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GEOLOGICAL SURVEY

HYDROGRAPHY OF NEW ENGLAND SHELF AND SLOPE
DATA REPORT FOR R/V OCEANUS CRUISE 122, JULY 6-15, 1982

by

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INTRODUCTION

This report presents hydrographic data obtained on R/V OCEANUS cruise 122, conducted from July 6-15, 1982. The hydrographic measurements (pressure, temperature, salinity, oxygen, and light transmission) were obtained across the continental slope and upper rise south of New England (between longitude 67°30' W., and longitude 68°30'W.) as part of a study of currents and sediment transport in this region.

During the R/V OCEANUS cruise 122, a total of 89 hydrographic profiles were obtained, 67 by means of a conductivity-temperature-depth (CTD) profiler and 22 by means of expendable bathythermographs (XBTs). Stations are numbered sequentially and station information is tabulated in table 1. The stations were arranged into ten sections. Six sections (10-20 km apart) began in a water depth of about 80 m and crossed the upper slope to a depth of about 1500 m (fig. 1). Two sections followed the axis of Lydonia and Oceanographer Canyon, and four sections crossed Lydonia and Oceanographer canyons perpendicular to the canyon axis (fig. 1 and 2).

OBJECTIVES

This survey was designed to provide hydrographic sections in and adjacent to Lydonia, Gilbert, and Oceanographer Canyons during the summer of 1982. The sections were designed to aid in the interpretation of currents, temperature, pressure and light transmission measured by a large moored instrument array (fig. 3) located around Lydonia and Oceanographer Canyons (Butman, 1986; Butman and Conley, 1984).

STATION PROCEDURES

At each XBT station, a water sample for surface salinity (table 2) was obtained using a bucket sampler and an XBT was released while the ship was underway. At each CTD station, the ship was stopped and a surface-water sample was obtained, using a bucket sampler, for analysis of salinity. The CTD was lowered and held slightly below the surface while a 5-liter Niskin bottle was attached 3 m above the top of the CTD unit and 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 bottle was closed by a messenger and a water sample was obtained. The CTD was then raised at approximately 50 m/min and stopped at the surface while CTD readings were recorded in the deck log. The Niskin bottle was removed and one water sample was withdrawn for measurement of deep salinity (table 3) and 1 to 3 samples for measurement of oxygen (table 3). Samples for nutrient analysis

(PO_4 , SiO_4 , NO_3 , NO_2 , and NH_3) were obtained at 59 stations; the analysis (table 4) was performed later at the Woods Hole Oceanographic Institution (WHOI). Approximately 2 liters of sea water were withdrawn for determination of suspended matter concentration. Deep salinity samples were obtained at 22 stations. The oxygen samples obtained at 22 stations were used to calibrate the CTD (see table 3 and instrument calibration section). Suspended-matter concentration was measured at 14 stations by filtering the seawater through preweighed, paired 0.45- μm Millipore filters, rinsing with distilled water to remove salts, 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 5. Meteorological observations obtained during the cruise are listed in tables 6 and 7.

INSTRUMENT DESCRIPTION

The CTD profiler (Neil Brown Instrument Systems, Mark III) was modified to also measure oxygen and light transmission. A scan of data (conductivity, temperature, pressure, oxygen current, oxygen temperature, and light transmission) was obtained 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 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).

Expendable bathythermographs or XBT's (Sippican Ocean Systems, models T-4, T-5, T-6, T-7, and T-10) were used to measure vertical temperature profiles. Systematic differences in XBT (models T-4 and T-7) and CTD profiles have been reported by Heinmiller and others (1983) from field data. They found mean temperature difference (XBT minus CTD) of 0.19°C and 0.13°C for the T-4 and T-7 compared to the generally accepted accuracy of $\sim 0.1^\circ\text{C}$ (Georgi and others, 1980). They also found that the mean T-7 depth error was within the generally accepted depth accuracy of $\pm 2\%$ of the recorded depth (Stegen and others, 1975) but the T-4 XBT's exceeded this below ~ 200 m. The XBT data in this report were not corrected for these possible systematic errors.

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 titrations 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. The Northstar latitude/longitude grid in this region is offset from true latitude/longitude by about

0.92 km toward 294.5° (Butman and Moody, 1984). 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 = CTD sampling time interval = 0.03125 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 5, 1982 at the Woods Hole Oceanographic Institution, and the temperature offset (calibration bath minus CTD) ranged between -0.0081°C at 5° and -0.0099°C 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). The surface salinity of the bucket samples for 65 stations were measured with the Guildline Autosol 8400 after the cruise and the values are listed in table 2 along with the CTD salinity value closest to the surface; the difference between measurements was typically 0.024 psu. Deep salinity values from the Niskin bottle were obtained at 47 stations; 25 had positive difference (bottle salinity-CTD salinity) greater than 0.040 psu which was the standard deviation of the difference for OCEANUS cruise 130 and 140. There was a slight trend for greater differences from deeper samples suggesting that the Niskin bottle may have leaked as it passed upward from low salinity through overlaying higher salinity water. The deep bottle salinities listed in table 3 are for those 22 stations where the difference was less than 0.040 psu. The typical standard deviation of salinity for these 22 stations was ± 0.021 psu and the estimated error in salinity (ΔS) due to the uncertainty in the sample depth was typically 0.015 psu (table 3). A precruise laboratory calibration of conductivity was done on January 5, 1982 at WHOI, and the offset (calibration bath minus CTD) ranged from 0.0058 mmho to 0.0070 mmho, which corresponds to salinity offsets of 0.005 to 0.007 psu. Based on this laboratory calibration no correction was made to the salinities reported here.

Oxygen

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

$$OX = \left(OXB + OCS \left(OC + \tau \frac{dOC}{dt} \right) \right) \cdot OXSAT \cdot e^{tcor \cdot (T + WT(ot - T))} + pcor \cdot p$$

where:

OX	=	CTD dissolved oxygen value in mL/L
T	=	CTD water temperature in °C
p	=	CTD pressure in 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 in time-lag constant in s
t	=	time
tcor	=	temperature correction factor (°C ⁻¹) for membrane permeability
WT	=	weighting 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).

The deep-water samples from 22 CTD casts (where |bottle salinity-CTD salinity| < 0.04) were measured by the Winkler chemical titration method for determining dissolved oxygen (Strickland and Parsons, 1972). In order to increase the number of measured oxygen values for determining the calibration constants, it was assumed that the water was saturated at the surface and the 22 surface saturation values were included with the 22 deep-water oxygen values to give 44 calibration points. Due to the limited calibration values, the correction factors for membrane permeability (tcor and pcor) were fixed at -0.0353 and 1.15×10^{-4} , respectively, based on values determined by R. C. Millard (pers. commun., 1985) at the Woods Hole Oceanographic Institution.

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

The parameters OCS, OXB, and WT were determined by a non-linear regression fit (SAS Institute, Inc., 1982) to the 44 calibration points. The values (\pm standard error) were OCS = 2.91 ± 0.04 , OXB = -0.02 ± 0.03 , and WT = 0.51 ± 0.05 .

The remaining parameter τ was determined by creating plots of down and upcast with different values of τ . The final value of $\tau = 6.00$ s was chosen to minimize the hysteresis in regions of sharp gradients and still retain detailed structure. Table 3 compares the values obtained by chemical

titration and the CTD-computed oxygen values for 22 samples. The surface samples from stations 6, 58 and 64 and the deep samples from stations 6 and 38 were deleted from the non-linear regression fit because they exceeded a minimum error criteria. The mean residual (measured minus computed) for all 22 samples is -0.05 mL/L with a standard deviation of ± 0.17 mL/L. The estimated error in oxygen (ΔO_2) due to the uncertainty in the sample depth was typically 0.06 mL/L for all stations (table 3).

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

$$ATN = - \frac{1}{0.25} \ln \left(\frac{TR}{TR_{cw}} \right)$$

where TR_{cw} is the voltage measured in clear water. TR_{cw} is approximately 0.95 times the measured voltage in air (Bartz and others, 1978) or can be determined in a laboratory tank (see Moody and others, 1986, for method). The transmission sensor (SN 46) was calibrated in the laboratory before and after the cruise and gave a value of TR_{cw} equal to 4.47 volts.

Accuracy

Based on calibrations, the CTD temperature, salinity, and oxygen data are accurate to $\pm 0.01^\circ C$, 0.01 psu and ± 0.2 mL/L, respectively. The changes in the transmission voltage are accurate to ± 0.04 volts so that with a typical output voltage of 4.00 volts the attenuation coefficient are accurate to about $\pm 0.04 m^{-1}$ in clear water. Because there is some uncertainty in the normalization voltage for the transmissometer however, the absolute value of the coefficients could be offset by a constant.

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 upcast and downcast 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 unrealistic 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. The data have been submitted to the National Oceanographic Data Center (NODC), Whitehaven St., NW, Washington, D. C., 20235.

The XBT data were recorded on a strip chart. The traces were digitized approximately every 2 m with a depth accuracy of ± 1 m and a temperature accuracy of $\pm 0.2^\circ\text{C}$. The XBT data were not averaged to 2-dbar intervals due to the irregular number of data points.

DATA PRODUCTS

Vertical sections

The hydrographic data are presented in several ways. Vertical sections are shown in figures 4-13. The sections are numbered as OC122-N, where N is the section number (see fig. 1 and 2 and column 2 of table 1). The station numbers for each section are labeled across the top along with the station type (C = CTD or X = XBT). The surface value of the contoured variable is printed below. The vertical scale (1 cm = 40 m) is the same for all sections. The horizontal scale (1 cm = 1 km) for the sections 2, 3, 8 and 9 across a canyon is not the same as the horizontal scale (1 cm = 6.5 km) for the sections parallel to the canyon axis (1, 4, 5, 6, 7 and 10). The bathymetry for most sections is defined only by the depth at each station; thus the bottom profile is slightly different for sections where there are XBT stations in addition to the CTD stations. Contours were particularly difficult to draw near the walls in the cross-canyon sections where there was often only one station in the center of the axis.

The contour interval for each variable is the same for all sections and every fifth contour is thicker. Because of the contouring algorithms used, these sections do not show much detail at vertical scales less than 10 m and are intended to give an overall picture of the hydrography.

The sections showing temperature, salinity, sigma-t, and oxygen used the 2-dbar-averaged data which were contoured using DISSPLA graphic subroutines (Integrated Software Systems Corp., 1981). These subroutines require data on a regularly spaced grid in both the horizontal and vertical. A regularly spaced vertical grid of $2N-1$ grid lines, where N is the number of stations, was constructed for each hydrographic section. The leftmost and rightmost vertical grid lines were set at the first and last stations in the section. The spacing between the remaining vertical grid lines was determined by computing the sum of the great circle distance, L, between successive stations along the trackline and dividing by $2N-2$. The position of the equally spaced interior, vertical grid lines does not always correspond to a station location. Horizontal grid lines were spaced every 10 m. A grid cell was 10 m high and $L/(2N-2)$ km wide.

Data values at each regularly spaced grid point were computed as a weighted average of the irregularly spaced data within a region of usually five grid cells (1 cell centered on the grid point and 2 cells on either side). The data were weighted by D^{-3} where D is the distance (in grid units) between the location of the data values and the grid point. This smoothing removes some of the fine structure from the sections and may spread some of the frontal features.

The contouring algorithm has no provisions for terminating contours at the sea floor and requires data in a rectangular format. For the sections in this data report, the left and right boundaries are the left and right vertical grid lines, the top boundary was the sea surface, and the bottom boundary was the deepest cast in the section. To speed contouring and to obtain reasonable contours at the sea floor, data were provided below the measurement depth by repeating the data measured at the greatest depth to a distance H into the bottom below the last measured value. Data below the distance H were taken from values observed at an adjacent (deeper) station, shifted upward or downward by a constant so that the values matched at the starting depth. In some cases the values from an adjacent station were inserted below the depth H without adjusting by a constant. The constant distance below H ranged from 0 to 100 m and was adjusted for each station to make the contours meet the sea floor in as reasonable a way as possible. The shape and slope of the contours near the sea floor should be interpreted with care. Contours below the sea floor were deleted in the sections presented here.

The contouring algorithm used a linear interpolation between the adjacent regularly spaced points. The tension parameter, which controls the smoothness vs. straight line connection of points of equal value, was varied over its entire range between 1 and 10 and little difference was noted in the contours due to the high density of data points used to control the contours.

Horizontal sections

Horizontal sections of temperature, salinity, sigma-t, oxygen, and light attenuation were contoured for the 10-, 50-, 100-, and 200- dbars pressure surfaces within the region between Oceanographer and Lydonia Canyon (figs. 14-18) and within the smaller region surrounding Lydonia Canyon (figs. 21-41). Surface salinity values from the bucket sampler have been contoured in fig. 15a. Surface values of phosphate, silicate, nitrate and ammonia were also contoured for the large region (figs. 19-20) and within the smaller region (figs. 42-45). Because of the sparse data, all horizontal sections were contoured by hand.

TS diagrams

Plots of temperature versus salinity (TS plots, figs. 40-52) were organized by section (see column 2 of table 1). The symbol for each station was plotted every 100 dbar and the 100-, 200- and 600-dbar points have been annotated.

Scatter Plots

Plots of attenuation coefficient versus temperature, salinity, sigma-t and oxygen included data between 0 and 100 dbars from all CTD stations were made to illustrate the attenuation maximum around 45 dbars (figs. 66-69).

Station profiles

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

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

(ρ = water density, g = gravity) as a function of pressure at each station are shown in figures 70-157. 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. XBT profiles have been limited to 500 m. The units of salt are practical salinity units (psu) and are defined by Lewis (1980).

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 sigma-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). For pressures greater than 500 dbar, the 2-dbar-averaged data are listed at 20-dbar intervals.

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REFERENCES

- Bartz, R., Zanevald, J. R. V., and Pak, H., 1978, A transmissometer for profiling and moored observations in water: SPIE Ocean Optics V, v. 160, p. 102-108.
- Bendat, J. S., and Piersol, A. G., 1971, Random data: Analysis and measurement procedures: New York, Wiley-Interscience, 407 p.
- Brown, N. L., and Morrison, G. K., 1978, Woods Hole Oceanographic Institution/Brown conductivity, temperature and depth microprofiler: Woods Hole Oceanographic Institution Technical Report 78-23, unpublished manuscript.

- Butman, B., 1986, North Atlantic Slope and Canyon Study, Final Report to U.S. Minerals Management Service: unpublished administrative report, vol. II, chapter 2.
- Butman, B. and Conley, S. J., 1984, Lydonia Canyon Experiment: Data report for moored array deployment I, October 1980 - April 1981, U.S. Geological Survey Open-File Report 84-201, 223 p.
- Butman, B., and Moody, J. A., 1984, Bathymetric map of Lydonia Canyon, U.S. Atlantic Outer Continental Shelf: U.S. Geological Survey Miscellaneous Field Studies Map MF-1710.
- Fofonoff, N. P., Hayes, S. P., and Millard, R. C., Jr., 1974, Woods Hole Oceanographic Institution/Brown microprofiler: Methods of calibration and data handling: Woods Hole Oceanographic Institution Technical Report No. 74-89, unpublished manuscript.
- Fofonoff, N. P., and Millard, R. C., Jr., 1983, Algorithms for computation of fundamental properties of sea water: Paris, UNESCO Technical Papers in Marine Science, no. 44.
- Georgi, D. T., Dean, J. P., and Chase, J. A., 1980, Temperature calibration of expendable bathythermographs: Ocean Engineering, v. 7, p. 491-499.
- Heinmiller, R. H., Ebbesmeyer, A. C., Taft, B. A., Olsen, D. B., and Nikitin, O. P., 1983, Systematic errors in expendable bathythermograph (XBT) profiles: Deep-Sea Research, v. 30, no. 11A, p. 1185-1197.
- Integrated Software Systems Corporation, 1981, DISSPLA, Display integrated software system and plotting language users manual, version 9.0: San Diego, Calif., Integrated Software Systems.
- Lewis, E. L., 1980, The practical salinity scale 1978 and its antecedents: IEEE Journal of Ocean Engineering, v. OE-5, no. 1, p. 3-8
- Millard, R. C., Jr., 1982, CTD calibration and data processing techniques at WHOI using the 1978 practical salinity scale: Proceedings of the International STD Conference and Workshop, La Jolla, Calif., 8-11 February 1982, Marine Technology.
- Millero, F. J., Chen, C.-T., Bradshaw, A., and Schleider, K., 1980, A new high-pressure equation of state for seawater: Deep-Sea Research, v. 27A, p. 255-264.
- Moody, J. A., Butman, B., and Bothner, M. H., 1987, Estimates of near-bottom suspended matter concentration during storms: Continental Shelf Research. (In press).
- Owens, W. Brechner, and Millard, Robert C., Jr., 1985, A new algorithm for CTD oxygen calibration: Journal of Physical Oceanography, v. 15, no. 5, p. 621-631.
- SAS Institute, Inc., 1982, SAS user's guide: Statistics: North Carolina, 584 p.
- Stegen, G. R., Delisi, D. P., and Von Collie, R. C., 1975, A portable, digital recording, expendable bathythermograph (XBT) system: Deep-Sea Research, v. 22, p. 447-453.
- Strickland, J. D. H., and Parson, T. R., 1972, A practical handbook of sea water analysis: Fisheries Research Board of Canada, Ottawa, 310 p.
- Weiss, R. F., 1970, The solubility of nitrogen, oxygen and argon in water and sea water: Deep-Sea Research, v. 17, p. 721-735.

Table 1. Hydrographic stations R/V OCEANUS Cruise 122, July 6-14, 1982.
Station letters following the station indicate a mooring location
(see fig. 3).

Station	Section	Date (EST)	Time	Latitude (N.)	Longitude (W.)	Water Depth (m)	Type
1		JUL 6	1932	40° 40.13'	70° 00.33'	50	CTD
2		JUL 7	0554	40° 33.84'	67° 44.99'	100	CTD
3	LCQ	JUL 7	1146	40° 27.28'	67° 38.04'	155	CTD
4	LCB	JUL 7	1745	40° 31.51'	67° 42.82'	287	CTD
5	LCU	JUL 11	1620	40° 32.19'	67° 44.24'	155	CTD
6	1	JUL 12	1020	40° 40.45'	67° 40.50'	89	CTD
7	1	JUL 12	1115	40° 36.68'	67° 38.73'	85	CTD
8	LCL 1	JUL 12	1205	40° 32.52'	67° 36.64'	123	CTD
9	1	JUL 12	1254	40° 27.82'	67° 34.99'	138	CTD
10	LCL 1	JUL 12	1344	40° 23.12'	67° 32.89'	235	CTD
11	1	JUL 12	1430	40° 20.06'	67° 31.72'	730	XBT
12	1	JUL 12	1512	40° 16.62'	67° 30.43'	1280	CTD
13		JUL 12	1534	40° 16.35'	67° 30.01'	1220	XBT
14	4	JUL 12	1625	40° 17.49'	67° 39.08'	1205	CTD
15	4	JUL 12	1732	40° 20.90'	67° 39.54'	675	XBT
16	4	JUL 12	1802	40° 24.06'	67° 39.71'	635	CTD
17	2	JUL 12	1903	40° 25.84'	67° 43.00'	139	CTD
18	2	JUL 12	1930	40° 26.36'	67° 41.41'	140	CTD
19	LCT 2	JUL 12	1953	40° 26.53'	67° 40.70'	185	CTD
20		JUL 12	2001	40° 26.97'	67° 40.52'	210	CTD
21	2	JUL 12	2013	40° 26.59'	67° 40.31'	255	CTD
22	4, 2	JUL 12	2027	40° 26.58'	67° 40.06'	531c	CTD
23	LCR 2	JUL 12	2121	40° 26.59'	67° 39.18'	350	CTD
24	2	JUL 12	2155	40° 26.52'	67° 38.29'	175	CTD
25	2	JUL 12	2216	40° 26.53'	67° 36.94'	149	CTD
26	4	JUL 12	2306	40° 29.01'	67° 44.07'	395	CTD
27	3	JUL 12	2353	40° 30.36'	67° 44.88'	127	CTD
28	3	JUL 13	0018	40° 30.94'	67° 43.72'	130	CTD
29	3	JUL 13	0038	40° 31.18'	67° 43.18'	167	CTD
30	4, 3	JUL 13	0102	40° 31.39'	67° 42.85'	~315	CTD
31	3	JUL 13	0135	40° 31.65'	67° 42.34'	145	CTD
32	3	JUL 13	0154	40° 31.89'	67° 41.81'	129	CTD
33	3	JUL 13	0214	40° 32.57'	67° 40.91'	125	CTD
34	4	JUL 13	0244	40° 31.77'	67° 43.30'	217	CTD
35	4	JUL 13	0300	40° 31.65'	67° 43.13'	265	CTD
36	4	JUL 13	0352	40° 32.10'	67° 44.22'	167	CTD
37	4	JUL 13	0420	40° 33.13'	67° 44.43'	120	XBT
38	4	JUL 13	0437	40° 33.56'	67° 44.47'	108a	CTD
39	4	JUL 13	0502	40° 35.02'	67° 44.60'	95	XBT
40	4	JUL 13	0557	40° 39.41'	67° 45.66'	78	CTD

Table 1. continued. Hydrographic stations R/V OCEANUS Cruise 122, July 6-14, 1982. Station letters following the station indicate a mooring location (see fig. 3).

Station	Section	Date (EST)	Time	Latitude (N.)	Longitude (W.)	Water Depth (m)	Type
41	5	JUL 13	0834	40° 39.97'	67° 51.01'	95	CTD
42	5	JUL 13	1042	40° 29.46'	67° 48.99'	113c	CTD
43	5	JUL 13	1124	40° 25.59'	67° 47.31'	150c	CTD
44	5	JUL 13	1153	40° 23.05'	67° 46.45'	155a	XBT
45	5	JUL 13	1210	40° 21.34'	67° 45.71'	193c	CTD
46	5	JUL 13	1244	40° 18.01'	67° 44.22'	770	XBT
47	5	JUL 13	1304	40° 15.14'	67° 42.97'	1345	CTD
48		JUL 13	1341	40° 15.14'	67° 42.54'	1345b	XBT
49	6	JUL 13	1513	40° 14.30'	67° 57.60'	800	CTD
50	6	JUL 13	1552	40° 14.30'	67° 57.60'	800b	XBT
51	6	JUL 13	1653	40° 16.43'	67° 59.52'	330	XBT
52	6	JUL 13	1736	40° 18.96'	67° 59.53'	192	CTD
53	6	JUL 13	1825	40° 21.36'	67° 59.34'	145	XBT
54	6	JUL 13	1851	40° 24.18'	68° 00.27'	143	CTD
55	6	JUL 13	1941	40° 29.53'	68° 00.48'	121	CTD
56	6	JUL 13	2051	40° 35.02'	68° 00.57'	93	CTD
57	6	JUL 14	0350	40° 39.94'	68° 00.68'	85	CTD
58	7	JUL 14	0530	40° 37.30'	68° 17.53'	83	CTD
59	7	JUL 14	0600	40° 34.12'	68° 16.21'	95c	XBT
60 OCA	7	JUL 14	0620	40° 30.73'	68° 14.85'	101c	CTD
61	8	JUL 14	0657	40° 30.28'	68° 11.08'	119	XBT
62	8	JUL 14	0707	40° 30.02'	68° 11.08'	130	CTD
63	8	JUL 14	0725	40° 29.50'	68° 11.05'	175a	XBT
64 OCB	7,8	JUL 14	0728	40° 29.44'	68° 11.10'	201c	CTD
65	8	JUL 14	0750	40° 28.97'	68° 11.05'	158	CTD
66	8	JUL 14	0811	40° 27.93'	68° 11.10'	125	CTD
67	8	JUL 14	0850	40° 30.99'	68° 11.11'	110	CTD
68	7	JUL 14	0916	40° 28.28'	68° 09.04'	380	CTD
69		JUL 14	0941	40° 26.93'	68° 09.92'	138	XBT
70	9	JUL 14	0954	40° 24.93'	68° 11.02'	140	CTD
71	9	JUL 14	1014	40° 24.96'	68° 10.06'	150	CTD
72	9	JUL 14	1033	40° 24.99'	68° 09.02'	235a	CTD
73	9	JUL 14	1050	40° 24.98'	68° 08.18'	420	XBT
74 OCC	7,9	JUL 14	1054	40° 24.99'	68° 07.84'	520	CTD
75	9	JUL 14	1125	40° 25.00'	68° 07.36'	455	XBT
76	9	JUL 14	1131	40° 25.01'	68° 07.04'	285	CTD
77	9	JUL 14	1206	40° 25.04'	68° 05.97'	148	CTD
78	9	JUL 14	1230	40° 25.00'	68° 04.95'	146	CTD
79	7	JUL 14	1311	40° 20.74'	68° 08.06'	691a	XBT
80	7	JUL 14	1350	40° 15.02'	68° 07.10'	1020	CTD
81		JUL 14	1427	40° 15.12'	68° 07.43'	955	XBT

Table 1. continued. Hydrographic stations R/V OCEANUS Cruise 122, July 6-14, 1982. Station letters following the station indicate a mooring location (see fig. 3).

Station	Section	Date (EST)	Time	Latitude (N.)	Longitude (W.)	Water Depth (m)	Type
82	10	JUL 14	1500	40° 13.10'	68° 14.23'	575	CTD
83	10	JUL 14	1609	40° 15.99'	68° 17.07'	255a	XBT
84	10	JUL 14	1637	40° 17.21'	68° 17.57'	175	CTD
85	10	JUL 14	1723	40° 19.34'	68° 19.34'	142	XBT
86	10	JUL 14	1750	40° 22.10'	68° 20.78'	117	CTD
87	10	JUL 14	1832	40° 25.50'	68° 23.35'	103	XBT
88	10	JUL 14	1909	40° 28.69'	68° 25.58'	92	CTD
89	10	JUL 14	2008	40° 33.43'	68° 28.58'	80	CTD

a--estimated from XBT trace

b--same location as CTD

c--1 m greater than maximum pressure of CTD cast.

Table 2. Surface salinities for R/V OCEANUS Cruise 122, July 6-15, 1982.

SALINITY					SALINITY				
Stat.	CTD Depth (dbar)	CTD (psu)	Bottle (o/oo)	Diff.	Stat.	CTD Depth (dbar)	CTD (psu)	Bottle (o/oo)	Diff.
2	2	34.100	34.281	0.181	43	2	35.221	35.238	0.017
3	3	35.443	35.479	0.036	44	XBT	-	35.146	-
4 LCB	4	35.471	35.493	0.022	45	2	35.108	35.125	0.017
5 LCB	3	35.279	35.337	0.058	46	XBT	-	35.033	-
6	4	34.127	34.161	0.034	47	2	34.901	35.097	0.196
7	3	33.896	33.972	0.076	49	2	35.421	35.027	-0.394
8	2	34.943	35.014	0.071	50	XBT	-	35.423	-
9	2	35.355	35.399	0.044	51	XBT	-	35.344	-
10 LCI	2	35.221	35.250	0.029	52	2	35.183	35.202	0.019
11	XBT	-	35.363	-	53	XBT	-	34.926	-
12	2	34.965	34.991	0.026	54	2	34.779	34.717	-0.062
14	2	34.814	35.158	0.344	55	3	34.622	34.629	0.007
15	XBT	-	34.962	-	56	3	35.063	35.094	0.031
16	1	35.079	35.090	0.011	57	2	34.325	34.284	-0.041
18	1	35.178	35.273	0.095	58	2	33.652	33.438	-0.214
19	1	35.175	35.194	0.019	59	XBT	-	33.835	-
21	1	35.169	35.181	0.012	60	2	35.089	34.304	-0.785
22	1	35.150	35.182	0.032	62	3	35.138	35.167	0.029
23	1	35.148	35.165	0.017	64	1	35.098	35.104	0.006
24	1	35.179	35.188	0.009	65	1	35.002	35.019	0.017
26	2	35.379	35.362	-0.017	66	2	34.759	35.183	-0.424
27	1	35.277	35.299	0.022	67	2	35.052	35.072	0.020
29	1	35.277	35.289	0.011	68	3	34.757	34.797	0.040
31	1	35.270	35.280	0.010	70	1	34.988	34.995	0.007
32	1	35.263	35.277	0.014	74	2	34.718	34.816	0.098
33	1	35.212	35.240	0.028	78	1	35.034	35.045	0.010
34	1	35.269	35.289	0.020	79	XBT	-	35.243	-
36 LCU	2	35.289	35.293	0.004	80	2	35.307	35.332	0.025
37	XBT	-	35.316	-	86	2	35.061	35.099	0.035
38	2	35.306	35.337	0.031	87	XBT	-	35.063	-
39	XBT	-	35.293	-	88	2	34.881	35.036*	0.154
41	2	35.282	35.337	0.055	89	2	34.238	34.108	-0.130
42	2	35.258	35.269	0.011					

*Average of two samples

Table 3. Salinity and oxygen calibration data for R/V OCEANUS Cruise 122, July 6-15, 1982.

Stat.*	Bottle Sample	Salinity				Oxygen			
	depth (dbar)	Bottle (o/oo)	CTD (psu)	Diff.	ΔS^+	Bottle \pm S.D. (ml/L)	CTD (ml/L)	Diff. (ml/L)	ΔO_2^+
6	76	34.466	34.467	-0.001	0.011	5.47 \pm 0.12	5.18	0.29	0.04
9	133	35.387	35.363	0.024	0.008	4.11	4.44	-0.33	0.02
24	154	35.524	35.507	0.017	0.002	4.35	4.34	0.01	0.02
27	120	35.422	35.401	0.021	0.033	4.18	4.54	-0.34	0.04
29	161	35.461	35.481	-0.020	0.002	4.34	4.09	0.25	0.12
31	139	35.453	35.464	-0.011	0.001	4.40 \pm 0.01	4.14	0.26	0.02
33	118	35.352	35.357	-0.009	0.011	4.15	4.41	-0.26	0.00
40	75	34.517	34.505	0.012	0.000	5.40	5.38	0.02	0.03
43	146	35.482	35.459	0.023	0.017	4.10	4.11	-0.01	0.09
45	189	35.480	35.451	0.029	0.005	4.10	4.05	0.05	0.06
49	740	34.987	34.953	0.034	0.000	5.72	5.70	0.02	0.02
52	188	35.499	35.472	0.027	0.033	3.78	3.89	-0.11	0.03
55	112	35.417	35.398	0.019	0.004	4.45 \pm 0.02	4.50	-0.05	0.07
56	85	34.772	34.811	-0.039	0.058	4.96	5.02	-0.06	0.20
58	78	34.282	34.268	0.014	0.002	5.34	5.42	-0.08	0.00
60	97	35.183	35.170	0.013	0.071	4.61	4.70	-0.09	0.05
62	119	35.337	35.319	0.018	0.008	4.37	4.49	-0.12	0.06
64	197	35.410	35.438	-0.028	0.009	4.07	4.22	-0.15	0.01
65	148	35.470	35.468	0.002	0.008	3.95	4.04	-0.09	0.08
67	104	35.059	35.088	-0.029	0.037	4.69	4.79	-0.10	0.04
70	134	35.434	35.427	0.007	0.006	4.07	4.25	-0.18	0.08
78	140	35.516	35.483	0.033	0.001	3.89	3.98	-0.09	0.17
mean				0.007	0.015			-0.05	0.06
\pm SD				0.021				\pm 0.17	

+ Change in salinity (ΔS) or oxygen (ΔO_2) between 2 dbar above and below the sampling depth

* Station where | bottle salinity - CTD salinity | < 0.04

Table 4. Nutrient* data for R/V OCEANUS Cruise 122, July 6-15, 1982.

Station	Sample depth (dbar)	PO ₄ (μg at/l)	SiO ₄ (μg at/l)	NO ₃ ^b (μg at/l)	NO ₂ (μg at/l)	NH ₃ (μg at/l)
2	0	0.19	0.57	0.12	0.04 ^a	0.18
3	0	0.08	0.43	0.12	0.00	0.17
6	0	0.40	1.08	0.31	0.01	9.73
	76	0.38	4.37	3.08	0.23	0.73
7	0	0.24	0.48	0.28	0.00	0.53
8	0	0.13	0.47	0.06	0.03	0.30
9	0	0.13	0.72	0.18	0.09 ^a	0.31
	133	0.49	4.61	8.42 ^a	0.00	0.11
10	0	0.07	1.17	0.17	0.02	1.09
12	0	0.06	1.10	0.10	0.03	0.73
14	0	0.08	1.09	0.14	0.03	0.30
16	0	0.08	1.11	0.13	0.03	1.09
17	0	0.08	1.14	0.16	0.02	0.44
18	0	0.06	1.00	0.11	0.01	0.14
	133	0.49	4.28	8.31	0.00	0.27
19	0	0.05	1.12	0.11	0.00	0.14
21	0	0.05	1.17	0.11	0.00	3.14
22	0	0.06	1.36	0.13	0.00	0.24
23	0	0.05	1.19	0.10	0.00	0.30
24	0	0.02	0.95	0.10	0.00	0.53
	154	0.67	5.91	12.88	0.00	3.08
25	0	0.03	1.20	0.14	0.00	0.34
26	0	0.05	0.93	0.16	0.00	0.73
27	0	0.03	0.92	0.12	0.00	0.62
	120	0.63	5.63	11.43	0.00	1.02
28	0	0.01	5.61	0.11	0.00	0.86
29	0	0.01	0.80	0.14	0.00	1.42
	162	0.74	7.21	14.27	0.00	0.42
30	0	0.06	0.89	0.28	0.00	2.31
32	0	0.02	1.21	0.10	0.00	4.57
33	0	0.04	0.54	0.08	0.00	-
	118	0.62	5.83	10.12	0.02	1.69
34	0	0.04	0.73	0.11	0.00	5.61
36	0	0.04	0.85	0.12	0.00	0.71
38	0	0.04	0.71	0.15	0.01	0.15
	97	0.61	6.83	9.53	0.07	1.81
40	0	0.03	0.70	0.10	0.00	4.94
	75	0.45	5.05	5.67	0.60	0.33

Table 4. continued. Nutrient* data for R/V OCEANUS Cruise 122, July 6-15, 1982.

Station	Sample depth (dbar)	PO ₄ (μg at/l)	SiO ₄ (μg at/l)	NO ₃ ^b (μg at/l)	NO ₂ (μg at/l)	NH ₃ (μg at/l)
41	0	0.04	0.79	0.21	0.00	1.03
42	0	0.04	0.95	0.14	0.00	0.57
43	0	0.02	0.81	0.09	0.00	0.84
	146	0.77	8.22	16.44	0.03	2.47
45	0	0.02	1.13	0.11	0.00	3.11
	189	0.70	6.05	12.31	0.06	2.65
47	0	0.01	1.12	0.13	0.00	0.32
49 ^d	0	0.06	0.61	0.17	0.00	3.80
	715 ^c	1.04	11.63	18.66	0.00	1.02
50 ^d	0	0.60	0.77	0.16	0.00	3.01
51	0	0.12	0.76	0.13	0.00	1.53
52	0	0.76	1.08	0.21	0.00	-
	188	0.76	6.86	14.03	0.00	0.16
54	0	0.16	0.68	0.14	0.00	8.33
55	0	0.06	0.40	0.11	0.00	1.70
	112	0.49	4.39	7.72	0.01	3.13
56	0	0.06	0.49	0.15	0.00	7.06
57	0	0.07	0.62	0.13	0.00	1.08
58	0	0.08	0.44	0.14	0.00	0.97
	79	0.46	5.05	2.68 [*]	0.56	0.18
60	0	0.04	0.30	0.10	0.00	0.04
	97	0.65	6.37	9.53 ^a	0.05	0.65
62	0	0.02	0.55	0.10	0.00	1.51
	119	0.61	4.42	7.64 ^a	0.00	0.29
64	0	0.00	0.64	0.12	0.00	1.12
	197	0.80	6.40	12.41 ^a	0.01	3.75
65	0	0.02	0.67	0.15	0.00	1.02
	148	0.79	5.96	12.13	0.00	0.55
66	0	0.04	0.66	0.19	0.00	1.62
67	0	0.07	0.52	0.21	0.00	0.40
	104	0.71	6.49	9.02 ^a	0.06	0.44
68	0	0.09	0.44	0.10	0.00	5.76
70	0	0.14	1.03	0.10	0.00	1.09
	134	0.84	8.10	15.93	0.05	2.85
74	0	0.75	0.55	0.12	0.04	0.64
78	0	2.22	0.74	0.13	0.00	0.36
	140	1.05	7.80	16.57	0.03	0.76

Table 4. continued. Nutrient* data for R/V OCEANUS Cruise 122, July 6-15, 1982.

Station	Sample depth (dbar)	PO ₄ (μg at/l)	SiO ₄ (μg at/l)	NO ₃ ^b (μg at/l)	NO ₂ (μg at/l)	NH ₃ (μg at/l)
80	0	3.93	0.67	0.16	0.00	1.04
86	0	0.90	0.59	0.13	0.00	0.29
87	0	0.61	0.48	0.16	0.00	0.00
88	0	0.42	0.44	0.15	0.13	1.52
89	0	0.26	0.43	0.14	0.00	0.25

* - All surface samples are included in this table plus the deep samples from stations

where $| \text{bottle salinity} - \text{CTD salinity} | < 0.04$

a - average of two values.

b - analyzed as NO₃ + NO₂-N. The NO₂-N value has been subtracted.

c - large wire angle

d - same stations

Table 5. Suspended matter concentration for water samples obtained on R/V OCEANUS Cruise 122, July 6-15, 1982.

Station*	Water depth (m)	Sample depth (dbar)	Suspended matter (mg/L)	Light attenuation (m^{-1})
6	78	76	0.47	0.25
9	138	133	0.19	0.12
24	175	154	0.08	0.10
27	127	120	0.22	0.13
33	125	118	0.20	0.14
40	78	75	0.33	0.20
49	800	740	0.11	0.28
52	192	112	0.07	0.09
56	93	85	0.34	0.19
60	99	97	0.29	0.19
62	130	119	0.21	0.16
64	~200	197	0.19	0.17
67	110	104	0.27	0.18
70	140	134	0.15	0.14

*Stations where | bottle salinity - CTD salinity | < 0.04

Table 6. Meteorological observations for R/V OCEANUS Cruise 122 obtained from ship's deck log. July 6-15, 1982.

Date	Time Est	Wind		Sea			Air		Weather
		Dir	Force	Dir	Swell	Height	Pressure (mb)	Temp (°c)	
July 6	1100	--	--	SW	1	2	1030	20.6	bc
	1500	SSW	4	SW	1	2	1030	18.9	c
	1900	W	3-4	W	1	2	1030	18.3	bc
	2300	S	2	--	--	2	1029	13.9	b
July 7	0300	SW	--	--	--	1	1028	17.8	bc
	0700	SW	2	SSW	1	2	1029	18.3	bcz
	1100	SWxW	4	SW	1	2	1027	23.3	bc
	1500	SW	5	SW	1	2	1027	23.3	bc
	1900	SSW	5	SxE	1	2-3	1025	22.2	bc
	2300	SSW	3	S	1	3	1024	21.1	
July 8	0300	SSW	5	SW	1	2	1023	21.1	c
	0700	S	4	S	1	2	1022	21.1	cz
	1100	SWxW	3	S	1	3	1021	24.4	cz
	1500	SW	5	S	1	3	1021	24.4	cz
	1900	S	4	S	1	2-3	1020	22.2	cz
	2300	SW	4	SSW	1	3	1020	22.2	b
July 9	0300	SW	5	SSW	1	3	1020	21.7	c
	0700	SSW	6	SSW	1	3	1020	20.6	cz
	1100	SSW	3	SSW	1	3	1020	21.1	cf
	1500	SW	4	SSW	1	2-3	1019	20.6	ozl
	1900	SW	3	SSW	1	2	1019	20.0	bcz
	2300	AIRS	--	--	--	--	1020	19.4	bcz
July 10	0300	--	0	--	-	-	1020	19.4	cz
	0700	SW	2	SE	1	1	1020	18.3	of
	1100	AIRS	--	--	--	1	1021	22.8	bz
	1500	W	3	S	1	1	1021	24.4	c
	1900	AIRS	--	--	--	1	1022	19.4	b
July 11	0300	NE	3	--	--	1	1022	19.4	bc
	0700	NNE	2-3	--	--	1	1024	20.6	bc
	1100	NE	2	--	--	2	1024	20.0	f
	1500	E	4	--	--	2	1023	18.9	f
	1900	ENE	3	--	--	1-2	1023	21.1	bcz
	2300	E	2	--	--	1	1023	21.1	bcz
July 12	0300	ESE	3	--	--	1	1022	23.3	bz
	0700	SxW	3	--	--	1	1023	21.1	bz
	1100	AIRS	--	--	--	1	1021	--	c
	1500	S	4	SSW	1	2	1021	--	bcf
	1900	SSW	4	SSW	1	2	1021	--	bcf
	2300	SW	4	SSW	1	2	1022	23.9	oz

Table 6. Meteorological observations for R/V OCEANUS Cruise 122 obtained from ship's deck log. July 6-15, 1982 - Continued

Date	Time Est	Wind		Sea			Air		Weather
		Dir	Force	Dir	Swell	Height	Pressure (mb)	Temp (°c)	
July 13	0300	WSW	4	SW	1	2	1021	22.2	fl
	0700	SW	3	SW	1	2	1022	22.8	f
	1100	SW	3-4	SW	1	3	1022	22.8	oz
	1500	SW	4	SW	1	3	1023	--	oz
	1900	AIRS	--	SSW	1	1-2	1023	22.8	of
	2300	AIRS	--	--	--	1	1024	21.1	of
July 14	0300	NW	3	--	--	1	1024	16.7	f
	0700	NW	3	SSW	1	2	1025	21.1	bcz
	1100	NxE	1-2	--	--	1	1026	23.3	o
	1500	N	2	--	--	1	1027	24.4	bc
	1900	ExN	3	--	--	2	1027	20.0	bc
	2300	AIRS	--	--	--	2	1027		20.0bc
July 15	0300	--	0	SW	1	0-1	1026	18.3	b

Table 7. 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	1-3
d	drizzle	2	4-6	4-7
f	fog	3	7-10	8-12
h	hail	4	11-16	13-18
l	lightening	5	17-21	19-24
o	overcast	6	22-27	25-31
c	mostly cloudy	7	28-33	32-38
p	passing rain showers	8	34-40	39-46
q	squalls	9	41-47	47-54
r	rain	10	48-55	55-63
s	snow	11	36-63	64-72
t	thunder	12	64-71	73-82
z	haze			

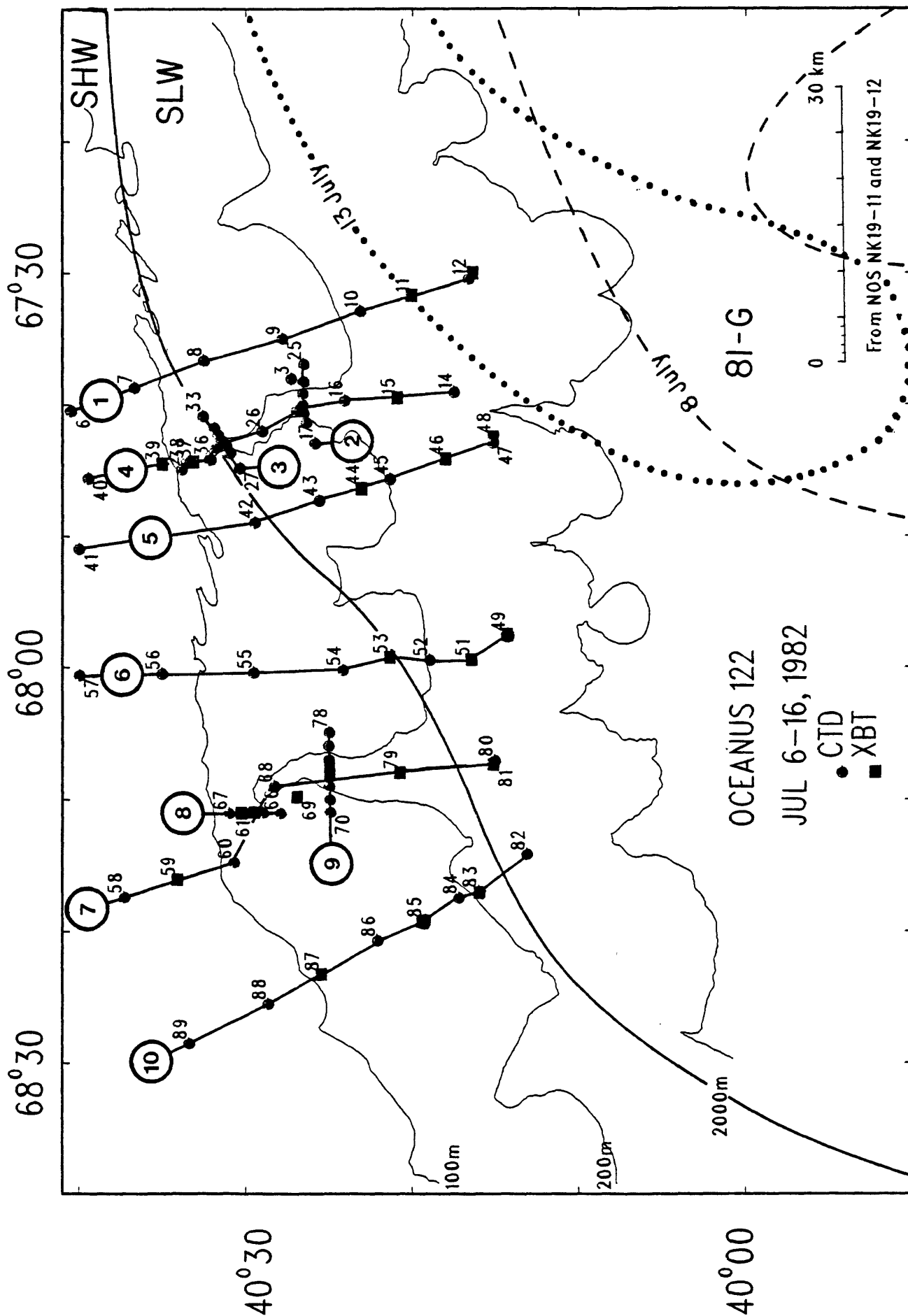


Figure 1. Location of stations near Lydonia and Oceanographer Canyons. The circled numbers identify the sections shown in figures 4-13. The position of a warm core eddy 81-G is based on the Oceanographic Analysis chart for July 3 (dashed line) and July 13 (dotted line). The area of slope water is based on the chart for 13 July 1982 as modified by the Atlantic Environmental Group, National Marine Fisheries Service, Narragansett, R.I.

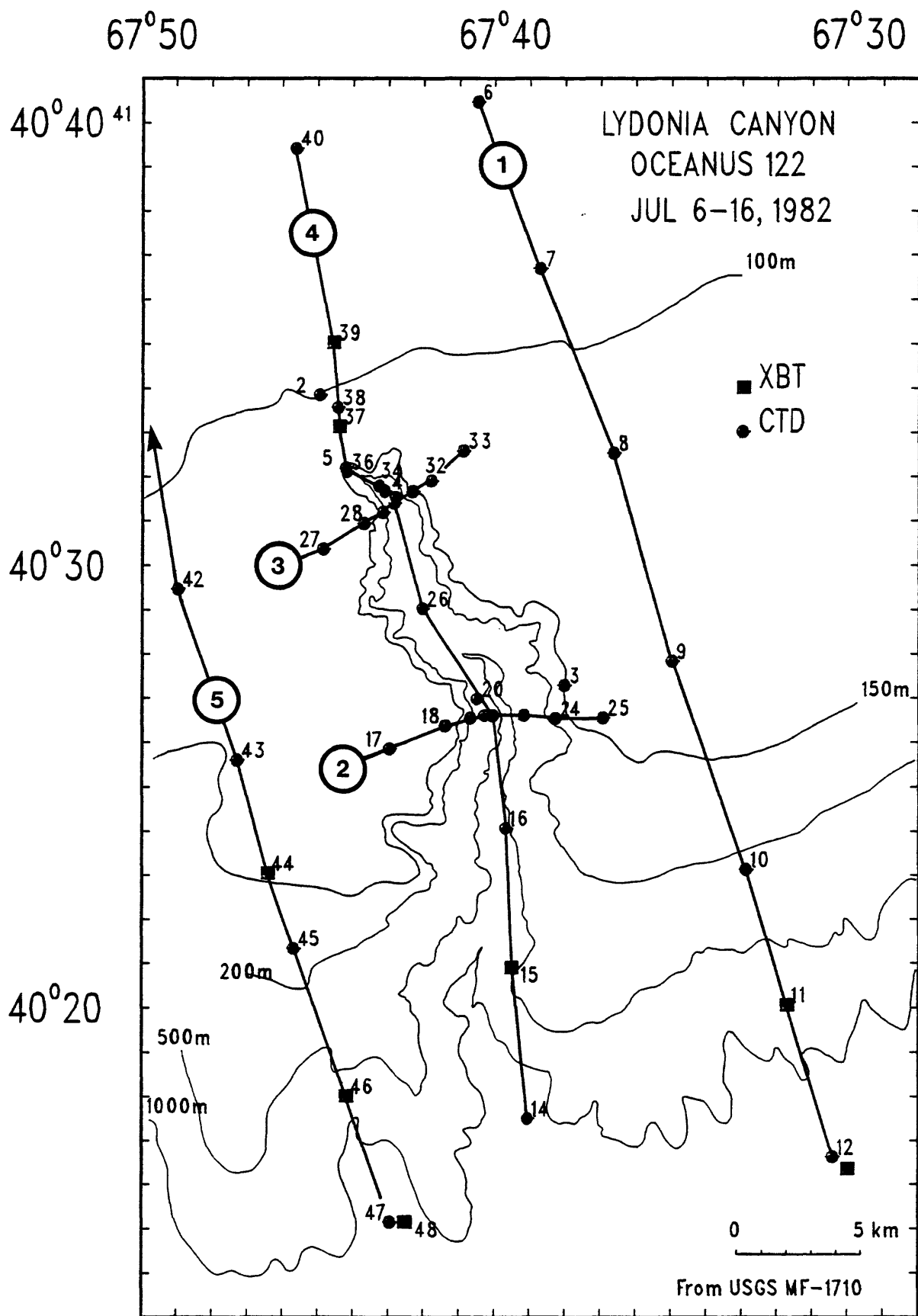


Figure 2. Location of stations around Lydonia Canyon occupied on R/V OCEANUS Cruise 122, 6-15 July 1982. The circled numbers identify the sections shown in figures 4-13.

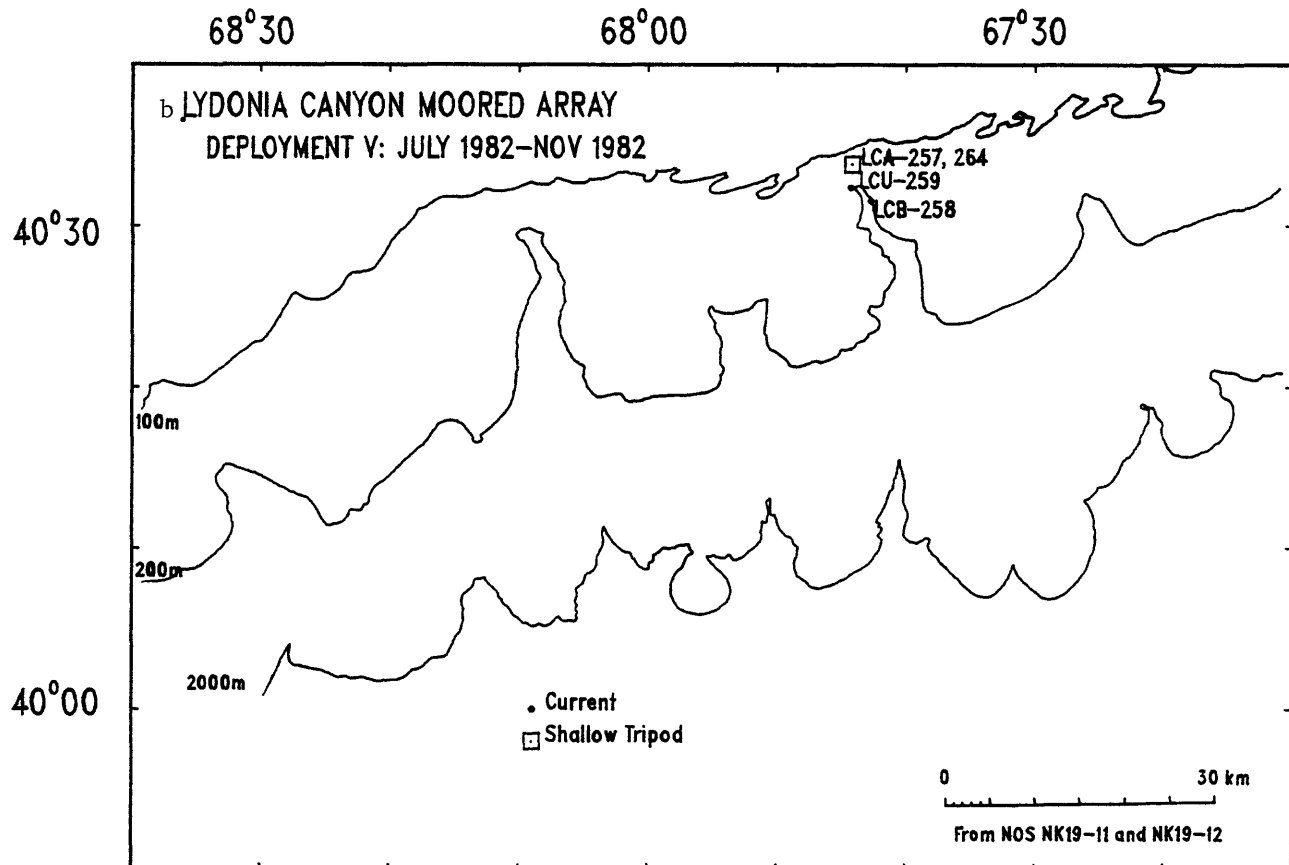
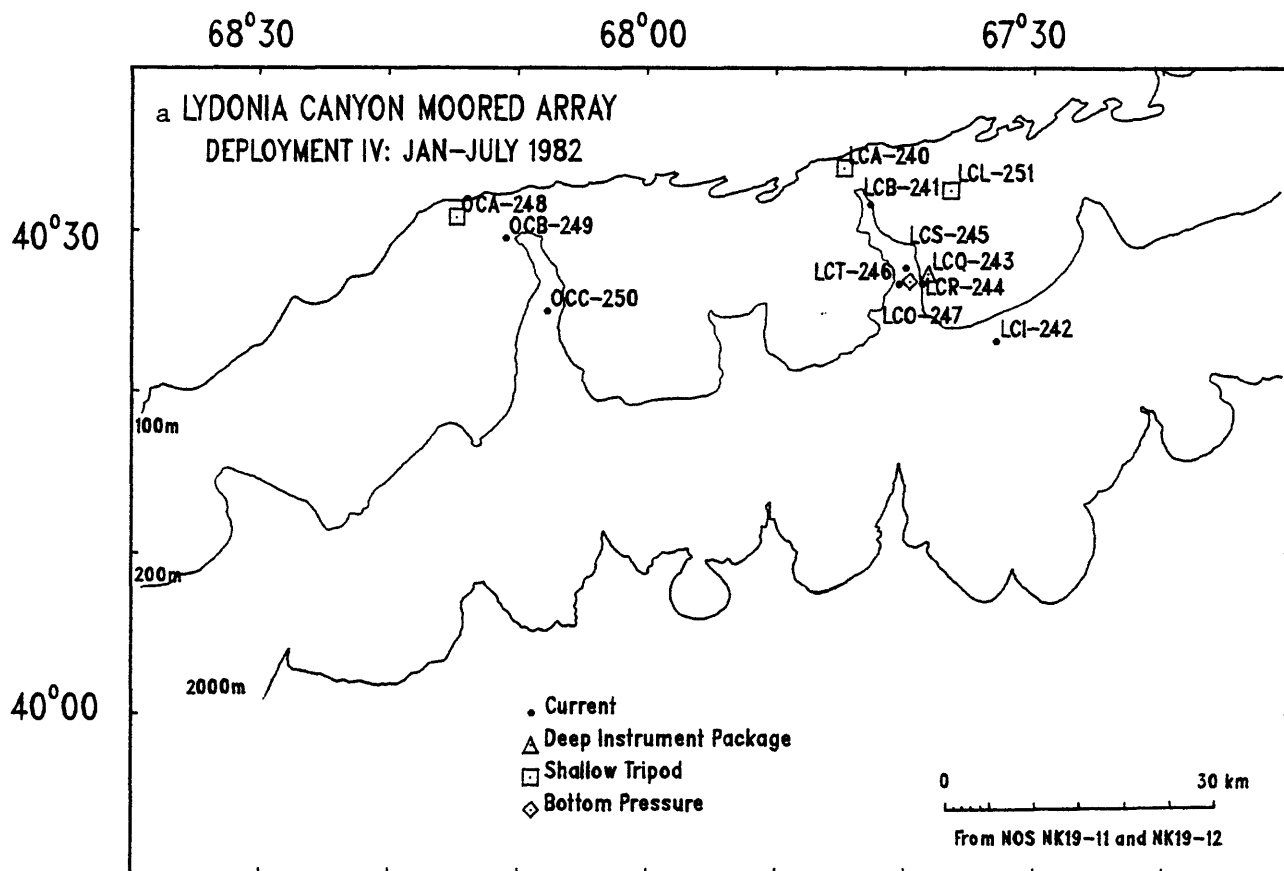
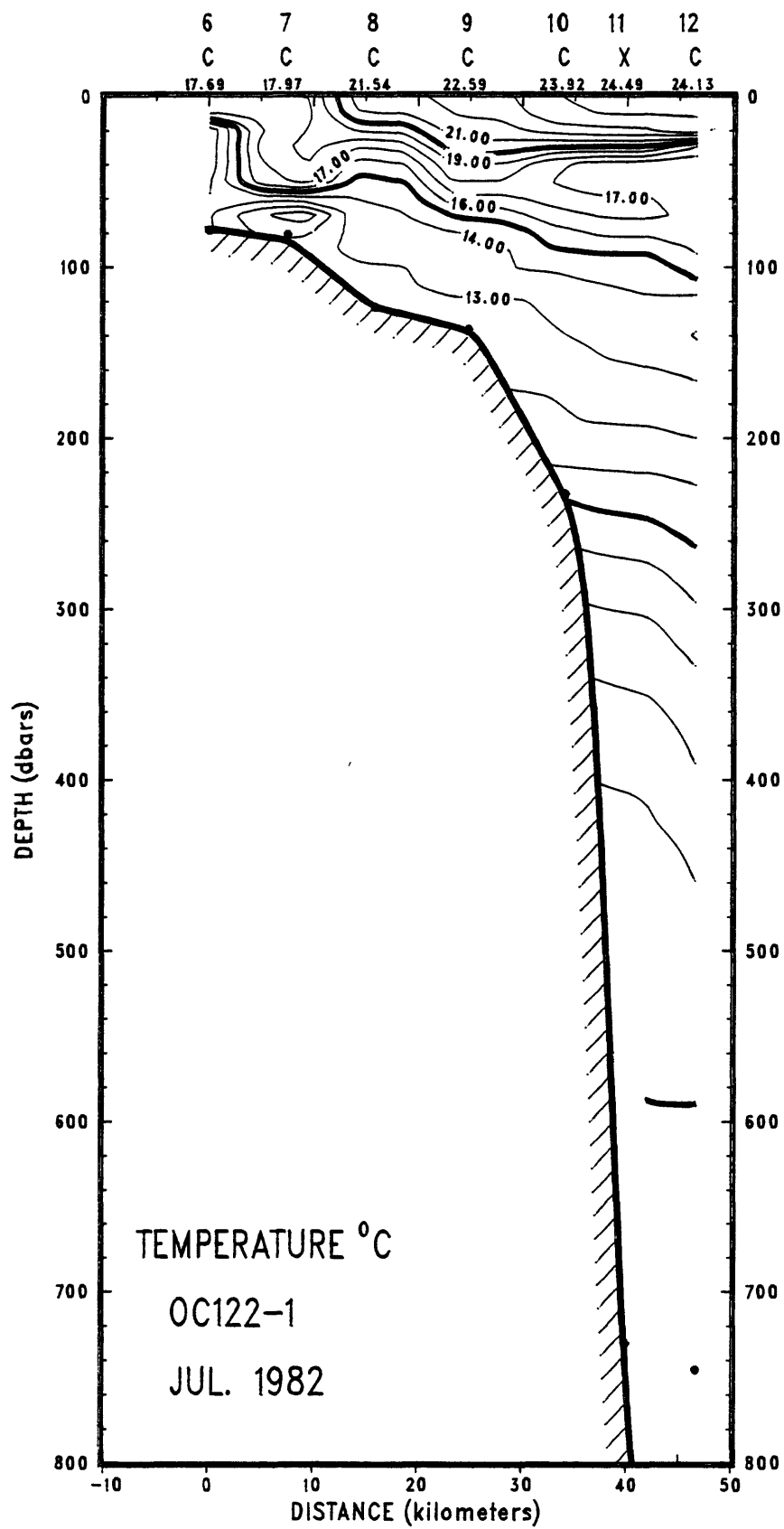
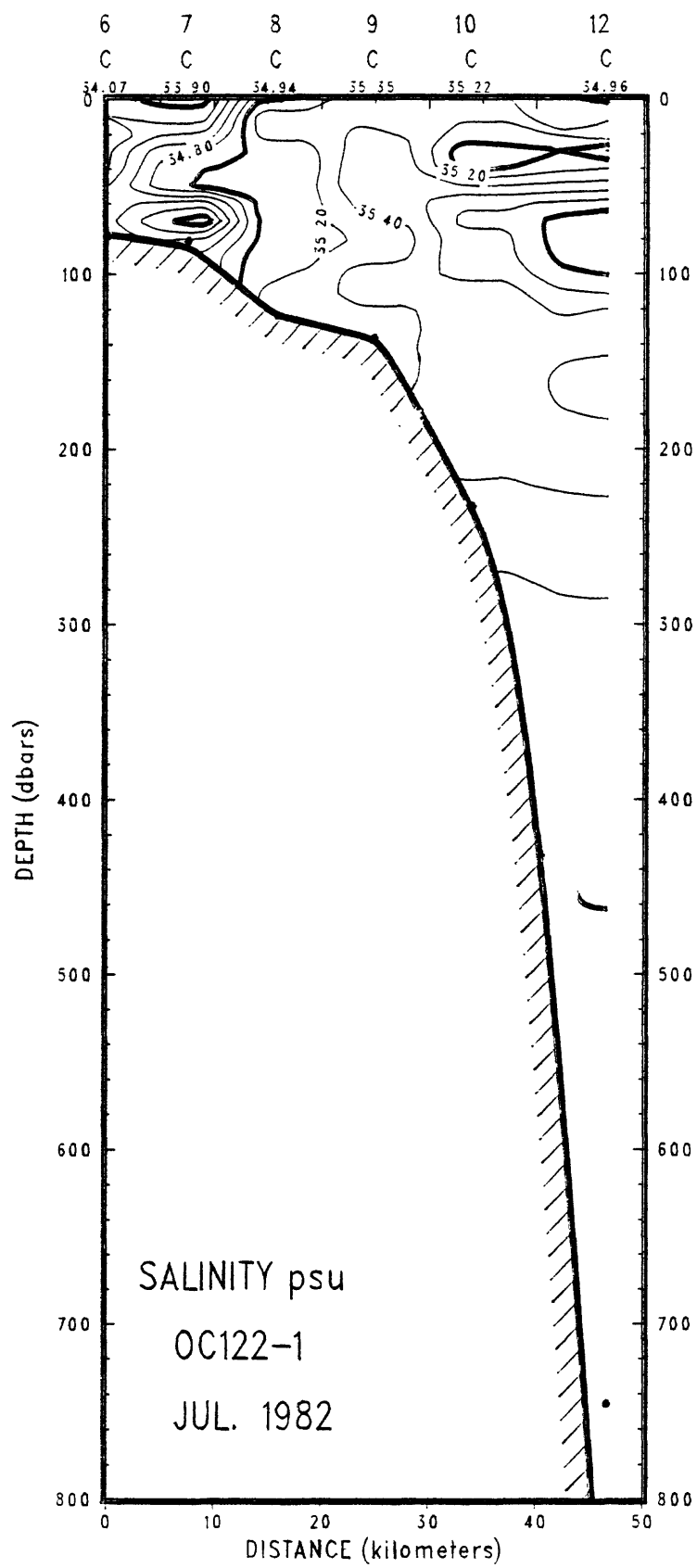


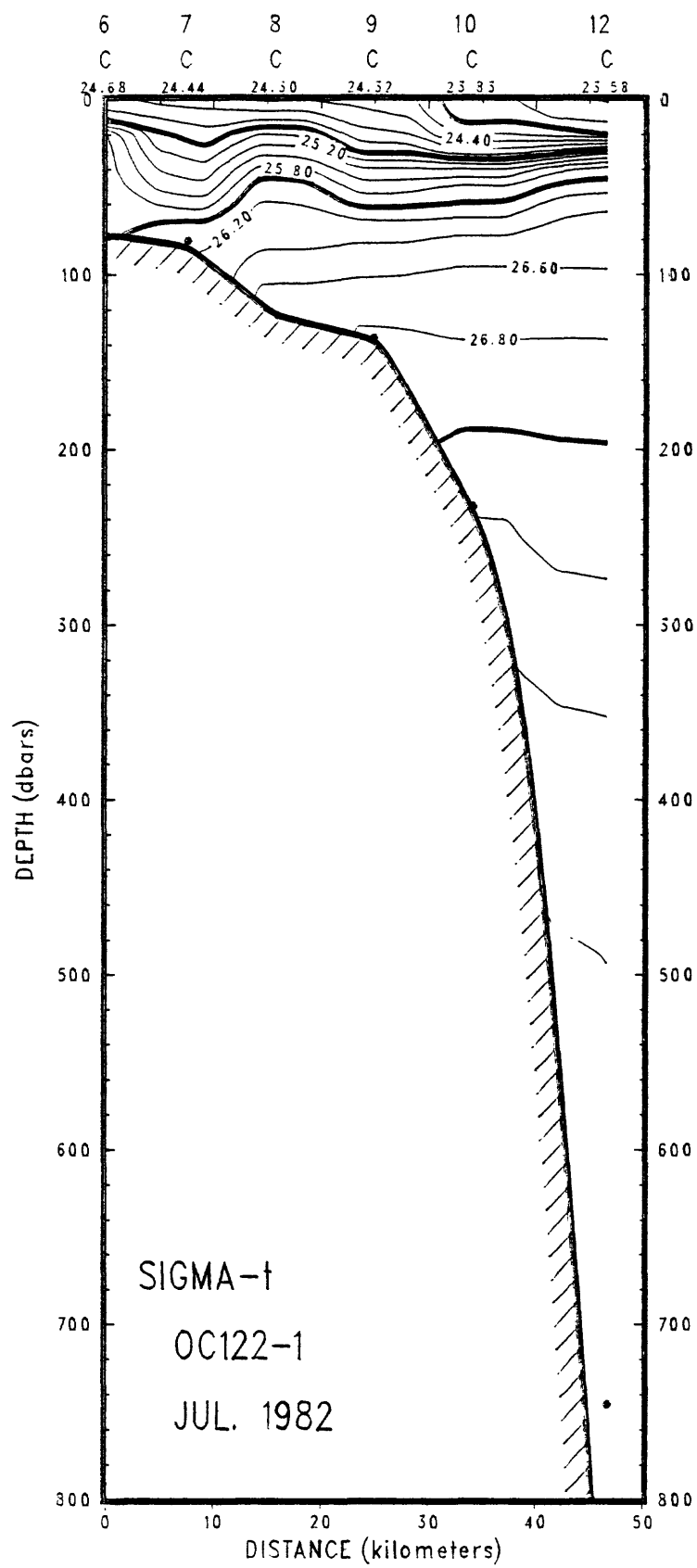
Figure 3a. Lydonia Canyon moored array, deployment IV. Stations are identified by letters. The three digit number following the station letters is the mooring number.
 3b. Lydonia Canyon moored array, deployment V.

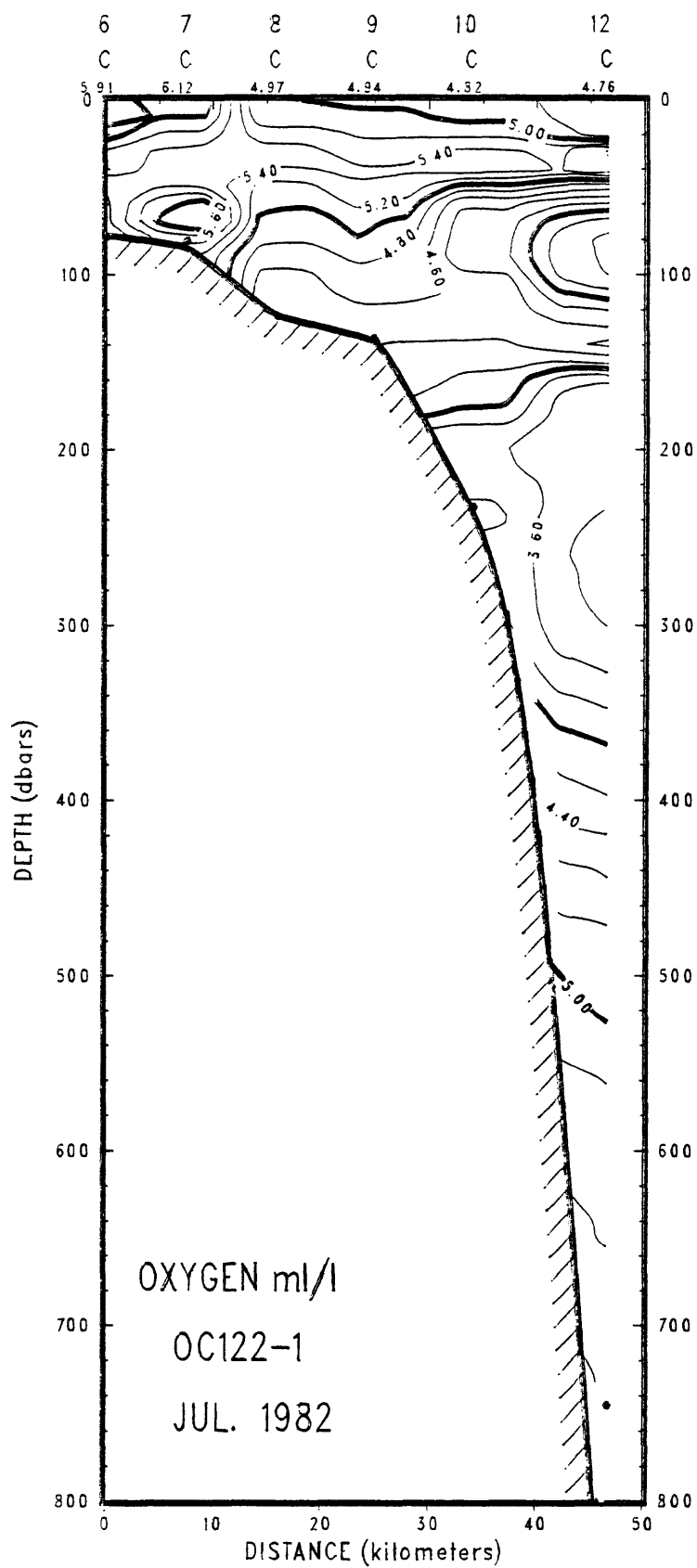
Vertical sections

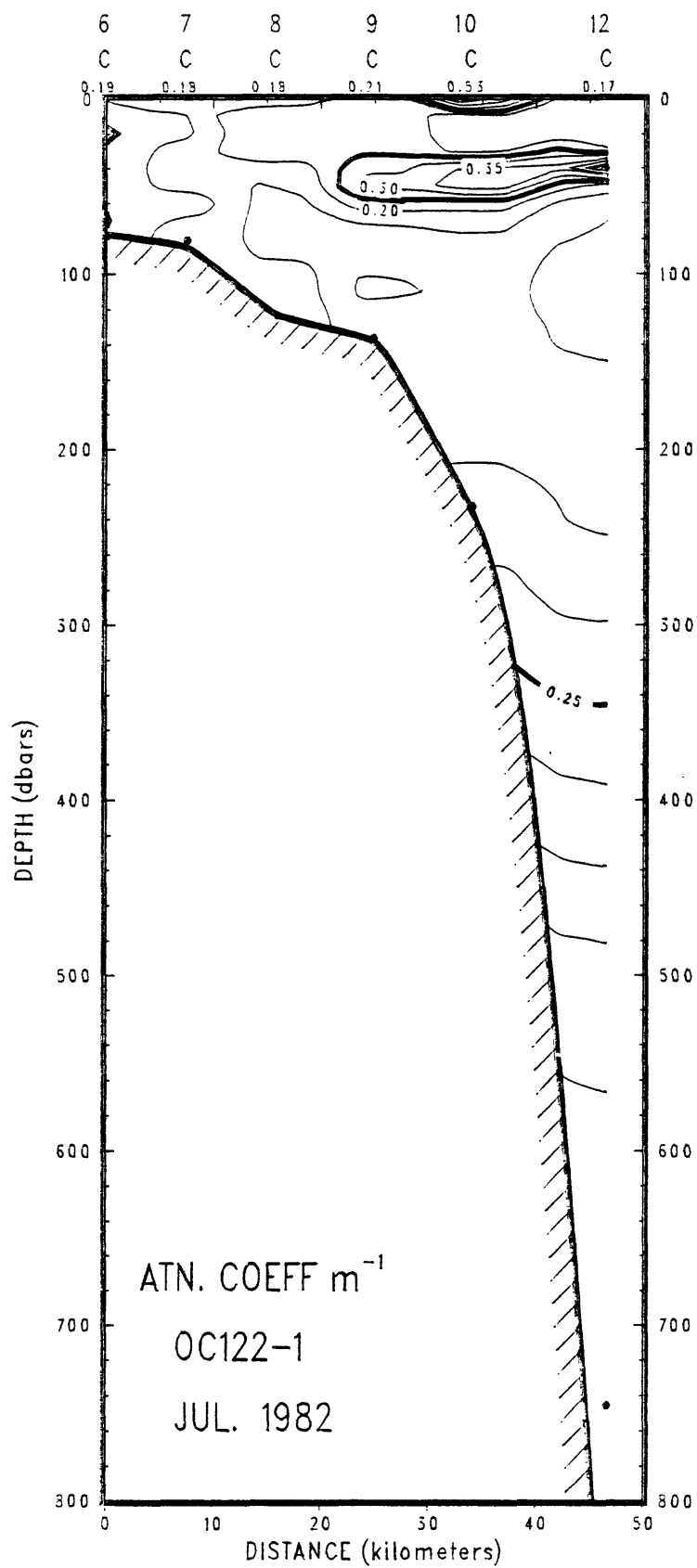
The section numbers follow the hyphen after the cruise symbol OC122 (see fig. 1, 2 and table 1). The station numbers are shown across the top of each section with the station type (C = CTD or X = XBT) and surface value of the contoured variable printed below. The contour intervals are the same for each section (1°C for temperature, 0.2 psu for salinity, 0.2 for sigma-t, 0.2 for oxygen, and 0.05 m⁻¹ for attenuation coefficient). The bathymetry for most sections is defined only by the depth at each station; thus the bottom profile is slightly different for sections where there are XBT stations in addition to the CTD stations. Contours were particularly difficult to draw near the walls in the cross-canyon sections where there was often only one station in the center of the axis. Because of the computer contouring routine, the shape and slope of the contours near the sea floor should be interpreted with caution (see text). Section 1 did not have reliable oxygen values so that no section is presented. Dots indicate the deepest point in the east.

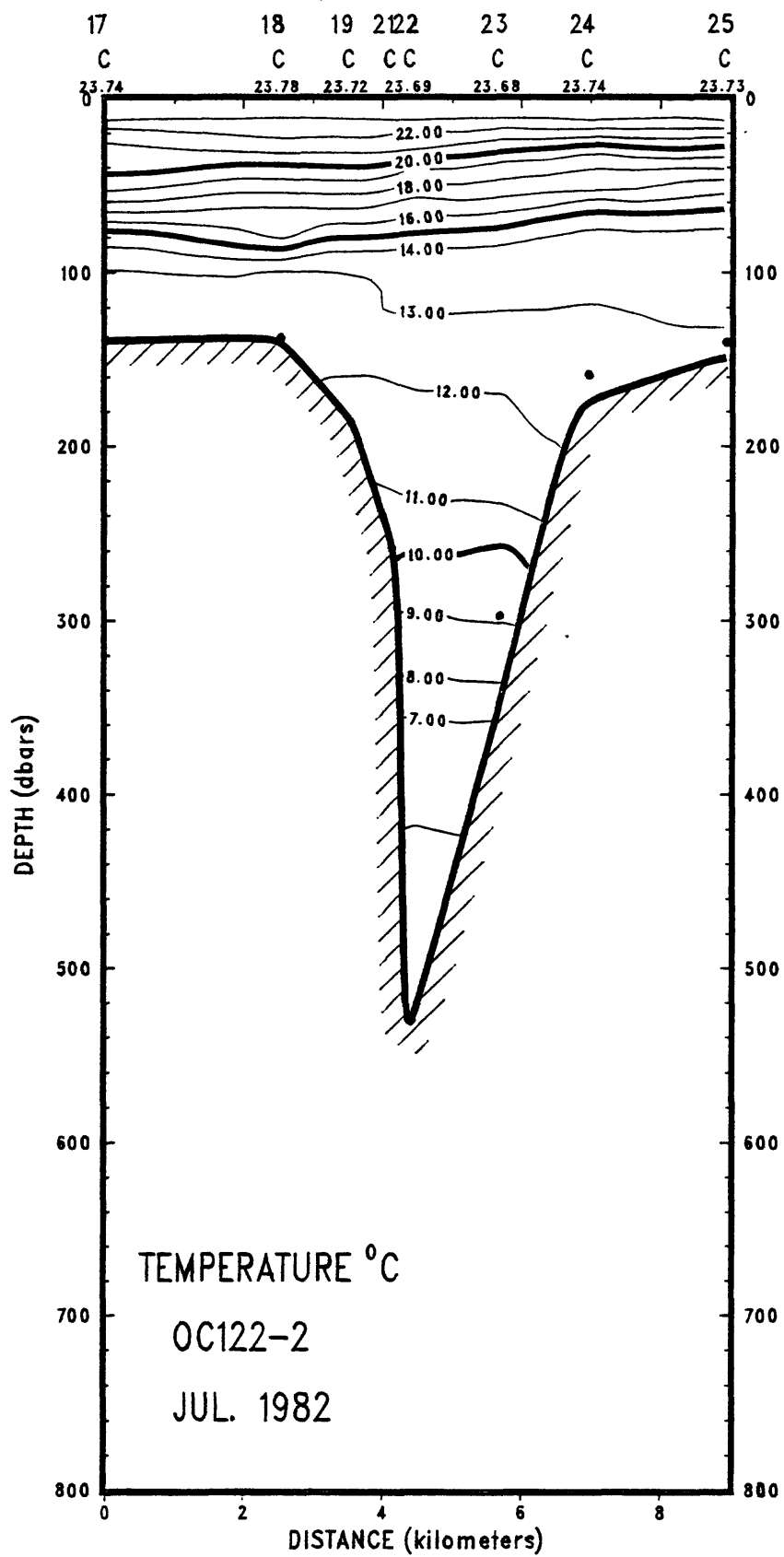


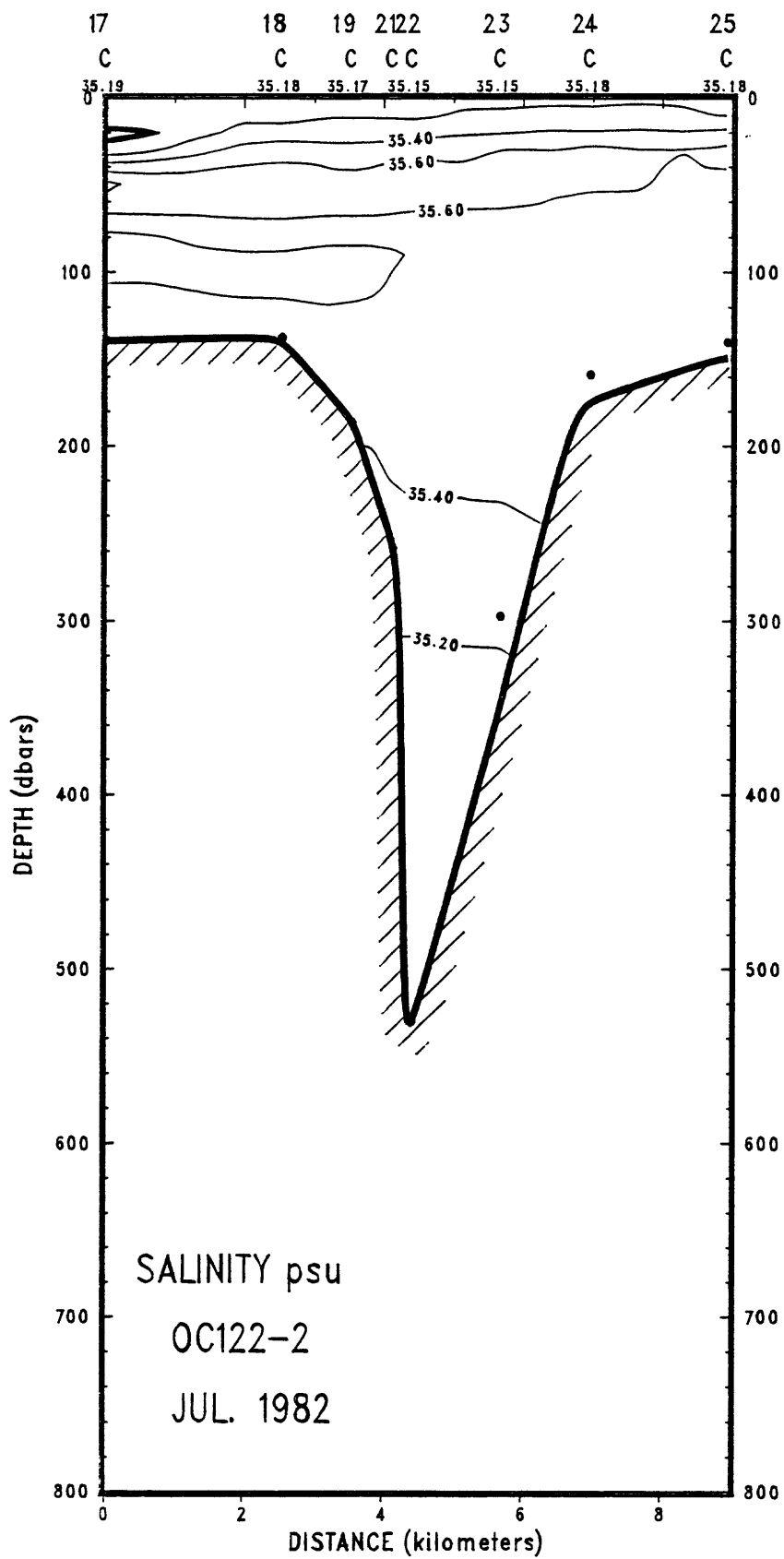


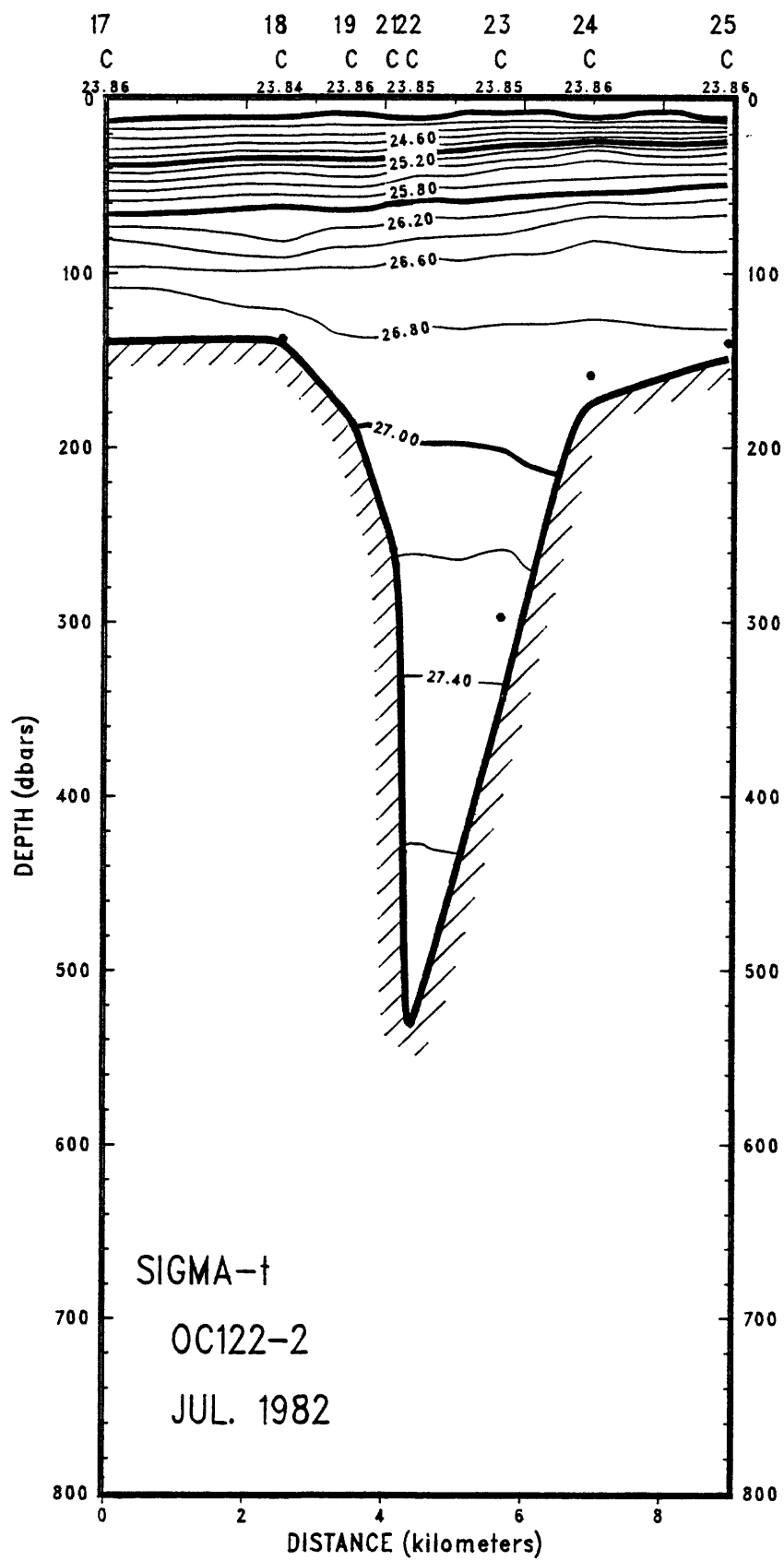


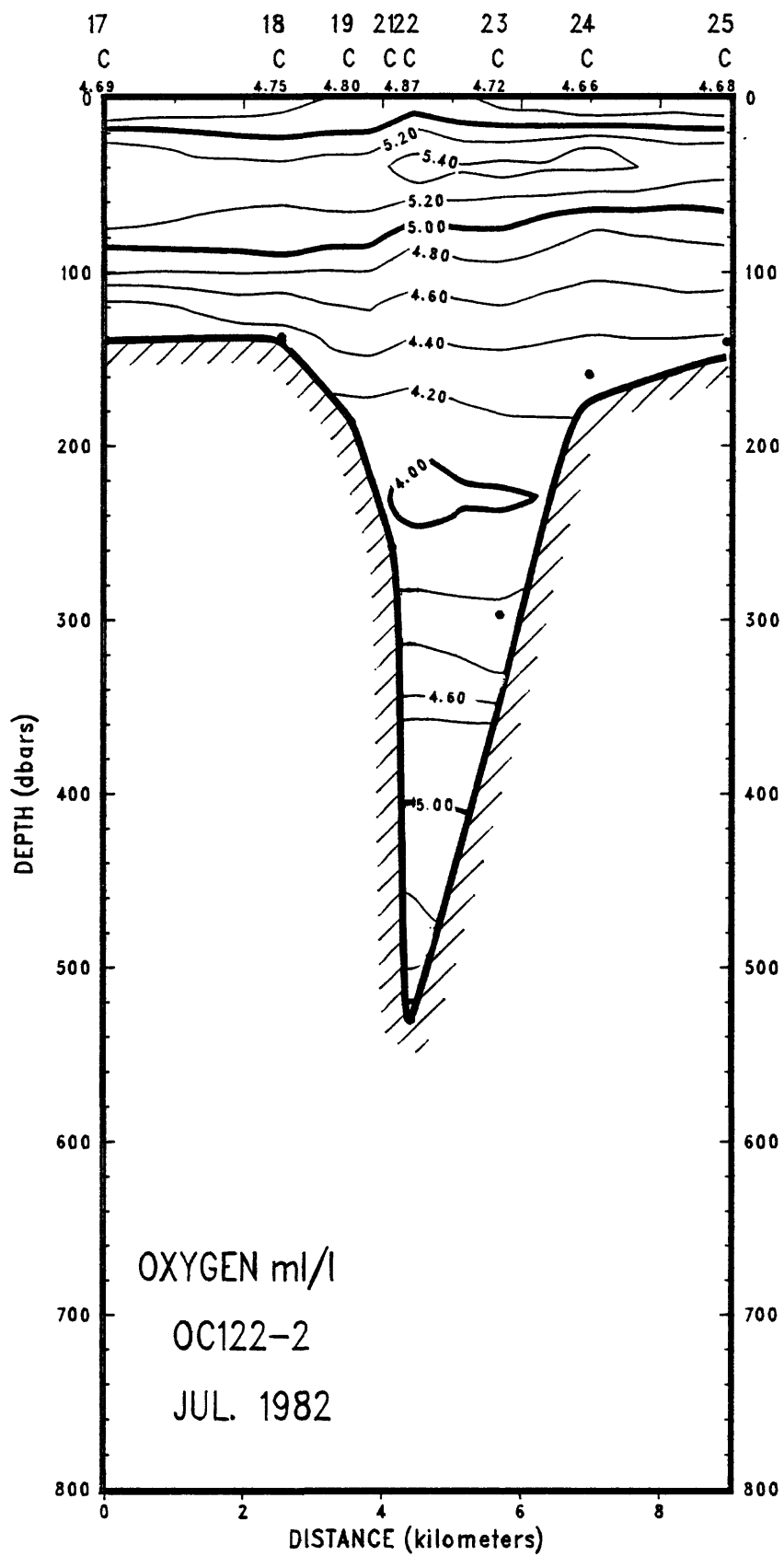


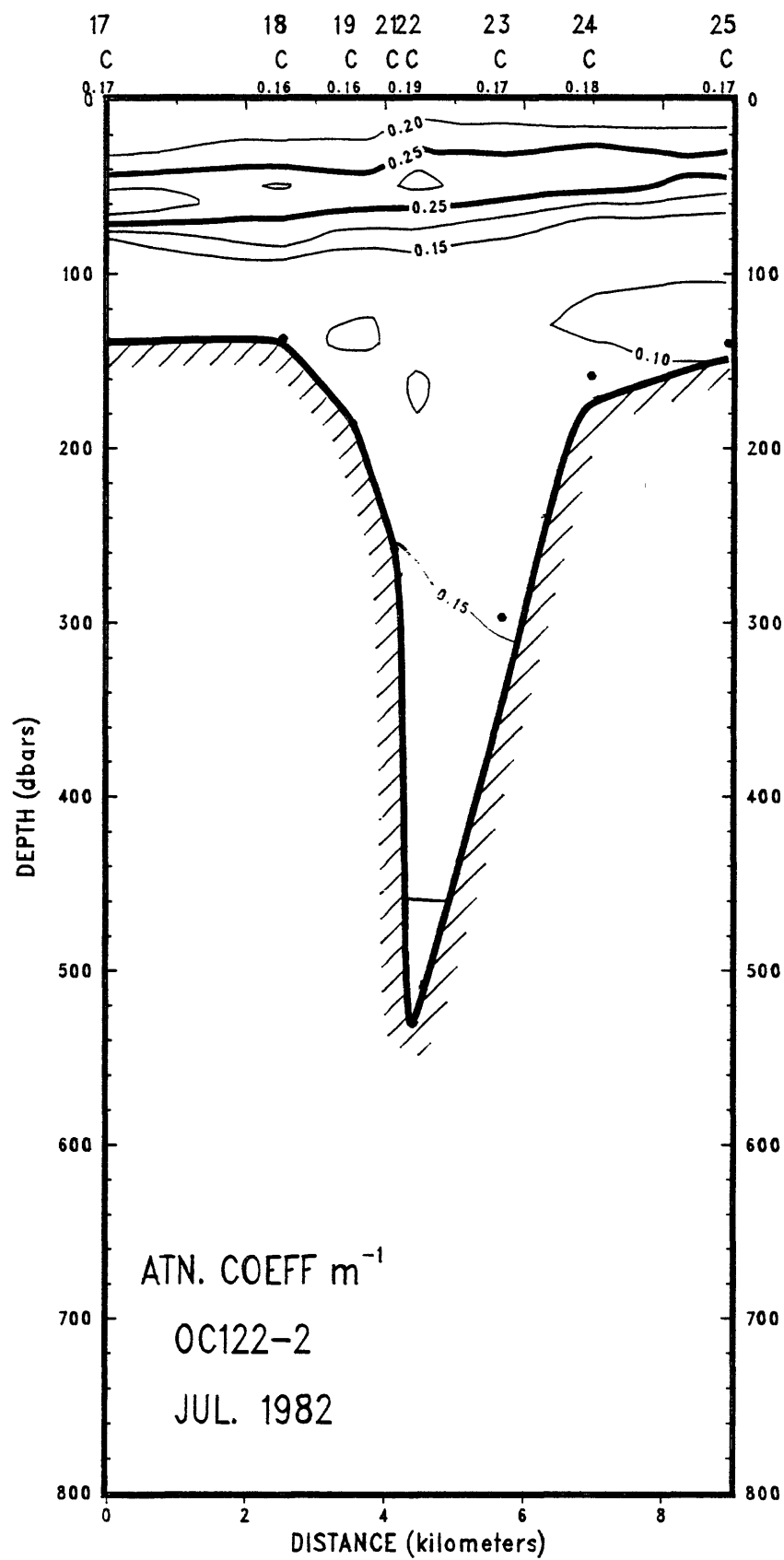


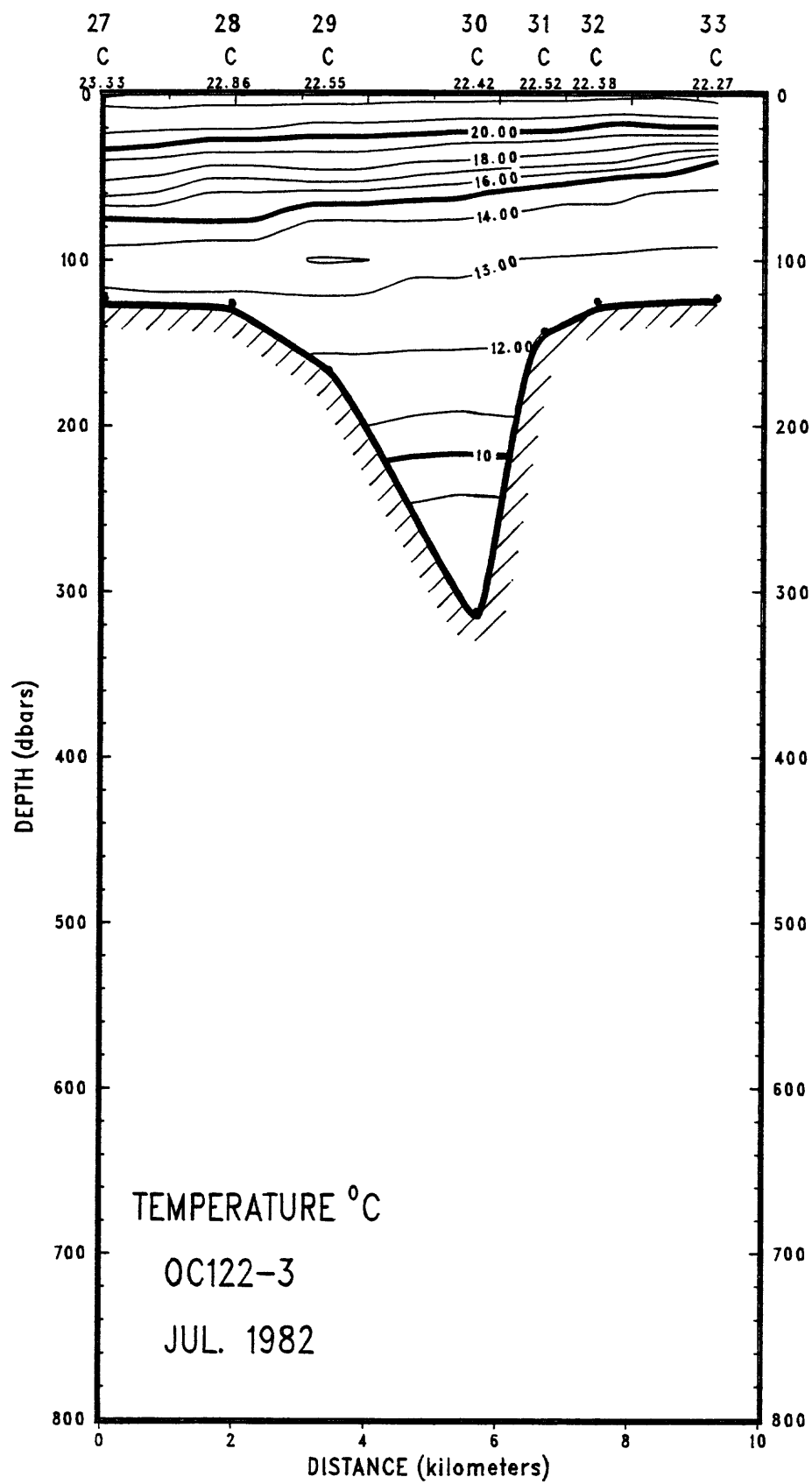


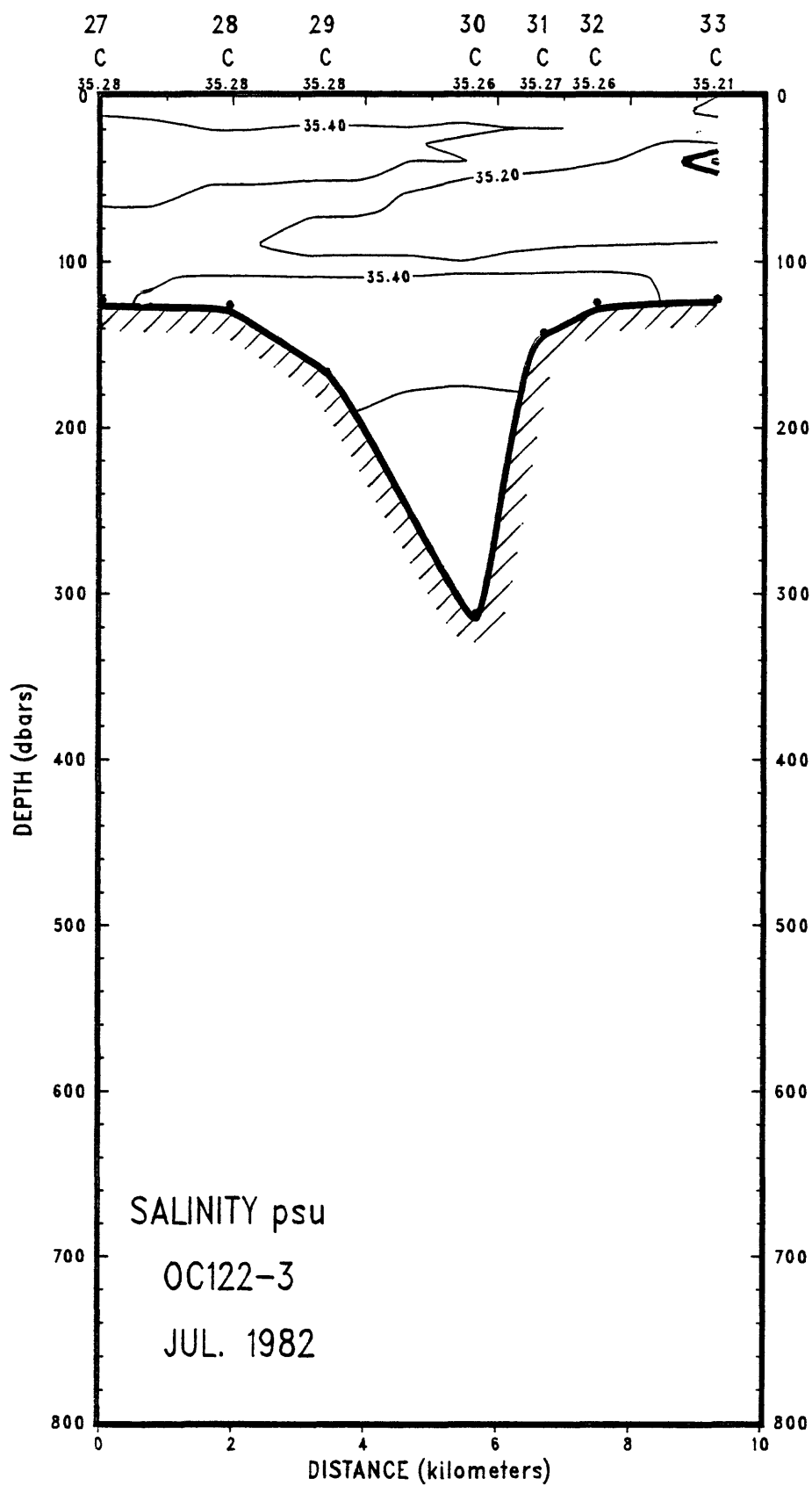


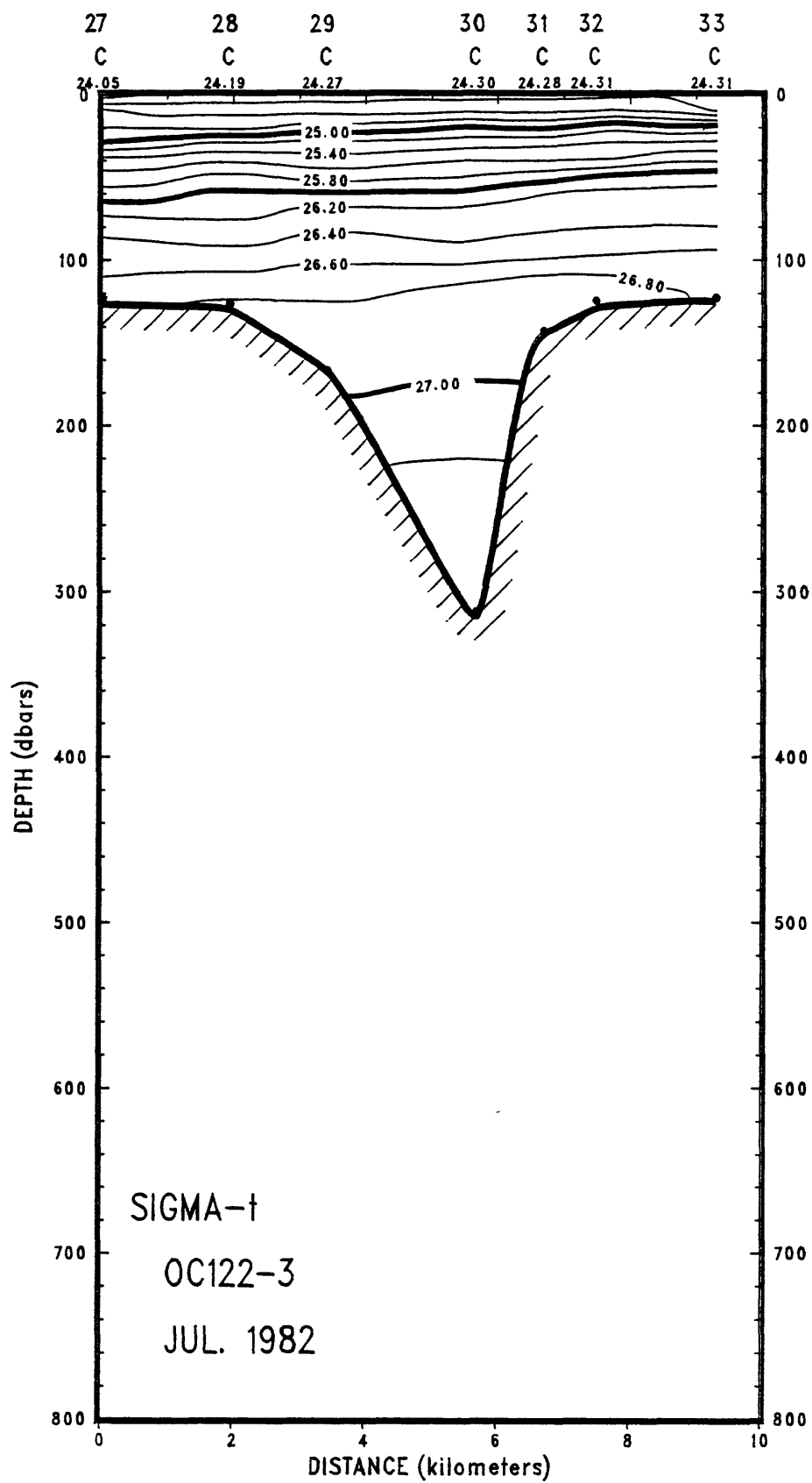


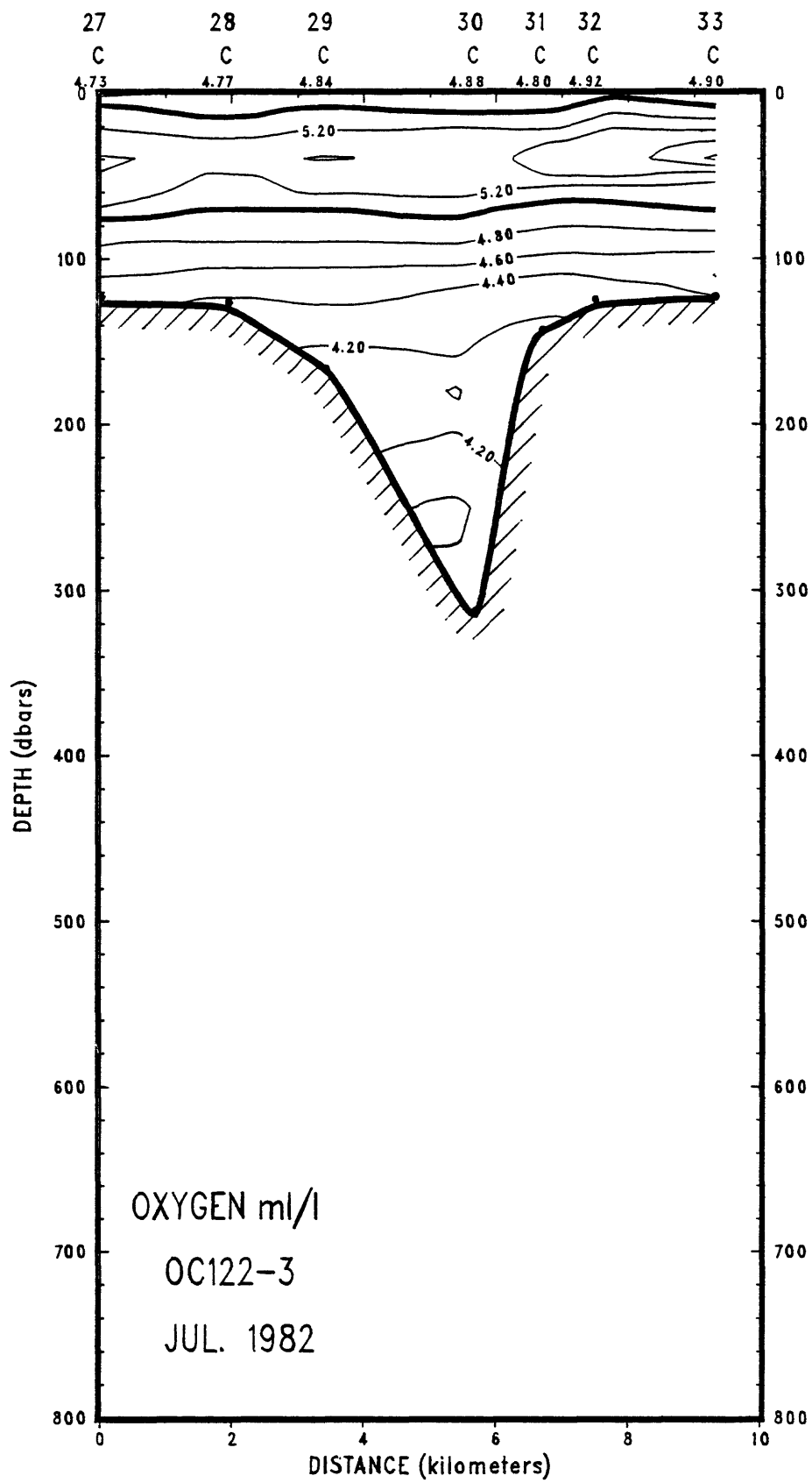


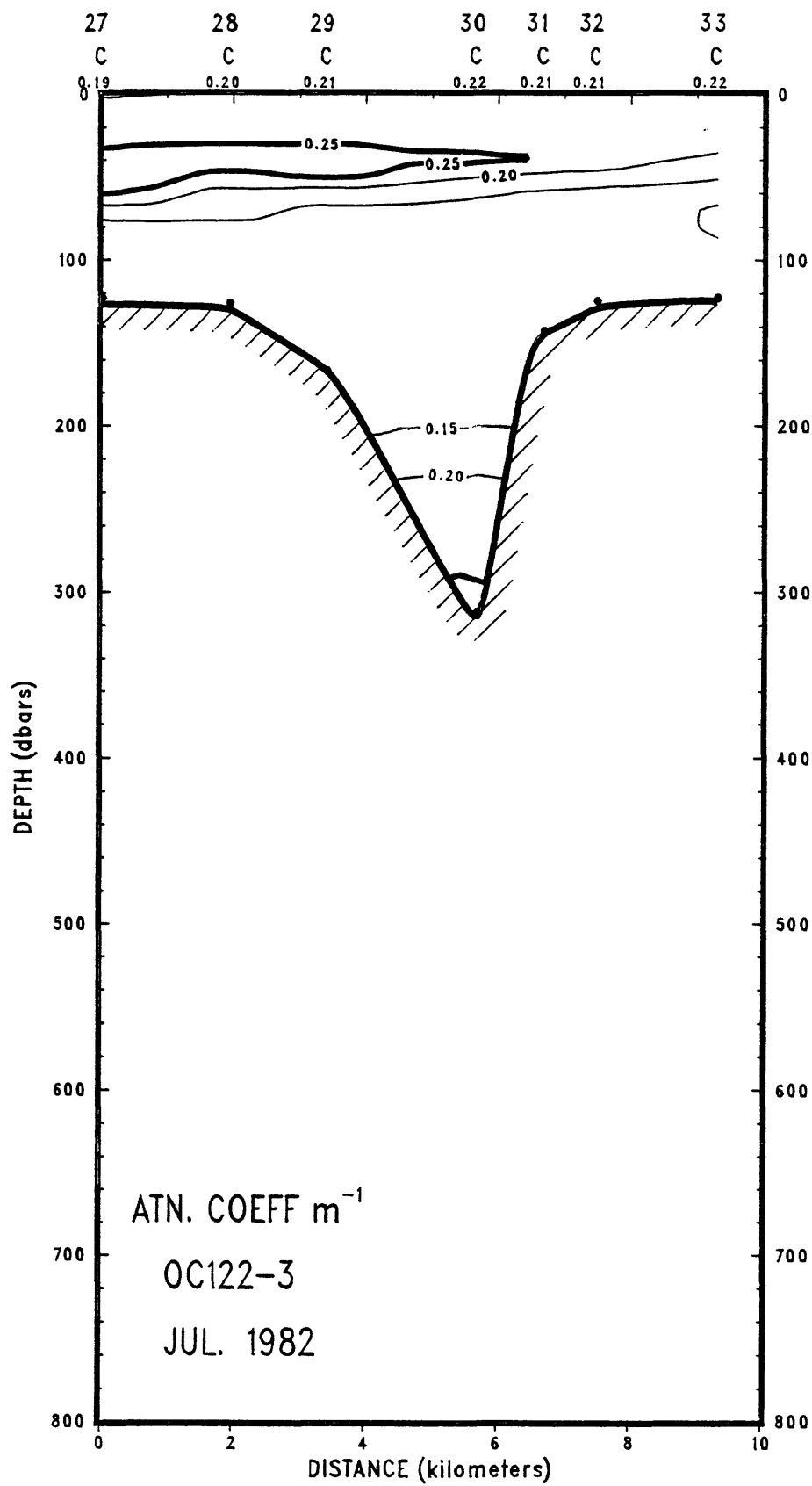


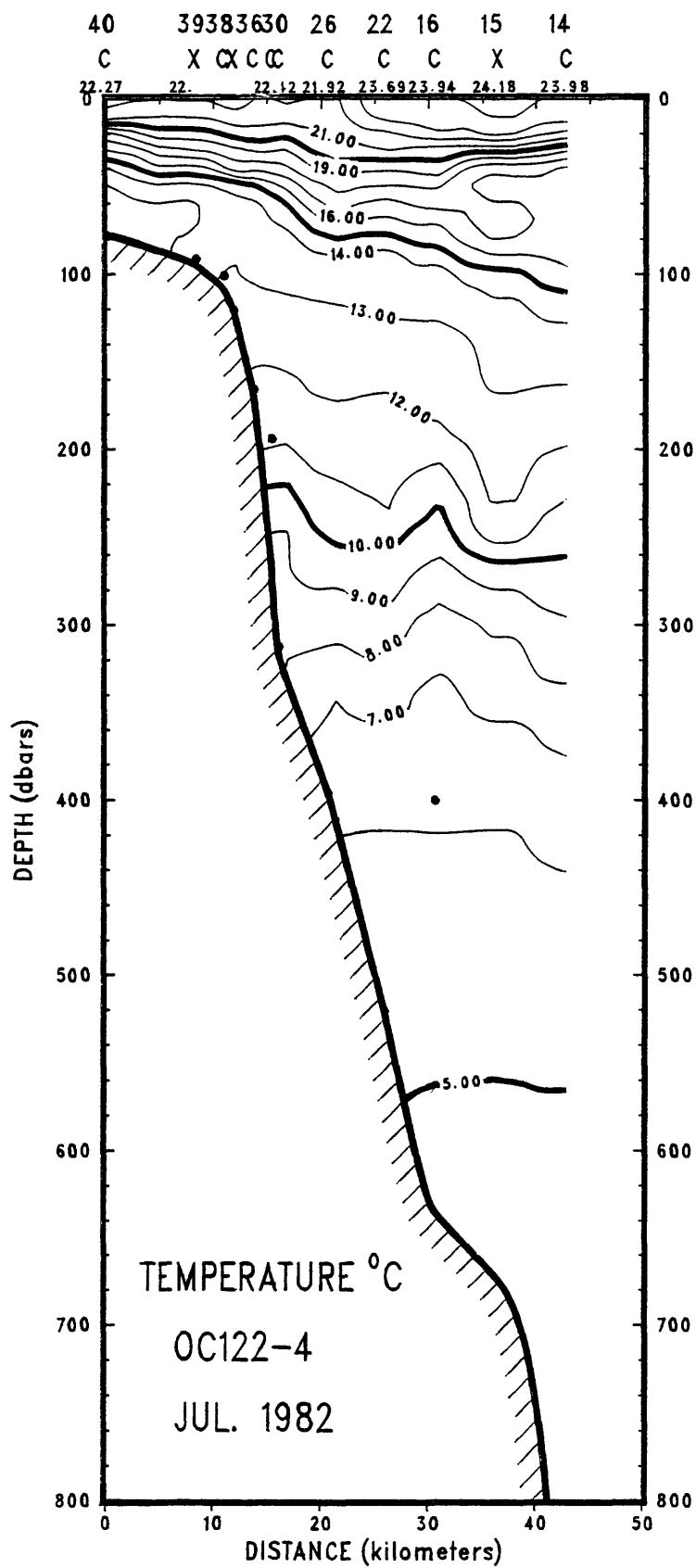


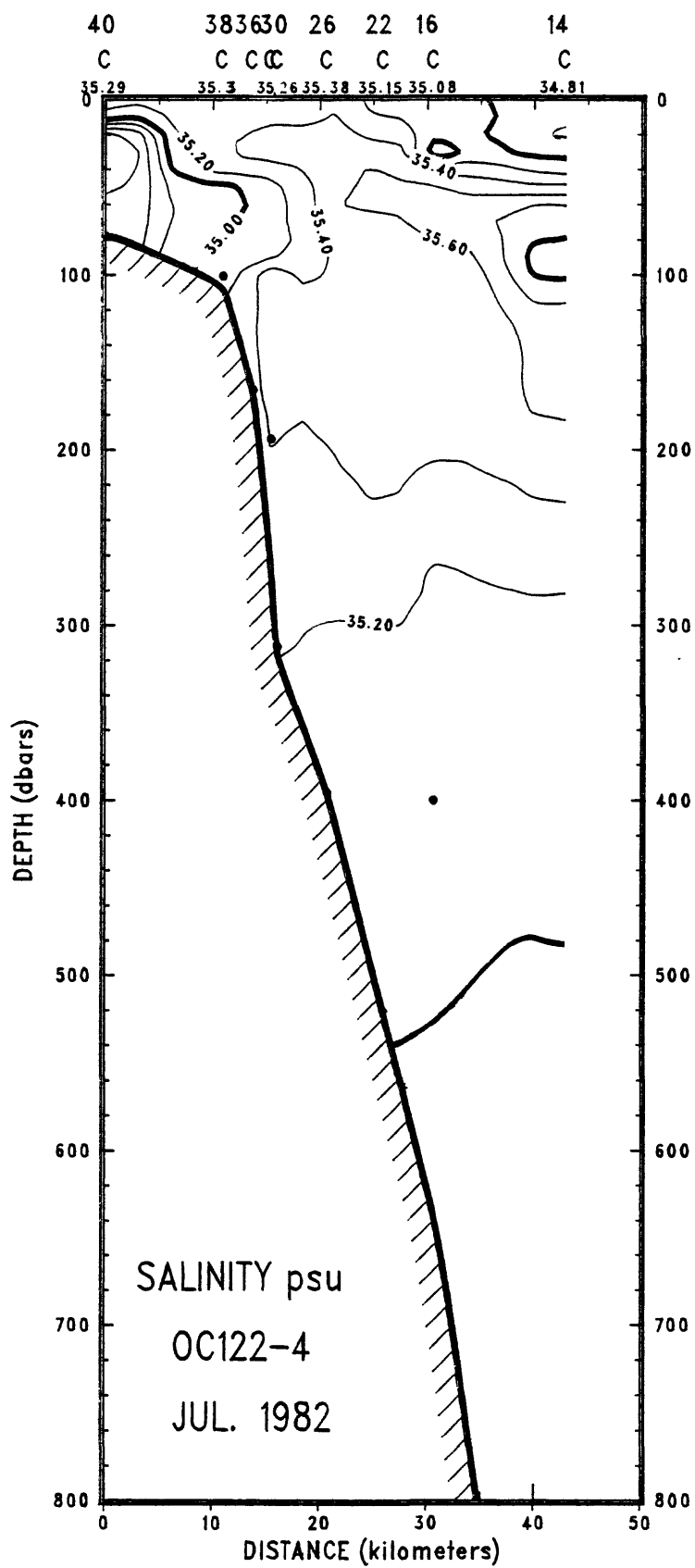


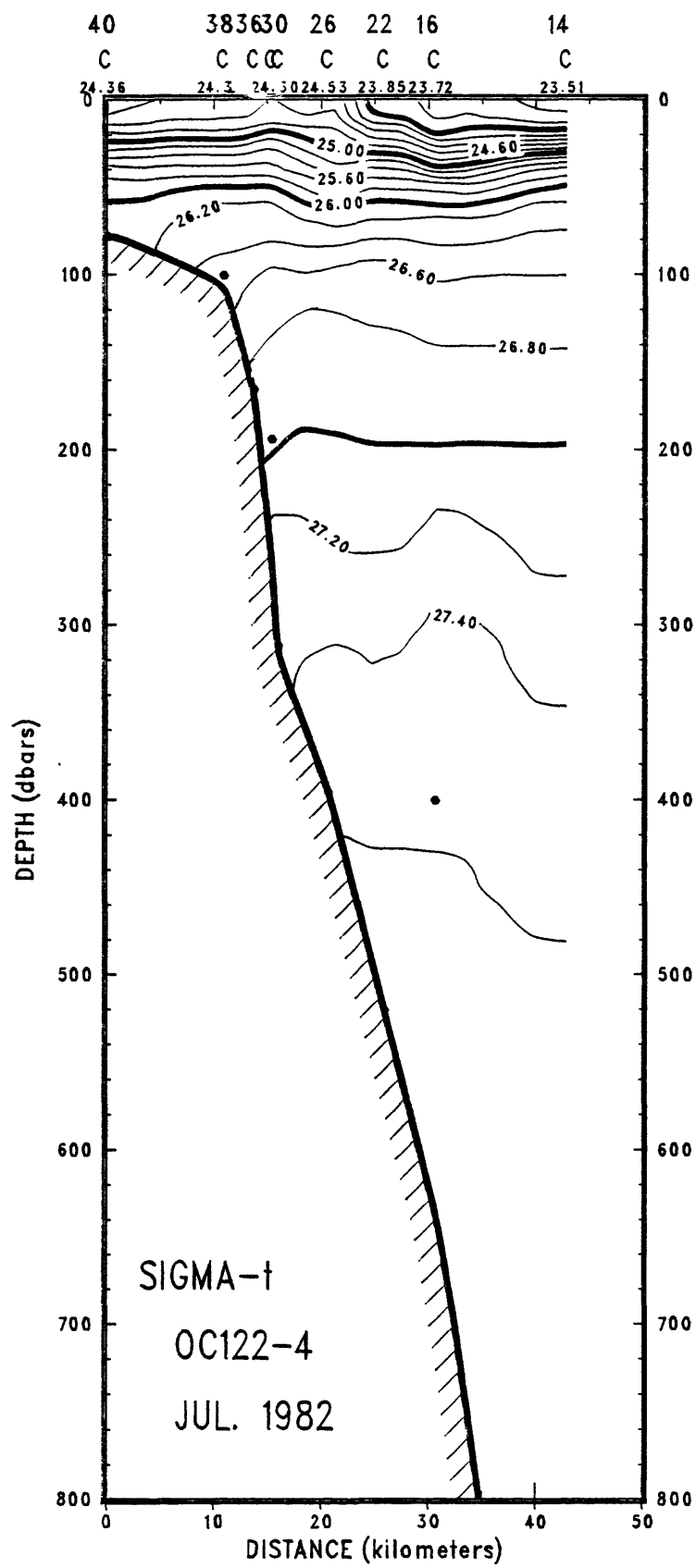


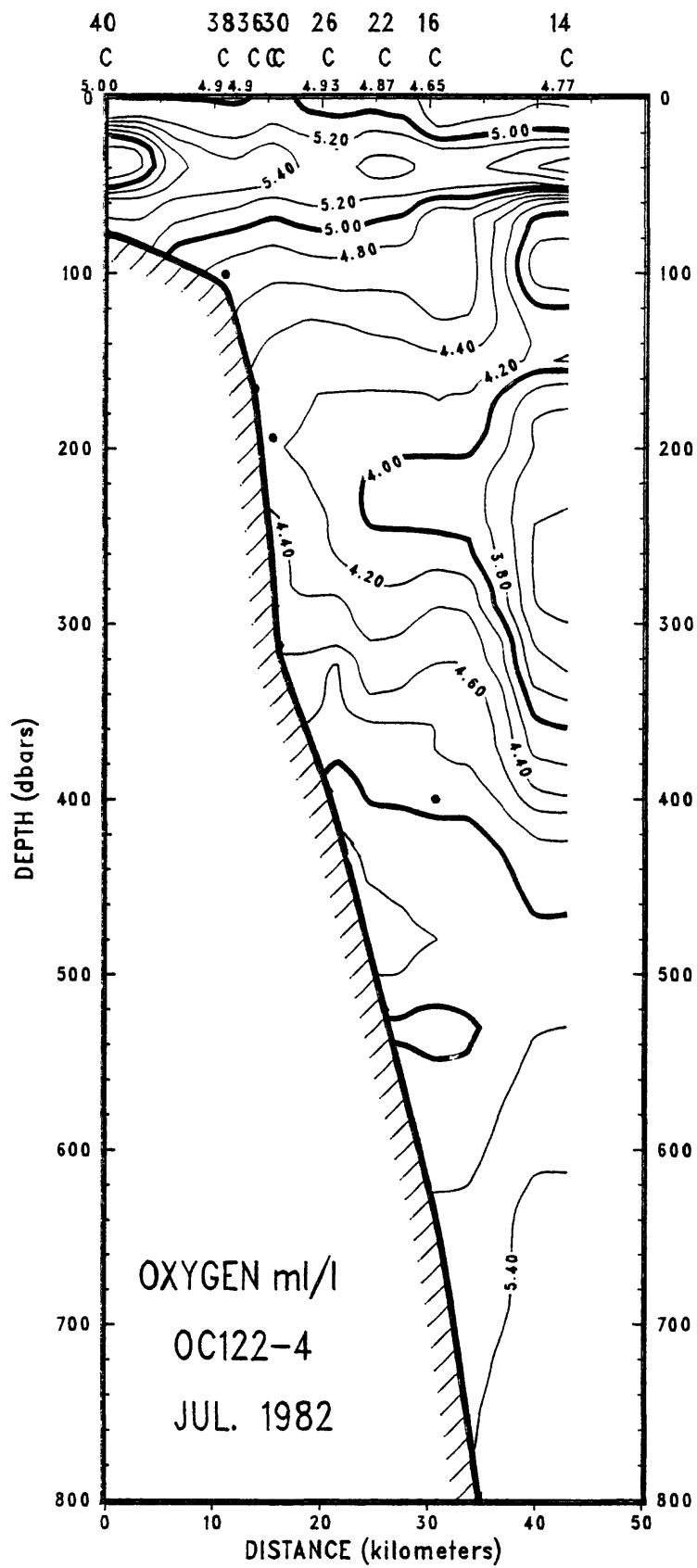


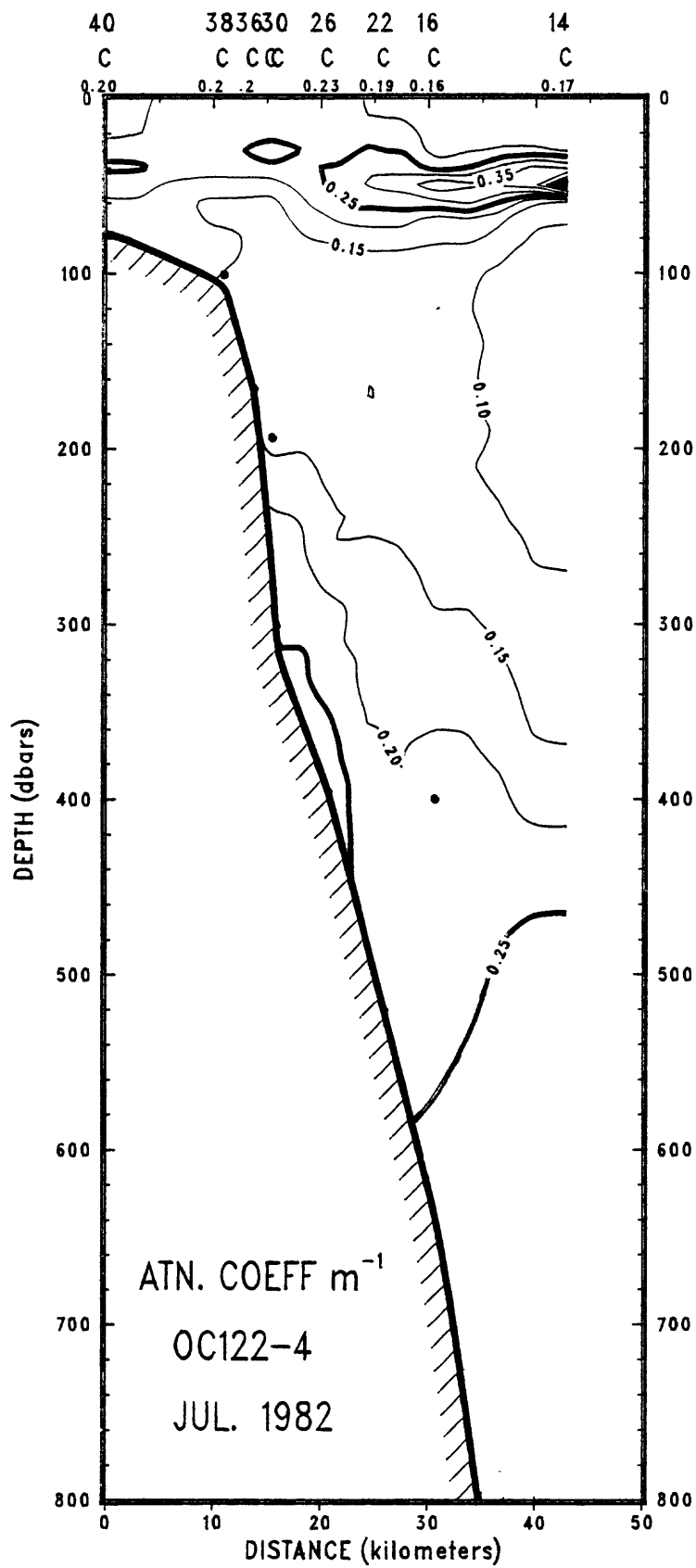


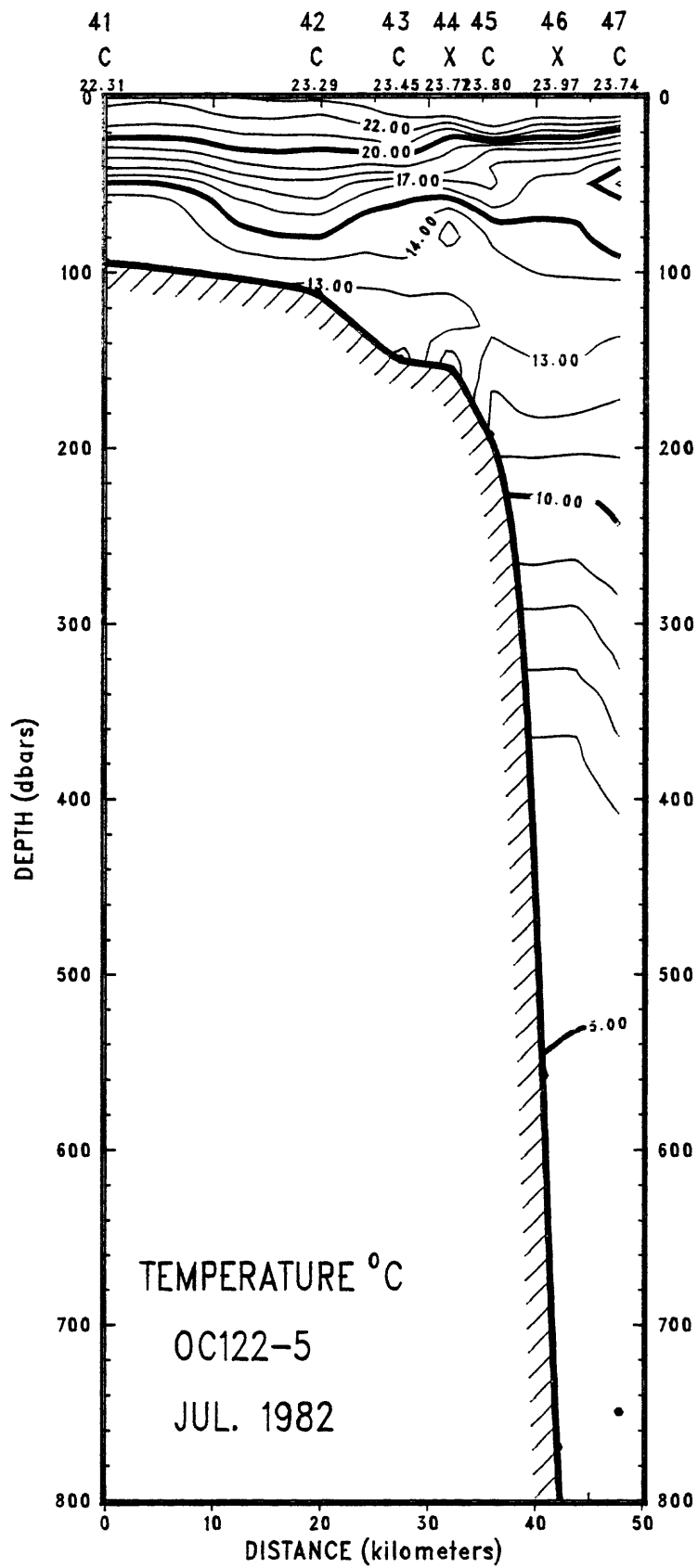


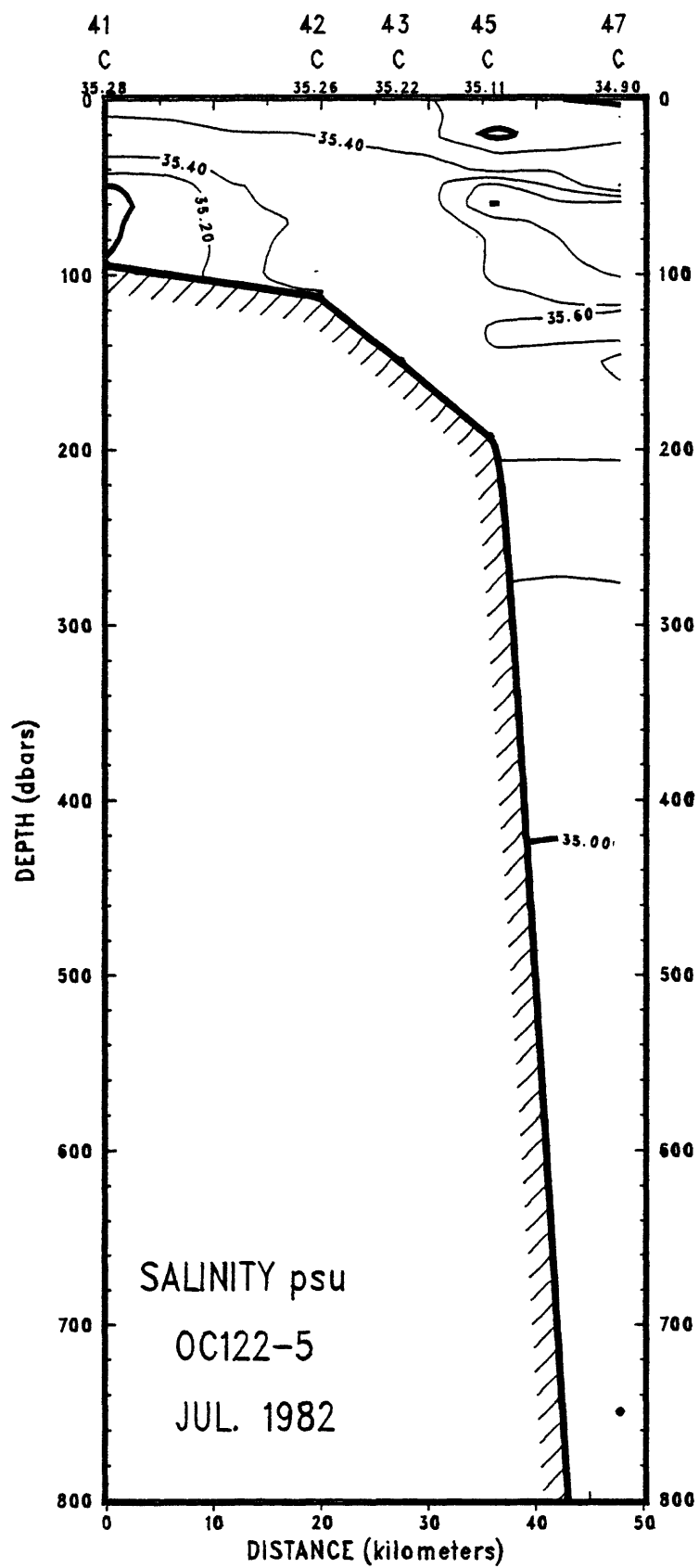


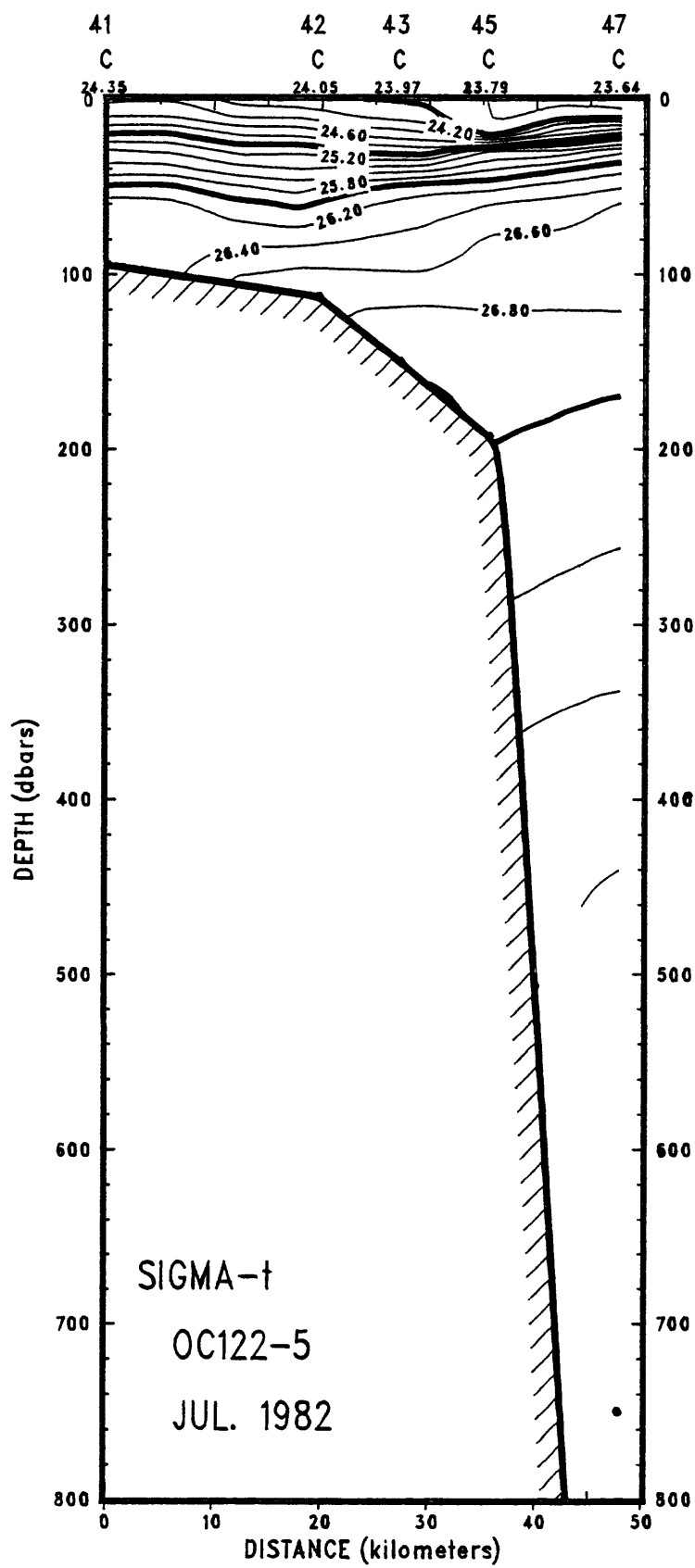


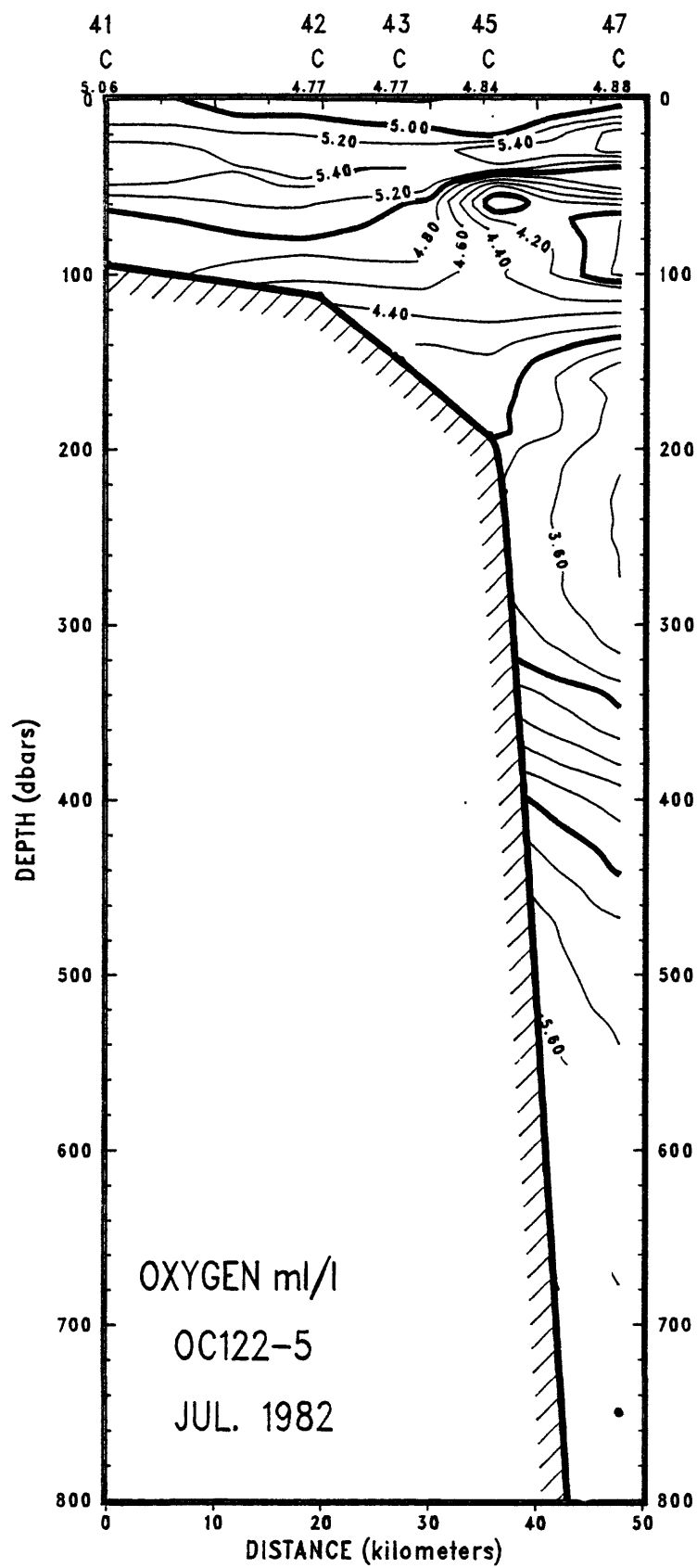


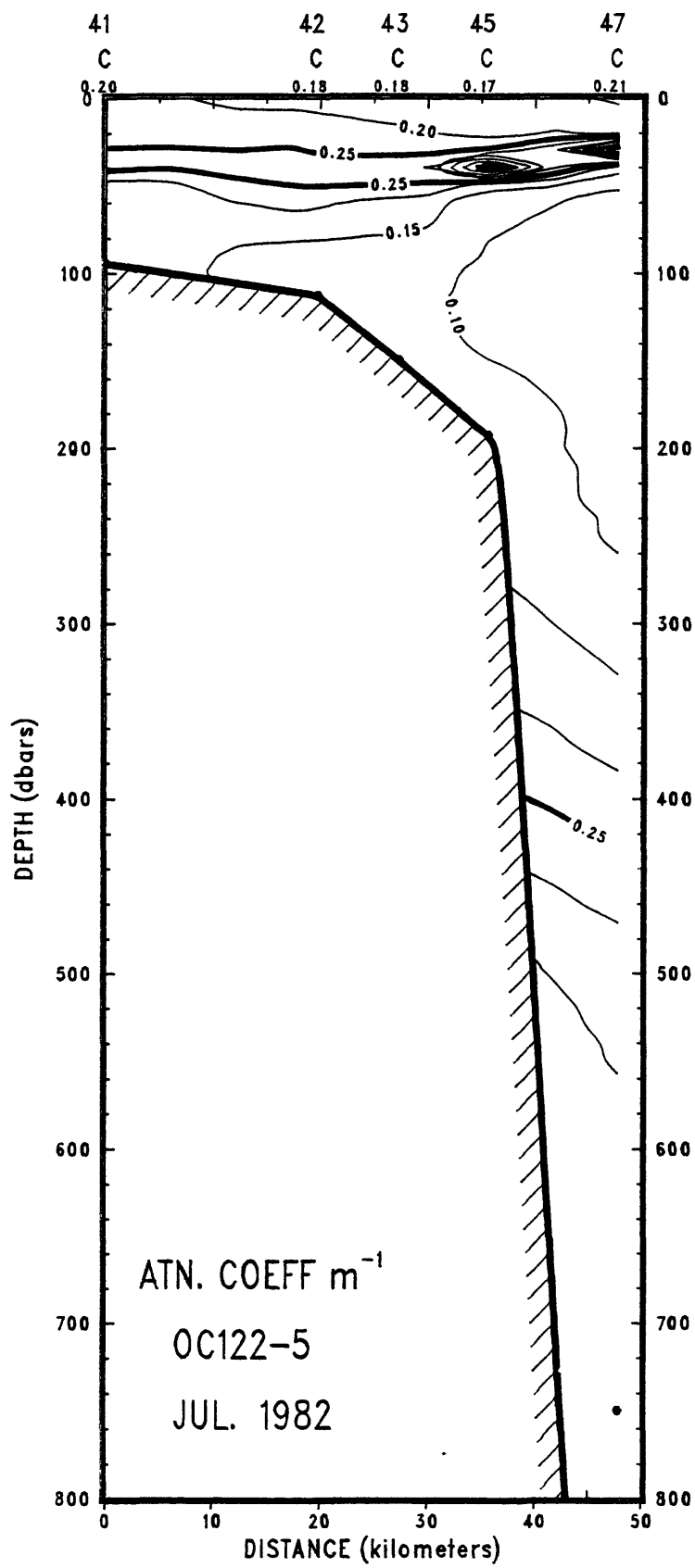


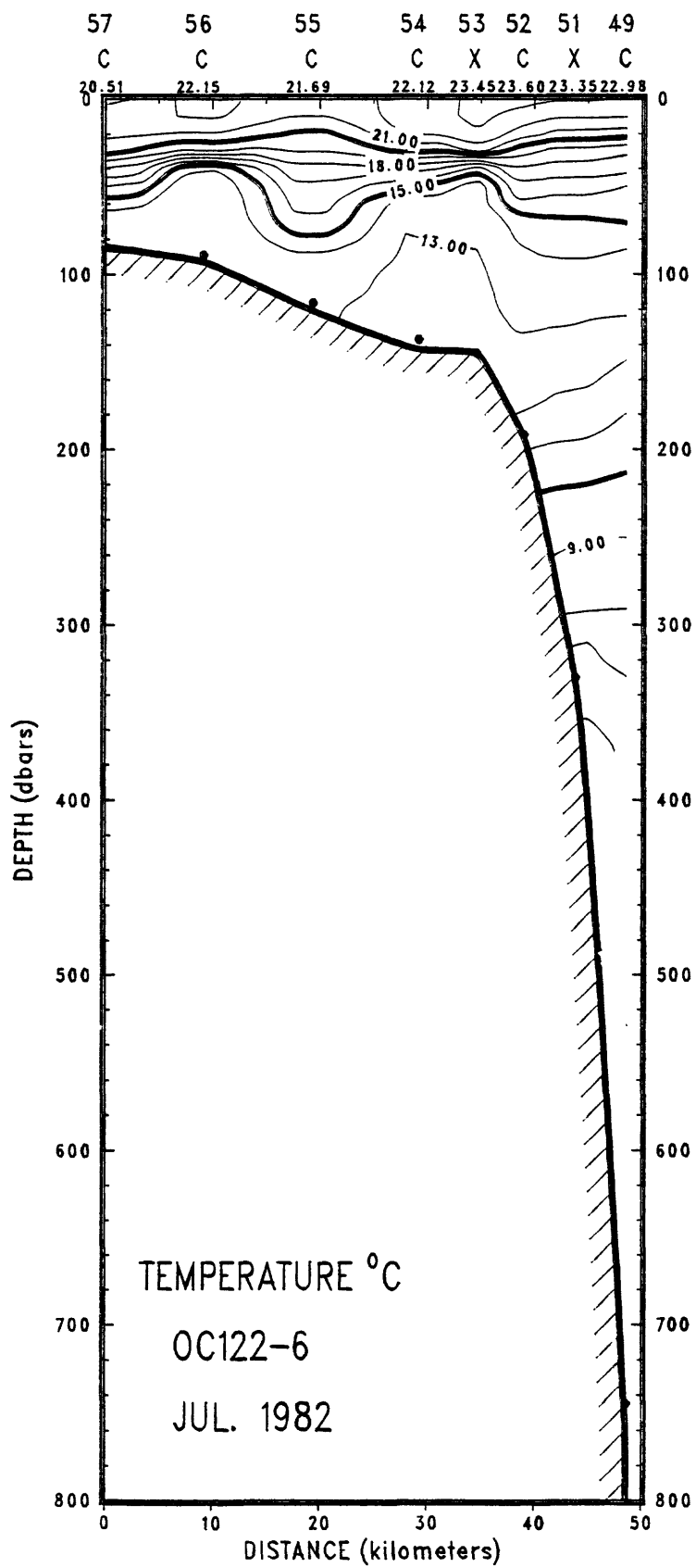


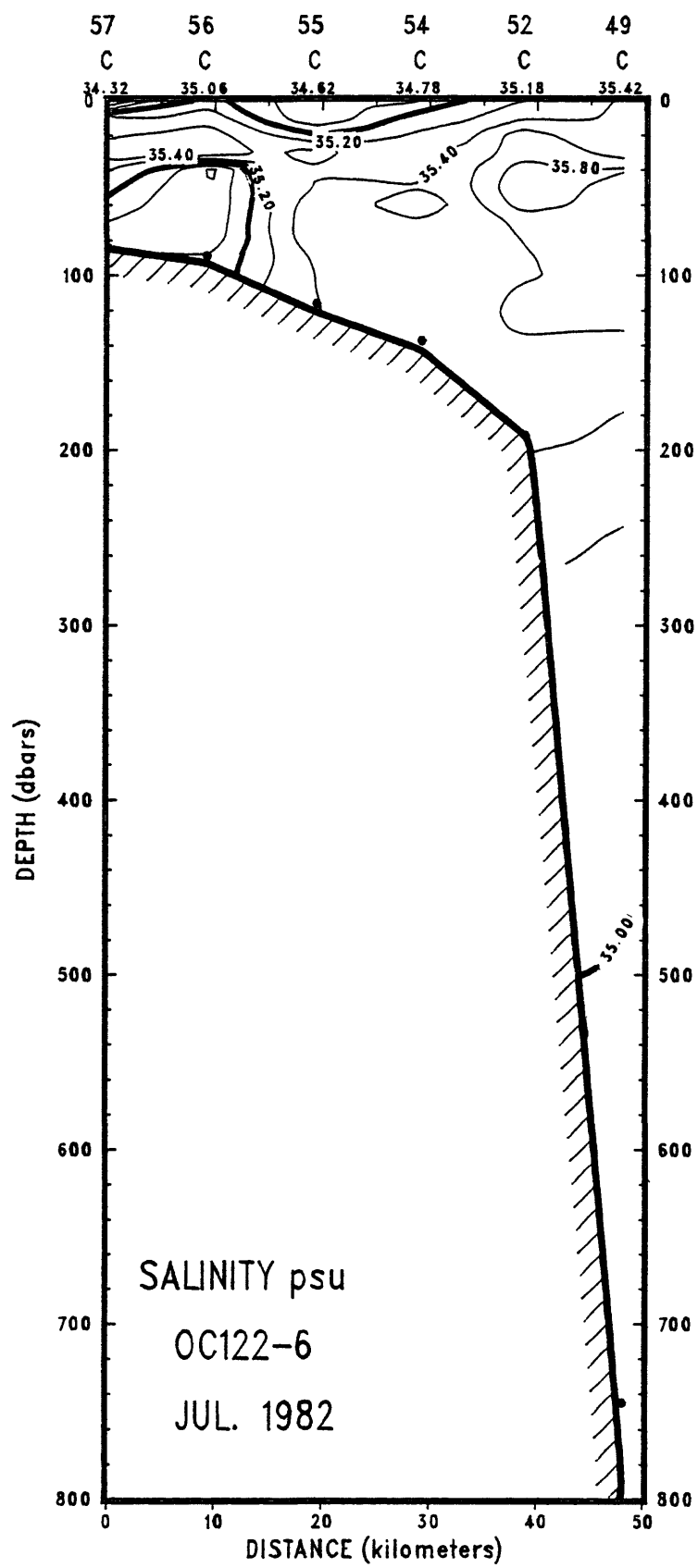


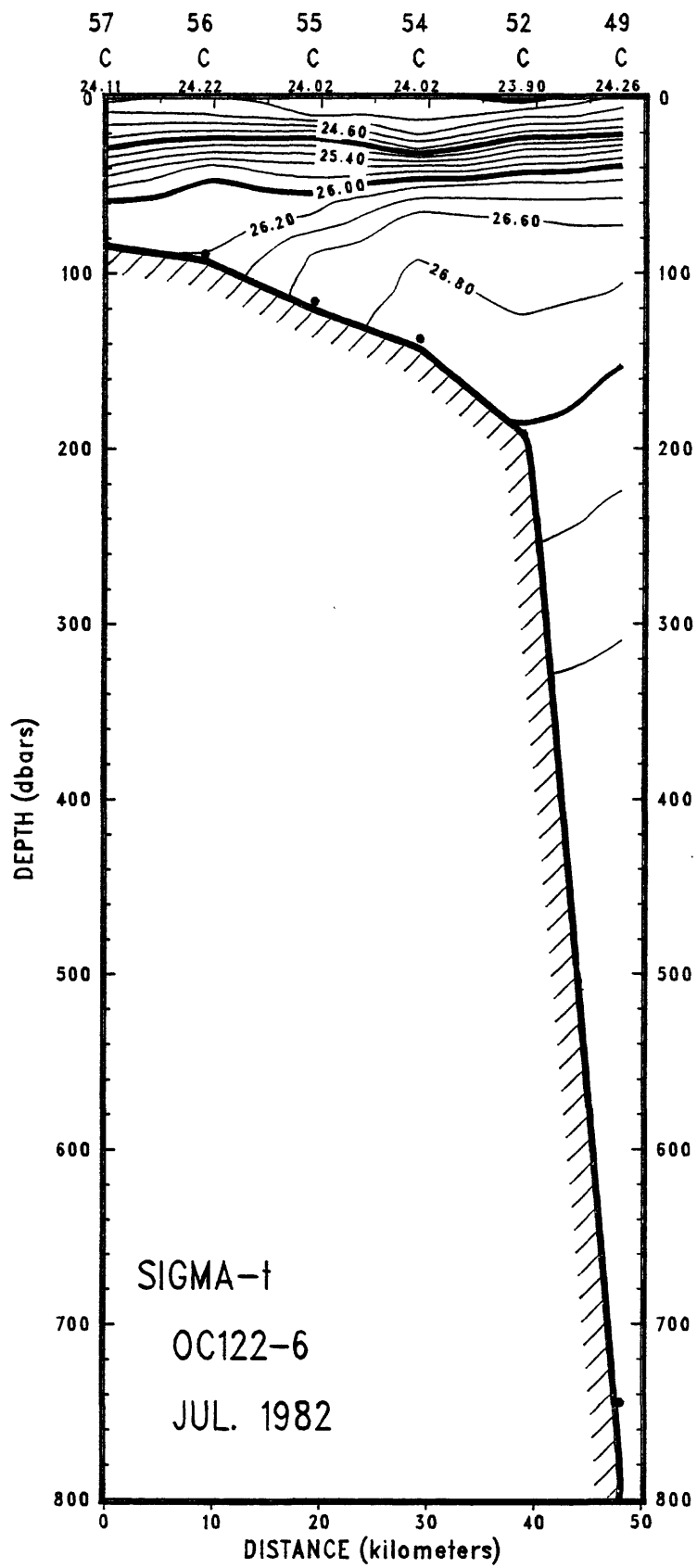


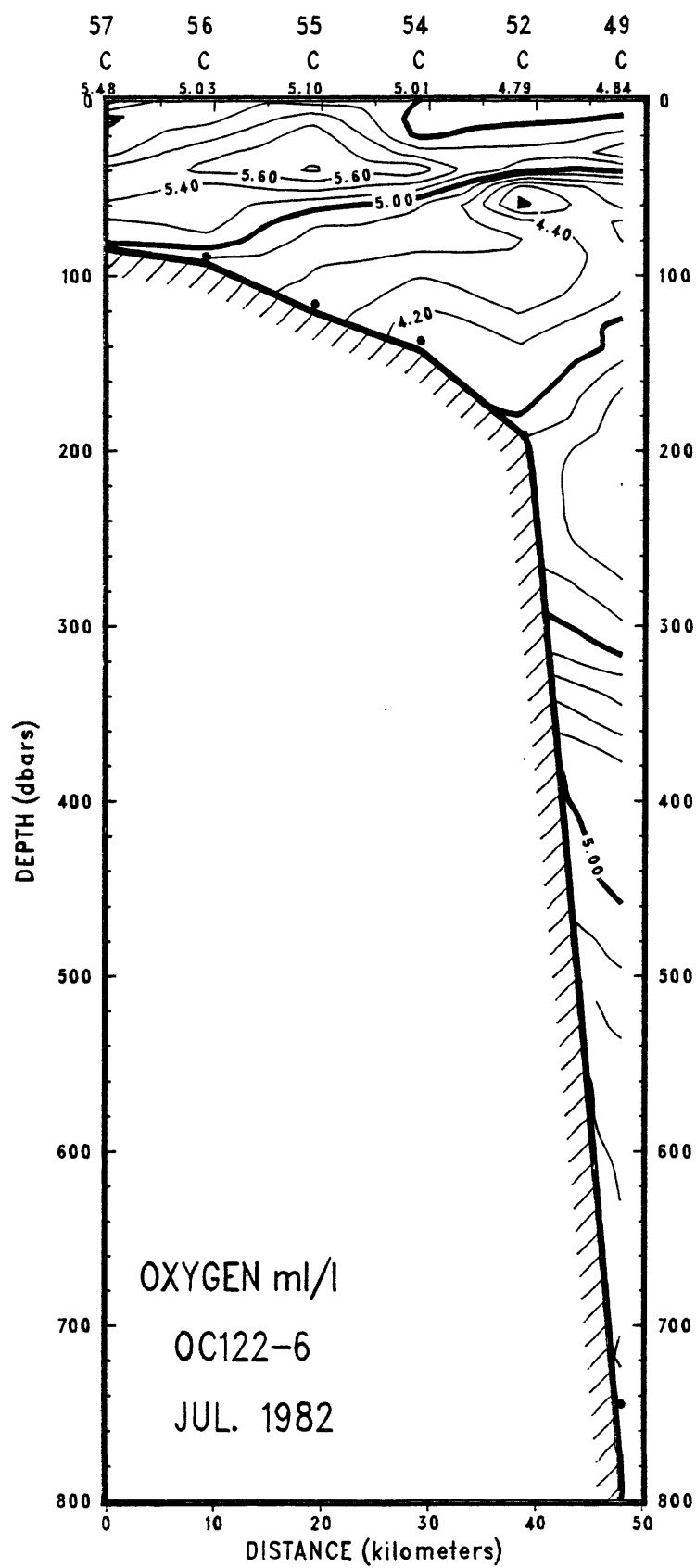


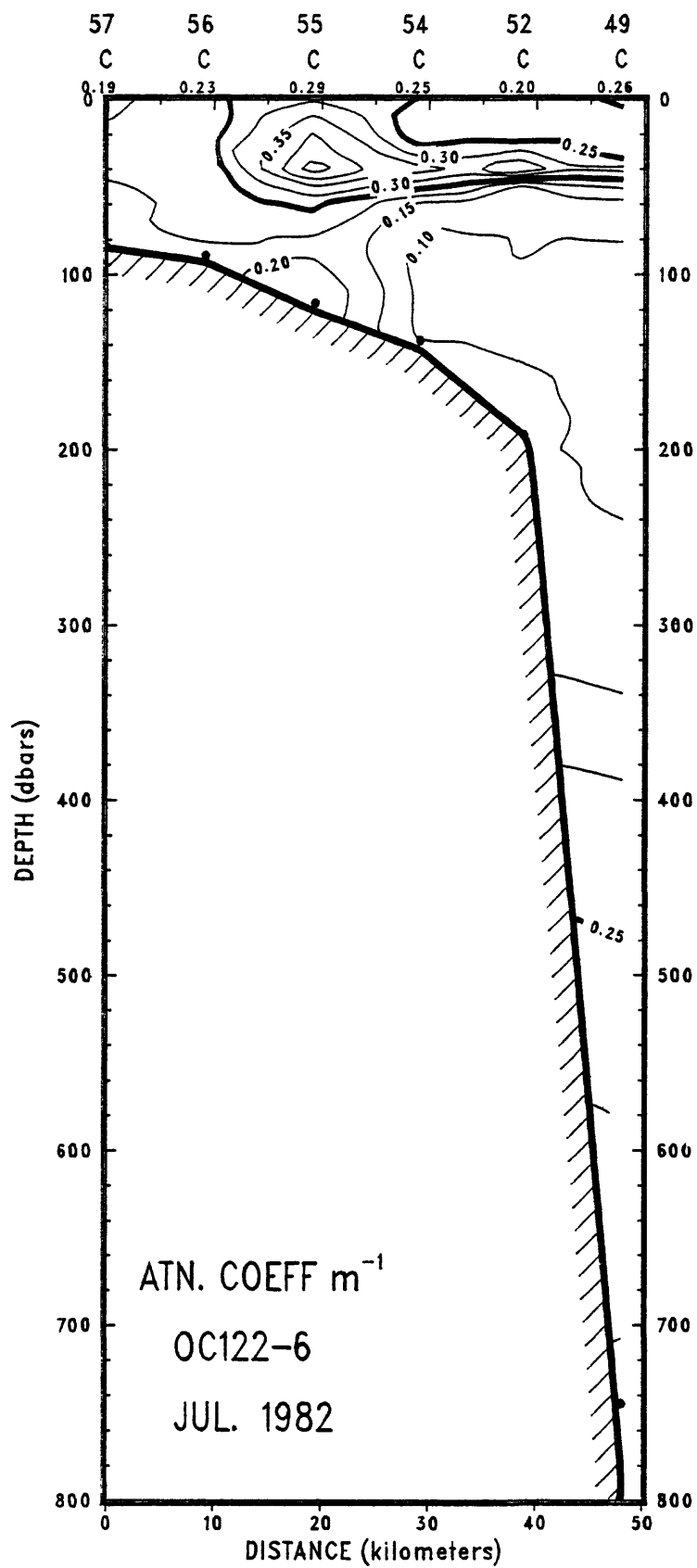


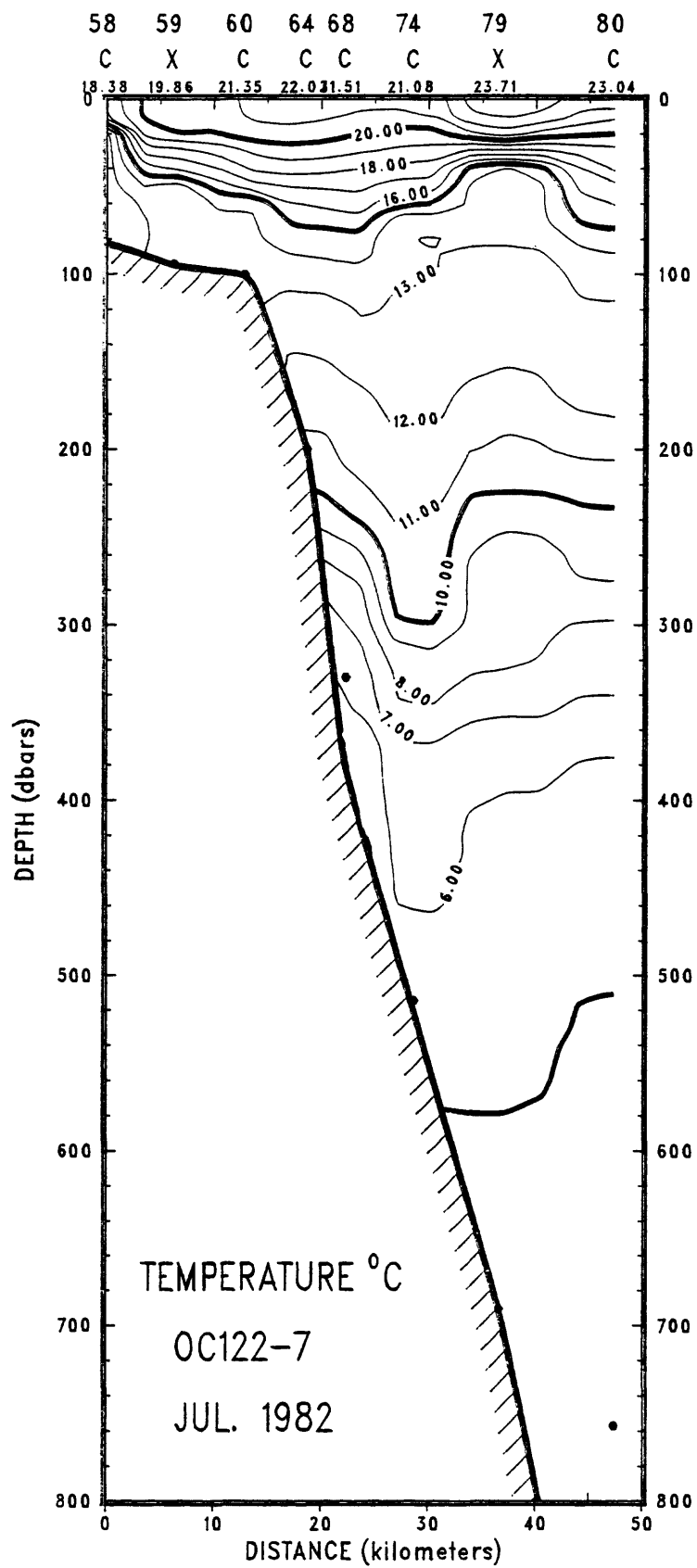


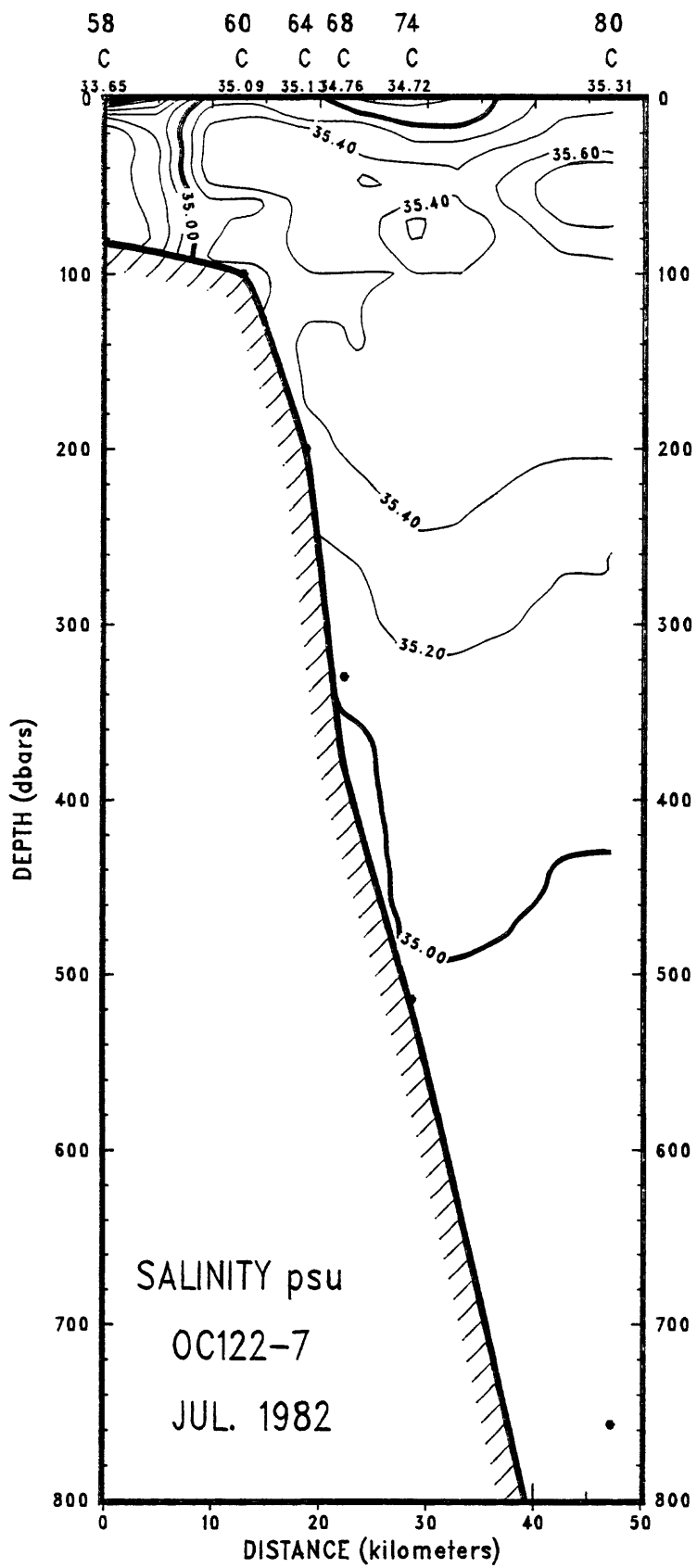


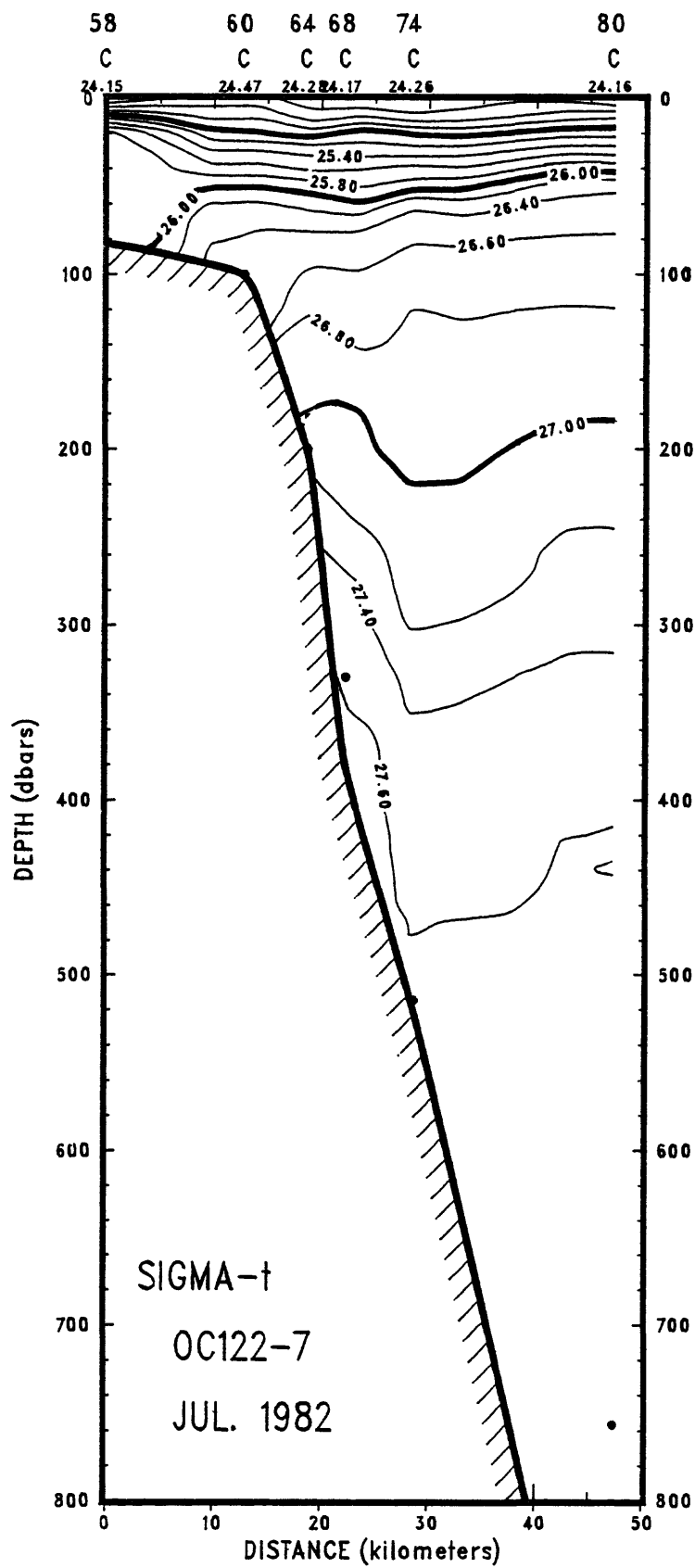


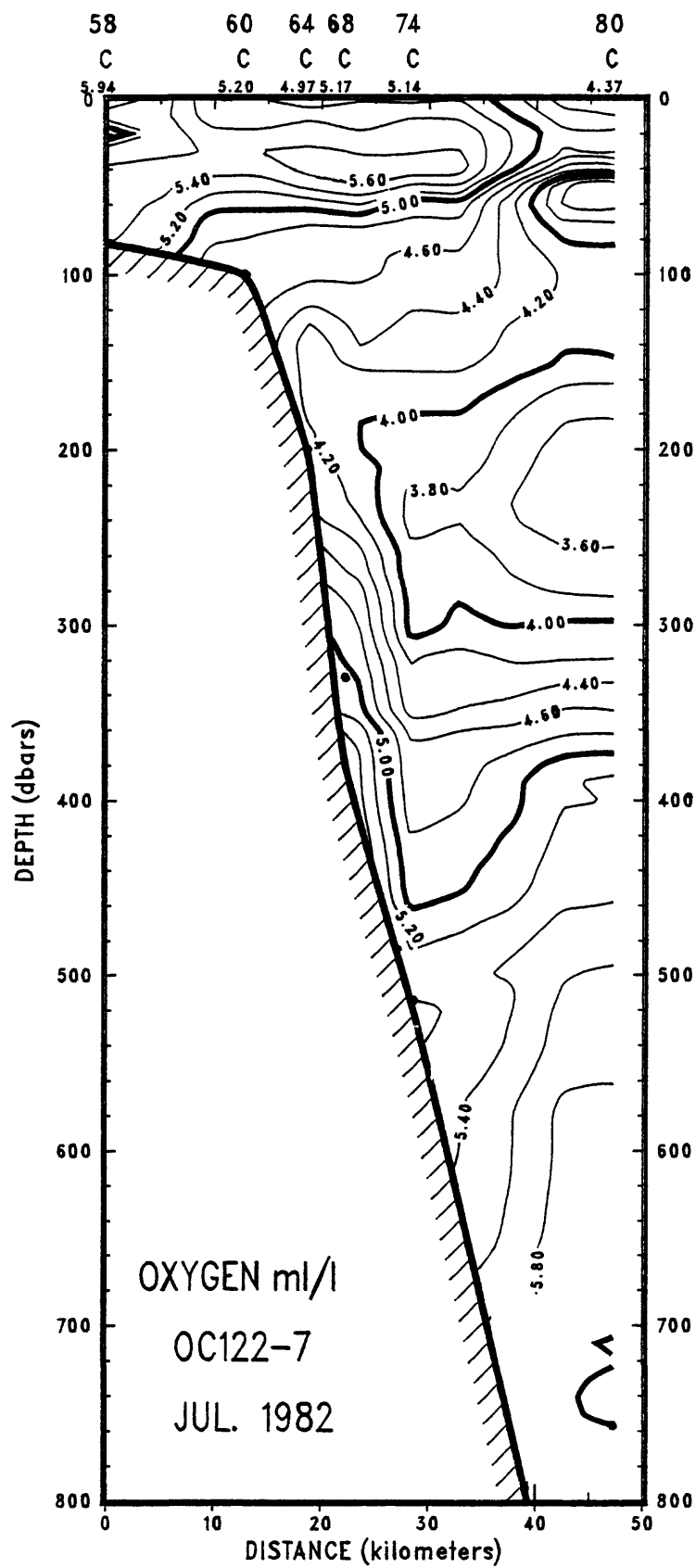


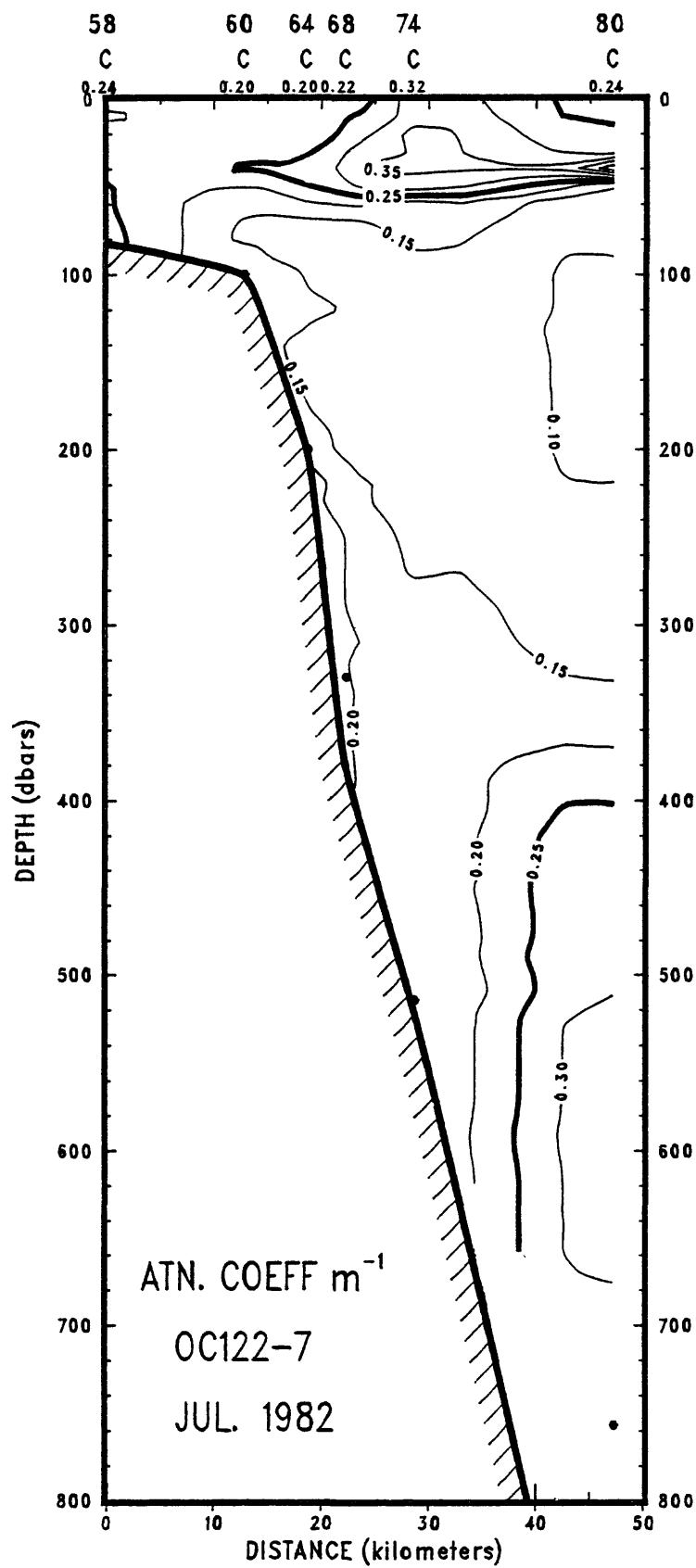


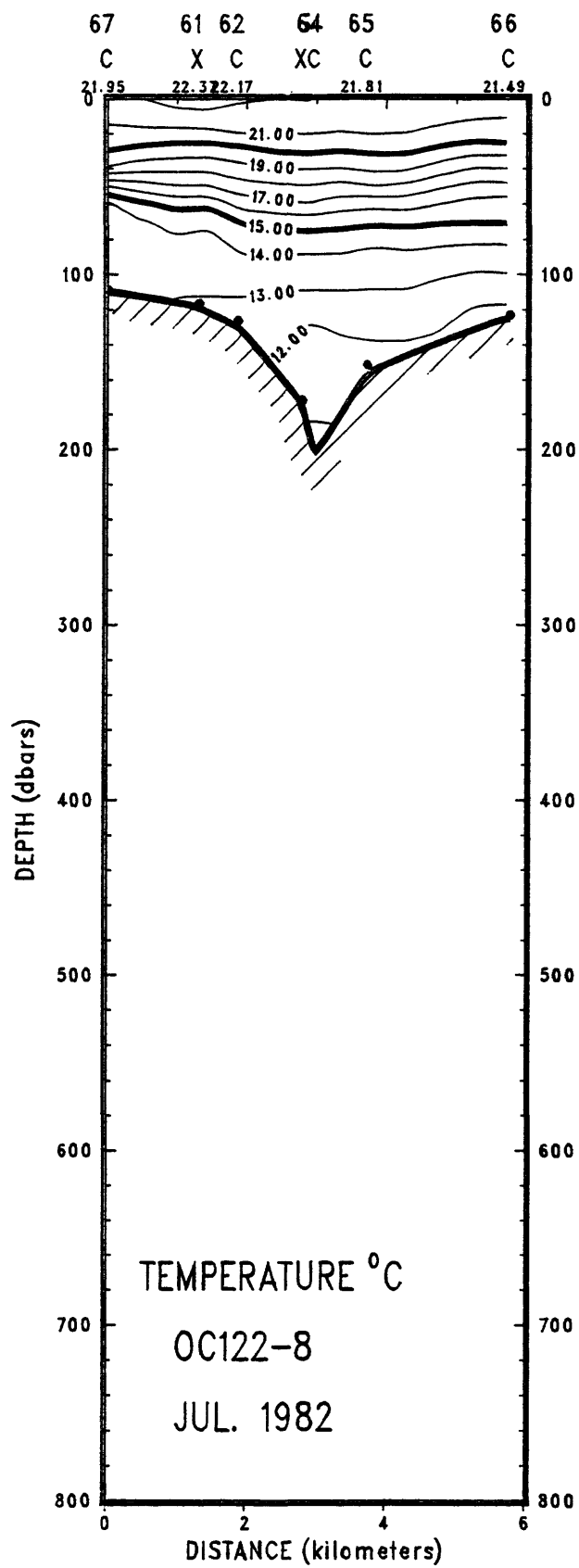


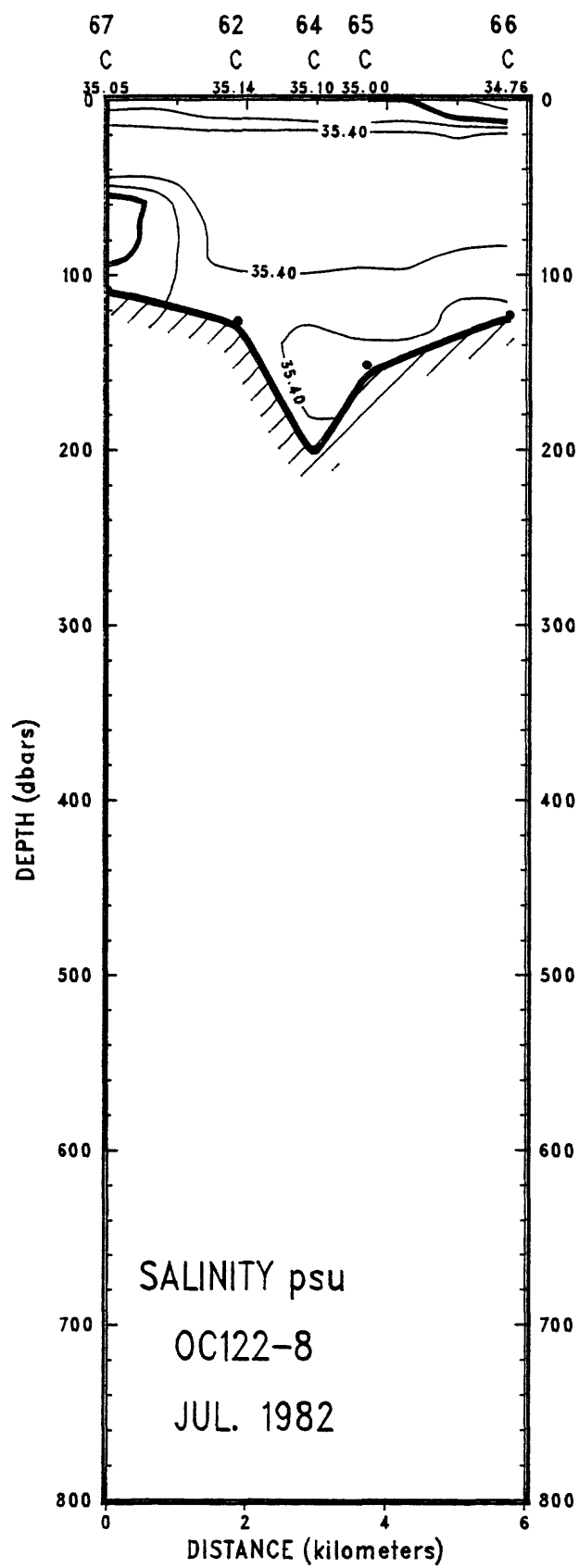


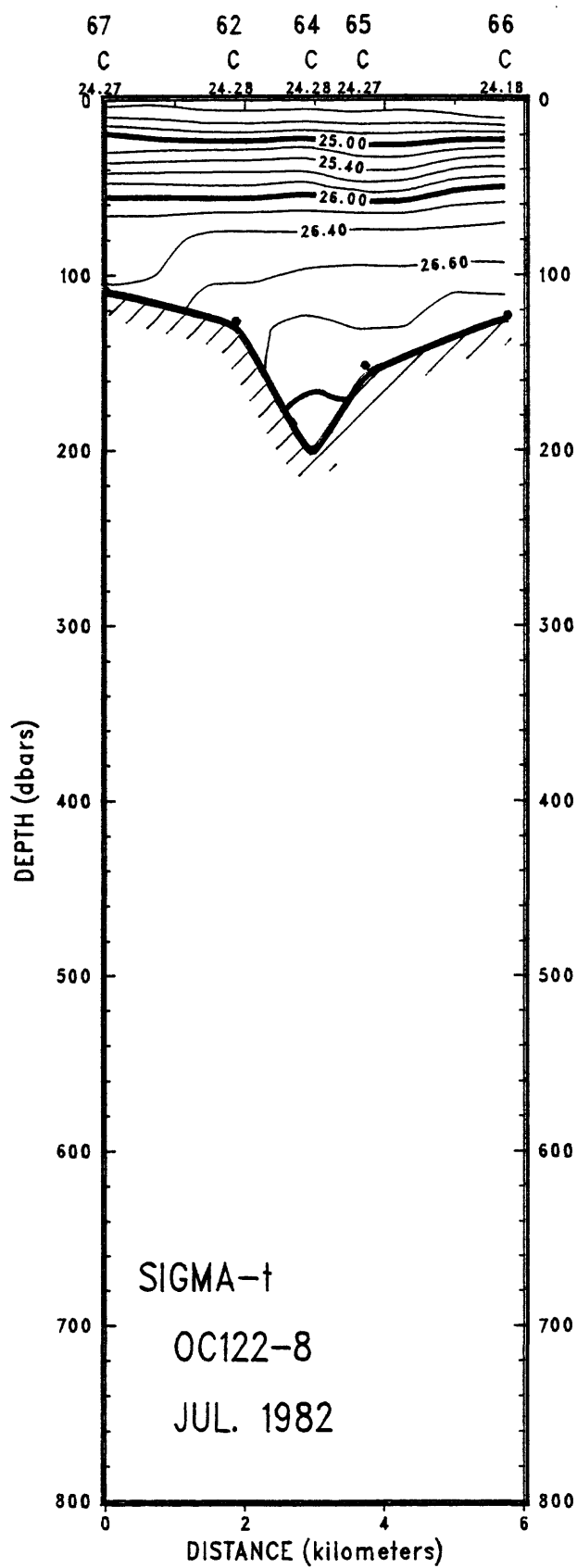


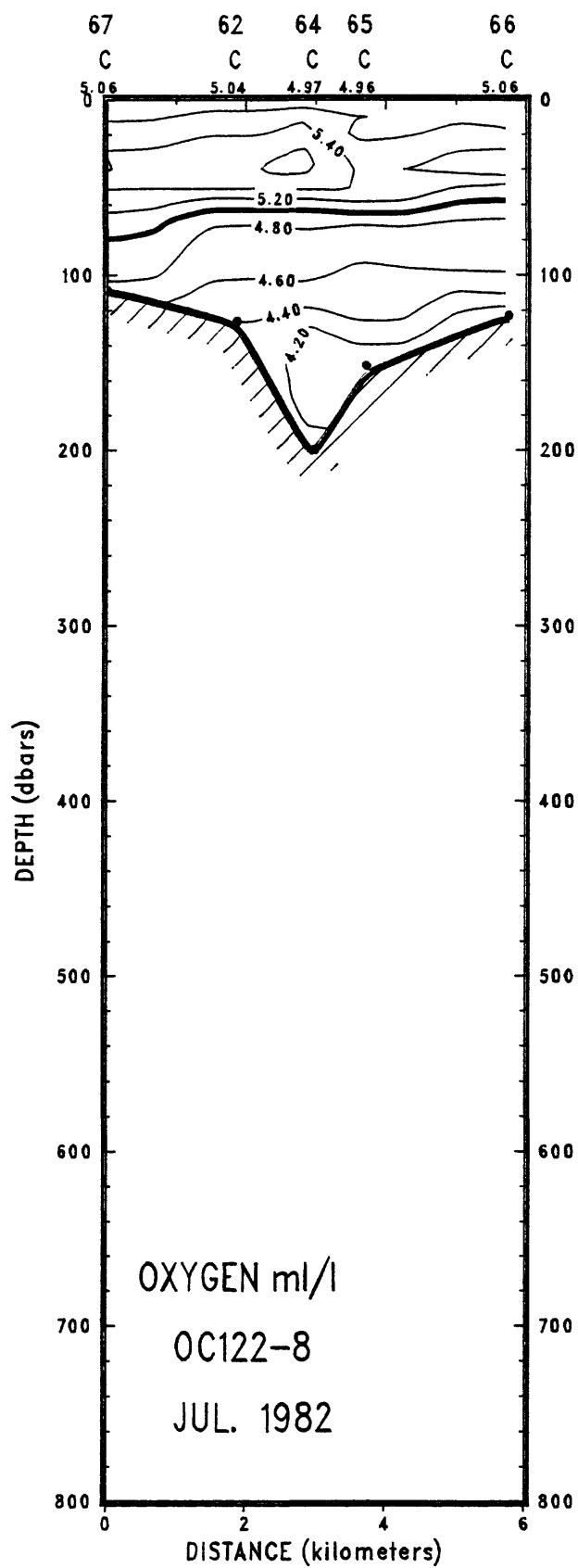


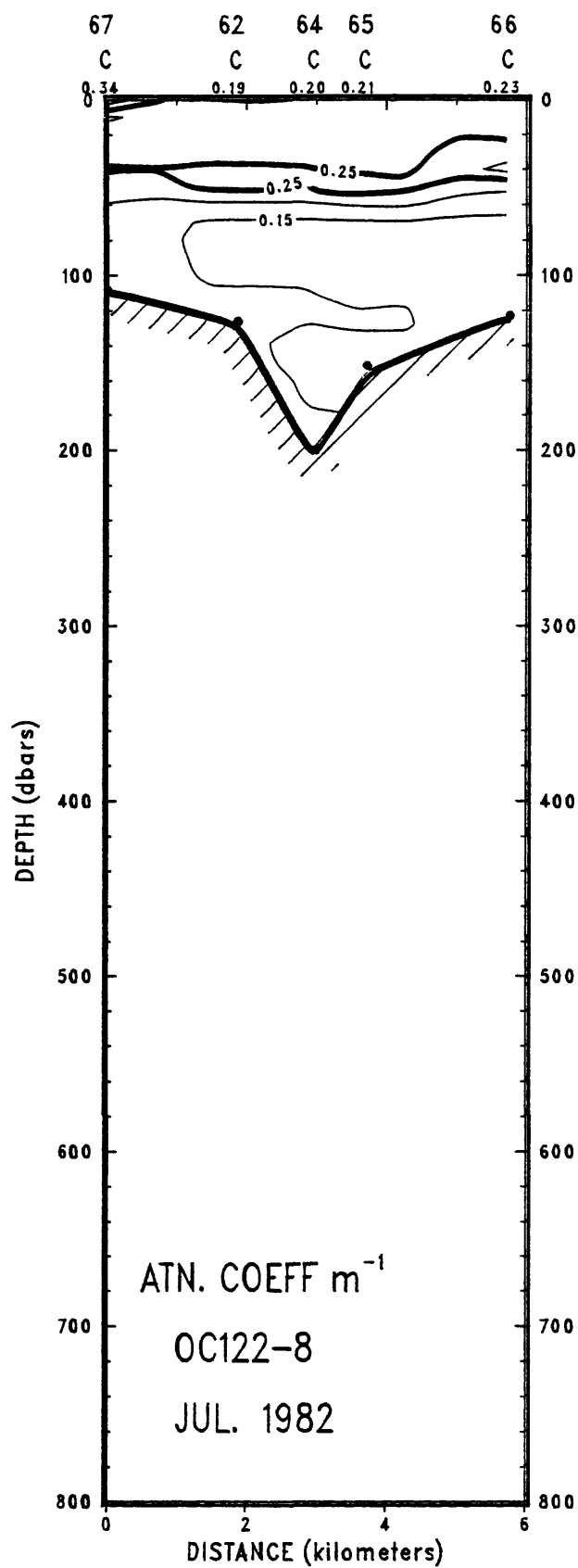


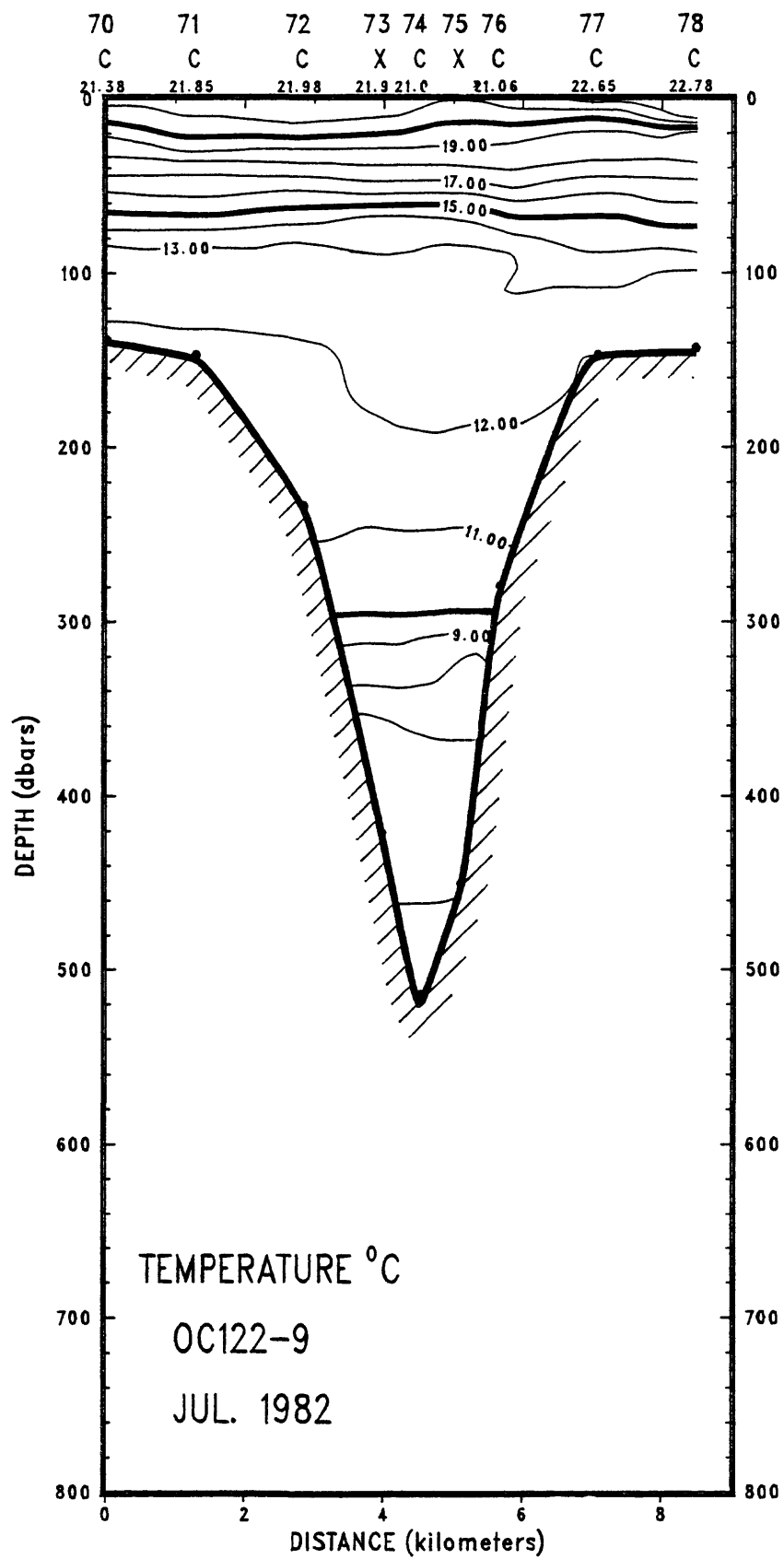


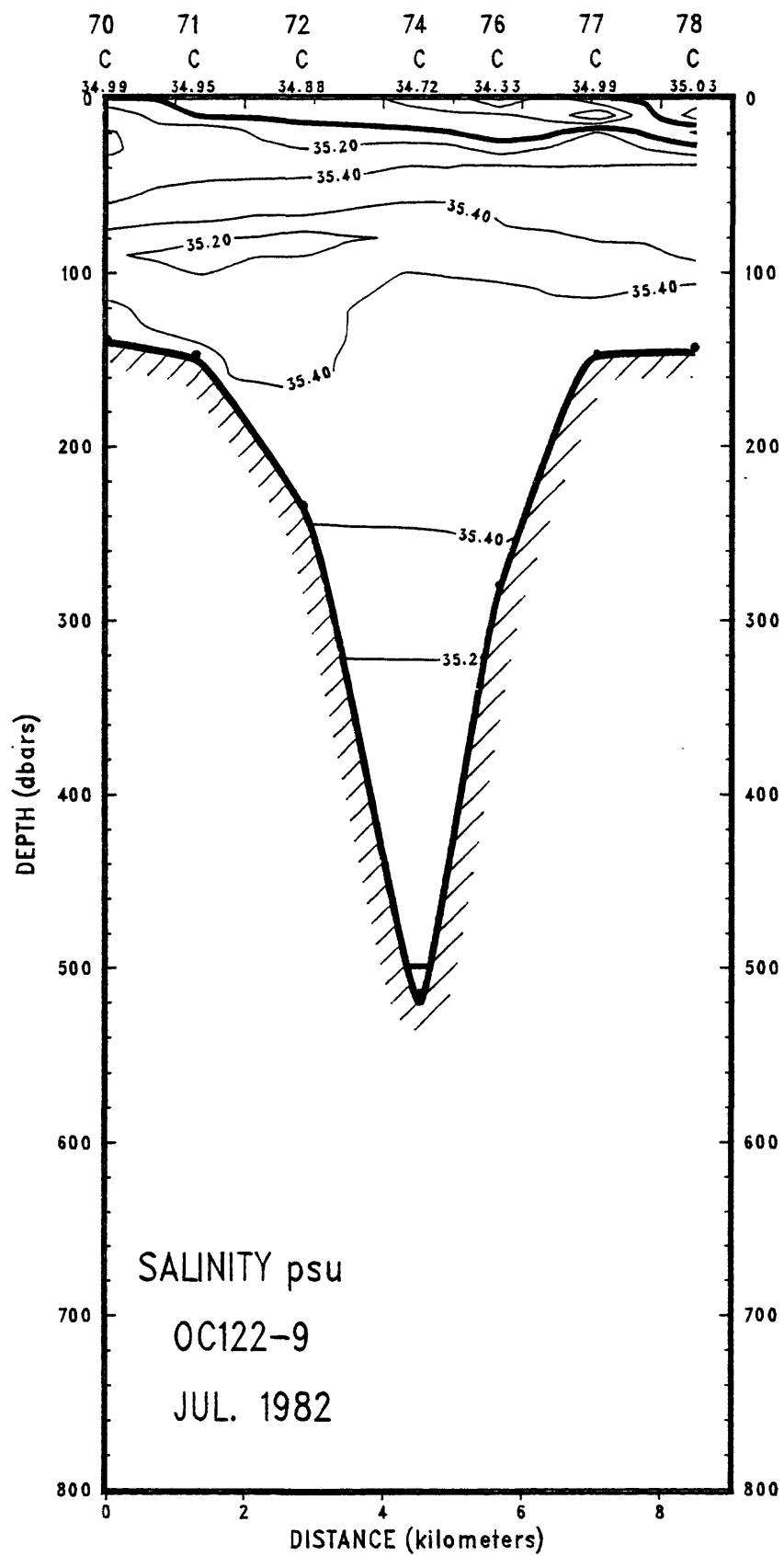


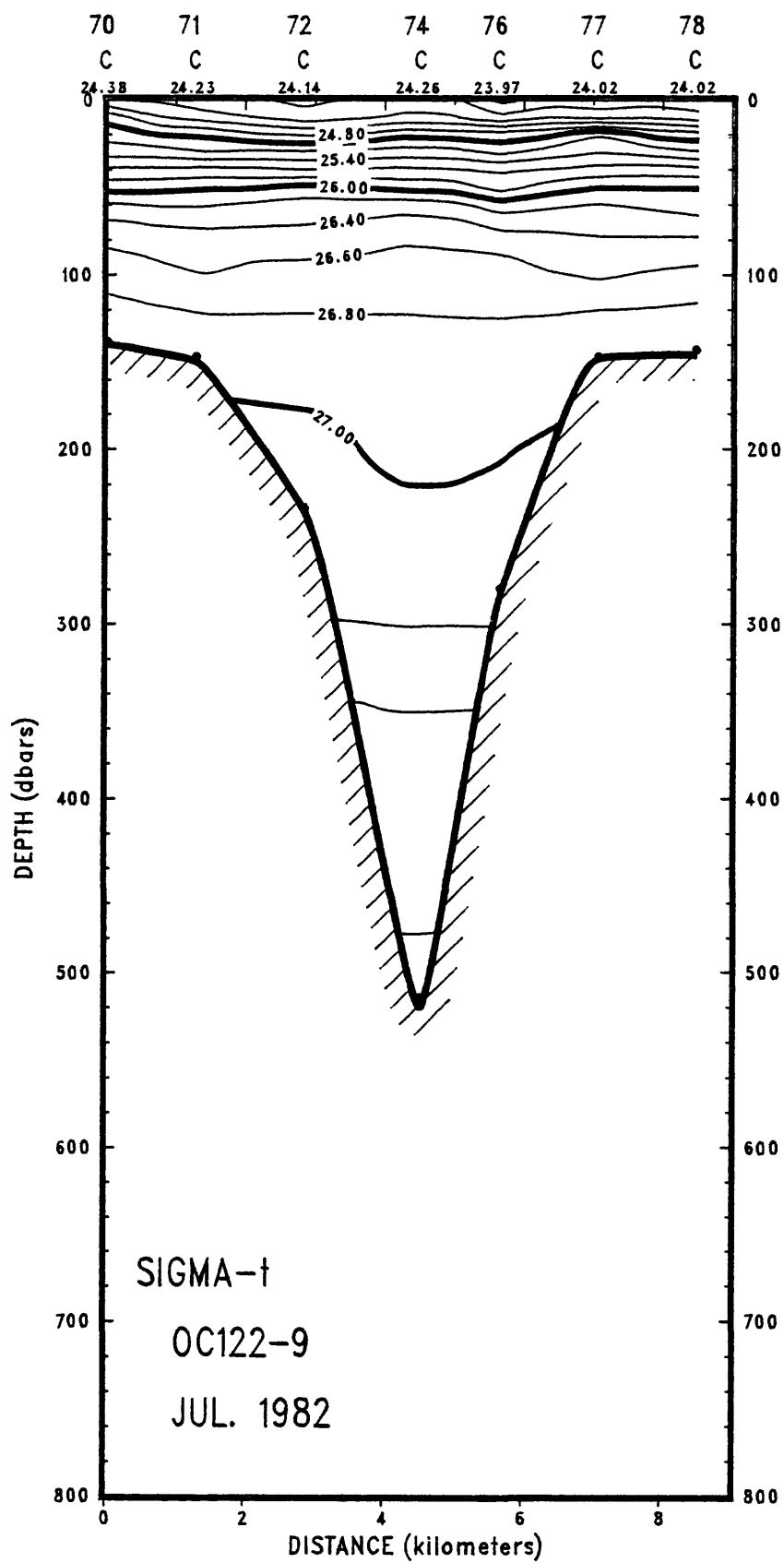


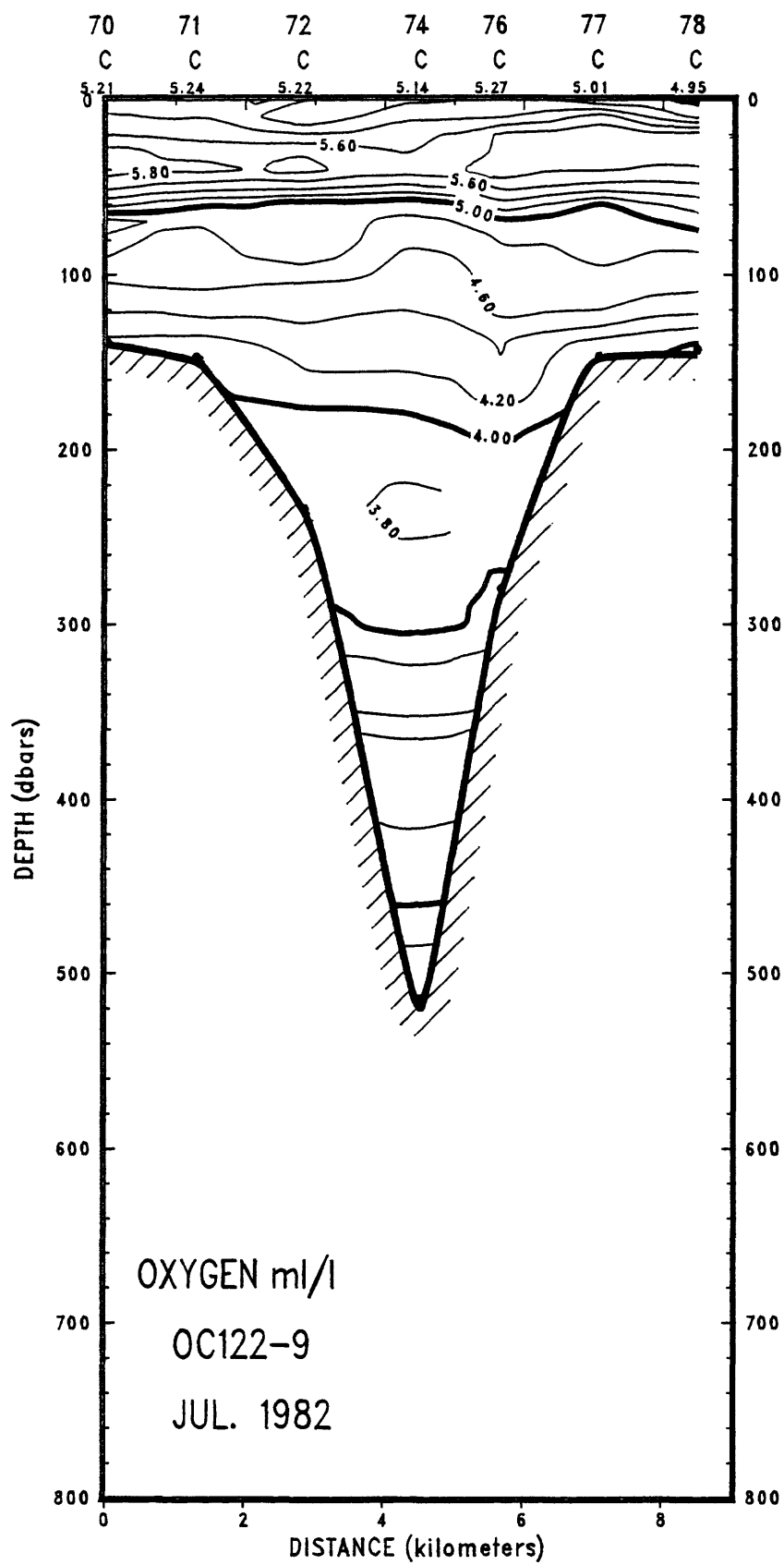


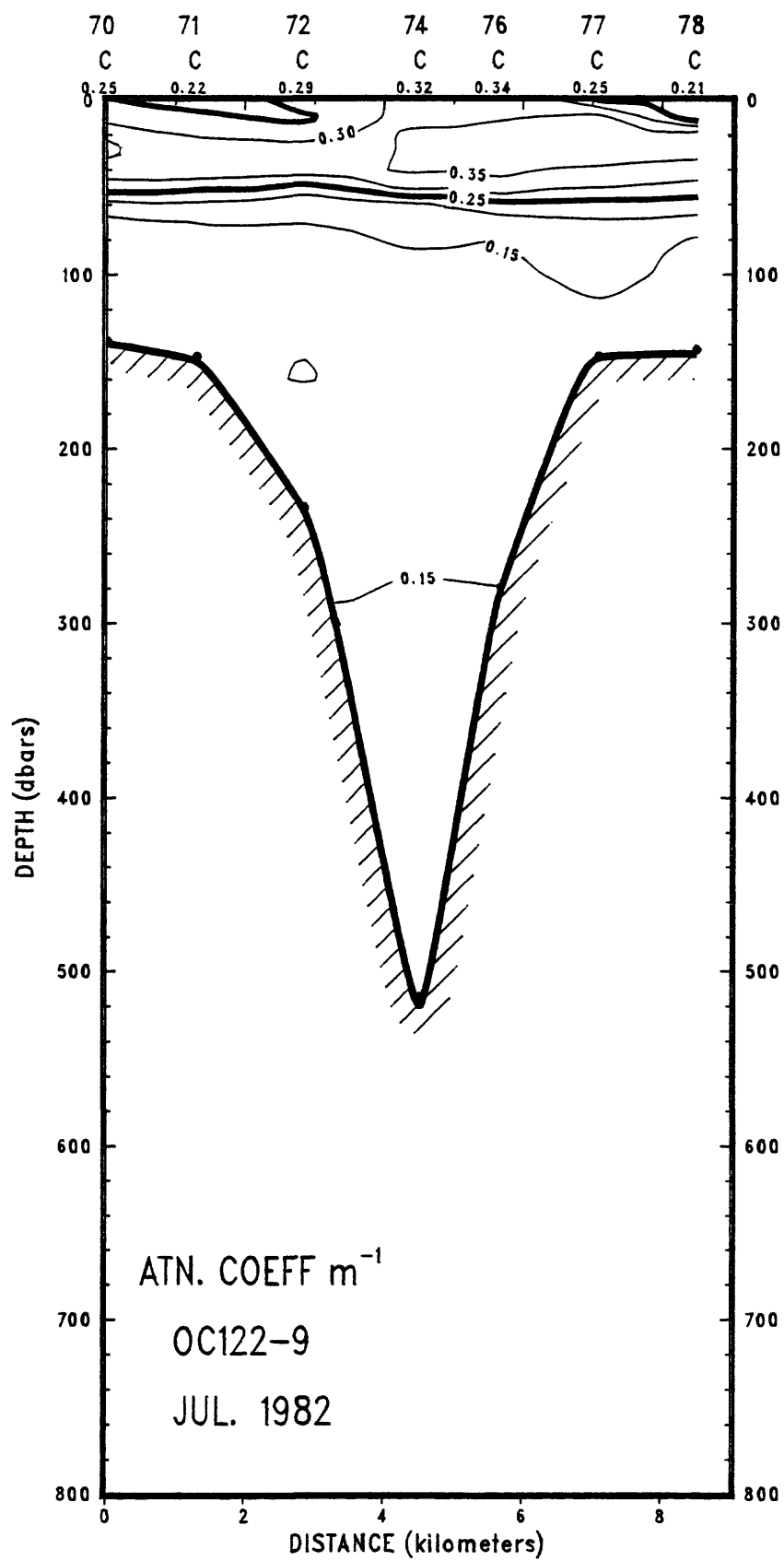


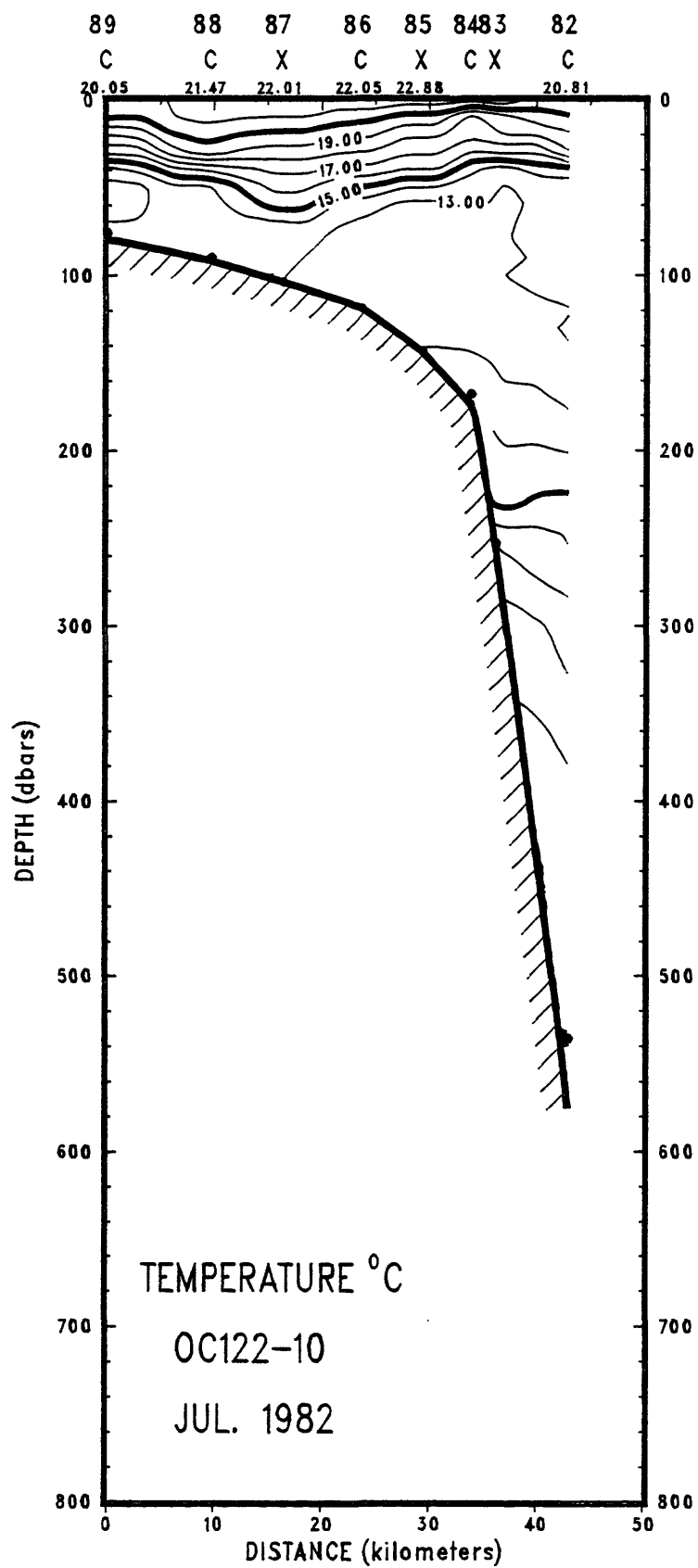


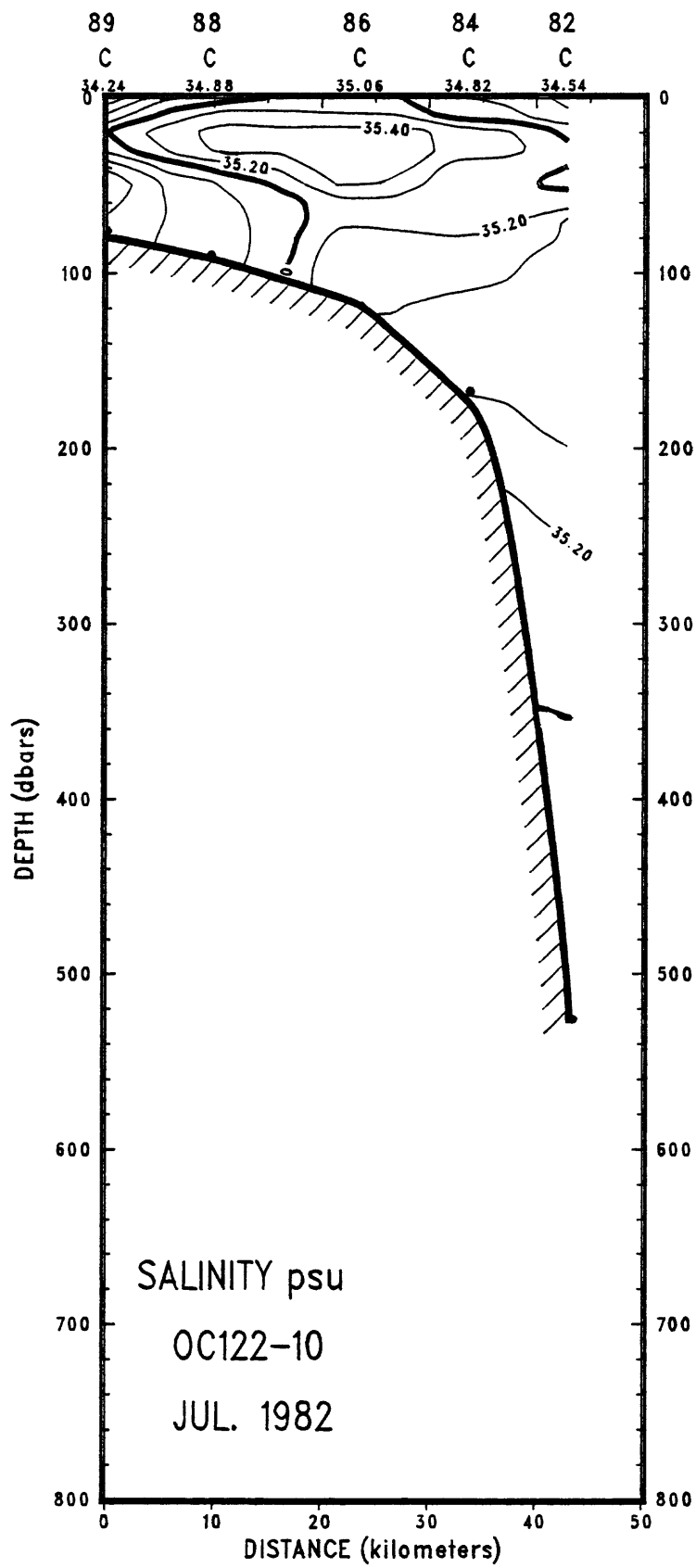


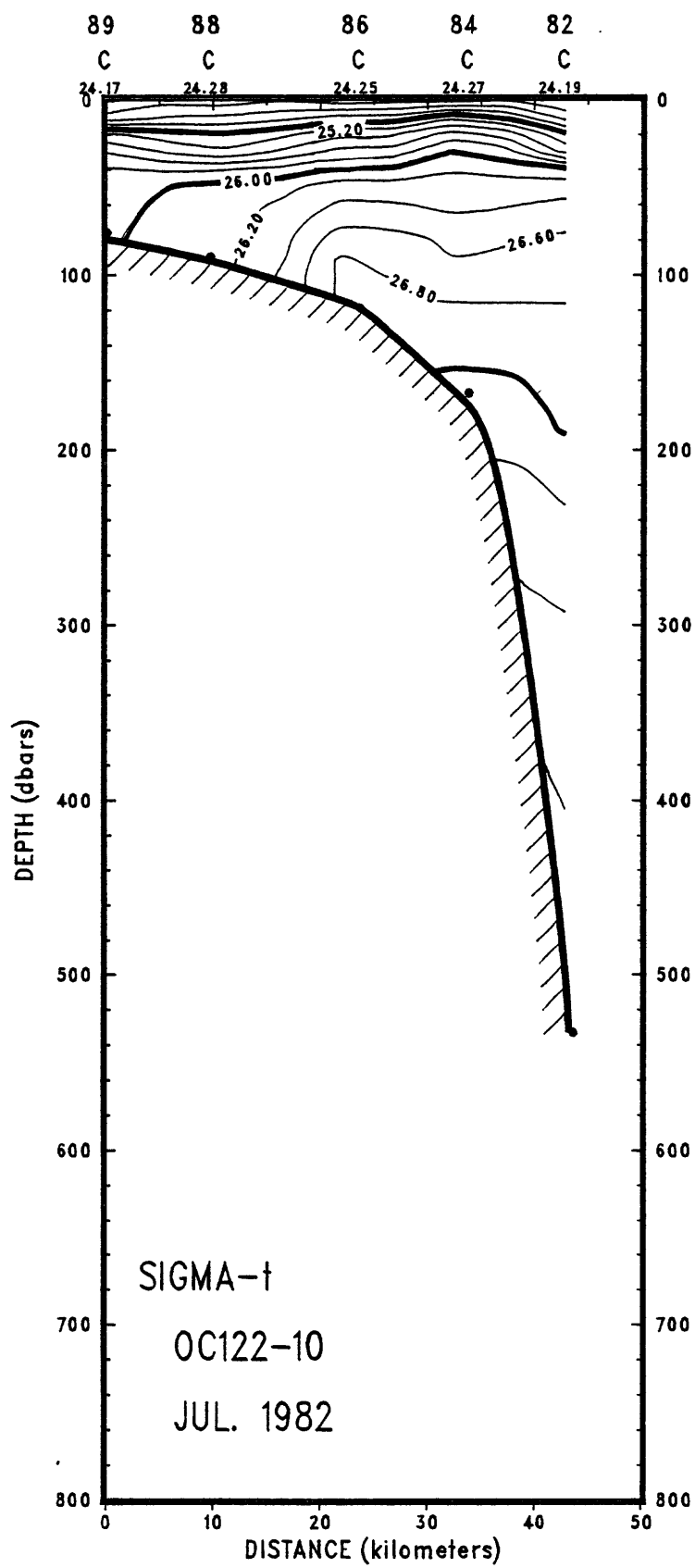


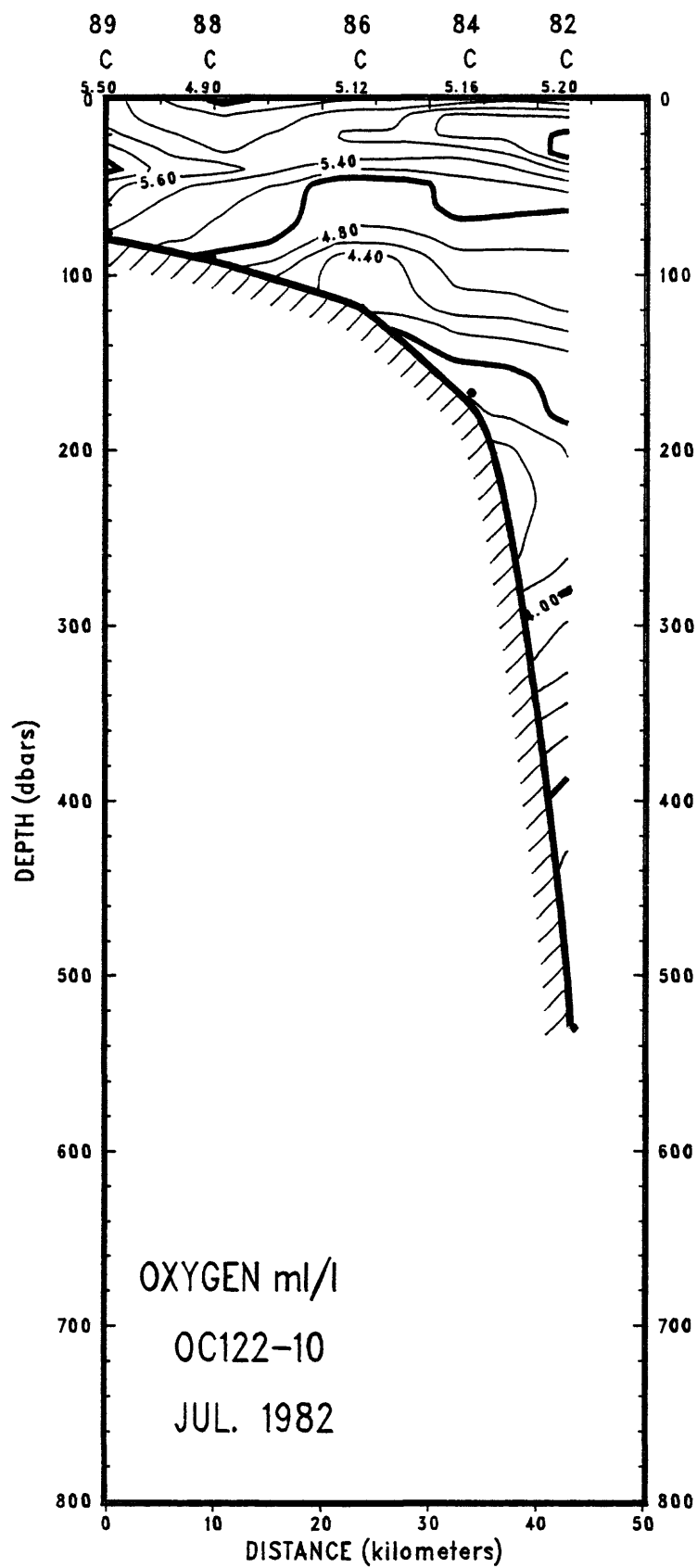


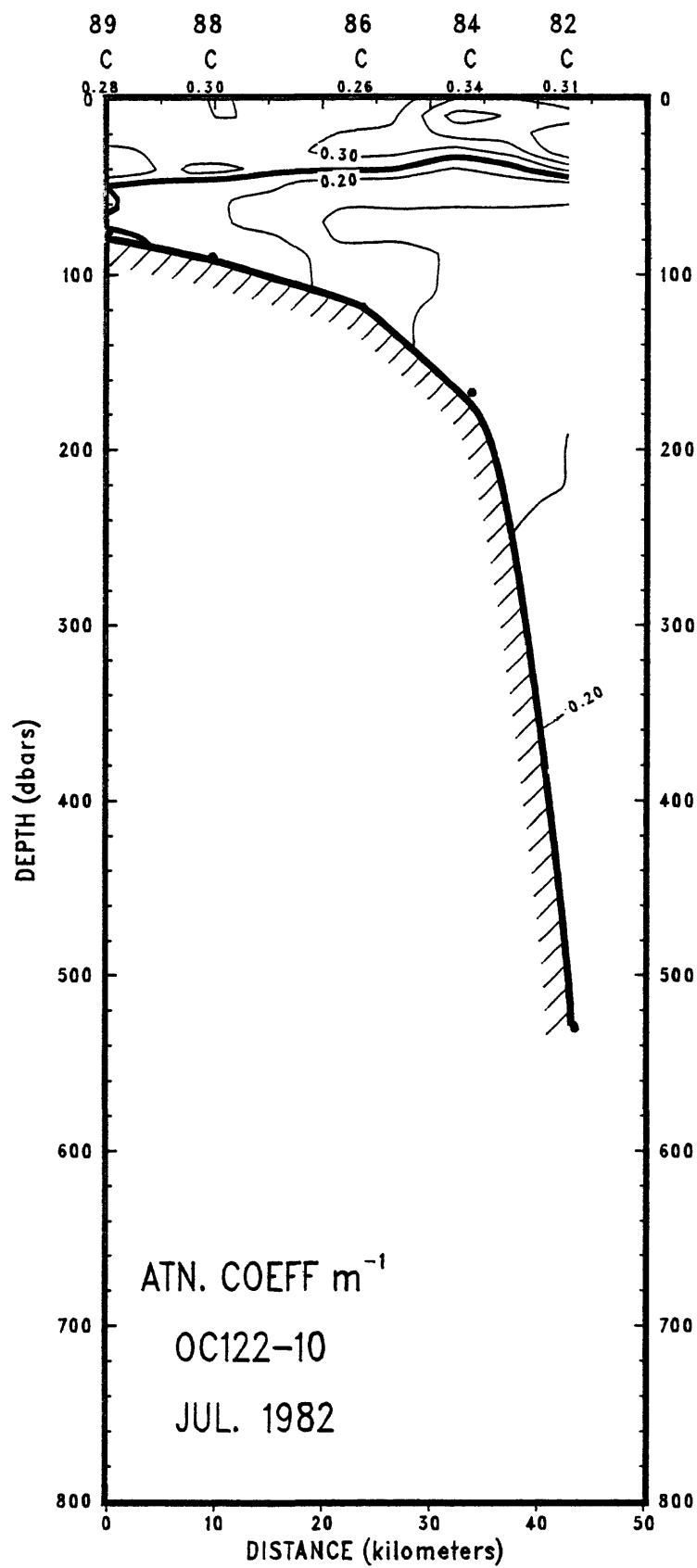






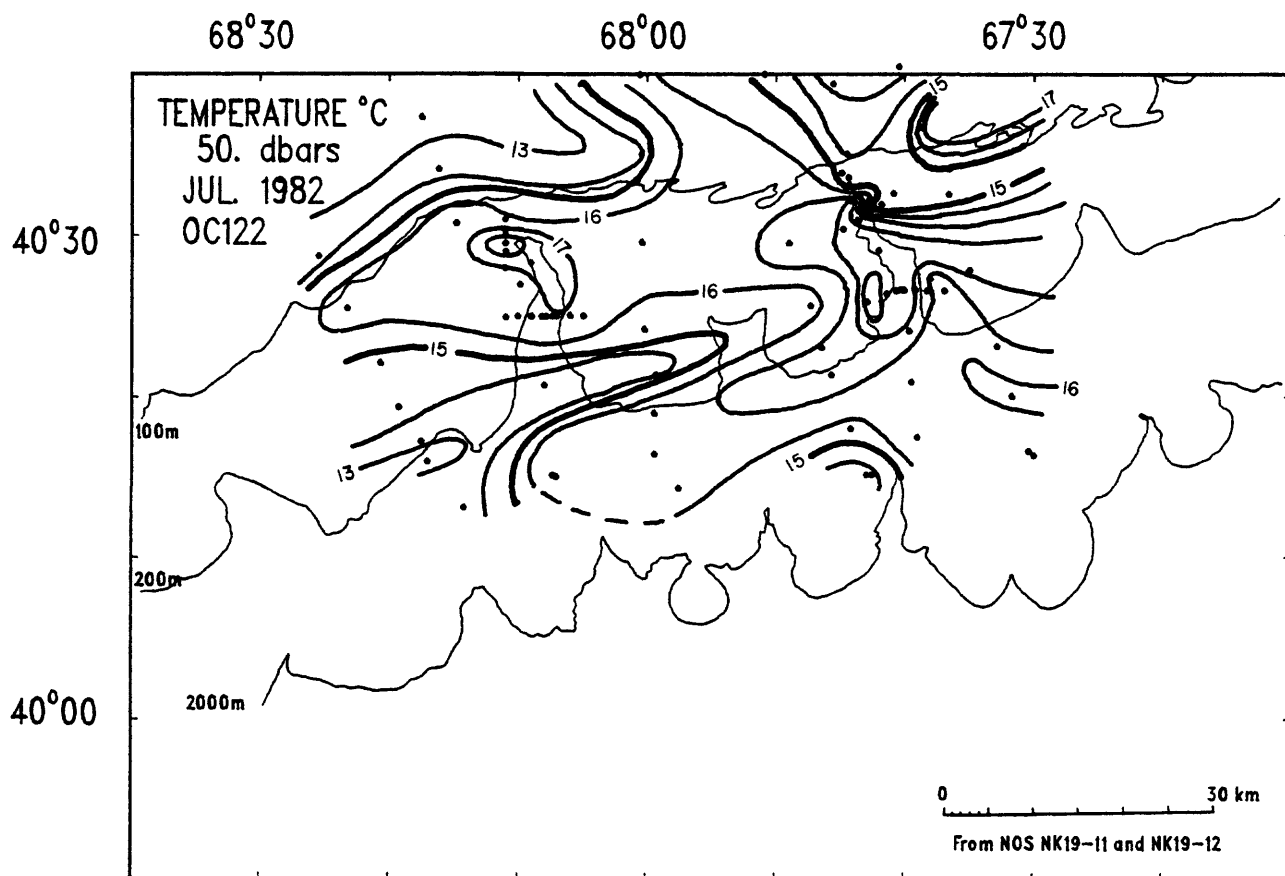
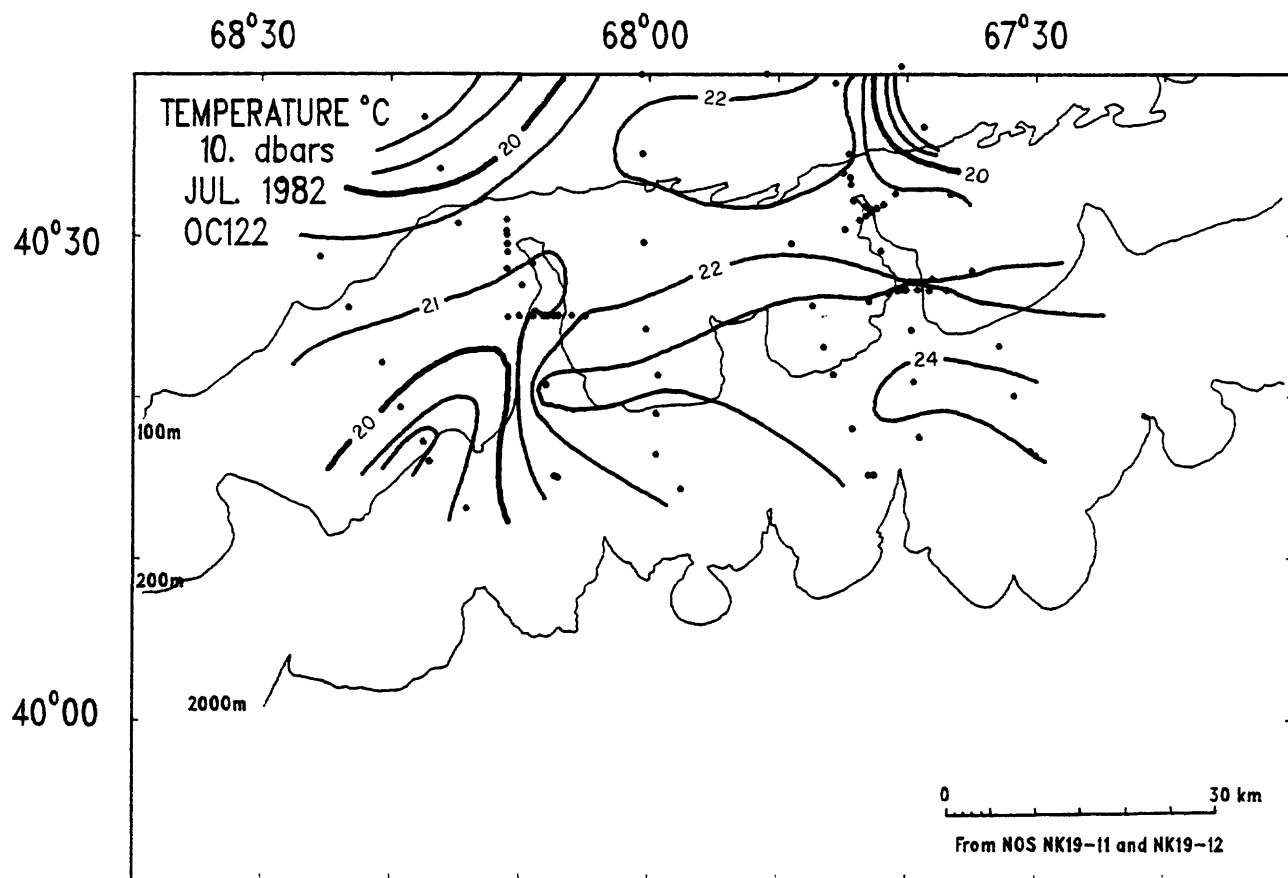


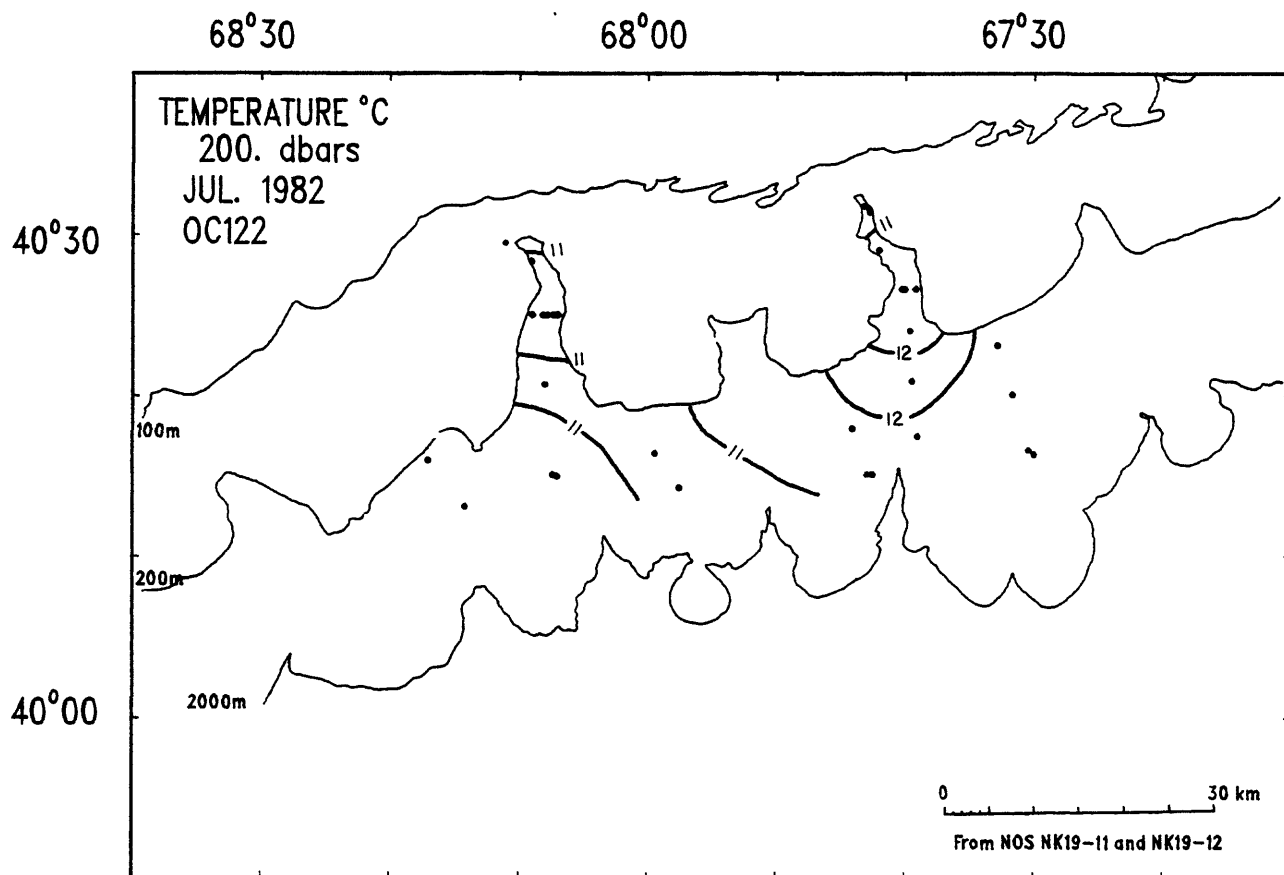
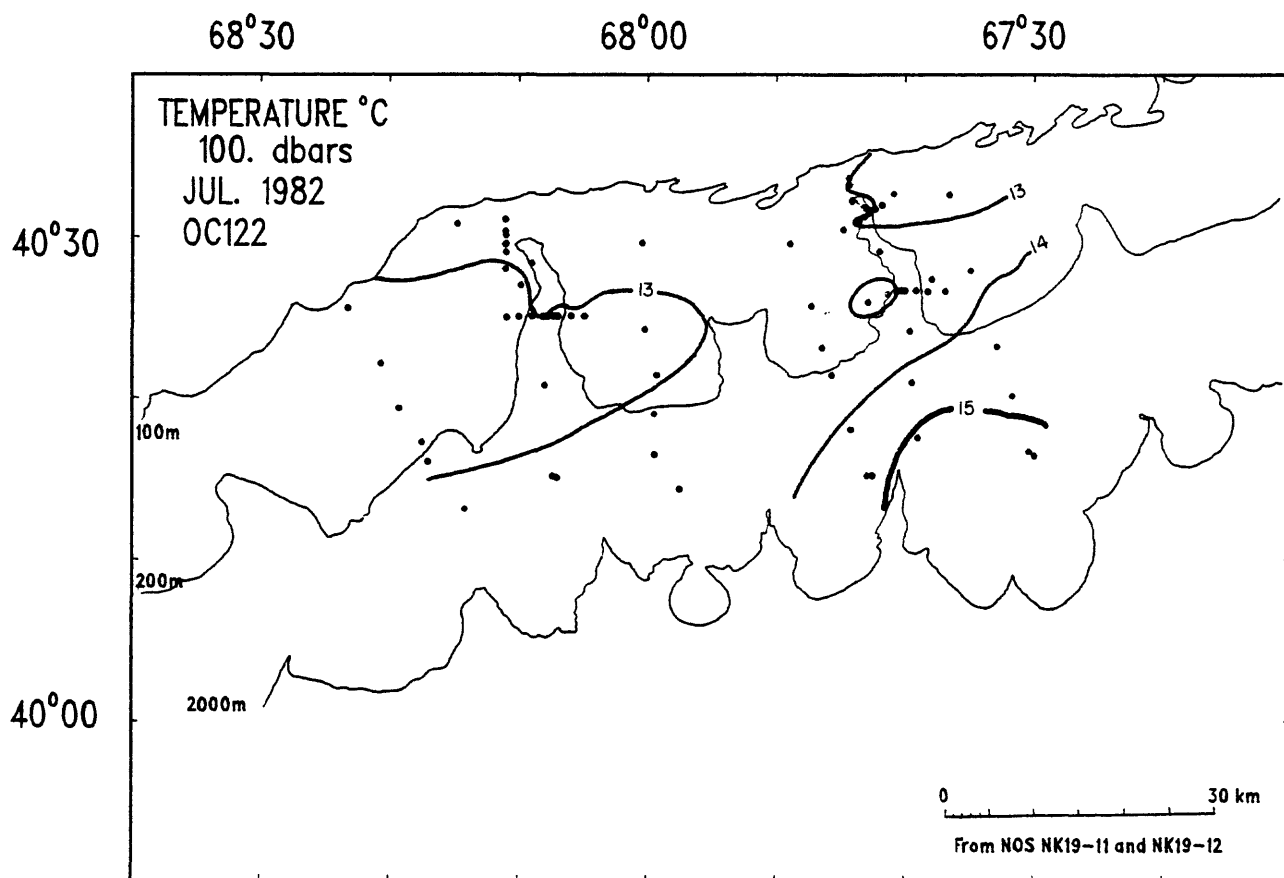


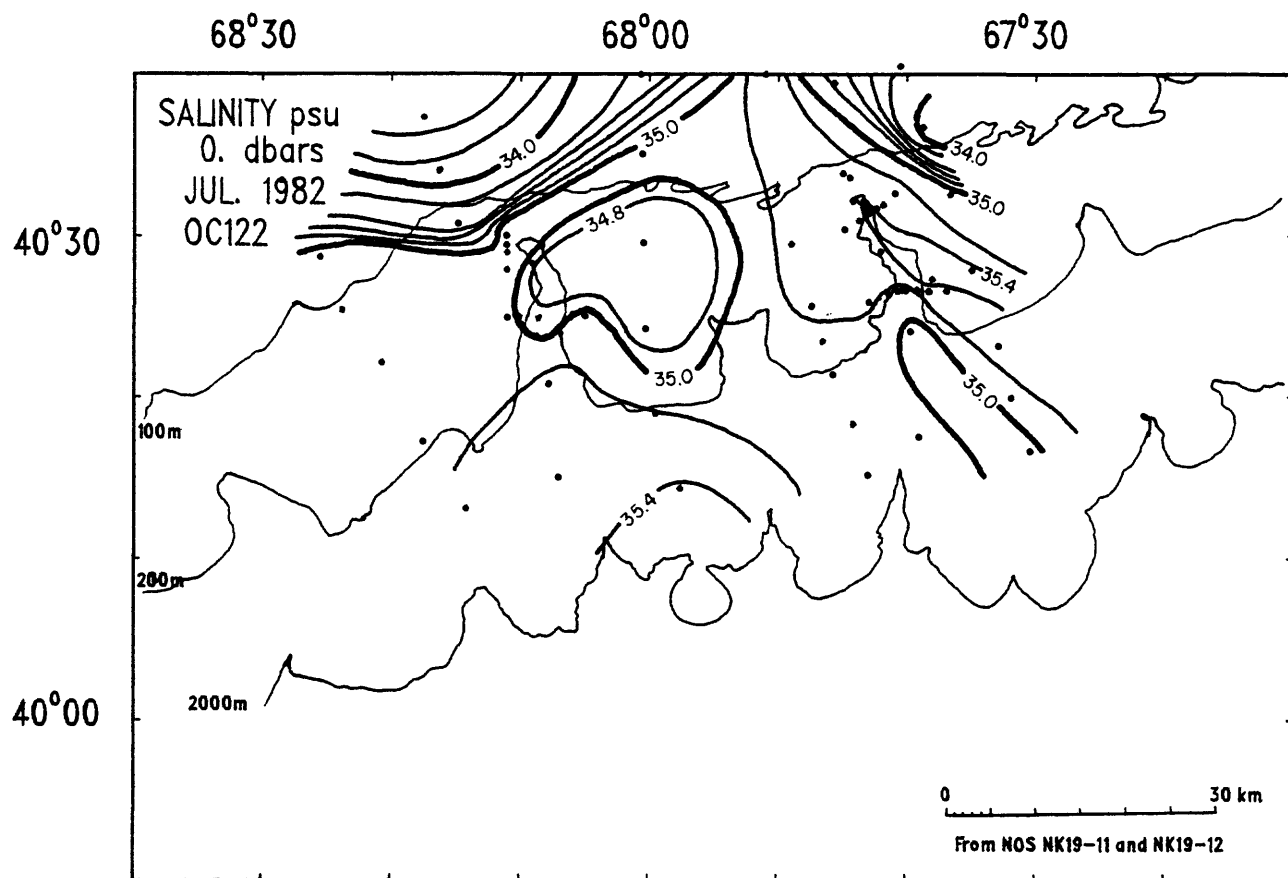


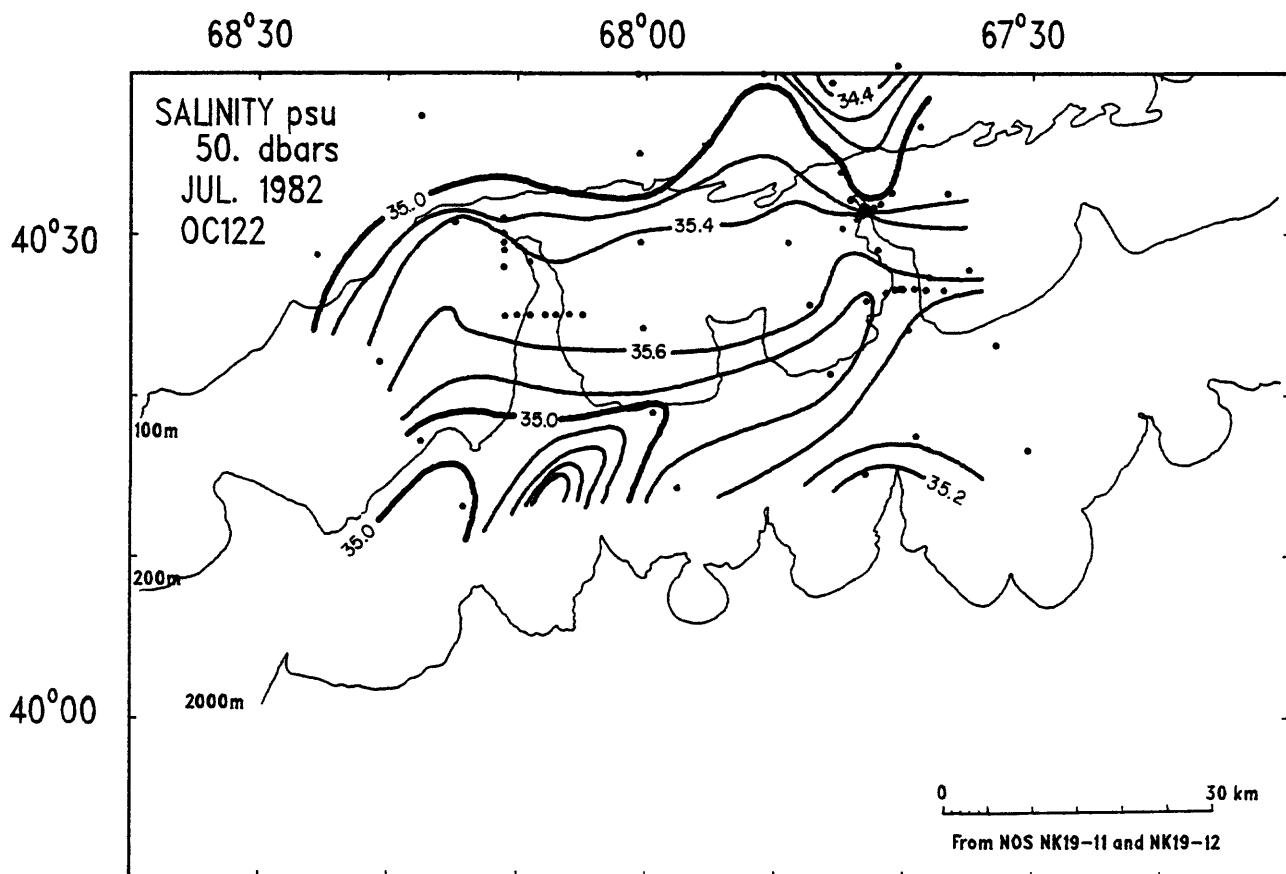
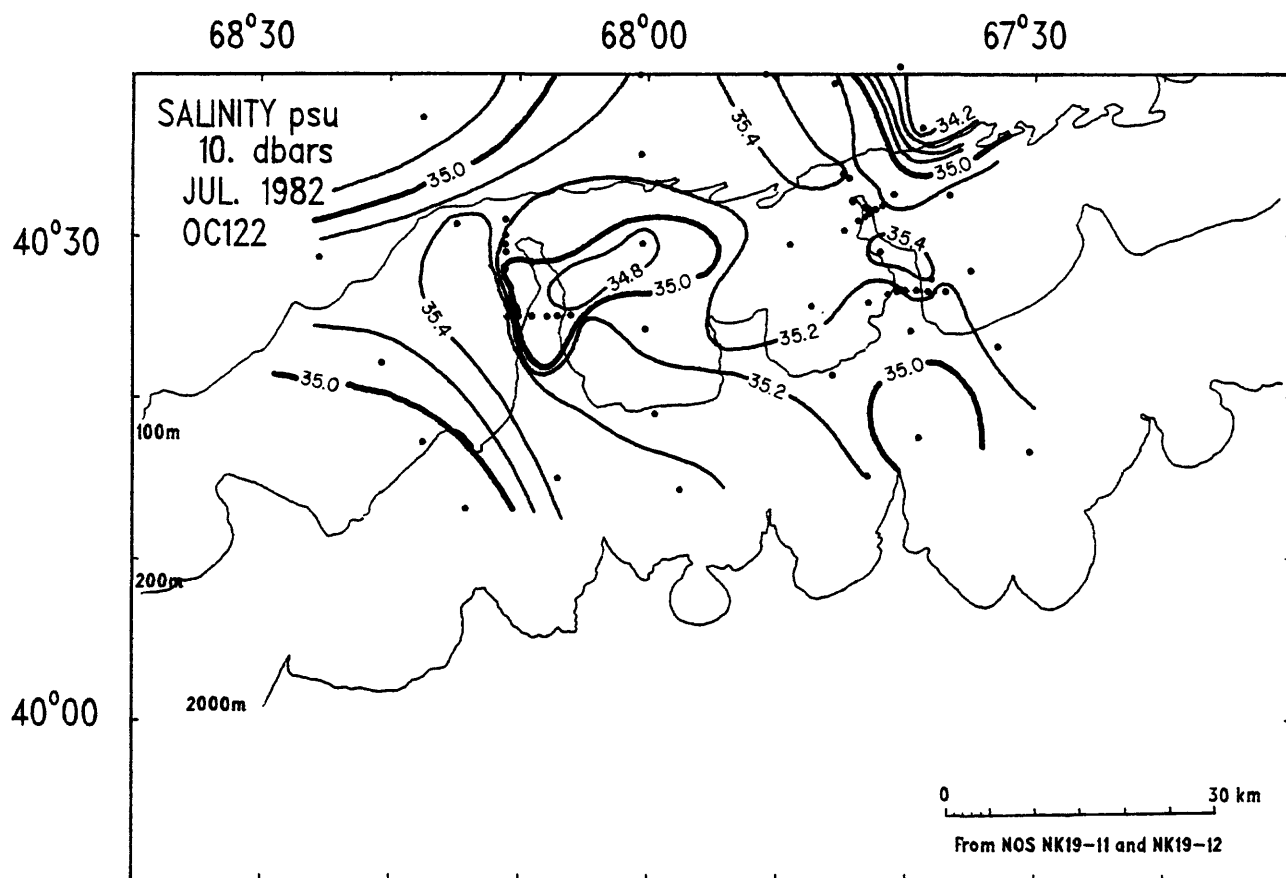
Horizontal sections

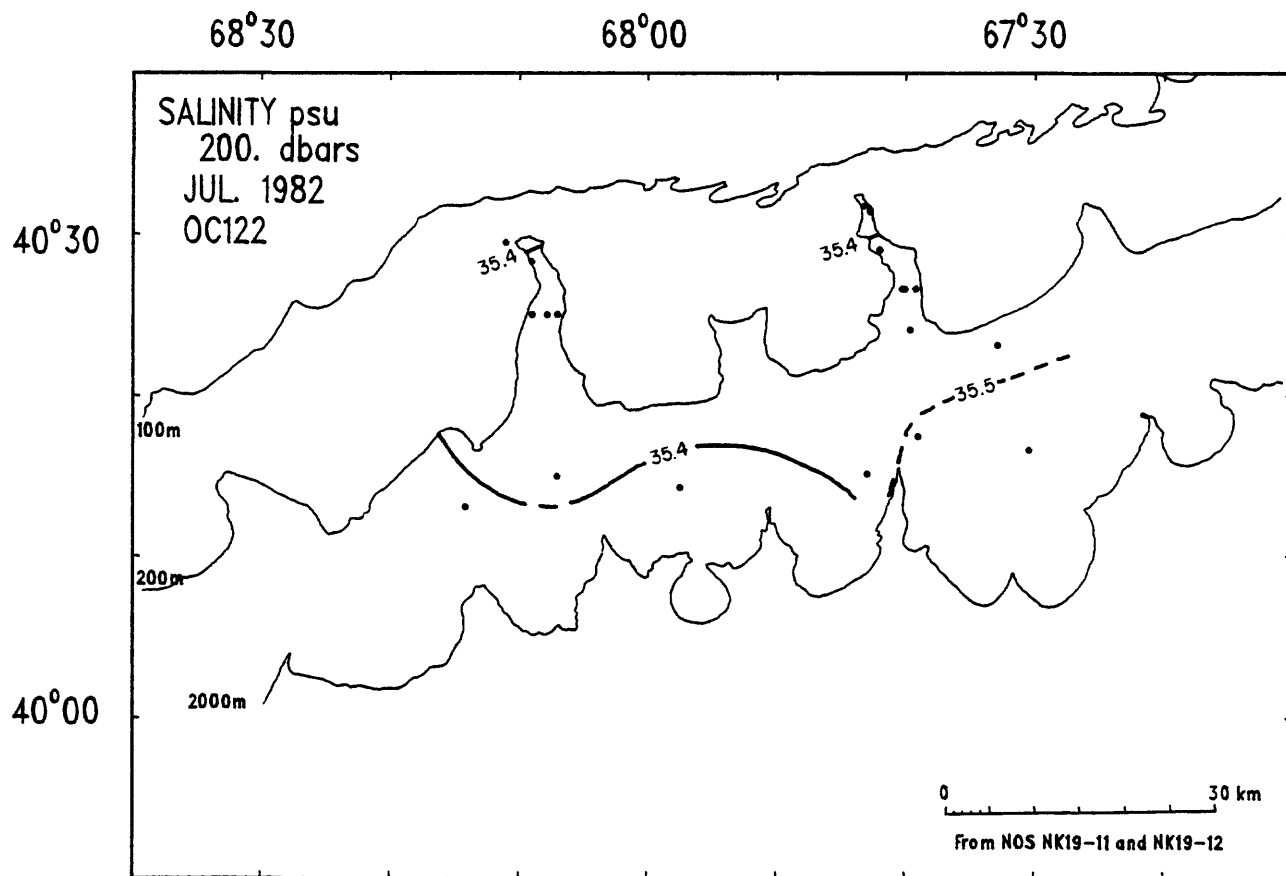
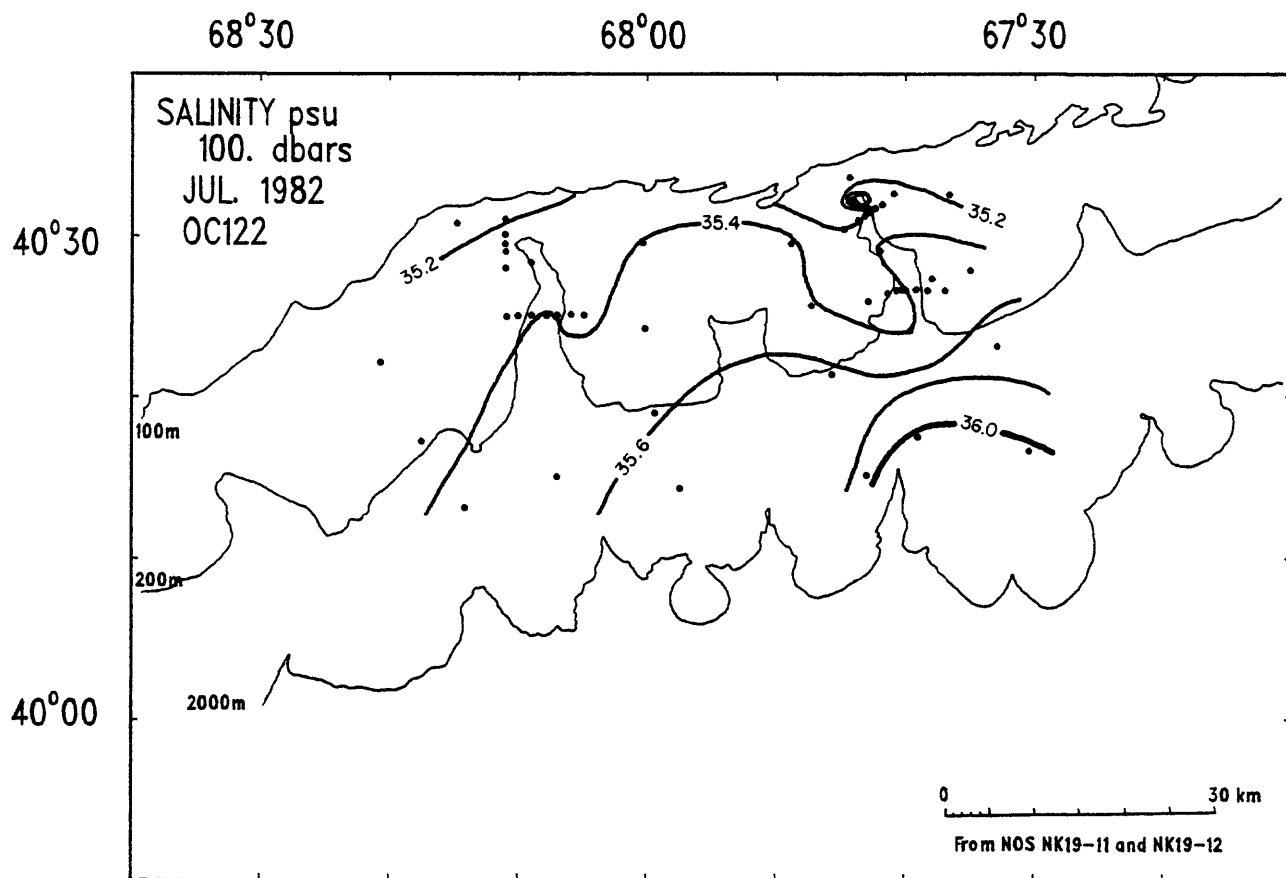
Horizontal sections were constructed on the 10-, 50-, 100-, and 200-dbar pressure surfaces for temperature, salinity, density, oxygen, and light attenuation. Surface values of phosphate, silicate, nitrate and ammonia were also contoured. Horizontal sections were made for the large region which includes Oceanographer and Lydonia Canyon and the smaller region centered around Lydonia Canyon. Dots indicate the location of stations that were used in contouring the section. All sections were contoured by hand due to the sparse data. Figures 14 to 18 encompass Oceanographer, Gilbert and Lydonia Canyons and figures 19 to 39 show an enlargement of the area around just Lydonia Canyon.

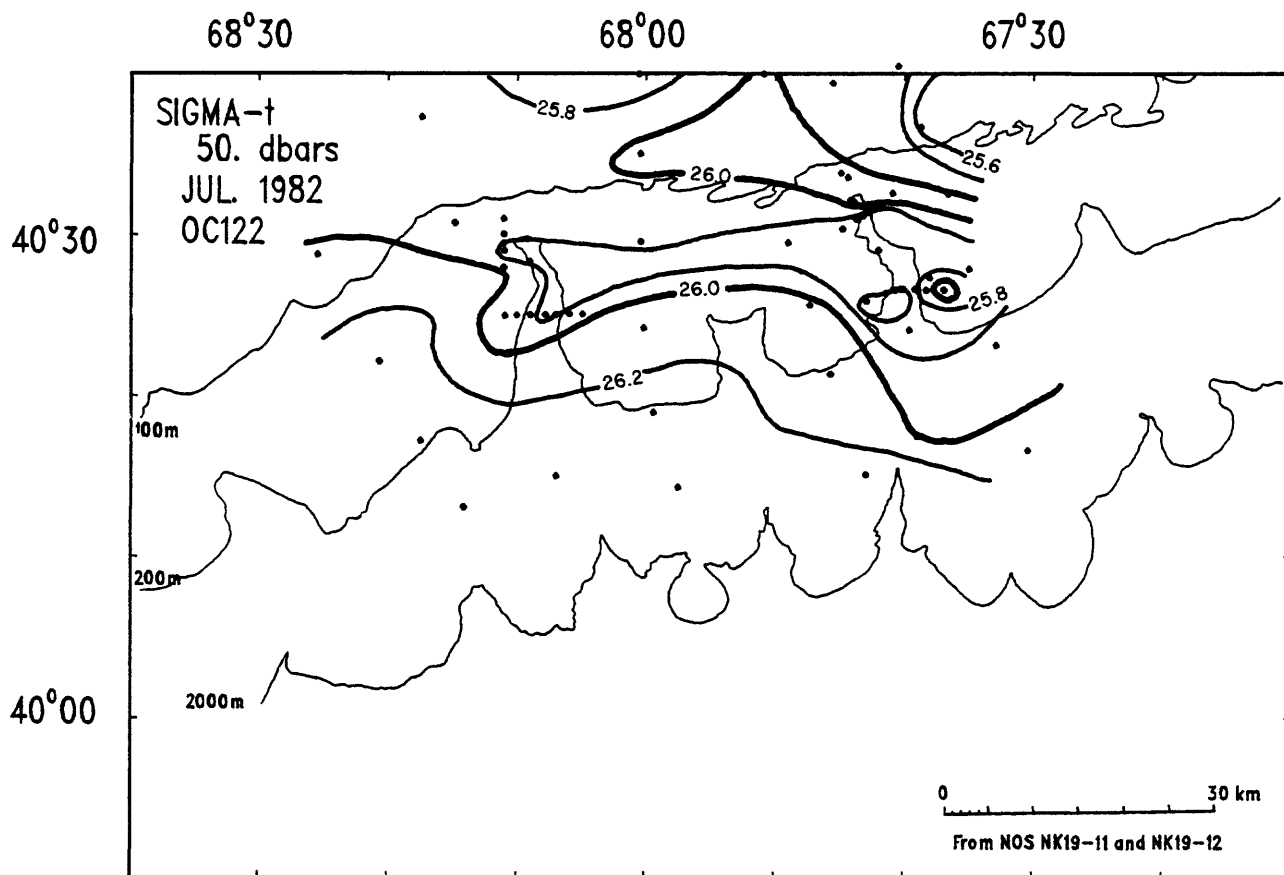
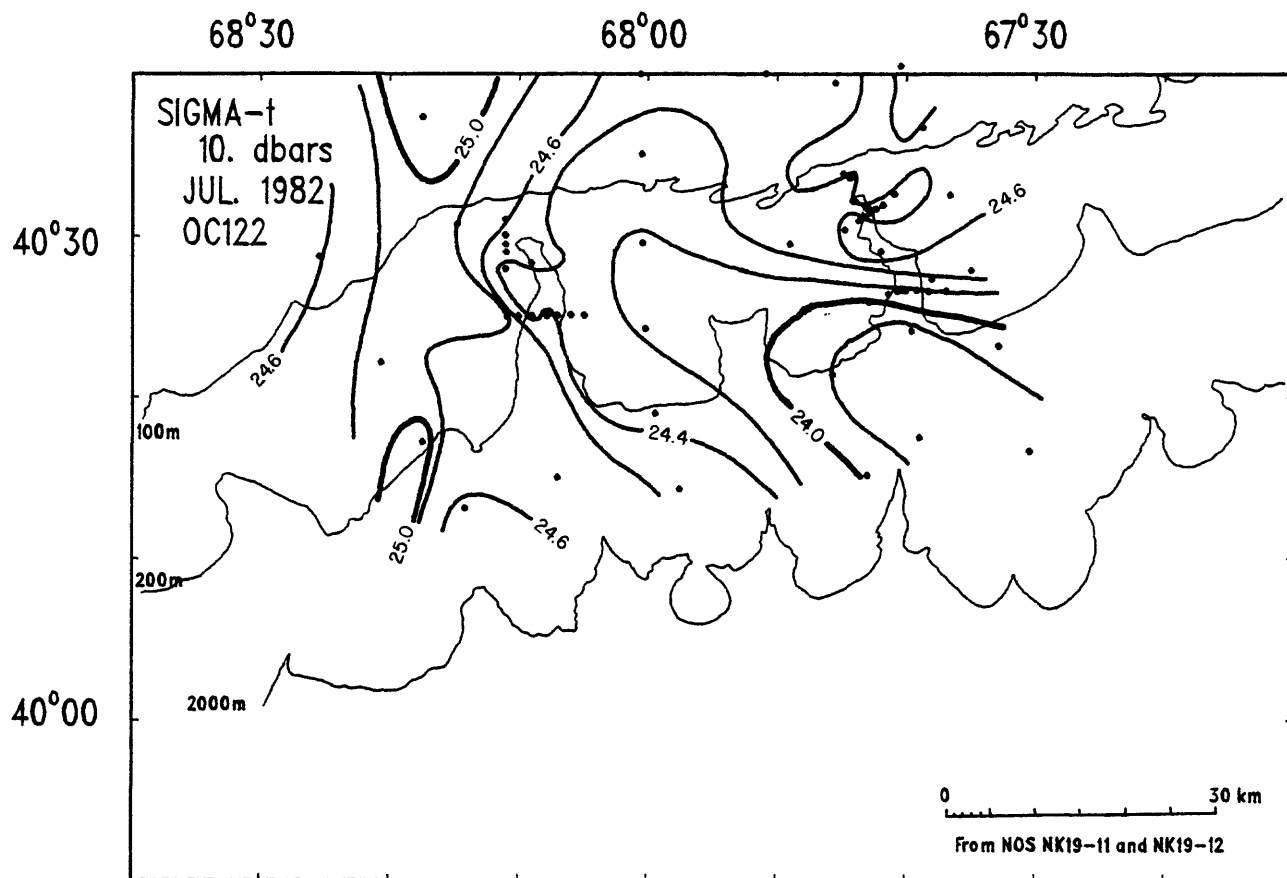


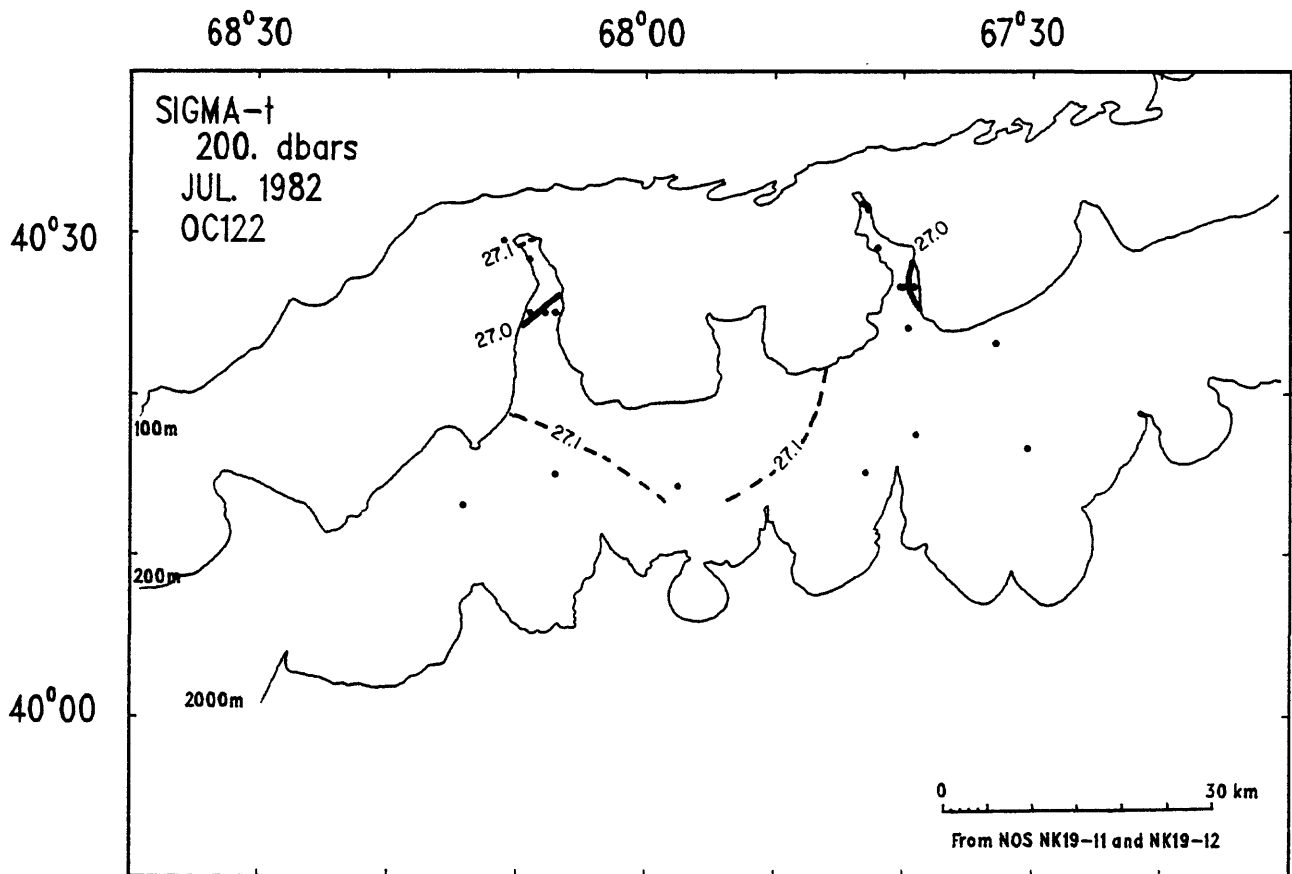
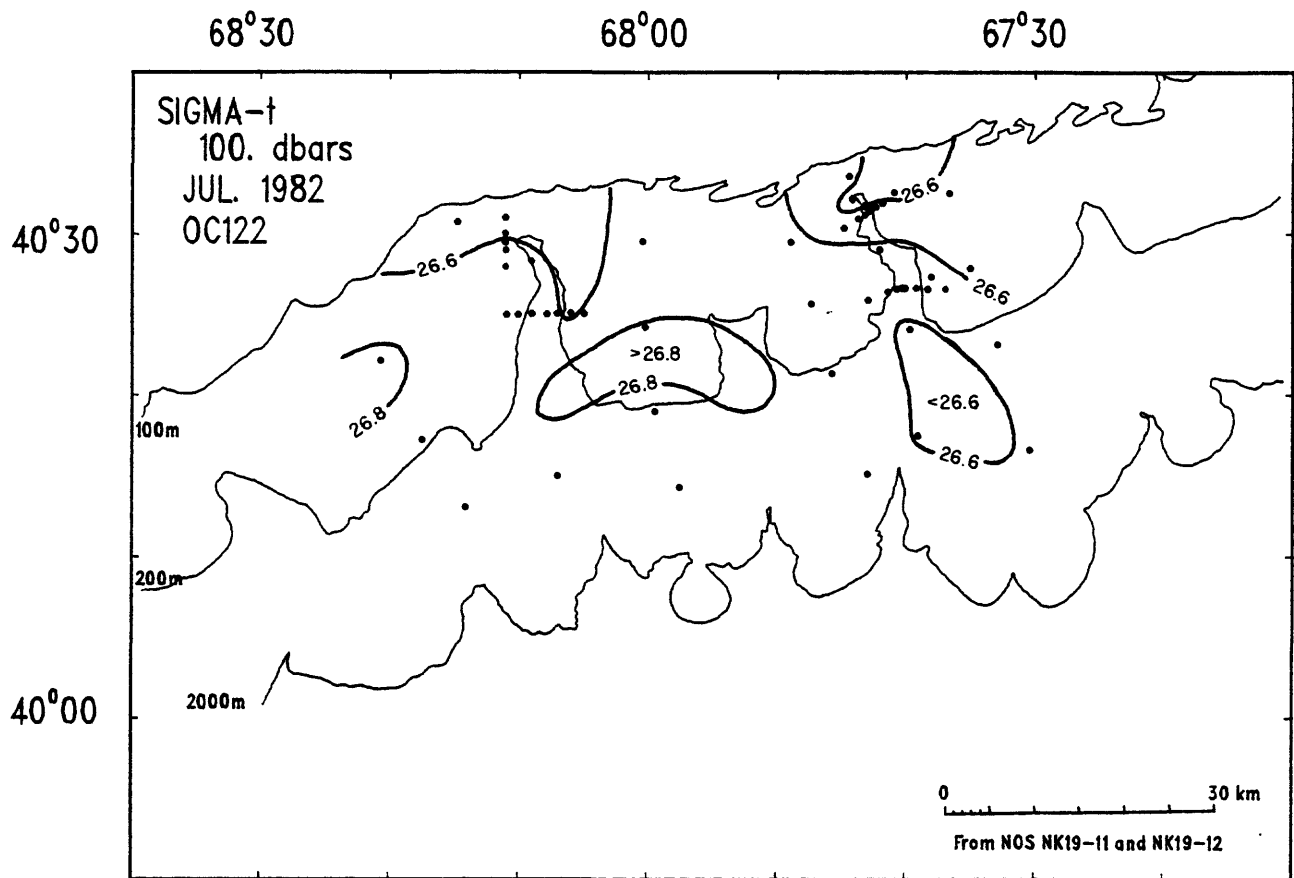


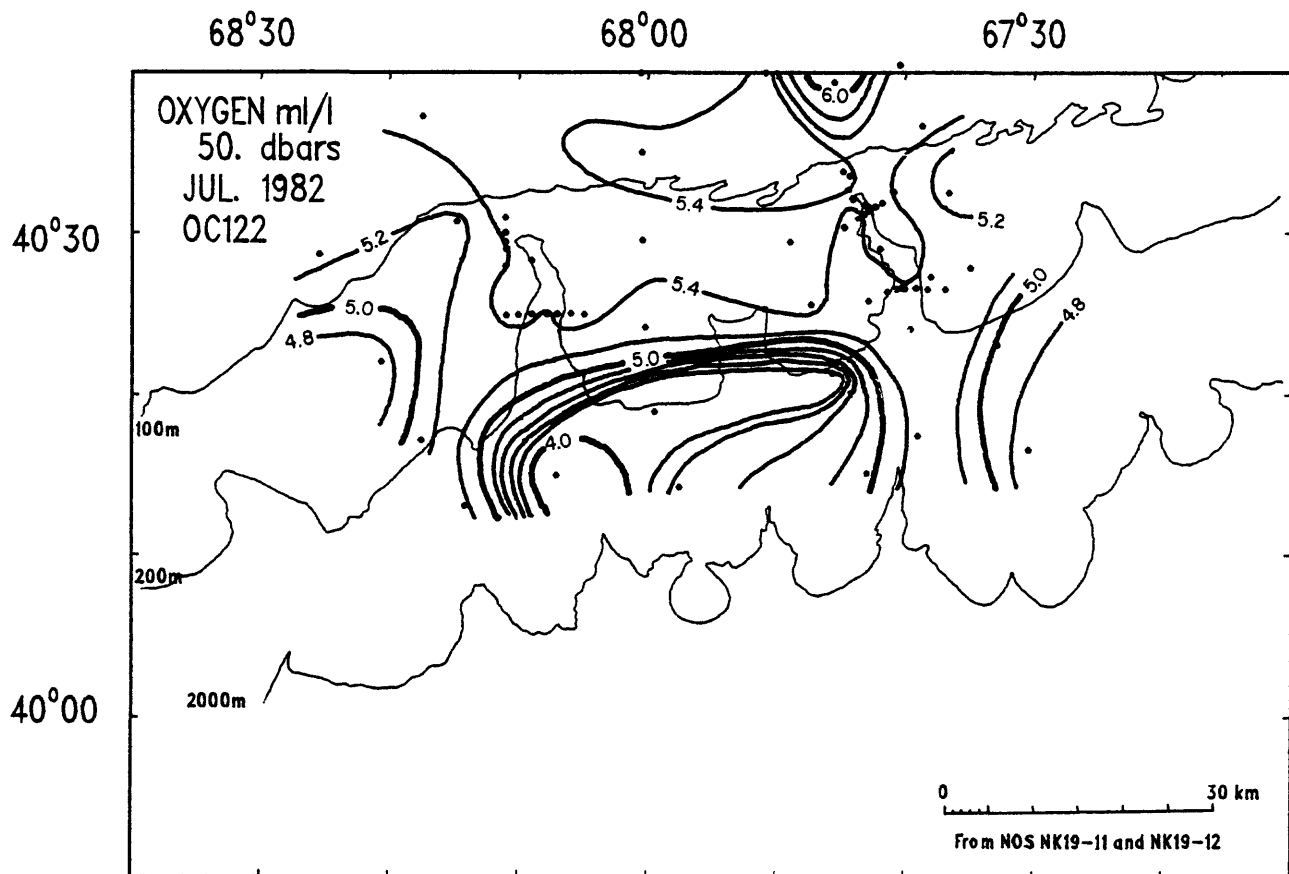
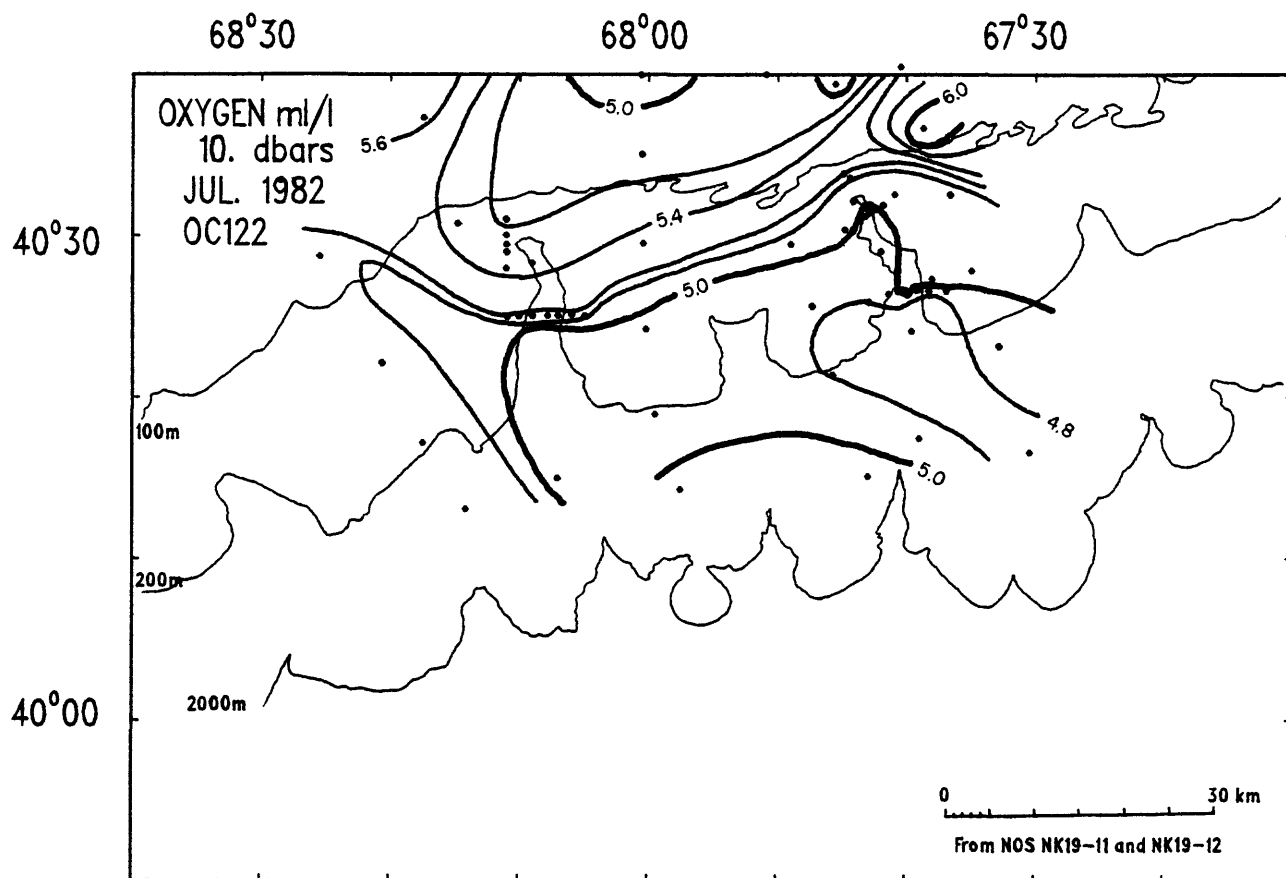


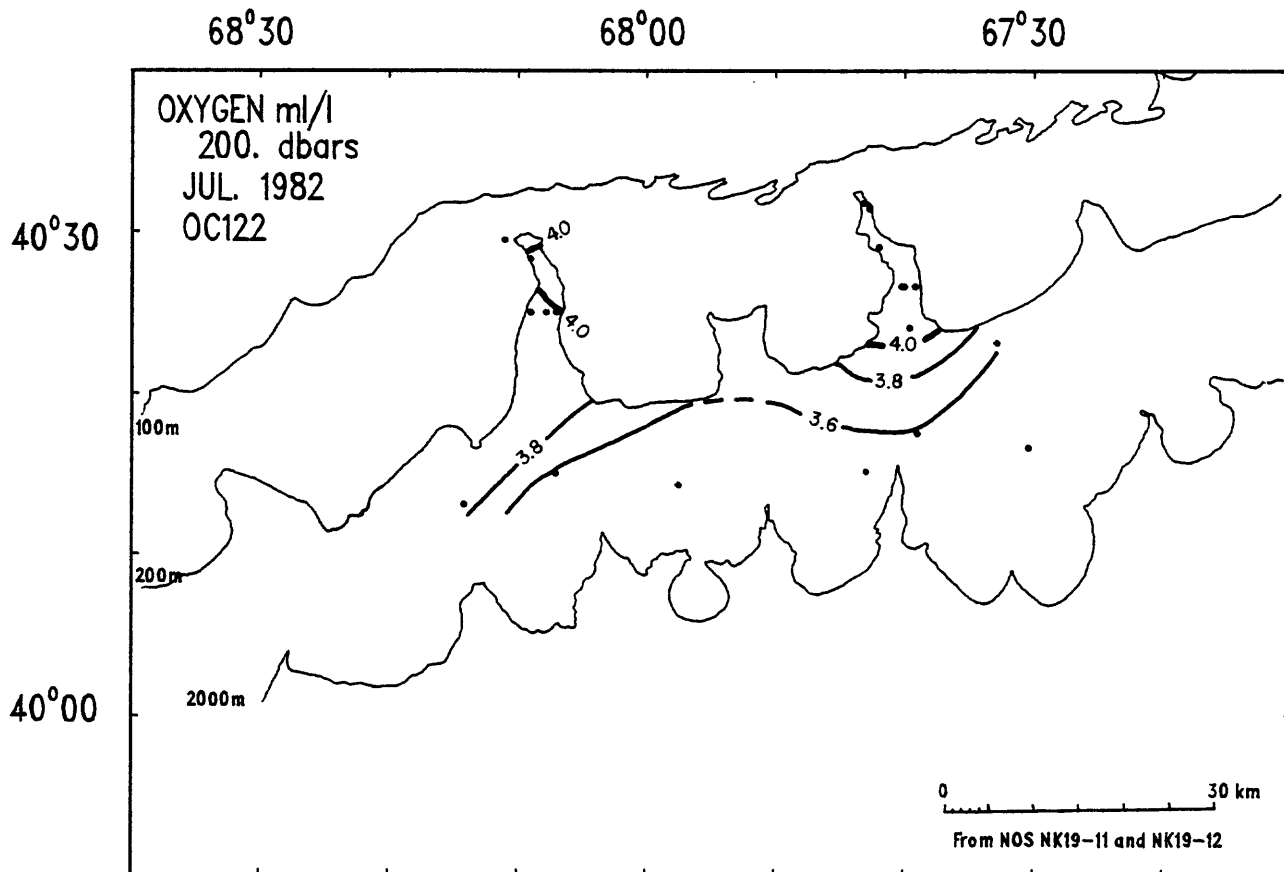
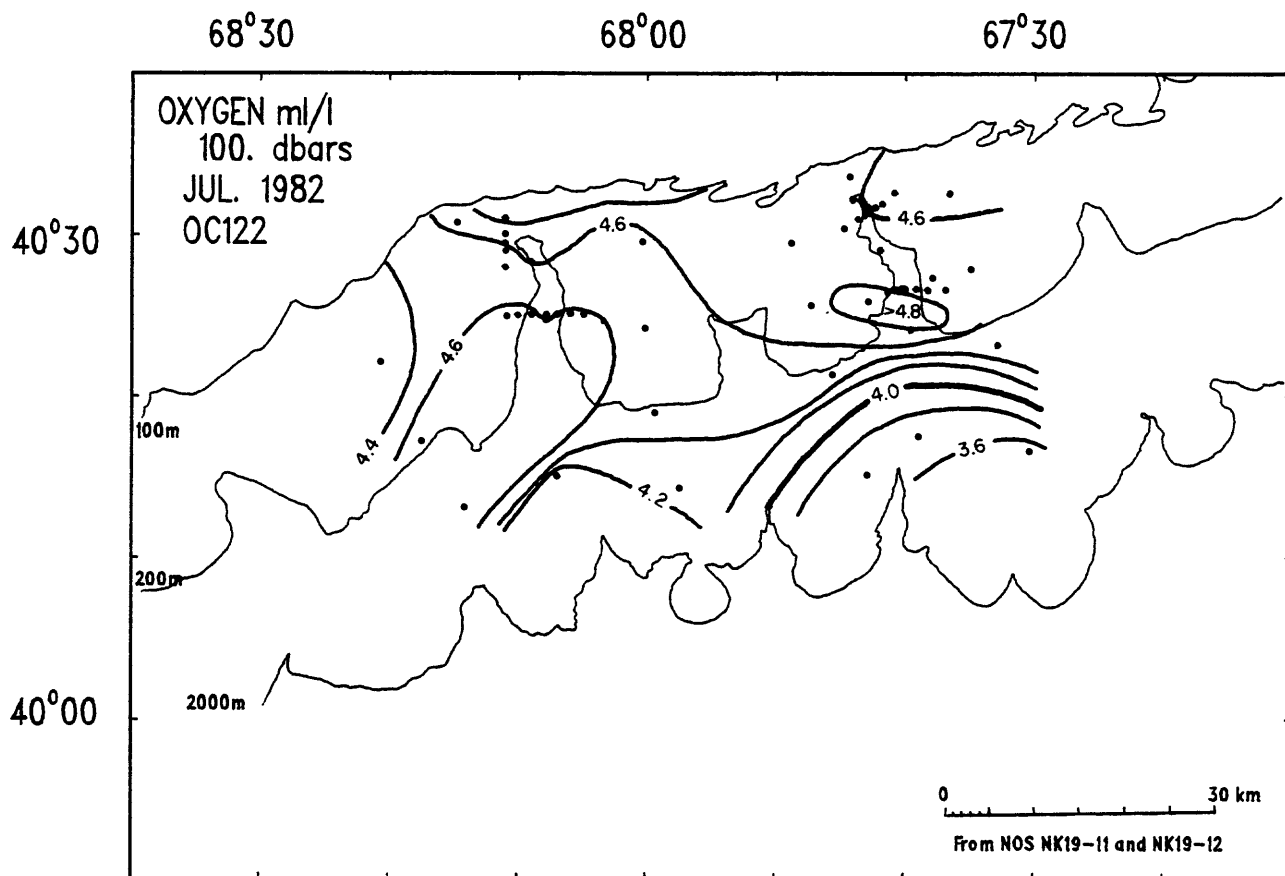


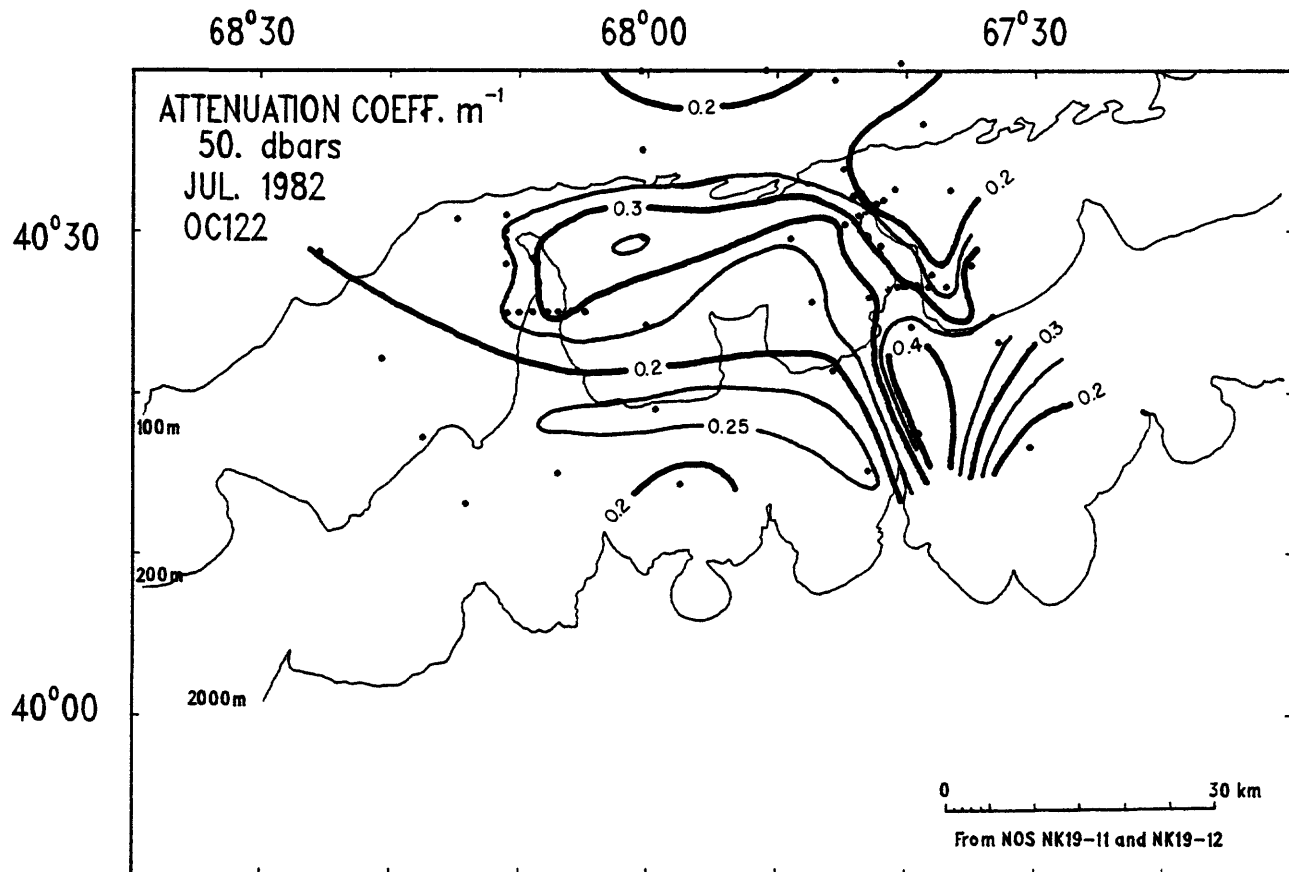
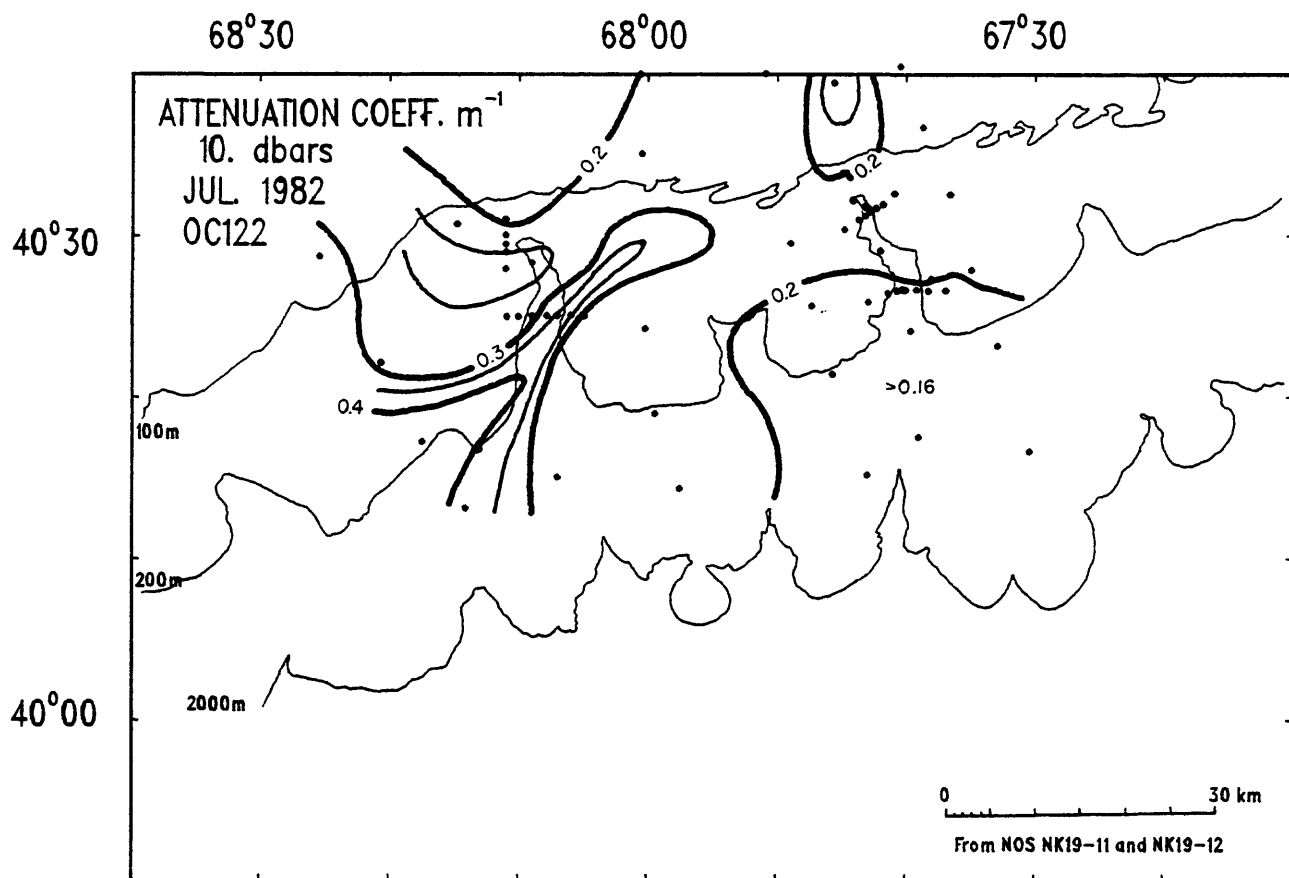


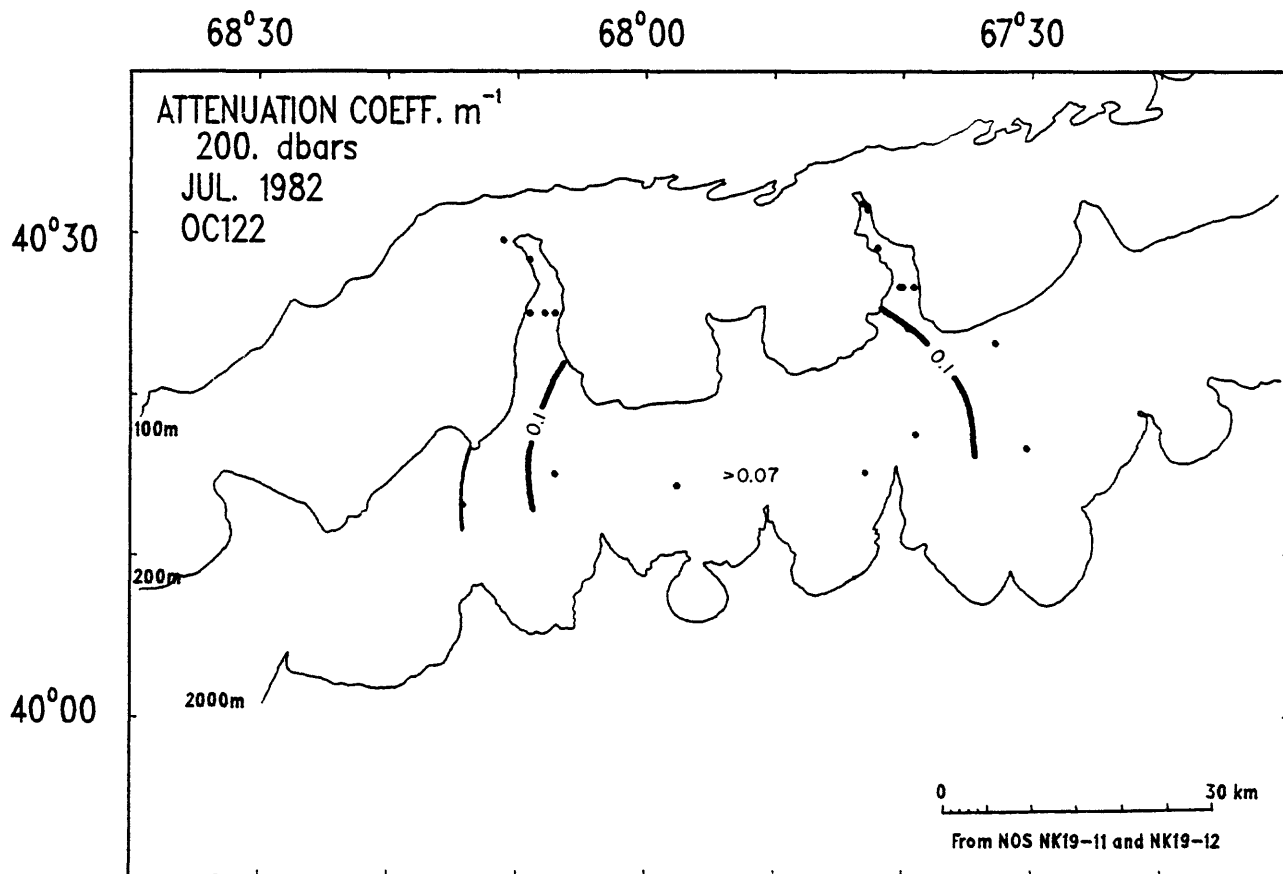
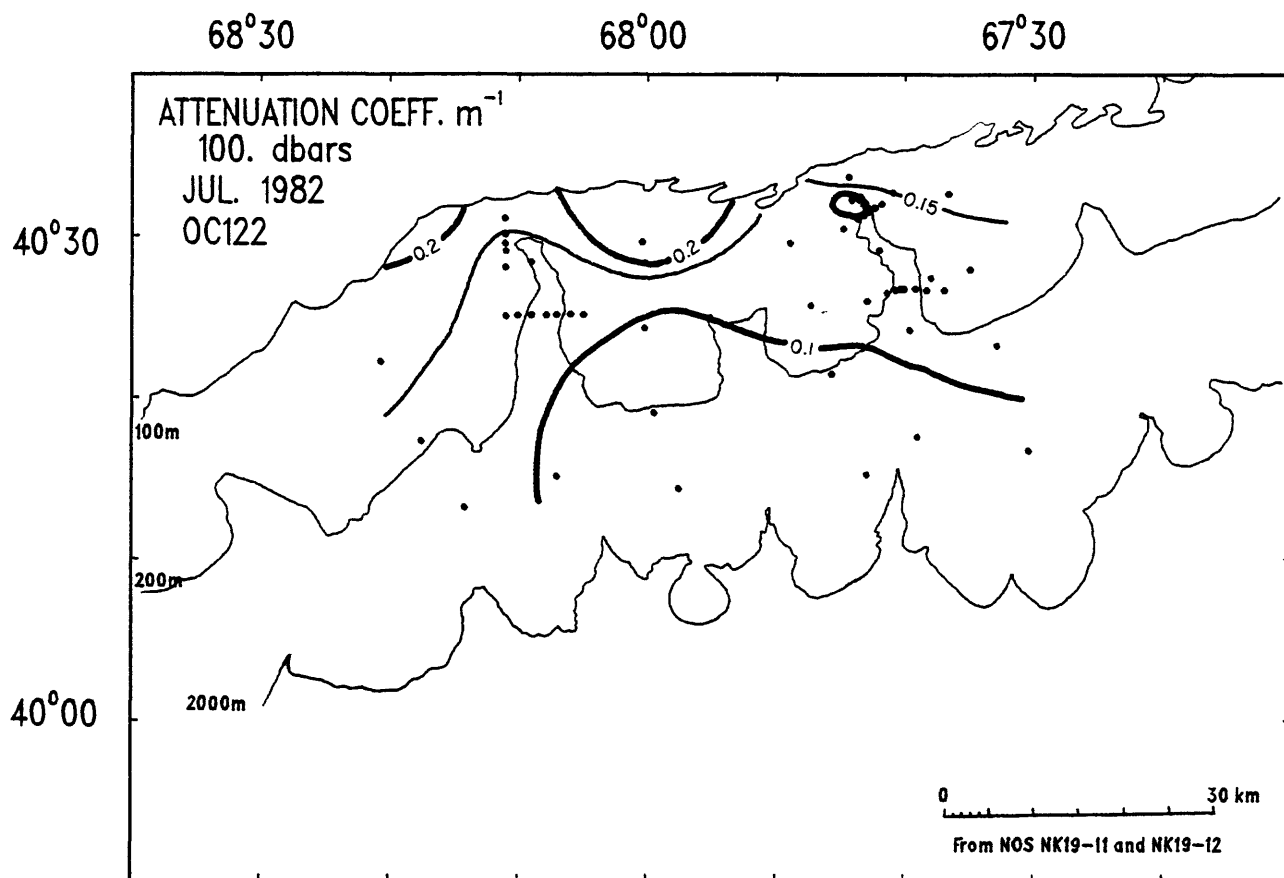


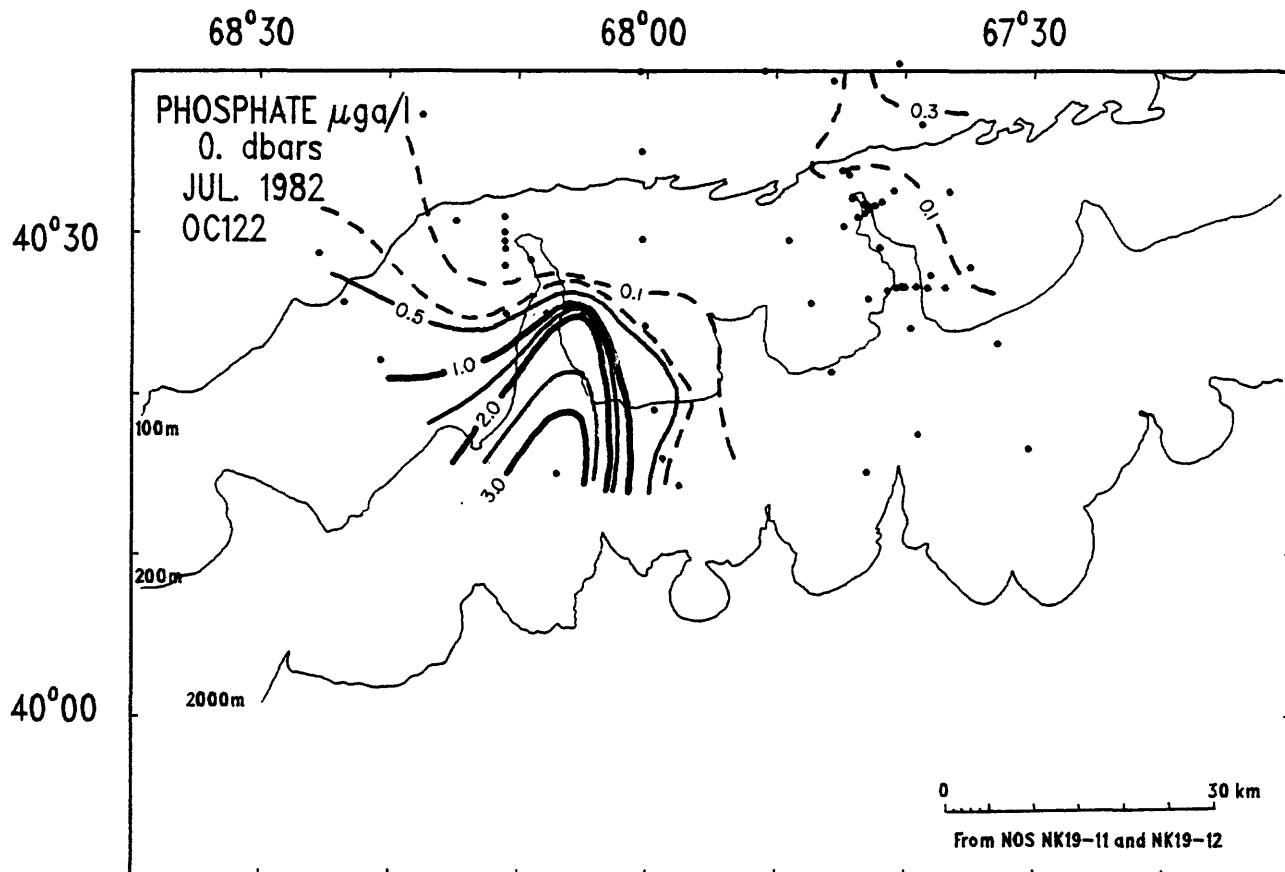
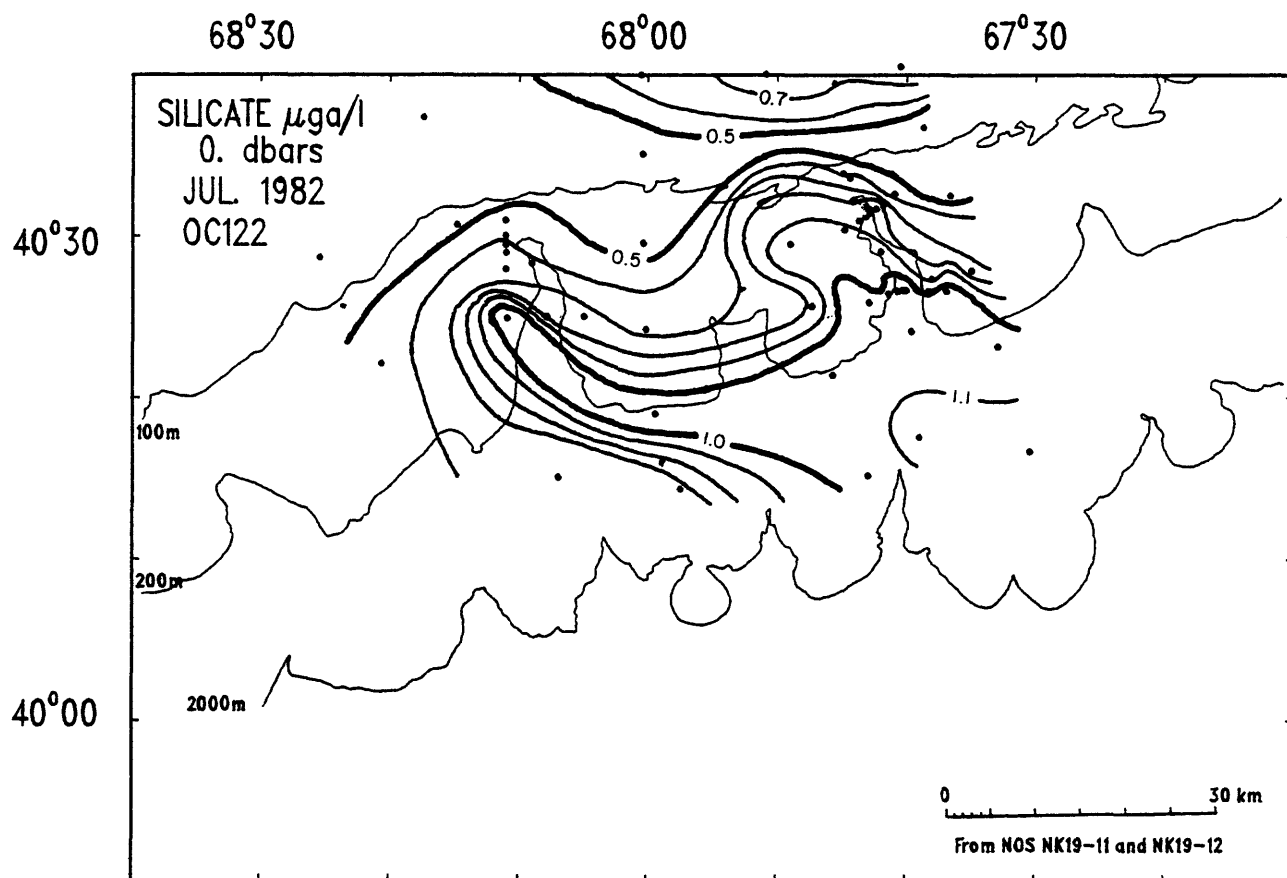


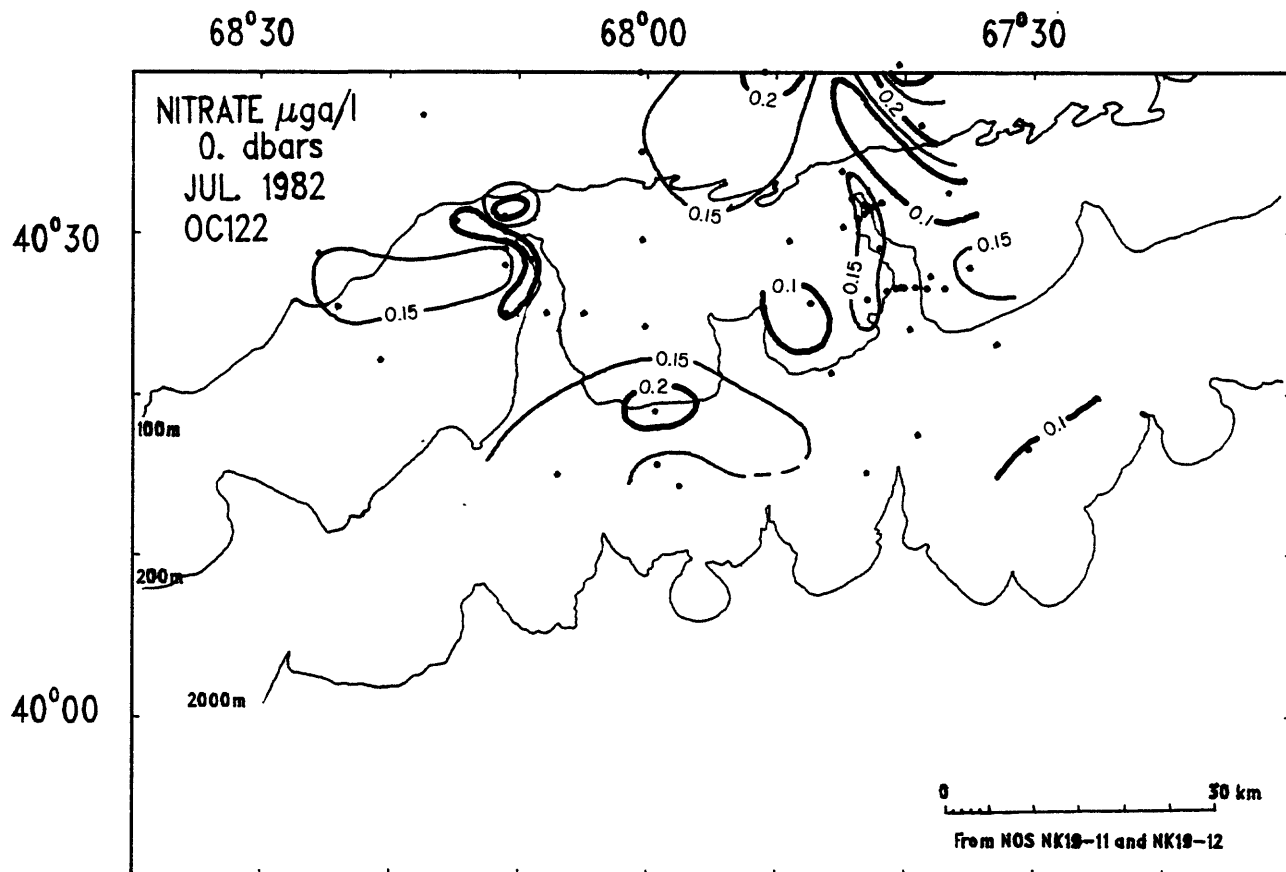
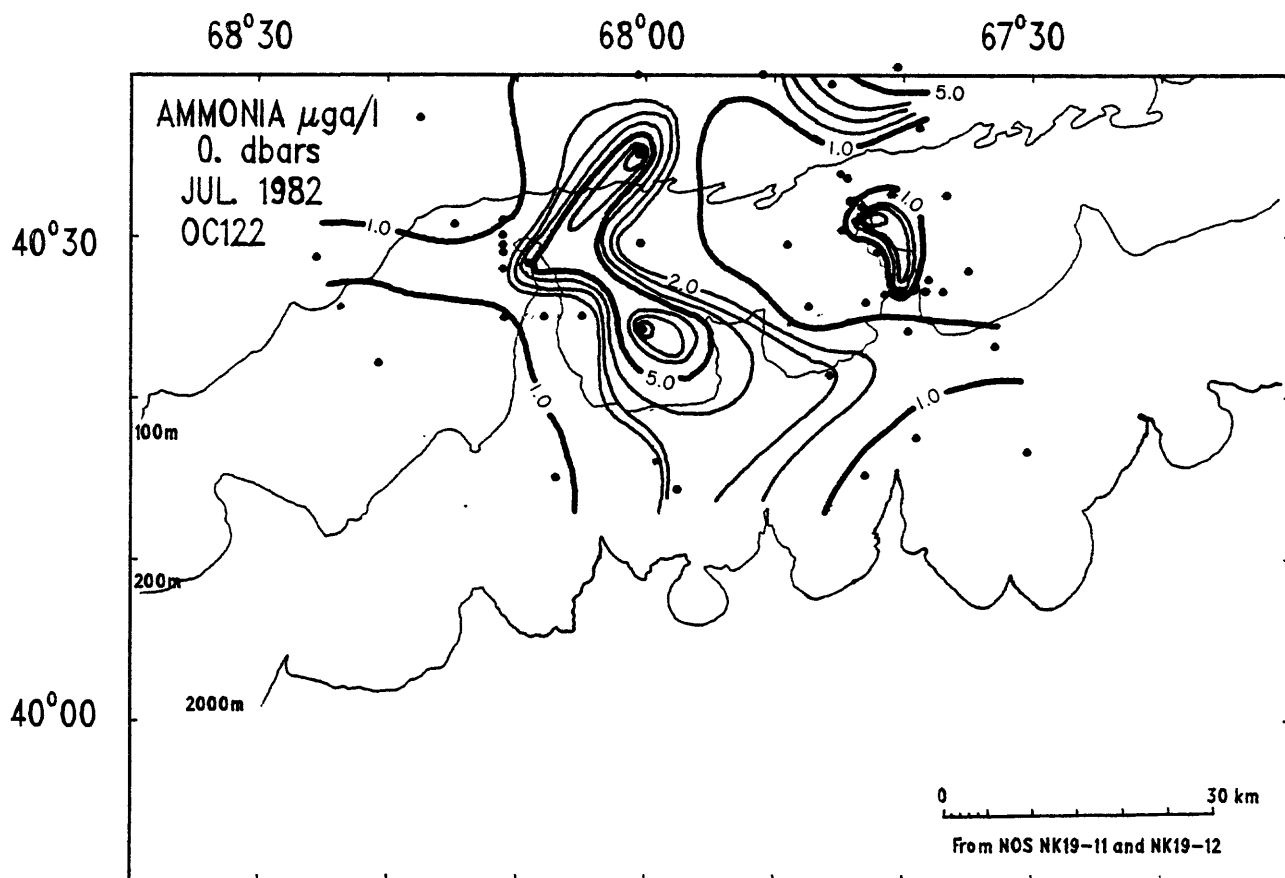


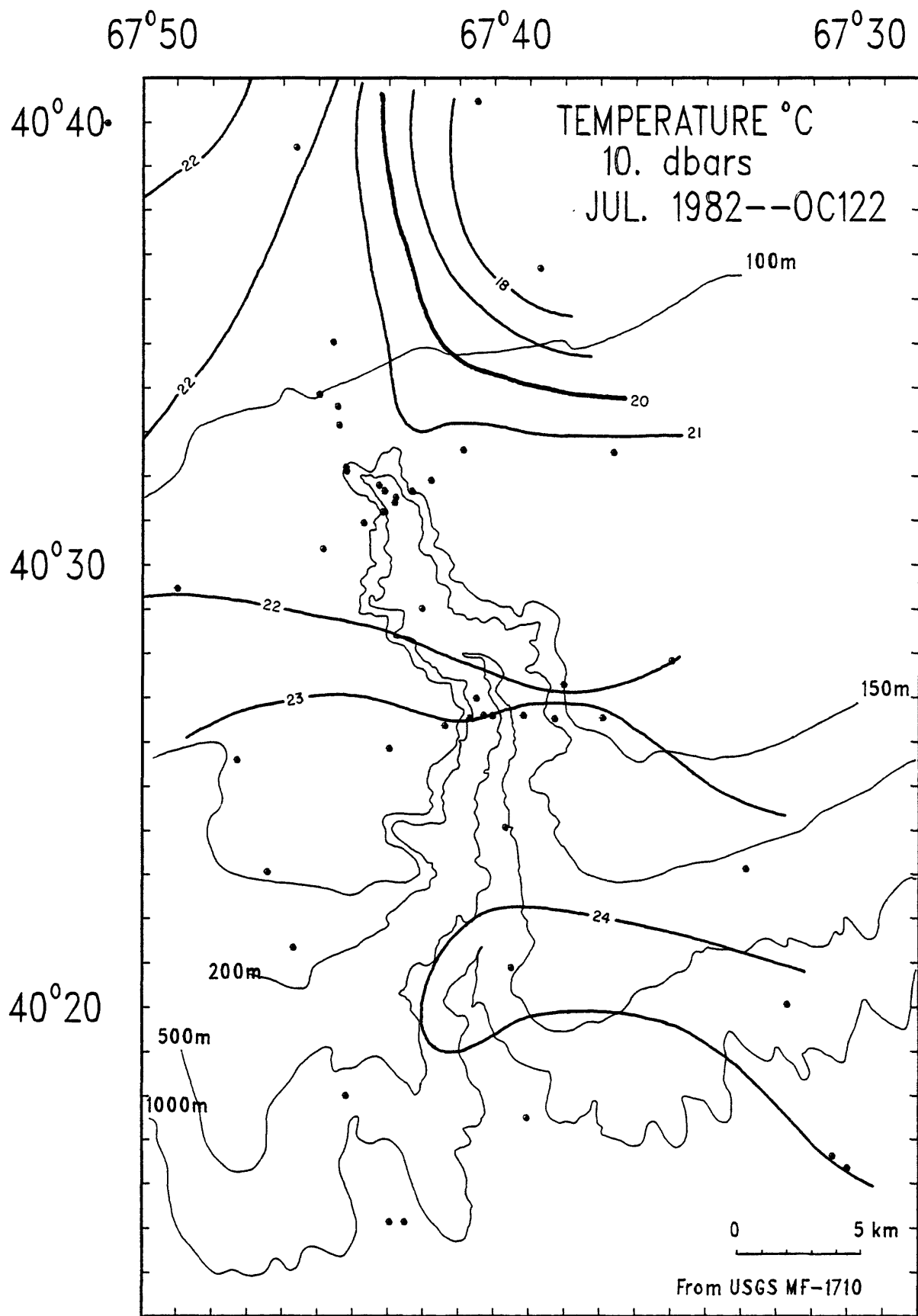


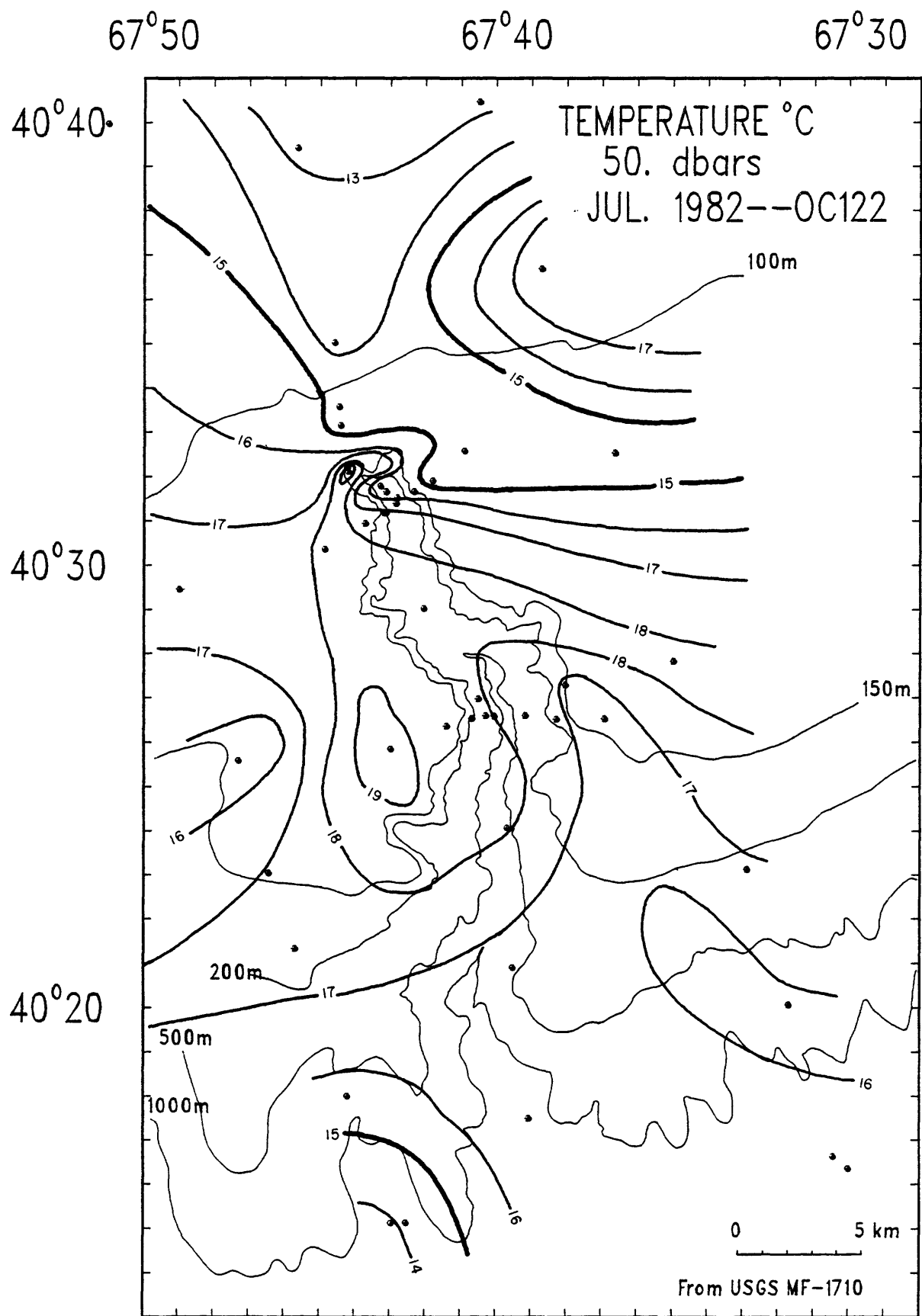


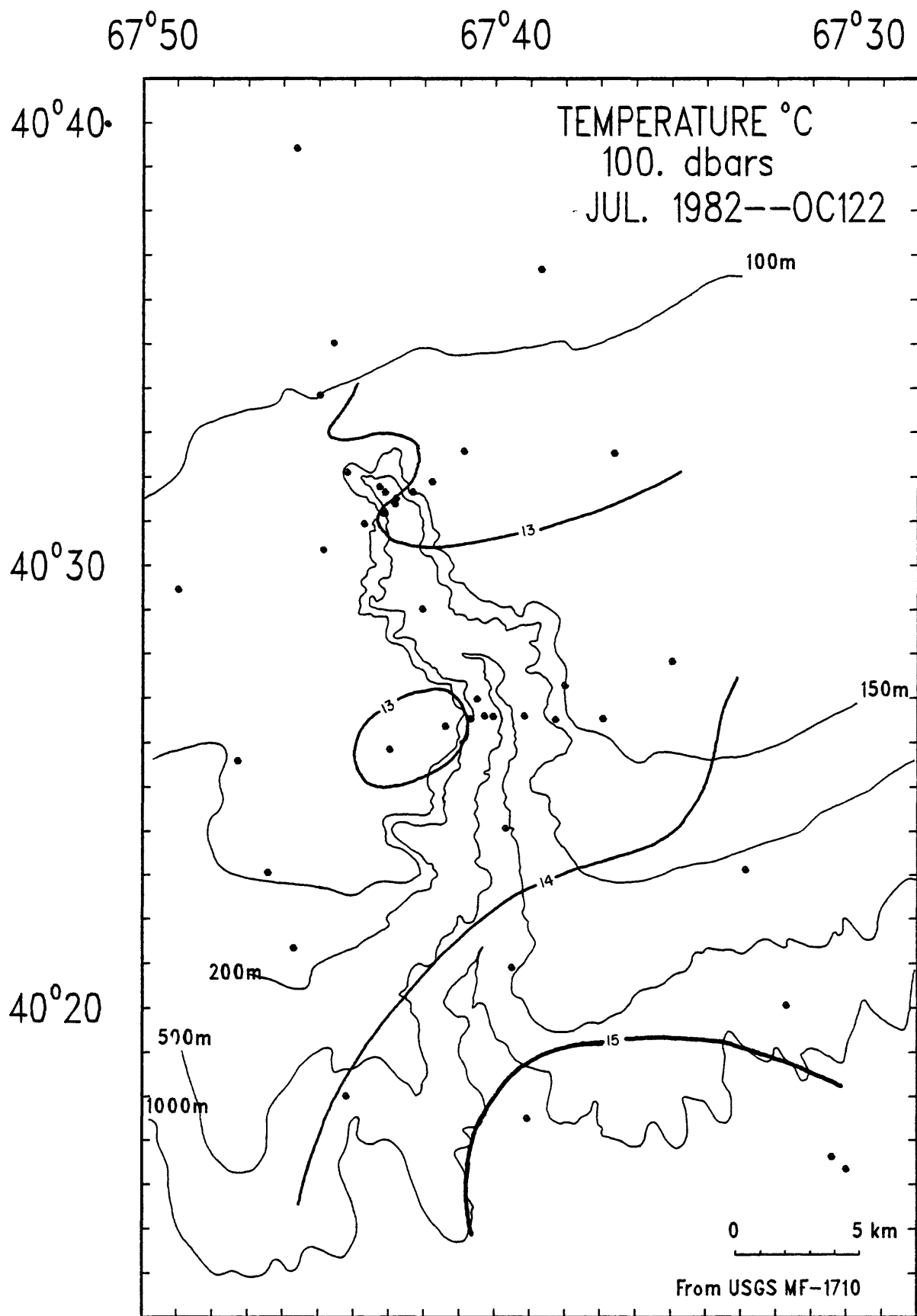


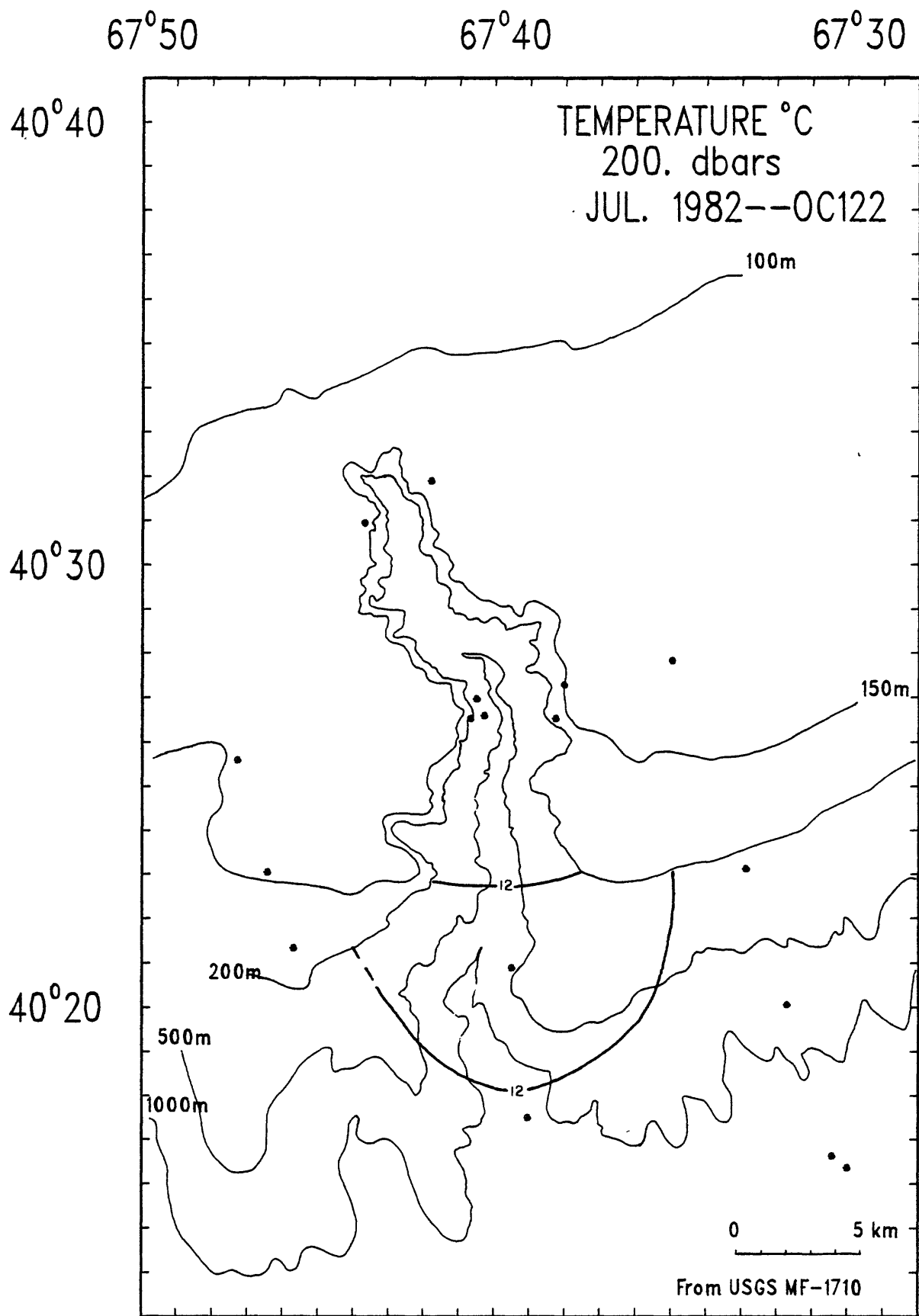


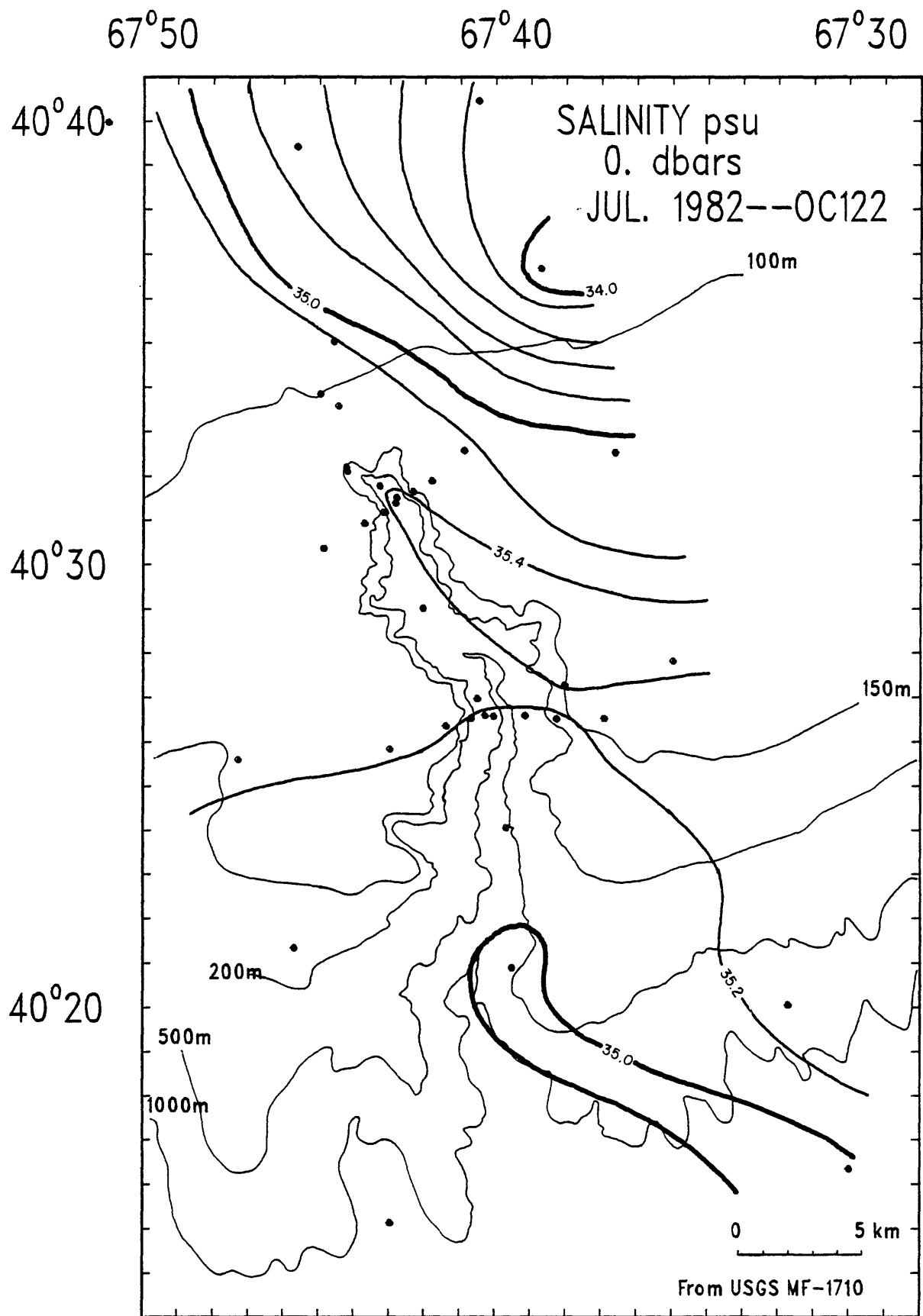


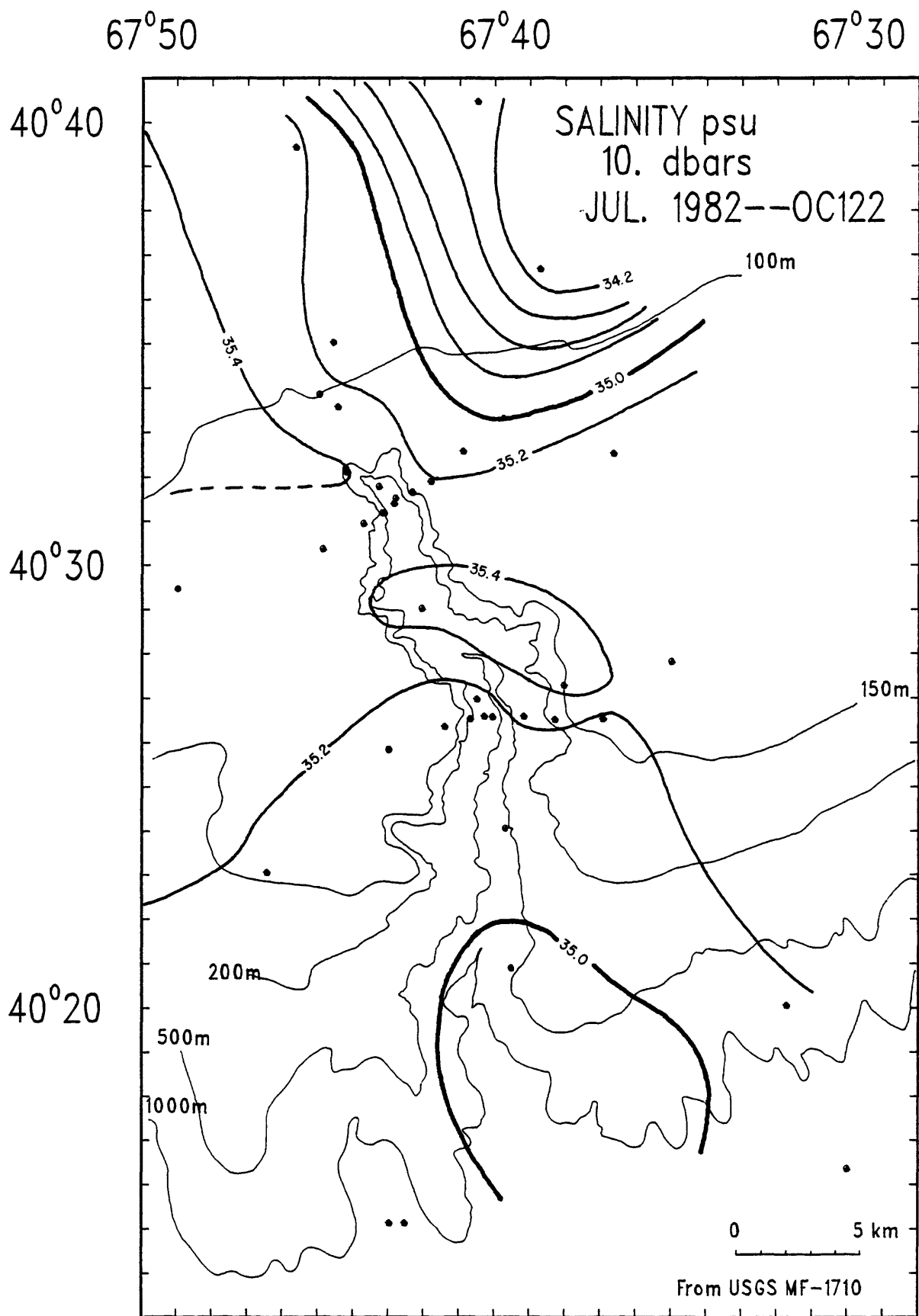


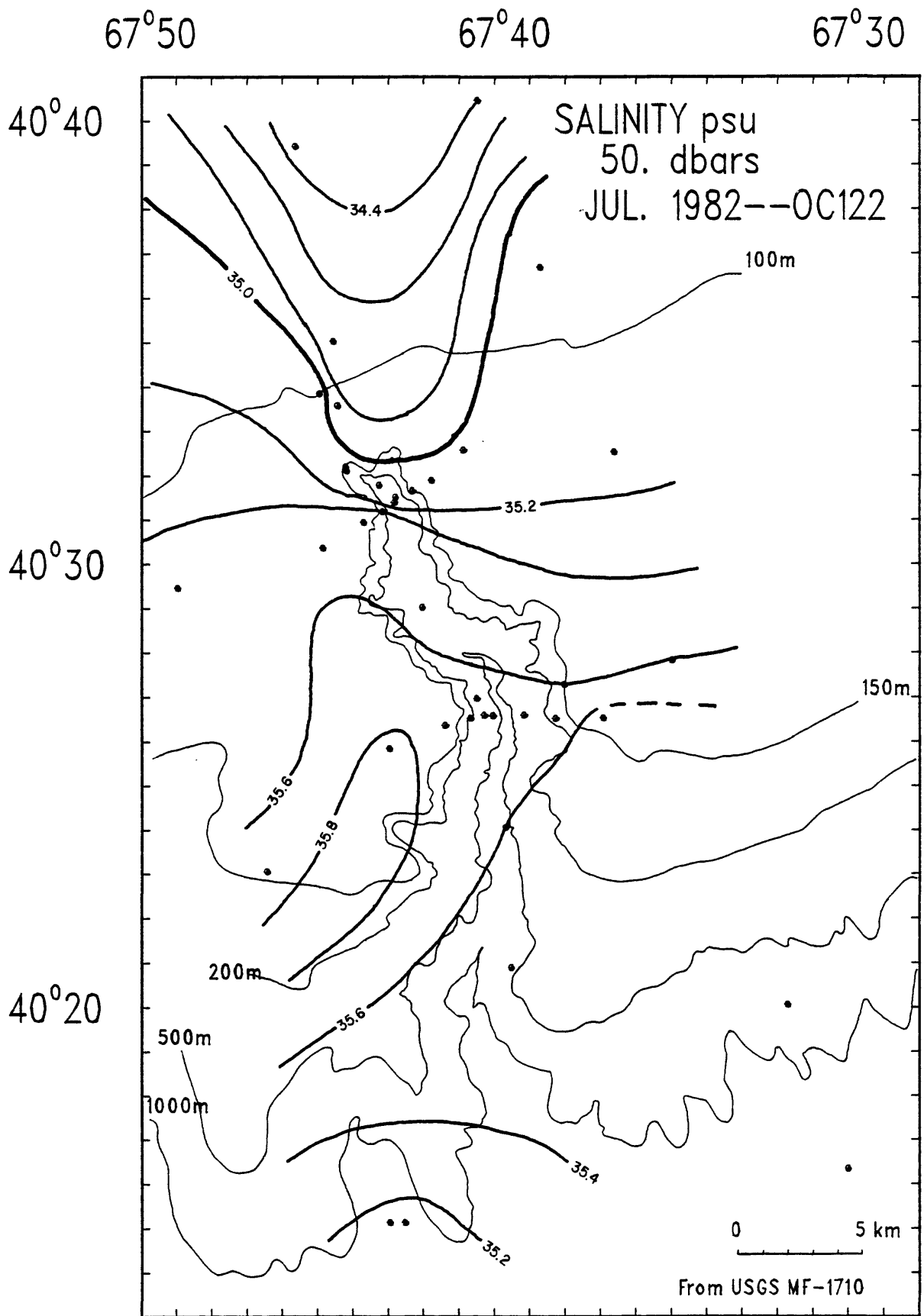


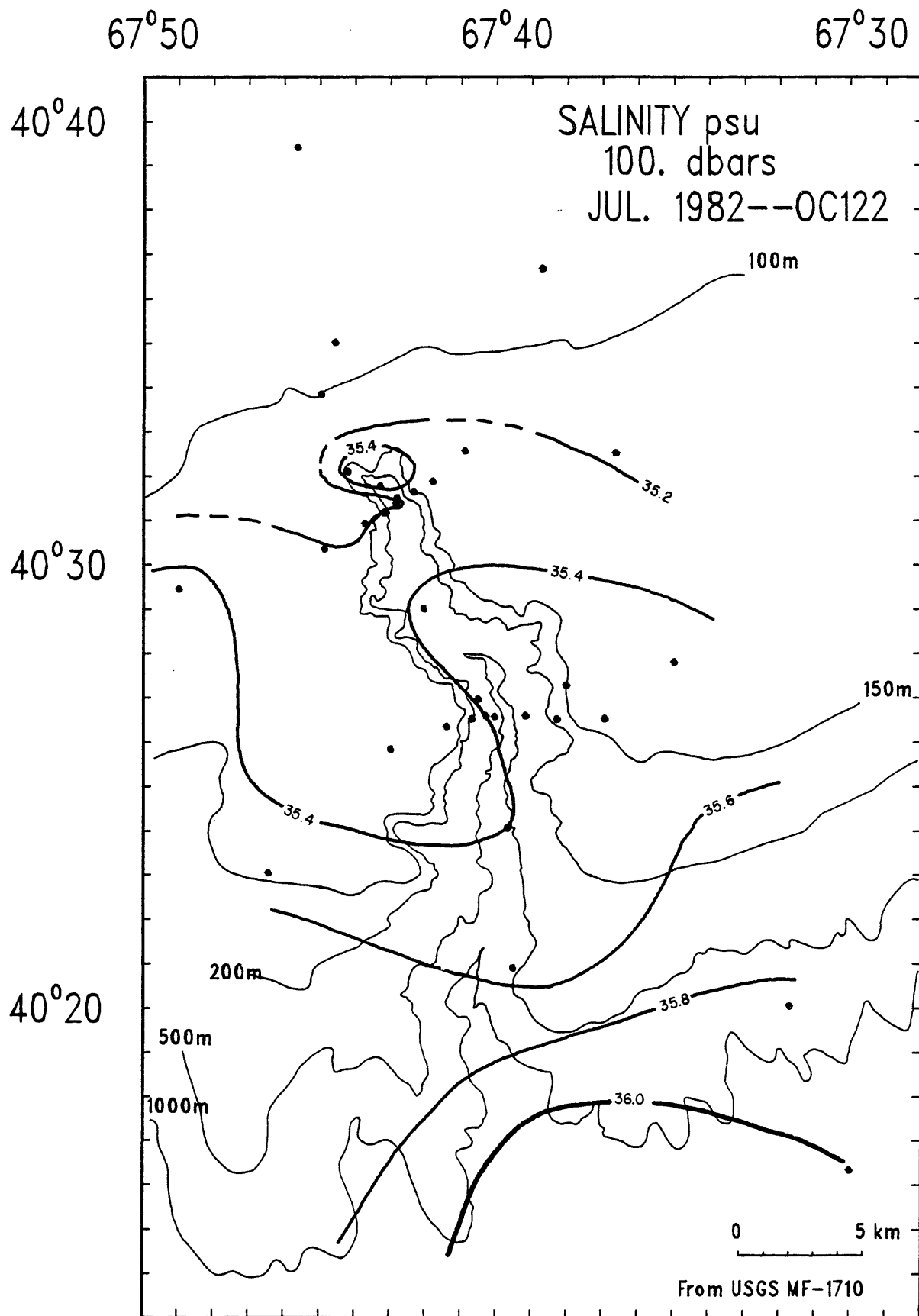


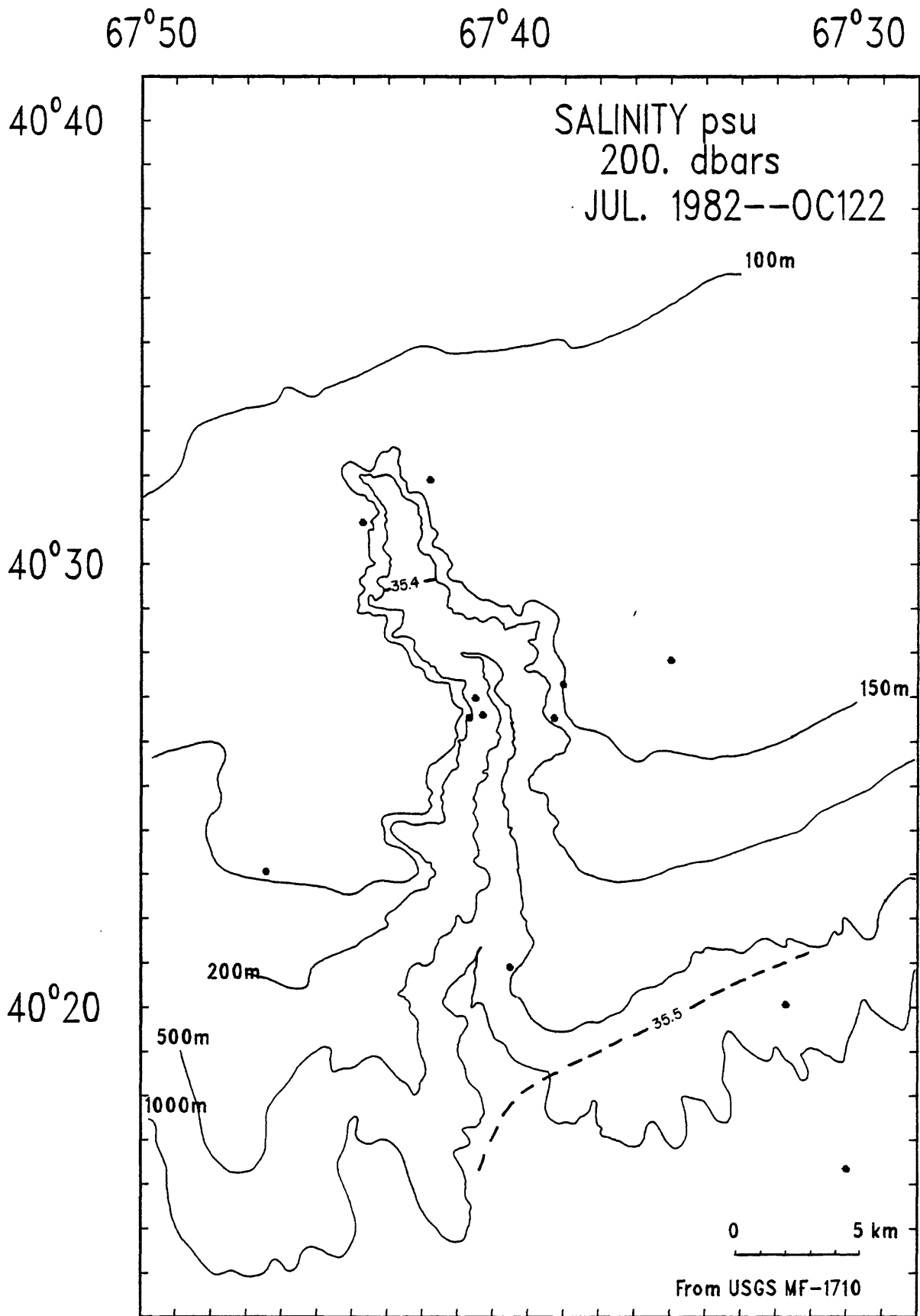


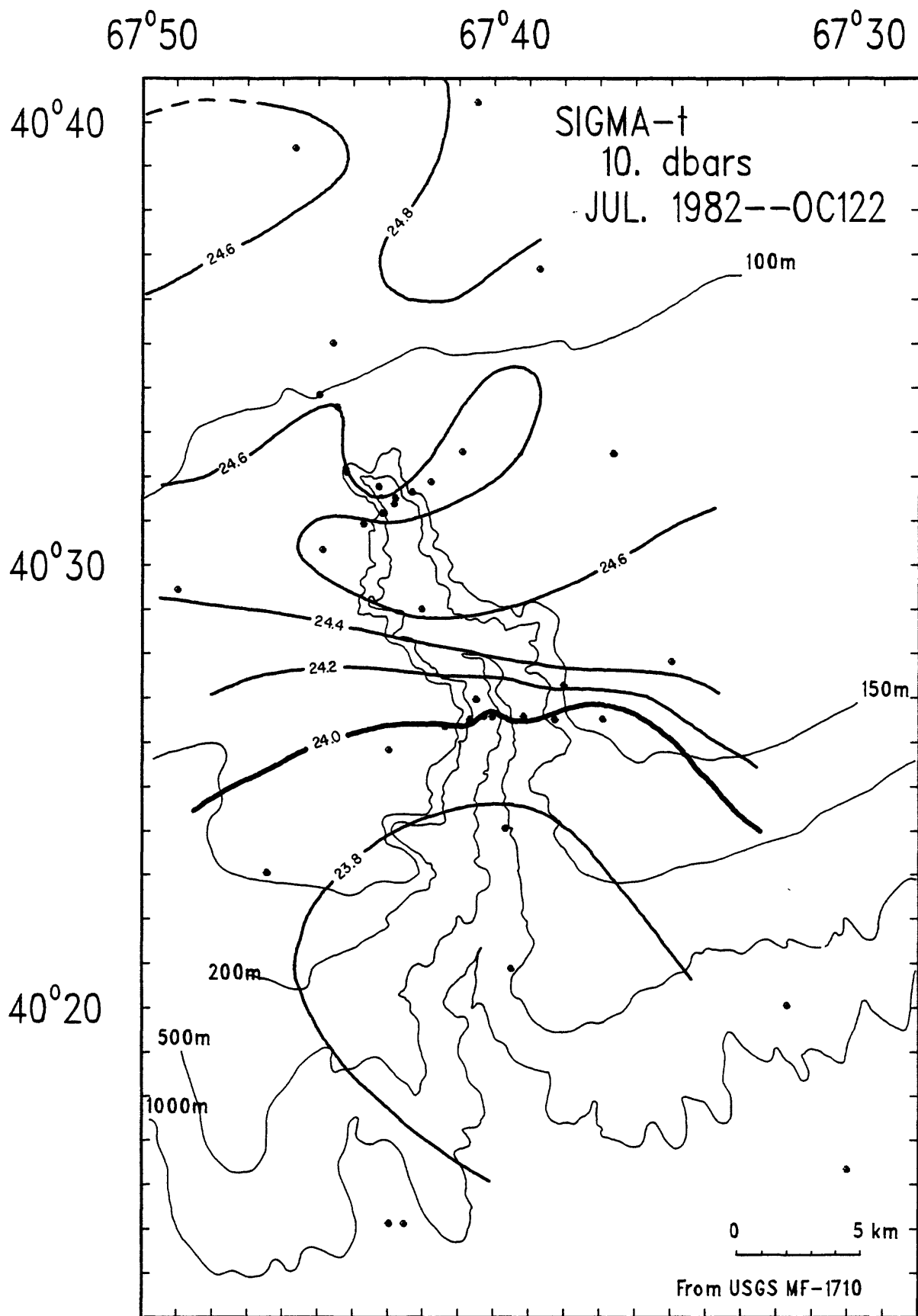


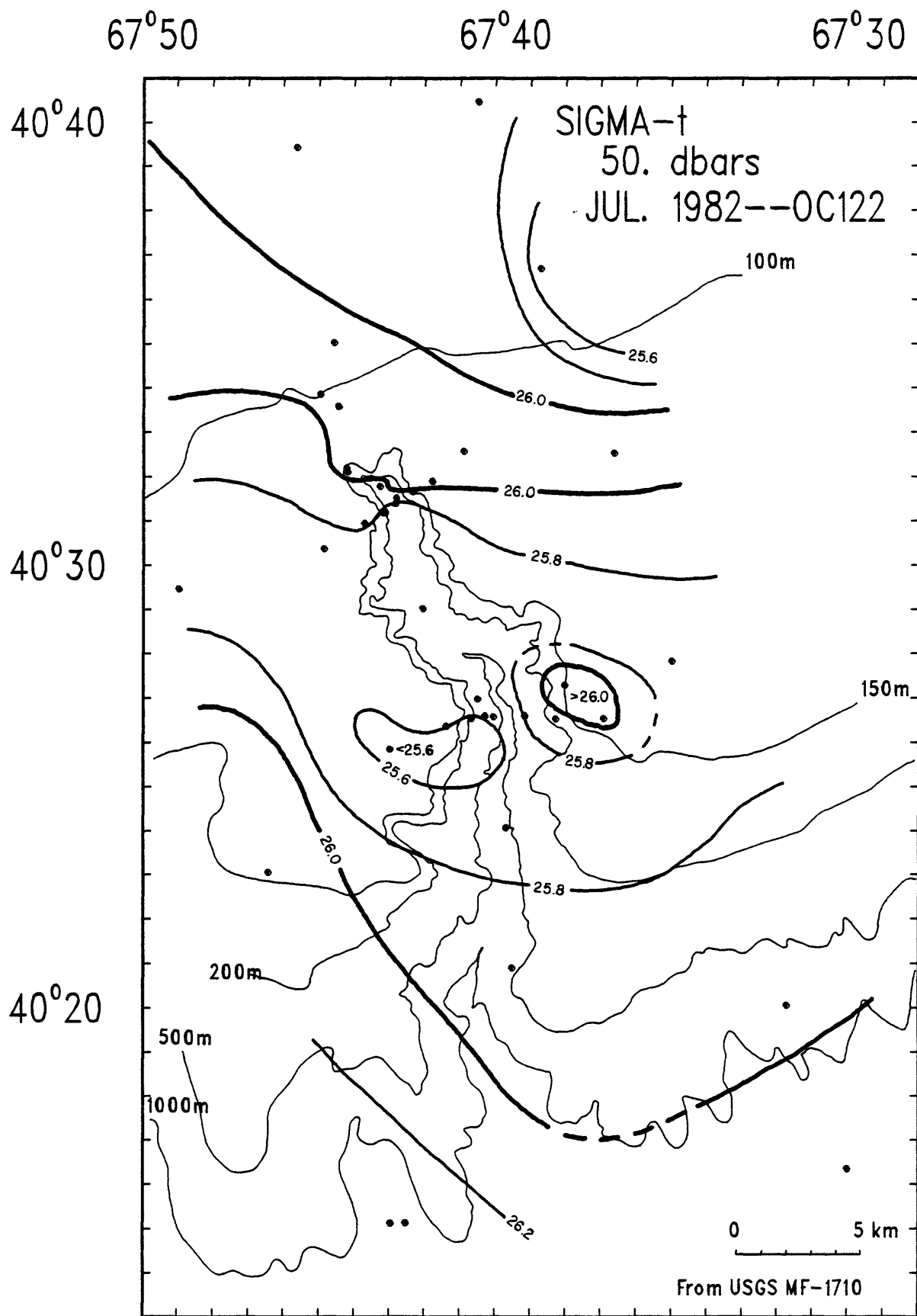


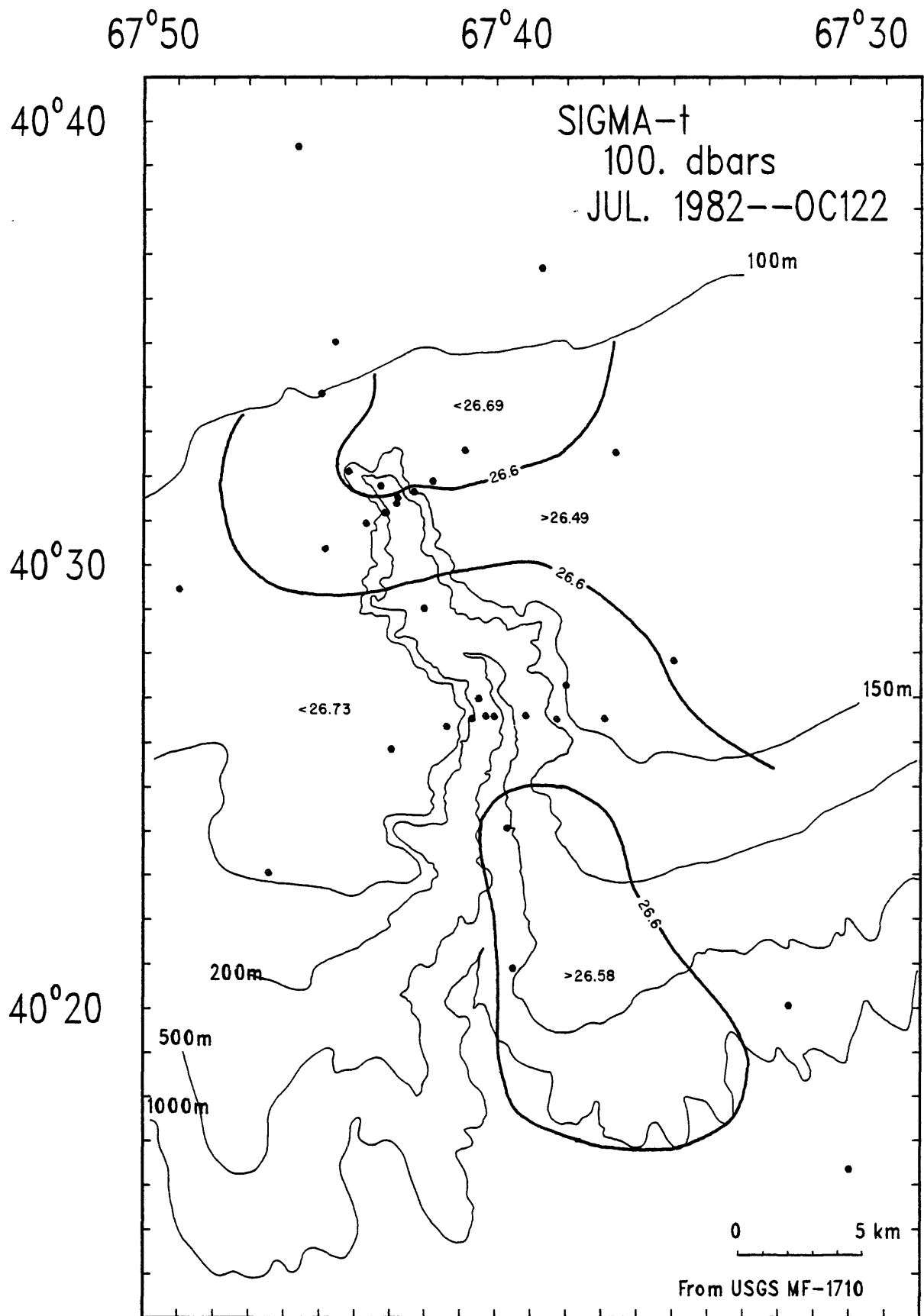


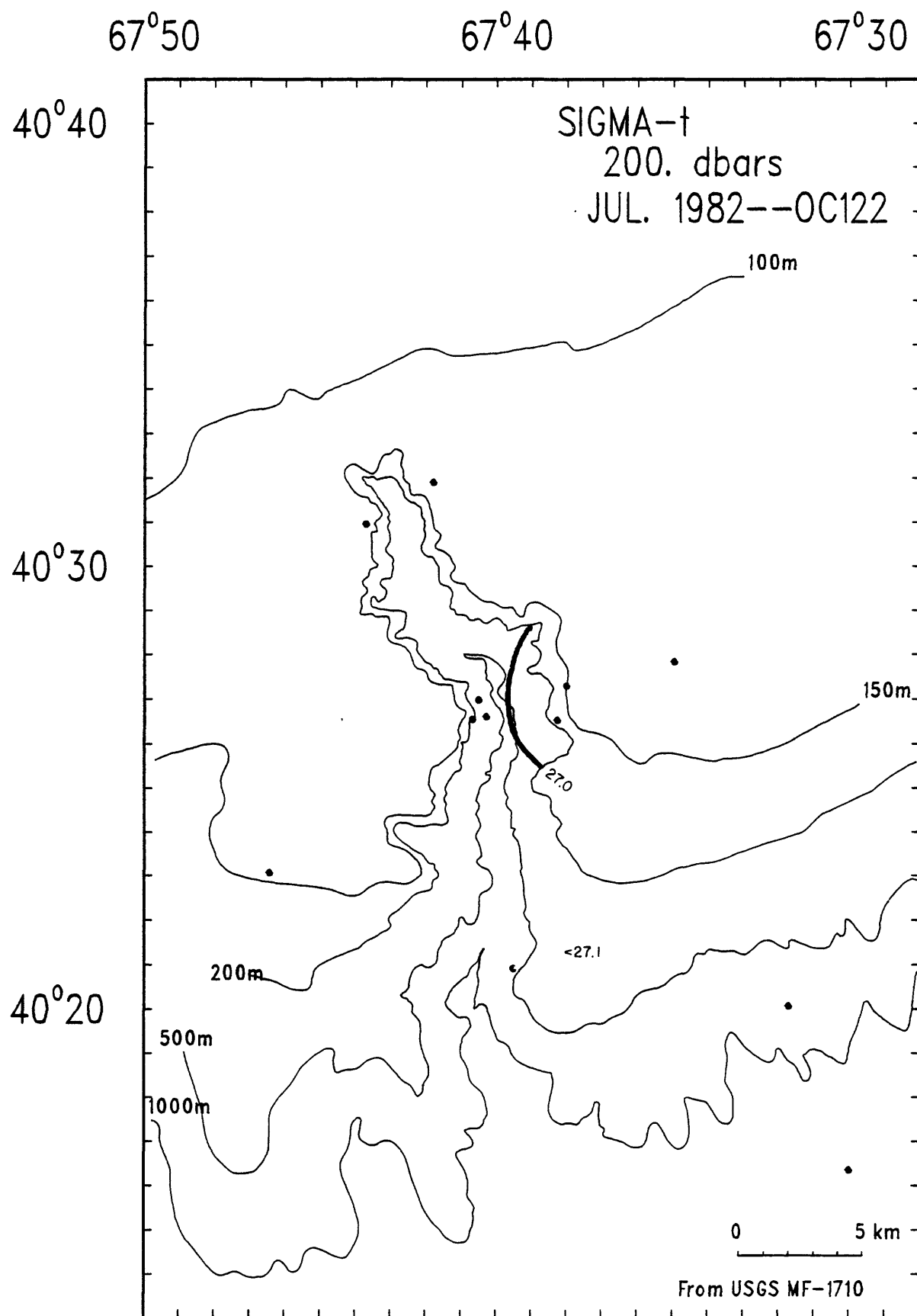


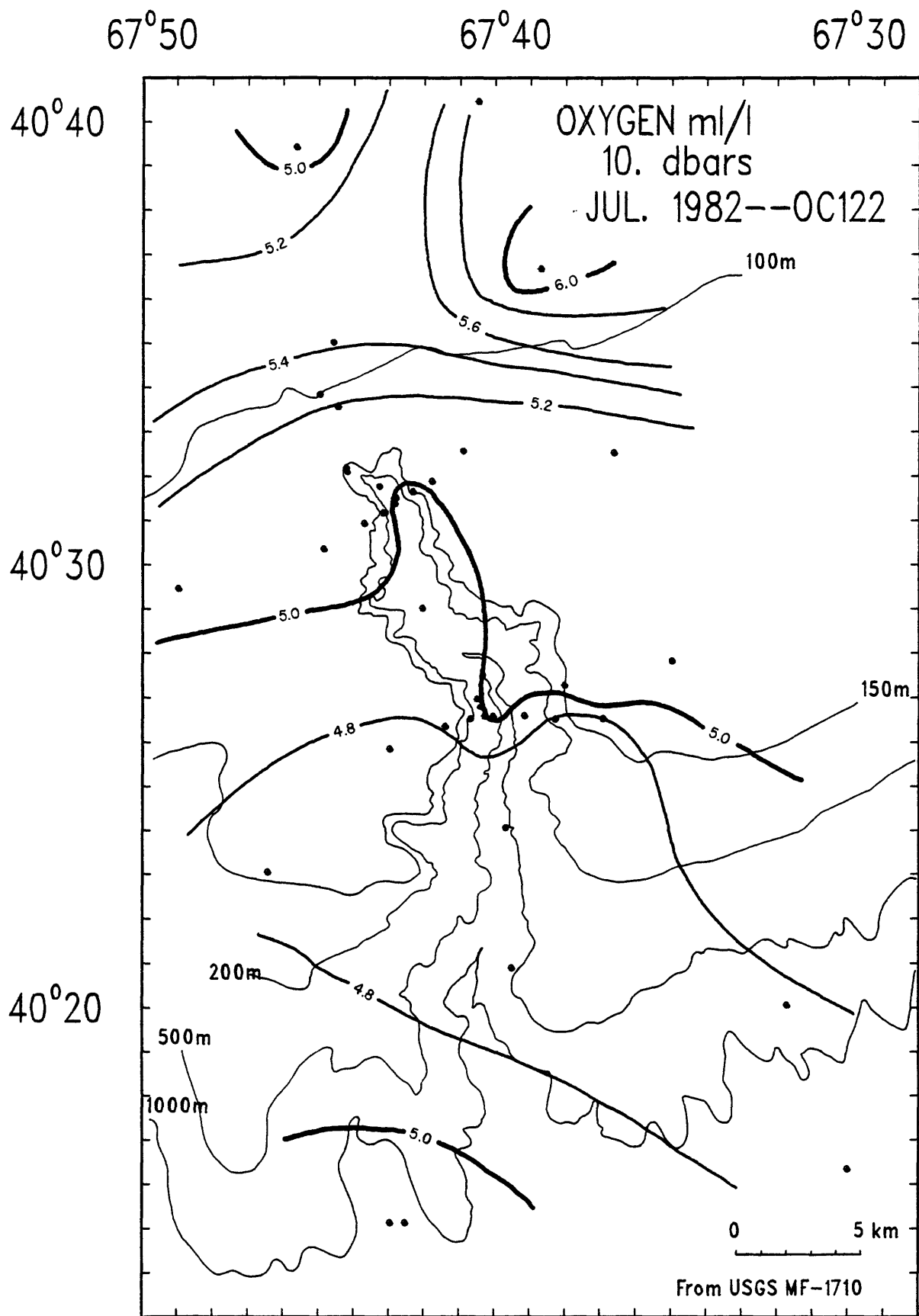


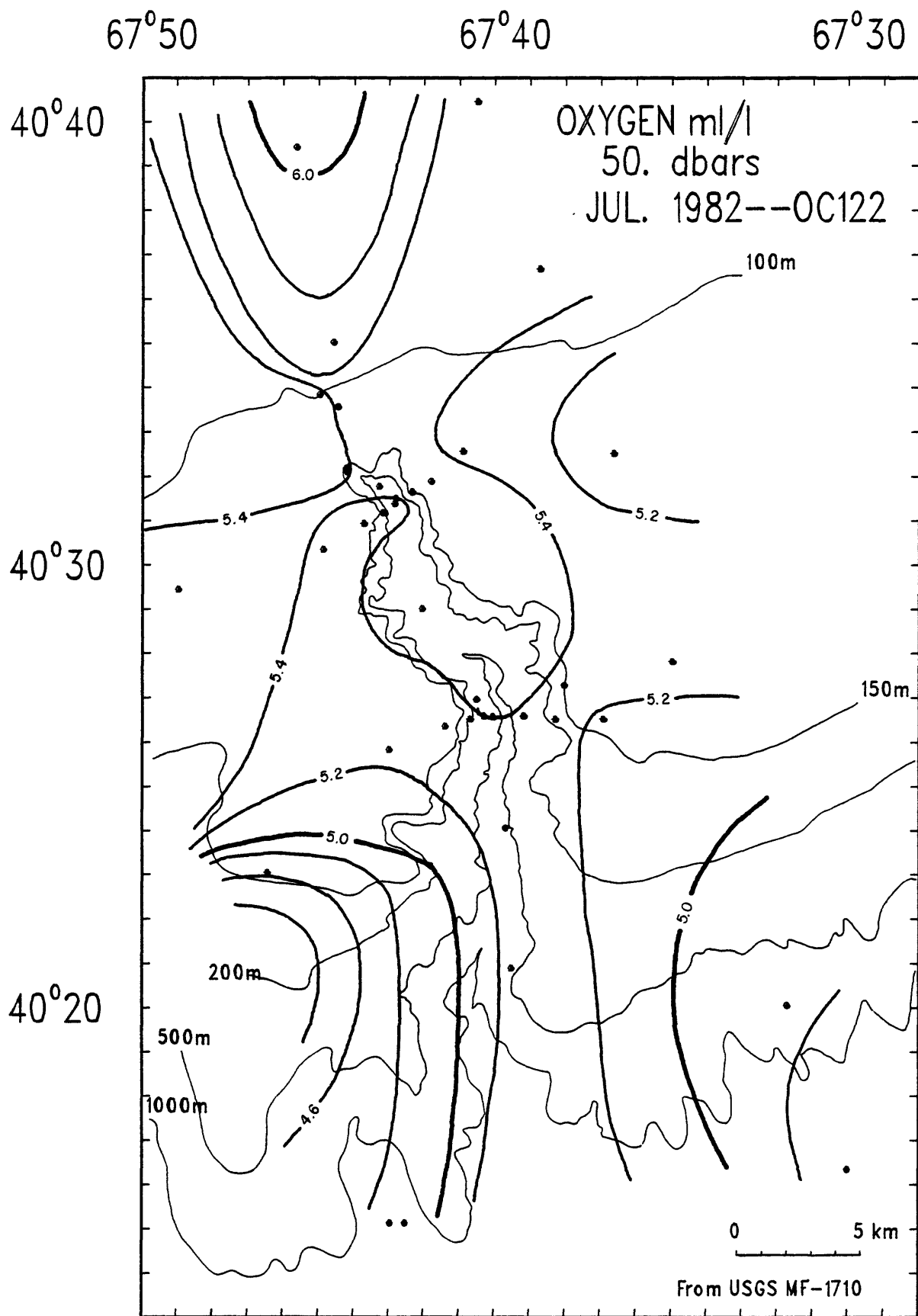


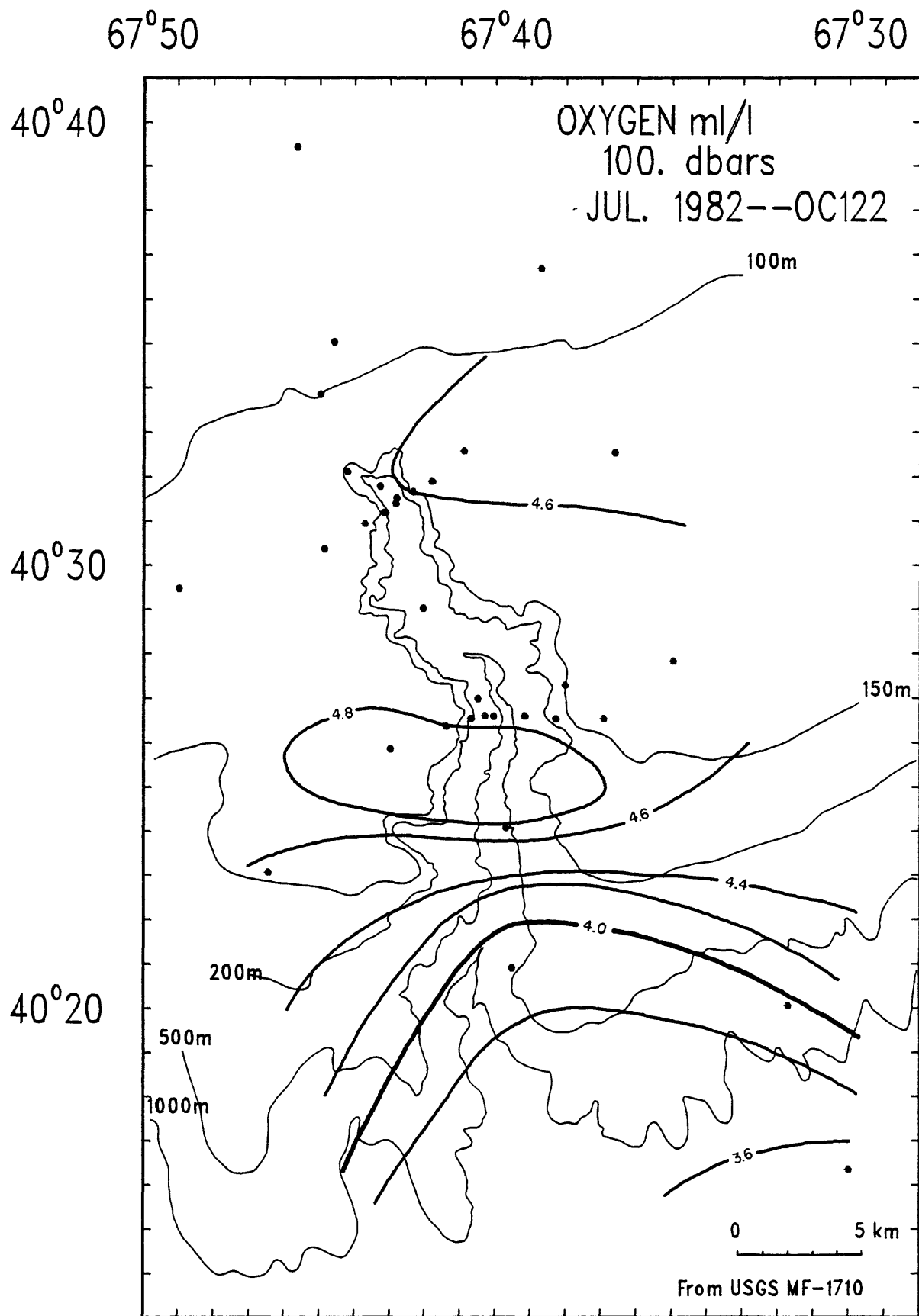


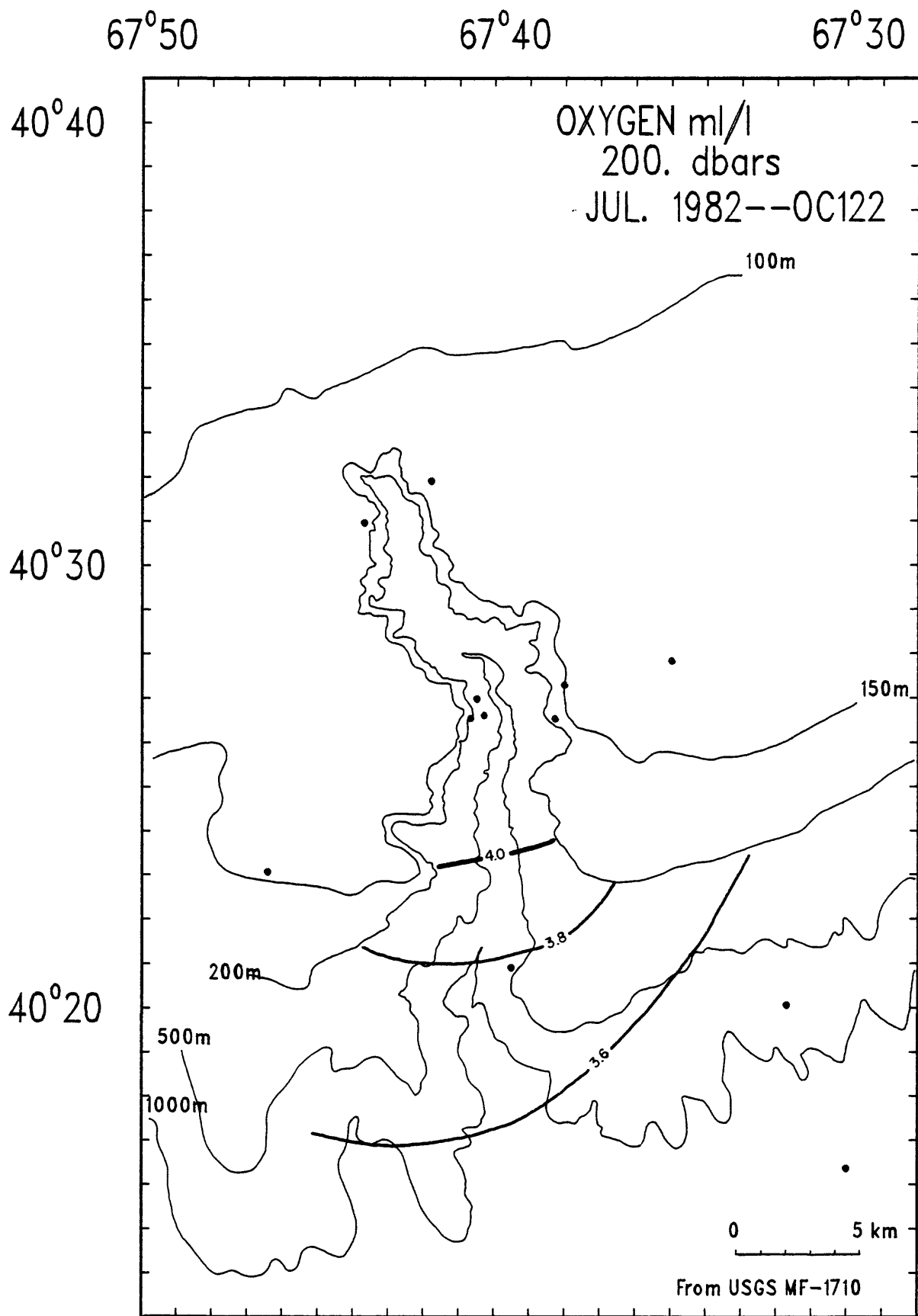


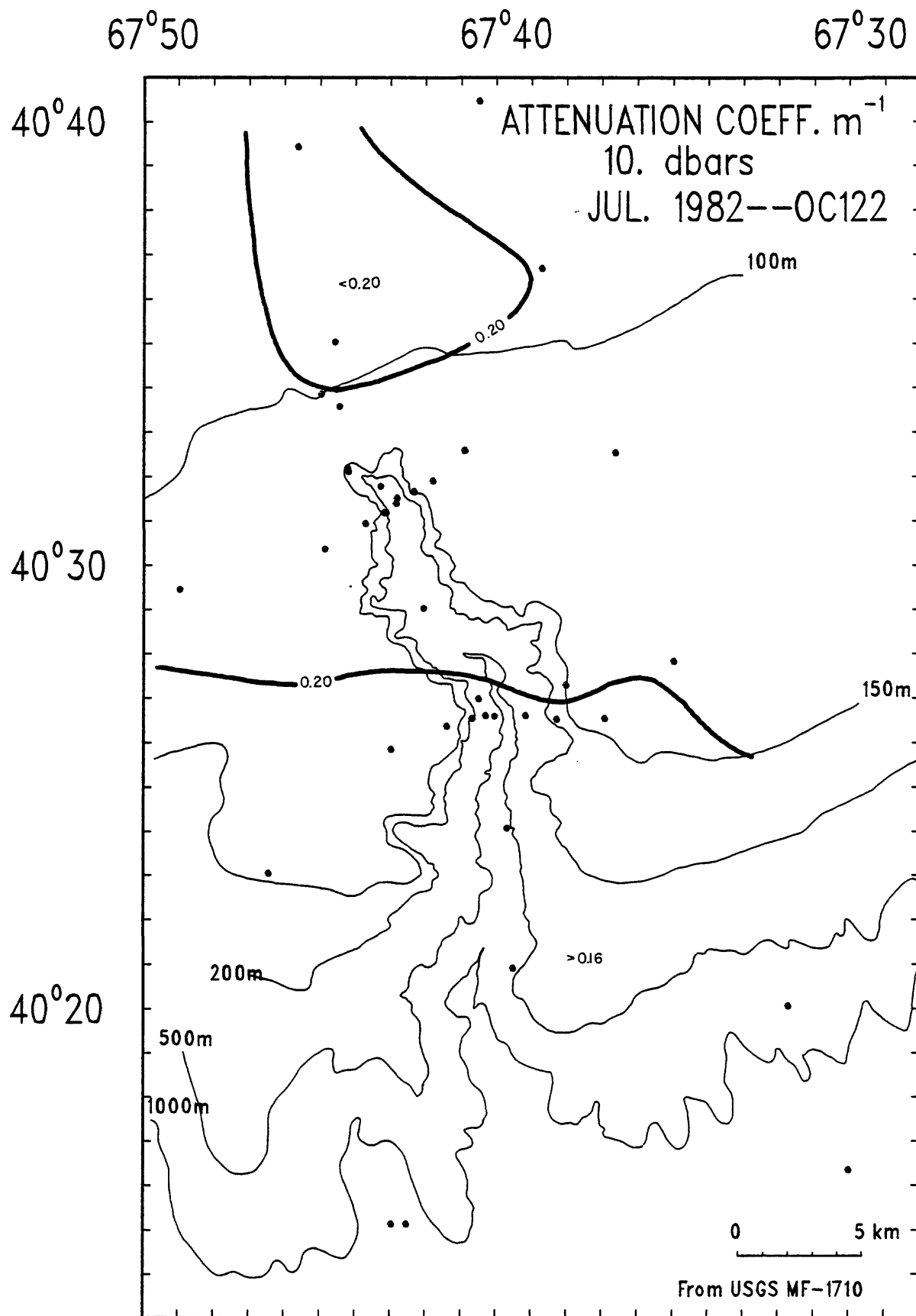


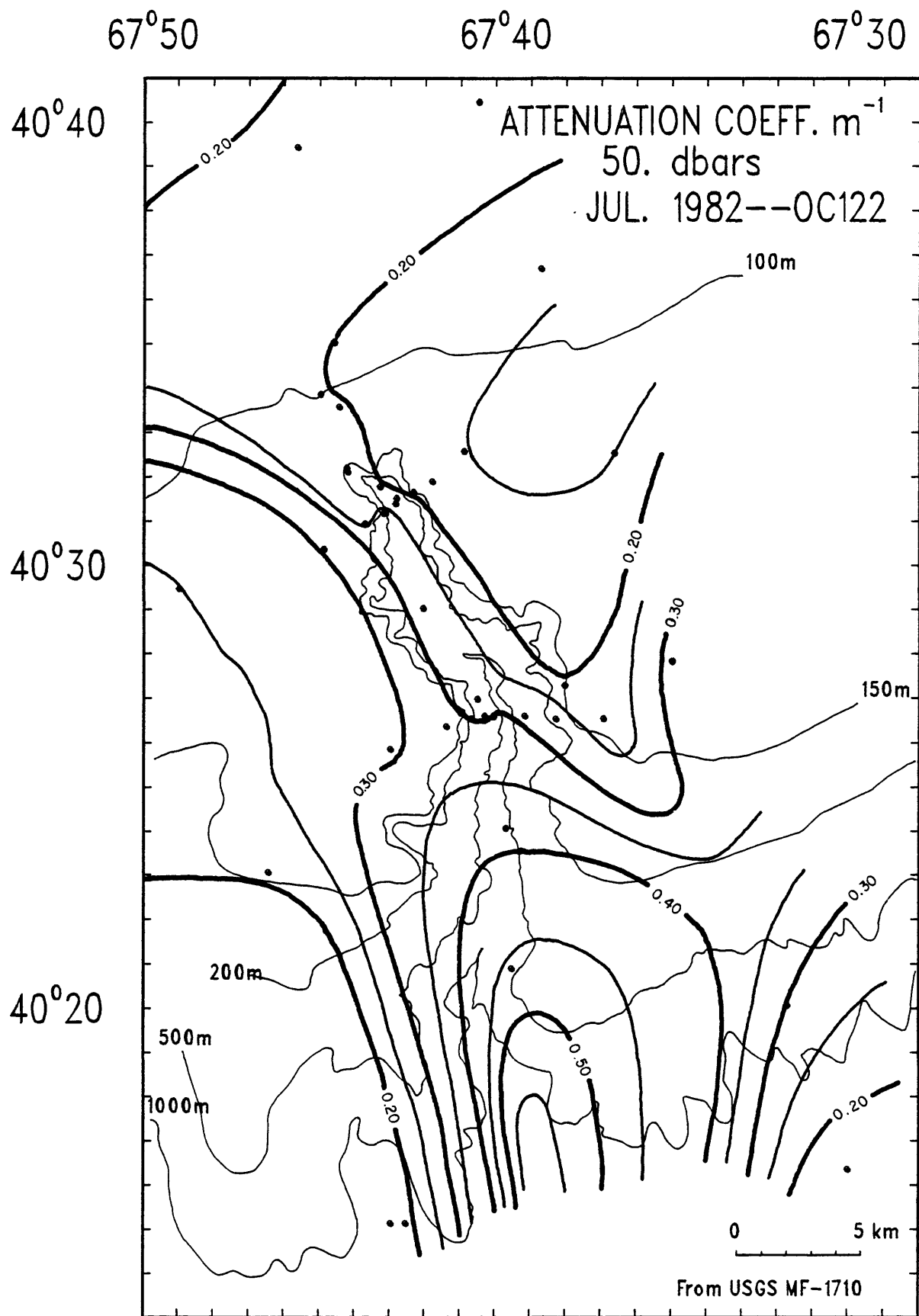


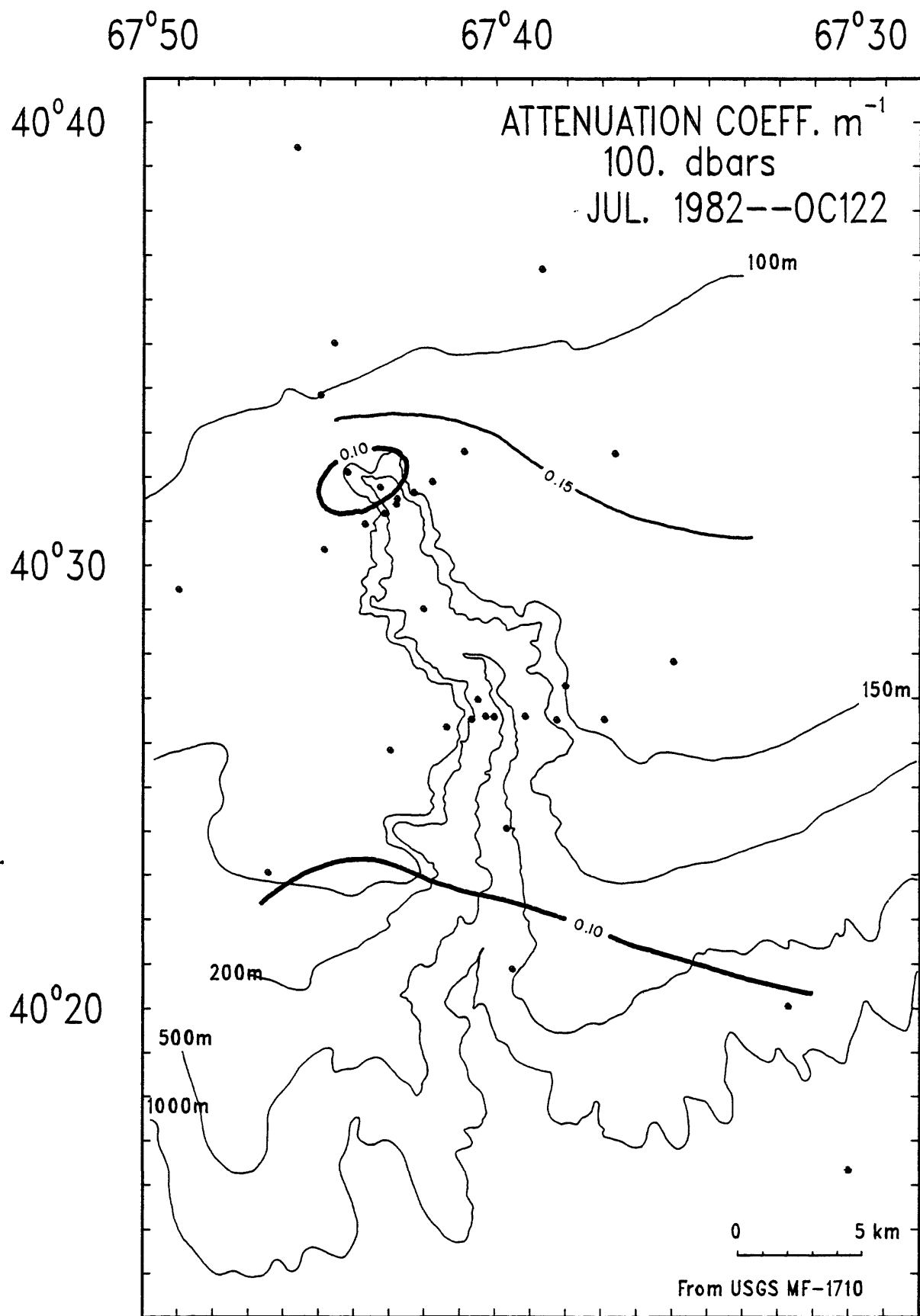


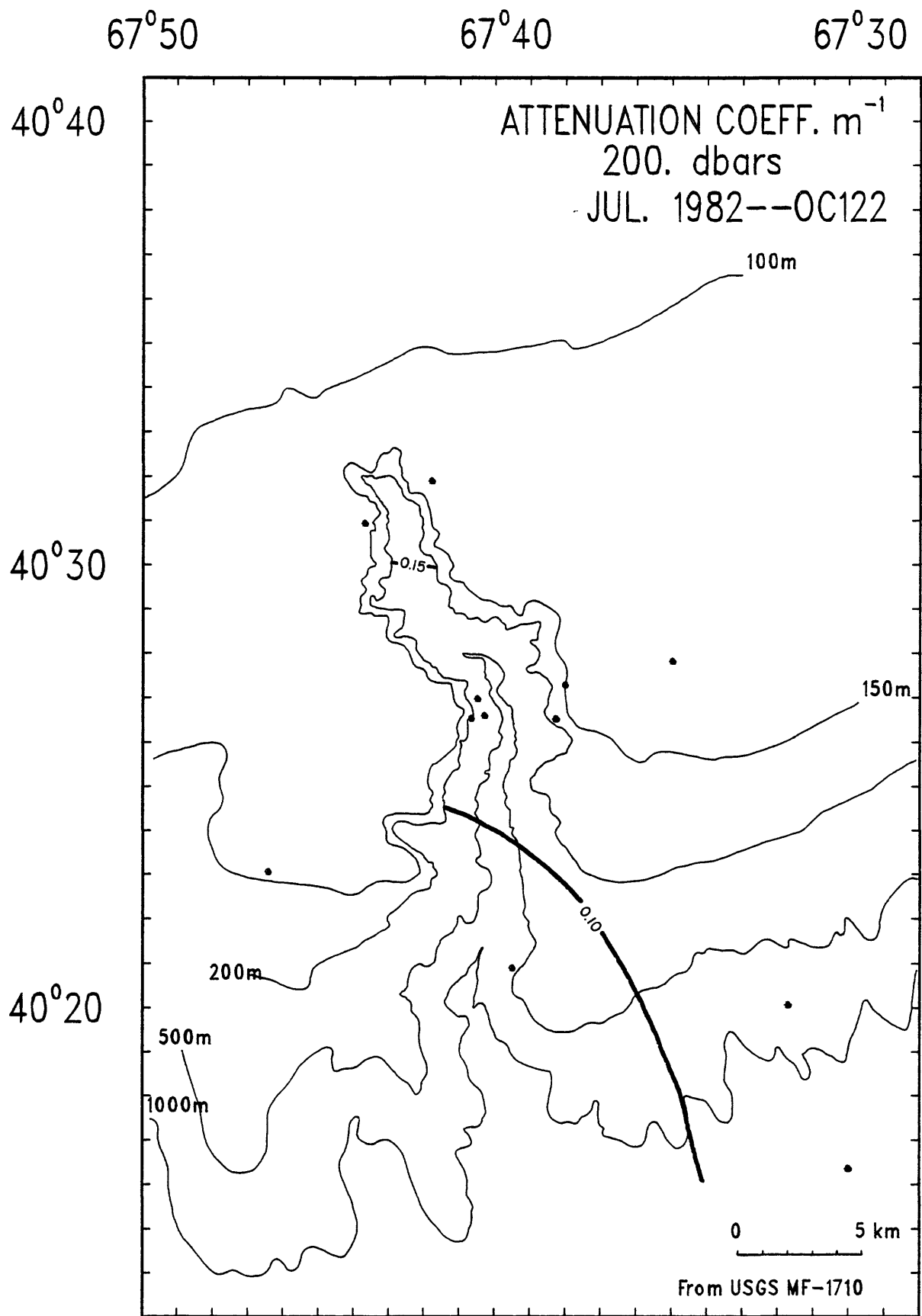


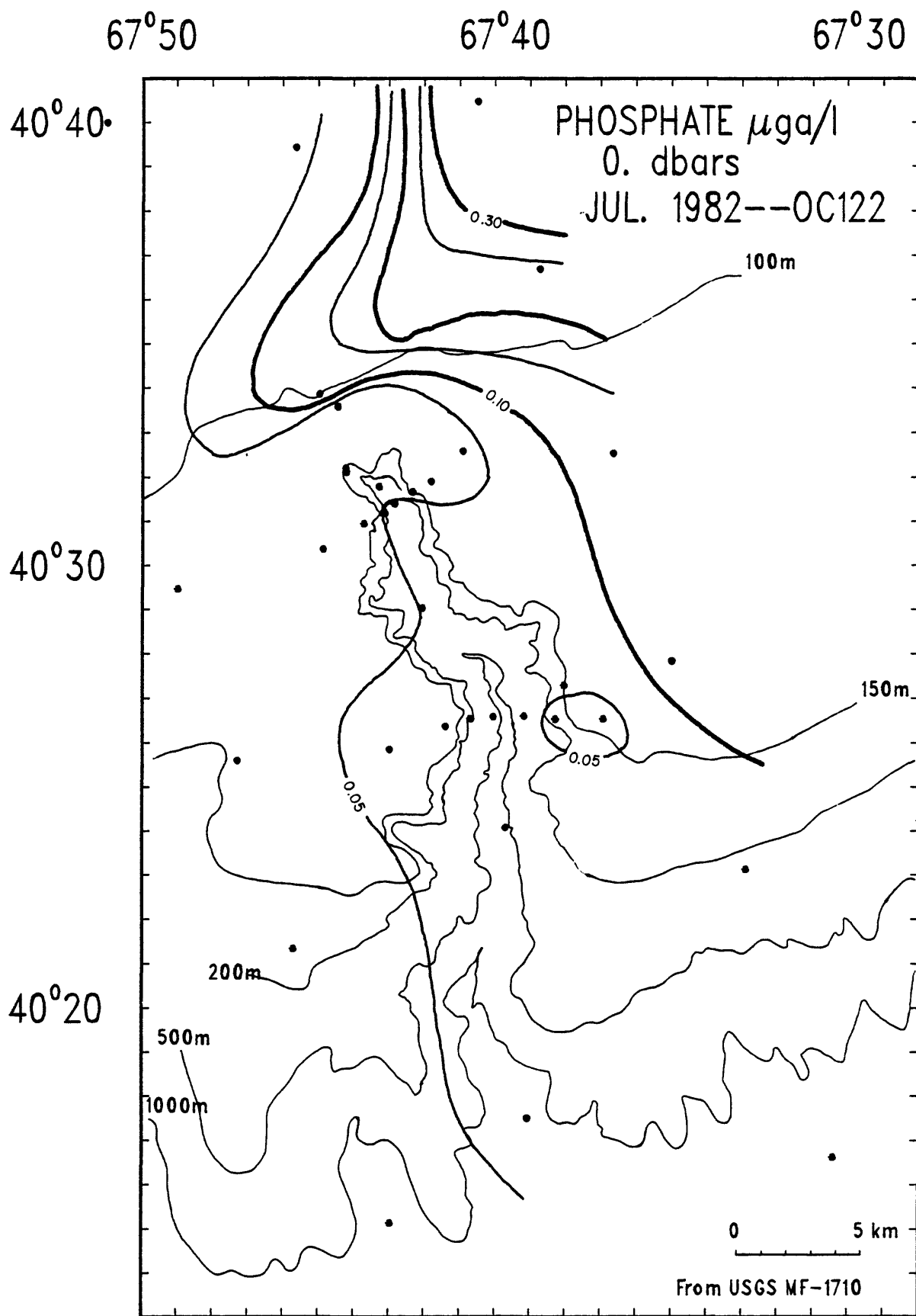


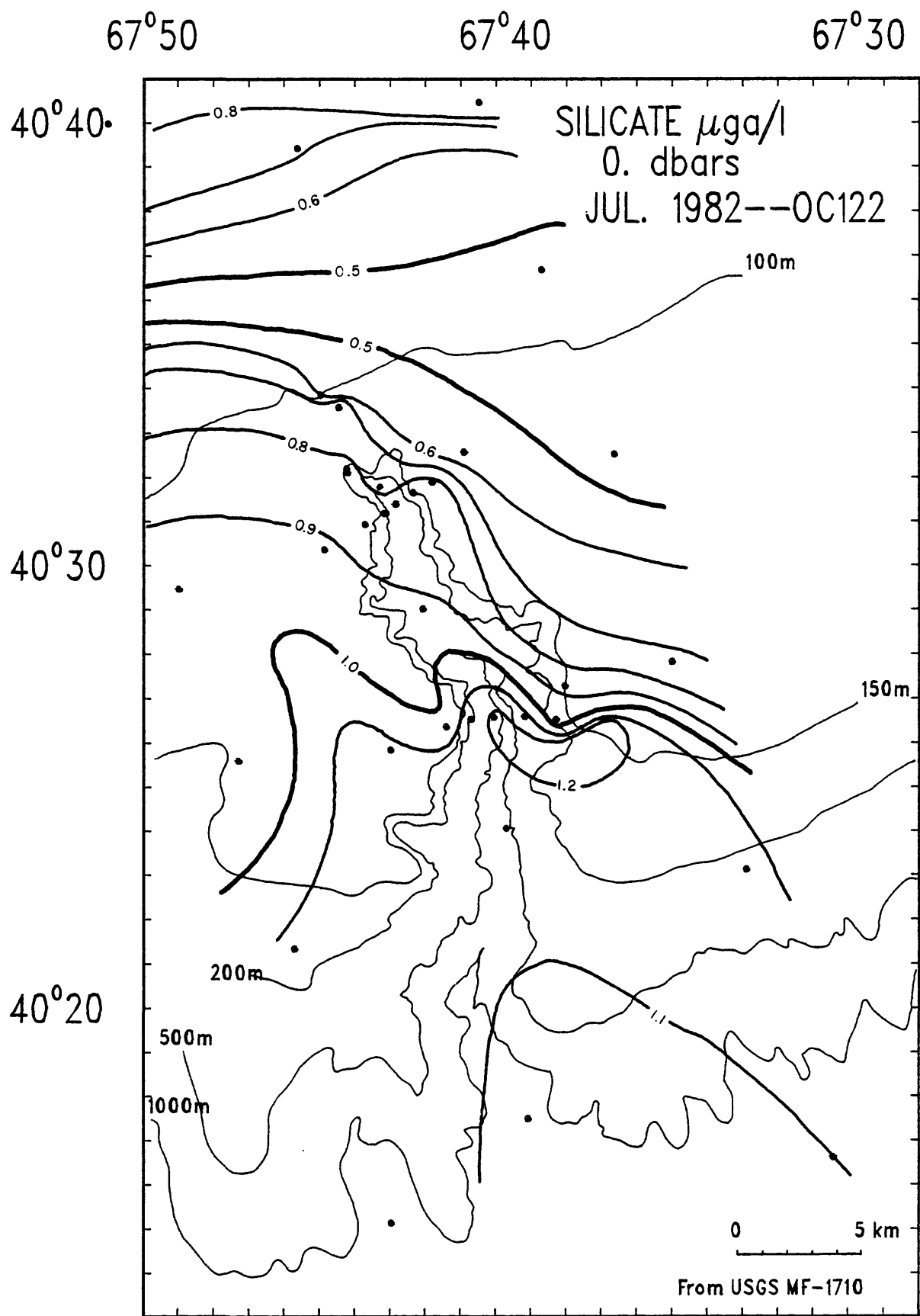


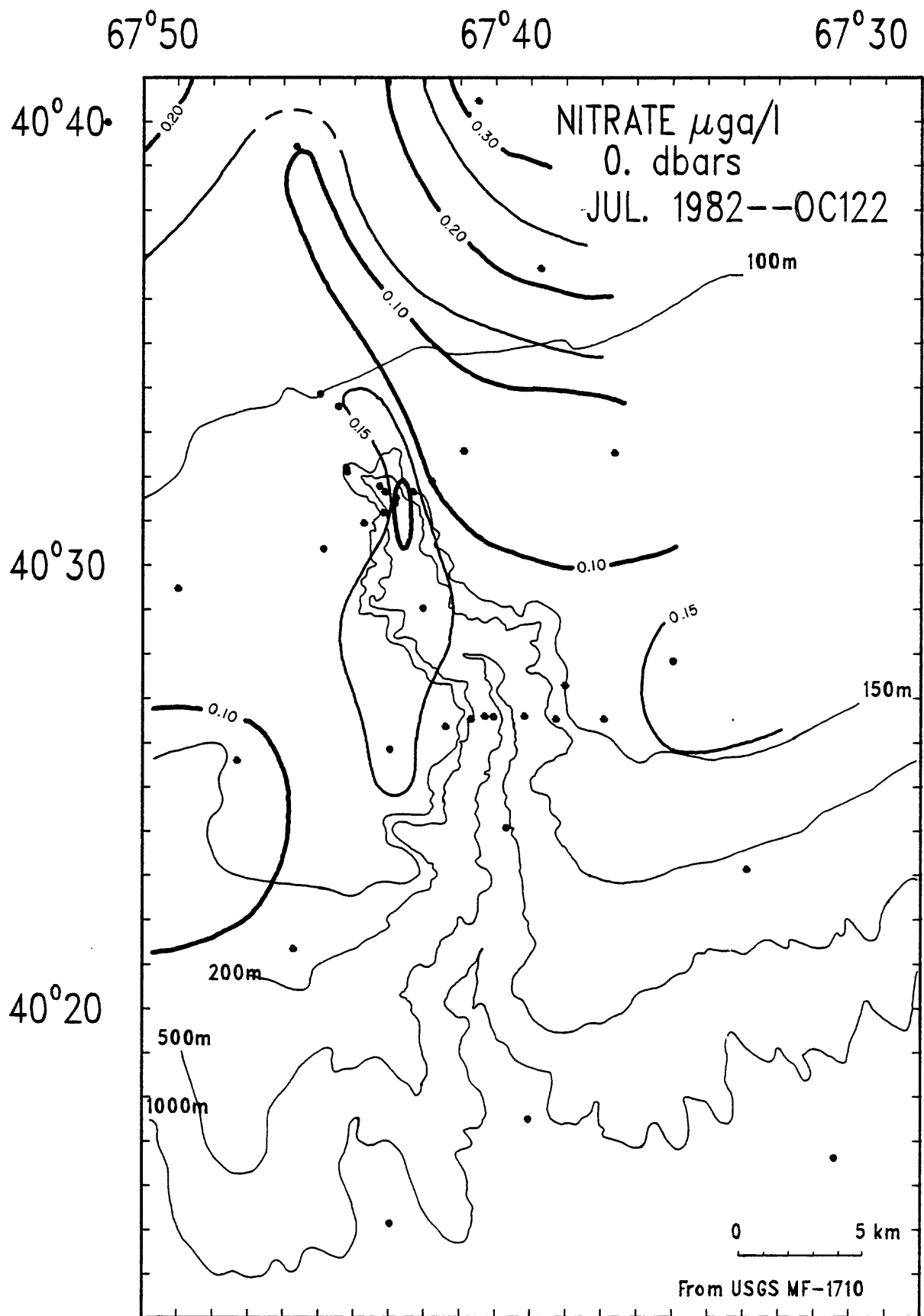


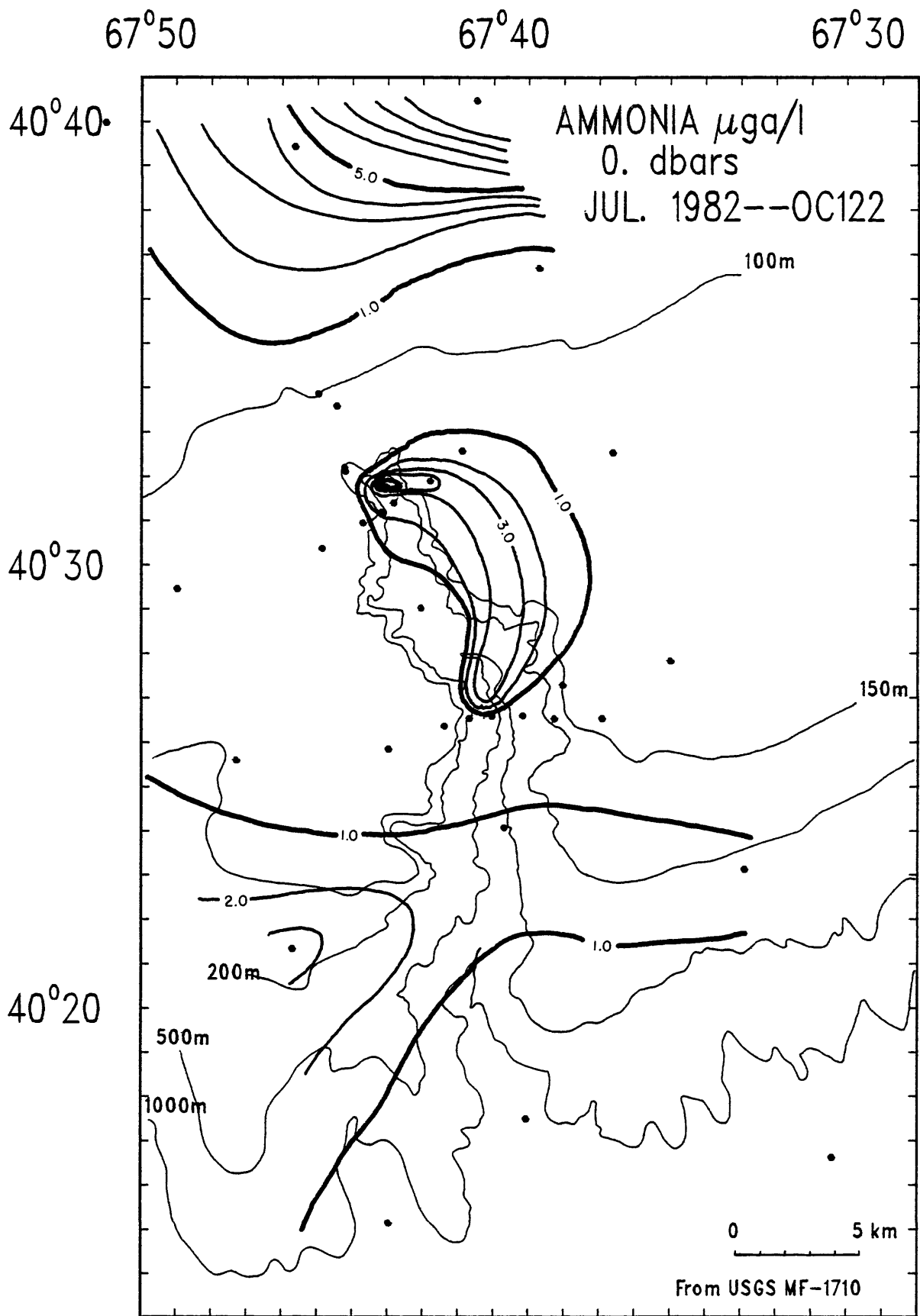








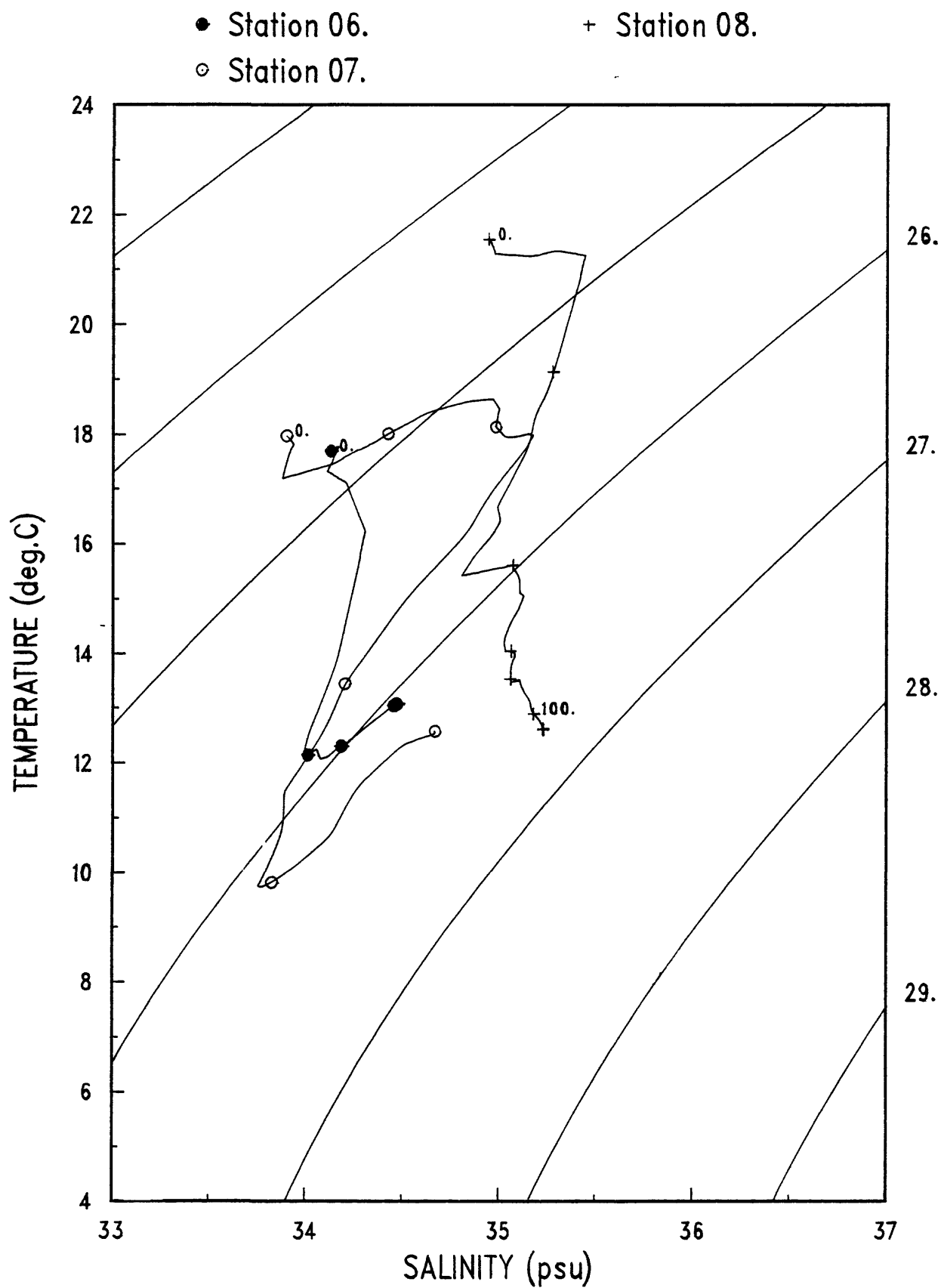




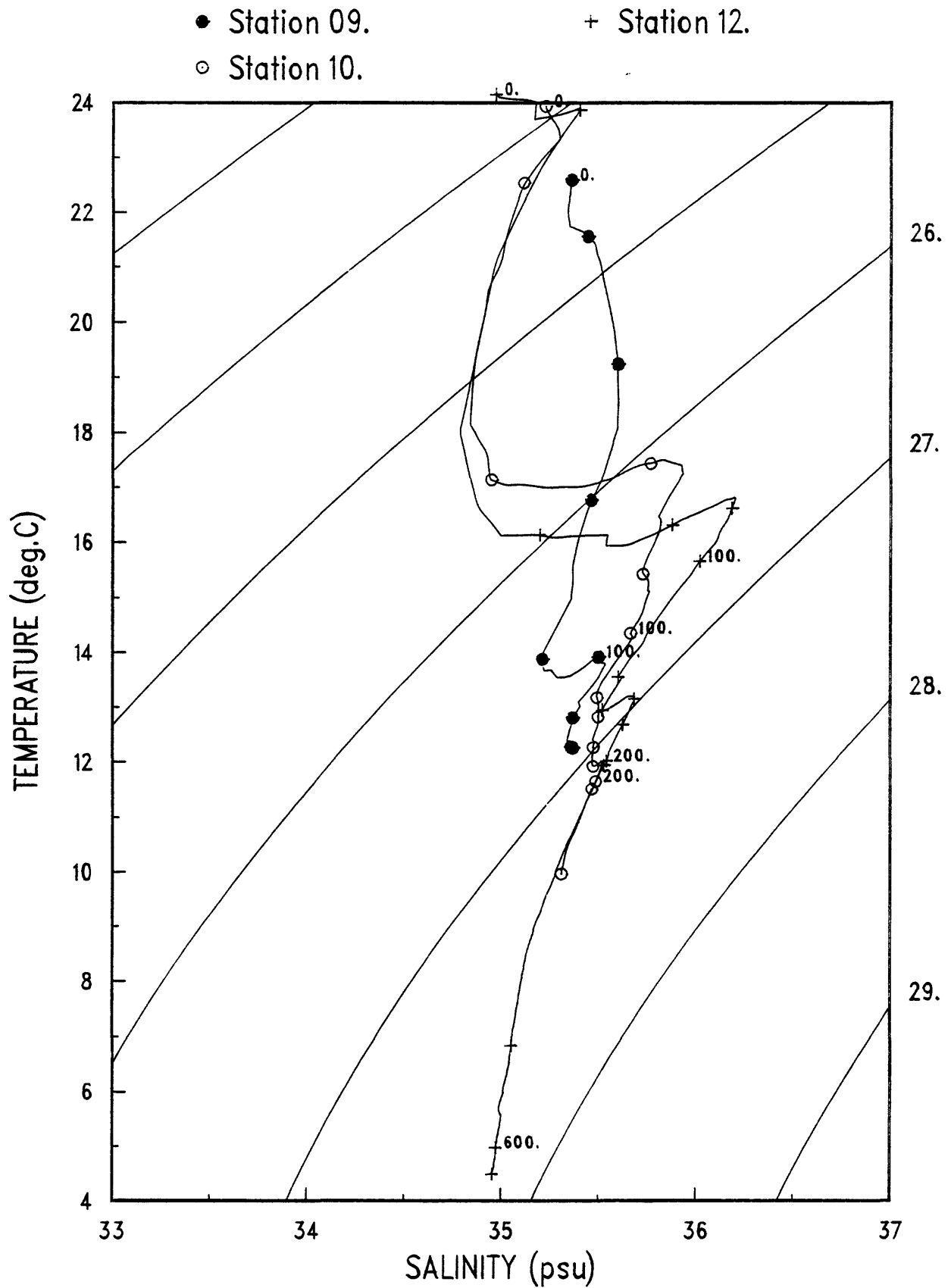
Temperature salinity diagrams

Plots of temperature vs. salinity are by section (see figs. 1 and 2). Each station is identified with a different symbol. The symbols are plotted every 20 dbars, and the 100-, 200-, and 600-dbar points have been labeled.

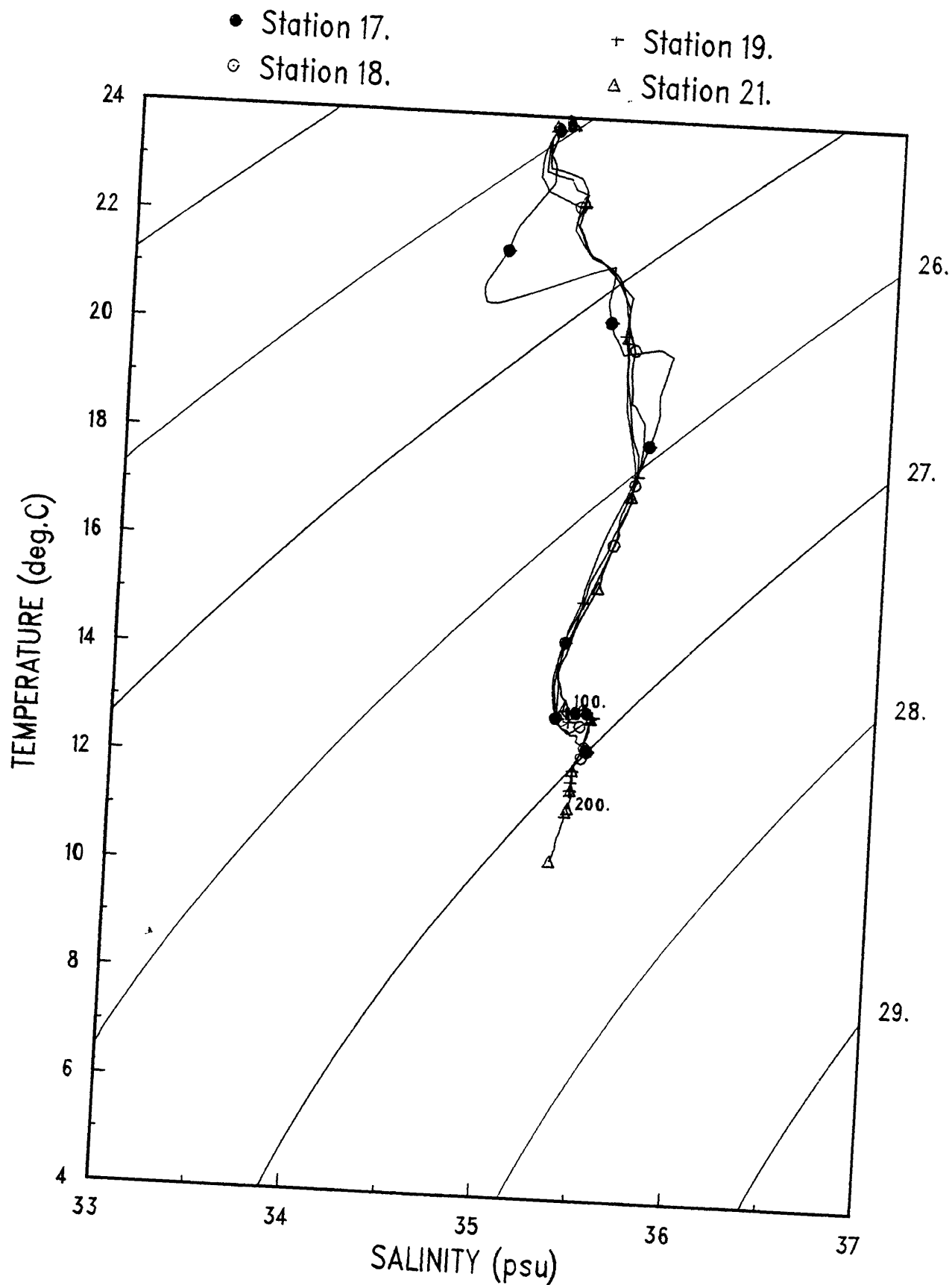
OC122--TS Diagram--Section 1



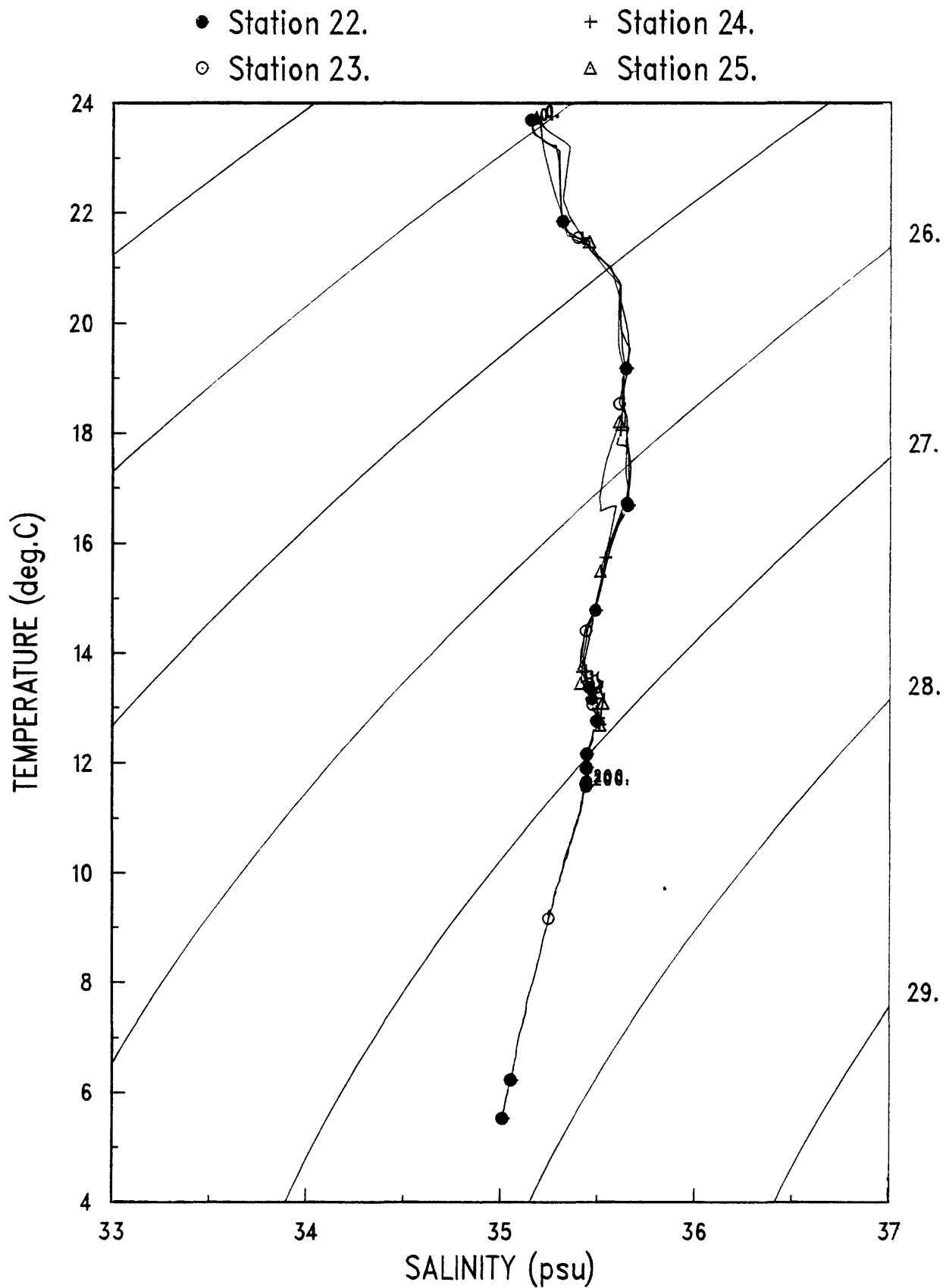
OC122--TS Diagram--Section 1



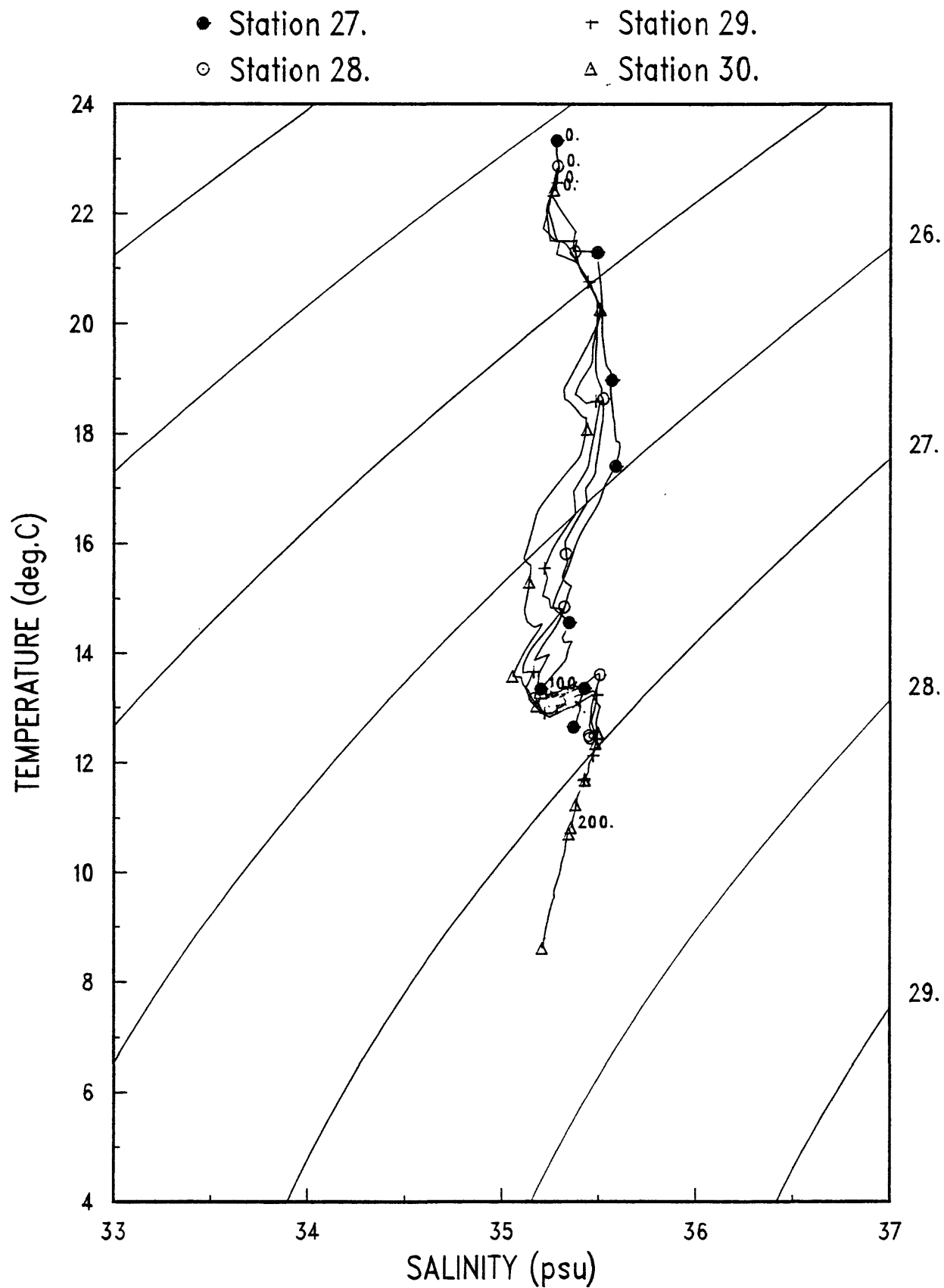
OC122--TS Diagram--Section 2



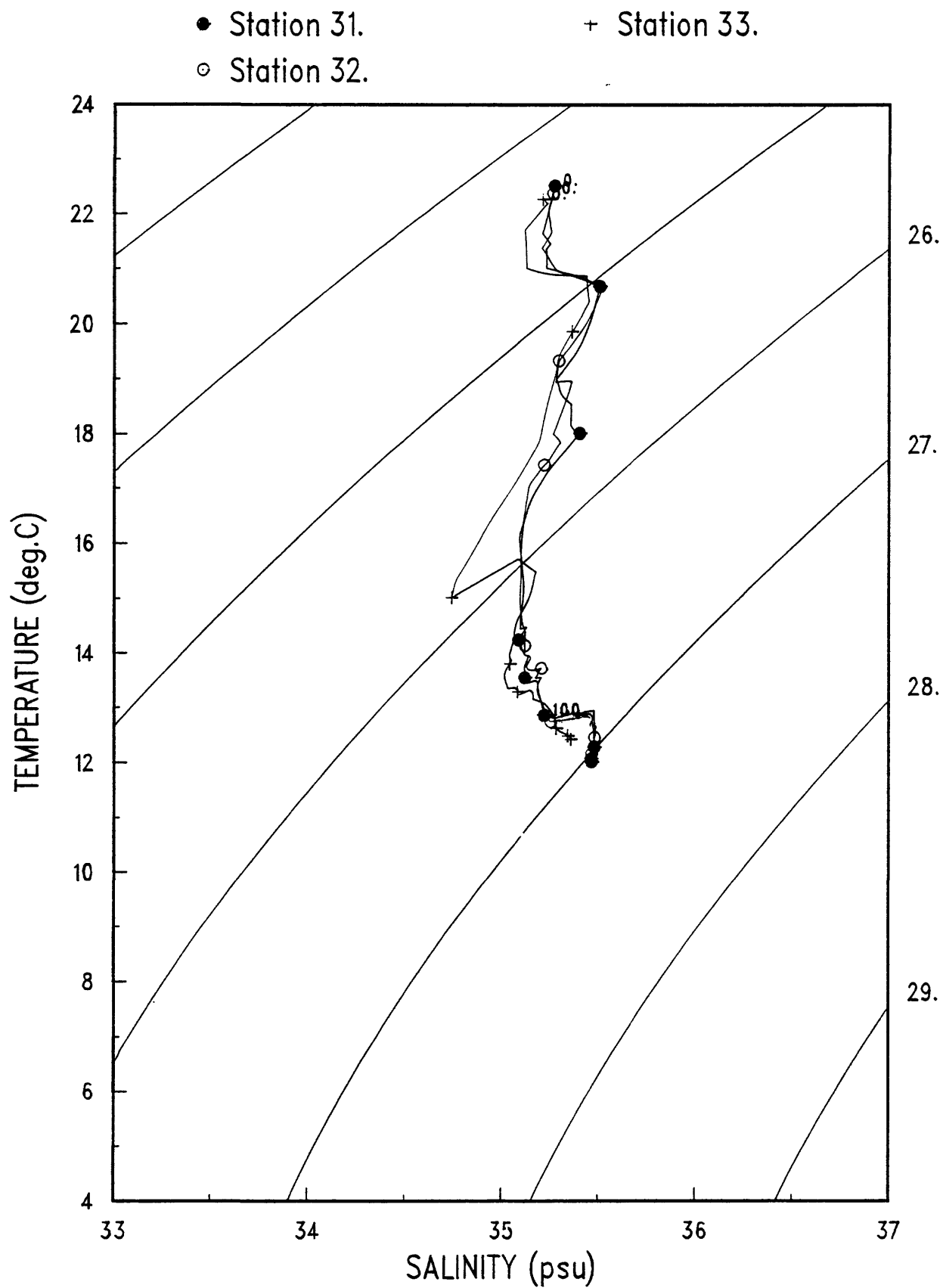
OC122--TS Diagram--Section 2



OC122--TS Diagram--Section 3

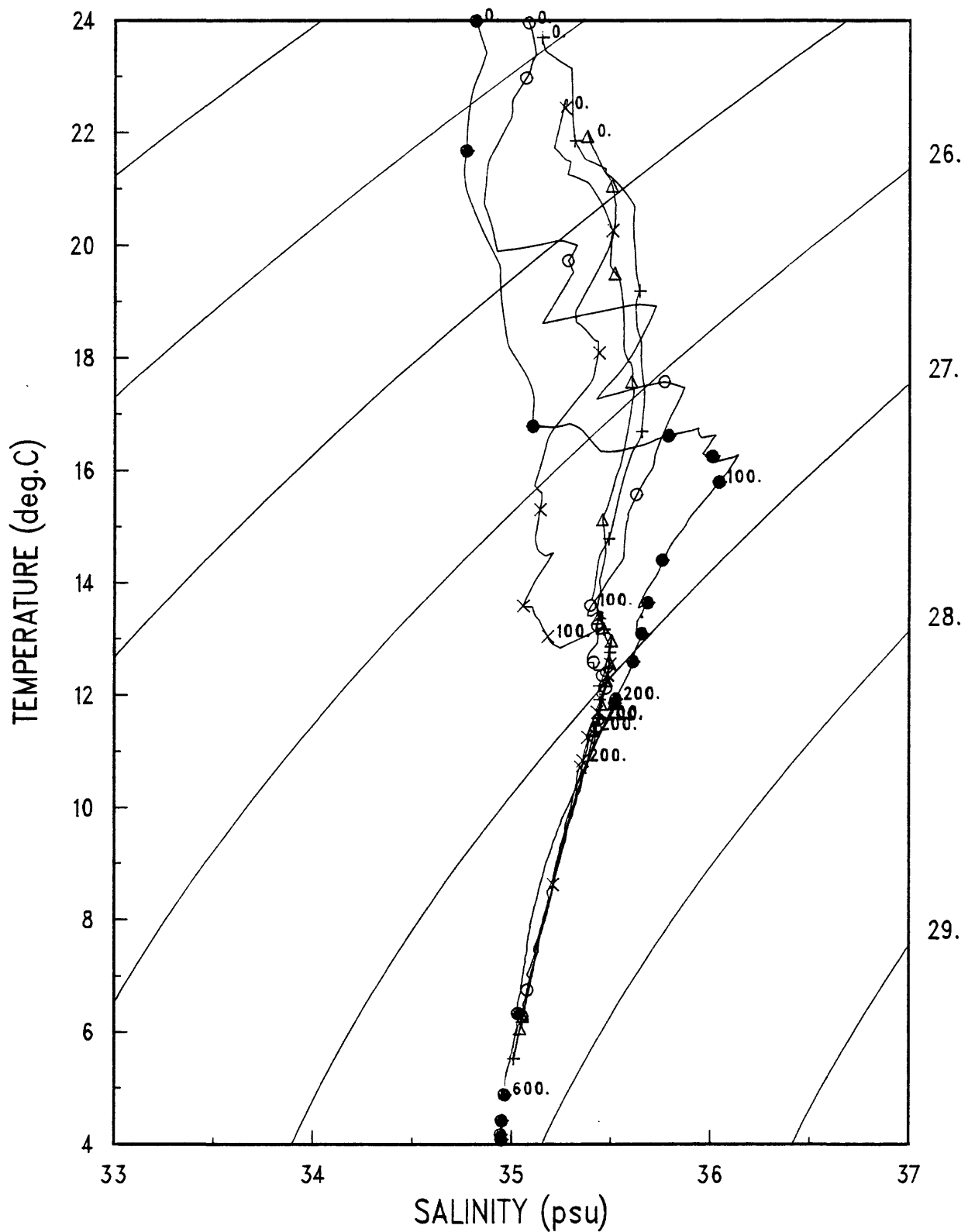


OC122--TS Diagram--Section 3



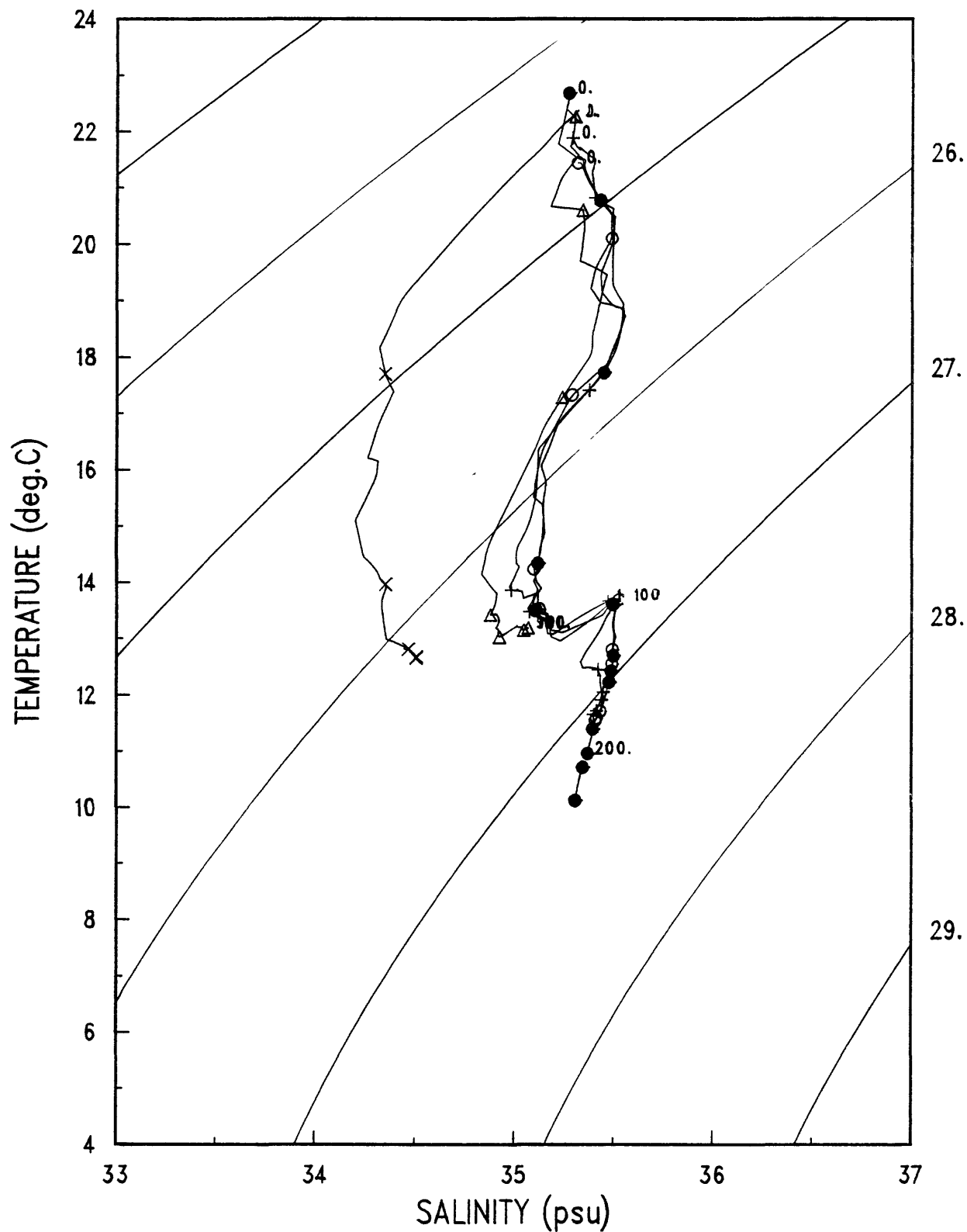
OC122--TS Diagram--Section 4

- Station 14.
- Station 16.
- + Station 22.
- △ Station 26.
- × Station 30.



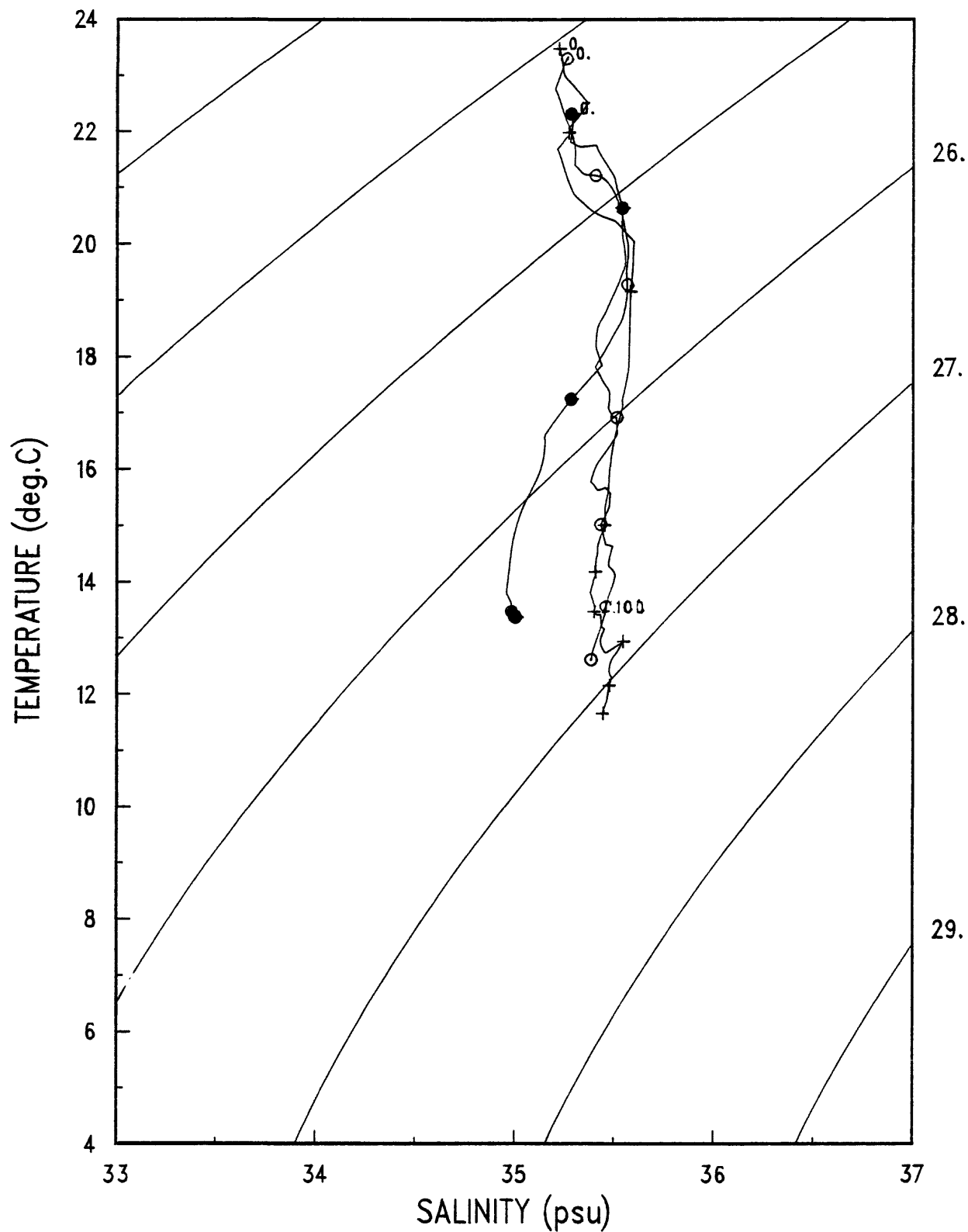
OC122--TS Diagram--Section 4

- Station 34.
- Station 35.
- + Station 36.
- △ Station 38.
- × Station 40.

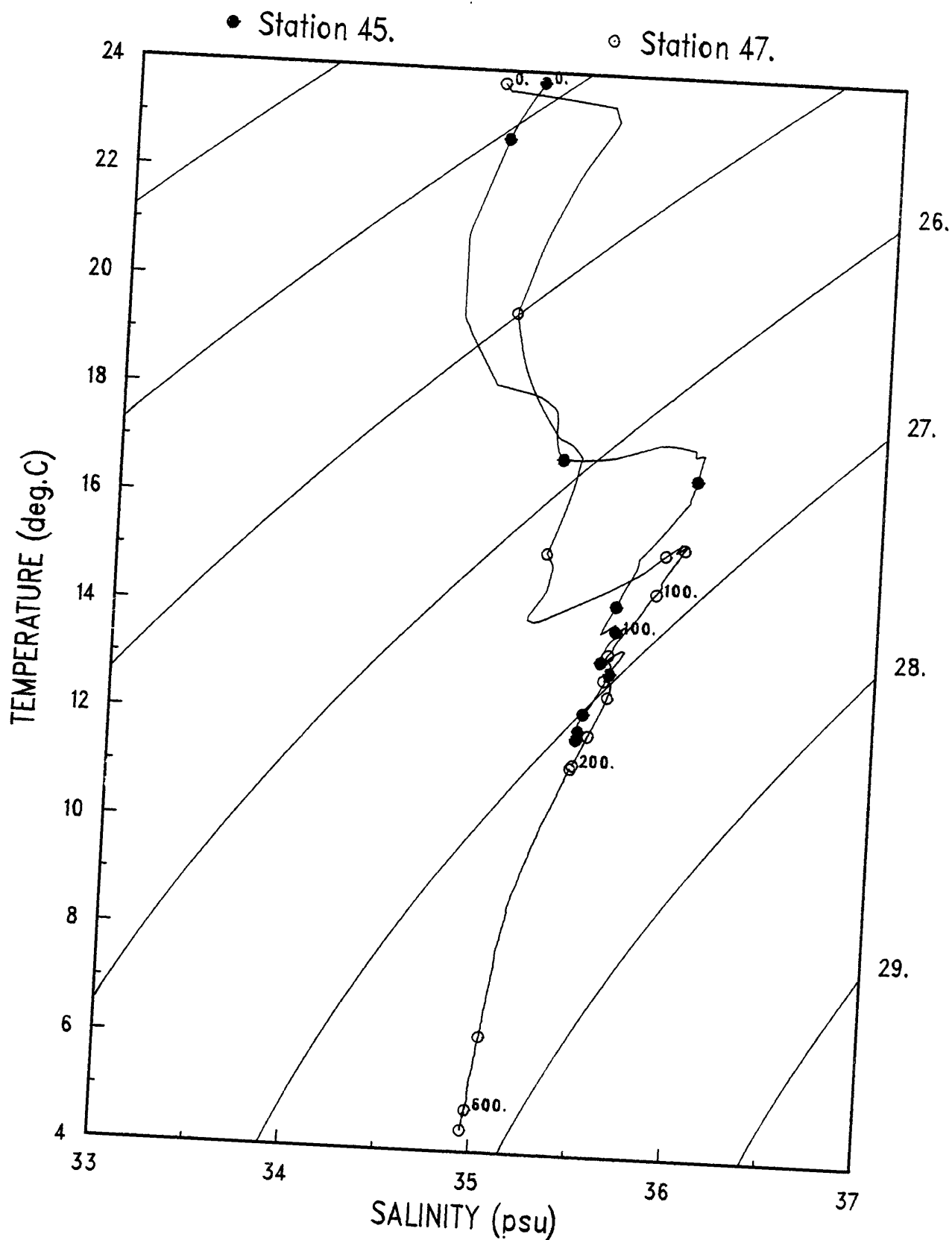


OC122--TS Diagram--Section 5

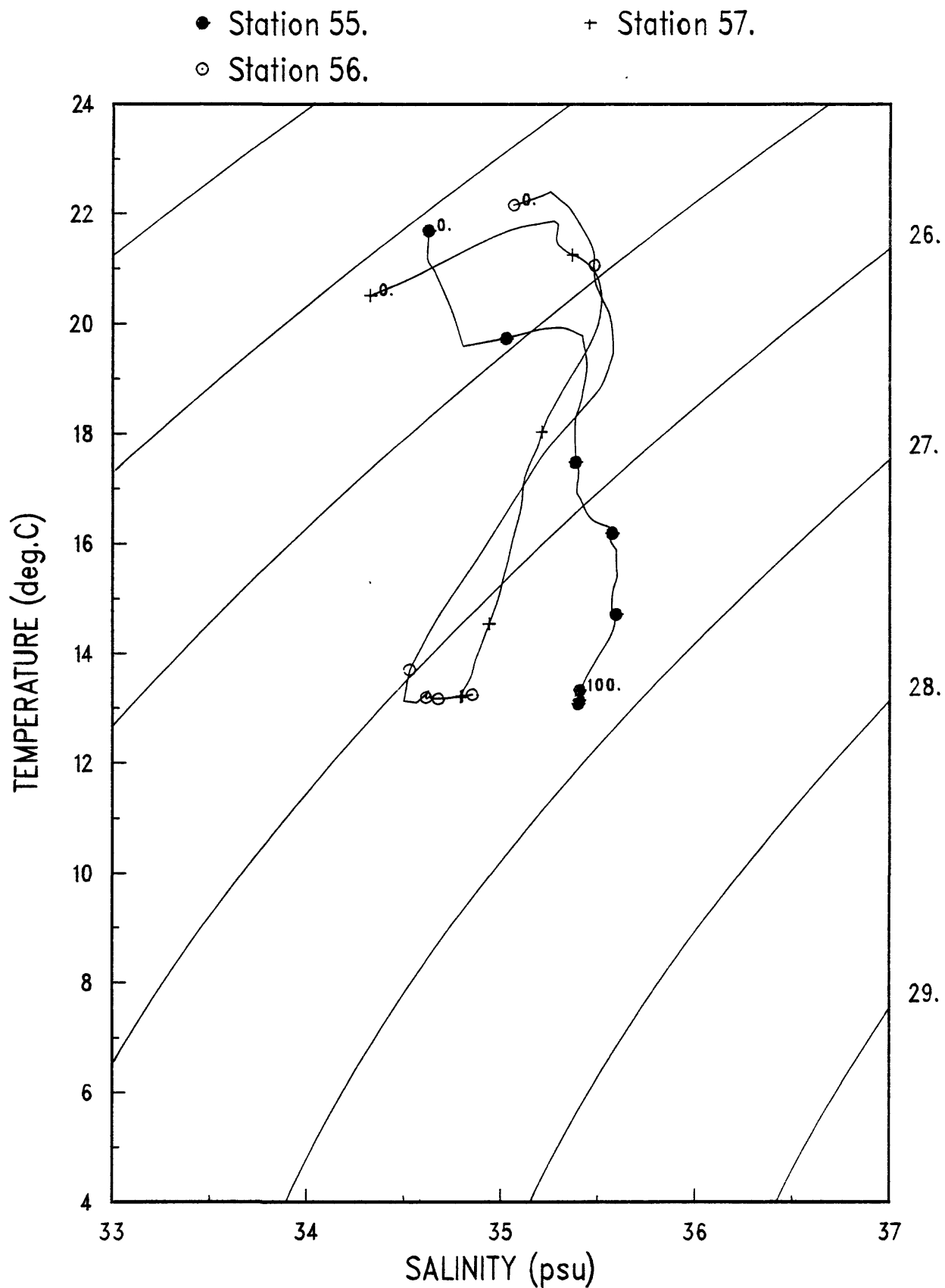
- Station 41.
+ Station 43.
○ Station 42.



OC122--TS Diagram--Section 5



OC122--TS Diagram--Section 6

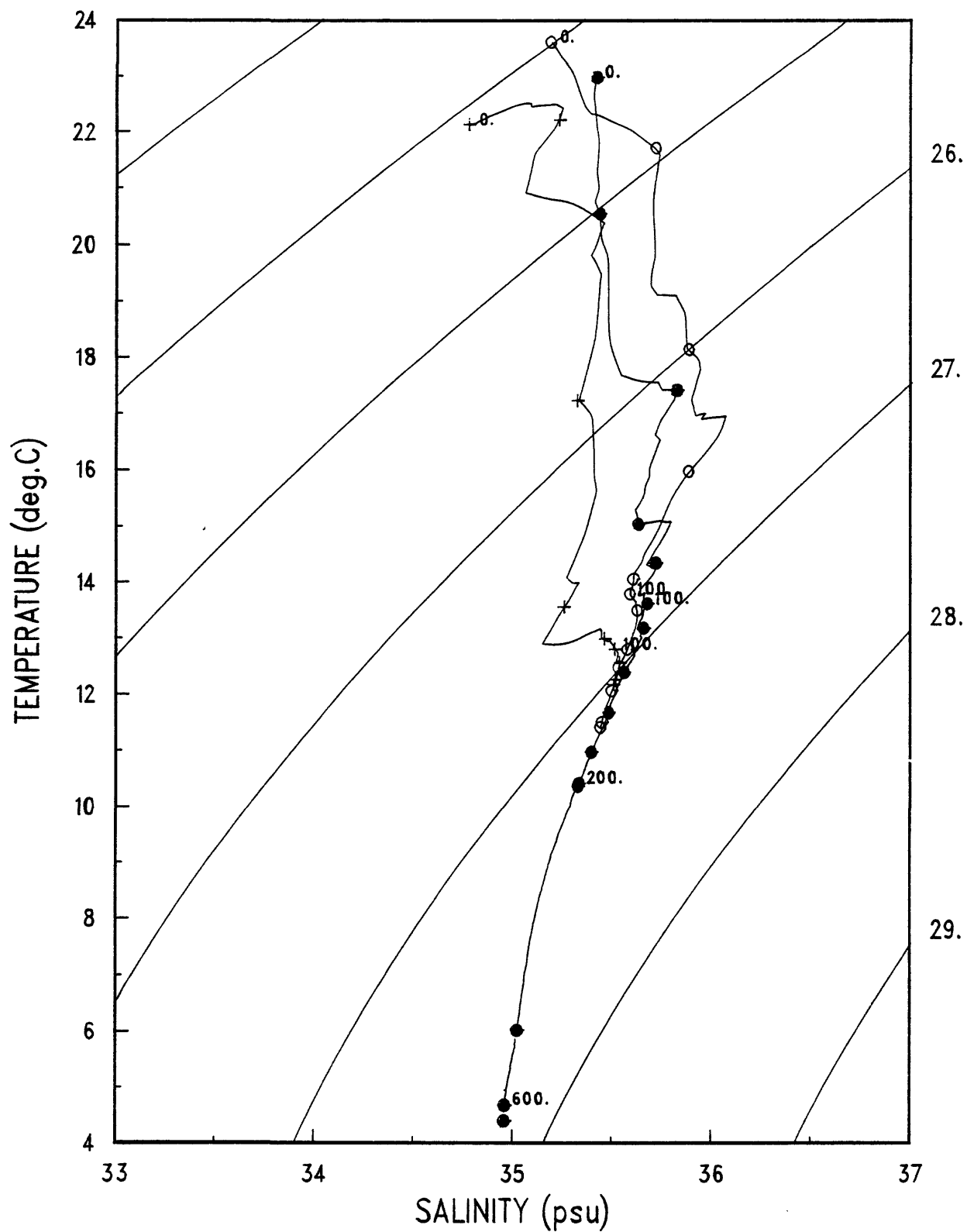


OC122--TS Diagram--Section 6

● Station 49.

+ Station 54.

○ Station 52.

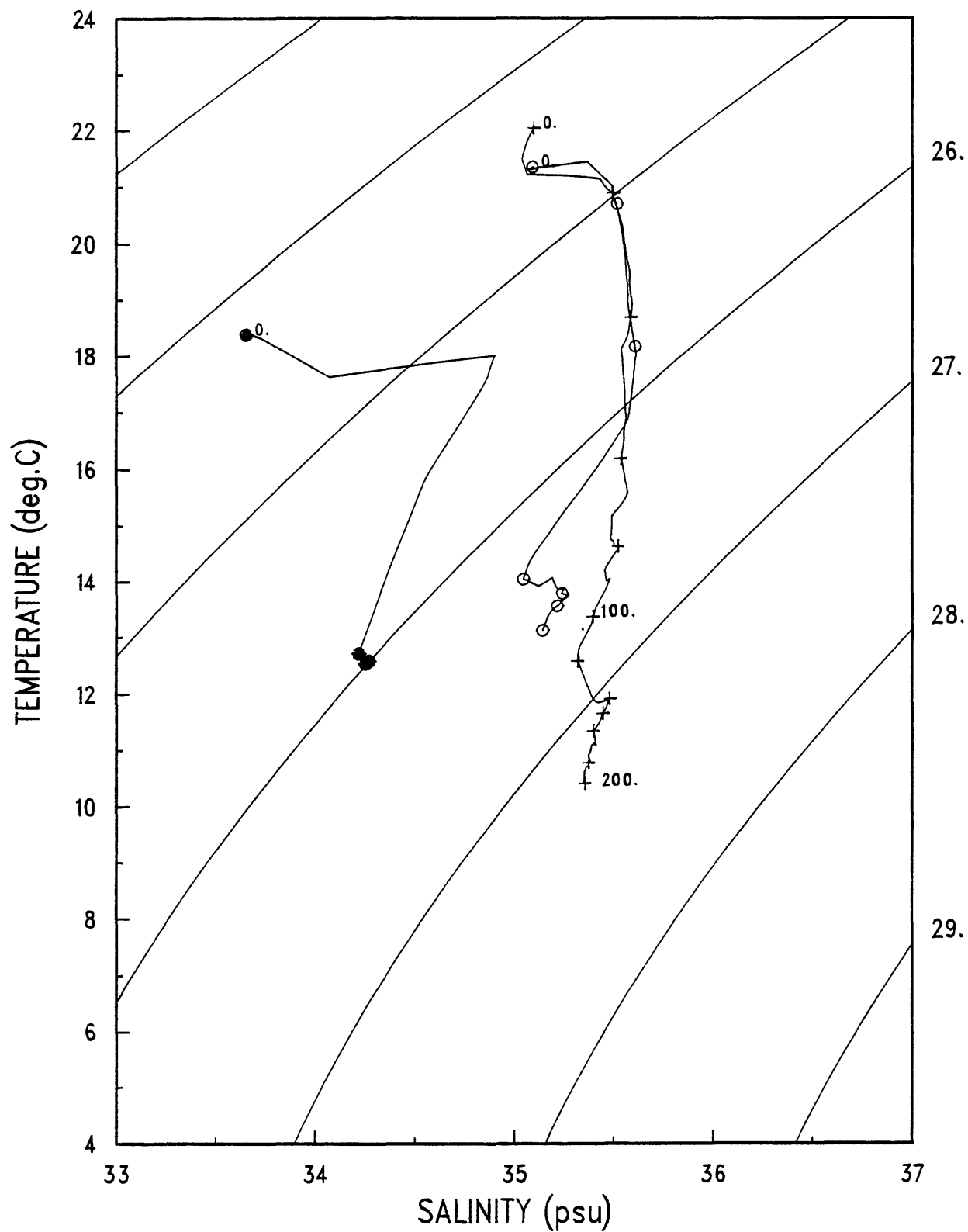


OC122--TS Diagram--Section 7

● Station 58.

+ Station 64.

○ Station 60.

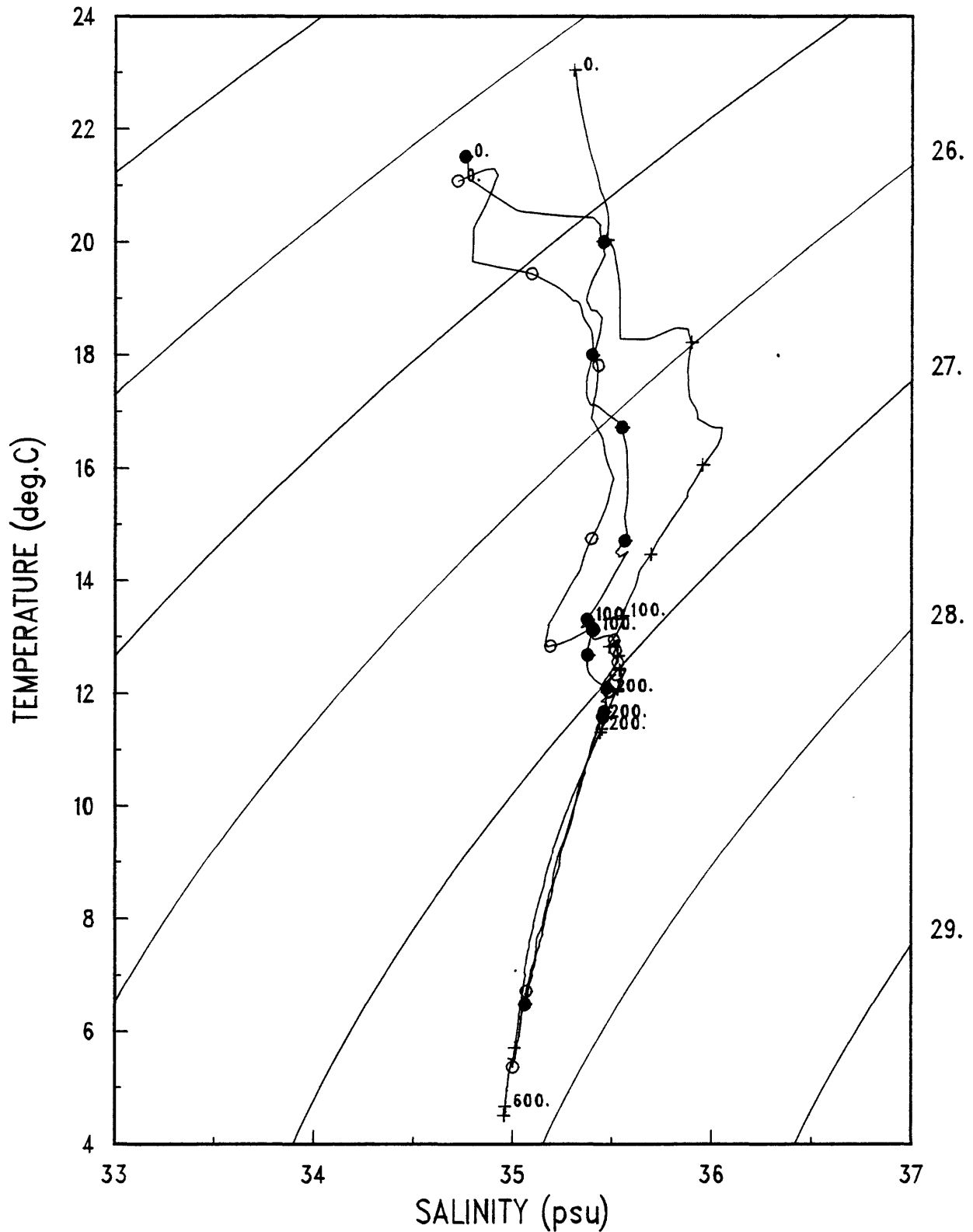


OC122--TS Diagram--Section 7

● Station 68.

+ Station 80.

○ Station 74.

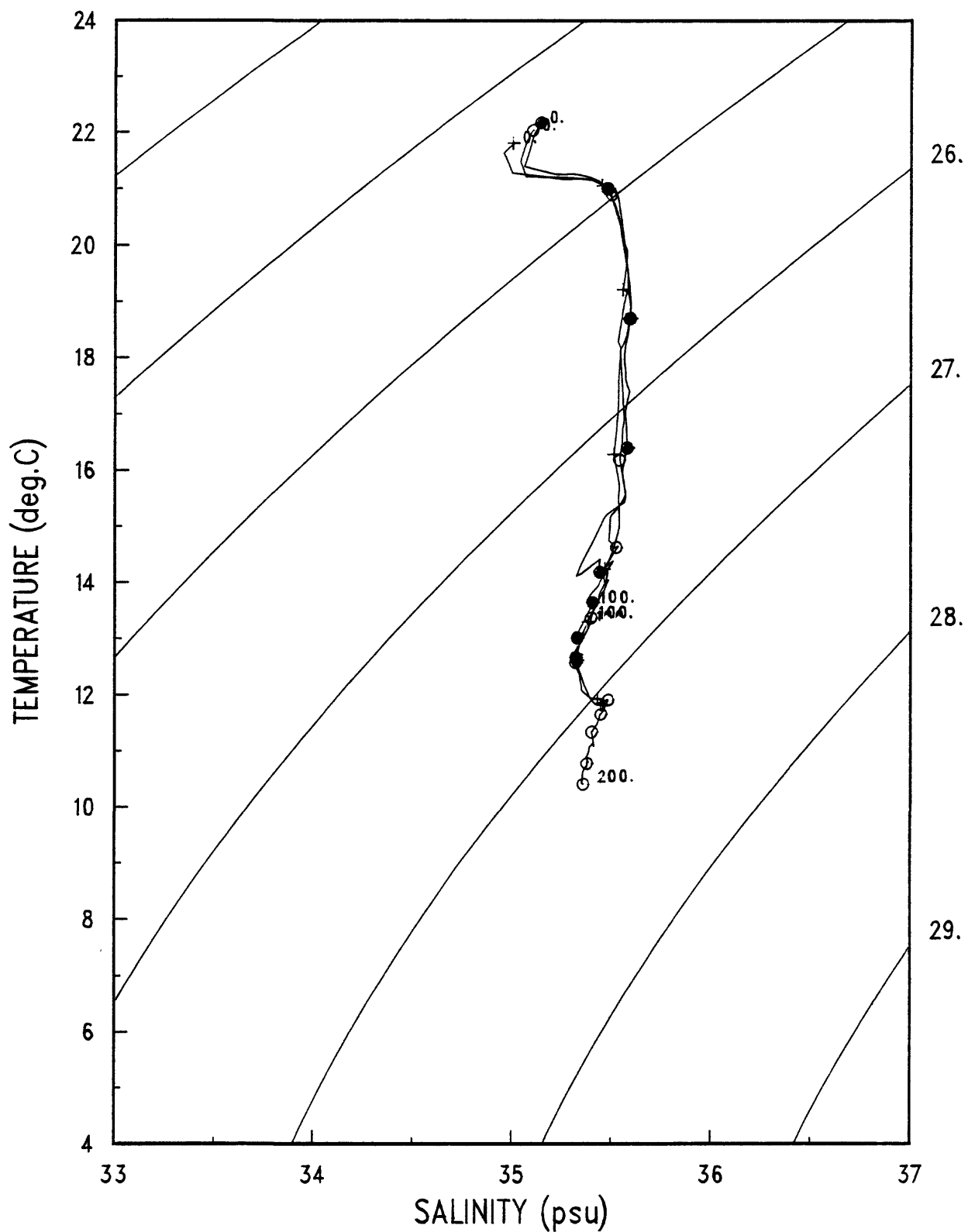


OC122--TS Diagram--Section 8

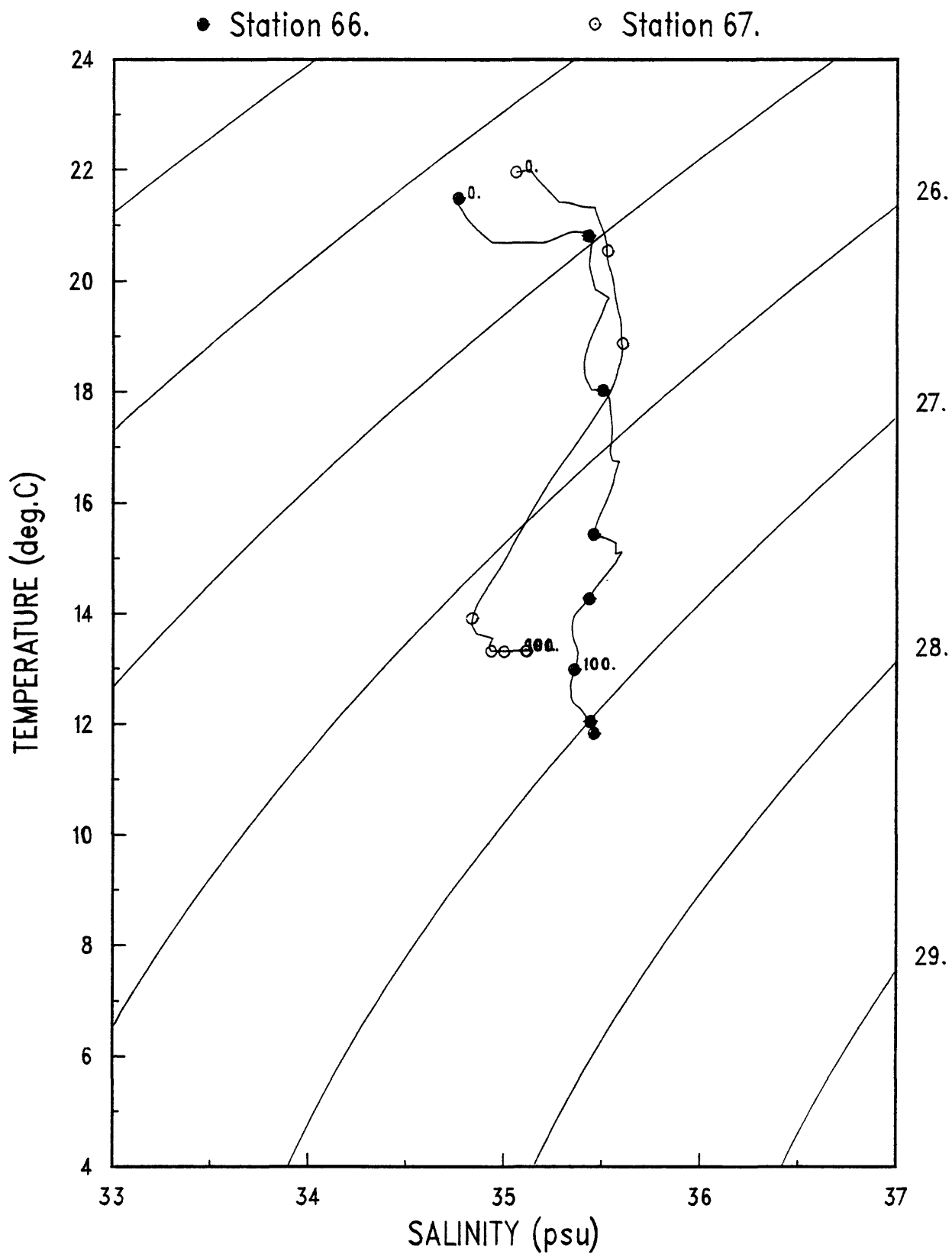
● Station 62.

+ Station 65.

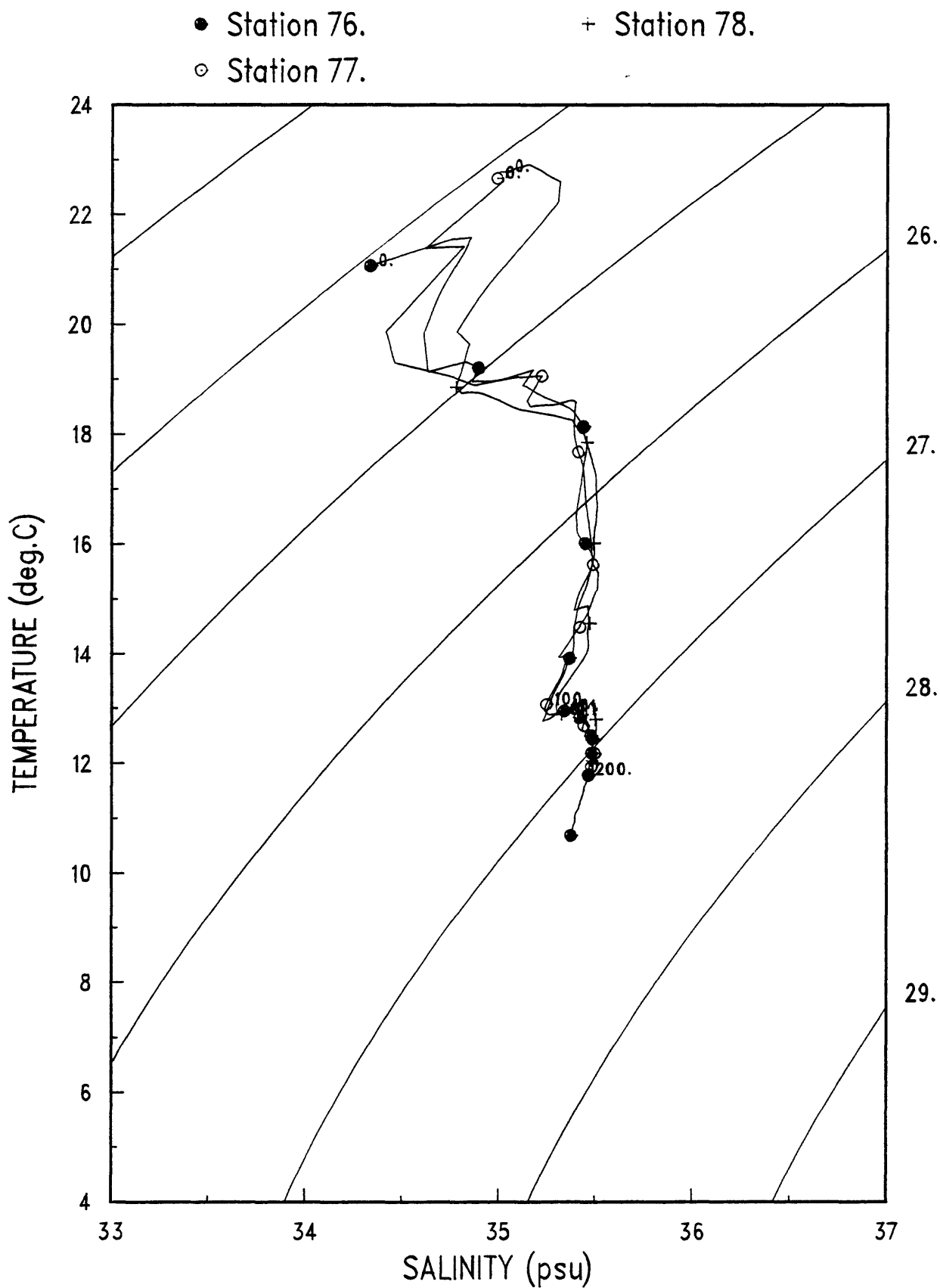
○ Station 64.



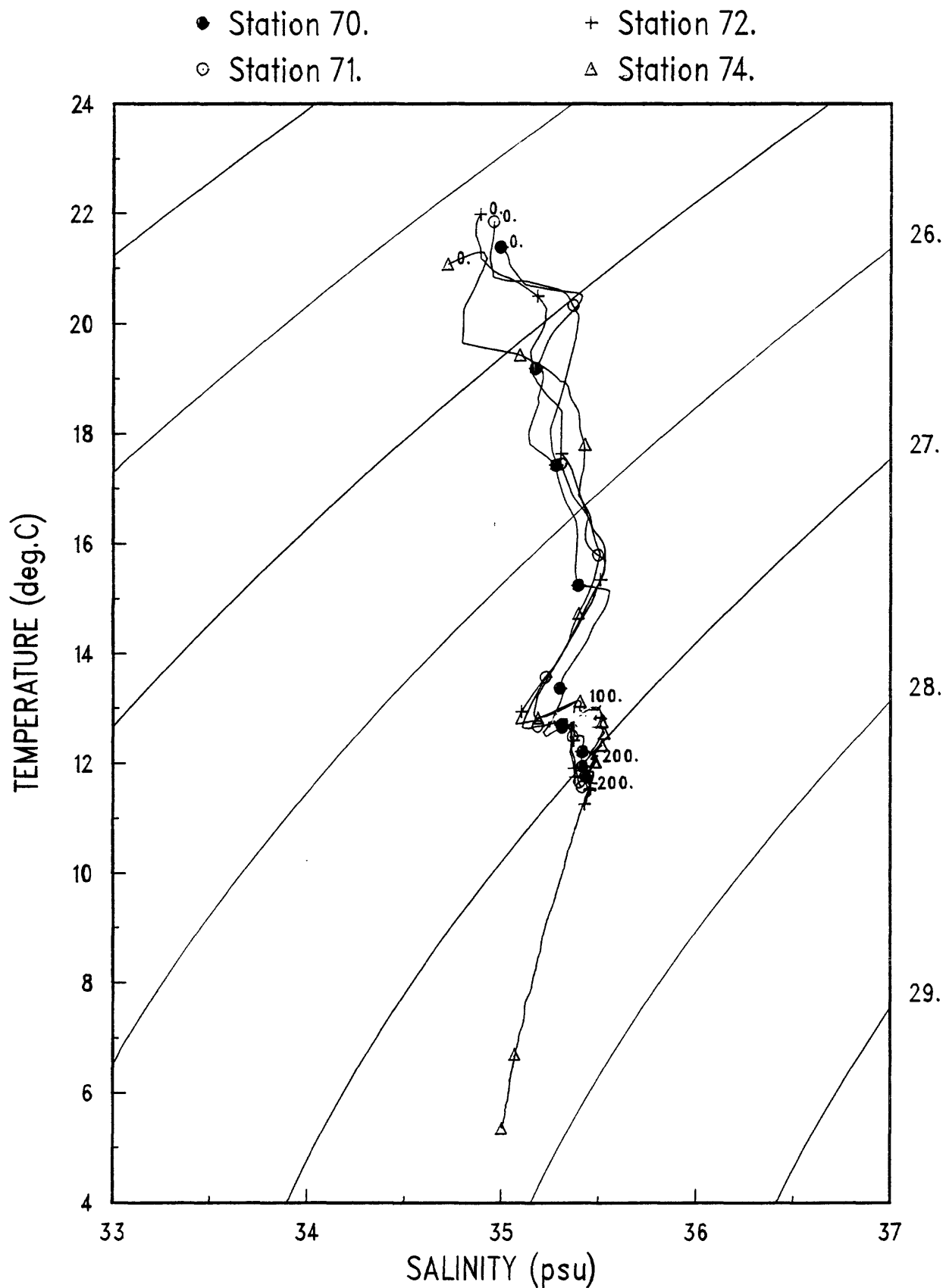
OC122--TS Diagram--Section 8



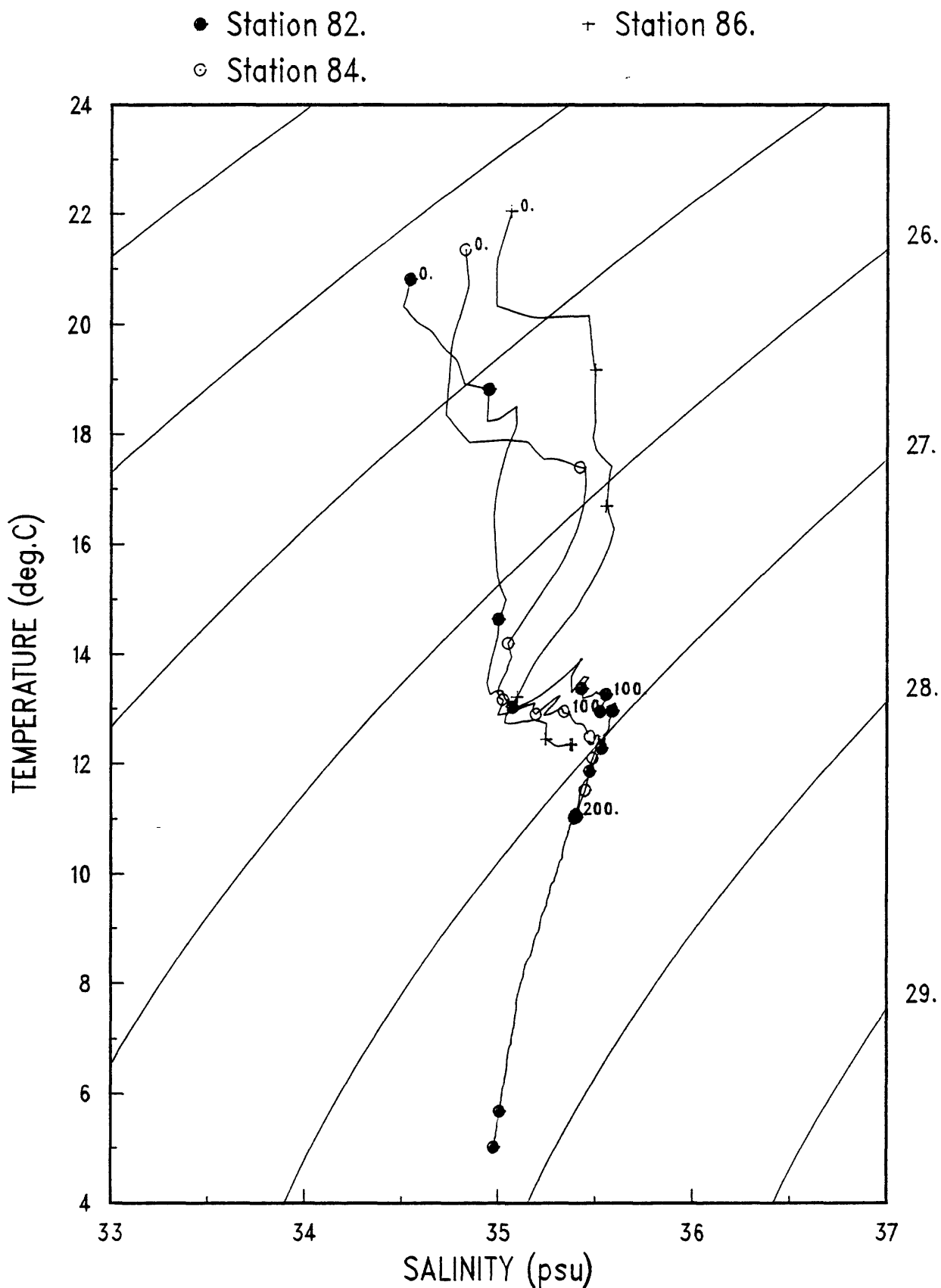
OC122--TS Diagram--Section 9



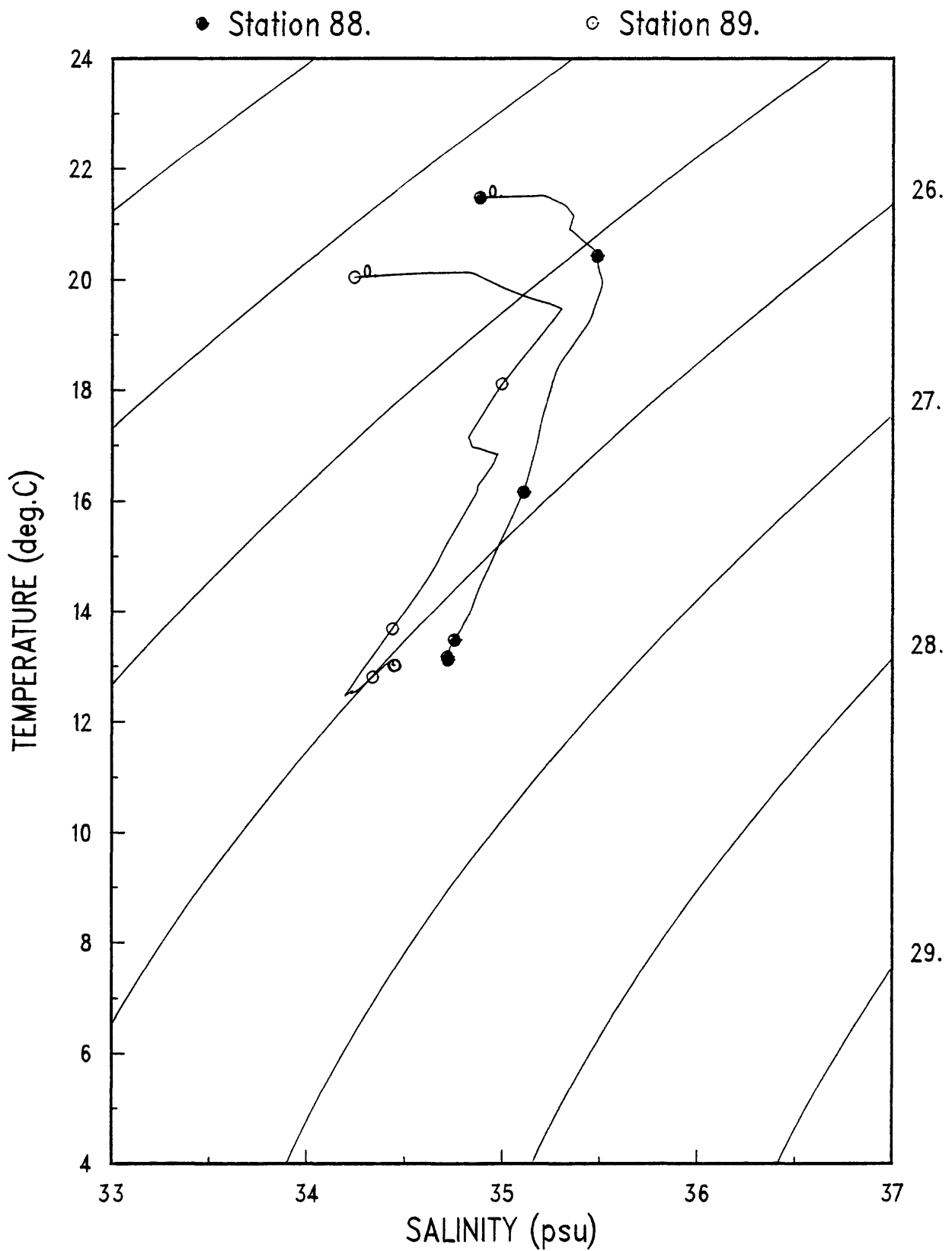
OC122--TS Diagram--Section 9



OC122--TS Diagram--Section 10

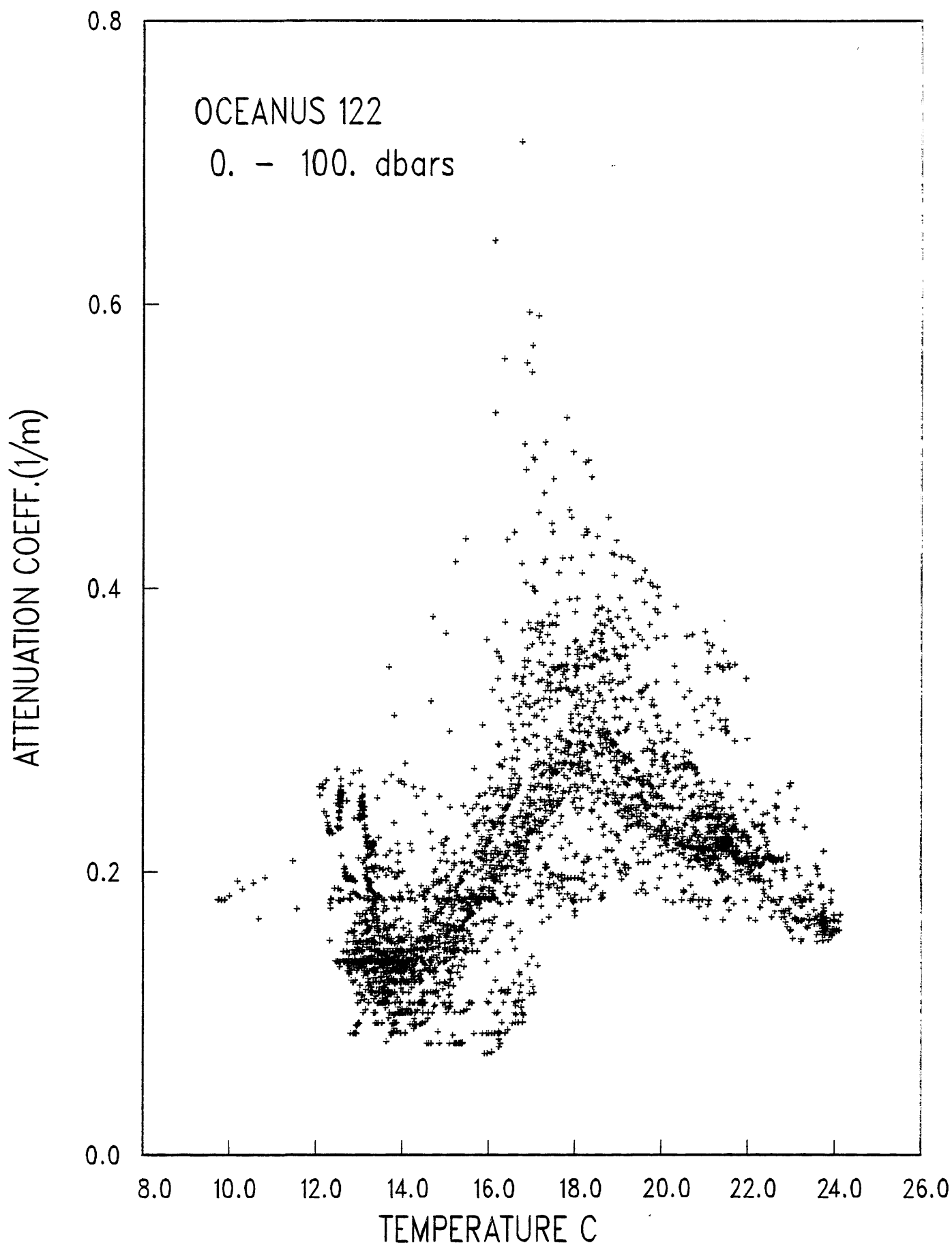


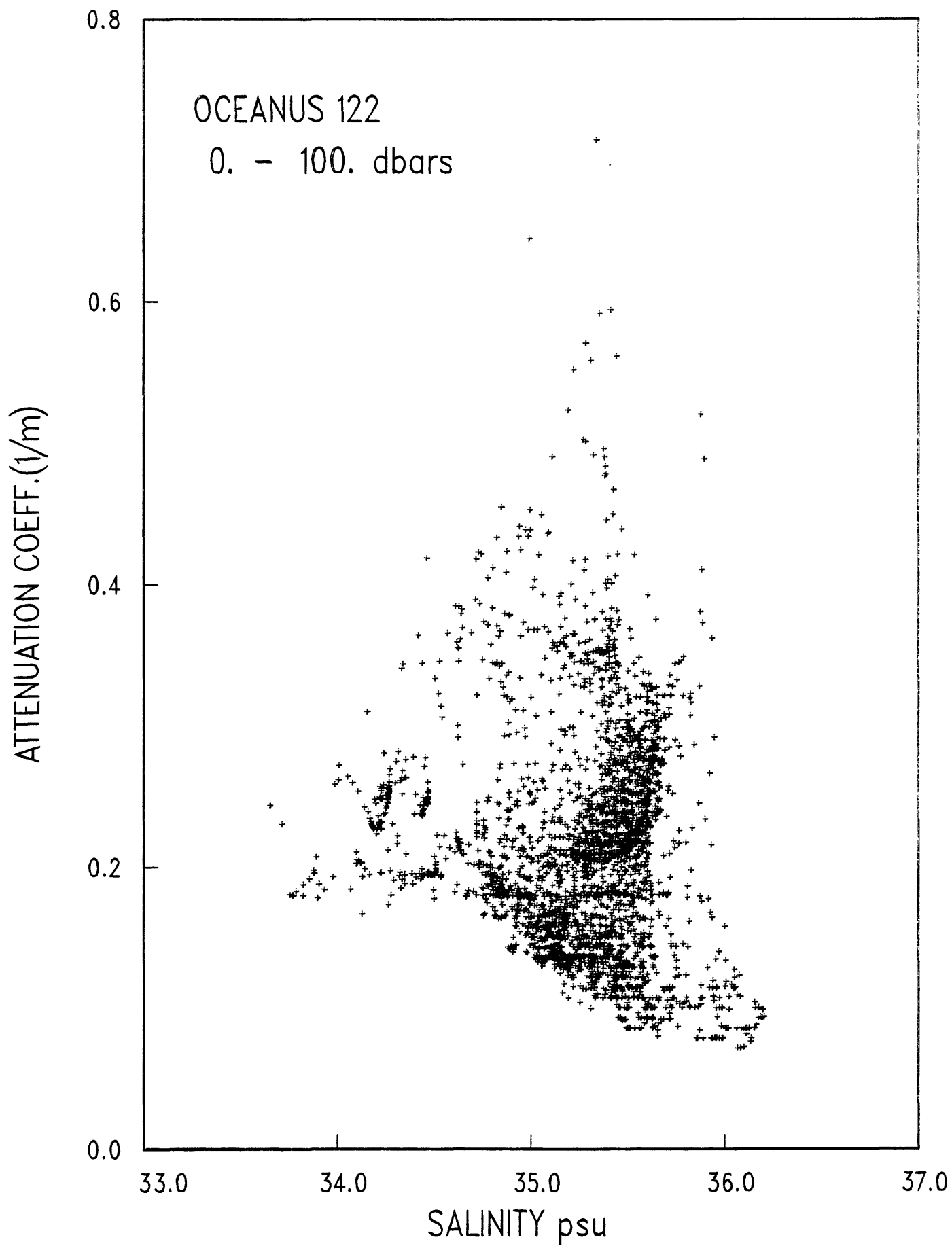
OC122--TS Diagram--Section 10

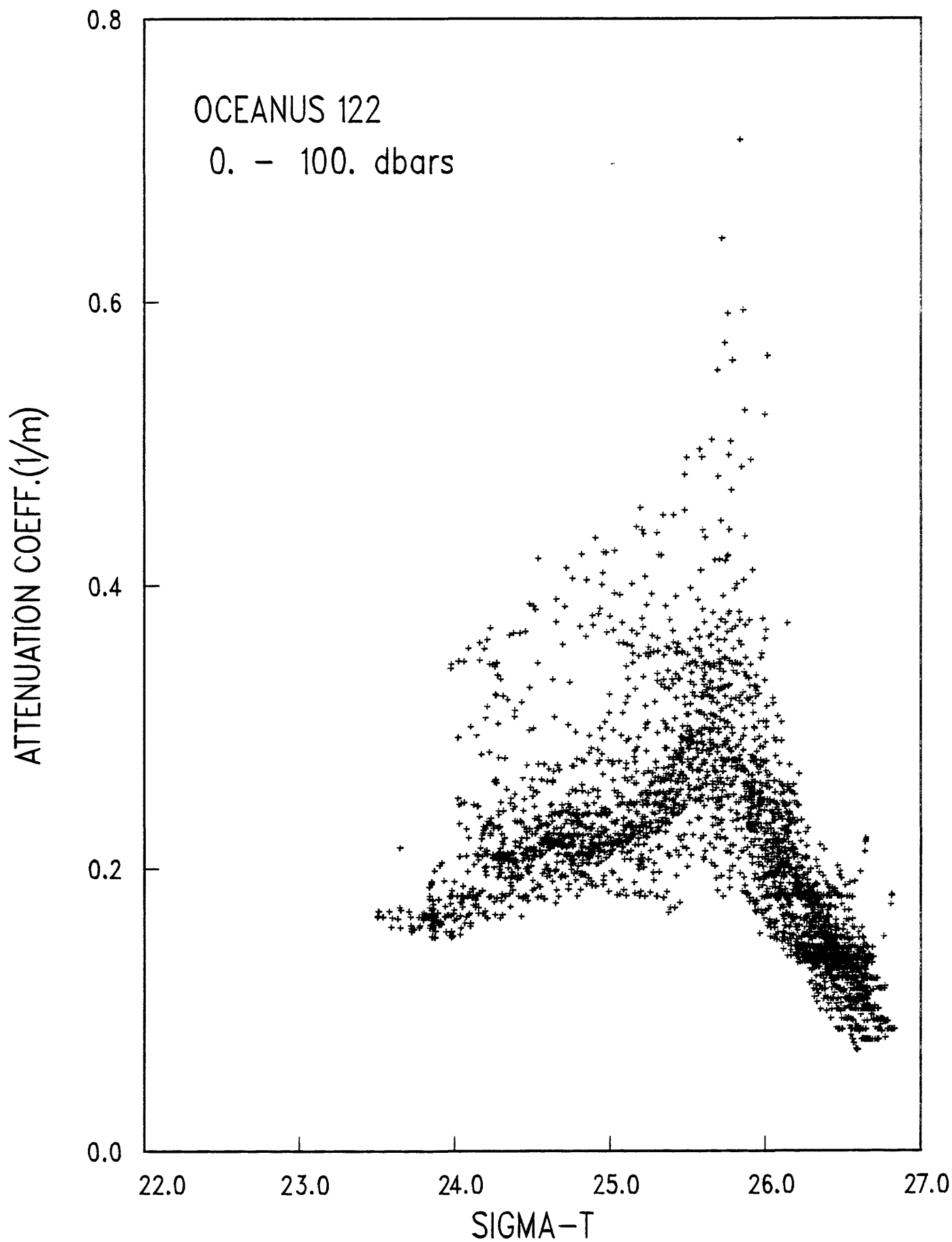


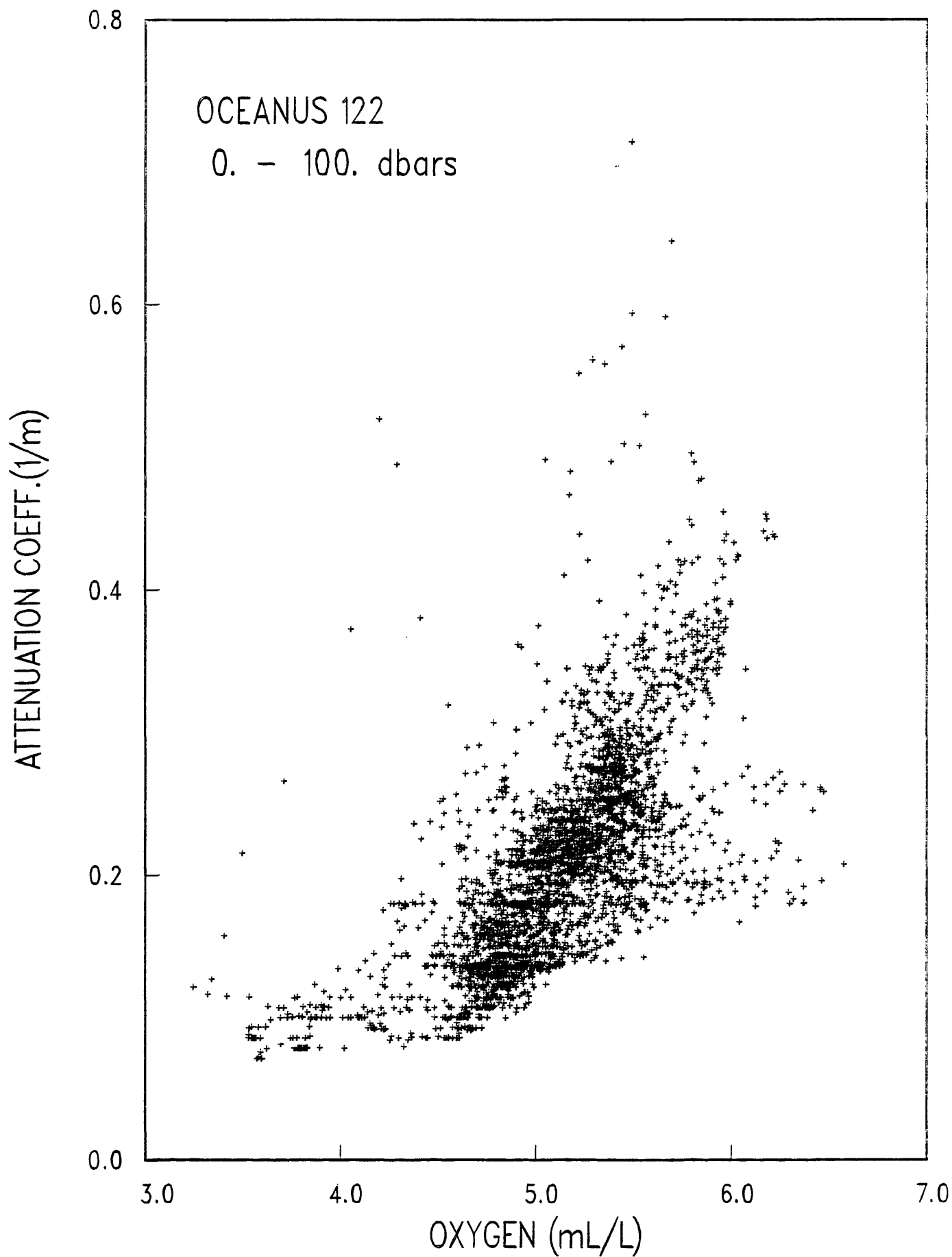
Scatter plots

Plots of attenuation coefficient versus temperature, salinity, sigma-t and oxygen using data between 0 and 100 dbar from all CTD stations.





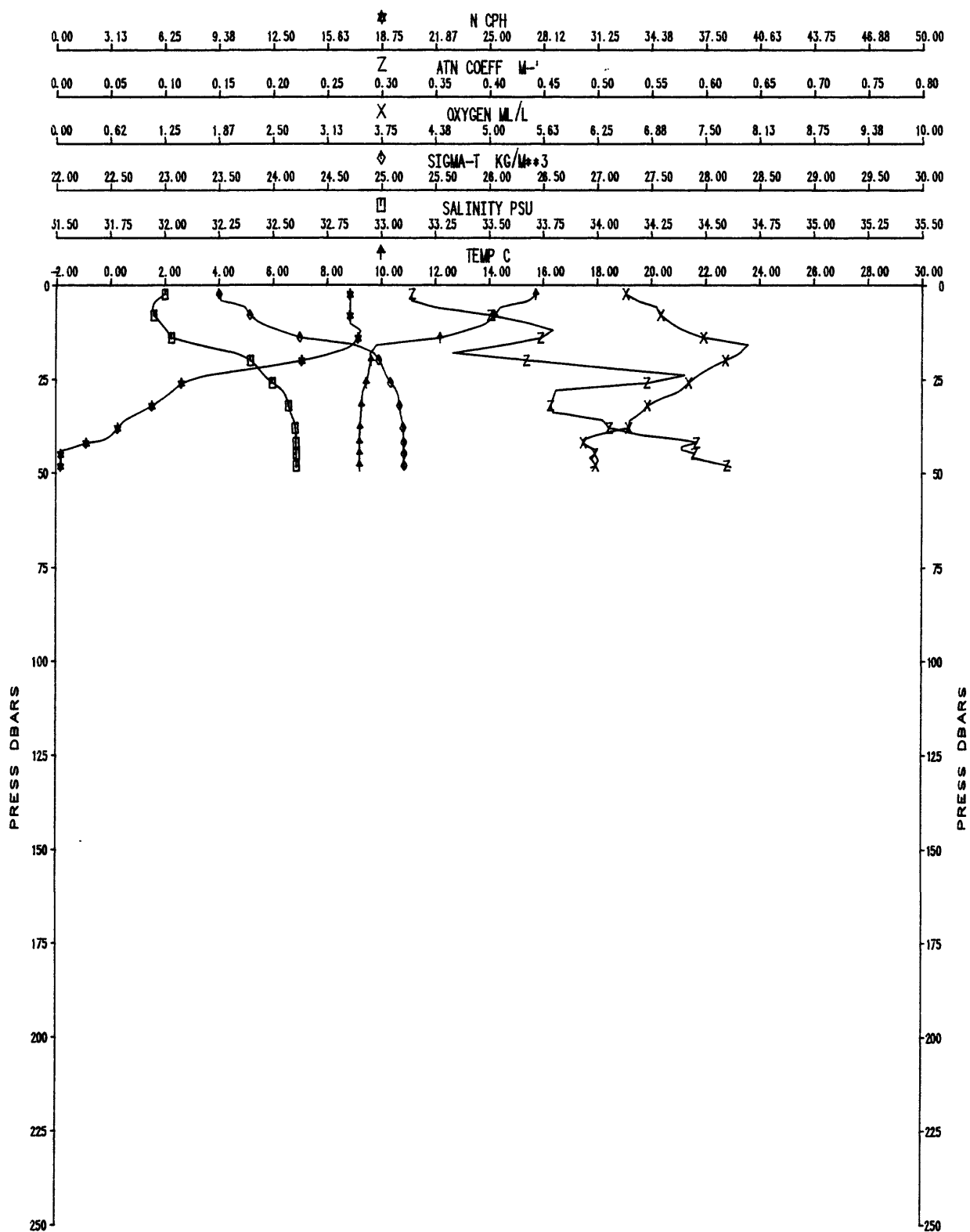




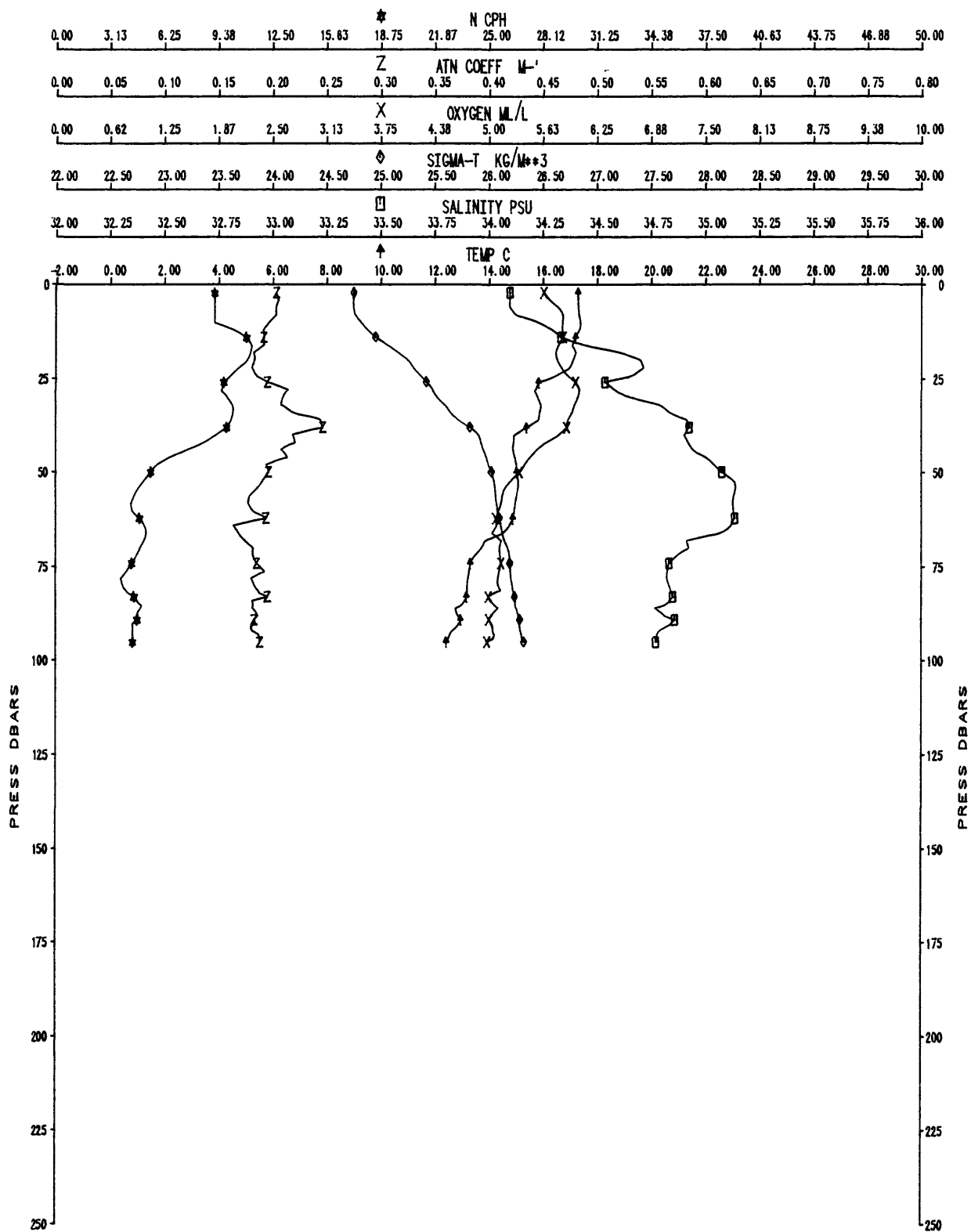
Station profiles

Vertical profiles of temperature, salinity, sigma-t, oxygen, attenuation coefficient, and Brunt-Vaisala frequency at each station figures 70-157. 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. XBT profiles are limited to 500 m. The units of salinity are practical salinity units (psu) and are defined by Lewis (1980). Station 20 was an upcast for station 19 so it is not included.

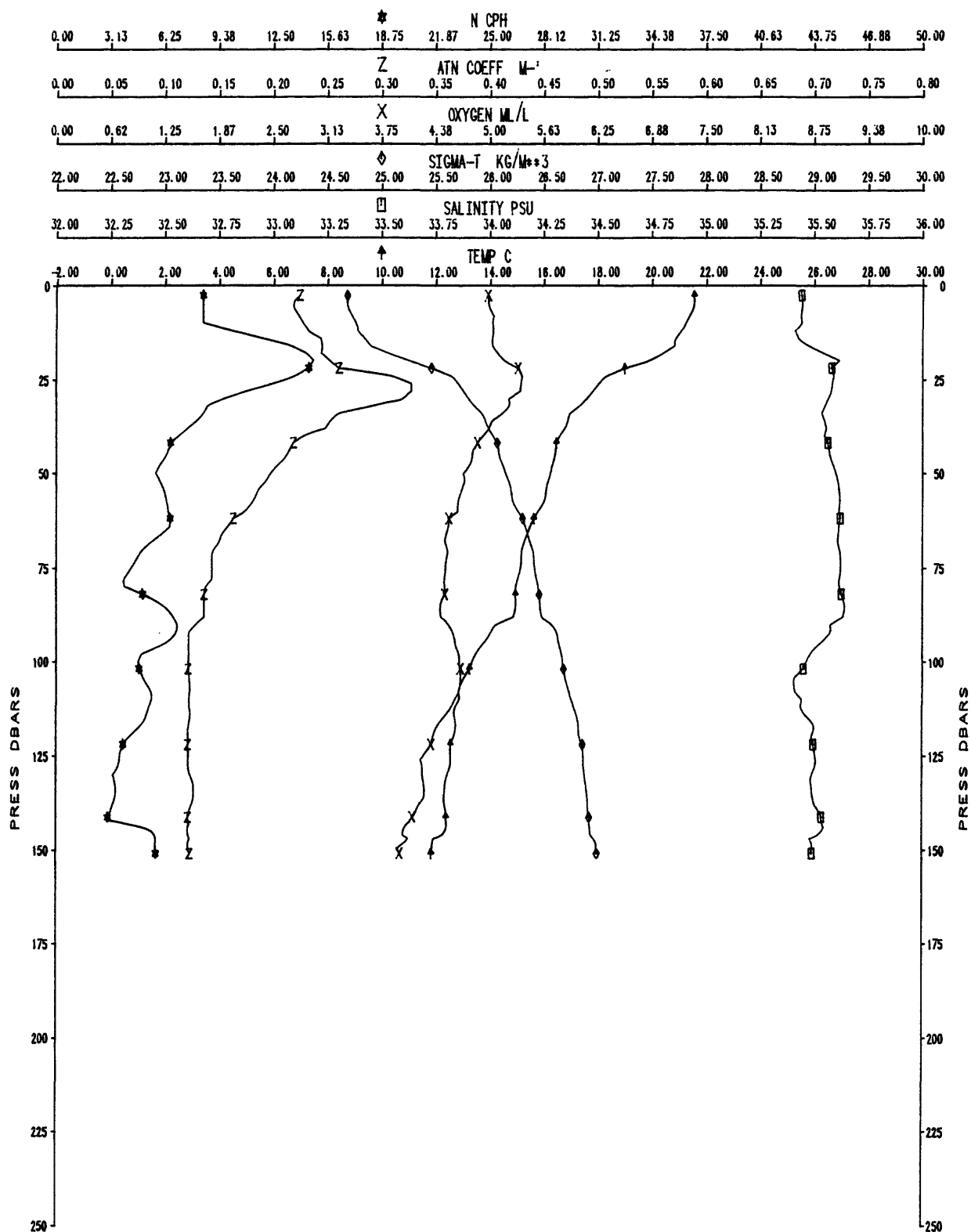
0C122A CAST #1



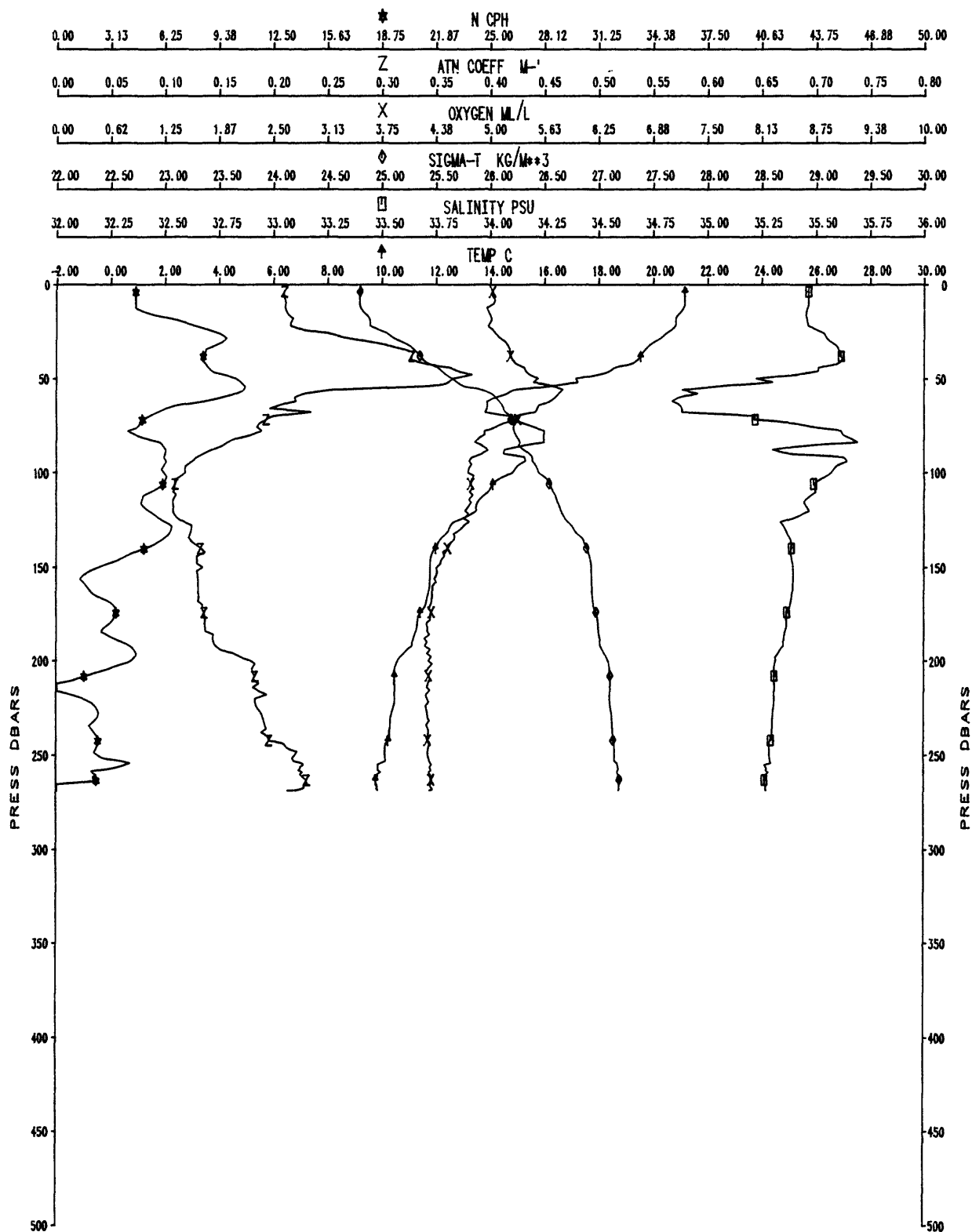
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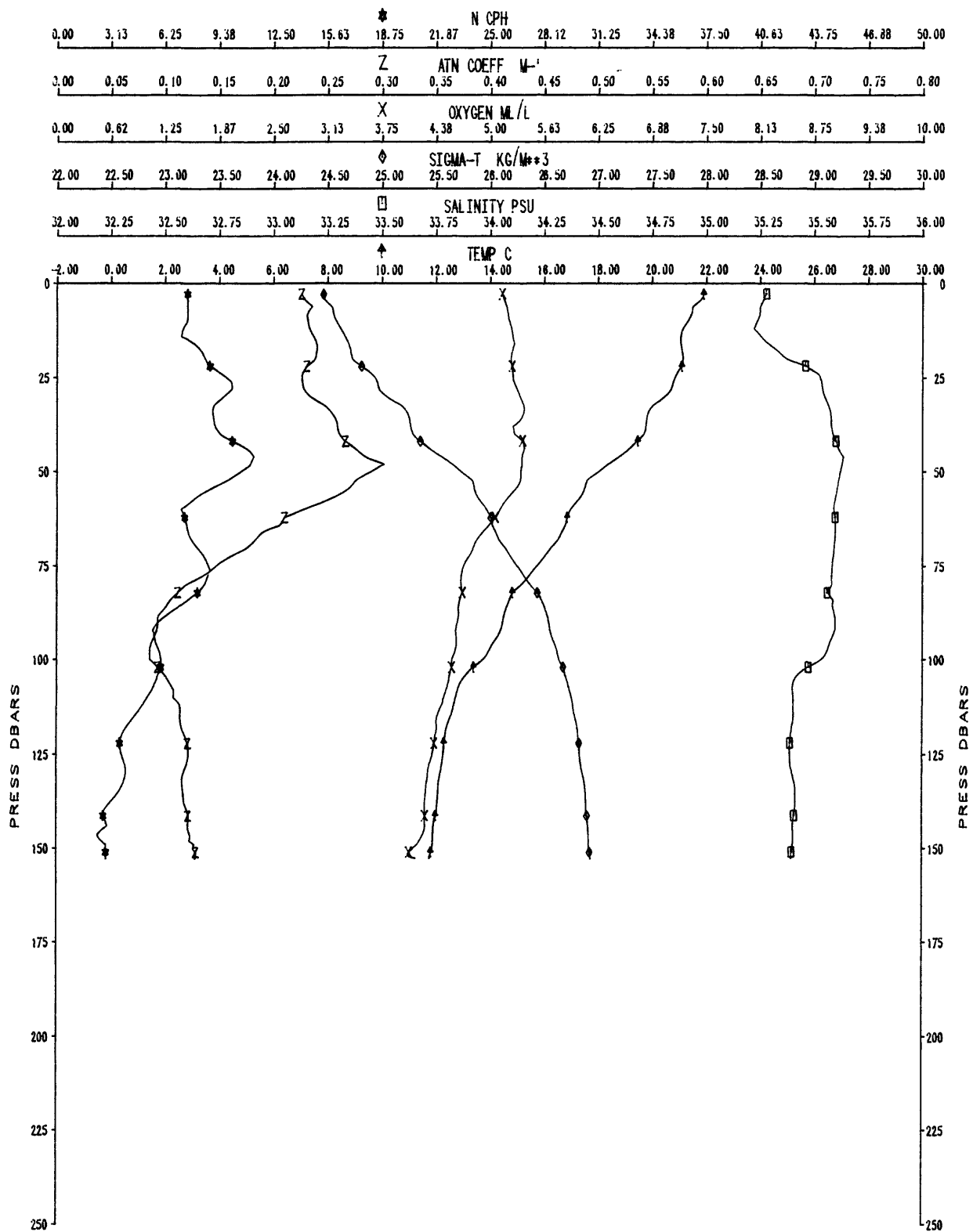
OC122A CAST #3



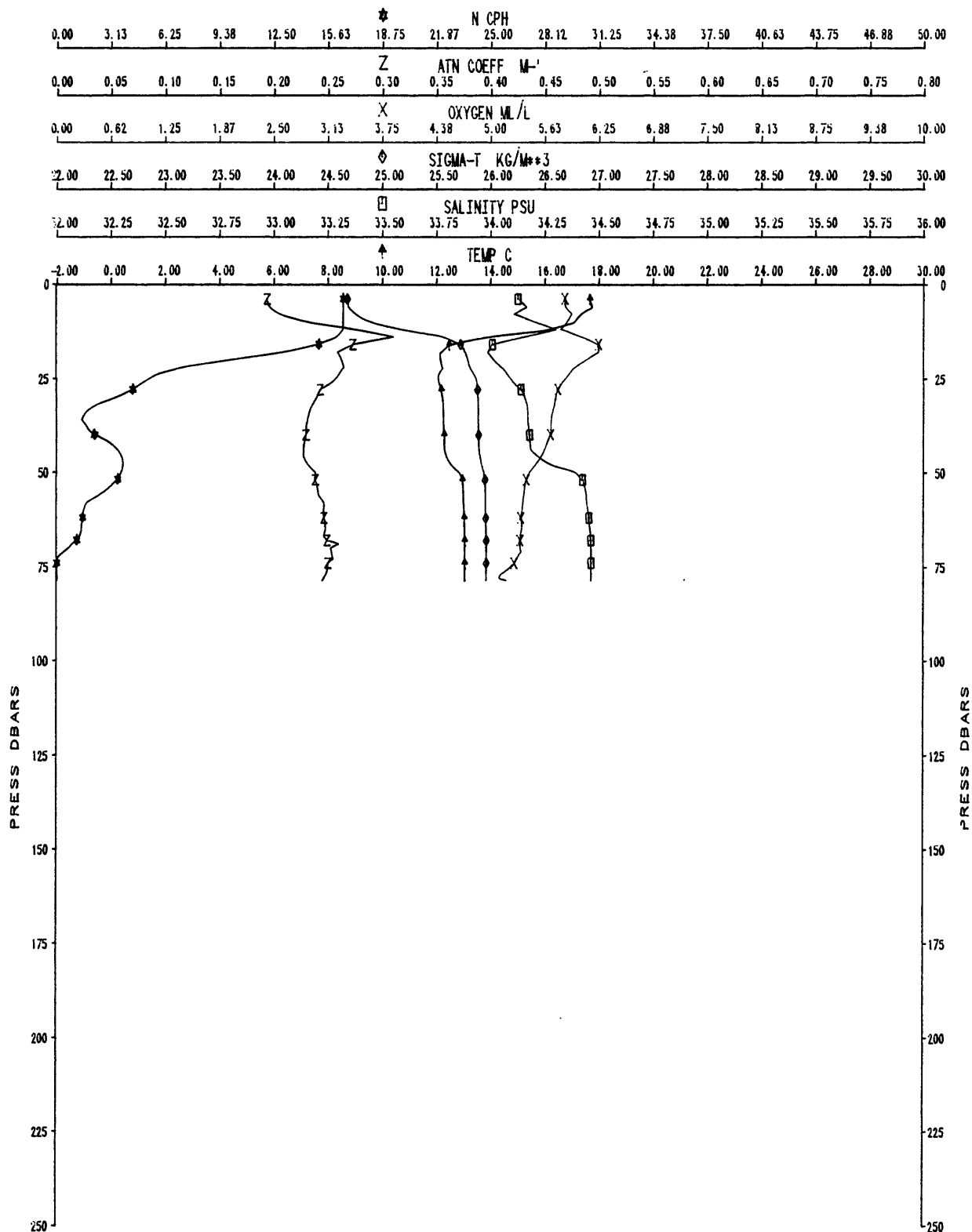
OC122A CAST #4



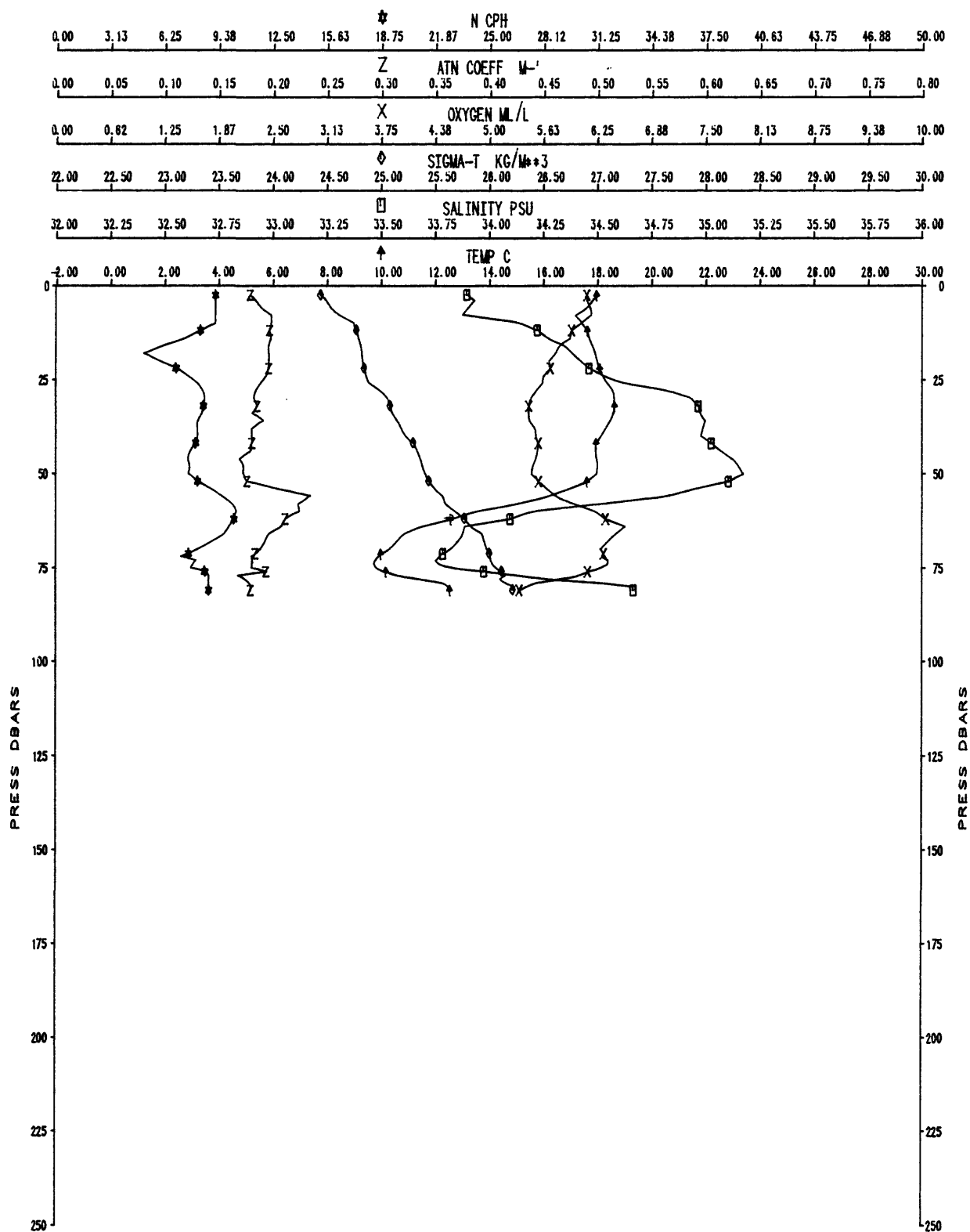
0C122U CAST #5



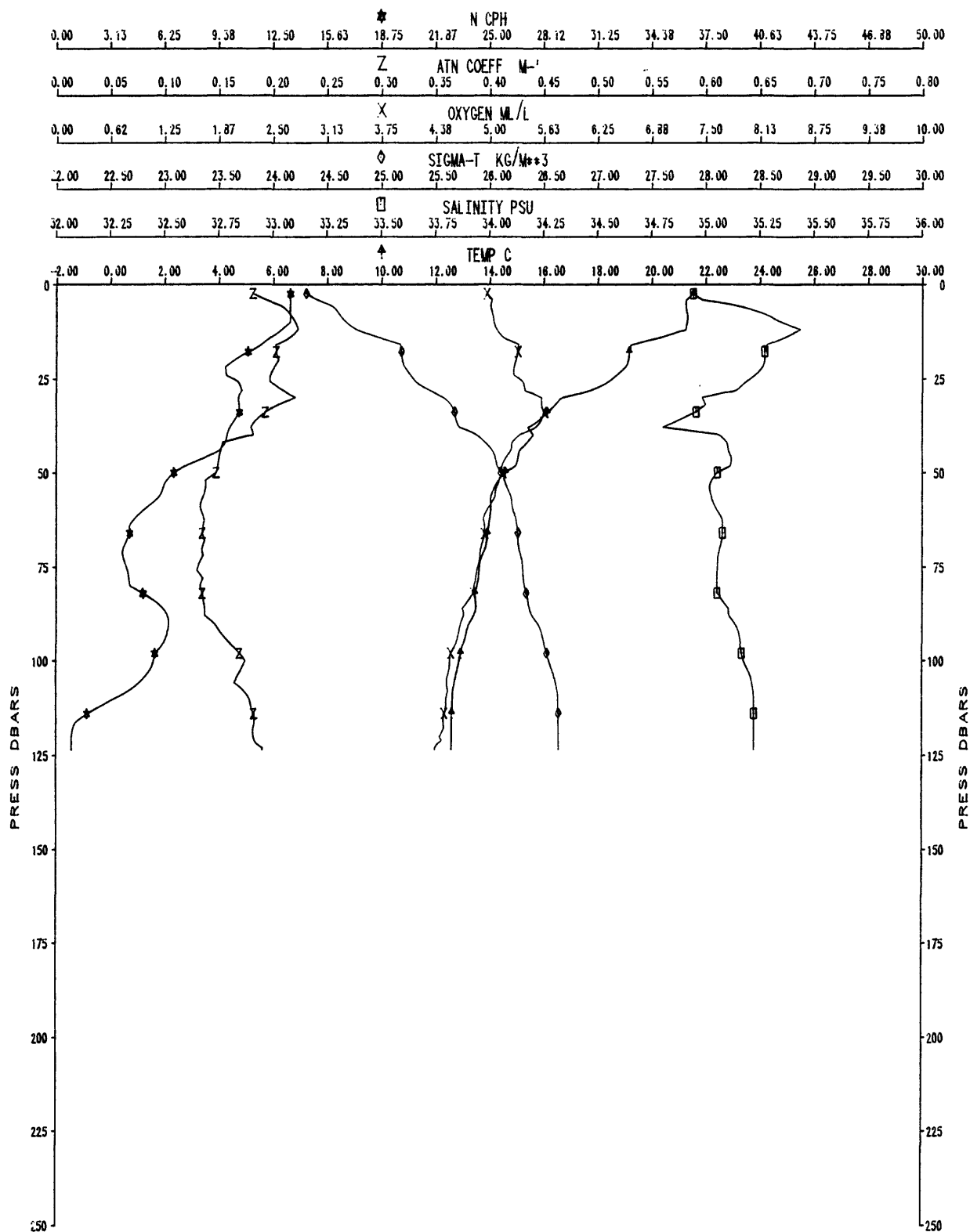
OC122B CAST #6



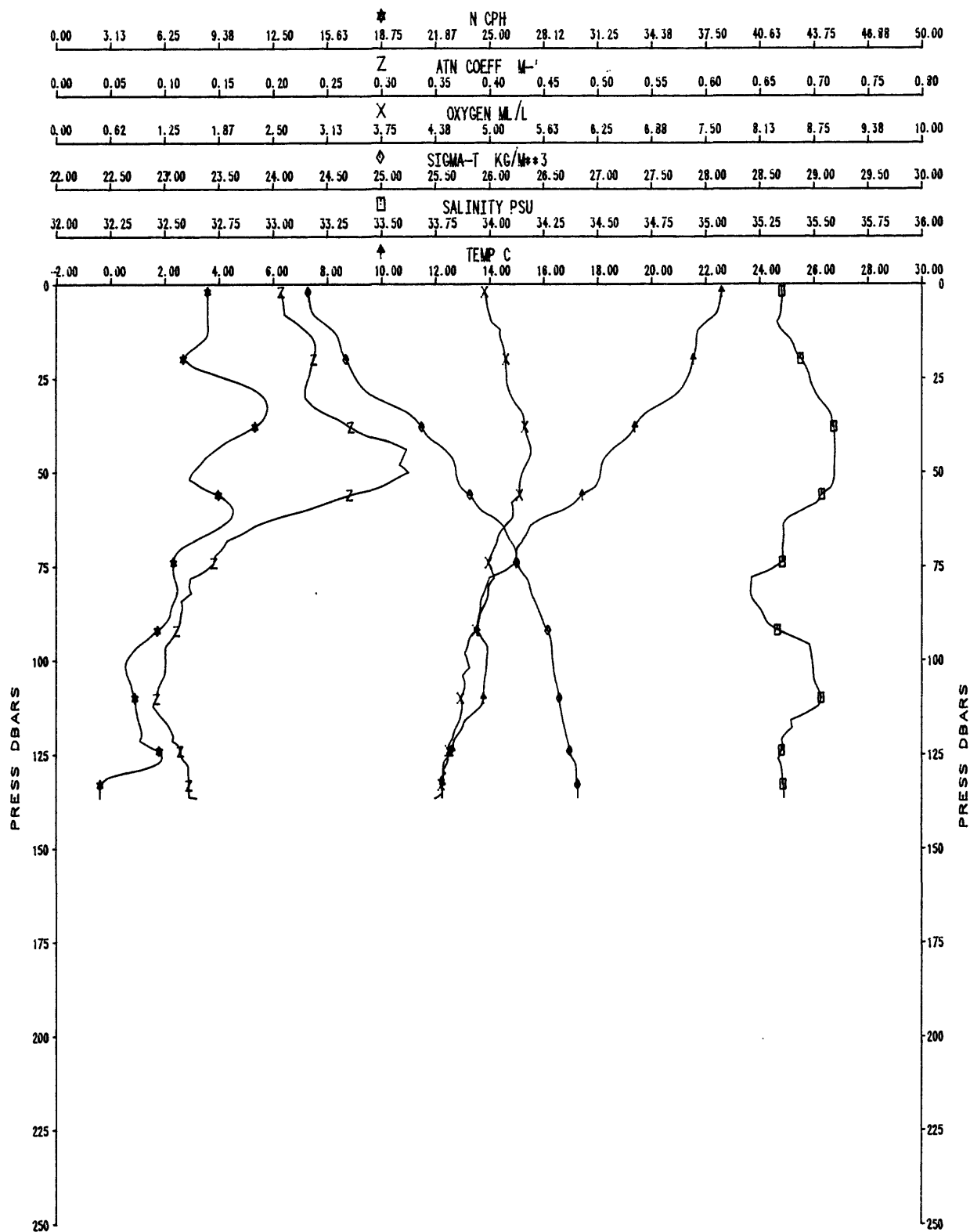
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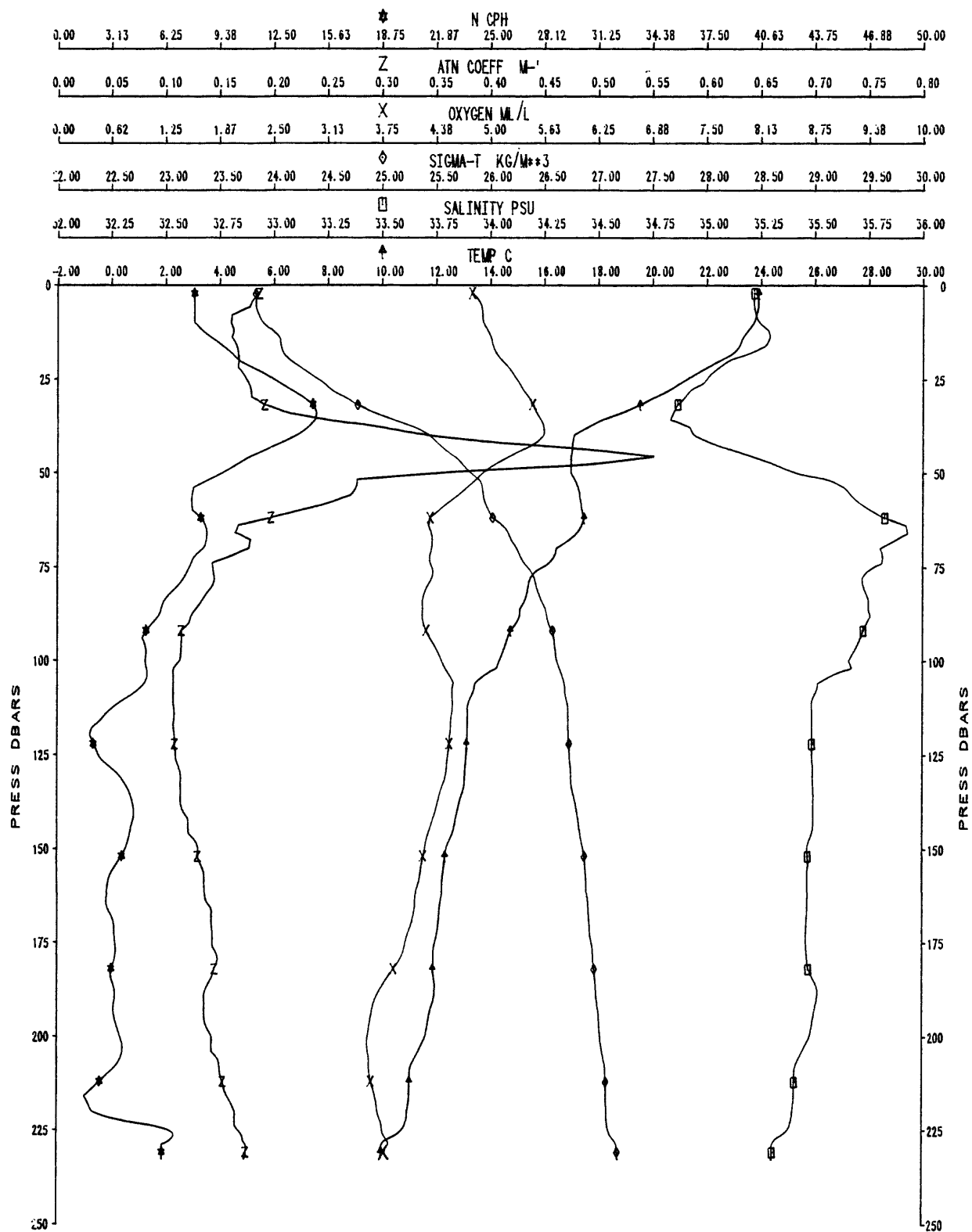
OC122B CAST #8



OC122A CAST #9

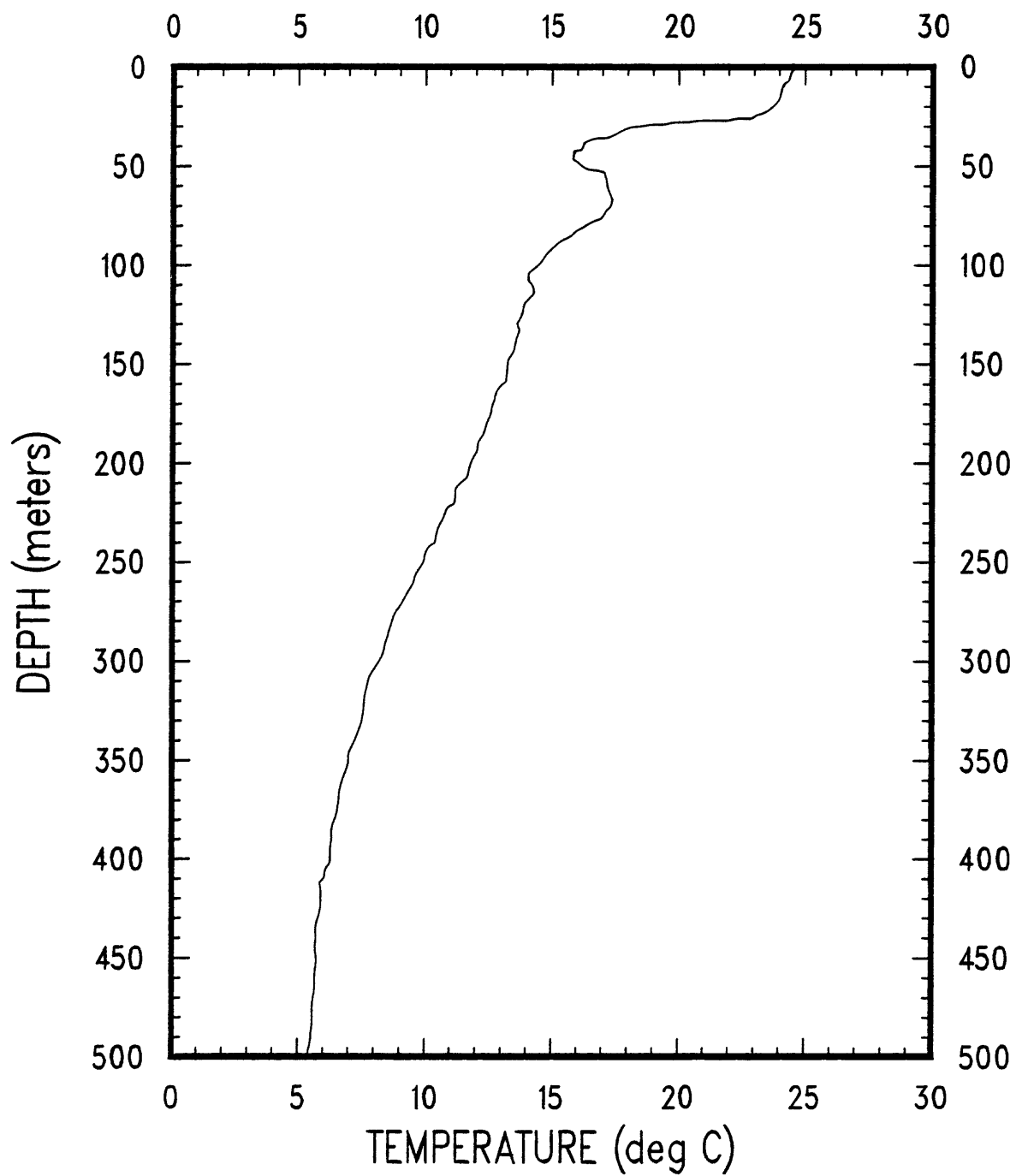


OC122B CAST #10

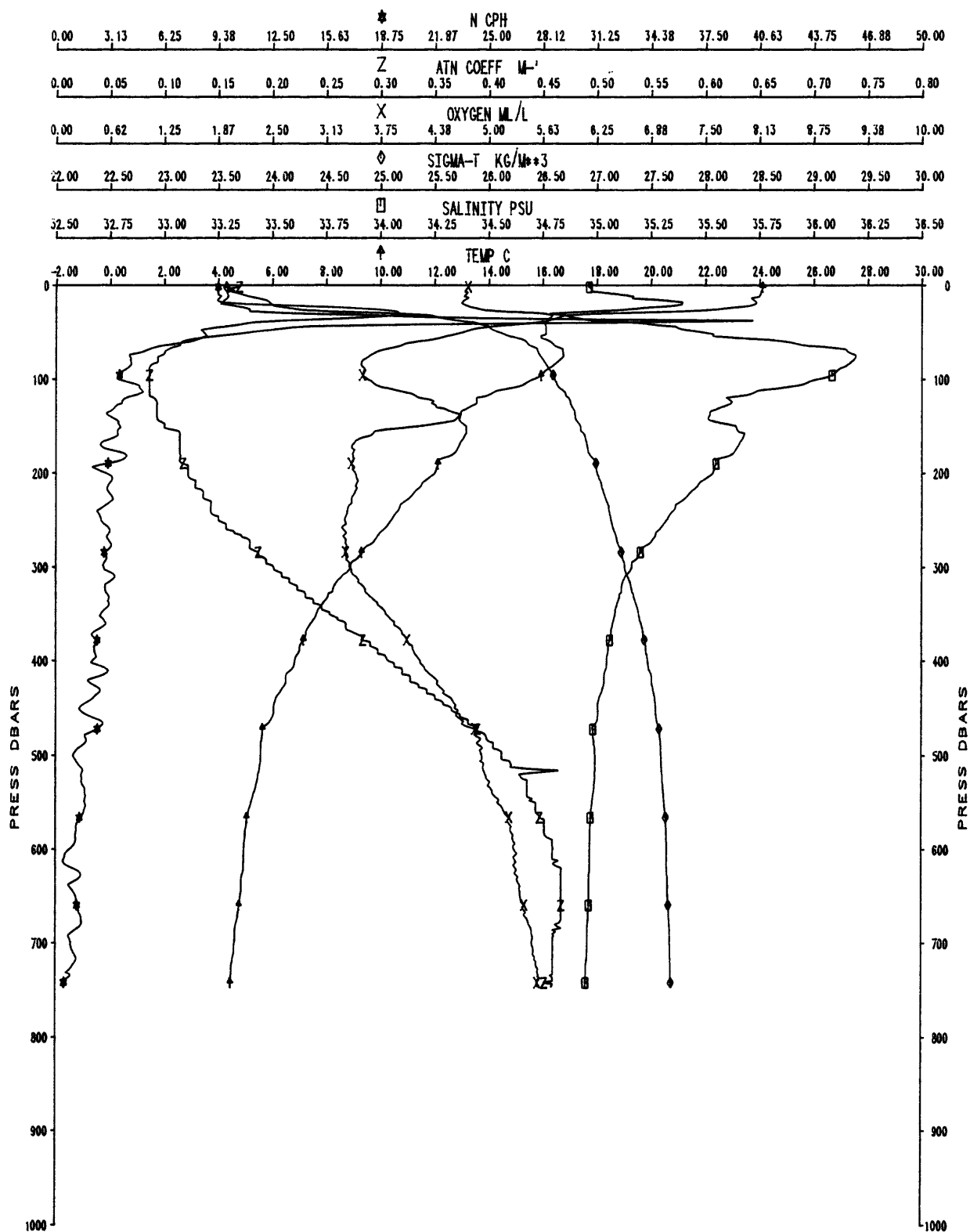


OC122

XBT-11

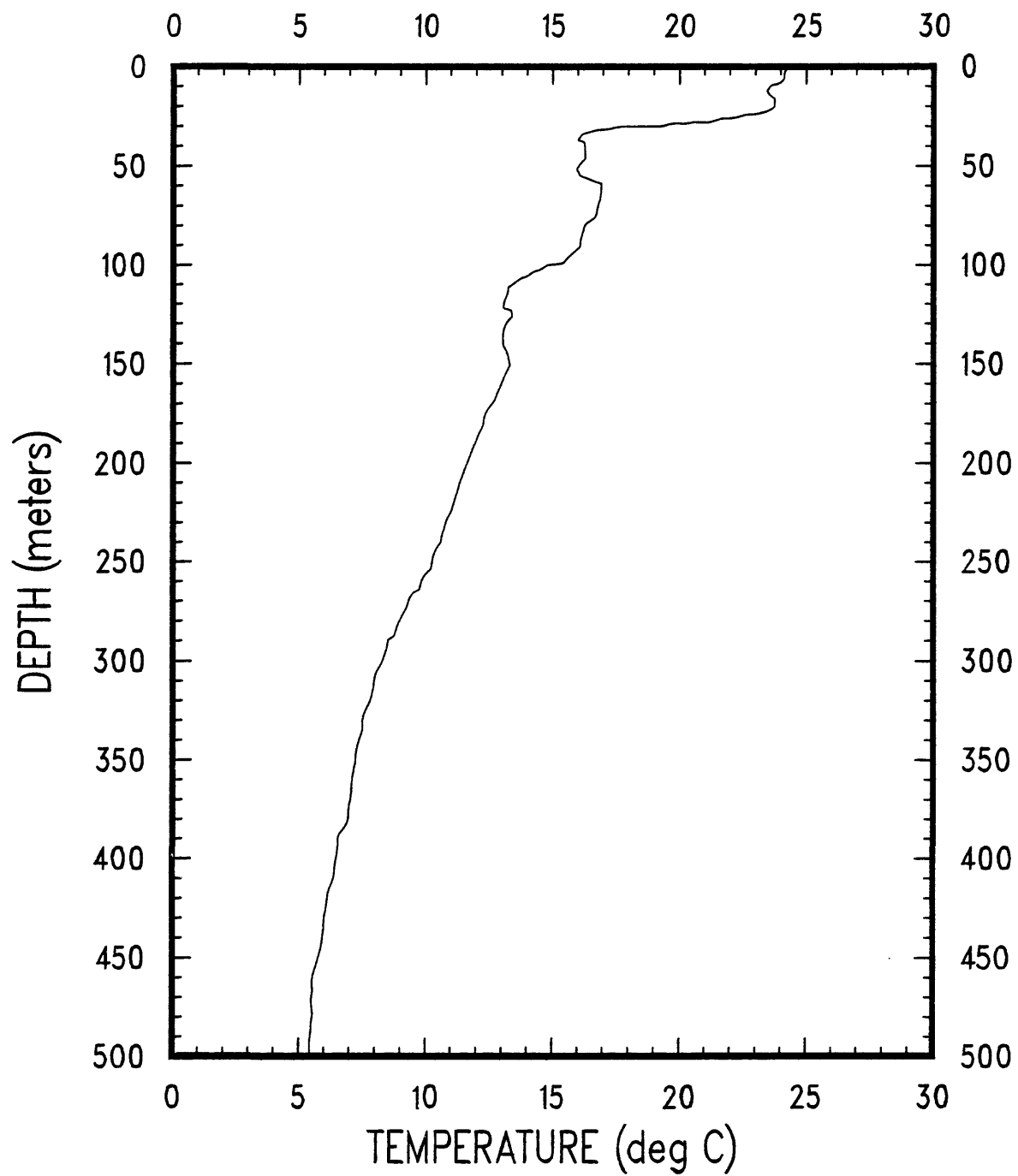


OC122A CAST #12

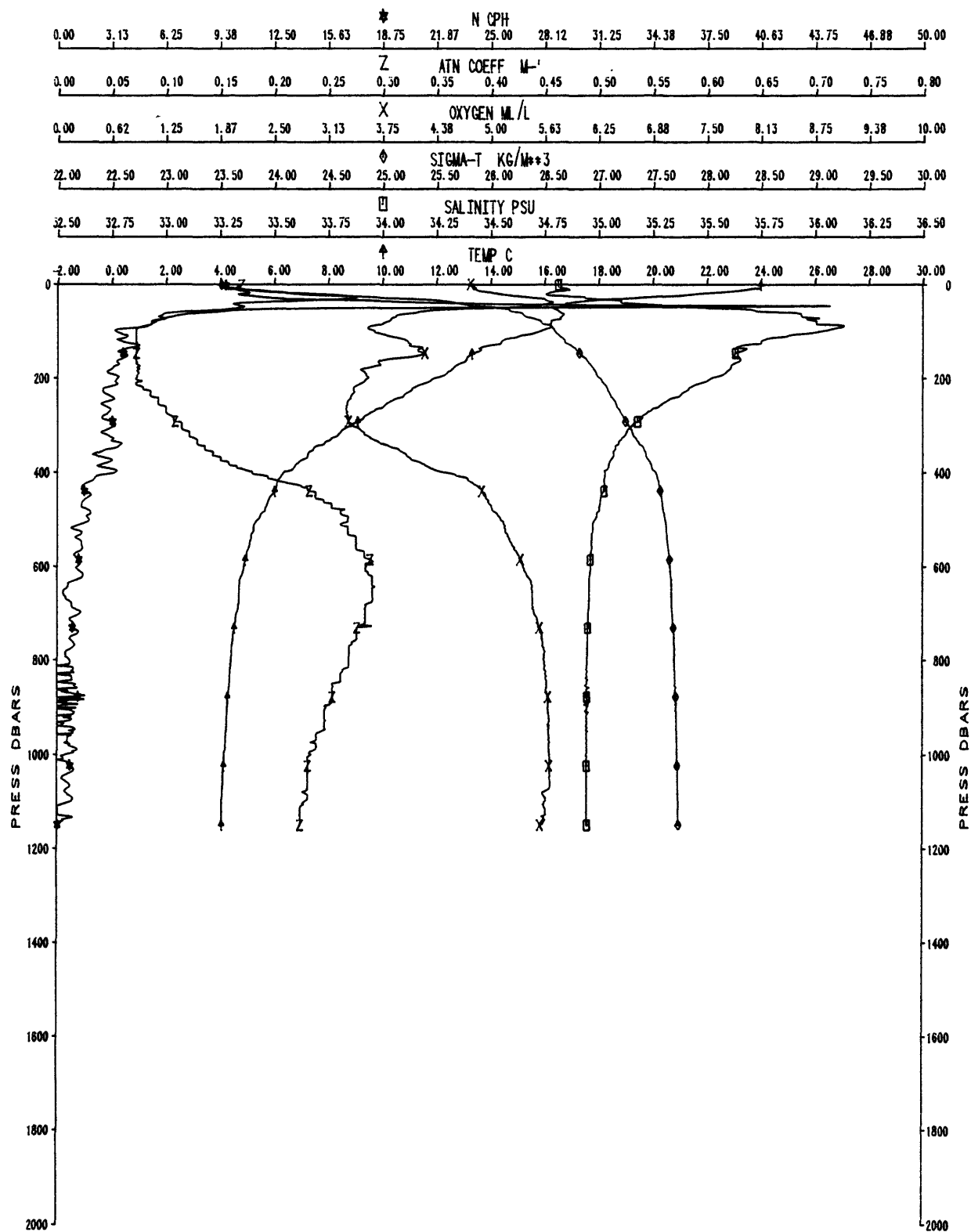


0C122

XBT-13

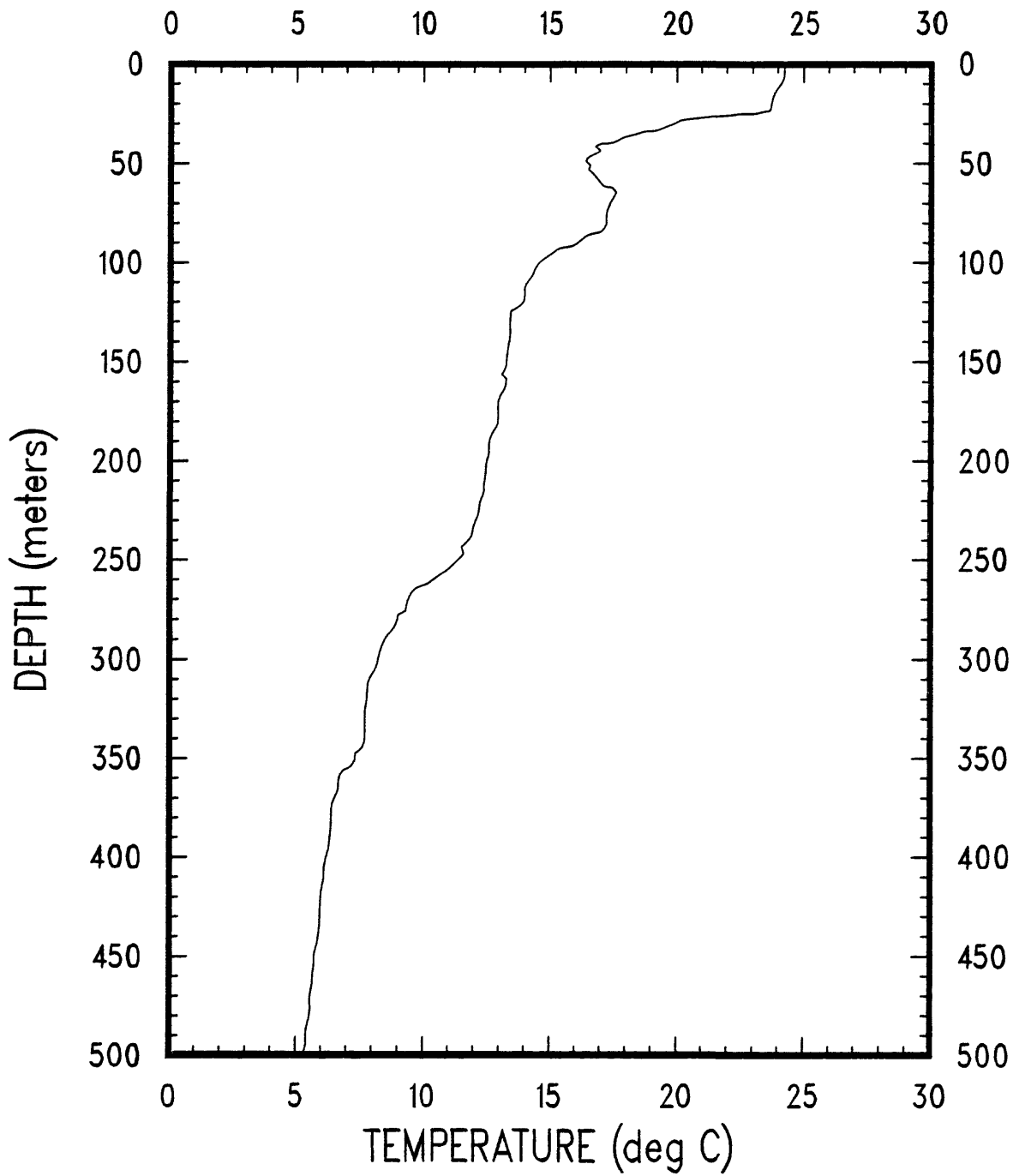


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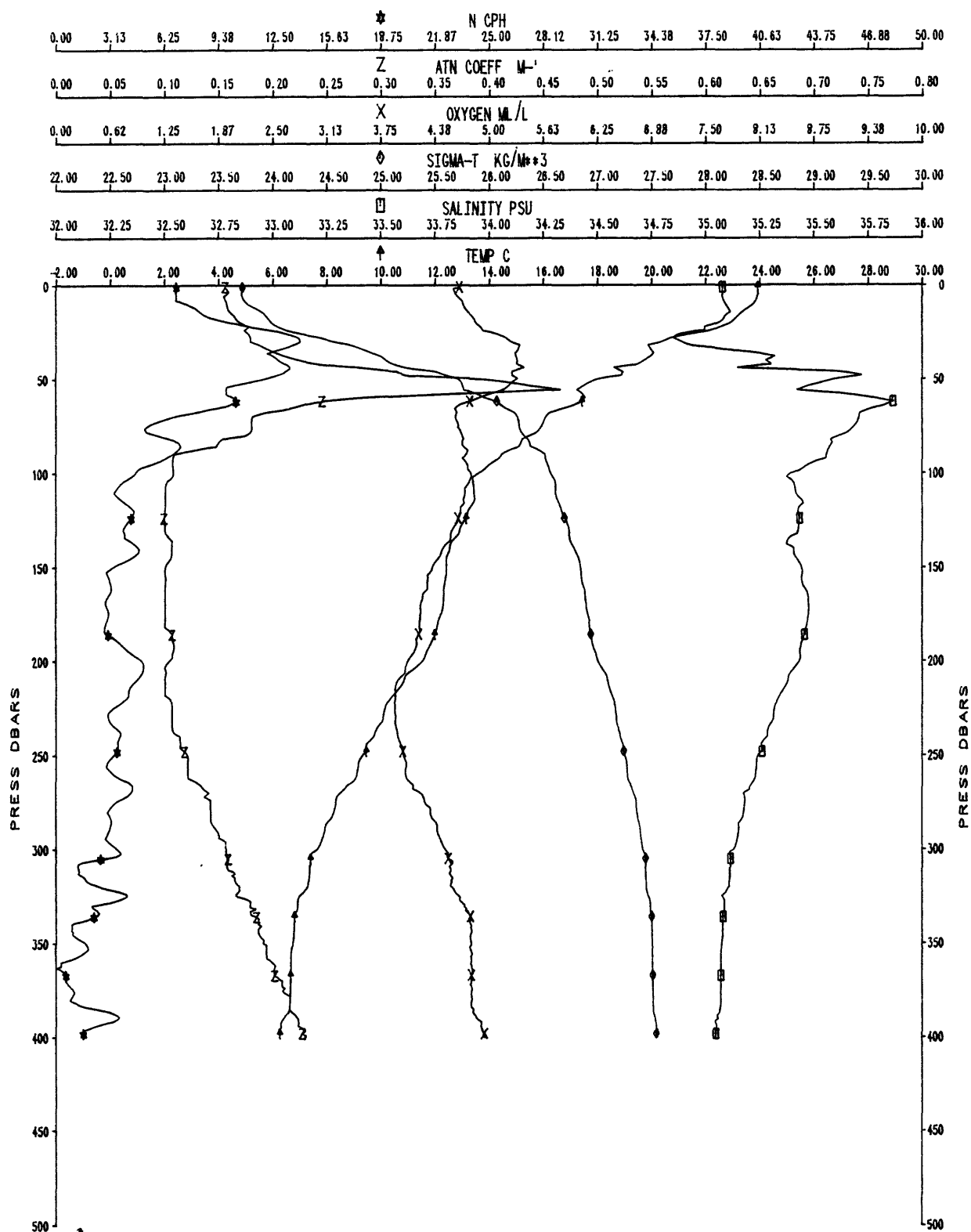


0C122

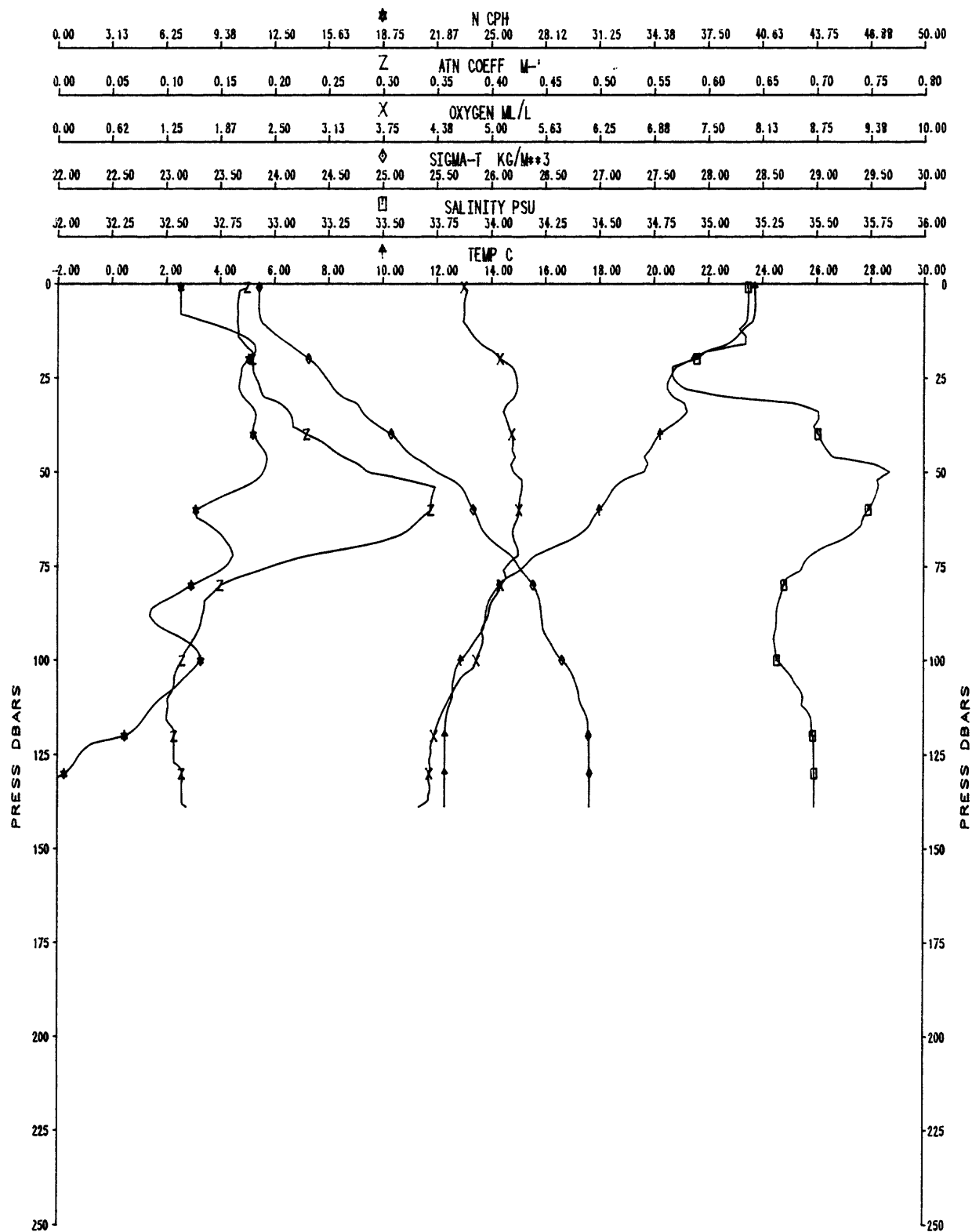
XBT-15



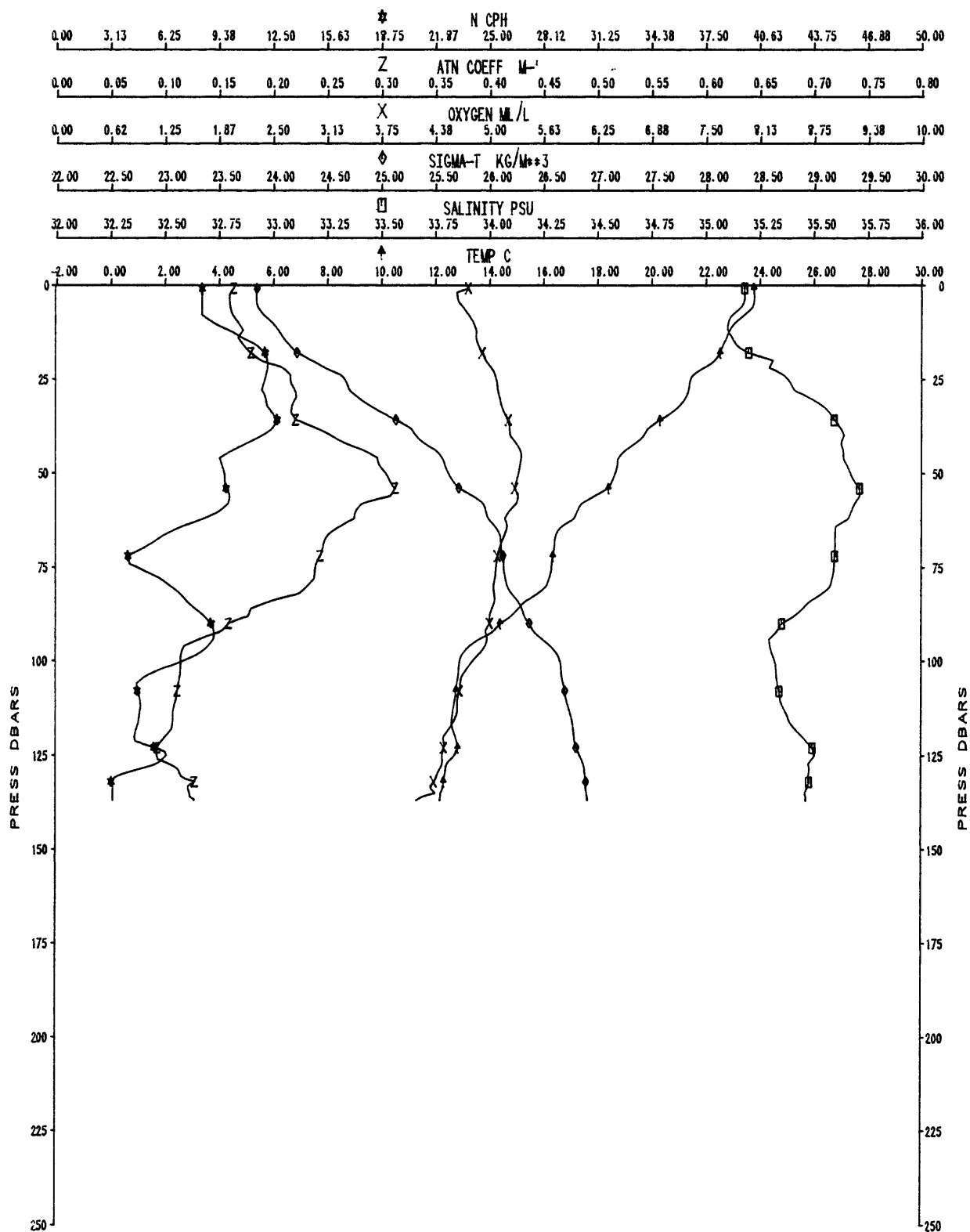
OC122A CAST #16



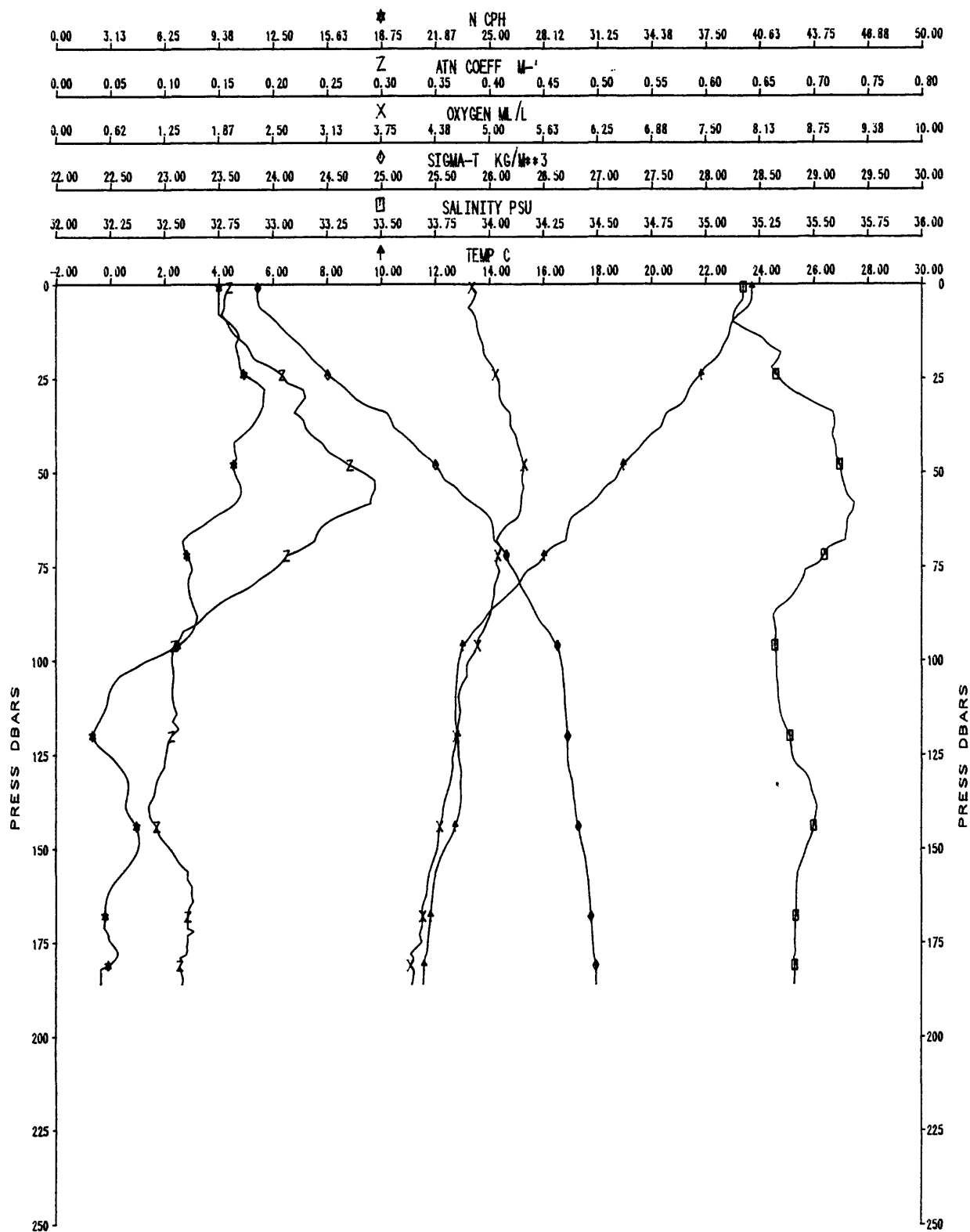
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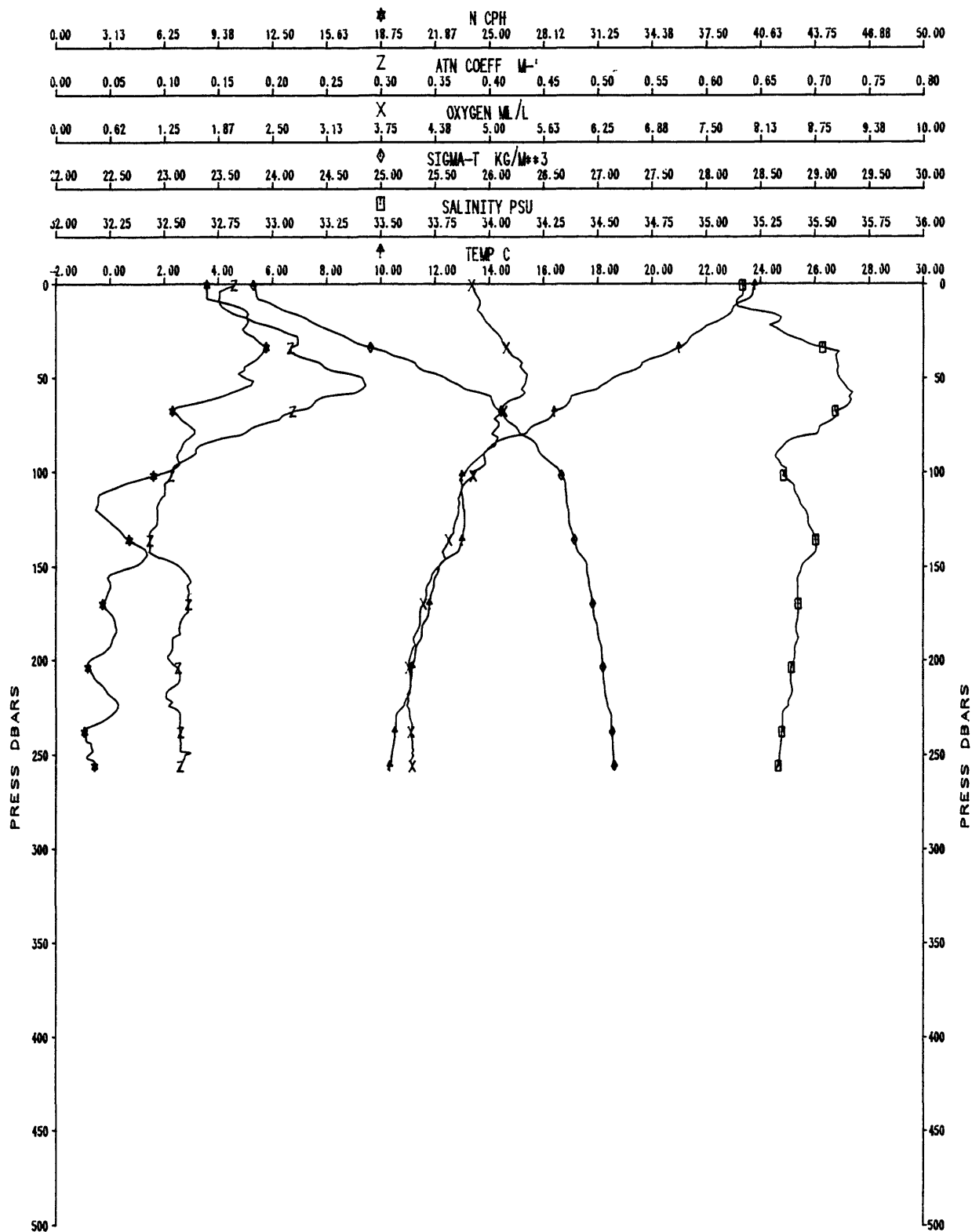
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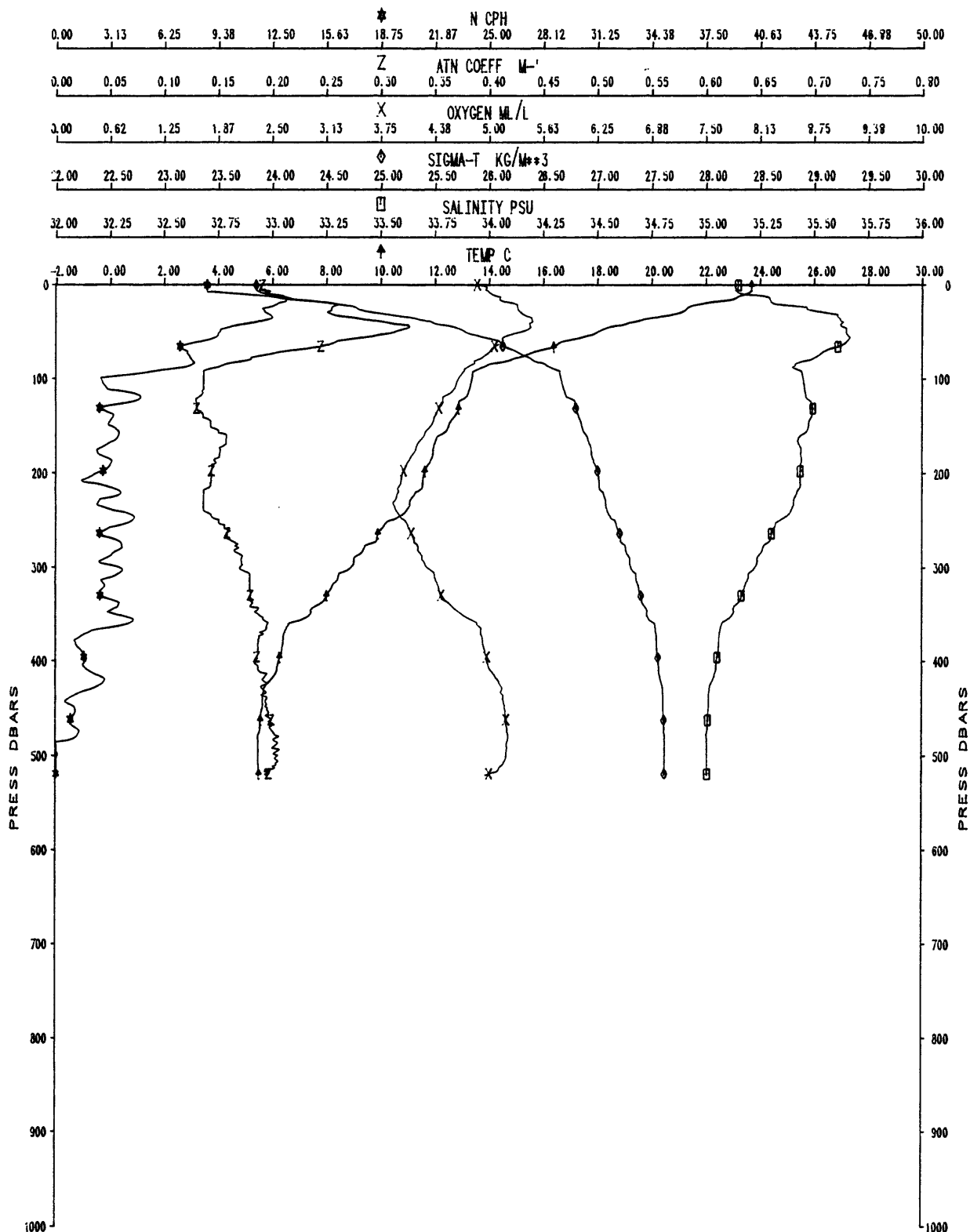
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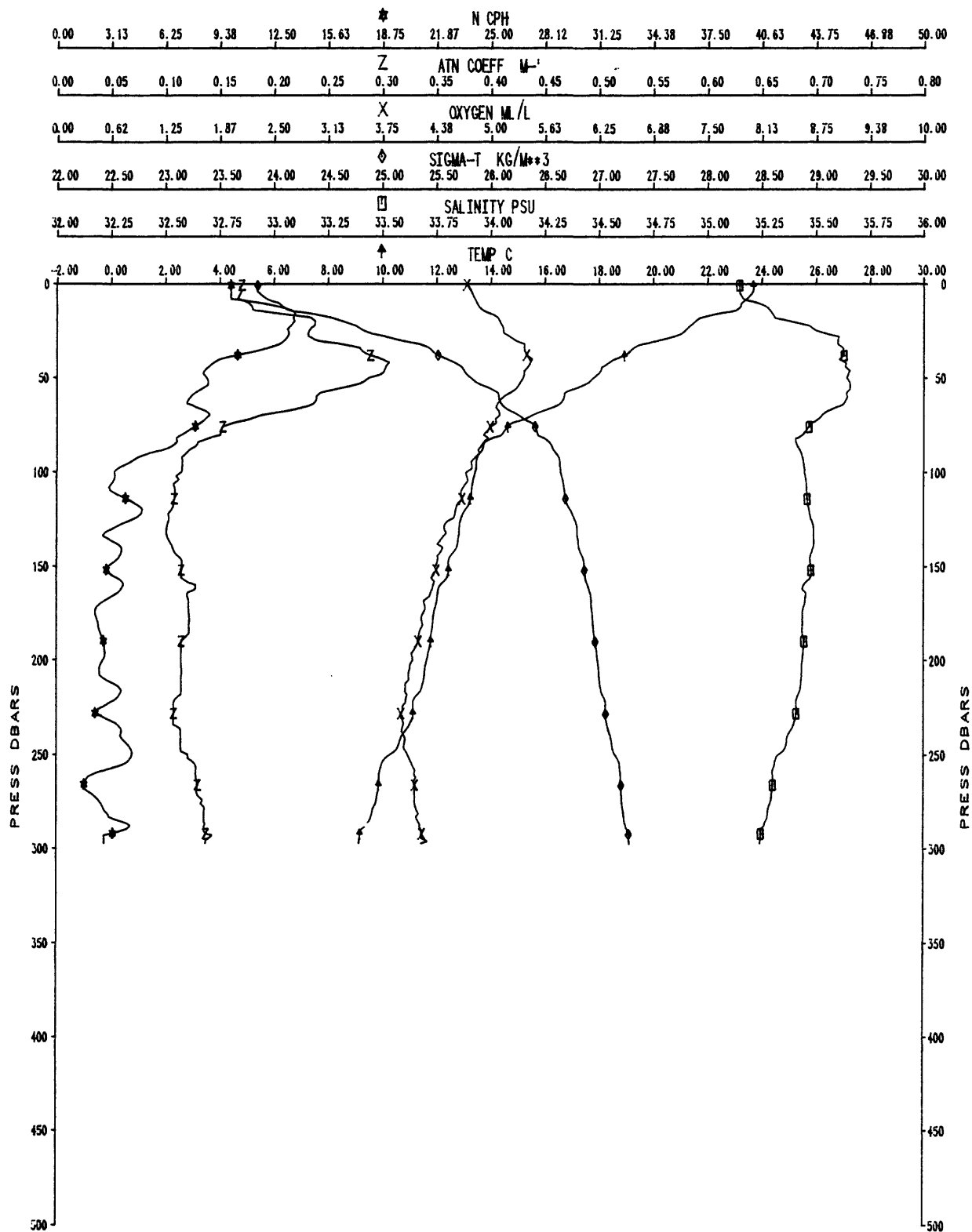
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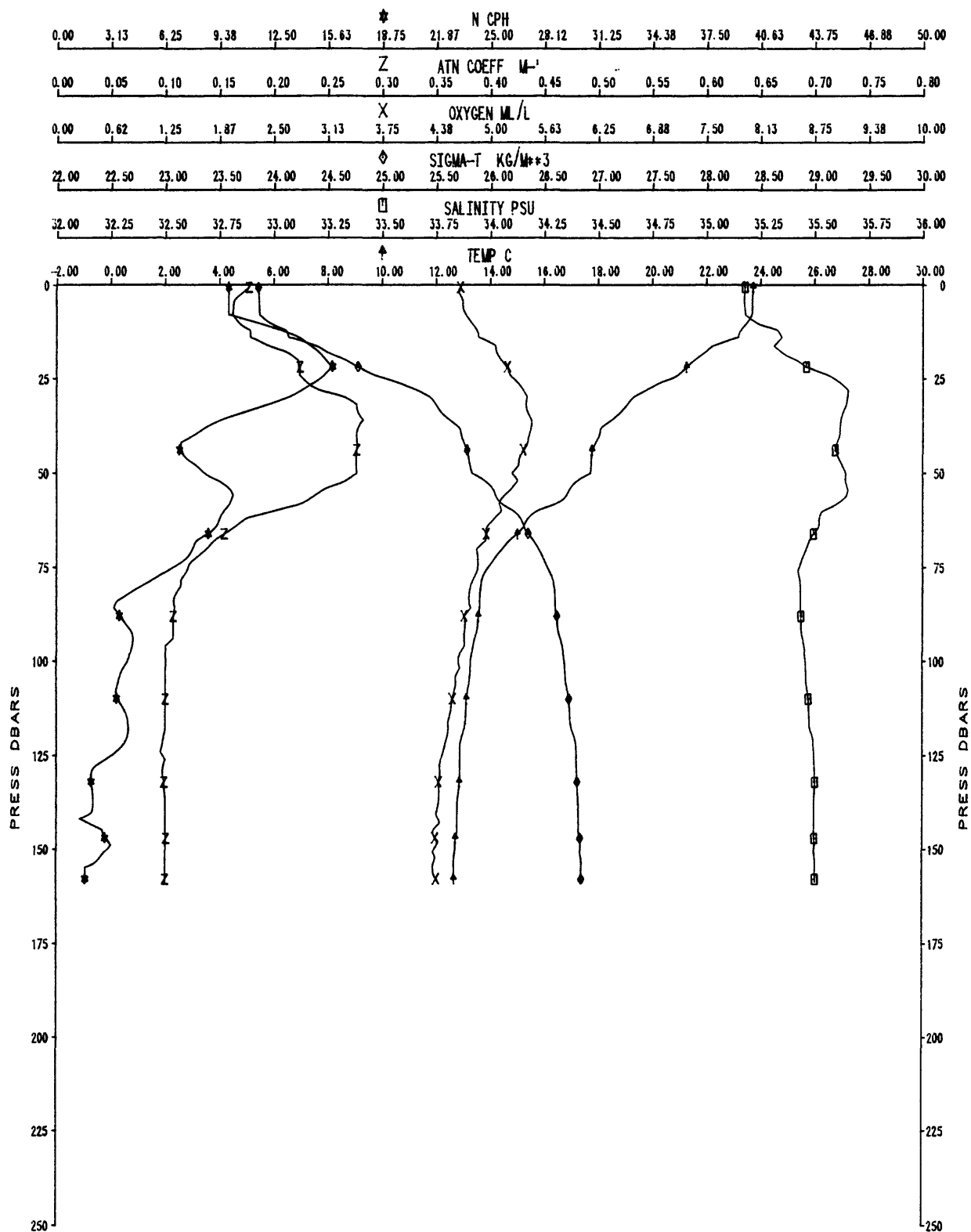
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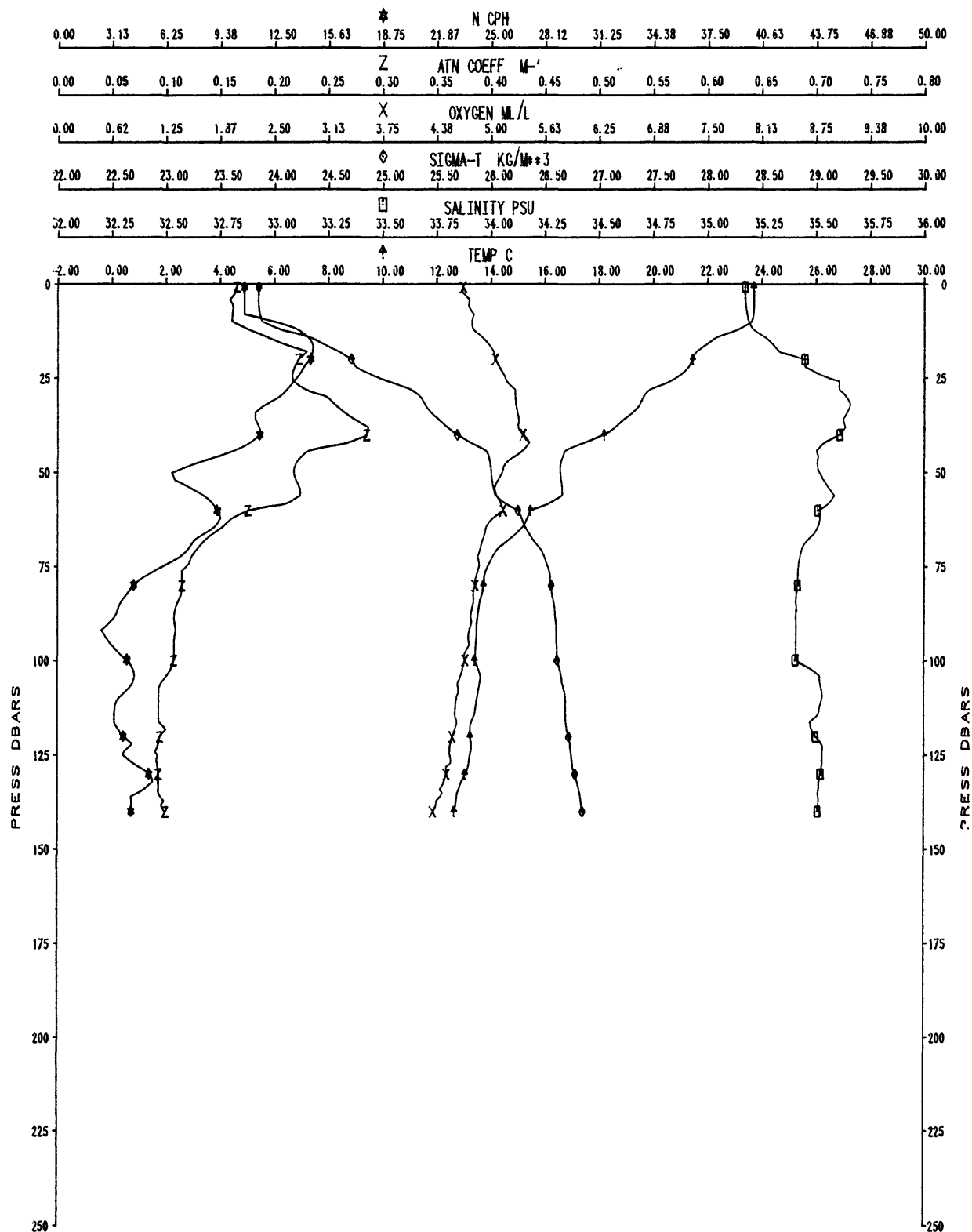
OC122A CAST #23



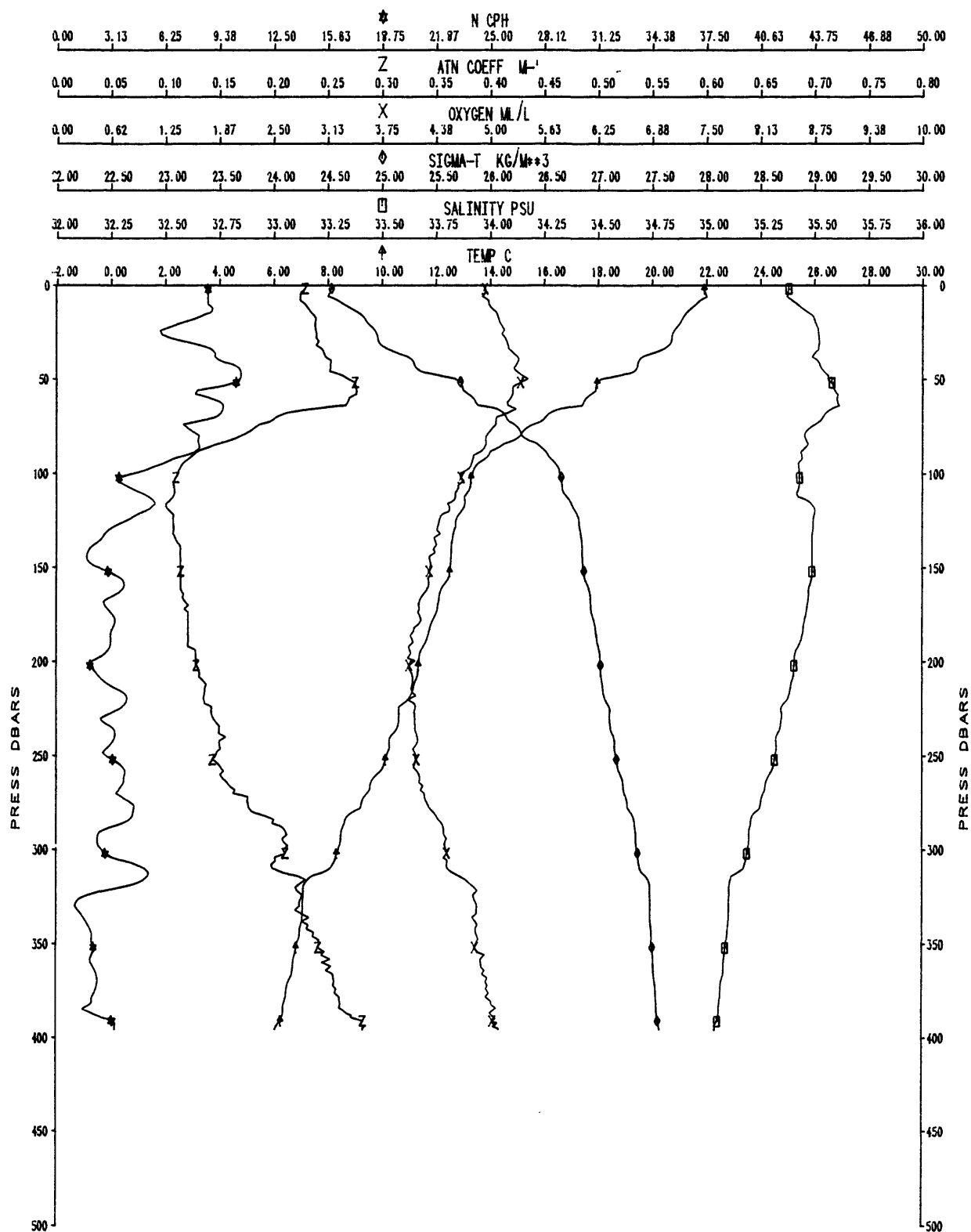
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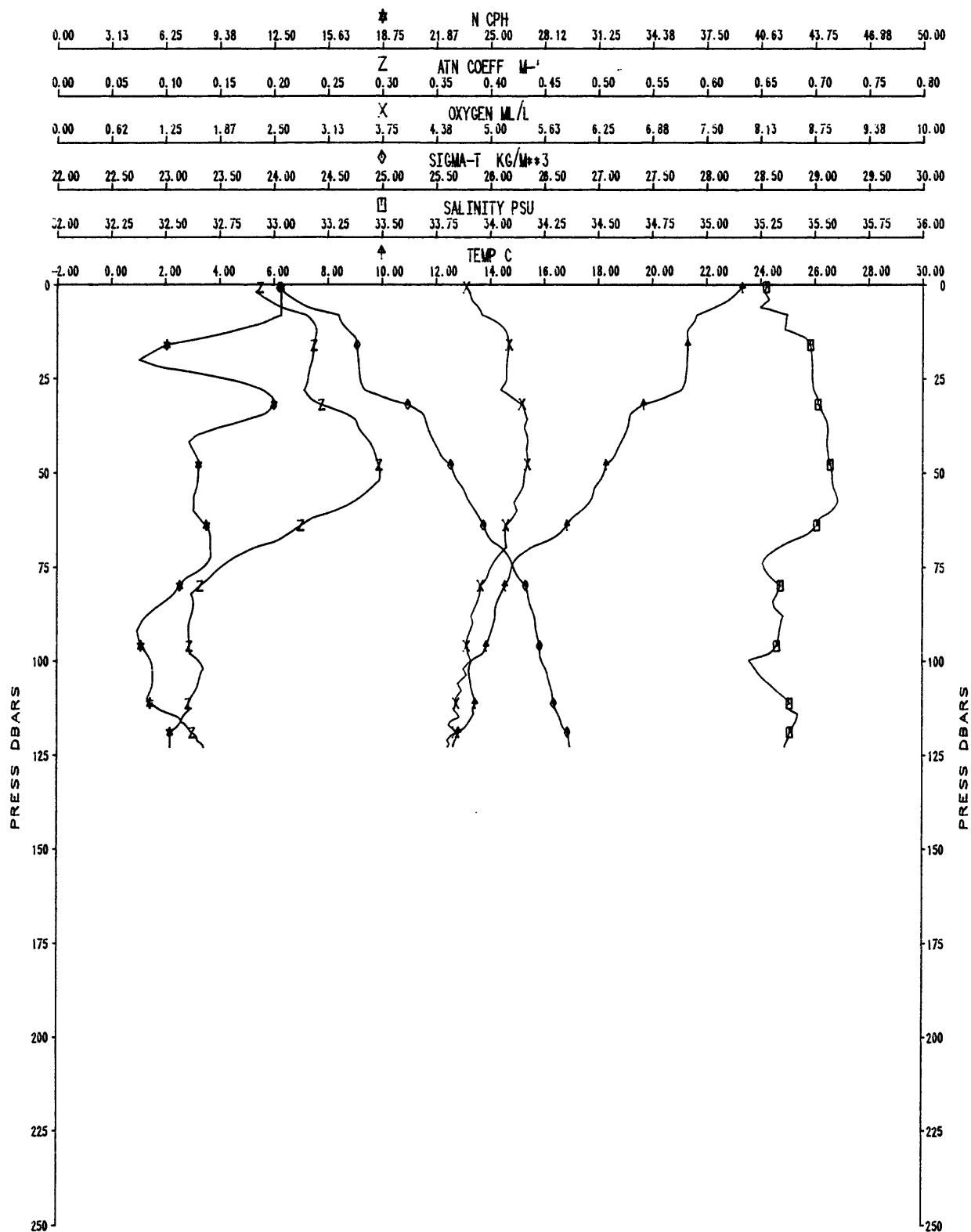
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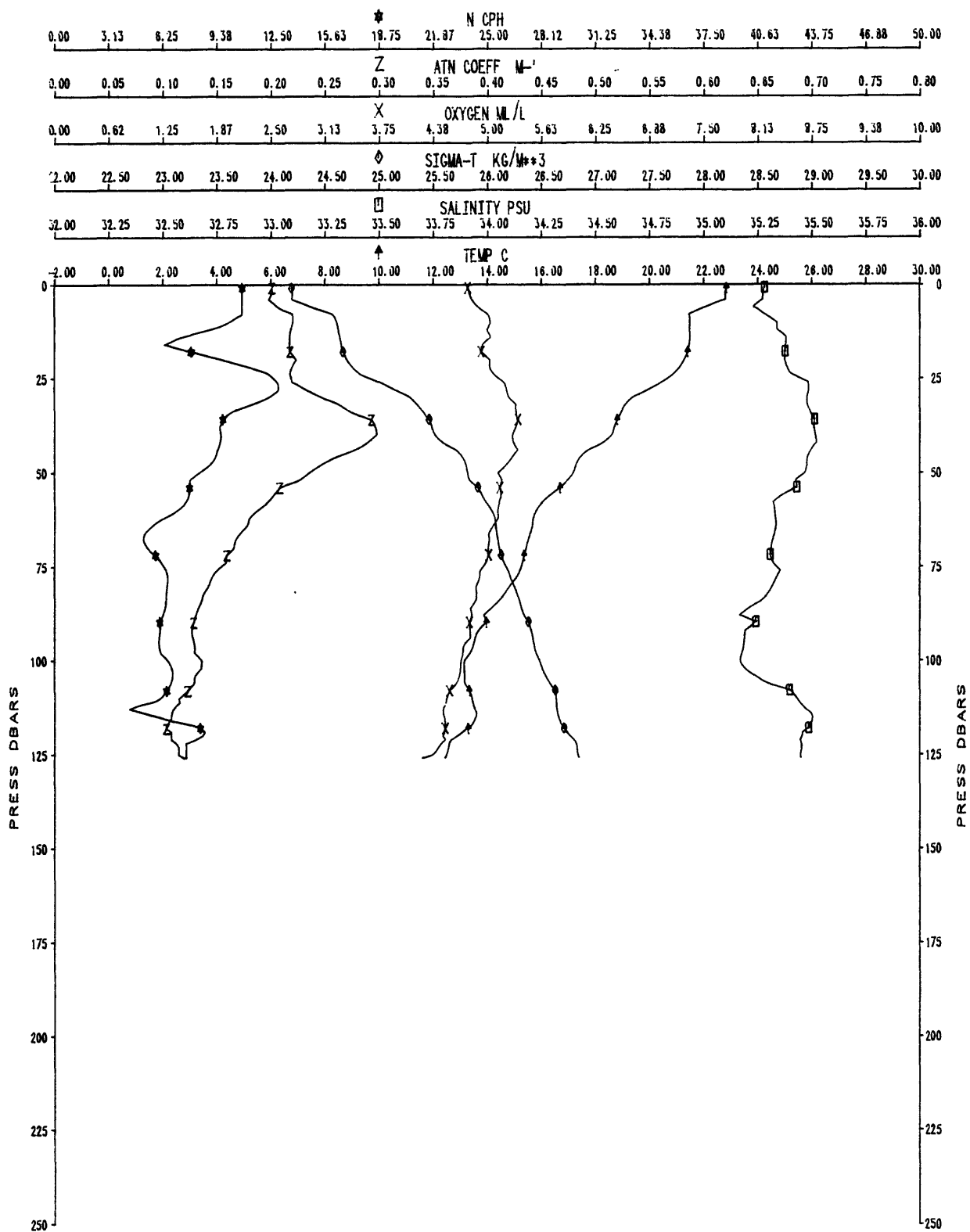
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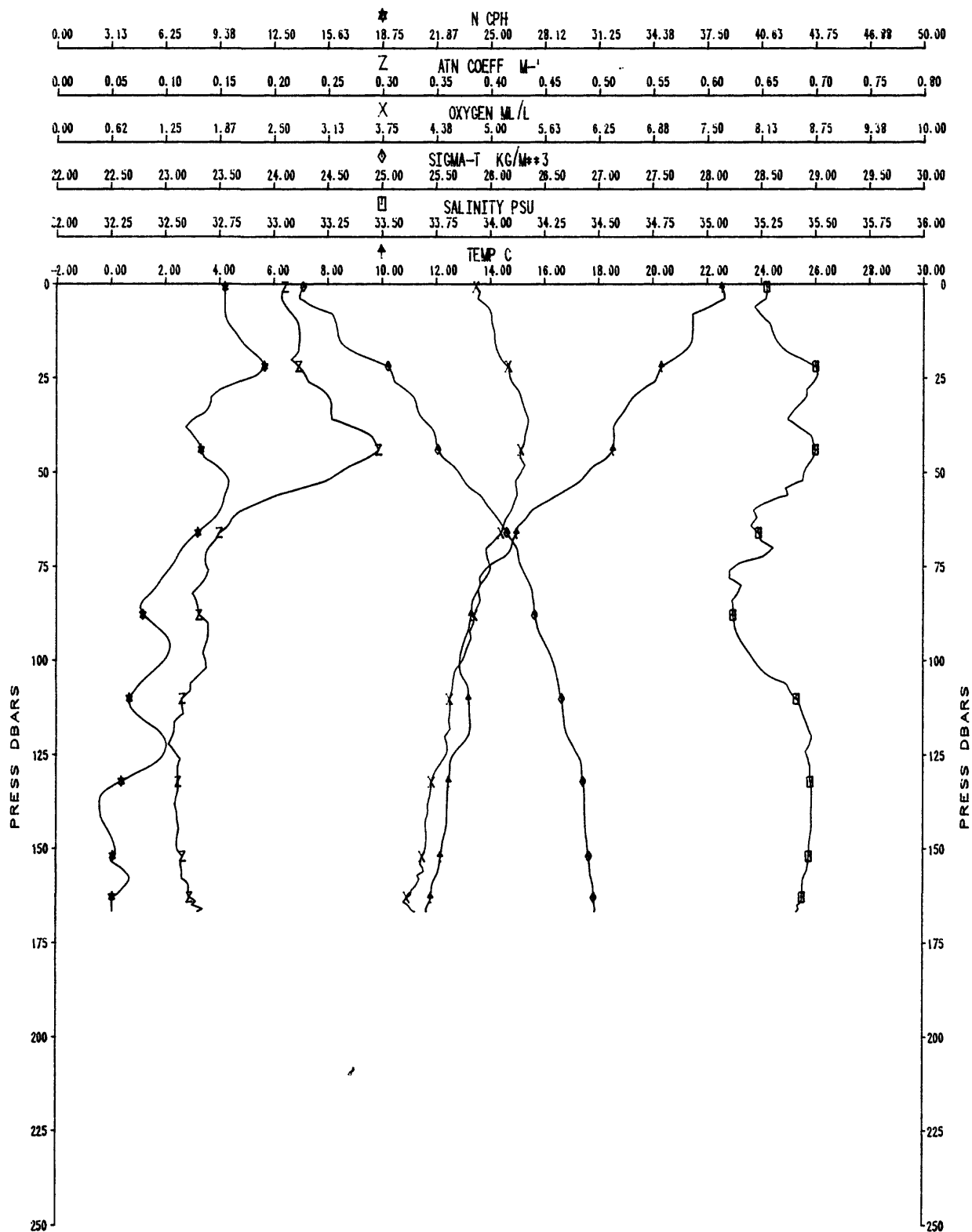
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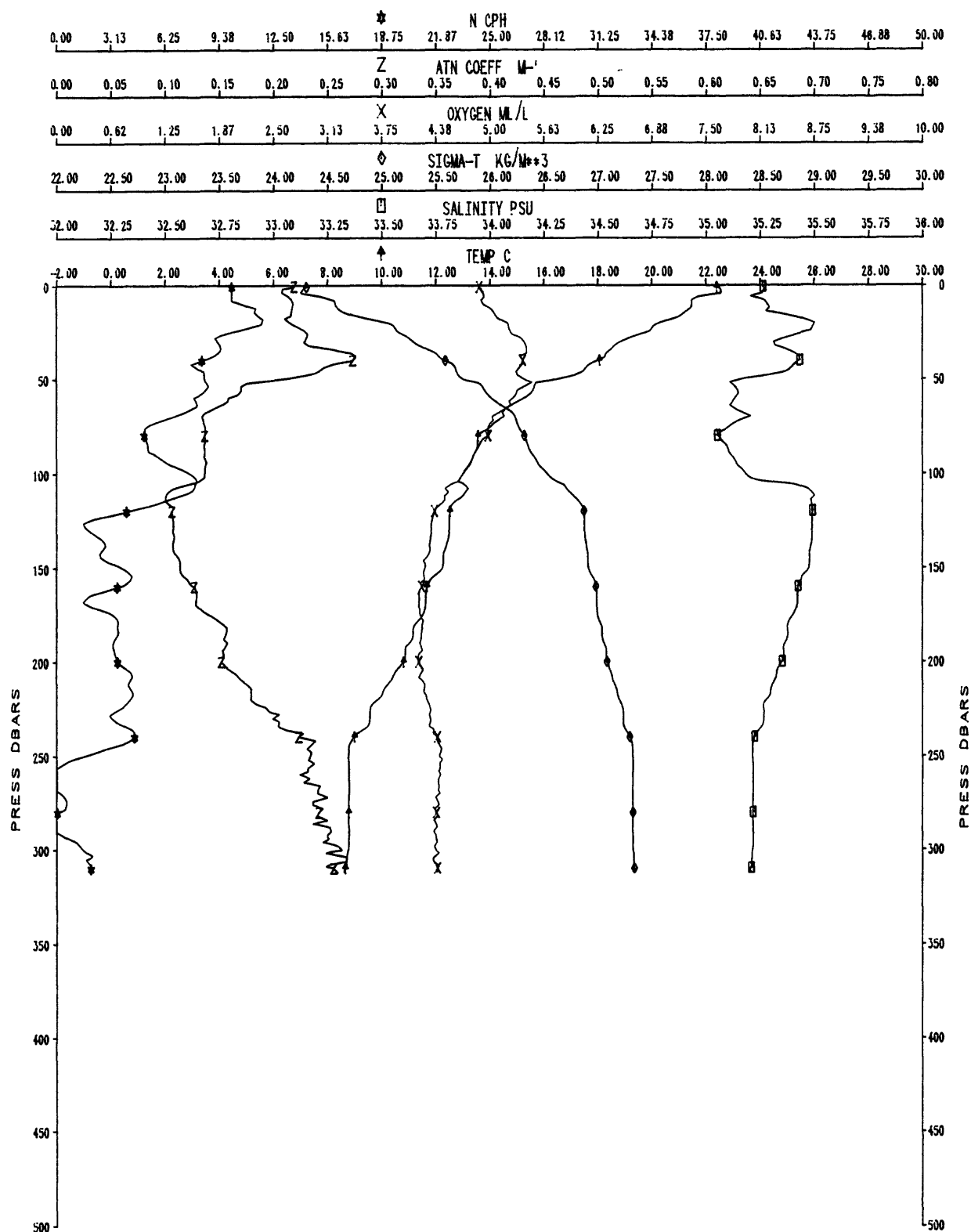
OC122A CAST #28



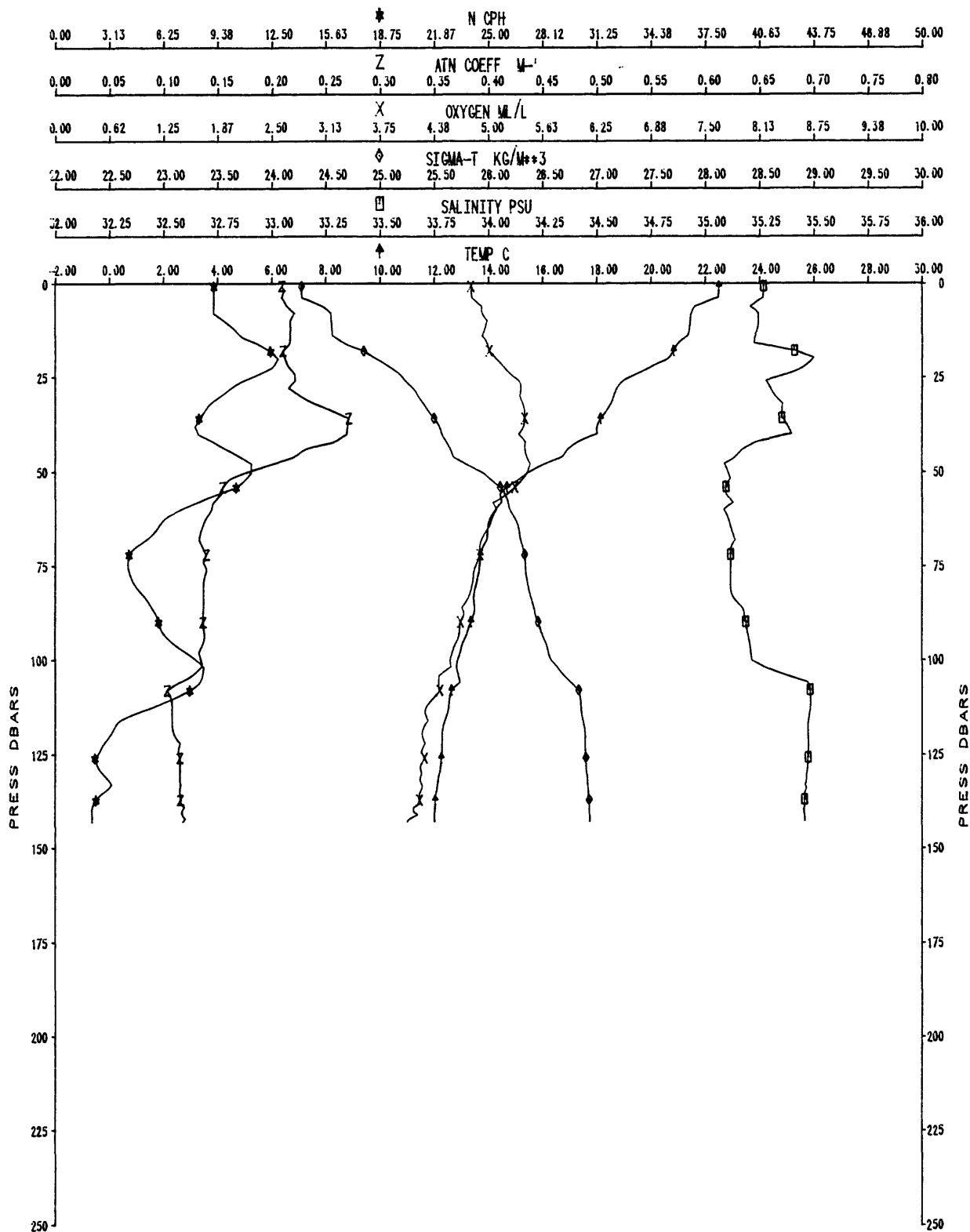
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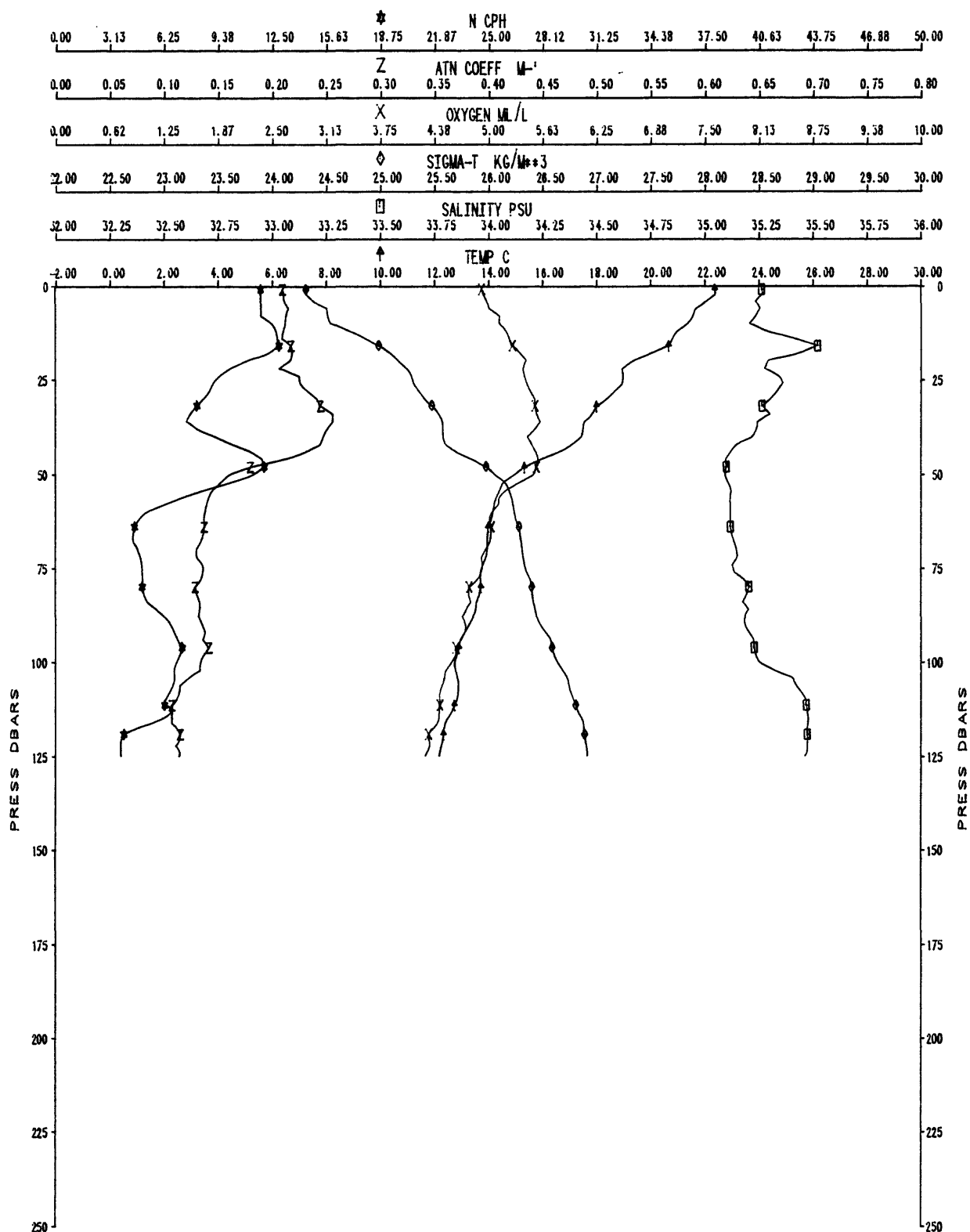
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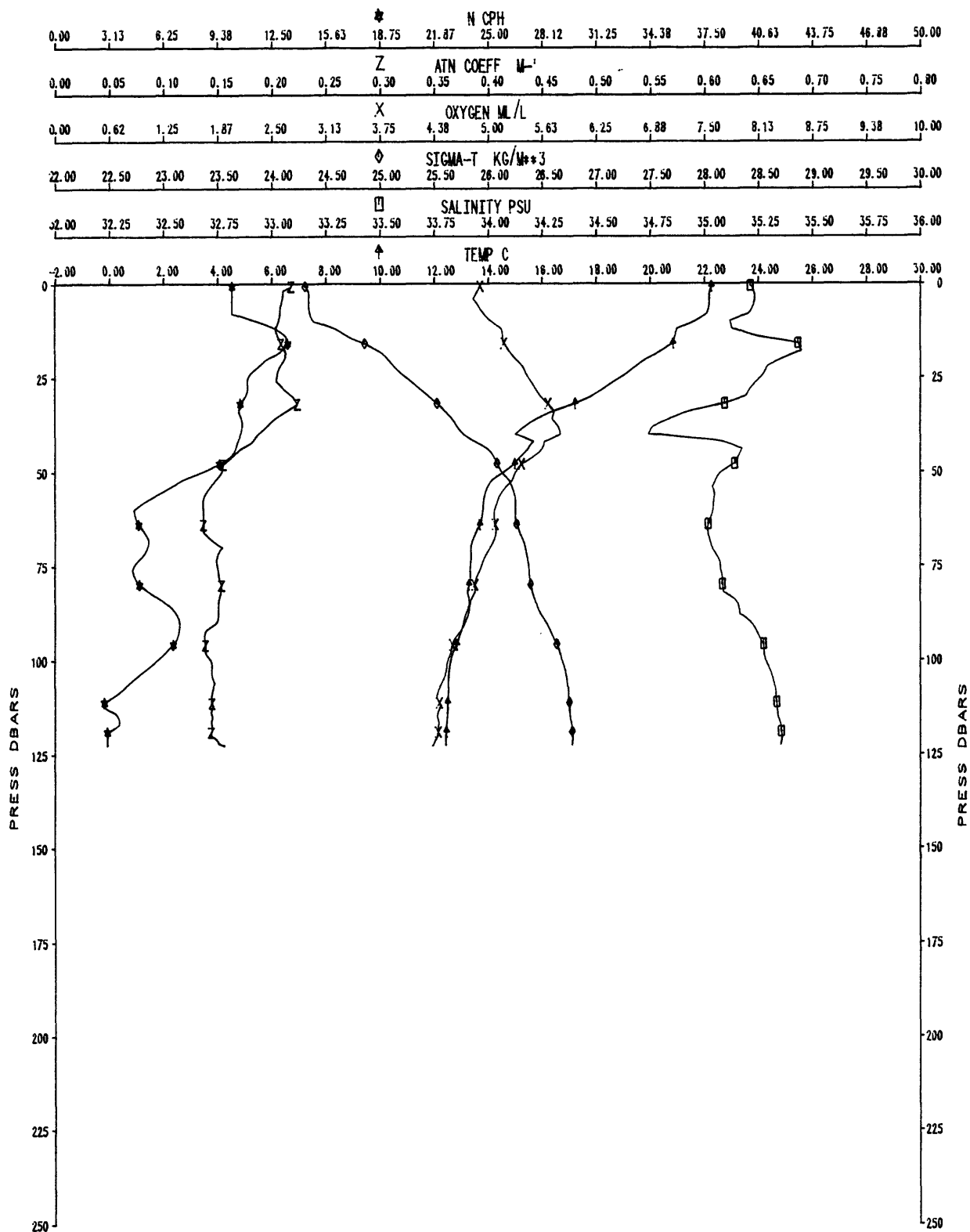
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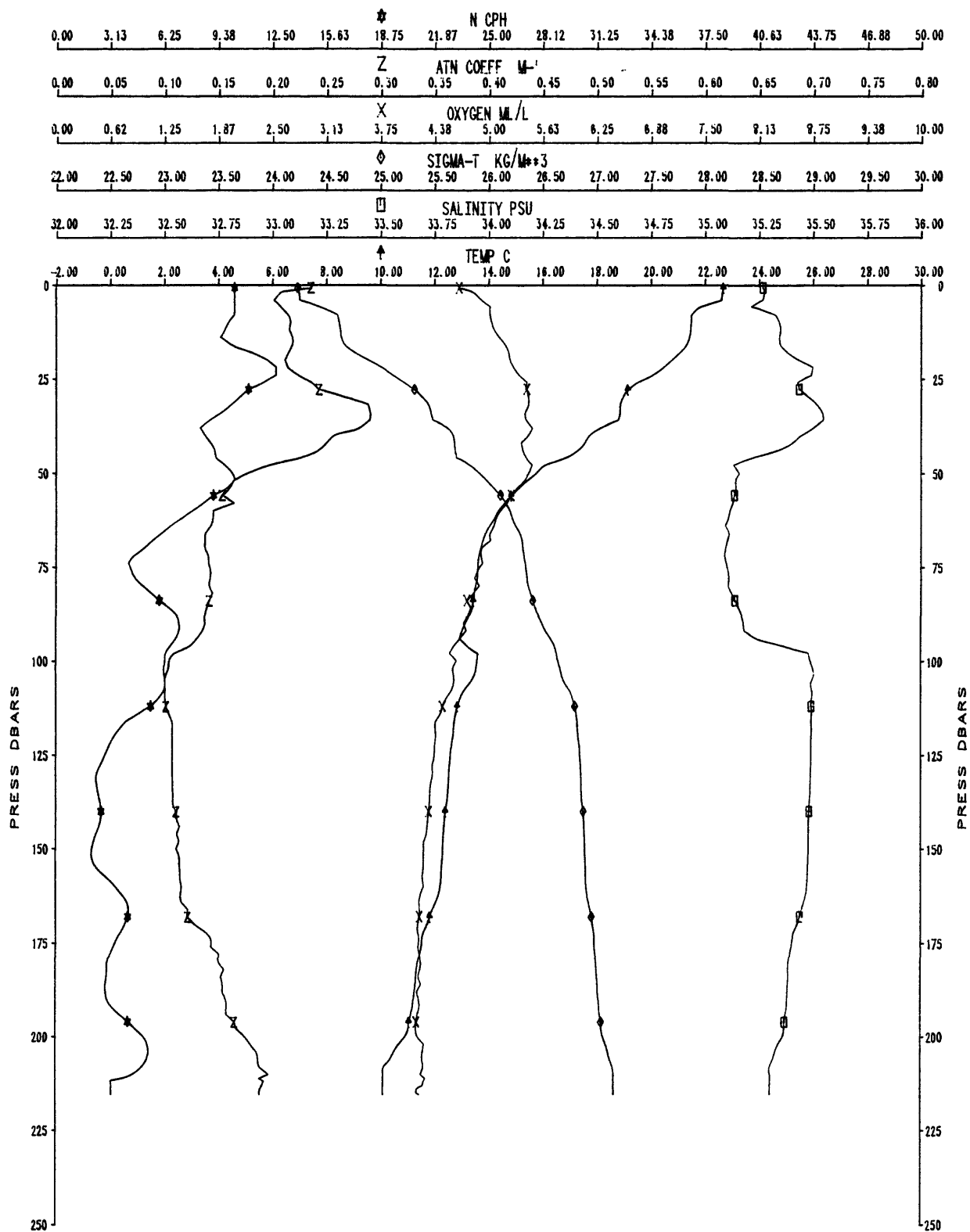
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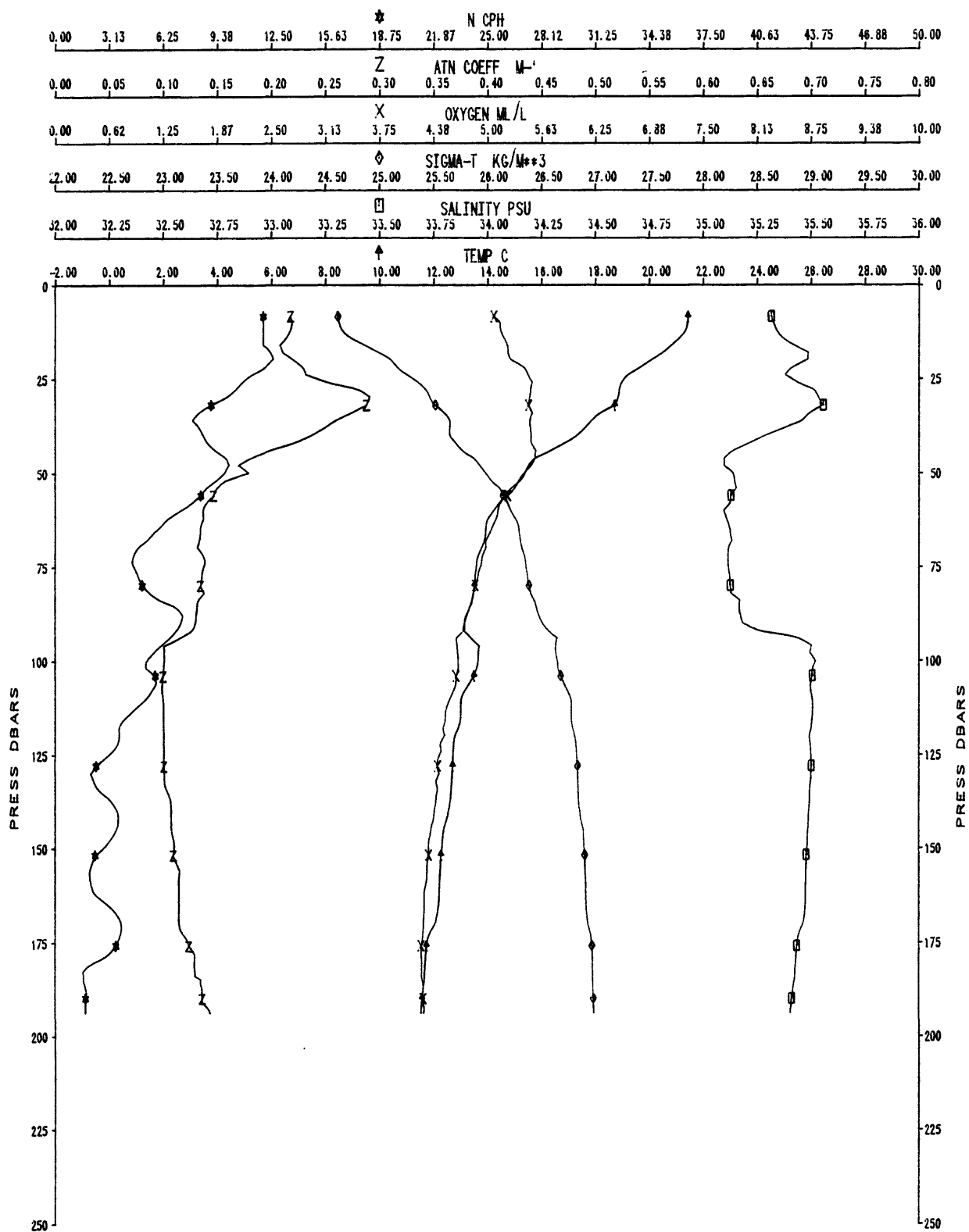
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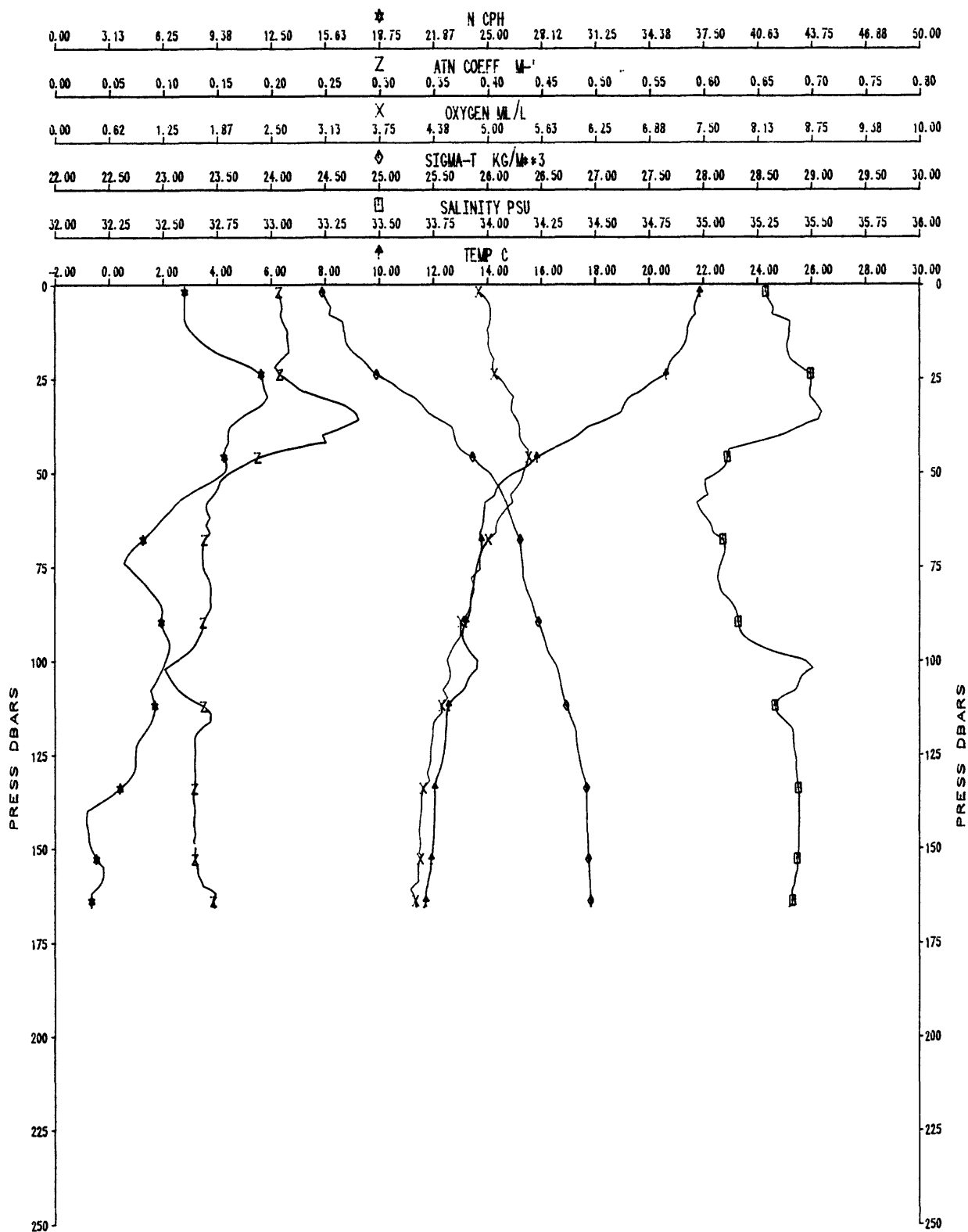
OC122A CAST #34



0C122B CAST #35

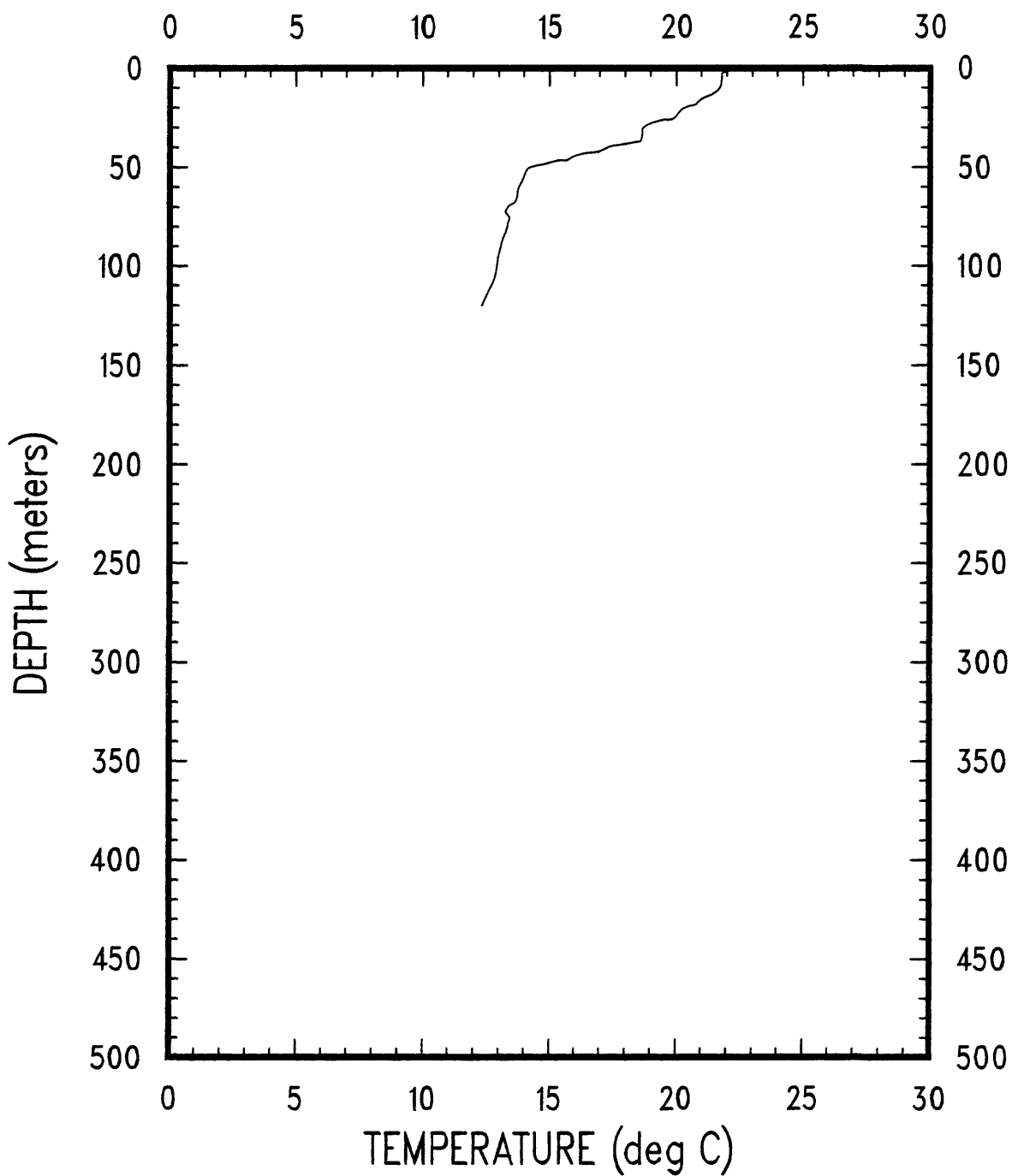


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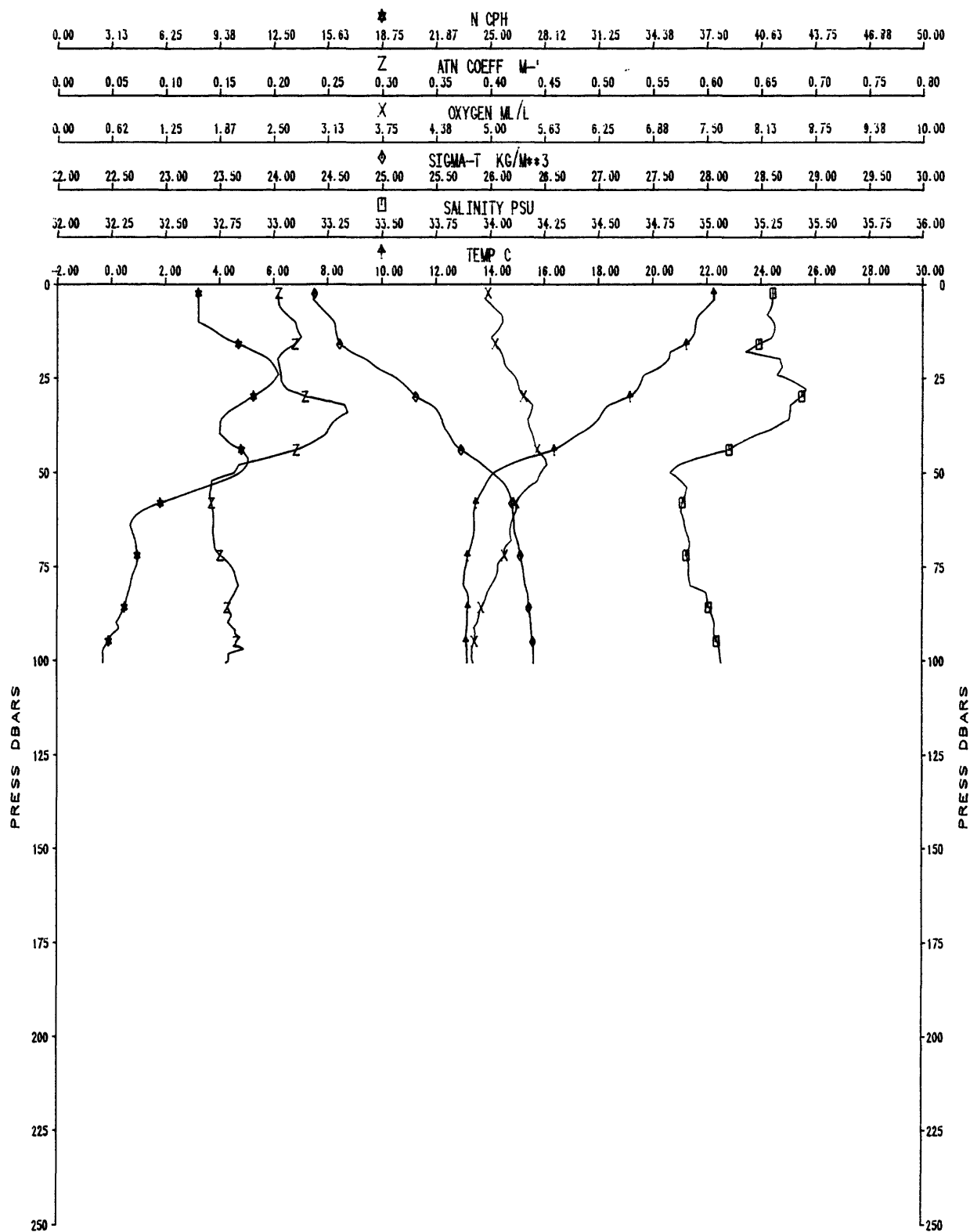


0C122

XBT-37

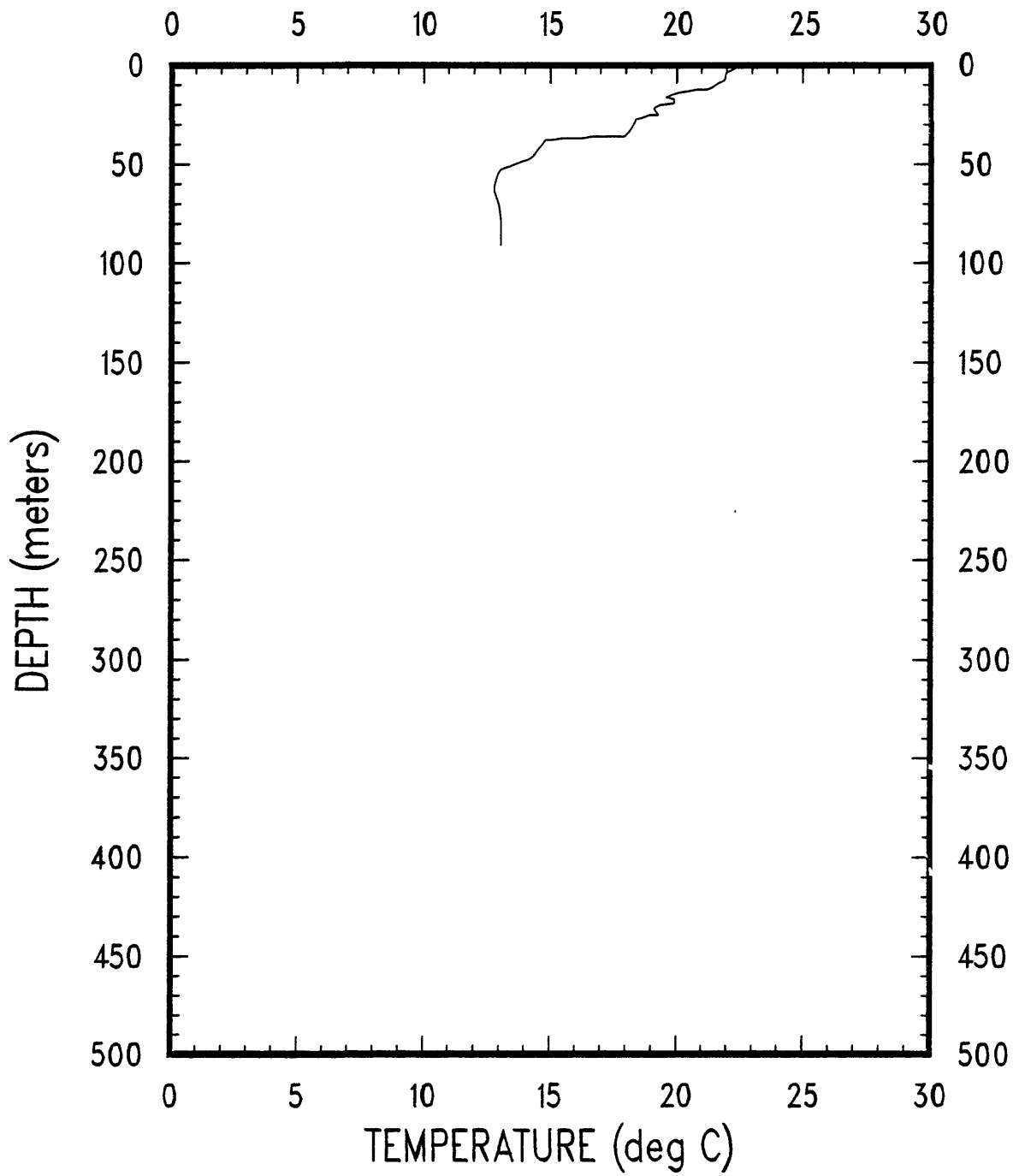


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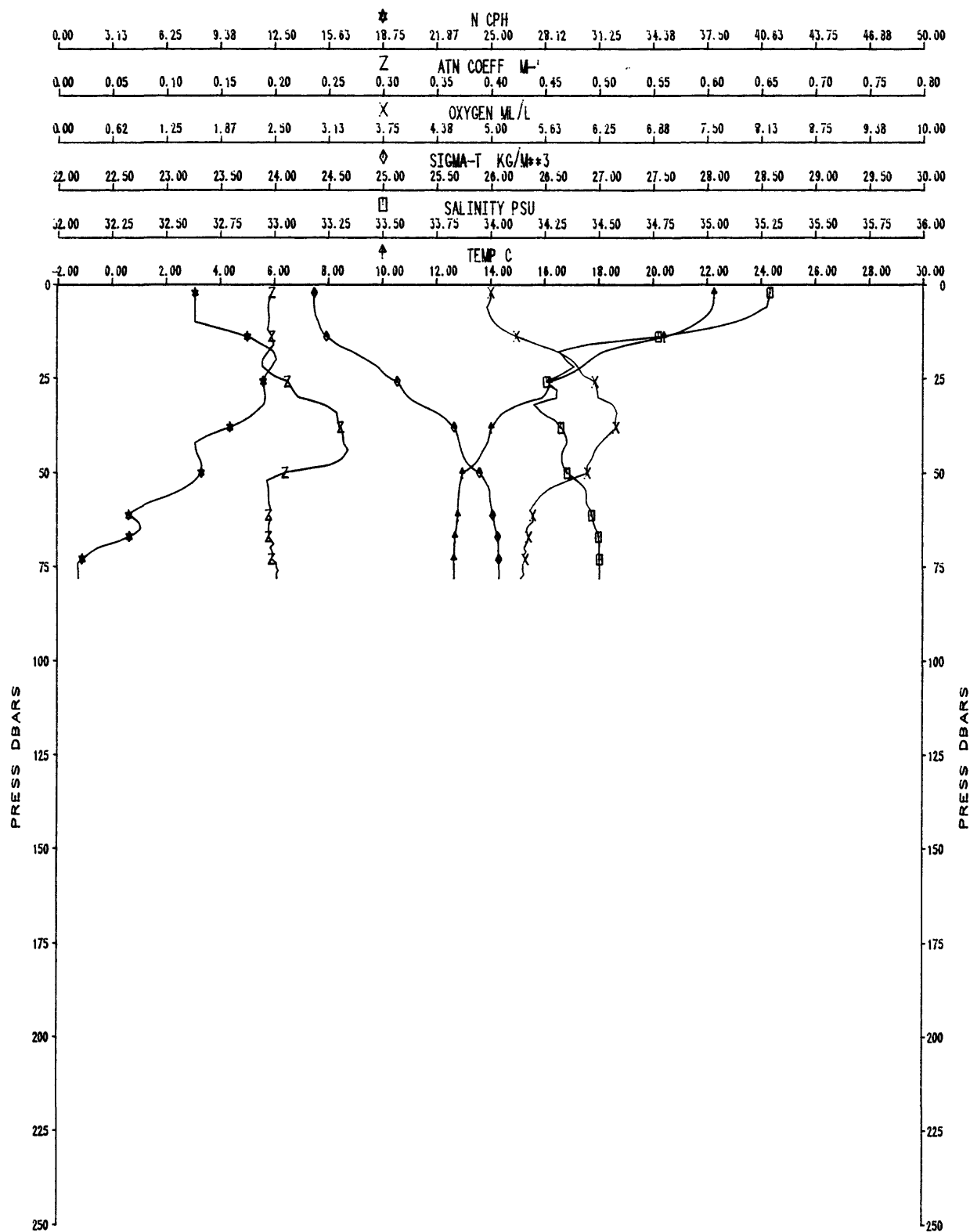


OC122

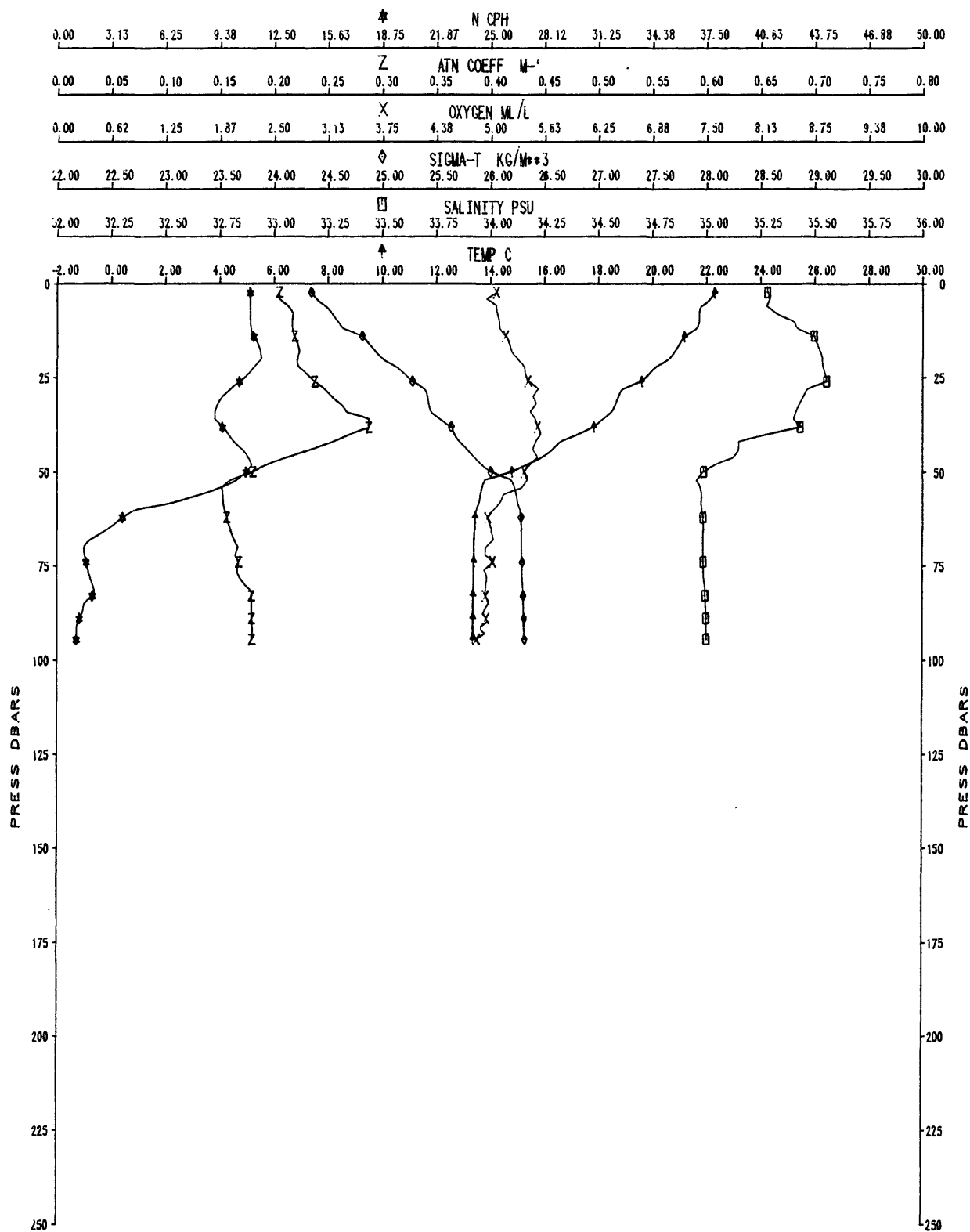
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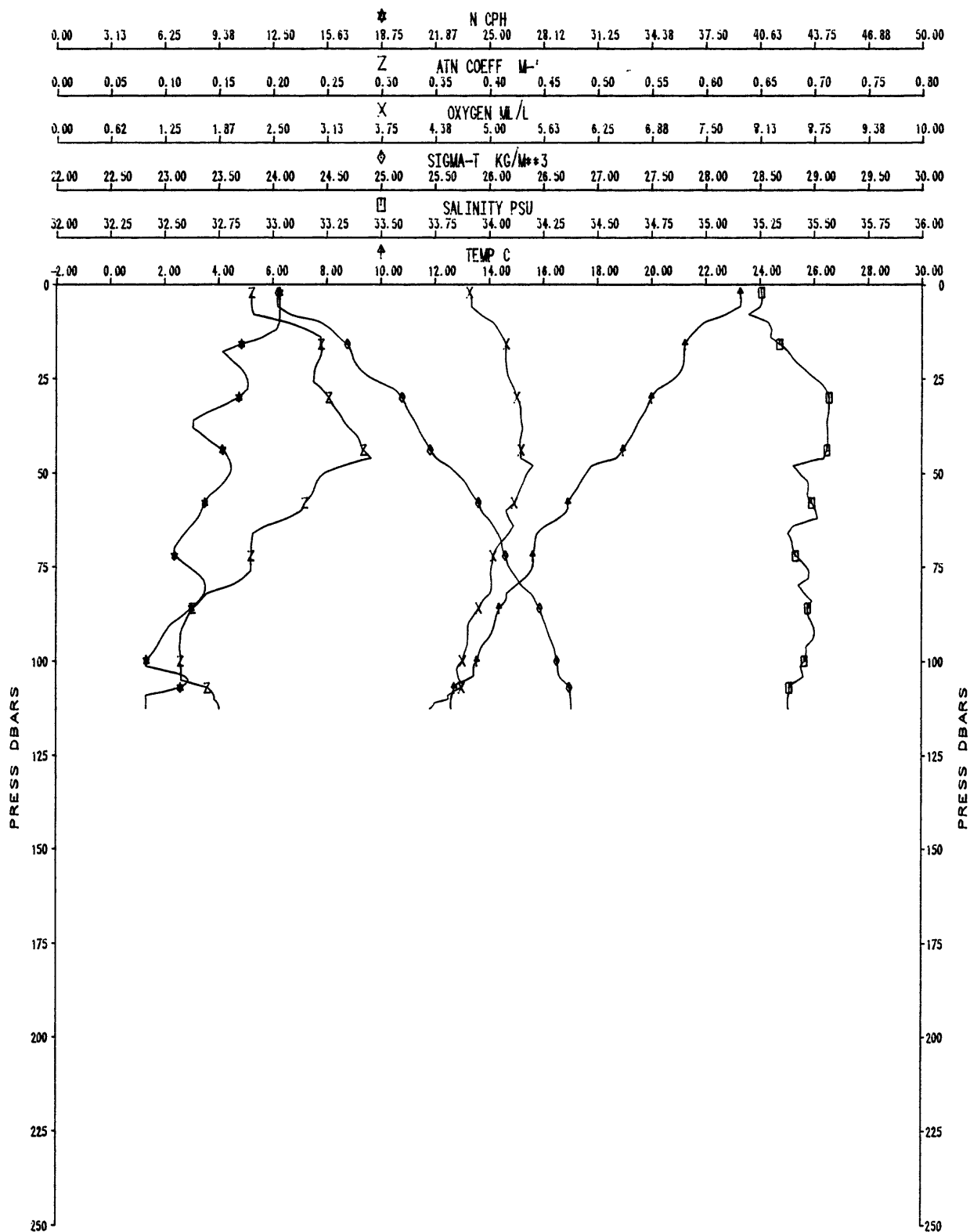
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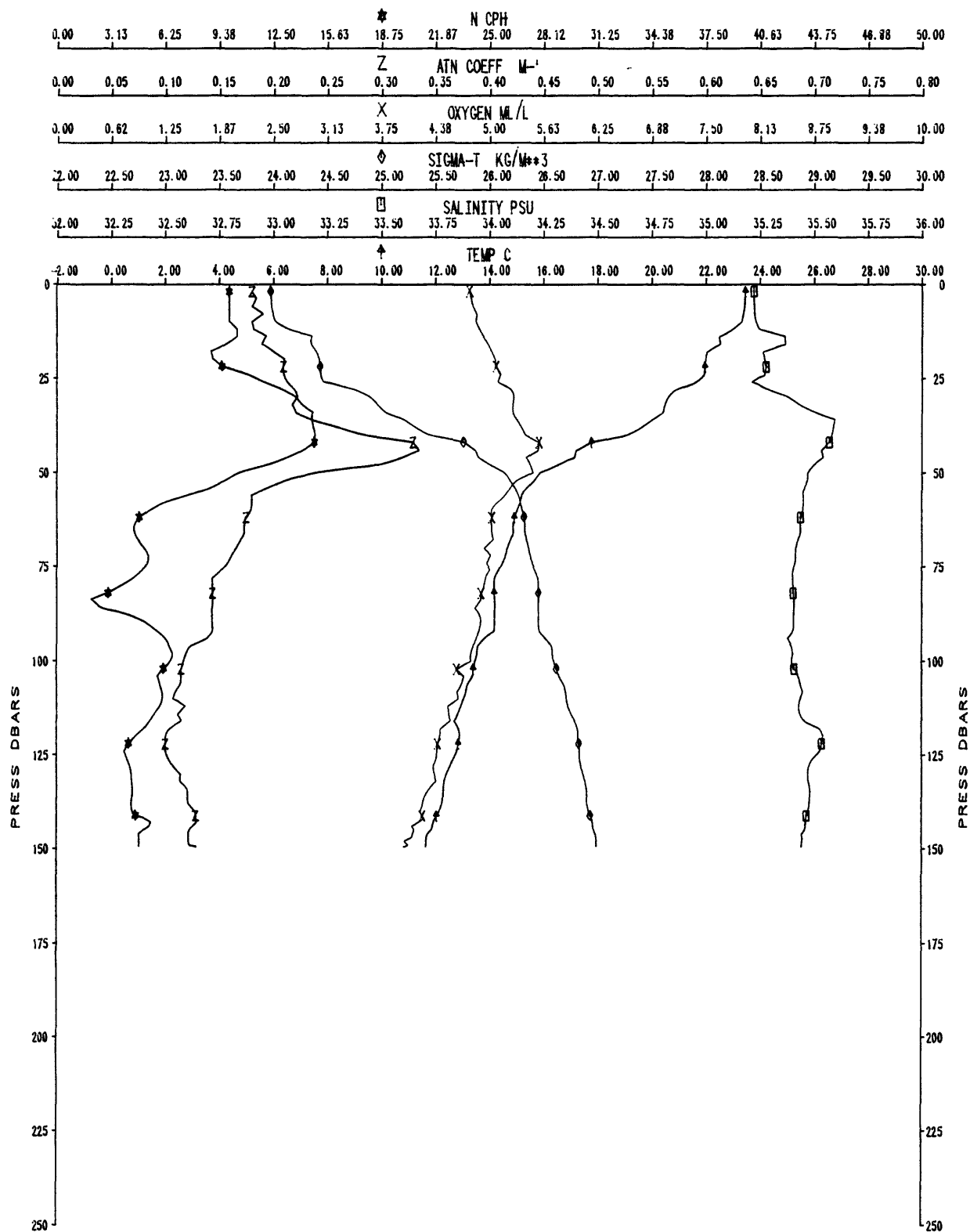
OC122A CAST #41



OC122A CAST #42

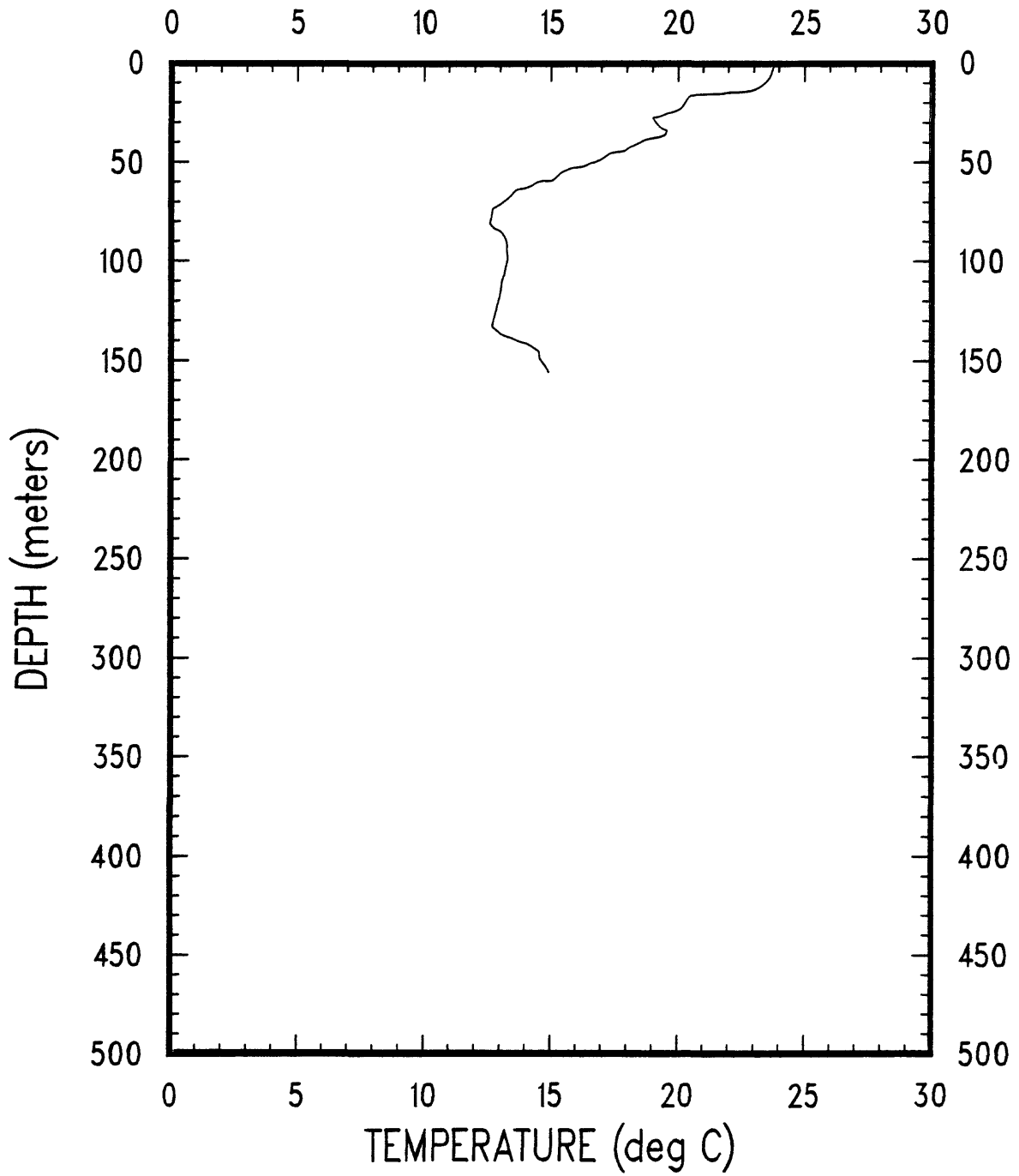


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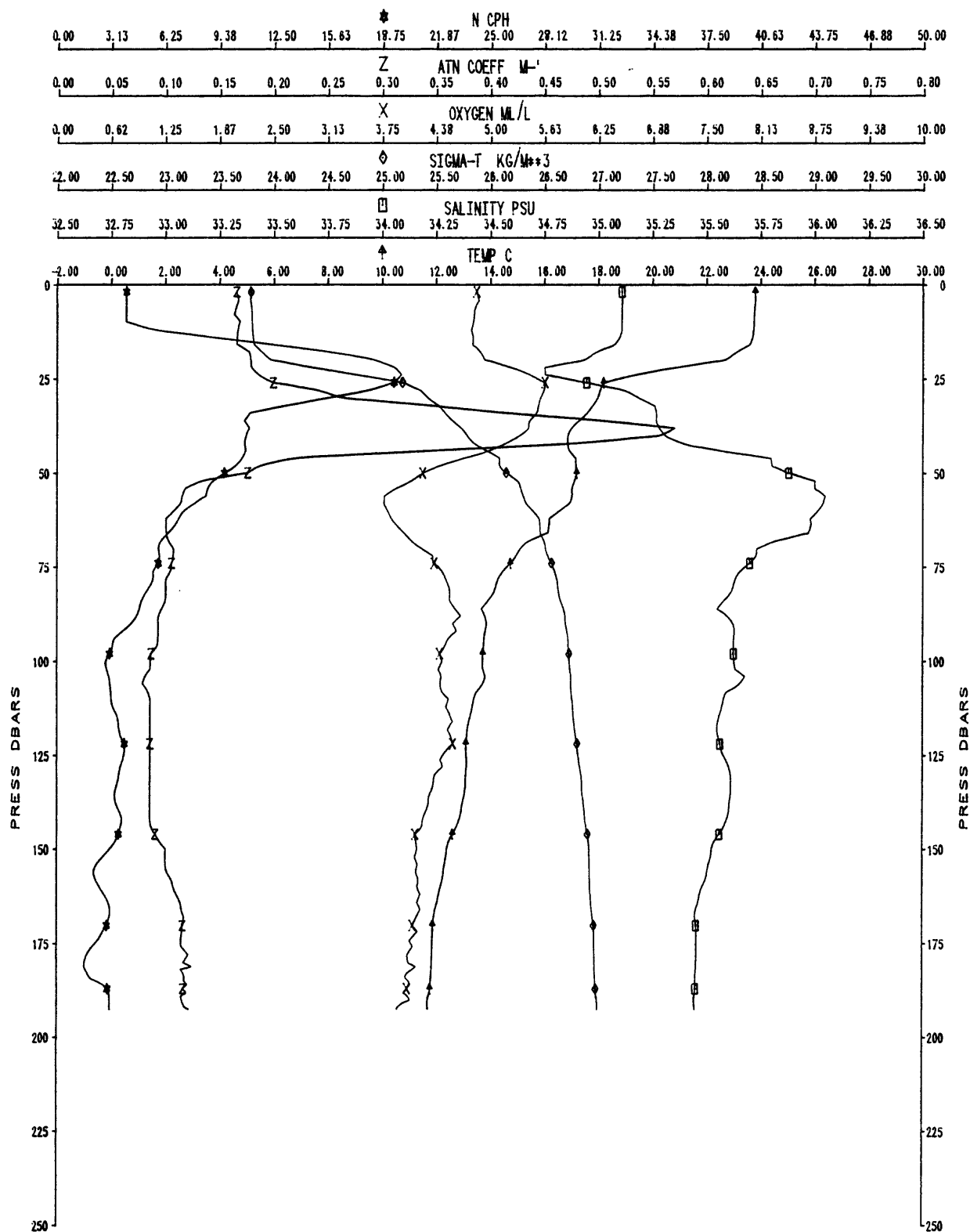


OC122

XBT-44

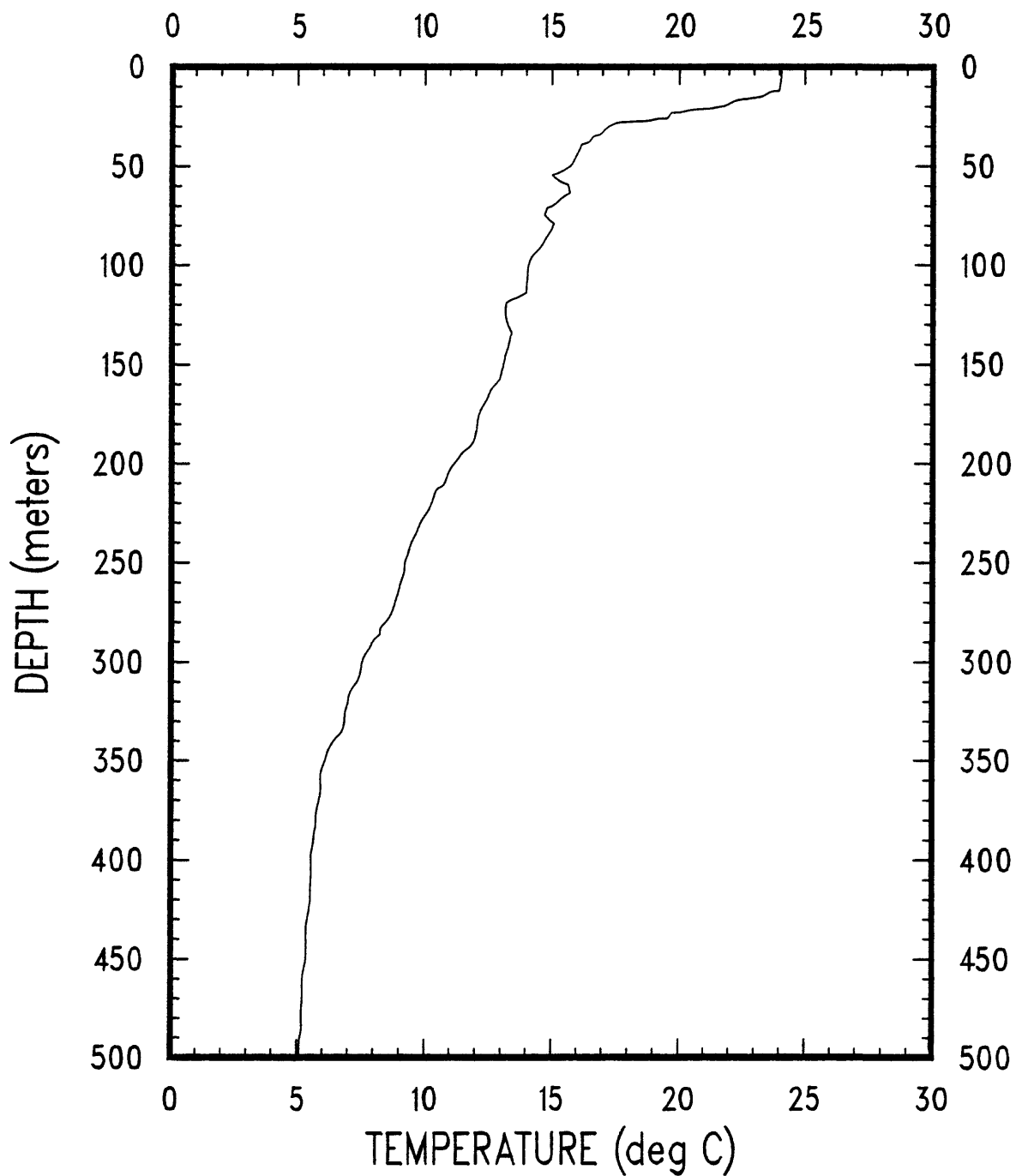


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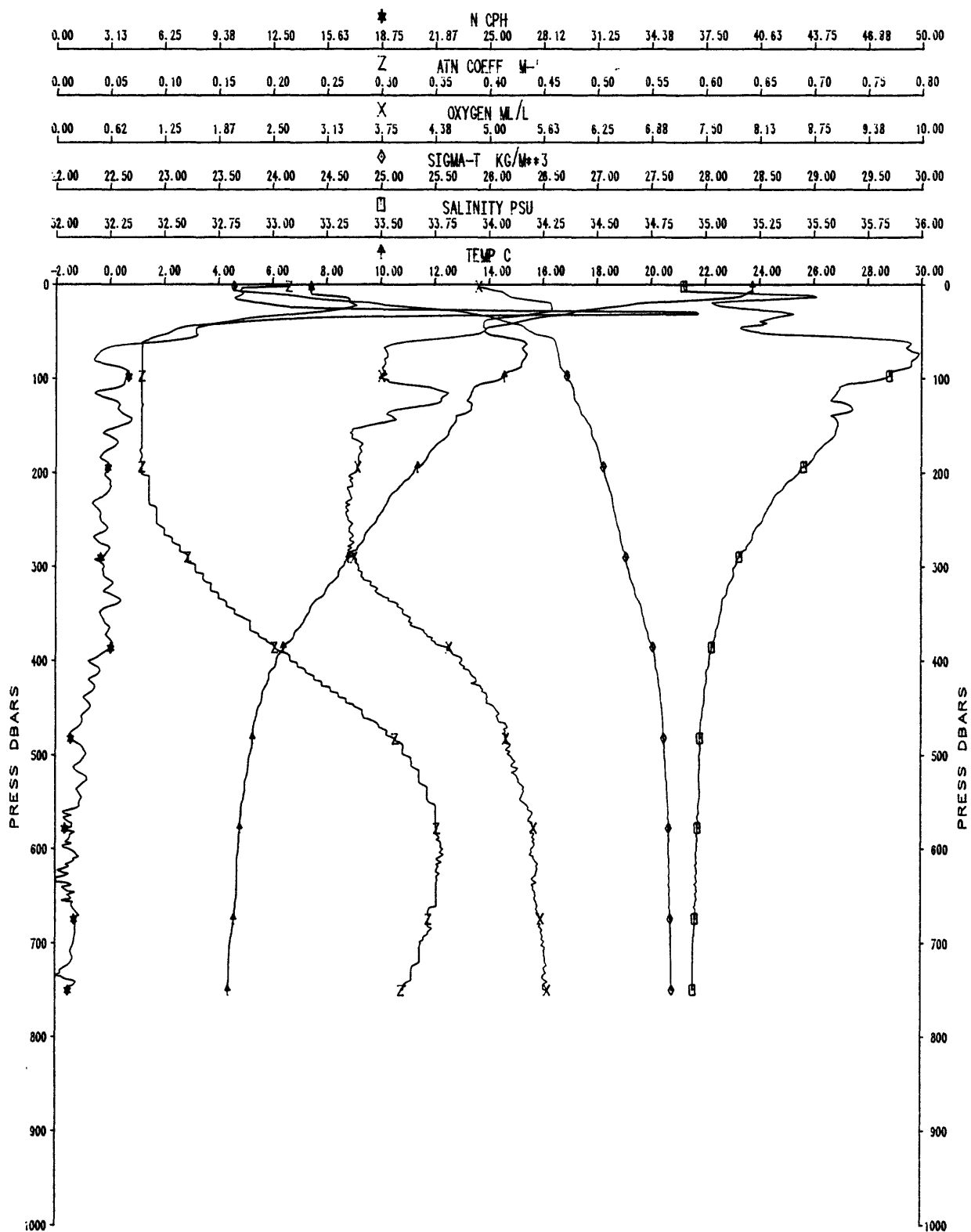


OC122

XBT-46

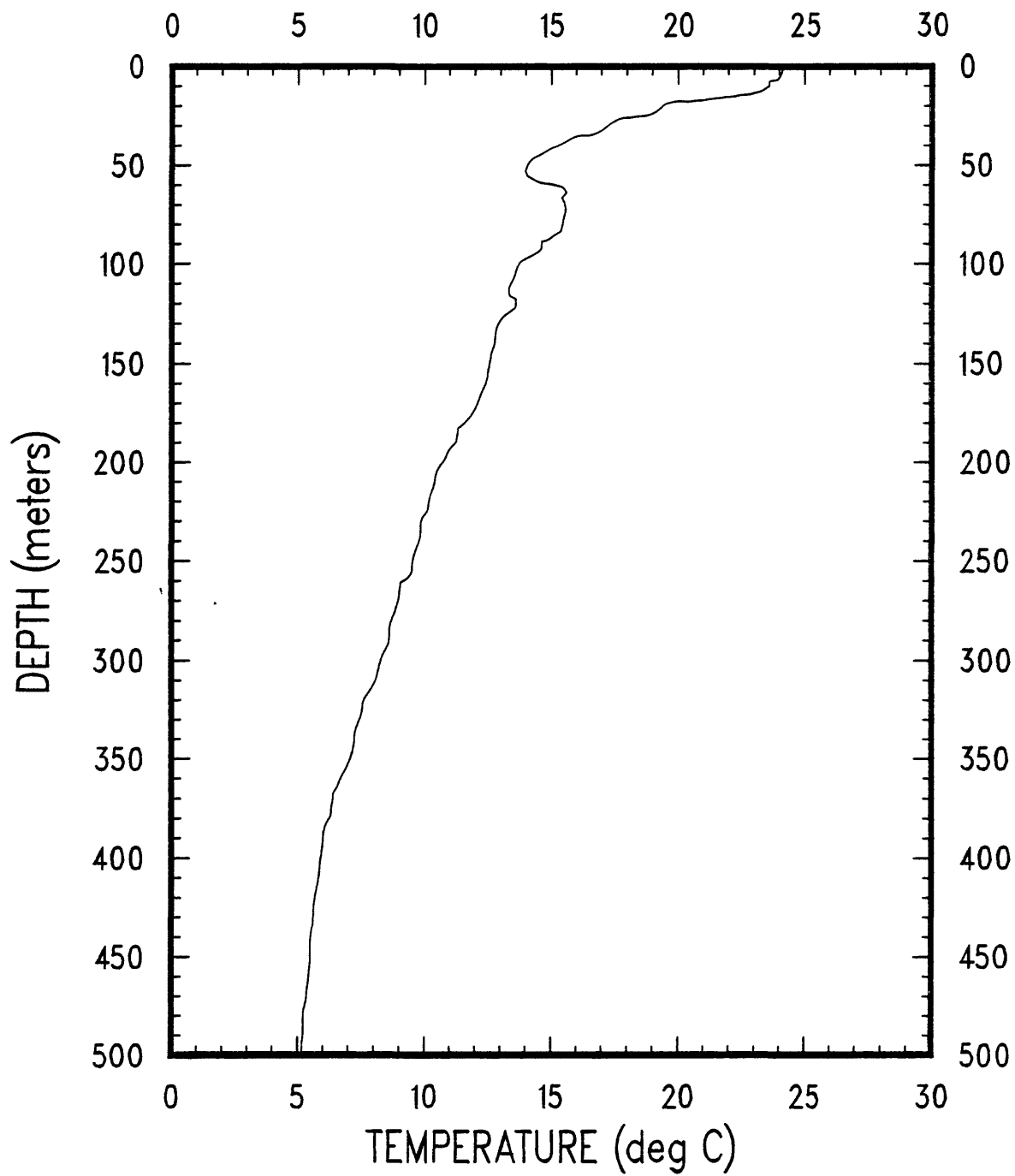


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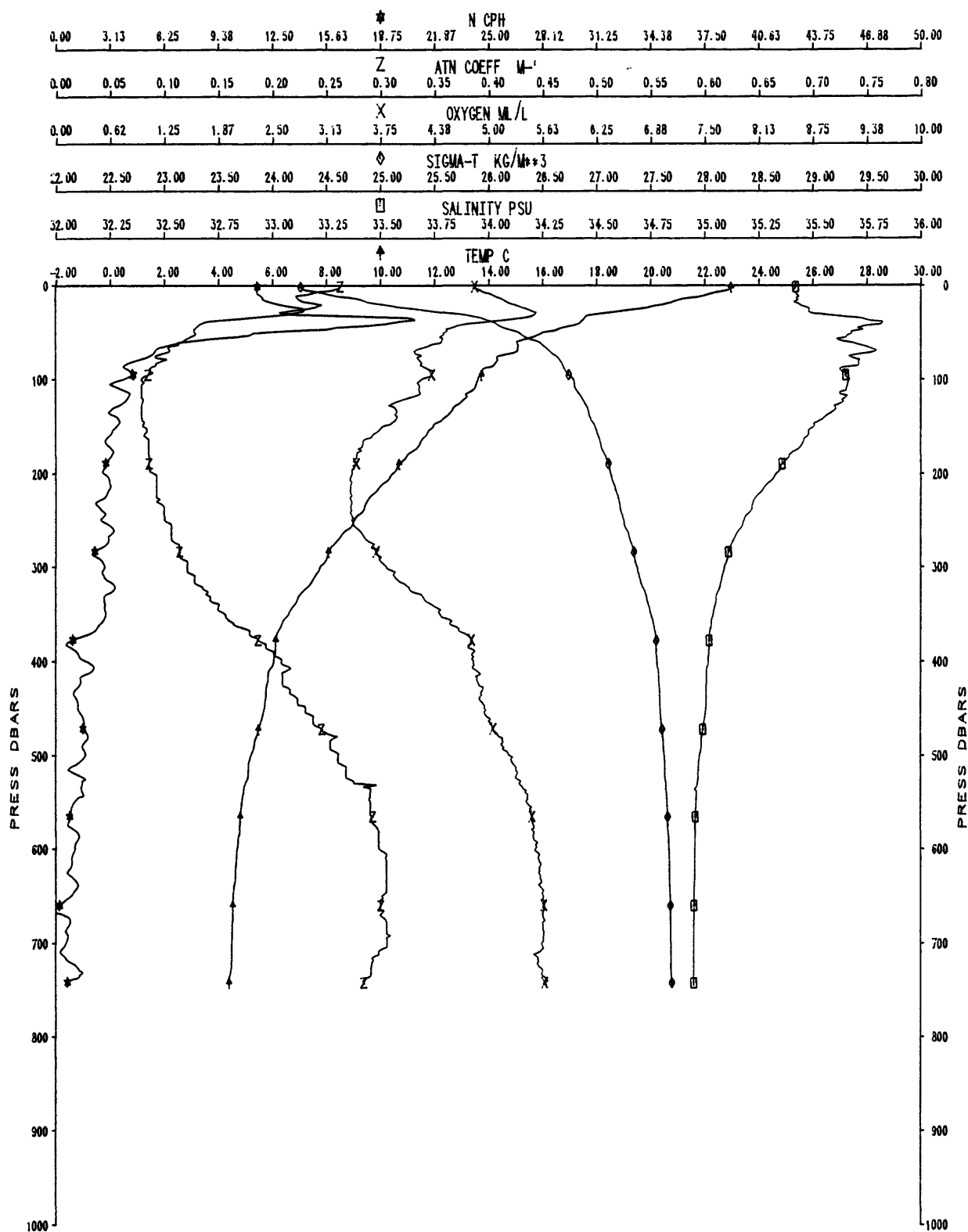


0C122

XBT-48

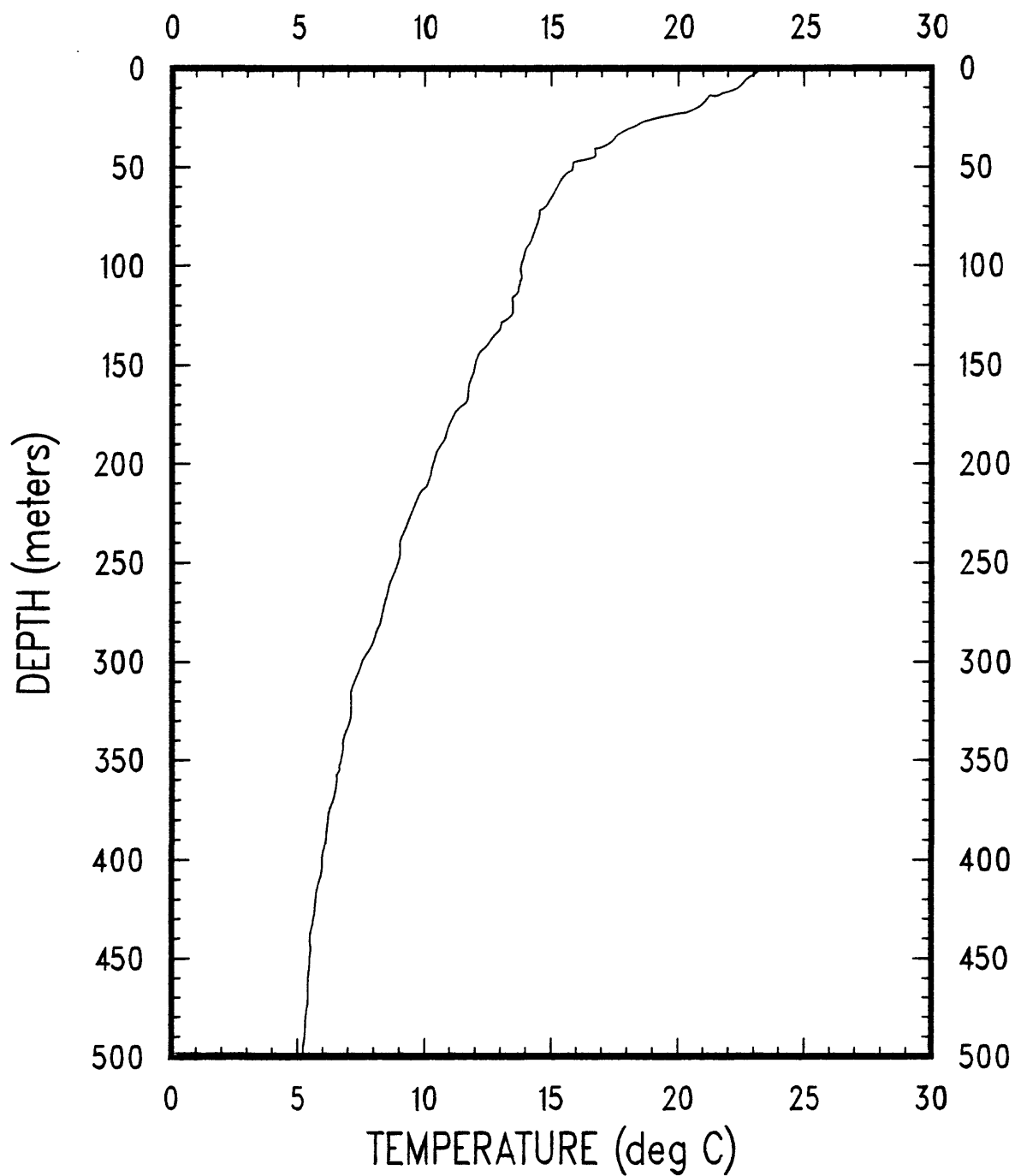


OC122A CAST #49



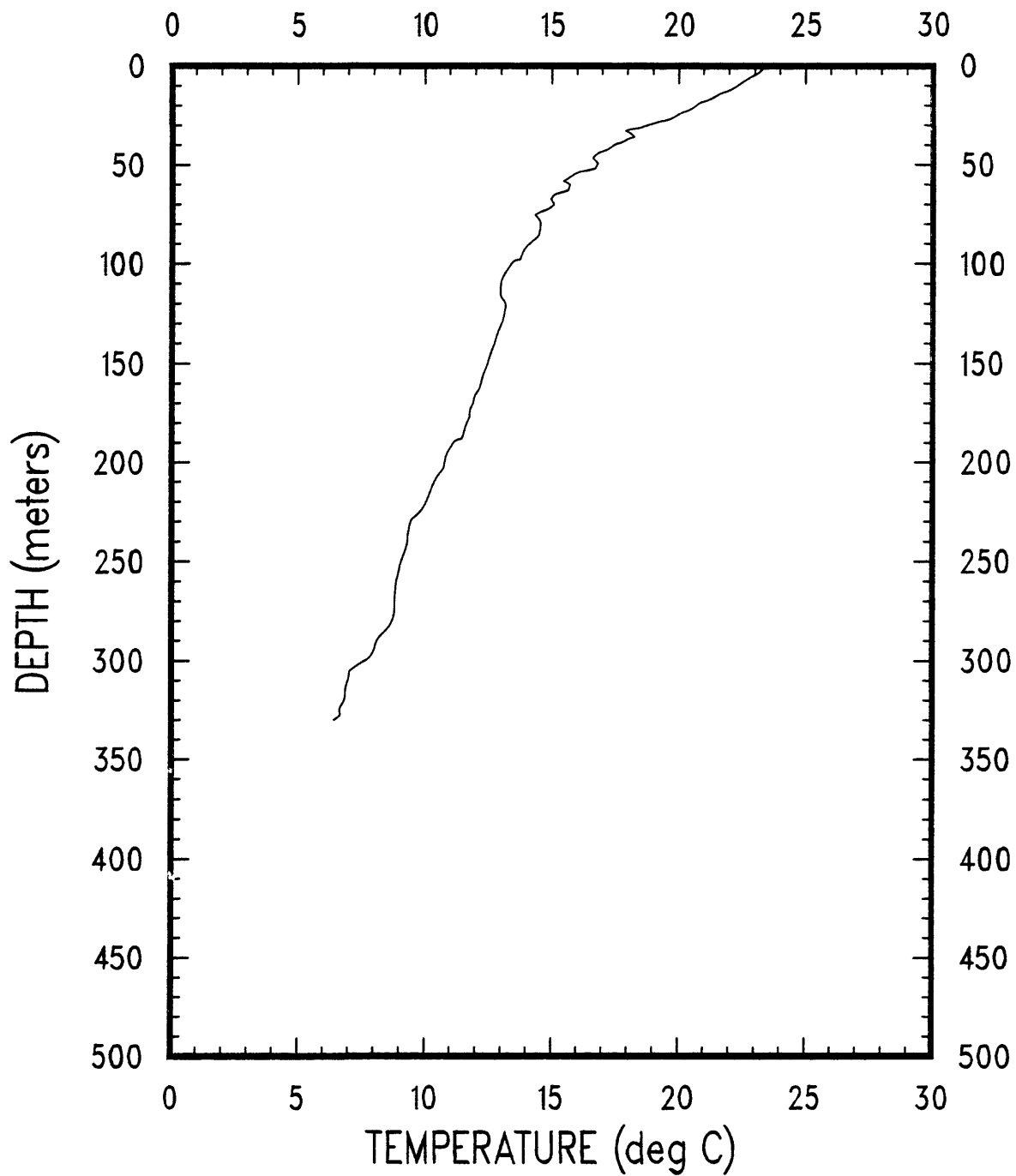
0C122

XBT-50

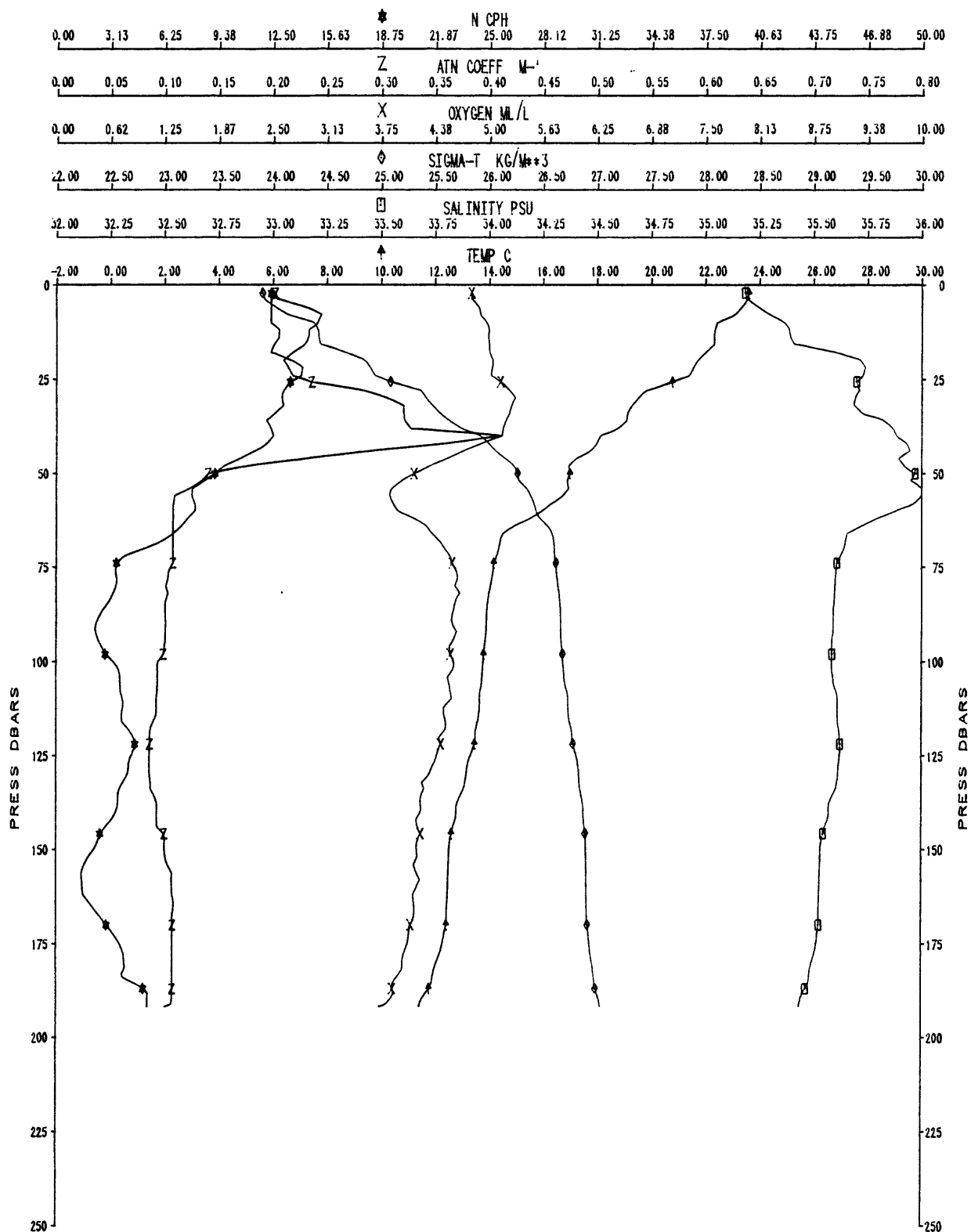


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XBT-51

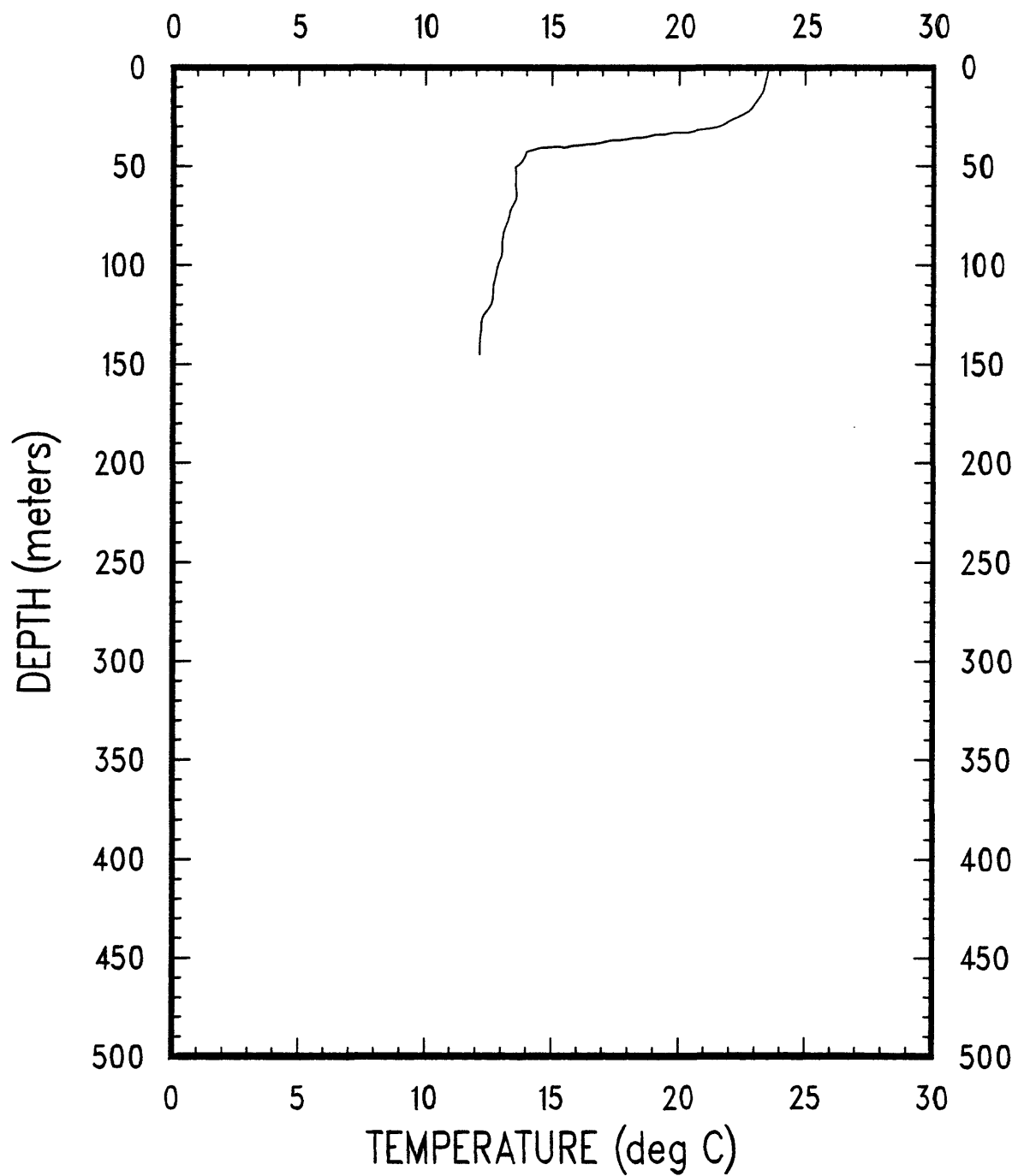


OC122A CAST #52

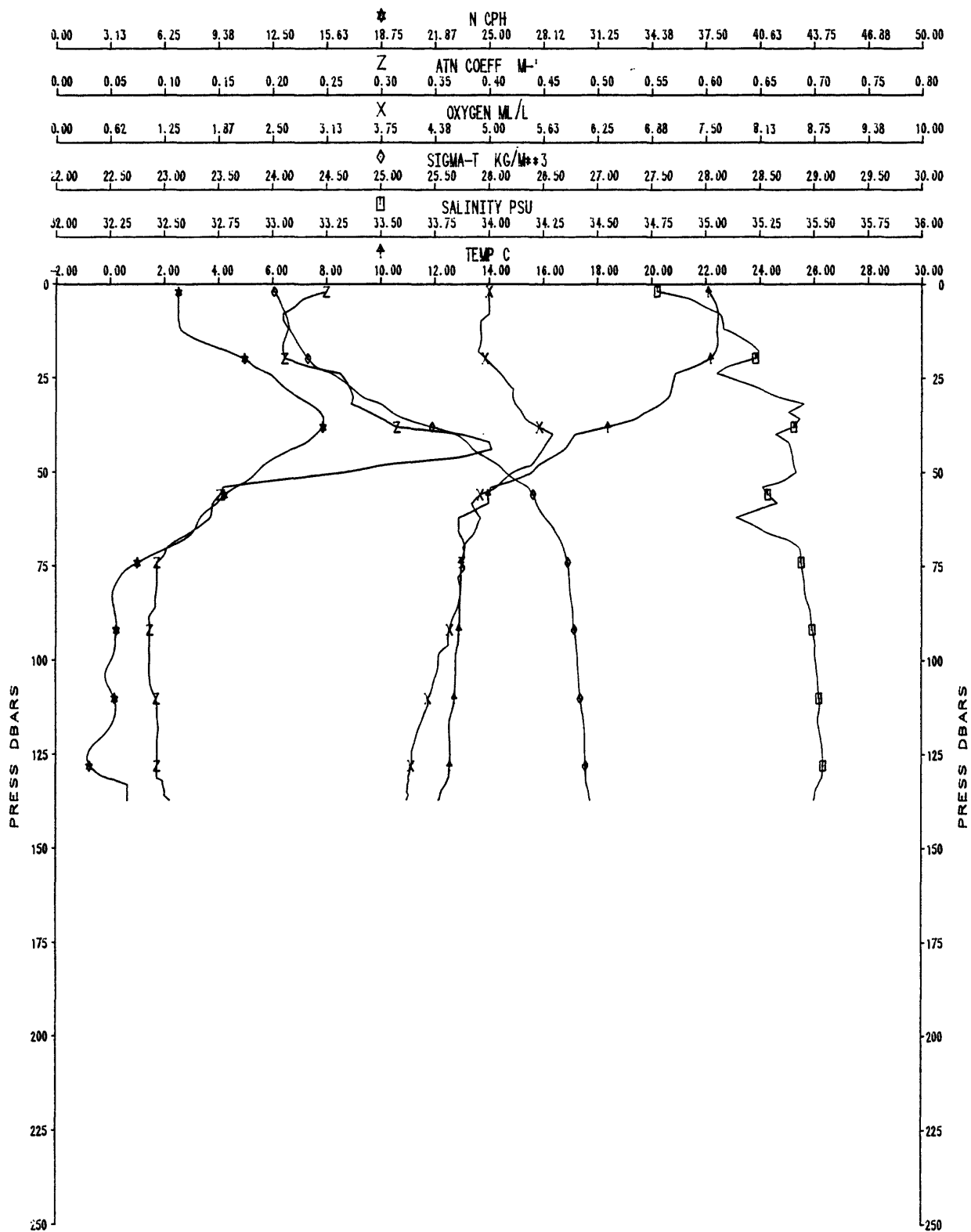


0C122

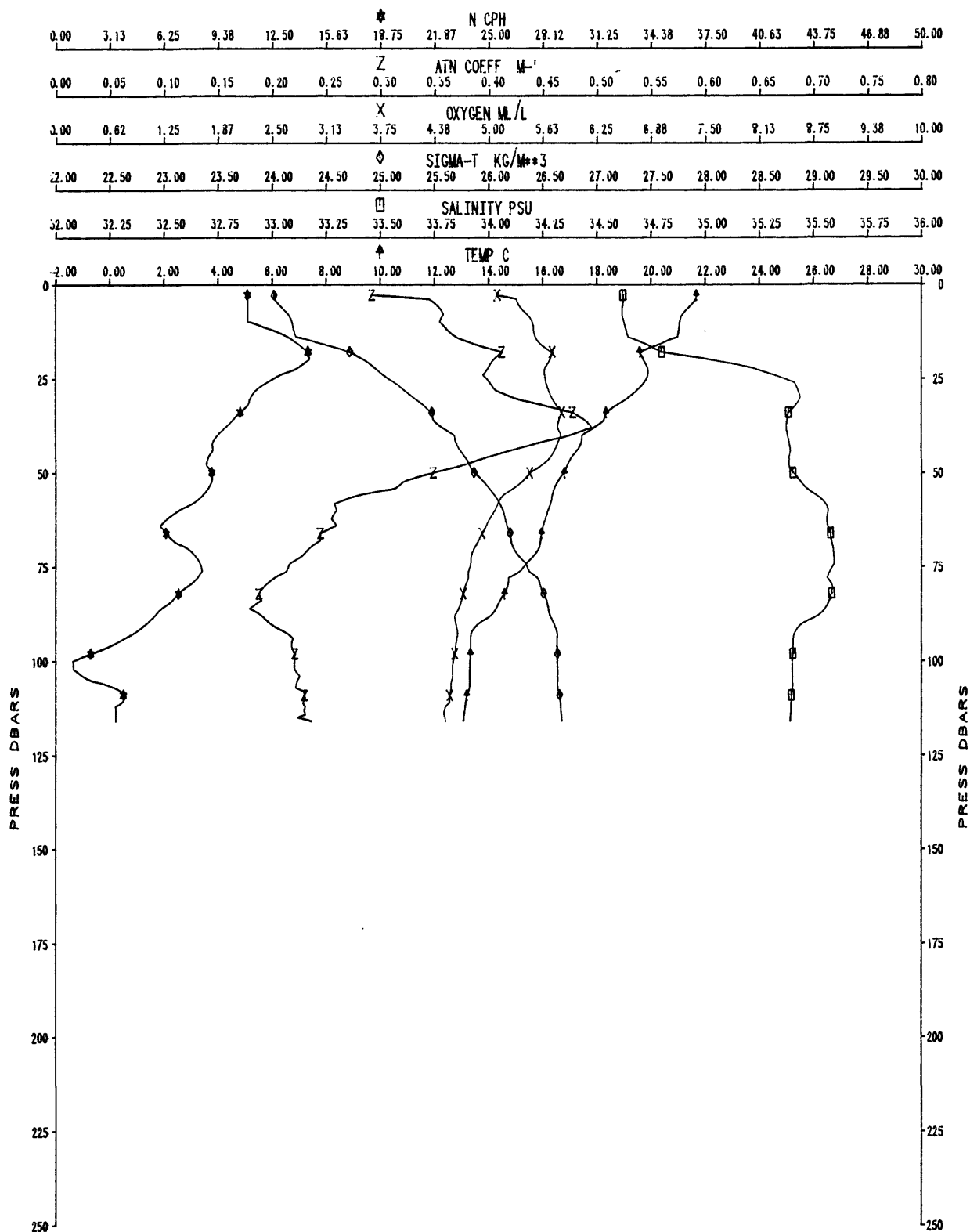
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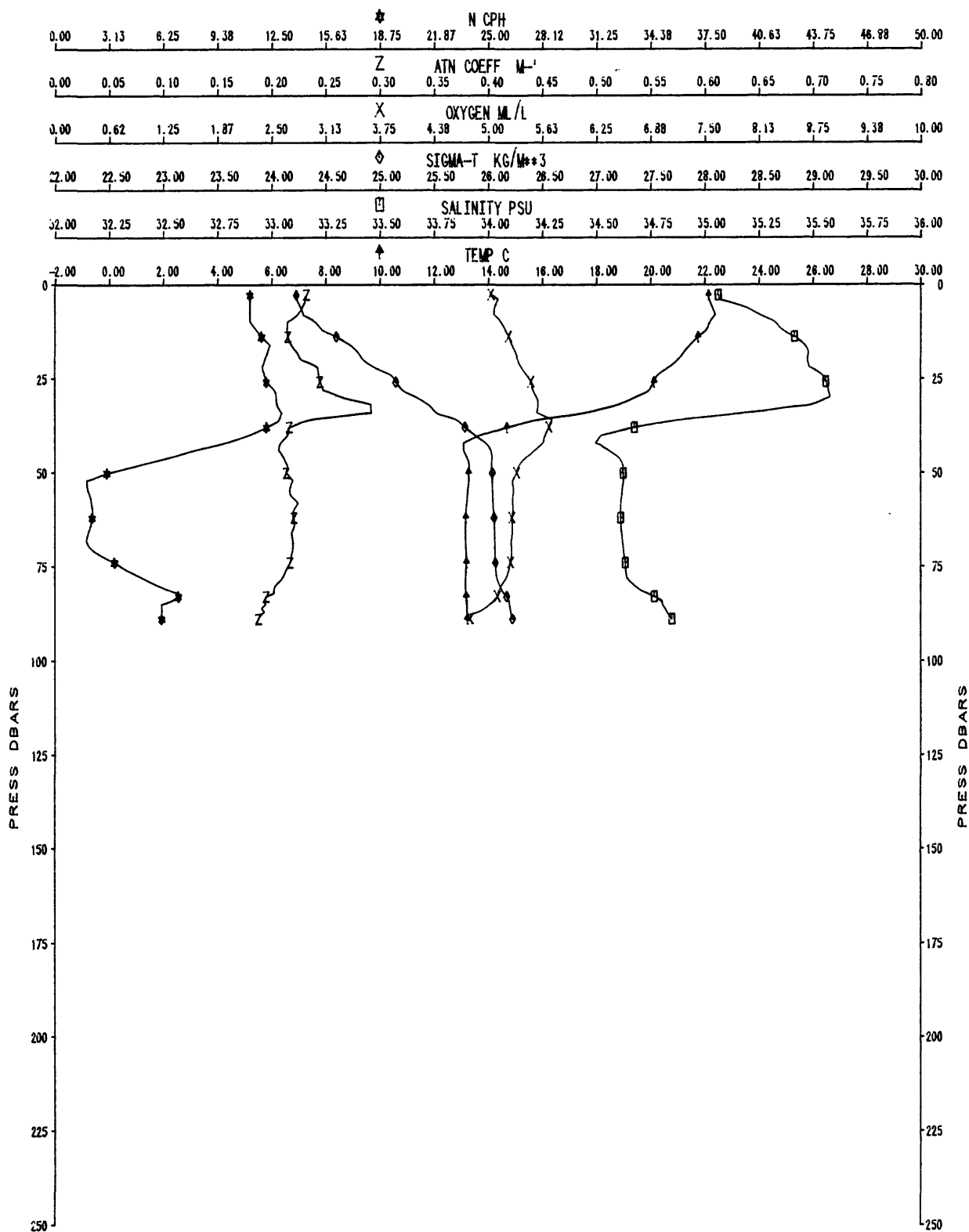
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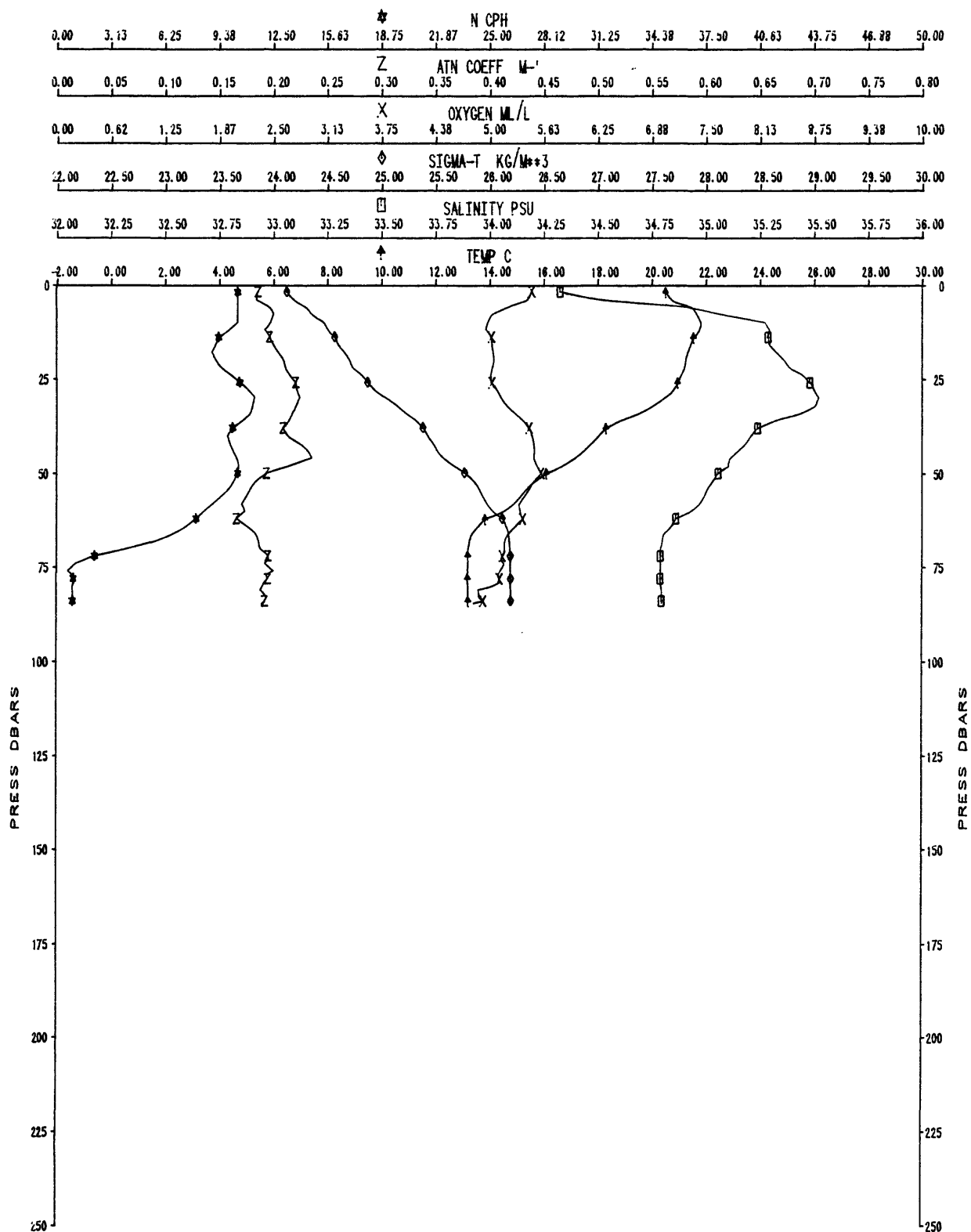
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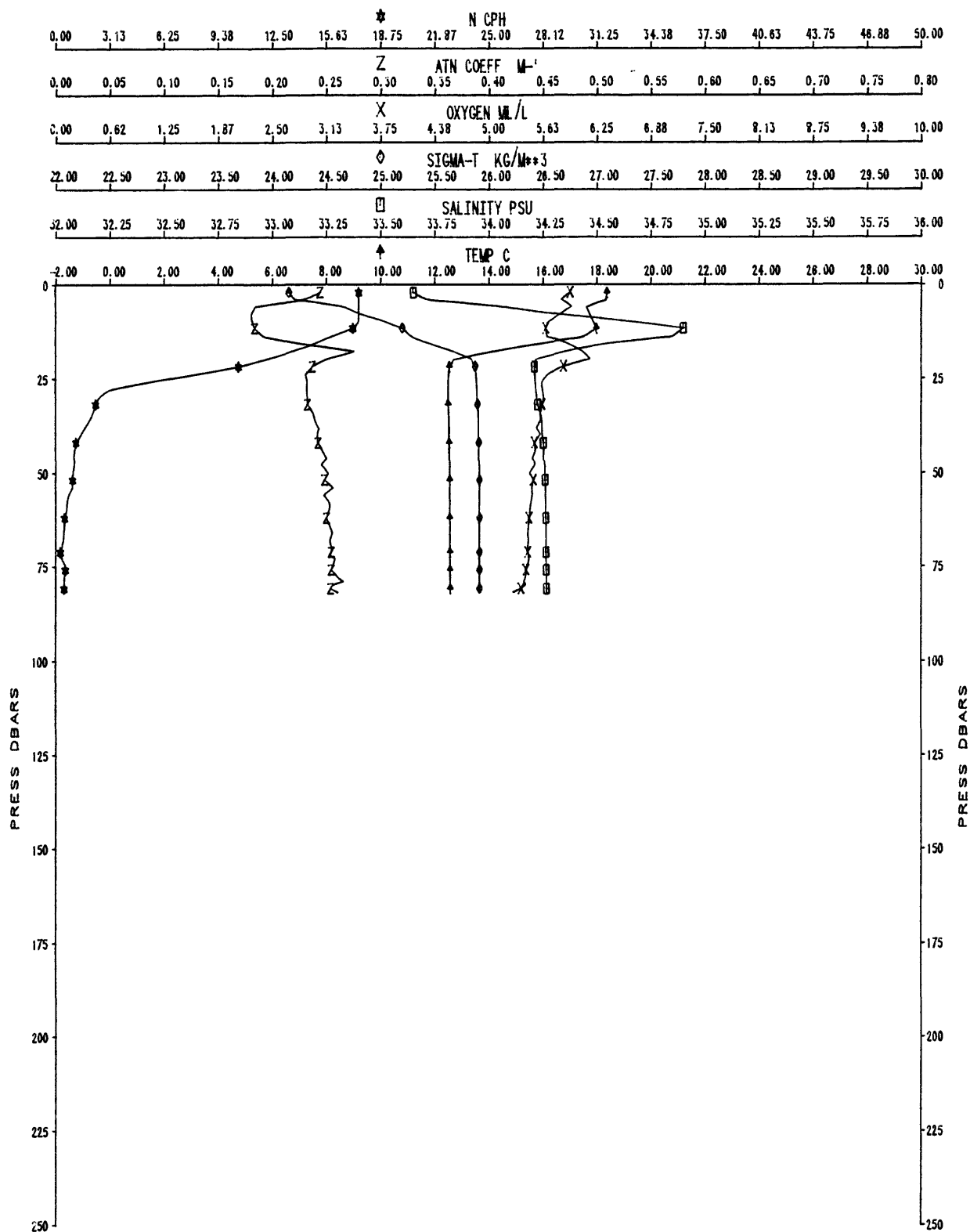
0C122U CAST #56



0C122A CAST #57

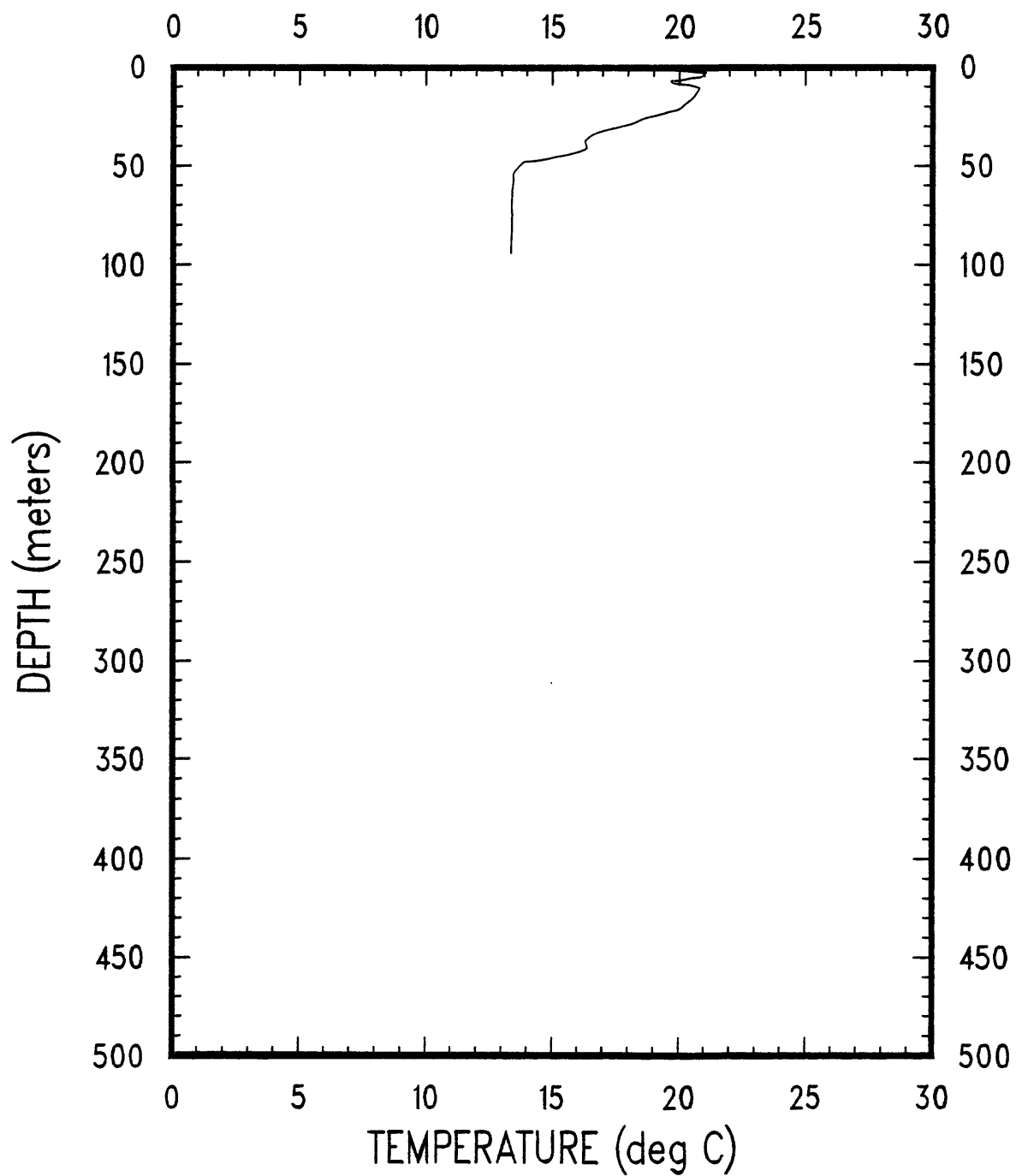


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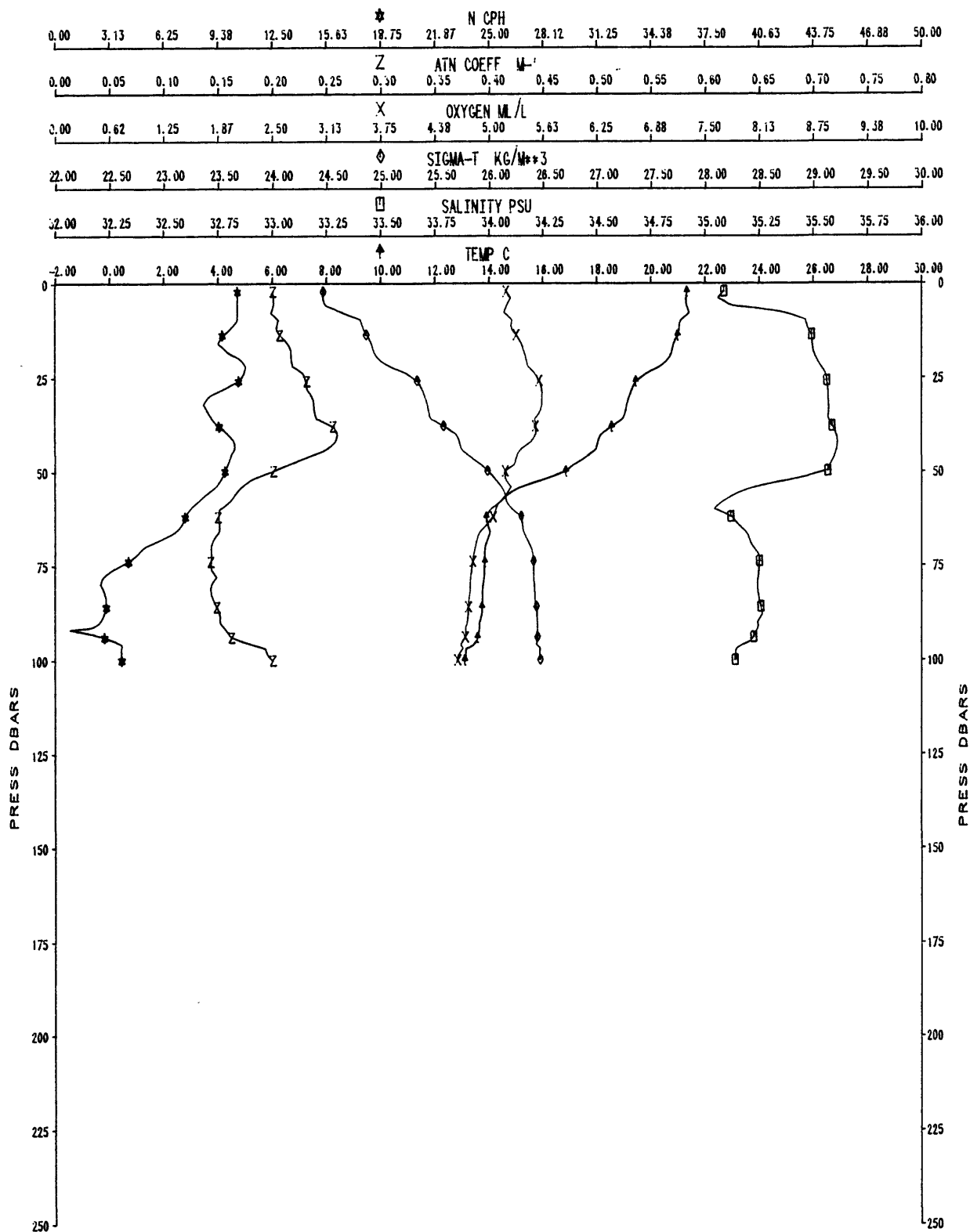


0C122

XBT-59

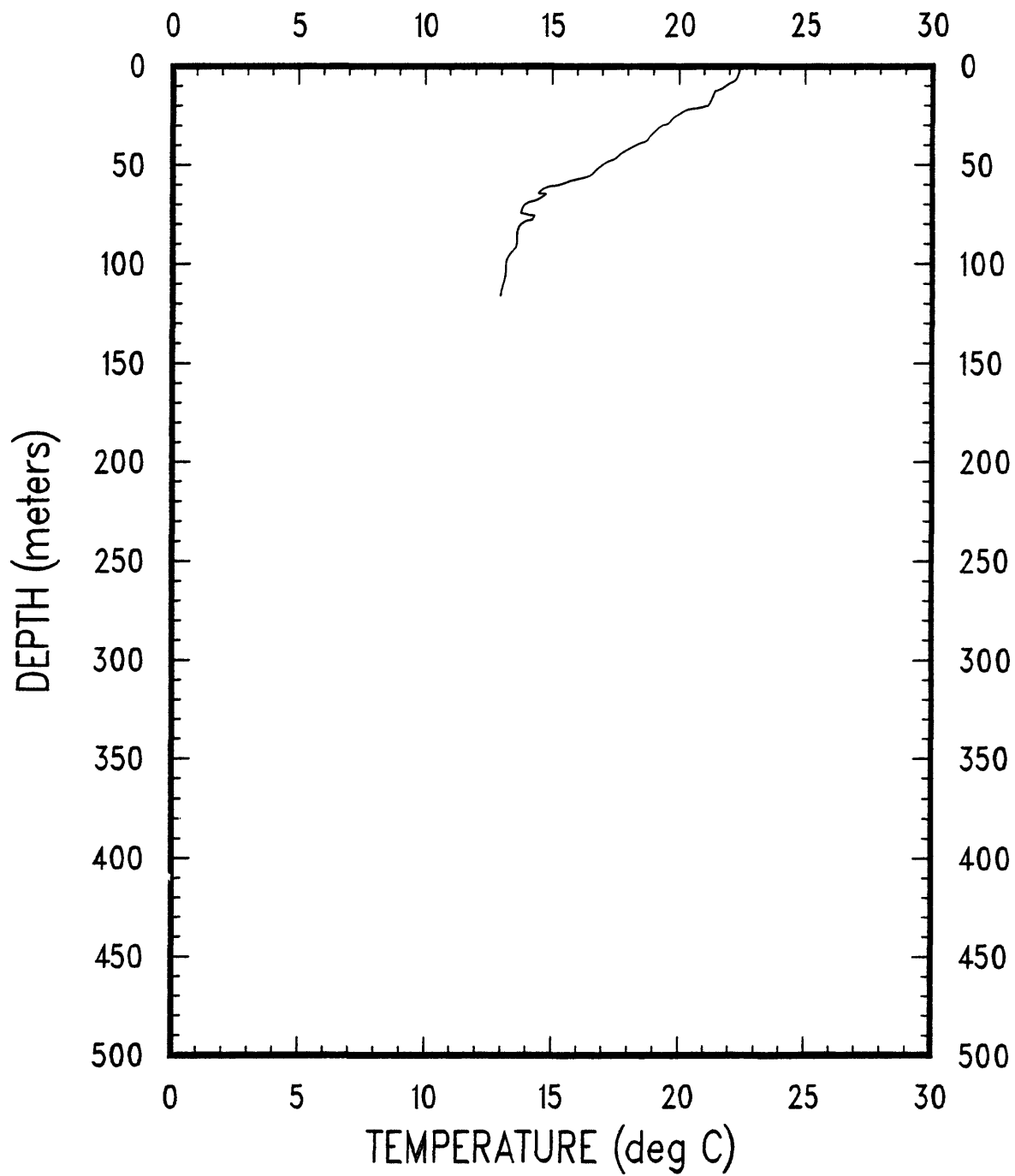


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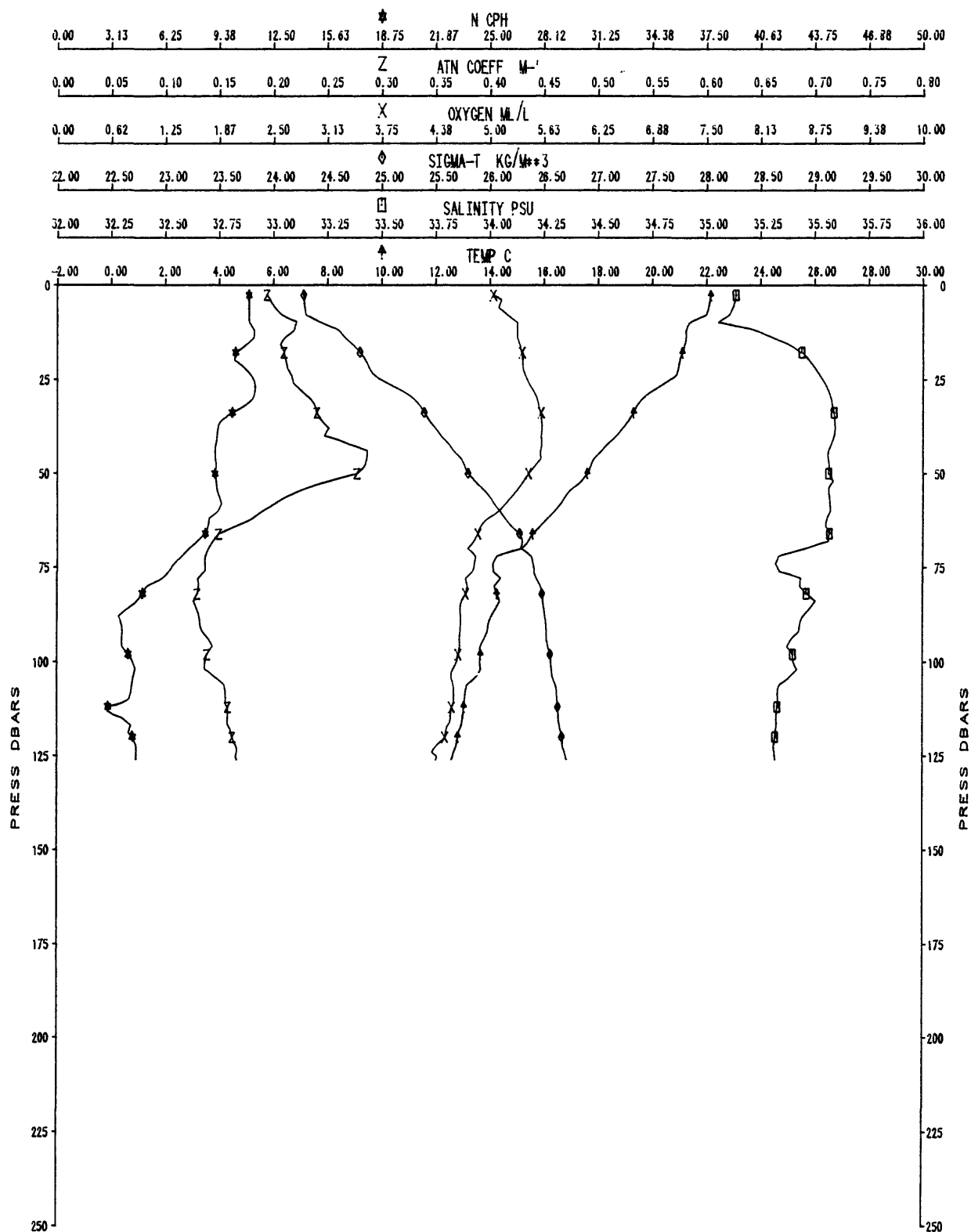


OC122

XBT-61

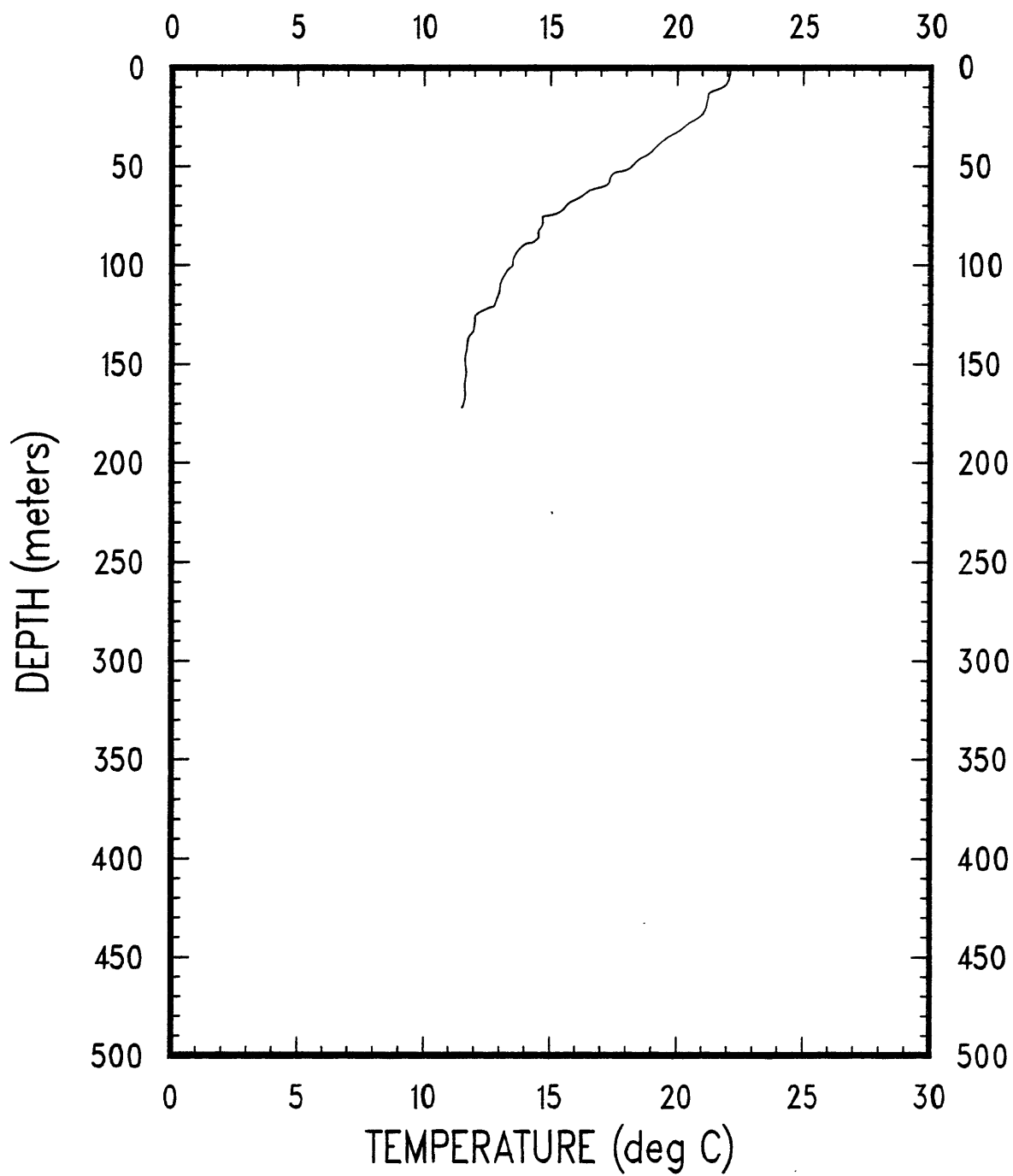


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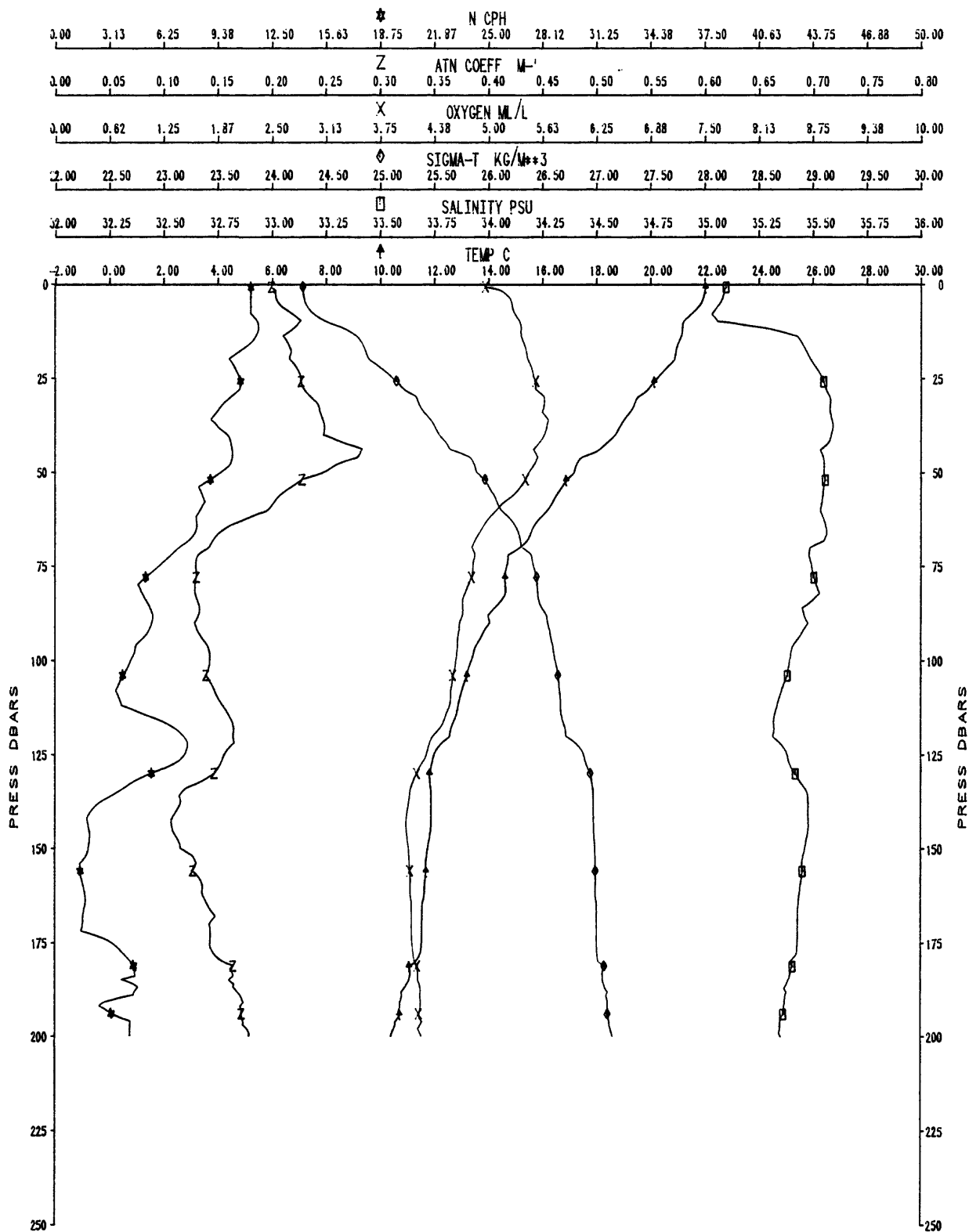


0C122

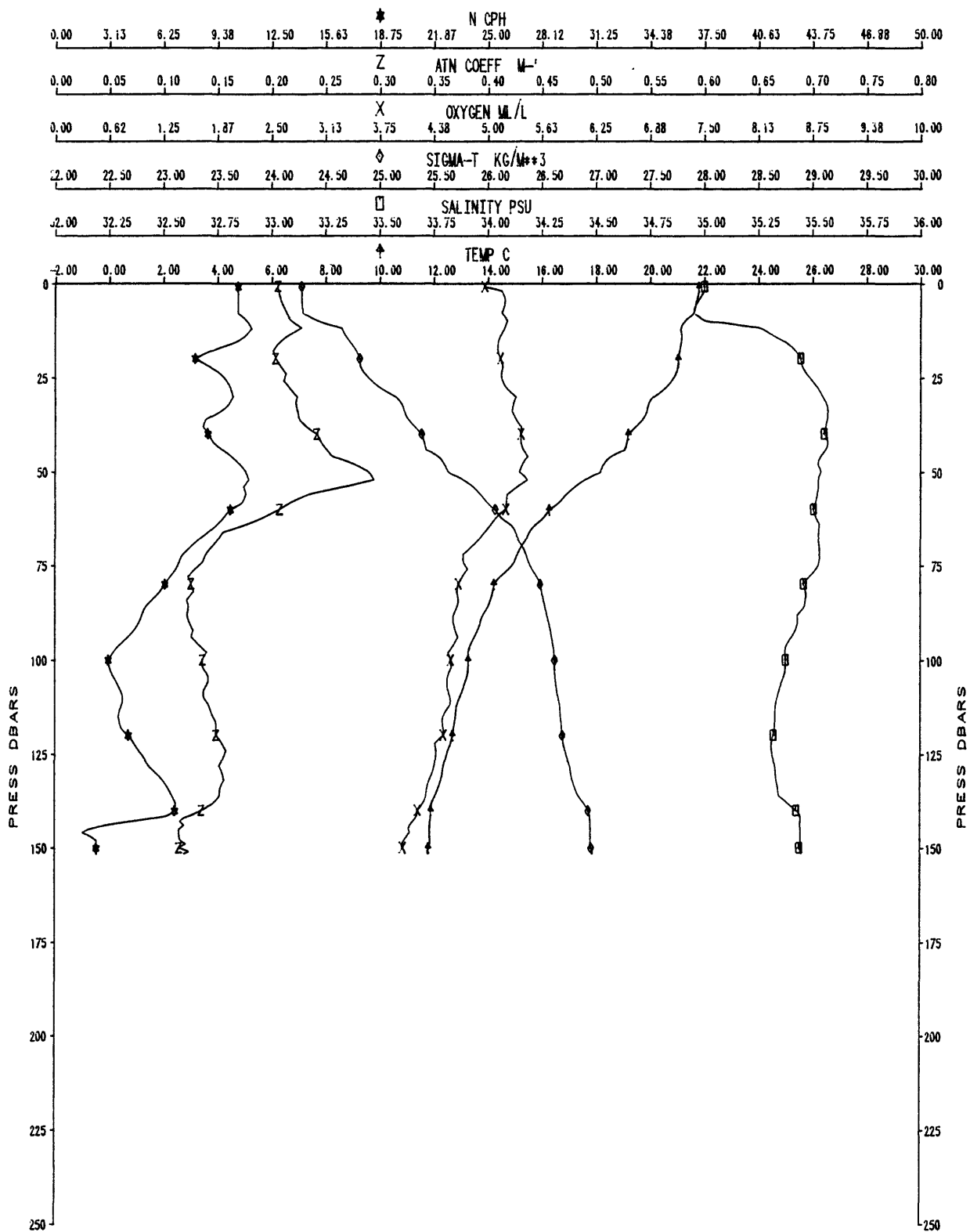
XBT-63



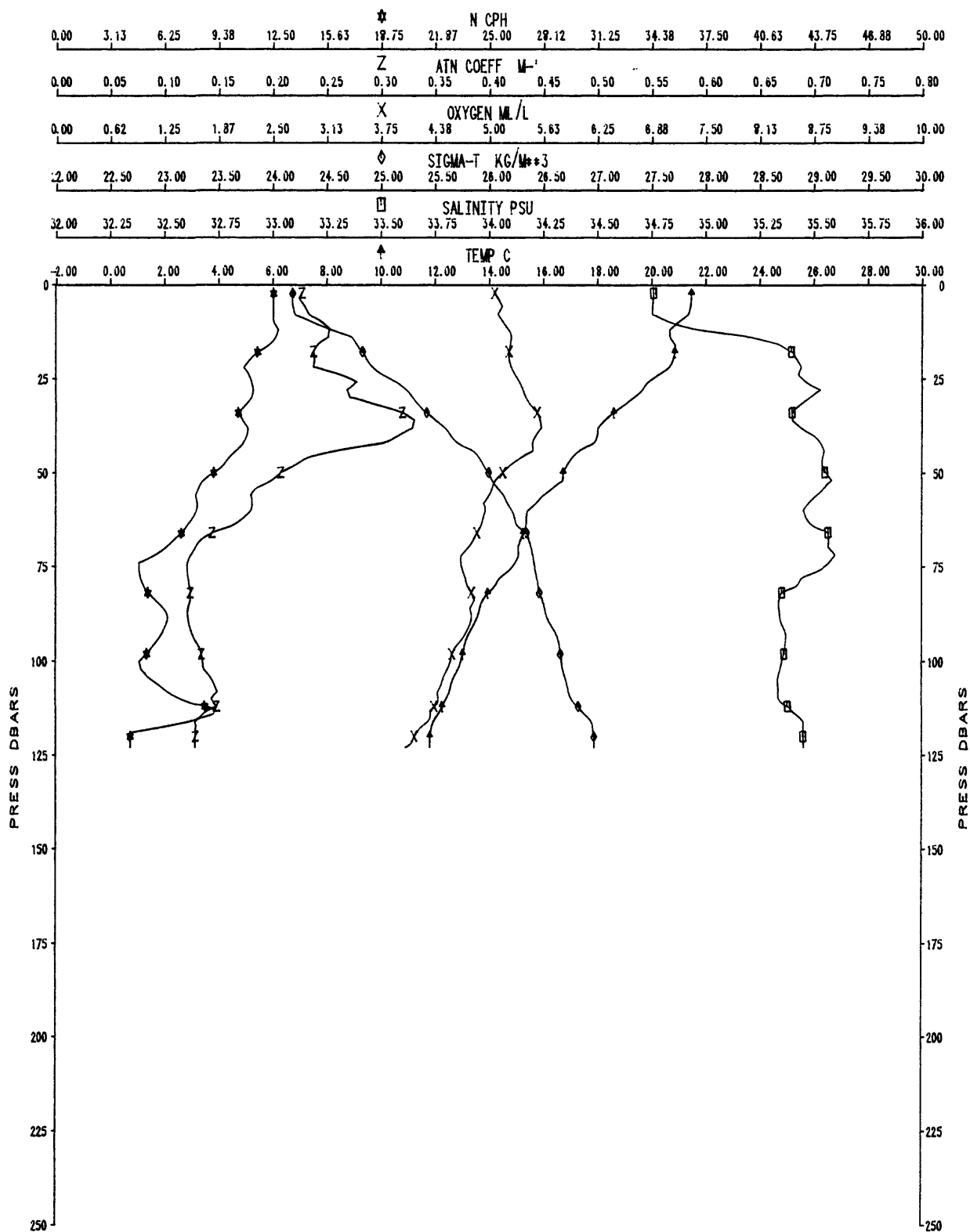
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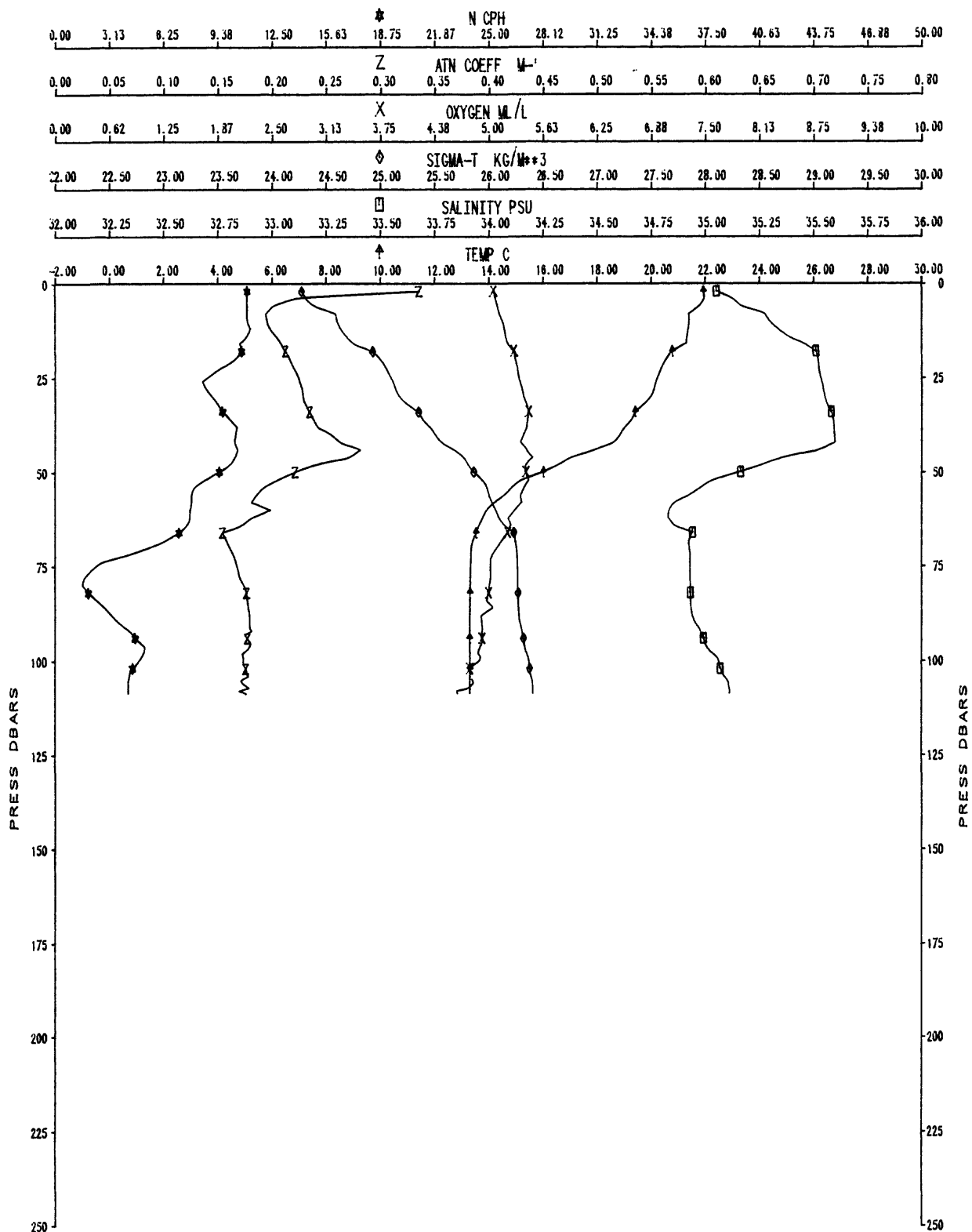
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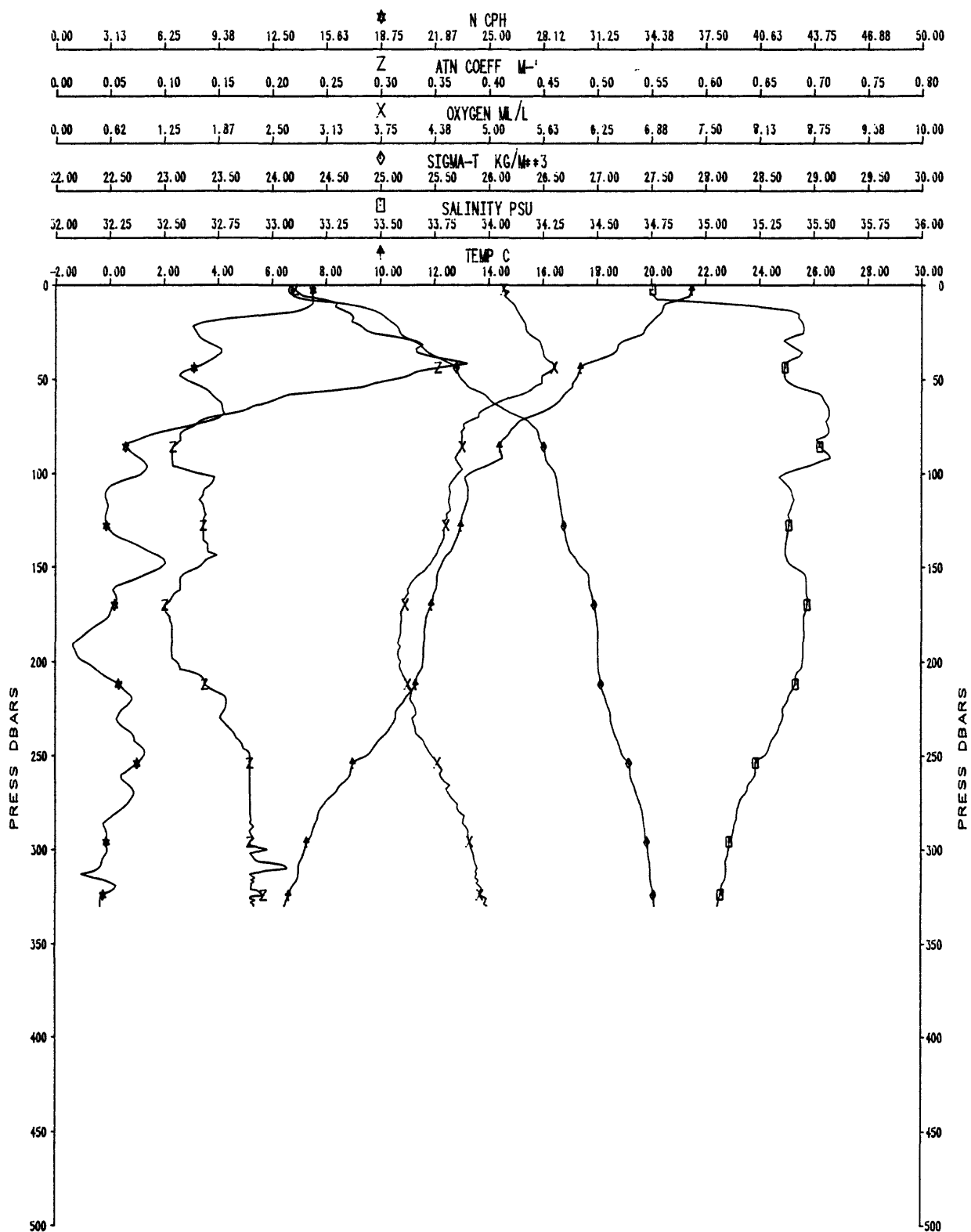
OC122A CAST #66



OC122A CAST #67

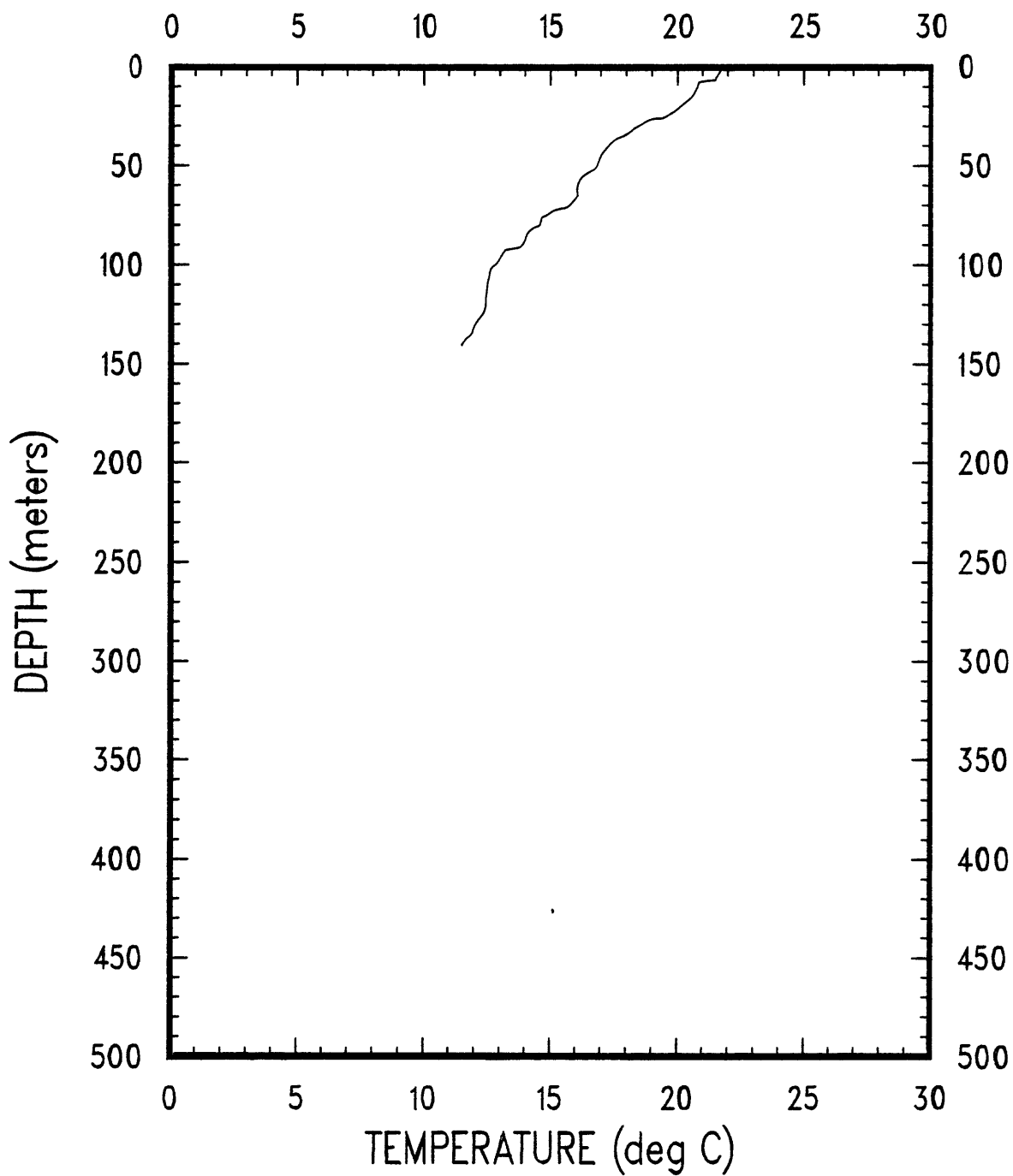


OC122A CAST #68

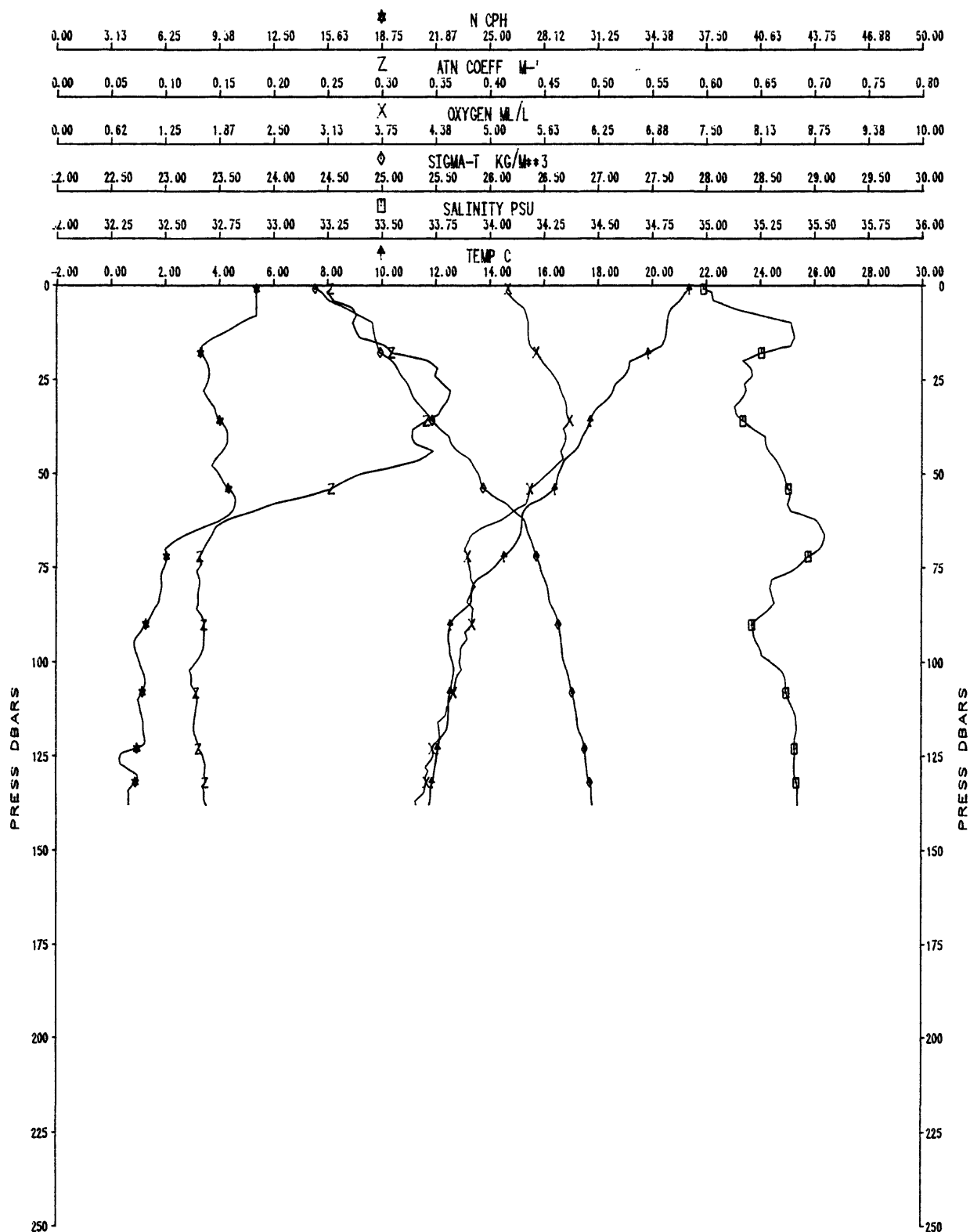


0C122

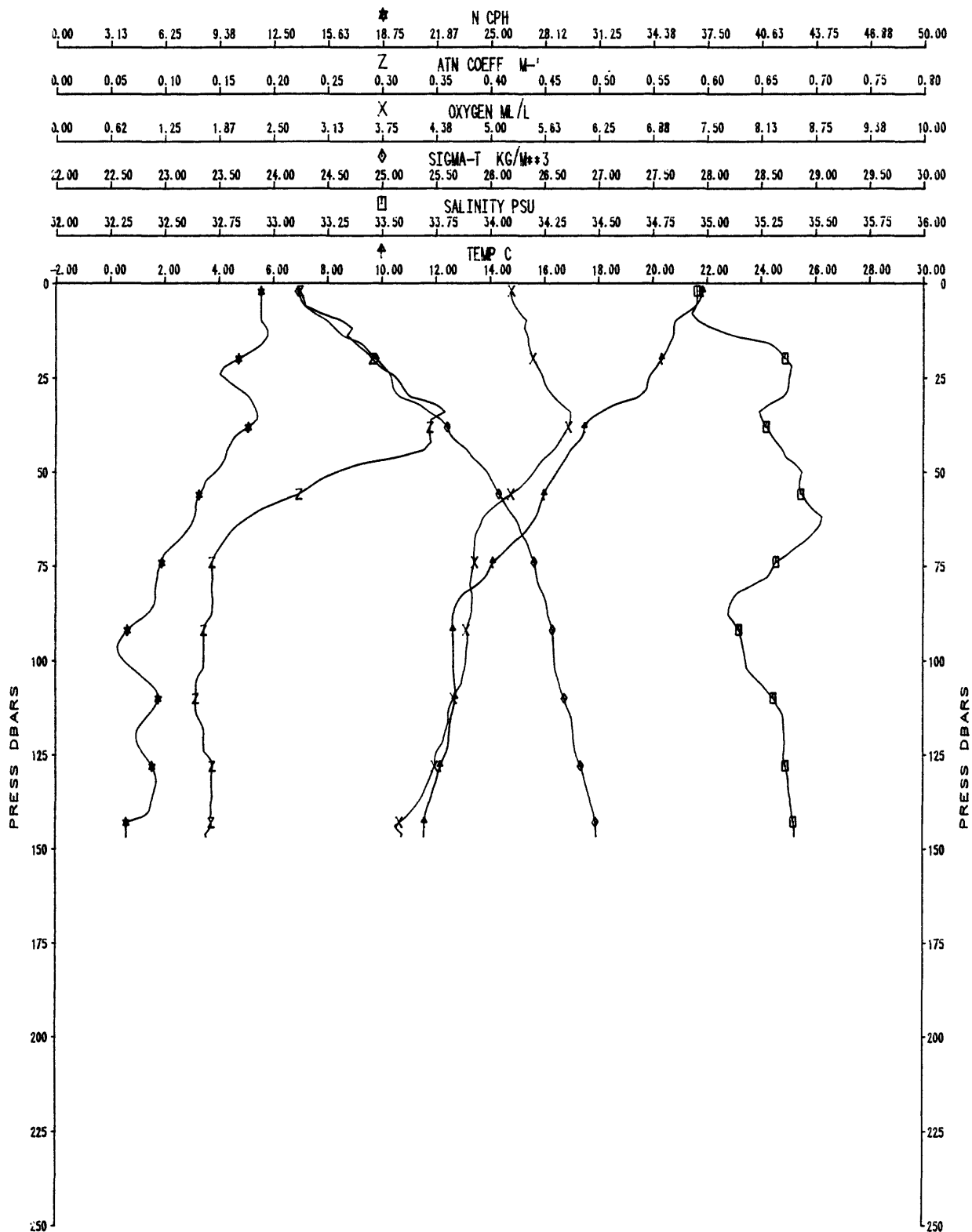
XBT-69



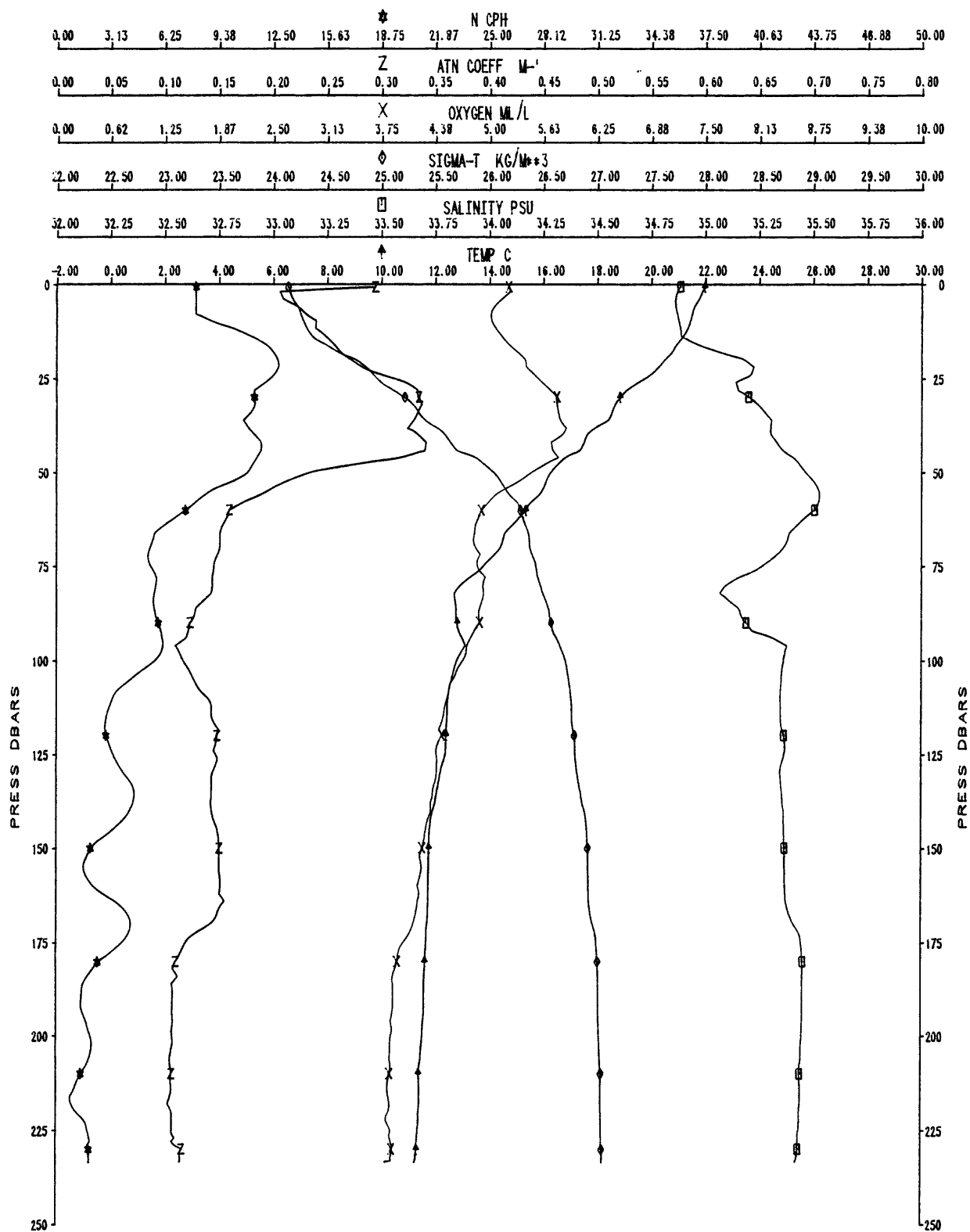
OC122A CAST #70



OC122U CAST #71

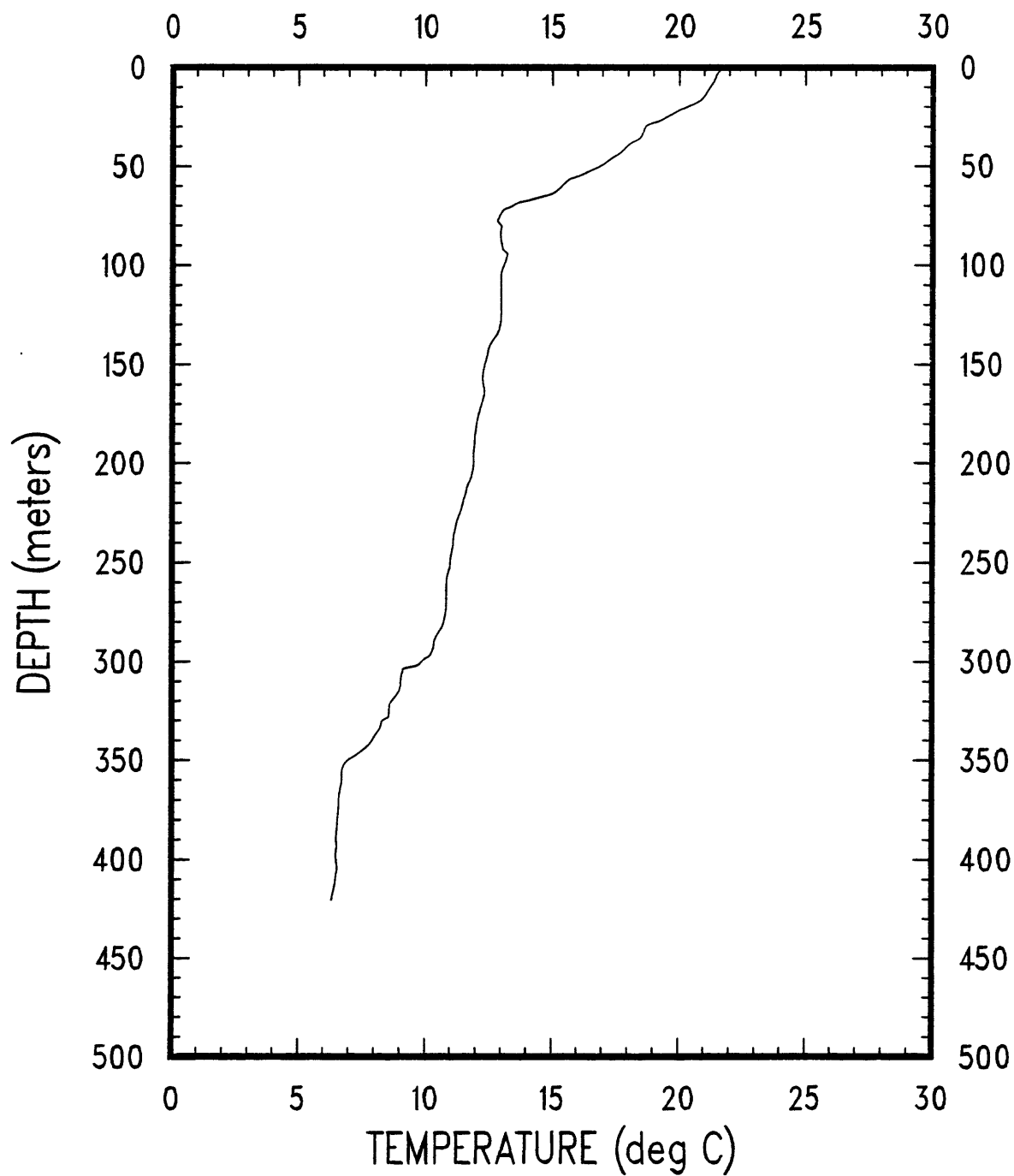


OC122A CAST #72

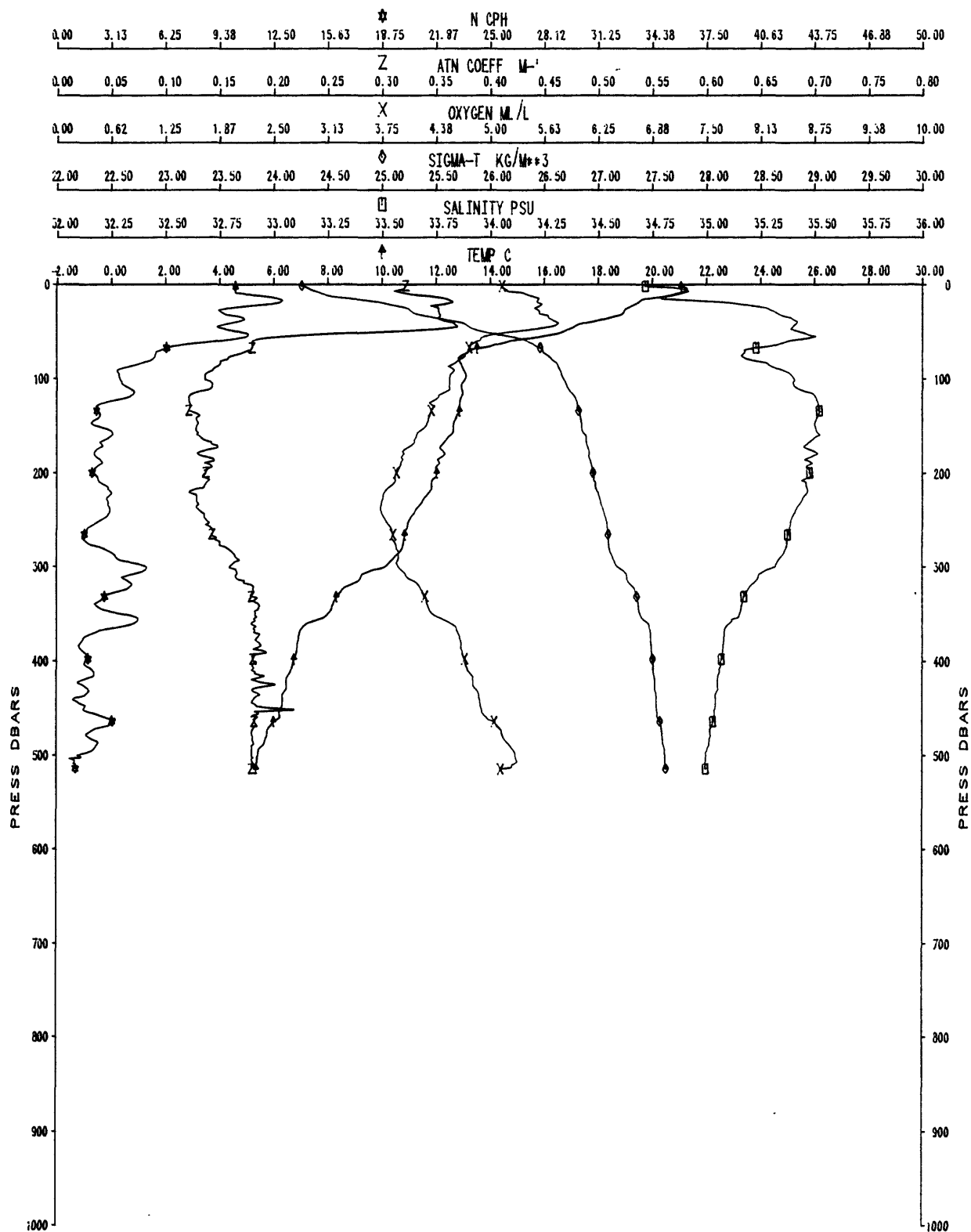


OC122

XBT-73

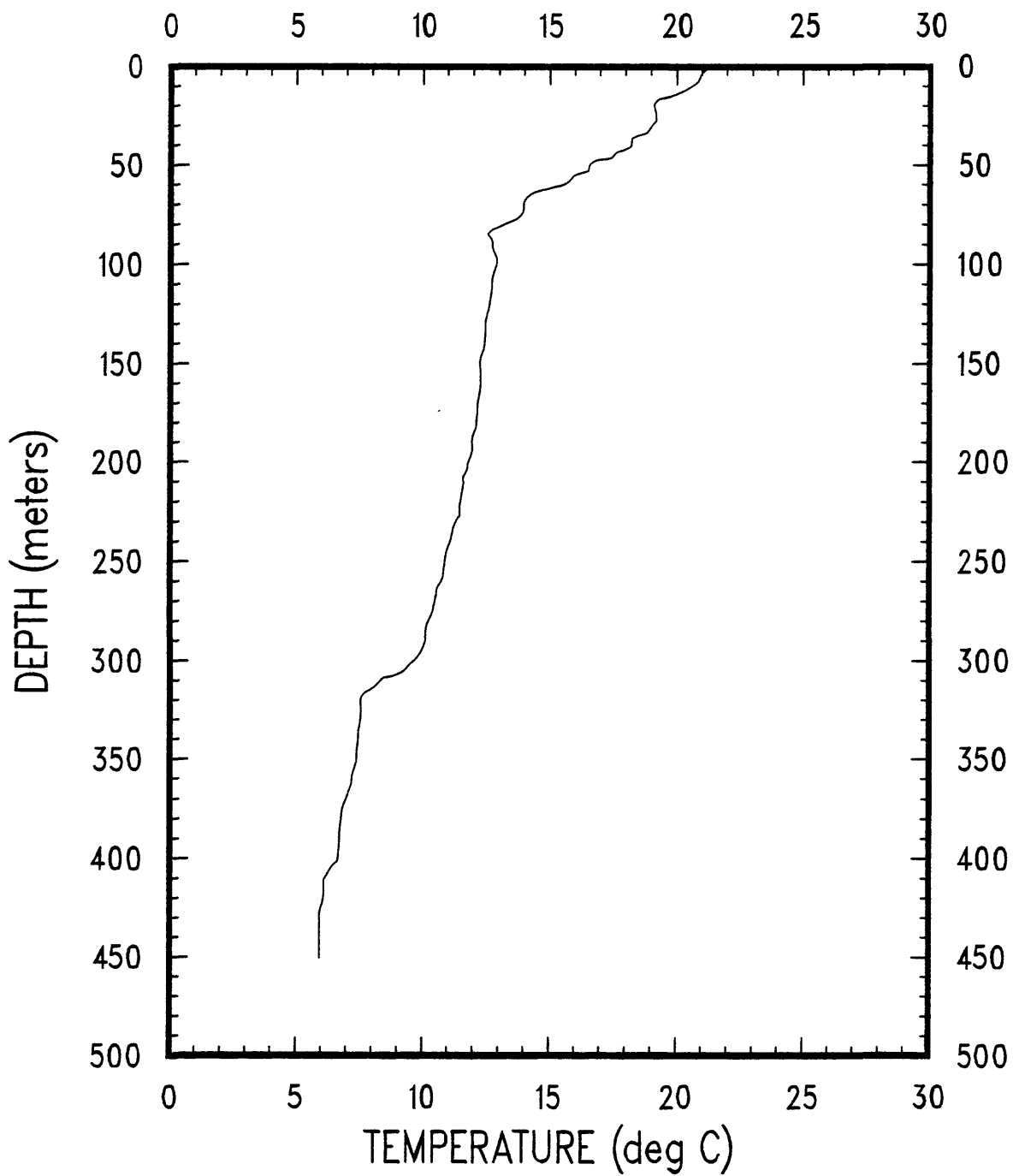


OC122B CAST #74

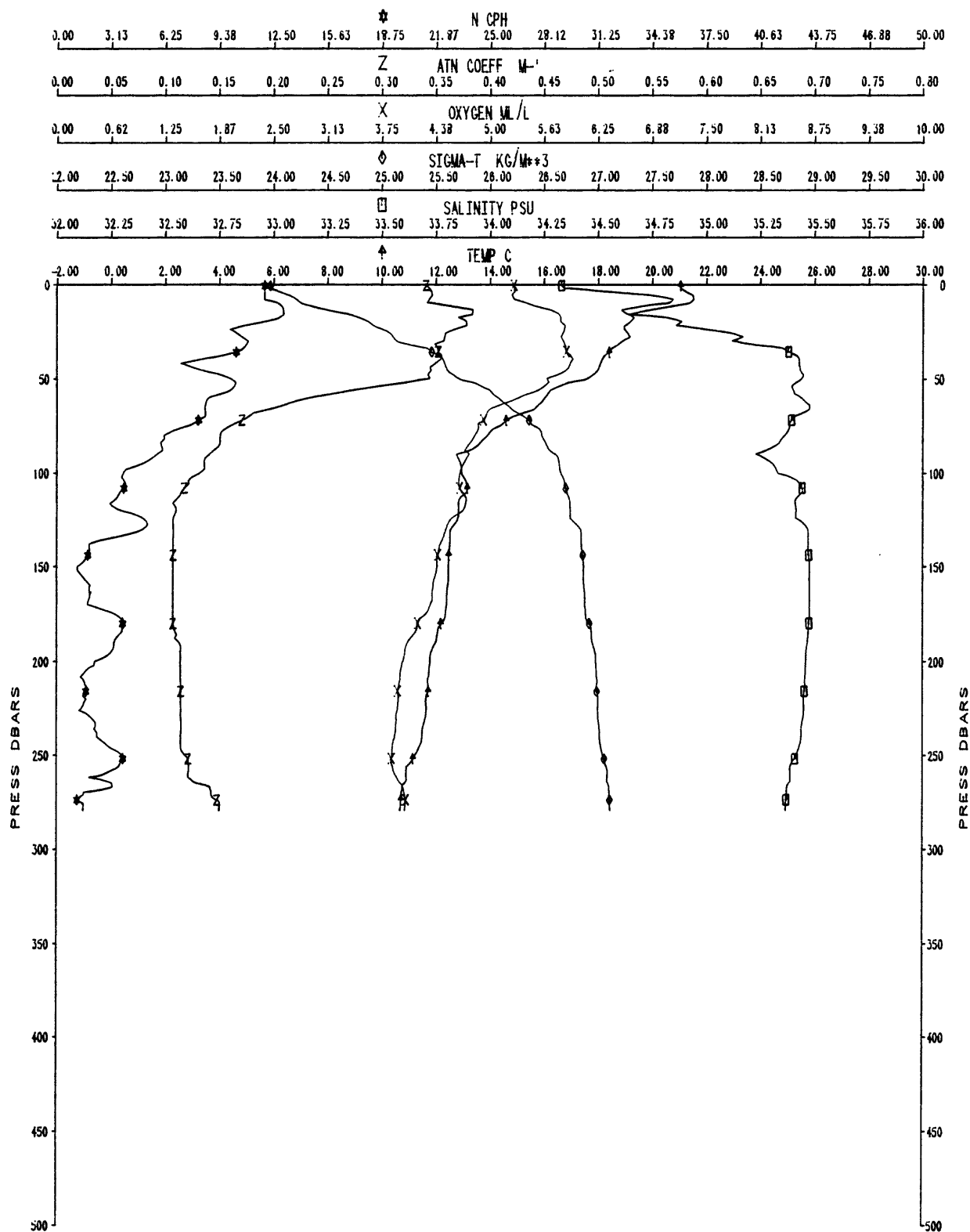


0C122

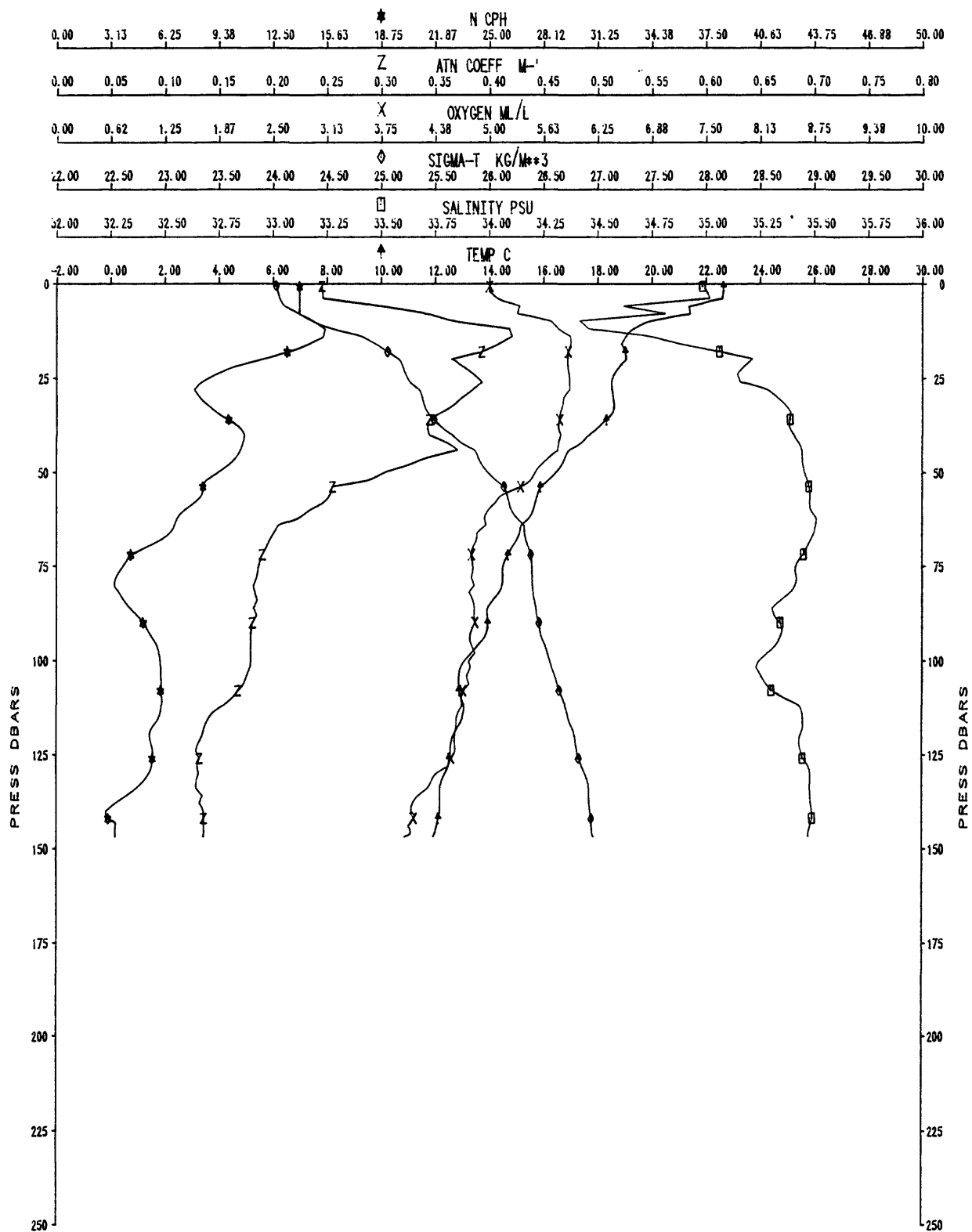
XBT-75



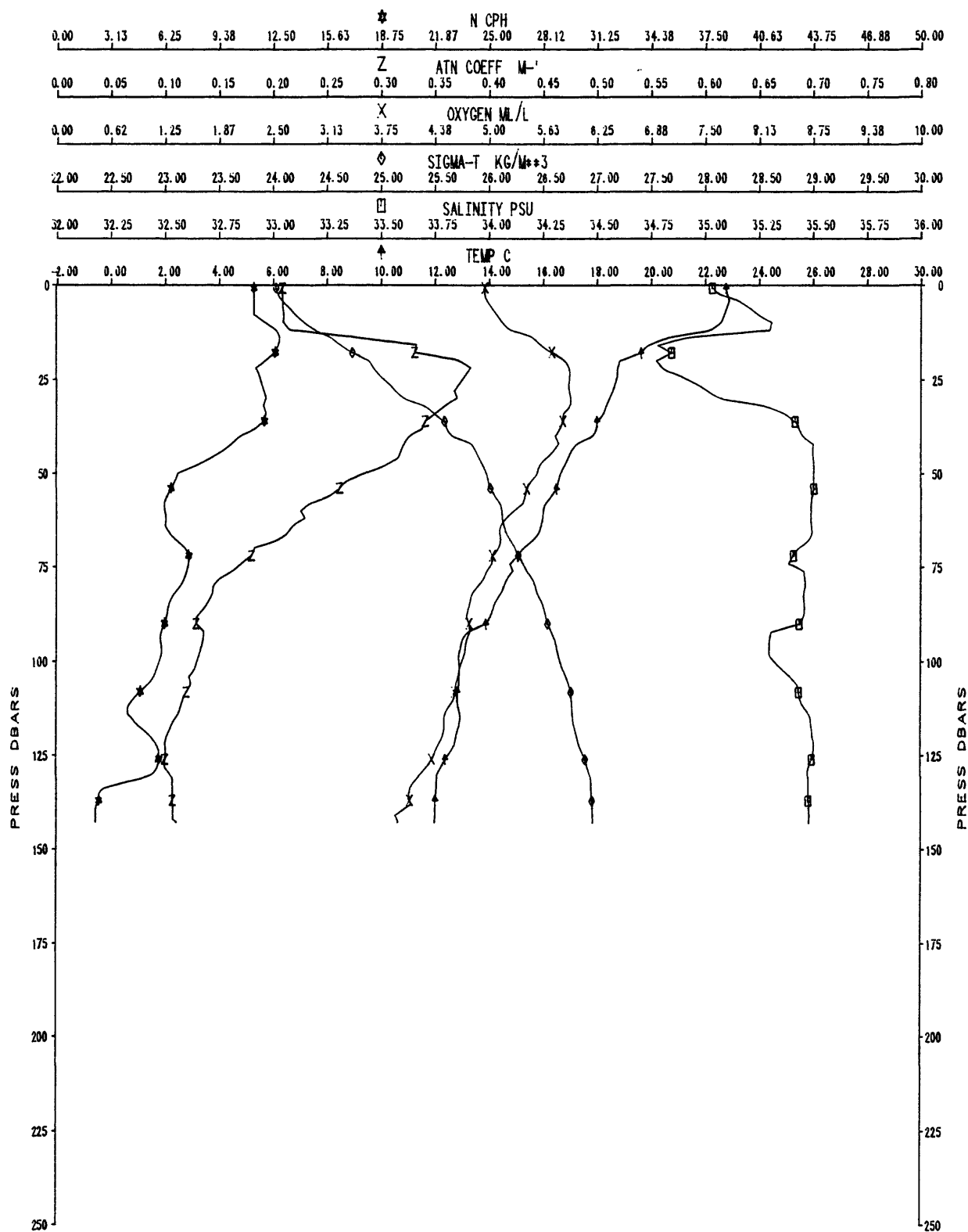
OC122U CAST #76



0C122A CAST #77

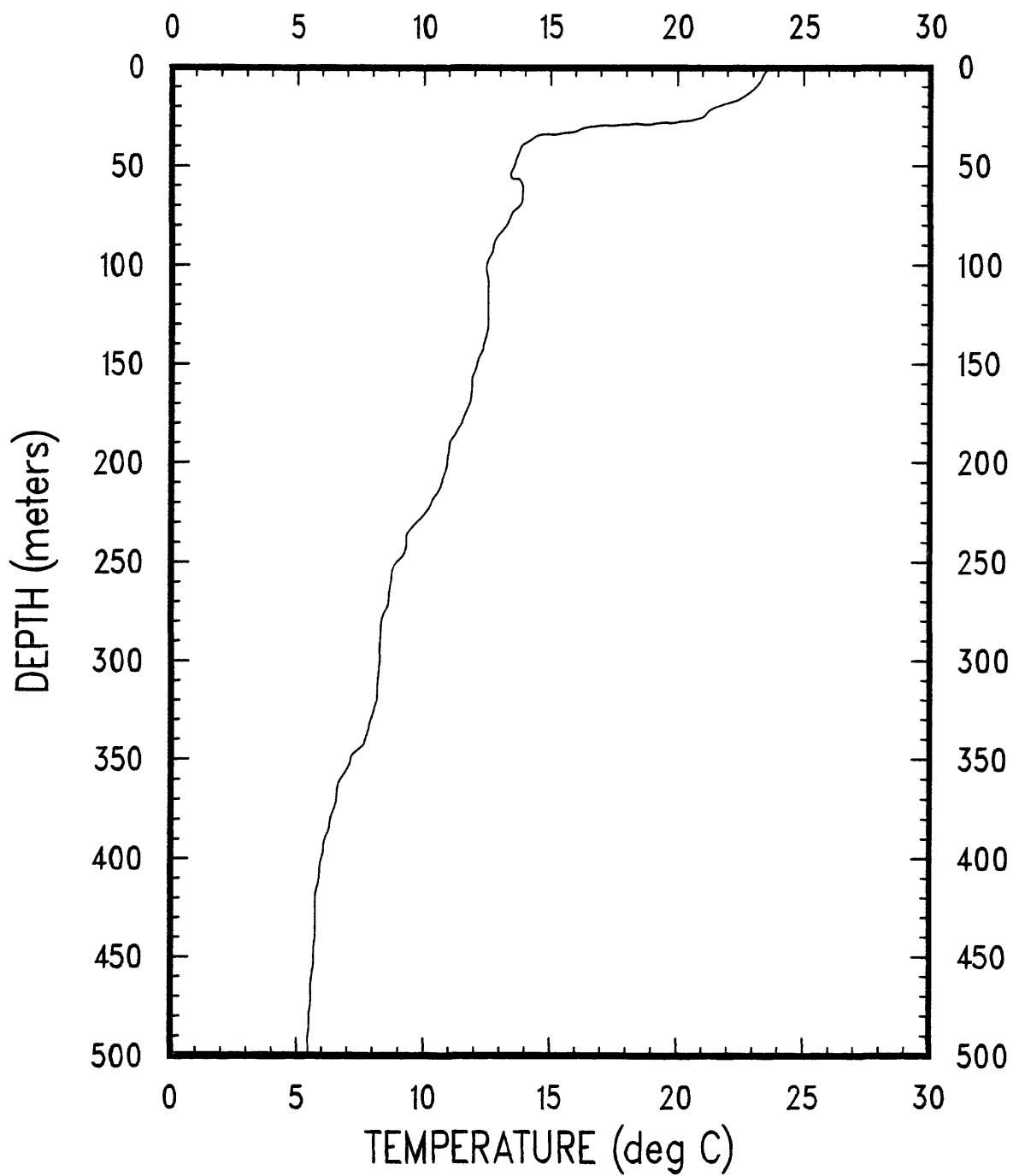


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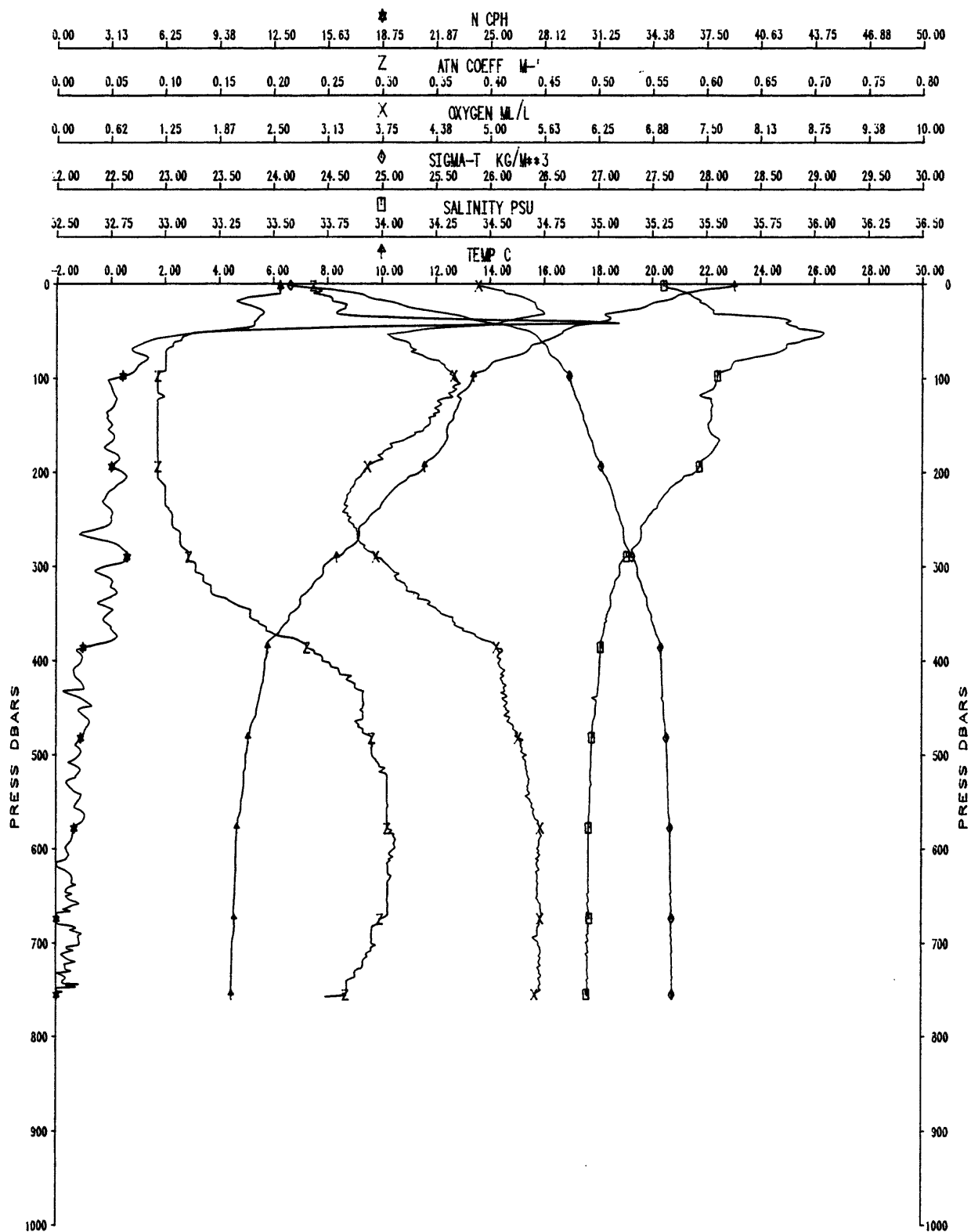


OC122

XBT-79

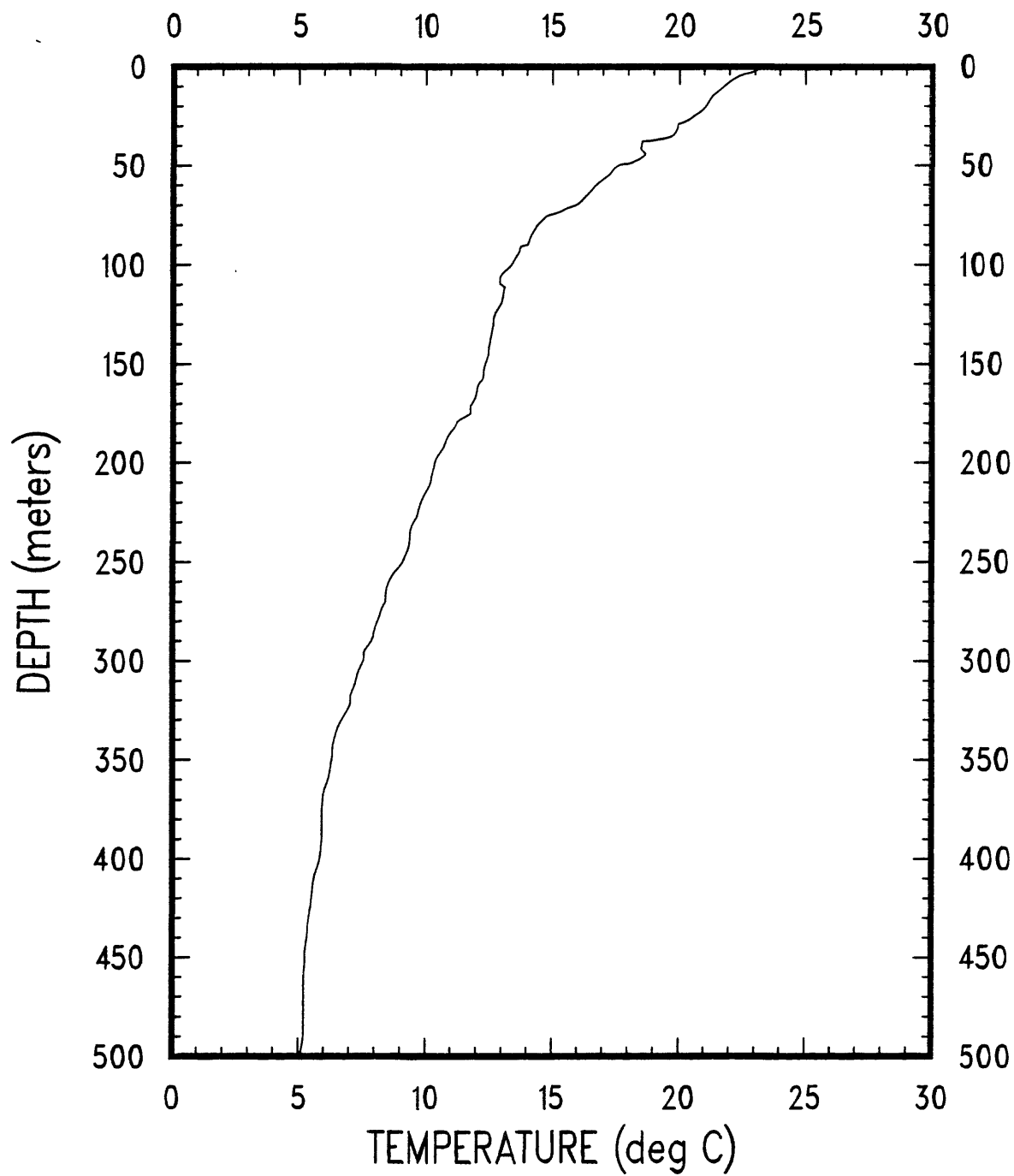


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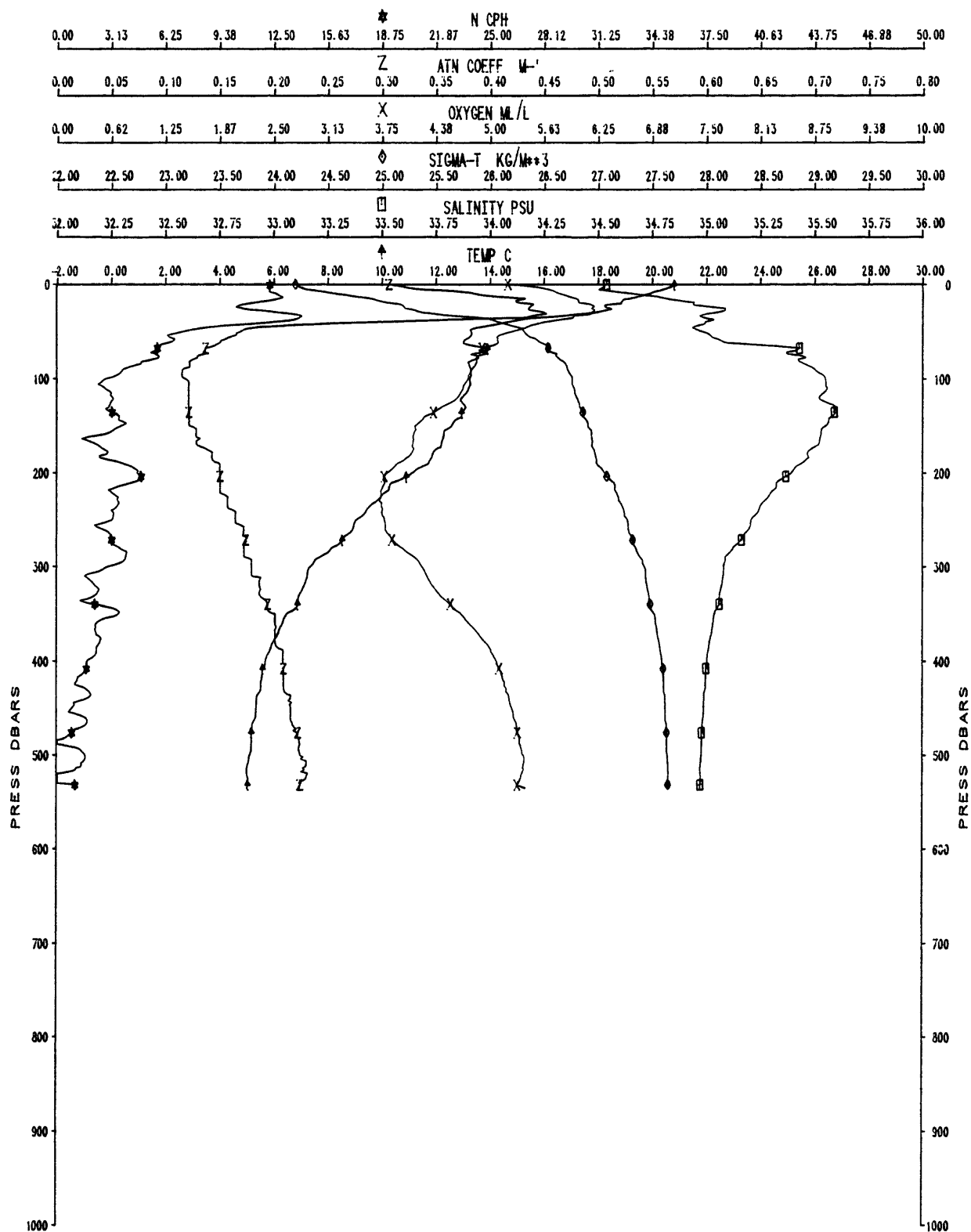


0C122

XBT-81

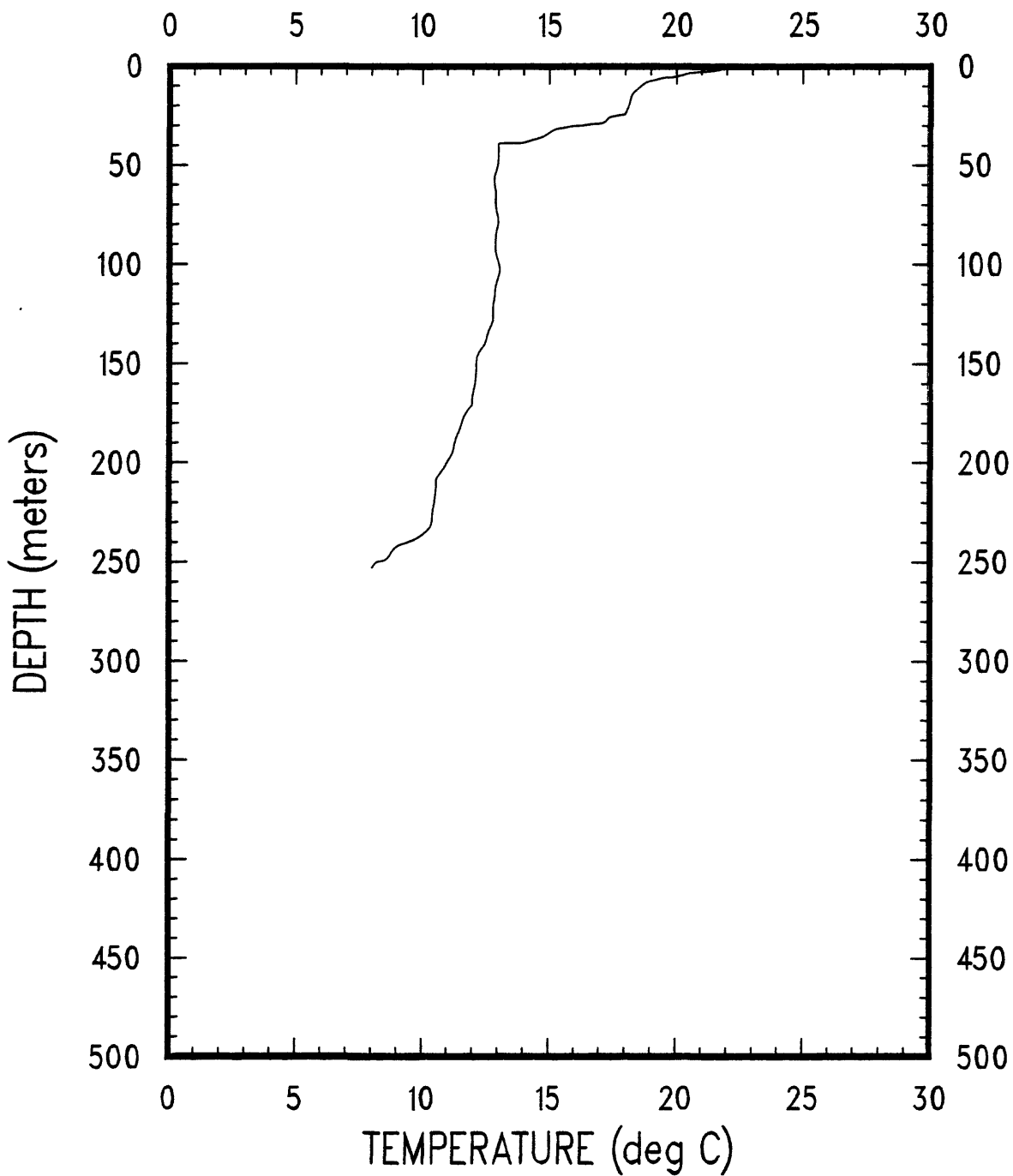


OC122U CAST #82

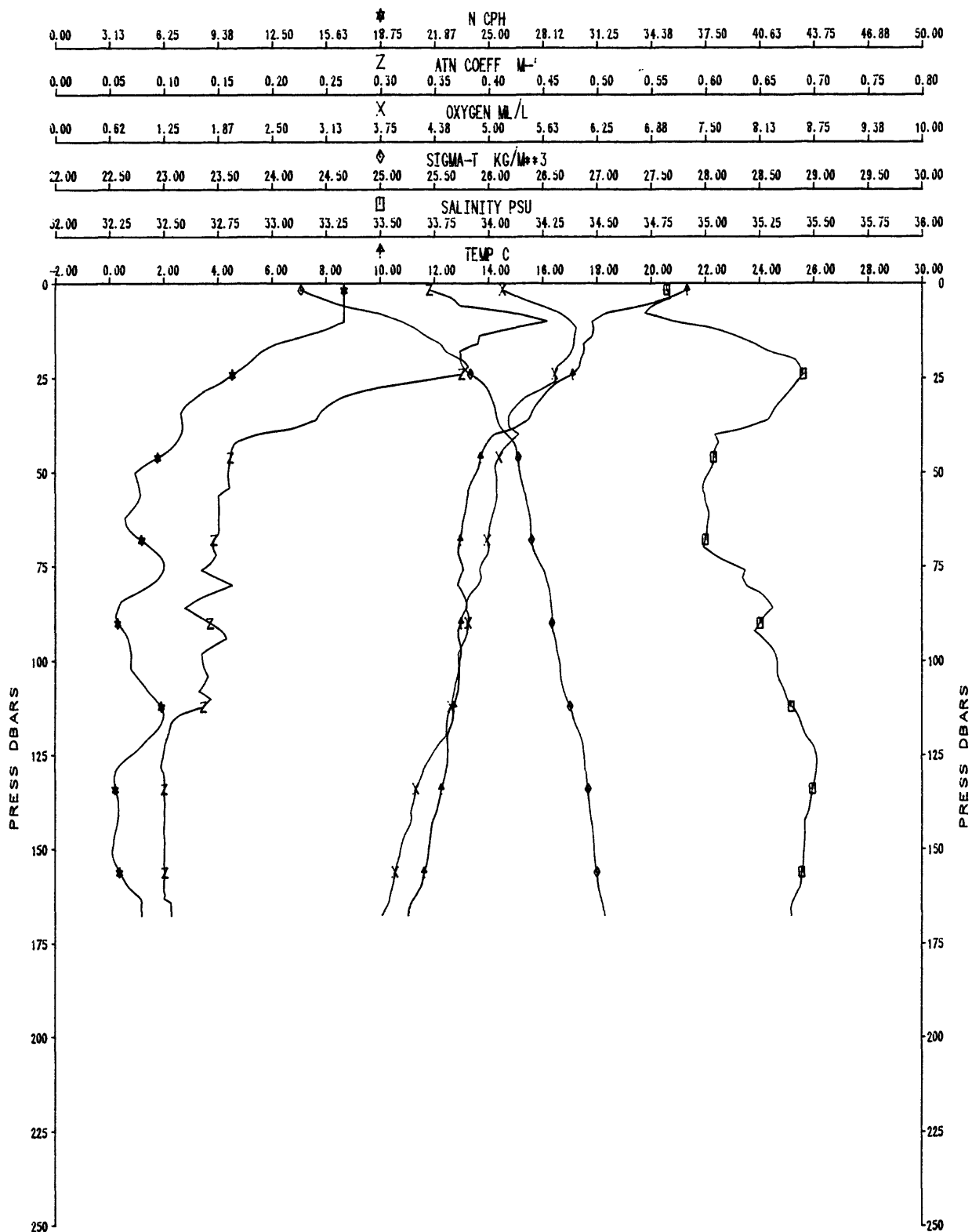


OC122

XBT-83

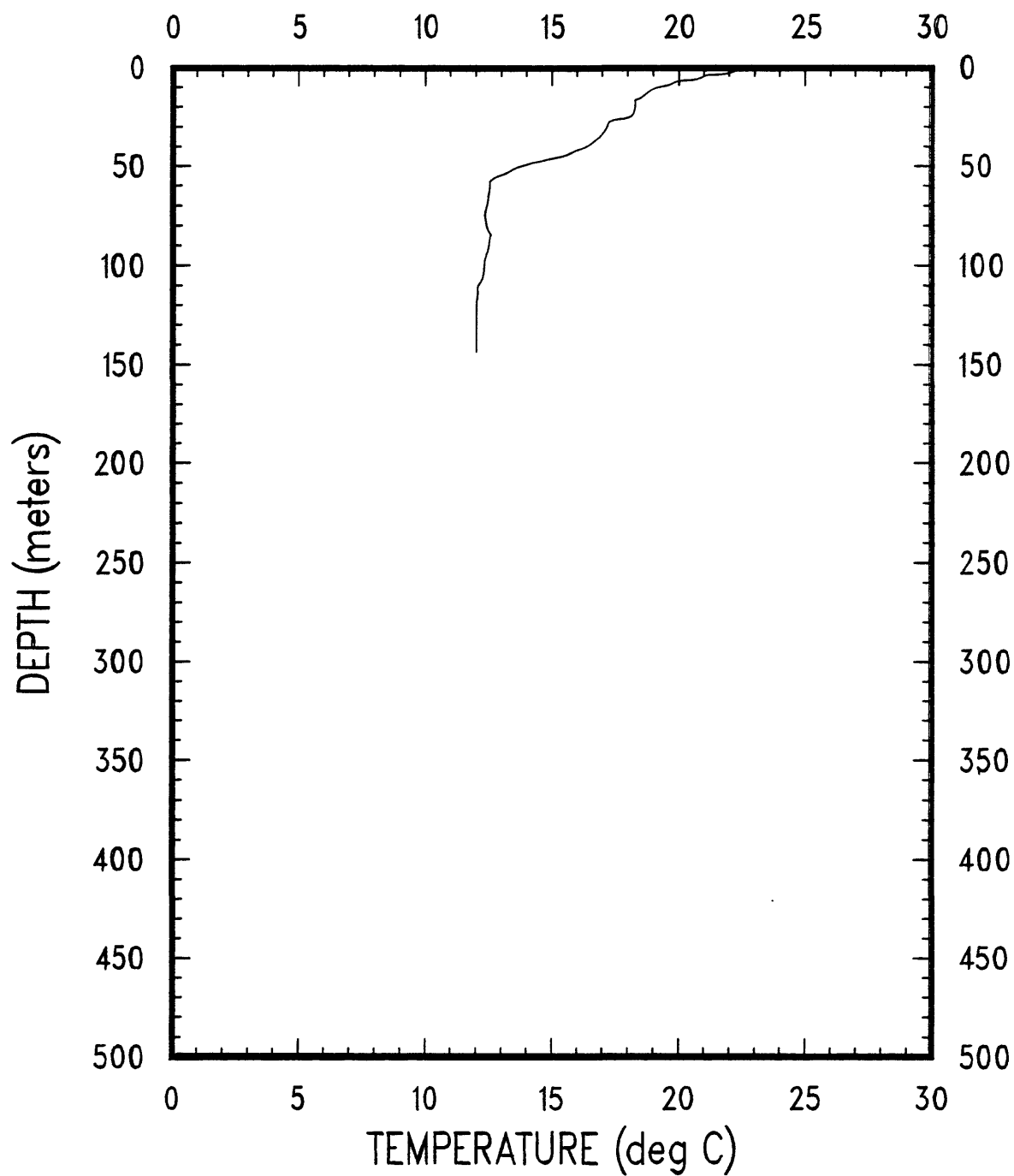


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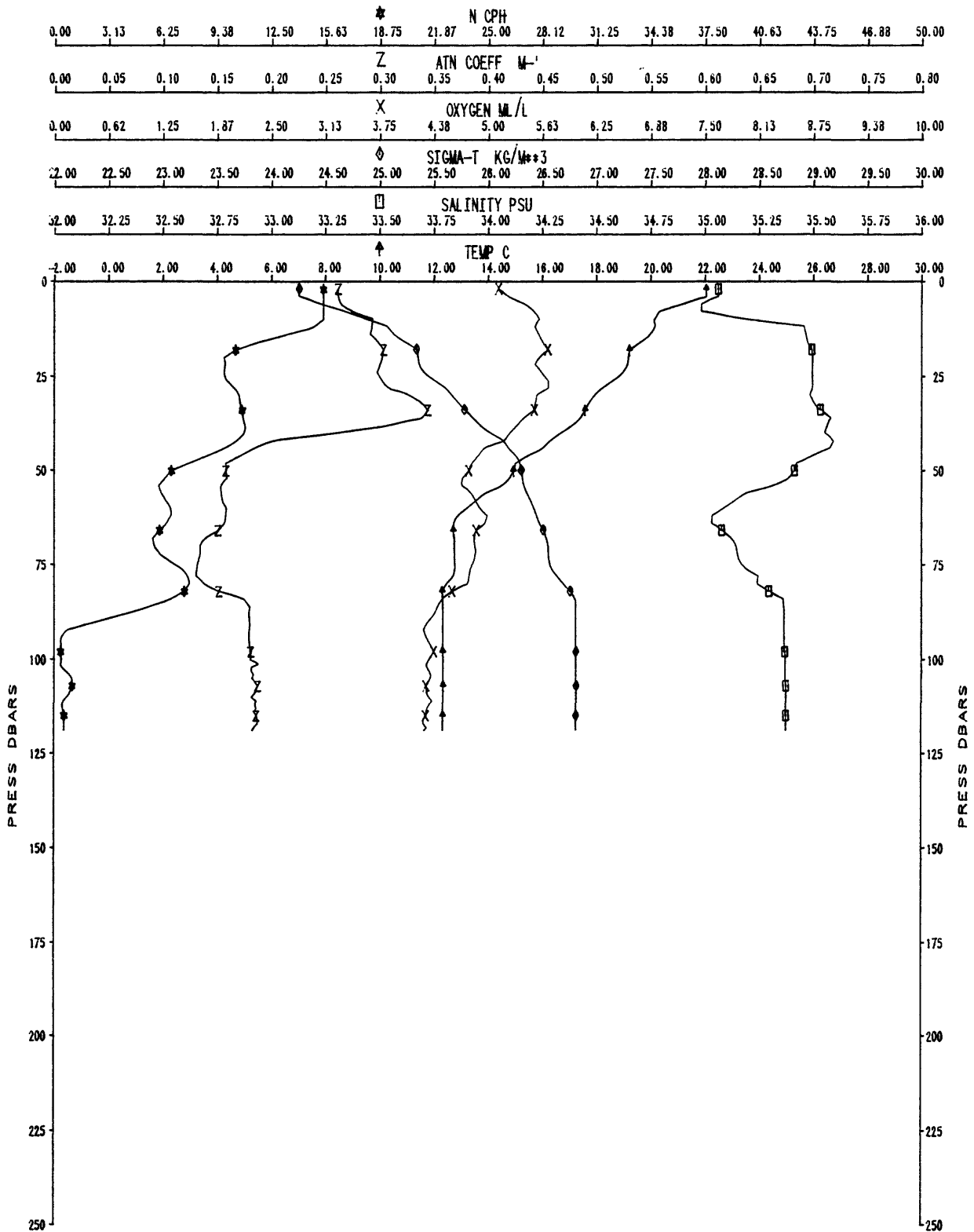


OC122

XBT-85

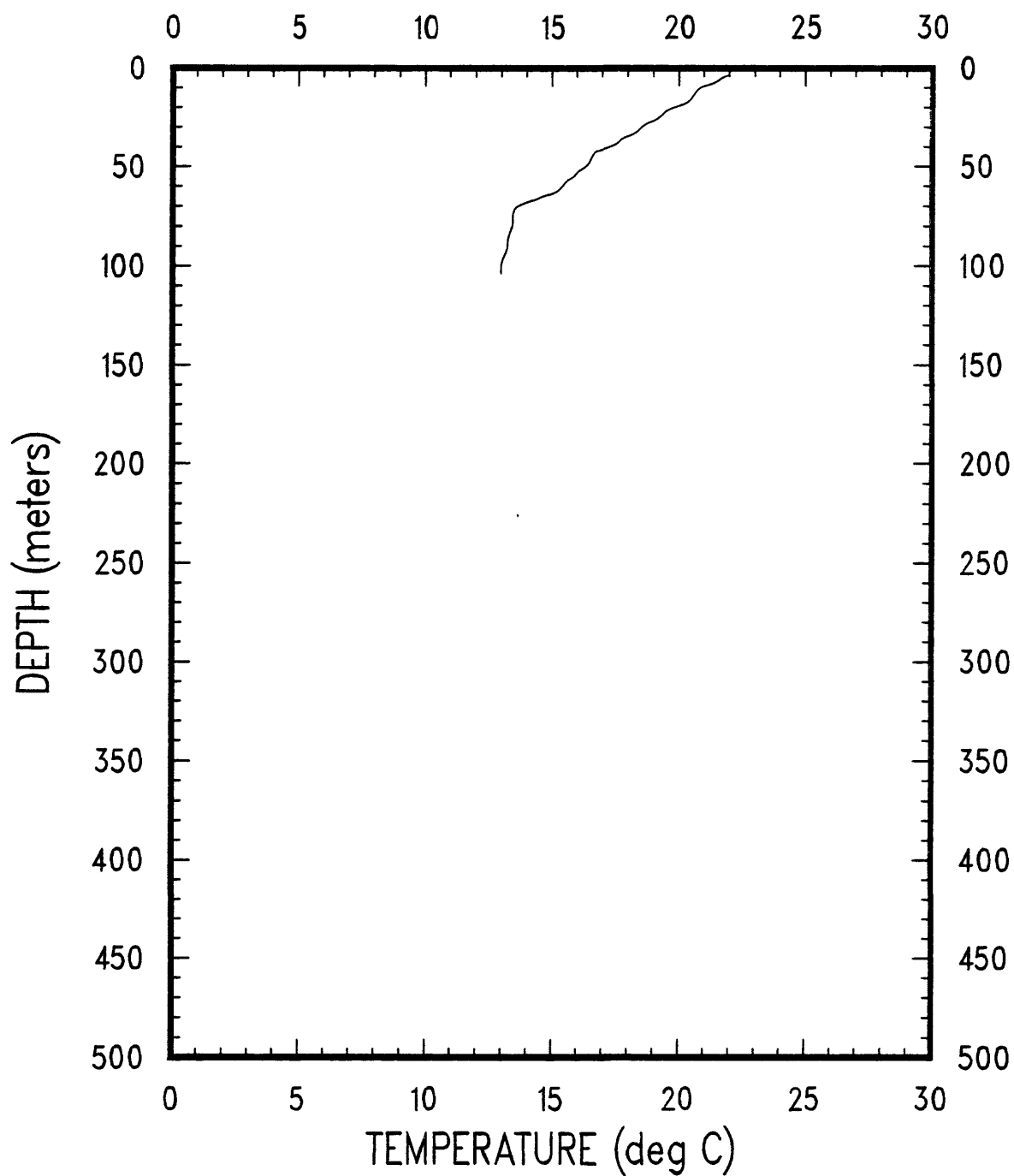


OC122A CAST #86

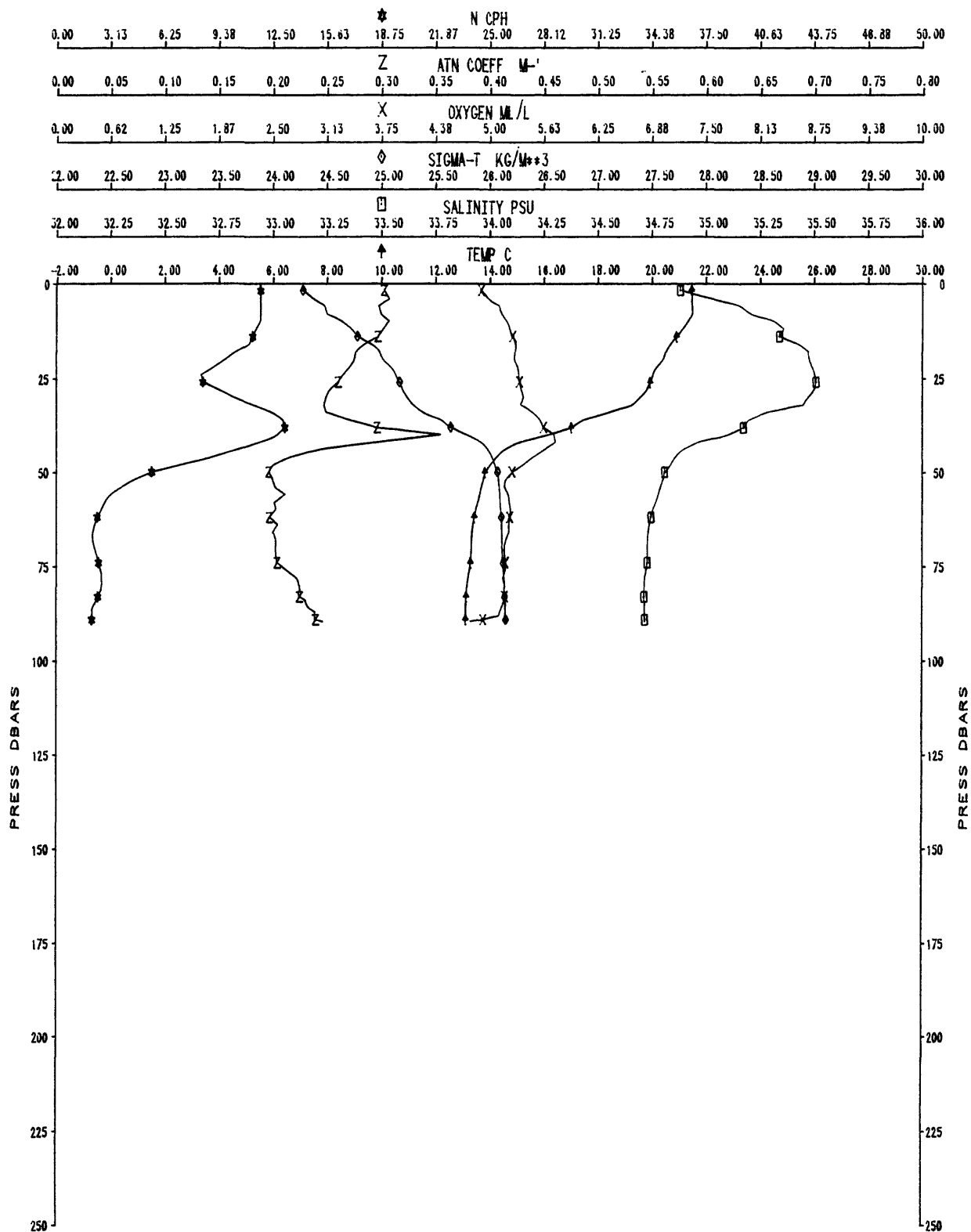


OC122

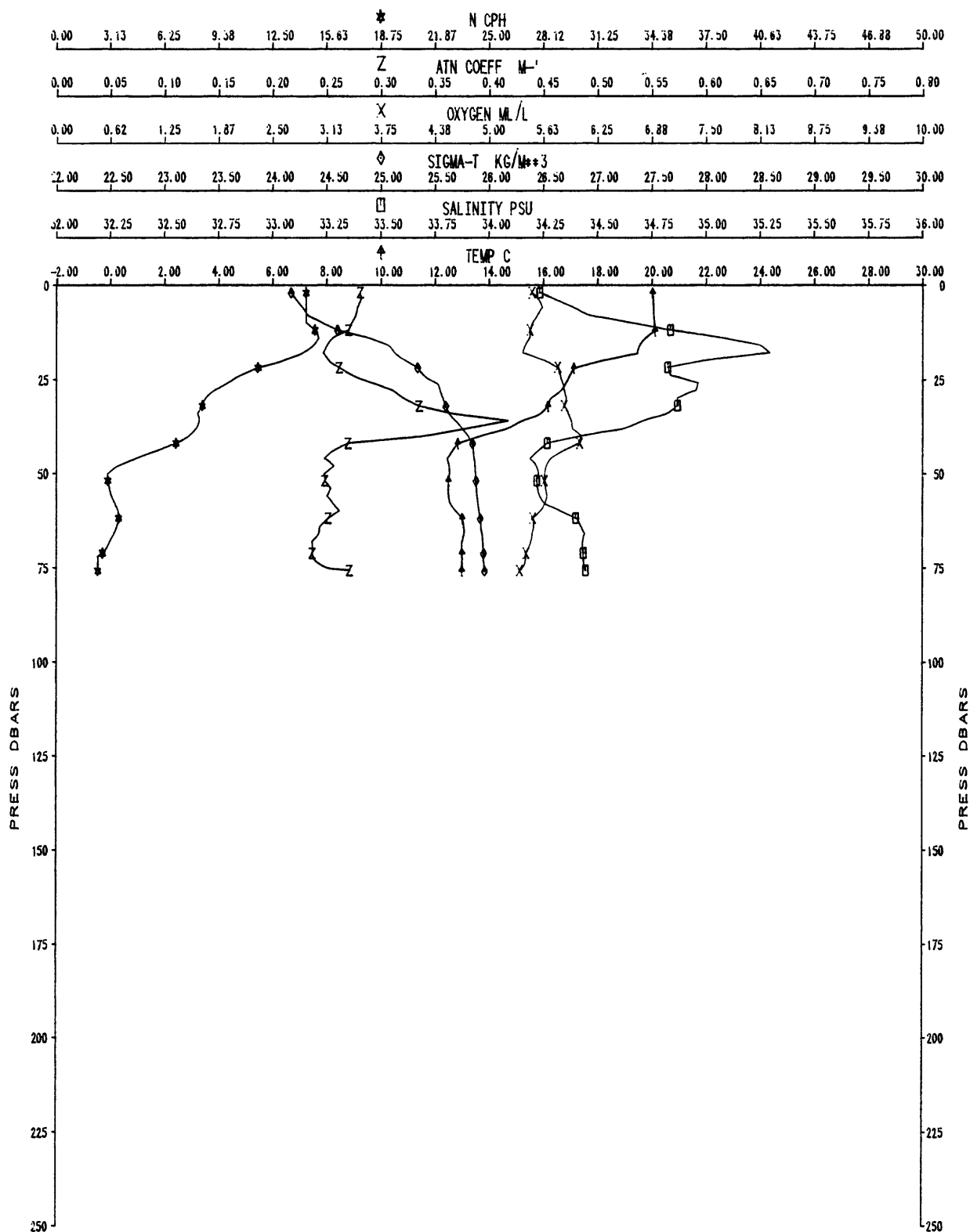
XBT-87



OC122A CAST #88



0C122A CAST #89



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. For pressures greater than 500 dbar, the 2-dbar-averaged data are subsampled at 20-dbar intervals. The XBT for stations 60 and 62 malfunctioned so that there is no data for these stations.

SHIP OC	CRUISE 122	STATION 1	DATE 06 JUL 1982	EST 1932	LATITUDE 40°40.1'N	LONGITUDE 70°00.3'W	DEPTH 50			
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	15.745	32.001	6.58	0.33	23.500	0.000	1506.	16.9	
4	4.0	15.493	31.956	6.70	0.33	23.520	0.007	1505.	16.9	
6	5.8	14.430	31.942	6.94	0.35	23.737	0.015	1501.	16.9	
8	8.0	14.196	31.949	6.99	0.40	23.791	0.024	1501.	16.9	
10	10.0	13.940	31.983	7.10	0.43	23.869	0.032	1500.	16.9	
12	12.0	13.214	32.009	7.24	0.46	24.036	0.040	1498.	17.6	
14	14.0	12.186	32.034	7.48	0.45	24.252	0.047	1494.	17.4	
16	16.0	9.834	32.161	8.00	0.41	24.763	0.054	1486.	17.1	
18	18.0	9.607	32.331	7.90	0.37	24.933	0.060	1485.	16.0	
20	20.0	9.630	32.399	7.73	0.43	24.983	0.066	1486.	14.2	
22	22.0	9.564	32.434	7.56	0.51	25.021	0.072	1485.	11.7	
24	24.0	9.514	32.460	7.41	0.58	25.049	0.078	1485.	8.5	
26	26.0	9.455	32.500	7.31	0.55	25.090	0.084	1485.	7.2	
28	28.0	9.327	32.549	7.22	0.46	25.148	0.090	1485.	6.7	
30	30.0	9.305	32.565	7.01	0.46	25.164	0.095	1485.	6.1	
32	32.1	9.287	32.575	6.83	0.46	25.175	0.101	1485.	5.5	
34	33.9	9.274	32.584	6.77	0.46	25.184	0.106	1485.	4.7	
36	36.1	9.245	32.602	6.63	0.50	25.203	0.112	1485.	3.9	
38	38.1	9.229	32.606	6.61	0.51	25.209	0.118	1485.	3.5	
39	39.8	9.221	32.610	6.27	0.53	25.213	0.122	1485.	3.2	
41	41.2	9.215	32.610	6.09	0.58	25.214	0.126	1485.	2.7	
42	42.0	9.215	32.610	6.09	0.59	25.214	0.128	1485.	2.7	
43	43.0	9.215	32.609	6.14	0.58	25.213	0.131	1485.	1.1	
44	43.9	9.215	32.610	6.25	0.58	25.213	0.134	1485.	0.3	
45	45.0	9.215	32.610	6.22	0.59	25.214	0.137	1485.	0.2	
46	46.0	9.215	32.610	6.17	0.59	25.213	0.139	1485.	0.2	
47	47.0	9.215	32.609	6.21	0.60	25.213	0.142	1485.	0.2	
48	48.1	9.214	32.609	6.23	0.62	25.213	0.145	1485.	0.2	
48	48.5	9.215	32.611	6.18	0.62	25.214	0.146	1485.	0.2	

SHIP OC	CRUISE 122	STATION 2	DATE 07 JUL 1982	EST 0554	LATITUDE 40°33.8'N	LONGITUDE 67°45.0'W	DEPTH 100			
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	17.317	34.100	5.64	0.20	24.749	0.000	1513.	9.1	
4	4.0	17.321	34.100	5.69	0.21	24.748	0.006	1513.	9.1	
6	6.0	17.323	34.098	5.80	0.20	24.746	0.012	1513.	9.1	
8	8.0	17.348	34.124	5.86	0.20	24.761	0.018	1513.	9.1	
10	10.0	17.428	34.228	5.86	0.20	24.821	0.025	1513.	9.1	
12	12.0	17.382	34.292	5.86	0.19	24.881	0.031	1513.	10.3	
14	14.0	17.199	34.335	5.86	0.19	24.958	0.037	1513.	11.0	
16	16.0	17.082	34.432	5.80	0.19	25.060	0.043	1513.	11.3	
18	18.0	17.221	34.608	5.77	0.18	25.162	0.048	1513.	11.2	
20	20.0	17.122	34.703	5.78	0.18	25.258	0.054	1513.	11.0	
22	22.0	16.993	34.719	5.83	0.18	25.302	0.059	1513.	10.5	
24	24.0	16.568	34.675	5.90	0.18	25.367	0.065	1512.	10.1	
26	25.9	15.841	34.536	6.00	0.19	25.428	0.070	1509.	9.7	
28	28.0	15.711	34.582	6.06	0.21	25.492	0.075	1509.	9.5	
30	30.0	15.821	34.653	6.04	0.21	25.523	0.080	1509.	9.9	
32	31.9	15.954	34.794	5.99	0.21	25.601	0.084	1510.	10.2	
34	34.0	15.904	34.837	5.97	0.22	25.645	0.089	1510.	10.2	
36	36.0	15.852	34.918	5.91	0.24	25.719	0.094	1510.	10.1	
38	38.0	15.398	34.930	5.90	0.25	25.831	0.099	1508.	9.8	
40	40.0	14.950	34.904	5.82	0.22	25.910	0.103	1507.	9.2	
42	42.1	14.898	34.921	5.65	0.22	25.934	0.107	1507.	8.5	
44	43.9	14.873	34.944	5.55	0.21	25.958	0.111	1507.	7.6	
46	46.1	14.972	35.008	5.47	0.21	25.985	0.115	1507.	6.5	
48	47.9	15.026	35.046	5.41	0.19	26.002	0.119	1508.	5.8	
50	49.9	15.024	35.081	5.35	0.20	26.030	0.123	1508.	5.4	
52	52.2	15.109	35.138	5.25	0.19	26.055	0.127	1508.	5.0	
54	54.1	15.094	35.146	5.18	0.19	26.065	0.131	1508.	4.7	
56	56.0	15.039	35.136	5.16	0.18	26.069	0.135	1508.	4.5	
58	58.1	14.973	35.132	5.14	0.18	26.080	0.139	1508.	4.3	
60	60.2	14.955	35.135	5.11	0.18	26.086	0.143	1508.	4.4	
62	62.1	14.892	35.140	5.08	0.19	26.104	0.147	1508.	4.8	
64	64.1	14.762	35.123	5.09	0.16	26.120	0.150	1507.	5.1	
66	66.0	14.526	35.073	5.04	0.17	26.132	0.154	1506.	5.2	
67	68.0	13.867	34.915	5.15	0.17	26.150	0.158	1504.	5.1	
69	70.0	13.734	34.924	5.13	0.18	26.185	0.162	1504.	4.8	
71	72.0	13.460	34.868	5.14	0.18	26.198	0.165	1503.	4.6	
73	74.0	13.313	34.834	5.14	0.19	26.202	0.169	1502.	4.3	
76	76.2	13.277	34.827	5.13	0.19	26.204	0.173	1502.	4.0	
77	78.0	13.225	34.823	5.10	0.18	26.211	0.176	1502.	3.7	
79	80.1	13.199	34.837	5.11	0.18	26.227	0.180	1502.	3.8	
81	81.2	13.201	34.843	5.14	0.19	26.231	0.182	1502.	4.0	
81	82.0	13.196	34.848	5.05	0.19	26.236	0.183	1502.	4.2	
82	83.0	13.176	34.854	4.99	0.20	26.245	0.185	1502.	4.5	
83	84.0	13.108	34.842	5.03	0.18	26.249	0.187	1502.	4.6	
84	85.1	13.009	34.817	5.06	0.18	26.250	0.189	1501.	4.9	
85	86.0	12.785	34.768	5.11	0.18	26.257	0.190	1501.	4.9	
86	87.0	12.796	34.795	5.07	0.18	26.275	0.192	1501.	4.7	
87	88.0	12.859	34.818	5.03	0.19	26.281	0.194	1501.	4.8	
88	89.0	12.972	34.864	5.00	0.18	26.293	0.196	1501.	4.7	
89	90.0	12.934	34.852	5.03	0.18	26.292	0.197	1501.	4.4	

SHIP	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH					
OC	122	2	07 JUL 1982	0554	40°33.8'N	67°45.0'W	100					
DEPTH	PRESS	TEMP	SALIN	OXY	ATN	SIGT	DYHT	A	S	SPD	N	cph
m	dbar	°C	psu	ml/l	m ⁻¹	gm/cm ³	10m ² /s ²	10m ² /s ²	m/s			
90	91.0	12.798	34.815	5.05	0.18	26.291	0.199	1501.			4.4	
91	92.0	12.641	34.790	5.04	0.18	26.302	0.201	1500.			4.4	
92	93.0	12.572	34.779	5.07	0.19	26.307	0.203	1500.			4.4	
93	94.0	12.513	34.774	5.05	0.19	26.315	0.205	1500.			4.4	
94	95.0	12.430	34.774	4.98	0.19	26.331	0.206	1500.			4.4	
								</				

SHIP OC	DEPTH m	CRUISE 122	STATION 3	DATE 07 JUL 1982	EST 1146	LATITUDE 40°27.2'N	LONGITUDE 67°38.0'W	DEPTH 155	SHIP OC	DEPTH m	CRUISE 122	STATION 4	DATE 07 JUL 1982	EST 1745	LATITUDE 40°31.5'N	LONGITUDE 67°42.8'W	DEPTH 287		
		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			ATN m ⁻¹	SIGT gm/cm ³	DYHT A 10m ² /s ²	S SPD m/s	N	cph
101	101.9	101.9	13.256	35.451	4.67	0.12	26.691	0.201	1503.	4.8		21.201	35.471	0.21	24.799	0.000	1525.	4.5	
103	104.1	104.1	13.040	35.413	4.67	0.12	26.705	0.204	1503.	5.0		21.207	35.471	0.21	24.797	0.006	1525.	4.5	
105	106.0	106.0	12.933	35.407	4.67	0.12	26.722	0.206	1502.	5.2		21.207	35.471	0.21	24.797	0.013	1525.	4.5	
107	108.1	108.1	12.842	35.410	4.66	0.12	26.743	0.209	1502.	5.5		21.208	35.471	0.21	24.797	0.019	1525.	4.5	
109	109.9	109.9	12.883	35.442	4.59	0.12	26.760	0.212	1502.	5.6		21.190	35.467	0.21	24.799	0.026	1525.	4.5	
111	112.1	112.1	12.721	35.439	4.57	0.12	26.790	0.214	1502.	5.4		21.081	35.459	0.21	24.822	0.032	1525.	4.9	
113	113.9	113.9	12.685	35.457	4.50	0.12	26.811	0.217	1502.	5.3		20.915	35.454	0.21	24.864	0.038	1525.	5.6	
115	116.2	116.2	12.749	35.498	4.43	0.12	26.830	0.220	1502.	5.1		20.846	35.458	0.21	24.886	0.044	1525.	6.6	
117	117.9	117.9	12.757	35.505	4.38	0.12	26.834	0.222	1502.	4.7		20.843	35.460	0.22	24.888	0.050	1525.	7.4	
119	120.1	120.1	12.676	35.491	4.35	0.12	26.839	0.224	1502.	4.2		20.834	35.465	0.22	24.894	0.056	1525.	8.1	
121	122.0	122.0	12.565	35.500	4.33	0.12	26.868	0.227	1501.	3.9		20.696	35.503	0.23	24.961	0.062	1524.	8.8	
123	124.1	124.1	12.567	35.506	4.27	0.12	26.873	0.229	1501.	3.7		20.478	35.541	0.25	25.049	0.068	1524.	9.4	
125	126.0	126.0	12.577	35.512	4.21	0.12	26.875	0.231	1501.	3.7		20.324	35.550	0.26	25.096	0.074	1523.	9.8	
127	128.0	128.0	12.556	35.510	4.23	0.12	26.877	0.234	1501.	3.6		20.120	35.569	0.28	25.165	0.079	1523.	9.7	
129	129.9	129.9	12.439	35.492	4.23	0.12	26.887	0.236	1501.	3.3		19.896	35.594	0.30	25.244	0.085	1522.	9.2	
131	132.0	132.0	12.374	35.487	4.25	0.13	26.896	0.239	1501.	3.4		19.755	35.606	0.32	25.290	0.091	1522.	8.6	
133	134.0	134.0	12.343	35.493	4.26	0.13	26.906	0.241	1501.	3.4		19.618	35.612	0.33	25.331	0.096	1522.	8.6	
135	136.1	136.1	12.314	35.496	4.25	0.13	26.915	0.244	1501.	3.4		19.550	35.620	0.33	25.354	0.101	1522.	8.4	
137	138.0	138.0	12.335	35.505	4.18	0.13	26.917	0.246	1501.	3.3		19.462	35.625	0.33	25.381	0.106	1521.	8.4	
139	140.0	140.0	12.403	35.531	4.15	0.12	26.924	0.248	1501.	3.1		19.230	35.605	0.34	25.426	0.112	1521.	8.6	
140	141.2	141.2	12.402	35.537	4.11	0.12	26.928	0.249	1501.	3.0		18.598	35.512	0.36	25.516	0.117	1519.	8.8	
141	142.0	142.0	12.401	35.537	4.10	0.12	26.929	0.250	1501.	3.0		18.424	35.508	0.37	25.557	0.121	1518.	8.9	
142	143.0	143.0	12.409	35.541	4.06	0.12	26.931	0.251	1501.	4.0		17.979	35.415	0.38	25.596	0.126	1517.	9.7	
143	144.0	144.0	12.408	35.547	4.02	0.12	26.936	0.253	1501.	5.0		17.156	35.224	0.37	25.650	0.131	1514.	10.4	
144	145.0	145.0	12.374	35.541	4.01	0.12	26.938	0.254	1501.	5.5		17.237	35.306	0.36	25.693	0.136	1515.	10.7	
145	146.0	146.0	12.271	35.522	4.00	0.12	26.943	0.255	1501.	5.7		16.273	35.071	0.35	25.740	0.140	1512.	10.9	
146	147.0	147.0	11.943	35.482	4.06	0.12	26.975	0.256	1500.	5.8		14.840	34.884	0.25	25.918	0.145	1507.	10.8	
147	148.0	148.0	11.887	35.492	4.04	0.12	26.993	0.257	1499.	5.8		14.642	34.959	0.23	26.019	0.149	1506.	10.3	
148	149.0	149.0	11.885	35.494	3.96	0.12	26.995	0.258	1499.	5.8		14.172	34.872	0.22	26.053	0.153	1505.	9.5	
149	150.0	150.0	11.869	35.489	3.94	0.12	26.995	0.259	1499.	5.8		13.883	34.840	0.22	26.088	0.157	1504.	8.5	
150	150.9	150.9	11.857	35.493	3.97	0.12	27.000	0.260	1499.	5.8		13.895	34.875	0.21	26.113	0.160	1504.	7.0	
												13.873	34.885	0.20	26.126	0.164	1504.	6.3	
												13.795	34.885	0.23	26.142	0.168	1504.	5.8	
												70.1	14.741	0.20	26.197	0.172	1507.	5.3	
												70.1	14.803	0.19	26.190	0.175	1507.	4.9	
												73	14.0	0.19	26.229	0.179	1509.	4.8	
												73	74.0	0.19	26.229	0.179	1509.	4.8	
												77	76.0	0.19	26.213	0.183	1510.	4.6	
												77	78.0	0.19	26.222	0.186	1512.	4.1	
												79	80.0	0.18	26.233	0.190	1512.	4.5	
												81	82.0	0.17	26.260	0.193	1512.	5.1	
												83	84.0	0.16	26.282	0.197	1512.	6.0	
												85	86.0	0.15	26.268	0.201	1509.	6.2	
												87	88.0	0.14	26.308	0.204	1507.	6.3	
												89	90.1	0.14	26.369	0.208	1507.	6.3	
												91	91.9	0.13	26.395	0.211	1510.	6.2	
												93	94.1	0.13	26.395	0.214	1510.	6.3	
												95	95.9	0.12	26.424	0.217	1509.	6.2	
												97	98.0	0.12	26.439	0.221	1509.	6.0	
												99	100.1	0.12	26.452	0.224	1508.	6.2	
												101	101.9	0.11	26.498	0.227	1507.	6.3	

SHIP	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH		
OC	122	4	07 JUL 1982	1745	40°31.5'N	67°42.8'W	287		
DEPTH	PRESS	TEMP	SALIN	OXY	ATN	SIGT	DYHT A	S SPD	DEPTH
m	dbar	°C	psu	ml/l	m ⁻¹	gm/cm ³	10m ² /s ²	m/s	cph
103	104.0	14.234	35.517	4.78	0.11	26.538	0.230	1507.	6.3
105	106.0	14.090	35.490	4.77	0.11	26.547	0.233	1506.	6.1
107	108.0	14.010	35.496	4.80	0.11	26.569	0.236	1506.	5.8
109	110.1	13.928	35.500	4.76	0.11	26.590	0.239	1506.	5.3
111	111.9	13.777	35.483	4.80	0.11	26.608	0.242	1505.	5.0
113	114.1	13.621	35.454	4.76	0.11	26.618	0.245	1505.	4.9
115	115.9	13.528	35.447	4.78	0.11	26.632	0.248	1504.	4.9
117	118.0	13.481	35.457	4.75	0.11	26.649	0.250	1504.	5.0
119	120.1	13.497	35.471	4.71	0.11	26.657	0.253	1504.	5.3
121	121.9	13.322	35.444	4.75	0.11	26.672	0.256	1504.	5.6
123	124.1	13.022	35.395	4.70	0.11	26.695	0.259	1503.	5.9
125	126.0	12.662	35.336	4.76	0.12	26.722	0.262	1502.	6.3
127	128.0	12.531	35.352	4.69	0.12	26.760	0.264	1501.	6.6
129	129.9	12.497	35.357	4.66	0.12	26.771	0.267	1501.	6.6
131	132.1	12.394	35.373	4.58	0.12	26.803	0.269	1501.	6.5
133	134.0	12.212	35.384	4.59	0.12	26.847	0.272	1500.	6.2
135	136.0	12.129	35.391	4.57	0.12	26.869	0.274	1500.	5.9
137	138.0	12.080	35.394	4.52	0.13	26.880	0.277	1500.	5.6
139	140.0	12.002	35.393	4.51	0.13	26.894	0.279	1500.	5.0
141	142.1	11.876	35.388	4.46	0.14	26.915	0.282	1499.	4.4
143	144.0	11.835	35.391	4.48	0.13	26.925	0.284	1499.	3.9
145	146.1	11.812	35.396	4.43	0.13	26.933	0.286	1499.	3.5
147	147.9	11.796	35.399	4.43	0.13	26.939	0.288	1499.	2.9
149	150.1	11.790	35.400	4.38	0.13	26.941	0.291	1499.	2.3
151	151.9	11.785	35.400	4.39	0.13	26.942	0.293	1499.	1.9
153	154.0	11.780	35.400	4.39	0.13	26.943	0.295	1499.	1.5
155	156.0	11.774	35.400	4.35	0.13	26.944	0.298	1499.	1.3
157	157.9	11.770	35.400	4.38	0.13	26.944	0.300	1499.	1.5
159	160.0	11.760	35.399	4.33	0.13	26.945	0.302	1499.	1.7
161	162.0	11.754	35.399	4.34	0.13	26.946	0.304	1499.	1.9
163	164.0	11.729	35.395	4.33	0.13	26.949	0.307	1499.	2.1
165	166.0	11.690	35.393	4.34	0.13	26.954	0.309	1499.	2.6
167	167.9	11.659	35.389	4.32	0.13	26.957	0.311	1499.	3.0
169	170.0	11.637	35.388	4.32	0.13	26.960	0.313	1499.	3.3
171	172.0	11.578	35.379	4.29	0.13	26.964	0.316	1499.	3.4
173	174.0	11.437	35.368	4.32	0.14	26.982	0.318	1498.	3.4
175	176.0	11.361	35.364	4.31	0.14	26.993	0.320	1498.	3.3
177	178.0	11.339	35.364	4.31	0.14	26.998	0.322	1498.	3.2
179	180.0	11.322	35.365	4.26	0.14	27.001	0.325	1498.	3.0
180	182.0	11.310	35.365	4.28	0.14	27.004	0.327	1498.	2.7
183	184.1	11.274	35.359	4.28	0.14	27.005	0.329	1498.	2.6
184	186.0	11.215	35.354	4.30	0.14	27.013	0.331	1498.	2.9
187	188.1	11.184	35.353	4.24	0.14	27.017	0.333	1498.	3.3
188	190.0	11.147	35.351	4.28	0.15	27.023	0.335	1497.	3.9
190	192.1	11.143	35.352	4.25	0.15	27.024	0.337	1497.	4.3
192	194.0	10.953	35.335	4.31	0.15	27.045	0.340	1497.	4.5
194	196.1	10.844	35.329	4.28	0.16	27.060	0.342	1496.	4.6
196	197.9	10.673	35.315	4.32	0.17	27.081	0.344	1496.	4.6
198	200.1	10.596	35.317	4.29	0.18	27.096	0.346	1496.	4.3
200	201.8	10.545	35.310	4.34	0.18	27.100	0.347	1495.	3.7

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SHIP	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH				
OC	122	6	12 JUL 1982	1020	40°40.5'N	67°40.5'W	78				
DEPTH	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH				
m	122	6	12 JUL 1982	1020	40°40.5'N	67°40.5'W	78				
4	4.0	17.687	34.127	5.86	0.19	24.681	0.000	1514.	16.5	N	cph
6	6.0	17.773	34.167	5.86	0.20	24.690	0.007	1514.	16.5	N	cph
8	7.9	17.310	34.108	5.94	0.20	24.757	0.013	1513.	16.5	N	cph
10	10.0	17.104	34.207	5.89	0.23	24.882	0.019	1512.	16.5	N	cph
12	12.0	16.225	34.305	5.81	0.28	25.163	0.025	1510.	16.5	N	cph
14	14.0	13.799	34.154	6.06	0.31	25.576	0.030	1502.	16.2	N	cph
16	16.0	12.480	34.008	6.25	0.27	25.727	0.035	1498.	15.1	N	cph
18	18.0	12.153	33.988	6.25	0.26	25.775	0.040	1496.	13.2	N	cph
20	19.9	12.147	34.009	6.11	0.26	25.792	0.044	1496.	10.4	N	cph
22	22.1	12.244	34.057	5.97	0.26	25.811	0.048	1497.	7.3	N	cph
24	24.0	12.069	34.080	5.90	0.26	25.862	0.053	1496.	5.8	N	cph
26	26.0	12.089	34.108	5.83	0.25	25.880	0.057	1496.	5.0	N	cph
28	28.0	12.196	34.141	5.78	0.24	25.885	0.061	1497.	4.4	N	cph
30	30.0	12.250	34.161	5.75	0.24	25.890	0.065	1497.	3.5	N	cph
32	32.0	12.271	34.170	5.74	0.23	25.893	0.070	1497.	2.3	N	cph
34	33.9	12.283	34.174	5.71	0.23	25.894	0.074	1497.	1.7	N	cph
36	36.0	12.288	34.175	5.70	0.23	25.894	0.078	1497.	1.4	N	cph
38	38.0	12.294	34.178	5.69	0.23	25.895	0.082	1497.	1.7	N	cph
40	40.0	12.308	34.182	5.69	0.23	25.895	0.086	1498.	2.2	N	cph
42	41.9	12.309	34.183	5.66	0.23	25.896	0.090	1498.	3.0	N	cph
44	44.0	12.315	34.187	5.62	0.23	25.898	0.095	1498.	3.5	N	cph
46	46.1	12.401	34.226	5.52	0.23	25.912	0.099	1498.	3.8	N	cph
48	48.0	12.576	34.286	5.52	0.23	25.924	0.103	1499.	3.9	N	cph
50	50.0	12.893	34.399	5.45	0.24	25.949	0.107	1500.	3.8	N	cph
52	51.9	12.979	34.428	5.41	0.24	25.954	0.111	1500.	3.5	N	cph
54	54.0	13.014	34.440	5.39	0.24	25.957	0.116	1500.	3.0	N	cph
56	56.0	13.026	34.445	5.39	0.24	25.958	0.120	1501.	2.5	N	cph
58	58.0	13.032	34.448	5.37	0.25	25.959	0.124	1501.	1.7	N	cph
60	60.1	13.046	34.454	5.37	0.25	25.962	0.128	1501.	1.5	N	cph
61	61.2	13.051	34.457	5.35	0.25	25.962	0.130	1501.	1.5	N	cph
62	62.0	13.051	34.457	5.35	0.25	25.962	0.132	1501.	1.5	N	cph
63	63.0	13.052	34.457	5.36	0.25	25.962	0.134	1501.	1.5	N	cph
64	64.0	13.055	34.458	5.37	0.25	25.963	0.136	1501.	1.4	N	cph
66	65.0	13.062	34.463	5.36	0.25	25.965	0.138	1501.	1.4	N	cph
68	66.0	13.065	34.464	5.35	0.25	25.965	0.140	1501.	1.4	N	cph
70	67.0	13.068	34.466	5.34	0.25	25.966	0.142	1501.	1.3	N	cph
72	68.0	13.069	34.466	5.34	0.25	25.966	0.144	1501.	1.2	N	cph
74	69.0	13.070	34.467	5.35	0.25	25.966	0.146	1501.	0.9	N	cph
76	70.0	13.071	34.467	5.35	0.25	25.966	0.148	1501.	0.7	N	cph
78	71.0	13.071	34.467	5.36	0.25	25.967	0.150	1501.	0.5	N	cph
80	71.9	13.072	34.468	5.33	0.25	25.967	0.152	1501.	0.2	N	cph
82	72.9	13.072	34.467	5.30	0.25	25.966	0.154	1501.	-0.3	N	cph
84	73.0	13.072	34.467	5.28	0.25	25.966	0.156	1501.	-0.3	N	cph
86	74.0	13.070	34.466	5.23	0.25	25.966	0.159	1501.	-0.4	N	cph
88	75.0	13.070	34.466	5.23	0.25	25.966	0.161	1501.	-0.4	N	cph
90	76.0	13.070	34.467	5.18	0.25	25.966	0.163	1501.	-0.4	N	cph
92	77.0	13.071	34.467	5.12	0.25	25.966	0.165	1501.	-0.4	N	cph
94	78.1	13.071	34.467	5.10	0.25	25.966	0.166	1501.	-0.4	N	cph
96	78.6	13.071	34.466	5.18	0.24	25.966	0.166	1501.	-0.4	N	cph

SHIP OC	DEPTH m	CRUISE 122	STATION 9	DATE 12 JUL 1982	EST 1254	LATITUDE 40°27.8'N	LONGITUDE 67°35.0'W	DEPTH 138	SHIP OC	DEPTH m	CRUISE 122	STATION 9	DATE 12 JUL 1982	EST 1254	LATITUDE 40°27.8'N	LONGITUDE 67°35.0'W	DEPTH 138

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SHIP OC	CRUISE 122	STATION 10	DATE 12 JUL 1982	EST 1344	LATITUDE 40°23.1'N	LONGITUDE 67°32.9'W	DEPTH 235	STA 11								DAY: 12				TIME: 1530			
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)	TEMP (°C)	DEPTH (m)	TEMP (°C)	DEPTH (m)	TEMP (°C)	DEPTH (m)	TEMP (°C)	DEPTH (m)	TEMP (°C)				
200	202.0	11.511	35.463	3.59	0.14	27.042	0.369	1499.	3.8	0.0	24.5	27.3	21.8	37.0	16.4	65.1	17.3	97.0	14.6				
202	204.1	11.374	35.446	3.60	0.14	27.055	0.371	1499.	3.8	0.0	24.5	27.3	21.7	37.0	16.4	66.0	17.3	97.9	14.5				
204	206.0	11.232	35.428	3.62	0.15	27.067	0.373	1498.	3.7	1.0	24.4	27.3	21.5	37.9	16.3	67.0	17.4	98.9	14.4				
206	208.0	11.097	35.414	3.61	0.15	27.081	0.375	1498.	3.4	1.9	24.4	27.3	21.4	37.9	16.2	68.0	17.4	98.9	14.4				
208	210.0	11.066	35.412	3.62	0.15	27.085	0.377	1498.	3.0	1.9	24.4	27.3	21.3	38.9	16.2	69.0	17.4	100.8	14.4				
210	212.0	11.058	35.411	3.64	0.15	27.086	0.379	1498.	2.5	3.9	24.3	27.3	21.2	38.9	16.2	69.9	17.3	100.8	14.4				
212	214.0	11.052	35.410	3.67	0.16	27.086	0.381	1498.	2.1	4.9	24.3	27.3	21.1	39.9	16.2	69.9	17.3	101.8	14.3				
214	216.0	11.052	35.410	3.69	0.16	27.086	0.383	1498.	1.6	6.8	24.3	27.3	21.1	40.9	16.2	71.9	17.3	101.8	14.3				
216	217.9	11.029	35.407	3.71	0.16	27.088	0.385	1498.	1.8	7.8	24.3	27.3	20.9	41.8	16.1	71.9	17.3	101.8	14.3				
218	220.0	10.971	35.400	3.72	0.17	27.093	0.387	1497.	2.1	7.8	24.2	27.3	20.7	41.8	16.1	72.8	17.2	101.8	14.2				
219	221.3	10.970	35.401	3.73	0.17	27.094	0.388	1497.	2.6	7.8	24.2	27.3	20.6	41.8	16.0	72.8	17.1	102.8	14.1				
220	222.0	10.965	35.396	3.74	0.17	27.091	0.389	1497.	3.2	8.8	24.1	28.2	20.5	42.8	15.9	72.8	17.1	102.8	14.1				
221	223.0	10.898	35.393	3.76	0.17	27.101	0.390	1497.	4.1	8.8	24.1	28.2	20.4	42.8	15.8	73.8	17.0	102.8	14.1				
222	224.0	10.887	35.390	3.77	0.17	27.100	0.391	1497.	5.5	9.7	24.1	28.2	20.3	43.8	15.8	74.8	17.0	103.7	14.0				
223	225.0	10.778	35.379	3.77	0.17	27.112	0.392	1497.	6.4	10.7	24.0	28.2	20.2	44.7	15.8	75.7	16.9	104.7	14.0				
224	226.0	10.671	35.363	3.78	0.17	27.118	0.393	1496.	6.8	11.7	24.0	28.2	20.1	44.7	15.8	76.7	16.9	105.6	14.0				
225	227.0	10.410	35.332	3.81	0.17	27.140	0.394	1495.	6.8	12.7	24.0	28.2	19.9	45.7	15.8	77.7	16.8	106.6	14.0				
226	228.1	10.130	35.316	3.84	0.17	27.177	0.395	1494.	6.6	13.6	24.0	28.2	19.8	45.7	15.8	77.7	16.7	107.6	14.0				
227	229.0	10.040	35.307	3.84	0.18	27.186	0.396	1494.	6.1	15.6	23.9	28.2	19.7	46.7	15.8	77.7	16.6	108.5	14.0				
228	229.9	10.024	35.307	3.81	0.18	27.188	0.397	1494.	6.1	16.6	23.9	29.2	19.6	47.6	15.8	77.7	16.6	109.5	14.0				
229	231.0	10.011	35.309	3.79	0.18	27.192	0.398	1494.	6.1	17.5	23.9	29.2	19.5	47.6	15.8	78.6	16.5	110.5	14.1				
230	232.1	10.018	35.309	3.81	0.18	27.191	0.399	1494.	6.1	18.5	23.8	29.2	19.4	47.6	15.9	78.6	16.5	110.5	14.1				
231	232.9	9.966	35.306	3.85	0.17	27.198	0.399	1494.	6.1	19.5	23.7	29.2	19.3	48.6	16.0	79.6	16.4	110.5	14.2				
										20.4	23.7	29.2	19.1	48.6	16.1	80.6	16.2	111.4	14.2				
										20.4	23.6	29.2	18.8	49.6	16.1	81.5	16.1	114.3	14.2				
										21.4	23.6	30.2	18.6	50.6	16.1	81.5	16.1	115.3	14.2				
										21.4	23.5	30.2	18.4	50.6	16.2	81.5	16.0	116.2	14.2				
										22.4	23.5	30.2	18.3	51.5	16.2	82.5	16.0	117.2	14.1				
										22.4	23.4	30.2	18.2	51.5	16.3	82.5	15.9	117.2	14.0				
										23.4	23.3	30.2	18.1	51.5	16.4	82.5	15.9	117.2	13.9				
										24.3	23.2	32.1	17.9	52.5	16.5	83.5	15.8	118.2	13.9				
										24.3	23.2	32.1	17.8	52.5	16.6	83.5	15.8	118.2	13.9				
										24.3	23.2	32.1	17.8	52.5	16.7	84.4	15.8	119.1	13.9				
										24.3	23.1	32.1	17.7	52.5	16.8	85.4	15.8	120.1	13.9				
										24.3	23.1	32.1	17.7	53.5	16.9	85.4	15.6	122.0	13.9				
										24.3	23.0	32.1	17.6	53.5	17.0	86.4	15.5	123.0	13.8				
										25.3	23.0	33.1	17.6	54.4	17.0	87.3	15.4	124.9	13.8				
										25.3	22.9	33.1	17.5	55.4	17.1	88.3	15.3	126.8	13.7				
										26.3	22.8	34.1	17.4	56.4	17.1	88.3	15.3	126.8	13.7				
										26.3	22.8	35.0	17.3	56.4	17.1	89.2	15.1	127.8	13.6				
										26.3	22.6	35.0	17.3	57.3	17.2	90.2	15.1	127.8	13.6				
										26.3	22.6	35.0	17.2	58.3	17.2	91.2	15.0	129.7	13.6				
										26.3	22.5	36.0	17.1	60.2	17.2	91.2	15.0	130.7	13.6				
										26.3	22.4	36.0	17.0	61.2	17.2	92.1	14.9	131.6	13.7				
										26.3	22.3	36.0	16.8	61.2	17.2	92.1	14.9	133.5	13.7				
										26.3	22.2	36.0	16.7	62.2	17.1	93.1	14.8	135.5	13.7				
										26.3	22.1	36.0	16.6	63.1	17.2	95.0	14.7	136.4	13.6				
										26.3	22.0	37.0	16.6	63.1	17.2	96.0	14.7	136.4	13.6				
										27.3	21.9	37.0	16.5	64.1	17.3	97.0	14.6	138.3	13.6				

STA 11 DAY: 12 TIME: 1530 STA 11 DAY: 12 TIME: 1530

DEPTH (m)	TEMP (°C)	DEPTH (m)	TEMP (°C)	DEPTH (m)	TEMP (°C)	DEPTH (m)	TEMP (°C)	DEPTH (m)	TEMP (°C)	DEPTH (m)	TEMP (°C)	DEPTH (m)	TEMP (°C)	DEPTH (m)	TEMP (°C)
139.3	13.6	201.5	11.7	267.0	9.2	339.6	7.2	433.0	5.7	569.2	5.1	717.6	4.6		
139.3	13.6	203.4	11.7	268.0	9.2	340.5	7.2	434.8	5.7	573.8	5.0	720.3	4.6		
140.3	13.5	205.3	11.7	269.9	9.1	342.4	7.1	439.4	5.7	576.5	5.1	723.0	4.6		
141.2	13.5	207.2	11.6	271.8	9.0	343.4	7.1	442.2	5.7	580.2	5.1	725.7	4.6		
142.2	13.5	208.2	11.5	272.7	9.0	344.3	7.0	445.9	5.7	582.9	5.0	727.5	4.6		
144.1	13.4	208.2	11.5	273.7	8.9	347.1	6.9	451.5	5.7	584.7	5.0	730.1	4.6		
146.0	13.4	209.1	11.4	274.6	8.9	349.0	6.9	453.3	5.7	586.5	5.0				
146.0	13.4	210.1	11.3	276.5	8.9	351.8	6.9	458.0	5.7	588.4	5.0				
147.0	13.3	210.1	11.3	276.5	8.8	352.7	6.9	461.7	5.7	592.0	5.0				
147.9	13.2	211.0	11.2	278.4	8.7	355.6	6.8	464.5	5.7	596.6	5.0				
149.9	13.2	212.9	11.2	279.3	8.7	357.4	6.8	467.2	5.7	598.4	5.0				
149.9	13.2	215.8	11.2	281.2	8.7	359.3	6.7	469.1	5.6	601.1	5.0				
152.7	13.2	217.7	11.2	282.2	8.7	359.3	6.7	470.9	5.6	602.9	4.9				
154.7	13.2	218.6	11.2	282.2	8.6	361.2	6.7	472.8	5.5	603.8	4.9				
156.6	13.2	220.5	11.1	283.1	8.5	364.0	6.6	475.5	5.5	605.7	4.9				
158.5	13.2	221.5	11.0	285.9	8.5	367.7	6.6	478.3	5.5	609.3	4.9				
160.4	13.1	221.5	10.9	287.8	8.5	369.6	6.6	481.1	5.5	612.0	4.9				
160.4	13.0	222.4	10.8	288.8	8.5	369.6	6.6	484.8	5.5	613.8	4.9				
161.4	12.9	224.4	10.8	289.7	8.4	371.5	6.6	487.5	5.5	615.7	4.9				
161.4	12.9	225.3	10.8	290.7	8.4	374.3	6.5	490.3	5.5	620.2	4.9				
163.3	12.9	226.3	10.7	293.5	8.3	374.3	6.5	492.2	5.5	623.8	4.9				
164.2	12.8	227.2	10.7	295.4	8.3	377.1	6.5	494.0	5.5	627.5	4.9				
164.2	12.8	228.2	10.6	296.3	8.3	378.9	6.5	494.9	5.4	630.2	4.8				
166.2	12.8	231.0	10.6	297.3	8.3	379.9	6.4	497.7	5.4	634.7	4.8				
168.1	12.7	231.0	10.5	298.2	8.2	381.7	6.4	500.4	5.4	639.2	4.8				
169.0	12.7	232.0	10.5	300.1	8.2	384.5	6.3	502.3	5.4	643.8	4.8				
170.0	12.7	233.9	10.4	301.0	8.2	386.4	6.3	505.0	5.4	645.6	4.8				
170.9	12.6	234.8	10.4	302.0	8.1	389.2	6.3	507.8	5.4	648.3	4.8				
171.9	12.5	235.8	10.4	302.9	8.0	392.0	6.3	510.6	5.4	648.3	4.8				
172.9	12.5	237.7	10.4	303.9	8.0	393.9	6.2	512.4	5.3	651.9	4.8				
174.8	12.5	239.6	10.4	305.8	7.9	396.7	6.2	515.2	5.3	653.7	4.8				
175.7	12.5	240.5	10.3	305.8	7.8	399.5	6.2	517.0	5.3	657.3	4.8				
176.7	12.4	241.5	10.2	307.6	7.8	402.3	6.2	519.8	5.3	660.9	4.8				
177.6	12.4	241.5	10.1	308.6	7.8	403.2	6.2	522.5	5.3	664.5	4.7				
178.6	12.4	243.4	10.1	309.5	7.7	404.1	6.1	525.3	5.2	668.1	4.7				
180.5	12.3	244.3	10.0	311.4	7.7	405.1	6.1	527.1	5.3	671.8	4.7				
182.4	12.3	246.2	10.0	314.2	7.6	406.0	6.0	528.9	5.3	673.6	4.7				
182.4	12.3	249.0	10.0	316.1	7.6	407.8	6.0	530.8	5.3	676.3	4.7				
184.3	12.3	250.0	9.9	318.0	7.6	409.7	6.0	532.6	5.2	678.1	4.7				
185.3	12.2	250.9	9.9	319.9	7.6	410.6	6.0	535.4	5.3	680.8	4.7				
187.2	12.2	252.8	9.8	320.8	7.5	411.6	5.9	538.1	5.2	685.3	4.6				
188.1	12.1	253.8	9.7	323.6	7.5	411.6	5.9	541.8	5.2	689.8	4.7				
188.1	12.1	254.7	9.7	326.5	7.5	416.2	5.9	543.6	5.2	692.5	4.6				
190.1	12.0	255.7	9.6	329.3	7.5	418.1	5.9	545.4	5.2	695.2	4.6				
192.9	12.0	258.5	9.5	330.2	7.5	420.9	5.9	549.1	5.2	698.8	4.7				
193.9	12.0	259.5	9.5	332.1	7.4	423.7	5.9	552.8	5.2	700.6	4.6				
193.9	11.9	261.4	9.5	334.9	7.4	426.5	5.9	556.4	5.2	705.0	4.6				
196.7	11.9	262.3	9.4	335.9	7.3	427.4	5.9	560.1	5.1	707.7	4.6				
198.6	11.9	263.3	9.4	337.7	7.3	429.2	5.8	563.7	5.1	710.4	4.6				
199.6	11.8	265.1	9.2	338.7	7.3	430.2	5.7	567.4	5.1	713.1	4.6				

SHIP OC	CRUISE 122	STATION 12	DATE 12 JUL 1982	EST 1512	LATITUDE 40°16.6'N	LONGITUDE 67°30.4'W	DEPTH 1280			
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	11.938	35.526	3.47	0.12	27.010	0.361	1501.	3.1	
202	204.1	11.817	35.510	3.47	0.12	27.021	0.363	1500.	3.2	
204	206.0	11.768	35.502	3.48	0.12	27.024	0.365	1500.	3.3	
206	208.0	11.637	35.483	3.50	0.13	27.034	0.367	1500.	3.2	
208	210.0	11.556	35.473	3.49	0.13	27.042	0.370	1499.	3.1	
210	212.0	11.520	35.469	3.47	0.13	27.045	0.372	1499.	3.0	
212	214.1	11.494	35.466	3.46	0.13	27.048	0.374	1499.	3.0	
214	216.0	11.412	35.453	3.48	0.13	27.053	0.376	1499.	2.9	
216	218.1	11.319	35.440	3.47	0.14	27.061	0.378	1499.	2.9	
218	220.0	11.272	35.435	3.46	0.14	27.065	0.380	1498.	3.0	
220	222.0	11.200	35.425	3.45	0.14	27.071	0.382	1498.	3.1	
222	224.0	11.140	35.419	3.43	0.14	27.077	0.384	1498.	3.2	
224	226.0	11.078	35.410	3.42	0.14	27.081	0.386	1498.	3.3	
226	228.0	10.986	35.397	3.42	0.14	27.088	0.388	1498.	3.3	
228	230.0	10.918	35.389	3.42	0.14	27.094	0.390	1497.	3.2	
230	232.0	10.772	35.370	3.42	0.14	27.106	0.392	1497.	3.0	
232	234.0	10.724	35.366	3.39	0.14	27.111	0.394	1497.	2.8	
234	236.0	10.709	35.364	3.38	0.14	27.112	0.396	1497.	2.7	
236	237.9	10.691	35.361	3.38	0.14	27.113	0.398	1497.	2.5	
238	240.0	10.637	35.353	3.36	0.14	27.116	0.400	1496.	2.3	
240	242.0	10.568	35.343	3.36	0.14	27.121	0.402	1496.	2.4	
242	244.0	10.512	35.336	3.36	0.14	27.126	0.404	1496.	2.5	
244	246.0	10.477	35.332	3.35	0.15	27.129	0.406	1496.	2.5	
246	248.0	10.437	35.327	3.34	0.15	27.132	0.408	1496.	2.5	
248	250.0	10.390	35.322	3.34	0.15	27.136	0.410	1496.	2.6	
250	252.0	10.335	35.313	3.34	0.15	27.139	0.412	1496.	2.6	
252	254.0	10.291	35.309	3.36	0.16	27.143	0.414	1495.	2.8	
254	256.0	10.241	35.303	3.32	0.16	27.148	0.416	1495.	2.9	
256	258.0	10.158	35.293	3.31	0.16	27.154	0.418	1495.	3.0	
258	260.0	10.122	35.290	3.32	0.16	27.158	0.420	1495.	3.1	
260	262.0	10.011	35.276	3.35	0.17	27.166	0.422	1495.	3.1	
262	264.0	9.956	35.275	3.35	0.17	27.174	0.424	1494.	3.0	
264	266.0	9.919	35.271	3.33	0.17	27.178	0.425	1494.	2.9	
266	268.0	9.871	35.266	3.33	0.17	27.182	0.427	1494.	2.9	
268	270.0	9.811	35.259	3.35	0.18	27.187	0.429	1494.	3.0	
270	272.0	9.765	35.254	3.35	0.18	27.191	0.431	1494.	3.1	
272	274.0	9.719	35.248	3.35	0.18	27.194	0.433	1494.	3.2	
274	276.0	9.590	35.230	3.36	0.18	27.202	0.435	1493.	3.2	
276	277.9	9.459	35.218	3.37	0.18	27.214	0.436	1493.	3.2	
278	280.1	9.409	35.214	3.35	0.18	27.219	0.438	1493.	3.1	
280	281.9	9.376	35.210	3.35	0.18	27.222	0.440	1492.	3.0	
282	284.1	9.307	35.202	3.35	0.19	27.227	0.442	1492.	2.8	
284	286.0	9.262	35.198	3.37	0.19	27.231	0.444	1492.	2.7	
286	288.0	9.231	35.195	3.35	0.19	27.234	0.445	1492.	2.9	
288	290.0	9.170	35.187	3.37	0.19	27.238	0.447	1492.	2.9	
290	292.0	9.107	35.179	3.35	0.19	27.242	0.449	1492.	2.9	
292	294.1	8.957	35.164	3.38	0.19	27.254	0.451	1491.	2.8	
293	296.0	8.926	35.163	3.40	0.19	27.258	0.452	1491.	2.7	
295	298.0	8.913	35.163	3.40	0.20	27.260	0.454	1491.	2.7	
298	300.1	8.898	35.162	3.39	0.20	27.262	0.456	1491.	2.7	

STA 13				DAY: 12				TIME: 1634				DAY: 12				TIME: 1634			
DEPTH (m)	TEMP (°C)	DEPTH (m)	TEMP (°C)	DEPTH (m)	TEMP (°C)	DEPTH (m)	TEMP (°C)	DEPTH (m)	TEMP (°C)	DEPTH (m)	TEMP (°C)	DEPTH (m)	TEMP (°C)	DEPTH (m)	TEMP (°C)	DEPTH (m)	TEMP (°C)	DEPTH (m)	TEMP (°C)
0.0	24.3	28.2	21.0	49.6	16.0	99.9	14.8	148.9	13.3	227.2	10.9	291.6	8.4	384.5	6.8	498.6	5.4	692.5	4.6
0.0	24.2	28.2	20.9	50.6	15.9	100.8	14.6	149.9	13.3	228.2	10.8	293.5	8.4	385.5	6.7	500.4	5.4	698.8	4.6
1.0	24.2	28.2	20.7	51.5	15.9	102.8	14.5	150.8	13.3	228.2	10.8	294.4	8.4	387.3	6.6	503.2	5.4	703.2	4.6
1.9	24.2	28.2	20.6	52.5	16.0	102.8	14.3	150.8	13.2	230.1	10.7	295.4	8.3	387.3	6.6	505.0	5.4	708.6	4.6
1.9	24.1	28.2	20.5	53.5	16.0	102.8	14.3	152.7	13.2	232.9	10.7	297.3	8.3	391.1	6.6	509.6	5.3	714.9	4.6
3.9	24.1	28.2	20.4	54.4	16.1	103.7	14.2	154.7	13.2	233.9	10.7	299.2	8.3	392.9	6.5	513.3	5.3	718.5	4.6
4.9	24.1	29.2	20.2	55.4	16.1	105.6	14.0	155.6	13.2	234.8	10.6	300.1	8.3	395.7	6.5	517.0	5.3	721.2	4.6
6.8	24.1	29.2	20.1	55.4	16.1	105.6	13.9	156.6	13.1	238.6	10.6	301.0	8.2	397.6	6.5	519.8	5.3	724.8	4.6
7.8	24.1	29.2	20.0	56.4	16.2	106.6	13.8	157.5	13.0	240.5	10.6	302.0	8.2	400.4	6.5	522.5	5.3	725.7	4.6
8.8	24.0	28.2	19.8	56.4	16.3	106.6	13.7	159.4	13.0	242.4	10.5	302.9	8.1	402.3	6.4	526.2	5.3	727.5	4.6
8.8	23.9	29.2	19.7	56.4	16.4	107.6	13.6	160.4	13.0	242.4	10.4	304.8	8.1	403.2	6.4	528.9	5.3	728.4	4.5
8.8	23.8	29.2	19.5	57.3	16.5	108.5	13.6	162.3	12.9	244.3	10.4	305.8	8.0	406.0	6.4	530.8	5.3	731.0	4.5
8.8	23.7	30.2	19.2	58.3	16.7	109.5	13.5	163.3	12.9	245.2	10.3	305.8	8.0	406.9	6.4	532.6	5.3	734.6	4.5
9.7	23.6	30.2	18.9	58.3	16.8	109.5	13.4	164.2	12.8	246.2	10.3	307.6	8.0	410.6	6.4	533.5	5.3	737.3	4.5
10.7	23.5	30.2	18.4	59.3	16.9	109.5	13.3	167.1	12.7	247.1	10.2	310.5	8.0	411.6	6.4	534.4	5.2	743.6	4.5
10.7	23.5	30.2	18.2	61.2	16.9	110.5	13.3	168.1	12.7	249.0	10.2	313.3	7.9	412.5	6.3	538.1	5.2	745.3	4.4
11.7	23.4	30.2	18.0	63.1	16.9	111.4	13.2	170.0	12.7	250.9	10.2	316.1	7.9	413.4	6.2	541.8	5.2	746.2	4.4
12.7	23.4	30.2	17.9	65.1	16.9	113.4	13.2	170.9	12.5	253.8	10.2	318.0	7.9	415.3	6.2	544.5	5.2	749.8	4.4
12.7	23.4	30.2	17.7	66.0	16.9	114.3	13.2	170.9	12.4	254.7	10.1	319.9	7.8	418.1	6.1	548.2	5.1	751.6	4.4
13.6	23.4	30.2	17.6	67.0	16.9	116.2	13.2	171.9	12.4	255.7	10.0	320.8	7.8	419.9	6.1	550.9	5.1	753.4	4.4
14.6	23.4	31.1	17.4	68.0	16.8	117.2	13.1	174.8	12.3	256.6	9.9	322.7	7.7	421.8	6.1	553.7	5.0		
14.6	23.5	31.1	17.3	69.9	16.8	118.2	13.1	176.7	12.3	258.5	9.9	324.6	7.6	423.7	6.1	557.3	5.0		
14.6	23.6	31.1	17.2	71.9	16.8	119.1	13.0	178.6	12.2	260.4	9.8	326.5	7.5	425.5	6.0	559.2	5.0		
15.6	23.7	32.1	17.0	73.8	16.7	120.1	13.0	180.5	12.2	262.3	9.8	328.3	7.5	428.3	6.0	564.7	5.0		
15.6	23.7	32.1	16.8	74.8	16.7	122.0	13.0	183.4	12.2	264.2	9.7	330.2	7.5	431.1	6.0	569.2	5.0		
16.6	23.7	32.1	16.7	74.8	16.6	123.0	13.1	184.3	12.1	265.1	9.7	333.0	7.5	433.9	6.0	572.9	5.0		
17.5	23.8	32.1	16.6	75.7	16.6	123.0	13.2	186.2	12.0	265.1	9.5	334.9	7.5	436.7	6.0	577.4	5.0		
19.5	23.8	33.1	16.5	76.7	16.6	123.9	13.4	189.1	12.0	266.1	9.4	335.9	7.4	438.5	5.9	581.1	5.0		
20.4	23.7	33.1	16.4	77.7	16.5	123.9	13.4	191.0	11.9	267.0	9.4	338.7	7.4	440.4	5.9	584.7	5.0		
21.4	23.7	33.1	16.3	77.7	16.4	124.9	13.4	192.0	11.8	268.0	9.3	339.6	7.3	443.2	5.9	590.2	5.0		
21.4	23.6	34.1	16.2	78.6	16.3	125.9	13.4	193.9	11.8	268.9	9.3	341.5	7.3	444.1	5.9	593.8	5.0		
22.4	23.5	34.1	16.1	79.6	16.2	126.8	13.4	194.8	11.8	269.9	9.3	343.4	7.3	445.9	5.8	596.6	4.9		
23.4	23.4	35.0	16.0	81.5	16.2	127.8	13.3	196.7	11.7	270.8	9.2	346.2	7.2	447.8	5.8	599.3	4.9		
23.4	23.2	36.0	16.0	83.5	16.2	128.7	13.2	198.6	11.6	272.7	9.2	349.0	7.2	450.6	5.8	603.3	4.9		
23.4	23.1	37.0	16.0	84.4	16.2	128.7	13.2	199.6	11.6	273.7	9.2	351.8	7.2	453.3	5.7	612.0	4.8		
24.3	23.0	37.0	16.1	85.4	16.1	129.7	13.2	201.5	11.5	274.6	9.2	352.7	7.2	455.2	5.7	615.7	4.8		
24.3	22.9	37.9	16.2	87.3	16.1	130.7	13.1	203.4	11.5	275.6	9.1	353.7	7.2	456.1	5.6	617.5	4.9		
24.3	22.7	37.9	16.2	88.3	16.1	131.6	13.1	206.3	11.4	276.5	9.1	355.6	7.1	458.0	5.5	622.0	4.8		
24.3	22.6	38.9	16.2	89.2	16.1	132.6	13.1	207.2	11.4	276.5	9.0	358.4	7.1	458.9	5.5	628.4	4.8		
24.3	22.4	39.9	16.2	90.2	16.1	134.5	13.0	208.2	11.4	278.4	9.0	361.2	7.1	461.7	5.5	632.0	4.8		
25.3	22.3	40.9	16.3	92.1	16.0	136.4	13.0	210.1	11.3	280.3	8.9	362.1	7.1	463.5	5.5	638.3	4.7		
26.3	22.2	41.8	16.3	93.1	15.9	138.3	13.0	211.0	11.3	281.2	8.9	364.9	7.1	463.5	5.5	641.9	4.7		
26.3	22.0	42.8	16.3	93.1	15.9	139.3	13.0	212.9	11.3	282.2	8.9	366.8	7.1	468.2	5.5	648.3	4.7		
26.3	21.9	44.7	16.3	94.1	15.8	142.2	13.0	214.8	11.2	284.1	8.8	368.7	7.0	470.9	5.5	658.2	4.6		
26.3	21.8	46.7	16.3	94.1	15.7	142.2	13.0	216.7	11.2	285.9	8.8	371.5	7.0	476.5	5.5	664.5	4.6		
26.3	21.6	47.6	16.2	96.0	15.6	143.1	13.1	218.6	11.1	286.9	8.8	373.3	6.9	479.2	5.5	670.0	4.7		
26.3	21.5	48.6	16.2	97.9	15.5	144.1	13.2	221.5	11.1	287.8	8.7	376.1	6.9	483.9	5.5	675.4	4.6		
27.3	21.4	48.6	16.1	98.9	15.4	146.0	13.2	222.4	11.0	288.8	8.6	380.8	6.9	486.6	5.4	680.8	4.6		
27.3	21.2	48.6	16.1	99.9	15.2	146.0	13.2	224.4	11.0	288.8	8.5	380.8	6.9	490.3	5.4	685.3	4.6		
28.2	21.1	49.6	16.0	99.9	15.0	147.0	13.2	226.3	10.9	289.7	8.5	382.7	6.9	494.0	5.4				

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SHIP OC	CRUISE 122	STATION 14	DATE 12 JUL 1982	EST 1620	LATITUDE 40°17.5'N	LONGITUDE 67°39.1'W	DEPTH 1205	SHIP OC	CRUISE 122	STATION 14	DATE 12 JUL 1982	EST 1620	LATITUDE 40°17.5'N	LONGITUDE 67°39.1'W	DEPTH 1205				
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
399	402.0	6.327	35.029	4.51	0.18	27.534	0.537	1483.	3.2	515	520.1	5.227	34.973	5.17	0.27	27.627	0.603	1480.	0.8
400	403.9	6.302	35.029	4.56	0.18	27.537	0.538	1483.	2.8	535	539.9	5.128	34.967	5.23	0.28	27.634	0.613	1480.	1.0
402	405.9	6.264	35.029	4.60	0.19	27.542	0.540	1482.	2.4	555	560.0	5.041	34.967	5.28	0.28	27.644	0.623	1480.	1.4
404	408.0	6.246	35.030	4.60	0.19	27.545	0.541	1482.	2.3	575	580.0	4.945	34.962	5.33	0.28	27.651	0.633	1480.	1.0
407	410.1	6.230	35.029	4.66	0.19	27.546	0.542	1482.	2.2	595	600.0	4.881	34.963	5.37	0.29	27.660	0.643	1480.	1.0
408	411.9	6.215	35.029	4.71	0.19	27.548	0.543	1482.	2.1	614	620.0	4.788	34.960	5.43	0.29	27.668	0.653	1480.	1.2
410	414.0	6.162	35.025	4.74	0.19	27.551	0.544	1482.	2.1	634	640.0	4.708	34.957	5.48	0.29	27.675	0.662	1480.	0.6
412	416.0	6.138	35.025	4.75	0.20	27.555	0.545	1482.	2.0	654	660.1	4.697	34.956	5.49	0.29	27.675	0.672	1480.	0.3
414	418.0	6.123	35.024	4.74	0.20	27.556	0.547	1482.	2.0	674	680.0	4.679	34.955	5.49	0.29	27.676	0.682	1481.	0.8
416	420.0	6.098	35.025	4.77	0.20	27.560	0.548	1482.	1.9	693	700.0	4.600	34.951	5.51	0.28	27.682	0.691	1481.	1.4
418	422.0	6.094	35.026	4.78	0.21	27.561	0.549	1482.	1.7	713	720.0	4.555	34.950	5.55	0.28	27.687	0.701	1481.	0.8
420	424.0	6.090	35.027	4.81	0.21	27.563	0.550	1482.	1.6	733	740.0	4.506	34.948	5.57	0.28	27.691	0.710	1481.	1.2
422	426.1	6.084	35.028	4.81	0.22	27.564	0.551	1482.	1.5	753	760.0	4.458	34.949	5.60	0.27	27.696	0.720	1481.	0.8
424	427.9	6.076	35.027	4.85	0.22	27.565	0.552	1482.	1.4	773	780.0	4.415	34.947	5.62	0.27	27.700	0.729	1481.	0.6
426	430.0	6.068	35.028	4.85	0.23	27.566	0.554	1482.	1.4	792	800.0	4.411	34.948	5.62	0.27	27.701	0.738	1481.	0.6
428	432.0	6.054	35.027	4.87	0.23	27.567	0.555	1482.	1.4	812	820.0	4.379	34.943	5.62	0.26	27.701	0.748	1482.	0.9
430	434.0	6.042	35.026	4.88	0.23	27.568	0.556	1482.	1.3	832	840.0	4.357	34.947	5.64	0.26	27.706	0.757	1482.	0.9
432	436.0	6.026	35.025	4.90	0.23	27.569	0.557	1482.	1.4	852	859.9	4.330	34.947	5.65	0.25	27.709	0.766	1482.	1.2
434	438.0	6.017	35.025	4.91	0.23	27.571	0.558	1482.	1.4	871	880.0	4.290	34.947	5.66	0.25	27.713	0.775	1482.	-0.3
436	440.0	6.015	35.025	4.90	0.23	27.571	0.559	1482.	1.5	891	900.0	4.274	34.950	5.66	0.25	27.717	0.785	1482.	-1.1
438	442.0	5.992	35.022	4.91	0.24	27.572	0.560	1482.	1.7	911	920.0	4.252	34.944	5.67	0.25	27.715	0.794	1483.	0.8
440	444.0	5.957	35.019	4.92	0.24	27.574	0.562	1482.	1.8	931	940.0	4.245	34.941	5.67	0.25	27.713	0.803	1483.	-0.6
442	446.0	5.925	35.017	4.94	0.24	27.576	0.563	1482.	1.9	950	960.0	4.218	34.946	5.67	0.24	27.721	0.812	1483.	0.8
444	448.0	5.882	35.013	4.93	0.24	27.578	0.564	1482.	1.9	970	980.0	4.201	34.947	5.67	0.24	27.723	0.822	1484.	0.7
446	450.0	5.848	35.011	4.95	0.24	27.581	0.565	1482.	1.9	990	1000.0	4.162	34.947	5.69	0.23	27.727	0.831	1484.	0.5
448	452.0	5.823	35.011	4.95	0.24	27.583	0.566	1481.	1.8	1010	1020.0	4.156	34.947	5.69	0.23	27.728	0.840	1484.	0.6
450	454.0	5.813	35.009	4.95	0.24	27.584	0.567	1481.	1.7	1029	1040.0	4.122	34.947	5.69	0.23	27.731	0.849	1484.	0.7
452	456.1	5.795	35.008	4.94	0.24	27.586	0.568	1481.	1.7	1049	1059.9	4.119	34.947	5.69	0.23	27.731	0.858	1484.	0.6
454	458.0	5.781	35.008	4.97	0.24	27.587	0.569	1481.	1.6	1069	1080.1	4.107	34.946	5.60	0.23	27.732	0.868	1485.	0.5
456	459.9	5.773	35.008	4.98	0.25	27.588	0.570	1481.	1.5	1089	1100.0	4.073	34.947	5.62	0.23	27.736	0.877	1485.	0.8
458	462.1	5.748	35.006	4.97	0.25	27.590	0.572	1481.	1.5	1108	1120.0	4.076	34.946	5.63	0.22	27.735	0.886	1485.	-0.4
460	464.0	5.734	35.006	4.98	0.25	27.591	0.573	1481.	1.4	1128	1140.0	4.076	34.947	5.63	0.22	27.736	0.895	1486.	0.3
462	466.0	5.728	35.007	4.98	0.25	27.593	0.574	1481.	1.4										
464	468.1	5.726	35.006	4.99	0.25	27.593	0.575	1481.	1.4										
466	470.0	5.716	35.006	5.01	0.25	27.593	0.576	1481.	1.4										
468	472.0	5.691	35.003	5.01	0.25	27.594	0.577	1481.	1.3										
470	474.0	5.664	35.001	5.01	0.25	27.596	0.578	1481.	1.3										
472	476.0	5.656	35.001	5.02	0.25	27.597	0.579	1481.	1.4										
474	478.0	5.652	35.001	5.03	0.26	27.598	0.580	1481.	1.6										
476	480.0	5.655	35.003	5.02	0.27	27.599	0.581	1481.	1.8										
478	482.0	5.646	35.002	5.03	0.26	27.599	0.582	1481.	1.8										
480	484.0	5.565	34.993	5.05	0.26	27.602	0.584	1481.	1.9										
482	486.0	5.516	34.991	5.07	0.26	27.607	0.585	1481.	1.9										
484	487.9	5.505	34.992	5.09	0.26	27.609	0.586	1481.	1.9										
486	490.0	5.491	34.991	5.08	0.26	27.610	0.587	1481.	1.8										
488	492.0	5.478	34.991	5.09	0.26	27.611	0.588	1481.	1.7										
490	494.0	5.459	34.989	5.10	0.27	27.612	0.589	1481.	1.6										
492	496.0	5.442	34.988	5.12	0.27	27.613	0.590	1481.	1.7										
494	498.0	5.418	34.986	5.12	0.27	27.615	0.591	1481.	1.8										
496	500.0	5.376	34.982	5.12	0.27	27.616	0.592	1480.	1.8										

STA 15				DAY: 12				TIME: 1832				DAY: 12				TIME: 1832			
DEPTH (m)	TEMP (°C)	DEPTH (m)	TEMP (°C)	DEPTH (m)	TEMP (°C)	DEPTH (m)	TEMP (°C)	DEPTH (m)	TEMP (°C)	DEPTH (m)	TEMP (°C)	DEPTH (m)	TEMP (°C)	DEPTH (m)	TEMP (°C)	DEPTH (m)	TEMP (°C)	DEPTH (m)	TEMP (°C)
1.9	24.2	37.0	17.8	66.0	17.6	105.6	14.3	178.6	12.9	246.2	11.6	302.9	8.2	381.7	6.4	506.0	5.2	688.0	4.9
1.9	24.2	37.9	17.8	67.0	17.6	106.6	14.3	180.5	12.9	247.1	11.6	304.8	8.1	383.6	6.4	507.8	5.2	694.3	4.9
2.9	24.2	38.9	17.7	67.0	17.5	107.6	14.2	182.4	12.9	248.1	11.5	305.8	8.1	386.4	6.4	510.6	5.2	697.9	4.9
3.9	24.2	38.9	17.5	67.0	17.5	108.5	14.1	183.4	12.8	249.0	11.4	306.7	8.0	389.2	6.3	514.2	5.2	701.5	4.9
5.8	24.2	39.9	17.3	69.0	17.5	109.5	14.0	184.3	12.8	250.0	11.4	308.6	7.9	391.1	6.3	517.0	5.2	707.7	4.8
6.8	24.2	39.9	17.1	69.0	17.4	110.5	14.0	185.3	12.7	250.9	11.3	309.5	7.9	393.9	6.3	519.8	5.2	713.1	4.8
7.8	24.1	39.9	17.0	69.0	17.4	113.4	13.9	186.2	12.7	251.9	11.2	311.4	7.9	395.7	6.3	522.5	5.2	715.8	4.8
8.8	24.1	39.9	16.9	69.9	17.3	115.3	13.9	188.1	12.6	252.8	11.2	313.3	7.8	396.7	6.2	525.3	5.2	722.1	4.9
9.7	24.1	39.9	16.8	71.9	17.3	117.2	14.0	189.1	12.5	253.8	11.1	315.2	7.8	399.5	6.2	527.1	5.1	728.4	4.9
10.7	24.0	40.9	16.8	72.8	17.3	119.1	13.9	191.0	12.5	253.8	11.1	318.0	7.8	400.4	6.1	529.9	5.1	731.9	4.8
11.7	24.0	41.8	16.7	72.8	17.2	121.1	13.9	192.9	12.5	254.7	11.0	319.9	7.8	402.3	6.1	532.6	5.0	734.6	4.8
12.7	23.9	41.8	16.7	73.8	17.2	122.0	13.8	194.8	12.5	255.7	10.9	321.8	7.8	404.1	6.1	536.3	5.1	737.3	4.8
13.6	23.8	42.8	16.8	75.7	17.2	123.0	13.7	196.7	12.5	257.6	10.8	323.6	7.7	406.9	6.1	538.1	5.1	740.0	4.8
15.6	23.8	43.8	16.9	77.7	17.2	123.9	13.4	198.6	12.5	257.6	10.7	326.5	7.7	408.8	6.1	540.9	5.1	744.4	4.7
16.6	23.7	43.8	17.0	79.6	17.2	124.9	13.4	199.6	12.4	258.5	10.5	331.2	7.7	413.4	6.0	545.4	5.0	750.7	4.6
18.5	23.7	44.7	16.9	80.6	17.2	126.8	13.4	201.5	12.4	259.5	10.4	333.0	7.7	415.3	6.0	547.3	5.0	752.5	4.6
20.4	23.7	44.7	16.8	81.5	17.1	128.7	13.4	203.4	12.4	260.4	10.3	335.9	7.7	418.1	6.0	549.1	5.0	755.2	4.6
21.4	23.7	45.7	16.7	82.5	17.1	130.7	13.4	205.3	12.4	261.4	10.3	338.7	7.7	420.9	6.0	552.8	5.0	756.9	4.6
23.4	23.7	45.7	16.6	83.5	17.0	133.5	13.4	207.2	12.4	262.3	10.1	340.5	7.7	423.7	5.9	556.4	5.0		
23.4	23.6	45.7	16.5	84.4	17.0	135.5	13.4	207.2	12.4	262.3	10.1	342.4	7.6	426.5	5.9	558.3	5.0		
24.3	23.4	46.7	16.5	85.4	16.8	138.3	13.4	208.2	12.4	263.3	9.9	344.3	7.6	430.2	5.9	561.9	5.0		
24.3	23.2	46.7	16.4	85.4	16.6	140.3	13.3	210.0	12.3	263.3	9.8	345.2	7.5	433.9	5.9	565.6	5.0		
25.3	23.0	47.6	16.3	86.4	16.5	143.1	13.3	212.9	12.3	264.2	9.7	346.2	7.4	435.7	5.9	567.4	5.0		
25.3	22.9	48.6	16.4	86.4	16.4	144.1	13.3	213.9	12.3	266.1	9.5	346.2	7.4	438.5	5.9	571.0	4.9		
25.3	22.8	49.6	16.3	86.4	16.3	146.0	13.3	214.8	12.4	266.1	9.5	348.1	7.3	441.3	5.9	575.6	4.9		
25.3	22.5	49.6	16.4	87.3	16.3	147.0	13.3	215.8	12.4	268.0	9.4	349.9	7.3	443.2	5.8	581.1	5.0		
26.3	21.9	50.6	16.4	88.3	16.2	149.9	13.2	216.7	12.3	268.9	9.4	350.9	7.3	445.9	5.8	584.7	4.9		
26.3	21.5	51.5	16.6	90.2	16.1	152.7	13.2	217.7	12.3	270.8	9.3	351.8	7.2	448.7	5.7	588.4	4.9		
27.3	21.0	52.5	16.5	91.2	16.0	153.7	13.2	218.6	12.3	272.7	9.3	352.7	7.2	452.4	5.7	592.9	4.9		
28.2	20.4	53.5	16.5	91.2	15.8	156.6	13.1	219.6	12.2	274.6	9.3	354.6	7.1	456.1	5.7	597.5	4.9		
28.2	20.1	54.4	16.5	92.1	15.6	156.6	13.1	222.4	12.2	276.5	9.2	355.6	6.9	458.9	5.7	607.5	4.9		
29.2	20.0	54.4	16.6	92.1	15.6	156.6	13.2	226.3	12.1	277.4	9.1	355.6	6.9	462.6	5.7	612.9	4.9		
29.2	20.0	55.4	16.7	92.1	15.5	157.5	13.2	227.2	12.1	278.4	9.0	356.5	6.8	464.5	5.6	618.4	4.9		
30.2	19.9	55.4	16.7	92.1	15.4	160.4	13.2	229.1	12.1	279.3	8.9	358.4	6.7	470.0	5.5	630.2	4.9		
31.1	19.8	56.4	16.8	93.1	15.3	162.3	13.2	229.1	12.0	281.2	8.9	359.3	6.7	472.8	5.5	635.6	4.9		
31.1	19.6	56.4	16.8	93.1	15.2	163.3	13.2	231.0	12.0	283.1	8.9	362.1	6.7	476.5	5.5	642.8	4.9		
32.1	19.6	57.3	16.8	94.1	15.1	164.2	13.1	232.0	11.9	284.1	8.9	364.0	6.6	479.2	5.5	646.5	4.9		
32.1	19.4	58.3	16.8	95.0	15.0	165.2	13.1	233.9	11.9	286.9	8.6	367.7	6.6	482.9	5.5	652.8	4.9		
33.1	19.3	59.3	16.9	95.0	15.0	166.2	13.0	236.7	11.9	288.7	8.5	368.7	6.6	484.8	5.4	656.4	4.9		
34.1	19.0	60.2	17.0	97.0	14.8	167.1	13.0	238.6	11.8	289.7	8.4	369.6	6.5	488.5	5.4	659.1	4.9		
34.1	18.8	61.2	17.0	97.9	14.7	168.1	12.9	240.5	11.8	289.7	8.4	369.6	6.5	492.2	5.4	663.6	4.9		
35.0	18.6	62.2	17.2	98.9	14.6	170.0	12.9	240.5	11.8	291.0	8.4	370.5	6.5	492.2	5.4	663.6	4.9		
35.0	18.4	62.2	17.3	99.9	14.5	170.9	13.0	240.5	11.7	293.5	8.3	371.5	6.5	494.9	5.4	667.2	4.9		
36.0	18.2	62.2	17.5	101.8	14.4	173.8	12.9	242.4	11.6	296.3	8.3	373.3	6.4	496.8	5.3	670.0	4.9		
36.0	18.1	63.1	17.6	102.8	14.3	174.8	12.9	243.4	11.5	299.2	8.2	377.1	6.4	500.4	5.2	679.9	4.8		
37.0	17.9	64.1	17.6	103.7	14.3	176.7	12.9	244.3	11.5	302.0	8.2	378.9	6.4	503.2	5.2	682.6	4.9		

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SHIP	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH
OC	122	16	12 JUL 1982	1802	40°24.1'N	67°39.7'W	635
DEPTH	PRESS	TEMP	SALIN	OXY	ATN	SIGT	DYHT A
m	dbar	°C	psu	ml/l	m ⁻¹	gm/cm ³	10m ² /s ²
198	200.1	11.551	35.434	4.06	0.10	27.012	0.387
200	201.9	11.422	35.422	4.04	0.10	27.027	0.389
202	204.0	11.255	35.411	4.03	0.10	27.049	0.391
204	206.0	11.046	35.393	4.03	0.10	27.074	0.393
206	208.0	10.900	35.384	3.98	0.10	27.093	0.395
208	210.0	10.878	35.384	3.94	0.10	27.097	0.397
210	212.0	10.788	35.376	3.92	0.10	27.107	0.399
212	214.0	10.695	35.367	3.91	0.10	27.117	0.401
214	216.0	10.577	35.354	3.91	0.10	27.128	0.403
216	218.0	10.455	35.344	3.91	0.10	27.142	0.405
218	220.0	10.340	35.334	3.91	0.11	27.154	0.407
220	222.1	10.242	35.327	3.90	0.11	27.166	0.409
222	224.0	10.176	35.321	3.92	0.11	27.172	0.411
224	226.0	10.134	35.318	3.91	0.11	27.177	0.413
226	228.0	10.100	35.316	3.92	0.11	27.182	0.414
228	230.0	10.080	35.314	3.92	0.11	27.184	0.416
230	232.0	10.063	35.311	3.91	0.11	27.184	0.418
232	234.0	9.924	35.295	3.92	0.11	27.195	0.420
234	235.9	9.850	35.290	3.93	0.11	27.204	0.422
236	238.0	9.776	35.286	3.94	0.11	27.214	0.424
238	240.0	9.754	35.285	3.94	0.11	27.217	0.425
240	242.0	9.612	35.267	3.96	0.11	27.227	0.427
242	244.0	9.472	35.258	3.97	0.12	27.243	0.429
244	246.0	9.469	35.262	4.01	0.12	27.247	0.431
246	247.9	9.467	35.262	4.00	0.12	27.247	0.432
248	250.0	9.326	35.242	4.01	0.12	27.255	0.434
250	252.0	9.212	35.238	4.03	0.12	27.270	0.436
252	254.0	9.179	35.236	4.05	0.12	27.275	0.437
254	256.0	9.133	35.234	4.04	0.12	27.277	0.439
256	258.0	9.130	35.232	4.03	0.12	27.279	0.441
258	260.0	9.107	35.231	4.04	0.12	27.282	0.442
260	262.0	9.074	35.228	4.04	0.12	27.285	0.444
262	264.0	8.983	35.219	4.08	0.13	27.293	0.446
264	265.9	8.764	35.206	4.13	0.13	27.318	0.447
266	268.0	8.697	35.204	4.13	0.14	27.326	0.449
268	270.0	8.495	35.176	4.21	0.14	27.337	0.451
270	272.0	8.380	35.181	4.25	0.14	27.359	0.452
272	274.0	8.355	35.182	4.26	0.14	27.363	0.454
274	276.1	8.334	35.181	4.27	0.14	27.365	0.455
276	277.9	8.298	35.178	4.33	0.14	27.368	0.457
278	280.0	8.265	35.177	4.33	0.14	27.373	0.458
280	282.0	8.214	35.173	4.33	0.14	27.377	0.460
282	284.1	8.152	35.167	4.35	0.14	27.382	0.461
284	286.0	7.992	35.151	4.40	0.14	27.394	0.463
286	288.0	7.931	35.153	4.40	0.15	27.402	0.464
288	290.0	7.929	35.152	4.40	0.15	27.405	0.465
290	292.1	7.891	35.149	4.41	0.15	27.408	0.467
291	294.0	7.842	35.147	4.44	0.15	27.413	0.468
294	296.1	7.791	35.142	4.45	0.16	27.417	0.470
295	298.0	7.731	35.138	4.47	0.16	27.423	0.471
SHIP	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH
OC	122	16	12 JUL 1982	1802	40°24.1'N	67°39.7'W	635
DEPTH	PRESS	TEMP	SALIN	OXY	ATN	SIGT	DYHT A
m	dbar	°C	psu	ml/l	m ⁻¹	gm/cm ³	10m ² /s ²
297	300.0	7.664	35.131	4.50	0.16	27.427	0.473
299	302.0	7.456	35.111	4.53	0.16	27.442	0.474
301	304.1	7.415	35.116	4.52	0.16	27.451	0.475
303	306.0	7.411	35.117	4.56	0.16	27.453	0.477
305	308.0	7.408	35.117	4.57	0.16	27.453	0.478
307	310.0	7.392	35.115	4.56	0.16	27.454	0.479
309	312.0	7.378	35.115	4.56	0.16	27.456	0.481
311	314.0	7.375	35.114	4.55	0.16	27.456	0.482
313	316.0	7.361	35.113	4.58	0.17	27.457	0.483
315	318.0	7.330	35.111	4.57	0.17	27.460	0.485
317	320.1	7.314	35.109	4.56	0.17	27.461	0.486
319	322.0	7.215	35.099	4.60	0.17	27.467	0.487
321	324.0	7.094	35.085	4.63	0.17	27.473	0.489
323	326.0	6.977	35.084	4.66	0.17	27.488	0.490
325	328.0	6.939	35.087	4.67	0.18	27.496	0.491
327	330.0	6.936	35.089	4.72	0.18	27.498	0.492
329	332.0	6.919	35.088	4.74	0.18	27.500	0.494
331	334.0	6.857	35.081	4.75	0.18	27.503	0.495
333	335.9	6.822	35.083	4.78	0.18	27.509	0.496
335	338.0	6.818	35.083	4.78	0.19	27.510	0.497
337	340.0	6.810	35.082	4.79	0.19	27.510	0.499
339	342.0	6.804	35.082	4.79	0.19	27.511	0.500
341	344.0	6.793	35.080	4.80	0.19	27.511	0.501
343	346.0	6.792	35.081	4.79	0.19	27.511	0.502
345	348.0	6.775	35.078	4.79	0.19	27.512	0.504
347	350.0	6.758	35.077	4.79	0.19	27.513	0.505
349	352.0	6.730	35.076	4.78	0.19	27.516	0.506
351	354.0	6.710	35.074	4.80	0.19	27.517	0.507
353	356.0	6.689	35.073	4.81	0.19	27.520	0.508
355	358.0	6.686	35.073	4.80	0.20	27.520	0.510
357	360.0	6.686	35.073	4.80	0.20	27.520	0.511
359	362.0	6.687	35.073	4.80	0.20	27.520	0.512
361	364.0	6.686	35.073	4.82	0.20	27.520	0.513
363	365.9	6.687	35.073	4.82	0.20	27.520	0.515
365	368.0	6.684	35.073	4.79	0.20	27.520	0.516
367	370.0	6.681	35.073	4.80	0.21	27.521	0.517
369	372.0	6.681	35.073	4.79	0.21	27.521	0.518
371	374.0	6.680	35.073	4.80	0.21	27.521	0.519
373	376.0	6.669	35.072	4.80	0.21	27.522	0.521
375	378.0	6.664	35.072	4.80	0.22	27.522	0.522
377	380.0	6.662	35.072	4.80	0.22	27.522	0.523
379	382.0	6.658	35.072	4.80	0.22	27.523	0.524
381	384.0	6.643	35.070	4.80	0.22	27.524	0.526
383	386.0	6.615	35.068	4.82	0.22	27.526	0.527
385	388.0	6.508	35.058	4.84	0.22	27.532	0.528
387	390.0	6.415	35.056	4.87	0.22	27.543	0.529
388	391.3	6.342	35.045	4.90	0.22	27.544	0.530
389	392.0	6.312	35.047	4.92	0.22	27.549	0.530
390	393.0	6.308	35.051	4.91	0.22	27.553	0.531
391	394.0	6.315	35.052	4.91	0.22	27.553	0.532

SHIP	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH		
OC	122	16	12 JUL 1982	1802	40°24.1'N	67°39.7'W	635		
DEPTH	PRESS	TEMP	SALIN	OXY	ATN	SIGT	DYHT	S SPD	DEPTH
m	dbar	°C	psu	ml/l	m ⁻¹	gm/cm ³	10m ² /s ²	m/s	N
392	395.0	6.312	35.051	4.91	0.23	27.552	0.532	1483.	2.0
393	396.0	6.289	35.048	4.92	0.23	27.553	0.533	1482.	1.6
394	397.0	6.282	35.049	4.93	0.23	27.555	0.533	1482.	1.5
395	398.0	6.280	35.049	4.95	0.23	27.556	0.534	1482.	1.5
396	399.0	6.277	35.050	4.97	0.23	27.556	0.535	1482.	1.5
397	400.0	6.276	35.049	4.95	0.23	27.556	0.535	1482.	1.5
397	400.6	6.277	35.051	4.95	0.23	27.558	0.535	1482.	1.5
SHIP	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH		
OC	122	17	12 JUL 1982	1903	40°25.8'N	67°43.0'W	139		
DEPTH	PRESS	TEMP	SALIN	OXY	ATN	SIGT	DYHT	S SPD	DEPTH
m	dbar	°C	psu	ml/l	m ⁻¹	gm/cm ³	10m ² /s ²	m/s	N
1	0.9	23.744	35.186	4.69	0.17	23.859	0.000	1532.	7.1
2	1.7	23.740	35.187	4.72	0.17	23.861	0.003	1532.	7.1
4	4.1	23.750	35.187	4.69	0.17	23.858	0.013	1532.	7.1
6	5.9	23.753	35.186	4.69	0.17	23.857	0.020	1532.	7.1
8	8.0	23.737	35.184	4.69	0.17	23.860	0.029	1532.	7.1
10	10.0	23.665	35.179	4.68	0.17	23.878	0.037	1531.	8.5
12	12.0	23.292	35.144	4.74	0.17	23.960	0.045	1531.	9.9
14	14.0	23.106	35.175	4.80	0.17	24.037	0.052	1530.	10.9
16	16.0	22.771	35.175	4.88	0.17	24.134	0.060	1529.	11.4
18	18.0	21.927	34.992	5.03	0.18	24.233	0.067	1527.	11.5
20	20.0	21.480	34.949	5.10	0.18	24.325	0.075	1526.	11.0
22	22.0	20.856	34.839	5.25	0.18	24.412	0.082	1524.	10.6
24	23.9	20.669	34.833	5.29	0.18	24.458	0.089	1524.	10.6
26	26.0	20.510	34.849	5.31	0.19	24.512	0.096	1523.	10.5
28	28.0	20.494	34.894	5.31	0.19	24.551	0.103	1523.	10.5
30	30.1	20.676	35.058	5.28	0.19	24.628	0.110	1524.	10.7
32	31.9	21.153	35.412	5.18	0.21	24.768	0.116	1526.	11.2
34	34.0	21.262	35.514	5.14	0.21	24.815	0.122	1526.	11.5
36	36.0	21.036	35.516	5.17	0.22	24.879	0.128	1525.	11.5
38	38.0	20.601	35.488	5.20	0.22	24.975	0.134	1524.	11.3
40	40.1	20.242	35.507	5.23	0.23	25.086	0.140	1523.	11.3
42	41.9	20.021	35.525	5.26	0.24	25.158	0.146	1523.	11.6
44	44.0	19.911	35.550	5.24	0.25	25.206	0.152	1523.	11.9
46	46.0	19.662	35.579	5.28	0.26	25.294	0.157	1522.	12.1
48	47.9	19.784	35.772	5.23	0.28	25.409	0.162	1523.	12.1
50	50.0	19.656	35.843	5.25	0.29	25.497	0.167	1522.	11.9
52	52.0	18.916	35.781	5.36	0.32	25.641	0.172	1520.	11.5
54	54.0	18.558	35.787	5.37	0.35	25.736	0.177	1519.	10.8
56	56.0	18.387	35.774	5.34	0.35	25.770	0.181	1519.	9.7
58	58.0	18.199	35.761	5.33	0.34	25.807	0.186	1518.	8.8
60	60.0	17.999	35.740	5.32	0.34	25.841	0.190	1518.	8.0
62	62.0	17.763	35.715	5.31	0.34	25.880	0.194	1517.	8.1
64	64.0	17.655	35.709	5.26	0.33	25.901	0.199	1517.	8.8
65	66.0	17.396	35.676	5.24	0.32	25.939	0.203	1516.	9.4
68	68.0	16.919	35.617	5.26	0.30	26.008	0.207	1514.	9.7
69	70.0	16.297	35.532	5.31	0.27	26.090	0.211	1512.	10.0
71	72.0	15.656	35.474	5.31	0.23	26.192	0.215	1510.	10.2
73	74.0	15.355	35.444	5.21	0.21	26.236	0.218	1510.	10.0
75	76.0	15.101	35.431	5.14	0.19	26.283	0.222	1509.	9.4
77	78.0	14.578	35.367	5.17	0.16	26.348	0.225	1507.	8.6
79	80.0	14.316	35.352	5.11	0.15	26.393	0.229	1506.	7.7
81	82.0	14.091	35.340	5.08	0.14	26.431	0.232	1506.	7.0
83	84.0	13.922	35.327	5.00	0.14	26.457	0.235	1505.	6.1
85	86.0	13.850	35.318	4.98	0.14	26.465	0.238	1505.	5.4
87	88.0	13.807	35.317	4.97	0.13	26.474	0.241	1505.	5.3
89	89.9	13.768	35.316	4.92	0.13	26.481	0.244	1505.	5.6
91	92.0	13.725	35.312	4.88	0.13	26.487	0.248	1504.	6.3
93	94.0	13.501	35.303	4.91	0.13	26.526	0.251	1504.	7.2
95	95.9	13.324	35.309	4.90	0.12	26.567	0.254	1503.	7.8
97	98.0	13.146	35.313	4.86	0.12	26.607	0.257	1503.	8.2

SHIP	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH		
OC	122	17	12 JUL 1982	1903	40°25.8'N	67°43.0'W	139		
DEPTH	PRESS	TEMP	SALIN	OXY	ATN	SIGT	DYHT A	S SPD	DEPTH
m	dbar	°C	psu	ml/l	m ⁻¹	gm/cm ³	10m ² /s ²	m/s	N
99	100.0	12.902	35.319	4.83	0.11	26.661	0.260	1502.	8.3
101	101.9	12.714	35.356	4.80	0.11	26.726	0.262	1501.	7.9
103	104.0	12.675	35.389	4.67	0.11	26.760	0.265	1501.	7.5
105	106.0	12.590	35.404	4.62	0.11	26.788	0.267	1501.	7.1
107	108.0	12.594	35.436	4.56	0.11	26.812	0.270	1501.	6.5
109	110.1	12.577	35.444	4.51	0.10	26.822	0.273	1501.	6.0
111	111.9	12.471	35.440	4.48	0.10	26.840	0.275	1501.	5.6
113	114.0	12.391	35.474	4.43	0.10	26.882	0.277	1501.	5.2
115	116.0	12.339	35.484	4.40	0.10	26.900	0.280	1500.	4.9
117	118.0	12.323	35.486	4.36	0.11	26.905	0.282	1500.	4.6
119	120.0	12.319	35.489	4.34	0.11	26.907	0.284	1500.	3.9
120	121.3	12.318	35.490	4.33	0.11	26.909	0.286	1500.	2.7
121	122.0	12.316	35.491	4.31	0.11	26.910	0.287	1500.	2.0
122	123.0	12.314	35.492	4.31	0.11	26.911	0.288	1501.	1.7
123	124.0	12.313	35.492	4.31	0.11	26.912	0.289	1501.	1.4
124	125.0	12.312	35.493	4.31	0.11	26.912	0.290	1501.	1.3
125	126.0	12.312	35.493	4.29	0.11	26.912	0.291	1501.	1.1
126	127.0	12.312	35.493	4.29	0.11	26.912	0.293	1501.	1.0
127	128.0	12.312	35.494	4.30	0.11	26.913	0.294	1501.	0.8
128	129.0	12.311	35.494	4.30	0.11	26.913	0.295	1501.	0.7
129	130.0	12.310	35.494	4.29	0.11	26.913	0.296	1501.	0.4
130	131.0	12.311	35.494	4.28	0.12	26.913	0.297	1501.	-0.1
131	132.0	12.313	35.494	4.29	0.11	26.913	0.298	1501.	-0.5
132	133.0	12.313	35.494	4.30	0.11	26.913	0.300	1501.	-0.6
133	134.0	12.314	35.494	4.31	0.11	26.913	0.301	1501.	-0.7
134	135.0	12.315	35.494	4.30	0.11	26.913	0.302	1501.	-0.7
135	136.0	12.315	35.494	4.28	0.11	26.912	0.303	1501.	-0.7
136	137.0	12.315	35.494	4.28	0.11	26.912	0.304	1501.	-0.7
137	138.1	12.317	35.494	4.23	0.12	26.912	0.305	1501.	-0.7
138	138.8	12.316	35.493	4.17	0.12	26.912	0.306	1501.	-0.7

SHIP	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH		
OC	122	18	12 JUL 1982	1930	40°26.4'N	67°41.1'W	140		
DEPTH	PRESS	TEMP	SALIN	OXY	ATN	SIGT	DYHT A	S SPD	DEPTH
m	dbar	°C	psu	ml/l	m ⁻¹	gm/cm ³	10m ² /s ²	m/s	N
1	0.9	23.777	35.178	4.75	0.16	23.844	0.000	1532.	8.4
2	2.0	23.790	35.179	4.62	0.16	23.841	0.004	1532.	8.4
4	4.1	23.798	35.180	4.62	0.16	23.839	0.013	1532.	8.4
6	5.9	23.718	35.164	4.69	0.16	23.850	0.020	1532.	8.4
8	7.9	23.398	35.118	4.76	0.16	23.909	0.029	1531.	8.4
10	10.0	23.080	35.103	4.81	0.17	23.990	0.036	1530.	9.0
12	12.0	22.860	35.099	4.86	0.17	24.051	0.045	1529.	10.0
14	14.0	22.770	35.123	4.85	0.17	24.094	0.052	1529.	10.7
16	16.0	22.611	35.141	4.88	0.17	24.154	0.060	1529.	11.6
18	18.0	22.528	35.198	4.91	0.18	24.221	0.067	1529.	12.0
20	20.0	22.342	35.315	4.95	0.19	24.362	0.075	1528.	12.2
22	22.0	21.910	35.294	5.03	0.21	24.468	0.081	1527.	12.2
24	24.0	21.507	35.366	5.06	0.22	24.635	0.088	1526.	12.1
26	26.0	21.393	35.393	5.09	0.22	24.687	0.095	1526.	12.0
28	27.9	21.375	35.412	5.10	0.22	24.706	0.101	1526.	11.8
30	30.0	21.261	35.484	5.12	0.22	24.793	0.108	1526.	12.1
32	32.0	21.077	35.541	5.14	0.22	24.886	0.114	1526.	12.1
34	34.0	20.737	35.579	5.17	0.22	25.007	0.120	1525.	12.5
36	36.0	20.319	35.593	5.22	0.22	25.131	0.126	1524.	12.7
38	38.0	19.876	35.628	5.23	0.24	25.275	0.131	1522.	12.5
40	40.0	19.752	35.640	5.24	0.25	25.317	0.137	1522.	11.9
42	42.0	19.410	35.626	5.31	0.26	25.396	0.142	1521.	11.1
44	44.0	19.009	35.639	5.36	0.28	25.508	0.147	1520.	10.2
46	46.0	18.756	35.638	5.37	0.30	25.572	0.152	1519.	9.4
48	48.0	18.732	35.658	5.35	0.30	25.593	0.157	1519.	9.6
50	50.0	18.649	35.671	5.34	0.31	25.625	0.161	1519.	9.7
52	52.0	18.535	35.689	5.31	0.31	25.667	0.166	1519.	9.7
54	54.0	18.409	35.712	5.29	0.31	25.717	0.171	1519.	9.8
56	56.0	17.883	35.713	5.33	0.31	25.848	0.175	1517.	10.0
58	58.0	17.410	35.688	5.32	0.28	25.945	0.179	1516.	10.0
60	60.0	17.255	35.675	5.22	0.28	25.972	0.183	1515.	9.5
61	62.0	17.128	35.660	5.18	0.27	25.991	0.187	1515.	8.6
64	64.0	16.659	35.603	5.21	0.26	26.059	0.192	1514.	7.3
65	66.0	16.468	35.598	5.18	0.25	26.100	0.195	1513.	6.3
68	68.0	16.424	35.599	5.14	0.25	26.111	0.199	1513.	5.7
69	69.9	16.402	35.599	5.11	0.25	26.116	0.203	1513.	5.0
71	72.0	16.359	35.598	5.09	0.24	26.125	0.207	1513.	4.1
73	74.0	16.316	35.595	5.08	0.24	26.133	0.211	1513.	4.2
75	76.0	16.306	35.594	5.07	0.24	26.135	0.214	1513.	5.2
77	78.0	16.208	35.586	5.06	0.24	26.151	0.218	1512.	6.0
79	80.0	16.132	35.578	5.04	0.23	26.163	0.222	1512.	6.6
81	81.9	15.820	35.543	5.05	0.22	26.207	0.226	1511.	7.2
83	84.1	15.327	35.482	5.06	0.20	26.272	0.229	1510.	7.6
85	86.0	15.069	35.451	5.02	0.18	26.305	0.233	1509.	8.1
87	88.0	14.817	35.409	5.00	0.18	26.328	0.236	1508.	8.6
89	90.0	14.417	35.353	5.00	0.16	26.372	0.240	1507.	9.0
91	92.0	14.193	35.332	4.95	0.15	26.403	0.243	1506.	9.1
93	94.0	13.661	35.296	4.98	0.13	26.487	0.246	1504.	9.2
95	96.0	13.272	35.297	4.96	0.12	26.568	0.249	1503.	8.9
97	98.0	13.006	35.310	4.88	0.11	26.632	0.252	1502.	8.3

SHIP	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH				
OC	122	18	12 JUL 1982	1930	40°26.4'N	67°41.1'W	140				
DEPTH	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH				
m	122	18	12 JUL 1982	1930	40°26.4'N	67°41.1'W	140				
99	100.1	12.909	35.323	4.80	0.11	26.662	0.255	1502.	7.4	N	cph
101	102.0	12.875	35.328	4.74	0.11	26.673	0.258	1502.	6.2	N	cph
103	104.0	12.854	35.329	4.68	0.11	26.678	0.260	1502.	5.2	N	cph
105	106.0	12.801	35.335	4.67	0.11	26.693	0.263	1502.	4.7	N	cph
107	107.9	12.782	35.342	4.65	0.11	26.702	0.266	1502.	4.7	N	cph
109	110.0	12.746	35.346	4.63	0.11	26.713	0.269	1502.	4.9	N	cph
111	112.0	12.686	35.359	4.63	0.11	26.735	0.271	1501.	4.9	N	cph
113	114.0	12.654	35.379	4.63	0.11	26.756	0.274	1501.	4.8	N	cph
115	116.0	12.608	35.389	4.59	0.11	26.773	0.276	1501.	4.8	N	cph
117	118.0	12.656	35.417	4.54	0.11	26.785	0.279	1501.	4.7	N	cph
119	120.0	12.763	35.452	4.47	0.10	26.791	0.282	1502.	4.5	N	cph
120	121.3	12.809	35.470	4.47	0.10	26.796	0.283	1502.	4.6	N	cph
121	122.0	12.832	35.484	4.48	0.09	26.802	0.284	1502.	5.0	N	cph
122	123.0	12.859	35.497	4.47	0.09	26.807	0.285	1502.	5.7	N	cph
123	124.0	12.788	35.503	4.46	0.09	26.826	0.287	1502.	6.3	N	cph
124	125.0	12.736	35.508	4.46	0.09	26.840	0.288	1502.	6.4	N	cph
125	126.0	12.583	35.493	4.46	0.09	26.859	0.289	1501.	6.3	N	cph
126	127.0	12.458	35.479	4.46	0.10	26.873	0.290	1501.	5.9	N	cph
127	128.0	12.422	35.482	4.45	0.11	26.882	0.291	1501.	5.3	N	cph
128	129.0	12.405	35.482	4.42	0.11	26.886	0.293	1501.	4.6	N	cph
129	130.0	12.370	35.479	4.40	0.11	26.890	0.294	1501.	3.8	N	cph
130	131.0	12.343	35.479	4.39	0.12	26.896	0.295	1501.	3.3	N	cph
131	132.0	12.337	35.481	4.36	0.13	26.898	0.296	1501.	3.2	N	cph
132	133.1	12.326	35.478	4.32	0.12	26.898	0.297	1501.	3.3	N	cph
133	134.0	12.280	35.466	4.33	0.12	26.897	0.299	1501.	3.3	N	cph
134	135.0	12.219	35.461	4.38	0.12	26.905	0.300	1500.	3.3	N	cph
135	136.0	12.221	35.467	4.22	0.12	26.910	0.301	1500.	3.3	N	cph
136	136.9	12.188	35.466	4.16	0.13	26.915	0.302	1500.	3.3	N	cph

SHIP OC	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH		
185	122	19	12 JUL 1982	1953	40°26.5'N	67°40.7'W	185		
DEPTH	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH		
m	122	19	12 JUL 1982	1953	40°26.5'N	67°40.7'W	185		
99	100.0	12.890	35.331	4.76	0.11	26.672	0.254	1502.	5.3
101	102.0	12.838	35.332	4.73	0.11	26.683	0.257	1502.	4.5
103	104.0	12.808	35.330	4.74	0.11	26.688	0.260	1502.	3.7
105	106.0	12.793	35.336	4.68	0.11	26.696	0.263	1502.	3.3
107	108.0	12.763	35.337	4.65	0.11	26.702	0.265	1502.	3.1
109	110.0	12.748	35.339	4.64	0.11	26.707	0.268	1502.	3.0
111	112.0	12.764	35.346	4.65	0.11	26.709	0.271	1502.	2.9
113	114.0	12.748	35.350	4.66	0.11	26.715	0.273	1502.	2.7
115	116.0	12.752	35.362	4.64	0.11	26.724	0.276	1502.	2.5
117	118.0	12.794	35.378	4.63	0.11	26.728	0.279	1502.	2.2
119	120.0	12.842	35.393	4.61	0.11	26.730	0.281	1502.	2.1
121	122.0	12.861	35.396	4.61	0.10	26.729	0.284	1502.	2.3
123	124.0	12.879	35.402	4.59	0.10	26.729	0.287	1502.	2.8
125	126.0	12.895	35.407	4.57	0.10	26.730	0.289	1502.	3.3
127	128.0	12.959	35.431	4.58	0.10	26.736	0.292	1503.	3.7
129	129.9	13.005	35.468	4.56	0.10	26.755	0.295	1503.	4.0
131	132.0	12.970	35.487	4.55	0.09	26.777	0.297	1503.	4.2
133	134.0	12.970	35.493	4.52	0.09	26.782	0.300	1503.	4.2
135	136.0	12.986	35.504	4.50	0.09	26.787	0.303	1503.	4.1
137	138.0	12.973	35.518	4.47	0.09	26.800	0.305	1503.	4.0
139	140.0	12.933	35.517	4.47	0.09	26.808	0.308	1503.	4.1
141	142.0	12.867	35.510	4.45	0.09	26.815	0.310	1503.	4.4
143	144.0	12.758	35.501	4.43	0.09	26.831	0.313	1502.	4.6
145	146.0	12.676	35.496	4.41	0.09	26.843	0.315	1502.	4.7
147	148.0	12.525	35.478	4.41	0.10	26.859	0.318	1502.	4.8
149	150.0	12.375	35.466	4.40	0.11	26.879	0.320	1501.	4.7
151	152.0	12.246	35.456	4.37	0.11	26.896	0.322	1501.	4.5
153	154.0	12.149	35.442	4.34	0.11	26.905	0.325	1500.	4.2
155	156.0	12.049	35.429	4.31	0.12	26.914	0.327	1500.	3.9
157	158.0	11.985	35.424	4.29	0.12	26.922	0.330	1500.	3.5
159	160.0	11.943	35.420	4.28	0.13	26.927	0.332	1500.	3.2
161	161.9	11.920	35.420	4.28	0.13	26.931	0.334	1500.	3.0
163	164.0	11.878	35.420	4.24	0.13	26.939	0.336	1500.	2.8
165	166.0	11.859	35.419	4.22	0.12	26.942	0.339	1500.	2.8
167	168.0	11.846	35.419	4.23	0.12	26.945	0.341	1500.	2.8
169	170.0	11.815	35.418	4.23	0.12	26.950	0.343	1499.	2.8
170	171.2	11.792	35.417	4.22	0.12	26.954	0.345	1499.	2.7
171	172.0	11.776	35.418	4.20	0.13	26.957	0.345	1499.	2.9
172	173.0	11.760	35.417	4.19	0.12	26.960	0.347	1499.	3.0
173	174.0	11.744	35.415	4.21	0.12	26.961	0.348	1499.	3.0
174	175.0	11.729	35.415	4.22	0.12	26.963	0.349	1499.	3.2
175	176.0	11.722	35.418	4.17	0.12	26.968	0.350	1499.	3.3
177	178.0	11.712	35.419	4.13	0.12	26.970	0.351	1499.	3.5
179	179.0	11.699	35.419	4.09	0.12	26.973	0.352	1499.	3.6
181	180.0	11.621	35.411	4.13	0.11	26.981	0.353	1499.	3.5
183	181.0	11.617	35.416	4.11	0.12	26.986	0.355	1499.	3.3
185	182.0	11.599	35.415	4.09	0.11	26.989	0.356	1499.	3.0
187	183.0	11.592	35.415	4.13	0.12	26.990	0.357	1499.	2.6
189	184.0	11.585	35.417	4.13	0.12	26.991	0.358	1499.	2.6
191	185.0	11.585	35.415	4.13	0.12	26.991	0.359	1499.	2.6

SHIP	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH	SHIP	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH	SHIP	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH
OC	122	22	12 JUL 1982	2027	40°26.6'N	67°40.1'W	531	OC	122	22	12 JUL 1982	2027	40°26.6'N	67°40.1'W	531	OC	122	22	12 JUL 1982	2027	40°26.6'N	67°40.1'W	531
DEPTH								DEPTH								DEPTH							
m								m								m							
99	100.0	13.353	35.452	4.65	0.14	26.672	0.244	1504.	2.6	198	199.9	11.590	35.438	4.01	0.14	27.008	0.366	1499.	2.4				
101	101.9	13.342	35.453	4.64	0.14	26.675	0.247	1504.	2.6	200	202.0	11.571	35.437	3.99	0.14	27.011	0.369	1499.	2.2				
103	104.0	13.326	35.455	4.62	0.14	26.679	0.250	1504.	2.6	202	204.0	11.567	35.438	3.99	0.14	27.012	0.371	1499.	2.0				
105	105.9	13.311	35.456	4.62	0.14	26.684	0.252	1504.	2.7	204	205.9	11.553	35.437	3.99	0.14	27.014	0.373	1499.	1.8				
107	108.0	13.296	35.457	4.61	0.14	26.688	0.255	1503.	2.8	206	208.0	11.543	35.437	3.99	0.14	27.016	0.375	1499.	1.5				
109	110.0	13.276	35.458	4.61	0.14	26.692	0.258	1503.	2.8	208	210.0	11.540	35.437	3.98	0.14	27.017	0.377	1499.	1.5				
111	112.1	13.248	35.460	4.59	0.14	26.700	0.261	1503.	2.9	210	212.0	11.534	35.438	3.98	0.14	27.019	0.380	1499.	2.4				
113	113.9	13.233	35.461	4.58	0.13	26.704	0.263	1503.	3.5	212	214.0	11.534	35.438	3.96	0.14	27.019	0.382	1499.	2.8				
115	116.0	13.211	35.463	4.55	0.14	26.710	0.266	1503.	4.3	214	215.9	11.527	35.435	3.95	0.14	27.018	0.384	1499.	3.2				
117	118.0	13.189	35.464	4.51	0.13	26.715	0.269	1503.	4.7	216	218.1	11.445	35.424	3.94	0.14	27.024	0.386	1499.	3.6				
119	120.1	13.150	35.464	4.47	0.13	26.723	0.271	1503.	4.9	218	219.9	11.280	35.423	3.96	0.14	27.055	0.388	1498.	3.8				
121	122.0	13.094	35.473	4.46	0.13	26.761	0.274	1503.	4.9	220	222.0	11.268	35.421	3.94	0.14	27.055	0.390	1498.	3.8				
123	124.1	12.892	35.488	4.46	0.13	26.793	0.277	1502.	4.7	222	224.0	11.195	35.414	3.93	0.14	27.063	0.392	1498.	3.6				
125	126.0	12.881	35.491	4.46	0.13	26.798	0.279	1502.	4.3	224	225.9	11.123	35.410	3.94	0.14	27.073	0.394	1498.	3.2				
127	128.0	12.874	35.494	4.45	0.13	26.802	0.282	1502.	3.7	226	228.0	11.090	35.407	3.92	0.14	27.077	0.397	1498.	2.5				
129	129.9	12.871	35.495	4.43	0.13	26.803	0.284	1502.	2.9	228	230.0	11.070	35.407	3.90	0.14	27.080	0.399	1498.	2.5				
131	132.1	12.872	35.495	4.42	0.13	26.803	0.287	1503.	2.5	230	232.0	11.065	35.407	3.89	0.14	27.081	0.401	1498.	2.4				
133	134.0	12.860	35.493	4.41	0.13	26.804	0.289	1503.	2.7	232	234.0	11.061	35.407	3.90	0.14	27.082	0.403	1498.	2.3				
135	136.0	12.804	35.490	4.40	0.13	26.813	0.292	1502.	2.9	234	235.9	11.036	35.401	3.91	0.14	27.082	0.405	1498.	2.5				
137	138.1	12.755	35.492	4.39	0.14	26.824	0.294	1502.	3.2	236	238.1	10.972	35.396	3.91	0.14	27.090	0.407	1498.	3.0				
139	140.0	12.742	35.491	4.37	0.14	26.826	0.297	1502.	3.4	238	240.0	10.930	35.396	3.93	0.14	27.097	0.409	1498.	3.3				
141	142.0	12.665	35.484	4.36	0.14	26.836	0.299	1502.	3.3	240	242.0	10.878	35.390	3.95	0.14	27.102	0.411	1497.	4.0				
143	144.0	12.618	35.478	4.35	0.14	26.841	0.302	1502.	3.2	242	244.0	10.798	35.380	3.96	0.14	27.109	0.413	1497.	4.3				
145	146.0	12.551	35.475	4.35	0.14	26.852	0.304	1502.	3.1	244	246.0	10.636	35.367	3.99	0.14	27.128	0.415	1497.	4.5				
147	148.0	12.529	35.476	4.34	0.14	26.856	0.307	1502.	3.0	246	248.1	10.586	35.355	3.99	0.15	27.127	0.417	1496.	4.6				
149	150.0	12.520	35.475	4.33	0.14	26.857	0.309	1502.	3.0	248	250.0	10.291	35.341	4.04	0.15	27.168	0.419	1495.	4.5				
151	152.0	12.477	35.472	4.32	0.14	26.864	0.312	1502.	3.2	250	252.1	10.207	35.325	4.05	0.15	27.171	0.421	1495.	4.3				
153	154.0	12.442	35.471	4.29	0.15	26.870	0.314	1501.	3.4	252	254.0	10.134	35.324	4.07	0.15	27.182	0.423	1495.	4.0				
155	156.1	12.411	35.467	4.27	0.15	26.872	0.316	1501.	3.6	254	256.0	10.105	35.322	4.07	0.16	27.186	0.424	1495.	3.7				
157	158.0	12.300	35.455	4.26	0.15	26.885	0.319	1501.	3.7	256	258.0	10.065	35.316	4.08	0.16	27.188	0.426	1495.	3.1				
159	160.0	12.151	35.439	4.25	0.16	26.901	0.321	1500.	3.7	258	259.9	9.980	35.310	4.09	0.16	27.198	0.428	1494.	2.9				
161	162.0	12.067	35.430	4.25	0.16	26.911	0.324	1500.	3.6	260	262.0	9.919	35.306	4.10	0.16	27.205	0.430	1494.	2.7				
163	164.0	12.041	35.428	4.22	0.16	26.915	0.326	1500.	3.6	262	264.0	9.896	35.304	4.11	0.16	27.208	0.432	1494.	2.5				
165	166.1	12.018	35.425	4.20	0.16	26.916	0.328	1500.	3.4	264	266.0	9.874	35.304	4.11	0.16	27.211	0.434	1494.	2.4				
166	167.8	11.976	35.426	4.19	0.16	26.925	0.330	1500.	3.1	266	268.0	9.865	35.303	4.12	0.16	27.212	0.435	1494.	2.9				
169	170.0	11.957	35.432	4.17	0.16	26.933	0.333	1500.	3.0	268	269.9	9.848	35.302	4.14	0.16	27.214	0.437	1494.	3.3				
171	172.1	11.930	35.437	4.16	0.16	26.942	0.335	1500.	2.8	270	272.0	9.824	35.297	4.13	0.16	27.214	0.439	1494.	3.6				
173	174.1	11.920	35.441	4.16	0.15	26.947	0.338	1500.	2.6	272	274.1	9.696	35.281	4.14	0.17	27.224	0.441	1494.	3.8				
174	175.9	11.920	35.441	4.15	0.15	26.947	0.340	1500.	2.3	274	276.0	9.457	35.269	4.18	0.17	27.254	0.443	1493.	3.8				
177	178.0	11.916	35.440	4.14	0.15	26.948	0.342	1500.	2.4	276	278.0	9.409	35.267	4.19	0.17	27.261	0.444	1493.	3.8				
179	180.1	11.909	35.440	4.12	0.15	26.949	0.344	1500.	2.4	278	280.0	9.383	35.265	4.19	0.17	27.264	0.446	1493.	3.9				
180	181.9	11.899	35.440	4.10	0.15	26.951	0.346	1500.	2.5	280	282.0	9.349	35.261	4.18	0.17	27.266	0.448	1492.	3.7				
183	184.0	11.866	35.443	4.09	0.15	26.960	0.349	1500.	2.9	282	284.2	9.287	35.256	4.20	0.17	27.273	0.450	1492.	3.3				
185	186.1	11.823	35.445	4.08	0.15	26.969	0.351	1500.	3.2	284	286.9	9.211	35.250	4.22	0.17	27.280	0.451	1492.	3.3				
186	188.0	11.810	35.443	4.07	0.15	26.971	0.353	1500.	3.3	286	288.0	9.058	35.240	4.23	0.17	27.297	0.453	1491.	3.1				
189	190.1	11.766	35.439	4.05	0.15	26.975	0.356	1500.	3.2	288	290.0	9.013	35.238	4.24	0.17	27.302	0.454	1491.	2.9				
190	192.0	11.699	35.440	4.04	0.14	26.989	0.358	1499.	3.1	290	292.1	9.017	35.239	4.24	0.17	27.304	0.456	1491.	2.7				
192	194.0	11.668	35.440	4.04	0.14	26.995	0.360	1499.	3.0	292	293.9	9.012	35.237	4.26	0.17	27.302	0.458	1491.	2.5				
194	196.0	11.646	35.439	4.02	0.14	26.998	0.362	1499.	2.9	294	295.9	9.007	35.237	4.27	0.17	27.303	0.459	1491.	2.5				
196	198.1	11.624	35.438	4.01	0.14	27.001	0.365	1499.	2.7	296	298.0	8.967	35.232	4.27	0.17	27.306	0.461	1491.	3.2				

SHIP	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH
OC	122	22	12 JUL 1982	2027	40°26.6'N	67°40.1'W	531
DEPTH	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH
m	dbar	°C	psu	ml/l	ATN m ⁻¹	SIGT gm/cm ³	N
298	300.1	8.874	35.226	4.29	0.17	27.315	3.6
299	302.0	8.832	35.221	4.32	0.17	27.319	3.9
301	304.0	8.687	35.211	4.34	0.17	27.334	3.9
303	306.0	8.483	35.200	4.37	0.18	27.357	3.7
305	308.0	8.461	35.199	4.38	0.18	27.360	3.5
307	310.0	8.425	35.197	4.38	0.18	27.364	3.3
309	312.0	8.422	35.197	4.39	0.18	27.364	2.9
311	314.0	8.393	35.193	4.40	0.18	27.365	2.6
313	316.0	8.302	35.186	4.41	0.18	27.374	2.7
315	318.0	8.232	35.183	4.42	0.18	27.383	2.8
317	320.0	8.220	35.182	4.42	0.18	27.384	2.8
319	322.0	8.190	35.179	4.43	0.18	27.386	2.7
321	324.0	8.129	35.174	4.43	0.18	27.391	2.6
323	326.0	8.078	35.172	4.44	0.18	27.398	2.5
325	328.0	8.050	35.169	4.45	0.18	27.400	2.5
327	330.0	8.008	35.166	4.45	0.18	27.403	2.5
329	332.0	7.968	35.165	4.45	0.18	27.409	2.7
331	334.0	7.964	35.163	4.45	0.18	27.408	3.1
333	336.1	7.896	35.156	4.50	0.18	27.413	3.4
335	338.0	7.816	35.149	4.54	0.18	27.419	3.7
337	339.9	7.659	35.136	4.56	0.19	27.432	3.7
339	342.1	7.536	35.134	4.59	0.18	27.448	3.6
341	343.9	7.451	35.127	4.60	0.19	27.455	3.4
343	346.0	7.406	35.130	4.63	0.19	27.464	3.2
345	347.9	7.456	35.130	4.65	0.18	27.457	3.0
347	350.0	7.391	35.126	4.69	0.19	27.462	3.2
349	352.0	7.357	35.120	4.71	0.19	27.463	3.8
351	354.0	7.190	35.109	4.75	0.19	27.478	4.2
353	356.0	7.105	35.099	4.79	0.19	27.483	4.5
355	358.0	6.810	35.081	4.84	0.19	27.509	4.5
357	360.0	6.620	35.078	4.88	0.20	27.533	4.3
359	362.0	6.603	35.074	4.87	0.20	27.532	3.9
361	364.1	6.520	35.070	4.91	0.20	27.540	3.4
363	365.9	6.498	35.070	4.92	0.20	27.543	2.7
365	368.0	6.483	35.066	4.91	0.19	27.542	2.1
367	370.0	6.437	35.065	4.91	0.19	27.547	1.9
369	372.0	6.420	35.065	4.92	0.19	27.549	1.6
371	374.1	6.408	35.064	4.93	0.19	27.550	1.4
373	376.0	6.397	35.063	4.93	0.19	27.551	1.3
375	378.0	6.400	35.063	4.94	0.19	27.551	1.1
377	380.0	6.396	35.062	4.94	0.19	27.551	1.1
379	382.0	6.383	35.062	4.94	0.19	27.552	1.1
381	384.0	6.379	35.062	4.95	0.19	27.552	1.1
383	386.0	6.360	35.060	4.95	0.19	27.553	1.3
385	388.1	6.347	35.060	4.96	0.19	27.555	1.4
387	390.0	6.344	35.060	4.96	0.19	27.555	1.5
389	392.0	6.335	35.058	4.96	0.19	27.555	1.5
391	394.0	6.306	35.057	4.98	0.19	27.558	1.6
393	396.0	6.277	35.055	4.98	0.19	27.560	1.6
394	397.9	6.260	35.054	4.98	0.19	27.561	1.7
TEMP	PRESS	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH
°C	dbar	22	12 JUL 1982	2027	40°26.6'N	67°40.1'W	531
6.245	400.1	22	12 JUL 1982	2027	40°26.6'N	67°40.1'W	531
6.225	398	22	12 JUL 1982	2027	40°26.6'N	67°40.1'W	531
6.205	401.1	22	12 JUL 1982	2027	40°26.6'N	67°40.1'W	531
6.181	402	22	12 JUL 1982	2027	40°26.6'N	67°40.1'W	531
6.172	404	22	12 JUL 1982	2027	40°26.6'N	67°40.1'W	531
6.176	408.0	22	12 JUL 1982	2027	40°26.6'N	67°40.1'W	531
6.157	410.1	22	12 JUL 1982	2027	40°26.6'N	67°40.1'W	531
6.157	411.8	22	12 JUL 1982	2027	40°26.6'N	67°40.1'W	531
6.097	410	22	12 JUL 1982	2027	40°26.6'N	67°40.1'W	531
6.058	412	22	12 JUL 1982	2027	40°26.6'N	67°40.1'W	531
6.012	414	22	12 JUL 1982	2027	40°26.6'N	67°40.1'W	531
5.946	416	22	12 JUL 1982	2027	40°26.6'N	67°40.1'W	531
5.900	420.0	22	12 JUL 1982	2027	40°26.6'N	67°40.1'W	531
5.798	424.0	22	12 JUL 1982	2027	40°26.6'N	67°40.1'W	531
5.749	422	22	12 JUL 1982	2027	40°26.6'N	67°40.1'W	531
5.709	424	22	12 JUL 1982	2027	40°26.6'N	67°40.1'W	531
5.688	426.1	22	12 JUL 1982	2027	40°26.6'N	67°40.1'W	531
5.679	428	22	12 JUL 1982	2027	40°26.6'N	67°40.1'W	531
5.670	430	22	12 JUL 1982	2027	40°26.6'N	67°40.1'W	531
5.647	432	22	12 JUL 1982	2027	40°26.6'N	67°40.1'W	531
5.644	434	22	12 JUL 1982	2027	40°26.6'N	67°40.1'W	531
5.651	436	22	12 JUL 1982	2027	40°26.6'N	67°40.1'W	531
5.645	438	22	12 JUL 1982	2027	40°26.6'N	67°40.1'W	531
5.647	440	22	12 JUL 1982	2027	40°26.6'N	67°40.1'W	531
5.652	442.1	22	12 JUL 1982	2027	40°26.6'N	67°40.1'W	531
5.646	444	22	12 JUL 1982	2027	40°26.6'N	67°40.1'W	531
5.633	446	22	12 JUL 1982	2027	40°26.6'N	67°40.1'W	531
5.607	448	22	12 JUL 1982	2027	40°26.6'N	67°40.1'W	531
5.597	450	22	12 JUL 1982	2027	40°26.6'N	67°40.1'W	531
5.589	452.0	22	12 JUL 1982	2027	40°26.6'N	67°40.1'W	531
5.591	454	22	12 JUL 1982	2027	40°26.6'N	67°40.1'W	531
5.595	456	22	12 JUL 1982	2027	40°26.6'N	67°40.1'W	531
5.580	458	22	12 JUL 1982	2027	40°26.6'N	67°40.1'W	531
5.571	460	22	12 JUL 1982	2027	40°26.6'N	67°40.1'W	531
5.572	462	22	12 JUL 1982	2027	40°26.6'N	67°40.1'W	531
5.589	464	22	12 JUL 1982	2027	40°26.6'N	67°40.1'W	531
5.557	466	22	12 JUL 1982	2027	40°26.6'N	67°40.1'W	531
5.558	468	22	12 JUL 1982	2027	40°26.6'N	67°40.1'W	531
5.555	470.0	22	12 JUL 1982	2027	40°26.6'N	67°40.1'W	531
5.518	472	22	12 JUL 1982	2027	40°26.6'N	67°40.1'W	531
5.482	474	22	12 JUL 1982	2027	40°26.6'N	67°40.1'W	531
5.481	476	22	12 JUL 1982	2027	40°26.6'N	67°40.1'W	531
5.486	478	22	12 JUL 1982	2027	40°26.6'N	67°40.1'W	531
5.491	480	22	12 JUL 1982	2027	40°26.6'N	67°40.1'W	531
5.489	482.0	22	12 JUL 1982	2027	40°26.6'N	67°40.1'W	531
5.489	484	22	12 JUL 1982	2027	40°26.6'N	67°40.1'W	531
5.490	486	22	12 JUL 1982	2027	40°26.6'N	67°40.1'W	531
5.494	488	22	12 JUL 1982	2027	40°26.6'N	67°40.1'W	531
5.498	490.1	22	12 JUL 1982	2027	40°26.6'N	67°40.1'W	531
5.498	492.0	22	12 JUL 1982	2027	40°26.6'N	67°40.1'W	531
5.498	494.0	22	12 JUL 1982	2027	40°26.6'N	67°40.1'W	531
5.498	496.0	22	12 JUL 1982	2027	40°26.6'N	67°40.1'W	531
5.493	497.9	22	12 JUL 1982	2027	40°26.6'N	67°40.1'W	531
5.529	499.9	22	12 JUL 1982	2027	40°26.6'N	67°40.1'W	531
5.529	501.9	22	12 JUL 1982	2027	40°26.6'N	67°40.1'W	531
5.529	503.9	22	12 JUL 1982	2027	40°26.6'N	67°40.1'W	531
5.529	505.9	22	12 JUL 1982	2027	40°26.6'N	67°40.1'W	531
5.529	507.9	22	12 JUL 1982	2027	40°26.6'N	67°40.1'W	531
5.529	509.9	22	12 JUL 1982	2027	40°26.6'N	67°40.1'W	531
5.529	511.9	22	12 JUL 1982	2027	40°26.6'N	67°40.1'W	531
5.529	513.9	22	12 JUL 1982	2027	40°26.6'N	67°40.1'W	531
5.529	515.9	22	12 JUL 1982	2027	40°26.6'N	67°40.1'W	531
5.529	517.9	22	12 JUL 1982	2027	40°26.6'N	67°40.1'W	531
5.529	519.9	22	12 JUL 1982	2027	40°26.6'N	67°40.1'W	531
5.529	521.9	22	12 JUL 1982	2027	40°26.6'N	67°40.1'W	531
5.529	523.9	22	12 JUL 1982	2027	40°26.6'N	67°40.1'W	531
5.529	525.9	22	12 JUL 1982	2027	40°26.6'N	67°40.1'W	531
5.529	527.9	22	12 JUL 1982	2027	40°26.6'N	67°40.1'W	531
5.529	529.9	22	12 JUL 1982	2027	40°26.6'N	67°40.1'W	531
5.529	531.9	22	12 JUL 1982	2027	40°26.6'N	67°40.1'W	531
5.529	533.9	22	12 JUL 1982	2027	40°26.6'N	67°40.1'W	531
5.529	535.9	22	12 JUL 1982	2027	40°26.6'N	67°40.1'W	531
5.529	537.9	22	12 JUL 1982	2027	40°26.6'N	67°40.1'W	531
5.529	539.9	22	12 JUL 1982	2027	40°26.6'N	67°40.1'W	531
5.529	541.9	22	12 JUL 1982	2027	40°26.6'N	67°40.1'W	531
5.529	543.9	22	12 JUL 1982	2027	40°26.6'N	67°40.1'W	531
5.529	545.9	22	12 JUL 1982	2027	40°26.6'N	67°40.1'W	531
5.529	547.9	22	12 JUL 1982	2027	40°26.6'N	67°40.1'W	531
5.529	549.9	22	12 JUL 1982	2027	40°26.6'N	67°40.1'W	531
5.529	551.9	22	12 JUL 1982	2027	40°26.6'N	67°40.1'W	531
5.529	553.9	22	12 JUL 1982	2027	40°26.6'N	67°40.1'W	531
5.529	555.9	22	12 JUL 1982	2027	40°26.6'N	67°40.1'W	531
5.529	557.9	22	12 JUL 1982	2027	40°26.6'N	67°40.1'W	531
5.529	559.9	22	12 JUL 1982	2027	40°26.6'N	67°40.1'W	531
5.529	561.9	22	12 JUL 1982	2027	40°26.6'N	67°40.1'W	531
5.529	563.9	22	12 JUL 1982	2027	40°26.6'N	67°40.1'W	531
5.529	565.9	22	12 JUL 1982	2027	40°26.6'N	67°40.1'W	

SHIP	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH
OC	122	22	12 JUL 1982	2027	40°26.6'N	67°40.1'W	531
DEPTH	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH
m	122	22	12 JUL 1982	2027	40°26.6'N	67°40.1'W	531
496	500.0	5.493	5.20	0.21	27.622	0.582	1481.0
514	519.0	5.520	5.01	0.20	27.620	0.592	1481.0
SHIP	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH
OC	122	23	12 JUL 1982	2121	40°26.6'N	67°39.2'W	350
DEPTH	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH
m	122	23	12 JUL 1982	2121	40°26.6'N	67°39.2'W	350
1	0.8	23.683	35.148	4.72	0.17	23.848	0.000
2	2.0	23.698	35.148	4.75	0.17	23.844	0.005
4	4.0	23.681	35.146	4.77	0.17	23.848	0.013
6	6.0	23.554	35.154	4.79	0.17	23.891	0.021
8	7.9	23.430	35.166	4.81	0.17	23.936	0.029
10	10.0	23.245	35.236	4.84	0.18	24.044	0.037
12	12.1	23.214	35.277	4.86	0.18	24.084	0.045
14	13.9	23.050	35.292	4.89	0.18	24.142	0.052
16	16.0	22.231	35.307	5.00	0.21	24.387	0.060
18	18.0	21.701	35.316	5.08	0.23	24.543	0.066
20	19.9	21.533	35.392	5.10	0.24	24.648	0.073
22	22.1	21.333	35.472	5.14	0.24	24.764	0.080
24	23.9	21.226	35.488	5.15	0.23	24.805	0.086
26	26.1	21.061	35.540	5.15	0.23	24.890	0.092
28	27.9	20.727	35.609	5.22	0.23	25.033	0.098
30	30.1	20.176	35.603	5.27	0.24	25.177	0.104
32	31.9	19.511	35.604	5.39	0.26	25.352	0.109
34	34.1	19.236	35.629	5.39	0.28	25.442	0.114
36	36.0	19.116	35.627	5.40	0.28	25.472	0.119
38	38.0	18.929	35.630	5.41	0.29	25.522	0.124
40	40.0	18.525	35.608	5.47	0.30	25.608	0.129
42	42.0	18.344	35.639	5.46	0.31	25.677	0.134
44	44.0	18.101	35.638	5.43	0.30	25.737	0.138
46	46.0	18.077	35.658	5.38	0.30	25.758	0.143
48	47.9	17.945	35.648	5.38	0.30	25.783	0.147
50	50.1	17.754	35.645	5.36	0.29	25.828	0.152
52	52.0	17.662	35.656	5.34	0.28	25.859	0.156
54	54.0	17.388	35.657	5.31	0.27	25.927	0.160
55	55.9	17.060	35.658	5.29	0.26	26.006	0.164
58	58.0	16.726	35.640	5.21	0.24	26.072	0.168
60	60.0	16.710	35.645	5.14	0.24	26.080	0.172
62	62.0	16.646	35.636	5.10	0.24	26.087	0.176
63	63.9	16.538	35.626	5.07	0.23	26.105	0.180
66	66.0	16.254	35.584	5.06	0.23	26.139	0.184
67	68.0	15.834	35.545	5.09	0.21	26.206	0.188
70	70.1	15.491	35.524	5.09	0.19	26.268	0.191
71	71.8	15.283	35.513	5.05	0.18	26.306	0.194
73	74.0	14.770	35.476	5.06	0.16	26.390	0.198
75	76.0	14.620	35.466	4.99	0.15	26.416	0.201
77	77.9	14.492	35.453	4.95	0.15	26.433	0.204
79	80.1	14.394	35.437	4.91	0.15	26.442	0.208
81	82.0	14.019	35.407	4.96	0.14	26.498	0.211
83	84.1	13.771	35.406	4.91	0.13	26.550	0.214
85	86.0	13.711	35.413	4.89	0.13	26.568	0.217
87	88.0	13.696	35.427	4.85	0.12	26.582	0.220
89	89.9	13.558	35.430	4.86	0.12	26.613	0.223
91	92.0	13.476	35.440	4.81	0.11	26.637	0.226
93	94.1	13.464	35.443	4.77	0.11	26.642	0.229
95	96.1	13.456	35.444	4.77	0.11	26.645	0.231
97	97.9	13.440	35.447	4.77	0.11	26.650	0.234

SHIP OC	CRUISE 122	STATION 23	DATE 12 JUL 1982	EST 2121	LATITUDE 40°26.6'N	LONGITUDE 67°39.2'W	DEPTH 350		
DEPTH m	PRESS dbar	TEMP °C	SALIN psu	OXY ml/l	ATN m ⁻¹	DYHT A 10m ² /s ²	S SPD m/s	N	cph
99	100.0	13.419	35.450	4.71	0.11	26.657	0.237	1504.	3.3
101	102.1	13.381	35.453	4.72	0.11	26.667	0.240	1504.	3.3
103	104.0	13.344	35.456	4.74	0.11	26.677	0.242	1504.	3.3
105	106.0	13.326	35.458	4.71	0.11	26.682	0.245	1504.	3.1
107	108.0	13.303	35.458	4.67	0.11	26.687	0.248	1504.	3.0
109	110.0	13.288	35.460	4.66	0.11	26.691	0.251	1503.	3.0
111	112.0	13.271	35.460	4.66	0.11	26.695	0.254	1503.	3.5
113	114.0	13.258	35.461	4.67	0.11	26.698	0.256	1503.	4.0
115	115.9	13.230	35.461	4.62	0.11	26.704	0.259	1503.	4.4
117	117.9	13.153	35.465	4.60	0.11	26.723	0.262	1503.	4.8
119	120.0	13.040	35.470	4.60	0.11	26.750	0.264	1503.	4.9
121	122.1	12.982	35.473	4.58	0.10	26.764	0.267	1503.	4.9
123	123.9	12.919	35.476	4.57	0.10	26.779	0.269	1503.	4.6
125	126.0	12.872	35.486	4.49	0.10	26.796	0.272	1502.	4.1
127	128.0	12.851	35.490	4.47	0.10	26.803	0.275	1502.	3.6
129	130.1	12.837	35.491	4.46	0.10	26.807	0.277	1502.	3.2
131	132.0	12.833	35.492	4.49	0.10	26.808	0.280	1502.	2.8
133	133.9	12.817	35.492	4.45	0.10	26.811	0.282	1502.	2.6
135	135.9	12.793	35.494	4.42	0.10	26.818	0.285	1502.	3.0
137	138.0	12.785	35.494	4.38	0.10	26.820	0.287	1502.	3.5
139	140.1	12.745	35.489	4.45	0.11	26.824	0.290	1502.	3.7
141	141.9	12.663	35.484	4.43	0.11	26.836	0.292	1502.	3.8
143	144.0	12.530	35.474	4.39	0.11	26.855	0.295	1502.	3.5
145	146.0	12.455	35.473	4.39	0.12	26.869	0.297	1501.	3.7
147	147.9	12.452	35.476	4.38	0.12	26.872	0.299	1501.	3.2
149	150.1	12.455	35.477	4.35	0.12	26.872	0.302	1501.	2.9
151	151.9	12.456	35.478	4.37	0.11	26.873	0.304	1501.	2.8
153	154.0	12.449	35.480	4.33	0.11	26.876	0.307	1501.	3.0
155	156.0	12.398	35.476	4.32	0.11	26.882	0.309	1501.	3.5
157	158.0	12.270	35.454	4.35	0.12	26.890	0.312	1501.	3.8
159	160.0	12.133	35.442	4.34	0.13	26.907	0.314	1500.	3.9
161	162.0	12.076	35.439	4.33	0.13	26.916	0.316	1500.	3.8
163	164.0	12.071	35.434	4.30	0.12	26.929	0.319	1500.	3.5
165	165.9	12.039	35.453	4.30	0.12	26.934	0.321	1500.	3.2
167	168.1	12.018	35.452	4.23	0.12	26.937	0.323	1500.	2.8
169	170.0	12.004	35.451	4.24	0.12	26.939	0.325	1500.	2.5
171	172.1	11.954	35.441	4.25	0.12	26.941	0.328	1500.	2.3
173	173.9	11.926	35.440	4.24	0.12	26.945	0.330	1500.	2.2
175	176.0	11.903	35.439	4.20	0.12	26.950	0.332	1500.	2.2
177	178.0	11.891	35.439	4.20	0.12	26.952	0.335	1500.	2.3
179	180.1	11.873	35.439	4.21	0.12	26.955	0.337	1500.	2.3
180	181.9	11.865	35.439	4.21	0.12	26.956	0.339	1500.	2.4
182	184.0	11.844	35.437	4.18	0.12	26.959	0.341	1500.	2.5
184	186.0	11.821	35.437	4.18	0.12	26.965	0.344	1500.	2.4
187	188.1	11.808	35.443	4.16	0.12	26.971	0.346	1500.	2.6
188	190.0	11.809	35.446	4.16	0.11	26.973	0.348	1500.	2.7
190	192.0	11.781	35.444	4.15	0.11	26.977	0.351	1500.	2.7
192	193.9	11.747	35.443	4.13	0.11	26.982	0.353	1500.	2.7
194	196.0	11.710	35.442	4.09	0.11	26.988	0.355	1500.	2.8
197	198.2	11.682	35.440	4.09	0.11	26.992	0.357	1500.	2.8

SHIP OC	CRUISE 122	STATION 23	DATE 12 JUL 1982	EST 2121	LATITUDE 40°26.6'N	LONGITUDE 67°39.2'W	DEPTH 350
DEPTH m	PRESS dbar	TEMP °C	SALIN psu	OXY ml/l	ATN m ⁻¹	SVHT A 10m ² /s ²	N cph
288	290.0	9.227	35.244	4.21	0.14	0.447	1492.
289	291.0	9.212	35.248	4.23	0.14	0.448	1492.
290	292.0	9.202	35.248	4.21	0.14	0.449	1492.
291	293.0	9.195	35.248	4.20	0.14	0.450	1492.
292	294.0	9.189	35.248	4.20	0.14	0.451	1492.
293	295.0	9.182	35.247	4.23	0.14	0.452	1492.
293	296.0	9.162	35.245	4.27	0.14	0.452	1492.
295	297.1	9.154	35.245	4.21	0.14	0.453	1492.
1	0.7	23.740	35.179	4.66	0.18	0.000	1532.
2	2.1	23.722	35.177	4.63	0.17	0.006	1531.
4	4.0	23.702	35.173	4.68	0.16	0.013	1531.
6	6.0	23.704	35.177	4.68	0.16	0.022	1532.
8	7.9	23.699	35.179	4.72	0.16	0.029	1532.
10	10.0	23.524	35.222	4.79	0.17	0.037	1531.
12	12.1	23.257	35.332	4.86	0.18	0.045	1531.
14	13.9	23.192	35.353	4.87	0.18	0.052	1531.
16	16.2	22.240	35.313	5.07	0.19	0.061	1528.
18	17.9	21.964	35.342	5.07	0.21	0.067	1527.
20	20.1	21.528	35.418	5.14	0.22	0.074	1526.
22	21.9	21.269	35.463	5.20	0.22	0.080	1526.
24	24.0	20.994	35.563	5.22	0.22	0.086	1525.
26	26.0	20.386	35.616	5.32	0.23	0.092	1524.
28	28.0	19.788	35.657	5.39	0.24	0.098	1522.
30	29.9	19.288	35.657	5.43	0.27	0.103	1521.
32	32.0	19.070	35.648	5.41	0.28	0.108	1520.
34	34.1	18.813	35.630	5.44	0.28	0.113	1519.
36	36.0	18.502	35.622	5.49	0.28	0.118	1519.
38	38.0	18.106	35.616	5.49	0.28	0.122	1517.
40	40.0	18.046	35.617	5.44	0.28	0.127	1517.
42	41.9	17.879	35.602	5.43	0.28	0.131	1517.
44	43.9	17.769	35.595	5.38	0.28	0.136	1517.
46	46.1	17.748	35.614	5.33	0.28	0.140	1517.
47	47.8	17.757	35.628	5.33	0.28	0.144	1517.
50	50.1	17.717	35.647	5.25	0.28	0.149	1517.
52	52.0	17.211	35.642	5.32	0.27	0.153	1515.
54	54.1	16.950	35.657	5.26	0.25	0.157	1514.
56	56.0	16.843	35.651	5.15	0.24	0.161	1514.
58	58.0	16.518	35.612	5.10	0.23	0.165	1513.
60	60.0	15.732	35.538	5.13	0.20	0.169	1511.
61	61.9	15.387	35.522	5.05	0.17	0.172	1510.
64	64.0	15.264	35.523	4.96	0.17	0.176	1509.
66	66.1	15.015	35.496	4.95	0.15	0.179	1508.
67	67.9	14.695	35.477	4.94	0.15	0.182	1507.
69	70.0	14.444	35.464	4.84	0.14	0.186	1507.
71	72.0	14.210	35.448	4.85	0.13	0.189	1506.
73	74.0	14.035	35.437	4.85	0.12	0.192	1505.
75	76.0	13.817	35.424	4.85	0.12	0.195	1505.
77	78.0	13.697	35.434	4.80	0.11	0.198	1504.
79	80.0	13.656	35.436	4.77	0.11	0.201	1504.
81	82.0	13.617	35.437	4.76	0.11	0.204	1504.
83	84.0	13.604	35.437	4.74	0.11	0.207	1504.
85	85.9	13.593	35.436	4.77	0.11	0.209	1504.
87	88.1	13.566	35.439	4.70	0.11	0.212	1504.
89	90.0	13.543	35.439	4.72	0.11	0.215	1504.
91	92.0	13.521	35.439	4.70	0.11	0.218	1504.
93	94.1	13.421	35.447	4.70	0.11	0.221	1504.
95	95.9	13.369	35.453	4.71	0.10	0.224	1504.
97	98.0	13.328	35.458	4.65	0.10	0.226	1503.

SHIP OC	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH	SHIP OC	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH
	122	24	12 JUL 1982	2155	40°26.5'N	67°38.3'W	175		122	25	12 JUL 1982	2216	40°26.5'N	67°36.9'W	149
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	100.1	13.282	35.462	4.63	0.10	26.694	0.229	1503.	4.1						
101	101.9	13.274	35.463	4.65	0.10	26.697	0.232	1503.	3.8						
103	104.0	13.253	35.464	4.60	0.10	26.702	0.235	1503.	3.6						
105	105.9	13.230	35.466	4.61	0.10	26.708	0.237	1503.	3.5						
107	108.0	13.166	35.471	4.58	0.10	26.725	0.240	1503.	3.4						
109	110.0	13.140	35.475	4.57	0.10	26.733	0.243	1503.	3.4						
111	112.0	13.125	35.475	4.55	0.10	26.737	0.245	1503.	3.8						
113	113.9	13.112	35.478	4.54	0.10	26.741	0.248	1503.	4.0						
115	116.1	13.100	35.480	4.51	0.10	26.745	0.251	1503.	4.1						
117	117.9	13.049	35.481	4.53	0.10	26.756	0.253	1503.	4.2						
119	120.0	12.963	35.498	4.51	0.10	26.787	0.256	1503.	4.1						
121	122.0	12.895	35.496	4.48	0.10	26.799	0.258	1502.	3.9						
123	123.9	12.891	35.502	4.46	0.10	26.804	0.261	1502.	3.5						
125	126.0	12.889	35.503	4.43	0.10	26.806	0.263	1502.	2.9						
127	128.1	12.882	35.504	4.42	0.10	26.808	0.266	1503.	2.2						
129	130.0	12.883	35.505	4.42	0.10	26.808	0.268	1503.	2.0						
131	132.0	12.881	35.505	4.41	0.10	26.809	0.271	1503.	2.0						
133	134.0	12.864	35.504	4.42	0.10	26.811	0.274	1503.	2.1						
135	136.1	12.817	35.500	4.42	0.10	26.818	0.276	1502.	2.1						
137	137.9	12.799	35.500	4.41	0.10	26.822	0.279	1502.	2.1						
139	140.1	12.794	35.501	4.38	0.10	26.823	0.281	1502.	2.1						
140	141.3	12.793	35.501	4.39	0.10	26.823	0.283	1502.	1.8						
141	142.0	12.790	35.500	4.41	0.10	26.823	0.284	1502.	1.3						
142	143.0	12.788	35.500	4.42	0.10	26.824	0.285	1502.	1.7						
143	144.0	12.787	35.500	4.38	0.10	26.824	0.286	1502.	2.2						
144	145.0	12.788	35.499	4.34	0.10	26.823	0.287	1502.	2.6						
145	146.0	12.781	35.500	4.34	0.10	26.825	0.289	1502.	2.7						
146	147.1	12.737	35.501	4.37	0.10	26.835	0.290	1502.	2.8						
147	147.9	12.733	35.502	4.40	0.10	26.836	0.291	1502.	3.0						
148	148.9	12.718	35.502	4.39	0.10	26.839	0.292	1502.	3.1						
149	150.0	12.725	35.500	4.35	0.10	26.836	0.294	1502.	3.0						
150	151.0	12.718	35.502	4.35	0.10	26.839	0.295	1502.	2.7						
151	152.0	12.693	35.504	4.37	0.10	26.846	0.296	1502.	2.6						
152	153.0	12.679	35.506	4.37	0.10	26.850	0.299	1502.	2.4						
153	154.0	12.677	35.506	4.34	0.10	26.850	0.299	1502.	2.2						
154	155.0	12.680	35.506	4.34	0.10	26.850	0.300	1502.	1.7						
155	156.0	12.684	35.506	4.35	0.10	26.849	0.301	1502.	1.7						
156	157.1	12.683	35.506	4.35	0.10	26.849	0.302	1502.	1.7						
157	158.0	12.685	35.506	4.38	0.10	26.849	0.303	1502.	1.7						
157	158.7	12.685	35.507	4.37	0.10	26.849	0.304	1502.	1.7						

SHIP OC	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH	SHIP OC	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH						
	122	24	12 JUL 1982	2155	40°26.5'N	67°38.3'W	175		122	25	12 JUL 1982	2216	40°26.5'N	67°36.9'W	149						
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
99	100.1	13.282	35.462	4.63	0.10	26.694	0.229	1503.	4.1		1	0.8	23.731	35.176	4.68	0.17	23.855	0.000	1531.	10.8	
101	101.9	13.274	35.463	4.65	0.10	26.697	0.232	1503.	3.8		2	2.0	23.733	35.174	4.67	0.16	23.854	0.005	1532.	10.8	
103	104.0	13.253	35.464	4.60	0.10	26.702	0.235	1503.	3.6		4	4.0	23.736	35.175	4.75	0.16	23.854	0.013	1532.	10.8	
105	105.9	13.230	35.466	4.61	0.10	26.708	0.237	1503.	3.5		6	6.0	23.737	35.180	4.75	0.16	23.857	0.021	1532.	10.8	
107	108.0	13.166	35.471	4.58	0.10	26.725	0.240	1503.	3.4		8	8.0	23.723	35.185	4.81	0.16	23.865	0.029	1532.	10.8	
109	110.0	13.140	35.475	4.57	0.10	26.733	0.243	1503.	3.4		10	10.0	23.647	35.193	4.78	0.16	23.893	0.037	1531.	12.5	
111	112.0	13.125	35.475	4.55	0.10	26.737	0.245	1503.	3.8		12	11.9	23.206	35.213	4.80	0.18	24.037	0.045	1530.	13.8	
113	113.9	13.112	35.478	4.54	0.10	26.741	0.248	1503.	4.0		14	14.1	22.359	35.273	4.90	0.19	24.326	0.053	1528.	14.5	
115	116.1	13.100	35.480	4.51	0.10	26.745	0.251	1503.	4.1		16	16.0	21.981	35.309	4.98	0.21	24.460	0.060	1527.	14.8	
117	117.9	13.049	35.481	4.53	0.10	26.756	0.253	1503.	4.2		18	18.0	21.574	35.339	5.04	0.23	24.596	0.067	1526.	14.8	
119	120.0	12.963	35.498	4.51	0.10	26.787	0.256	1503.	4.1		20	20.0	21.460	35.452	5.05	0.22	24.713	0.073	1526.	14.6	
121	122.0	12.895	35.496	4.48	0.10	26.799	0.258	1502.	3.9		22	22.0	21.327	35.453	5.10	0.22	24.751	0.079	1526.	14.2	
123	123.9	12.891	35.502	4.46	0.10	26.804	0.261	1502.	3.5		24	24.0	21.017	35.521	5.16	0.22	24.887	0.086	1525.	14.0	
125	126.0	12.889	35.503	4.43	0.10	26.806	0.263	1502.	2.9		26	26.0	20.658	35.613	5.19	0.22	25.055	0.092	1524.	13.6	
127	128.1	12.882	35.504	4.42	0.10	26.808	0.266	1503.	2.2		28	28.0	19.883	35.614	5.29	0.23	25.262	0.103	1522.	13.3	
129	130.0	12.883	35.505	4.42	0.10	26.808	0.268	1503.	2.0		30	30.0	19.610	35.649	5.29	0.25	25.361	0.103	1522.	12.8	
131	132.0	12.881	35.505	4.41	0.10	26.809	0.271	1503.	2.0		32	32.0	19.530	35.664	5.30	0.26	25.393	0.108	1521.	12.0	
133	134.0	12.864	35.504	4.42	0.10	26.811	0.274	1503.	2.1		34	34.1	19.250	35.646	5.32	0.27	25.452	0.113	1521.	11.4	
135	136.1	12.817	35.500	4.42	0.10	26.818	0.276	1502.	2.1		36	35.9	18.922	35.625	5.33	0.27	25.520	0.118	1520.	11.3	
137	137.9	12.799	35.500	4.41	0.10	26.822	0.279	1502.	2.1		38	38.0	18.626	35.635	5.32	0.29	25.603	0.123	1519.	11.6	
139	140.1	12.794	35.501	4.38	0.10	26.823	0.281	1502.	2.1		40	40.0	18.195	35.610	5.38	0.29	25.692	0.128	1518.	11.7	
140	141.3	12.793	35.501	4.39	0.10	26.823	0.283	1502.	1.8		42	41.9	17.480	35.538	5.45	0.27	25.812	0.132	1516.	11.2	
141	142.0	12.790	35.500	4.41	0.10	26.823	0.284	1502.	1.3		44	44.1	16.769	35.503	5.38	0.23	25.956	0.137	1513.	10.3	
142	143.0	12.788	35.500	4.42	0.10	26.824	0.285	1502.	1.7		46	45.9	16.643	35.511	5.25	0.22	25.992	0.140	1513.	9.1	
143	144.0	12.787	35.500	4.38	0.10	26.824	0.286	1502.	2.2		48	48.1	16.564	35.506	5.15	0.22	26.007	0.144	1513.	7.7	
144	145.0	12.788	35.499	4.34	0.10	26.823	0.287	1502.	2.6		50	50.1	16.582	35.518	5.14	0.22	26.012	0.149	1513.	6.6	
145	146.0	12.781	35.500	4.34	0.10	26.825	0.289	1502.	2.7		52	52.0	16.616	35.541	5.08	0.22	26.022	0.152	1513.	6.8	
146	147.1	12.737	35.501	4.37	0.10	26.835	0.290	1502.	2.8		54	54.0	16.654	35.566	5.04	0.22	26.032	0.156	1513.	7.7	
147	147.9	12.733	35.502	4.40	0.10	26.836	0.291	1502.	3.0		56	56.0	16.662	35.592	5.06	0.22	26.050	0.160	1513.	8.4	
148	148.9	12.718	35.502	4.39	0.10	26.839	0.292	1502.	3.1		57	57.9	16.248	35.568	5.12	0.21	26.128	0.164	1512.	9.0	
149	150.0	12.725	35.500	4.35	0.10	26.836	0.294	1502.	3.0		60	60.0	15.490	35.510	5.15	0.18	26.257	0.168	1510.	9.2	
150	151.0	12.718	35.502	4.35	0.10	26.839	0.295	1502.	2.7		61	62.0	15.360	35.523	5.02	0.16	26.296	0.171	1509.	9.4	
151	152.0	12.693	35.504	4.37	0.10	26.846	0.296	1502.	2.6		64	64.0	15.234	35.515	4.95	0.15	26.318	0.175	1509.	9.2	
152	153.0	12.679	35.506	4.37	0.10	26.850	0.297	1502.	2.4		66	66.1	14.958	35.438	4.93	0.14	26.365	0.178	1508.	8.5	
153	154.0	12.677	35.506	4.34	0.10	26.850	0.299	1502.	2.2		67	67.9	14.655	35.458	4.90	0.14	26.402	0.181	1507.	7.9	
154	155.0	12.680	35.506	4.34	0.10	26.850	0.300	1502.	1.7		69	70.0	14.273	35.438	4.88	0.13	26.469	0.185	1506.	7.6	
155	156.0	12.684	35.506	4.35	0.10	26.849	0.301	1502.	1.7		71	72.0	14.085	35.429	4.85	0.12	26.502	0.188	1505.	7.2	
156	157.1	12.683	35.506	4.35	0.10	26.849	0.302	1502.	1.7		73	74.0	13.942	35.420	4.87	0.12	26.525	0.191	1505.	6.4	
157	158.0	12.685	35.506	4.38	0.10	26.849	0.303	1502.	1.7		75	75.9	13.812	35.418	4.86	0.11	26.551	0.194	1505.	5.7	
157	158.7	12.685	35.507	4.37	0.10	26.849	0.304	1502.	1.7		77	78.0	13.755	35.417	4.82	0.11	26.562	0.197	1504.	4.9	
											79	80.0	13.742	35.417	4.82	0.11	26.565	0.200	1504.	4.4	
											81	82.1	13.691	35.413	4.79	0.11	26.572	0.203	1504.	4.0	
											83	84.0	13.601	35.410	4.81	0.11	26.588	0.206	1504.	3.7	
											85	86.0	13.559	35.413	4.78	0.11	26.600	0.209	1504.	3.5	
											87	88.0	13.522	35.410	4.77	0.11	26.605	0.212	1504.	3.3	
											89	90.0	13.490	35.411	4.78	0.11	26.612	0.214	1504.	3.0	
											91	92.0	13.487	35.412	4.75	0.11	26.613	0.217	1504.	2.5	
											93	94.0	13.472	35.411	4.74	0.11	26.615	0.220	1504.	2.7	
											95	95.9	13.449	35.411	4.75	0.11	26.621	0.223	1504.	3.1	
											97	98.1	13.438	35.410	4.69	0.11	26.622	0.226	1504.	3.5	

SHIP OC	CRUISE 122	STATION 24	DATE 12 JUL 1982	EST 2155	LATITUDE 40°26.5'N	LONGITUDE 67°38.3'W	DEPTH 175	SHIP OC	CRUISE 122	STATION 25	DATE 12 JUL 1982	EST 2216	LATITUDE 40°26.5'N	LONGITUDE 67°36.9'W	DEPTH 149						
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
99	100.1	13.282	35.462	4.63	0.10	26.694	0.229	1503.	4.1		1	0.8	23.731	35.176	4.68	0.17	23.855	0.000	1531.	10.8	
101	101.9	13.274	35.463	4.65	0.10	26.697	0.232	1503.	3.8		2	2.0	23.733	35.174	4.67	0.16	23.854	0.005	1532.	10.8	
103	104.0	13.253	35.464	4.60	0.10	26.702	0.235	1503.	3.6		4	4.0	23.736	35.175	4.75	0.16	23.854	0.013	1532.	10.8	
105	105.9	13.230	35.466	4.61	0.10	26.708	0.237	1503.	3.5		6	6.0	23.737	35.180	4.75	0.16	23.857	0.021	1532.	10.8	
107	108.0	13.166	35.471	4.58	0.10	26.725	0.240	1503.	3.4		8	8.0	23.723	35.185	4.81	0.16	23.865	0.029	1532.	10.8	
109	110.0	13.140	35.475	4.57	0.10	26.733	0.243	1503.	3.4		10	10.0	23.647	35.193	4.78	0.16	23.893	0.037	1531.	12.5	
111	112.0	13.125	35.475	4.55	0.10	26.737	0.245	1503.	3.8		12	11.9	23.206	35.213	4.80	0.18	24.037	0.045	1530.	13.8	
113	113.9	13.112	35.478	4.54	0.10	26.741	0.248	1503.	4.0		14	14.1	22.359	35.273	4.90	0.19	24.326	0.053	1528.	14.5	
115	116.1	13.100	35.480	4.51	0.10	26.745	0.251	1503.	4.1		16	16.0	21.981	35.309	4.98	0.21	24.460	0.060	1527.	14.8	
117	117.9	13.049	35.481	4.53	0.10	26.756	0.253	1503.	4.2		18	18.0	21.574	35.339	5.04	0.23	24.596	0.067	1526.	14.8	
119	120.0	12.963	35.498	4.51	0.10	26.787	0.256	1503.	4.1		20	20.0	21.460	35.452	5.05	0.22	24.713	0.073	1526.	14.6	
121	122.0	12.895	35.496	4.48	0.10	26.799	0.258	1502.	3.9		22	22.0	21.327	35.453	5.10	0.22	24.751	0.079	1526.	14.2	
123	123.9	12.891	35.502	4.46	0.10	26.804	0.261	1502.	3.5		24	24.0	21.017	35.521	5.16	0.22	24.887	0.086	1525.	14.0	
125	126.0	12.889	35.503	4.43	0.10	26.806	0.263	1502.	2.9		26	26.0	20.658	35.613	5.19	0.22	25.055	0.092	1524.	13.6	
127	128.1	12.882	35.504	4.42	0.10	26.808	0.266	1503.	2.2		28	28.0	19.883	35.614	5.29	0.23	25.262	0.103	1522.	13.3	
129	130.0	12.883	35.505	4.42	0.10	26.808	0.268	1503.	2.0		30	30.0	19.610	35.649	5.29	0.25	25.361	0.103	1522.	12.8	
131	132.0	12.881	35.505	4.41	0.10	26.809	0.271	1503.	2.0		32	32.0	19.530	35.664	5.30	0.26	25.393	0.108	1521.	12.0	
133	134.0	12.864	35.504	4.42	0.10	26.811	0.274	1503.	2.1		34	34.1	19.250	35.646	5.32	0.27	25.452	0.113	1521.	11.4	
135	136.1	12.817	35.500	4.42	0.10	26.818	0.276	1502.	2.1		36	35.9	18.922	35.625	5.33	0.27	25.520	0.118	1520.	11.3	
137	137.9	12.799	35.500	4.41	0.10	26.822	0.279	1502.	2.1		38	38.0	18.626	35.635	5.32	0.29	25.603	0.123	1519.	11.6	
139	140.1	12.794	35.501	4.38	0.10	26.823	0.281	1502.	2.1		40	40.0	18.195	35.610	5.38	0.29	25.692	0.128	1518.	11.7	
140	141.3	12.793	35.501	4.39	0.10	26.823	0.283	1502.	1.8		42	41.9	17.480	35.538	5.45	0.27	25.812	0.132	1516.	11.2	
141	142.0	12.790	35.500	4.41	0.10	26.823	0.284	1502.	1.3		44	44.1	16.769	35.503	5.38	0.23	25.956	0.137	1513.	10.3	
142	143.0	12.788	35.500	4.42	0.10	26.824	0.285	1502.	1.7		46	45.9	16.643	35.511	5.25	0.22	25.992	0.140	1513.	9.1	
143	144.0	12.787	35.500	4.38	0.10	26.824	0.286	1502.	2.2		48	48.1	16.564	35.506	5.15	0.22	26.007	0.144	1513.	7.7	
144	145.0	12.788	35.499	4.34	0.10	26.823	0.287	1502.	2.6		50	50.1	16.582	35.518	5.14	0.22	26.012	0.149	1513.	6.6	
145	146.0	12.781	35.500	4.34	0.10	26.825	0.289	1502.	2.7		52	52.0	16.616	35.541	5.08	0.22	26.022	0.152	1513.	6.8	
146	147.1	12.737	35.501	4.37	0.10	26.835	0.290	1502.	2.8		54	54.0	16.654	35.566	5.04	0.22	26.032	0.156	1513.	7.7	
147	147.9	12.733	35.502	4.40	0.10	26.836	0.291	1502.	3.0		56	56.0	16.662	35.592	5.06	0.22	26.050	0.160	1513.	8.4	
148	148.9	12.718	35.502	4.39	0.10	26.839	0.292	1502.	3.1		57	57.9	16.248	35.568	5.12	0.21	26.128	0.164	1512.	9.0	
149	150.0	12.725	35.500	4.35	0.10	26.836	0.294	1502.	3.0		60	60.0	15.490	35.510	5.15	0.18	26.257	0.168	1510.	9.2	
150	151.0	12.718	35.502	4.35	0.10	26.839	0.295	1502.	2.7		61	62.0	15.360	35.523	5.02	0.16	26.296	0.171	1509.	9.4	
151	152.0	12.693	35.504	4.37	0.10	26.846	0.296	1502.	2.6		64	64.0	15.234	35.515	4.95	0.15	26.318	0.175	1509.	9.2	
152	153.0	12.679	35.506	4.37	0.10	26.850	0.297	1502.	2.4		66	66.1	14.958	35.438	4.93	0.14	26.365	0.178	1508.	8.5	
153	154.0	12.677	35.506	4.34	0.10	26.850	0.299	1502.	2.2		67	67.9	14.655	35.458	4.90	0.14	26.402	0.181	1507.	7.9	
154	155.0	12.680	35.506	4.34	0.10	26.850	0.300	1502.	1.7		69	70.0	14.273	35.438	4.88	0.13	26.469	0.185	1506.	7.6	
155	156.0	12.684	35.506	4.35	0.10	26.849	0.301	1502.	1.7		71	72.0	14.085	35.429	4.85	0.12	26.502	0.188	1505.	7.2	
156	157.1	12.683	35.506	4.35	0.10	26.849	0.302	1502.	1.7		73	74.0	13.942	35.420	4.87	0.12	26.525	0.191	1505.	6.4	
157	158.0	12.685	35.506	4.38	0.10	26.849	0.303	1502.	1.7		75	75.9	13.812	35.418	4.86	0.11	26.551	0.194	1505.	5.7	
157	158.7	12.685	35.507	4.37	0.10	26.849	0.304	1502.	1.7		77	78.0	13.755	35.417	4.82	0.11	26.562	0.197	1504.	4.9	
											79	80.0	13.742	35.417	4.82	0.11	26.565	0.200	1504.	4.4	
											81	82.1	13.691	35.413	4.79	0.11	26.572	0.203	1504.	4.0	
											83	84.0	13.601	35.410	4.81	0.11	26.588	0.206	1504.	3.7	
											85	86.0	13.559	35.413	4.78	0.11	26.600	0.209	1504.	3.5	
											87	88.0	13.522	35.410	4.77	0.11	26.605	0.212	1504.	3.3	
											89	90.0	13.490	35.411	4.78	0.11	26.612	0.214	1504.	3.0	
											91	92.0	13.487	35.412	4.75	0.11	26.613	0.217	1504.	2.5	
											93	94.0	13.472	35.411	4.74	0.11	26.615	0.220	1504.	2.7	
											95	95.9	13.449	35.411	4.75	0.11	26.621	0.223	1504.	3.1	
											97	98.1	13.438	35.410	4.69	0.11	26.622	0.226	1504.	3.5	

SHIP OC	CRUISE 122	STATION 26	DATE 12 JUL 1982	EST 2306	LATITUDE 40°29.0'N	LONGITUDE 67°42.1'W	DEPTH 395
DEPTH m	CRUISE 122	STATION 26	DATE 12 JUL 1982	EST 2306	LATITUDE 40°29.0'N	LONGITUDE 67°42.1'W	DEPTH 395
DEPTH m	CRUISE 122	STATION 26	DATE 12 JUL 1982	EST 2306	LATITUDE 40°29.0'N	LONGITUDE 67°42.1'W	DEPTH 395
DEPTH m	CRUISE 122	STATION 26	DATE 12 JUL 1982	EST 2306	LATITUDE 40°29.0'N	LONGITUDE 67°42.1'W	DEPTH 395
DEPTH m	CRUISE 122	STATION 26	DATE 12 JUL 1982	EST 2306	LATITUDE 40°29.0'N	LONGITUDE 67°42.1'W	DEPTH 395
DEPTH m	CRUISE 122	STATION 26	DATE 12 JUL 1982	EST 2306	LATITUDE 40°29.0'N	LONGITUDE 67°42.1'W	DEPTH 395
DEPTH m	CRUISE 122	STATION 26	DATE 12 JUL 1982	EST 2306	LATITUDE 40°29.0'N	LONGITUDE 67°42.1'W	DEPTH 395
DEPTH m	CRUISE 122	STATION 26	DATE 12 JUL 1982	EST 2306	LATITUDE 40°29.0'N	LONGITUDE 67°42.1'W	DEPTH 395
DEPTH m	CRUISE 122	STATION 26	DATE 12 JUL 1982	EST 2306	LATITUDE 40°29.0'N	LONGITUDE 67°42.1'W	DEPTH 395
DEPTH m	CRUISE 122	STATION 26	DATE 12 JUL 1982	EST 2306	LATITUDE 40°29.0'N	LONGITUDE 67°42.1'W	DEPTH 395
DEPTH m	CRUISE 122	STATION 26	DATE 12 JUL 1982	EST 2306	LATITUDE 40°29.0'N	LONGITUDE 67°42.1'W	DEPTH 395
DEPTH m	CRUISE 122	STATION 26	DATE 12 JUL 1982	EST 2306	LATITUDE 40°29.0'N	LONGITUDE 67°42.1'W	DEPTH 395
DEPTH m	CRUISE 122	STATION 26	DATE 12 JUL 1982	EST 2306	LATITUDE 40°29.0'N	LONGITUDE 67°42.1'W	DEPTH 395
DEPTH m	CRUISE 122	STATION 26	DATE 12 JUL 1982	EST 2306	LATITUDE 40°29.0'N	LONGITUDE 67°42.1'W	DEPTH 395
DEPTH m	CRUISE 122	STATION 26	DATE 12 JUL 1982	EST 2306	LATITUDE 40°29.0'N	LONGITUDE 67°42.1'W	DEPTH 395
DEPTH m	CRUISE 122	STATION 26	DATE 12 JUL 1982	EST 2306	LATITUDE 40°29.0'N	LONGITUDE 67°42.1'W	DEPTH 395
DEPTH m	CRUISE 122	STATION 26	DATE 12 JUL 1982	EST 2306	LATITUDE 40°29.0'N	LONGITUDE 67°42.1'W	DEPTH 395
DEPTH m	CRUISE 122	STATION 26	DATE 12 JUL 1982	EST 2306	LATITUDE 40°29.0'N	LONGITUDE 67°42.1'W	DEPTH 395
DEPTH m	CRUISE 122	STATION 26	DATE 12 JUL 1982	EST 2306	LATITUDE 40°29.0'N	LONGITUDE 67°42.1'W	DEPTH 395
DEPTH m	CRUISE 122	STATION 26	DATE 12 JUL 1982	EST 2306	LATITUDE 40°29.0'N	LONGITUDE 67°42.1'W	DEPTH 395
DEPTH m	CRUISE 122	STATION 26	DATE 12 JUL 1982	EST 2306	LATITUDE 40°29.0'N	LONGITUDE 67°42.1'W	DEPTH 395
DEPTH m	CRUISE 122	STATION 26	DATE 12 JUL 1982	EST 2306	LATITUDE 40°29.0'N	LONGITUDE 67°42.1'W	DEPTH 395
DEPTH m	CRUISE 122	STATION 26	DATE 12 JUL 1982	EST 2306	LATITUDE 40°29.0'N	LONGITUDE 67°42.1'W	DEPTH 395
DEPTH m	CRUISE 122	STATION 26	DATE 12 JUL 1982	EST 2306	LATITUDE 40°29.0'N	LONGITUDE 67°42.1'W	DEPTH 395
DEPTH m	CRUISE 122	STATION 26	DATE 12 JUL 1982	EST 2306	LATITUDE 40°29.0'N	LONGITUDE 67°42.1'W	DEPTH 395
DEPTH m	CRUISE 122	STATION 26	DATE 12 JUL 1982	EST 2306	LATITUDE 40°29.0'N	LONGITUDE 67°42.1'W	DEPTH 395
DEPTH m	CRUISE 122	STATION 26	DATE 12 JUL 1982	EST 2306	LATITUDE 40°29.0'N	LONGITUDE 67°42.1'W	DEPTH 395
DEPTH m	CRUISE 122	STATION 26	DATE 12 JUL 1982	EST 2306	LATITUDE 40°29.0'N	LONGITUDE 67°42.1'W	DEPTH 395
DEPTH m	CRUISE 122	STATION 26	DATE 12 JUL 1982	EST 2306	LATITUDE 40°29.0'N	LONGITUDE 67°42.1'W	DEPTH 395
DEPTH m	CRUISE 122	STATION 26	DATE 12 JUL 1982	EST 2306	LATITUDE 40°29.0'N	LONGITUDE 67°42.1'W	DEPTH 395
DEPTH m	CRUISE 122	STATION 26	DATE 12 JUL 1982	EST 2306	LATITUDE 40°29.0'N	LONGITUDE 67°42.1'W	DEPTH 395
DEPTH m	CRUISE 122	STATION 26	DATE 12 JUL 1982	EST 2306	LATITUDE 40°29.0'N	LONGITUDE 67°42.1'W	DEPTH 395
DEPTH m	CRUISE 122	STATION 26	DATE 12 JUL 1982	EST 2306	LATITUDE 40°29.0'N	LONGITUDE 67°42.1'W	DEPTH 395
DEPTH m	CRUISE 122	STATION 26	DATE 12 JUL 1982	EST 2306	LATITUDE 40°29.0'N	LONGITUDE 67°42.1'W	DEPTH 395
DEPTH m	CRUISE 122	STATION 26	DATE 12 JUL 1982	EST 2306	LATITUDE 40°29.0'N	LONGITUDE 67°42.1'W	DEPTH 395
DEPTH m	CRUISE 122	STATION 26	DATE 12 JUL 1982	EST 2306	LATITUDE 40°29.0'N	LONGITUDE 67°42.1'W	DEPTH 395
DEPTH m	CRUISE 122	STATION 26	DATE 12 JUL 1982	EST 2306	LATITUDE 40°29.0'N	LONGITUDE 67°42.1'W	DEPTH 395
DEPTH m	CRUISE 122	STATION 26	DATE 12 JUL 1982	EST 2306	LATITUDE 40°29.0'N	LONGITUDE 67°42.1'W	DEPTH 395
DEPTH m	CRUISE 122	STATION 26	DATE 12 JUL 1982	EST 2306	LATITUDE 40°29.0'N	LONGITUDE 67°42.1'W	DEPTH 395
DEPTH m	CRUISE 122	STATION 26	DATE 12 JUL 1982	EST 2306	LATITUDE 40°29.0'N	LONGITUDE 67°42.1'W	DEPTH 395
DEPTH m	CRUISE 122	STATION 26	DATE 12 JUL 1982	EST 2306	LATITUDE 40°29.0'N	LONGITUDE 67°42.1'W	DEPTH 395
DEPTH m	CRUISE 122	STATION 26	DATE 12 JUL 1982	EST 2306	LATITUDE 40°29.0'N	LONGITUDE 67°42.1'W	DEPTH 395
DEPTH m	CRUISE 122	STATION 26	DATE 12 JUL 1982	EST 2306	LATITUDE 40°29.0'N	LONGITUDE 67°42.1'W	DEPTH 395
DEPTH m	CRUISE 122	STATION 26	DATE 12 JUL 1982	EST 2306	LATITUDE 40°29.0'N	LONGITUDE 67°42.1'W	DEPTH 395
DEPTH m	CRUISE 122	STATION 26	DATE 12 JUL 1982	EST 2306	LATITUDE 40°29.0'N	LONGITUDE 67°42.1'W	DEPTH 395
DEPTH m	CRUISE 122	STATION 26	DATE 12 JUL 1982	EST 2306	LATITUDE 40°29.0'N	LONGITUDE 67°42.1'W	DEPTH 395
DEPTH m	CRUISE 122	STATION 26	DATE 12 JUL 1982	EST 2306	LATITUDE 40°29.0'N	LONGITUDE 67°42.1'W	DEPTH 395
DEPTH m	CRUISE 122	STATION 26	DATE 12 JUL 1982	EST 2306	LATITUDE 40°29.0'N	LONGITUDE 67°42.1'W	DEPTH 395
DEPTH m	CRUISE 122	STATION 26	DATE 12 JUL 1982	EST 2306	LATITUDE 40°29.0'N	LONGITUDE 67°42.1'W	DEPTH 395
DEPTH m	CRUISE 122	STATION 26	DATE 12 JUL 1982	EST 2306	LATITUDE 40°29.0'N	LONGITUDE 67°42.1'W	DEPTH 395
DEPTH m	CRUISE 122	STATION 26	DATE 12 JUL 1982	EST 2306	LATITUDE 40°29.0'N	LONGITUDE 67°42.1'W	DEPTH 395
DEPTH m	CRUISE 122	STATION 26	DATE 12 JUL 1982	EST 2306	LATITUDE 40°29.0'N	LONGITUDE 67°42.1'W	DEPTH 395
DEPTH m	CRUISE 122	STATION 26	DATE 12 JUL 1982	EST 2306	LATITUDE 40°29.0'N	LONGITUDE 67°42.1'W	DEPTH 395
DEPTH m	CRUISE 122	STATION 26	DATE 12 JUL 1982	EST 2306	LATITUDE 40°29.0'N	LONGITUDE 67°42.1'W	DEPTH 395
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DEPTH m	CRUISE 122	STATION 26	DATE 12 JUL 1982	EST 2306	LATITUDE 40°29.0'N	LONGITUDE 67°42.1'W	DEPTH 395
DEPTH m	CRUISE 122	STATION 26	DATE 12 JUL 1982	EST 2306	LATITUDE 40°29.0'N	LONGITUDE 67°42.1'W	DEPTH 395
DEPTH m	CRUISE 122	STATION 26	DATE 12 JUL 1982	EST 2306	LATITUDE 40°29.0'N	LONGITUDE 67°42.1'W	DEPTH 395
DEPTH m	CRUISE 122	STATION 26	DATE 12 JUL 1982	EST 2306	LATITUDE 40°29.0'N	LONGITUDE 67°42.1'W	DEPTH 395
DEPTH m	CRUISE 122	STATION 26	DATE 12 JUL 1982	EST 2306	LATITUDE 40°29.0'N	LONGITUDE 67°42.1'W	DEPTH 395
DEPTH m	CRUISE 122	STATION 26	DATE				

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SHIP OC	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH			
	122	29	13 JUL 1982	0038	40°31.2'N	67°43.2'W	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
1	0.8	22.553	35.277	4.84	0.21	24.273	0.000	1529.	9.7	
2	2.0	22.652	35.279	4.88	0.21	24.247	0.004	1529.	9.7	
4	3.9	22.656	35.274	4.86	0.21	24.241	0.011	1529.	9.7	
6	6.0	22.088	35.221	4.98	0.21	24.363	0.019	1527.	9.7	
8	7.9	21.485	35.241	5.02	0.22	24.546	0.026	1526.	9.7	
10	10.1	21.472	35.290	5.02	0.22	24.586	0.033	1526.	9.8	
12	12.0	21.474	35.303	5.05	0.22	24.596	0.039	1526.	10.2	
14	14.0	21.464	35.315	5.06	0.22	24.608	0.046	1526.	10.5	
16	16.0	21.412	35.334	5.07	0.22	24.636	0.053	1526.	10.8	
18	18.0	21.166	35.374	5.09	0.22	24.734	0.059	1525.	11.3	
20	20.0	20.747	35.444	5.13	0.22	24.902	0.065	1524.	11.8	
22	21.9	20.324	35.503	5.21	0.22	25.061	0.071	1523.	12.0	
24	24.0	20.183	35.513	5.22	0.23	25.106	0.077	1523.	11.6	
26	26.0	20.088	35.499	5.24	0.23	25.121	0.083	1523.	10.6	
28	28.0	19.628	35.463	5.33	0.24	25.214	0.088	1521.	9.5	
30	30.1	19.282	35.461	5.36	0.25	25.302	0.094	1520.	8.9	
32	31.9	19.099	35.429	5.39	0.25	25.325	0.099	1520.	8.9	
34	34.1	18.919	35.394	5.42	0.25	25.344	0.105	1519.	8.6	
36	35.9	18.703	35.373	5.45	0.25	25.383	0.109	1519.	7.9	
38	38.0	18.548	35.430	5.44	0.27	25.466	0.115	1518.	7.4	
40	40.1	18.578	35.485	5.40	0.29	25.500	0.120	1519.	7.8	
42	41.9	18.572	35.494	5.40	0.29	25.509	0.125	1519.	8.2	
44	44.0	18.534	35.503	5.35	0.30	25.525	0.130	1519.	8.4	
46	45.9	18.362	35.494	5.34	0.29	25.562	0.134	1518.	8.5	
48	48.0	17.868	35.465	5.40	0.27	25.662	0.139	1517.	9.2	
50	50.0	17.597	35.449	5.35	0.26	25.716	0.144	1516.	9.7	
52	52.0	17.390	35.443	5.29	0.25	25.762	0.149	1515.	10.0	
54	54.1	16.929	35.364	5.30	0.23	25.812	0.153	1514.	10.0	
56	56.0	16.524	35.375	5.31	0.20	25.915	0.157	1513.	9.7	
58	58.1	15.984	35.268	5.27	0.19	25.958	0.161	1511.	9.6	
59	59.9	15.544	35.217	5.24	0.17	26.019	0.165	1510.	9.4	
61	62.0	15.362	35.231	5.18	0.16	26.071	0.169	1509.	9.2	
64	64.1	15.032	35.206	5.15	0.16	26.124	0.173	1508.	8.6	
65	66.0	14.978	35.240	5.12	0.15	26.163	0.177	1508.	8.2	
67	68.0	14.818	35.251	5.05	0.15	26.206	0.181	1508.	7.7	
69	70.0	14.788	35.311	4.96	0.14	26.259	0.184	1508.	7.3	
71	72.0	14.614	35.273	4.95	0.14	26.268	0.188	1507.	7.0	
73	74.0	14.094	35.151	4.99	0.14	26.285	0.191	1507.	6.8	
75	75.9	13.795	35.108	5.00	0.14	26.315	0.195	1504.	6.5	
77	78.0	13.627	35.104	4.95	0.14	26.346	0.198	1504.	6.1	
79	80.0	13.650	35.162	4.87	0.13	26.386	0.201	1504.	5.8	
81	82.0	13.512	35.146	4.87	0.13	26.403	0.205	1503.	5.5	
83	84.0	13.348	35.119	4.89	0.13	26.415	0.208	1503.	5.0	
85	86.0	13.336	35.123	4.85	0.13	26.421	0.211	1503.	4.8	
87	88.0	13.323	35.122	4.81	0.13	26.422	0.214	1503.	5.0	
89	90.0	13.256	35.128	4.81	0.14	26.441	0.218	1503.	5.6	
91	92.1	13.208	35.135	4.76	0.14	26.456	0.221	1503.	6.1	
93	94.0	13.090	35.151	4.78	0.14	26.492	0.224	1502.	6.5	
95	96.1	13.002	35.175	4.74	0.14	26.529	0.227	1502.	6.6	
97	98.0	12.924	35.201	4.71	0.14	26.564	0.230	1502.	6.6	

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SHIP OC	DEPTH m	CRUISE 122	STATION 30	DATE 13 JUL 1982	EST 0102	LATITUDE 40°31.4'N	LONGITUDE 67°42.9'W	DEPTH 315
TEMP °C	PRESS dbar	SALIN psu	OXY ml/l	ATN m ⁻¹	SIGT gm/cm ³	DYHT A 10m ² /s ²	S SPD m/s	N cph
198	200.0	10.822	35.353	4.18	0.15	27.083	0.347	1496.
200	202.0	10.709	35.343	4.19	0.16	27.096	0.349	1496.
202	204.0	10.564	35.329	4.23	0.16	27.111	0.351	1496.
204	206.0	10.482	35.328	4.21	0.16	27.125	0.353	1495.
206	208.1	10.420	35.324	4.18	0.17	27.132	0.355	1495.
208	210.0	10.355	35.320	4.23	0.17	27.140	0.356	1495.
210	212.0	10.199	35.305	4.25	0.18	27.156	0.358	1494.
212	214.0	10.104	35.301	4.24	0.18	27.170	0.360	1494.
214	216.0	10.044	35.298	4.24	0.18	27.177	0.362	1494.
216	218.0	10.007	35.296	4.27	0.18	27.183	0.364	1494.
218	220.0	9.871	35.282	4.27	0.18	27.195	0.366	1493.
220	222.0	9.675	35.266	4.30	0.18	27.216	0.368	1493.
222	224.0	9.587	35.265	4.31	0.19	27.230	0.369	1492.
224	225.9	9.569	35.268	4.32	0.20	27.234	0.371	1492.
226	228.0	9.549	35.267	4.30	0.21	27.237	0.373	1492.
228	230.1	9.548	35.267	4.32	0.20	27.237	0.375	1492.
230	231.9	9.543	35.267	4.32	0.21	27.238	0.376	1492.
232	234.1	9.504	35.261	4.30	0.20	27.240	0.378	1492.
234	235.9	9.338	35.246	4.35	0.21	27.256	0.380	1492.
236	238.1	9.096	35.232	4.35	0.23	27.285	0.382	1491.
238	239.9	8.998	35.225	4.40	0.22	27.295	0.383	1490.
240	242.0	8.896	35.221	4.39	0.24	27.308	0.385	1490.
242	244.0	8.797	35.215	4.42	0.24	27.320	0.386	1490.
244	246.0	8.786	35.216	4.45	0.23	27.322	0.388	1490.
246	248.0	8.783	35.217	4.44	0.24	27.323	0.389	1490.
248	250.1	8.774	35.214	4.42	0.23	27.323	0.391	1490.
250	252.0	8.763	35.215	4.45	0.23	27.325	0.393	1490.
252	254.0	8.773	35.217	4.42	0.24	27.325	0.394	1490.
254	255.9	8.782	35.218	4.43	0.23	27.324	0.396	1490.
256	258.1	8.786	35.218	4.41	0.23	27.323	0.397	1490.
258	259.9	8.786	35.217	4.43	0.22	27.323	0.399	1490.
260	262.0	8.784	35.217	4.41	0.23	27.324	0.401	1490.
262	264.0	8.788	35.218	4.40	0.23	27.323	0.402	1490.
264	266.0	8.795	35.218	4.42	0.24	27.322	0.404	1490.
266	268.1	8.800	35.218	4.40	0.24	27.322	0.405	1490.
268	269.9	8.793	35.218	4.43	0.24	27.322	0.407	1490.
270	272.0	8.790	35.218	4.38	0.25	27.323	0.409	1490.
272	274.1	8.785	35.217	4.40	0.24	27.323	0.410	1490.
274	275.9	8.781	35.216	4.42	0.24	27.323	0.412	1490.
276	278.0	8.790	35.218	4.37	0.25	27.323	0.413	1490.
278	280.2	8.785	35.217	4.38	0.24	27.323	0.415	1490.
280	281.9	8.788	35.218	4.40	0.24	27.323	0.416	1490.
282	284.1	8.782	35.217	4.36	0.25	27.323	0.418	1490.
284	286.0	8.782	35.218	4.39	0.24	27.324	0.420	1490.
286	288.0	8.805	35.219	4.39	0.25	27.322	0.421	1490.
288	290.1	8.808	35.218	4.36	0.25	27.320	0.423	1491.
290	292.0	8.802	35.219	4.38	0.25	27.321	0.424	1491.
292	294.1	8.792	35.218	4.38	0.25	27.322	0.426	1491.
293	295.9	8.786	35.217	4.39	0.25	27.323	0.428	1491.
296	298.0	8.789	35.217	4.36	0.26	27.322	0.429	1491.

SHIP OC	CRUISE 122	STATION 31	DATE 13 JUL 1982	EST 0135	LATITUDE 40°31.7'N	LONGITUDE 67°42.3'W	DEPTH 145		
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	0.8	22.519	35.270	4.80	0.21	24.278	0.000	1529.	9.1
2	2.0	22.517	35.270	4.80	0.21	24.278	0.004	1529.	9.1
4	3.8	22.497	35.267	4.81	0.21	24.282	0.011	1529.	9.1
6	6.1	21.634	35.208	4.93	0.21	24.479	0.019	1526.	9.1
8	7.9	21.469	35.244	4.93	0.22	24.553	0.025	1526.	9.1
10	10.0	21.454	35.248	4.99	0.22	24.560	0.032	1526.	9.8
12	12.1	21.424	35.245	4.97	0.22	24.566	0.039	1526.	10.4
14	14.0	21.358	35.229	4.92	0.22	24.572	0.046	1526.	10.7
16	15.9	21.010	35.228	4.98	0.22	24.666	0.052	1525.	11.7
18	18.0	20.835	35.413	5.01	0.21	24.855	0.059	1525.	12.4
20	20.0	20.686	35.506	5.08	0.21	24.966	0.065	1524.	12.9
22	22.0	20.154	35.468	5.17	0.22	25.079	0.071	1523.	12.7
24	24.0	19.566	35.401	5.24	0.22	25.183	0.076	1521.	11.9
26	26.0	18.997	35.281	5.36	0.22	25.238	0.082	1519.	10.8
28	27.9	18.745	35.301	5.39	0.22	25.317	0.087	1519.	10.1
30	30.0	18.645	35.321	5.37	0.23	25.358	0.093	1519.	9.5
32	32.0	18.540	35.358	5.40	0.24	25.412	0.098	1518.	8.9
34	34.0	18.376	35.359	5.43	0.26	25.455	0.103	1518.	8.6
36	36.0	18.149	35.355	5.42	0.27	25.508	0.108	1517.	8.3
38	38.0	18.002	35.384	5.41	0.27	25.567	0.113	1517.	8.0
40	40.0	18.013	35.400	5.35	0.27	25.576	0.118	1517.	8.2
42	42.0	17.342	35.244	5.42	0.26	25.620	0.122	1515.	9.1
44	44.1	16.942	35.172	5.42	0.23	25.661	0.127	1514.	9.9
46	46.0	16.754	35.144	5.44	0.22	25.684	0.132	1513.	10.7
47	47.8	16.131	35.088	5.49	0.20	25.786	0.136	1511.	11.3
50	50.1	15.491	35.106	5.46	0.18	25.945	0.141	1509.	11.4
51	51.8	15.186	35.116	5.40	0.16	26.021	0.144	1508.	11.0
54	54.1	14.689	35.097	5.31	0.15	26.115	0.148	1507.	10.5
55	55.9	14.440	35.096	5.22	0.15	26.169	0.152	1506.	9.4
58	58.1	14.475	35.128	5.05	0.15	26.186	0.156	1506.	8.1
60	60.0	14.253	35.087	5.09	0.14	26.202	0.159	1505.	7.2
61	61.9	14.082	35.103	5.04	0.14	26.250	0.163	1505.	6.4
64	64.0	13.986	35.115	5.02	0.14	26.280	0.167	1505.	6.0
65	66.0	13.953	35.125	4.97	0.13	26.294	0.170	1505.	5.7
68	68.1	13.952	35.140	4.91	0.13	26.306	0.174	1505.	5.2
69	70.0	13.782	35.119	4.90	0.14	26.326	0.177	1504.	4.6
71	72.0	13.699	35.117	4.90	0.14	26.342	0.180	1504.	4.2
73	74.0	13.691	35.120	4.87	0.14	26.345	0.184	1504.	4.2
75	76.0	13.670	35.119	4.83	0.14	26.349	0.187	1504.	4.2
77	78.0	13.611	35.118	4.82	0.14	26.360	0.190	1504.	4.3
79	80.0	13.557	35.118	4.81	0.14	26.371	0.194	1503.	4.6
81	82.1	13.482	35.120	4.79	0.14	26.389	0.197	1503.	5.0
83	83.8	13.450	35.132	4.77	0.14	26.405	0.200	1503.	5.3
85	86.1	13.496	35.176	4.69	0.14	26.429	0.204	1503.	5.6
87	87.9	13.474	35.185	4.72	0.14	26.440	0.207	1503.	5.9
89	90.0	13.370	35.189	4.68	0.14	26.465	0.210	1503.	6.0
91	92.0	13.267	35.194	4.66	0.14	26.489	0.213	1503.	6.1
93	94.0	13.176	35.203	4.66	0.14	26.515	0.216	1503.	6.4
95	96.0	13.039	35.210	4.61	0.14	26.548	0.219	1502.	6.9
97	97.9	12.990	35.213	4.58	0.13	26.560	0.222	1502.	7.5

SHIP	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH					
OC	122	35	13 JUL 1982	0300	40°31.7'N	67°43.1'W	265					
DEPTH	PRESS	TEMP	SALIN	OXY	ATN	SIGT	DYHT	A	S	SPD	N	cph
m	dbar	°C	psu	ml/l	m ⁻¹	gm/cm ³	10m ² /s ²	10m ² /s ²	m/s			
198	200.0	10.955	35.367	4.18	0.18	27.070	0.341	1497.	5.1			
200	202.0	10.707	35.343	4.26	0.18	27.096	0.343	1496.	5.3			
202	204.0	10.525	35.330	4.25	0.19	27.118	0.345	1495.	5.4			
204	206.0	10.416	35.321	4.24	0.19	27.131	0.347	1495.	5.3			
206	208.0	10.149	35.302	4.26	0.19	27.163	0.349	1494.	5.0			
208	210.1	10.128	35.305	4.22	0.20	27.168	0.351	1494.	4.5			
209	211.2	10.124	35.305	4.28	0.19	27.170	0.352	1494.	3.9			
210	212.0	10.125	35.306	4.26	0.19	27.170	0.353	1494.	3.2			
211	213.1	10.118	35.305	4.25	0.19	27.170	0.354	1494.	3.2			
212	214.0	10.117	35.305	4.18	0.19	27.171	0.355	1494.	3.2			
213	215.1	10.112	35.305	4.17	0.19	27.171	0.356	1494.	3.2			
214	215.6	10.118	35.306	4.21	0.19	27.171	0.356	1494.	3.2			

SHIP	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH
OC	122	35	13 JUL 1982	0300	40°31.7'N	67°43.1'W	265
DEPTH	PRESS	TEMP	SALIN	OXY	ATN	DYHT A	S SPD
m	dbar	°C	psu	ml/l	m ⁻¹	10m ² /s ²	m/s
107	107.9	13.156	35.499	4.61	0.10	26.748	0.203
109	110.0	13.031	35.507	4.56	0.10	26.780	0.206
111	111.9	13.019	35.508	4.53	0.10	26.783	0.208
113	114.1	13.012	35.508	4.51	0.10	26.785	0.211
115	115.9	12.994	35.504	4.51	0.10	26.785	0.213
117	118.1	12.917	35.502	4.48	0.10	26.799	0.216
119	119.8	12.796	35.491	4.50	0.10	26.815	0.218
121	122.0	12.753	35.498	4.45	0.10	26.829	0.221
123	124.0	12.733	35.498	4.46	0.10	26.833	0.224
125	126.0	12.721	35.501	4.42	0.10	26.838	0.226
127	128.0	12.714	35.501	4.42	0.10	26.840	0.228
129	130.0	12.697	35.500	4.44	0.10	26.841	0.231
131	132.1	12.683	35.499	4.40	0.10	26.844	0.234
133	133.9	12.657	35.494	4.42	0.10	26.845	0.236
135	136.1	12.639	35.493	4.40	0.11	26.848	0.238
137	137.9	12.619	35.493	4.40	0.11	26.852	0.241
139	140.1	12.552	35.489	4.37	0.11	26.862	0.243
141	141.8	12.513	35.487	4.38	0.11	26.868	0.245
143	144.1	12.405	35.483	4.34	0.11	26.889	0.248
145	145.9	12.355	35.483	4.34	0.11	26.896	0.250
147	148.0	12.335	35.484	4.31	0.11	26.901	0.253
149	150.1	12.316	35.481	4.31	0.11	26.902	0.255
151	151.9	12.285	35.478	4.31	0.11	26.906	0.257
153	154.1	12.269	35.479	4.29	0.11	26.909	0.260
155	155.8	12.257	35.478	4.30	0.12	26.911	0.262
157	158.0	12.233	35.477	4.30	0.11	26.915	0.265
159	160.0	12.223	35.476	4.28	0.11	26.916	0.267
161	162.0	12.214	35.475	4.26	0.11	26.918	0.269
163	164.0	12.207	35.475	4.26	0.11	26.919	0.271
165	166.0	12.175	35.473	4.26	0.11	26.923	0.274
167	168.1	12.127	35.470	4.26	0.11	26.930	0.276
169	169.9	12.081	35.465	4.25	0.11	26.936	0.278
171	172.0	11.889	35.447	4.25	0.12	26.958	0.281
173	174.0	11.783	35.438	4.24	0.12	26.972	0.283
175	175.9	11.752	35.435	4.23	0.12	26.975	0.285
177	178.0	11.715	35.431	4.23	0.13	26.979	0.288
179	180.0	11.701	35.430	4.24	0.13	26.981	0.290
180	181.2	11.687	35.428	4.23	0.13	26.982	0.291
181	182.0	11.681	35.427	4.24	0.13	26.982	0.292
182	183.0	11.673	35.426	4.23	0.13	26.983	0.293
182	184.0	11.665	35.425	4.23	0.13	26.984	0.294
184	185.0	11.659	35.424	4.24	0.14	26.984	0.295
184	186.0	11.640	35.420	4.25	0.13	26.985	0.296
185	187.0	11.617	35.416	4.26	0.14	26.986	0.297
186	188.0	11.605	35.416	4.26	0.14	26.988	0.299
187	189.0	11.598	35.413	4.25	0.14	26.987	0.300
188	190.0	11.582	35.411	4.25	0.14	26.989	0.301
189	191.0	11.566	35.409	4.25	0.14	26.990	0.302
190	192.0	11.559	35.408	4.26	0.14	26.990	0.303
191	193.0	11.547	35.406	4.27	0.14	26.991	0.304

SHIP OC	CRUISE 122	STATION 36	DATE 13 JUL 1982	EST 0352	LATITUDE 40°32.1'N	LONGITUDE 67°44.2'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
2	2.1	21.881	35.289	4.90	0.21	24.472	0.000	1527.	7.5
4	3.9	21.757	35.300	4.99	0.21	24.515	0.006	1527.	7.5
6	6.1	21.664	35.326	5.04	0.21	24.560	0.014	1526.	7.5
8	8.0	21.709	35.322	5.04	0.21	24.546	0.020	1527.	7.5
10	9.9	21.489	35.404	5.04	0.21	24.669	0.027	1526.	7.5
12	12.0	21.421	35.402	4.99	0.22	24.686	0.033	1526.	7.8
14	14.0	21.382	35.396	5.01	0.21	24.692	0.040	1526.	8.2
16	16.0	21.300	35.386	5.00	0.22	24.707	0.046	1526.	8.7
18	18.0	21.112	35.391	5.02	0.22	24.762	0.053	1525.	9.2
20	20.0	20.820	35.402	5.07	0.21	24.850	0.059	1524.	10.2
22	22.0	20.719	35.447	5.05	0.20	24.912	0.065	1524.	11.3
24	24.0	20.628	35.497	5.07	0.21	24.974	0.071	1524.	11.9
26	26.0	20.110	35.500	5.18	0.22	25.115	0.077	1523.	12.0
28	28.0	19.811	35.495	5.23	0.23	25.190	0.083	1522.	12.1
30	30.0	19.271	35.494	5.30	0.24	25.330	0.088	1520.	12.3
32	32.0	19.069	35.526	5.28	0.27	25.407	0.093	1520.	12.0
34	34.0	18.954	35.548	5.27	0.28	25.453	0.098	1520.	11.3
36	36.0	18.469	35.535	5.35	0.28	25.566	0.103	1518.	10.6
38	37.9	17.731	35.444	5.37	0.27	25.680	0.108	1516.	10.1
40	40.1	17.399	35.372	5.37	0.25	25.705	0.113	1515.	10.0
42	42.0	16.951	35.250	5.40	0.25	25.719	0.117	1514.	10.1
44	43.9	16.356	35.118	5.48	0.21	25.757	0.122	1512.	9.8
46	46.0	15.838	35.110	5.48	0.19	25.870	0.126	1510.	9.8
48	48.1	15.541	35.104	5.44	0.17	25.933	0.130	1509.	10.0
50	49.9	15.021	35.073	5.40	0.16	26.024	0.134	1508.	9.9
52	52.0	14.604	35.010	5.39	0.15	26.067	0.138	1506.	9.3
54	54.1	14.332	35.007	5.33	0.15	26.123	0.142	1505.	8.4
56	56.0	14.271	35.021	5.26	0.15	26.147	0.146	1505.	7.7
58	58.0	13.905	34.972	5.28	0.14	26.186	0.150	1504.	7.0
60	60.0	13.864	34.982	5.20	0.14	26.202	0.153	1504.	6.7
62	62.0	13.842	35.016	5.13	0.14	26.233	0.157	1504.	6.2
63	63.9	13.827	35.036	5.10	0.14	26.252	0.160	1504.	5.9
66	66.0	13.709	35.046	5.09	0.14	26.285	0.164	1504.	5.5
67	67.9	13.777	35.092	5.01	0.14	26.306	0.167	1504.	5.1
70	70.1	13.803	35.104	4.94	0.14	26.310	0.171	1504.	4.5
71	71.9	13.732	35.097	4.91	0.14	26.319	0.174	1504.	4.2
74	74.1	13.630	35.084	4.90	0.14	26.330	0.178	1504.	4.0
75	75.8	13.579	35.074	4.91	0.14	26.333	0.181	1503.	4.4
77	78.0	13.521	35.067	4.81	0.14	26.339	0.185	1503.	4.9
79	80.1	13.471	35.075	4.83	0.14	26.356	0.188	1503.	5.3
81	82.0	13.400	35.084	4.84	0.14	26.377	0.191	1503.	5.6
83	84.0	13.360	35.123	4.80	0.14	26.415	0.195	1503.	6.0
85	86.0	13.358	35.146	4.79	0.14	26.434	0.198	1503.	6.2
87	88.1	13.310	35.159	4.75	0.14	26.454	0.201	1503.	6.2
89	89.9	13.209	35.162	4.69	0.14	26.477	0.204	1503.	6.1
91	92.1	13.077	35.168	4.69	0.14	26.508	0.207	1502.	6.3
93	94.0	13.058	35.193	4.68	0.13	26.531	0.210	1502.	6.5
95	96.0	13.189	35.252	4.61	0.13	26.550	0.213	1503.	6.6
97	98.1	13.407	35.338	4.57	0.12	26.573	0.216	1504.	6.6
99	100.0	13.661	35.471	4.53	0.11	26.623	0.219	1505.	6.4

STA 37				DAY: 13		TIME: 0520	
DEPTH	TEMP	DEPTH	TEMP	DEPTH	TEMP	DEPTH	TEMP
(m)	(°C)	(m)	(°C)	(m)	(°C)	(m)	(°C)
0.0	22.6	28.2	18.8	48.6	14.8	91.2	13.1
1.0	22.5	28.2	18.7	48.6	14.7	92.1	13.1
1.0	22.4	29.2	18.7	48.6	14.6	93.1	13.0
1.0	22.3	30.2	18.6	48.6	14.6	93.1	13.0
1.0	22.2	31.1	18.6	49.6	14.4	94.1	13.0
1.0	22.1	32.1	18.6	49.6	14.3	95.0	13.0
1.9	22.0	33.1	18.6	50.6	14.2	96.0	12.9
1.9	21.9	34.1	18.6	50.6	14.1	97.0	12.9
1.9	21.9	35.0	18.6	50.6	14.1	97.9	12.9
1.9	21.8	35.0	18.6	51.5	14.0	99.9	12.9
2.9	21.8	36.0	18.6	52.5	14.0	99.9	12.9
4.9	21.7	36.0	18.5	54.4	14.0	102.8	12.9
5.8	21.7	37.0	18.5	55.4	14.0	104.7	12.8
5.8	21.8	37.9	18.5	56.4	13.9	105.6	12.8
6.8	21.8	37.9	18.4	57.3	13.9	107.6	12.8
7.8	21.8	37.9	18.3	57.3	13.8	108.5	12.7
9.7	21.7	37.9	18.2	58.3	13.8	109.5	12.7
10.7	21.7	37.9	18.2	59.3	13.7	110.5	12.7
11.7	21.5	37.9	18.1	61.2	13.7	111.4	12.6
12.7	21.5	37.9	18.0	63.1	13.7	112.4	12.5
13.6	21.4	38.9	17.9	64.1	13.7	113.4	12.5
13.6	21.3	38.9	17.8	64.1	13.7	115.3	12.5
14.6	21.2	38.9	17.7	66.0	13.6	116.2	12.4
14.6	21.1	39.9	17.5	67.0	13.6	116.2	12.4
14.6	21.0	39.9	17.5	68.0	13.6	117.2	12.4
15.6	20.9	39.9	17.3	68.0	13.5	119.1	12.4
16.6	20.9	40.9	17.2	69.0	13.4	120.1	12.3
17.5	20.9	40.9	17.2	69.0	13.4		
18.5	20.9	40.9	17.1	69.9	13.3		
18.5	20.8	41.8	17.0	70.9	13.3		
19.5	20.6	41.8	16.9	71.9	13.3		
19.5	20.5	42.8	16.8	72.8	13.3		
19.5	20.4	42.8	16.6	72.8	13.2		
20.4	20.2	42.8	16.5	73.8	13.2		
20.4	20.1	43.8	16.4	74.8	13.3		
21.4	20.0	43.8	16.2	75.7	13.3		
21.4	20.0	43.8	16.1	75.7	13.4		
23.4	20.0	44.7	16.1	77.7	13.4		
24.3	20.0	44.7	16.0	77.7	13.4		
25.3	19.9	44.7	15.9	77.7	13.3		
26.3	19.8	44.7	15.9	78.6	13.3		
26.3	19.8	44.7	15.9	79.6	13.3		
26.3	19.7	45.7	15.8	80.6	13.3		
26.3	19.6	45.7	15.7	81.5	13.3		
26.3	19.5	46.7	15.7	82.5	13.3		
27.3	19.4	46.7	15.5	83.5	13.2		
27.3	19.3	46.7	15.4	84.4	13.2		
27.3	19.2	46.7	15.3	85.4	13.1		
27.3	19.1	46.7	15.1	86.4	13.1		
27.3	19.0	47.6	15.0	87.3	13.1		
28.2	18.9	48.6	14.9	89.2	13.1		

SHIP	CRUISE	STATION	DATE		EST	LATITUDE		LONGITUDE		DEPTH
OC	122	38	13 JUL 1982		0437	40°33.6'N		67°44.5'W		108
DEPTH	PRSS	TEMP	SALIN	OXY	ATN	SIGT	DYHT	S	SPD	N
m	dbar	°C	psu	ml/l	m ⁻¹	gm/cm ³	10m ² /s ²	m/s	m/s	cph
2	2.4	22.263	35.306	4.97	0.20	24.378	0.000	1528.	8.2	
4	3.9	22.290	35.304	4.94	0.20	24.369	0.006	1528.	8.2	
6	6.0	22.036	35.299	5.04	0.21	24.437	0.013	1527.	8.2	
8	8.0	21.725	35.277	5.14	0.21	24.507	0.020	1527.	8.2	
10	10.1	21.598	35.311	5.16	0.22	24.568	0.027	1526.	9.0	
12	12.0	21.581	35.318	5.10	0.22	24.578	0.033	1526.	9.0	
14	14.1	21.489	35.303	5.01	0.23	24.592	0.040	1526.	9.5	
16	15.9	21.244	35.241	5.05	0.22	24.612	0.046	1525.	10.5	
18	18.0	20.665	35.179	5.13	0.21	24.722	0.053	1524.	11.5	
20	20.0	20.602	35.342	5.15	0.20	24.864	0.059	1524.	12.2	
22	21.9	20.341	35.356	5.18	0.20	24.944	0.065	1523.	12.6	
24	24.1	19.691	35.326	5.28	0.21	25.093	0.072	1521.	12.8	
26	25.9	19.577	35.404	5.32	0.21	25.182	0.077	1521.	12.6	
28	28.1	19.444	35.463	5.34	0.21	25.262	0.083	1521.	12.0	
30	29.8	19.168	35.439	5.39	0.23	25.315	0.087	1520.	11.3	
32	32.1	18.392	35.386	5.49	0.27	25.471	0.093	1518.	10.6	
34	33.9	18.152	35.385	5.49	0.27	25.530	0.098	1517.	9.9	
36	35.9	18.014	35.377	5.43	0.26	25.558	0.103	1517.	9.5	
38	38.1	17.691	35.316	5.45	0.25	25.591	0.108	1516.	9.4	
39	39.8	17.279	35.239	5.49	0.25	25.632	0.112	1515.	9.4	
42	42.3	16.776	35.146	5.52	0.24	25.681	0.118	1513.	10.0	
44	43.9	16.384	35.104	5.55	0.22	25.740	0.122	1512.	10.7	
46	46.1	15.365	34.963	5.65	0.19	25.863	0.126	1509.	11.1	
48	47.9	14.699	34.872	5.66	0.17	25.940	0.130	1506.	11.1	
50	50.0	14.141	34.832	5.58	0.16	26.028	0.134	1505.	10.7	
52	52.1	13.913	34.882	5.55	0.14	26.115	0.138	1504.	9.7	
54	53.9	13.792	34.910	5.44	0.14	26.162	0.142	1504.	8.5	
56	55.9	13.609	34.905	5.36	0.14	26.196	0.146	1503.	7.3	
58	58.0	13.487	34.888	5.30	0.14	26.208	0.149	1503.	6.0	
60	60.1	13.411	34.880	5.31	0.14	26.217	0.153	1502.	4.9	
61	62.0	13.413	34.895	5.26	0.14	26.228	0.157	1502.	4.4	
63	64.0	13.423	34.899	5.24	0.14	26.229	0.160	1503.	4.2	
65	66.0	13.425	34.910	5.22	0.14	26.238	0.164	1503.	4.3	
67	68.0	13.346	34.923	5.24	0.14	26.264	0.167	1502.	4.5	
69	70.0	13.287	34.924	5.16	0.15	26.277	0.171	1502.	4.6	
71	72.0	13.173	34.906	5.16	0.15	26.286	0.174	1502.	4.6	
73	73.9	13.148	34.919	5.09	0.16	26.301	0.178	1502.	4.6	
76	76.1	13.057	34.916	5.09	0.16	26.317	0.181	1502.	4.4	
77	77.9	13.048	34.920	5.06	0.17	26.322	0.184	1502.	4.3	
79	80.1	13.013	34.927	5.01	0.17	26.334	0.188	1501.	4.2	
81	81.9	13.185	35.001	4.96	0.16	26.357	0.191	1501.	4.1	
83	84.1	13.217	35.012	4.94	0.16	26.359	0.195	1502.	4.0	
85	85.9	13.194	35.012	4.90	0.16	26.363	0.198	1502.	3.9	
87	88.1	13.189	35.030	4.88	0.16	26.378	0.202	1502.	3.7	
89	89.9	13.184	35.039	4.86	0.16	26.386	0.205	1502.	3.4	
91	91.2	13.174	35.039	4.81	0.16	26.389	0.207	1502.	3.6	
91	92.0	13.159	35.038	4.82	0.17	26.391	0.208	1502.	3.5	
92	93.1	13.149	35.038	4.83	0.17	26.393	0.210	1502.	3.2	
93	93.9	13.142	35.042	4.83	0.17	26.397	0.211	1502.	3.0	
94	94.9	13.137	35.047	4.82	0.17	26.402	0.213	1502.	3.0	

SHIP	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH	STA	39	DAY:	13	TIME: 0602							
OC	122	38	13 JUL 1982	0437	40°33.6'N	67°44.5'W	108												
DEPTH	PRESS	TEMP	SALIN	OXY	ATN	SIGT	DYHT	A	S	SPD	TEMP	DEPTH	TEMP	DEPTH	TEMP				
m	dbar	°C	psu	ml/l	m ⁻¹	gm/cm ³	10m ² /s ²			m/s	(°C)	(m)	(°C)	(m)	(°C)				
95	96.0	13.165	35.059	4.80	0.16	26.406	0.215	1502.	2.8			0.0	22.4	21.4	19.0	37.9	14.7	74.8	13.0
96	97.0	13.169	35.060	4.79	0.17	26.406	0.216	1502.	2.7			1.0	22.4	22.4	19.1	38.9	14.8	76.7	13.0
97	98.1	13.172	35.063	4.80	0.16	26.407	0.218	1502.	2.7			1.9	22.3	23.4	19.1	39.9	14.8	78.6	13.0
98	99.0	13.176	35.066	4.78	0.16	26.409	0.220	1502.	2.7			1.9	22.2	25.3	19.2	39.9	14.6	80.6	13.0
99	100.0	13.177	35.068	4.80	0.16	26.411	0.221	1503.	2.7			2.9	22.1	25.3	19.1	39.9	14.6	83.5	13.0
100	100.6	13.178	35.069	4.81	0.16	26.411	0.222	1503.	2.7			2.9	22.0	25.3	18.8	41.8	14.5	86.4	13.0
												3.9	22.0	26.3	18.7	43.8	14.4	88.3	13.0
												3.9	21.9	27.3	18.7	44.7	14.4	90.2	13.0
												4.9	21.9	26.3	18.6	45.7	14.3	91.2	13.0
												5.8	21.9	27.3	18.5	45.7	14.3		
												6.8	21.9	27.3	18.4	45.7	14.2		
												7.8	21.8	27.3	18.3	46.7	14.2		
												7.8	21.7	28.2	18.2	47.6	14.1		
												8.8	21.6	29.2	18.2	47.6	13.9		
												9.7	21.5	30.2	18.2	47.6	13.8		
												10.7	21.5	32.1	18.2	48.6	13.8		
												11.7	21.4	33.1	18.1	48.6	13.7		
												11.7	21.2	33.1	18.1	49.6	13.6		
												12.7	21.1	34.1	18.0	49.6	13.6		
												12.7	20.9	35.0	17.9	50.6	13.5		
												12.7	20.8	36.0	17.9	50.6	13.4		
												12.7	20.6	36.0	17.7	51.5	13.3		
												13.6	20.5	36.0	17.6	51.5	13.3		
												13.6	20.4	36.0	17.4	51.5	13.1		
												13.6	20.2	36.0	17.3	51.5	13.1		
												13.6	20.1	36.0	17.2	52.5	13.0		
												14.6	20.0	36.0	17.0	53.5	12.9		
												14.6	20.0	36.0	16.9	55.4	12.9		
												14.6	19.9	37.0	16.7	56.4	12.8		
												15.6	19.7	36.0	16.6	56.4	12.8		
												15.6	19.7	37.0	16.5	58.3	12.8		
												16.6	19.6	37.0	16.4	59.3	12.8		
												16.6	19.5	37.0	16.3	60.2	12.7		
												16.6	19.5	36.0	16.2	61.2	12.7		
												17.5	19.6	37.0	16.0	62.2	12.7		
												17.5	19.7	37.0	16.0	63.1	12.7		
												17.5	19.8	37.0	15.9	64.1	12.7		
												18.5	19.9	37.0	15.7	64.1	12.7		
												18.5	20.0	37.0	15.6	66.0	12.8		
												19.5	19.8	37.0	15.5	66.0	12.8		
												19.5	19.7	37.0	15.4	67.0	12.8		
												19.5	19.6	37.0	15.3	68.0	12.9		
												20.4	19.5	37.9	15.1	69.0	12.9		
												20.4	19.4	37.9	15.0	69.9	12.9		
												20.4	19.2	37.9	15.0	70.9	12.9		
												20.4	19.1	37.9	14.9	71.9	12.9		
												21.4	19.1	37.9	14.8	73.8	12.9		

SHIP	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH			
OC	122	40	13 JUL 1982	0557	40°39.4'N	67°45.7'W	78			
DEPTH	PRESS	TEMP	SALIN	OXY	ATN	SIGT	DYHT A	S SPD	N	DEPTH
m	dbar	°C	psu	ml/l	m ⁻¹	gm/cm ³	10m ² /s ²	m/s	cph	m
2	2.3	22.273	35.290	5.00	0.20	24.363	0.000	1528.	7.9	7.9
4	4.2	22.260	35.282	5.00	0.19	24.360	0.007	1528.	7.9	7.9
6	5.9	22.232	35.276	4.95	0.19	24.364	0.013	1528.	7.9	7.9
8	8.1	22.033	35.213	4.98	0.19	24.372	0.021	1527.	7.9	7.9
10	10.0	21.699	35.136	5.03	0.19	24.407	0.027	1526.	7.9	7.9
12	12.0	21.237	34.992	5.14	0.19	24.425	0.035	1525.	9.6	9.6
14	13.9	20.425	34.776	5.30	0.20	24.479	0.041	1523.	11.0	11.0
16	16.1	19.047	34.434	5.55	0.20	24.578	0.049	1518.	11.9	11.9
18	17.9	18.149	34.316	5.77	0.19	24.713	0.054	1516.	12.5	12.5
20	20.1	17.689	34.347	5.94	0.19	24.849	0.061	1514.	12.7	12.7
22	21.9	17.378	34.389	6.02	0.19	24.956	0.067	1514.	12.4	12.4
24	24.0	16.901	34.321	6.07	0.20	25.018	0.073	1512.	12.0	12.0
26	25.9	16.195	34.258	6.21	0.21	25.133	0.079	1510.	11.9	11.9
28	28.0	16.146	34.309	6.23	0.22	25.184	0.085	1510.	11.9	11.9
30	30.1	15.922	34.308	6.24	0.22	25.234	0.090	1509.	12.0	12.0
32	31.9	15.082	34.198	6.42	0.25	25.336	0.095	1507.	11.9	11.9
34	34.1	14.446	34.240	6.47	0.26	25.507	0.101	1505.	11.4	11.4
36	35.9	14.245	34.301	6.45	0.26	25.596	0.105	1504.	10.9	10.9
38	38.0	14.029	34.326	6.45	0.26	25.661	0.110	1503.	10.0	10.0
40	40.0	13.960	34.349	6.36	0.26	25.693	0.115	1503.	8.7	8.7
42	42.1	13.901	34.355	6.27	0.26	25.710	0.119	1503.	7.9	7.9
44	44.0	13.729	34.334	6.21	0.27	25.729	0.124	1503.	7.9	7.9
46	46.1	13.581	34.330	6.17	0.26	25.757	0.129	1502.	8.2	8.2
48	48.0	13.402	34.333	6.11	0.25	25.796	0.133	1502.	8.4	8.4
50	50.0	12.977	34.355	6.12	0.21	25.898	0.137	1500.	8.3	8.3
52	52.0	12.905	34.406	5.89	0.19	25.952	0.141	1500.	8.0	8.0
53	53.9	12.849	34.439	5.70	0.19	25.989	0.145	1500.	7.4	7.4
56	56.0	12.838	34.447	5.58	0.19	25.997	0.149	1500.	6.5	6.5
57	58.0	12.798	34.446	5.51	0.19	26.005	0.153	1500.	5.2	5.2
60	60.0	12.805	34.467	5.46	0.20	26.019	0.157	1500.	4.5	4.5
61	61.3	12.806	34.469	5.49	0.19	26.021	0.160	1500.	4.1	4.1
62	62.0	12.796	34.473	5.49	0.20	26.025	0.161	1500.	4.4	4.4
63	63.0	12.765	34.477	5.49	0.20	26.035	0.163	1500.	4.7	4.7
63	64.0	12.763	34.482	5.44	0.19	26.039	0.165	1500.	4.8	4.8
65	65.0	12.739	34.490	5.42	0.19	26.050	0.167	1500.	4.9	4.9
66	66.0	12.708	34.498	5.43	0.20	26.063	0.169	1500.	4.6	4.6
66	67.0	12.694	34.501	5.44	0.19	26.068	0.171	1500.	4.1	4.1
67	67.9	12.685	34.502	5.44	0.20	26.070	0.173	1500.	3.7	3.7
68	69.0	12.676	34.504	5.41	0.20	26.074	0.175	1500.	3.0	3.0
69	70.0	12.673	34.505	5.39	0.20	26.075	0.177	1500.	2.3	2.3
70	71.0	12.670	34.505	5.41	0.20	26.075	0.179	1500.	2.0	2.0
71	72.0	12.667	34.506	5.38	0.20	26.077	0.181	1500.	1.7	1.7
72	73.0	12.660	34.505	5.41	0.20	26.078	0.183	1500.	1.4	1.4
73	74.0	12.660	34.505	5.38	0.20	26.077	0.185	1500.	1.2	1.2
74	75.0	12.658	34.505	5.37	0.20	26.078	0.187	1500.	1.2	1.2
75	76.0	12.656	34.505	5.37	0.20	26.078	0.189	1500.	1.2	1.2
76	77.0	12.651	34.505	5.38	0.20	26.079	0.191	1500.	1.2	1.2
78	78.1	12.651	34.503	5.35	0.20	26.078	0.193	1500.	1.2	1.2

SHIP	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH			
OC	122	41	13 JUL 1982	0834	40°40.0'N	67°51.0'W	95			
DEPTH	PRESS	TEMP	SALIN	OXY	ATN	SIGT	DYHT A	S SPD	N	DEPTH
m	dbar	°C	psu	ml/l	m ⁻¹	gm/cm ³	10m ² /s ²	m/s	cph	m
2	2.4	22.313	35.282	5.06	0.20	24.345	0.000	1528.	11.1	11.1
4	4.1	22.162	35.293	4.95	0.20	24.397	0.006	1528.	11.1	11.1
6	5.9	21.803	35.278	5.06	0.21	24.486	0.012	1527.	11.1	11.1
8	7.9	21.720	35.323	5.07	0.22	24.543	0.019	1527.	11.1	11.1
10	10.0	21.734	35.407	5.11	0.22	24.603	0.027	1527.	11.1	11.1
12	12.0	21.636	35.421	5.10	0.22	24.641	0.032	1527.	11.1	11.1
14	14.1	21.189	35.499	5.17	0.22	24.823	0.040	1525.	11.3	11.3
16	15.9	21.006	35.511	5.22	0.22	24.882	0.045	1525.	11.6	11.6
18	18.0	20.840	35.528	5.24	0.22	24.941	0.051	1525.	11.7	11.7
20	20.1	20.638	35.538	5.31	0.22	25.003	0.058	1524.	11.8	11.8
22	22.1	20.152	35.540	5.40	0.22	25.135	0.064	1523.	11.3	11.3
24	23.8	19.914	35.553	5.41	0.23	25.208	0.068	1522.	11.1	11.1
26	26.0	19.617	35.557	5.44	0.24	25.289	0.074	1521.	10.5	10.5
28	28.0	18.915	35.469	5.56	0.25	25.403	0.080	1519.	9.9	9.9
30	30.0	18.749	35.448	5.50	0.25	25.429	0.085	1519.	9.5	9.5
32	31.9	18.645	35.429	5.53	0.26	25.441	0.090	1519.	9.2	9.2
34	34.1	18.525	35.414	5.46	0.27	25.459	0.095	1518.	9.1	9.1
36	35.9	18.180	35.402	5.52	0.29	25.537	0.100	1517.	9.1	9.1
38	38.0	17.840	35.436	5.55	0.29	25.646	0.105	1516.	9.5	9.5
40	40.0	17.244	35.281	5.58	0.27	25.672	0.109	1515.	9.9	9.9
42	42.1	16.600	35.149	5.52	0.25	25.724	0.113	1512.	10.2	10.2
44	44.0	16.312	35.124	5.49	0.23	25.791	0.118	1512.	10.7	10.7
46	46.1	15.933	35.124	5.54	0.21	25.859	0.123	1510.	11.1	11.1
48	48.1	15.327	35.036	5.45	0.19	25.928	0.127	1509.	11.2	11.2
49	49.8	14.800	34.988	5.39	0.18	26.007	0.131	1507.	10.9	10.9
52	52.0	13.799	34.955	5.42	0.16	26.195	0.135	1504.	10.3	10.3
53	53.9	13.682	34.973	5.37	0.15	26.233	0.138	1503.	9.4	9.4
56	56.0	13.629	34.979	5.15	0.15	26.249	0.142	1503.	8.2	8.2
57	58.0	13.578	34.978	5.11	0.15	26.259	0.146	1503.	6.6	6.6
60	60.0	13.472	34.981	5.03	0.15	26.283	0.149	1503.	4.5	4.5
61	61.3	13.445	34.986	4.97	0.16	26.292	0.153	1503.	3.7	3.7
62	62.0	13.436	34.987	4.99	0.16	26.295	0.156	1503.	3.2	3.2
63	63.0	13.426	34.989	5.02	0.16	26.298	0.160	1503.	2.6	2.6
63	64.0	13.411	34.988	5.04	0.16	26.300	0.163	1503.	1.9	1.9
65	65.0	13.407	34.988	4.95	0.17	26.302	0.166	1503.	1.5	1.5
66	66.0	13.406	34.988	4.94	0.17	26.302	0.170	1503.	1.5	1.5
67	67.9	13.402	34.988	5.03	0.17	26.302	0.173	1503.	1.7	1.7
68	69.0	13.402	34.989	4.93	0.17	26.303	0.177	1503.	1.8	1.8
69	70.0	13.398	34.990	4.96	0.17	26.305	0.180	1503.	1.9	1.9
70	71.0	13.388	34.994	4.95	0.17	26.310	0.184	1503.	2.0	2.0
71	72.0	13.382	34.997	4.95	0.18	26.314	0.186	1503.	2.1	2.1
72	73.0	13.382	34.997	4.94	0.18	26.314	0.187	1503.	2.1	2.1
73	74.0	13.382	34.997	4.94	0.18	26.314	0.189	1503.	2.0	2.0
74	75.0	13.380	34.998	4.96	0.18	26.315	0.191	1503.	1.7	1.7
75	76.0	13.378	34.999	4.98	0.18	26.316	0.192	1503.	1.5	1.5
76	77.0	13.375	34.999	4.95	0.18	26.317	0.194	1503.	1.5	1.5
77	78.0	13.373	35.000	4.93	0.18	26.318	0.196	1503.	1.5	1.5
78	78.1	13.373	35.001	4.92	0.18	26.318	0.198	1503.	1.3	1.3
78	79.0	13.374	35.000	4.95	0.18	26.318	0.199	1503.	1.3	1.3
78	80.0	13.373	35.001	4.97	0.18	26.318	0.201	1503.	1.2	1.2

SHIP OC	CRUISE 122	STATION 41	DATE 13 JUL 1982	EST 0834	LATITUDE 40°40.0'N	LONGITUDE 67°51.0'W	DEPTH 95		
DEPTH m	PRESS dbar	TEMP °C	SALIN psu	OXY ml/l	ATN m ⁻¹	SIGT g/cm ³	DYHT A 10m ² /s ²	S SPD m/s	N cph
90	91.0	13.371	35.001	4.90	0.18	26.319	0.203	1503.	1.1
91	92.0	13.369	35.002	4.89	0.18	26.320	0.204	1503.	1.1
92	93.0	13.369	35.002	4.93	0.18	26.320	0.206	1503.	1.1
93	94.0	13.368	35.002	4.86	0.18	26.320	0.208	1503.	1.1
94	94.5	13.368	35.002	4.84	0.18	26.320	0.209	1503.	1.1

SHIP	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH					
OC	122	42	13 JUL 1982	1042	40°29.5'N	67°49.0'W	113					
DEPTH	PRESS	TEMP	SALIN	OXY	ATN	SIGT	DYHT A	S SPD	EST	LATITUDE	LONGITUDE	DEPTH
m	dbar	°C	psu	ml/l	m ⁻¹	gm/cm ³	10m ² /s ²	m/s	m ⁻¹	gm/cm ³	10m ² /s ²	m/s
100	101.3	13.444	35.441	4.64	0.11	26.645	0.236	1504.	0.11	26.645	0.236	1504.
101	102.0	13.454	35.444	4.63	0.12	26.645	0.237	1504.	0.12	26.645	0.237	1504.
102	102.9	13.444	35.445	4.63	0.12	26.648	0.238	1504.	0.12	26.648	0.238	1504.
103	103.9	13.438	35.453	4.65	0.12	26.655	0.240	1504.	0.12	26.655	0.240	1504.
104	105.0	13.204	35.433	4.66	0.12	26.688	0.241	1503.	0.12	26.688	0.241	1503.
105	106.0	12.841	35.396	4.71	0.13	26.732	0.243	1502.	0.13	26.732	0.243	1502.
106	107.0	12.723	35.387	4.69	0.14	26.749	0.244	1501.	0.14	26.749	0.244	1501.
107	107.9	12.696	35.390	4.59	0.14	26.756	0.245	1501.	0.14	26.756	0.245	1501.
108	109.0	12.645	35.384	4.53	0.15	26.762	0.247	1501.	0.15	26.762	0.247	1501.
109	110.0	12.619	35.381	4.53	0.15	26.765	0.248	1501.	0.15	26.765	0.248	1501.
110	111.0	12.607	35.381	4.37	0.15	26.767	0.249	1501.	0.15	26.767	0.249	1501.
111	112.0	12.592	35.380	4.36	0.15	26.770	0.250	1501.	0.15	26.770	0.250	1501.
112	112.5	12.613	35.384	4.31	0.15	26.769	0.251	1501.	0.15	26.769	0.251	1501.
OC	122	43	13 JUL 1982	1124	40°25.6'N	67°47.3'W	150					
DEPTH	PRESS	TEMP	SALIN	OXY	ATN	SIGT	DYHT A	S SPD	EST	LATITUDE	LONGITUDE	DEPTH
m	dbar	°C	psu	ml/l	m ⁻¹	gm/cm ³	10m ² /s ²	m/s	m ⁻¹	gm/cm ³	10m ² /s ²	m/s
2	2.0	23.455	35.221	4.77	0.18	23.971	0.000	1531.	0.18	23.971	0.000	1531.
4	3.9	23.427	35.220	4.78	0.18	23.978	0.007	1531.	0.18	23.978	0.007	1531.
6	6.0	23.425	35.224	4.81	0.18	23.982	0.016	1531.	0.18	23.982	0.016	1531.
8	8.0	23.366	35.223	4.85	0.19	23.998	0.023	1531.	0.19	23.998	0.023	1531.
10	10.0	23.314	35.230	4.84	0.18	24.019	0.031	1531.	0.18	24.019	0.031	1531.
12	12.0	23.005	35.245	4.88	0.18	24.119	0.039	1530.	0.18	24.119	0.039	1530.
14	13.9	22.500	35.369	4.93	0.19	24.358	0.046	1529.	0.19	24.358	0.046	1529.
16	16.0	22.517	35.374	4.99	0.19	24.357	0.053	1529.	0.19	24.357	0.053	1529.
18	18.0	22.048	35.265	5.03	0.20	24.407	0.061	1528.	0.20	24.407	0.061	1528.
20	20.0	21.971	35.272	5.07	0.21	24.434	0.068	1527.	0.21	24.434	0.068	1527.
22	22.0	21.964	35.278	5.07	0.21	24.440	0.074	1527.	0.21	24.440	0.074	1527.
24	24.0	21.939	35.270	5.13	0.21	24.441	0.082	1527.	0.21	24.441	0.082	1527.
26	26.0	21.676	35.213	5.10	0.21	24.471	0.088	1527.	0.21	24.471	0.088	1527.
28	28.0	20.880	35.291	5.26	0.22	24.750	0.095	1525.	0.22	24.750	0.095	1525.
30	30.0	20.591	35.382	5.29	0.22	24.897	0.101	1524.	0.22	24.897	0.101	1524.
32	32.0	20.477	35.435	5.28	0.22	24.968	0.107	1524.	0.22	24.968	0.107	1524.
34	34.0	20.404	35.503	5.28	0.22	25.039	0.113	1524.	0.22	25.039	0.113	1524.
36	35.9	20.042	35.598	5.32	0.23	25.208	0.119	1523.	0.23	25.208	0.119	1523.
38	38.1	19.579	35.593	5.39	0.26	25.326	0.125	1522.	0.26	25.326	0.125	1522.
40	39.9	19.154	35.582	5.42	0.28	25.428	0.129	1520.	0.28	25.428	0.129	1520.
42	42.0	17.773	35.570	5.57	0.33	25.766	0.134	1516.	0.33	25.766	0.134	1516.
44	44.1	17.209	35.535	5.56	0.33	25.876	0.139	1515.	0.33	25.876	0.139	1515.
46	45.9	17.129	35.541	5.42	0.32	25.900	0.143	1515.	0.32	25.900	0.143	1515.
48	48.0	16.541	35.497	5.47	0.30	26.005	0.147	1513.	0.30	26.005	0.147	1513.
50	50.0	15.862	35.470	5.50	0.24	26.142	0.151	1511.	0.24	26.142	0.151	1511.
52	52.0	15.659	35.470	5.31	0.21	26.188	0.155	1510.	0.21	26.188	0.155	1510.
54	54.0	15.349	35.451	5.23	0.19	26.243	0.158	1509.	0.19	26.243	0.158	1509.
56	56.0	15.188	35.450	5.18	0.18	26.278	0.162	1509.	0.18	26.278	0.162	1509.
58	58.0	15.129	35.452	5.08	0.18	26.293	0.165	1509.	0.18	26.293	0.165	1509.
60	60.0	15.009	35.448	5.02	0.18	26.317	0.169	1508.	0.18	26.317	0.169	1508.
61	62.0	14.919	35.438	5.02	0.17	26.329	0.172	1508.	0.17	26.329	0.172	1508.
64	64.1	14.866	35.437	5.02	0.17	26.339	0.176	1508.	0.17	26.339	0.176	1508.
66	66.1	14.888	35.439	5.03	0.17	26.336	0.179	1508.	0.17	26.336	0.179	1508.
67	67.8	14.767	35.424	5.04	0.17	26.351	0.182	1508.	0.17	26.351	0.182	1508.
69	70.0	14.643	35.415	4.94	0.17	26.371	0.186	1507.	0.17	26.371	0.186	1507.
71	71.9	14.583	35.415	5.01	0.16	26.384	0.189	1507.	0.16	26.384	0.189	1507.
73	74.1	14.478	35.411	4.97	0.16	26.403	0.192	1507.	0.16	26.403	0.192	1507.
75	75.9	14.330	35.402	5.00	0.15	26.428	0.195	1506.	0.15	26.428	0.195	1506.
77	78.0	14.180	35.402	4.95	0.14	26.460	0.199	1506.	0.14	26.460	0.199	1506.
79	79.9	14.178	35.404	4.95	0.14	26.462	0.202	1506.	0.14	26.462	0.202	1506.
81	82.1	14.184	35.405	4.90	0.14	26.462	0.205	1506.	0.14	26.462	0.205	1506.
83	83.8	14.200	35.409	4.91	0.14	26.462	0.208	1506.	0.14	26.462	0.208	1506.
85	86.0	14.206	35.409	4.83	0.14	26.460	0.211	1506.	0.14	26.460	0.211	1506.
87	88.0	14.194	35.407	4.89	0.14	26.461	0.215	1506.	0.14	26.461	0.215	1506.
89	90.0	14.199	35.407	4.90	0.14	26.460	0.218	1506.	0.14	26.460	0.218	1506.
91	92.1	14.171	35.404	4.88	0.14	26.464	0.221	1506.	0.14	26.464	0.221	1506.
93	93.9	13.817	35.379	4.85	0.14	26.519	0.224	1505.	0.14	26.519	0.224	1505.
95	96.0	13.575	35.398	4.81	0.12	26.584	0.227	1504.	0.12	26.584	0.227	1504.
97	98.0	13.559	35.404	4.78	0.12	26.593	0.230	1504.	0.12	26.593	0.230	1504.
99	100.0	13.467	35.396	4.79	0.12	26.605	0.233	1504.	0.12	26.605	0.233	1504.

SHIP	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH	STA 44 DAY: 13 TIME: 1253									
OC	122	43	13 JUL 1982	1124	40°25.6'N	67°47.3'W	150	DEPTH	TEMP	DEPTH	TEMP	DEPTH	TEMP	DEPTH	TEMP	DEPTH	TEMP
DEPTH	PRESS	TEMP	SALIN	OXY	ATN	SIGT	DYHT A	10m ² /s ²	m/s	m	(°C)	m	(°C)	m	(°C)	m	(°C)
m	dbar	°C	psu	ml/l	m ⁻¹	gm/cm ³	10m ² /s ²										
101	102.0	13.414	35.409	4.62	0.11	26.626	0.236	1504.	6.2	0.0	23.8	27.3	19.0	51.5	16.5	71.9	12.9
103	103.9	13.401	35.432	4.71	0.11	26.647	0.238	1504.	5.8	1.9	23.8	28.2	18.9	51.5	16.4	72.8	12.8
105	106.0	13.193	35.437	4.69	0.11	26.693	0.241	1503.	5.9	2.9	23.7	29.2	19.0	52.5	16.3	72.8	12.8
107	108.0	13.156	35.451	4.63	0.11	26.711	0.244	1503.	6.1	3.9	23.6	29.2	19.0	52.5	16.2	72.8	12.7
109	110.0	13.048	35.437	4.64	0.11	26.723	0.247	1503.	6.1	4.9	23.6	31.1	19.2	52.5	16.1	73.8	12.7
111	112.0	12.956	35.430	4.52	0.12	26.735	0.249	1502.	6.0	6.8	23.6	31.1	19.2	52.5	16.0	74.8	12.7
113	114.1	12.839	35.434	4.52	0.11	26.762	0.252	1502.	5.6	7.8	23.6	32.1	19.3	53.5	15.8	75.7	12.6
115	116.0	12.726	35.455	4.55	0.11	26.802	0.255	1502.	5.4	8.8	23.5	33.1	19.3	53.5	15.8	77.7	12.6
117	118.1	12.893	35.531	4.44	0.10	26.826	0.257	1502.	5.1	9.7	23.4	33.1	19.4	54.4	15.6	80.6	12.5
119	119.9	12.932	35.547	4.43	0.10	26.831	0.259	1503.	4.6	10.7	23.4	34.1	19.5	54.4	15.5	82.5	12.5
121	122.0	12.876	35.537	4.40	0.10	26.835	0.262	1502.	4.1	11.7	23.3	34.1	19.6	54.4	15.5	83.5	12.6
123	124.1	12.816	35.528	4.40	0.10	26.840	0.265	1502.	3.9	11.7	23.3	34.1	19.6	54.4	15.5	83.5	12.7
125	126.1	12.658	35.492	4.39	0.10	26.843	0.267	1502.	4.0	12.7	23.2	35.0	19.6	54.4	15.4	84.4	12.8
127	127.9	12.567	35.479	4.35	0.11	26.851	0.269	1501.	4.2	12.7	23.1	35.0	19.6	55.4	15.4	84.4	12.9
129	130.0	12.416	35.471	4.37	0.11	26.874	0.272	1501.	4.3	13.6	22.9	36.0	19.6	55.4	15.3	84.4	13.0
131	132.0	12.342	35.475	4.38	0.11	26.893	0.274	1501.	4.3	14.6	22.8	36.0	19.6	56.4	15.3	85.4	13.1
133	134.0	12.307	35.484	4.30	0.12	26.906	0.277	1501.	4.4	14.6	22.7	37.0	19.2	57.3	15.2	86.4	13.2
135	136.1	12.295	35.484	4.25	0.12	26.909	0.279	1501.	4.4	14.6	22.7	37.0	19.2	58.3	15.2	86.4	13.1
137	137.9	12.269	35.483	4.24	0.12	26.913	0.281	1501.	4.3	14.6	22.6	37.0	19.4	58.3	15.2	86.4	13.1
139	140.1	12.156	35.473	4.20	0.13	26.927	0.284	1500.	4.4	14.6	22.5	37.0	19.3	59.3	15.0	87.3	13.2
140	141.2	12.071	35.467	4.23	0.13	26.939	0.285	1500.	4.6	14.6	22.4	37.9	19.1	59.3	14.8	88.3	13.2
141	142.0	12.006	35.465	4.25	0.13	26.950	0.286	1500.	5.1	15.6	22.2	37.9	19.0	59.3	14.7	91.2	13.3
142	143.0	11.925	35.463	4.18	0.13	26.960	0.287	1500.	5.5	15.6	22.2	37.9	18.9	60.2	14.5	91.2	13.2
143	144.0	11.888	35.463	4.11	0.13	26.964	0.288	1499.	5.4	15.6	22.1	37.9	18.9	60.2	14.5	91.2	13.3
144	145.0	11.888	35.460	4.13	0.12	26.969	0.289	1499.	5.1	15.6	22.1	38.9	18.8	60.2	14.5	94.1	13.3
145	146.1	11.719	35.444	4.11	0.12	26.988	0.291	1499.	4.7	15.6	21.7	38.9	18.6	60.2	14.4	96.0	13.3
146	146.9	11.700	35.449	4.10	0.12	26.996	0.291	1499.	4.7	15.6	21.6	39.9	18.6	60.2	14.3	97.0	13.3
147	148.0	11.682	35.446	4.02	0.12	26.997	0.293	1499.	4.7	15.6	21.5	40.9	18.5	61.2	14.2	97.9	13.3
148	149.1	11.664	35.443	4.06	0.12	26.998	0.294	1499.	4.7	15.6	21.2	40.9	18.4	61.2	14.2	98.9	13.3
148	149.5	11.656	35.442	4.01	0.13	26.999	0.294	1499.	4.7	15.6	21.0	41.8	18.2	62.2	14.2	99.9	13.3
										16.6	20.9	41.8	18.1	62.2	14.1	100.8	13.3
										15.6	20.8	42.8	18.0	62.2	14.0	101.8	13.3
										16.6	20.6	42.8	17.9	62.2	13.9	102.8	13.2
										16.6	20.5	43.8	17.9	63.1	13.9	103.7	13.2
										16.6	20.4	44.7	17.8	63.1	13.7	105.6	13.2
										16.6	20.3	44.7	17.6	63.1	13.6	106.6	13.2
										18.5	20.3	45.7	17.5	64.1	13.6	107.6	13.1
										19.5	20.3	45.7	17.4	65.1	13.5	108.5	13.1
										21.4	20.2	45.7	17.3	66.0	13.5	109.5	13.1
										22.4	20.1	46.7	17.2	67.0	13.4	110.5	13.0
										23.4	20.0	47.6	17.2	68.0	13.3	112.4	13.1
										24.3	19.9	48.6	17.1	68.0	13.3	114.3	13.0
										25.3	19.8	48.6	17.0	69.0	13.2	116.2	13.0
										26.3	19.7	49.6	16.9	69.9	13.1	117.2	13.0
										27.3	19.6	49.6	16.8	69.9	13.1	118.2	12.9
										28.3	19.5	49.6	16.7	69.9	13.0	119.1	12.9
										29.3	19.2	50.6	16.6	70.9	13.0	120.1	12.9
										30.3	19.1	50.6	16.5	71.9	12.9	121.1	12.9

SHIP	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH	STA 46 DAY: 13 TIME: 1344									
OC	122	45	13 JUL 1982	1210	40°21.3'N	67°45.7'W	193	DEPTH	TEMP	DEPTH	TEMP	DEPTH	TEMP	DEPTH	TEMP	DEPTH	TEMP
m	dbar	TEMP °C	SALIN psu	OXY ml/l	ATN m ⁻¹	SIGT g/cm ³	DYHT A 10m ² /s ²	S SPD m/s	N cph	(m)	(°C)	(m)	(°C)	(m)	(°C)	(m)	(°C)
189	191.0	11.704	35.447	3.98	0.12	26.994	0.333	1499.	3.0	28.2	17.9	60.2	15.7	97.0	14.1	166.2	12.4
190	192.0	11.708	35.448	3.93	0.12	26.994	0.334	1500.	3.0	28.2	17.8	61.2	15.7	97.9	14.1	168.1	12.4
191	192.5	11.714	35.450	3.93	0.12	26.994	0.334	1500.	3.0	28.2	17.6	62.2	15.7	98.9	14.0	169.0	12.4
										28.2	17.6	63.1	15.7	99.9	14.0	170.0	12.3
										28.2	17.5	64.1	15.7	102.8	14.0	170.0	12.3
										29.2	17.4	65.1	15.6	105.6	14.0	170.0	12.2
										29.2	17.3	65.1	15.6	107.6	13.9	171.9	12.2
										10.7	24.0	30.2	17.2	110.5	13.9	172.9	12.1
										11.7	24.0	30.2	17.2	110.5	13.9	172.9	12.1
										12.7	23.8	30.2	17.2	112.4	13.9	174.8	12.1
										12.7	23.7	31.1	17.1	114.3	13.9	176.7	12.0
										12.7	23.5	31.1	17.1	115.3	13.9	178.6	12.0
										13.6	23.4	31.1	17.1	116.2	13.7	180.5	12.0
										14.6	23.4	32.1	17.0	116.2	13.6	182.4	12.0
										15.6	23.2	33.1	17.0	117.2	13.5	185.3	11.9
										15.6	23.0	34.1	16.9	117.2	13.3	186.2	11.9
										16.6	22.7	34.1	16.9	118.2	13.3	189.1	11.9
										16.6	22.4	35.0	16.8	119.1	13.2	191.0	11.8
										17.5	22.3	35.0	16.7	120.1	13.1	192.0	11.7
										17.5	22.1	35.0	16.6	122.0	13.1	192.0	11.7
										18.5	22.0	36.0	16.5	124.9	13.1	192.9	11.6
										19.5	21.9	36.0	16.5	126.8	13.1	193.9	11.5
										20.4	21.7	37.9	16.4	128.7	13.1	193.9	11.5
										20.4	21.5	38.9	16.3	129.7	13.2	194.8	11.4
										21.4	21.2	38.9	16.2	130.7	13.2	196.7	11.4
										21.4	21.1	38.9	16.2	130.7	13.2	197.7	11.3
										21.4	20.9	39.9	16.1	132.6	13.3	199.6	11.2
										21.4	20.8	39.9	16.0	133.5	13.3	200.5	11.1
										21.4	20.6	41.8	16.0	134.5	13.4	200.5	11.1
										22.4	20.5	43.8	16.0	135.5	13.4	201.5	11.0
										22.4	20.4	44.7	15.9	136.4	13.4	202.5	11.0
										22.4	20.3	45.7	15.9	137.4	13.3	203.4	10.9
										22.4	20.2	47.6	15.8	141.2	13.2	207.2	10.8
										22.4	20.1	48.6	15.8	143.1	13.2	208.2	10.8
										23.4	19.8	49.6	15.7	144.1	13.2	209.1	10.7
										23.4	19.7	50.6	15.7	145.1	13.1	211.0	10.7
										23.4	19.6	51.5	15.6	147.9	13.1	212.0	10.6
										24.3	19.6	51.5	15.5	148.9	13.1	212.9	10.5
										24.3	19.5	52.5	15.4	151.8	13.0	212.9	10.4
										26.3	19.5	53.5	15.2	153.7	13.0	214.8	10.4
										26.3	19.3	54.4	15.0	155.6	12.9	216.7	10.3
										26.3	19.2	55.4	14.9	157.5	12.9	217.7	10.3
										26.3	19.1	55.4	14.9	158.5	12.9	219.6	10.2
										26.3	19.1	56.4	14.9	159.4	12.8	223.4	10.1
										27.3	18.8	56.4	15.0	160.4	12.7	224.4	10.1
										27.3	18.7	56.4	15.1	161.4	12.7	227.2	9.9
										27.3	18.6	57.3	15.3	162.3	12.6	228.2	9.9
										28.2	18.4	58.3	15.4	163.3	12.5	230.1	9.8
										27.3	18.3	58.3	15.4	163.3	12.5	231.0	9.8
										28.2	18.2	59.3	15.5	165.2	12.5	232.0	9.7
										28.2	18.0	59.3	15.6	165.2	12.5	232.0	9.7

STA 46				DAY: 13		TIME: 1344		SHIP		STATION	DATE		EST	LATITUDE	LONGITUDE	DEPTH
DEPTH	TEMP	DEPTH	TEMP	DEPTH	TEMP	DEPTH	TEMP	OC	CRUISE		13 JUL 1982	ATN				
(m)	(°C)	(m)	(°C)	(m)	(°C)	(m)	(°C)	122	PRESS	TEMP	SALIN	OXY	m ⁻¹	40°15.1'N	67°43.0'W	1345
232.9	9.7	303.9	7.5	395.7	5.5	523.4	5.0	2	2.2	23.743	34.901	4.88	0.21	23.644	0.000	1531.
234.8	9.7	306.7	7.4	397.6	5.5	528.0	5.0	4	3.8	23.751	34.901	4.94	0.17	23.642	0.006	1531.
236.7	9.5	307.6	7.4	400.4	5.5	534.4	4.9	6	6.3	23.731	34.904	5.05	0.17	23.650	0.017	1531.
237.7	9.5	310.5	7.3	402.3	5.5	539.9	4.9	8	7.8	23.613	34.931	5.15	0.17	23.705	0.024	1531.
239.6	9.4	312.4	7.2	406.0	5.5	544.5	4.9	10	10.1	23.516	35.202	5.18	0.17	23.938	0.033	1531.
240.5	9.4	313.3	7.1	408.8	5.5	550.0	4.9	12	11.9	23.385	35.491	5.23	0.17	24.196	0.040	1531.
241.5	9.4	314.2	7.1	410.6	5.5	551.8	4.9	14	14.0	23.125	35.518	5.25	0.16	24.292	0.048	1531.
243.4	9.3	316.1	7.0	413.4	5.5	557.3	4.9	16	16.0	22.161	35.336	5.40	0.17	24.429	0.055	1528.
245.2	9.3	317.1	7.0	415.3	5.5	559.2	4.9	18	17.9	20.852	35.153	5.56	0.18	24.652	0.061	1524.
246.2	9.3	319.9	6.9	418.1	5.5	563.7	4.9	20	20.1	19.527	35.027	5.71	0.19	24.908	0.068	1521.
247.1	9.3	321.8	6.9	420.9	5.5	569.2	4.9	22	21.9	19.176	35.043	5.73	0.20	25.010	0.074	1520.
248.1	9.2	322.7	6.8	422.7	5.5	572.9	4.9	24	23.9	18.555	35.084	5.74	0.21	25.199	0.079	1518.
251.9	9.2	324.6	6.8	424.6	5.4	576.5	4.9	26	26.0	17.933	35.159	5.74	0.25	25.411	0.085	1516.
252.8	9.2	326.5	6.8	426.5	5.4	582.0	4.8	28	28.2	17.242	35.283	5.74	0.42	25.675	0.090	1514.
254.7	9.1	330.2	6.8	429.2	5.4	586.5	4.9	30	32.0	16.899	35.412	5.49	0.59	25.856	0.099	1514.
256.6	9.1	333.0	6.8	430.2	5.4	591.1	4.8	32	34.1	16.212	35.360	5.36	0.35	25.976	0.103	1511.
257.6	9.1	334.9	6.8	433.0	5.3	595.7	4.8	34	36.0	15.766	35.315	5.11	0.24	26.045	0.107	1510.
258.5	9.0	335.9	6.7	434.8	5.3	598.4	4.8	36	38.1	15.429	35.283	4.97	0.21	26.096	0.111	1509.
260.4	9.0	337.7	6.6	437.6	5.3	604.8	4.8	40	40.1	15.118	35.249	4.94	0.18	26.139	0.115	1508.
265.1	8.9	338.7	6.5	439.4	5.3	611.1	4.8	42	41.9	14.884	35.284	4.93	0.16	26.217	0.118	1507.
266.1	8.9	339.6	6.4	444.1	5.3	619.3	4.8	44	44.0	14.415	35.256	4.93	0.13	26.298	0.122	1506.
267.0	8.9	340.5	6.3	445.0	5.3	624.7	4.8	46	46.1	13.959	35.167	4.93	0.12	26.326	0.125	1504.
268.9	8.8	342.4	6.3	446.9	5.3	628.4	4.8	48	47.9	13.871	35.161	4.96	0.11	26.339	0.128	1504.
270.8	8.8	343.4	6.2	447.8	5.3	633.8	4.8	50	50.0	13.829	35.194	4.94	0.11	26.374	0.132	1504.
273.7	8.7	346.3	6.1	451.5	5.3	640.1	4.8	52	52.1	13.897	35.253	4.89	0.10	26.405	0.135	1504.
275.6	8.7	347.2	6.1	452.4	5.3	644.7	4.8	54	53.9	14.004	35.310	4.84	0.10	26.427	0.138	1505.
276.5	8.6	348.1	6.1	452.4	5.3	648.3	4.8	56	56.0	14.458	35.568	4.67	0.09	26.529	0.142	1507.
278.4	8.5	349.9	6.1	453.3	5.3	654.6	4.8	58	58.1	14.833	35.755	4.50	0.09	26.592	0.144	1508.
279.3	8.5	351.8	6.0	456.1	5.2	658.2	4.7	59	60.0	15.179	35.871	4.25	0.08	26.604	0.147	1509.
280.3	8.4	352.7	6.0	459.8	5.2	661.8	4.7	62	62.0	15.340	35.937	4.02	0.08	26.619	0.150	1510.
281.2	8.3	354.6	5.9	462.6	5.2	668.1	4.7	63	64.0	15.403	35.957	3.89	0.08	26.621	0.153	1510.
282.2	8.2	356.5	5.9	466.3	5.2	673.6	4.7	65	66.0	15.333	35.944	3.82	0.08	26.627	0.156	1510.
285.0	8.2	361.2	5.9	472.8	5.2	683.5	4.7	67	68.0	15.239	35.927	3.78	0.08	26.635	0.159	1510.
286.9	8.1	363.0	5.9	476.5	5.1	686.2	4.7	69	70.0	15.253	35.935	3.80	0.08	26.638	0.162	1510.
287.8	8.1	365.8	5.9	479.2	5.2	690.7	4.7	71	71.9	15.299	35.953	3.81	0.08	26.641	0.164	1510.
288.8	8.0	368.7	5.9	482.9	5.1	697.0	4.7	73	74.0	15.386	35.987	3.82	0.08	26.649	0.170	1510.
289.7	7.9	370.5	5.8	485.7	5.2	702.3	4.6	76	76.2	15.384	35.988	3.82	0.08	26.648	0.170	1510.
290.7	7.9	373.3	5.8	488.5	5.1	705.9	4.6	77	77.8	15.369	35.985	3.83	0.08	26.650	0.173	1510.
292.6	7.9	375.2	5.8	491.2	5.0	709.5	4.6	79	80.0	15.299	35.970	3.79	0.08	26.654	0.176	1510.
293.5	7.8	377.1	5.7	493.1	5.0	713.1	4.6	81	82.1	15.223	35.954	3.79	0.08	26.659	0.179	1510.
294.4	7.7	379.9	5.7	495.8	5.0	717.6	4.6	83	83.9	15.206	35.952	3.80	0.08	26.661	0.181	1510.
296.3	7.6	382.7	5.7	499.5	5.0	721.2	4.6	85	86.0	15.197	35.952	3.79	0.08	26.663	0.184	1510.
297.3	7.6	385.5	5.7	502.3	5.0	723.9	4.6	87	88.1	15.184	35.950	3.77	0.08	26.665	0.187	1510.
298.2	7.6	387.3	5.7	504.1	5.0	729.2	4.6	89	90.0	15.079	35.929	3.76	0.08	26.672	0.190	1509.
299.2	7.5	390.1	5.6	506.9	5.0	732.8	4.6	91	91.9	14.852	35.885	3.78	0.08	26.688	0.192	1509.
301.0	7.5	392.0	5.6	510.6	5.0	735.5	4.6	93	94.0	14.655	35.853	3.78	0.08	26.707	0.195	1508.
302.9	7.5	393.9	5.6	514.2	5.0	739.1	4.6	95	95.9	14.604	35.859	3.82	0.08	26.722	0.198	1508.
				518.8	5.0	742.7	4.6	97	98.0	14.558	35.852	3.76	0.08	26.727	0.200	1508.
								99	100.2	14.458	35.831	3.72	0.08	26.732	0.203	1508.

SHIP OC	CRUISE 122	STATION 47	DATE 13 JUL 1982	EST 1304	LATITUDE 40°15.1'N	LONGITUDE 67°43.0'W	DEPTH 1345	DEPTH m	CRUISE 122	STATION 47	DATE 13 JUL 1982	EST 1304	LATITUDE 40°15.1'N	LONGITUDE 67°43.0'W	DEPTH 1345					
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	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	301.9	8.531	35.132	3.51	0.13	27.296	0.414	1490.	2.7		398	401.9	6.142	35.020	4.67	0.22	27.551	0.484	1482.	2.0
301	304.0	8.495	35.132	3.49	0.13	27.302	0.415	1489.	2.7		401	404.1	6.136	35.020	4.68	0.22	27.551	0.485	1482.	2.2
303	305.9	8.464	35.131	3.55	0.13	27.306	0.417	1489.	2.8		402	406.0	6.128	35.020	4.73	0.22	27.552	0.486	1482.	2.4
305	308.0	8.456	35.132	3.54	0.14	27.308	0.419	1489.	2.7		404	408.0	6.082	35.017	4.71	0.23	27.555	0.487	1482.	2.5
308	310.1	8.456	35.133	3.53	0.14	27.309	0.420	1489.	2.8		407	410.1	5.971	35.010	4.78	0.23	27.564	0.488	1481.	2.5
309	311.9	8.405	35.130	3.56	0.14	27.314	0.422	1489.	3.0		408	411.9	5.923	35.008	4.79	0.23	27.569	0.489	1481.	2.5
311	314.1	8.335	35.126	3.56	0.14	27.322	0.423	1489.	3.1		410	414.0	5.892	35.008	4.80	0.23	27.573	0.491	1481.	2.4
313	316.0	8.291	35.122	3.64	0.14	27.325	0.425	1489.	3.3		412	416.1	5.885	35.008	4.81	0.24	27.574	0.492	1481.	2.2
315	318.0	8.156	35.112	3.64	0.14	27.338	0.427	1488.	3.3		414	418.0	5.882	35.009	4.86	0.24	27.575	0.493	1481.	2.0
317	320.0	8.107	35.110	3.64	0.14	27.344	0.428	1488.	3.2		416	420.0	5.867	35.009	4.86	0.24	27.577	0.494	1481.	1.9
319	321.9	8.062	35.106	3.70	0.14	27.348	0.430	1488.	3.0		418	422.0	5.847	35.009	4.87	0.25	27.579	0.495	1481.	2.0
321	324.0	8.003	35.103	3.73	0.14	27.355	0.431	1488.	2.8		420	424.1	5.827	35.008	4.80	0.25	27.581	0.496	1481.	2.1
323	326.0	7.981	35.102	3.69	0.14	27.357	0.433	1488.	2.7		422	425.9	5.785	35.005	4.90	0.25	27.584	0.497	1481.	2.2
325	328.0	7.961	35.101	3.71	0.15	27.359	0.434	1488.	3.0		424	428.1	5.749	35.003	4.91	0.25	27.587	0.498	1481.	2.2
327	329.9	7.926	35.099	3.75	0.15	27.363	0.436	1488.	3.3		426	429.9	5.689	34.999	4.94	0.25	27.591	0.499	1481.	2.2
329	332.1	7.883	35.096	3.79	0.15	27.367	0.437	1488.	3.5		428	432.1	5.658	34.999	4.92	0.25	27.595	0.501	1480.	2.1
331	333.9	7.733	35.083	3.85	0.15	27.379	0.439	1487.	3.7		430	433.9	5.647	34.999	4.97	0.26	27.596	0.502	1480.	1.9
333	336.0	7.628	35.082	3.84	0.16	27.394	0.440	1487.	3.8		432	436.1	5.630	34.998	4.99	0.26	27.598	0.503	1480.	1.7
335	338.0	7.565	35.079	3.92	0.16	27.400	0.442	1486.	3.7		434	437.9	5.625	34.998	5.00	0.26	27.599	0.504	1480.	1.6
337	340.0	7.494	35.078	3.96	0.16	27.410	0.443	1486.	3.4		436	440.1	5.620	34.998	4.97	0.27	27.599	0.505	1480.	1.6
339	342.0	7.452	35.077	3.94	0.16	27.415	0.445	1486.	3.0		438	442.0	5.609	34.998	4.99	0.27	27.600	0.506	1480.	1.8
341	344.0	7.419	35.076	3.99	0.16	27.419	0.446	1486.	2.7		440	444.0	5.590	34.998	4.98	0.27	27.603	0.507	1480.	1.9
343	346.1	7.404	35.075	4.02	0.17	27.421	0.448	1486.	2.6		442	446.0	5.571	34.997	5.04	0.28	27.605	0.508	1480.	2.0
345	347.9	7.396	35.075	4.01	0.17	27.422	0.449	1486.	2.5		444	448.0	5.521	34.994	5.07	0.28	27.608	0.509	1480.	2.0
347	350.0	7.345	35.072	4.01	0.17	27.427	0.450	1486.	2.5		446	450.0	5.471	34.990	5.07	0.28	27.612	0.510	1480.	1.9
349	352.0	7.278	35.067	4.06	0.17	27.433	0.452	1486.	2.6		448	452.0	5.463	34.991	5.09	0.28	27.613	0.511	1480.	1.8
351	354.0	7.244	35.067	4.10	0.17	27.438	0.453	1485.	2.7		450	454.1	5.443	34.989	5.12	0.28	27.614	0.512	1480.	1.7
353	355.9	7.214	35.066	4.10	0.18	27.441	0.455	1485.	2.7		452	455.9	5.432	34.989	5.13	0.28	27.615	0.513	1480.	1.5
355	358.1	7.180	35.065	4.08	0.18	27.445	0.456	1485.	2.7		454	458.0	5.422	34.988	5.10	0.29	27.616	0.514	1480.	1.5
357	360.0	7.154	35.063	4.12	0.18	27.447	0.457	1485.	2.8		456	460.1	5.402	34.987	5.11	0.29	27.617	0.515	1480.	1.5
359	362.0	7.090	35.060	4.10	0.18	27.454	0.459	1485.	3.0		458	461.9	5.381	34.985	5.11	0.29	27.618	0.516	1480.	1.5
361	364.0	7.050	35.058	4.15	0.18	27.458	0.460	1485.	3.1		460	464.0	5.353	34.983	5.12	0.30	27.620	0.517	1480.	1.5
363	366.0	6.980	35.054	4.22	0.18	27.464	0.461	1485.	3.1		462	466.0	5.335	34.982	5.20	0.30	27.621	0.519	1480.	1.5
365	367.9	6.901	35.051	4.26	0.18	27.473	0.463	1484.	3.0		464	468.0	5.322	34.982	5.20	0.30	27.623	0.520	1480.	1.4
367	370.1	6.828	35.048	4.26	0.18	27.481	0.464	1484.	2.9		466	469.9	5.305	34.980	5.23	0.30	27.624	0.521	1480.	1.2
369	371.8	6.816	35.049	4.29	0.19	27.483	0.465	1484.	2.9		468	472.0	5.298	34.980	5.18	0.30	27.624	0.522	1480.	1.1
371	374.0	6.814	35.049	4.30	0.19	27.483	0.467	1484.	2.9		470	474.0	5.288	34.979	5.20	0.31	27.624	0.523	1480.	0.9
373	375.9	6.760	35.045	4.36	0.19	27.488	0.468	1484.	3.1		472	476.0	5.281	34.979	5.19	0.31	27.625	0.524	1480.	0.8
375	378.1	6.706	35.044	4.34	0.19	27.494	0.469	1484.	3.2		474	478.0	5.287	34.979	5.19	0.31	27.625	0.525	1480.	0.8
377	379.9	6.637	35.038	4.39	0.19	27.499	0.470	1484.	3.3		476	480.0	5.280	34.978	5.22	0.31	27.625	0.526	1480.	0.8
379	382.0	6.527	35.035	4.39	0.20	27.511	0.472	1483.	3.3		478	482.1	5.279	34.978	5.22	0.31	27.625	0.527	1480.	0.8
381	384.1	6.440	35.032	4.45	0.20	27.521	0.473	1483.	3.2		480	484.0	5.271	34.977	5.20	0.31	27.626	0.528	1480.	1.0
383	385.9	6.420	35.032	4.54	0.20	27.523	0.474	1483.	3.1		482	486.0	5.268	34.978	5.17	0.32	27.627	0.529	1480.	1.2
385	388.0	6.400	35.031	4.51	0.20	27.525	0.475	1483.	3.0		484	488.0	5.265	34.978	5.25	0.32	27.627	0.530	1480.	1.4
387	390.0	6.362	35.029	4.57	0.21	27.529	0.477	1483.	2.8		486	490.1	5.264	34.979	5.25	0.32	27.628	0.531	1480.	1.5
389	391.9	6.289	35.027	4.57	0.21	27.536	0.478	1482.	2.6		488	491.9	5.257	34.980	5.21	0.32	27.629	0.532	1480.	1.6
391	394.1	6.221	35.024	4.61	0.22	27.543	0.479	1482.	2.5		490	494.1	5.244	34.982	5.21	0.32	27.632	0.533	1480.	1.6
393	396.0	6.206	35.024	4.68	0.22	27.545	0.480	1482.	2.4		492	496.0	5.233	34.982	5.25	0.32	27.634	0.534	1480.	1.7
395	398.0	6.185	35.022	4.70	0.22	27.547	0.481	1482.	2.1		494	498.0	5.211	34.980	5.22	0.32	27.635	0.535	1480.	1.7
397	400.0	6.160	35.021	4.70	0.22	27.549	0.482	1482.	1.9		496	500.1	5.190	34.978	5.26	0.32	27.636	0.536	1480.	1.8

SHIP	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH
OC	122	47	13 JUL 1982	1304	40°15.1'N	67°43.0'W	1345
DEPTH	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH
m	dbar	TEMP	SALIN	OXY	SIGT	DYHT A	S SPD
		°C	psu	ml/l	gm/cm ³	10m ² /s ²	m/s
515	520.1	5.083	34.976	5.31	27.646	0.546	1480.
535	540.0	4.983	34.979	5.40	27.661	0.556	1479.
555	560.0	4.862	34.972	5.50	27.669	0.565	1479.
575	579.9	4.816	34.968	5.50	27.671	0.575	1479.
595	600.0	4.786	34.966	5.50	27.673	0.585	1480.
614	620.1	4.715	34.964	5.57	27.680	0.594	1480.
634	640.1	4.701	34.963	5.52	27.681	0.604	1480.
654	660.1	4.643	34.959	5.57	27.684	0.613	1480.
674	679.9	4.575	34.956	5.61	27.689	0.622	1480.
693	699.9	4.473	34.949	5.64	27.695	0.632	1480.
713	720.0	4.423	34.949	5.66	27.700	0.641	1480.
732	739.0	4.416	34.948	5.66	27.700	0.650	1480.
DEPTH	TEMP	DEPTH	TEMP	DEPTH	TEMP	DEPTH	TEMP
m	(°C)	m	(°C)	m	(°C)	m	(°C)
0.0	24.1	25.3	18.4	56.4	14.1	88.3	14.8
1.9	24.0	26.3	18.2	57.3	14.2	88.3	14.7
3.9	24.0	26.3	18.1	57.3	14.2	88.3	14.6
4.9	24.0	26.3	18.0	57.3	14.3	89.2	14.6
5.8	24.0	26.3	17.9	57.3	14.3	90.2	14.6
6.8	23.9	26.3	17.7	57.3	14.4	92.1	14.6
6.8	23.9	27.3	17.6	58.3	14.4	93.1	14.5
7.8	23.8	28.2	17.4	58.3	14.5	94.1	14.4
7.8	23.7	28.2	17.3	59.3	14.5	95.0	14.4
7.8	23.6	29.2	17.2	59.3	14.7	95.0	14.3
8.8	23.5	30.2	17.2	59.3	14.7	96.0	14.2
8.8	23.5	32.1	17.0	59.3	14.8	96.0	14.1
9.7	23.6	32.1	17.0	60.2	15.0	97.9	14.0
10.7	23.5	33.1	17.0	60.2	15.1	97.9	13.9
11.7	23.4	34.1	16.7	60.2	15.2	97.9	13.8
12.7	23.3	34.1	16.6	60.2	15.3	98.9	13.8
13.6	23.2	35.0	16.5	61.2	15.4	99.9	13.7
13.6	23.1	35.0	16.3	61.2	15.5	99.9	13.6
13.6	23.0	35.0	16.2	62.2	15.6	101.8	13.6
15.6	22.9	35.0	16.0	62.2	15.6	103.7	13.6
14.6	22.8	36.0	15.9	63.1	15.6	104.7	13.6
14.6	22.6	36.0	15.8	64.1	15.6	105.6	13.5
14.6	22.3	36.0	15.8	64.1	15.6	106.6	13.5
15.6	22.2	37.0	15.6	65.1	15.5	107.6	13.4
15.6	22.1	37.9	15.6	66.0	15.5	109.5	13.4
15.6	21.9	38.9	15.5	67.0	15.4	110.5	13.4
16.6	21.6	39.9	15.5	68.0	15.4	111.4	13.3
16.6	21.4	39.9	15.4	69.0	15.5	112.4	13.3
16.6	21.2	39.9	15.3	69.0	15.5	113.4	13.3
17.5	21.1	40.9	15.1	69.0	15.5	115.3	13.3
17.5	20.9	40.9	15.0	69.9	15.6	116.2	13.3
17.5	20.7	41.8	14.9	70.9	15.6	116.2	13.4
17.5	20.5	41.8	14.8	72.8	15.6	117.2	13.5
18.5	20.4	41.8	14.8	73.8	15.6	117.2	13.5
17.5	20.1	42.8	14.8	73.8	15.5	118.2	13.6
17.5	20.0	43.8	14.7	74.8	15.5	120.1	13.6
18.5	19.7	43.8	14.6	76.7	15.5	121.1	13.6
18.5	19.6	44.7	14.5	77.7	15.5	122.0	13.6
18.5	19.5	44.7	14.5	79.6	15.5	122.0	13.5
19.5	19.4	45.7	14.4	80.6	15.5	123.0	13.5
20.4	19.4	45.7	14.3	81.5	15.5	123.9	13.4
21.4	19.3	46.7	14.2	82.5	15.4	123.9	13.3
21.4	19.3	46.7	14.1	82.5	15.4	124.9	13.2
22.4	19.2	47.6	14.1	84.4	15.4	125.9	13.1
23.4	19.1	49.6	14.0	84.4	15.3	126.8	13.1
23.4	19.1	49.6	14.0	85.4	15.2	127.8	13.0
24.3	18.9	51.5	14.0	85.4	15.1	127.8	13.0
25.3	18.8	53.5	13.9	86.4	15.0	129.7	12.9
25.3	18.6	55.4	13.9	87.3	15.0	130.7	12.9
25.3	18.5	55.4	14.0	87.3	14.9	132.6	12.8

STA 48				DAY: 13				TIME: 1441				STA 48				DAY: 13				TIME: 1441			
DEPTH	TEMP	DEPTH	TEMP	DEPTH	TEMP	DEPTH	TEMP	DEPTH	TEMP	DEPTH	TEMP	DEPTH	TEMP	DEPTH	TEMP	DEPTH	TEMP	DEPTH	TEMP	DEPTH	TEMP	DEPTH	TEMP
(m)	(°C)	(m)	(°C)	(m)	(°C)	(m)	(°C)	(m)	(°C)	(m)	(°C)	(m)	(°C)	(m)	(°C)	(m)	(°C)	(m)	(°C)	(m)	(°C)	(m)	(°C)
198.6	10.7	270.8	8.9	348.1	7.1	433.9	5.6	556.4	4.9	732.8	4.4	921.9	4.2	1178.3	4.0								
200.5	10.7	271.8	8.9	349.9	7.1	434.8	5.5	561.0	4.9	736.4	4.4	924.6	4.2	1185.1	4.1								
201.5	10.7	274.6	8.8	351.8	7.0	437.6	5.5	565.6	4.9	740.9	4.4	928.1	4.2	1188.4	4.0								
201.5	10.6	276.5	8.8	352.7	6.9	443.2	5.5	569.2	4.9	744.4	4.4	933.3	4.2	1191.8	4.0								
202.5	10.5	277.4	8.8	353.7	6.9	445.0	5.5	573.8	4.8	746.2	4.4	938.5	4.2	1195.2	4.0								
203.4	10.5	278.4	8.8	354.6	6.9	447.8	5.5	577.4	4.9	749.8	4.4	942.9	4.2	1197.7	4.0								
203.4	10.5	278.4	8.7	355.6	6.8	449.6	5.5	582.0	4.9	752.5	4.4	949.0	4.2	1199.4	4.0								
205.3	10.4	279.3	8.7	357.4	6.8	451.5	5.5	585.6	4.8	755.2	4.4	953.3	4.2										
206.3	10.4	282.2	8.6	357.4	6.7	453.3	5.5	589.3	4.8	765.9	4.4	955.9	4.2										
208.2	10.4	284.1	8.6	358.4	6.7	454.3	5.4	595.7	4.8	769.4	4.4	962.9	4.2										
209.1	10.4	285.9	8.6	361.2	6.6	455.2	5.4	599.3	4.8	772.1	4.4	970.7	4.2										
210.1	10.4	288.8	8.6	363.0	6.6	458.0	5.4	602.9	4.8	775.7	4.4	975.9	4.2										
211.0	10.4	290.7	8.6	364.0	6.6	459.8	5.4	605.7	4.8	778.3	4.4	982.8	4.1										
212.9	10.3	291.6	8.5	365.8	6.5	462.6	5.4	609.3	4.8	781.0	4.4	987.1	4.1										
213.9	10.3	292.6	8.5	365.8	6.4	464.5	5.4	614.7	4.8	784.5	4.4	992.3	4.1										
214.8	10.2	294.4	8.4	368.7	6.4	466.3	5.4	617.5	4.8	787.2	4.4	997.5	4.1										
215.8	10.2	295.4	8.4	370.5	6.4	468.2	5.4	620.2	4.8	790.8	4.4	1000.9	4.1										
217.7	10.2	295.4	8.3	371.5	6.4	470.9	5.3	621.1	4.8	795.2	4.3	1007.9	4.1										
218.6	10.1	296.3	8.3	373.3	6.3	472.8	5.3	624.7	4.7	798.8	4.3	1013.9	4.1										
219.6	10.1	298.2	8.3	374.3	6.3	474.6	5.3	626.5	4.7	805.0	4.3	1020.8	4.1										
221.5	10.1	299.2	8.3	377.1	6.3	475.5	5.3	628.4	4.7	810.3	4.3	1026.8	4.1										
224.4	10.1	301.0	8.2	378.9	6.3	477.4	5.2	630.2	4.7	812.9	4.3	1032.0	4.1										
225.3	10.1	302.0	8.2	380.8	6.2	480.2	5.2	632.9	4.7	817.4	4.3	1038.8	4.1										
226.3	10.0	303.9	8.2	381.7	6.2	482.9	5.2	634.7	4.7	820.9	4.3	1044.0	4.2										
227.2	9.9	304.8	8.1	381.7	6.1	485.7	5.2	638.3	4.7	824.4	4.3	1050.9	4.1										
228.2	9.9	306.7	8.1	383.6	6.1	487.5	5.2	643.8	4.7	827.1	4.3	1058.6	4.1										
230.1	9.9	307.6	8.1	385.5	6.0	489.4	5.2	647.4	4.7	830.6	4.3	1062.9	4.1										
231.0	9.8	309.5	8.1	387.3	6.0	490.3	5.2	649.2	4.7	835.0	4.3	1068.0	4.1										
233.9	9.9	311.4	8.0	390.1	6.0	493.1	5.2	652.8	4.7	839.5	4.2	1072.3	4.1										
234.8	9.8	314.2	7.9	392.0	6.0	494.9	5.2	657.3	4.6	843.0	4.2	1077.4	4.1										
236.7	9.8	315.2	7.9	393.9	6.0	496.8	5.2	660.9	4.6	845.6	4.2	1081.7	4.1										
237.7	9.8	316.1	7.8	395.7	5.9	498.6	5.2	664.5	4.6	851.8	4.3	1086.8	4.1										
238.6	9.8	317.1	7.6	397.6	5.9	499.5	5.2	667.2	4.6	855.3	4.3	1091.9	4.1										
241.5	9.7	319.9	7.6	399.5	5.9	503.2	5.1	670.9	4.5	862.4	4.3	1097.9	4.1										
243.4	9.7	321.8	7.6	401.3	5.9	504.1	5.1	673.6	4.5	866.8	4.3	1103.8	4.1										
245.2	9.6	323.6	7.5	403.2	5.9	506.0	5.0	677.2	4.5	868.5	4.3	1108.1	4.1										
248.1	9.5	325.5	7.5	405.1	5.9	508.7	5.0	679.9	4.4	872.0	4.3	1113.2	4.1										
250.9	9.5	327.4	7.5	406.0	5.8	513.3	5.0	683.5	4.5	875.5	4.2	1117.4	4.1										
253.8	9.5	328.3	7.5	407.8	5.8	517.9	5.0	686.2	4.5	879.1	4.2	1119.1	4.1										
255.7	9.5	329.3	7.4	409.7	5.8	523.4	5.0	690.7	4.5	883.4	4.2	1126.8	4.1										
257.6	9.4	331.2	7.4	409.7	5.8	527.1	5.0	694.3	4.4	886.1	4.2	1131.9	4.1										
258.5	9.3	333.0	7.3	412.5	5.8	530.8	5.0	698.8	4.4	890.5	4.3	1136.1	4.1										
259.5	9.2	334.9	7.3	416.2	5.7	536.3	5.0	703.2	4.4	893.1	4.3	1140.3	4.1										
260.4	9.1	335.9	7.3	418.1	5.7	539.9	5.0	706.8	4.5	895.7	4.3	1144.6	4.1										
260.4	9.1	337.7	7.2	419.9	5.7	543.6	5.0	709.5	4.5	898.3	4.3	1150.5	4.1										
262.3	9.0	339.6	7.2	420.9	5.7	546.4	5.0	713.1	4.4	901.8	4.2	1154.7	4.1										
264.2	9.0	341.5	7.2	421.8	5.7	549.1	5.0	715.8	4.4	907.1	4.2	1158.1	4.1										
266.1	9.0	343.3	7.2	426.5	5.6	550.9	5.0	720.3	4.4	910.6	4.3	1162.3	4.1										
268.0	9.0	346.2	7.2	429.2	5.6	551.8	4.9	725.7	4.4	915.8	4.2	1167.4	4.1										
269.9	9.0	347.1	7.1	432.0	5.6	553.7	4.9	730.1	4.4	918.5	4.2	1173.3	4.0										

SHIP	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH	SHIP	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH		
OC	122	49	13 JUL 1982	1513	40°14.3'N	67°57.6'W	800	OC	122	49	13 JUL 1982	1513	40°14.3'N	67°57.6'W	800		
DEPTH	PRESS	TEMP	SALIN	OXY	ATN	SIGT	DYHT A	S SPD	DEPTH	PRESS	TEMP	SALIN	OXY	ATN	SIGT	DYHT A	S SPD
m	dbar	°C	psu	ml/l	m ⁻¹	gm/cm ³	10m ² /s ²	m/s	m	dbar	°C	psu	ml/l	m ⁻¹	gm/cm ³	10m ² /s ²	m/s
200	201.9	10.376	35.324	3.41	0.09	27.140	0.313	1495.	200	201.9	7.752	35.091	3.83	0.12	27.383	0.397	1487.
202	203.9	10.339	35.320	3.40	0.09	27.144	0.315	1495.	302	304.1	7.740	35.091	3.87	0.12	27.384	0.399	1487.
204	206.0	10.303	35.315	3.39	0.09	27.146	0.317	1495.	303	305.9	7.661	35.085	3.92	0.12	27.391	0.400	1486.
206	208.0	10.222	35.305	3.40	0.09	27.152	0.318	1494.	305	308.0	7.611	35.083	3.90	0.13	27.397	0.402	1486.
208	210.0	10.104	35.292	3.41	0.09	27.162	0.320	1494.	308	311.1	7.579	35.082	3.90	0.13	27.401	0.403	1486.
210	212.0	10.045	35.287	3.40	0.09	27.169	0.322	1494.	309	310.9	7.533	35.079	3.93	0.13	27.405	0.405	1486.
212	214.1	9.963	35.277	3.40	0.09	27.175	0.324	1494.	311	314.0	7.491	35.078	3.95	0.13	27.410	0.406	1486.
214	216.0	9.912	35.270	3.40	0.09	27.179	0.326	1493.	313	316.0	7.455	35.076	3.97	0.13	27.414	0.408	1486.
216	218.0	9.871	35.267	3.39	0.09	27.183	0.328	1493.	315	318.1	7.404	35.073	4.03	0.13	27.419	0.409	1486.
218	220.0	9.797	35.259	3.40	0.09	27.189	0.330	1493.	317	319.9	7.370	35.072	4.04	0.13	27.423	0.410	1485.
220	222.0	9.694	35.248	3.40	0.09	27.198	0.331	1493.	319	322.0	7.273	35.069	4.08	0.14	27.435	0.412	1485.
222	224.0	9.624	35.240	3.41	0.09	27.204	0.333	1492.	321	324.0	7.182	35.066	4.09	0.14	27.446	0.413	1485.
224	226.0	9.563	35.233	3.40	0.09	27.209	0.335	1492.	323	326.0	7.116	35.062	4.10	0.14	27.452	0.414	1485.
226	228.0	9.534	35.228	3.40	0.10	27.210	0.337	1492.	325	328.0	7.061	35.058	4.16	0.14	27.456	0.416	1484.
228	230.0	9.481	35.223	3.41	0.09	27.215	0.339	1492.	327	330.0	6.987	35.054	4.23	0.14	27.463	0.417	1484.
230	232.0	9.439	35.222	3.41	0.10	27.220	0.340	1492.	329	332.0	6.957	35.053	4.24	0.14	27.467	0.418	1484.
232	234.0	9.408	35.219	3.41	0.10	27.223	0.342	1492.	331	334.0	6.936	35.053	4.26	0.14	27.470	0.420	1484.
234	236.0	9.400	35.219	3.40	0.10	27.224	0.344	1492.	333	336.1	6.901	35.052	4.28	0.14	27.474	0.421	1484.
236	238.0	9.384	35.217	3.40	0.10	27.225	0.346	1492.	335	338.0	6.864	35.051	4.30	0.15	27.478	0.422	1484.
238	240.0	9.339	35.212	3.41	0.10	27.230	0.348	1492.	337	340.0	6.806	35.049	4.35	0.15	27.485	0.424	1484.
240	242.0	9.265	35.204	3.39	0.10	27.236	0.349	1491.	339	342.0	6.757	35.047	4.37	0.15	27.490	0.425	1483.
242	244.0	9.149	35.192	3.41	0.10	27.245	0.351	1491.	341	344.0	6.701	35.044	4.42	0.15	27.495	0.426	1483.
244	246.0	9.102	35.187	3.42	0.10	27.248	0.353	1491.	343	346.0	6.662	35.042	4.46	0.15	27.499	0.427	1483.
246	248.0	9.064	35.185	3.44	0.10	27.253	0.354	1491.	345	348.0	6.623	35.041	4.42	0.15	27.503	0.429	1483.
248	250.1	9.006	35.180	3.41	0.10	27.258	0.356	1491.	347	350.0	6.598	35.040	4.44	0.16	27.506	0.430	1483.
250	251.9	8.974	35.175	3.44	0.10	27.260	0.358	1490.	349	352.0	6.549	35.039	4.45	0.16	27.511	0.431	1483.
252	254.0	8.955	35.174	3.44	0.11	27.262	0.360	1490.	351	354.0	6.474	35.034	4.47	0.16	27.518	0.432	1482.
254	256.0	8.938	35.174	3.44	0.11	27.265	0.361	1490.	353	356.0	6.406	35.032	4.54	0.16	27.525	0.434	1482.
256	257.9	8.858	35.167	3.47	0.11	27.272	0.363	1490.	355	358.0	6.377	35.032	4.59	0.16	27.529	0.435	1482.
258	260.0	8.729	35.158	3.49	0.11	27.286	0.365	1490.	357	359.9	6.355	35.031	4.56	0.17	27.531	0.436	1482.
260	262.0	8.653	35.152	3.52	0.11	27.293	0.366	1489.	359	362.0	6.326	35.030	4.57	0.17	27.534	0.437	1482.
262	264.0	8.588	35.147	3.53	0.11	27.299	0.368	1489.	361	364.0	6.288	35.029	4.64	0.17	27.538	0.438	1482.
264	266.1	8.539	35.143	3.55	0.11	27.304	0.370	1489.	363	366.0	6.244	35.026	4.67	0.18	27.542	0.440	1482.
266	268.0	8.493	35.140	3.56	0.11	27.309	0.371	1489.	365	368.0	6.207	35.025	4.66	0.18	27.546	0.441	1482.
268	270.1	8.429	35.134	3.57	0.11	27.314	0.373	1489.	367	370.0	6.167	35.023	4.71	0.18	27.550	0.442	1482.
270	272.0	8.369	35.130	3.61	0.11	27.320	0.374	1488.	369	372.0	6.150	35.022	4.75	0.18	27.551	0.443	1481.
272	274.0	8.312	35.126	3.63	0.11	27.326	0.376	1488.	371	374.1	6.132	35.022	4.78	0.18	27.553	0.445	1481.
274	276.0	8.257	35.122	3.68	0.11	27.331	0.378	1488.	373	376.0	6.123	35.022	4.80	0.19	27.554	0.445	1481.
276	278.0	8.166	35.116	3.65	0.11	27.340	0.379	1488.	375	378.0	6.121	35.022	4.81	0.19	27.554	0.447	1481.
278	280.1	8.142	35.115	3.65	0.11	27.343	0.381	1488.	377	380.0	6.121	35.022	4.82	0.19	27.555	0.448	1481.
280	282.0	8.126	35.113	3.73	0.11	27.344	0.382	1488.	379	382.0	6.122	35.022	4.80	0.19	27.555	0.449	1482.
282	284.0	8.081	35.110	3.70	0.11	27.349	0.384	1488.	381	383.9	6.121	35.022	4.77	0.19	27.554	0.450	1482.
284	286.0	8.051	35.109	3.69	0.11	27.352	0.385	1487.	383	386.1	6.120	35.022	4.77	0.19	27.554	0.451	1482.
286	288.0	8.045	35.109	3.73	0.11	27.353	0.387	1488.	385	388.0	6.119	35.022	4.82	0.20	27.555	0.452	1482.
288	290.0	8.023	35.107	3.76	0.11	27.355	0.388	1487.	387	390.0	6.110	35.021	4.84	0.20	27.555	0.453	1482.
290	292.0	7.989	35.105	3.74	0.12	27.358	0.390	1487.	389	392.1	6.098	35.020	4.81	0.20	27.556	0.455	1482.
292	294.1	7.958	35.103	3.74	0.12	27.362	0.391	1487.	391	394.0	6.079	35.019	4.81	0.20	27.558	0.456	1482.
294	296.0	7.922	35.100	3.77	0.12	27.364	0.393	1487.	393	396.0	6.055	35.018	4.83	0.21	27.560	0.457	1481.
296	297.9	7.815	35.094	3.80	0.12	27.375	0.394	1487.	395	398.1	6.049	35.018	4.81	0.21	27.561	0.458	1481.
298	300.0	7.760	35.091	3.82	0.12	27.382	0.396	1487.	396	399.9	6.045	35.018	4.83	0.21	27.561	0.459	1482.

SHIP OC	CRUISE 122	STATION 49	DATE 13 JUL 1982	EST 1513	LATITUDE 40°14.3'N	LONGITUDE 67°57.6'W	DEPTH 800			
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
399	402.0	6.032	35.017	4.82	0.21	27.562	0.460	1481.	2.0	
400	404.0	6.021	35.016	4.84	0.21	27.563	0.461	1481.	2.1	
402	406.0	5.970	35.012	4.82	0.22	27.566	0.463	1481.	2.2	
404	408.0	5.895	35.009	4.82	0.22	27.574	0.464	1481.	2.3	
406	410.0	5.864	35.008	4.86	0.21	27.577	0.465	1481.	2.2	
408	412.0	5.852	35.009	4.89	0.21	27.579	0.466	1481.	2.1	
410	414.0	5.846	35.010	4.92	0.21	27.580	0.467	1481.	1.8	
412	416.0	5.842	35.010	4.85	0.21	27.581	0.468	1481.	1.5	
414	418.0	5.830	35.010	4.87	0.21	27.583	0.469	1481.	1.4	
416	420.0	5.825	35.010	4.86	0.21	27.583	0.470	1481.	1.4	
418	422.0	5.813	35.010	4.87	0.21	27.584	0.472	1481.	1.4	
420	424.0	5.794	35.008	4.89	0.21	27.586	0.473	1481.	1.4	
422	426.0	5.778	35.006	4.90	0.21	27.586	0.474	1481.	1.4	
424	428.0	5.760	35.007	4.95	0.21	27.589	0.475	1481.	1.3	
426	430.0	5.759	35.007	4.94	0.22	27.589	0.476	1481.	1.3	
428	432.1	5.757	35.008	4.93	0.22	27.590	0.477	1481.	1.1	
430	433.9	5.755	35.008	4.91	0.22	27.590	0.478	1481.	1.0	
432	436.0	5.755	35.008	4.93	0.22	27.590	0.479	1481.	1.0	
434	438.0	5.754	35.008	4.90	0.22	27.590	0.480	1481.	1.1	
436	440.0	5.747	35.008	4.90	0.22	27.591	0.481	1481.	1.2	
438	442.0	5.728	35.007	4.91	0.22	27.593	0.482	1481.	1.2	
440	444.0	5.718	35.007	4.93	0.22	27.594	0.484	1481.	1.3	
442	446.1	5.713	35.007	4.95	0.22	27.595	0.485	1481.	1.3	
444	447.9	5.709	35.007	4.96	0.23	27.595	0.486	1481.	1.3	
446	450.0	5.698	35.006	4.95	0.23	27.596	0.487	1481.	1.3	
448	452.0	5.680	35.005	4.98	0.23	27.597	0.488	1481.	1.3	
450	454.0	5.665	35.004	4.95	0.23	27.598	0.489	1481.	1.4	
452	455.9	5.640	35.002	4.96	0.23	27.600	0.490	1481.	1.5	
454	458.0	5.633	35.002	4.97	0.24	27.601	0.491	1481.	1.5	
456	460.1	5.624	35.001	5.01	0.24	27.601	0.492	1481.	1.6	
458	462.0	5.587	34.998	5.03	0.24	27.604	0.493	1481.	1.6	
460	464.0	5.574	34.998	5.00	0.24	27.605	0.494	1481.	1.7	
462	466.0	5.545	34.996	5.04	0.24	27.607	0.495	1481.	1.7	
464	468.0	5.524	34.995	5.03	0.24	27.609	0.497	1481.	1.7	
466	470.1	5.508	34.994	5.06	0.24	27.610	0.498	1480.	1.6	
468	471.9	5.494	34.993	5.05	0.25	27.611	0.499	1480.	1.6	
470	474.0	5.476	34.992	5.05	0.25	27.613	0.500	1480.	1.7	
472	476.0	5.457	34.991	5.09	0.25	27.613	0.501	1480.	1.8	
474	478.0	5.430	34.988	5.11	0.25	27.615	0.502	1480.	1.9	
476	480.0	5.412	34.987	5.12	0.26	27.616	0.503	1480.	1.9	
478	481.9	5.372	34.986	5.17	0.26	27.620	0.504	1480.	1.9	
480	484.0	5.348	34.987	5.16	0.25	27.624	0.505	1480.	1.8	
482	486.0	5.342	34.987	5.18	0.25	27.625	0.506	1480.	1.7	
484	488.0	5.333	34.987	5.15	0.25	27.626	0.507	1480.	1.6	
486	490.1	5.320	34.987	5.16	0.25	27.627	0.508	1480.	1.5	
488	491.9	5.311	34.985	5.18	0.25	27.627	0.509	1480.	1.5	
490	494.0	5.299	34.984	5.16	0.25	27.628	0.510	1480.	1.6	
492	496.0	5.255	34.982	5.22	0.26	27.631	0.511	1480.	1.7	
493	497.9	5.228	34.980	5.23	0.26	27.633	0.512	1480.	1.7	
496	500.0	5.207	34.979	5.24	0.26	27.634	0.513	1480.	1.8	

STA 50 DAY: 13 TIME: 1652

DEPTH (m)	TEMP (°C)	DEPTH (m)	TEMP (°C)	DEPTH (m)	TEMP (°C)	DEPTH (m)	TEMP (°C)	DEPTH (m)	TEMP (°C)	DEPTH (m)	TEMP (°C)	DEPTH (m)	TEMP (°C)	DEPTH (m)	TEMP (°C)	DEPTH (m)	TEMP (°C)	DEPTH (m)	TEMP (°C)
0.0	23.5	27.3	18.6	55.4	15.5	97.0	13.8	141.2	12.2	193.9	10.4	260.4	8.6	344.3	6.8	397.6	5.9	495.8	5.2
0.0	23.3	27.3	18.5	56.4	15.4	97.9	13.8	142.2	12.2	195.8	10.4	261.4	8.5	344.3	6.7	398.5	5.9	497.7	5.2
0.0	23.2	27.3	18.4	56.4	15.4	98.9	13.7	143.1	12.1	196.7	10.4	263.4	8.5	345.2	6.7	399.5	5.9	499.5	5.2
1.0	23.2	29.2	18.3	57.3	15.3	99.9	13.7	144.1	12.1	197.7	10.3	265.1	8.5	345.2	6.7	399.5	5.9	501.4	5.2
1.9	23.1	29.2	18.2	57.3	15.3	101.8	13.7	146.0	12.0	198.6	10.3	267.0	8.4	346.2	6.7	400.4	6.0	503.2	5.2
1.9	23.0	30.2	18.1	58.3	15.3	102.8	13.7	147.0	12.0	199.6	10.3	268.9	8.4	347.1	6.7	401.3	5.9	504.1	5.1
1.9	23.0	30.2	18.1	58.3	15.3	103.7	13.7	148.9	11.9	201.5	10.2	270.8	8.3	348.1	6.7	402.3	5.9	508.7	5.1
2.9	23.0	31.1	17.9	59.3	15.3	103.7	13.8	149.9	11.9	202.5	10.2	272.7	8.3	348.1	6.7	404.1	5.9	509.6	5.0
3.9	22.9	31.1	17.9	60.2	15.2	104.7	13.8	150.8	11.9	204.4	10.2	275.6	8.3	349.0	6.7	405.1	5.9	512.4	5.0
4.9	22.8	32.1	17.8	60.2	15.1	105.6	13.8	152.7	11.9	205.3	10.2	277.4	8.2	349.9	6.7	406.9	5.9	512.4	5.0
4.9	22.8	32.1	17.8	61.2	15.0	106.6	13.8	153.7	11.9	206.3	10.2	280.3	8.2	350.9	6.6	407.8	5.9	516.1	5.0
4.9	22.7	34.1	17.7	62.2	15.0	107.6	13.7	155.6	11.9	208.2	10.1	281.2	8.2	351.8	6.6	408.8	5.9	518.8	5.0
5.8	22.6	34.1	17.6	64.1	15.0	108.5	13.7	155.6	11.8	208.2	10.1	282.2	8.1	353.7	6.6	411.6	5.8	522.5	5.0
5.8	22.6	34.1	17.5	65.1	15.0	109.5	13.7	156.6	11.8	209.1	10.0	285.9	8.0	353.7	6.6	413.4	5.8	526.2	5.0
6.8	22.6	35.0	17.4	65.1	14.9	111.4	13.7	157.5	11.7	211.0	10.0	286.9	8.0	353.7	6.5	414.4	5.7	528.9	5.0
7.8	22.5	35.0	17.4	66.0	14.9	112.4	13.7	159.4	11.7	212.0	10.0	288.8	8.0	353.7	6.6	417.2	5.7	531.7	5.0
7.8	22.5	36.0	17.4	67.0	14.8	113.4	13.6	160.4	11.7	212.9	10.0	290.7	7.9	354.6	6.7	418.1	5.7	534.4	4.9
9.7	22.4	37.0	17.4	68.0	14.8	114.3	13.6	161.4	11.7	212.9	9.9	291.6	7.9	354.6	6.6	421.8	5.7	537.2	4.9
10.7	22.2	38.9	17.3	69.9	14.8	115.3	13.5	163.3	11.7	213.9	9.8	293.5	7.8	355.6	6.6	424.6	5.7	539.9	4.9
11.7	22.1	37.9	17.2	69.9	14.7	115.3	13.4	164.2	11.7	213.9	9.8	294.4	7.8	356.5	6.6	426.5	5.7	541.8	4.9
11.7	22.0	38.9	17.2	70.9	14.7	116.2	13.4	166.2	11.7	214.8	9.8	295.4	7.7	356.5	6.5	428.3	5.6	544.5	4.9
12.7	21.9	38.9	17.1	70.9	14.6	117.2	13.4	167.1	11.6	215.8	9.7	296.3	7.6	357.4	6.5	429.2	5.6	546.4	4.9
12.7	21.8	39.9	17.0	71.9	14.5	118.2	13.4	168.1	11.6	217.7	9.7	298.2	7.5	357.4	6.6	431.1	5.5	549.1	4.9
12.7	21.6	39.9	16.9	71.9	14.4	120.1	13.4	169.0	11.6	219.6	9.6	302.0	7.5	358.4	6.6	433.9	5.5	553.7	4.9
14.6	21.4	40.9	16.8	72.8	14.4	121.1	13.4	170.0	11.5	219.6	9.6	302.9	7.4	359.3	6.5	435.7	5.5	555.5	4.8
14.6	21.3	40.9	16.7	72.8	14.4	122.0	13.4	170.0	11.5	220.5	9.5	302.9	7.4	359.3	6.5	437.6	5.4	558.3	4.8
13.6	21.2	41.8	16.6	73.8	14.4	123.0	13.4	170.9	11.4	222.4	9.4	304.8	7.4	361.2	6.5	441.3	5.4	561.9	4.8
14.6	21.2	42.8	16.7	74.8	14.5	124.9	13.4	170.9	11.4	224.4	9.4	305.8	7.3	363.0	6.5	442.2	5.4	564.7	4.8
15.6	21.1	43.8	16.7	76.7	14.5	125.9	13.4	171.9	11.3	226.3	9.4	307.6	7.3	364.0	6.4	445.0	5.5	569.2	4.8
18.5	20.9	45.7	16.6	77.7	14.4	126.8	13.3	171.9	11.2	227.2	9.3	309.5	7.2	365.8	6.4	446.9	5.4	572.0	4.8
19.5	20.8	45.7	16.5	78.6	14.3	126.8	13.1	173.8	11.1	231.0	9.2	314.2	7.1	368.7	6.4	452.4	5.4	578.3	4.8
19.5	20.7	45.7	16.5	79.6	14.3	127.8	13.1	174.8	11.1	232.9	9.2	316.1	7.1	370.5	6.4	454.3	5.4	582.0	4.8
20.4	20.6	46.7	16.4	80.6	14.3	127.8	13.0	176.7	11.0	234.8	9.1	321.8	7.1	372.4	6.3	455.2	5.4	584.7	4.8
20.4	20.6	46.7	16.4	81.5	14.3	129.7	13.0	176.7	11.0	236.7	9.0	324.6	7.1	373.3	6.2	462.6	5.4	590.2	4.7
22.4	20.5	46.7	16.1	82.5	14.2	130.7	13.0	177.6	11.0	238.6	9.0	326.5	7.1	375.2	6.2	464.5	5.4	594.7	4.7
22.4	20.4	46.7	16.0	83.5	14.2	131.6	12.9	178.6	11.0	240.5	9.0	328.3	7.0	377.1	6.2	467.2	5.4	600.2	4.7
23.4	20.2	47.6	15.9	85.4	14.2	132.6	12.9	180.5	10.9	242.4	9.0	330.2	7.0	379.9	6.1	469.1	5.4	604.8	4.6
23.4	20.1	47.6	15.8	86.4	14.1	132.6	12.9	181.5	10.9	244.3	9.0	332.1	7.0	380.8	6.1	472.8	5.4	610.2	4.7
23.4	19.9	48.6	15.8	88.3	14.1	133.5	12.8	183.4	10.8	245.2	9.0	331.2	7.0	381.7	6.1	473.7	5.4	614.7	4.7
23.4	19.8	49.6	15.8	88.3	14.0	133.5	12.8	184.3	10.8	247.1	9.0	333.0	6.9	384.5	6.1	475.5	5.4	619.3	4.6
24.3	19.7	50.6	15.8	89.2	14.0	134.5	12.7	185.3	10.8	248.1	9.0	333.0	6.9	384.5	6.1	475.5	5.4	619.3	4.6
24.3	19.5	51.5	15.8	90.2	13.9	135.5	12.7	186.2	10.7	249.0	8.9	334.9	6.8	386.4	6.1	476.4	5.3	622.9	4.6
24.3	19.3	52.5	15.6	91.2	13.9	136.4	12.7	187.2	10.7	250.9	8.9	336.8	6.8	388.3	6.1	477.4	5.3	624.7	4.6
24.3	19.2	53.5	15.6	93.1	13.9	136.4	12.6	189.1	10.7	251.9	8.9	338.7	6.8	388.3	6.1	480.2	5.3	627.5	4.6
25.3	19.2	53.5	15.5	93.1	13.9	137.4	12.5	190.1	10.7	253.8	8.8	339.6	6.7	390.1	6.1	482.9	5.3	629.3	4.6
25.3	19.1	53.5	15.4	93.1	13.9	138.3	12.5	190.1	10.6	254.7	8.8	340.5	6.7	390.1	6.1	485.7	5.3	632.9	4.6
26.3	19.0	53.5	15.4	94.1	13.9	140.3	12.5	191.0	10.5	256.6	8.7	341.5	6.7	392.9	6.0	488.5	5.3	634.7	4.6
26.3	18.8	54.4	15.4	95.0	13.9	140.3	12.4	192.0	10.5	256.6	8.7	342.4	6.8	394.8	6.0	492.2	5.2	637.4	4.6
27.3	18.7	55.4	15.4	96.0	13.8	141.2	12.3	192.9	10.4	258.5	8.7	343.4	6.7	395.7	6.0	494.0	5.2	639.2	4.6

STA 50 DAY: 13 TIME: 1652

DEPTH (m)	TEMP (°C)	DEPTH (m)	TEMP (°C)
640.1	4.6	853.6	4.2
642.8	4.6	858.0	4.2
644.7	4.6	862.4	4.2
647.4	4.6	865.9	4.2
649.2	4.6	869.4	4.2
655.5	4.6	872.9	4.2
661.8	4.6	876.4	4.2
664.5	4.6	878.2	4.2
668.1	4.6		
671.8	4.6		
676.3	4.5		
679.9	4.5		
682.6	4.5		
687.1	4.5		
690.7	4.5		
695.2	4.5		
697.9	4.4		
700.6	4.4		
704.1	4.4		
708.6	4.4		
712.2	4.4		
716.7	4.4		
721.2	4.4		
729.2	4.4		
734.6	4.5		
738.2	4.4		
742.7	4.4		
745.3	4.4		
749.8	4.4		
753.4	4.4		
756.9	4.4		
760.5	4.4		
763.2	4.4		
767.6	4.4		
770.3	4.4		
773.9	4.4		
778.3	4.4		
783.7	4.4		
788.1	4.4		
796.1	4.3		
803.2	4.3		
812.9	4.3		
820.0	4.3		
826.2	4.3		
830.6	4.3		
834.2	4.3		
839.5	4.3		
843.0	4.3		
847.4	4.2		
850.0	4.2		

STA 51 DAY: 13 TIME: 1753

DEPTH (m)	TEMP (°C)	DEPTH (m)	TEMP (°C)	DEPTH (m)	TEMP (°C)	DEPTH (m)	TEMP (°C)	DEPTH (m)	TEMP (°C)
0.0	23.4	28.2	19.2	45.7	16.6	69.0	15.0	107.6	13.0
1.9	23.4	29.2	19.1	46.7	16.5	69.9	15.0	108.5	13.0
2.9	23.2	29.2	19.1	46.7	16.6	70.9	15.0	109.5	13.0
3.9	23.1	30.2	18.8	47.6	16.6	70.9	14.9	111.4	13.0
4.9	22.9	30.2	18.7	48.6	16.6	71.9	14.9	113.4	12.9
5.8	22.9	31.1	18.6	48.6	16.7	72.8	14.8	114.3	12.9
5.8	22.8	31.1	18.5	49.6	16.8	72.8	14.7	115.3	12.9
6.8	22.7	32.1	18.4	50.6	16.8	72.8	14.6	116.2	12.9
6.8	22.6	32.1	18.3	50.6	16.8	73.8	14.5	117.2	13.0
7.8	22.5	32.1	18.2	51.5	16.8	73.8	14.5	118.2	13.0
9.7	22.4	32.1	18.2	51.5	16.7	74.8	14.4	118.2	13.1
10.7	22.3	32.1	18.1	52.5	16.6	74.8	14.3	119.1	13.1
10.7	22.3	32.1	18.0	52.5	16.5	75.7	14.3	120.1	13.1
10.7	22.2	33.1	17.9	53.5	16.3	75.7	14.3	122.0	13.1
11.7	22.2	33.1	17.9	53.5	16.2	76.7	14.3	123.9	13.1
11.7	22.1	33.1	17.8	53.5	16.1	77.7	14.4	124.9	13.1
12.7	22.0	34.1	17.8	54.4	16.0	77.7	14.4	125.9	13.1
12.7	22.0	34.1	17.8	55.4	15.9	79.6	14.5	127.8	13.1
13.6	21.9	34.1	17.9	55.4	15.8	80.6	14.5	128.7	13.1
13.6	21.7	34.1	18.0	55.4	15.8	82.5	14.5	129.7	13.0
14.6	21.7	35.0	18.1	56.4	15.8	83.5	14.5	130.7	13.0
14.6	21.5	35.0	18.1	56.4	15.7	84.4	14.5	130.7	13.0
15.6	21.5	35.0	18.2	57.3	15.6	85.4	14.5	130.7	12.9
15.6	21.4	35.0	18.2	57.3	15.6	86.4	14.4	132.6	12.9
16.6	21.3	36.0	18.2	57.3	15.5	86.4	14.4	133.5	12.9
16.6	21.3	36.0	18.2	58.3	15.5	87.3	14.3	134.5	12.8
17.5	21.2	36.0	18.1	58.3	15.4	87.3	14.3	135.5	12.8
17.5	21.1	36.0	18.0	58.3	15.4	88.3	14.2	137.4	12.8
17.5	21.0	37.0	18.0	58.3	15.4	90.2	14.1	139.3	12.8
18.5	20.9	37.0	18.0	59.3	15.5	90.2	14.1	140.3	12.7
18.5	20.8	37.9	17.9	59.3	15.5	91.2	14.0	141.2	12.7
19.5	20.8	37.9	17.9	60.2	15.6	91.2	13.9	141.2	12.7
19.5	20.7	37.9	17.8	60.2	15.7	92.1	13.9	142.2	12.6
20.4	20.7	38.9	17.7	61.2	15.7	93.1	13.8	143.1	12.5
20.4	20.6	38.9	17.7	62.2	15.7	94.1	13.8	146.0	12.5
21.4	20.5	39.9	17.6	63.1	15.7	95.0	13.8	147.0	12.5
22.4	20.4	39.9	17.5	63.1	15.6	96.0	13.8	147.9	12.5
22.4	20.3	39.9	17.5	64.1	15.5	97.9	13.7	148.9	12.4
22.4	20.3	39.9	17.4	64.1	15.4	97.9	13.6	149.9	12.4
23.4	20.2	40.9	17.3	64.1	15.4	97.9	13.5	152.7	12.3
23.4	20.1	41.8	17.3	65.1	15.3	98.9	13.5	152.7	12.3
24.3	20.1	41.8	17.3	65.1	15.2	98.9	13.4	154.7	12.2
24.3	20.0	42.8	17.2	65.1	15.1	99.9	13.4	156.6	12.2
25.3	19.9	42.8	17.1	65.1	15.0	100.8	13.4	158.5	12.2
26.3	19.8	42.8	17.0	66.0	15.0	101.8	13.3	159.4	12.2
26.3	19.7	43.8	16.9	66.0	14.9	102.8	13.2	160.4	12.1
27.3	19.6	43.8	16.8	66.0	14.9	103.7	13.2	162.3	12.1
27.3	19.5	44.7	16.8	67.0	14.9	104.7	13.1	164.2	12.1
28.2	19.4	44.7	16.7	68.0	14.9	105.6	13.1	165.2	12.0
28.2	19.3	44.7	16.6	69.0	15.0	106.6	13.1	166.2	12.0

STA 51 DAY: 13 TIME: 1753

STA 51			DAY: 13		TIME: 1753	
DEPTH	TEMP	DEPTH	TEMP	EYTH	TEMP	
(m)	(°C)	(m)	(°C)	(m)	(°C)	
166.2	11.9	224.4	9.8	298.2	7.9	
168.1	11.9	226.3	9.8	299.2	7.8	
170.0	11.9	226.3	9.7	299.2	7.8	
170.9	11.8	227.2	9.7	300.1	7.6	
171.9	11.8	228.2	9.6	300.1	7.6	
172.9	11.7	228.2	9.5	301.0	7.5	
174.8	11.7	229.1	9.4	302.0	7.4	
176.7	11.7	231.0	9.4	302.0	7.3	
178.6	11.7	232.9	9.3	302.9	7.3	
178.6	11.7	234.8	9.3	303.9	7.2	
179.5	11.6	235.8	9.3	304.8	7.1	
180.5	11.6	236.7	9.3	304.8	7.0	
182.4	11.6	238.6	9.3	305.8	7.0	
184.3	11.5	240.5	9.3	307.6	6.9	
186.2	11.5	241.5	9.2	308.6	6.9	
187.2	11.5	242.4	9.2	310.5	6.9	
188.1	11.4	244.3	9.2	310.5	6.9	
188.1	11.3	246.2	9.1	312.4	6.8	
189.1	11.2	247.1	9.1	314.2	6.8	
189.1	11.2	248.1	9.1	317.1	6.8	
190.1	11.1	250.0	9.0	318.0	6.8	
191.0	11.1	250.9	9.0	319.9	6.8	
192.0	11.0	252.8	9.0	320.8	6.8	
192.9	11.0	255.7	8.9	321.8	6.7	
193.9	10.8	256.6	8.9	322.7	6.6	
194.8	10.8	257.6	8.9	324.6	6.6	
196.7	10.8	261.4	8.8	326.5	6.6	
197.7	10.7	264.2	8.8	328.3	6.6	
199.6	10.7	266.1	8.8	330.2	6.5	
200.5	10.7	268.9	8.8	330.2	6.5	
203.4	10.7	270.8	8.8	330.2	6.4	
204.4	10.6	273.7	8.8			
205.3	10.6	275.6	8.8			
205.3	10.5	278.4	8.8			
206.3	10.5	279.3	8.7			
207.2	10.4	280.3	8.7			
208.2	10.4	280.3	8.6			
209.1	10.4	282.2	8.5			
211.0	10.3	283.1	8.5			
212.0	10.3	284.1	8.4			
212.9	10.3	285.9	8.3			
212.9	10.2	286.9	8.2			
214.8	10.2	287.8	8.2			
215.8	10.2	288.8	8.1			
216.7	10.1	290.7	8.1			
217.7	10.1	291.6	8.0			
218.6	10.1	293.5	8.0			
219.6	10.0	294.4	8.0			
222.4	10.0	296.3	8.0			
223.4	9.9	296.3	7.9			

STA 53			DAY: 13		TIME: 1925		
DEPTH	TEMP	DEPTH	TEMP	DEPTH	TEMP	DEPTH	TEMP
(m)	(°C)	(m)	(°C)	(m)	(°C)	(m)	(°C)
1.0	23.5	33.1	20.2	41.8	14.1	91.2	13.0
1.9	23.4	33.1	20.1	41.8	14.0	93.1	13.0
3.9	23.4	33.1	20.0	42.8	14.0	95.0	13.0
4.9	23.4	33.1	19.9	42.8	13.9	97.0	12.9
6.8	23.4	33.1	19.8	44.7	13.9	97.9	12.9
7.8	23.4	33.1	19.6	45.7	13.9	98.9	12.8
9.7	23.3	33.1	19.5	45.7	13.9	100.8	12.8
10.7	23.3	34.1	19.4	45.7	13.8	103.7	12.8
11.7	23.2	34.1	19.3	46.7	13.8	104.7	12.8
13.6	23.2	34.1	19.2	47.6	13.8	106.6	12.7
14.6	23.2	34.1	19.1	47.6	13.7	107.6	12.7
14.6	23.2	34.1	19.1	48.6	13.7	108.5	12.7
14.6	23.1	35.0	19.0	48.6	13.6	110.5	12.6
15.6	23.1	35.0	18.8	48.6	13.6	111.4	12.6
16.6	23.0	35.0	18.6	49.6	13.5	113.4	12.6
18.5	22.9	35.0	18.5	49.6	13.5	115.3	12.6
19.5	22.9	36.0	18.4	50.6	13.5	117.2	12.5
20.4	22.9	35.0	18.3	51.5	13.5	118.2	12.5
20.4	22.8	36.0	18.1	52.5	13.5	120.1	12.5
21.4	22.8	36.0	18.1	52.5	13.5	120.1	12.5
21.4	22.7	36.0	17.9	55.4	13.5	123.0	12.4
22.4	22.6	37.0	17.8	56.4	13.5	123.9	12.3
23.4	22.5	37.0	17.6	58.3	13.5	124.9	12.3
24.3	22.4	37.0	17.3	60.2	13.5	125.9	12.2
25.3	22.3	37.0	17.1	62.2	13.5	125.9	12.1
26.3	22.2	37.9	17.0	64.1	13.5	126.8	12.1
26.3	22.1	37.9	16.9	65.1	13.5	128.7	12.1
27.3	22.0	38.9	16.8	66.0	13.5	131.6	12.1
28.2	21.9	38.9	16.6	68.0	13.5	133.5	12.1
29.2	21.7	39.9	16.1	69.0	13.5	135.5	12.1
29.2	21.6	39.9	16.0	69.9	13.4	137.4	12.1
30.2	21.4	39.9	15.7	69.9	13.3	139.3	12.1
31.1	21.3	40.9	15.6	73.8	13.3	141.2	12.1
31.1	21.2	40.9	15.4	74.8	13.3	142.2	12.1
31.1	21.2	40.9	15.4	75.7	13.2	145.1	12.1
32.1	21.1	40.9	15.0	76.7	13.2		
32.1	21.1	40.9	14.9	77.7	13.2		
32.1	20.8	40.9	14.7	78.6	13.2		
32.1	20.7	40.9	14.6	81.5	13.1		
32.1	20.6	41.8	14.5	82.5	13.1		
33.1	20.4	41.8	14.2	83.5	13.0		
				85.4	13.0		
				87.3	13.0		
				88.3	13.0		

SHIP	CRUISE	STATION	DATE		EST	LATITUDE	LONGITUDE	DEPTH
OC	122	54	13 JUL 1982		1851	40°24.2'N	68°00.3'W	143
DEPTH	PRESS	TEMP	SALIN	OXY	ATN	SIGT	DYHT A	S SPD
m	dbar	°C	psu	ml/l	m ⁻¹	gm/cm ³	10m ² /s ²	m/s
2	2.1	22.119	34.779	5.01	0.25	24.018	0.000	1527.
4	4.1	22.350	34.937	5.00	0.23	24.073	0.008	1528.
6	6.0	22.449	34.995	5.01	0.22	24.089	0.015	1528.
8	8.0	22.502	35.072	5.01	0.21	24.132	0.022	1528.
10	9.9	22.495	35.089	4.91	0.21	24.147	0.030	1528.
12	12.1	22.443	35.091	4.90	0.21	24.163	0.038	1528.
14	13.9	22.467	35.156	4.91	0.21	24.206	0.045	1528.
16	16.1	22.486	35.216	4.90	0.21	24.246	0.053	1529.
18	18.0	22.414	35.253	4.87	0.21	24.295	0.060	1529.
20	19.9	22.210	35.233	4.96	0.21	24.338	0.067	1528.
22	22.1	21.618	35.102	5.06	0.23	24.403	0.074	1526.
24	23.9	20.910	35.054	5.15	0.26	24.561	0.080	1524.
26	26.1	20.805	35.166	5.21	0.27	24.674	0.088	1524.
28	28.0	20.756	35.256	5.29	0.27	24.757	0.094	1524.
30	30.0	20.677	35.331	5.28	0.28	24.835	0.100	1524.
32	32.0	20.375	35.461	5.31	0.27	25.015	0.106	1524.
34	34.1	19.813	35.386	5.39	0.29	25.106	0.113	1522.
36	35.9	19.492	35.439	5.43	0.30	25.231	0.117	1521.
38	38.1	18.415	35.411	5.59	0.32	25.485	0.123	1518.
40	39.9	17.214	35.326	5.75	0.38	25.714	0.128	1514.
42	42.1	16.991	35.387	5.67	0.40	25.815	0.132	1514.
44	43.9	16.835	35.398	5.63	0.40	25.860	0.136	1514.
46	46.0	16.349	35.408	5.55	0.38	25.982	0.141	1512.
48	48.1	15.834	35.411	5.49	0.30	26.102	0.145	1511.
50	50.0	15.643	35.423	5.28	0.27	26.156	0.148	1510.
52	52.0	15.020	35.374	5.16	0.21	26.257	0.152	1508.
54	54.0	14.079	35.265	5.09	0.15	26.376	0.156	1505.
56	56.0	13.984	35.290	4.90	0.15	26.415	0.159	1505.
58	58.1	13.989	35.334	4.81	0.14	26.448	0.162	1503.
59	59.9	13.557	35.251	4.83	0.14	26.474	0.165	1503.
62	62.1	12.888	35.143	4.91	0.14	26.527	0.168	1501.
63	63.9	12.870	35.223	4.87	0.13	26.592	0.171	1501.
66	66.2	12.909	35.289	4.84	0.12	26.636	0.174	1501.
67	67.8	13.077	35.386	4.76	0.11	26.677	0.177	1502.
69	70.0	13.158	35.441	4.70	0.10	26.703	0.180	1502.
71	72.0	13.090	35.451	4.72	0.10	26.725	0.182	1502.
73	74.1	13.007	35.447	4.69	0.09	26.739	0.185	1502.
75	75.8	12.991	35.451	4.72	0.09	26.745	0.187	1502.
77	78.0	12.988	35.459	4.65	0.09	26.752	0.190	1502.
79	80.1	12.980	35.461	4.67	0.09	26.755	0.193	1502.
81	81.9	12.968	35.464	4.68	0.09	26.760	0.195	1502.
83	84.0	12.945	35.471	4.66	0.09	26.770	0.198	1502.
85	86.0	12.931	35.486	4.65	0.09	26.784	0.200	1502.
87	88.1	12.939	35.491	4.59	0.09	26.786	0.203	1502.
89	89.9	12.937	35.494	4.57	0.09	26.789	0.206	1502.
91	91.9	12.910	35.497	4.55	0.09	26.797	0.208	1502.
93	94.1	12.880	35.505	4.53	0.09	26.809	0.211	1502.
95	95.9	12.868	35.510	4.54	0.09	26.815	0.213	1502.
97	98.0	12.800	35.509	4.43	0.09	26.828	0.216	1502.
99	100.1	12.795	35.514	4.42	0.09	26.833	0.218	1502.

SHIP	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH			
OC	122	54	13 JUL 1982	1851	40°24.2'N	68°00.3'W	143			
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	10m ² /s ²	m/s	cph
101	102.0	12.797	35.517	4.42	0.09	26.835	0.221	1502.	3.0	
103	104.0	12.787	35.522	4.39	0.09	26.841	0.223	1502.	2.9	
105	105.9	12.768	35.525	4.36	0.09	26.847	0.225	1502.	2.9	
107	107.9	12.756	35.526	4.34	0.09	26.850	0.228	1502.	3.2	
109	110.1	12.749	35.529	4.30	0.09	26.854	0.231	1502.	3.4	
111	111.9	12.727	35.532	4.31	0.09	26.861	0.233	1502.	3.5	
113	114.1	12.630	35.527	4.26	0.09	26.876	0.235	1501.	3.5	
115	116.0	12.556	35.521	4.23	0.09	26.886	0.238	1501.	3.4	
117	118.0	12.539	35.527	4.19	0.09	26.894	0.240	1501.	3.1	
119	120.1	12.559	35.536	4.16	0.09	26.897	0.242	1501.	2.7	
121	121.9	12.574	35.541	4.14	0.09	26.898	0.245	1501.	2.2	
123	124.1	12.584	35.546	4.11	0.09	26.900	0.247	1501.	1.9	
125	126.0	12.585	35.548	4.11	0.09	26.901	0.249	1502.	1.8	
127	128.0	12.577	35.548	4.11	0.09	26.903	0.252	1502.	2.0	
129	130.0	12.554	35.546	4.09	0.09	26.906	0.254	1501.	2.5	
130	131.3	12.541	35.544	4.07	0.09	26.907	0.256	1501.	3.1	
131	132.0	12.475	35.532	4.09	0.10	26.911	0.256	1501.	3.6	
132	133.0	12.440	35.529	4.06	0.10	26.915	0.258	1501.	4.2	
133	134.0	12.322	35.515	4.07	0.10	26.928	0.259	1501.	4.2	
134	135.1	12.259	35.511	4.06	0.10	26.937	0.260	1501.	4.2	
135	136.0	12.237	35.510	4.08	0.10	26.940	0.261	1500.	4.2	
136	137.2	12.172	35.504	4.06	0.11	26.948	0.262	1500.	4.2	

SHIP	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH			
OC	122	55	13 JUL 1982	1941	40°29.5'N	68°00.5'W	121			
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	10m ² /s ²	m/s	cph
3	2.9	21.689	34.622	5.10	0.29	24.019	0.000	1526.	11.1	
4	3.9	21.685	34.624	5.33	0.35	24.022	0.004	1526.	11.1	
6	6.0	21.425	34.618	5.37	0.36	24.089	0.012	1525.	11.1	
8	8.0	21.157	34.616	5.46	0.36	24.160	0.020	1524.	11.1	
10	9.9	21.077	34.626	5.52	0.35	24.190	0.027	1524.	11.1	
12	12.1	21.039	34.636	5.53	0.36	24.207	0.035	1524.	12.4	
14	14.0	20.989	34.647	5.55	0.37	24.230	0.042	1524.	13.4	
16	16.0	20.909	34.736	5.61	0.39	24.480	0.049	1522.	14.1	
18	18.0	19.588	34.801	5.74	0.41	24.719	0.056	1520.	14.6	
20	20.0	19.734	35.022	5.71	0.40	24.850	0.062	1521.	14.7	
22	22.0	19.901	35.208	5.65	0.40	24.948	0.068	1522.	14.2	
24	24.0	19.923	35.320	5.64	0.39	25.027	0.074	1522.	13.0	
26	26.0	19.778	35.417	5.66	0.40	25.140	0.080	1522.	12.2	
28	28.0	19.508	35.437	5.69	0.41	25.225	0.085	1521.	11.6	
30	30.0	19.194	35.446	5.73	0.42	25.314	0.091	1520.	11.2	
32	32.0	18.743	35.420	5.79	0.45	25.409	0.096	1519.	11.1	
34	34.0	18.353	35.386	5.85	0.48	25.481	0.101	1518.	10.7	
36	36.1	18.279	35.378	5.81	0.49	25.494	0.106	1518.	10.2	
38	38.0	17.931	35.374	5.79	0.50	25.577	0.111	1517.	9.8	
40	40.0	17.473	35.382	5.83	0.48	25.695	0.116	1515.	9.4	
42	42.0	17.429	35.391	5.79	0.45	25.712	0.120	1515.	9.0	
44	44.0	17.282	35.397	5.76	0.42	25.752	0.125	1515.	9.1	
46	45.9	17.051	35.388	5.71	0.40	25.801	0.129	1514.	8.8	
48	48.0	16.900	35.386	5.61	0.38	25.836	0.134	1514.	8.7	
50	50.0	16.807	35.406	5.47	0.35	25.873	0.138	1514.	9.0	
52	52.1	16.557	35.440	5.40	0.32	25.958	0.142	1513.	9.0	
54	54.1	16.426	35.466	5.28	0.31	26.008	0.146	1513.	8.8	
55	55.9	16.345	35.516	5.16	0.28	26.066	0.150	1512.	8.5	
58	58.1	16.292	35.559	5.10	0.26	26.111	0.154	1512.	7.9	
59	59.9	16.188	35.570	5.07	0.26	26.144	0.158	1512.	7.1	
62	62.1	16.093	35.564	5.00	0.25	26.161	0.162	1512.	6.4	
63	63.9	16.011	35.567	4.97	0.26	26.182	0.165	1512.	6.0	
66	66.0	15.960	35.580	4.92	0.24	26.204	0.169	1511.	6.4	
67	67.9	15.930	35.582	4.88	0.24	26.212	0.172	1511.	6.7	
69	70.0	15.886	35.595	4.83	0.23	26.232	0.176	1511.	7.5	
71	72.0	15.705	35.595	4.79	0.23	26.273	0.180	1511.	8.1	
73	74.0	15.384	35.601	4.80	0.22	26.351	0.183	1510.	8.3	
75	76.1	15.194	35.577	4.76	0.21	26.375	0.187	1509.	8.5	
77	77.9	14.751	35.564	4.77	0.20	26.463	0.190	1508.	8.2	
79	80.0	14.712	35.588	4.72	0.19	26.490	0.193	1508.	7.7	
81	82.1	14.591	35.586	4.70	0.19	26.514	0.196	1507.	7.1	
83	83.9	14.417	35.575	4.69	0.19	26.543	0.199	1507.	6.7	
85	86.0	14.273	35.556	4.66	0.18	26.559	0.202	1506.	6.1	
87	87.9	14.103	35.527	4.60	0.19	26.573	0.205	1506.	5.7	
89	90.0	13.620	35.445	4.62	0.20	26.611	0.208	1504.	5.2	
91	92.2	13.371	35.414	4.64	0.21	26.639	0.211	1503.	4.6	
93	93.9	13.336	35.406	4.63	0.22	26.640	0.213	1503.	4.0	
95	96.0	13.335	35.406	4.62	0.22	26.640	0.216	1503.	3.2	
97	98.0	13.328	35.405	4.61	0.22	26.641	0.219	1503.	2.0	
99	99.9	13.318	35.402	4.59	0.22	26.641	0.222	1503.	1.0	

SHIP	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH				
OC	122	56	13 JUL 1982	2051	40°35.0'N	68°00.6'W	93				
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	10m ² /s ²	m/s	cph	
101	102.1	13.315	35.402	4.58	0.22	26.641	0.225	1503.	1.0		
103	103.9	13.320	35.405	4.59	0.23	26.643	0.228	1503.	1.5		
104	105.3	13.312	35.404	4.57	0.22	26.643	0.229	1503.	2.1		
105	106.0	13.321	35.406	4.56	0.22	26.643	0.231	1503.	2.8		
106	107.0	13.313	35.405	4.57	0.22	26.644	0.232	1503.	3.4		
107	108.0	13.251	35.400	4.56	0.23	26.652	0.233	1503.	3.8		
108	109.0	13.198	35.399	4.55	0.23	26.662	0.235	1503.	3.9		
109	110.0	13.185	35.399	4.55	0.23	26.665	0.236	1503.	3.9		
110	111.0	13.156	35.398	4.55	0.23	26.671	0.238	1503.	3.8		
111	111.9	13.142	35.398	4.50	0.23	26.673	0.239	1503.	3.4		
112	113.0	13.136	35.397	4.49	0.23	26.673	0.240	1503.	3.4		
113	114.1	13.095	35.395	4.48	0.23	26.681	0.242	1503.	3.4		
114	114.9	13.081	35.394	4.49	0.22	26.682	0.243	1503.	3.4		
115	115.9	13.073	35.394	4.50	0.24	26.684	0.244	1503.	3.4		

SHIP	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH				
OC	122	56	13 JUL 1982	2051	40°35.0'N	68°00.6'W	93				
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	10m ² /s ²	m/s	cph	
3	2.8	22.151	35.063	5.03	0.23	24.224	0.000	1527.	11.2		
4	4.0	22.158	35.070	5.11	0.23	24.228	0.004	1527.	11.2		
6	6.0	22.296	35.190	5.07	0.23	24.280	0.012	1528.	11.2		
8	8.1	22.395	35.254	5.06	0.22	24.301	0.019	1528.	11.2		
10	10.0	22.184	35.326	5.14	0.21	24.415	0.026	1528.	11.2		
12	11.9	22.095	35.354	5.19	0.21	24.461	0.033	1528.	11.6		
14	14.0	21.749	35.414	5.23	0.21	24.604	0.040	1527.	11.9		
16	16.1	21.438	35.465	5.26	0.22	24.729	0.047	1526.	12.4		
18	17.9	21.230	35.481	5.31	0.22	24.798	0.053	1526.	12.3		
20	20.0	21.051	35.478	5.34	0.23	24.845	0.059	1525.	12.1		
22	22.0	20.696	35.486	5.38	0.24	24.948	0.065	1524.	11.9		
24	24.1	20.250	35.547	5.45	0.24	25.114	0.071	1523.	12.1		
26	26.0	20.139	35.561	5.49	0.25	25.154	0.076	1523.	12.2		
28	28.1	19.959	35.572	5.50	0.25	25.210	0.082	1522.	12.7		
30	29.9	19.474	35.581	5.57	0.26	25.344	0.087	1521.	12.8		
32	31.9	18.809	35.507	5.58	0.29	25.459	0.093	1519.	12.8		
34	34.0	17.657	35.219	5.56	0.29	25.525	0.098	1516.	13.1		
36	36.0	15.711	34.876	5.75	0.23	25.719	0.103	1509.	12.9		
38	38.0	14.686	34.675	5.70	0.22	25.791	0.107	1506.	12.2		
40	40.0	13.696	34.525	5.65	0.21	25.884	0.111	1503.	11.2		
42	42.0	13.111	34.497	5.64	0.21	25.981	0.115	1501.	9.9		
44	44.0	13.087	34.560	5.54	0.21	26.035	0.119	1501.	8.0		
46	45.9	13.226	34.606	5.43	0.21	26.043	0.123	1501.	6.6		
48	48.0	13.313	34.627	5.35	0.22	26.041	0.127	1502.	4.8		
50	50.1	13.282	34.624	5.32	0.21	26.045	0.131	1502.	2.9		
52	51.9	13.299	34.626	5.27	0.22	26.044	0.135	1502.	1.8		
54	54.1	13.262	34.620	5.28	0.22	26.046	0.139	1501.	1.8		
55	55.9	13.246	34.617	5.28	0.22	26.047	0.143	1501.	2.0		
58	58.0	13.205	34.612	5.27	0.22	26.051	0.147	1501.	2.1		
60	60.0	13.184	34.612	5.28	0.22	26.056	0.151	1501.	2.2		
61	61.9	13.176	34.613	5.27	0.22	26.058	0.155	1501.	2.1		
64	64.1	13.164	34.613	5.28	0.22	26.061	0.159	1501.	2.0		
65	66.0	13.163	34.616	5.28	0.22	26.064	0.163	1501.	1.8		
67	68.0	13.172	34.622	5.26	0.22	26.066	0.167	1501.	1.8		
69	70.0	13.180	34.625	5.27	0.22	26.066	0.170	1501.	2.0		
71	72.0	13.199	34.631	5.27	0.22	26.067	0.174	1502.	2.7		
73	73.9	13.205	34.634	5.25	0.22	26.069	0.178	1502.	3.4		
75	76.0	13.196	34.636	5.23	0.21	26.072	0.182	1502.	4.2		
77	78.0	13.165	34.641	5.21	0.21	26.082	0.186	1502.	5.0		
79	80.0	13.160	34.675	5.15	0.20	26.109	0.190	1502.	5.9		
81	81.2	13.171	34.706	5.12	0.20	26.131	0.192	1502.	6.5		
81	82.0	13.181	34.731	5.11	0.20	26.149	0.194	1502.	7.0		
82	83.0	13.196	34.769	5.10	0.19	26.175	0.196	1502.	7.1		
83	84.0	13.215	34.804	5.07	0.19	26.198	0.197	1502.	6.7		
84	85.0	13.214	34.805	5.02	0.19	26.199	0.199	1502.	6.1		
85	86.0	13.223	34.821	4.97	0.19	26.210	0.201	1502.	6.1		
86	87.0	13.226	34.827	4.90	0.19	26.214	0.203	1502.	6.1		
87	88.0	13.234	34.840	4.75	0.19	26.222	0.205	1502.	6.1		
88	88.9	13.242	34.850	4.79	0.19	26.228	0.206	1502.	6.1		

SHIP OC	CRUISE 122	STATION 57	DATE 14 JUL 1982	EST 0350	LATITUDE 40°39.9'N	LONGITUDE 68°00.7'W	DEPTH 85	SHIP OC	CRUISE 122	STATION 58	DATE 14 JUL 1982	EST 0530	LATITUDE 40°37.3'N	LONGITUDE 68°17.5'W	DEPTH 83		
DEPTH m	PRESS dbar	TEMP °C	SALIN psu	OXY ml/l	ATN m ⁻¹	SGT gm/cm ³	DYHT A 10m ² /s ²	S SPD m/s	N cph	TEMP °C	SALIN psu	OXY ml/l	ATN m ⁻¹	SGT gm/cm ³	DYHT A 10m ² /s ²	S SPD m/s	N cph
2	1.9	20.506	34.325	5.48	0.19	24.114	0.000	1522.	10.4	18.380	33.652	5.94	0.24	24.148	0.000	1515.	17.5
4	4.0	20.752	34.496	5.43	0.18	24.178	0.008	1523.	10.4	18.343	33.715	5.83	0.23	24.205	0.007	1515.	17.5
6	6.1	21.533	34.932	5.19	0.20	24.298	0.016	1526.	10.4	17.610	34.070	5.95	0.18	24.656	0.014	1514.	17.5
8	7.9	21.726	35.062	5.02	0.20	24.343	0.022	1526.	10.4	17.716	34.278	5.85	0.18	24.789	0.020	1514.	17.5
10	10.1	21.859	35.273	4.96	0.20	24.466	0.030	1527.	10.4	17.902	34.669	5.68	0.18	25.044	0.026	1515.	17.5
12	11.9	21.793	35.295	4.95	0.19	24.502	0.036	1527.	10.0	17.996	34.902	5.65	0.18	25.199	0.031	1516.	17.2
14	14.0	21.533	35.285	5.01	0.20	24.566	0.043	1526.	9.3	17.495	34.850	5.67	0.19	25.282	0.037	1514.	15.8
16	16.0	21.427	35.291	5.02	0.20	24.600	0.050	1526.	9.2	15.829	34.549	5.91	0.22	25.440	0.042	1509.	15.0
18	18.0	21.318	35.327	5.03	0.20	24.657	0.056	1526.	8.9	14.045	34.351	6.08	0.28	25.677	0.047	1503.	13.6
20	20.0	21.243	35.363	5.05	0.21	24.705	0.063	1526.	9.1	12.708	34.217	6.18	0.25	25.845	0.052	1499.	12.2
22	22.0	21.214	35.388	5.03	0.21	24.732	0.070	1526.	9.5	12.545	34.211	5.86	0.24	25.872	0.056	1498.	10.6
24	24.0	21.071	35.451	5.00	0.22	24.819	0.076	1525.	10.1	12.516	34.214	5.68	0.23	25.880	0.060	1498.	8.2
26	26.0	20.952	35.480	5.02	0.22	24.874	0.082	1525.	10.6	12.497	34.215	5.61	0.23	25.885	0.064	1498.	5.4
28	28.0	20.802	35.501	5.08	0.22	24.931	0.088	1525.	11.1	12.493	34.219	5.61	0.23	25.889	0.069	1498.	3.1
30	29.9	20.482	35.521	5.12	0.22	25.032	0.094	1524.	11.4	12.495	34.223	5.63	0.23	25.891	0.073	1498.	2.5
32	32.0	20.066	35.507	5.19	0.22	25.133	0.100	1523.	11.4	12.498	34.228	5.61	0.23	25.894	0.077	1498.	2.3
34	34.1	19.560	35.448	5.29	0.22	25.220	0.106	1521.	11.2	12.514	34.240	5.59	0.24	25.901	0.082	1498.	2.1
36	36.0	18.836	35.322	5.38	0.21	25.310	0.111	1519.	10.8	12.529	34.247	5.60	0.24	25.903	0.085	1498.	2.0
38	38.0	18.300	35.238	5.45	0.21	25.381	0.116	1518.	10.1	12.533	34.249	5.55	0.24	25.904	0.090	1498.	1.7
40	40.0	18.024	35.206	5.49	0.21	25.425	0.121	1517.	9.9	12.535	34.250	5.59	0.24	25.904	0.094	1498.	1.4
42	42.0	17.756	35.185	5.50	0.22	25.475	0.126	1516.	9.9	12.542	34.255	5.52	0.24	25.907	0.098	1498.	1.2
44	44.0	17.492	35.149	5.52	0.23	25.511	0.131	1515.	10.2	12.546	34.256	5.54	0.25	25.907	0.102	1499.	1.1
46	45.9	17.147	35.110	5.51	0.24	25.565	0.136	1514.	10.4	12.550	34.253	5.50	0.25	25.904	0.107	1499.	1.1
48	48.0	16.695	35.103	5.55	0.21	25.667	0.141	1513.	10.5	12.553	34.260	5.53	0.25	25.908	0.110	1499.	1.0
50	49.9	16.101	35.056	5.59	0.19	25.769	0.145	1511.	10.4	12.554	34.260	5.47	0.25	25.908	0.115	1499.	1.0
52	52.0	15.639	35.029	5.50	0.18	25.853	0.150	1510.	10.2	12.554	34.261	5.51	0.25	25.909	0.119	1499.	0.9
54	54.0	15.361	35.006	5.46	0.18	25.898	0.154	1509.	10.0	12.555	34.262	5.49	0.26	25.909	0.123	1499.	0.9
56	56.0	15.131	34.992	5.39	0.17	25.938	0.158	1508.	9.5	12.556	34.262	5.50	0.25	25.909	0.127	1499.	0.7
58	58.0	14.890	34.971	5.34	0.17	25.974	0.162	1507.	9.0	12.558	34.263	5.48	0.25	25.910	0.132	1499.	0.6
60	60.0	14.536	34.935	5.34	0.17	26.024	0.167	1506.	8.5	12.558	34.263	5.48	0.25	25.910	0.136	1499.	0.6
62	62.0	13.836	34.861	5.37	0.17	26.115	0.170	1504.	8.0	12.560	34.264	5.46	0.25	25.910	0.140	1499.	0.5
64	64.0	13.569	34.843	5.29	0.18	26.156	0.174	1503.	7.5	12.566	34.266	5.46	0.25	25.910	0.144	1499.	0.5
65	66.0	13.332	34.805	5.21	0.18	26.176	0.178	1502.	6.8	12.566	34.265	5.44	0.26	25.910	0.148	1499.	0.4
67	68.0	13.267	34.799	5.16	0.19	26.184	0.182	1502.	5.7	12.567	34.266	5.46	0.25	25.910	0.153	1499.	0.4
69	70.0	13.202	34.788	5.17	0.19	26.188	0.185	1502.	4.1	12.565	34.265	5.44	0.25	25.910	0.157	1499.	0.3
71	71.2	13.196	34.789	5.16	0.19	26.191	0.188	1502.	3.0	12.564	34.265	5.44	0.25	25.910	0.157	1499.	0.3
73	73.1	13.194	34.789	5.13	0.20	26.191	0.191	1502.	2.2	12.566	34.266	5.45	0.25	25.910	0.161	1499.	0.3
75	75.0	13.194	34.791	5.16	0.19	26.192	0.193	1502.	1.1	12.566	34.265	5.47	0.26	25.910	0.163	1499.	0.3
77	77.0	13.196	34.791	5.15	0.19	26.192	0.194	1502.	0.9	12.569	34.266	5.46	0.26	25.910	0.165	1499.	0.5
79	79.0	13.195	34.791	5.11	0.20	26.192	0.196	1502.	0.6	12.569	34.267	5.43	0.26	25.910	0.167	1499.	0.5
81	81.0	13.209	34.793	5.03	0.19	26.191	0.204	1502.	0.9	12.575	34.268	5.40	0.27	25.911	0.174	1499.	0.5
83	83.0	13.212	34.798	4.87	0.19	26.194	0.205	1502.	0.9	12.575	34.268	5.42	0.26	25.911	0.178	1499.	0.5
85	85.0	13.212	34.797	4.87	0.19	26.194	0.207	1502.	0.9	12.574	34.268	5.37	0.25	25.910	0.180	1499.	0.5
87	87.0	13.213	34.797	4.82	0.19	26.193	0.211	1502.	0.9	12.574	34.268	5.28	0.26	25.911	0.182	1499.	0.5
89	89.0	13.210	34.797	4.92	0.19	26.194	0.212	1502.	0.9	12.574	34.268	5.28	0.26	25.911	0.182	1499.	0.5

STA 59 DAY: 14 TIME: 0700

DEPTH (m)	TEMP (°C)	DEPTH (m)	TEMP (°C)	DEPTH (m)	TEMP (°C)
0.0	19.9	11.7	20.8	33.1	16.7
1.0	19.8	11.7	20.8	34.1	16.6
1.0	19.7	12.7	20.8	34.1	16.5
1.9	19.7	13.6	20.7	35.0	16.5
1.9	19.8	13.6	20.7	36.0	16.4
1.9	19.9	14.6	20.6	36.0	16.4
1.9	20.0	14.6	20.6	37.0	16.4
1.9	20.2	15.6	20.5	37.0	16.3
1.9	20.4	15.6	20.5	38.9	16.3
2.9	20.5	15.6	20.5	39.9	16.3
2.9	20.6	16.6	20.4	40.9	16.3
2.9	20.7	17.5	20.4	41.8	16.3
2.9	20.8	17.5	20.3	42.8	16.2
2.9	20.9	18.5	20.3	42.8	16.1
2.9	21.0	18.5	20.2	42.8	15.9
2.9	21.1	19.5	20.1	43.8	15.7
3.9	21.1	19.5	20.1	44.7	15.5
4.9	21.0	19.5	20.1	44.7	15.4
4.9	20.8	20.4	20.0	44.7	15.2
4.9	20.7	21.4	20.0	45.7	15.0
4.9	20.6	21.4	19.9	46.7	14.6
5.8	20.5	21.4	19.8	47.6	14.1
5.8	20.4	21.4	19.7	47.6	14.0
5.8	20.3	22.4	19.7	47.6	13.8
5.8	20.2	22.4	19.6	48.6	13.7
6.8	20.1	23.4	19.5	49.6	13.6
6.8	20.0	23.4	19.4	50.6	13.6
6.8	19.9	24.3	19.3	51.5	13.6
6.8	19.8	24.3	19.3	52.5	13.5
6.8	19.7	24.3	19.2	53.5	13.4
6.8	19.6	24.3	19.1	55.4	13.4
7.8	19.6	25.3	19.0	57.3	13.4
7.8	19.5	25.3	18.8	60.2	13.4
7.8	19.6	25.3	18.7	62.2	13.4
7.8	19.7	25.3	18.6	65.1	13.4
8.8	19.8	27.3	18.4	67.0	13.4
8.8	19.8	28.2	18.3	69.0	13.3
8.8	19.9	28.2	18.2	71.9	13.4
8.8	20.0	29.2	18.0	74.8	13.4
8.8	20.1	29.2	17.9	77.7	13.4
8.8	20.2	29.2	17.8	79.6	13.4
8.8	20.3	30.2	17.6	81.5	13.4
9.7	20.4	30.2	17.5	84.4	13.3
9.7	20.5	31.1	17.4	87.3	13.4
9.7	20.6	31.1	17.2	89.2	13.3
9.7	20.7	32.1	17.1	92.1	13.3
9.7	20.7	32.1	17.0	94.1	13.3
9.7	20.7	33.1	17.0		
10.7	20.7	33.1	16.9		
10.7	20.8	33.1	16.8		

SHIP	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH	STA 61 DAY: 14 TIME: 0757									
OC	122	60	14 JUL 1982	0620	40°30.7'N	68°14.9'W	101	DEPTH	TEMP	DEPTH	TEMP	DEPTH	TEMP	DEPTH	TEMP	DEPTH	TEMP
m	dbar	TEMP °C	SALIN psu	OXY ml/l	ATN m ⁻¹	SIGT gm/cm ³	DYHT 10m ² /s ²	A S SPD m/s	N cph	DEPTH (m)	TEMP (°C)	DEPTH (m)	TEMP (°C)	DEPTH (m)	TEMP (°C)	DEPTH (m)	TEMP (°C)
95	96.0	13.428	35.175	4.68	0.18	26.442	0.209	1503.	3.8	0.0	22.4	30.2	19.3	54.4	16.6	71.9	13.8
96	97.0	13.158	35.147	4.70	0.19	26.476	0.210	1502.	3.8	0.0	22.3	30.2	19.3	54.4	16.6	71.9	13.8
97	98.0	13.154	35.142	4.67	0.20	26.473	0.212	1502.	3.8	1.0	22.3	31.1	19.2	55.4	16.5	73.8	13.7
98	99.0	13.133	35.143	4.64	0.20	26.477	0.213	1502.	3.8	3.9	22.3	33.1	19.1	55.4	16.4	74.8	13.8
99	100.0	13.113	35.140	4.64	0.20	26.479	0.215	1502.	3.8	4.9	22.3	33.1	19.1	56.4	16.3	74.8	13.9
										6.8	22.2	34.1	19.0	56.4	16.3	75.7	13.9
										7.8	22.2	34.1	18.9	56.4	16.2	75.7	14.0
										7.8	22.1	35.0	18.8	57.3	16.1	75.7	14.1
										7.8	22.1	36.0	18.8	57.3	16.0	75.7	14.1
										8.8	22.0	37.0	18.8	57.3	15.9	75.7	14.2
										9.7	21.9	37.9	18.8	57.3	15.8	75.7	14.3
										10.7	21.8	37.9	18.7	57.3	15.8	76.7	14.3
										10.7	21.8	37.9	18.7	58.3	15.7	76.7	14.4
										11.7	21.7	38.9	18.6	58.3	15.6	76.7	14.4
										11.7	21.5	38.9	18.6	58.3	15.6	76.7	14.3
										12.7	21.4	38.9	18.5	59.3	15.6	77.7	14.2
										12.7	21.4	39.9	18.3	59.3	15.5	77.7	14.1
										13.6	21.4	39.9	18.3	60.2	15.4	77.7	14.1
										14.6	21.3	40.9	18.2	60.2	15.2	78.6	14.0
										15.6	21.3	40.9	18.1	61.2	15.0	78.6	14.0
										16.6	21.2	40.9	18.1	61.2	14.9	78.6	13.9
										17.5	21.2	41.8	18.0	61.2	14.8	78.6	13.9
										19.5	21.1	41.8	17.9	62.2	14.7	79.6	13.8
										20.4	21.1	42.8	17.9	62.2	14.6	79.6	13.8
										20.4	21.0	42.8	17.8	62.2	14.6	79.6	13.8
										20.4	20.9	42.8	17.8	63.1	14.5	80.6	13.7
										21.4	20.8	43.8	17.8	63.1	14.4	80.6	13.7
										21.4	20.7	43.8	17.7	63.1	14.4	80.6	13.6
										21.4	20.6	44.7	17.6	64.1	14.4	80.6	13.6
										21.4	20.6	45.7	17.6	65.1	14.5	81.5	13.6
										22.4	20.4	45.7	17.6	65.1	14.6	83.5	13.6
										22.4	20.3	45.7	17.5	65.1	14.7	85.4	13.6
										22.4	20.3	46.7	17.5	65.1	14.8	87.3	13.6
										22.4	20.2	47.6	17.4	65.1	14.7	89.2	13.5
										22.4	20.2	47.6	17.3	66.0	14.7	90.2	13.5
										23.4	20.1	47.6	17.2	66.0	14.6	91.2	13.5
										23.4	20.1	48.6	17.1	66.0	14.6	92.1	13.5
										24.3	20.0	48.6	17.1	67.0	14.6	92.1	13.4
										24.3	19.9	48.6	17.0	68.0	14.5	93.1	13.4
										25.3	19.8	49.6	17.0	68.0	14.5	94.1	13.4
										26.3	19.8	49.6	17.0	68.0	14.4	94.1	13.3
										26.3	19.8	50.6	16.9	68.0	14.3	94.1	13.3
										26.3	19.7	51.5	16.9	68.0	14.2	95.0	13.2
										27.3	19.7	51.5	16.8	69.0	14.1	96.0	13.2
										28.2	19.7	51.5	16.8	69.0	14.0	97.9	13.2
										29.2	19.6	52.5	16.7	69.0	13.9	98.9	13.2
										29.2	19.5	52.5	16.7	69.9	13.9	99.9	13.1
										29.2	19.5	52.5	16.6	69.9	13.9	100.8	13.1
										30.2	19.4	53.5	16.6	70.9	13.8	101.8	13.1

STA 63				DAY: 14				TIME: 0825				SHIP OC	CRUISE 122	STATION 64	DATE			EST 0728	LATITUDE		LONGITUDE		DEPTH 201
DEPTH (m)	TEMP (°C)	TEMP (°C)	DEPTH (m)	TEMP (°C)	DEPTH (m)	TEMP (°C)	DEPTH (m)	TEMP (°C)	DEPTH (m)	TEMP (°C)	DEPTH (m)				TEMP (°C)	TEMP (°C)	SALIN psu		OXY ml/l	ATN m ⁻¹	SIGT gm/cm ³	DYHT A 10m ² /g ²	
1.0	22.1	19.2	72.8	15.4	103.7	13.2	153.7	11.6	153.7	11.6	1	0.9	22.032	35.098	4.97	0.20	24.285	0.000	1527.	11.3			
1.9	22.1	19.2	73.8	15.3	104.7	13.1	155.6	11.6	155.6	11.6	2	1.8	22.012	35.090	5.15	0.20	24.284	0.003	1527.	11.3			
2.9	22.0	19.0	73.8	15.2	106.6	13.1	156.6	11.6	156.6	11.6	4	4.0	21.939	35.082	5.26	0.20	24.298	0.011	1527.	11.3			
3.9	22.0	19.0	74.8	15.1	106.6	13.1	159.4	11.6	159.4	11.6	6	6.0	21.806	35.060	5.28	0.21	24.319	0.018	1527.	11.3			
5.8	22.0	19.0	74.8	15.0	107.6	13.0	161.4	11.6	161.4	11.6	8	8.0	21.481	35.033	5.31	0.22	24.389	0.026	1526.	11.3			
6.8	22.0	18.8	75.7	14.8	108.5	13.0	163.3	11.6	163.3	11.6	10	10.0	21.210	35.060	5.37	0.23	24.484	0.032	1525.	11.7			
7.8	22.0	18.7	75.7	14.7	108.5	13.0	165.2	11.6	165.2	11.6	12	12.0	21.182	35.297	5.39	0.22	24.672	0.039	1525.	11.8			
8.8	21.9	18.6	75.7	14.7	110.5	13.0	167.1	11.6	167.1	11.6	14	14.0	21.125	35.431	5.38	0.21	24.789	0.045	1525.	11.7			
9.7	21.9	18.5	75.7	14.6	111.4	13.0	169.0	11.6	169.0	11.6	16	16.0	20.999	35.458	5.42	0.21	24.844	0.052	1525.	11.3			
10.7	21.8	18.4	78.6	14.6	114.3	12.9	171.9	11.5	171.9	11.5	18	17.9	20.933	35.474	5.45	0.22	24.874	0.058	1525.	10.7			
10.7	21.7	18.3	79.6	14.6	115.3	12.9					20	20.1	20.892	35.494	5.46	0.22	24.901	0.064	1525.	10.1			
11.7	21.5	18.2	80.6	14.5	116.2	12.9					22	21.9	20.643	35.515	5.50	0.22	24.985	0.070	1524.	10.3			
11.7	21.4	18.1	81.5	14.5	117.2	12.8					24	24.1	20.344	35.542	5.53	0.23	25.085	0.076	1523.	10.6			
11.7	21.3	18.0	82.5	14.5	119.1	12.8					26	26.0	20.129	35.551	5.55	0.23	25.149	0.082	1523.	10.7			
11.7	21.3	18.0	82.5	14.4	120.1	12.8					28	28.0	19.910	35.562	5.54	0.23	25.215	0.087	1522.	10.7			
12.7	21.2	17.9	83.5	14.4	121.1	12.7					30	30.0	19.508	35.582	5.65	0.24	25.336	0.093	1521.	10.2			
12.7	21.2	17.8	84.4	14.4	121.1	12.7					32	31.9	19.399	35.582	5.66	0.24	25.364	0.098	1521.	9.7			
14.6	21.2	17.7	85.4	14.5	121.1	12.6					34	34.1	19.220	35.580	5.63	0.24	25.410	0.103	1520.	9.4			
15.6	21.2	17.7	86.4	14.5	122.0	12.5					36	36.0	18.999	35.593	5.69	0.25	25.476	0.108	1520.	9.0			
16.6	21.2	17.6	87.3	14.5	122.0	12.5					38	38.0	18.857	35.595	5.68	0.25	25.514	0.113	1520.	9.4			
16.6	21.1	17.5	87.3	14.4	122.0	12.4					40	40.1	18.684	35.586	5.65	0.25	25.551	0.118	1519.	10.0			
18.5	21.1	17.5	88.3	14.3	123.0	12.3					42	42.0	18.401	35.576	5.60	0.26	25.615	0.123	1518.	10.2			
18.5	21.1	17.5	88.3	14.3	123.0	12.3					44	44.0	18.128	35.536	5.52	0.28	25.652	0.128	1517.	10.3			
19.5	21.1	17.5	89.2	14.2	123.0	12.3					46	46.0	17.431	35.550	5.57	0.28	25.834	0.132	1515.	10.3			
20.4	21.1	17.4	89.2	14.1	123.9	12.1					48	48.1	17.231	35.554	5.54	0.26	25.885	0.137	1515.	10.2			
20.4	21.0	17.3	89.2	14.0	123.9	12.1					50	50.0	17.185	35.552	5.46	0.25	25.895	0.141	1515.	9.6			
23.4	21.0	17.3	89.2	14.0	124.9	12.0					52	52.1	16.880	35.559	5.43	0.23	25.973	0.145	1514.	9.0			
25.3	20.9	17.3	90.2	13.9	124.9	12.0					53	53.9	16.712	35.548	5.37	0.22	26.005	0.149	1513.	8.3			
26.3	20.8	17.3	90.2	13.8	126.8	12.0					56	56.0	16.496	35.549	5.30	0.21	26.056	0.153	1513.	8.5			
26.3	20.7	17.3	90.2	13.8	128.7	11.9					58	58.0	16.377	35.542	5.18	0.20	26.078	0.157	1513.	8.7			
26.3	20.6	17.1	91.2	13.8	129.7	11.9					60	60.1	16.174	35.536	5.09	0.20	26.120	0.161	1512.	8.4			
27.3	20.5	17.1	91.2	13.7	131.6	11.9					61	61.8	15.918	35.551	5.02	0.18	26.191	0.164	1511.	8.1			
28.2	20.4	16.9	91.2	13.7	133.5	11.9					64	64.1	15.692	35.561	4.95	0.16	26.250	0.168	1511.	8.2			
29.2	20.4	16.8	91.2	13.6	133.5	11.9					65	66.0	15.566	35.569	4.90	0.15	26.285	0.171	1510.	8.1			
30.2	20.3	16.6	93.1	13.6	134.5	11.8					68	68.1	15.445	35.554	4.84	0.15	26.301	0.175	1510.	7.8			
30.2	20.3	16.5	93.1	13.6	134.5	11.8					69	70.0	15.173	35.490	4.81	0.14	26.312	0.178	1509.	7.2			
30.2	20.2	16.4	94.1	13.6	134.5	11.7					71	72.0	14.737	35.482	4.85	0.13	26.402	0.182	1508.	6.7			
30.2	20.1	16.3	95.0	13.5	135.5	11.7					73	74.0	14.705	35.494	4.82	0.13	26.418	0.185	1508.	6.3			
31.1	20.0	16.2	95.0	13.5	138.3	11.7					75	76.0	14.620	35.499	4.82	0.13	26.441	0.188	1507.	5.8			
33.1	20.0	16.1	96.0	13.5	139.3	11.7					77	78.1	14.608	35.507	4.81	0.13	26.450	0.191	1507.	5.2			
33.1	20.0	16.0	97.0	13.5	141.2	11.7					79	80.0	14.621	35.520	4.77	0.13	26.456	0.195	1507.	4.8			
34.1	19.9	15.9	97.9	13.5	142.2	11.6					82	82.2	14.641	35.533	4.73	0.13	26.463	0.198	1508.	5.0			
34.1	19.8	15.8	98.9	13.5	144.1	11.6					83	83.9	14.501	35.503	4.70	0.13	26.470	0.201	1507.	5.3			
35.0	19.7	15.7	99.9	13.5	146.0	11.6					85	86.0	14.211	35.453	4.71	0.13	26.493	0.204	1506.	5.5			
35.0	19.6	15.7	100.8	13.4	147.0	11.6					87	87.9	13.995	35.459	4.71	0.13	26.544	0.207	1505.	5.7			
35.0	19.6	15.7	101.8	13.4	148.9	11.6					89	90.1	14.038	35.479	4.66	0.13	26.550	0.210	1506.	5.7			
37.0	19.5	15.6	101.8	13.3	150.8	11.6					91	91.9	13.833	35.479	4.67	0.13	26.577	0.213	1505.	5.5			
37.9	19.4	15.5	102.8	13.2	151.8	11.6					93	94.1	13.725	35.434	4.64	0.14	26.581	0.216	1505.	5.1			
37.9	19.3	15.5	102.8	13.2	152.7	11.6					95	95.9	13.518	35.408	4.65	0.14	26.604	0.219	1504.	4.7			
											97	98.1	13.460	35.400	4.63	0.14	26.610	0.222	1504.	4.6			

SHIP OC	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH			
	122	64	14 JUL 1982	0728	40°29.4'N	68°11.1'W	201			
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	DEPTH cph
99	100.0	13.359	35.393	4.62	0.14	26.626	0.225	1503.	4.3	
101	102.0	13.256	35.387	4.62	0.14	26.642	0.227	1503.	4.2	
103	104.0	13.213	35.383	4.59	0.14	26.647	0.230	1503.	3.9	
105	106.0	13.093	35.367	4.59	0.14	26.659	0.233	1503.	3.7	
107	107.9	13.025	35.356	4.57	0.15	26.664	0.236	1502.	3.5	
109	110.0	12.934	35.343	4.57	0.15	26.673	0.239	1502.	3.7	
111	112.0	12.883	35.334	4.56	0.16	26.676	0.242	1502.	3.9	
113	113.9	12.833	35.325	4.51	0.16	26.679	0.244	1502.	4.9	
115	116.1	12.731	35.318	4.49	0.16	26.694	0.247	1502.	6.1	
117	117.9	12.615	35.323	4.45	0.17	26.721	0.250	1501.	6.9	
119	120.1	12.573	35.315	4.36	0.17	26.723	0.253	1501.	7.5	
121	121.9	12.266	35.352	4.32	0.17	26.812	0.255	1500.	7.7	
123	124.0	12.032	35.380	4.30	0.16	26.879	0.258	1499.	7.7	
125	126.2	11.963	35.387	4.27	0.16	26.898	0.260	1499.	7.4	
127	127.9	11.894	35.399	4.21	0.15	26.920	0.262	1499.	6.8	
129	130.1	11.837	35.421	4.17	0.15	26.948	0.265	1499.	5.6	
131	132.0	11.850	35.440	4.13	0.14	26.961	0.267	1499.	4.6	
133	134.0	11.892	35.470	4.10	0.12	26.976	0.269	1499.	4.0	
135	136.0	11.906	35.479	4.09	0.11	26.980	0.271	1499.	3.3	
137	138.0	11.906	35.481	4.08	0.12	26.981	0.273	1499.	2.5	
139	140.0	11.907	35.481	4.06	0.11	26.981	0.276	1499.	2.1	
141	141.9	11.901	35.481	4.05	0.11	26.983	0.278	1499.	1.8	
143	144.0	11.894	35.482	4.05	0.11	26.985	0.280	1499.	1.9	
145	146.0	11.873	35.479	4.06	0.11	26.986	0.282	1499.	2.0	
147	147.9	11.814	35.470	4.07	0.11	26.991	0.284	1499.	2.0	
149	150.0	11.771	35.466	4.08	0.12	26.995	0.287	1499.	1.9	
151	151.9	11.719	35.455	4.09	0.13	26.997	0.289	1499.	1.8	
153	154.1	11.689	35.450	4.09	0.13	26.999	0.291	1499.	1.4	
155	156.0	11.709	35.452	4.10	0.13	26.997	0.293	1499.	1.5	
157	158.0	11.674	35.448	4.10	0.13	27.000	0.295	1499.	1.5	
159	159.9	11.651	35.443	4.10	0.14	27.000	0.297	1499.	1.7	
161	162.0	11.656	35.437	4.10	0.14	26.995	0.300	1499.	1.8	
163	164.2	11.576	35.434	4.12	0.14	27.008	0.302	1499.	1.8	
165	165.9	11.559	35.431	4.11	0.14	27.009	0.304	1499.	1.7	
167	168.0	11.548	35.431	4.12	0.15	27.010	0.306	1499.	1.6	
169	170.0	11.546	35.431	4.12	0.14	27.011	0.308	1499.	1.7	
171	171.9	11.546	35.431	4.12	0.14	27.011	0.310	1499.	1.5	
173	174.1	11.546	35.431	4.12	0.14	27.011	0.313	1499.	3.0	
175	176.0	11.536	35.429	4.13	0.14	27.011	0.315	1499.	3.6	
177	178.0	11.495	35.426	4.14	0.15	27.016	0.317	1499.	4.0	
179	180.0	11.342	35.397	4.15	0.15	27.022	0.319	1498.	4.4	
180	181.3	11.079	35.408	4.18	0.17	27.079	0.320	1497.	4.6	
181	182.0	11.121	35.402	4.18	0.16	27.067	0.321	1497.	4.7	
181	183.0	11.132	35.397	4.19	0.16	27.061	0.322	1497.	4.6	
182	184.0	11.095	35.397	4.19	0.16	27.068	0.323	1497.	4.7	
183	185.0	11.085	35.385	4.19	0.16	27.060	0.324	1497.	3.9	
184	186.0	10.978	35.381	4.22	0.17	27.077	0.325	1497.	4.5	
185	187.0	10.899	35.369	4.22	0.17	27.082	0.326	1497.	4.9	
186	188.0	10.788	35.381	4.23	0.17	27.111	0.327	1496.	4.7	
187	189.0	10.825	35.373	4.22	0.17	27.098	0.328	1496.	4.6	

SHIP	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH		
OC	122	65	14 JUL 1982	0750	40°29.0'N	68°11.1'W	158		
DEPTH	PRESS	TEMP	SALIN	OXY	ATN	SIGT	DYHT A	S SPD	DEPTH
m	dbar	°C	psu	ml/l	m ⁻¹	gm/cm ³	10m ² /s ²	m/s	cph
1	0.9	21.806	35.002	4.96	0.21	24.275	0.000	1526.	10.6
2	2.1	21.800	35.002	5.16	0.21	24.277	0.004	1526.	10.6
4	4.0	21.729	34.979	5.21	0.21	24.279	0.011	1526.	10.6
6	6.1	21.655	34.957	5.20	0.21	24.283	0.019	1526.	10.6
8	7.9	21.615	34.951	5.16	0.21	24.289	0.026	1526.	10.6
10	10.0	21.269	34.997	5.23	0.22	24.420	0.033	1525.	11.1
12	12.0	21.146	35.266	5.20	0.23	24.658	0.040	1525.	11.4
14	14.0	21.174	35.324	5.14	0.21	24.695	0.046	1525.	11.0
16	16.0	21.152	35.389	5.12	0.21	24.750	0.053	1525.	10.2
18	18.0	21.090	35.429	5.11	0.20	24.798	0.059	1525.	8.9
20	20.0	21.050	35.449	5.14	0.20	24.823	0.065	1525.	8.1
22	22.1	21.048	35.452	5.18	0.21	24.827	0.072	1525.	8.9
24	24.0	20.949	35.476	5.16	0.21	24.872	0.078	1525.	9.6
26	25.9	20.801	35.502	5.17	0.21	24.932	0.084	1525.	10.0
28	28.1	20.524	35.534	5.23	0.22	25.031	0.090	1524.	10.2
30	30.0	20.095	35.551	5.33	0.22	25.158	0.096	1523.	10.3
32	31.9	19.942	35.573	5.30	0.22	25.216	0.101	1522.	10.1
34	34.0	19.878	35.577	5.29	0.22	25.235	0.107	1522.	9.5
36	36.0	19.741	35.576	5.33	0.23	25.271	0.112	1522.	8.7
38	38.0	19.458	35.565	5.40	0.23	25.336	0.117	1521.	8.5
40	39.9	19.207	35.555	5.39	0.24	25.394	0.123	1521.	8.8
42	42.0	19.158	35.574	5.38	0.25	25.421	0.128	1520.	9.1
44	44.1	19.069	35.567	5.41	0.25	25.438	0.133	1520.	9.7
46	45.9	18.518	35.538	5.47	0.26	25.556	0.138	1519.	10.2
48	48.0	18.275	35.525	5.40	0.28	25.607	0.143	1518.	10.7
50	50.0	18.172	35.540	5.37	0.29	25.644	0.148	1518.	11.0
52	52.1	17.553	35.527	5.47	0.30	25.787	0.152	1516.	11.2
53	53.9	17.210	35.529	5.34	0.27	25.871	0.156	1515.	10.9
56	56.0	16.890	35.522	5.22	0.23	25.942	0.161	1514.	11.0
58	58.1	16.634	35.517	5.21	0.22	25.999	0.165	1513.	10.8
60	60.0	16.279	35.505	5.21	0.21	26.072	0.169	1512.	10.1
61	61.9	16.109	35.514	5.10	0.19	26.119	0.172	1512.	9.7
63	64.0	15.723	35.535	5.04	0.18	26.224	0.176	1511.	9.3
66	66.0	15.530	35.531	4.96	0.16	26.264	0.180	1510.	8.8
68	68.0	15.408	35.531	4.90	0.15	26.292	0.183	1510.	8.3
69	69.9	15.230	35.536	4.83	0.15	26.335	0.187	1509.	7.9
71	72.0	15.091	35.537	4.72	0.14	26.367	0.190	1509.	7.3
73	74.1	15.000	35.538	4.72	0.14	26.388	0.193	1509.	7.2
75	76.0	14.769	35.522	4.77	0.13	26.426	0.197	1508.	7.0
77	78.0	14.434	35.486	4.71	0.12	26.471	0.200	1507.	6.6
79	80.0	14.236	35.461	4.66	0.13	26.494	0.203	1506.	6.3
81	82.0	14.194	35.473	4.64	0.13	26.513	0.206	1506.	6.0
83	84.1	14.106	35.473	4.67	0.12	26.531	0.209	1506.	5.6
85	86.0	14.017	35.467	4.65	0.12	26.545	0.212	1505.	5.2
87	88.0	13.804	35.434	4.60	0.12	26.564	0.215	1505.	5.0
89	90.0	13.742	35.434	4.60	0.12	26.578	0.218	1505.	4.8
91	92.1	13.626	35.426	4.62	0.13	26.595	0.221	1504.	4.5
93	94.0	13.505	35.406	4.66	0.13	26.605	0.224	1504.	4.2
95	95.9	13.351	35.382	4.61	0.13	26.618	0.227	1503.	3.7
97	98.0	13.283	35.376	4.54	0.14	26.627	0.230	1503.	3.3

SHIP	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH
OC	122	67	14 JUL 1982	0850	40°31.0'N	68°11.1'W	110
DEPTH	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH
m	122	67	14 JUL 1982	0850	40°31.0'N	68°11.1'W	110
DEPTH	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH
m	122	67	14 JUL 1982	0850	40°31.0'N	68°11.1'W	110
DEPTH	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH
m	122	67	14 JUL 1982	0850	40°31.0'N	68°11.1'W	110
DEPTH	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH
m	122	67	14 JUL 1982	0850	40°31.0'N	68°11.1'W	110
DEPTH	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH
m	122	67	14 JUL 1982	0850	40°31.0'N	68°11.1'W	110
DEPTH	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH
m	122	67	14 JUL 1982	0850	40°31.0'N	68°11.1'W	110
DEPTH	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH
m	122	67	14 JUL 1982	0850	40°31.0'N	68°11.1'W	110
DEPTH	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH
m	122	67	14 JUL 1982	0850	40°31.0'N	68°11.1'W	110
DEPTH	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH
m	122	67	14 JUL 1982	0850	40°31.0'N	68°11.1'W	110
DEPTH	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH
m	122	67	14 JUL 1982	0850	40°31.0'N	68°11.1'W	110
DEPTH	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH
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m	122	67	14 JUL 1982	0850	40°31.0'N	68°11.1'W	110
DEPTH							

SHIP	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH
OC	122	67	14 JUL 1982	0850	40°31.0'N	68°11.1'W	110
DEPTH	PRESS	TEMP	SALIN	OXY	ATN	DYHT A	S SPD
m	dbar	°C	psu	ml/l	m ⁻¹	10m ² /s ²	m/s
95	96.0	13.303	35.006	4.90	0.18	26.337	0.221
96	97.0	13.305	35.018	4.89	0.18	26.346	0.222
97	97.9	13.308	35.035	4.88	0.17	26.359	0.224
98	98.9	13.312	35.056	4.90	0.17	26.374	0.226
99	100.0	13.314	35.065	4.89	0.17	26.380	0.227
100	101.0	13.314	35.068	4.82	0.17	26.383	0.229
101	102.0	13.315	35.071	4.78	0.18	26.385	0.231
102	103.0	13.315	35.077	4.80	0.18	26.389	0.232
103	104.0	13.314	35.088	4.79	0.18	26.398	0.234
104	105.0	13.312	35.106	4.82	0.17	26.413	0.236
105	106.0	13.312	35.108	4.82	0.17	26.414	0.237
106	107.1	13.311	35.113	4.78	0.18	26.418	0.239
107	107.9	13.312	35.117	4.63	0.17	26.421	0.241
108	108.6	13.313	35.113	4.64	0.18	26.418	0.242
SHIP	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH
OC	122	68	14 JUL 1982	0916	40°28.3'N	68°09.0'W	380
DEPTH	PRESS	TEMP	SALIN	OXY	ATN	DYHT A	S SPD
m	dbar	°C	psu	ml/l	m ⁻¹	10m ² /s ²	m/s
3	2.7	21.513	34.757	5.17	0.22	24.170	0.000
4	3.9	21.465	34.745	5.23	0.22	24.174	0.005
6	6.1	21.439	34.763	5.18	0.23	24.195	0.013
8	8.0	21.108	34.776	5.22	0.25	24.296	0.020
10	10.1	20.543	35.018	5.28	0.26	24.632	0.027
12	11.9	20.457	35.233	5.31	0.26	24.819	0.033
14	14.1	20.425	35.399	5.33	0.27	24.954	0.039
16	15.9	20.301	35.436	5.37	0.27	25.016	0.045
18	18.0	20.134	35.436	5.38	0.28	25.060	0.051
20	20.0	20.008	35.453	5.42	0.27	25.106	0.057
22	22.0	19.833	35.457	5.44	0.28	25.156	0.062
24	24.0	19.779	35.462	5.43	0.29	25.174	0.068
26	26.1	19.710	35.454	5.46	0.29	25.186	0.074
28	28.1	19.385	35.399	5.53	0.31	25.229	0.079
30	29.9	18.974	35.363	5.59	0.33	25.306	0.084
32	32.0	18.785	35.388	5.61	0.34	25.374	0.090
34	34.0	18.771	35.418	5.63	0.33	25.400	0.095
36	36.0	18.663	35.446	5.64	0.33	25.449	0.100
38	38.0	18.378	35.438	5.65	0.34	25.514	0.105
40	40.0	17.994	35.394	5.68	0.36	25.577	0.110
42	42.0	17.558	35.366	5.76	0.38	25.662	0.115
44	44.0	17.399	35.367	5.76	0.35	25.701	0.119
46	46.0	17.344	35.362	5.71	0.33	25.711	0.124
48	48.0	17.298	35.367	5.62	0.33	25.725	0.128
50	50.1	17.210	35.369	5.61	0.31	25.748	0.133
52	52.0	17.100	35.388	5.61	0.30	25.789	0.137
54	54.0	17.107	35.417	5.53	0.29	25.810	0.142
56	56.0	16.947	35.475	5.47	0.26	25.892	0.146
58	58.0	16.798	35.533	5.39	0.22	25.973	0.150
60	60.0	16.722	35.546	5.24	0.21	26.000	0.154
62	62.0	16.592	35.554	5.12	0.20	26.037	0.158
64	64.1	16.388	35.570	5.05	0.18	26.097	0.162
65	65.9	16.194	35.572	4.96	0.18	26.144	0.166
67	68.0	15.856	35.578	4.89	0.16	26.227	0.170
70	70.1	15.457	35.576	4.88	0.14	26.315	0.173
71	72.0	15.146	35.560	4.79	0.13	26.372	0.177
73	74.0	15.036	35.564	4.71	0.13	26.400	0.180
75	76.0	14.847	35.573	4.72	0.12	26.448	0.183
77	78.0	14.785	35.574	4.68	0.12	26.462	0.186
79	80.0	14.709	35.561	4.70	0.11	26.469	0.190
81	81.9	14.497	35.514	4.69	0.11	26.479	0.193
83	84.1	14.449	35.529	4.69	0.11	26.501	0.196
85	85.9	14.407	35.530	4.70	0.11	26.511	0.199
87	88.1	14.439	35.550	4.67	0.11	26.520	0.202
89	90.0	14.506	35.574	4.64	0.11	26.523	0.205
91	92.0	14.514	35.578	4.62	0.11	26.525	0.208
93	94.0	14.229	35.526	4.64	0.11	26.546	0.211
95	96.0	13.939	35.483	4.67	0.11	26.574	0.214
97	97.9	13.584	35.424	4.70	0.12	26.603	0.217
99	100.0	13.298	35.371	4.66	0.13	26.621	0.220

SHIP	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH	STA	DAY:	TIME:		
OC	122	68	14 JUL 1982	0916	40°28.3'N	68°09.0'W	380	69	14	1041		
DEPTH	PRESS	TEMP	SALIN	OXY	ATN	SIGT	DYHT	TEMP	DEPTH	TEMP	DEPTH	TEMP
m	dbar	°C	psu	ml/l	m ⁻¹	gm/cm ³	10m ² /s ²	(°C)	(m)	(°C)	(m)	(°C)
299	302.0	7.177	35.107	4.84	0.18	27.479	0.431	18.5	30.2	18.5	65.1	16.0
301	304.0	7.143	35.105	4.84	0.18	27.481	0.432	18.4	30.2	18.4	66.0	16.0
303	306.0	7.047	35.094	4.85	0.19	27.486	0.434	18.4	31.1	18.3	67.0	15.9
306	308.2	6.999	35.097	4.86	0.21	27.495	0.435	18.4	32.1	18.2	68.0	15.9
307	309.9	6.992	35.097	4.88	0.21	27.497	0.436	18.4	33.1	18.2	69.9	15.8
309	311.3	6.989	35.098	4.86	0.19	27.498	0.437	18.4	33.1	18.1	70.9	15.8
309	312.0	6.988	35.097	4.86	0.19	27.497	0.437	18.4	33.1	18.1	70.9	15.7
310	313.0	6.984	35.097	4.87	0.18	27.498	0.438	18.4	34.1	18.1	70.9	15.6
311	314.0	6.972	35.095	4.86	0.18	27.498	0.439	18.4	34.1	18.0	71.9	15.5
312	315.0	6.964	35.095	4.85	0.18	27.499	0.439	18.4	34.1	18.0	71.9	15.4
313	316.0	6.927	35.090	4.89	0.18	27.500	0.440	18.4	35.0	17.9	71.9	15.3
314	317.0	6.907	35.088	4.89	0.18	27.501	0.440	18.4	35.0	17.8	72.8	15.1
315	318.0	6.833	35.080	4.87	0.18	27.505	0.441	18.3	35.0	17.7	72.8	15.0
316	319.0	6.780	35.077	4.90	0.18	27.510	0.442	18.3	36.0	17.6	73.8	14.9
317	320.0	6.748	35.078	4.92	0.18	27.515	0.442	18.3	36.0	17.7	72.8	14.9
318	321.0	6.704	35.073	4.94	0.18	27.518	0.443	18.3	37.0	17.5	74.8	14.8
319	322.0	6.686	35.075	4.91	0.19	27.522	0.444	18.3	37.9	17.4	75.7	14.8
320	323.0	6.660	35.074	4.91	0.19	27.524	0.444	18.3	38.9	17.3	75.7	14.7
321	324.0	6.641	35.073	4.91	0.19	27.526	0.445	18.3	38.9	17.3	75.7	14.6
322	325.0	6.624	35.072	4.94	0.18	27.527	0.445	18.3	39.9	17.3	77.7	14.6
323	326.0	6.575	35.065	4.99	0.18	27.529	0.446	18.2	40.9	17.2	78.6	14.5
324	327.0	6.558	35.067	4.98	0.18	27.532	0.447	18.2	41.8	17.1	80.6	14.5
325	328.0	6.527	35.062	4.98	0.18	27.533	0.447	18.2	43.8	17.0	80.6	14.3
326	329.0	6.510	35.062	4.96	0.18	27.535	0.448	18.2	44.7	16.9	81.5	14.3
327	330.0	6.483	35.060	5.00	0.18	27.537	0.448	18.2	45.7	16.9	81.5	14.2
									47.6	16.9	82.5	14.1
									48.6	16.8	83.5	14.1
									49.6	16.8	84.4	14.0
									50.6	16.8	85.4	14.0
									51.5	16.7	87.3	14.0
									52.5	16.7	88.3	13.9
									52.5	16.6	89.2	13.9
									52.5	16.5	90.2	13.9
									53.5	16.5	91.2	13.7
									53.5	16.4	91.2	13.6
									54.4	16.3	91.2	13.6
									55.4	16.2	92.1	13.5
									56.4	16.2	92.1	13.4
									57.3	16.1	92.1	13.3
									58.3	16.1	92.1	13.2
									60.2	16.0	93.1	13.2
									61.2	16.0	94.1	13.1
									62.2	16.0	95.0	13.0
									63.1	16.0	97.0	13.0
									64.1	16.1	97.9	13.0
									64.1	16.1	98.9	12.9
									65.1	16.1	98.9	12.8

SHIP	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH				
OC	122	71	14 JUL 1982	1014	40°25.0'N	68°10.1'W	150				
DEPTH	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH				
m	dbar	TEMP	SALIN	OXY	ATN	SIGT	DYHT A	S	SPD	N	DEPTH
		°C	psu	ml/l	m ⁻¹	gm/cm ³	10m ² /s ²	m/s	m/s	cph	
2	2.2	21.849	34.955	5.24	0.22	24.227	0.000	1526.	11.8	1526.	11.8
4	4.0	21.770	34.956	5.24	0.23	24.250	0.007	1526.	11.8	1526.	11.8
6	6.0	21.614	34.952	5.27	0.23	24.290	0.014	1526.	11.8	1526.	11.8
8	8.1	21.205	34.930	5.34	0.24	24.386	0.071	1525.	11.8	1525.	11.8
10	9.9	20.846	34.952	5.42	0.26	24.501	0.028	1524.	11.8	1524.	11.8
12	12.0	20.765	35.025	5.40	0.27	24.578	0.035	1524.	12.2	1524.	12.2
14	14.0	20.778	35.110	5.44	0.27	24.639	0.041	1524.	12.2	1524.	12.2
16	16.0	20.621	35.292	5.44	0.28	24.820	0.048	1524.	11.9	1524.	11.9
18	17.9	20.520	35.336	5.47	0.28	24.881	0.054	1524.	11.2	1524.	11.2
20	20.0	20.331	35.362	5.49	0.29	24.952	0.060	1523.	10.5	1523.	10.5
22	22.0	20.155	35.393	5.54	0.30	25.021	0.066	1523.	9.7	1523.	9.7
24	24.0	19.903	35.386	5.61	0.31	25.083	0.072	1522.	9.4	1522.	9.4
26	26.0	19.818	35.378	5.62	0.32	25.100	0.078	1522.	9.9	1522.	9.9
28	28.0	19.767	35.378	5.67	0.32	25.112	0.083	1522.	10.6	1522.	10.6
30	29.9	19.512	35.357	5.74	0.33	25.163	0.089	1521.	11.1	1521.	11.1
32	32.1	18.585	35.290	5.83	0.35	25.349	0.095	1518.	11.4	1518.	11.4
34	34.0	18.091	35.244	5.93	0.36	25.437	0.100	1517.	11.6	1517.	11.6
36	35.9	17.667	35.253	5.94	0.35	25.548	0.104	1516.	11.6	1516.	11.6
38	38.1	17.485	35.276	5.90	0.34	25.611	0.110	1515.	11.1	1515.	11.1
40	40.0	17.447	35.299	5.85	0.34	25.638	0.114	1515.	10.3	1515.	10.3
42	42.0	17.254	35.323	5.80	0.35	25.703	0.119	1515.	10.1	1515.	10.1
44	44.0	16.974	35.353	5.74	0.34	25.793	0.123	1514.	9.8	1514.	9.8
46	46.0	16.844	35.367	5.64	0.32	25.834	0.128	1514.	9.7	1514.	9.7
48	48.0	16.639	35.414	5.56	0.28	25.919	0.132	1513.	9.5	1513.	9.5
50	50.1	16.470	35.443	5.51	0.26	25.980	0.136	1513.	9.1	1513.	9.1
51	51.9	16.302	35.431	5.44	0.24	26.010	0.140	1512.	8.7	1512.	8.7
54	54.1	16.095	35.429	5.35	0.23	26.057	0.144	1511.	8.5	1511.	8.5
56	56.0	15.994	35.435	5.24	0.22	26.085	0.148	1511.	8.2	1511.	8.2
58	58.0	15.867	35.464	5.11	0.20	26.136	0.152	1511.	8.0	1511.	8.0
60	60.1	15.796	35.493	5.00	0.19	26.174	0.156	1511.	8.0	1511.	8.0
62	62.0	15.699	35.533	4.92	0.18	26.228	0.159	1510.	7.9	1510.	7.9
63	64.0	15.483	35.526	4.89	0.17	26.271	0.163	1510.	7.7	1510.	7.7
65	66.0	15.312	35.494	4.84	0.16	26.285	0.166	1509.	7.4	1509.	7.4
67	68.0	14.972	35.466	4.82	0.16	26.338	0.170	1508.	7.1	1508.	7.1
70	70.1	14.689	35.415	4.81	0.15	26.361	0.173	1507.	6.6	1507.	6.6
71	71.9	14.440	35.377	4.80	0.15	26.386	0.176	1507.	6.2	1507.	6.2
74	74.1	14.101	35.321	4.82	0.14	26.414	0.180	1505.	6.1	1505.	6.1
75	75.9	13.966	35.302	4.79	0.14	26.429	0.183	1505.	5.8	1505.	5.8
77	78.0	13.837	35.282	4.78	0.14	26.440	0.186	1505.	5.8	1505.	5.8
79	80.0	13.562	35.223	4.76	0.14	26.451	0.189	1504.	5.7	1504.	5.7
81	82.0	13.059	35.145	4.79	0.14	26.494	0.192	1502.	5.7	1502.	5.7
83	84.0	12.838	35.118	4.79	0.14	26.517	0.196	1501.	5.7	1501.	5.7
85	86.0	12.709	35.104	4.78	0.14	26.532	0.198	1501.	5.5	1501.	5.5
87	88.1	12.643	35.102	4.78	0.14	26.543	0.202	1501.	5.2	1501.	5.2
89	90.0	12.621	35.128	4.75	0.14	26.568	0.204	1501.	4.5	1501.	4.5
91	92.0	12.644	35.151	4.73	0.14	26.582	0.207	1501.	4.1	1501.	4.1
93	94.1	12.655	35.161	4.75	0.14	26.587	0.211	1501.	3.7	1501.	3.7
95	95.9	12.663	35.168	4.74	0.14	26.591	0.213	1501.	3.5	1501.	3.5
97	98.1	12.669	35.176	4.73	0.14	26.596	0.216	1501.	3.6	1501.	3.6
99	100.0	12.672	35.182	4.72	0.14	26.600	0.219	1501.	3.9	1501.	3.9

SHIP	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH	STA	73	DAY:	14	TIME: 1150	DEPTH	TEMP	DEPTH	TEMP	DEPTH	TEMP
OC	122	72	14 JUL 1982	1033	40°25.0'N	66°09.0'W	235											
DEPTH	PRESS	TEMP	SALIN	OXY	ATN	SIGT	DYHT A	S SPD	DEPTH	TEMP	DEPTH	TEMP	DEPTH	TEMP	DEPTH	TEMP	DEPTH	TEMP
m	dbar	°C	psu	ml/l	m ⁻¹	gm/cm ³	10m ² /s ²	m/s	(m)	(°C)	(m)	(°C)	(m)	(°C)	(m)	(°C)	(m)	(°C)
198	200.0	11.546	35.452	3.87	0.11	27.027	0.345	1499.	0.0	21.0	36.0	18.3	62.2	15.1	95.0	13.3	157.5	12.2
200	202.0	11.520	35.449	3.85	0.11	27.030	0.347	1499.	1.0	21.9	37.0	18.2	63.1	15.1	96.0	13.2	159.4	12.2
202	203.9	11.495	35.447	3.86	0.11	27.033	0.349	1499.	1.0	21.8	37.0	18.2	64.1	14.9	97.0	13.2	160.4	12.2
204	206.0	11.490	35.448	3.85	0.11	27.034	0.351	1499.	1.0	21.7	37.9	18.1	64.1	14.8	97.9	13.2	160.4	12.2
206	208.0	11.435	35.442	3.86	0.11	27.040	0.354	1499.	1.9	21.5	38.9	18.1	65.1	14.7	97.9	13.1	162.3	12.3
208	210.0	11.422	35.442	3.85	0.11	27.042	0.356	1499.	1.9	21.5	38.9	18.0	65.1	14.6	98.9	13.1	164.2	12.3
210	211.9	11.430	35.443	3.83	0.11	27.040	0.358	1499.	3.9	21.4	39.9	17.9	65.1	14.5	99.9	13.1	167.1	12.3
212	214.0	11.449	35.445	3.83	0.11	27.040	0.360	1499.	5.8	21.4	39.9	17.9	66.0	14.5	100.8	13.1	168.1	12.2
214	216.1	11.450	35.445	3.83	0.11	27.040	0.362	1499.	6.8	21.4	39.9	17.9	66.0	14.4	101.8	13.1	169.0	12.2
216	217.9	11.450	35.445	3.86	0.11	27.040	0.364	1499.	7.8	21.3	40.9	17.8	67.0	14.3	102.8	13.0	170.0	12.1
218	220.0	11.418	35.440	3.84	0.11	27.042	0.366	1499.	8.8	21.2	41.8	17.8	67.0	14.2	102.8	13.0	171.9	12.1
219	221.2	11.415	35.441	3.82	0.11	27.043	0.368	1499.	9.7	21.2	42.8	17.7	68.0	14.1	103.7	13.0	173.8	12.1
220	222.0	11.411	35.441	3.80	0.11	27.044	0.368	1499.	10.7	21.1	42.8	17.7	68.0	14.0	104.7	13.0	175.7	12.0
221	223.0	11.414	35.441	3.82	0.11	27.044	0.370	1499.	11.7	21.1	43.8	17.6	68.0	13.9	105.6	13.0	176.7	12.0
222	224.0	11.402	35.440	3.84	0.11	27.045	0.371	1499.	13.6	21.0	43.8	17.6	68.0	13.8	106.6	13.0	178.6	12.0
223	225.0	11.387	35.438	3.86	0.11	27.046	0.372	1499.	13.6	21.0	43.8	17.5	68.0	13.7	107.6	13.0	181.5	12.0
224	226.0	11.356	35.436	3.85	0.11	27.046	0.373	1499.	14.6	21.0	44.7	17.5	69.0	13.6	108.5	13.0	183.4	11.9
225	227.0	11.356	35.436	3.85	0.11	27.049	0.375	1499.	15.6	20.9	45.7	17.4	69.0	13.5	110.5	13.0	185.3	11.9
226	228.0	11.362	35.436	3.88	0.11	27.051	0.376	1499.	16.6	20.8	45.7	17.4	69.0	13.5	110.5	13.0	187.2	11.9
227	229.0	11.326	35.429	3.88	0.11	27.051	0.377	1499.	17.5	20.8	46.7	17.3	70.9	13.4	111.4	13.0	189.1	11.9
228	230.0	11.344	35.434	3.87	0.12	27.051	0.377	1499.	18.5	20.7	46.7	17.3	70.9	13.3	113.4	12.9	191.0	11.9
229	231.0	11.324	35.431	3.88	0.11	27.052	0.378	1499.	18.5	20.6	46.7	17.2	71.9	13.1	114.3	13.0	192.9	11.8
230	232.0	11.309	35.430	3.86	0.12	27.054	0.379	1499.	19.5	20.5	47.6	17.2	71.9	13.1	116.2	13.0	194.8	11.8
231	233.1	11.293	35.424	3.87	0.12	27.053	0.380	1499.	20.4	20.4	48.6	17.1	72.8	13.0	117.2	13.0	196.7	11.9
232	233.5	11.266	35.423	3.80	0.11	27.057	0.381	1499.	20.4	20.2	48.6	17.0	72.8	13.0	119.1	13.0	198.6	11.9
									21.4	20.1	50.6	16.9	74.8	12.9	123.0	13.0	201.5	11.9
									21.4	20.0	50.6	16.8	75.7	12.8	124.9	13.0	203.4	11.8
									21.4	19.9	50.6	16.7	76.7	12.8	126.8	13.0	205.3	11.8
									22.4	19.8	51.5	16.6	78.6	12.8	128.7	12.9	207.2	11.8
									23.4	19.8	51.5	16.6	79.6	12.9	130.7	12.9	208.2	11.8
									24.3	19.7	52.5	16.5	79.6	12.9	131.6	12.9	209.1	11.8
									25.3	19.5	52.5	16.5	79.6	12.9	132.6	12.9	210.1	11.7
									25.3	19.4	53.5	16.4	80.6	13.0	133.5	12.8	211.0	11.6
									26.3	19.4	53.5	16.3	81.5	13.0	135.5	12.8	212.9	11.6
									26.3	19.3	54.4	16.2	82.5	12.9	135.5	12.7	214.8	11.6
									27.3	19.3	54.4	16.2	83.5	12.9	137.4	12.7	215.8	11.6
									27.3	19.2	55.4	16.1	84.4	12.9	138.3	12.6	216.7	11.5
									27.3	19.1	55.4	16.0	85.4	12.9	139.3	12.5	216.7	11.5
									28.2	19.0	56.4	15.9	86.4	12.9	140.3	12.5	219.6	11.5
									28.2	18.9	56.4	15.8	87.3	12.9	142.2	12.4	221.5	11.4
									29.2	18.7	56.4	15.7	88.3	13.0	144.1	12.4	223.4	11.4
									29.2	18.7	57.3	15.6	89.2	13.0	146.0	12.4	223.4	11.4
									30.2	18.6	57.3	15.5	91.2	13.0	147.0	12.3	224.4	11.3
									30.2	18.6	59.3	15.5	92.1	13.0	147.9	12.3	226.3	11.3
									31.1	18.5	59.3	15.4	92.1	13.0	149.9	12.3	227.2	11.3
									33.1	18.5	60.2	15.4	93.1	13.1	150.8	12.3	228.2	11.2
									33.1	18.5	61.2	15.3	94.1	13.1	152.7	12.2	229.1	11.2
									35.0	18.5	61.2	15.3	94.1	13.2	153.7	12.2	231.0	11.2
									36.0	18.4	62.2	15.2	95.0	13.3	155.6	12.2	232.9	11.2

STA 73 DAY: 14 TIME: 1150

DEPTH (m)	TEMP (°C)	DEPTH (m)	TEMP (°C)	DEPTH (m)	TEMP (°C)
233.9	11.2	302.9	9.5	362.1	6.7
234.8	11.1	302.9	9.4	363.0	6.6
236.7	11.1	302.9	9.2	364.0	6.6
237.7	11.1	303.9	9.1	366.8	6.6
239.6	11.1	303.9	9.1	369.6	6.6
240.5	11.1	303.9	9.0	371.5	6.6
242.4	11.1	305.8	9.0	374.3	6.6
242.4	11.0	307.6	9.0	375.2	6.6
243.4	11.0	309.5	9.0	378.0	6.5
245.2	11.0	312.4	9.0	380.8	6.5
246.2	11.0	314.2	9.0	383.6	6.5
248.1	11.0	315.2	9.0	387.3	6.5
250.0	11.0	316.1	8.9	391.1	6.5
250.9	11.0	317.1	8.9	393.9	6.5
251.9	11.0	318.0	8.8	396.7	6.5
253.8	11.0	318.9	8.7	398.5	6.5
255.7	10.9	319.9	8.7	400.4	6.5
255.7	10.8	320.8	8.6	403.2	6.5
257.6	10.8	321.8	8.6	405.1	6.5
258.5	10.8	322.7	8.5	408.8	6.5
260.4	10.8	324.6	8.5	411.6	6.5
262.3	10.8	325.5	8.5	413.4	6.4
265.1	10.8	328.3	8.5	415.3	6.4
268.9	10.8	329.3	8.4	416.2	6.4
270.8	10.8	330.2	8.4	418.1	6.4
272.7	10.8	330.2	8.3	419.0	6.4
274.6	10.8	332.1	8.2	420.9	6.3
277.4	10.7	334.0	8.2		
278.4	10.7	334.9	8.1		
280.3	10.7	335.9	8.1		
282.2	10.6	336.8	8.0		
283.1	10.6	338.7	8.0		
284.1	10.6	339.6	7.9		
285.0	10.5	340.5	7.9		
285.9	10.4	342.4	7.9		
287.8	10.4	343.4	7.8		
288.8	10.4	343.4	7.7		
290.7	10.3	344.3	7.6		
290.7	10.3	345.2	7.5		
292.6	10.3	345.2	7.5		
295.4	10.3	346.2	7.4		
297.3	10.2	347.1	7.3		
298.2	10.1	348.1	7.3		
298.2	10.0	349.0	7.0		
299.2	10.0	349.9	6.9		
300.1	9.9	351.8	6.8		
301.0	9.8	353.7	6.7		
302.0	9.8	355.5	6.7		
302.0	9.7	359.3	6.7		

SHIP OC	DEPTH m	CRUISE 122	STATION 74	DATE 14 JUL 1982	EST 1054	LATITUDE 40°25.0'N	LONGITUDE 68°07.8'W	DEPTH 520
	2	2.3	21.076	34.718	0.32	24.260	0.000	1524.
	4	4.0	21.281	34.860	0.32	24.312	0.006	1525.
	6	6.0	21.297	34.902	0.32	24.340	0.013	1525.
	8	8.0	21.180	34.923	0.31	24.387	0.021	1525.
	10	9.8	20.924	34.887	0.32	24.430	0.027	1524.
	12	12.0	20.631	34.853	0.33	24.483	0.034	1523.
	14	14.0	20.279	34.800	0.34	24.536	0.041	1522.
	16	16.0	19.650	34.790	0.36	24.695	0.048	1521.
	18	18.0	19.533	34.947	0.36	24.845	0.054	1520.
	20	20.0	19.436	35.092	0.37	24.980	0.060	1520.
	22	21.9	19.321	35.153	0.36	25.057	0.066	1520.
	24	24.0	19.190	35.226	0.35	25.146	0.072	1520.
	26	26.0	19.025	35.283	0.35	25.232	0.077	1519.
	28	27.9	18.957	35.298	0.35	25.261	0.083	1519.
	30	30.0	18.946	35.323	0.35	25.283	0.088	1519.
	32	32.1	18.884	35.336	0.35	25.309	0.094	1519.
	34	33.9	18.646	35.351	0.36	25.381	0.099	1519.
	36	36.0	18.443	35.392	0.35	25.463	0.104	1518.
	38	38.2	18.031	35.404	0.35	25.575	0.109	1517.
	40	39.9	17.802	35.426	0.36	25.648	0.113	1516.
	42	42.0	17.349	35.420	0.37	25.754	0.118	1515.
	44	43.9	17.168	35.405	0.37	25.786	0.123	1515.
	46	46.0	17.072	35.400	0.37	25.805	0.127	1514.
	48	48.1	16.872	35.389	0.36	25.844	0.132	1514.
	50	49.9	16.746	35.412	0.33	25.892	0.136	1513.
	52	52.0	16.558	35.446	0.29	25.963	0.140	1513.
	54	54.0	16.204	35.465	0.25	26.059	0.144	1512.
	56	56.0	15.815	35.506	0.21	26.180	0.148	1511.
	58	58.0	15.274	35.464	0.19	26.270	0.151	1509.
	60	60.0	14.740	35.393	0.18	26.333	0.155	1507.
	61	62.0	14.513	35.361	0.18	26.357	0.158	1507.
	64	64.1	14.167	35.335	0.18	26.411	0.162	1505.
	65	66.0	13.985	35.300	0.18	26.423	0.165	1505.
	68	68.1	13.516	35.228	0.18	26.465	0.168	1503.
	69	69.9	13.193	35.174	0.18	26.489	0.171	1502.
	71	72.0	13.205	35.178	0.17	26.490	0.174	1502.
	73	74.0	13.081	35.171	0.17	26.510	0.177	1502.
	75	76.0	12.901	35.159	0.16	26.537	0.180	1501.
	77	78.0	12.817	35.169	0.16	26.561	0.183	1501.
	79	79.9	12.827	35.185	0.16	26.572	0.186	1501.
	81	82.1	12.858	35.231	0.15	26.601	0.189	1501.
	83	84.0	12.928	35.279	0.15	26.624	0.192	1502.
	85	86.0	12.936	35.288	0.15	26.630	0.195	1502.
	87	88.0	12.960	35.302	0.15	26.635	0.198	1502.
	89	90.0	13.021	35.336	0.14	26.649	0.200	1502.
	91	92.0	13.063	35.357	0.14	26.658	0.203	1502.
	93	94.0	13.120	35.381	0.14	26.665	0.206	1503.
	95	96.0	13.139	35.390	0.14	26.667	0.209	1503.
	97	98.1	13.135	35.398	0.14	26.675	0.212	1503.
	99	100.0	13.125	35.405	0.14	26.682	0.214	1503.

STA 75				DAY: 14				TIME: 1151				STA 75				DAY: 14				TIME: 1151			
DEPTH (m)	TEMP (°C)	DEPTH (m)	TEMP (°C)	DEPTH (m)	TEMP (°C)	DEPTH (m)	TEMP (°C)	DEPTH (m)	TEMP (°C)	DEPTH (m)	TEMP (°C)	DEPTH (m)	TEMP (°C)	DEPTH (m)	TEMP (°C)	DEPTH (m)	TEMP (°C)	DEPTH (m)	TEMP (°C)	DEPTH (m)	TEMP (°C)	DEPTH (m)	TEMP (°C)
0.0	21.4	34.1	18.6	63.1	14.6	109.5	12.7	200.5	11.7	268.9	10.5	330.2	7.5	419.0	6.1								
1.0	21.2	35.0	18.5	63.1	14.5	110.5	12.7	203.4	11.7	269.9	10.4	332.1	7.5	420.9	6.1								
1.0	21.1	35.0	18.4	63.1	14.4	112.4	12.7	205.3	11.7	272.7	10.4	332.1	7.5	421.8	6.1								
1.9	21.1	36.0	18.2	64.1	14.3	114.3	12.7	206.3	11.7	274.6	10.4	334.0	7.4	422.7	6.0								
2.9	21.0	37.0	18.2	65.1	14.2	116.2	12.7	207.2	11.6	275.6	10.3	336.8	7.4	424.6	5.9								
2.9	21.0	37.9	18.2	65.1	14.1	116.2	12.7	207.2	11.6	277.4	10.3	339.6	7.4	427.4	5.9								
2.9	20.9	39.9	18.2	66.0	14.1	118.2	12.6	210.1	11.6	278.4	10.2	342.4	7.4	431.1	5.9								
3.9	20.9	40.9	18.1	67.0	14.1	120.1	12.6	212.9	11.6	279.3	10.2	343.4	7.4	434.8	5.9								
4.9	20.9	40.9	18.1	68.0	14.0	122.0	12.5	212.9	11.5	280.3	10.1	346.2	7.4	436.7	5.9								
5.8	20.9	41.8	18.0	69.0	14.0	123.9	12.5	214.8	11.5	282.2	10.1	349.0	7.3	440.4	5.9								
6.8	20.9	42.8	17.9	69.0	13.9	124.9	12.5	216.7	11.5	284.1	10.1	350.9	7.4	444.1	5.9								
7.8	20.8	42.8	17.8	69.9	13.9	126.8	12.4	218.6	11.5	286.9	10.1	352.7	7.3	447.8	5.9								
8.8	20.8	42.8	17.7	70.9	13.9	128.7	12.4	219.6	11.5	287.8	10.1	353.7	7.3	450.6	5.9								
8.8	20.7	43.8	17.6	72.8	13.9	129.7	12.4	220.5	11.4	290.7	10.1	356.5	7.3										
9.7	20.6	44.7	17.5	75.7	13.9	132.6	12.4	223.4	11.4	291.6	10.1	357.4	7.2										
9.7	20.5	45.7	17.5	75.7	13.8	133.5	12.4	224.4	11.4	292.6	10.0	360.2	7.2										
10.7	20.5	46.7	17.4	76.7	13.8	136.4	12.4	227.2	11.4	293.5	10.0	363.0	7.2										
10.7	20.4	46.7	17.3	77.7	13.7	138.3	12.4	227.2	11.4	295.4	9.9	364.0	7.1										
11.7	20.4	46.7	17.2	77.7	13.6	140.3	12.4	228.2	11.3	297.3	9.8	366.8	7.1										
12.7	20.3	47.6	17.1	78.6	13.5	142.2	12.4	229.1	11.3	297.3	9.8	368.7	7.0										
12.7	20.2	47.6	17.0	78.6	13.4	144.1	12.3	231.0	11.3	300.1	9.7	372.4	6.9										
13.6	20.1	47.6	16.8	79.6	13.3	145.1	12.3	232.0	11.2	301.0	9.6	373.3	6.8										
13.6	20.1	48.6	16.7	79.6	13.2	147.0	12.2	233.9	11.2	302.0	9.5	375.2	6.8										
14.6	20.0	48.6	16.7	80.6	13.1	148.9	12.2	235.8	11.1	302.0	9.4	377.1	6.8										
14.6	19.9	48.6	16.6	80.6	13.1	150.8	12.2	237.7	11.1	304.8	9.3	381.7	6.7										
15.6	19.8	49.6	16.6	81.5	13.0	153.7	12.2	239.6	11.1	305.8	9.2	382.7	6.7										
15.6	19.7	49.6	16.5	81.5	12.9	156.6	12.2	240.5	11.1	305.8	9.1	386.4	6.7										
15.6	19.6	51.5	16.5	82.5	12.8	158.5	12.2	241.5	11.0	306.7	9.0	388.3	6.7										
16.6	19.5	52.5	16.5	82.5	12.7	160.4	12.2	242.4	11.0	307.6	8.8	393.9	6.7										
16.6	19.5	53.5	16.4	83.5	12.5	162.3	12.2	244.3	10.9	308.6	8.7	395.7	6.7										
16.6	19.4	53.5	16.3	84.4	12.5	164.2	12.2	246.2	10.9	308.6	8.5	398.5	6.6										
16.6	19.3	54.4	16.3	85.4	12.5	166.2	12.2	248.1	10.9	309.5	8.3	401.3	6.6										
16.6	19.3	54.4	16.2	86.4	12.7	169.0	12.1	249.0	10.8	310.5	8.3	402.3	6.5										
17.5	19.2	55.4	16.1	87.3	12.7	171.9	12.1	250.9	10.8	311.4	8.2	403.2	6.5										
17.5	19.2	55.4	16.1	88.3	12.7	173.8	12.1	251.9	10.8	312.4	8.2	404.1	6.4										
18.5	19.2	55.4	16.1	88.3	12.7	175.7	12.1	252.8	10.8	313.3	8.1	404.1	6.4										
19.5	19.1	55.4	15.9	90.2	12.7	177.6	12.1	253.7	10.8	314.2	8.0	405.1	6.3										
20.4	19.1	56.4	15.8	92.1	12.7	180.5	12.1	255.7	10.8	315.2	7.9	406.0	6.3										
20.4	19.1	57.3	15.8	93.1	12.7	182.4	12.1	256.6	10.7	316.1	7.7	407.8	6.2										
22.4	19.1	58.3	15.8	94.1	12.8	184.3	12.1	258.5	10.7	317.1	7.7	408.8	6.2										
23.4	19.1	58.3	15.8	95.0	12.9	186.2	12.1	259.5	10.7	318.0	7.6	408.8	6.1										
24.3	19.2	59.3	15.7	96.0	12.9	188.1	12.1	261.4	10.6	318.9	7.5	410.6	6.1										
25.3	19.2	60.2	15.6	97.9	12.9	189.9	12.1	262.3	10.5	320.8	7.5	411.6	6.1										
26.3	19.2	61.2	15.5	98.9	12.9	190.1	11.9	263.3	10.5	322.7	7.5	413.4	6.1										
27.3	19.2	61.2	15.4	99.9	12.9	192.8	11.9	265.1	10.5	324.6	7.5	416.2	6.1										
27.3	19.2	61.2	15.3	100.8	12.9	194.8	11.9	266.1	10.5	327.4	7.5	417.2	6.1										
29.2	19.1	61.2	15.2	101.8	12.8	196.7	11.9	268.0	10.5														
30.2	19.0	61.2	15.1	102.8	12.8	197.7	11.8	268.9	10.5														
31.1	18.9	62.2	15.0	103.7	12.8	199.6	11.8																
33.1	18.8	62.2	14.8	105.6	12.7																		
34.1	18.7	62.2	14.7	106.6	12.7																		

SHIP	CRUISE	STATION	DATE		EST	LATITUDE	LONGITUDE	DEPTH	SHIP	CRUISE	STATION	DATE		EST	LATITUDE	LONGITUDE	DEPTH		
OC	122	76	TEMP	SALIN	OXY	ATN	SI GT	DYHT A	S SPD	OC	122	76	TEMP	SALIN	OXY	ATN	SI GT	DYHT A	S SPD
DEPTH	PRESS	TEMP	OKY	OKY	OKY	OKY	OKY	OKY	OKY	DEPTH	PRESS	TEMP	OKY	OKY	OKY	OKY	OKY	OKY	OKY
m	dbar	°C	ml/l	psu	m ⁻¹	gm/cm ³	10m ² /s ²	m/s	cph	m	dbar	°C	ml/l	psu	ml/l	m ⁻¹	gm/cm ³	10m ² /s ²	m/s
1	0.7	21.059	34.331	5.27	0.34	23.970	0.000	1524.	12.0	99	100.1	12.953	35.337	4.65	0.13	26.664	0.232	1502.	3.8
2	2.0	21.067	34.339	5.27	0.34	23.974	0.005	1524.	12.0	101	102.0	13.047	35.393	4.64	0.13	26.688	0.234	1502.	3.7
4	4.0	21.286	34.530	5.28	0.35	24.060	0.013	1525.	12.0	103	104.0	13.125	35.425	4.64	0.12	26.698	0.237	1503.	3.8
6	6.0	21.517	34.751	5.25	0.35	24.159	0.020	1525.	12.0	105	106.0	13.154	35.438	4.64	0.12	26.702	0.240	1503.	3.9
8	8.1	21.571	34.851	5.28	0.34	24.225	0.028	1526.	12.0	107	108.1	13.168	35.447	4.65	0.12	26.706	0.243	1503.	3.8
10	9.9	21.407	34.835	5.40	0.34	24.258	0.035	1525.	12.7	109	110.0	13.173	35.449	4.68	0.11	26.707	0.245	1503.	3.6
12	12.1	20.564	34.691	5.53	0.37	24.378	0.043	1523.	13.1	111	112.0	12.963	35.427	4.72	0.11	26.732	0.248	1502.	3.5
14	13.9	19.828	34.608	5.70	0.38	24.509	0.049	1521.	13.1	113	114.0	12.859	35.413	4.74	0.11	26.742	0.251	1502.	3.3
16	16.0	19.128	34.631	5.81	0.38	24.707	0.056	1519.	13.1	115	116.1	12.844	35.412	4.73	0.11	26.744	0.253	1502.	3.0
18	17.9	19.318	34.826	5.83	0.37	24.808	0.062	1520.	12.8	117	118.0	12.834	35.414	4.72	0.11	26.748	0.256	1502.	3.2
20	20.0	19.208	34.892	5.83	0.38	24.886	0.069	1519.	12.0	119	120.0	12.830	35.416	4.70	0.11	26.750	0.259	1502.	3.6
22	22.0	18.958	34.861	5.87	0.38	24.927	0.075	1519.	10.8	121	121.9	12.835	35.415	4.63	0.11	26.748	0.261	1502.	4.4
24	24.0	18.961	34.987	5.88	0.37	25.022	0.081	1519.	10.0	123	124.0	12.825	35.413	4.56	0.11	26.749	0.264	1502.	5.0
26	26.0	19.100	35.116	5.86	0.36	25.086	0.086	1520.	10.4	125	126.1	12.761	35.443	4.53	0.11	26.785	0.267	1502.	5.2
28	28.0	19.170	35.174	5.82	0.36	25.112	0.092	1520.	10.7	127	128.0	12.648	35.461	4.51	0.11	26.821	0.269	1502.	5.2
30	30.1	18.889	35.120	5.84	0.36	25.142	0.098	1519.	11.0	129	129.9	12.550	35.472	4.50	0.11	26.849	0.271	1501.	5.0
32	31.9	18.719	35.204	5.86	0.35	25.250	0.103	1519.	11.0	131	132.0	12.531	35.474	4.48	0.11	26.855	0.274	1501.	4.5
34	34.0	18.477	35.359	5.88	0.35	25.429	0.109	1518.	10.8	133	134.1	12.527	35.475	4.46	0.11	26.856	0.276	1501.	3.5
36	36.0	18.409	35.383	5.88	0.35	25.465	0.114	1518.	10.3	135	135.9	12.523	35.476	4.45	0.11	26.857	0.279	1501.	2.6
38	38.0	18.198	35.424	5.94	0.36	25.549	0.119	1517.	9.4	137	138.0	12.509	35.476	4.43	0.11	26.860	0.281	1501.	1.8
40	39.9	18.136	35.435	5.96	0.35	25.572	0.123	1517.	8.2	139	140.1	12.503	35.475	4.41	0.11	26.861	0.284	1501.	1.9
42	42.1	18.077	35.433	5.93	0.35	25.586	0.129	1517.	7.1	141	142.0	12.487	35.476	4.41	0.11	26.865	0.286	1501.	1.9
44	44.0	18.020	35.438	5.92	0.34	25.603	0.133	1517.	7.8	143	144.0	12.481	35.476	4.39	0.11	26.866	0.288	1501.	1.8
46	46.1	17.967	35.440	5.87	0.35	25.618	0.138	1517.	8.4	145	146.0	12.480	35.478	4.39	0.11	26.867	0.291	1501.	1.7
48	47.9	17.797	35.455	5.79	0.34	25.672	0.142	1516.	9.4	147	148.0	12.468	35.480	4.39	0.11	26.872	0.293	1501.	1.4
50	50.0	17.613	35.448	5.66	0.34	25.711	0.147	1516.	10.0	149	150.0	12.467	35.480	4.40	0.11	26.872	0.296	1501.	1.2
52	52.0	16.903	35.414	5.68	0.32	25.856	0.152	1514.	10.4	151	152.0	12.469	35.480	4.38	0.11	26.871	0.298	1501.	1.2
54	54.0	16.546	35.395	5.63	0.30	25.926	0.156	1513.	10.3	153	154.0	12.463	35.480	4.38	0.11	26.873	0.301	1502.	1.4
56	56.0	16.219	35.402	5.57	0.28	26.007	0.160	1512.	10.0	155	156.0	12.474	35.479	4.36	0.11	26.870	0.303	1502.	1.5
58	58.0	16.146	35.408	5.45	0.26	26.029	0.164	1512.	9.5	157	158.1	12.462	35.480	4.35	0.11	26.873	0.306	1502.	1.8
60	60.0	16.009	35.443	5.34	0.24	26.088	0.168	1511.	8.8	159	159.9	12.449	35.480	4.34	0.11	26.876	0.308	1502.	1.9
62	62.1	15.929	35.462	5.23	0.22	26.120	0.172	1511.	8.6	161	162.0	12.422	35.481	4.34	0.11	26.881	0.310	1501.	1.9
64	64.0	15.750	35.484	5.11	0.21	26.178	0.176	1511.	8.5	163	164.0	12.408	35.481	4.33	0.11	26.884	0.313	1501.	1.9
66	65.9	15.648	35.484	5.00	0.20	26.201	0.179	1510.	8.5	165	166.1	12.403	35.481	4.34	0.11	26.885	0.315	1501.	1.9
68	68.0	15.242	35.451	4.96	0.18	26.267	0.183	1509.	8.5	167	167.8	12.402	35.482	4.34	0.11	26.886	0.317	1502.	1.8
70	70.1	14.834	35.408	4.95	0.18	26.324	0.186	1508.	8.5	169	170.0	12.408	35.480	4.31	0.11	26.883	0.320	1502.	1.8
72	72.0	14.596	35.394	4.92	0.17	26.365	0.190	1507.	8.2	171	172.1	12.379	35.480	4.30	0.11	26.889	0.322	1502.	2.5
74	74.1	14.483	35.385	4.86	0.16	26.382	0.193	1507.	7.8	173	174.0	12.357	35.481	4.28	0.11	26.894	0.325	1501.	3.1
76	75.9	14.154	35.386	4.86	0.16	26.454	0.196	1506.	7.2	175	176.0	12.354	35.481	4.23	0.11	26.895	0.327	1501.	3.5
78	78.0	13.983	35.376	4.85	0.15	26.482	0.199	1505.	6.6	177	178.0	12.329	35.477	4.18	0.11	26.897	0.329	1501.	3.8
79	80.0	13.919	35.363	4.82	0.15	26.465	0.202	1505.	6.2	179	180.0	12.189	35.477	4.17	0.11	26.924	0.332	1501.	3.8
81	82.0	13.720	35.345	4.81	0.15	26.513	0.206	1504.	6.2	181	182.0	12.103	35.475	4.16	0.11	26.939	0.334	1501.	3.7
83	84.0	13.636	35.339	4.77	0.15	26.526	0.209	1504.	5.9	183	184.1	12.080	35.474	4.15	0.11	26.943	0.336	1501.	3.8
85	86.0	13.476	35.313	4.74	0.15	26.539	0.212	1504.	6.0	185	185.9	12.066	35.473	4.12	0.11	26.945	0.339	1501.	3.6
87	87.9	13.243	35.279	4.70	0.14	26.560	0.215	1503.	6.1	187	188.0	12.035	35.472	4.08	0.11	26.949	0.341	1501.	3.3
89	90.0	12.761	35.229	4.76	0.14	26.619	0.218	1501.	5.8	189	190.0	12.009	35.470	4.05	0.11	26.953	0.343	1501.	3.3
91	92.0	12.807	35.269	4.73	0.14	26.640	0.220	1501.	5.5	191	192.0	11.916	35.468	4.04	0.11	26.969	0.346	1500.	3.3
93	94.0	12.893	35.299	4.71	0.14	26.646	0.223	1502.	5.1	193	194.0	11.877	35.463	4.02	0.11	26.973	0.348	1500.	3.2
95	96.0	12.934	35.317	4.68	0.14	26.653	0.226	1502.	4.6	195	196.0	11.809	35.463	4.02	0.11	26.986	0.350	1500.	3.0
97	98.0	12.944	35.326	4.66	0.14	26.658	0.229	1502.	4.0	197	198.0	11.802	35.462	4.01	0.11	26.987	0.352	1500.	2.7

SHIP OC	CRUISE 122	STATION 77	DATE 14 JUL 1982	EST 1206	LATITUDE 40°25.0'N	LONGITUDE 68°06.0'W	DEPTH 148	SHIP OC	CRUISE 122	STATION 77	DATE 14 JUL 1982	EST 1206	LATITUDE 40°25.0'N	LONGITUDE 68°06.0'W	DEPTH 148	SHIP OC	CRUISE 122	STATION 77	DATE 14 JUL 1982	EST 1206	LATITUDE 40°25.0'N	LONGITUDE 68°06.0'W	DEPTH 148	SHIP OC	CRUISE 122	STATION 77	DATE 14 JUL 1982	EST 1206	LATITUDE 40°25.0'N	LONGITUDE 68°06.0'W	DEPTH 148	SHIP OC	CRUISE 122	STATION 77	DATE 14 JUL 1982	EST 1206	LATITUDE 40°25.0'N	LONGITUDE 68°06.0'W	DEPTH 148	SHIP OC	CRUISE 122	STATION 77	DATE 14 JUL 1982	EST 1206	LATITUDE 40°25.0'N	LONGITUDE 68°06.0'W	DEPTH 148																																																																																																																																																																																																																																																		
1	0.7	22.654	34.987	5.01	0.25	24.025	0.000	1529.	14.0	99	100.1	13.070	35.244	4.77	0.18	26.569	0.224	1502.	6.0	101	101.9	12.947	35.234	4.78	0.18	26.585	0.226	1502.	6.1	103	104.0	12.873	35.254	4.74	0.18	26.616	0.229	1502.	6.1	105	106.2	12.881	35.280	4.77	0.17	26.634	0.233	1502.	6.1	107	107.9	12.891	35.303	4.70	0.17	26.651	0.235	1502.	6.0	109	110.1	12.971	35.370	4.67	0.16	26.686	0.238	1502.	6.1	111	112.0	13.105	35.437	4.69	0.15	26.711	0.241	1503.	6.1	113	114.0	13.072	35.452	4.63	0.14	26.730	0.243	1503.	6.0	115	116.1	13.000	35.453	4.63	0.14	26.745	0.246	1503.	5.8	117	117.9	12.831	35.457	4.62	0.14	26.781	0.248	1502.	5.5	119	120.0	12.680	35.438	4.60	0.13	26.797	0.251	1502.	5.4	121	122.0	12.603	35.434	4.60	0.13	26.810	0.254	1501.	5.5	123	124.0	12.581	35.442	4.62	0.13	26.820	0.256	1501.	5.6	125	126.0	12.547	35.450	4.56	0.13	26.833	0.259	1501.	5.6	127	128.0	12.513	35.478	4.53	0.13	26.861	0.261	1501.	5.5	129	130.0	12.385	35.486	4.39	0.13	26.880	0.264	1501.	5.4	131	132.0	12.255	35.487	4.34	0.13	26.919	0.266	1500.	5.0	133	133.9	12.193	35.484	4.30	0.13	26.929	0.268	1500.	4.6	135	136.1	12.190	35.487	4.17	0.13	26.932	0.271	1500.	4.0	137	137.9	12.191	35.489	4.12	0.13	26.932	0.273	1500.	3.4	139	140.0	12.181	35.496	4.10	0.14	26.940	0.275	1500.	2.9	140	141.3	12.167	35.498	4.14	0.14	26.944	0.277	1500.	2.9	141	142.0	12.139	35.494	4.13	0.14	26.947	0.277	1500.	3.0	142	143.0	12.107	35.490	4.10	0.14	26.950	0.278	1500.	3.4	143	144.0	12.072	35.483	4.07	0.14	26.951	0.280	1500.	3.4	144	145.1	12.033	35.480	4.10	0.14	26.956	0.281	1500.	3.4	145	146.1	11.998	35.472	4.09	0.14	26.957	0.282	1500.	3.4	146	146.8	11.939	35.476	4.03	0.14	26.971	0.283	1500.	3.4

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STA 79					DAY: 14					TIME: 1411					STA 79					DAY: 14					TIME: 1411				
DEPTH (m)	TEMP (°C)	DEPTH (m)	TEMP (°C)	DEPTH (m)	TEMP (°C)	DEPTH (m)	TEMP (°C)	DEPTH (m)	TEMP (°C)	DEPTH (m)	TEMP (°C)	DEPTH (m)	TEMP (°C)	DEPTH (m)	TEMP (°C)	DEPTH (m)	TEMP (°C)	DEPTH (m)	TEMP (°C)	DEPTH (m)	TEMP (°C)	DEPTH (m)	TEMP (°C)	DEPTH (m)	TEMP (°C)	DEPTH (m)	TEMP (°C)	DEPTH (m)	TEMP (°C)
0.0	23.7	28.2	19.5	48.6	13.6	101.8	12.4	183.4	11.3	244.3	9.2	344.3	7.5	448.7	5.7	595.7	4.9												
0.0	23.7	28.2	19.3	50.6	13.5	102.8	12.4	185.3	11.2	245.2	9.2	345.2	7.4	451.5	5.7	598.4	4.9												
1.0	23.6	28.2	19.2	51.5	13.5	103.7	12.4	186.2	11.2	247.1	9.1	346.2	7.3	455.2	5.7	602.0	4.9												
1.0	23.6	29.2	19.1	52.5	13.4	105.6	12.5	187.2	11.1	248.1	9.0	347.1	7.2	457.1	5.6	603.8	4.9												
1.0	23.5	29.2	19.0	55.4	13.3	106.6	12.5	187.2	11.1	248.1	9.0	349.0	7.1	458.9	5.6	607.5	4.9												
1.9	23.5	29.2	18.8	55.4	13.4	108.5	12.5	190.1	11.0	249.0	8.9	350.9	7.1	462.6	5.5	609.3	4.8												
1.9	23.4	29.2	18.7	56.4	13.4	109.5	12.5	191.0	11.0	250.0	8.9	352.7	7.1	467.2	5.5	613.8	4.9												
3.9	23.4	29.2	18.5	56.4	13.6	111.4	12.5	192.0	11.0	250.9	8.8	354.6	6.9	470.9	5.5	615.7	4.8												
4.9	23.4	29.2	18.4	56.4	13.7	113.4	12.5	193.9	11.0	252.8	8.8	356.5	6.8	473.7	5.5	619.3	4.8												
5.8	23.4	28.2	18.3	57.3	13.8	114.3	12.5	194.8	11.0	253.8	8.7	358.4	6.8	477.4	5.5	622.0	4.8												
6.8	23.3	29.2	18.1	57.3	13.8	116.2	12.5	196.7	10.9	255.7	8.7	359.3	6.7	480.2	5.5	624.7	4.8												
6.8	23.2	29.2	18.1	58.3	13.9	118.2	12.5	197.7	10.9	257.6	8.7	361.2	6.6	482.0	5.5	626.5	4.7												
7.8	23.2	29.2	17.9	58.3	13.9	121.1	12.5	199.6	10.9	258.5	8.7	363.0	6.6	485.7	5.5	628.4	4.7												
8.8	23.2	29.2	17.8	60.2	13.9	124.9	12.5	200.5	10.9	260.4	8.7	365.8	6.6	488.5	5.4	632.0	4.7												
9.7	23.2	29.2	17.7	62.2	13.9	127.8	12.5	202.5	10.8	263.3	8.6	367.7	6.6	492.2	5.4	635.6	4.7												
10.7	23.1	30.2	17.4	64.1	13.9	129.7	12.5	204.4	10.8	265.1	8.6	371.5	6.5	494.9	5.4	638.3	4.7												
10.7	23.0	29.2	17.3	65.1	13.8	131.6	12.5	205.3	10.8	267.0	8.6	372.4	6.5	501.4	5.4	640.1	4.7												
11.7	23.0	29.2	17.1	68.0	13.9	132.6	12.4	207.2	10.8	268.9	8.6	374.3	6.5	504.1	5.4	640.1	4.7												
12.7	22.9	29.2	17.0	68.0	13.8	135.5	12.4	208.2	10.7	270.8	8.5	375.2	6.4	506.0	5.4	643.8	4.6												
12.7	22.8	30.2	16.8	69.0	13.8	136.4	12.4	209.1	10.7	272.7	8.5	377.1	6.4	506.9	5.4	646.5	4.6												
13.6	22.8	30.2	16.6	69.9	13.7	138.3	12.4	211.0	10.6	273.7	8.4	380.8	6.3	508.7	5.3	650.1	4.6												
13.6	22.7	30.2	16.5	70.9	13.7	139.3	12.3	212.9	10.6	273.7	8.4	380.8	6.3	510.6	5.3	652.8	4.6												
14.6	22.6	31.1	16.2	71.9	13.7	141.2	12.3	213.9	10.6	276.5	8.4	382.7	6.2	513.3	5.3	655.5	4.6												
16.6	22.5	31.1	16.2	71.9	13.6	143.1	12.3	213.9	10.5	278.4	8.3	385.5	6.2	517.0	5.3	658.2	4.6												
16.6	22.4	32.1	16.1	72.8	13.5	143.1	12.2	215.8	10.5	280.3	8.3	386.4	6.2	519.8	5.3	660.9	4.6												
17.5	22.2	33.1	16.0	72.8	13.5	144.1	12.1	216.7	10.4	284.1	8.3	387.3	6.2	522.5	5.3	663.6	4.6												
17.5	22.1	33.1	15.9	73.8	13.4	146.0	12.1	216.7	10.4	288.8	8.2	389.2	6.1	525.3	5.3	666.3	4.6												
18.5	22.0	33.1	15.8	74.8	13.4	146.0	12.1	217.7	10.3	291.6	8.2	391.1	6.1	527.1	5.3	669.0	4.6												
18.5	21.9	33.1	15.6	76.7	13.4	147.9	12.1	219.6	10.3	296.3	8.2	392.9	6.0	529.9	5.2	671.8	4.6												
19.5	21.7	34.1	15.4	77.7	13.4	148.9	12.1	221.5	10.3	302.0	8.2	394.8	6.0	533.5	5.2	672.7	4.6												
20.4	21.6	34.1	15.1	77.7	13.3	150.8	12.0	221.5	10.2	304.8	8.2	396.7	6.0	538.1	5.2	675.4	4.6												
20.4	21.5	34.1	15.0	78.6	13.3	151.8	12.0	222.4	10.2	308.6	8.2	398.5	6.0	541.8	5.2	678.1	4.6												
20.4	21.4	34.1	14.8	80.6	13.2	153.7	12.0	223.4	10.1	311.4	8.2	400.4	5.9	544.5	5.2	679.0	4.6												
21.4	21.3	34.1	14.7	81.5	13.2	155.6	11.9	224.4	10.1	312.4	8.1	401.3	5.9	548.2	5.2	679.9	4.6												
22.4	21.2	34.1	14.6	81.5	13.1	155.6	11.9	225.3	10.0	316.1	8.1	404.1	5.9	551.8	5.2	681.7	4.6												
22.4	21.1	35.0	14.5	82.5	13.1	158.5	11.9	226.3	10.0	318.9	8.1	406.9	5.9	554.6	5.2	683.5	4.6												
23.4	21.1	35.0	14.4	83.5	13.0	159.4	11.9	227.2	9.9	320.8	8.1	408.8	5.9	557.3	5.2	686.2	4.6												
24.3	21.1	36.0	14.3	84.4	12.9	162.3	11.9	228.2	9.8	322.7	8.1	411.6	5.8	560.1	5.1	688.0	4.6												
26.3	20.9	36.0	14.2	85.4	12.9	165.2	11.8	229.1	9.8	323.6	8.0	413.4	5.8	561.9	5.1	689.8	4.6												
26.3	20.8	37.0	14.1	86.4	12.8	168.1	11.8	229.1	9.7	326.5	8.0	414.4	5.8	564.7	5.1	690.7	4.6												
26.3	20.6	37.9	14.1	87.3	12.8	170.0	11.8	230.1	9.7	327.4	8.0	415.3	5.8	566.5	5.1														
27.3	20.5	38.9	14.0	89.2	12.7	170.9	11.7	231.0	9.5	329.3	8.0	418.1	5.7	568.3	5.1														
27.3	20.4	39.9	13.9	90.2	12.7	172.9	11.7	231.0	9.5	330.2	7.9	419.9	5.7	569.2	5.0														
27.3	20.3	39.9	13.8	92.1	12.7	173.8	11.6	232.9	9.5	332.1	7.8	422.7	5.7	571.0	5.0														
27.3	20.2	41.8	13.8	94.1	12.7	174.8	11.6	233.9	9.4	334.9	7.8	425.5	5.7	575.6	5.0														
27.3	20.1	41.8	13.8	95.0	12.6	176.7	11.6	234.8	9.3	336.8	7.8	430.2	5.7	577.4	5.0														
28.2	20.0	42.8	13.7	96.0	12.5	178.6	11.5	235.8	9.3	338.7	7.7	434.8	5.7	581.1	5.0														
28.2	19.8	44.7	13.7	97.0	12.4	180.5	11.5	237.7	9.3	339.6	7.6	437.6	5.7	583.8	4.9														
28.2	19.7	45.7	13.6	98.9	12.4	182.4	11.4	239.6	9.3	341.5	7.6	440.4	5.7	587.5	4.9														
28.2	19.6	46.7	13.6	99.9	12.4	182.4	11.3	241.5	9.2	343.4	7.6	444.1	5.7	592.0	4.9														

SHIP	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH	SHIP	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH
OC	122	80	14 JUL 1982	1350	40°15.0'N	68°07.1'W	1020	OC	122	80	14 JUL 1982	1350	40°15.0'N	68°07.1'W	1020
DEPTH	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH	DEPTH	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH
m	122	80	14 JUL 1982	1350	40°15.0'N	68°07.1'W	1020	m	122	80	14 JUL 1982	1350	40°15.0'N	68°07.1'W	1020
399	402.0	5.709	35.009	5.10	0.25	27.597	0.473	515	520.1	4.937	34.968	0.30	27.657	0.533	1479.1
401	404.1	5.706	35.009	5.12	0.25	27.597	0.474	535	540.0	4.906	34.965	0.31	27.659	0.543	1479.1
402	405.9	5.704	35.009	5.12	0.25	27.597	0.475	555	560.0	4.816	34.964	0.31	27.668	0.553	1479.1
405	408.1	5.696	35.008	5.15	0.26	27.598	0.476	575	580.0	4.695	34.960	0.31	27.679	0.562	1479.1
406	409.9	5.690	35.008	5.18	0.26	27.598	0.477	595	600.1	4.661	34.960	0.31	27.682	0.571	1479.0
408	412.0	5.679	35.007	5.16	0.26	27.599	0.478	614	620.0	4.659	34.960	0.31	27.683	0.581	1479.0
411	414.1	5.674	35.008	5.14	0.26	27.600	0.479	634	640.0	4.619	34.959	0.31	27.686	0.590	1480.0
412	415.9	5.671	35.007	5.17	0.27	27.600	0.480	654	660.0	4.588	34.958	0.31	27.689	0.600	1480.0
414	418.0	5.662	35.005	5.13	0.27	27.600	0.481	674	679.9	4.606	34.959	0.30	27.688	0.609	1480.0
416	420.0	5.650	35.006	5.14	0.27	27.602	0.482	693	700.0	4.534	34.949	0.29	27.688	0.618	1480.0
418	422.0	5.643	35.004	5.16	0.27	27.601	0.483	713	720.0	4.510	34.956	0.28	27.697	0.628	1481.0
420	424.1	5.631	35.004	5.16	0.28	27.603	0.485	733	740.0	4.504	34.950	0.27	27.692	0.637	1481.0
422	426.0	5.600	35.002	5.20	0.28	27.605	0.486								
424	428.0	5.583	35.002	5.17	0.28	27.607	0.487								
426	430.0	5.570	35.001	5.17	0.28	27.608	0.488								
428	432.0	5.559	35.001	5.19	0.28	27.609	0.489								
430	434.1	5.545	35.000	5.14	0.28	27.610	0.490								
432	436.0	5.525	34.998	5.19	0.28	27.611	0.491								
434	438.0	5.504	34.997	5.20	0.28	27.613	0.492								
436	440.0	5.514	34.973	5.15	0.28	27.593	0.493								
438	442.1	5.482	34.992	5.17	0.28	27.612	0.494								
440	443.9	5.469	34.995	5.21	0.28	27.615	0.495								
442	446.0	5.451	34.994	5.20	0.28	27.617	0.496								
444	448.0	5.436	34.993	5.17	0.28	27.618	0.497								
446	450.0	5.414	34.990	5.20	0.28	27.618	0.498								
448	452.1	5.402	34.990	5.19	0.28	27.620	0.499								
450	453.9	5.400	34.990	5.24	0.28	27.620	0.500								
452	456.0	5.396	34.990	5.20	0.28	27.620	0.501								
454	458.1	5.384	34.989	5.18	0.28	27.621	0.502								
456	459.9	5.372	34.988	5.24	0.28	27.622	0.503								
458	462.0	5.322	34.983	5.23	0.28	27.624	0.504								
460	464.1	5.275	34.980	5.21	0.28	27.627	0.506								
462	466.0	5.253	34.980	5.24	0.28	27.630	0.506								
464	468.0	5.221	34.977	5.27	0.28	27.631	0.508								
466	470.0	5.206	34.977	5.29	0.28	27.633	0.509								
468	472.0	5.192	34.976	5.27	0.28	27.634	0.510								
470	474.0	5.171	34.976	5.30	0.28	27.636	0.511								
472	476.0	5.165	34.976	5.33	0.28	27.637	0.512								
474	478.0	5.149	34.975	5.33	0.29	27.639	0.513								
476	480.0	5.123	34.974	5.30	0.29	27.640	0.514								
478	482.0	5.110	34.974	5.33	0.29	27.642	0.515								
480	483.9	5.105	34.974	5.39	0.29	27.643	0.516								
482	486.0	5.101	34.974	5.36	0.29	27.643	0.517								
484	487.9	5.099	34.974	5.37	0.29	27.643	0.517								
486	490.1	5.086	34.974	5.36	0.29	27.644	0.519								
488	492.0	5.076	34.973	5.38	0.29	27.645	0.520								
490	494.0	5.071	34.973	5.39	0.29	27.646	0.521								
492	496.0	5.065	34.972	5.37	0.29	27.646	0.522								
494	498.1	5.042	34.971	5.38	0.29	27.647	0.523								
495	499.9	5.016	34.971	5.43	0.29	27.651	0.523								

STA 81				DAY: 14				TIME: 1527				STA 81				DAY: 14				TIME: 1527			
DEPTH (m)	TEMP (°C)	DEPTH (m)	TEMP (°C)	DEPTH (m)	TEMP (°C)	DEPTH (m)	TEMP (°C)	DEPTH (m)	TEMP (°C)	DEPTH (m)	TEMP (°C)	DEPTH (m)	TEMP (°C)	DEPTH (m)	TEMP (°C)	DEPTH (m)	TEMP (°C)	DEPTH (m)	TEMP (°C)	DEPTH (m)	TEMP (°C)	DEPTH (m)	TEMP (°C)
0.0	24.0	22.4	20.9	45.7	18.5	70.9	15.8	95.0	13.6	148.9	12.4	197.7	10.4	250.0	9.1	306.7	7.3	379.9	5.9				
0.0	23.7	22.4	20.8	46.7	18.5	70.9	15.8	95.0	13.6	148.9	12.3	198.6	10.3	250.0	9.0	307.6	7.3	381.7	5.9				
0.0	23.6	23.4	20.8	46.7	18.4	70.9	15.7	96.0	13.6	149.9	12.3	200.5	10.3	250.9	9.0	309.5	7.2	383.6	5.9				
0.0	23.4	23.4	20.7	46.7	18.3	71.9	15.7	96.0	13.5	150.8	12.3	201.5	10.3	251.9	8.9	310.5	7.2	386.4	5.9				
0.0	23.4	24.3	20.7	47.6	18.3	71.9	15.6	97.0	13.5	152.7	12.2	202.5	10.3	252.8	8.9	312.4	7.2	390.1	5.9				
0.0	23.3	24.3	20.6	47.6	18.2	71.9	15.5	97.9	13.5	154.7	12.2	204.4	10.3	252.8	8.9	313.3	7.2	393.9	5.9				
1.0	23.2	25.3	20.6	48.6	18.1	72.8	15.5	98.9	13.4	155.6	12.2	205.3	10.2	253.8	8.9	314.2	7.1	395.7	5.8				
1.0	23.1	25.3	20.5	49.6	18.0	72.8	15.4	99.9	13.4	156.6	12.2	206.3	10.2	254.7	8.8	316.1	7.1	398.5	5.8				
1.0	23.1	26.3	20.4	49.6	17.9	72.8	15.4	100.8	13.3	158.5	12.2	207.2	10.2	255.7	8.8	317.1	7.0	400.4	5.8				
1.9	23.1	27.3	20.4	49.6	17.9	73.8	15.3	100.8	13.3	158.5	12.1	208.2	10.2	255.7	8.7	318.9	7.0	402.3	5.8				
2.9	23.0	28.2	20.4	49.6	17.8	73.8	15.3	100.8	13.3	159.4	12.1	210.1	10.2	256.6	8.7	320.8	7.0	403.2	5.8				
2.9	22.9	28.2	20.3	49.6	17.8	74.8	15.2	101.8	13.2	160.4	12.0	210.1	10.1	257.6	8.6	322.7	7.0	405.1	5.7				
3.9	22.8	28.2	20.2	49.6	17.7	74.8	15.1	102.8	13.1	162.3	12.0	211.0	10.1	258.5	8.6	323.6	6.9	406.0	5.7				
3.9	22.8	29.2	20.1	50.6	17.6	74.8	15.0	103.7	13.1	163.3	12.0	213.9	10.0	259.5	8.5	324.6	6.9	407.8	5.7				
3.9	22.7	29.2	20.0	50.6	17.5	74.8	15.0	103.7	13.0	163.3	12.0	213.9	10.0	259.5	8.5	324.6	6.9	409.7	5.6				
3.9	22.6	29.2	20.0	50.6	17.5	74.8	14.9	104.7	13.0	164.2	12.0	214.8	10.0	260.4	8.5	326.5	6.8	411.6	5.5				
4.9	22.5	29.2	20.0	51.5	17.4	74.8	14.9	105.6	12.9	165.2	11.9	215.8	9.9	261.4	8.4	327.4	6.8	413.4	5.5				
4.9	22.4	29.2	19.9	51.5	17.4	75.7	14.8	106.6	12.9	167.1	11.9	216.7	9.9	263.3	8.4	328.3	6.8	416.2	5.5				
4.9	22.3	30.2	19.9	52.5	17.3	75.7	14.7	107.6	12.9	169.0	11.9	217.7	9.8	264.2	8.4	329.3	6.7	418.1	5.5				
5.8	22.3	31.1	19.9	53.5	17.3	75.7	14.7	108.5	12.9	169.0	11.8	218.6	9.8	267.0	8.4	330.2	6.6	420.9	5.5				
5.8	22.2	32.1	19.9	54.4	17.3	75.7	14.6	110.5	12.9	170.0	11.8	220.5	9.8	268.9	8.4	331.2	6.6	423.7	5.4				
6.8	22.1	33.1	19.9	54.4	17.2	76.7	14.6	110.5	12.9	170.9	11.7	222.4	9.7	269.9	8.4	332.1	6.6	425.5	5.4				
6.8	22.1	34.1	19.8	54.4	17.1	77.7	14.6	110.5	13.0	172.9	11.7	223.4	9.7	270.8	8.3	333.0	6.5	427.4	5.4				
7.8	22.1	35.0	19.8	55.4	17.1	77.7	14.5	110.5	13.0	174.8	11.7	224.4	9.7	271.8	8.3	334.0	6.5	431.1	5.4				
8.8	22.0	35.0	19.7	56.4	17.1	78.6	14.5	110.5	13.0	176.7	11.7	225.3	9.7	271.8	8.3	335.9	6.5	433.9	5.3				
8.8	21.9	36.0	19.7	56.4	17.0	78.6	14.5	111.4	13.1	176.7	11.6	226.3	9.6	272.7	8.2	337.7	6.5	435.7	5.3				
8.8	21.9	36.0	19.5	57.3	17.0	79.6	14.5	111.4	13.1	177.6	11.5	227.2	9.6	273.7	8.2	338.7	6.5	437.5	5.3				
8.8	21.9	37.0	19.4	57.3	16.9	79.6	14.4	113.4	13.1	177.6	11.4	229.1	9.5	275.6	8.2	339.6	6.4	440.4	5.3				
9.7	21.8	37.0	19.3	58.3	16.9	80.6	14.4	114.3	13.1	178.6	11.4	230.1	9.4	277.4	8.1	341.5	6.3	442.2	5.3				
9.7	21.8	37.0	19.2	59.3	16.8	80.6	14.3	115.3	13.0	178.6	11.3	231.0	9.4	278.4	8.1	342.5	6.3	444.1	5.2				
9.7	21.8	37.0	19.1	60.2	16.8	81.5	14.3	116.2	13.0	179.5	11.2	232.0	9.4	280.3	8.1	344.3	6.3	446.9	5.2				
10.7	21.7	37.9	19.0	60.2	16.7	82.5	14.2	118.2	13.0	180.5	11.2	233.9	9.3	281.2	8.0	345.2	6.3	448.7	5.2				
11.7	21.7	37.9	18.8	61.2	16.7	82.5	14.2	119.1	13.0	181.5	11.2	235.8	9.3	283.1	8.0	347.1	6.3	448.7	5.2				
11.7	21.6	37.9	18.7	61.2	16.7	83.5	14.2	121.1	12.9	182.4	11.1	236.7	9.3	284.1	8.0	348.1	6.3	450.6	5.2				
12.7	21.5	37.9	18.6	61.2	16.6	83.5	14.2	122.0	12.9	183.4	11.0	237.7	9.3	286.9	7.9	350.9	6.2	454.3	5.2				
12.7	21.5	37.9	18.5	62.2	16.6	84.4	14.1	123.0	12.8	183.4	11.0	240.5	9.3	287.8	7.9	352.7	6.2	456.1	5.2				
13.6	21.4	38.9	18.5	63.1	16.5	85.4	14.1	123.9	12.7	184.3	11.0	240.5	9.3	289.7	7.9	354.6	6.2	457.1	5.2				
13.6	21.4	39.9	18.4	64.1	16.4	86.4	14.1	125.9	12.7	185.3	10.9	241.5	9.3	290.7	7.9	355.6	6.2	458.9	5.2				
14.6	21.3	40.9	18.4	64.1	16.4	88.3	14.1	127.8	12.7	185.3	10.8	242.4	9.3	291.6	7.8	359.3	6.1	460.8	5.2				
14.6	21.3	41.8	18.4	64.1	16.3	89.2	14.1	129.7	12.7	187.2	10.8	244.3	9.3	291.6	7.8	360.2	6.1	462.6	5.2				
14.6	21.2	42.8	18.5	65.1	16.3	89.2	14.1	131.6	12.6	188.1	10.8	245.2	9.2	293.5	7.7	362.1	6.1	464.5	5.2				
15.6	21.2	42.8	18.5	66.0	16.3	89.2	14.1	132.6	12.5	189.1	10.7	246.2	9.2	294.4	7.6	363.0	6.0	467.2	5.2				
16.6	21.2	43.8	18.6	67.0	16.2	90.2	14.0	134.5	12.5	190.1	10.7	246.2	9.2	295.4	7.5	365.8	6.0	470.0	5.2				
17.5	21.2	43.8	18.6	68.0	16.2	90.2	13.9	136.4	12.5	191.0	10.7	246.2	9.2	297.3	7.5	366.8	5.9	472.8	5.2				
18.5	21.2	44.7	18.6	69.0	16.2	90.2	13.9	138.3	12.5	192.9	10.6	246.2	9.2	300.1	7.5	369.6	5.9	476.5	5.2				
19.5	21.1	44.7	18.6	69.0	16.1	90.2	13.8	140.3	12.5	192.9	10.6	247.1	9.1	301.0	7.5	370.5	5.9	477.4	5.2				
19.5	21.1	44.7	18.7	69.0	16.1	91.2	13.8	142.2	12.4	193.9	10.6	247.1	9.1	302.0	7.4	372.4	5.9	479.2	5.2				
20.4	21.0	44.7	18.7	69.9	16.0	91.2	13.7	144.1	12.4	194.8	10.5	248.1	9.1	303.9	7.4	373.3	5.9	482.0	5.2				
20.4	21.0	45.7	18.7	69.9	15.9	92.1	13.6	146.0	12.4	195.8	10.5	248.1	9.1	304.8	7.3	375.2	5.9	484.8	5.2				
21.4	20.9	45.7	18.6	70.9	15.8	94.1	13.6	147.0	12.4	197.7	10.4	249.0	9.1	305.8	7.3	378.9	5.9	486.6	5.2				

STA 81 DAY: 14 TIME: 1527

DEPTH (m)	TEMP (°C)	DEPTH (m)	TEMP (°C)	DEPTH (m)	TEMP (°C)
488.5	5.2	602.9	4.8	727.5	4.5
491.2	5.2	605.7	4.8	730.1	4.5
492.2	5.2	608.4	4.8	731.9	4.5
493.1	5.1	611.1	4.8	734.6	4.5
495.8	5.1	613.8	4.8	737.3	4.5
498.6	5.0	616.6	4.8	740.0	4.5
500.4	5.0	618.4	4.8	743.6	4.5
501.4	5.0	621.1	4.8	745.3	4.5
503.2	5.0	623.8	4.7	748.0	4.5
505.0	5.0	626.5	4.7	749.8	4.4
506.9	5.0	631.1	4.7		
510.6	5.0	632.9	4.7		
512.4	5.0	635.6	4.7		
515.2	5.0	637.4	4.7		
518.8	5.0	640.1	4.7		
520.7	5.0	643.8	4.7		
524.4	5.0	645.6	4.7		
526.2	5.0	647.4	4.7		
528.0	5.0	650.1	4.7		
530.8	4.9	652.8	4.7		
533.5	4.9	654.6	4.7		
535.4	5.0	656.4	4.7		
539.0	5.0	659.1	4.7		
539.9	5.0	660.9	4.7		
542.7	4.9	662.7	4.7		
544.5	4.9	665.4	4.7		
546.4	4.9	667.2	4.7		
549.1	4.9	670.0	4.7		
551.8	4.9	670.9	4.6		
554.6	4.9	673.6	4.6		
556.4	4.9	676.3	4.6		
559.2	4.9	678.1	4.6		
560.1	4.9	680.8	4.6		
561.9	4.9	683.5	4.6		
564.7	4.9	684.4	4.6		
566.5	4.9	687.1	4.6		
568.3	4.9	689.8	4.6		
572.0	4.9	692.5	4.6		
573.8	4.8	694.3	4.6		
576.5	4.8	696.1	4.6		
578.3	4.8	697.9	4.6		
580.2	4.8	699.7	4.6		
582.0	4.8	704.1	4.6		
583.8	4.8	705.9	4.6		
586.5	4.8	708.6	4.6		
588.4	4.8	711.3	4.6		
592.0	4.8	714.0	4.6		
593.8	4.8	717.6	4.5		
596.6	4.8	720.3	4.5		
600.2	4.8	723.9	4.5		

SHIP OC	CRUISE 122	STATION 82	DATE 14 JUL 1982	EST 1500	LATITUDE 40°13.1'N	LONGITUDE 68°14.2'W	DEPTH 575		
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
1	0.8	20.815	34.540	5.20	0.31	24.195	0.000	1523.	12.2
2	1.9	20.751	34.534	5.41	0.31	24.208	0.004	1523.	12.2
4	4.0	20.513	34.519	5.57	0.32	24.260	0.012	1522.	12.2
6	6.0	20.328	34.502	5.68	0.33	24.296	0.019	1522.	12.2
8	8.0	20.057	34.569	5.75	0.37	24.419	0.026	1521.	12.2
10	10.0	19.895	34.645	5.78	0.38	24.520	0.033	1521.	12.6
12	12.1	19.580	34.713	5.87	0.39	24.654	0.040	1520.	12.8
14	14.0	19.370	34.780	5.92	0.40	24.760	0.046	1520.	13.0
16	16.0	18.927	34.823	6.01	0.43	24.906	0.052	1519.	12.6
18	18.0	18.877	34.876	6.04	0.42	24.959	0.058	1518.	11.9
20	20.0	18.823	34.948	6.03	0.42	25.028	0.064	1518.	11.2
22	21.9	18.235	34.940	6.16	0.44	25.169	0.070	1517.	10.5
24	24.0	18.268	35.000	6.21	0.44	25.206	0.076	1517.	10.3
26	26.0	18.509	35.090	6.18	0.44	25.215	0.081	1518.	10.7
28	28.0	18.170	35.092	6.22	0.44	25.301	0.086	1517.	11.8
30	30.0	17.890	35.053	6.18	0.45	25.341	0.092	1516.	12.8
32	32.0	17.129	34.992	6.17	0.45	25.478	0.097	1514.	13.7
34	34.0	16.558	34.969	5.97	0.44	25.595	0.102	1512.	14.1
36	36.0	15.432	34.988	5.96	0.43	25.867	0.106	1509.	14.0
38	38.0	14.990	35.038	5.82	0.37	26.004	0.111	1507.	13.6
40	40.0	14.642	34.997	5.67	0.32	26.048	0.114	1506.	12.6
42	42.0	14.310	34.992	5.56	0.25	26.116	0.118	1505.	11.3
44	44.0	13.903	34.958	5.47	0.21	26.175	0.122	1504.	9.5
46	46.1	13.452	34.935	5.42	0.18	26.251	0.126	1502.	8.5
48	47.9	13.259	34.951	5.36	0.17	26.303	0.129	1502.	7.8
50	50.0	13.301	34.974	5.27	0.17	26.313	0.133	1502.	7.3
52	52.0	13.330	35.007	5.18	0.17	26.332	0.136	1502.	6.8
54	54.0	13.314	35.018	5.11	0.17	26.344	0.139	1502.	6.3
55	55.9	13.238	35.026	5.07	0.16	26.365	0.143	1502.	6.4
57	57.9	13.067	35.055	5.08	0.16	26.423	0.146	1501.	6.8
59	59.9	13.033	35.072	5.07	0.15	26.443	0.149	1501.	6.7
61	62.0	13.001	35.088	5.09	0.15	26.461	0.152	1501.	6.4
64	64.0	13.190	35.200	5.06	0.15	26.510	0.156	1502.	6.0
66	66.0	13.581	35.340	4.99	0.14	26.538	0.159	1504.	5.8
67	68.0	13.917	35.430	4.90	0.14	26.538	0.161	1505.	5.8
69	70.0	13.922	35.423	4.86	0.14	26.531	0.164	1505.	5.6
71	72.0	13.610	35.371	4.89	0.14	26.557	0.167	1504.	5.4
73	73.9	13.290	35.371	4.95	0.14	26.622	0.170	1503.	5.6
75	76.0	13.582	35.440	4.86	0.13	26.615	0.173	1504.	5.9
77	77.9	13.571	35.465	4.83	0.13	26.637	0.176	1504.	5.9
79	79.9	13.371	35.424	4.84	0.12	26.647	0.179	1503.	5.4
81	82.0	13.195	35.427	4.84	0.12	26.685	0.182	1503.	4.9
83	84.0	13.212	35.448	4.83	0.12	26.698	0.184	1503.	4.8
85	86.0	13.223	35.467	4.82	0.12	26.710	0.187	1503.	4.5
87	88.0	13.253	35.485	4.80	0.12	26.718	0.190	1503.	4.1
89	90.0	13.306	35.501	4.78	0.12	26.719	0.193	1503.	3.8
91	92.0	13.272	35.505	4.78	0.12	26.729	0.195	1503.	3.7
93	94.0	13.286	35.522	4.77	0.11	26.740	0.198	1503.	3.6
95	96.0	13.309	35.540	4.75	0.11	26.749	0.201	1503.	3.4
97	98.0	13.260	35.548	4.75	0.11	26.766	0.203	1503.	3.2

SHIP OC	CRUISE 122	STATION 82	DATE 14 JUL 1982	EST 1500	LATITUDE 40°13.1'N	LONGITUDE 68°14.2'W	DEPTH 575	DEPTH m	SHIP OC	CRUISE 122	STATION 82	DATE 14 JUL 1982	EST 1500	LATITUDE 40°13.1'N	LONGITUDE 68°14.2'W	DEPTH 575					
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
298	300.0	7.334	35.079	4.22	0.18	27.434	0.409	1485.	2.9		397	400.0	5.687	35.004	5.08	0.21	27.595	0.470	1480.	1.7	
300	302.1	7.280	35.080	4.24	0.18	27.443	0.410	1485.	2.7		399	402.0	5.677	35.004	5.09	0.21	27.597	0.471	1480.	1.7	
301	304.0	7.273	35.080	4.25	0.18	27.443	0.412	1485.	2.5		401	404.0	5.670	35.003	5.10	0.21	27.597	0.472	1480.	1.7	
303	306.0	7.262	35.080	4.26	0.18	27.445	0.413	1485.	2.2		403	406.0	5.653	35.000	5.10	0.21	27.596	0.474	1480.	1.7	
305	307.9	7.252	35.079	4.27	0.18	27.445	0.414	1485.	1.8		404	408.0	5.599	35.000	5.11	0.21	27.603	0.475	1480.	1.7	
307	310.0	7.247	35.078	4.28	0.18	27.445	0.416	1485.	1.6		406	410.0	5.584	35.000	5.12	0.21	27.605	0.476	1480.	1.6	
309	312.0	7.216	35.076	4.29	0.19	27.449	0.417	1485.	1.7		408	412.0	5.580	34.999	5.13	0.21	27.605	0.477	1480.	1.5	
311	313.9	7.195	35.076	4.30	0.19	27.452	0.418	1485.	1.8		410	414.0	5.576	34.999	5.13	0.21	27.606	0.478	1480.	1.4	
313	315.9	7.187	35.074	4.32	0.19	27.451	0.420	1485.	2.0		412	416.0	5.569	34.999	5.15	0.21	27.607	0.479	1480.	1.2	
315	318.0	7.158	35.072	4.33	0.19	27.454	0.421	1485.	2.0		414	418.0	5.559	34.999	5.15	0.21	27.607	0.480	1480.	1.2	
317	320.0	7.122	35.071	4.34	0.19	27.458	0.422	1484.	2.2		416	420.0	5.554	34.997	5.15	0.21	27.607	0.481	1480.	1.2	
319	322.0	7.094	35.068	4.36	0.19	27.460	0.424	1484.	2.3		418	422.0	5.525	34.997	5.18	0.21	27.610	0.482	1480.	1.1	
321	324.0	7.057	35.068	4.38	0.19	27.465	0.425	1484.	2.4		420	424.0	5.523	34.998	5.18	0.21	27.611	0.483	1480.	1.0	
323	325.9	7.032	35.063	4.39	0.19	27.464	0.426	1484.	2.4		422	426.0	5.528	34.997	5.17	0.21	27.610	0.484	1480.	1.1	
325	328.0	6.974	35.063	4.41	0.19	27.472	0.428	1484.	2.3		424	428.0	5.528	34.998	5.20	0.21	27.610	0.485	1480.	1.5	
327	330.0	6.940	35.062	4.43	0.19	27.476	0.429	1484.	2.2		426	430.0	5.526	34.997	5.21	0.21	27.610	0.486	1480.	1.7	
329	332.0	6.924	35.061	4.45	0.19	27.478	0.430	1484.	2.0		428	432.0	5.500	34.993	5.19	0.21	27.610	0.487	1480.	1.8	
331	334.0	6.909	35.061	4.47	0.19	27.480	0.432	1484.	1.8		430	434.0	5.442	34.990	5.22	0.21	27.615	0.488	1480.	1.9	
333	335.9	6.900	35.061	4.50	0.19	27.481	0.433	1484.	1.3		432	436.0	5.386	34.992	5.23	0.22	27.623	0.489	1479.	2.0	
335	337.9	6.895	35.061	4.53	0.19	27.482	0.434	1484.	1.5		434	438.0	5.384	34.990	5.23	0.22	27.622	0.490	1479.	1.9	
337	340.0	6.889	35.060	4.55	0.19	27.482	0.435	1484.	2.2		436	440.0	5.379	34.990	5.23	0.22	27.622	0.491	1479.	1.7	
339	342.0	6.883	35.058	4.55	0.19	27.481	0.437	1484.	2.7		438	441.9	5.368	34.989	5.24	0.21	27.623	0.492	1479.	1.3	
341	344.0	6.842	35.051	4.58	0.19	27.481	0.438	1484.	3.2		440	444.0	5.355	34.989	5.24	0.22	27.625	0.493	1479.	1.0	
343	346.0	6.720	35.045	4.61	0.19	27.493	0.439	1483.	3.5		442	446.0	5.355	34.989	5.25	0.22	27.625	0.494	1479.	1.0	
345	348.0	6.577	35.041	4.65	0.20	27.509	0.441	1483.	3.6		444	448.0	5.349	34.989	5.25	0.22	27.625	0.495	1479.	0.9	
347	350.0	6.495	35.039	4.66	0.20	27.519	0.442	1482.	3.6		446	450.0	5.344	34.989	5.27	0.22	27.626	0.496	1479.	0.8	
349	352.0	6.433	35.036	4.69	0.20	27.525	0.443	1482.	3.4		448	452.0	5.342	34.988	5.27	0.22	27.626	0.498	1480.	0.7	
351	354.0	6.386	35.036	4.71	0.20	27.531	0.444	1482.	2.9		450	454.0	5.339	34.988	5.28	0.22	27.626	0.499	1480.	0.6	
353	356.0	6.369	35.034	4.72	0.20	27.532	0.445	1482.	2.6		452	456.0	5.336	34.988	5.28	0.22	27.626	0.500	1480.	1.1	
355	358.0	6.340	35.033	4.75	0.20	27.535	0.447	1482.	2.4		454	458.0	5.335	34.988	5.29	0.22	27.626	0.501	1480.	1.4	
357	360.0	6.324	35.032	4.77	0.20	27.536	0.448	1482.	2.2		456	460.0	5.324	34.987	5.29	0.22	27.627	0.502	1480.	1.6	
359	362.0	6.297	35.029	4.78	0.20	27.537	0.449	1482.	2.2		458	462.0	5.312	34.984	5.29	0.22	27.625	0.503	1480.	1.7	
361	363.9	6.232	35.029	4.81	0.20	27.546	0.450	1482.	2.2		460	464.1	5.249	34.984	5.31	0.22	27.633	0.504	1479.	1.8	
363	366.0	6.213	35.028	4.82	0.20	27.548	0.451	1482.	2.1		462	466.0	5.213	34.983	5.32	0.22	27.636	0.505	1479.	1.7	
365	368.1	6.199	35.026	4.85	0.20	27.548	0.452	1482.	2.2		464	467.9	5.215	34.982	5.32	0.22	27.636	0.506	1479.	1.6	
367	370.0	6.169	35.025	4.86	0.20	27.551	0.454	1482.	2.2		466	469.9	5.207	34.983	5.33	0.22	27.637	0.507	1479.	1.5	
369	371.9	6.142	35.025	4.88	0.20	27.554	0.455	1481.	2.2		468	471.9	5.199	34.982	5.33	0.22	27.636	0.508	1479.	1.1	
371	374.0	6.120	35.021	4.90	0.20	27.554	0.456	1481.	2.4		470	474.0	5.192	34.981	5.32	0.22	27.638	0.509	1479.	0.9	
373	376.0	6.062	35.018	4.91	0.20	27.559	0.457	1481.	2.5		472	476.0	5.189	34.981	5.32	0.22	27.638	0.510	1479.	0.8	
375	378.0	6.011	35.018	4.93	0.20	27.566	0.458	1481.	2.5		474	478.0	5.184	34.981	5.33	0.22	27.639	0.511	1479.	0.6	
377	380.0	5.971	35.014	4.95	0.20	27.568	0.459	1481.	2.5		476	480.0	5.173	34.981	5.34	0.22	27.640	0.512	1479.	0.6	
379	382.0	5.927	35.014	4.97	0.20	27.574	0.460	1481.	2.4		478	482.0	5.177	34.981	5.35	0.22	27.640	0.513	1479.	0.3	
381	384.0	5.912	35.013	4.99	0.20	27.574	0.462	1481.	2.3		480	484.0	5.194	34.982	5.35	0.22	27.638	0.515	1479.	-0.2	
383	386.0	5.886	35.011	5.00	0.20	27.577	0.463	1481.	2.2		482	486.0	5.193	34.981	5.35	0.22	27.638	0.515	1479.	-0.3	
385	387.9	5.855	35.011	5.02	0.21	27.580	0.464	1481.	2.3		484	488.0	5.187	34.981	5.35	0.22	27.639	0.516	1479.	-0.3	
387	390.0	5.832	35.008	5.02	0.21	27.581	0.465	1480.	2.2		486	490.0	5.185	34.981	5.36	0.22	27.639	0.517	1479.	0.6	
389	392.1	5.779	35.006	5.04	0.21	27.586	0.466	1480.	2.2		488	492.0	5.187	34.981	5.37	0.22	27.638	0.518	1480.	1.1	
391	394.0	5.739	35.005	5.05	0.21	27.590	0.467	1480.	2.2		490	494.0	5.179	34.981	5.37	0.22	27.639	0.519	1480.	1.3	
393	396.0	5.716	35.005	5.06	0.21	27.593	0.468	1480.	2.0		492	496.0	5.172	34.979	5.38	0.22	27.639	0.520	1480.	1.4	
395	398.0	5.700	35.004	5.07	0.21	27.594	0.469	1480.	1.8		494	498.0	5.151	34.979	5.38	0.22	27.641	0.521	1479.	1.6	

SHIP OC	CRUISE 122	STATION 82	DATE 14 JUL 1982	EST 1500	LATITUDE 40°13.1'N	LONGITUDE 68°14.2'W	DEPTH 575	STA 83				DAY: 14				TIME: 1709																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
								DEPTH (m)	TEMP (°C)	DEPTH (m)	TEMP (°C)	DEPTH (m)	TEMP (°C)	DEPTH (m)	TEMP (°C)	DEPTH (m)	TEMP (°C)	DEPTH (m)	TEMP (°C)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
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																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																

SHIP OC	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH	SHIP OC	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH
	122	84	14 JUL 1982	1637	40°17.2'N	68°17.6'W	175		122	84	14 JUL 1982	1637	40°17.2'N	68°17.6'W	175
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	21.347	34.824	5.16	0.34	24.266	0.000	1525.	16.7						
4	3.9	20.698	34.842	5.36	0.37	24.457	0.007	1523.	16.7						
6	6.1	19.713	34.755	5.61	0.37	24.651	0.015	1520.	16.7						
8	7.9	18.353	34.724	5.83	0.42	24.974	0.020	1517.	16.7						
10	10.1	17.839	34.846	5.96	0.45	25.195	0.027	1515.	16.7						
12	12.0	17.894	35.042	6.02	0.42	25.331	0.032	1516.	15.7						
14	14.0	17.847	35.146	5.99	0.39	25.422	0.037	1516.	14.4						
16	16.0	17.533	35.231	5.99	0.39	25.564	0.042	1515.	12.7						
18	17.9	17.548	35.291	5.97	0.37	25.607	0.047	1515.	11.9						
20	20.0	17.390	35.415	5.90	0.37	25.740	0.051	1515.	11.4						
22	22.0	17.372	35.444	5.79	0.38	25.767	0.056	1515.	10.9						
24	24.0	17.116	35.454	5.76	0.37	25.836	0.060	1514.	10.2						
26	25.9	16.578	35.425	5.77	0.34	25.941	0.064	1512.	9.6						
28	28.0	16.223	35.395	5.61	0.29	26.001	0.069	1511.	8.7						
30	29.9	16.012	35.367	5.44	0.27	26.028	0.072	1511.	8.1						
32	32.0	15.748	35.333	5.33	0.25	26.062	0.077	1510.	7.5						
34	34.1	15.611	35.312	5.25	0.24	26.077	0.081	1510.	7.2						
36	35.9	15.486	35.290	5.22	0.24	26.089	0.084	1509.	7.3						
38	38.1	15.017	35.196	5.24	0.22	26.120	0.088	1508.	7.4						
40	39.9	14.197	35.046	5.35	0.19	26.182	0.092	1505.	7.2						
42	42.0	13.946	35.063	5.25	0.17	26.248	0.095	1504.	7.0						
44	44.0	13.792	35.044	5.16	0.16	26.265	0.099	1504.	6.6						
46	46.0	13.713	35.040	5.12	0.16	26.279	0.102	1503.	5.9						
48	48.0	13.691	35.039	5.08	0.16	26.282	0.106	1503.	5.1						
50	50.1	13.562	35.017	5.08	0.16	26.292	0.110	1503.	4.6						
51	51.9	13.421	34.999	5.10	0.16	26.307	0.113	1502.	4.7						
54	54.0	13.287	34.990	5.09	0.16	26.328	0.116	1502.	4.9						
56	56.0	13.228	34.998	5.09	0.15	26.346	0.120	1502.	4.9						
58	58.0	13.190	35.001	5.08	0.15	26.356	0.123	1502.	4.7						
60	60.0	13.159	35.017	5.06	0.15	26.375	0.126	1502.	4.4						
62	62.0	13.086	35.018	5.03	0.15	26.390	0.130	1502.	4.0						
64	64.0	13.033	35.010	5.01	0.15	26.395	0.133	1501.	4.1						
65	66.0	13.012	35.010	5.00	0.15	26.399	0.136	1501.	4.4						
67	68.0	12.966	35.002	4.98	0.15	26.402	0.139	1501.	5.0						
69	70.0	12.884	34.993	5.01	0.14	26.412	0.143	1501.	5.5						
71	71.9	12.901	35.039	4.99	0.15	26.443	0.146	1501.	6.0						
73	74.0	13.010	35.107	4.93	0.14	26.474	0.149	1502.	6.3						
75	76.0	13.099	35.188	4.90	0.13	26.519	0.152	1502.	6.3						
77	78.0	12.967	35.174	4.92	0.15	26.535	0.155	1502.	6.0						
79	80.0	12.896	35.190	4.89	0.16	26.562	0.158	1501.	5.4						
81	82.0	13.082	35.257	4.80	0.14	26.576	0.161	1502.	4.7						
83	84.0	13.201	35.293	4.76	0.13	26.580	0.164	1503.	3.8						
85	86.0	13.233	35.316	4.73	0.12	26.591	0.167	1503.	3.6						
87	88.0	13.058	35.276	4.77	0.13	26.596	0.170	1502.	3.5						
89	90.0	13.001	35.256	4.77	0.14	26.592	0.173	1502.	3.6						
91	92.1	12.881	35.230	4.76	0.15	26.596	0.176	1502.	4.0						
93	94.0	12.898	35.268	4.73	0.16	26.622	0.179	1502.	4.2						
95	95.9	12.977	35.303	4.69	0.15	26.633	0.181	1502.	4.3						
97	98.0	13.004	35.324	4.65	0.14	26.644	0.184	1502.	4.4						
99	100.0	12.945	35.336	4.65	0.14	26.665	0.187	1502.	4.4						

STA 85				DAY: 14				TIME: 1823				SHIP OC	CRUISE 122	STATION 86	DATE			EST 1730	LATITUDE 40°22.1'N	LONGITUDE 68°20.8'W	S SPD m/s	N cph	
DEPTH (m)	TEMP (°C)	DEPTH (m)	TEMP (°C)	DEPTH (m)	TEMP (°C)	DEPTH (m)	TEMP (°C)	DEPTH (m)	TEMP (°C)	PRESS dbar	SALIN psu				OXY ml/l	ATN m ⁻¹	SIGCT gm/cm ³						DYHT A 10m ² /s ²
1.0	22.9	27.3	17.3	56.4	12.6	129.7	12.0	2	2.1	22.051	35.061	5.12	0.26	24.251	0.000	1527.	15.5						
1.0	22.6	28.2	17.2	58.3	12.5	131.6	12.0	4	4.0	22.052	35.061	5.22	0.26	24.251	0.007	1527.	15.5						
1.9	22.3	30.2	17.2	59.3	12.5	132.6	12.0	6	6.0	21.166	34.984	5.41	0.26	24.438	0.014	1525.	15.5						
1.0	22.2	31.1	17.1	61.2	12.5	135.5	12.0	8	7.9	20.327	34.982	5.53	0.27	24.663	0.021	1522.	15.5						
1.9	22.2	33.1	17.0	63.1	12.4	137.4	12.0	10	10.0	20.113	35.177	5.59	0.29	24.868	0.027	1522.	15.5						
2.9	22.0	34.1	17.0	66.0	12.4	139.3	12.0	12	12.0	20.157	35.458	5.53	0.29	25.071	0.033	1522.	15.0						
3.9	21.8	34.1	16.9	68.0	12.4	141.2	12.0	14	14.0	19.995	35.469	5.56	0.29	25.122	0.039	1522.	13.5						
2.9	21.7	36.0	16.8	69.9	12.4	142.2	12.0	16	16.0	19.605	35.476	5.63	0.30	25.230	0.044	1521.	11.8						
3.9	21.4	36.0	16.8	70.9	12.4	143.1	12.0	18	18.1	19.217	35.492	5.69	0.30	25.342	0.050	1520.	10.4						
3.9	21.3	37.0	16.7	71.9	12.3			20	20.0	19.174	35.497	5.58	0.30	25.357	0.055	1520.	9.8						
3.9	21.1	37.9	16.6	73.8	12.3			22	22.0	19.141	35.496	5.54	0.30	25.365	0.060	1520.	9.8						
3.9	21.0	37.9	16.5	74.8	12.3			24	23.9	18.996	35.495	5.61	0.30	25.402	0.065	1520.	9.7						
4.9	20.9	38.9	16.5	75.7	12.3			26	26.0	18.619	35.496	5.69	0.30	25.498	0.070	1519.	9.9						
5.8	20.8	38.9	16.4	76.7	12.3			28	28.1	18.191	35.497	5.69	0.31	25.606	0.075	1517.	10.4						
5.8	20.6	39.9	16.3	78.6	12.3			30	29.8	17.934	35.483	5.56	0.33	25.659	0.080	1517.	10.7						
6.8	20.5	40.9	16.3	79.6	12.3			32	32.0	17.698	35.501	5.53	0.34	25.731	0.085	1516.	10.7						
6.8	20.3	40.9	16.2	80.6	12.3			34	33.9	17.576	35.532	5.53	0.34	25.785	0.089	1516.	10.8						
6.8	20.2	41.8	16.1	81.5	12.4			36	36.0	17.400	35.580	5.40	0.34	25.865	0.093	1515.	10.8						
6.8	20.0	41.8	16.1	81.5	12.4			38	38.0	17.098	35.561	5.33	0.31	25.923	0.098	1514.	11.0						
6.8	19.9	41.8	15.9	81.5	12.4			40	39.9	16.688	35.552	5.25	0.27	26.013	0.102	1513.	10.9						
8.8	19.8	42.8	15.9	83.5	12.5			42	42.0	16.271	35.590	5.19	0.20	26.140	0.106	1512.	10.5						
8.8	19.7	43.8	15.8	84.4	12.5			44	44.0	16.052	35.577	4.96	0.18	26.180	0.109	1511.	9.8						
9.7	19.6	43.8	15.7	84.4	12.5			46	45.9	15.473	35.502	4.89	0.17	26.255	0.113	1509.	8.9						
9.7	19.3	43.8	15.5	86.4	12.5			48	48.0	15.007	35.422	4.80	0.16	26.297	0.116	1508.	7.7						
10.7	19.2	44.7	15.4	87.3	12.5			50	50.0	14.929	35.412	4.77	0.16	26.306	0.120	1508.	6.7						
10.7	19.1	45.7	15.3	89.2	12.5			52	52.0	14.800	35.389	4.70	0.16	26.316	0.123	1507.	6.3						
10.7	19.0	45.7	15.2	91.2	12.5			54	54.0	14.509	35.323	4.69	0.15	26.329	0.127	1506.	6.0						
11.7	18.8	45.7	15.1	92.1	12.4			56	56.0	13.891	35.189	4.81	0.15	26.357	0.130	1504.	6.1						
11.7	18.8	46.7	14.8	94.1	12.4			58	58.0	13.535	35.137	4.86	0.15	26.391	0.133	1503.	6.5						
12.7	18.7	46.7	14.6	95.0	12.4			60	60.0	13.213	35.090	4.90	0.16	26.420	0.137	1502.	6.7						
13.6	18.7	47.6	14.5	95.0	12.3			62	62.0	12.868	35.034	4.99	0.16	26.446	0.140	1501.	6.8						
14.6	18.6	47.6	14.4	96.0	12.3			63	63.9	12.728	35.029	4.97	0.16	26.470	0.143	1500.	6.5						
15.6	18.5	47.6	14.2	97.9	12.3			65	66.0	12.722	35.077	4.86	0.15	26.509	0.146	1500.	6.1						
15.6	18.4	48.6	14.1	99.9	12.3			67	68.0	12.769	35.126	4.83	0.14	26.537	0.149	1501.	5.7						
16.6	18.3	48.6	14.0	101.8	12.3			69	70.0	12.762	35.146	4.84	0.13	26.554	0.152	1501.	5.7						
16.6	18.2	49.6	13.9	102.8	12.3			71	71.9	12.768	35.151	4.85	0.13	26.557	0.155	1501.	6.0						
16.6	18.2	49.6	13.8	104.7	12.2			73	74.0	12.776	35.161	4.83	0.13	26.563	0.158	1501.	6.6						
18.5	18.2	50.6	13.7	105.6	12.2			75	76.0	12.793	35.187	4.79	0.13	26.580	0.161	1501.	7.3						
19.5	18.2	50.6	13.6	107.6	12.2			77	78.1	12.725	35.248	4.78	0.13	26.641	0.164	1501.	7.7						
21.4	18.2	51.5	13.5	108.5	12.1			79	80.0	12.443	35.244	4.76	0.14	26.693	0.167	1500.	7.8						
23.4	18.2	51.5	13.4	108.5	12.1			81	82.0	12.313	35.295	4.58	0.15	26.759	0.169	1500.	7.5						
24.3	18.1	52.5	13.3	110.5	12.0			83	84.0	12.335	35.362	4.46	0.17	26.806	0.172	1500.	6.7						
24.3	18.1	52.5	13.2	112.4	12.0			85	86.1	12.344	35.369	4.42	0.18	26.810	0.174	1500.	5.5						
25.3	17.9	53.5	13.1	114.3	12.0			87	87.9	12.345	35.370	4.38	0.18	26.810	0.177	1500.	4.1						
26.3	17.8	54.4	13.1	117.2	12.0			89	90.0	12.343	35.369	4.30	0.18	26.810	0.179	1500.	2.4						
26.3	17.7	54.4	13.0	120.1	12.0			91	92.1	12.340	35.368	4.25	0.18	26.810	0.182	1500.	0.7						
26.3	17.5	55.4	12.8	123.0	12.0			93	93.9	12.345	35.370	4.27	0.18	26.810	0.184	1500.	0.4						
26.3	17.5	55.4	12.8	123.9	12.0			95	96.0	12.342	35.369	4.33	0.18	26.810	0.187	1500.	0.3						
26.3	17.5	55.4	12.8	123.9	12.0			97	97.9	12.342	35.369	4.37	0.18	26.810	0.189	1500.	0.3						
27.3	17.3	56.4	12.7	127.8	12.0			99	100.1	12.348	35.371	4.31	0.18	26.810	0.192	1500.	0.4						

SHIP	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH	STA 87				DAY: 14				TIME: 1732			
OC	122	86	14 JUL 1982	1750	40°22.1'N	68°20.8'W	117	DEPTH	TEMP	DEPTH	TEMP	DEPTH	TEMP	DEPTH	TEMP	DEPTH	TEMP	DEPTH	TEMP
m	dbar	TEMP °C	SALIN	OXY	ATN	SIGT	DYHT	S SPD	DEPTH	TEMP	DEPTH	TEMP	DEPTH	TEMP	DEPTH	TEMP	DEPTH	TEMP	DEPTH
			pau	ml/l	m ⁻¹	gm/cm ³	10m ² /s ²	m/s	(m)	(°C)	(m)	(°C)	(m)	(°C)	(m)	(°C)	(m)	(°C)	(m)
100	101.2	12.350	35.371	4.29	0.19	26.810	0.193	1500.	0.0	22.0	30.2	18.5	59.3	15.5	101.8	13.0			
101	102.0	12.350	35.371	4.28	0.18	26.810	0.194	1500.	1.0	22.0	31.1	18.4	60.2	15.4	102.8	13.0			
102	103.0	12.349	35.371	4.32	0.18	26.810	0.196	1500.	1.9	22.0	32.1	18.4	61.2	15.4	103.7	13.0			
103	104.0	12.349	35.371	4.33	0.18	26.810	0.197	1500.	2.9	22.0	32.1	18.3	62.2	15.3					
104	105.0	12.348	35.371	4.33	0.18	26.810	0.198	1500.	3.9	21.9	33.1	18.3	62.2	15.3					
105	106.0	12.349	35.371	4.31	0.18	26.810	0.199	1500.	4.9	21.8	33.1	18.2	63.1	15.1					
106	107.0	12.351	35.373	4.28	0.19	26.811	0.201	1500.	4.9	21.7	34.1	18.1	63.1	15.1					
107	108.0	12.351	35.374	4.29	0.19	26.812	0.202	1500.	5.8	21.6	34.1	18.0	64.1	14.9					
108	109.0	12.351	35.374	4.29	0.18	26.812	0.203	1500.	6.8	21.5	35.0	17.9	64.1	14.8					
109	110.0	12.351	35.374	4.32	0.18	26.812	0.204	1500.	7.8	21.4	35.0	17.9	65.1	14.7					
110	111.0	12.351	35.374	4.35	0.18	26.812	0.206	1500.	7.8	21.3	35.0	17.8	65.1	14.6					
111	112.0	12.351	35.373	4.32	0.18	26.812	0.207	1500.	8.8	21.2	36.0	17.7	66.0	14.5					
112	113.0	12.351	35.373	4.30	0.19	26.812	0.208	1500.	8.8	21.1	36.0	17.7	67.0	14.3					
113	114.0	12.351	35.374	4.29	0.18	26.812	0.209	1500.	9.7	20.9	37.0	17.6	67.0	14.1					
114	115.0	12.352	35.374	4.28	0.19	26.812	0.211	1500.	9.7	20.9	37.9	17.5	68.0	14.1					
115	116.0	12.352	35.374	4.25	0.19	26.812	0.212	1500.	10.7	20.8	38.9	17.5	68.0	13.9					
116	117.0	12.352	35.374	4.25	0.19	26.812	0.213	1500.	11.7	20.8	38.9	17.4	69.0	13.8					
117	118.1	12.352	35.374	4.29	0.18	26.812	0.215	1500.	12.7	20.7	39.9	17.3	69.9	13.7					
118	118.8	12.351	35.374	4.26	0.18	26.812	0.215	1500.	12.7	20.6	39.9	17.2	70.9	13.6					
									14.6	20.6	40.9	17.1	70.9	13.5					
									15.6	20.5	40.9	17.1	71.9	13.5					
									15.6	20.4	41.8	17.0	73.8	13.4					
									16.6	20.3	41.8	16.9	74.8	13.4					
									17.5	20.3	41.8	16.8	76.7	13.4					
									18.5	20.2	41.8	16.8	77.7	13.4					
									18.5	20.1	42.8	16.7	78.6	13.4					
									19.5	19.9	43.8	16.7	79.6	13.4					
									19.5	19.9	43.8	16.5	80.6	13.3					
									20.4	19.8	44.7	16.5	80.6	13.3					
									20.4	19.7	46.7	16.5	81.5	13.3					
									21.4	19.6	46.7	16.5	82.5	13.4					
									22.4	19.5	47.6	16.4	84.4	13.3					
									22.4	19.5	48.6	16.4	84.4	13.3					
									22.4	19.4	49.6	16.4	85.4	13.2					
									23.4	19.4	50.6	16.3	85.4	13.2					
									24.3	19.4	50.6	16.2	87.3	13.2					
									24.3	19.3	51.5	16.2	88.3	13.2					
									25.3	19.2	51.5	16.2	88.3	13.2					
									25.3	19.2	52.5	16.1	89.2	13.2					
									26.3	19.1	52.5	16.0	90.2	13.2					
									26.3	19.1	53.5	15.9	91.2	13.2					
									27.3	19.0	53.5	15.9	92.1	13.2					
									27.3	18.9	55.4	15.9	93.1	13.2					
									27.3	18.8	55.4	15.8	94.1	13.2					
									28.2	18.7	55.4	15.7	96.0	13.1					
									28.2	18.7	56.4	15.6	96.0	13.0					
									29.2	18.6	57.3	15.6	97.0	13.0					
									29.2	18.6	57.3	15.5	98.9	13.0					
									29.2	18.5	59.3	15.5	100.8	13.0					

Appendix II

Manufacturers' specifications for instruments used on R/V OCEANUS Cruise 122.
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 μA	± 2 nA	0.5 nA
	Light	0-4.50 v	± 0.1 v	0.01 v
XBT*	T-4	0-460 m	$\pm 0.1^\circ\text{C}$, $\pm 2\%$ depth	0.01°C, 0.65 m
	T-5	0-1830 m	$\pm 0.1^\circ\text{C}$, $\pm 2\%$ depth	0.01°C, 0.65 m
	T-6	0-460 m	$\pm 0.1^\circ\text{C}$, $\pm 2\%$ depth	0.01°C, 0.65 m
	T-7	0-760 m	$\pm 0.1^\circ\text{C}$, $\pm 2\%$ depth	0.01°C, 0.65 m
	T-10	0-200 m	$\pm 0.1^\circ\text{C}$, $\pm 2\%$ depth	0.01°C, 0.65 m
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	$\div 20 = P$ (dbars)
3	Pressure MSB		
4	Temperature LSB	0-65535	$\div 2000 = T$ ($^{\circ}\text{C}$)
5	Temperature MSB		
6	Conductivity LSB	0-65535	$\div 1000 = C$ (mmho)
7	Conductivity MSB		
8	Sign		LSB = pressure negative 2nd = temperature negative 3rd = oxygen temperature negative 4th-8th = zero
9	Oxygen current	0-4096	$\div 2000 = \text{current}$ (μA)
10	(12 bits only)		
11	Oxygen temperature	0-255	$\times 256 \div 2000 = T$ ($^{\circ}\text{C}$)
12,13	Transmission	0-4096	$\times 32 \div 4096 = \text{TR}$ (volts)