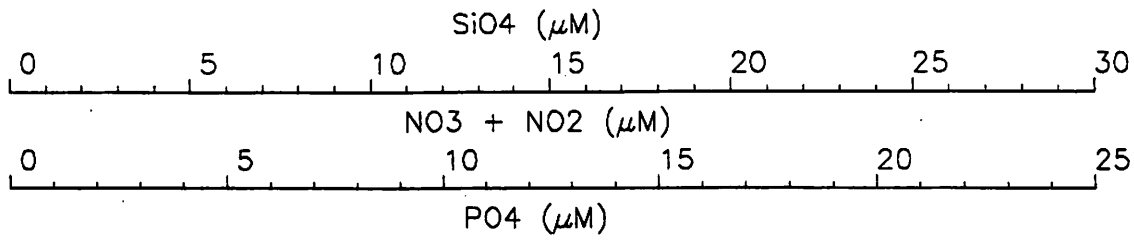
CRUISE: OC181
 13 FEB 87
 17: 22: 30 GMT

STATION: 80
 42 28.00 N
 65 47.62 W

0C181U CAST #81

| | | | | | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0.00 | 3.13 | 9.25 | 9.39 | 12.50 | 15.63 | 19.75 | 21.87 | 25.00 | 28.12 | 31.25 | 34.38 | 37.50 | 40.63 | 43.75 | 46.88 | 50.00 |
| 0.00 | 0.05 | 0.10 | 0.15 | 0.20 | 0.25 | 0.30 | 0.35 | 0.40 | 0.45 | 0.50 | 0.55 | 0.60 | 0.65 | 0.70 | 0.75 | 0.80 |
| 0.00 | 0.05 | 1.25 | 1.00 | 2.50 | 3.13 | 3.75 | 4.38 | 5.00 | 5.63 | 6.25 | 6.88 | 7.50 | 8.13 | 8.75 | 9.38 | 10.00 |
| 22.00 | 22.50 | 23.00 | 23.50 | 24.00 | 24.50 | 25.00 | 25.50 | 26.00 | 26.50 | 27.00 | 27.50 | 28.00 | 28.50 | 29.00 | 29.50 | 30.00 |
| 31.00 | 31.25 | 31.50 | 31.75 | 32.00 | 32.25 | 32.50 | 32.75 | 33.00 | 33.25 | 33.50 | 33.75 | 34.00 | 34.25 | 34.50 | 34.75 | 35.00 |



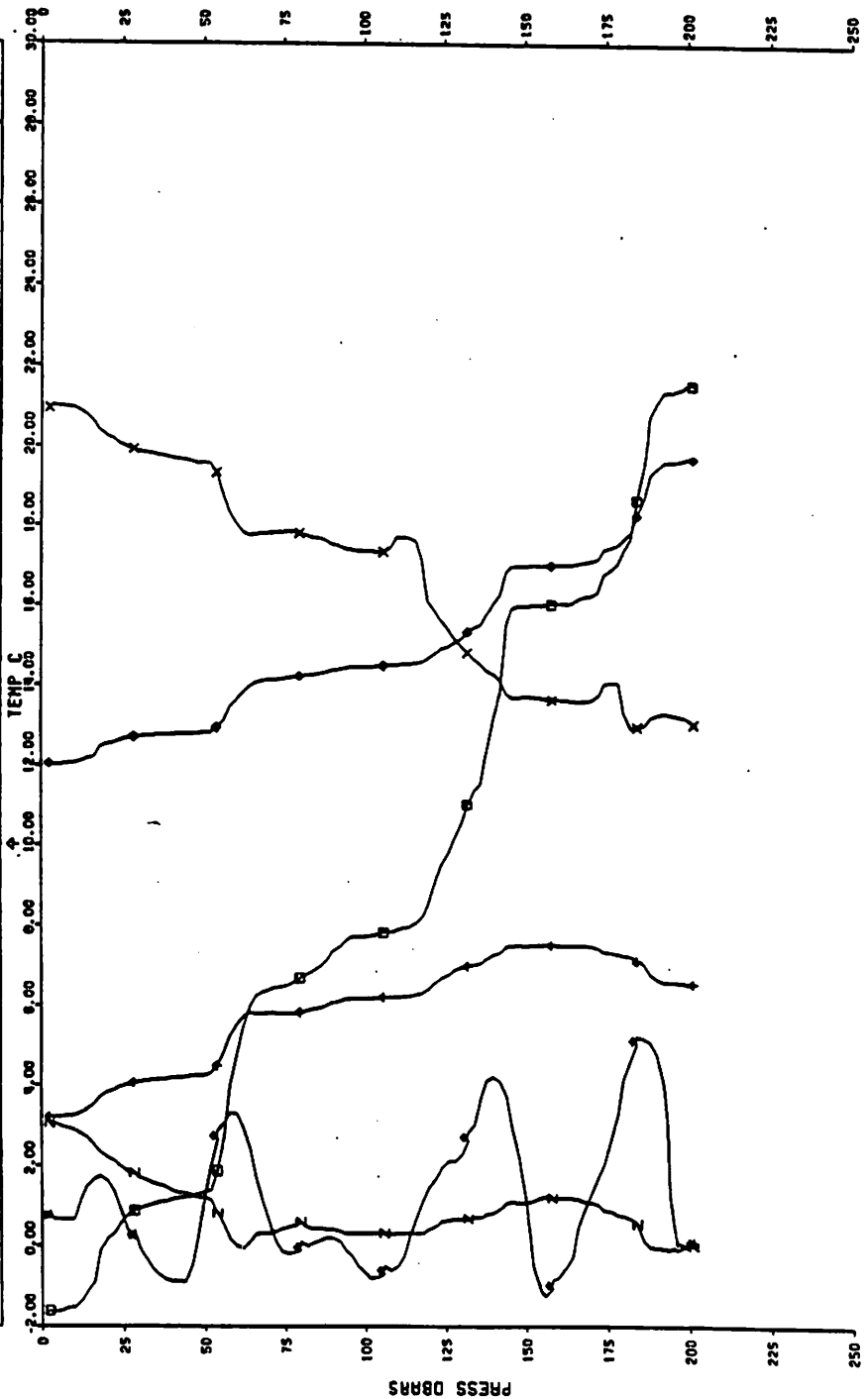


CRUISE: OC181
 13 FEB 87
 19: 22: 30 GMT

STATION: 81
 42 13.99 N
 66 00.00 W

0C181U CAST #82

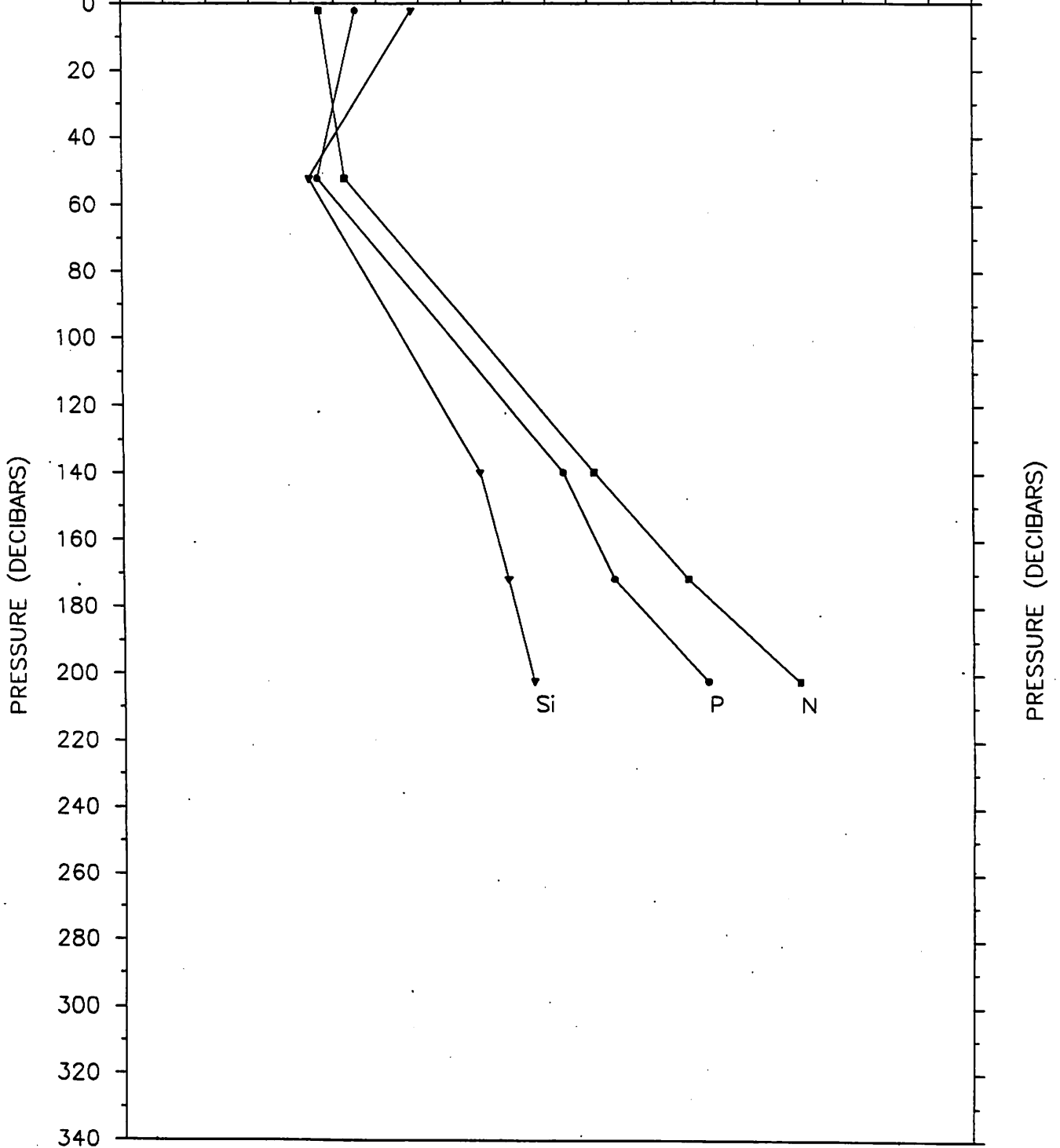
| | | | | | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|--------------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0.00 | 3.13 | 0.25 | 0.38 | 17.50 | 15.83 | 18.75 | 21.87 | 27.50 | 28.12 | 31.25 | 34.38 | 37.50 | 40.63 | 43.75 | 46.88 | 50.00 |
| | | | | | | | | M CPH | | | | | | | | |
| 0.00 | 0.05 | 0.10 | 0.15 | 0.20 | 0.25 | 0.30 | 0.35 | 0.40 | 0.45 | 0.50 | 0.55 | 0.60 | 0.65 | 0.70 | 0.75 | 0.80 |
| | | | | | | | | RIN COEFF | | | | | | | | |
| 0.00 | 0.65 | 1.25 | 1.88 | 2.50 | 3.13 | 3.75 | 4.38 | 5.00 | 5.63 | 6.25 | 6.88 | 7.50 | 8.13 | 8.75 | 9.38 | 10.00 |
| | | | | | | | | OXYGEN ML/L | | | | | | | | |
| 22.00 | 22.50 | 23.00 | 23.50 | 24.00 | 24.50 | 25.00 | 25.50 | 26.00 | 26.50 | 27.00 | 27.50 | 28.00 | 28.50 | 29.00 | 29.50 | 30.00 |
| | | | | | | | | SIGMA-T | | | | | | | | |
| 32.00 | 32.25 | 32.50 | 32.75 | 33.00 | 33.25 | 33.50 | 33.75 | 34.00 | 34.25 | 34.50 | 34.75 | 35.00 | 35.25 | 35.50 | 35.75 | 36.00 |
| | | | | | | | | SALINITY PSU | | | | | | | | |



SiO4 (μM)
0 5 10 15 20 25 30

NO3 + NO2 (μM)
0 5 10 15 20 25

PO4 (μM)
0.0 0.5 1.0 1.5 2.0

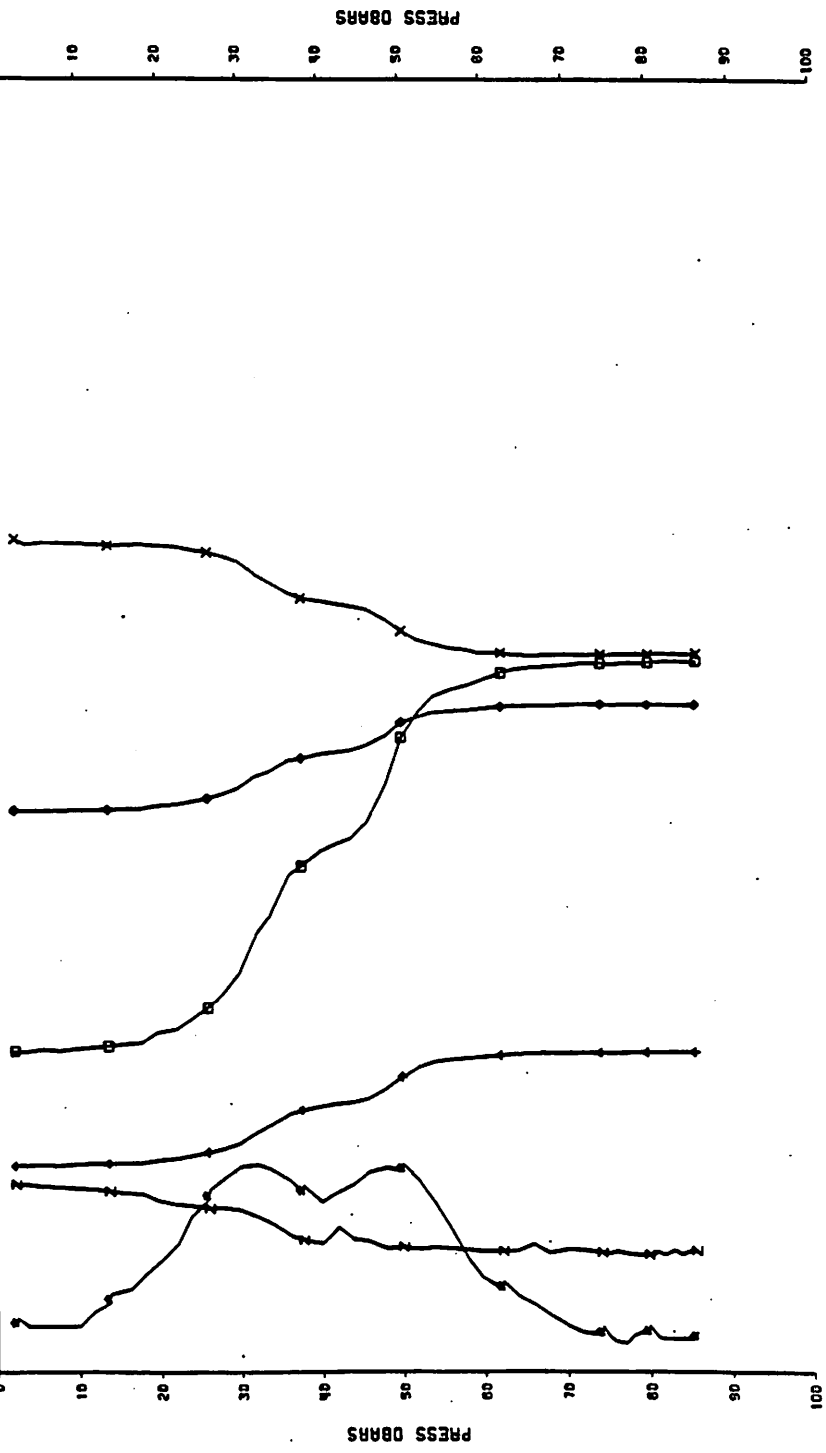


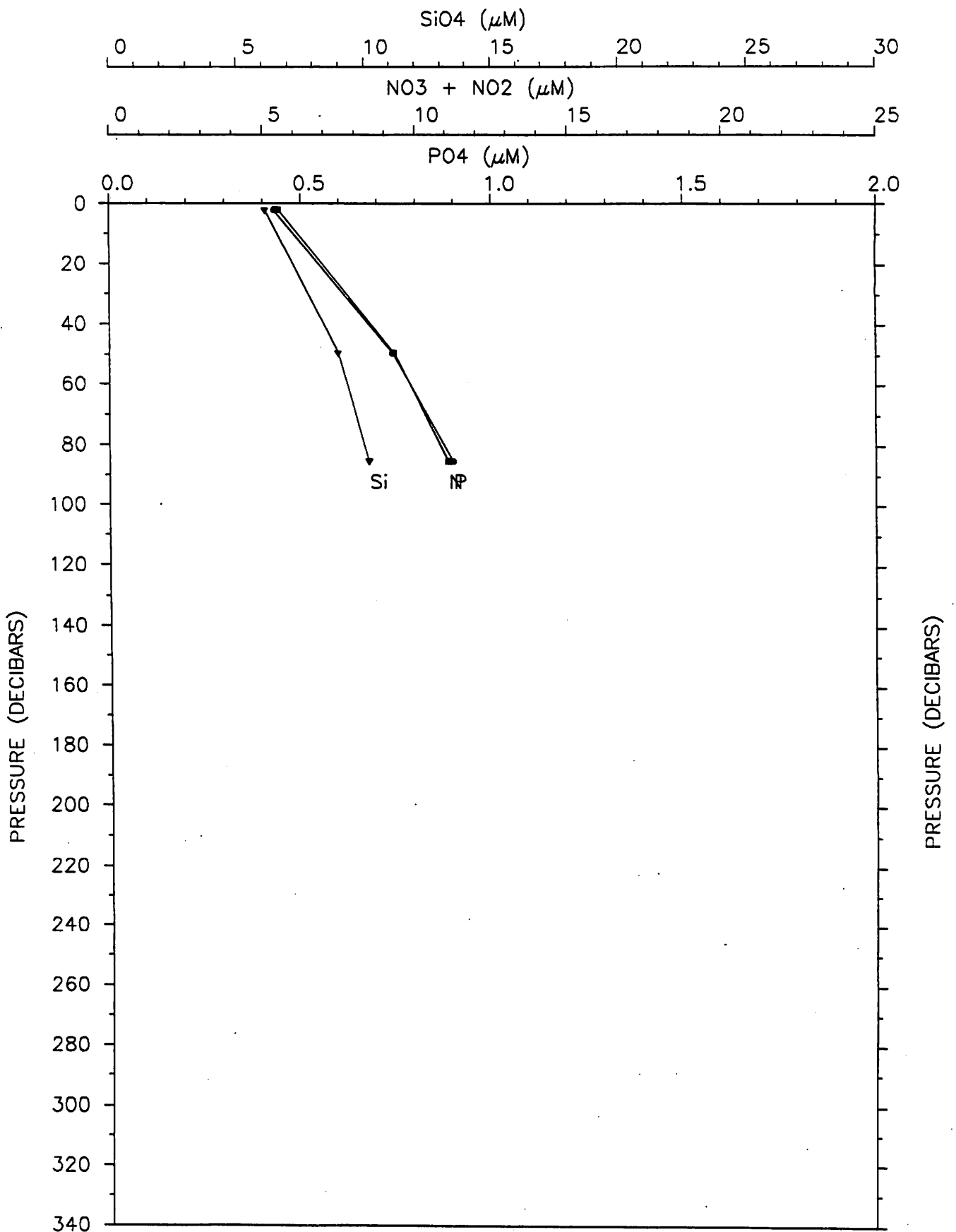
CRUISE: OC181
13 FEB 87
20: 45: 00 GMT

STATION: 82
42 08.11 N
66 05.20 W

0C181A CAST #83

| | | | | | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0.00 | 9.13 | 8.25 | 9.38 | 12.50 | 15.83 | 18.75 | 21.87 | 25.00 | 28.12 | 31.25 | 34.38 | 37.50 | 40.63 | 43.75 | 46.88 | 50.00 |
| 0.00 | 0.05 | 0.10 | 0.15 | 0.20 | 0.25 | 0.30 | 0.35 | 0.40 | 0.45 | 0.50 | 0.55 | 0.60 | 0.65 | 0.70 | 0.75 | 0.80 |
| 0.00 | 0.69 | 1.25 | 1.68 | 2.50 | 3.13 | 3.75 | 4.38 | 5.00 | 5.63 | 6.25 | 6.88 | 7.50 | 8.13 | 8.75 | 9.38 | 10.00 |
| 22.00 | 22.50 | 23.00 | 23.50 | 24.00 | 24.50 | 25.00 | 25.50 | 26.00 | 26.50 | 27.00 | 27.50 | 28.00 | 28.50 | 29.00 | 29.50 | 30.00 |
| 31.00 | 31.25 | 31.50 | 31.75 | 32.00 | 32.25 | 32.50 | 32.75 | 33.00 | 33.25 | 33.50 | 33.75 | 34.00 | 34.25 | 34.50 | 34.75 | 35.00 |
| 0 | 0.00 | 2.00 | 4.00 | 6.00 | 8.00 | 10.00 | 12.00 | 14.00 | 16.00 | 18.00 | 20.00 | 22.00 | 24.00 | 26.00 | 28.00 | 30.00 |



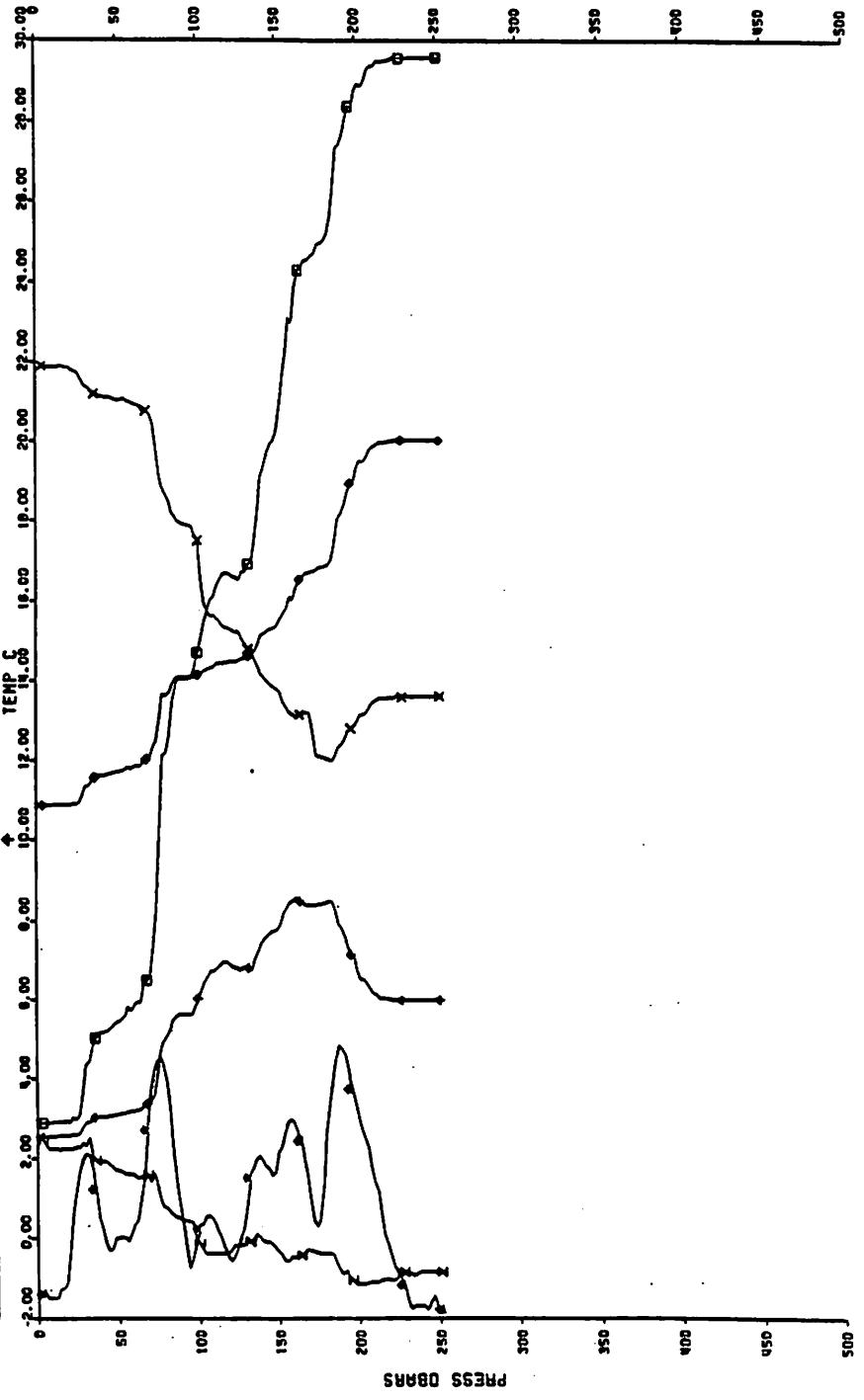


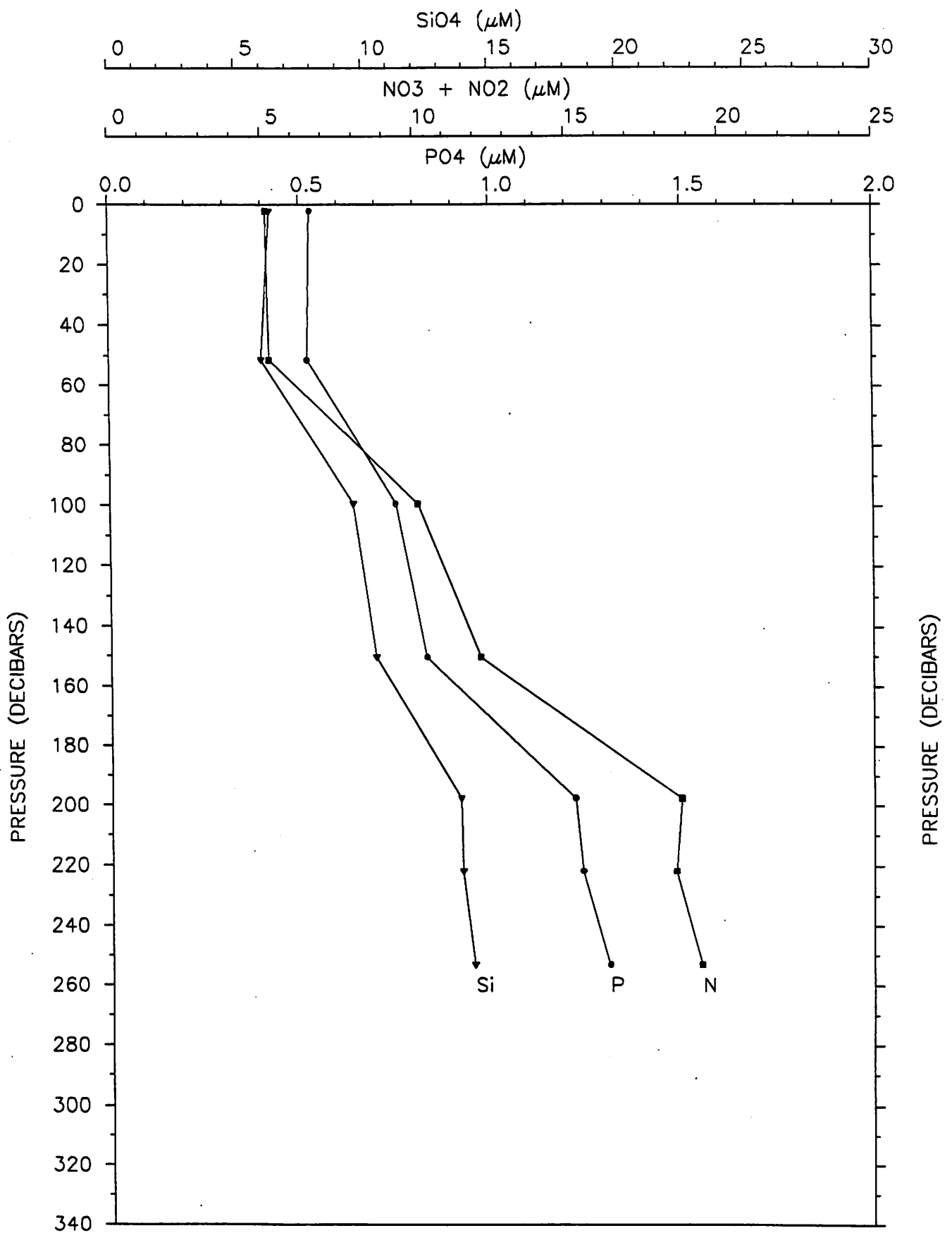
CRUISE: OC181
 13 FEB 87
 22: 00: 00 GMT

STATION: 83
 42 01.95 N
 66 11.15 W

0C181U CAST #84

| | | | | | | | | | | | | | | | | |
|----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0.00 | 3.13 | 6.25 | 9.38 | 12.50 | 15.63 | 18.75 | 21.87 | 25.00 | 28.12 | 31.25 | 34.38 | 37.50 | 40.63 | 43.75 | 46.88 | 50.00 |
| M CPH | | | | | | | | | | | | | | | | |
| 0.00 | 0.05 | 0.10 | 0.15 | 0.20 | 0.25 | 0.30 | 0.35 | 0.40 | 0.45 | 0.50 | 0.55 | 0.60 | 0.65 | 0.70 | 0.75 | 0.80 |
| RAIN COEFF M ⁻¹ | | | | | | | | | | | | | | | | |
| 0.00 | 0.63 | 1.25 | 1.88 | 2.50 | 3.13 | 3.75 | 4.38 | 5.00 | 5.63 | 6.25 | 6.88 | 7.50 | 8.13 | 8.75 | 9.38 | 10.00 |
| OXYGEN ML/L | | | | | | | | | | | | | | | | |
| 22.00 | 22.50 | 23.00 | 23.50 | 24.00 | 24.50 | 25.00 | 25.50 | 26.00 | 26.50 | 27.00 | 27.50 | 28.00 | 28.50 | 29.00 | 29.50 | 30.00 |
| SICHA-T NG/M ³ | | | | | | | | | | | | | | | | |
| 31.00 | 31.25 | 31.50 | 31.75 | 32.00 | 32.25 | 32.50 | 32.75 | 33.00 | 33.25 | 33.50 | 33.75 | 34.00 | 34.25 | 34.50 | 34.75 | 35.00 |
| SALINITY PSU | | | | | | | | | | | | | | | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TEMP C | | | | | | | | | | | | | | | | |



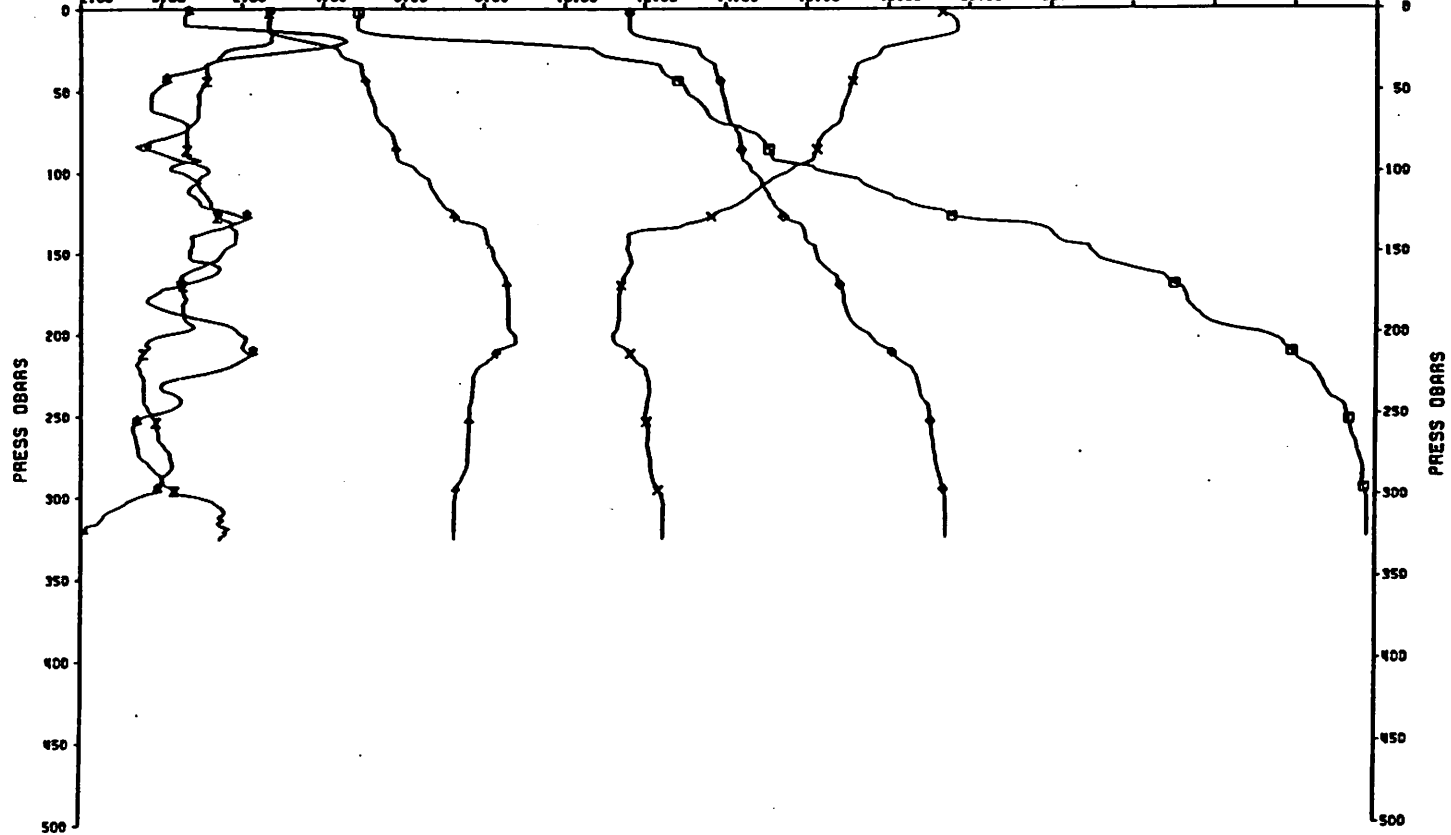


CRUISE: OC181
 14 FEB 87
 01: 52: 30 GMT

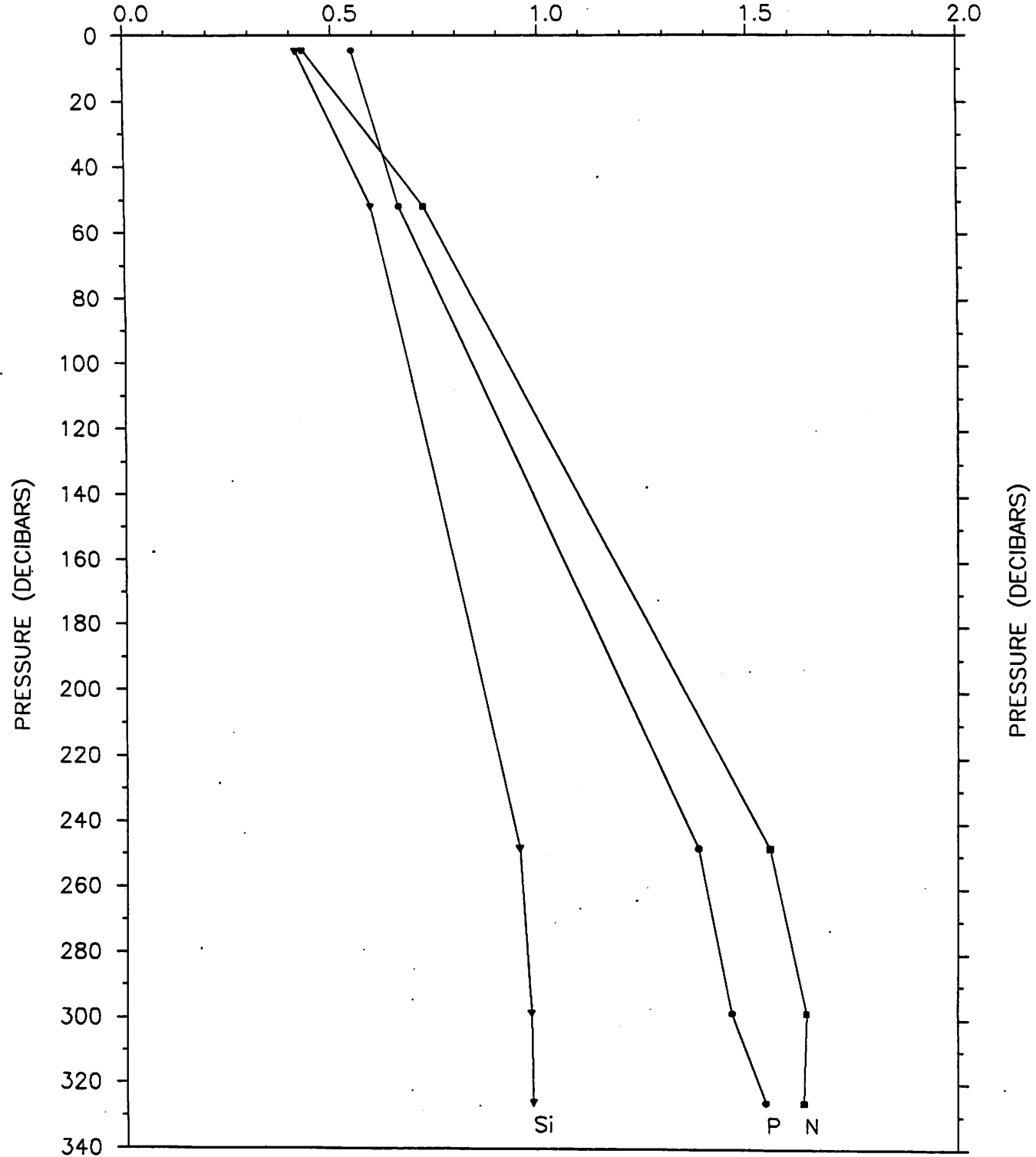
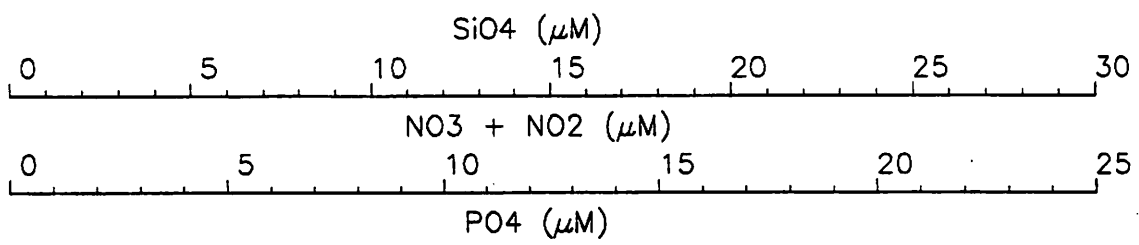
STATION: 84
 42 24.49 N
 66 20.17 W

0C181A CAST #85

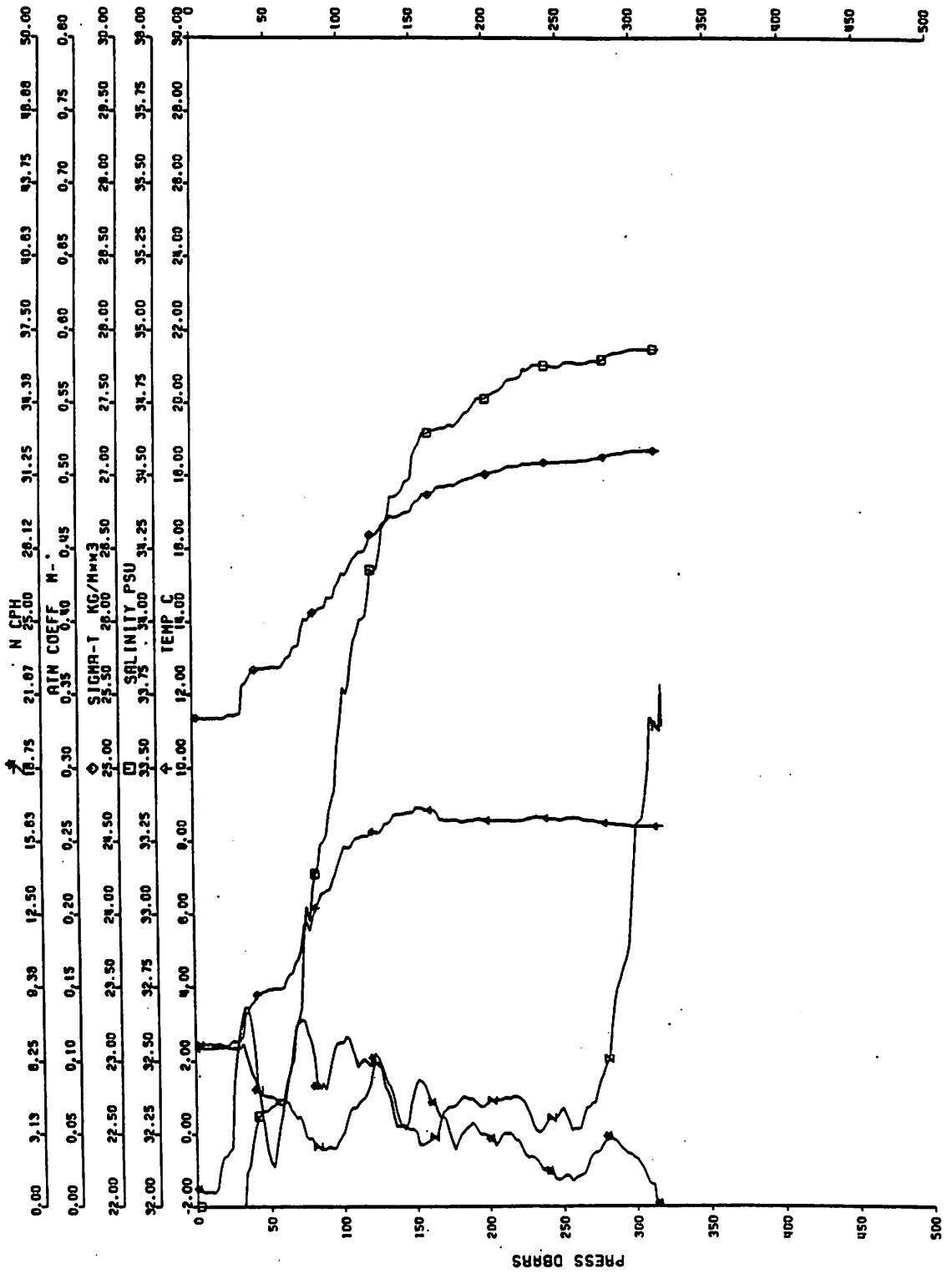
| | | | | | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0.00 | 3.13 | 6.25 | 9.38 | 12.50 | 15.63 | 18.75 | 21.87 | 25.00 | 28.12 | 31.25 | 34.38 | 37.50 | 40.63 | 43.75 | 46.88 | 50.00 |
| 0.00 | 0.05 | 0.10 | 0.15 | 0.20 | 0.25 | 0.30 | 0.35 | 0.40 | 0.45 | 0.50 | 0.55 | 0.60 | 0.65 | 0.70 | 0.75 | 0.80 |
| 0.00 | 0.63 | 1.25 | 1.88 | 2.50 | 3.13 | 3.75 | 4.38 | 5.00 | 5.63 | 6.25 | 6.88 | 7.50 | 8.13 | 8.75 | 9.38 | 10.00 |
| 22.00 | 22.50 | 23.00 | 23.50 | 24.00 | 24.50 | 25.00 | 25.50 | 26.00 | 26.50 | 27.00 | 27.50 | 28.00 | 28.50 | 29.00 | 29.50 | 30.00 |
| 31.00 | 31.25 | 31.50 | 31.75 | 32.00 | 32.25 | 32.50 | 32.75 | 33.00 | 33.25 | 33.50 | 33.75 | 34.00 | 34.25 | 34.50 | 34.75 | 35.00 |
| -2.00 | 0.00 | 2.00 | 4.00 | 6.00 | 8.00 | 10.00 | 12.00 | 14.00 | 16.00 | 18.00 | 20.00 | 22.00 | 24.00 | 26.00 | 28.00 | 30.00 |



302



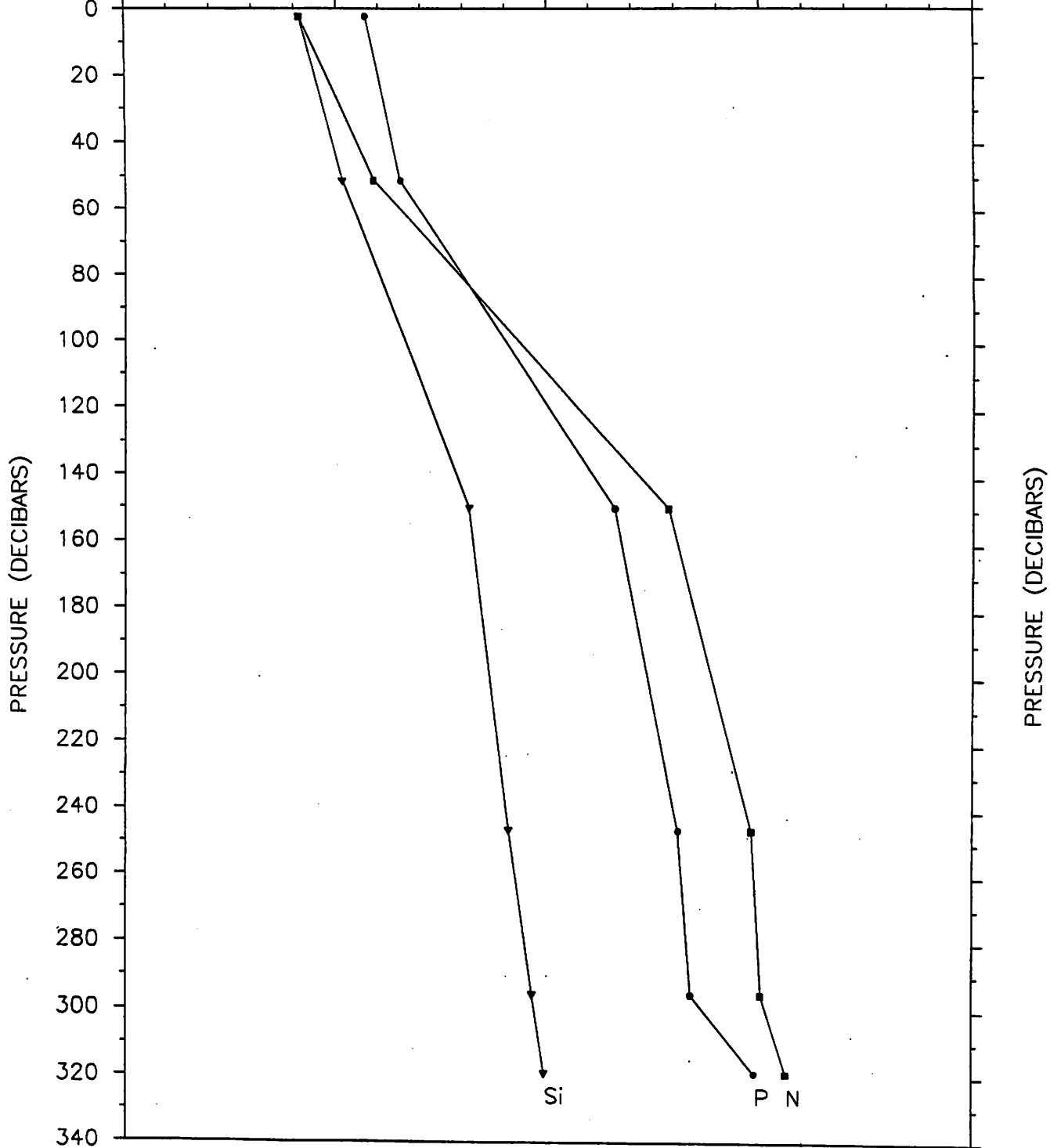
0C181B CAST #86



SiO4 (μM)
0 5 10 15 20 25 30

NO3 + NO2 (μM)
0 5 10 15 20 25

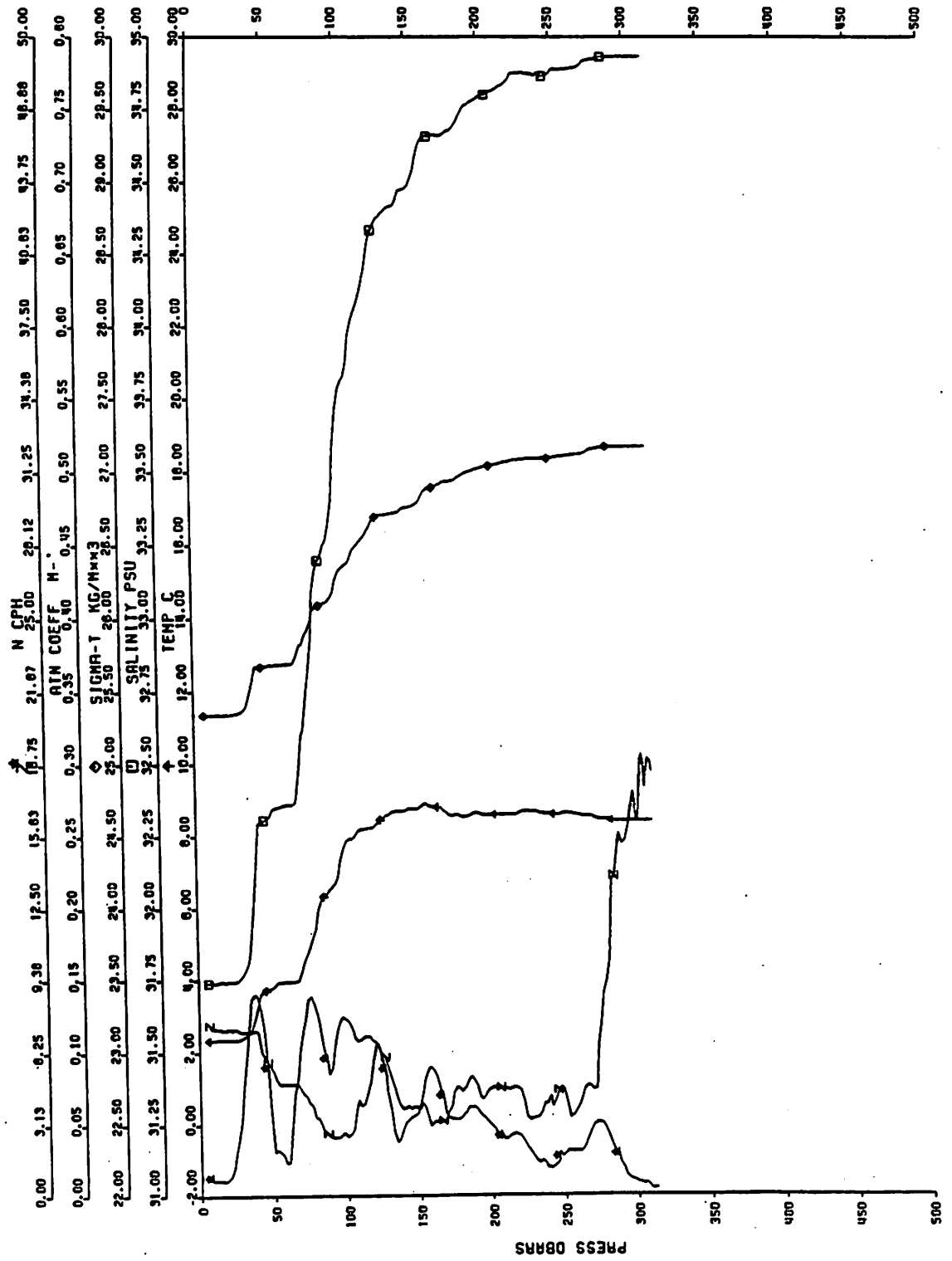
PO4 (μM)
0.0 0.5 1.0 1.5 2.0



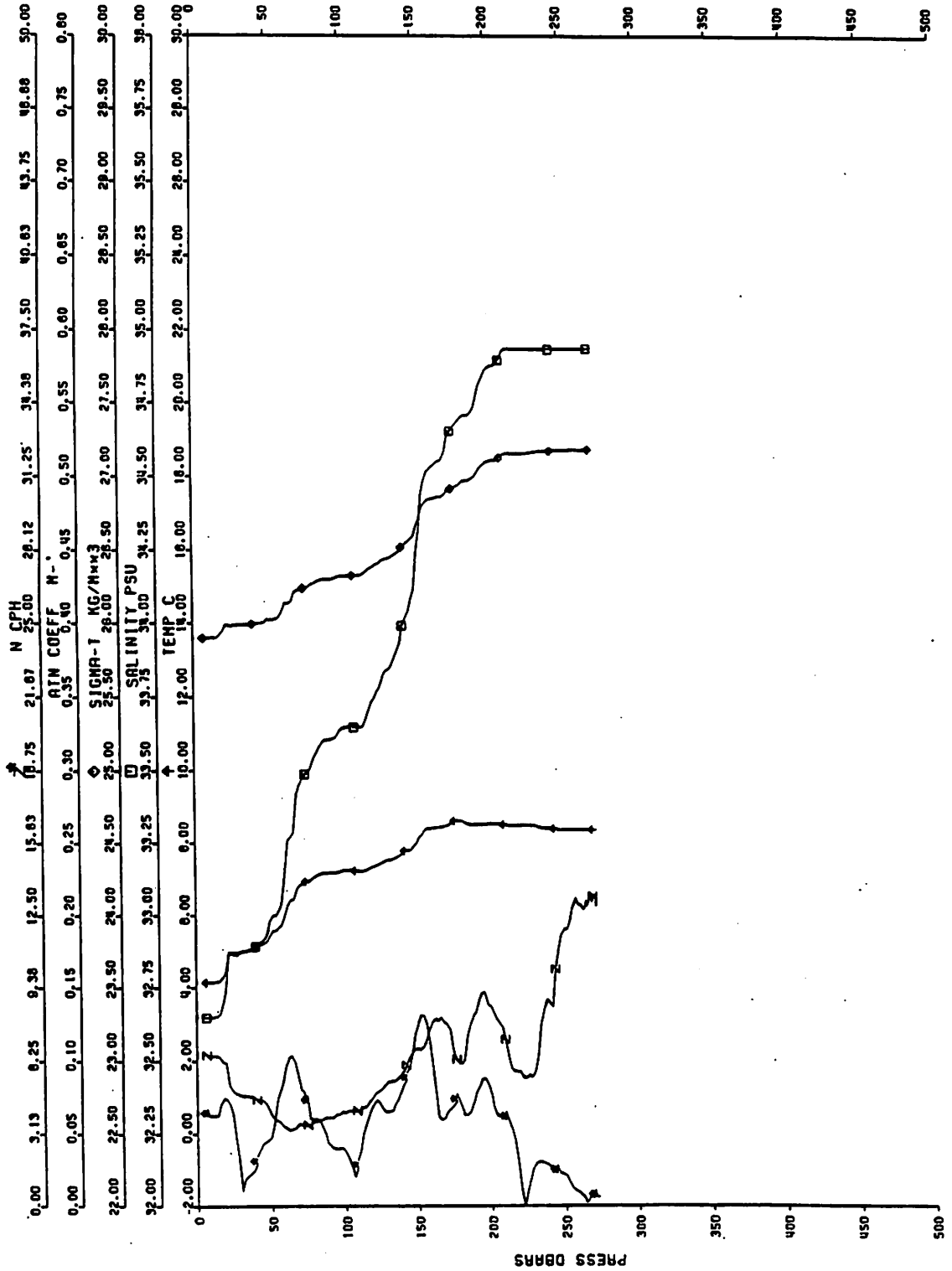
CRUISE: OC181
14 FEB 87
13: 07: 30 GMT

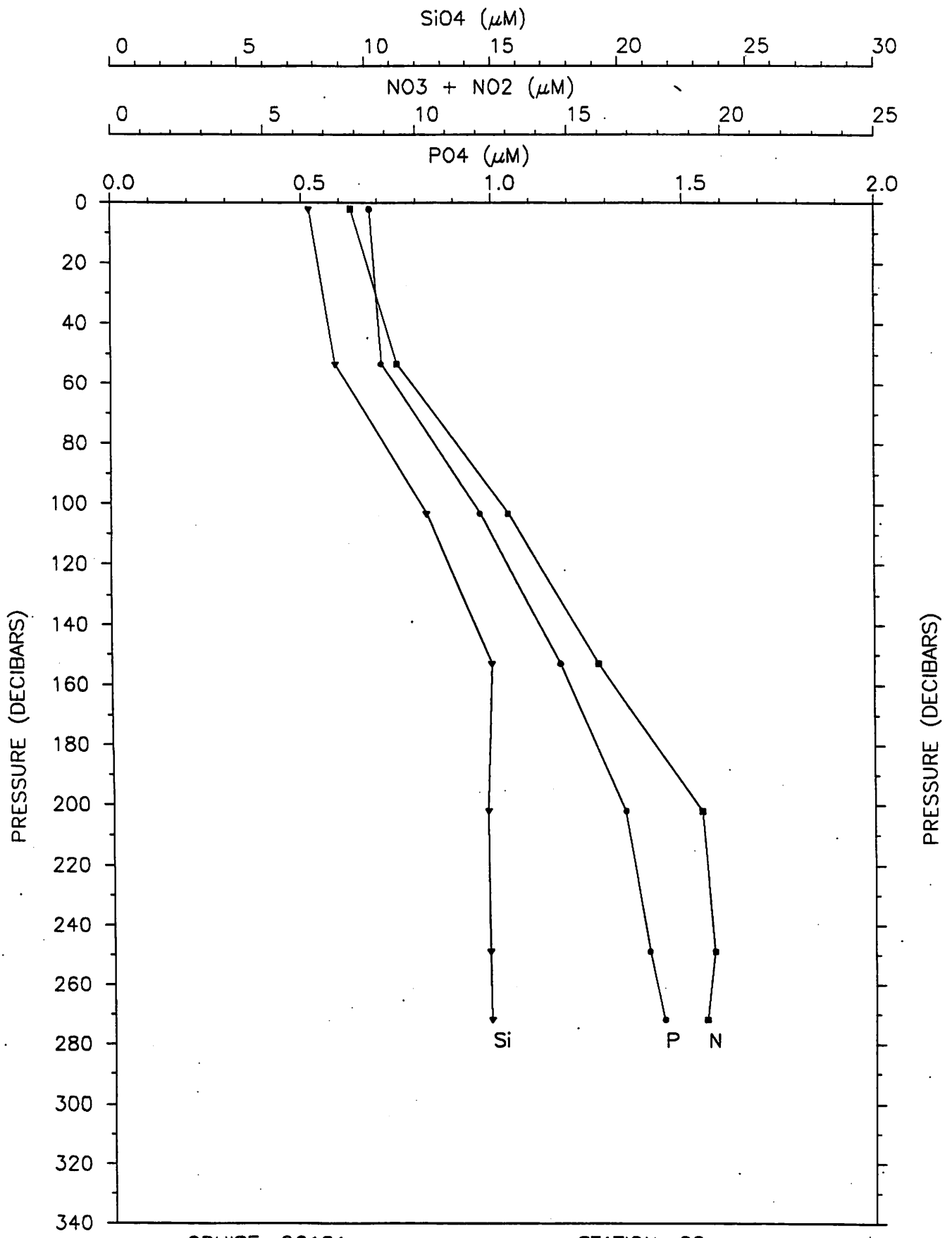
STATION: 86
42 31.65 N
67 13.88 W

0C181A CAST #87



0C181A CAST #88



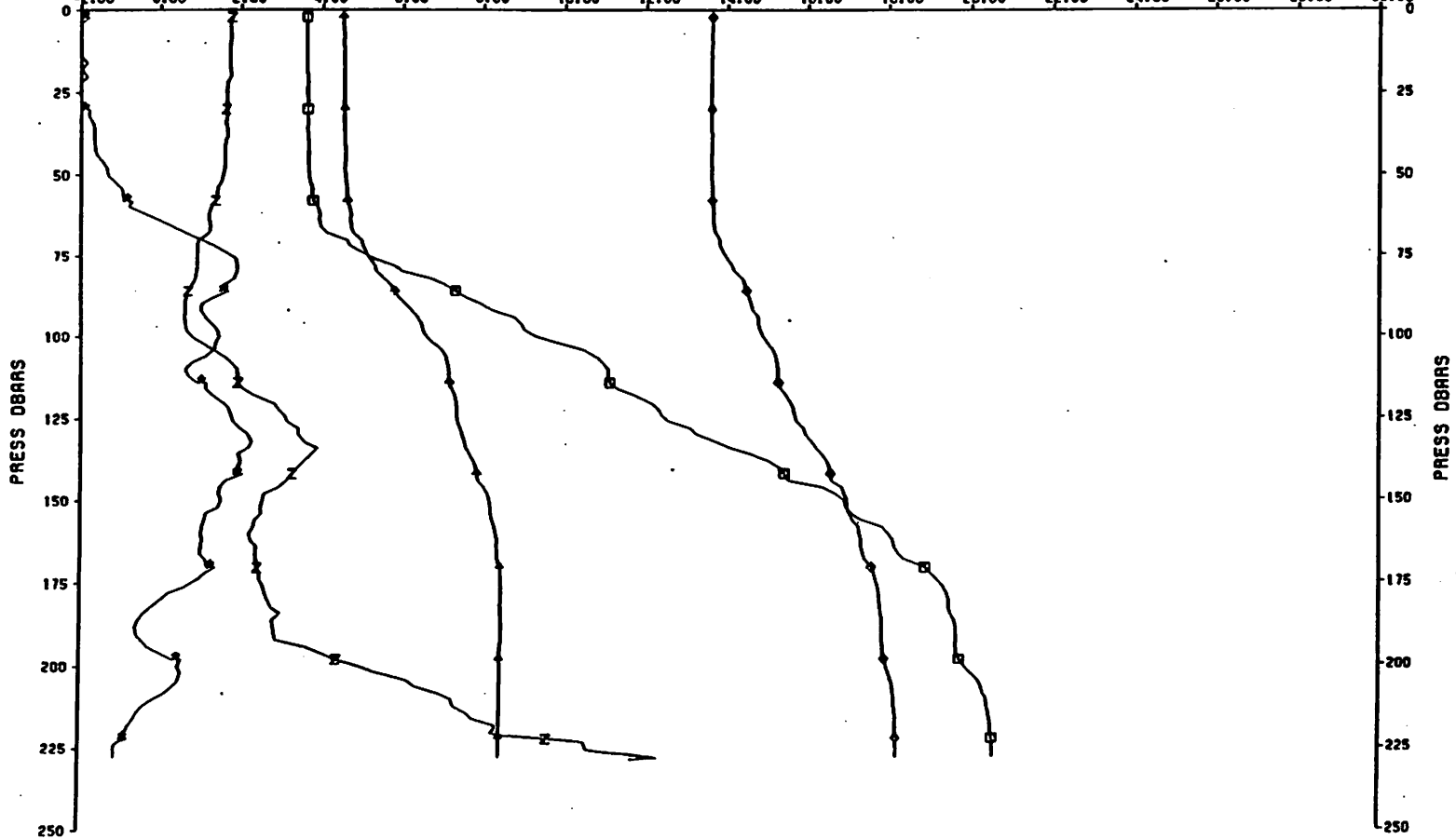


CRUISE: OC181
 14 FEB 87
 16: 22: 30 GMT

STATION: 88
 42 32.10 N
 67 29.02 W

0C181A CAST #89

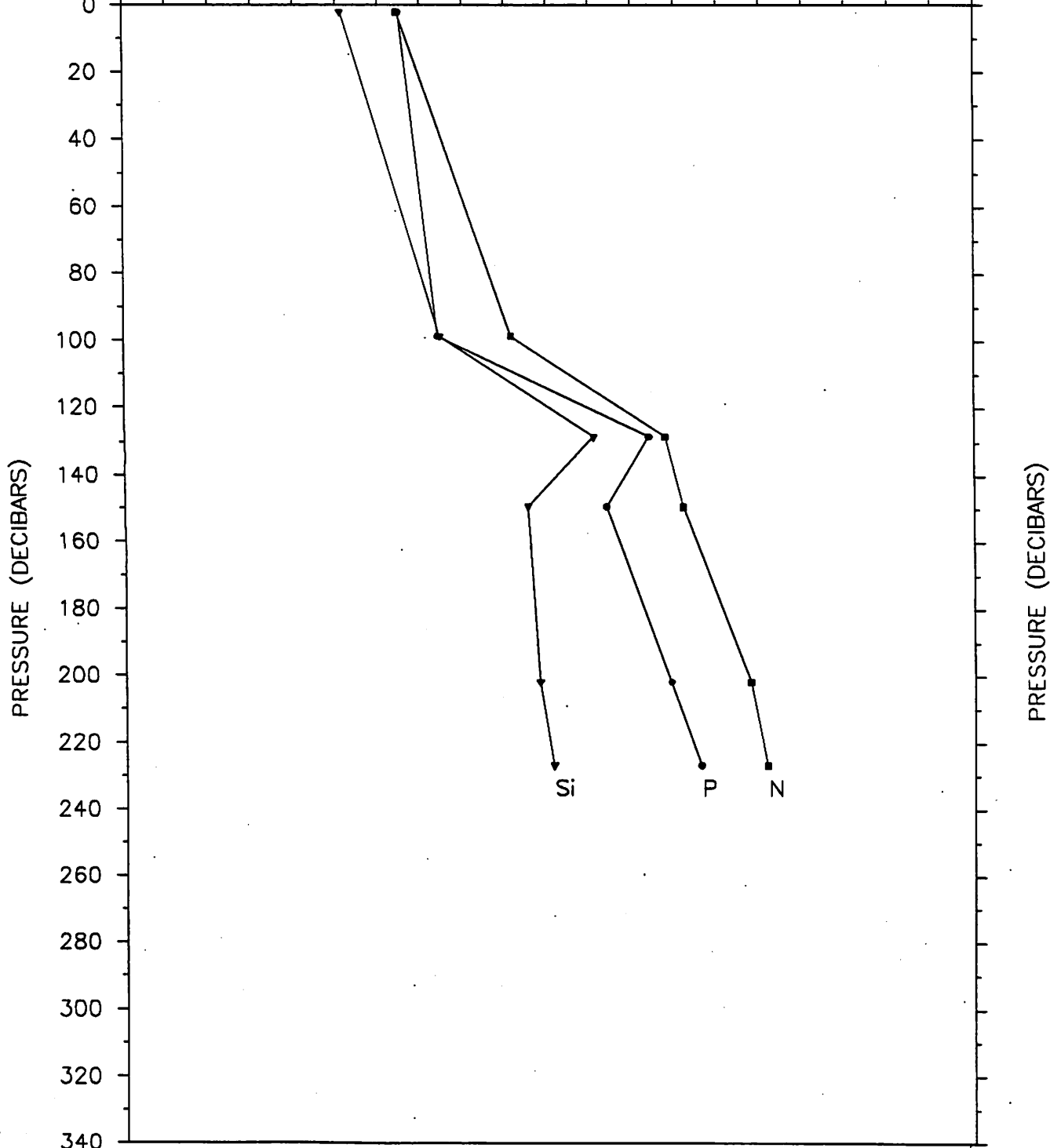
| | | | | | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|---------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0.00 | 3.13 | 6.25 | 9.38 | 12.50 | 15.63 | 18.75 | 21.87 | 25.00 | 28.12 | 31.25 | 34.38 | 37.50 | 40.63 | 43.75 | 46.88 | 50.00 |
| | | | | | | | | N CPH | | | | | | | | |
| 0.00 | 0.05 | 0.10 | 0.15 | 0.20 | 0.25 | 0.30 | 0.35 | 0.40 | 0.45 | 0.50 | 0.55 | 0.60 | 0.65 | 0.70 | 0.75 | 0.80 |
| | | | | | | | | ATN COEFF M ⁻¹ | | | | | | | | |
| 22.00 | 22.50 | 23.00 | 23.50 | 24.00 | 24.50 | 25.00 | 25.50 | 26.00 | 26.50 | 27.00 | 27.50 | 28.00 | 28.50 | 29.00 | 29.50 | 30.00 |
| | | | | | | | | SIGMA-T KG/M ³ | | | | | | | | |
| 32.00 | 32.25 | 32.50 | 32.75 | 33.00 | 33.25 | 33.50 | 33.75 | 34.00 | 34.25 | 34.50 | 34.75 | 35.00 | 35.25 | 35.50 | 35.75 | 36.00 |
| | | | | | | | | SALINITY PSU | | | | | | | | |
| -2.00 | 0.00 | 2.00 | 4.00 | 6.00 | 8.00 | 10.00 | 12.00 | 14.00 | 16.00 | 18.00 | 20.00 | 22.00 | 24.00 | 26.00 | 28.00 | 30.00 |
| | | | | | | | | TEMP C | | | | | | | | |



SiO4 (μM)
0 5 10 15 20 25 30

NO3 + NO2 (μM)
0 5 10 15 20 25

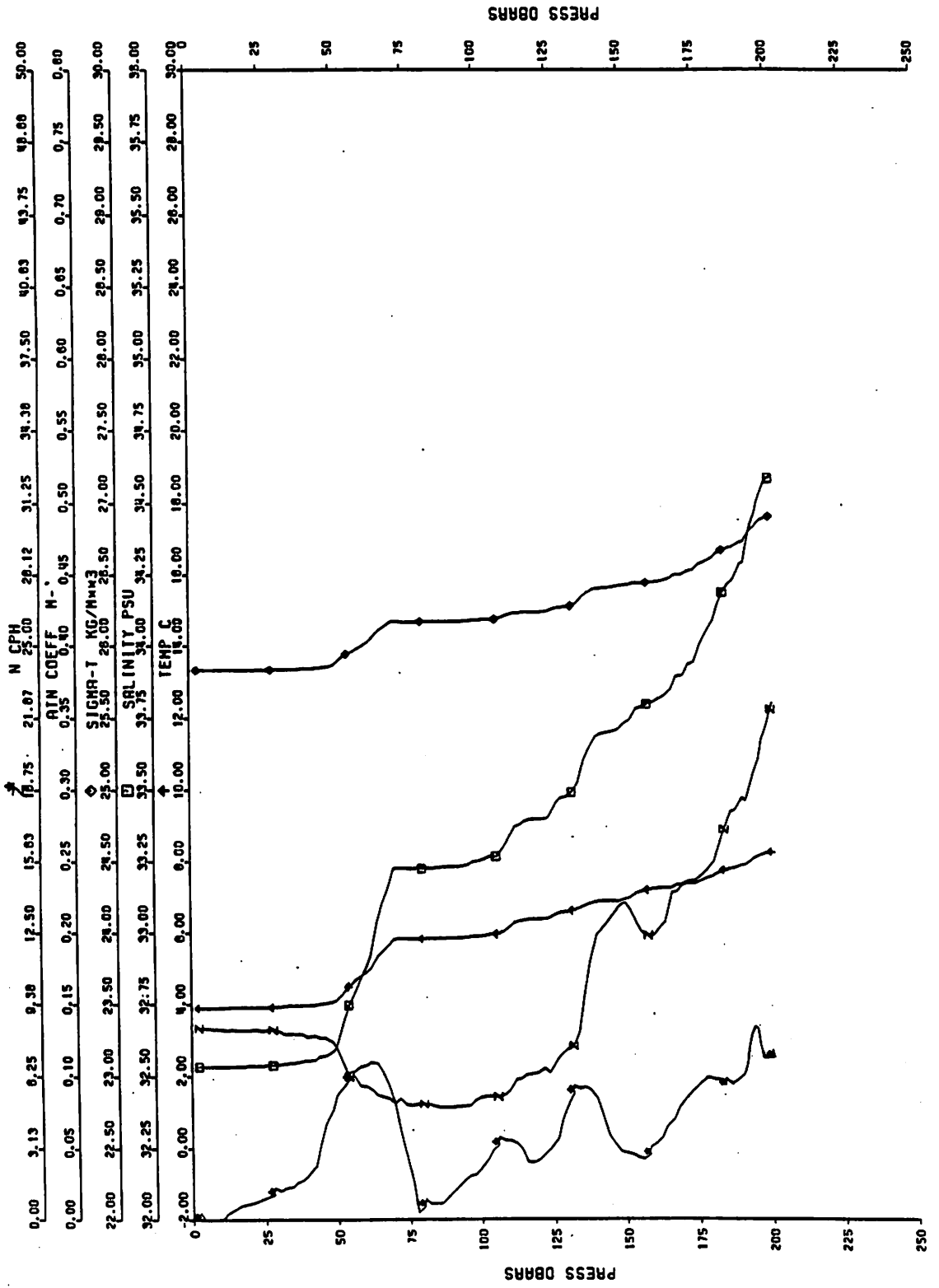
P04 (μM)
0.0 0.5 1.0 1.5 2.0

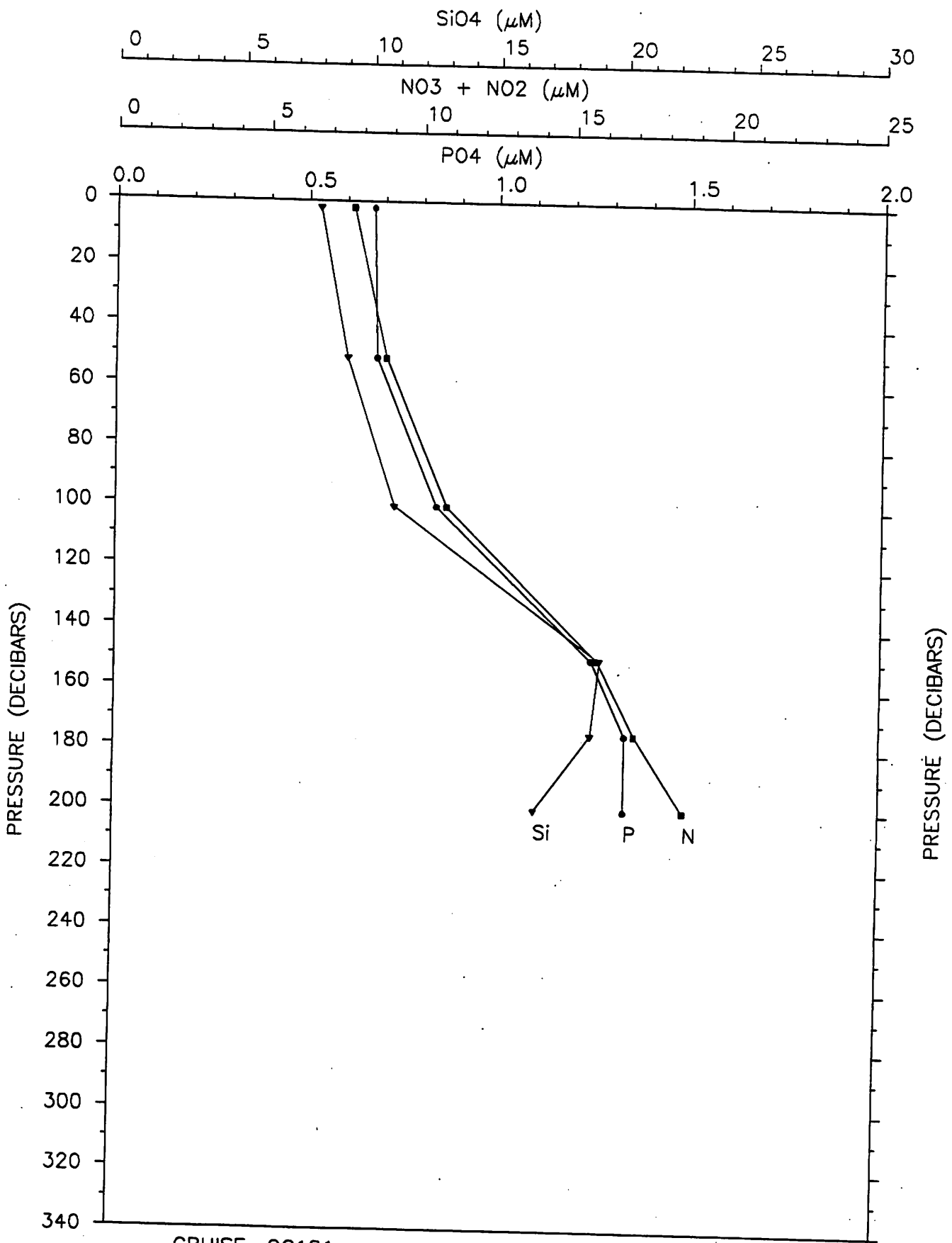


CRUISE: OC181
14 FEB 87
18: 52: 30 GMT

STATION: 89
42 32.46 N
67 44.91 W

0C181A CAST #90

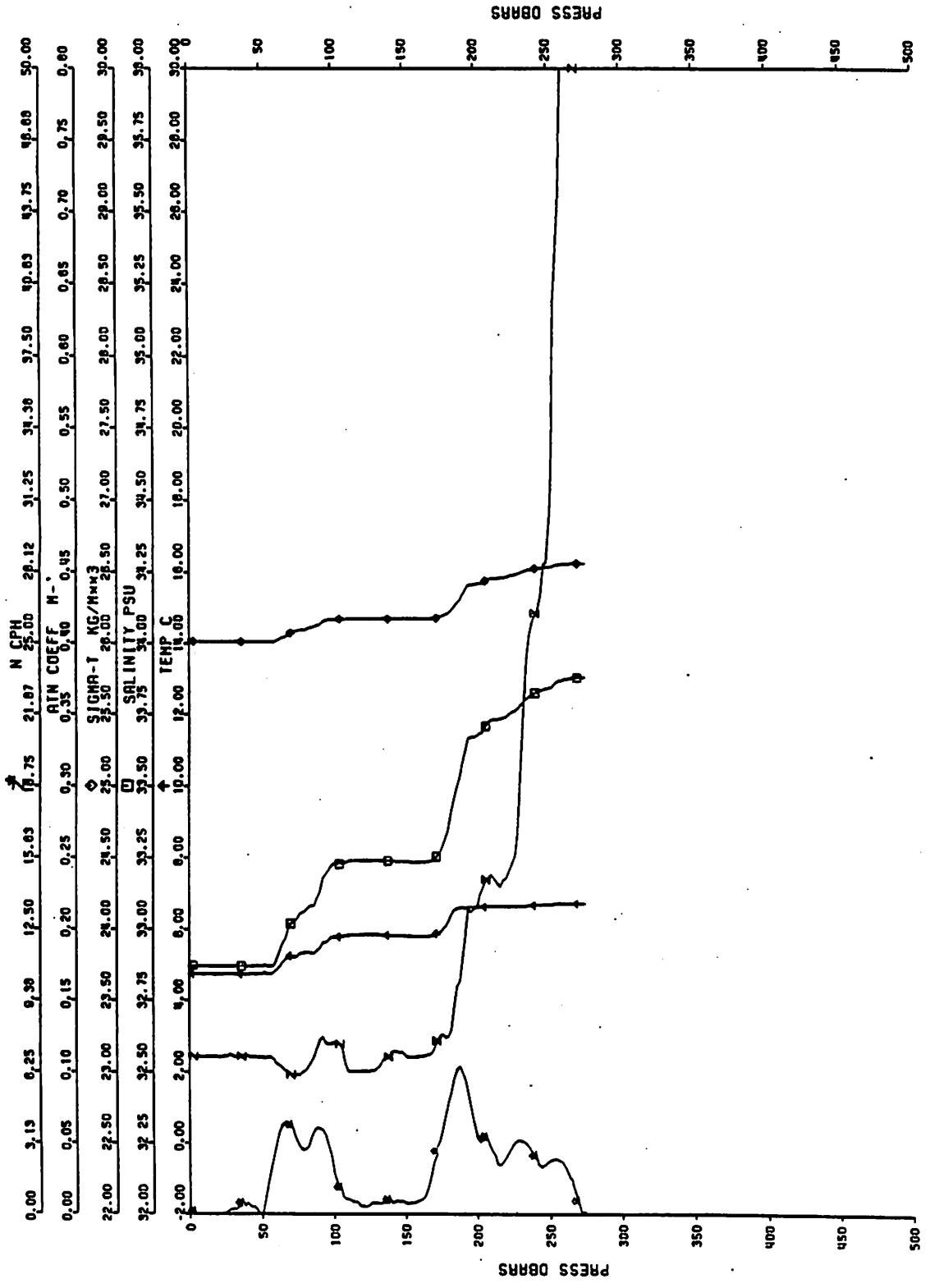


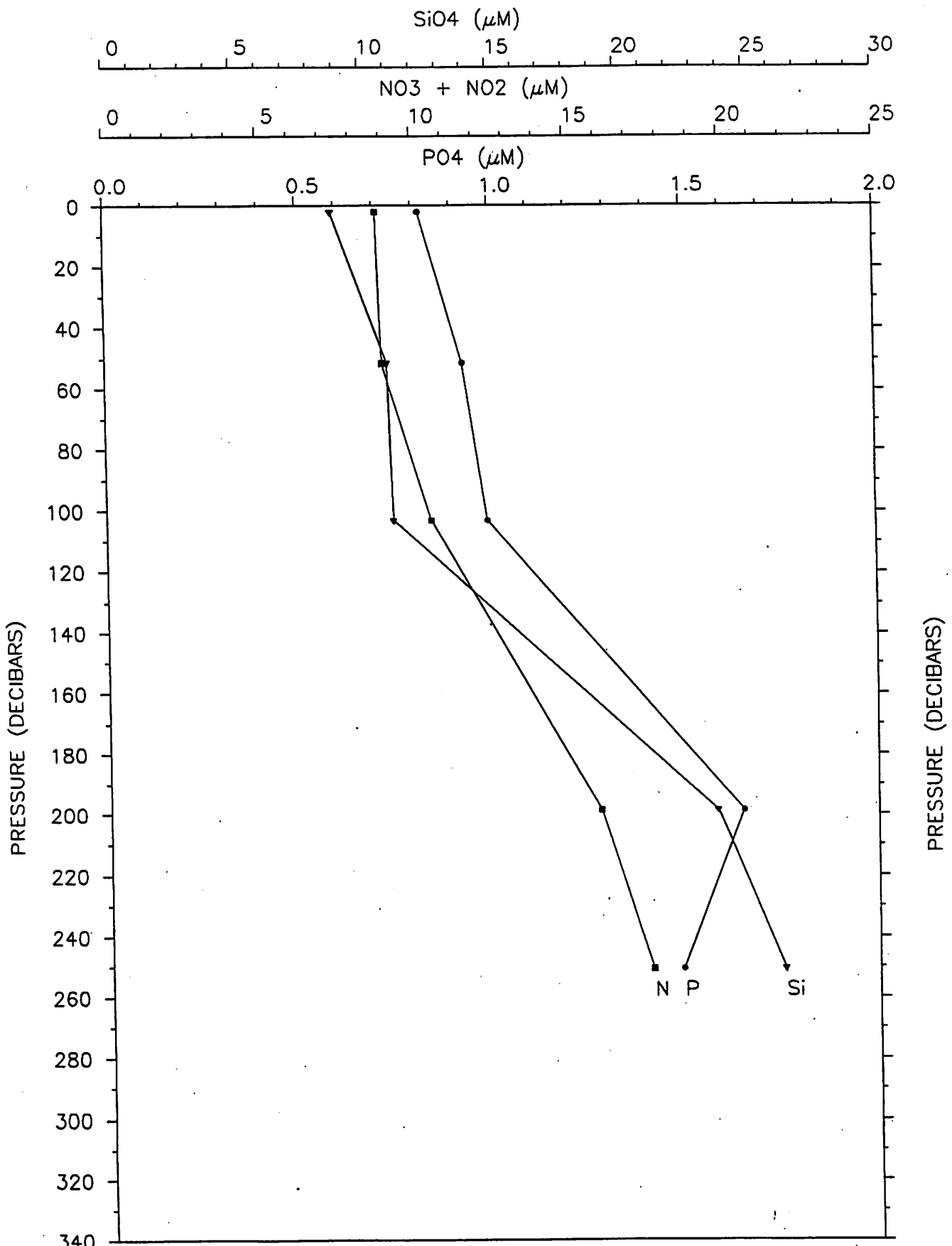


CRUISE: OC181
 14 FEB 87
 21: 00: 00 GMT

STATION: 90
 42 33.40 N
 67 59.96 W

0C181U CAST #91

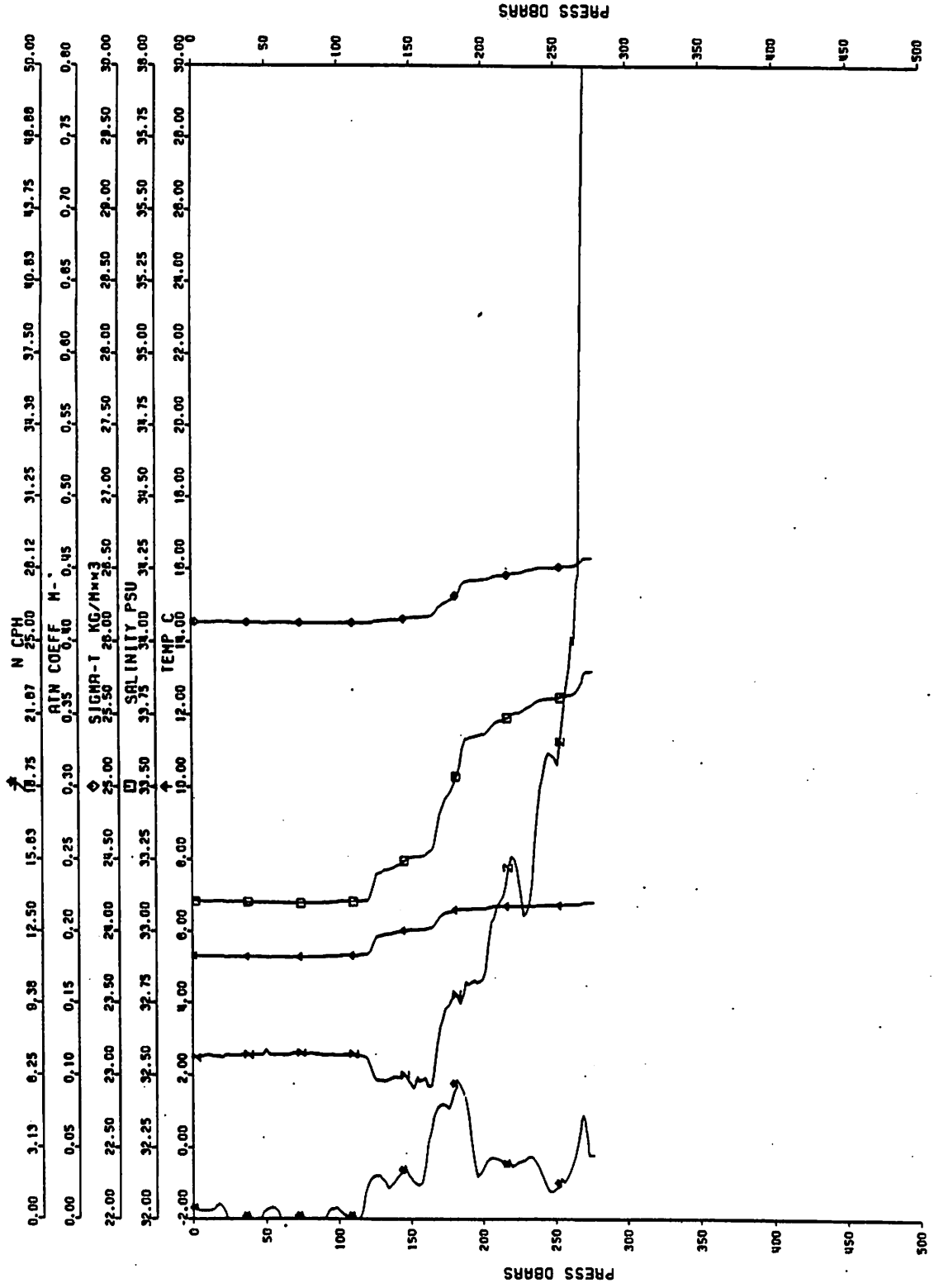


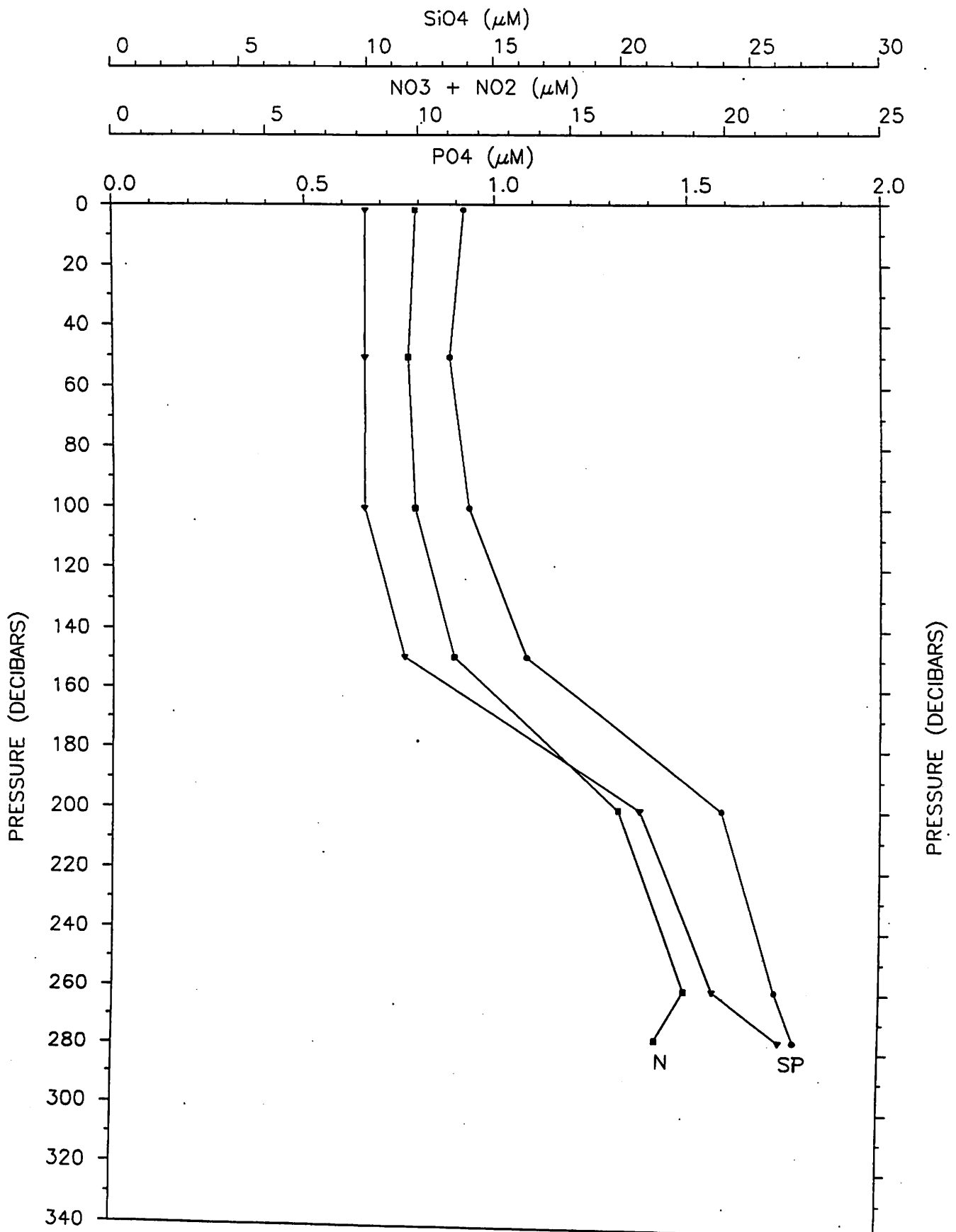


CRUISE: OC181
 15 FEB 87
 07: 15: 00 GMT

STATION: 91
 42 31.04 N
 69 30.94 W

0C181B CAST #92



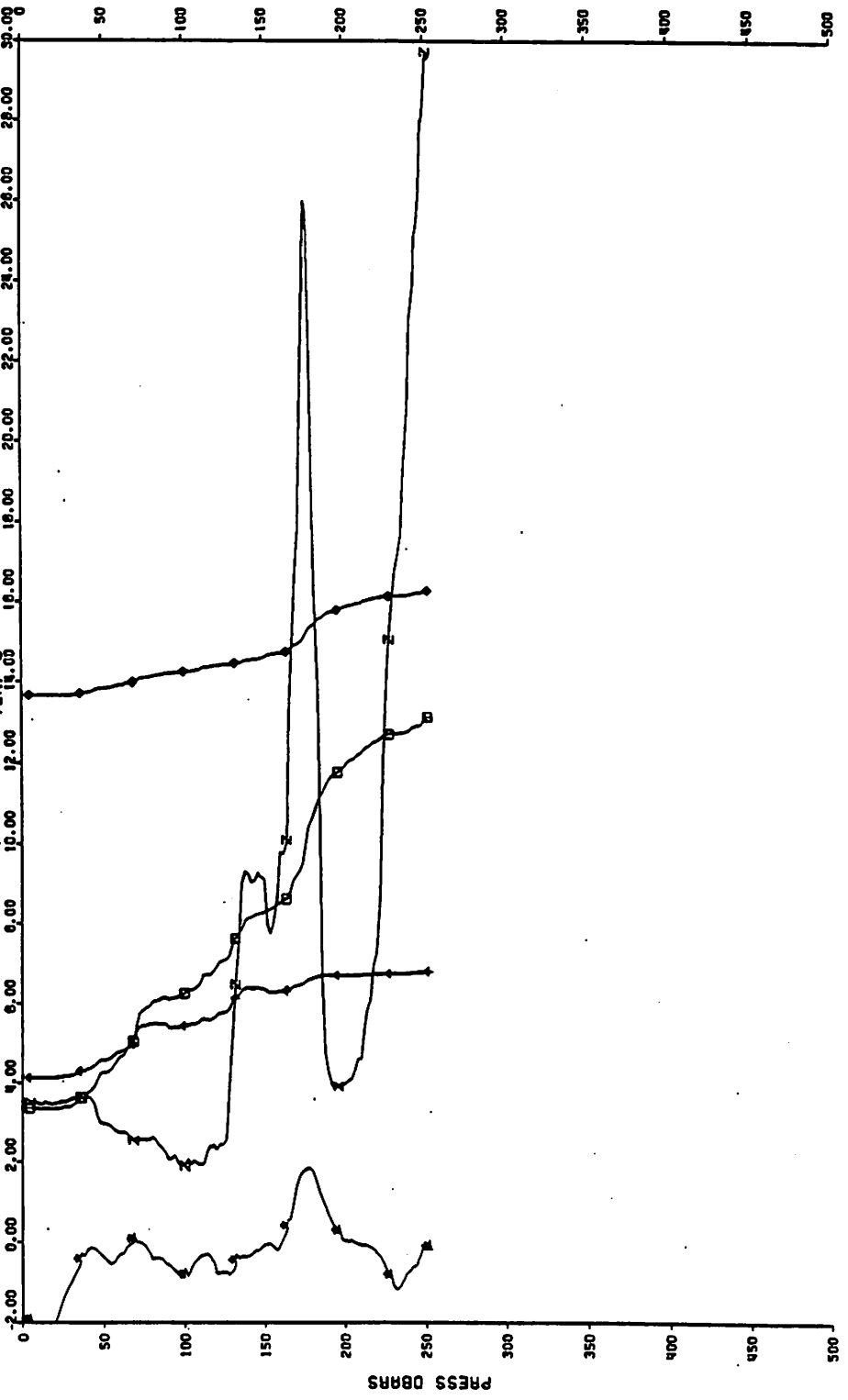


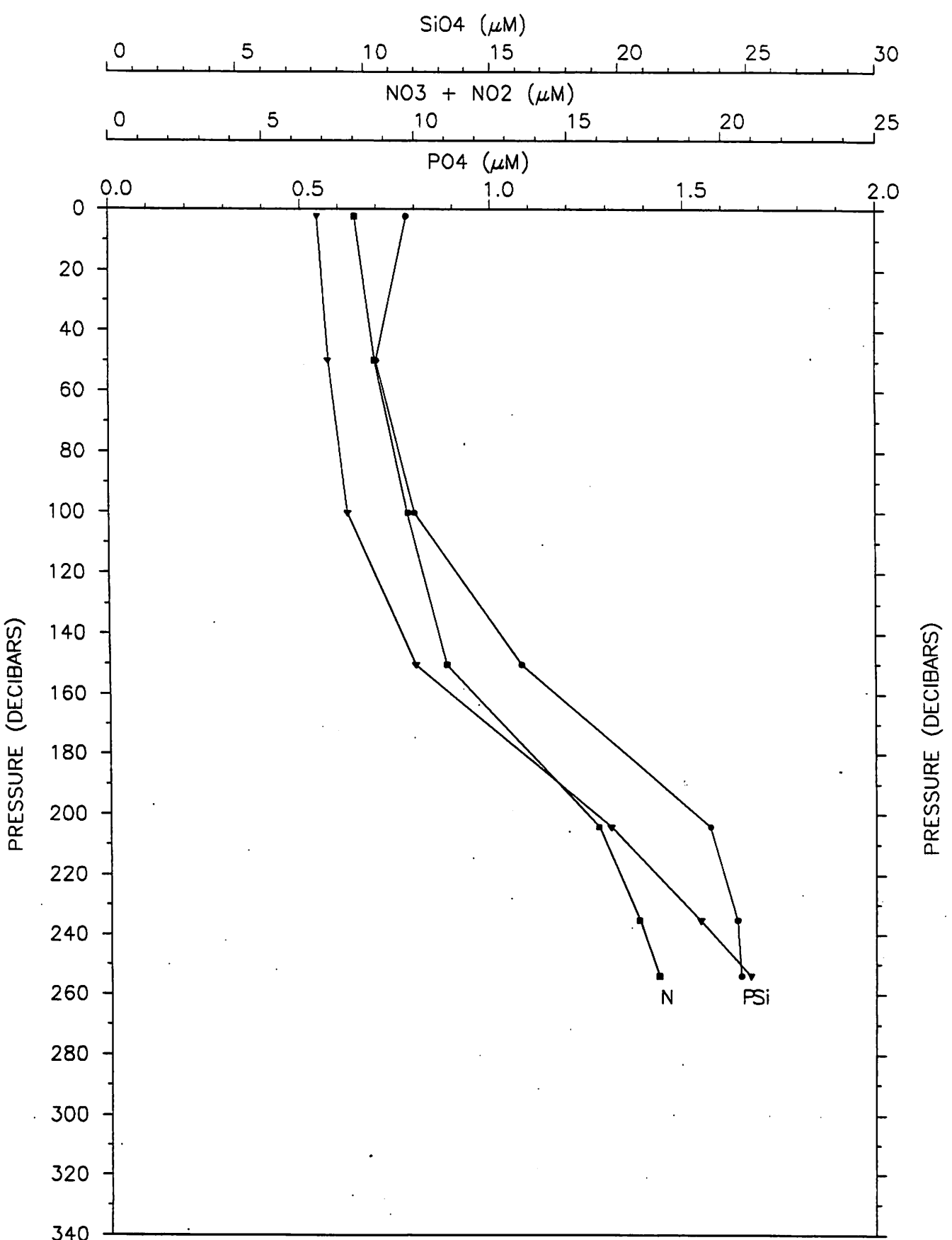
CRUISE: OC181
 15 FEB 87
 09: 15: 00 GMT

STATION: 92
 42 40.01 N
 69 37.98 W

0C181U CAST #93

| | | | | | | | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0.00 | 3.13 | 0.25 | 0.30 | 9.30 | 12.50 | 15.03 | 18.75 | 21.07 | M CPH | 25.00 | 28.12 | 31.25 | 34.30 | 37.50 | 40.03 | 42.75 | 45.00 | 50.00 |
| 0.00 | 0.05 | 0.10 | 0.15 | 0.20 | 0.25 | 0.30 | 0.35 | 0.40 | M | 0.45 | 0.50 | 0.55 | 0.60 | 0.65 | 0.70 | 0.75 | 0.80 | |
| 22.00 | 22.50 | 23.00 | 23.50 | 24.00 | 24.50 | 25.00 | 25.50 | 26.00 | SIGMA-T | 26.50 | 27.00 | 27.50 | 28.00 | 28.50 | 29.00 | 29.50 | 30.00 | |
| 32.00 | 32.25 | 32.50 | 32.75 | 33.00 | 33.25 | 33.50 | 33.75 | 34.00 | SQ INLY PSU | 34.25 | 34.50 | 34.75 | 35.00 | 35.25 | 35.50 | 35.75 | 36.00 | |



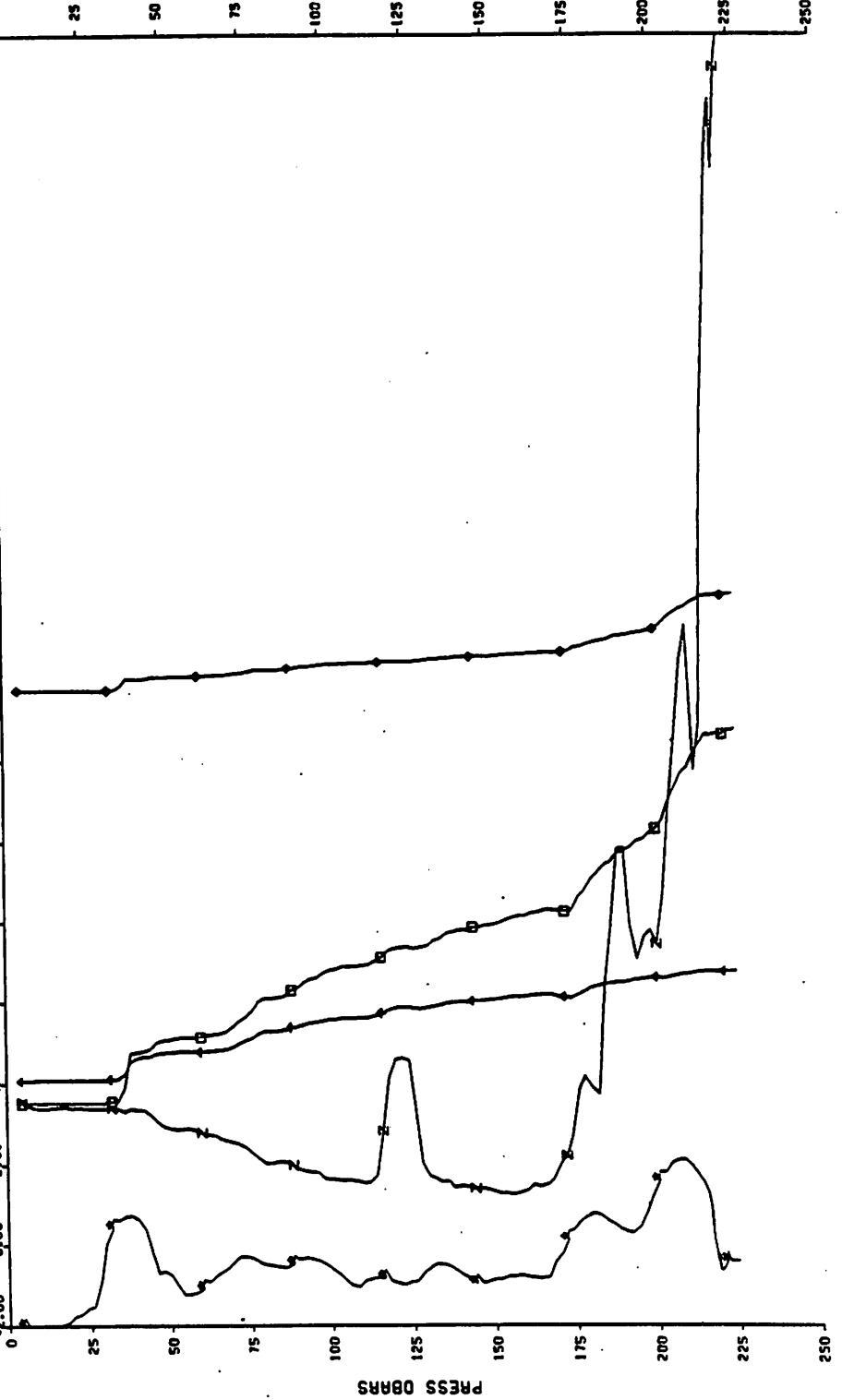


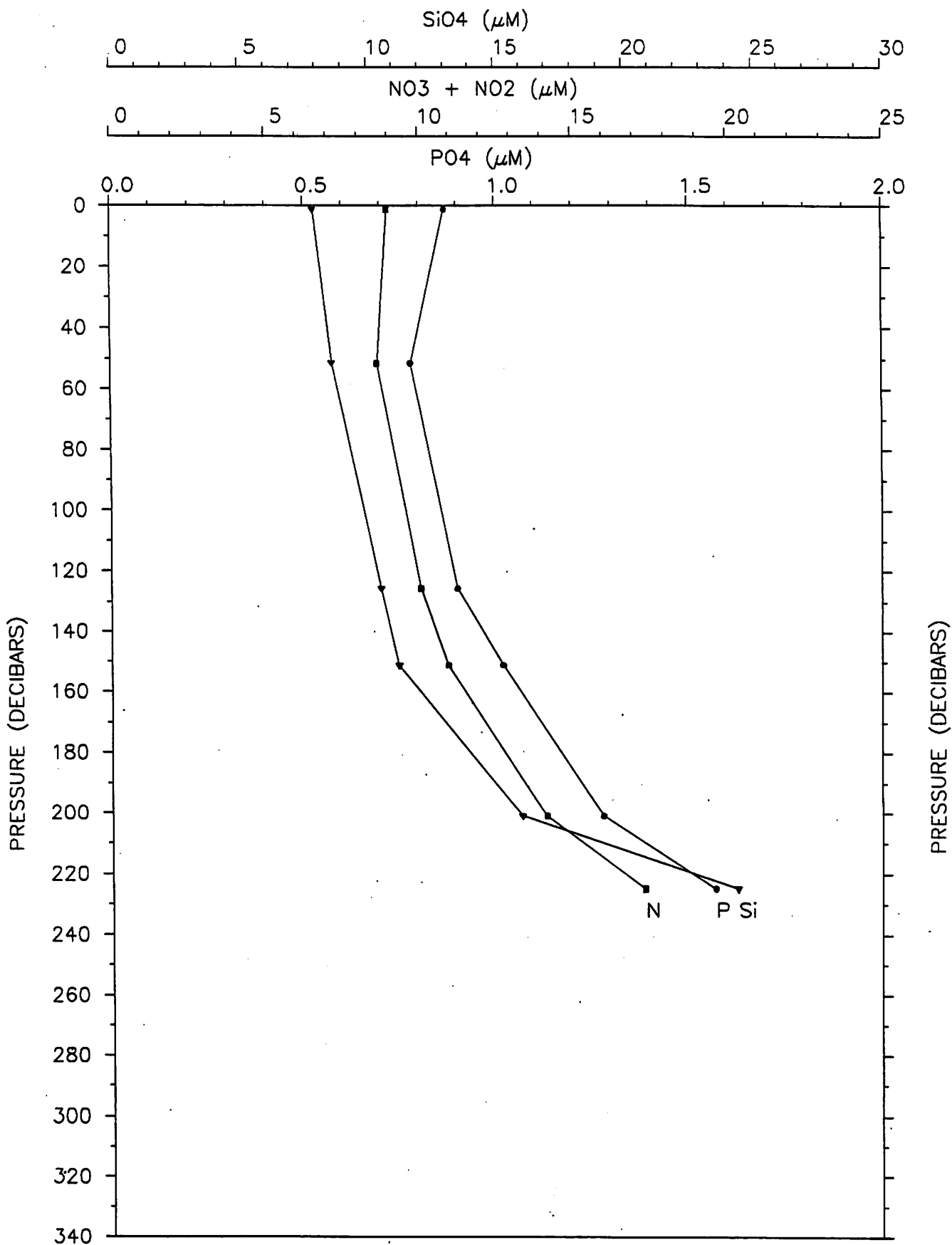
CRUISE: OC181
 15 FEB 87
 11: 30: 00 GMT

STATION: 93
 42 47.99 N
 69 44.87 W

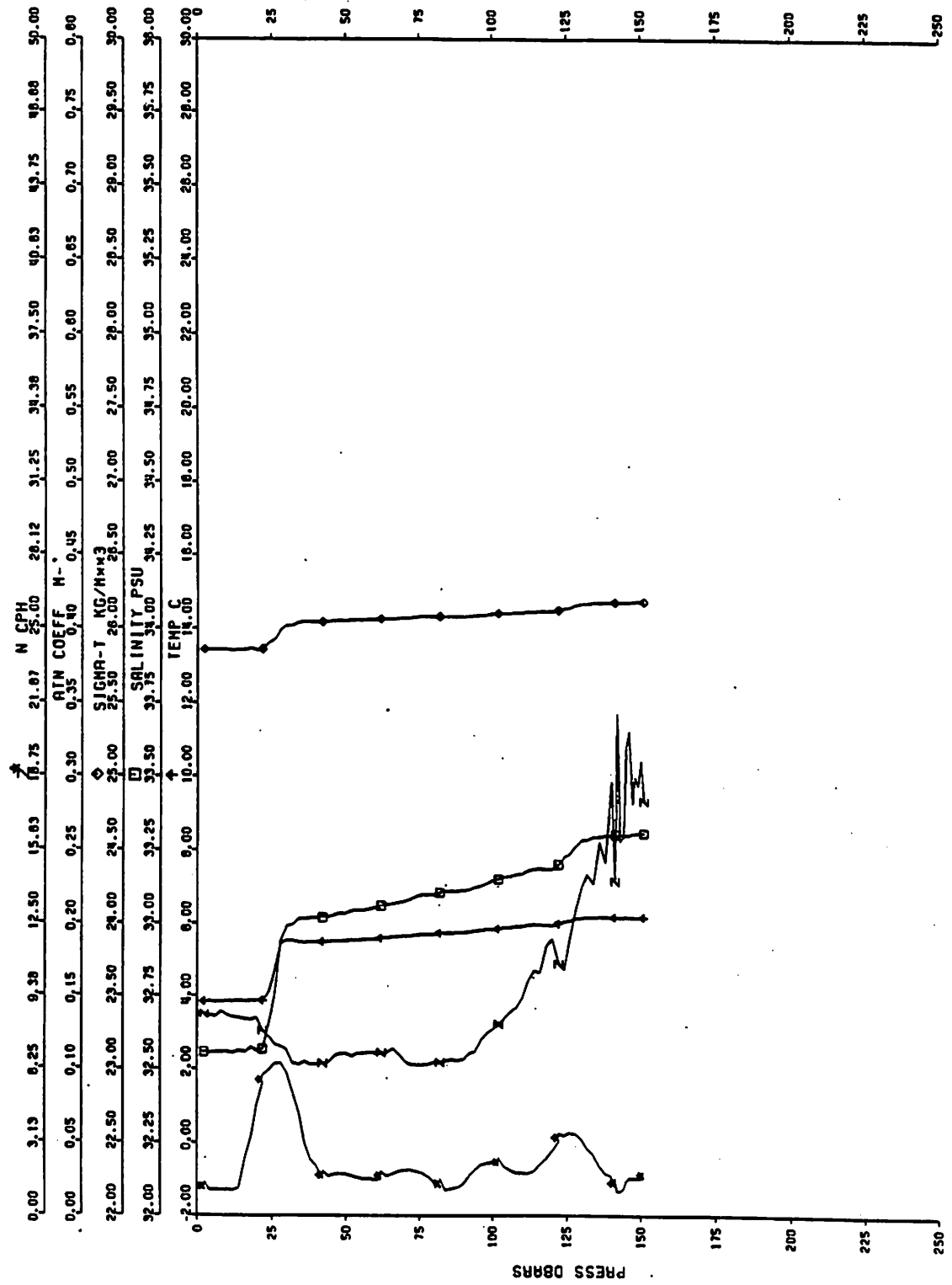
0C181A CAST #94

| | | | | | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0.00 | 3.15 | 6.25 | 9.38 | 12.50 | 15.63 | 18.75 | 21.87 | 25.00 | 28.12 | 31.25 | 34.38 | 37.50 | 40.63 | 43.75 | 46.88 | 50.00 |
| 0.00 | 0.05 | 0.10 | 0.15 | 0.20 | 0.25 | 0.30 | 0.35 | 0.40 | 0.45 | 0.50 | 0.55 | 0.60 | 0.65 | 0.70 | 0.75 | 0.80 |
| 22.00 | 22.50 | 23.00 | 23.50 | 24.00 | 24.50 | 25.00 | 25.50 | 26.00 | 26.50 | 27.00 | 27.50 | 28.00 | 28.50 | 29.00 | 29.50 | 30.00 |
| 32.00 | 32.25 | 32.50 | 32.75 | 33.00 | 33.25 | 33.50 | 33.75 | 34.00 | 34.25 | 34.50 | 34.75 | 35.00 | 35.25 | 35.50 | 35.75 | 36.00 |
| 0 | 0.00 | 2.00 | 4.00 | 6.00 | 8.00 | 10.00 | 12.00 | 14.00 | 16.00 | 18.00 | 20.00 | 22.00 | 24.00 | 26.00 | 28.00 | 30.00 |





0C181U CAST #95



SiO₄ (μ M)

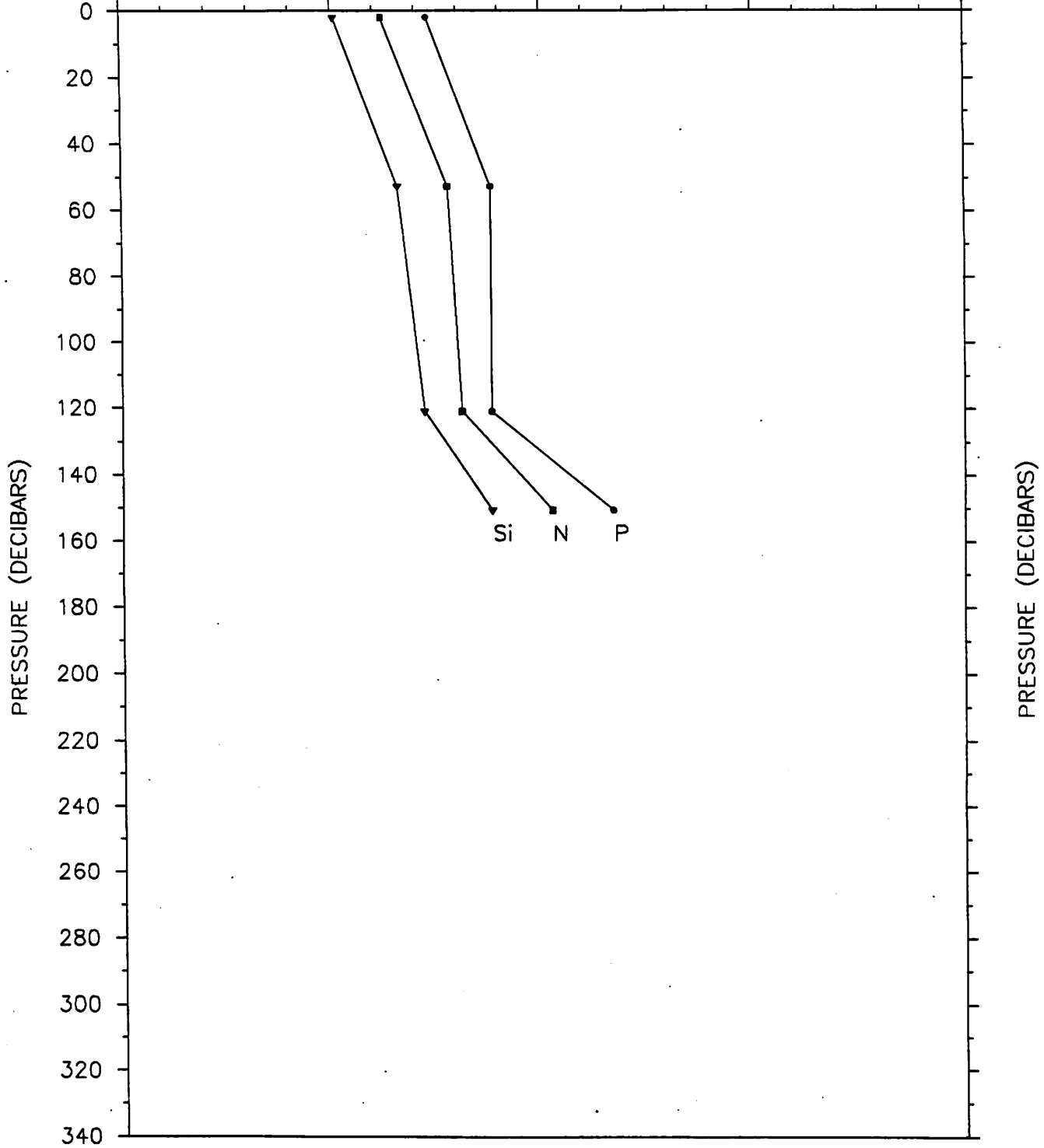
0 5 10 15 20 25 30

NO₃ + NO₂ (μ M)

0 5 10 15 20 25

PO₄ (μ M)

0.0 0.5 1.0 1.5 2.0



CRUISE: OC181
15 FEB 87 -
14: 22: 30 GMT

STATION: 95
43 05.43 N
69 58.42 W

Appendix I. - Data listings

The 2-dbar-averaged data are listed in Appendix I. For the data listings, time is in Eastern Standard Time, SALIN is the salinity, OXY is the dissolved oxygen, ATN is the beam attenuation coefficient, SIGT is the density anomaly σ_t , N is the Brunt-Vaisala frequency, DYHT A is the dynamic height anomaly, and S SPD is the speed of sound in seawater.

| SHIP OC | CRUISE 181 | STATION 1 | DATE 05 FEB 1987 | EST 1414 | LATITUDE 41°26.5'N | LONGITUDE 69°37.8'W | DEPTH 26 | | | | | | | | | | | | |
|------------|---------------|--------------|---------------------|-------------|------------------------|----------------------------|--|--------------|----------|--|--|--|--|--|--|--|--|--|--|
| DEPTH m | PRESS dbar | TEMP °C | SALIN psu | OXY ml/l | ATN m ⁻¹ | SIGT gm/cm ³ | DYHT A 10m ² /s ² | S SPD m/s | N cph | | | | | | | | | | |
| 3 | 2.7 | 3.893 | 32.522 | 7.90 | 0.54 | 25.826 | 0.000 | 1463. | -0.5 | | | | | | | | | | |
| 4 | 3.9 | 3.895 | 32.522 | 7.90 | 0.55 | 25.825 | 0.002 | 1463. | -0.5 | | | | | | | | | | |
| 6 | 5.9 | 3.894 | 32.521 | 7.91 | 0.55 | 25.825 | 0.007 | 1463. | -0.5 | | | | | | | | | | |
| 8 | 8.0 | 3.895 | 32.521 | 7.92 | 0.55 | 25.825 | 0.011 | 1463. | -0.5 | | | | | | | | | | |
| 10 | 10.1 | 3.895 | 32.521 | 7.92 | 0.55 | 25.825 | 0.016 | 1463. | -0.5 | | | | | | | | | | |
| 11 | 11.3 | 3.894 | 32.520 | 7.92 | 0.56 | 25.824 | 0.018 | 1463. | -0.4 | | | | | | | | | | |
| 12 | 11.8 | 3.894 | 32.520 | 7.93 | 0.56 | 25.825 | 0.020 | 1463. | -0.4 | | | | | | | | | | |
| 13 | 13.1 | 3.894 | 32.521 | 7.93 | 0.55 | 25.825 | 0.022 | 1463. | -0.4 | | | | | | | | | | |
| 14 | 14.0 | 3.894 | 32.521 | 7.93 | 0.56 | 25.825 | 0.024 | 1463. | -0.6 | | | | | | | | | | |
| 15 | 15.0 | 3.894 | 32.521 | 7.93 | 0.56 | 25.825 | 0.027 | 1463. | -0.7 | | | | | | | | | | |
| 16 | 16.0 | 3.895 | 32.520 | 7.93 | 0.55 | 25.824 | 0.029 | 1463. | -0.7 | | | | | | | | | | |
| 17 | 17.0 | 3.897 | 32.520 | 7.92 | 0.55 | 25.824 | 0.031 | 1463. | -0.7 | | | | | | | | | | |
| 18 | 18.0 | 3.897 | 32.520 | 7.92 | 0.55 | 25.824 | 0.033 | 1463. | -0.7 | | | | | | | | | | |
| 19 | 18.9 | 3.897 | 32.520 | 7.91 | 0.56 | 25.824 | 0.035 | 1463. | -0.6 | | | | | | | | | | |
| 20 | 20.0 | 3.897 | 32.520 | 7.91 | 0.56 | 25.824 | 0.037 | 1463. | -0.5 | | | | | | | | | | |
| 21 | 21.0 | 3.897 | 32.520 | 7.90 | 0.54 | 25.824 | 0.039 | 1463. | -0.6 | | | | | | | | | | |
| 22 | 21.9 | 3.897 | 32.520 | 7.89 | 0.55 | 25.824 | 0.042 | 1463. | -0.6 | | | | | | | | | | |
| 23 | 23.1 | 3.898 | 32.520 | 7.88 | 0.54 | 25.823 | 0.044 | 1463. | -0.6 | | | | | | | | | | |
| 24 | 24.0 | 3.898 | 32.519 | 7.83 | 0.53 | 25.823 | 0.046 | 1463. | -0.6 | | | | | | | | | | |
| 24 | 24.6 | 3.899 | 32.518 | 7.83 | 0.53 | 25.822 | 0.047 | 1463. | -0.6 | | | | | | | | | | |

| SHIP OC | CRUISE 181 | STATION 2 | DATE 05 FEB 1987 | EST 1514 | LATITUDE 41°29.1'N | LONGITUDE 69°30.9'W | DEPTH 38 | | | | | | | | | | | | |
|------------|---------------|--------------|---------------------|-------------|------------------------|----------------------------|--|--------------|----------|--|--|--|--|--|--|--|--|--|--|
| DEPTH m | PRESS dbar | TEMP °C | SALIN psu | OXY ml/l | ATN m ⁻¹ | SIGT gm/cm ³ | DYHT A 10m ² /s ² | S SPD m/s | N cph | | | | | | | | | | |
| 2 | 2.4 | 4.442 | 32.749 | 7.49 | 0.37 | 25.951 | 0.000 | 1466. | 0.2 | | | | | | | | | | |
| 4 | 4.1 | 4.447 | 32.748 | 7.51 | 0.36 | 25.949 | 0.003 | 1466. | 0.2 | | | | | | | | | | |
| 6 | 6.2 | 4.445 | 32.747 | 7.51 | 0.36 | 25.949 | 0.008 | 1466. | 0.2 | | | | | | | | | | |
| 8 | 8.1 | 4.458 | 32.751 | 7.53 | 0.36 | 25.951 | 0.012 | 1466. | 0.2 | | | | | | | | | | |
| 10 | 10.0 | 4.452 | 32.749 | 7.55 | 0.36 | 25.950 | 0.015 | 1466. | 0.2 | | | | | | | | | | |
| 12 | 11.9 | 4.447 | 32.748 | 7.57 | 0.36 | 25.950 | 0.019 | 1466. | 0.4 | | | | | | | | | | |
| 14 | 13.9 | 4.442 | 32.748 | 7.58 | 0.36 | 25.950 | 0.023 | 1466. | -0.1 | | | | | | | | | | |
| 16 | 16.0 | 4.443 | 32.748 | 7.59 | 0.36 | 25.950 | 0.028 | 1466. | -0.4 | | | | | | | | | | |
| 18 | 18.0 | 4.452 | 32.750 | 7.60 | 0.36 | 25.951 | 0.032 | 1466. | 0.2 | | | | | | | | | | |
| 20 | 19.9 | 4.463 | 32.750 | 7.60 | 0.35 | 25.950 | 0.036 | 1466. | -0.2 | | | | | | | | | | |
| 21 | 21.3 | 4.462 | 32.749 | 7.60 | 0.36 | 25.949 | 0.039 | 1466. | -0.3 | | | | | | | | | | |
| 22 | 21.9 | 4.461 | 32.750 | 7.60 | 0.35 | 25.949 | 0.040 | 1466. | -0.4 | | | | | | | | | | |
| 23 | 23.0 | 4.464 | 32.751 | 7.61 | 0.35 | 25.951 | 0.042 | 1466. | -0.6 | | | | | | | | | | |
| 24 | 24.0 | 4.460 | 32.750 | 7.61 | 0.35 | 25.950 | 0.044 | 1466. | -0.4 | | | | | | | | | | |
| 25 | 25.0 | 4.462 | 32.750 | 7.59 | 0.35 | 25.950 | 0.046 | 1466. | -0.4 | | | | | | | | | | |
| 26 | 26.1 | 4.461 | 32.749 | 7.60 | 0.35 | 25.949 | 0.048 | 1466. | -0.3 | | | | | | | | | | |
| 27 | 27.1 | 4.461 | 32.749 | 7.60 | 0.36 | 25.949 | 0.050 | 1466. | 0.1 | | | | | | | | | | |
| 28 | 27.9 | 4.462 | 32.750 | 7.58 | 0.36 | 25.949 | 0.052 | 1466. | 0.6 | | | | | | | | | | |
| 29 | 29.0 | 4.462 | 32.749 | 7.57 | 0.36 | 25.949 | 0.054 | 1466. | 0.6 | | | | | | | | | | |
| 30 | 30.0 | 4.464 | 32.751 | 7.54 | 0.36 | 25.950 | 0.057 | 1466. | 0.6 | | | | | | | | | | |
| 31 | 31.0 | 4.466 | 32.751 | 7.54 | 0.35 | 25.950 | 0.058 | 1466. | 0.7 | | | | | | | | | | |
| 32 | 32.1 | 4.468 | 32.751 | 7.53 | 0.35 | 25.950 | 0.061 | 1466. | 0.8 | | | | | | | | | | |
| 33 | 32.9 | 4.467 | 32.751 | 7.51 | 0.35 | 25.950 | 0.062 | 1466. | 0.8 | | | | | | | | | | |
| 34 | 34.0 | 4.466 | 32.750 | 7.49 | 0.35 | 25.950 | 0.065 | 1466. | 0.8 | | | | | | | | | | |
| 35 | 35.1 | 4.469 | 32.752 | 7.48 | 0.34 | 25.951 | 0.067 | 1466. | 0.8 | | | | | | | | | | |
| 36 | 35.9 | 4.473 | 32.753 | 7.48 | 0.35 | 25.951 | 0.069 | 1466. | 0.8 | | | | | | | | | | |

| SHIP OC | CRUISE 181 | STATION 3 | DATE 05 FEB 1987 | | EST 1603 | LATITUDE 41°30.1'N | LONGITUDE 69°25.0'W | DEPTH 60 | |
|---------|------------|-----------|------------------|----------|---------------------|-------------------------|---|-----------|-------|
| DEPTH m | PRESS dbar | TEMP °C | SALIN psu | OXY ml/l | ATN m ⁻¹ | SIGT gm/cm ³ | DYHT A 10m ² /s ² | S SPD m/s | N cph |
| 3 | 2.6 | 4.799 | 32.863 | 7.32 | 0.29 | 26.004 | 0.000 | 1467. | 0.3 |
| 4 | 4.1 | 4.797 | 32.862 | 7.35 | 0.29 | 26.003 | 0.003 | 1467. | 0.3 |
| 6 | 6.0 | 4.800 | 32.862 | 7.34 | 0.29 | 26.003 | 0.007 | 1467. | 0.3 |
| 8 | 7.8 | 4.802 | 32.862 | 7.34 | 0.29 | 26.002 | 0.010 | 1467. | 0.3 |
| 10 | 10.2 | 4.802 | 32.862 | 7.35 | 0.29 | 26.003 | 0.015 | 1467. | 0.3 |
| 12 | 11.8 | 4.800 | 32.863 | 7.34 | 0.29 | 26.003 | 0.018 | 1467. | 0.5 |
| 14 | 14.1 | 4.799 | 32.863 | 7.34 | 0.29 | 26.004 | 0.023 | 1467. | 0.5 |
| 16 | 15.7 | 4.801 | 32.863 | 7.33 | 0.30 | 26.003 | 0.026 | 1467. | 0.5 |
| 18 | 18.1 | 4.801 | 32.863 | 7.32 | 0.29 | 26.003 | 0.031 | 1467. | 0.4 |
| 20 | 20.0 | 4.801 | 32.863 | 7.35 | 0.29 | 26.004 | 0.035 | 1468. | 0.3 |
| 22 | 22.1 | 4.801 | 32.863 | 7.36 | 0.29 | 26.003 | 0.039 | 1468. | -0.4 |
| 24 | 23.9 | 4.801 | 32.863 | 7.35 | 0.29 | 26.003 | 0.043 | 1468. | -0.5 |
| 26 | 26.1 | 4.817 | 32.866 | 7.32 | 0.28 | 26.004 | 0.047 | 1468. | -0.6 |
| 28 | 28.0 | 4.832 | 32.867 | 7.31 | 0.28 | 26.003 | 0.051 | 1468. | -0.6 |
| 30 | 30.0 | 4.824 | 32.864 | 7.31 | 0.28 | 26.002 | 0.055 | 1468. | -0.6 |
| 32 | 31.9 | 4.825 | 32.865 | 7.32 | 0.28 | 26.002 | 0.059 | 1468. | -0.6 |
| 34 | 34.1 | 4.825 | 32.864 | 7.32 | 0.28 | 26.002 | 0.063 | 1468. | -0.5 |
| 36 | 36.1 | 4.832 | 32.866 | 7.31 | 0.28 | 26.002 | 0.067 | 1468. | -0.4 |
| 38 | 38.2 | 4.832 | 32.866 | 7.28 | 0.28 | 26.002 | 0.071 | 1468. | -0.2 |
| 40 | 40.0 | 4.833 | 32.866 | 7.29 | 0.28 | 26.002 | 0.075 | 1468. | -0.3 |
| 41 | 41.2 | 4.832 | 32.866 | 7.27 | 0.28 | 26.002 | 0.077 | 1468. | -0.4 |
| 42 | 42.1 | 4.831 | 32.865 | 7.26 | 0.28 | 26.002 | 0.079 | 1468. | -0.7 |
| 43 | 43.0 | 4.827 | 32.864 | 7.29 | 0.28 | 26.001 | 0.081 | 1468. | -0.7 |
| 44 | 43.9 | 4.827 | 32.864 | 7.32 | 0.28 | 26.002 | 0.082 | 1468. | -0.6 |
| 45 | 45.1 | 4.826 | 32.864 | 7.34 | 0.29 | 26.001 | 0.085 | 1468. | -0.5 |
| 46 | 46.0 | 4.821 | 32.862 | 7.33 | 0.30 | 26.000 | 0.087 | 1468. | -0.4 |
| 47 | 47.0 | 4.822 | 32.863 | 7.32 | 0.29 | 26.001 | 0.089 | 1468. | 0.2 |
| 48 | 47.9 | 4.818 | 32.863 | 7.32 | 0.28 | 26.001 | 0.090 | 1468. | 0.2 |
| 49 | 49.0 | 4.819 | 32.863 | 7.33 | 0.28 | 26.001 | 0.093 | 1468. | 0.4 |
| 50 | 49.9 | 4.822 | 32.863 | 7.32 | 0.28 | 26.001 | 0.095 | 1468. | 1.0 |
| 51 | 51.0 | 4.827 | 32.865 | 7.31 | 0.28 | 26.002 | 0.097 | 1468. | 0.9 |
| 52 | 52.1 | 4.824 | 32.863 | 7.32 | 0.28 | 26.001 | 0.099 | 1468. | 1.1 |
| 53 | 53.0 | 4.833 | 32.865 | 7.32 | 0.28 | 26.001 | 0.101 | 1468. | 1.4 |
| 54 | 54.0 | 4.848 | 32.872 | 7.33 | 0.28 | 26.005 | 0.103 | 1468. | 1.4 |
| 55 | 55.1 | 4.841 | 32.868 | 7.30 | 0.28 | 26.003 | 0.105 | 1468. | 1.4 |
| 56 | 56.1 | 4.843 | 32.870 | 7.30 | 0.28 | 26.004 | 0.107 | 1468. | 1.4 |
| 57 | 57.0 | 4.859 | 32.875 | 7.29 | 0.27 | 26.006 | 0.109 | 1468. | 1.4 |
| 58 | 58.0 | 4.866 | 32.875 | 7.29 | 0.28 | 26.005 | 0.111 | 1468. | 1.4 |
| 58 | 58.5 | 4.870 | 32.875 | 7.29 | 0.29 | 26.006 | 0.112 | 1468. | 1.4 |

| SHIP OC | CRUISE 181 | STATION 4 | DATE 05 FEB 1987 | | EST 1727 | LATITUDE 41°31.8'N | LONGITUDE 69°17.6'W | DEPTH 125 | | | |
|---------|------------|-----------|------------------|----------|---------------------|-------------------------|---|-----------|-------|--|--|
| DEPTH m | PRESS dbar | TEMP °C | SALIN psu | OXY ml/l | ATN m ⁻¹ | SIGT gm/cm ³ | DYHT A 10m ² /s ² | S SPD m/s | N cph | | |
| 1 | 0.7 | 5.266 | 32.995 | 7.16 | 0.32 | 26.056 | 0.000 | 1469. | -0.5 | | |
| 2 | 1.9 | 5.272 | 32.996 | 7.16 | 0.32 | 26.056 | 0.002 | 1469. | -0.5 | | |
| 4 | 4.0 | 5.277 | 32.996 | 7.17 | 0.33 | 26.056 | 0.007 | 1469. | -0.5 | | |
| 6 | 6.2 | 5.276 | 32.996 | 7.15 | 0.33 | 26.055 | 0.011 | 1469. | -0.5 | | |
| 8 | 7.9 | 5.280 | 32.996 | 7.14 | 0.31 | 26.055 | 0.014 | 1469. | -0.5 | | |
| 10 | 9.9 | 5.291 | 32.997 | 7.14 | 0.31 | 26.054 | 0.018 | 1470. | -0.4 | | |
| 12 | 12.2 | 5.299 | 32.998 | 7.13 | 0.32 | 26.055 | 0.022 | 1470. | -0.3 | | |
| 14 | 14.1 | 5.312 | 33.001 | 7.15 | 0.31 | 26.055 | 0.026 | 1470. | -0.2 | | |
| 16 | 16.2 | 5.318 | 33.001 | 7.14 | 0.32 | 26.055 | 0.030 | 1470. | 0.1 | | |
| 18 | 17.7 | 5.315 | 33.001 | 7.15 | 0.33 | 26.055 | 0.033 | 1470. | -0.2 | | |
| 20 | 20.0 | 5.316 | 33.001 | 7.16 | 0.33 | 26.055 | 0.038 | 1470. | -0.2 | | |
| 22 | 22.0 | 5.313 | 33.000 | 7.17 | 0.33 | 26.055 | 0.042 | 1470. | -0.2 | | |
| 24 | 23.9 | 5.314 | 33.000 | 7.16 | 0.35 | 26.055 | 0.045 | 1470. | 0.3 | | |
| 26 | 26.2 | 5.318 | 33.000 | 7.16 | 0.33 | 26.054 | 0.050 | 1470. | 0.4 | | |
| 28 | 27.8 | 5.320 | 33.002 | 7.16 | 0.33 | 26.055 | 0.053 | 1470. | 0.4 | | |
| 30 | 30.0 | 5.322 | 33.002 | 7.16 | 0.33 | 26.055 | 0.057 | 1470. | 0.4 | | |
| 32 | 32.0 | 5.323 | 33.002 | 7.15 | 0.33 | 26.055 | 0.061 | 1470. | 0.4 | | |
| 34 | 33.9 | 5.322 | 33.002 | 7.15 | 0.32 | 26.055 | 0.065 | 1470. | 0.3 | | |
| 36 | 35.9 | 5.322 | 33.002 | 7.14 | 0.33 | 26.055 | 0.069 | 1470. | -0.2 | | |
| 38 | 38.3 | 5.321 | 33.002 | 7.12 | 0.32 | 26.055 | 0.073 | 1470. | -0.3 | | |
| 39 | 39.7 | 5.320 | 33.001 | 7.09 | 0.32 | 26.055 | 0.076 | 1470. | -0.4 | | |
| 42 | 42.2 | 5.318 | 33.001 | 7.10 | 0.31 | 26.055 | 0.081 | 1470. | -0.4 | | |
| 44 | 43.9 | 5.315 | 33.000 | 7.13 | 0.31 | 26.054 | 0.084 | 1470. | -0.4 | | |
| 46 | 46.0 | 5.312 | 33.000 | 7.14 | 0.31 | 26.055 | 0.088 | 1470. | -0.3 | | |
| 47 | 47.9 | 5.314 | 33.000 | 7.14 | 0.31 | 26.055 | 0.092 | 1470. | -0.4 | | |
| 49 | 49.8 | 5.308 | 32.999 | 7.14 | 0.32 | 26.054 | 0.096 | 1470. | -0.4 | | |
| 52 | 52.4 | 5.308 | 32.999 | 7.14 | 0.32 | 26.054 | 0.101 | 1470. | -0.2 | | |
| 54 | 54.0 | 5.309 | 32.999 | 7.15 | 0.32 | 26.054 | 0.104 | 1470. | -0.3 | | |
| 55 | 55.9 | 5.302 | 32.997 | 7.15 | 0.32 | 26.054 | 0.108 | 1470. | 0.2 | | |
| 58 | 58.3 | 5.304 | 32.998 | 7.16 | 0.32 | 26.054 | 0.112 | 1470. | 0.5 | | |
| 59 | 59.7 | 5.307 | 32.999 | 7.15 | 0.33 | 26.054 | 0.115 | 1470. | 0.6 | | |
| 62 | 62.1 | 5.314 | 32.999 | 7.16 | 0.32 | 26.054 | 0.120 | 1470. | 0.7 | | |
| 63 | 63.7 | 5.319 | 33.002 | 7.15 | 0.31 | 26.055 | 0.123 | 1471. | 0.6 | | |
| 65 | 65.8 | 5.324 | 33.003 | 7.14 | 0.31 | 26.056 | 0.127 | 1471. | 0.8 | | |
| 68 | 68.2 | 5.333 | 33.005 | 7.14 | 0.31 | 26.056 | 0.132 | 1471. | 0.8 | | |
| 69 | 69.9 | 5.322 | 33.004 | 7.14 | 0.31 | 26.057 | 0.135 | 1471. | 0.8 | | |
| 72 | 72.1 | 5.345 | 33.004 | 7.14 | 0.30 | 26.054 | 0.139 | 1471. | 0.7 | | |
| 73 | 73.8 | 5.363 | 33.012 | 7.14 | 0.31 | 26.058 | 0.143 | 1471. | 0.8 | | |
| 75 | 76.0 | 5.352 | 33.009 | 7.17 | 0.30 | 26.057 | 0.147 | 1471. | 0.8 | | |
| 77 | 77.9 | 5.346 | 33.009 | 7.17 | 0.31 | 26.057 | 0.150 | 1471. | 0.9 | | |
| 79 | 80.1 | 5.352 | 33.009 | 7.17 | 0.31 | 26.057 | 0.155 | 1471. | 0.9 | | |
| 81 | 82.0 | 5.400 | 33.019 | 7.14 | 0.29 | 26.059 | 0.158 | 1471. | 0.7 | | |
| 83 | 84.0 | 5.404 | 33.019 | 7.11 | 0.31 | 26.059 | 0.162 | 1471. | 0.8 | | |
| 85 | 85.9 | 5.415 | 33.021 | 7.06 | 0.29 | 26.059 | 0.166 | 1471. | 0.7 | | |
| 87 | 88.0 | 5.428 | 33.023 | 7.03 | 0.28 | 26.060 | 0.170 | 1471. | 0.6 | | |
| 90 | 90.6 | 5.432 | 33.024 | 7.02 | 0.28 | 26.060 | 0.175 | 1471. | 0.5 | | |
| 91 | 92.0 | 5.431 | 33.024 | 7.03 | 0.28 | 26.060 | 0.178 | 1471. | 0.5 | | |
| 93 | 93.9 | 5.430 | 33.024 | 7.03 | 0.29 | 26.060 | 0.182 | 1471. | 0.5 | | |
| 95 | 95.9 | 5.429 | 33.024 | 7.07 | 0.29 | 26.060 | 0.186 | 1472. | 0.5 | | |
| 97 | 98.0 | 5.440 | 33.026 | 7.04 | 0.29 | 26.061 | 0.190 | 1472. | 0.6 | | |

| SHIP OC | CRUISE 181 | STATION 4 | DATE 05 FEB 1987 | EST 1727 | LATITUDE 41°31.8'N | LONGITUDE 69°17.6'W | DEPTH 125 | | |
|------------|---------------|--------------|---------------------|-------------|------------------------|----------------------------|--|--------------|----------|
| DEPTH m | PRESS dbar | TEMP °C | SALIN psu | OXY ml/l | ATN m ⁻¹ | SIGT gm/cm ³ | DYHT A 10m ² /s ² | S SPD m/s | N cph |
| 99 | 99.8 | 5.442 | 33.026 | 7.04 | 0.29 | 26.060 | 0.193 | 1472. | 0.6 |
| 101 | 101.9 | 5.447 | 33.028 | 7.07 | 0.30 | 26.061 | 0.197 | 1472. | 0.7 |
| 103 | 104.1 | 5.448 | 33.028 | 7.07 | 0.29 | 26.061 | 0.202 | 1472. | 0.7 |
| 105 | 106.0 | 5.456 | 33.030 | 7.08 | 0.29 | 26.062 | 0.205 | 1472. | 0.6 |
| 107 | 108.1 | 5.459 | 33.031 | 7.06 | 0.28 | 26.062 | 0.209 | 1472. | 0.6 |
| 109 | 109.9 | 5.457 | 33.031 | 7.03 | 0.28 | 26.062 | 0.213 | 1472. | 0.4 |
| 110 | 111.2 | 5.456 | 33.030 | 7.04 | 0.28 | 26.062 | 0.215 | 1472. | -0.3 |
| 111 | 111.9 | 5.456 | 33.030 | 7.06 | 0.29 | 26.062 | 0.217 | 1472. | -0.6 |
| 112 | 113.0 | 5.454 | 33.029 | 7.09 | 0.29 | 26.061 | 0.219 | 1472. | -0.7 |
| 113 | 114.0 | 5.453 | 33.029 | 7.09 | 0.28 | 26.061 | 0.221 | 1472. | -0.7 |
| 114 | 115.0 | 5.452 | 33.028 | 7.08 | 0.29 | 26.061 | 0.223 | 1472. | -0.6 |
| 115 | 116.0 | 5.454 | 33.029 | 7.07 | 0.30 | 26.061 | 0.225 | 1472. | -0.4 |
| 116 | 117.0 | 5.453 | 33.029 | 7.05 | 0.29 | 26.061 | 0.227 | 1472. | -0.2 |
| 118 | 119.4 | 5.455 | 33.029 | 7.02 | 0.29 | 26.061 | 0.231 | 1472. | -0.3 |
| 119 | 119.9 | 5.455 | 33.029 | 7.03 | 0.29 | 26.061 | 0.232 | 1472. | -0.3 |
| 120 | 121.0 | 5.456 | 33.029 | 7.03 | 0.32 | 26.061 | 0.235 | 1472. | -0.3 |
| 121 | 122.0 | 5.456 | 33.029 | 7.00 | 0.33 | 26.061 | 0.236 | 1472. | -0.3 |
| 122 | 122.9 | 5.455 | 33.028 | 7.01 | 0.33 | 26.060 | 0.238 | 1472. | -0.3 |

| SHIP OC | CRUISE 181 | STATION 5 | DATE 05 FEB 1987 | EST 1901 | LATITUDE 41°33.9'N | LONGITUDE 69°05.2'W | DEPTH 164 | | |
|------------|---------------|--------------|---------------------|-------------|------------------------|----------------------------|--|--------------|----------|
| DEPTH m | PRESS dbar | TEMP °C | SALIN psu | OXY ml/l | ATN m ⁻¹ | SIGT gm/cm ³ | DYHT A 10m ² /s ² | S SPD m/s | N cph |
| 3 | 2.7 | 5.536 | 33.035 | 7.02 | 0.26 | 26.056 | 0.000 | 1470. | -0.7 |
| 4 | 4.0 | 5.530 | 33.035 | 7.03 | 0.26 | 26.057 | 0.003 | 1470. | -0.7 |
| 6 | 6.2 | 5.530 | 33.035 | 7.02 | 0.26 | 26.057 | 0.007 | 1470. | -0.7 |
| 8 | 7.9 | 5.529 | 33.034 | 7.03 | 0.25 | 26.057 | 0.010 | 1470. | -0.7 |
| 10 | 10.0 | 5.531 | 33.035 | 7.03 | 0.26 | 26.057 | 0.014 | 1471. | -0.7 |
| 12 | 11.9 | 5.534 | 33.034 | 7.02 | 0.26 | 26.056 | 0.018 | 1471. | -0.7 |
| 14 | 13.9 | 5.538 | 33.034 | 7.04 | 0.26 | 26.055 | 0.022 | 1471. | -0.6 |
| 16 | 16.3 | 5.550 | 33.035 | 7.03 | 0.26 | 26.054 | 0.027 | 1471. | -0.5 |
| 18 | 17.8 | 5.546 | 33.035 | 7.02 | 0.26 | 26.055 | 0.030 | 1471. | -0.4 |
| 20 | 19.9 | 5.540 | 33.034 | 7.02 | 0.26 | 26.055 | 0.034 | 1471. | 0.2 |
| 22 | 22.2 | 5.541 | 33.035 | 7.02 | 0.26 | 26.056 | 0.038 | 1471. | 0.4 |
| 24 | 24.0 | 5.543 | 33.035 | 7.03 | 0.26 | 26.055 | 0.042 | 1471. | 0.3 |
| 26 | 26.2 | 5.543 | 33.035 | 7.02 | 0.26 | 26.055 | 0.046 | 1471. | -0.3 |
| 28 | 28.1 | 5.547 | 33.035 | 7.02 | 0.26 | 26.055 | 0.050 | 1471. | -0.5 |
| 30 | 29.8 | 5.566 | 33.038 | 7.01 | 0.26 | 26.055 | 0.053 | 1471. | -0.6 |
| 31 | 31.7 | 5.566 | 33.038 | 7.00 | 0.26 | 26.055 | 0.057 | 1471. | -0.6 |
| 34 | 34.2 | 5.585 | 33.040 | 7.00 | 0.25 | 26.054 | 0.061 | 1471. | -0.6 |
| 36 | 36.0 | 5.602 | 33.042 | 7.00 | 0.25 | 26.054 | 0.065 | 1471. | -0.6 |
| 38 | 38.0 | 5.617 | 33.044 | 7.01 | 0.26 | 26.054 | 0.069 | 1471. | -0.5 |
| 40 | 40.0 | 5.632 | 33.047 | 7.00 | 0.26 | 26.054 | 0.073 | 1471. | -0.4 |
| 41 | 41.8 | 5.635 | 33.046 | 7.00 | 0.26 | 26.054 | 0.076 | 1471. | 0.2 |
| 44 | 44.2 | 5.629 | 33.046 | 6.99 | 0.25 | 26.054 | 0.081 | 1472. | 0.2 |
| 46 | 46.0 | 5.631 | 33.046 | 6.98 | 0.25 | 26.054 | 0.084 | 1472. | -0.2 |
| 48 | 48.0 | 5.627 | 33.046 | 6.98 | 0.25 | 26.054 | 0.088 | 1472. | -0.2 |
| 50 | 50.1 | 5.619 | 33.045 | 6.99 | 0.25 | 26.054 | 0.092 | 1472. | -0.2 |
| 51 | 51.9 | 5.637 | 33.046 | 6.99 | 0.25 | 26.053 | 0.096 | 1472. | -0.3 |
| 53 | 53.9 | 5.671 | 33.052 | 6.95 | 0.25 | 26.053 | 0.100 | 1472. | -0.4 |
| 56 | 55.9 | 5.654 | 33.049 | 6.97 | 0.25 | 26.054 | 0.104 | 1472. | -0.4 |
| 57 | 57.7 | 5.643 | 33.048 | 6.97 | 0.26 | 26.054 | 0.107 | 1472. | -0.4 |
| 60 | 60.0 | 5.625 | 33.045 | 6.97 | 0.26 | 26.053 | 0.112 | 1472. | -0.3 |
| 61 | 62.0 | 5.603 | 33.041 | 6.97 | 0.26 | 26.053 | 0.116 | 1472. | -0.3 |
| 63 | 63.8 | 5.603 | 33.041 | 6.97 | 0.26 | 26.053 | 0.119 | 1472. | -0.3 |
| 66 | 66.2 | 5.607 | 33.041 | 6.95 | 0.26 | 26.053 | 0.124 | 1472. | -0.2 |
| 67 | 67.9 | 5.604 | 33.041 | 6.96 | 0.26 | 26.053 | 0.127 | 1472. | -0.2 |
| 70 | 70.1 | 5.604 | 33.041 | 6.95 | 0.26 | 26.053 | 0.131 | 1472. | -0.2 |
| 71 | 72.0 | 5.607 | 33.041 | 6.96 | 0.26 | 26.053 | 0.135 | 1472. | 0.1 |
| 73 | 73.8 | 5.609 | 33.042 | 6.96 | 0.26 | 26.053 | 0.139 | 1472. | -0.1 |
| 75 | 75.8 | 5.614 | 33.042 | 6.97 | 0.26 | 26.052 | 0.143 | 1472. | -0.3 |
| 77 | 78.0 | 5.607 | 33.041 | 6.97 | 0.26 | 26.053 | 0.147 | 1472. | -0.2 |
| 80 | 80.3 | 5.604 | 33.041 | 6.97 | 0.26 | 26.053 | 0.151 | 1472. | 0.0 |
| 81 | 82.0 | 5.598 | 33.040 | 6.98 | 0.26 | 26.053 | 0.155 | 1472. | 0.0 |
| 84 | 84.2 | 5.601 | 33.040 | 6.99 | 0.26 | 26.052 | 0.159 | 1472. | 0.1 |
| 85 | 86.2 | 5.598 | 33.040 | 6.98 | 0.26 | 26.053 | 0.163 | 1472. | -0.1 |
| 87 | 87.7 | 5.599 | 33.040 | 6.98 | 0.26 | 26.053 | 0.166 | 1472. | 0.1 |
| 89 | 90.2 | 5.599 | 33.040 | 6.98 | 0.26 | 26.052 | 0.171 | 1472. | -0.2 |
| 91 | 92.0 | 5.604 | 33.040 | 6.99 | 0.26 | 26.052 | 0.174 | 1472. | -0.3 |
| 93 | 93.7 | 5.605 | 33.041 | 6.98 | 0.26 | 26.053 | 0.178 | 1472. | -0.3 |
| 95 | 96.2 | 5.604 | 33.041 | 6.98 | 0.26 | 26.053 | 0.182 | 1472. | 0.2 |
| 97 | 97.9 | 5.614 | 33.041 | 6.98 | 0.26 | 26.052 | 0.186 | 1472. | 0.3 |
| 99 | 99.9 | 5.619 | 33.042 | 6.98 | 0.26 | 26.052 | 0.190 | 1472. | 0.4 |

| SHIP OC | CRUISE 181 | STATION 5 | DATE 05 FEB 1987 | EST 1901 | LATITUDE 41°33.9'N | LONGITUDE 69°05.2'W | DEPTH 164 | | | | | | |
|------------|---------------|--------------|---------------------|-------------|------------------------|----------------------------|--|--------------|----------|--|--|--|--|
| DEPTH m | PRESS dbar | TEMP °C | SALIN psu | OXY ml/l | ATN m ⁻¹ | SIGT gm/cm ³ | DYHT A 10m ² /s ² | S SPD m/s | N cph | | | | |
| 101 | 102.0 | 5.614 | 33.042 | 6.98 | 0.26 | 26.052 | 0.194 | 1472. | 0.3 | | | | |
| 103 | 104.0 | 5.602 | 33.041 | 6.99 | 0.26 | 26.053 | 0.198 | 1472. | 0.4 | | | | |
| 105 | 106.3 | 5.596 | 33.040 | 6.98 | 0.26 | 26.053 | 0.202 | 1472. | 0.5 | | | | |
| 107 | 107.8 | 5.595 | 33.040 | 6.99 | 0.26 | 26.053 | 0.205 | 1472. | 0.3 | | | | |
| 109 | 109.8 | 5.597 | 33.040 | 7.00 | 0.26 | 26.053 | 0.209 | 1472. | 0.2 | | | | |
| 111 | 112.2 | 5.594 | 33.039 | 7.01 | 0.26 | 26.053 | 0.214 | 1472. | -0.2 | | | | |
| 116 | 116.7 | 5.599 | 33.041 | 7.02 | 0.26 | 26.053 | 0.223 | 1473. | -0.2 | | | | |
| 119 | 120.1 | 5.597 | 33.040 | 7.00 | 0.26 | 26.053 | 0.229 | 1473. | -0.2 | | | | |
| 121 | 122.1 | 5.594 | 33.039 | 7.00 | 0.26 | 26.053 | 0.233 | 1473. | -0.3 | | | | |
| 123 | 123.8 | 5.595 | 33.039 | 6.99 | 0.26 | 26.053 | 0.237 | 1473. | -0.4 | | | | |
| 125 | 126.2 | 5.592 | 33.038 | 6.99 | 0.25 | 26.052 | 0.241 | 1473. | -0.5 | | | | |
| 127 | 128.0 | 5.586 | 33.038 | 7.01 | 0.25 | 26.052 | 0.245 | 1473. | -0.4 | | | | |
| 129 | 129.9 | 5.589 | 33.037 | 7.01 | 0.26 | 26.052 | 0.249 | 1473. | -0.4 | | | | |
| 131 | 132.0 | 5.611 | 33.040 | 6.99 | 0.25 | 26.052 | 0.253 | 1473. | -0.3 | | | | |
| 133 | 133.9 | 5.603 | 33.039 | 6.99 | 0.25 | 26.052 | 0.256 | 1473. | -0.3 | | | | |
| 135 | 136.0 | 5.593 | 33.038 | 6.99 | 0.25 | 26.052 | 0.260 | 1473. | -0.3 | | | | |
| 137 | 137.9 | 5.590 | 33.038 | 7.02 | 0.26 | 26.052 | 0.264 | 1473. | -0.2 | | | | |
| 139 | 139.8 | 5.585 | 33.037 | 7.01 | 0.26 | 26.052 | 0.268 | 1473. | -0.1 | | | | |
| 141 | 142.2 | 5.588 | 33.036 | 7.01 | 0.26 | 26.051 | 0.273 | 1473. | -0.3 | | | | |
| 143 | 143.9 | 5.592 | 33.037 | 7.02 | 0.26 | 26.051 | 0.276 | 1473. | -0.5 | | | | |
| 145 | 145.9 | 5.591 | 33.037 | 7.01 | 0.26 | 26.051 | 0.280 | 1473. | -0.6 | | | | |
| 147 | 148.2 | 5.601 | 33.039 | 7.01 | 0.26 | 26.052 | 0.284 | 1473. | -0.5 | | | | |
| 148 | 149.2 | 5.619 | 33.041 | 7.02 | 0.26 | 26.051 | 0.286 | 1473. | -0.3 | | | | |
| 149 | 150.0 | 5.625 | 33.041 | 7.02 | 0.27 | 26.050 | 0.288 | 1473. | -0.4 | | | | |
| 150 | 151.0 | 5.633 | 33.042 | 7.01 | 0.26 | 26.050 | 0.290 | 1473. | -0.3 | | | | |
| 151 | 152.0 | 5.641 | 33.045 | 7.01 | 0.26 | 26.051 | 0.292 | 1473. | -0.4 | | | | |
| 152 | 153.1 | 5.652 | 33.047 | 7.01 | 0.26 | 26.052 | 0.294 | 1473. | -0.2 | | | | |
| 153 | 154.1 | 5.645 | 33.045 | 7.01 | 0.26 | 26.051 | 0.296 | 1473. | -0.2 | | | | |
| 154 | 154.8 | 5.644 | 33.045 | 6.99 | 0.26 | 26.051 | 0.297 | 1473. | -0.7 | | | | |
| 155 | 155.8 | 5.645 | 33.044 | 6.97 | 0.27 | 26.050 | 0.299 | 1473. | -0.7 | | | | |
| 156 | 157.1 | 5.654 | 33.045 | 7.00 | 0.26 | 26.050 | 0.302 | 1473. | -0.7 | | | | |
| 157 | 158.1 | 5.659 | 33.046 | 6.99 | 0.26 | 26.051 | 0.304 | 1473. | -0.7 | | | | |
| 157 | 158.7 | 5.701 | 33.051 | 6.98 | 0.26 | 26.049 | 0.305 | 1474. | -0.7 | | | | |

| SHIP OC | CRUISE 181 | STATION 6 | DATE 05 FEB 1987 | EST 2033 | LATITUDE 41°37.0'N | LONGITUDE 68°52.1'W | DEPTH 126 | | | | | | |
|------------|---------------|--------------|---------------------|-------------|------------------------|----------------------------|--|--------------|----------|--|--|--|--|
| DEPTH m | PRESS dbar | TEMP °C | SALIN psu | OXY ml/l | ATN m ⁻¹ | SIGT gm/cm ³ | DYHT A 10m ² /s ² | S SPD m/s | N cph | | | | |
| 2 | 2.3 | 6.167 | 33.113 | 6.82 | 0.15 | 26.041 | 0.000 | 1473. | -0.9 | | | | |
| 4 | 4.0 | 6.168 | 33.113 | 6.83 | 0.15 | 26.041 | 0.003 | 1473. | -0.9 | | | | |
| 6 | 6.0 | 6.168 | 33.113 | 6.82 | 0.16 | 26.041 | 0.007 | 1473. | -0.9 | | | | |
| 8 | 8.2 | 6.174 | 33.113 | 6.81 | 0.15 | 26.040 | 0.012 | 1473. | -0.9 | | | | |
| 10 | 9.6 | 6.183 | 33.113 | 6.82 | 0.16 | 26.039 | 0.014 | 1473. | -0.9 | | | | |
| 12 | 12.0 | 6.192 | 33.113 | 6.81 | 0.16 | 26.038 | 0.019 | 1473. | -0.9 | | | | |
| 14 | 14.1 | 6.194 | 33.113 | 6.81 | 0.16 | 26.037 | 0.023 | 1473. | -0.8 | | | | |
| 16 | 15.7 | 6.194 | 33.113 | 6.81 | 0.16 | 26.038 | 0.026 | 1473. | -0.5 | | | | |
| 18 | 17.9 | 6.193 | 33.113 | 6.80 | 0.16 | 26.038 | 0.031 | 1473. | -0.2 | | | | |
| 20 | 20.1 | 6.191 | 33.113 | 6.80 | 0.16 | 26.038 | 0.035 | 1473. | 0.3 | | | | |
| 22 | 21.9 | 6.190 | 33.113 | 6.81 | 0.15 | 26.038 | 0.039 | 1473. | 0.3 | | | | |
| 24 | 24.0 | 6.191 | 33.113 | 6.82 | 0.16 | 26.038 | 0.043 | 1474. | 0.1 | | | | |
| 26 | 26.1 | 6.191 | 33.113 | 6.81 | 0.16 | 26.038 | 0.047 | 1474. | -0.2 | | | | |
| 28 | 27.9 | 6.191 | 33.113 | 6.82 | 0.15 | 26.038 | 0.050 | 1474. | -0.2 | | | | |
| 30 | 30.0 | 6.192 | 33.112 | 6.83 | 0.15 | 26.037 | 0.054 | 1474. | -0.3 | | | | |
| 32 | 31.9 | 6.193 | 33.113 | 6.83 | 0.15 | 26.038 | 0.058 | 1474. | -0.3 | | | | |
| 34 | 34.4 | 6.194 | 33.113 | 6.84 | 0.15 | 26.038 | 0.063 | 1474. | -0.2 | | | | |
| 35 | 35.7 | 6.193 | 33.113 | 6.84 | 0.16 | 26.038 | 0.066 | 1474. | -0.1 | | | | |
| 38 | 38.1 | 6.194 | 33.113 | 6.83 | 0.16 | 26.037 | 0.070 | 1474. | 0.2 | | | | |
| 40 | 39.8 | 6.194 | 33.113 | 6.83 | 0.16 | 26.037 | 0.074 | 1474. | 0.2 | | | | |
| 42 | 42.1 | 6.193 | 33.113 | 6.83 | 0.15 | 26.037 | 0.078 | 1474. | 0.2 | | | | |
| 44 | 44.1 | 6.192 | 33.113 | 6.84 | 0.15 | 26.038 | 0.082 | 1474. | -0.2 | | | | |
| 45 | 45.6 | 6.193 | 33.113 | 6.84 | 0.15 | 26.038 | 0.085 | 1474. | -0.3 | | | | |
| 48 | 48.0 | 6.194 | 33.113 | 6.84 | 0.16 | 26.038 | 0.090 | 1474. | -0.4 | | | | |
| 50 | 50.0 | 6.195 | 33.113 | 6.83 | 0.15 | 26.037 | 0.094 | 1474. | -0.5 | | | | |
| 52 | 52.0 | 6.200 | 33.113 | 6.83 | 0.15 | 26.037 | 0.098 | 1474. | -0.5 | | | | |
| 53 | 53.8 | 6.200 | 33.113 | 6.83 | 0.15 | 26.037 | 0.101 | 1474. | -0.5 | | | | |
| 56 | 56.0 | 6.199 | 33.113 | 6.83 | 0.16 | 26.037 | 0.106 | 1474. | -0.4 | | | | |
| 57 | 57.9 | 6.200 | 33.113 | 6.83 | 0.16 | 26.037 | 0.109 | 1474. | -0.3 | | | | |
| 60 | 60.1 | 6.202 | 33.113 | 6.83 | 0.15 | 26.036 | 0.114 | 1474. | -0.1 | | | | |
| 61 | 61.9 | 6.201 | 33.113 | 6.84 | 0.16 | 26.037 | 0.117 | 1474. | -0.1 | | | | |
| 63 | 63.9 | 6.201 | 33.113 | 6.83 | 0.16 | 26.037 | 0.121 | 1474. | -0.2 | | | | |
| 66 | 66.1 | 6.201 | 33.113 | 6.83 | 0.16 | 26.037 | 0.125 | 1474. | 0.2 | | | | |
| 67 | 68.0 | 6.200 | 33.112 | 6.83 | 0.16 | 26.036 | 0.129 | 1474. | 0.2 | | | | |
| 69 | 69.9 | 6.200 | 33.112 | 6.83 | 0.16 | 26.036 | 0.133 | 1474. | 0.2 | | | | |
| 71 | 72.0 | 6.201 | 33.112 | 6.82 | 0.16 | 26.036 | 0.137 | 1474. | -0.1 | | | | |
| 74 | 74.3 | 6.200 | 33.113 | 6.82 | 0.15 | 26.037 | 0.142 | 1474. | 0.1 | | | | |
| 75 | 75.8 | 6.201 | 33.112 | 6.82 | 0.16 | 26.036 | 0.144 | 1474. | 0.2 | | | | |
| 77 | 78.0 | 6.201 | 33.113 | 6.81 | 0.16 | 26.037 | 0.149 | 1474. | 0.2 | | | | |
| 80 | 80.3 | 6.201 | 33.112 | 6.81 | 0.15 | 26.036 | 0.153 | 1474. | 0.2 | | | | |
| 81 | 81.8 | 6.201 | 33.113 | 6.81 | 0.15 | 26.037 | 0.156 | 1474. | 0.3 | | | | |
| 83 | 84.1 | 6.200 | 33.113 | 6.81 | 0.16 | 26.037 | 0.161 | 1475. | 0.3 | | | | |
| 85 | 86.0 | 6.200 | 33.112 | 6.80 | 0.15 | 26.036 | 0.165 | 1475. | 0.3 | | | | |
| 87 | 88.1 | 6.199 | 33.112 | 6.80 | 0.15 | 26.037 | 0.169 | 1475. | 0.3 | | | | |
| 89 | 90.0 | 6.199 | 33.113 | 6.82 | 0.15 | 26.037 | 0.173 | 1475. | 0.3 | | | | |
| 91 | 91.9 | 6.199 | 33.112 | 6.82 | 0.16 | 26.037 | 0.176 | 1475. | 0.3 | | | | |
| 93 | 94.1 | 6.200 | 33.112 | 6.82 | 0.15 | 26.036 | 0.181 | 1475. | 0.2 | | | | |
| 95 | 96.1 | 6.198 | 33.113 | 6.83 | 0.15 | 26.037 | 0.184 | 1475. | -0.1 | | | | |
| 97 | 97.9 | 6.197 | 33.112 | 6.85 | 0.15 | 26.037 | 0.188 | 1475. | -0.2 | | | | |
| 100 | 100.4 | 6.198 | 33.112 | 6.84 | 0.15 | 26.037 | 0.193 | 1475. | -0.1 | | | | |

| SHIP OC | CRUISE 181 | STATION 6 | DATE 05 FEB 1987 | | EST 2033 | LATITUDE 41°37.0'N | LONGITUDE 68°52.1'W | DEPTH 126 | | |
|------------|---------------|--------------|---------------------|-------------|------------------------|----------------------------|--|--------------|----------|--|
| DEPTH m | PRESS dbar | TEMP °C | SALIN psu | OXY ml/l | ATN m ⁻¹ | SIGT gm/cm ³ | DYHT A 10m ² /s ² | S SPD m/s | N cph | |
| 100 | 101.2 | 6.199 | 33.112 | 6.83 | 0.16 | 26.036 | 0.195 | 1475. | -0.2 | |
| 101 | 102.1 | 6.199 | 33.112 | 6.84 | 0.15 | 26.036 | 0.196 | 1475. | -0.3 | |
| 102 | 102.8 | 6.199 | 33.112 | 6.83 | 0.15 | 26.036 | 0.198 | 1475. | 0.0 | |
| 103 | 103.9 | 6.199 | 33.112 | 6.82 | 0.16 | 26.036 | 0.200 | 1475. | 0.3 | |
| 104 | 105.0 | 6.199 | 33.112 | 6.82 | 0.16 | 26.036 | 0.202 | 1475. | 0.5 | |
| 105 | 106.0 | 6.199 | 33.112 | 6.82 | 0.15 | 26.036 | 0.204 | 1475. | 0.4 | |
| 106 | 107.0 | 6.199 | 33.113 | 6.82 | 0.15 | 26.037 | 0.206 | 1475. | 0.4 | |
| 107 | 108.0 | 6.199 | 33.113 | 6.82 | 0.15 | 26.037 | 0.208 | 1475. | 0.4 | |
| 108 | 109.0 | 6.199 | 33.113 | 6.83 | 0.15 | 26.037 | 0.210 | 1475. | 0.4 | |
| 109 | 110.0 | 6.199 | 33.112 | 6.83 | 0.15 | 26.037 | 0.212 | 1475. | 0.3 | |
| 110 | 111.0 | 6.199 | 33.113 | 6.83 | 0.15 | 26.037 | 0.214 | 1475. | 0.2 | |
| 111 | 111.9 | 6.198 | 33.113 | 6.83 | 0.15 | 26.037 | 0.216 | 1475. | 0.1 | |
| 112 | 112.9 | 6.199 | 33.112 | 6.84 | 0.15 | 26.037 | 0.218 | 1475. | -0.4 | |
| 113 | 114.0 | 6.199 | 33.112 | 6.83 | 0.15 | 26.037 | 0.220 | 1475. | -0.5 | |
| 114 | 114.9 | 6.198 | 33.112 | 6.83 | 0.15 | 26.037 | 0.222 | 1475. | -0.5 | |
| 115 | 116.1 | 6.200 | 33.113 | 6.83 | 0.15 | 26.037 | 0.224 | 1475. | -0.5 | |
| 116 | 116.9 | 6.206 | 33.113 | 6.83 | 0.15 | 26.036 | 0.226 | 1475. | -0.5 | |
| 117 | 117.8 | 6.208 | 33.113 | 6.83 | 0.15 | 26.036 | 0.227 | 1475. | -0.5 | |

| SHIP OC | CRUISE 181 | STATION 7 | DATE 05 FEB 1987 | | EST 2202 | LATITUDE 41°39.1'N | LONGITUDE 68°39.0'W | DEPTH 150 | | |
|------------|---------------|--------------|---------------------|-------------|------------------------|----------------------------|--|--------------|----------|--|
| DEPTH m | PRESS dbar | TEMP °C | SALIN psu | OXY ml/l | ATN m ⁻¹ | SIGT gm/cm ³ | DYHT A 10m ² /s ² | S SPD m/s | N cph | |
| 1 | 0.9 | 6.269 | 33.144 | 6.69 | 0.17 | 26.053 | 0.000 | 1473. | -0.2 | |
| 2 | 1.6 | 6.268 | 33.144 | 6.68 | 0.18 | 26.053 | 0.001 | 1473. | -0.2 | |
| 4 | 4.1 | 6.269 | 33.143 | 6.69 | 0.17 | 26.052 | 0.006 | 1474. | -0.2 | |
| 6 | 6.3 | 6.269 | 33.144 | 6.67 | 0.17 | 26.052 | 0.010 | 1474. | -0.2 | |
| 8 | 7.9 | 6.268 | 33.143 | 6.67 | 0.17 | 26.052 | 0.014 | 1474. | -0.2 | |
| 10 | 10.1 | 6.268 | 33.143 | 6.67 | 0.17 | 26.052 | 0.018 | 1474. | 0.1 | |
| 12 | 11.7 | 6.268 | 33.143 | 6.67 | 0.17 | 26.052 | 0.021 | 1474. | 0.3 | |
| 14 | 14.2 | 6.268 | 33.143 | 6.67 | 0.17 | 26.052 | 0.026 | 1474. | 0.3 | |
| 16 | 15.9 | 6.268 | 33.144 | 6.69 | 0.17 | 26.053 | 0.029 | 1474. | 0.2 | |
| 18 | 18.0 | 6.268 | 33.143 | 6.69 | 0.17 | 26.052 | 0.033 | 1474. | 0.1 | |
| 20 | 20.1 | 6.267 | 33.144 | 6.69 | 0.17 | 26.053 | 0.038 | 1474. | -0.2 | |
| 22 | 21.9 | 6.267 | 33.144 | 6.69 | 0.17 | 26.053 | 0.041 | 1474. | -0.3 | |
| 24 | 24.1 | 6.272 | 33.143 | 6.69 | 0.17 | 26.052 | 0.045 | 1474. | -0.4 | |
| 26 | 25.7 | 6.271 | 33.143 | 6.69 | 0.17 | 26.052 | 0.048 | 1474. | -0.4 | |
| 28 | 28.2 | 6.272 | 33.143 | 6.70 | 0.17 | 26.052 | 0.053 | 1474. | -0.3 | |
| 29 | 29.7 | 6.272 | 33.143 | 6.70 | 0.17 | 26.052 | 0.056 | 1474. | -0.2 | |
| 32 | 32.1 | 6.272 | 33.144 | 6.70 | 0.17 | 26.052 | 0.061 | 1474. | 0.2 | |
| 34 | 34.0 | 6.273 | 33.143 | 6.71 | 0.17 | 26.052 | 0.065 | 1474. | 0.2 | |
| 36 | 36.0 | 6.272 | 33.144 | 6.72 | 0.17 | 26.052 | 0.068 | 1474. | 0.3 | |
| 38 | 38.1 | 6.275 | 33.144 | 6.72 | 0.17 | 26.052 | 0.073 | 1474. | 0.3 | |
| 40 | 39.8 | 6.274 | 33.144 | 6.71 | 0.17 | 26.052 | 0.076 | 1474. | 0.2 | |
| 42 | 42.1 | 6.275 | 33.144 | 6.69 | 0.17 | 26.052 | 0.080 | 1474. | 0.2 | |
| 43 | 43.8 | 6.276 | 33.144 | 6.69 | 0.17 | 26.052 | 0.084 | 1474. | 0.1 | |
| 46 | 46.1 | 6.276 | 33.144 | 6.69 | 0.17 | 26.052 | 0.088 | 1474. | 0.2 | |
| 47 | 47.8 | 6.276 | 33.144 | 6.72 | 0.17 | 26.052 | 0.091 | 1474. | 0.1 | |
| 50 | 50.2 | 6.277 | 33.144 | 6.74 | 0.17 | 26.052 | 0.096 | 1474. | 0.2 | |
| 52 | 51.9 | 6.276 | 33.144 | 6.72 | 0.17 | 26.052 | 0.100 | 1474. | 0.3 | |
| 54 | 53.9 | 6.276 | 33.144 | 6.72 | 0.17 | 26.052 | 0.103 | 1474. | 0.4 | |
| 56 | 56.1 | 6.273 | 33.143 | 6.70 | 0.17 | 26.052 | 0.108 | 1474. | 0.4 | |
| 58 | 58.1 | 6.270 | 33.143 | 6.71 | 0.17 | 26.052 | 0.112 | 1474. | 0.3 | |
| 59 | 59.9 | 6.272 | 33.144 | 6.71 | 0.17 | 26.053 | 0.115 | 1474. | 0.3 | |
| 62 | 62.2 | 6.274 | 33.144 | 6.72 | 0.17 | 26.052 | 0.120 | 1474. | -0.2 | |
| 63 | 63.8 | 6.275 | 33.144 | 6.72 | 0.17 | 26.052 | 0.123 | 1475. | -0.3 | |
| 65 | 65.9 | 6.278 | 33.145 | 6.72 | 0.17 | 26.052 | 0.127 | 1475. | -0.4 | |
| 68 | 68.1 | 6.278 | 33.144 | 6.73 | 0.17 | 26.052 | 0.131 | 1475. | -0.4 | |
| 69 | 69.9 | 6.279 | 33.144 | 6.73 | 0.17 | 26.051 | 0.135 | 1475. | -0.2 | |
| 71 | 72.0 | 6.276 | 33.144 | 6.74 | 0.17 | 26.052 | 0.139 | 1475. | -0.1 | |
| 73 | 74.1 | 6.272 | 33.143 | 6.74 | 0.17 | 26.052 | 0.143 | 1475. | 0.2 | |
| 76 | 76.1 | 6.273 | 33.144 | 6.74 | 0.17 | 26.052 | 0.147 | 1475. | 0.2 | |
| 77 | 77.8 | 6.274 | 33.144 | 6.74 | 0.17 | 26.052 | 0.150 | 1475. | 0.3 | |
| 80 | 80.3 | 6.275 | 33.144 | 6.75 | 0.17 | 26.052 | 0.155 | 1475. | 0.2 | |
| 81 | 81.9 | 6.275 | 33.144 | 6.74 | 0.17 | 26.052 | 0.158 | 1475. | 0.1 | |
| 83 | 84.1 | 6.276 | 33.143 | 6.74 | 0.17 | 26.051 | 0.162 | 1475. | -0.2 | |
| 85 | 85.9 | 6.274 | 33.144 | 6.74 | 0.17 | 26.052 | 0.166 | 1475. | 0.2 | |
| 87 | 87.9 | 6.274 | 33.143 | 6.75 | 0.17 | 26.052 | 0.170 | 1475. | 0.2 | |
| 89 | 90.0 | 6.275 | 33.144 | 6.74 | 0.17 | 26.052 | 0.174 | 1475. | 0.3 | |
| 91 | 91.7 | 6.275 | 33.144 | 6.75 | 0.17 | 26.052 | 0.177 | 1475. | 0.3 | |
| 94 | 94.3 | 6.273 | 33.144 | 6.77 | 0.17 | 26.052 | 0.182 | 1475. | 0.3 | |
| 95 | 95.9 | 6.273 | 33.143 | 6.80 | 0.17 | 26.052 | 0.186 | 1475. | 0.5 | |
| 97 | 98.2 | 6.274 | 33.144 | 6.79 | 0.17 | 26.052 | 0.190 | 1475. | 0.7 | |

| SHIP OC | CRUISE 181 | STATION 7 | DATE 05 FEB 1987 | | | EST 2202 | LATITUDE 41°39.1'N | LONGITUDE 66°39.0'W | DEPTH 150 | |
|------------|---------------|--------------|---------------------|-------------|------------------------|----------------------------|--|------------------------|--------------|--|
| DEPTH m | PRESS dbar | TEMP °C | SALIN psu | OXY ml/l | ATN m ⁻¹ | SIGT gm/cm ³ | DYHT A 10m ² /s ² | S SPD m/s | N cph | |
| 99 | 99.9 | 6.277 | 33.144 | 6.76 | 0.17 | 26.052 | 0.193 | 1475. | 0.8 | |
| 101 | 102.1 | 6.281 | 33.145 | 6.76 | 0.17 | 26.052 | 0.198 | 1475. | 0.9 | |
| 103 | 103.8 | 6.282 | 33.147 | 6.75 | 0.17 | 26.054 | 0.201 | 1475. | 0.9 | |
| 105 | 106.0 | 6.281 | 33.148 | 6.76 | 0.17 | 26.055 | 0.205 | 1475. | 0.8 | |
| 107 | 108.0 | 6.281 | 33.149 | 6.78 | 0.17 | 26.055 | 0.209 | 1475. | 0.7 | |
| 109 | 109.8 | 6.281 | 33.148 | 6.78 | 0.17 | 26.054 | 0.213 | 1475. | 0.6 | |
| 111 | 112.1 | 6.281 | 33.148 | 6.78 | 0.17 | 26.054 | 0.217 | 1475. | 0.3 | |
| 113 | 113.7 | 6.280 | 33.148 | 6.78 | 0.17 | 26.055 | 0.221 | 1475. | 0.1 | |
| 115 | 116.0 | 6.281 | 33.148 | 6.77 | 0.17 | 26.055 | 0.225 | 1475. | 0.1 | |
| 117 | 118.0 | 6.281 | 33.148 | 6.77 | 0.17 | 26.054 | 0.229 | 1475. | 0.2 | |
| 119 | 119.9 | 6.281 | 33.148 | 6.77 | 0.17 | 26.054 | 0.233 | 1475. | 0.2 | |
| 121 | 122.1 | 6.280 | 33.148 | 6.76 | 0.17 | 26.055 | 0.237 | 1476. | 0.3 | |
| 123 | 123.8 | 6.281 | 33.148 | 6.78 | 0.17 | 26.054 | 0.240 | 1476. | 0.4 | |
| 125 | 126.2 | 6.282 | 33.148 | 6.78 | 0.17 | 26.054 | 0.245 | 1476. | 0.5 | |
| 127 | 127.9 | 6.281 | 33.148 | 6.79 | 0.17 | 26.054 | 0.248 | 1476. | 0.5 | |
| 129 | 130.1 | 6.279 | 33.149 | 6.79 | 0.17 | 26.055 | 0.253 | 1476. | 0.5 | |
| 131 | 132.0 | 6.280 | 33.149 | 6.77 | 0.17 | 26.055 | 0.256 | 1476. | 0.5 | |
| 133 | 134.1 | 6.279 | 33.149 | 6.78 | 0.17 | 26.055 | 0.260 | 1476. | 0.3 | |
| 134 | 135.2 | 6.279 | 33.149 | 6.78 | 0.17 | 26.055 | 0.263 | 1476. | -0.3 | |
| 135 | 136.0 | 6.280 | 33.149 | 6.78 | 0.17 | 26.055 | 0.264 | 1476. | -0.6 | |
| 136 | 136.8 | 6.281 | 33.148 | 6.77 | 0.17 | 26.055 | 0.266 | 1476. | -0.8 | |
| 137 | 138.2 | 6.283 | 33.148 | 6.77 | 0.17 | 26.054 | 0.268 | 1476. | -0.9 | |
| 138 | 139.1 | 6.282 | 33.148 | 6.77 | 0.17 | 26.054 | 0.270 | 1476. | -0.9 | |
| 139 | 140.0 | 6.284 | 33.148 | 6.76 | 0.17 | 26.054 | 0.272 | 1476. | -0.9 | |
| 140 | 140.9 | 6.284 | 33.148 | 6.76 | 0.17 | 26.054 | 0.274 | 1476. | -0.9 | |
| 141 | 142.1 | 6.285 | 33.148 | 6.77 | 0.17 | 26.053 | 0.276 | 1476. | -0.9 | |
| 142 | 143.0 | 6.287 | 33.147 | 6.79 | 0.17 | 26.053 | 0.278 | 1476. | -0.9 | |
| 143 | 143.7 | 6.287 | 33.147 | 6.78 | 0.17 | 26.053 | 0.279 | 1476. | -0.9 | |

| SHIP OC | CRUISE 181 | STATION 8 | DATE 05 FEB 1987 | | | EST 2330 | LATITUDE 41°42.1'N | LONGITUDE 66°26.0'W | DEPTH 170 | |
|------------|---------------|--------------|---------------------|-------------|------------------------|----------------------------|--|------------------------|--------------|--|
| DEPTH m | PRESS dbar | TEMP °C | SALIN psu | OXY ml/l | ATN m ⁻¹ | SIGT gm/cm ³ | DYHT A 10m ² /s ² | S SPD m/s | N cph | |
| 2 | 1.8 | 6.183 | 33.095 | 6.78 | 0.19 | 26.025 | 0.000 | 1473. | -0.4 | |
| 4 | 4.0 | 6.181 | 33.095 | 6.78 | 0.19 | 26.025 | 0.004 | 1473. | -0.4 | |
| 6 | 5.9 | 6.181 | 33.094 | 6.80 | 0.19 | 26.025 | 0.008 | 1473. | -0.4 | |
| 8 | 7.7 | 6.185 | 33.094 | 6.78 | 0.20 | 26.024 | 0.012 | 1473. | -0.4 | |
| 10 | 10.1 | 6.187 | 33.094 | 6.77 | 0.19 | 26.024 | 0.016 | 1473. | -0.4 | |
| 12 | 11.9 | 6.184 | 33.094 | 6.77 | 0.20 | 26.024 | 0.020 | 1473. | -0.5 | |
| 14 | 14.0 | 6.191 | 33.095 | 6.77 | 0.20 | 26.024 | 0.024 | 1473. | -0.4 | |
| 16 | 15.9 | 6.193 | 33.095 | 6.77 | 0.20 | 26.024 | 0.028 | 1473. | -0.4 | |
| 18 | 18.0 | 6.189 | 33.095 | 6.77 | 0.20 | 26.024 | 0.032 | 1473. | -0.5 | |
| 20 | 20.0 | 6.194 | 33.095 | 6.77 | 0.20 | 26.024 | 0.036 | 1473. | -0.5 | |
| 22 | 21.9 | 6.194 | 33.095 | 6.77 | 0.20 | 26.023 | 0.040 | 1473. | -0.5 | |
| 24 | 23.9 | 6.196 | 33.095 | 6.78 | 0.20 | 26.023 | 0.044 | 1474. | -0.4 | |
| 26 | 26.0 | 6.197 | 33.095 | 6.77 | 0.20 | 26.023 | 0.048 | 1474. | -0.4 | |
| 28 | 28.1 | 6.197 | 33.094 | 6.78 | 0.20 | 26.023 | 0.052 | 1474. | -0.3 | |
| 30 | 29.9 | 6.198 | 33.095 | 6.78 | 0.20 | 26.023 | 0.056 | 1474. | 0.0 | |
| 32 | 32.0 | 6.198 | 33.095 | 6.78 | 0.20 | 26.023 | 0.060 | 1474. | 0.3 | |
| 34 | 34.1 | 6.200 | 33.095 | 6.78 | 0.20 | 26.023 | 0.064 | 1474. | 0.3 | |
| 36 | 35.9 | 6.199 | 33.095 | 6.78 | 0.20 | 26.023 | 0.067 | 1474. | 0.3 | |
| 38 | 38.1 | 6.199 | 33.095 | 6.77 | 0.20 | 26.023 | 0.072 | 1474. | 0.4 | |
| 40 | 40.2 | 6.197 | 33.095 | 6.77 | 0.20 | 26.023 | 0.076 | 1474. | 0.4 | |
| 42 | 42.0 | 6.197 | 33.095 | 6.76 | 0.20 | 26.023 | 0.079 | 1474. | 0.5 | |
| 44 | 44.1 | 6.197 | 33.095 | 6.77 | 0.20 | 26.023 | 0.084 | 1474. | 0.4 | |
| 46 | 46.0 | 6.196 | 33.096 | 6.77 | 0.20 | 26.024 | 0.087 | 1474. | 0.4 | |
| 48 | 48.1 | 6.196 | 33.095 | 6.77 | 0.20 | 26.024 | 0.091 | 1474. | 0.4 | |
| 50 | 50.1 | 6.198 | 33.095 | 6.77 | 0.19 | 26.023 | 0.095 | 1474. | 0.5 | |
| 52 | 52.0 | 6.197 | 33.095 | 6.77 | 0.19 | 26.023 | 0.099 | 1474. | 0.5 | |
| 53 | 53.9 | 6.197 | 33.095 | 6.77 | 0.19 | 26.023 | 0.103 | 1474. | 0.5 | |
| 55 | 55.9 | 6.199 | 33.096 | 6.77 | 0.20 | 26.024 | 0.107 | 1474. | 0.5 | |
| 58 | 58.1 | 6.204 | 33.098 | 6.76 | 0.19 | 26.024 | 0.111 | 1474. | 0.3 | |
| 59 | 60.0 | 6.205 | 33.098 | 6.76 | 0.19 | 26.025 | 0.115 | 1474. | 0.3 | |
| 61 | 61.9 | 6.206 | 33.098 | 6.75 | 0.20 | 26.024 | 0.119 | 1474. | 0.5 | |
| 63 | 64.0 | 6.205 | 33.097 | 6.75 | 0.20 | 26.024 | 0.123 | 1474. | 0.6 | |
| 66 | 66.1 | 6.203 | 33.096 | 6.76 | 0.19 | 26.023 | 0.127 | 1474. | 0.6 | |
| 67 | 68.0 | 6.209 | 33.098 | 6.77 | 0.19 | 26.024 | 0.131 | 1474. | 0.7 | |
| 69 | 70.0 | 6.214 | 33.102 | 6.77 | 0.19 | 26.026 | 0.135 | 1474. | 0.8 | |
| 71 | 72.0 | 6.218 | 33.102 | 6.77 | 0.19 | 26.026 | 0.139 | 1474. | 1.0 | |
| 73 | 74.1 | 6.211 | 33.100 | 6.77 | 0.19 | 26.025 | 0.143 | 1474. | 1.1 | |
| 75 | 76.0 | 6.217 | 33.102 | 6.76 | 0.19 | 26.026 | 0.147 | 1474. | 1.0 | |
| 77 | 77.9 | 6.220 | 33.104 | 6.77 | 0.18 | 26.027 | 0.151 | 1474. | 1.0 | |
| 79 | 80.1 | 6.230 | 33.108 | 6.78 | 0.18 | 26.029 | 0.155 | 1475. | 1.1 | |
| 81 | 82.0 | 6.230 | 33.108 | 6.78 | 0.18 | 26.029 | 0.159 | 1475. | 1.1 | |
| 83 | 84.0 | 6.231 | 33.109 | 6.77 | 0.18 | 26.029 | 0.163 | 1475. | 1.0 | |
| 85 | 86.0 | 6.232 | 33.110 | 6.76 | 0.18 | 26.031 | 0.167 | 1475. | 1.0 | |
| 87 | 87.9 | 6.232 | 33.110 | 6.76 | 0.17 | 26.031 | 0.170 | 1475. | 0.9 | |
| 89 | 90.0 | 6.232 | 33.111 | 6.76 | 0.17 | 26.031 | 0.175 | 1475. | 0.9 | |
| 91 | 92.1 | 6.231 | 33.111 | 6.77 | 0.17 | 26.032 | 0.179 | 1475. | 0.9 | |
| 93 | 93.9 | 6.230 | 33.113 | 6.77 | 0.17 | 26.033 | 0.182 | 1475. | 0.9 | |
| 95 | 96.0 | 6.230 | 33.113 | 6.77 | 0.17 | 26.033 | 0.186 | 1475. | 1.1 | |
| 97 | 98.0 | 6.231 | 33.113 | 6.76 | 0.17 | 26.033 | 0.190 | 1475. | 1.1 | |
| 99 | 100.1 | 6.231 | 33.114 | 6.76 | 0.16 | 26.034 | 0.194 | 1475. | 1.1 | |

| SHIP OC | CRUISE 181 | STATION 8 | DATE 05 FEB 1987 | EST 2330 | LATITUDE 41°42.1'N | LONGITUDE 68°26.0'W | DEPTH 170 | | | | | | |
|------------|---------------|--------------|---------------------|-------------|------------------------|----------------------------|--|--------------|----------|--|--|--|--|
| DEPTH m | PRESS dbar | TEMP °C | SALIN psu | OXY ml/l | ATN m ⁻¹ | SIGT gm/cm ³ | DYHT A 10m ² /s ² | S SPD m/s | N cph | | | | |
| 101 | 101.8 | 6.231 | 33.115 | 6.75 | 0.16 | 26.034 | 0.198 | 1475. | 1.1 | | | | |
| 103 | 104.1 | 6.233 | 33.119 | 6.76 | 0.16 | 26.038 | 0.202 | 1475. | 1.1 | | | | |
| 105 | 105.9 | 6.234 | 33.119 | 6.76 | 0.17 | 26.037 | 0.206 | 1475. | 1.0 | | | | |
| 107 | 108.1 | 6.236 | 33.120 | 6.76 | 0.17 | 26.038 | 0.210 | 1475. | 0.9 | | | | |
| 109 | 109.9 | 6.237 | 33.120 | 6.77 | 0.17 | 26.038 | 0.214 | 1475. | 0.7 | | | | |
| 111 | 112.0 | 6.237 | 33.120 | 6.78 | 0.17 | 26.038 | 0.218 | 1475. | 0.3 | | | | |
| 113 | 113.9 | 6.236 | 33.121 | 6.78 | 0.17 | 26.038 | 0.222 | 1475. | 0.2 | | | | |
| 115 | 116.1 | 6.237 | 33.120 | 6.78 | 0.17 | 26.038 | 0.226 | 1475. | 0.1 | | | | |
| 117 | 117.8 | 6.237 | 33.120 | 6.78 | 0.17 | 26.038 | 0.229 | 1475. | 0.2 | | | | |
| 119 | 120.0 | 6.237 | 33.120 | 6.78 | 0.17 | 26.037 | 0.234 | 1475. | 0.2 | | | | |
| 121 | 122.1 | 6.237 | 33.120 | 6.77 | 0.17 | 26.038 | 0.238 | 1475. | 0.2 | | | | |
| 123 | 123.9 | 6.239 | 33.121 | 6.78 | 0.17 | 26.038 | 0.241 | 1475. | 0.2 | | | | |
| 125 | 126.0 | 6.238 | 33.121 | 6.78 | 0.18 | 26.038 | 0.246 | 1475. | 0.2 | | | | |
| 127 | 128.1 | 6.239 | 33.120 | 6.78 | 0.17 | 26.038 | 0.250 | 1475. | 0.1 | | | | |
| 129 | 129.9 | 6.239 | 33.120 | 6.78 | 0.18 | 26.038 | 0.253 | 1475. | -0.3 | | | | |
| 131 | 132.0 | 6.240 | 33.120 | 6.78 | 0.18 | 26.038 | 0.258 | 1475. | -0.3 | | | | |
| 133 | 133.9 | 6.240 | 33.120 | 6.77 | 0.18 | 26.038 | 0.261 | 1476. | -0.3 | | | | |
| 135 | 136.1 | 6.240 | 33.120 | 6.77 | 0.18 | 26.038 | 0.266 | 1476. | -0.2 | | | | |
| 137 | 138.1 | 6.240 | 33.120 | 6.78 | 0.17 | 26.038 | 0.270 | 1476. | -0.3 | | | | |
| 139 | 140.0 | 6.240 | 33.120 | 6.76 | 0.17 | 26.038 | 0.273 | 1476. | -0.3 | | | | |
| 141 | 141.7 | 6.240 | 33.120 | 6.77 | 0.17 | 26.038 | 0.277 | 1476. | -0.3 | | | | |
| 143 | 143.8 | 6.240 | 33.120 | 6.77 | 0.18 | 26.038 | 0.281 | 1476. | -0.2 | | | | |
| 145 | 146.2 | 6.242 | 33.120 | 6.76 | 0.19 | 26.037 | 0.286 | 1476. | -0.1 | | | | |
| 147 | 148.0 | 6.242 | 33.120 | 6.78 | 0.19 | 26.037 | 0.289 | 1476. | 0.1 | | | | |
| 149 | 149.9 | 6.242 | 33.120 | 6.78 | 0.19 | 26.037 | 0.293 | 1476. | 0.2 | | | | |
| 151 | 152.2 | 6.243 | 33.121 | 6.77 | 0.20 | 26.037 | 0.297 | 1476. | 0.3 | | | | |
| 153 | 153.8 | 6.243 | 33.121 | 6.75 | 0.21 | 26.038 | 0.301 | 1476. | 0.3 | | | | |
| 155 | 156.2 | 6.243 | 33.121 | 6.76 | 0.20 | 26.038 | 0.305 | 1476. | 0.2 | | | | |
| 156 | 157.3 | 6.243 | 33.121 | 6.77 | 0.20 | 26.037 | 0.307 | 1476. | 0.2 | | | | |
| 157 | 158.0 | 6.244 | 33.120 | 6.77 | 0.20 | 26.037 | 0.309 | 1476. | -0.1 | | | | |
| 158 | 159.0 | 6.244 | 33.121 | 6.78 | 0.20 | 26.037 | 0.311 | 1476. | -0.1 | | | | |
| 159 | 160.0 | 6.244 | 33.120 | 6.77 | 0.20 | 26.037 | 0.313 | 1476. | -0.1 | | | | |
| 160 | 161.0 | 6.244 | 33.121 | 6.78 | 0.20 | 26.037 | 0.315 | 1476. | 0.2 | | | | |
| 161 | 162.0 | 6.244 | 33.121 | 6.78 | 0.20 | 26.037 | 0.317 | 1476. | 0.3 | | | | |
| 162 | 163.0 | 6.244 | 33.121 | 6.79 | 0.20 | 26.037 | 0.319 | 1476. | 0.2 | | | | |
| 163 | 164.0 | 6.244 | 33.120 | 6.79 | 0.20 | 26.037 | 0.321 | 1476. | 0.2 | | | | |
| 164 | 165.0 | 6.244 | 33.121 | 6.78 | 0.20 | 26.037 | 0.323 | 1476. | 0.2 | | | | |
| 165 | 166.1 | 6.244 | 33.120 | 6.78 | 0.20 | 26.037 | 0.325 | 1476. | 0.2 | | | | |
| 165 | 166.6 | 6.245 | 33.120 | 6.77 | 0.21 | 26.037 | 0.326 | 1476. | 0.2 | | | | |

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| SHIP OC | CRUISE 181 | STATION 9 | DATE 06 FEB 1987 | EST 0056 | LATITUDE 41°45.4'N | LONGITUDE 68°11.9'W | DEPTH 62 | | | | | | |
|------------|---------------|--------------|---------------------|-------------|------------------------|----------------------------|--|--------------|----------|--|--|--|--|
| DEPTH m | PRESS dbar | TEMP °C | SALIN psu | OXY ml/l | ATN m ⁻¹ | SIGT gm/cm ³ | DYHT A 10m ² /s ² | S SPD m/s | N cph | | | | |
| 2 | 2.2 | 5.835 | 33.061 | 6.91 | 0.25 | 26.041 | 0.000 | 1472. | 0.3 | | | | |
| 4 | 3.9 | 5.838 | 33.061 | 6.92 | 0.24 | 26.040 | 0.003 | 1472. | 0.3 | | | | |
| 6 | 6.0 | 5.839 | 33.061 | 6.93 | 0.25 | 26.040 | 0.007 | 1472. | 0.3 | | | | |
| 8 | 8.1 | 5.837 | 33.061 | 6.93 | 0.25 | 26.041 | 0.011 | 1472. | 0.3 | | | | |
| 10 | 10.2 | 5.838 | 33.061 | 6.93 | 0.24 | 26.040 | 0.016 | 1472. | 0.3 | | | | |
| 12 | 12.0 | 5.838 | 33.061 | 6.93 | 0.25 | 26.041 | 0.019 | 1472. | 0.4 | | | | |
| 14 | 13.9 | 5.835 | 33.061 | 6.92 | 0.24 | 26.041 | 0.023 | 1472. | 0.3 | | | | |
| 16 | 16.1 | 5.835 | 33.061 | 6.93 | 0.24 | 26.041 | 0.027 | 1472. | -0.3 | | | | |
| 18 | 17.8 | 5.836 | 33.061 | 6.94 | 0.24 | 26.041 | 0.031 | 1472. | -0.4 | | | | |
| 20 | 20.1 | 5.836 | 33.061 | 6.94 | 0.25 | 26.041 | 0.035 | 1472. | -0.4 | | | | |
| 22 | 21.8 | 5.839 | 33.061 | 6.93 | 0.25 | 26.040 | 0.038 | 1472. | -0.4 | | | | |
| 24 | 24.0 | 5.847 | 33.061 | 6.92 | 0.25 | 26.039 | 0.043 | 1472. | -0.2 | | | | |
| 26 | 26.2 | 5.845 | 33.061 | 6.91 | 0.24 | 26.040 | 0.047 | 1472. | 0.2 | | | | |
| 28 | 27.9 | 5.842 | 33.061 | 6.93 | 0.24 | 26.040 | 0.050 | 1472. | 0.5 | | | | |
| 30 | 30.1 | 5.840 | 33.061 | 6.92 | 0.25 | 26.040 | 0.055 | 1472. | 0.5 | | | | |
| 32 | 31.9 | 5.835 | 33.061 | 6.92 | 0.24 | 26.041 | 0.058 | 1472. | 0.6 | | | | |
| 34 | 33.9 | 5.835 | 33.061 | 6.92 | 0.24 | 26.041 | 0.062 | 1472. | 0.3 | | | | |
| 36 | 35.8 | 5.834 | 33.061 | 6.91 | 0.24 | 26.041 | 0.066 | 1472. | -0.2 | | | | |
| 37 | 37.8 | 5.834 | 33.061 | 6.89 | 0.24 | 26.041 | 0.070 | 1472. | -0.5 | | | | |
| 40 | 40.0 | 5.838 | 33.061 | 6.90 | 0.24 | 26.040 | 0.074 | 1472. | -0.6 | | | | |
| 42 | 42.0 | 5.841 | 33.061 | 6.91 | 0.24 | 26.040 | 0.078 | 1472. | -0.7 | | | | |
| 44 | 44.1 | 5.842 | 33.061 | 6.90 | 0.24 | 26.040 | 0.082 | 1472. | -0.7 | | | | |
| 46 | 46.0 | 5.850 | 33.061 | 6.88 | 0.25 | 26.039 | 0.086 | 1472. | -0.7 | | | | |
| 47 | 47.8 | 5.849 | 33.061 | 6.89 | 0.24 | 26.039 | 0.089 | 1472. | -0.6 | | | | |
| 49 | 49.2 | 5.849 | 33.061 | 6.90 | 0.25 | 26.039 | 0.092 | 1472. | -0.6 | | | | |
| 50 | 50.1 | 5.850 | 33.061 | 6.90 | 0.24 | 26.039 | 0.094 | 1473. | -0.5 | | | | |
| 51 | 50.9 | 5.849 | 33.061 | 6.89 | 0.24 | 26.039 | 0.096 | 1473. | -0.3 | | | | |
| 52 | 52.1 | 5.850 | 33.060 | 6.88 | 0.25 | 26.039 | 0.098 | 1473. | -0.2 | | | | |
| 53 | 53.0 | 5.850 | 33.060 | 6.88 | 0.25 | 26.039 | 0.100 | 1473. | -0.3 | | | | |
| 53 | 53.9 | 5.850 | 33.060 | 6.89 | 0.25 | 26.039 | 0.101 | 1473. | -0.3 | | | | |
| 55 | 55.0 | 5.850 | 33.061 | 6.90 | 0.25 | 26.039 | 0.104 | 1473. | -0.3 | | | | |
| 55 | 55.9 | 5.850 | 33.061 | 6.91 | 0.25 | 26.039 | 0.105 | 1473. | -0.3 | | | | |
| 57 | 57.1 | 5.851 | 33.060 | 6.89 | 0.25 | 26.039 | 0.108 | 1473. | -0.3 | | | | |
| 58 | 58.1 | 5.848 | 33.060 | 6.89 | 0.24 | 26.039 | 0.110 | 1473. | -0.3 | | | | |

| SHIP OC | CRUISE 181 | STATION 10 | DATE 06 FEB 1987 | EST 0144 | LATITUDE 41°49.3'N | LONGITUDE 68°15.3'W | DEPTH 142 | | |
|------------|---------------|---------------|---------------------|-------------|------------------------|----------------------------|--|--------------|----------|
| DEPTH m | PRESS dbar | TEMP °C | SALIN psu | OXY ml/l | ATN m ⁻¹ | SIGT gm/cm ³ | DYHT A 10m ² /s ² | S SPD m/s | N cph |
| 3 | 2.8 | 6.083 | 33.086 | 6.83 | 0.23 | 26.030 | 0.000 | 1473. | -0.4 |
| 4 | 3.9 | 6.083 | 33.085 | 6.83 | 0.23 | 26.030 | 0.002 | 1473. | -0.4 |
| 6 | 6.0 | 6.094 | 33.086 | 6.82 | 0.23 | 26.029 | 0.006 | 1473. | -0.4 |
| 8 | 7.9 | 6.101 | 33.087 | 6.83 | 0.23 | 26.029 | 0.010 | 1473. | -0.4 |
| 10 | 10.0 | 6.102 | 33.087 | 6.82 | 0.23 | 26.028 | 0.014 | 1473. | -0.4 |
| 12 | 11.8 | 6.104 | 33.087 | 6.83 | 0.23 | 26.029 | 0.018 | 1473. | 0.2 |
| 14 | 14.0 | 6.090 | 33.086 | 6.81 | 0.23 | 26.029 | 0.022 | 1473. | 0.4 |
| 16 | 16.0 | 6.090 | 33.086 | 6.83 | 0.23 | 26.029 | 0.026 | 1473. | 0.2 |
| 18 | 18.0 | 6.093 | 33.086 | 6.83 | 0.23 | 26.029 | 0.030 | 1473. | -0.2 |
| 20 | 19.9 | 6.090 | 33.086 | 6.82 | 0.23 | 26.029 | 0.034 | 1473. | -0.4 |
| 22 | 21.9 | 6.098 | 33.087 | 6.81 | 0.23 | 26.029 | 0.038 | 1473. | -0.5 |
| 24 | 24.0 | 6.094 | 33.085 | 6.81 | 0.23 | 26.028 | 0.042 | 1473. | -0.5 |
| 26 | 25.9 | 6.093 | 33.085 | 6.83 | 0.23 | 26.028 | 0.046 | 1473. | -0.4 |
| 28 | 28.1 | 6.092 | 33.085 | 6.82 | 0.23 | 26.028 | 0.050 | 1473. | -0.4 |
| 30 | 29.9 | 6.098 | 33.086 | 6.80 | 0.23 | 26.028 | 0.053 | 1473. | -0.4 |
| 32 | 31.9 | 6.094 | 33.085 | 6.82 | 0.23 | 26.028 | 0.057 | 1473. | -0.4 |
| 34 | 33.9 | 6.094 | 33.085 | 6.82 | 0.23 | 26.028 | 0.061 | 1473. | -0.5 |
| 36 | 35.9 | 6.095 | 33.085 | 6.81 | 0.23 | 26.028 | 0.065 | 1473. | -0.5 |
| 38 | 37.8 | 6.097 | 33.085 | 6.82 | 0.23 | 26.028 | 0.069 | 1473. | -0.4 |
| 40 | 39.8 | 6.101 | 33.084 | 6.83 | 0.23 | 26.027 | 0.073 | 1473. | 0.1 |
| 42 | 41.9 | 6.106 | 33.085 | 6.81 | 0.23 | 26.027 | 0.077 | 1473. | 0.3 |
| 44 | 43.9 | 6.103 | 33.085 | 6.82 | 0.23 | 26.027 | 0.081 | 1473. | 0.5 |
| 45 | 45.8 | 6.094 | 33.085 | 6.83 | 0.23 | 26.028 | 0.085 | 1473. | 0.6 |
| 48 | 47.9 | 6.094 | 33.085 | 6.83 | 0.23 | 26.028 | 0.089 | 1473. | 0.6 |
| 49 | 49.7 | 6.108 | 33.087 | 6.83 | 0.23 | 26.028 | 0.093 | 1474. | 0.6 |
| 52 | 52.1 | 6.101 | 33.087 | 6.83 | 0.23 | 26.029 | 0.097 | 1474. | 0.5 |
| 54 | 54.0 | 6.133 | 33.092 | 6.82 | 0.23 | 26.028 | 0.101 | 1474. | 0.4 |
| 56 | 56.0 | 6.133 | 33.092 | 6.83 | 0.23 | 26.028 | 0.105 | 1474. | 0.5 |
| 58 | 58.1 | 6.132 | 33.092 | 6.81 | 0.23 | 26.029 | 0.109 | 1474. | 0.5 |
| 60 | 60.2 | 6.132 | 33.092 | 6.79 | 0.23 | 26.029 | 0.113 | 1474. | 0.5 |
| 61 | 62.0 | 6.130 | 33.092 | 6.81 | 0.23 | 26.029 | 0.117 | 1474. | 0.6 |
| 63 | 63.9 | 6.139 | 33.094 | 6.79 | 0.23 | 26.029 | 0.121 | 1474. | 0.5 |
| 65 | 65.8 | 6.141 | 33.094 | 6.81 | 0.23 | 26.030 | 0.124 | 1474. | 0.5 |
| 67 | 67.9 | 6.142 | 33.095 | 6.82 | 0.23 | 26.030 | 0.128 | 1474. | 0.4 |
| 70 | 70.2 | 6.146 | 33.095 | 6.81 | 0.23 | 26.030 | 0.133 | 1474. | 0.3 |
| 71 | 72.0 | 6.149 | 33.095 | 6.82 | 0.23 | 26.030 | 0.137 | 1474. | -0.2 |
| 73 | 73.8 | 6.154 | 33.096 | 6.80 | 0.23 | 26.030 | 0.140 | 1474. | -0.3 |
| 75 | 76.0 | 6.159 | 33.097 | 6.79 | 0.23 | 26.030 | 0.144 | 1474. | -0.3 |
| 77 | 78.0 | 6.160 | 33.097 | 6.80 | 0.23 | 26.029 | 0.148 | 1474. | -0.4 |
| 80 | 80.2 | 6.160 | 33.097 | 6.80 | 0.23 | 26.029 | 0.153 | 1474. | -0.4 |
| 81 | 81.9 | 6.159 | 33.096 | 6.81 | 0.23 | 26.029 | 0.156 | 1474. | -0.2 |
| 83 | 83.8 | 6.170 | 33.099 | 6.80 | 0.24 | 26.029 | 0.160 | 1474. | 0.4 |
| 85 | 86.0 | 6.175 | 33.099 | 6.80 | 0.24 | 26.029 | 0.164 | 1474. | 0.3 |
| 87 | 87.9 | 6.179 | 33.099 | 6.81 | 0.24 | 26.029 | 0.168 | 1474. | 0.3 |
| 89 | 90.1 | 6.177 | 33.100 | 6.79 | 0.23 | 26.029 | 0.172 | 1475. | 0.2 |
| 91 | 92.0 | 6.180 | 33.102 | 6.80 | 0.23 | 26.031 | 0.176 | 1475. | -0.2 |
| 93 | 93.8 | 6.198 | 33.102 | 6.80 | 0.24 | 26.029 | 0.180 | 1475. | 0.2 |
| 95 | 96.1 | 6.198 | 33.103 | 6.80 | 0.24 | 26.029 | 0.184 | 1475. | 0.3 |
| 97 | 97.9 | 6.201 | 33.103 | 6.80 | 0.24 | 26.029 | 0.188 | 1475. | 0.3 |
| 99 | 100.2 | 6.202 | 33.103 | 6.81 | 0.24 | 26.029 | 0.192 | 1475. | 0.4 |

| SHIP OC | CRUISE 181 | STATION 10 | DATE 06 FEB 1987 | EST 0144 | LATITUDE 41°49.3'N | LONGITUDE 68°15.3'W | DEPTH 142 | | |
|------------|---------------|---------------|---------------------|-------------|------------------------|----------------------------|--|--------------|----------|
| DEPTH m | PRESS dbar | TEMP °C | SALIN psu | OXY ml/l | ATN m ⁻¹ | SIGT gm/cm ³ | DYHT A 10m ² /s ² | S SPD m/s | N cph |
| 101 | 102.1 | 6.190 | 33.102 | 6.81 | 0.24 | 26.029 | 0.196 | 1475. | 0.6 |
| 103 | 103.7 | 6.175 | 33.100 | 6.82 | 0.23 | 26.030 | 0.199 | 1475. | 0.7 |
| 105 | 105.9 | 6.178 | 33.101 | 6.82 | 0.24 | 26.030 | 0.204 | 1475. | 0.7 |
| 107 | 108.1 | 6.175 | 33.100 | 6.82 | 0.24 | 26.030 | 0.208 | 1475. | 0.7 |
| 109 | 110.2 | 6.176 | 33.101 | 6.79 | 0.24 | 26.031 | 0.212 | 1475. | 0.7 |
| 111 | 111.9 | 6.173 | 33.102 | 6.79 | 0.23 | 26.031 | 0.216 | 1475. | 0.6 |
| 113 | 113.9 | 6.172 | 33.102 | 6.80 | 0.23 | 26.031 | 0.219 | 1475. | 0.5 |
| 115 | 116.2 | 6.170 | 33.101 | 6.83 | 0.23 | 26.031 | 0.224 | 1475. | 0.4 |
| 117 | 118.1 | 6.170 | 33.102 | 6.81 | 0.23 | 26.032 | 0.228 | 1475. | 0.3 |
| 119 | 119.9 | 6.173 | 33.101 | 6.79 | 0.23 | 26.031 | 0.232 | 1475. | -0.1 |
| 121 | 122.0 | 6.172 | 33.101 | 6.79 | 0.23 | 26.031 | 0.236 | 1475. | -0.2 |
| 123 | 124.1 | 6.172 | 33.101 | 6.78 | 0.23 | 26.031 | 0.240 | 1475. | -0.2 |
| 125 | 126.1 | 6.173 | 33.101 | 6.77 | 0.23 | 26.031 | 0.244 | 1475. | -0.2 |
| 127 | 128.0 | 6.175 | 33.102 | 6.79 | 0.23 | 26.031 | 0.247 | 1475. | 0.2 |
| 129 | 130.1 | 6.176 | 33.102 | 6.79 | 0.23 | 26.031 | 0.252 | 1475. | 0.3 |
| 131 | 132.1 | 6.178 | 33.102 | 6.79 | 0.23 | 26.031 | 0.256 | 1475. | 0.3 |
| 133 | 133.8 | 6.179 | 33.102 | 6.80 | 0.24 | 26.031 | 0.259 | 1475. | 0.3 |
| 134 | 135.2 | 6.179 | 33.102 | 6.81 | 0.24 | 26.031 | 0.262 | 1475. | 0.3 |
| 135 | 135.9 | 6.180 | 33.103 | 6.82 | 0.25 | 26.031 | 0.263 | 1475. | 0.4 |
| 136 | 136.9 | 6.180 | 33.103 | 6.81 | 0.25 | 26.031 | 0.265 | 1475. | 0.2 |
| 137 | 138.0 | 6.180 | 33.103 | 6.81 | 0.25 | 26.031 | 0.267 | 1475. | -0.2 |
| 138 | 138.9 | 6.179 | 33.102 | 6.81 | 0.24 | 26.031 | 0.269 | 1475. | -0.3 |
| 139 | 140.0 | 6.179 | 33.102 | 6.81 | 0.24 | 26.031 | 0.271 | 1475. | -0.3 |
| 140 | 141.1 | 6.179 | 33.102 | 6.80 | 0.24 | 26.031 | 0.274 | 1475. | -0.3 |
| 141 | 141.9 | 6.179 | 33.102 | 6.80 | 0.24 | 26.031 | 0.275 | 1475. | -0.3 |
| 142 | 143.1 | 6.180 | 33.102 | 6.81 | 0.24 | 26.031 | 0.277 | 1475. | -0.3 |
| 143 | 144.0 | 6.180 | 33.102 | 6.81 | 0.24 | 26.031 | 0.279 | 1475. | -0.3 |
| 144 | 144.9 | 6.180 | 33.102 | 6.81 | 0.24 | 26.031 | 0.281 | 1475. | -0.3 |

| SHIP OC | CRUISE 181 | STATION 11 | DATE 06 FEB 1987 | EST 0244 | LATITUDE 41°53.8'N | LONGITUDE 68°16.9'W | DEPTH 212 | | |
|------------|---------------|---------------|---------------------|-------------|------------------------|----------------------------|--|--------------|----------|
| DEPTH m | PRESS dbar | TEMP °C | SALIN psu | OXY ml/l | ATN m ⁻¹ | SIGT gm/cm ³ | DYHT A 10m ² /s ² | S SPD m/s | N cph |
| 4 | 4.1 | 6.154 | 33.160 | 6.76 | 0.13 | 26.080 | 0.000 | 1473. | 0.7 |
| 6 | 6.1 | 6.156 | 33.160 | 6.76 | 0.13 | 26.079 | 0.004 | 1473. | 0.7 |
| 8 | 7.9 | 6.154 | 33.160 | 6.76 | 0.13 | 26.080 | 0.007 | 1473. | 0.7 |
| 10 | 9.9 | 6.155 | 33.160 | 6.78 | 0.13 | 26.080 | 0.011 | 1473. | 0.7 |
| 12 | 12.2 | 6.154 | 33.161 | 6.78 | 0.13 | 26.081 | 0.016 | 1473. | 0.7 |
| 14 | 14.0 | 6.149 | 33.161 | 6.77 | 0.13 | 26.081 | 0.019 | 1473. | 0.7 |
| 16 | 15.9 | 6.148 | 33.161 | 6.76 | 0.12 | 26.082 | 0.023 | 1473. | 0.7 |
| 18 | 18.0 | 6.147 | 33.161 | 6.74 | 0.12 | 26.082 | 0.027 | 1473. | 0.8 |
| 20 | 20.0 | 6.148 | 33.161 | 6.74 | 0.12 | 26.081 | 0.031 | 1473. | 0.9 |
| 22 | 22.0 | 6.147 | 33.161 | 6.74 | 0.12 | 26.082 | 0.035 | 1473. | 1.0 |
| 24 | 24.0 | 6.144 | 33.162 | 6.75 | 0.12 | 26.083 | 0.038 | 1473. | 1.1 |
| 26 | 26.0 | 6.142 | 33.163 | 6.74 | 0.12 | 26.084 | 0.042 | 1473. | 1.1 |
| 28 | 27.9 | 6.139 | 33.165 | 6.76 | 0.12 | 26.085 | 0.046 | 1473. | 1.0 |
| 30 | 30.1 | 6.137 | 33.166 | 6.75 | 0.12 | 26.087 | 0.050 | 1473. | 1.0 |
| 32 | 32.1 | 6.137 | 33.165 | 6.75 | 0.12 | 26.086 | 0.054 | 1473. | 1.1 |
| 34 | 34.0 | 6.138 | 33.165 | 6.75 | 0.12 | 26.086 | 0.058 | 1474. | 1.3 |
| 35 | 35.8 | 6.138 | 33.165 | 6.74 | 0.12 | 26.086 | 0.061 | 1474. | 1.5 |
| 38 | 38.0 | 6.133 | 33.167 | 6.75 | 0.11 | 26.088 | 0.065 | 1474. | 1.6 |
| 40 | 39.9 | 6.128 | 33.171 | 6.76 | 0.11 | 26.092 | 0.069 | 1474. | 1.7 |
| 41 | 41.8 | 6.122 | 33.173 | 6.77 | 0.11 | 26.094 | 0.072 | 1474. | 1.6 |
| 44 | 44.1 | 6.117 | 33.175 | 6.76 | 0.11 | 26.096 | 0.077 | 1474. | 1.8 |
| 46 | 46.2 | 6.117 | 33.176 | 6.76 | 0.11 | 26.097 | 0.081 | 1474. | 1.9 |
| 48 | 47.9 | 6.118 | 33.175 | 6.77 | 0.11 | 26.096 | 0.084 | 1474. | 2.1 |
| 50 | 50.1 | 6.116 | 33.176 | 6.76 | 0.11 | 26.097 | 0.088 | 1474. | 2.2 |
| 52 | 52.0 | 6.102 | 33.184 | 6.77 | 0.10 | 26.105 | 0.092 | 1474. | 2.3 |
| 54 | 54.1 | 6.092 | 33.188 | 6.78 | 0.10 | 26.110 | 0.096 | 1474. | 2.3 |
| 56 | 56.1 | 6.079 | 33.194 | 6.79 | 0.10 | 26.116 | 0.100 | 1474. | 2.3 |
| 57 | 57.9 | 6.077 | 33.195 | 6.79 | 0.10 | 26.117 | 0.103 | 1474. | 2.1 |
| 60 | 60.0 | 6.074 | 33.196 | 6.79 | 0.10 | 26.118 | 0.107 | 1474. | 1.8 |
| 61 | 61.9 | 6.071 | 33.197 | 6.80 | 0.09 | 26.120 | 0.111 | 1474. | 1.5 |
| 64 | 64.0 | 6.067 | 33.199 | 6.79 | 0.09 | 26.121 | 0.115 | 1474. | 1.3 |
| 66 | 66.2 | 6.066 | 33.199 | 6.80 | 0.09 | 26.122 | 0.119 | 1474. | 1.2 |
| 67 | 68.0 | 6.064 | 33.200 | 6.80 | 0.09 | 26.123 | 0.122 | 1474. | 1.1 |
| 70 | 70.2 | 6.064 | 33.200 | 6.80 | 0.09 | 26.123 | 0.126 | 1474. | 1.0 |
| 71 | 71.8 | 6.062 | 33.201 | 6.80 | 0.09 | 26.124 | 0.129 | 1474. | 1.0 |
| 74 | 74.3 | 6.062 | 33.201 | 6.80 | 0.09 | 26.124 | 0.134 | 1474. | 1.0 |
| 75 | 75.7 | 6.060 | 33.202 | 6.81 | 0.09 | 26.124 | 0.137 | 1474. | 1.0 |
| 77 | 78.1 | 6.058 | 33.203 | 6.80 | 0.09 | 26.125 | 0.141 | 1474. | 1.0 |
| 79 | 79.8 | 6.055 | 33.203 | 6.81 | 0.09 | 26.126 | 0.144 | 1474. | 0.9 |
| 81 | 81.9 | 6.055 | 33.204 | 6.81 | 0.09 | 26.127 | 0.149 | 1474. | 0.8 |
| 83 | 84.1 | 6.055 | 33.204 | 6.82 | 0.09 | 26.127 | 0.153 | 1474. | 0.7 |
| 85 | 85.9 | 6.056 | 33.205 | 6.82 | 0.09 | 26.127 | 0.156 | 1474. | 0.6 |
| 88 | 88.3 | 6.056 | 33.204 | 6.82 | 0.09 | 26.127 | 0.161 | 1474. | 0.4 |
| 89 | 89.9 | 6.056 | 33.204 | 6.81 | 0.09 | 26.127 | 0.164 | 1474. | 0.3 |
| 92 | 92.3 | 6.056 | 33.205 | 6.81 | 0.09 | 26.127 | 0.168 | 1474. | 0.2 |
| 93 | 94.1 | 6.056 | 33.205 | 6.81 | 0.09 | 26.127 | 0.171 | 1474. | 0.3 |
| 95 | 95.7 | 6.057 | 33.205 | 6.80 | 0.09 | 26.127 | 0.175 | 1474. | 0.4 |
| 97 | 98.1 | 6.057 | 33.205 | 6.81 | 0.09 | 26.127 | 0.179 | 1474. | 0.3 |
| 99 | 100.2 | 6.057 | 33.205 | 6.81 | 0.09 | 26.127 | 0.183 | 1474. | 0.3 |
| 101 | 101.9 | 6.056 | 33.205 | 6.81 | 0.09 | 26.128 | 0.186 | 1474. | 0.3 |

SHIP CRUISE STATION DATE EST LATITUDE LONGITUDE DEPTH
 OC 181 11 06 FEB 1987 0244 41°53.8'N 68°16.9'W 212

| DEPTH | PRESS | TEMP | SALIN | OXY | ATN | SIGT | DYHT A | S SPD | N |
|-------|-------|-------|--------|------|-----------------|--------------------|----------------------------------|-------|-----|
| m | dbar | °C | psu | ml/l | m ⁻¹ | gm/cm ³ | 10m ² /s ² | m/s | cph |
| 103 | 104.2 | 6.056 | 33.205 | 6.79 | 0.09 | 26.128 | 0.191 | 1474. | 0.3 |
| 105 | 105.9 | 6.056 | 33.205 | 6.81 | 0.09 | 26.127 | 0.194 | 1474. | 0.3 |
| 107 | 108.0 | 6.056 | 33.205 | 6.82 | 0.09 | 26.128 | 0.198 | 1474. | 0.3 |
| 109 | 110.0 | 6.057 | 33.205 | 6.82 | 0.09 | 26.127 | 0.202 | 1475. | 0.3 |
| 111 | 112.0 | 6.058 | 33.206 | 6.82 | 0.09 | 26.128 | 0.205 | 1475. | 0.3 |
| 113 | 113.9 | 6.059 | 33.205 | 6.83 | 0.09 | 26.128 | 0.209 | 1475. | 0.4 |
| 115 | 116.1 | 6.059 | 33.206 | 6.80 | 0.09 | 26.128 | 0.213 | 1475. | 0.4 |
| 117 | 118.0 | 6.059 | 33.206 | 6.80 | 0.09 | 26.128 | 0.217 | 1475. | 0.4 |
| 119 | 120.0 | 6.060 | 33.206 | 6.80 | 0.09 | 26.128 | 0.220 | 1475. | 0.4 |
| 121 | 121.9 | 6.060 | 33.206 | 6.82 | 0.09 | 26.128 | 0.224 | 1475. | 0.5 |
| 123 | 123.9 | 6.060 | 33.206 | 6.82 | 0.09 | 26.128 | 0.228 | 1475. | 0.5 |
| 125 | 126.0 | 6.061 | 33.207 | 6.81 | 0.09 | 26.128 | 0.232 | 1475. | 0.5 |
| 127 | 127.9 | 6.063 | 33.207 | 6.82 | 0.09 | 26.129 | 0.235 | 1475. | 0.5 |
| 129 | 130.0 | 6.065 | 33.208 | 6.83 | 0.09 | 26.129 | 0.239 | 1475. | 0.5 |
| 131 | 132.0 | 6.069 | 33.209 | 6.83 | 0.09 | 26.129 | 0.243 | 1475. | 0.5 |
| 133 | 134.0 | 6.070 | 33.209 | 6.83 | 0.09 | 26.129 | 0.247 | 1475. | 0.4 |
| 135 | 136.1 | 6.071 | 33.209 | 6.81 | 0.09 | 26.129 | 0.251 | 1475. | 0.3 |
| 137 | 137.9 | 6.071 | 33.209 | 6.83 | 0.09 | 26.129 | 0.254 | 1475. | 0.2 |
| 139 | 140.0 | 6.067 | 33.209 | 6.84 | 0.09 | 26.129 | 0.258 | 1475. | 0.1 |
| 141 | 142.0 | 6.064 | 33.208 | 6.83 | 0.09 | 26.129 | 0.262 | 1475. | 0.1 |
| 143 | 144.1 | 6.066 | 33.208 | 6.83 | 0.09 | 26.129 | 0.266 | 1475. | 0.3 |
| 145 | 146.1 | 6.070 | 33.209 | 6.82 | 0.09 | 26.129 | 0.270 | 1475. | 0.3 |
| 147 | 147.9 | 6.070 | 33.209 | 6.84 | 0.09 | 26.129 | 0.273 | 1475. | 0.5 |
| 149 | 150.2 | 6.069 | 33.209 | 6.84 | 0.10 | 26.129 | 0.277 | 1475. | 0.8 |
| 151 | 151.9 | 6.073 | 33.210 | 6.87 | 0.10 | 26.129 | 0.281 | 1475. | 1.3 |
| 153 | 154.1 | 6.078 | 33.211 | 6.91 | 0.12 | 26.129 | 0.285 | 1475. | 2.1 |
| 155 | 156.0 | 6.091 | 33.214 | 6.94 | 0.13 | 26.131 | 0.288 | 1475. | 2.8 |
| 157 | 158.1 | 6.126 | 33.223 | 6.92 | 0.13 | 26.133 | 0.292 | 1476. | 3.4 |
| 159 | 160.0 | 6.231 | 33.251 | 6.77 | 0.09 | 26.142 | 0.296 | 1476. | 3.8 |
| 161 | 162.0 | 6.357 | 33.293 | 6.42 | 0.10 | 26.159 | 0.300 | 1477. | 4.2 |
| 163 | 163.9 | 6.455 | 33.329 | 6.35 | 0.11 | 26.175 | 0.303 | 1477. | 4.5 |
| 165 | 165.9 | 6.528 | 33.358 | 6.26 | 0.13 | 26.188 | 0.307 | 1477. | 4.8 |
| 166 | 167.8 | 6.588 | 33.383 | 6.19 | 0.14 | 26.200 | 0.310 | 1478. | 5.1 |
| 169 | 170.1 | 6.652 | 33.411 | 6.10 | 0.17 | 26.214 | 0.315 | 1478. | 5.4 |
| 170 | 171.9 | 6.747 | 33.450 | 6.03 | 0.16 | 26.232 | 0.318 | 1479. | 5.7 |
| 173 | 174.1 | 6.907 | 33.507 | 5.91 | 0.14 | 26.255 | 0.322 | 1479. | 5.8 |
| 174 | 175.9 | 7.018 | 33.566 | 5.84 | 0.16 | 26.287 | 0.325 | 1480. | 5.7 |
| 176 | 177.9 | 7.078 | 33.617 | 5.81 | 0.16 | 26.319 | 0.328 | 1480. | 5.6 |
| 179 | 180.1 | 7.150 | 33.656 | 5.80 | 0.16 | 26.340 | 0.332 | 1481. | 5.5 |
| 181 | 182.0 | 7.164 | 33.663 | 5.81 | 0.16 | 26.343 | 0.335 | 1481. | 5.4 |
| 183 | 184.0 | 7.200 | 33.683 | 5.79 | 0.14 | 26.354 | 0.339 | 1481. | 5.4 |
| 185 | 186.2 | 7.240 | 33.716 | 5.40 | 0.13 | 26.375 | 0.342 | 1481. | 5.4 |
| 186 | 188.0 | 7.269 | 33.745 | 5.36 | 0.12 | 26.393 | 0.345 | 1481. | 5.7 |
| 188 | 189.9 | 7.343 | 33.800 | 5.28 | 0.12 | 26.426 | 0.349 | 1482. | 6.3 |
| 190 | 191.8 | 7.392 | 33.840 | 5.22 | 0.12 | 26.451 | 0.352 | 1482. | 6.6 |
| 192 | 194.0 | 7.402 | 33.859 | 5.17 | 0.13 | 26.465 | 0.355 | 1482. | 6.7 |
| 194 | 196.1 | 7.390 | 33.895 | 5.10 | 0.15 | 26.494 | 0.358 | 1482. | 6.7 |
| 196 | 198.0 | 7.422 | 33.979 | 5.07 | 0.21 | 26.556 | 0.361 | 1482. | 6.5 |
| 198 | 199.9 | 7.446 | 34.002 | 5.05 | 0.22 | 26.570 | 0.364 | 1482. | 6.4 |
| 200 | 201.2 | 7.462 | 34.014 | 5.03 | 0.23 | 26.578 | 0.366 | 1483. | 6.1 |

SHIP CRUISE STATION DATE EST LATITUDE LONGITUDE DEPTH
 OC 181 11 06 FEB 1987 0244 41°53.8'N 68°16.9'W 212

| DEPTH | PRESS | TEMP | SALIN | OXY | ATN | SIGT | DYHT A | S SPD | N |
|-------|-------|-------|--------|------|-----------------|--------------------|----------------------------------|-------|-----|
| m | dbar | °C | psu | ml/l | m ⁻¹ | gm/cm ³ | 10m ² /s ² | m/s | cph |
| 200 | 202.0 | 7.474 | 34.025 | 5.03 | 0.25 | 26.585 | 0.367 | 1483. | 5.3 |
| 201 | 203.0 | 7.483 | 34.031 | 5.03 | 0.28 | 26.588 | 0.369 | 1483. | 4.0 |
| 202 | 203.9 | 7.490 | 34.036 | 5.02 | 0.27 | 26.591 | 0.370 | 1483. | 3.6 |
| 203 | 205.1 | 7.498 | 34.043 | 5.01 | 0.27 | 26.595 | 0.372 | 1483. | 3.3 |
| 204 | 205.9 | 7.506 | 34.049 | 5.01 | 0.28 | 26.599 | 0.373 | 1483. | 3.0 |
| 205 | 207.0 | 7.515 | 34.056 | 5.01 | 0.29 | 26.603 | 0.375 | 1483. | 2.7 |
| 206 | 207.9 | 7.519 | 34.059 | 5.00 | 0.31 | 26.605 | 0.376 | 1483. | 2.7 |
| 207 | 209.2 | 7.521 | 34.061 | 5.00 | 0.30 | 26.606 | 0.378 | 1483. | 2.7 |
| 208 | 210.0 | 7.521 | 34.061 | 4.99 | 0.30 | 26.606 | 0.379 | 1483. | 2.7 |
| 209 | 210.9 | 7.522 | 34.061 | 5.00 | 0.30 | 26.607 | 0.380 | 1483. | 2.7 |

| SHIP OC | CRUISE 181 | STATION 12 | DATE 06 FEB 1987 | EST 0423 | LATITUDE 42°02.9'N | LONGITUDE 68°23.5'W | DEPTH 188 | | |
|------------|---------------|---------------|---------------------|-------------|------------------------|----------------------------|--|--------------|----------|
| DEPTH m | PRESS dbar | TEMP °C | SALIN psu | OXY ml/l | ATN m ⁻¹ | SIGT gm/cm ³ | DYHT A 10m ² /s ² | S SPD m/s | N cph |
| 2 | 2.1 | 6.066 | 33.182 | 6.80 | 0.11 | 26.108 | 0.000 | 1473. | -0.7 |
| 4 | 4.0 | 6.073 | 33.182 | 6.78 | 0.10 | 26.107 | 0.004 | 1473. | -0.7 |
| 6 | 6.1 | 6.079 | 33.182 | 6.79 | 0.10 | 26.107 | 0.007 | 1473. | -0.7 |
| 8 | 7.8 | 6.083 | 33.182 | 6.80 | 0.10 | 26.106 | 0.011 | 1473. | -0.7 |
| 10 | 10.0 | 6.081 | 33.182 | 6.79 | 0.10 | 26.106 | 0.015 | 1473. | -0.7 |
| 12 | 12.1 | 6.082 | 33.181 | 6.78 | 0.10 | 26.106 | 0.019 | 1473. | -0.5 |
| 14 | 13.9 | 6.082 | 33.181 | 6.77 | 0.10 | 26.105 | 0.022 | 1473. | -0.4 |
| 16 | 15.9 | 6.082 | 33.181 | 6.78 | 0.10 | 26.106 | 0.026 | 1473. | -0.2 |
| 18 | 18.1 | 6.082 | 33.181 | 6.79 | 0.10 | 26.105 | 0.030 | 1473. | -0.1 |
| 20 | 19.9 | 6.083 | 33.182 | 6.78 | 0.10 | 26.106 | 0.034 | 1473. | 0.0 |
| 22 | 21.9 | 6.082 | 33.181 | 6.78 | 0.10 | 26.106 | 0.038 | 1473. | -0.1 |
| 24 | 24.2 | 6.085 | 33.181 | 6.78 | 0.10 | 26.105 | 0.042 | 1473. | 0.0 |
| 26 | 26.0 | 6.089 | 33.182 | 6.78 | 0.10 | 26.106 | 0.045 | 1473. | 0.2 |
| 28 | 28.2 | 6.089 | 33.182 | 6.77 | 0.10 | 26.105 | 0.049 | 1473. | 0.2 |
| 30 | 30.1 | 6.090 | 33.182 | 6.76 | 0.10 | 26.105 | 0.053 | 1473. | 0.4 |
| 32 | 31.9 | 6.090 | 33.183 | 6.77 | 0.10 | 26.106 | 0.057 | 1473. | 0.5 |
| 34 | 34.0 | 6.091 | 33.183 | 6.78 | 0.10 | 26.106 | 0.060 | 1473. | 0.5 |
| 36 | 36.2 | 6.091 | 33.183 | 6.77 | 0.10 | 26.106 | 0.065 | 1473. | 0.6 |
| 38 | 38.3 | 6.088 | 33.183 | 6.77 | 0.10 | 26.107 | 0.069 | 1473. | 0.5 |
| 40 | 40.0 | 6.090 | 33.183 | 6.77 | 0.10 | 26.106 | 0.072 | 1473. | 0.5 |
| 41 | 41.8 | 6.089 | 33.184 | 6.75 | 0.10 | 26.107 | 0.075 | 1473. | 0.3 |
| 44 | 44.1 | 6.088 | 33.184 | 6.76 | 0.10 | 26.107 | 0.080 | 1474. | -0.4 |
| 46 | 46.1 | 6.089 | 33.184 | 6.76 | 0.10 | 26.107 | 0.084 | 1474. | -0.6 |
| 48 | 48.3 | 6.087 | 33.184 | 6.74 | 0.10 | 26.107 | 0.088 | 1474. | -0.5 |
| 49 | 49.7 | 6.091 | 33.182 | 6.74 | 0.10 | 26.105 | 0.090 | 1474. | -0.6 |
| 51 | 51.8 | 6.092 | 33.181 | 6.74 | 0.10 | 26.104 | 0.094 | 1474. | -0.6 |
| 53 | 53.9 | 6.091 | 33.182 | 6.75 | 0.10 | 26.105 | 0.098 | 1474. | -0.4 |
| 56 | 56.1 | 6.091 | 33.183 | 6.75 | 0.10 | 26.106 | 0.103 | 1474. | -0.3 |
| 57 | 57.9 | 6.091 | 33.182 | 6.76 | 0.10 | 26.105 | 0.106 | 1474. | 0.4 |
| 60 | 60.2 | 6.091 | 33.182 | 6.76 | 0.10 | 26.105 | 0.110 | 1474. | 0.5 |
| 61 | 62.0 | 6.089 | 33.182 | 6.77 | 0.10 | 26.105 | 0.114 | 1474. | 0.5 |
| 63 | 64.0 | 6.087 | 33.181 | 6.77 | 0.10 | 26.105 | 0.118 | 1474. | 0.6 |
| 65 | 65.8 | 6.092 | 33.183 | 6.76 | 0.10 | 26.106 | 0.121 | 1474. | 0.8 |
| 68 | 68.1 | 6.092 | 33.184 | 6.77 | 0.10 | 26.106 | 0.125 | 1474. | 0.8 |
| 69 | 70.0 | 6.091 | 33.184 | 6.77 | 0.10 | 26.106 | 0.129 | 1474. | 0.9 |
| 71 | 72.0 | 6.091 | 33.184 | 6.78 | 0.10 | 26.107 | 0.133 | 1474. | 1.0 |
| 74 | 74.2 | 6.086 | 33.186 | 6.78 | 0.10 | 26.109 | 0.137 | 1474. | 1.0 |
| 75 | 76.0 | 6.087 | 33.185 | 6.78 | 0.10 | 26.108 | 0.140 | 1474. | 1.1 |
| 77 | 77.9 | 6.086 | 33.186 | 6.78 | 0.10 | 26.109 | 0.144 | 1474. | 1.2 |
| 79 | 79.9 | 6.084 | 33.187 | 6.79 | 0.10 | 26.110 | 0.148 | 1474. | 1.4 |
| 81 | 82.2 | 6.082 | 33.188 | 6.80 | 0.11 | 26.111 | 0.152 | 1474. | 1.5 |
| 83 | 83.7 | 6.082 | 33.191 | 6.79 | 0.11 | 26.113 | 0.155 | 1474. | 1.5 |
| 85 | 86.2 | 6.085 | 33.193 | 6.79 | 0.11 | 26.114 | 0.160 | 1474. | 1.4 |
| 87 | 88.0 | 6.096 | 33.198 | 6.78 | 0.10 | 26.117 | 0.163 | 1474. | 1.3 |
| 89 | 90.2 | 6.097 | 33.199 | 6.78 | 0.10 | 26.118 | 0.167 | 1474. | 1.2 |
| 91 | 91.8 | 6.095 | 33.199 | 6.79 | 0.11 | 26.118 | 0.170 | 1474. | 1.0 |
| 93 | 94.0 | 6.096 | 33.199 | 6.79 | 0.11 | 26.118 | 0.175 | 1474. | 0.8 |
| 95 | 96.1 | 6.097 | 33.200 | 6.78 | 0.11 | 26.118 | 0.179 | 1474. | 0.5 |
| 97 | 98.0 | 6.097 | 33.200 | 6.79 | 0.11 | 26.118 | 0.182 | 1474. | 0.5 |
| 99 | 100.2 | 6.098 | 33.200 | 6.79 | 0.11 | 26.118 | 0.186 | 1474. | 0.6 |

| SHIP OC | CRUISE 181 | STATION 12 | DATE 06 FEB 1987 | EST 0423 | LATITUDE 42°02.9'N | LONGITUDE 68°23.5'W | DEPTH 188 | | |
|------------|---------------|---------------|---------------------|-------------|------------------------|----------------------------|--|--------------|----------|
| DEPTH m | PRESS dbar | TEMP °C | SALIN psu | OXY ml/l | ATN m ⁻¹ | SIGT gm/cm ³ | DYHT A 10m ² /s ² | S SPD m/s | N cph |
| 101 | 102.1 | 6.098 | 33.200 | 6.79 | 0.11 | 26.119 | 0.190 | 1475. | 0.6 |
| 103 | 104.1 | 6.100 | 33.200 | 6.79 | 0.10 | 26.119 | 0.194 | 1475. | 0.6 |
| 105 | 106.0 | 6.105 | 33.202 | 6.79 | 0.11 | 26.119 | 0.197 | 1475. | 0.5 |
| 107 | 108.0 | 6.108 | 33.203 | 6.78 | 0.11 | 26.120 | 0.201 | 1475. | 0.5 |
| 109 | 109.9 | 6.108 | 33.203 | 6.80 | 0.11 | 26.120 | 0.205 | 1475. | 0.4 |
| 111 | 112.0 | 6.107 | 33.203 | 6.81 | 0.10 | 26.119 | 0.209 | 1475. | 0.4 |
| 113 | 114.0 | 6.109 | 33.203 | 6.84 | 0.11 | 26.119 | 0.212 | 1475. | 0.2 |
| 115 | 116.0 | 6.111 | 33.203 | 6.86 | 0.11 | 26.119 | 0.216 | 1475. | 0.3 |
| 117 | 118.2 | 6.113 | 33.203 | 6.89 | 0.10 | 26.119 | 0.220 | 1475. | 0.4 |
| 119 | 119.9 | 6.121 | 33.206 | 6.92 | 0.10 | 26.120 | 0.224 | 1475. | 0.5 |
| 121 | 122.2 | 6.127 | 33.206 | 6.94 | 0.10 | 26.120 | 0.228 | 1475. | 0.6 |
| 123 | 123.9 | 6.130 | 33.207 | 6.96 | 0.10 | 26.120 | 0.231 | 1475. | 0.7 |
| 125 | 125.9 | 6.131 | 33.207 | 6.97 | 0.10 | 26.120 | 0.235 | 1475. | 1.0 |
| 127 | 128.2 | 6.135 | 33.208 | 6.93 | 0.10 | 26.120 | 0.240 | 1475. | 1.3 |
| 129 | 129.9 | 6.141 | 33.210 | 6.56 | 0.10 | 26.121 | 0.243 | 1475. | 1.7 |
| 131 | 132.0 | 6.154 | 33.214 | 6.54 | 0.10 | 26.123 | 0.247 | 1475. | 2.4 |
| 133 | 133.9 | 6.198 | 33.224 | 6.46 | 0.10 | 26.125 | 0.250 | 1475. | 3.1 |
| 135 | 136.2 | 6.233 | 33.236 | 6.35 | 0.11 | 26.130 | 0.255 | 1476. | 3.5 |
| 137 | 137.7 | 6.296 | 33.255 | 6.23 | 0.13 | 26.137 | 0.257 | 1476. | 3.7 |
| 139 | 140.0 | 6.418 | 33.299 | 6.12 | 0.16 | 26.156 | 0.262 | 1477. | 3.7 |
| 141 | 141.9 | 6.489 | 33.333 | 6.06 | 0.20 | 26.173 | 0.265 | 1477. | 3.6 |
| 143 | 144.1 | 6.504 | 33.339 | 5.99 | 0.22 | 26.177 | 0.269 | 1477. | 3.3 |
| 145 | 146.0 | 6.517 | 33.348 | 5.95 | 0.23 | 26.182 | 0.273 | 1477. | 2.8 |
| 147 | 148.0 | 6.519 | 33.350 | 5.94 | 0.24 | 26.183 | 0.276 | 1477. | 2.3 |
| 149 | 149.9 | 6.519 | 33.350 | 5.94 | 0.24 | 26.183 | 0.280 | 1477. | 1.9 |
| 151 | 152.2 | 6.523 | 33.352 | 5.93 | 0.24 | 26.184 | 0.284 | 1477. | 1.9 |
| 153 | 154.0 | 6.525 | 33.356 | 5.92 | 0.25 | 26.187 | 0.288 | 1477. | 1.8 |
| 155 | 155.9 | 6.528 | 33.362 | 5.93 | 0.25 | 26.191 | 0.291 | 1477. | 1.8 |
| 157 | 158.0 | 6.531 | 33.365 | 5.94 | 0.26 | 26.193 | 0.295 | 1477. | 2.0 |
| 159 | 160.1 | 6.534 | 33.368 | 5.94 | 0.26 | 26.195 | 0.299 | 1477. | 2.0 |
| 161 | 161.9 | 6.538 | 33.370 | 5.94 | 0.27 | 26.197 | 0.302 | 1477. | 2.1 |
| 163 | 164.1 | 6.540 | 33.373 | 5.96 | 0.30 | 26.198 | 0.306 | 1478. | 2.2 |
| 165 | 166.1 | 6.553 | 33.381 | 6.00 | 0.29 | 26.203 | 0.310 | 1478. | 2.3 |
| 167 | 168.0 | 6.565 | 33.389 | 6.02 | 0.30 | 26.208 | 0.313 | 1478. | 2.4 |
| 168 | 169.8 | 6.574 | 33.394 | 6.02 | 0.30 | 26.211 | 0.317 | 1478. | 2.6 |
| 170 | 171.3 | 6.582 | 33.399 | 6.02 | 0.30 | 26.213 | 0.319 | 1478. | 3.0 |
| 171 | 172.1 | 6.590 | 33.404 | 6.02 | 0.30 | 26.216 | 0.321 | 1478. | 3.5 |
| 171 | 172.9 | 6.601 | 33.409 | 6.01 | 0.31 | 26.219 | 0.322 | 1478. | 4.2 |
| 173 | 174.0 | 6.611 | 33.414 | 6.00 | 0.31 | 26.222 | 0.324 | 1478. | 6.0 |
| 174 | 175.0 | 6.651 | 33.440 | 5.83 | 0.33 | 26.237 | 0.326 | 1478. | 7.3 |
| 174 | 175.9 | 6.692 | 33.461 | 5.59 | 0.34 | 26.248 | 0.328 | 1478. | 7.9 |
| 176 | 177.0 | 6.743 | 33.483 | 5.55 | 0.37 | 26.259 | 0.329 | 1479. | 8.3 |
| 176 | 178.0 | 6.926 | 33.606 | 5.46 | 0.41 | 26.331 | 0.331 | 1480. | 8.4 |
| 178 | 179.1 | 6.966 | 33.638 | 5.43 | 0.42 | 26.351 | 0.333 | 1480. | 8.4 |
| 179 | 180.0 | 6.992 | 33.651 | 5.39 | 0.43 | 26.358 | 0.335 | 1480. | 8.4 |
| 180 | 181.0 | 7.021 | 33.673 | 5.30 | 0.44 | 26.370 | 0.336 | 1480. | 8.4 |
| 180 | 181.7 | 7.034 | 33.681 | 5.24 | 0.45 | 26.375 | 0.337 | 1480. | 8.4 |

| SHIP OC | CRUISE 181 | STATION 13 | DATE 06 FEB 1987 | | EST 0611 | LATITUDE 42°11.5'N | LONGITUDE 68°29.2'W | DEPTH 161 | | |
|------------|---------------|---------------|---------------------|-------------|------------------------|----------------------------|--|--------------|----------|--|
| DEPTH m | PRESS dbar | TEMP °C | SALIN psu | OXY ml/l | ATN m ⁻¹ | SIGT gm/cm ³ | DYHT A 10m ² /s ² | S SPD m/s | N cph | |
| 2 | 2.1 | 6.173 | 33.248 | 6.72 | 0.15 | 26.147 | 0.000 | 1473. | -0.7 | |
| 4 | 4.1 | 6.176 | 33.248 | 6.73 | 0.15 | 26.147 | 0.004 | 1473. | -0.7 | |
| 6 | 6.1 | 6.173 | 33.248 | 6.73 | 0.15 | 26.147 | 0.007 | 1473. | -0.7 | |
| 8 | 8.0 | 6.173 | 33.248 | 6.72 | 0.15 | 26.147 | 0.011 | 1473. | -0.7 | |
| 10 | 9.9 | 6.182 | 33.247 | 6.69 | 0.15 | 26.145 | 0.015 | 1473. | -0.7 | |
| 12 | 11.9 | 6.186 | 33.247 | 6.69 | 0.15 | 26.145 | 0.018 | 1473. | -0.7 | |
| 14 | 14.0 | 6.192 | 33.248 | 6.70 | 0.15 | 26.144 | 0.022 | 1474. | -0.6 | |
| 16 | 16.2 | 6.192 | 33.248 | 6.69 | 0.15 | 26.144 | 0.026 | 1474. | -0.5 | |
| 18 | 17.8 | 6.192 | 33.248 | 6.70 | 0.15 | 26.145 | 0.029 | 1474. | -0.1 | |
| 20 | 20.2 | 6.187 | 33.248 | 6.69 | 0.15 | 26.145 | 0.034 | 1474. | 0.2 | |
| 22 | 22.1 | 6.186 | 33.247 | 6.71 | 0.15 | 26.145 | 0.037 | 1474. | 0.3 | |
| 24 | 24.2 | 6.186 | 33.247 | 6.71 | 0.15 | 26.144 | 0.041 | 1474. | 0.2 | |
| 26 | 26.2 | 6.186 | 33.247 | 6.72 | 0.15 | 26.145 | 0.045 | 1474. | -0.1 | |
| 28 | 28.1 | 6.186 | 33.247 | 6.71 | 0.15 | 26.145 | 0.048 | 1474. | -0.2 | |
| 30 | 30.0 | 6.187 | 33.247 | 6.70 | 0.15 | 26.145 | 0.052 | 1474. | -0.2 | |
| 32 | 32.2 | 6.189 | 33.247 | 6.70 | 0.15 | 26.144 | 0.056 | 1474. | 0.0 | |
| 34 | 34.2 | 6.188 | 33.247 | 6.70 | 0.15 | 26.144 | 0.060 | 1474. | 0.1 | |
| 36 | 35.9 | 6.188 | 33.247 | 6.69 | 0.15 | 26.144 | 0.063 | 1474. | 0.3 | |
| 38 | 37.9 | 6.187 | 33.247 | 6.70 | 0.15 | 26.144 | 0.067 | 1474. | 0.3 | |
| 40 | 40.2 | 6.186 | 33.247 | 6.70 | 0.15 | 26.145 | 0.071 | 1474. | 0.4 | |
| 42 | 42.0 | 6.185 | 33.247 | 6.70 | 0.15 | 26.145 | 0.074 | 1474. | 0.4 | |
| 43 | 43.8 | 6.185 | 33.247 | 6.71 | 0.15 | 26.145 | 0.078 | 1474. | 0.4 | |
| 46 | 46.0 | 6.186 | 33.247 | 6.69 | 0.15 | 26.145 | 0.082 | 1474. | 0.2 | |
| 48 | 48.1 | 6.185 | 33.247 | 6.70 | 0.15 | 26.145 | 0.086 | 1474. | -0.4 | |
| 50 | 50.0 | 6.182 | 33.247 | 6.70 | 0.15 | 26.145 | 0.089 | 1474. | -0.4 | |
| 52 | 51.9 | 6.185 | 33.247 | 6.68 | 0.15 | 26.145 | 0.093 | 1474. | -0.5 | |
| 54 | 54.0 | 6.192 | 33.247 | 6.62 | 0.15 | 26.144 | 0.097 | 1474. | -0.6 | |
| 56 | 56.0 | 6.198 | 33.248 | 6.67 | 0.15 | 26.144 | 0.100 | 1474. | -0.6 | |
| 58 | 58.1 | 6.199 | 33.248 | 6.70 | 0.15 | 26.144 | 0.104 | 1474. | -0.5 | |
| 59 | 59.8 | 6.200 | 33.248 | 6.69 | 0.15 | 26.144 | 0.108 | 1474. | -0.4 | |
| 61 | 61.8 | 6.200 | 33.248 | 6.69 | 0.15 | 26.143 | 0.111 | 1474. | -0.3 | |
| 64 | 64.0 | 6.201 | 33.248 | 6.68 | 0.15 | 26.144 | 0.115 | 1474. | -0.2 | |
| 66 | 66.2 | 6.202 | 33.248 | 6.66 | 0.15 | 26.143 | 0.119 | 1474. | -0.2 | |
| 68 | 68.1 | 6.202 | 33.248 | 6.66 | 0.15 | 26.143 | 0.123 | 1474. | -0.2 | |
| 69 | 69.8 | 6.203 | 33.248 | 6.68 | 0.15 | 26.143 | 0.126 | 1474. | -0.2 | |
| 72 | 72.1 | 6.203 | 33.248 | 6.68 | 0.15 | 26.143 | 0.130 | 1475. | -0.2 | |
| 73 | 74.0 | 6.200 | 33.248 | 6.69 | 0.15 | 26.143 | 0.134 | 1475. | 0.2 | |
| 76 | 76.2 | 6.200 | 33.248 | 6.69 | 0.15 | 26.143 | 0.138 | 1475. | 0.0 | |
| 77 | 77.9 | 6.201 | 33.247 | 6.69 | 0.15 | 26.143 | 0.141 | 1475. | 0.1 | |
| 79 | 79.9 | 6.204 | 33.248 | 6.70 | 0.15 | 26.143 | 0.145 | 1475. | 0.2 | |
| 81 | 82.1 | 6.204 | 33.249 | 6.73 | 0.15 | 26.143 | 0.149 | 1475. | 0.3 | |
| 83 | 84.0 | 6.206 | 33.248 | 6.74 | 0.15 | 26.143 | 0.153 | 1475. | 0.3 | |
| 85 | 85.9 | 6.205 | 33.249 | 6.77 | 0.15 | 26.143 | 0.156 | 1475. | 0.2 | |
| 87 | 88.1 | 6.207 | 33.249 | 6.78 | 0.15 | 26.143 | 0.160 | 1475. | 0.2 | |
| 89 | 89.9 | 6.206 | 33.249 | 6.77 | 0.15 | 26.143 | 0.164 | 1475. | 0.3 | |
| 91 | 91.8 | 6.206 | 33.249 | 6.74 | 0.15 | 26.143 | 0.167 | 1475. | 0.4 | |
| 93 | 93.8 | 6.209 | 33.249 | 6.72 | 0.15 | 26.143 | 0.171 | 1475. | 0.4 | |
| 99 | 100.2 | 6.216 | 33.251 | 6.71 | 0.15 | 26.143 | 0.183 | 1475. | 0.4 | |
| 101 | 102.1 | 6.215 | 33.250 | 6.63 | 0.15 | 26.144 | 0.187 | 1475. | 0.4 | |
| 103 | 104.1 | 6.216 | 33.251 | 6.67 | 0.15 | 26.144 | 0.190 | 1475. | 0.4 | |

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| SHIP OC | CRUISE 181 | STATION 13 | DATE 06 FEB 1987 | | EST 0611 | LATITUDE 42°11.5'N | LONGITUDE 68°29.2'W | DEPTH 161 | | |
|------------|---------------|---------------|---------------------|-------------|------------------------|----------------------------|--|--------------|----------|--|
| DEPTH m | PRESS dbar | TEMP °C | SALIN psu | OXY ml/l | ATN m ⁻¹ | SIGT gm/cm ³ | DYHT A 10m ² /s ² | S SPD m/s | N cph | |
| 105 | 106.0 | 6.216 | 33.251 | 6.72 | 0.15 | 26.144 | 0.194 | 1475. | 0.4 | |
| 108 | 108.6 | 6.214 | 33.251 | 6.76 | 0.15 | 26.144 | 0.199 | 1475. | 0.3 | |
| 109 | 109.8 | 6.214 | 33.251 | 6.79 | 0.15 | 26.144 | 0.201 | 1475. | 0.2 | |
| 112 | 112.5 | 6.217 | 33.251 | 6.44 | 0.15 | 26.144 | 0.206 | 1475. | -0.2 | |
| 113 | 114.3 | 6.215 | 33.251 | 6.43 | 0.15 | 26.144 | 0.209 | 1475. | 0.1 | |
| 115 | 115.9 | 6.212 | 33.250 | 6.42 | 0.15 | 26.144 | 0.212 | 1475. | 0.3 | |
| 117 | 118.1 | 6.214 | 33.250 | 6.41 | 0.15 | 26.143 | 0.216 | 1475. | 0.2 | |
| 119 | 120.1 | 6.223 | 33.252 | 6.38 | 0.15 | 26.143 | 0.220 | 1475. | 0.8 | |
| 121 | 122.1 | 6.236 | 33.255 | 6.31 | 0.15 | 26.145 | 0.224 | 1475. | 1.1 | |
| 123 | 124.1 | 6.242 | 33.256 | 6.26 | 0.15 | 26.145 | 0.228 | 1476. | 1.3 | |
| 125 | 125.9 | 6.269 | 33.259 | 6.24 | 0.15 | 26.144 | 0.231 | 1476. | 1.5 | |
| 127 | 128.0 | 6.296 | 33.270 | 6.24 | 0.16 | 26.149 | 0.235 | 1476. | 1.7 | |
| 129 | 130.0 | 6.321 | 33.276 | 6.23 | 0.16 | 26.150 | 0.239 | 1476. | 2.1 | |
| 131 | 131.8 | 6.334 | 33.282 | 6.23 | 0.17 | 26.153 | 0.242 | 1476. | 2.8 | |
| 133 | 133.9 | 6.350 | 33.286 | 6.22 | 0.17 | 26.155 | 0.246 | 1476. | 3.2 | |
| 135 | 136.2 | 6.369 | 33.294 | 6.18 | 0.17 | 26.158 | 0.250 | 1476. | 3.4 | |
| 137 | 138.0 | 6.425 | 33.317 | 6.03 | 0.20 | 26.170 | 0.254 | 1477. | 3.5 | |
| 139 | 140.0 | 6.513 | 33.361 | 5.97 | 0.23 | 26.193 | 0.258 | 1477. | 3.5 | |
| 141 | 142.1 | 6.536 | 33.374 | 5.96 | 0.24 | 26.200 | 0.261 | 1477. | 3.4 | |
| 143 | 144.2 | 6.539 | 33.376 | 5.95 | 0.24 | 26.201 | 0.265 | 1477. | 3.2 | |
| 145 | 146.1 | 6.544 | 33.378 | 5.95 | 0.24 | 26.202 | 0.269 | 1477. | 2.6 | |
| 146 | 147.2 | 6.546 | 33.379 | 5.96 | 0.24 | 26.202 | 0.271 | 1477. | 1.6 | |
| 147 | 147.9 | 6.547 | 33.380 | 5.95 | 0.25 | 26.203 | 0.272 | 1477. | 1.2 | |
| 148 | 149.1 | 6.550 | 33.381 | 5.95 | 0.25 | 26.204 | 0.274 | 1477. | 1.1 | |
| 149 | 149.9 | 6.551 | 33.382 | 5.95 | 0.25 | 26.204 | 0.276 | 1477. | 1.0 | |
| 150 | 151.1 | 6.552 | 33.382 | 5.94 | 0.24 | 26.204 | 0.278 | 1477. | 0.8 | |
| 151 | 151.8 | 6.551 | 33.382 | 5.94 | 0.24 | 26.204 | 0.279 | 1477. | 0.8 | |
| 152 | 153.0 | 6.551 | 33.382 | 5.93 | 0.24 | 26.204 | 0.281 | 1477. | 0.8 | |
| 153 | 153.9 | 6.552 | 33.382 | 5.94 | 0.24 | 26.204 | 0.283 | 1477. | 0.8 | |
| 154 | 155.1 | 6.553 | 33.382 | 5.94 | 0.24 | 26.204 | 0.285 | 1477. | 0.8 | |
| 155 | 155.9 | 6.555 | 33.384 | 5.93 | 0.25 | 26.205 | 0.287 | 1477. | 0.8 | |

| SHIP OC | CRUISE 181 | STATION 14 | DATE 06 FEB 1987 | EST 0726 | LATITUDE 42°16.9'N | LONGITUDE 68°32.1'W | DEPTH 180 | SHIP OC | CRUISE 181 | STATION 14 | DATE 06 FEB 1987 | EST 0726 | LATITUDE 42°16.9'N | LONGITUDE 68°32.1'W | DEPTH 180 | | | | |
|---------|------------|------------|------------------|----------|---------------------|-------------------------|---|-----------|------------|------------|------------------|----------|--------------------|---------------------|---------------------|-------------------------|---|-----------|-------|
| DEPTH m | PRESS dbar | TEMP °C | SALIN psu | OXY ml/l | ATN m ⁻¹ | SIGT gm/cm ³ | DYHT A 10m ² /s ² | S SPD m/s | N cph | DEPTH m | PRESS dbar | TEMP °C | SALIN psu | OXY ml/l | ATN m ⁻¹ | SIGT gm/cm ³ | DYHT A 10m ² /s ² | S SPD m/s | N cph |
| 3 | 2.5 | 6.115 | 33.241 | 6.72 | 0.11 | 26.148 | 0.000 | 1473. | -0.4 | 101 | 102.0 | 6.234 | 33.267 | 6.28 | 0.13 | 26.154 | 0.185 | 1475. | 2.3 |
| 4 | 4.1 | 6.125 | 33.241 | 6.71 | 0.11 | 26.147 | 0.003 | 1473. | -0.4 | 103 | 104.0 | 6.281 | 33.287 | 6.25 | 0.14 | 26.164 | 0.189 | 1475. | 2.6 |
| 6 | 6.0 | 6.126 | 33.241 | 6.74 | 0.11 | 26.147 | 0.006 | 1473. | -0.4 | 105 | 105.9 | 6.292 | 33.292 | 6.24 | 0.14 | 26.166 | 0.193 | 1475. | 2.9 |
| 8 | 7.8 | 6.124 | 33.241 | 6.73 | 0.11 | 26.147 | 0.010 | 1473. | -0.4 | 107 | 108.0 | 6.308 | 33.300 | 6.19 | 0.15 | 26.171 | 0.197 | 1476. | 3.1 |
| 10 | 9.9 | 6.124 | 33.240 | 6.74 | 0.12 | 26.147 | 0.014 | 1473. | -0.4 | 109 | 110.0 | 6.331 | 33.308 | 6.14 | 0.15 | 26.174 | 0.200 | 1476. | 3.2 |
| 12 | 11.8 | 6.126 | 33.240 | 6.74 | 0.11 | 26.147 | 0.017 | 1473. | -0.2 | 111 | 112.2 | 6.384 | 33.329 | 6.10 | 0.17 | 26.184 | 0.204 | 1476. | 3.2 |
| 14 | 14.1 | 6.128 | 33.241 | 6.74 | 0.11 | 26.147 | 0.021 | 1473. | -0.1 | 113 | 113.9 | 6.415 | 33.346 | 6.09 | 0.19 | 26.193 | 0.207 | 1476. | 3.1 |
| 16 | 16.1 | 6.125 | 33.240 | 6.74 | 0.12 | 26.147 | 0.025 | 1473. | 0.1 | 115 | 116.0 | 6.443 | 33.364 | 6.07 | 0.20 | 26.204 | 0.211 | 1476. | 3.0 |
| 18 | 17.7 | 6.125 | 33.240 | 6.72 | 0.11 | 26.147 | 0.028 | 1473. | 0.2 | 117 | 118.2 | 6.450 | 33.368 | 6.04 | 0.20 | 26.206 | 0.215 | 1476. | 2.8 |
| 20 | 20.1 | 6.126 | 33.241 | 6.74 | 0.11 | 26.147 | 0.033 | 1473. | 0.3 | 119 | 120.0 | 6.457 | 33.372 | 6.05 | 0.21 | 26.208 | 0.218 | 1476. | 2.5 |
| 22 | 21.9 | 6.127 | 33.241 | 6.75 | 0.11 | 26.147 | 0.036 | 1473. | 0.3 | 121 | 122.2 | 6.464 | 33.376 | 6.03 | 0.21 | 26.211 | 0.222 | 1477. | 2.2 |
| 24 | 23.7 | 6.128 | 33.241 | 6.75 | 0.11 | 26.147 | 0.039 | 1473. | 0.3 | 123 | 124.1 | 6.472 | 33.381 | 6.00 | 0.22 | 26.214 | 0.226 | 1477. | 2.0 |
| 26 | 26.0 | 6.128 | 33.241 | 6.74 | 0.11 | 26.147 | 0.044 | 1473. | 0.3 | 125 | 126.0 | 6.477 | 33.385 | 5.99 | 0.23 | 26.216 | 0.229 | 1477. | 1.9 |
| 28 | 28.2 | 6.126 | 33.241 | 6.73 | 0.11 | 26.147 | 0.048 | 1473. | 0.3 | 127 | 128.0 | 6.485 | 33.390 | 5.99 | 0.24 | 26.219 | 0.233 | 1477. | 1.7 |
| 30 | 30.1 | 6.123 | 33.240 | 6.72 | 0.11 | 26.147 | 0.051 | 1473. | 0.1 | 129 | 129.9 | 6.489 | 33.393 | 5.98 | 0.25 | 26.221 | 0.236 | 1477. | 1.6 |
| 32 | 31.9 | 6.122 | 33.240 | 6.73 | 0.11 | 26.147 | 0.055 | 1474. | -0.1 | 131 | 131.8 | 6.490 | 33.394 | 5.97 | 0.25 | 26.222 | 0.240 | 1477. | 1.3 |
| 34 | 33.9 | 6.126 | 33.240 | 6.74 | 0.11 | 26.147 | 0.058 | 1474. | -0.2 | 133 | 136.1 | 6.491 | 33.395 | 5.97 | 0.25 | 26.223 | 0.244 | 1477. | 1.1 |
| 36 | 36.1 | 6.127 | 33.241 | 6.74 | 0.11 | 26.147 | 0.062 | 1474. | -0.3 | 135 | 135.8 | 6.491 | 33.395 | 5.98 | 0.26 | 26.222 | 0.247 | 1477. | 0.9 |
| 38 | 38.1 | 6.129 | 33.241 | 6.73 | 0.11 | 26.147 | 0.066 | 1474. | -0.2 | 137 | 138.0 | 6.493 | 33.396 | 5.98 | 0.26 | 26.223 | 0.251 | 1477. | 0.7 |
| 39 | 39.8 | 6.130 | 33.241 | 6.70 | 0.11 | 26.147 | 0.069 | 1474. | -0.2 | 139 | 140.2 | 6.493 | 33.397 | 5.96 | 0.27 | 26.223 | 0.255 | 1477. | 0.6 |
| 42 | 42.0 | 6.129 | 33.241 | 6.70 | 0.11 | 26.147 | 0.073 | 1474. | -0.2 | 141 | 142.3 | 6.494 | 33.397 | 5.95 | 0.27 | 26.223 | 0.259 | 1477. | 0.5 |
| 44 | 44.0 | 6.129 | 33.241 | 6.72 | 0.11 | 26.147 | 0.077 | 1474. | -0.3 | 143 | 143.9 | 6.494 | 33.397 | 5.98 | 0.27 | 26.223 | 0.262 | 1477. | 0.4 |
| 46 | 46.0 | 6.127 | 33.241 | 6.73 | 0.11 | 26.147 | 0.081 | 1474. | -0.3 | 145 | 145.9 | 6.494 | 33.397 | 5.97 | 0.27 | 26.223 | 0.265 | 1477. | 0.3 |
| 48 | 48.2 | 6.130 | 33.240 | 6.71 | 0.11 | 26.146 | 0.085 | 1474. | -0.3 | 147 | 148.1 | 6.494 | 33.397 | 5.96 | 0.27 | 26.224 | 0.269 | 1477. | 0.2 |
| 50 | 50.0 | 6.131 | 33.241 | 6.72 | 0.11 | 26.146 | 0.088 | 1474. | -0.3 | 149 | 149.9 | 6.494 | 33.397 | 5.98 | 0.27 | 26.223 | 0.272 | 1477. | 0.2 |
| 51 | 51.8 | 6.131 | 33.240 | 6.70 | 0.11 | 26.146 | 0.092 | 1474. | -0.2 | 151 | 151.8 | 6.493 | 33.397 | 5.97 | 0.27 | 26.223 | 0.276 | 1477. | 0.2 |
| 53 | 53.9 | 6.135 | 33.241 | 6.70 | 0.11 | 26.146 | 0.096 | 1474. | -0.2 | 153 | 154.1 | 6.493 | 33.397 | 5.96 | 0.28 | 26.223 | 0.280 | 1477. | 0.2 |
| 55 | 55.8 | 6.135 | 33.241 | 6.73 | 0.11 | 26.146 | 0.099 | 1474. | 0.2 | 155 | 156.0 | 6.493 | 33.397 | 5.97 | 0.28 | 26.223 | 0.283 | 1477. | 0.2 |
| 58 | 58.0 | 6.134 | 33.241 | 6.71 | 0.11 | 26.146 | 0.103 | 1474. | 0.1 | 157 | 158.1 | 6.494 | 33.397 | 5.97 | 0.28 | 26.224 | 0.287 | 1477. | 0.3 |
| 60 | 60.2 | 6.135 | 33.241 | 6.69 | 0.11 | 26.147 | 0.107 | 1474. | 0.0 | 159 | 160.1 | 6.494 | 33.397 | 5.96 | 0.28 | 26.223 | 0.291 | 1477. | 0.3 |
| 61 | 61.9 | 6.135 | 33.241 | 6.71 | 0.11 | 26.146 | 0.111 | 1474. | 0.1 | 160 | 161.8 | 6.494 | 33.397 | 5.95 | 0.28 | 26.224 | 0.294 | 1477. | 0.1 |
| 63 | 64.0 | 6.136 | 33.241 | 6.73 | 0.11 | 26.146 | 0.114 | 1474. | -0.1 | 163 | 164.2 | 6.494 | 33.397 | 5.96 | 0.28 | 26.224 | 0.298 | 1477. | 0.2 |
| 65 | 66.0 | 6.136 | 33.241 | 6.73 | 0.11 | 26.146 | 0.118 | 1474. | -0.3 | 165 | 165.9 | 6.494 | 33.397 | 5.97 | 0.28 | 26.224 | 0.301 | 1477. | -0.1 |
| 68 | 68.3 | 6.139 | 33.242 | 6.71 | 0.11 | 26.146 | 0.123 | 1474. | -0.2 | 166 | 167.2 | 6.494 | 33.397 | 5.97 | 0.29 | 26.223 | 0.304 | 1477. | 0.1 |
| 69 | 70.0 | 6.140 | 33.242 | 6.72 | 0.11 | 26.146 | 0.126 | 1474. | 0.1 | 167 | 168.1 | 6.494 | 33.397 | 5.97 | 0.28 | 26.223 | 0.305 | 1477. | -0.2 |
| 71 | 71.9 | 6.141 | 33.242 | 6.73 | 0.11 | 26.146 | 0.129 | 1474. | 0.3 | 167 | 168.9 | 6.494 | 33.397 | 5.97 | 0.28 | 26.224 | 0.307 | 1477. | 0.2 |
| 73 | 73.8 | 6.139 | 33.241 | 6.73 | 0.11 | 26.146 | 0.133 | 1474. | 0.3 | 169 | 170.0 | 6.494 | 33.397 | 5.97 | 0.28 | 26.223 | 0.309 | 1477. | 0.3 |
| 75 | 75.9 | 6.146 | 33.243 | 6.74 | 0.12 | 26.146 | 0.137 | 1474. | 0.2 | 170 | 171.0 | 6.494 | 33.397 | 5.96 | 0.28 | 26.224 | 0.310 | 1477. | 0.2 |
| 78 | 78.2 | 6.151 | 33.243 | 6.76 | 0.12 | 26.146 | 0.141 | 1474. | 0.2 | 171 | 172.0 | 6.494 | 33.397 | 5.95 | 0.29 | 26.223 | 0.312 | 1477. | 0.3 |
| 79 | 80.0 | 6.151 | 33.245 | 6.79 | 0.12 | 26.147 | 0.144 | 1474. | -0.2 | 172 | 173.1 | 6.495 | 33.397 | 5.95 | 0.28 | 26.224 | 0.314 | 1478. | 0.2 |
| 81 | 81.8 | 6.148 | 33.243 | 6.81 | 0.11 | 26.146 | 0.148 | 1474. | 0.3 | 172 | 173.9 | 6.494 | 33.397 | 5.96 | 0.28 | 26.224 | 0.316 | 1478. | 0.2 |
| 83 | 84.0 | 6.142 | 33.242 | 6.81 | 0.12 | 26.146 | 0.152 | 1474. | 0.5 | 174 | 175.0 | 6.495 | 33.397 | 5.96 | 0.28 | 26.223 | 0.318 | 1478. | 0.2 |
| 85 | 86.1 | 6.149 | 33.243 | 6.83 | 0.12 | 26.146 | 0.156 | 1475. | 0.7 | 175 | 176.0 | 6.495 | 33.397 | 5.96 | 0.28 | 26.223 | 0.320 | 1478. | 0.2 |
| 87 | 87.8 | 6.153 | 33.243 | 6.81 | 0.12 | 26.145 | 0.159 | 1475. | 0.9 | 175 | 176.6 | 6.495 | 33.397 | 5.98 | 0.28 | 26.224 | 0.321 | 1478. | 0.2 |
| 89 | 89.8 | 6.172 | 33.248 | 6.44 | 0.12 | 26.147 | 0.163 | 1475. | 1.0 | | | | | | | | | | |
| 91 | 92.2 | 6.189 | 33.253 | 6.44 | 0.12 | 26.149 | 0.167 | 1475. | 1.1 | | | | | | | | | | |
| 93 | 94.0 | 6.195 | 33.255 | 6.43 | 0.12 | 26.149 | 0.170 | 1475. | 1.2 | | | | | | | | | | |
| 95 | 96.1 | 6.207 | 33.257 | 6.41 | 0.12 | 26.150 | 0.174 | 1475. | 1.6 | | | | | | | | | | |
| 97 | 98.1 | 6.211 | 33.258 | 6.37 | 0.12 | 26.150 | 0.178 | 1475. | 1.9 | | | | | | | | | | |
| 99 | 100.1 | 6.222 | 33.262 | 6.33 | 0.12 | 26.152 | 0.182 | 1475. | 2.1 | | | | | | | | | | |

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| SHIP OC | CRUISE 181 | STATION 15 | DATE 06 FEB 1987 | | EST 0823 | LATITUDE 42°20.4'N | LONGITUDE 68°34.6'W | DEPTH 170 | | |
|------------|---------------|---------------|---------------------|-------------|------------------------|----------------------------|--|--------------|----------|--|
| DEPTH m | PRESS dbar | TEMP °C | SALIN psu | OXY ml/l | ATN m ⁻¹ | SIGT gm/cm ³ | DYHT A 10m ² /s ² | S SPD m/s | N cph | |
| 2 | 1.9 | 6.149 | 33.245 | 6.73 | 0.12 | 26.148 | 0.000 | 1473. | 0.3 | |
| 4 | 3.8 | 6.151 | 33.245 | 6.73 | 0.12 | 26.148 | 0.004 | 1473. | 0.3 | |
| 6 | 5.9 | 6.151 | 33.245 | 6.75 | 0.13 | 26.147 | 0.008 | 1473. | 0.3 | |
| 8 | 7.9 | 6.146 | 33.245 | 6.75 | 0.13 | 26.148 | 0.011 | 1473. | 0.3 | |
| 10 | 10.1 | 6.146 | 33.245 | 6.75 | 0.12 | 26.148 | 0.015 | 1473. | 0.3 | |
| 12 | 12.2 | 6.149 | 33.245 | 6.75 | 0.12 | 26.148 | 0.019 | 1473. | 0.1 | |
| 14 | 13.9 | 6.151 | 33.245 | 6.75 | 0.12 | 26.147 | 0.022 | 1473. | -0.3 | |
| 16 | 16.0 | 6.152 | 33.246 | 6.75 | 0.13 | 26.148 | 0.026 | 1473. | -0.5 | |
| 18 | 18.2 | 6.151 | 33.246 | 6.75 | 0.12 | 26.148 | 0.030 | 1473. | -0.4 | |
| 20 | 20.0 | 6.154 | 33.246 | 6.74 | 0.12 | 26.147 | 0.034 | 1473. | -0.4 | |
| 22 | 21.9 | 6.155 | 33.245 | 6.74 | 0.12 | 26.147 | 0.037 | 1473. | -0.4 | |
| 24 | 24.0 | 6.156 | 33.245 | 6.73 | 0.12 | 26.147 | 0.041 | 1474. | -0.4 | |
| 26 | 26.1 | 6.155 | 33.245 | 6.74 | 0.12 | 26.147 | 0.045 | 1474. | -0.1 | |
| 28 | 28.0 | 6.156 | 33.245 | 6.73 | 0.12 | 26.147 | 0.049 | 1474. | 0.4 | |
| 30 | 30.0 | 6.156 | 33.245 | 6.73 | 0.12 | 26.147 | 0.052 | 1474. | 0.5 | |
| 32 | 32.0 | 6.153 | 33.245 | 6.73 | 0.12 | 26.147 | 0.056 | 1474. | 0.6 | |
| 34 | 34.0 | 6.149 | 33.245 | 6.73 | 0.12 | 26.148 | 0.060 | 1474. | 0.6 | |
| 36 | 36.0 | 6.150 | 33.245 | 6.73 | 0.12 | 26.148 | 0.063 | 1474. | 0.6 | |
| 38 | 38.0 | 6.147 | 33.245 | 6.73 | 0.12 | 26.148 | 0.067 | 1474. | 0.6 | |
| 40 | 40.0 | 6.145 | 33.246 | 6.74 | 0.12 | 26.148 | 0.071 | 1474. | 0.5 | |
| 42 | 41.9 | 6.145 | 33.246 | 6.74 | 0.12 | 26.149 | 0.074 | 1474. | 0.4 | |
| 44 | 44.0 | 6.145 | 33.245 | 6.73 | 0.12 | 26.148 | 0.078 | 1474. | 0.4 | |
| 46 | 46.0 | 6.145 | 33.245 | 6.73 | 0.12 | 26.148 | 0.082 | 1474. | 0.3 | |
| 48 | 48.1 | 6.143 | 33.245 | 6.72 | 0.12 | 26.149 | 0.086 | 1474. | 0.4 | |
| 50 | 50.4 | 6.144 | 33.245 | 6.71 | 0.12 | 26.149 | 0.090 | 1474. | 0.4 | |
| 52 | 52.0 | 6.145 | 33.245 | 6.72 | 0.12 | 26.148 | 0.093 | 1474. | 0.4 | |
| 54 | 54.0 | 6.142 | 33.245 | 6.73 | 0.12 | 26.149 | 0.097 | 1474. | 0.4 | |
| 56 | 56.0 | 6.139 | 33.245 | 6.74 | 0.12 | 26.149 | 0.101 | 1474. | 0.5 | |
| 57 | 57.9 | 6.140 | 33.245 | 6.74 | 0.12 | 26.149 | 0.104 | 1474. | 0.6 | |
| 59 | 60.0 | 6.140 | 33.245 | 6.74 | 0.12 | 26.149 | 0.108 | 1474. | 0.6 | |
| 62 | 62.0 | 6.139 | 33.246 | 6.75 | 0.12 | 26.149 | 0.112 | 1474. | 0.7 | |
| 63 | 63.9 | 6.135 | 33.245 | 6.75 | 0.12 | 26.150 | 0.115 | 1474. | 0.7 | |
| 65 | 65.9 | 6.135 | 33.246 | 6.75 | 0.12 | 26.150 | 0.119 | 1474. | 0.8 | |
| 68 | 68.2 | 6.132 | 33.246 | 6.74 | 0.12 | 26.150 | 0.123 | 1474. | 0.8 | |
| 69 | 69.8 | 6.128 | 33.246 | 6.73 | 0.12 | 26.151 | 0.126 | 1474. | 0.8 | |
| 71 | 72.0 | 6.130 | 33.245 | 6.72 | 0.12 | 26.150 | 0.130 | 1474. | 0.8 | |
| 73 | 74.0 | 6.118 | 33.246 | 6.73 | 0.12 | 26.152 | 0.134 | 1474. | 0.7 | |
| 75 | 76.0 | 6.115 | 33.246 | 6.75 | 0.12 | 26.152 | 0.138 | 1474. | 0.6 | |
| 77 | 78.0 | 6.116 | 33.246 | 6.76 | 0.12 | 26.152 | 0.142 | 1474. | 0.5 | |
| 79 | 80.0 | 6.118 | 33.246 | 6.76 | 0.12 | 26.152 | 0.145 | 1474. | 0.6 | |
| 81 | 81.9 | 6.118 | 33.246 | 6.76 | 0.12 | 26.152 | 0.149 | 1474. | 0.5 | |
| 83 | 83.9 | 6.117 | 33.246 | 6.75 | 0.12 | 26.152 | 0.153 | 1474. | 0.5 | |
| 85 | 86.1 | 6.112 | 33.245 | 6.74 | 0.11 | 26.152 | 0.157 | 1474. | 0.5 | |
| 87 | 87.9 | 6.105 | 33.245 | 6.74 | 0.11 | 26.153 | 0.160 | 1474. | 0.5 | |
| 89 | 90.0 | 6.106 | 33.245 | 6.75 | 0.11 | 26.153 | 0.164 | 1474. | 0.4 | |
| 91 | 92.0 | 6.108 | 33.245 | 6.75 | 0.11 | 26.153 | 0.168 | 1474. | 0.4 | |
| 93 | 94.0 | 6.110 | 33.246 | 6.75 | 0.11 | 26.153 | 0.171 | 1474. | 0.4 | |
| 95 | 96.0 | 6.110 | 33.245 | 6.75 | 0.11 | 26.153 | 0.175 | 1475. | 0.3 | |
| 97 | 98.1 | 6.110 | 33.245 | 6.75 | 0.11 | 26.153 | 0.179 | 1475. | 0.4 | |
| 99 | 100.2 | 6.110 | 33.246 | 6.75 | 0.11 | 26.153 | 0.183 | 1475. | 0.5 | |

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| SHIP OC | CRUISE 181 | STATION 15 | DATE 06 FEB 1987 | | EST 0823 | LATITUDE 42°20.4'N | LONGITUDE 68°34.6'W | DEPTH 170 | | |
|------------|---------------|---------------|---------------------|-------------|------------------------|----------------------------|--|--------------|----------|--|
| DEPTH m | PRESS dbar | TEMP °C | SALIN psu | OXY ml/l | ATN m ⁻¹ | SIGT gm/cm ³ | DYHT A 10m ² /s ² | S SPD m/s | N cph | |
| 101 | 101.9 | 6.101 | 33.245 | 6.84 | 0.11 | 26.154 | 0.186 | 1475. | 0.5 | |
| 103 | 103.8 | 6.099 | 33.245 | 6.88 | 0.11 | 26.154 | 0.190 | 1475. | 0.6 | |
| 105 | 106.0 | 6.098 | 33.245 | 6.89 | 0.11 | 26.154 | 0.194 | 1475. | 0.7 | |
| 107 | 107.9 | 6.097 | 33.245 | 6.89 | 0.11 | 26.154 | 0.197 | 1475. | 0.7 | |
| 109 | 110.0 | 6.097 | 33.244 | 6.89 | 0.11 | 26.154 | 0.201 | 1475. | 0.6 | |
| 111 | 112.0 | 6.097 | 33.246 | 6.90 | 0.11 | 26.155 | 0.205 | 1475. | 0.4 | |
| 113 | 113.9 | 6.097 | 33.246 | 6.90 | 0.11 | 26.155 | 0.208 | 1475. | -1.2 | |
| 115 | 116.1 | 6.096 | 33.246 | 6.90 | 0.11 | 26.155 | 0.213 | 1475. | -1.1 | |
| 117 | 118.1 | 6.099 | 33.247 | 6.90 | 0.11 | 26.155 | 0.216 | 1475. | -0.8 | |
| 119 | 119.9 | 6.097 | 33.244 | 6.90 | 0.11 | 26.153 | 0.220 | 1475. | -0.5 | |
| 121 | 122.0 | 6.099 | 33.227 | 6.76 | 0.11 | 26.140 | 0.224 | 1475. | 0.6 | |
| 123 | 124.0 | 6.104 | 33.246 | 6.51 | 0.11 | 26.154 | 0.227 | 1475. | 0.9 | |
| 125 | 126.0 | 6.106 | 33.248 | 6.49 | 0.11 | 26.155 | 0.231 | 1475. | 1.2 | |
| 127 | 128.0 | 6.108 | 33.249 | 6.48 | 0.11 | 26.156 | 0.235 | 1475. | 1.5 | |
| 129 | 130.0 | 6.124 | 33.253 | 6.46 | 0.11 | 26.157 | 0.239 | 1475. | 1.8 | |
| 131 | 131.9 | 6.130 | 33.252 | 6.44 | 0.12 | 26.155 | 0.242 | 1475. | 1.5 | |
| 133 | 134.0 | 6.120 | 33.252 | 6.43 | 0.12 | 26.157 | 0.246 | 1475. | 1.8 | |
| 135 | 136.1 | 6.162 | 33.265 | 6.40 | 0.12 | 26.161 | 0.250 | 1475. | 2.3 | |
| 137 | 138.0 | 6.215 | 33.275 | 6.37 | 0.12 | 26.163 | 0.253 | 1476. | 2.5 | |
| 139 | 140.1 | 6.245 | 33.285 | 6.34 | 0.13 | 26.167 | 0.257 | 1476. | 2.9 | |
| 141 | 141.9 | 6.275 | 33.298 | 6.22 | 0.14 | 26.174 | 0.261 | 1476. | 3.4 | |
| 143 | 144.0 | 6.376 | 33.332 | 6.14 | 0.16 | 26.187 | 0.265 | 1476. | 3.7 | |
| 145 | 146.0 | 6.373 | 33.329 | 6.12 | 0.19 | 26.185 | 0.268 | 1476. | 3.9 | |
| 147 | 148.1 | 6.466 | 33.362 | 6.09 | 0.21 | 26.199 | 0.272 | 1477. | 3.9 | |
| 149 | 150.0 | 6.543 | 33.403 | 6.06 | 0.23 | 26.222 | 0.276 | 1477. | 4.0 | |
| 151 | 151.9 | 6.557 | 33.418 | 6.06 | 0.23 | 26.232 | 0.279 | 1477. | 3.9 | |
| 153 | 154.0 | 6.557 | 33.420 | 6.06 | 0.24 | 26.234 | 0.283 | 1477. | 3.8 | |
| 154 | 155.3 | 6.557 | 33.424 | 6.06 | 0.24 | 26.236 | 0.285 | 1477. | 3.3 | |
| 155 | 156.1 | 6.553 | 33.430 | 6.06 | 0.24 | 26.241 | 0.286 | 1477. | 2.5 | |
| 156 | 157.0 | 6.554 | 33.431 | 6.05 | 0.24 | 26.242 | 0.288 | 1478. | 2.1 | |
| 157 | 157.9 | 6.554 | 33.430 | 6.05 | 0.24 | 26.242 | 0.290 | 1478. | 2.0 | |
| 158 | 159.0 | 6.554 | 33.431 | 6.05 | 0.25 | 26.242 | 0.292 | 1478. | 1.9 | |
| 159 | 160.1 | 6.554 | 33.431 | 6.04 | 0.25 | 26.242 | 0.294 | 1478. | 1.7 | |
| 160 | 161.0 | 6.555 | 33.433 | 5.92 | 0.24 | 26.244 | 0.295 | 1478. | 1.7 | |
| 161 | 162.1 | 6.555 | 33.436 | 5.67 | 0.24 | 26.246 | 0.297 | 1478. | 1.8 | |
| 162 | 163.0 | 6.555 | 33.438 | 5.65 | 0.25 | 26.248 | 0.299 | 1478. | 1.8 | |
| 163 | 164.0 | 6.554 | 33.438 | 5.65 | 0.25 | 26.248 | 0.301 | 1478. | 1.8 | |
| 164 | 165.1 | 6.555 | 33.438 | 5.63 | 0.25 | 26.248 | 0.303 | 1478. | 1.8 | |
| 164 | 165.5 | 6.555 | 33.438 | 5.49 | 0.24 | 26.248 | 0.303 | 1478. | 1.8 | |

| SHIP OC | CRUISE 181 | STATION 16 | DATE 06 FEB 1987 | | EST 0923 | LATITUDE 42°25.0'N | LONGITUDE 68°37.7'W | DEPTH 200 | | |
|------------|---------------|---------------|---------------------|-------------|------------------------|----------------------------|--|--------------|----------|--|
| DEPTH m | PRESS dbar | TEMP °C | SALIN psu | OXY ml/l | ATN m ⁻¹ | SIGT gm/cm ³ | DYHT A 10m ² /s ² | S SPD m/s | N cph | |
| 3 | 2.6 | 6.080 | 33.233 | | 0.11 | 26.146 | 0.000 | 1473. | -0.2 | |
| 4 | 3.9 | 6.083 | 33.233 | | 0.11 | 26.146 | 0.002 | 1473. | -0.2 | |
| 6 | 6.1 | 6.088 | 33.233 | | 0.11 | 26.146 | 0.007 | 1473. | -0.2 | |
| 8 | 8.0 | 6.090 | 33.233 | | 0.11 | 26.146 | 0.010 | 1473. | -0.2 | |
| 10 | 10.0 | 6.090 | 33.233 | | 0.11 | 26.146 | 0.014 | 1473. | -0.2 | |
| 12 | 12.1 | 6.089 | 33.233 | | 0.11 | 26.145 | 0.018 | 1473. | 0.2 | |
| 14 | 14.0 | 6.090 | 33.233 | | 0.11 | 26.146 | 0.021 | 1473. | 0.4 | |
| 16 | 16.1 | 6.090 | 33.233 | | 0.11 | 26.146 | 0.025 | 1473. | 0.4 | |
| 18 | 17.9 | 6.090 | 33.234 | | 0.11 | 26.146 | 0.028 | 1473. | 0.3 | |
| 20 | 20.1 | 6.089 | 33.234 | | 0.11 | 26.146 | 0.033 | 1473. | 0.3 | |
| 22 | 22.0 | 6.089 | 33.234 | | 0.11 | 26.146 | 0.036 | 1473. | -0.3 | |
| 24 | 24.1 | 6.090 | 33.234 | | 0.11 | 26.146 | 0.040 | 1473. | -0.3 | |
| 26 | 26.0 | 6.092 | 33.233 | | 0.11 | 26.146 | 0.044 | 1473. | -0.4 | |
| 28 | 28.0 | 6.092 | 33.234 | | 0.11 | 26.146 | 0.047 | 1473. | -0.3 | |
| 30 | 30.0 | 6.093 | 33.233 | | 0.11 | 26.145 | 0.051 | 1473. | -0.3 | |
| 32 | 32.0 | 6.092 | 33.233 | | 0.11 | 26.145 | 0.055 | 1473. | -0.2 | |
| 34 | 34.0 | 6.093 | 33.233 | | 0.11 | 26.145 | 0.058 | 1473. | 0.2 | |
| 36 | 36.1 | 6.093 | 33.234 | | 0.11 | 26.146 | 0.062 | 1473. | 0.2 | |
| 38 | 37.9 | 6.092 | 33.233 | | 0.11 | 26.145 | 0.066 | 1473. | 0.3 | |
| 40 | 40.0 | 6.093 | 33.233 | | 0.11 | 26.145 | 0.070 | 1474. | 0.3 | |
| 42 | 42.1 | 6.093 | 33.233 | | 0.11 | 26.145 | 0.074 | 1474. | 0.2 | |
| 44 | 44.1 | 6.092 | 33.233 | | 0.11 | 26.146 | 0.077 | 1474. | -0.1 | |
| 46 | 45.9 | 6.091 | 33.233 | | 0.11 | 26.146 | 0.081 | 1474. | 0.2 | |
| 48 | 48.0 | 6.091 | 33.234 | | 0.11 | 26.146 | 0.085 | 1474. | 0.2 | |
| 50 | 50.1 | 6.092 | 33.233 | | 0.11 | 26.145 | 0.088 | 1474. | 0.1 | |
| 52 | 51.9 | 6.093 | 33.233 | | 0.11 | 26.145 | 0.092 | 1474. | -0.1 | |
| 54 | 54.0 | 6.093 | 33.234 | | 0.11 | 26.146 | 0.096 | 1474. | -0.2 | |
| 56 | 56.1 | 6.096 | 33.234 | | 0.11 | 26.146 | 0.100 | 1474. | -0.2 | |
| 58 | 58.0 | 6.096 | 33.234 | | 0.11 | 26.145 | 0.103 | 1474. | 0.1 | |
| 59 | 60.0 | 6.095 | 33.234 | | 0.11 | 26.145 | 0.107 | 1474. | 0.2 | |
| 61 | 62.0 | 6.095 | 33.233 | | 0.11 | 26.145 | 0.111 | 1474. | 0.1 | |
| 63 | 64.0 | 6.096 | 33.234 | | 0.11 | 26.145 | 0.114 | 1474. | 0.1 | |
| 66 | 66.1 | 6.096 | 33.234 | | 0.11 | 26.146 | 0.118 | 1474. | 0.3 | |
| 67 | 68.0 | 6.096 | 33.234 | | 0.11 | 26.146 | 0.122 | 1474. | 0.3 | |
| 69 | 70.0 | 6.096 | 33.234 | | 0.11 | 26.145 | 0.126 | 1474. | 0.3 | |
| 71 | 72.0 | 6.097 | 33.234 | | 0.11 | 26.145 | 0.129 | 1474. | 0.2 | |
| 73 | 74.0 | 6.097 | 33.234 | | 0.11 | 26.145 | 0.133 | 1474. | 0.3 | |
| 76 | 76.2 | 6.099 | 33.235 | | 0.11 | 26.146 | 0.137 | 1474. | 0.4 | |
| 77 | 77.9 | 6.099 | 33.235 | | 0.11 | 26.146 | 0.140 | 1474. | 0.5 | |
| 79 | 80.1 | 6.100 | 33.235 | | 0.11 | 26.145 | 0.144 | 1474. | 0.4 | |
| 81 | 81.8 | 6.094 | 33.234 | | 0.11 | 26.146 | 0.148 | 1474. | 0.3 | |
| 83 | 84.2 | 6.090 | 33.234 | | 0.11 | 26.146 | 0.152 | 1474. | 0.3 | |
| 85 | 86.0 | 6.091 | 33.234 | | 0.11 | 26.146 | 0.155 | 1474. | 0.2 | |
| 87 | 88.0 | 6.092 | 33.234 | | 0.11 | 26.146 | 0.159 | 1474. | -0.1 | |
| 89 | 90.0 | 6.092 | 33.234 | | 0.11 | 26.146 | 0.163 | 1474. | -0.3 | |
| 91 | 92.0 | 6.092 | 33.234 | | 0.11 | 26.146 | 0.167 | 1474. | -0.3 | |
| 93 | 93.9 | 6.092 | 33.233 | | 0.11 | 26.145 | 0.170 | 1474. | -0.3 | |
| 95 | 95.9 | 6.092 | 33.234 | | 0.11 | 26.146 | 0.174 | 1474. | -0.3 | |
| 97 | 98.2 | 6.093 | 33.234 | | 0.11 | 26.146 | 0.178 | 1474. | -0.3 | |
| 99 | 99.9 | 6.094 | 33.233 | | 0.11 | 26.145 | 0.181 | 1475. | -0.2 | |

| SHIP OC | CRUISE 181 | STATION 16 | DATE 06 FEB 1987 | | EST 0923 | LATITUDE 42°25.0'N | LONGITUDE 68°37.7'W | DEPTH 200 | | |
|------------|---------------|---------------|---------------------|-------------|------------------------|----------------------------|--|--------------|----------|--|
| DEPTH m | PRESS dbar | TEMP °C | SALIN psu | OXY ml/l | ATN m ⁻¹ | SIGT gm/cm ³ | DYHT A 10m ² /s ² | S SPD m/s | N cph | |
| 101 | 102.0 | 6.094 | 33.233 | | 0.11 | 26.145 | 0.185 | 1475. | -0.1 | |
| 103 | 104.2 | 6.095 | 33.234 | | 0.11 | 26.145 | 0.189 | 1475. | -0.2 | |
| 105 | 106.0 | 6.095 | 33.234 | | 0.11 | 26.145 | 0.193 | 1475. | -0.1 | |
| 107 | 108.1 | 6.095 | 33.234 | | 0.11 | 26.145 | 0.197 | 1475. | 0.2 | |
| 109 | 109.9 | 6.095 | 33.234 | | 0.11 | 26.145 | 0.200 | 1475. | 0.1 | |
| 111 | 112.2 | 6.095 | 33.233 | | 0.11 | 26.145 | 0.204 | 1475. | -0.1 | |
| 113 | 114.0 | 6.095 | 33.234 | | 0.11 | 26.145 | 0.208 | 1475. | 0.1 | |
| 115 | 116.0 | 6.095 | 33.234 | | 0.11 | 26.146 | 0.212 | 1475. | 0.1 | |
| 117 | 118.0 | 6.096 | 33.233 | | 0.11 | 26.145 | 0.215 | 1475. | 0.2 | |
| 119 | 120.0 | 6.096 | 33.234 | | 0.11 | 26.145 | 0.219 | 1475. | 0.3 | |
| 121 | 122.0 | 6.096 | 33.234 | | 0.11 | 26.145 | 0.223 | 1475. | 0.3 | |
| 123 | 124.0 | 6.096 | 33.234 | | 0.11 | 26.145 | 0.227 | 1475. | 0.4 | |
| 125 | 126.0 | 6.095 | 33.234 | | 0.11 | 26.146 | 0.230 | 1475. | 0.4 | |
| 127 | 127.9 | 6.095 | 33.234 | | 0.11 | 26.146 | 0.234 | 1475. | 0.8 | |
| 129 | 130.1 | 6.095 | 33.234 | | 0.11 | 26.146 | 0.238 | 1475. | 0.9 | |
| 131 | 132.0 | 6.095 | 33.234 | | 0.11 | 26.146 | 0.242 | 1475. | 0.9 | |
| 133 | 133.9 | 6.097 | 33.234 | | 0.11 | 26.146 | 0.245 | 1475. | 1.2 | |
| 135 | 136.0 | 6.120 | 33.243 | | 0.11 | 26.150 | 0.249 | 1475. | 1.2 | |
| 137 | 137.9 | 6.124 | 33.243 | | 0.11 | 26.149 | 0.253 | 1475. | 2.1 | |
| 139 | 140.1 | 6.125 | 33.243 | | 0.11 | 26.149 | 0.257 | 1475. | 2.7 | |
| 141 | 142.0 | 6.146 | 33.252 | | 0.11 | 26.153 | 0.260 | 1475. | 3.1 | |
| 143 | 144.1 | 6.161 | 33.252 | | 0.11 | 26.151 | 0.264 | 1476. | 3.6 | |
| 145 | 145.9 | 6.274 | 33.305 | | 0.12 | 26.179 | 0.268 | 1476. | 4.5 | |
| 147 | 148.1 | 6.325 | 33.326 | | 0.13 | 26.189 | 0.272 | 1476. | 4.9 | |
| 149 | 150.0 | 6.348 | 33.338 | | 0.14 | 26.196 | 0.275 | 1476. | 5.2 | |
| 151 | 151.9 | 6.401 | 33.373 | | 0.16 | 26.216 | 0.279 | 1477. | 5.4 | |
| 153 | 154.2 | 6.466 | 33.437 | | 0.19 | 26.258 | 0.283 | 1477. | 5.4 | |
| 155 | 155.8 | 6.477 | 33.448 | | 0.20 | 26.266 | 0.286 | 1477. | 5.3 | |
| 157 | 158.1 | 6.491 | 33.469 | | 0.23 | 26.281 | 0.290 | 1477. | 5.0 | |
| 159 | 159.9 | 6.508 | 33.501 | | 0.28 | 26.304 | 0.293 | 1477. | 4.4 | |
| 161 | 162.0 | 6.519 | 33.521 | | 0.31 | 26.318 | 0.296 | 1478. | 3.7 | |
| 163 | 164.0 | 6.522 | 33.522 | | 0.32 | 26.318 | 0.300 | 1478. | 3.3 | |
| 165 | 166.1 | 6.522 | 33.524 | | 0.33 | 26.320 | 0.303 | 1478. | 2.8 | |
| 167 | 167.9 | 6.524 | 33.526 | | 0.34 | 26.322 | 0.306 | 1478. | 2.3 | |
| 169 | 170.0 | 6.525 | 33.528 | | 0.38 | 26.323 | 0.310 | 1478. | 2.2 | |
| 171 | 172.0 | 6.528 | 33.534 | | 0.39 | 26.327 | 0.313 | 1478. | 2.5 | |
| 173 | 174.0 | 6.532 | 33.543 | | 0.39 | 26.334 | 0.317 | 1478. | 2.6 | |
| 175 | 176.0 | 6.535 | 33.548 | | 0.38 | 26.337 | 0.320 | 1478. | 2.5 | |
| 176 | 177.8 | 6.538 | 33.554 | | 0.37 | 26.341 | 0.323 | 1478. | 2.4 | |
| 179 | 180.2 | 6.544 | 33.565 | | 0.35 | 26.349 | 0.327 | 1478. | 2.3 | |
| 180 | 181.9 | 6.544 | 33.564 | | 0.36 | 26.349 | 0.330 | 1478. | 2.1 | |
| 183 | 184.1 | 6.545 | 33.565 | | 0.36 | 26.349 | 0.334 | 1478. | 1.9 | |
| 184 | 185.3 | 6.545 | 33.566 | | 0.37 | 26.350 | 0.336 | 1478. | 1.5 | |
| 184 | 186.0 | 6.546 | 33.567 | | 0.37 | 26.351 | 0.337 | 1478. | 1.0 | |
| 185 | 187.0 | 6.546 | 33.568 | | 0.38 | 26.351 | 0.339 | 1478. | 1.0 | |
| 186 | 188.1 | 6.546 | 33.568 | | 0.39 | 26.352 | 0.341 | 1478. | 0.7 | |
| 187 | 189.0 | 6.546 | 33.568 | | 0.38 | 26.351 | 0.342 | 1478. | 0.6 | |
| 188 | 190.0 | 6.546 | 33.568 | | 0.39 | 26.351 | 0.344 | 1478. | 0.5 | |
| 189 | 191.0 | 6.546 | 33.568 | | 0.39 | 26.351 | 0.346 | 1478. | 0.5 | |
| 190 | 192.0 | 6.547 | 33.567 | | 0.39 | 26.351 | 0.347 | 1478. | 0.5 | |

| SHIP OC | CRUISE 181 | STATION 16 | DATE 06 FEB 1987 | EST 0923 | LATITUDE 42°25.0'N | LONGITUDE 68°37.7'W | DEPTH 200 | | |
|---------|------------|------------|------------------|----------|---------------------|-------------------------|---|-----------|-------|
| DEPTH m | PRESS dbar | TEMP °C | SALIN psu | OXY ml/l | ATN m ⁻¹ | SIGT gm/cm ³ | DYHT A 10m ² /s ² | S SPD m/s | N cph |
| 191 | 193.0 | 6.547 | 33.568 | 0.38 | 26.352 | 0.349 | 1478. | 0.5 | |
| 192 | 193.9 | 6.547 | 33.569 | 0.39 | 26.352 | 0.351 | 1478. | 0.5 | |

| SHIP OC | CRUISE 181 | STATION 17 | DATE 06 FEB 1987 | EST 1014 | LATITUDE 42°29.7'N | LONGITUDE 68°41.3'W | DEPTH 173 | | |
|---------|------------|------------|------------------|----------|---------------------|-------------------------|---|-----------|-------|
| DEPTH m | PRESS dbar | TEMP °C | SALIN psu | OXY ml/l | ATN m ⁻¹ | SIGT gm/cm ³ | DYHT A 10m ² /s ² | S SPD m/s | N cph |
| 2 | 2.0 | 5.427 | 33.049 | 6.56 | 0.10 | 26.080 | 0.000 | 1470. | 2.2 |
| 4 | 4.1 | 5.426 | 33.050 | 6.56 | 0.10 | 26.081 | 0.004 | 1470. | 2.2 |
| 6 | 6.0 | 5.424 | 33.050 | 6.76 | 0.10 | 26.081 | 0.008 | 1470. | 2.2 |
| 8 | 8.1 | 5.424 | 33.049 | 6.85 | 0.10 | 26.081 | 0.012 | 1470. | 2.2 |
| 10 | 10.0 | 5.427 | 33.049 | 6.96 | 0.10 | 26.080 | 0.015 | 1470. | 2.2 |
| 12 | 12.2 | 5.428 | 33.050 | 6.99 | 0.10 | 26.081 | 0.020 | 1470. | 2.5 |
| 14 | 13.8 | 5.445 | 33.062 | 7.07 | 0.10 | 26.088 | 0.023 | 1470. | 2.8 |
| 16 | 16.1 | 5.493 | 33.087 | 7.05 | 0.10 | 26.102 | 0.027 | 1471. | 2.9 |
| 18 | 17.8 | 5.521 | 33.095 | 7.03 | 0.10 | 26.106 | 0.030 | 1471. | 3.0 |
| 20 | 20.1 | 5.552 | 33.106 | 7.01 | 0.10 | 26.111 | 0.035 | 1471. | 2.8 |
| 22 | 21.8 | 5.553 | 33.108 | 7.00 | 0.10 | 26.112 | 0.038 | 1471. | 2.5 |
| 24 | 24.1 | 5.582 | 33.120 | 6.98 | 0.10 | 26.118 | 0.042 | 1471. | 2.0 |
| 26 | 25.9 | 5.624 | 33.129 | 6.95 | 0.10 | 26.120 | 0.046 | 1471. | 1.9 |
| 28 | 28.1 | 5.641 | 33.134 | 6.93 | 0.11 | 26.122 | 0.050 | 1471. | 1.7 |
| 30 | 29.9 | 5.642 | 33.135 | 6.92 | 0.10 | 26.123 | 0.053 | 1471. | 1.5 |
| 32 | 32.0 | 5.638 | 33.132 | 6.92 | 0.10 | 26.121 | 0.057 | 1471. | 1.4 |
| 34 | 34.1 | 5.673 | 33.142 | 6.90 | 0.10 | 26.125 | 0.061 | 1472. | 1.2 |
| 36 | 36.0 | 5.683 | 33.145 | 6.89 | 0.10 | 26.126 | 0.065 | 1472. | 1.3 |
| 38 | 38.1 | 5.706 | 33.148 | 6.88 | 0.10 | 26.125 | 0.069 | 1472. | 1.3 |
| 40 | 40.0 | 5.742 | 33.160 | 6.85 | 0.11 | 26.130 | 0.072 | 1472. | 1.3 |
| 42 | 42.1 | 5.780 | 33.160 | 6.82 | 0.11 | 26.126 | 0.076 | 1472. | 1.2 |
| 44 | 43.9 | 5.843 | 33.176 | 6.78 | 0.11 | 26.131 | 0.080 | 1473. | 1.0 |
| 46 | 46.2 | 5.916 | 33.187 | 6.73 | 0.11 | 26.130 | 0.084 | 1473. | 0.8 |
| 48 | 47.9 | 5.943 | 33.192 | 6.70 | 0.11 | 26.131 | 0.087 | 1473. | 0.6 |
| 50 | 50.1 | 5.955 | 33.194 | 6.68 | 0.11 | 26.131 | 0.091 | 1473. | 1.0 |
| 52 | 52.0 | 5.953 | 33.191 | 6.67 | 0.11 | 26.130 | 0.095 | 1473. | 0.9 |
| 54 | 54.0 | 5.970 | 33.193 | 6.65 | 0.11 | 26.129 | 0.099 | 1473. | 1.1 |
| 56 | 56.0 | 6.042 | 33.210 | 6.62 | 0.11 | 26.133 | 0.102 | 1474. | 1.6 |
| 58 | 58.0 | 6.072 | 33.217 | 6.60 | 0.11 | 26.135 | 0.106 | 1474. | 1.8 |
| 60 | 60.1 | 6.097 | 33.221 | 6.33 | 0.11 | 26.135 | 0.110 | 1474. | 2.1 |
| 61 | 62.0 | 6.116 | 33.225 | 6.19 | 0.11 | 26.136 | 0.113 | 1474. | 2.3 |
| 64 | 64.1 | 6.209 | 33.254 | 6.16 | 0.11 | 26.147 | 0.117 | 1474. | 2.4 |
| 65 | 65.9 | 6.328 | 33.273 | 6.12 | 0.12 | 26.147 | 0.121 | 1475. | 2.6 |
| 68 | 68.1 | 6.417 | 33.295 | 6.09 | 0.12 | 26.153 | 0.125 | 1475. | 2.6 |
| 69 | 69.7 | 6.479 | 33.309 | 6.06 | 0.12 | 26.156 | 0.128 | 1476. | 2.5 |
| 72 | 72.3 | 6.528 | 33.326 | 6.04 | 0.13 | 26.163 | 0.133 | 1476. | 2.4 |
| 73 | 73.9 | 6.573 | 33.338 | 6.02 | 0.13 | 26.167 | 0.136 | 1476. | 2.4 |
| 75 | 76.1 | 6.597 | 33.344 | 6.02 | 0.13 | 26.169 | 0.140 | 1476. | 2.4 |
| 77 | 77.9 | 6.626 | 33.351 | 6.02 | 0.13 | 26.170 | 0.143 | 1476. | 2.4 |
| 79 | 80.0 | 6.659 | 33.366 | 6.02 | 0.13 | 26.177 | 0.147 | 1477. | 2.3 |
| 81 | 81.9 | 6.673 | 33.369 | 6.02 | 0.13 | 26.178 | 0.150 | 1477. | 2.4 |
| 84 | 84.3 | 6.697 | 33.380 | 6.00 | 0.13 | 26.184 | 0.155 | 1477. | 2.4 |
| 85 | 86.0 | 6.734 | 33.390 | 5.99 | 0.13 | 26.186 | 0.158 | 1477. | 2.4 |
| 87 | 88.0 | 6.775 | 33.401 | 5.97 | 0.14 | 26.190 | 0.162 | 1477. | 2.3 |
| 89 | 90.0 | 6.781 | 33.409 | 5.96 | 0.14 | 26.195 | 0.165 | 1477. | 2.5 |
| 91 | 92.1 | 6.778 | 33.411 | 5.96 | 0.14 | 26.197 | 0.169 | 1477. | 2.5 |
| 93 | 94.0 | 6.778 | 33.414 | 5.95 | 0.14 | 26.199 | 0.172 | 1477. | 2.8 |
| 95 | 96.1 | 6.791 | 33.422 | 5.95 | 0.14 | 26.204 | 0.176 | 1477. | 2.9 |
| 97 | 97.9 | 6.854 | 33.442 | 5.92 | 0.14 | 26.211 | 0.180 | 1478. | 3.0 |
| 99 | 100.2 | 6.828 | 33.443 | 5.92 | 0.14 | 26.216 | 0.184 | 1478. | 3.2 |

| SHIP OC | CRUISE 181 | STATION 17 | DATE 06 FEB 1987 | | EST 1014 | LATITUDE 42°29.7'N | LONGITUDE 68°41.3'W | DEPTH 173 | |
|---------|------------|------------|------------------|----------|---------------------|-------------------------|---|-----------|-------|
| DEPTH m | PRESS dbar | TEMP °C | SALIN psu | OXY ml/l | ATN m ⁻¹ | SIGT gm/cm ³ | DYHT A 10m ² /s ² | S SPD m/s | N cph |
| 101 | 102.0 | 6.909 | 33.480 | 5.88 | 0.15 | 26.234 | 0.187 | 1478. | 3.5 |
| 103 | 103.8 | 6.682 | 33.435 | 5.94 | 0.14 | 26.229 | 0.190 | 1477. | 3.6 |
| 105 | 106.1 | 6.482 | 33.410 | 5.99 | 0.14 | 26.235 | 0.194 | 1476. | 3.6 |
| 107 | 107.8 | 6.466 | 33.424 | 6.00 | 0.14 | 26.249 | 0.197 | 1476. | 3.5 |
| 109 | 110.3 | 6.494 | 33.448 | 5.98 | 0.15 | 26.264 | 0.202 | 1477. | 3.3 |
| 111 | 111.9 | 6.507 | 33.455 | 5.97 | 0.15 | 26.268 | 0.205 | 1477. | 3.2 |
| 113 | 114.2 | 6.520 | 33.463 | 5.95 | 0.16 | 26.272 | 0.209 | 1477. | 2.9 |
| 115 | 116.0 | 6.525 | 33.466 | 5.94 | 0.15 | 26.274 | 0.212 | 1477. | 2.5 |
| 117 | 118.0 | 6.543 | 33.474 | 5.92 | 0.16 | 26.277 | 0.215 | 1477. | 2.0 |
| 119 | 119.9 | 6.559 | 33.482 | 5.90 | 0.16 | 26.282 | 0.219 | 1477. | 1.8 |
| 121 | 122.0 | 6.563 | 33.484 | 5.87 | 0.16 | 26.283 | 0.222 | 1477. | 1.6 |
| 123 | 124.0 | 6.565 | 33.484 | 5.85 | 0.16 | 26.283 | 0.226 | 1477. | 1.4 |
| 125 | 126.0 | 6.566 | 33.484 | 5.83 | 0.16 | 26.283 | 0.229 | 1477. | 1.7 |
| 127 | 127.9 | 6.568 | 33.485 | 5.81 | 0.16 | 26.283 | 0.233 | 1477. | 2.0 |
| 129 | 130.1 | 6.577 | 33.489 | 5.80 | 0.16 | 26.285 | 0.236 | 1477. | 2.4 |
| 131 | 131.9 | 6.587 | 33.493 | 5.78 | 0.17 | 26.287 | 0.240 | 1477. | 2.8 |
| 133 | 134.0 | 6.620 | 33.514 | 5.76 | 0.17 | 26.299 | 0.243 | 1478. | 3.0 |
| 135 | 136.0 | 6.645 | 33.527 | 5.73 | 0.18 | 26.306 | 0.247 | 1478. | 3.1 |
| 137 | 138.0 | 6.650 | 33.537 | 5.71 | 0.19 | 26.313 | 0.250 | 1478. | 3.1 |
| 139 | 140.0 | 6.651 | 33.544 | 5.66 | 0.19 | 26.319 | 0.253 | 1478. | 3.0 |
| 141 | 142.0 | 6.651 | 33.550 | 5.31 | 0.19 | 26.324 | 0.257 | 1478. | 2.9 |
| 143 | 144.0 | 6.648 | 33.555 | 5.31 | 0.20 | 26.328 | 0.260 | 1478. | 2.8 |
| 145 | 146.0 | 6.647 | 33.559 | 5.30 | 0.20 | 26.331 | 0.264 | 1478. | 2.6 |
| 147 | 148.1 | 6.643 | 33.565 | 5.30 | 0.20 | 26.336 | 0.267 | 1478. | 2.6 |
| 149 | 150.0 | 6.641 | 33.573 | 5.31 | 0.21 | 26.343 | 0.271 | 1478. | 2.6 |
| 151 | 151.9 | 6.646 | 33.578 | 5.31 | 0.21 | 26.346 | 0.274 | 1478. | 2.6 |
| 153 | 154.1 | 6.654 | 33.581 | 5.32 | 0.21 | 26.347 | 0.277 | 1478. | 2.6 |
| 155 | 155.9 | 6.657 | 33.590 | 5.33 | 0.22 | 26.354 | 0.281 | 1478. | 2.7 |
| 157 | 158.1 | 6.655 | 33.592 | 5.35 | 0.23 | 26.356 | 0.284 | 1478. | 2.8 |
| 158 | 159.2 | 6.645 | 33.596 | 5.36 | 0.24 | 26.360 | 0.286 | 1478. | 3.0 |
| 159 | 160.0 | 6.642 | 33.603 | 5.37 | 0.28 | 26.367 | 0.287 | 1478. | 3.1 |
| 160 | 161.1 | 6.643 | 33.607 | 5.37 | 0.30 | 26.369 | 0.289 | 1478. | 3.1 |
| 161 | 162.0 | 6.645 | 33.613 | 5.37 | 0.30 | 26.374 | 0.291 | 1478. | 3.2 |
| 162 | 163.0 | 6.646 | 33.615 | 5.36 | 0.31 | 26.375 | 0.292 | 1478. | 3.2 |
| 163 | 164.1 | 6.646 | 33.616 | 5.36 | 0.34 | 26.376 | 0.294 | 1478. | 3.1 |
| 164 | 164.9 | 6.645 | 33.620 | 5.36 | 0.32 | 26.380 | 0.296 | 1478. | 3.1 |
| 165 | 166.0 | 6.642 | 33.625 | 5.36 | 0.32 | 26.384 | 0.297 | 1478. | 3.1 |
| 165 | 166.9 | 6.636 | 33.629 | 5.35 | 0.30 | 26.388 | 0.299 | 1478. | 3.1 |
| 167 | 168.1 | 6.632 | 33.634 | 5.35 | 0.27 | 26.392 | 0.301 | 1478. | 3.1 |

| SHIP OC | CRUISE 181 | STATION 18 | DATE 06 FEB 1987 | | EST 1053 | LATITUDE 42°32.5'N | LONGITUDE 68°43.2'W | DEPTH 198 | |
|---------|------------|------------|------------------|----------|---------------------|-------------------------|---|-----------|-------|
| DEPTH m | PRESS dbar | TEMP °C | SALIN psu | OXY ml/l | ATN m ⁻¹ | SIGT gm/cm ³ | DYHT A 10m ² /s ² | S SPD m/s | N cph |
| 2 | 2.3 | 5.097 | 32.857 | 7.34 | 0.10 | 25.966 | 0.000 | 1468. | 1.2 |
| 4 | 4.2 | 5.091 | 32.857 | 7.36 | 0.10 | 25.966 | 0.004 | 1468. | 1.2 |
| 6 | 6.0 | 5.087 | 32.854 | 7.38 | 0.10 | 25.965 | 0.007 | 1468. | 1.2 |
| 8 | 7.9 | 5.083 | 32.854 | 7.38 | 0.10 | 25.965 | 0.011 | 1468. | 1.2 |
| 10 | 10.1 | 5.086 | 32.854 | 7.37 | 0.10 | 25.965 | 0.016 | 1469. | 1.2 |
| 12 | 11.9 | 5.084 | 32.854 | 7.38 | 0.10 | 25.965 | 0.019 | 1469. | 1.7 |
| 14 | 13.9 | 5.099 | 32.861 | 7.38 | 0.10 | 25.968 | 0.023 | 1469. | 2.1 |
| 16 | 16.1 | 5.120 | 32.867 | 7.39 | 0.10 | 25.971 | 0.028 | 1469. | 2.4 |
| 18 | 17.9 | 5.129 | 32.871 | 7.39 | 0.10 | 25.974 | 0.032 | 1469. | 2.9 |
| 20 | 20.0 | 5.160 | 32.888 | 7.38 | 0.09 | 25.983 | 0.036 | 1469. | 3.3 |
| 22 | 22.1 | 5.185 | 32.896 | 7.36 | 0.09 | 25.987 | 0.040 | 1469. | 3.6 |
| 24 | 23.8 | 5.206 | 32.908 | 7.35 | 0.09 | 25.994 | 0.043 | 1469. | 3.7 |
| 26 | 26.1 | 5.254 | 32.935 | 7.33 | 0.09 | 26.010 | 0.048 | 1470. | 3.6 |
| 28 | 27.9 | 5.297 | 32.956 | 7.32 | 0.09 | 26.021 | 0.052 | 1470. | 3.4 |
| 30 | 30.0 | 5.330 | 32.973 | 7.30 | 0.09 | 26.031 | 0.056 | 1470. | 3.1 |
| 32 | 32.0 | 5.338 | 32.976 | 7.30 | 0.09 | 26.033 | 0.060 | 1470. | 2.7 |
| 34 | 33.9 | 5.340 | 32.977 | 7.31 | 0.09 | 26.034 | 0.063 | 1470. | 2.1 |
| 36 | 36.0 | 5.340 | 32.979 | 7.31 | 0.09 | 26.034 | 0.068 | 1470. | 1.7 |
| 38 | 38.0 | 5.340 | 32.979 | 7.31 | 0.09 | 26.035 | 0.071 | 1470. | 1.5 |
| 40 | 40.1 | 5.340 | 32.981 | 7.32 | 0.09 | 26.037 | 0.076 | 1470. | 1.6 |
| 42 | 42.0 | 5.340 | 32.984 | 7.32 | 0.09 | 26.038 | 0.079 | 1470. | 1.8 |
| 44 | 44.2 | 5.345 | 32.988 | 7.32 | 0.09 | 26.041 | 0.084 | 1470. | 1.8 |
| 46 | 45.9 | 5.352 | 32.992 | 7.32 | 0.09 | 26.044 | 0.087 | 1470. | 1.8 |
| 48 | 48.2 | 5.356 | 32.996 | 7.33 | 0.09 | 26.046 | 0.092 | 1470. | 1.8 |
| 50 | 50.0 | 5.362 | 32.999 | 7.33 | 0.09 | 26.048 | 0.095 | 1470. | 1.8 |
| 52 | 52.0 | 5.366 | 33.001 | 7.33 | 0.09 | 26.049 | 0.099 | 1471. | 1.6 |
| 54 | 54.1 | 5.380 | 33.006 | 7.33 | 0.09 | 26.051 | 0.103 | 1471. | 1.7 |
| 56 | 56.1 | 5.406 | 33.013 | 7.32 | 0.09 | 26.054 | 0.107 | 1471. | 1.9 |
| 58 | 58.1 | 5.423 | 33.015 | 7.31 | 0.09 | 26.054 | 0.111 | 1471. | 2.4 |
| 60 | 60.0 | 5.439 | 33.019 | 7.30 | 0.09 | 26.055 | 0.115 | 1471. | 3.0 |
| 61 | 62.0 | 5.471 | 33.031 | 7.29 | 0.09 | 26.060 | 0.118 | 1471. | 3.4 |
| 64 | 64.1 | 5.536 | 33.048 | 7.26 | 0.09 | 26.067 | 0.122 | 1471. | 3.5 |
| 65 | 65.9 | 5.653 | 33.090 | 7.21 | 0.09 | 26.086 | 0.126 | 1472. | 3.5 |
| 68 | 68.2 | 5.874 | 33.147 | 7.13 | 0.09 | 26.105 | 0.130 | 1473. | 3.3 |
| 69 | 69.9 | 5.904 | 33.152 | 7.11 | 0.09 | 26.104 | 0.134 | 1473. | 2.8 |
| 71 | 72.0 | 5.908 | 33.149 | 7.10 | 0.09 | 26.102 | 0.138 | 1473. | 2.2 |
| 73 | 74.0 | 5.914 | 33.151 | 7.09 | 0.09 | 26.103 | 0.142 | 1473. | 1.2 |
| 75 | 76.0 | 5.918 | 33.152 | 7.09 | 0.09 | 26.103 | 0.145 | 1473. | -0.6 |
| 77 | 78.0 | 5.919 | 33.151 | 7.09 | 0.09 | 26.102 | 0.149 | 1473. | -0.1 |
| 79 | 80.1 | 5.922 | 33.151 | 7.09 | 0.09 | 26.102 | 0.153 | 1473. | 1.0 |
| 81 | 81.8 | 5.923 | 33.151 | 7.09 | 0.09 | 26.102 | 0.156 | 1473. | 1.6 |
| 83 | 84.1 | 5.927 | 33.153 | 7.09 | 0.09 | 26.103 | 0.161 | 1473. | 2.1 |
| 85 | 86.0 | 5.936 | 33.157 | 7.08 | 0.09 | 26.104 | 0.164 | 1474. | 2.5 |
| 87 | 87.9 | 5.998 | 33.175 | 7.06 | 0.09 | 26.111 | 0.168 | 1474. | 2.9 |
| 89 | 90.1 | 6.083 | 33.200 | 7.02 | 0.09 | 26.120 | 0.172 | 1474. | 3.1 |
| 91 | 91.9 | 6.159 | 33.220 | 6.97 | 0.10 | 26.127 | 0.176 | 1475. | 3.3 |
| 93 | 94.0 | 6.257 | 33.244 | 6.92 | 0.10 | 26.133 | 0.180 | 1475. | 3.3 |
| 95 | 96.0 | 6.348 | 33.270 | 6.85 | 0.10 | 26.142 | 0.183 | 1476. | 3.3 |
| 97 | 98.1 | 6.455 | 33.295 | 6.79 | 0.12 | 26.148 | 0.187 | 1476. | 3.4 |
| 99 | 100.0 | 6.615 | 33.335 | 6.71 | 0.13 | 26.159 | 0.191 | 1477. | 3.4 |

| SHIP OC | CRUISE 181 | STATION 18 | DATE 06 FEB 1987 | | EST 1053 | LATITUDE 42°32.5'N | LONGITUDE 68°43.2'W | DEPTH 198 | | |
|------------|---------------|---------------|---------------------|-------------|------------------------|----------------------------|--|--------------|----------|--|
| DEPTH m | PRESS dbar | TEMP °C | SALIN psu | OXY ml/l | ATN m ⁻¹ | SIGT gm/cm ³ | DYHT A 10m ² /s ² | S SPD m/s | N cph | |
| 101 | 101.9 | 6.666 | 33.341 | 6.67 | 0.13 | 26.157 | 0.194 | 1477. | 3.4 | |
| 103 | 104.0 | 6.792 | 33.381 | 6.59 | 0.14 | 26.171 | 0.198 | 1478. | 3.4 | |
| 105 | 105.9 | 6.959 | 33.423 | 6.51 | 0.16 | 26.182 | 0.202 | 1478. | 3.3 | |
| 107 | 108.1 | 7.035 | 33.440 | 6.45 | 0.16 | 26.186 | 0.206 | 1479. | 3.0 | |
| 109 | 110.0 | 7.087 | 33.462 | 6.40 | 0.17 | 26.196 | 0.209 | 1479. | 3.1 | |
| 111 | 111.8 | 7.150 | 33.478 | 6.36 | 0.18 | 26.200 | 0.213 | 1479. | 3.2 | |
| 113 | 114.2 | 7.186 | 33.483 | 6.34 | 0.18 | 26.198 | 0.217 | 1479. | 3.4 | |
| 115 | 116.0 | 7.163 | 33.481 | 6.34 | 0.17 | 26.200 | 0.220 | 1479. | 3.8 | |
| 117 | 118.1 | 7.150 | 33.504 | 6.34 | 0.16 | 26.220 | 0.224 | 1479. | 4.1 | |
| 119 | 120.0 | 7.131 | 33.518 | 6.35 | 0.15 | 26.234 | 0.227 | 1479. | 4.3 | |
| 121 | 121.9 | 7.177 | 33.540 | 6.31 | 0.16 | 26.245 | 0.231 | 1480. | 4.5 | |
| 123 | 124.1 | 7.230 | 33.571 | 6.27 | 0.16 | 26.262 | 0.235 | 1480. | 4.4 | |
| 125 | 125.9 | 7.259 | 33.593 | 6.23 | 0.15 | 26.275 | 0.238 | 1480. | 4.2 | |
| 127 | 128.1 | 7.272 | 33.607 | 6.18 | 0.15 | 26.284 | 0.242 | 1480. | 4.0 | |
| 129 | 129.7 | 7.297 | 33.621 | 6.14 | 0.15 | 26.292 | 0.244 | 1480. | 3.8 | |
| 131 | 132.2 | 7.370 | 33.647 | 6.08 | 0.16 | 26.302 | 0.249 | 1481. | 3.7 | |
| 133 | 134.0 | 7.428 | 33.666 | 6.03 | 0.16 | 26.309 | 0.252 | 1481. | 3.8 | |
| 135 | 135.8 | 7.466 | 33.679 | 6.00 | 0.16 | 26.314 | 0.255 | 1481. | 4.2 | |
| 137 | 138.3 | 7.503 | 33.698 | 5.96 | 0.17 | 26.323 | 0.259 | 1481. | 4.5 | |
| 139 | 139.8 | 7.517 | 33.718 | 5.72 | 0.19 | 26.337 | 0.262 | 1481. | 4.6 | |
| 141 | 142.1 | 7.541 | 33.748 | 5.51 | 0.22 | 26.357 | 0.266 | 1482. | 4.4 | |
| 143 | 144.0 | 7.606 | 33.799 | 5.46 | 0.24 | 26.388 | 0.269 | 1482. | 4.1 | |
| 145 | 145.9 | 7.676 | 33.816 | 5.41 | 0.24 | 26.392 | 0.272 | 1482. | 3.8 | |
| 147 | 147.9 | 7.657 | 33.812 | 5.39 | 0.25 | 26.391 | 0.275 | 1482. | 3.4 | |
| 149 | 150.0 | 7.612 | 33.804 | 5.40 | 0.26 | 26.392 | 0.279 | 1482. | 3.0 | |
| 151 | 151.9 | 7.405 | 33.761 | 5.47 | 0.27 | 26.387 | 0.282 | 1481. | 2.5 | |
| 153 | 153.9 | 7.244 | 33.750 | 5.54 | 0.30 | 26.401 | 0.285 | 1481. | 2.6 | |
| 155 | 156.1 | 7.296 | 33.775 | 5.54 | 0.33 | 26.413 | 0.289 | 1481. | 2.4 | |
| 157 | 158.1 | 7.299 | 33.778 | 5.56 | 0.33 | 26.415 | 0.292 | 1481. | 2.3 | |
| 159 | 160.0 | 7.297 | 33.777 | 5.57 | 0.33 | 26.415 | 0.295 | 1481. | 2.0 | |
| 161 | 161.9 | 7.289 | 33.776 | 5.58 | 0.33 | 26.415 | 0.298 | 1481. | 1.4 | |
| 163 | 164.2 | 7.188 | 33.751 | 5.62 | 0.33 | 26.409 | 0.302 | 1481. | 1.2 | |
| 164 | 165.9 | 7.158 | 33.753 | 5.64 | 0.33 | 26.415 | 0.305 | 1480. | 1.4 | |
| 167 | 168.0 | 7.138 | 33.750 | 5.64 | 0.34 | 26.415 | 0.308 | 1480. | 1.7 | |
| 169 | 170.0 | 7.167 | 33.760 | 5.63 | 0.34 | 26.419 | 0.312 | 1481. | 1.9 | |
| 170 | 171.9 | 7.249 | 33.777 | 5.61 | 0.36 | 26.421 | 0.315 | 1481. | 2.1 | |
| 173 | 174.0 | 7.324 | 33.794 | 5.59 | 0.42 | 26.425 | 0.318 | 1481. | 1.8 | |
| 174 | 175.7 | 7.353 | 33.805 | 5.58 | 0.50 | 26.429 | 0.321 | 1481. | 1.7 | |
| 177 | 178.3 | 7.397 | 33.814 | 5.57 | 0.57 | 26.430 | 0.325 | 1482. | 1.5 | |
| 178 | 180.0 | 7.401 | 33.818 | 5.57 | 0.59 | 26.432 | 0.328 | 1482. | 1.3 | |
| 180 | 181.9 | 7.402 | 33.814 | 5.57 | 0.61 | 26.429 | 0.331 | 1482. | 1.0 | |
| 182 | 184.0 | 7.400 | 33.816 | 5.56 | 0.61 | 26.431 | 0.334 | 1482. | 0.6 | |
| 184 | 185.3 | 7.399 | 33.816 | 5.55 | 0.62 | 26.431 | 0.336 | 1482. | 0.5 | |
| 185 | 186.1 | 7.399 | 33.816 | 5.55 | 0.62 | 26.431 | 0.337 | 1482. | 0.2 | |
| 185 | 186.9 | 7.399 | 33.816 | 5.56 | 0.61 | 26.431 | 0.339 | 1482. | 0.7 | |
| 186 | 188.0 | 7.399 | 33.816 | 5.56 | 0.62 | 26.431 | 0.341 | 1482. | -0.3 | |
| 187 | 189.1 | 7.400 | 33.816 | 5.55 | 0.62 | 26.431 | 0.342 | 1482. | -0.4 | |
| 188 | 189.9 | 7.401 | 33.816 | 5.56 | 0.62 | 26.431 | 0.344 | 1482. | -0.4 | |
| 189 | 191.0 | 7.397 | 33.815 | 5.56 | 0.63 | 26.430 | 0.345 | 1482. | -0.4 | |
| 191 | 192.1 | 7.397 | 33.815 | 5.55 | 0.62 | 26.430 | 0.347 | 1482. | -0.4 | |

| SHIP OC | CRUISE 181 | STATION 18 | DATE 06 FEB 1987 | | EST 1053 | LATITUDE 42°32.5'N | LONGITUDE 68°43.2'W | DEPTH 198 | | |
|------------|---------------|---------------|---------------------|-------------|------------------------|----------------------------|--|--------------|----------|--|
| DEPTH m | PRESS dbar | TEMP °C | SALIN psu | OXY ml/l | ATN m ⁻¹ | SIGT gm/cm ³ | DYHT A 10m ² /s ² | S SPD m/s | N cph | |
| 191 | 192.7 | 7.393 | 33.814 | 5.55 | 0.63 | 26.430 | 0.348 | 1482. | -0.4 | |

| SHIP OC | CRUISE 181 | STATION 19 | DATE 06 FEB 1987 | EST 1303 | LATITUDE 42°34.9'N | LONGITUDE 68°44.5'W | DEPTH 198 | | | | | | | |
|------------|---------------|---------------|---------------------|-------------|------------------------|----------------------------|--|--------------|----------|--|--|--|--|--|
| DEPTH m | PRESS dbar | TEMP °C | SALIN psu | OXY ml/l | ATN m ⁻¹ | SIGT gm/cm ³ | DYHT A 10m ² /s ² | S SPD m/s | N cph | | | | | |
| 3 | 2.9 | 4.601 | 32.623 | 6.83 | 0.12 | 25.835 | 0.000 | 1466. | 1.0 | | | | | |
| 4 | 4.0 | 4.609 | 32.627 | 6.89 | 0.11 | 25.836 | 0.002 | 1466. | 1.0 | | | | | |
| 6 | 6.2 | 4.619 | 32.629 | 6.88 | 0.11 | 25.837 | 0.007 | 1466. | 1.0 | | | | | |
| 8 | 8.0 | 4.618 | 32.629 | 6.87 | 0.11 | 25.837 | 0.011 | 1466. | 1.0 | | | | | |
| 10 | 9.8 | 4.620 | 32.630 | 6.86 | 0.11 | 25.838 | 0.015 | 1466. | 1.0 | | | | | |
| 12 | 12.0 | 4.627 | 32.632 | 6.85 | 0.11 | 25.839 | 0.020 | 1466. | 0.9 | | | | | |
| 14 | 13.7 | 4.636 | 32.635 | 6.85 | 0.11 | 25.840 | 0.023 | 1466. | 0.8 | | | | | |
| 16 | 16.0 | 4.635 | 32.634 | 6.85 | 0.11 | 25.839 | 0.028 | 1466. | 1.3 | | | | | |
| 18 | 18.2 | 4.635 | 32.634 | 6.86 | 0.11 | 25.839 | 0.033 | 1467. | 1.9 | | | | | |
| 20 | 19.9 | 4.639 | 32.635 | 6.87 | 0.11 | 25.840 | 0.037 | 1467. | 3.0 | | | | | |
| 22 | 22.1 | 4.643 | 32.637 | 6.88 | 0.11 | 25.841 | 0.041 | 1467. | 3.7 | | | | | |
| 24 | 24.1 | 4.678 | 32.654 | 6.87 | 0.11 | 25.851 | 0.046 | 1467. | 4.1 | | | | | |
| 26 | 25.8 | 4.739 | 32.679 | 6.85 | 0.11 | 25.864 | 0.049 | 1467. | 4.3 | | | | | |
| 28 | 28.0 | 4.931 | 32.751 | 6.77 | 0.10 | 25.901 | 0.054 | 1468. | 4.5 | | | | | |
| 30 | 30.1 | 5.078 | 32.784 | 6.71 | 0.09 | 25.910 | 0.058 | 1469. | 4.7 | | | | | |
| 32 | 31.8 | 5.088 | 32.783 | 6.70 | 0.09 | 25.909 | 0.062 | 1469. | 4.8 | | | | | |
| 34 | 33.8 | 5.105 | 32.793 | 6.70 | 0.09 | 25.914 | 0.066 | 1469. | 4.7 | | | | | |
| 36 | 36.0 | 5.182 | 32.832 | 6.67 | 0.09 | 25.936 | 0.071 | 1469. | 4.8 | | | | | |
| 38 | 38.2 | 5.275 | 32.875 | 6.63 | 0.09 | 25.960 | 0.075 | 1470. | 5.3 | | | | | |
| 39 | 39.7 | 5.347 | 32.903 | 6.60 | 0.09 | 25.974 | 0.078 | 1470. | 6.0 | | | | | |
| 42 | 41.9 | 5.400 | 32.928 | 6.59 | 0.08 | 25.988 | 0.083 | 1470. | 6.2 | | | | | |
| 44 | 44.0 | 5.483 | 32.976 | 6.57 | 0.08 | 26.016 | 0.087 | 1471. | 6.1 | | | | | |
| 46 | 46.2 | 5.662 | 33.051 | 6.50 | 0.08 | 26.054 | 0.091 | 1472. | 5.8 | | | | | |
| 48 | 48.1 | 5.907 | 33.149 | 6.41 | 0.07 | 26.102 | 0.095 | 1473. | 5.4 | | | | | |
| 49 | 49.8 | 5.943 | 33.156 | 6.38 | 0.07 | 26.103 | 0.098 | 1473. | 4.8 | | | | | |
| 52 | 51.9 | 5.967 | 33.164 | 6.36 | 0.07 | 26.106 | 0.102 | 1473. | 3.8 | | | | | |
| 54 | 54.1 | 5.969 | 33.165 | 6.35 | 0.07 | 26.107 | 0.106 | 1473. | 2.6 | | | | | |
| 56 | 56.0 | 5.968 | 33.165 | 6.36 | 0.07 | 26.107 | 0.110 | 1473. | 1.3 | | | | | |
| 57 | 57.8 | 5.967 | 33.165 | 6.37 | 0.07 | 26.107 | 0.113 | 1473. | 1.2 | | | | | |
| 60 | 60.0 | 5.964 | 33.167 | 6.38 | 0.07 | 26.109 | 0.118 | 1473. | 1.1 | | | | | |
| 61 | 62.0 | 5.965 | 33.169 | 6.38 | 0.07 | 26.110 | 0.121 | 1473. | 1.0 | | | | | |
| 63 | 63.8 | 5.964 | 33.169 | 6.38 | 0.07 | 26.111 | 0.125 | 1473. | 1.1 | | | | | |
| 66 | 66.1 | 5.964 | 33.170 | 6.38 | 0.07 | 26.111 | 0.129 | 1473. | 1.2 | | | | | |
| 67 | 67.9 | 5.964 | 33.170 | 6.37 | 0.06 | 26.111 | 0.132 | 1473. | 1.4 | | | | | |
| 69 | 70.0 | 5.965 | 33.170 | 6.38 | 0.06 | 26.111 | 0.136 | 1473. | 1.7 | | | | | |
| 72 | 72.1 | 5.974 | 33.175 | 6.37 | 0.06 | 26.114 | 0.141 | 1474. | 1.9 | | | | | |
| 73 | 73.9 | 5.985 | 33.180 | 6.37 | 0.06 | 26.117 | 0.144 | 1474. | 2.1 | | | | | |
| 75 | 76.0 | 6.018 | 33.192 | 6.36 | 0.06 | 26.122 | 0.148 | 1474. | 2.2 | | | | | |
| 78 | 78.3 | 6.061 | 33.205 | 6.34 | 0.07 | 26.127 | 0.152 | 1474. | 2.2 | | | | | |
| 79 | 79.9 | 6.089 | 33.211 | 6.33 | 0.07 | 26.129 | 0.155 | 1474. | 2.1 | | | | | |
| 81 | 82.1 | 6.113 | 33.216 | 6.32 | 0.07 | 26.129 | 0.159 | 1474. | 2.0 | | | | | |
| 83 | 84.0 | 6.144 | 33.225 | 6.30 | 0.07 | 26.133 | 0.163 | 1474. | 2.0 | | | | | |
| 85 | 85.8 | 6.173 | 33.234 | 6.29 | 0.07 | 26.135 | 0.166 | 1475. | 2.1 | | | | | |
| 87 | 88.0 | 6.202 | 33.238 | 6.26 | 0.07 | 26.136 | 0.170 | 1475. | 2.1 | | | | | |
| 89 | 90.1 | 6.225 | 33.245 | 6.25 | 0.07 | 26.138 | 0.174 | 1475. | 2.1 | | | | | |
| 91 | 92.2 | 6.273 | 33.263 | 6.24 | 0.07 | 26.146 | 0.178 | 1475. | 2.0 | | | | | |
| 93 | 94.1 | 6.288 | 33.270 | 6.23 | 0.07 | 26.150 | 0.182 | 1475. | 1.9 | | | | | |
| 95 | 95.9 | 6.298 | 33.272 | 6.22 | 0.07 | 26.150 | 0.185 | 1475. | 1.7 | | | | | |
| 97 | 98.1 | 6.305 | 33.274 | 6.21 | 0.07 | 26.150 | 0.189 | 1475. | 1.5 | | | | | |
| 99 | 100.3 | 6.309 | 33.275 | 6.21 | 0.07 | 26.151 | 0.193 | 1475. | 1.4 | | | | | |

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| SHIP OC | CRUISE 181 | STATION 19 | DATE 06 FEB 1987 | EST 1303 | LATITUDE 42°34.9'N | LONGITUDE 68°44.5'W | DEPTH 198 | | | | | | | | | | |
|------------|---------------|---------------|---------------------|-------------|------------------------|----------------------------|--|--------------|----------|--------------|-------------|------------------------|----------------------------|--|--------------|----------|--|
| DEPTH m | PRESS dbar | TEMP °C | SALIN psu | OXY ml/l | ATN m ⁻¹ | SIGT gm/cm ³ | DYHT A 10m ² /s ² | S SPD m/s | N cph | SALIN psu | OXY ml/l | ATN m ⁻¹ | SIGT gm/cm ³ | DYHT A 10m ² /s ² | S SPD m/s | N cph | |
| 101 | 102.0 | 6.313 | 33.276 | 6.21 | 0.07 | 26.151 | 0.197 | 1475. | 1.6 | | | | | | | | |
| 103 | 103.8 | 6.321 | 33.278 | 6.20 | 0.07 | 26.152 | 0.200 | 1476. | 1.9 | | | | | | | | |
| 105 | 106.0 | 6.344 | 33.286 | 6.19 | 0.08 | 26.155 | 0.204 | 1476. | 2.3 | | | | | | | | |
| 107 | 108.1 | 6.379 | 33.297 | 6.18 | 0.08 | 26.159 | 0.208 | 1476. | 2.4 | | | | | | | | |
| 109 | 109.9 | 6.422 | 33.311 | 6.17 | 0.08 | 26.165 | 0.211 | 1476. | 2.5 | | | | | | | | |
| 111 | 112.1 | 6.471 | 33.325 | 6.15 | 0.08 | 26.170 | 0.215 | 1476. | 2.5 | | | | | | | | |
| 113 | 114.2 | 6.520 | 33.343 | 6.11 | 0.08 | 26.177 | 0.219 | 1477. | 2.7 | | | | | | | | |
| 115 | 116.0 | 6.543 | 33.347 | 6.10 | 0.08 | 26.177 | 0.223 | 1477. | 3.0 | | | | | | | | |
| 117 | 118.0 | 6.563 | 33.351 | 6.08 | 0.08 | 26.178 | 0.226 | 1477. | 3.2 | | | | | | | | |
| 119 | 120.1 | 6.610 | 33.367 | 6.06 | 0.07 | 26.185 | 0.230 | 1477. | 3.4 | | | | | | | | |
| 121 | 122.1 | 6.729 | 33.403 | 6.01 | 0.07 | 26.198 | 0.234 | 1478. | 3.6 | | | | | | | | |
| 123 | 123.9 | 6.872 | 33.451 | 5.95 | 0.08 | 26.217 | 0.237 | 1478. | 3.8 | | | | | | | | |
| 125 | 125.9 | 6.934 | 33.462 | 5.91 | 0.08 | 26.216 | 0.241 | 1479. | 3.9 | | | | | | | | |
| 127 | 128.0 | 6.983 | 33.482 | 5.87 | 0.08 | 26.225 | 0.244 | 1479. | 4.0 | | | | | | | | |
| 129 | 130.0 | 7.090 | 33.518 | 5.82 | 0.08 | 26.239 | 0.248 | 1479. | 4.0 | | | | | | | | |
| 131 | 132.1 | 7.135 | 33.534 | 5.78 | 0.09 | 26.246 | 0.252 | 1480. | 4.1 | | | | | | | | |
| 133 | 134.3 | 7.187 | 33.561 | 5.75 | 0.10 | 26.260 | 0.256 | 1480. | 4.3 | | | | | | | | |
| 135 | 135.9 | 7.272 | 33.596 | 5.71 | 0.10 | 26.276 | 0.259 | 1480. | 4.3 | | | | | | | | |
| 137 | 137.9 | 7.300 | 33.611 | 5.68 | 0.10 | 26.283 | 0.262 | 1480. | 4.4 | | | | | | | | |
| 139 | 140.1 | 7.342 | 33.638 | 5.62 | 0.10 | 26.299 | 0.266 | 1481. | 4.5 | | | | | | | | |
| 141 | 142.1 | 7.407 | 33.661 | 5.58 | 0.10 | 26.308 | 0.269 | 1481. | 4.5 | | | | | | | | |
| 143 | 143.9 | 7.460 | 33.686 | 5.53 | 0.11 | 26.320 | 0.272 | 1481. | 4.6 | | | | | | | | |
| 145 | 146.0 | 7.511 | 33.716 | 5.49 | 0.11 | 26.337 | 0.276 | 1481. | 4.7 | | | | | | | | |
| 147 | 148.1 | 7.545 | 33.745 | 5.45 | 0.12 | 26.355 | 0.280 | 1482. | 4.6 | | | | | | | | |
| 148 | 149.7 | 7.560 | 33.761 | 5.42 | 0.12 | 26.365 | 0.282 | 1482. | 4.5 | | | | | | | | |
| 151 | 152.1 | 7.591 | 33.790 | 5.29 | 0.13 | 26.384 | 0.286 | 1482. | 4.3 | | | | | | | | |
| 153 | 154.2 | 7.587 | 33.802 | 5.02 | 0.15 | 26.393 | 0.290 | 1482. | 4.0 | | | | | | | | |
| 155 | 155.8 | 7.576 | 33.806 | 5.02 | 0.16 | 26.398 | 0.292 | 1482. | 3.7 | | | | | | | | |
| 157 | 157.9 | 7.566 | 33.810 | 5.02 | 0.26 | 26.402 | 0.296 | 1482. | 3.3 | | | | | | | | |
| 158 | 159.8 | 7.541 | 33.825 | 5.03 | 0.46 | 26.418 | 0.299 | 1482. | 2.8 | | | | | | | | |
| 161 | 162.1 | 7.547 | 33.827 | 5.01 | 0.51 | 26.419 | 0.303 | 1482. | 2.5 | | | | | | | | |
| 163 | 164.1 | 7.557 | 33.832 | 5.01 | 0.57 | 26.421 | 0.306 | 1482. | 2.1 | | | | | | | | |
| 165 | 165.9 | 7.569 | 33.834 | 5.02 | 0.60 | 26.421 | 0.309 | 1482. | 1.7 | | | | | | | | |
| 167 | 168.3 | 7.587 | 33.840 | 5.03 | 0.57 | 26.423 | 0.313 | 1482. | 1.1 | | | | | | | | |
| 169 | 170.0 | 7.593 | 33.841 | 5.03 | 0.55 | 26.423 | 0.316 | 1482. | 1.3 | | | | | | | | |
| 171 | 171.9 | 7.595 | 33.841 | 5.03 | 0.55 | 26.423 | 0.319 | 1482. | 1.5 | | | | | | | | |
| 173 | 174.1 | 7.600 | 33.843 | 5.03 | 0.46 | 26.423 | 0.322 | 1482. | 2.0 | | | | | | | | |
| 174 | 175.8 | 7.607 | 33.847 | 5.03 | 0.46 | 26.426 | 0.325 | 1482. | 2.5 | | | | | | | | |
| 176 | 177.9 | 7.613 | 33.855 | 5.03 | 0.50 | 26.431 | 0.328 | 1482. | 3.0 | | | | | | | | |
| 179 | 180.2 | 7.502 | 33.836 | 5.06 | 0.42 | 26.432 | 0.332 | 1482. | 3.6 | | | | | | | | |
| 180 | 181.3 | 7.417 | 33.837 | 5.08 | 0.33 | 26.445 | 0.334 | 1482. | 4.0 | | | | | | | | |
| 181 | 182.1 | 7.406 | 33.848 | 5.09 | 0.33 | 26.455 | 0.335 | 1482. | 4.4 | | | | | | | | |
| 181 | 183.0 | 7.391 | 33.857 | 5.09 | 0.41 | 26.464 | 0.336 | 1482. | 4.7 | | | | | | | | |
| 183 | 184.1 | 7.382 | 33.863 | 5.09 | 0.45 | 26.470 | 0.338 | 1482. | 4.8 | | | | | | | | |
| 183 | 185.0 | 7.377 | 33.867 | 5.09 | 0.55 | 26.474 | 0.340 | 1482. | 4.3 | | | | | | | | |
| 184 | 186.0 | 7.370 | 33.873 | 5.09 | 0.64 | 26.480 | 0.341 | 1482. | 3.9 | | | | | | | | |
| 186 | 187.1 | 7.361 | 33.879 | 5.09 | 0.76 | 26.486 | 0.343 | 1482. | 3.4 | | | | | | | | |
| 186 | 187.9 | 7.350 | 33.883 | 5.08 | 0.78 | 26.490 | 0.344 | 1482. | 3.4 | | | | | | | | |
| 187 | 189.0 | 7.351 | 33.883 | 5.07 | 0.79 | 26.491 | 0.346 | 1482. | 3.4 | | | | | | | | |
| 188 | 190.0 | 7.347 | 33.884 | 5.07 | 0.78 | 26.492 | 0.347 | 1482. | 3.4 | | | | | | | | |

| SHIP | CRUISE | STATION | DATE | EST | LATITUDE | LONGITUDE | DEPTH | | |
|-------|--------|---------|-------------|------|-----------------|--------------------|----------------------------------|-------|-----|
| OC | 181 | 19 | 06 FEB 1987 | 1303 | 42°34.9'N | 68°44.5'W | 198 | | |
| DEPTH | PRESS | TEMP | SALIN | OXY | ATN | SIGT | DYHT A | S SPD | N |
| m | dbar | °C | psu | ml/l | m ⁻¹ | gw/cm ³ | 10m ² /s ² | m/s | cph |
| 189 | 191.0 | 7.346 | 33.884 | 5.08 | 0.79 | 26.492 | 0.349 | 1482. | 3.4 |

| SHIP | CRUISE | STATION | DATE | EST | LATITUDE | LONGITUDE | DEPTH | | |
|-------|--------|---------|-------------|------|-----------------|--------------------|----------------------------------|-------|------|
| OC | 181 | 20 | 06 FEB 1987 | 1357 | 42°38.1'N | 68°46.1'W | 181 | | |
| DEPTH | PRESS | TEMP | SALIN | OXY | ATN | SIGT | DYHT A | S SPD | N |
| m | dbar | °C | psu | ml/l | m ⁻¹ | gw/cm ³ | 10m ² /s ² | m/s | cph |
| 3 | 2.8 | 4.401 | 32.524 | 6.89 | 0.12 | 25.776 | 0.000 | 1465. | -0.5 |
| 4 | 4.0 | 4.405 | 32.520 | 6.95 | 0.12 | 25.773 | 0.003 | 1465. | -0.5 |
| 6 | 5.8 | 4.405 | 32.520 | 6.95 | 0.12 | 25.773 | 0.007 | 1465. | -0.5 |
| 8 | 8.1 | 4.402 | 32.519 | 6.95 | 0.12 | 25.773 | 0.012 | 1465. | -0.5 |
| 10 | 10.1 | 4.403 | 32.520 | 6.95 | 0.12 | 25.773 | 0.016 | 1465. | -0.5 |
| 12 | 11.9 | 4.402 | 32.520 | 6.96 | 0.12 | 25.773 | 0.020 | 1465. | 0.3 |
| 14 | 13.9 | 4.405 | 32.520 | 6.98 | 0.12 | 25.773 | 0.025 | 1465. | 0.5 |
| 16 | 16.0 | 4.405 | 32.519 | 6.98 | 0.12 | 25.773 | 0.029 | 1465. | 0.6 |
| 18 | 18.1 | 4.416 | 32.522 | 6.98 | 0.12 | 25.774 | 0.034 | 1465. | 0.9 |
| 20 | 20.1 | 4.413 | 32.521 | 6.99 | 0.12 | 25.773 | 0.038 | 1465. | 1.1 |
| 22 | 22.0 | 4.420 | 32.524 | 6.98 | 0.12 | 25.774 | 0.043 | 1466. | 1.4 |
| 24 | 23.8 | 4.431 | 32.526 | 6.98 | 0.12 | 25.775 | 0.047 | 1466. | 1.5 |
| 26 | 25.8 | 4.448 | 32.533 | 6.98 | 0.11 | 25.779 | 0.051 | 1466. | 2.0 |
| 28 | 27.8 | 4.463 | 32.535 | 6.98 | 0.11 | 25.779 | 0.055 | 1466. | 2.8 |
| 30 | 30.1 | 4.485 | 32.544 | 6.97 | 0.11 | 25.784 | 0.060 | 1466. | 3.9 |
| 32 | 32.2 | 4.490 | 32.543 | 6.97 | 0.11 | 25.782 | 0.065 | 1466. | 5.1 |
| 34 | 34.1 | 4.578 | 32.577 | 6.93 | 0.11 | 25.801 | 0.069 | 1466. | 6.0 |
| 36 | 36.0 | 4.746 | 32.626 | 6.86 | 0.10 | 25.822 | 0.073 | 1467. | 6.8 |
| 38 | 38.0 | 4.971 | 32.722 | 6.78 | 0.10 | 25.873 | 0.078 | 1468. | 7.5 |
| 40 | 39.9 | 5.219 | 32.826 | 6.69 | 0.09 | 25.928 | 0.082 | 1470. | 7.8 |
| 42 | 42.0 | 5.393 | 32.895 | 6.61 | 0.09 | 25.962 | 0.086 | 1470. | 7.7 |
| 44 | 44.0 | 5.534 | 32.958 | 6.54 | 0.08 | 25.996 | 0.090 | 1471. | 7.3 |
| 46 | 46.0 | 5.724 | 33.054 | 6.46 | 0.08 | 26.049 | 0.094 | 1472. | 6.7 |
| 48 | 48.1 | 5.820 | 33.096 | 6.43 | 0.08 | 26.070 | 0.098 | 1472. | 5.9 |
| 49 | 49.9 | 5.828 | 33.100 | 6.44 | 0.08 | 26.073 | 0.101 | 1472. | 5.2 |
| 51 | 51.8 | 5.841 | 33.117 | 6.44 | 0.07 | 26.085 | 0.105 | 1473. | 4.3 |
| 53 | 53.9 | 5.883 | 33.145 | 6.41 | 0.07 | 26.102 | 0.109 | 1473. | 3.5 |
| 56 | 56.0 | 5.909 | 33.153 | 6.40 | 0.07 | 26.104 | 0.113 | 1473. | 3.1 |
| 58 | 58.1 | 5.926 | 33.155 | 6.40 | 0.07 | 26.104 | 0.117 | 1473. | 2.8 |
| 60 | 60.0 | 5.901 | 33.155 | 6.43 | 0.07 | 26.107 | 0.121 | 1473. | 2.3 |
| 61 | 61.8 | 5.887 | 33.160 | 6.44 | 0.07 | 26.113 | 0.124 | 1473. | 1.8 |
| 63 | 63.8 | 5.903 | 33.166 | 6.42 | 0.07 | 26.116 | 0.128 | 1473. | 1.6 |
| 65 | 66.0 | 5.910 | 33.167 | 6.42 | 0.07 | 26.116 | 0.132 | 1473. | 1.6 |
| 68 | 68.2 | 5.917 | 33.168 | 6.43 | 0.07 | 26.116 | 0.136 | 1473. | 1.3 |
| 70 | 70.1 | 5.917 | 33.168 | 6.43 | 0.07 | 26.115 | 0.140 | 1473. | 1.2 |
| 71 | 72.0 | 5.912 | 33.168 | 6.43 | 0.07 | 26.116 | 0.144 | 1473. | 1.2 |
| 73 | 74.1 | 5.912 | 33.172 | 6.44 | 0.07 | 26.119 | 0.147 | 1473. | 1.4 |
| 75 | 75.9 | 5.920 | 33.174 | 6.43 | 0.07 | 26.120 | 0.151 | 1473. | 1.4 |
| 77 | 77.9 | 5.936 | 33.179 | 6.41 | 0.06 | 26.122 | 0.155 | 1473. | 1.3 |
| 79 | 80.1 | 5.958 | 33.184 | 6.40 | 0.06 | 26.123 | 0.159 | 1474. | 1.2 |
| 81 | 82.1 | 5.968 | 33.186 | 6.39 | 0.06 | 26.124 | 0.163 | 1474. | 1.0 |
| 83 | 84.0 | 5.975 | 33.187 | 6.40 | 0.06 | 26.123 | 0.166 | 1474. | 1.0 |
| 85 | 85.8 | 5.980 | 33.188 | 6.39 | 0.06 | 26.124 | 0.170 | 1474. | 0.9 |
| 87 | 87.9 | 5.999 | 33.193 | 6.38 | 0.06 | 26.125 | 0.174 | 1474. | 1.1 |
| 89 | 90.0 | 6.014 | 33.195 | 6.39 | 0.06 | 26.125 | 0.178 | 1474. | 1.6 |
| 91 | 92.2 | 6.031 | 33.198 | 6.39 | 0.06 | 26.126 | 0.182 | 1474. | 2.0 |
| 93 | 93.9 | 6.040 | 33.201 | 6.37 | 0.06 | 26.127 | 0.185 | 1474. | 2.3 |
| 95 | 96.0 | 6.071 | 33.210 | 6.35 | 0.06 | 26.130 | 0.189 | 1474. | 2.6 |
| 97 | 98.1 | 6.172 | 33.242 | 6.32 | 0.07 | 26.142 | 0.193 | 1475. | 2.9 |
| 99 | 100.1 | 6.240 | 33.258 | 6.28 | 0.07 | 26.146 | 0.197 | 1475. | 3.0 |

| SHIP OC | CRUISE 181 | STATION 20 | DATE 06 FEB 1987 | EST 1357 | LATITUDE 42°38.1'N | LONGITUDE 68°46.1'W | DEPTH 181 | | |
|------------|---------------|---------------|---------------------|-------------|------------------------|----------------------------|--|--------------|----------|
| DEPTH m | PRESS dbar | TEMP °C | SALIN psu | OXY ml/l | ATN m ⁻¹ | SIGT gm/cm ³ | DYHT A 10m ² /s ² | S SPD m/s | N cph |
| 101 | 102.1 | 6.277 | 33.270 | 6.25 | 0.07 | 26.151 | 0.200 | 1475. | 3.1 |
| 103 | 104.0 | 6.339 | 33.290 | 6.22 | 0.07 | 26.159 | 0.204 | 1476. | 3.0 |
| 105 | 105.9 | 6.391 | 33.308 | 6.19 | 0.07 | 26.166 | 0.207 | 1476. | 2.8 |
| 107 | 108.0 | 6.437 | 33.318 | 6.16 | 0.08 | 26.169 | 0.211 | 1476. | 2.9 |
| 109 | 109.9 | 6.468 | 33.330 | 6.13 | 0.08 | 26.174 | 0.215 | 1476. | 3.0 |
| 111 | 112.0 | 6.513 | 33.341 | 6.10 | 0.08 | 26.177 | 0.219 | 1477. | 3.3 |
| 113 | 114.1 | 6.563 | 33.358 | 6.06 | 0.08 | 26.184 | 0.223 | 1477. | 3.6 |
| 115 | 116.1 | 6.616 | 33.375 | 6.04 | 0.09 | 26.190 | 0.226 | 1477. | 3.7 |
| 117 | 118.2 | 6.690 | 33.406 | 6.01 | 0.09 | 26.205 | 0.230 | 1477. | 3.7 |
| 119 | 120.1 | 6.857 | 33.461 | 5.94 | 0.10 | 26.226 | 0.234 | 1478. | 3.5 |
| 121 | 122.0 | 6.900 | 33.471 | 5.91 | 0.10 | 26.228 | 0.237 | 1478. | 3.2 |
| 123 | 123.9 | 6.931 | 33.481 | 5.89 | 0.10 | 26.232 | 0.240 | 1479. | 3.0 |
| 125 | 126.1 | 6.949 | 33.486 | 5.87 | 0.10 | 26.233 | 0.244 | 1479. | 3.0 |
| 127 | 128.1 | 6.959 | 33.489 | 5.86 | 0.10 | 26.235 | 0.248 | 1479. | 3.1 |
| 129 | 130.2 | 6.973 | 33.474 | 5.86 | 0.11 | 26.237 | 0.252 | 1479. | 3.7 |
| 131 | 132.3 | 7.027 | 33.518 | 5.84 | 0.11 | 26.248 | 0.255 | 1479. | 4.2 |
| 133 | 134.0 | 7.139 | 33.566 | 5.80 | 0.11 | 26.271 | 0.258 | 1480. | 4.5 |
| 135 | 136.0 | 7.210 | 33.593 | 5.75 | 0.12 | 26.282 | 0.262 | 1480. | 4.7 |
| 137 | 138.0 | 7.247 | 33.621 | 5.71 | 0.14 | 26.298 | 0.265 | 1480. | 4.5 |
| 139 | 140.0 | 7.274 | 33.649 | 5.68 | 0.15 | 26.317 | 0.269 | 1480. | 4.2 |
| 141 | 141.9 | 7.311 | 33.669 | 5.65 | 0.16 | 26.327 | 0.272 | 1481. | 3.6 |
| 143 | 143.8 | 7.322 | 33.674 | 5.64 | 0.16 | 26.330 | 0.275 | 1481. | 3.1 |
| 145 | 145.9 | 7.330 | 33.678 | 5.63 | 0.16 | 26.332 | 0.279 | 1481. | 2.6 |
| 147 | 148.0 | 7.341 | 33.682 | 5.61 | 0.16 | 26.334 | 0.282 | 1481. | 2.3 |
| 149 | 150.0 | 7.352 | 33.686 | 5.58 | 0.16 | 26.336 | 0.286 | 1481. | 2.4 |
| 151 | 151.9 | 7.364 | 33.692 | 5.56 | 0.16 | 26.338 | 0.289 | 1481. | 2.7 |
| 153 | 154.0 | 7.379 | 33.700 | 5.53 | 0.17 | 26.342 | 0.293 | 1481. | 3.1 |
| 155 | 156.0 | 7.405 | 33.716 | 5.50 | 0.18 | 26.351 | 0.296 | 1481. | 3.4 |
| 157 | 158.0 | 7.444 | 33.738 | 5.47 | 0.20 | 26.363 | 0.299 | 1481. | 3.6 |
| 159 | 160.1 | 7.461 | 33.748 | 5.28 | 0.22 | 26.368 | 0.303 | 1481. | 3.8 |
| 161 | 162.2 | 7.496 | 33.772 | 5.06 | 0.26 | 26.383 | 0.306 | 1482. | 3.9 |
| 163 | 164.0 | 7.535 | 33.790 | 5.03 | 0.29 | 26.391 | 0.309 | 1482. | 3.9 |
| 164 | 165.3 | 7.555 | 33.801 | 5.01 | 0.32 | 26.397 | 0.311 | 1482. | 3.8 |
| 165 | 166.0 | 7.562 | 33.804 | 5.00 | 0.33 | 26.398 | 0.313 | 1482. | 3.6 |
| 166 | 166.9 | 7.593 | 33.818 | 4.99 | 0.34 | 26.405 | 0.314 | 1482. | 3.2 |
| 167 | 168.0 | 7.612 | 33.826 | 4.99 | 0.35 | 26.409 | 0.316 | 1482. | 2.7 |
| 168 | 168.9 | 7.629 | 33.829 | 4.99 | 0.36 | 26.409 | 0.317 | 1482. | 2.3 |
| 169 | 170.0 | 7.648 | 33.835 | 4.99 | 0.39 | 26.411 | 0.319 | 1482. | 1.9 |
| 170 | 171.0 | 7.648 | 33.835 | 4.99 | 0.39 | 26.410 | 0.321 | 1482. | 1.2 |
| 170 | 171.9 | 7.651 | 33.835 | 5.01 | 0.40 | 26.410 | 0.322 | 1483. | 1.2 |
| 172 | 173.0 | 7.652 | 33.835 | 5.02 | 0.40 | 26.410 | 0.324 | 1483. | 1.2 |
| 173 | 174.1 | 7.652 | 33.835 | 5.04 | 0.40 | 26.410 | 0.326 | 1483. | 1.2 |
| 173 | 174.5 | 7.652 | 33.834 | 5.07 | 0.39 | 26.409 | 0.327 | 1483. | 1.2 |

| SHIP OC | CRUISE 181 | STATION 21 | DATE 06 FEB 1987 | EST 1435 | LATITUDE 42°40.2'N | LONGITUDE 68°48.1'W | DEPTH 167 | | |
|------------|---------------|---------------|---------------------|-------------|------------------------|----------------------------|--|--------------|----------|
| DEPTH m | PRESS dbar | TEMP °C | SALIN psu | OXY ml/l | ATN m ⁻¹ | SIGT gm/cm ³ | DYHT A 10m ² /s ² | S SPD m/s | N cph |
| 3 | 2.7 | 4.756 | 32.685 | 6.82 | 0.11 | 25.867 | 0.000 | 1467. | -0.1 |
| 4 | 3.8 | 4.753 | 32.685 | 6.84 | 0.11 | 25.867 | 0.002 | 1467. | -0.1 |
| 6 | 6.0 | 4.753 | 32.685 | 6.85 | 0.11 | 25.868 | 0.007 | 1467. | -0.1 |
| 8 | 8.1 | 4.758 | 32.686 | 6.90 | 0.11 | 25.867 | 0.012 | 1467. | -0.1 |
| 10 | 10.0 | 4.761 | 32.685 | 6.91 | 0.11 | 25.867 | 0.015 | 1467. | -0.1 |
| 12 | 12.0 | 4.761 | 32.686 | 7.02 | 0.11 | 25.867 | 0.020 | 1467. | -0.3 |
| 14 | 13.9 | 4.759 | 32.686 | 7.02 | 0.11 | 25.867 | 0.024 | 1467. | -0.3 |
| 16 | 16.1 | 4.758 | 32.685 | 6.93 | 0.11 | 25.867 | 0.028 | 1467. | -0.2 |
| 18 | 18.0 | 4.758 | 32.686 | 6.94 | 0.11 | 25.867 | 0.032 | 1467. | 0.2 |
| 20 | 19.8 | 4.758 | 32.685 | 7.26 | 0.11 | 25.867 | 0.036 | 1467. | 0.1 |
| 22 | 21.9 | 4.759 | 32.685 | 7.16 | 0.11 | 25.867 | 0.041 | 1467. | 0.3 |
| 24 | 23.9 | 4.761 | 32.685 | 7.14 | 0.11 | 25.867 | 0.045 | 1467. | 0.5 |
| 26 | 26.1 | 4.762 | 32.686 | 6.97 | 0.11 | 25.867 | 0.050 | 1467. | 0.9 |
| 28 | 28.2 | 4.762 | 32.686 | 6.97 | 0.11 | 25.867 | 0.054 | 1467. | 2.5 |
| 30 | 29.9 | 4.771 | 32.688 | 7.26 | 0.11 | 25.868 | 0.058 | 1467. | 4.5 |
| 32 | 32.0 | 4.779 | 32.689 | 7.38 | 0.11 | 25.868 | 0.062 | 1467. | 6.1 |
| 34 | 34.0 | 4.812 | 32.700 | 7.36 | 0.11 | 25.873 | 0.067 | 1468. | 7.1 |
| 36 | 36.1 | 5.040 | 32.791 | 7.24 | 0.11 | 25.920 | 0.071 | 1469. | 7.5 |
| 38 | 38.0 | 5.422 | 32.974 | 7.06 | 0.10 | 26.021 | 0.075 | 1470. | 7.6 |
| 40 | 40.1 | 5.582 | 33.073 | 6.95 | 0.10 | 26.081 | 0.079 | 1471. | 7.3 |
| 42 | 42.0 | 5.650 | 33.099 | 6.88 | 0.09 | 26.094 | 0.082 | 1472. | 6.6 |
| 44 | 44.0 | 5.670 | 33.104 | 6.82 | 0.09 | 26.095 | 0.086 | 1472. | 5.3 |
| 46 | 46.0 | 5.726 | 33.119 | 6.77 | 0.09 | 26.100 | 0.090 | 1472. | 3.4 |
| 47 | 47.9 | 5.800 | 33.133 | 6.74 | 0.10 | 26.102 | 0.094 | 1472. | 2.0 |
| 50 | 50.0 | 5.881 | 33.149 | 6.38 | 0.10 | 26.105 | 0.098 | 1473. | 1.6 |
| 52 | 51.9 | 5.908 | 33.155 | 6.31 | 0.10 | 26.106 | 0.101 | 1473. | 1.5 |
| 54 | 54.0 | 5.906 | 33.153 | 6.31 | 0.10 | 26.105 | 0.105 | 1473. | 1.4 |
| 56 | 56.1 | 5.894 | 33.151 | 6.32 | 0.10 | 26.105 | 0.109 | 1473. | 1.4 |
| 58 | 58.0 | 5.882 | 33.152 | 6.34 | 0.10 | 26.107 | 0.113 | 1473. | 1.4 |
| 60 | 60.1 | 5.905 | 33.160 | 6.36 | 0.10 | 26.111 | 0.117 | 1473. | 1.4 |
| 61 | 61.9 | 5.933 | 33.167 | 6.37 | 0.10 | 26.112 | 0.120 | 1473. | 1.5 |
| 63 | 63.9 | 5.942 | 33.167 | 6.40 | 0.10 | 26.112 | 0.124 | 1473. | 1.5 |
| 66 | 66.0 | 5.952 | 33.171 | 6.41 | 0.10 | 26.114 | 0.128 | 1473. | 1.4 |
| 67 | 67.9 | 5.979 | 33.175 | 6.40 | 0.10 | 26.114 | 0.132 | 1473. | 1.3 |
| 69 | 70.0 | 6.002 | 33.181 | 6.39 | 0.10 | 26.115 | 0.136 | 1474. | 1.3 |
| 71 | 72.1 | 6.024 | 33.187 | 6.38 | 0.10 | 26.117 | 0.140 | 1474. | 1.5 |
| 73 | 74.0 | 6.032 | 33.189 | 6.38 | 0.10 | 26.118 | 0.143 | 1474. | 1.5 |
| 75 | 76.0 | 6.045 | 33.193 | 6.38 | 0.10 | 26.120 | 0.147 | 1474. | 1.5 |
| 77 | 78.0 | 6.053 | 33.196 | 6.37 | 0.10 | 26.121 | 0.151 | 1474. | 1.5 |
| 80 | 80.2 | 6.076 | 33.204 | 6.36 | 0.10 | 26.124 | 0.155 | 1474. | 1.5 |
| 81 | 82.0 | 6.087 | 33.206 | 6.38 | 0.10 | 26.125 | 0.159 | 1474. | 1.5 |
| 83 | 83.9 | 6.087 | 33.207 | 6.40 | 0.10 | 26.125 | 0.162 | 1474. | 1.5 |
| 85 | 86.0 | 6.091 | 33.209 | 6.43 | 0.10 | 26.127 | 0.166 | 1474. | 1.5 |
| 87 | 88.0 | 6.081 | 33.209 | 6.45 | 0.10 | 26.128 | 0.170 | 1474. | 1.6 |
| 89 | 90.1 | 6.070 | 33.209 | 6.45 | 0.10 | 26.129 | 0.174 | 1474. | 1.7 |
| 91 | 91.9 | 6.035 | 33.206 | 6.45 | 0.09 | 26.131 | 0.177 | 1474. | 1.8 |
| 93 | 94.0 | 5.984 | 33.202 | 6.46 | 0.08 | 26.134 | 0.181 | 1474. | 2.1 |
| 95 | 96.1 | 5.969 | 33.202 | 6.61 | 0.08 | 26.136 | 0.185 | 1474. | 2.3 |
| 97 | 97.9 | 5.970 | 33.204 | 6.83 | 0.08 | 26.137 | 0.188 | 1474. | 2.4 |
| 99 | 100.0 | 6.031 | 33.219 | 6.78 | 0.08 | 26.142 | 0.192 | 1474. | 2.5 |

| SHIP OC | CRUISE 181 | STATION 21 | DATE 06 FEB 1987 | EST 1435 | LATITUDE 42°40.2'N | LONGITUDE 68°48.1'W | DEPTH 167 | | |
|------------|---------------|---------------|---------------------|-------------|------------------------|----------------------------|--|--------------|----------|
| DEPTH m | PRESS dbar | TEMP °C | SALIN psu | OXY ml/l | ATN m ⁻¹ | SIGT gm/cm ³ | DYHT A 10m ² /s ² | S SPD m/s | N cph |
| 101 | 102.0 | 6.245 | 33.266 | 6.67 | 0.09 | 26.152 | 0.196 | 1475. | 2.8 |
| 103 | 104.0 | 6.319 | 33.284 | 6.23 | 0.09 | 26.157 | 0.200 | 1476. | 3.0 |
| 105 | 106.0 | 6.300 | 33.281 | 6.18 | 0.09 | 26.157 | 0.204 | 1475. | 3.4 |
| 107 | 108.1 | 6.320 | 33.292 | 6.13 | 0.09 | 26.163 | 0.208 | 1476. | 4.1 |
| 109 | 110.1 | 6.426 | 33.324 | 6.07 | 0.10 | 26.174 | 0.211 | 1476. | 4.7 |
| 111 | 111.8 | 6.530 | 33.351 | 6.01 | 0.11 | 26.182 | 0.214 | 1477. | 5.0 |
| 113 | 113.9 | 6.870 | 33.438 | 5.89 | 0.16 | 26.206 | 0.218 | 1478. | 5.1 |
| 115 | 116.2 | 7.304 | 33.570 | 5.72 | 0.20 | 26.251 | 0.222 | 1480. | 4.9 |
| 117 | 118.0 | 7.319 | 33.589 | 5.66 | 0.19 | 26.264 | 0.225 | 1480. | 4.6 |
| 119 | 119.9 | 7.300 | 33.589 | 5.63 | 0.19 | 26.267 | 0.229 | 1480. | 4.1 |
| 121 | 122.1 | 7.276 | 33.588 | 5.62 | 0.18 | 26.269 | 0.233 | 1480. | 3.5 |
| 123 | 123.8 | 7.260 | 33.589 | 5.62 | 0.18 | 26.272 | 0.236 | 1480. | 3.0 |
| 125 | 126.1 | 7.252 | 33.590 | 5.62 | 0.18 | 26.274 | 0.240 | 1480. | 3.1 |
| 127 | 128.1 | 7.211 | 33.590 | 5.64 | 0.16 | 26.280 | 0.243 | 1480. | 3.3 |
| 129 | 129.9 | 7.195 | 33.607 | 5.63 | 0.17 | 26.295 | 0.246 | 1480. | 3.3 |
| 131 | 131.9 | 7.231 | 33.624 | 5.61 | 0.23 | 26.304 | 0.250 | 1480. | 3.3 |
| 133 | 134.0 | 7.270 | 33.642 | 5.58 | 0.26 | 26.312 | 0.253 | 1480. | 3.1 |
| 135 | 136.0 | 7.278 | 33.645 | 5.55 | 0.27 | 26.313 | 0.257 | 1480. | 2.8 |
| 137 | 138.0 | 7.300 | 33.652 | 5.53 | 0.23 | 26.316 | 0.260 | 1480. | 2.5 |
| 139 | 140.2 | 7.331 | 33.665 | 5.51 | 0.23 | 26.322 | 0.264 | 1481. | 2.5 |
| 141 | 141.9 | 7.347 | 33.669 | 5.49 | 0.23 | 26.323 | 0.267 | 1481. | 3.0 |
| 143 | 144.0 | 7.361 | 33.675 | 5.38 | 0.24 | 26.325 | 0.271 | 1481. | 3.4 |
| 145 | 145.9 | 7.380 | 33.685 | 5.22 | 0.26 | 26.331 | 0.274 | 1481. | 3.7 |
| 147 | 148.1 | 7.437 | 33.712 | 5.08 | 0.29 | 26.344 | 0.278 | 1481. | 3.9 |
| 149 | 150.1 | 7.486 | 33.752 | 5.07 | 0.35 | 26.368 | 0.281 | 1481. | 4.0 |
| 150 | 151.3 | 7.503 | 33.761 | 5.05 | 0.35 | 26.373 | 0.283 | 1482. | 4.1 |
| 151 | 152.0 | 7.505 | 33.762 | 5.05 | 0.34 | 26.373 | 0.284 | 1482. | 3.7 |
| 152 | 153.1 | 7.506 | 33.763 | 5.05 | 0.33 | 26.374 | 0.286 | 1482. | 2.9 |
| 153 | 154.0 | 7.506 | 33.762 | 5.04 | 0.34 | 26.374 | 0.287 | 1482. | 1.7 |
| 154 | 155.0 | 7.505 | 33.765 | 5.05 | 0.32 | 26.376 | 0.289 | 1482. | 1.5 |
| 155 | 155.9 | 7.506 | 33.765 | 5.06 | 0.31 | 26.376 | 0.291 | 1482. | 1.5 |
| 156 | 157.0 | 7.505 | 33.766 | 5.08 | 0.31 | 26.376 | 0.292 | 1482. | 1.4 |
| 157 | 158.0 | 7.503 | 33.767 | 5.10 | 0.31 | 26.378 | 0.294 | 1482. | 1.4 |
| 158 | 159.1 | 7.504 | 33.768 | 5.11 | 0.30 | 26.378 | 0.296 | 1482. | 1.4 |
| 159 | 160.0 | 7.504 | 33.767 | 5.12 | 0.30 | 26.378 | 0.297 | 1482. | 1.4 |
| 160 | 160.8 | 7.504 | 33.768 | 5.13 | 0.30 | 26.378 | 0.299 | 1482. | 1.4 |
| 161 | 162.0 | 7.505 | 33.769 | 5.15 | 0.30 | 26.379 | 0.301 | 1482. | 1.4 |

| SHIP OC | CRUISE 181 | STATION 22 | DATE 06 FEB 1987 | EST 1543 | LATITUDE 42°45.7'N | LONGITUDE 68°51.9'W | DEPTH 156 | | |
|------------|---------------|---------------|---------------------|-------------|------------------------|----------------------------|--|--------------|----------|
| DEPTH m | PRESS dbar | TEMP °C | SALIN psu | OXY ml/l | ATN m ⁻¹ | SIGT gm/cm ³ | DYHT A 10m ² /s ² | S SPD m/s | N cph |
| 3 | 2.8 | 4.777 | 32.725 | 7.35 | 0.12 | 25.897 | 0.000 | 1467. | 5.0 |
| 4 | 4.0 | 4.781 | 32.724 | 7.36 | 0.12 | 25.895 | 0.003 | 1467. | 5.0 |
| 6 | 6.1 | 4.783 | 32.724 | 7.38 | 0.12 | 25.895 | 0.007 | 1467. | 5.0 |
| 8 | 8.1 | 4.789 | 32.725 | 7.38 | 0.11 | 25.896 | 0.011 | 1467. | 5.0 |
| 10 | 10.0 | 4.789 | 32.724 | 7.38 | 0.11 | 25.894 | 0.015 | 1467. | 5.0 |
| 12 | 12.0 | 4.796 | 32.723 | 7.35 | 0.12 | 25.893 | 0.019 | 1467. | 5.7 |
| 14 | 14.0 | 4.911 | 32.755 | 7.30 | 0.11 | 25.906 | 0.023 | 1468. | 6.1 |
| 16 | 16.1 | 5.310 | 32.936 | 7.14 | 0.11 | 26.004 | 0.028 | 1470. | 6.3 |
| 18 | 17.9 | 5.429 | 32.993 | 7.08 | 0.11 | 26.036 | 0.031 | 1470. | 6.2 |
| 20 | 20.1 | 5.431 | 32.995 | 7.08 | 0.11 | 26.037 | 0.036 | 1470. | 5.9 |
| 22 | 21.8 | 5.448 | 33.005 | 7.08 | 0.11 | 26.043 | 0.039 | 1470. | 5.2 |
| 24 | 24.0 | 5.521 | 33.035 | 7.04 | 0.11 | 26.058 | 0.043 | 1471. | 4.1 |
| 26 | 26.0 | 5.544 | 33.046 | 7.02 | 0.10 | 26.064 | 0.047 | 1471. | 3.8 |
| 28 | 27.9 | 5.595 | 33.068 | 7.00 | 0.10 | 26.075 | 0.051 | 1471. | 3.7 |
| 30 | 30.2 | 5.669 | 33.101 | 6.97 | 0.10 | 26.092 | 0.055 | 1472. | 3.4 |
| 32 | 31.8 | 5.693 | 33.109 | 6.95 | 0.10 | 26.096 | 0.058 | 1472. | 3.0 |
| 34 | 34.1 | 5.712 | 33.115 | 6.94 | 0.10 | 26.099 | 0.063 | 1472. | 2.6 |
| 36 | 35.8 | 5.725 | 33.120 | 6.94 | 0.10 | 26.101 | 0.066 | 1472. | 2.1 |
| 38 | 38.2 | 5.737 | 33.123 | 6.92 | 0.10 | 26.102 | 0.070 | 1472. | 1.7 |
| 39 | 39.8 | 5.744 | 33.124 | 6.91 | 0.10 | 26.102 | 0.074 | 1472. | 1.6 |
| 42 | 42.1 | 5.758 | 33.128 | 6.89 | 0.09 | 26.103 | 0.078 | 1472. | 1.6 |
| 44 | 44.0 | 5.790 | 33.135 | 6.88 | 0.09 | 26.105 | 0.082 | 1472. | 1.6 |
| 46 | 46.0 | 5.829 | 33.147 | 6.85 | 0.09 | 26.110 | 0.085 | 1472. | 1.6 |
| 48 | 48.1 | 5.835 | 33.149 | 6.87 | 0.09 | 26.111 | 0.089 | 1473. | 1.6 |
| 50 | 50.0 | 5.837 | 33.150 | 6.86 | 0.09 | 26.111 | 0.093 | 1473. | 1.5 |
| 51 | 51.9 | 5.859 | 33.156 | 6.93 | 0.09 | 26.113 | 0.096 | 1473. | 1.4 |
| 54 | 54.0 | 5.876 | 33.158 | 6.96 | 0.09 | 26.113 | 0.100 | 1473. | 1.6 |
| 56 | 56.0 | 5.897 | 33.164 | 6.93 | 0.09 | 26.115 | 0.104 | 1473. | 2.0 |
| 57 | 58.0 | 5.930 | 33.170 | 6.55 | 0.09 | 26.116 | 0.108 | 1473. | 2.3 |
| 60 | 60.0 | 5.999 | 33.184 | 6.46 | 0.10 | 26.118 | 0.112 | 1473. | 2.7 |
| 62 | 62.1 | 6.140 | 33.218 | 6.39 | 0.10 | 26.128 | 0.116 | 1474. | 3.0 |
| 63 | 64.0 | 6.322 | 33.253 | 6.33 | 0.10 | 26.132 | 0.119 | 1475. | 3.1 |
| 65 | 66.0 | 6.498 | 33.292 | 6.26 | 0.10 | 26.140 | 0.123 | 1476. | 3.2 |
| 68 | 68.2 | 6.547 | 33.316 | 6.22 | 0.10 | 26.153 | 0.127 | 1476. | 3.1 |
| 69 | 70.0 | 6.548 | 33.318 | 6.21 | 0.10 | 26.154 | 0.131 | 1476. | 2.8 |
| 71 | 72.0 | 6.556 | 33.326 | 6.20 | 0.11 | 26.159 | 0.134 | 1476. | 2.5 |
| 74 | 74.1 | 6.543 | 33.329 | 6.20 | 0.11 | 26.164 | 0.138 | 1476. | 2.1 |
| 75 | 76.0 | 6.505 | 33.323 | 6.20 | 0.12 | 26.163 | 0.142 | 1476. | 1.6 |
| 77 | 77.9 | 6.546 | 33.331 | 6.14 | 0.12 | 26.164 | 0.145 | 1476. | 1.5 |
| 79 | 79.9 | 6.581 | 33.338 | 6.12 | 0.12 | 26.166 | 0.149 | 1476. | 1.2 |
| 82 | 82.2 | 6.565 | 33.334 | 6.13 | 0.12 | 26.164 | 0.153 | 1476. | 1.1 |
| 83 | 83.8 | 6.569 | 33.337 | 6.12 | 0.12 | 26.166 | 0.156 | 1476. | 1.3 |
| 85 | 86.1 | 6.548 | 33.337 | 6.12 | 0.12 | 26.169 | 0.160 | 1476. | 1.5 |
| 87 | 88.0 | 6.547 | 33.336 | 6.11 | 0.13 | 26.168 | 0.164 | 1476. | 1.6 |
| 89 | 90.1 | 6.586 | 33.343 | 6.10 | 0.13 | 26.169 | 0.168 | 1476. | 1.8 |
| 91 | 92.0 | 6.648 | 33.359 | 6.08 | 0.12 | 26.173 | 0.171 | 1477. | 1.7 |
| 93 | 94.0 | 6.712 | 33.375 | 6.06 | 0.12 | 26.178 | 0.175 | 1477. | 1.8 |
| 95 | 96.0 | 6.712 | 33.375 | 6.06 | 0.12 | 26.178 | 0.179 | 1477. | 1.9 |
| 97 | 98.1 | 6.717 | 33.378 | 6.05 | 0.13 | 26.180 | 0.183 | 1477. | 1.8 |
| 99 | 99.9 | 6.720 | 33.380 | 6.04 | 0.13 | 26.181 | 0.186 | 1477. | 2.0 |

| SHIP OC | CRUISE 181 | STATION 22 | DATE 06 FEB 1987 | EST 1543 | LATITUDE 42°45.7'N | LONGITUDE 68°51.9'W | DEPTH 156 | | | | | | |
|------------|---------------|---------------|---------------------|-------------|------------------------|----------------------------|--|--------------|----------|--|--|--|--|
| DEPTH m | PRESS dbar | TEMP °C | SALIN psu | OXY ml/l | ATN m ⁻¹ | SIGT gm/cm ³ | DYHT A 10m ² /s ² | S SPD m/s | N cph | | | | |
| 101 | 102.1 | 6.716 | 33.386 | 6.03 | 0.14 | 26.185 | 0.190 | 1477. | 2.3 | | | | |
| 103 | 104.0 | 6.710 | 33.383 | 6.02 | 0.15 | 26.184 | 0.193 | 1477. | 2.6 | | | | |
| 105 | 106.1 | 6.731 | 33.388 | 6.01 | 0.15 | 26.185 | 0.197 | 1477. | 2.9 | | | | |
| 107 | 107.9 | 6.838 | 33.428 | 5.97 | 0.16 | 26.202 | 0.201 | 1478. | 3.0 | | | | |
| 109 | 110.0 | 6.869 | 33.439 | 5.95 | 0.17 | 26.207 | 0.204 | 1478. | 3.0 | | | | |
| 111 | 111.9 | 6.902 | 33.452 | 5.93 | 0.18 | 26.213 | 0.208 | 1478. | 2.9 | | | | |
| 113 | 114.0 | 6.924 | 33.464 | 5.92 | 0.18 | 26.219 | 0.212 | 1478. | 2.8 | | | | |
| 115 | 116.1 | 6.930 | 33.466 | 5.93 | 0.18 | 26.220 | 0.215 | 1478. | 2.5 | | | | |
| 117 | 117.9 | 6.952 | 33.473 | 5.93 | 0.19 | 26.222 | 0.219 | 1478. | 2.6 | | | | |
| 119 | 120.0 | 6.992 | 33.484 | 5.92 | 0.20 | 26.226 | 0.222 | 1479. | 2.8 | | | | |
| 121 | 122.0 | 7.028 | 33.500 | 5.91 | 0.20 | 26.233 | 0.226 | 1479. | 3.0 | | | | |
| 123 | 124.1 | 7.065 | 33.510 | 5.90 | 0.22 | 26.237 | 0.230 | 1479. | 3.0 | | | | |
| 125 | 125.9 | 7.133 | 33.534 | 5.88 | 0.23 | 26.246 | 0.233 | 1479. | 3.1 | | | | |
| 127 | 128.2 | 7.193 | 33.560 | 5.86 | 0.24 | 26.258 | 0.237 | 1480. | 3.0 | | | | |
| 129 | 129.9 | 7.215 | 33.569 | 5.84 | 0.24 | 26.263 | 0.240 | 1480. | 2.8 | | | | |
| 131 | 132.1 | 7.219 | 33.566 | 5.83 | 0.24 | 26.260 | 0.244 | 1480. | 2.7 | | | | |
| 133 | 133.8 | 7.276 | 33.587 | 5.80 | 0.26 | 26.268 | 0.247 | 1480. | 2.4 | | | | |
| 135 | 136.0 | 7.301 | 33.595 | 5.77 | 0.27 | 26.271 | 0.251 | 1480. | 2.3 | | | | |
| 137 | 138.0 | 7.321 | 33.603 | 5.76 | 0.27 | 26.274 | 0.254 | 1480. | 2.6 | | | | |
| 139 | 139.9 | 7.336 | 33.609 | 5.54 | 0.28 | 26.277 | 0.258 | 1481. | 2.9 | | | | |
| 140 | 141.2 | 7.335 | 33.610 | 5.36 | 0.29 | 26.278 | 0.260 | 1481. | 3.1 | | | | |
| 141 | 142.0 | 7.371 | 33.627 | 5.34 | 0.29 | 26.286 | 0.261 | 1481. | 3.6 | | | | |
| 142 | 143.0 | 7.419 | 33.646 | 5.32 | 0.32 | 26.295 | 0.263 | 1481. | 4.2 | | | | |
| 143 | 144.0 | 7.431 | 33.651 | 5.31 | 0.34 | 26.297 | 0.265 | 1481. | 4.6 | | | | |
| 144 | 145.0 | 7.455 | 33.667 | 5.31 | 0.35 | 26.306 | 0.267 | 1481. | 4.6 | | | | |
| 145 | 146.0 | 7.493 | 33.679 | 5.30 | 0.37 | 26.310 | 0.268 | 1481. | 4.3 | | | | |
| 146 | 147.0 | 7.541 | 33.706 | 5.28 | 0.37 | 26.325 | 0.270 | 1482. | 3.8 | | | | |
| 147 | 148.0 | 7.546 | 33.711 | 5.28 | 0.40 | 26.328 | 0.272 | 1482. | 3.4 | | | | |
| 148 | 149.0 | 7.547 | 33.711 | 5.27 | 0.41 | 26.328 | 0.273 | 1482. | 3.4 | | | | |
| 149 | 150.0 | 7.548 | 33.712 | 5.26 | 0.42 | 26.328 | 0.275 | 1482. | 3.4 | | | | |
| 150 | 151.2 | 7.548 | 33.711 | 5.24 | 0.42 | 26.328 | 0.277 | 1482. | 3.4 | | | | |
| 150 | 151.7 | 7.543 | 33.709 | 5.18 | 0.41 | 26.326 | 0.278 | 1482. | 3.4 | | | | |

| SHIP OC | CRUISE 181 | STATION 23 | DATE 06 FEB 1987 | EST 1710 | LATITUDE 42°50.7'N | LONGITUDE 68°56.3'W | DEPTH 91 | | | | | | |
|------------|---------------|---------------|---------------------|-------------|------------------------|----------------------------|--|--------------|----------|--|--|--|--|
| DEPTH m | PRESS dbar | TEMP °C | SALIN psu | OXY ml/l | ATN m ⁻¹ | SIGT gm/cm ³ | DYHT A 10m ² /s ² | S SPD m/s | N cph | | | | |
| 2 | 2.2 | 5.096 | 32.800 | 6.61 | 0.12 | 25.921 | 0.000 | 1468. | -0.6 | | | | |
| 4 | 4.0 | 5.099 | 32.800 | 6.62 | 0.12 | 25.921 | 0.004 | 1468. | -0.6 | | | | |
| 6 | 5.9 | 5.109 | 32.801 | 6.63 | 0.12 | 25.920 | 0.008 | 1468. | -0.6 | | | | |
| 8 | 7.9 | 5.119 | 32.801 | 6.63 | 0.12 | 25.919 | 0.012 | 1469. | -0.6 | | | | |
| 10 | 9.9 | 5.123 | 32.802 | 6.63 | 0.12 | 25.919 | 0.016 | 1469. | -0.6 | | | | |
| 12 | 11.9 | 5.126 | 32.802 | 6.65 | 0.12 | 25.919 | 0.020 | 1469. | -0.6 | | | | |
| 14 | 13.9 | 5.132 | 32.804 | 6.65 | 0.12 | 25.920 | 0.024 | 1469. | -0.4 | | | | |
| 16 | 15.9 | 5.133 | 32.803 | 6.64 | 0.12 | 25.919 | 0.028 | 1469. | 0.1 | | | | |
| 18 | 18.0 | 5.125 | 32.802 | 6.64 | 0.12 | 25.919 | 0.033 | 1469. | 0.5 | | | | |
| 20 | 20.3 | 5.121 | 32.801 | 6.65 | 0.12 | 25.919 | 0.037 | 1469. | 0.4 | | | | |
| 22 | 22.0 | 5.127 | 32.802 | 6.66 | 0.12 | 25.919 | 0.041 | 1469. | 0.5 | | | | |
| 24 | 23.8 | 5.161 | 32.808 | 6.65 | 0.12 | 25.920 | 0.045 | 1469. | 0.4 | | | | |
| 26 | 25.8 | 5.172 | 32.812 | 6.64 | 0.12 | 25.922 | 0.049 | 1469. | 0.3 | | | | |
| 28 | 28.1 | 5.193 | 32.811 | 6.64 | 0.12 | 25.919 | 0.054 | 1469. | -0.4 | | | | |
| 30 | 30.0 | 5.224 | 32.818 | 6.64 | 0.12 | 25.921 | 0.058 | 1469. | -0.6 | | | | |
| 32 | 31.9 | 5.238 | 32.818 | 6.63 | 0.12 | 25.919 | 0.062 | 1469. | -0.6 | | | | |
| 34 | 34.0 | 5.251 | 32.820 | 6.62 | 0.12 | 25.919 | 0.066 | 1470. | -0.7 | | | | |
| 36 | 35.8 | 5.250 | 32.819 | 6.63 | 0.13 | 25.918 | 0.070 | 1470. | 0.1 | | | | |
| 38 | 38.0 | 5.259 | 32.820 | 6.63 | 0.13 | 25.918 | 0.074 | 1470. | 0.3 | | | | |
| 40 | 40.0 | 5.289 | 32.825 | 6.62 | 0.13 | 25.918 | 0.078 | 1470. | 0.9 | | | | |
| 42 | 42.0 | 5.286 | 32.824 | 6.62 | 0.13 | 25.919 | 0.082 | 1470. | 1.5 | | | | |
| 44 | 43.9 | 5.307 | 32.830 | 6.62 | 0.13 | 25.920 | 0.086 | 1470. | 2.1 | | | | |
| 45 | 45.8 | 5.328 | 32.833 | 6.61 | 0.13 | 25.920 | 0.090 | 1470. | 2.6 | | | | |
| 48 | 47.9 | 5.362 | 32.844 | 6.58 | 0.13 | 25.925 | 0.095 | 1470. | 3.0 | | | | |
| 50 | 50.1 | 5.476 | 32.870 | 6.54 | 0.14 | 25.933 | 0.099 | 1471. | 3.1 | | | | |
| 52 | 52.2 | 5.600 | 32.904 | 6.50 | 0.14 | 25.945 | 0.104 | 1471. | 3.1 | | | | |
| 54 | 54.0 | 5.684 | 32.930 | 6.46 | 0.13 | 25.956 | 0.107 | 1472. | 3.0 | | | | |
| 55 | 55.8 | 5.697 | 32.937 | 6.45 | 0.13 | 25.959 | 0.111 | 1472. | 2.6 | | | | |
| 57 | 57.8 | 5.699 | 32.939 | 6.44 | 0.13 | 25.961 | 0.115 | 1472. | 2.0 | | | | |
| 60 | 60.1 | 5.702 | 32.941 | 6.45 | 0.13 | 25.962 | 0.120 | 1472. | 1.4 | | | | |
| 62 | 62.1 | 5.699 | 32.938 | 6.45 | 0.13 | 25.960 | 0.124 | 1472. | 0.8 | | | | |
| 63 | 64.0 | 5.693 | 32.934 | 6.45 | 0.13 | 25.958 | 0.128 | 1472. | 0.6 | | | | |
| 66 | 66.1 | 5.703 | 32.939 | 6.46 | 0.13 | 25.960 | 0.132 | 1472. | 0.9 | | | | |
| 68 | 68.2 | 5.703 | 32.940 | 6.46 | 0.13 | 25.961 | 0.136 | 1472. | 1.4 | | | | |
| 69 | 69.8 | 5.704 | 32.940 | 6.46 | 0.13 | 25.961 | 0.140 | 1472. | 1.9 | | | | |
| 71 | 71.8 | 5.709 | 32.943 | 6.46 | 0.13 | 25.963 | 0.144 | 1472. | 2.4 | | | | |
| 73 | 74.0 | 5.729 | 32.949 | 6.45 | 0.13 | 25.966 | 0.148 | 1472. | 2.7 | | | | |
| 75 | 75.3 | 5.753 | 32.965 | 6.45 | 0.13 | 25.975 | 0.151 | 1472. | 2.9 | | | | |
| 75 | 76.1 | 5.769 | 32.972 | 6.45 | 0.13 | 25.979 | 0.152 | 1472. | 3.2 | | | | |
| 76 | 76.9 | 5.793 | 32.984 | 6.44 | 0.13 | 25.985 | 0.154 | 1473. | 3.2 | | | | |
| 77 | 78.0 | 5.802 | 32.984 | 6.43 | 0.13 | 25.984 | 0.156 | 1473. | 3.0 | | | | |
| 78 | 79.0 | 5.813 | 32.985 | 6.43 | 0.13 | 25.984 | 0.158 | 1473. | 2.8 | | | | |
| 79 | 80.0 | 5.831 | 32.997 | 6.43 | 0.13 | 25.991 | 0.160 | 1473. | 3.1 | | | | |
| 80 | 81.0 | 5.820 | 32.992 | 6.43 | 0.13 | 25.988 | 0.162 | 1473. | 3.5 | | | | |
| 81 | 82.0 | 5.822 | 32.995 | 6.42 | 0.13 | 25.991 | 0.164 | 1473. | 3.9 | | | | |
| 82 | 82.9 | 5.846 | 33.011 | 6.41 | 0.14 | 26.000 | 0.166 | 1473. | 3.9 | | | | |
| 83 | 84.1 | 5.891 | 33.031 | 6.40 | 0.14 | 26.011 | 0.169 | 1473. | 3.9 | | | | |
| 84 | 84.8 | 5.918 | 33.041 | 6.39 | 0.15 | 26.015 | 0.170 | 1473. | 3.9 | | | | |
| 85 | 86.1 | 5.951 | 33.055 | 6.39 | 0.15 | 26.022 | 0.173 | 1473. | 3.9 | | | | |

| SHIP OC | CRUISE 181 | STATION 24 | DATE 06 FEB 1987 | EST 1827 | LATITUDE 42°47.0'N | LONGITUDE 69°05.2'W | DEPTH 178 | | | | | | | | | | | | | |
|------------|---------------|---------------|---------------------|-------------|------------------------|----------------------------|--|--------------|----------|--|--|--|--|--|--|--|--|--|--|--|
| DEPTH m | PRESS dbar | TEMP °C | SALIN psu | OXY ml/l | ATN m ⁻¹ | SIGT gm/cm ³ | DYHT A 10m ² /s ² | S SPD m/s | N cph | | | | | | | | | | | |
| 2 | 2.1 | 5.090 | 32.894 | 6.60 | 0.13 | 25.996 | 0.000 | 1468. | 1.6 | | | | | | | | | | | |
| 4 | 4.0 | 5.097 | 32.894 | 6.61 | 0.13 | 25.995 | 0.004 | 1469. | 1.6 | | | | | | | | | | | |
| 6 | 5.9 | 5.093 | 32.894 | 6.63 | 0.13 | 25.996 | 0.008 | 1469. | 1.6 | | | | | | | | | | | |
| 8 | 8.0 | 5.108 | 32.900 | 6.63 | 0.13 | 25.999 | 0.012 | 1469. | 1.6 | | | | | | | | | | | |
| 10 | 10.0 | 5.122 | 32.903 | 6.63 | 0.13 | 25.999 | 0.016 | 1469. | 1.6 | | | | | | | | | | | |
| 12 | 12.0 | 5.127 | 32.903 | 6.65 | 0.13 | 25.999 | 0.020 | 1469. | 2.1 | | | | | | | | | | | |
| 14 | 14.0 | 5.129 | 32.905 | 6.62 | 0.13 | 26.000 | 0.024 | 1469. | 2.5 | | | | | | | | | | | |
| 16 | 16.0 | 5.161 | 32.913 | 6.61 | 0.13 | 26.003 | 0.028 | 1469. | 2.8 | | | | | | | | | | | |
| 18 | 18.0 | 5.214 | 32.931 | 6.59 | 0.13 | 26.011 | 0.032 | 1469. | 2.9 | | | | | | | | | | | |
| 20 | 19.9 | 5.338 | 32.966 | 6.56 | 0.13 | 26.025 | 0.035 | 1470. | 3.0 | | | | | | | | | | | |
| 22 | 21.7 | 5.459 | 32.992 | 6.51 | 0.13 | 26.031 | 0.039 | 1470. | 2.9 | | | | | | | | | | | |
| 24 | 24.0 | 5.478 | 32.995 | 6.51 | 0.13 | 26.032 | 0.043 | 1471. | 2.7 | | | | | | | | | | | |
| 26 | 26.3 | 5.502 | 33.002 | 6.52 | 0.12 | 26.034 | 0.048 | 1471. | 2.5 | | | | | | | | | | | |
| 28 | 28.1 | 5.538 | 33.014 | 6.51 | 0.12 | 26.040 | 0.052 | 1471. | 2.2 | | | | | | | | | | | |
| 30 | 29.8 | 5.565 | 33.022 | 6.49 | 0.12 | 26.042 | 0.055 | 1471. | 2.0 | | | | | | | | | | | |
| 32 | 32.1 | 5.583 | 33.028 | 6.48 | 0.12 | 26.045 | 0.060 | 1471. | 1.9 | | | | | | | | | | | |
| 34 | 34.0 | 5.643 | 33.042 | 6.46 | 0.11 | 26.049 | 0.063 | 1471. | 1.6 | | | | | | | | | | | |
| 36 | 35.8 | 5.679 | 33.045 | 6.45 | 0.11 | 26.047 | 0.067 | 1472. | 1.3 | | | | | | | | | | | |
| 38 | 38.0 | 5.684 | 33.046 | 6.45 | 0.11 | 26.048 | 0.071 | 1472. | 1.0 | | | | | | | | | | | |
| 40 | 40.2 | 5.713 | 33.053 | 6.44 | 0.11 | 26.049 | 0.075 | 1472. | 0.7 | | | | | | | | | | | |
| 42 | 41.9 | 5.718 | 33.052 | 6.43 | 0.11 | 26.048 | 0.079 | 1472. | 0.6 | | | | | | | | | | | |
| 44 | 44.0 | 5.712 | 33.052 | 6.43 | 0.11 | 26.048 | 0.083 | 1472. | 1.0 | | | | | | | | | | | |
| 46 | 46.1 | 5.733 | 33.055 | 6.43 | 0.11 | 26.049 | 0.087 | 1472. | 1.1 | | | | | | | | | | | |
| 47 | 47.9 | 5.732 | 33.056 | 6.43 | 0.11 | 26.049 | 0.090 | 1472. | 1.2 | | | | | | | | | | | |
| 50 | 50.0 | 5.741 | 33.060 | 6.44 | 0.11 | 26.051 | 0.094 | 1472. | 1.3 | | | | | | | | | | | |
| 52 | 51.9 | 5.772 | 33.069 | 6.43 | 0.11 | 26.055 | 0.098 | 1472. | 1.3 | | | | | | | | | | | |
| 54 | 54.0 | 5.739 | 33.062 | 6.44 | 0.11 | 26.053 | 0.102 | 1472. | 1.3 | | | | | | | | | | | |
| 56 | 56.0 | 5.718 | 33.061 | 6.45 | 0.11 | 26.055 | 0.106 | 1472. | 1.2 | | | | | | | | | | | |
| 57 | 57.8 | 5.705 | 33.060 | 6.46 | 0.11 | 26.056 | 0.110 | 1472. | 1.0 | | | | | | | | | | | |
| 59 | 60.0 | 5.703 | 33.060 | 6.46 | 0.11 | 26.057 | 0.114 | 1472. | 0.9 | | | | | | | | | | | |
| 62 | 62.1 | 5.704 | 33.061 | 6.46 | 0.11 | 26.057 | 0.118 | 1472. | 1.0 | | | | | | | | | | | |
| 63 | 63.8 | 5.695 | 33.058 | 6.47 | 0.11 | 26.056 | 0.121 | 1472. | 0.9 | | | | | | | | | | | |
| 66 | 66.1 | 5.693 | 33.060 | 6.47 | 0.11 | 26.058 | 0.126 | 1472. | 1.0 | | | | | | | | | | | |
| 68 | 68.1 | 5.698 | 33.061 | 6.47 | 0.11 | 26.058 | 0.130 | 1472. | 1.0 | | | | | | | | | | | |
| 69 | 69.9 | 5.704 | 33.063 | 6.47 | 0.11 | 26.059 | 0.133 | 1472. | 1.2 | | | | | | | | | | | |
| 72 | 72.1 | 5.706 | 33.064 | 6.46 | 0.11 | 26.059 | 0.138 | 1472. | 1.5 | | | | | | | | | | | |
| 73 | 74.1 | 5.721 | 33.070 | 6.46 | 0.11 | 26.062 | 0.141 | 1472. | 1.8 | | | | | | | | | | | |
| 75 | 75.7 | 5.739 | 33.072 | 6.46 | 0.11 | 26.061 | 0.145 | 1472. | 2.0 | | | | | | | | | | | |
| 77 | 78.0 | 5.767 | 33.080 | 6.45 | 0.11 | 26.064 | 0.149 | 1473. | 2.1 | | | | | | | | | | | |
| 80 | 80.2 | 5.822 | 33.096 | 6.44 | 0.11 | 26.071 | 0.153 | 1473. | 2.1 | | | | | | | | | | | |
| 81 | 81.9 | 5.864 | 33.109 | 6.42 | 0.11 | 26.076 | 0.157 | 1473. | 2.0 | | | | | | | | | | | |
| 83 | 83.7 | 5.882 | 33.114 | 6.41 | 0.11 | 26.077 | 0.160 | 1473. | 1.9 | | | | | | | | | | | |
| 85 | 86.0 | 5.901 | 33.117 | 6.41 | 0.11 | 26.078 | 0.165 | 1473. | 1.6 | | | | | | | | | | | |
| 88 | 88.3 | 5.916 | 33.122 | 6.42 | 0.11 | 26.079 | 0.169 | 1473. | 1.2 | | | | | | | | | | | |
| 89 | 90.0 | 5.920 | 33.123 | 6.42 | 0.11 | 26.079 | 0.172 | 1474. | 1.0 | | | | | | | | | | | |
| 91 | 91.9 | 5.923 | 33.123 | 6.41 | 0.11 | 26.079 | 0.176 | 1474. | 1.1 | | | | | | | | | | | |
| 93 | 94.1 | 5.923 | 33.123 | 6.41 | 0.11 | 26.079 | 0.180 | 1474. | 1.2 | | | | | | | | | | | |
| 95 | 96.2 | 5.924 | 33.126 | 6.41 | 0.11 | 26.081 | 0.184 | 1474. | 1.3 | | | | | | | | | | | |
| 97 | 97.9 | 5.925 | 33.127 | 6.40 | 0.11 | 26.082 | 0.188 | 1474. | 1.6 | | | | | | | | | | | |
| 99 | 99.9 | 5.927 | 33.129 | 6.39 | 0.11 | 26.084 | 0.191 | 1474. | 1.7 | | | | | | | | | | | |

| SHIP OC | CRUISE 181 | STATION 24 | DATE 06 FEB 1987 | EST 1827 | LATITUDE 42°47.0'N | LONGITUDE 69°05.2'W | DEPTH 178 | | | | | | | | | | | | | |
|------------|---------------|---------------|---------------------|-------------|------------------------|----------------------------|--|--------------|----------|--|--|--|--|--|--|--|--|--|--|--|
| DEPTH m | PRESS dbar | TEMP °C | SALIN psu | OXY ml/l | ATN m ⁻¹ | SIGT gm/cm ³ | DYHT A 10m ² /s ² | S SPD m/s | N cph | | | | | | | | | | | |
| 101 | 102.2 | 5.931 | 33.132 | 6.40 | 0.11 | 26.085 | 0.196 | 1474. | 1.9 | | | | | | | | | | | |
| 103 | 104.1 | 5.941 | 33.138 | 6.40 | 0.11 | 26.089 | 0.200 | 1474. | 1.9 | | | | | | | | | | | |
| 105 | 106.0 | 5.960 | 33.144 | 6.40 | 0.11 | 26.091 | 0.203 | 1474. | 1.9 | | | | | | | | | | | |
| 107 | 107.9 | 5.976 | 33.149 | 6.39 | 0.11 | 26.093 | 0.207 | 1474. | 1.9 | | | | | | | | | | | |
| 109 | 110.0 | 6.001 | 33.157 | 6.38 | 0.11 | 26.097 | 0.211 | 1474. | 1.8 | | | | | | | | | | | |
| 111 | 112.0 | 6.025 | 33.163 | 6.36 | 0.11 | 26.098 | 0.215 | 1474. | 1.5 | | | | | | | | | | | |
| 113 | 113.9 | 6.035 | 33.165 | 6.36 | 0.11 | 26.098 | 0.218 | 1474. | 1.4 | | | | | | | | | | | |
| 115 | 116.1 | 6.054 | 33.171 | 6.35 | 0.11 | 26.101 | 0.222 | 1475. | 1.4 | | | | | | | | | | | |
| 117 | 118.0 | 6.066 | 33.173 | 6.35 | 0.11 | 26.101 | 0.226 | 1475. | 1.4 | | | | | | | | | | | |
| 119 | 119.9 | 6.074 | 33.173 | 6.35 | 0.12 | 26.100 | 0.230 | 1475. | 1.5 | | | | | | | | | | | |
| 121 | 121.9 | 6.104 | 33.182 | 6.33 | 0.13 | 26.103 | 0.234 | 1475. | 1.5 | | | | | | | | | | | |
| 123 | 124.0 | 6.185 | 33.196 | 6.30 | 0.16 | 26.105 | 0.238 | 1475. | 1.5 | | | | | | | | | | | |
| 125 | 126.1 | 6.241 | 33.212 | 6.26 | 0.17 | 26.110 | 0.242 | 1475. | 1.5 | | | | | | | | | | | |
| 127 | 127.8 | 6.272 | 33.216 | 6.24 | 0.18 | 26.109 | 0.245 | 1476. | 1.4 | | | | | | | | | | | |
| 129 | 129.9 | 6.281 | 33.219 | 6.25 | 0.18 | 26.110 | 0.249 | 1476. | 1.3 | | | | | | | | | | | |
| 131 | 132.1 | 6.304 | 33.223 | 6.25 | 0.19 | 26.110 | 0.253 | 1476. | 1.2 | | | | | | | | | | | |
| 133 | 134.1 | 6.314 | 33.225 | 6.24 | 0.21 | 26.111 | 0.257 | 1476. | 1.0 | | | | | | | | | | | |
| 135 | 135.9 | 6.328 | 33.229 | 6.21 | 0.19 | 26.112 | 0.260 | 1476. | 1.1 | | | | | | | | | | | |
| 137 | 137.9 | 6.340 | 33.232 | 6.20 | 0.21 | 26.113 | 0.264 | 1476. | 1.1 | | | | | | | | | | | |
| 139 | 140.0 | 6.352 | 33.235 | 6.20 | 0.22 | 26.114 | 0.268 | 1476. | 1.1 | | | | | | | | | | | |
| 141 | 142.0 | 6.358 | 33.236 | 6.20 | 0.22 | 26.114 | 0.272 | 1476. | 1.1 | | | | | | | | | | | |
| 143 | 143.9 | 6.378 | 33.242 | 6.20 | 0.22 | 26.116 | 0.276 | 1476. | 1.0 | | | | | | | | | | | |
| 145 | 146.0 | 6.387 | 33.243 | 6.19 | 0.23 | 26.116 | 0.280 | 1476. | 1.0 | | | | | | | | | | | |
| 147 | 147.8 | 6.401 | 33.247 | 6.19 | 0.24 | 26.117 | 0.283 | 1477. | 0.9 | | | | | | | | | | | |
| 149 | 150.2 | 6.447 | 33.256 | 6.18 | 0.26 | 26.118 | 0.287 | 1477. | 0.8 | | | | | | | | | | | |
| 151 | 152.2 | 6.451 | 33.256 | 6.17 | 0.27 | 26.118 | 0.291 | 1477. | 0.7 | | | | | | | | | | | |
| 152 | 153.7 | 6.449 | 33.256 | 6.18 | 0.27 | 26.118 | 0.294 | 1477. | 0.6 | | | | | | | | | | | |
| 155 | 155.9 | 6.452 | 33.257 | 6.19 | 0.28 | 26.118 | 0.298 | 1477. | 0.5 | | | | | | | | | | | |
| 157 | 158.0 | 6.452 | 33.257 | 6.18 | 0.27 | 26.118 | 0.302 | 1477. | 0.4 | | | | | | | | | | | |
| 159 | 160.1 | 6.450 | 33.257 | 6.16 | 0.28 | 26.119 | 0.306 | 1477. | 0.5 | | | | | | | | | | | |
| 161 | 162.1 | 6.449 | 33.257 | 6.17 | 0.28 | 26.118 | 0.310 | 1477. | 0.5 | | | | | | | | | | | |
| 162 | 163.2 | 6.449 | 33.257 | 6.17 | 0.28 | 26.119 | 0.312 | 1477. | 0.5 | | | | | | | | | | | |
| 163 | 164.0 | 6.449 | 33.257 | 6.16 | 0.28 | 26.119 | 0.314 | 1477. | 0.5 | | | | | | | | | | | |
| 164 | 165.1 | 6.449 | 33.257 | 6.16 | 0.29 | 26.119 | 0.316 | 1477. | 0.5 | | | | | | | | | | | |
| 165 | 166.0 | 6.449 | 33.257 | 6.16 | 0.29 | 26.119 | 0.318 | 1477. | 0.5 | | | | | | | | | | | |
| 166 | 167.0 | 6.449 | 33.257 | 6.17 | 0.29 | 26.119 | 0.320 | 1477. | 0.5 | | | | | | | | | | | |
| 167 | 168.0 | 6.449 | 33.257 | 6.18 | 0.29 | 26.119 | 0.321 | 1477. | 0.4 | | | | | | | | | | | |
| 168 | 168.9 | 6.449 | 33.257 | 6.19 | 0.30 | 26.119 | 0.323 | 1477. | 0.2 | | | | | | | | | | | |
| 169 | 170.1 | 6.449 | 33.257 | 6.20 | 0.31 | 26.119 | 0.325 | 1477. | 0.2 | | | | | | | | | | | |
| 170 | 171.0 | 6.450 | 33.257 | 6.19 | 0.30 | 26.119 | 0.327 | 1477. | 0.2 | | | | | | | | | | | |
| 171 | 171.9 | 6.449 | 33.257 | 6.18 | 0.29 | 26.119 | 0.329 | 1477. | 0.2 | | | | | | | | | | | |
| 171 | 172.9 | 6.449 | 33.257 | 6.15 | 0.30 | 26.119 | 0.331 | 1477. | 0.2 | | | | | | | | | | | |

| SHLP OC | CRUISE 181 | STATION 25 | DATE 06 FEB 1987 | EST 1946 | LATITUDE 42°42.0'N | LONGITUDE 69°13.6'W | DEPTH 166 | | | | | | | | | |
|------------|---------------|---------------|---------------------|-------------|------------------------|----------------------------|--|--------------|----------|--|--|--|--|--|--|--|
| DEPTH m | PRESS dbar | TEMP °C | SALIN psu | OXY ml/l | ATN m ⁻¹ | SIGT gm/cm ³ | DYHT A 10m ² /s ² | S SPD m/s | N cph | | | | | | | |
| 2 | 2.2 | 5.727 | 33.106 | 6.87 | 0.15 | 26.090 | 0.000 | 1471. | -0.3 | | | | | | | |
| 4 | 4.2 | 5.745 | 33.108 | 6.86 | 0.15 | 26.089 | 0.004 | 1471. | -0.3 | | | | | | | |
| 6 | 5.9 | 5.764 | 33.109 | 6.86 | 0.15 | 26.087 | 0.007 | 1472. | -0.3 | | | | | | | |
| 8 | 8.1 | 5.762 | 33.108 | 6.87 | 0.15 | 26.087 | 0.011 | 1472. | -0.3 | | | | | | | |
| 10 | 10.1 | 5.761 | 33.108 | 6.87 | 0.15 | 26.087 | 0.015 | 1472. | -0.3 | | | | | | | |
| 12 | 11.9 | 5.762 | 33.109 | 6.85 | 0.15 | 26.087 | 0.018 | 1472. | 0.3 | | | | | | | |
| 14 | 14.0 | 5.756 | 33.108 | 6.83 | 0.15 | 26.087 | 0.022 | 1472. | 0.5 | | | | | | | |
| 16 | 16.1 | 5.745 | 33.107 | 6.82 | 0.15 | 26.089 | 0.026 | 1472. | 0.4 | | | | | | | |
| 18 | 18.0 | 5.748 | 33.108 | 6.85 | 0.15 | 26.089 | 0.030 | 1472. | 0.3 | | | | | | | |
| 20 | 20.0 | 5.750 | 33.107 | 6.84 | 0.15 | 26.088 | 0.034 | 1472. | 0.2 | | | | | | | |
| 22 | 22.1 | 5.755 | 33.108 | 6.85 | 0.15 | 26.088 | 0.038 | 1472. | -0.1 | | | | | | | |
| 24 | 24.0 | 5.754 | 33.108 | 6.88 | 0.15 | 26.088 | 0.042 | 1472. | -0.4 | | | | | | | |
| 26 | 25.9 | 5.754 | 33.108 | 6.87 | 0.15 | 26.088 | 0.045 | 1472. | -0.4 | | | | | | | |
| 28 | 28.1 | 5.750 | 33.108 | 6.86 | 0.15 | 26.088 | 0.049 | 1472. | -0.3 | | | | | | | |
| 30 | 30.1 | 5.757 | 33.108 | 6.87 | 0.15 | 26.088 | 0.053 | 1472. | -0.4 | | | | | | | |
| 32 | 32.1 | 5.762 | 33.108 | 6.87 | 0.15 | 26.087 | 0.057 | 1472. | -0.4 | | | | | | | |
| 34 | 34.1 | 5.765 | 33.109 | 6.88 | 0.15 | 26.087 | 0.061 | 1472. | -0.4 | | | | | | | |
| 36 | 35.9 | 5.766 | 33.109 | 6.88 | 0.15 | 26.087 | 0.065 | 1472. | -0.4 | | | | | | | |
| 37 | 37.8 | 5.767 | 33.109 | 6.86 | 0.15 | 26.087 | 0.068 | 1472. | -0.3 | | | | | | | |
| 40 | 39.9 | 5.771 | 33.110 | 6.84 | 0.14 | 26.087 | 0.072 | 1472. | -0.2 | | | | | | | |
| 42 | 42.0 | 5.772 | 33.110 | 6.82 | 0.14 | 26.087 | 0.076 | 1472. | -0.1 | | | | | | | |
| 44 | 44.0 | 5.772 | 33.110 | 6.81 | 0.14 | 26.087 | 0.080 | 1472. | -0.2 | | | | | | | |
| 46 | 46.0 | 5.773 | 33.110 | 6.81 | 0.14 | 26.087 | 0.084 | 1472. | -0.1 | | | | | | | |
| 48 | 48.0 | 5.774 | 33.110 | 6.84 | 0.14 | 26.087 | 0.088 | 1472. | -0.1 | | | | | | | |
| 49 | 49.8 | 5.775 | 33.110 | 6.86 | 0.14 | 26.087 | 0.091 | 1472. | 0.0 | | | | | | | |
| 52 | 52.0 | 5.774 | 33.110 | 6.88 | 0.14 | 26.087 | 0.095 | 1472. | -0.1 | | | | | | | |
| 54 | 54.0 | 5.775 | 33.110 | 6.88 | 0.14 | 26.087 | 0.099 | 1472. | -0.1 | | | | | | | |
| 56 | 56.2 | 5.774 | 33.110 | 6.88 | 0.14 | 26.087 | 0.103 | 1472. | -0.2 | | | | | | | |
| 58 | 58.1 | 5.771 | 33.109 | 6.90 | 0.14 | 26.087 | 0.107 | 1472. | -0.2 | | | | | | | |
| 59 | 59.8 | 5.771 | 33.109 | 6.90 | 0.14 | 26.087 | 0.110 | 1472. | -0.2 | | | | | | | |
| 62 | 62.1 | 5.772 | 33.109 | 6.90 | 0.14 | 26.087 | 0.115 | 1472. | -0.2 | | | | | | | |
| 64 | 64.0 | 5.772 | 33.109 | 6.90 | 0.14 | 26.086 | 0.119 | 1472. | -0.2 | | | | | | | |
| 65 | 65.8 | 5.770 | 33.109 | 6.89 | 0.14 | 26.087 | 0.122 | 1473. | -0.1 | | | | | | | |
| 67 | 67.9 | 5.769 | 33.108 | 6.88 | 0.15 | 26.086 | 0.126 | 1473. | 0.1 | | | | | | | |
| 70 | 70.1 | 5.768 | 33.108 | 6.86 | 0.14 | 26.087 | 0.130 | 1473. | -0.2 | | | | | | | |
| 71 | 72.0 | 5.768 | 33.108 | 6.82 | 0.15 | 26.086 | 0.134 | 1473. | -0.2 | | | | | | | |
| 73 | 73.9 | 5.768 | 33.108 | 6.81 | 0.15 | 26.087 | 0.138 | 1473. | 0.1 | | | | | | | |
| 75 | 76.1 | 5.770 | 33.109 | 6.85 | 0.14 | 26.087 | 0.142 | 1473. | 0.2 | | | | | | | |
| 77 | 78.0 | 5.773 | 33.109 | 6.84 | 0.14 | 26.086 | 0.145 | 1473. | 0.2 | | | | | | | |
| 79 | 79.9 | 5.774 | 33.109 | 6.85 | 0.14 | 26.086 | 0.149 | 1473. | 0.3 | | | | | | | |
| 81 | 82.1 | 5.777 | 33.110 | 6.89 | 0.14 | 26.087 | 0.153 | 1473. | 0.5 | | | | | | | |
| 83 | 84.0 | 5.779 | 33.110 | 6.89 | 0.14 | 26.087 | 0.157 | 1473. | 0.6 | | | | | | | |
| 85 | 85.9 | 5.781 | 33.110 | 6.88 | 0.14 | 26.087 | 0.161 | 1473. | 0.8 | | | | | | | |
| 87 | 88.0 | 5.788 | 33.112 | 6.88 | 0.14 | 26.087 | 0.165 | 1473. | 1.0 | | | | | | | |
| 89 | 90.1 | 5.802 | 33.115 | 6.87 | 0.14 | 26.088 | 0.169 | 1473. | 1.2 | | | | | | | |
| 91 | 92.2 | 5.825 | 33.119 | 6.85 | 0.14 | 26.088 | 0.173 | 1473. | 1.5 | | | | | | | |
| 93 | 93.9 | 5.844 | 33.124 | 6.83 | 0.13 | 26.090 | 0.176 | 1473. | 1.7 | | | | | | | |
| 95 | 96.2 | 5.896 | 33.136 | 6.79 | 0.13 | 26.093 | 0.180 | 1474. | 1.9 | | | | | | | |
| 97 | 98.1 | 5.914 | 33.140 | 6.79 | 0.13 | 26.094 | 0.184 | 1474. | 2.0 | | | | | | | |
| 99 | 100.1 | 5.978 | 33.156 | 6.75 | 0.13 | 26.099 | 0.188 | 1474. | 2.0 | | | | | | | |

| SHIP OC | CRUISE 181 | STATION 25 | DATE 06 FEB 1987 | EST 1946 | LATITUDE 42°42.0'N | LONGITUDE 69°13.6'W | DEPTH 166 | | | | | | | | | |
|------------|---------------|---------------|---------------------|-------------|------------------------|----------------------------|--|--------------|----------|--|--|--|--|--|--|--|
| DEPTH m | PRESS dbar | TEMP °C | SALIN psu | OXY ml/l | ATN m ⁻¹ | SIGT gm/cm ³ | DYHT A 10m ² /s ² | S SPD m/s | N cph | | | | | | | |
| 101 | 102.0 | 6.050 | 33.171 | 6.71 | 0.14 | 26.102 | 0.191 | 1474. | 2.1 | | | | | | | |
| 103 | 103.9 | 6.062 | 33.175 | 6.70 | 0.15 | 26.104 | 0.195 | 1474. | 2.0 | | | | | | | |
| 105 | 106.0 | 6.111 | 33.190 | 6.70 | 0.15 | 26.109 | 0.199 | 1475. | 2.1 | | | | | | | |
| 107 | 108.0 | 6.148 | 33.193 | 6.68 | 0.16 | 26.107 | 0.203 | 1475. | 2.1 | | | | | | | |
| 109 | 109.9 | 6.187 | 33.207 | 6.67 | 0.16 | 26.112 | 0.207 | 1475. | 2.2 | | | | | | | |
| 111 | 111.9 | 6.219 | 33.212 | 6.64 | 0.17 | 26.113 | 0.210 | 1475. | 2.2 | | | | | | | |
| 113 | 113.9 | 6.266 | 33.229 | 6.62 | 0.18 | 26.120 | 0.214 | 1475. | 2.2 | | | | | | | |
| 115 | 116.1 | 6.272 | 33.233 | 6.63 | 0.18 | 26.123 | 0.218 | 1475. | 2.2 | | | | | | | |
| 117 | 118.1 | 6.279 | 33.239 | 6.62 | 0.19 | 26.126 | 0.222 | 1476. | 2.0 | | | | | | | |
| 119 | 120.1 | 6.288 | 33.242 | 6.60 | 0.20 | 26.128 | 0.226 | 1476. | 1.8 | | | | | | | |
| 121 | 121.9 | 6.294 | 33.245 | 6.60 | 0.21 | 26.130 | 0.229 | 1476. | 1.4 | | | | | | | |
| 123 | 123.9 | 6.303 | 33.248 | 6.58 | 0.21 | 26.131 | 0.233 | 1476. | 1.2 | | | | | | | |
| 125 | 126.0 | 6.305 | 33.249 | 6.58 | 0.21 | 26.131 | 0.237 | 1476. | 0.9 | | | | | | | |
| 127 | 127.9 | 6.310 | 33.250 | 6.57 | 0.22 | 26.131 | 0.241 | 1476. | 0.8 | | | | | | | |
| 129 | 130.0 | 6.312 | 33.250 | 6.59 | 0.22 | 26.131 | 0.245 | 1476. | 0.8 | | | | | | | |
| 131 | 132.0 | 6.317 | 33.251 | 6.58 | 0.22 | 26.131 | 0.248 | 1476. | 1.2 | | | | | | | |
| 133 | 134.1 | 6.318 | 33.251 | 6.61 | 0.22 | 26.131 | 0.252 | 1476. | 1.5 | | | | | | | |
| 135 | 135.8 | 6.320 | 33.252 | 6.50 | 0.23 | 26.132 | 0.256 | 1476. | 1.8 | | | | | | | |
| 137 | 137.8 | 6.332 | 33.257 | 6.57 | 0.26 | 26.134 | 0.259 | 1476. | 2.3 | | | | | | | |
| 139 | 139.9 | 6.354 | 33.269 | 6.58 | 0.27 | 26.141 | 0.263 | 1476. | 2.6 | | | | | | | |
| 141 | 141.9 | 6.358 | 33.271 | 6.60 | 0.27 | 26.142 | 0.267 | 1476. | 2.8 | | | | | | | |
| 143 | 144.0 | 6.359 | 33.280 | 6.63 | 0.28 | 26.148 | 0.271 | 1476. | 2.9 | | | | | | | |
| 145 | 146.0 | 6.362 | 33.296 | 6.64 | 0.29 | 26.161 | 0.275 | 1476. | 2.9 | | | | | | | |
| 147 | 148.2 | 6.363 | 33.300 | 6.67 | 0.29 | 26.164 | 0.279 | 1476. | 2.8 | | | | | | | |
| 149 | 150.1 | 6.366 | 33.305 | 6.68 | 0.29 | 26.167 | 0.282 | 1477. | 2.6 | | | | | | | |
| 150 | 151.2 | 6.367 | 33.306 | 6.69 | 0.29 | 26.168 | 0.284 | 1477. | 2.4 | | | | | | | |
| 151 | 152.0 | 6.369 | 33.307 | 6.53 | 0.29 | 26.169 | 0.286 | 1477. | 2.1 | | | | | | | |
| 152 | 152.9 | 6.369 | 33.307 | 6.63 | 0.29 | 26.169 | 0.288 | 1477. | 2.4 | | | | | | | |
| 153 | 154.0 | 6.368 | 33.306 | 6.29 | 0.29 | 26.168 | 0.290 | 1477. | 2.6 | | | | | | | |
| 154 | 155.0 | 6.373 | 33.314 | 6.29 | 0.30 | 26.173 | 0.291 | 1477. | 2.8 | | | | | | | |
| 155 | 156.0 | 6.376 | 33.320 | 6.28 | 0.30 | 26.178 | 0.293 | 1477. | 2.9 | | | | | | | |
| 156 | 157.0 | 6.379 | 33.324 | 6.26 | 0.31 | 26.181 | 0.295 | 1477. | 2.9 | | | | | | | |
| 157 | 158.0 | 6.381 | 33.328 | 6.24 | 0.31 | 26.184 | 0.297 | 1477. | 2.9 | | | | | | | |
| 158 | 159.0 | 6.382 | 33.330 | 6.19 | 0.30 | 26.185 | 0.299 | 1477. | 2.9 | | | | | | | |
| 158 | 159.6 | 6.382 | 33.330 | 6.11 | 0.30 | 26.185 | 0.300 | 1477. | 2.9 | | | | | | | |

| SHIP OC | CRUISE 181 | STATION 26 | DATE 06 FEB 1987 | | EST 2102 | LATITUDE 42°36.5'N | LONGITUDE 69°22.0'W | DEPTH 235 | | |
|------------|---------------|---------------|---------------------|-------------|------------------------|----------------------------|--|--------------|----------|--|
| DEPTH m | PRESS dbar | TEMP °C | SALIN psu | OXY ml/l | AIN m ⁻¹ | SIGT gm/cm ³ | DYHT A 10m ² /s ² | S SPD m/s | N cph | |
| 2 | 2.0 | 5.443 | 32.997 | 7.06 | 0.12 | 26.037 | 0.000 | 1470. | 0.2 | |
| 4 | 4.1 | 5.442 | 32.997 | 7.04 | 0.12 | 26.037 | 0.004 | 1470. | 0.2 | |
| 6 | 6.0 | 5.440 | 32.997 | 7.04 | 0.12 | 26.038 | 0.008 | 1470. | 0.2 | |
| 8 | 8.1 | 5.446 | 32.997 | 7.02 | 0.12 | 26.037 | 0.012 | 1470. | 0.2 | |
| 10 | 9.9 | 5.448 | 32.997 | 7.02 | 0.12 | 26.037 | 0.015 | 1470. | 0.2 | |
| 12 | 12.0 | 5.448 | 32.998 | 7.02 | 0.12 | 26.037 | 0.019 | 1470. | -0.2 | |
| 14 | 14.0 | 5.443 | 32.998 | 7.02 | 0.12 | 26.038 | 0.023 | 1470. | -0.2 | |
| 16 | 16.0 | 5.444 | 32.998 | 7.01 | 0.12 | 26.037 | 0.027 | 1470. | 0.1 | |
| 18 | 18.0 | 5.452 | 32.998 | 7.01 | 0.12 | 26.037 | 0.031 | 1470. | -0.2 | |
| 20 | 19.9 | 5.456 | 32.998 | 7.01 | 0.12 | 26.036 | 0.035 | 1470. | -0.3 | |
| 22 | 21.9 | 5.456 | 32.999 | 7.01 | 0.12 | 26.037 | 0.039 | 1470. | -0.5 | |
| 24 | 23.9 | 5.456 | 32.998 | 7.00 | 0.12 | 26.037 | 0.043 | 1470. | -0.4 | |
| 26 | 26.1 | 5.455 | 32.998 | 7.01 | 0.12 | 26.037 | 0.047 | 1470. | -0.3 | |
| 28 | 28.0 | 5.454 | 32.998 | 7.01 | 0.12 | 26.037 | 0.051 | 1470. | -0.2 | |
| 30 | 29.9 | 5.455 | 32.998 | 7.00 | 0.12 | 26.036 | 0.055 | 1471. | -0.3 | |
| 32 | 32.0 | 5.455 | 32.998 | 6.98 | 0.12 | 26.037 | 0.059 | 1471. | -0.1 | |
| 34 | 34.0 | 5.455 | 32.998 | 6.98 | 0.12 | 26.036 | 0.063 | 1471. | 0.2 | |
| 36 | 36.0 | 5.455 | 32.998 | 7.00 | 0.12 | 26.036 | 0.067 | 1471. | 0.5 | |
| 38 | 38.0 | 5.456 | 32.998 | 7.01 | 0.12 | 26.036 | 0.071 | 1471. | 0.5 | |
| 40 | 40.0 | 5.455 | 32.998 | 7.02 | 0.13 | 26.037 | 0.075 | 1471. | 0.6 | |
| 42 | 42.0 | 5.459 | 32.999 | 7.02 | 0.12 | 26.037 | 0.078 | 1471. | 0.7 | |
| 44 | 44.0 | 5.469 | 33.002 | 7.02 | 0.12 | 26.038 | 0.082 | 1471. | 0.9 | |
| 46 | 46.1 | 5.475 | 33.002 | 7.01 | 0.12 | 26.038 | 0.087 | 1471. | 1.3 | |
| 48 | 48.1 | 5.479 | 33.004 | 6.99 | 0.12 | 26.038 | 0.090 | 1471. | 1.4 | |
| 50 | 50.1 | 5.484 | 33.004 | 6.96 | 0.12 | 26.038 | 0.094 | 1471. | 1.6 | |
| 51 | 51.8 | 5.507 | 33.012 | 6.98 | 0.12 | 26.042 | 0.098 | 1471. | 2.1 | |
| 54 | 54.0 | 5.578 | 33.030 | 6.94 | 0.12 | 26.047 | 0.102 | 1471. | 2.5 | |
| 55 | 55.9 | 5.566 | 33.025 | 6.94 | 0.12 | 26.045 | 0.106 | 1471. | 2.8 | |
| 58 | 58.1 | 5.585 | 33.036 | 6.93 | 0.11 | 26.051 | 0.110 | 1472. | 2.9 | |
| 60 | 60.0 | 5.671 | 33.065 | 6.90 | 0.11 | 26.064 | 0.114 | 1472. | 3.2 | |
| 61 | 62.0 | 5.698 | 33.076 | 6.89 | 0.11 | 26.069 | 0.118 | 1472. | 3.5 | |
| 63 | 64.0 | 5.731 | 33.088 | 6.88 | 0.11 | 26.075 | 0.122 | 1472. | 3.7 | |
| 65 | 66.0 | 5.813 | 33.106 | 6.84 | 0.11 | 26.080 | 0.125 | 1473. | 3.7 | |
| 67 | 68.0 | 5.824 | 33.128 | 6.83 | 0.10 | 26.096 | 0.129 | 1473. | 3.6 | |
| 69 | 70.0 | 5.920 | 33.157 | 6.79 | 0.10 | 26.106 | 0.133 | 1473. | 3.5 | |
| 71 | 72.0 | 5.967 | 33.180 | 6.77 | 0.10 | 26.119 | 0.137 | 1473. | 3.3 | |
| 73 | 74.0 | 5.982 | 33.184 | 6.77 | 0.10 | 26.120 | 0.141 | 1474. | 2.9 | |
| 75 | 76.0 | 6.003 | 33.190 | 6.77 | 0.10 | 26.122 | 0.144 | 1474. | 2.5 | |
| 77 | 78.0 | 6.013 | 33.195 | 6.76 | 0.10 | 26.125 | 0.148 | 1474. | 2.2 | |
| 79 | 79.9 | 6.020 | 33.198 | 6.75 | 0.10 | 26.127 | 0.152 | 1474. | 2.0 | |
| 81 | 81.9 | 6.019 | 33.199 | 6.75 | 0.11 | 26.127 | 0.156 | 1474. | 2.0 | |
| 83 | 84.1 | 6.054 | 33.214 | 6.74 | 0.11 | 26.135 | 0.160 | 1474. | 2.9 | |
| 85 | 86.0 | 6.097 | 33.223 | 6.72 | 0.10 | 26.137 | 0.163 | 1474. | 1.7 | |
| 87 | 88.0 | 6.110 | 33.227 | 6.72 | 0.11 | 26.138 | 0.167 | 1474. | 1.6 | |
| 89 | 89.9 | 6.112 | 33.228 | 6.72 | 0.10 | 26.139 | 0.171 | 1474. | 1.3 | |
| 91 | 92.0 | 6.115 | 33.228 | 6.73 | 0.10 | 26.138 | 0.175 | 1474. | 0.9 | |
| 93 | 94.0 | 6.117 | 33.229 | 6.73 | 0.10 | 26.139 | 0.178 | 1475. | 0.9 | |
| 95 | 96.0 | 6.120 | 33.230 | 6.72 | 0.10 | 26.139 | 0.182 | 1475. | 0.9 | |
| 97 | 98.1 | 6.123 | 33.232 | 6.70 | 0.10 | 26.140 | 0.186 | 1475. | 0.9 | |
| 99 | 100.1 | 6.138 | 33.234 | 6.69 | 0.10 | 26.140 | 0.190 | 1475. | 1.0 | |

| SHIP OC | CRUISE 181 | STATION 26 | DATE 06 FEB 1987 | | EST 2102 | LATITUDE 42°36.5'N | LONGITUDE 69°22.0'W | DEPTH 235 | | |
|------------|---------------|---------------|---------------------|-------------|------------------------|----------------------------|--|--------------|----------|--|
| DEPTH m | PRESS dbar | TEMP °C | SALIN psu | OXY ml/l | AIN m ⁻¹ | SIGT gm/cm ³ | DYHT A 10m ² /s ² | S SPD m/s | N cph | |
| 101 | 101.9 | 6.145 | 33.237 | 6.73 | 0.10 | 26.141 | 0.193 | 1475. | 0.9 | |
| 103 | 104.1 | 6.140 | 33.237 | 6.78 | 0.10 | 26.142 | 0.197 | 1475. | 0.9 | |
| 105 | 106.1 | 6.138 | 33.237 | 6.79 | 0.10 | 26.142 | 0.201 | 1475. | 0.9 | |
| 107 | 107.9 | 6.136 | 33.237 | 6.80 | 0.10 | 26.143 | 0.204 | 1475. | 0.8 | |
| 109 | 110.0 | 6.133 | 33.236 | 6.81 | 0.10 | 26.143 | 0.208 | 1475. | 0.8 | |
| 111 | 112.1 | 6.132 | 33.237 | 6.82 | 0.10 | 26.144 | 0.212 | 1475. | 0.8 | |
| 113 | 114.0 | 6.136 | 33.238 | 6.82 | 0.10 | 26.144 | 0.216 | 1475. | 0.8 | |
| 115 | 116.1 | 6.137 | 33.239 | 6.82 | 0.10 | 26.144 | 0.220 | 1475. | 0.8 | |
| 117 | 118.1 | 6.142 | 33.240 | 6.83 | 0.10 | 26.145 | 0.223 | 1475. | 0.8 | |
| 119 | 119.9 | 6.147 | 33.242 | 6.83 | 0.10 | 26.145 | 0.227 | 1475. | 0.8 | |
| 121 | 122.0 | 6.152 | 33.243 | 6.83 | 0.10 | 26.146 | 0.231 | 1475. | 1.4 | |
| 123 | 124.0 | 6.168 | 33.246 | 6.81 | 0.09 | 26.146 | 0.234 | 1475. | 1.4 | |
| 125 | 125.9 | 6.171 | 33.246 | 6.79 | 0.09 | 26.146 | 0.238 | 1475. | 1.8 | |
| 127 | 128.1 | 6.174 | 33.249 | 6.78 | 0.10 | 26.148 | 0.242 | 1475. | 2.2 | |
| 129 | 130.0 | 6.212 | 33.268 | 6.57 | 0.09 | 26.158 | 0.246 | 1476. | 2.5 | |
| 131 | 132.1 | 6.211 | 33.259 | 6.34 | 0.10 | 26.151 | 0.250 | 1476. | 2.7 | |
| 133 | 134.1 | 6.284 | 33.290 | 6.29 | 0.10 | 26.166 | 0.253 | 1476. | 2.9 | |
| 135 | 135.9 | 6.314 | 33.301 | 6.26 | 0.10 | 26.171 | 0.257 | 1476. | 3.1 | |
| 137 | 138.0 | 6.320 | 33.308 | 6.26 | 0.10 | 26.176 | 0.261 | 1476. | 3.1 | |
| 139 | 140.1 | 6.332 | 33.315 | 6.26 | 0.11 | 26.180 | 0.264 | 1476. | 3.1 | |
| 141 | 142.1 | 6.372 | 33.332 | 6.24 | 0.11 | 26.188 | 0.268 | 1476. | 3.1 | |
| 143 | 144.0 | 6.403 | 33.350 | 6.21 | 0.11 | 26.198 | 0.272 | 1477. | 3.3 | |
| 145 | 146.0 | 6.406 | 33.352 | 6.17 | 0.11 | 26.200 | 0.275 | 1477. | 3.8 | |
| 147 | 148.1 | 6.416 | 33.356 | 6.13 | 0.11 | 26.201 | 0.279 | 1477. | 4.2 | |
| 149 | 150.1 | 6.474 | 33.386 | 6.08 | 0.12 | 26.217 | 0.283 | 1477. | 4.3 | |
| 150 | 151.7 | 6.514 | 33.408 | 6.03 | 0.13 | 26.230 | 0.286 | 1477. | 4.2 | |
| 153 | 154.0 | 6.588 | 33.460 | 5.99 | 0.14 | 26.261 | 0.290 | 1478. | 4.2 | |
| 155 | 156.0 | 6.600 | 33.478 | 5.96 | 0.14 | 26.274 | 0.293 | 1478. | 4.1 | |
| 157 | 158.1 | 6.602 | 33.472 | 5.94 | 0.14 | 26.269 | 0.297 | 1478. | 3.8 | |
| 159 | 160.1 | 6.606 | 33.477 | 5.93 | 0.14 | 26.272 | 0.300 | 1478. | 3.5 | |
| 161 | 161.9 | 6.613 | 33.491 | 5.91 | 0.14 | 26.282 | 0.304 | 1478. | 3.3 | |
| 163 | 163.9 | 6.620 | 33.500 | 5.90 | 0.15 | 26.288 | 0.307 | 1478. | 3.5 | |
| 165 | 166.0 | 6.624 | 33.513 | 5.89 | 0.15 | 26.298 | 0.311 | 1478. | 3.7 | |
| 167 | 167.9 | 6.632 | 33.528 | 5.83 | 0.16 | 26.308 | 0.314 | 1478. | 3.8 | |
| 169 | 170.1 | 6.646 | 33.546 | 5.50 | 0.16 | 26.321 | 0.318 | 1478. | 4.0 | |
| 171 | 172.1 | 6.654 | 33.561 | 5.48 | 0.16 | 26.332 | 0.321 | 1478. | 4.3 | |
| 173 | 174.0 | 6.655 | 33.560 | 5.47 | 0.17 | 26.331 | 0.324 | 1478. | 4.5 | |
| 174 | 176.0 | 6.662 | 33.584 | 5.46 | 0.18 | 26.349 | 0.328 | 1478. | 4.6 | |
| 176 | 177.9 | 6.667 | 33.610 | 5.45 | 0.19 | 26.369 | 0.331 | 1479. | 4.5 | |
| 179 | 180.0 | 6.670 | 33.639 | 5.44 | 0.20 | 26.391 | 0.335 | 1479. | 4.5 | |
| 180 | 182.0 | 6.679 | 33.654 | 5.42 | 0.20 | 26.402 | 0.338 | 1479. | 4.4 | |
| 182 | 184.0 | 6.682 | 33.663 | 5.41 | 0.21 | 26.408 | 0.341 | 1479. | 3.9 | |
| 185 | 186.1 | 6.682 | 33.670 | 5.40 | 0.22 | 26.414 | 0.345 | 1479. | 3.7 | |
| 186 | 188.1 | 6.675 | 33.684 | 5.39 | 0.23 | 26.426 | 0.348 | 1479. | 3.5 | |
| 188 | 190.0 | 6.675 | 33.687 | 5.38 | 0.23 | 26.428 | 0.351 | 1479. | 3.5 | |
| 190 | 192.0 | 6.676 | 33.692 | 5.36 | 0.25 | 26.432 | 0.354 | 1479. | 3.6 | |
| 192 | 193.9 | 6.673 | 33.715 | 5.35 | 0.25 | 26.450 | 0.357 | 1479. | 3.7 | |
| 194 | 195.9 | 6.672 | 33.719 | 5.32 | 0.28 | 26.454 | 0.360 | 1479. | 3.7 | |
| 196 | 198.1 | 6.689 | 33.737 | 5.29 | 0.30 | 26.466 | 0.364 | 1479. | 3.6 | |
| 198 | 200.1 | 6.700 | 33.749 | 5.25 | 0.33 | 26.474 | 0.367 | 1479. | 3.3 | |

| SHIP OC | CRUISE 181 | STATION 26 | DATE 06 FEB 1987 | | EST 2102 | LATITUDE 42°36.5'N | LONGITUDE 69°22.0'W | DEPTH 235 | |
|------------|---------------|---------------|---------------------|-------------|------------------------|----------------------------|--|--------------|----------|
| DEPTH m | PRESS dbar | TEMP °C | SALIN psu | OXY ml/l | ATN m ⁻¹ | SIGT gm/cm ³ | DYHT A 10m ² /s ² | S SPD m/s | N cph |
| 200 | 201.7 | 6.712 | 33.761 | 5.21 | 0.39 | 26.482 | 0.370 | 1479. | 2.8 |
| 202 | 204.0 | 6.718 | 33.768 | 5.22 | 0.43 | 26.487 | 0.373 | 1479. | 2.5 |
| 204 | 205.9 | 6.718 | 33.768 | 5.22 | 0.45 | 26.486 | 0.376 | 1479. | 1.9 |
| 206 | 208.0 | 6.720 | 33.769 | 5.22 | 0.46 | 26.487 | 0.379 | 1479. | 1.5 |
| 208 | 209.9 | 6.721 | 33.770 | 5.22 | 0.47 | 26.488 | 0.382 | 1479. | 1.1 |
| 210 | 212.0 | 6.720 | 33.770 | 5.22 | 0.48 | 26.488 | 0.386 | 1480. | 0.9 |
| 212 | 214.0 | 6.719 | 33.771 | 5.23 | 0.48 | 26.489 | 0.389 | 1480. | 1.1 |
| 214 | 216.0 | 6.719 | 33.771 | 5.24 | 0.49 | 26.489 | 0.392 | 1480. | 1.4 |
| 215 | 217.2 | 6.719 | 33.771 | 5.24 | 0.52 | 26.489 | 0.394 | 1480. | 1.6 |
| 216 | 217.9 | 6.720 | 33.773 | 5.24 | 0.50 | 26.490 | 0.395 | 1480. | 1.9 |
| 217 | 219.0 | 6.725 | 33.778 | 5.24 | 0.51 | 26.493 | 0.397 | 1480. | 2.2 |
| 218 | 220.0 | 6.729 | 33.783 | 5.24 | 0.51 | 26.497 | 0.398 | 1480. | 2.3 |
| 219 | 221.0 | 6.731 | 33.785 | 5.23 | 0.51 | 26.498 | 0.400 | 1480. | 2.3 |
| 220 | 222.1 | 6.732 | 33.786 | 5.23 | 0.51 | 26.499 | 0.401 | 1480. | 2.1 |
| 221 | 223.0 | 6.733 | 33.787 | 5.22 | 0.52 | 26.500 | 0.403 | 1480. | 1.8 |
| 222 | 224.0 | 6.734 | 33.789 | 5.21 | 0.52 | 26.501 | 0.404 | 1480. | 1.8 |
| 223 | 225.0 | 6.735 | 33.790 | 5.20 | 0.52 | 26.502 | 0.406 | 1480. | 1.8 |
| 224 | 226.0 | 6.735 | 33.791 | 5.19 | 0.53 | 26.502 | 0.407 | 1480. | 1.8 |
| 225 | 227.0 | 6.735 | 33.791 | 5.18 | 0.50 | 26.502 | 0.409 | 1480. | 1.8 |

| SHIP OC | CRUISE 181 | STATION 27 | DATE 06 FEB 1987 | | EST 2228 | LATITUDE 42°30.8'N | LONGITUDE 69°29.9'W | DEPTH 275 | |
|------------|---------------|---------------|---------------------|-------------|------------------------|----------------------------|--|--------------|----------|
| DEPTH m | PRESS dbar | TEMP °C | SALIN psu | OXY ml/l | ATN m ⁻¹ | SIGT gm/cm ³ | DYHT A 10m ² /s ² | S SPD m/s | N cph |
| 2 | 1.9 | 5.704 | 33.172 | 6.74 | 0.13 | 26.145 | 0.000 | 1471. | 1.7 |
| 4 | 4.0 | 5.707 | 33.170 | 6.75 | 0.13 | 26.143 | 0.004 | 1471. | 1.7 |
| 6 | 6.0 | 5.707 | 33.171 | 6.78 | 0.13 | 26.143 | 0.008 | 1471. | 1.7 |
| 8 | 8.0 | 5.720 | 33.172 | 6.80 | 0.13 | 26.143 | 0.011 | 1471. | 1.7 |
| 10 | 9.9 | 5.747 | 33.177 | 6.81 | 0.13 | 26.144 | 0.015 | 1472. | 1.7 |
| 12 | 12.0 | 5.792 | 33.190 | 6.79 | 0.12 | 26.148 | 0.019 | 1472. | 1.9 |
| 14 | 14.0 | 5.852 | 33.202 | 6.76 | 0.12 | 26.151 | 0.022 | 1472. | 1.8 |
| 16 | 16.0 | 5.895 | 33.216 | 6.73 | 0.12 | 26.157 | 0.026 | 1472. | 1.7 |
| 18 | 18.0 | 5.972 | 33.230 | 6.70 | 0.11 | 26.158 | 0.030 | 1473. | 1.4 |
| 20 | 20.0 | 5.993 | 33.230 | 6.70 | 0.11 | 26.156 | 0.033 | 1473. | 1.0 |
| 22 | 22.0 | 5.996 | 33.231 | 6.70 | 0.11 | 26.155 | 0.037 | 1473. | 0.5 |
| 24 | 24.0 | 6.000 | 33.231 | 6.71 | 0.11 | 26.155 | 0.041 | 1473. | -0.5 |
| 26 | 26.0 | 6.003 | 33.231 | 6.71 | 0.11 | 26.155 | 0.045 | 1473. | -0.3 |
| 28 | 28.0 | 6.013 | 33.233 | 6.71 | 0.11 | 26.155 | 0.048 | 1473. | 0.5 |
| 30 | 29.9 | 6.025 | 33.236 | 6.71 | 0.11 | 26.156 | 0.052 | 1473. | 0.5 |
| 32 | 32.0 | 6.031 | 33.237 | 6.71 | 0.10 | 26.156 | 0.056 | 1473. | 0.5 |
| 34 | 34.0 | 6.034 | 33.238 | 6.70 | 0.10 | 26.156 | 0.060 | 1473. | 0.5 |
| 36 | 36.0 | 6.034 | 33.238 | 6.70 | 0.10 | 26.156 | 0.063 | 1473. | 0.5 |
| 38 | 38.0 | 6.033 | 33.237 | 6.69 | 0.11 | 26.156 | 0.067 | 1473. | 0.4 |
| 40 | 40.1 | 6.032 | 33.238 | 6.69 | 0.11 | 26.156 | 0.071 | 1473. | 0.3 |
| 42 | 41.9 | 6.031 | 33.238 | 6.69 | 0.11 | 26.156 | 0.074 | 1473. | 0.3 |
| 44 | 44.0 | 6.032 | 33.238 | 6.70 | 0.11 | 26.156 | 0.078 | 1473. | 0.3 |
| 46 | 45.9 | 6.032 | 33.238 | 6.70 | 0.11 | 26.156 | 0.082 | 1473. | 0.3 |
| 48 | 48.0 | 6.032 | 33.238 | 6.71 | 0.11 | 26.157 | 0.085 | 1473. | 0.3 |
| 50 | 50.0 | 6.032 | 33.238 | 6.71 | 0.11 | 26.156 | 0.089 | 1473. | 0.3 |
| 52 | 52.0 | 6.034 | 33.238 | 6.71 | 0.11 | 26.156 | 0.093 | 1474. | 0.4 |
| 54 | 54.0 | 6.039 | 33.239 | 6.73 | 0.10 | 26.157 | 0.097 | 1474. | 0.4 |
| 56 | 56.0 | 6.039 | 33.239 | 6.74 | 0.10 | 26.157 | 0.100 | 1474. | 0.4 |
| 57 | 57.9 | 6.042 | 33.240 | 6.74 | 0.10 | 26.157 | 0.104 | 1474. | 0.4 |
| 60 | 60.0 | 6.052 | 33.242 | 6.73 | 0.10 | 26.157 | 0.108 | 1474. | 0.5 |
| 62 | 62.0 | 6.069 | 33.244 | 6.73 | 0.10 | 26.157 | 0.111 | 1474. | 0.5 |
| 63 | 64.0 | 6.079 | 33.246 | 6.73 | 0.10 | 26.157 | 0.115 | 1474. | 0.5 |
| 66 | 66.0 | 6.061 | 33.243 | 6.74 | 0.11 | 26.157 | 0.119 | 1474. | 0.5 |
| 67 | 68.0 | 6.055 | 33.243 | 6.75 | 0.11 | 26.157 | 0.123 | 1474. | 0.5 |
| 69 | 70.0 | 6.053 | 33.243 | 6.75 | 0.11 | 26.158 | 0.126 | 1474. | 0.5 |
| 71 | 72.0 | 6.053 | 33.243 | 6.75 | 0.11 | 26.158 | 0.130 | 1474. | 0.5 |
| 73 | 74.0 | 6.053 | 33.242 | 6.75 | 0.11 | 26.158 | 0.134 | 1474. | 0.4 |
| 75 | 76.0 | 6.052 | 33.243 | 6.75 | 0.11 | 26.158 | 0.137 | 1474. | 0.3 |
| 77 | 78.0 | 6.056 | 33.244 | 6.75 | 0.11 | 26.159 | 0.141 | 1474. | 0.2 |
| 79 | 80.0 | 6.065 | 33.245 | 6.75 | 0.11 | 26.158 | 0.145 | 1474. | 0.2 |
| 81 | 82.0 | 6.065 | 33.245 | 6.75 | 0.10 | 26.158 | 0.148 | 1474. | 0.2 |
| 83 | 84.0 | 6.063 | 33.244 | 6.75 | 0.11 | 26.158 | 0.152 | 1474. | 0.3 |
| 85 | 86.0 | 6.059 | 33.244 | 6.76 | 0.11 | 26.158 | 0.156 | 1474. | 0.3 |
| 87 | 88.0 | 6.060 | 33.244 | 6.75 | 0.11 | 26.158 | 0.160 | 1474. | 0.5 |
| 89 | 90.0 | 6.059 | 33.244 | 6.76 | 0.11 | 26.158 | 0.163 | 1474. | 0.5 |
| 91 | 91.9 | 6.058 | 33.245 | 6.76 | 0.11 | 26.159 | 0.167 | 1474. | 0.5 |
| 93 | 93.9 | 6.058 | 33.245 | 6.76 | 0.11 | 26.159 | 0.171 | 1474. | 0.5 |
| 95 | 96.0 | 6.059 | 33.245 | 6.76 | 0.11 | 26.159 | 0.174 | 1474. | 0.4 |
| 97 | 98.0 | 6.058 | 33.245 | 6.76 | 0.11 | 26.159 | 0.178 | 1474. | 0.3 |
| 99 | 100.0 | 6.058 | 33.245 | 6.76 | 0.13 | 26.159 | 0.182 | 1474. | -0.1 |

| SHIP OC | CRUISE 181 | STATION 27 | DATE 06 FEB 1987 | | | EST 2228 | LATITUDE 42°30.8'N | | LONGITUDE 69°29.9'W | | DEPTH 275 |
|------------|---------------|---------------|---------------------|-------------|------------------------|----------------------------|--|--------------|------------------------|--|--------------|
| DEPTH m | PRESS dbar | TEMP °C | SALIN psu | OXY ml/l | ATN m ⁻¹ | SIGT gm/cm ³ | DYHT A 10m ² /s ² | S SPD m/s | N cph | | |
| 101 | 102.0 | 6.058 | 33.245 | 6.75 | 0.11 | 26.159 | 0.186 | 1474. | -0.2 | | |
| 103 | 104.0 | 6.059 | 33.245 | 6.75 | 0.11 | 26.159 | 0.189 | 1474. | -0.2 | | |
| 105 | 106.0 | 6.058 | 33.245 | 6.76 | 0.11 | 26.159 | 0.193 | 1474. | -0.3 | | |
| 107 | 108.0 | 6.055 | 33.244 | 6.76 | 0.11 | 26.158 | 0.197 | 1475. | -0.2 | | |
| 109 | 110.0 | 6.056 | 33.244 | 6.76 | 0.11 | 26.158 | 0.201 | 1475. | 0.3 | | |
| 111 | 112.0 | 6.056 | 33.244 | 6.77 | 0.11 | 26.158 | 0.204 | 1475. | 0.5 | | |
| 113 | 113.9 | 6.054 | 33.244 | 6.76 | 0.11 | 26.158 | 0.208 | 1475. | 0.5 | | |
| 115 | 116.0 | 6.054 | 33.244 | 6.76 | 0.11 | 26.159 | 0.212 | 1475. | 0.6 | | |
| 117 | 118.0 | 6.055 | 33.245 | 6.76 | 0.11 | 26.159 | 0.215 | 1475. | 0.7 | | |
| 119 | 120.0 | 6.055 | 33.245 | 6.77 | 0.11 | 26.160 | 0.219 | 1475. | 0.8 | | |
| 121 | 122.0 | 6.054 | 33.245 | 6.76 | 0.11 | 26.160 | 0.223 | 1475. | 0.8 | | |
| 123 | 124.0 | 6.053 | 33.245 | 6.76 | 0.11 | 26.160 | 0.227 | 1475. | 0.7 | | |
| 125 | 126.0 | 6.054 | 33.247 | 6.76 | 0.11 | 26.161 | 0.230 | 1475. | 0.7 | | |
| 127 | 128.0 | 6.056 | 33.247 | 6.75 | 0.11 | 26.161 | 0.234 | 1475. | 0.8 | | |
| 129 | 130.0 | 6.059 | 33.248 | 6.73 | 0.11 | 26.161 | 0.238 | 1475. | 1.1 | | |
| 131 | 132.1 | 6.060 | 33.248 | 6.70 | 0.11 | 26.161 | 0.242 | 1475. | 1.5 | | |
| 133 | 134.0 | 6.063 | 33.249 | 6.68 | 0.11 | 26.161 | 0.245 | 1475. | 2.2 | | |
| 135 | 136.0 | 6.081 | 33.255 | 6.65 | 0.10 | 26.164 | 0.249 | 1475. | 2.6 | | |
| 137 | 138.0 | 6.127 | 33.267 | 6.61 | 0.10 | 26.168 | 0.253 | 1475. | 3.0 | | |
| 139 | 140.0 | 6.187 | 33.287 | 6.57 | 0.10 | 26.176 | 0.256 | 1476. | 3.3 | | |
| 141 | 142.0 | 6.328 | 33.330 | 6.49 | 0.09 | 26.192 | 0.260 | 1476. | 3.8 | | |
| 143 | 144.1 | 6.374 | 33.340 | 6.44 | 0.09 | 26.194 | 0.264 | 1476. | 4.2 | | |
| 145 | 146.0 | 6.399 | 33.356 | 6.39 | 0.10 | 26.204 | 0.267 | 1477. | 4.3 | | |
| 147 | 148.0 | 6.434 | 33.379 | 6.34 | 0.10 | 26.217 | 0.271 | 1477. | 4.5 | | |
| 149 | 150.0 | 6.479 | 33.417 | 6.28 | 0.12 | 26.241 | 0.274 | 1477. | 4.6 | | |
| 151 | 152.0 | 6.502 | 33.438 | 6.05 | 0.10 | 26.255 | 0.278 | 1477. | 4.7 | | |
| 153 | 154.0 | 6.516 | 33.447 | 5.81 | 0.10 | 26.260 | 0.282 | 1477. | 4.5 | | |
| 155 | 156.0 | 6.547 | 33.475 | 5.77 | 0.10 | 26.278 | 0.285 | 1478. | 4.4 | | |
| 157 | 158.0 | 6.574 | 33.499 | 5.74 | 0.10 | 26.293 | 0.289 | 1478. | 4.3 | | |
| 159 | 160.0 | 6.587 | 33.508 | 5.70 | 0.10 | 26.299 | 0.292 | 1478. | 4.4 | | |
| 161 | 162.0 | 6.595 | 33.514 | 5.66 | 0.10 | 26.303 | 0.296 | 1478. | 4.7 | | |
| 163 | 164.0 | 6.624 | 33.544 | 5.63 | 0.10 | 26.322 | 0.299 | 1478. | 5.0 | | |
| 165 | 166.0 | 6.641 | 33.566 | 5.60 | 0.11 | 26.337 | 0.302 | 1478. | 5.1 | | |
| 167 | 168.0 | 6.657 | 33.593 | 5.58 | 0.11 | 26.356 | 0.306 | 1478. | 5.2 | | |
| 169 | 170.0 | 6.674 | 33.629 | 5.56 | 0.12 | 26.383 | 0.309 | 1478. | 5.2 | | |
| 171 | 172.0 | 6.681 | 33.662 | 5.54 | 0.13 | 26.408 | 0.312 | 1479. | 5.0 | | |
| 173 | 174.0 | 6.682 | 33.670 | 5.53 | 0.13 | 26.414 | 0.316 | 1479. | 4.7 | | |
| 175 | 176.1 | 6.680 | 33.676 | 5.52 | 0.13 | 26.419 | 0.319 | 1479. | 4.5 | | |
| 176 | 177.9 | 6.671 | 33.696 | 5.50 | 0.14 | 26.436 | 0.322 | 1479. | 4.3 | | |
| 178 | 180.0 | 6.669 | 33.708 | 5.50 | 0.14 | 26.445 | 0.325 | 1479. | 4.3 | | |
| 180 | 182.0 | 6.666 | 33.717 | 5.26 | 0.15 | 26.453 | 0.329 | 1479. | 4.3 | | |
| 183 | 184.1 | 6.663 | 33.738 | 5.12 | 0.17 | 26.470 | 0.332 | 1479. | 4.3 | | |
| 184 | 186.0 | 6.677 | 33.763 | 5.12 | 0.19 | 26.488 | 0.335 | 1479. | 4.1 | | |
| 186 | 188.0 | 6.699 | 33.779 | 5.11 | 0.21 | 26.497 | 0.338 | 1479. | 4.0 | | |
| 188 | 190.0 | 6.700 | 33.785 | 5.11 | 0.21 | 26.503 | 0.341 | 1479. | 3.7 | | |
| 190 | 192.0 | 6.701 | 33.797 | 5.11 | 0.22 | 26.512 | 0.344 | 1479. | 3.3 | | |
| 192 | 194.0 | 6.702 | 33.801 | 5.12 | 0.22 | 26.515 | 0.347 | 1479. | 2.9 | | |
| 194 | 196.1 | 6.717 | 33.817 | 5.12 | 0.24 | 26.525 | 0.350 | 1479. | 2.6 | | |
| 196 | 198.0 | 6.725 | 33.822 | 5.13 | 0.25 | 26.528 | 0.353 | 1479. | 2.3 | | |
| 198 | 200.0 | 6.728 | 33.824 | 5.15 | 0.25 | 26.529 | 0.356 | 1479. | 2.0 | | |

| SHIP OC | CRUISE 181 | STATION 27 | DATE 06 FEB 1987 | | | EST 2228 | LATITUDE 42°30.8'N | | LONGITUDE 69°29.9'W | | DEPTH 275 |
|------------|---------------|---------------|---------------------|-------------|------------------------|----------------------------|--|--------------|------------------------|--|--------------|
| DEPTH m | PRESS dbar | TEMP °C | SALIN psu | OXY ml/l | ATN m ⁻¹ | SIGT gm/cm ³ | DYHT A 10m ² /s ² | S SPD m/s | N cph | | |
| 200 | 202.0 | 6.730 | 33.826 | 5.16 | 0.25 | 26.531 | 0.359 | 1479. | 1.9 | | |
| 202 | 204.0 | 6.728 | 33.823 | 5.18 | 0.23 | 26.529 | 0.362 | 1479. | 1.8 | | |
| 204 | 206.0 | 6.728 | 33.824 | 5.19 | 0.22 | 26.529 | 0.366 | 1480. | 1.9 | | |
| 206 | 208.0 | 6.729 | 33.832 | 5.19 | 0.23 | 26.536 | 0.369 | 1480. | 2.0 | | |
| 208 | 210.1 | 6.730 | 33.836 | 5.19 | 0.25 | 26.539 | 0.372 | 1480. | 2.2 | | |
| 210 | 212.0 | 6.729 | 33.841 | 5.19 | 0.28 | 26.543 | 0.375 | 1480. | 2.4 | | |
| 212 | 214.0 | 6.727 | 33.845 | 5.19 | 0.29 | 26.546 | 0.378 | 1480. | 2.4 | | |
| 214 | 216.1 | 6.727 | 33.847 | 5.19 | 0.29 | 26.548 | 0.381 | 1480. | 2.3 | | |
| 216 | 217.9 | 6.728 | 33.854 | 5.19 | 0.31 | 26.553 | 0.384 | 1480. | 2.3 | | |
| 218 | 220.0 | 6.732 | 33.860 | 5.19 | 0.32 | 26.557 | 0.387 | 1480. | 2.2 | | |
| 220 | 221.9 | 6.741 | 33.866 | 5.18 | 0.33 | 26.561 | 0.390 | 1480. | 2.0 | | |
| 222 | 224.0 | 6.749 | 33.869 | 5.17 | 0.34 | 26.562 | 0.393 | 1480. | 1.9 | | |
| 224 | 225.9 | 6.754 | 33.873 | 5.17 | 0.37 | 26.564 | 0.395 | 1480. | 1.7 | | |
| 226 | 228.0 | 6.755 | 33.874 | 5.18 | 0.38 | 26.565 | 0.399 | 1480. | 1.5 | | |
| 228 | 230.0 | 6.755 | 33.874 | 5.17 | 0.38 | 26.565 | 0.402 | 1480. | 1.3 | | |
| 230 | 232.0 | 6.756 | 33.877 | 5.17 | 0.44 | 26.567 | 0.405 | 1480. | 1.2 | | |
| 232 | 234.0 | 6.757 | 33.879 | 5.17 | 0.48 | 26.569 | 0.408 | 1480. | 1.0 | | |
| 234 | 236.0 | 6.757 | 33.879 | 5.17 | 0.50 | 26.569 | 0.411 | 1480. | 0.9 | | |
| 236 | 237.9 | 6.757 | 33.879 | 5.17 | 0.51 | 26.569 | 0.413 | 1480. | 0.7 | | |
| 238 | 240.0 | 6.758 | 33.879 | 5.17 | 0.51 | 26.569 | 0.417 | 1480. | 0.4 | | |
| 240 | 242.0 | 6.758 | 33.879 | 5.17 | 0.51 | 26.569 | 0.420 | 1480. | 0.3 | | |
| 242 | 244.0 | 6.758 | 33.879 | 5.17 | 0.52 | 26.569 | 0.422 | 1480. | 0.4 | | |
| 244 | 246.0 | 6.758 | 33.879 | 5.18 | 0.52 | 26.569 | 0.425 | 1480. | 0.5 | | |
| 246 | 248.0 | 6.758 | 33.879 | 5.17 | 0.53 | 26.569 | 0.428 | 1480. | 0.5 | | |
| 248 | 250.0 | 6.758 | 33.880 | 5.17 | 0.54 | 26.569 | 0.431 | 1480. | 0.4 | | |
| 250 | 252.0 | 6.758 | 33.880 | 5.17 | 0.55 | 26.569 | 0.434 | 1480. | 0.4 | | |
| 252 | 254.0 | 6.759 | 33.880 | 5.17 | 0.55 | 26.569 | 0.437 | 1480. | 0.4 | | |
| 254 | 256.0 | 6.759 | 33.880 | 5.17 | 0.56 | 26.569 | 0.440 | 1481. | 0.3 | | |
| 256 | 258.0 | 6.759 | 33.880 | 5.16 | 0.56 | 26.569 | 0.443 | 1481. | 0.2 | | |
| 257 | 259.2 | 6.759 | 33.880 | 5.17 | 0.55 | 26.569 | 0.445 | 1481. | 0.1 | | |
| 258 | 260.0 | 6.759 | 33.880 | 5.17 | 0.55 | 26.569 | 0.446 | 1481. | 0.1 | | |
| 259 | 261.0 | 6.759 | 33.880 | 5.17 | 0.55 | 26.569 | 0.448 | 1481. | 0.3 | | |
| 260 | 262.0 | 6.759 | 33.880 | 5.17 | 0.56 | 26.570 | 0.449 | 1481. | 0.2 | | |
| 261 | 263.0 | 6.760 | 33.880 | 5.17 | 0.56 | 26.569 | 0.451 | 1481. | -0.1 | | |
| 262 | 264.0 | 6.760 | 33.880 | 5.17 | 0.56 | 26.569 | 0.452 | 1481. | 0.1 | | |
| 263 | 265.0 | 6.761 | 33.880 | 5.17 | 0.57 | 26.569 | 0.454 | 1481. | 0.1 | | |
| 264 | 266.0 | 6.761 | 33.880 | 5.17 | 0.57 | 26.569 | 0.455 | 1481. | 0.1 | | |
| 265 | 267.0 | 6.761 | 33.880 | 5.17 | 0.57 | 26.569 | 0.457 | 1481. | 0.1 | | |
| 265 | 267.6 | 6.761 | 33.880 | 5.15 | 0.57 | 26.569 | 0.458 | 1481. | 0.1 | | |

| SHIP OC | CRUISE 181 | STATION 28 | DATE 06 FEB 1987 | EST 2346 | LATITUDE 42°24.5'N | LONGITUDE 69°39.0'W | DEPTH 253 | | | | | | | | | | | | | | |
|---------|------------|------------|------------------|----------|---------------------|-------------------------|---|-----------|-------|--|--|--|--|--|--|--|--|--|--|--|--|
| DEPTH m | PRESS dbar | TEMP °C | SALIN psu | OXY ml/l | ATN m ⁻¹ | SIGT gm/cm ³ | DYHT A 10m ² /s ² | S SPD m/s | N cph | | | | | | | | | | | | |
| 2 | 2.3 | 5.777 | 33.180 | 6.72 | 0.13 | 26.142 | 0.000 | 1472. | -0.5 | | | | | | | | | | | | |
| 4 | 4.0 | 5.789 | 33.178 | 6.74 | 0.12 | 26.139 | 0.003 | 1472. | -0.5 | | | | | | | | | | | | |
| 6 | 6.1 | 5.790 | 33.178 | 6.77 | 0.12 | 26.139 | 0.007 | 1472. | -0.5 | | | | | | | | | | | | |
| 8 | 8.0 | 5.789 | 33.178 | 6.79 | 0.12 | 26.139 | 0.011 | 1472. | -0.5 | | | | | | | | | | | | |
| 10 | 10.1 | 5.788 | 33.178 | 6.80 | 0.12 | 26.140 | 0.015 | 1472. | -0.5 | | | | | | | | | | | | |
| 12 | 11.9 | 5.788 | 33.179 | 6.81 | 0.12 | 26.140 | 0.018 | 1472. | -0.1 | | | | | | | | | | | | |
| 14 | 14.1 | 5.794 | 33.179 | 6.81 | 0.12 | 26.139 | 0.022 | 1472. | -0.2 | | | | | | | | | | | | |
| 16 | 16.0 | 5.793 | 33.179 | 6.81 | 0.12 | 26.139 | 0.026 | 1472. | -0.3 | | | | | | | | | | | | |
| 18 | 18.0 | 5.798 | 33.179 | 6.83 | 0.12 | 26.139 | 0.029 | 1472. | -0.4 | | | | | | | | | | | | |
| 20 | 20.0 | 5.797 | 33.179 | 6.84 | 0.12 | 26.139 | 0.033 | 1472. | -0.4 | | | | | | | | | | | | |
| 22 | 22.0 | 5.800 | 33.180 | 6.83 | 0.12 | 26.139 | 0.037 | 1472. | -0.2 | | | | | | | | | | | | |
| 24 | 24.0 | 5.802 | 33.180 | 6.82 | 0.12 | 26.139 | 0.040 | 1472. | -0.2 | | | | | | | | | | | | |
| 26 | 26.0 | 5.800 | 33.179 | 6.81 | 0.12 | 26.139 | 0.044 | 1472. | 0.4 | | | | | | | | | | | | |
| 28 | 27.9 | 5.796 | 33.179 | 6.81 | 0.13 | 26.139 | 0.048 | 1472. | 0.5 | | | | | | | | | | | | |
| 30 | 29.9 | 5.799 | 33.180 | 6.82 | 0.12 | 26.139 | 0.052 | 1472. | 0.5 | | | | | | | | | | | | |
| 32 | 32.0 | 5.798 | 33.179 | 6.83 | 0.12 | 26.139 | 0.056 | 1472. | 0.5 | | | | | | | | | | | | |
| 34 | 34.0 | 5.807 | 33.183 | 6.83 | 0.12 | 26.141 | 0.059 | 1472. | 0.4 | | | | | | | | | | | | |
| 36 | 36.0 | 5.810 | 33.183 | 6.83 | 0.12 | 26.140 | 0.063 | 1472. | 0.6 | | | | | | | | | | | | |
| 38 | 38.0 | 5.814 | 33.183 | 6.84 | 0.12 | 26.140 | 0.067 | 1472. | 0.6 | | | | | | | | | | | | |
| 40 | 40.0 | 5.814 | 33.182 | 6.84 | 0.12 | 26.139 | 0.071 | 1472. | 0.6 | | | | | | | | | | | | |
| 42 | 42.0 | 5.808 | 33.181 | 6.84 | 0.12 | 26.139 | 0.074 | 1472. | 0.6 | | | | | | | | | | | | |
| 44 | 44.0 | 5.834 | 33.189 | 6.83 | 0.12 | 26.142 | 0.078 | 1473. | 0.7 | | | | | | | | | | | | |
| 46 | 45.9 | 5.836 | 33.187 | 6.83 | 0.12 | 26.141 | 0.082 | 1473. | 0.8 | | | | | | | | | | | | |
| 48 | 48.0 | 5.840 | 33.189 | 6.83 | 0.12 | 26.141 | 0.085 | 1473. | 0.8 | | | | | | | | | | | | |
| 50 | 50.0 | 5.842 | 33.189 | 6.84 | 0.12 | 26.142 | 0.089 | 1473. | 0.7 | | | | | | | | | | | | |
| 52 | 51.9 | 5.845 | 33.190 | 6.84 | 0.12 | 26.141 | 0.093 | 1473. | 0.5 | | | | | | | | | | | | |
| 54 | 54.0 | 5.852 | 33.192 | 6.83 | 0.12 | 26.142 | 0.097 | 1473. | 0.6 | | | | | | | | | | | | |
| 56 | 56.0 | 5.852 | 33.192 | 6.84 | 0.12 | 26.142 | 0.100 | 1473. | 0.6 | | | | | | | | | | | | |
| 58 | 58.0 | 5.854 | 33.192 | 6.84 | 0.12 | 26.142 | 0.104 | 1473. | 0.6 | | | | | | | | | | | | |
| 60 | 60.0 | 5.855 | 33.193 | 6.84 | 0.12 | 26.143 | 0.108 | 1473. | 0.6 | | | | | | | | | | | | |
| 62 | 62.0 | 5.856 | 33.193 | 6.84 | 0.12 | 26.143 | 0.112 | 1473. | 0.7 | | | | | | | | | | | | |
| 64 | 64.0 | 5.856 | 33.193 | 6.84 | 0.12 | 26.143 | 0.115 | 1473. | 0.8 | | | | | | | | | | | | |
| 65 | 66.0 | 5.859 | 33.194 | 6.84 | 0.12 | 26.143 | 0.119 | 1473. | 0.8 | | | | | | | | | | | | |
| 68 | 68.1 | 5.863 | 33.196 | 6.84 | 0.12 | 26.144 | 0.123 | 1473. | 0.9 | | | | | | | | | | | | |
| 69 | 70.0 | 5.869 | 33.198 | 6.83 | 0.11 | 26.145 | 0.127 | 1473. | 0.9 | | | | | | | | | | | | |
| 71 | 72.0 | 5.879 | 33.200 | 6.83 | 0.11 | 26.146 | 0.130 | 1473. | 0.8 | | | | | | | | | | | | |
| 73 | 74.0 | 5.883 | 33.200 | 6.83 | 0.11 | 26.145 | 0.134 | 1473. | 0.7 | | | | | | | | | | | | |
| 75 | 75.9 | 5.887 | 33.202 | 6.83 | 0.11 | 26.146 | 0.138 | 1473. | 0.7 | | | | | | | | | | | | |
| 77 | 78.0 | 5.895 | 33.203 | 6.82 | 0.11 | 26.146 | 0.141 | 1473. | 0.6 | | | | | | | | | | | | |
| 79 | 80.0 | 5.899 | 33.204 | 6.82 | 0.11 | 26.146 | 0.145 | 1473. | 0.4 | | | | | | | | | | | | |
| 81 | 82.0 | 5.899 | 33.204 | 6.83 | 0.11 | 26.146 | 0.149 | 1473. | 0.5 | | | | | | | | | | | | |
| 83 | 84.1 | 5.904 | 33.205 | 6.83 | 0.11 | 26.147 | 0.153 | 1473. | 0.3 | | | | | | | | | | | | |
| 85 | 86.0 | 5.909 | 33.206 | 6.83 | 0.11 | 26.146 | 0.156 | 1474. | 0.3 | | | | | | | | | | | | |
| 87 | 88.1 | 5.911 | 33.206 | 6.83 | 0.11 | 26.146 | 0.160 | 1474. | -0.1 | | | | | | | | | | | | |
| 89 | 90.1 | 5.910 | 33.206 | 6.83 | 0.11 | 26.146 | 0.164 | 1474. | -0.3 | | | | | | | | | | | | |
| 91 | 92.0 | 5.912 | 33.206 | 6.83 | 0.11 | 26.146 | 0.168 | 1474. | -0.3 | | | | | | | | | | | | |
| 93 | 94.0 | 5.913 | 33.206 | 6.82 | 0.11 | 26.146 | 0.171 | 1474. | -0.1 | | | | | | | | | | | | |
| 95 | 96.0 | 5.913 | 33.206 | 6.83 | 0.11 | 26.146 | 0.175 | 1474. | 0.3 | | | | | | | | | | | | |
| 97 | 98.0 | 5.915 | 33.206 | 6.83 | 0.11 | 26.146 | 0.179 | 1474. | 0.3 | | | | | | | | | | | | |
| 99 | 100.1 | 5.920 | 33.207 | 6.83 | 0.11 | 26.146 | 0.183 | 1474. | 0.4 | | | | | | | | | | | | |

| SHIP OC | CRUISE 181 | STATION 28 | DATE 06 FEB 1987 | EST 2346 | LATITUDE 42°24.5'N | LONGITUDE 69°39.0'W | DEPTH 253 | | | | | | | | | | | | | | |
|---------|------------|------------|------------------|----------|---------------------|-------------------------|---|-----------|-------|--|--|--|--|--|--|--|--|--|--|--|--|
| DEPTH m | PRESS dbar | TEMP °C | SALIN psu | OXY ml/l | ATN m ⁻¹ | SIGT gm/cm ³ | DYHT A 10m ² /s ² | S SPD m/s | N cph | | | | | | | | | | | | |
| 101 | 101.9 | 5.919 | 33.207 | 6.84 | 0.11 | 26.146 | 0.186 | 1474. | 0.4 | | | | | | | | | | | | |
| 103 | 104.0 | 5.920 | 33.208 | 6.83 | 0.11 | 26.147 | 0.190 | 1474. | 0.5 | | | | | | | | | | | | |
| 105 | 106.1 | 5.925 | 33.209 | 6.83 | 0.11 | 26.147 | 0.194 | 1474. | 0.5 | | | | | | | | | | | | |
| 107 | 107.9 | 5.925 | 33.208 | 6.83 | 0.11 | 26.146 | 0.197 | 1474. | 0.5 | | | | | | | | | | | | |
| 109 | 110.0 | 5.924 | 33.208 | 6.83 | 0.11 | 26.147 | 0.201 | 1474. | 0.5 | | | | | | | | | | | | |
| 111 | 112.1 | 5.924 | 33.209 | 6.83 | 0.11 | 26.147 | 0.205 | 1474. | 0.4 | | | | | | | | | | | | |
| 113 | 114.0 | 5.924 | 33.209 | 6.83 | 0.11 | 26.147 | 0.209 | 1474. | 0.3 | | | | | | | | | | | | |
| 115 | 116.0 | 5.927 | 33.210 | 6.82 | 0.11 | 26.147 | 0.213 | 1474. | 0.4 | | | | | | | | | | | | |
| 117 | 118.0 | 5.942 | 33.212 | 6.81 | 0.11 | 26.148 | 0.216 | 1474. | 0.7 | | | | | | | | | | | | |
| 119 | 120.0 | 5.946 | 33.212 | 6.81 | 0.11 | 26.147 | 0.220 | 1474. | 1.1 | | | | | | | | | | | | |
| 121 | 122.0 | 5.943 | 33.211 | 6.81 | 0.11 | 26.147 | 0.224 | 1474. | 1.4 | | | | | | | | | | | | |
| 123 | 124.0 | 5.951 | 33.214 | 6.81 | 0.11 | 26.148 | 0.227 | 1474. | 1.6 | | | | | | | | | | | | |
| 125 | 126.0 | 5.990 | 33.224 | 6.79 | 0.10 | 26.151 | 0.231 | 1475. | 1.9 | | | | | | | | | | | | |
| 127 | 128.0 | 6.061 | 33.240 | 6.75 | 0.10 | 26.155 | 0.235 | 1475. | 2.1 | | | | | | | | | | | | |
| 129 | 130.1 | 6.091 | 33.249 | 6.73 | 0.10 | 26.158 | 0.239 | 1475. | 2.1 | | | | | | | | | | | | |
| 131 | 132.0 | 6.112 | 33.256 | 6.69 | 0.10 | 26.161 | 0.242 | 1475. | 2.1 | | | | | | | | | | | | |
| 133 | 134.0 | 6.126 | 33.263 | 6.66 | 0.10 | 26.164 | 0.246 | 1475. | 2.2 | | | | | | | | | | | | |
| 135 | 136.0 | 6.163 | 33.272 | 6.62 | 0.10 | 26.167 | 0.250 | 1475. | 2.4 | | | | | | | | | | | | |
| 137 | 137.9 | 6.179 | 33.274 | 6.59 | 0.10 | 26.167 | 0.253 | 1476. | 2.7 | | | | | | | | | | | | |
| 139 | 140.0 | 6.189 | 33.279 | 6.55 | 0.10 | 26.170 | 0.257 | 1476. | 3.0 | | | | | | | | | | | | |
| 141 | 142.0 | 6.254 | 33.306 | 6.50 | 0.10 | 26.182 | 0.261 | 1476. | 3.2 | | | | | | | | | | | | |
| 143 | 144.3 | 6.292 | 33.319 | 6.45 | 0.11 | 26.188 | 0.265 | 1476. | 3.3 | | | | | | | | | | | | |
| 145 | 146.1 | 6.328 | 33.339 | 6.42 | 0.10 | 26.199 | 0.268 | 1476. | 3.4 | | | | | | | | | | | | |
| 147 | 148.0 | 6.357 | 33.355 | 6.37 | 0.10 | 26.208 | 0.272 | 1476. | 3.7 | | | | | | | | | | | | |
| 149 | 150.0 | 6.368 | 33.359 | 6.33 | 0.10 | 26.210 | 0.276 | 1477. | 4.1 | | | | | | | | | | | | |
| 151 | 152.0 | 6.382 | 33.369 | 6.30 | 0.10 | 26.216 | 0.279 | 1477. | 4.5 | | | | | | | | | | | | |
| 153 | 154.0 | 6.396 | 33.382 | 6.23 | 0.11 | 26.224 | 0.283 | 1477. | 4.8 | | | | | | | | | | | | |
| 155 | 156.0 | 6.462 | 33.426 | 5.87 | 0.11 | 26.251 | 0.286 | 1477. | 5.1 | | | | | | | | | | | | |
| 157 | 158.0 | 6.541 | 33.474 | 5.82 | 0.10 | 26.278 | 0.290 | 1478. | 5.3 | | | | | | | | | | | | |
| 159 | 160.0 | 6.597 | 33.506 | 5.77 | 0.10 | 26.296 | 0.293 | 1478. | 5.3 | | | | | | | | | | | | |
| 161 | 162.1 | 6.631 | 33.535 | 5.70 | 0.10 | 26.314 | 0.297 | 1478. | 5.0 | | | | | | | | | | | | |
| 163 | 164.0 | 6.648 | 33.555 | 5.64 | 0.10 | 26.328 | 0.300 | 1478. | 4.6 | | | | | | | | | | | | |
| 165 | 165.9 | 6.667 | 33.576 | 5.60 | 0.11 | 26.342 | 0.304 | 1478. | 4.6 | | | | | | | | | | | | |
| 167 | 168.1 | 6.676 | 33.583 | 5.56 | 0.11 | 26.346 | 0.307 | 1478. | 4.6 | | | | | | | | | | | | |
| 169 | 170.0 | 6.683 | 33.593 | 5.53 | 0.11 | 26.354 | 0.310 | 1478. | 4.5 | | | | | | | | | | | | |
| 171 | 172.0 | 6.691 | 33.607 | 5.51 | 0.12 | 26.363 | 0.314 | 1479. | 4.5 | | | | | | | | | | | | |
| 173 | 174.0 | 6.704 | 33.659 | 5.50 | 0.12 | 26.402 | 0.317 | 1479. | 4.4 | | | | | | | | | | | | |
| 175 | 176.1 | 6.698 | 33.668 | 5.51 | 0.12 | 26.410 | 0.320 | 1479. | 4.3 | | | | | | | | | | | | |
| 176 | 177.9 | 6.693 | 33.672 | 5.50 | 0.12 | 26.414 | 0.324 | 1479. | 4.1 | | | | | | | | | | | | |
| 178 | 180.0 | 6.686 | 33.678 | 5.50 | 0.12 | 26.420 | 0.327 | 1479. | 3.8 | | | | | | | | | | | | |
| 181 | 182.0 | 6.679 | 33.686 | 5.49 | 0.13 | 26.427 | 0.330 | 1479. | 3.4 | | | | | | | | | | | | |
| 182 | 184.0 | 6.671 | 33.694 | 5.49 | 0.13 | 26.435 | 0.333 | 1479. | 3.4 | | | | | | | | | | | | |
| 184 | 185.9 | 6.609 | 33.693 | 5.14 | 0.11 | 26.442 | 0.336 | 1479. | 3.5 | | | | | | | | | | | | |
| 186 | 188.0 | 6.575 | 33.701 | 5.15 | 0.10 | 26.453 | 0.340 | 1478. | 3.4 | | | | | | | | | | | | |
| 189 | 190.1 | 6.566 | 33.709 | 5.16 | 0.10 | 26.460 | 0.343 | 1478. | 3.4 | | | | | | | | | | | | |
| 190 | 192.0 | 6.563 | 33.715 | 5.17 | 0.10 | 26.465 | 0.346 | 1478. | 3.5 | | | | | | | | | | | | |
| 192 | 194.0 | 6.567 | 33.725 | 5.17 | 0.10 | 26.472 | 0.349 | 1479. | 3.8 | | | | | | | | | | | | |
| 194 | 196.0 | 6.575 | 33.731 | 5.17 | 0.11 | 26.476 | 0.352 | 1479. | 3.8 | | | | | | | | | | | | |
| 196 | 197.9 | 6.591 | 33.743 | 5.18 | 0.12 | 26.484 | 0.355 | 1479. | 3.8 | | | | | | | | | | | | |
| 198 | 199.9 | 6.617 | 33.775 | 5.18 | 0.15 | 26.506 | 0.359 | 1479. | 3.7 | | | | | | | | | | | | |

| SHIP OC | CRUISE 181 | STATION 28 | DATE 06 FEB 1987 | | EST 2346 | LATITUDE 42°24.5'N | LONGITUDE 69°39.0'W | DEPTH 253 | | |
|---------|------------|------------|------------------|----------|---------------------|-------------------------|---|-----------|-------|--|
| DEPTH m | PRESS dbar | TEMP °C | SALIN psu | OXY ml/l | ATN m ⁻¹ | SIGT gm/cm ³ | DYHT A 10m ² /s ² | S SPD m/s | N cph | |
| 200 | 202.0 | 6.683 | 33.808 | 5.16 | 0.19 | 26.523 | 0.362 | 1479. | 3.5 | |
| 202 | 204.0 | 6.694 | 33.806 | 5.17 | 0.20 | 26.520 | 0.365 | 1479. | 3.3 | |
| 204 | 206.0 | 6.711 | 33.815 | 5.17 | 0.21 | 26.525 | 0.368 | 1479. | 3.0 | |
| 206 | 208.0 | 6.712 | 33.820 | 5.18 | 0.22 | 26.528 | 0.371 | 1479. | 2.7 | |
| 208 | 209.9 | 6.708 | 33.821 | 5.19 | 0.22 | 26.530 | 0.374 | 1479. | 2.6 | |
| 210 | 212.0 | 6.696 | 33.827 | 5.20 | 0.22 | 26.536 | 0.377 | 1479. | 2.7 | |
| 212 | 214.0 | 6.707 | 33.839 | 5.20 | 0.23 | 26.544 | 0.380 | 1480. | 2.7 | |
| 214 | 216.0 | 6.720 | 33.848 | 5.19 | 0.25 | 26.549 | 0.383 | 1480. | 2.6 | |
| 216 | 218.0 | 6.723 | 33.852 | 5.18 | 0.27 | 26.552 | 0.386 | 1480. | 2.5 | |
| 218 | 220.1 | 6.726 | 33.856 | 5.18 | 0.29 | 26.555 | 0.389 | 1480. | 2.3 | |
| 220 | 222.0 | 6.730 | 33.860 | 5.18 | 0.32 | 26.557 | 0.392 | 1480. | 2.1 | |
| 222 | 224.1 | 6.733 | 33.865 | 5.17 | 0.34 | 26.561 | 0.395 | 1480. | 1.9 | |
| 224 | 226.1 | 6.737 | 33.868 | 5.17 | 0.38 | 26.563 | 0.398 | 1480. | 1.8 | |
| 226 | 227.9 | 6.741 | 33.872 | 5.17 | 0.43 | 26.565 | 0.401 | 1480. | 1.7 | |
| 228 | 230.0 | 6.745 | 33.874 | 5.17 | 0.49 | 26.567 | 0.404 | 1480. | 1.5 | |
| 230 | 232.0 | 6.747 | 33.876 | 5.16 | 0.52 | 26.568 | 0.407 | 1480. | 1.3 | |
| 232 | 234.0 | 6.748 | 33.876 | 5.16 | 0.53 | 26.568 | 0.410 | 1480. | 1.1 | |
| 233 | 235.2 | 6.749 | 33.877 | 5.16 | 0.54 | 26.568 | 0.412 | 1480. | 0.9 | |
| 234 | 236.0 | 6.749 | 33.877 | 5.16 | 0.55 | 26.568 | 0.413 | 1480. | 0.8 | |
| 235 | 237.1 | 6.749 | 33.877 | 5.16 | 0.55 | 26.568 | 0.414 | 1480. | 0.7 | |
| 236 | 238.0 | 6.750 | 33.877 | 5.16 | 0.55 | 26.568 | 0.416 | 1480. | 0.8 | |
| 237 | 239.0 | 6.750 | 33.878 | 5.16 | 0.56 | 26.569 | 0.417 | 1480. | 0.7 | |
| 238 | 240.0 | 6.750 | 33.878 | 5.15 | 0.57 | 26.569 | 0.419 | 1480. | 0.5 | |
| 239 | 241.0 | 6.750 | 33.878 | 5.14 | 0.58 | 26.569 | 0.420 | 1480. | 0.4 | |
| 240 | 242.0 | 6.750 | 33.878 | 5.13 | 0.56 | 26.569 | 0.422 | 1480. | 0.4 | |
| 241 | 242.9 | 6.750 | 33.878 | 5.13 | 0.57 | 26.569 | 0.423 | 1480. | 0.4 | |
| 242 | 244.0 | 6.750 | 33.878 | 5.13 | 0.58 | 26.569 | 0.425 | 1480. | 0.4 | |
| 243 | 244.9 | 6.750 | 33.878 | 5.14 | 0.58 | 26.569 | 0.426 | 1480. | 0.4 | |

| SHIP OC | CRUISE 181 | STATION 29 | DATE 07 FEB 1987 | | EST 0110 | LATITUDE 42°18.1'N | LONGITUDE 69°46.8'W | DEPTH 247 | | |
|---------|------------|------------|------------------|----------|---------------------|-------------------------|---|-----------|-------|--|
| DEPTH m | PRESS dbar | TEMP °C | SALIN psu | OXY ml/l | ATN m ⁻¹ | SIGT gm/cm ³ | DYHT A 10m ² /s ² | S SPD m/s | N cph | |
| 2 | 2.1 | 5.924 | 33.190 | 6.68 | 0.13 | 26.132 | 0.000 | 1472. | 0.4 | |
| 4 | 4.0 | 5.924 | 33.190 | 6.70 | 0.14 | 26.132 | 0.004 | 1472. | 0.4 | |
| 6 | 5.9 | 5.921 | 33.189 | 6.72 | 0.14 | 26.132 | 0.007 | 1472. | 0.4 | |
| 8 | 8.0 | 5.919 | 33.189 | 6.72 | 0.14 | 26.132 | 0.011 | 1472. | 0.4 | |
| 10 | 10.0 | 5.917 | 33.189 | 6.73 | 0.14 | 26.132 | 0.015 | 1472. | 0.4 | |
| 12 | 12.0 | 5.917 | 33.189 | 6.74 | 0.14 | 26.132 | 0.019 | 1472. | 0.3 | |
| 14 | 14.0 | 5.920 | 33.189 | 6.75 | 0.14 | 26.132 | 0.022 | 1472. | 0.2 | |
| 16 | 16.0 | 5.919 | 33.190 | 6.76 | 0.14 | 26.132 | 0.026 | 1472. | -0.1 | |
| 18 | 18.0 | 5.919 | 33.190 | 6.76 | 0.14 | 26.132 | 0.030 | 1472. | -0.1 | |
| 20 | 20.0 | 5.919 | 33.189 | 6.76 | 0.14 | 26.132 | 0.034 | 1472. | -0.2 | |
| 22 | 22.0 | 5.921 | 33.189 | 6.76 | 0.14 | 26.132 | 0.037 | 1472. | -0.1 | |
| 24 | 24.0 | 5.920 | 33.189 | 6.76 | 0.14 | 26.132 | 0.041 | 1473. | -0.1 | |
| 26 | 26.0 | 5.919 | 33.189 | 6.75 | 0.14 | 26.132 | 0.045 | 1473. | 0.0 | |
| 28 | 28.0 | 5.920 | 33.189 | 6.76 | 0.14 | 26.132 | 0.049 | 1473. | 0.2 | |
| 30 | 30.0 | 5.920 | 33.189 | 6.76 | 0.14 | 26.132 | 0.052 | 1473. | 0.1 | |
| 32 | 32.0 | 5.925 | 33.190 | 6.76 | 0.14 | 26.132 | 0.056 | 1473. | -0.2 | |
| 34 | 34.0 | 5.921 | 33.189 | 6.77 | 0.14 | 26.132 | 0.060 | 1473. | -0.2 | |
| 36 | 36.0 | 5.922 | 33.189 | 6.77 | 0.14 | 26.132 | 0.064 | 1473. | -0.2 | |
| 38 | 38.0 | 5.927 | 33.190 | 6.77 | 0.14 | 26.132 | 0.067 | 1473. | -0.3 | |
| 40 | 40.1 | 5.925 | 33.189 | 6.77 | 0.14 | 26.131 | 0.071 | 1473. | -0.4 | |
| 42 | 42.0 | 5.936 | 33.192 | 6.77 | 0.14 | 26.132 | 0.075 | 1473. | -0.4 | |
| 44 | 44.0 | 5.942 | 33.192 | 6.77 | 0.14 | 26.132 | 0.079 | 1473. | -0.4 | |
| 46 | 46.0 | 5.939 | 33.191 | 6.77 | 0.13 | 26.131 | 0.082 | 1473. | -0.4 | |
| 48 | 48.0 | 5.936 | 33.191 | 6.78 | 0.14 | 26.131 | 0.086 | 1473. | -0.2 | |
| 50 | 50.0 | 5.934 | 33.191 | 6.78 | 0.14 | 26.131 | 0.090 | 1473. | -0.3 | |
| 52 | 51.9 | 5.933 | 33.190 | 6.77 | 0.14 | 26.131 | 0.094 | 1473. | 0.1 | |
| 54 | 54.0 | 5.933 | 33.190 | 6.78 | 0.14 | 26.131 | 0.097 | 1473. | 0.3 | |
| 55 | 55.9 | 5.942 | 33.192 | 6.78 | 0.14 | 26.132 | 0.101 | 1473. | 0.3 | |
| 57 | 57.9 | 5.943 | 33.192 | 6.79 | 0.14 | 26.131 | 0.105 | 1473. | -0.1 | |
| 59 | 59.9 | 5.946 | 33.192 | 6.79 | 0.13 | 26.131 | 0.109 | 1473. | -0.3 | |
| 61 | 62.0 | 5.945 | 33.192 | 6.79 | 0.13 | 26.131 | 0.112 | 1473. | -0.2 | |
| 64 | 64.0 | 5.944 | 33.192 | 6.80 | 0.14 | 26.131 | 0.116 | 1473. | -0.2 | |
| 65 | 66.0 | 5.940 | 33.190 | 6.80 | 0.14 | 26.130 | 0.120 | 1473. | 0.2 | |
| 68 | 68.1 | 5.933 | 33.189 | 6.80 | 0.14 | 26.130 | 0.124 | 1473. | 0.2 | |
| 69 | 70.0 | 5.941 | 33.192 | 6.80 | 0.14 | 26.131 | 0.127 | 1473. | 0.7 | |
| 71 | 72.0 | 5.941 | 33.191 | 6.80 | 0.14 | 26.131 | 0.131 | 1473. | 0.9 | |
| 73 | 74.0 | 5.939 | 33.191 | 6.80 | 0.14 | 26.131 | 0.135 | 1473. | 1.0 | |
| 75 | 76.0 | 5.940 | 33.191 | 6.80 | 0.13 | 26.131 | 0.139 | 1473. | 1.0 | |
| 77 | 78.0 | 5.971 | 33.201 | 6.79 | 0.13 | 26.135 | 0.142 | 1474. | 1.1 | |
| 79 | 79.9 | 5.990 | 33.203 | 6.78 | 0.13 | 26.134 | 0.146 | 1474. | 1.2 | |
| 81 | 82.0 | 5.998 | 33.205 | 6.77 | 0.13 | 26.135 | 0.150 | 1474. | 1.2 | |
| 83 | 84.0 | 6.005 | 33.207 | 6.77 | 0.12 | 26.136 | 0.154 | 1474. | 1.2 | |
| 85 | 86.0 | 6.020 | 33.212 | 6.77 | 0.12 | 26.138 | 0.158 | 1474. | 1.2 | |
| 87 | 88.0 | 6.033 | 33.215 | 6.76 | 0.12 | 26.138 | 0.161 | 1474. | 1.3 | |
| 89 | 90.0 | 6.044 | 33.217 | 6.76 | 0.12 | 26.139 | 0.165 | 1474. | 1.4 | |
| 91 | 92.0 | 6.052 | 33.220 | 6.76 | 0.11 | 26.140 | 0.169 | 1474. | 1.3 | |
| 93 | 94.0 | 6.057 | 33.223 | 6.76 | 0.11 | 26.142 | 0.172 | 1474. | 1.2 | |
| 95 | 95.9 | 6.063 | 33.225 | 6.75 | 0.11 | 26.143 | 0.176 | 1474. | 1.1 | |
| 97 | 98.0 | 6.072 | 33.229 | 6.74 | 0.11 | 26.144 | 0.180 | 1474. | 0.9 | |
| 99 | 100.0 | 6.096 | 33.232 | 6.74 | 0.11 | 26.144 | 0.184 | 1475. | 0.7 | |

| SHIP OC | CRUISE 181 | STATION 29 | DATE 07 FEB 1987 | | EST 0110 | LATITUDE 42°18.1'N | LONGITUDE 69°46.8'W | DEPTH 247 | | |
|------------|---------------|---------------|---------------------|-------------|------------------------|----------------------------|--|--------------|----------|--|
| DEPTH m | PRESS dbar | TEMP °C | SALIN psu | OXY ml/l | ATN m ⁻¹ | SIGT gm/cm ³ | DYHT A 10m ² /s ² | S SPD m/s | N cph | |
| 101 | 102.0 | 6.097 | 33.232 | 6.73 | 0.11 | 26.144 | 0.187 | 1475. | 0.2 | |
| 103 | 103.9 | 6.093 | 33.231 | 6.74 | 0.11 | 26.144 | 0.191 | 1475. | -0.4 | |
| 105 | 106.0 | 6.089 | 33.230 | 6.74 | 0.11 | 26.143 | 0.195 | 1475. | -0.5 | |
| 107 | 108.0 | 6.096 | 33.232 | 6.74 | 0.11 | 26.144 | 0.199 | 1475. | -0.3 | |
| 109 | 110.0 | 6.086 | 33.228 | 6.75 | 0.11 | 26.142 | 0.202 | 1475. | 0.5 | |
| 111 | 111.9 | 6.089 | 33.230 | 6.74 | 0.11 | 26.143 | 0.206 | 1475. | 0.8 | |
| 113 | 114.0 | 6.107 | 33.233 | 6.74 | 0.11 | 26.143 | 0.210 | 1475. | 1.0 | |
| 115 | 115.9 | 6.112 | 33.235 | 6.74 | 0.10 | 26.144 | 0.214 | 1475. | 1.0 | |
| 117 | 118.0 | 6.127 | 33.239 | 6.73 | 0.10 | 26.146 | 0.217 | 1475. | 1.0 | |
| 119 | 120.0 | 6.177 | 33.250 | 6.71 | 0.09 | 26.148 | 0.221 | 1475. | 0.8 | |
| 121 | 122.0 | 6.188 | 33.250 | 6.70 | 0.09 | 26.147 | 0.225 | 1475. | 0.8 | |
| 123 | 124.1 | 6.188 | 33.250 | 6.70 | 0.09 | 26.147 | 0.229 | 1475. | 0.7 | |
| 125 | 125.9 | 6.163 | 33.245 | 6.71 | 0.10 | 26.146 | 0.232 | 1475. | 0.6 | |
| 127 | 128.0 | 6.133 | 33.241 | 6.73 | 0.10 | 26.146 | 0.236 | 1475. | 0.6 | |
| 129 | 130.0 | 6.108 | 33.238 | 6.74 | 0.10 | 26.147 | 0.240 | 1475. | 0.8 | |
| 131 | 132.0 | 6.109 | 33.240 | 6.74 | 0.10 | 26.148 | 0.244 | 1475. | 0.9 | |
| 133 | 134.0 | 6.111 | 33.240 | 6.74 | 0.10 | 26.148 | 0.247 | 1475. | 0.9 | |
| 135 | 136.0 | 6.100 | 33.239 | 6.75 | 0.11 | 26.149 | 0.251 | 1475. | 0.8 | |
| 137 | 138.1 | 6.094 | 33.238 | 6.76 | 0.11 | 26.149 | 0.255 | 1475. | 0.7 | |
| 139 | 140.0 | 6.095 | 33.239 | 6.75 | 0.11 | 26.150 | 0.259 | 1475. | 0.7 | |
| 141 | 142.0 | 6.095 | 33.239 | 6.75 | 0.11 | 26.149 | 0.262 | 1475. | 0.7 | |
| 143 | 144.0 | 6.098 | 33.240 | 6.75 | 0.11 | 26.150 | 0.266 | 1475. | 0.7 | |
| 145 | 146.0 | 6.090 | 33.238 | 6.76 | 0.11 | 26.150 | 0.270 | 1475. | 0.8 | |
| 147 | 147.9 | 6.079 | 33.238 | 6.76 | 0.11 | 26.151 | 0.274 | 1475. | 0.9 | |
| 149 | 150.0 | 6.074 | 33.237 | 6.77 | 0.11 | 26.151 | 0.277 | 1475. | 0.9 | |
| 151 | 152.0 | 6.049 | 33.233 | 6.79 | 0.11 | 26.151 | 0.281 | 1475. | 0.9 | |
| 153 | 154.0 | 6.044 | 33.234 | 6.78 | 0.11 | 26.152 | 0.285 | 1475. | 0.9 | |
| 155 | 156.0 | 6.055 | 33.238 | 6.78 | 0.11 | 26.154 | 0.289 | 1475. | 0.8 | |
| 157 | 158.0 | 6.058 | 33.237 | 6.78 | 0.11 | 26.153 | 0.292 | 1475. | 0.8 | |
| 159 | 160.0 | 6.053 | 33.237 | 6.79 | 0.11 | 26.153 | 0.296 | 1475. | 0.6 | |
| 161 | 162.0 | 6.057 | 33.238 | 6.78 | 0.11 | 26.153 | 0.300 | 1475. | 0.3 | |
| 163 | 164.1 | 6.061 | 33.239 | 6.78 | 0.11 | 26.153 | 0.304 | 1475. | -0.2 | |
| 165 | 166.0 | 6.065 | 33.239 | 6.78 | 0.11 | 26.153 | 0.307 | 1475. | 0.1 | |
| 167 | 168.0 | 6.066 | 33.239 | 6.77 | 0.11 | 26.153 | 0.311 | 1476. | 0.2 | |
| 169 | 170.0 | 6.066 | 33.239 | 6.77 | 0.11 | 26.153 | 0.315 | 1476. | 0.5 | |
| 171 | 171.9 | 6.065 | 33.239 | 6.78 | 0.11 | 26.153 | 0.318 | 1476. | 0.7 | |
| 173 | 174.0 | 6.064 | 33.238 | 6.77 | 0.11 | 26.153 | 0.322 | 1476. | 1.2 | |
| 175 | 176.0 | 6.054 | 33.238 | 6.75 | 0.11 | 26.154 | 0.326 | 1476. | 2.3 | |
| 177 | 178.0 | 6.056 | 33.240 | 6.71 | 0.11 | 26.156 | 0.330 | 1476. | 3.2 | |
| 178 | 180.0 | 6.063 | 33.242 | 6.67 | 0.11 | 26.156 | 0.333 | 1476. | 3.8 | |
| 181 | 182.0 | 6.081 | 33.252 | 6.63 | 0.11 | 26.162 | 0.337 | 1476. | 4.6 | |
| 182 | 184.0 | 6.253 | 33.321 | 6.54 | 0.11 | 26.194 | 0.361 | 1477. | 5.5 | |
| 184 | 186.0 | 6.395 | 33.370 | 6.42 | 0.11 | 26.215 | 0.345 | 1477. | 6.3 | |
| 186 | 188.0 | 6.471 | 33.398 | 6.32 | 0.11 | 26.227 | 0.348 | 1478. | 6.8 | |
| 188 | 189.9 | 6.577 | 33.463 | 6.21 | 0.12 | 26.265 | 0.352 | 1478. | 6.9 | |
| 190 | 192.0 | 6.693 | 33.547 | 5.78 | 0.18 | 26.315 | 0.355 | 1479. | 6.8 | |
| 192 | 194.0 | 6.747 | 33.615 | 5.64 | 0.20 | 26.362 | 0.359 | 1479. | 6.7 | |
| 194 | 196.0 | 6.764 | 33.644 | 5.54 | 0.20 | 26.383 | 0.362 | 1479. | 6.4 | |
| 196 | 198.0 | 6.767 | 33.647 | 5.49 | 0.20 | 26.384 | 0.365 | 1479. | 5.7 | |
| 198 | 199.9 | 6.766 | 33.678 | 5.46 | 0.22 | 26.409 | 0.369 | 1479. | 4.9 | |

| SHIP OC | CRUISE 181 | STATION 29 | DATE 07 FEB 1987 | | EST 0110 | LATITUDE 42°18.1'N | LONGITUDE 69°46.8'W | DEPTH 247 | | |
|------------|---------------|---------------|---------------------|-------------|------------------------|----------------------------|--|--------------|----------|--|
| DEPTH m | PRESS dbar | TEMP °C | SALIN psu | OXY ml/l | ATN m ⁻¹ | SIGT gm/cm ³ | DYHT A 10m ² /s ² | S SPD m/s | N cph | |
| 200 | 202.0 | 6.750 | 33.710 | 5.46 | 0.25 | 26.437 | 0.372 | 1479. | 4.2 | |
| 202 | 204.0 | 6.747 | 33.711 | 5.46 | 0.27 | 26.438 | 0.375 | 1479. | 4.0 | |
| 204 | 206.1 | 6.744 | 33.712 | 5.47 | 0.27 | 26.439 | 0.378 | 1479. | 3.9 | |
| 206 | 208.0 | 6.741 | 33.715 | 5.49 | 0.27 | 26.442 | 0.381 | 1479. | 3.8 | |
| 208 | 210.0 | 6.731 | 33.725 | 5.39 | 0.20 | 26.451 | 0.385 | 1479. | 3.8 | |
| 210 | 212.0 | 6.724 | 33.742 | 5.23 | 0.18 | 26.465 | 0.388 | 1479. | 4.1 | |
| 212 | 213.9 | 6.728 | 33.759 | 5.13 | 0.18 | 26.478 | 0.391 | 1480. | 4.4 | |
| 214 | 216.0 | 6.735 | 33.782 | 5.12 | 0.18 | 26.495 | 0.394 | 1480. | 4.5 | |
| 216 | 218.0 | 6.734 | 33.791 | 5.12 | 0.17 | 26.502 | 0.397 | 1480. | 4.4 | |
| 218 | 220.0 | 6.744 | 33.810 | 5.12 | 0.19 | 26.516 | 0.400 | 1480. | 4.3 | |
| 220 | 222.0 | 6.762 | 33.836 | 5.13 | 0.22 | 26.534 | 0.403 | 1480. | 4.0 | |
| 222 | 223.9 | 6.771 | 33.847 | 5.14 | 0.27 | 26.542 | 0.406 | 1480. | 3.8 | |
| 224 | 225.9 | 6.778 | 33.855 | 5.15 | 0.35 | 26.547 | 0.409 | 1480. | 3.5 | |
| 226 | 228.0 | 6.788 | 33.868 | 5.16 | 0.47 | 26.556 | 0.413 | 1480. | 3.1 | |
| 228 | 230.0 | 6.791 | 33.873 | 5.15 | 0.52 | 26.559 | 0.415 | 1480. | 2.7 | |
| 229 | 231.2 | 6.793 | 33.874 | 5.14 | 0.54 | 26.560 | 0.417 | 1480. | 2.3 | |
| 230 | 232.0 | 6.793 | 33.874 | 5.15 | 0.54 | 26.560 | 0.419 | 1480. | 1.9 | |
| 231 | 233.0 | 6.793 | 33.875 | 5.14 | 0.55 | 26.560 | 0.420 | 1480. | 1.3 | |
| 232 | 233.9 | 6.794 | 33.876 | 5.14 | 0.56 | 26.561 | 0.421 | 1480. | 1.0 | |
| 233 | 235.0 | 6.795 | 33.876 | 5.13 | 0.57 | 26.562 | 0.423 | 1480. | 0.9 | |
| 234 | 236.0 | 6.795 | 33.876 | 5.13 | 0.57 | 26.562 | 0.425 | 1480. | 0.7 | |
| 235 | 237.0 | 6.796 | 33.877 | 5.10 | 0.58 | 26.562 | 0.426 | 1480. | 0.7 | |
| 236 | 238.0 | 6.796 | 33.876 | 5.10 | 0.59 | 26.562 | 0.428 | 1480. | 0.7 | |
| 237 | 238.9 | 6.796 | 33.876 | 5.11 | 0.59 | 26.562 | 0.429 | 1480. | 0.7 | |
| 238 | 239.8 | 6.795 | 33.876 | 5.11 | 0.60 | 26.562 | 0.430 | 1480. | 0.7 | |

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| SHIP OC | CRUISE 181 | STATION 30 | DATE 07 FEB 1987 | | EST 0223 | LATITUDE 42°12.1'N | LONGITUDE 69°53.8'W | DEPTH 169 | | |
|---------|------------|------------|------------------|----------|---------------------|-------------------------|---|-----------|-------|--|
| DEPTH m | PRESS dbar | TEMP °C | SALIN psu | OXY ml/l | ATN m ⁻¹ | SIGT gm/cm ³ | DYHT A 10m ² /s ² | S SPD m/s | N cph | |
| 3 | 2.6 | 5.409 | 33.049 | 6.87 | 0.26 | 26.082 | 0.000 | 1470. | 0.2 | |
| 4 | 4.0 | 5.409 | 33.047 | 6.88 | 0.26 | 26.081 | 0.003 | 1470. | 0.2 | |
| 6 | 6.0 | 5.416 | 33.050 | 6.91 | 0.26 | 26.082 | 0.007 | 1470. | 0.2 | |
| 8 | 8.0 | 5.497 | 33.070 | 6.89 | 0.27 | 26.089 | 0.010 | 1470. | 0.2 | |
| 10 | 10.0 | 5.441 | 33.052 | 6.94 | 0.26 | 26.081 | 0.014 | 1470. | 0.2 | |
| 12 | 12.1 | 5.491 | 33.066 | 6.93 | 0.27 | 26.086 | 0.018 | 1470. | -0.2 | |
| 14 | 14.0 | 5.500 | 33.062 | 6.93 | 0.27 | 26.082 | 0.022 | 1471. | -0.6 | |
| 16 | 16.0 | 5.497 | 33.061 | 6.92 | 0.27 | 26.082 | 0.026 | 1471. | -0.9 | |
| 18 | 18.0 | 5.497 | 33.062 | 6.92 | 0.27 | 26.082 | 0.029 | 1471. | -0.4 | |
| 20 | 20.0 | 5.513 | 33.066 | 6.91 | 0.27 | 26.083 | 0.033 | 1471. | -0.6 | |
| 22 | 22.0 | 5.525 | 33.067 | 6.90 | 0.27 | 26.083 | 0.037 | 1471. | 1.0 | |
| 24 | 24.1 | 5.509 | 33.063 | 6.91 | 0.27 | 26.081 | 0.041 | 1471. | 1.3 | |
| 26 | 25.9 | 5.511 | 33.064 | 6.91 | 0.27 | 26.082 | 0.045 | 1471. | 1.5 | |
| 28 | 28.0 | 5.554 | 33.072 | 6.90 | 0.26 | 26.083 | 0.049 | 1471. | 1.5 | |
| 30 | 30.0 | 5.650 | 33.096 | 6.87 | 0.26 | 26.091 | 0.052 | 1471. | 1.6 | |
| 32 | 32.0 | 5.664 | 33.099 | 6.87 | 0.26 | 26.091 | 0.056 | 1472. | 1.5 | |
| 34 | 33.9 | 5.671 | 33.100 | 6.87 | 0.26 | 26.091 | 0.060 | 1472. | 1.4 | |
| 36 | 36.0 | 5.674 | 33.100 | 6.87 | 0.26 | 26.091 | 0.064 | 1472. | 1.1 | |
| 38 | 38.0 | 5.680 | 33.102 | 6.87 | 0.26 | 26.092 | 0.068 | 1472. | 0.7 | |
| 40 | 40.0 | 5.685 | 33.103 | 6.86 | 0.26 | 26.092 | 0.072 | 1472. | 0.8 | |
| 42 | 42.0 | 5.686 | 33.103 | 6.87 | 0.26 | 26.092 | 0.075 | 1472. | 0.9 | |
| 44 | 44.0 | 5.691 | 33.104 | 6.87 | 0.26 | 26.092 | 0.079 | 1472. | 0.9 | |
| 46 | 45.9 | 5.701 | 33.107 | 6.87 | 0.26 | 26.094 | 0.083 | 1472. | 0.9 | |
| 48 | 48.0 | 5.720 | 33.112 | 6.87 | 0.26 | 26.095 | 0.087 | 1472. | 0.9 | |
| 50 | 50.0 | 5.731 | 33.114 | 6.86 | 0.26 | 26.096 | 0.091 | 1472. | 0.9 | |
| 52 | 52.0 | 5.732 | 33.114 | 6.86 | 0.26 | 26.095 | 0.095 | 1472. | 0.8 | |
| 54 | 54.0 | 5.732 | 33.114 | 6.86 | 0.26 | 26.096 | 0.098 | 1472. | 0.7 | |
| 56 | 56.1 | 5.735 | 33.115 | 6.86 | 0.26 | 26.096 | 0.102 | 1472. | 0.5 | |
| 58 | 58.0 | 5.739 | 33.116 | 6.86 | 0.26 | 26.096 | 0.106 | 1472. | 0.5 | |
| 60 | 60.0 | 5.742 | 33.117 | 6.85 | 0.26 | 26.096 | 0.110 | 1472. | 0.6 | |
| 62 | 62.0 | 5.744 | 33.117 | 6.86 | 0.26 | 26.097 | 0.114 | 1472. | 0.6 | |
| 63 | 64.0 | 5.744 | 33.117 | 6.86 | 0.26 | 26.096 | 0.118 | 1472. | 0.6 | |
| 65 | 65.9 | 5.741 | 33.117 | 6.86 | 0.26 | 26.096 | 0.121 | 1472. | 0.7 | |
| 67 | 67.9 | 5.735 | 33.117 | 6.87 | 0.25 | 26.097 | 0.125 | 1472. | 0.7 | |
| 69 | 70.0 | 5.730 | 33.117 | 6.88 | 0.25 | 26.098 | 0.129 | 1472. | 0.7 | |
| 71 | 71.9 | 5.729 | 33.117 | 6.88 | 0.25 | 26.098 | 0.133 | 1472. | 0.7 | |
| 73 | 74.1 | 5.732 | 33.118 | 6.88 | 0.25 | 26.098 | 0.137 | 1473. | 0.7 | |
| 75 | 75.9 | 5.729 | 33.117 | 6.89 | 0.25 | 26.098 | 0.140 | 1473. | 0.6 | |
| 77 | 78.1 | 5.724 | 33.116 | 6.89 | 0.25 | 26.098 | 0.144 | 1473. | 0.6 | |
| 79 | 80.0 | 5.723 | 33.117 | 6.89 | 0.25 | 26.099 | 0.148 | 1473. | 0.6 | |
| 81 | 81.9 | 5.723 | 33.117 | 6.89 | 0.25 | 26.099 | 0.152 | 1473. | 0.6 | |
| 83 | 84.0 | 5.725 | 33.117 | 6.89 | 0.25 | 26.099 | 0.156 | 1473. | 0.7 | |
| 85 | 86.0 | 5.728 | 33.119 | 6.89 | 0.25 | 26.100 | 0.160 | 1473. | 0.6 | |
| 87 | 87.9 | 5.729 | 33.119 | 6.89 | 0.25 | 26.099 | 0.163 | 1473. | 0.6 | |
| 89 | 90.1 | 5.732 | 33.120 | 6.90 | 0.25 | 26.100 | 0.167 | 1473. | 0.8 | |
| 91 | 92.0 | 5.734 | 33.120 | 6.90 | 0.25 | 26.100 | 0.171 | 1473. | 0.8 | |
| 93 | 94.0 | 5.736 | 33.120 | 6.90 | 0.25 | 26.100 | 0.175 | 1473. | 0.9 | |
| 95 | 95.9 | 5.738 | 33.122 | 6.90 | 0.25 | 26.101 | 0.179 | 1473. | 0.9 | |
| 97 | 98.0 | 5.746 | 33.125 | 6.90 | 0.25 | 26.102 | 0.183 | 1473. | 1.0 | |
| 99 | 100.0 | 5.752 | 33.126 | 6.90 | 0.24 | 26.102 | 0.186 | 1473. | 1.0 | |

| SHIP OC | CRUISE 181 | STATION 30 | DATE 07 FEB 1987 | | EST 0223 | LATITUDE 42°12.1'N | LONGITUDE 69°53.8'W | DEPTH 169 | | |
|---------|------------|------------|------------------|----------|---------------------|-------------------------|---|-----------|-------|--|
| DEPTH m | PRESS dbar | TEMP °C | SALIN psu | OXY ml/l | ATN m ⁻¹ | SIGT gm/cm ³ | DYHT A 10m ² /s ² | S SPD m/s | N cph | |
| 101 | 102.0 | 5.758 | 33.128 | 6.89 | 0.24 | 26.103 | 0.190 | 1473. | 0.9 | |
| 103 | 104.0 | 5.762 | 33.129 | 6.89 | 0.24 | 26.103 | 0.194 | 1473. | 0.8 | |
| 105 | 106.0 | 5.770 | 33.130 | 6.88 | 0.24 | 26.104 | 0.198 | 1473. | 0.7 | |
| 107 | 108.0 | 5.775 | 33.132 | 6.89 | 0.24 | 26.104 | 0.202 | 1473. | 0.6 | |
| 109 | 110.0 | 5.776 | 33.132 | 6.88 | 0.24 | 26.104 | 0.206 | 1473. | 0.6 | |
| 111 | 112.0 | 5.776 | 33.132 | 6.89 | 0.24 | 26.104 | 0.209 | 1473. | 0.6 | |
| 113 | 114.0 | 5.777 | 33.132 | 6.88 | 0.24 | 26.104 | 0.213 | 1473. | 0.7 | |
| 115 | 116.1 | 5.778 | 33.132 | 6.88 | 0.24 | 26.104 | 0.217 | 1473. | 0.7 | |
| 117 | 118.0 | 5.780 | 33.133 | 6.88 | 0.24 | 26.105 | 0.221 | 1473. | 0.8 | |
| 119 | 120.0 | 5.786 | 33.135 | 6.87 | 0.24 | 26.106 | 0.225 | 1473. | 0.9 | |
| 121 | 122.0 | 5.794 | 33.137 | 6.87 | 0.24 | 26.106 | 0.228 | 1474. | 0.8 | |
| 123 | 124.1 | 5.798 | 33.139 | 6.87 | 0.23 | 26.107 | 0.232 | 1474. | 0.8 | |
| 125 | 126.0 | 5.807 | 33.141 | 6.86 | 0.24 | 26.108 | 0.236 | 1474. | 0.7 | |
| 127 | 128.0 | 5.814 | 33.142 | 6.85 | 0.23 | 26.108 | 0.240 | 1474. | 0.7 | |
| 129 | 130.1 | 5.810 | 33.140 | 6.86 | 0.23 | 26.107 | 0.244 | 1474. | 0.6 | |
| 131 | 132.0 | 5.819 | 33.143 | 6.86 | 0.23 | 26.108 | 0.247 | 1474. | 0.5 | |
| 133 | 134.0 | 5.821 | 33.143 | 6.86 | 0.23 | 26.108 | 0.251 | 1474. | 0.6 | |
| 135 | 136.1 | 5.821 | 33.144 | 6.86 | 0.23 | 26.109 | 0.255 | 1474. | 0.7 | |
| 137 | 138.0 | 5.819 | 33.143 | 6.87 | 0.23 | 26.108 | 0.259 | 1474. | 0.7 | |
| 139 | 140.0 | 5.815 | 33.143 | 6.88 | 0.23 | 26.109 | 0.263 | 1474. | 0.6 | |
| 141 | 142.0 | 5.820 | 33.145 | 6.88 | 0.23 | 26.109 | 0.267 | 1474. | 0.6 | |
| 143 | 143.9 | 5.824 | 33.146 | 6.87 | 0.23 | 26.109 | 0.270 | 1474. | 0.6 | |
| 145 | 146.0 | 5.828 | 33.146 | 6.88 | 0.24 | 26.109 | 0.274 | 1474. | 0.6 | |
| 147 | 148.0 | 5.832 | 33.147 | 6.87 | 0.24 | 26.109 | 0.278 | 1474. | 0.4 | |
| 149 | 149.9 | 5.837 | 33.148 | 6.87 | 0.25 | 26.110 | 0.282 | 1474. | 0.3 | |
| 151 | 151.9 | 5.839 | 33.149 | 6.86 | 0.26 | 26.110 | 0.286 | 1474. | 0.2 | |
| 152 | 153.3 | 5.838 | 33.148 | 6.87 | 0.27 | 26.109 | 0.288 | 1474. | 0.1 | |
| 153 | 153.9 | 5.838 | 33.148 | 6.87 | 0.27 | 26.110 | 0.289 | 1474. | 0.3 | |
| 154 | 155.0 | 5.839 | 33.148 | 6.86 | 0.27 | 26.110 | 0.291 | 1474. | 0.7 | |
| 155 | 156.0 | 5.839 | 33.148 | 6.86 | 0.28 | 26.109 | 0.293 | 1474. | 1.2 | |
| 156 | 157.0 | 5.839 | 33.149 | 6.86 | 0.29 | 26.110 | 0.295 | 1474. | 1.5 | |
| 157 | 158.0 | 5.839 | 33.149 | 6.86 | 0.31 | 26.110 | 0.297 | 1474. | 1.6 | |
| 158 | 159.1 | 5.849 | 33.153 | 6.84 | 0.40 | 26.112 | 0.299 | 1474. | 1.6 | |
| 159 | 160.0 | 5.868 | 33.158 | 6.83 | 0.44 | 26.114 | 0.301 | 1475. | 1.6 | |
| 160 | 160.9 | 5.872 | 33.160 | 6.82 | 0.47 | 26.115 | 0.303 | 1475. | 1.6 | |
| 161 | 161.8 | 5.876 | 33.161 | 6.82 | 0.49 | 26.115 | 0.304 | 1475. | 1.6 | |

| SHIP OC | CRUISE 181 | STATION 31 | DATE 07 FEB 1987 | EST 0312 | LATITUDE 42°09.2'N | LONGITUDE 69°57.4'W | DEPTH 139 | | | | | |
|---------|------------|------------|------------------|----------|---------------------|-------------------------|---|-----------|-------|--|--|--|
| DEPTH m | PRESS dbar | TEMP °C | SALIN psu | OXY ml/l | ATN m ⁻¹ | SIGT gm/cm ³ | DYHT A 10m ² /s ² | S SPD m/s | N cph | | | |
| 2 | 2.4 | 5.184 | 32.994 | 7.02 | 0.28 | 26.064 | 0.000 | 1469. | -0.5 | | | |
| 4 | 4.0 | 5.183 | 32.994 | 7.03 | 0.28 | 26.064 | 0.003 | 1469. | -0.5 | | | |
| 6 | 6.0 | 5.180 | 32.993 | 7.05 | 0.28 | 26.064 | 0.007 | 1469. | -0.5 | | | |
| 8 | 7.9 | 5.179 | 32.994 | 7.06 | 0.28 | 26.065 | 0.011 | 1469. | -0.5 | | | |
| 10 | 10.0 | 5.180 | 32.993 | 7.07 | 0.28 | 26.064 | 0.015 | 1469. | -0.5 | | | |
| 12 | 12.1 | 5.183 | 32.993 | 7.07 | 0.28 | 26.064 | 0.019 | 1469. | -0.6 | | | |
| 14 | 14.0 | 5.183 | 32.993 | 7.08 | 0.28 | 26.064 | 0.022 | 1469. | -0.7 | | | |
| 16 | 16.0 | 5.187 | 32.993 | 7.08 | 0.28 | 26.064 | 0.026 | 1469. | -0.7 | | | |
| 18 | 18.0 | 5.196 | 32.993 | 7.08 | 0.28 | 26.063 | 0.030 | 1469. | -0.7 | | | |
| 20 | 20.1 | 5.196 | 32.993 | 7.07 | 0.28 | 26.063 | 0.034 | 1469. | -0.7 | | | |
| 22 | 22.0 | 5.198 | 32.993 | 7.09 | 0.28 | 26.062 | 0.038 | 1469. | -0.6 | | | |
| 24 | 24.0 | 5.200 | 32.993 | 7.09 | 0.28 | 26.062 | 0.042 | 1469. | -0.5 | | | |
| 26 | 26.0 | 5.198 | 32.993 | 7.10 | 0.28 | 26.062 | 0.046 | 1469. | -0.2 | | | |
| 28 | 28.0 | 5.195 | 32.992 | 7.11 | 0.28 | 26.062 | 0.050 | 1469. | -0.2 | | | |
| 30 | 30.1 | 5.195 | 32.992 | 7.10 | 0.28 | 26.062 | 0.054 | 1469. | 0.3 | | | |
| 32 | 32.0 | 5.196 | 32.993 | 7.10 | 0.28 | 26.062 | 0.057 | 1469. | 0.5 | | | |
| 34 | 33.9 | 5.198 | 32.993 | 7.10 | 0.28 | 26.062 | 0.061 | 1470. | 0.6 | | | |
| 36 | 36.1 | 5.208 | 32.994 | 7.09 | 0.28 | 26.062 | 0.065 | 1470. | 0.6 | | | |
| 38 | 38.0 | 5.220 | 32.997 | 7.09 | 0.28 | 26.063 | 0.069 | 1470. | 0.6 | | | |
| 40 | 40.0 | 5.222 | 32.998 | 7.09 | 0.28 | 26.063 | 0.073 | 1470. | 0.6 | | | |
| 42 | 41.9 | 5.224 | 32.999 | 7.09 | 0.27 | 26.064 | 0.077 | 1470. | 0.5 | | | |
| 44 | 44.0 | 5.224 | 32.999 | 7.09 | 0.27 | 26.064 | 0.081 | 1470. | 0.5 | | | |
| 46 | 46.0 | 5.223 | 32.998 | 7.09 | 0.27 | 26.063 | 0.084 | 1470. | 0.4 | | | |
| 48 | 48.0 | 5.222 | 32.998 | 7.09 | 0.27 | 26.063 | 0.088 | 1470. | 0.4 | | | |
| 50 | 49.9 | 5.223 | 32.999 | 7.08 | 0.27 | 26.064 | 0.092 | 1470. | 0.4 | | | |
| 52 | 51.9 | 5.230 | 33.000 | 7.09 | 0.27 | 26.064 | 0.096 | 1470. | 0.4 | | | |
| 54 | 54.0 | 5.231 | 33.000 | 7.09 | 0.27 | 26.064 | 0.100 | 1470. | 0.4 | | | |
| 56 | 56.0 | 5.235 | 33.001 | 7.09 | 0.27 | 26.064 | 0.104 | 1470. | 0.4 | | | |
| 57 | 57.9 | 5.235 | 33.001 | 7.10 | 0.27 | 26.064 | 0.108 | 1470. | 0.3 | | | |
| 59 | 59.9 | 5.240 | 33.002 | 7.10 | 0.27 | 26.064 | 0.111 | 1470. | 0.3 | | | |
| 62 | 62.0 | 5.242 | 33.002 | 7.10 | 0.27 | 26.064 | 0.116 | 1470. | 0.3 | | | |
| 63 | 64.0 | 5.240 | 33.001 | 7.10 | 0.27 | 26.064 | 0.119 | 1470. | 0.3 | | | |
| 65 | 65.9 | 5.240 | 33.002 | 7.10 | 0.27 | 26.064 | 0.123 | 1470. | 0.4 | | | |
| 68 | 68.1 | 5.244 | 33.002 | 7.10 | 0.27 | 26.064 | 0.127 | 1470. | 0.6 | | | |
| 69 | 70.0 | 5.243 | 33.002 | 7.10 | 0.27 | 26.064 | 0.131 | 1470. | 0.7 | | | |
| 71 | 72.0 | 5.245 | 33.003 | 7.10 | 0.27 | 26.064 | 0.135 | 1470. | 0.7 | | | |
| 73 | 74.0 | 5.246 | 33.004 | 7.10 | 0.27 | 26.065 | 0.139 | 1470. | 0.6 | | | |
| 76 | 76.2 | 5.256 | 33.006 | 7.10 | 0.28 | 26.066 | 0.143 | 1470. | 0.8 | | | |
| 77 | 78.0 | 5.264 | 33.007 | 7.10 | 0.28 | 26.066 | 0.147 | 1471. | 0.9 | | | |
| 79 | 80.0 | 5.267 | 33.008 | 7.10 | 0.27 | 26.066 | 0.151 | 1471. | 1.0 | | | |
| 81 | 82.0 | 5.269 | 33.007 | 7.10 | 0.27 | 26.065 | 0.154 | 1471. | 1.1 | | | |
| 83 | 84.1 | 5.289 | 33.013 | 7.09 | 0.28 | 26.068 | 0.158 | 1471. | 1.2 | | | |
| 85 | 86.0 | 5.327 | 33.022 | 7.07 | 0.27 | 26.070 | 0.162 | 1471. | 1.3 | | | |
| 87 | 88.0 | 5.334 | 33.022 | 7.07 | 0.27 | 26.069 | 0.166 | 1471. | 1.3 | | | |
| 89 | 90.1 | 5.347 | 33.026 | 7.06 | 0.27 | 26.071 | 0.170 | 1471. | 1.3 | | | |
| 91 | 92.0 | 5.365 | 33.030 | 7.05 | 0.27 | 26.072 | 0.174 | 1471. | 1.2 | | | |
| 93 | 94.1 | 5.387 | 33.035 | 7.05 | 0.27 | 26.073 | 0.178 | 1471. | 1.1 | | | |
| 95 | 95.9 | 5.399 | 33.037 | 7.05 | 0.27 | 26.074 | 0.181 | 1471. | 1.0 | | | |
| 97 | 97.8 | 5.412 | 33.040 | 7.04 | 0.27 | 26.075 | 0.185 | 1472. | 0.8 | | | |
| 99 | 100.0 | 5.420 | 33.042 | 7.03 | 0.28 | 26.075 | 0.189 | 1472. | 0.6 | | | |

| SHIP OC | CRUISE 181 | STATION 31 | DATE 07 FEB 1987 | EST 0312 | LATITUDE 42°09.2'N | LONGITUDE 69°57.4'W | DEPTH 139 | | | | | |
|---------|------------|------------|------------------|----------|---------------------|-------------------------|---|-----------|-------|--|--|--|
| DEPTH m | PRESS dbar | TEMP °C | SALIN psu | OXY ml/l | ATN m ⁻¹ | SIGT gm/cm ³ | DYHT A 10m ² /s ² | S SPD m/s | N cph | | | |
| 101 | 101.9 | 5.422 | 33.042 | 7.03 | 0.28 | 26.075 | 0.193 | 1472. | 0.5 | | | |
| 103 | 104.1 | 5.421 | 33.041 | 7.04 | 0.27 | 26.074 | 0.197 | 1472. | 0.4 | | | |
| 105 | 106.0 | 5.420 | 33.041 | 7.04 | 0.27 | 26.074 | 0.201 | 1472. | 0.3 | | | |
| 107 | 108.1 | 5.423 | 33.042 | 7.04 | 0.28 | 26.075 | 0.205 | 1472. | 0.3 | | | |
| 109 | 110.1 | 5.427 | 33.043 | 7.04 | 0.28 | 26.075 | 0.209 | 1472. | 0.4 | | | |
| 111 | 112.0 | 5.427 | 33.043 | 7.04 | 0.28 | 26.075 | 0.213 | 1472. | 0.4 | | | |
| 113 | 114.0 | 5.428 | 33.043 | 7.03 | 0.28 | 26.075 | 0.216 | 1472. | 0.3 | | | |
| 115 | 116.0 | 5.428 | 33.043 | 7.04 | 0.28 | 26.075 | 0.220 | 1472. | -0.1 | | | |
| 117 | 118.0 | 5.428 | 33.043 | 7.04 | 0.28 | 26.075 | 0.224 | 1472. | -0.1 | | | |
| 119 | 120.0 | 5.427 | 33.042 | 7.04 | 0.28 | 26.075 | 0.228 | 1472. | -0.2 | | | |
| 121 | 122.0 | 5.428 | 33.043 | 7.04 | 0.28 | 26.075 | 0.232 | 1472. | -0.1 | | | |
| 123 | 124.0 | 5.429 | 33.043 | 7.04 | 0.28 | 26.075 | 0.236 | 1472. | 0.2 | | | |
| 124 | 125.3 | 5.430 | 33.043 | 7.04 | 0.28 | 26.075 | 0.238 | 1472. | 0.3 | | | |
| 125 | 126.0 | 5.431 | 33.043 | 7.04 | 0.28 | 26.075 | 0.240 | 1472. | 0.3 | | | |
| 126 | 127.0 | 5.431 | 33.043 | 7.04 | 0.28 | 26.075 | 0.242 | 1472. | 0.3 | | | |
| 127 | 128.0 | 5.431 | 33.044 | 7.03 | 0.28 | 26.075 | 0.244 | 1472. | 0.4 | | | |
| 128 | 129.0 | 5.432 | 33.043 | 7.03 | 0.28 | 26.075 | 0.245 | 1472. | 0.4 | | | |
| 129 | 130.0 | 5.433 | 33.044 | 7.03 | 0.28 | 26.075 | 0.247 | 1472. | 0.2 | | | |
| 130 | 131.1 | 5.433 | 33.044 | 7.03 | 0.28 | 26.075 | 0.249 | 1472. | 0.2 | | | |
| 131 | 132.0 | 5.433 | 33.044 | 7.03 | 0.28 | 26.075 | 0.251 | 1472. | 0.2 | | | |
| 132 | 133.0 | 5.433 | 33.044 | 7.04 | 0.28 | 26.075 | 0.253 | 1472. | 0.2 | | | |
| 133 | 133.9 | 5.433 | 33.043 | 7.03 | 0.28 | 26.075 | 0.255 | 1472. | 0.2 | | | |

| SHIP OC | CRUISE 181 | STATION 32 | DATE 07 FEB 1987 | | EST 0358 | LATITUDE 42°06.0'N | LONGITUDE 70°01.4'W | DEPTH 62 | | |
|------------|---------------|---------------|---------------------|-------------|------------------------|----------------------------|--|--------------|----------|--|
| DEPTH m | PRESS dbar | TEMP °C | SALIN psu | OXY ml/l | ATN m ⁻¹ | SIGT gm/cm ³ | DYHT A 10m ² /s ² | S SPD m/s | N cph | |
| 3 | 2.6 | 3.698 | 32.526 | 7.60 | 0.36 | 25.848 | 0.000 | 1462. | 7.1 | |
| 4 | 4.0 | 3.704 | 32.525 | 7.60 | 0.36 | 25.847 | 0.003 | 1462. | 7.1 | |
| 6 | 6.0 | 3.704 | 32.527 | 7.62 | 0.35 | 25.848 | 0.007 | 1462. | 7.1 | |
| 8 | 8.0 | 3.712 | 32.530 | 7.63 | 0.36 | 25.850 | 0.012 | 1462. | 7.1 | |
| 10 | 10.0 | 3.893 | 32.622 | 7.56 | 0.33 | 25.905 | 0.016 | 1463. | 7.1 | |
| 12 | 12.0 | 4.358 | 32.780 | 7.36 | 0.30 | 25.984 | 0.020 | 1465. | 7.1 | |
| 14 | 14.0 | 4.575 | 32.858 | 7.26 | 0.27 | 26.024 | 0.024 | 1466. | 6.7 | |
| 16 | 16.0 | 4.670 | 32.890 | 7.20 | 0.24 | 26.039 | 0.028 | 1467. | 6.0 | |
| 18 | 18.0 | 4.736 | 32.908 | 7.16 | 0.24 | 26.046 | 0.032 | 1467. | 4.7 | |
| 20 | 20.0 | 4.779 | 32.916 | 7.14 | 0.24 | 26.048 | 0.036 | 1467. | 3.1 | |
| 22 | 22.0 | 4.802 | 32.918 | 7.14 | 0.24 | 26.046 | 0.040 | 1468. | 2.0 | |
| 24 | 24.0 | 4.826 | 32.924 | 7.15 | 0.25 | 26.049 | 0.044 | 1468. | 1.4 | |
| 26 | 25.9 | 4.844 | 32.927 | 7.14 | 0.25 | 26.050 | 0.047 | 1468. | 1.2 | |
| 28 | 28.0 | 4.868 | 32.934 | 7.13 | 0.25 | 26.052 | 0.051 | 1468. | 1.2 | |
| 30 | 30.0 | 4.870 | 32.931 | 7.13 | 0.25 | 26.050 | 0.055 | 1468. | 1.2 | |
| 32 | 32.0 | 4.886 | 32.936 | 7.13 | 0.25 | 26.052 | 0.059 | 1468. | 1.1 | |
| 34 | 33.9 | 4.906 | 32.941 | 7.13 | 0.25 | 26.054 | 0.063 | 1468. | 1.0 | |
| 36 | 36.0 | 4.912 | 32.942 | 7.13 | 0.25 | 26.054 | 0.067 | 1468. | 0.9 | |
| 38 | 38.0 | 4.913 | 32.942 | 7.11 | 0.25 | 26.054 | 0.071 | 1468. | 0.9 | |
| 40 | 40.1 | 4.913 | 32.943 | 7.13 | 0.25 | 26.054 | 0.075 | 1468. | 0.8 | |
| 42 | 42.1 | 4.915 | 32.944 | 7.14 | 0.25 | 26.055 | 0.079 | 1468. | 0.7 | |
| 44 | 44.0 | 4.914 | 32.944 | 7.14 | 0.25 | 26.055 | 0.083 | 1468. | 0.7 | |
| 46 | 46.1 | 4.914 | 32.944 | 7.15 | 0.25 | 26.055 | 0.087 | 1469. | 0.7 | |
| 48 | 48.0 | 4.914 | 32.944 | 7.15 | 0.25 | 26.055 | 0.090 | 1469. | 0.7 | |
| 49 | 49.3 | 4.917 | 32.945 | 7.16 | 0.25 | 26.056 | 0.093 | 1469. | 0.8 | |
| 50 | 50.0 | 4.918 | 32.945 | 7.16 | 0.25 | 26.056 | 0.094 | 1469. | 0.7 | |
| 51 | 51.0 | 4.919 | 32.946 | 7.16 | 0.25 | 26.056 | 0.096 | 1469. | 0.7 | |
| 52 | 52.0 | 4.928 | 32.948 | 7.16 | 0.25 | 26.057 | 0.098 | 1469. | 0.7 | |
| 53 | 53.0 | 4.928 | 32.948 | 7.16 | 0.25 | 26.056 | 0.100 | 1469. | 0.5 | |
| 54 | 54.1 | 4.928 | 32.947 | 7.16 | 0.25 | 26.056 | 0.102 | 1469. | 0.3 | |
| 55 | 55.0 | 4.929 | 32.947 | 7.16 | 0.25 | 26.056 | 0.104 | 1469. | -0.4 | |
| 56 | 56.0 | 4.935 | 32.950 | 7.15 | 0.25 | 26.057 | 0.106 | 1469. | -0.4 | |
| 57 | 57.0 | 4.934 | 32.948 | 7.15 | 0.25 | 26.056 | 0.108 | 1469. | -0.4 | |
| 58 | 58.0 | 4.934 | 32.948 | 7.16 | 0.25 | 26.056 | 0.110 | 1469. | -0.4 | |
| 58 | 58.6 | 4.937 | 32.948 | 7.16 | 0.25 | 26.056 | 0.111 | 1469. | -0.4 | |

| SHIP OC | CRUISE 181 | STATION 33 | DATE 07 FEB 1987 | | EST 1920 | LATITUDE 42°22.9'N | LONGITUDE 70°56.1'W | DEPTH 17 | | |
|------------|---------------|---------------|---------------------|-------------|------------------------|----------------------------|--|--------------|----------|--|
| DEPTH m | PRESS dbar | TEMP °C | SALIN psu | OXY ml/l | ATN m ⁻¹ | SIGT gm/cm ³ | DYHT A 10m ² /s ² | S SPD m/s | N cph | |
| 2 | 2.1 | 2.672 | 32.181 | 7.75 | 0.58 | 25.662 | 0.000 | 1457. | 5.1 | |
| 4 | 4.1 | 2.674 | 32.283 | 7.68 | 0.54 | 25.744 | 0.004 | 1458. | 5.1 | |
| 5 | 5.3 | 2.717 | 32.305 | 7.65 | 0.51 | 25.758 | 0.007 | 1458. | 5.1 | |
| 6 | 6.0 | 2.723 | 32.306 | 7.63 | 0.50 | 25.758 | 0.009 | 1458. | 5.1 | |
| 7 | 7.0 | 2.731 | 32.307 | 7.63 | 0.49 | 25.759 | 0.011 | 1458. | 5.1 | |
| 8 | 8.0 | 2.745 | 32.312 | 7.65 | 0.49 | 25.761 | 0.013 | 1458. | 2.3 | |
| 9 | 9.0 | 2.764 | 32.315 | 7.65 | 0.49 | 25.762 | 0.016 | 1458. | 1.4 | |
| 10 | 10.0 | 2.771 | 32.316 | 7.64 | 0.49 | 25.762 | 0.018 | 1458. | 1.2 | |
| 11 | 11.0 | 2.776 | 32.316 | 7.64 | 0.48 | 25.762 | 0.020 | 1458. | 1.2 | |
| 12 | 12.0 | 2.780 | 32.316 | 7.63 | 0.48 | 25.762 | 0.022 | 1458. | 1.2 | |
| 13 | 13.1 | 2.783 | 32.317 | 7.62 | 0.49 | 25.762 | 0.025 | 1458. | 1.2 | |
| 13 | 13.5 | 2.787 | 32.317 | 7.62 | 0.48 | 25.762 | 0.026 | 1458. | 1.2 | |

SHIP CRUISE STATION DATE EST LATITUDE LONGITUDE DEPTH
 OC 181 38 07 FEB 1987 2202 42°23.4'N 70°34.9'W 89

| DEPTH | PRESS | TEMP | SALIN | OXY | ATN | SIGT | DYHT A | S SPD | N |
|-------|-------|-------|--------|------|-----------------|--------------------|----------------------------------|-------|------|
| m | dbar | °C | psu | ml/l | m ⁻¹ | gm/cm ³ | 10m ² /s ² | m/s | cph |
| 2 | 1.9 | 3.106 | 32.116 | 8.00 | 0.58 | 25.575 | 0.000 | 1459. | 6.0 |
| 4 | 4.1 | 3.092 | 32.112 | 7.98 | 0.61 | 25.572 | 0.005 | 1459. | 6.0 |
| 6 | 5.9 | 3.033 | 32.114 | 8.03 | 0.65 | 25.579 | 0.010 | 1459. | 6.0 |
| 8 | 8.1 | 3.001 | 32.142 | 8.06 | 0.64 | 25.604 | 0.015 | 1459. | 6.0 |
| 10 | 10.0 | 3.027 | 32.185 | 8.06 | 0.64 | 25.636 | 0.019 | 1459. | 6.0 |
| 12 | 12.0 | 2.970 | 32.204 | 8.09 | 0.64 | 25.656 | 0.024 | 1459. | 6.5 |
| 14 | 14.0 | 2.993 | 32.238 | 8.08 | 0.61 | 25.681 | 0.028 | 1459. | 6.6 |
| 16 | 16.1 | 3.123 | 32.295 | 8.01 | 0.58 | 25.716 | 0.033 | 1460. | 6.5 |
| 18 | 18.0 | 3.275 | 32.355 | 7.93 | 0.53 | 25.750 | 0.038 | 1460. | 6.2 |
| 20 | 20.0 | 3.494 | 32.411 | 7.83 | 0.49 | 25.775 | 0.042 | 1461. | 5.8 |
| 22 | 21.9 | 3.607 | 32.443 | 7.78 | 0.44 | 25.790 | 0.046 | 1462. | 5.2 |
| 24 | 24.0 | 3.715 | 32.483 | 7.73 | 0.39 | 25.812 | 0.051 | 1463. | 4.7 |
| 26 | 26.0 | 3.754 | 32.493 | 7.70 | 0.36 | 25.816 | 0.055 | 1463. | 4.1 |
| 28 | 28.0 | 3.758 | 32.496 | 7.69 | 0.34 | 25.818 | 0.060 | 1463. | 3.8 |
| 30 | 30.0 | 3.734 | 32.500 | 7.70 | 0.32 | 25.823 | 0.064 | 1463. | 3.5 |
| 32 | 32.0 | 3.740 | 32.521 | 7.70 | 0.31 | 25.840 | 0.068 | 1463. | 3.5 |
| 34 | 34.0 | 3.760 | 32.531 | 7.70 | 0.31 | 25.846 | 0.073 | 1463. | 3.7 |
| 36 | 36.1 | 3.786 | 32.542 | 7.69 | 0.31 | 25.852 | 0.077 | 1463. | 3.6 |
| 38 | 37.9 | 3.804 | 32.550 | 7.68 | 0.31 | 25.857 | 0.081 | 1463. | 3.4 |
| 40 | 40.1 | 3.926 | 32.588 | 7.62 | 0.31 | 25.875 | 0.086 | 1464. | 3.3 |
| 42 | 42.0 | 3.994 | 32.604 | 7.59 | 0.31 | 25.881 | 0.090 | 1464. | 3.6 |
| 44 | 43.9 | 4.012 | 32.604 | 7.59 | 0.31 | 25.880 | 0.094 | 1464. | 3.9 |
| 46 | 46.0 | 4.017 | 32.605 | 7.58 | 0.31 | 25.880 | 0.098 | 1464. | 4.1 |
| 48 | 48.0 | 4.087 | 32.634 | 7.55 | 0.31 | 25.896 | 0.102 | 1465. | 4.1 |
| 50 | 50.0 | 4.302 | 32.700 | 7.46 | 0.31 | 25.926 | 0.106 | 1466. | 4.2 |
| 52 | 52.0 | 4.405 | 32.726 | 7.42 | 0.30 | 25.936 | 0.111 | 1466. | 4.2 |
| 54 | 54.0 | 4.459 | 32.742 | 7.39 | 0.27 | 25.944 | 0.115 | 1467. | 4.0 |
| 56 | 56.0 | 4.477 | 32.752 | 7.38 | 0.27 | 25.950 | 0.119 | 1467. | 3.6 |
| 57 | 57.9 | 4.505 | 32.764 | 7.37 | 0.26 | 25.957 | 0.123 | 1467. | 3.2 |
| 59 | 59.9 | 4.545 | 32.777 | 7.35 | 0.26 | 25.963 | 0.127 | 1467. | 3.2 |
| 61 | 61.9 | 4.597 | 32.790 | 7.33 | 0.27 | 25.967 | 0.131 | 1467. | 3.3 |
| 63 | 64.0 | 4.629 | 32.798 | 7.32 | 0.27 | 25.970 | 0.135 | 1467. | 3.3 |
| 65 | 65.9 | 4.681 | 32.819 | 7.30 | 0.27 | 25.982 | 0.139 | 1468. | 3.2 |
| 67 | 68.0 | 4.769 | 32.849 | 7.26 | 0.28 | 25.996 | 0.143 | 1468. | 3.1 |
| 70 | 70.1 | 4.830 | 32.866 | 7.23 | 0.34 | 26.002 | 0.147 | 1468. | 2.9 |
| 71 | 71.9 | 4.847 | 32.868 | 7.22 | 0.38 | 26.002 | 0.151 | 1469. | 2.6 |
| 73 | 74.0 | 4.852 | 32.868 | 7.21 | 0.41 | 26.002 | 0.155 | 1469. | 2.0 |
| 75 | 75.2 | 4.853 | 32.869 | 7.20 | 0.42 | 26.002 | 0.158 | 1469. | 1.0 |
| 75 | 75.9 | 4.854 | 32.868 | 7.19 | 0.42 | 26.002 | 0.159 | 1469. | -0.4 |
| 76 | 77.0 | 4.855 | 32.869 | 7.17 | 0.44 | 26.002 | 0.161 | 1469. | -0.3 |
| 77 | 78.0 | 4.856 | 32.869 | 7.17 | 0.47 | 26.002 | 0.163 | 1469. | -0.4 |
| 78 | 79.0 | 4.858 | 32.869 | 7.16 | 0.48 | 26.002 | 0.165 | 1469. | -0.5 |
| 79 | 80.0 | 4.858 | 32.869 | 7.13 | 0.48 | 26.002 | 0.167 | 1469. | -0.4 |
| 80 | 81.0 | 4.859 | 32.869 | 7.10 | 0.49 | 26.002 | 0.169 | 1469. | -0.4 |
| 81 | 82.1 | 4.859 | 32.869 | 7.08 | 0.50 | 26.002 | 0.171 | 1469. | -0.4 |
| 82 | 83.0 | 4.859 | 32.869 | 7.08 | 0.50 | 26.002 | 0.173 | 1469. | -0.4 |
| 83 | 84.0 | 4.860 | 32.869 | 7.07 | 0.50 | 26.002 | 0.175 | 1469. | -0.4 |

SHIP CRUISE STATION DATE EST LATITUDE LONGITUDE DEPTH
 OC 181 39 07 FEB 1987 2241 42°23.4'N 70°29.8'W 91

| DEPTH | PRESS | TEMP | SALIN | OXY | ATN | SIGT | DYHT A | S SPD | N |
|-------|-------|-------|--------|------|-----------------|--------------------|----------------------------------|-------|-----|
| m | dbar | °C | psu | ml/l | m ⁻¹ | gm/cm ³ | 10m ² /s ² | m/s | cph |
| 2 | 2.0 | 3.411 | 32.388 | 7.81 | 0.51 | 25.765 | 0.000 | 1461. | 5.3 |
| 4 | 4.0 | 3.410 | 32.386 | 7.82 | 0.51 | 25.763 | 0.004 | 1461. | 5.3 |
| 6 | 6.1 | 3.414 | 32.391 | 7.84 | 0.51 | 25.767 | 0.009 | 1461. | 5.3 |
| 8 | 8.0 | 3.445 | 32.428 | 7.84 | 0.51 | 25.793 | 0.013 | 1461. | 5.3 |
| 10 | 10.0 | 3.488 | 32.460 | 7.82 | 0.49 | 25.815 | 0.018 | 1461. | 5.3 |
| 12 | 12.0 | 3.537 | 32.496 | 7.81 | 0.47 | 25.839 | 0.022 | 1462. | 5.4 |
| 13 | 13.3 | 3.577 | 32.525 | 7.79 | 0.45 | 25.858 | 0.025 | 1462. | 5.2 |
| 16 | 16.1 | 3.753 | 32.570 | 7.71 | 0.41 | 25.877 | 0.031 | 1463. | 4.7 |
| 18 | 18.0 | 3.835 | 32.594 | 7.68 | 0.38 | 25.888 | 0.035 | 1463. | 4.3 |
| 20 | 19.9 | 3.911 | 32.608 | 7.65 | 0.37 | 25.893 | 0.039 | 1463. | 3.9 |
| 22 | 21.9 | 3.959 | 32.623 | 7.62 | 0.37 | 25.900 | 0.043 | 1464. | 3.5 |
| 24 | 23.9 | 3.992 | 32.639 | 7.60 | 0.36 | 25.910 | 0.047 | 1464. | 3.2 |
| 26 | 26.0 | 4.002 | 32.647 | 7.59 | 0.36 | 25.915 | 0.051 | 1464. | 2.9 |
| 28 | 28.0 | 4.046 | 32.665 | 7.57 | 0.34 | 25.925 | 0.055 | 1464. | 2.6 |
| 30 | 30.1 | 4.110 | 32.676 | 7.54 | 0.34 | 25.927 | 0.060 | 1465. | 2.6 |
| 32 | 32.1 | 4.115 | 32.675 | 7.54 | 0.34 | 25.925 | 0.064 | 1465. | 2.7 |
| 34 | 33.9 | 4.104 | 32.674 | 7.54 | 0.34 | 25.926 | 0.068 | 1465. | 2.8 |
| 36 | 36.0 | 4.113 | 32.678 | 7.54 | 0.35 | 25.928 | 0.072 | 1465. | 2.9 |
| 38 | 38.0 | 4.189 | 32.708 | 7.51 | 0.34 | 25.944 | 0.076 | 1465. | 3.1 |
| 40 | 40.0 | 4.252 | 32.728 | 7.49 | 0.33 | 25.954 | 0.080 | 1465. | 3.2 |
| 42 | 42.0 | 4.327 | 32.744 | 7.45 | 0.33 | 25.959 | 0.084 | 1466. | 3.1 |
| 44 | 44.0 | 4.331 | 32.750 | 7.45 | 0.33 | 25.963 | 0.088 | 1466. | 2.9 |
| 46 | 46.0 | 4.360 | 32.760 | 7.44 | 0.33 | 25.968 | 0.093 | 1466. | 2.4 |
| 48 | 48.0 | 4.373 | 32.764 | 7.43 | 0.33 | 25.970 | 0.097 | 1466. | 2.2 |
| 50 | 50.0 | 4.394 | 32.770 | 7.42 | 0.32 | 25.973 | 0.101 | 1466. | 2.0 |
| 52 | 52.0 | 4.407 | 32.774 | 7.42 | 0.32 | 25.974 | 0.105 | 1466. | 1.9 |
| 54 | 54.0 | 4.436 | 32.781 | 7.41 | 0.32 | 25.977 | 0.109 | 1466. | 1.7 |
| 56 | 56.0 | 4.470 | 32.787 | 7.40 | 0.32 | 25.978 | 0.113 | 1467. | 1.6 |
| 57 | 57.9 | 4.508 | 32.796 | 7.38 | 0.31 | 25.981 | 0.117 | 1467. | 1.4 |
| 60 | 60.0 | 4.567 | 32.805 | 7.35 | 0.30 | 25.983 | 0.121 | 1467. | 1.6 |
| 61 | 61.9 | 4.587 | 32.807 | 7.35 | 0.30 | 25.982 | 0.125 | 1467. | 1.9 |
| 64 | 64.0 | 4.598 | 32.809 | 7.34 | 0.30 | 25.983 | 0.129 | 1467. | 2.2 |
| 65 | 66.0 | 4.584 | 32.808 | 7.35 | 0.32 | 25.983 | 0.133 | 1467. | 2.4 |
| 67 | 68.0 | 4.576 | 32.819 | 7.35 | 0.34 | 25.993 | 0.137 | 1467. | 2.7 |
| 69 | 70.0 | 4.609 | 32.835 | 7.34 | 0.35 | 26.002 | 0.141 | 1468. | 2.8 |
| 71 | 72.1 | 4.620 | 32.840 | 7.33 | 0.36 | 26.005 | 0.145 | 1468. | 2.9 |
| 73 | 74.0 | 4.630 | 32.844 | 7.33 | 0.37 | 26.007 | 0.149 | 1468. | 2.8 |
| 75 | 76.1 | 4.665 | 32.860 | 7.31 | 0.39 | 26.015 | 0.153 | 1468. | 2.5 |
| 77 | 77.2 | 4.691 | 32.866 | 7.30 | 0.40 | 26.018 | 0.155 | 1468. | 2.3 |
| 77 | 78.0 | 4.697 | 32.866 | 7.30 | 0.41 | 26.017 | 0.157 | 1468. | 2.1 |
| 78 | 79.0 | 4.701 | 32.866 | 7.29 | 0.41 | 26.017 | 0.159 | 1468. | 1.8 |
| 79 | 80.1 | 4.704 | 32.867 | 7.27 | 0.42 | 26.017 | 0.161 | 1468. | 1.3 |
| 80 | 81.0 | 4.708 | 32.868 | 7.26 | 0.44 | 26.018 | 0.163 | 1468. | 1.2 |
| 81 | 82.0 | 4.714 | 32.871 | 7.25 | 0.48 | 26.019 | 0.165 | 1468. | 1.2 |
| 82 | 83.0 | 4.719 | 32.873 | 7.25 | 0.51 | 26.020 | 0.167 | 1468. | 1.2 |
| 83 | 83.9 | 4.719 | 32.873 | 7.25 | 0.51 | 26.020 | 0.169 | 1468. | 1.2 |
| 84 | 85.1 | 4.719 | 32.872 | 7.26 | 0.51 | 26.020 | 0.171 | 1468. | 1.2 |
| 85 | 85.6 | 4.718 | 32.873 | 7.26 | 0.52 | 26.020 | 0.172 | 1468. | 1.2 |

| SHIP OC | CRUISE 181 | STATION 40 | DATE 07 FEB 1987 | | EST 2319 | LATITUDE 42°23.5'N | LONGITUDE 70°24.8'W | DEPTH 31 | | |
|------------|---------------|---------------|---------------------|-------------|------------------------|----------------------------|--|--------------|----------|--|
| DEPTH m | PRESS dbar | TEMP. °C | SALIN psu | OXY ml/l | ATN m ⁻¹ | SIGT gm/cm ³ | DYHT A 10m ² /s ² | S SPD m/s | N cph | |
| 2 | 2.4 | 3.969 | 32.620 | 7.57 | 0.39 | 25.896 | 0.000 | 1463. | 4.8 | |
| 4 | 3.9 | 4.032 | 32.646 | 7.52 | 0.37 | 25.911 | 0.003 | 1464. | 4.8 | |
| 6 | 6.0 | 4.120 | 32.659 | 7.48 | 0.36 | 25.912 | 0.008 | 1464. | 4.8 | |
| 8 | 8.0 | 4.257 | 32.716 | 7.42 | 0.34 | 25.944 | 0.012 | 1465. | 4.8 | |
| 10 | 10.1 | 4.323 | 32.731 | 7.41 | 0.33 | 25.949 | 0.016 | 1465. | 4.8 | |
| 12 | 12.0 | 4.413 | 32.764 | 7.38 | 0.32 | 25.966 | 0.020 | 1466. | 4.7 | |
| 14 | 14.0 | 4.491 | 32.786 | 7.36 | 0.31 | 25.976 | 0.024 | 1466. | 4.8 | |
| 16 | 16.0 | 4.601 | 32.834 | 7.32 | 0.30 | 26.002 | 0.028 | 1467. | 4.9 | |
| 18 | 18.0 | 4.679 | 32.852 | 7.30 | 0.29 | 26.007 | 0.032 | 1467. | 5.1 | |
| 19 | 19.2 | 4.734 | 32.861 | 7.29 | 0.28 | 26.009 | 0.034 | 1467. | 5.1 | |
| 20 | 19.9 | 4.789 | 32.893 | 7.26 | 0.28 | 26.028 | 0.036 | 1468. | 5.1 | |
| 21 | 21.1 | 4.848 | 32.929 | 7.23 | 0.27 | 26.051 | 0.038 | 1468. | 4.7 | |
| 22 | 21.9 | 4.868 | 32.930 | 7.23 | 0.27 | 26.049 | 0.040 | 1468. | 4.5 | |
| 23 | 23.1 | 4.882 | 32.936 | 7.22 | 0.27 | 26.052 | 0.042 | 1468. | 3.9 | |
| 24 | 23.9 | 4.888 | 32.938 | 7.22 | 0.27 | 26.053 | 0.044 | 1468. | 3.9 | |
| 25 | 25.0 | 4.890 | 32.938 | 7.22 | 0.27 | 26.053 | 0.046 | 1468. | 3.9 | |
| 26 | 26.0 | 4.898 | 32.943 | 7.22 | 0.27 | 26.056 | 0.048 | 1468. | 3.9 | |
| 27 | 26.7 | 4.902 | 32.944 | 7.21 | 0.27 | 26.057 | 0.049 | 1468. | 3.9 | |

| SHIP OC | CRUISE 181 | STATION 41 | DATE 08 FEB 1987 | | EST 0018 | LATITUDE 42°24.9'N | LONGITUDE 70°14.1'W | DEPTH 67 | | |
|------------|---------------|---------------|---------------------|-------------|------------------------|----------------------------|--|--------------|----------|--|
| DEPTH m | PRESS dbar | TEMP. °C | SALIN psu | OXY ml/l | ATN m ⁻¹ | SIGT gm/cm ³ | DYHT A 10m ² /s ² | S SPD m/s | N cph | |
| 2 | 1.9 | 5.137 | 32.991 | 7.11 | 0.23 | 26.068 | 0.000 | 1469. | 0.7 | |
| 4 | 4.1 | 5.138 | 32.992 | 7.12 | 0.23 | 26.068 | 0.004 | 1469. | 0.7 | |
| 6 | 6.0 | 5.137 | 32.992 | 7.13 | 0.23 | 26.068 | 0.008 | 1469. | 0.7 | |
| 8 | 8.0 | 5.138 | 32.992 | 7.13 | 0.23 | 26.068 | 0.012 | 1469. | 0.7 | |
| 10 | 10.0 | 5.138 | 32.992 | 7.15 | 0.23 | 26.068 | 0.016 | 1469. | 0.7 | |
| 12 | 12.0 | 5.132 | 32.991 | 7.15 | 0.23 | 26.068 | 0.020 | 1469. | 0.9 | |
| 14 | 14.0 | 5.123 | 32.991 | 7.15 | 0.23 | 26.069 | 0.023 | 1469. | 1.0 | |
| 16 | 16.0 | 5.114 | 32.990 | 7.15 | 0.23 | 26.069 | 0.027 | 1469. | 1.1 | |
| 18 | 18.0 | 5.099 | 32.990 | 7.15 | 0.23 | 26.071 | 0.031 | 1469. | 1.1 | |
| 20 | 20.0 | 5.089 | 32.990 | 7.16 | 0.23 | 26.072 | 0.035 | 1469. | 1.1 | |
| 22 | 22.0 | 5.082 | 32.989 | 7.15 | 0.23 | 26.072 | 0.039 | 1469. | 1.0 | |
| 24 | 24.0 | 5.077 | 32.989 | 7.15 | 0.23 | 26.073 | 0.043 | 1469. | 0.9 | |
| 26 | 25.9 | 5.075 | 32.989 | 7.15 | 0.23 | 26.073 | 0.047 | 1469. | 0.7 | |
| 28 | 28.0 | 5.072 | 32.989 | 7.16 | 0.23 | 26.073 | 0.050 | 1469. | 0.7 | |
| 30 | 30.1 | 5.070 | 32.989 | 7.16 | 0.23 | 26.073 | 0.054 | 1469. | 0.6 | |
| 32 | 32.0 | 5.069 | 32.989 | 7.17 | 0.23 | 26.073 | 0.058 | 1469. | 0.5 | |
| 34 | 34.0 | 5.065 | 32.989 | 7.16 | 0.23 | 26.074 | 0.062 | 1469. | 0.5 | |
| 36 | 36.0 | 5.063 | 32.989 | 7.16 | 0.23 | 26.074 | 0.066 | 1469. | 0.4 | |
| 38 | 37.9 | 5.063 | 32.989 | 7.16 | 0.23 | 26.074 | 0.070 | 1469. | 0.4 | |
| 40 | 40.0 | 5.066 | 32.989 | 7.16 | 0.23 | 26.074 | 0.074 | 1469. | 0.4 | |
| 42 | 42.0 | 5.063 | 32.989 | 7.16 | 0.23 | 26.074 | 0.078 | 1469. | 0.3 | |
| 44 | 44.0 | 5.063 | 32.989 | 7.16 | 0.23 | 26.074 | 0.081 | 1469. | 0.4 | |
| 46 | 46.0 | 5.063 | 32.989 | 7.16 | 0.23 | 26.074 | 0.085 | 1469. | 0.4 | |
| 48 | 48.0 | 5.063 | 32.989 | 7.17 | 0.23 | 26.074 | 0.089 | 1469. | 0.3 | |
| 50 | 50.0 | 5.064 | 32.989 | 7.17 | 0.23 | 26.074 | 0.093 | 1469. | 0.2 | |
| 52 | 52.0 | 5.064 | 32.989 | 7.17 | 0.23 | 26.074 | 0.097 | 1469. | 0.1 | |
| 53 | 53.3 | 5.064 | 32.989 | 7.17 | 0.23 | 26.074 | 0.099 | 1469. | 0.1 | |
| 54 | 54.0 | 5.064 | 32.989 | 7.16 | 0.23 | 26.074 | 0.101 | 1469. | 0.2 | |
| 55 | 55.0 | 5.064 | 32.989 | 7.17 | 0.23 | 26.074 | 0.103 | 1469. | 0.3 | |
| 56 | 56.0 | 5.063 | 32.989 | 7.17 | 0.23 | 26.074 | 0.105 | 1469. | 0.5 | |
| 57 | 57.0 | 5.063 | 32.989 | 7.18 | 0.23 | 26.074 | 0.106 | 1469. | 0.5 | |
| 58 | 58.0 | 5.062 | 32.989 | 7.18 | 0.23 | 26.074 | 0.108 | 1469. | 0.6 | |
| 59 | 59.0 | 5.060 | 32.989 | 7.18 | 0.23 | 26.074 | 0.110 | 1469. | 0.6 | |
| 60 | 60.1 | 5.060 | 32.989 | 7.17 | 0.23 | 26.075 | 0.112 | 1469. | 0.6 | |
| 61 | 61.0 | 5.060 | 32.989 | 7.16 | 0.23 | 26.074 | 0.114 | 1469. | 0.6 | |
| 62 | 62.0 | 5.060 | 32.989 | 7.17 | 0.23 | 26.075 | 0.116 | 1469. | 0.6 | |

| SHIP OC | CRUISE 181 | STATION 42 | DATE 08 FEB 1987 | EST 0141 | LATITUDE 42°26.9'N | LONGITUDE 70°00.1'W | DEPTH 191 | | | | | | | | | | | | | | |
|------------|---------------|---------------|---------------------|-------------|------------------------|----------------------------|--|--------------|----------|--|--|--|--|--|--|--|--|--|--|--|--|
| DEPTH m | PRESS dbar | TEMP °C | SALIN psu | OXY ml/l | ATN m ⁻¹ | SIGT gm/cm ³ | DYHT A 10m ² /s ² | S SPD m/s | N cph | | | | | | | | | | | | |
| 2 | 2.4 | 5.176 | 32.993 | 7.03 | 0.21 | 26.065 | 0.000 | 1469. | -0.5 | | | | | | | | | | | | |
| 4 | 4.0 | 5.177 | 32.993 | 7.05 | 0.21 | 26.064 | 0.003 | 1469. | -0.5 | | | | | | | | | | | | |
| 6 | 6.0 | 5.177 | 32.992 | 7.05 | 0.22 | 26.064 | 0.007 | 1469. | -0.5 | | | | | | | | | | | | |
| 8 | 7.9 | 5.179 | 32.993 | 7.07 | 0.22 | 26.064 | 0.011 | 1469. | -0.5 | | | | | | | | | | | | |
| 10 | 10.0 | 5.181 | 32.993 | 7.09 | 0.22 | 26.064 | 0.015 | 1469. | -0.5 | | | | | | | | | | | | |
| 12 | 12.0 | 5.184 | 32.993 | 7.07 | 0.22 | 26.064 | 0.019 | 1469. | 0.3 | | | | | | | | | | | | |
| 14 | 14.0 | 5.188 | 32.993 | 7.07 | 0.22 | 26.063 | 0.022 | 1469. | 0.7 | | | | | | | | | | | | |
| 16 | 16.0 | 5.192 | 32.994 | 7.08 | 0.22 | 26.063 | 0.026 | 1469. | 0.9 | | | | | | | | | | | | |
| 18 | 18.0 | 5.191 | 32.994 | 7.08 | 0.22 | 26.064 | 0.030 | 1469. | 1.0 | | | | | | | | | | | | |
| 20 | 20.0 | 5.216 | 33.000 | 7.07 | 0.22 | 26.066 | 0.034 | 1469. | 1.2 | | | | | | | | | | | | |
| 22 | 22.0 | 5.258 | 33.008 | 7.05 | 0.23 | 26.067 | 0.038 | 1470. | 1.3 | | | | | | | | | | | | |
| 24 | 24.0 | 5.281 | 33.011 | 7.05 | 0.23 | 26.067 | 0.042 | 1470. | 1.3 | | | | | | | | | | | | |
| 26 | 26.0 | 5.292 | 33.014 | 7.05 | 0.24 | 26.068 | 0.046 | 1470. | 1.3 | | | | | | | | | | | | |
| 28 | 28.0 | 5.313 | 33.019 | 7.04 | 0.29 | 26.070 | 0.050 | 1470. | 1.3 | | | | | | | | | | | | |
| 30 | 30.0 | 5.332 | 33.023 | 7.03 | 0.26 | 26.071 | 0.053 | 1470. | 1.2 | | | | | | | | | | | | |
| 32 | 32.1 | 5.336 | 33.026 | 7.03 | 0.22 | 26.072 | 0.058 | 1470. | 1.2 | | | | | | | | | | | | |
| 34 | 34.0 | 5.344 | 33.028 | 7.03 | 0.23 | 26.073 | 0.061 | 1470. | 1.1 | | | | | | | | | | | | |
| 36 | 36.0 | 5.348 | 33.028 | 7.02 | 0.24 | 26.073 | 0.065 | 1470. | 1.1 | | | | | | | | | | | | |
| 38 | 38.0 | 5.350 | 33.030 | 7.03 | 0.23 | 26.074 | 0.069 | 1470. | 1.0 | | | | | | | | | | | | |
| 40 | 40.0 | 5.351 | 33.030 | 7.02 | 0.23 | 26.074 | 0.073 | 1470. | 1.0 | | | | | | | | | | | | |
| 42 | 42.0 | 5.350 | 33.031 | 7.02 | 0.22 | 26.075 | 0.077 | 1470. | 1.0 | | | | | | | | | | | | |
| 44 | 44.0 | 5.351 | 33.033 | 7.02 | 0.22 | 26.076 | 0.080 | 1470. | 1.0 | | | | | | | | | | | | |
| 46 | 46.0 | 5.353 | 33.034 | 7.02 | 0.22 | 26.077 | 0.084 | 1470. | 0.9 | | | | | | | | | | | | |
| 48 | 47.9 | 5.356 | 33.034 | 7.02 | 0.22 | 26.077 | 0.088 | 1470. | 0.8 | | | | | | | | | | | | |
| 50 | 50.0 | 5.360 | 33.036 | 7.03 | 0.22 | 26.077 | 0.092 | 1471. | 0.7 | | | | | | | | | | | | |
| 52 | 52.0 | 5.360 | 33.036 | 7.02 | 0.22 | 26.077 | 0.096 | 1471. | 0.6 | | | | | | | | | | | | |
| 54 | 54.0 | 5.357 | 33.035 | 7.03 | 0.22 | 26.077 | 0.100 | 1471. | 0.6 | | | | | | | | | | | | |
| 56 | 56.1 | 5.356 | 33.035 | 7.03 | 0.22 | 26.078 | 0.104 | 1471. | 0.6 | | | | | | | | | | | | |
| 58 | 58.0 | 5.356 | 33.036 | 7.04 | 0.21 | 26.078 | 0.107 | 1471. | 0.5 | | | | | | | | | | | | |
| 60 | 60.0 | 5.356 | 33.036 | 7.04 | 0.21 | 26.078 | 0.111 | 1471. | 0.5 | | | | | | | | | | | | |
| 62 | 62.0 | 5.360 | 33.037 | 7.05 | 0.21 | 26.079 | 0.115 | 1471. | 0.5 | | | | | | | | | | | | |
| 63 | 64.0 | 5.361 | 33.037 | 7.05 | 0.21 | 26.079 | 0.119 | 1471. | 0.4 | | | | | | | | | | | | |
| 65 | 66.0 | 5.361 | 33.037 | 7.05 | 0.21 | 26.078 | 0.123 | 1471. | 0.4 | | | | | | | | | | | | |
| 67 | 68.0 | 5.362 | 33.037 | 7.05 | 0.21 | 26.078 | 0.127 | 1471. | 0.3 | | | | | | | | | | | | |
| 69 | 70.0 | 5.362 | 33.037 | 7.06 | 0.21 | 26.078 | 0.131 | 1471. | 0.2 | | | | | | | | | | | | |
| 71 | 72.0 | 5.362 | 33.037 | 7.05 | 0.21 | 26.078 | 0.134 | 1471. | 0.3 | | | | | | | | | | | | |
| 73 | 74.0 | 5.363 | 33.037 | 7.05 | 0.21 | 26.078 | 0.138 | 1471. | 0.3 | | | | | | | | | | | | |
| 75 | 75.9 | 5.364 | 33.038 | 7.05 | 0.21 | 26.079 | 0.142 | 1471. | 0.4 | | | | | | | | | | | | |
| 77 | 78.0 | 5.364 | 33.038 | 7.05 | 0.21 | 26.079 | 0.146 | 1471. | 0.4 | | | | | | | | | | | | |
| 79 | 80.0 | 5.364 | 33.038 | 7.05 | 0.21 | 26.079 | 0.150 | 1471. | 0.5 | | | | | | | | | | | | |
| 81 | 82.1 | 5.364 | 33.038 | 7.05 | 0.21 | 26.079 | 0.154 | 1471. | 0.6 | | | | | | | | | | | | |
| 83 | 84.0 | 5.364 | 33.038 | 7.05 | 0.21 | 26.079 | 0.158 | 1471. | 0.4 | | | | | | | | | | | | |
| 85 | 86.0 | 5.365 | 33.038 | 7.05 | 0.21 | 26.079 | 0.161 | 1471. | 0.8 | | | | | | | | | | | | |
| 87 | 87.9 | 5.372 | 33.041 | 7.04 | 0.21 | 26.080 | 0.165 | 1471. | 0.8 | | | | | | | | | | | | |
| 89 | 90.0 | 5.380 | 33.042 | 7.03 | 0.21 | 26.080 | 0.169 | 1471. | 0.9 | | | | | | | | | | | | |
| 91 | 92.0 | 5.376 | 33.040 | 7.04 | 0.21 | 26.078 | 0.173 | 1471. | 1.0 | | | | | | | | | | | | |
| 93 | 94.0 | 5.400 | 33.049 | 7.04 | 0.22 | 26.083 | 0.177 | 1471. | 1.0 | | | | | | | | | | | | |
| 95 | 95.9 | 5.406 | 33.048 | 7.03 | 0.22 | 26.082 | 0.181 | 1471. | 1.0 | | | | | | | | | | | | |
| 97 | 98.0 | 5.409 | 33.049 | 7.02 | 0.22 | 26.082 | 0.185 | 1472. | 1.0 | | | | | | | | | | | | |
| 99 | 100.0 | 5.433 | 33.056 | 7.02 | 0.23 | 26.085 | 0.189 | 1472. | 1.1 | | | | | | | | | | | | |

| SHIP OC | CRUISE 181 | STATION 42 | DATE 08 FEB 1987 | EST 0141 | LATITUDE 42°26.9'N | LONGITUDE 70°00.1'W | DEPTH 191 | | | | | | | | | | | | | | |
|------------|---------------|---------------|---------------------|-------------|------------------------|----------------------------|--|--------------|----------|--|--|--|--|--|--|--|--|--|--|--|--|
| DEPTH m | PRESS dbar | TEMP °C | SALIN psu | OXY ml/l | ATN m ⁻¹ | SIGT gm/cm ³ | DYHT A 10m ² /s ² | S SPD m/s | N cph | | | | | | | | | | | | |
| 101 | 102.0 | 5.450 | 33.057 | 7.02 | 0.23 | 26.084 | 0.192 | 1472. | 0.9 | | | | | | | | | | | | |
| 103 | 104.1 | 5.458 | 33.059 | 7.01 | 0.23 | 26.084 | 0.196 | 1472. | 1.1 | | | | | | | | | | | | |
| 105 | 106.1 | 5.467 | 33.061 | 7.00 | 0.23 | 26.085 | 0.200 | 1472. | 1.1 | | | | | | | | | | | | |
| 107 | 108.0 | 5.494 | 33.068 | 6.99 | 0.24 | 26.087 | 0.204 | 1472. | 1.1 | | | | | | | | | | | | |
| 109 | 110.0 | 5.514 | 33.070 | 6.99 | 0.24 | 26.086 | 0.208 | 1472. | 1.1 | | | | | | | | | | | | |
| 111 | 112.0 | 5.536 | 33.076 | 6.98 | 0.25 | 26.089 | 0.212 | 1472. | 1.0 | | | | | | | | | | | | |
| 113 | 114.0 | 5.555 | 33.080 | 6.98 | 0.26 | 26.090 | 0.215 | 1472. | 0.9 | | | | | | | | | | | | |
| 115 | 116.0 | 5.554 | 33.079 | 6.98 | 0.26 | 26.089 | 0.219 | 1472. | 0.8 | | | | | | | | | | | | |
| 117 | 118.0 | 5.556 | 33.080 | 6.97 | 0.26 | 26.089 | 0.223 | 1472. | 0.9 | | | | | | | | | | | | |
| 119 | 119.9 | 5.563 | 33.082 | 6.96 | 0.27 | 26.090 | 0.227 | 1473. | 0.9 | | | | | | | | | | | | |
| 121 | 122.0 | 5.567 | 33.083 | 6.95 | 0.27 | 26.090 | 0.231 | 1473. | 1.0 | | | | | | | | | | | | |
| 123 | 124.0 | 5.570 | 33.083 | 6.95 | 0.27 | 26.090 | 0.235 | 1473. | 1.2 | | | | | | | | | | | | |
| 125 | 126.0 | 5.576 | 33.086 | 6.96 | 0.28 | 26.092 | 0.239 | 1473. | 1.3 | | | | | | | | | | | | |
| 127 | 128.0 | 5.592 | 33.091 | 6.95 | 0.29 | 26.094 | 0.242 | 1473. | 1.3 | | | | | | | | | | | | |
| 129 | 130.0 | 5.598 | 33.093 | 6.95 | 0.29 | 26.095 | 0.246 | 1473. | 1.4 | | | | | | | | | | | | |
| 131 | 132.0 | 5.606 | 33.095 | 6.96 | 0.29 | 26.095 | 0.250 | 1473. | 1.3 | | | | | | | | | | | | |
| 133 | 134.0 | 5.614 | 33.098 | 6.95 | 0.30 | 26.097 | 0.254 | 1473. | 1.1 | | | | | | | | | | | | |
| 135 | 136.0 | 5.621 | 33.100 | 6.93 | 0.30 | 26.098 | 0.258 | 1473. | 1.0 | | | | | | | | | | | | |
| 137 | 138.1 | 5.630 | 33.103 | 6.93 | 0.30 | 26.099 | 0.262 | 1473. | 1.1 | | | | | | | | | | | | |
| 139 | 139.9 | 5.631 | 33.102 | 6.92 | 0.30 | 26.098 | 0.265 | 1473. | 1.4 | | | | | | | | | | | | |
| 141 | 142.1 | 5.625 | 33.100 | 6.94 | 0.30 | 26.097 | 0.269 | 1473. | 1.6 | | | | | | | | | | | | |
| 143 | 144.0 | 5.642 | 33.107 | 6.95 | 0.30 | 26.101 | 0.273 | 1473. | 1.8 | | | | | | | | | | | | |
| 145 | 146.0 | 5.651 | 33.110 | 6.94 | 0.30 | 26.102 | 0.277 | 1473. | 2.0 | | | | | | | | | | | | |
| 147 | 148.0 | 5.680 | 33.124 | 6.94 | 0.28 | 26.109 | 0.281 | 1474. | 2.2 | | | | | | | | | | | | |
| 149 | 150.0 | 5.711 | 33.129 | 6.92 | 0.27 | 26.110 | 0.285 | 1474. | 2.1 | | | | | | | | | | | | |
| 151 | 152.1 | 5.733 | 33.139 | 6.91 | 0.26 | 26.115 | 0.289 | 1474. | 2.0 | | | | | | | | | | | | |
| 153 | 154.0 | 5.752 | 33.145 | 6.91 | 0.25 | 26.118 | 0.292 | 1474. | 1.9 | | | | | | | | | | | | |
| 155 | 156.0 | 5.787 | 33.153 | 6.91 | 0.23 | 26.119 | 0.296 | 1474. | 1.8 | | | | | | | | | | | | |
| 157 | 158.0 | 5.789 | 33.151 | 6.90 | 0.23 | 26.118 | 0.300 | 1474. | 1.8 | | | | | | | | | | | | |
| 159 | 160.0 | 5.803 | 33.157 | 6.89 | 0.22 | 26.121 | 0.304 | 1474. | 1.8 | | | | | | | | | | | | |
| 161 | 162.0 | 5.831 | 33.165 | 6.88 | 0.21 | 26.123 | 0.307 | 1474. | 1.8 | | | | | | | | | | | | |
| 163 | 163.9 | 5.848 | 33.172 | 6.88 | 0.19 | 26.127 | 0.311 | 1475. | 1.8 | | | | | | | | | | | | |
| 165 | 166.0 | 5.879 | 33.180 | 6.87 | 0.18 | 26.130 | 0.315 | 1475. | 1.7 | | | | | | | | | | | | |
| 167 | 168.0 | 5.909 | 33.188 | 6.86 | 0.16 | 26.132 | 0.319 | 1475. | 1.5 | | | | | | | | | | | | |
| 169 | 170.1 | 5.917 | 33.189 | 6.84 | 0.16 | 26.132 | 0.323 | 1475. | 1.2 | | | | | | | | | | | | |
| 171 | 172.0 | 5.918 | 33.189 | 6.84 | 0.16 | 26.132 | 0.326 | 1475. | 0.9 | | | | | | | | | | | | |
| 173 | 174.0 | 5.917 | 33.189 | 6.85 | 0.16 | 26.132 | 0.330 | 1475. | 0.7 | | | | | | | | | | | | |
| 175 | 176.0 | 5.917 | 33.189 | 6.86 | 0.16 | 26.132 | 0.334 | 1475. | 0.5 | | | | | | | | | | | | |
| 176 | 177.2 | 5.916 | 33.189 | 6.85 | 0.16 | 26.132 | 0.336 | 1475. | 0.6 | | | | | | | | | | | | |
| 177 | 178.0 | 5.917 | 33.189 | 6.86 | 0.17 | 26.132 | 0.338 | 1475. | 0.7 | | | | | | | | | | | | |
| 178 | 179.0 | 5.922 | 33.191 | 6.86 | 0.18 | 26.133 | 0.340 | 1475. | 1.0 | | | | | | | | | | | | |
| 179 | 180.0 | 5.928 | 33.192 | 6.85 | 0.18 | 26.133 | 0.342 | 1475. | 1.2 | | | | | | | | | | | | |
| 180 | 181.0 | 5.931 | 33.192 | 6.85 | 0.20 | 26.133 | 0.343 | 1475. | 1.3 | | | | | | | | | | | | |
| 181 | 182.0 | 5.942 | 33.194 | 6.84 | 0.22 | 26.133 | 0.345 | 1475. | 1.6 | | | | | | | | | | | | |
| 181 | 183.0 | 5.949 | 33.199 | 6.83 | 0.23 | 26.136 | 0.347 | 1475. | 2.3 | | | | | | | | | | | | |
| 182 | 184.0 | 5.952 | 33.199 | 6.82 | 0.23 | 26.136 | 0.349 | 1475. | 2.3 | | | | | | | | | | | | |
| 183 | 184.9 | 5.956 | 33.201 | 6.82 | 0.24 | 26.137 | 0.351 | 1475. | 2.3 | | | | | | | | | | | | |
| 184 | 186.0 | 5.971 | 33.208 | 6.82 | 0.25 | 26.140 | 0.353 | 1475. | 2.3 | | | | | | | | | | | | |
| 185 | 186.7 | 6.019 | 33.228 | 6.80 | 0.27 | 26.151 | 0.354 | 1476. | 2.3 | | | | | | | | | | | | |

| SHIP OC | CRUISE 181 | STATION 43 | DATE 08 FEB 1987 | EST 0315 | LATITUDE 42°29.1'N | LONGITUDE 69°45.2'W | DEPTH 279 | | | | | | | | | | | | | | |
|------------|---------------|---------------|---------------------|-------------|------------------------|----------------------------|--|--------------|----------|--|--|--|--|--|--|--|--|--|--|--|--|
| DEPTH m | PRESS dbar | TEMP. °C | SALIN. psu | OXY ml/l | ATN m ⁻¹ | SIGT gm/cm ³ | DYHT A 10m ² /s ² | S SPD m/s | N cph | | | | | | | | | | | | |
| 3 | 2.6 | 5.810 | 33.166 | 6.77 | 0.17 | 26.127 | 0.000 | 1472. | 0.2 | | | | | | | | | | | | |
| 4 | 3.9 | 5.811 | 33.166 | 6.81 | 0.17 | 26.127 | 0.002 | 1472. | 0.2 | | | | | | | | | | | | |
| 6 | 5.9 | 5.812 | 33.167 | 6.82 | 0.17 | 26.127 | 0.006 | 1472. | 0.2 | | | | | | | | | | | | |
| 8 | 8.0 | 5.811 | 33.166 | 6.83 | 0.17 | 26.127 | 0.010 | 1472. | 0.2 | | | | | | | | | | | | |
| 10 | 10.0 | 5.812 | 33.166 | 6.83 | 0.17 | 26.127 | 0.014 | 1472. | 0.2 | | | | | | | | | | | | |
| 12 | 12.0 | 5.811 | 33.166 | 6.83 | 0.17 | 26.127 | 0.018 | 1472. | 0.2 | | | | | | | | | | | | |
| 14 | 14.0 | 5.812 | 33.167 | 6.84 | 0.17 | 26.127 | 0.021 | 1472. | 0.1 | | | | | | | | | | | | |
| 16 | 16.0 | 5.813 | 33.166 | 6.84 | 0.17 | 26.127 | 0.025 | 1472. | 0.1 | | | | | | | | | | | | |
| 18 | 18.0 | 5.811 | 33.166 | 6.85 | 0.17 | 26.127 | 0.029 | 1472. | 0.0 | | | | | | | | | | | | |
| 20 | 20.0 | 5.812 | 33.167 | 6.84 | 0.17 | 26.127 | 0.033 | 1472. | 0.2 | | | | | | | | | | | | |
| 22 | 22.0 | 5.816 | 33.167 | 6.84 | 0.17 | 26.127 | 0.036 | 1472. | 0.2 | | | | | | | | | | | | |
| 24 | 24.0 | 5.816 | 33.167 | 6.84 | 0.17 | 26.127 | 0.040 | 1472. | 0.3 | | | | | | | | | | | | |
| 26 | 26.0 | 5.818 | 33.167 | 6.85 | 0.17 | 26.127 | 0.044 | 1472. | 0.0 | | | | | | | | | | | | |
| 28 | 28.0 | 5.819 | 33.168 | 6.84 | 0.17 | 26.127 | 0.048 | 1472. | 0.2 | | | | | | | | | | | | |
| 30 | 30.0 | 5.820 | 33.168 | 6.85 | 0.17 | 26.127 | 0.051 | 1472. | 0.3 | | | | | | | | | | | | |
| 32 | 32.0 | 5.823 | 33.168 | 6.85 | 0.17 | 26.127 | 0.055 | 1472. | 0.6 | | | | | | | | | | | | |
| 34 | 34.0 | 5.817 | 33.167 | 6.85 | 0.17 | 26.127 | 0.059 | 1472. | 0.6 | | | | | | | | | | | | |
| 36 | 36.1 | 5.821 | 33.168 | 6.85 | 0.17 | 26.128 | 0.063 | 1472. | 0.6 | | | | | | | | | | | | |
| 38 | 38.0 | 5.817 | 33.167 | 6.85 | 0.17 | 26.127 | 0.066 | 1472. | 0.8 | | | | | | | | | | | | |
| 40 | 40.0 | 5.830 | 33.173 | 6.85 | 0.17 | 26.130 | 0.070 | 1472. | 0.9 | | | | | | | | | | | | |
| 42 | 42.0 | 5.851 | 33.175 | 6.84 | 0.17 | 26.129 | 0.074 | 1473. | 0.8 | | | | | | | | | | | | |
| 44 | 44.0 | 5.853 | 33.174 | 6.85 | 0.17 | 26.128 | 0.078 | 1473. | 0.8 | | | | | | | | | | | | |
| 46 | 45.9 | 5.860 | 33.178 | 6.84 | 0.16 | 26.130 | 0.081 | 1473. | 0.8 | | | | | | | | | | | | |
| 48 | 48.0 | 5.871 | 33.180 | 6.84 | 0.16 | 26.130 | 0.085 | 1473. | 0.8 | | | | | | | | | | | | |
| 50 | 50.0 | 5.870 | 33.179 | 6.84 | 0.16 | 26.130 | 0.089 | 1473. | 1.0 | | | | | | | | | | | | |
| 52 | 52.0 | 5.870 | 33.179 | 6.84 | 0.16 | 26.130 | 0.093 | 1473. | 1.0 | | | | | | | | | | | | |
| 54 | 53.9 | 5.879 | 33.182 | 6.84 | 0.16 | 26.132 | 0.096 | 1473. | 1.0 | | | | | | | | | | | | |
| 56 | 56.0 | 5.893 | 33.186 | 6.84 | 0.15 | 26.133 | 0.100 | 1473. | 1.0 | | | | | | | | | | | | |
| 58 | 58.0 | 5.904 | 33.189 | 6.84 | 0.15 | 26.134 | 0.104 | 1473. | 1.0 | | | | | | | | | | | | |
| 59 | 59.9 | 5.913 | 33.191 | 6.84 | 0.15 | 26.134 | 0.108 | 1473. | 0.9 | | | | | | | | | | | | |
| 62 | 62.0 | 5.918 | 33.192 | 6.84 | 0.14 | 26.134 | 0.112 | 1473. | 0.8 | | | | | | | | | | | | |
| 64 | 64.1 | 5.922 | 33.192 | 6.85 | 0.14 | 26.134 | 0.115 | 1473. | 0.9 | | | | | | | | | | | | |
| 65 | 66.0 | 5.924 | 33.193 | 6.85 | 0.14 | 26.135 | 0.119 | 1473. | 1.0 | | | | | | | | | | | | |
| 67 | 68.0 | 5.928 | 33.194 | 6.84 | 0.14 | 26.135 | 0.123 | 1473. | 1.1 | | | | | | | | | | | | |
| 70 | 70.1 | 5.935 | 33.197 | 6.83 | 0.14 | 26.136 | 0.127 | 1473. | 1.2 | | | | | | | | | | | | |
| 71 | 72.0 | 5.940 | 33.200 | 6.82 | 0.14 | 26.138 | 0.130 | 1473. | 1.3 | | | | | | | | | | | | |
| 73 | 74.0 | 5.943 | 33.201 | 6.83 | 0.14 | 26.138 | 0.134 | 1473. | 1.4 | | | | | | | | | | | | |
| 75 | 76.0 | 5.949 | 33.204 | 6.83 | 0.14 | 26.140 | 0.138 | 1474. | 1.5 | | | | | | | | | | | | |
| 77 | 78.1 | 5.954 | 33.206 | 6.82 | 0.14 | 26.141 | 0.142 | 1474. | 1.6 | | | | | | | | | | | | |
| 79 | 80.0 | 5.963 | 33.210 | 6.82 | 0.13 | 26.143 | 0.145 | 1474. | 1.6 | | | | | | | | | | | | |
| 81 | 82.0 | 5.972 | 33.214 | 6.82 | 0.13 | 26.145 | 0.149 | 1474. | 1.6 | | | | | | | | | | | | |
| 83 | 84.0 | 5.980 | 33.217 | 6.82 | 0.13 | 26.147 | 0.153 | 1474. | 1.6 | | | | | | | | | | | | |
| 85 | 86.0 | 5.983 | 33.219 | 6.82 | 0.13 | 26.148 | 0.156 | 1474. | 1.5 | | | | | | | | | | | | |
| 87 | 88.0 | 5.990 | 33.222 | 6.81 | 0.13 | 26.149 | 0.160 | 1474. | 1.3 | | | | | | | | | | | | |
| 89 | 90.0 | 5.999 | 33.226 | 6.81 | 0.12 | 26.151 | 0.164 | 1474. | 1.2 | | | | | | | | | | | | |
| 91 | 92.0 | 6.003 | 33.227 | 6.81 | 0.12 | 26.151 | 0.168 | 1474. | 1.0 | | | | | | | | | | | | |
| 93 | 94.0 | 6.005 | 33.228 | 6.81 | 0.12 | 26.152 | 0.171 | 1474. | 0.9 | | | | | | | | | | | | |
| 95 | 96.0 | 6.006 | 33.228 | 6.80 | 0.12 | 26.152 | 0.175 | 1474. | 0.7 | | | | | | | | | | | | |
| 97 | 98.0 | 6.006 | 33.228 | 6.80 | 0.12 | 26.152 | 0.179 | 1474. | 0.5 | | | | | | | | | | | | |
| 99 | 100.0 | 6.006 | 33.228 | 6.81 | 0.12 | 26.152 | 0.183 | 1474. | 0.5 | | | | | | | | | | | | |

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| SHIP OC | CRUISE 181 | STATION 43 | DATE 08 FEB 1987 | EST 0315 | LATITUDE 42°29.1'N | LONGITUDE 69°45.2'W | DEPTH 279 | | | | | | | | | | | | | | |
|------------|---------------|---------------|---------------------|-------------|------------------------|----------------------------|--|--------------|----------|--|--|--|--|--|--|--|--|--|--|--|--|
| DEPTH m | PRESS dbar | TEMP. °C | SALIN. psu | OXY ml/l | ATN m ⁻¹ | SIGT gm/cm ³ | DYHT A 10m ² /s ² | S SPD m/s | N cph | | | | | | | | | | | | |
| 101 | 101.9 | 6.004 | 33.228 | 6.82 | 0.12 | 26.152 | 0.186 | 1474. | 0.4 | | | | | | | | | | | | |
| 103 | 104.1 | 6.004 | 33.228 | 6.81 | 0.12 | 26.152 | 0.190 | 1474. | 0.4 | | | | | | | | | | | | |
| 105 | 106.1 | 6.004 | 33.228 | 6.81 | 0.12 | 26.153 | 0.194 | 1474. | 0.4 | | | | | | | | | | | | |
| 107 | 108.1 | 6.004 | 33.228 | 6.82 | 0.12 | 26.152 | 0.198 | 1474. | 0.4 | | | | | | | | | | | | |
| 109 | 110.0 | 6.004 | 33.229 | 6.82 | 0.12 | 26.153 | 0.201 | 1474. | 0.5 | | | | | | | | | | | | |
| 111 | 111.9 | 6.004 | 33.228 | 6.81 | 0.12 | 26.152 | 0.205 | 1474. | 0.5 | | | | | | | | | | | | |
| 113 | 114.0 | 6.005 | 33.229 | 6.81 | 0.12 | 26.153 | 0.209 | 1474. | 0.5 | | | | | | | | | | | | |
| 115 | 116.0 | 6.005 | 33.229 | 6.82 | 0.12 | 26.153 | 0.212 | 1474. | 0.5 | | | | | | | | | | | | |
| 117 | 117.9 | 6.005 | 33.229 | 6.81 | 0.12 | 26.153 | 0.216 | 1474. | 0.4 | | | | | | | | | | | | |
| 119 | 120.1 | 6.004 | 33.229 | 6.81 | 0.12 | 26.153 | 0.220 | 1474. | 0.5 | | | | | | | | | | | | |
| 121 | 122.0 | 6.001 | 33.229 | 6.81 | 0.12 | 26.153 | 0.224 | 1475. | 0.5 | | | | | | | | | | | | |
| 123 | 124.1 | 5.999 | 33.229 | 6.82 | 0.12 | 26.153 | 0.227 | 1475. | 0.5 | | | | | | | | | | | | |
| 125 | 126.0 | 5.997 | 33.228 | 6.82 | 0.12 | 26.153 | 0.231 | 1475. | 0.5 | | | | | | | | | | | | |
| 127 | 128.0 | 5.996 | 33.229 | 6.82 | 0.12 | 26.154 | 0.235 | 1475. | 0.6 | | | | | | | | | | | | |
| 129 | 130.0 | 5.997 | 33.229 | 6.82 | 0.12 | 26.154 | 0.239 | 1475. | 0.6 | | | | | | | | | | | | |
| 131 | 132.0 | 5.999 | 33.230 | 6.82 | 0.12 | 26.154 | 0.242 | 1475. | 0.5 | | | | | | | | | | | | |
| 133 | 134.1 | 6.000 | 33.230 | 6.82 | 0.12 | 26.154 | 0.246 | 1475. | 0.5 | | | | | | | | | | | | |
| 135 | 136.1 | 6.001 | 33.230 | 6.82 | 0.12 | 26.154 | 0.250 | 1475. | 0.5 | | | | | | | | | | | | |
| 137 | 137.9 | 6.001 | 33.230 | 6.82 | 0.11 | 26.154 | 0.253 | 1475. | 0.5 | | | | | | | | | | | | |
| 139 | 139.9 | 6.002 | 33.231 | 6.82 | 0.12 | 26.155 | 0.257 | 1475. | 0.5 | | | | | | | | | | | | |
| 141 | 142.0 | 6.002 | 33.231 | 6.82 | 0.12 | 26.155 | 0.261 | 1475. | 0.5 | | | | | | | | | | | | |
| 143 | 144.0 | 6.002 | 33.231 | 6.82 | 0.12 | 26.155 | 0.265 | 1475. | 0.5 | | | | | | | | | | | | |
| 145 | 146.1 | 6.003 | 33.231 | 6.82 | 0.12 | 26.155 | 0.269 | 1475. | 0.5 | | | | | | | | | | | | |
| 147 | 148.0 | 6.004 | 33.232 | 6.82 | 0.12 | 26.155 | 0.272 | 1475. | 0.5 | | | | | | | | | | | | |
| 149 | 150.0 | 6.005 | 33.232 | 6.83 | 0.12 | 26.155 | 0.276 | 1475. | 0.6 | | | | | | | | | | | | |
| 151 | 152.0 | 6.006 | 33.232 | 6.82 | 0.12 | 26.155 | 0.280 | 1475. | 0.6 | | | | | | | | | | | | |
| 153 | 154.0 | 6.009 | 33.233 | 6.81 | 0.11 | 26.156 | 0.283 | 1475. | 0.6 | | | | | | | | | | | | |
| 155 | 156.0 | 6.013 | 33.234 | 6.81 | 0.11 | 26.156 | 0.287 | 1475. | 0.5 | | | | | | | | | | | | |
| 157 | 158.0 | 6.017 | 33.235 | 6.82 | 0.11 | 26.156 | 0.291 | 1475. | 0.5 | | | | | | | | | | | | |
| 159 | 159.9 | 6.019 | 33.235 | 6.82 | 0.11 | 26.156 | 0.294 | 1475. | 0.4 | | | | | | | | | | | | |
| 161 | 162.0 | 6.019 | 33.235 | 6.81 | 0.11 | 26.156 | 0.298 | 1475. | 0.1 | | | | | | | | | | | | |
| 163 | 164.0 | 6.020 | 33.235 | 6.81 | 0.11 | 26.156 | 0.302 | 1475. | -0.1 | | | | | | | | | | | | |
| 165 | 166.0 | 6.020 | 33.235 | 6.81 | 0.11 | 26.156 | 0.306 | 1475. | 0.0 | | | | | | | | | | | | |
| 167 | 168.0 | 6.020 | 33.235 | 6.81 | 0.11 | 26.156 | 0.309 | 1475. | 0.2 | | | | | | | | | | | | |
| 168 | 169.9 | 6.021 | 33.235 | 6.81 | 0.11 | 26.156 | 0.313 | 1475. | 0.3 | | | | | | | | | | | | |
| 171 | 172.0 | 6.023 | 33.236 | 6.82 | 0.11 | 26.156 | 0.317 | 1475. | 0.3 | | | | | | | | | | | | |
| 173 | 174.0 | 6.024 | 33.236 | 6.82 | 0.11 | 26.156 | 0.321 | 1475. | 0.4 | | | | | | | | | | | | |
| 175 | 176.1 | 6.024 | 33.236 | 6.82 | 0.11 | 26.156 | 0.325 | 1475. | 0.6 | | | | | | | | | | | | |
| 176 | 178.0 | 6.024 | 33.236 | 6.82 | 0.11 | 26.156 | 0.328 | 1476. | 0.7 | | | | | | | | | | | | |
| 179 | 180.1 | 6.024 | 33.236 | 6.82 | 0.11 | 26.156 | 0.332 | 1476. | 0.9 | | | | | | | | | | | | |
| 181 | 182.0 | 6.029 | 33.238 | 6.82 | 0.11 | 26.157 | 0.336 | 1476. | 1.0 | | | | | | | | | | | | |
| 182 | 184.0 | 6.043 | 33.241 | 6.81 | 0.11 | 26.158 | 0.339 | 1476. | 1.1 | | | | | | | | | | | | |
| 184 | 185.9 | 6.057 | 33.245 | 6.78 | 0.11 | 26.159 | 0.343 | 1476. | 1.2 | | | | | | | | | | | | |
| 187 | 188.1 | 6.066 | 33.248 | 6.73 | 0.11 | 26.160 | 0.347 | 1476. | 2.3 | | | | | | | | | | | | |
| 188 | 190.0 | 6.076 | 33.251 | 6.68 | 0.11 | 26.161 | 0.351 | 1476. | 4.3 | | | | | | | | | | | | |
| 190 | 192.1 | 6.087 | 33.254 | 6.63 | 0.11 | 26.163 | 0.354 | 1476. | 5.5 | | | | | | | | | | | | |
| 192 | 194.0 | 6.096 | 33.257 | 6.59 | 0.11 | 26.164 | 0.358 | 1476. | 6.3 | | | | | | | | | | | | |
| 194 | 196.0 | 6.209 | 33.322 | 6.52 | 0.11 | 26.201 | 0.362 | 1477. | 6.9 | | | | | | | | | | | | |
| 196 | 198.1 | 6.516 | 33.496 | 6.35 | 0.11 | 26.299 | 0.365 | 1478. | 7.2 | | | | | | | | | | | | |
| 198 | 200.1 | 6.630 | 33.542 | 6.08 | 0.11 | 26.320 | 0.369 | 1479. | 7.3 | | | | | | | | | | | | |

| SHIP OC | CRUISE 181 | STATION 45 | DATE 08 FEB 1987 | | | EST 0647 | LATITUDE 42°33.1'N | LONGITUDE 69°15.0'W | DEPTH 231 | |
|------------|---------------|---------------|---------------------|-------------|------------------------|----------------------------|--|------------------------|--------------|--|
| DEPTH m | PRESS dbar | TEMP °C | SALIN psu | OXY ml/l | ATN m ⁻¹ | SIGT gm/cm ³ | DYHT A 10m ² /s ² | S SPD m/s | N cph | |
| 2 | 2.3 | 5.340 | 32.929 | 7.00 | 0.12 | 25.995 | 0.000 | 1470. | -0.1 | |
| 4 | 4.1 | 5.341 | 32.929 | 7.01 | 0.12 | 25.995 | 0.004 | 1470. | -0.1 | |
| 6 | 6.0 | 5.344 | 32.929 | 7.00 | 0.12 | 25.995 | 0.007 | 1470. | -0.1 | |
| 8 | 8.0 | 5.344 | 32.929 | 6.98 | 0.12 | 25.995 | 0.011 | 1470. | -0.1 | |
| 10 | 9.9 | 5.347 | 32.928 | 6.98 | 0.12 | 25.994 | 0.015 | 1470. | -0.1 | |
| 12 | 12.0 | 5.345 | 32.929 | 6.99 | 0.12 | 25.994 | 0.019 | 1470. | 0.3 | |
| 14 | 13.9 | 5.346 | 32.929 | 6.99 | 0.12 | 25.995 | 0.023 | 1470. | 0.3 | |
| 16 | 16.0 | 5.348 | 32.929 | 7.00 | 0.12 | 25.995 | 0.027 | 1470. | 0.3 | |
| 18 | 18.0 | 5.355 | 32.931 | 6.99 | 0.12 | 25.995 | 0.031 | 1470. | 0.3 | |
| 20 | 20.0 | 5.363 | 32.932 | 7.00 | 0.12 | 25.995 | 0.035 | 1470. | 0.4 | |
| 22 | 22.0 | 5.361 | 32.931 | 7.00 | 0.12 | 25.994 | 0.039 | 1470. | 0.7 | |
| 24 | 23.9 | 5.364 | 32.932 | 7.00 | 0.12 | 25.995 | 0.043 | 1470. | 0.8 | |
| 26 | 26.0 | 5.365 | 32.932 | 7.01 | 0.12 | 25.994 | 0.047 | 1470. | 0.9 | |
| 28 | 28.0 | 5.368 | 32.934 | 7.01 | 0.12 | 25.996 | 0.051 | 1470. | 1.1 | |
| 30 | 30.0 | 5.387 | 32.940 | 7.00 | 0.12 | 25.998 | 0.055 | 1470. | 1.2 | |
| 32 | 32.0 | 5.390 | 32.939 | 7.00 | 0.12 | 25.997 | 0.059 | 1470. | 1.5 | |
| 34 | 34.0 | 5.398 | 32.943 | 7.00 | 0.12 | 25.999 | 0.063 | 1470. | 1.5 | |
| 36 | 35.9 | 5.414 | 32.946 | 7.00 | 0.11 | 26.000 | 0.067 | 1470. | 1.5 | |
| 38 | 38.0 | 5.427 | 32.950 | 6.99 | 0.11 | 26.002 | 0.071 | 1470. | 1.6 | |
| 40 | 40.0 | 5.474 | 32.964 | 6.97 | 0.11 | 26.007 | 0.075 | 1471. | 1.6 | |
| 42 | 42.0 | 5.478 | 32.961 | 6.97 | 0.11 | 26.004 | 0.079 | 1471. | 1.6 | |
| 44 | 44.0 | 5.482 | 32.966 | 6.97 | 0.11 | 26.008 | 0.083 | 1471. | 1.6 | |
| 46 | 46.0 | 5.484 | 32.967 | 6.96 | 0.11 | 26.009 | 0.087 | 1471. | 1.4 | |
| 48 | 47.9 | 5.494 | 32.971 | 6.96 | 0.11 | 26.010 | 0.091 | 1471. | 1.3 | |
| 50 | 50.1 | 5.520 | 32.978 | 6.95 | 0.11 | 26.013 | 0.096 | 1471. | 1.4 | |
| 52 | 52.0 | 5.538 | 32.981 | 6.95 | 0.11 | 26.013 | 0.099 | 1471. | 1.3 | |
| 54 | 53.9 | 5.525 | 32.978 | 6.96 | 0.11 | 26.012 | 0.103 | 1471. | 1.3 | |
| 56 | 56.0 | 5.507 | 32.978 | 6.97 | 0.11 | 26.014 | 0.107 | 1471. | 1.3 | |
| 58 | 58.1 | 5.505 | 32.980 | 6.98 | 0.11 | 26.016 | 0.111 | 1471. | 1.3 | |
| 60 | 60.1 | 5.521 | 32.984 | 6.98 | 0.11 | 26.017 | 0.115 | 1471. | 1.4 | |
| 61 | 62.0 | 5.530 | 32.985 | 6.97 | 0.11 | 26.018 | 0.119 | 1471. | 1.4 | |
| 63 | 64.0 | 5.549 | 32.991 | 6.96 | 0.11 | 26.019 | 0.123 | 1471. | 1.4 | |
| 65 | 65.9 | 5.573 | 32.996 | 6.95 | 0.11 | 26.021 | 0.127 | 1472. | 1.5 | |
| 67 | 68.0 | 5.600 | 33.002 | 6.94 | 0.10 | 26.023 | 0.131 | 1472. | 1.8 | |
| 70 | 70.1 | 5.615 | 33.004 | 6.94 | 0.10 | 26.023 | 0.135 | 1472. | 1.9 | |
| 71 | 72.0 | 5.629 | 33.008 | 6.93 | 0.10 | 26.024 | 0.139 | 1472. | 2.1 | |
| 73 | 74.0 | 5.668 | 33.020 | 6.91 | 0.10 | 26.029 | 0.143 | 1472. | 2.1 | |
| 75 | 75.9 | 5.741 | 33.041 | 6.87 | 0.10 | 26.036 | 0.147 | 1472. | 2.2 | |
| 77 | 78.0 | 5.794 | 33.050 | 6.85 | 0.09 | 26.037 | 0.151 | 1473. | 2.3 | |
| 79 | 80.0 | 5.839 | 33.060 | 6.83 | 0.09 | 26.040 | 0.155 | 1473. | 2.4 | |
| 81 | 82.0 | 5.876 | 33.068 | 6.81 | 0.10 | 26.042 | 0.159 | 1473. | 2.5 | |
| 83 | 84.1 | 5.924 | 33.079 | 6.80 | 0.10 | 26.044 | 0.163 | 1473. | 2.7 | |
| 85 | 86.0 | 5.958 | 33.092 | 6.77 | 0.11 | 26.050 | 0.167 | 1474. | 3.1 | |
| 87 | 88.0 | 6.018 | 33.114 | 6.75 | 0.12 | 26.060 | 0.170 | 1474. | 3.3 | |
| 89 | 90.1 | 6.055 | 33.124 | 6.74 | 0.13 | 26.064 | 0.175 | 1474. | 3.4 | |
| 91 | 92.0 | 6.105 | 33.146 | 6.71 | 0.14 | 26.075 | 0.178 | 1474. | 3.4 | |
| 93 | 94.0 | 6.150 | 33.167 | 6.68 | 0.16 | 26.086 | 0.182 | 1475. | 3.2 | |
| 95 | 96.0 | 6.163 | 33.174 | 6.68 | 0.16 | 26.090 | 0.186 | 1475. | 3.0 | |
| 97 | 97.9 | 6.161 | 33.180 | 6.67 | 0.15 | 26.095 | 0.190 | 1475. | 2.8 | |
| 99 | 100.0 | 6.155 | 33.184 | 6.67 | 0.14 | 26.099 | 0.194 | 1475. | 2.4 | |

| SHIP OC | CRUISE 181 | STATION 45 | DATE 08 FEB 1987 | | | EST 0647 | LATITUDE 42°33.1'N | LONGITUDE 69°15.0'W | DEPTH 231 | |
|------------|---------------|---------------|---------------------|-------------|------------------------|----------------------------|--|------------------------|--------------|--|
| DEPTH m | PRESS dbar | TEMP °C | SALIN psu | OXY ml/l | ATN m ⁻¹ | SIGT gm/cm ³ | DYHT A 10m ² /s ² | S SPD m/s | N cph | |
| 101 | 101.9 | 6.154 | 33.188 | 6.67 | 0.14 | 26.102 | 0.197 | 1475. | 2.3 | |
| 103 | 104.0 | 6.154 | 33.190 | 6.67 | 0.13 | 26.104 | 0.201 | 1475. | 2.3 | |
| 105 | 106.0 | 6.154 | 33.192 | 6.66 | 0.13 | 26.105 | 0.205 | 1475. | 2.4 | |
| 107 | 108.0 | 6.153 | 33.196 | 6.65 | 0.13 | 26.108 | 0.209 | 1475. | 2.6 | |
| 109 | 110.1 | 6.164 | 33.205 | 6.65 | 0.13 | 26.114 | 0.213 | 1475. | 2.8 | |
| 111 | 112.1 | 6.179 | 33.213 | 6.64 | 0.13 | 26.119 | 0.217 | 1475. | 3.0 | |
| 113 | 114.1 | 6.218 | 33.233 | 6.62 | 0.13 | 26.129 | 0.221 | 1475. | 3.1 | |
| 115 | 116.1 | 6.237 | 33.240 | 6.60 | 0.13 | 26.132 | 0.224 | 1475. | 3.1 | |
| 117 | 118.0 | 6.265 | 33.257 | 6.58 | 0.14 | 26.143 | 0.228 | 1476. | 3.0 | |
| 119 | 120.2 | 6.280 | 33.266 | 6.57 | 0.15 | 26.147 | 0.232 | 1476. | 2.8 | |
| 121 | 121.9 | 6.284 | 33.268 | 6.54 | 0.15 | 26.149 | 0.235 | 1476. | 2.6 | |
| 123 | 124.1 | 6.300 | 33.279 | 6.53 | 0.16 | 26.155 | 0.239 | 1476. | 2.5 | |
| 125 | 126.0 | 6.311 | 33.283 | 6.52 | 0.16 | 26.157 | 0.243 | 1476. | 2.4 | |
| 127 | 128.0 | 6.314 | 33.285 | 6.49 | 0.16 | 26.159 | 0.247 | 1476. | 2.5 | |
| 129 | 130.0 | 6.321 | 33.292 | 6.46 | 0.17 | 26.163 | 0.250 | 1476. | 2.7 | |
| 131 | 132.0 | 6.332 | 33.301 | 6.43 | 0.17 | 26.169 | 0.254 | 1476. | 2.8 | |
| 133 | 134.1 | 6.347 | 33.312 | 6.41 | 0.18 | 26.175 | 0.258 | 1476. | 3.0 | |
| 135 | 136.0 | 6.357 | 33.319 | 6.38 | 0.18 | 26.179 | 0.261 | 1476. | 3.1 | |
| 137 | 138.0 | 6.372 | 33.331 | 6.36 | 0.18 | 26.187 | 0.265 | 1476. | 3.2 | |
| 139 | 139.9 | 6.393 | 33.344 | 6.34 | 0.19 | 26.195 | 0.269 | 1476. | 3.4 | |
| 141 | 142.0 | 6.406 | 33.352 | 6.12 | 0.19 | 26.200 | 0.272 | 1477. | 3.5 | |
| 143 | 144.0 | 6.422 | 33.366 | 5.94 | 0.19 | 26.208 | 0.276 | 1477. | 3.5 | |
| 145 | 145.9 | 6.440 | 33.381 | 5.93 | 0.19 | 26.218 | 0.279 | 1477. | 3.4 | |
| 147 | 148.1 | 6.468 | 33.400 | 5.91 | 0.19 | 26.229 | 0.283 | 1477. | 3.3 | |
| 149 | 149.9 | 6.474 | 33.406 | 5.91 | 0.19 | 26.233 | 0.287 | 1477. | 3.2 | |
| 151 | 152.1 | 6.482 | 33.413 | 5.91 | 0.19 | 26.238 | 0.291 | 1477. | 3.0 | |
| 153 | 154.0 | 6.497 | 33.423 | 5.92 | 0.20 | 26.243 | 0.294 | 1477. | 2.8 | |
| 155 | 156.0 | 6.525 | 33.435 | 5.92 | 0.20 | 26.250 | 0.298 | 1477. | 2.7 | |
| 157 | 158.0 | 6.547 | 33.443 | 5.93 | 0.21 | 26.253 | 0.301 | 1478. | 2.8 | |
| 159 | 159.9 | 6.572 | 33.452 | 5.91 | 0.21 | 26.256 | 0.305 | 1478. | 2.7 | |
| 161 | 162.0 | 6.587 | 33.460 | 5.90 | 0.21 | 26.261 | 0.308 | 1478. | 2.7 | |
| 163 | 164.0 | 6.612 | 33.473 | 5.89 | 0.21 | 26.268 | 0.312 | 1478. | 2.6 | |
| 165 | 165.9 | 6.648 | 33.486 | 5.87 | 0.21 | 26.274 | 0.315 | 1478. | 2.7 | |
| 167 | 167.9 | 6.666 | 33.491 | 5.86 | 0.21 | 26.275 | 0.319 | 1478. | 2.9 | |
| 169 | 169.9 | 6.690 | 33.499 | 5.84 | 0.21 | 26.279 | 0.322 | 1478. | 3.2 | |
| 171 | 172.0 | 6.698 | 33.505 | 5.83 | 0.21 | 26.282 | 0.326 | 1478. | 3.4 | |
| 173 | 174.0 | 6.733 | 33.524 | 5.81 | 0.21 | 26.292 | 0.329 | 1479. | 3.8 | |
| 175 | 176.0 | 6.796 | 33.555 | 5.78 | 0.22 | 26.308 | 0.333 | 1479. | 3.9 | |
| 177 | 178.0 | 6.884 | 33.584 | 5.73 | 0.23 | 26.319 | 0.336 | 1479. | 4.2 | |
| 178 | 179.9 | 6.988 | 33.610 | 5.67 | 0.22 | 26.325 | 0.340 | 1480. | 4.5 | |
| 180 | 181.9 | 7.179 | 33.674 | 5.58 | 0.22 | 26.350 | 0.343 | 1481. | 4.5 | |
| 182 | 184.0 | 7.288 | 33.688 | 5.51 | 0.23 | 26.346 | 0.347 | 1481. | 4.6 | |
| 185 | 186.1 | 7.109 | 33.688 | 5.51 | 0.24 | 26.371 | 0.350 | 1480. | 4.6 | |
| 186 | 187.9 | 7.023 | 33.697 | 5.49 | 0.25 | 26.389 | 0.353 | 1480. | 4.4 | |
| 188 | 190.0 | 6.929 | 33.693 | 5.48 | 0.26 | 26.399 | 0.357 | 1480. | 4.3 | |
| 190 | 191.9 | 6.850 | 33.696 | 5.48 | 0.26 | 26.412 | 0.360 | 1480. | 4.2 | |
| 192 | 194.0 | 6.812 | 33.694 | 5.47 | 0.26 | 26.415 | 0.363 | 1479. | 3.7 | |
| 194 | 196.0 | 6.728 | 33.686 | 5.37 | 0.27 | 26.421 | 0.366 | 1479. | 3.2 | |
| 196 | 198.1 | 6.723 | 33.705 | 5.13 | 0.28 | 26.436 | 0.370 | 1479. | 2.9 | |
| 198 | 199.9 | 6.734 | 33.708 | 5.14 | 0.29 | 26.437 | 0.373 | 1479. | 2.5 | |

| SHIP OC | CRUISE 181 | STATION 45 | DATE 08 FEB 1987 | EST 0647 | LATITUDE 42°33.1'N | LONGITUDE 69°15.0'W | DEPTH 231 | | | | |
|------------|---------------|---------------|---------------------|-------------|------------------------|----------------------------|--|--------------|----------|--|--|
| DEPTH m | PRESS dbar | TEMP °C | SALIN psu | OXY ml/l | ATN m ⁻¹ | SIGT gm/cm ³ | DYHT A 10m ² /s ² | S SPD m/s | N cph | | |
| 200 | 202.1 | 6.727 | 33.708 | 5.15 | 0.30 | 26.438 | 0.376 | 1479. | 2.2 | | |
| 202 | 204.1 | 6.726 | 33.710 | 5.16 | 0.30 | 26.440 | 0.379 | 1479. | 1.7 | | |
| 204 | 206.1 | 6.728 | 33.711 | 5.18 | 0.30 | 26.441 | 0.383 | 1479. | 1.2 | | |
| 206 | 208.0 | 6.711 | 33.709 | 5.20 | 0.31 | 26.441 | 0.386 | 1479. | 1.2 | | |
| 208 | 210.0 | 6.696 | 33.707 | 5.23 | 0.30 | 26.441 | 0.389 | 1479. | 1.2 | | |
| 210 | 211.9 | 6.687 | 33.707 | 5.26 | 0.30 | 26.442 | 0.392 | 1479. | 1.2 | | |
| 212 | 214.1 | 6.689 | 33.708 | 5.27 | 0.31 | 26.443 | 0.395 | 1479. | 1.2 | | |
| 213 | 215.2 | 6.693 | 33.710 | 5.27 | 0.31 | 26.444 | 0.397 | 1479. | 1.2 | | |
| 214 | 216.0 | 6.692 | 33.711 | 5.26 | 0.33 | 26.445 | 0.398 | 1479. | 1.2 | | |
| 215 | 217.0 | 6.690 | 33.710 | 5.26 | 0.33 | 26.445 | 0.400 | 1479. | 1.0 | | |
| 216 | 218.0 | 6.689 | 33.711 | 5.26 | 0.33 | 26.445 | 0.402 | 1479. | 0.8 | | |
| 217 | 219.0 | 6.690 | 33.710 | 5.26 | 0.33 | 26.445 | 0.403 | 1479. | 0.7 | | |
| 218 | 219.9 | 6.689 | 33.711 | 5.26 | 0.33 | 26.445 | 0.405 | 1479. | 0.5 | | |
| 219 | 221.0 | 6.689 | 33.711 | 5.25 | 0.33 | 26.445 | 0.407 | 1479. | 0.6 | | |
| 220 | 222.0 | 6.689 | 33.710 | 5.25 | 0.33 | 26.445 | 0.408 | 1479. | 0.6 | | |
| 221 | 222.9 | 6.690 | 33.711 | 5.25 | 0.34 | 26.445 | 0.410 | 1479. | 0.6 | | |
| 222 | 224.0 | 6.690 | 33.711 | 5.25 | 0.35 | 26.445 | 0.411 | 1480. | 0.6 | | |
| 223 | 224.7 | 6.690 | 33.711 | 5.25 | 0.35 | 26.446 | 0.412 | 1480. | 0.6 | | |

| SHIP OC | CRUISE 181 | STATION 46 | DATE 08 FEB 1987 | EST 0912 | LATITUDE 42°34.3'N | LONGITUDE 68°59.0'W | DEPTH 205 | | | | |
|------------|---------------|---------------|---------------------|-------------|------------------------|----------------------------|--|--------------|----------|--|--|
| DEPTH m | PRESS dbar | TEMP °C | SALIN psu | OXY ml/l | ATN m ⁻¹ | SIGT gm/cm ³ | DYHT A 10m ² /s ² | S SPD m/s | N cph | | |
| 2 | 2.5 | 4.767 | 32.774 | 7.30 | 0.12 | 25.936 | 0.000 | 1467. | 1.7 | | |
| 4 | 3.7 | 4.767 | 32.774 | 7.32 | 0.12 | 25.937 | 0.003 | 1467. | 1.7 | | |
| 6 | 6.1 | 4.767 | 32.774 | 7.32 | 0.12 | 25.936 | 0.007 | 1467. | 1.7 | | |
| 8 | 8.2 | 4.764 | 32.773 | 7.32 | 0.12 | 25.936 | 0.012 | 1467. | 1.7 | | |
| 10 | 9.8 | 4.766 | 32.775 | 7.31 | 0.12 | 25.937 | 0.015 | 1467. | 1.7 | | |
| 12 | 12.0 | 4.776 | 32.778 | 7.29 | 0.12 | 25.938 | 0.020 | 1467. | 2.2 | | |
| 14 | 14.1 | 4.792 | 32.785 | 7.28 | 0.11 | 25.943 | 0.024 | 1467. | 2.5 | | |
| 16 | 15.9 | 4.828 | 32.797 | 7.27 | 0.11 | 25.948 | 0.027 | 1467. | 2.5 | | |
| 18 | 18.1 | 4.863 | 32.805 | 7.25 | 0.11 | 25.951 | 0.032 | 1468. | 2.5 | | |
| 20 | 20.1 | 4.945 | 32.834 | 7.22 | 0.11 | 25.965 | 0.036 | 1468. | 2.5 | | |
| 22 | 22.0 | 4.967 | 32.835 | 7.21 | 0.11 | 25.963 | 0.040 | 1468. | 2.8 | | |
| 24 | 24.0 | 4.974 | 32.836 | 7.21 | 0.11 | 25.963 | 0.044 | 1468. | 3.3 | | |
| 26 | 26.0 | 4.982 | 32.841 | 7.21 | 0.11 | 25.966 | 0.048 | 1468. | 3.8 | | |
| 28 | 28.0 | 5.026 | 32.853 | 7.20 | 0.10 | 25.971 | 0.052 | 1469. | 4.3 | | |
| 30 | 29.9 | 5.124 | 32.893 | 7.15 | 0.10 | 25.991 | 0.056 | 1469. | 4.7 | | |
| 32 | 31.8 | 5.270 | 32.944 | 7.08 | 0.09 | 26.015 | 0.060 | 1470. | 5.1 | | |
| 34 | 34.1 | 5.369 | 32.978 | 7.04 | 0.09 | 26.031 | 0.064 | 1470. | 5.2 | | |
| 36 | 36.0 | 5.493 | 33.029 | 6.99 | 0.09 | 26.057 | 0.068 | 1471. | 5.1 | | |
| 38 | 38.1 | 5.559 | 33.048 | 6.95 | 0.09 | 26.063 | 0.072 | 1471. | 5.0 | | |
| 40 | 40.0 | 5.682 | 33.099 | 6.90 | 0.08 | 26.089 | 0.076 | 1472. | 4.7 | | |
| 42 | 42.0 | 5.720 | 33.107 | 6.88 | 0.08 | 26.091 | 0.080 | 1472. | 4.4 | | |
| 44 | 44.0 | 5.769 | 33.130 | 6.86 | 0.08 | 26.104 | 0.084 | 1472. | 4.0 | | |
| 46 | 46.0 | 5.881 | 33.176 | 6.82 | 0.07 | 26.126 | 0.087 | 1473. | 3.6 | | |
| 48 | 47.9 | 5.903 | 33.178 | 6.81 | 0.07 | 26.125 | 0.091 | 1473. | 3.1 | | |
| 50 | 50.1 | 5.931 | 33.189 | 6.79 | 0.07 | 26.130 | 0.095 | 1473. | 2.7 | | |
| 52 | 52.0 | 5.943 | 33.191 | 6.79 | 0.07 | 26.131 | 0.099 | 1473. | 2.0 | | |
| 54 | 53.9 | 5.949 | 33.195 | 6.79 | 0.07 | 26.133 | 0.102 | 1473. | 1.3 | | |
| 55 | 55.9 | 5.941 | 33.193 | 6.80 | 0.07 | 26.133 | 0.106 | 1473. | 1.1 | | |
| 57 | 57.9 | 5.937 | 33.193 | 6.79 | 0.07 | 26.133 | 0.110 | 1473. | 0.8 | | |
| 60 | 60.1 | 5.934 | 33.193 | 6.80 | 0.07 | 26.133 | 0.114 | 1473. | 0.7 | | |
| 62 | 62.1 | 5.932 | 33.193 | 6.81 | 0.07 | 26.133 | 0.118 | 1473. | 0.5 | | |
| 63 | 63.9 | 5.929 | 33.193 | 6.81 | 0.07 | 26.134 | 0.121 | 1473. | 0.5 | | |
| 65 | 66.0 | 5.928 | 33.193 | 6.81 | 0.07 | 26.134 | 0.125 | 1473. | 0.5 | | |
| 68 | 68.2 | 5.928 | 33.193 | 6.81 | 0.07 | 26.134 | 0.129 | 1473. | 0.6 | | |
| 69 | 69.8 | 5.928 | 33.193 | 6.81 | 0.07 | 26.134 | 0.132 | 1473. | 0.7 | | |
| 72 | 72.1 | 5.930 | 33.194 | 6.81 | 0.07 | 26.134 | 0.136 | 1473. | 0.7 | | |
| 73 | 74.0 | 5.928 | 33.194 | 6.82 | 0.06 | 26.135 | 0.140 | 1473. | 0.7 | | |
| 75 | 75.9 | 5.930 | 33.195 | 6.82 | 0.06 | 26.135 | 0.143 | 1473. | 0.7 | | |
| 78 | 78.2 | 5.932 | 33.196 | 6.82 | 0.06 | 26.136 | 0.148 | 1473. | 0.7 | | |
| 79 | 79.9 | 5.935 | 33.196 | 6.82 | 0.06 | 26.136 | 0.151 | 1474. | 0.7 | | |
| 81 | 81.9 | 5.938 | 33.197 | 6.82 | 0.06 | 26.136 | 0.155 | 1474. | 0.6 | | |
| 84 | 84.2 | 5.942 | 33.198 | 6.82 | 0.06 | 26.136 | 0.159 | 1474. | 0.6 | | |
| 85 | 85.8 | 5.942 | 33.198 | 6.82 | 0.06 | 26.136 | 0.162 | 1474. | 0.7 | | |
| 88 | 88.2 | 5.943 | 33.199 | 6.81 | 0.06 | 26.137 | 0.167 | 1474. | 0.9 | | |
| 89 | 90.1 | 5.942 | 33.199 | 6.82 | 0.06 | 26.137 | 0.170 | 1474. | 1.0 | | |
| 91 | 91.8 | 5.941 | 33.199 | 6.81 | 0.07 | 26.137 | 0.173 | 1474. | 1.3 | | |
| 93 | 94.0 | 5.946 | 33.202 | 6.80 | 0.07 | 26.139 | 0.177 | 1474. | 1.8 | | |
| 95 | 96.1 | 5.959 | 33.206 | 6.79 | 0.06 | 26.140 | 0.181 | 1474. | 2.2 | | |
| 97 | 98.0 | 5.986 | 33.212 | 6.78 | 0.06 | 26.142 | 0.185 | 1474. | 2.4 | | |
| 99 | 99.9 | 6.014 | 33.222 | 6.77 | 0.06 | 26.146 | 0.188 | 1474. | 2.5 | | |

| SHIP OC | CRUISE 181 | STATION 46 | DATE 08 FEB 1987 | EST 0912 | LATITUDE 42°34.3'N | LONGITUDE 68°59.0'W | DEPTH 205 | | | | | | | | | | | | | | |
|------------|---------------|---------------|---------------------|-------------|------------------------|----------------------------|--|--------------|----------|--|--|--|--|--|--|--|--|--|--|--|--|
| DEPTH m | PRESS dbar | TEMP °C | SALIN psu | OXY ml/l | ATN m ⁻¹ | SIGT gm/cm ³ | DYHT A 10m ² /s ² | S SPD m/s | N cph | | | | | | | | | | | | |
| 101 | 101.9 | 6.122 | 33.255 | 6.73 | 0.06 | 26.159 | 0.192 | 1475. | 2.6 | | | | | | | | | | | | |
| 103 | 104.1 | 6.190 | 33.270 | 6.69 | 0.07 | 26.162 | 0.196 | 1475. | 2.6 | | | | | | | | | | | | |
| 105 | 106.1 | 6.210 | 33.273 | 6.66 | 0.07 | 26.162 | 0.200 | 1475. | 2.6 | | | | | | | | | | | | |
| 107 | 108.0 | 6.237 | 33.283 | 6.64 | 0.07 | 26.166 | 0.204 | 1475. | 2.7 | | | | | | | | | | | | |
| 109 | 110.0 | 6.283 | 33.296 | 6.61 | 0.07 | 26.171 | 0.207 | 1476. | 2.9 | | | | | | | | | | | | |
| 111 | 112.1 | 6.316 | 33.304 | 6.56 | 0.07 | 26.173 | 0.211 | 1476. | 3.3 | | | | | | | | | | | | |
| 113 | 114.0 | 6.349 | 33.317 | 6.53 | 0.07 | 26.179 | 0.215 | 1476. | 3.7 | | | | | | | | | | | | |
| 115 | 115.8 | 6.435 | 33.347 | 6.47 | 0.07 | 26.192 | 0.218 | 1476. | 3.9 | | | | | | | | | | | | |
| 117 | 118.2 | 6.567 | 33.390 | 6.38 | 0.08 | 26.209 | 0.222 | 1477. | 4.2 | | | | | | | | | | | | |
| 119 | 120.0 | 6.637 | 33.411 | 6.32 | 0.08 | 26.216 | 0.226 | 1477. | 4.5 | | | | | | | | | | | | |
| 121 | 122.0 | 6.734 | 33.446 | 6.25 | 0.09 | 26.231 | 0.229 | 1478. | 4.6 | | | | | | | | | | | | |
| 123 | 124.0 | 6.811 | 33.468 | 6.19 | 0.09 | 26.238 | 0.233 | 1478. | 4.9 | | | | | | | | | | | | |
| 125 | 126.0 | 6.943 | 33.525 | 6.12 | 0.11 | 26.265 | 0.236 | 1479. | 5.2 | | | | | | | | | | | | |
| 127 | 127.8 | 7.044 | 33.554 | 6.06 | 0.11 | 26.274 | 0.239 | 1479. | 5.2 | | | | | | | | | | | | |
| 129 | 130.1 | 7.116 | 33.585 | 5.74 | 0.13 | 26.288 | 0.243 | 1479. | 5.2 | | | | | | | | | | | | |
| 131 | 132.0 | 7.293 | 33.671 | 5.57 | 0.16 | 26.331 | 0.247 | 1480. | 4.9 | | | | | | | | | | | | |
| 133 | 134.1 | 7.379 | 33.698 | 5.51 | 0.18 | 26.341 | 0.250 | 1481. | 4.4 | | | | | | | | | | | | |
| 135 | 135.8 | 7.405 | 33.709 | 5.47 | 0.20 | 26.346 | 0.253 | 1481. | 4.1 | | | | | | | | | | | | |
| 137 | 138.0 | 7.436 | 33.725 | 5.43 | 0.22 | 26.354 | 0.257 | 1481. | 3.6 | | | | | | | | | | | | |
| 139 | 140.1 | 7.438 | 33.725 | 5.42 | 0.22 | 26.354 | 0.260 | 1481. | 2.8 | | | | | | | | | | | | |
| 141 | 141.8 | 7.442 | 33.728 | 5.42 | 0.23 | 26.356 | 0.263 | 1481. | 2.6 | | | | | | | | | | | | |
| 143 | 144.1 | 7.475 | 33.750 | 5.43 | 0.25 | 26.368 | 0.267 | 1481. | 2.4 | | | | | | | | | | | | |
| 145 | 145.9 | 7.506 | 33.762 | 5.44 | 0.25 | 26.374 | 0.270 | 1481. | 2.3 | | | | | | | | | | | | |
| 147 | 148.2 | 7.506 | 33.762 | 5.45 | 0.25 | 26.373 | 0.274 | 1481. | 2.4 | | | | | | | | | | | | |
| 149 | 149.9 | 7.505 | 33.761 | 5.45 | 0.25 | 26.373 | 0.277 | 1482. | 2.5 | | | | | | | | | | | | |
| 151 | 151.9 | 7.504 | 33.761 | 5.46 | 0.25 | 26.373 | 0.280 | 1482. | 2.5 | | | | | | | | | | | | |
| 153 | 154.2 | 7.519 | 33.773 | 5.46 | 0.24 | 26.380 | 0.284 | 1482. | 2.5 | | | | | | | | | | | | |
| 155 | 155.9 | 7.562 | 33.793 | 5.45 | 0.24 | 26.390 | 0.287 | 1482. | 2.6 | | | | | | | | | | | | |
| 157 | 158.1 | 7.589 | 33.806 | 5.44 | 0.24 | 26.396 | 0.290 | 1482. | 2.6 | | | | | | | | | | | | |
| 159 | 160.0 | 7.589 | 33.810 | 5.44 | 0.25 | 26.399 | 0.294 | 1482. | 2.3 | | | | | | | | | | | | |
| 160 | 161.8 | 7.588 | 33.811 | 5.44 | 0.26 | 26.400 | 0.297 | 1482. | 1.9 | | | | | | | | | | | | |
| 163 | 164.2 | 7.588 | 33.812 | 5.44 | 0.27 | 26.401 | 0.301 | 1482. | 1.5 | | | | | | | | | | | | |
| 165 | 165.9 | 7.591 | 33.814 | 5.43 | 0.26 | 26.402 | 0.303 | 1482. | 1.3 | | | | | | | | | | | | |
| 167 | 168.0 | 7.586 | 33.813 | 5.43 | 0.25 | 26.402 | 0.307 | 1482. | 1.4 | | | | | | | | | | | | |
| 169 | 170.1 | 7.577 | 33.812 | 5.44 | 0.23 | 26.403 | 0.310 | 1482. | 1.6 | | | | | | | | | | | | |
| 170 | 171.9 | 7.568 | 33.812 | 5.45 | 0.23 | 26.404 | 0.313 | 1482. | 1.8 | | | | | | | | | | | | |
| 173 | 174.0 | 7.562 | 33.814 | 5.45 | 0.23 | 26.407 | 0.316 | 1482. | 2.0 | | | | | | | | | | | | |
| 174 | 175.9 | 7.563 | 33.820 | 5.46 | 0.23 | 26.411 | 0.320 | 1482. | 2.5 | | | | | | | | | | | | |
| 177 | 178.1 | 7.575 | 33.828 | 5.45 | 0.25 | 26.415 | 0.323 | 1482. | 2.7 | | | | | | | | | | | | |
| 178 | 179.7 | 7.579 | 33.829 | 5.44 | 0.25 | 26.415 | 0.326 | 1482. | 2.8 | | | | | | | | | | | | |
| 181 | 182.2 | 7.596 | 33.841 | 5.41 | 0.28 | 26.423 | 0.330 | 1482. | 2.8 | | | | | | | | | | | | |
| 183 | 184.1 | 7.648 | 33.870 | 5.37 | 0.32 | 26.438 | 0.333 | 1483. | 2.8 | | | | | | | | | | | | |
| 184 | 185.9 | 7.666 | 33.874 | 5.33 | 0.33 | 26.439 | 0.336 | 1483. | 2.7 | | | | | | | | | | | | |
| 187 | 188.3 | 7.684 | 33.881 | 5.29 | 0.34 | 26.441 | 0.340 | 1483. | 2.5 | | | | | | | | | | | | |
| 188 | 189.2 | 7.683 | 33.881 | 5.27 | 0.35 | 26.442 | 0.341 | 1483. | 2.0 | | | | | | | | | | | | |
| 188 | 190.0 | 7.688 | 33.882 | 5.26 | 0.35 | 26.442 | 0.342 | 1483. | 1.2 | | | | | | | | | | | | |
| 189 | 191.1 | 7.690 | 33.882 | 5.25 | 0.35 | 26.442 | 0.344 | 1483. | 1.2 | | | | | | | | | | | | |
| 190 | 191.9 | 7.691 | 33.882 | 5.25 | 0.35 | 26.442 | 0.346 | 1483. | 1.0 | | | | | | | | | | | | |
| 191 | 193.1 | 7.695 | 33.885 | 5.26 | 0.35 | 26.443 | 0.347 | 1483. | 0.9 | | | | | | | | | | | | |
| 192 | 193.9 | 7.696 | 33.886 | 5.27 | 0.35 | 26.443 | 0.349 | 1483. | 0.9 | | | | | | | | | | | | |

| SHIP OC | CRUISE 181 | STATION 46 | DATE 08 FEB 1987 | EST 0912 | LATITUDE 42°34.3'N | LONGITUDE 68°59.0'W | DEPTH 205 | | | | | | | | | | | | | | |
|------------|---------------|---------------|---------------------|-------------|------------------------|----------------------------|--|--------------|----------|--|--|--|--|--|--|--|--|--|--|--|--|
| DEPTH m | PRESS dbar | TEMP °C | SALIN psu | OXY ml/l | ATN m ⁻¹ | SIGT gm/cm ³ | DYHT A 10m ² /s ² | S SPD m/s | N cph | | | | | | | | | | | | |
| 193 | 195.1 | 7.698 | 33.886 | 5.28 | 0.36 | 26.443 | 0.351 | 1483. | 0.8 | | | | | | | | | | | | |
| 194 | 196.0 | 7.698 | 33.886 | 5.11 | 0.36 | 26.443 | 0.352 | 1483. | 0.8 | | | | | | | | | | | | |
| 195 | 197.1 | 7.699 | 33.886 | 4.97 | 0.36 | 26.443 | 0.354 | 1483. | 0.8 | | | | | | | | | | | | |
| 196 | 197.9 | 7.699 | 33.886 | 4.98 | 0.36 | 26.443 | 0.355 | 1483. | 0.8 | | | | | | | | | | | | |
| 198 | 199.2 | 7.699 | 33.886 | 5.12 | 0.38 | 26.443 | 0.357 | 1483. | 0.8 | | | | | | | | | | | | |

| SHIP OC | CRUISE 181 | STATION 47 | DATE 08 FEB 1987 | EST 1036 | LATITUDE 42°35.4'N | LONGITUDE 68°45.1'W | DEPTH 195 | | | | | | | | | |
|------------|---------------|---------------|---------------------|-------------|--------------------------------------|----------------------------|--|--------------|----------|--|--|--|--|--|--|--|
| DEPTH m | PRESS dbar | TEMP °C | SALIN psu | OXY ml/l | ATN ⁻¹ m ⁻¹ | SIGT gm/cm ³ | DYHT A 10m ² /s ² | S SPD m/s | N cph | | | | | | | |
| 3 | 2.6 | 4.808 | 32.829 | 7.60 | 0.12 | 25.976 | 0.000 | 1467. | 1.9 | | | | | | | |
| 4 | 3.9 | 4.806 | 32.829 | 7.78 | 0.12 | 25.976 | 0.002 | 1467. | 1.9 | | | | | | | |
| 6 | 6.1 | 4.805 | 32.829 | 7.64 | 0.12 | 25.976 | 0.007 | 1467. | 1.9 | | | | | | | |
| 8 | 7.9 | 4.805 | 32.829 | 7.78 | 0.12 | 25.976 | 0.011 | 1467. | 1.9 | | | | | | | |
| 10 | 10.2 | 4.816 | 32.835 | 7.78 | 0.12 | 25.979 | 0.015 | 1467. | 1.9 | | | | | | | |
| 12 | 11.9 | 4.835 | 32.843 | 7.63 | 0.12 | 25.983 | 0.019 | 1467. | 2.4 | | | | | | | |
| 14 | 14.1 | 4.841 | 32.844 | 7.36 | 0.12 | 25.984 | 0.023 | 1468. | 2.8 | | | | | | | |
| 16 | 15.9 | 4.857 | 32.851 | 7.36 | 0.12 | 25.988 | 0.027 | 1468. | 3.1 | | | | | | | |
| 18 | 18.0 | 4.894 | 32.865 | 7.33 | 0.12 | 25.995 | 0.031 | 1468. | 3.4 | | | | | | | |
| 20 | 20.0 | 4.950 | 32.890 | 7.30 | 0.11 | 26.008 | 0.035 | 1468. | 3.6 | | | | | | | |
| 22 | 22.1 | 5.072 | 32.921 | 7.15 | 0.10 | 26.019 | 0.039 | 1469. | 3.7 | | | | | | | |
| 24 | 24.0 | 5.111 | 32.927 | 7.14 | 0.10 | 26.020 | 0.043 | 1469. | 3.9 | | | | | | | |
| 26 | 26.0 | 5.252 | 32.973 | 7.09 | 0.09 | 26.040 | 0.047 | 1470. | 4.0 | | | | | | | |
| 28 | 27.9 | 5.331 | 32.988 | 7.07 | 0.09 | 26.043 | 0.051 | 1470. | 4.0 | | | | | | | |
| 30 | 30.0 | 5.434 | 33.010 | 7.03 | 0.08 | 26.049 | 0.055 | 1470. | 4.3 | | | | | | | |
| 32 | 32.0 | 5.577 | 33.060 | 6.98 | 0.08 | 26.071 | 0.058 | 1471. | 4.4 | | | | | | | |
| 34 | 34.0 | 5.675 | 33.087 | 6.94 | 0.07 | 26.081 | 0.062 | 1472. | 4.3 | | | | | | | |
| 36 | 36.0 | 5.737 | 33.108 | 6.93 | 0.07 | 26.090 | 0.066 | 1472. | 4.3 | | | | | | | |
| 38 | 38.0 | 5.866 | 33.157 | 6.88 | 0.07 | 26.113 | 0.070 | 1472. | 4.0 | | | | | | | |
| 40 | 40.1 | 5.911 | 33.168 | 6.86 | 0.07 | 26.117 | 0.074 | 1473. | 3.6 | | | | | | | |
| 42 | 42.0 | 5.933 | 33.185 | 6.84 | 0.07 | 26.127 | 0.078 | 1473. | 3.2 | | | | | | | |
| 44 | 44.1 | 5.962 | 33.191 | 6.81 | 0.06 | 26.128 | 0.082 | 1473. | 2.9 | | | | | | | |
| 46 | 45.9 | 5.970 | 33.195 | 6.80 | 0.06 | 26.130 | 0.085 | 1473. | 2.6 | | | | | | | |
| 48 | 48.1 | 5.968 | 33.197 | 6.80 | 0.06 | 26.132 | 0.089 | 1473. | 2.7 | | | | | | | |
| 50 | 49.9 | 5.984 | 33.200 | 6.79 | 0.06 | 26.133 | 0.093 | 1473. | 2.8 | | | | | | | |
| 52 | 52.1 | 6.085 | 33.234 | 6.75 | 0.06 | 26.147 | 0.096 | 1474. | 3.0 | | | | | | | |
| 54 | 54.0 | 6.245 | 33.266 | 6.69 | 0.06 | 26.152 | 0.100 | 1474. | 3.1 | | | | | | | |
| 56 | 56.0 | 6.387 | 33.295 | 6.64 | 0.07 | 26.156 | 0.104 | 1475. | 3.2 | | | | | | | |
| 58 | 58.0 | 6.442 | 33.316 | 6.59 | 0.08 | 26.166 | 0.107 | 1475. | 3.1 | | | | | | | |
| 59 | 59.9 | 6.486 | 33.329 | 6.55 | 0.08 | 26.171 | 0.111 | 1476. | 2.9 | | | | | | | |
| 62 | 62.1 | 6.484 | 33.335 | 6.53 | 0.09 | 26.176 | 0.115 | 1476. | 2.8 | | | | | | | |
| 63 | 63.9 | 6.480 | 33.339 | 6.52 | 0.09 | 26.180 | 0.118 | 1476. | 2.8 | | | | | | | |
| 65 | 66.0 | 6.473 | 33.343 | 6.52 | 0.09 | 26.183 | 0.122 | 1476. | 2.7 | | | | | | | |
| 67 | 68.0 | 6.441 | 33.343 | 6.53 | 0.09 | 26.188 | 0.126 | 1476. | 2.8 | | | | | | | |
| 69 | 69.9 | 6.455 | 33.353 | 6.52 | 0.09 | 26.194 | 0.129 | 1476. | 2.9 | | | | | | | |
| 72 | 72.2 | 6.504 | 33.366 | 6.50 | 0.09 | 26.198 | 0.134 | 1476. | 2.9 | | | | | | | |
| 73 | 73.9 | 6.559 | 33.385 | 6.48 | 0.09 | 26.205 | 0.137 | 1476. | 3.1 | | | | | | | |
| 75 | 76.0 | 6.638 | 33.404 | 6.45 | 0.10 | 26.211 | 0.140 | 1476. | 3.1 | | | | | | | |
| 77 | 78.0 | 6.681 | 33.420 | 6.43 | 0.10 | 26.217 | 0.144 | 1477. | 3.1 | | | | | | | |
| 79 | 80.1 | 6.766 | 33.443 | 6.39 | 0.10 | 26.224 | 0.148 | 1477. | 3.1 | | | | | | | |
| 81 | 81.9 | 6.866 | 33.473 | 6.34 | 0.11 | 26.234 | 0.151 | 1478. | 3.0 | | | | | | | |
| 83 | 84.2 | 6.923 | 33.486 | 6.31 | 0.11 | 26.237 | 0.155 | 1478. | 2.8 | | | | | | | |
| 85 | 85.7 | 6.948 | 33.493 | 6.29 | 0.11 | 26.239 | 0.158 | 1478. | 2.7 | | | | | | | |
| 87 | 88.2 | 6.995 | 33.510 | 6.26 | 0.12 | 26.246 | 0.162 | 1478. | 2.5 | | | | | | | |
| 89 | 89.7 | 7.012 | 33.517 | 6.24 | 0.12 | 26.249 | 0.165 | 1478. | 2.4 | | | | | | | |
| 91 | 92.0 | 7.033 | 33.522 | 6.23 | 0.12 | 26.251 | 0.169 | 1478. | 2.5 | | | | | | | |
| 93 | 93.9 | 7.060 | 33.534 | 6.22 | 0.12 | 26.256 | 0.172 | 1479. | 2.6 | | | | | | | |
| 95 | 96.0 | 7.068 | 33.537 | 6.19 | 0.13 | 26.258 | 0.176 | 1479. | 2.6 | | | | | | | |
| 97 | 98.0 | 7.055 | 33.543 | 6.17 | 0.15 | 26.264 | 0.180 | 1479. | 2.6 | | | | | | | |
| 99 | 100.1 | 7.092 | 33.561 | 6.14 | 0.16 | 26.273 | 0.183 | 1479. | 2.5 | | | | | | | |

| SHIP OC | CRUISE 181 | STATION 47 | DATE 08 FEB 1987 | EST 1036 | LATITUDE 42°35.4'N | LONGITUDE 68°45.1'W | DEPTH 195 | | | | | | | | | | | | |
|------------|---------------|---------------|---------------------|-------------|--------------------------------------|----------------------------|--|--------------|----------|------------|---------------|------------|--------------|-------------|--------------------------------------|----------------------------|--|--------------|----------|
| DEPTH m | PRESS dbar | TEMP °C | SALIN psu | OXY ml/l | ATN ⁻¹ m ⁻¹ | SIGT gm/cm ³ | DYHT A 10m ² /s ² | S SPD m/s | N cph | DEPTH m | PRESS dbar | TEMP °C | SALIN psu | OXY ml/l | ATN ⁻¹ m ⁻¹ | SIGT gm/cm ³ | DYHT A 10m ² /s ² | S SPD m/s | N cph |
| 101 | 102.1 | 7.113 | 33.568 | 6.12 | 0.16 | 26.276 | 0.187 | 1479. | 2.3 | 101 | 102.1 | 7.113 | 33.568 | 6.12 | 0.16 | 26.276 | 0.187 | 1479. | 2.3 |
| 103 | 103.9 | 7.126 | 33.574 | 6.09 | 0.16 | 26.278 | 0.190 | 1479. | 2.2 | 103 | 103.9 | 7.126 | 33.574 | 6.09 | 0.16 | 26.278 | 0.190 | 1479. | 2.2 |
| 105 | 106.1 | 7.142 | 33.578 | 6.07 | 0.16 | 26.280 | 0.194 | 1479. | 2.0 | 105 | 106.1 | 7.142 | 33.578 | 6.07 | 0.16 | 26.280 | 0.194 | 1479. | 2.0 |
| 107 | 108.1 | 7.145 | 33.579 | 6.06 | 0.16 | 26.280 | 0.197 | 1479. | 2.0 | 107 | 108.1 | 7.145 | 33.579 | 6.06 | 0.16 | 26.280 | 0.197 | 1479. | 2.0 |
| 109 | 109.9 | 7.150 | 33.582 | 6.05 | 0.16 | 26.281 | 0.200 | 1479. | 2.2 | 109 | 109.9 | 7.150 | 33.582 | 6.05 | 0.16 | 26.281 | 0.200 | 1479. | 2.2 |
| 111 | 112.1 | 7.170 | 33.590 | 6.03 | 0.16 | 26.285 | 0.204 | 1479. | 2.4 | 111 | 112.1 | 7.170 | 33.590 | 6.03 | 0.16 | 26.285 | 0.204 | 1479. | 2.4 |
| 113 | 113.7 | 7.195 | 33.600 | 6.02 | 0.16 | 26.290 | 0.207 | 1480. | 2.6 | 113 | 113.7 | 7.195 | 33.600 | 6.02 | 0.16 | 26.290 | 0.207 | 1480. | 2.6 |
| 115 | 116.0 | 7.242 | 33.619 | 6.00 | 0.16 | 26.298 | 0.211 | 1480. | 2.7 | 115 | 116.0 | 7.242 | 33.619 | 6.00 | 0.16 | 26.298 | 0.211 | 1480. | 2.7 |
| 117 | 117.8 | 7.266 | 33.628 | 5.80 | 0.16 | 26.302 | 0.214 | 1480. | 2.7 | 117 | 117.8 | 7.266 | 33.628 | 5.80 | 0.16 | 26.302 | 0.214 | 1480. | 2.7 |
| 119 | 120.0 | 7.288 | 33.638 | 5.63 | 0.16 | 26.306 | 0.218 | 1480. | 2.5 | 119 | 120.0 | 7.288 | 33.638 | 5.63 | 0.16 | 26.306 | 0.218 | 1480. | 2.5 |
| 121 | 122.0 | 7.305 | 33.647 | 5.62 | 0.17 | 26.311 | 0.221 | 1480. | 2.2 | 121 | 122.0 | 7.305 | 33.647 | 5.62 | 0.17 | 26.311 | 0.221 | 1480. | 2.2 |
| 123 | 124.0 | 7.337 | 33.658 | 5.61 | 0.17 | 26.315 | 0.225 | 1480. | 2.1 | 123 | 124.0 | 7.337 | 33.658 | 5.61 | 0.17 | 26.315 | 0.225 | 1480. | 2.1 |
| 125 | 126.0 | 7.346 | 33.659 | 5.60 | 0.17 | 26.315 | 0.228 | 1480. | 2.1 | 125 | 126.0 | 7.346 | 33.659 | 5.60 | 0.17 | 26.315 | 0.228 | 1480. | 2.1 |
| 127 | 128.0 | 7.353 | 33.661 | 5.60 | 0.17 | 26.315 | 0.232 | 1480. | 2.1 | 127 | 128.0 | 7.353 | 33.661 | 5.60 | 0.17 | 26.315 | 0.232 | 1480. | 2.1 |
| 129 | 130.1 | 7.362 | 33.664 | 5.60 | 0.18 | 26.317 | 0.235 | 1481. | 2.2 | 129 | 130.1 | 7.362 | 33.664 | 5.60 | 0.18 | 26.317 | 0.235 | 1481. | 2.2 |
| 131 | 132.0 | 7.393 | 33.680 | 5.60 | 0.17 | 26.325 | 0.238 | 1481. | 2.3 | 131 | 132.0 | 7.393 | 33.680 | 5.60 | 0.17 | 26.325 | 0.238 | 1481. | 2.3 |
| 133 | 134.0 | 7.414 | 33.686 | 5.60 | 0.17 | 26.327 | 0.242 | 1481. | 2.5 | 133 | 134.0 | 7.414 | 33.686 | 5.60 | 0.17 | 26.327 | 0.242 | 1481. | 2.5 |
| 135 | 136.0 | 7.435 | 33.697 | 5.60 | 0.17 | 26.332 | 0.245 | 1481. | 2.6 | 135 | 136.0 | 7.435 | 33.697 | 5.60 | 0.17 | 26.332 | 0.245 | 1481. | 2.6 |
| 137 | 138.0 | 7.459 | 33.708 | 5.60 | 0.16 | 26.338 | 0.249 | 1481. | 2.6 | 137 | 138.0 | 7.459 | 33.708 | 5.60 | 0.16 | 26.338 | 0.249 | 1481. | 2.6 |
| 139 | 140.1 | 7.469 | 33.712 | 5.61 | 0.16 | 26.340 | 0.252 | 1481. | 2.6 | 139 | 140.1 | 7.469 | 33.712 | 5.61 | 0.16 | 26.340 | 0.252 | 1481. | 2.6 |
| 141 | 141.9 | 7.485 | 33.721 | 5.61 | 0.16 | 26.344 | 0.255 | 1481. | 2.7 | 141 | 141.9 | 7.485 | 33.721 | 5.61 | 0.16 | 26.344 | 0.255 | 1481. | 2.7 |
| 143 | 144.1 | 7.513 | 33.734 | 5.60 | 0.15 | 26.350 | 0.259 | 1481. | 2.8 | 143 | 144.1 | 7.513 | 33.734 | 5.60 | 0.15 | 26.350 | 0.259 | 1481. | 2.8 |
| 145 | 145.9 | 7.526 | 33.737 | 5.59 | 0.15 | 26.351 | 0.262 | 1481. | 2.9 | 145 | 145.9 | 7.526 | 33.737 | 5.59 | 0.15 | 26.351 | 0.262 | 1481. | 2.9 |
| 147 | 148.1 | 7.564 | 33.755 | 5.57 | 0.14 | 26.359 | 0.266 | 1482. | 2.9 | 147 | 148.1 | 7.564 | 33.755 | 5.57 | 0.14 | 26.359 | 0.266 | 1482. | 2.9 |
| 149 | 149.9 | 7.563 | 33.761 | 5.57 | 0.14 | 26.364 | 0.269 | 1482. | 2.9 | 149 | 149.9 | 7.563 | 33.761 | 5.57 | 0.14 | 26.364 | 0.269 | 1482. | 2.9 |
| 151 | 152.2 | 7.528 | 33.767 | 5.58 | 0.14 | 26.374 | 0.273 | 1482. | 2.8 | 151 | 152.2 | 7.528 | 33.767 | 5.58 | 0.14 | 26.374 | 0.273 | 1482. | 2.8 |
| 153 | 153.9 | 7.531 | 33.771 | 5.56 | 0.14 | 26.377 | 0.276 | 1482. | 2.8 | 153 | 153.9 | 7.531 | 33.771 | 5.56 | 0.14 | 26.377 | 0.276 | 1482. | 2.8 |
| 155 | 156.0 | 7.538 | 33.777 | 5.54 | 0.14 | 26.381 | 0.279 | 1482. | 2.5 | 155 | 156.0 | 7.538 | 33.777 | 5.54 | 0.14 | 26.381 | 0.279 | 1482. | 2.5 |
| 157 | 157.9 | 7.536 | 33.781 | 5.53 | 0.14 | 26.384 | 0.282 | 1482. | 2.4 | 157 | 157.9 | 7.536 | 33.781 | 5.53 | 0.14 | 26.384 | 0.282 | 1482. | 2.4 |
| 159 | 160.0 | 7.534 | 33.785 | 5.53 | 0.14 | 26.387 | 0.286 | 1482. | 2.7 | 159 | 160.0 | 7.534 | 33.785 | 5.53 | 0.14 | 26.387 | 0.286 | 1482. | 2.7 |
| 161 | 161.9 | 7.529 | 33.787 | 5.52 | 0.14 | 26.390 | 0.289 | 1482. | 3.2 | 161 | 161.9 | 7.529 | 33.787 | 5.52 | 0.14 | 26.390 | 0.289 | 1482. | 3.2 |
| 163 | 163.9 | 7.530 | 33.791 | 5.51 | 0.14 | 26.392 | 0.292 | 1482. | 3.7 | 163 | 163.9 | 7.530 | 33.791 | 5.51 | 0.14 | 26.392 | 0.292 | 1482. | 3.7 |
| 165 | 166.0 | 7.534 | 33.799 | 5.51 | 0.14 | 26.398 | 0.295 | | | | | | | | | | | | |

| SHIP OC | CRUISE 181 | STATION 48 | DATE 08 FEB 1987 | EST 1407 | LATITUDE 42°35.2'N | LONGITUDE 68°30.4'W | DEPTH 221 | | | | | | | | | | | | | | |
|------------|---------------|---------------|---------------------|-------------|------------------------|----------------------------|--|--------------|----------|--|--|--|--|--|--|--|--|--|--|--|--|
| DEPTH m | PRESS dbar | TEMP °C | SALIN psu | OXY ml/l | ATN m ⁻¹ | SIGT gm/cm ³ | DYHT A 10m ² /s ² | S SPD m/s | N cph | | | | | | | | | | | | |
| 3 | 2.6 | 4.187 | 32.303 | 8.27 | 0.14 | 25.623 | 0.000 | 1464. | 7.0 | | | | | | | | | | | | |
| 4 | 4.1 | 4.184 | 32.303 | 8.27 | 0.13 | 25.623 | 0.004 | 1464. | 7.0 | | | | | | | | | | | | |
| 6 | 6.0 | 4.179 | 32.303 | 8.28 | 0.14 | 25.624 | 0.008 | 1464. | 7.0 | | | | | | | | | | | | |
| 8 | 8.0 | 4.147 | 32.312 | 8.27 | 0.15 | 25.634 | 0.013 | 1464. | 7.0 | | | | | | | | | | | | |
| 10 | 10.0 | 4.169 | 32.371 | 8.24 | 0.15 | 25.679 | 0.017 | 1464. | 7.0 | | | | | | | | | | | | |
| 12 | 12.0 | 4.275 | 32.452 | 8.17 | 0.16 | 25.733 | 0.022 | 1465. | 7.9 | | | | | | | | | | | | |
| 14 | 14.1 | 4.364 | 32.498 | 8.13 | 0.16 | 25.759 | 0.027 | 1465. | 8.6 | | | | | | | | | | | | |
| 16 | 15.8 | 4.430 | 32.540 | 8.08 | 0.16 | 25.787 | 0.030 | 1466. | 8.8 | | | | | | | | | | | | |
| 18 | 18.1 | 4.641 | 32.664 | 7.96 | 0.13 | 25.863 | 0.035 | 1467. | 8.7 | | | | | | | | | | | | |
| 20 | 20.0 | 4.855 | 32.794 | 7.87 | 0.13 | 25.943 | 0.039 | 1468. | 8.3 | | | | | | | | | | | | |
| 22 | 22.0 | 5.100 | 32.884 | 7.73 | 0.12 | 25.987 | 0.043 | 1469. | 7.9 | | | | | | | | | | | | |
| 24 | 24.0 | 5.234 | 32.935 | 7.67 | 0.12 | 26.012 | 0.047 | 1469. | 7.4 | | | | | | | | | | | | |
| 26 | 26.0 | 5.344 | 32.980 | 7.60 | 0.12 | 26.035 | 0.051 | 1470. | 6.5 | | | | | | | | | | | | |
| 28 | 28.0 | 5.387 | 32.999 | 7.57 | 0.12 | 26.046 | 0.055 | 1470. | 5.7 | | | | | | | | | | | | |
| 30 | 29.8 | 5.406 | 33.015 | 7.56 | 0.11 | 26.056 | 0.059 | 1470. | 5.2 | | | | | | | | | | | | |
| 32 | 32.1 | 5.499 | 33.082 | 7.52 | 0.11 | 26.098 | 0.063 | 1471. | 4.9 | | | | | | | | | | | | |
| 34 | 34.1 | 5.588 | 33.109 | 7.47 | 0.11 | 26.108 | 0.067 | 1471. | 4.6 | | | | | | | | | | | | |
| 36 | 35.9 | 5.631 | 33.125 | 7.43 | 0.11 | 26.116 | 0.071 | 1471. | 4.3 | | | | | | | | | | | | |
| 38 | 38.1 | 5.651 | 33.130 | 7.42 | 0.11 | 26.118 | 0.075 | 1472. | 3.8 | | | | | | | | | | | | |
| 40 | 40.0 | 5.689 | 33.149 | 7.41 | 0.11 | 26.128 | 0.078 | 1472. | 3.2 | | | | | | | | | | | | |
| 42 | 42.1 | 5.741 | 33.166 | 7.38 | 0.11 | 26.136 | 0.082 | 1472. | 3.0 | | | | | | | | | | | | |
| 43 | 43.8 | 5.768 | 33.175 | 7.38 | 0.11 | 26.139 | 0.085 | 1472. | 2.9 | | | | | | | | | | | | |
| 46 | 46.0 | 5.794 | 33.185 | 7.36 | 0.11 | 26.144 | 0.089 | 1472. | 2.7 | | | | | | | | | | | | |
| 48 | 48.2 | 5.827 | 33.198 | 7.34 | 0.10 | 26.151 | 0.094 | 1473. | 2.3 | | | | | | | | | | | | |
| 50 | 50.0 | 5.855 | 33.205 | 7.32 | 0.10 | 26.152 | 0.097 | 1473. | 2.0 | | | | | | | | | | | | |
| 51 | 51.9 | 5.881 | 33.212 | 7.31 | 0.10 | 26.155 | 0.100 | 1473. | 1.7 | | | | | | | | | | | | |
| 53 | 53.9 | 5.903 | 33.216 | 7.30 | 0.10 | 26.155 | 0.104 | 1473. | 1.4 | | | | | | | | | | | | |
| 56 | 56.1 | 5.909 | 33.217 | 7.28 | 0.10 | 26.156 | 0.108 | 1473. | 0.9 | | | | | | | | | | | | |
| 58 | 58.0 | 5.925 | 33.220 | 7.26 | 0.10 | 26.156 | 0.112 | 1473. | 0.7 | | | | | | | | | | | | |
| 59 | 59.8 | 5.934 | 33.222 | 7.24 | 0.11 | 26.156 | 0.115 | 1473. | 0.5 | | | | | | | | | | | | |
| 62 | 62.0 | 5.940 | 33.223 | 7.22 | 0.10 | 26.156 | 0.119 | 1473. | 0.5 | | | | | | | | | | | | |
| 64 | 64.0 | 5.945 | 33.224 | 7.20 | 0.10 | 26.156 | 0.123 | 1473. | 0.5 | | | | | | | | | | | | |
| 65 | 65.8 | 5.950 | 33.224 | 7.19 | 0.10 | 26.156 | 0.126 | 1473. | 0.5 | | | | | | | | | | | | |
| 68 | 68.2 | 5.955 | 33.225 | 7.18 | 0.10 | 26.156 | 0.131 | 1473. | 0.6 | | | | | | | | | | | | |
| 69 | 69.8 | 5.958 | 33.226 | 7.15 | 0.10 | 26.157 | 0.134 | 1473. | 0.7 | | | | | | | | | | | | |
| 71 | 72.0 | 5.962 | 33.227 | 6.98 | 0.10 | 26.157 | 0.138 | 1474. | 0.7 | | | | | | | | | | | | |
| 73 | 74.0 | 5.970 | 33.229 | 6.80 | 0.10 | 26.157 | 0.141 | 1474. | 0.8 | | | | | | | | | | | | |
| 75 | 76.1 | 5.976 | 33.231 | 6.79 | 0.10 | 26.158 | 0.145 | 1474. | 0.7 | | | | | | | | | | | | |
| 77 | 78.0 | 5.980 | 33.231 | 6.80 | 0.10 | 26.158 | 0.149 | 1474. | 0.8 | | | | | | | | | | | | |
| 79 | 80.0 | 5.982 | 33.233 | 6.80 | 0.10 | 26.158 | 0.153 | 1474. | 1.0 | | | | | | | | | | | | |
| 81 | 81.9 | 5.983 | 33.232 | 6.82 | 0.10 | 26.158 | 0.156 | 1474. | 1.2 | | | | | | | | | | | | |
| 83 | 84.1 | 5.986 | 33.233 | 6.84 | 0.10 | 26.159 | 0.160 | 1474. | 1.4 | | | | | | | | | | | | |
| 85 | 86.1 | 5.989 | 33.235 | 6.86 | 0.10 | 26.160 | 0.164 | 1474. | 1.6 | | | | | | | | | | | | |
| 87 | 87.8 | 6.014 | 33.244 | 6.86 | 0.10 | 26.164 | 0.167 | 1474. | 1.8 | | | | | | | | | | | | |
| 89 | 89.9 | 6.050 | 33.252 | 6.84 | 0.10 | 26.166 | 0.171 | 1474. | 2.2 | | | | | | | | | | | | |
| 91 | 92.2 | 6.081 | 33.261 | 6.80 | 0.10 | 26.169 | 0.175 | 1474. | 3.0 | | | | | | | | | | | | |
| 93 | 94.0 | 6.092 | 33.265 | 6.77 | 0.10 | 26.170 | 0.178 | 1474. | 3.5 | | | | | | | | | | | | |
| 95 | 95.9 | 6.117 | 33.271 | 6.74 | 0.10 | 26.172 | 0.182 | 1475. | 3.9 | | | | | | | | | | | | |
| 97 | 98.0 | 6.213 | 33.307 | 6.68 | 0.10 | 26.188 | 0.186 | 1475. | 4.1 | | | | | | | | | | | | |
| 99 | 100.0 | 6.477 | 33.390 | 6.54 | 0.11 | 26.220 | 0.190 | 1476. | 4.3 | | | | | | | | | | | | |

| SHIP OC | CRUISE 181 | STATION 48 | DATE 08 FEB 1987 | EST 1407 | LATITUDE 42°35.2'N | LONGITUDE 68°30.4'W | DEPTH 221 | | | | | | | | | | | | | | |
|------------|---------------|---------------|---------------------|-------------|------------------------|----------------------------|--|--------------|----------|--|--|--|--|--|--|--|--|--|--|--|--|
| DEPTH m | PRESS dbar | TEMP °C | SALIN psu | OXY ml/l | ATN m ⁻¹ | SIGT gm/cm ³ | DYHT A 10m ² /s ² | S SPD m/s | N cph | | | | | | | | | | | | |
| 101 | 101.9 | 6.628 | 33.416 | 6.40 | 0.11 | 26.221 | 0.193 | 1477. | 4.3 | | | | | | | | | | | | |
| 103 | 104.1 | 6.818 | 33.473 | 6.25 | 0.12 | 26.240 | 0.197 | 1478. | 4.2 | | | | | | | | | | | | |
| 105 | 105.8 | 6.911 | 33.486 | 6.18 | 0.13 | 26.238 | 0.200 | 1478. | 3.9 | | | | | | | | | | | | |
| 107 | 108.0 | 7.059 | 33.530 | 6.09 | 0.15 | 26.253 | 0.204 | 1479. | 3.7 | | | | | | | | | | | | |
| 109 | 110.1 | 7.125 | 33.551 | 6.05 | 0.16 | 26.261 | 0.207 | 1479. | 3.7 | | | | | | | | | | | | |
| 111 | 112.1 | 7.119 | 33.564 | 6.04 | 0.15 | 26.272 | 0.211 | 1479. | 3.6 | | | | | | | | | | | | |
| 113 | 113.9 | 7.102 | 33.570 | 5.82 | 0.15 | 26.279 | 0.214 | 1479. | 3.6 | | | | | | | | | | | | |
| 115 | 116.1 | 7.130 | 33.592 | 5.67 | 0.15 | 26.292 | 0.218 | 1479. | 3.3 | | | | | | | | | | | | |
| 117 | 117.9 | 7.146 | 33.596 | 5.67 | 0.15 | 26.293 | 0.221 | 1479. | 3.2 | | | | | | | | | | | | |
| 119 | 120.2 | 7.196 | 33.613 | 5.68 | 0.15 | 26.300 | 0.225 | 1480. | 3.0 | | | | | | | | | | | | |
| 121 | 121.9 | 7.248 | 33.629 | 5.67 | 0.15 | 26.305 | 0.228 | 1480. | 2.7 | | | | | | | | | | | | |
| 123 | 123.6 | 7.265 | 33.633 | 5.69 | 0.16 | 26.306 | 0.231 | 1480. | 2.6 | | | | | | | | | | | | |
| 126 | 126.8 | 7.326 | 33.658 | 5.70 | 0.16 | 26.317 | 0.237 | 1480. | 2.6 | | | | | | | | | | | | |
| 127 | 127.9 | 7.340 | 33.661 | 5.71 | 0.16 | 26.317 | 0.238 | 1480. | 2.7 | | | | | | | | | | | | |
| 129 | 130.1 | 7.357 | 33.667 | 5.70 | 0.16 | 26.319 | 0.242 | 1480. | 2.9 | | | | | | | | | | | | |
| 131 | 132.0 | 7.401 | 33.685 | 5.67 | 0.16 | 26.327 | 0.245 | 1481. | 3.1 | | | | | | | | | | | | |
| 133 | 134.1 | 7.433 | 33.692 | 5.65 | 0.16 | 26.329 | 0.249 | 1481. | 3.2 | | | | | | | | | | | | |
| 135 | 136.0 | 7.485 | 33.715 | 5.62 | 0.16 | 26.340 | 0.252 | 1481. | 3.3 | | | | | | | | | | | | |
| 137 | 138.0 | 7.526 | 33.737 | 5.59 | 0.16 | 26.351 | 0.256 | 1481. | 3.4 | | | | | | | | | | | | |
| 139 | 139.9 | 7.550 | 33.750 | 5.58 | 0.16 | 26.358 | 0.259 | 1482. | 3.6 | | | | | | | | | | | | |
| 141 | 142.0 | 7.565 | 33.760 | 5.58 | 0.17 | 26.364 | 0.262 | 1482. | 3.8 | | | | | | | | | | | | |
| 143 | 144.0 | 7.572 | 33.768 | 5.58 | 0.17 | 26.369 | 0.266 | 1482. | 3.7 | | | | | | | | | | | | |
| 145 | 146.0 | 7.609 | 33.784 | 5.56 | 0.17 | 26.376 | 0.269 | 1482. | 3.9 | | | | | | | | | | | | |
| 147 | 148.0 | 7.660 | 33.821 | 5.53 | 0.17 | 26.397 | 0.272 | 1482. | 4.0 | | | | | | | | | | | | |
| 149 | 149.9 | 7.692 | 33.835 | 5.51 | 0.16 | 26.404 | 0.275 | 1482. | 4.1 | | | | | | | | | | | | |
| 151 | 152.1 | 7.710 | 33.848 | 5.49 | 0.16 | 26.412 | 0.279 | 1482. | 4.0 | | | | | | | | | | | | |
| 153 | 154.1 | 7.739 | 33.877 | 5.48 | 0.17 | 26.430 | 0.282 | 1483. | 3.8 | | | | | | | | | | | | |
| 155 | 156.0 | 7.756 | 33.887 | 5.46 | 0.17 | 26.436 | 0.285 | 1483. | 3.5 | | | | | | | | | | | | |
| 157 | 158.1 | 7.770 | 33.898 | 5.44 | 0.17 | 26.442 | 0.289 | 1483. | 3.3 | | | | | | | | | | | | |
| 159 | 160.0 | 7.773 | 33.904 | 5.44 | 0.17 | 26.447 | 0.292 | 1483. | 3.1 | | | | | | | | | | | | |
| 160 | 161.8 | 7.778 | 33.910 | 5.43 | 0.17 | 26.451 | 0.295 | 1483. | 2.8 | | | | | | | | | | | | |
| 163 | 164.1 | 7.786 | 33.918 | 5.42 | 0.17 | 26.456 | 0.298 | 1483. | 2.9 | | | | | | | | | | | | |
| 165 | 166.1 | 7.796 | 33.928 | 5.42 | 0.18 | 26.462 | 0.301 | 1483. | 3.0 | | | | | | | | | | | | |
| 167 | 168.0 | 7.802 | 33.934 | 5.41 | 0.18 | 26.466 | 0.304 | 1483. | 3.3 | | | | | | | | | | | | |
| 169 | 170.0 | 7.807 | 33.941 | 5.40 | 0.18 | 26.471 | 0.308 | 1483. | 3.7 | | | | | | | | | | | | |
| 171 | 172.2 | 7.804 | 33.956 | 5.40 | 0.19 | 26.483 | 0.311 | 1483. | 3.9 | | | | | | | | | | | | |
| 173 | 174.0 | 7.797 | 33.965 | 5.39 | 0.19 | 26.491 | 0.314 | 1483. | 3.9 | | | | | | | | | | | | |
| 174 | 175.9 | 7.665 | 33.961 | 5.42 | 0.21 | 26.507 | 0.317 | 1483. | 3.8 | | | | | | | | | | | | |
| 177 | 178.1 | 7.657 | 33.978 | 5.40 | 0.23 | 26.522 | 0.320 | 1483. | 3.6 | | | | | | | | | | | | |
| 179 | 180.1 | 7.682 | 33.991 | 5.38 | 0.23 | 26.528 | 0.323 | 1483. | 3.1 | | | | | | | | | | | | |
| 181 | 182.1 | 7.696 | 33.996 | 5.37 | 0.23 | 26.530 | 0.326 | 1483. | 2.7 | | | | | | | | | | | | |
| 183 | 184.1 | 7.698 | 33.997 | 5.37 | 0.23 | 26.530 | 0.329 | 1483. | 2.1 | | | | | | | | | | | | |
| 184 | 185.9 | 7.696 | 33.997 | 5.37 | 0.23 | 26.531 | 0.332 | 1483. | 1.7 | | | | | | | | | | | | |
| 186 | 188.1 | 7.696 | 33.998 | 5.37 | 0.23 | 26.531 | 0.335 | 1483. | 1.6 | | | | | | | | | | | | |
| 188 | 189.9 | 7.686 | 33.999 | 5.38 | 0.24 | 26.534 | 0.338 | 1483. | 1.6 | | | | | | | | | | | | |
| 190 | 191.3 | 7.680 | 34.002 | 5.38 | 0.25 | 26.537 | 0.340 | 1483. | 1.9 | | | | | | | | | | | | |
| 190 | 192.0 | 7.678 | 34.002 | 5.38 | 0.26 | 26.537 | 0.341 | 1483. | 2.5 | | | | | | | | | | | | |
| 191 | 192.9 | 7.676 | 34.003 | 5.37 | 0.26 | 26.538 | 0.343 | 1483. | 3.3 | | | | | | | | | | | | |
| 192 | 193.9 | 7.671 | 34.002 | 5.37 | 0.28 | 26.539 | 0.344 | 1483. | 3.9 | | | | | | | | | | | | |
| 193 | 195.0 | 7.675 | 34.010 | 5.37 | 0.31 | 26.544 | 0.346 | 1483. | 4.2 | | | | | | | | | | | | |

| SHIP OC | CRUISE 181 | STATION 48 | DATE 08 FEB 1987 | | EST 1407 | LATITUDE 42°35.2'N | LONGITUDE 68°30.4'W | DEPTH 221 | |
|------------|---------------|---------------|---------------------|-------------|------------------------|----------------------------|--|--------------|----------|
| DEPTH m | PRESS dbar | TEMP °C | SALIN psu | OXY ml/l | ATN m ⁻¹ | SIGT gm/cm ³ | DYHT A 10m ² /s ² | S SPD m/s | N cph |
| 194 | 196.0 | 7.700 | 34.028 | 5.37 | 0.32 | 26.555 | 0.347 | 1483. | 4.3 |
| 195 | 197.0 | 7.744 | 34.052 | 5.35 | 0.36 | 26.567 | 0.349 | 1484. | 4.2 |
| 196 | 198.0 | 7.769 | 34.063 | 5.34 | 0.37 | 26.572 | 0.350 | 1484. | 3.9 |
| 197 | 199.0 | 7.781 | 34.068 | 5.34 | 0.40 | 26.574 | 0.352 | 1484. | 3.4 |
| 198 | 200.1 | 7.791 | 34.073 | 5.32 | 0.41 | 26.576 | 0.353 | 1484. | 2.6 |
| 199 | 201.0 | 7.792 | 34.072 | 5.32 | 0.42 | 26.576 | 0.355 | 1484. | 1.7 |
| 200 | 201.9 | 7.794 | 34.073 | 5.32 | 0.42 | 26.576 | 0.356 | 1484. | 1.2 |
| 201 | 203.0 | 7.794 | 34.073 | 5.31 | 0.42 | 26.577 | 0.358 | 1484. | 0.8 |
| 202 | 204.0 | 7.794 | 34.073 | 5.32 | 0.42 | 26.576 | 0.359 | 1484. | 0.5 |
| 203 | 205.0 | 7.795 | 34.074 | 5.32 | 0.42 | 26.577 | 0.361 | 1484. | 0.6 |
| 204 | 206.0 | 7.796 | 34.074 | 5.32 | 0.42 | 26.577 | 0.362 | 1484. | 0.5 |
| 205 | 207.0 | 7.797 | 34.074 | 5.32 | 0.42 | 26.577 | 0.364 | 1484. | 0.5 |
| 206 | 208.0 | 7.797 | 34.074 | 5.32 | 0.42 | 26.577 | 0.365 | 1484. | 0.5 |
| 207 | 209.0 | 7.797 | 34.074 | 5.32 | 0.43 | 26.577 | 0.367 | 1484. | 0.3 |
| 208 | 209.9 | 7.797 | 34.074 | 5.32 | 0.42 | 26.577 | 0.368 | 1484. | -0.1 |
| 209 | 211.0 | 7.797 | 34.074 | 5.32 | 0.41 | 26.577 | 0.370 | 1484. | 0.2 |
| 210 | 212.1 | 7.797 | 34.074 | 5.33 | 0.43 | 26.577 | 0.371 | 1484. | 0.2 |
| 211 | 213.0 | 7.798 | 34.074 | 5.33 | 0.44 | 26.576 | 0.373 | 1484. | 0.2 |
| 212 | 214.0 | 7.798 | 34.074 | 5.33 | 0.45 | 26.577 | 0.374 | 1484. | 0.2 |
| 213 | 214.8 | 7.798 | 34.075 | 5.33 | 0.41 | 26.577 | 0.375 | 1484. | 0.2 |

| SHIP OC | CRUISE 181 | STATION 49 | DATE 08 FEB 1987 | | EST 1539 | LATITUDE 42°34.7'N | LONGITUDE 68°14.9'W | DEPTH 192 | |
|------------|---------------|---------------|---------------------|-------------|------------------------|----------------------------|--|--------------|----------|
| DEPTH m | PRESS dbar | TEMP °C | SALIN psu | OXY ml/l | ATN m ⁻¹ | SIGT gm/cm ³ | DYHT A 10m ² /s ² | S SPD m/s | N cph |
| 2 | 2.4 | 4.626 | 32.622 | 7.43 | 0.11 | 25.831 | 0.000 | 1466. | 7.2 |
| 4 | 3.9 | 4.624 | 32.622 | 7.45 | 0.11 | 25.831 | 0.003 | 1466. | 7.2 |
| 6 | 6.0 | 4.631 | 32.626 | 7.44 | 0.11 | 25.833 | 0.008 | 1466. | 7.2 |
| 8 | 8.0 | 4.640 | 32.629 | 7.42 | 0.11 | 25.835 | 0.012 | 1466. | 7.2 |
| 10 | 10.1 | 4.805 | 32.747 | 7.32 | 0.11 | 25.911 | 0.016 | 1467. | 7.2 |
| 12 | 11.9 | 5.025 | 32.878 | 7.24 | 0.11 | 25.990 | 0.020 | 1468. | 7.3 |
| 14 | 14.0 | 5.166 | 32.919 | 7.15 | 0.11 | 26.007 | 0.024 | 1469. | 7.0 |
| 16 | 15.8 | 5.240 | 32.951 | 7.10 | 0.10 | 26.024 | 0.028 | 1469. | 6.3 |
| 18 | 17.9 | 5.353 | 32.993 | 7.06 | 0.10 | 26.045 | 0.032 | 1470. | 5.3 |
| 20 | 20.0 | 5.423 | 33.012 | 7.03 | 0.10 | 26.051 | 0.036 | 1470. | 4.5 |
| 22 | 22.0 | 5.483 | 33.033 | 6.99 | 0.10 | 26.061 | 0.040 | 1471. | 4.3 |
| 24 | 23.9 | 5.491 | 33.036 | 6.99 | 0.10 | 26.062 | 0.044 | 1471. | 4.3 |
| 26 | 26.0 | 5.542 | 33.074 | 6.96 | 0.10 | 26.086 | 0.048 | 1471. | 4.5 |
| 28 | 28.0 | 5.600 | 33.097 | 6.94 | 0.10 | 26.098 | 0.052 | 1471. | 4.7 |
| 30 | 29.9 | 5.637 | 33.111 | 6.92 | 0.10 | 26.104 | 0.055 | 1471. | 4.7 |
| 32 | 31.9 | 5.713 | 33.147 | 6.88 | 0.10 | 26.124 | 0.059 | 1472. | 4.5 |
| 34 | 34.0 | 5.880 | 33.212 | 6.83 | 0.10 | 26.155 | 0.063 | 1473. | 4.1 |
| 36 | 36.1 | 5.946 | 33.229 | 6.80 | 0.10 | 26.160 | 0.067 | 1473. | 3.7 |
| 38 | 38.0 | 5.948 | 33.229 | 6.80 | 0.09 | 26.160 | 0.070 | 1473. | 3.1 |
| 40 | 40.0 | 5.952 | 33.230 | 6.79 | 0.09 | 26.160 | 0.074 | 1473. | 2.3 |
| 42 | 42.2 | 5.963 | 33.234 | 6.78 | 0.09 | 26.162 | 0.078 | 1473. | 1.4 |
| 44 | 44.1 | 5.972 | 33.238 | 6.78 | 0.09 | 26.164 | 0.082 | 1473. | 1.2 |
| 46 | 46.0 | 5.974 | 33.239 | 6.79 | 0.09 | 26.164 | 0.085 | 1473. | 1.2 |
| 47 | 47.8 | 5.981 | 33.241 | 6.78 | 0.09 | 26.165 | 0.089 | 1473. | 1.2 |
| 50 | 50.3 | 5.982 | 33.241 | 6.79 | 0.09 | 26.165 | 0.093 | 1473. | 1.0 |
| 51 | 51.8 | 5.986 | 33.243 | 6.79 | 0.09 | 26.166 | 0.096 | 1473. | 0.9 |
| 54 | 54.0 | 5.989 | 33.245 | 6.78 | 0.09 | 26.167 | 0.100 | 1473. | 0.7 |
| 56 | 56.1 | 5.992 | 33.245 | 6.78 | 0.09 | 26.167 | 0.104 | 1473. | 0.6 |
| 58 | 58.0 | 5.991 | 33.245 | 6.79 | 0.09 | 26.167 | 0.107 | 1473. | 0.4 |
| 59 | 59.9 | 5.987 | 33.244 | 6.79 | 0.09 | 26.167 | 0.111 | 1473. | -0.1 |
| 62 | 62.1 | 5.988 | 33.244 | 6.80 | 0.09 | 26.167 | 0.115 | 1473. | -0.3 |
| 63 | 64.0 | 5.986 | 33.244 | 6.81 | 0.09 | 26.167 | 0.118 | 1474. | -0.2 |
| 65 | 66.0 | 5.986 | 33.244 | 6.81 | 0.09 | 26.167 | 0.122 | 1474. | 0.0 |
| 68 | 68.2 | 5.986 | 33.243 | 6.80 | 0.09 | 26.167 | 0.126 | 1474. | 0.4 |
| 70 | 70.1 | 5.987 | 33.244 | 6.80 | 0.09 | 26.167 | 0.130 | 1474. | 0.6 |
| 71 | 71.9 | 5.987 | 33.244 | 6.80 | 0.09 | 26.167 | 0.133 | 1474. | 0.9 |
| 73 | 74.0 | 5.989 | 33.244 | 6.80 | 0.09 | 26.167 | 0.137 | 1474. | 1.0 |
| 75 | 76.0 | 5.994 | 33.247 | 6.79 | 0.09 | 26.168 | 0.141 | 1474. | 1.2 |
| 77 | 77.8 | 6.001 | 33.249 | 6.80 | 0.09 | 26.169 | 0.144 | 1474. | 1.3 |
| 80 | 80.2 | 6.014 | 33.254 | 6.79 | 0.09 | 26.171 | 0.148 | 1474. | 1.3 |
| 81 | 81.9 | 6.019 | 33.255 | 6.78 | 0.09 | 26.171 | 0.151 | 1474. | 1.2 |
| 83 | 84.1 | 6.034 | 33.259 | 6.78 | 0.09 | 26.173 | 0.155 | 1474. | 1.1 |
| 85 | 86.0 | 6.047 | 33.262 | 6.78 | 0.09 | 26.174 | 0.159 | 1474. | 1.1 |
| 87 | 88.0 | 6.051 | 33.262 | 6.78 | 0.09 | 26.174 | 0.163 | 1474. | 1.0 |
| 89 | 89.9 | 6.053 | 33.264 | 6.77 | 0.08 | 26.174 | 0.166 | 1474. | 0.9 |
| 91 | 92.2 | 6.053 | 33.264 | 6.77 | 0.08 | 26.175 | 0.170 | 1474. | 0.8 |
| 93 | 93.9 | 6.051 | 33.265 | 6.77 | 0.08 | 26.175 | 0.174 | 1474. | 0.9 |
| 95 | 96.1 | 6.050 | 33.265 | 6.76 | 0.08 | 26.176 | 0.178 | 1474. | 0.9 |
| 97 | 97.8 | 6.049 | 33.265 | 6.77 | 0.08 | 26.176 | 0.181 | 1474. | 1.2 |
| 99 | 100.0 | 6.049 | 33.266 | 6.77 | 0.08 | 26.177 | 0.185 | 1474. | 1.6 |

| SHIP OC | CRUISE 181 | STATION 49 | DATE 08 FEB 1987 | | EST 1539 | LATITUDE 42°34.7'N | LONGITUDE 68°14.9'W | DEPTH 192 | | |
|---------|------------|------------|------------------|----------|---------------------|-------------------------|---|-----------|-------|--|
| DEPTH m | PRESS dbar | TEMP °C | SALIN psu | OXY ml/l | ATN m ⁻¹ | SIGT gm/cm ³ | DYHT A 10m ² /s ² | S SPD m/s | N cph | |
| 101 | 101.9 | 6.053 | 33.267 | 6.75 | 0.08 | 26.177 | 0.188 | 1474. | 1.9 | |
| 104 | 104.4 | 6.067 | 33.271 | 6.74 | 0.08 | 26.178 | 0.193 | 1475. | 2.3 | |
| 105 | 105.9 | 6.097 | 33.283 | 6.72 | 0.08 | 26.184 | 0.196 | 1475. | 2.5 | |
| 107 | 108.0 | 6.165 | 33.303 | 6.68 | 0.08 | 26.192 | 0.199 | 1475. | 2.8 | |
| 109 | 110.1 | 6.180 | 33.310 | 6.64 | 0.08 | 26.195 | 0.203 | 1475. | 2.9 | |
| 111 | 111.9 | 6.206 | 33.323 | 6.59 | 0.08 | 26.202 | 0.207 | 1475. | 2.9 | |
| 113 | 114.0 | 6.233 | 33.334 | 6.54 | 0.08 | 26.207 | 0.210 | 1475. | 2.9 | |
| 115 | 115.9 | 6.263 | 33.348 | 6.48 | 0.08 | 26.215 | 0.214 | 1476. | 2.8 | |
| 117 | 118.1 | 6.282 | 33.354 | 6.43 | 0.09 | 26.217 | 0.218 | 1476. | 2.9 | |
| 119 | 120.2 | 6.301 | 33.363 | 6.38 | 0.09 | 26.221 | 0.222 | 1476. | 3.0 | |
| 121 | 121.9 | 6.329 | 33.374 | 6.35 | 0.09 | 26.227 | 0.225 | 1476. | 3.1 | |
| 123 | 123.9 | 6.364 | 33.388 | 6.32 | 0.10 | 26.233 | 0.228 | 1476. | 3.3 | |
| 125 | 126.2 | 6.386 | 33.399 | 6.09 | 0.10 | 26.239 | 0.232 | 1476. | 3.5 | |
| 127 | 128.0 | 6.431 | 33.423 | 5.88 | 0.10 | 26.252 | 0.236 | 1477. | 3.7 | |
| 129 | 129.8 | 6.454 | 33.436 | 5.86 | 0.11 | 26.259 | 0.239 | 1477. | 3.7 | |
| 131 | 132.1 | 6.479 | 33.455 | 5.82 | 0.12 | 26.271 | 0.243 | 1477. | 3.9 | |
| 133 | 134.1 | 6.495 | 33.467 | 5.81 | 0.12 | 26.278 | 0.246 | 1477. | 4.0 | |
| 135 | 135.8 | 6.505 | 33.477 | 5.80 | 0.13 | 26.285 | 0.249 | 1477. | 3.9 | |
| 137 | 137.8 | 6.517 | 33.490 | 5.80 | 0.13 | 26.294 | 0.253 | 1477. | 3.8 | |
| 139 | 140.2 | 6.547 | 33.519 | 5.80 | 0.16 | 26.313 | 0.257 | 1477. | 3.6 | |
| 141 | 142.2 | 6.588 | 33.538 | 5.79 | 0.21 | 26.323 | 0.260 | 1478. | 3.4 | |
| 143 | 143.9 | 6.612 | 33.546 | 5.77 | 0.16 | 26.325 | 0.263 | 1478. | 3.2 | |
| 145 | 145.9 | 6.645 | 33.556 | 5.75 | 0.16 | 26.329 | 0.267 | 1478. | 3.0 | |
| 147 | 148.2 | 6.676 | 33.564 | 5.74 | 0.16 | 26.331 | 0.271 | 1478. | 2.8 | |
| 149 | 150.1 | 6.690 | 33.569 | 5.74 | 0.16 | 26.334 | 0.274 | 1478. | 2.9 | |
| 151 | 151.9 | 6.709 | 33.582 | 5.73 | 0.16 | 26.341 | 0.277 | 1478. | 3.2 | |
| 153 | 153.9 | 6.744 | 33.604 | 5.71 | 0.17 | 26.354 | 0.280 | 1478. | 3.5 | |
| 155 | 156.0 | 6.748 | 33.610 | 5.70 | 0.18 | 26.358 | 0.284 | 1478. | 3.8 | |
| 156 | 157.7 | 6.745 | 33.616 | 5.69 | 0.18 | 26.363 | 0.287 | 1479. | 3.9 | |
| 159 | 160.0 | 6.767 | 33.638 | 5.67 | 0.19 | 26.377 | 0.290 | 1479. | 4.0 | |
| 161 | 162.1 | 6.825 | 33.670 | 5.64 | 0.20 | 26.395 | 0.294 | 1479. | 4.0 | |
| 162 | 163.8 | 6.842 | 33.679 | 5.62 | 0.20 | 26.400 | 0.297 | 1479. | 4.0 | |
| 164 | 165.8 | 6.911 | 33.702 | 5.58 | 0.20 | 26.409 | 0.300 | 1479. | 4.0 | |
| 167 | 168.1 | 7.045 | 33.744 | 5.51 | 0.19 | 26.423 | 0.304 | 1480. | 4.0 | |
| 169 | 170.1 | 7.083 | 33.757 | 5.47 | 0.19 | 26.428 | 0.307 | 1480. | 4.1 | |
| 170 | 171.8 | 7.109 | 33.768 | 5.45 | 0.20 | 26.434 | 0.310 | 1480. | 4.1 | |
| 173 | 174.1 | 7.151 | 33.802 | 5.42 | 0.26 | 26.455 | 0.313 | 1481. | 4.1 | |
| 175 | 176.0 | 7.171 | 33.823 | 5.39 | 0.27 | 26.468 | 0.316 | 1481. | 4.1 | |
| 176 | 177.2 | 7.180 | 33.831 | 5.38 | 0.28 | 26.474 | 0.318 | 1481. | 4.1 | |
| 177 | 178.0 | 7.181 | 33.832 | 5.37 | 0.28 | 26.474 | 0.320 | 1481. | 4.0 | |
| 178 | 179.1 | 7.182 | 33.834 | 5.37 | 0.29 | 26.475 | 0.321 | 1481. | 3.6 | |
| 178 | 179.8 | 7.186 | 33.838 | 5.29 | 0.28 | 26.478 | 0.322 | 1481. | 3.4 | |
| 180 | 181.0 | 7.208 | 33.853 | 5.00 | 0.30 | 26.487 | 0.324 | 1481. | 3.6 | |
| 181 | 182.0 | 7.225 | 33.863 | 4.99 | 0.30 | 26.492 | 0.326 | 1481. | 3.8 | |
| 182 | 183.0 | 7.235 | 33.866 | 5.00 | 0.30 | 26.494 | 0.327 | 1481. | 4.2 | |
| 182 | 184.0 | 7.248 | 33.872 | 5.01 | 0.30 | 26.496 | 0.329 | 1481. | 4.2 | |
| 183 | 185.0 | 7.273 | 33.888 | 5.01 | 0.30 | 26.505 | 0.331 | 1481. | 4.2 | |
| 184 | 185.9 | 7.294 | 33.897 | 5.03 | 0.31 | 26.510 | 0.332 | 1481. | 4.2 | |
| 185 | 187.0 | 7.352 | 33.927 | 5.04 | 0.33 | 26.525 | 0.334 | 1482. | 4.2 | |

| SHIP OC | CRUISE 181 | STATION 50 | DATE 08 FEB 1987 | | EST 1711 | LATITUDE 42°33.4'N | LONGITUDE 67°59.9'W | DEPTH 207 | | | |
|---------|------------|------------|------------------|----------|---------------------|-------------------------|---|-----------|-------|--|--|
| DEPTH m | PRESS dbar | TEMP °C | SALIN psu | OXY ml/l | ATN m ⁻¹ | SIGT gm/cm ³ | DYHT A 10m ² /s ² | S SPD m/s | N cph | | |
| 2 | 2.2 | 5.126 | 32.927 | 7.12 | 0.12 | 26.018 | 0.000 | 1469. | 1.3 | | |
| 4 | 3.9 | 5.125 | 32.929 | 7.11 | 0.13 | 26.020 | 0.003 | 1469. | 1.3 | | |
| 6 | 6.0 | 5.123 | 32.929 | 7.10 | 0.13 | 26.020 | 0.007 | 1469. | 1.3 | | |
| 8 | 8.2 | 5.123 | 32.929 | 7.09 | 0.13 | 26.020 | 0.012 | 1469. | 1.3 | | |
| 10 | 10.0 | 5.123 | 32.929 | 7.11 | 0.13 | 26.020 | 0.015 | 1469. | 1.3 | | |
| 12 | 12.1 | 5.122 | 32.930 | 7.11 | 0.13 | 26.021 | 0.020 | 1469. | 1.5 | | |
| 14 | 14.1 | 5.116 | 32.930 | 7.12 | 0.13 | 26.022 | 0.023 | 1469. | 1.8 | | |
| 16 | 15.9 | 5.103 | 32.930 | 7.13 | 0.14 | 26.023 | 0.027 | 1469. | 2.0 | | |
| 18 | 18.0 | 5.084 | 32.936 | 7.15 | 0.13 | 26.030 | 0.031 | 1469. | 2.0 | | |
| 20 | 20.0 | 5.080 | 32.937 | 7.14 | 0.13 | 26.031 | 0.035 | 1469. | 2.8 | | |
| 22 | 22.1 | 5.094 | 32.946 | 7.15 | 0.14 | 26.036 | 0.039 | 1469. | 3.5 | | |
| 24 | 24.0 | 5.104 | 32.951 | 7.15 | 0.13 | 26.039 | 0.043 | 1469. | 3.9 | | |
| 26 | 26.1 | 5.127 | 32.950 | 7.14 | 0.15 | 26.036 | 0.047 | 1469. | 4.1 | | |
| 28 | 28.0 | 5.368 | 33.032 | 7.04 | 0.12 | 26.073 | 0.051 | 1470. | 4.2 | | |
| 30 | 29.9 | 5.648 | 33.103 | 6.93 | 0.11 | 26.097 | 0.055 | 1471. | 4.2 | | |
| 32 | 31.9 | 5.725 | 33.113 | 6.90 | 0.11 | 26.095 | 0.058 | 1472. | 4.1 | | |
| 34 | 34.0 | 5.756 | 33.124 | 6.87 | 0.10 | 26.100 | 0.062 | 1472. | 3.7 | | |
| 36 | 36.0 | 5.814 | 33.146 | 6.84 | 0.09 | 26.110 | 0.066 | 1472. | 2.9 | | |
| 38 | 38.0 | 5.864 | 33.162 | 6.82 | 0.09 | 26.117 | 0.070 | 1472. | 2.5 | | |
| 40 | 39.9 | 5.868 | 33.163 | 6.83 | 0.09 | 26.117 | 0.073 | 1473. | 2.4 | | |
| 42 | 42.1 | 5.867 | 33.166 | 6.83 | 0.09 | 26.120 | 0.078 | 1473. | 2.0 | | |
| 44 | 44.1 | 5.864 | 33.167 | 6.83 | 0.08 | 26.121 | 0.081 | 1473. | 1.7 | | |
| 46 | 45.9 | 5.871 | 33.171 | 6.83 | 0.08 | 26.124 | 0.085 | 1473. | 1.4 | | |
| 48 | 48.0 | 5.874 | 33.173 | 6.83 | 0.08 | 26.124 | 0.089 | 1473. | 1.4 | | |
| 50 | 50.2 | 5.877 | 33.174 | 6.83 | 0.08 | 26.125 | 0.093 | 1473. | 1.2 | | |
| 51 | 51.8 | 5.876 | 33.175 | 6.83 | 0.08 | 26.126 | 0.096 | 1473. | 1.1 | | |
| 54 | 54.1 | 5.882 | 33.177 | 6.83 | 0.08 | 26.127 | 0.100 | 1473. | 1.0 | | |
| 56 | 56.0 | 5.888 | 33.178 | 6.83 | 0.08 | 26.127 | 0.104 | 1473. | 1.0 | | |
| 58 | 58.2 | 5.902 | 33.181 | 6.83 | 0.08 | 26.128 | 0.108 | 1473. | 1.0 | | |
| 59 | 60.0 | 5.903 | 33.181 | 6.83 | 0.08 | 26.127 | 0.111 | 1473. | 1.2 | | |
| 61 | 62.0 | 5.897 | 33.181 | 6.83 | 0.08 | 26.128 | 0.115 | 1473. | 1.4 | | |
| 64 | 64.1 | 5.905 | 33.185 | 6.83 | 0.08 | 26.130 | 0.119 | 1473. | 1.6 | | |
| 65 | 65.8 | 5.913 | 33.186 | 6.82 | 0.08 | 26.131 | 0.122 | 1473. | 1.9 | | |
| 67 | 67.9 | 5.941 | 33.197 | 6.80 | 0.07 | 26.135 | 0.126 | 1473. | 2.2 | | |
| 69 | 69.9 | 5.982 | 33.205 | 6.78 | 0.08 | 26.136 | 0.130 | 1474. | 2.4 | | |
| 72 | 72.2 | 6.062 | 33.221 | 6.75 | 0.08 | 26.139 | 0.134 | 1474. | 2.5 | | |
| 73 | 73.8 | 6.149 | 33.245 | 6.70 | 0.08 | 26.147 | 0.137 | 1474. | 2.5 | | |
| 75 | 76.0 | 6.255 | 33.272 | 6.65 | 0.08 | 26.156 | 0.141 | 1475. | 2.7 | | |
| 77 | 78.1 | 6.294 | 33.279 | 6.61 | 0.08 | 26.156 | 0.145 | 1475. | 3.2 | | |
| 79 | 79.9 | 6.302 | 33.281 | 6.57 | 0.08 | 26.157 | 0.149 | 1475. | 3.6 | | |
| 81 | 82.1 | 6.334 | 33.294 | 6.52 | 0.07 | 26.163 | 0.153 | 1475. | 3.8 | | |
| 83 | 83.8 | 6.410 | 33.320 | 6.46 | 0.08 | 26.174 | 0.156 | 1476. | 4.1 | | |
| 85 | 86.1 | 6.550 | 33.378 | 6.36 | 0.09 | 26.202 | 0.160 | 1476. | 4.4 | | |
| 87 | 88.2 | 6.606 | 33.401 | 6.28 | 0.10 | 26.212 | 0.164 | 1477. | 4.7 | | |
| 89 | 90.0 | 6.591 | 33.410 | 6.22 | 0.10 | 26.221 | 0.167 | 1477. | 5.0 | | |
| 91 | 92.1 | 6.597 | 33.427 | 6.19 | 0.11 | 26.234 | 0.171 | 1477. | 5.1 | | |
| 93 | 94.0 | 6.582 | 33.440 | 5.97 | 0.12 | 26.246 | 0.174 | 1477. | 5.1 | | |
| 95 | 95.9 | 6.618 | 33.478 | 5.75 | 0.13 | 26.271 | 0.178 | 1477. | 5.1 | | |
| 97 | 98.0 | 6.641 | 33.513 | 5.70 | 0.15 | 26.296 | 0.181 | 1477. | 4.9 | | |
| 99 | 100.1 | 6.652 | 33.537 | 5.66 | 0.16 | 26.314 | 0.185 | 1477. | 4.6 | | |

| SHIP OC | CRUISE 181 | STATION 50 | DATE 08 FEB 1987 | EST 1711 | LATITUDE 42°33.4'N | LONGITUDE 67°59.9'W | DEPTH 207 | | | | | | | | | |
|------------|---------------|---------------|---------------------|-------------|------------------------|----------------------------|--|--------------|----------|--|--|--|--|--|--|--|
| DEPTH m | PRESS dbar | TEMP °C | SALIN psu | OXY ml/l | ATN m ⁻¹ | SIGT gm/cm ³ | DYHT A 10m ² /s ² | S SPD m/s | N cph | | | | | | | |
| 101 | 102.0 | 6.678 | 33.555 | 5.64 | 0.17 | 26.324 | 0.188 | 1477. | 4.0 | | | | | | | |
| 103 | 103.8 | 6.693 | 33.562 | 5.64 | 0.17 | 26.327 | 0.191 | 1477. | 3.3 | | | | | | | |
| 105 | 106.0 | 6.701 | 33.566 | 5.66 | 0.17 | 26.330 | 0.195 | 1477. | 2.7 | | | | | | | |
| 107 | 107.9 | 6.713 | 33.572 | 5.69 | 0.17 | 26.333 | 0.198 | 1478. | 2.2 | | | | | | | |
| 109 | 110.1 | 6.721 | 33.576 | 5.71 | 0.17 | 26.335 | 0.202 | 1478. | 1.9 | | | | | | | |
| 111 | 112.0 | 6.738 | 33.582 | 5.71 | 0.18 | 26.337 | 0.205 | 1478. | 1.7 | | | | | | | |
| 113 | 114.0 | 6.737 | 33.585 | 5.72 | 0.18 | 26.340 | 0.208 | 1478. | 1.7 | | | | | | | |
| 115 | 115.9 | 6.730 | 33.585 | 5.72 | 0.18 | 26.341 | 0.212 | 1478. | 1.9 | | | | | | | |
| 117 | 118.1 | 6.720 | 33.584 | 5.72 | 0.18 | 26.341 | 0.215 | 1478. | 2.2 | | | | | | | |
| 119 | 120.1 | 6.711 | 33.583 | 5.71 | 0.19 | 26.342 | 0.219 | 1478. | 2.4 | | | | | | | |
| 121 | 122.0 | 6.707 | 33.587 | 5.71 | 0.19 | 26.346 | 0.222 | 1478. | 2.6 | | | | | | | |
| 123 | 124.0 | 6.714 | 33.602 | 5.71 | 0.20 | 26.356 | 0.225 | 1478. | 2.6 | | | | | | | |
| 125 | 125.8 | 6.718 | 33.610 | 5.70 | 0.21 | 26.362 | 0.228 | 1478. | 2.6 | | | | | | | |
| 127 | 128.0 | 6.719 | 33.616 | 5.68 | 0.22 | 26.367 | 0.232 | 1478. | 2.4 | | | | | | | |
| 129 | 129.9 | 6.718 | 33.619 | 5.67 | 0.22 | 26.369 | 0.235 | 1478. | 2.2 | | | | | | | |
| 131 | 132.0 | 6.719 | 33.619 | 5.67 | 0.22 | 26.369 | 0.239 | 1478. | 1.9 | | | | | | | |
| 133 | 134.1 | 6.723 | 33.621 | 5.68 | 0.22 | 26.370 | 0.242 | 1478. | 1.9 | | | | | | | |
| 135 | 136.0 | 6.733 | 33.625 | 5.67 | 0.22 | 26.372 | 0.245 | 1478. | 2.0 | | | | | | | |
| 137 | 137.9 | 6.771 | 33.635 | 5.66 | 0.22 | 26.375 | 0.248 | 1478. | 2.3 | | | | | | | |
| 139 | 140.0 | 6.805 | 33.647 | 5.65 | 0.22 | 26.380 | 0.252 | 1478. | 2.7 | | | | | | | |
| 141 | 141.9 | 6.856 | 33.661 | 5.63 | 0.22 | 26.384 | 0.255 | 1479. | 2.8 | | | | | | | |
| 143 | 144.1 | 6.925 | 33.678 | 5.61 | 0.21 | 26.387 | 0.259 | 1479. | 3.0 | | | | | | | |
| 145 | 146.1 | 7.021 | 33.709 | 5.59 | 0.21 | 26.399 | 0.262 | 1480. | 3.0 | | | | | | | |
| 147 | 148.1 | 7.128 | 33.739 | 5.56 | 0.20 | 26.408 | 0.265 | 1480. | 3.0 | | | | | | | |
| 149 | 150.1 | 7.127 | 33.739 | 5.56 | 0.20 | 26.408 | 0.269 | 1480. | 3.2 | | | | | | | |
| 151 | 151.9 | 7.153 | 33.752 | 5.55 | 0.20 | 26.415 | 0.271 | 1480. | 4.0 | | | | | | | |
| 153 | 153.9 | 7.184 | 33.761 | 5.54 | 0.20 | 26.418 | 0.275 | 1480. | 4.6 | | | | | | | |
| 155 | 156.0 | 7.220 | 33.776 | 5.52 | 0.20 | 26.425 | 0.278 | 1481. | 5.0 | | | | | | | |
| 157 | 158.1 | 7.280 | 33.809 | 5.48 | 0.20 | 26.442 | 0.281 | 1481. | 5.2 | | | | | | | |
| 159 | 160.0 | 7.390 | 33.898 | 5.41 | 0.22 | 26.497 | 0.285 | 1481. | 5.6 | | | | | | | |
| 161 | 162.0 | 7.425 | 33.924 | 5.36 | 0.23 | 26.512 | 0.288 | 1482. | 5.9 | | | | | | | |
| 163 | 163.9 | 7.444 | 33.937 | 5.32 | 0.23 | 26.520 | 0.290 | 1482. | 6.2 | | | | | | | |
| 165 | 165.9 | 7.463 | 33.951 | 5.29 | 0.23 | 26.528 | 0.294 | 1482. | 6.6 | | | | | | | |
| 167 | 168.1 | 7.553 | 34.016 | 5.25 | 0.24 | 26.566 | 0.297 | 1482. | 7.0 | | | | | | | |
| 169 | 170.1 | 7.634 | 34.073 | 5.20 | 0.25 | 26.599 | 0.300 | 1483. | 7.5 | | | | | | | |
| 170 | 171.9 | 7.736 | 34.142 | 4.83 | 0.25 | 26.639 | 0.302 | 1483. | 7.7 | | | | | | | |
| 173 | 174.0 | 7.908 | 34.257 | 4.75 | 0.25 | 26.704 | 0.305 | 1484. | 7.5 | | | | | | | |
| 175 | 176.1 | 8.064 | 34.351 | 4.70 | 0.24 | 26.754 | 0.308 | 1485. | 7.0 | | | | | | | |
| 177 | 178.0 | 8.127 | 34.387 | 4.67 | 0.24 | 26.774 | 0.311 | 1485. | 6.4 | | | | | | | |
| 178 | 179.9 | 8.151 | 34.400 | 4.66 | 0.23 | 26.780 | 0.313 | 1485. | 5.5 | | | | | | | |
| 181 | 182.1 | 8.202 | 34.431 | 4.67 | 0.23 | 26.797 | 0.316 | 1486. | 4.4 | | | | | | | |
| 182 | 184.0 | 8.223 | 34.446 | 4.68 | 0.24 | 26.806 | 0.318 | 1486. | 3.5 | | | | | | | |
| 184 | 185.9 | 8.235 | 34.455 | 4.71 | 0.24 | 26.811 | 0.321 | 1486. | 3.1 | | | | | | | |
| 186 | 188.0 | 8.251 | 34.465 | 4.71 | 0.25 | 26.816 | 0.323 | 1486. | 2.7 | | | | | | | |
| 188 | 190.0 | 8.255 | 34.468 | 4.71 | 0.25 | 26.818 | 0.326 | 1486. | 2.2 | | | | | | | |
| 190 | 191.9 | 8.257 | 34.469 | 4.72 | 0.25 | 26.819 | 0.328 | 1486. | 1.7 | | | | | | | |
| 192 | 193.2 | 8.258 | 34.469 | 4.73 | 0.25 | 26.818 | 0.330 | 1486. | 1.3 | | | | | | | |
| 192 | 194.1 | 8.259 | 34.469 | 4.72 | 0.25 | 26.819 | 0.331 | 1486. | 0.8 | | | | | | | |
| 193 | 195.0 | 8.259 | 34.469 | 4.72 | 0.25 | 26.818 | 0.332 | 1486. | 0.4 | | | | | | | |
| 194 | 196.0 | 8.259 | 34.469 | 4.72 | 0.26 | 26.818 | 0.333 | 1486. | -0.3 | | | | | | | |

| SHIP OC | CRUISE 181 | STATION 50 | DATE 08 FEB 1987 | EST 1711 | LATITUDE 42°33.4'N | LONGITUDE 67°59.9'W | DEPTH 207 | | | | | | | | | |
|------------|---------------|---------------|---------------------|-------------|------------------------|----------------------------|--|--------------|----------|--|--|--|--|--|--|--|
| DEPTH m | PRESS dbar | TEMP °C | SALIN psu | OXY ml/l | ATN m ⁻¹ | SIGT gm/cm ³ | DYHT A 10m ² /s ² | S SPD m/s | N cph | | | | | | | |
| 195 | 197.0 | 8.260 | 34.470 | 4.71 | 0.25 | 26.819 | 0.335 | 1486. | -0.4 | | | | | | | |
| 196 | 198.0 | 8.260 | 34.469 | 4.72 | 0.25 | 26.818 | 0.336 | 1486. | -0.6 | | | | | | | |
| 197 | 199.0 | 8.260 | 34.469 | 4.72 | 0.26 | 26.818 | 0.337 | 1486. | -0.8 | | | | | | | |
| 198 | 199.9 | 8.259 | 34.469 | 4.72 | 0.26 | 26.818 | 0.338 | 1486. | -0.8 | | | | | | | |
| 199 | 200.9 | 8.259 | 34.469 | 4.72 | 0.26 | 26.818 | 0.340 | 1486. | -0.8 | | | | | | | |
| 200 | 202.0 | 8.258 | 34.468 | 4.72 | 0.26 | 26.818 | 0.341 | 1486. | -0.8 | | | | | | | |
| 201 | 202.8 | 8.255 | 34.466 | 4.73 | 0.26 | 26.816 | 0.342 | 1486. | -0.8 | | | | | | | |

| SHIP OC | CRUISE 181 | STATION 51 | DATE 11 FEB 1987 | | EST 0106 | LATITUDE 42°23.6'N | LONGITUDE 70°50.2'W | DEPTH 35 | | |
|------------|---------------|---------------|---------------------|-------------|------------------------|----------------------------|--|--------------|----------|--|
| DEPTH m | PRESS dbar | TEMP °C | SALIN psu | OXY ml/l | ATN m ⁻¹ | SIGT gm/cm ³ | DYHT A 10m ² /s ² | S SPD m/s | N cph | |
| 2 | 2.5 | 3.034 | 32.426 | 4.99 | 1.15 | 25.828 | 0.000 | 1459. | 1.0 | |
| 4 | 3.9 | 3.044 | 32.426 | 5.01 | 1.17 | 25.827 | 0.003 | 1459. | 1.0 | |
| 6 | 5.9 | 3.051 | 32.428 | 5.02 | 1.18 | 25.828 | 0.007 | 1459. | 1.0 | |
| 8 | 7.9 | 3.054 | 32.429 | 5.01 | 1.18 | 25.829 | 0.012 | 1459. | 1.0 | |
| 10 | 10.0 | 3.054 | 32.431 | 5.00 | 1.18 | 25.830 | 0.016 | 1459. | 1.0 | |
| 12 | 12.0 | 3.056 | 32.432 | 5.00 | 1.17 | 25.830 | 0.021 | 1460. | 1.0 | |
| 14 | 14.1 | 3.058 | 32.432 | 4.99 | 1.19 | 25.831 | 0.025 | 1460. | 1.0 | |
| 16 | 15.9 | 3.061 | 32.433 | 5.01 | 1.20 | 25.831 | 0.029 | 1460. | 0.9 | |
| 18 | 18.1 | 3.063 | 32.434 | 5.01 | 1.21 | 25.832 | 0.034 | 1460. | 0.9 | |
| 20 | 19.9 | 3.063 | 32.435 | 5.02 | 1.21 | 25.832 | 0.038 | 1460. | 0.9 | |
| 21 | 21.3 | 3.063 | 32.435 | 5.03 | 1.20 | 25.832 | 0.041 | 1460. | 0.9 | |
| 22 | 22.0 | 3.061 | 32.435 | 5.03 | 1.20 | 25.833 | 0.042 | 1460. | 0.9 | |
| 23 | 23.0 | 3.061 | 32.435 | 5.03 | 1.20 | 25.833 | 0.044 | 1460. | 0.8 | |
| 24 | 24.0 | 3.065 | 32.436 | 5.04 | 1.20 | 25.833 | 0.046 | 1460. | 0.8 | |
| 25 | 25.0 | 3.066 | 32.436 | 5.05 | 1.21 | 25.833 | 0.049 | 1460. | 0.8 | |
| 26 | 26.0 | 3.069 | 32.437 | 5.06 | 1.22 | 25.833 | 0.051 | 1460. | 0.8 | |
| 27 | 27.1 | 3.070 | 32.438 | 5.08 | 1.24 | 25.834 | 0.053 | 1460. | 0.8 | |

| SHIP OC | CRUISE 181 | STATION 52 | DATE 11 FEB 1987 | | EST 0145 | LATITUDE 42°23.6'N | LONGITUDE 70°45.1'W | DEPTH 43 | | |
|------------|---------------|---------------|---------------------|-------------|------------------------|----------------------------|--|--------------|----------|--|
| DEPTH m | PRESS dbar | TEMP °C | SALIN psu | OXY ml/l | ATN m ⁻¹ | SIGT gm/cm ³ | DYHT A 10m ² /s ² | S SPD m/s | N cph | |
| 3 | 2.8 | 3.294 | 32.464 | 5.06 | 0.70 | 25.835 | 0.000 | 1460. | -0.5 | |
| 4 | 4.0 | 3.296 | 32.465 | 5.08 | 0.71 | 25.836 | 0.003 | 1460. | -0.5 | |
| 6 | 6.0 | 3.299 | 32.464 | 5.08 | 0.69 | 25.835 | 0.007 | 1460. | -0.5 | |
| 8 | 8.0 | 3.293 | 32.465 | 5.08 | 0.71 | 25.836 | 0.011 | 1460. | -0.5 | |
| 10 | 9.9 | 3.294 | 32.465 | 5.08 | 0.69 | 25.836 | 0.015 | 1461. | -0.5 | |
| 12 | 12.1 | 3.301 | 32.464 | 5.07 | 0.71 | 25.835 | 0.020 | 1461. | -0.5 | |
| 14 | 14.0 | 3.303 | 32.464 | 5.07 | 0.70 | 25.835 | 0.024 | 1461. | -0.5 | |
| 16 | 16.1 | 3.305 | 32.464 | 5.07 | 0.72 | 25.835 | 0.029 | 1461. | -0.5 | |
| 18 | 17.8 | 3.306 | 32.465 | 5.07 | 0.71 | 25.835 | 0.032 | 1461. | -0.2 | |
| 20 | 20.1 | 3.304 | 32.464 | 5.08 | 0.71 | 25.835 | 0.037 | 1461. | 0.3 | |
| 22 | 21.9 | 3.304 | 32.465 | 5.09 | 0.71 | 25.835 | 0.041 | 1461. | 0.4 | |
| 24 | 24.2 | 3.304 | 32.465 | 5.09 | 0.71 | 25.835 | 0.046 | 1461. | 0.3 | |
| 25 | 25.3 | 3.304 | 32.465 | 5.10 | 0.71 | 25.835 | 0.049 | 1461. | 0.3 | |
| 26 | 26.0 | 3.304 | 32.465 | 5.11 | 0.71 | 25.835 | 0.050 | 1461. | -0.2 | |
| 27 | 27.0 | 3.304 | 32.464 | 5.11 | 0.70 | 25.835 | 0.052 | 1461. | -0.3 | |
| 28 | 28.0 | 3.304 | 32.465 | 5.10 | 0.70 | 25.835 | 0.054 | 1461. | -0.3 | |
| 29 | 29.0 | 3.303 | 32.464 | 5.09 | 0.71 | 25.835 | 0.057 | 1461. | -0.3 | |
| 30 | 30.0 | 3.303 | 32.464 | 5.10 | 0.71 | 25.835 | 0.059 | 1461. | 0.2 | |
| 31 | 31.0 | 3.302 | 32.464 | 5.09 | 0.71 | 25.835 | 0.061 | 1461. | 0.3 | |
| 32 | 32.1 | 3.301 | 32.464 | 5.09 | 0.71 | 25.835 | 0.063 | 1461. | 0.3 | |
| 33 | 33.0 | 3.301 | 32.464 | 5.09 | 0.70 | 25.835 | 0.065 | 1461. | 0.4 | |
| 34 | 34.0 | 3.300 | 32.464 | 5.09 | 0.71 | 25.835 | 0.067 | 1461. | 0.4 | |
| 35 | 35.0 | 3.301 | 32.464 | 5.11 | 0.71 | 25.835 | 0.069 | 1461. | 0.3 | |
| 36 | 36.0 | 3.301 | 32.464 | 5.13 | 0.70 | 25.835 | 0.072 | 1461. | 0.3 | |
| 37 | 37.1 | 3.300 | 32.464 | 5.13 | 0.71 | 25.835 | 0.074 | 1461. | 0.3 | |
| 38 | 38.0 | 3.298 | 32.464 | 5.15 | 0.70 | 25.835 | 0.076 | 1461. | 0.3 | |
| 38 | 38.7 | 3.299 | 32.464 | 5.15 | 0.71 | 25.835 | 0.078 | 1461. | 0.3 | |

SHIP OC CRUISE STATION DATE EST LATITUDE LONGITUDE DEPTH
 181 53 11 FEB 1987 0218 42°23.5'N 70°40.1'W 70

| DEPTH | PRESS | TEMP | SALIN | OXY | ATN | SIGT | DYHT A | S SPD | N |
|-------|-------|-------|--------|------|-----------------|-------------------|----------------------------------|-------|-----|
| m | dbar | °C | psu | ml/l | m ⁻¹ | g/cm ³ | 10m ² /s ² | m/s | cph |
| 2 | 2.5 | 3.428 | 32.490 | 5.02 | 0.58 | 25.844 | 0.000 | 1461. | 0.4 |
| 4 | 3.9 | 3.432 | 32.489 | 5.03 | 0.56 | 25.843 | 0.003 | 1461. | 0.4 |
| 6 | 6.1 | 3.447 | 32.492 | 5.02 | 0.56 | 25.844 | 0.008 | 1461. | 0.4 |
| 8 | 7.8 | 3.448 | 32.492 | 5.03 | 0.56 | 25.844 | 0.011 | 1461. | 0.4 |
| 10 | 10.1 | 3.450 | 32.494 | 5.04 | 0.56 | 25.845 | 0.016 | 1461. | 0.4 |
| 12 | 12.0 | 3.456 | 32.494 | 5.04 | 0.55 | 25.845 | 0.020 | 1461. | 0.4 |
| 14 | 14.1 | 3.448 | 32.492 | 5.06 | 0.56 | 25.844 | 0.025 | 1461. | 0.6 |
| 16 | 15.9 | 3.447 | 32.492 | 5.07 | 0.56 | 25.844 | 0.029 | 1461. | 0.7 |
| 18 | 18.0 | 3.452 | 32.494 | 5.08 | 0.56 | 25.845 | 0.033 | 1461. | 0.9 |
| 20 | 20.1 | 3.457 | 32.494 | 5.08 | 0.56 | 25.845 | 0.038 | 1461. | 1.2 |
| 22 | 22.1 | 3.476 | 32.500 | 5.07 | 0.55 | 25.847 | 0.042 | 1462. | 1.3 |
| 24 | 23.9 | 3.474 | 32.500 | 5.08 | 0.55 | 25.847 | 0.046 | 1462. | 1.4 |
| 26 | 26.2 | 3.485 | 32.503 | 5.09 | 0.54 | 25.849 | 0.051 | 1462. | 1.6 |
| 28 | 27.9 | 3.500 | 32.508 | 5.08 | 0.53 | 25.852 | 0.054 | 1462. | 1.9 |
| 30 | 30.1 | 3.505 | 32.509 | 5.09 | 0.53 | 25.852 | 0.059 | 1462. | 2.2 |
| 32 | 31.9 | 3.510 | 32.511 | 5.09 | 0.52 | 25.853 | 0.063 | 1462. | 2.5 |
| 34 | 34.1 | 3.548 | 32.524 | 5.09 | 0.51 | 25.860 | 0.068 | 1462. | 2.7 |
| 36 | 36.0 | 3.585 | 32.536 | 5.08 | 0.49 | 25.867 | 0.072 | 1462. | 2.8 |
| 38 | 38.1 | 3.617 | 32.548 | 5.08 | 0.48 | 25.873 | 0.076 | 1462. | 2.9 |
| 40 | 40.0 | 3.654 | 32.561 | 5.06 | 0.46 | 25.880 | 0.080 | 1463. | 2.8 |
| 42 | 42.1 | 3.693 | 32.572 | 5.06 | 0.45 | 25.885 | 0.085 | 1463. | 2.7 |
| 44 | 43.9 | 3.710 | 32.577 | 5.05 | 0.44 | 25.887 | 0.089 | 1463. | 2.7 |
| 46 | 46.1 | 3.740 | 32.586 | 5.05 | 0.44 | 25.891 | 0.093 | 1463. | 2.7 |
| 48 | 48.0 | 3.760 | 32.592 | 5.05 | 0.44 | 25.894 | 0.097 | 1463. | 2.7 |
| 50 | 50.0 | 3.782 | 32.600 | 5.04 | 0.44 | 25.898 | 0.101 | 1463. | 2.7 |
| 51 | 51.3 | 3.820 | 32.617 | 5.03 | 0.43 | 25.908 | 0.104 | 1464. | 2.7 |
| 52 | 52.2 | 3.840 | 32.618 | 5.03 | 0.43 | 25.908 | 0.106 | 1464. | 2.5 |
| 53 | 52.9 | 3.861 | 32.624 | 5.01 | 0.42 | 25.910 | 0.107 | 1464. | 2.3 |
| 54 | 54.0 | 3.860 | 32.621 | 5.01 | 0.43 | 25.908 | 0.110 | 1464. | 1.7 |
| 55 | 55.0 | 3.867 | 32.623 | 5.02 | 0.43 | 25.909 | 0.112 | 1464. | 1.0 |
| 56 | 56.0 | 3.863 | 32.621 | 5.02 | 0.42 | 25.908 | 0.114 | 1464. | 1.4 |
| 57 | 57.0 | 3.875 | 32.628 | 5.01 | 0.42 | 25.912 | 0.116 | 1464. | 1.7 |
| 58 | 58.0 | 3.887 | 32.627 | 5.00 | 0.42 | 25.910 | 0.118 | 1464. | 2.0 |
| 59 | 59.0 | 3.885 | 32.627 | 5.00 | 0.42 | 25.910 | 0.120 | 1464. | 2.1 |
| 59 | 60.0 | 3.907 | 32.636 | 4.99 | 0.44 | 25.915 | 0.122 | 1464. | 2.1 |
| 61 | 61.1 | 3.925 | 32.641 | 4.99 | 0.44 | 25.917 | 0.124 | 1464. | 1.9 |
| 61 | 61.9 | 3.929 | 32.641 | 4.98 | 0.44 | 25.917 | 0.126 | 1464. | 1.8 |
| 63 | 63.1 | 3.931 | 32.643 | 4.99 | 0.45 | 25.918 | 0.129 | 1464. | 1.8 |
| 63 | 63.9 | 3.932 | 32.643 | 4.99 | 0.45 | 25.918 | 0.130 | 1464. | 1.8 |
| 65 | 65.1 | 3.933 | 32.643 | 4.98 | 0.45 | 25.918 | 0.133 | 1464. | 1.8 |
| 65 | 65.8 | 3.935 | 32.643 | 4.95 | 0.46 | 25.918 | 0.134 | 1464. | 1.8 |

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SHIP OC CRUISE STATION DATE EST LATITUDE LONGITUDE DEPTH
 181 54 11 FEB 1987 0301 42°23.5'N 70°35.2'W 88

| DEPTH | PRESS | TEMP | SALIN | OXY | ATN | SIGT | DYHT A | S SPD | N |
|-------|-------|-------|--------|------|-----------------|-------------------|----------------------------------|-------|-----|
| m | dbar | °C | psu | ml/l | m ⁻¹ | g/cm ³ | 10m ² /s ² | m/s | cph |
| 2 | 2.0 | 3.673 | 32.580 | 4.93 | 0.50 | 25.893 | 0.000 | 1462. | 0.6 |
| 4 | 3.8 | 3.675 | 32.580 | 4.92 | 0.49 | 25.893 | 0.004 | 1462. | 0.6 |
| 6 | 5.9 | 3.673 | 32.580 | 4.93 | 0.49 | 25.893 | 0.008 | 1462. | 0.6 |
| 8 | 7.9 | 3.673 | 32.581 | 4.94 | 0.49 | 25.893 | 0.012 | 1462. | 0.6 |
| 10 | 9.9 | 3.685 | 32.582 | 4.93 | 0.49 | 25.894 | 0.017 | 1462. | 0.6 |
| 12 | 11.9 | 3.702 | 32.584 | 4.93 | 0.49 | 25.894 | 0.021 | 1462. | 0.6 |
| 14 | 13.9 | 3.710 | 32.587 | 4.94 | 0.48 | 25.895 | 0.025 | 1463. | 0.5 |
| 16 | 16.0 | 3.717 | 32.587 | 4.94 | 0.48 | 25.895 | 0.029 | 1463. | 0.4 |
| 18 | 18.0 | 3.717 | 32.587 | 4.95 | 0.48 | 25.894 | 0.033 | 1463. | 0.8 |
| 20 | 19.9 | 3.712 | 32.586 | 4.96 | 0.48 | 25.894 | 0.037 | 1463. | 0.8 |
| 22 | 22.1 | 3.723 | 32.588 | 4.96 | 0.49 | 25.895 | 0.042 | 1463. | 0.9 |
| 24 | 24.0 | 3.733 | 32.589 | 4.96 | 0.48 | 25.894 | 0.046 | 1463. | 1.1 |
| 26 | 26.0 | 3.752 | 32.597 | 4.94 | 0.48 | 25.899 | 0.050 | 1463. | 1.1 |
| 28 | 27.8 | 3.768 | 32.596 | 4.93 | 0.48 | 25.897 | 0.054 | 1463. | 1.2 |
| 30 | 29.9 | 3.757 | 32.596 | 4.94 | 0.48 | 25.898 | 0.058 | 1463. | 1.4 |
| 32 | 32.0 | 3.792 | 32.604 | 4.94 | 0.48 | 25.901 | 0.063 | 1463. | 1.7 |
| 34 | 33.9 | 3.791 | 32.601 | 4.95 | 0.47 | 25.899 | 0.067 | 1463. | 2.1 |
| 36 | 36.0 | 3.809 | 32.607 | 4.93 | 0.48 | 25.901 | 0.071 | 1463. | 2.6 |
| 38 | 37.9 | 3.846 | 32.620 | 4.93 | 0.47 | 25.908 | 0.075 | 1464. | 2.9 |
| 40 | 40.1 | 3.896 | 32.632 | 4.93 | 0.48 | 25.913 | 0.080 | 1464. | 3.0 |
| 41 | 41.8 | 3.938 | 32.650 | 4.92 | 0.46 | 25.923 | 0.083 | 1464. | 3.0 |
| 44 | 44.2 | 3.998 | 32.671 | 4.91 | 0.44 | 25.934 | 0.088 | 1464. | 2.9 |
| 46 | 46.0 | 4.001 | 32.674 | 4.90 | 0.42 | 25.936 | 0.092 | 1464. | 2.7 |
| 48 | 48.2 | 4.009 | 32.678 | 4.90 | 0.41 | 25.939 | 0.096 | 1464. | 2.5 |
| 50 | 49.9 | 4.017 | 32.680 | 4.91 | 0.41 | 25.940 | 0.100 | 1465. | 2.2 |
| 51 | 51.9 | 4.024 | 32.685 | 4.91 | 0.39 | 25.942 | 0.104 | 1465. | 1.9 |
| 53 | 53.8 | 4.067 | 32.697 | 4.89 | 0.40 | 25.948 | 0.108 | 1465. | 1.8 |
| 56 | 56.1 | 4.131 | 32.708 | 4.88 | 0.43 | 25.950 | 0.113 | 1465. | 1.6 |
| 57 | 57.9 | 4.143 | 32.710 | 4.89 | 0.43 | 25.950 | 0.116 | 1465. | 1.6 |
| 60 | 60.1 | 4.152 | 32.711 | 4.88 | 0.44 | 25.951 | 0.121 | 1465. | 1.8 |
| 62 | 62.0 | 4.153 | 32.711 | 4.87 | 0.44 | 25.951 | 0.125 | 1465. | 1.9 |
| 64 | 64.0 | 4.166 | 32.714 | 4.88 | 0.46 | 25.951 | 0.129 | 1465. | 2.1 |
| 65 | 65.9 | 4.246 | 32.732 | 4.85 | 0.68 | 25.958 | 0.133 | 1466. | 2.3 |
| 68 | 68.1 | 4.315 | 32.753 | 4.84 | 0.74 | 25.967 | 0.137 | 1466. | 2.4 |
| 69 | 70.0 | 4.311 | 32.753 | 4.83 | 0.73 | 25.968 | 0.141 | 1466. | 2.4 |
| 71 | 71.3 | 4.305 | 32.754 | 4.84 | 0.73 | 25.969 | 0.144 | 1466. | 2.3 |
| 71 | 72.1 | 4.305 | 32.755 | 4.84 | 0.75 | 25.970 | 0.145 | 1466. | 1.8 |
| 72 | 73.0 | 4.297 | 32.753 | 4.85 | 0.71 | 25.969 | 0.147 | 1466. | 1.3 |
| 73 | 74.0 | 4.292 | 32.754 | 4.85 | 0.72 | 25.970 | 0.149 | 1466. | 1.3 |
| 74 | 75.0 | 4.290 | 32.754 | 4.85 | 0.72 | 25.971 | 0.151 | 1466. | 1.3 |
| 75 | 76.0 | 4.288 | 32.754 | 4.86 | 0.74 | 25.971 | 0.153 | 1466. | 1.3 |
| 76 | 77.0 | 4.283 | 32.755 | 4.86 | 0.75 | 25.972 | 0.155 | 1466. | 1.3 |
| 77 | 78.0 | 4.280 | 32.755 | 4.87 | 0.72 | 25.973 | 0.157 | 1466. | 1.2 |
| 78 | 79.1 | 4.278 | 32.755 | 4.88 | 0.73 | 25.973 | 0.160 | 1466. | 1.2 |
| 79 | 80.1 | 4.276 | 32.756 | 4.87 | 0.76 | 25.974 | 0.162 | 1466. | 1.2 |
| 80 | 81.0 | 4.277 | 32.756 | 4.87 | 0.73 | 25.974 | 0.163 | 1466. | 1.2 |
| 81 | 82.1 | 4.277 | 32.756 | 4.88 | 0.74 | 25.974 | 0.166 | 1466. | 1.2 |
| 82 | 82.5 | 4.278 | 32.756 | 4.88 | 0.78 | 25.974 | 0.167 | 1466. | 1.2 |

| SHIP OC | CRUISE 181 | STATION 55 | DATE 11 FEB 1987 | | | EST 0339 | LATITUDE 42°23.6'N | LONGITUDE 70°30.1'W | DEPTH 90 | |
|------------|---------------|---------------|---------------------|-------------|------------------------|----------------------------|--|------------------------|-------------|--|
| DEPTH m | PRESS dbar | TEMP °C | SALIN psu | OXY ml/l | ATN m ⁻¹ | SIGT gm/cm ³ | DYHT A 10m ² /s ² | S SPD m/s | N cph | |
| 2 | 2.5 | 3.642 | 32.532 | 4.93 | 0.47 | 25.858 | 0.000 | 1462. | -0.7 | |
| 4 | 3.8 | 3.644 | 32.531 | 4.92 | 0.47 | 25.857 | 0.003 | 1462. | -0.7 | |
| 6 | 6.1 | 3.646 | 32.531 | 4.92 | 0.46 | 25.856 | 0.008 | 1462. | -0.7 | |
| 8 | 8.1 | 3.648 | 32.531 | 4.92 | 0.46 | 25.857 | 0.012 | 1462. | -0.7 | |
| 10 | 10.0 | 3.663 | 32.531 | 4.93 | 0.47 | 25.855 | 0.016 | 1462. | -0.7 | |
| 12 | 12.0 | 3.663 | 32.531 | 4.95 | 0.47 | 25.855 | 0.020 | 1462. | -0.6 | |
| 14 | 13.9 | 3.668 | 32.531 | 4.95 | 0.47 | 25.855 | 0.025 | 1462. | -0.5 | |
| 16 | 16.0 | 3.667 | 32.532 | 4.96 | 0.47 | 25.855 | 0.029 | 1462. | -0.4 | |
| 18 | 17.8 | 3.671 | 32.532 | 4.96 | 0.47 | 25.855 | 0.033 | 1462. | 0.3 | |
| 20 | 20.1 | 3.671 | 32.531 | 4.98 | 0.47 | 25.854 | 0.038 | 1462. | 0.6 | |
| 22 | 22.1 | 3.672 | 32.532 | 4.99 | 0.47 | 25.855 | 0.042 | 1462. | 0.7 | |
| 24 | 23.9 | 3.679 | 32.532 | 5.01 | 0.47 | 25.855 | 0.046 | 1462. | 0.8 | |
| 26 | 25.9 | 3.684 | 32.535 | 5.02 | 0.48 | 25.856 | 0.050 | 1463. | 0.9 | |
| 28 | 28.3 | 3.687 | 32.536 | 5.03 | 0.48 | 25.857 | 0.055 | 1463. | 0.9 | |
| 30 | 29.9 | 3.692 | 32.537 | 5.03 | 0.48 | 25.857 | 0.059 | 1463. | 0.8 | |
| 32 | 31.9 | 3.695 | 32.539 | 5.03 | 0.48 | 25.858 | 0.063 | 1463. | 0.6 | |
| 34 | 34.3 | 3.698 | 32.539 | 5.03 | 0.48 | 25.858 | 0.068 | 1463. | -0.4 | |
| 36 | 36.1 | 3.695 | 32.539 | 5.03 | 0.49 | 25.858 | 0.072 | 1463. | -0.6 | |
| 38 | 37.8 | 3.694 | 32.538 | 5.04 | 0.48 | 25.858 | 0.075 | 1463. | 1.2 | |
| 40 | 40.2 | 3.681 | 32.534 | 5.05 | 0.48 | 25.856 | 0.081 | 1463. | 1.8 | |
| 41 | 41.7 | 3.666 | 32.531 | 5.05 | 0.47 | 25.855 | 0.084 | 1463. | 2.3 | |
| 44 | 44.2 | 3.666 | 32.533 | 5.06 | 0.47 | 25.856 | 0.089 | 1463. | 2.7 | |
| 46 | 46.0 | 3.750 | 32.566 | 5.04 | 0.52 | 25.875 | 0.093 | 1463. | 2.8 | |
| 47 | 47.8 | 3.806 | 32.578 | 5.02 | 0.55 | 25.879 | 0.097 | 1463. | 3.0 | |
| 50 | 50.3 | 3.834 | 32.590 | 5.02 | 0.56 | 25.885 | 0.102 | 1464. | 3.2 | |
| 52 | 52.0 | 3.861 | 32.598 | 5.02 | 0.58 | 25.889 | 0.106 | 1464. | 3.4 | |
| 54 | 54.0 | 3.870 | 32.598 | 5.02 | 0.59 | 25.888 | 0.110 | 1464. | 3.7 | |
| 56 | 56.0 | 3.902 | 32.612 | 5.02 | 0.61 | 25.897 | 0.114 | 1464. | 4.0 | |
| 58 | 58.1 | 3.970 | 32.644 | 5.01 | 0.60 | 25.915 | 0.118 | 1464. | 4.2 | |
| 60 | 60.0 | 4.032 | 32.669 | 5.00 | 0.60 | 25.929 | 0.122 | 1465. | 4.3 | |
| 62 | 62.1 | 4.107 | 32.703 | 4.98 | 0.61 | 25.949 | 0.127 | 1465. | 4.2 | |
| 63 | 63.9 | 4.142 | 32.717 | 4.97 | 0.59 | 25.956 | 0.130 | 1465. | 3.9 | |
| 65 | 65.8 | 4.168 | 32.728 | 4.96 | 0.58 | 25.963 | 0.134 | 1465. | 3.5 | |
| 67 | 68.0 | 4.190 | 32.737 | 4.95 | 0.57 | 25.967 | 0.139 | 1466. | 3.2 | |
| 69 | 70.1 | 4.203 | 32.742 | 4.95 | 0.56 | 25.970 | 0.143 | 1466. | 2.8 | |
| 71 | 71.2 | 4.222 | 32.750 | 4.94 | 0.54 | 25.974 | 0.145 | 1466. | 2.6 | |
| 71 | 72.0 | 4.236 | 32.755 | 4.94 | 0.54 | 25.977 | 0.147 | 1466. | 2.4 | |
| 72 | 73.0 | 4.244 | 32.757 | 4.94 | 0.53 | 25.978 | 0.149 | 1466. | 2.2 | |
| 73 | 74.0 | 4.248 | 32.758 | 4.94 | 0.53 | 25.978 | 0.151 | 1466. | 2.2 | |
| 74 | 75.0 | 4.255 | 32.761 | 4.94 | 0.53 | 25.980 | 0.153 | 1466. | 2.3 | |
| 75 | 76.0 | 4.257 | 32.761 | 4.94 | 0.53 | 25.980 | 0.155 | 1466. | 2.4 | |
| 76 | 77.1 | 4.261 | 32.762 | 4.94 | 0.53 | 25.980 | 0.157 | 1466. | 2.7 | |
| 77 | 77.9 | 4.281 | 32.773 | 4.92 | 0.52 | 25.987 | 0.159 | 1466. | 3.1 | |
| 78 | 79.1 | 4.293 | 32.778 | 4.92 | 0.53 | 25.989 | 0.161 | 1466. | 3.3 | |
| 79 | 80.0 | 4.304 | 32.782 | 4.92 | 0.52 | 25.992 | 0.163 | 1466. | 3.4 | |
| 80 | 81.0 | 4.314 | 32.788 | 4.91 | 0.53 | 25.995 | 0.165 | 1466. | 3.3 | |
| 81 | 82.0 | 4.345 | 32.803 | 4.90 | 0.54 | 26.004 | 0.167 | 1467. | 3.2 | |
| 82 | 82.9 | 4.352 | 32.804 | 4.90 | 0.56 | 26.004 | 0.169 | 1467. | 3.2 | |
| 83 | 84.1 | 4.367 | 32.811 | 4.90 | 0.57 | 26.008 | 0.171 | 1467. | 3.2 | |
| 84 | 85.1 | 4.368 | 32.811 | 4.87 | 0.58 | 26.008 | 0.173 | 1467. | 3.2 | |

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| SHIP OC | CRUISE 181 | STATION 55 | DATE 11 FEB 1987 | | | EST 0339 | LATITUDE 42°23.6'N | LONGITUDE 70°30.1'W | DEPTH 90 | |
|------------|---------------|---------------|---------------------|-------------|------------------------|----------------------------|--|------------------------|-------------|--|
| DEPTH m | PRESS dbar | TEMP °C | SALIN psu | OXY ml/l | ATN m ⁻¹ | SIGT gm/cm ³ | DYHT A 10m ² /s ² | S SPD m/s | N cph | |
| 85 | 85.7 | 4.373 | 32.814 | 4.85 | 0.60 | 26.009 | 0.174 | 1467. | 3.2 | |

| SHIP OC | CRUISE 181 | STATION 56 | DATE 11 FEB 1987 | | EST 0416 | LATITUDE 42°23.5'N | LONGITUDE 70°25.1'W | DEPTH 31 | | |
|------------|---------------|---------------|---------------------|-------------|------------------------|----------------------------|--|--------------|----------|--|
| DEPTH m | PRESS dbar | TEMP °C | SALIN psu | OXY ml/l | ATN m ⁻¹ | SIGT gm/cm ³ | DYHT A 10m ² /s ² | S SPD m/s | N cph | |
| 2 | 2.5 | 3.861 | 32.663 | 4.88 | 0.57 | 25.941 | 0.000 | 1463. | -0.2 | |
| 4 | 4.1 | 3.866 | 32.663 | 4.91 | 0.57 | 25.941 | 0.003 | 1463. | -0.2 | |
| 6 | 6.1 | 3.870 | 32.663 | 4.93 | 0.57 | 25.940 | 0.007 | 1463. | -0.2 | |
| 8 | 8.1 | 3.870 | 32.663 | 4.94 | 0.57 | 25.941 | 0.012 | 1463. | -0.2 | |
| 10 | 10.0 | 3.870 | 32.663 | 4.94 | 0.57 | 25.940 | 0.015 | 1463. | -0.2 | |
| 12 | 12.1 | 3.869 | 32.663 | 4.95 | 0.57 | 25.941 | 0.020 | 1463. | 0.3 | |
| 14 | 13.9 | 3.870 | 32.663 | 4.95 | 0.57 | 25.941 | 0.024 | 1463. | 0.4 | |
| 15 | 15.2 | 3.869 | 32.663 | 4.95 | 0.56 | 25.941 | 0.026 | 1463. | 0.2 | |
| 16 | 16.0 | 3.870 | 32.664 | 4.96 | 0.57 | 25.941 | 0.028 | 1463. | -0.1 | |
| 17 | 17.1 | 3.869 | 32.664 | 4.96 | 0.57 | 25.941 | 0.030 | 1463. | -0.3 | |
| 18 | 18.0 | 3.871 | 32.664 | 4.96 | 0.57 | 25.941 | 0.032 | 1463. | -0.5 | |
| 19 | 19.0 | 3.873 | 32.663 | 4.96 | 0.57 | 25.940 | 0.034 | 1463. | -0.6 | |
| 20 | 19.9 | 3.873 | 32.663 | 4.95 | 0.57 | 25.940 | 0.036 | 1463. | -0.6 | |
| 21 | 21.0 | 3.876 | 32.664 | 4.96 | 0.57 | 25.941 | 0.038 | 1463. | -0.6 | |
| 22 | 22.0 | 3.879 | 32.664 | 4.96 | 0.58 | 25.940 | 0.040 | 1463. | -0.5 | |
| 23 | 23.0 | 3.879 | 32.664 | 4.95 | 0.57 | 25.940 | 0.042 | 1463. | -0.4 | |
| 24 | 23.9 | 3.878 | 32.664 | 4.95 | 0.57 | 25.940 | 0.044 | 1463. | -0.5 | |
| 25 | 25.0 | 3.877 | 32.663 | 4.95 | 0.57 | 25.940 | 0.046 | 1464. | -0.5 | |
| 26 | 26.0 | 3.877 | 32.664 | 4.95 | 0.57 | 25.940 | 0.048 | 1464. | -0.5 | |
| 27 | 26.9 | 3.880 | 32.664 | 4.95 | 0.57 | 25.940 | 0.050 | 1464. | -0.5 | |
| 28 | 28.0 | 3.881 | 32.663 | 4.96 | 0.57 | 25.940 | 0.052 | 1464. | -0.5 | |
| 29 | 29.0 | 3.879 | 32.663 | 4.96 | 0.57 | 25.940 | 0.055 | 1464. | -0.5 | |
| 30 | 29.8 | 3.873 | 32.662 | 4.95 | 0.57 | 25.939 | 0.056 | 1464. | -0.5 | |

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| SHIP OC | CRUISE 181 | STATION 57 | DATE 11 FEB 1987 | | EST 0531 | LATITUDE 42°25.0'N | LONGITUDE 70°14.3'W | DEPTH 68 | | | |
|------------|---------------|---------------|---------------------|-------------|------------------------|----------------------------|--|--------------|----------|--|--|
| DEPTH m | PRESS dbar | TEMP °C | SALIN psu | OXY ml/l | ATN m ⁻¹ | SIGT gm/cm ³ | DYHT A 10m ² /s ² | S SPD m/s | N cph | | |
| 1 | 0.9 | 4.350 | 32.844 | 4.72 | 0.32 | 26.036 | 0.000 | 1465. | -1.2 | | |
| 2 | 2.2 | 4.355 | 32.843 | 4.75 | 0.31 | 26.035 | 0.003 | 1465. | -1.2 | | |
| 4 | 4.0 | 4.353 | 32.843 | 4.75 | 0.29 | 26.035 | 0.006 | 1465. | -1.2 | | |
| 6 | 6.0 | 4.355 | 32.843 | 4.70 | 0.29 | 26.035 | 0.010 | 1465. | -1.2 | | |
| 8 | 8.0 | 4.360 | 32.842 | 4.71 | 0.30 | 26.034 | 0.014 | 1465. | -1.2 | | |
| 10 | 9.9 | 4.365 | 32.843 | 4.74 | 0.29 | 26.033 | 0.018 | 1466. | -1.1 | | |
| 12 | 11.8 | 4.364 | 32.843 | 4.77 | 0.29 | 26.033 | 0.021 | 1466. | -0.9 | | |
| 14 | 13.8 | 4.365 | 32.828 | 4.79 | 0.30 | 26.022 | 0.025 | 1466. | -0.5 | | |
| 16 | 16.0 | 4.367 | 32.843 | 4.80 | 0.29 | 26.033 | 0.030 | 1466. | 0.5 | | |
| 18 | 18.1 | 4.369 | 32.840 | 4.80 | 0.29 | 26.031 | 0.034 | 1466. | 0.8 | | |
| 20 | 19.9 | 4.368 | 32.843 | 4.80 | 0.29 | 26.033 | 0.037 | 1466. | 1.0 | | |
| 22 | 22.0 | 4.369 | 32.843 | 4.81 | 0.29 | 26.033 | 0.041 | 1466. | 1.2 | | |
| 24 | 23.8 | 4.370 | 32.843 | 4.81 | 0.29 | 26.033 | 0.045 | 1466. | 0.5 | | |
| 26 | 26.0 | 4.370 | 32.843 | 4.81 | 0.29 | 26.033 | 0.049 | 1466. | 0.6 | | |
| 28 | 27.7 | 4.367 | 32.843 | 4.82 | 0.29 | 26.033 | 0.053 | 1466. | 0.3 | | |
| 30 | 30.1 | 4.367 | 32.844 | 4.83 | 0.29 | 26.034 | 0.057 | 1466. | 0.4 | | |
| 32 | 32.0 | 4.368 | 32.844 | 4.83 | 0.29 | 26.034 | 0.061 | 1466. | 0.4 | | |
| 34 | 34.0 | 4.369 | 32.844 | 4.82 | 0.29 | 26.034 | 0.065 | 1466. | 0.3 | | |
| 36 | 35.9 | 4.370 | 32.843 | 4.83 | 0.30 | 26.034 | 0.069 | 1466. | 0.2 | | |
| 37 | 37.7 | 4.371 | 32.844 | 4.84 | 0.30 | 26.034 | 0.072 | 1466. | 0.4 | | |
| 40 | 40.1 | 4.377 | 32.845 | 4.85 | 0.29 | 26.034 | 0.077 | 1466. | 0.5 | | |
| 42 | 42.1 | 4.372 | 32.843 | 4.86 | 0.30 | 26.033 | 0.081 | 1466. | 0.5 | | |
| 44 | 43.9 | 4.364 | 32.843 | 4.85 | 0.31 | 26.034 | 0.084 | 1466. | 0.4 | | |
| 45 | 45.7 | 4.356 | 32.843 | 4.84 | 0.31 | 26.035 | 0.088 | 1466. | 0.3 | | |
| 48 | 47.9 | 4.365 | 32.844 | 4.85 | 0.30 | 26.035 | 0.092 | 1466. | 0.4 | | |
| 50 | 50.0 | 4.375 | 32.845 | 4.86 | 0.30 | 26.034 | 0.097 | 1466. | 0.4 | | |
| 52 | 52.0 | 4.372 | 32.844 | 4.84 | 0.30 | 26.034 | 0.100 | 1466. | 0.3 | | |
| 53 | 53.3 | 4.368 | 32.844 | 4.83 | 0.30 | 26.034 | 0.103 | 1466. | 0.4 | | |
| 54 | 53.9 | 4.365 | 32.844 | 4.81 | 0.31 | 26.035 | 0.104 | 1466. | 0.7 | | |
| 55 | 55.0 | 4.357 | 32.843 | 4.82 | 0.31 | 26.035 | 0.106 | 1466. | 0.9 | | |
| 55 | 55.8 | 4.356 | 32.844 | 4.83 | 0.31 | 26.035 | 0.108 | 1466. | 0.9 | | |
| 57 | 57.1 | 4.353 | 32.844 | 4.86 | 0.31 | 26.036 | 0.111 | 1466. | 0.8 | | |
| 58 | 58.0 | 4.354 | 32.844 | 4.88 | 0.31 | 26.035 | 0.112 | 1466. | 0.6 | | |
| 59 | 59.0 | 4.354 | 32.844 | 4.88 | 0.31 | 26.035 | 0.114 | 1466. | 0.6 | | |
| 60 | 60.0 | 4.353 | 32.844 | 4.87 | 0.31 | 26.035 | 0.116 | 1466. | 0.6 | | |
| 60 | 61.0 | 4.351 | 32.844 | 4.86 | 0.31 | 26.036 | 0.118 | 1466. | 0.6 | | |
| 62 | 62.0 | 4.351 | 32.844 | 4.87 | 0.31 | 26.036 | 0.120 | 1466. | 0.6 | | |
| 63 | 63.1 | 4.353 | 32.844 | 4.88 | 0.31 | 26.036 | 0.122 | 1466. | 0.6 | | |

| SHIP OC | CRUISE 181 | STATION 58 | DATE 11 FEB 1987 | | | EST 0654 | LATITUDE 42°27.0'N | LONGITUDE 70°00.2'W | DEPTH 190 | | |
|---------|------------|------------|------------------|----------|---------------------|-------------------------|---|---------------------|-----------|--|--|
| DEPTH m | PRESS dbar | TEMP °C | SALIN psu | OXY ml/l | ATN m ⁻¹ | SIGT gm/cm ³ | DYHT A 10m ² /s ² | S SPD m/s | N cph | | |
| 2 | 2.1 | 5.575 | 33.094 | 4.49 | 0.17 | 26.099 | 0.000 | 1471. | 0.7 | | |
| 4 | 3.9 | 5.576 | 33.086 | 4.49 | 0.17 | 26.092 | 0.003 | 1471. | 0.7 | | |
| 6 | 6.0 | 5.577 | 33.094 | 4.49 | 0.17 | 26.098 | 0.007 | 1471. | 0.7 | | |
| 8 | 7.9 | 5.576 | 33.094 | 4.47 | 0.16 | 26.098 | 0.011 | 1471. | 0.7 | | |
| 10 | 10.0 | 5.574 | 33.094 | 4.51 | 0.16 | 26.098 | 0.015 | 1471. | 0.7 | | |
| 12 | 12.3 | 5.574 | 33.094 | 4.54 | 0.16 | 26.099 | 0.019 | 1471. | 0.8 | | |
| 14 | 13.8 | 5.576 | 33.095 | 4.53 | 0.16 | 26.099 | 0.022 | 1471. | 0.2 | | |
| 16 | 16.1 | 5.579 | 33.095 | 4.55 | 0.16 | 26.098 | 0.027 | 1471. | 0.2 | | |
| 18 | 17.9 | 5.580 | 33.095 | 4.55 | 0.16 | 26.098 | 0.030 | 1471. | 0.4 | | |
| 20 | 20.0 | 5.581 | 33.095 | 4.55 | 0.16 | 26.098 | 0.034 | 1471. | 0.3 | | |
| 22 | 22.0 | 5.577 | 33.094 | 4.56 | 0.16 | 26.098 | 0.038 | 1471. | 0.5 | | |
| 24 | 23.9 | 5.580 | 33.095 | 4.56 | 0.16 | 26.099 | 0.042 | 1471. | 0.5 | | |
| 26 | 26.0 | 5.588 | 33.098 | 4.57 | 0.16 | 26.100 | 0.046 | 1471. | 0.4 | | |
| 28 | 28.3 | 5.587 | 33.096 | 4.58 | 0.16 | 26.099 | 0.050 | 1471. | 0.3 | | |
| 30 | 29.9 | 5.590 | 33.098 | 4.57 | 0.16 | 26.100 | 0.053 | 1471. | 0.2 | | |
| 32 | 32.1 | 5.586 | 33.096 | 4.59 | 0.16 | 26.099 | 0.057 | 1471. | -0.3 | | |
| 34 | 34.0 | 5.586 | 33.096 | 4.60 | 0.16 | 26.099 | 0.061 | 1471. | -0.4 | | |
| 36 | 35.9 | 5.585 | 33.096 | 4.60 | 0.16 | 26.099 | 0.064 | 1471. | -0.3 | | |
| 38 | 38.0 | 5.588 | 33.097 | 4.62 | 0.16 | 26.099 | 0.068 | 1471. | -0.2 | | |
| 40 | 40.0 | 5.587 | 33.096 | 4.63 | 0.16 | 26.098 | 0.072 | 1471. | -0.3 | | |
| 42 | 42.1 | 5.585 | 33.096 | 4.64 | 0.16 | 26.099 | 0.076 | 1471. | -0.3 | | |
| 44 | 44.0 | 5.585 | 33.095 | 4.64 | 0.16 | 26.098 | 0.080 | 1471. | -0.2 | | |
| 46 | 45.9 | 5.595 | 33.099 | 4.63 | 0.16 | 26.100 | 0.084 | 1471. | 0.4 | | |
| 48 | 48.1 | 5.590 | 33.095 | 4.63 | 0.16 | 26.097 | 0.088 | 1471. | 0.5 | | |
| 49 | 49.9 | 5.583 | 33.095 | 4.63 | 0.16 | 26.098 | 0.091 | 1471. | 0.7 | | |
| 52 | 52.0 | 5.586 | 33.096 | 4.64 | 0.16 | 26.099 | 0.095 | 1472. | 0.9 | | |
| 54 | 54.0 | 5.610 | 33.102 | 4.63 | 0.16 | 26.100 | 0.099 | 1472. | 1.1 | | |
| 56 | 56.0 | 5.609 | 33.100 | 4.64 | 0.17 | 26.099 | 0.103 | 1472. | 1.2 | | |
| 57 | 57.9 | 5.626 | 33.106 | 4.63 | 0.17 | 26.102 | 0.106 | 1472. | 1.2 | | |
| 59 | 59.9 | 5.636 | 33.108 | 4.62 | 0.17 | 26.102 | 0.110 | 1472. | 1.1 | | |
| 62 | 62.2 | 5.645 | 33.112 | 4.63 | 0.17 | 26.104 | 0.115 | 1472. | 1.1 | | |
| 63 | 63.8 | 5.647 | 33.112 | 4.62 | 0.17 | 26.104 | 0.118 | 1472. | 1.2 | | |
| 66 | 66.2 | 5.649 | 33.113 | 4.62 | 0.17 | 26.104 | 0.122 | 1472. | 1.1 | | |
| 67 | 67.9 | 5.650 | 33.113 | 4.61 | 0.17 | 26.105 | 0.126 | 1472. | 1.1 | | |
| 69 | 69.9 | 5.661 | 33.116 | 4.61 | 0.17 | 26.106 | 0.129 | 1472. | 1.1 | | |
| 72 | 72.2 | 5.681 | 33.123 | 4.62 | 0.17 | 26.108 | 0.134 | 1472. | 1.1 | | |
| 73 | 73.9 | 5.688 | 33.124 | 4.61 | 0.17 | 26.109 | 0.137 | 1472. | 1.0 | | |
| 76 | 76.2 | 5.689 | 33.125 | 4.61 | 0.17 | 26.109 | 0.141 | 1472. | 0.9 | | |
| 77 | 78.1 | 5.689 | 33.124 | 4.61 | 0.17 | 26.109 | 0.145 | 1472. | 0.7 | | |
| 79 | 79.7 | 5.688 | 33.124 | 4.61 | 0.17 | 26.109 | 0.148 | 1472. | 0.3 | | |
| 82 | 82.3 | 5.692 | 33.125 | 4.62 | 0.17 | 26.109 | 0.153 | 1472. | 0.2 | | |
| 83 | 83.9 | 5.692 | 33.125 | 4.61 | 0.17 | 26.109 | 0.156 | 1473. | 0.2 | | |
| 85 | 86.0 | 5.693 | 33.125 | 4.61 | 0.17 | 26.109 | 0.160 | 1473. | 0.2 | | |
| 87 | 88.0 | 5.692 | 33.125 | 4.62 | 0.17 | 26.108 | 0.164 | 1473. | 0.1 | | |
| 89 | 89.9 | 5.693 | 33.125 | 4.62 | 0.17 | 26.109 | 0.167 | 1473. | -0.2 | | |
| 91 | 92.1 | 5.693 | 33.125 | 4.61 | 0.17 | 26.109 | 0.172 | 1473. | -0.2 | | |
| 93 | 94.0 | 5.692 | 33.125 | 4.62 | 0.17 | 26.109 | 0.175 | 1473. | 0.1 | | |
| 95 | 96.1 | 5.694 | 33.125 | 4.63 | 0.18 | 26.109 | 0.179 | 1473. | 0.2 | | |
| 97 | 97.8 | 5.692 | 33.125 | 4.63 | 0.19 | 26.108 | 0.182 | 1473. | 0.2 | | |
| 99 | 100.1 | 5.691 | 33.125 | 4.64 | 0.17 | 26.109 | 0.187 | 1473. | 0.2 | | |

| SHIP OC | CRUISE 181 | STATION 58 | DATE 11 FEB 1987 | | | EST 0654 | LATITUDE 42°27.0'N | LONGITUDE 70°00.2'W | DEPTH 190 | | |
|---------|------------|------------|------------------|----------|---------------------|-------------------------|---|---------------------|-----------|--|--|
| DEPTH m | PRESS dbar | TEMP °C | SALIN psu | OXY ml/l | ATN m ⁻¹ | SIGT gm/cm ³ | DYHT A 10m ² /s ² | S SPD m/s | N cph | | |
| 101 | 101.9 | 5.695 | 33.125 | 4.64 | 0.16 | 26.109 | 0.190 | 1473. | 0.2 | | |
| 103 | 104.1 | 5.697 | 33.126 | 4.64 | 0.17 | 26.109 | 0.194 | 1473. | 0.2 | | |
| 105 | 106.0 | 5.698 | 33.126 | 4.63 | 0.16 | 26.109 | 0.198 | 1473. | 0.1 | | |
| 107 | 108.0 | 5.697 | 33.126 | 4.63 | 0.16 | 26.109 | 0.202 | 1473. | 0.1 | | |
| 109 | 110.0 | 5.697 | 33.126 | 4.63 | 0.16 | 26.109 | 0.206 | 1473. | -0.1 | | |
| 111 | 111.9 | 5.697 | 33.126 | 4.63 | 0.17 | 26.109 | 0.209 | 1473. | -0.1 | | |
| 113 | 114.2 | 5.697 | 33.125 | 4.63 | 0.16 | 26.108 | 0.214 | 1473. | -0.2 | | |
| 115 | 115.8 | 5.697 | 33.126 | 4.62 | 0.16 | 26.109 | 0.217 | 1473. | -0.2 | | |
| 117 | 118.1 | 5.697 | 33.126 | 4.62 | 0.17 | 26.109 | 0.221 | 1473. | -0.2 | | |
| 119 | 119.9 | 5.697 | 33.125 | 4.62 | 0.16 | 26.108 | 0.224 | 1473. | -0.2 | | |
| 121 | 122.0 | 5.698 | 33.125 | 4.62 | 0.16 | 26.108 | 0.228 | 1473. | 0.1 | | |
| 123 | 123.7 | 5.698 | 33.125 | 4.62 | 0.16 | 26.108 | 0.232 | 1473. | 0.2 | | |
| 125 | 126.1 | 5.698 | 33.125 | 4.63 | 0.16 | 26.108 | 0.236 | 1473. | 0.4 | | |
| 127 | 127.8 | 5.698 | 33.126 | 4.62 | 0.16 | 26.109 | 0.239 | 1473. | 0.4 | | |
| 129 | 130.2 | 5.698 | 33.126 | 4.62 | 0.16 | 26.109 | 0.244 | 1473. | 0.3 | | |
| 131 | 131.8 | 5.698 | 33.126 | 4.61 | 0.16 | 26.109 | 0.247 | 1473. | 0.2 | | |
| 133 | 134.1 | 5.698 | 33.126 | 4.62 | 0.16 | 26.109 | 0.252 | 1473. | 0.2 | | |
| 135 | 136.0 | 5.699 | 33.126 | 4.62 | 0.16 | 26.109 | 0.255 | 1473. | -0.2 | | |
| 137 | 137.9 | 5.699 | 33.126 | 4.61 | 0.16 | 26.108 | 0.259 | 1473. | -0.2 | | |
| 139 | 140.1 | 5.700 | 33.126 | 4.61 | 0.16 | 26.108 | 0.263 | 1473. | -0.3 | | |
| 141 | 141.9 | 5.700 | 33.126 | 4.62 | 0.16 | 26.109 | 0.266 | 1473. | -0.3 | | |
| 143 | 144.1 | 5.698 | 33.126 | 4.62 | 0.16 | 26.108 | 0.271 | 1474. | -0.6 | | |
| 145 | 145.9 | 5.696 | 33.125 | 4.62 | 0.16 | 26.108 | 0.274 | 1474. | -0.7 | | |
| 147 | 148.2 | 5.693 | 33.124 | 4.62 | 0.16 | 26.108 | 0.278 | 1474. | -0.6 | | |
| 149 | 149.9 | 5.692 | 33.124 | 4.62 | 0.18 | 26.108 | 0.282 | 1474. | -0.5 | | |
| 151 | 152.1 | 5.686 | 33.120 | 4.62 | 0.19 | 26.106 | 0.286 | 1474. | -0.3 | | |
| 153 | 154.0 | 5.686 | 33.120 | 4.62 | 0.16 | 26.106 | 0.290 | 1474. | 0.4 | | |
| 155 | 156.0 | 5.683 | 33.122 | 4.62 | 0.16 | 26.108 | 0.293 | 1474. | 0.7 | | |
| 157 | 158.0 | 5.683 | 33.123 | 4.62 | 0.17 | 26.108 | 0.297 | 1474. | 0.9 | | |
| 159 | 160.2 | 5.683 | 33.123 | 4.62 | 0.17 | 26.108 | 0.301 | 1474. | 1.0 | | |
| 161 | 162.1 | 5.682 | 33.124 | 4.62 | 0.17 | 26.109 | 0.305 | 1474. | 1.0 | | |
| 162 | 163.8 | 5.682 | 33.124 | 4.62 | 0.17 | 26.109 | 0.308 | 1474. | 0.9 | | |
| 165 | 166.2 | 5.682 | 33.125 | 4.62 | 0.17 | 26.110 | 0.313 | 1474. | 0.8 | | |
| 167 | 168.1 | 5.682 | 33.126 | 4.62 | 0.18 | 26.110 | 0.317 | 1474. | 0.7 | | |
| 168 | 169.9 | 5.681 | 33.126 | 4.62 | 0.18 | 26.111 | 0.320 | 1474. | 0.6 | | |
| 170 | 171.3 | 5.682 | 33.126 | 4.62 | 0.19 | 26.111 | 0.323 | 1474. | 0.5 | | |
| 171 | 172.0 | 5.682 | 33.126 | 4.62 | 0.19 | 26.111 | 0.324 | 1474. | 0.3 | | |
| 172 | 173.0 | 5.682 | 33.125 | 4.62 | 0.17 | 26.110 | 0.326 | 1474. | 0.2 | | |
| 173 | 174.1 | 5.682 | 33.125 | 4.63 | 0.18 | 26.110 | 0.328 | 1474. | 0.2 | | |
| 174 | 175.0 | 5.682 | 33.126 | 4.63 | 0.18 | 26.111 | 0.330 | 1474. | 0.1 | | |
| 175 | 176.0 | 5.682 | 33.126 | 4.63 | 0.18 | 26.111 | 0.332 | 1474. | 0.4 | | |
| 176 | 177.0 | 5.681 | 33.126 | 4.63 | 0.18 | 26.111 | 0.333 | 1474. | 0.5 | | |
| 176 | 178.0 | 5.681 | 33.126 | 4.63 | 0.18 | 26.111 | 0.335 | 1474. | 0.4 | | |
| 178 | 179.1 | 5.682 | 33.125 | 4.63 | 0.19 | 26.110 | 0.337 | 1474. | -0.1 | | |
| 178 | 179.9 | 5.682 | 33.126 | 4.63 | 0.19 | 26.111 | 0.339 | 1474. | -0.2 | | |
| 180 | 181.1 | 5.682 | 33.126 | 4.62 | 0.20 | 26.111 | 0.341 | 1474. | -0.1 | | |
| 180 | 181.9 | 5.682 | 33.126 | 4.62 | 0.19 | 26.111 | 0.343 | 1474. | -0.2 | | |
| 182 | 183.0 | 5.682 | 33.125 | 4.62 | 0.19 | 26.110 | 0.345 | 1474. | -0.2 | | |
| 182 | 184.0 | 5.683 | 33.126 | 4.62 | 0.20 | 26.111 | 0.347 | 1474. | -0.2 | | |
| 183 | 185.0 | 5.683 | 33.126 | 4.61 | 0.20 | 26.111 | 0.349 | 1474. | -0.2 | | |

| SHIP | CRUISE | STATION | DATE | | EST | LATITUDE | LONGITUDE | | DEPTH |
|-------|--------|---------|-------------|------|-----------------|--------------------|----------------------------------|-------|-------|
| OC | 181 | 58 | 11 FEB 1987 | | 0654 | 42°27.0'N | 70°00.2'W | | 190 |
| DEPTH | PRESS | TEMP | SALIN | OXY | ATN | SIGT | DYHT A | S SPD | N |
| m | dbar | °C | psu | ml/l | m ⁻¹ | gm/cm ³ | 10m ² /s ² | m/s | cph |
| 184 | 186.0 | 5.683 | 33.126 | 4.60 | 0.19 | 26.111 | 0.351 | 1474. | -0.2 |
| 185 | 186.7 | 5.682 | 33.125 | 4.60 | 0.20 | 26.110 | 0.352 | 1474. | -0.2 |

| SHIP | CRUISE | STATION | DATE | | EST | LATITUDE | LONGITUDE | | DEPTH |
|-------|--------|---------|-------------|------|-----------------|--------------------|----------------------------------|-------|-------|
| OC | 181 | 59 | 11 FEB 1987 | | 0822 | 42°29.0'N | 69°44.8'W | | 277 |
| DEPTH | PRESS | TEMP | SALIN | OXY | ATN | SIGT | DYHT A | S SPD | N |
| m | dbar | °C | psu | ml/l | m ⁻¹ | gm/cm ³ | 10m ² /s ² | m/s | cph |
| 2 | 2.3 | 5.589 | 33.142 | 4.44 | 0.19 | 26.134 | 0.000 | 1471. | -0.7 |
| 4 | 3.9 | 5.587 | 33.141 | 4.42 | 0.18 | 26.134 | 0.003 | 1471. | -0.7 |
| 6 | 6.1 | 5.591 | 33.141 | 4.41 | 0.17 | 26.134 | 0.007 | 1471. | -0.7 |
| 8 | 7.8 | 5.588 | 33.141 | 4.43 | 0.17 | 26.134 | 0.010 | 1471. | -0.7 |
| 10 | 10.0 | 5.595 | 33.142 | 4.44 | 0.17 | 26.134 | 0.015 | 1471. | -0.7 |
| 12 | 12.0 | 5.595 | 33.141 | 4.47 | 0.17 | 26.133 | 0.018 | 1471. | -0.7 |
| 14 | 13.9 | 5.599 | 33.141 | 4.47 | 0.17 | 26.133 | 0.022 | 1471. | -0.6 |
| 16 | 15.9 | 5.600 | 33.141 | 4.48 | 0.17 | 26.133 | 0.026 | 1471. | -0.6 |
| 18 | 18.0 | 5.603 | 33.141 | 4.50 | 0.17 | 26.132 | 0.030 | 1471. | -0.5 |
| 20 | 20.0 | 5.610 | 33.142 | 4.50 | 0.17 | 26.132 | 0.033 | 1471. | -0.9 |
| 22 | 22.0 | 5.624 | 33.144 | 4.50 | 0.17 | 26.132 | 0.037 | 1471. | -0.8 |
| 24 | 24.1 | 5.624 | 33.144 | 4.50 | 0.17 | 26.132 | 0.041 | 1471. | -0.7 |
| 26 | 25.9 | 5.630 | 33.145 | 4.50 | 0.17 | 26.132 | 0.044 | 1471. | -0.4 |
| 28 | 28.1 | 5.632 | 33.137 | 4.50 | 0.17 | 26.126 | 0.048 | 1471. | -0.2 |
| 30 | 29.8 | 5.626 | 33.144 | 4.51 | 0.17 | 26.132 | 0.052 | 1471. | 0.3 |
| 32 | 32.0 | 5.615 | 33.142 | 4.51 | 0.17 | 26.132 | 0.056 | 1471. | 0.5 |
| 34 | 34.2 | 5.611 | 33.142 | 4.52 | 0.17 | 26.132 | 0.060 | 1471. | 0.6 |
| 36 | 35.9 | 5.614 | 33.142 | 4.52 | 0.17 | 26.132 | 0.063 | 1471. | 0.8 |
| 38 | 38.1 | 5.613 | 33.142 | 4.52 | 0.17 | 26.132 | 0.067 | 1471. | 0.1 |
| 40 | 39.9 | 5.611 | 33.141 | 4.53 | 0.17 | 26.131 | 0.071 | 1471. | 0.2 |
| 42 | 42.1 | 5.612 | 33.141 | 4.54 | 0.17 | 26.131 | 0.075 | 1472. | 0.4 |
| 43 | 43.8 | 5.612 | 33.142 | 4.54 | 0.17 | 26.131 | 0.078 | 1472. | 0.6 |
| 46 | 46.0 | 5.624 | 33.144 | 4.55 | 0.17 | 26.132 | 0.082 | 1472. | 0.6 |
| 48 | 47.9 | 5.632 | 33.145 | 4.55 | 0.17 | 26.132 | 0.086 | 1472. | 0.6 |
| 50 | 50.0 | 5.637 | 33.147 | 4.55 | 0.17 | 26.133 | 0.090 | 1472. | 0.6 |
| 51 | 51.9 | 5.647 | 33.149 | 4.56 | 0.17 | 26.133 | 0.093 | 1472. | 0.5 |
| 54 | 54.0 | 5.649 | 33.148 | 4.57 | 0.17 | 26.132 | 0.097 | 1472. | 0.5 |
| 56 | 56.0 | 5.652 | 33.149 | 4.56 | 0.17 | 26.133 | 0.101 | 1472. | 0.5 |
| 58 | 58.1 | 5.654 | 33.150 | 4.56 | 0.17 | 26.133 | 0.105 | 1472. | 0.4 |
| 60 | 60.3 | 5.656 | 33.150 | 4.56 | 0.17 | 26.133 | 0.109 | 1472. | 0.5 |
| 61 | 61.9 | 5.658 | 33.151 | 4.56 | 0.17 | 26.133 | 0.112 | 1472. | 0.5 |
| 63 | 63.9 | 5.660 | 33.152 | 4.55 | 0.17 | 26.134 | 0.116 | 1472. | 0.4 |
| 66 | 66.2 | 5.661 | 33.152 | 4.53 | 0.17 | 26.134 | 0.120 | 1472. | 0.5 |
| 67 | 67.9 | 5.662 | 33.152 | 4.53 | 0.17 | 26.134 | 0.123 | 1472. | 0.6 |
| 69 | 69.9 | 5.658 | 33.151 | 4.54 | 0.17 | 26.133 | 0.127 | 1472. | 0.6 |
| 71 | 72.0 | 5.662 | 33.152 | 4.55 | 0.17 | 26.134 | 0.131 | 1472. | 0.6 |
| 73 | 74.1 | 5.672 | 33.155 | 4.56 | 0.17 | 26.135 | 0.135 | 1472. | 0.7 |
| 75 | 75.7 | 5.674 | 33.155 | 4.56 | 0.17 | 26.135 | 0.138 | 1472. | 0.7 |
| 77 | 78.0 | 5.681 | 33.157 | 4.58 | 0.17 | 26.135 | 0.142 | 1472. | 0.8 |
| 80 | 80.2 | 5.674 | 33.155 | 4.60 | 0.17 | 26.135 | 0.146 | 1472. | 0.8 |
| 81 | 82.0 | 5.683 | 33.158 | 4.60 | 0.17 | 26.136 | 0.149 | 1472. | 0.7 |
| 83 | 84.1 | 5.693 | 33.159 | 4.61 | 0.17 | 26.136 | 0.154 | 1473. | 0.8 |
| 85 | 86.0 | 5.699 | 33.162 | 4.61 | 0.17 | 26.137 | 0.157 | 1473. | 0.8 |
| 87 | 88.1 | 5.706 | 33.163 | 4.61 | 0.17 | 26.137 | 0.161 | 1473. | 0.9 |
| 89 | 90.0 | 5.705 | 33.162 | 4.61 | 0.17 | 26.137 | 0.164 | 1473. | 0.8 |
| 91 | 92.1 | 5.718 | 33.166 | 4.61 | 0.17 | 26.138 | 0.169 | 1473. | 0.9 |
| 93 | 94.0 | 5.722 | 33.167 | 4.60 | 0.17 | 26.139 | 0.172 | 1473. | 0.9 |
| 95 | 96.0 | 5.729 | 33.168 | 4.60 | 0.17 | 26.138 | 0.176 | 1473. | 0.9 |
| 98 | 98.4 | 5.732 | 33.169 | 4.60 | 0.17 | 26.139 | 0.180 | 1473. | 0.9 |
| 99 | 99.9 | 5.749 | 33.174 | 4.59 | 0.16 | 26.141 | 0.183 | 1473. | 0.9 |

| SHIP OC | CRUISE 181 | STATION 59 | DATE 11 FEB 1987 | | | EST 0822 | LATITUDE 42°29.0'N | | LONGITUDE 69°44.8'W | | DEPTH 277 |
|---------|------------|------------|------------------|----------|---------------------|-------------------------|---|-----------|---------------------|--|-----------|
| DEPTH m | PRESS dbar | TEMP °C | SALIN psu | OXY ml/1 | ATN m ⁻¹ | SIGT gm/cm ³ | DYHT A 10m ² /s ² | S SPD m/s | N cph | | |
| 101 | 102.2 | 5.761 | 33.176 | 4.59 | 0.16 | 26.141 | 0.187 | 1473. | 0.9 | | |
| 103 | 103.9 | 5.761 | 33.176 | 4.59 | 0.16 | 26.141 | 0.191 | 1473. | 0.9 | | |
| 105 | 106.3 | 5.769 | 33.178 | 4.59 | 0.16 | 26.141 | 0.195 | 1473. | 0.8 | | |
| 107 | 107.9 | 5.777 | 33.180 | 4.58 | 0.16 | 26.142 | 0.198 | 1473. | 0.6 | | |
| 109 | 110.1 | 5.783 | 33.181 | 4.58 | 0.16 | 26.142 | 0.202 | 1473. | -0.4 | | |
| 111 | 111.8 | 5.784 | 33.181 | 4.58 | 0.16 | 26.142 | 0.205 | 1473. | -0.8 | | |
| 113 | 114.1 | 5.795 | 33.184 | 4.58 | 0.15 | 26.143 | 0.210 | 1473. | -1.0 | | |
| 115 | 115.9 | 5.797 | 33.182 | 4.58 | 0.15 | 26.141 | 0.213 | 1474. | -1.0 | | |
| 117 | 118.0 | 5.802 | 33.179 | 4.59 | 0.15 | 26.138 | 0.217 | 1474. | -1.1 | | |
| 119 | 119.9 | 5.807 | 33.179 | 4.58 | 0.15 | 26.138 | 0.221 | 1474. | -1.0 | | |
| 121 | 122.0 | 5.807 | 33.179 | 4.57 | 0.15 | 26.138 | 0.225 | 1474. | -0.9 | | |
| 123 | 124.2 | 5.807 | 33.179 | 4.58 | 0.15 | 26.138 | 0.229 | 1474. | -0.6 | | |
| 125 | 125.8 | 5.806 | 33.178 | 4.58 | 0.15 | 26.137 | 0.232 | 1474. | 0.3 | | |
| 127 | 128.2 | 5.805 | 33.179 | 4.58 | 0.15 | 26.138 | 0.236 | 1474. | 0.4 | | |
| 129 | 129.8 | 5.806 | 33.179 | 4.58 | 0.15 | 26.138 | 0.239 | 1474. | 0.1 | | |
| 131 | 132.2 | 5.808 | 33.180 | 4.59 | 0.15 | 26.138 | 0.244 | 1474. | -0.1 | | |
| 133 | 133.8 | 5.811 | 33.181 | 4.59 | 0.15 | 26.138 | 0.247 | 1474. | -0.1 | | |
| 135 | 136.3 | 5.813 | 33.180 | 4.59 | 0.15 | 26.138 | 0.252 | 1474. | -0.3 | | |
| 137 | 137.9 | 5.819 | 33.180 | 4.58 | 0.14 | 26.137 | 0.255 | 1474. | -0.3 | | |
| 139 | 140.0 | 5.822 | 33.181 | 4.58 | 0.14 | 26.138 | 0.258 | 1474. | -0.2 | | |
| 141 | 142.0 | 5.823 | 33.181 | 4.59 | 0.14 | 26.138 | 0.262 | 1474. | 0.2 | | |
| 143 | 143.9 | 5.826 | 33.182 | 4.59 | 0.14 | 26.138 | 0.266 | 1474. | 0.4 | | |
| 145 | 146.0 | 5.830 | 33.183 | 4.58 | 0.14 | 26.138 | 0.270 | 1474. | 0.4 | | |
| 147 | 148.0 | 5.834 | 33.184 | 4.59 | 0.14 | 26.138 | 0.274 | 1474. | 0.3 | | |
| 149 | 150.1 | 5.836 | 33.184 | 4.59 | 0.14 | 26.138 | 0.277 | 1474. | 0.4 | | |
| 151 | 152.0 | 5.840 | 33.185 | 4.58 | 0.14 | 26.138 | 0.281 | 1474. | 0.6 | | |
| 153 | 153.9 | 5.841 | 33.184 | 4.58 | 0.14 | 26.137 | 0.285 | 1474. | 0.7 | | |
| 155 | 156.1 | 5.843 | 33.185 | 4.58 | 0.13 | 26.138 | 0.289 | 1474. | 0.7 | | |
| 157 | 157.9 | 5.844 | 33.186 | 4.58 | 0.14 | 26.139 | 0.292 | 1474. | 0.8 | | |
| 159 | 160.0 | 5.849 | 33.188 | 4.58 | 0.13 | 26.140 | 0.296 | 1474. | 0.8 | | |
| 161 | 162.0 | 5.857 | 33.190 | 4.58 | 0.13 | 26.140 | 0.300 | 1475. | 0.8 | | |
| 163 | 164.0 | 5.857 | 33.190 | 4.58 | 0.13 | 26.140 | 0.304 | 1475. | 0.7 | | |
| 165 | 166.0 | 5.857 | 33.190 | 4.58 | 0.13 | 26.140 | 0.307 | 1475. | 0.7 | | |
| 167 | 168.1 | 5.860 | 33.191 | 4.58 | 0.13 | 26.141 | 0.311 | 1475. | 0.7 | | |
| 169 | 170.0 | 5.861 | 33.191 | 4.58 | 0.13 | 26.141 | 0.315 | 1475. | 0.8 | | |
| 171 | 172.0 | 5.864 | 33.192 | 4.58 | 0.13 | 26.141 | 0.319 | 1475. | 1.0 | | |
| 173 | 174.0 | 5.868 | 33.193 | 4.58 | 0.13 | 26.142 | 0.322 | 1475. | 1.1 | | |
| 175 | 176.1 | 5.875 | 33.195 | 4.58 | 0.13 | 26.142 | 0.326 | 1475. | 1.2 | | |
| 176 | 177.8 | 5.886 | 33.199 | 4.57 | 0.13 | 26.143 | 0.330 | 1475. | 1.2 | | |
| 179 | 180.1 | 5.904 | 33.204 | 4.56 | 0.12 | 26.146 | 0.334 | 1475. | 1.5 | | |
| 180 | 181.8 | 5.909 | 33.206 | 4.54 | 0.12 | 26.146 | 0.337 | 1475. | 1.9 | | |
| 183 | 184.1 | 5.913 | 33.206 | 4.52 | 0.12 | 26.146 | 0.341 | 1475. | 2.4 | | |
| 185 | 186.2 | 5.921 | 33.210 | 4.51 | 0.12 | 26.148 | 0.345 | 1475. | 3.1 | | |
| 186 | 187.7 | 5.957 | 33.223 | 4.48 | 0.12 | 26.154 | 0.348 | 1475. | 3.6 | | |
| 189 | 190.2 | 6.027 | 33.247 | 4.44 | 0.12 | 26.164 | 0.353 | 1476. | 4.5 | | |
| 190 | 191.9 | 6.082 | 33.271 | 4.41 | 0.13 | 26.177 | 0.356 | 1476. | 5.7 | | |
| 192 | 194.1 | 6.160 | 33.316 | 4.37 | 0.18 | 26.203 | 0.360 | 1476. | 6.4 | | |
| 194 | 195.8 | 6.179 | 33.332 | 4.32 | 0.21 | 26.213 | 0.363 | 1477. | 6.8 | | |
| 196 | 198.1 | 6.301 | 33.417 | 4.24 | 0.27 | 26.264 | 0.367 | 1477. | 6.9 | | |
| 198 | 200.0 | 6.487 | 33.528 | 4.16 | 0.31 | 26.328 | 0.371 | 1478. | 6.9 | | |

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| SHIP OC | CRUISE 181 | STATION 59 | DATE 11 FEB 1987 | | | EST 0822 | LATITUDE 42°29.0'N | | LONGITUDE 69°44.8'W | | DEPTH 277 |
|---------|------------|------------|------------------|----------|---------------------|-------------------------|---|-----------|---------------------|--|-----------|
| DEPTH m | PRESS dbar | TEMP °C | SALIN psu | OXY ml/1 | ATN m ⁻¹ | SIGT gm/cm ³ | DYHT A 10m ² /s ² | S SPD m/s | N cph | | |
| 200 | 201.9 | 6.582 | 33.580 | 4.06 | 0.29 | 26.357 | 0.374 | 1479. | 6.6 | | |
| 202 | 204.2 | 6.631 | 33.601 | 3.95 | 0.23 | 26.366 | 0.378 | 1479. | 6.1 | | |
| 204 | 205.8 | 6.662 | 33.618 | 3.87 | 0.17 | 26.375 | 0.380 | 1479. | 5.5 | | |
| 206 | 208.1 | 6.705 | 33.660 | 3.83 | 0.15 | 26.403 | 0.384 | 1479. | 4.8 | | |
| 208 | 209.9 | 6.713 | 33.668 | 3.79 | 0.17 | 26.409 | 0.387 | 1479. | 4.5 | | |
| 210 | 212.1 | 6.728 | 33.695 | 3.77 | 0.18 | 26.427 | 0.391 | 1479. | 4.4 | | |
| 212 | 213.9 | 6.734 | 33.711 | 3.76 | 0.20 | 26.440 | 0.394 | 1480. | 4.0 | | |
| 214 | 216.0 | 6.737 | 33.723 | 3.75 | 0.22 | 26.448 | 0.397 | 1480. | 3.6 | | |
| 216 | 218.0 | 6.739 | 33.730 | 3.75 | 0.23 | 26.454 | 0.400 | 1480. | 3.2 | | |
| 218 | 219.8 | 6.741 | 33.734 | 3.75 | 0.23 | 26.457 | 0.403 | 1480. | 2.9 | | |
| 220 | 222.0 | 6.742 | 33.740 | 3.76 | 0.24 | 26.461 | 0.407 | 1480. | 2.8 | | |
| 222 | 223.9 | 6.744 | 33.745 | 3.77 | 0.25 | 26.465 | 0.410 | 1480. | 2.8 | | |
| 224 | 226.0 | 6.745 | 33.748 | 3.77 | 0.26 | 26.467 | 0.413 | 1480. | 2.8 | | |
| 226 | 227.8 | 6.749 | 33.760 | 3.77 | 0.27 | 26.476 | 0.416 | 1480. | 2.9 | | |
| 228 | 230.1 | 6.755 | 33.772 | 3.77 | 0.30 | 26.485 | 0.419 | 1480. | 2.9 | | |
| 230 | 231.9 | 6.756 | 33.775 | 3.77 | 0.30 | 26.487 | 0.422 | 1480. | 2.9 | | |
| 232 | 234.1 | 6.759 | 33.780 | 3.77 | 0.29 | 26.491 | 0.426 | 1480. | 2.8 | | |
| 234 | 235.9 | 6.762 | 33.789 | 3.76 | 0.24 | 26.498 | 0.429 | 1480. | 2.6 | | |
| 236 | 238.0 | 6.762 | 33.796 | 3.76 | 0.25 | 26.503 | 0.432 | 1480. | 2.5 | | |
| 238 | 240.1 | 6.766 | 33.801 | 3.76 | 0.32 | 26.506 | 0.435 | 1480. | 2.4 | | |
| 240 | 241.9 | 6.770 | 33.805 | 3.75 | 0.38 | 26.509 | 0.438 | 1480. | 2.3 | | |
| 242 | 244.2 | 6.772 | 33.808 | 3.75 | 0.38 | 26.511 | 0.441 | 1480. | 2.1 | | |
| 244 | 246.0 | 6.770 | 33.812 | 3.75 | 0.35 | 26.514 | 0.444 | 1480. | 2.0 | | |
| 246 | 247.9 | 6.768 | 33.814 | 3.75 | 0.33 | 26.516 | 0.447 | 1480. | 2.1 | | |
| 248 | 250.2 | 6.768 | 33.818 | 3.75 | 0.32 | 26.519 | 0.451 | 1480. | 2.5 | | |
| 250 | 251.9 | 6.768 | 33.819 | 3.74 | 0.33 | 26.520 | 0.453 | 1480. | 2.8 | | |
| 252 | 254.1 | 6.766 | 33.822 | 3.74 | 0.29 | 26.522 | 0.457 | 1480. | 3.0 | | |
| 253 | 255.6 | 6.765 | 33.831 | 3.74 | 0.26 | 26.530 | 0.459 | 1480. | 3.2 | | |
| 256 | 258.2 | 6.779 | 33.858 | 3.73 | 0.39 | 26.549 | 0.463 | 1481. | 3.3 | | |
| 258 | 260.0 | 6.784 | 33.864 | 3.72 | 0.45 | 26.554 | 0.466 | 1481. | 3.3 | | |
| 259 | 261.2 | 6.785 | 33.865 | 3.71 | 0.46 | 26.554 | 0.467 | 1481. | 3.1 | | |
| 260 | 262.1 | 6.785 | 33.866 | 3.71 | 0.47 | 26.555 | 0.469 | 1481. | 2.6 | | |
| 261 | 262.9 | 6.786 | 33.866 | 3.71 | 0.48 | 26.555 | 0.470 | 1481. | 1.5 | | |
| 262 | 264.0 | 6.786 | 33.867 | 3.70 | 0.50 | 26.556 | 0.472 | 1481. | 1.0 | | |
| 263 | 265.0 | 6.786 | 33.868 | 3.70 | 0.51 | 26.556 | 0.473 | 1481. | 0.9 | | |
| 264 | 265.9 | 6.787 | 33.868 | 3.69 | 0.51 | 26.556 | 0.474 | 1481. | 0.8 | | |
| 265 | 267.1 | 6.787 | 33.868 | 3.69 | 0.52 | 26.556 | 0.476 | 1481. | 0.8 | | |
| 266 | 268.0 | 6.787 | 33.868 | 3.69 | 0.52 | 26.556 | 0.478 | 1481. | 0.8 | | |
| 267 | 269.0 | 6.787 | 33.868 | 3.69 | 0.53 | 26.556 | 0.479 | 1481. | 0.8 | | |
| 268 | 270.0 | 6.787 | 33.868 | 3.70 | 0.53 | 26.556 | 0.481 | 1481. | 0.8 | | |

| SHIP OC | CRUISE 181 | STATION 60 | DATE 11 FEB 1987 | | | EST 1004 | LATITUDE 42°30.7'N | LONGITUDE 69°29.1'W | DEPTH 278 | |
|---------|------------|------------|------------------|----------|---------------------|-------------------------|---|---------------------|-----------|--|
| DEPTH m | PRESS dbar | TEMP °C | SALIN psu | OXY ml/l | ATN m ⁻¹ | SIGT gm/cm ³ | DYHT A 10m ² /s ² | S SPD m/s | N cph | |
| 2 | 2.0 | 5.498 | 33.072 | 7.06 | 0.10 | 26.090 | 0.000 | 1470. | 0.3 | |
| 4 | 4.1 | 5.496 | 33.072 | 7.05 | 0.10 | 26.090 | 0.004 | 1470. | 0.3 | |
| 6 | 5.9 | 5.497 | 33.071 | 7.04 | 0.10 | 26.090 | 0.008 | 1470. | 0.3 | |
| 8 | 8.4 | 5.497 | 33.072 | 7.05 | 0.10 | 26.090 | 0.012 | 1470. | 0.3 | |
| 10 | 9.9 | 5.497 | 33.071 | 7.05 | 0.10 | 26.090 | 0.015 | 1470. | 0.3 | |
| 12 | 12.1 | 5.494 | 33.072 | 7.05 | 0.10 | 26.090 | 0.019 | 1470. | 0.2 | |
| 14 | 14.1 | 5.496 | 33.072 | 7.06 | 0.10 | 26.090 | 0.023 | 1471. | 0.2 | |
| 16 | 15.9 | 5.498 | 33.072 | 7.06 | 0.10 | 26.090 | 0.027 | 1471. | -0.2 | |
| 18 | 18.0 | 5.499 | 33.072 | 7.06 | 0.10 | 26.090 | 0.031 | 1471. | -0.2 | |
| 20 | 20.1 | 5.499 | 33.072 | 7.06 | 0.10 | 26.089 | 0.035 | 1471. | -0.3 | |
| 22 | 22.0 | 5.498 | 33.072 | 7.07 | 0.10 | 26.090 | 0.038 | 1471. | -0.3 | |
| 24 | 23.9 | 5.499 | 33.071 | 7.05 | 0.10 | 26.089 | 0.042 | 1471. | -0.2 | |
| 26 | 26.0 | 5.500 | 33.072 | 7.05 | 0.10 | 26.089 | 0.046 | 1471. | 0.3 | |
| 28 | 28.1 | 5.500 | 33.071 | 7.05 | 0.10 | 26.089 | 0.050 | 1471. | 0.5 | |
| 30 | 30.1 | 5.502 | 33.072 | 7.05 | 0.10 | 26.089 | 0.054 | 1471. | 0.5 | |
| 32 | 31.9 | 5.504 | 33.072 | 7.04 | 0.10 | 26.090 | 0.057 | 1471. | 0.6 | |
| 34 | 34.0 | 5.507 | 33.074 | 7.03 | 0.10 | 26.090 | 0.061 | 1471. | 0.7 | |
| 36 | 36.1 | 5.509 | 33.075 | 7.04 | 0.10 | 26.091 | 0.065 | 1471. | 0.8 | |
| 38 | 38.2 | 5.510 | 33.075 | 7.05 | 0.10 | 26.091 | 0.069 | 1471. | 0.8 | |
| 39 | 39.7 | 5.509 | 33.075 | 7.04 | 0.11 | 26.091 | 0.072 | 1471. | 0.8 | |
| 42 | 42.0 | 5.510 | 33.076 | 7.03 | 0.10 | 26.092 | 0.077 | 1471. | 0.7 | |
| 44 | 43.9 | 5.518 | 33.078 | 7.03 | 0.10 | 26.092 | 0.080 | 1471. | 0.6 | |
| 46 | 46.3 | 5.517 | 33.078 | 7.04 | 0.10 | 26.092 | 0.085 | 1471. | 0.5 | |
| 47 | 47.8 | 5.515 | 33.078 | 7.02 | 0.10 | 26.092 | 0.088 | 1471. | 0.2 | |
| 50 | 49.9 | 5.516 | 33.077 | 7.02 | 0.10 | 26.092 | 0.092 | 1471. | -0.2 | |
| 52 | 52.0 | 5.517 | 33.077 | 7.02 | 0.10 | 26.092 | 0.096 | 1471. | -0.3 | |
| 54 | 54.1 | 5.515 | 33.077 | 7.03 | 0.10 | 26.092 | 0.100 | 1471. | 0.0 | |
| 55 | 55.9 | 5.514 | 33.076 | 7.01 | 0.10 | 26.092 | 0.103 | 1471. | 0.4 | |
| 58 | 58.0 | 5.519 | 33.077 | 7.01 | 0.10 | 26.092 | 0.107 | 1471. | 0.6 | |
| 60 | 60.1 | 5.521 | 33.078 | 7.01 | 0.10 | 26.092 | 0.111 | 1471. | 1.1 | |
| 62 | 62.3 | 5.524 | 33.079 | 7.02 | 0.10 | 26.092 | 0.115 | 1471. | 1.7 | |
| 63 | 63.8 | 5.527 | 33.080 | 7.00 | 0.10 | 26.093 | 0.118 | 1471. | 2.3 | |
| 65 | 66.0 | 5.532 | 33.082 | 7.00 | 0.10 | 26.094 | 0.123 | 1472. | 2.8 | |
| 68 | 68.1 | 5.562 | 33.094 | 6.99 | 0.10 | 26.100 | 0.127 | 1472. | 3.1 | |
| 69 | 70.0 | 5.613 | 33.115 | 6.97 | 0.09 | 26.110 | 0.130 | 1472. | 3.3 | |
| 71 | 72.0 | 5.690 | 33.144 | 6.93 | 0.09 | 26.124 | 0.134 | 1472. | 3.4 | |
| 73 | 74.0 | 5.713 | 33.154 | 6.92 | 0.09 | 26.129 | 0.138 | 1472. | 3.3 | |
| 75 | 75.9 | 5.737 | 33.164 | 6.91 | 0.09 | 26.135 | 0.141 | 1473. | 3.0 | |
| 78 | 78.1 | 5.770 | 33.179 | 6.91 | 0.09 | 26.142 | 0.146 | 1473. | 2.6 | |
| 79 | 79.9 | 5.775 | 33.182 | 6.90 | 0.09 | 26.144 | 0.149 | 1473. | 2.2 | |
| 81 | 82.0 | 5.780 | 33.182 | 6.89 | 0.09 | 26.143 | 0.153 | 1473. | 1.9 | |
| 83 | 84.1 | 5.795 | 33.189 | 6.88 | 0.09 | 26.147 | 0.157 | 1473. | 1.7 | |
| 85 | 86.1 | 5.810 | 33.192 | 6.88 | 0.09 | 26.147 | 0.160 | 1473. | 1.4 | |
| 87 | 88.1 | 5.824 | 33.197 | 6.88 | 0.09 | 26.149 | 0.164 | 1473. | 1.2 | |
| 89 | 89.7 | 5.826 | 33.198 | 6.87 | 0.09 | 26.150 | 0.167 | 1473. | 1.1 | |
| 91 | 91.8 | 5.824 | 33.198 | 6.87 | 0.09 | 26.150 | 0.171 | 1473. | 0.8 | |
| 93 | 94.1 | 5.833 | 33.199 | 6.88 | 0.09 | 26.150 | 0.175 | 1473. | 0.7 | |
| 95 | 96.2 | 5.831 | 33.199 | 6.89 | 0.09 | 26.151 | 0.179 | 1473. | 0.6 | |
| 97 | 97.9 | 5.832 | 33.199 | 6.87 | 0.09 | 26.150 | 0.183 | 1473. | 0.7 | |
| 99 | 99.9 | 5.838 | 33.200 | 6.87 | 0.09 | 26.151 | 0.186 | 1473. | 0.9 | |

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| SHIP OC | CRUISE 181 | STATION 60 | DATE 11 FEB 1987 | | | EST 1004 | LATITUDE 42°30.7'N | LONGITUDE 69°29.1'W | DEPTH 278 | |
|---------|------------|------------|------------------|----------|---------------------|-------------------------|---|---------------------|-----------|--|
| DEPTH m | PRESS dbar | TEMP °C | SALIN psu | OXY ml/l | ATN m ⁻¹ | SIGT gm/cm ³ | DYHT A 10m ² /s ² | S SPD m/s | N cph | |
| 101 | 102.0 | 5.838 | 33.201 | 6.87 | 0.09 | 26.151 | 0.190 | 1473. | 1.0 | |
| 103 | 104.1 | 5.846 | 33.203 | 6.88 | 0.09 | 26.152 | 0.194 | 1474. | 1.0 | |
| 105 | 105.9 | 5.856 | 33.206 | 6.88 | 0.09 | 26.153 | 0.197 | 1474. | 1.0 | |
| 107 | 107.9 | 5.861 | 33.208 | 6.88 | 0.09 | 26.154 | 0.201 | 1474. | 0.9 | |
| 109 | 110.1 | 5.862 | 33.209 | 6.89 | 0.09 | 26.154 | 0.205 | 1474. | 0.9 | |
| 111 | 112.1 | 5.862 | 33.209 | 6.90 | 0.09 | 26.155 | 0.209 | 1474. | 0.8 | |
| 113 | 114.0 | 5.863 | 33.209 | 6.92 | 0.09 | 26.154 | 0.213 | 1474. | 0.7 | |
| 115 | 116.0 | 5.868 | 33.210 | 6.93 | 0.09 | 26.155 | 0.216 | 1474. | 0.6 | |
| 117 | 118.0 | 5.871 | 33.212 | 6.94 | 0.09 | 26.156 | 0.220 | 1474. | 0.5 | |
| 119 | 120.0 | 5.874 | 33.212 | 6.95 | 0.09 | 26.156 | 0.224 | 1474. | 0.5 | |
| 121 | 122.0 | 5.875 | 33.212 | 6.96 | 0.09 | 26.156 | 0.227 | 1474. | 0.6 | |
| 123 | 124.0 | 5.877 | 33.213 | 6.97 | 0.09 | 26.156 | 0.231 | 1474. | 0.5 | |
| 125 | 126.0 | 5.879 | 33.213 | 6.99 | 0.09 | 26.155 | 0.235 | 1474. | 0.5 | |
| 127 | 127.9 | 5.884 | 33.214 | 7.01 | 0.09 | 26.156 | 0.238 | 1474. | 0.7 | |
| 129 | 129.9 | 5.890 | 33.216 | 7.04 | 0.09 | 26.157 | 0.242 | 1474. | 0.8 | |
| 131 | 132.1 | 5.894 | 33.216 | 7.06 | 0.09 | 26.156 | 0.246 | 1474. | 0.8 | |
| 133 | 134.0 | 5.897 | 33.217 | 7.08 | 0.09 | 26.157 | 0.250 | 1474. | 0.9 | |
| 135 | 136.1 | 5.907 | 33.220 | 7.11 | 0.09 | 26.158 | 0.254 | 1474. | 0.8 | |
| 137 | 138.0 | 5.911 | 33.221 | 7.13 | 0.09 | 26.158 | 0.257 | 1474. | 0.8 | |
| 139 | 140.0 | 5.916 | 33.223 | 7.14 | 0.09 | 26.159 | 0.261 | 1474. | 0.8 | |
| 141 | 142.0 | 5.920 | 33.223 | 7.16 | 0.09 | 26.159 | 0.265 | 1474. | 0.8 | |
| 143 | 144.0 | 5.922 | 33.224 | 7.03 | 0.09 | 26.159 | 0.268 | 1475. | 0.7 | |
| 145 | 145.9 | 5.923 | 33.225 | 6.80 | 0.09 | 26.160 | 0.272 | 1475. | 0.7 | |
| 147 | 148.1 | 5.927 | 33.226 | 6.81 | 0.09 | 26.160 | 0.276 | 1475. | 0.7 | |
| 149 | 150.0 | 5.930 | 33.227 | 6.80 | 0.09 | 26.160 | 0.280 | 1475. | 0.7 | |
| 151 | 151.9 | 5.931 | 33.227 | 6.79 | 0.09 | 26.160 | 0.283 | 1475. | 0.9 | |
| 153 | 154.0 | 5.936 | 33.228 | 6.77 | 0.09 | 26.161 | 0.287 | 1475. | 1.2 | |
| 155 | 156.0 | 5.941 | 33.230 | 6.73 | 0.09 | 26.161 | 0.291 | 1475. | 1.6 | |
| 157 | 158.0 | 5.946 | 33.231 | 6.66 | 0.09 | 26.162 | 0.294 | 1475. | 2.5 | |
| 159 | 160.0 | 5.966 | 33.238 | 6.59 | 0.10 | 26.165 | 0.298 | 1475. | 3.9 | |
| 161 | 162.1 | 6.006 | 33.251 | 6.52 | 0.09 | 26.170 | 0.302 | 1475. | 4.8 | |
| 163 | 164.1 | 6.052 | 33.264 | 6.19 | 0.09 | 26.175 | 0.306 | 1475. | 5.6 | |
| 165 | 165.9 | 6.197 | 33.324 | 5.91 | 0.09 | 26.204 | 0.309 | 1476. | 6.5 | |
| 167 | 168.0 | 6.403 | 33.436 | 5.80 | 0.10 | 26.266 | 0.313 | 1477. | 7.0 | |
| 169 | 170.0 | 6.467 | 33.468 | 5.73 | 0.10 | 26.283 | 0.316 | 1477. | 7.1 | |
| 171 | 172.0 | 6.537 | 33.520 | 5.67 | 0.11 | 26.315 | 0.320 | 1478. | 7.0 | |
| 173 | 174.0 | 6.613 | 33.605 | 5.62 | 0.11 | 26.372 | 0.323 | 1478. | 6.6 | |
| 175 | 176.1 | 6.626 | 33.630 | 5.60 | 0.12 | 26.390 | 0.327 | 1478. | 6.1 | |
| 176 | 177.9 | 6.631 | 33.643 | 5.56 | 0.13 | 26.400 | 0.330 | 1478. | 5.7 | |
| 179 | 180.0 | 6.639 | 33.664 | 5.52 | 0.13 | 26.415 | 0.333 | 1479. | 5.2 | |
| 181 | 182.1 | 6.649 | 33.690 | 5.49 | 0.14 | 26.434 | 0.336 | 1479. | 4.7 | |
| 183 | 184.1 | 6.663 | 33.713 | 5.47 | 0.15 | 26.450 | 0.340 | 1479. | 4.5 | |
| 184 | 186.0 | 6.674 | 33.722 | 5.45 | 0.15 | 26.456 | 0.343 | 1479. | 4.2 | |
| 187 | 188.1 | 6.701 | 33.747 | 5.42 | 0.14 | 26.472 | 0.346 | 1479. | 3.7 | |
| 188 | 189.9 | 6.709 | 33.760 | 5.40 | 0.14 | 26.481 | 0.349 | 1479. | 3.3 | |
| 190 | 192.0 | 6.713 | 33.764 | 5.37 | 0.15 | 26.484 | 0.352 | 1479. | 3.0 | |
| 192 | 194.0 | 6.712 | 33.764 | 5.35 | 0.15 | 26.484 | 0.355 | 1479. | 3.0 | |
| 194 | 196.1 | 6.712 | 33.768 | 5.33 | 0.15 | 26.487 | 0.359 | 1479. | 2.9 | |
| 196 | 197.9 | 6.711 | 33.775 | 5.30 | 0.16 | 26.493 | 0.361 | 1479. | 3.0 | |
| 198 | 200.0 | 6.710 | 33.783 | 5.28 | 0.17 | 26.499 | 0.365 | 1479. | 3.2 | |

| SHIP OC | CRUISE 181 | STATION 60 | DATE 11 FEB 1987 | | EST 1004 | LATITUDE 42°30.7'N | LONGITUDE 69°29.1'W | DEPTH 278 | | |
|---------|------------|------------|------------------|----------|---------------------|-------------------------|---|-----------|-------|--|
| DEPTH m | PRESS dbar | TEMP °C | SALIN psu | OXY ml/l | ATN m ⁻¹ | SIGT gm/cm ³ | DYHT A 10m ² /s ² | S SPD m/s | N cph | |
| 200 | 202.1 | 6.716 | 33.801 | 5.26 | 0.19 | 26.513 | 0.368 | 1479. | 3.2 | |
| 202 | 204.0 | 6.721 | 33.812 | 5.25 | 0.20 | 26.521 | 0.371 | 1479. | 3.1 | |
| 204 | 206.0 | 6.722 | 33.818 | 5.25 | 0.20 | 26.525 | 0.374 | 1479. | 3.0 | |
| 206 | 208.0 | 6.723 | 33.823 | 5.24 | 0.21 | 26.529 | 0.377 | 1480. | 2.7 | |
| 208 | 209.9 | 6.724 | 33.824 | 5.23 | 0.21 | 26.530 | 0.380 | 1480. | 2.4 | |
| 210 | 211.9 | 6.724 | 33.827 | 5.22 | 0.22 | 26.532 | 0.383 | 1480. | 2.3 | |
| 212 | 214.0 | 6.725 | 33.837 | 5.22 | 0.23 | 26.540 | 0.386 | 1480. | 2.3 | |
| 214 | 216.1 | 6.725 | 33.841 | 5.22 | 0.23 | 26.543 | 0.389 | 1480. | 2.3 | |
| 216 | 217.9 | 6.723 | 33.842 | 5.21 | 0.23 | 26.544 | 0.392 | 1480. | 2.4 | |
| 218 | 220.0 | 6.716 | 33.846 | 5.21 | 0.26 | 26.548 | 0.395 | 1480. | 2.3 | |
| 220 | 222.0 | 6.715 | 33.849 | 5.21 | 0.29 | 26.551 | 0.398 | 1480. | 2.2 | |
| 222 | 224.0 | 6.716 | 33.855 | 5.21 | 0.32 | 26.555 | 0.401 | 1480. | 2.2 | |
| 224 | 225.9 | 6.719 | 33.860 | 5.21 | 0.36 | 26.559 | 0.404 | 1480. | 2.0 | |
| 226 | 228.0 | 6.723 | 33.865 | 5.21 | 0.40 | 26.562 | 0.407 | 1480. | 1.8 | |
| 228 | 230.1 | 6.724 | 33.867 | 5.21 | 0.44 | 26.564 | 0.410 | 1480. | 1.5 | |
| 230 | 231.9 | 6.724 | 33.867 | 5.21 | 0.45 | 26.564 | 0.413 | 1480. | 1.2 | |
| 232 | 234.0 | 6.725 | 33.867 | 5.21 | 0.47 | 26.564 | 0.416 | 1480. | 0.9 | |
| 234 | 236.1 | 6.725 | 33.867 | 5.21 | 0.47 | 26.564 | 0.419 | 1480. | 0.5 | |
| 236 | 238.0 | 6.725 | 33.868 | 5.21 | 0.47 | 26.564 | 0.422 | 1480. | 0.4 | |
| 238 | 240.0 | 6.725 | 33.868 | 5.21 | 0.47 | 26.564 | 0.425 | 1480. | 0.4 | |
| 240 | 241.9 | 6.726 | 33.868 | 5.21 | 0.48 | 26.564 | 0.428 | 1480. | 0.5 | |
| 242 | 243.9 | 6.726 | 33.867 | 5.21 | 0.49 | 26.564 | 0.431 | 1480. | 0.6 | |
| 244 | 246.1 | 6.726 | 33.868 | 5.21 | 0.50 | 26.564 | 0.434 | 1480. | 0.8 | |
| 246 | 248.0 | 6.727 | 33.869 | 5.21 | 0.51 | 26.565 | 0.437 | 1480. | 0.9 | |
| 248 | 250.1 | 6.729 | 33.870 | 5.22 | 0.53 | 26.565 | 0.440 | 1480. | 1.0 | |
| 250 | 252.0 | 6.731 | 33.871 | 5.21 | 0.54 | 26.566 | 0.443 | 1480. | 1.1 | |
| 252 | 254.0 | 6.736 | 33.874 | 5.21 | 0.60 | 26.567 | 0.446 | 1480. | 1.1 | |
| 254 | 256.1 | 6.737 | 33.874 | 5.21 | 0.60 | 26.568 | 0.449 | 1480. | 1.1 | |
| 256 | 258.1 | 6.738 | 33.876 | 5.21 | 0.60 | 26.569 | 0.452 | 1480. | 1.0 | |
| 258 | 259.9 | 6.741 | 33.877 | 5.20 | 0.63 | 26.569 | 0.455 | 1481. | 0.9 | |
| 260 | 262.1 | 6.741 | 33.877 | 5.20 | 0.63 | 26.570 | 0.458 | 1481. | 0.8 | |
| 261 | 263.3 | 6.742 | 33.877 | 5.19 | 0.62 | 26.570 | 0.460 | 1481. | 0.7 | |
| 262 | 264.0 | 6.742 | 33.877 | 5.19 | 0.61 | 26.570 | 0.461 | 1481. | 0.7 | |
| 263 | 265.0 | 6.742 | 33.878 | 5.18 | 0.62 | 26.570 | 0.462 | 1481. | 0.7 | |
| 264 | 265.9 | 6.743 | 33.878 | 5.17 | 0.63 | 26.570 | 0.464 | 1481. | 0.6 | |
| 265 | 267.0 | 6.743 | 33.878 | 5.16 | 0.64 | 26.570 | 0.465 | 1481. | 0.6 | |
| 266 | 268.1 | 6.743 | 33.879 | 5.16 | 0.65 | 26.571 | 0.467 | 1481. | 0.6 | |
| 267 | 269.0 | 6.743 | 33.879 | 5.16 | 0.64 | 26.570 | 0.468 | 1481. | 0.6 | |
| 268 | 270.0 | 6.744 | 33.878 | 5.17 | 0.63 | 26.570 | 0.470 | 1481. | 0.6 | |
| 269 | 271.1 | 6.745 | 33.879 | 5.17 | 0.62 | 26.570 | 0.471 | 1481. | 0.6 | |
| 270 | 272.1 | 6.745 | 33.879 | 5.17 | 0.64 | 26.571 | 0.473 | 1481. | 0.6 | |

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| SHIP OC | CRUISE 181 | STATION 61 | DATE 11 FEB 1987 | | EST 1138 | LATITUDE 42°33.0'N | LONGITUDE 69°14.9'W | DEPTH 230 | | |
|---------|------------|------------|------------------|----------|---------------------|-------------------------|---|-----------|-------|--|
| DEPTH m | PRESS dbar | TEMP °C | SALIN psu | OXY ml/l | ATN m ⁻¹ | SIGT gm/cm ³ | DYHT A 10m ² /s ² | S SPD m/s | N cph | |
| 2 | 1.8 | 5.519 | 33.057 | 7.03 | 0.12 | 26.075 | 0.000 | 1470. | -0.2 | |
| 4 | 4.0 | 5.524 | 33.056 | 7.03 | 0.12 | 26.074 | 0.004 | 1470. | -0.2 | |
| 6 | 6.1 | 5.524 | 33.056 | 7.04 | 0.12 | 26.075 | 0.008 | 1470. | -0.2 | |
| 8 | 7.8 | 5.524 | 33.056 | 7.04 | 0.11 | 26.075 | 0.012 | 1471. | -0.2 | |
| 10 | 10.1 | 5.525 | 33.056 | 7.04 | 0.11 | 26.074 | 0.016 | 1471. | -0.2 | |
| 12 | 11.9 | 5.527 | 33.057 | 7.04 | 0.11 | 26.075 | 0.019 | 1471. | 0.3 | |
| 14 | 13.9 | 5.529 | 33.057 | 7.04 | 0.11 | 26.075 | 0.023 | 1471. | 0.2 | |
| 16 | 16.1 | 5.529 | 33.058 | 7.04 | 0.11 | 26.075 | 0.027 | 1471. | 0.2 | |
| 18 | 17.9 | 5.528 | 33.057 | 7.03 | 0.11 | 26.075 | 0.031 | 1471. | 0.2 | |
| 20 | 19.9 | 5.528 | 33.057 | 7.03 | 0.11 | 26.075 | 0.035 | 1471. | -0.2 | |
| 22 | 22.1 | 5.528 | 33.057 | 7.04 | 0.11 | 26.075 | 0.039 | 1471. | 0.1 | |
| 24 | 24.1 | 5.528 | 33.057 | 7.04 | 0.12 | 26.075 | 0.043 | 1471. | -0.3 | |
| 26 | 25.9 | 5.528 | 33.057 | 7.05 | 0.11 | 26.075 | 0.046 | 1471. | -0.2 | |
| 28 | 27.9 | 5.528 | 33.057 | 7.04 | 0.11 | 26.074 | 0.050 | 1471. | -0.3 | |
| 30 | 30.1 | 5.530 | 33.058 | 7.04 | 0.11 | 26.075 | 0.054 | 1471. | 0.1 | |
| 32 | 32.1 | 5.527 | 33.056 | 7.04 | 0.11 | 26.074 | 0.058 | 1471. | -0.2 | |
| 34 | 34.0 | 5.527 | 33.056 | 7.04 | 0.11 | 26.074 | 0.062 | 1471. | -0.2 | |
| 36 | 36.0 | 5.527 | 33.056 | 7.04 | 0.12 | 26.074 | 0.066 | 1471. | -0.3 | |
| 37 | 37.2 | 5.527 | 33.057 | 7.05 | 0.12 | 26.075 | 0.068 | 1471. | -0.3 | |
| 40 | 39.9 | 5.529 | 33.057 | 7.04 | 0.12 | 26.074 | 0.073 | 1471. | 0.2 | |
| 42 | 42.0 | 5.530 | 33.057 | 7.04 | 0.11 | 26.074 | 0.077 | 1471. | 0.2 | |
| 44 | 44.1 | 5.529 | 33.056 | 7.04 | 0.11 | 26.074 | 0.081 | 1471. | 0.3 | |
| 46 | 45.9 | 5.529 | 33.056 | 7.04 | 0.12 | 26.074 | 0.085 | 1471. | 0.3 | |
| 48 | 47.9 | 5.531 | 33.058 | 7.03 | 0.12 | 26.075 | 0.089 | 1471. | 0.5 | |
| 50 | 49.9 | 5.533 | 33.058 | 7.03 | 0.11 | 26.075 | 0.093 | 1471. | 0.4 | |
| 52 | 52.0 | 5.531 | 33.058 | 7.02 | 0.11 | 26.075 | 0.097 | 1471. | 0.3 | |
| 54 | 54.0 | 5.531 | 33.057 | 7.03 | 0.11 | 26.075 | 0.101 | 1471. | -0.2 | |
| 56 | 56.0 | 5.532 | 33.058 | 7.03 | 0.11 | 26.075 | 0.105 | 1471. | -0.3 | |
| 57 | 57.9 | 5.531 | 33.057 | 7.03 | 0.11 | 26.074 | 0.108 | 1471. | -0.4 | |
| 60 | 60.0 | 5.530 | 33.057 | 7.03 | 0.11 | 26.074 | 0.112 | 1471. | -0.1 | |
| 62 | 62.0 | 5.532 | 33.057 | 7.03 | 0.12 | 26.074 | 0.116 | 1471. | 0.6 | |
| 63 | 64.0 | 5.532 | 33.057 | 7.04 | 0.11 | 26.074 | 0.120 | 1471. | 0.8 | |
| 65 | 66.0 | 5.531 | 33.056 | 7.05 | 0.11 | 26.074 | 0.124 | 1471. | 1.0 | |
| 68 | 68.1 | 5.539 | 33.060 | 7.05 | 0.11 | 26.075 | 0.128 | 1472. | 1.0 | |
| 69 | 70.0 | 5.550 | 33.063 | 7.06 | 0.11 | 26.077 | 0.132 | 1472. | 1.0 | |
| 71 | 71.9 | 5.554 | 33.065 | 7.06 | 0.11 | 26.078 | 0.135 | 1472. | 1.0 | |
| 73 | 74.0 | 5.560 | 33.067 | 7.08 | 0.11 | 26.079 | 0.139 | 1472. | 0.9 | |
| 75 | 76.1 | 5.559 | 33.066 | 7.10 | 0.11 | 26.078 | 0.143 | 1472. | 0.7 | |
| 77 | 77.9 | 5.559 | 33.066 | 7.11 | 0.11 | 26.078 | 0.147 | 1472. | 0.6 | |
| 79 | 80.0 | 5.561 | 33.067 | 7.12 | 0.12 | 26.078 | 0.151 | 1472. | 0.7 | |
| 81 | 82.0 | 5.563 | 33.067 | 7.12 | 0.12 | 26.079 | 0.155 | 1472. | 0.7 | |
| 83 | 84.0 | 5.561 | 33.067 | 7.14 | 0.12 | 26.079 | 0.159 | 1472. | 0.9 | |
| 85 | 86.1 | 5.572 | 33.070 | 7.16 | 0.11 | 26.079 | 0.163 | 1472. | 1.0 | |
| 87 | 87.8 | 5.572 | 33.071 | 7.15 | 0.11 | 26.081 | 0.166 | 1472. | 1.0 | |
| 89 | 90.0 | 5.584 | 33.074 | 7.16 | 0.11 | 26.081 | 0.170 | 1472. | 1.0 | |
| 91 | 92.1 | 5.587 | 33.075 | 7.16 | 0.11 | 26.082 | 0.174 | 1472. | 0.9 | |
| 93 | 94.0 | 5.590 | 33.076 | 7.17 | 0.11 | 26.082 | 0.178 | 1472. | 0.7 | |
| 95 | 95.9 | 5.593 | 33.077 | 7.17 | 0.11 | 26.082 | 0.182 | 1472. | 0.6 | |
| 97 | 98.0 | 5.601 | 33.079 | 7.16 | 0.11 | 26.083 | 0.186 | 1472. | 0.6 | |
| 99 | 100.1 | 5.598 | 33.077 | 7.15 | 0.11 | 26.082 | 0.190 | 1472. | 1.2 | |

SHIP CRUISE STATION DATE EST LATITUDE LONGITUDE DEPTH
 OC 181 61 11 FEB 1987 1138 42°33.0'N 69°14.9'W 230

| DEPTH | PRESS | TEMP | SALIN | OXY | ATN | SIGT | DYHT A | S SPD | N |
|-------|-------|-------|--------|------|-----------------|--------------------|----------------------------------|-------|-----|
| m | dbar | °C | psu | ml/l | m ⁻¹ | gm/cm ³ | 10m ² /s ² | m/s | cph |
| 101 | 102.1 | 5.613 | 33.079 | 7.14 | 0.11 | 26.082 | 0.194 | 1472. | 1.8 |
| 103 | 104.1 | 5.622 | 33.082 | 6.94 | 0.11 | 26.083 | 0.197 | 1473. | 2.3 |
| 105 | 106.0 | 5.634 | 33.085 | 6.71 | 0.11 | 26.084 | 0.201 | 1473. | 2.9 |
| 107 | 108.0 | 5.722 | 33.111 | 6.66 | 0.11 | 26.094 | 0.205 | 1473. | 3.4 |
| 109 | 110.0 | 5.864 | 33.147 | 6.60 | 0.11 | 26.105 | 0.209 | 1474. | 3.7 |
| 111 | 112.1 | 5.936 | 33.167 | 6.56 | 0.11 | 26.112 | 0.213 | 1474. | 3.8 |
| 113 | 113.9 | 6.079 | 33.210 | 6.49 | 0.12 | 26.129 | 0.216 | 1475. | 4.0 |
| 115 | 115.9 | 6.095 | 33.222 | 6.46 | 0.12 | 26.136 | 0.220 | 1475. | 4.0 |
| 117 | 118.0 | 6.168 | 33.243 | 6.42 | 0.13 | 26.144 | 0.224 | 1475. | 4.1 |
| 119 | 120.0 | 6.204 | 33.263 | 6.40 | 0.13 | 26.154 | 0.227 | 1475. | 4.1 |
| 121 | 121.9 | 6.253 | 33.286 | 6.37 | 0.14 | 26.167 | 0.231 | 1476. | 4.1 |
| 123 | 123.9 | 6.292 | 33.304 | 6.34 | 0.14 | 26.176 | 0.235 | 1476. | 4.1 |
| 125 | 126.0 | 6.365 | 33.338 | 6.31 | 0.15 | 26.194 | 0.239 | 1476. | 4.1 |
| 127 | 128.1 | 6.396 | 33.351 | 6.30 | 0.15 | 26.200 | 0.242 | 1476. | 4.0 |
| 129 | 130.0 | 6.446 | 33.375 | 6.26 | 0.16 | 26.212 | 0.246 | 1477. | 3.7 |
| 131 | 132.0 | 6.473 | 33.392 | 6.24 | 0.16 | 26.222 | 0.250 | 1477. | 3.5 |
| 133 | 134.1 | 6.502 | 33.404 | 6.22 | 0.17 | 26.228 | 0.253 | 1477. | 3.4 |
| 135 | 136.2 | 6.525 | 33.414 | 6.21 | 0.16 | 26.233 | 0.257 | 1477. | 3.4 |
| 137 | 137.9 | 6.530 | 33.417 | 6.19 | 0.16 | 26.235 | 0.260 | 1477. | 3.2 |
| 139 | 139.9 | 6.541 | 33.432 | 6.17 | 0.17 | 26.245 | 0.264 | 1477. | 3.0 |
| 141 | 142.0 | 6.613 | 33.461 | 6.13 | 0.17 | 26.258 | 0.268 | 1478. | 2.9 |
| 143 | 144.0 | 6.636 | 33.470 | 6.12 | 0.18 | 26.263 | 0.271 | 1478. | 2.7 |
| 145 | 145.8 | 6.640 | 33.471 | 6.11 | 0.18 | 26.263 | 0.274 | 1478. | 2.6 |
| 147 | 148.0 | 6.634 | 33.470 | 6.10 | 0.17 | 26.263 | 0.278 | 1478. | 2.3 |
| 149 | 150.0 | 6.646 | 33.475 | 6.09 | 0.17 | 26.265 | 0.282 | 1478. | 2.0 |
| 151 | 152.1 | 6.666 | 33.483 | 6.08 | 0.17 | 26.269 | 0.285 | 1478. | 2.1 |
| 153 | 154.1 | 6.664 | 33.494 | 6.08 | 0.17 | 26.277 | 0.289 | 1478. | 2.1 |
| 155 | 156.0 | 6.662 | 33.495 | 6.05 | 0.16 | 26.279 | 0.292 | 1478. | 2.3 |
| 157 | 157.9 | 6.672 | 33.495 | 5.77 | 0.17 | 26.277 | 0.296 | 1478. | 2.5 |
| 159 | 160.0 | 6.695 | 33.507 | 5.63 | 0.17 | 26.284 | 0.299 | 1478. | 3.0 |
| 161 | 162.0 | 6.777 | 33.518 | 5.60 | 0.17 | 26.282 | 0.303 | 1479. | 3.5 |
| 163 | 164.0 | 6.896 | 33.555 | 5.54 | 0.17 | 26.295 | 0.306 | 1479. | 4.0 |
| 165 | 165.9 | 7.074 | 33.597 | 5.46 | 0.18 | 26.304 | 0.309 | 1480. | 4.4 |
| 167 | 168.0 | 7.125 | 33.637 | 5.43 | 0.18 | 26.328 | 0.313 | 1480. | 4.5 |
| 168 | 169.7 | 7.072 | 33.648 | 5.44 | 0.19 | 26.344 | 0.316 | 1480. | 4.5 |
| 171 | 172.2 | 7.041 | 33.663 | 5.43 | 0.19 | 26.360 | 0.320 | 1480. | 4.2 |
| 173 | 174.0 | 6.989 | 33.661 | 5.43 | 0.19 | 26.366 | 0.323 | 1480. | 3.9 |
| 175 | 176.1 | 6.951 | 33.660 | 5.43 | 0.19 | 26.370 | 0.327 | 1480. | 3.6 |
| 177 | 178.1 | 6.938 | 33.666 | 5.42 | 0.20 | 26.377 | 0.330 | 1480. | 3.5 |
| 178 | 180.0 | 6.913 | 33.670 | 5.40 | 0.20 | 26.383 | 0.333 | 1480. | 3.6 |
| 180 | 182.0 | 6.873 | 33.670 | 5.39 | 0.21 | 26.389 | 0.336 | 1479. | 3.8 |
| 182 | 184.0 | 6.810 | 33.674 | 5.40 | 0.22 | 26.400 | 0.340 | 1479. | 3.9 |
| 185 | 186.1 | 6.766 | 33.682 | 5.39 | 0.23 | 26.412 | 0.343 | 1479. | 3.9 |
| 186 | 187.9 | 6.717 | 33.696 | 5.39 | 0.25 | 26.430 | 0.346 | 1479. | 3.8 |
| 188 | 190.0 | 6.707 | 33.698 | 5.38 | 0.26 | 26.433 | 0.350 | 1479. | 3.5 |
| 190 | 192.0 | 6.688 | 33.705 | 5.37 | 0.27 | 26.441 | 0.353 | 1479. | 3.2 |
| 192 | 194.0 | 6.686 | 33.711 | 5.36 | 0.29 | 26.446 | 0.356 | 1479. | 3.0 |
| 194 | 196.1 | 6.685 | 33.713 | 5.35 | 0.29 | 26.448 | 0.359 | 1479. | 2.6 |
| 196 | 197.9 | 6.681 | 33.717 | 5.33 | 0.31 | 26.451 | 0.362 | 1479. | 2.5 |
| 198 | 200.0 | 6.674 | 33.723 | 5.33 | 0.33 | 26.457 | 0.366 | 1479. | 2.3 |

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SHIP CRUISE STATION DATE EST LATITUDE LONGITUDE DEPTH
 OC 181 61 11 FEB 1987 1138 42°33.0'N 69°14.9'W 230

| DEPTH | PRESS | TEMP | SALIN | OXY | ATN | SIGT | DYHT A | S SPD | N |
|-------|-------|-------|--------|------|-----------------|--------------------|----------------------------------|-------|-----|
| m | dbar | °C | psu | ml/l | m ⁻¹ | gm/cm ³ | 10m ² /s ² | m/s | cph |
| 200 | 202.0 | 6.669 | 33.730 | 5.33 | 0.34 | 26.463 | 0.369 | 1479. | 2.1 |
| 202 | 204.1 | 6.669 | 33.730 | 5.33 | 0.34 | 26.463 | 0.372 | 1479. | 2.0 |
| 204 | 206.1 | 6.668 | 33.731 | 5.32 | 0.34 | 26.464 | 0.375 | 1479. | 1.8 |
| 206 | 207.9 | 6.668 | 33.732 | 5.31 | 0.35 | 26.465 | 0.378 | 1479. | 1.6 |
| 208 | 210.0 | 6.668 | 33.736 | 5.31 | 0.36 | 26.468 | 0.381 | 1479. | 1.5 |
| 210 | 212.1 | 6.665 | 33.738 | 5.30 | 0.36 | 26.470 | 0.385 | 1479. | 1.5 |
| 212 | 213.9 | 6.664 | 33.739 | 5.29 | 0.36 | 26.470 | 0.388 | 1479. | 1.4 |
| 213 | 215.3 | 6.664 | 33.739 | 5.28 | 0.37 | 26.470 | 0.390 | 1479. | 1.4 |
| 214 | 216.0 | 6.664 | 33.739 | 5.28 | 0.37 | 26.471 | 0.391 | 1479. | 1.1 |
| 215 | 217.1 | 6.665 | 33.739 | 5.27 | 0.37 | 26.471 | 0.393 | 1479. | 0.8 |
| 216 | 218.0 | 6.664 | 33.740 | 5.27 | 0.38 | 26.472 | 0.394 | 1479. | 0.8 |
| 217 | 219.0 | 6.663 | 33.741 | 5.26 | 0.39 | 26.473 | 0.396 | 1479. | 0.8 |
| 218 | 220.1 | 6.663 | 33.739 | 5.26 | 0.40 | 26.471 | 0.397 | 1479. | 0.8 |
| 220 | 222.1 | 6.662 | 33.740 | 5.26 | 0.42 | 26.472 | 0.400 | 1479. | 0.8 |
| 221 | 223.0 | 6.662 | 33.740 | 5.26 | 0.41 | 26.472 | 0.402 | 1479. | 0.8 |
| 222 | 224.0 | 6.662 | 33.741 | 5.26 | 0.40 | 26.472 | 0.404 | 1479. | 0.8 |

| SHIP OC | CRUISE 181 | STATION 62 | DATE 11 FEB 1987 | EST 1324 | LATITUDE 42°34.5'N | LONGITUDE 69°00.1'W | DEPTH 195 | | | | | | | | | | | | | | |
|------------|---------------|---------------|---------------------|-------------|------------------------|----------------------------|--|--------------|----------|--|--|--|--|--|--|--|--|--|--|--|--|
| DEPTH m | PRESS dbar | TEMP °C | SALIN psu | OXY ml/l | ATN m ⁻¹ | SIGT gm/cm ³ | DYHT A 10m ² /s ² | S SPD m/s | N cph | | | | | | | | | | | | |
| 2 | 2.4 | 4.609 | 32.693 | 7.43 | 0.12 | 25.889 | 0.000 | 1466. | 0.5 | | | | | | | | | | | | |
| 4 | 4.1 | 4.608 | 32.693 | 7.45 | 0.11 | 25.889 | 0.004 | 1466. | 0.5 | | | | | | | | | | | | |
| 6 | 5.9 | 4.608 | 32.692 | 7.44 | 0.11 | 25.889 | 0.007 | 1466. | 0.5 | | | | | | | | | | | | |
| 8 | 8.0 | 4.609 | 32.692 | 7.45 | 0.11 | 25.889 | 0.012 | 1466. | 0.5 | | | | | | | | | | | | |
| 10 | 9.8 | 4.611 | 32.693 | 7.45 | 0.11 | 25.889 | 0.016 | 1466. | 0.5 | | | | | | | | | | | | |
| 12 | 12.2 | 4.615 | 32.694 | 7.44 | 0.11 | 25.889 | 0.021 | 1466. | 0.6 | | | | | | | | | | | | |
| 14 | 14.0 | 4.621 | 32.695 | 7.44 | 0.11 | 25.890 | 0.024 | 1466. | 0.6 | | | | | | | | | | | | |
| 16 | 16.1 | 4.612 | 32.694 | 7.45 | 0.11 | 25.890 | 0.029 | 1466. | 0.5 | | | | | | | | | | | | |
| 18 | 17.9 | 4.628 | 32.697 | 7.43 | 0.12 | 25.891 | 0.033 | 1467. | 0.5 | | | | | | | | | | | | |
| 20 | 20.1 | 4.628 | 32.697 | 7.45 | 0.11 | 25.890 | 0.037 | 1467. | 0.5 | | | | | | | | | | | | |
| 21 | 21.6 | 4.625 | 32.696 | 7.46 | 0.12 | 25.890 | 0.040 | 1467. | 0.4 | | | | | | | | | | | | |
| 24 | 24.1 | 4.627 | 32.696 | 7.46 | 0.11 | 25.890 | 0.046 | 1467. | 0.4 | | | | | | | | | | | | |
| 26 | 26.0 | 4.628 | 32.698 | 7.46 | 0.11 | 25.891 | 0.049 | 1467. | 0.3 | | | | | | | | | | | | |
| 28 | 27.9 | 4.630 | 32.698 | 7.44 | 0.11 | 25.891 | 0.053 | 1467. | 0.4 | | | | | | | | | | | | |
| 30 | 30.2 | 4.623 | 32.697 | 7.46 | 0.11 | 25.890 | 0.058 | 1467. | 0.3 | | | | | | | | | | | | |
| 32 | 31.8 | 4.630 | 32.697 | 7.45 | 0.11 | 25.890 | 0.062 | 1467. | 0.6 | | | | | | | | | | | | |
| 34 | 34.0 | 4.630 | 32.698 | 7.45 | 0.11 | 25.891 | 0.066 | 1467. | 0.3 | | | | | | | | | | | | |
| 36 | 36.1 | 4.633 | 32.698 | 7.44 | 0.11 | 25.891 | 0.071 | 1467. | 1.2 | | | | | | | | | | | | |
| 38 | 37.9 | 4.642 | 32.699 | 7.43 | 0.11 | 25.890 | 0.075 | 1467. | 2.1 | | | | | | | | | | | | |
| 40 | 40.2 | 4.663 | 32.707 | 7.42 | 0.11 | 25.894 | 0.079 | 1467. | 3.0 | | | | | | | | | | | | |
| 42 | 41.9 | 4.689 | 32.704 | 7.38 | 0.12 | 25.889 | 0.083 | 1467. | 4.2 | | | | | | | | | | | | |
| 44 | 44.0 | 4.728 | 32.726 | 7.36 | 0.11 | 25.903 | 0.087 | 1467. | 5.3 | | | | | | | | | | | | |
| 46 | 45.9 | 4.843 | 32.767 | 7.30 | 0.11 | 25.923 | 0.091 | 1468. | 5.9 | | | | | | | | | | | | |
| 48 | 48.0 | 5.078 | 32.833 | 7.18 | 0.11 | 25.949 | 0.096 | 1469. | 6.3 | | | | | | | | | | | | |
| 50 | 50.1 | 5.374 | 32.937 | 7.07 | 0.10 | 25.998 | 0.100 | 1470. | 6.3 | | | | | | | | | | | | |
| 51 | 51.7 | 5.536 | 33.011 | 6.99 | 0.10 | 26.037 | 0.103 | 1471. | 5.9 | | | | | | | | | | | | |
| 54 | 54.1 | 5.628 | 33.037 | 6.95 | 0.10 | 26.047 | 0.108 | 1472. | 5.3 | | | | | | | | | | | | |
| 55 | 55.9 | 5.707 | 33.067 | 6.93 | 0.10 | 26.061 | 0.111 | 1472. | 4.4 | | | | | | | | | | | | |
| 58 | 58.0 | 5.791 | 33.083 | 6.89 | 0.10 | 26.064 | 0.115 | 1472. | 3.3 | | | | | | | | | | | | |
| 60 | 60.1 | 5.820 | 33.091 | 6.88 | 0.11 | 26.067 | 0.120 | 1473. | 2.3 | | | | | | | | | | | | |
| 62 | 62.0 | 5.825 | 33.092 | 6.87 | 0.11 | 26.067 | 0.123 | 1473. | 1.7 | | | | | | | | | | | | |
| 64 | 64.2 | 5.833 | 33.093 | 6.88 | 0.11 | 26.067 | 0.128 | 1473. | 1.1 | | | | | | | | | | | | |
| 65 | 65.9 | 5.846 | 33.097 | 6.87 | 0.11 | 26.068 | 0.131 | 1473. | 1.0 | | | | | | | | | | | | |
| 68 | 68.1 | 5.856 | 33.098 | 6.87 | 0.11 | 26.068 | 0.135 | 1473. | 0.9 | | | | | | | | | | | | |
| 69 | 69.8 | 5.859 | 33.099 | 6.86 | 0.11 | 26.068 | 0.138 | 1473. | 1.0 | | | | | | | | | | | | |
| 72 | 72.2 | 5.863 | 33.100 | 6.87 | 0.12 | 26.069 | 0.143 | 1473. | 1.2 | | | | | | | | | | | | |
| 73 | 74.0 | 5.872 | 33.103 | 6.87 | 0.12 | 26.070 | 0.147 | 1473. | 1.3 | | | | | | | | | | | | |
| 76 | 76.1 | 5.895 | 33.109 | 6.86 | 0.12 | 26.072 | 0.151 | 1473. | 1.4 | | | | | | | | | | | | |
| 77 | 77.9 | 5.899 | 33.111 | 6.85 | 0.13 | 26.072 | 0.154 | 1473. | 1.6 | | | | | | | | | | | | |
| 80 | 80.4 | 5.918 | 33.117 | 6.87 | 0.13 | 26.075 | 0.159 | 1473. | 1.6 | | | | | | | | | | | | |
| 81 | 82.0 | 5.939 | 33.121 | 6.89 | 0.14 | 26.076 | 0.162 | 1473. | 1.6 | | | | | | | | | | | | |
| 83 | 84.0 | 5.945 | 33.125 | 6.91 | 0.14 | 26.078 | 0.166 | 1474. | 1.6 | | | | | | | | | | | | |
| 85 | 86.0 | 5.956 | 33.130 | 6.92 | 0.15 | 26.081 | 0.170 | 1474. | 1.5 | | | | | | | | | | | | |
| 88 | 88.3 | 5.957 | 33.132 | 6.94 | 0.15 | 26.082 | 0.174 | 1474. | 1.5 | | | | | | | | | | | | |
| 89 | 89.9 | 5.959 | 33.132 | 6.93 | 0.15 | 26.082 | 0.177 | 1474. | 1.7 | | | | | | | | | | | | |
| 91 | 92.1 | 5.964 | 33.134 | 6.94 | 0.15 | 26.083 | 0.182 | 1474. | 1.9 | | | | | | | | | | | | |
| 93 | 93.7 | 5.971 | 33.138 | 6.93 | 0.15 | 26.085 | 0.185 | 1474. | 2.1 | | | | | | | | | | | | |
| 95 | 96.0 | 5.976 | 33.139 | 6.92 | 0.16 | 26.085 | 0.189 | 1474. | 2.7 | | | | | | | | | | | | |
| 97 | 98.2 | 6.006 | 33.156 | 6.86 | 0.18 | 26.095 | 0.193 | 1474. | 3.1 | | | | | | | | | | | | |
| 99 | 99.9 | 6.095 | 33.174 | 6.48 | 0.19 | 26.098 | 0.197 | 1474. | 3.4 | | | | | | | | | | | | |

| SHIP OC | CRUISE 181 | STATION 62 | DATE 11 FEB 1987 | EST 1324 | LATITUDE 42°34.5'N | LONGITUDE 69°00.1'W | DEPTH 195 | | | | | | | | | | | | | | |
|------------|---------------|---------------|---------------------|-------------|------------------------|----------------------------|--|--------------|----------|--|--|--|--|--|--|--|--|--|--|--|--|
| DEPTH m | PRESS dbar | TEMP °C | SALIN psu | OXY ml/l | ATN m ⁻¹ | SIGT gm/cm ³ | DYHT A 10m ² /s ² | S SPD m/s | N cph | | | | | | | | | | | | |
| 101 | 102.1 | 6.117 | 33.187 | 6.47 | 0.18 | 26.106 | 0.201 | 1475. | 3.5 | | | | | | | | | | | | |
| 103 | 104.1 | 6.216 | 33.227 | 6.43 | 0.19 | 26.125 | 0.204 | 1475. | 3.5 | | | | | | | | | | | | |
| 105 | 105.9 | 6.311 | 33.249 | 6.38 | 0.19 | 26.130 | 0.208 | 1475. | 3.3 | | | | | | | | | | | | |
| 107 | 107.9 | 6.344 | 33.260 | 6.35 | 0.18 | 26.135 | 0.212 | 1476. | 3.1 | | | | | | | | | | | | |
| 109 | 110.0 | 6.371 | 33.273 | 6.35 | 0.17 | 26.141 | 0.216 | 1476. | 2.8 | | | | | | | | | | | | |
| 111 | 111.9 | 6.368 | 33.276 | 6.35 | 0.16 | 26.145 | 0.219 | 1476. | 2.4 | | | | | | | | | | | | |
| 113 | 114.0 | 6.366 | 33.277 | 6.32 | 0.15 | 26.145 | 0.223 | 1476. | 2.3 | | | | | | | | | | | | |
| 115 | 116.1 | 6.388 | 33.286 | 6.31 | 0.15 | 26.149 | 0.227 | 1476. | 2.3 | | | | | | | | | | | | |
| 117 | 118.2 | 6.407 | 33.295 | 6.28 | 0.15 | 26.154 | 0.231 | 1476. | 2.2 | | | | | | | | | | | | |
| 119 | 120.0 | 6.424 | 33.299 | 6.25 | 0.16 | 26.155 | 0.234 | 1476. | 2.3 | | | | | | | | | | | | |
| 121 | 122.2 | 6.455 | 33.311 | 6.22 | 0.16 | 26.161 | 0.238 | 1476. | 3.1 | | | | | | | | | | | | |
| 123 | 123.8 | 6.469 | 33.317 | 6.16 | 0.16 | 26.164 | 0.241 | 1476. | 3.8 | | | | | | | | | | | | |
| 125 | 126.0 | 6.470 | 33.319 | 6.12 | 0.16 | 26.165 | 0.246 | 1477. | 4.4 | | | | | | | | | | | | |
| 127 | 128.1 | 6.493 | 33.332 | 6.10 | 0.16 | 26.172 | 0.249 | 1477. | 4.9 | | | | | | | | | | | | |
| 129 | 130.1 | 6.614 | 33.404 | 6.04 | 0.19 | 26.213 | 0.253 | 1477. | 5.2 | | | | | | | | | | | | |
| 131 | 131.9 | 6.676 | 33.437 | 6.01 | 0.20 | 26.231 | 0.256 | 1478. | 5.2 | | | | | | | | | | | | |
| 133 | 134.0 | 6.783 | 33.487 | 5.97 | 0.22 | 26.256 | 0.260 | 1478. | 5.3 | | | | | | | | | | | | |
| 135 | 135.9 | 6.828 | 33.508 | 5.95 | 0.22 | 26.267 | 0.263 | 1478. | 5.1 | | | | | | | | | | | | |
| 137 | 138.1 | 6.881 | 33.531 | 5.92 | 0.23 | 26.278 | 0.267 | 1479. | 4.6 | | | | | | | | | | | | |
| 139 | 140.3 | 6.878 | 33.543 | 5.93 | 0.27 | 26.288 | 0.271 | 1479. | 4.2 | | | | | | | | | | | | |
| 141 | 141.7 | 6.784 | 33.548 | 5.95 | 0.28 | 26.304 | 0.274 | 1478. | 3.8 | | | | | | | | | | | | |
| 143 | 144.1 | 6.762 | 33.559 | 5.95 | 0.28 | 26.316 | 0.278 | 1478. | 3.5 | | | | | | | | | | | | |
| 145 | 146.1 | 6.769 | 33.566 | 5.96 | 0.31 | 26.320 | 0.281 | 1478. | 3.1 | | | | | | | | | | | | |
| 147 | 147.9 | 6.800 | 33.570 | 5.93 | 0.32 | 26.320 | 0.284 | 1479. | 2.9 | | | | | | | | | | | | |
| 149 | 150.3 | 6.845 | 33.584 | 5.91 | 0.29 | 26.324 | 0.288 | 1479. | 2.6 | | | | | | | | | | | | |
| 151 | 151.8 | 6.932 | 33.600 | 5.62 | 0.29 | 26.326 | 0.291 | 1479. | 2.7 | | | | | | | | | | | | |
| 153 | 154.2 | 7.105 | 33.639 | 5.45 | 0.30 | 26.333 | 0.295 | 1480. | 2.8 | | | | | | | | | | | | |
| 154 | 155.7 | 7.181 | 33.666 | 5.41 | 0.31 | 26.343 | 0.298 | 1480. | 2.9 | | | | | | | | | | | | |
| 157 | 158.1 | 7.204 | 33.673 | 5.39 | 0.31 | 26.346 | 0.301 | 1480. | 2.9 | | | | | | | | | | | | |
| 159 | 160.0 | 7.253 | 33.693 | 5.37 | 0.32 | 26.355 | 0.305 | 1481. | 2.8 | | | | | | | | | | | | |
| 161 | 161.9 | 7.262 | 33.701 | 5.34 | 0.34 | 26.359 | 0.308 | 1481. | 2.8 | | | | | | | | | | | | |
| 163 | 164.1 | 7.259 | 33.702 | 5.33 | 0.35 | 26.361 | 0.312 | 1481. | 2.8 | | | | | | | | | | | | |
| 165 | 165.9 | 7.264 | 33.706 | 5.32 | 0.37 | 26.363 | 0.315 | 1481. | 2.8 | | | | | | | | | | | | |
| 166 | 167.8 | 7.287 | 33.717 | 5.29 | 0.39 | 26.369 | 0.318 | 1481. | 2.6 | | | | | | | | | | | | |
| 169 | 170.1 | 7.333 | 33.741 | 5.26 | 0.40 | 26.381 | 0.322 | 1481. | 2.5 | | | | | | | | | | | | |
| 170 | 171.7 | 7.340 | 33.747 | 5.25 | 0.41 | 26.385 | 0.324 | 1481. | 2.6 | | | | | | | | | | | | |
| 173 | 174.1 | 7.392 | 33.754 | 5.20 | 0.41 | 26.383 | 0.328 | 1481. | 2.4 | | | | | | | | | | | | |
| 175 | 176.1 | 7.413 | 33.761 | 5.19 | 0.39 | 26.386 | 0.332 | 1482. | 2.3 | | | | | | | | | | | | |
| 176 | 177.7 | 7.423 | 33.767 | 5.17 | 0.40 | 26.389 | 0.334 | 1482. | 2.2 | | | | | | | | | | | | |
| 179 | 180.1 | 7.465 | 33.784 | 5.14 | 0.39 | 26.396 | 0.338 | 1482. | 2.4 | | | | | | | | | | | | |
| 180 | 181.3 | 7.487 | 33.785 | 5.14 | 0.36 | 26.394 | 0.340 | 1482. | 2.8 | | | | | | | | | | | | |
| 181 | 182.1 | 7.502 | 33.793 | 5.13 | 0.33 | 26.398 | 0.342 | 1482. | 3.1 | | | | | | | | | | | | |
| 181 | 182.8 | 7.511 | 33.802 | 5.11 | 0.36 | 26.404 | 0.343 | 1482. | 3.3 | | | | | | | | | | | | |
| 182 | 183.9 | 7.517 | 33.808 | 5.10 | 0.38 | 26.408 | 0.344 | 1482. | 3.5 | | | | | | | | | | | | |
| 183 | 184.9 | 7.521 | 33.813 | 5.10 | 0.39 | 26.411 | 0.346 | 1482. | 3.5 | | | | | | | | | | | | |
| 184 | 186.0 | 7.530 | 33.821 | 5.09 | 0.40 | 26.417 | 0.348 | 1482. | 3.3 | | | | | | | | | | | | |
| 185 | 187.0 | 7.538 | 33.828 | 5.09 | 0.41 | 26.420 | 0.350 | 1482. | 3.1 | | | | | | | | | | | | |
| 186 | 188.0 | 7.541 | 33.830 | 5.09 | 0.41 | 26.422 | 0.351 | 1482. | 2.9 | | | | | | | | | | | | |
| 187 | 189.0 | 7.541 | 33.834 | 5.08 | 0.41 | 26.425 | 0.353 | 1482. | 2.9 | | | | | | | | | | | | |
| 188 | 190.0 | 7.539 | 33.836 | 5.08 | 0.41 | 26.427 | 0.354 | 1482. | 2.9 | | | | | | | | | | | | |

| SHIP OC | CRUISE 181 | STATION 62 | DATE 11 FEB 1987 | EST 1324 | LATITUDE 42°34.5'N | LONGITUDE 69°00.1'W | DEPTH 195 | | |
|------------|---------------|---------------|---------------------|-------------|------------------------|----------------------------|--|--------------|----------|
| DEPTH m | PRESS dbar | TEMP °C | SALIN psu | OXY ml/l | ATN m ⁻¹ | SIGT gm/cm ³ | DYHT A 10m ² /s ² | S SPD m/s | N cph |
| 189 | 191.0 | 7.539 | 33.837 | 5.09 | 0.40 | 26.428 | 0.356 | 1482. | 2.9 |
| 190 | 191.6 | 7.541 | 33.837 | 5.09 | 0.40 | 26.428 | 0.357 | 1482. | 2.9 |

| SHIP OC | CRUISE 181 | STATION 63 | DATE 11 FEB 1987 | EST 1511 | LATITUDE 42°35.6'N | LONGITUDE 68°45.0'W | DEPTH 194 | | |
|------------|---------------|---------------|---------------------|-------------|------------------------|----------------------------|--|--------------|----------|
| DEPTH m | PRESS dbar | TEMP °C | SALIN psu | OXY ml/l | ATN m ⁻¹ | SIGT gm/cm ³ | DYHT A 10m ² /s ² | S SPD m/s | N cph |
| 3 | 2.7 | 4.682 | 32.628 | 7.40 | 0.08 | 25.829 | 0.000 | 1466. | 0.2 |
| 4 | 4.0 | 4.681 | 32.628 | 7.41 | 0.08 | 25.830 | 0.003 | 1466. | 0.2 |
| 6 | 5.9 | 4.679 | 32.628 | 7.41 | 0.08 | 25.830 | 0.007 | 1466. | 0.2 |
| 8 | 8.0 | 4.677 | 32.628 | 7.41 | 0.08 | 25.830 | 0.012 | 1467. | 0.2 |
| 10 | 10.1 | 4.682 | 32.628 | 7.42 | 0.08 | 25.830 | 0.016 | 1467. | 0.2 |
| 12 | 11.7 | 4.689 | 32.628 | 7.41 | 0.08 | 25.829 | 0.019 | 1467. | -0.3 |
| 14 | 14.1 | 4.696 | 32.630 | 7.40 | 0.08 | 25.830 | 0.025 | 1467. | 0.5 |
| 16 | 16.2 | 4.697 | 32.630 | 7.41 | 0.08 | 25.830 | 0.029 | 1467. | 0.7 |
| 18 | 18.0 | 4.699 | 32.631 | 7.41 | 0.08 | 25.830 | 0.033 | 1467. | 0.9 |
| 20 | 20.1 | 4.704 | 32.630 | 7.40 | 0.08 | 25.829 | 0.038 | 1467. | 0.9 |
| 22 | 22.0 | 4.714 | 32.636 | 7.40 | 0.08 | 25.833 | 0.042 | 1467. | 1.0 |
| 24 | 24.0 | 4.718 | 32.636 | 7.40 | 0.08 | 25.833 | 0.046 | 1467. | 1.1 |
| 26 | 26.0 | 4.719 | 32.638 | 7.40 | 0.08 | 25.833 | 0.050 | 1467. | 1.1 |
| 28 | 28.0 | 4.721 | 32.637 | 7.40 | 0.08 | 25.833 | 0.055 | 1467. | 1.0 |
| 30 | 30.0 | 4.728 | 32.641 | 7.39 | 0.08 | 25.835 | 0.059 | 1467. | 0.8 |
| 32 | 32.0 | 4.730 | 32.642 | 7.38 | 0.08 | 25.836 | 0.063 | 1467. | 0.7 |
| 34 | 34.3 | 4.728 | 32.641 | 7.40 | 0.08 | 25.835 | 0.068 | 1467. | 0.6 |
| 35 | 35.8 | 4.728 | 32.641 | 7.38 | 0.08 | 25.835 | 0.071 | 1467. | 0.6 |
| 38 | 37.9 | 4.728 | 32.641 | 7.38 | 0.08 | 25.835 | 0.076 | 1467. | 0.5 |
| 40 | 40.1 | 4.729 | 32.640 | 7.40 | 0.08 | 25.834 | 0.081 | 1467. | 0.6 |
| 41 | 41.7 | 4.731 | 32.642 | 7.40 | 0.08 | 25.835 | 0.084 | 1467. | 0.7 |
| 44 | 44.0 | 4.736 | 32.643 | 7.38 | 0.08 | 25.836 | 0.089 | 1467. | 0.8 |
| 46 | 46.1 | 4.738 | 32.644 | 7.39 | 0.08 | 25.837 | 0.094 | 1467. | 1.1 |
| 47 | 47.7 | 4.740 | 32.645 | 7.39 | 0.08 | 25.837 | 0.097 | 1467. | 1.6 |
| 50 | 50.0 | 4.741 | 32.645 | 7.39 | 0.08 | 25.837 | 0.102 | 1467. | 2.3 |
| 52 | 52.2 | 4.749 | 32.647 | 7.41 | 0.08 | 25.838 | 0.107 | 1468. | 3.2 |
| 53 | 53.9 | 4.774 | 32.656 | 7.41 | 0.08 | 25.842 | 0.110 | 1468. | 4.0 |
| 56 | 56.0 | 4.815 | 32.675 | 7.40 | 0.08 | 25.853 | 0.115 | 1468. | 4.6 |
| 58 | 58.0 | 4.896 | 32.711 | 7.38 | 0.07 | 25.872 | 0.119 | 1468. | 5.0 |
| 60 | 60.3 | 5.048 | 32.764 | 7.33 | 0.07 | 25.898 | 0.124 | 1469. | 5.1 |
| 61 | 61.8 | 5.119 | 32.804 | 7.28 | 0.07 | 25.921 | 0.127 | 1469. | 5.0 |
| 64 | 64.1 | 5.203 | 32.838 | 7.23 | 0.07 | 25.938 | 0.132 | 1470. | 4.7 |
| 66 | 66.1 | 5.245 | 32.856 | 7.23 | 0.07 | 25.948 | 0.136 | 1470. | 4.6 |
| 68 | 68.2 | 5.258 | 32.864 | 7.27 | 0.06 | 25.953 | 0.140 | 1470. | 4.7 |
| 69 | 69.8 | 5.261 | 32.866 | 7.24 | 0.07 | 25.955 | 0.144 | 1470. | 4.9 |
| 71 | 71.9 | 5.299 | 32.890 | 7.22 | 0.07 | 25.969 | 0.148 | 1470. | 5.3 |
| 73 | 74.0 | 5.445 | 32.946 | 7.17 | 0.08 | 25.996 | 0.152 | 1471. | 5.6 |
| 75 | 76.1 | 5.617 | 33.014 | 6.98 | 0.08 | 26.030 | 0.156 | 1472. | 5.8 |
| 77 | 77.9 | 5.729 | 33.062 | 6.59 | 0.10 | 26.055 | 0.160 | 1472. | 5.9 |
| 79 | 80.0 | 5.858 | 33.106 | 6.54 | 0.11 | 26.074 | 0.164 | 1473. | 5.7 |
| 82 | 82.2 | 6.036 | 33.157 | 6.47 | 0.13 | 26.092 | 0.168 | 1474. | 5.5 |
| 83 | 83.8 | 6.118 | 33.186 | 6.39 | 0.14 | 26.105 | 0.171 | 1474. | 5.2 |
| 85 | 86.0 | 6.276 | 33.241 | 6:29 | 0.17 | 26.128 | 0.175 | 1475. | 4.9 |
| 87 | 88.1 | 6.385 | 33.276 | 6.26 | 0.17 | 26.142 | 0.179 | 1476. | 4.7 |
| 89 | 89.9 | 6.464 | 33.305 | 6.21 | 0.16 | 26.154 | 0.183 | 1476. | 4.4 |
| 91 | 92.0 | 6.539 | 33.337 | 6.16 | 0.17 | 26.170 | 0.187 | 1476. | 4.0 |
| 93 | 94.0 | 6.550 | 33.346 | 6.13 | 0.18 | 26.176 | 0.190 | 1476. | 3.5 |
| 95 | 96.2 | 6.576 | 33.361 | 6.12 | 0.18 | 26.184 | 0.195 | 1477. | 3.2 |
| 97 | 97.6 | 6.590 | 33.368 | 6.09 | 0.18 | 26.188 | 0.197 | 1477. | 2.9 |
| 99 | 100.0 | 6.599 | 33.371 | 6.07 | 0.18 | 26.189 | 0.201 | 1477. | 2.8 |

| SHIP OC | CRUISE 181 | STATION 63 | DATE 11 FEB 1987 | | EST 1511 | LATITUDE 42°35.6'N | LONGITUDE 68°45.0'W | DEPTH 194 | |
|---------|------------|------------|------------------|----------|---------------------|-------------------------|---|-----------|-------|
| DEPTH m | PRESS dbar | TEMP °C | SALIN psu | OXY ml/l | ATN m ⁻¹ | SIGT gm/cm ³ | DYHT A 10m ² /s ² | S SPD m/s | N cph |
| 101 | 102.0 | 6.654 | 33.384 | 6.06 | 0.17 | 26.192 | 0.205 | 1477. | 2.9 |
| 103 | 103.7 | 6.732 | 33.406 | 6.04 | 0.15 | 26.200 | 0.208 | 1477. | 3.0 |
| 105 | 106.0 | 6.779 | 33.422 | 6.02 | 0.12 | 26.206 | 0.212 | 1478. | 3.3 |
| 107 | 108.3 | 6.827 | 33.445 | 6.00 | 0.09 | 26.217 | 0.217 | 1478. | 3.6 |
| 109 | 109.8 | 6.837 | 33.452 | 5.97 | 0.08 | 26.222 | 0.219 | 1478. | 3.7 |
| 111 | 112.1 | 6.853 | 33.466 | 5.95 | 0.09 | 26.231 | 0.223 | 1478. | 3.8 |
| 113 | 114.4 | 6.875 | 33.488 | 5.95 | 0.09 | 26.245 | 0.228 | 1478. | 3.8 |
| 115 | 115.8 | 6.927 | 33.507 | 5.89 | 0.09 | 26.253 | 0.230 | 1478. | 3.7 |
| 117 | 118.1 | 6.983 | 33.529 | 5.86 | 0.10 | 26.262 | 0.234 | 1479. | 3.6 |
| 119 | 120.2 | 7.055 | 33.554 | 5.85 | 0.10 | 26.273 | 0.238 | 1479. | 3.4 |
| 121 | 121.9 | 7.095 | 33.568 | 5.83 | 0.10 | 26.278 | 0.241 | 1479. | 3.3 |
| 123 | 124.1 | 7.122 | 33.575 | 5.80 | 0.10 | 26.280 | 0.244 | 1479. | 3.3 |
| 125 | 126.2 | 7.150 | 33.588 | 5.78 | 0.10 | 26.286 | 0.248 | 1480. | 3.4 |
| 127 | 128.0 | 7.187 | 33.603 | 5.74 | 0.11 | 26.293 | 0.251 | 1480. | 3.5 |
| 129 | 130.1 | 7.288 | 33.640 | 5.72 | 0.15 | 26.308 | 0.255 | 1480. | 3.6 |
| 131 | 132.2 | 7.346 | 33.659 | 5.71 | 0.19 | 26.315 | 0.259 | 1480. | 3.6 |
| 133 | 133.9 | 7.356 | 33.673 | 5.73 | 0.20 | 26.325 | 0.261 | 1481. | 3.4 |
| 135 | 136.0 | 7.351 | 33.680 | 5.73 | 0.20 | 26.330 | 0.265 | 1481. | 3.2 |
| 137 | 138.2 | 7.353 | 33.689 | 5.74 | 0.19 | 26.338 | 0.269 | 1481. | 2.9 |
| 139 | 139.7 | 7.355 | 33.692 | 5.76 | 0.17 | 26.340 | 0.271 | 1481. | 2.6 |
| 141 | 142.0 | 7.357 | 33.697 | 5.76 | 0.17 | 26.343 | 0.275 | 1481. | 2.4 |
| 143 | 144.2 | 7.359 | 33.701 | 5.77 | 0.16 | 26.346 | 0.279 | 1481. | 2.3 |
| 144 | 145.6 | 7.360 | 33.704 | 5.76 | 0.18 | 26.349 | 0.281 | 1481. | 2.2 |
| 147 | 148.1 | 7.363 | 33.709 | 5.76 | 0.18 | 26.352 | 0.285 | 1481. | 2.3 |
| 149 | 150.1 | 7.374 | 33.715 | 5.76 | 0.18 | 26.355 | 0.289 | 1481. | 2.4 |
| 151 | 151.9 | 7.387 | 33.721 | 5.56 | 0.18 | 26.358 | 0.292 | 1481. | 2.5 |
| 153 | 154.0 | 7.397 | 33.728 | 5.36 | 0.18 | 26.362 | 0.295 | 1481. | 2.6 |
| 155 | 156.0 | 7.415 | 33.739 | 5.34 | 0.19 | 26.369 | 0.299 | 1481. | 2.8 |
| 157 | 158.1 | 7.427 | 33.749 | 5.34 | 0.21 | 26.374 | 0.302 | 1481. | 2.9 |
| 159 | 159.9 | 7.435 | 33.755 | 5.32 | 0.23 | 26.378 | 0.305 | 1481. | 2.9 |
| 161 | 162.0 | 7.447 | 33.763 | 5.31 | 0.24 | 26.383 | 0.309 | 1481. | 2.8 |
| 163 | 164.1 | 7.461 | 33.777 | 5.29 | 0.25 | 26.391 | 0.312 | 1482. | 2.6 |
| 165 | 166.0 | 7.471 | 33.785 | 5.26 | 0.26 | 26.396 | 0.315 | 1482. | 2.5 |
| 167 | 168.1 | 7.480 | 33.790 | 5.24 | 0.26 | 26.399 | 0.319 | 1482. | 2.3 |
| 169 | 170.1 | 7.484 | 33.793 | 5.21 | 0.26 | 26.401 | 0.322 | 1482. | 2.2 |
| 171 | 172.0 | 7.487 | 33.795 | 5.20 | 0.26 | 26.402 | 0.325 | 1482. | 2.3 |
| 172 | 173.9 | 7.489 | 33.798 | 5.16 | 0.26 | 26.404 | 0.328 | 1482. | 2.7 |
| 175 | 176.1 | 7.489 | 33.801 | 5.12 | 0.26 | 26.406 | 0.332 | 1482. | 3.2 |
| 177 | 178.2 | 7.484 | 33.811 | 5.11 | 0.28 | 26.415 | 0.335 | 1482. | 3.7 |
| 178 | 179.2 | 7.478 | 33.822 | 5.10 | 0.29 | 26.425 | 0.337 | 1482. | 4.1 |
| 178 | 179.9 | 7.471 | 33.832 | 5.10 | 0.29 | 26.434 | 0.338 | 1482. | 4.5 |
| 179 | 181.0 | 7.458 | 33.846 | 5.10 | 0.30 | 26.447 | 0.340 | 1482. | 4.6 |
| 180 | 182.0 | 7.451 | 33.851 | 5.09 | 0.31 | 26.451 | 0.342 | 1482. | 4.4 |
| 181 | 183.0 | 7.442 | 33.855 | 5.09 | 0.32 | 26.455 | 0.343 | 1482. | 3.8 |
| 182 | 184.0 | 7.432 | 33.857 | 5.08 | 0.32 | 26.459 | 0.345 | 1482. | 3.3 |
| 183 | 185.0 | 7.427 | 33.859 | 5.07 | 0.33 | 26.461 | 0.346 | 1482. | 3.3 |
| 184 | 186.0 | 7.422 | 33.860 | 5.06 | 0.34 | 26.462 | 0.348 | 1482. | 3.3 |
| 185 | 187.1 | 7.417 | 33.860 | 5.05 | 0.35 | 26.463 | 0.350 | 1482. | 3.3 |
| 186 | 187.7 | 7.415 | 33.861 | 5.05 | 0.35 | 26.464 | 0.351 | 1482. | 3.3 |

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| SHIP OC | CRUISE 181 | STATION 64 | DATE 11 FEB 1987 | | EST 1659 | LATITUDE 42°35.0'N | LONGITUDE 68°30.1'W | DEPTH 220 | |
|---------|------------|------------|------------------|----------|---------------------|-------------------------|---|-----------|-------|
| DEPTH m | PRESS dbar | TEMP °C | SALIN psu | OXY ml/l | ATN m ⁻¹ | SIGT gm/cm ³ | DYHT A 10m ² /s ² | S SPD m/s | N cph |
| 3 | 2.6 | 4.823 | 32.791 | 6.71 | 0.16 | 25.944 | 0.000 | 1467. | 0.5 |
| 4 | 4.2 | 4.823 | 32.792 | 6.71 | 0.14 | 25.945 | 0.003 | 1467. | 0.5 |
| 6 | 5.9 | 4.823 | 32.792 | 6.70 | 0.12 | 25.945 | 0.007 | 1467. | 0.5 |
| 8 | 8.0 | 4.824 | 32.792 | 6.72 | 0.11 | 25.945 | 0.011 | 1467. | 0.5 |
| 10 | 10.0 | 4.824 | 32.792 | 6.72 | 0.11 | 25.945 | 0.015 | 1467. | 0.5 |
| 12 | 11.8 | 4.825 | 32.792 | 6.73 | 0.11 | 25.945 | 0.019 | 1467. | 0.4 |
| 14 | 14.1 | 4.823 | 32.792 | 6.75 | 0.11 | 25.945 | 0.024 | 1467. | 0.4 |
| 16 | 16.0 | 4.820 | 32.793 | 6.75 | 0.11 | 25.945 | 0.027 | 1467. | 0.4 |
| 18 | 18.0 | 4.821 | 32.792 | 6.76 | 0.11 | 25.945 | 0.032 | 1467. | 0.4 |
| 20 | 20.2 | 4.821 | 32.793 | 6.78 | 0.11 | 25.945 | 0.036 | 1468. | 0.4 |
| 22 | 22.0 | 4.825 | 32.793 | 6.79 | 0.11 | 25.946 | 0.040 | 1468. | 0.4 |
| 24 | 24.4 | 4.831 | 32.794 | 6.78 | 0.11 | 25.945 | 0.045 | 1468. | 0.3 |
| 26 | 25.7 | 4.831 | 32.794 | 6.75 | 0.11 | 25.945 | 0.047 | 1468. | 0.5 |
| 28 | 28.0 | 4.833 | 32.794 | 6.75 | 0.11 | 25.945 | 0.052 | 1468. | 0.5 |
| 30 | 29.9 | 4.834 | 32.794 | 6.75 | 0.11 | 25.945 | 0.056 | 1468. | 0.6 |
| 32 | 32.0 | 4.841 | 32.796 | 6.76 | 0.11 | 25.946 | 0.060 | 1468. | 0.7 |
| 34 | 34.0 | 4.844 | 32.798 | 6.76 | 0.11 | 25.947 | 0.064 | 1468. | 0.7 |
| 36 | 36.0 | 4.846 | 32.798 | 6.76 | 0.11 | 25.947 | 0.069 | 1468. | 0.9 |
| 38 | 38.0 | 4.850 | 32.799 | 6.77 | 0.11 | 25.947 | 0.073 | 1468. | 1.0 |
| 40 | 40.1 | 4.850 | 32.799 | 6.78 | 0.11 | 25.947 | 0.077 | 1468. | 1.1 |
| 41 | 41.8 | 4.850 | 32.800 | 6.77 | 0.11 | 25.948 | 0.080 | 1468. | 1.2 |
| 44 | 44.2 | 4.873 | 32.806 | 6.75 | 0.11 | 25.950 | 0.085 | 1468. | 1.1 |
| 45 | 45.7 | 4.872 | 32.806 | 6.75 | 0.11 | 25.951 | 0.088 | 1468. | 1.0 |
| 48 | 48.4 | 4.885 | 32.810 | 6.76 | 0.11 | 25.952 | 0.094 | 1468. | 0.9 |
| 49 | 49.8 | 4.897 | 32.813 | 6.75 | 0.11 | 25.953 | 0.097 | 1468. | 1.0 |
| 52 | 52.1 | 4.902 | 32.811 | 6.75 | 0.11 | 25.951 | 0.101 | 1468. | 1.3 |
| 53 | 53.8 | 4.888 | 32.809 | 6.78 | 0.11 | 25.951 | 0.105 | 1468. | 1.8 |
| 56 | 56.2 | 4.882 | 32.808 | 6.80 | 0.11 | 25.951 | 0.110 | 1468. | 2.4 |
| 58 | 58.0 | 4.904 | 32.818 | 6.77 | 0.11 | 25.956 | 0.114 | 1469. | 3.2 |
| 59 | 59.8 | 4.960 | 32.833 | 6.74 | 0.11 | 25.962 | 0.117 | 1469. | 3.8 |
| 62 | 62.3 | 5.053 | 32.860 | 6.71 | 0.10 | 25.973 | 0.122 | 1469. | 4.3 |
| 63 | 63.8 | 5.128 | 32.884 | 6.65 | 0.10 | 25.983 | 0.125 | 1470. | 5.4 |
| 66 | 66.1 | 5.328 | 32.951 | 6.56 | 0.09 | 26.014 | 0.130 | 1471. | 5.9 |
| 68 | 68.1 | 5.456 | 32.984 | 6.50 | 0.08 | 26.025 | 0.134 | 1471. | 6.1 |
| 69 | 69.9 | 5.623 | 33.026 | 6.42 | 0.08 | 26.039 | 0.138 | 1472. | 6.2 |
| 71 | 72.0 | 5.938 | 33.178 | 6.29 | 0.07 | 26.121 | 0.142 | 1473. | 6.0 |
| 73 | 73.7 | 6.075 | 33.201 | 6.24 | 0.07 | 26.122 | 0.145 | 1474. | 5.7 |
| 76 | 76.3 | 6.182 | 33.237 | 6.20 | 0.07 | 26.137 | 0.150 | 1474. | 5.2 |
| 77 | 77.8 | 6.272 | 33.268 | 6.17 | 0.07 | 26.150 | 0.152 | 1475. | 4.4 |
| 79 | 80.1 | 6.366 | 33.293 | 6.14 | 0.07 | 26.158 | 0.157 | 1475. | 3.3 |
| 81 | 82.0 | 6.420 | 33.309 | 6.12 | 0.07 | 26.164 | 0.160 | 1476. | 3.2 |
| 83 | 84.0 | 6.429 | 33.310 | 6.12 | 0.07 | 26.163 | 0.164 | 1476. | 3.1 |
| 85 | 86.0 | 6.463 | 33.322 | 6.12 | 0.07 | 26.168 | 0.168 | 1476. | 3.2 |
| 87 | 88.1 | 6.511 | 33.338 | 6.11 | 0.07 | 26.175 | 0.171 | 1476. | 3.3 |
| 89 | 90.0 | 6.569 | 33.357 | 6.07 | 0.08 | 26.182 | 0.175 | 1476. | 3.4 |
| 91 | 92.0 | 6.664 | 33.391 | 6.02 | 0.08 | 26.196 | 0.179 | 1477. | 3.5 |
| 93 | 94.1 | 6.725 | 33.413 | 6.00 | 0.08 | 26.206 | 0.183 | 1477. | 3.5 |
| 95 | 95.8 | 6.767 | 33.430 | 5.96 | 0.08 | 26.213 | 0.186 | 1477. | 3.5 |
| 97 | 98.2 | 6.796 | 33.438 | 5.95 | 0.09 | 26.216 | 0.190 | 1478. | 3.4 |
| 99 | 100.1 | 6.834 | 33.453 | 5.93 | 0.09 | 26.223 | 0.193 | 1478. | 3.3 |

SHIP CRUISE STATION DATE EST LATITUDE LONGITUDE DEPTH
 OC 181 64 11 FEB 1987 1659 42°35.0'N 68°30.1'W 220

| DEPTH | PRESS | TEMP | SALIN | OXY | ATN | SIGT | DYHT A | S SPD | N |
|-------|-------|-------|--------|------|-----------------|--------------------|----------------------------------|-------|-----|
| m | dbar | °C | psu | ml/l | m ⁻¹ | gm/cm ³ | 10m ² /s ² | m/s | cph |
| 101 | 102.3 | 6.890 | 33.475 | 5.91 | 0.09 | 26.233 | 0.197 | 1478. | 3.3 |
| 103 | 103.9 | 6.919 | 33.486 | 5.86 | 0.10 | 26.238 | 0.200 | 1478. | 3.2 |
| 105 | 106.2 | 6.977 | 33.509 | 5.85 | 0.10 | 26.248 | 0.204 | 1478. | 3.4 |
| 107 | 107.8 | 7.004 | 33.521 | 5.82 | 0.11 | 26.253 | 0.207 | 1479. | 3.4 |
| 109 | 110.1 | 7.037 | 33.532 | 5.81 | 0.11 | 26.258 | 0.211 | 1479. | 3.3 |
| 111 | 111.8 | 7.055 | 33.541 | 5.80 | 0.11 | 26.262 | 0.214 | 1479. | 3.1 |
| 113 | 114.2 | 7.148 | 33.577 | 5.78 | 0.12 | 26.278 | 0.218 | 1479. | 2.9 |
| 115 | 115.8 | 7.178 | 33.590 | 5.74 | 0.13 | 26.284 | 0.221 | 1479. | 2.6 |
| 117 | 118.0 | 7.183 | 33.591 | 5.74 | 0.13 | 26.284 | 0.225 | 1480. | 2.4 |
| 119 | 119.9 | 7.187 | 33.592 | 5.75 | 0.13 | 26.285 | 0.228 | 1480. | 2.2 |
| 121 | 122.0 | 7.195 | 33.595 | 5.76 | 0.13 | 26.286 | 0.232 | 1480. | 2.0 |
| 123 | 123.9 | 7.203 | 33.598 | 5.76 | 0.13 | 26.287 | 0.235 | 1480. | 2.0 |
| 125 | 125.9 | 7.235 | 33.611 | 5.74 | 0.13 | 26.292 | 0.239 | 1480. | 2.1 |
| 127 | 128.0 | 7.274 | 33.625 | 5.73 | 0.13 | 26.298 | 0.242 | 1480. | 2.2 |
| 129 | 130.0 | 7.284 | 33.629 | 5.72 | 0.13 | 26.300 | 0.246 | 1480. | 2.2 |
| 131 | 131.9 | 7.295 | 33.634 | 5.72 | 0.14 | 26.302 | 0.249 | 1480. | 2.2 |
| 133 | 134.1 | 7.310 | 33.640 | 5.71 | 0.14 | 26.305 | 0.253 | 1480. | 2.2 |
| 135 | 136.0 | 7.315 | 33.643 | 5.70 | 0.14 | 26.306 | 0.256 | 1480. | 2.3 |
| 137 | 137.8 | 7.323 | 33.646 | 5.69 | 0.14 | 26.308 | 0.259 | 1480. | 2.6 |
| 139 | 140.0 | 7.380 | 33.667 | 5.66 | 0.13 | 26.317 | 0.263 | 1481. | 3.3 |
| 141 | 141.9 | 7.397 | 33.673 | 5.65 | 0.14 | 26.319 | 0.266 | 1481. | 3.7 |
| 143 | 144.1 | 7.436 | 33.688 | 5.62 | 0.14 | 26.325 | 0.270 | 1481. | 3.9 |
| 145 | 145.9 | 7.537 | 33.726 | 5.55 | 0.13 | 26.341 | 0.273 | 1482. | 4.1 |
| 147 | 148.0 | 7.711 | 33.790 | 5.46 | 0.11 | 26.366 | 0.277 | 1482. | 4.2 |
| 149 | 149.8 | 7.732 | 33.803 | 5.41 | 0.11 | 26.373 | 0.280 | 1482. | 4.3 |
| 151 | 152.1 | 7.746 | 33.813 | 5.38 | 0.11 | 26.379 | 0.284 | 1483. | 4.4 |
| 152 | 153.7 | 7.773 | 33.832 | 5.36 | 0.12 | 26.390 | 0.286 | 1483. | 4.3 |
| 155 | 156.2 | 7.790 | 33.845 | 5.31 | 0.12 | 26.398 | 0.290 | 1483. | 4.1 |
| 157 | 157.8 | 7.815 | 33.875 | 4.98 | 0.14 | 26.418 | 0.293 | 1483. | 4.1 |
| 159 | 160.3 | 7.820 | 33.902 | 4.98 | 0.15 | 26.438 | 0.297 | 1483. | 3.9 |
| 161 | 162.0 | 7.817 | 33.904 | 4.96 | 0.16 | 26.441 | 0.300 | 1483. | 3.5 |
| 163 | 163.9 | 7.820 | 33.909 | 4.97 | 0.16 | 26.444 | 0.303 | 1483. | 3.2 |
| 165 | 166.1 | 7.772 | 33.905 | 5.00 | 0.16 | 26.448 | 0.306 | 1483. | 2.9 |
| 167 | 168.1 | 7.756 | 33.905 | 5.03 | 0.17 | 26.450 | 0.309 | 1483. | 2.8 |
| 168 | 169.7 | 7.745 | 33.906 | 5.05 | 0.17 | 26.452 | 0.312 | 1483. | 3.0 |
| 171 | 172.1 | 7.724 | 33.915 | 5.06 | 0.18 | 26.462 | 0.316 | 1483. | 3.1 |
| 172 | 173.9 | 7.729 | 33.924 | 5.05 | 0.18 | 26.469 | 0.319 | 1483. | 3.2 |
| 175 | 176.1 | 7.741 | 33.941 | 5.06 | 0.18 | 26.480 | 0.322 | 1483. | 3.1 |
| 177 | 178.1 | 7.747 | 33.949 | 5.05 | 0.19 | 26.486 | 0.325 | 1483. | 2.9 |
| 179 | 180.2 | 7.752 | 33.955 | 5.05 | 0.19 | 26.490 | 0.329 | 1483. | 2.5 |
| 181 | 182.0 | 7.750 | 33.958 | 5.04 | 0.20 | 26.492 | 0.331 | 1483. | 2.2 |
| 182 | 184.0 | 7.749 | 33.959 | 5.04 | 0.20 | 26.494 | 0.335 | 1483. | 1.9 |
| 185 | 186.2 | 7.748 | 33.961 | 5.03 | 0.20 | 26.495 | 0.338 | 1483. | 1.9 |
| 186 | 188.0 | 7.748 | 33.962 | 5.03 | 0.20 | 26.495 | 0.341 | 1483. | 2.0 |
| 189 | 190.3 | 7.748 | 33.964 | 5.03 | 0.21 | 26.497 | 0.344 | 1483. | 2.2 |
| 190 | 192.0 | 7.760 | 33.973 | 5.03 | 0.21 | 26.503 | 0.347 | 1483. | 2.3 |
| 192 | 194.1 | 7.775 | 33.982 | 5.03 | 0.21 | 26.508 | 0.350 | 1484. | 2.4 |
| 194 | 196.0 | 7.782 | 33.989 | 5.02 | 0.21 | 26.512 | 0.353 | 1484. | 2.4 |
| 196 | 198.0 | 7.772 | 33.993 | 5.02 | 0.23 | 26.517 | 0.356 | 1484. | 2.3 |
| 198 | 200.1 | 7.761 | 33.992 | 5.01 | 0.27 | 26.518 | 0.359 | 1484. | 2.2 |

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SHIP CRUISE STATION DATE EST LATITUDE LONGITUDE DEPTH
 OC 181 64 11 FEB 1987 1659 42°35.0'N 68°30.1'W 220

| DEPTH | PRESS | TEMP | SALIN | OXY | ATN | SIGT | DYHT A | S SPD | N |
|-------|-------|-------|--------|------|-----------------|--------------------|----------------------------------|-------|-----|
| m | dbar | °C | psu | ml/l | m ⁻¹ | gm/cm ³ | 10m ² /s ² | m/s | cph |
| 200 | 201.2 | 7.757 | 33.992 | 5.02 | 0.29 | 26.518 | 0.361 | 1484. | 2.1 |
| 200 | 202.0 | 7.756 | 33.993 | 5.02 | 0.30 | 26.519 | 0.362 | 1484. | 2.1 |
| 201 | 202.9 | 7.754 | 33.994 | 5.01 | 0.29 | 26.520 | 0.364 | 1484. | 2.0 |
| 202 | 204.0 | 7.746 | 33.996 | 5.01 | 0.28 | 26.523 | 0.365 | 1484. | 2.1 |
| 203 | 204.9 | 7.737 | 33.997 | 5.02 | 0.29 | 26.525 | 0.367 | 1484. | 2.1 |
| 204 | 206.1 | 7.730 | 33.997 | 5.03 | 0.30 | 26.526 | 0.369 | 1484. | 1.9 |
| 205 | 207.0 | 7.726 | 33.998 | 5.02 | 0.31 | 26.527 | 0.370 | 1484. | 1.6 |
| 206 | 208.0 | 7.725 | 33.997 | 5.02 | 0.32 | 26.527 | 0.372 | 1484. | 1.3 |
| 207 | 209.0 | 7.724 | 33.997 | 5.02 | 0.33 | 26.527 | 0.373 | 1484. | 1.0 |
| 208 | 210.1 | 7.724 | 33.998 | 5.02 | 0.33 | 26.528 | 0.375 | 1484. | 0.7 |
| 209 | 211.0 | 7.724 | 33.997 | 5.02 | 0.33 | 26.527 | 0.376 | 1484. | 0.5 |
| 210 | 212.0 | 7.724 | 33.998 | 5.03 | 0.33 | 26.528 | 0.378 | 1484. | 0.5 |
| 211 | 213.0 | 7.724 | 33.998 | 5.03 | 0.33 | 26.528 | 0.379 | 1484. | 0.5 |
| 212 | 213.9 | 7.724 | 33.998 | 5.03 | 0.34 | 26.528 | 0.381 | 1484. | 0.5 |
| 213 | 215.1 | 7.725 | 33.998 | 5.02 | 0.37 | 26.527 | 0.382 | 1484. | 0.5 |

| SHIP OC | CRUISE 181 | STATION 65 | DATE 11 FEB 1987 | | EST 1859 | LATITUDE 42°34.5'N | LONGITUDE 68°15.2'W | DEPTH 194 | | |
|------------|---------------|---------------|---------------------|-------------|------------------------|----------------------------|--|--------------|----------|--|
| DEPTH m | PRESS dbar | TEMP °C | SALIN psu | OXY ml/l | ATN m ⁻¹ | SIGT gm/cm ³ | DYHT A 10m ² /s ² | S SPD m/s | N cph | |
| 3 | 2.5 | 4.631 | 32.720 | 7.45 | 0.14 | 25.908 | 0.000 | 1466. | 0.6 | |
| 4 | 3.8 | 4.630 | 32.720 | 7.42 | 0.11 | 25.908 | 0.003 | 1466. | 0.6 | |
| 6 | 6.1 | 4.630 | 32.720 | 7.42 | 0.09 | 25.908 | 0.008 | 1466. | 0.6 | |
| 8 | 7.8 | 4.630 | 32.721 | 7.40 | 0.08 | 25.909 | 0.011 | 1466. | 0.6 | |
| 10 | 10.1 | 4.631 | 32.720 | 7.41 | 0.08 | 25.908 | 0.016 | 1466. | 0.6 | |
| 12 | 12.0 | 4.632 | 32.720 | 7.43 | 0.08 | 25.908 | 0.020 | 1467. | 0.5 | |
| 14 | 14.0 | 4.634 | 32.721 | 7.43 | 0.08 | 25.908 | 0.024 | 1467. | 0.7 | |
| 16 | 16.0 | 4.640 | 32.722 | 7.42 | 0.08 | 25.909 | 0.028 | 1467. | 0.7 | |
| 18 | 17.7 | 4.642 | 32.724 | 7.41 | 0.08 | 25.910 | 0.032 | 1467. | 0.6 | |
| 20 | 20.0 | 4.648 | 32.723 | 7.39 | 0.08 | 25.909 | 0.036 | 1467. | 0.4 | |
| 22 | 22.3 | 4.652 | 32.727 | 7.42 | 0.08 | 25.912 | 0.041 | 1467. | -0.3 | |
| 24 | 23.8 | 4.646 | 32.725 | 7.43 | 0.08 | 25.910 | 0.044 | 1467. | -0.6 | |
| 26 | 25.9 | 4.640 | 32.722 | 7.40 | 0.08 | 25.909 | 0.049 | 1467. | -0.7 | |
| 28 | 28.0 | 4.639 | 32.721 | 7.40 | 0.08 | 25.908 | 0.053 | 1467. | -0.4 | |
| 30 | 30.1 | 4.636 | 32.721 | 7.41 | 0.08 | 25.908 | 0.057 | 1467. | -0.3 | |
| 32 | 31.9 | 4.636 | 32.720 | 7.40 | 0.08 | 25.908 | 0.061 | 1467. | 0.6 | |
| 34 | 34.3 | 4.636 | 32.720 | 7.42 | 0.08 | 25.908 | 0.066 | 1467. | 1.8 | |
| 36 | 36.0 | 4.649 | 32.726 | 7.41 | 0.08 | 25.911 | 0.070 | 1467. | 2.8 | |
| 37 | 37.7 | 4.649 | 32.725 | 7.41 | 0.08 | 25.910 | 0.073 | 1467. | 3.6 | |
| 40 | 40.2 | 4.645 | 32.726 | 7.41 | 0.08 | 25.911 | 0.079 | 1467. | 4.3 | |
| 42 | 41.9 | 4.772 | 32.772 | 7.36 | 0.08 | 25.934 | 0.082 | 1468. | 4.9 | |
| 44 | 44.2 | 4.900 | 32.822 | 7.29 | 0.08 | 25.960 | 0.087 | 1468. | 5.3 | |
| 45 | 45.7 | 4.977 | 32.859 | 7.25 | 0.08 | 25.980 | 0.090 | 1469. | 5.6 | |
| 48 | 48.1 | 5.100 | 32.905 | 7.20 | 0.08 | 26.003 | 0.095 | 1469. | 5.8 | |
| 49 | 49.8 | 5.168 | 32.932 | 7.16 | 0.08 | 26.018 | 0.098 | 1470. | 5.9 | |
| 52 | 52.0 | 5.256 | 32.971 | 7.12 | 0.08 | 26.038 | 0.102 | 1470. | 5.9 | |
| 54 | 54.0 | 5.346 | 33.010 | 7.07 | 0.07 | 26.059 | 0.106 | 1470. | 5.9 | |
| 55 | 55.9 | 5.503 | 33.073 | 6.99 | 0.07 | 26.090 | 0.110 | 1471. | 5.8 | |
| 58 | 58.3 | 5.658 | 33.136 | 6.94 | 0.07 | 26.122 | 0.115 | 1472. | 5.5 | |
| 59 | 59.9 | 5.718 | 33.162 | 6.90 | 0.07 | 26.135 | 0.118 | 1472. | 5.0 | |
| 62 | 62.0 | 5.790 | 33.194 | 6.88 | 0.07 | 26.151 | 0.122 | 1473. | 4.4 | |
| 63 | 63.9 | 5.820 | 33.207 | 6.87 | 0.07 | 26.159 | 0.125 | 1473. | 3.6 | |
| 65 | 65.9 | 5.828 | 33.213 | 6.86 | 0.07 | 26.162 | 0.129 | 1473. | 2.7 | |
| 68 | 68.3 | 5.828 | 33.215 | 6.87 | 0.07 | 26.163 | 0.133 | 1473. | 2.1 | |
| 69 | 69.9 | 5.833 | 33.215 | 6.85 | 0.07 | 26.163 | 0.136 | 1473. | 1.6 | |
| 72 | 72.1 | 5.835 | 33.216 | 6.85 | 0.07 | 26.163 | 0.140 | 1473. | 1.2 | |
| 73 | 73.8 | 5.845 | 33.219 | 6.86 | 0.07 | 26.165 | 0.143 | 1473. | 1.0 | |
| 76 | 76.3 | 5.859 | 33.223 | 6.86 | 0.07 | 26.166 | 0.148 | 1473. | 0.9 | |
| 77 | 77.8 | 5.863 | 33.225 | 6.85 | 0.07 | 26.167 | 0.151 | 1473. | 0.9 | |
| 79 | 80.1 | 5.863 | 33.225 | 6.85 | 0.07 | 26.167 | 0.155 | 1473. | 0.8 | |
| 81 | 81.7 | 5.865 | 33.224 | 6.88 | 0.08 | 26.166 | 0.158 | 1473. | 0.7 | |
| 83 | 84.0 | 5.864 | 33.224 | 6.90 | 0.08 | 26.166 | 0.162 | 1473. | 0.9 | |
| 85 | 85.8 | 5.869 | 33.225 | 6.93 | 0.08 | 26.167 | 0.166 | 1473. | 1.2 | |
| 88 | 88.2 | 5.880 | 33.228 | 6.96 | 0.07 | 26.168 | 0.170 | 1473. | 1.4 | |
| 89 | 90.0 | 5.906 | 33.234 | 6.96 | 0.07 | 26.169 | 0.173 | 1474. | 1.6 | |
| 91 | 92.1 | 5.943 | 33.245 | 6.96 | 0.07 | 26.173 | 0.177 | 1474. | 1.7 | |
| 93 | 94.0 | 5.953 | 33.249 | 6.96 | 0.07 | 26.175 | 0.181 | 1474. | 2.0 | |
| 95 | 95.9 | 5.964 | 33.251 | 6.94 | 0.08 | 26.176 | 0.184 | 1474. | 2.7 | |
| 97 | 98.0 | 5.975 | 33.256 | 6.78 | 0.08 | 26.178 | 0.188 | 1474. | 3.3 | |
| 99 | 100.0 | 6.030 | 33.270 | 6.47 | 0.08 | 26.182 | 0.192 | 1474. | 3.8 | |

| SHIP OC | CRUISE 181 | STATION 65 | DATE 11 FEB 1987 | | EST 1859 | LATITUDE 42°34.5'N | LONGITUDE 68°15.2'W | DEPTH 194 | | |
|------------|---------------|---------------|---------------------|-------------|------------------------|----------------------------|--|--------------|----------|--|
| DEPTH m | PRESS dbar | TEMP °C | SALIN psu | OXY ml/l | ATN m ⁻¹ | SIGT gm/cm ³ | DYHT A 10m ² /s ² | S SPD m/s | N cph | |
| 101 | 102.0 | 6.133 | 33.294 | 6.43 | 0.08 | 26.188 | 0.195 | 1475. | 4.0 | |
| 103 | 103.9 | 6.424 | 33.377 | 6.31 | 0.09 | 26.217 | 0.199 | 1476. | 4.1 | |
| 105 | 106.0 | 6.593 | 33.429 | 6.21 | 0.10 | 26.236 | 0.203 | 1477. | 4.1 | |
| 107 | 108.1 | 6.649 | 33.448 | 6.18 | 0.10 | 26.243 | 0.206 | 1477. | 3.8 | |
| 109 | 110.0 | 6.668 | 33.453 | 6.17 | 0.09 | 26.245 | 0.210 | 1477. | 3.3 | |
| 111 | 111.9 | 6.729 | 33.468 | 6.12 | 0.10 | 26.248 | 0.213 | 1478. | 2.6 | |
| 113 | 114.1 | 6.768 | 33.481 | 6.09 | 0.09 | 26.254 | 0.217 | 1478. | 2.2 | |
| 115 | 116.1 | 6.782 | 33.485 | 6.07 | 0.09 | 26.255 | 0.220 | 1478. | 2.1 | |
| 117 | 117.8 | 6.795 | 33.489 | 6.03 | 0.09 | 26.256 | 0.223 | 1478. | 2.3 | |
| 119 | 119.9 | 6.824 | 33.498 | 5.99 | 0.10 | 26.259 | 0.227 | 1478. | 2.5 | |
| 121 | 122.1 | 6.866 | 33.508 | 5.97 | 0.10 | 26.262 | 0.231 | 1478. | 2.7 | |
| 123 | 124.3 | 6.915 | 33.524 | 5.95 | 0.09 | 26.268 | 0.235 | 1479. | 2.9 | |
| 125 | 125.9 | 7.008 | 33.552 | 5.91 | 0.10 | 26.277 | 0.238 | 1479. | 3.3 | |
| 127 | 128.0 | 7.061 | 33.568 | 5.89 | 0.10 | 26.283 | 0.241 | 1479. | 3.7 | |
| 129 | 130.2 | 7.092 | 33.583 | 5.89 | 0.10 | 26.290 | 0.245 | 1479. | 4.0 | |
| 131 | 131.8 | 7.122 | 33.595 | 5.87 | 0.11 | 26.296 | 0.248 | 1480. | 4.2 | |
| 133 | 133.9 | 7.262 | 33.644 | 5.81 | 0.12 | 26.314 | 0.252 | 1480. | 4.2 | |
| 135 | 136.0 | 7.329 | 33.679 | 5.79 | 0.12 | 26.333 | 0.255 | 1481. | 4.1 | |
| 137 | 138.1 | 7.375 | 33.702 | 5.79 | 0.13 | 26.345 | 0.259 | 1481. | 4.0 | |
| 139 | 140.0 | 7.409 | 33.717 | 5.78 | 0.13 | 26.352 | 0.262 | 1481. | 3.8 | |
| 141 | 142.1 | 7.430 | 33.732 | 5.77 | 0.13 | 26.360 | 0.266 | 1481. | 3.7 | |
| 143 | 144.1 | 7.424 | 33.731 | 5.77 | 0.13 | 26.361 | 0.269 | 1481. | 3.7 | |
| 145 | 145.8 | 7.426 | 33.736 | 5.76 | 0.14 | 26.364 | 0.272 | 1481. | 3.8 | |
| 147 | 148.0 | 7.502 | 33.772 | 5.62 | 0.14 | 26.382 | 0.275 | 1481. | 3.9 | |
| 149 | 149.9 | 7.550 | 33.799 | 5.34 | 0.15 | 26.396 | 0.279 | 1482. | 4.1 | |
| 151 | 152.1 | 7.586 | 33.818 | 5.31 | 0.15 | 26.406 | 0.282 | 1482. | 4.3 | |
| 153 | 153.9 | 7.621 | 33.838 | 5.28 | 0.15 | 26.417 | 0.285 | 1482. | 4.3 | |
| 155 | 156.0 | 7.649 | 33.854 | 5.25 | 0.14 | 26.425 | 0.288 | 1482. | 4.1 | |
| 157 | 158.0 | 7.686 | 33.880 | 5.21 | 0.14 | 26.440 | 0.292 | 1482. | 4.0 | |
| 159 | 160.0 | 7.670 | 33.895 | 5.19 | 0.15 | 26.455 | 0.295 | 1482. | 4.0 | |
| 161 | 162.0 | 7.587 | 33.890 | 5.21 | 0.17 | 26.462 | 0.298 | 1482. | 4.0 | |
| 163 | 164.3 | 7.565 | 33.893 | 5.19 | 0.18 | 26.468 | 0.302 | 1482. | 3.9 | |
| 165 | 165.9 | 7.553 | 33.893 | 5.16 | 0.20 | 26.470 | 0.304 | 1482. | 3.8 | |
| 167 | 168.0 | 7.439 | 33.899 | 5.16 | 0.25 | 26.491 | 0.307 | 1482. | 3.7 | |
| 168 | 169.3 | 7.403 | 33.904 | 5.16 | 0.27 | 26.499 | 0.310 | 1482. | 3.9 | |
| 169 | 170.1 | 7.408 | 33.897 | 5.16 | 0.27 | 26.493 | 0.311 | 1482. | 3.9 | |
| 170 | 171.0 | 7.416 | 33.902 | 5.15 | 0.27 | 26.496 | 0.312 | 1482. | 3.8 | |
| 171 | 172.1 | 7.442 | 33.917 | 5.14 | 0.28 | 26.505 | 0.314 | 1482. | 3.4 | |
| 171 | 172.7 | 7.445 | 33.927 | 5.12 | 0.30 | 26.512 | 0.315 | 1482. | 3.4 | |
| 173 | 174.0 | 7.442 | 33.925 | 5.09 | 0.35 | 26.511 | 0.317 | 1482. | 3.4 | |
| 173 | 174.9 | 7.452 | 33.934 | 5.08 | 0.36 | 26.516 | 0.318 | 1482. | 3.2 | |
| 175 | 176.1 | 7.454 | 33.938 | 5.08 | 0.35 | 26.519 | 0.320 | 1482. | 3.2 | |
| 175 | 176.8 | 7.452 | 33.942 | 5.07 | 0.37 | 26.523 | 0.321 | 1482. | 3.2 | |
| 177 | 178.3 | 7.455 | 33.941 | 5.07 | 0.34 | 26.521 | 0.323 | 1482. | 3.2 | |
| 177 | 178.9 | 7.452 | 33.945 | 5.07 | 0.39 | 26.525 | 0.324 | 1482. | 3.2 | |

| SHIP OC | CRUISE 181 | STATION 66 | DATE 12 FEB 1987 | | | EST 0854 | LATITUDE 43°00.2'N | LONGITUDE 68°41.1'W | DEPTH 188 | | |
|---------|------------|------------|------------------|----------|---------------------|-------------------------|---|---------------------|-----------|--|--|
| DEPTH m | PRESS dbar | TEMP °C | SALIN psu | OXY ml/l | ATN m ⁻¹ | SIGT gm/cm ³ | DYHT A 10m ² /s ² | S SPD m/s | N cph | | |
| 3 | 2.5 | 4.644 | 32.687 | 7.36 | 0.09 | 25.881 | 0.000 | 1466. | -0.3 | | |
| 4 | 3.8 | 4.645 | 32.688 | 7.37 | 0.09 | 25.881 | 0.003 | 1466. | -0.3 | | |
| 6 | 6.0 | 4.644 | 32.687 | 7.37 | 0.09 | 25.881 | 0.007 | 1466. | -0.3 | | |
| 8 | 7.9 | 4.642 | 32.687 | 7.37 | 0.09 | 25.881 | 0.011 | 1466. | -0.3 | | |
| 10 | 9.9 | 4.642 | 32.687 | 7.37 | 0.09 | 25.881 | 0.016 | 1466. | -0.3 | | |
| 12 | 11.9 | 4.642 | 32.687 | 7.38 | 0.09 | 25.881 | 0.020 | 1467. | -0.2 | | |
| 14 | 14.1 | 4.643 | 32.687 | 7.40 | 0.09 | 25.881 | 0.024 | 1467. | -0.2 | | |
| 16 | 16.0 | 4.643 | 32.687 | 7.39 | 0.09 | 25.881 | 0.028 | 1467. | -0.2 | | |
| 18 | 18.0 | 4.644 | 32.687 | 7.38 | 0.09 | 25.881 | 0.033 | 1467. | -0.1 | | |
| 20 | 20.0 | 4.644 | 32.687 | 7.38 | 0.09 | 25.881 | 0.037 | 1467. | 0.2 | | |
| 22 | 22.0 | 4.645 | 32.687 | 7.38 | 0.09 | 25.881 | 0.041 | 1467. | 0.2 | | |
| 24 | 24.0 | 4.645 | 32.687 | 7.38 | 0.09 | 25.880 | 0.045 | 1467. | 0.3 | | |
| 26 | 25.9 | 4.647 | 32.687 | 7.38 | 0.09 | 25.881 | 0.049 | 1467. | 0.4 | | |
| 28 | 27.9 | 4.651 | 32.689 | 7.37 | 0.09 | 25.881 | 0.054 | 1467. | 0.5 | | |
| 30 | 30.0 | 4.653 | 32.688 | 7.38 | 0.09 | 25.881 | 0.058 | 1467. | 0.5 | | |
| 32 | 32.1 | 4.658 | 32.689 | 7.39 | 0.09 | 25.881 | 0.062 | 1467. | 0.6 | | |
| 33 | 33.7 | 4.660 | 32.691 | 7.38 | 0.09 | 25.882 | 0.066 | 1467. | 0.6 | | |
| 36 | 36.0 | 4.661 | 32.691 | 7.38 | 0.09 | 25.882 | 0.071 | 1467. | 0.5 | | |
| 38 | 38.1 | 4.661 | 32.691 | 7.39 | 0.09 | 25.882 | 0.075 | 1467. | 0.6 | | |
| 40 | 40.0 | 4.656 | 32.691 | 7.39 | 0.09 | 25.882 | 0.079 | 1467. | 0.5 | | |
| 42 | 41.9 | 4.655 | 32.690 | 7.39 | 0.09 | 25.882 | 0.083 | 1467. | 0.5 | | |
| 44 | 44.1 | 4.654 | 32.690 | 7.39 | 0.09 | 25.882 | 0.088 | 1467. | 0.6 | | |
| 46 | 46.0 | 4.655 | 32.691 | 7.38 | 0.09 | 25.883 | 0.092 | 1467. | 0.7 | | |
| 48 | 47.9 | 4.655 | 32.691 | 7.38 | 0.09 | 25.883 | 0.096 | 1467. | 0.7 | | |
| 50 | 50.0 | 4.656 | 32.692 | 7.38 | 0.09 | 25.883 | 0.100 | 1467. | 0.7 | | |
| 52 | 52.0 | 4.658 | 32.692 | 7.37 | 0.09 | 25.883 | 0.105 | 1467. | 0.7 | | |
| 53 | 53.9 | 4.667 | 32.695 | 7.36 | 0.09 | 25.884 | 0.108 | 1467. | 1.1 | | |
| 56 | 56.0 | 4.672 | 32.696 | 7.37 | 0.09 | 25.884 | 0.113 | 1467. | 1.6 | | |
| 58 | 58.1 | 4.676 | 32.695 | 7.38 | 0.09 | 25.883 | 0.117 | 1467. | 1.9 | | |
| 60 | 60.1 | 4.690 | 32.699 | 7.37 | 0.09 | 25.885 | 0.121 | 1468. | 2.2 | | |
| 61 | 62.0 | 4.727 | 32.713 | 7.34 | 0.09 | 25.892 | 0.126 | 1468. | 2.4 | | |
| 64 | 64.0 | 4.768 | 32.728 | 7.33 | 0.09 | 25.900 | 0.130 | 1468. | 2.8 | | |
| 65 | 66.0 | 4.796 | 32.734 | 7.33 | 0.09 | 25.902 | 0.134 | 1468. | 2.9 | | |
| 68 | 68.1 | 4.818 | 32.743 | 7.34 | 0.09 | 25.906 | 0.138 | 1468. | 2.9 | | |
| 69 | 69.9 | 4.851 | 32.755 | 7.34 | 0.09 | 25.912 | 0.142 | 1468. | 2.9 | | |
| 71 | 71.9 | 4.886 | 32.772 | 7.32 | 0.09 | 25.922 | 0.146 | 1469. | 2.8 | | |
| 73 | 74.0 | 4.911 | 32.778 | 7.31 | 0.09 | 25.924 | 0.151 | 1469. | 3.1 | | |
| 75 | 76.0 | 4.928 | 32.787 | 7.33 | 0.09 | 25.929 | 0.155 | 1469. | 3.2 | | |
| 77 | 78.1 | 4.998 | 32.803 | 7.31 | 0.09 | 25.934 | 0.159 | 1469. | 3.3 | | |
| 79 | 79.9 | 5.026 | 32.812 | 7.30 | 0.09 | 25.938 | 0.163 | 1469. | 3.4 | | |
| 81 | 82.0 | 5.092 | 32.842 | 7.27 | 0.09 | 25.955 | 0.167 | 1470. | 3.6 | | |
| 83 | 84.1 | 5.221 | 32.873 | 7.22 | 0.09 | 25.965 | 0.171 | 1470. | 3.6 | | |
| 85 | 86.2 | 5.290 | 32.892 | 7.20 | 0.09 | 25.972 | 0.176 | 1471. | 3.6 | | |
| 87 | 87.9 | 5.328 | 32.904 | 7.18 | 0.09 | 25.977 | 0.179 | 1471. | 3.5 | | |
| 89 | 89.9 | 5.390 | 32.922 | 7.15 | 0.09 | 25.984 | 0.183 | 1471. | 3.5 | | |
| 91 | 92.0 | 5.426 | 32.935 | 7.14 | 0.09 | 25.990 | 0.188 | 1471. | 3.6 | | |
| 93 | 94.1 | 5.505 | 32.961 | 7.11 | 0.09 | 26.002 | 0.192 | 1472. | 3.6 | | |
| 95 | 96.1 | 5.566 | 32.980 | 7.10 | 0.09 | 26.009 | 0.196 | 1472. | 3.6 | | |
| 97 | 97.9 | 5.629 | 33.006 | 7.07 | 0.09 | 26.023 | 0.199 | 1472. | 3.5 | | |
| 99 | 100.0 | 5.655 | 33.020 | 7.07 | 0.09 | 26.030 | 0.203 | 1472. | 3.3 | | |

| SHIP OC | CRUISE 181 | STATION 66 | DATE 12 FEB 1987 | | | EST 0854 | LATITUDE 43°00.2'N | LONGITUDE 68°41.1'W | DEPTH 188 | | |
|---------|------------|------------|------------------|----------|---------------------|-------------------------|---|---------------------|-----------|--|--|
| DEPTH m | PRESS dbar | TEMP °C | SALIN psu | OXY ml/l | ATN m ⁻¹ | SIGT gm/cm ³ | DYHT A 10m ² /s ² | S SPD m/s | N cph | | |
| 101 | 102.1 | 5.677 | 33.029 | 6.82 | 0.09 | 26.035 | 0.208 | 1473. | 3.1 | | |
| 103 | 104.0 | 5.687 | 33.034 | 6.67 | 0.09 | 26.037 | 0.211 | 1473. | 3.1 | | |
| 105 | 105.9 | 5.708 | 33.044 | 6.66 | 0.08 | 26.043 | 0.215 | 1473. | 3.2 | | |
| 107 | 108.0 | 5.720 | 33.050 | 6.66 | 0.08 | 26.046 | 0.219 | 1473. | 3.4 | | |
| 109 | 110.1 | 5.777 | 33.068 | 6.65 | 0.08 | 26.053 | 0.223 | 1473. | 3.7 | | |
| 111 | 112.1 | 5.881 | 33.107 | 6.63 | 0.08 | 26.072 | 0.227 | 1474. | 3.9 | | |
| 113 | 113.9 | 5.917 | 33.122 | 6.62 | 0.08 | 26.079 | 0.231 | 1474. | 3.9 | | |
| 115 | 116.0 | 5.956 | 33.139 | 6.62 | 0.08 | 26.087 | 0.235 | 1474. | 3.9 | | |
| 117 | 118.0 | 6.043 | 33.173 | 6.59 | 0.09 | 26.104 | 0.239 | 1475. | 3.6 | | |
| 119 | 120.2 | 6.074 | 33.187 | 6.59 | 0.09 | 26.111 | 0.243 | 1475. | 3.3 | | |
| 121 | 121.8 | 6.085 | 33.191 | 6.59 | 0.09 | 26.113 | 0.246 | 1475. | 3.0 | | |
| 123 | 123.9 | 6.102 | 33.200 | 6.58 | 0.10 | 26.118 | 0.250 | 1475. | 2.6 | | |
| 125 | 126.0 | 6.117 | 33.206 | 6.58 | 0.09 | 26.121 | 0.254 | 1475. | 2.1 | | |
| 127 | 128.2 | 6.129 | 33.213 | 6.56 | 0.09 | 26.125 | 0.258 | 1475. | 2.1 | | |
| 129 | 129.9 | 6.131 | 33.214 | 6.53 | 0.09 | 26.126 | 0.261 | 1475. | 2.3 | | |
| 131 | 132.1 | 6.145 | 33.217 | 6.51 | 0.08 | 26.126 | 0.265 | 1475. | 2.8 | | |
| 133 | 134.2 | 6.155 | 33.220 | 6.51 | 0.08 | 26.127 | 0.269 | 1475. | 3.1 | | |
| 135 | 136.0 | 6.182 | 33.237 | 6.46 | 0.07 | 26.137 | 0.273 | 1475. | 3.4 | | |
| 137 | 138.0 | 6.260 | 33.261 | 6.37 | 0.07 | 26.146 | 0.276 | 1476. | 3.7 | | |
| 139 | 140.0 | 6.344 | 33.300 | 6.31 | 0.07 | 26.166 | 0.280 | 1476. | 4.0 | | |
| 141 | 142.1 | 6.410 | 33.318 | 6.25 | 0.07 | 26.172 | 0.284 | 1477. | 4.7 | | |
| 143 | 144.0 | 6.468 | 33.334 | 6.16 | 0.08 | 26.177 | 0.288 | 1477. | 5.3 | | |
| 145 | 146.0 | 6.623 | 33.378 | 5.75 | 0.09 | 26.192 | 0.291 | 1478. | 5.8 | | |
| 147 | 148.1 | 6.749 | 33.417 | 5.63 | 0.10 | 26.206 | 0.295 | 1478. | 6.0 | | |
| 149 | 149.9 | 7.152 | 33.556 | 5.49 | 0.14 | 26.260 | 0.298 | 1480. | 6.1 | | |
| 151 | 152.0 | 7.342 | 33.635 | 5.42 | 0.18 | 26.297 | 0.302 | 1481. | 6.0 | | |
| 153 | 154.1 | 7.437 | 33.683 | 5.38 | 0.20 | 26.321 | 0.306 | 1481. | 5.6 | | |
| 155 | 155.9 | 7.456 | 33.693 | 5.36 | 0.20 | 26.326 | 0.309 | 1481. | 4.9 | | |
| 157 | 157.9 | 7.491 | 33.711 | 5.34 | 0.22 | 26.335 | 0.312 | 1482. | 4.0 | | |
| 159 | 160.0 | 7.522 | 33.727 | 5.32 | 0.23 | 26.343 | 0.316 | 1482. | 3.3 | | |
| 161 | 162.1 | 7.529 | 33.732 | 5.31 | 0.24 | 26.347 | 0.319 | 1482. | 2.8 | | |
| 163 | 164.1 | 7.541 | 33.739 | 5.29 | 0.28 | 26.350 | 0.323 | 1482. | 2.5 | | |
| 165 | 165.9 | 7.550 | 33.752 | 5.28 | 0.32 | 26.359 | 0.326 | 1482. | 2.2 | | |
| 167 | 168.0 | 7.550 | 33.752 | 5.27 | 0.33 | 26.359 | 0.329 | 1482. | 1.8 | | |
| 169 | 170.1 | 7.550 | 33.752 | 5.26 | 0.33 | 26.359 | 0.333 | 1482. | 1.6 | | |
| 171 | 172.1 | 7.550 | 33.752 | 5.25 | 0.32 | 26.359 | 0.336 | 1482. | 1.2 | | |
| 172 | 173.9 | 7.551 | 33.753 | 5.23 | 0.32 | 26.360 | 0.339 | 1482. | 0.3 | | |
| 174 | 175.2 | 7.551 | 33.753 | 5.23 | 0.33 | 26.359 | 0.341 | 1482. | 0.3 | | |
| 175 | 176.0 | 7.550 | 33.752 | 5.22 | 0.33 | 26.359 | 0.343 | 1482. | -0.3 | | |
| 177 | 177.0 | 7.550 | 33.752 | 5.21 | 0.33 | 26.359 | 0.344 | 1482. | -0.5 | | |
| 178 | 179.0 | 7.548 | 33.752 | 5.20 | 0.33 | 26.359 | 0.346 | 1482. | -0.5 | | |
| 178 | 179.0 | 7.548 | 33.752 | 5.20 | 0.34 | 26.359 | 0.348 | 1482. | -0.4 | | |
| 178 | 180.0 | 7.548 | 33.751 | 5.19 | 0.33 | 26.359 | 0.349 | 1482. | -0.3 | | |
| 180 | 181.0 | 7.547 | 33.751 | 5.18 | 0.32 | 26.359 | 0.351 | 1482. | -0.3 | | |
| 181 | 182.0 | 7.548 | 33.751 | 5.17 | 0.32 | 26.359 | 0.353 | 1482. | -0.3 | | |
| 181 | 182.9 | 7.548 | 33.751 | 5.15 | 0.31 | 26.359 | 0.354 | 1482. | -0.3 | | |
| 182 | 184.0 | 7.548 | 33.752 | 5.15 | 0.32 | 26.359 | 0.356 | 1482. | -0.3 | | |
| 183 | 184.7 | 7.548 | 33.751 | 5.15 | 0.32 | 26.359 | 0.357 | 1482. | -0.3 | | |

| SHIP OC | CRUISE 181 | STATION 67 | DATE 12 FEB 1987 | | EST 1019 | LATITUDE 43°05.9'N | LONGITUDE 68°29.9'W | DEPTH 205 | | |
|------------|---------------|---------------|---------------------|-------------|------------------------|----------------------------|--|--------------|----------|--|
| DEPTH m | PRESS dbar | TEMP °C | SALIN psu | OXY ml/l | ATN m ⁻¹ | SIGT gm/cm ³ | DYHT A 10m ² /s ² | S SPD m/s | N cph | |
| 2 | 2.5 | 4.095 | 32.421 | 7.65 | 0.10 | 25.726 | 0.000 | 1464. | -0.3 | |
| 4 | 4.1 | 4.096 | 32.422 | 7.65 | 0.10 | 25.726 | 0.004 | 1464. | -0.3 | |
| 6 | 5.8 | 4.098 | 32.423 | 7.66 | 0.10 | 25.727 | 0.007 | 1464. | -0.3 | |
| 8 | 8.1 | 4.099 | 32.421 | 7.66 | 0.10 | 25.726 | 0.013 | 1464. | -0.3 | |
| 10 | 9.9 | 4.098 | 32.422 | 7.67 | 0.10 | 25.726 | 0.017 | 1464. | -0.3 | |
| 12 | 11.9 | 4.098 | 32.421 | 7.66 | 0.10 | 25.726 | 0.021 | 1464. | -0.4 | |
| 14 | 14.2 | 4.098 | 32.421 | 7.67 | 0.10 | 25.726 | 0.027 | 1464. | -0.4 | |
| 16 | 15.9 | 4.098 | 32.421 | 7.67 | 0.10 | 25.725 | 0.030 | 1464. | 0.6 | |
| 18 | 18.3 | 4.098 | 32.422 | 7.67 | 0.11 | 25.726 | 0.036 | 1464. | 1.0 | |
| 20 | 19.8 | 4.098 | 32.421 | 7.66 | 0.11 | 25.726 | 0.039 | 1464. | 1.4 | |
| 22 | 22.1 | 4.097 | 32.421 | 7.65 | 0.11 | 25.726 | 0.044 | 1464. | 1.7 | |
| 24 | 23.8 | 4.113 | 32.427 | 7.65 | 0.10 | 25.729 | 0.048 | 1464. | 1.9 | |
| 26 | 25.9 | 4.137 | 32.436 | 7.63 | 0.10 | 25.733 | 0.053 | 1464. | 1.9 | |
| 28 | 28.1 | 4.164 | 32.444 | 7.62 | 0.10 | 25.737 | 0.058 | 1464. | 1.9 | |
| 30 | 30.0 | 4.177 | 32.449 | 7.62 | 0.10 | 25.740 | 0.062 | 1465. | 1.9 | |
| 32 | 31.9 | 4.184 | 32.450 | 7.62 | 0.10 | 25.740 | 0.066 | 1465. | 2.2 | |
| 34 | 34.0 | 4.183 | 32.451 | 7.61 | 0.10 | 25.741 | 0.071 | 1465. | 2.4 | |
| 36 | 36.2 | 4.193 | 32.454 | 7.60 | 0.10 | 25.742 | 0.076 | 1465. | 2.8 | |
| 38 | 37.9 | 4.210 | 32.459 | 7.60 | 0.10 | 25.745 | 0.080 | 1465. | 3.3 | |
| 40 | 40.0 | 4.303 | 32.495 | 7.55 | 0.10 | 25.763 | 0.084 | 1465. | 3.7 | |
| 42 | 42.0 | 4.330 | 32.499 | 7.55 | 0.10 | 25.764 | 0.089 | 1465. | 4.3 | |
| 44 | 44.1 | 4.410 | 32.528 | 7.51 | 0.10 | 25.779 | 0.094 | 1466. | 4.8 | |
| 46 | 45.9 | 4.517 | 32.568 | 7.46 | 0.09 | 25.800 | 0.098 | 1466. | 4.9 | |
| 48 | 48.0 | 4.608 | 32.590 | 7.41 | 0.09 | 25.808 | 0.102 | 1467. | 4.9 | |
| 50 | 50.1 | 4.767 | 32.654 | 7.35 | 0.09 | 25.841 | 0.107 | 1468. | 4.8 | |
| 51 | 51.9 | 4.869 | 32.686 | 7.30 | 0.09 | 25.856 | 0.111 | 1468. | 4.5 | |
| 54 | 54.0 | 4.921 | 32.701 | 7.27 | 0.08 | 25.862 | 0.115 | 1468. | 4.1 | |
| 55 | 55.8 | 4.967 | 32.718 | 7.25 | 0.08 | 25.870 | 0.119 | 1469. | 3.8 | |
| 58 | 58.1 | 4.994 | 32.728 | 7.23 | 0.08 | 25.875 | 0.124 | 1469. | 3.5 | |
| 59 | 59.8 | 5.021 | 32.739 | 7.22 | 0.08 | 25.881 | 0.127 | 1469. | 3.5 | |
| 62 | 62.1 | 5.062 | 32.750 | 7.20 | 0.09 | 25.885 | 0.132 | 1469. | 3.5 | |
| 63 | 63.9 | 5.099 | 32.766 | 7.18 | 0.09 | 25.894 | 0.136 | 1469. | 3.3 | |
| 66 | 66.0 | 5.235 | 32.812 | 7.12 | 0.09 | 25.915 | 0.141 | 1470. | 3.2 | |
| 68 | 68.1 | 5.255 | 32.819 | 7.12 | 0.09 | 25.918 | 0.145 | 1470. | 3.3 | |
| 69 | 70.0 | 5.264 | 32.823 | 7.11 | 0.09 | 25.920 | 0.149 | 1470. | 3.3 | |
| 72 | 72.2 | 5.254 | 32.821 | 7.11 | 0.09 | 25.920 | 0.153 | 1470. | 3.1 | |
| 73 | 73.9 | 5.235 | 32.820 | 7.12 | 0.08 | 25.921 | 0.157 | 1470. | 2.9 | |
| 76 | 76.2 | 5.381 | 32.869 | 7.06 | 0.08 | 25.943 | 0.162 | 1471. | 3.0 | |
| 77 | 77.8 | 5.455 | 32.882 | 7.04 | 0.08 | 25.945 | 0.165 | 1471. | 2.9 | |
| 79 | 80.0 | 5.498 | 32.894 | 7.00 | 0.08 | 25.949 | 0.170 | 1471. | 2.7 | |
| 81 | 82.0 | 5.543 | 32.906 | 6.97 | 0.08 | 25.953 | 0.174 | 1472. | 2.3 | |
| 83 | 83.9 | 5.573 | 32.912 | 6.94 | 0.08 | 25.955 | 0.177 | 1472. | 1.7 | |
| 85 | 86.0 | 5.595 | 32.918 | 6.90 | 0.08 | 25.956 | 0.182 | 1472. | 1.5 | |
| 87 | 87.9 | 5.607 | 32.919 | 6.88 | 0.08 | 25.956 | 0.186 | 1472. | 1.3 | |
| 89 | 90.1 | 5.602 | 32.919 | 6.86 | 0.08 | 25.956 | 0.190 | 1472. | 1.1 | |
| 91 | 92.0 | 5.600 | 32.920 | 6.86 | 0.08 | 25.958 | 0.194 | 1472. | 1.0 | |
| 93 | 93.9 | 5.606 | 32.923 | 6.85 | 0.08 | 25.959 | 0.198 | 1472. | 1.1 | |
| 95 | 96.1 | 5.596 | 32.921 | 6.85 | 0.08 | 25.959 | 0.203 | 1472. | 1.1 | |
| 97 | 97.9 | 5.574 | 32.918 | 6.88 | 0.08 | 25.959 | 0.206 | 1472. | 1.1 | |
| 100 | 100.3 | 5.565 | 32.919 | 6.61 | 0.08 | 25.961 | 0.211 | 1472. | 1.1 | |

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| SHIP OC | CRUISE 181 | STATION 67 | DATE 12 FEB 1987 | | EST 1019 | LATITUDE 43°05.9'N | LONGITUDE 68°29.9'W | DEPTH 205 | | |
|------------|---------------|---------------|---------------------|-------------|------------------------|----------------------------|--|--------------|----------|--|
| DEPTH m | PRESS dbar | TEMP °C | SALIN psu | OXY ml/l | ATN m ⁻¹ | SIGT gm/cm ³ | DYHT A 10m ² /s ² | S SPD m/s | N cph | |
| 101 | 101.9 | 5.585 | 32.925 | 6.51 | 0.08 | 25.963 | 0.214 | 1472. | 1.1 | |
| 103 | 104.0 | 5.572 | 32.920 | 6.46 | 0.07 | 25.961 | 0.219 | 1472. | 1.5 | |
| 105 | 105.8 | 5.560 | 32.921 | 6.47 | 0.08 | 25.963 | 0.222 | 1472. | 1.6 | |
| 107 | 108.0 | 5.568 | 32.923 | 6.48 | 0.07 | 25.964 | 0.227 | 1472. | 1.7 | |
| 109 | 110.1 | 5.584 | 32.927 | 6.49 | 0.07 | 25.965 | 0.231 | 1472. | 2.0 | |
| 111 | 112.0 | 5.658 | 32.948 | 6.46 | 0.08 | 25.973 | 0.235 | 1473. | 2.2 | |
| 113 | 114.0 | 5.684 | 32.950 | 6.47 | 0.08 | 25.972 | 0.239 | 1473. | 2.4 | |
| 115 | 115.9 | 5.715 | 32.961 | 6.48 | 0.08 | 25.976 | 0.243 | 1473. | 2.5 | |
| 117 | 118.1 | 5.846 | 32.993 | 6.45 | 0.08 | 25.986 | 0.247 | 1474. | 2.5 | |
| 119 | 119.8 | 5.885 | 32.998 | 6.44 | 0.08 | 25.985 | 0.251 | 1474. | 2.5 | |
| 121 | 122.0 | 5.940 | 33.014 | 6.42 | 0.08 | 25.991 | 0.255 | 1474. | 3.0 | |
| 123 | 123.9 | 5.960 | 33.020 | 6.40 | 0.08 | 25.994 | 0.259 | 1474. | 3.3 | |
| 125 | 126.0 | 5.985 | 33.030 | 6.38 | 0.08 | 25.998 | 0.263 | 1474. | 3.5 | |
| 127 | 128.2 | 6.031 | 33.047 | 6.36 | 0.08 | 26.006 | 0.268 | 1474. | 3.7 | |
| 129 | 130.0 | 6.190 | 33.105 | 6.29 | 0.09 | 26.032 | 0.271 | 1475. | 3.6 | |
| 131 | 132.3 | 6.277 | 33.126 | 6.25 | 0.09 | 26.038 | 0.276 | 1476. | 3.8 | |
| 133 | 133.9 | 6.316 | 33.140 | 6.21 | 0.09 | 26.044 | 0.279 | 1476. | 4.1 | |
| 135 | 136.0 | 6.364 | 33.153 | 6.17 | 0.09 | 26.047 | 0.283 | 1476. | 4.2 | |
| 137 | 138.1 | 6.371 | 33.154 | 6.16 | 0.09 | 26.047 | 0.287 | 1476. | 4.4 | |
| 139 | 139.9 | 6.514 | 33.211 | 6.10 | 0.09 | 26.074 | 0.291 | 1477. | 5.2 | |
| 141 | 142.2 | 6.699 | 33.271 | 6.03 | 0.11 | 26.097 | 0.295 | 1478. | 5.8 | |
| 143 | 143.9 | 6.799 | 33.301 | 5.97 | 0.12 | 26.108 | 0.299 | 1478. | 6.0 | |
| 145 | 146.1 | 6.983 | 33.362 | 5.90 | 0.16 | 26.131 | 0.303 | 1479. | 6.1 | |
| 147 | 148.0 | 7.378 | 33.510 | 5.75 | 0.30 | 26.193 | 0.306 | 1481. | 5.6 | |
| 149 | 149.9 | 7.594 | 33.570 | 5.65 | 0.35 | 26.210 | 0.310 | 1482. | 5.1 | |
| 151 | 152.2 | 7.609 | 33.578 | 5.58 | 0.35 | 26.214 | 0.314 | 1482. | 4.5 | |
| 152 | 153.8 | 7.615 | 33.585 | 5.53 | 0.36 | 26.219 | 0.317 | 1482. | 3.4 | |
| 155 | 156.2 | 7.614 | 33.586 | 5.52 | 0.36 | 26.220 | 0.321 | 1482. | 2.0 | |
| 157 | 157.9 | 7.613 | 33.586 | 5.51 | 0.36 | 26.219 | 0.324 | 1482. | 1.4 | |
| 159 | 159.9 | 7.614 | 33.586 | 5.51 | 0.36 | 26.220 | 0.328 | 1482. | 1.2 | |
| 161 | 162.0 | 7.616 | 33.586 | 5.52 | 0.36 | 26.219 | 0.332 | 1482. | 1.6 | |
| 163 | 164.1 | 7.621 | 33.592 | 5.52 | 0.37 | 26.224 | 0.336 | 1482. | 2.0 | |
| 165 | 165.9 | 7.620 | 33.590 | 5.51 | 0.36 | 26.222 | 0.339 | 1482. | 2.3 | |
| 167 | 168.0 | 7.616 | 33.592 | 5.50 | 0.36 | 26.224 | 0.342 | 1482. | 2.5 | |
| 169 | 169.9 | 7.617 | 33.609 | 5.50 | 0.36 | 26.237 | 0.346 | 1482. | 2.7 | |
| 171 | 172.1 | 7.620 | 33.614 | 5.48 | 0.35 | 26.241 | 0.350 | 1482. | 2.8 | |
| 173 | 174.1 | 7.620 | 33.621 | 5.47 | 0.35 | 26.247 | 0.353 | 1482. | 3.0 | |
| 174 | 175.7 | 7.621 | 33.623 | 5.45 | 0.36 | 26.247 | 0.356 | 1482. | 3.2 | |
| 177 | 178.3 | 7.626 | 33.631 | 5.43 | 0.36 | 26.253 | 0.361 | 1482. | 3.9 | |
| 178 | 179.8 | 7.636 | 33.644 | 5.41 | 0.38 | 26.262 | 0.364 | 1482. | 4.6 | |
| 181 | 182.1 | 7.650 | 33.660 | 5.36 | 0.40 | 26.272 | 0.368 | 1482. | 5.0 | |
| 182 | 184.0 | 7.663 | 33.680 | 5.04 | 0.44 | 26.286 | 0.371 | 1483. | 5.2 | |
| 185 | 186.1 | 7.709 | 33.751 | 5.03 | 0.53 | 26.336 | 0.375 | 1483. | 5.4 | |
| 186 | 188.0 | 7.721 | 33.772 | 5.00 | 0.60 | 26.350 | 0.378 | 1483. | 5.3 | |
| 188 | 189.9 | 7.727 | 33.781 | 4.98 | 0.63 | 26.357 | 0.381 | 1483. | 5.0 | |
| 190 | 191.3 | 7.731 | 33.789 | 4.97 | 0.65 | 26.363 | 0.383 | 1483. | 4.4 | |
| 190 | 192.0 | 7.731 | 33.791 | 4.98 | 0.65 | 26.364 | 0.385 | 1483. | 3.1 | |
| 191 | 193.0 | 7.731 | 33.792 | 4.99 | 0.64 | 26.365 | 0.386 | 1483. | 2.5 | |
| 192 | 193.9 | 7.731 | 33.796 | 5.01 | 0.63 | 26.368 | 0.388 | 1483. | 2.0 | |
| 193 | 195.1 | 7.730 | 33.796 | 5.03 | 0.62 | 26.368 | 0.390 | 1483. | 1.7 | |

| SHIP OC | CRUISE 181 | STATION 67 | DATE 12 FEB 1987 | EST 1019 | LATITUDE 43°05.9'N | LONGITUDE 68°29.9'W | DEPTH 205 | | |
|------------|---------------|---------------|---------------------|-------------|------------------------|----------------------------|--|--------------|----------|
| DEPTH m | PRESS dbar | TEMP °C | SALIN psu | OXY ml/l | ATN m ⁻¹ | SIGT gm/cm ³ | DYHT A 10m ² /s ² | S SPD m/s | N cph |
| 194 | 196.0 | 7.730 | 33.796 | 5.04 | 0.62 | 26.368 | 0.391 | 1483. | 1.8 |
| 195 | 197.1 | 7.730 | 33.796 | 5.05 | 0.63 | 26.368 | 0.393 | 1483. | 1.8 |
| 196 | 198.0 | 7.732 | 33.798 | 5.06 | 0.64 | 26.369 | 0.395 | 1483. | 1.8 |
| 197 | 199.0 | 7.732 | 33.799 | 5.07 | 0.64 | 26.370 | 0.396 | 1483. | 1.8 |
| 198 | 199.8 | 7.734 | 33.805 | 5.07 | 0.65 | 26.375 | 0.398 | 1483. | 1.8 |

| SHIP OC | CRUISE 181 | STATION 68 | DATE 12 FEB 1987 | EST 1143 | LATITUDE 43°12.4'N | LONGITUDE 68°20.1'W | DEPTH 191 | | |
|------------|---------------|---------------|---------------------|-------------|------------------------|----------------------------|--|--------------|----------|
| DEPTH m | PRESS dbar | TEMP °C | SALIN psu | OXY ml/l | ATN m ⁻¹ | SIGT gm/cm ³ | DYHT A 10m ² /s ² | S SPD m/s | N cph |
| 2 | 2.5 | 4.612 | 32.692 | 7.45 | 0.10 | 25.888 | 0.000 | 1466. | -0.8 |
| 4 | 3.9 | 4.613 | 32.691 | 7.47 | 0.10 | 25.887 | 0.003 | 1466. | -0.8 |
| 6 | 6.0 | 4.612 | 32.691 | 7.44 | 0.10 | 25.888 | 0.007 | 1466. | -0.8 |
| 8 | 8.0 | 4.612 | 32.691 | 7.44 | 0.10 | 25.887 | 0.012 | 1466. | -0.8 |
| 10 | 10.1 | 4.611 | 32.690 | 7.44 | 0.10 | 25.887 | 0.016 | 1466. | -0.8 |
| 12 | 11.9 | 4.603 | 32.687 | 7.44 | 0.10 | 25.885 | 0.020 | 1466. | -0.7 |
| 14 | 14.1 | 4.604 | 32.688 | 7.44 | 0.10 | 25.885 | 0.024 | 1466. | -0.6 |
| 16 | 16.0 | 4.602 | 32.687 | 7.45 | 0.10 | 25.885 | 0.028 | 1466. | 0.8 |
| 18 | 18.0 | 4.603 | 32.687 | 7.46 | 0.10 | 25.885 | 0.033 | 1466. | 1.3 |
| 20 | 20.0 | 4.604 | 32.688 | 7.45 | 0.10 | 25.885 | 0.037 | 1466. | 1.6 |
| 22 | 22.0 | 4.609 | 32.689 | 7.46 | 0.10 | 25.886 | 0.041 | 1467. | 1.7 |
| 24 | 23.9 | 4.633 | 32.701 | 7.45 | 0.10 | 25.893 | 0.045 | 1467. | 2.0 |
| 26 | 26.1 | 4.667 | 32.711 | 7.44 | 0.10 | 25.897 | 0.050 | 1467. | 2.4 |
| 28 | 27.8 | 4.665 | 32.710 | 7.44 | 0.10 | 25.897 | 0.053 | 1467. | 2.6 |
| 30 | 30.0 | 4.653 | 32.708 | 7.43 | 0.10 | 25.896 | 0.058 | 1467. | 2.8 |
| 32 | 32.0 | 4.696 | 32.726 | 7.42 | 0.10 | 25.906 | 0.062 | 1467. | 2.8 |
| 34 | 34.0 | 4.762 | 32.752 | 7.39 | 0.09 | 25.919 | 0.066 | 1467. | 2.8 |
| 36 | 36.1 | 4.790 | 32.757 | 7.37 | 0.09 | 25.921 | 0.071 | 1468. | 2.7 |
| 37 | 37.8 | 4.813 | 32.768 | 7.36 | 0.09 | 25.927 | 0.074 | 1468. | 2.5 |
| 40 | 40.3 | 4.837 | 32.773 | 7.32 | 0.09 | 25.928 | 0.079 | 1468. | 1.9 |
| 42 | 41.9 | 4.841 | 32.774 | 7.32 | 0.09 | 25.929 | 0.083 | 1468. | 1.3 |
| 44 | 44.0 | 4.848 | 32.776 | 7.31 | 0.09 | 25.929 | 0.087 | 1468. | 0.9 |
| 46 | 45.9 | 4.853 | 32.778 | 7.30 | 0.09 | 25.930 | 0.091 | 1468. | 1.3 |
| 48 | 48.2 | 4.846 | 32.775 | 7.30 | 0.09 | 25.929 | 0.096 | 1468. | 1.5 |
| 49 | 49.9 | 4.839 | 32.772 | 7.29 | 0.09 | 25.927 | 0.099 | 1468. | 1.7 |
| 52 | 52.2 | 4.843 | 32.773 | 7.30 | 0.09 | 25.928 | 0.104 | 1468. | 2.0 |
| 53 | 53.9 | 4.916 | 32.803 | 7.28 | 0.09 | 25.943 | 0.107 | 1468. | 2.2 |
| 56 | 56.1 | 4.942 | 32.805 | 7.27 | 0.09 | 25.942 | 0.112 | 1469. | 2.3 |
| 57 | 57.9 | 4.947 | 32.807 | 7.26 | 0.09 | 25.943 | 0.116 | 1469. | 2.3 |
| 60 | 60.2 | 4.988 | 32.820 | 7.26 | 0.08 | 25.949 | 0.120 | 1469. | 2.1 |
| 61 | 61.9 | 5.009 | 32.824 | 7.25 | 0.08 | 25.949 | 0.124 | 1469. | 1.6 |
| 63 | 64.0 | 5.029 | 32.829 | 7.24 | 0.08 | 25.951 | 0.128 | 1469. | 1.6 |
| 66 | 66.1 | 5.053 | 32.837 | 7.23 | 0.08 | 25.955 | 0.133 | 1469. | 1.4 |
| 67 | 68.0 | 5.066 | 32.837 | 7.20 | 0.08 | 25.954 | 0.136 | 1469. | 1.1 |
| 70 | 70.3 | 5.068 | 32.837 | 7.20 | 0.08 | 25.954 | 0.141 | 1469. | 1.0 |
| 71 | 71.9 | 5.069 | 32.837 | 7.22 | 0.08 | 25.953 | 0.144 | 1469. | 0.9 |
| 74 | 74.2 | 5.078 | 32.840 | 7.22 | 0.08 | 25.954 | 0.149 | 1470. | 1.1 |
| 75 | 75.8 | 5.090 | 32.843 | 7.18 | 0.08 | 25.956 | 0.152 | 1470. | 1.4 |
| 77 | 78.1 | 5.100 | 32.845 | 7.13 | 0.08 | 25.956 | 0.157 | 1470. | 2.0 |
| 79 | 79.9 | 5.110 | 32.848 | 7.10 | 0.08 | 25.957 | 0.161 | 1470. | 3.7 |
| 81 | 82.0 | 5.137 | 32.857 | 7.06 | 0.08 | 25.961 | 0.165 | 1470. | 5.5 |
| 83 | 84.1 | 5.179 | 32.866 | 7.02 | 0.08 | 25.963 | 0.169 | 1470. | 6.4 |
| 85 | 86.2 | 5.264 | 32.899 | 6.96 | 0.08 | 25.980 | 0.174 | 1471. | 6.9 |
| 87 | 87.8 | 5.769 | 33.077 | 6.74 | 0.07 | 26.062 | 0.177 | 1473. | 7.1 |
| 89 | 90.0 | 6.641 | 33.328 | 6.39 | 0.08 | 26.149 | 0.181 | 1477. | 7.1 |
| 91 | 92.1 | 7.001 | 33.389 | 6.05 | 0.08 | 26.150 | 0.185 | 1478. | 6.8 |
| 93 | 93.9 | 7.076 | 33.404 | 5.75 | 0.08 | 26.152 | 0.188 | 1478. | 6.1 |
| 95 | 96.1 | 7.186 | 33.455 | 5.67 | 0.08 | 26.177 | 0.192 | 1479. | 4.9 |
| 97 | 97.8 | 7.316 | 33.487 | 5.59 | 0.08 | 26.184 | 0.195 | 1480. | 4.0 |
| 99 | 100.2 | 7.425 | 33.529 | 5.54 | 0.08 | 26.201 | 0.200 | 1480. | 4.0 |

| SHIP OC | CRUISE 181 | STATION 68 | DATE 12 FEB 1987 | | EST 1143 | LATITUDE 43°12.4'N | LONGITUDE 68°20.1'W | DEPTH 191 | | |
|---------|------------|------------|------------------|----------|---------------------|-------------------------|---|-----------|-------|--|
| DEPTH m | PRESS dbar | TEMP °C | SALIN psu | OXY ml/l | ATN m ⁻¹ | SIGT gm/cm ³ | DYHT A 10m ² /s ² | S SPD m/s | N cph | |
| 101 | 101.8 | 7.464 | 33.543 | 5.53 | 0.08 | 26.207 | 0.203 | 1480. | 3.8 | |
| 103 | 104.0 | 7.495 | 33.559 | 5.52 | 0.08 | 26.215 | 0.207 | 1480. | 3.7 | |
| 105 | 105.8 | 7.534 | 33.573 | 5.50 | 0.08 | 26.221 | 0.210 | 1481. | 3.8 | |
| 107 | 108.1 | 7.573 | 33.591 | 5.49 | 0.08 | 26.229 | 0.214 | 1481. | 3.9 | |
| 109 | 110.1 | 7.606 | 33.602 | 5.48 | 0.09 | 26.234 | 0.218 | 1481. | 4.0 | |
| 111 | 111.9 | 7.687 | 33.641 | 5.45 | 0.09 | 26.252 | 0.221 | 1481. | 4.1 | |
| 113 | 114.0 | 7.750 | 33.672 | 5.40 | 0.10 | 26.268 | 0.225 | 1482. | 4.3 | |
| 115 | 116.0 | 7.802 | 33.699 | 5.36 | 0.11 | 26.282 | 0.228 | 1482. | 4.5 | |
| 117 | 118.1 | 7.812 | 33.708 | 5.33 | 0.11 | 26.287 | 0.232 | 1482. | 4.4 | |
| 119 | 119.9 | 7.832 | 33.720 | 5.31 | 0.12 | 26.293 | 0.235 | 1482. | 4.2 | |
| 121 | 122.0 | 7.879 | 33.757 | 5.28 | 0.17 | 26.316 | 0.239 | 1482. | 4.0 | |
| 123 | 123.7 | 7.917 | 33.782 | 5.08 | 0.22 | 26.330 | 0.241 | 1483. | 3.9 | |
| 125 | 126.0 | 7.943 | 33.794 | 4.90 | 0.26 | 26.335 | 0.245 | 1483. | 3.9 | |
| 127 | 127.9 | 7.949 | 33.798 | 4.90 | 0.28 | 26.338 | 0.249 | 1483. | 3.7 | |
| 129 | 130.0 | 7.953 | 33.811 | 4.90 | 0.32 | 26.347 | 0.252 | 1483. | 3.5 | |
| 131 | 132.1 | 7.946 | 33.821 | 4.90 | 0.32 | 26.356 | 0.256 | 1483. | 3.5 | |
| 133 | 134.0 | 7.938 | 33.830 | 4.91 | 0.32 | 26.365 | 0.259 | 1483. | 3.7 | |
| 135 | 136.2 | 7.929 | 33.841 | 4.91 | 0.32 | 26.374 | 0.263 | 1483. | 3.8 | |
| 137 | 138.0 | 7.923 | 33.851 | 4.92 | 0.32 | 26.383 | 0.265 | 1483. | 3.9 | |
| 139 | 140.0 | 7.911 | 33.856 | 4.92 | 0.31 | 26.389 | 0.269 | 1483. | 3.9 | |
| 141 | 142.1 | 7.884 | 33.871 | 4.93 | 0.31 | 26.405 | 0.272 | 1483. | 4.0 | |
| 143 | 143.9 | 7.880 | 33.880 | 4.95 | 0.31 | 26.412 | 0.275 | 1483. | 4.2 | |
| 145 | 146.0 | 7.877 | 33.891 | 4.95 | 0.32 | 26.422 | 0.279 | 1483. | 4.4 | |
| 147 | 148.2 | 7.858 | 33.901 | 4.95 | 0.35 | 26.432 | 0.282 | 1483. | 4.4 | |
| 149 | 149.8 | 7.840 | 33.920 | 4.94 | 0.36 | 26.449 | 0.285 | 1483. | 4.4 | |
| 151 | 152.3 | 7.829 | 33.942 | 4.94 | 0.37 | 26.469 | 0.289 | 1483. | 4.5 | |
| 153 | 153.9 | 7.831 | 33.951 | 4.93 | 0.37 | 26.475 | 0.291 | 1483. | 4.4 | |
| 155 | 156.1 | 7.833 | 33.961 | 4.92 | 0.39 | 26.482 | 0.295 | 1483. | 4.1 | |
| 157 | 157.8 | 7.845 | 33.987 | 4.91 | 0.45 | 26.501 | 0.297 | 1483. | 4.0 | |
| 159 | 160.1 | 7.857 | 34.002 | 4.90 | 0.48 | 26.511 | 0.301 | 1483. | 4.1 | |
| 161 | 161.9 | 7.859 | 34.003 | 4.89 | 0.49 | 26.512 | 0.304 | 1483. | 4.3 | |
| 163 | 164.1 | 7.868 | 34.010 | 4.88 | 0.50 | 26.516 | 0.307 | 1483. | 4.3 | |
| 165 | 166.0 | 7.895 | 34.043 | 4.87 | 0.52 | 26.538 | 0.310 | 1484. | 4.2 | |
| 167 | 168.0 | 7.923 | 34.082 | 4.85 | 0.55 | 26.564 | 0.313 | 1484. | 4.1 | |
| 169 | 169.9 | 7.934 | 34.093 | 4.83 | 0.59 | 26.571 | 0.316 | 1484. | 3.9 | |
| 171 | 172.2 | 7.939 | 34.098 | 4.80 | 0.61 | 26.575 | 0.319 | 1484. | 3.5 | |
| 172 | 173.8 | 7.944 | 34.103 | 4.81 | 0.63 | 26.578 | 0.322 | 1484. | 2.8 | |
| 174 | 175.8 | 7.949 | 34.110 | 4.81 | 0.64 | 26.583 | 0.324 | 1484. | 2.1 | |
| 176 | 177.9 | 7.951 | 34.113 | 4.81 | 0.66 | 26.584 | 0.328 | 1484. | 1.9 | |
| 178 | 179.9 | 7.952 | 34.113 | 4.81 | 0.66 | 26.585 | 0.331 | 1484. | 1.6 | |
| 180 | 181.3 | 7.952 | 34.114 | 4.82 | 0.64 | 26.585 | 0.333 | 1484. | 1.4 | |
| 181 | 182.1 | 7.953 | 34.114 | 4.82 | 0.64 | 26.585 | 0.334 | 1484. | 1.0 | |
| 181 | 183.0 | 7.953 | 34.114 | 4.83 | 0.65 | 26.585 | 0.335 | 1484. | 0.9 | |
| 183 | 184.1 | 7.953 | 34.114 | 4.84 | 0.66 | 26.585 | 0.337 | 1484. | 0.9 | |
| 183 | 184.9 | 7.953 | 34.115 | 4.84 | 0.66 | 26.586 | 0.338 | 1484. | 0.9 | |
| 184 | 186.0 | 7.954 | 34.116 | 4.83 | 0.67 | 26.587 | 0.339 | 1484. | 0.9 | |
| 185 | 186.6 | 7.954 | 34.116 | 4.85 | 0.69 | 26.587 | 0.340 | 1484. | 0.9 | |

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| SHIP OC | CRUISE 181 | STATION 69 | DATE 12 FEB 1987 | | EST 1312 | LATITUDE 43°18.5'N | LONGITUDE 68°10.3'W | DEPTH 206 | | |
|---------|------------|------------|------------------|----------|---------------------|-------------------------|---|-----------|-------|--|
| DEPTH m | PRESS dbar | TEMP °C | SALIN psu | OXY ml/l | ATN m ⁻¹ | SIGT gm/cm ³ | DYHT A 10m ² /s ² | S SPD m/s | N cph | |
| 3 | 2.8 | 3.740 | 32.289 | 7.14 | 0.12 | 25.655 | 0.000 | 1462. | -0.8 | |
| 4 | 3.8 | 3.739 | 32.286 | 7.11 | 0.11 | 25.653 | 0.002 | 1462. | -0.8 | |
| 6 | 6.0 | 3.737 | 32.286 | 7.11 | 0.11 | 25.653 | 0.007 | 1462. | -0.8 | |
| 8 | 8.1 | 3.737 | 32.286 | 7.10 | 0.11 | 25.653 | 0.012 | 1462. | -0.8 | |
| 10 | 10.1 | 3.740 | 32.285 | 7.13 | 0.11 | 25.652 | 0.017 | 1462. | -0.8 | |
| 12 | 11.9 | 3.741 | 32.285 | 7.14 | 0.11 | 25.652 | 0.021 | 1462. | -0.6 | |
| 14 | 13.9 | 3.742 | 32.285 | 7.14 | 0.11 | 25.652 | 0.026 | 1462. | 0.5 | |
| 16 | 15.7 | 3.742 | 32.284 | 7.16 | 0.12 | 25.651 | 0.030 | 1462. | 0.9 | |
| 18 | 17.9 | 3.742 | 32.284 | 7.17 | 0.11 | 25.651 | 0.035 | 1462. | 1.2 | |
| 20 | 19.9 | 3.742 | 32.284 | 7.16 | 0.11 | 25.651 | 0.040 | 1462. | 1.3 | |
| 22 | 22.2 | 3.755 | 32.292 | 7.17 | 0.11 | 25.656 | 0.045 | 1462. | 1.3 | |
| 24 | 24.0 | 3.758 | 32.294 | 7.19 | 0.11 | 25.657 | 0.049 | 1463. | 1.4 | |
| 26 | 25.9 | 3.763 | 32.297 | 7.20 | 0.11 | 25.659 | 0.054 | 1463. | 1.6 | |
| 28 | 28.3 | 3.760 | 32.294 | 7.20 | 0.11 | 25.658 | 0.059 | 1463. | 2.3 | |
| 30 | 29.9 | 3.761 | 32.296 | 7.19 | 0.11 | 25.658 | 0.063 | 1463. | 2.8 | |
| 32 | 32.1 | 3.769 | 32.300 | 7.17 | 0.11 | 25.661 | 0.068 | 1463. | 3.5 | |
| 34 | 33.9 | 3.787 | 32.311 | 7.14 | 0.11 | 25.668 | 0.072 | 1463. | 4.1 | |
| 36 | 36.1 | 3.865 | 32.350 | 7.10 | 0.11 | 25.692 | 0.077 | 1463. | 4.6 | |
| 38 | 38.2 | 3.917 | 32.369 | 7.11 | 0.11 | 25.702 | 0.082 | 1464. | 4.8 | |
| 40 | 39.9 | 3.992 | 32.402 | 7.11 | 0.11 | 25.721 | 0.086 | 1464. | 4.8 | |
| 42 | 42.0 | 4.124 | 32.449 | 7.08 | 0.11 | 25.745 | 0.091 | 1465. | 4.6 | |
| 44 | 44.0 | 4.183 | 32.465 | 7.08 | 0.10 | 25.752 | 0.095 | 1465. | 4.2 | |
| 46 | 46.0 | 4.259 | 32.491 | 7.05 | 0.10 | 25.765 | 0.100 | 1465. | 3.9 | |
| 48 | 48.2 | 4.299 | 32.502 | 7.02 | 0.10 | 25.770 | 0.105 | 1465. | 3.5 | |
| 49 | 49.8 | 4.310 | 32.504 | 7.01 | 0.10 | 25.770 | 0.108 | 1466. | 3.2 | |
| 52 | 52.1 | 4.365 | 32.522 | 6.99 | 0.10 | 25.779 | 0.113 | 1466. | 3.2 | |
| 54 | 54.0 | 4.418 | 32.537 | 6.96 | 0.10 | 25.785 | 0.118 | 1466. | 3.3 | |
| 55 | 55.9 | 4.483 | 32.557 | 6.94 | 0.10 | 25.794 | 0.122 | 1466. | 3.6 | |
| 58 | 58.2 | 4.529 | 32.571 | 6.93 | 0.10 | 25.801 | 0.127 | 1467. | 3.8 | |
| 60 | 60.0 | 4.562 | 32.581 | 6.91 | 0.10 | 25.805 | 0.131 | 1467. | 3.9 | |
| 62 | 62.0 | 4.636 | 32.611 | 6.88 | 0.10 | 25.822 | 0.135 | 1467. | 4.0 | |
| 63 | 64.0 | 4.723 | 32.643 | 6.85 | 0.10 | 25.837 | 0.139 | 1468. | 4.1 | |
| 65 | 65.9 | 4.753 | 32.654 | 6.83 | 0.10 | 25.842 | 0.143 | 1468. | 4.1 | |
| 67 | 68.0 | 4.811 | 32.678 | 6.81 | 0.09 | 25.856 | 0.148 | 1468. | 4.2 | |
| 70 | 70.2 | 4.860 | 32.698 | 6.78 | 0.09 | 25.866 | 0.153 | 1468. | 4.8 | |
| 71 | 71.9 | 4.897 | 32.714 | 6.76 | 0.09 | 25.875 | 0.156 | 1469. | 5.3 | |
| 74 | 74.1 | 4.942 | 32.732 | 6.73 | 0.09 | 25.884 | 0.161 | 1469. | 6.1 | |
| 75 | 76.1 | 5.036 | 32.771 | 6.67 | 0.08 | 25.904 | 0.165 | 1469. | 7.1 | |
| 77 | 78.0 | 5.462 | 32.911 | 6.50 | 0.08 | 25.967 | 0.169 | 1471. | 7.8 | |
| 79 | 80.0 | 5.748 | 32.982 | 6.38 | 0.08 | 25.989 | 0.173 | 1472. | 8.0 | |
| 81 | 81.9 | 6.122 | 33.108 | 6.21 | 0.08 | 26.043 | 0.177 | 1474. | 8.0 | |
| 83 | 84.1 | 6.881 | 33.346 | 5.92 | 0.09 | 26.132 | 0.181 | 1477. | 7.5 | |
| 85 | 85.7 | 7.128 | 33.409 | 5.78 | 0.09 | 26.148 | 0.184 | 1479. | 6.8 | |
| 88 | 88.2 | 7.303 | 33.465 | 5.67 | 0.08 | 26.168 | 0.189 | 1479. | 6.1 | |
| 89 | 89.9 | 7.335 | 33.475 | 5.61 | 0.07 | 26.171 | 0.192 | 1480. | 5.0 | |
| 91 | 92.0 | 7.365 | 33.495 | 5.61 | 0.08 | 26.183 | 0.196 | 1480. | 3.8 | |
| 93 | 94.3 | 7.426 | 33.520 | 5.59 | 0.09 | 26.194 | 0.200 | 1480. | 3.7 | |
| 95 | 95.9 | 7.450 | 33.532 | 5.58 | 0.09 | 26.200 | 0.203 | 1480. | 3.6 | |
| 97 | 98.1 | 7.485 | 33.544 | 5.57 | 0.09 | 26.205 | 0.207 | 1480. | 3.6 | |
| 99 | 99.9 | 7.504 | 33.550 | 5.54 | 0.09 | 26.207 | 0.210 | 1480. | 3.5 | |

| SHIP OC | CRUISE 181 | STATION 69 | DATE 12 FEB 1987 | | EST 1312 | LATITUDE 43°18.5'N | LONGITUDE 68°10.3'W | DEPTH 206 | | |
|------------|---------------|---------------|---------------------|-------------|------------------------|----------------------------|--|--------------|----------|--|
| DEPTH m | PRESS dbar | TEMP °C | SALIN psu | OXY ml/l | ATN m ⁻¹ | SIGT gm/cm ³ | DYHT A 10m ² /s ² | S SPD m/s | N cph | |
| 101 | 102.0 | 7.574 | 33.588 | 5.50 | 0.08 | 26.227 | 0.214 | 1481. | 3.5 | |
| 103 | 104.3 | 7.601 | 33.601 | 5.46 | 0.08 | 26.233 | 0.218 | 1481. | 3.8 | |
| 105 | 106.2 | 7.619 | 33.610 | 5.44 | 0.08 | 26.238 | 0.222 | 1481. | 4.0 | |
| 107 | 107.7 | 7.645 | 33.624 | 5.30 | 0.08 | 26.245 | 0.224 | 1481. | 4.1 | |
| 109 | 110.0 | 7.686 | 33.645 | 5.39 | 0.08 | 26.255 | 0.228 | 1481. | 4.1 | |
| 111 | 112.2 | 7.768 | 33.689 | 5.31 | 0.09 | 26.279 | 0.232 | 1482. | 4.1 | |
| 113 | 114.0 | 7.802 | 33.708 | 4.99 | 0.09 | 26.289 | 0.235 | 1482. | 4.1 | |
| 115 | 115.8 | 7.813 | 33.717 | 4.97 | 0.09 | 26.294 | 0.238 | 1482. | 3.9 | |
| 117 | 118.1 | 7.842 | 33.739 | 4.97 | 0.09 | 26.307 | 0.242 | 1482. | 3.7 | |
| 119 | 120.0 | 7.858 | 33.748 | 4.97 | 0.09 | 26.311 | 0.246 | 1482. | 3.3 | |
| 121 | 121.9 | 7.871 | 33.756 | 4.97 | 0.09 | 26.316 | 0.249 | 1482. | 3.2 | |
| 123 | 124.2 | 7.895 | 33.774 | 4.98 | 0.09 | 26.327 | 0.253 | 1483. | 3.1 | |
| 125 | 126.0 | 7.905 | 33.780 | 4.98 | 0.09 | 26.330 | 0.256 | 1483. | 3.1 | |
| 127 | 128.0 | 7.913 | 33.783 | 5.00 | 0.11 | 26.331 | 0.259 | 1483. | 3.0 | |
| 129 | 130.2 | 7.950 | 33.803 | 5.00 | 0.19 | 26.341 | 0.263 | 1483. | 3.0 | |
| 131 | 131.8 | 7.971 | 33.816 | 4.98 | 0.25 | 26.349 | 0.266 | 1483. | 3.0 | |
| 133 | 133.8 | 7.977 | 33.823 | 4.96 | 0.29 | 26.353 | 0.269 | 1483. | 3.1 | |
| 135 | 136.2 | 7.907 | 33.815 | 4.97 | 0.31 | 26.357 | 0.273 | 1483. | 3.1 | |
| 137 | 138.1 | 7.816 | 33.809 | 5.00 | 0.32 | 26.365 | 0.276 | 1483. | 3.1 | |
| 139 | 140.1 | 7.789 | 33.811 | 5.00 | 0.32 | 26.371 | 0.280 | 1482. | 3.0 | |
| 141 | 142.0 | 7.794 | 33.819 | 5.00 | 0.32 | 26.377 | 0.283 | 1483. | 3.1 | |
| 143 | 144.1 | 7.807 | 33.827 | 4.99 | 0.33 | 26.381 | 0.286 | 1483. | 3.0 | |
| 145 | 146.3 | 7.843 | 33.845 | 4.98 | 0.34 | 26.390 | 0.290 | 1483. | 2.9 | |
| 147 | 147.8 | 7.863 | 33.854 | 4.97 | 0.33 | 26.394 | 0.293 | 1483. | 3.0 | |
| 149 | 150.0 | 7.881 | 33.863 | 4.96 | 0.32 | 26.399 | 0.296 | 1483. | 3.2 | |
| 151 | 152.0 | 7.881 | 33.866 | 4.95 | 0.31 | 26.401 | 0.299 | 1483. | 3.3 | |
| 153 | 154.0 | 7.849 | 33.868 | 4.97 | 0.27 | 26.407 | 0.303 | 1483. | 3.3 | |
| 155 | 156.0 | 7.769 | 33.872 | 4.99 | 0.33 | 26.422 | 0.306 | 1483. | 3.4 | |
| 157 | 158.0 | 7.777 | 33.883 | 4.99 | 0.34 | 26.429 | 0.309 | 1483. | 3.4 | |
| 159 | 160.1 | 7.793 | 33.894 | 4.99 | 0.33 | 26.436 | 0.313 | 1483. | 3.3 | |
| 161 | 162.1 | 7.791 | 33.901 | 4.98 | 0.36 | 26.442 | 0.316 | 1483. | 3.0 | |
| 162 | 163.8 | 7.795 | 33.908 | 4.98 | 0.37 | 26.446 | 0.318 | 1483. | 2.6 | |
| 165 | 166.1 | 7.807 | 33.918 | 4.97 | 0.37 | 26.453 | 0.322 | 1483. | 2.3 | |
| 167 | 168.0 | 7.812 | 33.920 | 4.96 | 0.36 | 26.454 | 0.325 | 1483. | 2.2 | |
| 168 | 169.8 | 7.820 | 33.922 | 4.95 | 0.34 | 26.454 | 0.328 | 1483. | 2.2 | |
| 171 | 172.0 | 7.822 | 33.925 | 4.94 | 0.34 | 26.456 | 0.332 | 1483. | 2.5 | |
| 172 | 173.7 | 7.827 | 33.928 | 4.95 | 0.34 | 26.458 | 0.334 | 1483. | 2.8 | |
| 175 | 176.2 | 7.840 | 33.940 | 4.94 | 0.33 | 26.466 | 0.338 | 1483. | 3.3 | |
| 176 | 177.6 | 7.845 | 33.948 | 4.93 | 0.33 | 26.471 | 0.341 | 1483. | 3.9 | |
| 179 | 180.3 | 7.860 | 33.968 | 4.91 | 0.34 | 26.484 | 0.345 | 1484. | 4.6 | |
| 180 | 181.9 | 7.869 | 33.983 | 4.90 | 0.36 | 26.495 | 0.347 | 1484. | 4.9 | |
| 183 | 184.1 | 7.887 | 34.006 | 4.89 | 0.37 | 26.510 | 0.351 | 1484. | 5.1 | |
| 184 | 186.0 | 7.911 | 34.045 | 4.87 | 0.46 | 26.537 | 0.354 | 1484. | 5.2 | |
| 186 | 187.9 | 7.937 | 34.088 | 4.85 | 0.58 | 26.567 | 0.356 | 1484. | 5.2 | |
| 189 | 190.3 | 7.949 | 34.105 | 4.82 | 0.67 | 26.579 | 0.360 | 1484. | 4.9 | |
| 190 | 191.2 | 7.950 | 34.106 | 4.81 | 0.69 | 26.579 | 0.361 | 1484. | 4.5 | |
| 190 | 192.1 | 7.951 | 34.109 | 4.81 | 0.75 | 26.582 | 0.363 | 1484. | 3.5 | |
| 191 | 193.1 | 7.951 | 34.110 | 4.81 | 0.77 | 26.583 | 0.364 | 1484. | 2.1 | |
| 192 | 194.0 | 7.951 | 34.111 | 4.80 | 0.77 | 26.583 | 0.365 | 1484. | 1.2 | |
| 193 | 194.8 | 7.951 | 34.110 | 4.80 | 0.76 | 26.583 | 0.367 | 1484. | 0.9 | |

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| SHIP OC | CRUISE 181 | STATION 69 | DATE 12 FEB 1987 | | EST 1312 | LATITUDE 43°18.5'N | LONGITUDE 68°10.3'W | DEPTH 206 | | |
|------------|---------------|---------------|---------------------|-------------|------------------------|----------------------------|--|--------------|----------|--|
| DEPTH m | PRESS dbar | TEMP °C | SALIN psu | OXY ml/l | ATN m ⁻¹ | SIGT gm/cm ³ | DYHT A 10m ² /s ² | S SPD m/s | N cph | |
| 194 | 196.1 | 7.952 | 34.110 | 4.80 | 0.78 | 26.582 | 0.368 | 1484. | 0.4 | |
| 195 | 196.8 | 7.952 | 34.110 | 4.80 | 0.79 | 26.583 | 0.370 | 1484. | -0.1 | |
| 196 | 198.1 | 7.952 | 34.110 | 4.81 | 0.80 | 26.583 | 0.372 | 1484. | -0.1 | |
| 197 | 198.9 | 7.952 | 34.110 | 4.81 | 0.80 | 26.583 | 0.373 | 1484. | -0.1 | |
| 198 | 200.0 | 7.952 | 34.110 | 4.82 | 0.82 | 26.583 | 0.374 | 1484. | -0.1 | |
| 199 | 200.6 | 7.952 | 34.110 | 4.83 | 0.83 | 26.583 | 0.375 | 1484. | -0.1 | |

| SHIP OC | CRUISE 181 | STATION 70 | DATE 12 FEB 1987 | EST 1454 | LATITUDE 43°24.5'N | LONGITUDE 68°01.2'W | DEPTH 242 | | | | | | |
|---------|------------|------------|------------------|----------|---------------------|-------------------------|---|-----------|-------|--|--|--|--|
| DEPTH m | PRESS dbar | TEMP °C | SALIN psu | OXY ml/l | ATN m ⁻¹ | SIGT gm/cm ³ | DYHT A 10m ² /s ² | S SPD m/s | N cph | | | | |
| 3 | 2.8 | 3.665 | 32.162 | 6.31 | 0.11 | 25.561 | 0.000 | 1462. | -0.3 | | | | |
| 4 | 4.0 | 3.670 | 32.164 | 6.32 | 0.11 | 25.562 | 0.003 | 1462. | -0.3 | | | | |
| 6 | 6.0 | 3.676 | 32.163 | 6.32 | 0.11 | 25.561 | 0.008 | 1462. | -0.3 | | | | |
| 8 | 8.2 | 3.677 | 32.163 | 6.34 | 0.11 | 25.561 | 0.013 | 1462. | -0.3 | | | | |
| 10 | 10.1 | 3.678 | 32.163 | 6.34 | 0.11 | 25.561 | 0.018 | 1462. | -0.3 | | | | |
| 12 | 11.9 | 3.678 | 32.163 | 6.35 | 0.11 | 25.560 | 0.022 | 1462. | 0.0 | | | | |
| 14 | 13.9 | 3.678 | 32.163 | 6.35 | 0.11 | 25.561 | 0.027 | 1462. | 0.6 | | | | |
| 16 | 16.2 | 3.678 | 32.163 | 6.37 | 0.11 | 25.561 | 0.032 | 1462. | 0.7 | | | | |
| 18 | 17.8 | 3.678 | 32.164 | 6.36 | 0.11 | 25.561 | 0.036 | 1462. | 0.7 | | | | |
| 20 | 20.1 | 3.679 | 32.164 | 6.37 | 0.11 | 25.562 | 0.042 | 1462. | 0.8 | | | | |
| 22 | 22.1 | 3.681 | 32.166 | 6.38 | 0.11 | 25.563 | 0.047 | 1462. | 0.8 | | | | |
| 24 | 24.0 | 3.681 | 32.166 | 6.38 | 0.11 | 25.563 | 0.051 | 1462. | 0.8 | | | | |
| 26 | 25.9 | 3.681 | 32.166 | 6.39 | 0.11 | 25.562 | 0.056 | 1462. | 0.7 | | | | |
| 28 | 27.7 | 3.681 | 32.166 | 6.39 | 0.11 | 25.563 | 0.060 | 1462. | 0.6 | | | | |
| 30 | 30.0 | 3.683 | 32.167 | 6.40 | 0.11 | 25.564 | 0.066 | 1462. | 0.6 | | | | |
| 32 | 32.0 | 3.683 | 32.168 | 6.41 | 0.11 | 25.564 | 0.070 | 1462. | 0.6 | | | | |
| 34 | 34.0 | 3.684 | 32.168 | 6.41 | 0.11 | 25.564 | 0.075 | 1462. | 0.7 | | | | |
| 36 | 36.1 | 3.683 | 32.167 | 6.42 | 0.11 | 25.563 | 0.080 | 1462. | 0.8 | | | | |
| 38 | 37.8 | 3.684 | 32.168 | 6.41 | 0.11 | 25.564 | 0.085 | 1462. | 1.1 | | | | |
| 40 | 40.0 | 3.685 | 32.169 | 6.42 | 0.11 | 25.565 | 0.090 | 1462. | 1.2 | | | | |
| 42 | 41.9 | 3.686 | 32.170 | 6.42 | 0.11 | 25.565 | 0.094 | 1462. | 1.4 | | | | |
| 44 | 44.0 | 3.690 | 32.173 | 6.43 | 0.11 | 25.568 | 0.099 | 1462. | 1.5 | | | | |
| 46 | 46.1 | 3.696 | 32.178 | 6.43 | 0.11 | 25.571 | 0.105 | 1462. | 1.5 | | | | |
| 47 | 47.9 | 3.697 | 32.178 | 6.43 | 0.11 | 25.571 | 0.109 | 1462. | 1.5 | | | | |
| 49 | 49.9 | 3.699 | 32.179 | 6.43 | 0.11 | 25.572 | 0.114 | 1463. | 1.5 | | | | |
| 52 | 52.2 | 3.705 | 32.182 | 6.44 | 0.11 | 25.573 | 0.119 | 1463. | 1.4 | | | | |
| 53 | 53.8 | 3.709 | 32.185 | 6.43 | 0.11 | 25.575 | 0.123 | 1463. | 1.4 | | | | |
| 56 | 56.0 | 3.716 | 32.188 | 6.43 | 0.11 | 25.577 | 0.128 | 1463. | 1.2 | | | | |
| 58 | 58.0 | 3.721 | 32.190 | 6.43 | 0.11 | 25.578 | 0.133 | 1463. | 1.4 | | | | |
| 60 | 60.0 | 3.724 | 32.191 | 6.44 | 0.11 | 25.578 | 0.138 | 1463. | 1.9 | | | | |
| 61 | 61.9 | 3.732 | 32.194 | 6.44 | 0.11 | 25.580 | 0.142 | 1463. | 2.3 | | | | |
| 64 | 64.4 | 3.712 | 32.184 | 6.46 | 0.11 | 25.574 | 0.149 | 1463. | 2.7 | | | | |
| 65 | 65.9 | 3.762 | 32.207 | 6.44 | 0.11 | 25.588 | 0.152 | 1463. | 3.2 | | | | |
| 68 | 68.2 | 3.834 | 32.232 | 6.41 | 0.11 | 25.601 | 0.158 | 1463. | 3.7 | | | | |
| 69 | 69.9 | 3.849 | 32.236 | 6.40 | 0.11 | 25.603 | 0.162 | 1464. | 4.0 | | | | |
| 72 | 72.1 | 3.917 | 32.263 | 6.38 | 0.11 | 25.617 | 0.167 | 1464. | 4.2 | | | | |
| 73 | 74.0 | 3.980 | 32.287 | 6.35 | 0.10 | 25.630 | 0.171 | 1464. | 4.0 | | | | |
| 75 | 76.0 | 4.059 | 32.316 | 6.33 | 0.10 | 25.646 | 0.176 | 1465. | 4.1 | | | | |
| 78 | 78.2 | 4.102 | 32.332 | 6.32 | 0.10 | 25.654 | 0.181 | 1465. | 4.4 | | | | |
| 79 | 79.8 | 4.128 | 32.340 | 6.31 | 0.10 | 25.658 | 0.185 | 1465. | 4.7 | | | | |
| 81 | 81.9 | 4.142 | 32.347 | 6.30 | 0.10 | 25.662 | 0.190 | 1465. | 4.9 | | | | |
| 83 | 84.1 | 4.243 | 32.394 | 6.27 | 0.10 | 25.690 | 0.195 | 1466. | 5.1 | | | | |
| 85 | 86.1 | 4.370 | 32.447 | 6.23 | 0.09 | 25.719 | 0.199 | 1466. | 5.5 | | | | |
| 87 | 87.9 | 4.448 | 32.481 | 6.20 | 0.09 | 25.737 | 0.204 | 1467. | 6.0 | | | | |
| 89 | 90.1 | 4.500 | 32.501 | 6.19 | 0.09 | 25.748 | 0.208 | 1467. | 6.6 | | | | |
| 91 | 91.9 | 4.575 | 32.534 | 6.15 | 0.08 | 25.767 | 0.212 | 1467. | 7.3 | | | | |
| 93 | 93.9 | 4.748 | 32.608 | 6.09 | 0.08 | 25.807 | 0.217 | 1468. | 7.7 | | | | |
| 95 | 96.1 | 5.014 | 32.703 | 6.00 | 0.07 | 25.853 | 0.222 | 1469. | 8.0 | | | | |
| 97 | 97.8 | 5.275 | 32.807 | 5.90 | 0.07 | 25.906 | 0.225 | 1471. | 7.9 | | | | |
| 99 | 100.2 | 5.760 | 32.982 | 5.74 | 0.07 | 25.988 | 0.230 | 1473. | 7.5 | | | | |

| SHIP OC | CRUISE 181 | STATION 70 | DATE 12 FEB 1987 | EST 1454 | LATITUDE 43°24.5'N | LONGITUDE 68°01.2'W | DEPTH 242 | | | | | | |
|---------|------------|------------|------------------|----------|---------------------|-------------------------|---|-----------|-------|--|--|--|--|
| DEPTH m | PRESS dbar | TEMP °C | SALIN psu | OXY ml/l | ATN m ⁻¹ | SIGT gm/cm ³ | DYHT A 10m ² /s ² | S SPD m/s | N cph | | | | |
| 101 | 102.0 | 5.854 | 33.015 | 5.69 | 0.07 | 26.002 | 0.234 | 1473. | 6.9 | | | | |
| 103 | 103.8 | 5.948 | 33.049 | 5.64 | 0.07 | 26.018 | 0.237 | 1474. | 6.2 | | | | |
| 105 | 106.2 | 6.068 | 33.091 | 5.60 | 0.07 | 26.036 | 0.242 | 1474. | 5.5 | | | | |
| 107 | 108.0 | 6.116 | 33.103 | 5.58 | 0.07 | 26.040 | 0.246 | 1475. | 5.0 | | | | |
| 109 | 109.9 | 6.202 | 33.134 | 5.54 | 0.07 | 26.053 | 0.249 | 1475. | 5.1 | | | | |
| 111 | 112.3 | 6.439 | 33.209 | 5.45 | 0.08 | 26.083 | 0.254 | 1476. | 5.3 | | | | |
| 113 | 113.8 | 6.615 | 33.259 | 5.38 | 0.08 | 26.099 | 0.257 | 1477. | 5.5 | | | | |
| 115 | 116.1 | 6.839 | 33.322 | 5.31 | 0.07 | 26.119 | 0.261 | 1478. | 5.8 | | | | |
| 117 | 118.1 | 6.961 | 33.363 | 5.26 | 0.08 | 26.135 | 0.265 | 1478. | 5.9 | | | | |
| 119 | 119.8 | 7.078 | 33.419 | 5.21 | 0.08 | 26.163 | 0.268 | 1479. | 5.8 | | | | |
| 121 | 122.1 | 7.269 | 33.485 | 5.13 | 0.09 | 26.189 | 0.273 | 1480. | 5.6 | | | | |
| 123 | 124.1 | 7.355 | 33.532 | 5.09 | 0.12 | 26.214 | 0.276 | 1480. | 5.5 | | | | |
| 125 | 125.9 | 7.431 | 33.576 | 5.03 | 0.14 | 26.237 | 0.279 | 1481. | 5.2 | | | | |
| 127 | 127.9 | 7.476 | 33.587 | 4.99 | 0.14 | 26.240 | 0.283 | 1481. | 4.9 | | | | |
| 129 | 129.8 | 7.517 | 33.607 | 4.97 | 0.15 | 26.250 | 0.287 | 1481. | 4.6 | | | | |
| 131 | 132.1 | 7.609 | 33.649 | 4.94 | 0.17 | 26.269 | 0.291 | 1481. | 4.3 | | | | |
| 133 | 133.9 | 7.651 | 33.667 | 4.92 | 0.18 | 26.278 | 0.294 | 1482. | 4.1 | | | | |
| 135 | 136.2 | 7.686 | 33.698 | 4.90 | 0.22 | 26.297 | 0.298 | 1482. | 4.1 | | | | |
| 137 | 137.7 | 7.684 | 33.699 | 4.87 | 0.23 | 26.299 | 0.300 | 1482. | 3.9 | | | | |
| 139 | 139.9 | 7.674 | 33.707 | 4.86 | 0.24 | 26.306 | 0.304 | 1482. | 3.6 | | | | |
| 141 | 141.9 | 7.675 | 33.719 | 4.86 | 0.25 | 26.315 | 0.308 | 1482. | 3.4 | | | | |
| 143 | 144.1 | 7.674 | 33.733 | 4.86 | 0.26 | 26.326 | 0.311 | 1482. | 3.2 | | | | |
| 145 | 146.2 | 7.678 | 33.738 | 4.85 | 0.26 | 26.330 | 0.315 | 1482. | 3.2 | | | | |
| 147 | 147.8 | 7.683 | 33.744 | 4.83 | 0.27 | 26.334 | 0.318 | 1482. | 3.2 | | | | |
| 149 | 150.0 | 7.687 | 33.750 | 4.83 | 0.27 | 26.338 | 0.321 | 1482. | 3.2 | | | | |
| 151 | 152.0 | 7.691 | 33.761 | 4.84 | 0.27 | 26.346 | 0.325 | 1482. | 3.2 | | | | |
| 153 | 154.0 | 7.697 | 33.772 | 4.83 | 0.27 | 26.354 | 0.328 | 1482. | 3.3 | | | | |
| 155 | 156.0 | 7.712 | 33.786 | 4.83 | 0.28 | 26.363 | 0.332 | 1482. | 3.2 | | | | |
| 156 | 157.8 | 7.738 | 33.800 | 4.82 | 0.27 | 26.370 | 0.335 | 1483. | 3.1 | | | | |
| 158 | 159.8 | 7.752 | 33.809 | 4.81 | 0.26 | 26.375 | 0.338 | 1483. | 3.0 | | | | |
| 161 | 162.1 | 7.739 | 33.812 | 4.76 | 0.26 | 26.379 | 0.342 | 1483. | 2.9 | | | | |
| 163 | 164.0 | 7.722 | 33.814 | 4.68 | 0.27 | 26.383 | 0.345 | 1483. | 2.7 | | | | |
| 164 | 165.8 | 7.709 | 33.815 | 4.79 | 0.28 | 26.386 | 0.348 | 1483. | 2.7 | | | | |
| 167 | 168.3 | 7.712 | 33.827 | 4.79 | 0.30 | 26.395 | 0.352 | 1483. | 2.6 | | | | |
| 168 | 169.8 | 7.723 | 33.831 | 4.76 | 0.29 | 26.397 | 0.354 | 1483. | 2.4 | | | | |
| 171 | 172.0 | 7.759 | 33.845 | 4.74 | 0.28 | 26.402 | 0.358 | 1483. | 2.4 | | | | |
| 173 | 174.0 | 7.802 | 33.856 | 4.72 | 0.27 | 26.405 | 0.361 | 1483. | 2.5 | | | | |
| 174 | 175.9 | 7.818 | 33.860 | 4.60 | 0.27 | 26.406 | 0.364 | 1483. | 2.6 | | | | |
| 177 | 178.0 | 7.822 | 33.864 | 4.36 | 0.27 | 26.408 | 0.368 | 1483. | 2.9 | | | | |
| 178 | 180.0 | 7.839 | 33.877 | 4.45 | 0.27 | 26.416 | 0.371 | 1483. | 3.0 | | | | |
| 181 | 182.0 | 7.853 | 33.888 | 4.52 | 0.27 | 26.423 | 0.374 | 1484. | 3.1 | | | | |
| 182 | 183.9 | 7.861 | 33.900 | 4.34 | 0.28 | 26.430 | 0.378 | 1484. | 3.1 | | | | |
| 185 | 186.2 | 7.862 | 33.917 | 4.35 | 0.29 | 26.444 | 0.381 | 1484. | 3.0 | | | | |
| 186 | 187.9 | 7.860 | 33.918 | 4.34 | 0.30 | 26.445 | 0.384 | 1484. | 2.8 | | | | |
| 189 | 190.2 | 7.848 | 33.918 | 4.36 | 0.31 | 26.447 | 0.388 | 1484. | 2.7 | | | | |
| 190 | 191.9 | 7.832 | 33.917 | 4.40 | 0.32 | 26.448 | 0.390 | 1484. | 2.5 | | | | |
| 192 | 194.0 | 7.823 | 33.919 | 4.41 | 0.31 | 26.451 | 0.394 | 1484. | 2.5 | | | | |
| 194 | 196.1 | 7.821 | 33.928 | 4.41 | 0.30 | 26.458 | 0.397 | 1484. | 2.8 | | | | |
| 196 | 197.8 | 7.826 | 33.935 | 4.41 | 0.30 | 26.464 | 0.400 | 1484. | 3.0 | | | | |
| 198 | 200.1 | 7.830 | 33.940 | 4.42 | 0.30 | 26.466 | 0.403 | 1484. | 3.4 | | | | |

| SHIP OC | CRUISE 181 | STATION 70 | DATE 12 FEB 1987 | EST 1454 | LATITUDE 43°24.5'N | LONGITUDE 68°01.2'W | DEPTH 242 | | |
|------------|---------------|---------------|---------------------|-------------|------------------------|----------------------------|--|--------------|----------|
| DEPTH m | PRESS dbar | TEMP °C | SALIN psu | OXY ml/l | ATN m ⁻¹ | SIGT gm/cm ³ | DYHT A 10m ² /s ² | S SPD m/s | N cph |
| 200 | 201.9 | 7.839 | 33.951 | 4.42 | 0.30 | 26.474 | 0.406 | 1484. | 3.6 |
| 202 | 204.2 | 7.866 | 33.971 | 4.41 | 0.31 | 26.486 | 0.410 | 1484. | 3.8 |
| 204 | 205.8 | 7.876 | 33.981 | 4.40 | 0.33 | 26.492 | 0.412 | 1484. | 4.0 |
| 206 | 208.1 | 7.890 | 34.007 | 4.39 | 0.44 | 26.510 | 0.416 | 1484. | 3.9 |
| 208 | 209.7 | 7.897 | 34.018 | 4.37 | 0.49 | 26.518 | 0.418 | 1484. | 3.7 |
| 210 | 212.2 | 7.911 | 34.039 | 4.36 | 0.62 | 26.532 | 0.422 | 1484. | 3.4 |
| 212 | 213.9 | 7.915 | 34.045 | 4.35 | 0.66 | 26.536 | 0.425 | 1484. | 3.0 |
| 214 | 216.1 | 7.917 | 34.048 | 4.35 | 0.69 | 26.539 | 0.428 | 1485. | 2.4 |
| 216 | 218.1 | 7.917 | 34.050 | 4.34 | 0.75 | 26.540 | 0.431 | 1485. | 1.9 |
| 218 | 220.0 | 7.918 | 34.051 | 4.35 | 0.77 | 26.541 | 0.434 | 1485. | 1.3 |
| 220 | 222.1 | 7.918 | 34.052 | 4.35 | 0.81 | 26.542 | 0.437 | 1485. | 1.0 |
| 222 | 223.8 | 7.918 | 34.052 | 4.35 | 0.80 | 26.542 | 0.440 | 1485. | 0.8 |
| 224 | 226.0 | 7.919 | 34.052 | 4.35 | 0.81 | 26.542 | 0.443 | 1485. | 0.5 |
| 225 | 227.3 | 7.919 | 34.052 | 4.35 | 0.82 | 26.541 | 0.445 | 1485. | 0.2 |
| 226 | 228.1 | 7.919 | 34.052 | 4.35 | 0.82 | 26.541 | 0.446 | 1485. | -0.3 |
| 227 | 228.9 | 7.919 | 34.052 | 4.35 | 0.80 | 26.541 | 0.448 | 1485. | -0.2 |
| 228 | 230.1 | 7.919 | 34.052 | 4.35 | 0.82 | 26.542 | 0.449 | 1485. | -0.2 |
| 229 | 231.0 | 7.919 | 34.052 | 4.36 | 0.82 | 26.541 | 0.451 | 1485. | -0.2 |
| 230 | 231.8 | 7.919 | 34.052 | 4.35 | 0.82 | 26.542 | 0.452 | 1485. | -0.2 |
| 231 | 233.0 | 7.920 | 34.052 | 4.36 | 0.84 | 26.541 | 0.454 | 1485. | -0.1 |
| 232 | 234.1 | 7.920 | 34.052 | 4.36 | 0.83 | 26.541 | 0.456 | 1485. | -0.1 |
| 233 | 235.0 | 7.920 | 34.052 | 4.36 | 0.83 | 26.541 | 0.457 | 1485. | -0.1 |
| 234 | 236.0 | 7.920 | 34.052 | 4.36 | 0.85 | 26.541 | 0.458 | 1485. | -0.1 |
| 235 | 236.9 | 7.920 | 34.052 | 4.36 | 0.88 | 26.541 | 0.460 | 1485. | -0.1 |

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| SHIP OC | CRUISE 181 | STATION 71 | DATE 12 FEB 1987 | EST 1720 | LATITUDE 43°29.4'N | LONGITUDE 67°52.5'W | DEPTH 286 | | |
|------------|---------------|---------------|---------------------|-------------|------------------------|----------------------------|--|--------------|----------|
| DEPTH m | PRESS dbar | TEMP °C | SALIN psu | OXY ml/l | ATN m ⁻¹ | SIGT gm/cm ³ | DYHT A 10m ² /s ² | S SPD m/s | N cph |
| 2 | 2.4 | 3.663 | 32.101 | 7.02 | 0.06 | 25.513 | 0.000 | 1462. | 0.4 |
| 4 | 4.0 | 3.666 | 32.101 | 7.03 | 0.06 | 25.513 | 0.004 | 1462. | 0.4 |
| 6 | 6.2 | 3.659 | 32.102 | 7.03 | 0.06 | 25.514 | 0.009 | 1462. | 0.4 |
| 8 | 8.2 | 3.661 | 32.102 | 7.04 | 0.06 | 25.514 | 0.014 | 1462. | 0.4 |
| 10 | 10.0 | 3.654 | 32.102 | 7.04 | 0.06 | 25.515 | 0.019 | 1462. | 0.4 |
| 12 | 11.7 | 3.657 | 32.102 | 7.04 | 0.06 | 25.514 | 0.023 | 1462. | 0.4 |
| 14 | 14.2 | 3.667 | 32.102 | 7.04 | 0.06 | 25.513 | 0.029 | 1462. | 0.2 |
| 16 | 16.0 | 3.662 | 32.103 | 7.04 | 0.06 | 25.514 | 0.034 | 1462. | -0.1 |
| 18 | 17.7 | 3.657 | 32.102 | 7.03 | 0.06 | 25.514 | 0.038 | 1462. | -0.4 |
| 20 | 20.4 | 3.658 | 32.102 | 7.03 | 0.06 | 25.514 | 0.044 | 1462. | -0.4 |
| 22 | 22.0 | 3.656 | 32.102 | 7.03 | 0.06 | 25.514 | 0.048 | 1462. | -0.5 |
| 24 | 24.1 | 3.657 | 32.101 | 7.05 | 0.06 | 25.514 | 0.053 | 1462. | -0.7 |
| 26 | 26.0 | 3.659 | 32.101 | 7.04 | 0.06 | 25.513 | 0.058 | 1462. | -0.7 |
| 28 | 27.9 | 3.666 | 32.102 | 7.03 | 0.06 | 25.513 | 0.063 | 1462. | -0.6 |
| 30 | 30.0 | 3.673 | 32.101 | 7.03 | 0.06 | 25.512 | 0.068 | 1462. | -0.5 |
| 32 | 31.9 | 3.674 | 32.101 | 7.02 | 0.06 | 25.512 | 0.073 | 1462. | -0.4 |
| 34 | 34.2 | 3.678 | 32.103 | 7.02 | 0.06 | 25.512 | 0.078 | 1462. | 0.3 |
| 36 | 35.8 | 3.681 | 32.103 | 7.01 | 0.06 | 25.513 | 0.082 | 1462. | 0.4 |
| 38 | 38.2 | 3.679 | 32.103 | 7.01 | 0.06 | 25.512 | 0.088 | 1462. | 0.6 |
| 40 | 40.0 | 3.677 | 32.102 | 6.99 | 0.06 | 25.512 | 0.092 | 1462. | 0.6 |
| 42 | 42.1 | 3.682 | 32.105 | 7.02 | 0.06 | 25.514 | 0.098 | 1462. | 0.6 |
| 44 | 43.9 | 3.688 | 32.104 | 7.00 | 0.06 | 25.513 | 0.102 | 1462. | 0.6 |
| 46 | 46.1 | 3.691 | 32.106 | 7.00 | 0.05 | 25.514 | 0.108 | 1462. | 0.7 |
| 48 | 47.9 | 3.698 | 32.107 | 7.00 | 0.05 | 25.515 | 0.112 | 1462. | 0.7 |
| 50 | 50.1 | 3.694 | 32.106 | 7.01 | 0.05 | 25.514 | 0.117 | 1462. | 0.7 |
| 52 | 52.2 | 3.694 | 32.107 | 7.00 | 0.06 | 25.514 | 0.123 | 1462. | 0.6 |
| 54 | 54.0 | 3.713 | 32.109 | 7.07 | 0.05 | 25.515 | 0.127 | 1463. | 0.9 |
| 55 | 55.8 | 3.716 | 32.110 | 7.05 | 0.05 | 25.515 | 0.131 | 1463. | 1.4 |
| 57 | 57.9 | 3.726 | 32.112 | 7.06 | 0.05 | 25.516 | 0.137 | 1463. | 1.4 |
| 60 | 60.1 | 3.745 | 32.113 | 7.06 | 0.05 | 25.515 | 0.142 | 1463. | 2.6 |
| 61 | 61.8 | 3.789 | 32.126 | 7.04 | 0.06 | 25.521 | 0.146 | 1463. | 4.4 |
| 64 | 64.1 | 3.837 | 32.139 | 7.03 | 0.05 | 25.527 | 0.152 | 1463. | 5.7 |
| 66 | 66.0 | 3.943 | 32.144 | 6.99 | 0.05 | 25.520 | 0.157 | 1464. | 6.6 |
| 67 | 67.9 | 4.355 | 32.255 | 6.84 | 0.05 | 25.568 | 0.161 | 1466. | 7.3 |
| 69 | 70.0 | 4.979 | 32.450 | 6.58 | 0.04 | 25.657 | 0.166 | 1469. | 7.8 |
| 71 | 71.9 | 5.362 | 32.553 | 6.45 | 0.03 | 25.695 | 0.170 | 1470. | 8.1 |
| 74 | 74.1 | 5.534 | 32.608 | 6.36 | 0.03 | 25.719 | 0.175 | 1471. | 8.4 |
| 75 | 76.0 | 5.899 | 32.723 | 6.22 | 0.03 | 25.766 | 0.180 | 1473. | 8.1 |
| 77 | 77.9 | 6.094 | 32.793 | 5.90 | 0.03 | 25.797 | 0.184 | 1474. | 7.6 |
| 79 | 80.1 | 6.342 | 32.889 | 5.64 | 0.03 | 25.842 | 0.189 | 1475. | 7.3 |
| 81 | 82.0 | 6.597 | 33.013 | 5.56 | 0.04 | 25.907 | 0.193 | 1476. | 6.8 |
| 83 | 84.1 | 6.718 | 33.057 | 5.51 | 0.05 | 25.926 | 0.197 | 1476. | 6.1 |
| 85 | 85.9 | 6.742 | 33.068 | 5.48 | 0.05 | 25.932 | 0.201 | 1477. | 5.4 |
| 87 | 87.9 | 6.766 | 33.083 | 5.45 | 0.05 | 25.940 | 0.205 | 1477. | 4.6 |
| 89 | 90.2 | 6.804 | 33.099 | 5.42 | 0.05 | 25.948 | 0.210 | 1477. | 4.0 |
| 91 | 92.0 | 6.828 | 33.109 | 5.39 | 0.05 | 25.953 | 0.213 | 1477. | 4.2 |
| 93 | 93.8 | 6.882 | 33.136 | 5.34 | 0.05 | 25.967 | 0.217 | 1477. | 4.4 |
| 95 | 96.1 | 6.926 | 33.160 | 5.30 | 0.05 | 25.980 | 0.222 | 1478. | 4.6 |
| 97 | 98.2 | 7.013 | 33.201 | 5.27 | 0.06 | 26.000 | 0.226 | 1478. | 4.6 |
| 99 | 100.1 | 7.054 | 33.230 | 5.26 | 0.06 | 26.017 | 0.230 | 1478. | 4.5 |

| SHIP OC | CRUISE 181 | STATION 71 | DATE 12 FEB 1987 | | | EST 1720 | LATITUDE 43°29.4'N | LONGITUDE 67°52.5'W | DEPTH 286 | |
|---------|------------|------------|------------------|----------|---------------------|-------------------------|---|---------------------|-----------|--|
| DEPTH m | PRESS dbar | TEMP °C | SALIN psu | OXY ml/l | ATN m ⁻¹ | SIGT gm/cm ³ | DYHT A 10m ² /s ² | S SPD m/s | N cph | |
| 101 | 101.9 | 7.095 | 33.252 | 5.25 | 0.06 | 26.030 | 0.233 | 1479. | 4.4 | |
| 103 | 103.9 | 7.113 | 33.264 | 5.25 | 0.06 | 26.036 | 0.237 | 1479. | 4.2 | |
| 105 | 106.0 | 7.136 | 33.277 | 5.25 | 0.06 | 26.043 | 0.242 | 1479. | 4.0 | |
| 107 | 107.9 | 7.186 | 33.303 | 5.23 | 0.07 | 26.057 | 0.245 | 1479. | 3.9 | |
| 109 | 110.1 | 7.218 | 33.323 | 5.22 | 0.06 | 26.068 | 0.250 | 1479. | 3.8 | |
| 111 | 111.6 | 7.249 | 33.336 | 5.21 | 0.06 | 26.074 | 0.253 | 1479. | 3.8 | |
| 113 | 114.0 | 7.281 | 33.350 | 5.20 | 0.06 | 26.081 | 0.257 | 1480. | 3.7 | |
| 115 | 115.9 | 7.334 | 33.378 | 5.18 | 0.06 | 26.095 | 0.261 | 1480. | 4.1 | |
| 117 | 118.1 | 7.355 | 33.388 | 5.16 | 0.06 | 26.101 | 0.265 | 1480. | 4.6 | |
| 119 | 119.8 | 7.391 | 33.404 | 5.14 | 0.06 | 26.108 | 0.268 | 1480. | 5.0 | |
| 121 | 122.1 | 7.425 | 33.421 | 5.12 | 0.06 | 26.116 | 0.273 | 1480. | 5.5 | |
| 123 | 123.8 | 7.561 | 33.501 | 5.06 | 0.06 | 26.160 | 0.276 | 1481. | 5.6 | |
| 125 | 126.1 | 7.660 | 33.557 | 5.03 | 0.05 | 26.190 | 0.280 | 1481. | 5.6 | |
| 127 | 128.0 | 7.711 | 33.581 | 5.01 | 0.06 | 26.202 | 0.284 | 1482. | 5.3 | |
| 129 | 129.8 | 7.771 | 33.626 | 4.99 | 0.05 | 26.228 | 0.287 | 1482. | 5.0 | |
| 131 | 132.1 | 7.783 | 33.634 | 4.97 | 0.05 | 26.233 | 0.291 | 1482. | 4.6 | |
| 133 | 133.8 | 7.805 | 33.645 | 4.96 | 0.06 | 26.238 | 0.294 | 1482. | 4.4 | |
| 135 | 136.0 | 7.827 | 33.655 | 4.95 | 0.06 | 26.243 | 0.298 | 1482. | 4.4 | |
| 137 | 138.0 | 7.884 | 33.693 | 4.92 | 0.06 | 26.265 | 0.302 | 1483. | 4.7 | |
| 139 | 139.9 | 7.928 | 33.726 | 4.90 | 0.06 | 26.284 | 0.305 | 1483. | 5.1 | |
| 141 | 142.0 | 7.944 | 33.741 | 4.87 | 0.05 | 26.293 | 0.309 | 1483. | 5.4 | |
| 143 | 144.1 | 7.956 | 33.757 | 4.85 | 0.06 | 26.305 | 0.312 | 1483. | 5.5 | |
| 145 | 145.7 | 7.989 | 33.814 | 4.83 | 0.06 | 26.345 | 0.315 | 1483. | 5.4 | |
| 147 | 148.2 | 8.007 | 33.848 | 4.82 | 0.06 | 26.368 | 0.319 | 1484. | 5.4 | |
| 149 | 150.1 | 8.016 | 33.866 | 4.82 | 0.06 | 26.381 | 0.322 | 1484. | 5.2 | |
| 151 | 152.1 | 8.023 | 33.881 | 4.80 | 0.06 | 26.392 | 0.326 | 1484. | 4.8 | |
| 153 | 154.0 | 8.031 | 33.902 | 4.79 | 0.06 | 26.407 | 0.329 | 1484. | 4.2 | |
| 155 | 156.0 | 8.036 | 33.920 | 4.78 | 0.06 | 26.421 | 0.332 | 1484. | 3.8 | |
| 157 | 158.1 | 8.039 | 33.931 | 4.77 | 0.07 | 26.429 | 0.335 | 1484. | 3.6 | |
| 159 | 159.9 | 8.040 | 33.935 | 4.77 | 0.07 | 26.432 | 0.338 | 1484. | 3.5 | |
| 161 | 162.1 | 8.040 | 33.939 | 4.78 | 0.07 | 26.435 | 0.342 | 1484. | 3.3 | |
| 163 | 164.0 | 8.041 | 33.943 | 4.79 | 0.07 | 26.438 | 0.345 | 1484. | 3.3 | |
| 165 | 166.0 | 8.042 | 33.961 | 4.81 | 0.07 | 26.452 | 0.348 | 1484. | 3.3 | |
| 167 | 168.0 | 8.043 | 33.975 | 4.82 | 0.08 | 26.463 | 0.351 | 1484. | 3.4 | |
| 169 | 170.0 | 8.044 | 33.982 | 4.83 | 0.08 | 26.468 | 0.354 | 1484. | 3.5 | |
| 171 | 172.1 | 8.045 | 33.987 | 4.83 | 0.09 | 26.472 | 0.358 | 1484. | 3.4 | |
| 172 | 173.9 | 8.048 | 33.998 | 4.84 | 0.09 | 26.480 | 0.361 | 1484. | 3.3 | |
| 175 | 176.0 | 8.052 | 34.011 | 4.84 | 0.10 | 26.489 | 0.364 | 1484. | 3.3 | |
| 177 | 178.0 | 8.057 | 34.021 | 4.83 | 0.11 | 26.497 | 0.367 | 1484. | 3.8 | |
| 179 | 180.1 | 8.059 | 34.026 | 4.88 | 0.11 | 26.501 | 0.370 | 1484. | 4.2 | |
| 180 | 181.9 | 8.065 | 34.035 | 4.46 | 0.12 | 26.507 | 0.373 | 1485. | 4.6 | |
| 182 | 184.0 | 8.075 | 34.054 | 4.44 | 0.13 | 26.520 | 0.376 | 1485. | 4.8 | |
| 184 | 186.0 | 8.089 | 34.095 | 4.43 | 0.18 | 26.550 | 0.379 | 1485. | 4.8 | |
| 186 | 188.0 | 8.095 | 34.117 | 4.42 | 0.24 | 26.567 | 0.382 | 1485. | 4.7 | |
| 188 | 189.8 | 8.101 | 34.144 | 4.40 | 0.28 | 26.587 | 0.385 | 1485. | 4.4 | |
| 191 | 192.3 | 8.101 | 34.155 | 4.37 | 0.31 | 26.596 | 0.389 | 1485. | 3.9 | |
| 192 | 193.9 | 8.101 | 34.157 | 4.34 | 0.32 | 26.597 | 0.391 | 1485. | 3.1 | |
| 195 | 196.2 | 8.100 | 34.162 | 4.32 | 0.33 | 26.601 | 0.394 | 1485. | 2.5 | |
| 196 | 198.0 | 8.100 | 34.165 | 4.32 | 0.35 | 26.603 | 0.397 | 1485. | 2.0 | |
| 198 | 199.9 | 8.100 | 34.164 | 4.32 | 0.35 | 26.603 | 0.400 | 1485. | 1.8 | |

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| SHIP OC | CRUISE 181 | STATION 71 | DATE 12 FEB 1987 | | | EST 1720 | LATITUDE 43°29.4'N | LONGITUDE 67°52.5'W | DEPTH 286 | |
|---------|------------|------------|------------------|----------|---------------------|-------------------------|---|---------------------|-----------|--|
| DEPTH m | PRESS dbar | TEMP °C | SALIN psu | OXY ml/l | ATN m ⁻¹ | SIGT gm/cm ³ | DYHT A 10m ² /s ² | S SPD m/s | N cph | |
| 200 | 201.8 | 8.099 | 34.166 | 4.32 | 0.37 | 26.605 | 0.403 | 1485. | 1.7 | |
| 202 | 204.1 | 8.098 | 34.171 | 4.31 | 0.40 | 26.609 | 0.406 | 1485. | 1.6 | |
| 204 | 206.1 | 8.097 | 34.173 | 4.31 | 0.43 | 26.610 | 0.409 | 1485. | 1.6 | |
| 206 | 207.8 | 8.097 | 34.173 | 4.31 | 0.41 | 26.610 | 0.411 | 1485. | 1.6 | |
| 208 | 210.0 | 8.096 | 34.175 | 4.30 | 0.42 | 26.612 | 0.415 | 1485. | 1.4 | |
| 210 | 211.9 | 8.095 | 34.178 | 4.30 | 0.44 | 26.614 | 0.417 | 1485. | 1.3 | |
| 212 | 214.1 | 8.094 | 34.178 | 4.30 | 0.45 | 26.615 | 0.420 | 1485. | 1.3 | |
| 214 | 215.9 | 8.093 | 34.179 | 4.31 | 0.46 | 26.615 | 0.423 | 1485. | 1.2 | |
| 216 | 218.0 | 8.092 | 34.179 | 4.31 | 0.45 | 26.616 | 0.426 | 1485. | 1.2 | |
| 218 | 220.0 | 8.093 | 34.180 | 4.31 | 0.45 | 26.616 | 0.429 | 1485. | 1.2 | |
| 220 | 221.7 | 8.092 | 34.182 | 4.31 | 0.46 | 26.618 | 0.431 | 1485. | 1.2 | |
| 222 | 224.1 | 8.091 | 34.183 | 4.31 | 0.46 | 26.619 | 0.435 | 1485. | 1.2 | |
| 224 | 225.8 | 8.089 | 34.184 | 4.31 | 0.48 | 26.620 | 0.437 | 1486. | 1.2 | |
| 226 | 228.0 | 8.088 | 34.185 | 4.32 | 0.50 | 26.621 | 0.441 | 1486. | 1.1 | |
| 228 | 230.0 | 8.087 | 34.186 | 4.31 | 0.50 | 26.622 | 0.443 | 1486. | 1.1 | |
| 230 | 232.0 | 8.086 | 34.186 | 4.31 | 0.51 | 26.622 | 0.446 | 1486. | 1.2 | |
| 232 | 234.0 | 8.085 | 34.186 | 4.31 | 0.50 | 26.622 | 0.449 | 1486. | 1.2 | |
| 234 | 236.1 | 8.083 | 34.186 | 4.30 | 0.52 | 26.623 | 0.452 | 1486. | 1.3 | |
| 236 | 237.9 | 8.083 | 34.188 | 4.30 | 0.53 | 26.624 | 0.455 | 1486. | 1.4 | |
| 238 | 239.9 | 8.084 | 34.192 | 4.31 | 0.55 | 26.627 | 0.458 | 1486. | 1.4 | |
| 240 | 242.0 | 8.084 | 34.193 | 4.30 | 0.56 | 26.628 | 0.461 | 1486. | 1.4 | |
| 242 | 243.9 | 8.085 | 34.195 | 4.31 | 0.58 | 26.629 | 0.464 | 1486. | 1.3 | |
| 244 | 245.9 | 8.086 | 34.196 | 4.31 | 0.59 | 26.630 | 0.466 | 1486. | 1.1 | |
| 246 | 248.2 | 8.086 | 34.196 | 4.31 | 0.60 | 26.630 | 0.470 | 1486. | 0.9 | |
| 248 | 249.9 | 8.085 | 34.197 | 4.31 | 0.61 | 26.631 | 0.472 | 1486. | 0.8 | |
| 250 | 251.9 | 8.084 | 34.197 | 4.31 | 0.61 | 26.631 | 0.475 | 1486. | 0.7 | |
| 252 | 253.9 | 8.083 | 34.197 | 4.30 | 0.61 | 26.631 | 0.478 | 1486. | 0.8 | |
| 254 | 256.1 | 8.083 | 34.197 | 4.30 | 0.62 | 26.631 | 0.481 | 1486. | 0.9 | |
| 256 | 258.2 | 8.082 | 34.197 | 4.31 | 0.61 | 26.631 | 0.484 | 1486. | 0.9 | |
| 258 | 259.9 | 8.080 | 34.197 | 4.31 | 0.64 | 26.632 | 0.487 | 1486. | 1.0 | |
| 260 | 261.9 | 8.077 | 34.199 | 4.31 | 0.71 | 26.633 | 0.490 | 1486. | 1.1 | |
| 262 | 264.1 | 8.076 | 34.199 | 4.31 | 0.70 | 26.634 | 0.493 | 1486. | 1.2 | |
| 264 | 266.0 | 8.076 | 34.200 | 4.30 | 0.77 | 26.634 | 0.495 | 1486. | 1.2 | |
| 266 | 268.0 | 8.075 | 34.201 | 4.30 | 0.80 | 26.636 | 0.498 | 1486. | 1.2 | |
| 267 | 269.2 | 8.075 | 34.203 | 4.31 | 0.83 | 26.637 | 0.500 | 1486. | 1.1 | |
| 268 | 270.1 | 8.075 | 34.202 | 4.31 | 0.83 | 26.636 | 0.501 | 1486. | 1.1 | |
| 269 | 271.0 | 8.075 | 34.203 | 4.31 | 0.84 | 26.637 | 0.503 | 1486. | 0.9 | |
| 270 | 272.1 | 8.074 | 34.203 | 4.30 | 0.85 | 26.637 | 0.504 | 1486. | 0.7 | |
| 271 | 273.0 | 8.075 | 34.203 | 4.30 | 0.88 | 26.637 | 0.505 | 1486. | 0.6 | |
| 272 | 274.0 | 8.075 | 34.203 | 4.29 | 0.87 | 26.637 | 0.507 | 1486. | 0.6 | |
| 273 | 275.1 | 8.075 | 34.203 | 4.30 | 0.85 | 26.637 | 0.508 | 1486. | 0.3 | |
| 274 | 276.0 | 8.075 | 34.203 | 4.30 | 0.86 | 26.637 | 0.510 | 1486. | 0.3 | |
| 275 | 277.0 | 8.074 | 34.204 | 4.30 | 0.85 | 26.638 | 0.511 | 1486. | 0.3 | |
| 276 | 277.9 | 8.075 | 34.203 | 4.31 | 0.87 | 26.637 | 0.513 | 1486. | 0.3 | |
| 277 | 278.9 | 8.075 | 34.203 | 4.30 | 0.87 | 26.637 | 0.514 | 1486. | 0.3 | |

| SHIP OC | CRUISE 181 | STATION 72 | DATE 12 FEB 1987 | | | EST 1918 | LATITUDE 43°24.8'N | LONGITUDE 67°42.3'W | DEPTH 252 | | |
|------------|---------------|---------------|---------------------|-------------|------------------------|----------------------------|--|------------------------|--------------|--|--|
| DEPTH m | PRESS dbar | TEMP °C | SALIN psu | OXY ml/l | ATN m ⁻¹ | SIGT gm/cm ³ | DYHT A 10m ² /s ² | S SPD m/s | N cph | | |
| 3 | 2.6 | 3.238 | 31.896 | 7.19 | 0.08 | 25.387 | 0.000 | 1459. | -0.4 | | |
| 4 | 3.8 | 3.246 | 31.895 | 7.19 | 0.08 | 25.387 | 0.003 | 1459. | -0.4 | | |
| 6 | 5.9 | 3.244 | 31.896 | 7.20 | 0.08 | 25.387 | 0.009 | 1460. | -0.4 | | |
| 8 | 7.9 | 3.241 | 31.895 | 7.20 | 0.08 | 25.387 | 0.014 | 1460. | -0.4 | | |
| 10 | 10.0 | 3.243 | 31.896 | 7.20 | 0.08 | 25.387 | 0.019 | 1460. | -0.4 | | |
| 12 | 12.1 | 3.246 | 31.895 | 7.21 | 0.08 | 25.386 | 0.025 | 1460. | -0.4 | | |
| 14 | 13.9 | 3.247 | 31.896 | 7.20 | 0.08 | 25.387 | 0.029 | 1460. | -0.5 | | |
| 16 | 16.1 | 3.248 | 31.895 | 7.21 | 0.08 | 25.386 | 0.035 | 1460. | -0.5 | | |
| 18 | 18.0 | 3.250 | 31.895 | 7.20 | 0.08 | 25.386 | 0.040 | 1460. | -0.5 | | |
| 20 | 20.0 | 3.250 | 31.895 | 7.21 | 0.08 | 25.386 | 0.045 | 1460. | -0.4 | | |
| 22 | 22.0 | 3.249 | 31.895 | 7.20 | 0.08 | 25.386 | 0.050 | 1460. | -0.4 | | |
| 24 | 23.9 | 3.249 | 31.895 | 7.20 | 0.08 | 25.386 | 0.055 | 1460. | -0.2 | | |
| 26 | 26.1 | 3.249 | 31.894 | 7.19 | 0.08 | 25.385 | 0.061 | 1460. | 0.1 | | |
| 28 | 27.8 | 3.249 | 31.895 | 7.21 | 0.08 | 25.386 | 0.065 | 1460. | 0.2 | | |
| 30 | 30.0 | 3.249 | 31.895 | 7.20 | 0.08 | 25.386 | 0.071 | 1460. | 0.2 | | |
| 32 | 31.9 | 3.250 | 31.895 | 7.19 | 0.08 | 25.386 | 0.076 | 1460. | 0.2 | | |
| 34 | 34.0 | 3.248 | 31.895 | 7.19 | 0.08 | 25.386 | 0.081 | 1460. | 0.2 | | |
| 36 | 36.2 | 3.248 | 31.894 | 7.18 | 0.08 | 25.386 | 0.087 | 1460. | -0.1 | | |
| 38 | 37.8 | 3.249 | 31.895 | 7.17 | 0.08 | 25.386 | 0.091 | 1460. | -0.3 | | |
| 40 | 40.0 | 3.251 | 31.895 | 7.18 | 0.08 | 25.385 | 0.097 | 1460. | -0.3 | | |
| 42 | 42.1 | 3.252 | 31.895 | 7.18 | 0.08 | 25.386 | 0.102 | 1460. | 0.3 | | |
| 44 | 43.9 | 3.252 | 31.895 | 7.18 | 0.08 | 25.385 | 0.107 | 1460. | 0.6 | | |
| 46 | 46.2 | 3.252 | 31.895 | 7.19 | 0.08 | 25.385 | 0.112 | 1460. | 0.8 | | |
| 47 | 47.8 | 3.266 | 31.896 | 7.16 | 0.08 | 25.385 | 0.117 | 1460. | 0.9 | | |
| 50 | 50.1 | 3.284 | 31.900 | 7.17 | 0.08 | 25.387 | 0.123 | 1460. | 0.9 | | |
| 52 | 52.0 | 3.297 | 31.904 | 7.22 | 0.08 | 25.389 | 0.128 | 1461. | 1.1 | | |
| 54 | 54.0 | 3.306 | 31.905 | 7.21 | 0.08 | 25.389 | 0.133 | 1461. | 1.3 | | |
| 55 | 55.9 | 3.311 | 31.905 | 7.22 | 0.08 | 25.389 | 0.137 | 1461. | 2.1 | | |
| 58 | 58.2 | 3.320 | 31.906 | 7.21 | 0.08 | 25.389 | 0.143 | 1461. | 3.1 | | |
| 59 | 59.7 | 3.363 | 31.917 | 7.19 | 0.08 | 25.393 | 0.147 | 1461. | 4.7 | | |
| 62 | 62.1 | 3.394 | 31.923 | 7.15 | 0.07 | 25.396 | 0.154 | 1461. | 6.3 | | |
| 63 | 63.8 | 3.610 | 31.979 | 7.05 | 0.07 | 25.421 | 0.158 | 1462. | 7.4 | | |
| 66 | 66.3 | 3.932 | 32.054 | 6.91 | 0.05 | 25.450 | 0.164 | 1464. | 8.0 | | |
| 67 | 67.8 | 4.419 | 32.231 | 6.71 | 0.05 | 25.542 | 0.168 | 1466. | 8.2 | | |
| 70 | 70.2 | 4.772 | 32.374 | 6.56 | 0.04 | 25.619 | 0.174 | 1468. | 8.7 | | |
| 71 | 71.9 | 4.979 | 32.448 | 6.48 | 0.04 | 25.655 | 0.178 | 1469. | 8.7 | | |
| 73 | 74.0 | 5.060 | 32.470 | 6.43 | 0.04 | 25.663 | 0.182 | 1469. | 8.4 | | |
| 76 | 76.2 | 5.315 | 32.545 | 6.33 | 0.04 | 25.694 | 0.188 | 1470. | 7.9 | | |
| 77 | 77.9 | 5.777 | 32.729 | 6.15 | 0.04 | 25.786 | 0.191 | 1472. | 7.8 | | |
| 80 | 80.2 | 5.850 | 32.783 | 6.13 | 0.04 | 25.819 | 0.197 | 1473. | 7.8 | | |
| 81 | 82.0 | 5.936 | 32.806 | 6.12 | 0.05 | 25.827 | 0.200 | 1473. | 7.6 | | |
| 83 | 84.0 | 6.122 | 32.898 | 6.04 | 0.05 | 25.877 | 0.205 | 1474. | 6.9 | | |
| 85 | 85.8 | 6.136 | 32.962 | 6.03 | 0.05 | 25.926 | 0.209 | 1474. | 6.1 | | |
| 87 | 88.2 | 6.171 | 32.994 | 6.01 | 0.05 | 25.946 | 0.213 | 1474. | 5.9 | | |
| 89 | 89.9 | 6.226 | 32.999 | 5.99 | 0.05 | 25.944 | 0.217 | 1475. | 5.6 | | |
| 91 | 92.1 | 6.311 | 33.019 | 5.97 | 0.06 | 25.949 | 0.221 | 1475. | 5.0 | | |
| 93 | 93.8 | 6.474 | 33.070 | 5.92 | 0.07 | 25.968 | 0.225 | 1476. | 4.5 | | |
| 95 | 96.1 | 6.412 | 33.110 | 5.93 | 0.06 | 26.008 | 0.230 | 1476. | 4.4 | | |
| 97 | 97.6 | 6.315 | 33.094 | 5.97 | 0.06 | 26.007 | 0.233 | 1475. | 4.6 | | |
| 99 | 100.3 | 6.303 | 33.104 | 5.97 | 0.06 | 26.017 | 0.238 | 1475. | 4.7 | | |

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| SHIP OC | CRUISE 181 | STATION 72 | DATE 12 FEB 1987 | | | EST 1918 | LATITUDE 43°24.8'N | LONGITUDE 67°42.3'W | DEPTH 252 | | |
|------------|---------------|---------------|---------------------|-------------|------------------------|----------------------------|--|------------------------|--------------|--|--|
| DEPTH m | PRESS dbar | TEMP °C | SALIN psu | OXY ml/l | ATN m ⁻¹ | SIGT gm/cm ³ | DYHT A 10m ² /s ² | S SPD m/s | N cph | | |
| 101 | 102.2 | 6.339 | 33.116 | 5.96 | 0.06 | 26.022 | 0.242 | 1475. | 4.4 | | |
| 103 | 103.9 | 6.406 | 33.139 | 5.94 | 0.06 | 26.031 | 0.245 | 1476. | 4.4 | | |
| 105 | 106.3 | 6.594 | 33.208 | 5.89 | 0.08 | 26.062 | 0.250 | 1477. | 4.8 | | |
| 107 | 108.1 | 6.661 | 33.236 | 5.89 | 0.08 | 26.074 | 0.253 | 1477. | 4.9 | | |
| 109 | 109.9 | 6.690 | 33.246 | 5.88 | 0.09 | 26.078 | 0.257 | 1477. | 5.0 | | |
| 111 | 111.7 | 6.800 | 33.295 | 5.64 | 0.09 | 26.103 | 0.260 | 1478. | 4.8 | | |
| 113 | 114.0 | 6.893 | 33.337 | 5.83 | 0.09 | 26.123 | 0.265 | 1478. | 4.5 | | |
| 115 | 116.0 | 6.919 | 33.351 | 5.83 | 0.08 | 26.131 | 0.268 | 1478. | 4.4 | | |
| 117 | 117.9 | 6.915 | 33.366 | 5.56 | 0.08 | 26.143 | 0.272 | 1478. | 4.4 | | |
| 119 | 120.3 | 6.920 | 33.375 | 5.45 | 0.08 | 26.150 | 0.277 | 1478. | 4.4 | | |
| 121 | 122.0 | 6.949 | 33.394 | 5.42 | 0.08 | 26.161 | 0.280 | 1478. | 4.6 | | |
| 123 | 124.2 | 6.976 | 33.409 | 5.39 | 0.08 | 26.169 | 0.284 | 1479. | 4.8 | | |
| 125 | 125.9 | 7.024 | 33.453 | 5.36 | 0.08 | 26.197 | 0.287 | 1479. | 5.0 | | |
| 127 | 128.1 | 7.091 | 33.481 | 5.32 | 0.08 | 26.210 | 0.291 | 1479. | 5.1 | | |
| 129 | 129.8 | 7.141 | 33.520 | 5.29 | 0.09 | 26.234 | 0.294 | 1479. | 5.1 | | |
| 131 | 132.3 | 7.160 | 33.537 | 5.24 | 0.09 | 26.245 | 0.299 | 1480. | 5.0 | | |
| 133 | 134.0 | 7.197 | 33.570 | 5.20 | 0.10 | 26.265 | 0.302 | 1480. | 4.6 | | |
| 135 | 136.0 | 7.215 | 33.582 | 5.19 | 0.10 | 26.273 | 0.305 | 1480. | 4.3 | | |
| 137 | 138.0 | 7.249 | 33.607 | 5.19 | 0.11 | 26.288 | 0.309 | 1480. | 4.1 | | |
| 139 | 139.9 | 7.267 | 33.621 | 5.17 | 0.12 | 26.296 | 0.312 | 1480. | 3.9 | | |
| 141 | 141.9 | 7.279 | 33.628 | 5.15 | 0.13 | 26.300 | 0.315 | 1480. | 3.7 | | |
| 143 | 144.1 | 7.323 | 33.647 | 5.12 | 0.13 | 26.309 | 0.319 | 1481. | 3.6 | | |
| 145 | 146.3 | 7.397 | 33.679 | 5.09 | 0.15 | 26.324 | 0.323 | 1481. | 3.3 | | |
| 147 | 148.1 | 7.429 | 33.693 | 5.07 | 0.15 | 26.330 | 0.326 | 1481. | 3.1 | | |
| 149 | 150.1 | 7.456 | 33.704 | 5.06 | 0.16 | 26.335 | 0.329 | 1481. | 2.9 | | |
| 151 | 152.0 | 7.465 | 33.708 | 5.06 | 0.16 | 26.337 | 0.333 | 1481. | 2.5 | | |
| 153 | 154.3 | 7.484 | 33.717 | 5.04 | 0.17 | 26.341 | 0.337 | 1481. | 2.2 | | |
| 155 | 155.9 | 7.496 | 33.721 | 5.04 | 0.17 | 26.343 | 0.339 | 1482. | 2.0 | | |
| 157 | 158.1 | 7.505 | 33.726 | 5.04 | 0.17 | 26.345 | 0.343 | 1482. | 2.1 | | |
| 159 | 160.2 | 7.515 | 33.730 | 5.03 | 0.18 | 26.347 | 0.347 | 1482. | 2.4 | | |
| 160 | 161.8 | 7.524 | 33.734 | 5.02 | 0.17 | 26.349 | 0.349 | 1482. | 2.5 | | |
| 163 | 164.0 | 7.544 | 33.743 | 5.00 | 0.17 | 26.353 | 0.353 | 1482. | 2.6 | | |
| 165 | 166.0 | 7.583 | 33.761 | 4.99 | 0.18 | 26.362 | 0.356 | 1482. | 2.7 | | |
| 166 | 167.7 | 7.601 | 33.774 | 4.99 | 0.19 | 26.370 | 0.359 | 1482. | 2.9 | | |
| 169 | 170.1 | 7.607 | 33.778 | 4.98 | 0.20 | 26.371 | 0.363 | 1482. | 3.1 | | |
| 171 | 172.1 | 7.617 | 33.782 | 4.96 | 0.20 | 26.373 | 0.367 | 1482. | 3.3 | | |
| 172 | 173.8 | 7.638 | 33.796 | 4.94 | 0.20 | 26.381 | 0.369 | 1482. | 3.4 | | |
| 175 | 176.1 | 7.671 | 33.817 | 4.92 | 0.21 | 26.393 | 0.373 | 1483. | 3.5 | | |
| 177 | 178.1 | 7.689 | 33.828 | 4.90 | 0.21 | 26.399 | 0.376 | 1483. | 3.5 | | |
| 178 | 179.8 | 7.713 | 33.849 | 4.89 | 0.21 | 26.412 | 0.379 | 1483. | 3.5 | | |
| 181 | 182.1 | 7.728 | 33.863 | 4.89 | 0.22 | 26.421 | 0.383 | 1483. | 3.2 | | |
| 182 | 183.8 | 7.735 | 33.868 | 4.87 | 0.23 | 26.424 | 0.386 | 1483. | 2.9 | | |
| 185 | 186.2 | 7.742 | 33.874 | 4.85 | 0.23 | 26.428 | 0.390 | 1483. | 2.6 | | |
| 186 | 187.8 | 7.758 | 33.883 | 4.84 | 0.23 | 26.432 | 0.392 | 1483. | 2.3 | | |
| 188 | 190.1 | 7.765 | 33.887 | 4.83 | 0.23 | 26.435 | 0.396 | 1483. | 2.0 | | |
| 190 | 191.9 | 7.773 | 33.891 | 4.84 | 0.23 | 26.437 | 0.399 | 1483. | 2.1 | | |
| 192 | 194.1 | 7.778 | 33.895 | 4.84 | 0.24 | 26.439 | 0.403 | 1483. | 2.5 | | |
| 195 | 196.2 | 7.781 | 33.897 | 4.84 | 0.24 | 26.440 | 0.406 | 1483. | 2.8 | | |
| 196 | 197.8 | 7.787 | 33.900 | 4.87 | 0.24 | 26.442 | 0.408 | 1484. | 3.1 | | |
| 198 | 199.9 | 7.822 | 33.917 | 4.91 | 0.24 | 26.450 | 0.412 | 1484. | 3.4 | | |

| SHIP OC | CRUISE 181 | STATION 72 | DATE 12 FEB 1987 | EST 1918 | LATITUDE 43°24.8'N | LONGITUDE 67°42.3'W | DEPTH 252 | | |
|------------|---------------|---------------|---------------------|-------------|------------------------|----------------------------|--|--------------|----------|
| DEPTH m | PRESS dbar | TEMP °C | SALIN psu | OXY ml/l | ATN m ⁻¹ | SIGT gm/cm ³ | DYHT A 10m ² /s ² | S SPD m/s | N cph |
| 200 | 201.9 | 7.881 | 33.951 | 4.85 | 0.24 | 26.467 | 0.415 | 1484. | 3.5 |
| 202 | 204.0 | 7.890 | 33.965 | 4.53 | 0.26 | 26.477 | 0.418 | 1484. | 3.6 |
| 204 | 205.9 | 7.879 | 33.968 | 4.53 | 0.27 | 26.481 | 0.421 | 1484. | 3.6 |
| 206 | 208.0 | 7.878 | 33.979 | 4.52 | 0.27 | 26.490 | 0.425 | 1484. | 3.4 |
| 208 | 209.9 | 7.883 | 33.985 | 4.51 | 0.27 | 26.494 | 0.428 | 1484. | 3.2 |
| 210 | 212.0 | 7.892 | 33.996 | 4.49 | 0.26 | 26.502 | 0.431 | 1484. | 3.1 |
| 212 | 213.9 | 7.897 | 34.006 | 4.48 | 0.26 | 26.509 | 0.434 | 1484. | 3.1 |
| 214 | 216.0 | 7.902 | 34.013 | 4.46 | 0.26 | 26.513 | 0.437 | 1484. | 3.1 |
| 216 | 217.8 | 7.904 | 34.019 | 4.44 | 0.26 | 26.518 | 0.440 | 1484. | 3.2 |
| 218 | 220.2 | 7.916 | 34.031 | 4.42 | 0.27 | 26.526 | 0.443 | 1485. | 3.4 |
| 220 | 222.1 | 7.928 | 34.043 | 4.40 | 0.27 | 26.533 | 0.446 | 1485. | 3.8 |
| 222 | 223.8 | 7.936 | 34.054 | 4.39 | 0.28 | 26.541 | 0.449 | 1485. | 4.1 |
| 224 | 225.9 | 7.945 | 34.064 | 4.38 | 0.29 | 26.547 | 0.452 | 1485. | 4.2 |
| 226 | 227.8 | 8.009 | 34.103 | 4.34 | 0.34 | 26.568 | 0.455 | 1485. | 4.2 |
| 228 | 230.2 | 8.036 | 34.132 | 4.33 | 0.50 | 26.588 | 0.459 | 1485. | 4.1 |
| 230 | 231.8 | 8.052 | 34.147 | 4.33 | 0.58 | 26.597 | 0.461 | 1485. | 3.9 |
| 232 | 234.2 | 8.056 | 34.150 | 4.33 | 0.59 | 26.598 | 0.465 | 1485. | 3.5 |
| 233 | 235.2 | 8.059 | 34.152 | 4.33 | 0.61 | 26.599 | 0.466 | 1486. | 2.8 |
| 234 | 235.9 | 8.060 | 34.152 | 4.33 | 0.63 | 26.599 | 0.467 | 1486. | 2.0 |
| 235 | 237.0 | 8.061 | 34.153 | 4.33 | 0.63 | 26.600 | 0.469 | 1486. | 1.6 |
| 236 | 238.0 | 8.063 | 34.154 | 4.33 | 0.65 | 26.601 | 0.470 | 1486. | 1.5 |
| 237 | 238.9 | 8.066 | 34.156 | 4.33 | 0.67 | 26.602 | 0.471 | 1486. | 1.4 |
| 238 | 240.0 | 8.068 | 34.159 | 4.33 | 0.69 | 26.603 | 0.473 | 1486. | 1.4 |
| 239 | 241.0 | 8.069 | 34.159 | 4.33 | 0.69 | 26.603 | 0.475 | 1486. | 1.4 |
| 240 | 242.1 | 8.069 | 34.159 | 4.33 | 0.68 | 26.603 | 0.476 | 1486. | 1.4 |
| 241 | 243.0 | 8.069 | 34.159 | 4.31 | 0.68 | 26.604 | 0.477 | 1486. | 1.4 |
| 242 | 243.9 | 8.069 | 34.160 | 4.31 | 0.70 | 26.604 | 0.479 | 1486. | 1.4 |

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| SHIP OC | CRUISE 181 | STATION 73 | DATE 12 FEB 1987 | EST 2058 | LATITUDE 43°18.2'N | LONGITUDE 67°31.5'W | DEPTH 202 | | |
|------------|---------------|---------------|---------------------|-------------|------------------------|----------------------------|--|--------------|----------|
| DEPTH m | PRESS dbar | TEMP °C | SALIN psu | OXY ml/l | ATN m ⁻¹ | SIGT gm/cm ³ | DYHT A 10m ² /s ² | S SPD m/s | N cph |
| 2 | 2.2 | 3.156 | 31.936 | 7.26 | 0.09 | 25.427 | 0.000 | 1459. | 0.3 |
| 4 | 3.8 | 3.156 | 31.936 | 7.25 | 0.09 | 25.426 | 0.004 | 1459. | 0.3 |
| 6 | 6.0 | 3.163 | 31.936 | 7.26 | 0.09 | 25.426 | 0.010 | 1459. | 0.3 |
| 8 | 8.0 | 3.162 | 31.937 | 7.26 | 0.09 | 25.427 | 0.015 | 1459. | 0.3 |
| 10 | 10.1 | 3.157 | 31.936 | 7.27 | 0.09 | 25.427 | 0.020 | 1459. | 0.3 |
| 12 | 12.0 | 3.163 | 31.937 | 7.27 | 0.09 | 25.427 | 0.025 | 1459. | 0.4 |
| 14 | 13.9 | 3.163 | 31.937 | 7.26 | 0.09 | 25.427 | 0.030 | 1459. | 0.4 |
| 16 | 16.1 | 3.162 | 31.936 | 7.27 | 0.09 | 25.426 | 0.035 | 1459. | 0.4 |
| 18 | 18.0 | 3.166 | 31.938 | 7.27 | 0.09 | 25.427 | 0.040 | 1459. | 0.2 |
| 20 | 20.0 | 3.163 | 31.937 | 7.27 | 0.09 | 25.427 | 0.045 | 1459. | 0.7 |
| 22 | 22.0 | 3.168 | 31.938 | 7.27 | 0.09 | 25.427 | 0.050 | 1460. | 0.7 |
| 24 | 24.0 | 3.169 | 31.939 | 7.25 | 0.09 | 25.428 | 0.055 | 1460. | 0.7 |
| 26 | 26.1 | 3.193 | 31.939 | 7.25 | 0.09 | 25.426 | 0.061 | 1460. | 0.5 |
| 28 | 28.1 | 3.205 | 31.947 | 7.25 | 0.09 | 25.431 | 0.066 | 1460. | 1.5 |
| 30 | 30.0 | 3.204 | 31.943 | 7.24 | 0.09 | 25.428 | 0.071 | 1460. | 1.4 |
| 32 | 32.0 | 3.202 | 31.944 | 7.22 | 0.09 | 25.429 | 0.076 | 1460. | 1.8 |
| 34 | 34.1 | 3.220 | 31.943 | 7.21 | 0.09 | 25.427 | 0.081 | 1460. | 2.1 |
| 36 | 36.0 | 3.295 | 31.977 | 7.17 | 0.09 | 25.447 | 0.086 | 1460. | 2.4 |
| 38 | 38.1 | 3.247 | 31.954 | 7.20 | 0.09 | 25.433 | 0.091 | 1460. | 2.8 |
| 40 | 40.1 | 3.325 | 31.977 | 7.19 | 0.09 | 25.445 | 0.096 | 1461. | 2.9 |
| 42 | 42.0 | 3.443 | 31.999 | 7.14 | 0.09 | 25.452 | 0.101 | 1461. | 3.1 |
| 44 | 44.0 | 3.481 | 32.015 | 7.11 | 0.08 | 25.461 | 0.106 | 1461. | 3.2 |
| 46 | 46.0 | 3.578 | 32.036 | 7.06 | 0.08 | 25.469 | 0.111 | 1462. | 4.3 |
| 48 | 48.0 | 3.572 | 32.029 | 7.06 | 0.08 | 25.464 | 0.116 | 1462. | 5.1 |
| 50 | 50.1 | 3.724 | 32.073 | 7.06 | 0.08 | 25.485 | 0.122 | 1463. | 6.0 |
| 52 | 52.0 | 3.819 | 32.093 | 7.09 | 0.07 | 25.492 | 0.126 | 1463. | 6.9 |
| 54 | 54.0 | 4.108 | 32.209 | 6.98 | 0.06 | 25.556 | 0.131 | 1464. | 7.4 |
| 55 | 55.9 | 4.573 | 32.318 | 6.78 | 0.06 | 25.595 | 0.136 | 1466. | 7.5 |
| 57 | 57.9 | 4.756 | 32.404 | 6.70 | 0.05 | 25.644 | 0.140 | 1467. | 7.3 |
| 60 | 60.0 | 5.050 | 32.511 | 6.58 | 0.05 | 25.697 | 0.145 | 1469. | 6.8 |
| 62 | 62.1 | 5.100 | 32.531 | 6.54 | 0.05 | 25.707 | 0.150 | 1469. | 5.8 |
| 63 | 63.9 | 5.143 | 32.538 | 6.47 | 0.05 | 25.708 | 0.154 | 1469. | 5.3 |
| 65 | 65.9 | 5.205 | 32.567 | 6.08 | 0.05 | 25.724 | 0.159 | 1470. | 5.2 |
| 67 | 68.0 | 5.275 | 32.589 | 6.03 | 0.05 | 25.734 | 0.163 | 1470. | 6.6 |
| 69 | 70.0 | 5.304 | 32.587 | 5.99 | 0.05 | 25.729 | 0.168 | 1470. | 8.0 |
| 71 | 72.0 | 5.413 | 32.665 | 5.96 | 0.05 | 25.778 | 0.172 | 1471. | 8.8 |
| 73 | 74.0 | 5.948 | 32.811 | 5.79 | 0.04 | 25.829 | 0.177 | 1473. | 9.2 |
| 75 | 76.0 | 6.912 | 33.167 | 5.46 | 0.04 | 25.987 | 0.181 | 1477. | 9.1 |
| 77 | 77.9 | 7.157 | 33.288 | 5.37 | 0.04 | 26.049 | 0.185 | 1478. | 8.6 |
| 79 | 80.0 | 7.237 | 33.322 | 5.33 | 0.04 | 26.065 | 0.189 | 1479. | 7.7 |
| 81 | 82.0 | 7.261 | 33.335 | 5.31 | 0.05 | 26.072 | 0.193 | 1479. | 6.4 |
| 83 | 84.0 | 7.281 | 33.343 | 5.30 | 0.05 | 26.076 | 0.197 | 1479. | 4.8 |
| 85 | 86.0 | 7.318 | 33.358 | 5.27 | 0.05 | 26.082 | 0.200 | 1479. | 4.5 |
| 87 | 87.9 | 7.369 | 33.391 | 5.24 | 0.05 | 26.101 | 0.204 | 1480. | 4.8 |
| 89 | 90.0 | 7.398 | 33.420 | 5.22 | 0.05 | 26.120 | 0.208 | 1480. | 5.0 |
| 91 | 92.1 | 7.429 | 33.447 | 5.20 | 0.05 | 26.137 | 0.212 | 1480. | 5.0 |
| 93 | 94.1 | 7.467 | 33.479 | 5.17 | 0.06 | 26.156 | 0.216 | 1480. | 4.9 |
| 95 | 96.0 | 7.474 | 33.507 | 5.15 | 0.06 | 26.178 | 0.219 | 1480. | 4.6 |
| 97 | 98.1 | 7.446 | 33.513 | 5.13 | 0.06 | 26.186 | 0.223 | 1480. | 4.6 |
| 99 | 100.0 | 7.437 | 33.516 | 5.10 | 0.06 | 26.189 | 0.227 | 1480. | 4.7 |

| SHIP OC | CRUISE 181 | STATION 73 | DATE 12 FEB 1987 | | EST 2058 | LATITUDE 43°18.2'N | LONGITUDE 67°31.5'W | DEPTH 202 | | |
|------------|---------------|---------------|---------------------|-------------|------------------------|----------------------------|--|--------------|----------|--|
| DEPTH m | PRESS dbar | TEMP °C | SALIN psu | OXY ml/l | ATN m ⁻¹ | SIGT gm/cm ³ | DYHT A 10m ² /s ² | S SPD m/s | N cph | |
| 101 | 101.9 | 7.481 | 33.539 | 5.02 | 0.06 | 26.202 | 0.230 | 1480. | 4.8 | |
| 103 | 104.0 | 7.482 | 33.549 | 5.00 | 0.07 | 26.209 | 0.234 | 1480. | 5.0 | |
| 105 | 106.0 | 7.584 | 33.607 | 4.98 | 0.07 | 26.240 | 0.238 | 1481. | 5.2 | |
| 107 | 108.0 | 7.683 | 33.655 | 4.95 | 0.08 | 26.264 | 0.241 | 1481. | 5.3 | |
| 109 | 110.0 | 7.749 | 33.691 | 4.93 | 0.08 | 26.282 | 0.245 | 1482. | 5.1 | |
| 111 | 111.9 | 7.800 | 33.713 | 4.92 | 0.08 | 26.292 | 0.248 | 1482. | 4.7 | |
| 113 | 114.0 | 7.882 | 33.756 | 4.89 | 0.08 | 26.314 | 0.252 | 1482. | 4.1 | |
| 115 | 116.0 | 7.894 | 33.768 | 4.89 | 0.08 | 26.322 | 0.255 | 1482. | 3.5 | |
| 117 | 118.0 | 7.906 | 33.776 | 4.88 | 0.08 | 26.327 | 0.258 | 1483. | 3.0 | |
| 119 | 120.0 | 7.905 | 33.772 | 4.88 | 0.08 | 26.324 | 0.262 | 1483. | 2.6 | |
| 121 | 122.1 | 7.912 | 33.778 | 4.88 | 0.08 | 26.327 | 0.265 | 1483. | 2.1 | |
| 123 | 124.0 | 7.920 | 33.783 | 4.87 | 0.08 | 26.330 | 0.269 | 1483. | 2.1 | |
| 125 | 126.0 | 7.922 | 33.786 | 4.87 | 0.09 | 26.332 | 0.272 | 1483. | 2.3 | |
| 127 | 128.0 | 7.925 | 33.795 | 4.87 | 0.09 | 26.339 | 0.276 | 1483. | 2.6 | |
| 129 | 129.9 | 7.926 | 33.797 | 4.86 | 0.09 | 26.340 | 0.279 | 1483. | 2.6 | |
| 131 | 132.0 | 7.928 | 33.801 | 4.86 | 0.09 | 26.343 | 0.282 | 1483. | 2.6 | |
| 133 | 134.2 | 7.949 | 33.816 | 4.85 | 0.09 | 26.352 | 0.286 | 1483. | 2.6 | |
| 135 | 135.8 | 7.953 | 33.825 | 4.85 | 0.10 | 26.358 | 0.289 | 1483. | 2.6 | |
| 137 | 137.9 | 7.954 | 33.826 | 4.85 | 0.10 | 26.359 | 0.292 | 1483. | 2.6 | |
| 139 | 140.0 | 7.961 | 33.830 | 4.84 | 0.10 | 26.361 | 0.296 | 1483. | 2.6 | |
| 141 | 142.2 | 7.991 | 33.846 | 4.82 | 0.10 | 26.369 | 0.299 | 1483. | 2.9 | |
| 143 | 143.8 | 7.995 | 33.850 | 4.81 | 0.10 | 26.371 | 0.302 | 1483. | 3.6 | |
| 145 | 146.1 | 8.005 | 33.856 | 4.81 | 0.10 | 26.375 | 0.306 | 1483. | 3.9 | |
| 147 | 148.2 | 8.019 | 33.864 | 4.80 | 0.10 | 26.379 | 0.309 | 1484. | 4.5 | |
| 149 | 149.8 | 8.056 | 33.907 | 4.77 | 0.11 | 26.407 | 0.312 | 1484. | 5.2 | |
| 151 | 151.9 | 8.102 | 33.956 | 4.47 | 0.12 | 26.439 | 0.315 | 1484. | 5.6 | |
| 153 | 153.9 | 8.130 | 33.947 | 4.46 | 0.14 | 26.428 | 0.319 | 1484. | 5.8 | |
| 155 | 155.9 | 8.113 | 33.998 | 4.46 | 0.21 | 26.470 | 0.322 | 1484. | 5.7 | |
| 157 | 158.0 | 8.072 | 34.040 | 4.47 | 0.28 | 26.509 | 0.325 | 1484. | 5.2 | |
| 159 | 160.0 | 8.081 | 34.061 | 4.47 | 0.30 | 26.524 | 0.328 | 1484. | 4.8 | |
| 161 | 162.0 | 8.084 | 34.065 | 4.46 | 0.30 | 26.528 | 0.331 | 1484. | 4.5 | |
| 163 | 164.0 | 8.088 | 34.071 | 4.46 | 0.32 | 26.531 | 0.334 | 1484. | 3.7 | |
| 165 | 166.1 | 8.093 | 34.078 | 4.45 | 0.32 | 26.536 | 0.337 | 1484. | 3.0 | |
| 167 | 168.2 | 8.106 | 34.093 | 4.44 | 0.32 | 26.546 | 0.341 | 1485. | 2.7 | |
| 169 | 170.0 | 8.122 | 34.104 | 4.42 | 0.32 | 26.552 | 0.343 | 1485. | 2.5 | |
| 170 | 171.9 | 8.125 | 34.107 | 4.41 | 0.31 | 26.554 | 0.346 | 1485. | 2.5 | |
| 173 | 174.1 | 8.128 | 34.109 | 4.40 | 0.30 | 26.555 | 0.349 | 1485. | 2.4 | |
| 174 | 175.8 | 8.130 | 34.109 | 4.36 | 0.30 | 26.555 | 0.352 | 1485. | 2.2 | |
| 177 | 178.0 | 8.135 | 34.111 | 4.34 | 0.30 | 26.556 | 0.355 | 1485. | 2.3 | |
| 179 | 180.1 | 8.158 | 34.132 | 4.33 | 0.30 | 26.569 | 0.358 | 1485. | 2.4 | |
| 180 | 181.9 | 8.157 | 34.132 | 4.33 | 0.30 | 26.569 | 0.361 | 1485. | 2.5 | |
| 182 | 184.0 | 8.161 | 34.136 | 4.32 | 0.32 | 26.571 | 0.364 | 1485. | 3.5 | |
| 184 | 185.2 | 8.165 | 34.143 | 4.32 | 0.31 | 26.576 | 0.366 | 1485. | 4.3 | |
| 184 | 185.9 | 8.164 | 34.142 | 4.32 | 0.35 | 26.576 | 0.367 | 1485. | 4.7 | |
| 185 | 187.0 | 8.174 | 34.149 | 4.32 | 0.39 | 26.580 | 0.369 | 1485. | 5.3 | |
| 186 | 188.0 | 8.242 | 34.223 | 4.29 | 0.38 | 26.628 | 0.370 | 1486. | 5.6 | |
| 187 | 189.0 | 8.243 | 34.228 | 4.29 | 0.44 | 26.631 | 0.372 | 1486. | 5.6 | |
| 188 | 189.9 | 8.238 | 34.222 | 4.28 | 0.45 | 26.627 | 0.373 | 1486. | 5.6 | |
| 189 | 190.9 | 8.248 | 34.231 | 4.28 | 0.46 | 26.633 | 0.374 | 1486. | 5.6 | |
| 190 | 192.0 | 8.250 | 34.235 | 4.28 | 0.51 | 26.636 | 0.376 | 1486. | 5.6 | |

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| SHIP OC | CRUISE 181 | STATION 73 | DATE 12 FEB 1987 | | EST 2058 | LATITUDE 43°18.2'N | LONGITUDE 67°31.5'W | DEPTH 202 | | |
|------------|---------------|---------------|---------------------|-------------|------------------------|----------------------------|--|--------------|----------|--|
| DEPTH m | PRESS dbar | TEMP °C | SALIN psu | OXY ml/l | ATN m ⁻¹ | SIGT gm/cm ³ | DYHT A 10m ² /s ² | S SPD m/s | N cph | |
| 191 | 193.1 | 8.272 | 34.259 | 4.28 | 0.56 | 26.652 | 0.377 | 1486. | 5.6 | |
| 192 | 193.6 | 8.288 | 34.280 | 4.28 | 0.57 | 26.665 | 0.378 | 1486. | 5.6 | |

| SHIP OC | CRUISE 181 | STATION 74 | DATE 12 FEB 1987 | | | EST 2211 | LATITUDE 43°12.0'N | LONGITUDE 67°20.8'W | DEPTH 200 | |
|------------|---------------|---------------|---------------------|-------------|------------------------|----------------------------|--|------------------------|--------------|--|
| DEPTH m | PRESS dbar | TEMP °C | SALIN psu | OXY ml/l | ATN m ⁻¹ | SIGT gm/cm ³ | DYHT A 10m ² /s ² | S SPD m/s | N cph | |
| 3 | 2.8 | 3.205 | 32.012 | 7.26 | 0.12 | 25.483 | 0.000 | 1459. | 0.5 | |
| 4 | 3.8 | 3.206 | 32.013 | 7.25 | 0.12 | 25.484 | 0.002 | 1459. | 0.5 | |
| 6 | 6.1 | 3.210 | 32.013 | 7.26 | 0.12 | 25.484 | 0.008 | 1460. | 0.5 | |
| 8 | 7.9 | 3.212 | 32.014 | 7.26 | 0.12 | 25.484 | 0.013 | 1460. | 0.5 | |
| 10 | 10.0 | 3.212 | 32.014 | 7.26 | 0.12 | 25.484 | 0.018 | 1460. | 0.5 | |
| 12 | 12.0 | 3.210 | 32.013 | 7.27 | 0.12 | 25.483 | 0.023 | 1460. | 0.4 | |
| 14 | 14.0 | 3.211 | 32.014 | 7.28 | 0.12 | 25.484 | 0.028 | 1460. | 0.5 | |
| 16 | 16.0 | 3.213 | 32.015 | 7.28 | 0.12 | 25.485 | 0.033 | 1460. | -0.3 | |
| 18 | 18.0 | 3.214 | 32.015 | 7.26 | 0.12 | 25.485 | 0.038 | 1460. | 0.6 | |
| 20 | 20.0 | 3.207 | 32.013 | 7.26 | 0.12 | 25.484 | 0.043 | 1460. | 1.0 | |
| 22 | 22.1 | 3.209 | 32.015 | 7.25 | 0.12 | 25.485 | 0.048 | 1460. | 1.8 | |
| 24 | 24.0 | 3.217 | 32.012 | 7.24 | 0.12 | 25.482 | 0.053 | 1460. | 2.9 | |
| 26 | 26.0 | 3.219 | 32.019 | 7.24 | 0.12 | 25.487 | 0.058 | 1460. | 3.8 | |
| 28 | 28.0 | 3.236 | 32.027 | 7.23 | 0.12 | 25.492 | 0.063 | 1460. | 4.3 | |
| 30 | 30.0 | 3.302 | 32.053 | 7.21 | 0.12 | 25.507 | 0.068 | 1460. | 4.6 | |
| 32 | 31.9 | 3.431 | 32.114 | 7.16 | 0.12 | 25.544 | 0.072 | 1461. | 4.9 | |
| 34 | 34.0 | 3.457 | 32.137 | 7.14 | 0.12 | 25.560 | 0.077 | 1461. | 4.9 | |
| 36 | 36.0 | 3.506 | 32.148 | 7.11 | 0.11 | 25.565 | 0.082 | 1461. | 4.7 | |
| 38 | 38.0 | 3.575 | 32.173 | 7.08 | 0.11 | 25.579 | 0.087 | 1462. | 4.3 | |
| 40 | 40.0 | 3.639 | 32.195 | 7.04 | 0.11 | 25.590 | 0.092 | 1462. | 3.8 | |
| 42 | 41.9 | 3.679 | 32.209 | 7.02 | 0.11 | 25.597 | 0.096 | 1462. | 3.9 | |
| 44 | 44.0 | 3.729 | 32.224 | 7.00 | 0.11 | 25.605 | 0.101 | 1463. | 4.4 | |
| 46 | 46.1 | 3.792 | 32.239 | 6.96 | 0.11 | 25.611 | 0.106 | 1463. | 4.8 | |
| 48 | 48.0 | 3.836 | 32.255 | 6.93 | 0.11 | 25.619 | 0.111 | 1463. | 5.1 | |
| 50 | 50.4 | 4.009 | 32.309 | 6.89 | 0.10 | 25.645 | 0.116 | 1464. | 6.4 | |
| 52 | 52.0 | 4.312 | 32.397 | 6.79 | 0.09 | 25.685 | 0.120 | 1465. | 7.2 | |
| 53 | 53.9 | 4.451 | 32.435 | 6.77 | 0.09 | 25.701 | 0.124 | 1466. | 7.9 | |
| 56 | 56.0 | 5.048 | 32.529 | 6.51 | 0.08 | 25.712 | 0.129 | 1469. | 8.6 | |
| 58 | 58.0 | 5.584 | 32.778 | 5.95 | 0.08 | 25.848 | 0.134 | 1471. | 8.8 | |
| 60 | 60.1 | 5.771 | 32.821 | 5.87 | 0.08 | 25.859 | 0.138 | 1472. | 8.6 | |
| 62 | 62.1 | 6.186 | 32.967 | 5.73 | 0.07 | 25.924 | 0.142 | 1474. | 8.6 | |
| 63 | 63.9 | 6.433 | 33.087 | 5.63 | 0.07 | 25.987 | 0.146 | 1475. | 8.4 | |
| 65 | 65.9 | 6.636 | 33.133 | 5.56 | 0.07 | 25.997 | 0.150 | 1476. | 7.6 | |
| 67 | 68.0 | 6.956 | 33.222 | 5.44 | 0.07 | 26.025 | 0.154 | 1477. | 7.4 | |
| 69 | 69.9 | 7.178 | 33.313 | 5.36 | 0.06 | 26.066 | 0.158 | 1478. | 6.9 | |
| 71 | 71.9 | 7.368 | 33.409 | 5.28 | 0.06 | 26.116 | 0.162 | 1479. | 6.5 | |
| 73 | 74.0 | 7.443 | 33.435 | 5.24 | 0.06 | 26.125 | 0.166 | 1480. | 6.4 | |
| 75 | 75.9 | 7.510 | 33.473 | 5.20 | 0.06 | 26.146 | 0.170 | 1480. | 5.9 | |
| 77 | 78.1 | 7.624 | 33.534 | 5.14 | 0.06 | 26.177 | 0.174 | 1481. | 5.4 | |
| 79 | 80.0 | 7.649 | 33.553 | 5.11 | 0.07 | 26.189 | 0.177 | 1481. | 5.3 | |
| 81 | 82.0 | 7.676 | 33.572 | 5.08 | 0.07 | 26.200 | 0.181 | 1481. | 5.5 | |
| 83 | 84.1 | 7.706 | 33.583 | 5.05 | 0.07 | 26.204 | 0.184 | 1481. | 5.3 | |
| 85 | 86.0 | 7.793 | 33.634 | 5.00 | 0.08 | 26.232 | 0.188 | 1481. | 5.2 | |
| 87 | 88.0 | 7.867 | 33.696 | 4.96 | 0.08 | 26.269 | 0.192 | 1482. | 5.2 | |
| 89 | 90.1 | 7.915 | 33.726 | 4.93 | 0.08 | 26.286 | 0.195 | 1482. | 5.1 | |
| 91 | 92.0 | 7.927 | 33.731 | 4.91 | 0.09 | 26.288 | 0.199 | 1482. | 4.9 | |
| 93 | 94.0 | 7.911 | 33.743 | 4.90 | 0.11 | 26.300 | 0.202 | 1482. | 4.8 | |
| 95 | 95.9 | 7.887 | 33.759 | 4.91 | 0.12 | 26.316 | 0.205 | 1482. | 4.5 | |
| 97 | 98.0 | 7.878 | 33.767 | 4.91 | 0.13 | 26.324 | 0.209 | 1482. | 4.6 | |
| 99 | 100.1 | 7.899 | 33.786 | 4.89 | 0.13 | 26.336 | 0.212 | 1482. | 4.7 | |

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| SHIP OC | CRUISE 181 | STATION 74 | DATE 12 FEB 1987 | | | EST 2211 | LATITUDE 43°12.0'N | LONGITUDE 67°20.8'W | DEPTH 200 | |
|------------|---------------|---------------|---------------------|-------------|------------------------|----------------------------|--|------------------------|--------------|--|
| DEPTH m | PRESS dbar | TEMP °C | SALIN psu | OXY ml/l | ATN m ⁻¹ | SIGT gm/cm ³ | DYHT A 10m ² /s ² | S SPD m/s | N cph | |
| 101 | 101.9 | 7.975 | 33.845 | 4.82 | 0.12 | 26.371 | 0.215 | 1483. | 4.6 | |
| 103 | 103.9 | 7.997 | 33.847 | 4.81 | 0.13 | 26.369 | 0.219 | 1483. | 4.3 | |
| 105 | 106.0 | 7.981 | 33.866 | 4.81 | 0.15 | 26.386 | 0.222 | 1483. | 3.9 | |
| 107 | 108.1 | 7.958 | 33.871 | 4.82 | 0.16 | 26.393 | 0.226 | 1483. | 3.3 | |
| 109 | 109.9 | 7.933 | 33.874 | 4.82 | 0.17 | 26.400 | 0.229 | 1483. | 2.6 | |
| 111 | 112.0 | 7.931 | 33.874 | 4.82 | 0.17 | 26.400 | 0.232 | 1483. | 2.4 | |
| 113 | 114.0 | 7.929 | 33.874 | 4.82 | 0.18 | 26.400 | 0.235 | 1483. | 1.8 | |
| 115 | 116.1 | 7.925 | 33.874 | 4.82 | 0.18 | 26.401 | 0.239 | 1483. | 1.5 | |
| 117 | 118.0 | 7.922 | 33.876 | 4.81 | 0.19 | 26.403 | 0.242 | 1483. | 1.6 | |
| 119 | 120.1 | 7.917 | 33.877 | 4.81 | 0.19 | 26.405 | 0.245 | 1483. | 2.5 | |
| 121 | 122.0 | 7.915 | 33.877 | 4.81 | 0.20 | 26.404 | 0.248 | 1483. | 3.1 | |
| 123 | 123.9 | 7.914 | 33.880 | 4.80 | 0.22 | 26.407 | 0.251 | 1483. | 3.4 | |
| 125 | 126.0 | 7.908 | 33.888 | 4.80 | 0.24 | 26.414 | 0.255 | 1483. | 3.6 | |
| 127 | 128.0 | 7.928 | 33.933 | 4.79 | 0.26 | 26.447 | 0.258 | 1483. | 3.6 | |
| 129 | 130.0 | 7.932 | 33.937 | 4.78 | 0.26 | 26.450 | 0.261 | 1483. | 3.5 | |
| 131 | 132.1 | 7.936 | 33.941 | 4.78 | 0.27 | 26.452 | 0.265 | 1483. | 3.2 | |
| 133 | 134.1 | 7.945 | 33.949 | 4.78 | 0.27 | 26.457 | 0.268 | 1483. | 2.8 | |
| 135 | 136.0 | 7.950 | 33.953 | 4.77 | 0.27 | 26.459 | 0.271 | 1483. | 2.2 | |
| 137 | 138.0 | 7.954 | 33.954 | 4.77 | 0.27 | 26.460 | 0.274 | 1483. | 2.3 | |
| 139 | 140.1 | 7.955 | 33.957 | 4.77 | 0.27 | 26.462 | 0.277 | 1483. | 2.4 | |
| 141 | 142.0 | 7.971 | 33.968 | 4.76 | 0.27 | 26.468 | 0.280 | 1483. | 2.7 | |
| 143 | 143.9 | 7.983 | 33.979 | 4.76 | 0.27 | 26.474 | 0.283 | 1483. | 3.4 | |
| 145 | 146.0 | 7.987 | 33.984 | 4.75 | 0.27 | 26.478 | 0.287 | 1484. | 3.9 | |
| 147 | 148.3 | 8.000 | 33.991 | 4.75 | 0.27 | 26.482 | 0.290 | 1484. | 4.2 | |
| 148 | 149.7 | 8.022 | 34.014 | 4.77 | 0.28 | 26.496 | 0.292 | 1484. | 4.3 | |
| 151 | 152.0 | 8.055 | 34.060 | 4.83 | 0.33 | 26.528 | 0.296 | 1484. | 4.4 | |
| 153 | 154.0 | 8.065 | 34.075 | 4.83 | 0.34 | 26.538 | 0.299 | 1484. | 4.4 | |
| 155 | 155.9 | 8.076 | 34.087 | 4.82 | 0.35 | 26.546 | 0.302 | 1484. | 4.3 | |
| 157 | 157.9 | 8.079 | 34.092 | 4.82 | 0.35 | 26.549 | 0.305 | 1484. | 3.9 | |
| 159 | 160.0 | 8.095 | 34.109 | 4.82 | 0.36 | 26.560 | 0.308 | 1484. | 3.6 | |
| 161 | 162.0 | 8.119 | 34.132 | 4.59 | 0.37 | 26.575 | 0.311 | 1484. | 4.3 | |
| 163 | 164.0 | 8.119 | 34.136 | 4.47 | 0.37 | 26.578 | 0.314 | 1485. | 5.5 | |
| 165 | 166.0 | 8.136 | 34.150 | 4.46 | 0.37 | 26.586 | 0.317 | 1485. | 6.5 | |
| 167 | 168.1 | 8.155 | 34.165 | 4.45 | 0.36 | 26.595 | 0.320 | 1485. | 7.1 | |
| 169 | 170.2 | 8.257 | 34.260 | 4.38 | 0.36 | 26.655 | 0.323 | 1485. | 7.2 | |
| 170 | 171.8 | 8.388 | 34.391 | 4.25 | 0.43 | 26.738 | 0.325 | 1486. | 7.2 | |
| 173 | 174.0 | 8.455 | 34.461 | 4.23 | 0.50 | 26.782 | 0.328 | 1486. | 6.7 | |
| 175 | 176.1 | 8.462 | 34.467 | 4.23 | 0.50 | 26.786 | 0.331 | 1486. | 5.8 | |
| 177 | 178.1 | 8.464 | 34.471 | 4.23 | 0.51 | 26.788 | 0.333 | 1486. | 4.5 | |
| 178 | 179.9 | 8.465 | 34.473 | 4.23 | 0.52 | 26.789 | 0.335 | 1487. | 2.9 | |
| 180 | 182.0 | 8.468 | 34.474 | 4.23 | 0.54 | 26.790 | 0.338 | 1487. | 1.8 | |
| 182 | 184.0 | 8.471 | 34.477 | 4.24 | 0.53 | 26.792 | 0.341 | 1487. | 1.7 | |
| 184 | 185.2 | 8.473 | 34.481 | 4.23 | 0.53 | 26.795 | 0.342 | 1487. | 1.6 | |
| 184 | 186.0 | 8.474 | 34.482 | 4.23 | 0.52 | 26.795 | 0.343 | 1487. | 1.5 | |
| 185 | 187.0 | 8.474 | 34.482 | 4.23 | 0.52 | 26.796 | 0.345 | 1487. | 1.3 | |
| 186 | 188.0 | 8.474 | 34.482 | 4.23 | 0.52 | 26.796 | 0.346 | 1487. | 1.0 | |
| 187 | 189.0 | 8.474 | 34.481 | 4.22 | 0.51 | 26.795 | 0.347 | 1487. | 0.6 | |
| 188 | 190.1 | 8.475 | 34.482 | 4.22 | 0.51 | 26.795 | 0.348 | 1487. | 0.7 | |
| 189 | 191.0 | 8.474 | 34.482 | 4.22 | 0.49 | 26.796 | 0.350 | 1487. | 0.7 | |
| 190 | 192.1 | 8.474 | 34.483 | 4.21 | 0.48 | 26.796 | 0.351 | 1487. | 0.7 | |

| SHIP | CRUISE | STATION | DATE | | EST | LATITUDE | LONGITUDE | DEPTH | | |
|-------|--------|---------|--------|------|-----------------|--------------------|----------------------------------|-------|-----|--|
| OC | 181 | 74 | 12 FEB | 1987 | 2211 | 43°12.0'N | 67°20.8'W | 200 | | |
| DEPTH | PRESS | TEMP | SALIN | OXY | ATN | SIGT | DYHT A | S SPD | N | |
| m | dbar | °C | psu | ml/l | m ⁻¹ | gm/cm ³ | 10m ² /s ² | m/s | cph | |
| 191 | 193.1 | 8.474 | 34.483 | 4.20 | 0.48 | 26.796 | 0.352 | 1487. | 0.7 | |
| 192 | 193.9 | 8.476 | 34.485 | 4.18 | 0.47 | 26.797 | 0.353 | 1487. | 0.7 | |

| SHIP | CRUISE | STATION | DATE | | EST | LATITUDE | LONGITUDE | DEPTH | | |
|-------|--------|---------|--------|------|-----------------|--------------------|----------------------------------|-------|-----|--|
| OC | 181 | 75 | 12 FEB | 1987 | 2324 | 43°05.9'N | 67°09.9'W | 213 | | |
| DEPTH | PRESS | TEMP | SALIN | OXY | ATN | SIGT | DYHT A | S SPD | N | |
| m | dbar | °C | psu | ml/l | m ⁻¹ | gm/cm ³ | 10m ² /s ² | m/s | cph | |
| 2 | 2.3 | 3.274 | 32.056 | 7.25 | 0.11 | 25.512 | 0.000 | 1460. | 0.5 | |
| 4 | 3.9 | 3.288 | 32.058 | 7.26 | 0.11 | 25.512 | 0.004 | 1460. | 0.5 | |
| 6 | 6.0 | 3.290 | 32.058 | 7.26 | 0.11 | 25.512 | 0.009 | 1460. | 0.5 | |
| 8 | 8.0 | 3.293 | 32.059 | 7.27 | 0.11 | 25.513 | 0.014 | 1460. | 0.5 | |
| 10 | 9.9 | 3.287 | 32.058 | 7.26 | 0.11 | 25.513 | 0.019 | 1460. | 0.5 | |
| 12 | 12.1 | 3.286 | 32.058 | 7.26 | 0.11 | 25.513 | 0.024 | 1460. | 0.5 | |
| 14 | 14.1 | 3.291 | 32.059 | 7.27 | 0.11 | 25.513 | 0.029 | 1460. | 0.5 | |
| 16 | 15.9 | 3.294 | 32.060 | 7.26 | 0.11 | 25.513 | 0.033 | 1460. | 0.7 | |
| 18 | 17.9 | 3.296 | 32.060 | 7.26 | 0.12 | 25.513 | 0.038 | 1460. | 1.4 | |
| 20 | 20.0 | 3.297 | 32.060 | 7.28 | 0.11 | 25.513 | 0.044 | 1460. | 1.7 | |
| 22 | 22.0 | 3.302 | 32.061 | 7.26 | 0.11 | 25.514 | 0.048 | 1460. | 1.7 | |
| 24 | 24.0 | 3.323 | 32.066 | 7.23 | 0.11 | 25.516 | 0.053 | 1460. | 1.8 | |
| 26 | 26.1 | 3.356 | 32.085 | 7.21 | 0.11 | 25.528 | 0.058 | 1461. | 5.0 | |
| 28 | 27.9 | 3.360 | 32.085 | 7.19 | 0.11 | 25.527 | 0.063 | 1461. | 6.5 | |
| 30 | 29.9 | 3.332 | 32.074 | 7.18 | 0.12 | 25.521 | 0.068 | 1461. | 7.5 | |
| 32 | 32.1 | 3.494 | 32.102 | 7.16 | 0.11 | 25.529 | 0.073 | 1461. | 8.1 | |
| 34 | 34.0 | 4.399 | 32.467 | 6.78 | 0.09 | 25.731 | 0.078 | 1466. | 8.3 | |
| 36 | 35.9 | 4.430 | 32.495 | 6.75 | 0.08 | 25.751 | 0.082 | 1466. | 8.2 | |
| 38 | 38.0 | 4.515 | 32.530 | 6.71 | 0.08 | 25.769 | 0.087 | 1466. | 7.6 | |
| 40 | 40.2 | 4.627 | 32.575 | 6.68 | 0.08 | 25.794 | 0.091 | 1467. | 6.4 | |
| 42 | 41.9 | 4.695 | 32.601 | 6.65 | 0.08 | 25.807 | 0.095 | 1467. | 4.2 | |
| 44 | 44.0 | 4.753 | 32.615 | 6.62 | 0.08 | 25.812 | 0.100 | 1467. | 4.0 | |
| 46 | 46.0 | 4.788 | 32.626 | 6.60 | 0.08 | 25.817 | 0.104 | 1468. | 3.6 | |
| 48 | 48.0 | 4.813 | 32.632 | 6.59 | 0.08 | 25.819 | 0.109 | 1468. | 3.0 | |
| 50 | 50.1 | 4.836 | 32.639 | 6.59 | 0.07 | 25.822 | 0.113 | 1468. | 3.1 | |
| 52 | 52.1 | 4.968 | 32.697 | 6.61 | 0.07 | 25.853 | 0.117 | 1469. | 3.7 | |
| 53 | 53.8 | 5.014 | 32.682 | 6.59 | 0.08 | 25.837 | 0.121 | 1469. | 4.1 | |
| 56 | 56.0 | 4.930 | 32.669 | 6.60 | 0.09 | 25.836 | 0.126 | 1468. | 5.3 | |
| 58 | 58.1 | 5.020 | 32.712 | 6.58 | 0.09 | 25.859 | 0.130 | 1469. | 6.5 | |
| 60 | 60.0 | 5.231 | 32.794 | 6.49 | 0.09 | 25.901 | 0.134 | 1470. | 7.1 | |
| 61 | 62.0 | 5.325 | 32.809 | 6.45 | 0.09 | 25.902 | 0.138 | 1470. | 7.7 | |
| 63 | 64.0 | 6.089 | 33.052 | 6.16 | 0.08 | 26.002 | 0.143 | 1474. | 7.7 | |
| 65 | 65.9 | 6.489 | 33.190 | 5.72 | 0.09 | 26.061 | 0.146 | 1475. | 7.2 | |
| 67 | 68.0 | 6.576 | 33.224 | 5.59 | 0.09 | 26.076 | 0.150 | 1476. | 6.9 | |
| 69 | 70.0 | 6.632 | 33.256 | 5.55 | 0.10 | 26.094 | 0.154 | 1476. | 6.6 | |
| 71 | 72.0 | 6.667 | 33.260 | 5.53 | 0.11 | 26.093 | 0.158 | 1476. | 5.7 | |
| 73 | 74.0 | 6.831 | 33.301 | 5.48 | 0.12 | 26.103 | 0.162 | 1477. | 5.3 | |
| 75 | 76.0 | 7.081 | 33.413 | 5.39 | 0.12 | 26.158 | 0.166 | 1478. | 5.3 | |
| 77 | 78.0 | 7.185 | 33.451 | 5.35 | 0.12 | 26.174 | 0.169 | 1479. | 5.1 | |
| 79 | 80.0 | 7.233 | 33.470 | 5.32 | 0.12 | 26.182 | 0.173 | 1479. | 5.2 | |
| 81 | 82.0 | 7.266 | 33.495 | 5.30 | 0.11 | 26.197 | 0.177 | 1479. | 5.0 | |
| 83 | 84.0 | 7.298 | 33.510 | 5.28 | 0.11 | 26.204 | 0.180 | 1479. | 4.4 | |
| 85 | 86.0 | 7.327 | 33.525 | 5.26 | 0.11 | 26.212 | 0.184 | 1479. | 4.2 | |
| 87 | 88.1 | 7.443 | 33.582 | 5.21 | 0.11 | 26.240 | 0.188 | 1480. | 4.0 | |
| 89 | 89.9 | 7.481 | 33.603 | 5.18 | 0.12 | 26.252 | 0.191 | 1480. | 3.6 | |
| 91 | 92.0 | 7.486 | 33.605 | 5.16 | 0.12 | 26.253 | 0.195 | 1480. | 3.2 | |
| 93 | 94.0 | 7.482 | 33.607 | 5.15 | 0.12 | 26.255 | 0.198 | 1480. | 2.6 | |
| 95 | 96.0 | 7.472 | 33.607 | 5.14 | 0.13 | 26.256 | 0.202 | 1480. | 1.9 | |
| 97 | 98.0 | 7.470 | 33.608 | 5.12 | 0.13 | 26.258 | 0.205 | 1480. | 2.0 | |
| 99 | 100.0 | 7.471 | 33.610 | 5.08 | 0.13 | 26.259 | 0.209 | 1480. | 2.2 | |

SHIP CRUISE STATION DATE EST LATITUDE LONGITUDE DEPTH
 OC 181 75 12 FEB 1987 2324 43°05.9'N 67°09.9'W 213

| DEPTH | PRESS | TEMP | SALIN | OXY | ATN | SIGT | DYHT A | S SPD | N |
|-------|-------|-------|--------|------|-----------------|--------------------|----------------------------------|-------|-----|
| m | dbar | °C | psu | ml/l | m ⁻¹ | gm/cm ³ | 10m ² /s ² | m/s | cph |
| 101 | 102.1 | 7.466 | 33.610 | 5.06 | 0.13 | 26.259 | 0.212 | 1480. | 3.0 |
| 103 | 104.1 | 7.464 | 33.615 | 5.04 | 0.13 | 26.264 | 0.216 | 1480. | 3.7 |
| 105 | 106.0 | 7.494 | 33.640 | 5.02 | 0.14 | 26.279 | 0.219 | 1481. | 4.3 |
| 107 | 107.9 | 7.479 | 33.633 | 5.01 | 0.15 | 26.276 | 0.223 | 1481. | 4.6 |
| 109 | 110.0 | 7.588 | 33.698 | 4.96 | 0.15 | 26.312 | 0.226 | 1481. | 4.8 |
| 111 | 112.0 | 7.678 | 33.741 | 4.94 | 0.15 | 26.333 | 0.230 | 1482. | 4.8 |
| 113 | 114.0 | 7.726 | 33.771 | 4.92 | 0.15 | 26.349 | 0.233 | 1482. | 4.8 |
| 115 | 115.9 | 7.759 | 33.783 | 4.90 | 0.15 | 26.353 | 0.236 | 1482. | 4.8 |
| 117 | 118.0 | 7.786 | 33.800 | 4.88 | 0.15 | 26.363 | 0.240 | 1482. | 4.7 |
| 119 | 119.9 | 7.827 | 33.821 | 4.86 | 0.15 | 26.374 | 0.243 | 1482. | 5.4 |
| 121 | 122.0 | 7.888 | 33.859 | 4.84 | 0.15 | 26.394 | 0.246 | 1483. | 6.8 |
| 123 | 124.1 | 7.919 | 33.886 | 4.83 | 0.17 | 26.411 | 0.250 | 1483. | 7.6 |
| 125 | 126.0 | 7.916 | 33.914 | 4.82 | 0.19 | 26.433 | 0.253 | 1483. | 8.0 |
| 127 | 127.9 | 8.005 | 34.024 | 4.81 | 0.20 | 26.507 | 0.256 | 1483. | 8.2 |
| 129 | 130.0 | 8.265 | 34.226 | 4.78 | 0.15 | 26.627 | 0.259 | 1485. | 8.1 |
| 131 | 132.1 | 8.276 | 34.231 | 4.77 | 0.13 | 26.629 | 0.262 | 1485. | 7.9 |
| 133 | 134.0 | 8.299 | 34.260 | 4.76 | 0.12 | 26.648 | 0.265 | 1485. | 7.3 |
| 135 | 136.0 | 8.336 | 34.283 | 4.41 | 0.12 | 26.661 | 0.267 | 1485. | 6.3 |
| 137 | 138.0 | 8.389 | 34.336 | 4.39 | 0.12 | 26.694 | 0.270 | 1485. | 5.3 |
| 139 | 140.0 | 8.424 | 34.379 | 4.38 | 0.12 | 26.722 | 0.273 | 1486. | 5.3 |
| 141 | 142.1 | 8.445 | 34.409 | 4.36 | 0.12 | 26.742 | 0.276 | 1486. | 5.1 |
| 143 | 144.0 | 8.450 | 34.414 | 4.35 | 0.12 | 26.746 | 0.278 | 1486. | 5.1 |
| 145 | 146.1 | 8.452 | 34.418 | 4.34 | 0.12 | 26.749 | 0.281 | 1486. | 5.0 |
| 147 | 148.1 | 8.468 | 34.445 | 4.32 | 0.12 | 26.767 | 0.284 | 1486. | 5.0 |
| 149 | 150.2 | 8.478 | 34.465 | 4.28 | 0.12 | 26.782 | 0.286 | 1486. | 4.9 |
| 151 | 152.0 | 8.508 | 34.522 | 4.21 | 0.13 | 26.822 | 0.289 | 1486. | 4.9 |
| 153 | 153.9 | 8.513 | 34.534 | 4.21 | 0.14 | 26.830 | 0.291 | 1486. | 4.7 |
| 155 | 156.0 | 8.534 | 34.556 | 4.20 | 0.14 | 26.844 | 0.294 | 1486. | 4.2 |
| 157 | 157.9 | 8.532 | 34.557 | 4.21 | 0.13 | 26.845 | 0.296 | 1487. | 3.7 |
| 159 | 160.1 | 8.551 | 34.571 | 4.21 | 0.12 | 26.853 | 0.299 | 1487. | 3.0 |
| 161 | 161.9 | 8.558 | 34.577 | 4.21 | 0.12 | 26.857 | 0.301 | 1487. | 2.8 |
| 163 | 164.1 | 8.556 | 34.578 | 4.21 | 0.13 | 26.858 | 0.303 | 1487. | 2.7 |
| 165 | 165.9 | 8.552 | 34.589 | 4.21 | 0.13 | 26.867 | 0.306 | 1487. | 2.8 |
| 167 | 168.0 | 8.553 | 34.589 | 4.21 | 0.13 | 26.867 | 0.308 | 1487. | 2.8 |
| 169 | 170.2 | 8.548 | 34.597 | 4.21 | 0.14 | 26.874 | 0.311 | 1487. | 2.7 |
| 170 | 171.8 | 8.548 | 34.604 | 4.21 | 0.15 | 26.879 | 0.313 | 1487. | 2.6 |
| 173 | 174.0 | 8.534 | 34.610 | 4.21 | 0.15 | 26.886 | 0.315 | 1487. | 2.8 |
| 175 | 176.0 | 8.528 | 34.613 | 4.21 | 0.16 | 26.890 | 0.318 | 1487. | 3.1 |
| 176 | 177.9 | 8.530 | 34.612 | 4.21 | 0.17 | 26.889 | 0.320 | 1487. | 3.1 |
| 179 | 180.0 | 8.522 | 34.616 | 4.21 | 0.17 | 26.893 | 0.322 | 1487. | 3.1 |
| 181 | 182.1 | 8.513 | 34.639 | 4.20 | 0.17 | 26.913 | 0.325 | 1487. | 3.0 |
| 182 | 184.0 | 8.512 | 34.648 | 4.19 | 0.17 | 26.920 | 0.327 | 1487. | 3.1 |
| 185 | 186.1 | 8.511 | 34.650 | 4.19 | 0.17 | 26.922 | 0.330 | 1487. | 3.4 |
| 186 | 188.0 | 8.510 | 34.655 | 4.20 | 0.17 | 26.926 | 0.332 | 1487. | 3.4 |
| 188 | 189.9 | 8.511 | 34.653 | 4.21 | 0.17 | 26.924 | 0.334 | 1487. | 3.4 |
| 190 | 192.0 | 8.509 | 34.668 | 4.21 | 0.17 | 26.936 | 0.336 | 1487. | 3.6 |
| 192 | 193.9 | 8.502 | 34.693 | 4.21 | 0.17 | 26.956 | 0.338 | 1487. | 3.8 |
| 194 | 195.9 | 8.500 | 34.698 | 4.21 | 0.18 | 26.961 | 0.341 | 1487. | 3.9 |
| 196 | 197.2 | 8.497 | 34.708 | 4.21 | 0.17 | 26.969 | 0.342 | 1487. | 4.0 |
| 196 | 198.0 | 8.495 | 34.713 | 4.21 | 0.18 | 26.973 | 0.343 | 1487. | 3.6 |

404

SHIP CRUISE STATION DATE EST LATITUDE LONGITUDE DEPTH
 OC 181 75 12 FEB 1987 2324 43°05.9'N 67°09.9'W 213

| DEPTH | PRESS | TEMP | SALIN | OXY | ATN | SIGT | DYHT A | S SPD | N |
|-------|-------|-------|--------|------|-----------------|--------------------|----------------------------------|-------|-----|
| m | dbar | °C | psu | ml/l | m ⁻¹ | gm/cm ³ | 10m ² /s ² | m/s | cph |
| 197 | 199.0 | 8.495 | 34.714 | 4.21 | 0.18 | 26.974 | 0.344 | 1487. | 2.9 |
| 198 | 200.0 | 8.494 | 34.716 | 4.20 | 0.18 | 26.976 | 0.345 | 1487. | 2.5 |
| 199 | 200.9 | 8.494 | 34.718 | 4.20 | 0.18 | 26.977 | 0.346 | 1487. | 2.1 |
| 200 | 202.0 | 8.494 | 34.719 | 4.20 | 0.18 | 26.979 | 0.347 | 1487. | 1.8 |
| 201 | 203.0 | 8.494 | 34.720 | 4.19 | 0.18 | 26.979 | 0.349 | 1487. | 1.7 |
| 202 | 204.0 | 8.494 | 34.721 | 4.19 | 0.18 | 26.980 | 0.350 | 1487. | 1.7 |
| 203 | 205.0 | 8.493 | 34.723 | 4.18 | 0.18 | 26.981 | 0.351 | 1487. | 1.7 |
| 204 | 206.1 | 8.493 | 34.723 | 4.17 | 0.17 | 26.981 | 0.352 | 1487. | 1.7 |
| 205 | 206.6 | 8.493 | 34.722 | 4.16 | 0.17 | 26.981 | 0.353 | 1487. | 1.7 |

| SHIP OC | CRUISE 181 | STATION 76 | DATE 13 FEB 1987 | | EST 0047 | LATITUDE 42°57.1'N | LONGITUDE 67°10.4'W | DEPTH 233 | |
|------------|---------------|---------------|---------------------|-------------|------------------------|----------------------------|--|--------------|----------|
| DEPTH m | PRESS dbar | TEMP °C | SALIN psu | OXY ml/l | ATN m ⁻¹ | SIGT gm/cm ³ | DYHT A 10m ² /s ² | S SPD m/s | N cph |
| 3 | 2.8 | 3.488 | 32.251 | 7.11 | 0.11 | 25.648 | 0.000 | 1461. | 0.3 |
| 4 | 4.0 | 3.488 | 32.251 | 7.14 | 0.11 | 25.648 | 0.003 | 1461. | 0.3 |
| 6 | 5.8 | 3.486 | 32.250 | 7.15 | 0.11 | 25.648 | 0.007 | 1461. | 0.3 |
| 8 | 7.9 | 3.489 | 32.250 | 7.16 | 0.11 | 25.647 | 0.012 | 1461. | 0.3 |
| 10 | 9.9 | 3.500 | 32.250 | 7.15 | 0.11 | 25.646 | 0.017 | 1461. | 0.3 |
| 12 | 12.1 | 3.506 | 32.252 | 7.16 | 0.11 | 25.647 | 0.022 | 1461. | 0.7 |
| 14 | 14.0 | 3.513 | 32.253 | 7.16 | 0.11 | 25.648 | 0.026 | 1461. | 1.1 |
| 16 | 16.1 | 3.516 | 32.254 | 7.16 | 0.11 | 25.648 | 0.031 | 1461. | 2.0 |
| 18 | 18.0 | 3.540 | 32.258 | 7.16 | 0.11 | 25.649 | 0.035 | 1461. | 3.2 |
| 20 | 19.9 | 3.563 | 32.262 | 7.14 | 0.11 | 25.650 | 0.040 | 1462. | 4.2 |
| 22 | 22.0 | 3.612 | 32.275 | 7.11 | 0.11 | 25.656 | 0.045 | 1462. | 4.8 |
| 24 | 23.9 | 3.728 | 32.312 | 7.08 | 0.11 | 25.674 | 0.049 | 1462. | 5.1 |
| 26 | 26.0 | 3.917 | 32.387 | 6.98 | 0.10 | 25.716 | 0.054 | 1463. | 5.2 |
| 28 | 28.0 | 4.044 | 32.445 | 6.94 | 0.10 | 25.750 | 0.058 | 1464. | 5.0 |
| 30 | 30.0 | 4.077 | 32.453 | 6.91 | 0.10 | 25.753 | 0.063 | 1464. | 4.7 |
| 32 | 32.1 | 4.105 | 32.460 | 6.90 | 0.09 | 25.756 | 0.068 | 1464. | 4.2 |
| 34 | 33.9 | 4.128 | 32.468 | 6.88 | 0.09 | 25.760 | 0.072 | 1464. | 3.7 |
| 36 | 36.3 | 4.181 | 32.485 | 6.85 | 0.09 | 25.768 | 0.077 | 1465. | 4.0 |
| 38 | 37.8 | 4.212 | 32.494 | 6.83 | 0.09 | 25.772 | 0.080 | 1465. | 4.7 |
| 40 | 40.0 | 4.314 | 32.530 | 6.79 | 0.09 | 25.790 | 0.085 | 1465. | 5.3 |
| 42 | 42.1 | 4.381 | 32.553 | 6.75 | 0.08 | 25.802 | 0.090 | 1466. | 5.7 |
| 44 | 44.0 | 4.561 | 32.630 | 6.70 | 0.08 | 25.844 | 0.094 | 1467. | 5.8 |
| 46 | 46.0 | 4.786 | 32.696 | 6.60 | 0.08 | 25.872 | 0.098 | 1468. | 5.7 |
| 48 | 48.0 | 4.911 | 32.739 | 6.55 | 0.07 | 25.893 | 0.102 | 1468. | 5.3 |
| 50 | 50.1 | 4.998 | 32.778 | 6.52 | 0.07 | 25.914 | 0.107 | 1469. | 4.7 |
| 51 | 51.7 | 5.005 | 32.780 | 6.53 | 0.07 | 25.915 | 0.110 | 1469. | 4.1 |
| 54 | 54.0 | 5.035 | 32.787 | 6.49 | 0.07 | 25.917 | 0.115 | 1469. | 4.0 |
| 55 | 55.9 | 5.078 | 32.802 | 6.46 | 0.07 | 25.925 | 0.119 | 1469. | 4.3 |
| 58 | 58.0 | 5.096 | 32.803 | 6.39 | 0.07 | 25.923 | 0.123 | 1469. | 5.8 |
| 60 | 60.3 | 5.242 | 32.855 | 6.31 | 0.07 | 25.948 | 0.128 | 1470. | 6.9 |
| 61 | 61.8 | 5.489 | 32.927 | 6.05 | 0.09 | 25.976 | 0.131 | 1471. | 7.5 |
| 64 | 64.1 | 6.144 | 33.065 | 5.98 | 0.08 | 26.006 | 0.136 | 1474. | 7.7 |
| 66 | 66.1 | 6.695 | 33.325 | 5.79 | 0.09 | 26.140 | 0.139 | 1476. | 7.5 |
| 67 | 67.9 | 6.788 | 33.366 | 5.75 | 0.09 | 26.161 | 0.143 | 1477. | 6.9 |
| 69 | 70.0 | 6.793 | 33.374 | 5.74 | 0.09 | 26.166 | 0.147 | 1477. | 6.0 |
| 71 | 72.0 | 6.769 | 33.367 | 5.74 | 0.09 | 26.164 | 0.150 | 1477. | 4.6 |
| 73 | 74.0 | 6.800 | 33.376 | 5.73 | 0.09 | 26.166 | 0.154 | 1477. | 1.8 |
| 76 | 76.2 | 6.859 | 33.399 | 5.72 | 0.09 | 26.177 | 0.158 | 1477. | -1.0 |
| 77 | 77.9 | 6.855 | 33.397 | 5.72 | 0.09 | 26.176 | 0.161 | 1477. | -1.7 |
| 80 | 80.2 | 6.827 | 33.395 | 5.73 | 0.09 | 26.178 | 0.165 | 1477. | -2.2 |
| 81 | 81.9 | 6.757 | 33.345 | 5.75 | 0.09 | 26.148 | 0.169 | 1477. | -2.5 |
| 83 | 84.0 | 6.717 | 33.344 | 5.77 | 0.09 | 26.153 | 0.173 | 1477. | -2.8 |
| 85 | 85.8 | 6.712 | 33.345 | 5.77 | 0.08 | 26.154 | 0.176 | 1477. | -2.7 |
| 87 | 88.1 | 6.679 | 33.329 | 5.80 | 0.08 | 26.145 | 0.180 | 1477. | -2.8 |
| 89 | 90.0 | 6.681 | 33.330 | 5.81 | 0.09 | 26.146 | 0.184 | 1477. | -2.5 |
| 91 | 92.0 | 6.655 | 33.318 | 5.81 | 0.09 | 26.140 | 0.188 | 1477. | -2.7 |
| 93 | 94.0 | 6.582 | 33.298 | 5.83 | 0.08 | 26.134 | 0.191 | 1476. | -2.6 |
| 95 | 95.9 | 6.564 | 33.282 | 5.83 | 0.08 | 26.123 | 0.195 | 1476. | -2.4 |
| 97 | 98.0 | 6.567 | 33.281 | 5.83 | 0.08 | 26.122 | 0.199 | 1476. | -2.1 |
| 99 | 100.0 | 6.560 | 33.279 | 5.84 | 0.08 | 26.122 | 0.203 | 1476. | -1.6 |

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| SHIP OC | CRUISE 181 | STATION 76 | DATE 13 FEB 1987 | | EST 0047 | LATITUDE 42°57.1'N | LONGITUDE 67°10.4'W | DEPTH 233 | |
|------------|---------------|---------------|---------------------|-------------|------------------------|----------------------------|--|--------------|----------|
| DEPTH m | PRESS dbar | TEMP °C | SALIN psu | OXY ml/l | ATN m ⁻¹ | SIGT gm/cm ³ | DYHT A 10m ² /s ² | S SPD m/s | N cph |
| 101 | 101.8 | 6.581 | 33.283 | 5.98 | 0.08 | 26.122 | 0.206 | 1477. | -0.8 |
| 103 | 104.1 | 6.516 | 33.268 | 6.01 | 0.08 | 26.119 | 0.210 | 1476. | 0.6 |
| 105 | 106.1 | 6.578 | 33.286 | 5.99 | 0.08 | 26.125 | 0.214 | 1477. | -0.4 |
| 107 | 108.0 | 6.622 | 33.294 | 5.65 | 0.08 | 26.125 | 0.218 | 1477. | 2.0 |
| 109 | 110.3 | 6.587 | 33.289 | 5.58 | 0.08 | 26.126 | 0.222 | 1477. | 4.4 |
| 111 | 111.9 | 6.590 | 33.283 | 5.54 | 0.09 | 26.121 | 0.225 | 1477. | 5.5 |
| 113 | 114.1 | 6.692 | 33.296 | 5.49 | 0.10 | 26.118 | 0.229 | 1477. | 6.4 |
| 115 | 116.1 | 7.014 | 33.410 | 5.35 | 0.11 | 26.164 | 0.233 | 1479. | 7.1 |
| 117 | 117.8 | 7.454 | 33.634 | 5.19 | 0.12 | 26.280 | 0.236 | 1481. | 7.4 |
| 119 | 120.1 | 7.535 | 33.640 | 5.15 | 0.12 | 26.273 | 0.240 | 1481. | 7.6 |
| 121 | 122.1 | 7.689 | 33.724 | 5.08 | 0.12 | 26.318 | 0.244 | 1482. | 7.5 |
| 123 | 123.9 | 7.748 | 33.771 | 5.04 | 0.12 | 26.346 | 0.247 | 1482. | 6.7 |
| 125 | 126.2 | 7.802 | 33.799 | 5.01 | 0.12 | 26.360 | 0.251 | 1482. | 5.7 |
| 127 | 127.8 | 7.858 | 33.864 | 4.97 | 0.12 | 26.403 | 0.253 | 1483. | 5.3 |
| 129 | 130.1 | 7.887 | 33.886 | 4.95 | 0.13 | 26.416 | 0.257 | 1483. | 4.4 |
| 131 | 132.1 | 7.888 | 33.888 | 4.93 | 0.13 | 26.417 | 0.260 | 1483. | 3.7 |
| 133 | 133.9 | 7.888 | 33.889 | 4.91 | 0.13 | 26.418 | 0.263 | 1483. | 3.0 |
| 135 | 136.2 | 7.889 | 33.889 | 4.90 | 0.13 | 26.418 | 0.267 | 1483. | 3.2 |
| 137 | 138.0 | 7.891 | 33.890 | 4.89 | 0.13 | 26.418 | 0.270 | 1483. | 3.8 |
| 139 | 140.0 | 7.903 | 33.899 | 4.87 | 0.13 | 26.424 | 0.273 | 1483. | 5.1 |
| 141 | 142.0 | 7.906 | 33.905 | 4.85 | 0.13 | 26.428 | 0.276 | 1483. | 6.2 |
| 143 | 144.0 | 7.990 | 33.994 | 4.81 | 0.14 | 26.486 | 0.279 | 1484. | 6.6 |
| 145 | 146.0 | 8.015 | 34.012 | 4.80 | 0.13 | 26.496 | 0.283 | 1484. | 6.1 |
| 147 | 147.8 | 8.166 | 34.141 | 4.75 | 0.11 | 26.574 | 0.285 | 1484. | 6.0 |
| 149 | 150.1 | 8.226 | 34.206 | 4.73 | 0.11 | 26.617 | 0.289 | 1485. | 5.8 |
| 151 | 151.9 | 8.177 | 34.159 | 4.77 | 0.12 | 26.587 | 0.291 | 1485. | 5.6 |
| 153 | 153.9 | 8.098 | 34.073 | 4.85 | 0.12 | 26.532 | 0.294 | 1484. | 6.1 |
| 155 | 155.9 | 8.220 | 34.191 | 4.80 | 0.11 | 26.606 | 0.297 | 1485. | 6.2 |
| 157 | 158.1 | 8.289 | 34.251 | 4.77 | 0.11 | 26.643 | 0.300 | 1485. | 6.9 |
| 159 | 159.9 | 8.373 | 34.320 | 4.74 | 0.10 | 26.684 | 0.303 | 1486. | 7.6 |
| 161 | 162.1 | 8.450 | 34.417 | 4.56 | 0.09 | 26.748 | 0.306 | 1486. | 7.9 |
| 163 | 164.0 | 8.468 | 34.444 | 4.37 | 0.10 | 26.766 | 0.308 | 1486. | 7.3 |
| 164 | 165.8 | 8.501 | 34.503 | 4.35 | 0.10 | 26.808 | 0.311 | 1486. | 7.1 |
| 167 | 168.0 | 8.511 | 34.535 | 4.34 | 0.10 | 26.831 | 0.313 | 1487. | 6.8 |
| 168 | 169.8 | 8.515 | 34.564 | 4.32 | 0.11 | 26.853 | 0.316 | 1487. | 6.4 |
| 171 | 172.0 | 8.513 | 34.587 | 4.30 | 0.11 | 26.872 | 0.318 | 1487. | 6.1 |
| 173 | 174.2 | 8.496 | 34.639 | 4.30 | 0.13 | 26.915 | 0.321 | 1487. | 5.5 |
| 175 | 176.0 | 8.488 | 34.668 | 4.29 | 0.14 | 26.939 | 0.323 | 1487. | 5.0 |
| 177 | 178.2 | 8.484 | 34.677 | 4.28 | 0.14 | 26.947 | 0.325 | 1487. | 4.4 |
| 178 | 179.9 | 8.482 | 34.681 | 4.26 | 0.14 | 26.950 | 0.327 | 1487. | 3.6 |
| 181 | 182.2 | 8.481 | 34.682 | 4.25 | 0.14 | 26.951 | 0.330 | 1487. | 2.7 |
| 182 | 183.9 | 8.480 | 34.683 | 4.23 | 0.14 | 26.952 | 0.332 | 1487. | 2.2 |
| 184 | 185.9 | 8.479 | 34.686 | 4.22 | 0.14 | 26.955 | 0.334 | 1487. | 2.1 |
| 187 | 188.3 | 8.478 | 34.691 | 4.22 | 0.14 | 26.959 | 0.337 | 1487. | 2.3 |
| 188 | 189.9 | 8.477 | 34.696 | 4.21 | 0.14 | 26.963 | 0.339 | 1487. | 2.4 |
| 191 | 192.2 | 8.476 | 34.699 | 4.21 | 0.13 | 26.965 | 0.341 | 1487. | 2.4 |
| 192 | 193.7 | 8.475 | 34.703 | 4.20 | 0.14 | 26.969 | 0.343 | 1487. | 2.3 |
| 194 | 196.1 | 8.473 | 34.712 | 4.20 | 0.14 | 26.976 | 0.345 | 1487. | 2.1 |
| 196 | 198.0 | 8.472 | 34.713 | 4.20 | 0.14 | 26.977 | 0.348 | 1487. | 1.9 |
| 198 | 200.0 | 8.472 | 34.714 | 4.21 | 0.15 | 26.978 | 0.350 | 1487. | 1.6 |

| SHIP OC | CRUISE 181 | STATION 76 | DATE 13 FEB 1987 | | EST 0047 | LATITUDE 42°57.1'N | LONGITUDE 67°10.4'W | DEPTH' 233 | |
|------------|---------------|---------------|---------------------|-------------|------------------------|----------------------------|--|---------------|----------|
| DEPTH m | PRESS dbar | TEMP °C | SALIN psu | OXY ml/l | ATN m ⁻¹ | SIGT gm/cm ³ | DVHT A 10m ² /s ² | S SPD m/s | N cph |
| 200 | 201.9 | 8.471 | 34.715 | 4.21 | 0.16 | 26.979 | 0.352 | 1487. | 1.3 |
| 202 | 204.0 | 8.471 | 34.716 | 4.21 | 0.17 | 26.979 | 0.354 | 1487. | 0.9 |
| 204 | 206.1 | 8.472 | 34.716 | 4.21 | 0.16 | 26.980 | 0.357 | 1487. | 0.8 |
| 206 | 208.0 | 8.472 | 34.717 | 4.21 | 0.17 | 26.980 | 0.359 | 1487. | 0.7 |
| 208 | 210.2 | 8.473 | 34.717 | 4.21 | 0.16 | 26.980 | 0.361 | 1487. | 0.6 |
| 210 | 211.7 | 8.473 | 34.718 | 4.21 | 0.18 | 26.980 | 0.363 | 1487. | 0.6 |
| 212 | 214.1 | 8.474 | 34.718 | 4.21 | 0.19 | 26.981 | 0.365 | 1487. | 0.6 |
| 213 | 215.3 | 8.474 | 34.718 | 4.21 | 0.18 | 26.981 | 0.367 | 1487. | 0.5 |
| 214 | 216.0 | 8.474 | 34.718 | 4.21 | 0.20 | 26.981 | 0.367 | 1487. | 0.5 |
| 215 | 216.9 | 8.474 | 34.718 | 4.21 | 0.20 | 26.981 | 0.368 | 1487. | 0.3 |
| 216 | 218.0 | 8.474 | 34.718 | 4.21 | 0.19 | 26.981 | 0.370 | 1487. | 0.3 |
| 217 | 219.0 | 8.474 | 34.718 | 4.21 | 0.18 | 26.981 | 0.371 | 1487. | 0.2 |
| 218 | 220.0 | 8.474 | 34.718 | 4.21 | 0.18 | 26.981 | 0.372 | 1488. | 0.2 |
| 219 | 221.0 | 8.475 | 34.718 | 4.20 | 0.19 | 26.981 | 0.373 | 1488. | 0.2 |
| 220 | 222.0 | 8.475 | 34.719 | 4.20 | 0.20 | 26.981 | 0.374 | 1488. | 0.2 |
| 221 | 223.1 | 8.475 | 34.718 | 4.20 | 0.20 | 26.980 | 0.375 | 1488. | 0.2 |
| 222 | 223.7 | 8.475 | 34.718 | 4.19 | 0.19 | 26.981 | 0.376 | 1488. | 0.2 |

| SHIP OC | CRUISE 181 | STATION 77 | DATE 13 FEB 1987 | | EST 0154 | LATITUDE 42°48.7'N | LONGITUDE 67°10.9'W | DEPTH 220 | |
|------------|---------------|---------------|---------------------|-------------|------------------------|----------------------------|--|--------------|----------|
| DEPTH m | PRESS dbar | TEMP °C | SALIN psu | OXY ml/l | ATN m ⁻¹ | SIGT gm/cm ³ | DVHT A 10m ² /s ² | S SPD m/s | N cph |
| 4 | 3.9 | 4.495 | 32.625 | 6.72 | 0.08 | 25.847 | 0.000 | 1466. | 0.5 |
| 6 | 6.0 | 4.480 | 32.619 | 6.74 | 0.08 | 25.844 | 0.004 | 1466. | 0.5 |
| 8 | 7.9 | 4.483 | 32.620 | 6.76 | 0.08 | 25.845 | 0.009 | 1466. | 0.5 |
| 10 | 10.0 | 4.483 | 32.620 | 6.76 | 0.08 | 25.844 | 0.013 | 1466. | 0.5 |
| 12 | 12.0 | 4.481 | 32.620 | 6.76 | 0.08 | 25.844 | 0.017 | 1466. | 0.5 |
| 14 | 14.0 | 4.478 | 32.619 | 6.76 | 0.08 | 25.844 | 0.022 | 1466. | 1.0 |
| 16 | 16.2 | 4.481 | 32.619 | 6.76 | 0.08 | 25.844 | 0.026 | 1466. | 1.3 |
| 18 | 17.9 | 4.497 | 32.625 | 6.75 | 0.08 | 25.847 | 0.030 | 1466. | 1.6 |
| 20 | 20.2 | 4.516 | 32.628 | 6.73 | 0.08 | 25.847 | 0.035 | 1466. | 1.8 |
| 22 | 21.8 | 4.529 | 32.634 | 6.74 | 0.08 | 25.850 | 0.038 | 1466. | 2.0 |
| 24 | 24.0 | 4.539 | 32.638 | 6.72 | 0.08 | 25.853 | 0.043 | 1466. | 2.0 |
| 26 | 25.8 | 4.571 | 32.649 | 6.71 | 0.08 | 25.858 | 0.047 | 1466. | 2.2 |
| 28 | 28.1 | 4.572 | 32.650 | 6.69 | 0.08 | 25.859 | 0.052 | 1466. | 2.8 |
| 30 | 30.0 | 4.631 | 32.664 | 6.66 | 0.08 | 25.864 | 0.056 | 1467. | 3.1 |
| 32 | 32.0 | 4.629 | 32.662 | 6.67 | 0.08 | 25.862 | 0.060 | 1467. | 3.2 |
| 34 | 34.0 | 4.778 | 32.698 | 6.63 | 0.08 | 25.875 | 0.064 | 1467. | 3.2 |
| 36 | 36.0 | 4.835 | 32.734 | 6.60 | 0.08 | 25.897 | 0.069 | 1468. | 3.1 |
| 38 | 38.0 | 4.838 | 32.737 | 6.60 | 0.08 | 25.899 | 0.073 | 1468. | 2.9 |
| 40 | 39.9 | 4.831 | 32.734 | 6.60 | 0.08 | 25.898 | 0.077 | 1468. | 2.7 |
| 42 | 42.1 | 4.830 | 32.735 | 6.59 | 0.08 | 25.898 | 0.081 | 1468. | 2.3 |
| 44 | 43.9 | 4.829 | 32.736 | 6.60 | 0.08 | 25.899 | 0.085 | 1468. | 2.0 |
| 46 | 46.1 | 4.835 | 32.740 | 6.58 | 0.08 | 25.902 | 0.090 | 1468. | 2.2 |
| 47 | 47.9 | 4.846 | 32.750 | 6.57 | 0.08 | 25.909 | 0.093 | 1468. | 2.3 |
| 50 | 50.1 | 4.871 | 32.760 | 6.57 | 0.08 | 25.914 | 0.098 | 1468. | 2.4 |
| 51 | 51.9 | 4.884 | 32.766 | 6.56 | 0.08 | 25.917 | 0.102 | 1468. | 2.4 |
| 54 | 53.9 | 4.903 | 32.772 | 6.58 | 0.08 | 25.920 | 0.106 | 1468. | 2.3 |
| 56 | 56.0 | 4.938 | 32.778 | 6.57 | 0.08 | 25.921 | 0.110 | 1469. | 2.2 |
| 58 | 58.1 | 4.974 | 32.790 | 6.55 | 0.08 | 25.926 | 0.115 | 1469. | 2.1 |
| 59 | 59.7 | 4.967 | 32.792 | 6.54 | 0.08 | 25.929 | 0.118 | 1469. | 2.0 |
| 62 | 62.1 | 4.962 | 32.793 | 6.55 | 0.08 | 25.930 | 0.123 | 1469. | 1.9 |
| 63 | 64.0 | 5.004 | 32.804 | 6.55 | 0.08 | 25.935 | 0.127 | 1469. | 1.8 |
| 65 | 66.0 | 5.024 | 32.807 | 6.54 | 0.08 | 25.935 | 0.131 | 1469. | 1.6 |
| 68 | 68.2 | 5.023 | 32.809 | 6.54 | 0.08 | 25.936 | 0.136 | 1469. | 1.8 |
| 69 | 69.7 | 5.038 | 32.812 | 6.54 | 0.08 | 25.937 | 0.139 | 1469. | 2.1 |
| 71 | 72.0 | 5.045 | 32.815 | 6.53 | 0.08 | 25.939 | 0.143 | 1469. | 2.4 |
| 73 | 74.0 | 5.030 | 32.815 | 6.53 | 0.08 | 25.940 | 0.148 | 1469. | 2.7 |
| 75 | 76.0 | 5.081 | 32.833 | 6.52 | 0.08 | 25.948 | 0.152 | 1470. | 2.9 |
| 77 | 78.0 | 5.149 | 32.855 | 6.48 | 0.07 | 25.958 | 0.156 | 1470. | 3.1 |
| 80 | 80.2 | 5.194 | 32.871 | 6.46 | 0.07 | 25.966 | 0.160 | 1470. | 3.2 |
| 81 | 81.9 | 5.249 | 32.884 | 6.43 | 0.07 | 25.970 | 0.164 | 1470. | 3.3 |
| 83 | 84.0 | 5.318 | 32.897 | 6.40 | 0.07 | 25.972 | 0.168 | 1471. | 3.6 |
| 85 | 86.0 | 5.406 | 32.927 | 6.34 | 0.07 | 25.986 | 0.172 | 1471. | 4.0 |
| 87 | 88.1 | 5.446 | 32.937 | 6.33 | 0.07 | 25.989 | 0.176 | 1471. | 4.6 |
| 89 | 89.9 | 5.541 | 32.967 | 6.29 | 0.07 | 26.001 | 0.180 | 1472. | 5.0 |
| 91 | 92.0 | 5.679 | 33.013 | 6.22 | 0.07 | 26.022 | 0.184 | 1472. | 5.3 |
| 93 | 94.1 | 5.914 | 33.091 | 6.15 | 0.06 | 26.055 | 0.188 | 1474. | 5.3 |
| 95 | 95.9 | 6.020 | 33.138 | 6.10 | 0.06 | 26.079 | 0.192 | 1474. | 5.8 |
| 97 | 98.3 | 6.124 | 33.169 | 6.07 | 0.06 | 26.091 | 0.196 | 1475. | 5.8 |
| 99 | 99.8 | 6.178 | 33.191 | 6.07 | 0.06 | 26.101 | 0.199 | 1475. | 6.3 |
| 101 | 101.8 | 6.262 | 33.216 | 5.85 | 0.06 | 26.111 | 0.203 | 1475. | 7.3 |

| SHIP OC | CRUISE 181 | STATION 77 | DATE 13 FEB 1987 | | | EST 0154 | LATITUDE 42°48.7'N | LONGITUDE 67°10.9'W | DEPTH 220 | |
|------------|---------------|---------------|---------------------|-------------|------------------------|----------------------------|--|------------------------|--------------|--|
| DEPTH m | PRESS dbar | TEMP °C | SALIN psu | OXY ml/l | ATN m ⁻¹ | SIGT gm/cm ³ | DYHT A 10m ² /s ² | S SPD m/s | N cph | |
| 103 | 103.9 | 6.547 | 33.346 | 5.54 | 0.06 | 26.177 | 0.207 | 1477. | 8.0 | |
| 105 | 106.1 | 6.694 | 33.363 | 5.45 | 0.06 | 26.171 | 0.211 | 1477. | 8.5 | |
| 108 | 108.4 | 7.183 | 33.570 | 5.31 | 0.07 | 26.267 | 0.215 | 1479. | 8.7 | |
| 109 | 109.9 | 7.625 | 33.781 | 5.16 | 0.07 | 26.371 | 0.218 | 1481. | 8.5 | |
| 111 | 112.2 | 7.697 | 33.827 | 5.13 | 0.07 | 26.397 | 0.222 | 1482. | 8.1 | |
| 113 | 113.9 | 7.791 | 33.874 | 5.09 | 0.07 | 26.421 | 0.224 | 1482. | 7.7 | |
| 115 | 116.0 | 7.846 | 33.908 | 5.05 | 0.07 | 26.439 | 0.228 | 1482. | 6.9 | |
| 117 | 118.1 | 7.890 | 33.943 | 5.01 | 0.07 | 26.460 | 0.231 | 1483. | 6.3 | |
| 119 | 119.9 | 7.901 | 33.973 | 4.97 | 0.08 | 26.482 | 0.234 | 1483. | 6.5 | |
| 121 | 122.0 | 7.954 | 34.030 | 4.93 | 0.08 | 26.519 | 0.237 | 1483. | 6.8 | |
| 123 | 124.0 | 8.065 | 34.099 | 4.87 | 0.08 | 26.557 | 0.240 | 1484. | 7.1 | |
| 125 | 126.0 | 8.261 | 34.153 | 4.79 | 0.07 | 26.570 | 0.243 | 1484. | 7.3 | |
| 127 | 128.0 | 8.430 | 34.247 | 4.73 | 0.07 | 26.618 | 0.246 | 1485. | 7.2 | |
| 129 | 130.0 | 8.487 | 34.316 | 4.43 | 0.06 | 26.663 | 0.249 | 1486. | 7.1 | |
| 131 | 132.1 | 8.500 | 34.352 | 4.36 | 0.06 | 26.690 | 0.252 | 1486. | 7.5 | |
| 133 | 134.0 | 8.503 | 34.398 | 4.34 | 0.06 | 26.725 | 0.254 | 1486. | 7.9 | |
| 135 | 136.0 | 8.510 | 34.419 | 4.32 | 0.07 | 26.740 | 0.257 | 1486. | 7.7 | |
| 137 | 138.2 | 8.509 | 34.457 | 4.31 | 0.07 | 26.771 | 0.260 | 1486. | 7.5 | |
| 139 | 140.0 | 8.511 | 34.579 | 4.30 | 0.08 | 26.866 | 0.262 | 1486. | 7.2 | |
| 141 | 141.9 | 8.511 | 34.630 | 4.28 | 0.08 | 26.906 | 0.264 | 1486. | 6.6 | |
| 143 | 144.4 | 8.510 | 34.638 | 4.27 | 0.08 | 26.912 | 0.267 | 1486. | 5.8 | |
| 145 | 145.8 | 8.509 | 34.641 | 4.24 | 0.09 | 26.915 | 0.269 | 1486. | 4.6 | |
| 147 | 148.2 | 8.508 | 34.644 | 4.22 | 0.09 | 26.917 | 0.271 | 1486. | 2.9 | |
| 149 | 150.0 | 8.507 | 34.646 | 4.19 | 0.09 | 26.919 | 0.274 | 1486. | 2.0 | |
| 151 | 152.0 | 8.504 | 34.651 | 4.19 | 0.09 | 26.923 | 0.276 | 1486. | 1.9 | |
| 153 | 154.0 | 8.501 | 34.652 | 4.18 | 0.09 | 26.925 | 0.278 | 1486. | 2.2 | |
| 155 | 156.0 | 8.501 | 34.652 | 4.18 | 0.09 | 26.924 | 0.281 | 1486. | 2.5 | |
| 157 | 158.0 | 8.495 | 34.657 | 4.18 | 0.09 | 26.930 | 0.283 | 1486. | 2.7 | |
| 159 | 160.0 | 8.495 | 34.657 | 4.18 | 0.10 | 26.929 | 0.285 | 1487. | 2.8 | |
| 161 | 162.1 | 8.479 | 34.673 | 4.18 | 0.10 | 26.944 | 0.287 | 1487. | 3.0 | |
| 163 | 164.0 | 8.474 | 34.679 | 4.18 | 0.11 | 26.950 | 0.290 | 1487. | 3.1 | |
| 165 | 165.9 | 8.470 | 34.687 | 4.18 | 0.11 | 26.957 | 0.292 | 1487. | 3.1 | |
| 167 | 167.9 | 8.470 | 34.689 | 4.19 | 0.11 | 26.958 | 0.294 | 1487. | 3.1 | |
| 169 | 170.1 | 8.470 | 34.696 | 4.19 | 0.11 | 26.964 | 0.296 | 1487. | 3.0 | |
| 170 | 171.8 | 8.469 | 34.703 | 4.19 | 0.11 | 26.970 | 0.298 | 1487. | 2.9 | |
| 173 | 174.1 | 8.467 | 34.713 | 4.18 | 0.12 | 26.977 | 0.301 | 1487. | 2.8 | |
| 174 | 175.9 | 8.465 | 34.722 | 4.18 | 0.13 | 26.985 | 0.303 | 1487. | 2.6 | |
| 177 | 178.0 | 8.464 | 34.725 | 4.19 | 0.13 | 26.988 | 0.305 | 1487. | 2.4 | |
| 179 | 180.1 | 8.463 | 34.727 | 4.19 | 0.13 | 26.989 | 0.307 | 1487. | 2.0 | |
| 180 | 182.0 | 8.463 | 34.728 | 4.20 | 0.14 | 26.990 | 0.310 | 1487. | 1.7 | |
| 182 | 183.9 | 8.462 | 34.730 | 4.20 | 0.14 | 26.992 | 0.312 | 1487. | 1.4 | |
| 184 | 186.0 | 8.462 | 34.730 | 4.20 | 0.14 | 26.992 | 0.314 | 1487. | 1.3 | |
| 186 | 187.8 | 8.462 | 34.732 | 4.20 | 0.14 | 26.993 | 0.316 | 1487. | 1.3 | |
| 189 | 190.1 | 8.462 | 34.734 | 4.20 | 0.14 | 26.995 | 0.318 | 1487. | 1.2 | |
| 190 | 191.8 | 8.462 | 34.734 | 4.19 | 0.14 | 26.995 | 0.320 | 1487. | 1.2 | |
| 193 | 194.2 | 8.462 | 34.736 | 4.20 | 0.15 | 26.996 | 0.323 | 1487. | 1.2 | |
| 194 | 195.8 | 8.462 | 34.736 | 4.20 | 0.15 | 26.997 | 0.325 | 1487. | 1.1 | |
| 196 | 198.0 | 8.462 | 34.738 | 4.20 | 0.15 | 26.998 | 0.327 | 1487. | 1.0 | |
| 198 | 199.9 | 8.462 | 34.739 | 4.21 | 0.15 | 26.999 | 0.329 | 1487. | 1.0 | |
| 200 | 202.1 | 8.462 | 34.740 | 4.21 | 0.15 | 26.999 | 0.331 | 1487. | 0.7 | |

| SHIP OC | CRUISE 181 | STATION 77 | DATE 13 FEB 1987 | | | EST 0154 | LATITUDE 42°48.7'N | LONGITUDE 67°10.9'W | DEPTH 220 | |
|------------|---------------|---------------|---------------------|-------------|------------------------|----------------------------|--|------------------------|--------------|--|
| DEPTH m | PRESS dbar | TEMP °C | SALIN psu | OXY ml/l | ATN m ⁻¹ | SIGT gm/cm ³ | DYHT A 10m ² /s ² | S SPD m/s | N cph | |
| 202 | 204.1 | 8.462 | 34.739 | 4.21 | 0.14 | 26.998 | 0.334 | 1487. | 0.5 | |
| 204 | 205.2 | 8.462 | 34.739 | 4.21 | 0.14 | 26.999 | 0.335 | 1487. | -0.2 | |
| 204 | 206.0 | 8.462 | 34.740 | 4.21 | 0.15 | 27.000 | 0.336 | 1487. | -0.4 | |
| 205 | 207.0 | 8.463 | 34.737 | 4.21 | 0.15 | 26.997 | 0.337 | 1487. | 0.2 | |
| 206 | 208.0 | 8.463 | 34.737 | 4.20 | 0.15 | 26.997 | 0.338 | 1487. | 0.8 | |
| 207 | 209.0 | 8.463 | 34.739 | 4.20 | 0.15 | 26.999 | 0.339 | 1487. | 1.1 | |
| 208 | 210.1 | 8.463 | 34.739 | 4.19 | 0.14 | 26.999 | 0.340 | 1487. | 1.3 | |
| 209 | 210.9 | 8.463 | 34.740 | 4.18 | 0.15 | 27.000 | 0.341 | 1487. | 1.5 | |
| 210 | 212.0 | 8.463 | 34.741 | 4.18 | 0.15 | 27.001 | 0.342 | 1487. | 1.5 | |
| 211 | 213.0 | 8.463 | 34.743 | 4.18 | 0.15 | 27.002 | 0.343 | 1487. | 1.5 | |
| 212 | 214.1 | 8.463 | 34.743 | 4.17 | 0.14 | 27.002 | 0.344 | 1487. | 1.5 | |
| 213 | 214.6 | 8.463 | 34.742 | 4.18 | 0.14 | 27.001 | 0.345 | 1487. | 1.5 | |

| SHIP OC | CRUISE 181 | STATION 78 | DATE 13 FEB 1987 | | | EST 0306 | LATITUDE 42°40.0'N | LONGITUDE 67°12.1'W | DEPTH 265 | |
|---------|------------|------------|------------------|----------|---------------------|-------------------------|---|---------------------|-----------|--|
| DEPTH m | PRESS dbar | TEMP °C | SALIN psu | OXY ml/l | ATN m ⁻¹ | SIGT gm/cm ³ | DYHT A 10m ² /s ² | S SPD m/s | N cph | |
| 4 | 4.0 | 3.843 | 32.317 | 6.98 | 0.08 | 25.668 | 0.000 | 1463. | 1.6 | |
| 6 | 6.0 | 3.856 | 32.321 | 6.99 | 0.08 | 25.669 | 0.005 | 1463. | 1.6 | |
| 8 | 8.0 | 3.901 | 32.332 | 6.98 | 0.08 | 25.674 | 0.009 | 1463. | 1.6 | |
| 10 | 9.9 | 3.912 | 32.336 | 6.97 | 0.08 | 25.676 | 0.014 | 1463. | 1.6 | |
| 12 | 12.1 | 3.916 | 32.339 | 6.97 | 0.08 | 25.678 | 0.019 | 1463. | 1.6 | |
| 14 | 14.0 | 3.915 | 32.339 | 6.98 | 0.08 | 25.679 | 0.023 | 1463. | 1.4 | |
| 16 | 16.1 | 3.923 | 32.341 | 6.98 | 0.08 | 25.679 | 0.028 | 1463. | 1.2 | |
| 18 | 17.9 | 3.921 | 32.341 | 6.98 | 0.08 | 25.679 | 0.032 | 1463. | 1.0 | |
| 20 | 20.2 | 3.933 | 32.345 | 6.97 | 0.08 | 25.681 | 0.037 | 1463. | 1.1 | |
| 22 | 21.9 | 3.938 | 32.345 | 6.97 | 0.08 | 25.681 | 0.041 | 1463. | 1.3 | |
| 24 | 24.1 | 3.952 | 32.349 | 6.98 | 0.08 | 25.683 | 0.046 | 1463. | 1.4 | |
| 26 | 25.9 | 3.953 | 32.348 | 6.96 | 0.08 | 25.682 | 0.051 | 1463. | 1.6 | |
| 28 | 28.1 | 3.970 | 32.354 | 6.96 | 0.08 | 25.685 | 0.056 | 1464. | 1.6 | |
| 30 | 29.8 | 3.980 | 32.360 | 6.95 | 0.08 | 25.688 | 0.059 | 1464. | 1.9 | |
| 32 | 32.1 | 3.992 | 32.362 | 6.93 | 0.08 | 25.689 | 0.065 | 1464. | 2.1 | |
| 34 | 33.9 | 4.010 | 32.369 | 6.93 | 0.08 | 25.692 | 0.069 | 1464. | 2.1 | |
| 36 | 36.1 | 4.017 | 32.369 | 6.91 | 0.08 | 25.692 | 0.074 | 1464. | 2.0 | |
| 38 | 37.9 | 4.070 | 32.389 | 6.89 | 0.08 | 25.703 | 0.078 | 1464. | 2.0 | |
| 40 | 40.0 | 4.073 | 32.390 | 6.88 | 0.08 | 25.703 | 0.083 | 1464. | 2.5 | |
| 42 | 42.0 | 4.090 | 32.391 | 6.88 | 0.08 | 25.702 | 0.087 | 1464. | 3.6 | |
| 44 | 43.9 | 4.130 | 32.397 | 6.86 | 0.08 | 25.703 | 0.092 | 1465. | 4.4 | |
| 46 | 46.0 | 4.174 | 32.409 | 6.83 | 0.08 | 25.708 | 0.096 | 1465. | 5.0 | |
| 48 | 47.9 | 4.354 | 32.461 | 6.77 | 0.07 | 25.731 | 0.101 | 1466. | 5.4 | |
| 50 | 50.3 | 4.569 | 32.552 | 6.69 | 0.07 | 25.782 | 0.106 | 1467. | 5.6 | |
| 51 | 51.9 | 4.712 | 32.597 | 6.64 | 0.07 | 25.802 | 0.110 | 1467. | 5.5 | |
| 54 | 54.1 | 4.785 | 32.629 | 6.62 | 0.07 | 25.820 | 0.114 | 1468. | 5.2 | |
| 56 | 56.0 | 4.837 | 32.645 | 6.62 | 0.07 | 25.826 | 0.119 | 1468. | 4.7 | |
| 57 | 58.0 | 4.877 | 32.665 | 6.59 | 0.07 | 25.838 | 0.123 | 1468. | 4.3 | |
| 60 | 60.0 | 4.912 | 32.672 | 6.57 | 0.07 | 25.840 | 0.127 | 1468. | 4.3 | |
| 61 | 62.0 | 4.984 | 32.695 | 6.55 | 0.06 | 25.850 | 0.131 | 1469. | 4.5 | |
| 63 | 63.9 | 5.056 | 32.728 | 6.51 | 0.06 | 25.868 | 0.136 | 1469. | 4.6 | |
| 66 | 66.1 | 5.176 | 32.772 | 6.48 | 0.06 | 25.889 | 0.140 | 1470. | 4.6 | |
| 67 | 68.0 | 5.237 | 32.801 | 6.46 | 0.06 | 25.906 | 0.144 | 1470. | 4.6 | |
| 69 | 70.0 | 5.281 | 32.823 | 6.43 | 0.06 | 25.918 | 0.148 | 1470. | 4.7 | |
| 71 | 72.0 | 5.323 | 32.840 | 6.42 | 0.06 | 25.927 | 0.153 | 1470. | 4.7 | |
| 73 | 74.0 | 5.361 | 32.848 | 6.40 | 0.06 | 25.928 | 0.157 | 1471. | 4.7 | |
| 75 | 76.0 | 5.427 | 32.879 | 6.36 | 0.06 | 25.945 | 0.161 | 1471. | 4.6 | |
| 77 | 77.9 | 5.556 | 32.934 | 6.32 | 0.06 | 25.974 | 0.165 | 1472. | 4.5 | |
| 79 | 80.0 | 5.619 | 32.969 | 6.28 | 0.06 | 25.994 | 0.169 | 1472. | 4.3 | |
| 81 | 82.0 | 5.695 | 32.987 | 6.25 | 0.06 | 25.999 | 0.173 | 1472. | 4.0 | |
| 83 | 84.0 | 5.727 | 32.999 | 6.23 | 0.06 | 26.005 | 0.177 | 1472. | 4.2 | |
| 85 | 86.1 | 5.757 | 33.001 | 6.22 | 0.06 | 26.003 | 0.181 | 1473. | 4.7 | |
| 87 | 87.9 | 5.803 | 33.015 | 6.19 | 0.06 | 26.009 | 0.185 | 1473. | 5.3 | |
| 89 | 90.0 | 5.974 | 33.050 | 6.15 | 0.06 | 26.016 | 0.189 | 1474. | 5.8 | |
| 91 | 92.0 | 6.227 | 33.165 | 6.06 | 0.05 | 26.075 | 0.193 | 1475. | 6.0 | |
| 93 | 94.1 | 6.514 | 33.261 | 5.95 | 0.05 | 26.113 | 0.197 | 1476. | 6.1 | |
| 95 | 96.0 | 6.622 | 33.310 | 5.89 | 0.05 | 26.138 | 0.200 | 1477. | 5.9 | |
| 97 | 97.9 | 6.661 | 33.327 | 5.86 | 0.05 | 26.146 | 0.204 | 1477. | 5.6 | |
| 99 | 100.2 | 6.759 | 33.363 | 5.84 | 0.05 | 26.162 | 0.208 | 1477. | 5.1 | |
| 101 | 101.7 | 6.795 | 33.375 | 5.56 | 0.05 | 26.166 | 0.211 | 1477. | 4.8 | |

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| SHIP OC | CRUISE 181 | STATION 78 | DATE 13 FEB 1987 | | | EST 0306 | LATITUDE 42°40.0'N | LONGITUDE 67°12.1'W | DEPTH 265 | |
|---------|------------|------------|------------------|----------|---------------------|-------------------------|---|---------------------|-----------|--|
| DEPTH m | PRESS dbar | TEMP °C | SALIN psu | OXY ml/l | ATN m ⁻¹ | SIGT gm/cm ³ | DYHT A 10m ² /s ² | S SPD m/s | N cph | |
| 103 | 104.2 | 6.912 | 33.417 | 5.37 | 0.05 | 26.184 | 0.216 | 1478. | 5.2 | |
| 105 | 105.9 | 6.993 | 33.453 | 5.32 | 0.05 | 26.201 | 0.219 | 1478. | 5.5 | |
| 107 | 108.1 | 7.176 | 33.518 | 5.24 | 0.05 | 26.227 | 0.223 | 1479. | 5.8 | |
| 109 | 110.0 | 7.283 | 33.549 | 5.20 | 0.05 | 26.237 | 0.226 | 1480. | 5.9 | |
| 111 | 112.0 | 7.561 | 33.661 | 5.11 | 0.05 | 26.286 | 0.230 | 1481. | 6.8 | |
| 113 | 114.1 | 7.619 | 33.694 | 5.07 | 0.05 | 26.304 | 0.233 | 1481. | 7.2 | |
| 115 | 115.9 | 7.642 | 33.720 | 5.03 | 0.05 | 26.321 | 0.236 | 1481. | 7.7 | |
| 117 | 118.0 | 7.707 | 33.756 | 4.99 | 0.06 | 26.340 | 0.240 | 1482. | 7.8 | |
| 119 | 119.9 | 8.053 | 33.971 | 4.87 | 0.06 | 26.458 | 0.243 | 1483. | 7.6 | |
| 121 | 122.0 | 8.095 | 33.994 | 4.85 | 0.07 | 26.470 | 0.247 | 1484. | 7.4 | |
| 123 | 123.9 | 8.076 | 34.052 | 4.84 | 0.07 | 26.518 | 0.249 | 1484. | 7.4 | |
| 125 | 126.1 | 8.038 | 34.059 | 4.85 | 0.08 | 26.529 | 0.253 | 1484. | 7.2 | |
| 127 | 127.9 | 8.114 | 34.088 | 4.83 | 0.07 | 26.541 | 0.256 | 1484. | 6.5 | |
| 129 | 130.0 | 8.132 | 34.099 | 4.82 | 0.07 | 26.547 | 0.259 | 1484. | 6.4 | |
| 131 | 132.1 | 8.343 | 34.259 | 4.76 | 0.07 | 26.641 | 0.262 | 1485. | 6.0 | |
| 133 | 133.9 | 8.389 | 34.287 | 4.75 | 0.07 | 26.656 | 0.264 | 1485. | 5.7 | |
| 135 | 136.1 | 8.399 | 34.291 | 4.74 | 0.06 | 26.657 | 0.267 | 1485. | 5.1 | |
| 137 | 137.9 | 8.400 | 34.308 | 4.73 | 0.06 | 26.670 | 0.270 | 1485. | 4.7 | |
| 139 | 140.0 | 8.393 | 34.305 | 4.73 | 0.06 | 26.669 | 0.273 | 1485. | 4.1 | |
| 141 | 142.0 | 8.378 | 34.309 | 4.72 | 0.06 | 26.674 | 0.276 | 1485. | 4.6 | |
| 143 | 144.0 | 8.364 | 34.311 | 4.42 | 0.06 | 26.678 | 0.278 | 1485. | 5.0 | |
| 145 | 146.1 | 8.367 | 34.356 | 4.37 | 0.06 | 26.713 | 0.281 | 1485. | 5.2 | |
| 147 | 148.0 | 8.403 | 34.403 | 4.33 | 0.06 | 26.744 | 0.284 | 1486. | 5.2 | |
| 149 | 150.1 | 8.444 | 34.439 | 4.28 | 0.06 | 26.767 | 0.286 | 1486. | 5.0 | |
| 151 | 151.9 | 8.467 | 34.454 | 4.22 | 0.06 | 26.774 | 0.289 | 1486. | 4.6 | |
| 153 | 154.1 | 8.486 | 34.469 | 4.22 | 0.06 | 26.783 | 0.292 | 1486. | 3.9 | |
| 155 | 155.9 | 8.490 | 34.471 | 4.21 | 0.06 | 26.784 | 0.294 | 1486. | 3.8 | |
| 157 | 158.0 | 8.491 | 34.476 | 4.21 | 0.07 | 26.788 | 0.297 | 1486. | 4.0 | |
| 159 | 160.0 | 8.498 | 34.490 | 4.21 | 0.07 | 26.798 | 0.299 | 1486. | 4.5 | |
| 161 | 161.9 | 8.507 | 34.500 | 4.21 | 0.07 | 26.805 | 0.301 | 1486. | 4.9 | |
| 163 | 164.2 | 8.578 | 34.564 | 4.19 | 0.07 | 26.844 | 0.304 | 1487. | 5.3 | |
| 165 | 165.9 | 8.593 | 34.580 | 4.18 | 0.06 | 26.854 | 0.306 | 1487. | 5.5 | |
| 167 | 168.1 | 8.650 | 34.631 | 4.16 | 0.06 | 26.885 | 0.309 | 1487. | 5.5 | |
| 169 | 169.9 | 8.664 | 34.640 | 4.15 | 0.06 | 26.889 | 0.311 | 1487. | 5.2 | |
| 171 | 171.9 | 8.666 | 34.683 | 4.15 | 0.07 | 26.923 | 0.314 | 1487. | 4.7 | |
| 173 | 174.0 | 8.662 | 34.688 | 4.15 | 0.07 | 26.928 | 0.316 | 1487. | 4.4 | |
| 175 | 176.0 | 8.680 | 34.707 | 4.15 | 0.07 | 26.940 | 0.318 | 1488. | 4.2 | |
| 177 | 178.0 | 8.697 | 34.715 | 4.15 | 0.07 | 26.944 | 0.321 | 1488. | 4.0 | |
| 179 | 180.0 | 8.709 | 34.723 | 4.14 | 0.06 | 26.948 | 0.323 | 1488. | 3.9 | |
| 180 | 182.0 | 8.705 | 34.736 | 4.15 | 0.06 | 26.958 | 0.325 | 1488. | 4.0 | |
| 182 | 184.0 | 8.707 | 34.765 | 4.15 | 0.06 | 26.981 | 0.327 | 1488. | 4.0 | |
| 184 | 185.9 | 8.714 | 34.771 | 4.15 | 0.06 | 26.984 | 0.329 | 1488. | 4.1 | |
| 187 | 188.3 | 8.711 | 34.791 | 4.15 | 0.06 | 27.001 | 0.332 | 1488. | 3.9 | |
| 188 | 189.9 | 8.711 | 34.797 | 4.14 | 0.06 | 27.006 | 0.334 | 1488. | 3.7 | |
| 190 | 192.1 | 8.703 | 34.806 | 4.14 | 0.06 | 27.013 | 0.336 | 1488. | 3.5 | |
| 192 | 194.1 | 8.689 | 34.814 | 4.14 | 0.06 | 27.022 | 0.338 | 1488. | 3.4 | |
| 194 | 196.0 | 8.691 | 34.815 | 4.14 | 0.06 | 27.022 | 0.340 | 1488. | 3.3 | |
| 196 | 198.1 | 8.660 | 34.827 | 4.14 | 0.06 | 27.037 | 0.342 | 1488. | 3.4 | |
| 198 | 200.0 | 8.651 | 34.831 | 4.14 | 0.07 | 27.042 | 0.344 | 1488. | 3.3 | |
| 200 | 202.0 | 8.641 | 34.835 | 4.15 | 0.07 | 27.046 | 0.347 | 1488. | 3.2 | |

| SHIP OC | CRUISE 181 | STATION 78 | DATE 13 FEB 1987 | | EST 0306 | LATITUDE 42°40.0'N | LONGITUDE 67°12.1'W | DEPTH 265 | | |
|------------|---------------|---------------|---------------------|-------------|------------------------|----------------------------|--|--------------|----------|--|
| DEPTH m | PRESS dbar | TEMP °C | SALIN psu | OXY ml/l | ATN m ⁻¹ | SIGT gm/cm ³ | DYHT A 10m ² /s ² | S SPD m/s | N cph | |
| 202 | 203.9 | 8.632 | 34.844 | 4.15 | 0.07 | 27.055 | 0.348 | 1488. | 3.0 | |
| 204 | 206.1 | 8.626 | 34.854 | 4.15 | 0.07 | 27.063 | 0.351 | 1488. | 2.6 | |
| 206 | 207.9 | 8.626 | 34.856 | 4.14 | 0.07 | 27.065 | 0.353 | 1488. | 2.4 | |
| 208 | 210.0 | 8.630 | 34.860 | 4.14 | 0.07 | 27.068 | 0.355 | 1488. | 2.2 | |
| 210 | 212.1 | 8.632 | 34.861 | 4.15 | 0.07 | 27.068 | 0.357 | 1488. | 2.2 | |
| 212 | 213.9 | 8.635 | 34.862 | 4.15 | 0.08 | 27.068 | 0.359 | 1488. | 2.4 | |
| 214 | 216.0 | 8.636 | 34.869 | 4.15 | 0.08 | 27.074 | 0.361 | 1488. | 2.8 | |
| 216 | 217.8 | 8.636 | 34.872 | 4.15 | 0.08 | 27.076 | 0.363 | 1488. | 3.0 | |
| 218 | 220.1 | 8.594 | 34.878 | 4.16 | 0.09 | 27.087 | 0.365 | 1488. | 3.1 | |
| 220 | 221.9 | 8.578 | 34.885 | 4.16 | 0.10 | 27.096 | 0.367 | 1488. | 3.1 | |
| 222 | 224.1 | 8.514 | 34.885 | 4.17 | 0.11 | 27.105 | 0.369 | 1488. | 2.9 | |
| 224 | 225.9 | 8.510 | 34.885 | 4.17 | 0.11 | 27.106 | 0.371 | 1488. | 2.7 | |
| 226 | 228.2 | 8.482 | 34.881 | 4.18 | 0.12 | 27.107 | 0.373 | 1488. | 2.3 | |
| 228 | 229.9 | 8.480 | 34.885 | 4.18 | 0.12 | 27.111 | 0.375 | 1488. | 1.9 | |
| 230 | 232.1 | 8.454 | 34.884 | 4.18 | 0.13 | 27.114 | 0.377 | 1488. | 1.6 | |
| 232 | 233.9 | 8.444 | 34.884 | 4.18 | 0.14 | 27.115 | 0.379 | 1488. | 1.4 | |
| 234 | 236.0 | 8.444 | 34.884 | 4.18 | 0.14 | 27.115 | 0.381 | 1488. | 1.2 | |
| 236 | 238.0 | 8.443 | 34.883 | 4.18 | 0.14 | 27.115 | 0.383 | 1488. | 0.9 | |
| 238 | 239.9 | 8.443 | 34.884 | 4.18 | 0.14 | 27.115 | 0.385 | 1488. | 0.6 | |
| 240 | 242.1 | 8.442 | 34.884 | 4.18 | 0.14 | 27.115 | 0.387 | 1488. | 0.5 | |
| 242 | 243.9 | 8.443 | 34.884 | 4.18 | 0.14 | 27.115 | 0.389 | 1488. | 0.5 | |
| 244 | 246.0 | 8.441 | 34.884 | 4.18 | 0.14 | 27.116 | 0.391 | 1488. | 0.5 | |
| 246 | 248.1 | 8.441 | 34.884 | 4.19 | 0.14 | 27.116 | 0.393 | 1488. | 0.5 | |
| 247 | 249.3 | 8.441 | 34.884 | 4.19 | 0.14 | 27.116 | 0.394 | 1488. | 0.4 | |
| 248 | 250.0 | 8.441 | 34.884 | 4.19 | 0.14 | 27.116 | 0.395 | 1488. | 0.4 | |
| 249 | 251.0 | 8.441 | 34.884 | 4.20 | 0.14 | 27.116 | 0.396 | 1488. | -0.2 | |
| 250 | 252.0 | 8.442 | 34.884 | 4.19 | 0.14 | 27.116 | 0.396 | 1488. | -0.2 | |
| 251 | 253.0 | 8.442 | 34.884 | 4.20 | 0.14 | 27.116 | 0.398 | 1488. | 0.2 | |
| 252 | 254.0 | 8.442 | 34.884 | 4.20 | 0.14 | 27.116 | 0.398 | 1488. | 0.1 | |
| 253 | 255.0 | 8.442 | 34.884 | 4.19 | 0.14 | 27.116 | 0.400 | 1488. | 0.1 | |
| 254 | 256.0 | 8.442 | 34.884 | 4.19 | 0.14 | 27.116 | 0.400 | 1488. | 0.1 | |
| 255 | 256.9 | 8.442 | 34.884 | 4.19 | 0.14 | 27.116 | 0.401 | 1488. | 0.1 | |
| 256 | 258.0 | 8.442 | 34.884 | 4.17 | 0.14 | 27.116 | 0.402 | 1488. | 0.1 | |

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| SHIP OC | CRUISE 181 | STATION 79 | DATE 13 FEB 1987 | | EST 0900 | LATITUDE 42°20.6'N | LONGITUDE 65°54.6'W | DEPTH 228 | | |
|------------|---------------|---------------|---------------------|-------------|------------------------|----------------------------|--|--------------|----------|--|
| DEPTH m | PRESS dbar | TEMP °C | SALIN psu | OXY ml/l | ATN m ⁻¹ | SIGT gm/cm ³ | DYHT A 10m ² /s ² | S SPD m/s | N cph | |
| 2 | 2.4 | 2.202 | 31.465 | 7.67 | 0.10 | 25.126 | 0.000 | 1454. | 0.3 | |
| 4 | 4.0 | 2.205 | 31.466 | 7.67 | 0.10 | 25.127 | 0.005 | 1454. | 0.3 | |
| 6 | 6.0 | 2.203 | 31.466 | 7.67 | 0.10 | 25.126 | 0.010 | 1454. | 0.3 | |
| 8 | 8.0 | 2.207 | 31.465 | 7.68 | 0.10 | 25.126 | 0.016 | 1454. | 0.3 | |
| 10 | 10.0 | 2.209 | 31.466 | 7.69 | 0.10 | 25.126 | 0.022 | 1455. | 0.3 | |
| 12 | 11.9 | 2.208 | 31.466 | 7.69 | 0.10 | 25.127 | 0.027 | 1455. | 0.1 | |
| 14 | 14.1 | 2.208 | 31.465 | 7.69 | 0.10 | 25.126 | 0.033 | 1455. | 0.3 | |
| 16 | 16.0 | 2.209 | 31.467 | 7.69 | 0.10 | 25.127 | 0.039 | 1455. | 0.5 | |
| 18 | 18.0 | 2.206 | 31.466 | 7.70 | 0.10 | 25.127 | 0.044 | 1455. | 0.6 | |
| 20 | 20.1 | 2.206 | 31.465 | 7.69 | 0.10 | 25.126 | 0.050 | 1455. | 0.9 | |
| 22 | 22.1 | 2.212 | 31.467 | 7.70 | 0.10 | 25.127 | 0.056 | 1455. | 1.2 | |
| 24 | 24.0 | 2.216 | 31.468 | 7.69 | 0.10 | 25.128 | 0.061 | 1455. | 1.3 | |
| 26 | 26.1 | 2.222 | 31.470 | 7.69 | 0.10 | 25.128 | 0.067 | 1455. | 1.8 | |
| 28 | 27.9 | 2.235 | 31.476 | 7.68 | 0.10 | 25.132 | 0.072 | 1455. | 2.2 | |
| 30 | 30.0 | 2.244 | 31.478 | 7.67 | 0.10 | 25.133 | 0.078 | 1455. | 2.4 | |
| 32 | 32.1 | 2.260 | 31.480 | 7.65 | 0.10 | 25.134 | 0.084 | 1455. | 2.6 | |
| 34 | 34.1 | 2.295 | 31.499 | 7.64 | 0.10 | 25.146 | 0.090 | 1455. | 3.0 | |
| 36 | 36.0 | 2.310 | 31.507 | 7.62 | 0.10 | 25.152 | 0.095 | 1455. | 3.5 | |
| 38 | 37.9 | 2.318 | 31.510 | 7.63 | 0.11 | 25.154 | 0.100 | 1456. | 3.8 | |
| 40 | 39.9 | 2.343 | 31.521 | 7.60 | 0.10 | 25.161 | 0.106 | 1456. | 3.9 | |
| 42 | 42.1 | 2.427 | 31.552 | 7.57 | 0.10 | 25.179 | 0.112 | 1456. | 3.8 | |
| 44 | 44.0 | 2.487 | 31.584 | 7.55 | 0.10 | 25.200 | 0.117 | 1456. | 3.7 | |
| 46 | 46.0 | 2.498 | 31.588 | 7.50 | 0.10 | 25.203 | 0.123 | 1457. | 3.6 | |
| 48 | 48.0 | 2.507 | 31.592 | 7.48 | 0.10 | 25.205 | 0.128 | 1457. | 3.2 | |
| 50 | 50.1 | 2.520 | 31.597 | 7.48 | 0.10 | 25.208 | 0.134 | 1457. | 2.7 | |
| 52 | 52.1 | 2.534 | 31.603 | 7.53 | 0.10 | 25.211 | 0.140 | 1457. | 2.9 | |
| 54 | 54.0 | 2.600 | 31.625 | 7.57 | 0.10 | 25.224 | 0.145 | 1457. | 3.6 | |
| 55 | 55.9 | 2.575 | 31.617 | 7.57 | 0.10 | 25.219 | 0.150 | 1457. | 4.1 | |
| 58 | 58.0 | 2.579 | 31.622 | 7.57 | 0.10 | 25.223 | 0.156 | 1457. | 4.5 | |
| 59 | 60.0 | 2.671 | 31.669 | 7.54 | 0.09 | 25.254 | 0.161 | 1458. | 4.9 | |
| 61 | 61.9 | 2.874 | 31.726 | 7.43 | 0.09 | 25.283 | 0.166 | 1459. | 5.2 | |
| 63 | 64.0 | 2.931 | 31.740 | 7.40 | 0.09 | 25.289 | 0.172 | 1459. | 5.3 | |
| 66 | 66.1 | 2.996 | 31.770 | 7.36 | 0.09 | 25.308 | 0.177 | 1459. | 5.4 | |
| 67 | 68.0 | 3.098 | 31.809 | 7.33 | 0.09 | 25.331 | 0.183 | 1460. | 5.7 | |
| 69 | 70.0 | 3.167 | 31.839 | 7.27 | 0.09 | 25.349 | 0.188 | 1460. | 5.9 | |
| 71 | 72.0 | 3.217 | 31.850 | 7.22 | 0.09 | 25.353 | 0.193 | 1460. | 6.3 | |
| 73 | 74.1 | 3.327 | 31.902 | 7.17 | 0.10 | 25.385 | 0.198 | 1461. | 6.4 | |
| 75 | 76.1 | 3.495 | 32.001 | 7.10 | 0.10 | 25.448 | 0.204 | 1462. | 7.1 | |
| 77 | 77.9 | 3.611 | 32.022 | 7.02 | 0.10 | 25.455 | 0.208 | 1462. | 8.7 | |
| 79 | 80.0 | 3.766 | 32.082 | 6.93 | 0.12 | 25.488 | 0.213 | 1463. | 10.1 | |
| 81 | 82.0 | 3.926 | 32.118 | 6.85 | 0.12 | 25.501 | 0.218 | 1464. | 11.3 | |
| 83 | 84.0 | 4.355 | 32.314 | 6.69 | 0.11 | 25.614 | 0.223 | 1466. | 11.9 | |
| 85 | 86.0 | 4.988 | 32.636 | 6.44 | 0.06 | 25.803 | 0.228 | 1469. | 12.1 | |
| 87 | 88.0 | 5.620 | 32.886 | 6.21 | 0.05 | 25.929 | 0.232 | 1472. | 11.9 | |
| 89 | 90.0 | 6.394 | 33.143 | 5.93 | 0.04 | 26.036 | 0.236 | 1475. | 11.1 | |
| 91 | 92.0 | 6.525 | 33.214 | 5.88 | 0.04 | 26.075 | 0.240 | 1476. | 9.6 | |
| 93 | 94.0 | 6.585 | 33.243 | 5.86 | 0.04 | 26.090 | 0.244 | 1476. | 8.0 | |
| 95 | 96.0 | 6.703 | 33.286 | 5.81 | 0.04 | 26.109 | 0.248 | 1477. | 7.0 | |
| 97 | 98.0 | 6.830 | 33.340 | 5.77 | 0.04 | 26.134 | 0.252 | 1478. | 6.7 | |
| 99 | 100.1 | 6.921 | 33.379 | 5.75 | 0.04 | 26.153 | 0.255 | 1478. | 6.7 | |

| SHIP OC | CRUISE 181 | STATION 79 | DATE 13 FEB 1987 | | EST 0900 | LATITUDE 42°20.6'N | LONGITUDE 65°54.6'W | DEPTH 228 | |
|------------|---------------|---------------|---------------------|-------------|------------------------|----------------------------|--|--------------|----------|
| DEPTH m | PRESS dbar | TEMP °C | SALIN psu | OXY ml/l | ATN m ⁻¹ | SIGT gm/cm ³ | DYHT A 10m ² /s ² | S SPD m/s | N cph |
| 101 | 102.2 | 7.082 | 33.457 | 5.65 | 0.04 | 26.192 | 0.259 | 1479. | 6.9 |
| 103 | 104.0 | 7.250 | 33.536 | 5.29 | 0.04 | 26.231 | 0.263 | 1479. | 7.0 |
| 105 | 105.6 | 7.462 | 33.635 | 5.21 | 0.04 | 26.280 | 0.265 | 1480. | 7.0 |
| 107 | 108.0 | 7.455 | 33.639 | 5.20 | 0.04 | 26.284 | 0.270 | 1480. | 6.8 |
| 109 | 109.9 | 7.622 | 33.718 | 5.15 | 0.04 | 26.322 | 0.273 | 1481. | 6.3 |
| 111 | 112.1 | 7.752 | 33.778 | 5.11 | 0.04 | 26.351 | 0.277 | 1482. | 5.9 |
| 113 | 113.9 | 7.827 | 33.831 | 5.07 | 0.04 | 26.382 | 0.280 | 1482. | 5.9 |
| 115 | 115.9 | 7.796 | 33.830 | 5.06 | 0.04 | 26.385 | 0.283 | 1482. | 6.0 |
| 117 | 118.0 | 7.864 | 33.850 | 5.03 | 0.04 | 26.391 | 0.286 | 1482. | 5.7 |
| 119 | 120.0 | 8.099 | 33.929 | 4.95 | 0.04 | 26.419 | 0.290 | 1483. | 5.5 |
| 121 | 121.9 | 8.171 | 34.017 | 4.91 | 0.04 | 26.476 | 0.293 | 1484. | 5.5 |
| 123 | 124.0 | 8.207 | 34.032 | 4.89 | 0.04 | 26.483 | 0.296 | 1484. | 5.6 |
| 125 | 126.1 | 8.317 | 34.057 | 4.84 | 0.04 | 26.486 | 0.299 | 1485. | 5.6 |
| 127 | 128.0 | 8.435 | 34.096 | 4.79 | 0.04 | 26.499 | 0.302 | 1485. | 5.3 |
| 129 | 129.9 | 8.485 | 34.145 | 4.77 | 0.04 | 26.529 | 0.305 | 1485. | 5.7 |
| 131 | 132.0 | 8.538 | 34.174 | 4.74 | 0.03 | 26.544 | 0.308 | 1486. | 6.3 |
| 133 | 134.0 | 8.670 | 34.226 | 4.68 | 0.03 | 26.564 | 0.311 | 1486. | 6.6 |
| 135 | 136.0 | 8.728 | 34.254 | 4.65 | 0.03 | 26.578 | 0.314 | 1487. | 6.7 |
| 137 | 138.0 | 9.009 | 34.429 | 4.57 | 0.03 | 26.670 | 0.317 | 1488. | 6.6 |
| 139 | 139.9 | 9.103 | 34.451 | 4.53 | 0.03 | 26.672 | 0.320 | 1488. | 6.6 |
| 141 | 142.1 | 9.162 | 34.495 | 4.51 | 0.03 | 26.697 | 0.323 | 1489. | 6.5 |
| 143 | 144.1 | 9.244 | 34.537 | 4.48 | 0.03 | 26.716 | 0.325 | 1489. | 6.5 |
| 145 | 146.0 | 9.263 | 34.557 | 4.46 | 0.03 | 26.729 | 0.328 | 1489. | 6.4 |
| 147 | 148.0 | 9.356 | 34.617 | 4.43 | 0.02 | 26.761 | 0.331 | 1489. | 6.8 |
| 149 | 149.9 | 9.449 | 34.676 | 4.40 | 0.02 | 26.791 | 0.333 | 1490. | 7.4 |
| 151 | 152.0 | 9.537 | 34.754 | 4.37 | 0.02 | 26.839 | 0.336 | 1490. | 8.0 |
| 153 | 154.0 | 9.627 | 34.826 | 4.34 | 0.02 | 26.879 | 0.338 | 1491. | 8.3 |
| 155 | 155.9 | 9.620 | 34.854 | 4.07 | 0.02 | 26.902 | 0.340 | 1491. | 8.3 |
| 157 | 157.9 | 9.611 | 34.952 | 3.98 | 0.02 | 26.981 | 0.343 | 1491. | 8.1 |
| 159 | 159.9 | 9.756 | 35.064 | 3.91 | 0.01 | 27.044 | 0.345 | 1492. | 7.7 |
| 161 | 162.0 | 9.747 | 35.086 | 3.90 | 0.01 | 27.063 | 0.347 | 1492. | 7.4 |
| 163 | 164.0 | 9.718 | 35.113 | 3.89 | 0.01 | 27.088 | 0.349 | 1492. | 6.9 |
| 165 | 166.1 | 9.735 | 35.135 | 3.87 | 0.01 | 27.103 | 0.351 | 1492. | 6.1 |
| 167 | 168.1 | 9.765 | 35.179 | 3.86 | | 27.132 | 0.353 | 1492. | 5.8 |
| 169 | 170.0 | 9.645 | 35.183 | 3.88 | | 27.156 | 0.355 | 1492. | 5.6 |
| 171 | 172.0 | 9.596 | 35.191 | 3.89 | | 27.170 | 0.357 | 1491. | 5.5 |
| 173 | 174.0 | 9.547 | 35.196 | 3.90 | | 27.182 | 0.358 | 1491. | 5.2 |
| 175 | 176.0 | 9.328 | 35.189 | 3.95 | | 27.213 | 0.360 | 1491. | 4.8 |
| 176 | 178.0 | 9.276 | 35.182 | 3.96 | | 27.216 | 0.362 | 1490. | 4.6 |
| 179 | 180.1 | 9.183 | 35.186 | 3.97 | | 27.234 | 0.364 | 1490. | 4.7 |
| 180 | 181.9 | 8.980 | 35.144 | 4.01 | | 27.235 | 0.365 | 1489. | 4.4 |
| 182 | 184.0 | 8.936 | 35.148 | 4.02 | | 27.245 | 0.367 | 1489. | 4.2 |
| 185 | 186.1 | 8.760 | 35.138 | 4.06 | | 27.265 | 0.369 | 1489. | 4.1 |
| 186 | 187.9 | 8.562 | 35.131 | 4.11 | | 27.291 | 0.370 | 1488. | 4.2 |
| 188 | 189.9 | 8.520 | 35.100 | 4.13 | | 27.273 | 0.372 | 1488. | 4.1 |
| 190 | 192.0 | 8.421 | 35.103 | 4.15 | | 27.291 | 0.374 | 1487. | 4.2 |
| 192 | 194.1 | 8.343 | 35.096 | 4.18 | | 27.297 | 0.375 | 1487. | 4.2 |
| 194 | 196.1 | 8.238 | 35.106 | 4.21 | 0.01 | 27.321 | 0.377 | 1487. | 4.4 |
| 196 | 198.0 | 8.120 | 35.078 | 4.24 | 0.01 | 27.317 | 0.379 | 1486. | 4.7 |
| 198 | 200.0 | 7.951 | 35.079 | 4.27 | 0.01 | 27.343 | 0.380 | 1486. | 4.5 |

| SHIP OC | CRUISE 181 | STATION 79 | DATE 13 FEB 1987 | | EST 0900 | LATITUDE 42°20.6'N | LONGITUDE 65°54.6'W | DEPTH 228 | |
|------------|---------------|---------------|---------------------|-------------|------------------------|----------------------------|--|--------------|----------|
| DEPTH m | PRESS dbar | TEMP °C | SALIN psu | OXY ml/l | ATN m ⁻¹ | SIGT gm/cm ³ | DYHT A 10m ² /s ² | S SPD m/s | N cph |
| 200 | 201.9 | 7.771 | 35.062 | 4.32 | 0.01 | 27.357 | 0.381 | 1485. | 4.3 |
| 202 | 204.0 | 7.594 | 35.052 | 4.36 | 0.01 | 27.375 | 0.383 | 1484. | 3.9 |
| 204 | 206.0 | 7.590 | 35.051 | 4.36 | 0.01 | 27.375 | 0.385 | 1484. | 3.6 |
| 206 | 208.0 | 7.542 | 35.047 | 4.37 | 0.01 | 27.379 | 0.386 | 1484. | 2.9 |
| 208 | 210.0 | 7.519 | 35.045 | 4.38 | 0.01 | 27.381 | 0.387 | 1484. | 2.4 |
| 209 | 211.2 | 7.517 | 35.045 | 4.38 | 0.01 | 27.381 | 0.388 | 1484. | 1.7 |
| 210 | 212.0 | 7.509 | 35.045 | 4.39 | 0.01 | 27.382 | 0.389 | 1484. | 1.6 |
| 211 | 213.0 | 7.499 | 35.044 | 4.39 | 0.01 | 27.383 | 0.390 | 1484. | 1.3 |
| 212 | 214.0 | 7.500 | 35.044 | 4.39 | 0.01 | 27.383 | 0.390 | 1484. | 1.1 |
| 213 | 215.0 | 7.499 | 35.044 | 4.39 | 0.01 | 27.383 | 0.391 | 1484. | 1.0 |
| 214 | 216.2 | 7.493 | 35.044 | 4.40 | 0.01 | 27.384 | 0.392 | 1484. | 0.7 |
| 215 | 217.0 | 7.492 | 35.044 | 4.40 | 0.01 | 27.384 | 0.392 | 1484. | 0.7 |
| 216 | 218.0 | 7.492 | 35.043 | 4.40 | 0.01 | 27.383 | 0.393 | 1484. | 0.7 |
| 217 | 219.0 | 7.493 | 35.044 | 4.40 | 0.01 | 27.384 | 0.394 | 1484. | 0.7 |
| 218 | 219.9 | 7.493 | 35.044 | 4.40 | 0.01 | 27.384 | 0.395 | 1484. | 0.7 |

| SHIP OC | CRUISE 181 | STATION 80 | DATE 13 FEB 1987 | | EST 1230 | LATITUDE 42°28.0'N | LONGITUDE 65°47.6'W | DEPTH 103 | | |
|------------|---------------|---------------|---------------------|-------------|------------------------|----------------------------|--|--------------|----------|--|
| DEPTH m | PRESS dbar | TEMP °C | SALIN psu | OXY ml/l | ATN m ⁻¹ | SIGT gm/cm ³ | DYHT A 10m ² /s ² | S SPD m/s | N cph | |
| 2 | 2.4 | 2.221 | 31.411 | 7.04 | 0.11 | 25.082 | 0.000 | 1454. | -0.2 | |
| 4 | 4.0 | 2.224 | 31.412 | 7.05 | 0.11 | 25.082 | 0.005 | 1454. | -0.2 | |
| 6 | 6.2 | 2.224 | 31.412 | 7.04 | 0.11 | 25.082 | 0.011 | 1454. | -0.2 | |
| 8 | 7.9 | 2.224 | 31.412 | 7.04 | 0.11 | 25.082 | 0.016 | 1454. | -0.2 | |
| 10 | 10.1 | 2.224 | 31.412 | 7.04 | 0.11 | 25.082 | 0.022 | 1455. | -0.2 | |
| 12 | 11.9 | 2.224 | 31.412 | 7.04 | 0.11 | 25.082 | 0.027 | 1455. | -0.2 | |
| 14 | 14.0 | 2.225 | 31.411 | 7.04 | 0.11 | 25.082 | 0.033 | 1455. | 0.2 | |
| 16 | 16.0 | 2.225 | 31.412 | 7.05 | 0.11 | 25.082 | 0.039 | 1455. | 0.2 | |
| 18 | 17.9 | 2.224 | 31.412 | 7.05 | 0.11 | 25.082 | 0.044 | 1455. | 0.3 | |
| 20 | 20.1 | 2.224 | 31.412 | 7.05 | 0.11 | 25.082 | 0.051 | 1455. | 0.4 | |
| 22 | 21.9 | 2.222 | 31.413 | 7.05 | 0.11 | 25.083 | 0.056 | 1455. | 0.4 | |
| 24 | 24.1 | 2.224 | 31.412 | 7.05 | 0.11 | 25.082 | 0.062 | 1455. | 0.6 | |
| 26 | 25.9 | 2.224 | 31.412 | 7.05 | 0.11 | 25.082 | 0.067 | 1455. | 0.5 | |
| 28 | 28.0 | 2.224 | 31.412 | 7.04 | 0.11 | 25.082 | 0.073 | 1455. | 1.1 | |
| 30 | 30.1 | 2.227 | 31.413 | 7.04 | 0.10 | 25.082 | 0.079 | 1455. | 1.4 | |
| 32 | 31.9 | 2.232 | 31.416 | 7.05 | 0.10 | 25.085 | 0.085 | 1455. | 1.6 | |
| 34 | 34.0 | 2.237 | 31.413 | 7.05 | 0.10 | 25.082 | 0.091 | 1455. | 1.7 | |
| 36 | 36.0 | 2.279 | 31.431 | 7.03 | 0.10 | 25.093 | 0.096 | 1455. | 1.7 | |
| 38 | 38.0 | 2.280 | 31.431 | 7.03 | 0.10 | 25.094 | 0.102 | 1455. | 1.7 | |
| 40 | 39.9 | 2.279 | 31.431 | 7.03 | 0.10 | 25.093 | 0.108 | 1455. | 1.4 | |
| 42 | 42.2 | 2.282 | 31.432 | 7.02 | 0.10 | 25.094 | 0.114 | 1455. | 1.3 | |
| 44 | 43.9 | 2.282 | 31.431 | 7.02 | 0.10 | 25.093 | 0.119 | 1455. | 1.0 | |
| 46 | 46.2 | 2.290 | 31.436 | 7.01 | 0.10 | 25.097 | 0.125 | 1455. | 1.5 | |
| 47 | 47.8 | 2.277 | 31.430 | 7.01 | 0.10 | 25.093 | 0.130 | 1455. | 2.0 | |
| 50 | 50.1 | 2.293 | 31.436 | 7.00 | 0.10 | 25.096 | 0.137 | 1456. | 2.6 | |
| 51 | 51.9 | 2.315 | 31.443 | 7.00 | 0.10 | 25.100 | 0.142 | 1456. | 3.0 | |
| 53 | 53.9 | 2.345 | 31.456 | 7.01 | 0.10 | 25.108 | 0.147 | 1456. | 3.4 | |
| 56 | 56.1 | 2.362 | 31.469 | 7.03 | 0.10 | 25.118 | 0.154 | 1456. | 4.0 | |
| 57 | 57.9 | 2.425 | 31.492 | 6.99 | 0.10 | 25.131 | 0.159 | 1456. | 4.4 | |
| 60 | 60.0 | 2.450 | 31.505 | 6.97 | 0.09 | 25.140 | 0.165 | 1456. | 4.7 | |
| 62 | 62.0 | 2.486 | 31.522 | 6.96 | 0.09 | 25.150 | 0.170 | 1457. | 5.1 | |
| 63 | 63.9 | 2.594 | 31.568 | 6.90 | 0.09 | 25.179 | 0.176 | 1457. | 5.6 | |
| 65 | 66.0 | 2.630 | 31.592 | 6.88 | 0.09 | 25.195 | 0.181 | 1457. | 6.0 | |
| 68 | 68.1 | 2.699 | 31.620 | 6.85 | 0.09 | 25.212 | 0.187 | 1458. | 7.2 | |
| 69 | 70.0 | 2.804 | 31.672 | 6.80 | 0.09 | 25.245 | 0.193 | 1458. | 8.9 | |
| 71 | 72.0 | 2.940 | 31.736 | 6.73 | 0.09 | 25.285 | 0.198 | 1459. | 10.3 | |
| 73 | 74.0 | 3.084 | 31.790 | 6.68 | 0.08 | 25.316 | 0.203 | 1460. | 11.6 | |
| 75 | 76.0 | 3.513 | 31.999 | 6.51 | 0.08 | 25.446 | 0.208 | 1462. | 12.2 | |
| 77 | 77.8 | 4.040 | 32.302 | 6.26 | 0.09 | 25.637 | 0.213 | 1465. | 12.4 | |
| 79 | 80.0 | 4.591 | 32.499 | 6.05 | 0.08 | 25.737 | 0.218 | 1467. | 12.4 | |
| 81 | 81.9 | 4.877 | 32.669 | 5.93 | 0.07 | 25.841 | 0.222 | 1469. | 12.0 | |
| 83 | 84.0 | 4.967 | 32.718 | 5.88 | 0.07 | 25.870 | 0.227 | 1469. | 11.1 | |
| 85 | 86.0 | 5.313 | 32.863 | 5.73 | 0.07 | 25.946 | 0.231 | 1471. | 10.1 | |
| 87 | 87.3 | 5.398 | 32.920 | 5.68 | 0.07 | 25.981 | 0.233 | 1471. | 9.9 | |
| 87 | 88.0 | 5.395 | 32.913 | 5.68 | 0.08 | 25.976 | 0.235 | 1471. | 10.0 | |
| 88 | 89.1 | 5.591 | 32.992 | 5.60 | 0.08 | 26.016 | 0.237 | 1472. | 11.1 | |
| 89 | 90.1 | 5.834 | 33.096 | 5.51 | 0.08 | 26.069 | 0.239 | 1473. | 11.8 | |
| 90 | 91.0 | 6.006 | 33.189 | 5.44 | 0.07 | 26.121 | 0.241 | 1474. | 12.1 | |
| 91 | 92.0 | 6.235 | 33.281 | 5.36 | 0.07 | 26.165 | 0.242 | 1475. | 12.0 | |
| 92 | 93.1 | 6.536 | 33.436 | 5.25 | 0.06 | 26.249 | 0.244 | 1476. | 11.3 | |

| SHIP OC | CRUISE 181 | STATION 80 | DATE 13 FEB 1987 | | EST 1230 | LATITUDE 42°28.0'N | LONGITUDE 65°47.6'W | DEPTH 103 | | |
|------------|---------------|---------------|---------------------|-------------|------------------------|----------------------------|--|--------------|----------|--|
| DEPTH m | PRESS dbar | TEMP °C | SALIN psu | OXY ml/l | ATN m ⁻¹ | SIGT gm/cm ³ | DYHT A 10m ² /s ² | S SPD m/s | N cph | |
| 93 | 94.0 | 6.700 | 33.517 | 5.19 | 0.06 | 26.291 | 0.246 | 1477. | 11.3 | |
| 94 | 95.1 | 6.718 | 33.525 | 5.18 | 0.06 | 26.295 | 0.248 | 1477. | 11.3 | |
| 95 | 96.0 | 6.776 | 33.556 | 5.16 | 0.06 | 26.312 | 0.250 | 1478. | 11.3 | |
| 96 | 96.7 | 6.760 | 33.550 | 5.15 | 0.06 | 26.309 | 0.251 | 1477. | 11.3 | |

SHIP OC CRUISE STATION DATE EST LATITUDE LONGITUDE DEPTH
181 81 13 FEB 1987 1436 42°13.9'N 65°59.8'W 246

| DEPTH m | PRESS dbar | TEMP °C | SALIN psu | OXY ml/l | ATN m ⁻¹ | SIGT gm/cm ³ | DYHT A 10m ² /s ² | S SPD m/s | N cph |
|------------|---------------|------------|--------------|-------------|------------------------|----------------------------|--|--------------|----------|
| 3 | 2.6 | 2.739 | 31.705 | 7.37 | 0.11 | 25.277 | 0.000 | 1457. | 0.7 |
| 4 | 4.1 | 2.745 | 31.707 | 7.39 | 0.11 | 25.278 | 0.004 | 1457. | 0.7 |
| 6 | 6.0 | 2.740 | 31.706 | 7.39 | 0.11 | 25.278 | 0.009 | 1457. | 0.7 |
| 8 | 7.8 | 2.741 | 31.706 | 7.39 | 0.11 | 25.278 | 0.014 | 1457. | 0.7 |
| 10 | 10.2 | 2.742 | 31.706 | 7.40 | 0.11 | 25.278 | 0.020 | 1457. | 0.7 |
| 12 | 11.9 | 2.744 | 31.706 | 7.41 | 0.11 | 25.277 | 0.025 | 1457. | 0.8 |
| 14 | 13.9 | 2.745 | 31.706 | 7.40 | 0.11 | 25.277 | 0.030 | 1457. | 1.8 |
| 16 | 16.0 | 2.753 | 31.704 | 7.40 | 0.11 | 25.275 | 0.036 | 1457. | 2.2 |
| 18 | 17.8 | 2.784 | 31.717 | 7.39 | 0.11 | 25.283 | 0.041 | 1457. | 2.9 |
| 20 | 20.0 | 2.778 | 31.715 | 7.38 | 0.11 | 25.282 | 0.047 | 1458. | 4.0 |
| 22 | 22.2 | 2.829 | 31.749 | 7.37 | 0.11 | 25.305 | 0.053 | 1458. | 6.4 |
| 24 | 23.9 | 2.880 | 31.748 | 7.35 | 0.11 | 25.300 | 0.057 | 1458. | 7.9 |
| 26 | 26.1 | 3.003 | 31.793 | 7.29 | 0.12 | 25.325 | 0.063 | 1459. | 8.8 |
| 28 | 28.1 | 3.231 | 31.884 | 7.20 | 0.11 | 25.378 | 0.068 | 1460. | 9.2 |
| 29 | 29.7 | 3.678 | 32.177 | 7.01 | 0.10 | 25.572 | 0.072 | 1462. | 9.1 |
| 32 | 32.0 | 3.819 | 32.225 | 6.94 | 0.08 | 25.596 | 0.078 | 1463. | 8.6 |
| 34 | 34.1 | 3.886 | 32.280 | 6.91 | 0.09 | 25.634 | 0.083 | 1463. | 7.6 |
| 36 | 36.0 | 3.895 | 32.284 | 6.91 | 0.09 | 25.636 | 0.087 | 1463. | 6.0 |
| 38 | 38.1 | 3.913 | 32.288 | 6.90 | 0.09 | 25.638 | 0.092 | 1463. | 3.5 |
| 40 | 40.1 | 3.927 | 32.295 | 6.90 | 0.08 | 25.642 | 0.097 | 1463. | 2.6 |
| 42 | 42.0 | 3.931 | 32.297 | 6.90 | 0.08 | 25.643 | 0.101 | 1464. | 1.6 |
| 44 | 44.0 | 3.936 | 32.299 | 6.88 | 0.08 | 25.644 | 0.106 | 1464. | 1.5 |
| 46 | 45.9 | 3.935 | 32.298 | 6.88 | 0.08 | 25.644 | 0.110 | 1464. | 1.8 |
| 48 | 48.1 | 3.955 | 32.303 | 6.87 | 0.08 | 25.646 | 0.115 | 1464. | 1.9 |
| 50 | 50.0 | 3.959 | 32.305 | 6.85 | 0.08 | 25.647 | 0.120 | 1464. | 2.1 |
| 52 | 52.0 | 3.973 | 32.308 | 6.87 | 0.08 | 25.648 | 0.125 | 1464. | 2.3 |
| 54 | 54.0 | 4.035 | 32.334 | 6.88 | 0.08 | 25.662 | 0.129 | 1464. | 2.5 |
| 56 | 56.0 | 4.055 | 32.333 | 6.88 | 0.08 | 25.660 | 0.134 | 1464. | 2.4 |
| 57 | 57.9 | 4.099 | 32.346 | 6.86 | 0.08 | 25.665 | 0.138 | 1465. | 2.3 |
| 60 | 60.1 | 4.113 | 32.351 | 6.86 | 0.08 | 25.669 | 0.143 | 1465. | 2.1 |
| 61 | 62.0 | 4.135 | 32.358 | 6.88 | 0.08 | 25.672 | 0.148 | 1465. | 1.7 |
| 64 | 64.0 | 4.136 | 32.358 | 6.89 | 0.08 | 25.672 | 0.152 | 1465. | 1.7 |
| 66 | 66.1 | 4.150 | 32.362 | 6.90 | 0.08 | 25.674 | 0.157 | 1465. | 1.7 |
| 67 | 67.9 | 4.165 | 32.365 | 6.91 | 0.08 | 25.674 | 0.161 | 1465. | 1.6 |
| 69 | 70.0 | 4.160 | 32.365 | 6.91 | 0.08 | 25.675 | 0.166 | 1465. | 2.4 |
| 72 | 72.1 | 4.192 | 32.372 | 6.91 | 0.08 | 25.678 | 0.171 | 1465. | 2.4 |
| 73 | 73.9 | 4.226 | 32.384 | 6.89 | 0.08 | 25.683 | 0.175 | 1465. | 2.4 |
| 75 | 76.0 | 4.207 | 32.378 | 6.89 | 0.07 | 25.680 | 0.180 | 1465. | 3.4 |
| 77 | 78.1 | 4.353 | 32.439 | 6.82 | 0.07 | 25.714 | 0.185 | 1466. | 4.7 |
| 79 | 80.0 | 4.407 | 32.418 | 6.79 | 0.08 | 25.692 | 0.189 | 1466. | 6.0 |
| 81 | 82.1 | 4.483 | 32.430 | 6.78 | 0.07 | 25.694 | 0.194 | 1467. | 6.6 |
| 83 | 83.9 | 4.682 | 32.535 | 6.69 | 0.07 | 25.756 | 0.198 | 1468. | 7.3 |
| 85 | 86.0 | 5.000 | 32.660 | 6.47 | 0.06 | 25.821 | 0.203 | 1469. | 7.5 |
| 87 | 88.0 | 5.385 | 32.798 | 6.01 | 0.06 | 25.886 | 0.207 | 1471. | 7.7 |
| 89 | 90.1 | 5.463 | 32.807 | 5.97 | 0.05 | 25.885 | 0.211 | 1471. | 7.3 |
| 91 | 92.0 | 5.674 | 32.910 | 5.88 | 0.05 | 25.941 | 0.215 | 1472. | 6.8 |
| 93 | 94.0 | 5.689 | 32.908 | 5.85 | 0.05 | 25.938 | 0.220 | 1472. | 6.5 |
| 95 | 96.1 | 5.865 | 32.971 | 5.76 | 0.05 | 25.966 | 0.224 | 1473. | 7.2 |
| 97 | 98.0 | 5.923 | 33.000 | 5.73 | 0.05 | 25.982 | 0.228 | 1474. | 7.8 |
| 99 | 100.2 | 6.168 | 33.101 | 5.64 | 0.05 | 26.031 | 0.232 | 1475. | 8.1 |

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SHIP OC CRUISE STATION DATE EST LATITUDE LONGITUDE DEPTH
181 81 13 FEB 1987 1436 42°13.9'N 65°59.8'W 246

| DEPTH m | PRESS dbar | TEMP °C | SALIN psu | OXY ml/l | ATN m ⁻¹ | SIGT gm/cm ³ | DYHT A 10m ² /s ² | S SPD m/s | N cph |
|------------|---------------|------------|--------------|-------------|------------------------|----------------------------|--|--------------|----------|
| 101 | 101.7 | 6.374 | 33.173 | 5.51 | 0.05 | 26.062 | 0.235 | 1476. | 8.3 |
| 103 | 104.1 | 7.048 | 33.446 | 5.21 | 0.04 | 26.188 | 0.240 | 1479. | 8.3 |
| 105 | 106.1 | 7.179 | 33.496 | 5.16 | 0.04 | 26.210 | 0.243 | 1479. | 8.3 |
| 107 | 108.0 | 7.261 | 33.545 | 5.13 | 0.04 | 26.237 | 0.247 | 1480. | 7.8 |
| 109 | 110.0 | 7.307 | 33.570 | 5.10 | 0.04 | 26.250 | 0.250 | 1480. | 7.1 |
| 111 | 112.1 | 7.438 | 33.649 | 5.06 | 0.04 | 26.294 | 0.254 | 1480. | 6.1 |
| 113 | 113.9 | 7.562 | 33.728 | 5.01 | 0.04 | 26.339 | 0.257 | 1481. | 5.8 |
| 115 | 116.0 | 7.570 | 33.741 | 5.01 | 0.04 | 26.348 | 0.261 | 1481. | 5.3 |
| 117 | 118.0 | 7.579 | 33.751 | 4.99 | 0.04 | 26.354 | 0.264 | 1481. | 4.8 |
| 119 | 120.0 | 7.593 | 33.762 | 4.97 | 0.04 | 26.361 | 0.267 | 1481. | 4.4 |
| 121 | 122.0 | 7.603 | 33.775 | 4.96 | 0.04 | 26.370 | 0.271 | 1481. | 5.0 |
| 123 | 124.0 | 7.619 | 33.786 | 4.94 | 0.04 | 26.376 | 0.274 | 1482. | 6.1 |
| 125 | 126.0 | 7.646 | 33.812 | 4.92 | 0.04 | 26.393 | 0.277 | 1482. | 7.1 |
| 127 | 128.0 | 7.703 | 33.858 | 4.89 | 0.05 | 26.420 | 0.281 | 1482. | 8.2 |
| 129 | 130.1 | 7.862 | 33.995 | 4.84 | 0.05 | 26.505 | 0.284 | 1483. | 9.0 |
| 131 | 131.9 | 7.954 | 34.072 | 4.81 | 0.04 | 26.552 | 0.287 | 1483. | 9.6 |
| 133 | 134.1 | 7.964 | 34.147 | 4.79 | 0.04 | 26.610 | 0.290 | 1483. | 10.1 |
| 135 | 136.0 | 7.750 | 34.237 | 4.85 | 0.04 | 26.711 | 0.292 | 1483. | 10.3 |
| 137 | 138.0 | 7.650 | 34.275 | 4.87 | 0.04 | 26.756 | 0.295 | 1483. | 10.0 |
| 139 | 140.0 | 7.517 | 34.313 | 4.90 | 0.04 | 26.805 | 0.298 | 1482. | 9.5 |
| 141 | 142.2 | 7.223 | 34.404 | 4.97 | 0.03 | 26.918 | 0.300 | 1481. | 8.8 |
| 143 | 143.9 | 7.141 | 34.425 | 4.99 | 0.03 | 26.947 | 0.302 | 1481. | 8.1 |
| 145 | 146.0 | 7.048 | 34.436 | 5.01 | 0.03 | 26.968 | 0.305 | 1481. | 8.2 |
| 147 | 148.1 | 7.002 | 34.444 | 5.02 | 0.03 | 26.981 | 0.307 | 1480. | 8.7 |
| 149 | 150.1 | 6.939 | 34.453 | 5.04 | 0.03 | 26.996 | 0.309 | 1480. | 9.5 |
| 151 | 152.0 | 6.787 | 34.491 | 5.14 | 0.03 | 27.047 | 0.311 | 1480. | 10.4 |
| 153 | 153.8 | 6.562 | 34.592 | 5.22 | 0.03 | 27.157 | 0.313 | 1479. | 11.0 |
| 155 | 156.1 | 6.374 | 34.712 | 5.28 | 0.02 | 27.277 | 0.315 | 1478. | 11.1 |
| 157 | 157.9 | 6.070 | 34.818 | 5.38 | 0.02 | 27.400 | 0.316 | 1477. | 10.8 |
| 159 | 160.0 | 5.905 | 34.851 | 5.43 | 0.02 | 27.447 | 0.317 | 1477. | 10.0 |
| 161 | 161.9 | 5.787 | 34.878 | 5.46 | 0.01 | 27.483 | 0.319 | 1476. | 8.6 |
| 163 | 164.0 | 5.670 | 34.897 | 5.49 | 0.01 | 27.513 | 0.320 | 1476. | 7.1 |
| 165 | 166.0 | 5.606 | 34.929 | 5.23 | 0.01 | 27.546 | 0.321 | 1476. | 5.6 |
| 167 | 168.0 | 5.609 | 34.939 | 5.12 | 0.01 | 27.554 | 0.322 | 1476. | 4.6 |
| 169 | 170.2 | 5.626 | 34.945 | 5.11 | 0.01 | 27.556 | 0.323 | 1476. | 3.7 |
| 170 | 171.8 | 5.639 | 34.950 | 5.11 | 0.01 | 27.559 | 0.324 | 1476. | 2.8 |
| 173 | 174.0 | 5.646 | 34.956 | 5.10 | 0.01 | 27.563 | 0.325 | 1476. | 2.0 |
| 175 | 176.1 | 5.648 | 34.958 | 5.09 | 0.01 | 27.564 | 0.327 | 1476. | 1.9 |
| 177 | 178.0 | 5.646 | 34.959 | 5.09 | 0.01 | 27.565 | 0.328 | 1476. | 1.8 |
| 178 | 179.9 | 5.645 | 34.961 | 5.08 | 0.01 | 27.567 | 0.329 | 1476. | 1.8 |
| 181 | 182.0 | 5.642 | 34.964 | 5.07 | 0.01 | 27.570 | 0.330 | 1476. | 1.7 |
| 182 | 183.9 | 5.638 | 34.966 | 5.05 | 0.01 | 27.572 | 0.331 | 1476. | 1.6 |
| 184 | 186.0 | 5.638 | 34.969 | 5.04 | 0.01 | 27.574 | 0.332 | 1476. | 1.5 |
| 186 | 187.9 | 5.637 | 34.970 | 5.02 | 0.01 | 27.575 | 0.333 | 1476. | 1.3 |
| 188 | 190.0 | 5.634 | 34.970 | 5.00 | 0.01 | 27.575 | 0.334 | 1476. | 1.1 |
| 190 | 191.9 | 5.632 | 34.971 | 5.00 | 0.01 | 27.576 | 0.335 | 1476. | 0.9 |
| 192 | 194.0 | 5.630 | 34.970 | 5.00 | 0.01 | 27.576 | 0.336 | 1476. | 0.7 |
| 194 | 195.9 | 5.628 | 34.970 | 5.00 | 0.01 | 27.576 | 0.337 | 1476. | 0.7 |
| 196 | 197.9 | 5.628 | 34.970 | 5.00 | 0.01 | 27.576 | 0.338 | 1476. | 0.7 |
| 198 | 200.0 | 5.625 | 34.970 | 4.99 | 0.01 | 27.576 | 0.339 | 1476. | 0.6 |

| SHIP OC | CRUISE 181 | STATION 81 | DATE 13 FEB 1987 | | EST 1436 | LATITUDE 42°13.9'N | LONGITUDE 65°59.8'W | DEPTH 246 | |
|---------|------------|------------|------------------|----------|---------------------|-------------------------|---|-----------|-------|
| DEPTH m | PRESS dbar | TEMP °C | SALIN psu | OXY ml/l | ATN m ⁻¹ | SIGT gm/cm ³ | DYHT A 10m ² /s ² | S SPD m/s | N cph |
| 200 | 202.1 | 5.619 | 34.970 | 5.00 | 0.01 | 27.577 | 0.340 | 1476. | 0.7 |
| 203 | 204.4 | 5.618 | 34.970 | 5.00 | 0.01 | 27.577 | 0.342 | 1477. | 0.6 |
| 204 | 205.8 | 5.617 | 34.970 | 5.01 | 0.01 | 27.578 | 0.342 | 1477. | 0.6 |
| 206 | 208.1 | 5.616 | 34.970 | 5.01 | 0.01 | 27.578 | 0.343 | 1477. | 0.5 |
| 208 | 209.9 | 5.617 | 34.971 | 5.01 | 0.01 | 27.578 | 0.344 | 1477. | 0.3 |
| 210 | 212.0 | 5.618 | 34.970 | 5.01 | 0.01 | 27.578 | 0.346 | 1477. | 0.2 |
| 212 | 214.2 | 5.619 | 34.970 | 5.01 | 0.01 | 27.577 | 0.347 | 1477. | 0.2 |
| 214 | 215.9 | 5.618 | 34.970 | 5.02 | 0.01 | 27.578 | 0.348 | 1477. | 0.3 |
| 216 | 218.0 | 5.618 | 34.970 | 5.02 | 0.01 | 27.578 | 0.349 | 1477. | 0.4 |
| 218 | 220.3 | 5.618 | 34.971 | 5.01 | 0.01 | 27.578 | 0.350 | 1477. | 0.6 |
| 220 | 222.0 | 5.618 | 34.971 | 5.01 | 0.01 | 27.578 | 0.351 | 1477. | 0.7 |
| 222 | 224.0 | 5.615 | 34.971 | 5.01 | 0.01 | 27.578 | 0.352 | 1477. | 0.7 |
| 224 | 226.2 | 5.612 | 34.970 | 5.01 | 0.01 | 27.578 | 0.353 | 1477. | 0.7 |
| 225 | 227.2 | 5.608 | 34.971 | 5.01 | 0.01 | 27.579 | 0.354 | 1477. | 0.7 |
| 226 | 228.0 | 5.605 | 34.970 | 5.01 | 0.01 | 27.579 | 0.354 | 1477. | 0.7 |
| 227 | 229.0 | 5.604 | 34.970 | 5.01 | 0.01 | 27.579 | 0.355 | 1477. | 0.5 |
| 228 | 230.0 | 5.604 | 34.970 | 5.01 | 0.01 | 27.579 | 0.355 | 1477. | 0.2 |
| 229 | 231.0 | 5.604 | 34.970 | 5.01 | 0.01 | 27.579 | 0.356 | 1477. | -0.3 |
| 230 | 232.0 | 5.606 | 34.970 | 5.00 | 0.01 | 27.579 | 0.356 | 1477. | -0.2 |
| 231 | 233.0 | 5.606 | 34.970 | 5.00 | 0.01 | 27.579 | 0.357 | 1477. | -0.2 |
| 232 | 234.1 | 5.606 | 34.970 | 4.99 | 0.01 | 27.579 | 0.357 | 1477. | -0.2 |
| 233 | 235.0 | 5.605 | 34.970 | 4.99 | 0.01 | 27.579 | 0.358 | 1477. | -0.2 |
| 234 | 235.7 | 5.606 | 34.970 | 4.99 | 0.01 | 27.579 | 0.358 | 1477. | -0.2 |

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| SHIP OC | CRUISE 181 | STATION 82 | DATE 13 FEB 1987 | | EST 1552 | LATITUDE 42°08.1'N | LONGITUDE 66°05.1'W | DEPTH 211 | |
|---------|------------|------------|------------------|----------|---------------------|-------------------------|---|-----------|-------|
| DEPTH m | PRESS dbar | TEMP °C | SALIN psu | OXY ml/l | ATN m ⁻¹ | SIGT gm/cm ³ | DYHT A 10m ² /s ² | S SPD m/s | N cph |
| 3 | 2.5 | 3.219 | 32.047 | 7.17 | 0.13 | 25.510 | 0.000 | 1460. | 4.2 |
| 4 | 3.9 | 3.215 | 32.045 | 7.19 | 0.13 | 25.508 | 0.003 | 1460. | 4.2 |
| 6 | 5.9 | 3.220 | 32.046 | 7.19 | 0.13 | 25.509 | 0.008 | 1460. | 4.2 |
| 8 | 8.0 | 3.250 | 32.056 | 7.18 | 0.12 | 25.514 | 0.014 | 1460. | 4.2 |
| 10 | 9.9 | 3.256 | 32.057 | 7.18 | 0.12 | 25.515 | 0.018 | 1460. | 4.2 |
| 12 | 12.1 | 3.310 | 32.077 | 7.16 | 0.12 | 25.525 | 0.024 | 1460. | 4.9 |
| 14 | 13.9 | 3.391 | 32.105 | 7.12 | 0.12 | 25.541 | 0.028 | 1461. | 5.4 |
| 16 | 16.2 | 3.532 | 32.139 | 7.07 | 0.11 | 25.555 | 0.034 | 1461. | 5.7 |
| 18 | 17.9 | 3.712 | 32.239 | 7.00 | 0.11 | 25.618 | 0.038 | 1462. | 5.8 |
| 20 | 20.1 | 3.825 | 32.274 | 6.96 | 0.11 | 25.635 | 0.043 | 1463. | 5.7 |
| 22 | 22.0 | 3.871 | 32.288 | 6.94 | 0.10 | 25.642 | 0.047 | 1463. | 5.3 |
| 24 | 23.8 | 3.953 | 32.316 | 6.91 | 0.10 | 25.656 | 0.051 | 1463. | 4.7 |
| 26 | 26.0 | 4.033 | 32.344 | 6.88 | 0.10 | 25.671 | 0.057 | 1464. | 3.8 |
| 28 | 28.2 | 4.072 | 32.359 | 6.86 | 0.10 | 25.679 | 0.062 | 1464. | 3.4 |
| 30 | 29.9 | 4.094 | 32.366 | 6.84 | 0.09 | 25.682 | 0.065 | 1464. | 3.1 |
| 32 | 32.1 | 4.116 | 32.374 | 6.83 | 0.09 | 25.687 | 0.071 | 1464. | 2.6 |
| 34 | 34.0 | 4.142 | 32.380 | 6.82 | 0.09 | 25.689 | 0.075 | 1464. | 2.2 |
| 36 | 36.1 | 4.161 | 32.387 | 6.81 | 0.09 | 25.692 | 0.080 | 1465. | 2.0 |
| 38 | 37.9 | 4.163 | 32.388 | 6.80 | 0.09 | 25.693 | 0.084 | 1465. | 1.8 |
| 40 | 39.8 | 4.193 | 32.396 | 6.79 | 0.08 | 25.696 | 0.088 | 1465. | 1.7 |
| 42 | 42.2 | 4.209 | 32.401 | 6.78 | 0.08 | 25.698 | 0.094 | 1465. | 1.7 |
| 44 | 43.9 | 4.213 | 32.402 | 6.77 | 0.08 | 25.699 | 0.098 | 1465. | 1.7 |
| 46 | 46.3 | 4.235 | 32.406 | 6.76 | 0.08 | 25.700 | 0.103 | 1465. | 2.4 |
| 48 | 47.9 | 4.250 | 32.412 | 6.75 | 0.08 | 25.703 | 0.107 | 1465. | 3.5 |
| 50 | 50.0 | 4.268 | 32.418 | 6.75 | 0.08 | 25.706 | 0.112 | 1465. | 5.1 |
| 52 | 52.0 | 4.296 | 32.422 | 6.75 | 0.08 | 25.707 | 0.116 | 1465. | 6.3 |
| 54 | 54.0 | 4.486 | 32.484 | 6.67 | 0.07 | 25.736 | 0.121 | 1466. | 7.3 |
| 56 | 56.0 | 4.864 | 32.594 | 6.49 | 0.06 | 25.783 | 0.125 | 1468. | 7.9 |
| 57 | 57.9 | 5.239 | 32.746 | 6.36 | 0.05 | 25.862 | 0.129 | 1470. | 8.3 |
| 60 | 60.0 | 5.518 | 32.844 | 6.27 | 0.05 | 25.907 | 0.134 | 1471. | 8.3 |
| 61 | 61.9 | 5.729 | 32.931 | 6.21 | 0.05 | 25.951 | 0.138 | 1472. | 7.8 |
| 64 | 64.2 | 5.836 | 33.000 | 6.18 | 0.05 | 25.992 | 0.142 | 1473. | 6.9 |
| 65 | 65.9 | 5.819 | 33.029 | 6.18 | 0.06 | 26.018 | 0.146 | 1473. | 5.9 |
| 67 | 68.0 | 5.806 | 33.043 | 6.19 | 0.06 | 26.030 | 0.150 | 1473. | 4.9 |
| 70 | 70.1 | 5.823 | 33.050 | 6.19 | 0.06 | 26.034 | 0.154 | 1473. | 4.1 |
| 72 | 72.1 | 5.828 | 33.057 | 6.20 | 0.06 | 26.039 | 0.158 | 1473. | 3.3 |
| 73 | 74.0 | 5.819 | 33.059 | 6.20 | 0.06 | 26.041 | 0.162 | 1473. | 2.9 |
| 76 | 76.2 | 5.820 | 33.066 | 6.21 | 0.06 | 26.046 | 0.166 | 1473. | 2.8 |
| 77 | 78.0 | 5.814 | 33.074 | 6.21 | 0.06 | 26.054 | 0.169 | 1473. | 2.9 |
| 79 | 79.9 | 5.846 | 33.087 | 6.19 | 0.06 | 26.060 | 0.173 | 1473. | 3.0 |
| 82 | 82.2 | 5.887 | 33.100 | 6.18 | 0.06 | 26.066 | 0.178 | 1473. | 3.1 |
| 83 | 83.9 | 5.919 | 33.108 | 6.16 | 0.06 | 26.068 | 0.181 | 1473. | 3.3 |
| 85 | 86.1 | 5.956 | 33.123 | 6.16 | 0.06 | 26.075 | 0.185 | 1474. | 3.4 |
| 87 | 88.0 | 5.995 | 33.139 | 6.14 | 0.06 | 26.083 | 0.189 | 1474. | 3.4 |
| 89 | 90.0 | 6.078 | 33.168 | 6.11 | 0.06 | 26.095 | 0.193 | 1474. | 3.5 |
| 91 | 92.2 | 6.115 | 33.184 | 6.10 | 0.06 | 26.104 | 0.197 | 1474. | 3.3 |
| 93 | 93.7 | 6.168 | 33.201 | 6.08 | 0.06 | 26.111 | 0.200 | 1475. | 3.0 |
| 95 | 96.3 | 6.194 | 33.215 | 6.07 | 0.06 | 26.118 | 0.205 | 1475. | 2.7 |
| 97 | 97.9 | 6.195 | 33.216 | 6.06 | 0.06 | 26.119 | 0.208 | 1475. | 2.3 |
| 99 | 100.1 | 6.196 | 33.216 | 6.06 | 0.06 | 26.118 | 0.212 | 1475. | 2.0 |

| SHIP OC | CRUISE 181 | STATION 82 | DATE 13 FEB 1987 | | EST 1552 | LATITUDE 42°08.1'N | LONGITUDE 66°05.1'W | DEPTH 211 | | |
|------------|---------------|---------------|---------------------|-------------|------------------------|----------------------------|--|--------------|----------|--|
| DEPTH m | PRESS dbar | TEMP °C | SALIN psu | OXY ml/l | ATN m ⁻¹ | SIGT gm/cm ³ | DYHT A 10m ² /s ² | S SPD m/s | N cph | |
| 101 | 101.9 | 6.197 | 33.218 | 6.06 | 0.06 | 26.120 | 0.215 | 1475. | 1.9 | |
| 103 | 104.1 | 6.205 | 33.224 | 6.05 | 0.06 | 26.124 | 0.219 | 1475. | 1.9 | |
| 105 | 105.9 | 6.213 | 33.229 | 6.05 | 0.06 | 26.127 | 0.223 | 1475. | 2.0 | |
| 107 | 107.9 | 6.216 | 33.231 | 6.07 | 0.06 | 26.128 | 0.227 | 1475. | 2.2 | |
| 109 | 110.0 | 6.222 | 33.236 | 6.16 | 0.06 | 26.131 | 0.231 | 1475. | 2.3 | |
| 111 | 112.1 | 6.227 | 33.244 | 6.17 | 0.06 | 26.137 | 0.235 | 1475. | 2.7 | |
| 113 | 113.8 | 6.230 | 33.246 | 6.16 | 0.06 | 26.138 | 0.238 | 1475. | 3.5 | |
| 115 | 116.1 | 6.272 | 33.258 | 6.13 | 0.06 | 26.142 | 0.242 | 1476. | 4.3 | |
| 117 | 118.0 | 6.314 | 33.275 | 5.98 | 0.06 | 26.150 | 0.246 | 1476. | 4.9 | |
| 119 | 119.8 | 6.404 | 33.313 | 5.66 | 0.06 | 26.169 | 0.249 | 1476. | 5.4 | |
| 121 | 122.1 | 6.579 | 33.387 | 5.58 | 0.06 | 26.205 | 0.253 | 1477. | 5.8 | |
| 123 | 123.9 | 6.685 | 33.438 | 5.52 | 0.07 | 26.231 | 0.256 | 1477. | 6.2 | |
| 125 | 126.2 | 6.787 | 33.479 | 5.44 | 0.07 | 26.250 | 0.261 | 1478. | 6.4 | |
| 127 | 127.9 | 6.895 | 33.524 | 5.37 | 0.07 | 26.271 | 0.264 | 1478. | 6.4 | |
| 129 | 130.0 | 6.965 | 33.569 | 5.31 | 0.07 | 26.297 | 0.267 | 1479. | 6.7 | |
| 131 | 132.0 | 7.007 | 33.630 | 5.26 | 0.07 | 26.339 | 0.271 | 1479. | 7.2 | |
| 133 | 134.0 | 7.039 | 33.673 | 5.21 | 0.07 | 26.368 | 0.274 | 1479. | 7.9 | |
| 135 | 136.0 | 7.064 | 33.694 | 5.18 | 0.07 | 26.382 | 0.277 | 1479. | 8.9 | |
| 137 | 137.8 | 7.166 | 33.792 | 5.13 | 0.07 | 26.444 | 0.280 | 1480. | 9.6 | |
| 139 | 140.0 | 7.265 | 33.894 | 5.10 | 0.07 | 26.511 | 0.284 | 1481. | 9.7 | |
| 141 | 142.0 | 7.331 | 33.982 | 5.04 | 0.07 | 26.571 | 0.287 | 1481. | 9.5 | |
| 143 | 144.1 | 7.488 | 34.196 | 4.94 | 0.08 | 26.717 | 0.290 | 1482. | 9.0 | |
| 145 | 145.7 | 7.516 | 34.241 | 4.91 | 0.08 | 26.749 | 0.292 | 1482. | 7.8 | |
| 147 | 148.1 | 7.523 | 34.251 | 4.91 | 0.08 | 26.756 | 0.295 | 1482. | 6.5 | |
| 149 | 150.1 | 7.516 | 34.250 | 4.92 | 0.08 | 26.755 | 0.298 | 1482. | 4.8 | |
| 151 | 152.0 | 7.520 | 34.253 | 4.92 | 0.08 | 26.757 | 0.300 | 1482. | 2.4 | |
| 153 | 154.3 | 7.527 | 34.254 | 4.91 | 0.08 | 26.757 | 0.303 | 1482. | 1.4 | |
| 155 | 155.8 | 7.532 | 34.256 | 4.90 | 0.08 | 26.758 | 0.305 | 1482. | 1.2 | |
| 157 | 158.1 | 7.530 | 34.257 | 4.90 | 0.08 | 26.759 | 0.308 | 1482. | 1.5 | |
| 158 | 159.8 | 7.524 | 34.259 | 4.90 | 0.08 | 26.761 | 0.310 | 1482. | 1.9 | |
| 161 | 162.0 | 7.525 | 34.258 | 4.89 | 0.08 | 26.761 | 0.313 | 1482. | 2.3 | |
| 163 | 164.2 | 7.527 | 34.260 | 4.89 | 0.08 | 26.762 | 0.316 | 1482. | 2.7 | |
| 164 | 165.8 | 7.529 | 34.270 | 4.88 | 0.08 | 26.770 | 0.318 | 1482. | 3.8 | |
| 167 | 168.2 | 7.518 | 34.280 | 4.88 | 0.08 | 26.779 | 0.321 | 1483. | 4.6 | |
| 169 | 170.1 | 7.504 | 34.284 | 4.89 | 0.08 | 26.784 | 0.324 | 1482. | 5.2 | |
| 171 | 172.1 | 7.471 | 34.296 | 4.93 | 0.08 | 26.798 | 0.326 | 1482. | 5.8 | |
| 172 | 173.9 | 7.367 | 34.350 | 5.02 | 0.07 | 26.855 | 0.328 | 1482. | 6.3 | |
| 174 | 175.9 | 7.346 | 34.367 | 5.03 | 0.07 | 26.872 | 0.331 | 1482. | 7.3 | |
| 177 | 178.1 | 7.329 | 34.386 | 5.03 | 0.07 | 26.889 | 0.333 | 1482. | 8.3 | |
| 178 | 179.7 | 7.294 | 34.423 | 4.80 | 0.07 | 26.924 | 0.335 | 1482. | 9.6 | |
| 181 | 182.1 | 7.253 | 34.468 | 4.67 | 0.07 | 26.965 | 0.338 | 1482. | 10.4 | |
| 182 | 183.9 | 7.148 | 34.583 | 4.69 | 0.06 | 27.070 | 0.340 | 1482. | 11.0 | |
| 184 | 186.0 | 7.064 | 34.690 | 4.70 | 0.05 | 27.166 | 0.342 | 1482. | 11.2 | |
| 187 | 188.1 | 6.791 | 34.850 | 4.76 | 0.05 | 27.330 | 0.344 | 1481. | 11.1 | |
| 188 | 190.0 | 6.693 | 34.890 | 4.78 | 0.05 | 27.375 | 0.345 | 1480. | 10.6 | |
| 190 | 192.0 | 6.615 | 34.922 | 4.79 | 0.05 | 27.410 | 0.346 | 1480. | 9.4 | |
| 192 | 193.2 | 6.607 | 34.926 | 4.79 | 0.05 | 27.415 | 0.347 | 1480. | 7.8 | |
| 192 | 193.9 | 6.606 | 34.927 | 4.79 | 0.05 | 27.415 | 0.348 | 1480. | 5.2 | |
| 193 | 194.9 | 6.609 | 34.926 | 4.78 | 0.05 | 27.414 | 0.348 | 1480. | 4.0 | |
| 194 | 196.0 | 6.600 | 34.930 | 4.77 | 0.05 | 27.419 | 0.349 | 1480. | 3.2 | |

| SHIP OC | CRUISE 181 | STATION 82 | DATE 13 FEB 1987 | | EST 1552 | LATITUDE 42°08.1'N | LONGITUDE 66°05.1'W | DEPTH 211 | | | |
|------------|---------------|---------------|---------------------|-------------|------------------------|----------------------------|--|--------------|----------|--|--|
| DEPTH m | PRESS dbar | TEMP °C | SALIN psu | OXY ml/l | ATN m ⁻¹ | SIGT gm/cm ³ | DYHT A 10m ² /s ² | S SPD m/s | N cph | | |
| 195 | 197.0 | 6.596 | 34.932 | 4.77 | 0.05 | 27.421 | 0.350 | 1480. | 3.2 | | |
| 196 | 198.0 | 6.590 | 34.936 | 4.77 | 0.05 | 27.425 | 0.351 | 1480. | 3.2 | | |
| 197 | 199.1 | 6.575 | 34.946 | 4.75 | 0.05 | 27.435 | 0.351 | 1480. | 3.2 | | |
| 198 | 200.0 | 6.574 | 34.947 | 4.74 | 0.05 | 27.436 | 0.352 | 1480. | 3.2 | | |
| 199 | 201.0 | 6.574 | 34.947 | 4.71 | 0.05 | 27.435 | 0.353 | 1480. | 3.2 | | |
| 200 | 201.9 | 6.578 | 34.946 | 4.71 | 0.05 | 27.435 | 0.353 | 1480. | 3.2 | | |

| SHIP OC | CRUISE 181 | STATION 83 | DATE 13 FEB 1987 | | | EST 1715 | LATITUDE 42°01.8'N | LONGITUDE 66°11.6'W | DEPTH 93 | | |
|---------|------------|------------|------------------|----------|---------------------|-------------------------|---|---------------------|----------|--|--|
| DEPTH m | PRESS dbar | TEMP °C | SALIN psu | OXY ml/l | ATN m ⁻¹ | SIGT gm/cm ³ | DYHT A 10m ² /s ² | S SPD m/s | N cph | | |
| 2 | 2.5 | 3.120 | 31.993 | 6.46 | 0.12 | 25.475 | 0.000 | 1459. | 1.8 | | |
| 4 | 3.8 | 3.127 | 31.991 | 6.42 | 0.12 | 25.473 | 0.003 | 1459. | 1.8 | | |
| 6 | 5.9 | 3.142 | 31.998 | 6.43 | 0.12 | 25.477 | 0.009 | 1459. | 1.8 | | |
| 8 | 8.0 | 3.136 | 31.994 | 6.43 | 0.11 | 25.474 | 0.014 | 1459. | 1.8 | | |
| 10 | 9.9 | 3.152 | 32.000 | 6.42 | 0.11 | 25.478 | 0.019 | 1459. | 1.8 | | |
| 12 | 11.9 | 3.164 | 32.004 | 6.42 | 0.11 | 25.480 | 0.024 | 1459. | 2.3 | | |
| 14 | 13.8 | 3.175 | 32.008 | 6.41 | 0.11 | 25.483 | 0.028 | 1459. | 2.7 | | |
| 16 | 16.2 | 3.189 | 32.016 | 6.42 | 0.11 | 25.487 | 0.034 | 1460. | 3.2 | | |
| 18 | 17.9 | 3.196 | 32.018 | 6.42 | 0.11 | 25.489 | 0.038 | 1460. | 3.7 | | |
| 20 | 19.9 | 3.255 | 32.050 | 6.41 | 0.11 | 25.509 | 0.043 | 1460. | 4.3 | | |
| 22 | 22.2 | 3.297 | 32.060 | 6.40 | 0.10 | 25.513 | 0.049 | 1460. | 5.0 | | |
| 24 | 23.9 | 3.351 | 32.086 | 6.38 | 0.10 | 25.529 | 0.053 | 1461. | 6.0 | | |
| 26 | 26.1 | 3.449 | 32.126 | 6.36 | 0.10 | 25.552 | 0.059 | 1461. | 6.7 | | |
| 28 | 27.9 | 3.535 | 32.164 | 6.33 | 0.10 | 25.574 | 0.063 | 1461. | 7.5 | | |
| 30 | 29.9 | 3.673 | 32.233 | 6.29 | 0.10 | 25.617 | 0.068 | 1462. | 8.0 | | |
| 32 | 32.1 | 3.942 | 32.357 | 6.19 | 0.10 | 25.690 | 0.073 | 1463. | 8.1 | | |
| 33 | 33.7 | 4.114 | 32.413 | 6.13 | 0.09 | 25.717 | 0.076 | 1464. | 7.9 | | |
| 36 | 36.2 | 4.402 | 32.542 | 6.05 | 0.09 | 25.791 | 0.082 | 1466. | 7.5 | | |
| 37 | 37.8 | 4.493 | 32.569 | 6.01 | 0.08 | 25.803 | 0.085 | 1466. | 6.9 | | |
| 40 | 40.2 | 4.590 | 32.614 | 5.99 | 0.08 | 25.828 | 0.091 | 1467. | 6.6 | | |
| 42 | 42.1 | 4.649 | 32.637 | 5.96 | 0.09 | 25.841 | 0.095 | 1467. | 7.0 | | |
| 44 | 44.0 | 4.686 | 32.656 | 5.94 | 0.08 | 25.851 | 0.099 | 1467. | 7.3 | | |
| 45 | 45.8 | 4.769 | 32.705 | 5.92 | 0.08 | 25.881 | 0.103 | 1468. | 7.8 | | |
| 48 | 48.1 | 5.024 | 32.817 | 5.84 | 0.08 | 25.942 | 0.108 | 1469. | 7.9 | | |
| 50 | 50.1 | 5.315 | 32.966 | 5.75 | 0.08 | 26.027 | 0.112 | 1470. | 7.8 | | |
| 52 | 52.1 | 5.551 | 33.044 | 5.68 | 0.08 | 26.061 | 0.115 | 1471. | 7.4 | | |
| 53 | 53.9 | 5.661 | 33.092 | 5.65 | 0.08 | 26.087 | 0.119 | 1472. | 6.6 | | |
| 56 | 56.0 | 5.734 | 33.115 | 5.62 | 0.08 | 26.096 | 0.123 | 1472. | 5.5 | | |
| 58 | 58.1 | 5.761 | 33.128 | 5.60 | 0.08 | 26.103 | 0.127 | 1472. | 4.3 | | |
| 59 | 59.7 | 5.790 | 33.142 | 5.58 | 0.08 | 26.111 | 0.130 | 1473. | 3.7 | | |
| 62 | 62.3 | 5.838 | 33.167 | 5.58 | 0.08 | 26.125 | 0.135 | 1473. | 3.2 | | |
| 63 | 63.9 | 5.870 | 33.179 | 5.56 | 0.08 | 26.130 | 0.138 | 1473. | 3.0 | | |
| 65 | 66.0 | 5.885 | 33.185 | 5.55 | 0.08 | 26.133 | 0.142 | 1473. | 2.6 | | |
| 67 | 67.9 | 5.897 | 33.188 | 5.56 | 0.07 | 26.134 | 0.145 | 1473. | 2.2 | | |
| 70 | 70.3 | 5.904 | 33.192 | 5.57 | 0.08 | 26.136 | 0.150 | 1473. | 1.8 | | |
| 71 | 71.8 | 5.913 | 33.198 | 5.56 | 0.08 | 26.140 | 0.153 | 1473. | 1.6 | | |
| 74 | 74.2 | 5.915 | 33.198 | 5.57 | 0.07 | 26.140 | 0.157 | 1473. | 1.4 | | |
| 75 | 75.2 | 5.913 | 33.196 | 5.56 | 0.07 | 26.138 | 0.159 | 1473. | 1.3 | | |
| 75 | 75.9 | 5.915 | 33.197 | 5.57 | 0.08 | 26.139 | 0.161 | 1473. | 1.2 | | |
| 77 | 77.2 | 5.917 | 33.200 | 5.57 | 0.07 | 26.141 | 0.163 | 1473. | 1.1 | | |
| 77 | 77.9 | 5.921 | 33.200 | 5.57 | 0.07 | 26.141 | 0.164 | 1473. | 1.4 | | |
| 78 | 79.0 | 5.922 | 33.201 | 5.57 | 0.07 | 26.141 | 0.166 | 1473. | 1.5 | | |
| 79 | 79.9 | 5.925 | 33.203 | 5.57 | 0.07 | 26.142 | 0.168 | 1473. | 1.5 | | |
| 80 | 81.0 | 5.927 | 33.204 | 5.58 | 0.07 | 26.143 | 0.170 | 1474. | 1.3 | | |
| 81 | 81.9 | 5.928 | 33.205 | 5.57 | 0.07 | 26.143 | 0.172 | 1474. | 1.3 | | |
| 82 | 83.0 | 5.932 | 33.207 | 5.58 | 0.08 | 26.144 | 0.174 | 1474. | 1.3 | | |
| 83 | 84.0 | 5.932 | 33.206 | 5.58 | 0.07 | 26.144 | 0.176 | 1474. | 1.3 | | |
| 84 | 85.0 | 5.934 | 33.206 | 5.58 | 0.08 | 26.144 | 0.178 | 1474. | 1.3 | | |
| 85 | 85.7 | 5.932 | 33.207 | 5.58 | 0.08 | 26.144 | 0.179 | 1474. | 1.3 | | |

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| SHIP OC | CRUISE 181 | STATION 84 | DATE 13 FEB 1987 | | | EST 2059 | LATITUDE 42°24.5'N | LONGITUDE 66°20.4'W | DEPTH 260 | | |
|---------|------------|------------|------------------|----------|---------------------|-------------------------|---|---------------------|-----------|--|--|
| DEPTH m | PRESS dbar | TEMP °C | SALIN psu | OXY ml/l | ATN m ⁻¹ | SIGT gm/cm ³ | DYHT A 10m ² /s ² | S SPD m/s | N cph | | |
| 4 | 4.0 | 2.539 | 31.609 | 7.47 | 0.11 | 25.216 | 0.000 | 1456. | 0.8 | | |
| 6 | 6.1 | 2.538 | 31.608 | 7.46 | 0.11 | 25.216 | 0.006 | 1456. | 0.8 | | |
| 8 | 7.9 | 2.540 | 31.609 | 7.47 | 0.11 | 25.216 | 0.011 | 1456. | 0.8 | | |
| 10 | 10.0 | 2.539 | 31.611 | 7.46 | 0.11 | 25.217 | 0.017 | 1456. | 0.8 | | |
| 12 | 12.1 | 2.549 | 31.613 | 7.46 | 0.11 | 25.219 | 0.022 | 1456. | 0.8 | | |
| 14 | 14.0 | 2.556 | 31.614 | 7.47 | 0.11 | 25.219 | 0.027 | 1456. | 1.1 | | |
| 16 | 16.0 | 2.557 | 31.614 | 7.47 | 0.11 | 25.219 | 0.033 | 1456. | 1.2 | | |
| 18 | 18.0 | 2.561 | 31.615 | 7.46 | 0.11 | 25.219 | 0.039 | 1456. | 1.4 | | |
| 20 | 20.0 | 2.554 | 31.612 | 7.46 | 0.11 | 25.217 | 0.044 | 1456. | 2.6 | | |
| 22 | 21.9 | 2.592 | 31.627 | 7.44 | 0.11 | 25.226 | 0.049 | 1457. | 4.1 | | |
| 24 | 24.0 | 2.580 | 31.621 | 7.43 | 0.11 | 25.223 | 0.055 | 1457. | 5.0 | | |
| 26 | 26.0 | 2.618 | 31.634 | 7.42 | 0.11 | 25.230 | 0.060 | 1457. | 5.8 | | |
| 28 | 28.0 | 2.767 | 31.703 | 7.37 | 0.11 | 25.273 | 0.066 | 1458. | 6.3 | | |
| 30 | 30.0 | 2.871 | 31.790 | 7.32 | 0.11 | 25.334 | 0.071 | 1458. | 6.4 | | |
| 32 | 32.0 | 2.906 | 31.806 | 7.31 | 0.11 | 25.344 | 0.076 | 1458. | 6.4 | | |
| 34 | 34.0 | 2.981 | 31.854 | 7.26 | 0.10 | 25.376 | 0.082 | 1459. | 5.8 | | |
| 36 | 36.0 | 3.013 | 31.879 | 7.26 | 0.10 | 25.393 | 0.087 | 1459. | 4.9 | | |
| 38 | 37.9 | 3.029 | 31.894 | 7.25 | 0.10 | 25.404 | 0.092 | 1459. | 4.0 | | |
| 40 | 40.0 | 3.031 | 31.895 | 7.24 | 0.10 | 25.405 | 0.097 | 1459. | 3.5 | | |
| 42 | 42.0 | 3.035 | 31.897 | 7.23 | 0.10 | 25.406 | 0.102 | 1459. | 2.9 | | |
| 44 | 44.0 | 3.049 | 31.903 | 7.23 | 0.10 | 25.410 | 0.107 | 1459. | 2.7 | | |
| 46 | 46.0 | 3.059 | 31.912 | 7.23 | 0.09 | 25.416 | 0.112 | 1459. | 2.7 | | |
| 47 | 47.8 | 3.086 | 31.925 | 7.22 | 0.09 | 25.424 | 0.117 | 1460. | 3.1 | | |
| 50 | 50.0 | 3.095 | 31.931 | 7.21 | 0.09 | 25.428 | 0.123 | 1460. | 3.1 | | |
| 51 | 51.8 | 3.105 | 31.936 | 7.21 | 0.09 | 25.431 | 0.127 | 1460. | 3.2 | | |
| 54 | 54.3 | 3.130 | 31.951 | 7.22 | 0.09 | 25.441 | 0.134 | 1460. | 3.2 | | |
| 55 | 55.8 | 3.157 | 31.976 | 7.20 | 0.09 | 25.458 | 0.137 | 1460. | 3.0 | | |
| 57 | 57.8 | 3.170 | 31.966 | 7.19 | 0.09 | 25.449 | 0.142 | 1460. | 3.4 | | |
| 59 | 59.9 | 3.179 | 31.981 | 7.19 | 0.09 | 25.460 | 0.148 | 1460. | 3.7 | | |
| 61 | 61.9 | 3.209 | 31.992 | 7.17 | 0.09 | 25.466 | 0.153 | 1460. | 3.8 | | |
| 63 | 64.0 | 3.227 | 31.991 | 7.17 | 0.09 | 25.465 | 0.158 | 1461. | 4.7 | | |
| 65 | 65.9 | 3.377 | 32.052 | 7.12 | 0.09 | 25.499 | 0.163 | 1461. | 5.7 | | |
| 67 | 68.0 | 3.364 | 32.062 | 7.12 | 0.09 | 25.509 | 0.168 | 1461. | 7.2 | | |
| 70 | 70.1 | 3.416 | 32.079 | 7.10 | 0.09 | 25.518 | 0.173 | 1462. | 8.9 | | |
| 71 | 72.1 | 3.586 | 32.193 | 7.03 | 0.09 | 25.593 | 0.178 | 1462. | 9.7 | | |
| 73 | 74.0 | 3.996 | 32.281 | 6.87 | 0.08 | 25.624 | 0.182 | 1464. | 10.1 | | |
| 76 | 76.3 | 4.681 | 32.565 | 6.62 | 0.07 | 25.780 | 0.188 | 1468. | 10.3 | | |
| 77 | 77.8 | 4.919 | 32.766 | 6.53 | 0.07 | 25.913 | 0.191 | 1469. | 10.0 | | |
| 79 | 80.1 | 5.081 | 32.777 | 6.46 | 0.07 | 25.904 | 0.196 | 1470. | 9.3 | | |
| 81 | 82.0 | 5.211 | 32.831 | 6.41 | 0.07 | 25.932 | 0.200 | 1470. | 8.3 | | |
| 83 | 84.0 | 5.473 | 32.930 | 6.32 | 0.06 | 25.980 | 0.204 | 1471. | 6.5 | | |
| 86 | 86.3 | 5.574 | 32.990 | 6.28 | 0.06 | 26.016 | 0.208 | 1472. | 5.2 | | |
| 87 | 87.7 | 5.612 | 33.004 | 6.25 | 0.06 | 26.023 | 0.211 | 1472. | 4.7 | | |
| 89 | 90.0 | 5.611 | 33.006 | 6.23 | 0.06 | 26.024 | 0.216 | 1472. | 3.7 | | |
| 91 | 92.0 | 5.612 | 33.005 | 6.22 | 0.06 | 26.024 | 0.220 | 1472. | 2.6 | | |
| 93 | 93.9 | 5.612 | 33.005 | 6.22 | 0.06 | 26.024 | 0.223 | 1472. | 2.0 | | |
| 95 | 96.2 | 5.631 | 33.009 | 6.21 | 0.06 | 26.025 | 0.228 | 1472. | 2.4 | | |
| 97 | 97.7 | 5.795 | 33.038 | 6.16 | 0.05 | 26.028 | 0.231 | 1473. | 3.0 | | |
| 99 | 100.2 | 6.030 | 33.087 | 6.10 | 0.05 | 26.038 | 0.236 | 1474. | 3.3 | | |
| 101 | 102.1 | 6.248 | 33.129 | 5.80 | 0.04 | 26.044 | 0.240 | 1475. | 3.7 | | |

| SHIP OC | CRUISE 181 | STATION 84 | DATE 13 FEB 1987 | | | EST 2059 | LATITUDE 42°24.5'N | LONGITUDE 66°20.4'W | DEPTH 260 | | |
|---------|------------|------------|------------------|----------|---------------------|-------------------------|---|---------------------|-----------|--|--|
| DEPTH m | PRESS dbar | TEMP °C | SALIN psu | OXY ml/l | ATN m ⁻¹ | SIGT gm/cm ³ | DYHT A 10m ² /s ² | S SPD m/s | N cph | | |
| 103 | 103.8 | 6.464 | 33.184 | 5.61 | 0.04 | 26.059 | 0.243 | 1476. | 4.0 | | |
| 105 | 106.1 | 6.588 | 33.220 | 5.56 | 0.04 | 26.072 | 0.247 | 1477. | 4.0 | | |
| 107 | 108.1 | 6.734 | 33.253 | 5.51 | 0.04 | 26.079 | 0.251 | 1477. | 4.0 | | |
| 109 | 110.0 | 6.729 | 33.266 | 5.52 | 0.04 | 26.089 | 0.255 | 1477. | 3.8 | | |
| 111 | 111.9 | 6.798 | 33.299 | 5.49 | 0.04 | 26.106 | 0.259 | 1478. | 3.4 | | |
| 113 | 114.0 | 6.884 | 33.319 | 5.47 | 0.04 | 26.111 | 0.263 | 1478. | 3.2 | | |
| 115 | 116.0 | 6.969 | 33.335 | 5.43 | 0.04 | 26.112 | 0.266 | 1478. | 2.8 | | |
| 117 | 117.9 | 6.970 | 33.339 | 5.42 | 0.04 | 26.115 | 0.270 | 1478. | 2.4 | | |
| 119 | 120.2 | 6.917 | 33.336 | 5.41 | 0.04 | 26.120 | 0.274 | 1478. | 2.3 | | |
| 121 | 121.8 | 6.858 | 33.329 | 5.40 | 0.05 | 26.122 | 0.277 | 1478. | 2.4 | | |
| 123 | 124.0 | 6.835 | 33.323 | 5.38 | 0.05 | 26.120 | 0.282 | 1478. | 2.8 | | |
| 125 | 126.1 | 6.749 | 33.317 | 5.39 | 0.05 | 26.127 | 0.286 | 1478. | 3.2 | | |
| 127 | 128.0 | 6.832 | 33.343 | 5.33 | 0.05 | 26.137 | 0.289 | 1478. | 3.6 | | |
| 129 | 130.0 | 6.803 | 33.343 | 5.29 | 0.05 | 26.141 | 0.293 | 1478. | 4.4 | | |
| 131 | 132.0 | 6.822 | 33.366 | 5.25 | 0.05 | 26.156 | 0.297 | 1478. | 5.4 | | |
| 133 | 134.0 | 6.746 | 33.373 | 5.26 | 0.05 | 26.171 | 0.300 | 1478. | 5.9 | | |
| 135 | 136.1 | 7.061 | 33.439 | 5.17 | 0.05 | 26.181 | 0.304 | 1479. | 6.2 | | |
| 137 | 138.0 | 7.271 | 33.542 | 5.11 | 0.05 | 26.234 | 0.308 | 1480. | 6.4 | | |
| 139 | 139.9 | 7.439 | 33.639 | 5.06 | 0.05 | 26.286 | 0.311 | 1481. | 6.2 | | |
| 141 | 142.0 | 7.549 | 33.669 | 5.03 | 0.05 | 26.294 | 0.315 | 1481. | 6.0 | | |
| 143 | 144.1 | 7.655 | 33.716 | 5.00 | 0.05 | 26.316 | 0.318 | 1482. | 5.9 | | |
| 145 | 146.0 | 7.725 | 33.741 | 4.97 | 0.05 | 26.326 | 0.322 | 1482. | 5.6 | | |
| 147 | 148.1 | 7.740 | 33.754 | 4.96 | 0.04 | 26.333 | 0.325 | 1482. | 5.7 | | |
| 149 | 150.0 | 7.793 | 33.785 | 4.94 | 0.04 | 26.351 | 0.328 | 1483. | 6.5 | | |
| 151 | 151.8 | 7.922 | 33.861 | 4.91 | 0.04 | 26.391 | 0.331 | 1483. | 6.7 | | |
| 153 | 154.0 | 8.194 | 33.952 | 4.84 | 0.04 | 26.422 | 0.335 | 1484. | 7.2 | | |
| 155 | 156.1 | 8.369 | 34.038 | 4.79 | 0.04 | 26.463 | 0.338 | 1485. | 7.7 | | |
| 156 | 157.7 | 8.470 | 34.140 | 4.76 | 0.04 | 26.528 | 0.341 | 1486. | 7.8 | | |
| 159 | 159.9 | 8.518 | 34.127 | 4.74 | 0.04 | 26.510 | 0.344 | 1486. | 7.7 | | |
| 161 | 162.0 | 8.575 | 34.234 | 4.72 | 0.04 | 26.585 | 0.347 | 1486. | 7.4 | | |
| 163 | 164.0 | 8.507 | 34.288 | 4.74 | 0.04 | 26.638 | 0.350 | 1486. | 6.8 | | |
| 165 | 166.2 | 8.440 | 34.305 | 4.75 | 0.04 | 26.662 | 0.353 | 1486. | 6.1 | | |
| 166 | 167.8 | 8.402 | 34.317 | 4.76 | 0.04 | 26.677 | 0.356 | 1486. | 5.8 | | |
| 169 | 170.0 | 8.399 | 34.318 | 4.76 | 0.04 | 26.678 | 0.359 | 1486. | 4.7 | | |
| 171 | 172.0 | 8.402 | 34.331 | 4.63 | 0.04 | 26.688 | 0.361 | 1486. | 3.9 | | |
| 173 | 174.2 | 8.404 | 34.344 | 4.42 | 0.04 | 26.698 | 0.364 | 1486. | 3.6 | | |
| 174 | 175.9 | 8.422 | 34.365 | 4.41 | 0.04 | 26.711 | 0.367 | 1486. | 3.9 | | |
| 177 | 178.0 | 8.431 | 34.370 | 4.41 | 0.04 | 26.715 | 0.370 | 1486. | 5.3 | | |
| 178 | 179.9 | 8.452 | 34.378 | 4.40 | 0.04 | 26.718 | 0.372 | 1486. | 7.2 | | |
| 181 | 182.1 | 8.486 | 34.402 | 4.39 | 0.04 | 26.731 | 0.375 | 1487. | 8.4 | | |
| 183 | 184.2 | 8.489 | 34.448 | 4.38 | 0.04 | 26.766 | 0.378 | 1487. | 9.3 | | |
| 184 | 185.9 | 8.284 | 34.536 | 4.41 | 0.03 | 26.867 | 0.380 | 1486. | 10.2 | | |
| 186 | 188.0 | 7.947 | 34.665 | 4.48 | 0.03 | 27.019 | 0.382 | 1485. | 10.7 | | |
| 188 | 190.1 | 7.825 | 34.678 | 4.50 | 0.03 | 27.047 | 0.385 | 1485. | 10.6 | | |
| 190 | 192.1 | 7.589 | 34.711 | 4.55 | 0.03 | 27.108 | 0.387 | 1484. | 10.3 | | |
| 193 | 194.3 | 7.299 | 34.764 | 4.61 | 0.02 | 27.191 | 0.389 | 1483. | 9.7 | | |
| 194 | 195.9 | 7.157 | 34.798 | 4.63 | 0.02 | 27.238 | 0.390 | 1482. | 8.8 | | |
| 196 | 198.0 | 7.060 | 34.794 | 4.65 | 0.02 | 27.248 | 0.392 | 1482. | 8.5 | | |
| 198 | 199.9 | 6.756 | 34.846 | 4.68 | 0.02 | 27.331 | 0.393 | 1481. | 8.0 | | |
| 200 | 202.0 | 6.544 | 34.866 | 4.73 | 0.02 | 27.376 | 0.395 | 1480. | 7.5 | | |

| SHIP OC | CRUISE 181 | STATION 84 | DATE 13 FEB 1987 | | | EST 2059 | LATITUDE 42°24.5'N | LONGITUDE 66°20.4'W | DEPTH 260 | | |
|---------|------------|------------|------------------|----------|---------------------|-------------------------|---|---------------------|-----------|--|--|
| DEPTH m | PRESS dbar | TEMP °C | SALIN psu | OXY ml/l | ATN m ⁻¹ | SIGT gm/cm ³ | DYHT A 10m ² /s ² | S SPD m/s | N cph | | |
| 202 | 204.0 | 6.538 | 34.861 | 4.74 | 0.02 | 27.373 | 0.396 | 1480. | 7.1 | | |
| 204 | 206.0 | 6.433 | 34.877 | 4.77 | 0.02 | 27.399 | 0.398 | 1480. | 6.7 | | |
| 206 | 207.9 | 6.278 | 34.914 | 4.81 | 0.02 | 27.449 | 0.399 | 1479. | 5.9 | | |
| 208 | 210.0 | 6.170 | 34.922 | 4.84 | 0.02 | 27.469 | 0.400 | 1479. | 5.4 | | |
| 210 | 212.1 | 6.122 | 34.926 | 4.85 | 0.02 | 27.479 | 0.402 | 1479. | 5.0 | | |
| 212 | 213.9 | 6.057 | 34.936 | 4.87 | 0.02 | 27.495 | 0.403 | 1478. | 4.2 | | |
| 214 | 215.9 | 6.050 | 34.936 | 4.87 | 0.02 | 27.496 | 0.404 | 1478. | 3.3 | | |
| 216 | 218.0 | 6.044 | 34.936 | 4.87 | 0.02 | 27.497 | 0.405 | 1478. | 2.8 | | |
| 218 | 220.0 | 6.022 | 34.940 | 4.87 | 0.02 | 27.502 | 0.407 | 1478. | 2.5 | | |
| 220 | 222.2 | 6.007 | 34.943 | 4.87 | 0.02 | 27.507 | 0.408 | 1478. | 2.0 | | |
| 222 | 224.0 | 5.990 | 34.947 | 4.88 | 0.03 | 27.513 | 0.409 | 1478. | 1.8 | | |
| 224 | 226.0 | 5.993 | 34.947 | 4.88 | 0.03 | 27.512 | 0.410 | 1478. | 1.6 | | |
| 226 | 227.9 | 5.997 | 34.946 | 4.88 | 0.03 | 27.511 | 0.411 | 1478. | 1.2 | | |
| 228 | 230.0 | 5.995 | 34.947 | 4.88 | 0.03 | 27.511 | 0.413 | 1478. | 0.7 | | |
| 230 | 232.1 | 5.996 | 34.946 | 4.88 | 0.03 | 27.511 | 0.414 | 1478. | 0.4 | | |
| 232 | 234.2 | 5.993 | 34.947 | 4.88 | 0.03 | 27.512 | 0.415 | 1478. | 0.5 | | |
| 234 | 236.1 | 5.994 | 34.948 | 4.88 | 0.03 | 27.512 | 0.416 | 1479. | 0.5 | | |
| 236 | 238.0 | 5.995 | 34.947 | 4.88 | 0.03 | 27.512 | 0.417 | 1479. | 0.5 | | |
| 238 | 239.9 | 5.995 | 34.948 | 4.88 | 0.03 | 27.513 | 0.419 | 1479. | 0.5 | | |
| 240 | 242.0 | 5.995 | 34.947 | 4.88 | 0.03 | 27.512 | 0.420 | 1479. | 0.4 | | |
| 241 | 243.2 | 5.995 | 34.947 | 4.88 | 0.03 | 27.512 | 0.420 | 1479. | 0.6 | | |
| 242 | 244.0 | 5.994 | 34.948 | 4.88 | 0.03 | 27.513 | 0.421 | 1479. | 0.7 | | |
| 243 | 245.0 | 5.993 | 34.948 | 4.88 | 0.03 | 27.513 | 0.422 | 1479. | 0.8 | | |
| 244 | 246.1 | 5.993 | 34.948 | 4.88 | 0.03 | 27.513 | 0.422 | 1479. | 0.9 | | |
| 245 | 247.0 | 5.991 | 34.949 | 4.88 | 0.03 | 27.514 | 0.423 | 1479. | 0.8 | | |
| 246 | 248.0 | 5.991 | 34.949 | 4.88 | 0.03 | 27.513 | 0.423 | 1479. | 0.5 | | |
| 247 | 249.1 | 5.992 | 34.949 | 4.88 | 0.03 | 27.513 | 0.424 | 1479. | 0.2 | | |
| 248 | 250.0 | 5.993 | 34.949 | 4.89 | 0.03 | 27.513 | 0.425 | 1479. | 0.2 | | |
| 249 | 251.0 | 5.994 | 34.949 | 4.89 | 0.03 | 27.513 | 0.425 | 1479. | 0.2 | | |
| 250 | 252.1 | 5.994 | 34.948 | 4.89 | 0.03 | 27.513 | 0.426 | 1479. | 0.2 | | |
| 251 | 252.9 | 5.995 | 34.948 | 4.88 | 0.03 | 27.513 | 0.426 | 1479. | 0.2 | | |

SHIP CRUISE STATION DATE EST LATITUDE LONGITUDE DEPTH
 OC 181 85 14 FEB 1987 0051 42°27.6'N 66°47.0'W 335

| DEPTH | PRESS | TEMP | SALIN | OXY | ATN | SIGT | DYHT A | S SPD | N |
|-------|-------|-------|--------|------|-----------------|--------------------|----------------------------------|-------|------|
| m | dbar | °C | psu | ml/l | m ⁻¹ | gm/cm ³ | 10m ² /s ² | m/s | cph |
| 2 | 2.4 | 2.704 | 31.861 | 6.66 | 0.12 | 25.404 | 0.000 | 1457. | 4.1 |
| 4 | 3.7 | 2.704 | 31.862 | 6.73 | 0.12 | 25.405 | 0.003 | 1457. | 4.1 |
| 6 | 6.1 | 2.699 | 31.862 | 6.76 | 0.12 | 25.405 | 0.009 | 1457. | 4.1 |
| 8 | 8.1 | 2.686 | 31.859 | 6.78 | 0.12 | 25.404 | 0.015 | 1457. | 4.1 |
| 10 | 9.8 | 2.686 | 31.859 | 6.78 | 0.12 | 25.404 | 0.019 | 1457. | 4.1 |
| 12 | 12.1 | 2.689 | 31.860 | 6.79 | 0.12 | 25.404 | 0.025 | 1457. | 6.2 |
| 14 | 14.0 | 2.733 | 31.879 | 6.78 | 0.12 | 25.417 | 0.030 | 1457. | 8.1 |
| 16 | 16.0 | 2.839 | 31.921 | 6.73 | 0.12 | 25.441 | 0.035 | 1458. | 9.5 |
| 18 | 18.0 | 3.251 | 32.071 | 6.59 | 0.12 | 25.526 | 0.040 | 1460. | 10.1 |
| 20 | 20.0 | 3.648 | 32.294 | 6.45 | 0.12 | 25.668 | 0.045 | 1462. | 10.3 |
| 22 | 22.0 | 4.002 | 32.449 | 6.32 | 0.11 | 25.757 | 0.049 | 1464. | 10.0 |
| 24 | 24.1 | 4.331 | 32.586 | 6.21 | 0.10 | 25.833 | 0.054 | 1465. | 9.3 |
| 26 | 25.9 | 4.388 | 32.600 | 6.19 | 0.09 | 25.838 | 0.058 | 1466. | 8.2 |
| 28 | 28.2 | 4.453 | 32.621 | 6.18 | 0.09 | 25.848 | 0.062 | 1466. | 6.8 |
| 30 | 29.9 | 4.548 | 32.656 | 6.14 | 0.09 | 25.867 | 0.066 | 1466. | 5.8 |
| 32 | 32.3 | 4.833 | 32.748 | 6.06 | 0.08 | 25.909 | 0.071 | 1468. | 5.1 |
| 34 | 33.9 | 4.945 | 32.795 | 6.01 | 0.08 | 25.934 | 0.075 | 1468. | 5.0 |
| 36 | 36.3 | 4.955 | 32.799 | 6.01 | 0.08 | 25.936 | 0.079 | 1468. | 4.7 |
| 38 | 37.9 | 4.962 | 32.805 | 6.00 | 0.08 | 25.939 | 0.083 | 1468. | 4.2 |
| 40 | 40.1 | 4.986 | 32.816 | 5.99 | 0.08 | 25.946 | 0.087 | 1469. | 3.6 |
| 42 | 42.0 | 5.024 | 32.835 | 5.98 | 0.08 | 25.957 | 0.091 | 1469. | 3.2 |
| 44 | 44.0 | 5.054 | 32.853 | 5.98 | 0.08 | 25.967 | 0.095 | 1469. | 3.2 |
| 46 | 46.2 | 5.103 | 32.870 | 5.97 | 0.08 | 25.975 | 0.100 | 1469. | 3.1 |
| 47 | 47.8 | 5.120 | 32.874 | 5.96 | 0.08 | 25.977 | 0.103 | 1469. | 3.0 |
| 50 | 50.1 | 5.137 | 32.880 | 5.96 | 0.07 | 25.979 | 0.108 | 1469. | 2.9 |
| 51 | 51.8 | 5.152 | 32.885 | 5.95 | 0.07 | 25.982 | 0.111 | 1469. | 2.8 |
| 54 | 54.0 | 5.194 | 32.903 | 5.94 | 0.07 | 25.992 | 0.115 | 1470. | 2.7 |
| 55 | 55.9 | 5.233 | 32.916 | 5.92 | 0.07 | 25.997 | 0.119 | 1470. | 2.7 |
| 58 | 58.0 | 5.261 | 32.927 | 5.92 | 0.07 | 26.002 | 0.124 | 1470. | 2.7 |
| 60 | 60.1 | 5.282 | 32.934 | 5.91 | 0.07 | 26.006 | 0.128 | 1470. | 2.7 |
| 61 | 62.0 | 5.294 | 32.941 | 5.90 | 0.07 | 26.010 | 0.131 | 1470. | 2.8 |
| 63 | 64.0 | 5.304 | 32.945 | 5.89 | 0.07 | 26.012 | 0.135 | 1470. | 3.3 |
| 65 | 66.0 | 5.333 | 32.956 | 5.89 | 0.07 | 26.017 | 0.139 | 1471. | 3.6 |
| 67 | 67.9 | 5.371 | 32.971 | 5.89 | 0.07 | 26.024 | 0.143 | 1471. | 3.9 |
| 69 | 69.9 | 5.432 | 32.993 | 5.87 | 0.07 | 26.035 | 0.147 | 1471. | 4.1 |
| 71 | 71.9 | 5.567 | 33.048 | 5.82 | 0.07 | 26.062 | 0.151 | 1472. | 4.2 |
| 73 | 74.0 | 5.641 | 33.064 | 5.79 | 0.07 | 26.067 | 0.155 | 1472. | 4.0 |
| 75 | 76.0 | 5.705 | 33.093 | 5.76 | 0.07 | 26.082 | 0.159 | 1472. | 3.8 |
| 78 | 78.3 | 5.742 | 33.106 | 5.74 | 0.07 | 26.088 | 0.163 | 1473. | 3.4 |
| 79 | 79.9 | 5.770 | 33.116 | 5.72 | 0.07 | 26.092 | 0.167 | 1473. | 2.8 |
| 82 | 82.2 | 5.789 | 33.122 | 5.71 | 0.07 | 26.095 | 0.171 | 1473. | 2.5 |
| 83 | 83.7 | 5.800 | 33.126 | 5.71 | 0.07 | 26.097 | 0.174 | 1473. | 2.1 |
| 85 | 86.0 | 5.817 | 33.133 | 5.71 | 0.07 | 26.100 | 0.178 | 1473. | 2.4 |
| 87 | 88.0 | 5.827 | 33.138 | 5.69 | 0.07 | 26.102 | 0.182 | 1473. | 3.1 |
| 89 | 89.9 | 5.838 | 33.141 | 5.69 | 0.07 | 26.104 | 0.186 | 1473. | 3.5 |
| 92 | 92.4 | 5.861 | 33.149 | 5.67 | 0.07 | 26.107 | 0.190 | 1473. | 3.9 |
| 93 | 93.9 | 5.985 | 33.194 | 5.63 | 0.06 | 26.128 | 0.193 | 1474. | 4.4 |
| 95 | 96.2 | 6.234 | 33.269 | 5.54 | 0.06 | 26.156 | 0.198 | 1475. | 4.8 |
| 97 | 97.9 | 6.301 | 33.275 | 5.51 | 0.06 | 26.152 | 0.201 | 1475. | 5.0 |
| 99 | 100.0 | 6.360 | 33.311 | 5.48 | 0.06 | 26.173 | 0.205 | 1476. | 4.9 |

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SHIP CRUISE STATION DATE EST LATITUDE LONGITUDE DEPTH
 OC 181 85 14 FEB 1987 0051 42°27.6'N 66°47.0'W 335

| DEPTH | PRESS | TEMP | SALIN | OXY | ATN | SIGT | DYHT A | S SPD | N |
|-------|-------|-------|--------|------|-----------------|--------------------|----------------------------------|-------|-----|
| m | dbar | °C | psu | ml/l | m ⁻¹ | gm/cm ³ | 10m ² /s ² | m/s | cph |
| 101 | 102.1 | 6.486 | 33.361 | 5.41 | 0.07 | 26.196 | 0.208 | 1476. | 4.7 |
| 103 | 103.9 | 6.604 | 33.408 | 5.36 | 0.07 | 26.218 | 0.212 | 1477. | 4.6 |
| 106 | 106.4 | 6.638 | 33.419 | 5.32 | 0.07 | 26.222 | 0.216 | 1477. | 4.6 |
| 107 | 107.9 | 6.659 | 33.431 | 5.28 | 0.07 | 26.228 | 0.219 | 1477. | 4.3 |
| 109 | 110.0 | 6.689 | 33.451 | 5.26 | 0.07 | 26.241 | 0.223 | 1477. | 4.2 |
| 111 | 112.0 | 6.750 | 33.479 | 5.23 | 0.08 | 26.255 | 0.226 | 1478. | 4.1 |
| 113 | 114.0 | 6.809 | 33.505 | 5.20 | 0.08 | 26.267 | 0.230 | 1478. | 4.3 |
| 115 | 116.1 | 6.838 | 33.519 | 5.17 | 0.08 | 26.274 | 0.234 | 1478. | 4.5 |
| 117 | 118.0 | 6.912 | 33.555 | 5.14 | 0.08 | 26.293 | 0.237 | 1478. | 4.6 |
| 119 | 120.0 | 6.970 | 33.572 | 5.10 | 0.08 | 26.299 | 0.240 | 1479. | 4.6 |
| 121 | 122.2 | 7.056 | 33.609 | 5.04 | 0.08 | 26.315 | 0.244 | 1479. | 5.0 |
| 123 | 123.9 | 7.212 | 33.669 | 4.96 | 0.08 | 26.341 | 0.247 | 1480. | 5.7 |
| 125 | 126.0 | 7.232 | 33.683 | 4.93 | 0.08 | 26.349 | 0.251 | 1480. | 6.0 |
| 127 | 127.7 | 7.250 | 33.696 | 4.89 | 0.08 | 26.357 | 0.253 | 1480. | 6.3 |
| 129 | 130.3 | 7.437 | 33.791 | 4.81 | 0.09 | 26.406 | 0.258 | 1481. | 6.2 |
| 131 | 131.8 | 7.793 | 33.924 | 4.71 | 0.09 | 26.460 | 0.260 | 1483. | 5.9 |
| 133 | 134.2 | 7.966 | 33.977 | 4.64 | 0.09 | 26.476 | 0.264 | 1483. | 5.5 |
| 135 | 135.8 | 8.010 | 33.996 | 4.37 | 0.10 | 26.484 | 0.266 | 1483. | 5.1 |
| 137 | 138.3 | 8.030 | 34.005 | 4.26 | 0.10 | 26.488 | 0.270 | 1484. | 4.6 |
| 139 | 139.7 | 8.045 | 34.010 | 4.25 | 0.10 | 26.490 | 0.272 | 1484. | 4.3 |
| 141 | 142.0 | 8.066 | 34.023 | 4.25 | 0.10 | 26.497 | 0.276 | 1484. | 4.3 |
| 143 | 143.8 | 8.056 | 34.044 | 4.26 | 0.10 | 26.515 | 0.279 | 1484. | 4.3 |
| 145 | 146.1 | 8.148 | 34.115 | 4.24 | 0.09 | 26.557 | 0.282 | 1484. | 4.3 |
| 147 | 148.0 | 8.183 | 34.120 | 4.24 | 0.09 | 26.556 | 0.285 | 1484. | 4.2 |
| 149 | 150.0 | 8.203 | 34.128 | 4.25 | 0.09 | 26.559 | 0.288 | 1485. | 4.2 |
| 151 | 152.0 | 8.218 | 34.136 | 4.26 | 0.09 | 26.563 | 0.291 | 1485. | 4.2 |
| 153 | 154.2 | 8.244 | 34.150 | 4.27 | 0.08 | 26.570 | 0.294 | 1485. | 4.3 |
| 155 | 155.8 | 8.281 | 34.175 | 4.28 | 0.08 | 26.584 | 0.297 | 1485. | 5.0 |
| 157 | 158.1 | 8.341 | 34.218 | 4.27 | 0.08 | 26.609 | 0.300 | 1485. | 5.3 |
| 158 | 159.8 | 8.386 | 34.249 | 4.25 | 0.07 | 26.626 | 0.302 | 1486. | 5.4 |
| 161 | 162.0 | 8.446 | 34.295 | 4.24 | 0.07 | 26.653 | 0.306 | 1486. | 5.3 |
| 163 | 164.1 | 8.502 | 34.344 | 4.22 | 0.06 | 26.683 | 0.308 | 1486. | 5.1 |
| 165 | 166.0 | 8.524 | 34.357 | 4.21 | 0.06 | 26.689 | 0.311 | 1486. | 4.7 |
| 167 | 168.2 | 8.529 | 34.361 | 4.20 | 0.06 | 26.692 | 0.314 | 1486. | 4.3 |
| 169 | 170.0 | 8.545 | 34.380 | 4.20 | 0.06 | 26.704 | 0.317 | 1487. | 3.7 |
| 170 | 171.9 | 8.570 | 34.404 | 4.19 | 0.06 | 26.719 | 0.319 | 1487. | 3.2 |
| 173 | 174.1 | 8.574 | 34.409 | 4.19 | 0.06 | 26.722 | 0.322 | 1487. | 3.0 |
| 174 | 175.7 | 8.576 | 34.413 | 4.18 | 0.06 | 26.726 | 0.324 | 1487. | 2.8 |
| 177 | 178.1 | 8.581 | 34.419 | 4.18 | 0.07 | 26.729 | 0.327 | 1487. | 2.6 |
| 179 | 180.1 | 8.582 | 34.420 | 4.18 | 0.06 | 26.730 | 0.330 | 1487. | 2.6 |
| 180 | 181.7 | 8.583 | 34.422 | 4.17 | 0.06 | 26.732 | 0.332 | 1487. | 2.8 |
| 182 | 184.0 | 8.590 | 34.435 | 4.18 | 0.06 | 26.741 | 0.335 | 1487. | 3.1 |
| 184 | 185.9 | 8.592 | 34.442 | 4.18 | 0.06 | 26.746 | 0.338 | 1487. | 3.5 |
| 186 | 188.1 | 8.595 | 34.456 | 4.18 | 0.06 | 26.756 | 0.341 | 1487. | 4.0 |
| 188 | 189.9 | 8.592 | 34.463 | 4.17 | 0.06 | 26.763 | 0.343 | 1487. | 4.5 |
| 191 | 192.1 | 8.586 | 34.481 | 4.17 | 0.07 | 26.777 | 0.346 | 1487. | 5.1 |
| 192 | 193.9 | 8.584 | 34.496 | 4.17 | 0.07 | 26.789 | 0.348 | 1487. | 5.6 |
| 194 | 196.1 | 8.585 | 34.527 | 4.17 | 0.07 | 26.814 | 0.351 | 1487. | 5.9 |
| 196 | 197.9 | 8.622 | 34.569 | 4.16 | 0.07 | 26.841 | 0.353 | 1488. | 6.0 |
| 198 | 200.0 | 8.727 | 34.646 | 4.13 | 0.05 | 26.884 | 0.356 | 1488. | 6.2 |

| SHIP OC | CRUISE 181 | STATION 85 | DATE 14 FEB 1987 | | EST 0051 | LATITUDE 42°27.6'N | LONGITUDE 66°47.0'W | DEPTH 335 | | |
|------------|---------------|---------------|---------------------|-------------|------------------------|----------------------------|--|--------------|----------|--|
| DEPTH m | PRESS dbar | TEMP °C | SALIN psu | OXY ml/l | ATN m ⁻¹ | SIGT gm/cm ³ | DYHT A 10m ² /s ² | S SPD m/s | N cph | |
| 200 | 201.8 | 8.759 | 34.669 | 4.13 | 0.05 | 26.898 | 0.358 | 1488. | 6.4 | |
| 202 | 204.0 | 8.789 | 34.699 | 4.13 | 0.04 | 26.916 | 0.361 | 1488. | 6.4 | |
| 204 | 205.9 | 8.773 | 34.714 | 4.15 | 0.04 | 26.930 | 0.363 | 1488. | 6.3 | |
| 206 | 208.1 | 8.562 | 34.715 | 4.20 | 0.04 | 26.965 | 0.365 | 1488. | 6.2 | |
| 208 | 210.0 | 8.339 | 34.729 | 4.25 | 0.04 | 27.010 | 0.367 | 1487. | 6.3 | |
| 210 | 212.0 | 8.297 | 34.740 | 4.26 | 0.04 | 27.025 | 0.370 | 1487. | 6.5 | |
| 212 | 213.8 | 8.236 | 34.747 | 4.27 | 0.04 | 27.040 | 0.371 | 1487. | 6.5 | |
| 214 | 215.9 | 8.135 | 34.757 | 4.30 | 0.04 | 27.063 | 0.374 | 1486. | 6.3 | |
| 216 | 218.1 | 8.028 | 34.775 | 4.33 | 0.03 | 27.093 | 0.376 | 1486. | 6.0 | |
| 218 | 220.0 | 7.884 | 34.798 | 4.37 | 0.03 | 27.133 | 0.378 | 1485. | 5.8 | |
| 220 | 222.0 | 7.823 | 34.809 | 4.38 | 0.04 | 27.150 | 0.380 | 1485. | 5.4 | |
| 222 | 223.8 | 7.798 | 34.814 | 4.39 | 0.04 | 27.158 | 0.381 | 1485. | 4.9 | |
| 224 | 226.0 | 7.750 | 34.824 | 4.40 | 0.04 | 27.173 | 0.383 | 1485. | 4.1 | |
| 226 | 228.1 | 7.739 | 34.828 | 4.41 | 0.04 | 27.178 | 0.385 | 1485. | 3.5 | |
| 228 | 229.8 | 7.731 | 34.834 | 4.41 | 0.04 | 27.183 | 0.387 | 1485. | 3.2 | |
| 230 | 232.0 | 7.726 | 34.839 | 4.42 | 0.04 | 27.188 | 0.389 | 1485. | 3.1 | |
| 232 | 234.3 | 7.720 | 34.844 | 4.42 | 0.04 | 27.193 | 0.391 | 1485. | 3.2 | |
| 234 | 235.8 | 7.716 | 34.850 | 4.42 | 0.04 | 27.198 | 0.392 | 1485. | 3.5 | |
| 236 | 238.1 | 7.714 | 34.856 | 4.41 | 0.04 | 27.204 | 0.394 | 1485. | 3.8 | |
| 238 | 240.0 | 7.705 | 34.866 | 4.41 | 0.04 | 27.213 | 0.396 | 1485. | 3.9 | |
| 240 | 241.8 | 7.683 | 34.883 | 4.40 | 0.04 | 27.230 | 0.398 | 1485. | 3.9 | |
| 242 | 244.1 | 7.657 | 34.901 | 4.40 | 0.04 | 27.247 | 0.400 | 1485. | 3.7 | |
| 244 | 246.0 | 7.648 | 34.906 | 4.39 | 0.04 | 27.253 | 0.401 | 1485. | 3.5 | |
| 246 | 248.0 | 7.644 | 34.909 | 4.39 | 0.04 | 27.255 | 0.403 | 1485. | 3.1 | |
| 248 | 249.6 | 7.643 | 34.911 | 4.38 | 0.04 | 27.257 | 0.404 | 1485. | 2.6 | |
| 250 | 252.0 | 7.636 | 34.916 | 4.39 | 0.05 | 27.262 | 0.406 | 1485. | 2.1 | |
| 252 | 254.0 | 7.632 | 34.920 | 4.39 | 0.05 | 27.266 | 0.408 | 1485. | 2.0 | |
| 254 | 256.0 | 7.631 | 34.920 | 4.40 | 0.05 | 27.266 | 0.410 | 1485. | 2.0 | |
| 256 | 258.1 | 7.629 | 34.923 | 4.41 | 0.05 | 27.269 | 0.411 | 1485. | 2.0 | |
| 258 | 260.2 | 7.626 | 34.926 | 4.41 | 0.05 | 27.271 | 0.413 | 1485. | 2.0 | |
| 260 | 261.9 | 7.625 | 34.928 | 4.41 | 0.05 | 27.273 | 0.415 | 1485. | 2.1 | |
| 262 | 264.1 | 7.623 | 34.931 | 4.41 | 0.05 | 27.276 | 0.416 | 1485. | 2.1 | |
| 264 | 266.0 | 7.620 | 34.936 | 4.40 | 0.05 | 27.280 | 0.418 | 1485. | 2.1 | |
| 266 | 267.9 | 7.617 | 34.940 | 4.40 | 0.05 | 27.284 | 0.420 | 1485. | 2.2 | |
| 268 | 270.2 | 7.615 | 34.943 | 4.40 | 0.05 | 27.286 | 0.422 | 1485. | 2.2 | |
| 270 | 272.0 | 7.614 | 34.944 | 4.41 | 0.05 | 27.287 | 0.423 | 1485. | 2.2 | |
| 272 | 274.3 | 7.612 | 34.947 | 4.41 | 0.06 | 27.290 | 0.425 | 1485. | 2.2 | |
| 274 | 275.9 | 7.607 | 34.953 | 4.42 | 0.06 | 27.295 | 0.426 | 1485. | 2.3 | |
| 276 | 278.3 | 7.603 | 34.955 | 4.43 | 0.06 | 27.298 | 0.428 | 1485. | 2.6 | |
| 277 | 279.8 | 7.597 | 34.958 | 4.43 | 0.06 | 27.301 | 0.429 | 1485. | 2.7 | |
| 280 | 282.3 | 7.582 | 34.962 | 4.43 | 0.06 | 27.306 | 0.431 | 1485. | 2.8 | |
| 281 | 283.6 | 7.563 | 34.963 | 4.43 | 0.06 | 27.310 | 0.432 | 1485. | 2.9 | |
| 284 | 286.3 | 7.499 | 34.965 | 4.44 | 0.05 | 27.321 | 0.435 | 1485. | 3.1 | |
| 285 | 287.9 | 7.478 | 34.960 | 4.44 | 0.05 | 27.320 | 0.436 | 1485. | 3.2 | |
| 288 | 290.0 | 7.436 | 34.964 | 4.45 | 0.05 | 27.329 | 0.438 | 1485. | 3.2 | |
| 290 | 292.0 | 7.386 | 34.961 | 4.46 | 0.05 | 27.333 | 0.439 | 1485. | 3.1 | |
| 291 | 293.9 | 7.326 | 34.966 | 4.48 | 0.06 | 27.346 | 0.441 | 1485. | 3.0 | |
| 294 | 296.0 | 7.320 | 34.967 | 4.49 | 0.06 | 27.348 | 0.442 | 1485. | 2.8 | |
| 295 | 297.7 | 7.311 | 34.969 | 4.50 | 0.06 | 27.351 | 0.443 | 1485. | 2.5 | |
| 297 | 300.0 | 7.295 | 34.972 | 4.51 | 0.07 | 27.356 | 0.445 | 1485. | 2.2 | |

| SHIP OC | CRUISE 181 | STATION 85 | DATE 14 FEB 1987 | | EST 0051 | LATITUDE 42°27.6'N | LONGITUDE 66°47.0'W | DEPTH 335 | | |
|------------|---------------|---------------|---------------------|-------------|------------------------|----------------------------|--|--------------|----------|--|
| DEPTH m | PRESS dbar | TEMP °C | SALIN psu | OXY ml/l | ATN m ⁻¹ | SIGT gm/cm ³ | DYHT A 10m ² /s ² | S SPD m/s | N cph | |
| 300 | 302.2 | 7.287 | 34.975 | 4.52 | 0.08 | 27.359 | 0.447 | 1485. | 1.8 | |
| 301 | 304.0 | 7.282 | 34.975 | 4.53 | 0.08 | 27.360 | 0.448 | 1485. | 1.7 | |
| 304 | 306.2 | 7.279 | 34.976 | 4.53 | 0.09 | 27.361 | 0.450 | 1485. | 1.4 | |
| 305 | 308.0 | 7.279 | 34.975 | 4.53 | 0.09 | 27.360 | 0.451 | 1485. | 1.1 | |
| 307 | 310.1 | 7.269 | 34.976 | 4.53 | 0.09 | 27.362 | 0.453 | 1485. | 0.9 | |
| 309 | 311.8 | 7.269 | 34.976 | 4.53 | 0.09 | 27.363 | 0.454 | 1485. | 0.8 | |
| 311 | 314.1 | 7.268 | 34.976 | 4.53 | 0.09 | 27.363 | 0.456 | 1485. | 0.7 | |
| 313 | 316.2 | 7.267 | 34.977 | 4.52 | 0.08 | 27.363 | 0.457 | 1485. | 0.7 | |
| 315 | 317.3 | 7.268 | 34.976 | 4.52 | 0.09 | 27.362 | 0.458 | 1485. | 0.3 | |
| 315 | 318.1 | 7.268 | 34.976 | 4.52 | 0.09 | 27.363 | 0.459 | 1485. | 0.2 | |
| 316 | 319.0 | 7.268 | 34.976 | 4.52 | 0.09 | 27.362 | 0.460 | 1485. | 0.2 | |
| 317 | 320.0 | 7.268 | 34.976 | 4.52 | 0.09 | 27.363 | 0.460 | 1485. | 0.0 | |
| 318 | 321.0 | 7.268 | 34.976 | 4.52 | 0.09 | 27.362 | 0.461 | 1485. | 0.3 | |
| 319 | 322.0 | 7.268 | 34.976 | 4.53 | 0.09 | 27.363 | 0.462 | 1485. | -0.2 | |
| 320 | 323.1 | 7.268 | 34.976 | 4.53 | 0.09 | 27.363 | 0.463 | 1485. | -0.2 | |
| 321 | 323.9 | 7.269 | 34.976 | 4.53 | 0.09 | 27.362 | 0.463 | 1485. | -0.2 | |
| 322 | 325.0 | 7.270 | 34.976 | 4.52 | 0.09 | 27.362 | 0.464 | 1485. | -0.2 | |
| 323 | 325.8 | 7.269 | 34.976 | 4.52 | 0.09 | 27.362 | 0.465 | 1485. | -0.2 | |

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| SHIP OC | CRUISE 181 | STATION 86 | DATE 14 FEB 1987 | EST 0817 | LATITUDE 42°31.8'N | LONGITUDE 67°14.1'W | DEPTH 328 | | |
|------------|---------------|---------------|---------------------|-------------|------------------------|----------------------------|--|--------------|----------|
| DEPTH m | PRESS dbar | TEMP °C | SALIN psu | OKY ml/l | ATN m ⁻¹ | SIGT gm/cm ³ | DYHT A 10m ² /s ² | S SPD m/s | N cph |
| 2 | 2.4 | 2.348 | 31.745 | 0.11 | 25.339 | 0.000 | 1455. | 0.6 | |
| 4 | 4.0 | 2.349 | 31.743 | 0.11 | 25.338 | 0.004 | 1455. | 0.6 | |
| 6 | 6.0 | 2.351 | 31.743 | 0.11 | 25.337 | 0.009 | 1455. | 0.6 | |
| 8 | 7.9 | 2.358 | 31.743 | 0.11 | 25.337 | 0.014 | 1456. | 0.6 | |
| 10 | 10.0 | 2.355 | 31.744 | 0.11 | 25.338 | 0.020 | 1456. | 0.6 | |
| 12 | 12.0 | 2.351 | 31.743 | 0.11 | 25.337 | 0.025 | 1456. | 0.6 | |
| 14 | 14.0 | 2.355 | 31.744 | 0.11 | 25.338 | 0.030 | 1456. | 0.8 | |
| 16 | 16.0 | 2.373 | 31.748 | 0.11 | 25.340 | 0.036 | 1456. | 1.6 | |
| 18 | 17.9 | 2.369 | 31.748 | 0.11 | 25.340 | 0.041 | 1456. | 2.1 | |
| 20 | 20.1 | 2.371 | 31.745 | 0.11 | 25.337 | 0.046 | 1456. | 2.2 | |
| 22 | 22.0 | 2.413 | 31.754 | 0.11 | 25.341 | 0.051 | 1456. | 2.3 | |
| 24 | 24.2 | 2.506 | 31.785 | 0.11 | 25.359 | 0.057 | 1456. | 2.5 | |
| 26 | 25.8 | 2.550 | 31.793 | 0.11 | 25.362 | 0.061 | 1457. | 5.1 | |
| 28 | 27.9 | 2.524 | 31.780 | 0.11 | 25.354 | 0.067 | 1457. | 6.5 | |
| 30 | 29.9 | 2.537 | 31.794 | 0.11 | 25.364 | 0.072 | 1457. | 7.5 | |
| 32 | 32.0 | 2.701 | 31.815 | 0.11 | 25.368 | 0.077 | 1457. | 8.2 | |
| 34 | 33.9 | 3.269 | 32.115 | 0.11 | 25.559 | 0.082 | 1460. | 8.5 | |
| 36 | 35.9 | 3.345 | 32.140 | 0.10 | 25.573 | 0.087 | 1461. | 8.5 | |
| 38 | 37.9 | 3.514 | 32.205 | 0.09 | 25.609 | 0.092 | 1462. | 8.0 | |
| 40 | 40.0 | 3.626 | 32.269 | 0.09 | 25.650 | 0.097 | 1462. | 6.9 | |
| 42 | 42.1 | 3.790 | 32.310 | 0.08 | 25.667 | 0.102 | 1463. | 4.9 | |
| 44 | 44.0 | 3.827 | 32.320 | 0.08 | 25.672 | 0.106 | 1463. | 4.2 | |
| 46 | 46.1 | 3.855 | 32.328 | 0.08 | 25.675 | 0.111 | 1463. | 3.3 | |
| 48 | 48.0 | 3.891 | 32.329 | 0.08 | 25.672 | 0.115 | 1464. | 2.4 | |
| 50 | 50.2 | 3.933 | 32.340 | 0.08 | 25.677 | 0.120 | 1464. | 1.9 | |
| 52 | 52.2 | 3.942 | 32.345 | 0.07 | 25.680 | 0.125 | 1464. | 1.7 | |
| 53 | 53.9 | 3.971 | 32.357 | 0.07 | 25.687 | 0.129 | 1464. | 2.5 | |
| 56 | 56.0 | 3.956 | 32.353 | 0.07 | 25.686 | 0.134 | 1464. | 3.4 | |
| 57 | 58.0 | 3.955 | 32.349 | 0.07 | 25.682 | 0.138 | 1464. | 4.0 | |
| 60 | 60.0 | 3.982 | 32.354 | 0.07 | 25.684 | 0.143 | 1464. | 4.9 | |
| 62 | 62.1 | 4.238 | 32.433 | 0.07 | 25.721 | 0.148 | 1465. | 5.5 | |
| 63 | 64.0 | 4.343 | 32.482 | 0.07 | 25.749 | 0.152 | 1466. | 5.9 | |
| 65 | 65.9 | 4.400 | 32.503 | 0.06 | 25.760 | 0.156 | 1466. | 6.9 | |
| 67 | 67.9 | 4.671 | 32.607 | 0.06 | 25.814 | 0.161 | 1467. | 7.7 | |
| 69 | 69.9 | 4.806 | 32.645 | 0.06 | 25.830 | 0.165 | 1468. | 7.9 | |
| 71 | 72.1 | 5.038 | 32.681 | 0.06 | 25.833 | 0.170 | 1469. | 8.0 | |
| 73 | 74.0 | 5.693 | 32.935 | 0.05 | 25.959 | 0.174 | 1472. | 8.0 | |
| 75 | 76.0 | 5.781 | 33.025 | 0.05 | 26.019 | 0.178 | 1473. | 7.5 | |
| 77 | 78.0 | 5.549 | 32.978 | 0.05 | 26.009 | 0.182 | 1472. | 7.1 | |
| 79 | 80.0 | 5.956 | 33.091 | 0.04 | 26.050 | 0.186 | 1473. | 6.4 | |
| 81 | 82.1 | 6.160 | 33.138 | 0.04 | 26.062 | 0.190 | 1474. | 5.0 | |
| 84 | 84.2 | 6.355 | 33.170 | 0.04 | 26.062 | 0.194 | 1475. | 5.1 | |
| 85 | 86.0 | 6.551 | 33.234 | 0.04 | 26.088 | 0.197 | 1476. | 5.3 | |
| 87 | 88.0 | 6.562 | 33.248 | 0.04 | 26.097 | 0.201 | 1476. | 5.0 | |
| 89 | 90.0 | 6.641 | 33.271 | 0.04 | 26.105 | 0.205 | 1477. | 5.7 | |
| 91 | 91.9 | 6.659 | 33.349 | 0.04 | 26.164 | 0.209 | 1477. | 6.2 | |
| 93 | 94.0 | 6.928 | 33.394 | 0.04 | 26.164 | 0.212 | 1478. | 6.8 | |
| 95 | 96.0 | 7.108 | 33.424 | 0.04 | 26.163 | 0.216 | 1479. | 7.0 | |
| 97 | 98.0 | 7.378 | 33.570 | 0.05 | 26.241 | 0.220 | 1480. | 7.0 | |
| 99 | 100.1 | 7.616 | 33.654 | 0.05 | 26.273 | 0.224 | 1481. | 7.0 | |

| SHIP OC | CRUISE 181 | STATION 86 | DATE 14 FEB 1987 | EST 0817 | LATITUDE 42°31.8'N | LONGITUDE 67°14.1'W | DEPTH 328 | | |
|------------|---------------|---------------|---------------------|-------------|------------------------|----------------------------|--|--------------|----------|
| DEPTH m | PRESS dbar | TEMP °C | SALIN psu | OKY ml/l | ATN m ⁻¹ | SIGT gm/cm ³ | DYHT A 10m ² /s ² | S SPD m/s | N cph |
| 101 | 102.0 | 7.837 | 33.772 | 0.06 | 26.334 | 0.227 | 1482. | 7.3 | |
| 103 | 104.0 | 7.802 | 33.752 | 0.07 | 26.323 | 0.230 | 1482. | 7.2 | |
| 105 | 106.0 | 7.808 | 33.788 | 0.07 | 26.350 | 0.234 | 1482. | 6.8 | |
| 107 | 108.0 | 7.959 | 33.875 | 0.07 | 26.396 | 0.237 | 1483. | 6.5 | |
| 109 | 110.0 | 8.055 | 33.936 | 0.07 | 26.430 | 0.240 | 1483. | 6.0 | |
| 111 | 112.0 | 8.065 | 33.963 | 0.07 | 26.450 | 0.243 | 1483. | 6.2 | |
| 113 | 114.0 | 8.109 | 34.007 | 0.07 | 26.478 | 0.246 | 1484. | 6.3 | |
| 115 | 116.0 | 8.123 | 34.010 | 0.08 | 26.478 | 0.250 | 1484. | 6.2 | |
| 117 | 118.1 | 8.121 | 34.020 | 0.08 | 26.487 | 0.253 | 1484. | 6.1 | |
| 119 | 120.1 | 8.181 | 34.099 | 0.10 | 26.540 | 0.256 | 1484. | 6.1 | |
| 121 | 121.8 | 8.242 | 34.178 | 0.10 | 26.593 | 0.259 | 1484. | 6.3 | |
| 123 | 124.0 | 8.196 | 34.170 | 0.10 | 26.593 | 0.262 | 1484. | 6.4 | |
| 125 | 126.1 | 8.198 | 34.183 | 0.09 | 26.603 | 0.265 | 1484. | 6.1 | |
| 127 | 128.1 | 8.319 | 34.240 | 0.08 | 26.629 | 0.268 | 1485. | 5.7 | |
| 129 | 130.0 | 8.452 | 34.316 | 0.08 | 26.669 | 0.270 | 1485. | 5.3 | |
| 131 | 132.0 | 8.454 | 34.335 | 0.07 | 26.683 | 0.273 | 1486. | 5.2 | |
| 133 | 134.1 | 8.545 | 34.361 | 0.06 | 26.690 | 0.276 | 1486. | 4.7 | |
| 135 | 136.1 | 8.686 | 34.427 | 0.06 | 26.719 | 0.279 | 1487. | 4.1 | |
| 137 | 137.9 | 8.713 | 34.427 | 0.06 | 26.715 | 0.281 | 1487. | 3.7 | |
| 139 | 140.0 | 8.719 | 34.429 | 0.06 | 26.716 | 0.284 | 1487. | 3.5 | |
| 141 | 142.0 | 8.728 | 34.437 | 0.06 | 26.721 | 0.287 | 1487. | 3.3 | |
| 143 | 144.1 | 8.746 | 34.455 | 0.05 | 26.732 | 0.289 | 1487. | 3.7 | |
| 145 | 146.0 | 8.767 | 34.477 | 0.05 | 26.746 | 0.292 | 1487. | 4.4 | |
| 147 | 148.0 | 8.768 | 34.480 | 0.05 | 26.748 | 0.294 | 1487. | 4.8 | |
| 149 | 150.1 | 8.787 | 34.490 | 0.05 | 26.753 | 0.297 | 1487. | 5.3 | |
| 150 | 151.7 | 8.904 | 34.569 | 0.04 | 26.796 | 0.299 | 1488. | 5.5 | |
| 153 | 154.0 | 8.907 | 34.596 | 0.04 | 26.817 | 0.302 | 1488. | 5.4 | |
| 155 | 156.0 | 8.900 | 34.612 | 0.04 | 26.831 | 0.305 | 1488. | 5.2 | |
| 157 | 158.0 | 8.841 | 34.646 | 0.04 | 26.867 | 0.307 | 1488. | 4.8 | |
| 159 | 159.9 | 8.838 | 34.646 | 0.05 | 26.867 | 0.309 | 1488. | 4.5 | |
| 161 | 162.0 | 8.843 | 34.646 | 0.05 | 26.866 | 0.312 | 1488. | 4.3 | |
| 163 | 164.0 | 8.841 | 34.654 | 0.05 | 26.873 | 0.314 | 1488. | 4.1 | |
| 165 | 166.1 | 8.771 | 34.653 | 0.06 | 26.883 | 0.317 | 1488. | 3.8 | |
| 166 | 167.9 | 8.589 | 34.657 | 0.06 | 26.915 | 0.319 | 1487. | 3.9 | |
| 169 | 170.0 | 8.580 | 34.662 | 0.07 | 26.920 | 0.321 | 1487. | 3.8 | |
| 171 | 172.0 | 8.567 | 34.663 | 0.07 | 26.923 | 0.324 | 1487. | 3.2 | |
| 173 | 174.0 | 8.565 | 34.664 | 0.07 | 26.924 | 0.326 | 1487. | 2.8 | |
| 175 | 176.0 | 8.566 | 34.671 | 0.07 | 26.930 | 0.328 | 1487. | 2.4 | |
| 176 | 177.9 | 8.567 | 34.675 | 0.07 | 26.933 | 0.330 | 1487. | 2.7 | |
| 179 | 180.0 | 8.574 | 34.668 | 0.07 | 26.926 | 0.333 | 1487. | 3.0 | |
| 181 | 182.1 | 8.523 | 34.677 | 0.08 | 26.940 | 0.335 | 1487. | 3.2 | |
| 183 | 184.1 | 8.512 | 34.690 | 0.07 | 26.952 | 0.338 | 1487. | 3.3 | |
| 184 | 186.0 | 8.534 | 34.705 | 0.07 | 26.961 | 0.340 | 1487. | 3.4 | |
| 186 | 188.0 | 8.547 | 34.717 | 0.07 | 26.968 | 0.342 | 1487. | 3.6 | |
| 188 | 190.0 | 8.543 | 34.720 | 0.07 | 26.971 | 0.344 | 1487. | 3.5 | |
| 190 | 192.0 | 8.562 | 34.735 | 0.07 | 26.980 | 0.346 | 1487. | 3.2 | |
| 192 | 194.0 | 8.594 | 34.747 | 0.07 | 26.984 | 0.349 | 1488. | 3.1 | |
| 194 | 196.1 | 8.593 | 34.765 | 0.07 | 26.999 | 0.351 | 1488. | 3.1 | |
| 196 | 197.9 | 8.567 | 34.766 | 0.07 | 27.004 | 0.353 | 1488. | 3.0 | |
| 198 | 200.0 | 8.570 | 34.764 | 0.07 | 27.002 | 0.355 | 1488. | 2.9 | |

| SHIP OC | CRUISE 181 | STATION 86 | DATE 14 FEB 1987 | | EST 0817 | LATITUDE 42°31.8'N | LONGITUDE 67°14.1'W | DEPTH 328 | |
|------------|---------------|---------------|---------------------|-------------|------------------------|----------------------------|--|--------------|----------|
| DEPTH m | PRESS dbar | TEMP °C | SALIN psu | OXY ml/l | ATN m ⁻¹ | SIGT gm/cm ³ | DYHT A 10m ² /s ² | S SPD m/s | N cph |
| 200 | 202.1 | 8.547 | 34.765 | | 0.07 | 27.006 | 0.357 | 1488. | 2.8 |
| 202 | 204.1 | 8.539 | 34.778 | | 0.07 | 27.018 | 0.359 | 1488. | 2.6 |
| 204 | 206.0 | 8.535 | 34.779 | | 0.07 | 27.019 | 0.361 | 1488. | 2.7 |
| 206 | 208.0 | 8.548 | 34.786 | | 0.07 | 27.022 | 0.364 | 1488. | 3.0 |
| 208 | 210.0 | 8.549 | 34.792 | | 0.07 | 27.027 | 0.366 | 1488. | 3.1 |
| 210 | 211.9 | 8.544 | 34.796 | | 0.07 | 27.031 | 0.368 | 1488. | 3.1 |
| 212 | 214.0 | 8.543 | 34.809 | | 0.07 | 27.041 | 0.370 | 1488. | 3.1 |
| 214 | 216.1 | 8.539 | 34.822 | | 0.08 | 27.052 | 0.372 | 1488. | 3.0 |
| 216 | 218.0 | 8.535 | 34.831 | | 0.08 | 27.060 | 0.374 | 1488. | 2.8 |
| 218 | 220.0 | 8.532 | 34.832 | | 0.07 | 27.061 | 0.376 | 1488. | 2.8 |
| 220 | 222.1 | 8.534 | 34.833 | | 0.07 | 27.062 | 0.378 | 1488. | 2.5 |
| 222 | 224.0 | 8.538 | 34.835 | | 0.07 | 27.063 | 0.380 | 1488. | 2.2 |
| 224 | 226.1 | 8.553 | 34.844 | | 0.07 | 27.067 | 0.382 | 1488. | 2.1 |
| 226 | 227.9 | 8.596 | 34.869 | | 0.06 | 27.080 | 0.384 | 1488. | 2.1 |
| 228 | 230.0 | 8.588 | 34.860 | | 0.06 | 27.075 | 0.386 | 1488. | 2.1 |
| 230 | 232.1 | 8.614 | 34.868 | | 0.05 | 27.076 | 0.389 | 1488. | 2.0 |
| 232 | 234.0 | 8.652 | 34.880 | | 0.05 | 27.080 | 0.391 | 1489. | 1.8 |
| 234 | 236.0 | 8.646 | 34.882 | | 0.05 | 27.082 | 0.393 | 1489. | 1.5 |
| 236 | 238.0 | 8.632 | 34.881 | | 0.06 | 27.084 | 0.395 | 1489. | 1.6 |
| 238 | 240.0 | 8.612 | 34.880 | | 0.06 | 27.086 | 0.397 | 1489. | 1.5 |
| 240 | 242.0 | 8.602 | 34.879 | | 0.06 | 27.087 | 0.399 | 1489. | 1.4 |
| 242 | 244.0 | 8.596 | 34.878 | | 0.06 | 27.087 | 0.401 | 1489. | 1.2 |
| 244 | 246.3 | 8.594 | 34.877 | | 0.06 | 27.087 | 0.403 | 1489. | 1.1 |
| 246 | 247.9 | 8.579 | 34.876 | | 0.07 | 27.088 | 0.405 | 1489. | 1.2 |
| 248 | 250.0 | 8.558 | 34.874 | | 0.07 | 27.090 | 0.407 | 1489. | 1.3 |
| 250 | 252.0 | 8.567 | 34.875 | | 0.06 | 27.089 | 0.409 | 1489. | 1.3 |
| 252 | 254.0 | 8.584 | 34.881 | | 0.06 | 27.091 | 0.411 | 1489. | 1.3 |
| 254 | 256.1 | 8.609 | 34.888 | | 0.05 | 27.093 | 0.413 | 1489. | 1.1 |
| 256 | 257.9 | 8.611 | 34.891 | | 0.05 | 27.095 | 0.415 | 1489. | 1.2 |
| 258 | 259.9 | 8.614 | 34.891 | | 0.05 | 27.095 | 0.417 | 1489. | 1.3 |
| 260 | 262.0 | 8.614 | 34.890 | | 0.05 | 27.094 | 0.419 | 1489. | 1.3 |
| 262 | 264.1 | 8.607 | 34.887 | | 0.06 | 27.093 | 0.421 | 1489. | 1.4 |
| 264 | 266.0 | 8.562 | 34.886 | | 0.07 | 27.099 | 0.423 | 1489. | 1.6 |
| 266 | 267.9 | 8.555 | 34.885 | | 0.07 | 27.099 | 0.425 | 1489. | 2.0 |
| 268 | 269.9 | 8.551 | 34.887 | | 0.07 | 27.101 | 0.427 | 1489. | 2.2 |
| 270 | 272.0 | 8.552 | 34.889 | | 0.07 | 27.102 | 0.429 | 1489. | 2.3 |
| 272 | 274.1 | 8.536 | 34.894 | | 0.08 | 27.109 | 0.431 | 1489. | 2.3 |
| 274 | 276.1 | 8.500 | 34.895 | | 0.09 | 27.115 | 0.433 | 1489. | 2.5 |
| 276 | 278.0 | 8.493 | 34.894 | | 0.09 | 27.115 | 0.435 | 1489. | 2.7 |
| 278 | 280.0 | 8.486 | 34.896 | | 0.10 | 27.118 | 0.437 | 1489. | 2.8 |
| 280 | 282.0 | 8.470 | 34.899 | | 0.10 | 27.123 | 0.439 | 1489. | 2.9 |
| 282 | 284.0 | 8.456 | 34.906 | | 0.12 | 27.131 | 0.441 | 1489. | 2.8 |
| 284 | 286.0 | 8.441 | 34.915 | | 0.14 | 27.140 | 0.443 | 1489. | 2.8 |
| 286 | 288.0 | 8.432 | 34.918 | | 0.15 | 27.144 | 0.445 | 1489. | 2.6 |
| 287 | 289.9 | 8.423 | 34.921 | | 0.15 | 27.147 | 0.447 | 1489. | 2.5 |
| 289 | 291.9 | 8.421 | 34.922 | | 0.16 | 27.148 | 0.448 | 1489. | 2.3 |
| 291 | 294.0 | 8.415 | 34.923 | | 0.17 | 27.150 | 0.450 | 1489. | 2.2 |
| 294 | 296.3 | 8.405 | 34.925 | | 0.18 | 27.153 | 0.453 | 1489. | 2.2 |
| 295 | 297.9 | 8.393 | 34.927 | | 0.20 | 27.157 | 0.454 | 1489. | 2.1 |
| 298 | 300.1 | 8.375 | 34.932 | | 0.23 | 27.164 | 0.456 | 1489. | 2.0 |

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| SHIP OC | CRUISE 181 | STATION 86 | DATE 14 FEB 1987 | | EST 0817 | LATITUDE 42°31.8'N | LONGITUDE 67°14.1'W | DEPTH | |
|------------|---------------|---------------|---------------------|-------------|------------------------|----------------------------|--|--------------|----------|
| DEPTH m | PRESS dbar | TEMP °C | SALIN psu | OXY ml/l | ATN m ⁻¹ | SIGT gm/cm ³ | DYHT A 10m ² /s ² | S SPD m/s | N cph |
| 299 | 301.8 | 8.369 | 34.933 | | 0.26 | 27.166 | 0.458 | 1489. | 1.9 |
| 301 | 303.9 | 8.371 | 34.933 | | 0.26 | 27.165 | 0.460 | 1489. | 1.6 |
| 303 | 305.9 | 8.371 | 34.933 | | 0.26 | 27.165 | 0.462 | 1489. | 1.4 |
| 305 | 308.1 | 8.366 | 34.934 | | 0.28 | 27.167 | 0.464 | 1489. | 1.0 |
| 307 | 310.1 | 8.362 | 34.935 | | 0.30 | 27.168 | 0.466 | 1489. | 0.9 |
| 309 | 311.2 | 8.363 | 34.935 | | 0.33 | 27.168 | 0.467 | 1489. | 0.9 |
| 309 | 311.9 | 8.363 | 34.935 | | 0.33 | 27.168 | 0.467 | 1489. | 0.8 |
| 310 | 312.9 | 8.363 | 34.934 | | 0.33 | 27.168 | 0.468 | 1489. | 0.0 |
| 311 | 314.0 | 8.363 | 34.934 | | 0.33 | 27.167 | 0.469 | 1489. | -0.5 |
| 312 | 315.0 | 8.364 | 34.934 | | 0.33 | 27.167 | 0.470 | 1489. | -0.5 |
| 313 | 316.0 | 8.364 | 34.934 | | 0.33 | 27.167 | 0.471 | 1489. | -0.4 |
| 314 | 317.0 | 8.364 | 34.934 | | 0.33 | 27.167 | 0.472 | 1489. | -0.4 |
| 315 | 318.1 | 8.364 | 34.934 | | 0.33 | 27.167 | 0.473 | 1489. | -0.4 |
| 316 | 318.9 | 8.364 | 34.935 | | 0.36 | 27.167 | 0.474 | 1489. | -0.4 |
| 317 | 320.0 | 8.364 | 34.934 | | 0.33 | 27.167 | 0.475 | 1489. | -0.4 |

SHIP CRUISE STATION DATE EST LATITUDE LONGITUDE DEPTH
 OC 181 87 14 FEB 1987 0858 42°32.3'N 67°15.0'W 322

| DEPTH | PRESS | TEMP | SALIN | OXY | ATN | SIGT | DYHT A | S SPD | N |
|-------|-------|-------|--------|------|-----------------|--------------------|----------------------------------|-------|-----|
| m | dbar | °C | psu | ml/l | m ⁻¹ | gm/cm ³ | 10m ² /s ² | m/s | cph |
| 7 | 7.0 | 2.336 | 31.740 | | 0.12 | 25.336 | 0.000 | 1455. | 0.7 |
| 8 | 7.8 | 2.335 | 31.740 | | 0.12 | 25.336 | 0.002 | 1455. | 0.7 |
| 10 | 10.1 | 2.338 | 31.741 | | 0.12 | 25.337 | 0.008 | 1455. | 0.7 |
| 12 | 11.9 | 2.343 | 31.741 | | 0.12 | 25.337 | 0.013 | 1456. | 0.7 |
| 14 | 14.0 | 2.340 | 31.742 | | 0.12 | 25.337 | 0.018 | 1456. | 0.7 |
| 16 | 16.3 | 2.351 | 31.745 | | 0.12 | 25.339 | 0.024 | 1456. | 0.6 |
| 18 | 18.0 | 2.346 | 31.743 | | 0.12 | 25.337 | 0.029 | 1456. | 0.7 |
| 20 | 20.0 | 2.347 | 31.743 | | 0.12 | 25.338 | 0.034 | 1456. | 0.9 |
| 22 | 22.2 | 2.353 | 31.745 | | 0.12 | 25.339 | 0.040 | 1456. | 1.3 |
| 24 | 23.9 | 2.346 | 31.744 | | 0.12 | 25.338 | 0.044 | 1456. | 1.9 |
| 26 | 26.1 | 2.352 | 31.746 | | 0.12 | 25.340 | 0.050 | 1456. | 2.6 |
| 28 | 28.1 | 2.369 | 31.750 | | 0.11 | 25.342 | 0.056 | 1456. | 3.3 |
| 30 | 29.7 | 2.412 | 31.763 | | 0.11 | 25.349 | 0.060 | 1456. | 4.8 |
| 32 | 32.0 | 2.476 | 31.783 | | 0.11 | 25.360 | 0.066 | 1456. | 6.3 |
| 34 | 34.2 | 2.540 | 31.810 | | 0.11 | 25.377 | 0.072 | 1457. | 7.8 |
| 35 | 35.7 | 2.620 | 31.843 | | 0.11 | 25.396 | 0.075 | 1457. | 8.5 |
| 38 | 38.1 | 2.948 | 31.992 | | 0.11 | 25.489 | 0.081 | 1459. | 8.7 |
| 40 | 39.9 | 3.236 | 32.119 | | 0.11 | 25.566 | 0.086 | 1460. | 8.6 |
| 42 | 42.0 | 3.612 | 32.293 | | 0.10 | 25.671 | 0.091 | 1462. | 8.1 |
| 44 | 44.0 | 3.684 | 32.297 | | 0.10 | 25.667 | 0.095 | 1463. | 7.1 |
| 46 | 46.1 | 3.711 | 32.303 | | 0.09 | 25.669 | 0.100 | 1463. | 5.5 |
| 48 | 47.9 | 3.736 | 32.308 | | 0.09 | 25.671 | 0.104 | 1463. | 3.8 |
| 50 | 50.0 | 3.770 | 32.319 | | 0.09 | 25.676 | 0.109 | 1463. | 1.9 |
| 51 | 51.9 | 3.847 | 32.340 | | 0.08 | 25.686 | 0.114 | 1463. | 2.0 |
| 54 | 54.0 | 3.938 | 32.346 | | 0.08 | 25.682 | 0.118 | 1464. | 1.9 |
| 56 | 56.3 | 3.940 | 32.348 | | 0.08 | 25.683 | 0.124 | 1464. | 1.8 |
| 57 | 57.8 | 3.948 | 32.351 | | 0.08 | 25.685 | 0.127 | 1464. | 1.5 |
| 60 | 60.0 | 3.951 | 32.355 | | 0.08 | 25.687 | 0.132 | 1464. | 1.5 |
| 61 | 61.9 | 3.950 | 32.357 | | 0.08 | 25.689 | 0.137 | 1464. | 2.9 |
| 63 | 64.0 | 3.951 | 32.357 | | 0.08 | 25.689 | 0.141 | 1464. | 4.4 |
| 66 | 66.4 | 3.955 | 32.359 | | 0.08 | 25.690 | 0.147 | 1464. | 5.3 |
| 67 | 67.8 | 3.981 | 32.369 | | 0.08 | 25.696 | 0.150 | 1464. | 6.3 |
| 69 | 70.0 | 4.231 | 32.465 | | 0.07 | 25.747 | 0.155 | 1465. | 7.1 |
| 71 | 72.1 | 4.546 | 32.597 | | 0.07 | 25.819 | 0.160 | 1467. | 7.8 |
| 73 | 74.0 | 4.683 | 32.619 | | 0.07 | 25.823 | 0.164 | 1468. | 8.5 |
| 76 | 76.4 | 4.942 | 32.746 | | 0.06 | 25.895 | 0.169 | 1469. | 8.7 |
| 77 | 78.0 | 5.194 | 32.821 | | 0.06 | 25.927 | 0.172 | 1470. | 8.4 |
| 79 | 80.1 | 5.436 | 32.930 | | 0.05 | 25.985 | 0.177 | 1471. | 7.9 |
| 81 | 81.8 | 5.882 | 33.088 | | 0.05 | 26.056 | 0.180 | 1473. | 7.4 |
| 83 | 84.0 | 6.183 | 33.161 | | 0.04 | 26.077 | 0.184 | 1475. | 6.5 |
| 85 | 86.1 | 6.325 | 33.196 | | 0.04 | 26.086 | 0.188 | 1475. | 5.9 |
| 87 | 87.9 | 6.384 | 33.210 | | 0.04 | 26.090 | 0.192 | 1475. | 5.3 |
| 90 | 90.2 | 6.509 | 33.250 | | 0.04 | 26.105 | 0.196 | 1476. | 5.6 |
| 91 | 91.9 | 6.565 | 33.264 | | 0.04 | 26.110 | 0.199 | 1476. | 6.5 |
| 93 | 94.0 | 6.691 | 33.322 | | 0.04 | 26.138 | 0.203 | 1477. | 7.3 |
| 95 | 96.1 | 6.895 | 33.406 | | 0.04 | 26.177 | 0.207 | 1478. | 7.7 |
| 97 | 98.0 | 7.321 | 33.580 | | 0.04 | 26.256 | 0.211 | 1480. | 7.8 |
| 99 | 100.1 | 7.638 | 33.707 | | 0.04 | 26.311 | 0.215 | 1481. | 7.7 |
| 101 | 102.0 | 7.856 | 33.785 | | 0.04 | 26.341 | 0.218 | 1482. | 7.5 |
| 103 | 104.1 | 7.906 | 33.814 | | 0.05 | 26.356 | 0.221 | 1482. | 7.3 |

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SHIP CRUISE STATION DATE EST LATITUDE LONGITUDE DEPTH
 OC 181 87 14 FEB 1987 0858 42°32.3'N 67°15.0'W 322

| DEPTH | PRESS | TEMP | SALIN | OXY | ATN | SIGT | DYHT A | S SPD | N |
|-------|-------|-------|--------|------|-----------------|--------------------|----------------------------------|-------|-----|
| m | dbar | °C | psu | ml/l | m ⁻¹ | gm/cm ³ | 10m ² /s ² | m/s | cph |
| 105 | 106.0 | 7.906 | 33.828 | | 0.06 | 26.367 | 0.224 | 1482. | 6.9 |
| 107 | 107.9 | 7.967 | 33.872 | | 0.07 | 26.393 | 0.228 | 1483. | 6.7 |
| 109 | 110.0 | 8.093 | 33.971 | | 0.06 | 26.453 | 0.231 | 1483. | 6.8 |
| 111 | 111.9 | 8.145 | 34.021 | | 0.06 | 26.484 | 0.234 | 1484. | 6.9 |
| 113 | 114.0 | 8.169 | 34.056 | | 0.07 | 26.508 | 0.237 | 1484. | 6.9 |
| 115 | 116.1 | 8.180 | 34.088 | | 0.08 | 26.531 | 0.240 | 1484. | 6.9 |
| 117 | 117.9 | 8.189 | 34.119 | | 0.09 | 26.554 | 0.243 | 1484. | 6.7 |
| 119 | 120.1 | 8.203 | 34.168 | | 0.11 | 26.590 | 0.246 | 1484. | 6.7 |
| 121 | 121.9 | 8.237 | 34.208 | | 0.11 | 26.616 | 0.249 | 1484. | 6.5 |
| 123 | 123.9 | 8.352 | 34.290 | | 0.10 | 26.663 | 0.252 | 1485. | 6.0 |
| 125 | 126.2 | 8.423 | 34.333 | | 0.10 | 26.686 | 0.255 | 1485. | 5.4 |
| 127 | 127.7 | 8.458 | 34.349 | | 0.09 | 26.694 | 0.257 | 1485. | 4.6 |
| 129 | 129.9 | 8.548 | 34.373 | | 0.08 | 26.699 | 0.260 | 1486. | 3.8 |
| 131 | 132.0 | 8.562 | 34.379 | | 0.08 | 26.701 | 0.263 | 1486. | 2.8 |
| 133 | 134.1 | 8.625 | 34.395 | | 0.07 | 26.704 | 0.266 | 1486. | 2.4 |
| 135 | 135.9 | 8.651 | 34.403 | | 0.06 | 26.706 | 0.268 | 1486. | 2.5 |
| 137 | 138.1 | 8.663 | 34.412 | | 0.06 | 26.711 | 0.271 | 1486. | 2.9 |
| 139 | 139.9 | 8.667 | 34.416 | | 0.06 | 26.714 | 0.274 | 1487. | 3.2 |
| 141 | 142.1 | 8.663 | 34.421 | | 0.06 | 26.718 | 0.276 | 1487. | 3.3 |
| 143 | 143.9 | 8.680 | 34.440 | | 0.06 | 26.731 | 0.279 | 1487. | 3.4 |
| 145 | 146.0 | 8.716 | 34.470 | | 0.06 | 26.748 | 0.282 | 1487. | 3.5 |
| 147 | 148.2 | 8.720 | 34.473 | | 0.06 | 26.750 | 0.284 | 1487. | 3.6 |
| 149 | 149.9 | 8.720 | 34.477 | | 0.06 | 26.753 | 0.287 | 1487. | 3.9 |
| 151 | 152.1 | 8.720 | 34.486 | | 0.07 | 26.760 | 0.290 | 1487. | 4.5 |
| 153 | 153.9 | 8.760 | 34.505 | | 0.06 | 26.769 | 0.292 | 1487. | 5.1 |
| 155 | 156.1 | 8.849 | 34.542 | | 0.05 | 26.784 | 0.295 | 1488. | 5.5 |
| 157 | 158.0 | 8.882 | 34.585 | | 0.05 | 26.812 | 0.297 | 1488. | 5.6 |
| 159 | 159.9 | 8.815 | 34.629 | | 0.05 | 26.857 | 0.300 | 1488. | 5.5 |
| 161 | 162.1 | 8.788 | 34.651 | | 0.05 | 26.879 | 0.302 | 1488. | 5.2 |
| 163 | 164.0 | 8.787 | 34.657 | | 0.05 | 26.884 | 0.304 | 1488. | 4.8 |
| 165 | 165.9 | 8.773 | 34.658 | | 0.05 | 26.887 | 0.307 | 1488. | 4.2 |
| 167 | 168.0 | 8.767 | 34.662 | | 0.05 | 26.891 | 0.309 | 1488. | 3.6 |
| 169 | 170.0 | 8.687 | 34.663 | | 0.06 | 26.904 | 0.312 | 1487. | 3.4 |
| 171 | 172.2 | 8.619 | 34.663 | | 0.06 | 26.914 | 0.314 | 1487. | 3.4 |
| 172 | 173.8 | 8.539 | 34.659 | | 0.07 | 26.924 | 0.316 | 1487. | 3.3 |
| 175 | 176.0 | 8.536 | 34.662 | | 0.08 | 26.927 | 0.319 | 1487. | 3.3 |
| 176 | 177.8 | 8.546 | 34.667 | | 0.07 | 26.929 | 0.321 | 1487. | 3.3 |
| 178 | 180.0 | 8.570 | 34.677 | | 0.07 | 26.934 | 0.323 | 1487. | 3.5 |
| 181 | 182.2 | 8.519 | 34.678 | | 0.08 | 26.942 | 0.326 | 1487. | 3.7 |
| 182 | 183.9 | 8.493 | 34.689 | | 0.08 | 26.955 | 0.327 | 1487. | 3.9 |
| 184 | 186.0 | 8.500 | 34.706 | | 0.08 | 26.967 | 0.330 | 1487. | 3.9 |
| 187 | 188.1 | 8.532 | 34.729 | | 0.08 | 26.980 | 0.332 | 1487. | 3.9 |
| 188 | 190.0 | 8.575 | 34.748 | | 0.08 | 26.989 | 0.334 | 1487. | 3.8 |
| 191 | 192.1 | 8.612 | 34.765 | | 0.07 | 26.996 | 0.337 | 1488. | 3.6 |
| 192 | 194.0 | 8.605 | 34.765 | | 0.07 | 26.997 | 0.339 | 1488. | 3.5 |
| 194 | 195.8 | 8.567 | 34.774 | | 0.07 | 27.010 | 0.341 | 1488. | 3.3 |
| 196 | 198.1 | 8.553 | 34.779 | | 0.07 | 27.016 | 0.343 | 1488. | 3.2 |
| 198 | 199.9 | 8.545 | 34.785 | | 0.07 | 27.022 | 0.345 | 1488. | 3.0 |
| 200 | 202.1 | 8.543 | 34.797 | | 0.08 | 27.032 | 0.347 | 1488. | 2.9 |
| 202 | 203.9 | 8.544 | 34.798 | | 0.07 | 27.032 | 0.349 | 1488. | 2.6 |

| SHIP OC | CRUISE 181 | STATION 87 | DATE 14 FEB 1987 | EST 0858 | LATITUDE 42°32.3'N | LONGITUDE 67°15.0'W | DEPTH 322 | | |
|------------|---------------|---------------|---------------------|-------------|------------------------|----------------------------|--|--------------|----------|
| DEPTH m | PRESS dbar | TEMP °C | SALIN psu | OXY ml/l | ATN m ⁻¹ | SIGT gm/cm ³ | DYHT A 10m ² /s ² | S SPD m/s | N cph |
| 204 | 206.0 | 8.545 | 34.801 | 0.08 | 27.034 | 0.351 | 1488. | 2.5 | |
| 206 | 208.0 | 8.546 | 34.805 | 0.08 | 27.038 | 0.353 | 1488. | 2.5 | |
| 208 | 210.0 | 8.549 | 34.813 | 0.07 | 27.043 | 0.356 | 1488. | 2.5 | |
| 210 | 212.0 | 8.550 | 34.815 | 0.07 | 27.045 | 0.358 | 1488. | 2.6 | |
| 212 | 214.0 | 8.549 | 34.821 | 0.08 | 27.050 | 0.360 | 1488. | 2.7 | |
| 214 | 216.1 | 8.540 | 34.830 | 0.08 | 27.058 | 0.362 | 1488. | 2.7 | |
| 216 | 217.8 | 8.540 | 34.832 | 0.08 | 27.060 | 0.364 | 1488. | 2.7 | |
| 218 | 220.0 | 8.555 | 34.841 | 0.07 | 27.064 | 0.366 | 1488. | 2.6 | |
| 220 | 222.0 | 8.582 | 34.853 | 0.07 | 27.070 | 0.368 | 1488. | 2.3 | |
| 222 | 224.0 | 8.642 | 34.873 | 0.06 | 27.076 | 0.370 | 1488. | 2.1 | |
| 224 | 226.1 | 8.651 | 34.875 | 0.05 | 27.076 | 0.372 | 1488. | 1.9 | |
| 226 | 228.0 | 8.649 | 34.875 | 0.05 | 27.077 | 0.374 | 1488. | 1.8 | |
| 228 | 229.8 | 8.646 | 34.876 | 0.05 | 27.077 | 0.376 | 1489. | 1.6 | |
| 230 | 232.1 | 8.645 | 34.879 | 0.05 | 27.080 | 0.378 | 1489. | 1.4 | |
| 232 | 233.9 | 8.632 | 34.876 | 0.06 | 27.080 | 0.380 | 1489. | 1.5 | |
| 234 | 236.1 | 8.584 | 34.872 | 0.06 | 27.084 | 0.382 | 1488. | 1.4 | |
| 236 | 237.8 | 8.592 | 34.874 | 0.06 | 27.085 | 0.384 | 1488. | 1.2 | |
| 238 | 240.2 | 8.560 | 34.867 | 0.07 | 27.084 | 0.387 | 1488. | 1.2 | |
| 240 | 241.8 | 8.576 | 34.874 | 0.06 | 27.087 | 0.388 | 1488. | 1.2 | |
| 242 | 244.1 | 8.569 | 34.869 | 0.07 | 27.084 | 0.390 | 1488. | 1.4 | |
| 244 | 246.0 | 8.548 | 34.864 | 0.07 | 27.084 | 0.392 | 1488. | 1.6 | |
| 246 | 248.0 | 8.538 | 34.869 | 0.08 | 27.089 | 0.394 | 1488. | 1.7 | |
| 248 | 249.9 | 8.542 | 34.871 | 0.07 | 27.090 | 0.396 | 1488. | 1.8 | |
| 250 | 252.1 | 8.580 | 34.885 | 0.06 | 27.095 | 0.399 | 1489. | 2.0 | |
| 252 | 254.0 | 8.598 | 34.891 | 0.05 | 27.097 | 0.401 | 1489. | 2.0 | |
| 254 | 256.0 | 8.583 | 34.889 | 0.06 | 27.098 | 0.402 | 1489. | 1.9 | |
| 256 | 257.9 | 8.572 | 34.889 | 0.06 | 27.099 | 0.404 | 1489. | 1.9 | |
| 258 | 260.1 | 8.560 | 34.891 | 0.06 | 27.102 | 0.407 | 1489. | 1.9 | |
| 260 | 261.9 | 8.546 | 34.889 | 0.07 | 27.104 | 0.408 | 1489. | 2.0 | |
| 262 | 263.8 | 8.527 | 34.890 | 0.07 | 27.108 | 0.410 | 1489. | 2.2 | |
| 264 | 266.0 | 8.517 | 34.893 | 0.08 | 27.111 | 0.412 | 1489. | 2.5 | |
| 266 | 268.2 | 8.515 | 34.894 | 0.08 | 27.112 | 0.415 | 1489. | 2.8 | |
| 268 | 269.9 | 8.511 | 34.897 | 0.07 | 27.115 | 0.416 | 1489. | 3.1 | |
| 270 | 272.2 | 8.510 | 34.906 | 0.07 | 27.122 | 0.419 | 1489. | 3.2 | |
| 272 | 273.9 | 8.463 | 34.915 | 0.10 | 27.137 | 0.420 | 1489. | 3.2 | |
| 274 | 276.0 | 8.436 | 34.919 | 0.12 | 27.144 | 0.422 | 1489. | 3.2 | |
| 276 | 278.0 | 8.420 | 34.923 | 0.14 | 27.150 | 0.424 | 1489. | 3.0 | |
| 278 | 280.1 | 8.415 | 34.924 | 0.15 | 27.151 | 0.426 | 1489. | 2.7 | |
| 280 | 282.0 | 8.409 | 34.925 | 0.16 | 27.153 | 0.428 | 1489. | 2.2 | |
| 282 | 284.2 | 8.388 | 34.929 | 0.22 | 27.159 | 0.430 | 1489. | 1.9 | |
| 284 | 286.1 | 8.384 | 34.931 | 0.22 | 27.161 | 0.432 | 1489. | 1.7 | |
| 285 | 287.8 | 8.384 | 34.931 | 0.23 | 27.161 | 0.434 | 1489. | 1.5 | |
| 288 | 290.0 | 8.384 | 34.931 | 0.25 | 27.162 | 0.436 | 1489. | 1.2 | |
| 289 | 291.9 | 8.382 | 34.932 | 0.24 | 27.162 | 0.437 | 1489. | 0.9 | |
| 292 | 294.1 | 8.382 | 34.931 | 0.25 | 27.162 | 0.440 | 1489. | 0.7 | |
| 294 | 296.1 | 8.379 | 34.932 | 0.26 | 27.163 | 0.441 | 1489. | 0.7 | |
| 295 | 297.7 | 8.378 | 34.932 | 0.26 | 27.163 | 0.443 | 1489. | 0.6 | |
| 297 | 300.0 | 8.379 | 34.932 | 0.28 | 27.163 | 0.445 | 1489. | 0.6 | |
| 300 | 302.2 | 8.379 | 34.932 | 0.26 | 27.163 | 0.447 | 1489. | 0.5 | |
| 301 | 303.2 | 8.379 | 34.932 | 0.26 | 27.163 | 0.448 | 1489. | 0.5 | |

| SHIP OC | CRUISE 181 | STATION 87 | DATE 14 FEB 1987 | EST 0858 | LATITUDE 42°32.3'N | LONGITUDE 67°15.0'W | DEPTH 322 | | |
|------------|---------------|---------------|---------------------|-------------|------------------------|----------------------------|--|--------------|----------|
| DEPTH m | PRESS dbar | TEMP °C | SALIN psu | OXY ml/l | ATN m ⁻¹ | SIGT gm/cm ³ | DYHT A 10m ² /s ² | S SPD m/s | N cph |
| 301 | 304.0 | 8.379 | 34.932 | 0.28 | 27.163 | 0.449 | 1489. | 0.5 | |
| 302 | 305.0 | 8.378 | 34.932 | 0.30 | 27.163 | 0.450 | 1489. | 0.5 | |
| 303 | 306.1 | 8.377 | 34.932 | 0.30 | 27.164 | 0.451 | 1489. | 0.5 | |
| 304 | 307.1 | 8.377 | 34.933 | 0.29 | 27.164 | 0.452 | 1489. | 0.4 | |
| 305 | 307.9 | 8.378 | 34.933 | 0.28 | 27.164 | 0.453 | 1489. | 0.3 | |
| 306 | 309.1 | 8.378 | 34.932 | 0.29 | 27.163 | 0.454 | 1489. | 0.3 | |
| 307 | 310.0 | 8.378 | 34.932 | 0.30 | 27.163 | 0.455 | 1489. | 0.3 | |
| 308 | 311.0 | 8.378 | 34.932 | 0.30 | 27.163 | 0.456 | 1489. | 0.3 | |
| 309 | 312.0 | 8.378 | 34.933 | 0.30 | 27.164 | 0.457 | 1489. | 0.3 | |
| 310 | 312.8 | 8.378 | 34.932 | 0.29 | 27.164 | 0.457 | 1489. | 0.3 | |

SHIP CRUISE STATION DATE EST LATITUDE LONGITUDE DEPTH
 OC 181 88 14 FEB 1987 1134 42°32.2'N 67°29.0'W 280

| DEPTH | PRESS | TEMP | SALIN | OXY | ATN | SIGT | DYHT A | S SPD | N |
|-------|-------|-------|--------|------|-----------------|--------------------|----------------------------------|-------|-----|
| m | dbar | °C | psu | ml/l | m ⁻¹ | gm/cm ³ | 10m ² /s ² | m/s | cph |
| 7 | 6.6 | 4.153 | 32.648 | | 0.10 | 25.900 | 0.000 | 1464. | 3.9 |
| 8 | 8.0 | 4.158 | 32.648 | | 0.10 | 25.900 | 0.003 | 1464. | 3.9 |
| 10 | 10.1 | 4.153 | 32.648 | | 0.10 | 25.900 | 0.007 | 1464. | 3.9 |
| 12 | 12.0 | 4.156 | 32.649 | | 0.10 | 25.901 | 0.011 | 1464. | 3.9 |
| 14 | 14.0 | 4.161 | 32.650 | | 0.10 | 25.901 | 0.015 | 1464. | 3.9 |
| 16 | 15.9 | 4.180 | 32.657 | | 0.10 | 25.905 | 0.019 | 1465. | 4.4 |
| 18 | 18.3 | 4.293 | 32.696 | | 0.10 | 25.924 | 0.024 | 1465. | 4.6 |
| 20 | 19.7 | 4.428 | 32.742 | | 0.10 | 25.947 | 0.027 | 1466. | 4.6 |
| 22 | 21.9 | 4.970 | 32.870 | | 0.08 | 25.990 | 0.032 | 1468. | 4.4 |
| 24 | 24.2 | 4.983 | 32.867 | | 0.08 | 25.987 | 0.036 | 1468. | 4.0 |
| 26 | 25.9 | 4.975 | 32.864 | | 0.08 | 25.985 | 0.040 | 1468. | 3.1 |
| 28 | 27.9 | 4.959 | 32.863 | | 0.08 | 25.986 | 0.044 | 1468. | 2.1 |
| 30 | 30.1 | 4.984 | 32.870 | | 0.08 | 25.989 | 0.048 | 1468. | 0.7 |
| 32 | 31.8 | 5.006 | 32.873 | | 0.08 | 25.989 | 0.052 | 1469. | 1.2 |
| 34 | 34.3 | 5.019 | 32.875 | | 0.08 | 25.989 | 0.057 | 1469. | 1.3 |
| 36 | 36.0 | 5.037 | 32.879 | | 0.08 | 25.990 | 0.060 | 1469. | 1.4 |
| 38 | 38.0 | 5.056 | 32.881 | | 0.08 | 25.990 | 0.064 | 1469. | 1.5 |
| 40 | 40.1 | 5.091 | 32.892 | | 0.07 | 25.994 | 0.068 | 1469. | 1.5 |
| 42 | 42.0 | 5.143 | 32.901 | | 0.07 | 25.995 | 0.072 | 1469. | 2.4 |
| 44 | 43.9 | 5.166 | 32.906 | | 0.07 | 25.997 | 0.076 | 1469. | 2.7 |
| 46 | 46.2 | 5.229 | 32.920 | | 0.07 | 26.001 | 0.080 | 1470. | 2.8 |
| 47 | 47.9 | 5.284 | 32.934 | | 0.07 | 26.006 | 0.084 | 1470. | 2.8 |
| 50 | 49.9 | 5.424 | 32.978 | | 0.06 | 26.025 | 0.088 | 1471. | 2.9 |
| 52 | 52.1 | 5.567 | 32.999 | | 0.06 | 26.024 | 0.092 | 1471. | 3.6 |
| 54 | 54.0 | 5.564 | 32.998 | | 0.06 | 26.024 | 0.096 | 1471. | 4.6 |
| 56 | 56.1 | 5.661 | 33.020 | | 0.06 | 26.029 | 0.100 | 1472. | 5.0 |
| 57 | 57.8 | 5.732 | 33.042 | | 0.06 | 26.038 | 0.104 | 1472. | 5.3 |
| 59 | 60.0 | 5.990 | 33.135 | | 0.05 | 26.080 | 0.108 | 1473. | 6.0 |
| 62 | 62.0 | 6.297 | 33.256 | | 0.05 | 26.138 | 0.112 | 1475. | 6.4 |
| 64 | 64.0 | 6.414 | 33.268 | | 0.05 | 26.132 | 0.115 | 1475. | 6.5 |
| 66 | 66.1 | 6.439 | 33.285 | | 0.05 | 26.142 | 0.119 | 1475. | 6.2 |
| 67 | 68.0 | 6.735 | 33.415 | | 0.06 | 26.206 | 0.123 | 1477. | 5.6 |
| 69 | 70.0 | 6.823 | 33.446 | | 0.06 | 26.219 | 0.126 | 1477. | 5.0 |
| 71 | 71.8 | 6.860 | 33.466 | | 0.06 | 26.230 | 0.130 | 1477. | 4.9 |
| 74 | 74.1 | 6.919 | 33.484 | | 0.06 | 26.236 | 0.134 | 1478. | 4.4 |
| 75 | 76.1 | 6.932 | 33.489 | | 0.06 | 26.238 | 0.137 | 1478. | 3.8 |
| 77 | 78.0 | 6.968 | 33.508 | | 0.06 | 26.248 | 0.141 | 1478. | 3.8 |
| 79 | 79.9 | 7.034 | 33.537 | | 0.06 | 26.262 | 0.144 | 1478. | 3.8 |
| 82 | 82.2 | 7.090 | 33.561 | | 0.06 | 26.273 | 0.148 | 1479. | 3.7 |
| 83 | 83.9 | 7.119 | 33.577 | | 0.06 | 26.282 | 0.151 | 1479. | 3.5 |
| 86 | 86.4 | 7.146 | 33.595 | | 0.06 | 26.292 | 0.155 | 1479. | 3.5 |
| 87 | 87.9 | 7.159 | 33.601 | | 0.06 | 26.295 | 0.158 | 1479. | 2.7 |
| 89 | 90.2 | 7.162 | 33.602 | | 0.06 | 26.296 | 0.162 | 1479. | 2.6 |
| 91 | 91.7 | 7.163 | 33.603 | | 0.06 | 26.296 | 0.165 | 1479. | 2.5 |
| 93 | 94.0 | 7.165 | 33.606 | | 0.06 | 26.298 | 0.168 | 1479. | 2.5 |
| 95 | 95.9 | 7.173 | 33.615 | | 0.06 | 26.304 | 0.172 | 1479. | 2.5 |
| 97 | 98.0 | 7.199 | 33.633 | | 0.07 | 26.315 | 0.175 | 1479. | 2.5 |
| 99 | 100.0 | 7.219 | 33.640 | | 0.06 | 26.318 | 0.179 | 1479. | 2.3 |
| 101 | 101.9 | 7.228 | 33.644 | | 0.07 | 26.319 | 0.182 | 1480. | 2.1 |
| 103 | 104.3 | 7.231 | 33.646 | | 0.07 | 26.321 | 0.186 | 1480. | 1.7 |

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SHIP CRUISE STATION DATE EST LATITUDE LONGITUDE DEPTH
 OC 181 88 14 FEB 1987 1134 42°32.2'N 67°29.0'W 280

| DEPTH | PRESS | TEMP | SALIN | OXY | ATN | SIGT | DYHT A | S SPD | N |
|-------|-------|-------|--------|------|-----------------|--------------------|----------------------------------|-------|-----|
| m | dbar | °C | psu | ml/l | m ⁻¹ | gm/cm ³ | 10m ² /s ² | m/s | cph |
| 105 | 105.9 | 7.224 | 33.646 | | 0.07 | 26.321 | 0.189 | 1480. | 1.3 |
| 107 | 108.0 | 7.218 | 33.645 | | 0.07 | 26.322 | 0.193 | 1480. | 1.7 |
| 109 | 110.1 | 7.209 | 33.643 | | 0.07 | 26.322 | 0.196 | 1480. | 2.3 |
| 111 | 112.0 | 7.204 | 33.644 | | 0.07 | 26.323 | 0.199 | 1480. | 3.1 |
| 113 | 113.9 | 7.208 | 33.647 | | 0.07 | 26.325 | 0.203 | 1480. | 3.5 |
| 115 | 116.2 | 7.246 | 33.671 | | 0.07 | 26.339 | 0.206 | 1480. | 4.0 |
| 117 | 117.9 | 7.287 | 33.702 | | 0.07 | 26.357 | 0.209 | 1480. | 4.2 |
| 119 | 120.2 | 7.329 | 33.732 | | 0.08 | 26.375 | 0.213 | 1480. | 4.5 |
| 121 | 121.7 | 7.347 | 33.741 | | 0.08 | 26.380 | 0.216 | 1480. | 4.6 |
| 123 | 124.1 | 7.389 | 33.766 | | 0.08 | 26.393 | 0.220 | 1481. | 4.4 |
| 125 | 125.9 | 7.426 | 33.785 | | 0.08 | 26.403 | 0.223 | 1481. | 4.1 |
| 127 | 128.0 | 7.475 | 33.820 | | 0.08 | 26.423 | 0.226 | 1481. | 4.0 |
| 129 | 129.8 | 7.494 | 33.834 | | 0.09 | 26.432 | 0.229 | 1481. | 4.1 |
| 131 | 132.3 | 7.512 | 33.843 | | 0.09 | 26.436 | 0.233 | 1481. | 4.1 |
| 133 | 133.9 | 7.527 | 33.853 | | 0.09 | 26.442 | 0.235 | 1481. | 4.4 |
| 135 | 136.2 | 7.577 | 33.879 | | 0.09 | 26.455 | 0.239 | 1482. | 4.6 |
| 137 | 137.9 | 7.614 | 33.905 | | 0.09 | 26.471 | 0.242 | 1482. | 4.9 |
| 139 | 140.2 | 7.677 | 33.936 | | 0.09 | 26.486 | 0.245 | 1482. | 5.3 |
| 141 | 141.9 | 7.767 | 33.990 | | 0.10 | 26.515 | 0.248 | 1483. | 5.4 |
| 143 | 144.0 | 7.783 | 34.014 | | 0.10 | 26.532 | 0.251 | 1483. | 5.9 |
| 145 | 146.1 | 7.782 | 34.038 | | 0.11 | 26.551 | 0.254 | 1483. | 6.5 |
| 147 | 148.0 | 7.881 | 34.080 | | 0.11 | 26.569 | 0.257 | 1483. | 7.3 |
| 149 | 150.0 | 7.965 | 34.117 | | 0.11 | 26.585 | 0.260 | 1484. | 7.8 |
| 151 | 152.0 | 8.123 | 34.234 | | 0.11 | 26.654 | 0.263 | 1484. | 8.2 |
| 153 | 153.9 | 8.212 | 34.318 | | 0.11 | 26.707 | 0.266 | 1485. | 8.1 |
| 155 | 156.1 | 8.338 | 34.438 | | 0.11 | 26.782 | 0.268 | 1486. | 7.8 |
| 157 | 158.0 | 8.365 | 34.481 | | 0.12 | 26.811 | 0.271 | 1486. | 7.2 |
| 159 | 160.0 | 8.380 | 34.514 | | 0.13 | 26.835 | 0.273 | 1486. | 6.1 |
| 161 | 162.1 | 8.391 | 34.526 | | 0.13 | 26.842 | 0.276 | 1486. | 4.9 |
| 163 | 163.9 | 8.396 | 34.532 | | 0.13 | 26.847 | 0.278 | 1486. | 3.8 |
| 165 | 166.0 | 8.402 | 34.542 | | 0.13 | 26.853 | 0.281 | 1486. | 3.7 |
| 166 | 167.9 | 8.412 | 34.548 | | 0.13 | 26.857 | 0.283 | 1486. | 3.8 |
| 169 | 170.0 | 8.429 | 34.550 | | 0.13 | 26.856 | 0.286 | 1486. | 4.0 |
| 171 | 172.2 | 8.455 | 34.579 | | 0.12 | 26.874 | 0.288 | 1486. | 4.2 |
| 172 | 173.8 | 8.534 | 34.630 | | 0.11 | 26.902 | 0.290 | 1487. | 4.3 |
| 175 | 176.2 | 8.581 | 34.651 | | 0.10 | 26.911 | 0.293 | 1487. | 4.5 |
| 176 | 178.0 | 8.594 | 34.664 | | 0.10 | 26.920 | 0.295 | 1487. | 4.5 |
| 179 | 180.3 | 8.599 | 34.677 | | 0.10 | 26.929 | 0.298 | 1487. | 4.2 |
| 180 | 181.8 | 8.595 | 34.686 | | 0.10 | 26.937 | 0.299 | 1487. | 3.9 |
| 183 | 184.2 | 8.527 | 34.700 | | 0.12 | 26.958 | 0.302 | 1487. | 3.9 |
| 184 | 185.8 | 8.503 | 34.705 | | 0.12 | 26.966 | 0.304 | 1487. | 4.0 |
| 187 | 188.1 | 8.492 | 34.704 | | 0.13 | 26.967 | 0.306 | 1487. | 4.5 |
| 188 | 189.7 | 8.487 | 34.708 | | 0.13 | 26.971 | 0.308 | 1487. | 4.9 |
| 191 | 192.2 | 8.494 | 34.732 | | 0.14 | 26.988 | 0.311 | 1487. | 5.2 |
| 192 | 193.9 | 8.486 | 34.757 | | 0.15 | 27.009 | 0.313 | 1487. | 5.4 |
| 194 | 196.0 | 8.483 | 34.806 | | 0.15 | 27.048 | 0.315 | 1487. | 5.5 |
| 196 | 197.9 | 8.489 | 34.832 | | 0.14 | 27.067 | 0.317 | 1487. | 5.2 |
| 198 | 200.2 | 8.496 | 34.858 | | 0.14 | 27.087 | 0.319 | 1487. | 4.8 |
| 200 | 201.9 | 8.498 | 34.866 | | 0.13 | 27.093 | 0.321 | 1487. | 4.2 |
| 202 | 204.1 | 8.499 | 34.873 | | 0.13 | 27.099 | 0.323 | 1488. | 3.9 |

| SHIP OC | CRUISE 181 | STATION 88 | DATE 14 FEB 1987 | EST 1134 | LATITUDE 42°32.2'N | LONGITUDE 67°29.0'W | DEPTH 280 | | |
|---------|------------|------------|------------------|----------|---------------------|-------------------------|---|-----------|-------|
| DEPTH m | PRESS dbar | TEMP °C | SALIN psu | OXY ml/l | ATN m ⁻¹ | SIGT gm/cm ³ | DYHT A 10m ² /s ² | S SPD m/s | N cph |
| 204 | 206.2 | 8.499 | 34.876 | 0.13 | 27.101 | 0.325 | 1488. | 3.8 | |
| 206 | 208.0 | 8.497 | 34.881 | 0.12 | 27.105 | 0.327 | 1488. | 3.8 | |
| 208 | 209.8 | 8.489 | 34.895 | 0.11 | 27.117 | 0.329 | 1488. | 3.7 | |
| 210 | 212.1 | 8.467 | 34.925 | 0.10 | 27.144 | 0.331 | 1488. | 3.6 | |
| 212 | 214.0 | 8.463 | 34.932 | 0.09 | 27.150 | 0.333 | 1488. | 3.3 | |
| 214 | 216.0 | 8.463 | 34.933 | 0.09 | 27.151 | 0.335 | 1488. | 2.8 | |
| 216 | 217.9 | 8.466 | 34.933 | 0.09 | 27.150 | 0.337 | 1488. | 2.0 | |
| 218 | 220.1 | 8.470 | 34.933 | 0.09 | 27.149 | 0.339 | 1488. | 0.7 | |
| 220 | 222.0 | 8.470 | 34.933 | 0.09 | 27.150 | 0.340 | 1488. | -0.2 | |
| 222 | 223.9 | 8.470 | 34.933 | 0.09 | 27.149 | 0.342 | 1488. | 0.6 | |
| 224 | 226.1 | 8.471 | 34.932 | 0.09 | 27.149 | 0.344 | 1488. | 1.2 | |
| 226 | 227.9 | 8.470 | 34.933 | 0.09 | 27.150 | 0.346 | 1488. | 1.6 | |
| 228 | 230.0 | 8.462 | 34.932 | 0.09 | 27.150 | 0.348 | 1488. | 1.8 | |
| 230 | 231.9 | 8.441 | 34.932 | 0.10 | 27.154 | 0.350 | 1488. | 1.9 | |
| 232 | 234.0 | 8.399 | 34.931 | 0.13 | 27.160 | 0.352 | 1488. | 1.9 | |
| 234 | 236.1 | 8.385 | 34.932 | 0.14 | 27.162 | 0.354 | 1488. | 1.8 | |
| 236 | 238.0 | 8.376 | 34.932 | 0.14 | 27.164 | 0.356 | 1488. | 1.8 | |
| 238 | 240.0 | 8.378 | 34.932 | 0.14 | 27.163 | 0.357 | 1488. | 1.7 | |
| 240 | 242.1 | 8.381 | 34.932 | 0.14 | 27.163 | 0.359 | 1488. | 1.5 | |
| 242 | 244.0 | 8.367 | 34.932 | 0.16 | 27.165 | 0.361 | 1488. | 1.4 | |
| 244 | 246.0 | 8.346 | 34.933 | 0.18 | 27.169 | 0.363 | 1488. | 1.4 | |
| 246 | 248.0 | 8.338 | 34.933 | 0.19 | 27.170 | 0.365 | 1488. | 1.4 | |
| 248 | 250.3 | 8.337 | 34.933 | 0.19 | 27.171 | 0.367 | 1488. | 1.3 | |
| 250 | 251.9 | 8.335 | 34.934 | 0.19 | 27.171 | 0.369 | 1488. | 1.1 | |
| 252 | 254.1 | 8.331 | 34.933 | 0.20 | 27.171 | 0.371 | 1488. | 0.8 | |
| 254 | 255.7 | 8.329 | 34.933 | 0.20 | 27.172 | 0.372 | 1488. | 0.7 | |
| 256 | 258.4 | 8.328 | 34.933 | 0.21 | 27.172 | 0.375 | 1488. | 0.6 | |
| 258 | 259.8 | 8.327 | 34.934 | 0.21 | 27.172 | 0.376 | 1488. | 0.5 | |
| 260 | 262.0 | 8.327 | 34.934 | 0.21 | 27.172 | 0.378 | 1488. | 0.4 | |
| 261 | 263.2 | 8.328 | 34.933 | 0.20 | 27.172 | 0.379 | 1488. | 0.3 | |
| 262 | 263.9 | 8.328 | 34.933 | 0.20 | 27.172 | 0.380 | 1488. | 0.1 | |
| 263 | 265.1 | 8.328 | 34.933 | 0.21 | 27.172 | 0.381 | 1488. | 0.2 | |
| 264 | 266.0 | 8.328 | 34.933 | 0.21 | 27.172 | 0.382 | 1488. | 0.3 | |
| 265 | 267.0 | 8.328 | 34.934 | 0.21 | 27.172 | 0.383 | 1488. | 0.4 | |
| 266 | 268.1 | 8.328 | 34.934 | 0.21 | 27.172 | 0.384 | 1488. | 0.4 | |
| 267 | 269.0 | 8.328 | 34.934 | 0.21 | 27.172 | 0.385 | 1488. | 0.4 | |
| 268 | 269.9 | 8.329 | 34.934 | 0.21 | 27.172 | 0.385 | 1488. | 0.4 | |
| 269 | 271.1 | 8.329 | 34.934 | 0.21 | 27.172 | 0.387 | 1488. | 0.4 | |
| 270 | 272.1 | 8.329 | 34.934 | 0.21 | 27.172 | 0.387 | 1488. | 0.4 | |
| 270 | 272.7 | 8.329 | 34.934 | 0.21 | 27.172 | 0.388 | 1488. | 0.4 | |

| SHIP OC | CRUISE 181 | STATION 89 | DATE 14 FEB 1987 | EST 1410 | LATITUDE 42°32.4'N | LONGITUDE 67°44.8'W | DEPTH 233 | | |
|---------|------------|------------|------------------|----------|---------------------|-------------------------|---|-----------|-------|
| DEPTH m | PRESS dbar | TEMP °C | SALIN psu | OXY ml/l | ATN m ⁻¹ | SIGT gm/cm ³ | DYHT A 10m ² /s ² | S SPD m/s | N cph |
| 2 | 2.3 | 4.501 | 32.702 | 0.09 | 25.908 | 0.000 | 1466. | -0.6 | |
| 4 | 4.1 | 4.506 | 32.702 | 0.09 | 25.907 | 0.004 | 1466. | -0.6 | |
| 6 | 6.1 | 4.514 | 32.702 | 0.09 | 25.906 | 0.008 | 1466. | -0.6 | |
| 8 | 7.9 | 4.522 | 32.702 | 0.09 | 25.905 | 0.012 | 1466. | -0.6 | |
| 10 | 10.1 | 4.517 | 32.702 | 0.09 | 25.906 | 0.016 | 1466. | -0.6 | |
| 12 | 12.1 | 4.522 | 32.702 | 0.09 | 25.905 | 0.020 | 1466. | -0.4 | |
| 14 | 14.0 | 4.523 | 32.702 | 0.09 | 25.905 | 0.024 | 1466. | -0.2 | |
| 16 | 16.0 | 4.524 | 32.702 | 0.09 | 25.905 | 0.029 | 1466. | 0.2 | |
| 18 | 17.8 | 4.523 | 32.703 | 0.09 | 25.906 | 0.032 | 1466. | -0.1 | |
| 20 | 20.2 | 4.529 | 32.703 | 0.09 | 25.906 | 0.038 | 1466. | 0.2 | |
| 22 | 21.8 | 4.538 | 32.705 | 0.09 | 25.906 | 0.041 | 1466. | -0.1 | |
| 24 | 24.1 | 4.539 | 32.705 | 0.09 | 25.906 | 0.046 | 1466. | -0.3 | |
| 26 | 26.1 | 4.540 | 32.704 | 0.09 | 25.905 | 0.050 | 1466. | -0.3 | |
| 28 | 27.7 | 4.540 | 32.705 | 0.09 | 25.906 | 0.053 | 1466. | -0.4 | |
| 30 | 30.1 | 4.540 | 32.704 | 0.09 | 25.905 | 0.058 | 1466. | -0.2 | |
| 32 | 31.8 | 4.538 | 32.703 | 0.09 | 25.905 | 0.062 | 1466. | 0.3 | |
| 34 | 34.1 | 4.543 | 32.705 | 0.09 | 25.905 | 0.066 | 1466. | 0.5 | |
| 35 | 35.7 | 4.539 | 32.704 | 0.09 | 25.905 | 0.070 | 1466. | 0.5 | |
| 38 | 38.1 | 4.544 | 32.706 | 0.09 | 25.906 | 0.075 | 1467. | 0.5 | |
| 39 | 39.6 | 4.547 | 32.706 | 0.09 | 25.906 | 0.078 | 1467. | 0.5 | |
| 42 | 42.2 | 4.558 | 32.708 | 0.09 | 25.906 | 0.083 | 1467. | 0.5 | |
| 43 | 43.7 | 4.557 | 32.708 | 0.09 | 25.906 | 0.087 | 1467. | 0.6 | |
| 46 | 46.2 | 4.555 | 32.707 | 0.09 | 25.906 | 0.092 | 1467. | 0.9 | |
| 47 | 47.8 | 4.553 | 32.707 | 0.09 | 25.906 | 0.095 | 1467. | 1.0 | |
| 50 | 50.2 | 4.563 | 32.710 | 0.09 | 25.907 | 0.100 | 1467. | 1.1 | |
| 51 | 51.9 | 4.567 | 32.711 | 0.09 | 25.908 | 0.104 | 1467. | 1.3 | |
| 54 | 54.1 | 4.601 | 32.720 | 0.09 | 25.911 | 0.108 | 1467. | 1.6 | |
| 55 | 55.7 | 4.601 | 32.719 | 0.09 | 25.911 | 0.112 | 1467. | 1.6 | |
| 58 | 58.0 | 4.617 | 32.721 | 0.08 | 25.910 | 0.116 | 1467. | 1.7 | |
| 59 | 59.9 | 4.660 | 32.734 | 0.08 | 25.916 | 0.120 | 1467. | 1.9 | |
| 62 | 62.1 | 4.698 | 32.743 | 0.08 | 25.920 | 0.125 | 1468. | 2.6 | |
| 63 | 63.8 | 4.694 | 32.741 | 0.08 | 25.918 | 0.128 | 1468. | 3.0 | |
| 66 | 66.0 | 4.705 | 32.745 | 0.08 | 25.920 | 0.133 | 1468. | 3.6 | |
| 67 | 67.8 | 4.753 | 32.762 | 0.08 | 25.928 | 0.137 | 1468. | 4.1 | |
| 70 | 70.2 | 4.967 | 32.825 | 0.07 | 25.955 | 0.142 | 1469. | 4.7 | |
| 71 | 71.7 | 4.992 | 32.835 | 0.07 | 25.960 | 0.145 | 1469. | 5.2 | |
| 74 | 74.2 | 5.107 | 32.880 | 0.07 | 25.983 | 0.150 | 1470. | 5.8 | |
| 75 | 75.8 | 5.157 | 32.907 | 0.07 | 25.999 | 0.153 | 1470. | 6.0 | |
| 77 | 78.1 | 5.296 | 32.974 | 0.07 | 26.036 | 0.158 | 1471. | 6.1 | |
| 79 | 79.8 | 5.337 | 32.997 | 0.07 | 26.049 | 0.161 | 1471. | 6.1 | |
| 81 | 82.1 | 5.539 | 33.090 | 0.07 | 26.099 | 0.165 | 1472. | 6.0 | |
| 83 | 84.0 | 5.695 | 33.132 | 0.07 | 26.114 | 0.169 | 1473. | 5.7 | |
| 85 | 86.0 | 5.801 | 33.164 | 0.07 | 26.127 | 0.173 | 1473. | 5.5 | |
| 87 | 88.0 | 5.906 | 33.197 | 0.07 | 26.140 | 0.177 | 1474. | 5.2 | |
| 89 | 90.1 | 6.074 | 33.245 | 0.07 | 26.157 | 0.180 | 1474. | 4.8 | |
| 91 | 92.0 | 6.215 | 33.280 | 0.07 | 26.167 | 0.184 | 1475. | 4.7 | |
| 93 | 93.9 | 6.355 | 33.343 | 0.07 | 26.199 | 0.188 | 1476. | 4.9 | |
| 95 | 96.1 | 6.472 | 33.368 | 0.07 | 26.203 | 0.191 | 1476. | 5.2 | |
| 97 | 97.9 | 6.494 | 33.376 | 0.07 | 26.207 | 0.195 | 1476. | 5.3 | |
| 99 | 99.9 | 6.584 | 33.414 | 0.07 | 26.225 | 0.198 | 1477. | 5.4 | |

| SHIP OC | CRUISE 181 | STATION 89 | DATE 14 FEB 1987 | EST 1410 | LATITUDE 42°32.4'N | LONGITUDE 67°44.8'W | DEPTH 233 | | | | | | | | | |
|------------|---------------|---------------|---------------------|-------------|------------------------|----------------------------|--|--------------|----------|--|--|--|--|--|--|--|
| DEPTH m | PRESS dbar | TEMP °C | SALIN psu | OXY ml/l | ATN m ⁻¹ | SIGT gm/cm ³ | DYHT A 10m ² /s ² | S SPD m/s | N cph | | | | | | | |
| 101 | 102.0 | 6.761 | 33.484 | | 0.08 | 26.257 | 0.202 | 1477. | 5.3 | | | | | | | |
| 103 | 103.9 | 6.964 | 33.559 | | 0.08 | 26.289 | 0.205 | 1478. | 5.2 | | | | | | | |
| 105 | 106.1 | 7.076 | 33.599 | | 0.09 | 26.305 | 0.209 | 1479. | 4.9 | | | | | | | |
| 107 | 107.9 | 7.108 | 33.617 | | 0.09 | 26.315 | 0.212 | 1479. | 4.4 | | | | | | | |
| 109 | 110.1 | 7.152 | 33.635 | | 0.10 | 26.323 | 0.216 | 1479. | 4.1 | | | | | | | |
| 111 | 112.0 | 7.157 | 33.636 | | 0.10 | 26.323 | 0.219 | 1479. | 4.2 | | | | | | | |
| 113 | 114.1 | 7.164 | 33.640 | | 0.10 | 26.325 | 0.223 | 1479. | 4.6 | | | | | | | |
| 115 | 115.9 | 7.219 | 33.668 | | 0.10 | 26.339 | 0.226 | 1480. | 4.9 | | | | | | | |
| 117 | 117.8 | 7.302 | 33.718 | | 0.11 | 26.367 | 0.229 | 1480. | 5.2 | | | | | | | |
| 119 | 120.3 | 7.346 | 33.769 | | 0.12 | 26.402 | 0.233 | 1480. | 5.6 | | | | | | | |
| 121 | 121.8 | 7.352 | 33.788 | | 0.12 | 26.415 | 0.236 | 1480. | 5.8 | | | | | | | |
| 123 | 124.0 | 7.358 | 33.802 | | 0.13 | 26.426 | 0.239 | 1481. | 5.9 | | | | | | | |
| 125 | 125.8 | 7.375 | 33.823 | | 0.13 | 26.440 | 0.242 | 1481. | 6.0 | | | | | | | |
| 127 | 128.0 | 7.444 | 33.890 | | 0.14 | 26.482 | 0.246 | 1481. | 6.2 | | | | | | | |
| 129 | 129.9 | 7.482 | 33.910 | | 0.14 | 26.494 | 0.249 | 1481. | 6.5 | | | | | | | |
| 131 | 132.1 | 7.557 | 33.972 | | 0.14 | 26.531 | 0.252 | 1482. | 6.7 | | | | | | | |
| 133 | 134.0 | 7.595 | 34.015 | | 0.15 | 26.559 | 0.255 | 1482. | 6.6 | | | | | | | |
| 135 | 135.8 | 7.678 | 34.076 | | 0.14 | 26.595 | 0.257 | 1482. | 6.2 | | | | | | | |
| 137 | 138.2 | 7.782 | 34.137 | | 0.14 | 26.629 | 0.261 | 1483. | 6.3 | | | | | | | |
| 139 | 140.1 | 7.834 | 34.167 | | 0.14 | 26.644 | 0.264 | 1483. | 6.2 | | | | | | | |
| 141 | 142.0 | 7.866 | 34.182 | | 0.13 | 26.651 | 0.266 | 1483. | 6.0 | | | | | | | |
| 143 | 144.0 | 7.892 | 34.194 | | 0.13 | 26.657 | 0.269 | 1483. | 5.7 | | | | | | | |
| 145 | 146.0 | 8.044 | 34.302 | | 0.12 | 26.719 | 0.272 | 1484. | 5.5 | | | | | | | |
| 147 | 148.0 | 8.133 | 34.342 | | 0.11 | 26.738 | 0.275 | 1485. | 5.4 | | | | | | | |
| 149 | 149.9 | 8.177 | 34.369 | | 0.11 | 26.752 | 0.277 | 1485. | 5.5 | | | | | | | |
| 151 | 152.2 | 8.190 | 34.374 | | 0.11 | 26.754 | 0.280 | 1485. | 5.4 | | | | | | | |
| 153 | 153.9 | 8.209 | 34.389 | | 0.11 | 26.763 | 0.282 | 1485. | 5.0 | | | | | | | |
| 155 | 156.1 | 8.240 | 34.424 | | 0.11 | 26.786 | 0.285 | 1485. | 4.9 | | | | | | | |
| 157 | 158.1 | 8.303 | 34.486 | | 0.11 | 26.825 | 0.288 | 1486. | 4.8 | | | | | | | |
| 159 | 159.9 | 8.335 | 34.502 | | 0.11 | 26.832 | 0.290 | 1486. | 4.7 | | | | | | | |
| 161 | 162.0 | 8.366 | 34.517 | | 0.11 | 26.840 | 0.292 | 1486. | 4.8 | | | | | | | |
| 163 | 163.9 | 8.352 | 34.521 | | 0.11 | 26.844 | 0.295 | 1486. | 4.7 | | | | | | | |
| 165 | 166.2 | 8.366 | 34.537 | | 0.11 | 26.855 | 0.298 | 1486. | 4.7 | | | | | | | |
| 166 | 167.7 | 8.383 | 34.552 | | 0.11 | 26.864 | 0.299 | 1486. | 4.9 | | | | | | | |
| 169 | 170.2 | 8.449 | 34.617 | | 0.11 | 26.905 | 0.302 | 1486. | 5.0 | | | | | | | |
| 171 | 172.0 | 8.456 | 34.636 | | 0.11 | 26.919 | 0.304 | 1487. | 4.9 | | | | | | | |
| 172 | 173.9 | 8.462 | 34.653 | | 0.11 | 26.932 | 0.307 | 1487. | 4.6 | | | | | | | |
| 175 | 176.0 | 8.475 | 34.671 | | 0.11 | 26.943 | 0.309 | 1487. | 4.1 | | | | | | | |
| 176 | 177.9 | 8.478 | 34.680 | | 0.12 | 26.950 | 0.311 | 1487. | 3.5 | | | | | | | |
| 178 | 179.9 | 8.478 | 34.688 | | 0.12 | 26.956 | 0.313 | 1487. | 3.2 | | | | | | | |
| 181 | 182.1 | 8.471 | 34.689 | | 0.12 | 26.958 | 0.316 | 1487. | 2.8 | | | | | | | |
| 182 | 183.9 | 8.467 | 34.692 | | 0.13 | 26.962 | 0.318 | 1487. | 2.5 | | | | | | | |
| 185 | 186.1 | 8.475 | 34.706 | | 0.12 | 26.971 | 0.320 | 1487. | 2.3 | | | | | | | |
| 186 | 188.0 | 8.484 | 34.710 | | 0.12 | 26.973 | 0.322 | 1487. | 2.2 | | | | | | | |
| 189 | 190.2 | 8.481 | 34.710 | | 0.12 | 26.973 | 0.325 | 1487. | 2.2 | | | | | | | |
| 190 | 191.8 | 8.484 | 34.712 | | 0.12 | 26.974 | 0.327 | 1487. | 2.4 | | | | | | | |
| 192 | 194.1 | 8.464 | 34.711 | | 0.14 | 26.976 | 0.329 | 1487. | 2.7 | | | | | | | |
| 194 | 196.1 | 8.450 | 34.714 | | 0.15 | 26.981 | 0.331 | 1487. | 3.3 | | | | | | | |
| 196 | 197.8 | 8.448 | 34.721 | | 0.16 | 26.987 | 0.333 | 1487. | 3.7 | | | | | | | |
| 198 | 200.1 | 8.457 | 34.738 | | 0.17 | 26.999 | 0.336 | 1487. | 3.9 | | | | | | | |

| SHIP OC | CRUISE 181 | STATION 89 | DATE 14 FEB 1987 | EST 1410 | LATITUDE 42°32.4'N | LONGITUDE 67°44.8'W | DEPTH 233 | | | | | | | | | |
|------------|---------------|---------------|---------------------|-------------|------------------------|----------------------------|--|--------------|----------|--|--|--|--|--|--|--|
| DEPTH m | PRESS dbar | TEMP °C | SALIN psu | OXY ml/l | ATN m ⁻¹ | SIGT gm/cm ³ | DYHT A 10m ² /s ² | S SPD m/s | N cph | | | | | | | |
| 200 | 201.7 | 8.457 | 34.753 | | 0.18 | 27.011 | 0.337 | 1487. | 4.0 | | | | | | | |
| 203 | 204.2 | 8.460 | 34.778 | | 0.20 | 27.030 | 0.340 | 1487. | 3.9 | | | | | | | |
| 204 | 205.9 | 8.459 | 34.788 | | 0.21 | 27.038 | 0.342 | 1487. | 3.7 | | | | | | | |
| 207 | 208.3 | 8.458 | 34.793 | | 0.22 | 27.042 | 0.344 | 1487. | 3.3 | | | | | | | |
| 208 | 210.0 | 8.457 | 34.802 | | 0.23 | 27.049 | 0.346 | 1487. | 2.9 | | | | | | | |
| 210 | 212.0 | 8.458 | 34.805 | | 0.23 | 27.051 | 0.348 | 1487. | 2.5 | | | | | | | |
| 212 | 214.1 | 8.460 | 34.810 | | 0.24 | 27.055 | 0.350 | 1487. | 2.3 | | | | | | | |
| 214 | 215.9 | 8.461 | 34.814 | | 0.24 | 27.058 | 0.352 | 1488. | 2.2 | | | | | | | |
| 216 | 218.1 | 8.461 | 34.817 | | 0.26 | 27.060 | 0.355 | 1488. | 2.0 | | | | | | | |
| 217 | 219.3 | 8.461 | 34.817 | | 0.26 | 27.060 | 0.356 | 1488. | 1.9 | | | | | | | |
| 218 | 220.1 | 8.461 | 34.818 | | 0.26 | 27.061 | 0.357 | 1488. | 1.7 | | | | | | | |
| 219 | 220.9 | 8.462 | 34.820 | | 0.26 | 27.062 | 0.358 | 1488. | 1.7 | | | | | | | |
| 220 | 222.0 | 8.462 | 34.821 | | 0.29 | 27.063 | 0.359 | 1488. | 1.6 | | | | | | | |
| 221 | 223.0 | 8.463 | 34.823 | | 0.31 | 27.064 | 0.360 | 1488. | 1.5 | | | | | | | |
| 222 | 224.2 | 8.462 | 34.823 | | 0.31 | 27.065 | 0.361 | 1488. | 1.4 | | | | | | | |
| 223 | 224.9 | 8.462 | 34.824 | | 0.31 | 27.066 | 0.362 | 1488. | 1.4 | | | | | | | |
| 224 | 226.0 | 8.462 | 34.824 | | 0.34 | 27.066 | 0.363 | 1488. | 1.4 | | | | | | | |
| 225 | 227.2 | 8.462 | 34.824 | | 0.36 | 27.066 | 0.364 | 1488. | 1.4 | | | | | | | |
| 226 | 227.6 | 8.462 | 34.824 | | 0.34 | 27.066 | 0.364 | 1488. | 1.4 | | | | | | | |

| SHIP OC | CRUISE 181 | STATION 90 | DATE 14 FEB 1987 | EST 1615 | LATITUDE 42°33.4'N | LONGITUDE 68°00.0'W | DEPTH 208 | | | | | | | | | |
|---------|------------|------------|------------------|----------|---------------------|-------------------------|---|-----------|-------|--|--|--|--|--|--|--|
| DEPTH m | PRESS dbar | TEMP °C | SALIN psu | OXY ml/l | ATN m ⁻¹ | SIGT gm/cm ³ | DYHT A 10m ² /s ² | S SPD m/s | N cph | | | | | | | |
| 2 | 2.5 | 3.897 | 32.532 | | 0.13 | 25.834 | 0.000 | 1463. | -0.2 | | | | | | | |
| 4 | 3.8 | 3.896 | 32.532 | | 0.13 | 25.834 | 0.003 | 1463. | -0.2 | | | | | | | |
| 6 | 5.8 | 3.897 | 32.532 | | 0.13 | 25.834 | 0.007 | 1463. | -0.2 | | | | | | | |
| 8 | 8.0 | 3.895 | 32.532 | | 0.13 | 25.834 | 0.012 | 1463. | -0.2 | | | | | | | |
| 10 | 10.1 | 3.902 | 32.532 | | 0.13 | 25.833 | 0.016 | 1463. | -0.2 | | | | | | | |
| 12 | 11.6 | 3.902 | 32.532 | | 0.13 | 25.833 | 0.020 | 1463. | 0.3 | | | | | | | |
| 14 | 14.1 | 3.911 | 32.533 | | 0.13 | 25.833 | 0.025 | 1463. | 0.4 | | | | | | | |
| 16 | 16.0 | 3.915 | 32.535 | | 0.13 | 25.834 | 0.029 | 1463. | 0.6 | | | | | | | |
| 18 | 18.0 | 3.915 | 32.535 | | 0.13 | 25.834 | 0.034 | 1463. | 0.7 | | | | | | | |
| 20 | 20.3 | 3.919 | 32.536 | | 0.13 | 25.834 | 0.038 | 1463. | 0.7 | | | | | | | |
| 22 | 21.9 | 3.920 | 32.536 | | 0.13 | 25.835 | 0.042 | 1463. | 0.8 | | | | | | | |
| 24 | 24.1 | 3.919 | 32.537 | | 0.13 | 25.835 | 0.047 | 1464. | 0.9 | | | | | | | |
| 26 | 26.0 | 3.923 | 32.537 | | 0.13 | 25.835 | 0.051 | 1464. | 1.0 | | | | | | | |
| 28 | 27.9 | 3.924 | 32.538 | | 0.13 | 25.835 | 0.055 | 1464. | 1.1 | | | | | | | |
| 30 | 30.0 | 3.935 | 32.540 | | 0.13 | 25.836 | 0.059 | 1464. | 1.2 | | | | | | | |
| 32 | 31.9 | 3.948 | 32.545 | | 0.13 | 25.839 | 0.063 | 1464. | 1.4 | | | | | | | |
| 34 | 34.2 | 3.953 | 32.546 | | 0.13 | 25.839 | 0.068 | 1464. | 1.4 | | | | | | | |
| 36 | 35.8 | 3.958 | 32.547 | | 0.13 | 25.840 | 0.072 | 1464. | 1.6 | | | | | | | |
| 38 | 38.1 | 3.971 | 32.553 | | 0.13 | 25.843 | 0.077 | 1464. | 1.7 | | | | | | | |
| 39 | 39.6 | 3.978 | 32.555 | | 0.13 | 25.844 | 0.080 | 1464. | 2.0 | | | | | | | |
| 42 | 42.3 | 3.984 | 32.557 | | 0.13 | 25.844 | 0.086 | 1464. | 2.4 | | | | | | | |
| 44 | 44.0 | 4.014 | 32.568 | | 0.13 | 25.851 | 0.089 | 1464. | 3.3 | | | | | | | |
| 46 | 45.9 | 4.026 | 32.572 | | 0.13 | 25.852 | 0.094 | 1464. | 4.2 | | | | | | | |
| 48 | 48.5 | 4.063 | 32.586 | | 0.12 | 25.860 | 0.099 | 1465. | 4.8 | | | | | | | |
| 49 | 49.7 | 4.106 | 32.604 | | 0.12 | 25.870 | 0.102 | 1465. | 5.4 | | | | | | | |
| 52 | 52.2 | 4.293 | 32.684 | | 0.11 | 25.915 | 0.107 | 1466. | 5.8 | | | | | | | |
| 54 | 54.2 | 4.493 | 32.747 | | 0.10 | 25.944 | 0.111 | 1467. | 6.1 | | | | | | | |
| 55 | 55.9 | 4.633 | 32.782 | | 0.10 | 25.957 | 0.115 | 1467. | 6.5 | | | | | | | |
| 58 | 58.1 | 4.769 | 32.832 | | 0.09 | 25.982 | 0.119 | 1468. | 6.7 | | | | | | | |
| 60 | 60.2 | 4.888 | 32.880 | | 0.09 | 26.007 | 0.123 | 1469. | 6.7 | | | | | | | |
| 61 | 61.9 | 4.992 | 32.922 | | 0.09 | 26.029 | 0.127 | 1469. | 6.9 | | | | | | | |
| 64 | 64.2 | 5.296 | 33.033 | | 0.09 | 26.083 | 0.131 | 1470. | 6.8 | | | | | | | |
| 65 | 65.9 | 5.469 | 33.099 | | 0.09 | 26.115 | 0.134 | 1471. | 6.5 | | | | | | | |
| 68 | 68.1 | 5.616 | 33.156 | | 0.08 | 26.143 | 0.139 | 1472. | 5.8 | | | | | | | |
| 69 | 70.0 | 5.815 | 33.224 | | 0.08 | 26.172 | 0.142 | 1473. | 5.0 | | | | | | | |
| 71 | 72.0 | 5.835 | 33.225 | | 0.08 | 26.171 | 0.146 | 1473. | 3.9 | | | | | | | |
| 73 | 74.0 | 5.835 | 33.225 | | 0.08 | 26.170 | 0.149 | 1473. | 2.8 | | | | | | | |
| 76 | 76.2 | 5.828 | 33.224 | | 0.08 | 26.170 | 0.153 | 1473. | 1.7 | | | | | | | |
| 77 | 77.9 | 5.827 | 33.223 | | 0.08 | 26.170 | 0.156 | 1473. | 0.3 | | | | | | | |
| 79 | 80.1 | 5.829 | 33.225 | | 0.08 | 26.171 | 0.161 | 1473. | 0.6 | | | | | | | |
| 81 | 82.0 | 5.831 | 33.225 | | 0.08 | 26.171 | 0.164 | 1473. | 0.7 | | | | | | | |
| 83 | 84.0 | 5.833 | 33.225 | | 0.08 | 26.171 | 0.168 | 1473. | 0.7 | | | | | | | |
| 85 | 86.1 | 5.842 | 33.228 | | 0.08 | 26.172 | 0.172 | 1473. | 0.7 | | | | | | | |
| 87 | 87.7 | 5.848 | 33.229 | | 0.08 | 26.172 | 0.175 | 1473. | 0.9 | | | | | | | |
| 90 | 90.3 | 5.854 | 33.230 | | 0.08 | 26.173 | 0.179 | 1473. | 1.2 | | | | | | | |
| 91 | 92.0 | 5.853 | 33.230 | | 0.08 | 26.172 | 0.183 | 1473. | 1.5 | | | | | | | |
| 93 | 93.8 | 5.852 | 33.230 | | 0.08 | 26.173 | 0.186 | 1473. | 1.7 | | | | | | | |
| 95 | 96.1 | 5.869 | 33.237 | | 0.08 | 26.176 | 0.190 | 1474. | 1.9 | | | | | | | |
| 97 | 98.0 | 5.901 | 33.249 | | 0.08 | 26.181 | 0.194 | 1474. | 2.0 | | | | | | | |
| 99 | 99.8 | 5.898 | 33.249 | | 0.08 | 26.182 | 0.197 | 1474. | 2.2 | | | | | | | |

| SHIP OC | CRUISE 181 | STATION 90 | DATE 14 FEB 1987 | EST 1615 | LATITUDE 42°33.4'N | LONGITUDE 68°00.0'W | DEPTH 208 | | | | | | | | | |
|---------|------------|------------|------------------|----------|---------------------|-------------------------|---|-----------|-------|--|--|--|--|--|--|--|
| DEPTH m | PRESS dbar | TEMP °C | SALIN psu | OXY ml/l | ATN m ⁻¹ | SIGT gm/cm ³ | DYHT A 10m ² /s ² | S SPD m/s | N cph | | | | | | | |
| 101 | 102.1 | 5.914 | 33.257 | | 0.09 | 26.186 | 0.201 | 1474. | 2.6 | | | | | | | |
| 103 | 103.9 | 5.957 | 33.268 | | 0.09 | 26.190 | 0.204 | 1474. | 3.0 | | | | | | | |
| 105 | 105.9 | 5.955 | 33.265 | | 0.09 | 26.188 | 0.208 | 1474. | 3.3 | | | | | | | |
| 107 | 108.3 | 6.037 | 33.295 | | 0.09 | 26.201 | 0.212 | 1475. | 3.4 | | | | | | | |
| 109 | 109.9 | 6.133 | 33.327 | | 0.09 | 26.214 | 0.215 | 1475. | 3.5 | | | | | | | |
| 111 | 112.0 | 6.270 | 33.370 | | 0.10 | 26.231 | 0.219 | 1476. | 3.3 | | | | | | | |
| 113 | 114.0 | 6.314 | 33.377 | | 0.10 | 26.231 | 0.223 | 1476. | 3.1 | | | | | | | |
| 115 | 115.8 | 6.351 | 33.391 | | 0.10 | 26.237 | 0.226 | 1476. | 2.5 | | | | | | | |
| 117 | 118.2 | 6.378 | 33.397 | | 0.10 | 26.238 | 0.230 | 1476. | 2.5 | | | | | | | |
| 119 | 119.8 | 6.384 | 33.397 | | 0.10 | 26.238 | 0.233 | 1476. | 2.6 | | | | | | | |
| 121 | 122.1 | 6.382 | 33.397 | | 0.11 | 26.238 | 0.237 | 1476. | 2.9 | | | | | | | |
| 123 | 123.7 | 6.389 | 33.400 | | 0.10 | 26.239 | 0.240 | 1476. | 3.1 | | | | | | | |
| 125 | 126.3 | 6.513 | 33.451 | | 0.11 | 26.264 | 0.245 | 1477. | 3.5 | | | | | | | |
| 127 | 127.9 | 6.571 | 33.469 | | 0.12 | 26.270 | 0.247 | 1477. | 4.4 | | | | | | | |
| 129 | 130.2 | 6.589 | 33.474 | | 0.12 | 26.272 | 0.252 | 1477. | 5.0 | | | | | | | |
| 131 | 132.0 | 6.616 | 33.489 | | 0.12 | 26.280 | 0.255 | 1477. | 5.5 | | | | | | | |
| 133 | 134.0 | 6.663 | 33.521 | | 0.13 | 26.299 | 0.258 | 1478. | 5.7 | | | | | | | |
| 135 | 136.0 | 6.747 | 33.604 | | 0.16 | 26.353 | 0.262 | 1478. | 5.8 | | | | | | | |
| 137 | 137.8 | 6.795 | 33.640 | | 0.18 | 26.375 | 0.265 | 1478. | 5.6 | | | | | | | |
| 139 | 140.2 | 6.860 | 33.683 | | 0.20 | 26.401 | 0.269 | 1479. | 5.2 | | | | | | | |
| 141 | 141.9 | 6.883 | 33.693 | | 0.20 | 26.405 | 0.271 | 1479. | 4.6 | | | | | | | |
| 143 | 144.1 | 6.889 | 33.699 | | 0.21 | 26.409 | 0.275 | 1479. | 3.7 | | | | | | | |
| 145 | 145.9 | 6.886 | 33.703 | | 0.21 | 26.413 | 0.278 | 1479. | 3.3 | | | | | | | |
| 147 | 147.9 | 6.874 | 33.709 | | 0.22 | 26.419 | 0.281 | 1479. | 3.0 | | | | | | | |
| 149 | 150.1 | 6.929 | 33.730 | | 0.22 | 26.428 | 0.285 | 1479. | 2.9 | | | | | | | |
| 151 | 152.0 | 6.971 | 33.742 | | 0.22 | 26.432 | 0.288 | 1479. | 2.8 | | | | | | | |
| 153 | 154.2 | 7.105 | 33.780 | | 0.21 | 26.444 | 0.291 | 1480. | 2.7 | | | | | | | |
| 155 | 155.9 | 7.154 | 33.786 | | 0.20 | 26.441 | 0.294 | 1480. | 2.6 | | | | | | | |
| 157 | 158.0 | 7.189 | 33.797 | | 0.20 | 26.446 | 0.297 | 1480. | 2.8 | | | | | | | |
| 159 | 159.9 | 7.217 | 33.805 | | 0.20 | 26.448 | 0.300 | 1481. | 3.3 | | | | | | | |
| 161 | 162.1 | 7.249 | 33.817 | | 0.20 | 26.453 | 0.304 | 1481. | 3.6 | | | | | | | |
| 162 | 163.7 | 7.252 | 33.826 | | 0.21 | 26.459 | 0.306 | 1481. | 4.1 | | | | | | | |
| 165 | 166.3 | 7.254 | 33.850 | | 0.23 | 26.478 | 0.310 | 1481. | 4.4 | | | | | | | |
| 167 | 168.0 | 7.337 | 33.895 | | 0.23 | 26.502 | 0.313 | 1481. | 4.9 | | | | | | | |
| 169 | 170.2 | 7.338 | 33.896 | | 0.23 | 26.502 | 0.317 | 1481. | 5.2 | | | | | | | |
| 171 | 172.0 | 7.390 | 33.935 | | 0.24 | 26.525 | 0.319 | 1482. | 5.5 | | | | | | | |
| 173 | 174.1 | 7.372 | 33.944 | | 0.24 | 26.535 | 0.322 | 1482. | 5.8 | | | | | | | |
| 175 | 176.1 | 7.445 | 34.007 | | 0.24 | 26.575 | 0.325 | 1482. | 6.0 | | | | | | | |
| 176 | 177.9 | 7.515 | 34.043 | | 0.24 | 26.593 | 0.328 | 1482. | 6.2 | | | | | | | |
| 179 | 180.3 | 7.578 | 34.088 | | 0.25 | 26.619 | 0.331 | 1483. | 6.1 | | | | | | | |
| 180 | 181.9 | 7.658 | 34.139 | | 0.26 | 26.648 | 0.334 | 1483. | 6.1 | | | | | | | |
| 182 | 183.9 | 7.737 | 34.188 | | 0.27 | 26.675 | 0.337 | 1483. | 5.8 | | | | | | | |
| 185 | 186.2 | 7.792 | 34.221 | | 0.28 | 26.693 | 0.340 | 1484. | 5.9 | | | | | | | |
| 186 | 187.7 | 7.811 | 34.234 | | 0.29 | 26.701 | 0.342 | 1484. | 6.1 | | | | | | | |
| 189 | 190.1 | 7.886 | 34.289 | | 0.29 | 26.733 | 0.345 | 1484. | 6.3 | | | | | | | |
| 190 | 191.3 | 7.896 | 34.295 | | 0.29 | 26.736 | 0.347 | 1484. | 6.8 | | | | | | | |
| 190 | 192.0 | 7.933 | 34.340 | | 0.30 | 26.765 | 0.348 | 1485. | 7.5 | | | | | | | |
| 191 | 192.9 | 7.996 | 34.384 | | 0.30 | 26.791 | 0.349 | 1485. | 8.1 | | | | | | | |
| 192 | 194.0 | 8.065 | 34.435 | | 0.31 | 26.821 | 0.350 | 1485. | 8.4 | | | | | | | |
| 194 | 195.2 | 8.106 | 34.465 | | 0.32 | 26.838 | 0.352 | 1485. | 8.3 | | | | | | | |

| SHIP OC | CRUISE 181 | STATION 90 | DATE 14 FEB 1987 | EST 1615 | LATITUDE 42°33.4'N | LONGITUDE 68°00.0'W | DEPTH 208 | | |
|------------|---------------|---------------|---------------------|-------------|------------------------|----------------------------|--|--------------|----------|
| DEPTH m | PRESS dbar | TEMP °C | SALIN psu | OXY ml/l | ATN m ⁻¹ | SIGT gm/cm ³ | DYHT A 10m ² /s ² | S SPD m/s | N cph |
| 194 | 195.9 | 8.138 | 34.505 | 0.32 | 26.865 | 0.353 | 1486. | 7.7 | |
| 195 | 197.0 | 8.186 | 34.538 | 0.34 | 26.883 | 0.354 | 1486. | 7.1 | |
| 196 | 198.1 | 8.217 | 34.561 | 0.34 | 26.897 | 0.355 | 1486. | 7.1 | |
| 197 | 198.9 | 8.240 | 34.581 | 0.35 | 26.909 | 0.356 | 1486. | 7.1 | |
| 198 | 200.1 | 8.250 | 34.588 | 0.36 | 26.913 | 0.357 | 1486. | 7.1 | |
| 199 | 200.8 | 8.255 | 34.592 | 0.36 | 26.915 | 0.358 | 1486. | 7.1 | |

| SHIP OC | CRUISE 181 | STATION 91 | DATE 15 FEB 1987 | EST 0239 | LATITUDE 42°31.3'N | LONGITUDE 69°31.3'W | DEPTH 282 | | |
|------------|---------------|---------------|---------------------|-------------|------------------------|----------------------------|--|--------------|----------|
| DEPTH m | PRESS dbar | TEMP °C | SALIN psu | OXY ml/l | ATN m ⁻¹ | SIGT gm/cm ³ | DYHT A 10m ² /s ² | S SPD m/s | N cph |
| 3 | 2.7 | 4.745 | 32.872 | 0.11 | 26.017 | 0.000 | 1467. | -0.4 | |
| 4 | 3.9 | 4.743 | 32.872 | 0.11 | 26.017 | 0.003 | 1467. | -0.4 | |
| 6 | 6.0 | 4.745 | 32.872 | 0.11 | 26.017 | 0.007 | 1467. | -0.4 | |
| 8 | 7.9 | 4.740 | 32.871 | 0.11 | 26.016 | 0.010 | 1467. | -0.4 | |
| 10 | 10.1 | 4.738 | 32.871 | 0.11 | 26.016 | 0.015 | 1467. | -0.4 | |
| 12 | 12.0 | 4.741 | 32.871 | 0.11 | 26.016 | 0.018 | 1467. | -0.4 | |
| 14 | 14.0 | 4.742 | 32.871 | 0.11 | 26.016 | 0.022 | 1467. | -0.4 | |
| 16 | 16.1 | 4.740 | 32.870 | 0.11 | 26.016 | 0.027 | 1467. | -0.3 | |
| 18 | 18.0 | 4.737 | 32.870 | 0.11 | 26.016 | 0.030 | 1467. | -0.3 | |
| 20 | 20.1 | 4.739 | 32.870 | 0.11 | 26.016 | 0.035 | 1467. | -0.3 | |
| 22 | 22.0 | 4.738 | 32.870 | 0.11 | 26.016 | 0.038 | 1467. | -0.2 | |
| 24 | 24.0 | 4.740 | 32.870 | 0.11 | 26.016 | 0.042 | 1467. | -0.2 | |
| 26 | 26.1 | 4.740 | 32.870 | 0.11 | 26.016 | 0.046 | 1467. | 0.1 | |
| 28 | 27.9 | 4.740 | 32.870 | 0.11 | 26.016 | 0.050 | 1467. | 0.2 | |
| 30 | 30.0 | 4.741 | 32.870 | 0.11 | 26.016 | 0.054 | 1467. | 0.2 | |
| 32 | 31.9 | 4.741 | 32.870 | 0.11 | 26.016 | 0.058 | 1467. | 0.2 | |
| 34 | 34.0 | 4.740 | 32.871 | 0.11 | 26.016 | 0.062 | 1468. | 0.3 | |
| 36 | 35.9 | 4.740 | 32.870 | 0.11 | 26.016 | 0.066 | 1468. | 0.3 | |
| 38 | 38.1 | 4.738 | 32.870 | 0.11 | 26.016 | 0.070 | 1468. | 0.4 | |
| 40 | 39.9 | 4.738 | 32.870 | 0.11 | 26.016 | 0.074 | 1468. | 0.5 | |
| 42 | 42.0 | 4.743 | 32.871 | 0.11 | 26.016 | 0.078 | 1468. | 0.3 | |
| 44 | 44.0 | 4.746 | 32.872 | 0.11 | 26.016 | 0.082 | 1468. | 0.3 | |
| 46 | 45.9 | 4.751 | 32.872 | 0.11 | 26.016 | 0.086 | 1468. | 0.2 | |
| 48 | 48.0 | 4.747 | 32.873 | 0.11 | 26.017 | 0.090 | 1468. | -0.1 | |
| 50 | 50.0 | 4.751 | 32.871 | 0.11 | 26.015 | 0.094 | 1468. | -0.5 | |
| 51 | 51.9 | 4.787 | 32.877 | 0.11 | 26.016 | 0.098 | 1468. | 0.5 | |
| 54 | 54.0 | 4.749 | 32.872 | 0.11 | 26.016 | 0.102 | 1468. | 1.3 | |
| 56 | 56.0 | 4.746 | 32.871 | 0.11 | 26.016 | 0.106 | 1468. | 2.0 | |
| 58 | 58.0 | 4.779 | 32.874 | 0.11 | 26.014 | 0.110 | 1468. | 2.5 | |
| 60 | 60.0 | 4.868 | 32.895 | 0.11 | 26.021 | 0.114 | 1468. | 3.1 | |
| 61 | 62.0 | 4.942 | 32.918 | 0.11 | 26.031 | 0.118 | 1469. | 3.6 | |
| 64 | 64.1 | 5.067 | 32.949 | 0.10 | 26.042 | 0.122 | 1469. | 3.9 | |
| 65 | 66.0 | 5.154 | 32.970 | 0.10 | 26.049 | 0.126 | 1470. | 4.1 | |
| 68 | 68.1 | 5.254 | 33.007 | 0.10 | 26.067 | 0.130 | 1470. | 4.0 | |
| 69 | 69.8 | 5.252 | 33.021 | 0.10 | 26.078 | 0.133 | 1470. | 3.8 | |
| 72 | 72.1 | 5.206 | 33.028 | 0.10 | 26.089 | 0.137 | 1470. | 3.5 | |
| 73 | 73.9 | 5.239 | 33.037 | 0.10 | 26.092 | 0.141 | 1470. | 3.3 | |
| 75 | 76.0 | 5.316 | 33.054 | 0.10 | 26.097 | 0.145 | 1471. | 3.0 | |
| 78 | 78.2 | 5.335 | 33.061 | 0.10 | 26.100 | 0.149 | 1471. | 2.8 | |
| 79 | 79.8 | 5.351 | 33.065 | 0.10 | 26.102 | 0.152 | 1471. | 2.8 | |
| 81 | 82.1 | 5.361 | 33.079 | 0.10 | 26.112 | 0.157 | 1471. | 3.0 | |
| 83 | 83.9 | 5.344 | 33.085 | 0.11 | 26.118 | 0.160 | 1471. | 3.4 | |
| 85 | 86.0 | 5.331 | 33.085 | 0.11 | 26.120 | 0.164 | 1471. | 3.6 | |
| 87 | 88.0 | 5.398 | 33.110 | 0.12 | 26.131 | 0.168 | 1471. | 3.8 | |
| 89 | 89.9 | 5.487 | 33.131 | 0.12 | 26.138 | 0.171 | 1472. | 3.8 | |
| 91 | 92.0 | 5.638 | 33.181 | 0.13 | 26.159 | 0.175 | 1472. | 3.7 | |
| 93 | 94.0 | 5.644 | 33.192 | 0.12 | 26.168 | 0.179 | 1473. | 3.5 | |
| 95 | 96.0 | 5.688 | 33.205 | 0.12 | 26.173 | 0.183 | 1473. | 3.0 | |
| 97 | 98.1 | 5.780 | 33.224 | 0.12 | 26.176 | 0.186 | 1473. | 2.6 | |
| 99 | 99.9 | 5.795 | 33.229 | 0.12 | 26.179 | 0.190 | 1473. | 1.8 | |

| SHIP OC | CRUISE 181 | STATION 91 | DATE 15 FEB 1987 | EST 0239 | LATITUDE 42°31.3'N | LONGITUDE 69°31.3'W | DEPTH 282 | | | | | |
|------------|---------------|---------------|---------------------|-------------|------------------------|----------------------------|--|--------------|----------|--|--|--|
| DEPTH m | PRESS dbar | TEMP °C | SALIN psu | OXY ml/l | ATN m ⁻¹ | SIGT gm/cm ³ | DYHT A 10m ² /s ² | S SPD m/s | N cph | | | |
| 101 | 102.0 | 5.795 | 33.229 | 0.12 | 26.179 | 0.194 | 1473. | 1.4 | | | | |
| 103 | 104.1 | 5.802 | 33.230 | 0.12 | 26.179 | 0.197 | 1473. | 1.0 | | | | |
| 105 | 106.0 | 5.810 | 33.232 | 0.12 | 26.179 | 0.201 | 1473. | 0.8 | | | | |
| 107 | 107.9 | 5.825 | 33.234 | 0.11 | 26.179 | 0.204 | 1474. | 0.6 | | | | |
| 109 | 110.1 | 5.848 | 33.239 | 0.10 | 26.180 | 0.209 | 1474. | 0.6 | | | | |
| 111 | 111.9 | 5.858 | 33.241 | 0.10 | 26.180 | 0.212 | 1474. | 0.6 | | | | |
| 113 | 114.0 | 5.861 | 33.241 | 0.10 | 26.180 | 0.216 | 1474. | 0.5 | | | | |
| 115 | 116.0 | 5.862 | 33.242 | 0.10 | 26.180 | 0.219 | 1474. | 0.5 | | | | |
| 117 | 118.0 | 5.862 | 33.242 | 0.10 | 26.181 | 0.223 | 1474. | 0.4 | | | | |
| 119 | 119.9 | 5.863 | 33.242 | 0.10 | 26.180 | 0.227 | 1474. | 0.3 | | | | |
| 121 | 122.0 | 5.867 | 33.242 | 0.10 | 26.180 | 0.230 | 1474. | 0.3 | | | | |
| 123 | 124.0 | 5.869 | 33.243 | 0.10 | 26.181 | 0.234 | 1474. | 0.4 | | | | |
| 125 | 126.1 | 5.869 | 33.243 | 0.10 | 26.181 | 0.238 | 1474. | 0.5 | | | | |
| 127 | 127.8 | 5.869 | 33.243 | 0.10 | 26.181 | 0.241 | 1474. | 0.5 | | | | |
| 129 | 130.1 | 5.870 | 33.243 | 0.10 | 26.181 | 0.245 | 1474. | 0.5 | | | | |
| 131 | 131.9 | 5.866 | 33.243 | 0.10 | 26.181 | 0.249 | 1474. | 0.5 | | | | |
| 133 | 134.0 | 5.856 | 33.242 | 0.11 | 26.182 | 0.253 | 1474. | 0.5 | | | | |
| 135 | 135.9 | 5.852 | 33.241 | 0.11 | 26.181 | 0.256 | 1474. | 0.5 | | | | |
| 137 | 138.0 | 5.848 | 33.241 | 0.11 | 26.181 | 0.260 | 1474. | 0.5 | | | | |
| 139 | 140.1 | 5.845 | 33.240 | 0.11 | 26.181 | 0.264 | 1474. | 0.5 | | | | |
| 141 | 142.0 | 5.840 | 33.240 | 0.12 | 26.182 | 0.267 | 1474. | 0.5 | | | | |
| 143 | 143.9 | 5.833 | 33.239 | 0.11 | 26.182 | 0.271 | 1474. | 0.6 | | | | |
| 145 | 146.0 | 5.833 | 33.239 | 0.11 | 26.182 | 0.275 | 1474. | 0.5 | | | | |
| 147 | 147.9 | 5.834 | 33.240 | 0.11 | 26.182 | 0.278 | 1474. | 0.6 | | | | |
| 149 | 150.2 | 5.830 | 33.239 | 0.11 | 26.182 | 0.282 | 1474. | 0.5 | | | | |
| 151 | 151.8 | 5.823 | 33.238 | 0.11 | 26.182 | 0.285 | 1474. | 0.4 | | | | |
| 153 | 154.0 | 5.820 | 33.237 | 0.11 | 26.182 | 0.289 | 1474. | 0.5 | | | | |
| 155 | 155.8 | 5.819 | 33.238 | 0.11 | 26.183 | 0.293 | 1474. | 0.5 | | | | |
| 157 | 158.1 | 5.818 | 33.237 | 0.11 | 26.182 | 0.297 | 1474. | 0.6 | | | | |
| 159 | 159.9 | 5.816 | 33.237 | 0.11 | 26.183 | 0.300 | 1474. | 0.6 | | | | |
| 161 | 162.0 | 5.812 | 33.238 | 0.11 | 26.183 | 0.304 | 1474. | 0.7 | | | | |
| 163 | 163.9 | 5.813 | 33.237 | 0.11 | 26.183 | 0.308 | 1474. | 0.9 | | | | |
| 165 | 166.0 | 5.817 | 33.239 | 0.11 | 26.184 | 0.311 | 1475. | 1.3 | | | | |
| 167 | 167.9 | 5.825 | 33.240 | 0.11 | 26.184 | 0.315 | 1475. | 1.7 | | | | |
| 169 | 170.0 | 5.834 | 33.242 | 0.12 | 26.185 | 0.319 | 1475. | 2.3 | | | | |
| 171 | 172.0 | 5.890 | 33.255 | 0.12 | 26.188 | 0.322 | 1475. | 2.6 | | | | |
| 173 | 174.1 | 5.933 | 33.269 | 0.13 | 26.194 | 0.326 | 1475. | 3.2 | | | | |
| 174 | 175.9 | 5.997 | 33.289 | 0.13 | 26.202 | 0.330 | 1475. | 3.8 | | | | |
| 177 | 178.0 | 6.102 | 33.322 | 0.12 | 26.214 | 0.333 | 1476. | 4.4 | | | | |
| 178 | 179.9 | 6.223 | 33.346 | 0.13 | 26.218 | 0.337 | 1476. | 4.9 | | | | |
| 181 | 182.1 | 6.432 | 33.413 | 0.13 | 26.244 | 0.341 | 1477. | 5.4 | | | | |
| 182 | 183.9 | 6.559 | 33.453 | 0.14 | 26.259 | 0.344 | 1478. | 6.0 | | | | |
| 184 | 185.9 | 6.595 | 33.498 | 0.16 | 26.290 | 0.348 | 1478. | 6.4 | | | | |
| 186 | 188.1 | 6.621 | 33.534 | 0.16 | 26.315 | 0.351 | 1478. | 6.5 | | | | |
| 188 | 189.9 | 6.647 | 33.579 | 0.18 | 26.347 | 0.354 | 1479. | 6.3 | | | | |
| 190 | 192.0 | 6.623 | 33.625 | 0.20 | 26.386 | 0.358 | 1479. | 5.9 | | | | |
| 192 | 194.0 | 6.648 | 33.668 | 0.21 | 26.417 | 0.361 | 1479. | 5.3 | | | | |
| 195 | 196.2 | 6.649 | 33.673 | 0.21 | 26.421 | 0.365 | 1479. | 4.6 | | | | |
| 196 | 198.0 | 6.648 | 33.674 | 0.22 | 26.422 | 0.368 | 1479. | 3.9 | | | | |
| 198 | 199.8 | 6.649 | 33.678 | 0.22 | 26.424 | 0.371 | 1479. | 3.4 | | | | |

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| SHIP OC | CRUISE 181 | STATION 91 | DATE 15 FEB 1987 | EST 0239 | LATITUDE 42°31.3'N | LONGITUDE 69°31.3'W | DEPTH 282 | | | | | |
|------------|---------------|---------------|---------------------|-------------|------------------------|----------------------------|--|--------------|----------|--|--|--|
| DEPTH m | PRESS dbar | TEMP °C | SALIN psu | OXY ml/l | ATN m ⁻¹ | SIGT gm/cm ³ | DYHT A 10m ² /s ² | S SPD m/s | N cph | | | |
| 200 | 202.0 | 6.654 | 33.688 | 0.23 | 26.432 | 0.374 | 1479. | 3.2 | | | | |
| 202 | 204.1 | 6.654 | 33.691 | 0.23 | 26.434 | 0.378 | 1479. | 3.3 | | | | |
| 204 | 206.0 | 6.663 | 33.712 | 0.24 | 26.450 | 0.381 | 1479. | 3.3 | | | | |
| 206 | 208.1 | 6.666 | 33.727 | 0.24 | 26.461 | 0.384 | 1479. | 3.1 | | | | |
| 208 | 209.8 | 6.666 | 33.733 | 0.24 | 26.465 | 0.387 | 1479. | 2.9 | | | | |
| 210 | 212.1 | 6.666 | 33.735 | 0.24 | 26.467 | 0.390 | 1479. | 2.6 | | | | |
| 212 | 213.9 | 6.666 | 33.736 | 0.23 | 26.468 | 0.393 | 1479. | 2.2 | | | | |
| 214 | 216.0 | 6.666 | 33.737 | 0.23 | 26.469 | 0.397 | 1479. | 2.1 | | | | |
| 216 | 217.9 | 6.666 | 33.740 | 0.23 | 26.472 | 0.400 | 1479. | 2.3 | | | | |
| 218 | 220.0 | 6.666 | 33.745 | 0.24 | 26.475 | 0.403 | 1479. | 2.5 | | | | |
| 220 | 222.0 | 6.668 | 33.752 | 0.24 | 26.481 | 0.406 | 1479. | 2.8 | | | | |
| 222 | 224.0 | 6.669 | 33.762 | 0.25 | 26.488 | 0.409 | 1479. | 3.0 | | | | |
| 224 | 226.0 | 6.669 | 33.767 | 0.25 | 26.493 | 0.412 | 1480. | 3.2 | | | | |
| 226 | 228.0 | 6.672 | 33.774 | 0.27 | 26.497 | 0.415 | 1480. | 3.3 | | | | |
| 228 | 230.0 | 6.677 | 33.786 | 0.31 | 26.506 | 0.418 | 1480. | 3.2 | | | | |
| 230 | 232.0 | 6.680 | 33.797 | 0.35 | 26.514 | 0.422 | 1480. | 3.2 | | | | |
| 232 | 233.9 | 6.687 | 33.808 | 0.39 | 26.522 | 0.424 | 1480. | 3.1 | | | | |
| 234 | 236.1 | 6.694 | 33.817 | 0.41 | 26.528 | 0.428 | 1480. | 2.9 | | | | |
| 236 | 238.0 | 6.699 | 33.820 | 0.42 | 26.530 | 0.431 | 1480. | 2.7 | | | | |
| 238 | 240.0 | 6.707 | 33.828 | 0.42 | 26.536 | 0.434 | 1480. | 2.4 | | | | |
| 240 | 242.0 | 6.712 | 33.832 | 0.42 | 26.538 | 0.437 | 1480. | 2.2 | | | | |
| 242 | 244.2 | 6.720 | 33.838 | 0.43 | 26.542 | 0.440 | 1480. | 2.0 | | | | |
| 244 | 245.9 | 6.725 | 33.842 | 0.46 | 26.544 | 0.443 | 1480. | 2.1 | | | | |
| 246 | 248.1 | 6.729 | 33.845 | 0.46 | 26.546 | 0.446 | 1480. | 2.2 | | | | |
| 248 | 250.3 | 6.731 | 33.847 | 0.49 | 26.547 | 0.449 | 1480. | 2.3 | | | | |
| 250 | 251.7 | 6.736 | 33.850 | 0.52 | 26.549 | 0.451 | 1480. | 2.4 | | | | |
| 252 | 253.9 | 6.747 | 33.864 | 0.64 | 26.558 | 0.455 | 1480. | 2.4 | | | | |
| 254 | 256.0 | 6.752 | 33.872 | 0.67 | 26.564 | 0.458 | 1480. | 2.4 | | | | |
| 256 | 258.0 | 6.754 | 33.873 | 0.71 | 26.565 | 0.461 | 1481. | 2.3 | | | | |
| 258 | 259.9 | 6.757 | 33.878 | 0.81 | 26.568 | 0.464 | 1481. | 2.1 | | | | |
| 260 | 262.2 | 6.760 | 33.882 | 0.81 | 26.571 | 0.467 | 1481. | 1.8 | | | | |
| 262 | 263.9 | 6.760 | 33.882 | 0.92 | 26.570 | 0.470 | 1481. | 1.6 | | | | |
| 263 | 265.2 | 6.762 | 33.884 | 0.93 | 26.572 | 0.472 | 1481. | 1.5 | | | | |
| 264 | 266.1 | 6.762 | 33.884 | 0.91 | 26.572 | 0.473 | 1481. | 1.3 | | | | |
| 265 | 267.0 | 6.762 | 33.885 | 0.95 | 26.573 | 0.474 | 1481. | 1.0 | | | | |
| 266 | 268.0 | 6.762 | 33.885 | 0.97 | 26.573 | 0.476 | 1481. | 0.8 | | | | |
| 267 | 269.0 | 6.762 | 33.885 | 0.97 | 26.573 | 0.477 | 1481. | 0.5 | | | | |
| 268 | 270.0 | 6.762 | 33.886 | 0.96 | 26.573 | 0.479 | 1481. | 0.3 | | | | |
| 269 | 271.0 | 6.763 | 33.885 | 0.93 | 26.573 | 0.480 | 1481. | 0.1 | | | | |
| 270 | 272.0 | 6.763 | 33.885 | 0.92 | 26.572 | 0.482 | 1481. | 0.1 | | | | |
| 271 | 273.0 | 6.763 | 33.885 | 0.93 | 26.573 | 0.483 | 1481. | 0.1 | | | | |
| 272 | 274.0 | 6.763 | 33.885 | 0.95 | 26.573 | 0.485 | 1481. | 0.1 | | | | |
| 272 | 274.8 | 6.763 | 33.885 | 0.97 | 26.573 | 0.486 | 1481. | 0.1 | | | | |

SHIP CRUISE STATION DATE EST LATITUDE LONGITUDE DEPTH
OC 181 92 15 FEB 1987 0453 42°40.1'N 69°38.5'W 283

| DEPTH | PRESS | TEMP | SALIN | OXY | ATN | SIGT | DYHT A | S SPD | N |
|-------|-------|-------|--------|------|-----------------|--------------------|----------------------------------|-------|------|
| m | dbar | °C | psu | ml/l | m ⁻¹ | gm/cm ³ | 10m ² /s ² | m/s | cph |
| 2 | 2.5 | 5.318 | 33.105 | | 0.11 | 26.137 | 0.000 | 1470. | 0.4 |
| 4 | 4.0 | 5.310 | 33.104 | | 0.11 | 26.137 | 0.003 | 1470. | 0.4 |
| 6 | 6.0 | 5.309 | 33.104 | | 0.11 | 26.138 | 0.007 | 1470. | 0.4 |
| 8 | 8.0 | 5.308 | 33.104 | | 0.11 | 26.138 | 0.010 | 1470. | 0.4 |
| 10 | 10.1 | 5.309 | 33.103 | | 0.11 | 26.137 | 0.014 | 1470. | 0.4 |
| 12 | 12.3 | 5.312 | 33.104 | | 0.11 | 26.137 | 0.018 | 1470. | 0.4 |
| 14 | 14.0 | 5.313 | 33.104 | | 0.11 | 26.137 | 0.022 | 1470. | 0.4 |
| 16 | 15.8 | 5.311 | 33.105 | | 0.11 | 26.138 | 0.025 | 1470. | 0.6 |
| 18 | 17.9 | 5.306 | 33.105 | | 0.11 | 26.138 | 0.029 | 1470. | 0.7 |
| 20 | 20.0 | 5.308 | 33.105 | | 0.11 | 26.138 | 0.033 | 1470. | 0.5 |
| 22 | 22.0 | 5.299 | 33.103 | | 0.11 | 26.138 | 0.036 | 1470. | 0.3 |
| 24 | 24.0 | 5.288 | 33.103 | | 0.11 | 26.139 | 0.040 | 1470. | -0.3 |
| 26 | 25.9 | 5.296 | 33.104 | | 0.11 | 26.139 | 0.044 | 1470. | -0.5 |
| 28 | 28.1 | 5.298 | 33.103 | | 0.11 | 26.137 | 0.048 | 1470. | -0.6 |
| 30 | 29.7 | 5.306 | 33.104 | | 0.11 | 26.137 | 0.051 | 1470. | -0.7 |
| 32 | 32.3 | 5.306 | 33.103 | | 0.11 | 26.137 | 0.056 | 1470. | -0.8 |
| 34 | 34.0 | 5.306 | 33.103 | | 0.11 | 26.137 | 0.059 | 1470. | -0.8 |
| 36 | 36.0 | 5.305 | 33.102 | | 0.11 | 26.136 | 0.063 | 1470. | -0.6 |
| 38 | 38.2 | 5.305 | 33.102 | | 0.11 | 26.136 | 0.067 | 1470. | -0.6 |
| 40 | 40.1 | 5.297 | 33.100 | | 0.11 | 26.135 | 0.070 | 1470. | -0.6 |
| 41 | 41.8 | 5.298 | 33.100 | | 0.11 | 26.136 | 0.074 | 1470. | -0.5 |
| 44 | 44.2 | 5.299 | 33.101 | | 0.11 | 26.136 | 0.078 | 1470. | -0.4 |
| 46 | 46.0 | 5.299 | 33.100 | | 0.11 | 26.136 | 0.081 | 1470. | -0.3 |
| 47 | 47.9 | 5.297 | 33.099 | | 0.11 | 26.135 | 0.085 | 1470. | 0.3 |
| 50 | 50.0 | 5.296 | 33.099 | | 0.12 | 26.135 | 0.089 | 1470. | 0.4 |
| 52 | 52.2 | 5.295 | 33.099 | | 0.11 | 26.135 | 0.093 | 1470. | 0.5 |
| 54 | 54.0 | 5.295 | 33.100 | | 0.11 | 26.136 | 0.096 | 1470. | 0.5 |
| 56 | 56.0 | 5.286 | 33.099 | | 0.11 | 26.136 | 0.100 | 1470. | 0.4 |
| 57 | 57.9 | 5.286 | 33.100 | | 0.11 | 26.136 | 0.104 | 1470. | 0.3 |
| 59 | 59.9 | 5.287 | 33.099 | | 0.11 | 26.136 | 0.107 | 1470. | -0.2 |
| 62 | 62.0 | 5.288 | 33.099 | | 0.11 | 26.136 | 0.111 | 1470. | -0.5 |
| 64 | 64.1 | 5.291 | 33.099 | | 0.11 | 26.135 | 0.115 | 1471. | -0.5 |
| 65 | 66.0 | 5.292 | 33.099 | | 0.11 | 26.135 | 0.119 | 1471. | -0.5 |
| 67 | 67.8 | 5.287 | 33.098 | | 0.12 | 26.135 | 0.122 | 1471. | -0.4 |
| 69 | 70.0 | 5.289 | 33.098 | | 0.12 | 26.135 | 0.126 | 1471. | -0.4 |
| 72 | 72.3 | 5.292 | 33.099 | | 0.11 | 26.135 | 0.131 | 1471. | -0.3 |
| 73 | 74.0 | 5.290 | 33.098 | | 0.12 | 26.135 | 0.134 | 1471. | -0.3 |
| 75 | 75.8 | 5.292 | 33.098 | | 0.12 | 26.135 | 0.137 | 1471. | -0.3 |
| 77 | 78.0 | 5.292 | 33.098 | | 0.11 | 26.135 | 0.141 | 1471. | -0.2 |
| 79 | 80.1 | 5.290 | 33.098 | | 0.12 | 26.135 | 0.145 | 1471. | -0.3 |
| 81 | 81.9 | 5.288 | 33.098 | | 0.12 | 26.135 | 0.149 | 1471. | -0.3 |
| 83 | 83.8 | 5.289 | 33.098 | | 0.11 | 26.135 | 0.152 | 1471. | -0.4 |
| 85 | 86.1 | 5.288 | 33.098 | | 0.11 | 26.135 | 0.156 | 1471. | -0.3 |
| 87 | 88.0 | 5.299 | 33.099 | | 0.11 | 26.134 | 0.160 | 1471. | -0.3 |
| 89 | 89.9 | 5.306 | 33.100 | | 0.11 | 26.134 | 0.164 | 1471. | -0.1 |
| 91 | 92.0 | 5.309 | 33.100 | | 0.11 | 26.134 | 0.168 | 1471. | 0.3 |
| 93 | 94.1 | 5.316 | 33.101 | | 0.11 | 26.134 | 0.172 | 1471. | 0.4 |
| 95 | 95.9 | 5.325 | 33.103 | | 0.11 | 26.135 | 0.175 | 1471. | 0.4 |
| 97 | 98.1 | 5.323 | 33.103 | | 0.11 | 26.135 | 0.179 | 1471. | 0.5 |
| 99 | 100.1 | 5.324 | 33.103 | | 0.11 | 26.135 | 0.183 | 1471. | 0.4 |

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SHIP CRUISE STATION DATE EST LATITUDE LONGITUDE DEPTH
OC 181 92 15 FEB 1987 0453 42°40.1'N 69°38.5'W 283

| DEPTH | PRESS | TEMP | SALIN | OXY | ATN | SIGT | DYHT A | S SPD | N |
|-------|-------|-------|--------|------|-----------------|--------------------|----------------------------------|-------|------|
| m | dbar | °C | psu | ml/l | m ⁻¹ | gm/cm ³ | 10m ² /s ² | m/s | cph |
| 101 | 102.0 | 5.335 | 33.105 | | 0.11 | 26.135 | 0.186 | 1471. | 0.3 |
| 103 | 104.2 | 5.349 | 33.106 | | 0.11 | 26.134 | 0.190 | 1471. | 0.1 |
| 105 | 105.9 | 5.342 | 33.106 | | 0.11 | 26.135 | 0.194 | 1471. | -0.4 |
| 107 | 107.9 | 5.332 | 33.104 | | 0.11 | 26.134 | 0.197 | 1471. | -0.5 |
| 109 | 110.1 | 5.328 | 33.103 | | 0.11 | 26.135 | 0.202 | 1471. | -0.4 |
| 111 | 111.6 | 5.335 | 33.105 | | 0.11 | 26.135 | 0.204 | 1471. | -0.5 |
| 113 | 114.2 | 5.343 | 33.104 | | 0.11 | 26.133 | 0.209 | 1472. | -0.2 |
| 115 | 116.0 | 5.355 | 33.107 | | 0.11 | 26.134 | 0.213 | 1472. | 0.4 |
| 117 | 118.0 | 5.359 | 33.108 | | 0.11 | 26.135 | 0.217 | 1472. | 1.1 |
| 119 | 120.0 | 5.362 | 33.106 | | 0.11 | 26.133 | 0.220 | 1472. | 1.5 |
| 121 | 121.8 | 5.449 | 33.123 | | 0.11 | 26.136 | 0.224 | 1472. | 1.7 |
| 123 | 124.3 | 5.718 | 33.164 | | 0.10 | 26.136 | 0.228 | 1473. | 1.9 |
| 125 | 126.0 | 5.854 | 33.197 | | 0.10 | 26.146 | 0.231 | 1474. | 1.9 |
| 127 | 128.0 | 5.867 | 33.202 | | 0.10 | 26.149 | 0.235 | 1474. | 1.9 |
| 129 | 129.8 | 5.882 | 33.203 | | 0.10 | 26.147 | 0.239 | 1474. | 1.8 |
| 131 | 132.0 | 5.914 | 33.212 | | 0.10 | 26.151 | 0.243 | 1474. | 1.6 |
| 133 | 134.2 | 5.920 | 33.213 | | 0.10 | 26.151 | 0.247 | 1474. | 1.3 |
| 135 | 135.8 | 5.938 | 33.217 | | 0.10 | 26.152 | 0.250 | 1474. | 1.4 |
| 137 | 137.8 | 5.956 | 33.221 | | 0.10 | 26.153 | 0.254 | 1475. | 1.6 |
| 139 | 139.8 | 5.976 | 33.227 | | 0.10 | 26.155 | 0.257 | 1475. | 1.8 |
| 141 | 142.2 | 5.995 | 33.232 | | 0.10 | 26.157 | 0.262 | 1475. | 2.0 |
| 143 | 144.1 | 6.013 | 33.239 | | 0.10 | 26.160 | 0.265 | 1475. | 2.0 |
| 145 | 145.7 | 6.027 | 33.244 | | 0.10 | 26.162 | 0.268 | 1475. | 2.0 |
| 147 | 148.3 | 6.041 | 33.254 | | 0.10 | 26.168 | 0.273 | 1475. | 1.9 |
| 149 | 149.9 | 6.043 | 33.257 | | 0.09 | 26.170 | 0.276 | 1475. | 1.8 |
| 151 | 152.0 | 6.042 | 33.258 | | 0.09 | 26.171 | 0.280 | 1475. | 1.6 |
| 153 | 154.2 | 6.043 | 33.258 | | 0.10 | 26.171 | 0.284 | 1475. | 1.5 |
| 154 | 155.7 | 6.043 | 33.258 | | 0.10 | 26.171 | 0.287 | 1475. | 1.5 |
| 157 | 158.0 | 6.051 | 33.261 | | 0.10 | 26.172 | 0.291 | 1475. | 1.6 |
| 159 | 160.1 | 6.064 | 33.265 | | 0.10 | 26.174 | 0.295 | 1475. | 2.3 |
| 160 | 161.8 | 6.087 | 33.273 | | 0.09 | 26.178 | 0.298 | 1476. | 3.3 |
| 163 | 164.2 | 6.109 | 33.280 | | 0.09 | 26.181 | 0.302 | 1476. | 3.9 |
| 164 | 165.9 | 6.151 | 33.290 | | 0.10 | 26.183 | 0.306 | 1476. | 4.5 |
| 167 | 167.9 | 6.281 | 33.344 | | 0.12 | 26.209 | 0.309 | 1477. | 4.8 |
| 169 | 170.2 | 6.413 | 33.406 | | 0.13 | 26.241 | 0.313 | 1477. | 4.9 |
| 171 | 172.0 | 6.470 | 33.430 | | 0.14 | 26.252 | 0.317 | 1477. | 5.0 |
| 172 | 173.8 | 6.514 | 33.457 | | 0.15 | 26.268 | 0.320 | 1478. | 4.9 |
| 175 | 176.1 | 6.539 | 33.474 | | 0.15 | 26.278 | 0.324 | 1478. | 4.8 |
| 176 | 178.0 | 6.556 | 33.489 | | 0.15 | 26.288 | 0.327 | 1478. | 5.1 |
| 179 | 180.1 | 6.583 | 33.510 | | 0.16 | 26.301 | 0.331 | 1478. | 5.6 |
| 180 | 181.8 | 6.607 | 33.537 | | 0.16 | 26.319 | 0.334 | 1478. | 5.7 |
| 183 | 184.2 | 6.631 | 33.573 | | 0.15 | 26.345 | 0.338 | 1478. | 5.8 |
| 184 | 186.0 | 6.636 | 33.634 | | 0.15 | 26.392 | 0.341 | 1479. | 5.6 |
| 187 | 188.2 | 6.638 | 33.667 | | 0.17 | 26.418 | 0.345 | 1479. | 5.1 |
| 188 | 190.0 | 6.638 | 33.669 | | 0.16 | 26.419 | 0.348 | 1479. | 4.4 |
| 190 | 191.8 | 6.638 | 33.673 | | 0.16 | 26.422 | 0.350 | 1479. | 3.5 |
| 192 | 194.1 | 6.639 | 33.676 | | 0.17 | 26.424 | 0.354 | 1479. | 2.4 |
| 194 | 196.1 | 6.640 | 33.677 | | 0.16 | 26.426 | 0.357 | 1479. | 1.8 |
| 196 | 198.1 | 6.641 | 33.681 | | 0.17 | 26.428 | 0.361 | 1479. | 2.0 |
| 198 | 200.0 | 6.640 | 33.685 | | 0.17 | 26.431 | 0.364 | 1479. | 2.2 |

| SHIP OC | CRUISE 181 | STATION 92 | DATE 15 FEB 1987 | EST 0453 | LATITUDE 42°40.1'N | LONGITUDE 69°38.5'W | DEPTH 283 | | | | | | | | | | | | |
|------------|---------------|---------------|---------------------|-------------|------------------------|----------------------------|--|--------------|----------|--|--|--|--|--|--|--|--|--|--|
| DEPTH m | PRESS dbar | TEMP °C | SALIN psu | OXY ml/l | ATN m ⁻¹ | SIGT gm/cm ³ | DYHT A 10m ² /s ² | S SPD m/s | N cph | | | | | | | | | | |
| 200 | 201.9 | 6.641 | 33.685 | 0.17 | 26.431 | 0.367 | 1479. | 2.4 | | | | | | | | | | | |
| 202 | 204.0 | 6.664 | 33.693 | 0.19 | 26.435 | 0.370 | 1479. | 2.6 | | | | | | | | | | | |
| 204 | 206.1 | 6.691 | 33.708 | 0.21 | 26.443 | 0.374 | 1479. | 2.7 | | | | | | | | | | | |
| 206 | 207.9 | 6.705 | 33.719 | 0.21 | 26.450 | 0.377 | 1479. | 2.7 | | | | | | | | | | | |
| 208 | 209.9 | 6.709 | 33.726 | 0.22 | 26.455 | 0.380 | 1479. | 2.6 | | | | | | | | | | | |
| 210 | 212.0 | 6.713 | 33.731 | 0.22 | 26.458 | 0.383 | 1479. | 2.6 | | | | | | | | | | | |
| 212 | 214.1 | 6.714 | 33.734 | 0.22 | 26.461 | 0.386 | 1479. | 2.5 | | | | | | | | | | | |
| 214 | 216.0 | 6.716 | 33.737 | 0.23 | 26.462 | 0.389 | 1480. | 2.4 | | | | | | | | | | | |
| 216 | 217.6 | 6.718 | 33.741 | 0.24 | 26.465 | 0.392 | 1480. | 2.3 | | | | | | | | | | | |
| 218 | 220.1 | 6.722 | 33.751 | 0.25 | 26.472 | 0.396 | 1480. | 2.3 | | | | | | | | | | | |
| 220 | 222.1 | 6.724 | 33.757 | 0.25 | 26.477 | 0.399 | 1480. | 2.4 | | | | | | | | | | | |
| 222 | 224.0 | 6.724 | 33.758 | 0.24 | 26.478 | 0.402 | 1480. | 2.5 | | | | | | | | | | | |
| 224 | 225.9 | 6.722 | 33.759 | 0.23 | 26.479 | 0.405 | 1480. | 2.5 | | | | | | | | | | | |
| 226 | 228.2 | 6.718 | 33.765 | 0.21 | 26.484 | 0.409 | 1480. | 2.5 | | | | | | | | | | | |
| 228 | 230.0 | 6.718 | 33.771 | 0.21 | 26.489 | 0.411 | 1480. | 2.6 | | | | | | | | | | | |
| 230 | 232.0 | 6.720 | 33.780 | 0.22 | 26.495 | 0.414 | 1480. | 2.7 | | | | | | | | | | | |
| 232 | 234.1 | 6.722 | 33.785 | 0.23 | 26.499 | 0.418 | 1480. | 2.7 | | | | | | | | | | | |
| 234 | 235.8 | 6.725 | 33.793 | 0.26 | 26.505 | 0.420 | 1480. | 2.5 | | | | | | | | | | | |
| 236 | 238.0 | 6.730 | 33.799 | 0.28 | 26.509 | 0.424 | 1480. | 2.3 | | | | | | | | | | | |
| 238 | 240.0 | 6.736 | 33.805 | 0.30 | 26.513 | 0.427 | 1480. | 2.0 | | | | | | | | | | | |
| 240 | 241.8 | 6.737 | 33.806 | 0.31 | 26.514 | 0.430 | 1480. | 1.7 | | | | | | | | | | | |
| 242 | 244.2 | 6.739 | 33.808 | 0.32 | 26.515 | 0.433 | 1480. | 1.4 | | | | | | | | | | | |
| 244 | 245.8 | 6.740 | 33.809 | 0.32 | 26.516 | 0.436 | 1480. | 1.2 | | | | | | | | | | | |
| 246 | 248.2 | 6.740 | 33.809 | 0.32 | 26.516 | 0.440 | 1480. | 1.2 | | | | | | | | | | | |
| 247 | 249.6 | 6.740 | 33.809 | 0.32 | 26.516 | 0.442 | 1480. | 1.3 | | | | | | | | | | | |
| 250 | 252.2 | 6.741 | 33.810 | 0.32 | 26.517 | 0.446 | 1480. | 1.4 | | | | | | | | | | | |
| 252 | 254.0 | 6.742 | 33.813 | 0.33 | 26.518 | 0.449 | 1480. | 1.4 | | | | | | | | | | | |
| 254 | 255.9 | 6.746 | 33.818 | 0.35 | 26.522 | 0.451 | 1480. | 1.6 | | | | | | | | | | | |
| 256 | 258.2 | 6.748 | 33.819 | 0.37 | 26.523 | 0.455 | 1480. | 1.8 | | | | | | | | | | | |
| 258 | 260.2 | 6.749 | 33.821 | 0.38 | 26.524 | 0.458 | 1480. | 2.1 | | | | | | | | | | | |
| 260 | 262.0 | 6.751 | 33.822 | 0.40 | 26.525 | 0.461 | 1481. | 2.5 | | | | | | | | | | | |
| 262 | 263.9 | 6.753 | 33.827 | 0.40 | 26.528 | 0.464 | 1481. | 2.7 | | | | | | | | | | | |
| 264 | 265.9 | 6.760 | 33.838 | 0.44 | 26.536 | 0.467 | 1481. | 3.4 | | | | | | | | | | | |
| 265 | 267.3 | 6.768 | 33.847 | 0.45 | 26.543 | 0.469 | 1481. | 3.9 | | | | | | | | | | | |
| 266 | 268.0 | 6.776 | 33.858 | 0.54 | 26.550 | 0.470 | 1481. | 4.3 | | | | | | | | | | | |
| 267 | 269.0 | 6.780 | 33.863 | 0.61 | 26.553 | 0.471 | 1481. | 4.5 | | | | | | | | | | | |
| 268 | 270.1 | 6.806 | 33.892 | 0.74 | 26.572 | 0.473 | 1481. | 4.4 | | | | | | | | | | | |
| 269 | 270.9 | 6.812 | 33.898 | 0.84 | 26.576 | 0.474 | 1481. | 4.0 | | | | | | | | | | | |
| 270 | 272.1 | 6.817 | 33.903 | 0.87 | 26.580 | 0.476 | 1481. | 3.4 | | | | | | | | | | | |
| 271 | 273.0 | 6.817 | 33.903 | 0.90 | 26.580 | 0.477 | 1481. | 2.8 | | | | | | | | | | | |
| 272 | 274.1 | 6.818 | 33.904 | 0.90 | 26.580 | 0.479 | 1481. | 2.8 | | | | | | | | | | | |
| 273 | 275.0 | 6.818 | 33.904 | 0.91 | 26.580 | 0.480 | 1481. | 2.8 | | | | | | | | | | | |
| 274 | 276.0 | 6.818 | 33.904 | 0.92 | 26.580 | 0.482 | 1481. | 2.8 | | | | | | | | | | | |
| 274 | 276.6 | 6.818 | 33.904 | 0.96 | 26.581 | 0.483 | 1481. | 2.8 | | | | | | | | | | | |

430

| SHIP OC | CRUISE 181 | STATION 93 | DATE 15 FEB 1987 | EST 0636 | LATITUDE 42°48.1'N | LONGITUDE 69°45.6'W | DEPTH 261 | | | | | | | | | | | | |
|------------|---------------|---------------|---------------------|-------------|------------------------|----------------------------|--|--------------|----------|--|--|--|--|--|--|--|--|--|--|
| DEPTH m | PRESS dbar | TEMP °C | SALIN psu | OXY ml/l | ATN m ⁻¹ | SIGT gm/cm ³ | DYHT A 10m ² /s ² | S SPD m/s | N cph | | | | | | | | | | |
| 4 | 4.5 | 4.134 | 32.669 | 0.14 | 25.919 | 0.000 | 1464. | -0.6 | | | | | | | | | | | |
| 6 | 6.1 | 4.134 | 32.669 | 0.14 | 25.919 | 0.003 | 1464. | -0.6 | | | | | | | | | | | |
| 8 | 8.0 | 4.131 | 32.669 | 0.14 | 25.919 | 0.007 | 1464. | -0.6 | | | | | | | | | | | |
| 10 | 10.0 | 4.132 | 32.668 | 0.14 | 25.918 | 0.012 | 1464. | -0.6 | | | | | | | | | | | |
| 12 | 12.0 | 4.138 | 32.668 | 0.14 | 25.918 | 0.016 | 1464. | -0.6 | | | | | | | | | | | |
| 14 | 14.0 | 4.136 | 32.668 | 0.14 | 25.918 | 0.020 | 1464. | -0.6 | | | | | | | | | | | |
| 16 | 15.9 | 4.148 | 32.668 | 0.14 | 25.917 | 0.024 | 1464. | -0.6 | | | | | | | | | | | |
| 18 | 18.2 | 4.149 | 32.669 | 0.14 | 25.917 | 0.029 | 1465. | -0.2 | | | | | | | | | | | |
| 20 | 20.0 | 4.148 | 32.668 | 0.14 | 25.917 | 0.032 | 1465. | -0.1 | | | | | | | | | | | |
| 22 | 21.9 | 4.157 | 32.670 | 0.14 | 25.918 | 0.036 | 1465. | 0.4 | | | | | | | | | | | |
| 24 | 24.0 | 4.158 | 32.670 | 0.14 | 25.917 | 0.041 | 1465. | 0.7 | | | | | | | | | | | |
| 26 | 25.9 | 4.179 | 32.674 | 0.14 | 25.919 | 0.045 | 1465. | 1.0 | | | | | | | | | | | |
| 28 | 28.3 | 4.183 | 32.673 | 0.14 | 25.917 | 0.049 | 1465. | 1.4 | | | | | | | | | | | |
| 30 | 29.8 | 4.201 | 32.677 | 0.14 | 25.918 | 0.053 | 1465. | 1.6 | | | | | | | | | | | |
| 32 | 32.0 | 4.235 | 32.684 | 0.14 | 25.921 | 0.057 | 1465. | 1.9 | | | | | | | | | | | |
| 34 | 34.1 | 4.295 | 32.696 | 0.14 | 25.924 | 0.061 | 1465. | 2.1 | | | | | | | | | | | |
| 36 | 36.0 | 4.308 | 32.702 | 0.14 | 25.928 | 0.065 | 1466. | 2.3 | | | | | | | | | | | |
| 38 | 38.0 | 4.318 | 32.705 | 0.14 | 25.929 | 0.070 | 1466. | 2.6 | | | | | | | | | | | |
| 40 | 40.0 | 4.366 | 32.719 | 0.14 | 25.935 | 0.074 | 1466. | 2.8 | | | | | | | | | | | |
| 42 | 42.0 | 4.386 | 32.725 | 0.14 | 25.938 | 0.078 | 1466. | 2.9 | | | | | | | | | | | |
| 44 | 44.0 | 4.435 | 32.741 | 0.14 | 25.946 | 0.082 | 1466. | 2.9 | | | | | | | | | | | |
| 46 | 46.0 | 4.511 | 32.761 | 0.13 | 25.954 | 0.086 | 1467. | 2.8 | | | | | | | | | | | |
| 48 | 48.0 | 4.577 | 32.781 | 0.12 | 25.962 | 0.090 | 1467. | 2.6 | | | | | | | | | | | |
| 50 | 49.9 | 4.590 | 32.783 | 0.12 | 25.963 | 0.094 | 1467. | 2.5 | | | | | | | | | | | |
| 51 | 51.9 | 4.592 | 32.784 | 0.12 | 25.963 | 0.098 | 1467. | 2.4 | | | | | | | | | | | |
| 54 | 54.0 | 4.633 | 32.791 | 0.12 | 25.964 | 0.102 | 1467. | 2.3 | | | | | | | | | | | |
| 56 | 56.0 | 4.711 | 32.809 | 0.12 | 25.970 | 0.106 | 1468. | 2.3 | | | | | | | | | | | |
| 58 | 58.1 | 4.770 | 32.823 | 0.12 | 25.975 | 0.111 | 1468. | 2.5 | | | | | | | | | | | |
| 59 | 59.9 | 4.797 | 32.833 | 0.12 | 25.980 | 0.114 | 1468. | 2.6 | | | | | | | | | | | |
| 62 | 62.1 | 4.821 | 32.839 | 0.12 | 25.982 | 0.119 | 1468. | 2.7 | | | | | | | | | | | |
| 63 | 63.9 | 4.867 | 32.854 | 0.12 | 25.989 | 0.122 | 1468. | 2.9 | | | | | | | | | | | |
| 65 | 66.0 | 4.926 | 32.868 | 0.12 | 25.993 | 0.127 | 1469. | 3.0 | | | | | | | | | | | |
| 68 | 68.1 | 4.985 | 32.881 | 0.11 | 25.997 | 0.131 | 1469. | 3.1 | | | | | | | | | | | |
| 69 | 70.0 | 5.278 | 32.929 | 0.11 | 26.002 | 0.135 | 1470. | 3.1 | | | | | | | | | | | |
| 71 | 71.9 | 5.410 | 32.970 | 0.11 | 26.019 | 0.138 | 1471. | 3.1 | | | | | | | | | | | |
| 74 | 74.2 | 5.442 | 32.978 | 0.11 | 26.022 | 0.143 | 1471. | 3.0 | | | | | | | | | | | |
| 75 | 75.9 | 5.457 | 32.986 | 0.11 | 26.027 | 0.146 | 1471. | 2.9 | | | | | | | | | | | |
| 77 | 78.1 | 5.471 | 32.990 | 0.11 | 26.028 | 0.151 | 1471. | 2.7 | | | | | | | | | | | |
| 79 | 79.8 | 5.497 | 33.004 | 0.12 | 26.036 | 0.154 | 1472. | 2.5 | | | | | | | | | | | |
| 81 | 81.9 | 5.504 | 33.007 | 0.11 | 26.038 | 0.158 | 1472. | 2.5 | | | | | | | | | | | |
| 83 | 83.9 | 5.492 | 33.009 | 0.11 | 26.041 | 0.162 | 1472. | 2.5 | | | | | | | | | | | |
| 86 | 86.2 | 5.496 | 33.017 | 0.11 | 26.047 | 0.167 | 1472. | 2.5 | | | | | | | | | | | |
| 87 | 88.0 | 5.497 | 33.021 | 0.11 | 26.049 | 0.170 | 1472. | 2.3 | | | | | | | | | | | |
| 89 | 89.9 | 5.412 | 33.014 | 0.10 | 26.054 | 0.174 | 1471. | 2.2 | | | | | | | | | | | |
| 91 | 92.1 | 5.392 | 33.016 | 0.10 | 26.058 | 0.178 | 1471. | 2.1 | | | | | | | | | | | |
| 93 | 93.8 | 5.396 | 33.017 | 0.10 | 26.058 | 0.181 | 1471. | 2.0 | | | | | | | | | | | |
| 96 | 96.3 | 5.409 | 33.021 | 0.10 | 26.060 | 0.186 | 1471. | 1.9 | | | | | | | | | | | |
| 97 | 98.2 | 5.423 | 33.026 | 0.10 | 26.063 | 0.190 | 1472. | 1.8 | | | | | | | | | | | |
| 99 | 100.0 | 5.436 | 33.031 | 0.10 | 26.065 | 0.194 | 1472. | 1.8 | | | | | | | | | | | |
| 101 | 102.0 | 5.461 | 33.038 | 0.10 | 26.068 | 0.198 | 1472. | 1.8 | | | | | | | | | | | |

| SHIP OC | CRUISE 181 | STATION 93 | DATE 15 FEB 1987 | | EST 0636 | LATITUDE 42°48.1'N | LONGITUDE 69°45.6'W | DEPTH 261 | | |
|------------|---------------|---------------|---------------------|-------------|------------------------|----------------------------|--|--------------|----------|--|
| DEPTH m | PRESS dbar | TEMP °C | SALIN psu | OXY ml/l | ATN m ⁻¹ | SIGT gm/cm ³ | DYHT A 10m ² /s ² | S SPD m/s | N cph | |
| 103 | 103.9 | 5.473 | 33.043 | | 0.10 | 26.070 | 0.201 | 1472. | 2.1 | |
| 105 | 105.8 | 5.478 | 33.043 | | 0.10 | 26.070 | 0.205 | 1472. | 2.3 | |
| 107 | 108.2 | 5.511 | 33.053 | | 0.10 | 26.073 | 0.210 | 1472. | 2.5 | |
| 109 | 109.9 | 5.568 | 33.063 | | 0.10 | 26.075 | 0.213 | 1472. | 2.6 | |
| 111 | 112.1 | 5.628 | 33.089 | | 0.10 | 26.088 | 0.217 | 1473. | 2.6 | |
| 113 | 114.0 | 5.594 | 33.090 | | 0.11 | 26.093 | 0.221 | 1473. | 2.7 | |
| 115 | 115.9 | 5.588 | 33.090 | | 0.11 | 26.094 | 0.224 | 1473. | 2.6 | |
| 117 | 118.2 | 5.641 | 33.102 | | 0.11 | 26.097 | 0.229 | 1473. | 2.3 | |
| 119 | 120.0 | 5.693 | 33.114 | | 0.11 | 26.100 | 0.232 | 1473. | 1.9 | |
| 121 | 121.8 | 5.745 | 33.128 | | 0.11 | 26.105 | 0.236 | 1473. | 1.9 | |
| 123 | 123.9 | 5.770 | 33.133 | | 0.11 | 26.106 | 0.240 | 1473. | 1.9 | |
| 125 | 126.2 | 5.792 | 33.136 | | 0.11 | 26.106 | 0.244 | 1474. | 1.9 | |
| 127 | 127.8 | 5.865 | 33.148 | | 0.15 | 26.106 | 0.247 | 1474. | 1.8 | |
| 129 | 130.2 | 6.075 | 33.191 | | 0.19 | 26.115 | 0.252 | 1475. | 2.0 | |
| 131 | 131.8 | 6.130 | 33.202 | | 0.21 | 26.116 | 0.255 | 1475. | 2.3 | |
| 133 | 134.1 | 6.218 | 33.220 | | 0.24 | 26.119 | 0.259 | 1476. | 2.5 | |
| 135 | 136.0 | 6.313 | 33.233 | | 0.28 | 26.117 | 0.263 | 1476. | 2.6 | |
| 137 | 138.1 | 6.386 | 33.261 | | 0.28 | 26.130 | 0.267 | 1476. | 2.5 | |
| 139 | 140.1 | 6.387 | 33.268 | | 0.28 | 26.135 | 0.271 | 1476. | 2.6 | |
| 141 | 141.8 | 6.379 | 33.269 | | 0.28 | 26.137 | 0.274 | 1476. | 2.6 | |
| 143 | 144.1 | 6.381 | 33.274 | | 0.28 | 26.141 | 0.278 | 1476. | 2.8 | |
| 145 | 146.1 | 6.388 | 33.280 | | 0.28 | 26.145 | 0.282 | 1476. | 2.8 | |
| 147 | 147.8 | 6.382 | 33.282 | | 0.28 | 26.147 | 0.285 | 1477. | 2.9 | |
| 149 | 149.9 | 6.362 | 33.287 | | 0.28 | 26.154 | 0.289 | 1476. | 3.0 | |
| 151 | 151.9 | 6.301 | 33.289 | | 0.25 | 26.163 | 0.293 | 1476. | 3.0 | |
| 153 | 153.8 | 6.274 | 33.294 | | 0.24 | 26.171 | 0.296 | 1476. | 3.0 | |
| 154 | 155.8 | 6.277 | 33.300 | | 0.25 | 26.175 | 0.300 | 1476. | 2.9 | |
| 157 | 158.1 | 6.297 | 33.309 | | 0.27 | 26.179 | 0.304 | 1476. | 2.8 | |
| 159 | 159.9 | 6.308 | 33.317 | | 0.29 | 26.184 | 0.307 | 1476. | 3.0 | |
| 161 | 162.0 | 6.321 | 33.325 | | 0.29 | 26.189 | 0.311 | 1477. | 3.3 | |
| 163 | 164.1 | 6.326 | 33.327 | | 0.30 | 26.190 | 0.315 | 1477. | 3.6 | |
| 164 | 165.7 | 6.346 | 33.340 | | 0.38 | 26.197 | 0.318 | 1477. | 4.0 | |
| 167 | 168.1 | 6.410 | 33.382 | | 0.42 | 26.223 | 0.322 | 1477. | 4.6 | |
| 168 | 169.8 | 6.432 | 33.397 | | 0.47 | 26.232 | 0.326 | 1477. | 5.3 | |
| 171 | 172.1 | 6.457 | 33.413 | | 0.50 | 26.241 | 0.330 | 1477. | 5.7 | |
| 172 | 173.9 | 6.488 | 33.440 | | 0.60 | 26.258 | 0.333 | 1478. | 5.9 | |
| 175 | 176.1 | 6.555 | 33.509 | | 0.70 | 26.304 | 0.337 | 1478. | 6.0 | |
| 176 | 177.8 | 6.602 | 33.555 | | 0.69 | 26.334 | 0.340 | 1478. | 6.0 | |
| 178 | 180.0 | 6.628 | 33.581 | | 0.58 | 26.351 | 0.343 | 1478. | 5.9 | |
| 180 | 182.0 | 6.656 | 33.607 | | 0.46 | 26.368 | 0.347 | 1479. | 5.6 | |
| 183 | 184.1 | 6.692 | 33.641 | | 0.40 | 26.390 | 0.350 | 1479. | 5.1 | |
| 184 | 185.9 | 6.695 | 33.657 | | 0.22 | 26.402 | 0.353 | 1479. | 4.8 | |
| 186 | 188.0 | 6.710 | 33.676 | | 0.17 | 26.415 | 0.357 | 1479. | 4.5 | |
| 188 | 189.9 | 6.714 | 33.696 | | 0.16 | 26.431 | 0.360 | 1479. | 4.2 | |
| 191 | 192.1 | 6.712 | 33.711 | | 0.15 | 26.442 | 0.363 | 1479. | 3.8 | |
| 192 | 194.0 | 6.711 | 33.716 | | 0.15 | 26.447 | 0.366 | 1479. | 3.7 | |
| 194 | 196.0 | 6.712 | 33.722 | | 0.15 | 26.451 | 0.369 | 1479. | 3.4 | |
| 196 | 198.0 | 6.711 | 33.731 | | 0.15 | 26.458 | 0.373 | 1479. | 3.2 | |
| 198 | 200.0 | 6.709 | 33.740 | | 0.15 | 26.466 | 0.376 | 1479. | 3.2 | |
| 200 | 201.9 | 6.715 | 33.753 | | 0.15 | 26.475 | 0.379 | 1479. | 3.1 | |

| SHIP OC | CRUISE 181 | STATION 93 | DATE 15 FEB 1987 | | EST 0636 | LATITUDE 42°48.1'N | LONGITUDE 69°45.6'W | DEPTH 261 | | |
|------------|---------------|---------------|---------------------|-------------|------------------------|----------------------------|--|--------------|----------|--|
| DEPTH m | PRESS dbar | TEMP °C | SALIN psu | OXY ml/l | ATN m ⁻¹ | SIGT gm/cm ³ | DYHT A 10m ² /s ² | S SPD m/s | N cph | |
| 202 | 204.0 | 6.718 | 33.759 | | 0.15 | 26.480 | 0.382 | 1479. | 3.2 | |
| 204 | 205.9 | 6.719 | 33.764 | | 0.16 | 26.483 | 0.385 | 1479. | 3.1 | |
| 206 | 207.9 | 6.723 | 33.775 | | 0.17 | 26.491 | 0.388 | 1479. | 3.0 | |
| 208 | 210.0 | 6.725 | 33.780 | | 0.17 | 26.495 | 0.392 | 1480. | 3.0 | |
| 210 | 211.9 | 6.729 | 33.792 | | 0.18 | 26.504 | 0.394 | 1480. | 3.0 | |
| 212 | 213.9 | 6.732 | 33.799 | | 0.20 | 26.509 | 0.398 | 1480. | 3.0 | |
| 214 | 216.1 | 6.734 | 33.804 | | 0.20 | 26.512 | 0.401 | 1480. | 2.9 | |
| 216 | 218.0 | 6.739 | 33.815 | | 0.22 | 26.521 | 0.404 | 1480. | 2.8 | |
| 218 | 219.8 | 6.741 | 33.819 | | 0.23 | 26.523 | 0.407 | 1480. | 2.7 | |
| 220 | 221.9 | 6.747 | 33.826 | | 0.27 | 26.529 | 0.410 | 1480. | 2.5 | |
| 222 | 224.0 | 6.754 | 33.834 | | 0.34 | 26.534 | 0.413 | 1480. | 2.3 | |
| 224 | 226.0 | 6.759 | 33.839 | | 0.39 | 26.537 | 0.416 | 1480. | 2.0 | |
| 226 | 228.1 | 6.762 | 33.841 | | 0.43 | 26.538 | 0.419 | 1480. | 1.7 | |
| 228 | 229.9 | 6.763 | 33.842 | | 0.45 | 26.539 | 0.422 | 1480. | 1.4 | |
| 230 | 232.1 | 6.764 | 33.843 | | 0.47 | 26.540 | 0.425 | 1480. | 1.3 | |
| 232 | 234.2 | 6.765 | 33.843 | | 0.48 | 26.540 | 0.429 | 1480. | 1.4 | |
| 234 | 235.9 | 6.765 | 33.844 | | 0.49 | 26.540 | 0.431 | 1480. | 1.6 | |
| 236 | 237.9 | 6.766 | 33.846 | | 0.53 | 26.542 | 0.434 | 1480. | 1.9 | |
| 238 | 240.2 | 6.768 | 33.850 | | 0.57 | 26.544 | 0.438 | 1480. | 2.0 | |
| 240 | 241.8 | 6.774 | 33.858 | | 0.63 | 26.550 | 0.440 | 1480. | 2.2 | |
| 242 | 244.3 | 6.779 | 33.863 | | 0.65 | 26.553 | 0.444 | 1480. | 2.2 | |
| 243 | 245.2 | 6.782 | 33.867 | | 0.68 | 26.556 | 0.445 | 1480. | 2.5 | |
| 244 | 246.0 | 6.781 | 33.865 | | 0.68 | 26.555 | 0.446 | 1480. | 2.6 | |
| 245 | 247.0 | 6.783 | 33.867 | | 0.69 | 26.556 | 0.448 | 1480. | 2.7 | |
| 246 | 248.0 | 6.785 | 33.869 | | 0.71 | 26.557 | 0.449 | 1480. | 2.9 | |
| 247 | 248.9 | 6.799 | 33.883 | | 0.75 | 26.566 | 0.451 | 1481. | 2.9 | |
| 248 | 249.9 | 6.802 | 33.884 | | 0.75 | 26.567 | 0.452 | 1481. | 2.8 | |
| 249 | 251.0 | 6.807 | 33.890 | | 0.77 | 26.571 | 0.454 | 1481. | 2.8 | |
| 250 | 252.0 | 6.811 | 33.893 | | 0.79 | 26.573 | 0.455 | 1481. | 2.8 | |
| 251 | 253.0 | 6.811 | 33.893 | | 0.79 | 26.573 | 0.457 | 1481. | 2.8 | |
| 252 | 254.0 | 6.811 | 33.893 | | 0.79 | 26.573 | 0.458 | 1481. | 2.8 | |

SHIP OC CRUISE 181 STATION 94 DATE 15 FEB 1987 EST 0813 LATITUDE 42°56.9'N LONGITUDE 69°52.1'W DEPTH 231

| DEPTH m | PRESS dbar | TEMP °C | SALIN psu | OXY ml/l | ATN m ⁻¹ | SIGT gm/cm ³ | DYHT A 10m ² /s ² | S SPD m/s | N cph |
|------------|---------------|------------|--------------|-------------|------------------------|----------------------------|--|--------------|----------|
| 5 | 4.7 | 4.082 | 32.690 | 0.14 | 25.941 | 0.000 | 1464. | -0.6 | |
| 6 | 6.0 | 4.081 | 32.690 | 0.14 | 25.941 | 0.003 | 1464. | -0.6 | |
| 8 | 7.9 | 4.083 | 32.690 | 0.14 | 25.941 | 0.007 | 1464. | -0.6 | |
| 10 | 10.0 | 4.097 | 32.691 | 0.14 | 25.940 | 0.011 | 1464. | -0.6 | |
| 12 | 12.0 | 4.099 | 32.691 | 0.13 | 25.940 | 0.015 | 1464. | -0.6 | |
| 14 | 14.1 | 4.099 | 32.691 | 0.14 | 25.940 | 0.019 | 1464. | -0.5 | |
| 16 | 15.9 | 4.100 | 32.691 | 0.14 | 25.940 | 0.023 | 1464. | -0.4 | |
| 18 | 18.1 | 4.101 | 32.691 | 0.14 | 25.940 | 0.028 | 1464. | 0.1 | |
| 20 | 20.0 | 4.101 | 32.690 | 0.13 | 25.939 | 0.031 | 1464. | 0.3 | |
| 22 | 21.9 | 4.101 | 32.691 | 0.14 | 25.940 | 0.035 | 1464. | 0.4 | |
| 24 | 24.1 | 4.102 | 32.692 | 0.13 | 25.940 | 0.040 | 1464. | 0.7 | |
| 26 | 25.8 | 4.101 | 32.691 | 0.13 | 25.940 | 0.043 | 1464. | 0.7 | |
| 28 | 28.1 | 4.100 | 32.691 | 0.13 | 25.940 | 0.048 | 1465. | 1.7 | |
| 30 | 29.9 | 4.101 | 32.692 | 0.13 | 25.941 | 0.052 | 1465. | 3.1 | |
| 32 | 32.0 | 4.111 | 32.696 | 0.13 | 25.943 | 0.056 | 1465. | 3.8 | |
| 34 | 34.0 | 4.110 | 32.694 | 0.14 | 25.942 | 0.060 | 1465. | 4.1 | |
| 36 | 36.1 | 4.220 | 32.738 | 0.13 | 25.965 | 0.064 | 1465. | 4.2 | |
| 38 | 38.0 | 4.534 | 32.841 | 0.13 | 26.015 | 0.068 | 1467. | 4.3 | |
| 40 | 40.0 | 4.629 | 32.846 | 0.13 | 26.008 | 0.072 | 1467. | 4.1 | |
| 42 | 42.0 | 4.652 | 32.848 | 0.13 | 26.007 | 0.076 | 1467. | 3.7 | |
| 44 | 43.9 | 4.673 | 32.855 | 0.13 | 26.011 | 0.080 | 1467. | 2.9 | |
| 46 | 46.1 | 4.732 | 32.877 | 0.13 | 26.022 | 0.085 | 1468. | 2.0 | |
| 47 | 47.9 | 4.750 | 32.882 | 0.12 | 26.024 | 0.088 | 1468. | 2.1 | |
| 50 | 50.1 | 4.762 | 32.886 | 0.12 | 26.026 | 0.092 | 1468. | 1.9 | |
| 52 | 52.0 | 4.777 | 32.889 | 0.12 | 26.027 | 0.096 | 1468. | 1.6 | |
| 54 | 53.9 | 4.795 | 32.892 | 0.12 | 26.027 | 0.100 | 1468. | 1.2 | |
| 56 | 56.0 | 4.795 | 32.892 | 0.12 | 26.027 | 0.104 | 1468. | 1.2 | |
| 57 | 57.9 | 4.788 | 32.892 | 0.12 | 26.028 | 0.108 | 1468. | 1.3 | |
| 60 | 60.0 | 4.787 | 32.892 | 0.12 | 26.028 | 0.112 | 1468. | 1.4 | |
| 61 | 61.9 | 4.798 | 32.898 | 0.12 | 26.031 | 0.116 | 1468. | 1.7 | |
| 64 | 64.0 | 4.809 | 32.902 | 0.12 | 26.033 | 0.120 | 1468. | 1.9 | |
| 65 | 66.0 | 4.821 | 32.904 | 0.12 | 26.034 | 0.124 | 1468. | 2.1 | |
| 67 | 68.0 | 4.840 | 32.911 | 0.11 | 26.037 | 0.128 | 1469. | 2.2 | |
| 69 | 70.1 | 4.902 | 32.925 | 0.11 | 26.042 | 0.132 | 1469. | 2.5 | |
| 71 | 71.9 | 4.963 | 32.940 | 0.11 | 26.047 | 0.135 | 1469. | 2.7 | |
| 73 | 74.1 | 5.047 | 32.954 | 0.11 | 26.049 | 0.140 | 1470. | 2.7 | |
| 75 | 76.0 | 5.119 | 32.972 | 0.11 | 26.055 | 0.143 | 1470. | 2.6 | |
| 77 | 78.0 | 5.219 | 33.001 | 0.10 | 26.066 | 0.147 | 1470. | 2.4 | |
| 79 | 80.0 | 5.291 | 33.012 | 0.10 | 26.066 | 0.151 | 1471. | 2.3 | |
| 81 | 82.0 | 5.292 | 33.012 | 0.10 | 26.066 | 0.155 | 1471. | 2.3 | |
| 83 | 84.0 | 5.295 | 33.015 | 0.10 | 26.068 | 0.159 | 1471. | 2.2 | |
| 85 | 85.9 | 5.307 | 33.019 | 0.10 | 26.070 | 0.163 | 1471. | 2.2 | |
| 88 | 88.3 | 5.378 | 33.038 | 0.10 | 26.077 | 0.167 | 1471. | 2.4 | |
| 89 | 89.7 | 5.383 | 33.043 | 0.10 | 26.080 | 0.170 | 1471. | 2.5 | |
| 91 | 92.2 | 5.456 | 33.062 | 0.10 | 26.087 | 0.175 | 1472. | 2.6 | |
| 93 | 94.0 | 5.495 | 33.071 | 0.10 | 26.089 | 0.178 | 1472. | 2.6 | |
| 95 | 96.0 | 5.505 | 33.075 | 0.10 | 26.092 | 0.182 | 1472. | 2.5 | |
| 97 | 98.0 | 5.540 | 33.090 | 0.09 | 26.099 | 0.186 | 1472. | 2.4 | |
| 99 | 100.1 | 5.573 | 33.100 | 0.09 | 26.103 | 0.190 | 1472. | 2.2 | |
| 101 | 102.0 | 5.584 | 33.103 | 0.09 | 26.104 | 0.194 | 1472. | 2.0 | |

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SHIP OC CRUISE 181 STATION 94 DATE 15 FEB 1987 EST 0813 LATITUDE 42°56.9'N LONGITUDE 69°52.1'W DEPTH 231

| DEPTH m | PRESS dbar | TEMP °C | SALIN psu | OXY ml/l | ATN m ⁻¹ | SIGT gm/cm ³ | DYHT A 10m ² /s ² | S SPD m/s | N cph |
|------------|---------------|------------|--------------|-------------|------------------------|----------------------------|--|--------------|----------|
| 103 | 104.0 | 5.602 | 33.110 | 0.09 | 26.108 | 0.197 | 1472. | 1.8 | |
| 105 | 105.9 | 5.605 | 33.110 | 0.09 | 26.108 | 0.201 | 1473. | 1.5 | |
| 107 | 108.1 | 5.610 | 33.112 | 0.09 | 26.108 | 0.205 | 1473. | 1.5 | |
| 109 | 110.0 | 5.617 | 33.114 | 0.09 | 26.109 | 0.209 | 1473. | 1.7 | |
| 111 | 112.0 | 5.630 | 33.117 | 0.09 | 26.110 | 0.213 | 1473. | 1.8 | |
| 113 | 114.0 | 5.661 | 33.127 | 0.09 | 26.114 | 0.216 | 1473. | 1.8 | |
| 115 | 116.0 | 5.730 | 33.139 | 0.12 | 26.115 | 0.220 | 1473. | 1.8 | |
| 117 | 118.0 | 5.808 | 33.161 | 0.15 | 26.123 | 0.224 | 1474. | 1.7 | |
| 119 | 120.0 | 5.858 | 33.167 | 0.16 | 26.122 | 0.228 | 1474. | 1.6 | |
| 121 | 122.0 | 5.878 | 33.170 | 0.17 | 26.122 | 0.232 | 1474. | 1.5 | |
| 123 | 124.0 | 5.883 | 33.173 | 0.16 | 26.123 | 0.235 | 1474. | 1.7 | |
| 125 | 126.0 | 5.858 | 33.167 | 0.14 | 26.122 | 0.239 | 1474. | 1.7 | |
| 127 | 127.9 | 5.846 | 33.171 | 0.10 | 26.126 | 0.243 | 1474. | 2.0 | |
| 129 | 130.1 | 5.867 | 33.178 | 0.09 | 26.129 | 0.247 | 1474. | 2.2 | |
| 131 | 132.0 | 5.902 | 33.191 | 0.09 | 26.135 | 0.250 | 1474. | 2.4 | |
| 133 | 133.9 | 5.939 | 33.198 | 0.09 | 26.136 | 0.254 | 1474. | 2.4 | |
| 135 | 136.1 | 5.990 | 33.215 | 0.09 | 26.144 | 0.258 | 1475. | 2.3 | |
| 137 | 137.9 | 5.998 | 33.219 | 0.09 | 26.145 | 0.262 | 1475. | 2.1 | |
| 139 | 140.1 | 6.016 | 33.226 | 0.09 | 26.149 | 0.266 | 1475. | 2.0 | |
| 141 | 142.0 | 6.021 | 33.227 | 0.09 | 26.149 | 0.269 | 1475. | 1.8 | |
| 143 | 144.0 | 6.039 | 33.233 | 0.09 | 26.152 | 0.273 | 1475. | 1.6 | |
| 145 | 146.0 | 6.047 | 33.235 | 0.09 | 26.153 | 0.277 | 1475. | 1.6 | |
| 147 | 148.0 | 6.061 | 33.240 | 0.09 | 26.155 | 0.280 | 1475. | 1.7 | |
| 149 | 150.0 | 6.074 | 33.243 | 0.08 | 26.155 | 0.284 | 1475. | 1.8 | |
| 151 | 152.1 | 6.089 | 33.248 | 0.08 | 26.158 | 0.288 | 1475. | 1.8 | |
| 153 | 153.9 | 6.116 | 33.257 | 0.08 | 26.161 | 0.292 | 1476. | 1.9 | |
| 155 | 156.1 | 6.140 | 33.265 | 0.08 | 26.164 | 0.296 | 1476. | 1.9 | |
| 157 | 158.0 | 6.155 | 33.269 | 0.08 | 26.165 | 0.299 | 1476. | 1.9 | |
| 159 | 160.0 | 6.158 | 33.271 | 0.08 | 26.167 | 0.303 | 1476. | 1.9 | |
| 161 | 161.9 | 6.173 | 33.279 | 0.09 | 26.171 | 0.307 | 1476. | 1.8 | |
| 163 | 163.9 | 6.184 | 33.280 | 0.09 | 26.171 | 0.310 | 1476. | 1.8 | |
| 165 | 166.1 | 6.203 | 33.289 | 0.09 | 26.175 | 0.314 | 1476. | 1.8 | |
| 166 | 167.9 | 6.202 | 33.289 | 0.09 | 26.176 | 0.317 | 1476. | 2.4 | |
| 169 | 170.1 | 6.156 | 33.285 | 0.10 | 26.179 | 0.322 | 1476. | 2.8 | |
| 171 | 171.9 | 6.136 | 33.283 | 0.11 | 26.180 | 0.325 | 1476. | 3.3 | |
| 172 | 173.9 | 6.114 | 33.284 | 0.12 | 26.183 | 0.329 | 1476. | 3.7 | |
| 175 | 176.1 | 6.200 | 33.328 | 0.15 | 26.206 | 0.333 | 1476. | 4.0 | |
| 176 | 177.7 | 6.262 | 33.346 | 0.15 | 26.213 | 0.336 | 1477. | 4.2 | |
| 179 | 180.1 | 6.364 | 33.383 | 0.15 | 26.230 | 0.340 | 1477. | 4.4 | |
| 180 | 182.0 | 6.411 | 33.405 | 0.14 | 26.241 | 0.343 | 1477. | 4.3 | |
| 183 | 184.1 | 6.461 | 33.430 | 0.21 | 26.254 | 0.347 | 1478. | 4.1 | |
| 184 | 185.8 | 6.468 | 33.436 | 0.24 | 26.258 | 0.350 | 1478. | 4.0 | |
| 187 | 188.1 | 6.494 | 33.465 | 0.30 | 26.277 | 0.354 | 1478. | 3.7 | |
| 188 | 190.0 | 6.506 | 33.471 | 0.30 | 26.280 | 0.357 | 1478. | 3.6 | |
| 190 | 191.9 | 6.524 | 33.482 | 0.25 | 26.287 | 0.361 | 1478. | 3.6 | |
| 192 | 194.1 | 6.568 | 33.502 | 0.23 | 26.297 | 0.365 | 1478. | 3.8 | |
| 194 | 195.9 | 6.586 | 33.509 | 0.24 | 26.300 | 0.368 | 1478. | 4.4 | |
| 196 | 198.0 | 6.613 | 33.528 | 0.25 | 26.312 | 0.371 | 1479. | 5.1 | |
| 198 | 200.0 | 6.623 | 33.542 | 0.24 | 26.321 | 0.375 | 1479. | 5.6 | |
| 200 | 202.0 | 6.604 | 33.571 | 0.27 | 26.346 | 0.378 | 1479. | 6.0 | |

| SHIP OC | CRUISE 181 | STATION 94 | DATE 15 FEB 1987 | | EST 0813 | LATITUDE 42°56.9'N | LONGITUDE 69°52.1'W | DEPTH 231 | | |
|------------|---------------|---------------|---------------------|-------------|------------------------|----------------------------|--|--------------|----------|--|
| DEPTH m | PRESS dbar | TEMP °C | SALIN psu | OXY ml/l | ATN m ⁻¹ | SIGT gm/cm ³ | DYHT A 10m ² /s ² | S SPD m/s | N cph | |
| 202 | 204.0 | 6.629 | 33.628 | | 0.32 | 26.388 | 0.382 | 1479. | 6.3 | |
| 204 | 206.1 | 6.664 | 33.674 | | 0.36 | 26.420 | 0.385 | 1479. | 6.5 | |
| 206 | 208.0 | 6.706 | 33.714 | | 0.41 | 26.446 | 0.388 | 1479. | 6.5 | |
| 208 | 209.9 | 6.724 | 33.732 | | 0.43 | 26.458 | 0.391 | 1479. | 6.3 | |
| 210 | 212.1 | 6.758 | 33.782 | | 0.34 | 26.492 | 0.395 | 1480. | 5.9 | |
| 212 | 213.9 | 6.772 | 33.806 | | 0.37 | 26.510 | 0.397 | 1480. | 5.6 | |
| 213 | 215.3 | 6.782 | 33.830 | | 0.57 | 26.527 | 0.400 | 1480. | 5.2 | |
| 214 | 216.1 | 6.783 | 33.835 | | 0.62 | 26.530 | 0.401 | 1480. | 4.6 | |
| 215 | 216.9 | 6.780 | 33.832 | | 0.66 | 26.529 | 0.402 | 1480. | 3.4 | |
| 216 | 218.0 | 6.783 | 33.835 | | 0.73 | 26.530 | 0.404 | 1480. | 2.7 | |
| 217 | 219.1 | 6.785 | 33.838 | | 0.76 | 26.533 | 0.405 | 1480. | 2.1 | |
| 218 | 220.0 | 6.782 | 33.831 | | 0.72 | 26.528 | 0.407 | 1480. | 2.2 | |
| 219 | 220.9 | 6.783 | 33.834 | | 0.78 | 26.530 | 0.408 | 1480. | 2.5 | |
| 220 | 222.0 | 6.790 | 33.849 | | 0.89 | 26.541 | 0.410 | 1480. | 2.5 | |
| 221 | 223.1 | 6.789 | 33.847 | | 0.89 | 26.539 | 0.411 | 1480. | 2.5 | |
| 222 | 224.0 | 6.789 | 33.849 | | 0.91 | 26.541 | 0.413 | 1480. | 2.5 | |
| 223 | 224.7 | 6.792 | 33.852 | | 0.94 | 26.543 | 0.414 | 1480. | 2.5 | |

| SHIP OC | CRUISE 181 | STATION 95 | DATE 15 FEB 1987 | | EST 0923 | LATITUDE 43°05.4'N | LONGITUDE 69°58.5'W | DEPTH 157 | | |
|------------|---------------|---------------|---------------------|-------------|------------------------|----------------------------|--|--------------|----------|--|
| DEPTH m | PRESS dbar | TEMP °C | SALIN psu | OXY ml/l | ATN m ⁻¹ | SIGT gm/cm ³ | DYHT A 10m ² /s ² | S SPD m/s | N cph | |
| 2 | 2.4 | 3.849 | 32.558 | | 0.14 | 25.859 | 0.000 | 1463. | 1.1 | |
| 4 | 4.0 | 3.858 | 32.557 | | 0.14 | 25.857 | 0.004 | 1463. | 1.1 | |
| 6 | 6.1 | 3.853 | 32.558 | | 0.14 | 25.858 | 0.008 | 1463. | 1.1 | |
| 8 | 8.1 | 3.853 | 32.557 | | 0.14 | 25.858 | 0.012 | 1463. | 1.1 | |
| 10 | 9.8 | 3.862 | 32.559 | | 0.14 | 25.859 | 0.016 | 1463. | 1.1 | |
| 12 | 12.0 | 3.862 | 32.556 | | 0.14 | 25.856 | 0.021 | 1463. | 1.1 | |
| 14 | 13.9 | 3.880 | 32.563 | | 0.14 | 25.860 | 0.025 | 1463. | 1.2 | |
| 16 | 16.0 | 3.859 | 32.558 | | 0.13 | 25.857 | 0.029 | 1463. | 2.5 | |
| 18 | 18.1 | 3.881 | 32.575 | | 0.13 | 25.869 | 0.033 | 1463. | 3.4 | |
| 20 | 20.0 | 3.883 | 32.564 | | 0.14 | 25.860 | 0.038 | 1463. | 4.7 | |
| 22 | 22.0 | 3.874 | 32.568 | | 0.13 | 25.864 | 0.042 | 1463. | 5.7 | |
| 24 | 24.0 | 4.110 | 32.651 | | 0.12 | 25.907 | 0.046 | 1464. | 6.2 | |
| 26 | 26.0 | 4.703 | 32.755 | | 0.12 | 25.928 | 0.050 | 1467. | 6.5 | |
| 28 | 28.0 | 5.440 | 32.942 | | 0.12 | 25.993 | 0.054 | 1470. | 6.5 | |
| 30 | 29.9 | 5.537 | 32.992 | | 0.11 | 26.022 | 0.058 | 1471. | 6.1 | |
| 32 | 32.0 | 5.546 | 32.997 | | 0.10 | 26.025 | 0.062 | 1471. | 5.3 | |
| 34 | 34.0 | 5.497 | 33.016 | | 0.10 | 26.046 | 0.066 | 1471. | 4.4 | |
| 36 | 36.0 | 5.481 | 33.017 | | 0.11 | 26.048 | 0.070 | 1471. | 3.1 | |
| 38 | 38.0 | 5.492 | 33.020 | | 0.10 | 26.049 | 0.074 | 1471. | 2.4 | |
| 40 | 40.0 | 5.497 | 33.021 | | 0.10 | 26.050 | 0.078 | 1471. | 2.1 | |
| 42 | 42.1 | 5.500 | 33.022 | | 0.10 | 26.050 | 0.082 | 1471. | 1.6 | |
| 44 | 43.9 | 5.511 | 33.025 | | 0.10 | 26.051 | 0.086 | 1471. | 1.7 | |
| 46 | 46.1 | 5.522 | 33.031 | | 0.11 | 26.055 | 0.090 | 1471. | 1.8 | |
| 48 | 47.9 | 5.522 | 33.036 | | 0.11 | 26.059 | 0.093 | 1471. | 1.8 | |
| 50 | 50.0 | 5.526 | 33.036 | | 0.11 | 26.059 | 0.097 | 1471. | 1.8 | |
| 52 | 52.2 | 5.553 | 33.045 | | 0.11 | 26.062 | 0.102 | 1471. | 1.7 | |
| 54 | 54.0 | 5.558 | 33.047 | | 0.11 | 26.064 | 0.105 | 1471. | 1.6 | |
| 56 | 56.1 | 5.560 | 33.047 | | 0.11 | 26.063 | 0.109 | 1471. | 1.6 | |
| 57 | 58.0 | 5.572 | 33.052 | | 0.11 | 26.065 | 0.113 | 1472. | 1.6 | |
| 60 | 60.1 | 5.585 | 33.057 | | 0.11 | 26.067 | 0.117 | 1472. | 1.5 | |
| 62 | 62.0 | 5.607 | 33.063 | | 0.11 | 26.070 | 0.121 | 1472. | 1.6 | |
| 63 | 63.9 | 5.622 | 33.066 | | 0.11 | 26.071 | 0.124 | 1472. | 1.7 | |
| 65 | 66.0 | 5.637 | 33.070 | | 0.11 | 26.072 | 0.128 | 1472. | 1.8 | |
| 67 | 67.9 | 5.649 | 33.073 | | 0.11 | 26.073 | 0.132 | 1472. | 1.9 | |
| 70 | 70.1 | 5.667 | 33.079 | | 0.11 | 26.076 | 0.136 | 1472. | 1.9 | |
| 71 | 71.9 | 5.671 | 33.084 | | 0.10 | 26.079 | 0.140 | 1472. | 1.9 | |
| 74 | 74.1 | 5.699 | 33.094 | | 0.10 | 26.083 | 0.144 | 1472. | 1.9 | |
| 75 | 75.9 | 5.711 | 33.099 | | 0.10 | 26.086 | 0.148 | 1472. | 1.8 | |
| 77 | 78.1 | 5.716 | 33.101 | | 0.10 | 26.087 | 0.152 | 1472. | 1.7 | |
| 79 | 79.9 | 5.720 | 33.102 | | 0.10 | 26.087 | 0.155 | 1473. | 1.4 | |
| 81 | 82.1 | 5.745 | 33.107 | | 0.10 | 26.088 | 0.159 | 1473. | 1.2 | |
| 83 | 84.0 | 5.756 | 33.111 | | 0.11 | 26.090 | 0.163 | 1473. | 1.1 | |
| 85 | 86.0 | 5.764 | 33.113 | | 0.11 | 26.091 | 0.167 | 1473. | 1.2 | |
| 87 | 88.0 | 5.766 | 33.114 | | 0.11 | 26.091 | 0.171 | 1473. | 1.2 | |
| 89 | 90.0 | 5.771 | 33.115 | | 0.11 | 26.091 | 0.175 | 1473. | 1.3 | |
| 91 | 92.0 | 5.781 | 33.116 | | 0.11 | 26.091 | 0.179 | 1473. | 1.7 | |
| 93 | 94.0 | 5.816 | 33.126 | | 0.11 | 26.094 | 0.182 | 1473. | 2.0 | |
| 95 | 96.0 | 5.830 | 33.130 | | 0.12 | 26.096 | 0.186 | 1473. | 2.1 | |
| 97 | 98.0 | 5.858 | 33.138 | | 0.12 | 26.099 | 0.190 | 1473. | 2.2 | |
| 99 | 100.0 | 5.859 | 33.149 | | 0.13 | 26.108 | 0.194 | 1473. | 2.3 | |

| SHIP OC | CRUISE 181 | STATION 95 | DATE 15 FEB 1987 | EST 0923 | LATITUDE 43°05.4'N | LONGITUDE 69°58.5'W | DEPTH 157 | | |
|------------|---------------|---------------|---------------------|-------------|------------------------|----------------------------|--|--------------|----------|
| DEPTH m | PRESS dbar | TEMP °C | SALIN psu | OXY ml/l | ATN m ⁻¹ | SIGT gm/cm ³ | DYHT A 10m ² /s ² | S SPD m/s | N cph |
| 101 | 102.1 | 5.870 | 33.153 | 0.13 | 26.110 | 0.198 | 1474. | 2.1 | |
| 103 | 103.9 | 5.900 | 33.161 | 0.14 | 26.112 | 0.201 | 1474. | 2.1 | |
| 105 | 105.9 | 5.904 | 33.162 | 0.14 | 26.113 | 0.205 | 1474. | 1.9 | |
| 107 | 108.0 | 5.925 | 33.169 | 0.14 | 26.116 | 0.209 | 1474. | 1.8 | |
| 109 | 110.0 | 5.934 | 33.171 | 0.15 | 26.116 | 0.213 | 1474. | 1.8 | |
| 111 | 112.0 | 5.970 | 33.182 | 0.16 | 26.120 | 0.217 | 1474. | 1.8 | |
| 113 | 114.1 | 5.985 | 33.187 | 0.17 | 26.122 | 0.221 | 1474. | 1.9 | |
| 115 | 115.9 | 5.986 | 33.191 | 0.17 | 26.125 | 0.224 | 1474. | 2.2 | |
| 117 | 118.2 | 5.965 | 33.189 | 0.19 | 26.126 | 0.228 | 1474. | 2.4 | |
| 119 | 120.2 | 5.959 | 33.189 | 0.19 | 26.127 | 0.232 | 1474. | 2.8 | |
| 121 | 122.3 | 6.009 | 33.204 | 0.17 | 26.133 | 0.236 | 1475. | 3.2 | |
| 123 | 124.2 | 6.073 | 33.230 | 0.17 | 26.145 | 0.240 | 1475. | 3.4 | |
| 125 | 125.8 | 6.091 | 33.237 | 0.19 | 26.148 | 0.243 | 1475. | 3.5 | |
| 127 | 128.0 | 6.147 | 33.266 | 0.21 | 26.164 | 0.247 | 1475. | 3.5 | |
| 129 | 130.1 | 6.179 | 33.285 | 0.23 | 26.175 | 0.251 | 1475. | 3.3 | |
| 131 | 131.8 | 6.180 | 33.285 | 0.23 | 26.175 | 0.254 | 1475. | 2.9 | |
| 133 | 134.1 | 6.199 | 33.297 | 0.23 | 26.182 | 0.258 | 1476. | 2.6 | |
| 135 | 135.9 | 6.202 | 33.298 | 0.26 | 26.183 | 0.261 | 1476. | 2.1 | |
| 137 | 138.0 | 6.202 | 33.301 | 0.24 | 26.185 | 0.265 | 1476. | 1.8 | |
| 139 | 140.1 | 6.202 | 33.303 | 0.30 | 26.187 | 0.269 | 1476. | 1.7 | |
| 140 | 141.2 | 6.201 | 33.305 | 0.23 | 26.188 | 0.271 | 1476. | 1.3 | |
| 141 | 141.9 | 6.201 | 33.303 | 0.34 | 26.187 | 0.272 | 1476. | 1.1 | |
| 142 | 143.0 | 6.201 | 33.304 | 0.26 | 26.188 | 0.274 | 1476. | 1.0 | |
| 143 | 144.2 | 6.201 | 33.304 | 0.26 | 26.188 | 0.277 | 1476. | 1.2 | |
| 144 | 144.9 | 6.202 | 33.302 | 0.32 | 26.186 | 0.278 | 1476. | 1.4 | |
| 145 | 146.0 | 6.202 | 33.304 | 0.33 | 26.187 | 0.280 | 1476. | 1.6 | |
| 146 | 147.1 | 6.199 | 33.308 | 0.28 | 26.191 | 0.282 | 1476. | 1.6 | |
| 147 | 147.9 | 6.199 | 33.308 | 0.30 | 26.191 | 0.283 | 1476. | 1.6 | |
| 148 | 148.9 | 6.197 | 33.310 | 0.29 | 26.193 | 0.285 | 1476. | 1.6 | |
| 149 | 150.0 | 6.198 | 33.309 | 0.31 | 26.192 | 0.287 | 1476. | 1.6 | |
| 150 | 150.9 | 6.198 | 33.309 | 0.28 | 26.192 | 0.289 | 1476. | 1.6 | |

Appendix II

Manufacturers' specifications for instruments used on R/V OCEANUS Cruise 181.
See text for calibration of CTD.

| Instrument | Sensor | Range | Accuracy | Resolution |
|-------------|--------------|--------------|---------------------------|-------------|
| CTD | Conductivity | 1 to 65 mmho | ± 0.005 mmhos | 0.001 mmhos |
| | Temperature | -32 to +32°C | $\pm 0.005^\circ\text{C}$ | 0.0005°C |
| | Pressure | 0-3200 dbar | ± 3.2 dbar | 0.048 dbar |
| | Oxygen | 0-2 jA | ± 2 nA | 0.5 nA |
| | Light | 0-4.50 v | ± 0.1 v | 0.01 v |
| Salinometer | -- | 0-40 ppt | ± 0.003 ppt | 0.0002 ppt |
| Winkler | -- | 0-10 ml/l | ± 0.04 ml/l | 0.2% |

*See text for discussion of temperature and depth accuracy.

Appendix III.- NBIS CTD 9-track tape format

The NBIS CTD tape recorder interface writes two types of records; data records and header records. The records are 512 bytes (8 bits/byte) long. The usual sequence in a CTD cast will be one header record, followed by data records, followed by an End-Of-File.

Data records

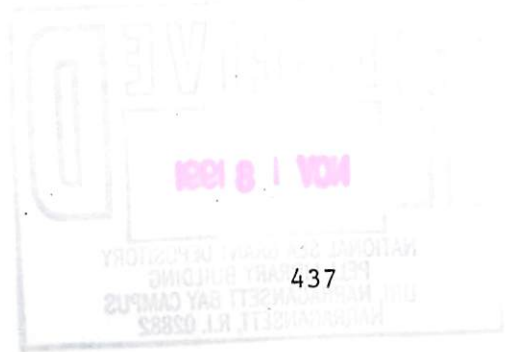
A single scan of CTD data is 13 bytes long, 1 byte of frame sync and 12 bytes of data (table 1). An integer number of data scans is packed into 512 byte data records. For the USGS CTD, a data record contains 39 scans of data, and the remaining 5 bytes in the data record are filled with zeros.

Header records

A scan of header information consists of 8 bytes. The first byte is frame sync, which is either 00 (all "0"s) or FF (all "1"s). The remaining 7 bytes represent 14 BCD digits (4 bits each) which may be set on the CTD front panel. The 8 byte scan of header information is padded with zeros. One header record is written on the 9-T tape when "enter CTD header" data button is pushed.

Appendix Table III-1. - Bit assignments for USGS NBIS CTD

| Byte | Variable | Range | Conversion |
|-------|--------------------|-----------|---|
| 1 | Frame sync | 15 or 240 | |
| 2 | Pressure LSB | 0-65535 | + 20 = P (dbars) |
| 3 | Pressure MSB | | |
| 4 | Temperature LSB | 0-65535 | + 2000 = T (°C) |
| 5 | Temperature MSB | | |
| 6 | Conductivity LSB | 0-65535 | + 1000 C (mmho) |
| 7 | Conductivity MSB | | |
| 8 | Sign | | LSB = pressure negative 2nd = temperature negative 3rd = oxygen temperature negative 4th-8th = zero |
| 9 | Oxygen current | 0-4096 | + 2000 = current (jA) |
| 10 | (12 bits only) | | |
| 11 | Oxygen temperature | 0-255 | x 256 + 2000 T (°C) |
| 12,13 | Transmission | 0-4096 | x 32 ÷ 4096 = TR (volts) |



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