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HYDROGRAPHY OF NEW ENGLAND SHELF AND SLOPE

DATA REPORT FOR R/V OCEANUS CRUISE 159, NOVEMBER 13-20, 1984

by

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HYDROGRAPHY OF NEW ENGLAND SHELF AND SLOPE

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INTRODUCTION

This report presents hydrographic data obtained on R/V OCEANUS Cruise 159 from November 13-20, 1984. 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 68°00' W., and longitude 71°00'W.) as part of a study of currents and sediment transport in this region.

During the R/V OCEANUS cruise 159, a total of 44 hydrographic profiles were obtained, 41 by means of a conductivity-temperature-depth (CTD) profiler and three by means of expendable bathythermographs (XBTs). Stations are numbered sequentially; station information is tabulated in table 1. The stations were arranged into six sections. Three sections (nos. 1, 2 and 4) followed the same transect along ~70°W with stations approximately 10km apart (fig. 1a). A meandering shelf/slope front crossed these transects. A fourth section (no. 3) began in a water depth of 90 m in the Great South Channel, crossed the shelf break and ended in water depths between 1000 to 2000 m (fig. 1a). Section 5 was located near 70°30'W and section 6 was along long. 70°55'W.

OBJECTIVES

The sections were designed to aid in the interpretation of currents, temperature, pressure, and light transmission measured by a moored instrument array deployed across the slope at 70°W. long. (fig. 1b and Butman, 1986). One hydrographic section (7 stations) was made along the transect of the Shelf Edge Exchange Program (SEEP) experiment (Csanady, 1985; Csanady and others, 1987) which had six moorings deployed along 70°55'W during the time of OCEANUS 159.

STATION PROCEDURES

At each CTD station, the ship held position and a surface-water sample was obtained, using a bucket sampler, for analysis of nutrients. The CTD was lowered and held slightly below the surface while a 5-liter Niskin bottle was attached 5 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. Samples for nutrient analysis (PO_4, SiO_4, NO_3, NO_2, and NH_3) were obtained at 25 stations; the analysis (see table 3 and Appendix III) was performed later at the Woods Hole Oceanographic Institution (WHOI), Woods Hole, Mass. Approximately two liters of sea water were withdrawn for

determination of suspended matter concentration. Suspended-matter concentration was measured at 23 stations by filtering the seawater through preweighed, paired 0.45-μm Millipore filters, rinsing salt off with distilled water and freezing at sea. The filters were air dried under a laminar flow hood, and reweighed in the laboratory during January 1987. The suspended matter and the corresponding light attenuation coefficient at the sample depth are listed in table 4. Meteorological observations during the cruise (obtained from the ship's deck log) are listed in tables 5 and 6.

INSTRUMENT DESCRIPTION

The CTD profiler (Neil Brown Instrument Systems, Mark III) was modified to measure oxygen and light transmission. A scan of data (conductivity, temperature, pressure, oxygen current, oxygen temperature, and light transmission) was obtained at a rate of 32 times each second. Conductivity was measured with a miniature four-electrode alumina ceramic cell (Neil Brown Instrument Systems, model 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 211-35-440). The dissolved oxygen was computed from a time average measurement (1.024 s) of the current and internal temperature of a polargraphic membrane (Beckman model 147737). Light transmission was measured using a Sea Tech 100-cm path- length transmissometer (Bartz and others, 1978) mounted horizontally inside the CTD cage. The light source was a light-emitting diode that has a wavelength of 660 nm and a beam diameter of 15 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).

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 Gifft echo sounder.

INSTRUMENT CALIBRATION

Temperature time-lag

The platinum resistance thermometer time constant (Tlag = 0.125 s) was selected to minimize density inversions in regions of strong thermal gradients. Since the temperature sensor had a slower response then 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:

$y(t) = y(t-dt) \cdot W0 + x(t) \cdot W1$

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

$$W0 = e^{-dt/Tlag}$$

$$W1 = 1 - W0$$

A precruise laboratory calibration of the CTD temperature had been done on January 5, 1982 at the WHOI. At that time the temperature offset (calibration bath minus CTD) ranged between -0.0081°C at 5°C 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 sigma-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). 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. On this basis this laboratory calibration no correction was made to the salinities reported here.

Oxygen

The oxygen sensor malfunctined and no reliable oxygen values were obtained from the CTD unit.

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

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

where TR_{cw} is the voltage measured in clear water. The TR_{cw} value for the 100-cm transmissometer (S/N 33) drifted during the cruise. The value of TR_{cw} was the maximum transmission voltage recorded at selected reference stations that were in deep water (water depths >500 m). These reference stations (1, 11, 12, 13, 31, 33, 35 and 37) had maximum transmission at depths greater than 200 m where "clear" slope water is often found. The TR_{cw} value at station 1 was increased by 0.05 volts so that the rate of change in TR_{cw} per hour from station 1 to 11 (same location) was the same as the rate of change in TR_{cw} per hour between station 2 and 10 (same location at a water depth less than 200m and just upslope of stations 1 and 11). The TR_{cw} values for stations in between the reference stations were interpolated from the graph in figure 3 and are listed in table 2. A calibration curve for converting light attenuation coefficient to suspended matter concentration (mg/L) is nearly linear for data obtain during this cruise (figure 4 and table 4).

Accuracy

Based on calibrations, the CTD temperature and salinity data are accurate to ±0.01°C, and 0.01 psu. 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 ±0.04 m^{-1}. Because there is some uncertainity 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 the downcast and upcast were subsampled (usually every 100 to 200 points), listed, and plotted to check instrument performance. Spurious points were identified and replaced with the previous good value using range filters for each variable. The ranges were typically 1 variable unit except for transmission, which was 0.05-0.10 volts. The conductivity and pressure data were time lagged to correct for the time constant of the temperature sensor (see above), and then the pressure was filtered to obtain a monotonically increasing series of water depths. Any density inversions not deleted by the range filter were identified by a point-editing program and replaced by interpolating between adjacent values of density. The editor recomputed the salinity from the interpolated values of density and the original temperature. Any spurious points in light transmission and oxygen not already deleted by the range filter were deleted using the point editor. The pressure data for stations 4, 5, 8, 10, 12, 15, 16, and 17 often stuck and did not update for several seconds. This instrument failure seemed to be associated with heavy seas (see meteorological data in table 4). A special "sticky filter" was used to delete all successive data points which did not change by at least 0.05 dbars or 0.001° C. The data were averaged over 2-dbar pressure intervals; at about 10 dbar above the bottom, this was changed to a 1-dbar average. Stations 4, 5, 8, 10, 12, 15, 16, and 17 have few points (occasionally no points) in the 2-dbar average at some depths (see Appendix I) because of the pressure malfunctions. The hydrographic sections presented in this report were contoured using 2-dbar averaged data. The data have been submitted to the National Oceanographic Data Center (NODC), Whitehaven St., NW, Washington, D. C., 20235.

DATA PRODUCTS

Vertical sections

The hydrographic data are presented in several ways. Vertical sections are shown in figures 5-10. The sections are numbered as OC159-N, where N is the section number (see fig. 1 and column 2 of table 1). The station numbers for each section are labeled across the top along with the station type (C = CTD). The surface value of the contoured variable is printed below. The vertical scale (1 cm = 40 m) is the same for all sections. 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.

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 attenuation cofficient 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 (one cell centered on the grid point and two 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 provision 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. A tension parameter of 10 was used in contouring the sections presented here.

Horizontal sections

Horizontal sections of temperature, salinity, sigma-t, and light attenuation were contoured for the 10-, 50-, 75-, and 100-dbars pressure surfaces (figs 11-15). Vertical sections 1, 2, and 4 show possible "calving" or "interleaving" (Wright, 1976; Voorhis and others, 1976) at about 75 dbars and horizontal sections at 75-dbars were quite variable in the vicinity of stations 1, 11, 19 (at site SE, fig. 1b) and stations 2, 10, and 20 (at site

SF, fig. 1b) near the shelf/slope front (fig. 1a). Surface values of phosphate, silicate, nitrate and ammonia (contoured in figure 12) were quite variable at stations 1, 11, and 9 with the exception of ammonia. Because of the sparse data, all horizontal sections were contoured by hand and data from all stations at the same location were averaged.

TS diagrams

Plots of temperature vs. salinity (TS plots, figs. 16-25) 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.

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 26-66. For the Brunt-Vaisala frequency, density was determined using the 1980 equation of state (Millero and others, 1980); and the gradient of the specific volume anomaly was estimated from a least squares fit of a straight line to nine observations (±8 dbar) centered about the specified depth. The Brunt-Vaisala frequency was not computed for the first four average depths nor for the last four average depths; the magnitudes of N listed at these depths are the same as the Brunt-Vaisala frequency for the fifth and fifth-to-last depths, respectively. The different symbols used to distinguish variables are shown on each variable axis. The units of salt are practical salinity units (psu) and are defined by Lewis (1980).

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, and no values are listed due to the malfunction of the oxygen sensor, 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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Table 1. Hydrographic stations made on R/V OCEANUS Cruise 159, November 13-20, 1984. The letter designation in the station column indicates a current mooring shown in figure 1b.

Station	Section	Date (EST)	Time	Latitude (N.)	Longitude (W.)	Water Depth (m)	Type
1 ~SE	1	NOV 15	2109	39° 53.80'	70° 03.70'	550*	CTD
2 SF	1	NOV 15	2235	39° 57.94'	70° 00.84'	183*	CTD
3	1	NOV 15	2358	40° 05.07'	69° 59.81'	143*	CTD
4 T	1	NOV 16	0033	40° 10.01'	69° 58.45'	105	CTD
5	2	NOV 16	1244	40° 30.03'	69° 52.76'	70	CTD
6	2	NOV 16	1350	40° 22.94'	69° 54.94'	80	CTD
7	2	NOV 16	1450	40° 16.85'	69° 56.54'	88	CTD
8 T	2	NOV 16	1600	40° 10.84'	69° 58.14'	100	CTD
9	2	NOV 16	1716	40° 04.64'	70° 00.17'	145	CTD
10 SF	2	NOV 16	2025	39° 57.70'	70° 00.94'	198*	CTD
11 ~SE	2	NOV 16	2126	39° 53.53'	70° 04.17'	578*	CTD
12 SG	2	NOV 16	2319	39° 47.95'	70° 05.40'	1175	CTD
13	3	NOV 17	1905	39° 57.58'	68° 33.51'	2200	CTD
14 SA	3	NOV 17	2038	40° 03.48'	68° 33.34'	900	CTD
15	3	NOV 17	2233	40° 08.27'	68° 35.63'	193	CTD
16	3	NOV 17	2341	40° 12.89'	68° 37.78'	148	CTD
17	3	NOV 18	0045	40° 16.48'	68° 39.18'	110	CTD
18	3	NOV 18	0156	40° 22.14'	68° 41.13'	90	CTD
19 ~SE	4	NOV 18	1703	39° 54.15'	70° 03.59'	470	CTD
20 SF	4	NOV 18	1812	39° 58.03'	70° 00.83'	175	CTD
21	4	NOV 18	1916	40° 05.01'	69° 59.77'	143	CTD
22 T	4	NOV 18	2010	40° 10.98'	69° 57.54'	100	CTD
23	4	NOV 18	2111	40° 17.04'	69° 56.28'	87	CTD
24	4	NOV 18	2207	40° 23.03'	69° 54.76'	79	CTD
25	4	NOV 18	2307	40° 30.03'	69° 52.79'	70	CTD
26	5	NOV 19	0403	40° 25.10'	70° 25.11'	80	CTD
27	5	NOV 19	0509	40° 16.17'	70° 26.55'	103	CTD
28	5	NOV 19	0612	40° 7.61'	70° 28.91'	120	CTD
29	5	NOV 19	0652	40° 3.67'	70° 30.09'	200	CTD
30	5	NOV 19	0825	39° 58.23'	70° 31.02'	605	CTD
31		NOV 19	1122	39° 48.64'	70° 00.72'	1370	CTD
32		NOV 19	1231	39° 48.50'	69° 59.40'	1055	XBT
33		NOV 19	1242	39° 48.45'	69° 58.56'	1165	CTD
34		NOV 19	1341	39° 49.60'	70° 00.08'	1065	XBT

*2m greater than greatest depth of CTD cast

Table 1. Hydrographic stations made on R/V OCEANUS Cruise 159, November 13-20, 1984. The letter designation in the station column indicates a current mooring shown in figure 1b. - Continued

Station	Section	Date (EST)	Time	Latitude (N.)	Longitude (W.)	Water Depth (m)	Type
35		NOV 19	355	39° 50.95'	70° 01.83'	1085	CTD
36		NOV 19	1404	39° 50.00'	70° 03.48'	1065	XBT
37		NOV 19	1510	39° 48.89'	70° 05.57'	1140	CTD
38	6	NOV 19	1950	39° 58.23'	70° 55.56'	375	CTD
39	6	NOV 19	2102	40° 03.42'	70° 54.94'	197*	CTD
40	6	NOV 19	2159	40° 09.53'	70° 54.94'	137	CTD
41	6	NOV 19	2313	40° 19.03'	70° 54.96'	103	CTD
42	6	NOV 20	0200	40° 30.20'	71° 00.82'	79	CTD
43	6	NOV 20	0325	40° 36.83'	70° 55.41'	71	CTD
44	6	NOV 20	0500	40° 50.10'	70° 55.30'	55	CTD

*2m greater than greatest depth of CTD cast

Table 2. Measured and interpolated values of TR_{cw}, the normalization for the transmissometer voltage, for OCEANUS cruise 159, November 13-20, 1984.

Sta.	Reference TR_{cw}	Interpolated TR_{cw}	Sta.	Reference TR_{cw}	Interpolated TR_{cw}
1	3.81	--	22		4.34
2		3.83	23		4.35
3		3.86	24		4.35
4		3.87	25		4.36
5		4.03	26		4.38
6		4.04	27		4.38
7		4.05	28		4.38
8		4.06	29		4.37
9		4.07	30		4.38
10		4.12	31	4.38	--
11	4.14	--	33	4.41	--
12	4.14	--	35	4.39	--
13	4.23	--	37	4.42	--
14		4.24	38		4.44
15		4.25	39		4.45
16		4.26	40		4.46
17		4.26	41		4.46
18		4.26	42		4.47
19		4.33	43		4.48
20		4.33	44		4.48
21		4.34			

Table 3. Nutrient data for R/V OCEANUS Cruise 159, November 13-20, 1984.

Station	depth (dbar)	$P-PO_4$ (µgat/L)	$Si-SiO_2$ (µg at/L)	$N-NO_3$ (µg at/L)	$N-NO_2$ (µg at/L)	$N-NH_3$ (µg at/L)
5	0	0.40	5.3	1.5	0.36	0.38
	61	0.46	9.6	3.6	0.25	0.26
6	0	0.42	5.4	2.0	0.24	0.53
	72	0.55	10.8	5.1	0.16	0.12
7	0	0.40	3.8	1.4	0.21	0.65
	80	0.62	9.5	6.1	0.08	0.17
8	0	0.36	3.6	1.7	0.25	0.57
	91	0.45	5.3	5.2	0.12	0.17
9	0	0.36	3.4	1.8	0.28	0.24
	132	0.84	7.7	13.9	0.04	0.40
10	0	0.32	3.2	1.9	0.24	0.22
11	0	0.28	2.6	0.8	0.19	0.20
	570	0.26	2.0	1.0	0.10	0.30
13	0	0.29	2.1	0.5	0.05	0.27
14	0	0.23	1.7	0.0	0.00	0.27
15	0	0.57	3.8	3.3	0.15	0.15
16	0	0.99	2.5	2.2	0.14	0.48
17	0	0.74	3.6	4.5	0.35	0.32
18	0	0.74	4.4	4.4	0.26	0.45
19	0	0.53	4.4	2.3	0.24	0.18
	470	1.08	9.3	14.4	0.00	3.79
20	0	0.43	3.5	1.7	0.30	0.26
	169	1.11	9.6	19.9	0.02	0.13
21	0	0.54	4.0	2.2	0.34	0.42
	133	0.84	8.0	14.7	0.02	0.17
22	0	0.44	3.3	1.9	0.31	0.29
	92	0.29	3.0	2.4	0.09	0.30
23	0	0.52	4.4	2.2	0.28	0.43
	79	0.59	7.9	7.0	0.06	0.15
24	0	0.46	4.5	1.8	0.22	0.22
	71	0.50	8.9	3.9	0.15	0.32
25	0	0.52	5.8	1.8	0.62	0.24
	62	0.49	7.3	1.7	0.72	0.42

Table 3. Nutrient data for R/V OCEANUS Cruise 159, November 13-20, 1984 - Continued

Station	depth (dbar)	$P-PO_4$ (µgat/L)	$Si-SiO_2$ (µg at/L)	$N-NO_3$ (µg at/L)	$N-NO_2$ (µg at/L)	$N-NH_3$ (µg at/L)
26	0	0.49	5.3	1.6	0.82	0.24
	69	0.43	6.4	2.0	0.68	0.26
27	0	0.47	5.4	3.2	0.35	0.14
	94	0.50	5.6	5.5	0.02	0.19
28	0	0.38	3.6	2.5	0.26	0.33
	112	0.71	6.8	12.3	0.01	0.12
29	0	0.41	3.9	2.3	0.28	2.05?
	191	1.04	9.6	18.9	0.00	0.17
30	0	0.32	2.3	2.3	0.24	0.25
	605	0.93	9.0	13.0	0.00	0.27
31	0	0.34	3.2	1.7	0.34	0.58
33	0	0.42	4.0	2.1	0.25	0.47
35	0	0.34	3.1	1.5	0.28	0.25
37	0	0.31	3.3	2.1	0.31	0.39
38	0	0.25	2.5	1.4	0.26	0.64
	361	1.74	18.1	28.1	0.01	0.42
39	0	0.35	3.5	1.9	0.29	0.28
	189	1.26	11.0	22.1	0.01	0.14
40	0	0.35	3.4	2.1	0.29	0.22
	130	0.84	8.2	12.4	0.00	0.23
41	0	0.49	6.6	2.3	0.67	0.23
	95	0.60	9.5	5.8	0.16	0.20
42	0	0.50	5.7	2.0	0.75	0.35
	69	0.52	7.7	2.5	0.47	0.25
43	0	0.41	3.9	1.1	0.36	0.38
	64	0.57	9.3	2.5	0.30	0.29
44	0	0.72	5.3	3.2	0.44	0.90
	45	0.63	9.5	2.9	0.74	0.34

Table 4. Suspended matter concentration for water samples obtained on R/V OCEANUS Cruise 159, November 13-20, 1984.

Station	Water Depth (m)	Sample Depth (dbar)	Suspended Matter (mg/L)	Light Attenuation (1/m)
5	70	61	0.71	0.45
6	80	72	0.50	0.37
7	88	80	0.78	0.51
8	100	91	0.21	0.15
9	145	132	0.24	0.17
19	470	461	0.26	0.06
20	175	169	0.10	0.04
21	143	133	0.32	0.24
22	100	92	0.33	0.25
23	87	79	0.41	0.34
24	79	71	0.48	0.31
25	70	62	0.44	0.29
26	80	69	0.39	0.22
27	103	94	0.72	0.51
28	120	112	0.22	0.14
29	200	191	0.17	0.11
30	605	584	0.26	0.13
39	197	189	0.34	0.15
40	137	130	0.52	0.39
41	103	95	0.66	0.50
42	79	69	0.45	0.23
43	71	64	0.66	0.49
44	55	45	0.67	0.39

Table 5. Meteorological observations for R/V OCEANUS Cruise 159 obtained from ship's deck log. November 13-20, 1984 (See Table 6 for key to meteorological observations).

Date	Time EST	Wind		Sea			Air		Weather
		Dir	Force	Dir	Swell	Height	Pressure (mb)	Temp (°c)	
Nov. 13	2000	-	3-4	NW	1	-	1007	4.4	c
	2400	NNW	6	NNW	3	4	1007	4.4	o
Nov. 14	0400	NNW	6	NNW	4	5	1007	5.6	o
	0800	WNW	7-8	NW	3	5	1010	6.1	op
	1200	NW	7-8	NW	3	5	1011	6.7	o
	1600	NW	7-8	NW	3	4	1014	9.4	o
	2000	NW	8-9	NW	3	5	1018	10.0	bc
	2400	NW	7-8	NW	3	4	1022	10.0	bc
Nov. 15	0400	NW	7	NW	4	4	1024	10.0	b
	0800	NW	4-5	NW	4	4	1028	11.1	b
	1200	W	4	NW	1	3	1026	14.4	bc
	1600	SW	4	SW	1	2	--	15.0	bc
	2000	SSW	5	SW	1	3	1022	--	bc
	2400	SW	6	SW	3	4	1018	18.9	c
Nov. 16	0400	SW	8	SW	4	5	1015	16.7	o
	0800	SWxW	7-8	SW	3	5	1014	16.1	c
	1200	WSW	4	SW	3	4	1011	15.6	c
	1600	WSW	8	WSW	4	4	1009	13.3	c
	2000	W	8-9	WSW	3-6	5-6	1013	12.2	b
	2400	WxN	8	W	4	5	1014	10.6	bc
Nov. 17	0400	W	6-7	W	5	4	1014	10.6	c
	0800	W	6	W	4	4-5	1016	8.9	o
	1200	W	7	W	4	4	1015	10.0	o
	1600	WNW	7-8	WNW	4	4-5	1017	8.9	bc
	2000	WNW	7-8	WNW	4	5-6	1020	7.8	bc
	2400	WNW	7	WNW	4	5	1022	6.7	bc
Nov. 18	0400	W	5	W	3	3	1022	6.1	c
	0800	WNW	5-6	WNW	3	3-4	1025	6.7	c
	1200	NW	3	NW	1	3	1024	6.7	o
	1600	SSW	4	SW	2	3	1023	11.1	o
	2000	WSW	4	SW	1	2	1021	10.0	or
	2400	WSW	4-5	SW	1	3	1017	8.9	op
Nov. 19	0400	SW	5	SW	1	2	1014	7.8	d
	0800	NW	5	W	1	3	1013	8.3	od
	1200	NE	5-6	N	1	3	1012	7.8	op
	1600	N	6-7	NNE	1	3	1012	7.8	op
	2000	N	7	N	1	3-4	1016	5.6	o
	2400	N	5	N	1	3	1020	1.1	bc
Nov. 20	0400	NNW	5-6	NNW	1	3-4	1021	0.6	bc
	0800	NNW	6	NNW	1	3-4	1023	0.0	bc

Table 6. - 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

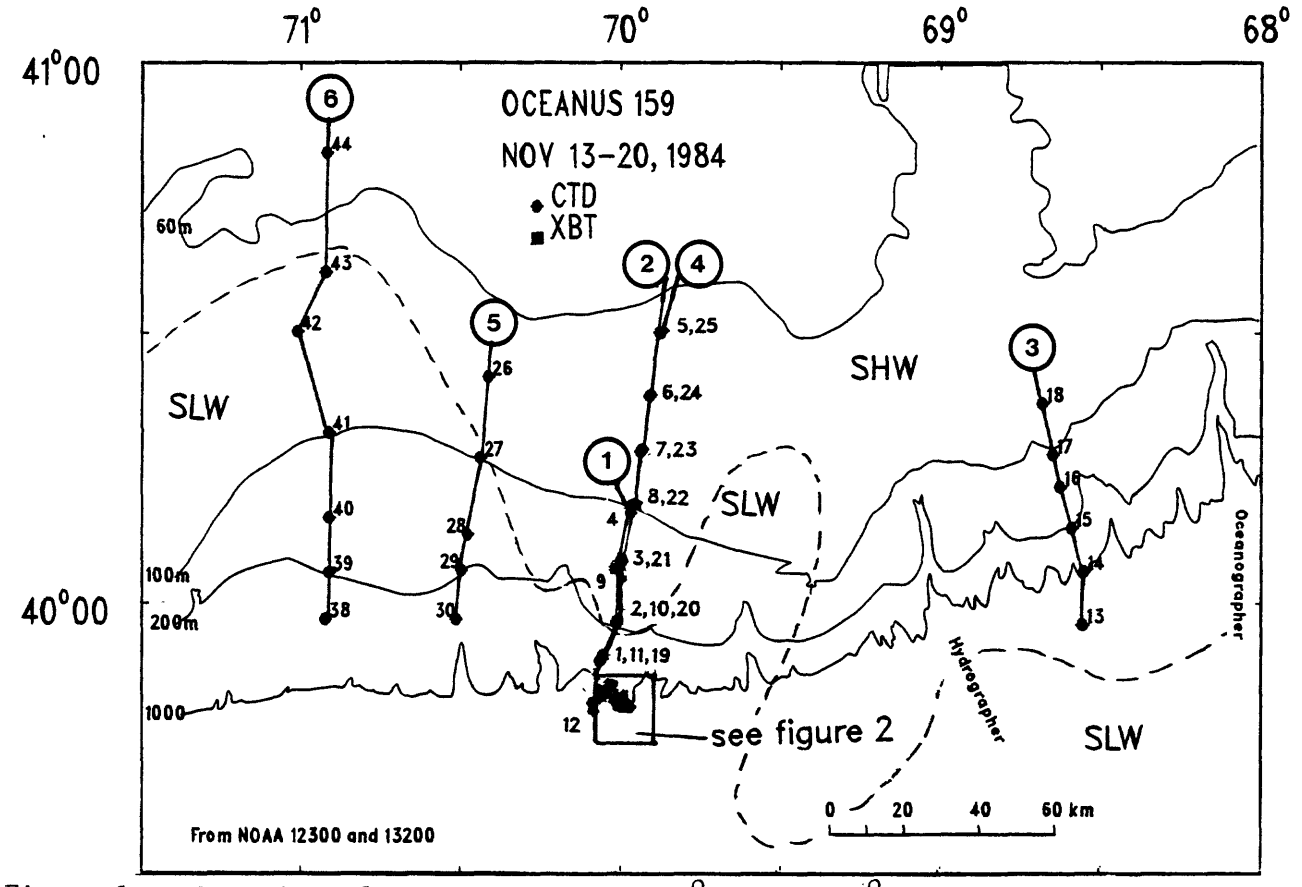


Figure 1a. Location of stations between 68° W. and 71° W. The circled numbers identify the sections shown in figures 5 to 10. The dashed line is the approximate location of the shelf/slope front for 16 November 1984.

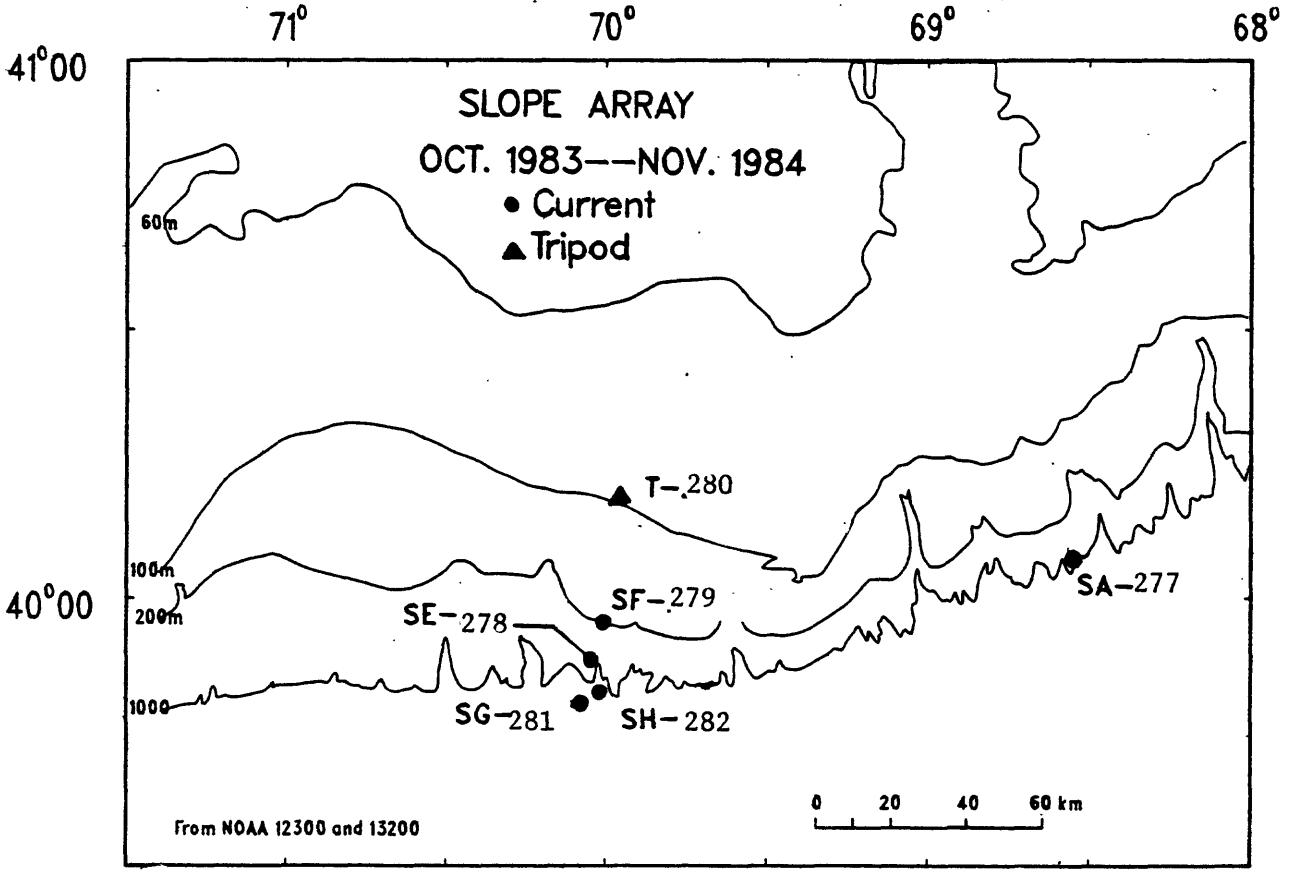


Figure 1b. Slope moored array. Stations are identified by letters. The three digit number following the station letter is the mooring number. Moorings 277-282 were recovered on OCEANUS 159.

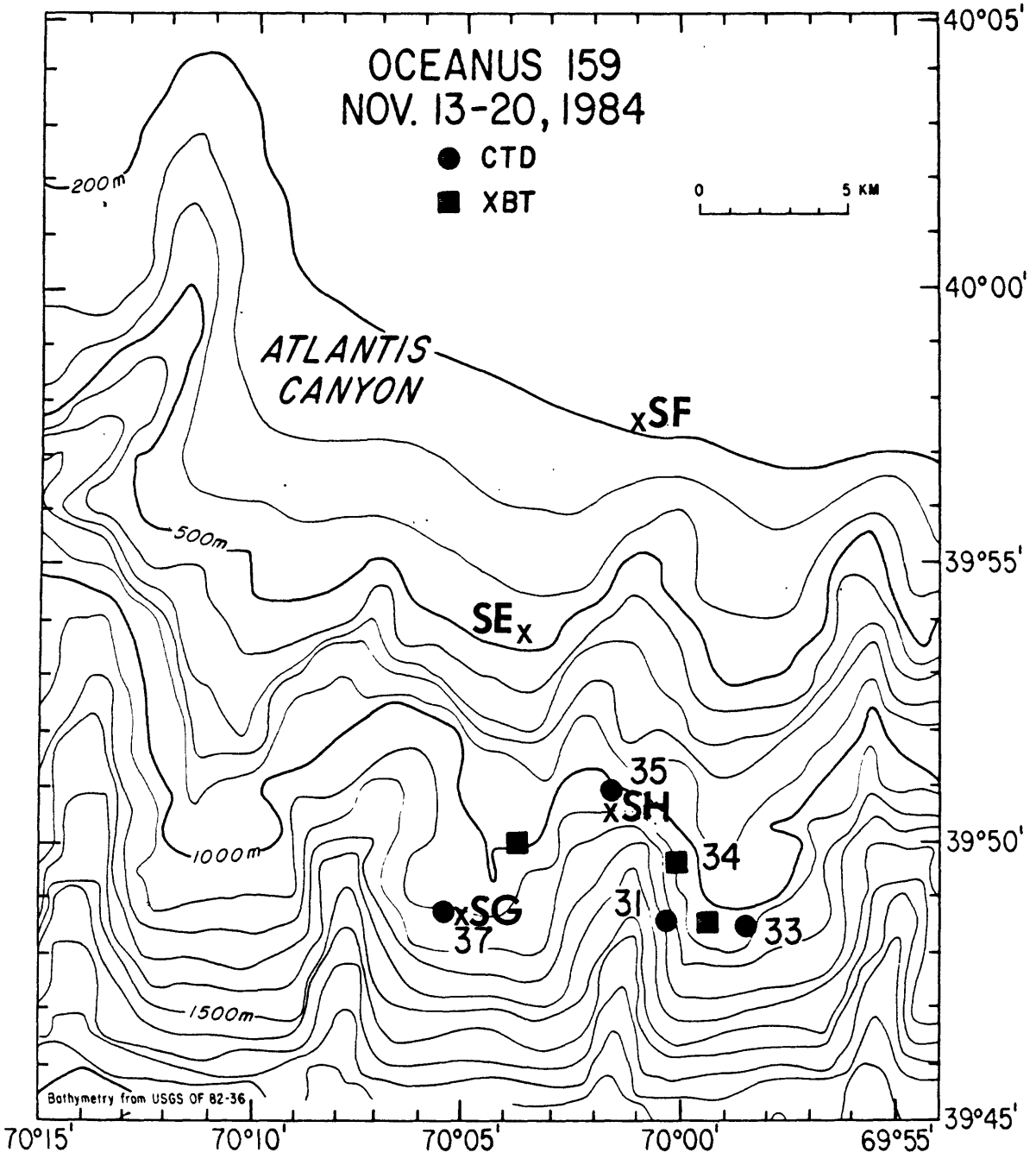


Figure 2. Detailed map showing the location of hydrographic stations east of Atlantis Canyon. The X's indicate the location of moored instrument arrays that are identified by two letters and also shown in figure 1b.

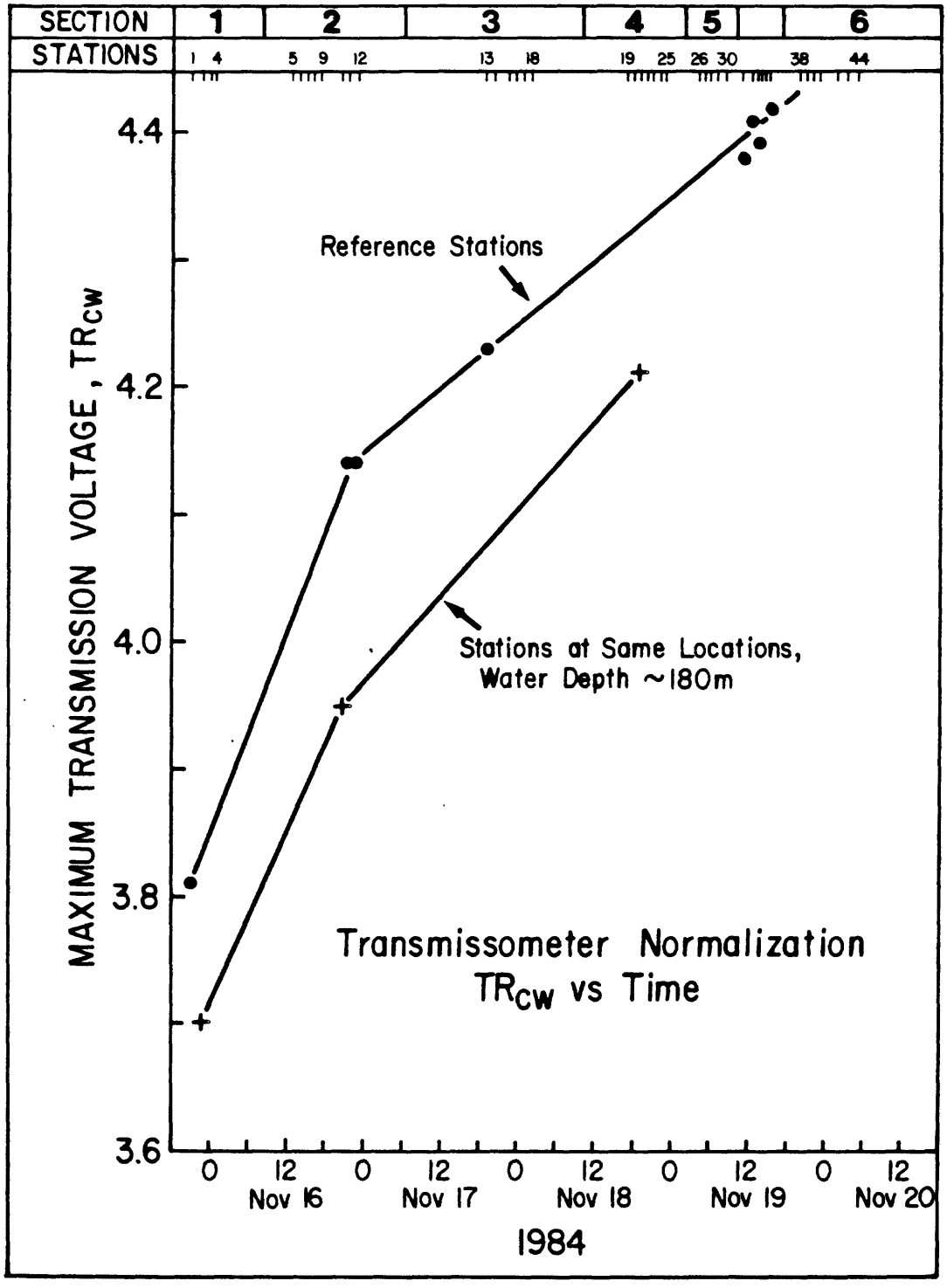


Figure 3. Maximum transmission voltage as a function of time. The reference stations are in water depths ranging from 578 to 2200 m and the maximum transmission voltage occurred at depths greater than 200 m in "clear" slope water. See text for discussion.

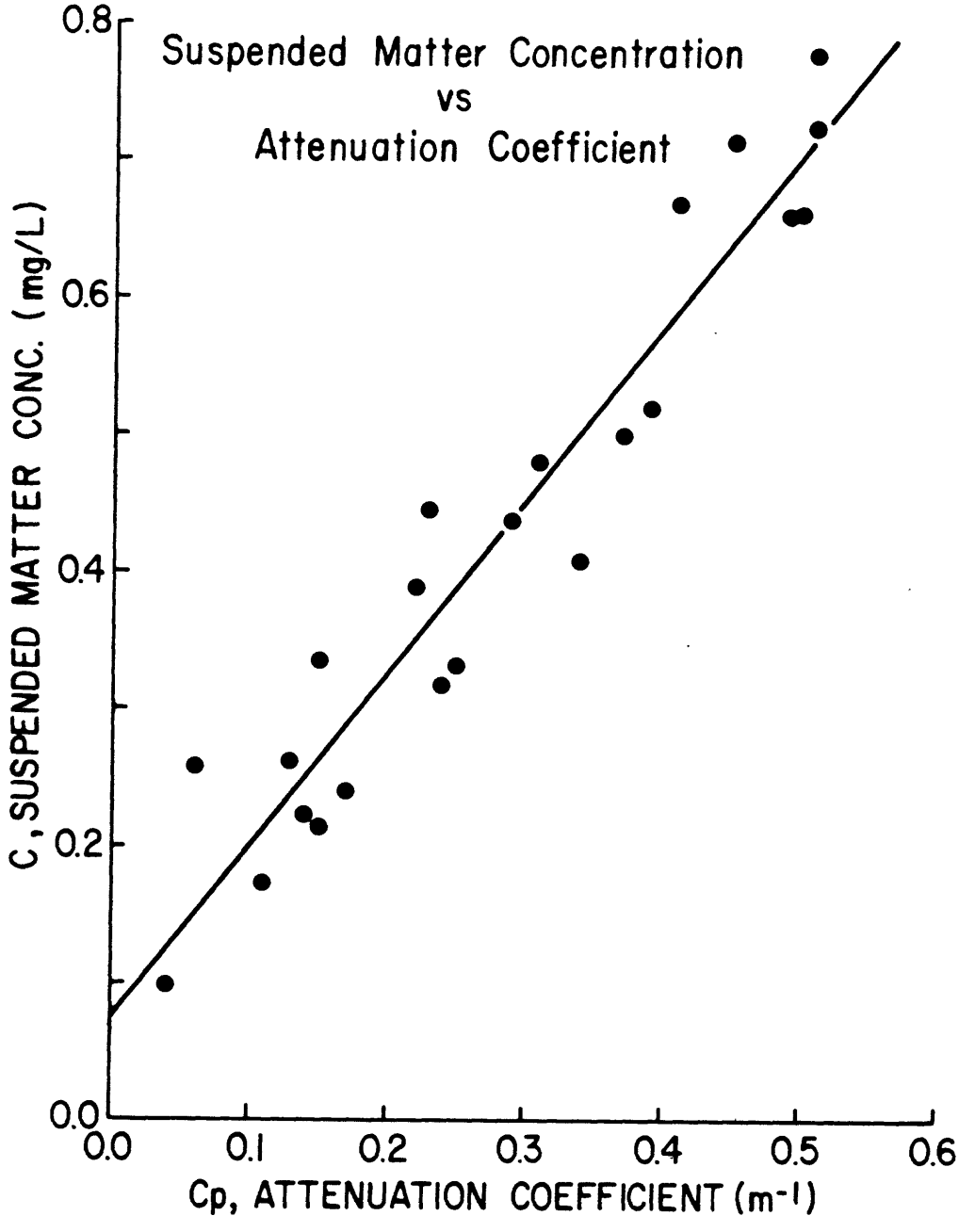
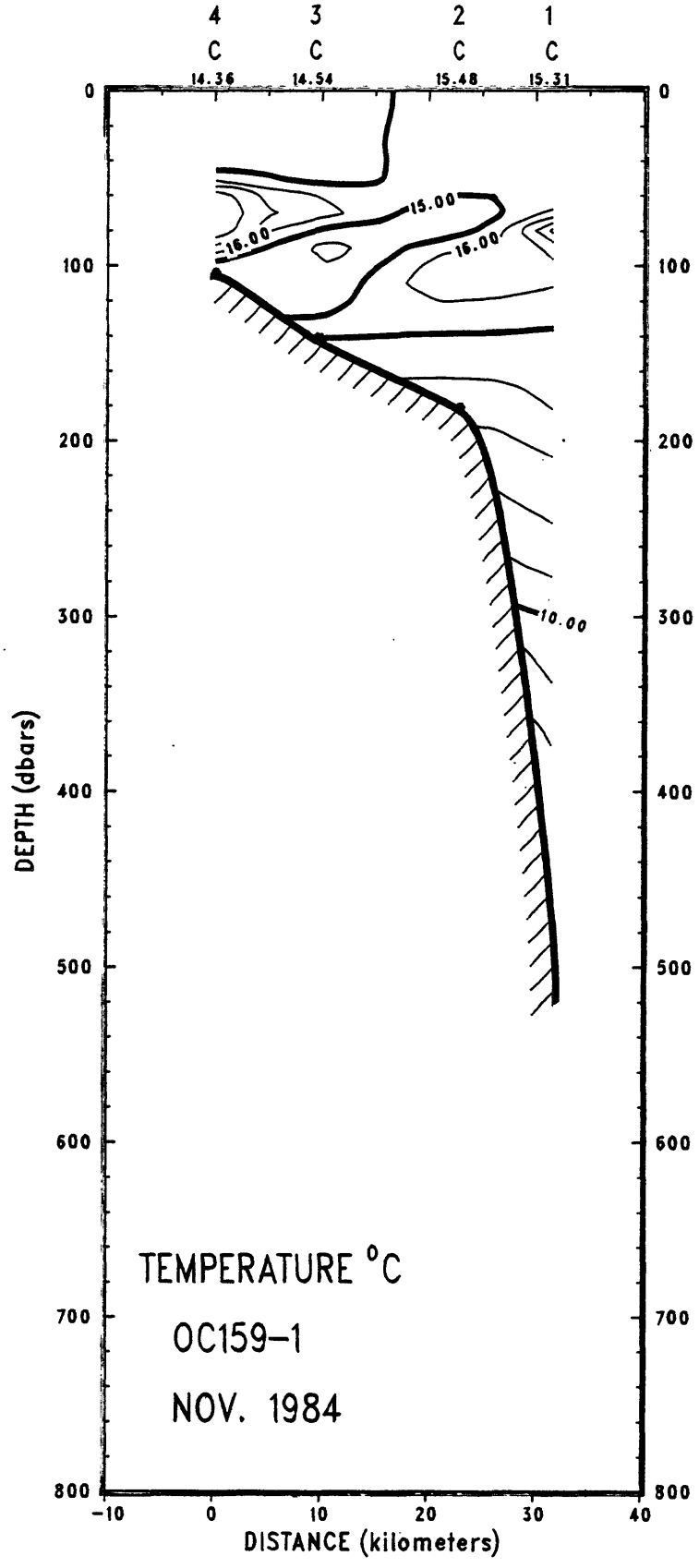
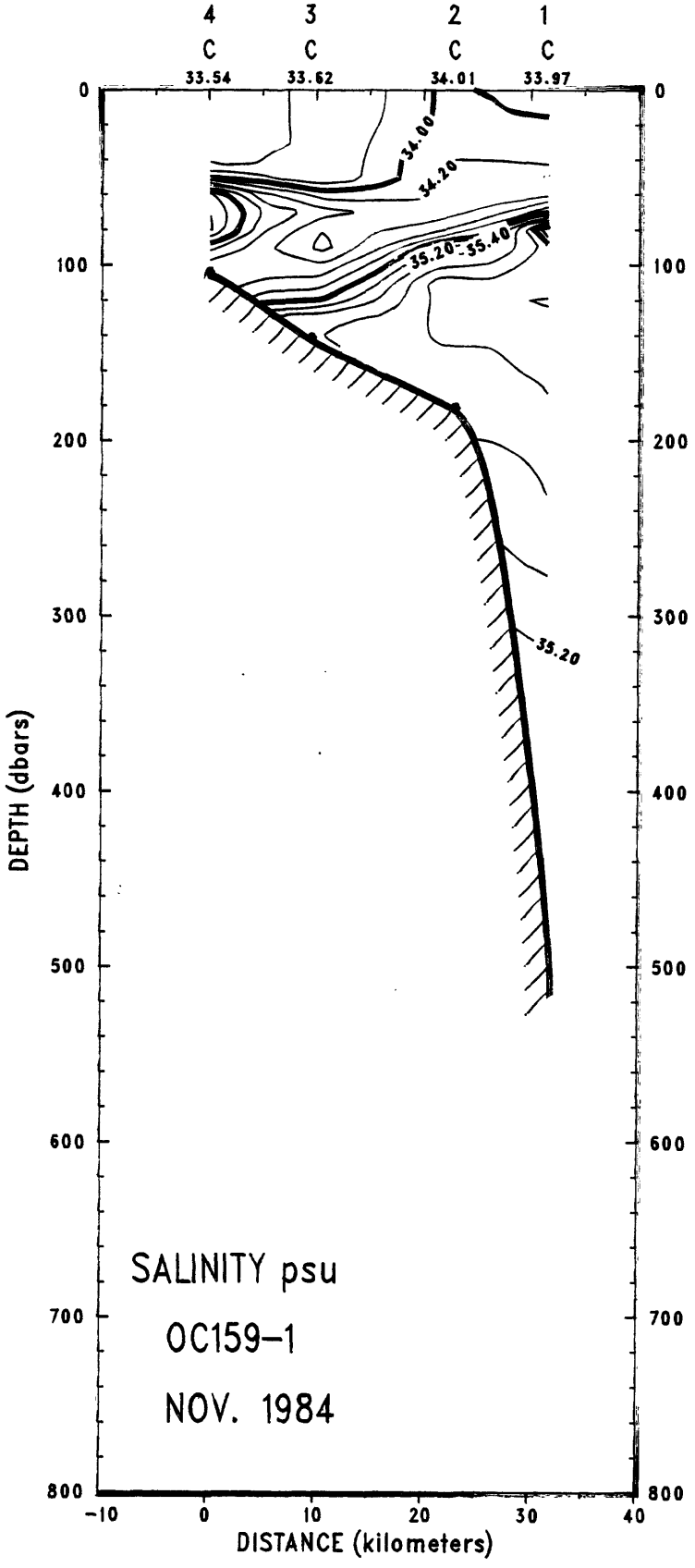


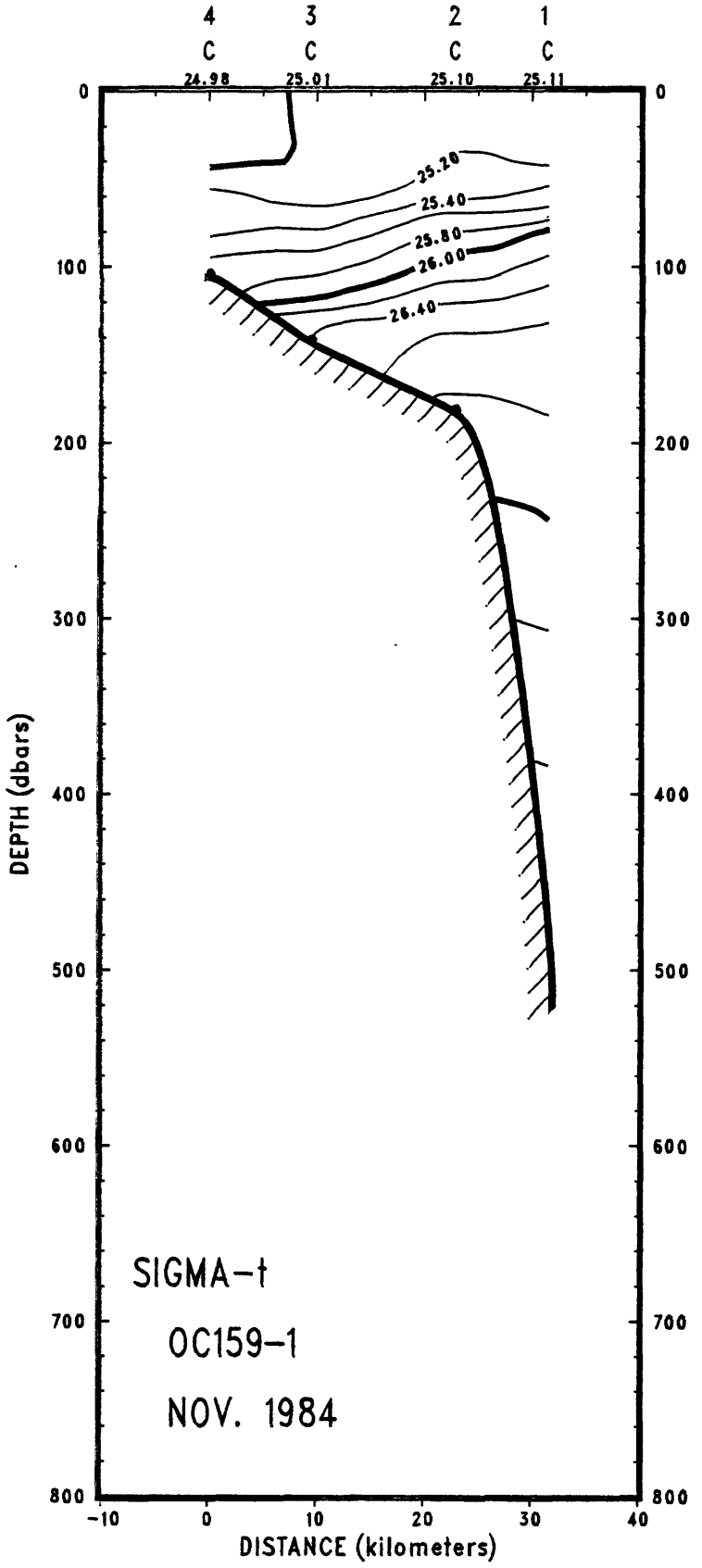
Figure 4. Calibration curve for converting values of the attenuation coefficient to suspended matter concentration. The equation for the straight line is $C = 1.26\ C_p + 0.076$ with a linear regression coefficient, r equal to 0.96

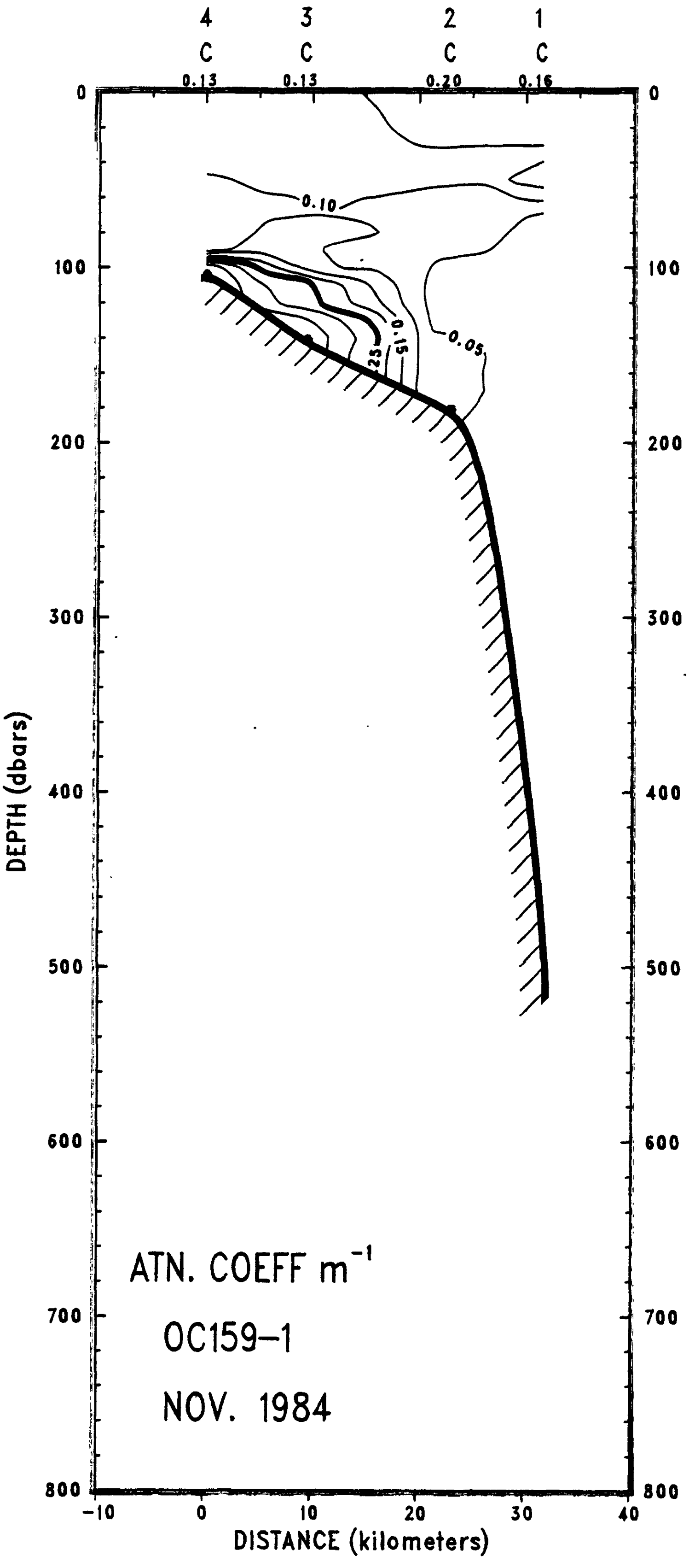
Vertical sections

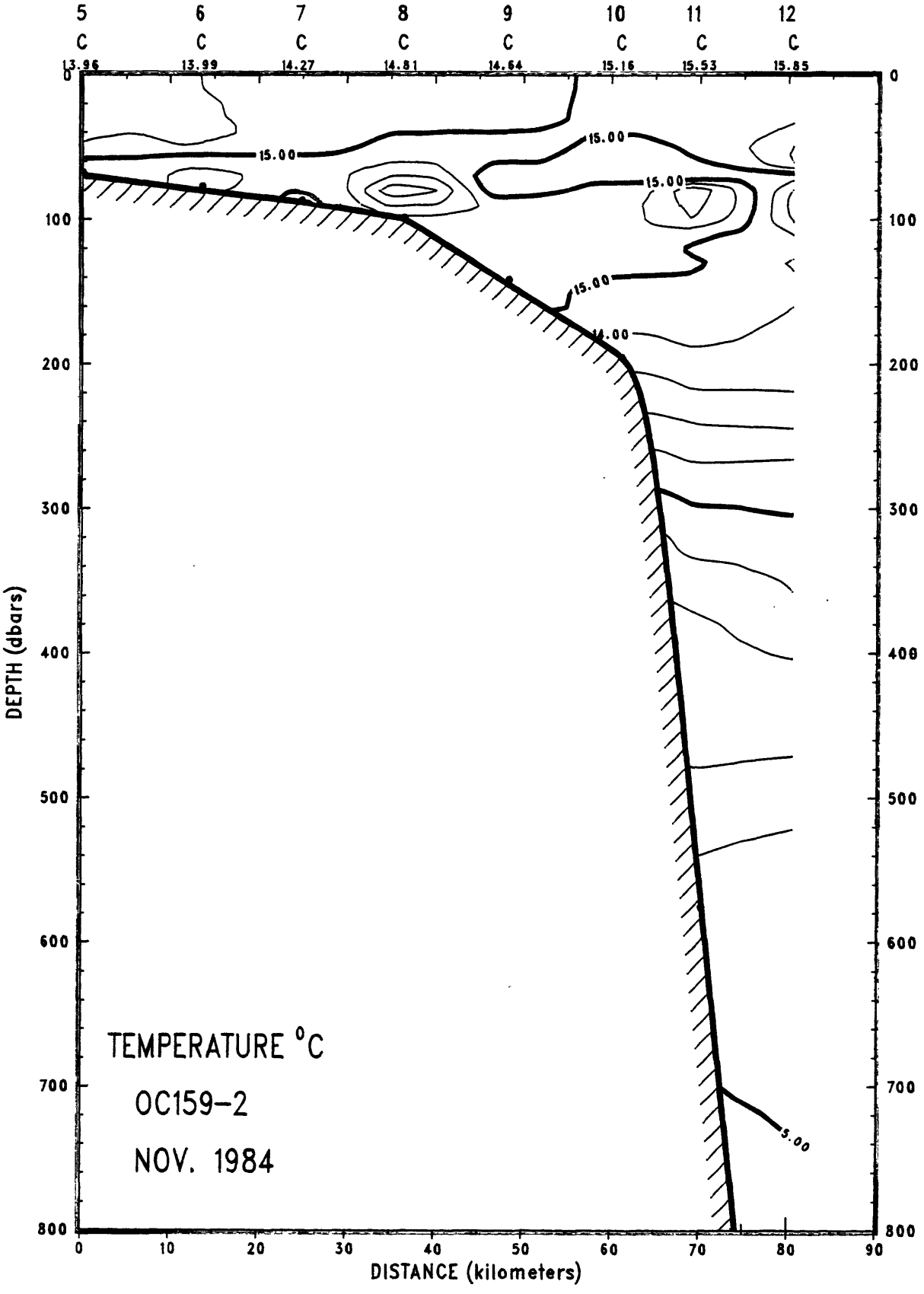
The section numbers follow the hyphen after the cruise symbol OC159 (see fig. 1 and table 1). The station numbers are shown across the top of each section with the station type (C = CTD) and surface value of the contoured variable printed below. The contour intervals are the same for each section (1°C for temperature, 0.2 psu for salinity, 0.2 for sigma-t, and 0.05 m^{-1} for attenuation coefficient). Every fifth contour line is thicker. The bathymetry for most sections is defined only by the depth at each station. Because of the computer contouring routine, the shape and slope of the contours near the sea floor should be interpreted with caution (see text). There were no reliable oxygen values obtain from the CTD. Stations 4, 5, 8, 10, 12, 15, 16, and 17 have less than 5 and occasionally no data points in the 2-dbar average at depths (see Appendix I) where the CTD data stream was "stuck" at a constant value for several seconds. The dot indicates the deepest data point at each station.

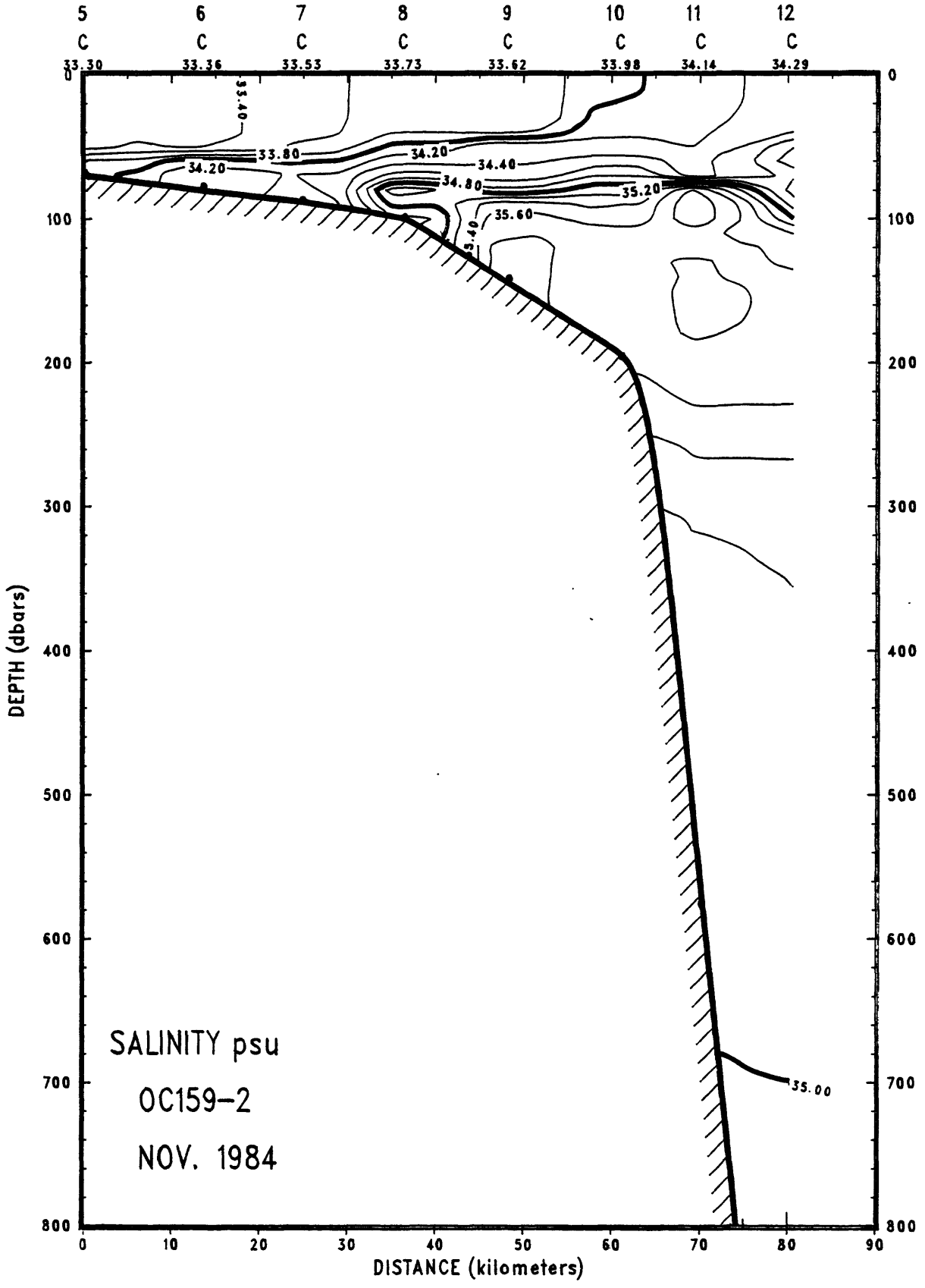

4 C
3 C
2 C
1 C
14.36
14.54
15.48
15.31
15.00
16.00
16.00
10.00
DEPTH (dbars)
0
100
200
300
400
500
600
700
800
TEMPERATURE °C
OC159-1
NOV. 1984
-10
0
10
20
30
40
DISTANCE (kilometers)


4
C
33.54
3
C
33.62
2
C
34.01
1
C
33.97
34.00
34.20
35.20
35.40
35.20
SALINITY psu
OC159-1
NOV. 1984
DEPTH (dbars)
DISTANCE (kilometers)
0
100
200
300
400
500
600
700
800
-10
0
10
20
30
40


4
C
24.98
3
C
25.01
2
C
25.10
1
C
25.11
25.20
25.40
25.80
26.00
26.40
DEPTH (dbars)
0
100
200
300
400
500
600
700
800
SIGMA-t
OC159-1
NOV. 1984
-10
0
10
20
30
40
DISTANCE (kilometers)


4 3 2 1
C C C C
0.13 0.13 0.20 0.16
0.10
0.15
.25
0.05
DEPTH (dbars)
DISTANCE (kilometers)
ATN. COEFF m^{-1}
OC159-1
NOV. 1984


5 C 13.96
6 C 13.99
7 C 14.27
8 C 14.81
9 C 14.64
10 C 15.16
11 C 15.53
12 C 15.85
15.00
15.00
15.00
15.00
14.00
5.00
DEPTH (dbars)
0
100
200
300
400
500
600
700
800
TEMPERATURE °C
OC159-2
NOV. 1984
0
10
20
30
40
50
60
70
80
90
DISTANCE (kilometers)


5 C 33.30
6 C 33.36
7 C 33.53
8 C 33.73
9 C 33.62
10 C 33.98
11 C 34.14
12 C 34.29
33.40
33.80
34.20
34.20
34.40
34.80
35.20
35.60
35.40
35.00
SALINITY psu
OC159-2
NOV. 1984
DEPTH (dbars)
DISTANCE (kilometers)
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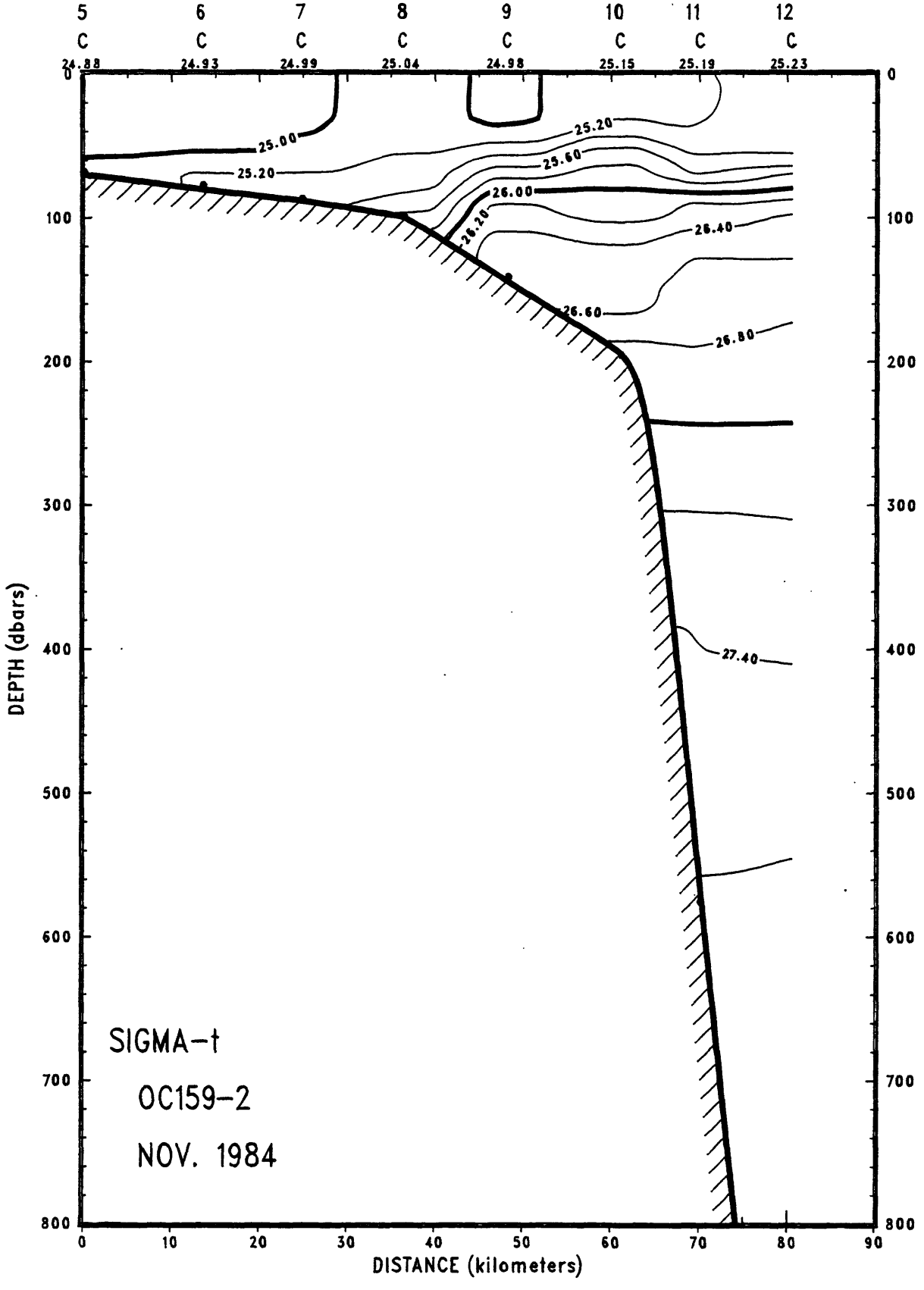
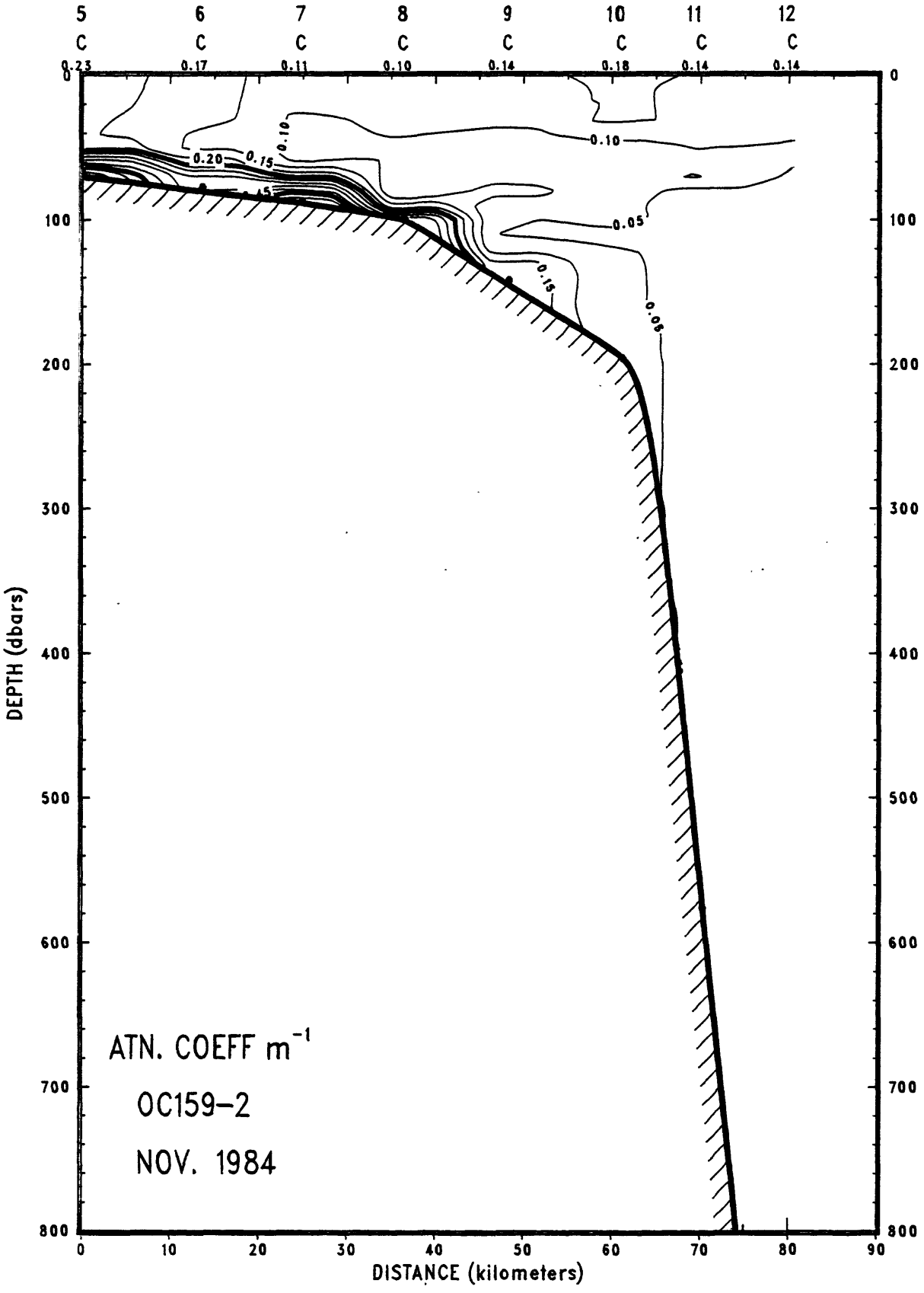
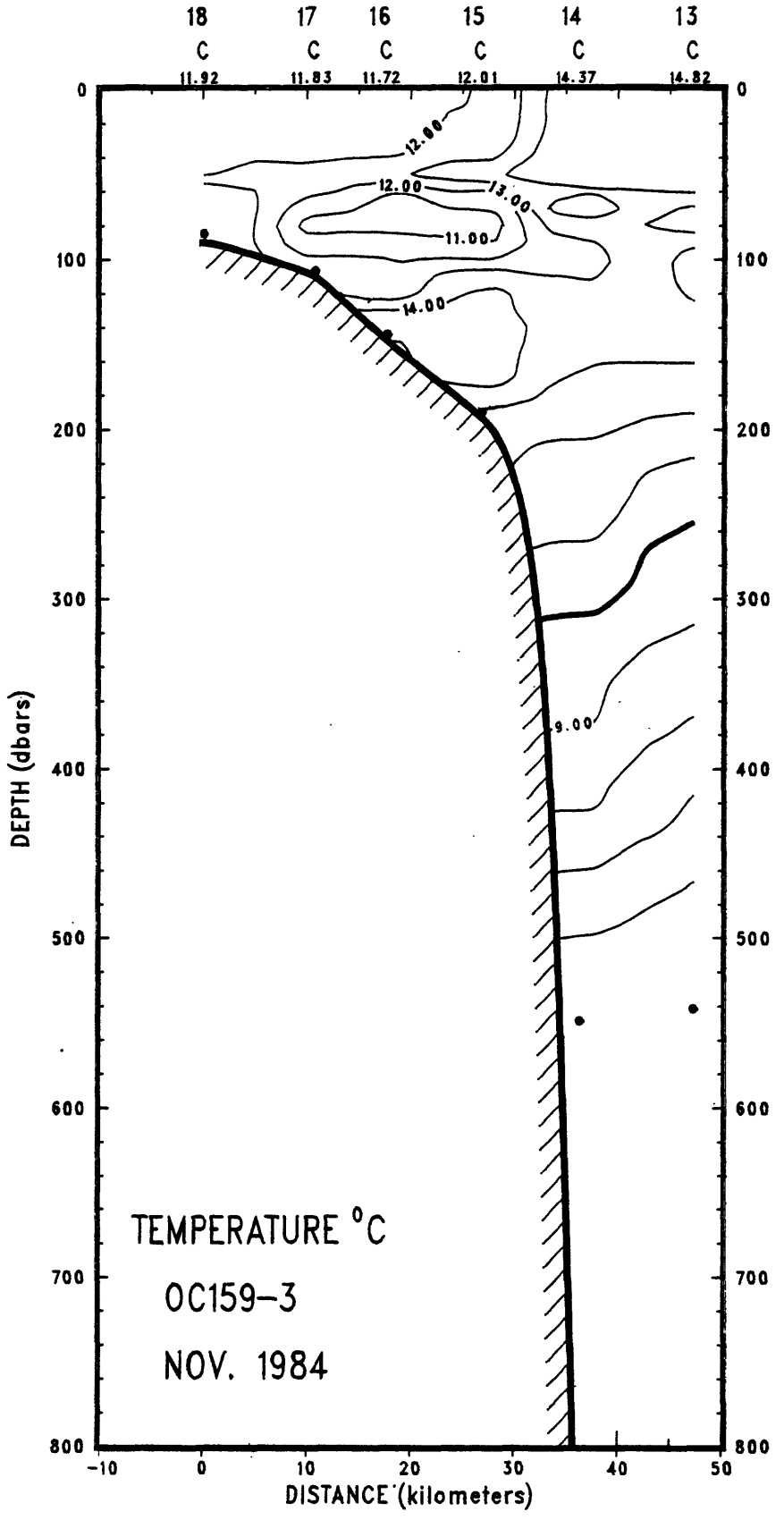
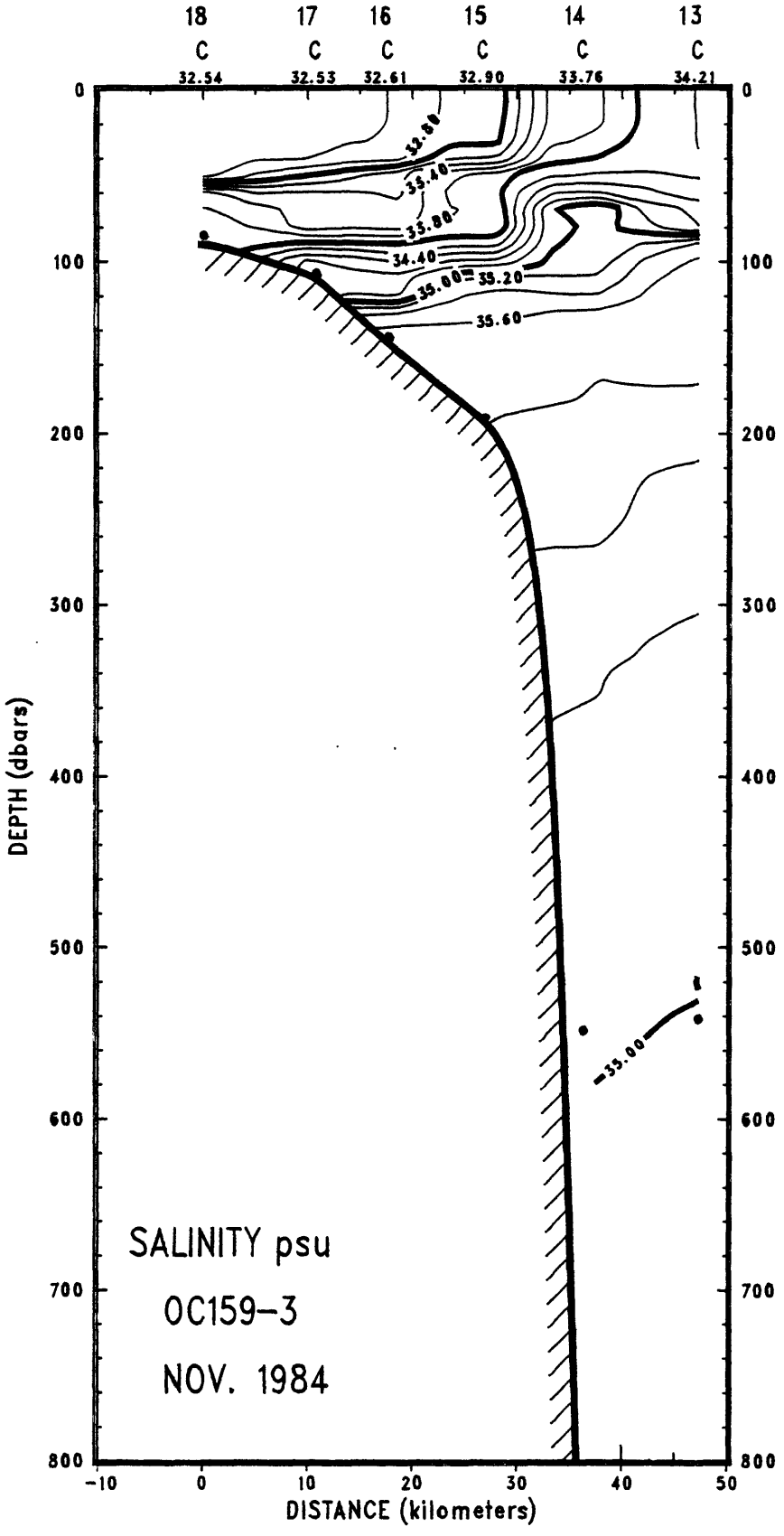
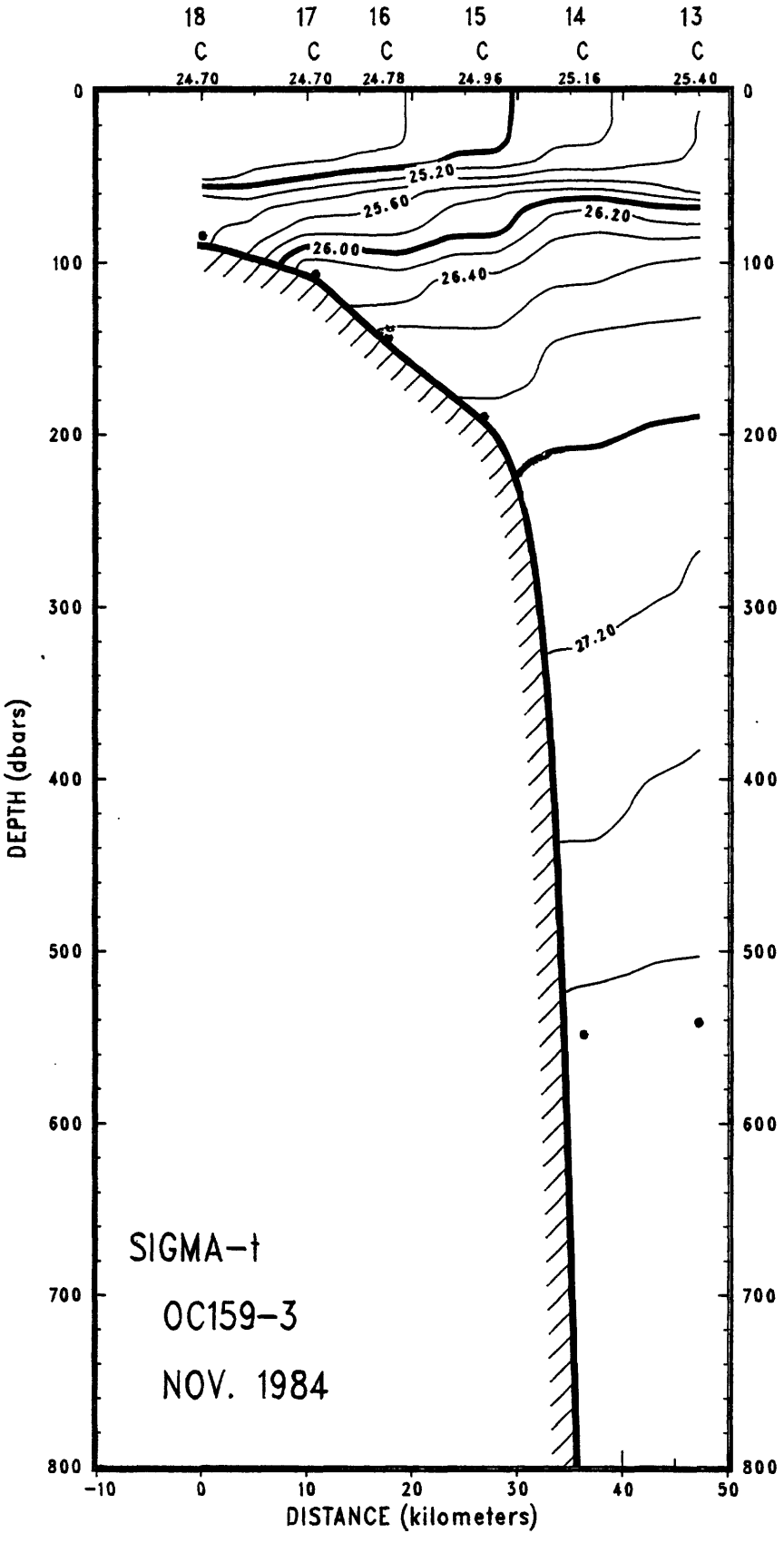
100
200
300
400
500
600
700
800
10
20
30
40
50
60
70
80
90

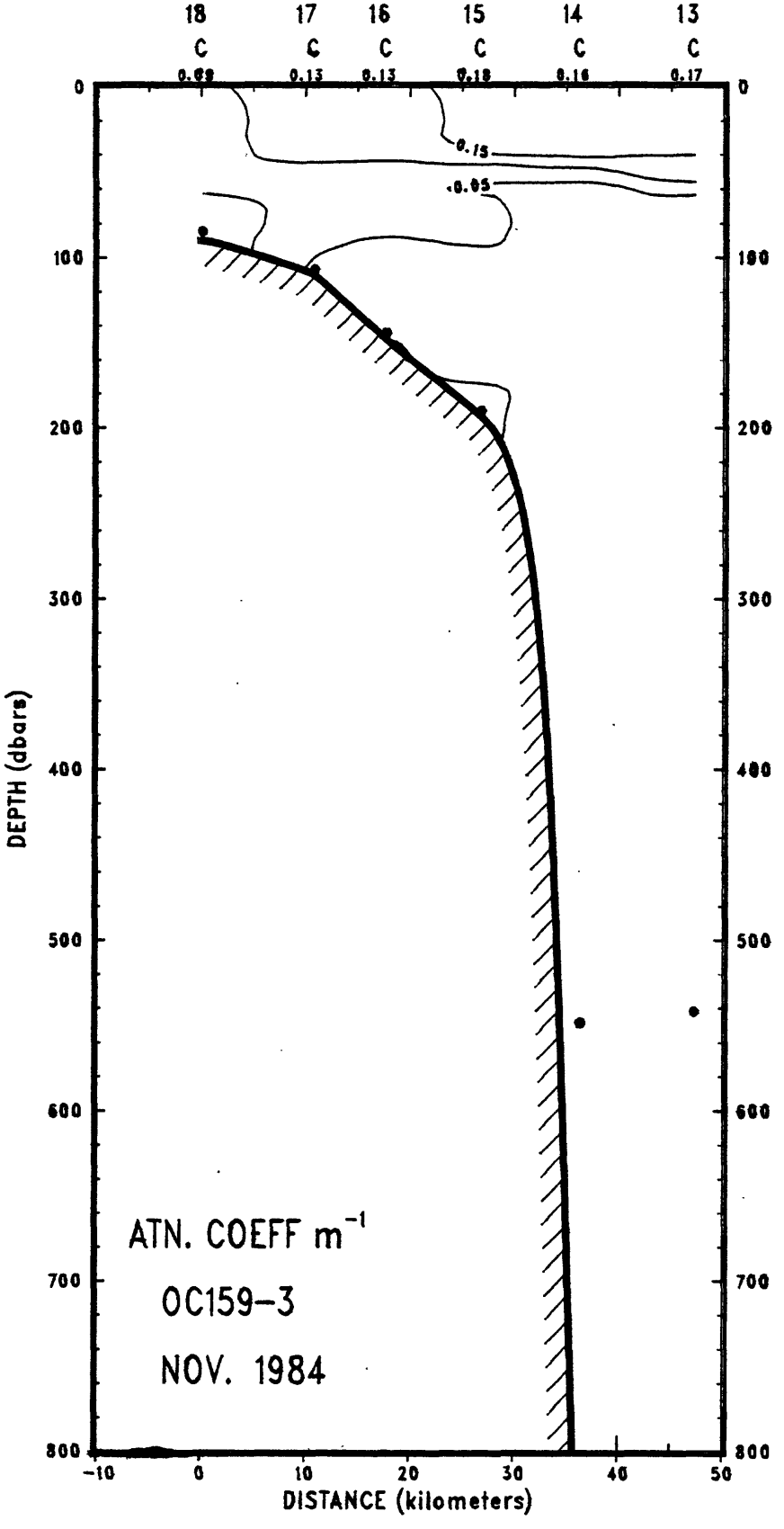

5 C
6 C
7 C
8 C
9 C
10 C
11 C
12 C
24.88
24.93
24.99
25.04
24.98
25.15
25.19
25.23
25.00
25.20
25.60
26.00
26.20
26.40
26.60
26.80
27.40
DEPTH (dbars)
DISTANCE (kilometers)
SIGMA-t
OC159-2
NOV. 1984

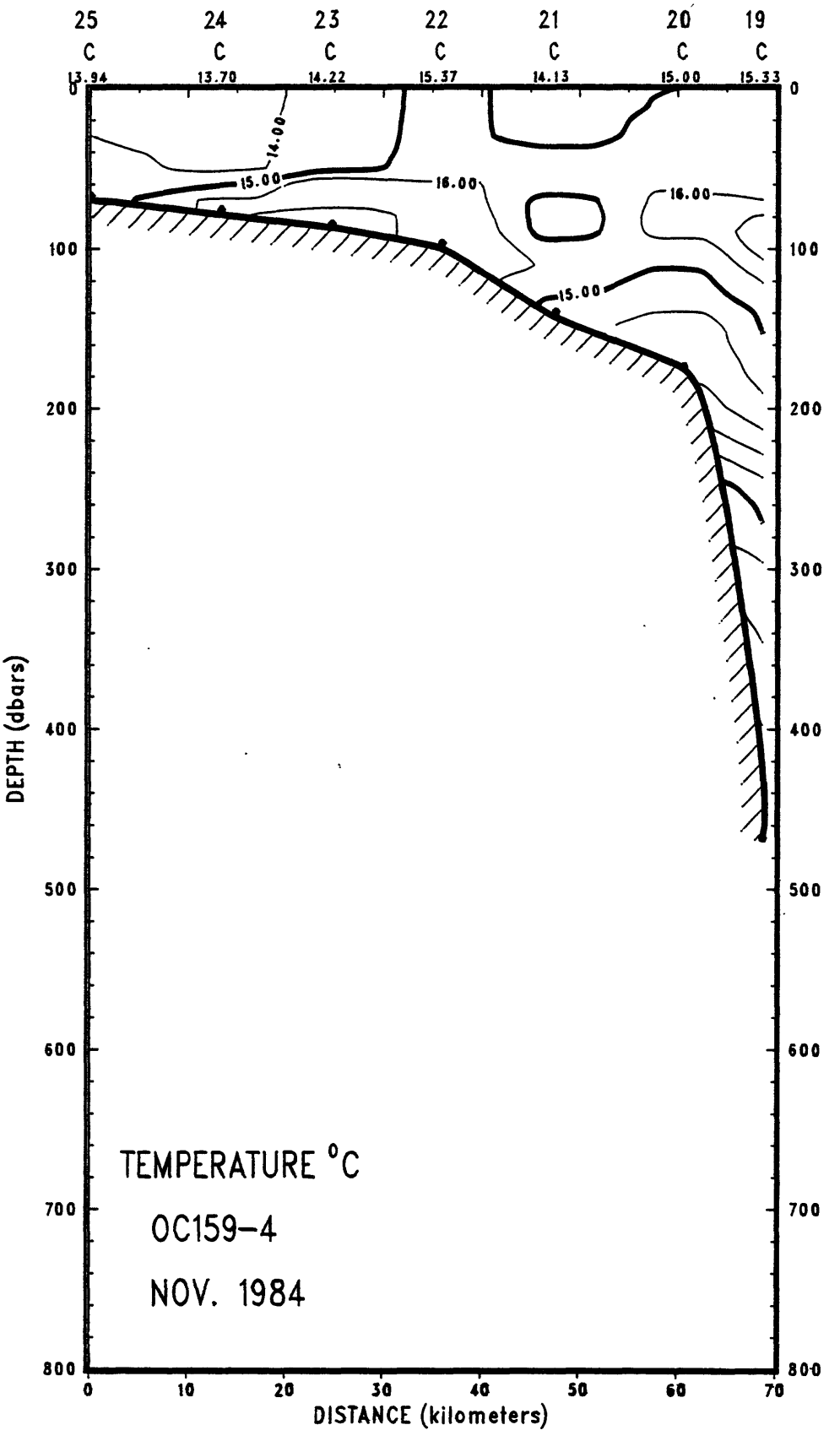

5 C
6 C
7 C
8 C
9 C
10 C
11 C
12 C
0.23
0.17
0.11
0.10
0.14
0.18
0.14
0.14
0.20
0.15
0.10
0.05
0
100
200
300
400
500
600
700
800
DEPTH (dbars)
0
10
20
30
40
50
60
70
80
90
DISTANCE (kilometers)
ATN. COEFF m^{-1}
OC159-2
NOV. 1984

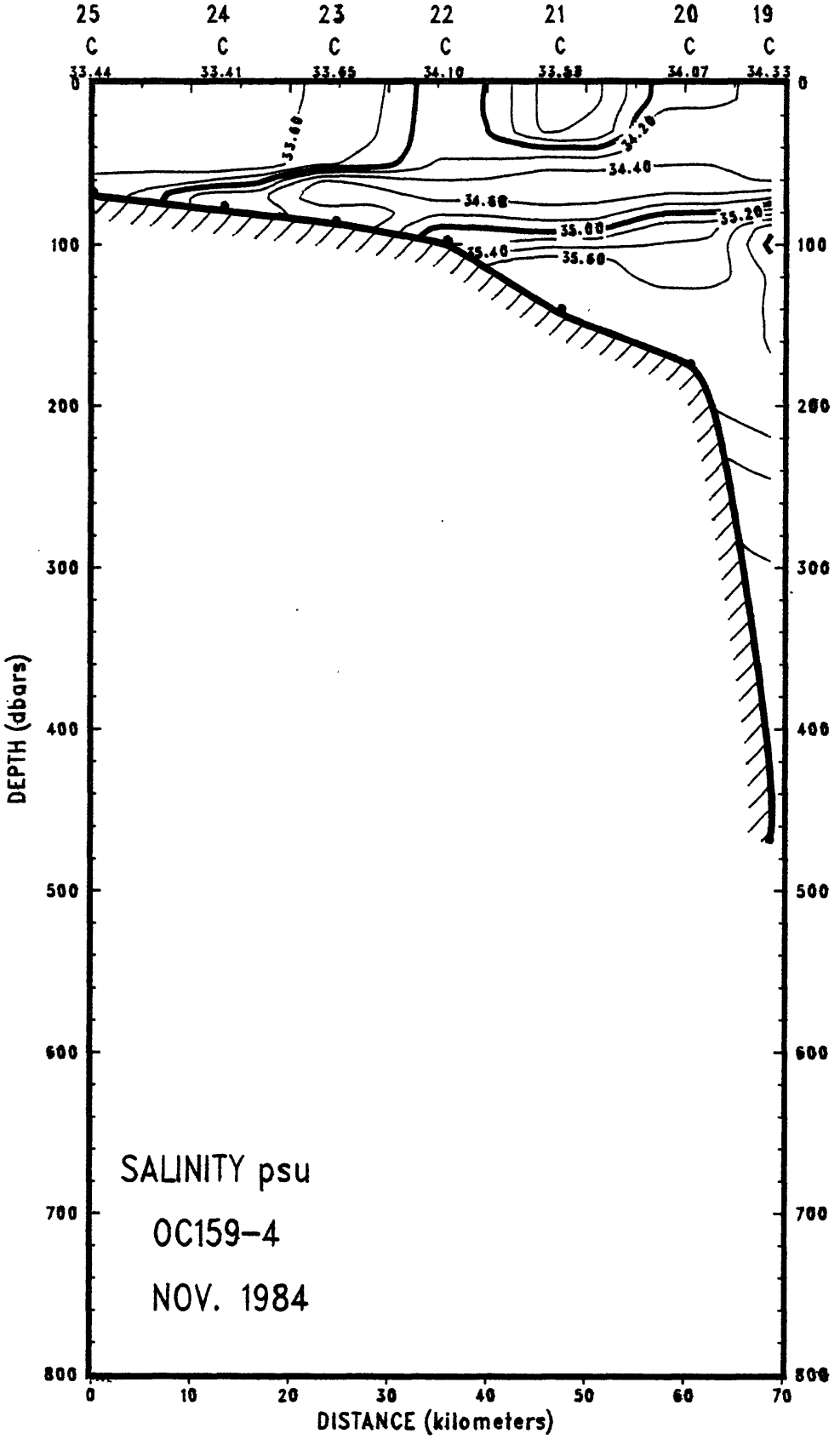

18 C 11.92
17 C 11.83
16 C 11.72
15 C 12.01
14 C 14.37
13 C 14.82
12.00
12.00
13.00
11.00
14.00
9.00
DEPTH (dbars)
0
100
200
300
400
500
600
700
800
TEMPERATURE °C
OC159-3
NOV. 1984
-10
0
10
20
30
40
50
DISTANCE (kilometers)

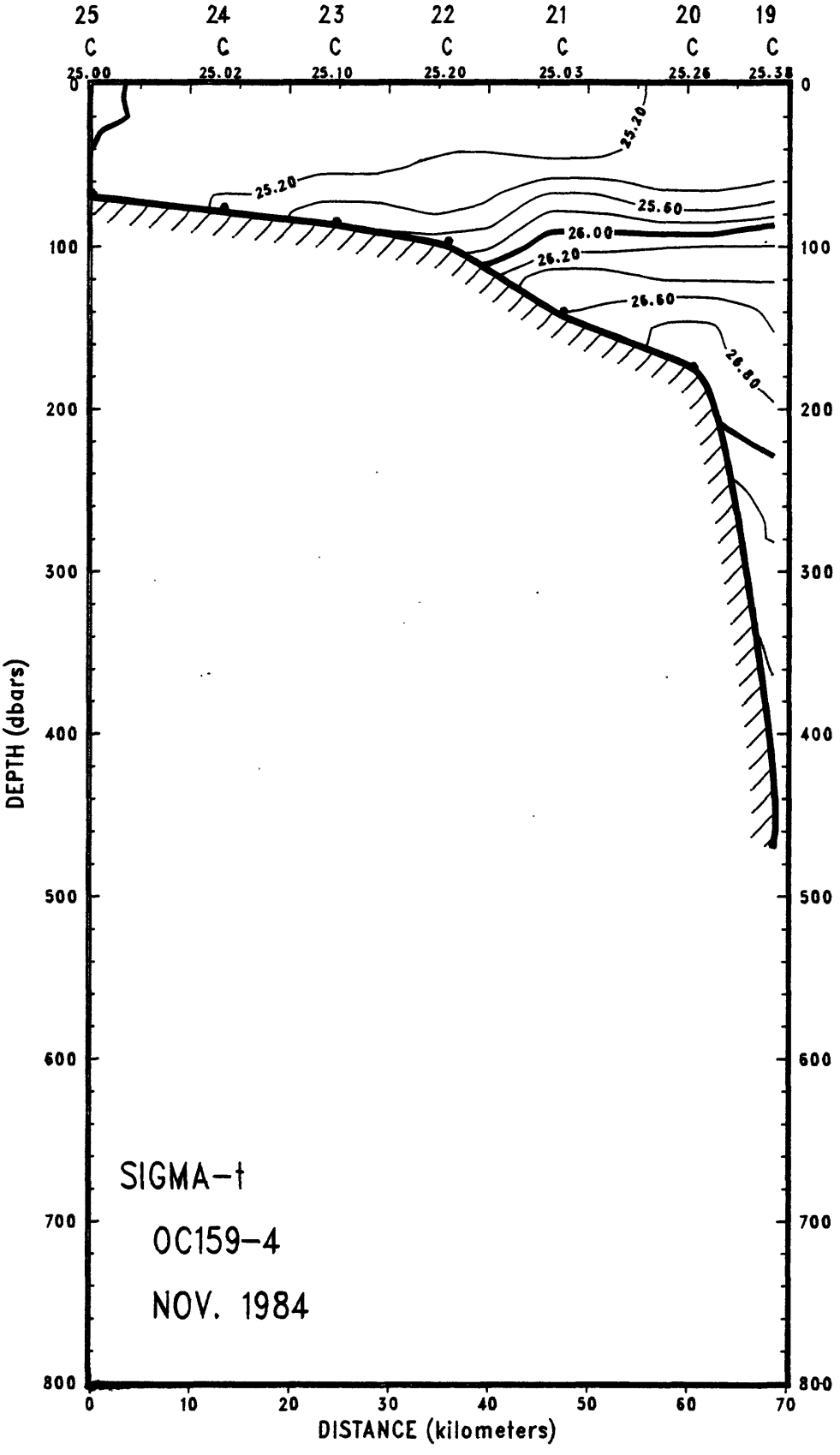

18 C 32.54
17 C 32.53
16 C 32.61
15 C 32.90
14 C 33.76
13 C 34.21
32.80
33.40
33.80
34.40
35.00
35.20
35.60
35.00
DEPTH (dbars)
0
100
200
300
400
500
600
700
800
-10
0
10
20
30
40
50
DISTANCE (kilometers)
SALINITY psu
OC159-3
NOV. 1984

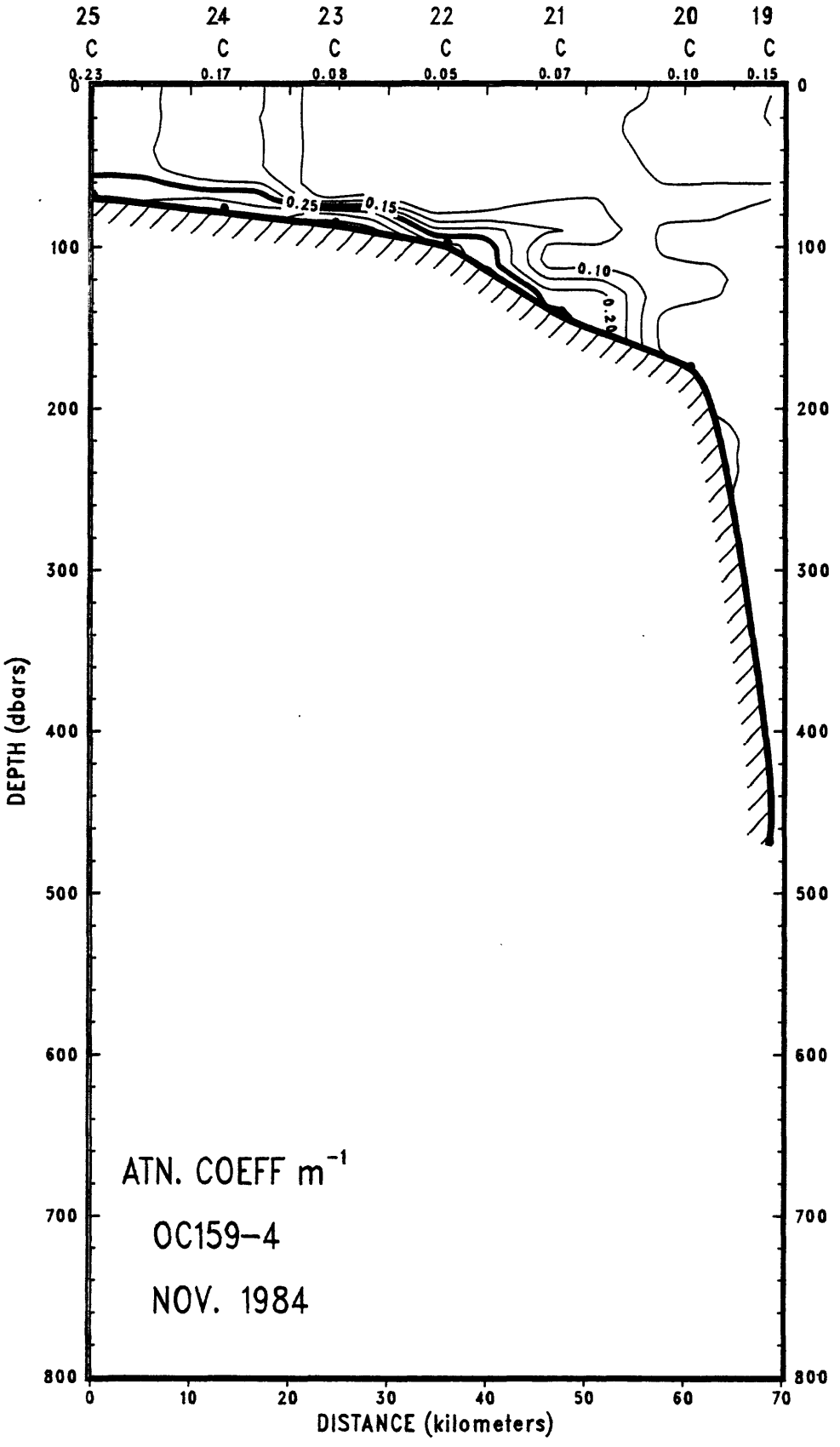

18 C 24.70
17 C 24.70
16 C 24.78
15 C 24.96
14 C 25.16
13 C 25.40
25.20
25.60
26.00
26.20
26.40
27.20
SIGMA-t
OC159-3
NOV. 1984
DEPTH (dbars)
DISTANCE (kilometers)
0
100
200
300
400
500
600
700
800
-10
0
10
20
30
40
50

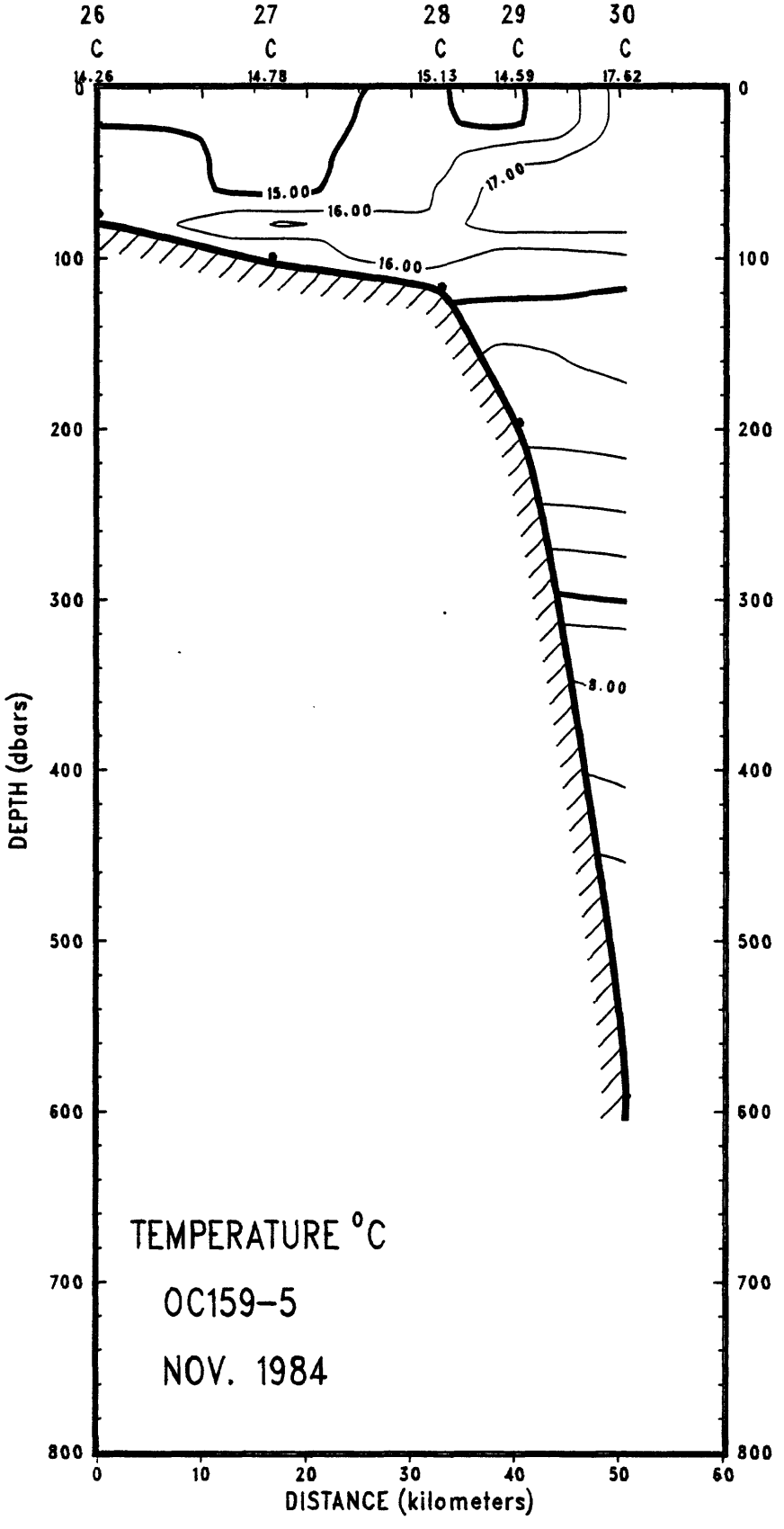

18 C
17 C
16 C
15 C
14 C
13 C
0.09
0.13
0.13
0.18
0.16
0.17
0.15
0.05
DEPTH (dbars)
0
100
200
300
400
500
600
700
800
ATN. COEFF m^{-1}
OC159-3
NOV. 1984
-10
0
10
20
30
40
50
DISTANCE (kilometers)

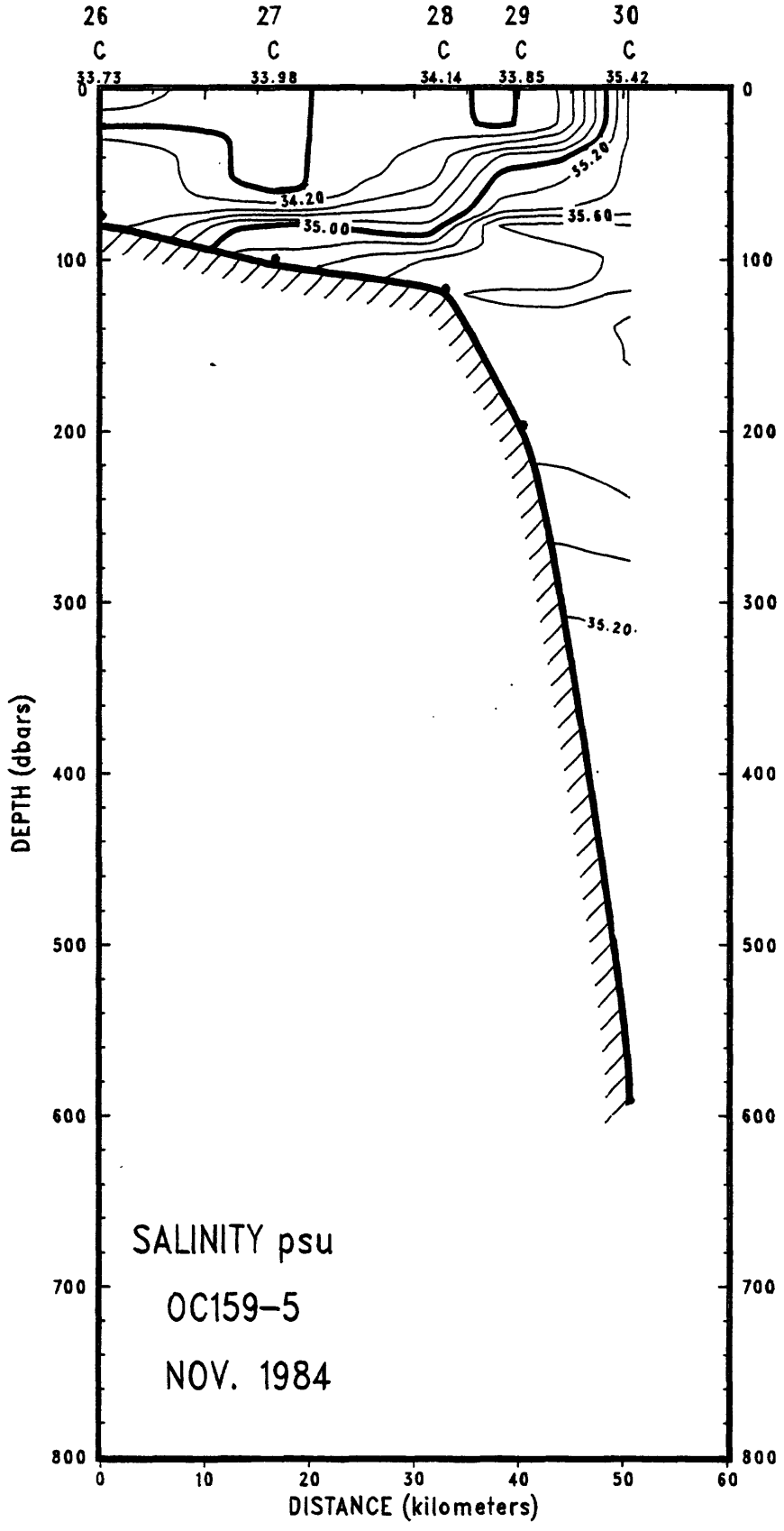

25 C
24 C
23 C
22 C
21 C
20 C
19 C
13.94
13.70
14.22
15.37
14.13
15.00
15.33
14.00
15.00
16.00
16.00
15.00
DEPTH (dbars)
0
100
200
300
400
500
600
700
800
TEMPERATURE °C
OC159-4
NOV. 1984
0
10
20
30
40
50
60
70
DISTANCE (kilometers)

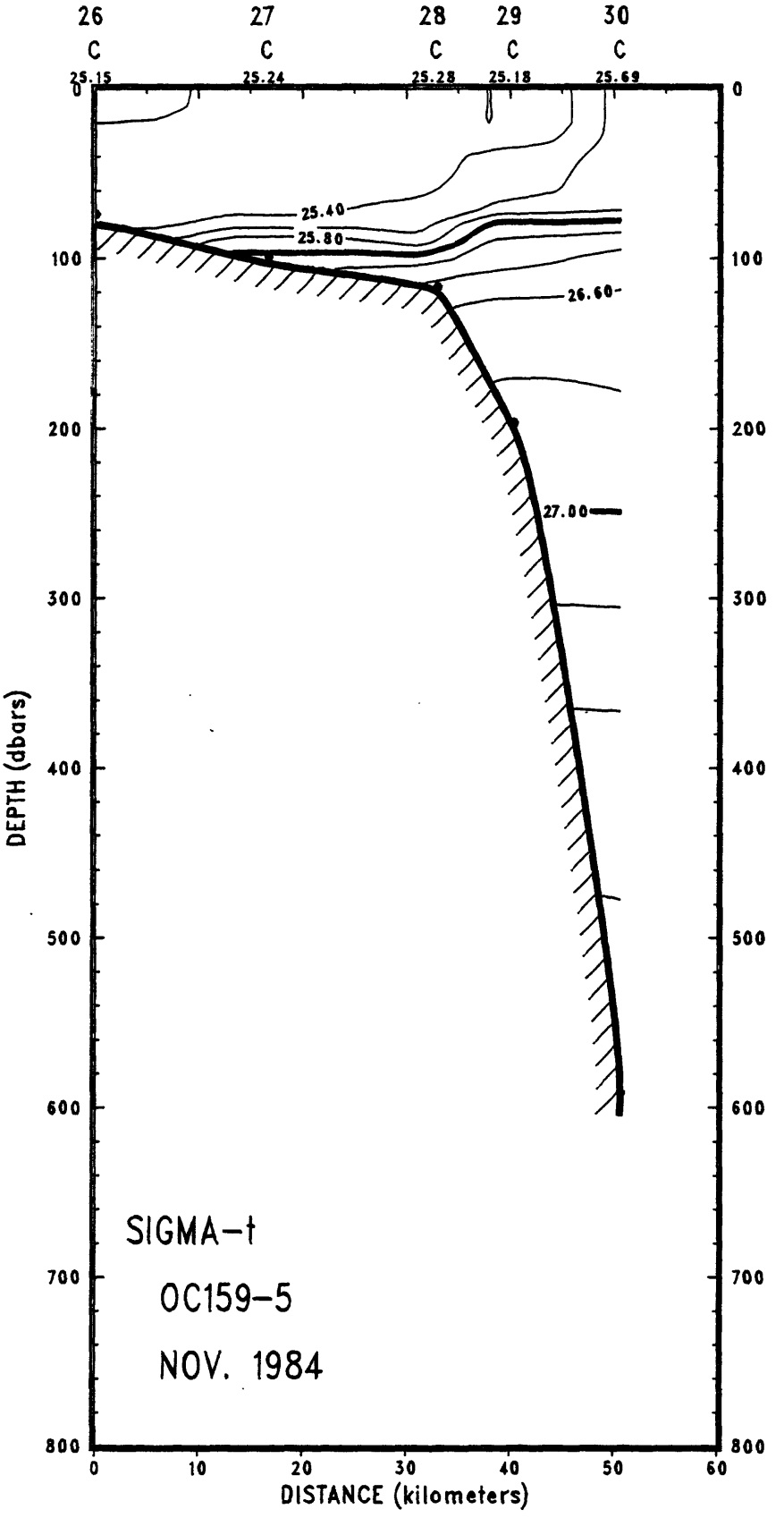

25 C
24 C
23 C
22 C
21 C
20 C
19 C
33.44
33.41
33.65
34.10
34.07
34.33
33.60
34.20
34.40
34.60
35.00
35.20
35.40
35.60
DEPTH (dbars)
0
100
200
300
400
500
600
700
800
SALINITY psu
OC159-4
NOV. 1984
0
10
20
30
40
50
60
70
DISTANCE (kilometers)

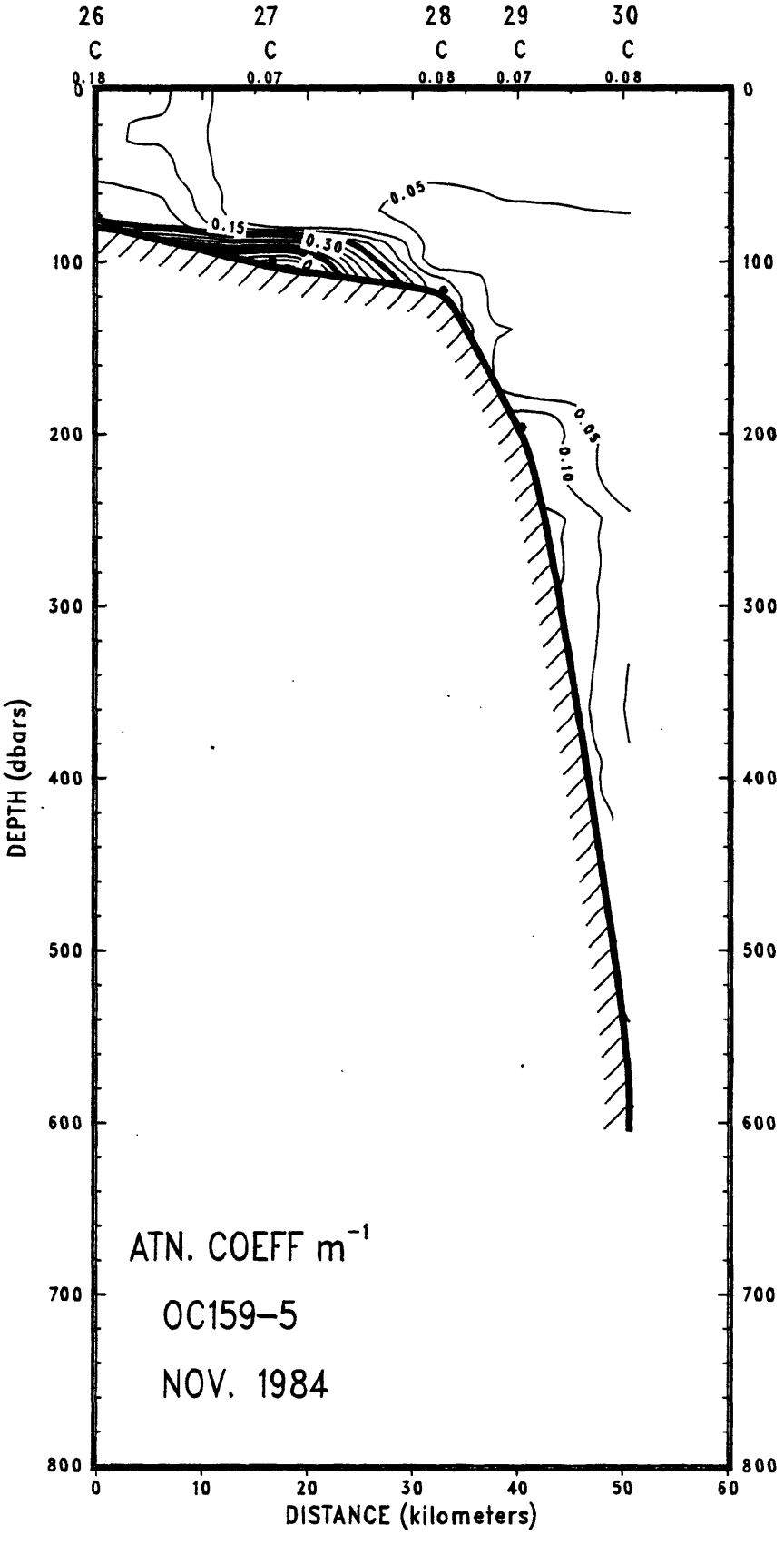

25 C
24 C
23 C
22 C
21 C
20 C
19 C
25.00
25.02
25.10
25.20
25.03
25.26
25.38
25.10
25.20
25.60
26.00
26.20
26.60
26.80
DEPTH (dbars)
0
100
200
300
400
500
600
700
800
0
10
20
30
40
50
60
70
DISTANCE (kilometers)
SIGMA-t
OC159-4
NOV. 1984

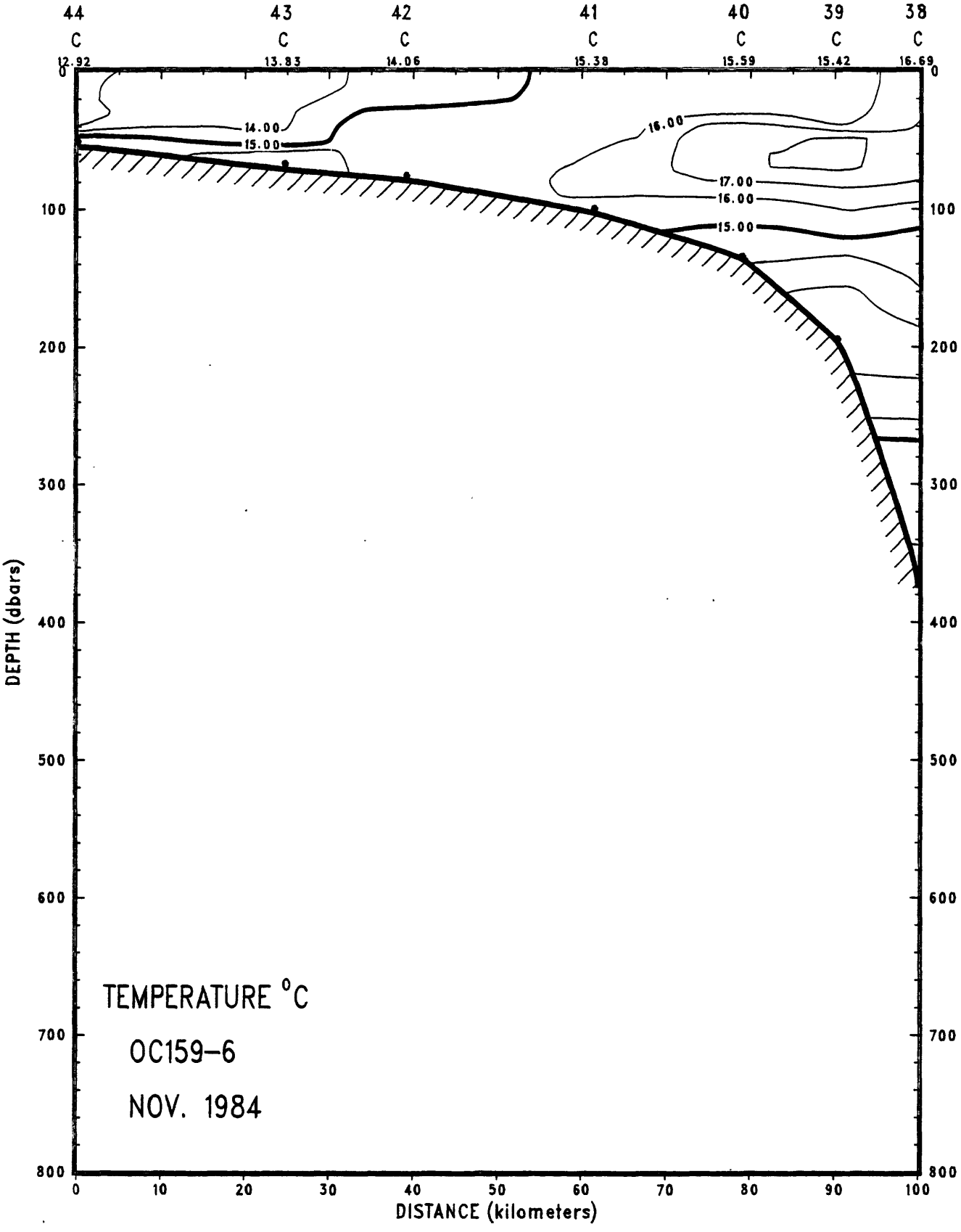

25 C
24 C
23 C
22 C
21 C
20 C
19 C
0.23
0.17
0.08
0.05
0.07
0.10
0.15
0.25
0.15
0.10
0.20
DEPTH (dbars)
0
100
200
300
400
500
600
700
800
ATN. COEFF m^{-1}
OC159-4
NOV. 1984
0
10
20
30
40
50
60
70
DISTANCE (kilometers)

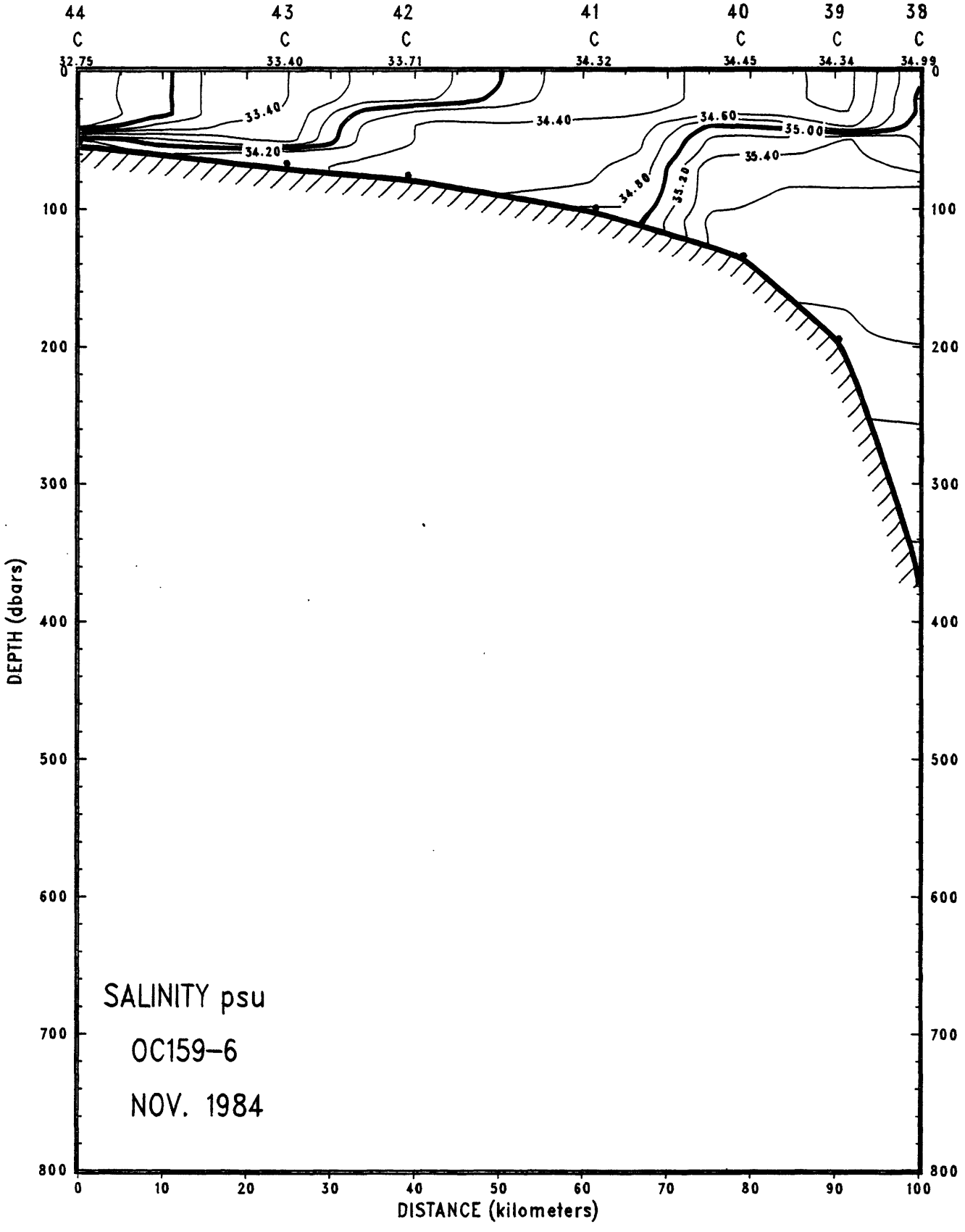

26 C
27 C
28 C
29 C
30 C
14.26
14.78
15.13
14.59
17.62
15.00
16.00
16.00
17.00
8.00
DEPTH (dbars)
0
100
200
300
400
500
600
700
800
0
10
20
30
40
50
60
DISTANCE (kilometers)
TEMPERATURE °C
OC159-5
NOV. 1984

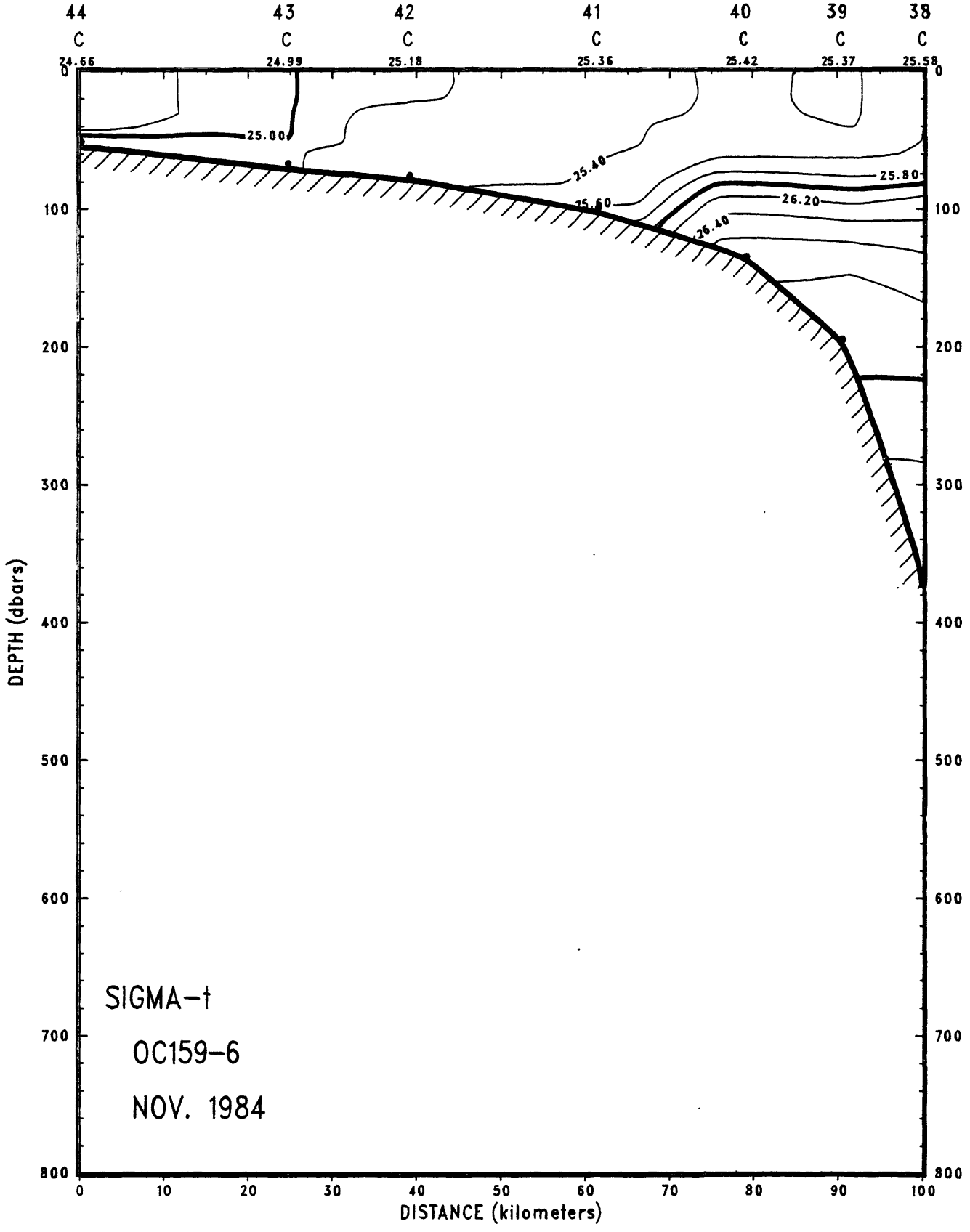

26
C
27
C
28
C
29
C
30
C
33.73
33.98
34.14
33.85
35.42
34.20
35.00
35.20
35.60
35.20
SALINITY psu
OC159-5
NOV. 1984
DEPTH (dbars)
DISTANCE (kilometers)
0
100
200
300
400
500
600
700
800
10
20
30
40
50
60

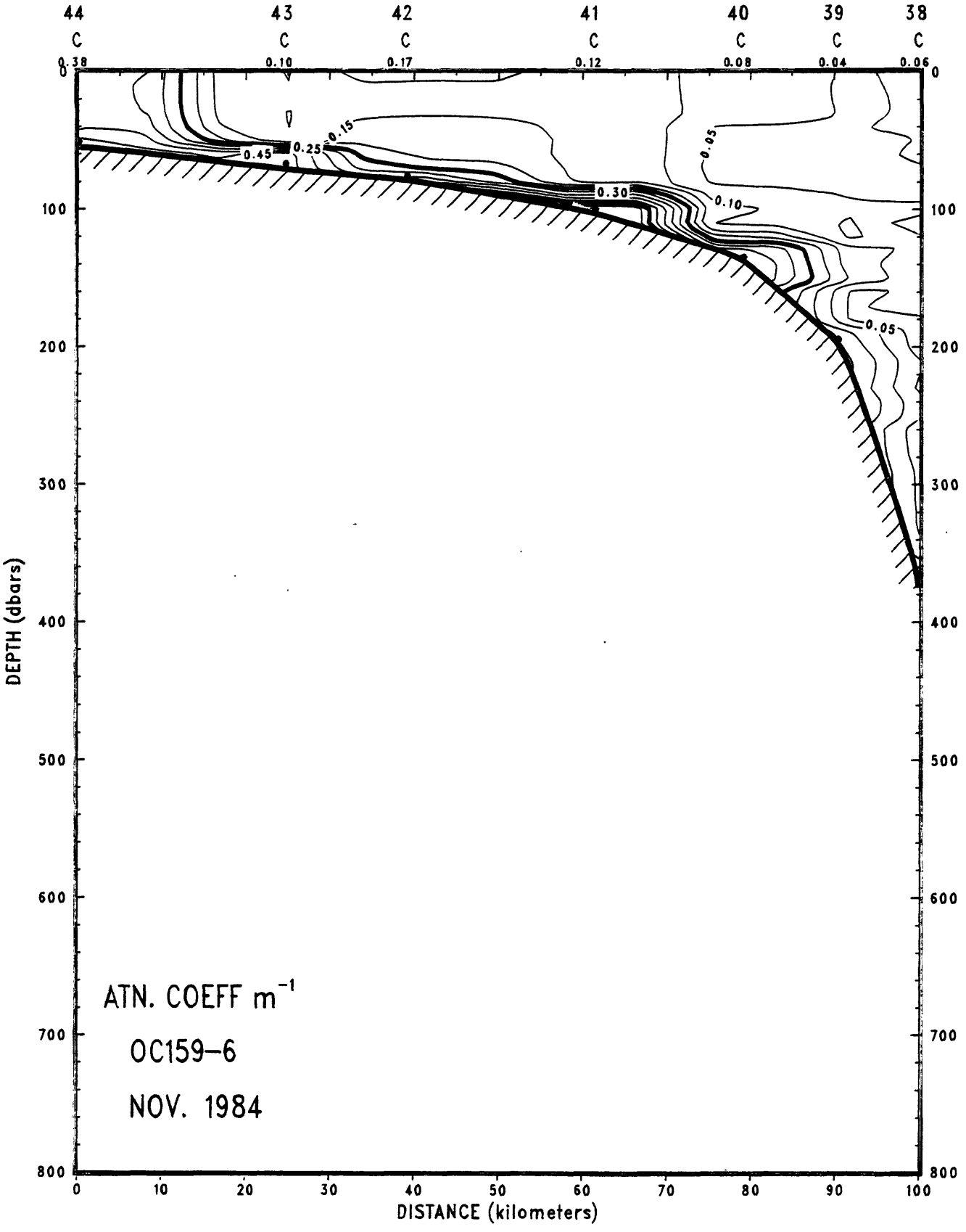

26 C
27 C
28 C
29 C
30 C
25.15
25.24
25.28
25.18
25.69
25.40
25.80
26.60
27.00
DEPTH (dbars)
0
100
200
300
400
500
600
700
800
0
10
20
30
40
50
60
DISTANCE (kilometers)
SIGMA-t
OC159-5
NOV. 1984


26 C
27 C
28 C
29 C
30 C
0.18
0.07
0.08
0.07
0.08
0.15
0.30
0
0.05
0.05
0.10
ATN. COEFF m^{-1}
OC159-5
NOV. 1984
DEPTH (dbars)
DISTANCE (kilometers)
0
100
200
300
400
500
600
700
800
10
20
30
40
50
60


44 C 12.92
43 C 13.83
42 C 14.06
41 C 15.38
40 C 15.59
39 C 15.42
38 C 16.69
14.00
15.00
16.00
17.00
16.00
15.00
DEPTH (dbars)
0
100
200
300
400
500
600
700
800
TEMPERATURE °C
OC159-6
NOV. 1984
0
10
20
30
40
50
60
70
80
90
100
DISTANCE (kilometers)

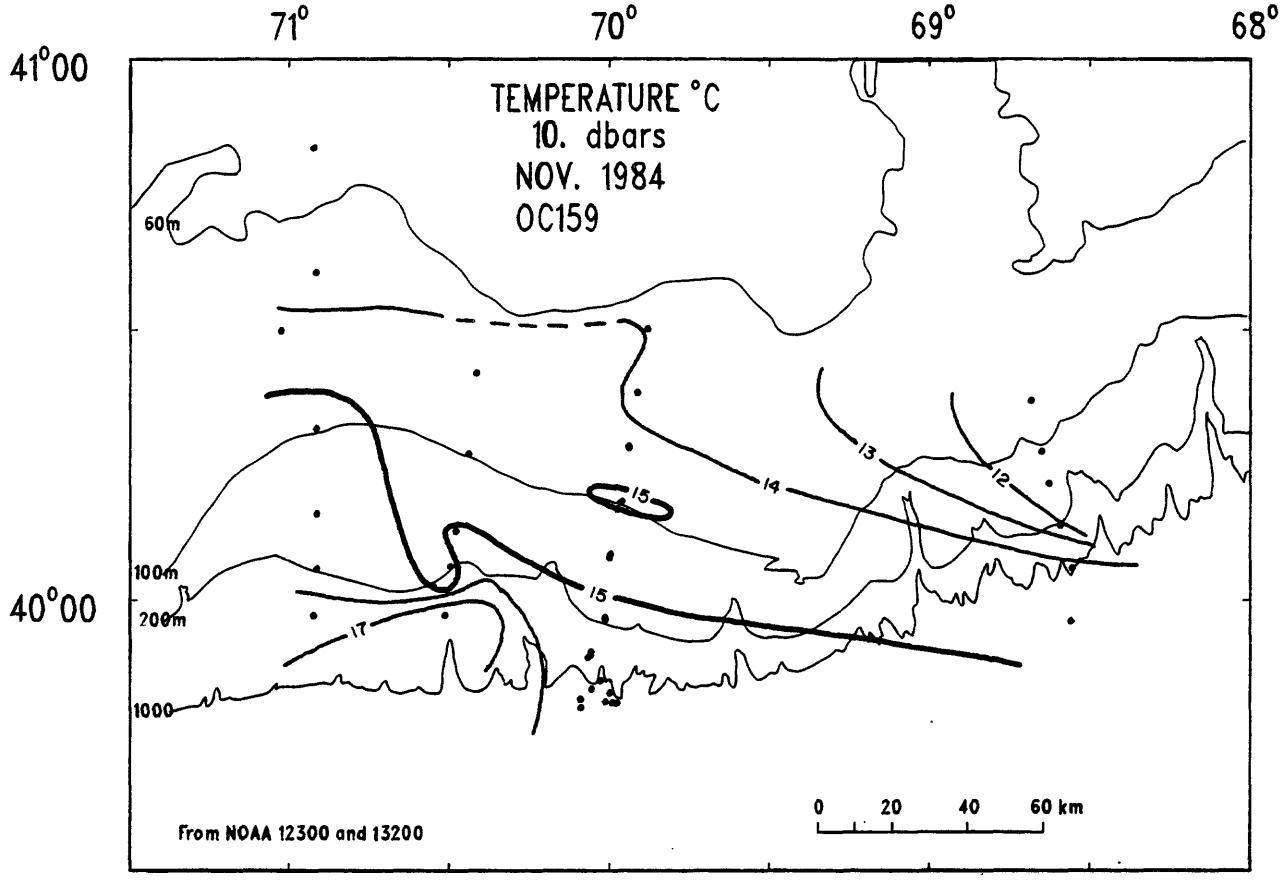

44 C 32.75
43 C 33.40
42 C 33.71
41 C 34.32
40 C 34.45
39 C 34.34
38 C 34.99
34.40
34.20
34.40
34.60
35.00
35.40
34.80
35.20
DEPTH (dbars)
DISTANCE (kilometers)
SALINITY psu
OC159-6
NOV. 1984

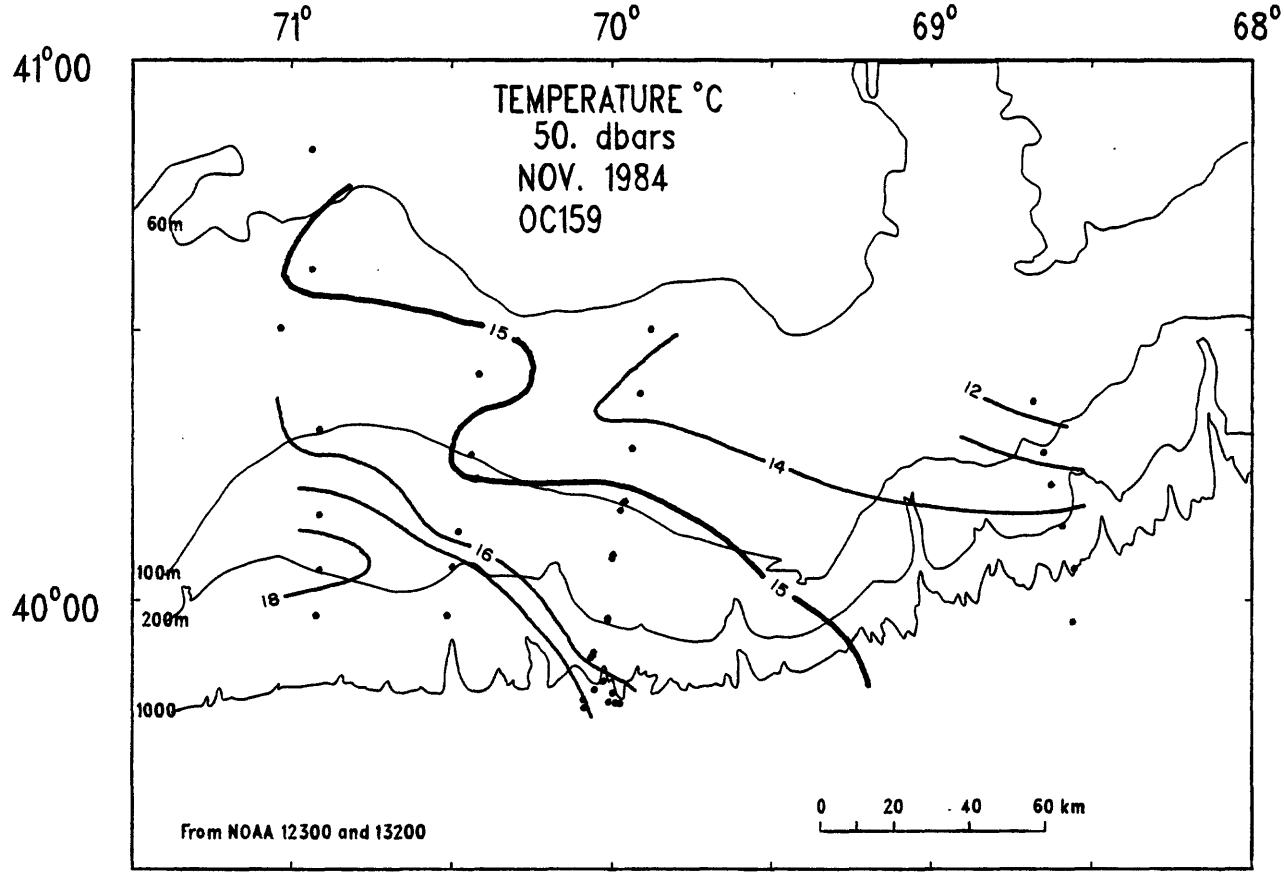

44
C
24.66
43
C
24.99
42
C
25.18
41
C
25.36
40
C
25.42
39
C
25.37
38
C
25.58
25.00
25.40
25.60
25.80
26.20
26.40
DEPTH (dbars)
0
100
200
300
400
500
600
700
800
SIGMA-t
OC159-6
NOV. 1984
0
10
20
30
40
50
60
70
80
90
100
DISTANCE (kilometers)

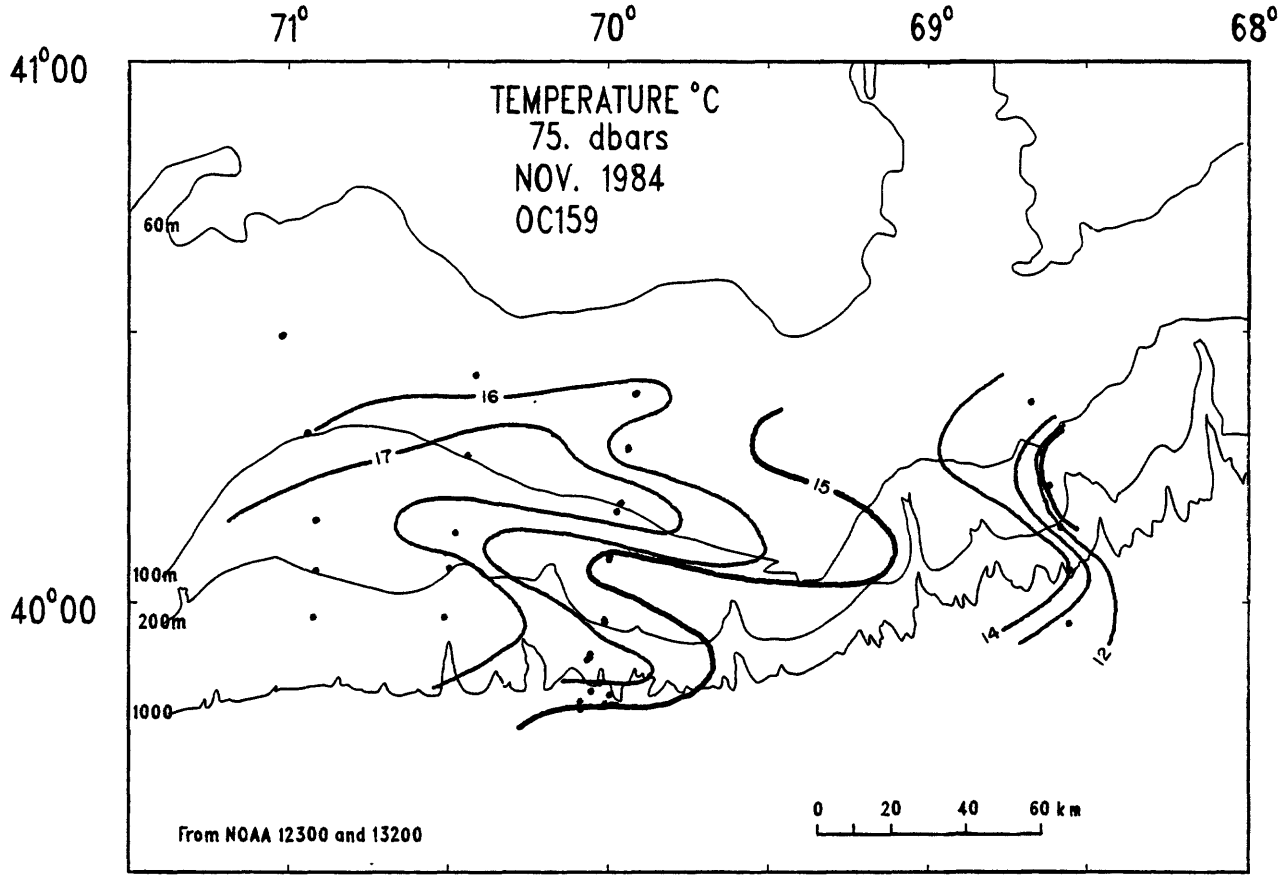

44 C
43 C
42 C
41 C
40 C
39 C
38 C
0.38
0.10
0.17
0.12
0.08
0.04
0.06
0.45
0.25
0.15
0.30
0.10
0.05
0.05
DEPTH (dbars)
0
100
200
300
400
500
600
700
800
ATN. COEFF m^{-1}
OC159-6
NOV. 1984
0
10
20
30
40
50
60
70
80
90
100
DISTANCE (kilometers)

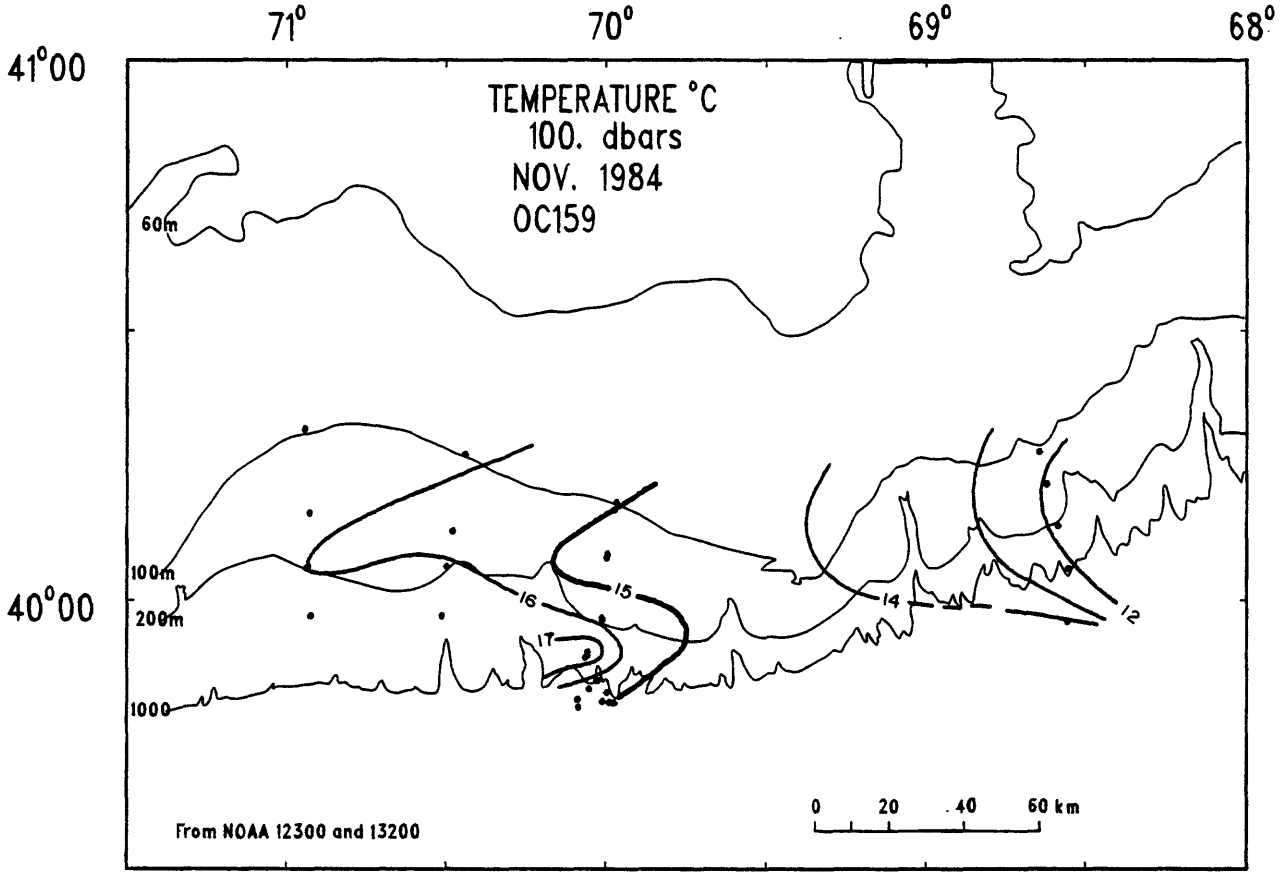
Horizontal sections

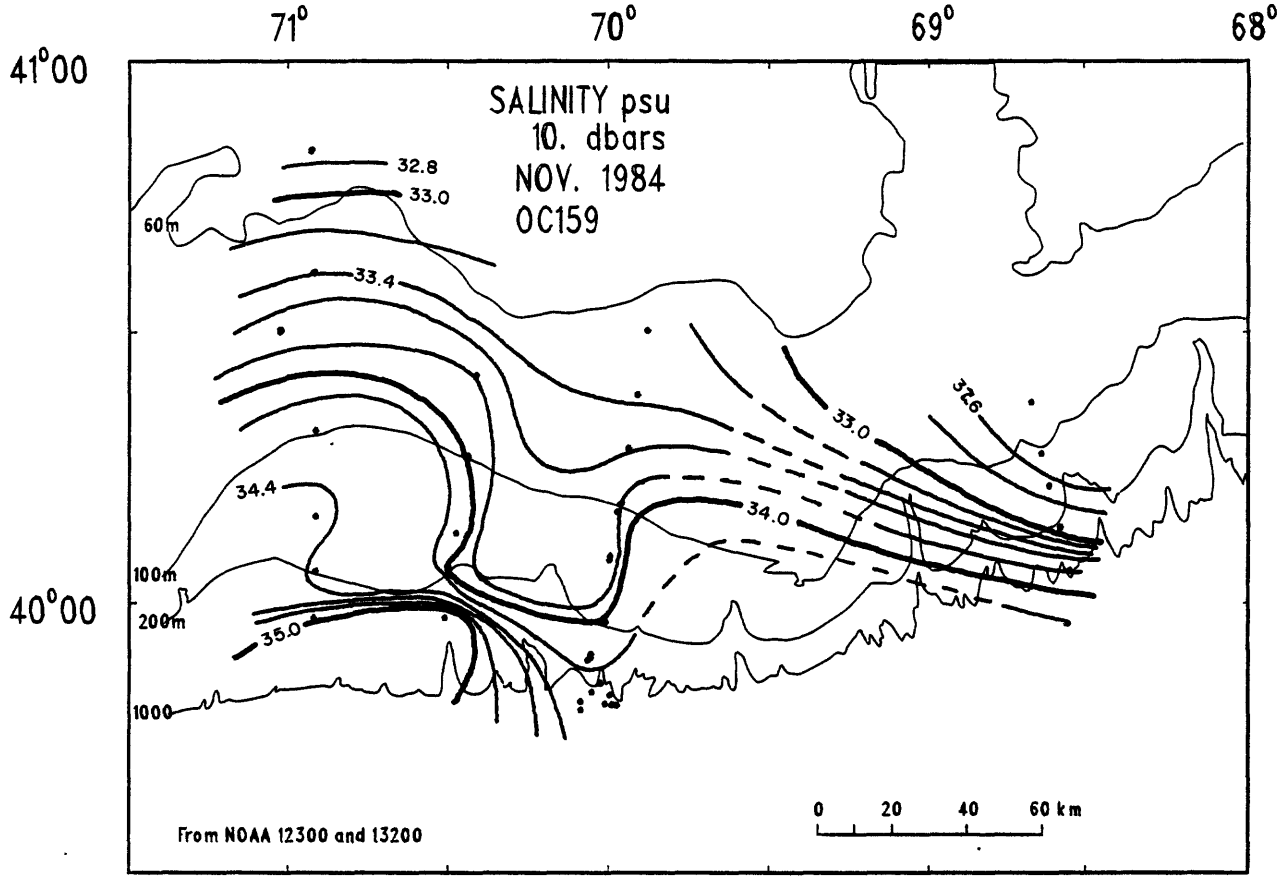
Horizontal sections were constructed on the 10-, 50-, 75- and 100-dbar pressure surfaces for temperature, salinity, density and attenuation coefficient. Surface values of phosphate, silicate, nitrate and ammonia were also contoured. Dots indicate the location of stations that were used in contouring the section and all sections were contoured by hand due to the sparse data.

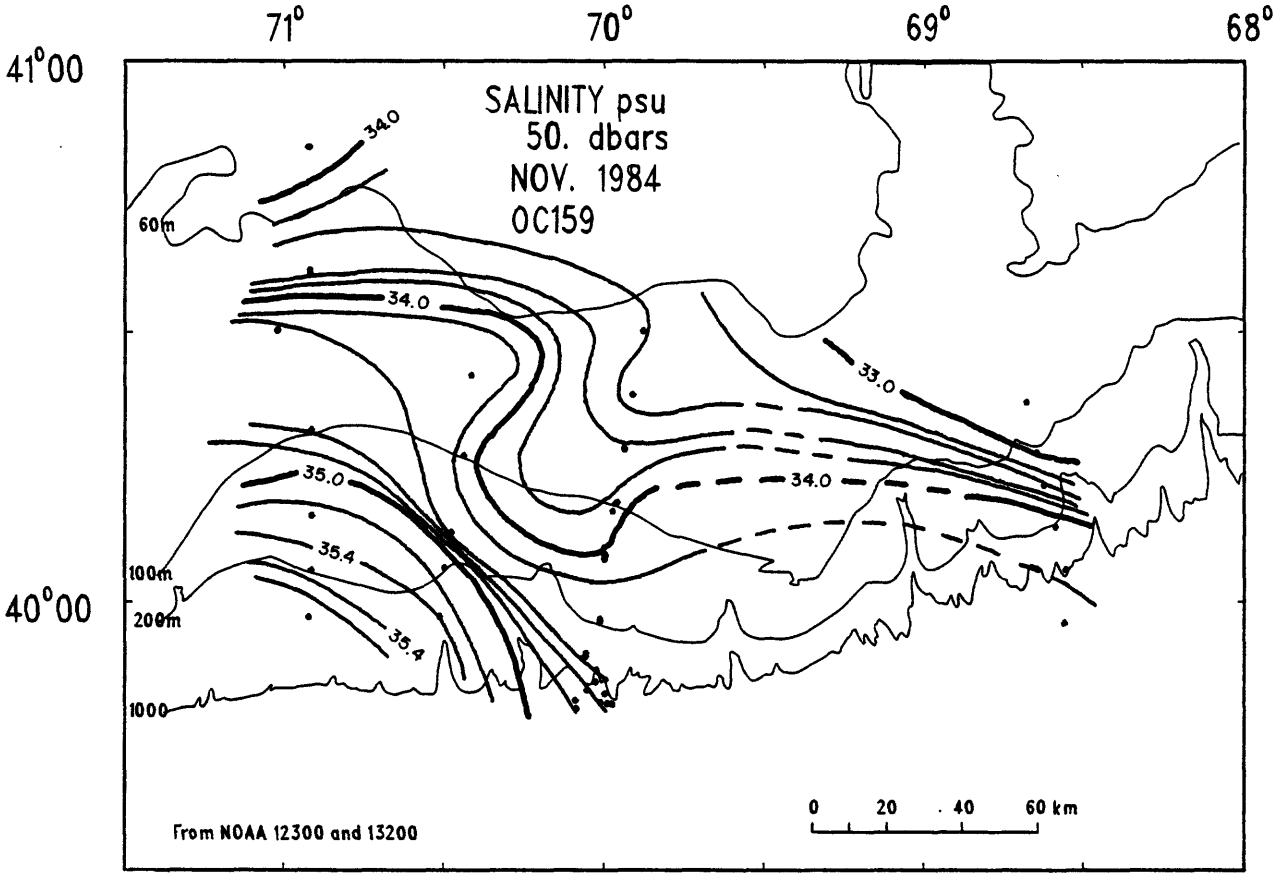

71°
70°
69°
68°
41°00
40°00
TEMPERATURE °C
10. dbars
NOV. 1984
OC159
60m
100m
200m
1000
12
13
14
15
15
17
From NOAA 12300 and 13200
0 20 40 60 km

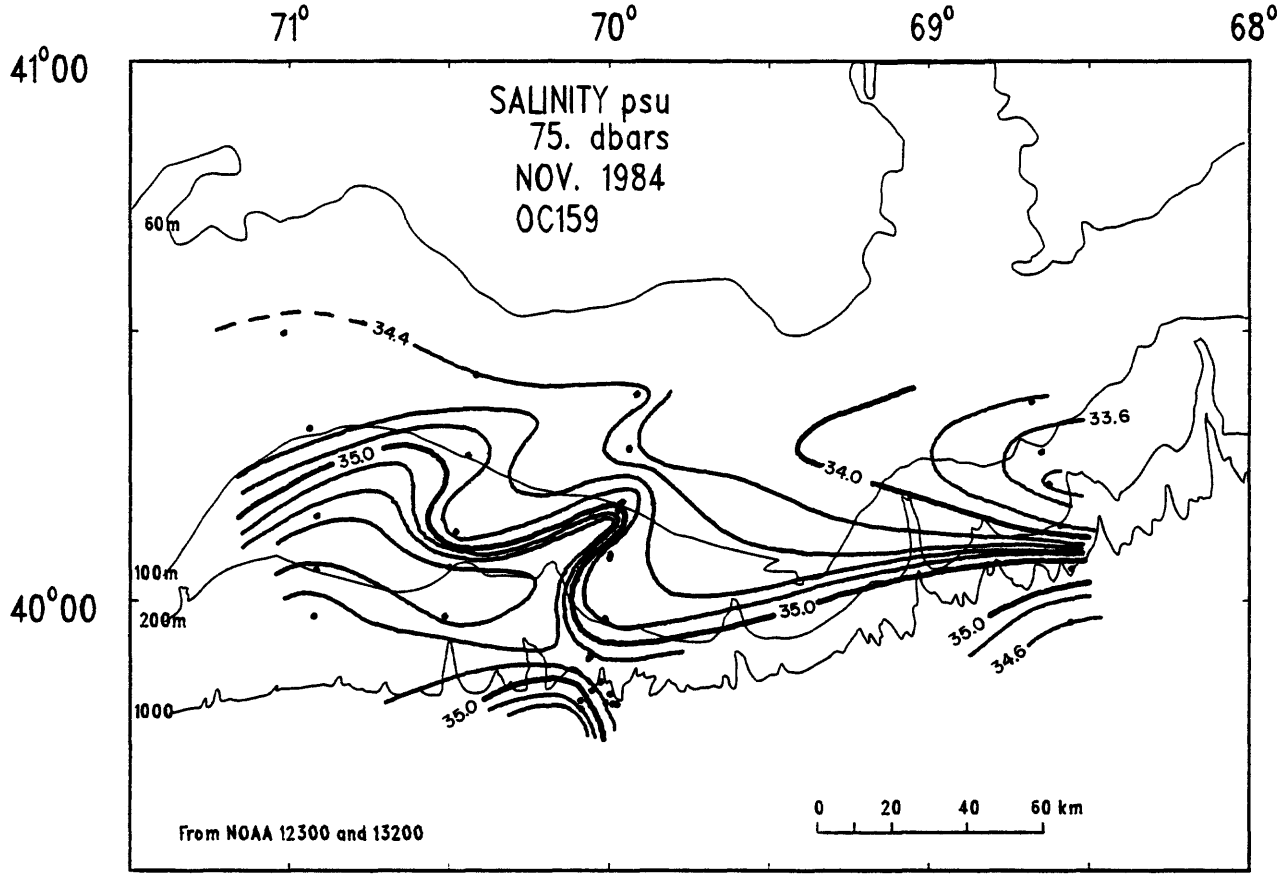

71°
70°
69°
68°
41°00
40°00
TEMPERATURE °C
50. dbars
NOV. 1984
OC159
60m
100m
200m
1000
12
14
15
15
16
18
From NOAA 12300 and 13200
0 20 40 60 km

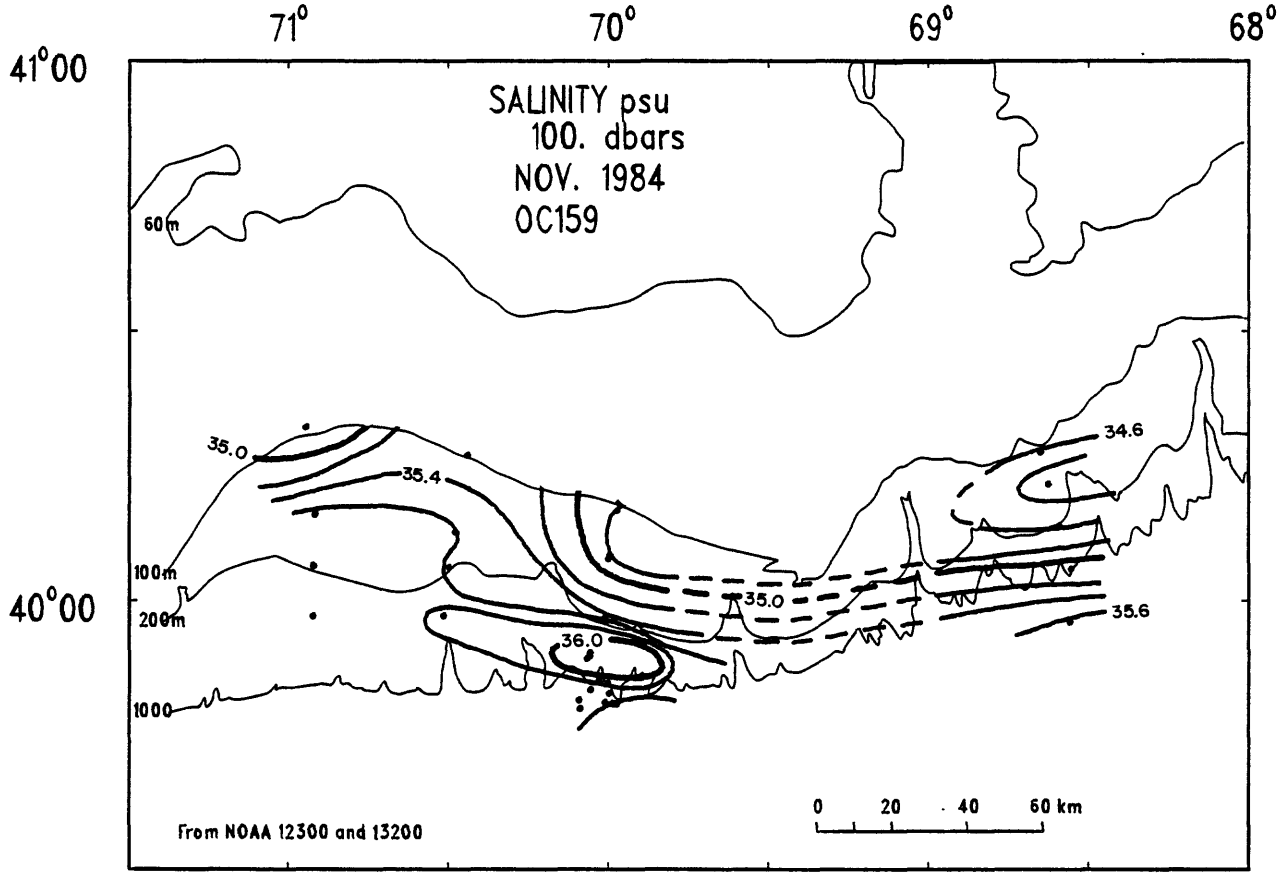

71°
70°
69°
68°
41°00
40°00
TEMPERATURE °C
75. dbars
NOV. 1984
OC159
60m
100m
200m
1000
16
17
15
14
12
From NOAA 12300 and 13200
0 20 40 60 km

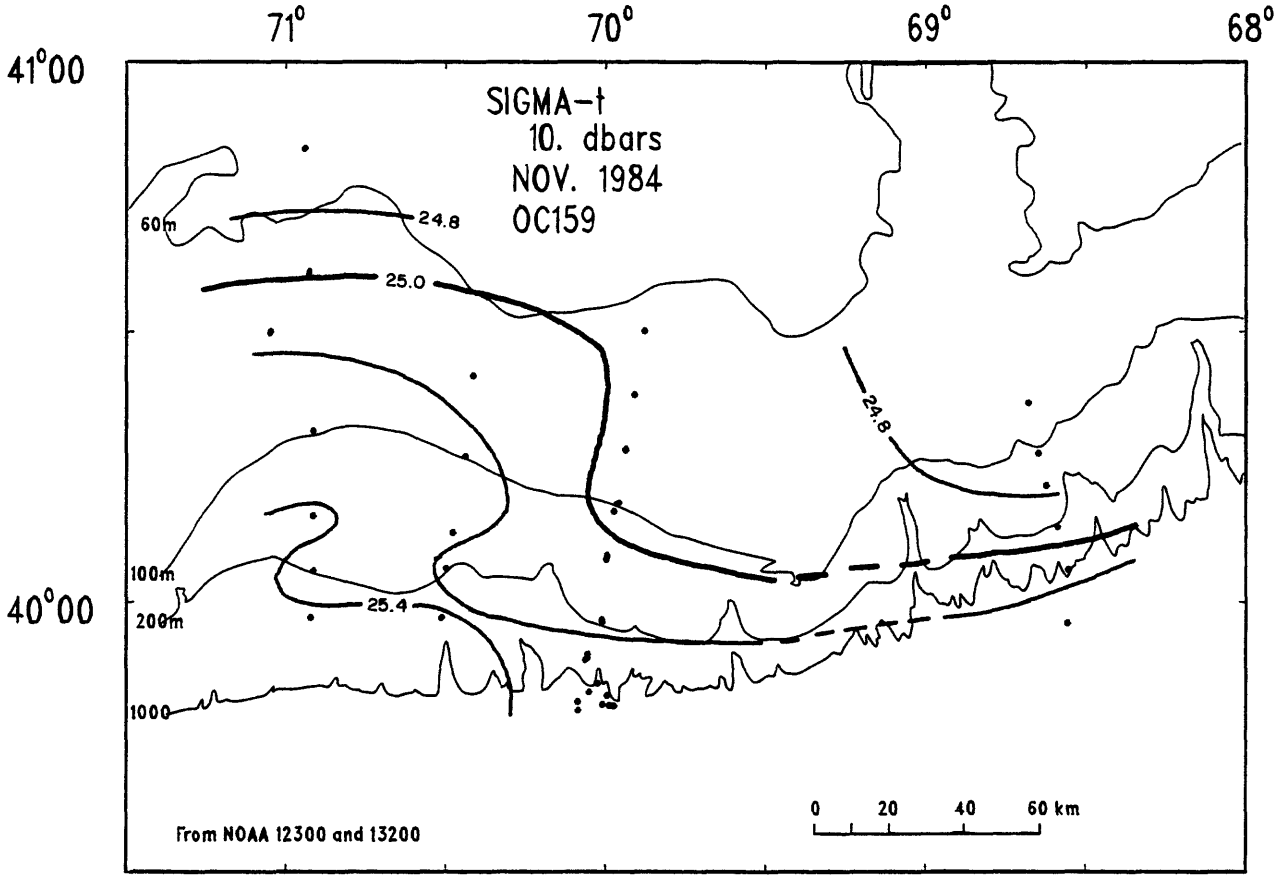

71°
70°
69°
68°
41°00
40°00
TEMPERATURE °C
100. dbars
NOV. 1984
OC159
60m
100m
200m
1000
16
15
14
12
17
From NOAA 12300 and 13200
0 20 40 60 km

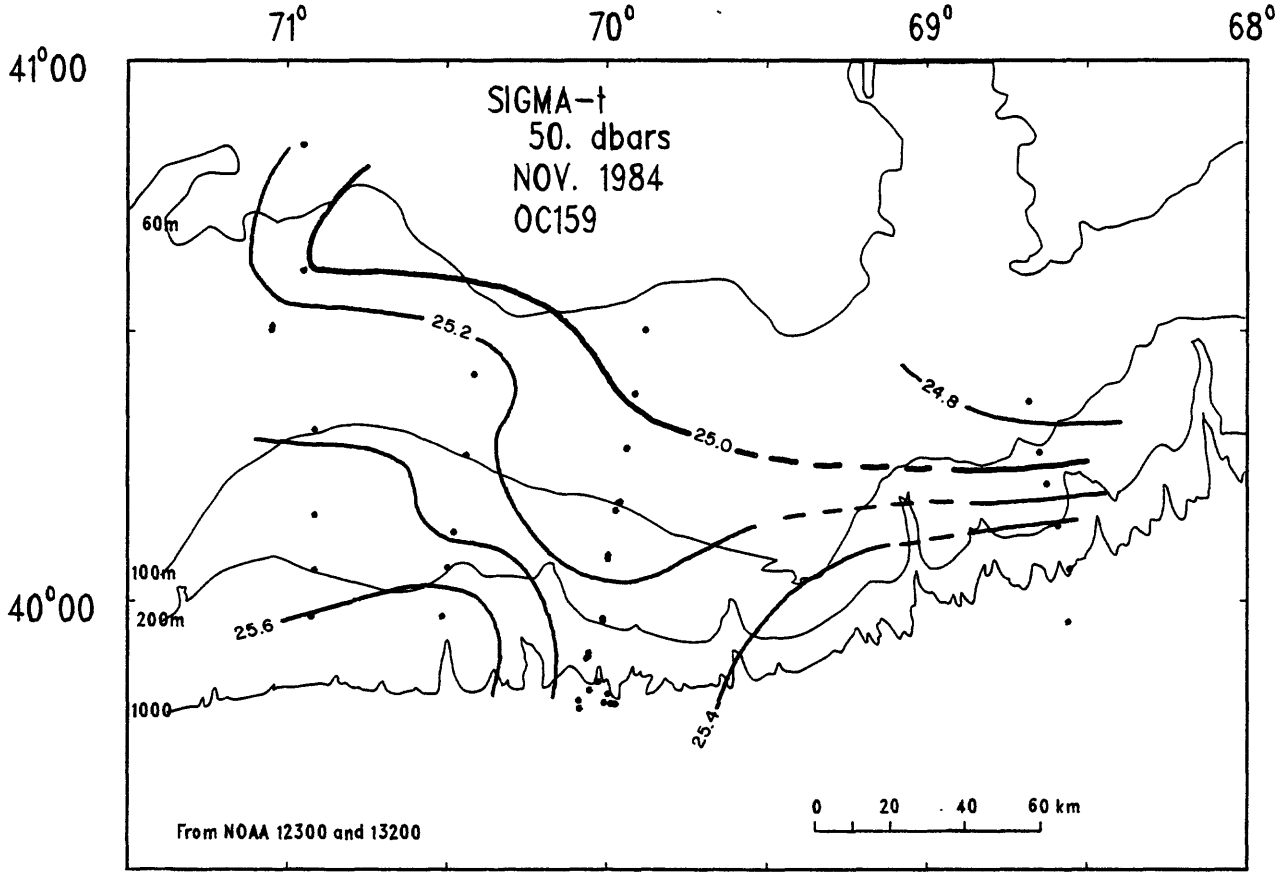

71°
70°
69°
68°
41°00
40°00
SALINITY psu
10. dbars
NOV. 1984
OC159
32.8
33.0
33.4
34.4
35.0
33.0
32.6
34.0
60m
100m
200m
1000
From NOAA 12300 and 13200
0 20 40 60 km

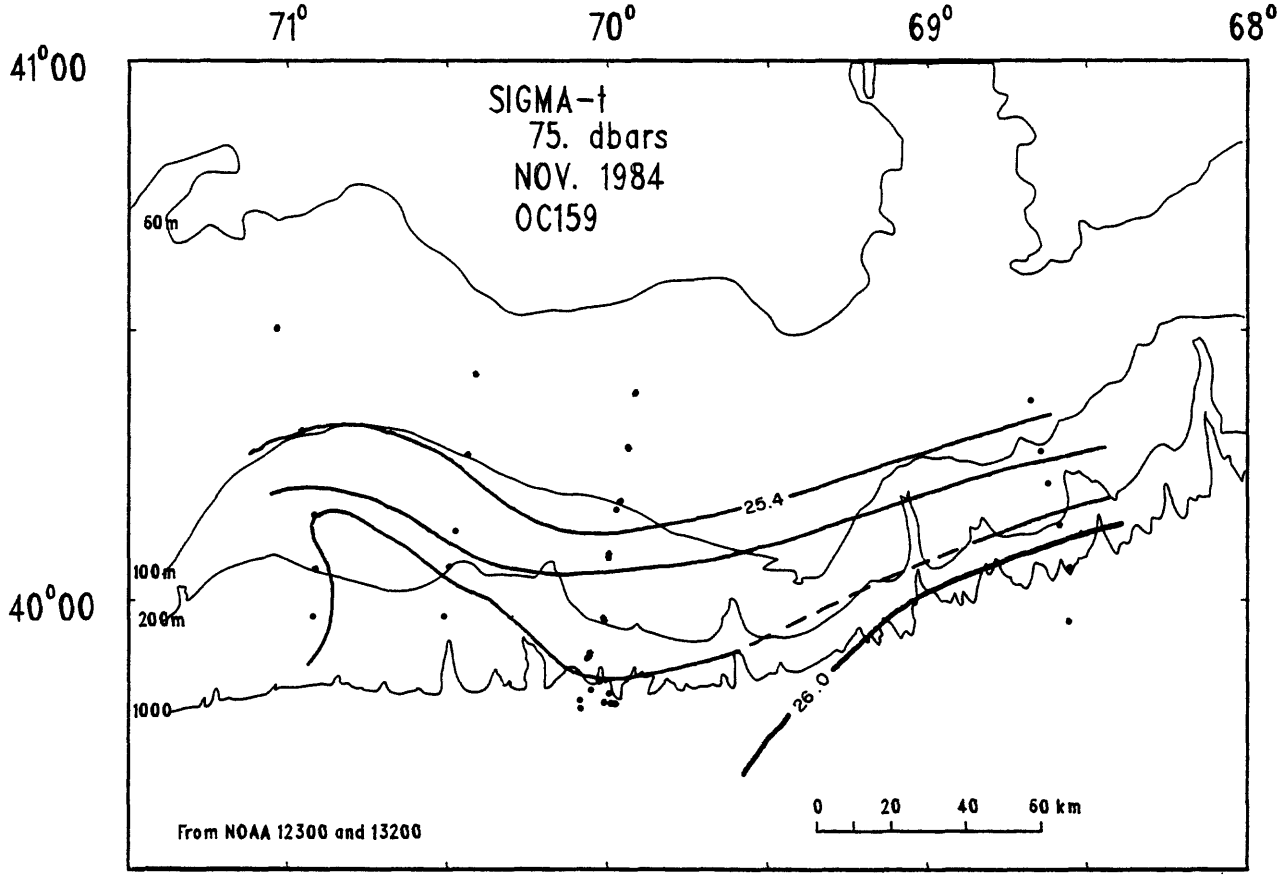

71°
70°
69°
68°
41°00
40°00
SALINITY psu
50. dbars
NOV. 1984
OC159
34.0
34.0
33.0
35.0
34.0
35.4
35.4
60m
100m
200m
1000
From NOAA 12300 and 13200
0 20 40 60 km

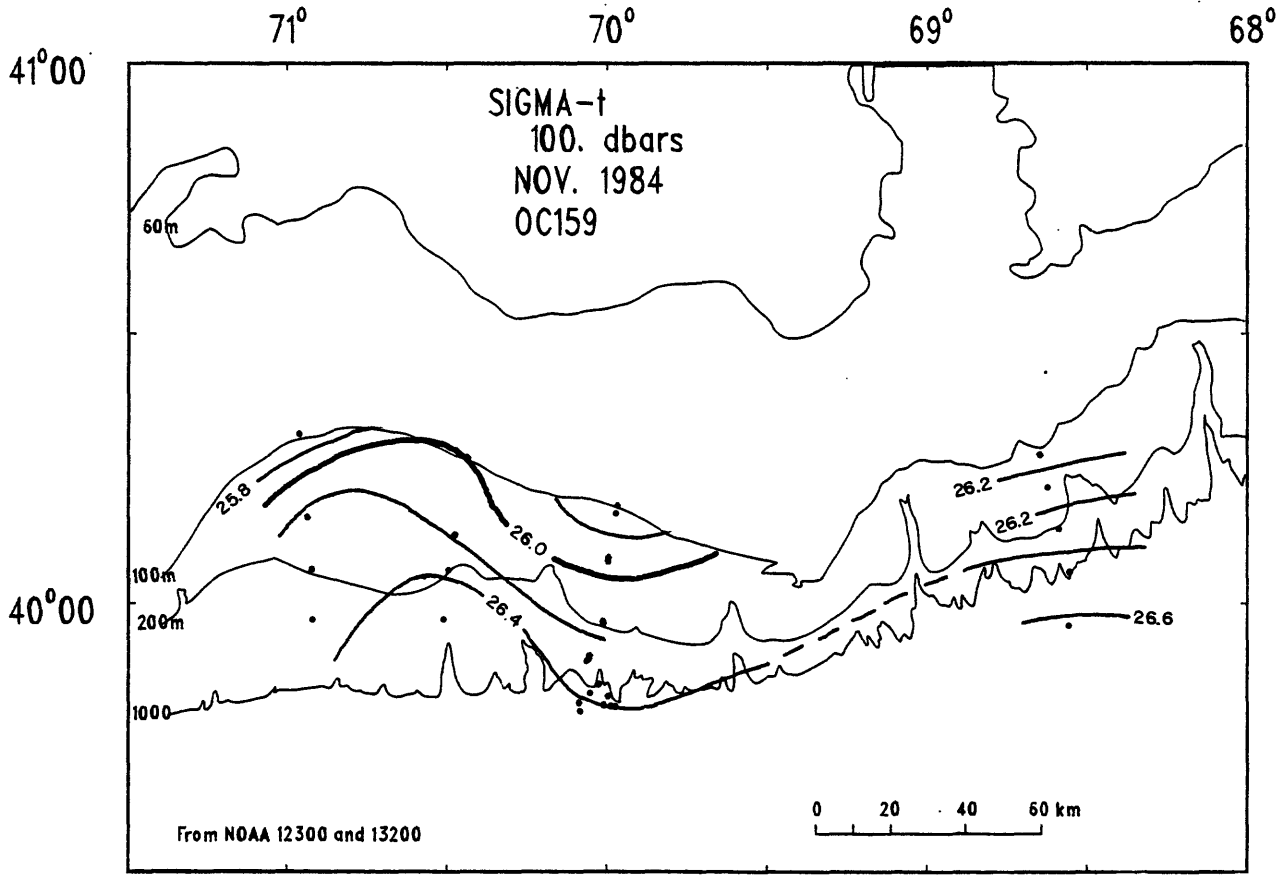

71°
70°
69°
68°
41°00
40°00
SALINITY psu
75. dbars
NOV. 1984
OC159
60m
100m
200m
1000
34.4
35.0
34.0
33.6
35.0
35.0
34.6
35.0
0 20 40 60 km
From NOAA 12300 and 13200

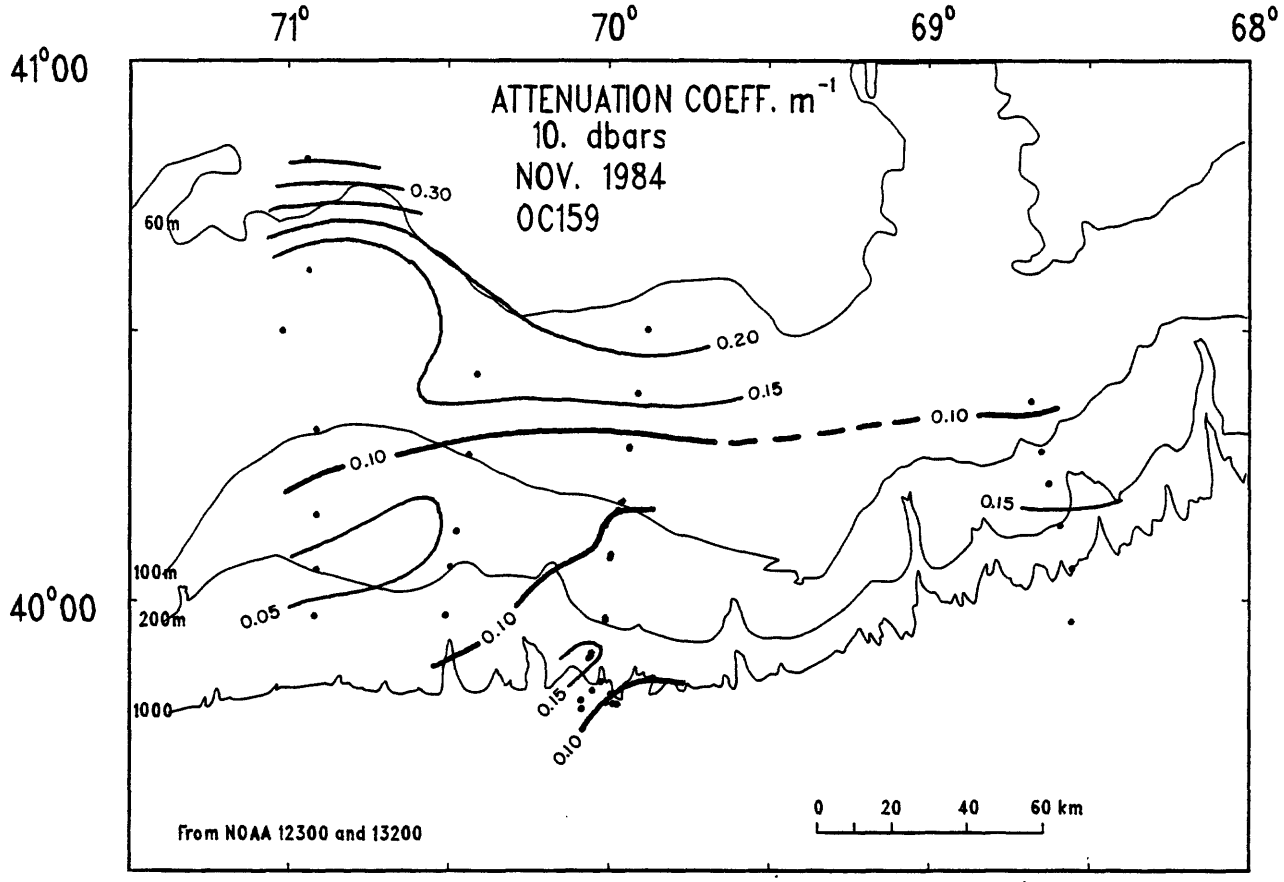

71°
70°
69°
68°
41°00
40°00
SALINITY psu
100. dbars
NOV. 1984
OC159
60m
100m
200m
1000
35.0
35.4
34.6
35.0
35.6
36.0
0 20 40 60 km
From NOAA 12300 and 13200

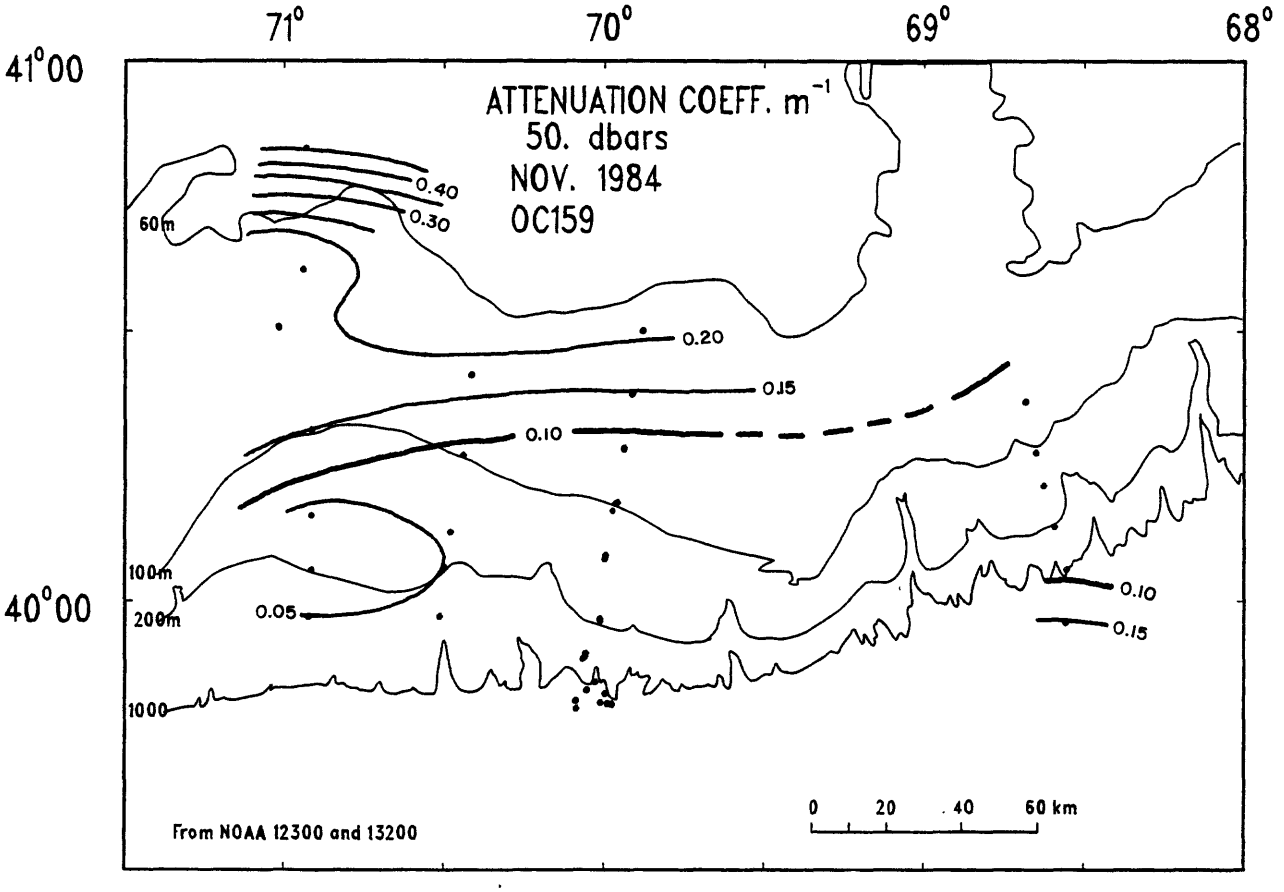

71°
70°
69°
68°
41°00
40°00
SIGMA-t
10. dbars
NOV. 1984
OC159
60m
100m
200m
1000
24.8
25.0
25.4
0 20 40 60 km
From NOAA 12300 and 13200

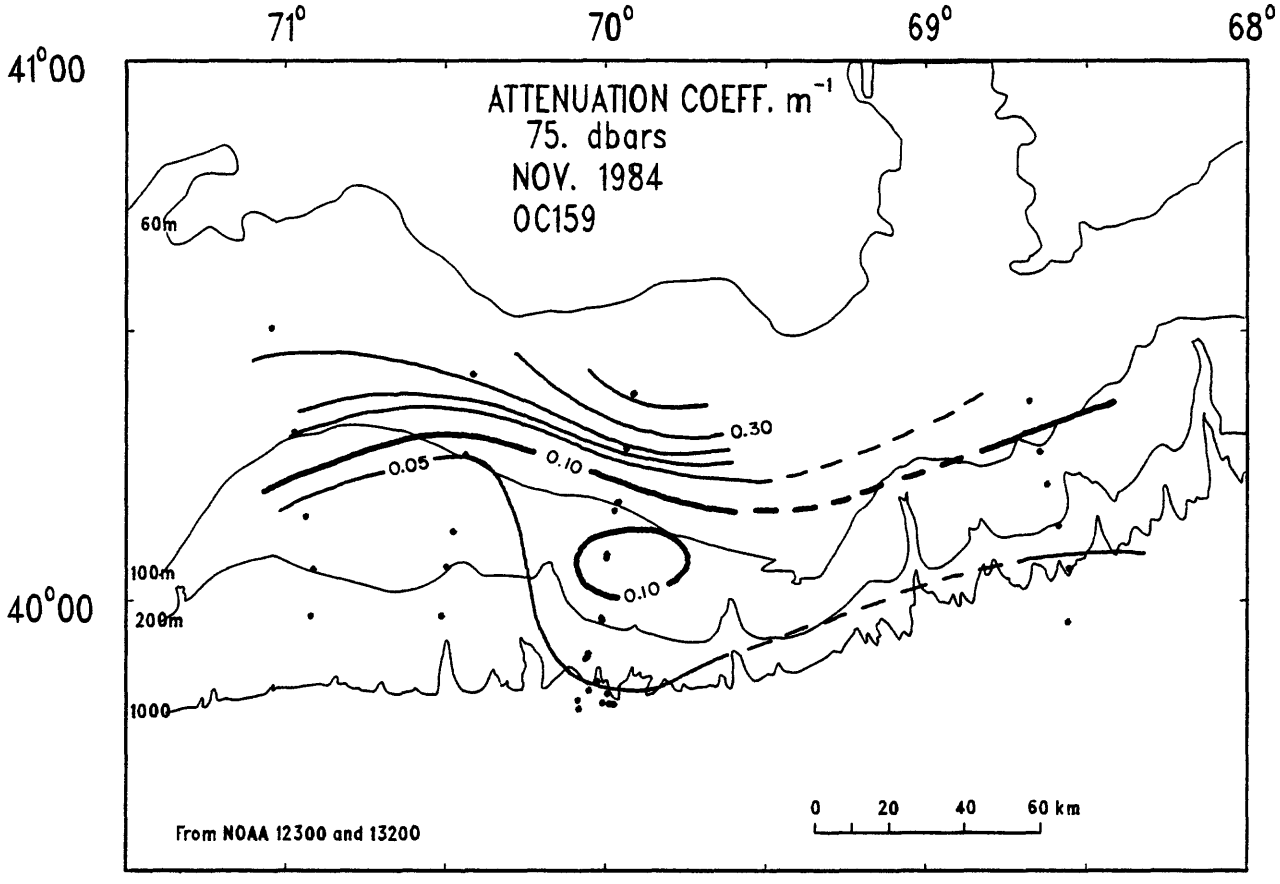

71°
70°
69°
68°
41°00
40°00
SIGMA-t
50. dbars
NOV. 1984
OC159
60m
100m
200m
1000
25.2
25.0
24.8
25.6
25.4
0 20 40 60 km
From NOAA 12300 and 13200

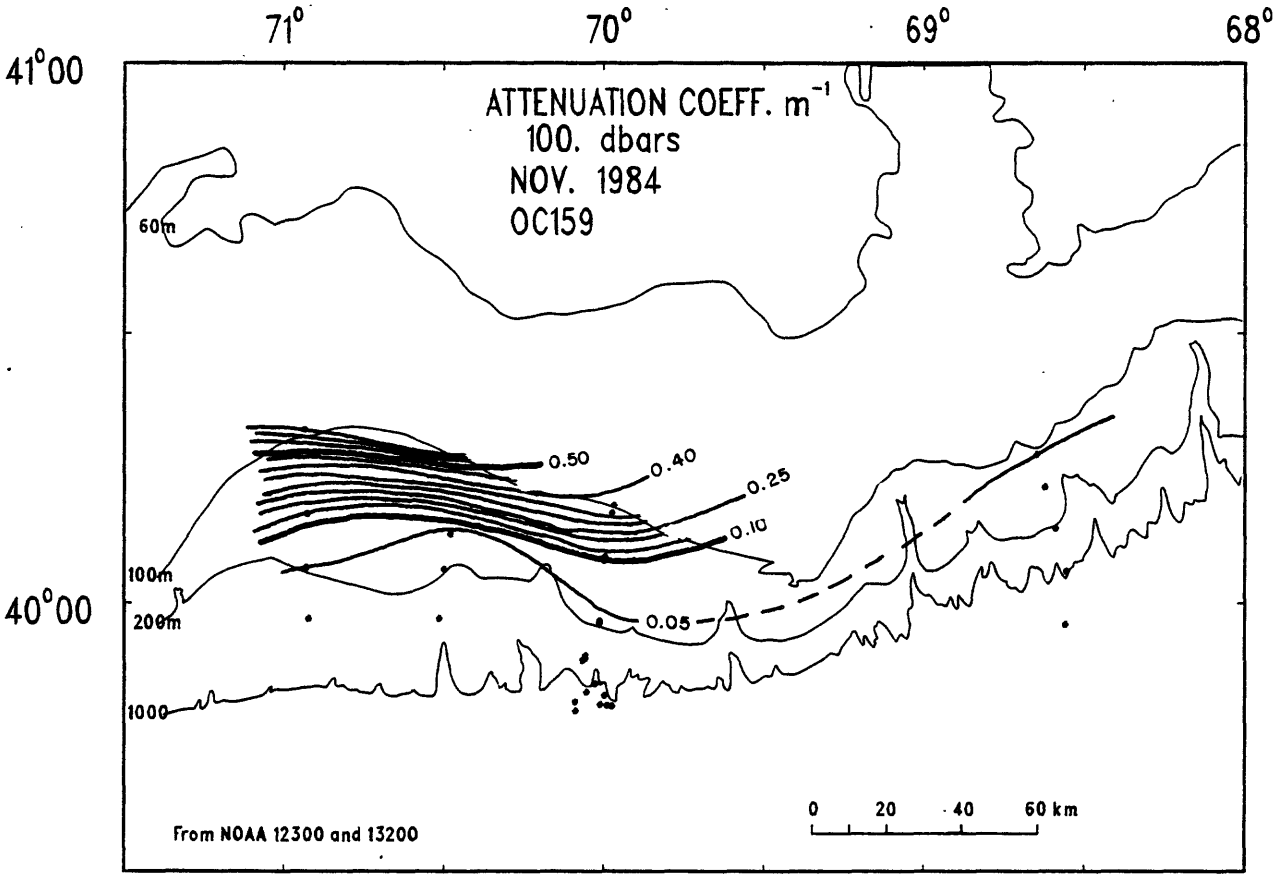

71°
70°
69°
68°
41°00
40°00
SIGMA-t
75. dbars
NOV. 1984
OC159
60m
100m
200m
1000
25.4
26.0
0 20 40 60 km
From NOAA 12300 and 13200

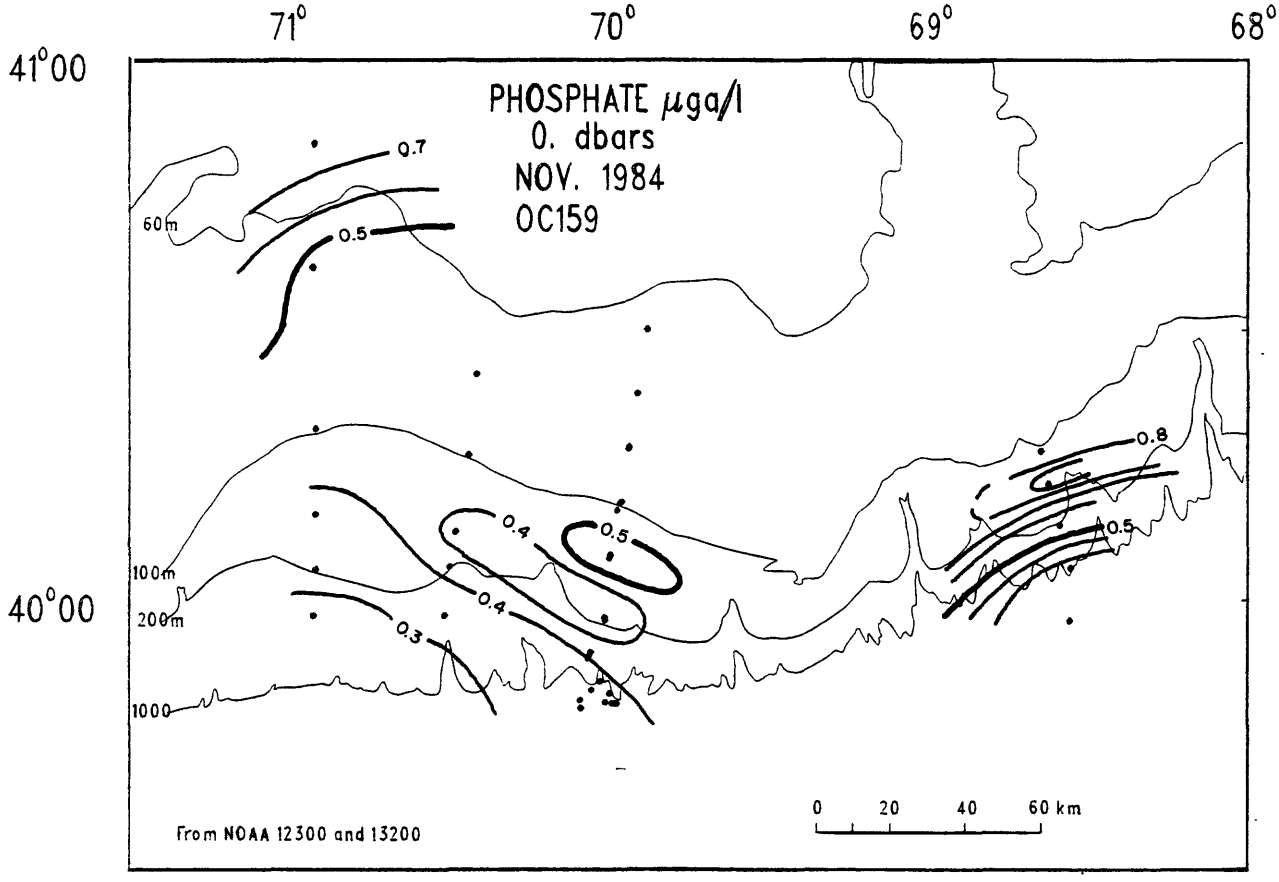

71°
70°
69°
68°
41°00
40°00
SIGMA-t
100. dbars
NOV. 1984
OC159
60m
100m
200m
1000
25.8
26.0
26.4
26.2
26.2
26.6
0 20 40 60 km
From NOAA 12300 and 13200

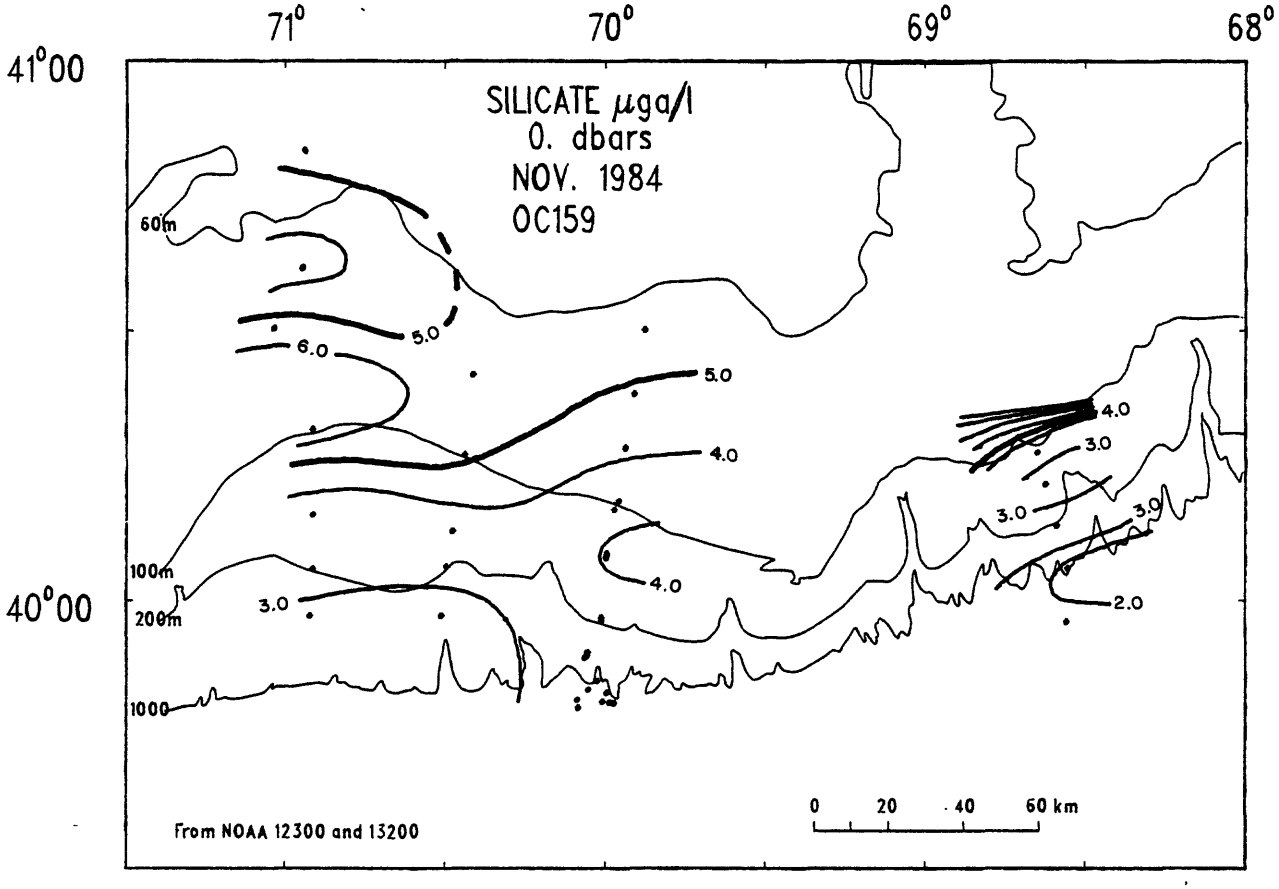

71°
70°
69°
68°
41°00
40°00
ATTENUATION COEFF. m⁻¹
10. dbars
NOV. 1984
OC159
0.30
0.20
0.15
0.10
0.10
0.15
0.05
0.10
0.15
0.10
60m
100m
200m
1000
From NOAA 12300 and 13200
0 20 40 60 km

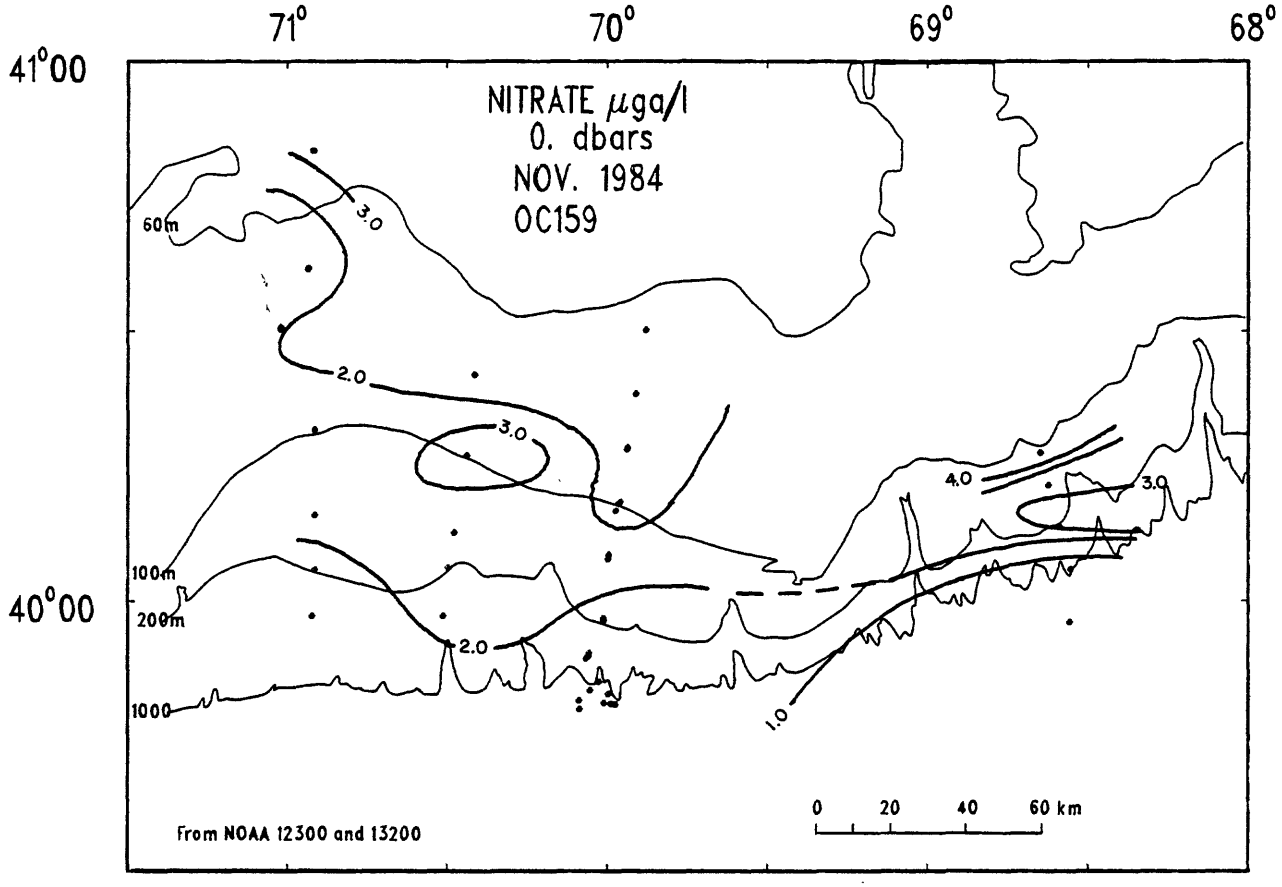

71°
70°
69°
68°
41°00
40°00
ATTENUATION COEFF. m⁻¹
50. dbars
NOV. 1984
OC159
0.40
0.30
0.20
0.15
0.10
0.10
0.15
0.05
60m
100m
200m
1000
From NOAA 12300 and 13200
0 20 40 60 km

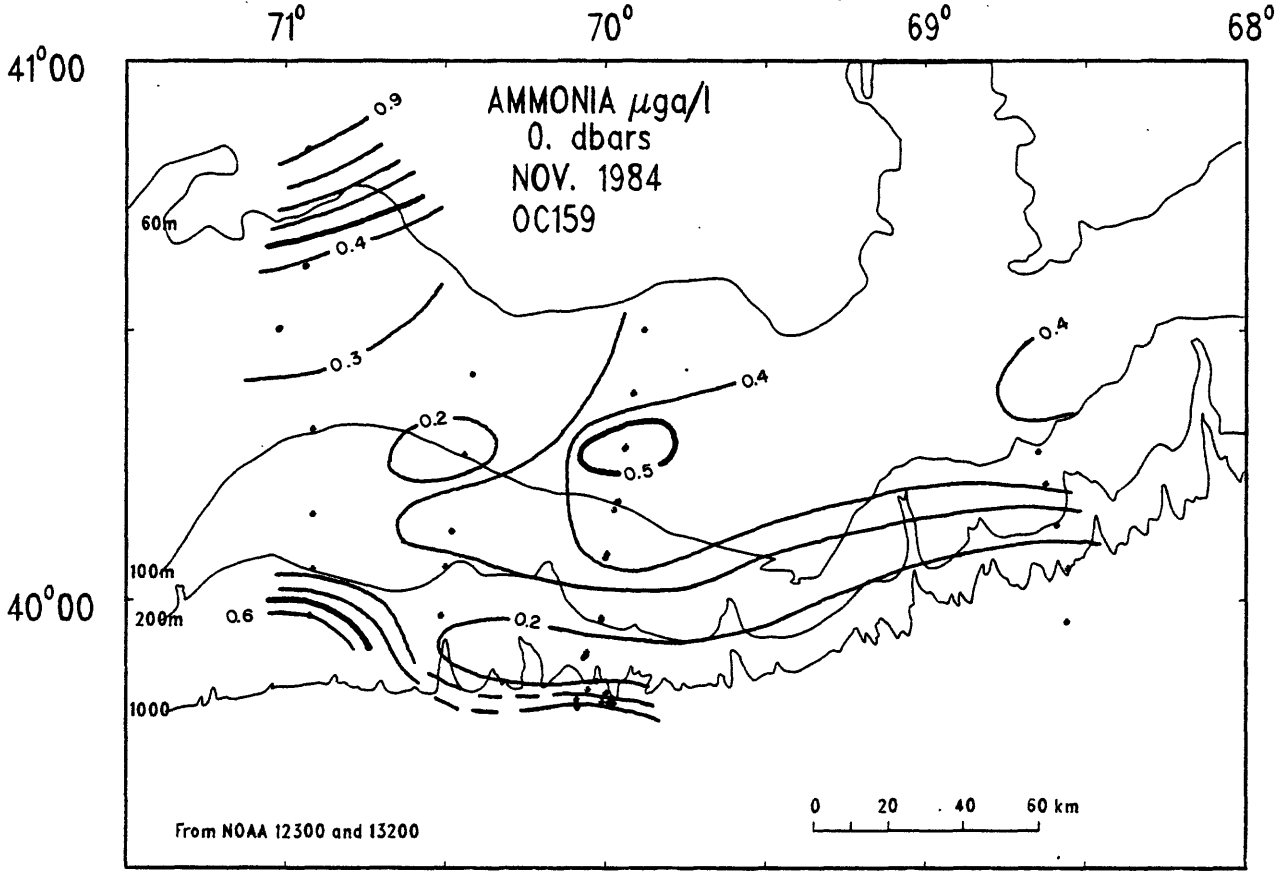

71°
70°
69°
68°
41°00
40°00
ATTENUATION COEFF. m⁻¹
75. dbars
NOV. 1984
OC159
60m
100m
200m
1000
0.30
0.10
0.05
0.10
0 20 40 60 km
From NOAA 12300 and 13200


71°
70°
69°
68°
41°00
40°00
ATTENUATION COEFF. m⁻¹
100. dbars
NOV. 1984
OC159
60m
100m
200m
1000
0.50
0.40
0.25
0.10
0.05
0 20 40 60 km
From NOAA 12300 and 13200


71°
70°
69°
68°
41°00
40°00
PHOSPHATE µga/l
0. dbars
NOV. 1984
OC159
0.7
0.5
0.8
0.5
0.4
0.5
0.4
0.3
60m
100m
200m
1000
0 20 40 60 km
From NOAA 12300 and 13200


71°
70°
69°
68°
41°00
40°00
SILICATE µga/l
0. dbars
NOV. 1984
OC159
6.0
5.0
5.0
4.0
4.0
3.0
3.0
3.0
2.0
60m
100m
200m
1000
0 20 40 60 km
From NOAA 12300 and 13200

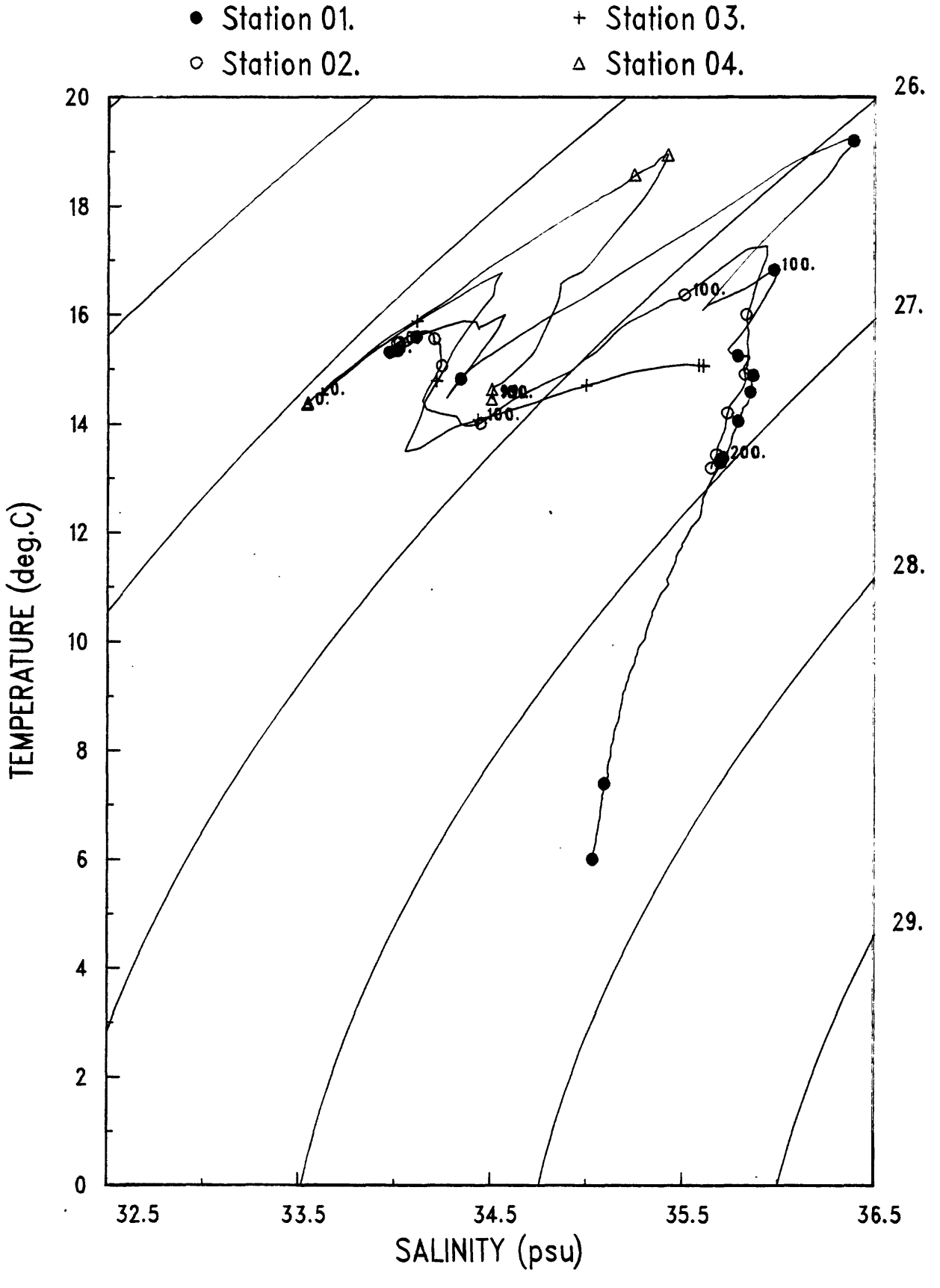

71°
70°
69°
68°
41°00
40°00
NITRATE µga/l
0. dbars
NOV. 1984
OC159
60m
100m
200m
1000
3.0
2.0
3.0
4.0
3.0
2.0
1.0
From NOAA 12300 and 13200
0 20 40 60 km


71°
70°
69°
68°
41°00
40°00
AMMONIA µga/l
0. dbars
NOV. 1984
OC159
60m
100m
200m
1000
0.9
0.4
0.3
0.2
0.4
0.5
0.4
0.6
0.2
From NOAA 12300 and 13200
0 20 40 60 km

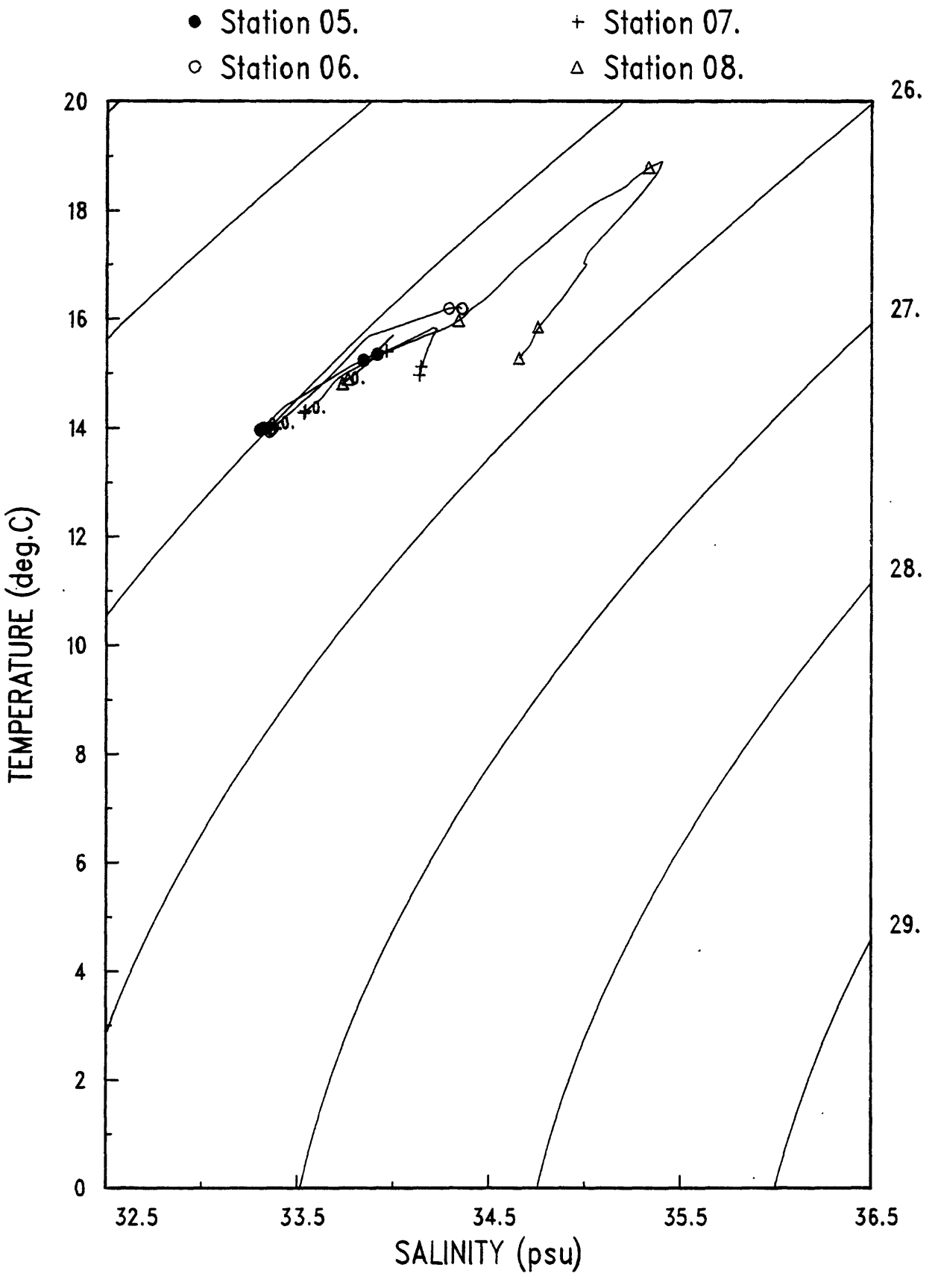
Temperature salinity diagrams

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

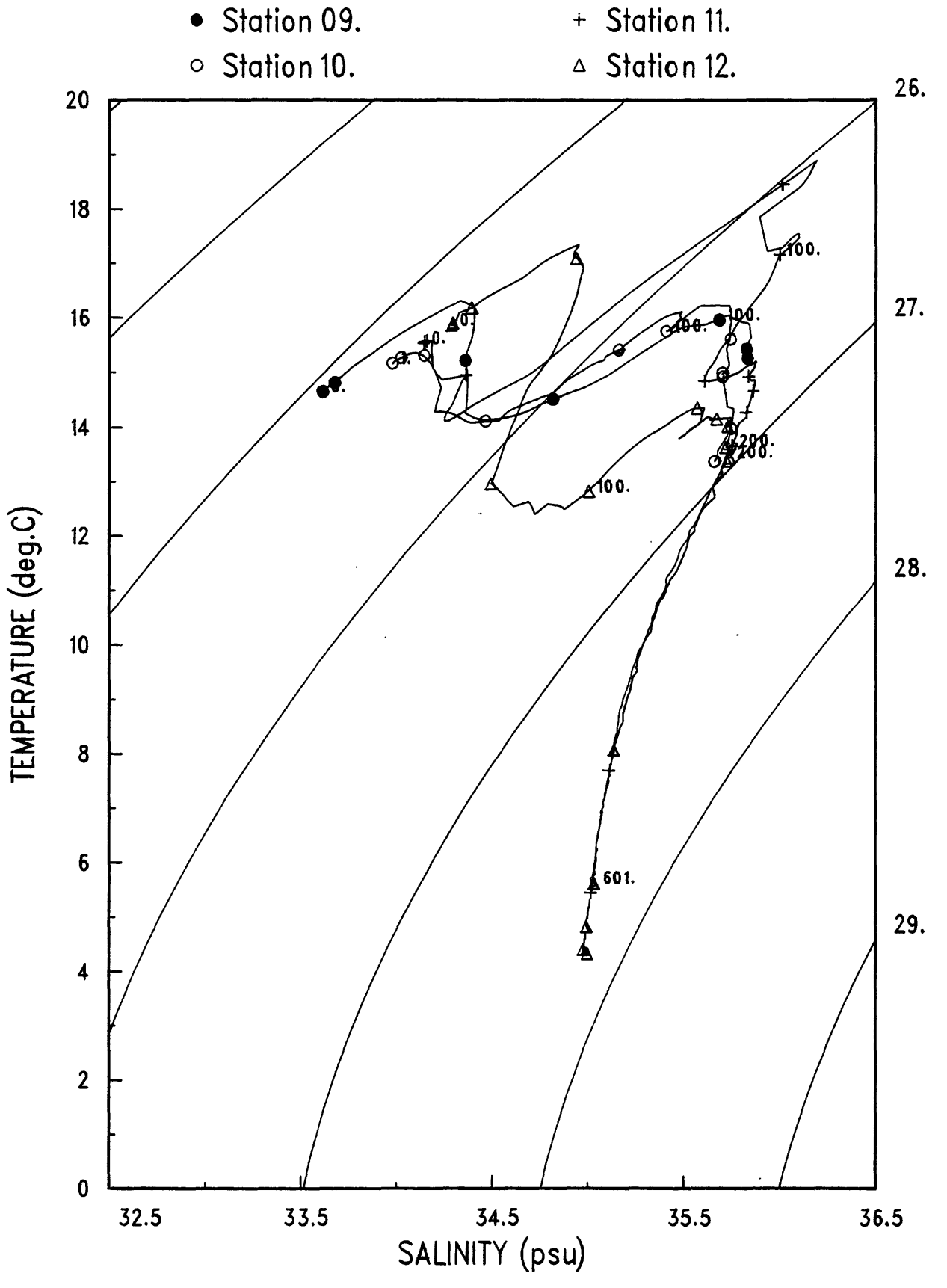
OC159--TS Diagram--Section 1



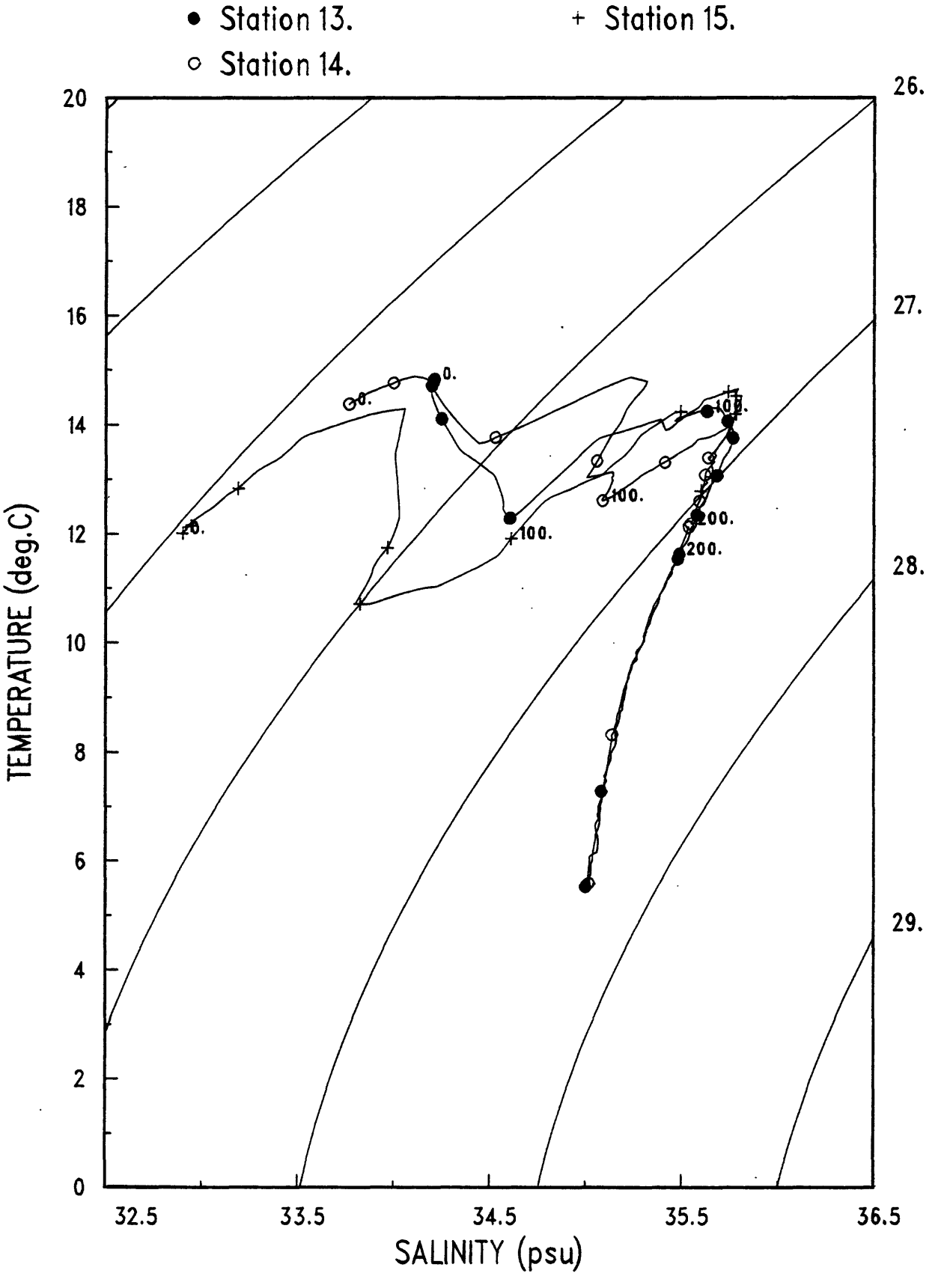
OC159--TS Diagram--Section 2



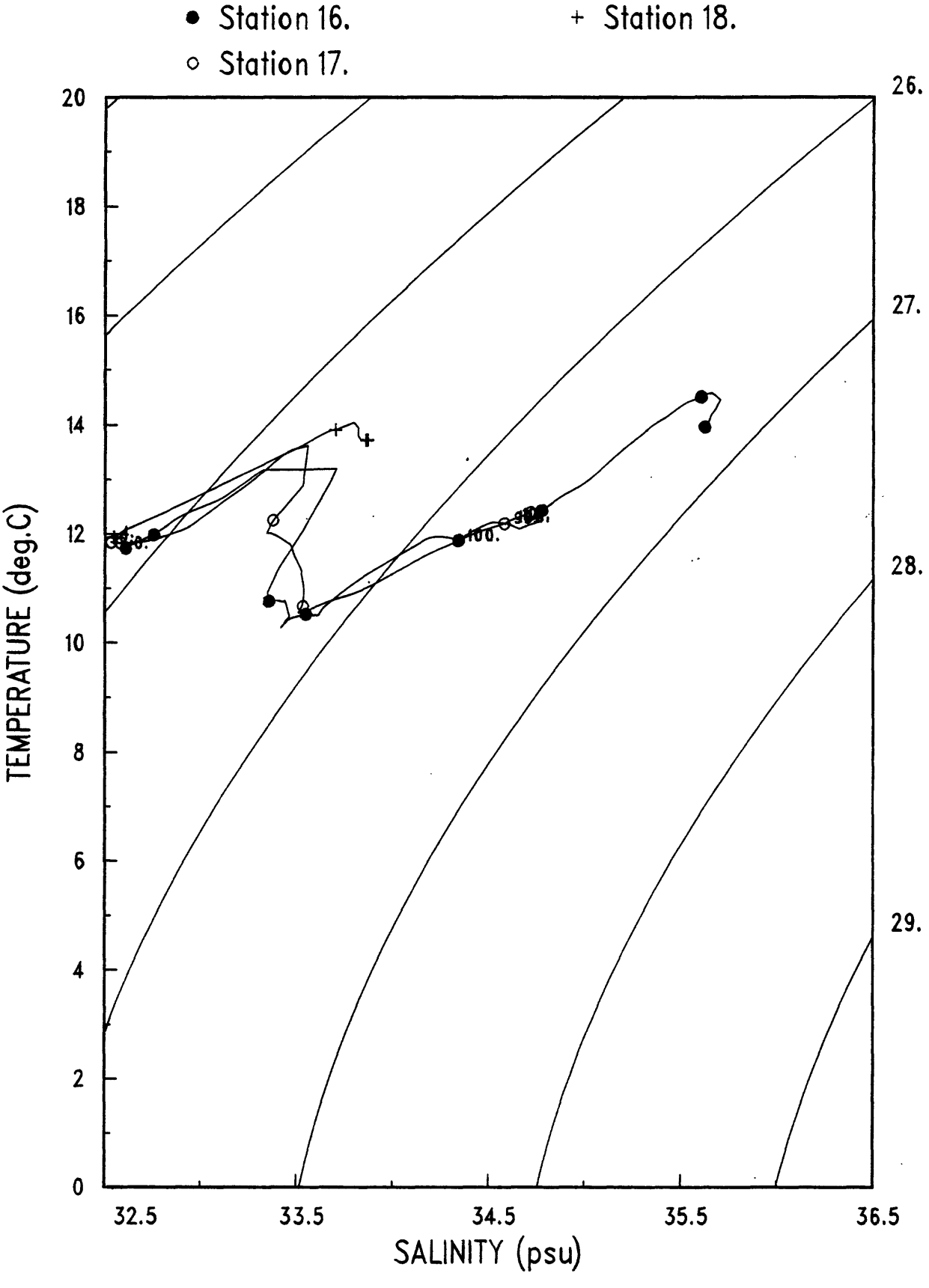
OC159--TS Diagram--Section 2



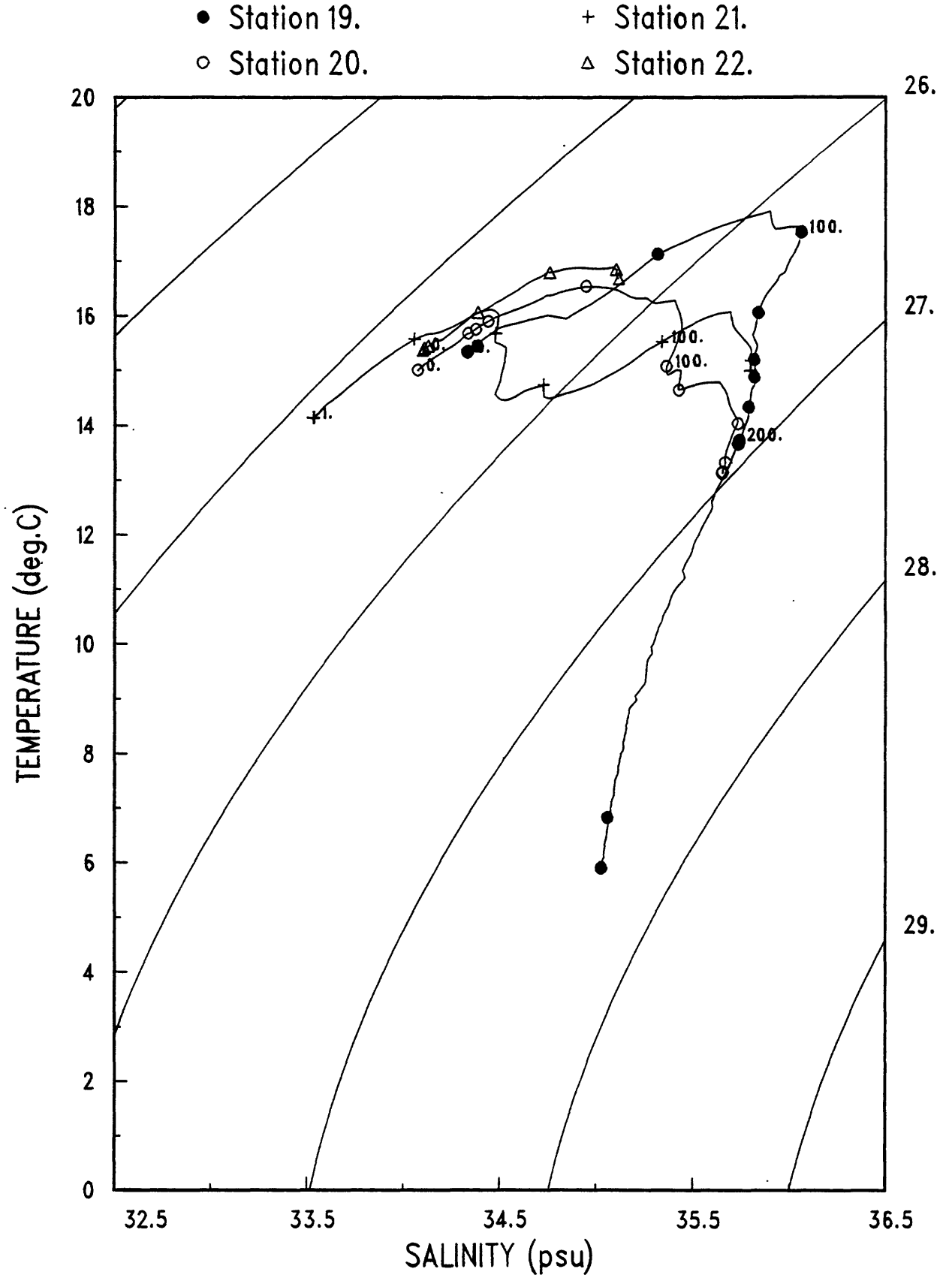
OC159--TS Diagram--Section 3



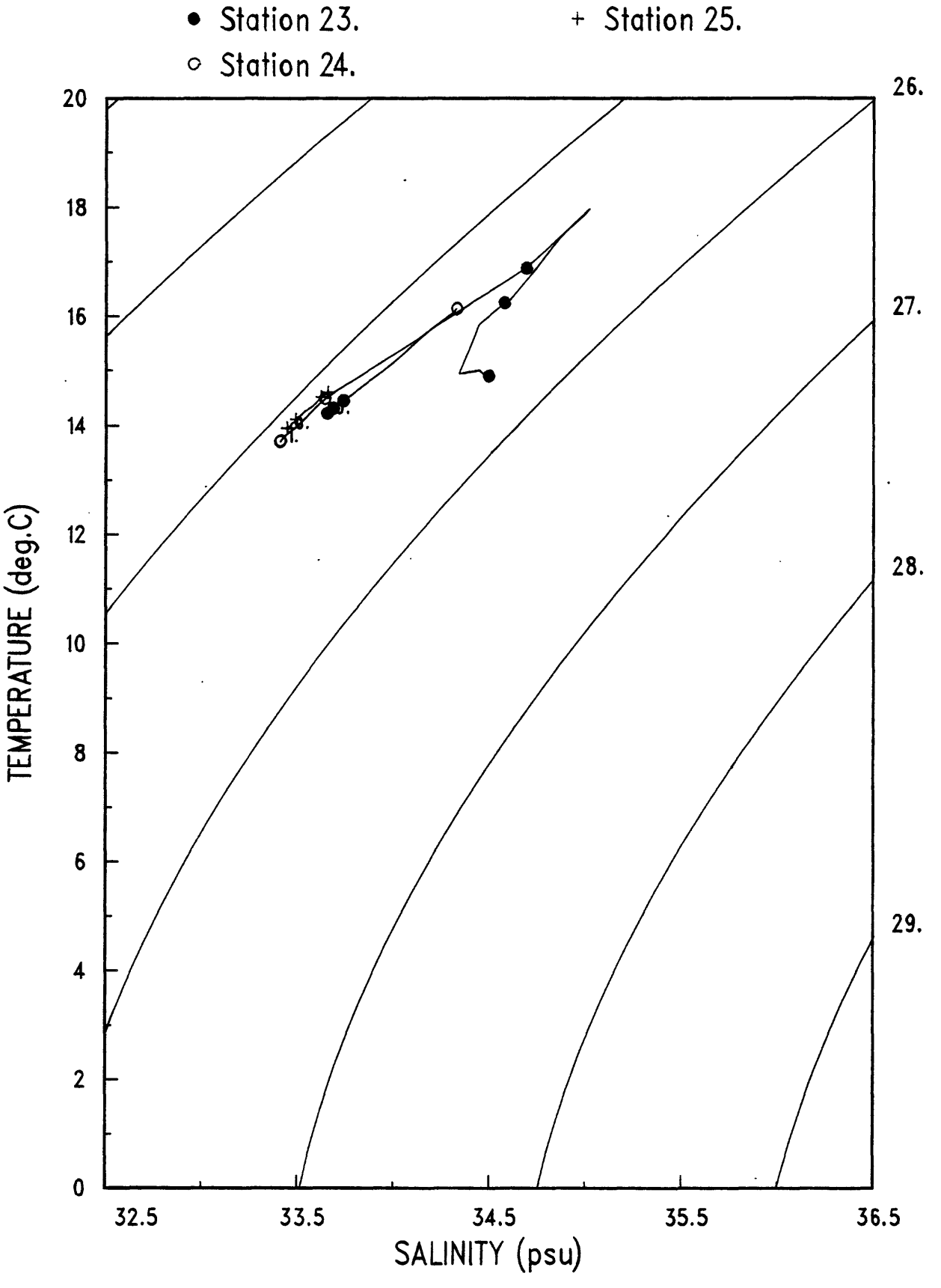
OC159--TS Diagram--Section 3



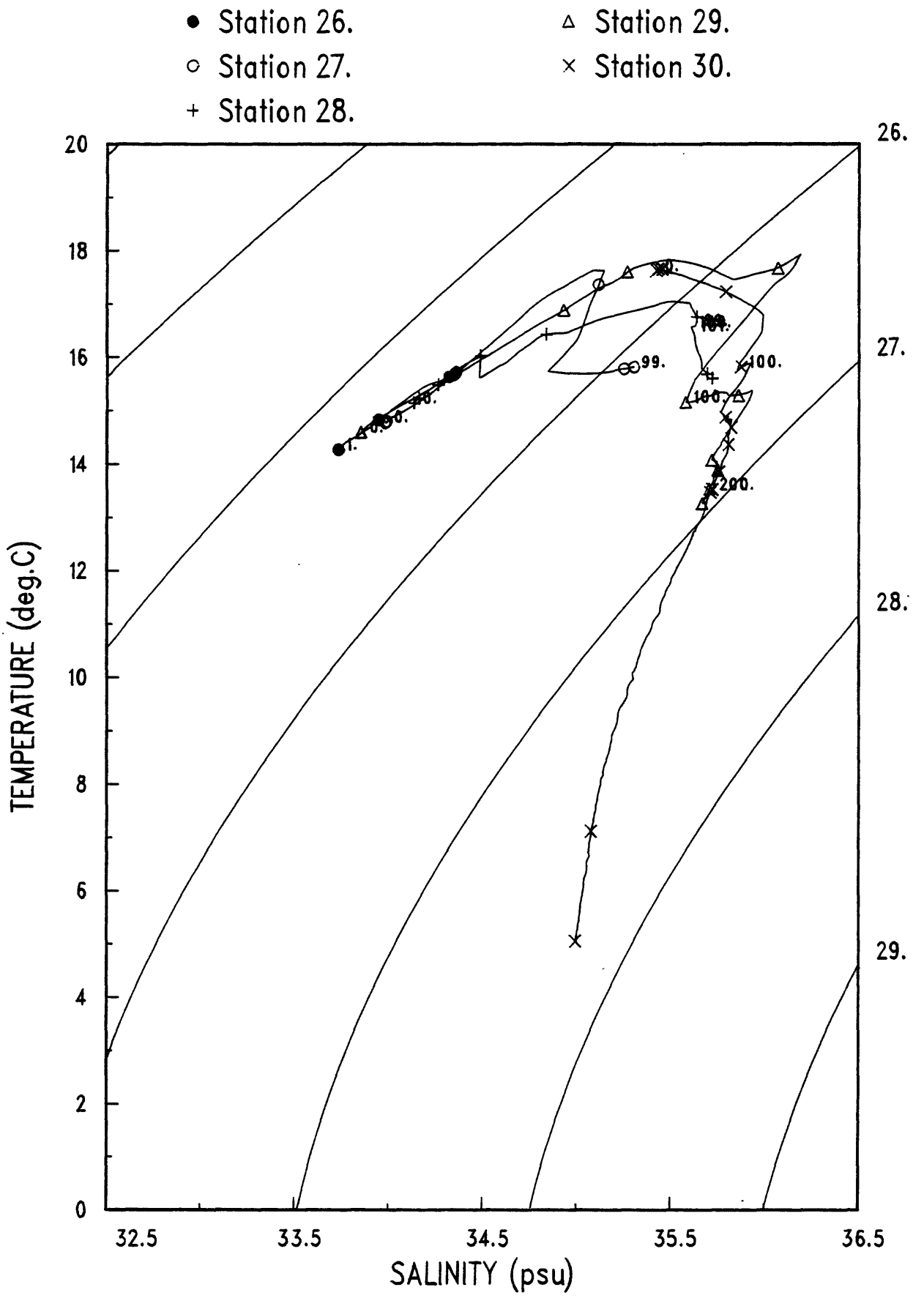
OC159--TS Diagram--Section 4



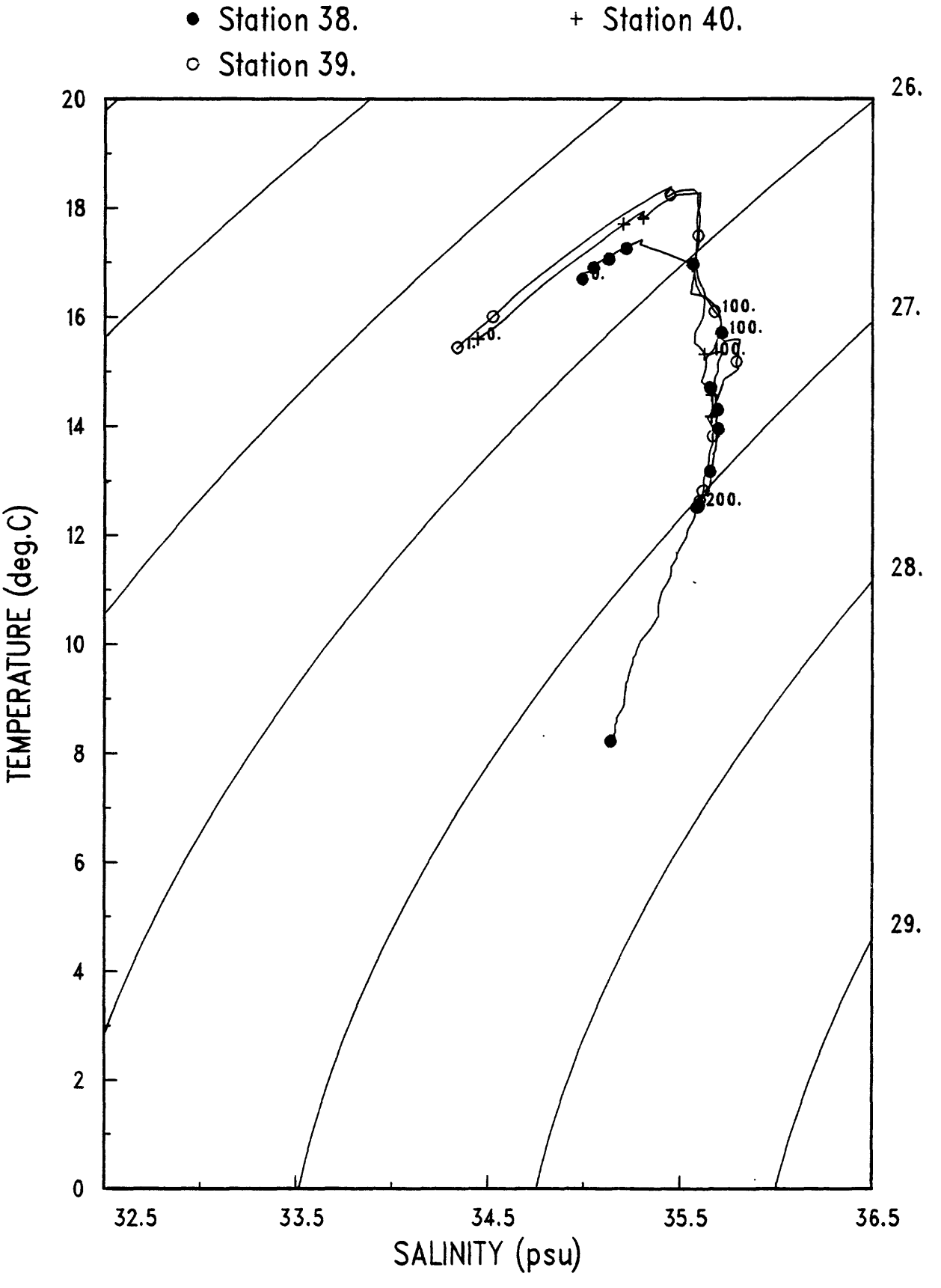
OC159--TS Diagram--Section 4



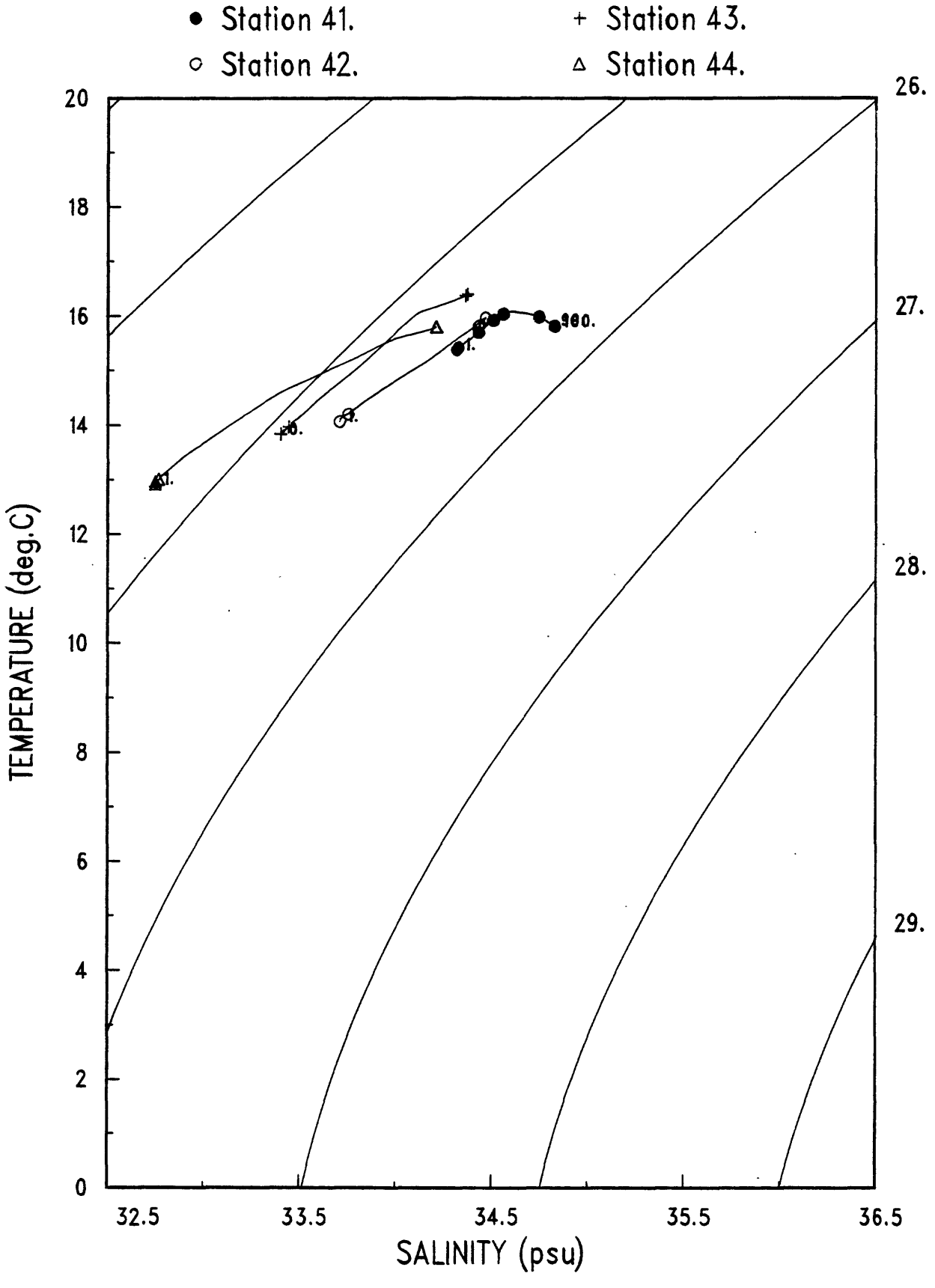
OC159--TS Diagram--Section 5



OC159--TS Diagram--Section 6



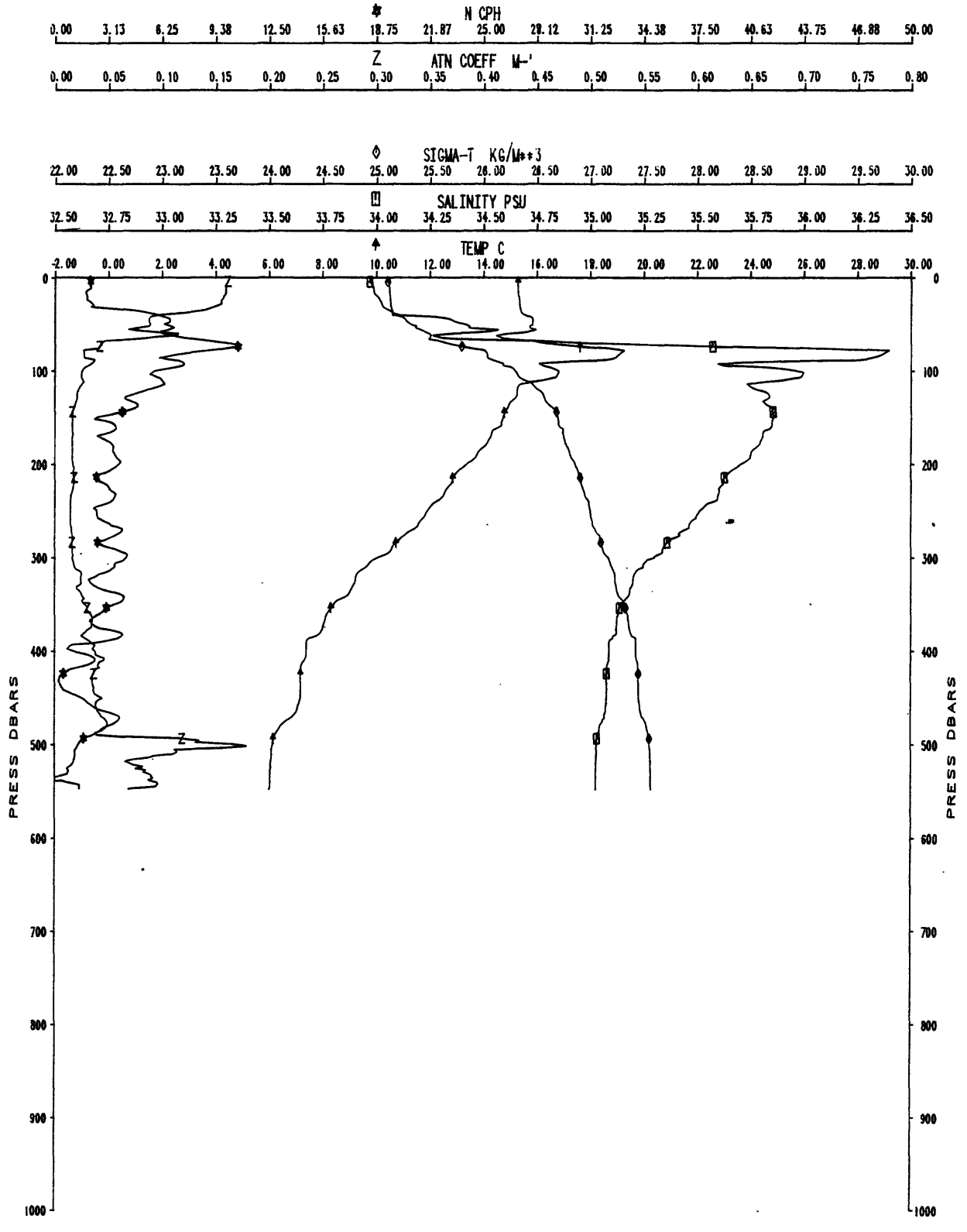
OC159--TS Diagram--Section 6



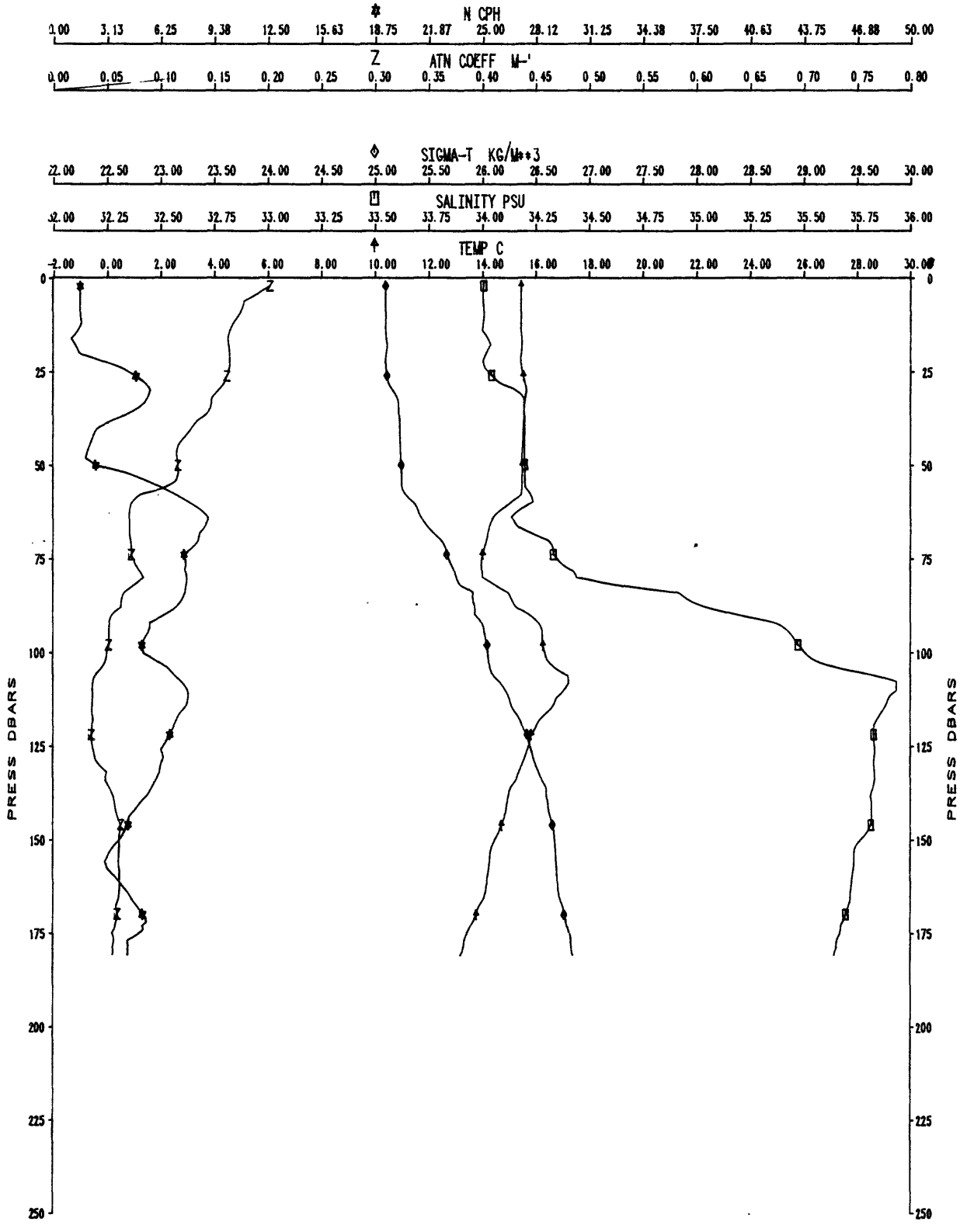
Station profiles

Vertical profiles of temperature, salinity, sigma-t, oxygen, attenuation coefficient, and Brunt-Vaisala frequency at each station (figures 26-66). The profiles are drawn using the 2-dbar-averaged data; at approximately 10 dbars above the bottom, the averaging interval becomes 1 dbar. The data are listed in Appendix I. The different symbols used to distinguish variables are shown on each variable axis. The units of salinity are practical salinity units (psu) and are defined by Lewis (1980). The XBT's at station 32, 34 and 36 malfunctioned and no plots are included.

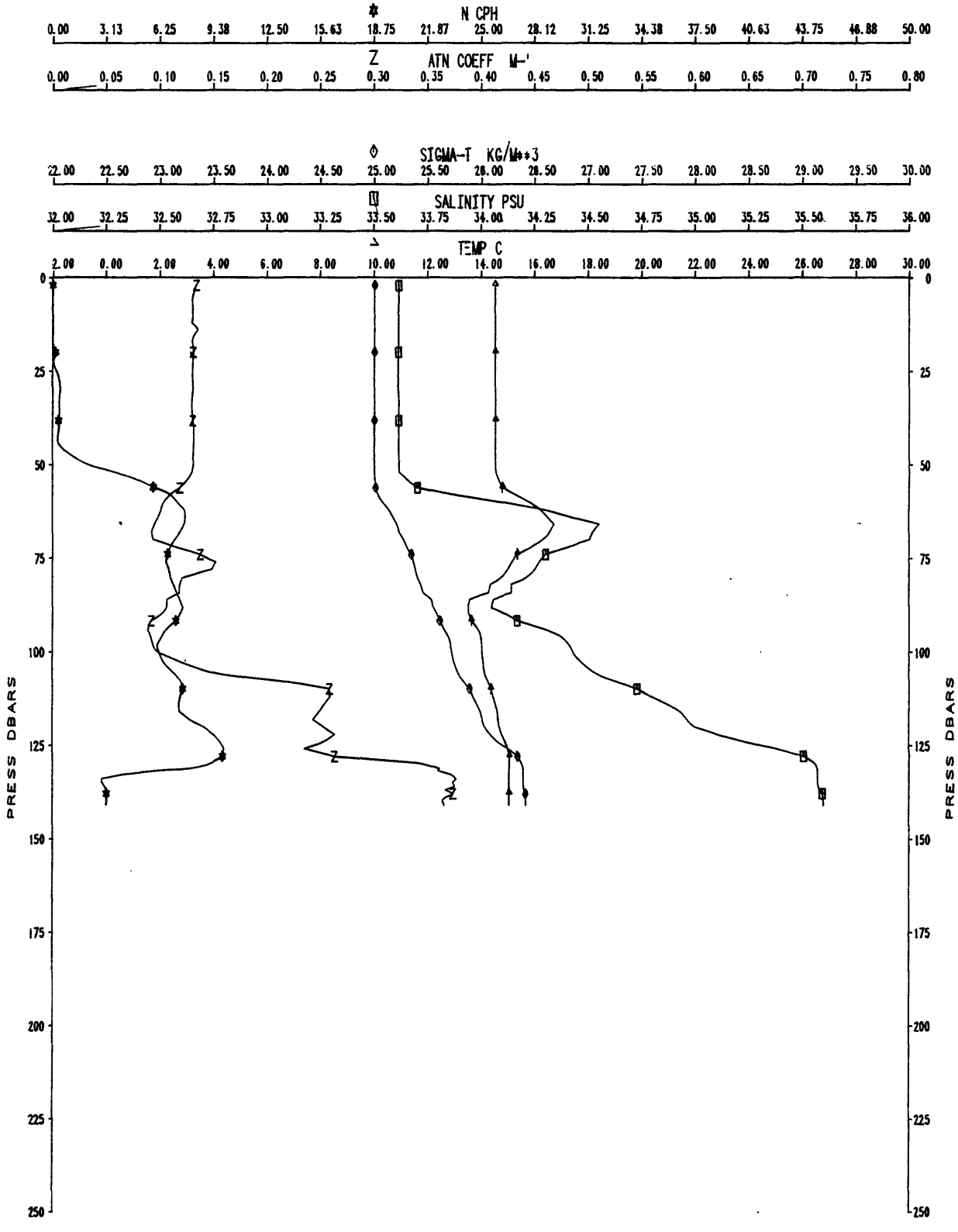
OC159B CAST #1



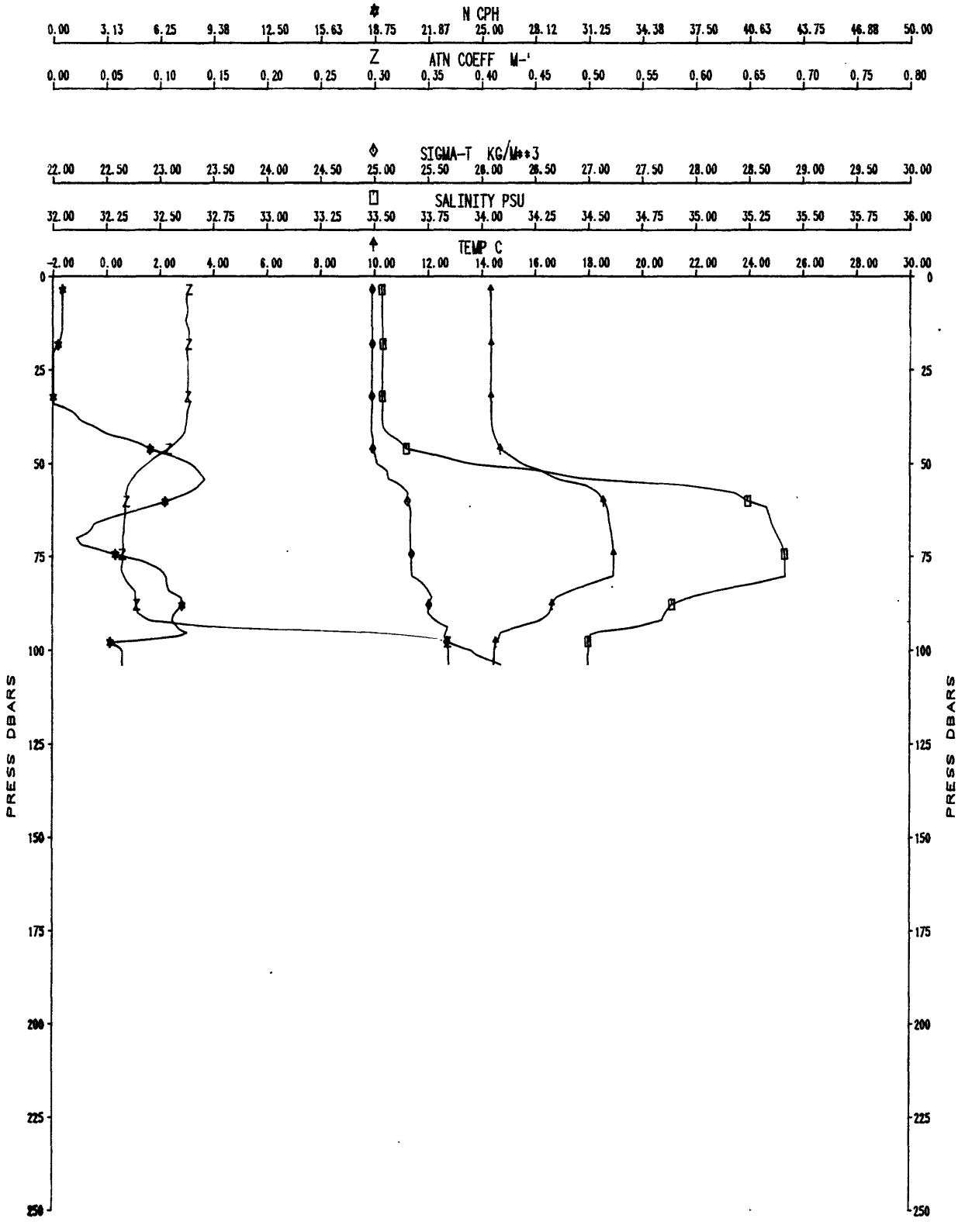
OC159A CAST #2



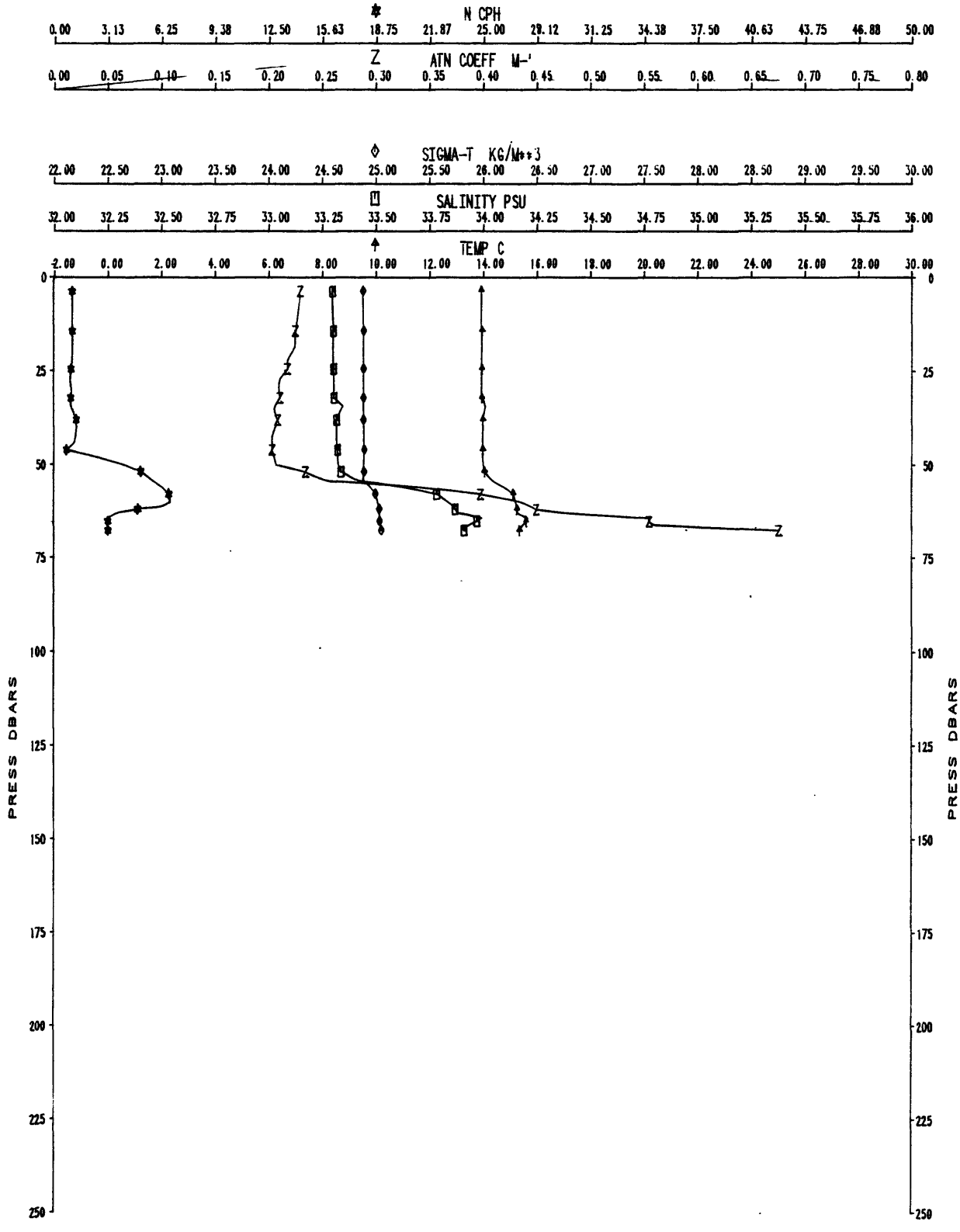
OC159B CAST #3



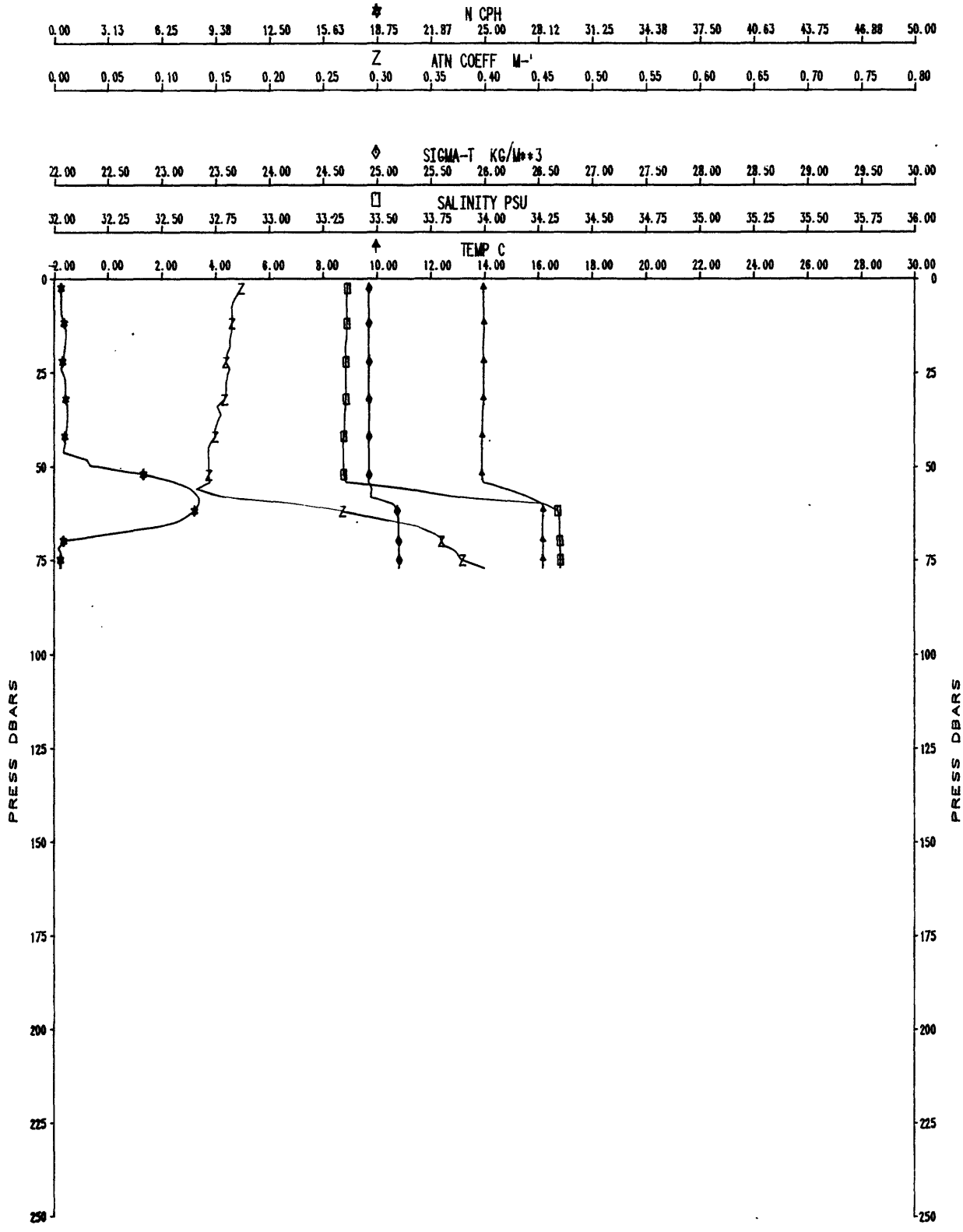
OC159A CAST #4



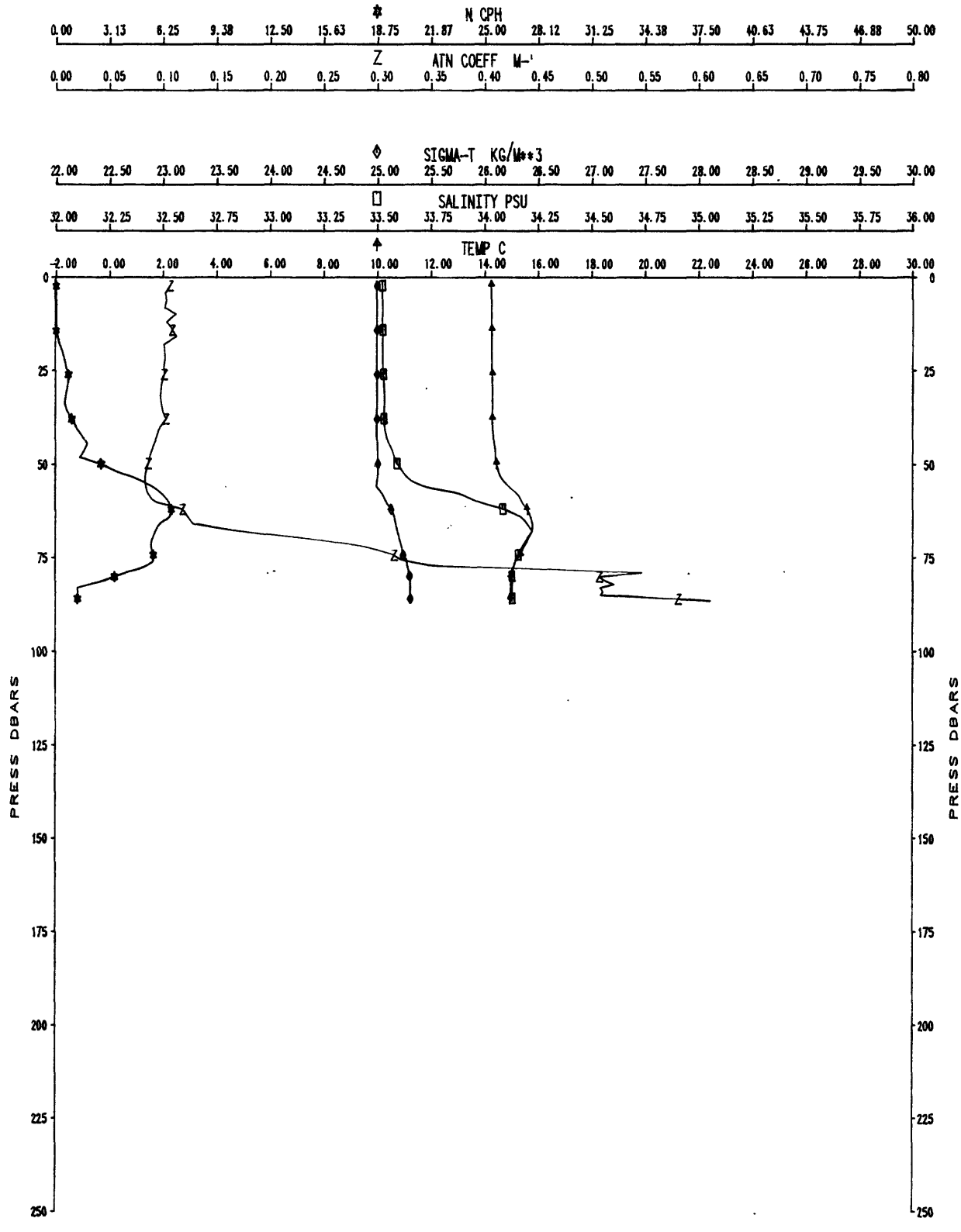
OC159B CAST #5



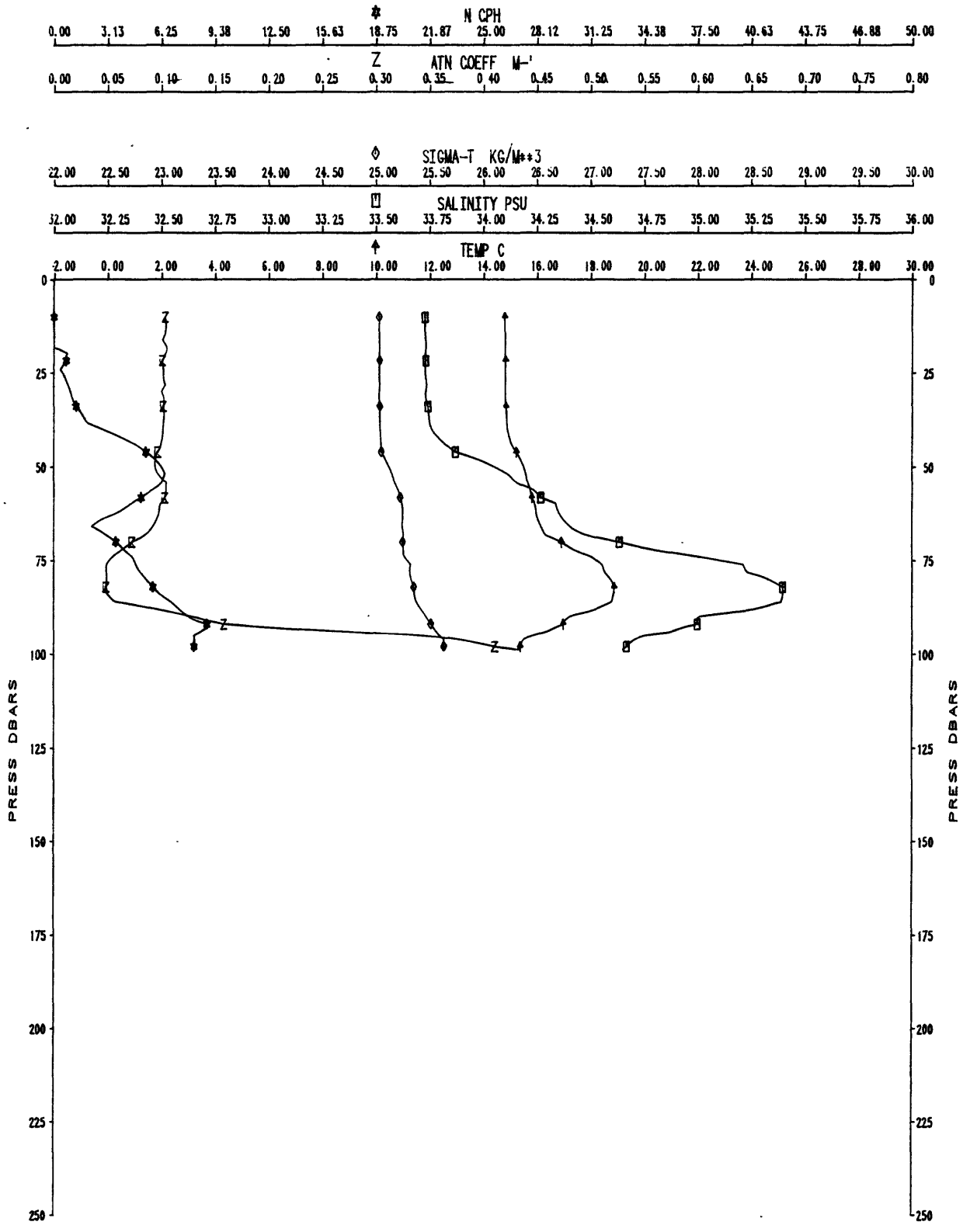
OC159A CAST #6



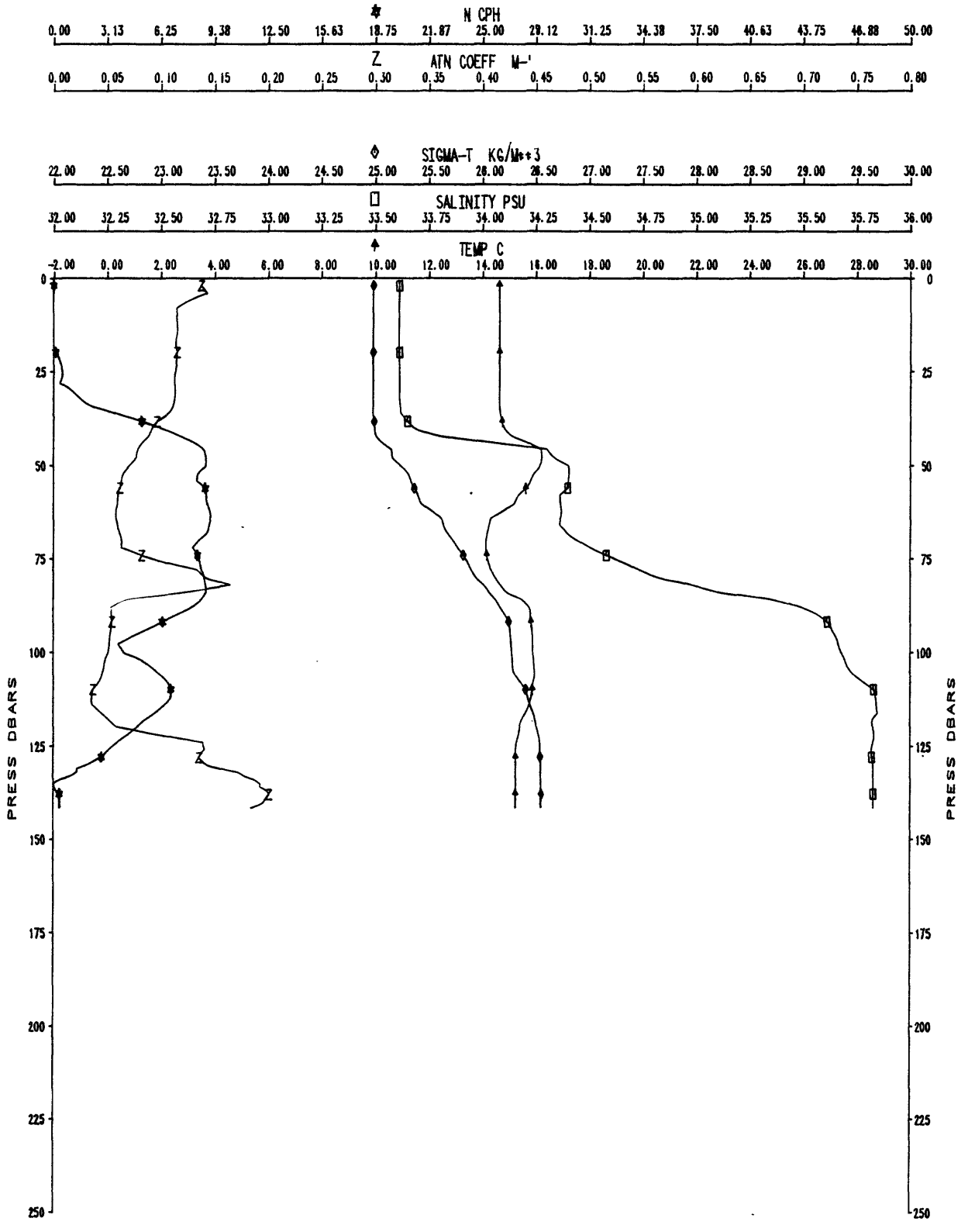
OC159A CAST #7



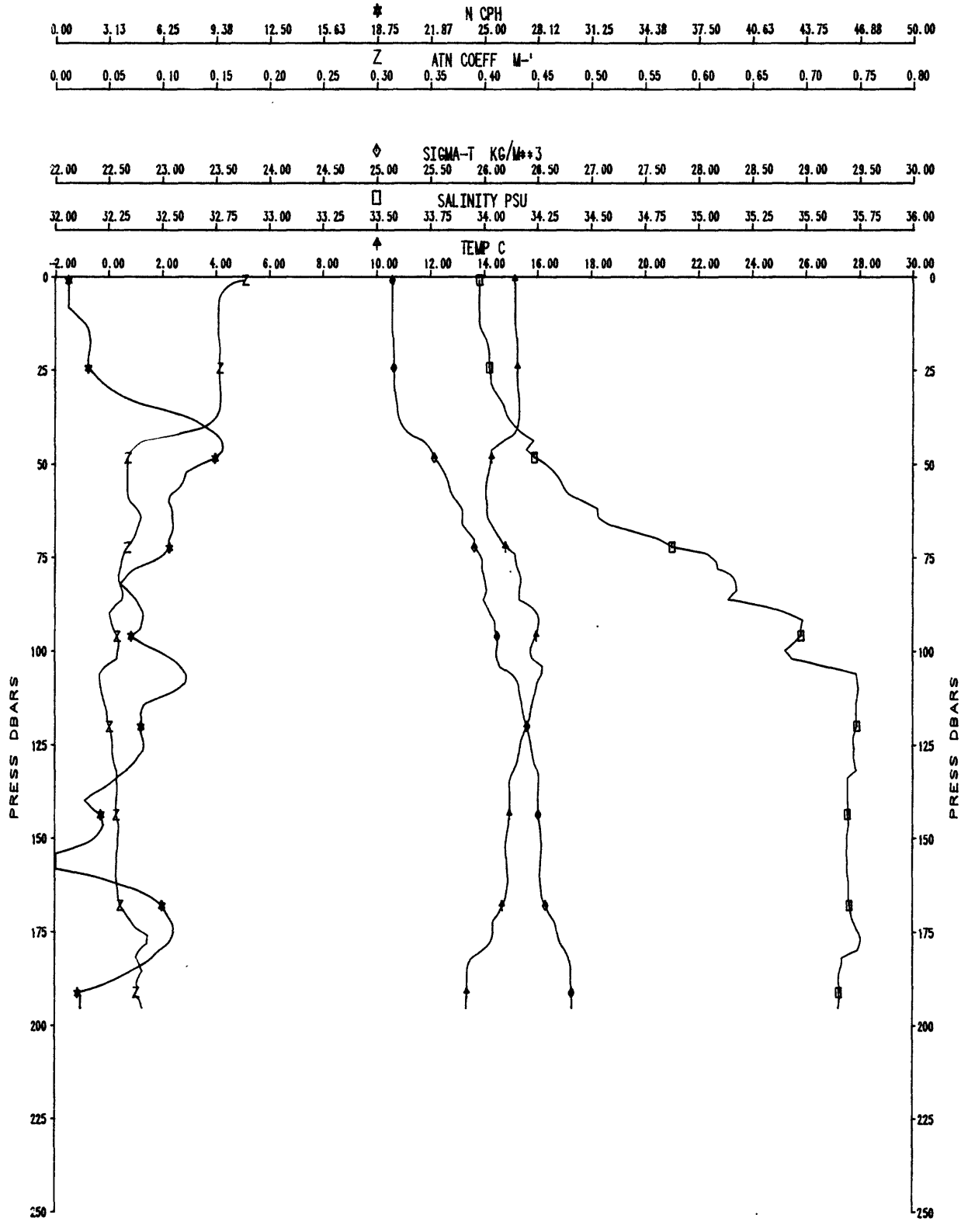
OC159B CAST #8



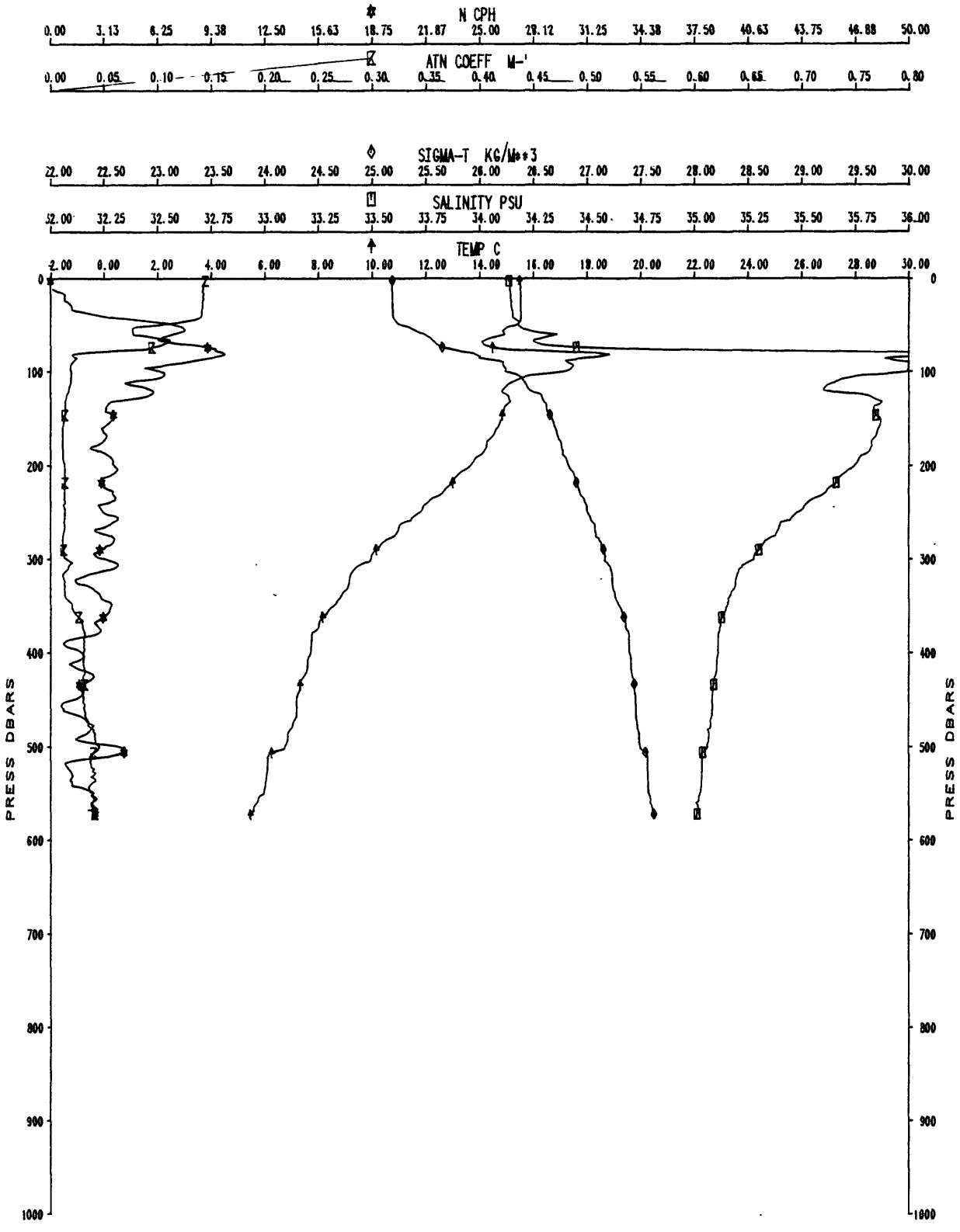
OC159A CAST #9



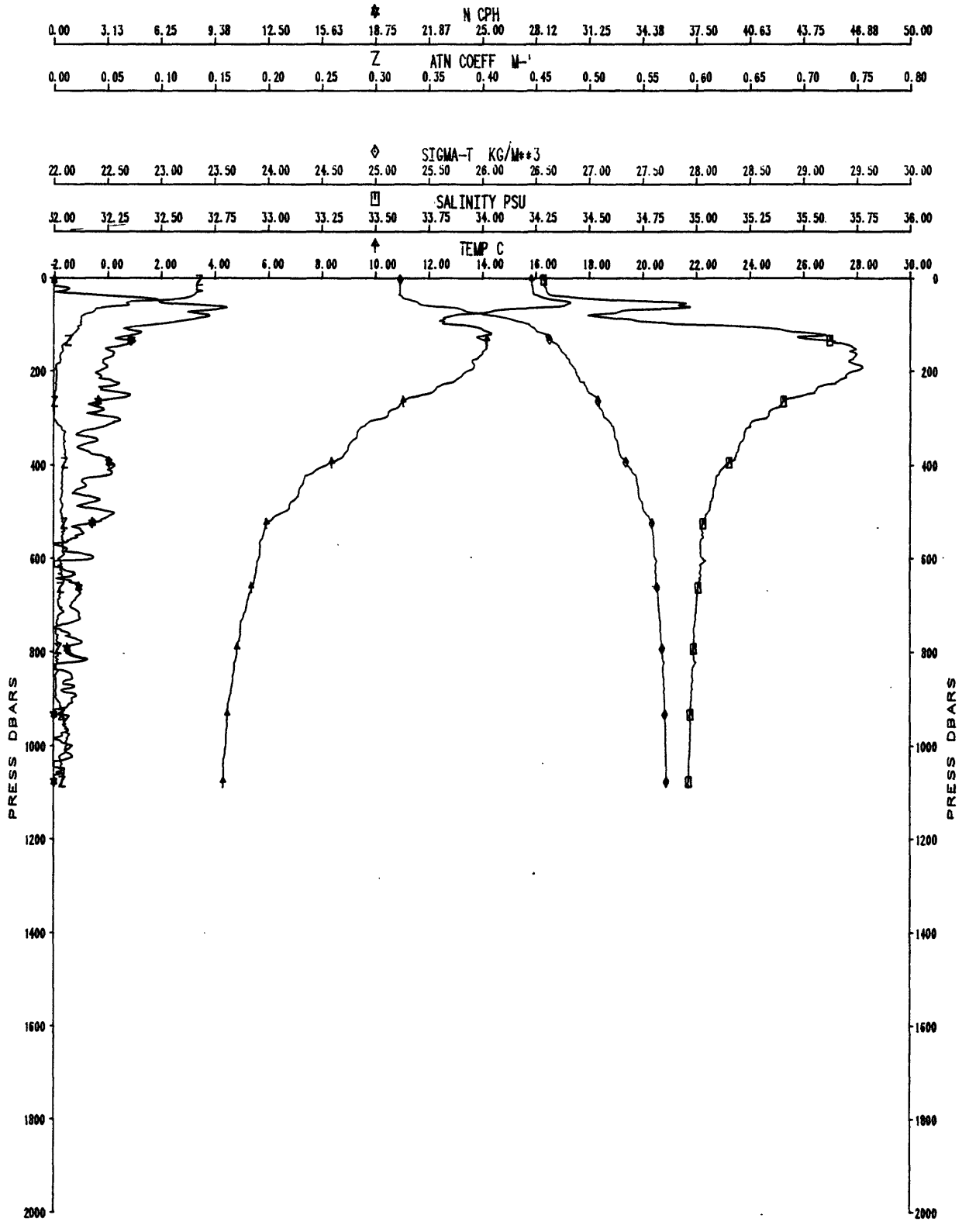
OC159A CAST #10



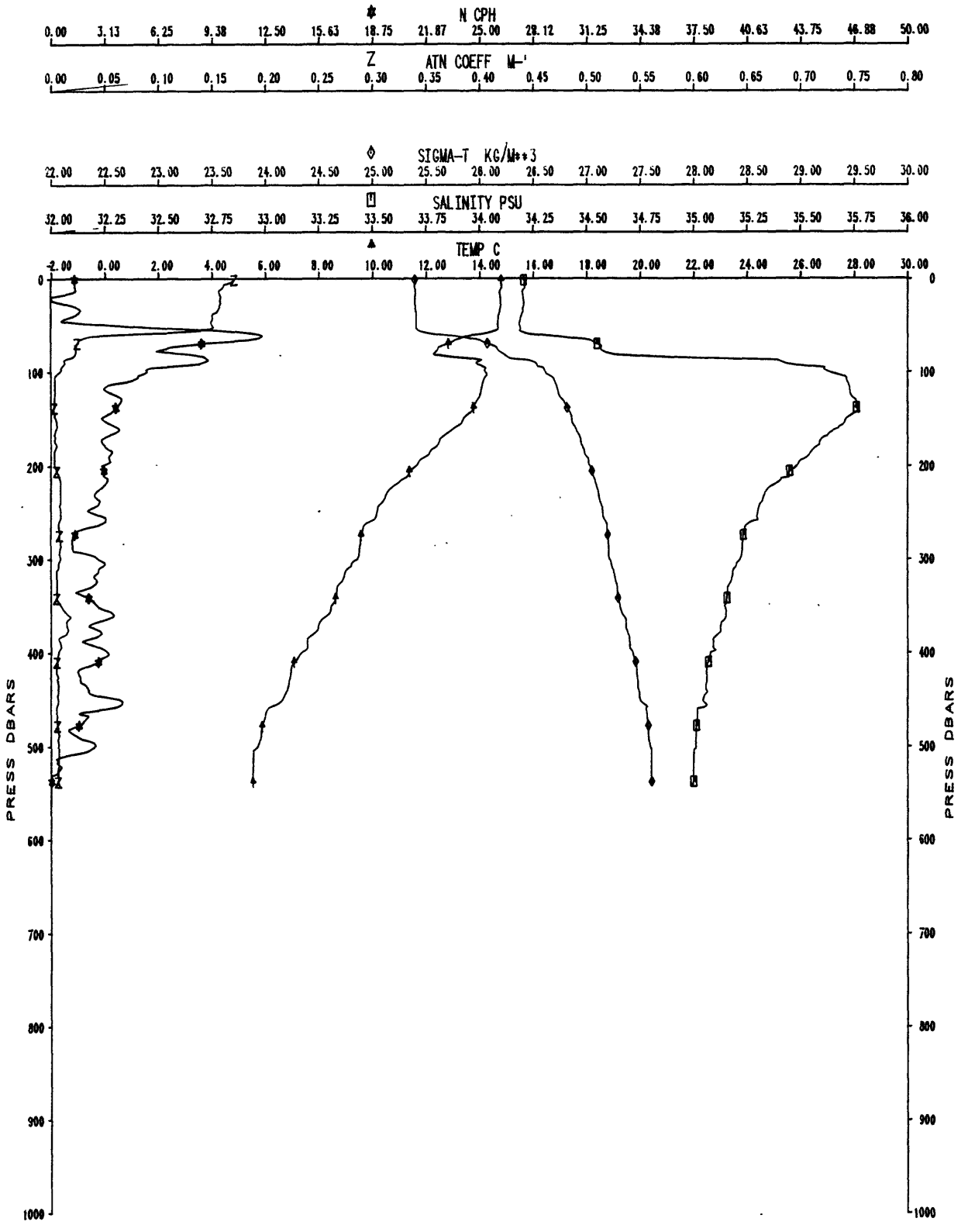
OC159B CAST #11



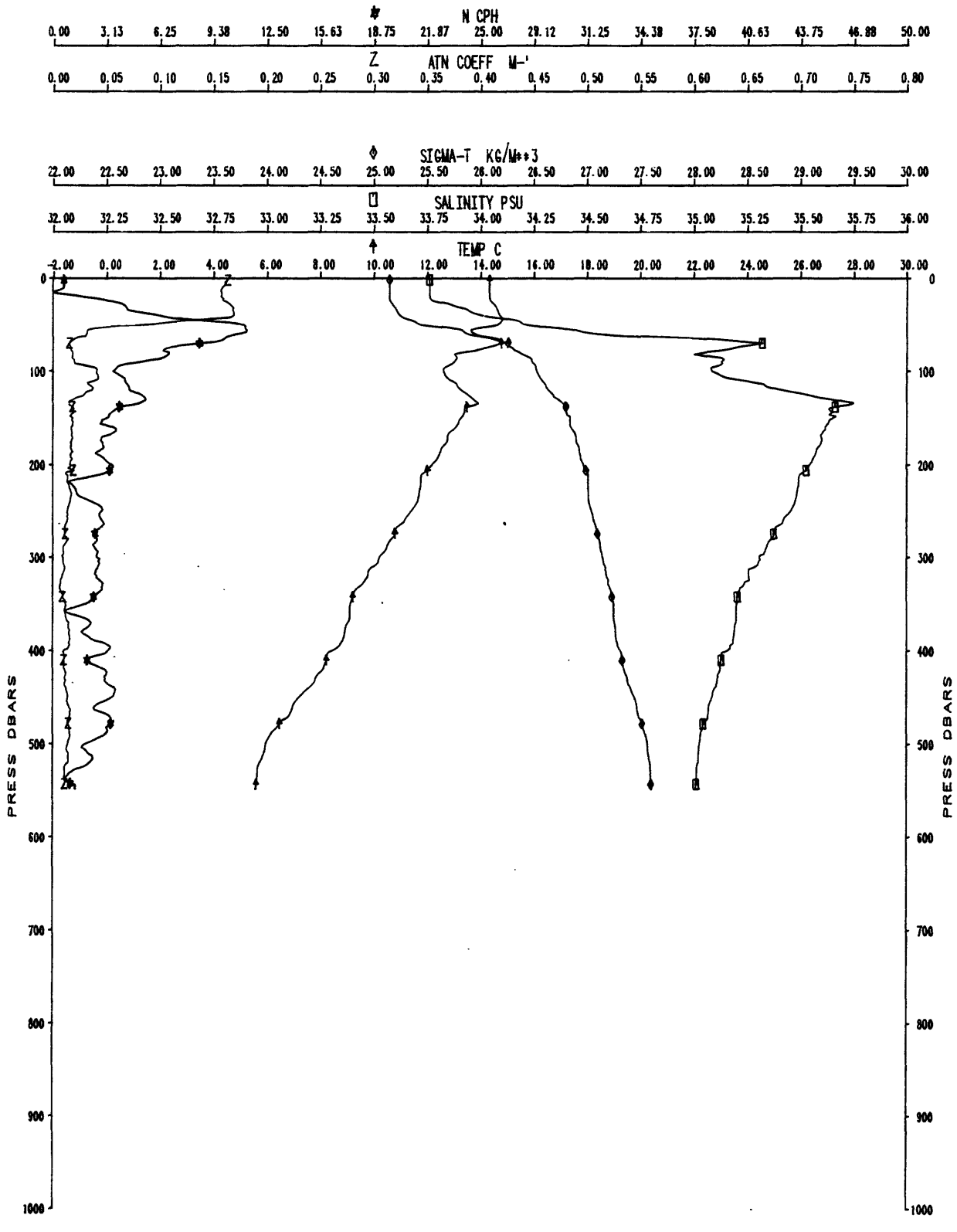
OC159B CAST #12



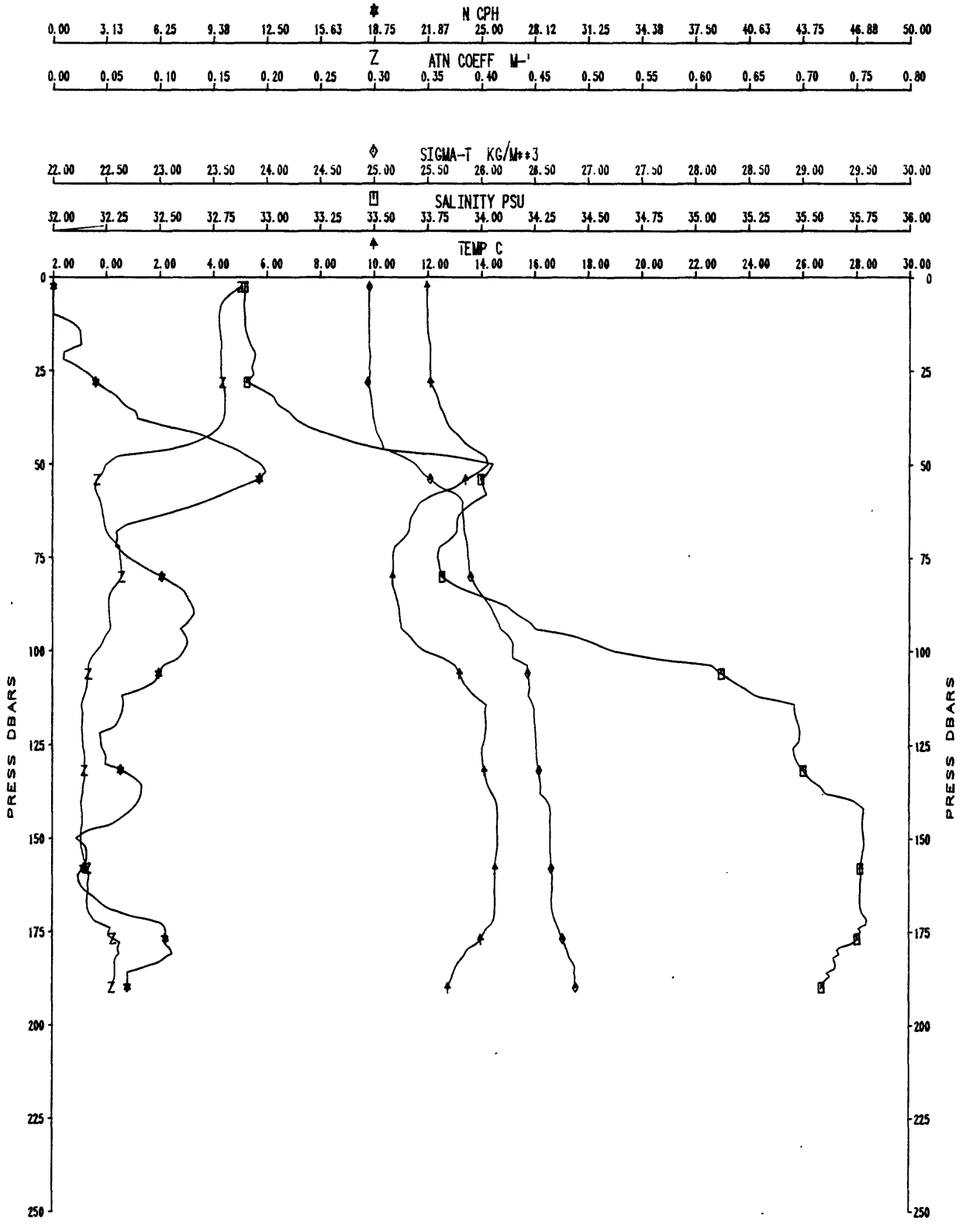
OC159B CAST #13



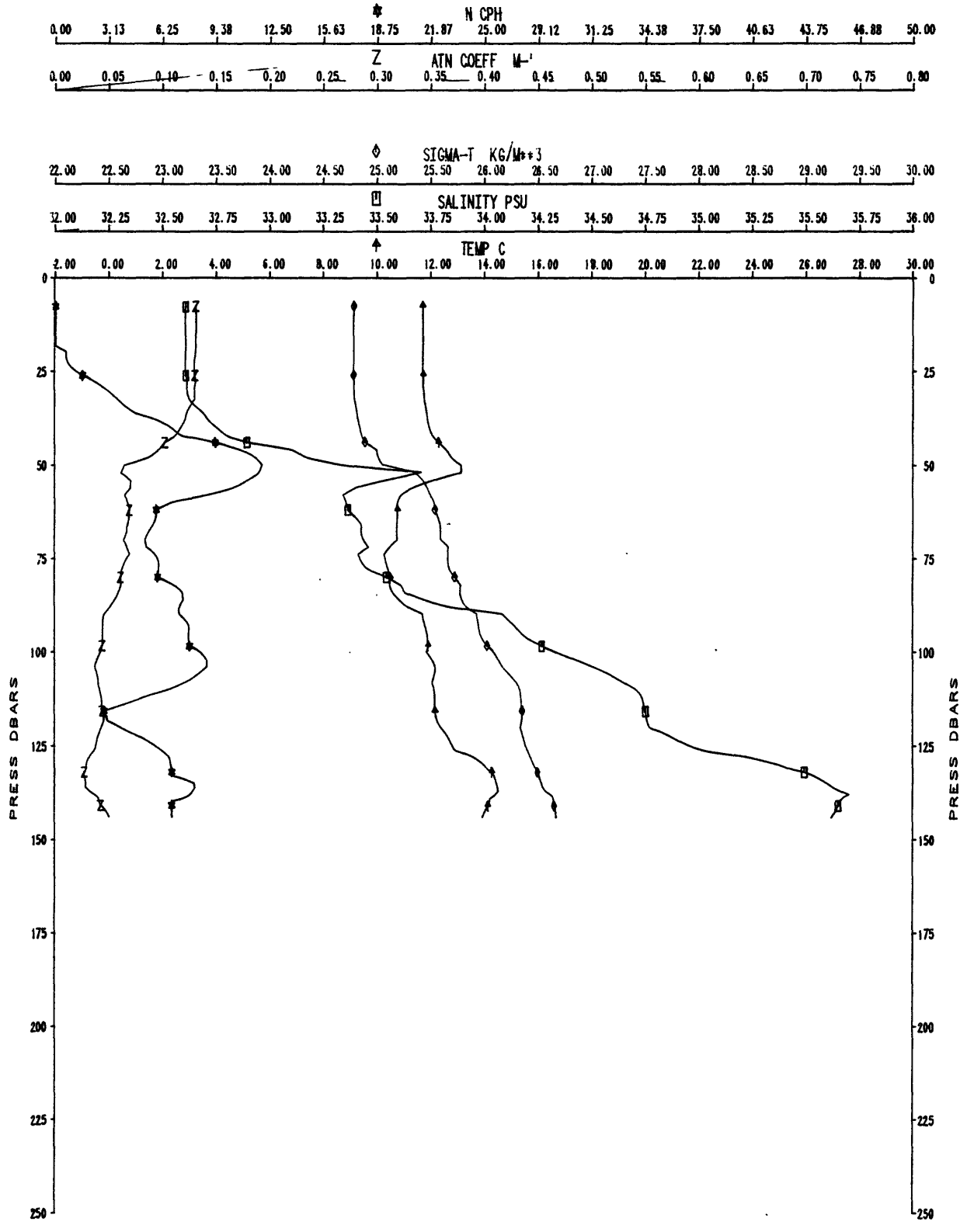
OC159A CAST #14



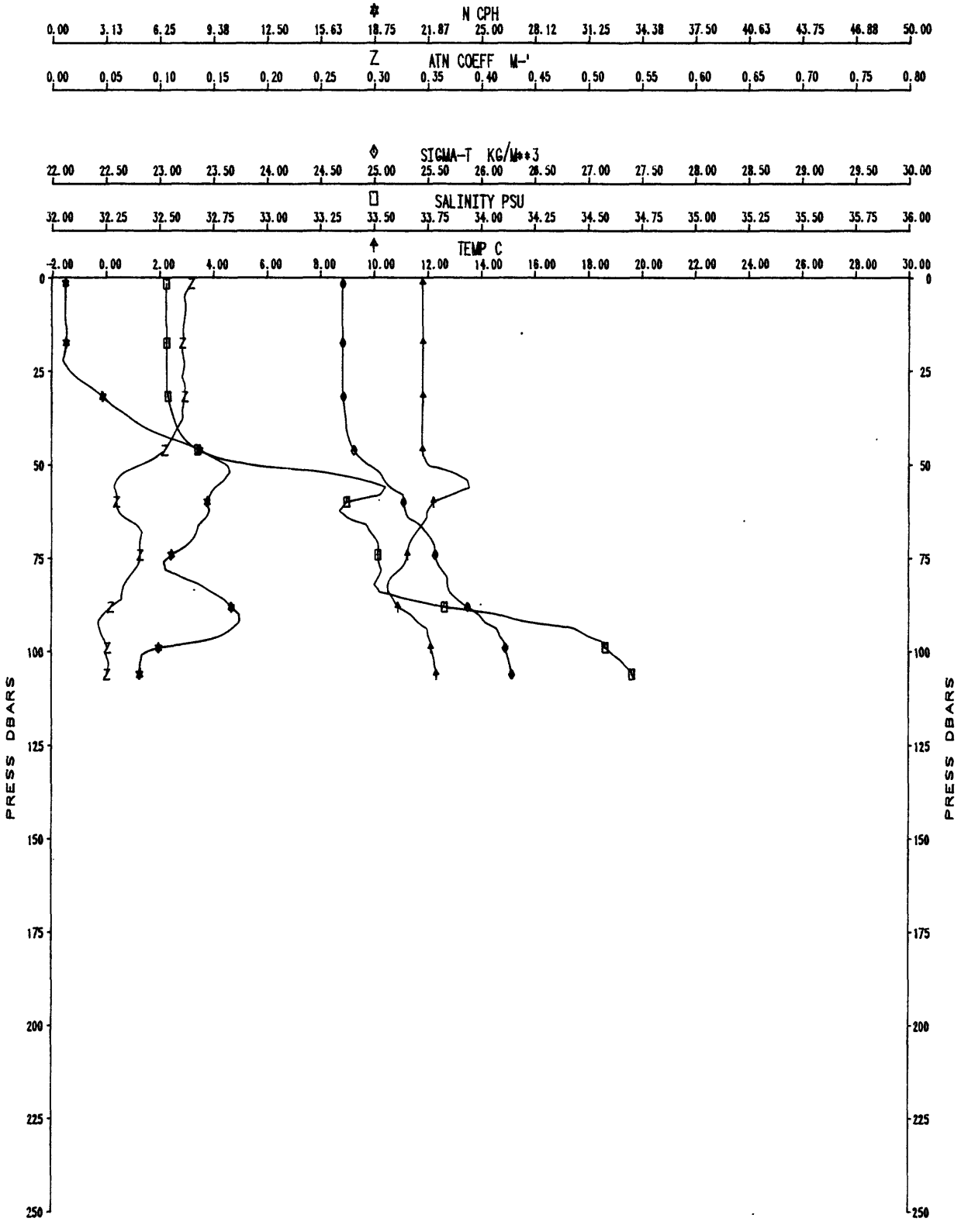
OC159B CAST #15



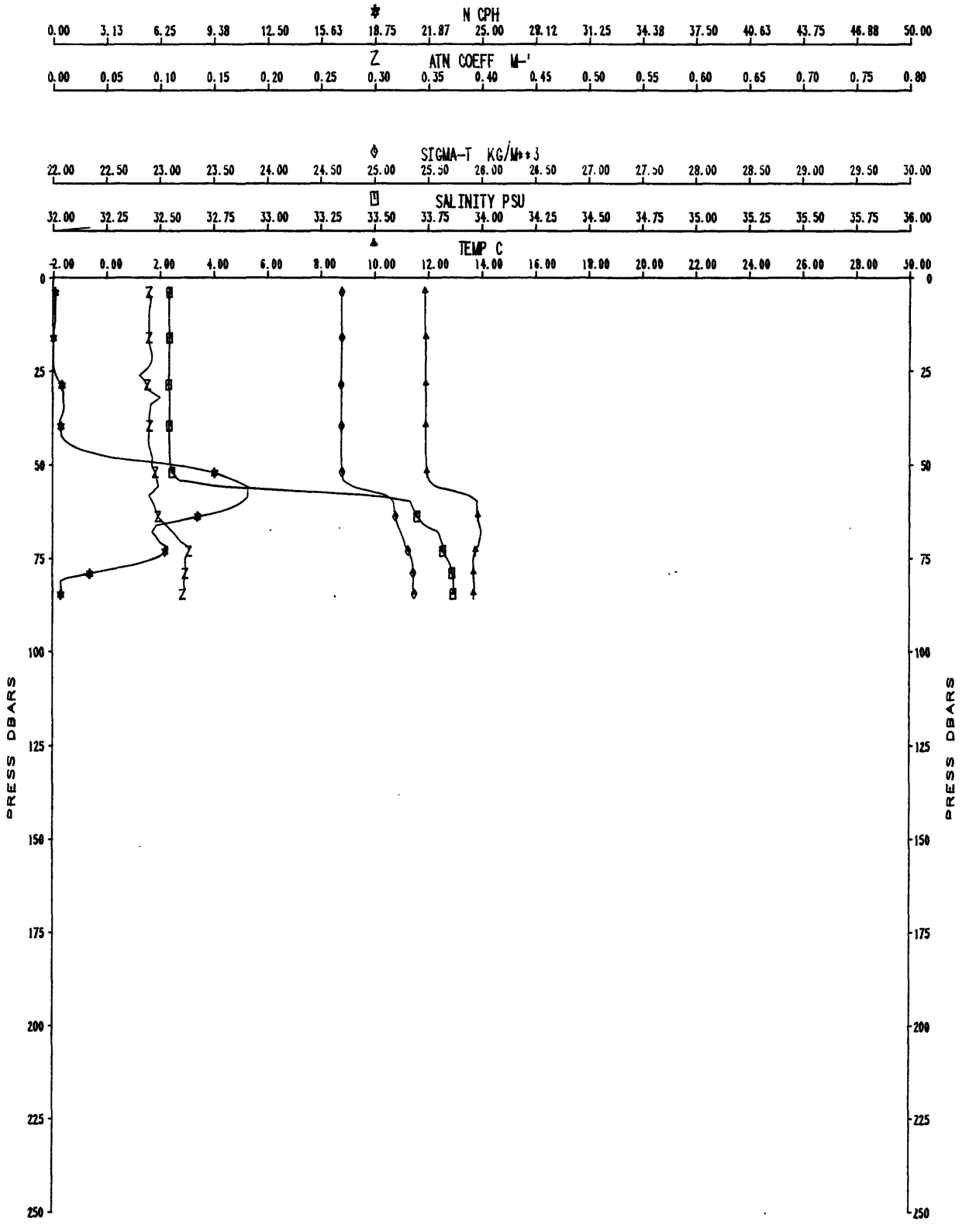
OC159B CAST #16



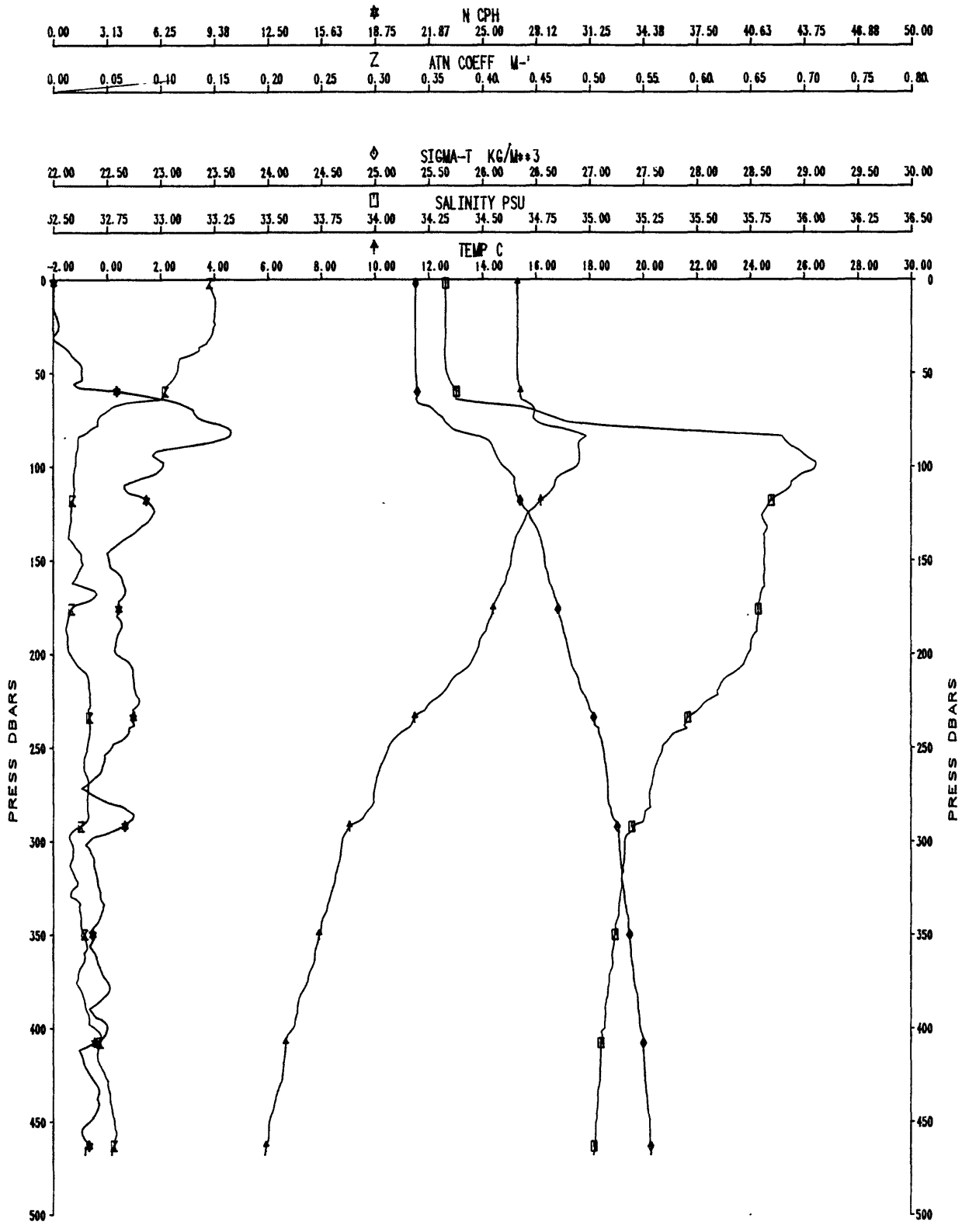
OC159A CAST #17



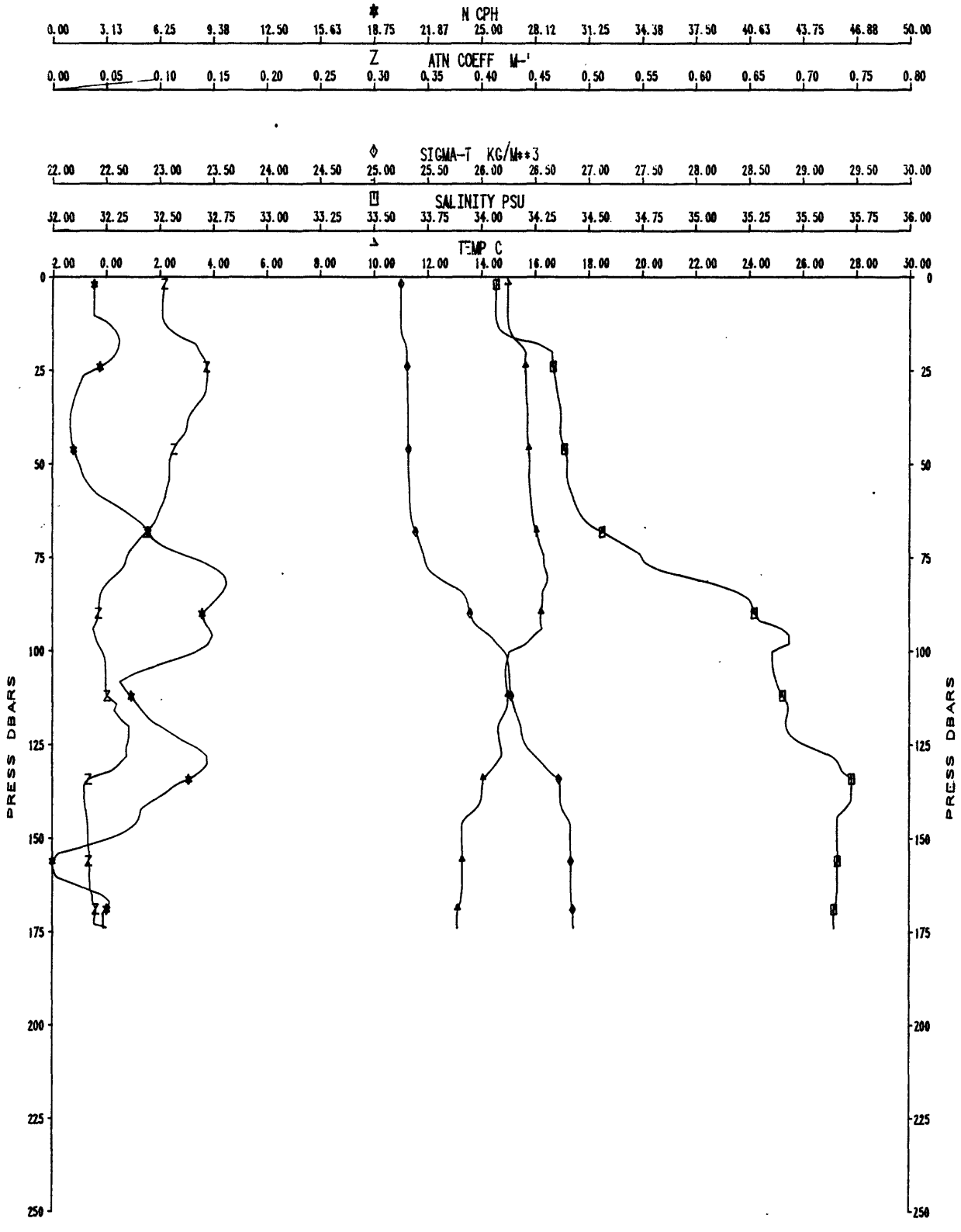
OC159U CAST #18



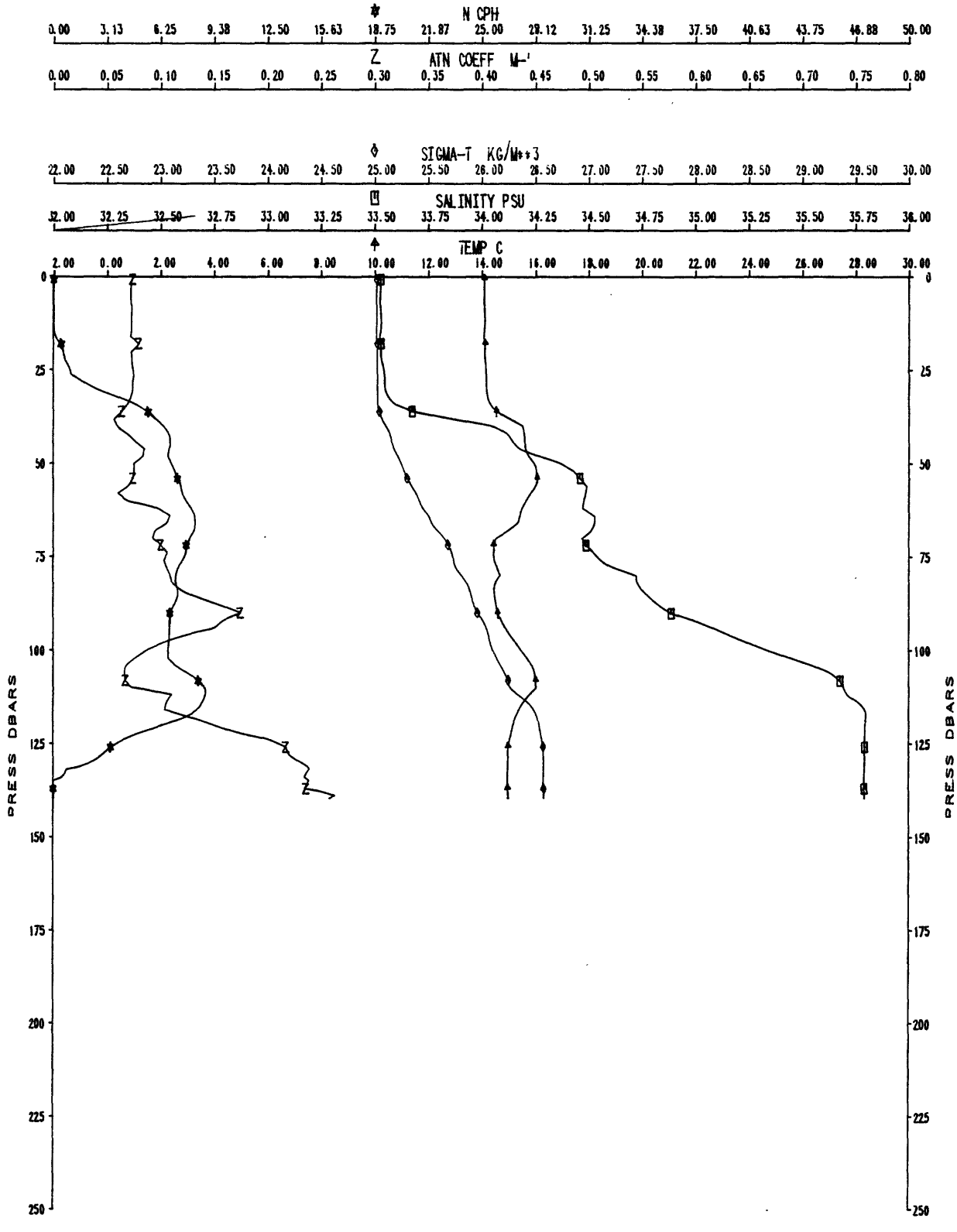
OC159A CAST #19



OC159U CAST #20



OC159U CAST #21



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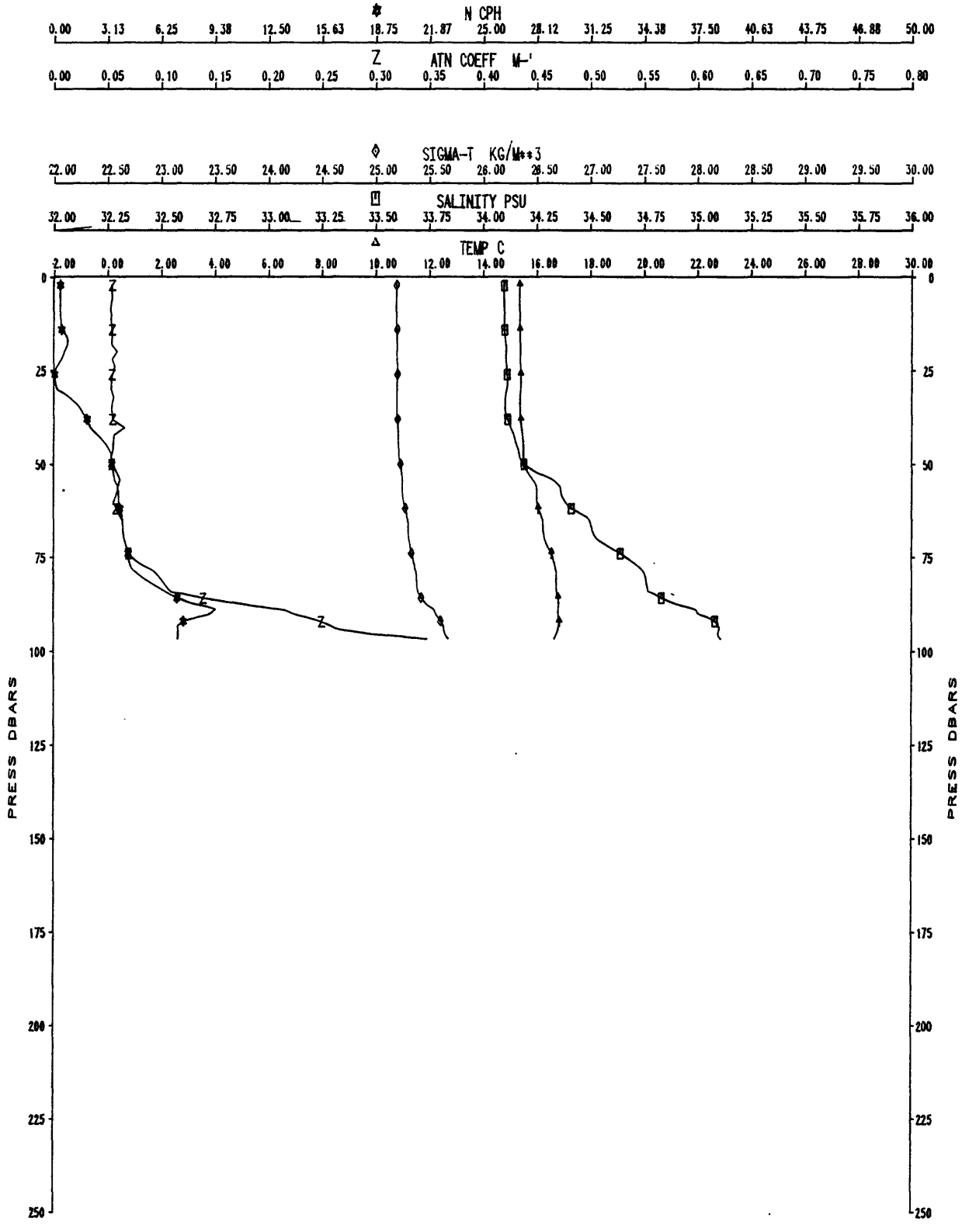

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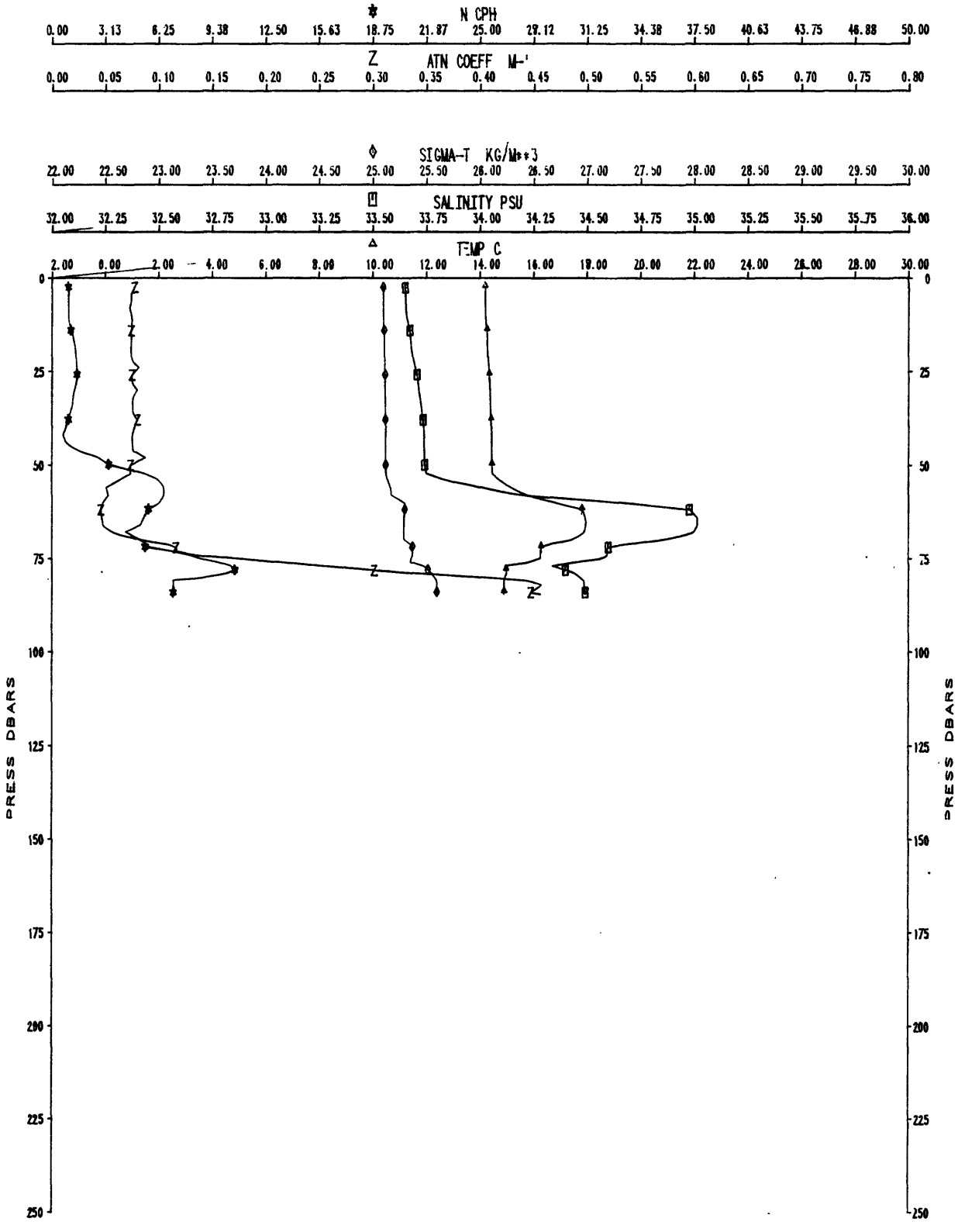
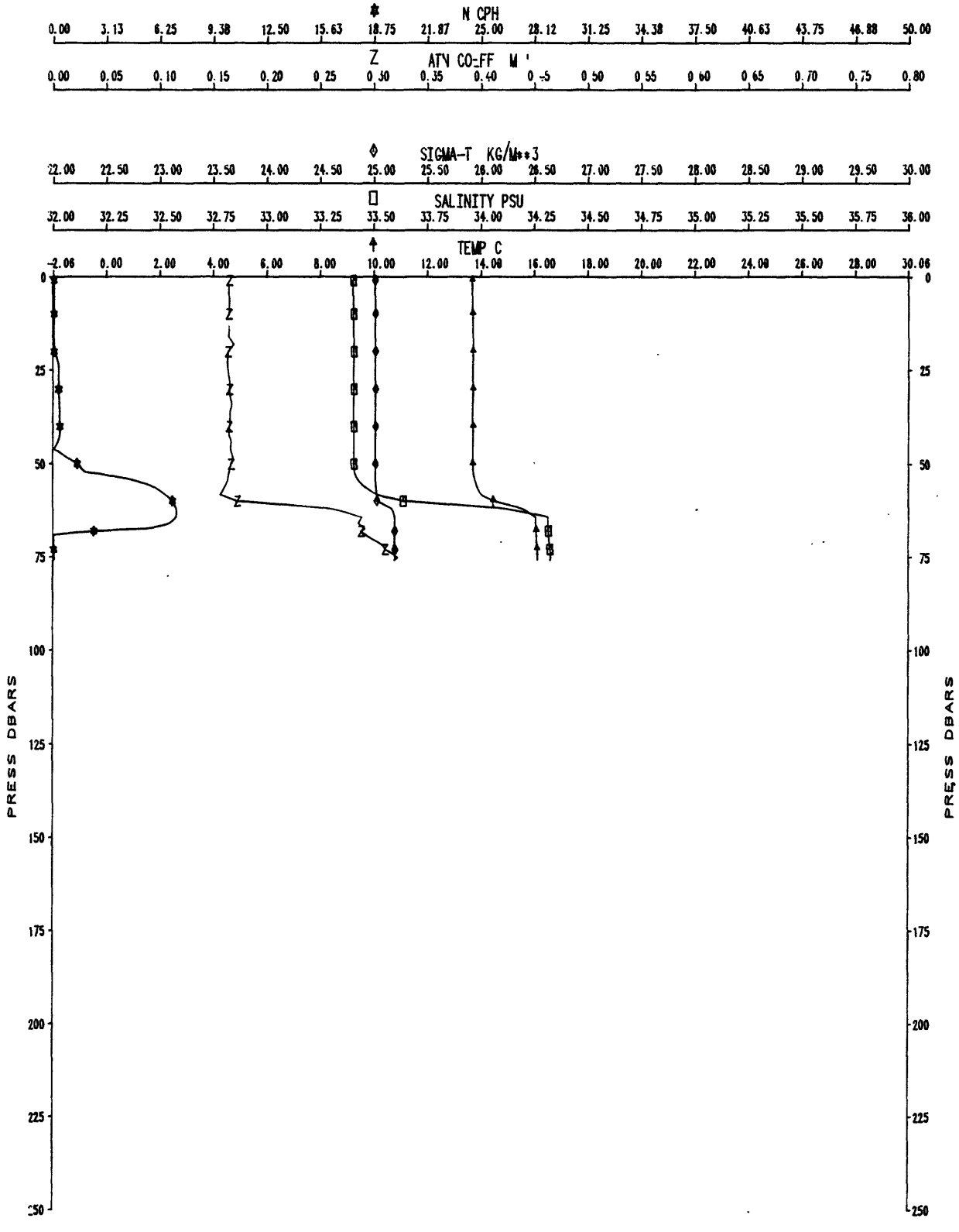


OC159A CAST #24



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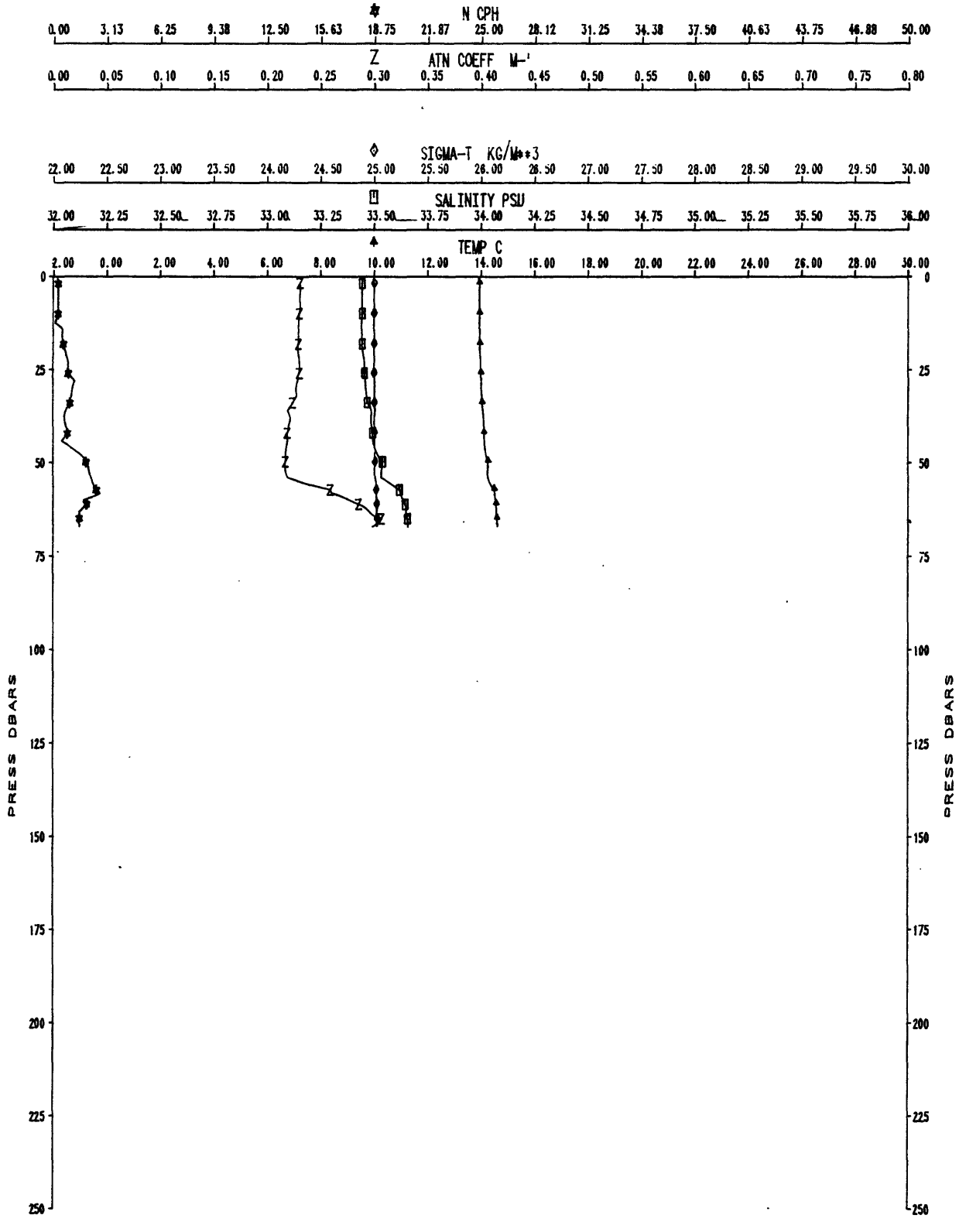

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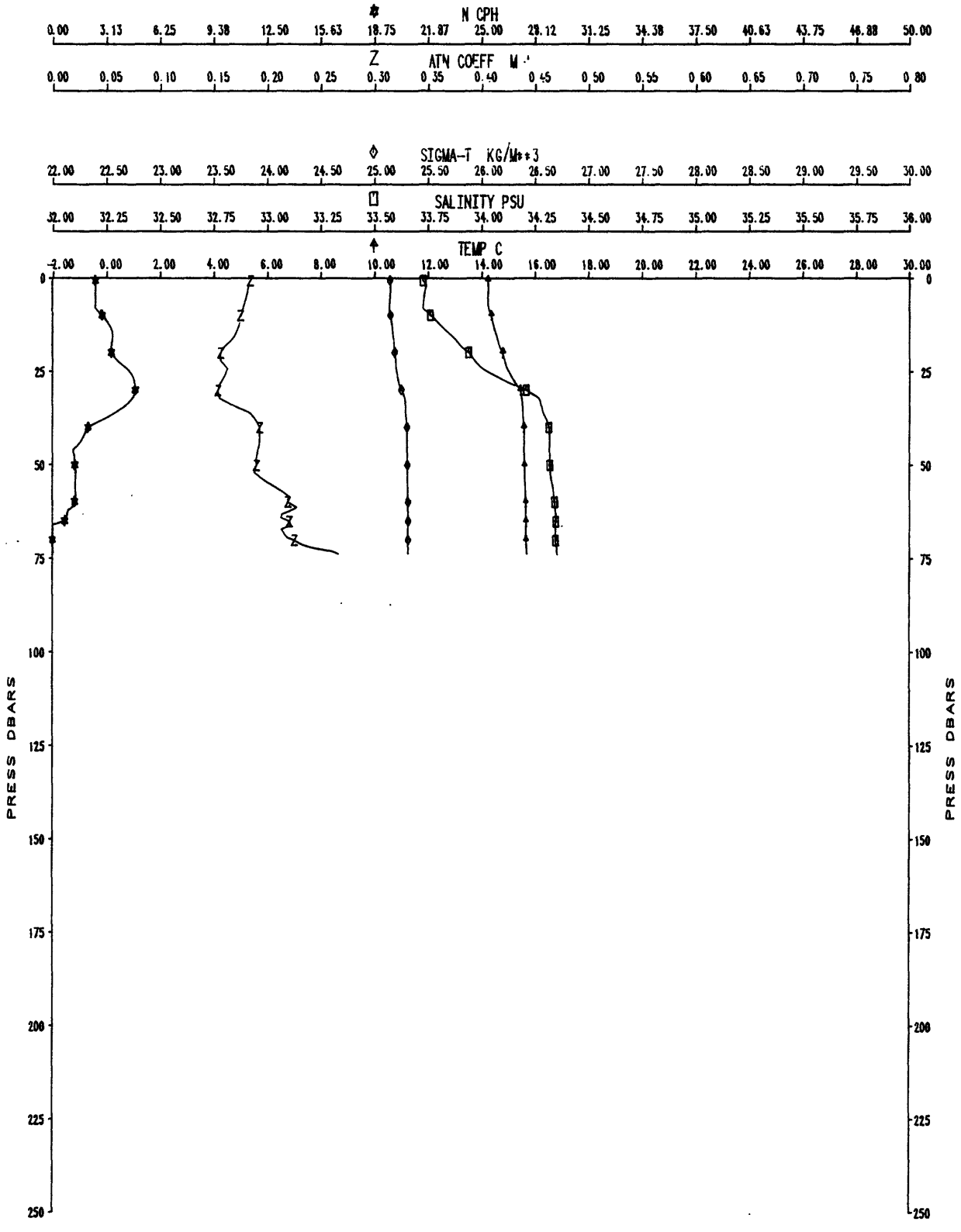

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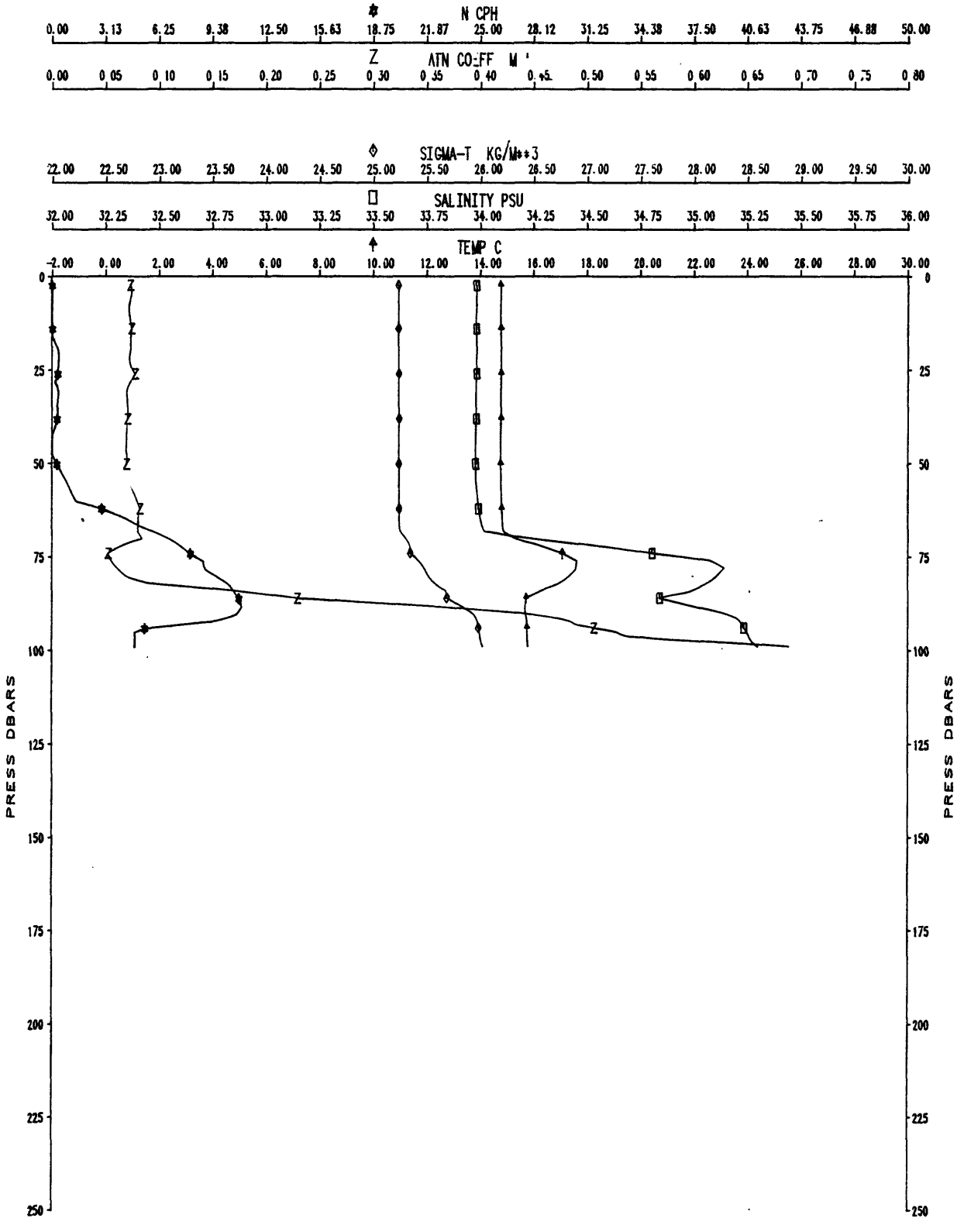

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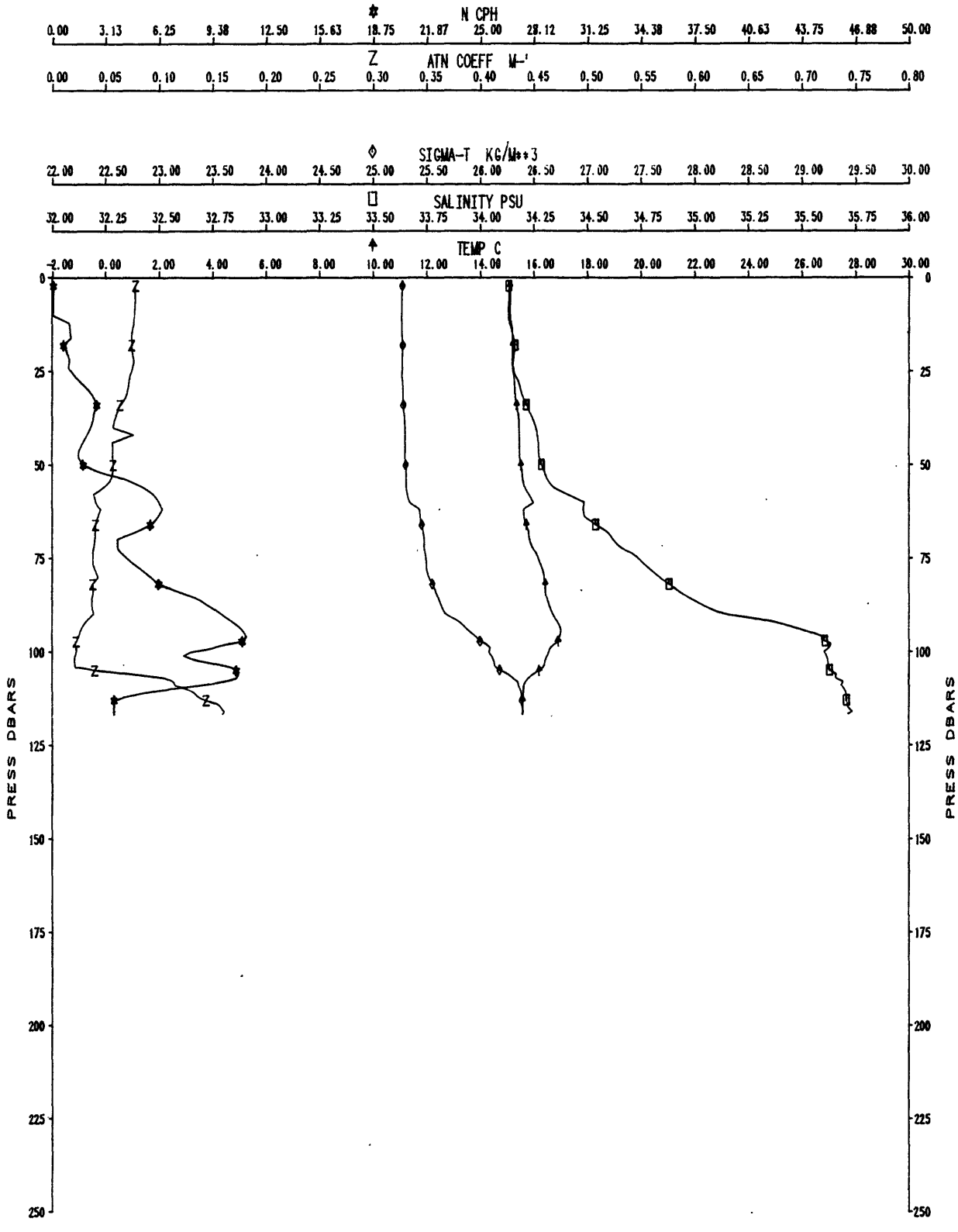

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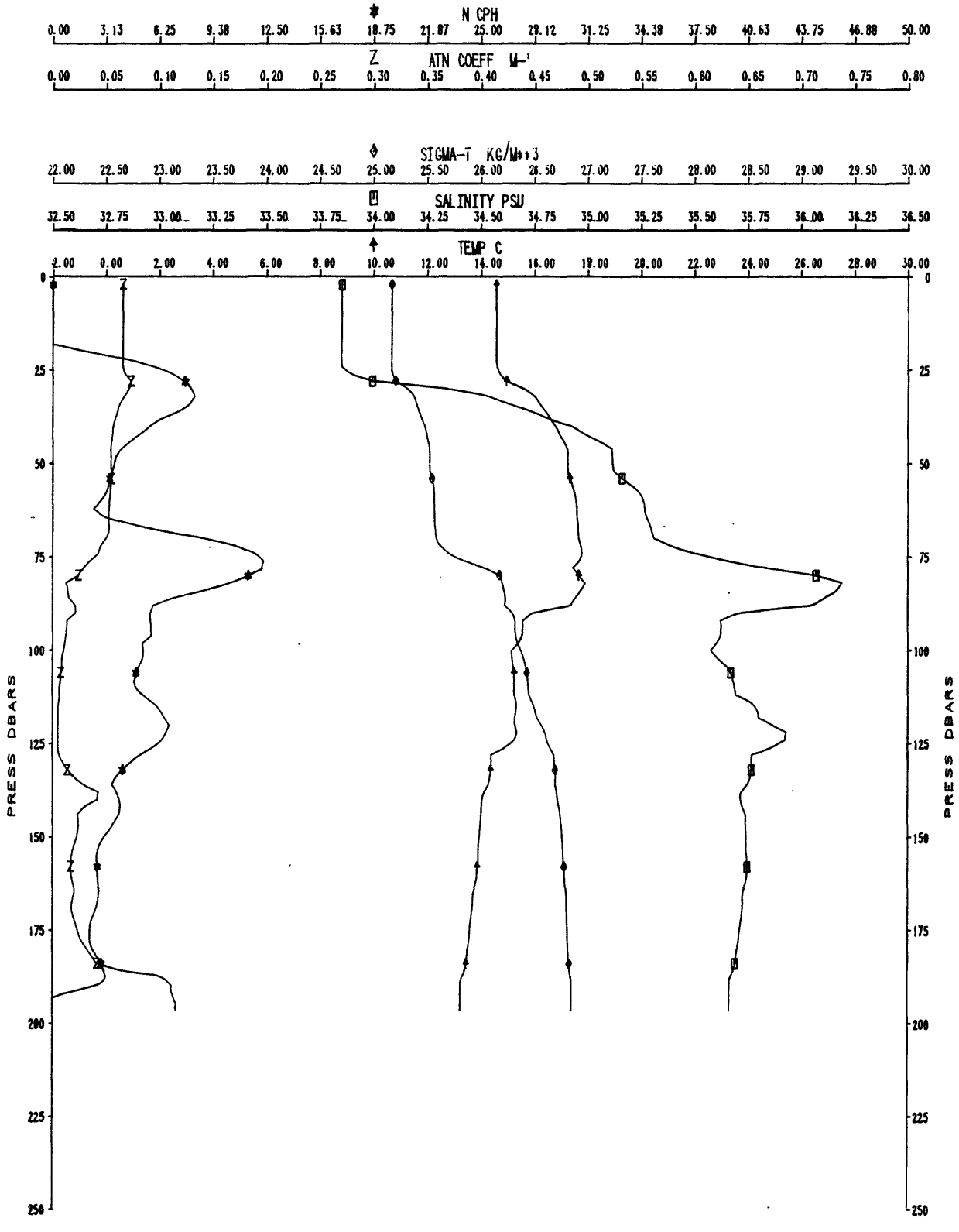
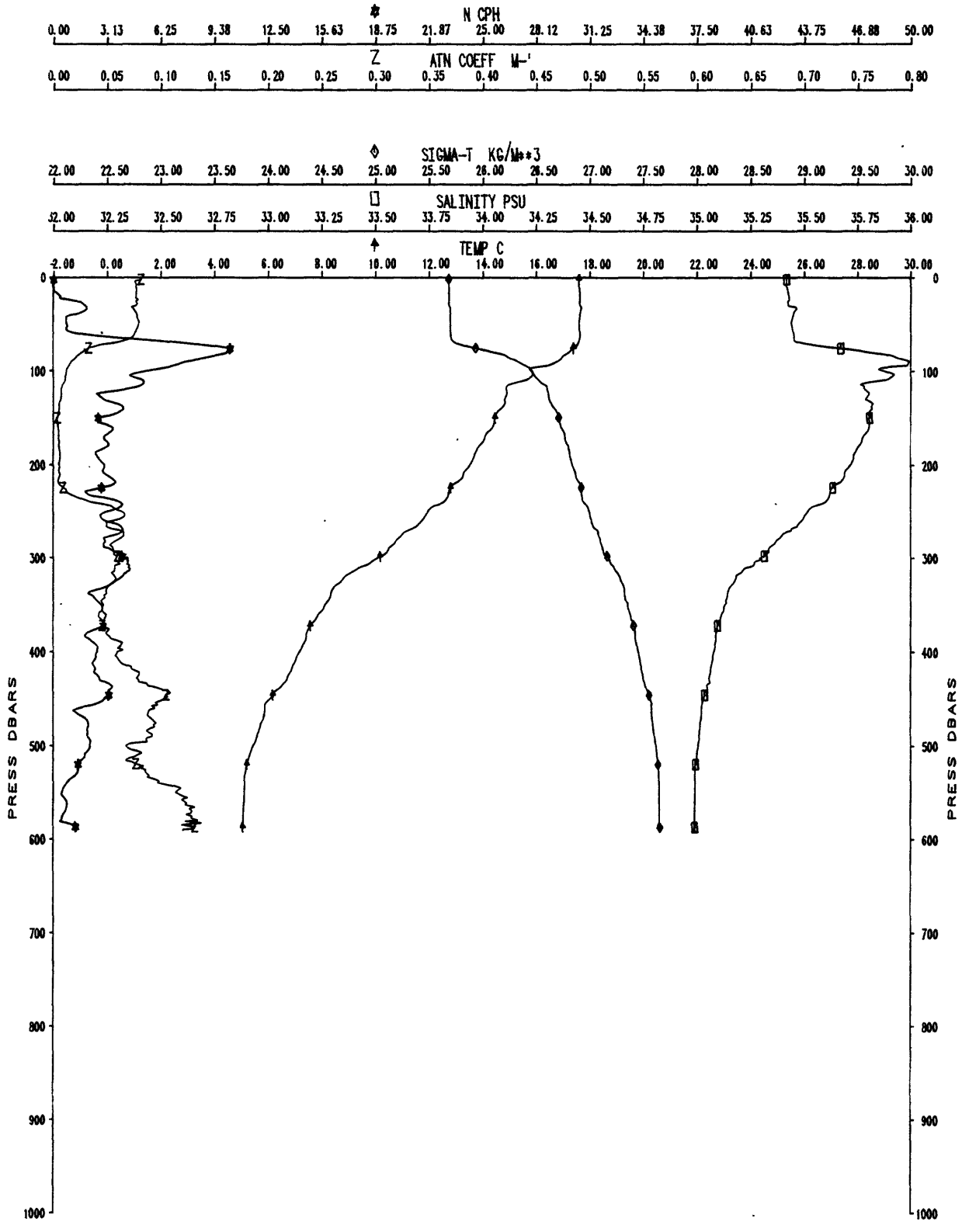
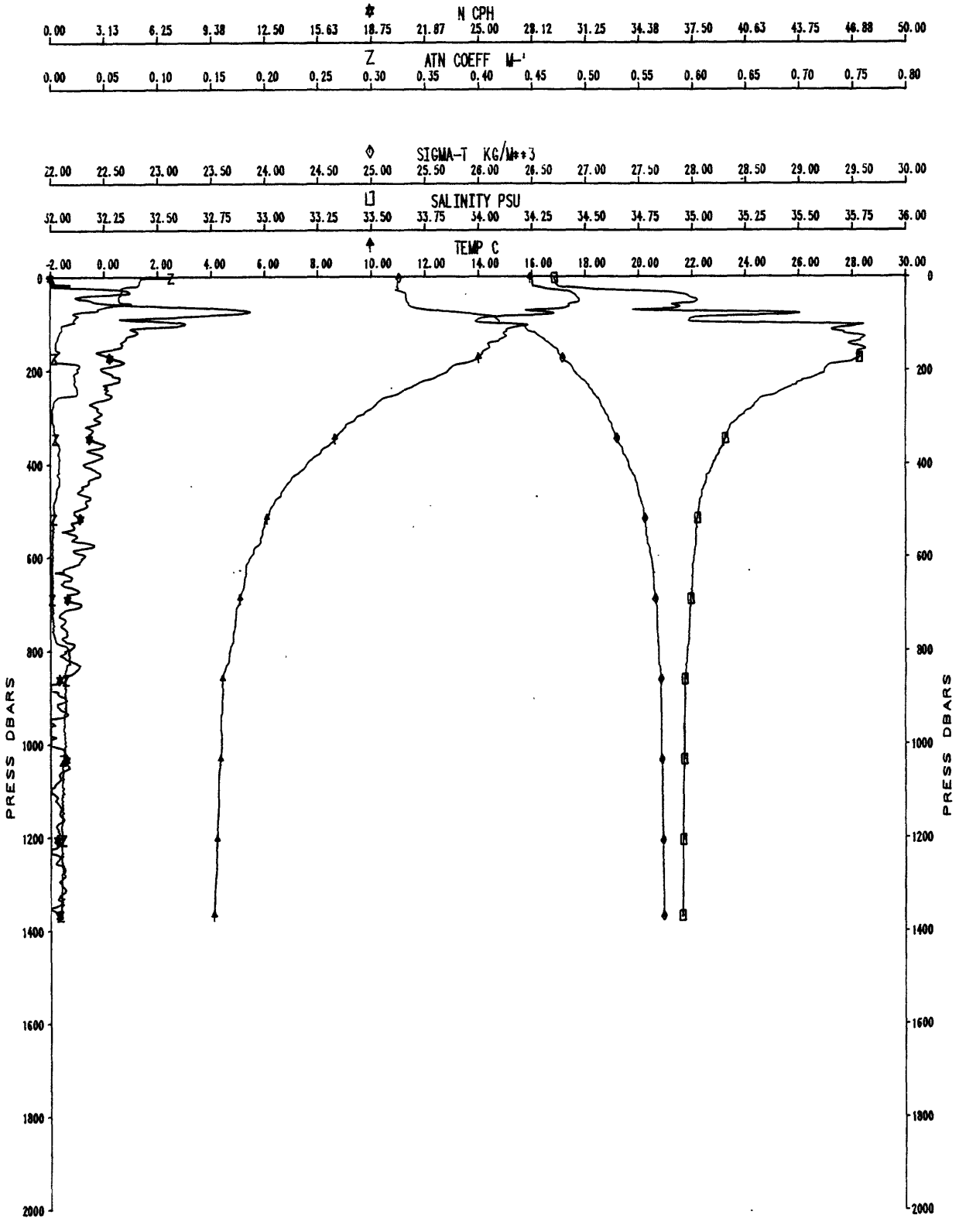


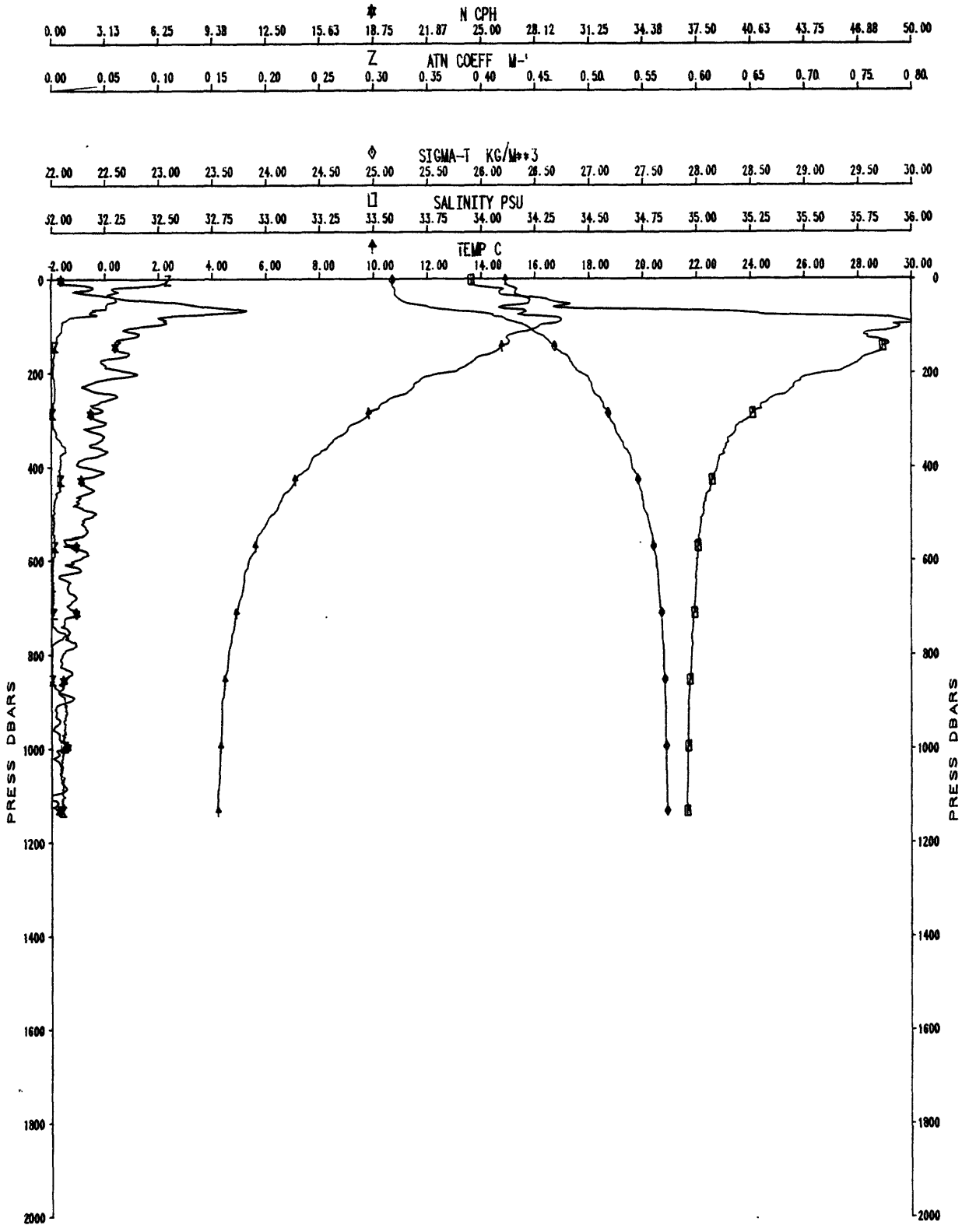
OC159A CAST #30



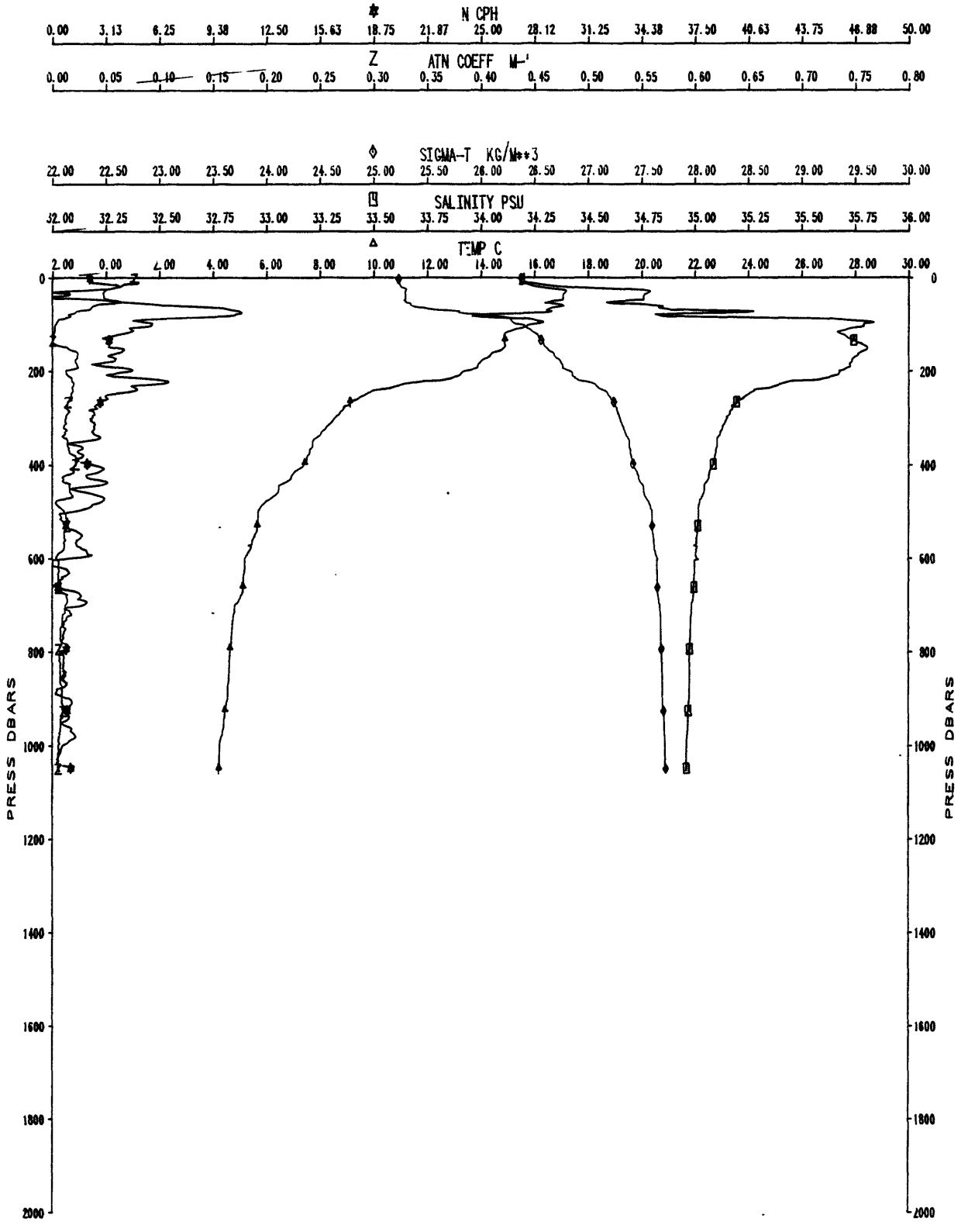
OC159A CAST #31



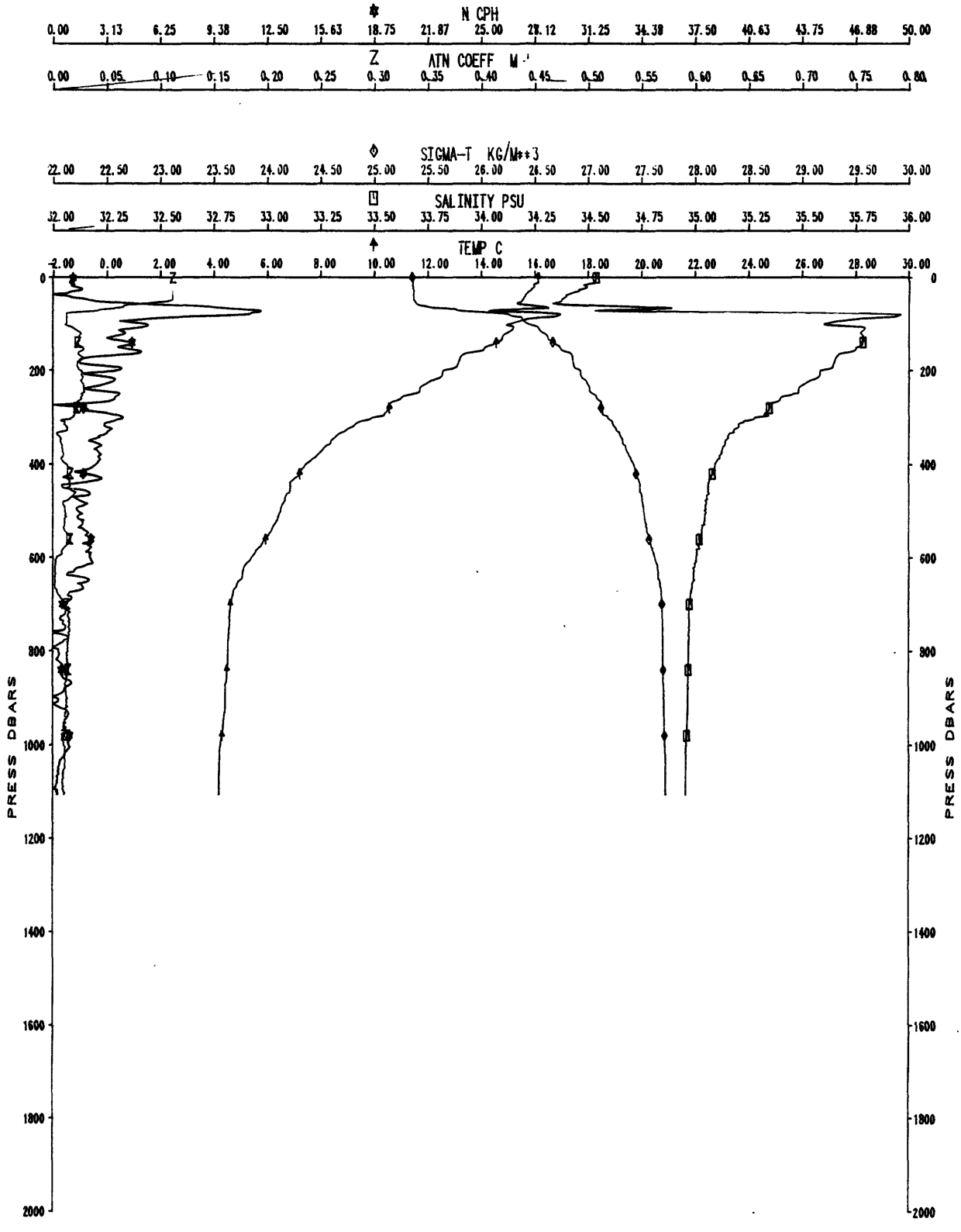
OC159A CAST #33



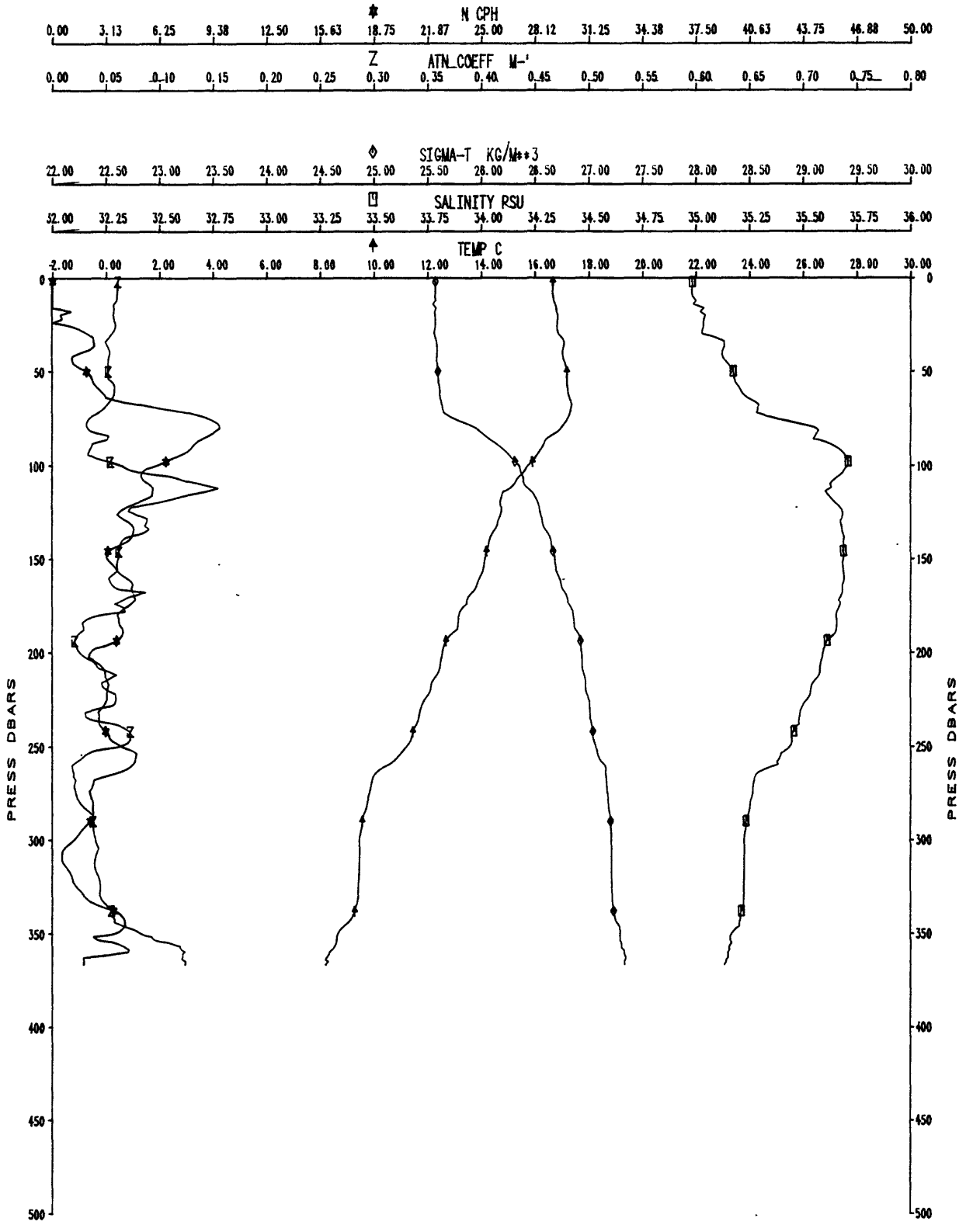
OC159B CAST #35



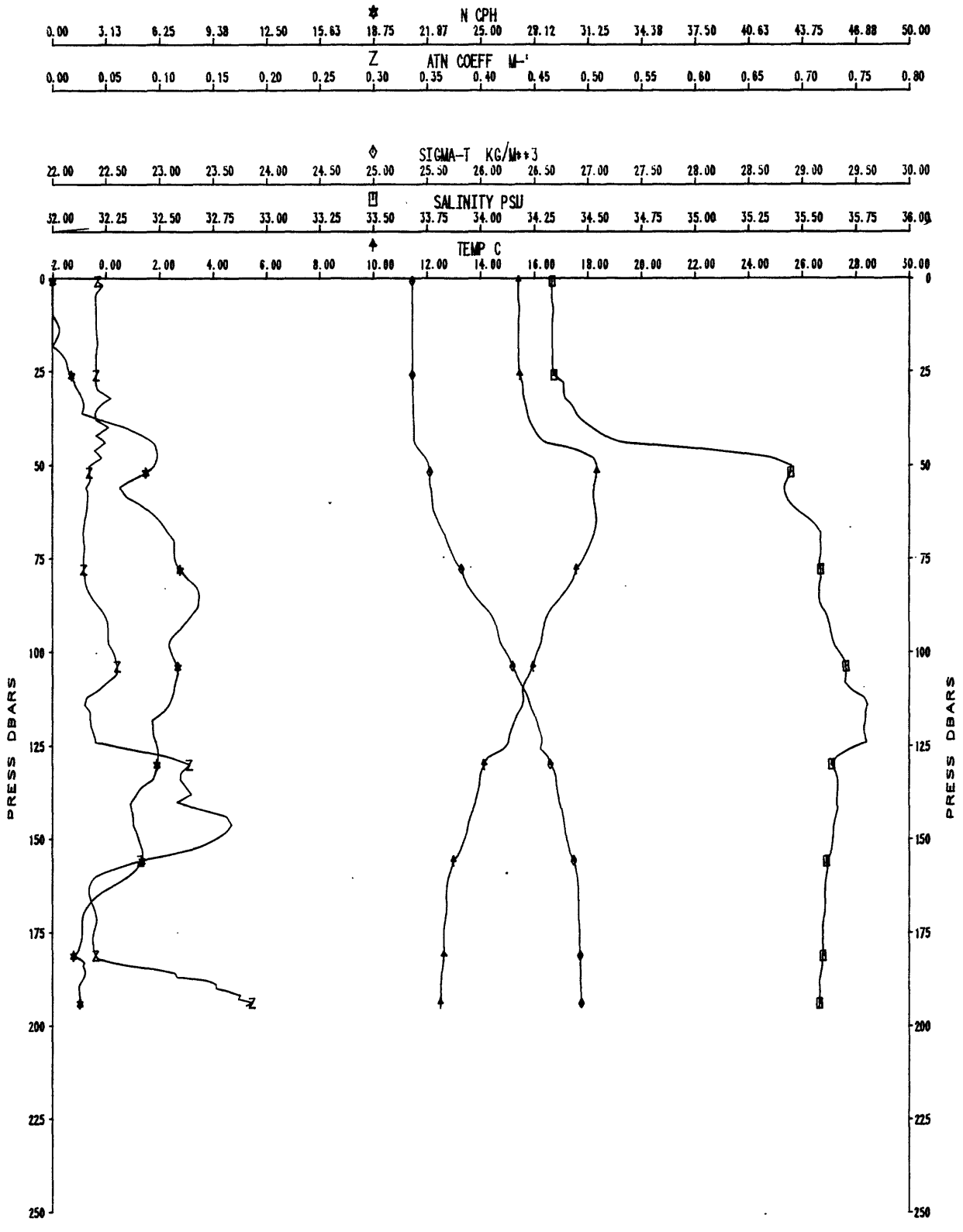
OC159A CAST #37



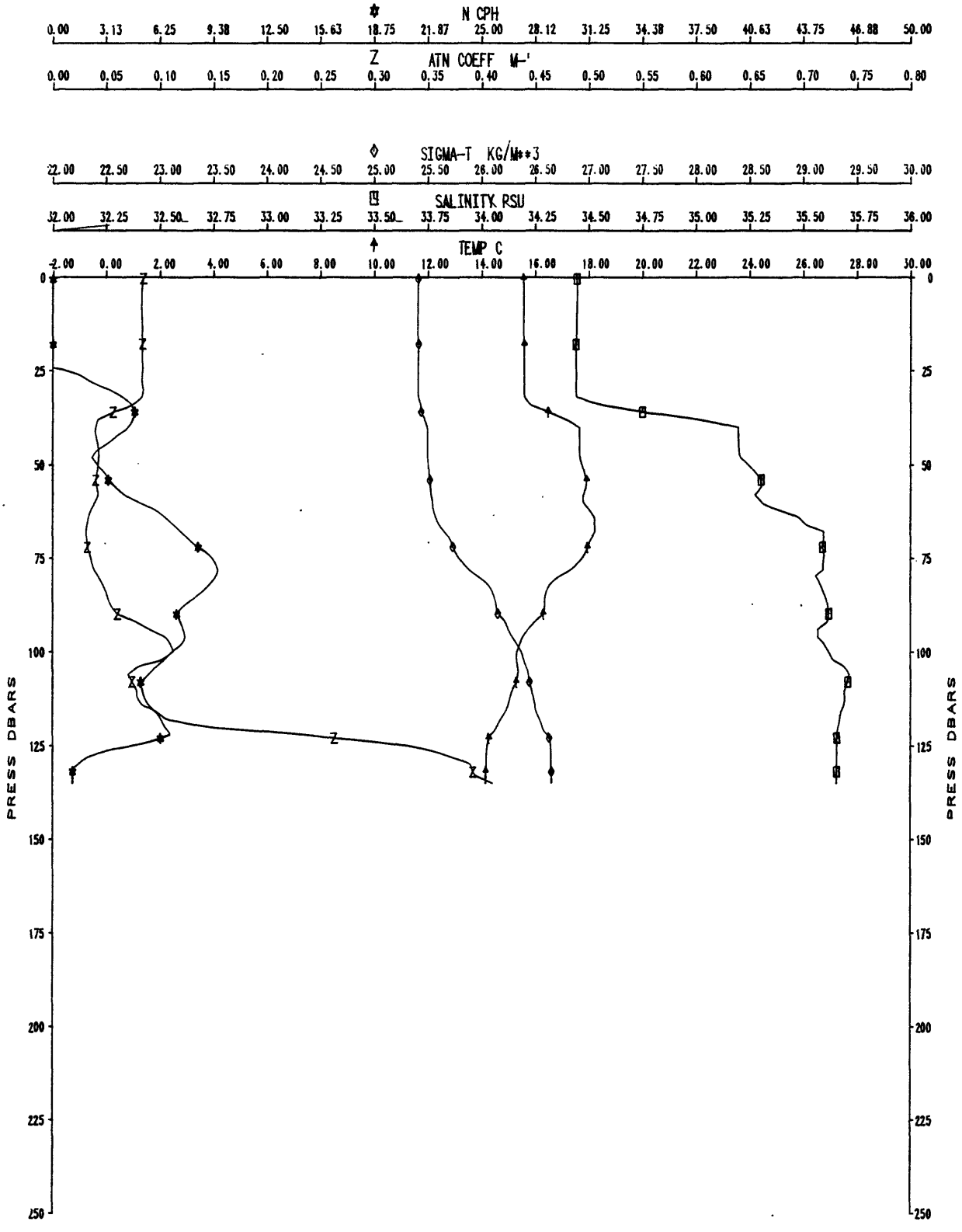
OC159A CAST #38



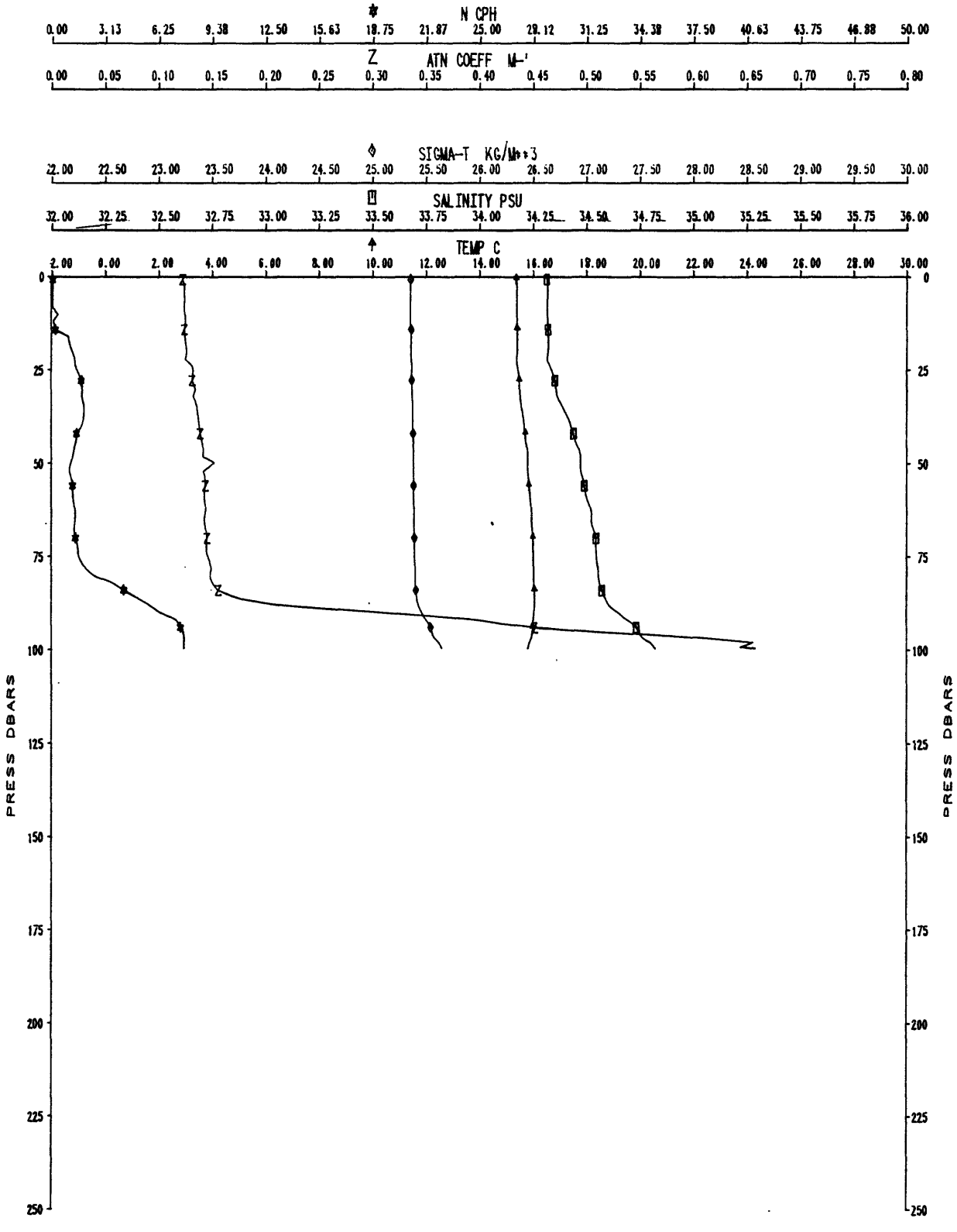
OC159B CAST #39



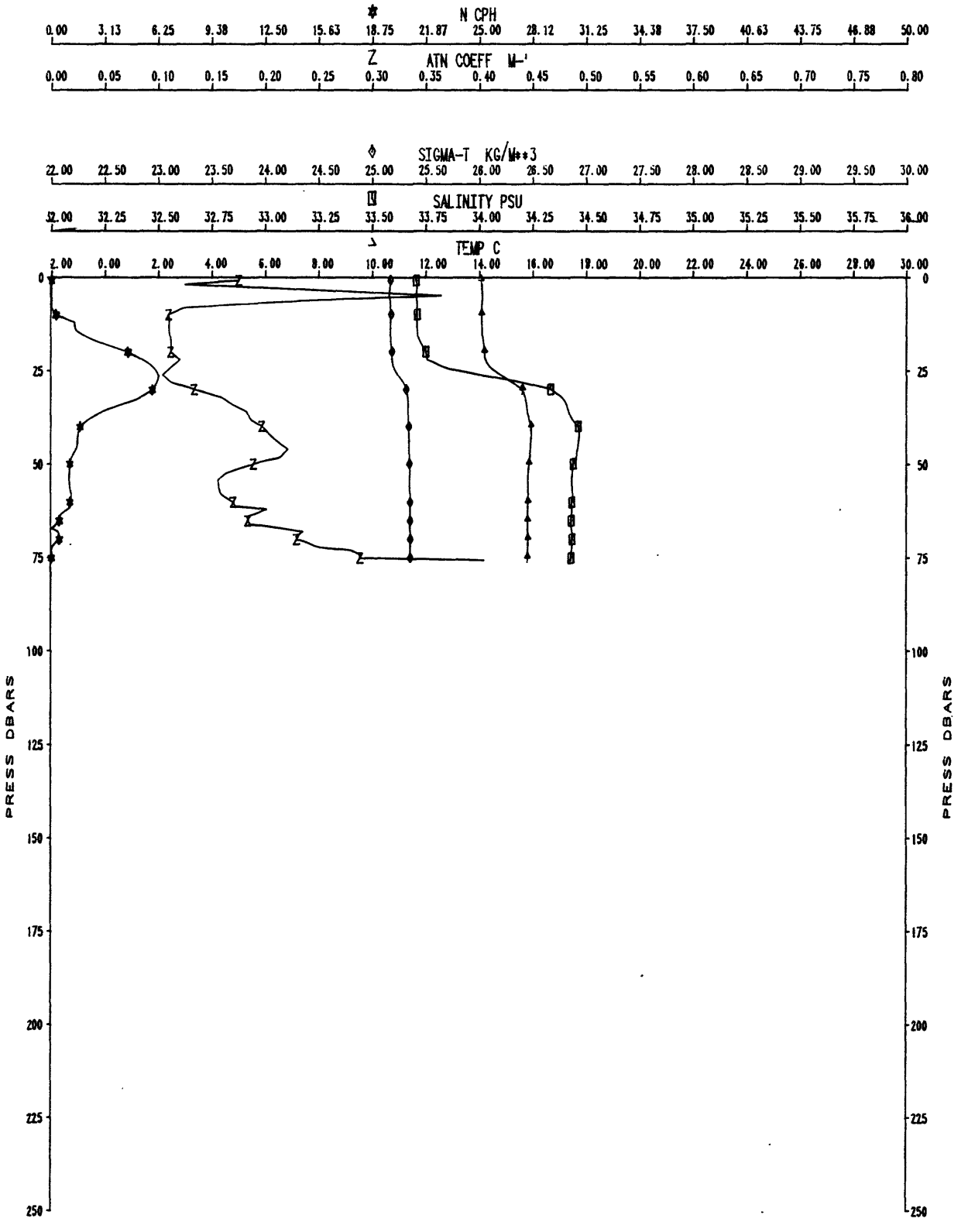
OC159U CAST #40



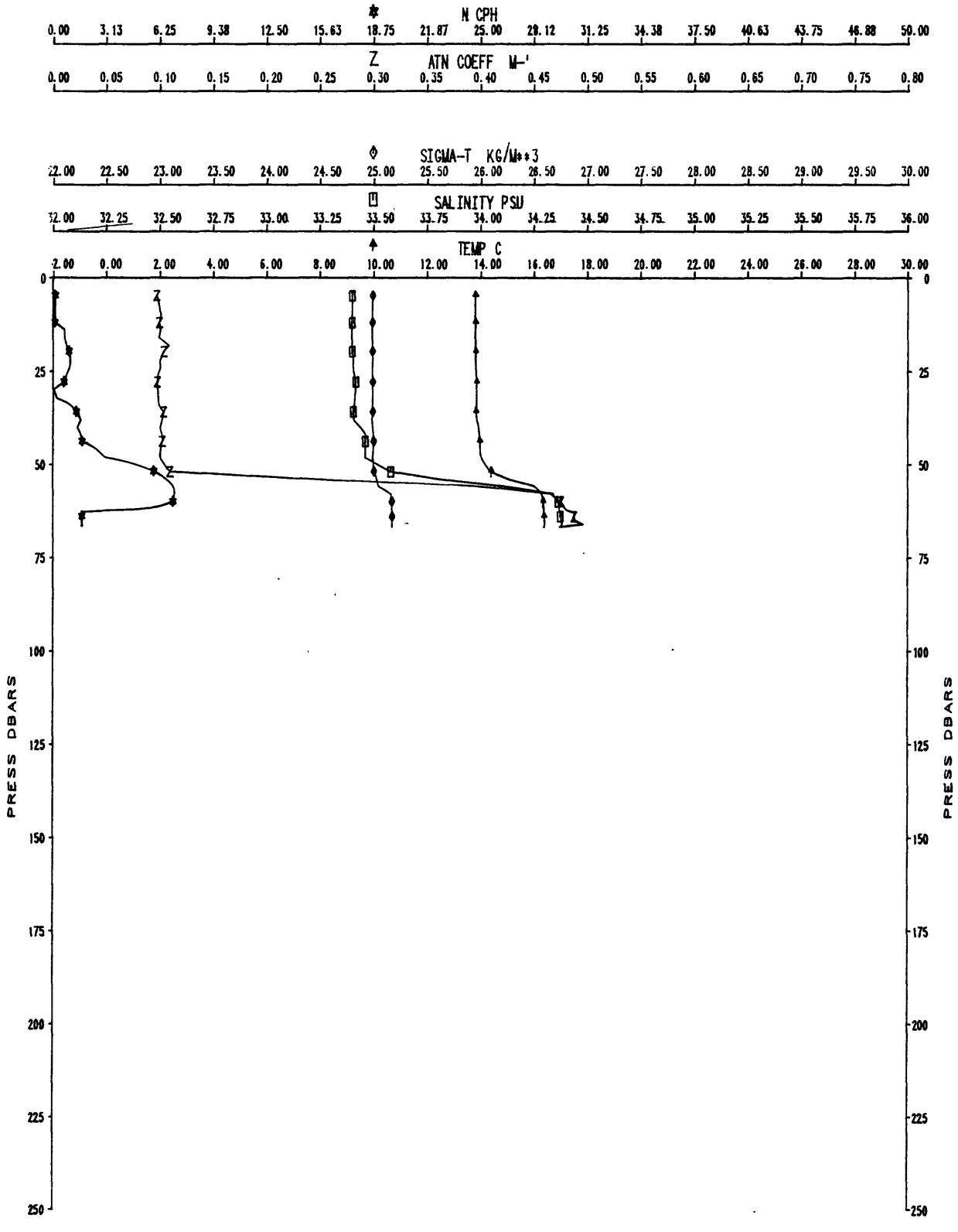
OC159U CAST #41



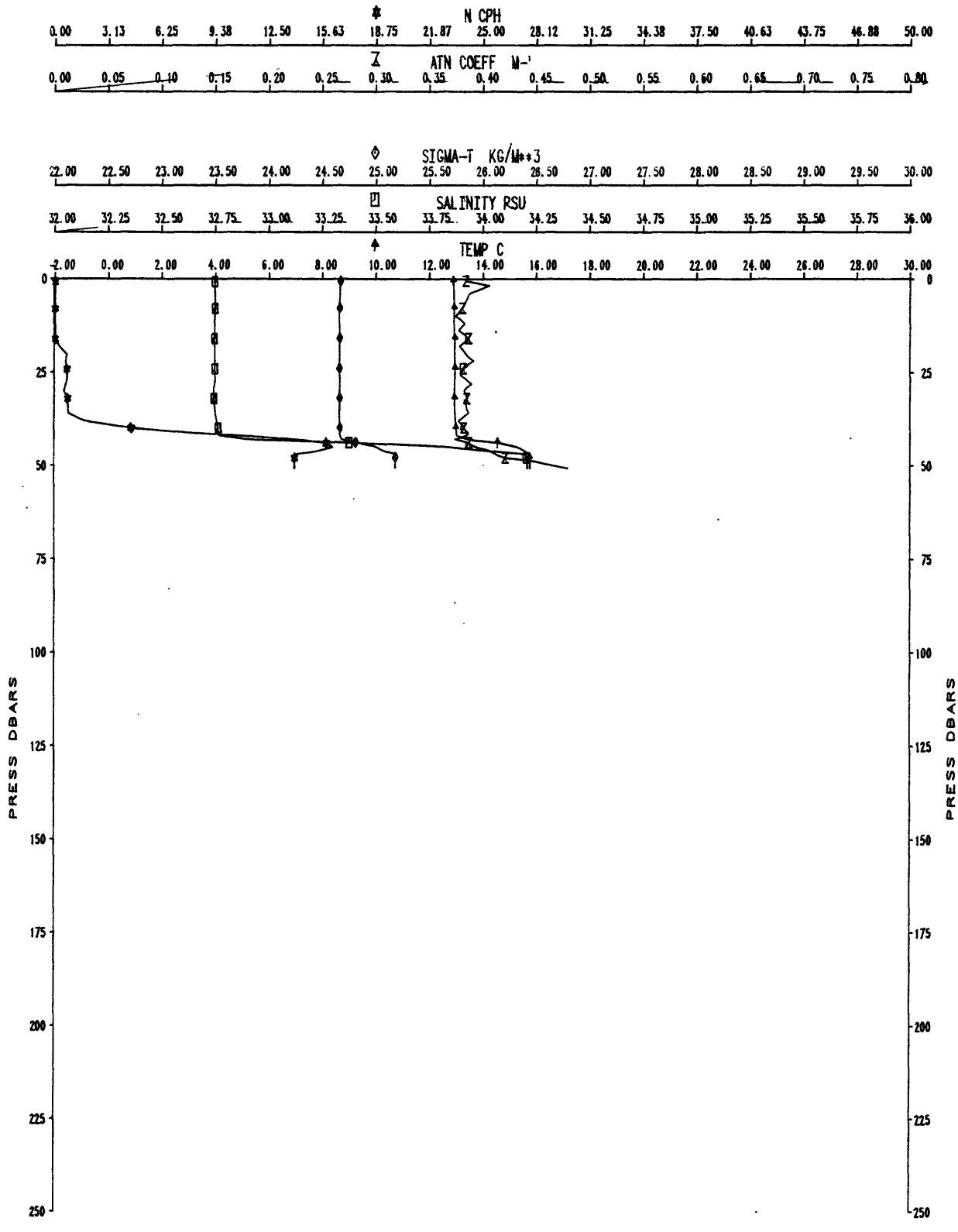
OC159B CAST #42



OC159A CAST #43



OC159A CAST #44



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 (no oxygens are listed due to sensor malfunction), 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. For pressures greater than 500 dbar, the 2-dbar-averaged data are subsampled at 20-dbar intervals. The XBT for stations 32, 34 and 36 malfunctioned so that there is no data for these stations.

SHIP	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH
OC	159	1	15 NOV 1984	2109	39°53.8'N	70°03.7'W	550

DEPTH m	PRESS dbar	TEMP °C	SALIN psu	OXY ml/l	ATN m^{-1}	SIGT gm/cm^3	DYHT A $10m^2/s^2$	S SPD m/s	N cph
4	4.1	15.311	33.968		0.16	25.109	0.000	1507.	2.1
6	6.1	15.309	33.978		0.16	25.117	0.006	1507.	2.1
8	8.0	15.310	33.983		0.16	25.121	0.011	1507.	2.1
10	10.1	15.311	33.988		0.16	25.124	0.017	1507.	2.1
12	11.9	15.313	33.991		0.16	25.126	0.022	1507.	2.1
14	13.9	15.316	33.991		0.16	25.126	0.028	1507.	1.9
16	15.9	15.315	33.994		0.16	25.128	0.033	1507.	1.8
18	17.8	15.316	33.997		0.16	25.130	0.039	1507.	1.8
20	19.9	15.345	34.010		0.16	25.134	0.045	1507.	1.9
22	22.1	15.357	34.017		0.16	25.136	0.051	1507.	1.9
24	24.0	15.367	34.019		0.15	25.136	0.056	1507.	1.8
26	26.1	15.378	34.028		0.15	25.140	0.062	1507.	2.0
28	28.0	15.375	34.029		0.15	25.142	0.067	1507.	2.2
30	29.9	15.380	34.031		0.15	25.142	0.073	1507.	2.3
32	32.0	15.399	34.041		0.15	25.146	0.079	1507.	2.1
34	34.2	15.431	34.060		0.14	25.154	0.085	1507.	3.6
36	35.9	15.445	34.071		0.13	25.159	0.090	1508.	4.7
38	38.0	15.473	34.080		0.12	25.160	0.096	1508.	5.4
40	39.9	15.602	34.107		0.10	25.152	0.101	1508.	5.9
42	41.9	15.819	34.286		0.09	25.240	0.107	1509.	6.3
44	44.2	15.877	34.345		0.09	25.273	0.113	1509.	6.7
46	46.2	15.891	34.359		0.09	25.280	0.118	1509.	6.8
48	47.9	15.868	34.385		0.09	25.305	0.123	1509.	6.8
50	50.2	15.871	34.420		0.09	25.332	0.129	1510.	6.4
52	52.1	15.729	34.439		0.09	25.379	0.134	1509.	6.7
53	53.8	15.759	34.436		0.08	25.369	0.138	1509.	7.0
55	55.8	16.001	34.572		0.07	25.419	0.144	1510.	6.7
58	58.1	15.663	34.519		0.09	25.455	0.149	1509.	6.2
60	60.2	14.830	34.340		0.12	25.501	0.155	1506.	6.3
61	61.9	14.471	34.264		0.11	25.520	0.159	1505.	6.8
64	64.1	14.603	34.286		0.09	25.508	0.164	1506.	7.3
66	66.1	14.999	34.381		0.08	25.496	0.169	1507.	8.0
67	67.8	15.905	34.770		0.05	25.593	0.174	1510.	8.9
70	70.2	16.299	34.980		0.04	25.664	0.179	1512.	10.0
72	72.1	17.001	35.276		0.04	25.727	0.183	1514.	10.7
73	73.8	17.627	35.572		0.04	25.803	0.187	1517.	10.7
75	76.1	18.819	36.074		0.04	25.890	0.192	1521.	10.0
77	78.1	19.291	36.399		0.03	26.017	0.196	1522.	9.0
79	79.8	19.199	36.385		0.03	26.030	0.200	1522.	8.1
81	81.9	19.086	36.365		0.03	26.044	0.204	1522.	7.2
83	84.0	19.015	36.347		0.03	26.048	0.208	1522.	6.7
85	86.1	18.918	36.314		0.03	26.048	0.212	1521.	6.1
87	88.1	18.586	36.259		0.04	26.091	0.216	1520.	6.8
89	89.8	17.267	35.883		0.04	26.129	0.219	1516.	7.4
91	92.1	16.071	35.595		0.03	26.190	0.224	1512.	7.6
93	93.9	16.153	35.614		0.03	26.186	0.227	1513.	7.5
95	95.9	16.483	35.824		0.03	26.271	0.231	1514.	7.0
97	98.2	16.696	35.917		0.03	26.291	0.235	1515.	6.4
99	100.1	16.828	35.971		0.02	26.302	0.238	1515.	5.8
101	102.0	16.843	36.000		0.02	26.321	0.241	1515.	5.7

SHIP	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH
OC	159	1	15 NOV 1984	2109	39°53.8'N	70°03.7'W	550

DEPTH m	PRESS dbar	TEMP °C	SALIN psu	OXY ml/l	ATN m^{-1}	SIGT gm/cm^3	DYHT A $10m^2/s^2$	S SPD m/s	N cph
103	103.8	16.807	35.998		0.02	26.328	0.245	1515.	5.5
105	106.1	16.751	35.992		0.02	26.336	0.249	1515.	5.9
107	107.7	16.516	35.952		0.02	26.361	0.251	1514.	6.2
109	110.1	16.210	35.902		0.03	26.394	0.255	1513.	6.3
111	112.0	15.673	35.808		0.03	26.445	0.258	1512.	6.4
113	114.0	15.360	35.733		0.02	26.458	0.262	1511.	6.5
115	116.0	15.285	35.740		0.02	26.480	0.265	1510.	6.2
117	118.1	15.266	35.754		0.02	26.495	0.268	1510.	5.8
119	120.3	15.249	35.783		0.02	26.521	0.271	1510.	5.4
121	122.0	15.234	35.816		0.02	26.550	0.274	1510.	5.2
123	124.0	15.233	35.833		0.02	26.563	0.277	1510.	4.8
125	126.2	15.226	35.842		0.02	26.572	0.280	1510.	4.4
127	128.1	15.197	35.843		0.02	26.579	0.283	1510.	4.1
129	129.9	15.136	35.835		0.02	26.586	0.286	1510.	4.1
131	132.0	15.028	35.810		0.02	26.591	0.289	1510.	4.3
133	134.1	14.978	35.812		0.02	26.604	0.292	1510.	4.6
135	136.1	14.930	35.821		0.02	26.621	0.295	1510.	4.8
137	138.0	14.916	35.842		0.02	26.641	0.298	1510.	4.9
139	139.9	14.893	35.863		0.02	26.662	0.300	1510.	4.8
141	142.0	14.803	35.854		0.02	26.675	0.303	1509.	4.4
143	143.9	14.761	35.857		0.02	26.687	0.306	1509.	3.9
145	146.0	14.741	35.860		0.02	26.693	0.309	1509.	3.4
147	148.1	14.724	35.860		0.02	26.696	0.312	1509.	2.9
149	150.0	14.708	35.859		0.02	26.700	0.314	1509.	2.4
151	152.0	14.688	35.855		0.02	26.701	0.317	1509.	2.3
153	154.1	14.651	35.851		0.02	26.706	0.320	1509.	2.9
155	156.0	14.652	35.851		0.02	26.706	0.323	1509.	3.3
157	158.0	14.654	35.853		0.02	26.707	0.325	1509.	3.5
159	160.0	14.589	35.848		0.02	26.717	0.328	1509.	3.6
161	162.0	14.408	35.842		0.02	26.752	0.331	1508.	3.6
162	163.8	14.318	35.815		0.02	26.750	0.333	1508.	3.5
165	165.9	14.296	35.809		0.02	26.750	0.336	1508.	3.3
167	168.2	14.287	35.808		0.02	26.751	0.339	1508.	2.8
169	170.0	14.245	35.806		0.02	26.759	0.341	1508.	2.4
170	171.8	14.227	35.805		0.02	26.762	0.344	1508.	2.7
173	174.1	14.167	35.797		0.02	26.768	0.347	1508.	3.0
175	176.1	14.142	35.793		0.02	26.771	0.350	1508.	3.2
177	178.0	14.112	35.795		0.02	26.779	0.352	1508.	3.3
178	179.9	14.055	35.784		0.02	26.782	0.354	1508.	3.4
180	181.8	13.981	35.780		0.02	26.795	0.357	1507.	3.4
182	184.0	13.873	35.762		0.02	26.803	0.360	1507.	3.4
185	186.0	13.805	35.754		0.02	26.812	0.362	1507.	3.4
187	188.0	13.780	35.752		0.02	26.815	0.365	1507.	3.4
188	189.9	13.750	35.751		0.02	26.821	0.367	1507.	3.5
190	192.0	13.712	35.746		0.02	26.825	0.370	1507.	3.6
192	193.9	13.659	35.747		0.02	26.837	0.372	1506.	3.6
194	196.1	13.565	35.735		0.02	26.847	0.375	1506.	3.8
196	198.0	13.443	35.723		0.02	26.863	0.378	1506.	3.9
198	199.7	13.380	35.706		0.02	26.863	0.380	1506.	3.8
201	202.2	13.294	35.693		0.02	26.870	0.383	1505.	3.6

SHIP	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH
OC	159	1	15 NOV 1984	2109	39°53.8'N	70°03.7'W	550

DEPTH m	PRESS dbar	TEMP °C	SALIN psu	OXY ml/l	ATN m^{-1}	SIGT gm/cm^3	DYHT A $10m^2/s^2$	S SPD m/s	N cph
202	204.0	13.180	35.683		0.02	26.886	0.385	1505.	3.5
204	205.9	13.085	35.664		0.02	26.891	0.387	1505.	3.3
206	208.2	13.017	35.651		0.02	26.895	0.390	1504.	3.2
208	209.9	12.966	35.646		0.02	26.901	0.392	1504.	2.9
210	211.8	12.910	35.638		0.02	26.906	0.394	1504.	2.5
212	214.1	12.848	35.627		0.02	26.910	0.397	1504.	2.4
214	216.1	12.832	35.624		0.02	26.911	0.399	1504.	2.5
216	217.9	12.822	35.625		0.02	26.914	0.401	1504.	2.5
218	219.9	12.796	35.620		0.02	26.915	0.404	1504.	2.7
220	221.9	12.764	35.619		0.02	26.921	0.406	1504.	3.0
222	223.8	12.678	35.606		0.02	26.928	0.408	1504.	3.1
224	226.3	12.621	35.600		0.02	26.934	0.411	1503.	3.2
226	227.9	12.584	35.603		0.02	26.944	0.413	1503.	3.2
228	229.9	12.547	35.602		0.02	26.951	0.416	1503.	3.4
230	232.1	12.511	35.596		0.01	26.953	0.418	1503.	3.6
232	233.9	12.485	35.596		0.01	26.959	0.420	1503.	3.6
234	236.1	12.438	35.593		0.01	26.966	0.423	1503.	3.5
236	237.9	12.335	35.592		0.01	26.985	0.425	1503.	3.4
238	240.1	12.232	35.579		0.01	26.995	0.427	1502.	3.4
240	242.0	12.119	35.547		0.01	26.992	0.429	1502.	3.1
242	243.9	12.070	35.540		0.01	26.996	0.432	1502.	2.8
244	246.0	11.999	35.530		0.01	27.001	0.434	1502.	2.4
246	247.9	11.944	35.521		0.01	27.005	0.436	1501.	2.2
248	250.1	11.893	35.511		0.01	27.007	0.438	1501.	2.4
250	252.1	11.855	35.507		0.01	27.012	0.441	1501.	2.4
252	253.8	11.820	35.499		0.01	27.012	0.442	1501.	2.4
254	256.2	11.791	35.494		0.01	27.013	0.445	1501.	2.5
256	257.8	11.740	35.494		0.01	27.023	0.447	1501.	2.5
258	259.9	11.652	35.475		0.01	27.025	0.449	1500.	2.7
260	262.2	11.599	35.468		0.01	27.030	0.452	1500.	2.9
262	264.1	11.567	35.465		0.01	27.033	0.454	1500.	3.2
264	266.0	11.551	35.462		0.01	27.034	0.456	1500.	3.3
266	267.9	11.480	35.462		0.01	27.048	0.458	1500.	3.7
268	270.0	11.352	35.444		0.02	27.057	0.460	1500.	4.0
270	272.0	11.211	35.425		0.01	27.068	0.462	1499.	3.9
272	274.1	11.140	35.413		0.02	27.072	0.464	1499.	3.8
274	276.0	11.044	35.421		0.02	27.096	0.466	1499.	3.5
276	278.0	10.945	35.403		0.02	27.100	0.468	1498.	3.4
278	280.0	10.868	35.379		0.02	27.095	0.470	1498.	3.1
280	282.0	10.834	35.378		0.02	27.100	0.472	1498.	2.9
281	283.7	10.732	35.360		0.02	27.105	0.474	1498.	2.5
284	286.1	10.631	35.349		0.02	27.114	0.476	1497.	2.7
286	288.1	10.601	35.344		0.02	27.116	0.479	1497.	2.9
287	289.7	10.564	35.338		0.02	27.118	0.480	1497.	3.2
290	292.0	10.528	35.335		0.02	27.122	0.482	1497.	3.6
292	294.1	10.491	35.338		0.02	27.130	0.485	1497.	3.9
293	295.9	10.387	35.323		0.02	27.137	0.486	1496.	4.1
296	298.3	10.177	35.301		0.02	27.157	0.489	1496.	4.3
297	299.8	10.060	35.300		0.02	27.177	0.490	1495.	4.2
300	302.0	9.891	35.265		0.02	27.178	0.492	1495.	4.1

SHIP	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH
OC	159	1	15 NOV 1984	2109	39°53.8'N	70°03.7'W	550

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
302	304.1	9.802	35.262		0.02	27.191	0.494	1494.	3.9
303	305.8	9.725	35.249		0.02	27.194	0.496	1494.	3.6
305	308.0	9.682	35.245		0.02	27.198	0.498	1494.	3.5
307	310.0	9.609	35.247		0.02	27.212	0.500	1494.	3.5
309	311.8	9.492	35.226		0.02	27.215	0.501	1493.	3.4
311	314.1	9.410	35.216		0.02	27.221	0.503	1493.	3.2
313	316.0	9.298	35.210		0.02	27.234	0.505	1493.	3.0
315	317.9	9.265	35.205		0.03	27.236	0.507	1493.	2.6
317	320.2	9.235	35.202		0.02	27.239	0.509	1493.	2.4
319	322.1	9.221	35.200		0.02	27.239	0.510	1493.	2.2
321	323.8	9.214	35.200		0.02	27.241	0.512	1493.	2.0
323	326.0	9.202	35.198		0.02	27.241	0.514	1493.	2.0
325	328.1	9.157	35.197		0.02	27.247	0.516	1492.	2.1
327	330.0	9.122	35.195		0.02	27.251	0.517	1492.	2.3
329	331.9	9.089	35.188		0.02	27.251	0.519	1492.	2.4
331	333.9	9.061	35.185		0.02	27.254	0.521	1492.	2.7
333	336.1	9.027	35.184		0.02	27.258	0.523	1492.	3.0
335	338.0	8.982	35.183		0.02	27.265	0.524	1492.	3.6
337	339.8	8.955	35.181		0.02	27.268	0.526	1492.	3.9
339	341.9	8.856	35.176		0.03	27.280	0.528	1492.	4.1
341	344.1	8.701	35.165		0.03	27.296	0.530	1491.	4.1
343	346.0	8.541	35.160		0.03	27.316	0.531	1490.	4.0
345	348.0	8.479	35.150		0.03	27.318	0.533	1490.	3.8
347	349.8	8.434	35.147		0.03	27.323	0.534	1490.	3.5
349	352.2	8.370	35.139		0.03	27.327	0.536	1490.	3.3
351	353.9	8.311	35.138		0.03	27.335	0.537	1490.	3.0
353	356.0	8.282	35.136		0.03	27.338	0.539	1490.	3.0
355	358.1	8.225	35.135		0.03	27.346	0.541	1489.	2.8
356	359.5	8.169	35.133		0.03	27.353	0.542	1489.	2.7
359	362.0	8.130	35.128		0.03	27.355	0.544	1489.	2.5
361	363.8	8.109	35.125		0.03	27.356	0.545	1489.	2.3
363	365.9	8.091	35.125		0.03	27.358	0.547	1489.	2.1
365	368.2	8.058	35.123		0.03	27.362	0.549	1489.	2.0
367	370.0	8.042	35.123		0.03	27.365	0.550	1489.	2.1
369	371.8	8.022	35.123		0.03	27.367	0.551	1489.	2.2
371	374.2	8.003	35.121		0.03	27.369	0.553	1489.	2.4
373	376.0	7.986	35.122		0.03	27.372	0.555	1489.	2.6
375	378.0	7.959	35.121		0.03	27.375	0.556	1489.	3.3
377	379.9	7.924	35.122		0.03	27.381	0.558	1489.	3.7
379	381.9	7.874	35.121		0.03	27.388	0.559	1488.	4.0
381	384.1	7.751	35.107		0.02	27.395	0.561	1488.	3.9
383	386.0	7.517	35.107		0.03	27.430	0.562	1487.	3.8
384	387.8	7.439	35.092		0.03	27.429	0.563	1487.	3.4
387	390.0	7.401	35.088		0.03	27.431	0.565	1487.	2.9
389	392.3	7.394	35.088		0.03	27.433	0.567	1487.	2.2
390	393.8	7.397	35.088		0.04	27.432	0.568	1487.	1.0
393	396.1	7.396	35.088		0.04	27.433	0.569	1487.	0.8
395	398.1	7.393	35.088		0.04	27.433	0.571	1487.	0.7
396	399.9	7.393	35.088		0.04	27.433	0.572	1487.	1.0
399	402.2	7.392	35.089		0.04	27.433	0.574	1487.	1.4

SHIP	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH
OC	159	1	15 NOV 1984	2109	39°53.8'N	70°03.7'W	550

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
401	404.1	7.391	35.088		0.04	27.433	0.575	1487.	1.8
403	406.1	7.382	35.088		0.04	27.434	0.576	1487.	2.1
404	407.9	7.344	35.086		0.05	27.438	0.578	1487.	2.3
406	409.9	7.317	35.088		0.05	27.444	0.579	1487.	2.4
409	412.1	7.243	35.084		0.04	27.451	0.581	1486.	2.3
410	413.8	7.214	35.080		0.04	27.452	0.582	1486.	2.1
412	416.0	7.200	35.080		0.04	27.454	0.583	1486.	1.8
414	418.1	7.191	35.079		0.04	27.454	0.585	1486.	1.4
416	419.9	7.187	35.079		0.04	27.455	0.586	1486.	0.9
418	421.9	7.186	35.078		0.04	27.455	0.587	1486.	0.8
421	424.2	7.184	35.078		0.04	27.455	0.589	1486.	0.5
422	426.0	7.184	35.078		0.03	27.455	0.590	1486.	0.4
424	428.1	7.185	35.079		0.03	27.455	0.591	1486.	0.3
426	430.1	7.184	35.078		0.03	27.455	0.593	1487.	0.3
428	431.9	7.184	35.078		0.03	27.455	0.594	1487.	0.2
430	434.1	7.184	35.078		0.03	27.455	0.596	1487.	0.2
432	436.1	7.184	35.078		0.04	27.455	0.597	1487.	0.3
434	437.6	7.183	35.078		0.04	27.455	0.598	1487.	0.3
436	440.1	7.184	35.078		0.04	27.455	0.600	1487.	0.4
438	442.2	7.184	35.079		0.04	27.455	0.601	1487.	0.5
440	443.9	7.183	35.078		0.04	27.455	0.602	1487.	0.7
442	446.1	7.182	35.078		0.04	27.455	0.604	1487.	0.9
443	447.4	7.180	35.078		0.04	27.456	0.605	1487.	1.2
447	450.8	7.170	35.077		0.04	27.456	0.607	1487.	1.5
448	451.9	7.156	35.078		0.04	27.459	0.608	1487.	1.7
450	454.1	7.143	35.076		0.04	27.459	0.609	1487.	1.8
452	455.9	7.122	35.077		0.04	27.463	0.611	1487.	1.9
454	457.8	7.086	35.076		0.04	27.467	0.612	1487.	2.1
456	460.0	7.068	35.074		0.04	27.468	0.613	1487.	2.2
458	462.1	7.054	35.073		0.04	27.469	0.615	1487.	2.4
460	464.1	7.037	35.074		0.04	27.472	0.616	1487.	2.7
462	465.8	6.988	35.072		0.04	27.477	0.617	1486.	3.1
464	468.2	6.924	35.068		0.04	27.483	0.619	1486.	3.5
466	470.0	6.886	35.066		0.04	27.487	0.620	1486.	3.7
468	471.9	6.787	35.069		0.05	27.503	0.621	1486.	3.8
470	474.0	6.658	35.058		0.05	27.512	0.623	1485.	3.8
472	475.9	6.578	35.059		0.05	27.524	0.624	1485.	3.6
474	477.9	6.486	35.050		0.05	27.528	0.625	1485.	3.5
476	480.3	6.427	35.046		0.05	27.533	0.627	1484.	3.2
478	482.0	6.396	35.044		0.05	27.536	0.628	1484.	2.9
480	483.9	6.366	35.044		0.05	27.540	0.629	1484.	2.8
482	486.0	6.302	35.043		0.04	27.548	0.630	1484.	2.6
484	487.9	6.252	35.039		0.04	27.551	0.631	1484.	2.5
486	490.2	6.213	35.035		0.04	27.553	0.633	1484.	2.3
488	492.0	6.186	35.036		0.06	27.558	0.634	1484.	2.0
489	493.8	6.168	35.033		0.12	27.558	0.635	1484.	1.7
492	496.2	6.159	35.033		0.14	27.558	0.636	1484.	1.5
493	497.9	6.159	35.033		0.13	27.559	0.637	1484.	1.5
496	500.0	6.150	35.034		0.17	27.560	0.638	1484.	1.4
516	520.2	6.052	35.029		0.07	27.569	0.650	1484.	1.0

SHIP	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH
OC	159	2	15 NOV 1984	2235	39°57.9'N	70°00.8'W	183

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	15.479	34.007		0.20	25.102	0.000	1507.	1.5
4	3.8	15.470	34.003		0.19	25.100	0.005	1507.	1.5
6	6.1	15.478	34.005		0.18	25.100	0.011	1507.	1.5
8	8.0	15.483	34.007		0.18	25.101	0.016	1507.	1.5
10	10.1	15.486	34.009		0.17	25.101	0.022	1507.	1.5
12	11.9	15.478	34.006		0.17	25.101	0.028	1507.	1.6
14	14.0	15.468	34.001		0.16	25.099	0.034	1507.	1.4
16	16.1	15.524	34.026		0.16	25.106	0.040	1507.	1.0
18	17.9	15.519	34.040		0.16	25.118	0.045	1507.	1.2
20	20.2	15.493	34.020		0.16	25.109	0.051	1507.	1.6
22	22.0	15.469	34.004		0.16	25.102	0.056	1507.	2.8
24	23.9	15.485	34.008		0.16	25.101	0.062	1507.	4.0
26	26.1	15.556	34.044		0.16	25.113	0.068	1508.	4.8
28	28.0	15.629	34.075		0.16	25.120	0.074	1508.	5.4
30	29.8	15.706	34.156		0.15	25.166	0.079	1508.	5.6
32	32.0	15.643	34.196		0.15	25.211	0.085	1508.	5.5
34	34.0	15.608	34.200		0.15	25.222	0.090	1508.	5.1
36	36.0	15.596	34.202		0.14	25.226	0.096	1508.	4.4
38	38.0	15.568	34.203		0.13	25.233	0.101	1508.	3.4
40	40.1	15.559	34.202		0.13	25.234	0.107	1508.	2.5
42	42.1	15.554	34.202		0.12	25.235	0.113	1508.	2.2
44	44.0	15.543	34.202		0.12	25.238	0.118	1508.	2.1
46	46.1	15.518	34.202		0.11	25.243	0.123	1508.	1.9
48	48.1	15.504	34.202		0.11	25.246	0.129	1508.	1.8
50	50.0	15.501	34.202		0.12	25.247	0.134	1508.	2.4
52	52.0	15.498	34.202		0.12	25.248	0.139	1508.	4.2
54	54.1	15.495	34.202		0.11	25.248	0.145	1508.	5.4
56	56.0	15.499	34.203		0.10	25.248	0.150	1508.	6.3
57	57.9	15.459	34.232		0.08	25.279	0.156	1508.	7.2
60	60.0	15.069	34.240		0.07	25.371	0.161	1507.	7.9
62	62.2	14.663	34.169		0.07	25.405	0.167	1506.	8.7
63	63.9	14.415	34.138		0.07	25.434	0.171	1505.	9.0
66	66.1	14.275	34.159		0.07	25.480	0.177	1504.	8.9
67	67.8	14.203	34.215		0.07	25.538	0.181	1504.	8.5
70	70.3	14.146	34.315		0.07	25.627	0.187	1504.	8.4
71	72.0	14.062	34.335		0.07	25.661	0.191	1504.	8.0
73	73.9	14.016	34.336		0.07	25.671	0.195	1504.	7.6
76	76.2	13.967	34.368		0.08	25.706	0.201	1504.	7.7
77	78.0	13.991	34.423		0.08	25.744	0.205	1504.	7.6
79	79.9	14.010	34.443		0.08	25.755	0.209	1504.	7.8
81	82.1	14.478	34.624		0.07	25.796	0.214	1506.	7.7
83	84.0	14.969	34.917		0.07	25.916	0.218	1508.	7.7
85	86.1	15.142	34.966		0.06	25.915	0.223	1508.	7.4
87	88.0	15.295	35.042		0.06	25.940	0.226	1509.	7.1
89	89.9	15.809	35.186		0.05	25.935	0.230	1511.	6.5
91	92.0	16.143	35.370		0.05	26.000	0.235	1512.	5.6
93	94.0	16.264	35.423		0.05	26.013	0.239	1513.	5.5
95	96.1	16.280	35.453		0.05	26.032	0.243	1513.	5.3
97	98.1	16.293	35.477		0.05	26.048	0.247	1513.	5.1
99	100.0	16.368	35.505		0.05	26.052	0.251	1513.	5.2

SHIP	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH
OC	159	2	15 NOV 1984	2235	39°57.9'N	70°00.8'W	183

DEPTH m	PRESS dbar	TEMP °C	SALIN psu	OXY ml/l	ATN m^{-1}	SIGT gm/cm^3	DYHT A $10m^2/s^2$	S SPD m/s	N cph
101	102.0	16.457	35.545		0.05	26.062	0.255	1513.	6.0
103	103.9	16.698	35.636		0.05	26.075	0.259	1514.	6.7
105	106.2	17.217	35.833		0.04	26.103	0.263	1516.	7.1
107	107.8	17.267	35.936		0.04	26.169	0.266	1516.	7.5
109	110.3	17.067	35.937		0.04	26.219	0.271	1516.	7.9
111	111.9	16.786	35.900		0.04	26.258	0.273	1515.	7.9
113	114.1	16.687	35.887		0.04	26.271	0.277	1515.	7.8
115	115.9	16.441	35.866		0.04	26.313	0.281	1514.	7.4
117	117.9	16.156	35.844		0.04	26.362	0.284	1513.	7.2
119	120.1	16.005	35.826		0.04	26.383	0.288	1513.	6.9
121	122.0	15.829	35.828		0.04	26.425	0.291	1512.	6.8
123	124.2	15.766	35.831		0.04	26.442	0.294	1512.	6.5
125	125.9	15.679	35.838		0.04	26.467	0.297	1512.	6.2
127	128.2	15.578	35.833		0.04	26.486	0.301	1512.	6.4
129	130.1	15.468	35.829		0.04	26.508	0.304	1511.	6.2
131	131.9	15.364	35.836		0.05	26.537	0.307	1511.	6.2
133	134.2	15.243	35.835		0.05	26.563	0.310	1511.	5.9
135	135.8	15.042	35.828		0.05	26.602	0.312	1510.	5.7
137	138.2	14.974	35.813		0.06	26.605	0.316	1510.	5.4
139	139.8	14.914	35.818		0.06	26.623	0.318	1510.	5.1
141	142.1	14.886	35.817		0.06	26.628	0.322	1510.	4.7
143	143.8	14.818	35.821		0.06	26.646	0.324	1509.	4.4
145	146.0	14.731	35.817		0.06	26.662	0.327	1509.	4.3
147	148.0	14.602	35.797		0.06	26.674	0.330	1509.	4.1
149	150.0	14.463	35.767		0.06	26.682	0.333	1508.	3.8
151	151.8	14.344	35.741		0.06	26.688	0.335	1508.	3.4
153	154.0	14.289	35.736		0.06	26.695	0.338	1508.	3.2
155	156.0	14.270	35.736		0.06	26.699	0.341	1508.	3.0
157	158.0	14.234	35.733		0.06	26.705	0.344	1508.	3.1
159	159.8	14.201	35.727		0.06	26.707	0.346	1508.	3.6
161	162.0	14.155	35.723		0.06	26.714	0.349	1507.	3.9
163	164.0	14.115	35.718		0.06	26.719	0.352	1507.	4.3
165	166.2	14.032	35.719		0.06	26.737	0.355	1507.	4.6
166	167.7	13.862	35.709		0.06	26.765	0.357	1507.	4.9
169	170.0	13.795	35.699		0.06	26.771	0.360	1506.	5.2
170	171.3	13.705	35.695		0.06	26.787	0.362	1506.	5.4
171	172.1	13.663	35.683		0.06	26.787	0.363	1506.	5.4
172	173.0	13.562	35.674		0.06	26.801	0.364	1506.	5.2
173	174.0	13.507	35.676		0.06	26.813	0.365	1506.	5.3
174	175.0	13.435	35.670		0.05	26.824	0.366	1505.	5.0
175	176.0	13.356	35.661		0.06	26.833	0.368	1505.	4.7
176	177.0	13.336	35.655		0.06	26.833	0.369	1505.	4.3
177	177.9	13.317	35.652		0.06	26.834	0.370	1505.	4.3
178	179.0	13.290	35.654		0.06	26.842	0.371	1505.	4.3
179	180.1	13.241	35.644		0.06	26.844	0.373	1505.	4.3
179	180.9	13.192	35.644		0.05	26.854	0.374	1505.	4.3

SHIP	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH
OC	159	3	15 NOV 1984	2358	40°05.1'N	69°59.8'W	143

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	14.542	33.617		0.13	25.005	0.000	1504.	-0.4
4	4.2	14.542	33.617		0.13	25.005	0.006	1504.	-0.4
6	6.1	14.543	33.617		0.13	25.005	0.012	1504.	-0.4
8	7.9	14.542	33.617		0.13	25.005	0.017	1504.	-0.4
10	9.8	14.541	33.616		0.13	25.004	0.023	1504.	-0.4
12	12.1	14.541	33.616		0.13	25.004	0.029	1504.	-0.3
14	13.8	14.540	33.616		0.14	25.004	0.035	1504.	-0.3
16	16.2	14.541	33.616		0.13	25.004	0.042	1504.	-0.2
18	18.0	14.541	33.615		0.13	25.004	0.047	1504.	-0.1
20	19.9	14.539	33.615		0.13	25.004	0.053	1504.	0.2
22	22.3	14.538	33.614		0.13	25.004	0.059	1504.	-0.1
24	23.7	14.539	33.615		0.13	25.004	0.064	1504.	0.1
26	26.1	14.539	33.615		0.13	25.004	0.071	1504.	0.3
28	28.0	14.540	33.615		0.13	25.004	0.076	1504.	0.4
30	29.8	14.538	33.614		0.13	25.004	0.082	1504.	0.5
32	31.9	14.543	33.616		0.13	25.004	0.088	1504.	0.4
34	33.8	14.546	33.617		0.13	25.005	0.093	1504.	0.4
36	36.2	14.543	33.617		0.13	25.005	0.101	1504.	0.4
38	38.2	14.545	33.617		0.13	25.004	0.106	1504.	0.3
40	40.1	14.544	33.616		0.13	25.004	0.112	1504.	0.4
42	41.8	14.546	33.617		0.13	25.004	0.117	1504.	0.3
44	44.1	14.544	33.617		0.13	25.004	0.124	1504.	0.3
46	46.0	14.545	33.616		0.13	25.004	0.130	1504.	0.6
48	47.9	14.549	33.619		0.13	25.005	0.135	1504.	1.2
50	50.1	14.546	33.617		0.13	25.004	0.142	1504.	1.9
52	52.0	14.552	33.618		0.13	25.004	0.147	1504.	3.5
53	53.9	14.665	33.653		0.13	25.007	0.153	1505.	4.8
56	56.2	14.815	33.706		0.12	25.015	0.160	1505.	5.9
57	57.8	15.224	33.842		0.11	25.031	0.164	1507.	6.8
60	60.3	15.883	34.113		0.10	25.093	0.172	1509.	7.3
61	61.9	16.244	34.288		0.10	25.145	0.176	1511.	7.7
64	64.2	16.556	34.433		0.10	25.184	0.183	1512.	7.8
65	65.9	16.772	34.555		0.09	25.227	0.187	1513.	7.7
68	68.3	16.597	34.518		0.09	25.240	0.194	1512.	7.4
69	69.9	16.367	34.509		0.09	25.286	0.198	1511.	7.1
72	72.2	15.897	34.401		0.12	25.311	0.205	1510.	6.8
73	74.0	15.376	34.304		0.14	25.353	0.209	1508.	6.7
75	76.0	15.149	34.270		0.15	25.377	0.215	1508.	6.6
77	77.8	15.037	34.258		0.15	25.393	0.219	1507.	6.8
80	80.2	14.791	34.215		0.12	25.413	0.226	1506.	6.9
81	81.9	14.369	34.145		0.12	25.449	0.230	1505.	7.1
84	84.2	14.274	34.142		0.12	25.467	0.236	1505.	7.3
85	86.0	13.602	34.061		0.11	25.544	0.240	1502.	7.4
87	88.1	13.494	34.047		0.11	25.556	0.245	1502.	7.6
89	90.0	13.544	34.120		0.10	25.602	0.250	1502.	7.4
91	91.8	13.652	34.171		0.09	25.619	0.254	1503.	7.2
93	94.1	13.948	34.305		0.09	25.661	0.259	1504.	6.6
95	95.8	14.015	34.377		0.09	25.703	0.263	1504.	6.4
97	98.2	14.064	34.416		0.09	25.723	0.269	1505.	6.1
99	99.9	14.076	34.432		0.10	25.733	0.273	1505.	6.1

SHIP	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH
OC	159	3	15 NOV 1984	2358	40°05.1'N	69°59.8'W	143

DEPTH m	PRESS dbar	TEMP °C	SALIN psu	OXY ml/l	ATN m^{-1}	SIGT gm/cm^3	DYHT A $10m^2/s^2$	S SPD m/s	N cph
101	102.0	14.104	34.457		0.11	25.746	0.278	1505.	6.4
103	104.0	14.137	34.495		0.13	25.769	0.282	1505.	6.7
105	106.0	14.181	34.542		0.15	25.796	0.287	1505.	7.2
107	108.0	14.289	34.632		0.22	25.842	0.291	1506.	7.5
109	110.0	14.393	34.732		0.26	25.898	0.295	1506.	7.6
111	112.1	14.482	34.800		0.26	25.931	0.300	1507.	7.4
113	113.9	14.569	34.870		0.25	25.967	0.304	1507.	7.4
115	116.0	14.644	34.935		0.25	26.000	0.308	1507.	7.4
117	118.2	14.669	34.966		0.24	26.019	0.312	1508.	7.9
119	120.0	14.706	34.995		0.25	26.033	0.316	1508.	8.8
121	122.2	14.810	35.103		0.26	26.094	0.320	1508.	9.4
123	124.0	14.941	35.217		0.26	26.153	0.324	1509.	9.8
125	126.0	15.041	35.385		0.24	26.261	0.327	1509.	10.0
127	128.1	15.090	35.512		0.26	26.347	0.331	1510.	9.9
129	129.9	15.076	35.564		0.34	26.391	0.334	1510.	9.3
130	131.3	15.069	35.575		0.36	26.401	0.336	1510.	8.2
131	131.9	15.067	35.578		0.36	26.404	0.337	1510.	6.3
132	133.0	15.068	35.579		0.37	26.404	0.339	1510.	4.1
133	134.1	15.068	35.579		0.38	26.404	0.341	1510.	2.9
134	134.9	15.068	35.580		0.37	26.405	0.342	1510.	2.9
135	136.0	15.068	35.582		0.38	26.406	0.344	1510.	3.0
136	137.0	15.067	35.586		0.37	26.410	0.346	1510.	3.2
137	138.0	15.065	35.600		0.37	26.421	0.347	1510.	3.2
138	139.0	15.065	35.602		0.37	26.422	0.349	1510.	3.2
139	140.0	15.066	35.603		0.36	26.424	0.351	1510.	3.2
140	141.0	15.066	35.604		0.37	26.424	0.352	1510.	3.2

SHIP	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH
OC	159	4	16 NOV 1984	0033	40°10.0'N	69°58.5'W	105

DEPTH m	PRESS dbar	TEMP °C	SALIN psu	OXY ml/l	ATN m^{-1}	SIGT gm/cm^3	DYHT A $10m^2/s^2$	S SPD m/s	N cph
4	3.6	14.361	33.539		0.13	24.983	0.000	1503.	0.6
6	5.8	14.365	33.540		0.12	24.983	0.007	1503.	0.6
8	8.2	14.366	33.541		0.13	24.984	0.014	1503.	0.6
10	9.6	14.370	33.541		0.13	24.983	0.018	1503.	0.6
12	12.1	14.376	33.542		0.12	24.983	0.025	1503.	0.6
14	14.0	14.377	33.543		0.13	24.983	0.031	1503.	0.5
16	16.1	14.377	33.543		0.13	24.983	0.037	1503.	0.4
18	18.2	14.377	33.545		0.13	24.984	0.043	1503.	0.3
20	19.9	14.374	33.544		0.12	24.984	0.049	1503.	-0.1
22	21.7	14.372	33.542		0.13	24.983	0.054	1503.	-0.3
24	24.0	14.372	33.542		0.13	24.983	0.061	1503.	-0.5
26	26.4	14.373	33.541		0.13	24.982	0.068	1503.	-0.5
28	28.0	14.372	33.542		0.13	24.983	0.072	1503.	-0.4
30	30.3	14.370	33.541		0.13	24.983	0.079	1503.	-0.3
32	32.2	14.372	33.540		0.13	24.982	0.085	1503.	-0.6
34	33.9	14.372	33.542		0.13	24.983	0.090	1504.	-0.7
36	36.1	14.372	33.541		0.13	24.982	0.096	1504.	1.1
38	38.2	14.374	33.541		0.13	24.982	0.103	1504.	1.5
40	40.1	14.392	33.542		0.12	24.979	0.109	1504.	2.4
42	42.0	14.467	33.564		0.12	24.980	0.114	1504.	3.1
43	43.8	14.574	33.617		0.12	24.999	0.120	1504.	4.7
46	46.0	14.723	33.653		0.11	24.994	0.126	1505.	5.7
48	47.9	15.122	33.801		0.10	25.022	0.132	1506.	7.1
50	50.1	15.517	33.931		0.09	25.035	0.138	1508.	8.1
52	51.9	16.277	34.275		0.08	25.128	0.143	1511.	8.5
54	54.1	16.785	34.449		0.07	25.143	0.149	1512.	8.9
55	55.9	17.938	34.962		0.07	25.259	0.155	1516.	8.5
57	57.8	18.379	35.181		0.07	25.318	0.160	1518.	7.9
60	60.1	18.581	35.246		0.07	25.317	0.166	1519.	6.5
61	61.7	18.730	35.333		0.07	25.346	0.170	1519.	5.4
64	64.1	18.763	35.350		0.07	25.350	0.176	1519.	3.6
65	65.9	18.811	35.357		0.07	25.344	0.181	1520.	2.5
68	68.3	18.873	35.378		0.07	25.344	0.187	1520.	2.1
69	70.0	18.905	35.392		0.06	25.346	0.192	1520.	1.4
71	71.8	18.946	35.409		0.07	25.349	0.197	1520.	1.6
74	74.4	18.953	35.418		0.06	25.354	0.204	1520.	3.6
75	76.1	18.956	35.419		0.07	25.354	0.208	1520.	5.1
78	78.3	18.957	35.419		0.06	25.354	0.214	1520.	6.2
80	80.3	18.942	35.422		0.07	25.360	0.219	1520.	6.6
81	82.0	18.216	35.305		0.07	25.453	0.223	1518.	6.7
83	84.0	17.384	35.110		0.08	25.508	0.229	1515.	6.8
85	85.9	16.801	34.978		0.08	25.545	0.233	1514.	7.5
87	87.9	16.655	34.892		0.08	25.513	0.238	1513.	7.6
89	90.1	16.568	34.858		0.08	25.508	0.244	1513.	7.1
91	92.0	16.272	34.847		0.09	25.568	0.248	1512.	7.0
93	93.9	15.304	34.719		0.15	25.689	0.253	1509.	7.3
94	95.2	14.731	34.547		0.29	25.682	0.256	1507.	7.8
95	96.0	14.682	34.510		0.33	25.664	0.258	1507.	7.5
96	97.0	14.634	34.502		0.36	25.668	0.260	1507.	5.9
97	97.8	14.533	34.498		0.37	25.687	0.262	1506.	3.3

SHIP	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH
OC	159	4	16 NOV 1984	0033	40°10.0'N	69°58.5'W	105

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
98	99.1	14.499	34.501		0.38	25.697	0.265	1506.	3.9
99	100.1	14.487	34.502		0.39	25.700	0.267	1506.	4.1
100	100.8	14.479	34.501		0.39	25.700	0.269	1506.	4.1
101	102.0	14.473	34.498		0.40	25.700	0.272	1506.	4.1
102	102.8	14.464	34.500		0.41	25.703	0.274	1506.	4.1
103	103.8	14.453	34.500		0.42	25.706	0.276	1506.	4.1

SHIP	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH
OC	159	5	16 NOV 1984	1244	40°30.0'N	69°52.8'W	70

DEPTH m	PRESS dbar	TEMP °C	SALIN psu	OXY ml/l	ATN m^{-1}	SIGT gm/cm^3	DYHT A $10m^2/s^2$	S SPD m/s	N cph
4	3.8	13.964	33.299		0.23	24.881	0.000	1501.	1.0
6	5.7	13.965	33.299		0.23	24.880	0.006	1501.	1.0
8	7.7	13.964	33.300		0.23	24.882	0.012	1501.	1.0
14	14.4	13.957	33.304		0.22	24.886	0.032	1502.	1.0
18	18.6	13.958	33.302		0.22	24.885	0.045	1502.	1.0
22	21.9	13.957	33.303		0.22	24.886	0.055	1502.	1.0
24	24.5	13.955	33.305		0.22	24.887	0.063	1502.	0.9
27	27.0	13.957	33.306		0.21	24.888	0.071	1502.	0.9
30	30.0	13.958	33.307		0.21	24.888	0.080	1502.	1.0
32	32.2	13.958	33.307		0.21	24.889	0.087	1502.	0.9
34	34.3	14.114	33.350		0.21	24.889	0.093	1502.	0.9
36	36.3	14.056	33.335		0.21	24.890	0.099	1502.	1.1
38	38.1	13.993	33.319		0.21	24.890	0.105	1502.	1.3
42	41.9	13.982	33.317		0.20	24.891	0.117	1502.	1.2
44	44.0	13.981	33.318		0.20	24.892	0.123	1502.	1.1
46	46.1	13.979	33.324		0.20	24.897	0.129	1502.	0.7
48	48.0	13.980	33.325		0.21	24.898	0.135	1502.	2.5
50	50.1	14.007	33.326		0.21	24.893	0.142	1502.	4.0
52	51.9	14.058	33.341		0.24	24.894	0.147	1503.	5.0
54	54.2	14.352	33.413		0.25	24.888	0.154	1504.	5.7
56	56.0	14.823	33.635		0.34	24.959	0.160	1505.	6.3
57	57.9	15.152	33.788		0.40	25.005	0.165	1507.	6.7
59	59.9	15.236	33.839		0.43	25.026	0.171	1507.	6.7
61	61.2	15.283	33.866		0.45	25.036	0.175	1507.	6.4
62	62.0	15.291	33.874		0.45	25.041	0.177	1507.	4.8
62	62.9	15.309	33.883		0.47	25.044	0.180	1507.	3.6
64	64.3	15.700	33.996		0.56	25.044	0.184	1509.	3.1
65	65.2	15.620	33.973		0.56	25.044	0.187	1508.	3.1
66	66.1	15.493	33.937		0.56	25.045	0.190	1508.	3.1
66	67.0	15.351	33.906		0.62	25.052	0.192	1508.	3.1
67	67.7	15.343	33.911		0.68	25.058	0.194	1508.	3.1

SHIP	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH
OC	159	6	16 NOV 1984	1350	40°22.9'N	69°54.9'W	80

DEPTH m	PRESS dbar	TEMP °C	SALIN psu	OXY ml/l	ATN m^{-1}	SIGT gm/cm^3	DYHT A $10m^2/s^2$	S SPD m/s	N cph
3	2.6	13.987	33.364		0.17	24.926	0.000	1502.	0.4
4	4.0	13.985	33.362		0.17	24.925	0.004	1502.	0.4
6	6.1	13.986	33.361		0.17	24.925	0.011	1502.	0.4
8	7.9	13.986	33.362		0.17	24.925	0.016	1502.	0.4
10	10.1	13.987	33.362		0.17	24.925	0.023	1502.	0.4
12	12.0	13.987	33.362		0.17	24.925	0.028	1502.	0.6
14	13.9	13.986	33.362		0.17	24.925	0.034	1502.	0.7
16	16.2	13.977	33.362		0.16	24.927	0.041	1502.	0.6
18	18.0	13.961	33.356		0.16	24.925	0.047	1502.	0.6
20	19.9	13.965	33.358		0.16	24.926	0.052	1502.	0.6
22	22.2	13.963	33.358		0.16	24.926	0.059	1502.	0.4
24	23.9	13.964	33.358		0.16	24.926	0.064	1502.	0.3
26	26.0	13.964	33.358		0.16	24.926	0.071	1502.	0.5
28	28.2	13.964	33.358		0.16	24.926	0.077	1502.	0.6
30	29.9	13.973	33.360		0.16	24.926	0.083	1502.	0.7
32	32.1	13.970	33.359		0.16	24.926	0.089	1502.	0.7
34	33.8	13.951	33.356		0.15	24.927	0.094	1502.	0.7
36	36.1	13.930	33.352		0.15	24.929	0.101	1502.	0.7
38	37.8	13.931	33.351		0.15	24.928	0.107	1502.	0.7
40	40.3	13.927	33.349		0.15	24.927	0.114	1502.	0.7
42	42.0	13.919	33.348		0.15	24.928	0.119	1502.	0.6
44	44.0	13.908	33.345		0.14	24.928	0.125	1502.	0.6
46	46.2	13.905	33.345		0.14	24.928	0.132	1502.	0.5
48	48.1	13.905	33.345		0.14	24.929	0.138	1502.	1.9
49	49.8	13.911	33.347		0.14	24.929	0.143	1502.	2.1
52	52.1	13.911	33.347		0.14	24.929	0.150	1502.	5.2
54	54.1	13.969	33.360		0.14	24.927	0.156	1502.	6.9
55	55.9	14.813	33.634		0.13	24.960	0.161	1505.	7.9
58	58.1	15.657	33.858		0.16	24.948	0.168	1508.	8.4
60	60.0	16.183	34.285		0.23	25.157	0.173	1511.	8.4
61	61.9	16.208	34.345		0.27	25.197	0.179	1511.	8.1
64	64.1	16.183	34.353		0.31	25.209	0.185	1511.	7.5
65	65.9	16.181	34.353		0.34	25.210	0.190	1511.	6.4
68	68.2	16.182	34.355		0.36	25.210	0.196	1511.	3.1
69	69.2	16.184	34.354		0.36	25.209	0.199	1511.	1.6
69	69.9	16.184	34.354		0.36	25.210	0.201	1511.	0.5
71	71.1	16.184	34.354		0.36	25.210	0.204	1511.	0.3
71	71.9	16.185	34.355		0.37	25.210	0.206	1511.	0.2
72	73.0	16.184	34.355		0.37	25.210	0.209	1511.	0.3
73	74.1	16.185	34.354		0.38	25.210	0.212	1511.	0.3
74	75.0	16.185	34.355		0.38	25.210	0.215	1511.	0.3
75	76.0	16.183	34.354		0.39	25.210	0.218	1511.	0.3
76	77.1	16.182	34.354		0.40	25.209	0.221	1511.	0.3

SHIP	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH
OC	159	7	16 NOV 1984	1450	40°16.9'N	69°56.5'W	88

DEPTH m	PRESS dbar	TEMP °C	SALIN psu	OXY ml/l	ATN m^{-1}	SIGT gm/cm^3	DYHT A $10m^2/s^2$	S SPD m/s	N cph
2	2.3	14.267	33.527		0.11	24.994	0.000	1503.	-0.4
4	4.1	14.268	33.527		0.10	24.994	0.005	1503.	-0.4
6	5.9	14.269	33.527		0.10	24.993	0.011	1503.	-0.4
8	8.1	14.270	33.527		0.10	24.993	0.017	1503.	-0.4
10	9.8	14.270	33.527		0.11	24.993	0.022	1503.	-0.4
12	11.9	14.270	33.526		0.10	24.993	0.029	1503.	-0.3
14	14.1	14.270	33.526		0.11	24.993	0.035	1503.	-0.2
16	15.8	14.271	33.527		0.11	24.993	0.040	1503.	0.1
18	17.9	14.271	33.526		0.10	24.993	0.046	1503.	0.3
20	20.0	14.271	33.527		0.10	24.993	0.052	1503.	0.4
22	22.0	14.273	33.527		0.10	24.993	0.058	1503.	0.5
24	24.1	14.274	33.528		0.10	24.993	0.064	1503.	0.7
26	26.0	14.279	33.529		0.10	24.993	0.070	1503.	0.7
28	28.1	14.281	33.530		0.10	24.994	0.076	1503.	0.7
30	29.8	14.288	33.533		0.10	24.994	0.082	1503.	0.6
32	32.3	14.292	33.535		0.10	24.995	0.089	1503.	0.5
33	33.7	14.295	33.535		0.10	24.995	0.093	1503.	0.5
36	36.1	14.289	33.533		0.10	24.994	0.100	1503.	0.7
38	37.8	14.286	33.532		0.10	24.994	0.105	1503.	0.9
40	40.2	14.300	33.536		0.10	24.994	0.112	1503.	1.2
42	41.9	14.323	33.543		0.10	24.994	0.117	1503.	1.5
44	44.3	14.348	33.554		0.09	24.997	0.124	1504.	1.8
46	45.9	14.402	33.571		0.09	25.000	0.129	1504.	1.7
48	48.1	14.420	33.581		0.09	25.003	0.136	1504.	1.4
49	49.8	14.456	33.594		0.09	25.005	0.141	1504.	2.6
52	52.1	14.536	33.623		0.08	25.011	0.148	1504.	3.7
53	53.9	14.662	33.646		0.08	25.002	0.153	1505.	4.8
56	56.0	14.917	33.711		0.08	24.997	0.159	1506.	5.7
57	57.9	15.261	33.886		0.09	25.057	0.165	1507.	6.2
60	60.0	15.401	33.963		0.09	25.085	0.171	1508.	6.6
62	62.0	15.622	34.088		0.12	25.133	0.176	1509.	6.7
64	64.1	15.761	34.173		0.12	25.167	0.182	1509.	6.6
65	66.0	15.830	34.203		0.13	25.174	0.188	1509.	6.0
67	68.0	15.815	34.227		0.17	25.196	0.193	1509.	5.8
70	70.1	15.636	34.196		0.25	25.212	0.199	1509.	5.6
71	71.9	15.470	34.175		0.29	25.233	0.204	1508.	5.5
74	74.2	15.356	34.159		0.32	25.246	0.210	1508.	5.7
75	75.2	15.211	34.148		0.32	25.270	0.213	1508.	5.7
75	76.0	15.146	34.144		0.33	25.280	0.215	1507.	5.7
76	77.0	15.119	34.141		0.35	25.284	0.218	1507.	5.3
77	77.9	15.036	34.132		0.45	25.295	0.220	1507.	4.8
78	79.0	14.984	34.129		0.55	25.305	0.223	1507.	4.0
79	80.0	14.978	34.129		0.51	25.306	0.226	1507.	3.4
80	81.0	14.976	34.130		0.51	25.308	0.229	1507.	2.8
81	82.0	14.969	34.130		0.52	25.308	0.231	1507.	2.0
82	83.0	14.966	34.129		0.51	25.309	0.234	1507.	1.2
83	84.0	14.965	34.129		0.51	25.309	0.237	1507.	1.2
84	85.0	14.965	34.129		0.51	25.309	0.239	1507.	1.2
85	86.0	14.966	34.129		0.58	25.308	0.242	1507.	1.2
86	86.7	14.966	34.129		0.61	25.308	0.244	1507.	1.2

SHIP	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH
OC	159	8	16 NOV 1984	1600	40°10.8'N	69°58.1'W	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
10	10.0	14.806	33.730		0.10	25.035	0.000	1505.	-0.2
12	11.8	14.810	33.730		0.10	25.035	0.005	1505.	-0.2
14	14.1	14.815	33.730		0.10	25.034	0.012	1505.	-0.2
16	16.2	14.819	33.732		0.10	25.034	0.018	1505.	-0.2
18	18.2	14.820	33.734		0.11	25.036	0.024	1505.	-0.2
20	19.7	14.815	33.731		0.10	25.035	0.028	1505.	0.8
22	21.7	14.817	33.732		0.10	25.035	0.034	1505.	0.7
24	23.9	14.811	33.730		0.10	25.034	0.041	1505.	0.4
26	26.0	14.823	33.732		0.10	25.034	0.047	1505.	0.6
28	28.3	14.823	33.739		0.10	25.039	0.053	1505.	0.8
30	29.9	14.821	33.733		0.10	25.035	0.058	1505.	1.0
32	32.0	14.831	33.734		0.10	25.033	0.064	1505.	1.1
34	33.9	14.842	33.744		0.10	25.038	0.070	1505.	1.3
36	35.9	14.853	33.746		0.10	25.038	0.076	1505.	1.6
38	38.3	14.869	33.752		0.10	25.039	0.083	1505.	1.9
40	40.0	14.893	33.760		0.10	25.040	0.088	1506.	2.9
42	42.0	14.975	33.789		0.10	25.044	0.093	1506.	3.8
44	44.0	15.061	33.824		0.10	25.053	0.099	1506.	4.7
46	46.1	15.231	33.872		0.10	25.053	0.105	1507.	5.3
48	48.1	15.416	33.977		0.09	25.093	0.111	1508.	5.9
50	50.0	15.527	34.053		0.09	25.126	0.116	1508.	6.3
52	51.9	15.606	34.116		0.10	25.158	0.122	1508.	6.5
54	54.0	15.666	34.148		0.10	25.169	0.128	1509.	6.3
56	56.0	15.771	34.232		0.10	25.210	0.133	1509.	5.8
58	58.2	15.813	34.270		0.10	25.229	0.139	1509.	5.1
59	59.7	15.960	34.338		0.10	25.248	0.143	1510.	4.5
62	62.2	15.996	34.354		0.10	25.252	0.150	1510.	3.8
64	64.0	16.068	34.376		0.09	25.253	0.155	1510.	2.8
65	65.9	16.185	34.403		0.09	25.247	0.160	1511.	2.2
68	68.1	16.331	34.470		0.09	25.265	0.166	1511.	3.0
69	70.0	16.925	34.636		0.07	25.253	0.172	1513.	3.6
71	72.0	17.350	34.776		0.06	25.260	0.177	1515.	4.1
73	74.0	18.055	35.008		0.05	25.266	0.182	1517.	4.6
75	76.0	18.441	35.210		0.05	25.324	0.188	1519.	4.7
77	78.1	18.528	35.232		0.05	25.319	0.193	1519.	5.0
79	79.9	18.789	35.329		0.05	25.328	0.198	1520.	5.4
82	82.2	18.891	35.399		0.05	25.355	0.204	1520.	5.8
83	83.7	18.892	35.401		0.05	25.357	0.208	1520.	6.1
85	86.0	18.784	35.391		0.06	25.377	0.214	1520.	6.8
87	88.0	18.229	35.272		0.10	25.424	0.220	1518.	7.3
89	90.0	17.225	35.010		0.13	25.469	0.225	1515.	7.8
91	91.2	17.017	34.985		0.15	25.499	0.228	1514.	8.3
91	92.0	16.988	35.000		0.16	25.518	0.230	1514.	8.9
92	93.0	16.669	34.931		0.20	25.540	0.232	1513.	8.9
93	94.0	16.401	34.881		0.27	25.565	0.235	1512.	8.6
94	95.0	15.851	34.748		0.34	25.589	0.237	1511.	8.2
95	96.0	15.492	34.704		0.38	25.636	0.239	1509.	8.2
96	97.0	15.405	34.678		0.40	25.635	0.242	1509.	8.2
97	97.9	15.363	34.667		0.41	25.636	0.244	1509.	8.2
98	98.7	15.275	34.650		0.43	25.642	0.246	1509.	8.2

SHIP	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH
OC	159	9	16 NOV 1984	1716	40°04.6'N	70°00.2'W	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
2	2.0	14.641	33.616		0.14	24.983	0.000	1504.	-0.6
4	4.0	14.642	33.615		0.14	24.983	0.006	1504.	-0.6
6	5.8	14.641	33.616		0.13	24.983	0.011	1504.	-0.6
8	7.9	14.644	33.615		0.11	24.981	0.018	1504.	-0.6
10	10.1	14.643	33.614		0.11	24.981	0.024	1504.	-0.6
12	11.7	14.641	33.614		0.11	24.981	0.029	1504.	-0.5
14	14.3	14.642	33.614		0.11	24.981	0.037	1504.	-0.5
16	15.9	14.641	33.613		0.11	24.981	0.041	1504.	-0.3
18	17.9	14.643	33.614		0.11	24.981	0.047	1504.	-0.3
20	20.0	14.643	33.614		0.11	24.981	0.053	1504.	0.1
22	22.1	14.643	33.613		0.11	24.981	0.060	1504.	0.4
24	23.8	14.643	33.613		0.11	24.980	0.065	1504.	0.5
26	26.0	14.643	33.613		0.11	24.981	0.071	1504.	0.5
28	28.2	14.644	33.614		0.11	24.981	0.078	1504.	0.4
30	29.8	14.643	33.615		0.11	24.982	0.083	1504.	1.0
32	32.0	14.642	33.614		0.11	24.981	0.089	1504.	1.5
34	33.9	14.651	33.617		0.11	24.982	0.095	1505.	2.0
36	36.0	14.670	33.620		0.11	24.980	0.101	1505.	3.5
38	38.3	14.747	33.653		0.10	24.989	0.108	1505.	5.2
40	40.0	14.808	33.678		0.09	24.995	0.113	1505.	6.2
42	42.1	15.096	33.771		0.09	25.004	0.119	1506.	7.3
44	44.1	15.793	34.058		0.08	25.071	0.125	1509.	8.3
45	45.8	16.241	34.304		0.08	25.158	0.130	1510.	8.8
48	48.0	16.293	34.338		0.08	25.172	0.136	1511.	9.0
50	50.2	16.202	34.406		0.07	25.246	0.142	1511.	8.9
52	51.9	15.925	34.411		0.06	25.312	0.147	1510.	8.4
54	54.1	15.803	34.406		0.06	25.336	0.152	1509.	8.3
56	56.1	15.616	34.399		0.06	25.373	0.158	1509.	8.9
57	57.7	15.336	34.365		0.06	25.409	0.162	1508.	8.9
60	60.0	15.208	34.361		0.06	25.434	0.168	1508.	8.9
62	62.0	14.836	34.371		0.06	25.524	0.173	1506.	9.2
64	64.0	14.336	34.364		0.06	25.626	0.178	1505.	9.2
65	65.9	14.240	34.359		0.06	25.642	0.182	1505.	9.1
68	68.1	14.178	34.392		0.06	25.681	0.187	1504.	9.0
69	69.8	14.119	34.440		0.06	25.730	0.191	1504.	8.5
71	72.1	14.125	34.505		0.06	25.779	0.196	1504.	8.1
74	74.1	14.163	34.583		0.08	25.831	0.201	1505.	8.4
75	76.1	14.241	34.662		0.10	25.876	0.205	1505.	8.5
77	77.9	14.354	34.730		0.13	25.904	0.209	1506.	8.7
80	80.2	14.498	34.817		0.14	25.941	0.214	1506.	8.8
81	82.0	14.700	34.976		0.16	26.020	0.217	1507.	8.9
83	84.1	14.921	35.098		0.12	26.065	0.222	1508.	8.9
85	85.9	15.504	35.349		0.07	26.130	0.225	1510.	8.7
87	88.0	15.804	35.489		0.05	26.169	0.229	1511.	8.1
89	90.1	15.846	35.571		0.05	26.224	0.233	1511.	7.2
91	91.9	15.859	35.614		0.05	26.254	0.236	1512.	6.4
93	94.1	15.888	35.635		0.05	26.263	0.240	1512.	5.4
95	96.1	15.918	35.656		0.05	26.272	0.243	1512.	4.5
97	97.9	15.926	35.663		0.05	26.276	0.247	1512.	3.8
99	100.2	15.942	35.681		0.05	26.286	0.251	1512.	4.1

SHIP	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH
OC	159	9	16 NOV 1984	1716	40°04.6'N	70°00.2'W	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
101	101.9	15.965	35.697		0.05	26.293	0.254	1512.	5.0
103	104.0	16.001	35.708		0.05	26.293	0.257	1512.	5.7
105	106.0	16.023	35.736		0.04	26.310	0.261	1512.	6.3
107	107.8	15.928	35.776		0.04	26.362	0.264	1512.	6.7
109	110.0	15.881	35.830		0.04	26.415	0.268	1512.	6.9
111	112.2	15.836	35.843		0.04	26.435	0.271	1512.	6.9
113	114.0	15.746	35.843		0.04	26.456	0.274	1512.	6.5
115	116.2	15.622	35.850		0.04	26.489	0.278	1512.	6.0
117	117.9	15.459	35.825		0.05	26.507	0.280	1511.	5.4
119	119.9	15.416	35.825		0.06	26.516	0.283	1511.	4.9
121	122.0	15.357	35.833		0.09	26.536	0.287	1511.	4.4
123	124.1	15.271	35.829		0.14	26.552	0.290	1511.	3.7
125	125.8	15.244	35.820		0.14	26.551	0.292	1510.	3.3
127	128.0	15.249	35.822		0.14	26.551	0.296	1511.	2.8
129	130.0	15.254	35.828		0.14	26.555	0.299	1511.	2.1
130	131.2	15.255	35.830		0.16	26.556	0.300	1511.	1.4
131	132.0	15.254	35.830		0.17	26.556	0.302	1511.	1.4
132	133.0	15.253	35.830		0.18	26.556	0.303	1511.	1.1
133	134.0	15.251	35.829		0.19	26.556	0.305	1511.	0.4
134	135.1	15.250	35.828		0.19	26.556	0.306	1511.	-0.2
135	135.9	15.250	35.828		0.19	26.556	0.308	1511.	-0.2
136	136.9	15.250	35.828		0.20	26.556	0.309	1511.	0.1
137	137.9	15.250	35.828		0.20	26.556	0.311	1511.	0.4
138	139.0	15.251	35.828		0.20	26.556	0.312	1511.	0.4
139	140.1	15.251	35.829		0.20	26.556	0.314	1511.	0.4
140	141.0	15.251	35.829		0.19	26.556	0.315	1511.	0.4
140	141.5	15.252	35.829		0.18	26.556	0.316	1511.	0.4

SHIP	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH
OC	159	10	16 NOV 1984	2025	39°57.7'N	70°00.9'W	198

DEPTH m	PRESS dbar	TEMP °C	SALIN psu	OXY ml/l	ATN m^{-1}	SIGT gm/cm^3	DYHT A $10m^2/s^2$	S SPD m/s	N cph
1	0.9	15.159	33.980		0.18	25.151	0.000	1506.	0.7
2	1.8	15.163	33.980		0.16	25.150	0.003	1506.	0.7
4	4.0	15.170	33.980		0.16	25.149	0.009	1506.	0.7
6	5.7	15.170	33.979		0.15	25.149	0.014	1506.	0.7
8	8.0	15.175	33.979		0.15	25.147	0.020	1506.	0.7
10	10.4	15.174	33.981		0.15	25.149	0.027	1506.	1.3
12	12.3	15.175	33.980		0.15	25.148	0.032	1506.	1.7
14	14.0	15.199	33.988		0.15	25.149	0.037	1506.	2.0
16	16.0	15.231	34.008		0.15	25.157	0.042	1507.	2.0
18	18.0	15.253	34.018		0.15	25.160	0.048	1507.	2.1
20	19.8	15.264	34.025		0.15	25.163	0.053	1507.	2.0
22	22.2	15.265	34.027		0.15	25.165	0.060	1507.	1.9
24	24.3	15.268	34.027		0.15	25.164	0.066	1507.	1.9
26	26.3	15.271	34.034		0.15	25.168	0.071	1507.	2.4
28	28.2	15.282	34.034		0.15	25.166	0.077	1507.	2.7
30	29.9	15.297	34.046		0.15	25.172	0.081	1507.	3.2
32	32.1	15.334	34.068		0.15	25.181	0.087	1507.	3.9
34	34.0	15.352	34.093		0.15	25.196	0.093	1507.	5.0
36	35.9	15.357	34.100		0.15	25.201	0.098	1507.	6.7
38	37.9	15.345	34.116		0.15	25.216	0.104	1507.	8.0
40	40.2	15.301	34.146		0.14	25.248	0.110	1507.	8.8
42	42.1	15.147	34.185		0.11	25.312	0.115	1507.	9.4
44	43.8	14.716	34.236		0.08	25.445	0.119	1506.	9.7
46	46.2	14.273	34.198		0.07	25.511	0.125	1504.	9.7
48	48.3	14.273	34.237		0.07	25.541	0.131	1504.	9.3
49	49.8	14.242	34.289		0.07	25.587	0.134	1504.	8.5
52	52.1	14.173	34.329		0.07	25.633	0.140	1504.	7.6
54	54.0	14.111	34.356		0.07	25.667	0.144	1504.	7.5
56	56.0	14.087	34.373		0.07	25.685	0.149	1504.	7.2
57	57.9	14.071	34.394		0.07	25.704	0.153	1504.	6.7
60	60.0	14.100	34.465		0.07	25.753	0.158	1504.	6.6
61	61.9	14.111	34.531		0.08	25.802	0.162	1504.	6.8
64	64.2	14.115	34.537		0.08	25.806	0.167	1504.	6.8
66	66.1	14.271	34.576		0.08	25.803	0.171	1505.	6.9
68	68.1	14.448	34.694		0.08	25.856	0.176	1506.	6.8
69	69.9	14.620	34.819		0.07	25.916	0.180	1506.	6.6
72	72.3	14.832	34.882		0.07	25.919	0.184	1507.	6.6
73	74.0	15.167	35.040		0.06	25.967	0.188	1508.	6.4
75	76.0	15.216	35.086		0.06	25.991	0.192	1509.	5.7
77	78.0	15.279	35.094		0.06	25.983	0.196	1509.	4.6
79	79.8	15.399	35.158		0.06	26.006	0.200	1509.	4.2
81	81.9	15.410	35.179		0.06	26.020	0.204	1510.	3.8
83	84.0	15.357	35.182		0.06	26.034	0.208	1509.	4.3
86	86.4	15.356	35.141		0.06	26.002	0.213	1509.	4.7
87	88.1	15.787	35.303		0.06	26.030	0.217	1511.	4.9
89	89.9	16.023	35.412		0.05	26.061	0.220	1512.	5.1
91	92.0	16.094	35.491		0.05	26.104	0.224	1512.	5.1
93	94.0	16.054	35.482		0.05	26.107	0.228	1512.	5.0
95	96.0	15.968	35.482		0.06	26.127	0.232	1512.	4.4
97	98.1	15.802	35.442		0.06	26.134	0.236	1511.	5.1

SHIP	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH
OC	159	10	16 NOV 1984	2025	39°57.7'N	70°00.9'W	198

DEPTH m	PRESS dbar	TEMP °C	SALIN psu	OXY ml/l	ATN m^{-1}	SIGT gm/cm^3	DYHT A $10m^2/s^2$	S SPD m/s	N cph
99	100.0	15.739	35.405		0.06	26.120	0.239	1511.	6.0
101	102.1	15.817	35.436		0.06	26.126	0.243	1511.	6.8
103	104.1	16.206	35.587		0.05	26.153	0.247	1513.	7.3
105	106.1	16.207	35.739		0.04	26.269	0.251	1513.	7.6
107	108.1	16.015	35.746		0.04	26.319	0.255	1512.	7.6
109	110.0	15.975	35.751		0.04	26.332	0.258	1512.	7.1
111	111.8	15.895	35.746		0.04	26.347	0.261	1512.	6.4
113	113.9	15.812	35.740		0.05	26.361	0.264	1512.	5.2
115	116.1	15.755	35.741		0.05	26.375	0.268	1512.	5.0
117	118.1	15.695	35.737		0.05	26.385	0.271	1512.	5.0
119	120.1	15.594	35.741		0.05	26.412	0.275	1511.	5.0
121	121.9	15.492	35.726		0.05	26.423	0.278	1511.	5.0
123	123.8	15.385	35.721		0.05	26.443	0.281	1511.	5.2
125	126.3	15.347	35.727		0.05	26.456	0.285	1511.	5.1
127	128.0	15.282	35.723		0.05	26.468	0.288	1511.	4.8
129	130.1	15.248	35.730		0.06	26.481	0.291	1510.	4.5
131	132.0	15.107	35.736		0.06	26.517	0.294	1510.	4.0
133	133.9	14.965	35.697		0.06	26.518	0.297	1510.	3.5
135	136.3	14.955	35.695		0.06	26.518	0.300	1510.	2.9
137	137.9	14.970	35.696		0.06	26.516	0.303	1510.	2.3
139	139.8	14.977	35.696		0.06	26.515	0.306	1510.	1.7
141	142.1	14.973	35.699		0.06	26.518	0.309	1510.	2.2
143	143.7	14.969	35.697		0.06	26.517	0.312	1510.	2.7
145	146.1	14.942	35.703		0.06	26.528	0.316	1510.	2.8
147	147.8	14.884	35.697		0.06	26.536	0.318	1510.	2.7
149	150.3	14.840	35.692		0.06	26.542	0.322	1509.	2.3
151	151.9	14.808	35.695		0.06	26.551	0.325	1509.	1.6
153	154.1	14.818	35.690		0.06	26.545	0.328	1509.	-0.7
154	155.7	14.866	35.696		0.06	26.539	0.330	1510.	-1.0
157	158.1	14.880	35.695		0.06	26.535	0.334	1510.	-0.7
159	160.0	14.909	35.697		0.06	26.531	0.337	1510.	2.1
161	161.9	14.913	35.700		0.06	26.532	0.340	1510.	3.5
163	163.9	14.857	35.701		0.06	26.545	0.343	1510.	4.8
165	166.0	14.829	35.700		0.06	26.551	0.346	1510.	5.7
167	167.9	14.694	35.706		0.06	26.585	0.349	1509.	6.2
169	170.1	14.582	35.713		0.07	26.614	0.352	1509.	6.5
171	171.9	14.363	35.722		0.07	26.668	0.355	1508.	6.8
172	173.8	14.354	35.737		0.07	26.682	0.357	1508.	6.9
175	176.1	14.320	35.757		0.09	26.705	0.361	1508.	6.8
177	178.1	14.242	35.758		0.09	26.723	0.363	1508.	6.6
179	180.0	13.968	35.746		0.08	26.771	0.366	1507.	6.0
181	182.0	13.560	35.671		0.08	26.799	0.369	1506.	5.6
182	183.9	13.435	35.670		0.08	26.824	0.371	1505.	5.1
184	185.7	13.390	35.656		0.08	26.823	0.373	1505.	4.3
187	188.3	13.385	35.656		0.08	26.823	0.377	1505.	3.2
188	190.0	13.377	35.657		0.08	26.826	0.379	1505.	2.3
190	191.3	13.379	35.656		0.08	26.824	0.380	1505.	1.3
190	192.0	13.385	35.656		0.07	26.823	0.381	1505.	1.5
191	193.0	13.377	35.660		0.08	26.828	0.382	1505.	1.5
192	194.0	13.365	35.659		0.08	26.830	0.384	1505.	1.5

SHIP	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH
OC	159	10	16 NOV 1984	2025	39°57.7'N	70°00.9'W	198

DEPTH m	PRESS dbar	TEMP °C	SALIN psu	OXY ml/l	ATN m^{-1}	SIGT gm/cm^3	DYHT A $10m^2/s^2$	S SPD m/s	N cph
194	195.1	13.359	35.655		0.08	26.828	0.385	1505.	1.5
194	195.5	13.357	35.655		0.08	26.828	0.386	1505.	1.5

SHIP	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH
OC	159	11	16 NOV 1984	2126	39°53.5'N	70°04.2'W	578

DEPTH m	PRESS dbar	TEMP °C	SALIN psu	OXY ml/l	ATN m^{-1}	SIGT gm/cm^3	DYHT A $10m^2/s^2$	S SPD m/s	N cph
3	2.6	15.525	34.140		0.14	25.194	0.000	1507.	-0.5
4	4.1	15.536	34.141		0.14	25.193	0.004	1507.	-0.5
6	5.9	15.542	34.143		0.14	25.192	0.009	1507.	-0.5
8	8.0	15.544	34.142		0.14	25.191	0.015	1508.	-0.5
10	10.2	15.548	34.143		0.14	25.191	0.021	1508.	-0.5
12	11.8	15.548	34.143		0.14	25.191	0.026	1508.	0.2
14	14.1	15.549	34.143		0.14	25.191	0.032	1508.	0.4
16	15.7	15.550	34.143		0.14	25.191	0.036	1508.	0.7
18	18.0	15.552	34.145		0.14	25.192	0.043	1508.	0.8
20	20.0	15.550	34.145		0.14	25.192	0.048	1508.	0.8
22	22.1	15.551	34.145		0.14	25.192	0.054	1508.	0.9
24	24.0	15.555	34.149		0.14	25.194	0.059	1508.	0.8
26	25.9	15.556	34.148		0.14	25.194	0.065	1508.	1.1
28	28.1	15.553	34.147		0.14	25.193	0.071	1508.	1.2
30	30.2	15.556	34.149		0.14	25.194	0.077	1508.	1.3
32	31.8	15.558	34.150		0.14	25.194	0.081	1508.	1.3
34	34.1	15.562	34.158		0.14	25.200	0.087	1508.	1.3
36	35.9	15.564	34.157		0.14	25.198	0.092	1508.	1.7
37	37.8	15.565	34.159		0.14	25.200	0.097	1508.	2.2
40	40.1	15.568	34.160		0.14	25.200	0.104	1508.	2.8
41	41.6	15.570	34.160		0.14	25.200	0.108	1508.	3.4
44	44.3	15.566	34.176		0.13	25.213	0.115	1508.	4.8
46	45.9	15.544	34.188		0.13	25.226	0.120	1508.	5.7
48	48.0	15.467	34.185		0.12	25.242	0.126	1508.	6.6
49	49.8	15.399	34.185		0.10	25.257	0.131	1508.	7.1
52	52.0	15.047	34.195		0.08	25.342	0.136	1507.	7.6
54	54.0	14.979	34.208		0.08	25.366	0.142	1507.	7.8
56	56.1	14.857	34.238		0.08	25.417	0.147	1506.	7.9
57	57.9	14.874	34.263		0.08	25.432	0.152	1506.	7.7
60	60.3	14.941	34.364		0.08	25.495	0.158	1507.	7.1
61	61.9	14.718	34.323		0.09	25.512	0.162	1506.	6.9
64	64.1	14.416	34.294		0.10	25.555	0.167	1505.	6.4
65	66.0	14.228	34.255		0.11	25.564	0.172	1504.	6.3
68	68.1	14.101	34.250		0.11	25.587	0.177	1504.	6.6
70	70.1	14.113	34.279		0.11	25.607	0.182	1504.	7.3
71	71.9	14.176	34.309		0.10	25.617	0.186	1504.	8.4
73	73.9	14.505	34.453		0.09	25.658	0.191	1506.	9.2
75	75.9	14.970	34.707		0.09	25.753	0.195	1507.	9.7
77	77.9	16.606	35.273		0.05	25.818	0.200	1513.	9.7
79	80.1	18.439	36.014		0.03	25.941	0.205	1520.	10.1
81	81.8	18.875	36.193		0.02	25.966	0.208	1521.	10.2
84	84.3	18.441	36.117		0.02	26.019	0.213	1520.	9.7
85	85.8	17.829	35.888		0.02	25.996	0.216	1518.	9.2
87	88.2	17.203	35.931		0.02	26.181	0.221	1516.	8.4
89	90.0	17.258	36.008		0.02	26.227	0.224	1516.	7.9
91	92.2	17.484	36.073		0.02	26.222	0.228	1517.	7.0
93	93.8	17.538	36.098		0.02	26.228	0.231	1517.	6.5
95	96.1	17.450	36.099		0.02	26.251	0.235	1517.	5.5
97	97.8	17.385	36.085		0.02	26.256	0.238	1517.	6.0
99	99.9	17.145	35.994		0.02	26.244	0.242	1516.	6.5

SHIP	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH
OC	159	11	16 NOV 1984	2126	39°53.5'N	70°04.2'W	578

DEPTH m	PRESS dbar	TEMP °C	SALIN psu	OXY ml/l	ATN m^{-1}	SIGT gm/cm^3	DYHT A $10m^2/s^2$	S SPD m/s	N cph
101	102.1	16.579	35.928		0.02	26.328	0.246	1514.	6.7
103	104.0	15.868	35.772		0.02	26.373	0.249	1512.	6.7
105	106.0	15.602	35.730		0.02	26.401	0.252	1511.	6.5
107	108.0	15.435	35.686		0.02	26.405	0.256	1511.	6.0
109	110.0	15.282	35.670		0.02	26.427	0.259	1510.	4.9
111	112.2	15.110	35.637		0.02	26.440	0.262	1510.	4.4
113	114.1	15.032	35.620		0.02	26.444	0.265	1509.	4.6
115	115.8	14.970	35.612		0.02	26.451	0.268	1509.	5.4
117	118.2	14.876	35.602		0.02	26.464	0.272	1509.	5.8
119	119.7	14.829	35.603		0.02	26.475	0.274	1509.	6.0
121	122.1	14.843	35.672		0.02	26.525	0.278	1509.	6.1
123	123.8	14.975	35.777		0.02	26.578	0.281	1510.	5.9
125	126.0	15.094	35.823		0.01	26.586	0.284	1510.	5.7
127	128.1	15.106	35.834		0.01	26.592	0.287	1510.	5.1
129	130.2	15.149	35.862		0.01	26.604	0.290	1510.	4.3
131	131.7	15.194	35.877		0.01	26.606	0.292	1510.	3.5
133	134.0	15.071	35.870		0.01	26.628	0.296	1510.	3.4
135	136.0	14.961	35.839		0.01	26.628	0.299	1510.	3.3
137	138.2	14.913	35.835		0.01	26.636	0.302	1510.	3.2
139	140.2	14.908	35.834		0.01	26.636	0.305	1510.	3.3
141	141.9	14.885	35.831		0.01	26.639	0.307	1510.	3.2
143	143.8	14.866	35.840		0.01	26.651	0.310	1510.	3.5
145	146.1	14.835	35.844		0.01	26.660	0.313	1510.	3.7
147	147.8	14.844	35.860		0.01	26.670	0.315	1510.	3.8
149	150.1	14.848	35.869		0.01	26.676	0.319	1510.	3.7
151	151.8	14.777	35.870		0.01	26.693	0.321	1509.	3.6
153	154.0	14.753	35.869		0.01	26.698	0.324	1509.	3.5
155	155.8	14.735	35.868		0.01	26.701	0.327	1509.	3.3
157	158.1	14.697	35.865		0.01	26.707	0.330	1509.	3.2
158	159.7	14.644	35.859		0.01	26.713	0.332	1509.	3.0
161	162.1	14.586	35.855		0.01	26.723	0.335	1509.	3.1
163	164.0	14.570	35.854		0.01	26.726	0.338	1509.	3.1
165	166.0	14.541	35.852		0.01	26.731	0.340	1509.	3.3
167	167.9	14.510	35.849		0.01	26.734	0.343	1509.	3.3
169	170.0	14.421	35.839		0.01	26.747	0.346	1509.	3.3
171	171.9	14.380	35.828		0.01	26.747	0.348	1509.	3.2
173	174.0	14.282	35.826		0.01	26.766	0.351	1508.	3.1
175	176.0	14.269	35.826		0.01	26.769	0.354	1508.	3.0
177	178.1	14.264	35.826		0.01	26.770	0.357	1508.	2.8
178	179.8	14.255	35.822		0.01	26.769	0.359	1508.	2.4
180	181.9	14.208	35.819		0.01	26.777	0.362	1508.	2.4
183	184.2	14.162	35.814		0.01	26.783	0.365	1508.	2.8
184	186.0	14.129	35.808		0.01	26.785	0.367	1508.	3.2
187	188.2	14.068	35.782		0.01	26.778	0.370	1508.	3.3
188	190.0	13.937	35.774		0.01	26.799	0.372	1507.	3.5
191	192.1	13.843	35.767		0.01	26.814	0.375	1507.	3.6
192	193.9	13.812	35.764		0.01	26.818	0.377	1507.	3.7
194	195.9	13.780	35.760		0.01	26.822	0.380	1507.	3.7
196	198.0	13.687	35.750		0.01	26.833	0.382	1507.	3.7
198	200.0	13.644	35.746		0.01	26.839	0.385	1506.	3.8

SHIP	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH
OC	159	11	16 NOV 1984	2126	39°53.5'N	70°04.2'W	578

DEPTH m	PRESS dbar	TEMP °C	SALIN psu	OXY ml/l	ATN m^{-1}	SIGT gm/cm^3	DYHT A $10m^2/s^2$	S SPD m/s	N cph
200	202.1	13.581	35.736		0.01	26.845	0.387	1506.	3.9
202	203.7	13.476	35.718		0.01	26.853	0.390	1506.	4.0
204	206.0	13.330	35.709		0.01	26.875	0.392	1506.	3.9
206	208.0	13.261	35.698		0.01	26.881	0.395	1505.	3.8
208	210.1	13.191	35.686		0.01	26.886	0.397	1505.	3.6
210	212.0	13.093	35.675		0.01	26.898	0.400	1505.	3.2
213	214.3	13.058	35.671		0.01	26.902	0.402	1505.	3.0
214	215.6	13.043	35.667		0.01	26.902	0.404	1505.	3.0
216	218.0	12.996	35.661		0.01	26.906	0.407	1505.	3.0
218	220.0	12.940	35.651		0.01	26.910	0.409	1504.	3.0
220	222.0	12.814	35.634		0.01	26.922	0.412	1504.	3.2
222	224.1	12.744	35.622		0.01	26.927	0.414	1504.	3.3
224	226.1	12.692	35.618		0.01	26.934	0.416	1504.	3.5
226	227.7	12.650	35.613		0.01	26.939	0.418	1504.	3.7
228	230.0	12.579	35.602		0.01	26.945	0.421	1503.	3.7
230	231.9	12.474	35.585		0.01	26.952	0.423	1503.	3.8
232	233.9	12.284	35.564		0.01	26.973	0.425	1502.	3.9
234	236.3	12.157	35.543		0.01	26.982	0.428	1502.	3.8
236	237.9	12.124	35.533		0.01	26.980	0.430	1502.	3.6
238	240.2	12.014	35.522		0.01	26.992	0.433	1501.	3.3
240	241.8	11.920	35.513		0.01	27.004	0.434	1501.	2.8
242	244.0	11.892	35.509		0.01	27.006	0.437	1501.	2.9
244	246.3	11.870	35.504		0.01	27.006	0.439	1501.	3.0
246	248.1	11.835	35.495		0.01	27.006	0.441	1501.	3.0
248	249.8	11.748	35.477		0.01	27.008	0.443	1501.	3.1
250	251.9	11.629	35.470		0.01	27.026	0.445	1500.	3.3
252	254.0	11.535	35.456		0.01	27.032	0.448	1500.	3.8
254	255.9	11.462	35.450		0.01	27.042	0.450	1500.	4.0
256	258.1	11.432	35.446		0.01	27.044	0.452	1500.	4.0
258	260.0	11.218	35.403		0.01	27.050	0.454	1499.	3.7
260	261.9	11.067	35.402		0.01	27.077	0.456	1498.	3.5
262	264.1	11.000	35.394		0.01	27.083	0.458	1498.	3.3
264	266.0	10.994	35.393		0.01	27.083	0.460	1498.	3.1
266	268.0	10.983	35.392		0.01	27.084	0.463	1498.	2.6
268	270.1	10.937	35.383		0.01	27.086	0.465	1498.	2.6
269	271.7	10.904	35.382		0.01	27.091	0.466	1498.	2.9
272	274.3	10.858	35.377		0.01	27.096	0.469	1498.	3.4
274	275.9	10.774	35.355		0.01	27.094	0.471	1498.	3.7
276	278.2	10.580	35.347		0.01	27.122	0.473	1497.	3.8
278	280.0	10.507	35.327		0.01	27.120	0.475	1497.	3.7
279	281.8	10.390	35.327		0.01	27.140	0.476	1496.	3.7
282	284.2	10.326	35.316		0.01	27.143	0.479	1496.	3.6
283	285.5	10.310	35.314		0.01	27.144	0.480	1496.	3.3
286	288.1	10.237	35.304		0.01	27.149	0.483	1496.	3.2
287	289.8	10.157	35.300		0.01	27.160	0.484	1496.	2.9
290	292.0	10.066	35.288		0.01	27.166	0.486	1495.	2.8
292	294.0	10.006	35.282		0.01	27.172	0.488	1495.	2.5
294	296.0	9.975	35.278		0.01	27.174	0.490	1495.	2.6
296	298.2	9.962	35.277		0.01	27.176	0.492	1495.	2.8
297	299.9	9.950	35.276		0.01	27.176	0.494	1495.	3.3

SHIP	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH
OC	159	11	16 NOV 1984	2126	39°53.5'N	70°04.2'W	578

DEPTH m	PRESS dbar	TEMP °C	SALIN psu	OXY ml/l	ATN m^{-1}	SIGT gm/cm^3	DYHT A $10m^2/s^2$	S SPD m/s	N cph
300	302.1	9.903	35.258		0.02	27.171	0.496	1495.	3.5
301	303.8	9.705	35.245		0.02	27.194	0.498	1494.	3.8
303	306.0	9.535	35.224		0.02	27.206	0.500	1493.	4.0
306	308.1	9.424	35.223		0.02	27.224	0.501	1493.	3.9
307	310.0	9.357	35.210		0.02	27.225	0.503	1493.	3.8
309	311.7	9.302	35.209		0.02	27.233	0.505	1493.	3.2
312	314.2	9.236	35.204		0.01	27.240	0.507	1492.	2.7
313	316.0	9.217	35.200		0.01	27.240	0.508	1492.	2.3
315	317.9	9.179	35.198		0.01	27.245	0.510	1492.	2.1
317	319.9	9.168	35.195		0.01	27.244	0.512	1492.	1.7
319	322.0	9.152	35.193		0.01	27.245	0.514	1492.	1.5
321	324.0	9.139	35.193		0.01	27.247	0.516	1492.	1.5
323	326.1	9.132	35.192		0.01	27.248	0.517	1492.	1.6
325	328.0	9.119	35.191		0.01	27.248	0.519	1492.	2.1
327	330.0	9.102	35.189		0.01	27.250	0.521	1492.	2.4
329	331.7	9.080	35.187		0.01	27.252	0.522	1492.	2.5
331	334.0	8.984	35.174		0.01	27.258	0.524	1492.	2.6
333	336.0	8.904	35.174		0.01	27.271	0.526	1492.	2.9
335	338.2	8.884	35.170		0.01	27.270	0.528	1492.	2.9
337	339.7	8.853	35.167		0.01	27.273	0.529	1491.	3.0
339	342.0	8.797	35.158		0.01	27.275	0.531	1491.	3.0
341	344.2	8.722	35.160		0.02	27.289	0.533	1491.	3.2
343	345.9	8.688	35.154		0.02	27.289	0.535	1491.	3.5
345	348.0	8.647	35.158		0.02	27.298	0.536	1491.	3.6
347	349.7	8.585	35.152		0.02	27.304	0.538	1491.	3.6
349	352.3	8.450	35.146		0.02	27.320	0.540	1490.	3.5
351	354.1	8.403	35.149		0.02	27.330	0.541	1490.	3.5
353	356.4	8.349	35.141		0.02	27.332	0.543	1490.	3.5
355	357.9	8.323	35.139		0.02	27.334	0.544	1490.	3.4
357	360.2	8.245	35.134		0.02	27.342	0.546	1489.	3.2
359	362.0	8.166	35.128		0.03	27.349	0.547	1489.	3.1
361	364.1	8.107	35.128		0.03	27.359	0.549	1489.	3.0
363	366.0	8.042	35.123		0.03	27.365	0.551	1489.	2.7
365	368.0	8.026	35.123		0.03	27.367	0.552	1489.	2.6
367	370.0	8.021	35.123		0.03	27.368	0.554	1489.	2.7
369	372.0	8.018	35.122		0.03	27.368	0.555	1489.	2.8
371	374.1	7.986	35.117		0.03	27.368	0.557	1489.	2.9
373	375.9	7.919	35.120		0.03	27.381	0.558	1488.	3.0
375	378.0	7.786	35.113		0.03	27.395	0.560	1488.	2.9
377	379.9	7.765	35.112		0.03	27.398	0.561	1488.	2.7
379	382.1	7.751	35.112		0.03	27.399	0.563	1488.	2.4
381	383.8	7.747	35.112		0.03	27.400	0.564	1488.	1.7
383	386.2	7.743	35.111		0.03	27.400	0.566	1488.	1.1
385	388.0	7.740	35.111		0.03	27.400	0.567	1488.	0.9
387	390.1	7.736	35.111		0.03	27.401	0.569	1488.	0.8
389	392.1	7.729	35.111		0.03	27.401	0.570	1488.	0.8
390	393.7	7.730	35.111		0.03	27.402	0.571	1488.	1.0
393	396.1	7.732	35.110		0.03	27.401	0.573	1488.	1.4
394	397.9	7.726	35.111		0.03	27.402	0.574	1488.	1.7
397	400.1	7.714	35.110		0.03	27.403	0.576	1488.	1.9

SHIP	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH
OC	159	11	16 NOV 1984	2126	39°53.5'N	70°04.2'W	578

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
398	401.7	7.688	35.107		0.03	27.405	0.577	1488.	2.0
401	404.2	7.625	35.107		0.03	27.414	0.579	1488.	2.0
402	406.0	7.604	35.104		0.03	27.415	0.580	1488.	1.9
405	408.1	7.599	35.105		0.03	27.416	0.582	1488.	1.7
406	409.8	7.596	35.104		0.03	27.416	0.583	1488.	1.4
409	412.2	7.591	35.104		0.03	27.416	0.585	1488.	1.1
410	413.8	7.589	35.104		0.03	27.417	0.586	1488.	1.3
412	416.0	7.581	35.103		0.03	27.417	0.588	1488.	1.5
414	418.0	7.574	35.103		0.03	27.418	0.589	1488.	1.8
416	420.0	7.549	35.102		0.03	27.421	0.590	1488.	2.1
418	422.0	7.517	35.099		0.03	27.424	0.592	1488.	2.4
420	424.1	7.490	35.099		0.03	27.427	0.593	1488.	2.5
422	426.0	7.437	35.092		0.03	27.430	0.595	1487.	2.6
424	428.0	7.371	35.092		0.03	27.439	0.596	1487.	2.4
427	430.2	7.333	35.090		0.03	27.443	0.598	1487.	2.2
428	432.0	7.326	35.090		0.03	27.444	0.599	1487.	2.0
430	433.8	7.322	35.090		0.03	27.445	0.600	1487.	1.7
432	436.2	7.318	35.090		0.03	27.445	0.602	1487.	1.5
434	437.8	7.314	35.089		0.03	27.445	0.603	1487.	1.7
436	440.0	7.293	35.087		0.03	27.446	0.605	1487.	1.8
438	441.7	7.267	35.084		0.03	27.448	0.606	1487.	1.9
440	444.1	7.224	35.085		0.03	27.454	0.607	1487.	1.9
442	446.1	7.201	35.083		0.03	27.456	0.609	1487.	1.8
444	448.2	7.193	35.084		0.03	27.458	0.610	1487.	1.6
446	450.0	7.189	35.083		0.03	27.458	0.612	1487.	1.4
448	452.2	7.187	35.083		0.03	27.458	0.613	1487.	0.9
450	453.6	7.188	35.083		0.03	27.458	0.614	1487.	0.7
452	456.1	7.183	35.083		0.03	27.459	0.616	1487.	0.6
454	458.0	7.182	35.083		0.03	27.459	0.617	1487.	0.7
456	460.1	7.178	35.083		0.03	27.459	0.618	1487.	0.8
458	461.8	7.178	35.083		0.03	27.459	0.620	1487.	0.7
460	464.0	7.174	35.082		0.03	27.459	0.621	1487.	1.1
462	465.9	7.165	35.082		0.03	27.460	0.622	1487.	1.5
464	468.1	7.159	35.082		0.03	27.461	0.624	1487.	1.8
466	469.8	7.137	35.076		0.03	27.460	0.625	1487.	2.0
468	471.9	7.083	35.074		0.03	27.466	0.627	1487.	2.1
470	473.9	7.057	35.076		0.04	27.471	0.628	1487.	2.2
472	476.3	7.037	35.077		0.04	27.474	0.630	1487.	2.4
473	477.5	7.033	35.075		0.04	27.474	0.630	1487.	2.5
476	479.8	7.000	35.074		0.04	27.477	0.632	1487.	2.5
478	481.8	6.924	35.060		0.04	27.477	0.633	1486.	2.4
480	484.2	6.867	35.068		0.04	27.491	0.635	1486.	2.3
481	485.7	6.861	35.068		0.04	27.492	0.636	1486.	2.2
484	488.1	6.859	35.068		0.04	27.492	0.637	1486.	1.9
485	489.8	6.858	35.068		0.04	27.493	0.639	1486.	1.7
488	492.2	6.850	35.067		0.04	27.493	0.640	1486.	1.5
490	493.9	6.830	35.066		0.04	27.495	0.641	1486.	1.7
492	496.3	6.810	35.063		0.04	27.495	0.643	1486.	2.4
494	497.9	6.771	35.059		0.04	27.497	0.644	1486.	3.2
495	499.9	6.744	35.063		0.05	27.504	0.645	1486.	3.9

SHIP	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH
OC	159	11	16 NOV 1984	2126	39°53.5'N	70°04.2'W	578

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

515	520.1	6.093	35.036		0.04	27.569	0.657	1484.	0.9
535	540.0	6.012	35.033		0.04	27.577	0.669	1484.	1.3
555	560.0	5.703	35.009		0.04	27.598	0.680	1483.	2.4

SHIP	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH
OC	159	12	16 NOV 1984	2319	39°48.0'N	70°05.4'W	1175

DEPTH m	PRESS dbar	TEMP °C	SALIN psu	OXY ml/l	ATN m^{-1}	SIGT gm/cm^3	DYHT A $10m^2/s^2$	S SPD m/s	N cph
4	4.4	15.850	34.288		0.14	25.235	0.000	1509.	-0.9
6	5.8	15.867	34.288		0.13	25.231	0.004	1509.	-0.9
8	7.8	15.876	34.294		0.13	25.233	0.009	1509.	-0.9
10	10.4	15.872	34.293		0.13	25.234	0.016	1509.	-0.9
12	12.0	15.864	34.289		0.13	25.232	0.021	1509.	-0.9
14	14.0	15.867	34.287		0.13	25.230	0.026	1509.	-0.5
16	16.2	15.874	34.287		0.13	25.229	0.032	1509.	-0.5
18	17.7	15.884	34.292		0.13	25.230	0.036	1509.	-0.3
20	20.1	15.893	34.295		0.13	25.231	0.043	1509.	0.6
22	21.9	15.901	34.299		0.13	25.232	0.048	1509.	0.9
24	24.1	15.904	34.300		0.13	25.232	0.054	1509.	0.9
26	25.9	15.910	34.300		0.13	25.231	0.059	1509.	0.8
28	27.9	15.914	34.303		0.14	25.232	0.064	1509.	0.6
30	30.0	15.916	34.306		0.13	25.233	0.070	1509.	-1.3
32	32.2	15.922	34.307		0.13	25.233	0.076	1509.	0.5
34	34.1	15.944	34.313		0.13	25.233	0.081	1509.	1.5
36	36.1	15.951	34.313		0.13	25.231	0.087	1509.	2.1
38	37.9	16.085	34.331		0.13	25.214	0.092	1510.	2.8
40	39.9	16.167	34.397		0.13	25.246	0.097	1510.	3.9
42	42.1	16.234	34.421		0.12	25.250	0.103	1511.	4.6
44	44.0	16.358	34.467		0.12	25.257	0.108	1511.	5.5
46	46.0	16.516	34.543		0.11	25.278	0.114	1512.	6.0
48	48.0	16.677	34.644		0.09	25.318	0.119	1512.	6.1
50	49.9	17.060	34.785		0.07	25.336	0.124	1514.	6.2
52	52.0	17.279	34.915		0.07	25.384	0.130	1514.	6.2
54	54.0	17.327	34.955		0.07	25.403	0.135	1515.	6.4
56	56.1	17.236	34.936		0.07	25.410	0.140	1514.	7.2
58	58.1	17.129	34.917		0.07	25.421	0.146	1514.	8.5
59	59.9	17.073	34.940		0.06	25.452	0.150	1514.	9.3
61	61.9	16.904	34.974		0.05	25.518	0.155	1514.	9.9
63	64.0	16.230	34.925		0.04	25.638	0.160	1511.	10.1
65	65.9	15.275	34.808		0.04	25.764	0.164	1508.	9.9
67	67.9	14.775	34.692		0.04	25.784	0.169	1507.	9.3
70	70.1	14.444	34.651		0.04	25.824	0.174	1506.	8.8
71	71.9	14.347	34.642		0.04	25.838	0.178	1505.	8.0
73	74.0	14.214	34.626		0.04	25.854	0.182	1505.	7.8
75	76.1	13.758	34.570		0.03	25.906	0.187	1503.	8.4
77	77.9	13.139	34.514		0.03	25.989	0.190	1501.	8.8
79	80.1	12.949	34.492		0.03	26.010	0.195	1501.	9.1
81	81.9	12.832	34.536		0.02	26.067	0.198	1500.	9.1
83	83.9	12.635	34.578		0.02	26.139	0.202	1500.	8.9
85	86.1	12.526	34.613		0.03	26.187	0.206	1500.	8.4
87	87.8	12.614	34.691		0.02	26.231	0.210	1500.	8.3
89	90.1	12.524	34.710		0.02	26.264	0.214	1500.	7.9
91	91.8	12.381	34.723		0.02	26.301	0.217	1499.	7.5
93	94.1	12.576	34.793		0.03	26.317	0.220	1500.	7.2
95	95.9	12.540	34.852		0.02	26.370	0.223	1500.	6.7
97	98.0	12.475	34.876		0.02	26.402	0.227	1500.	6.3
99	100.0	12.808	35.006		0.02	26.436	0.230	1501.	5.9
101	102.0	13.348	35.149		0.02	26.439	0.234	1503.	5.5

SHIP	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH
OC	159	12	16 NOV 1984	2319	39°48.0'N	70°05.4'W	1175

DEPTH m	PRESS dbar	TEMP °C	SALIN psu	OXY ml/l	ATN m^{-1}	SIGT gm/cm^3	DYHT A $10m^2/s^2$	S SPD m/s	N cph
103	104.0	13.622	35.234		0.02	26.448	0.237	1504.	4.8
105	105.9	13.795	35.296		0.02	26.459	0.240	1505.	4.4
107	108.0	13.900	35.350		0.02	26.479	0.243	1505.	4.0
109	109.7	13.975	35.387		0.02	26.493	0.246	1506.	4.2
111	112.2	14.028	35.412		0.02	26.500	0.250	1506.	4.3
113	114.0	14.080	35.431		0.02	26.504	0.252	1506.	4.6
115	116.1	14.152	35.459		0.02	26.511	0.256	1506.	5.1
117	117.9	14.298	35.527		0.02	26.532	0.258	1507.	5.1
119	120.1	14.335	35.571		0.02	26.558	0.262	1507.	5.0
121	122.0	14.336	35.607		0.02	26.585	0.265	1507.	4.7
123	124.0	14.071	35.584		0.02	26.625	0.267	1506.	4.4
125	126.0	13.796	35.473		0.02	26.596	0.270	1505.	4.0
127	128.2	13.782	35.471		0.02	26.597	0.274	1505.	3.8
129	130.0	13.854	35.498		0.02	26.603	0.276	1506.	3.5
131	132.0	13.956	35.540		0.01	26.614	0.279	1506.	3.8
133	134.0	14.174	35.625		0.01	26.634	0.282	1507.	4.5
135	136.0	14.150	35.650		0.01	26.658	0.285	1507.	4.7
137	138.1	14.117	35.637		0.01	26.655	0.288	1507.	4.7
139	140.1	14.135	35.671		0.01	26.678	0.291	1507.	4.6
141	142.0	14.143	35.692		0.01	26.693	0.293	1507.	4.3
143	144.2	14.148	35.712		0.01	26.707	0.296	1507.	4.0
145	146.3	14.157	35.722		0.01	26.713	0.299	1507.	3.8
147	147.8	14.136	35.731		0.01	26.724	0.301	1507.	3.5
149	149.8	14.164	35.732		0.01	26.719	0.304	1507.	3.1
151	151.8	14.160	35.745		0.01	26.730	0.307	1507.	3.0
153	154.2	14.149	35.749		0.01	26.735	0.310	1507.	3.1
155	156.0	14.038	35.732		0.01	26.746	0.312	1507.	3.2
157	158.0	13.998	35.717		0.01	26.743	0.315	1507.	3.4
159	160.0	14.006	35.731		0.01	26.752	0.318	1507.	3.5
161	162.3	14.006	35.746		0.01	26.764	0.321	1507.	3.6
163	164.1	13.971	35.752		0.01	26.776	0.323	1507.	3.4
165	166.1	13.928	35.748		0.01	26.781	0.326	1507.	3.5
166	167.7	13.880	35.748		0.01	26.792	0.328	1507.	3.5
169	169.9	13.848	35.740		0.01	26.792	0.331	1507.	3.3
170	171.8	13.824	35.736		0.01	26.794	0.333	1507.	3.1
173	174.2	13.759	35.736		0.01	26.807	0.336	1506.	3.0
174	175.9	13.637	35.718		0.01	26.819	0.338	1506.	2.9
177	178.0	13.617	35.712		0.01	26.819	0.341	1506.	2.9
179	180.0	13.620	35.713		0.01	26.819	0.343	1506.	2.9
181	182.1	13.627	35.721		0.01	26.823	0.346	1506.	2.8
183	184.0	13.644	35.732		0.00	26.828	0.349	1506.	2.9
184	185.9	13.679	35.749		0.00	26.834	0.351	1506.	3.0
186	187.9	13.693	35.766		0.00	26.845	0.353	1506.	3.1
188	190.0	13.696	35.777		0.00	26.852	0.356	1507.	3.1
191	192.1	13.683	35.779		0.00	26.857	0.359	1507.	3.1
192	194.1	13.654	35.775		0.00	26.860	0.361	1506.	3.0
194	196.0	13.616	35.768		0.00	26.863	0.363	1506.	2.8
196	198.0	13.520	35.758		0.00	26.874	0.366	1506.	2.7
198	200.0	13.431	35.738		0.00	26.877	0.368	1506.	2.6
200	202.0	13.368	35.722		0.00	26.878	0.371	1506.	2.5

SHIP	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH
OC	159	12	16 NOV 1984	2319	39°48.0'N	70°05.4'W	1175

DEPTH m	PRESS dbar	TEMP °C	SALIN psu	OXY ml/l	ATN m^{-1}	SIGT gm/cm^3	DYHT A $10m^2/s^2$	S SPD m/s	N cph
202	203.9	13.298	35.710		0.00	26.883	0.373	1505.	2.4
204	206.1	13.270	35.706		0.00	26.886	0.376	1505.	2.5
207	208.2	13.236	35.700		0.00	26.888	0.378	1505.	2.7
208	210.1	13.219	35.696		0.00	26.889	0.381	1505.	2.7
210	212.0	13.191	35.697		0.00	26.895	0.383	1505.	2.8
212	213.9	13.130	35.700		0.00	26.909	0.385	1505.	2.7
214	216.0	13.053	35.683		0.00	26.912	0.388	1505.	2.6
216	218.0	13.009	35.671		0.00	26.912	0.390	1505.	3.2
218	219.8	12.970	35.667		0.00	26.916	0.392	1505.	3.4
220	222.1	12.942	35.658		0.00	26.915	0.395	1504.	3.4
222	224.0	12.884	35.647		0.00	26.919	0.397	1504.	3.7
224	225.9	12.691	35.653		0.00	26.961	0.399	1504.	3.9
226	228.0	12.544	35.608		0.00	26.956	0.402	1503.	3.8
228	230.1	12.473	35.593		0.00	26.958	0.404	1503.	3.6
230	231.9	12.355	35.576		0.00	26.969	0.406	1503.	3.3
232	234.0	12.277	35.567		0.00	26.977	0.409	1502.	2.6
234	236.1	12.268	35.563		0.00	26.975	0.411	1502.	2.7
236	238.1	12.245	35.561		0.00	26.978	0.413	1502.	2.8
238	240.0	12.191	35.559		0.00	26.987	0.415	1502.	2.7
240	242.1	12.166	35.551		0.00	26.986	0.418	1502.	3.1
242	243.9	12.132	35.550		0.00	26.992	0.420	1502.	3.6
244	246.0	12.067	35.551		0.00	27.005	0.422	1502.	4.0
246	248.0	11.969	35.524		0.00	27.003	0.424	1501.	4.3
248	249.9	11.769	35.512		0.00	27.031	0.426	1501.	4.5
250	252.0	11.637	35.492		0.00	27.042	0.429	1500.	4.4
252	254.1	11.516	35.479		0.00	27.054	0.431	1500.	4.3
254	255.9	11.295	35.452		0.00	27.074	0.433	1499.	4.0
256	258.1	11.191	35.424		0.00	27.072	0.435	1499.	3.5
258	260.1	11.138	35.422		0.00	27.079	0.437	1499.	3.2
260	261.8	11.050	35.405		0.00	27.083	0.439	1498.	2.9
262	264.0	11.037	35.407		0.00	27.086	0.441	1498.	2.6
264	266.0	11.006	35.404		0.00	27.090	0.443	1498.	2.5
266	268.0	10.956	35.399		0.00	27.095	0.445	1498.	2.3
268	270.2	10.904	35.393		0.00	27.099	0.448	1498.	2.0
270	272.1	10.888	35.393		0.00	27.103	0.449	1498.	2.1
272	273.9	10.883	35.386		0.00	27.098	0.451	1498.	2.3
274	276.1	10.857	35.387		0.00	27.104	0.454	1498.	2.5
276	278.1	10.814	35.371		0.00	27.099	0.456	1498.	2.8
278	279.8	10.676	35.357		0.00	27.113	0.457	1497.	2.9
280	282.2	10.571	35.348		0.00	27.124	0.460	1497.	3.0
282	284.1	10.537	35.344		0.00	27.127	0.462	1497.	2.8
284	285.9	10.486	35.339		0.00	27.132	0.463	1497.	2.6
286	288.0	10.478	35.338		0.00	27.133	0.465	1497.	2.1
287	289.7	10.472	35.336		0.00	27.133	0.467	1497.	1.9
290	292.3	10.461	35.337		0.00	27.135	0.470	1497.	2.4
291	293.9	10.446	35.336		0.00	27.137	0.471	1497.	2.6
294	296.0	10.418	35.333		0.00	27.140	0.473	1497.	3.1
296	298.1	10.366	35.326		0.00	27.143	0.475	1496.	3.5
297	299.9	10.238	35.325		0.00	27.165	0.477	1496.	3.8
300	302.1	10.131	35.296		0.00	27.161	0.479	1496.	3.9

SHIP	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH
OC	159	12	16 NOV 1984	2319	39°48.0'N	70°05.4'W	1175

DEPTH m	PRESS dbar	TEMP °C	SALIN psu	OXY ml/l	ATN m^{-1}	SIGT gm/cm^3	DYHT A $10m^2/s^2$	S SPD m/s	N cph
301	303.8	9.925	35.276		0.00	27.181	0.481	1495.	3.9
304	306.1	9.801	35.261		0.00	27.190	0.483	1494.	3.8
305	308.0	9.758	35.258		0.00	27.195	0.485	1494.	3.4
307	309.8	9.710	35.252		0.00	27.199	0.486	1494.	3.5
309	312.1	9.647	35.252		0.00	27.209	0.489	1494.	3.3
311	313.9	9.611	35.251		0.00	27.214	0.490	1494.	3.1
313	316.0	9.591	35.244		0.01	27.212	0.492	1494.	3.0
315	318.0	9.515	35.254		0.01	27.233	0.494	1494.	2.9
317	320.0	9.435	35.236		0.01	27.233	0.496	1493.	2.7
319	321.9	9.406	35.230		0.01	27.232	0.497	1493.	2.5
321	324.0	9.379	35.230		0.01	27.237	0.499	1493.	2.2
323	326.0	9.350	35.226		0.01	27.238	0.501	1493.	1.7
325	327.9	9.320	35.224		0.01	27.242	0.503	1493.	1.6
327	330.1	9.315	35.222		0.01	27.241	0.505	1493.	1.5
329	331.8	9.307	35.222		0.01	27.243	0.506	1493.	1.3
331	334.1	9.300	35.223		0.01	27.244	0.508	1493.	1.3
333	336.2	9.300	35.221		0.01	27.243	0.510	1493.	1.3
335	337.8	9.297	35.223		0.01	27.245	0.512	1493.	1.7
338	340.4	9.282	35.221		0.01	27.246	0.514	1493.	2.1
339	341.8	9.268	35.221		0.01	27.248	0.515	1493.	2.3
341	344.2	9.237	35.217		0.01	27.250	0.517	1493.	2.5
343	346.0	9.179	35.217		0.01	27.260	0.519	1493.	2.6
345	347.6	9.118	35.213		0.01	27.266	0.520	1493.	2.6
347	350.2	9.079	35.205		0.01	27.266	0.522	1492.	2.5
349	351.7	9.054	35.204		0.01	27.269	0.524	1492.	2.3
351	354.2	9.026	35.203		0.01	27.273	0.526	1492.	1.9
353	355.9	8.999	35.199		0.01	27.275	0.527	1492.	1.7
355	357.6	8.982	35.198		0.01	27.276	0.529	1492.	1.6
357	360.1	8.972	35.196		0.01	27.277	0.531	1492.	1.4
359	362.0	8.968	35.197		0.01	27.278	0.533	1492.	1.3
361	363.9	8.962	35.196		0.01	27.279	0.534	1492.	1.4
363	365.8	8.958	35.196		0.01	27.279	0.536	1492.	1.6
365	368.2	8.947	35.195		0.01	27.280	0.538	1492.	1.8
367	369.9	8.923	35.193		0.01	27.282	0.539	1492.	1.9
369	372.0	8.877	35.188		0.01	27.286	0.541	1492.	2.1
371	373.9	8.846	35.186		0.01	27.289	0.543	1492.	2.1
373	376.3	8.827	35.185		0.01	27.291	0.545	1492.	2.2
375	377.9	8.808	35.184		0.01	27.294	0.546	1492.	2.5
377	380.1	8.781	35.185		0.01	27.299	0.548	1492.	2.8
379	382.0	8.752	35.178		0.01	27.298	0.549	1492.	2.9
381	383.9	8.715	35.178		0.01	27.303	0.551	1492.	3.1
383	385.9	8.634	35.178		0.01	27.317	0.553	1491.	3.2
385	388.1	8.573	35.179		0.01	27.326	0.555	1491.	3.3
387	389.9	8.517	35.167		0.01	27.326	0.556	1491.	3.4
389	392.1	8.456	35.162		0.01	27.331	0.558	1491.	3.3
391	394.1	8.353	35.153		0.01	27.340	0.559	1490.	3.2
393	396.3	8.234	35.141		0.01	27.349	0.561	1490.	3.3
395	397.9	8.199	35.138		0.01	27.352	0.562	1490.	3.5
397	400.0	8.165	35.133		0.01	27.354	0.564	1490.	3.5
399	402.0	8.075	35.131		0.01	27.366	0.566	1490.	3.6

SHIP	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH
OC	159	12	16 NOV 1984	2319	39°48.0'N	70°05.4'W	1175

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
400	403.9	7.978	35.126		0.01	27.377	0.567	1489.	3.5
402	405.9	7.905	35.120		0.01	27.383	0.569	1489.	3.4
405	408.1	7.852	35.118		0.01	27.389	0.570	1489.	3.3
406	410.0	7.765	35.114		0.01	27.399	0.572	1488.	3.1
409	412.1	7.740	35.108		0.01	27.398	0.573	1488.	3.2
410	414.0	7.704	35.107		0.01	27.402	0.575	1488.	3.4
412	416.1	7.663	35.107		0.01	27.409	0.576	1488.	3.4
414	418.0	7.605	35.104		0.01	27.415	0.578	1488.	3.3
416	420.0	7.497	35.105		0.01	27.431	0.579	1488.	3.3
418	421.7	7.382	35.094		0.01	27.439	0.580	1487.	3.1
420	424.0	7.367	35.091		0.01	27.439	0.582	1487.	2.8
422	426.1	7.353	35.091		0.01	27.441	0.583	1487.	2.4
424	428.0	7.323	35.092		0.01	27.446	0.585	1487.	1.9
426	429.9	7.317	35.091		0.01	27.446	0.586	1487.	1.6
428	431.9	7.306	35.090		0.01	27.447	0.587	1487.	1.7
430	434.1	7.293	35.089		0.01	27.448	0.589	1487.	1.5
432	436.2	7.283	35.089		0.01	27.450	0.590	1487.	1.6
434	438.3	7.276	35.089		0.01	27.451	0.592	1487.	1.7
436	440.1	7.263	35.091		0.01	27.454	0.593	1487.	1.8
438	442.0	7.245	35.086		0.01	27.453	0.594	1487.	1.9
440	443.9	7.200	35.087		0.01	27.460	0.596	1487.	1.9
442	446.1	7.179	35.082		0.01	27.459	0.597	1487.	1.8
444	447.9	7.162	35.082		0.01	27.461	0.598	1487.	1.7
446	449.6	7.145	35.081		0.01	27.462	0.600	1487.	1.6
448	452.2	7.131	35.081		0.01	27.464	0.601	1487.	1.3
450	454.1	7.121	35.080		0.01	27.466	0.603	1487.	1.3
452	455.9	7.112	35.078		0.01	27.465	0.604	1487.	1.2
454	458.0	7.109	35.079		0.01	27.466	0.605	1487.	1.1
456	460.3	7.104	35.078		0.01	27.466	0.607	1487.	1.0
458	461.9	7.095	35.078		0.01	27.467	0.608	1487.	1.4
460	464.2	7.091	35.078		0.01	27.468	0.610	1487.	1.6
462	466.1	7.085	35.079		0.01	27.469	0.611	1487.	1.9
464	468.0	7.074	35.076		0.01	27.468	0.612	1487.	2.2
466	469.9	7.024	35.078		0.01	27.477	0.613	1487.	2.3
468	472.0	6.991	35.070		0.01	27.476	0.615	1486.	2.6
470	474.3	6.948	35.073		0.01	27.484	0.616	1486.	2.7
472	475.9	6.895	35.070		0.01	27.489	0.617	1486.	2.7
474	478.1	6.847	35.062		0.01	27.489	0.619	1486.	2.5
476	479.7	6.803	35.066		0.01	27.499	0.620	1486.	2.3
478	481.8	6.783	35.064		0.01	27.500	0.621	1486.	2.0
480	483.9	6.776	35.064		0.01	27.500	0.623	1486.	1.7
481	485.8	6.772	35.062		0.01	27.500	0.624	1486.	1.5
484	488.2	6.764	35.063		0.01	27.501	0.625	1486.	1.3
486	490.0	6.760	35.062		0.01	27.501	0.627	1486.	1.6
488	492.0	6.749	35.062		0.01	27.502	0.628	1486.	1.9
490	493.9	6.735	35.061		0.01	27.504	0.629	1486.	2.4
492	496.0	6.711	35.063		0.01	27.508	0.630	1486.	2.7
494	498.1	6.640	35.056		0.01	27.513	0.632	1486.	2.9
496	500.0	6.577	35.051		0.01	27.517	0.633	1485.	3.3
515	520.0	6.025	35.038		0.01	27.580	0.645	1483.	2.8

SHIP	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH
OC	159	12	16 NOV 1984	2319	39°48.0'N	70°05.4'W	1175

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
535	540.2	5.855	35.027		0.01	27.593	0.656	1483.	1.6
555	560.2	5.707	35.024		0.01	27.609	0.667	1483.	1.0
574	579.2	5.671	35.019		0.01	27.610	0.678	1483.	0.8
595	600.7	5.625	35.035		0.00	27.628	0.689	1483.	2.3
614	620.0	5.545	35.023		0.01	27.628	0.700	1483.	0.3
634	640.0	5.497	35.017		0.01	27.630	0.710	1483.	0.9
654	659.9	5.396	35.009		0.01	27.635	0.721	1483.	1.5
674	679.9	5.263	35.005		0.00	27.648	0.732	1483.	1.5
693	699.8	5.181	35.000		0.00	27.654	0.742	1483.	1.0
713	720.0	5.072	34.995		0.01	27.663	0.752	1483.	1.5
733	739.8	4.965	34.992		0.00	27.673	0.762	1483.	0.9
753	760.3	4.940	34.990		0.00	27.675	0.772	1483.	0.9
772	779.8	4.855	34.988		0.00	27.683	0.782	1483.	1.7
796	804.1	4.820	34.991		0.00	27.689	0.794	1483.	0.9
816	823.7	4.732	34.997		0.00	27.704	0.803	1483.	0.6
836	844.2	4.704	34.983		0.00	27.696	0.813	1483.	0.9
856	864.0	4.644	34.983		0.00	27.702	0.823	1483.	0.5
875	883.7	4.591	34.977		0.00	27.704	0.832	1484.	0.4
895	904.2	4.521	34.975		0.00	27.710	0.842	1484.	1.1
915	923.8	4.476	34.976		0.01	27.716	0.851	1484.	-0.3
934	943.6	4.466	34.974		0.01	27.716	0.860	1484.	0.8
954	964.1	4.447	34.974		0.01	27.717	0.870	1484.	0.8
974	984.0	4.429	34.973		0.01	27.719	0.879	1485.	-0.1
994	1003.9	4.398	34.973		0.01	27.722	0.888	1485.	1.0
1014	1024.1	4.351	34.970		0.00	27.725	0.898	1485.	1.1
1033	1044.0	4.324	34.966		0.01	27.725	0.907	1485.	-0.4
1053	1063.8	4.323	34.967		0.01	27.726	0.916	1485.	-0.1
1073	1083.9	4.322	34.967		0.01	27.725	0.926	1486.	-0.3

SHIP	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH
OC	159	13	17 NOV 1984	1905	39°57.6'N	68°33.5'W	2200

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	1.1	14.824	34.209		0.17	25.401	0.000	1505.	1.4
4	4.5	14.828	34.210		0.17	25.401	0.009	1505.	1.4
6	6.0	14.848	34.212		0.16	25.398	0.012	1505.	1.4
8	7.8	14.848	34.212		0.16	25.399	0.017	1505.	1.4
10	10.1	14.848	34.212		0.16	25.398	0.023	1505.	1.4
12	12.1	14.775	34.202		0.16	25.406	0.028	1505.	1.4
14	14.1	14.766	34.201		0.16	25.408	0.033	1505.	1.4
16	15.8	14.766	34.201		0.16	25.408	0.038	1505.	1.1
18	17.9	14.781	34.203		0.16	25.406	0.043	1505.	0.7
20	20.1	14.789	34.205		0.16	25.406	0.049	1505.	-0.8
22	21.8	14.793	34.206		0.16	25.406	0.053	1505.	-0.8
24	24.1	14.802	34.207		0.16	25.405	0.059	1506.	-0.7
26	26.1	14.812	34.210		0.16	25.404	0.064	1506.	0.4
28	28.0	14.802	34.206		0.16	25.403	0.069	1506.	0.9
30	30.1	14.792	34.205		0.16	25.405	0.074	1506.	1.3
32	32.0	14.780	34.201		0.16	25.404	0.079	1506.	1.6
34	34.2	14.771	34.203		0.15	25.408	0.085	1506.	1.7
36	35.9	14.755	34.202		0.15	25.411	0.089	1506.	1.7
38	38.1	14.718	34.196		0.15	25.414	0.095	1505.	1.6
39	39.7	14.705	34.194		0.15	25.415	0.099	1505.	1.4
42	42.0	14.696	34.191		0.15	25.415	0.105	1505.	1.1
44	44.0	14.690	34.188		0.15	25.414	0.110	1505.	0.7
46	46.1	14.685	34.188		0.15	25.415	0.115	1505.	0.6
48	48.0	14.670	34.184		0.15	25.415	0.120	1505.	1.4
50	50.0	14.682	34.187		0.15	25.415	0.125	1506.	3.1
52	52.2	14.693	34.188		0.15	25.413	0.131	1506.	5.0
54	54.2	14.694	34.193		0.15	25.417	0.136	1506.	7.6
55	55.7	14.603	34.186		0.14	25.432	0.140	1505.	9.5
58	58.0	14.385	34.205		0.11	25.492	0.146	1505.	11.2
60	60.0	14.098	34.247		0.07	25.585	0.151	1504.	12.0
61	62.0	13.514	34.345		0.04	25.782	0.155	1502.	12.4
64	64.0	13.303	34.434		0.03	25.894	0.160	1502.	12.2
65	65.9	13.087	34.517		0.03	26.002	0.164	1501.	11.6
67	68.0	13.000	34.531		0.03	26.030	0.168	1501.	10.4
69	70.0	12.834	34.551		0.02	26.079	0.172	1500.	8.8
72	72.1	12.605	34.571		0.02	26.140	0.176	1500.	7.7
73	73.8	12.468	34.569		0.02	26.165	0.179	1499.	6.9
75	76.0	12.444	34.570		0.02	26.171	0.183	1499.	6.6
77	77.9	12.370	34.581		0.02	26.193	0.187	1499.	6.1
80	80.2	12.279	34.603		0.02	26.228	0.191	1499.	7.1
81	81.8	12.319	34.632		0.02	26.242	0.194	1499.	8.2
84	84.2	12.929	34.816		0.02	26.265	0.198	1501.	8.9
85	86.0	13.737	35.061		0.01	26.290	0.201	1504.	9.1
87	87.9	14.090	35.389		0.01	26.470	0.204	1506.	9.2
89	90.2	13.891	35.417		0.01	26.533	0.208	1505.	9.0
91	92.1	13.917	35.438		0.01	26.544	0.211	1505.	8.4
93	94.1	14.128	35.503		0.01	26.550	0.214	1506.	7.3
95	95.9	14.271	35.616		0.01	26.606	0.216	1507.	5.8
97	98.1	14.222	35.610		0.01	26.613	0.219	1507.	5.5
99	100.0	14.236	35.628		0.01	26.623	0.222	1507.	5.6

SHIP	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH
OC	159	13	17 NOV 1984	1905	39°57.6'N	68°33.5'W	2200

DEPTH m	PRESS dbar	TEMP °C	SALIN psu	OXY ml/l	ATN m^{-1}	SIGT gm/cm^3	DYHT A $10m^2/s^2$	S SPD m/s	N cph
101	101.8	14.300	35.649		0.01	26.626	0.225	1507.	5.4
103	103.9	14.297	35.688		0.00	26.657	0.228	1507.	5.1
105	106.2	14.213	35.713		0.00	26.694	0.231	1507.	5.0
107	107.7	14.183	35.715		0.00	26.702	0.233	1507.	4.8
109	110.1	14.167	35.719		0.00	26.708	0.236	1507.	4.5
111	111.9	14.138	35.725		0.00	26.719	0.239	1507.	3.9
113	113.9	14.115	35.728		0.00	26.726	0.241	1507.	3.3
115	116.1	14.095	35.732		0.00	26.733	0.244	1507.	3.2
117	117.9	14.078	35.731		0.00	26.737	0.247	1507.	3.0
119	119.8	14.057	35.733		0.00	26.743	0.249	1506.	3.1
121	122.1	14.044	35.735		0.00	26.747	0.252	1506.	3.4
123	124.0	14.027	35.737		0.00	26.752	0.255	1506.	3.7
125	126.0	14.014	35.740		0.00	26.757	0.257	1506.	3.9
127	128.3	13.970	35.750		0.00	26.774	0.260	1506.	4.1
129	129.8	13.925	35.760		0.00	26.791	0.262	1506.	4.1
131	132.0	13.897	35.764		0.00	26.800	0.265	1506.	4.1
133	133.9	13.849	35.765		0.00	26.811	0.268	1506.	4.0
135	135.9	13.800	35.763		0.00	26.820	0.270	1506.	3.9
137	138.2	13.779	35.761		0.00	26.823	0.273	1506.	3.8
139	139.9	13.747	35.762		0.00	26.830	0.275	1506.	3.7
141	142.0	13.710	35.770		0.00	26.844	0.278	1506.	3.6
143	143.9	13.598	35.754		0.00	26.855	0.280	1505.	3.4
145	146.3	13.504	35.740		0.00	26.864	0.283	1505.	3.2
147	148.1	13.447	35.725		0.00	26.864	0.285	1505.	3.0
149	149.9	13.384	35.714		0.00	26.869	0.287	1505.	2.9
151	152.2	13.357	35.709		0.00	26.870	0.290	1505.	3.1
153	154.0	13.338	35.708		0.00	26.874	0.292	1505.	3.3
155	156.2	13.269	35.700		0.01	26.882	0.295	1504.	3.5
157	157.9	13.126	35.681		0.01	26.896	0.297	1504.	3.7
159	160.0	13.061	35.679		0.01	26.907	0.300	1504.	3.9
161	161.9	12.956	35.656		0.00	26.911	0.302	1503.	4.0
163	164.1	12.859	35.645		0.00	26.922	0.304	1503.	3.8
165	165.8	12.761	35.632		0.00	26.931	0.306	1503.	3.5
167	168.3	12.680	35.627		0.00	26.944	0.309	1503.	3.3
168	169.8	12.574	35.607		0.00	26.950	0.311	1502.	3.1
170	171.9	12.518	35.595		0.00	26.951	0.313	1502.	2.9
173	174.0	12.494	35.591		0.00	26.953	0.316	1502.	2.9
174	175.9	12.466	35.587		0.00	26.955	0.318	1502.	2.9
177	178.0	12.432	35.586		0.01	26.961	0.320	1502.	3.1
179	180.0	12.338	35.574		0.01	26.970	0.322	1502.	3.1
180	181.9	12.226	35.561		0.00	26.982	0.325	1501.	3.2
183	184.1	12.177	35.555		0.00	26.986	0.327	1501.	3.5
184	185.7	12.130	35.548		0.00	26.990	0.329	1501.	3.5
187	188.1	12.098	35.541		0.00	26.992	0.331	1501.	3.5
188	189.9	12.022	35.535		0.00	27.002	0.333	1501.	3.4
190	191.8	11.863	35.524		0.00	27.023	0.335	1500.	3.4
193	194.2	11.757	35.500		0.00	27.025	0.338	1500.	3.4
194	195.7	11.720	35.494		0.00	27.027	0.340	1500.	3.4
196	197.9	11.704	35.492		0.00	27.029	0.342	1500.	3.2
198	200.0	11.622	35.483		0.00	27.037	0.344	1499.	2.9

SHIP	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH
OC	159	13	17 NOV 1984	1905	39°57.6'N	68°33.5'W	2200

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	11.531	35.475		0.00	27.048	0.346	1499.	3.0
203	204.2	11.436	35.466		0.01	27.058	0.349	1499.	3.1
204	205.9	11.374	35.448		0.01	27.056	0.350	1499.	3.1
206	208.1	11.354	35.444		0.01	27.057	0.353	1499.	3.0
208	210.0	11.315	35.442		0.01	27.063	0.355	1498.	3.0
210	212.2	11.262	35.445		0.01	27.075	0.357	1498.	3.1
212	213.8	11.103	35.411		0.01	27.077	0.359	1498.	3.3
214	216.1	11.027	35.407		0.01	27.088	0.361	1498.	3.3
216	217.9	10.954	35.393		0.01	27.091	0.363	1497.	3.2
218	219.8	10.856	35.379		0.01	27.097	0.365	1497.	3.1
220	222.0	10.750	35.363		0.01	27.104	0.367	1497.	3.1
222	224.2	10.678	35.349		0.01	27.106	0.369	1496.	2.9
224	225.8	10.593	35.343		0.01	27.116	0.371	1496.	2.7
226	228.2	10.546	35.336		0.01	27.119	0.373	1496.	2.6
228	230.1	10.503	35.330		0.01	27.123	0.375	1496.	2.5
230	231.9	10.485	35.328		0.01	27.124	0.377	1496.	2.5
232	234.1	10.471	35.325		0.01	27.125	0.379	1496.	2.5
234	235.9	10.415	35.320		0.01	27.130	0.381	1496.	2.7
236	237.9	10.381	35.321		0.01	27.137	0.383	1495.	2.8
238	240.2	10.314	35.310		0.01	27.140	0.385	1495.	2.8
240	241.9	10.235	35.305		0.01	27.150	0.386	1495.	2.7
242	244.1	10.208	35.304		0.01	27.154	0.389	1495.	2.5
244	245.8	10.184	35.302		0.01	27.156	0.390	1495.	2.3
246	248.2	10.171	35.299		0.01	27.157	0.393	1495.	2.1
248	249.7	10.153	35.299		0.01	27.159	0.394	1495.	2.2
250	251.8	10.130	35.295		0.01	27.160	0.396	1495.	2.6
252	254.2	10.117	35.295		0.01	27.163	0.398	1495.	2.9
254	256.0	10.093	35.294		0.01	27.166	0.400	1495.	3.2
256	258.1	10.031	35.300		0.01	27.182	0.402	1495.	3.2
258	260.0	9.848	35.268		0.01	27.188	0.404	1494.	3.2
260	261.9	9.735	35.257		0.01	27.198	0.405	1493.	3.0
262	264.0	9.673	35.244		0.01	27.198	0.407	1493.	2.7
264	265.9	9.650	35.239		0.01	27.199	0.409	1493.	2.1
266	267.9	9.638	35.240		0.01	27.201	0.411	1493.	1.8
268	270.0	9.610	35.237		0.01	27.204	0.413	1493.	1.5
270	271.9	9.594	35.234		0.01	27.204	0.415	1493.	1.5
272	274.1	9.577	35.232		0.01	27.205	0.417	1493.	1.4
274	276.0	9.568	35.232		0.01	27.207	0.418	1493.	1.3
276	278.0	9.562	35.231		0.01	27.207	0.420	1493.	1.2
278	280.0	9.557	35.230		0.01	27.207	0.422	1493.	1.2
280	282.0	9.540	35.228		0.01	27.208	0.424	1493.	1.2
282	284.2	9.528	35.226		0.01	27.209	0.426	1493.	1.2
283	285.8	9.522	35.227		0.01	27.210	0.427	1493.	1.2
286	288.2	9.512	35.226		0.01	27.211	0.429	1493.	1.2
288	289.9	9.512	35.226		0.01	27.211	0.431	1493.	1.2
290	292.1	9.504	35.227		0.01	27.214	0.433	1493.	1.3
291	293.7	9.494	35.224		0.01	27.213	0.434	1493.	1.9
294	296.1	9.488	35.223		0.01	27.213	0.437	1493.	2.3
295	297.7	9.467	35.222		0.01	27.216	0.438	1493.	2.6
298	300.3	9.431	35.216		0.01	27.218	0.440	1493.	2.7

SHIP	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH
OC	159	13	17 NOV 1984	1905	39°57.6'N	68°33.5'W	2200

DEPTH m	PRESS dbar	TEMP °C	SALIN psu	OXY ml/l	ATN m^{-1}	SIGT gm/cm^3	DYHT A $10m^2/s^2$	S SPD m/s	N cph
300	302.2	9.284	35.209		0.01	27.236	0.442	1492.	2.9
301	304.0	9.233	35.201		0.01	27.238	0.444	1492.	3.1
303	305.9	9.221	35.201		0.01	27.240	0.445	1492.	3.1
305	307.9	9.205	35.199		0.01	27.241	0.447	1492.	3.0
307	310.1	9.102	35.189		0.01	27.250	0.449	1492.	2.8
309	312.0	9.008	35.184		0.01	27.261	0.451	1492.	2.8
311	314.0	8.994	35.184		0.01	27.263	0.452	1492.	2.7
313	315.9	8.971	35.180		0.01	27.265	0.454	1492.	2.6
315	318.1	8.952	35.180		0.01	27.268	0.456	1491.	2.5
317	319.9	8.921	35.177		0.01	27.270	0.457	1491.	2.5
319	322.0	8.886	35.176		0.01	27.275	0.459	1491.	2.6
321	324.0	8.858	35.173		0.01	27.277	0.461	1491.	2.7
323	325.9	8.797	35.170		0.01	27.284	0.463	1491.	2.6
325	327.9	8.715	35.164		0.01	27.293	0.464	1491.	2.5
328	330.3	8.684	35.158		0.01	27.293	0.466	1491.	2.3
329	331.9	8.672	35.158		0.01	27.294	0.468	1491.	2.0
331	334.0	8.664	35.159		0.01	27.296	0.469	1491.	1.7
333	336.1	8.653	35.158		0.01	27.298	0.471	1491.	1.4
335	337.8	8.644	35.156		0.01	27.297	0.473	1491.	1.7
337	340.0	8.635	35.156		0.01	27.299	0.474	1491.	1.9
339	342.0	8.626	35.155		0.01	27.300	0.476	1491.	2.2
341	343.9	8.612	35.155		0.01	27.301	0.478	1491.	2.4
343	346.0	8.566	35.155		0.01	27.309	0.479	1490.	2.5
345	348.2	8.503	35.151		0.01	27.315	0.481	1490.	2.6
347	349.7	8.460	35.146		0.01	27.318	0.482	1490.	2.7
349	352.0	8.450	35.147		0.01	27.321	0.484	1490.	2.8
351	354.1	8.439	35.149		0.01	27.324	0.486	1490.	3.0
353	356.0	8.416	35.152		0.01	27.330	0.487	1490.	3.4
355	358.3	8.374	35.151		0.01	27.335	0.489	1490.	3.5
357	360.0	8.322	35.150		0.02	27.343	0.491	1490.	3.6
359	361.9	8.225	35.152		0.02	27.359	0.492	1489.	3.6
361	363.9	8.132	35.150		0.02	27.372	0.494	1489.	3.3
363	366.0	8.066	35.139		0.01	27.373	0.495	1489.	2.9
365	368.0	8.009	35.130		0.01	27.375	0.497	1489.	2.5
367	369.9	7.987	35.129		0.01	27.378	0.498	1489.	2.3
369	371.9	7.978	35.125		0.01	27.376	0.500	1489.	2.2
371	374.1	7.968	35.124		0.02	27.377	0.501	1489.	2.5
373	376.1	7.944	35.127		0.02	27.383	0.503	1489.	2.8
375	378.0	7.871	35.127		0.01	27.393	0.504	1488.	2.9
377	380.0	7.816	35.117		0.01	27.394	0.506	1488.	2.9
379	381.9	7.706	35.108		0.01	27.403	0.507	1488.	2.8
381	384.2	7.599	35.097		0.01	27.410	0.509	1487.	2.5
383	385.9	7.579	35.093		0.01	27.410	0.510	1487.	2.1
385	388.1	7.573	35.093		0.01	27.410	0.512	1487.	1.8
387	390.0	7.568	35.092		0.01	27.411	0.513	1487.	2.0
388	391.8	7.564	35.092		0.01	27.411	0.514	1487.	2.4
391	394.1	7.556	35.092		0.01	27.412	0.516	1487.	2.7
392	395.8	7.551	35.091		0.01	27.412	0.517	1487.	3.0
395	398.1	7.471	35.104		0.01	27.434	0.519	1487.	3.2
397	400.0	7.317	35.082		0.01	27.439	0.520	1487.	3.3

SHIP	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH
OC	159	13	17 NOV 1984	1905	39°57.6'N	68°33.5'W	2200

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
398	401.9	7.278	35.077		0.01	27.441	0.522	1486.	3.3
401	404.2	7.238	35.077		0.01	27.446	0.523	1486.	3.2
402	405.9	7.179	35.074		0.01	27.452	0.524	1486.	2.9
404	408.0	7.149	35.076		0.01	27.458	0.526	1486.	2.8
406	410.0	7.071	35.070		0.01	27.464	0.527	1486.	2.7
408	412.0	7.015	35.063		0.01	27.467	0.528	1486.	2.5
411	414.3	6.978	35.062		0.01	27.471	0.530	1485.	2.2
412	416.0	6.956	35.061		0.01	27.473	0.531	1485.	1.8
414	417.9	6.954	35.061		0.01	27.474	0.532	1485.	1.6
417	420.2	6.953	35.061		0.01	27.473	0.534	1485.	1.5
418	422.0	6.947	35.061		0.00	27.474	0.535	1485.	1.6
420	423.9	6.941	35.061		0.01	27.475	0.536	1485.	1.6
422	426.1	6.924	35.062		0.01	27.478	0.538	1485.	1.7
424	427.9	6.894	35.059		0.01	27.480	0.539	1485.	1.7
426	429.9	6.879	35.061		0.01	27.484	0.540	1485.	1.7
428	432.2	6.867	35.058		0.01	27.483	0.542	1485.	1.7
430	433.9	6.853	35.057		0.01	27.485	0.543	1485.	2.0
432	436.0	6.846	35.056		0.01	27.485	0.544	1485.	2.1
434	437.8	6.827	35.055		0.01	27.487	0.546	1485.	2.1
436	440.0	6.808	35.057		0.01	27.491	0.547	1485.	2.2
438	442.1	6.768	35.064		0.01	27.502	0.548	1485.	2.2
440	443.9	6.723	35.054		0.01	27.500	0.549	1485.	2.3
442	446.0	6.700	35.050		0.01	27.499	0.551	1485.	2.6
444	448.1	6.674	35.048		0.01	27.502	0.552	1485.	3.2
446	450.1	6.641	35.044		0.01	27.504	0.553	1485.	3.9
448	451.9	6.589	35.045		0.01	27.511	0.555	1485.	4.1
450	454.1	6.497	35.054		0.01	27.530	0.556	1484.	4.2
452	456.1	6.360	35.063		0.01	27.555	0.557	1484.	4.1
454	457.9	6.154	35.055		0.01	27.577	0.558	1483.	3.8
456	459.8	6.086	35.020		0.01	27.557	0.559	1483.	3.3
458	462.1	6.047	35.016		0.01	27.560	0.561	1483.	2.5
460	464.0	6.007	35.018		0.01	27.566	0.562	1482.	1.7
462	465.8	5.983	35.017		0.00	27.568	0.563	1482.	1.6
464	467.8	5.972	35.015		0.01	27.569	0.564	1482.	2.2
466	470.1	5.964	35.015		0.01	27.570	0.565	1482.	2.1
468	471.9	5.944	35.017		0.01	27.574	0.566	1482.	1.9
470	474.1	5.901	35.017		0.01	27.579	0.568	1482.	1.9
472	475.9	5.878	35.014		0.01	27.579	0.569	1482.	1.8
474	478.0	5.868	35.013		0.01	27.580	0.570	1482.	1.6
476	479.9	5.858	35.013		0.01	27.581	0.571	1482.	1.3
478	481.9	5.854	35.013		0.01	27.582	0.572	1482.	1.0
480	483.9	5.849	35.013		0.01	27.582	0.573	1482.	1.0
482	485.9	5.848	35.013		0.01	27.582	0.574	1482.	1.1
484	488.1	5.849	35.013		0.01	27.582	0.575	1482.	1.4
486	489.9	5.837	35.012		0.01	27.583	0.576	1482.	1.5
488	492.2	5.822	35.011		0.01	27.585	0.578	1482.	1.7
489	493.8	5.795	35.011		0.01	27.588	0.579	1482.	2.1
492	496.0	5.765	35.010		0.01	27.591	0.580	1482.	2.4
494	498.2	5.752	35.009		0.01	27.592	0.581	1482.	2.6
496	500.1	5.716	35.008		0.01	27.595	0.582	1482.	2.6

SHIP	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH
OC	159	13	17 NOV 1984	1905	39°57.6'N	68°33.5'W	2200

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
515	520.1	5.537	35.000		0.01	27.611	0.593	1481.	0.4
535	540.1	5.530	34.998		0.01	27.610	0.604	1482.	-0.7

SHIP	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH
OC	159	14	17 NOV 1984	2038	40°03.5'N	68°33.3'W	900

DEPTH m	PRESS dbar	TEMP °C	SALIN psu	OXY ml/l	ATN m^{-1}	SIGT gm/cm^3	DYHT A $10m^2/s^2$	S SPD m/s	N cph
2	1.9	14.368	33.765		0.16	25.156	0.000	1503.	0.6
4	3.9	14.372	33.765		0.16	25.156	0.006	1503.	0.6
6	6.3	14.372	33.766		0.16	25.156	0.012	1503.	0.6
8	7.7	14.371	33.766		0.16	25.156	0.016	1503.	0.6
10	10.0	14.369	33.766		0.16	25.157	0.023	1503.	0.6
12	12.0	14.364	33.766		0.16	25.158	0.028	1503.	0.4
14	14.2	14.365	33.766		0.16	25.158	0.034	1503.	-0.3
16	15.9	14.369	33.767		0.16	25.157	0.039	1503.	-0.3
18	18.0	14.374	33.766		0.16	25.156	0.045	1504.	1.1
20	20.3	14.374	33.766		0.16	25.156	0.051	1504.	1.8
22	21.8	14.382	33.767		0.16	25.155	0.056	1504.	2.6
24	24.0	14.399	33.775		0.16	25.157	0.062	1504.	3.2
26	26.3	14.449	33.803		0.16	25.168	0.068	1504.	3.8
28	27.8	14.545	33.847		0.17	25.182	0.073	1504.	4.1
30	30.0	14.580	33.875		0.17	25.196	0.079	1505.	4.2
32	32.1	14.629	33.902		0.17	25.207	0.084	1505.	4.3
34	33.9	14.679	33.938		0.17	25.223	0.089	1505.	4.4
36	36.0	14.691	33.949		0.17	25.230	0.095	1505.	4.7
38	38.0	14.715	33.967		0.17	25.238	0.101	1505.	5.5
40	40.0	14.755	33.997		0.17	25.253	0.106	1505.	6.2
42	42.1	14.813	34.034		0.17	25.269	0.112	1506.	6.6
44	43.9	14.883	34.110		0.15	25.312	0.117	1506.	7.5
46	46.0	14.832	34.172		0.12	25.371	0.122	1506.	9.1
48	48.0	14.742	34.194		0.10	25.407	0.127	1506.	10.4
50	50.0	14.671	34.201		0.09	25.428	0.132	1506.	11.1
52	52.0	14.406	34.245		0.06	25.519	0.138	1505.	11.3
54	54.0	13.903	34.364		0.04	25.716	0.142	1503.	11.2
56	56.0	13.651	34.442		0.03	25.829	0.147	1503.	11.4
58	58.2	13.669	34.478		0.03	25.853	0.151	1503.	11.3
59	59.8	13.761	34.527		0.03	25.872	0.155	1503.	10.7
62	62.2	13.932	34.649		0.03	25.931	0.160	1504.	10.2
63	63.8	14.371	34.910		0.02	26.040	0.163	1506.	10.0
65	66.0	14.729	35.126		0.02	26.129	0.167	1507.	9.9
68	68.2	14.862	35.231		0.02	26.182	0.172	1508.	9.5
69	69.9	14.780	35.320		0.01	26.268	0.175	1507.	8.5
71	72.0	14.566	35.270		0.02	26.276	0.178	1507.	7.5
73	74.0	14.336	35.212		0.02	26.280	0.182	1506.	6.8
75	75.9	14.058	35.181		0.02	26.315	0.185	1505.	6.5
78	78.3	13.821	35.128		0.02	26.324	0.189	1504.	6.4
79	80.1	13.329	35.053		0.02	26.368	0.192	1503.	6.8
81	81.9	13.025	35.000		0.02	26.389	0.195	1502.	6.7
83	84.0	13.061	35.061		0.02	26.428	0.199	1502.	6.5
85	86.1	13.132	35.135		0.02	26.472	0.202	1502.	6.3
87	88.1	13.074	35.144		0.02	26.490	0.205	1502.	5.7
89	90.1	13.025	35.131		0.02	26.490	0.208	1502.	5.2
91	91.6	12.970	35.138		0.02	26.506	0.211	1502.	4.4
93	94.0	12.804	35.120		0.03	26.526	0.214	1501.	3.8
95	96.1	12.655	35.083		0.04	26.526	0.217	1501.	3.7
97	97.9	12.604	35.080		0.04	26.535	0.220	1501.	3.6
99	100.1	12.604	35.083		0.04	26.537	0.223	1501.	3.4

SHIP	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH
OC	159	14	17 NOV 1984	2038	40°03.5'N	68°33.3'W	900

DEPTH m	PRESS dbar	TEMP °C	SALIN psu	OXY ml/l	ATN m^{-1}	SIGT gm/cm^3	DYHT A $10m^2/s^2$	S SPD m/s	N cph
101	101.8	12.632	35.101		0.04	26.546	0.226	1501.	3.6
103	104.0	12.664	35.123		0.04	26.556	0.229	1501.	3.8
105	106.1	12.690	35.139		0.04	26.564	0.232	1501.	4.1
107	108.0	12.777	35.173		0.04	26.572	0.235	1501.	4.2
109	110.1	12.953	35.247		0.04	26.594	0.238	1502.	4.2
111	112.2	13.080	35.286		0.03	26.599	0.241	1503.	4.3
113	113.8	13.152	35.330		0.03	26.618	0.244	1503.	4.4
115	116.1	13.160	35.338		0.04	26.623	0.247	1503.	4.4
117	117.8	13.224	35.365		0.04	26.631	0.249	1503.	4.5
119	120.0	13.303	35.408		0.04	26.648	0.253	1504.	4.5
121	121.9	13.403	35.454		0.03	26.663	0.255	1504.	4.7
123	124.0	13.528	35.509		0.03	26.680	0.258	1505.	5.1
125	126.2	13.609	35.553		0.03	26.698	0.261	1505.	5.3
127	127.9	13.718	35.581		0.02	26.696	0.264	1505.	5.4
129	130.0	13.769	35.646		0.02	26.736	0.266	1506.	5.5
131	131.9	13.865	35.699		0.01	26.757	0.269	1506.	5.3
133	134.0	13.964	35.749		0.01	26.775	0.272	1506.	5.0
135	136.1	13.821	35.733		0.01	26.792	0.274	1506.	4.6
137	137.7	13.488	35.662		0.02	26.807	0.276	1505.	3.8
139	140.0	13.386	35.632		0.02	26.804	0.279	1505.	3.7
141	142.1	13.412	35.640		0.02	26.806	0.282	1505.	3.5
143	143.9	13.390	35.646		0.02	26.814	0.284	1505.	3.3
145	146.2	13.349	35.632		0.02	26.812	0.287	1505.	3.2
147	147.9	13.324	35.665		0.02	26.843	0.289	1504.	3.2
149	150.2	13.256	35.650		0.02	26.845	0.292	1504.	3.0
151	151.8	13.207	35.636		0.02	26.845	0.294	1504.	2.8
153	153.9	13.192	35.634		0.02	26.846	0.297	1504.	2.8
155	155.9	13.163	35.626		0.02	26.846	0.299	1504.	2.7
157	158.2	13.109	35.618		0.02	26.850	0.302	1504.	3.2
159	160.1	13.075	35.616		0.02	26.856	0.304	1504.	3.5
161	161.9	12.998	35.617		0.02	26.872	0.307	1504.	3.7
163	164.1	12.904	35.605		0.02	26.882	0.309	1503.	3.7
165	165.9	12.822	35.602		0.02	26.896	0.311	1503.	3.5
167	168.1	12.776	35.593		0.02	26.898	0.314	1503.	3.2
169	169.9	12.765	35.597		0.02	26.903	0.316	1503.	2.8
171	172.1	12.766	35.598		0.02	26.904	0.319	1503.	2.8
172	173.8	12.755	35.598		0.02	26.906	0.321	1503.	2.7
175	176.0	12.734	35.596		0.02	26.909	0.323	1503.	2.9
176	177.9	12.683	35.594		0.02	26.918	0.326	1503.	2.8
179	180.0	12.594	35.587		0.02	26.929	0.328	1502.	2.9
181	182.2	12.541	35.577		0.02	26.932	0.331	1502.	2.9
182	183.9	12.517	35.575		0.02	26.936	0.333	1502.	2.8
185	186.1	12.508	35.573		0.02	26.936	0.335	1502.	2.5
186	187.8	12.465	35.571		0.02	26.943	0.337	1502.	2.4
189	190.1	12.423	35.566		0.02	26.947	0.340	1502.	2.7
190	191.8	12.400	35.562		0.02	26.949	0.342	1502.	2.9
192	194.1	12.367	35.556		0.02	26.951	0.344	1502.	3.0
194	196.0	12.315	35.554		0.02	26.959	0.346	1502.	3.1
196	198.1	12.229	35.548		0.02	26.971	0.349	1502.	3.3
198	199.8	12.178	35.543		0.02	26.977	0.351	1501.	3.4

SHIP	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH
OC	159	14	17 NOV 1984	2038	40°03.5'N	68°33.3'W	900

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
201	202.2	12.119	35.532		0.02	26.980	0.353	1501.	3.6
202	203.8	12.050	35.526		0.01	26.989	0.355	1501.	3.5
204	205.9	12.005	35.525		0.02	26.997	0.358	1501.	3.3
206	208.2	11.891	35.510		0.01	27.007	0.360	1500.	3.1
208	209.9	11.792	35.497		0.01	27.015	0.362	1500.	2.8
210	212.0	11.772	35.493		0.01	27.016	0.364	1500.	2.4
212	213.9	11.759	35.490		0.01	27.017	0.366	1500.	1.9
214	216.1	11.752	35.489		0.01	27.017	0.369	1500.	1.3
216	217.9	11.751	35.489		0.01	27.017	0.371	1500.	0.9
218	219.9	11.747	35.489		0.01	27.018	0.373	1500.	1.0
220	222.0	11.741	35.487		0.01	27.018	0.375	1500.	1.1
222	224.0	11.737	35.487		0.01	27.018	0.377	1500.	1.2
224	225.8	11.719	35.483		0.01	27.019	0.379	1500.	1.3
226	228.1	11.700	35.482		0.02	27.021	0.382	1500.	1.3
228	230.0	11.694	35.481		0.02	27.022	0.384	1500.	1.4
230	232.3	11.687	35.481		0.02	27.023	0.386	1500.	1.4
232	234.0	11.668	35.480		0.02	27.026	0.388	1500.	1.5
234	236.0	11.658	35.476		0.02	27.024	0.390	1500.	1.8
236	237.9	11.643	35.475		0.02	27.027	0.392	1500.	2.0
238	240.3	11.627	35.473		0.02	27.028	0.395	1500.	2.3
240	241.9	11.592	35.469		0.01	27.032	0.397	1500.	2.5
242	243.9	11.545	35.466		0.01	27.039	0.399	1500.	2.8
244	246.1	11.500	35.461		0.01	27.043	0.401	1500.	2.9
246	248.0	11.450	35.457		0.01	27.049	0.403	1500.	2.9
248	250.1	11.408	35.452		0.01	27.053	0.405	1499.	2.9
250	251.8	11.344	35.447		0.01	27.061	0.407	1499.	2.7
252	254.1	11.289	35.438		0.01	27.064	0.410	1499.	2.7
254	255.9	11.230	35.427		0.01	27.066	0.412	1499.	2.7
256	258.0	11.176	35.422		0.01	27.072	0.414	1499.	2.8
258	260.0	11.165	35.419		0.01	27.072	0.416	1499.	2.9
260	262.0	11.120	35.418		0.01	27.080	0.418	1499.	3.0
262	263.9	11.042	35.411		0.01	27.088	0.420	1498.	3.0
264	266.2	10.922	35.390		0.01	27.094	0.422	1498.	2.9
266	268.0	10.857	35.383		0.01	27.100	0.424	1498.	2.8
268	270.3	10.824	35.379		0.01	27.103	0.426	1498.	2.6
270	271.8	10.792	35.376		0.01	27.106	0.428	1498.	2.5
272	274.3	10.789	35.375		0.01	27.106	0.430	1498.	2.4
274	275.9	10.779	35.376		0.01	27.109	0.432	1498.	2.4
276	278.1	10.728	35.371		0.01	27.114	0.434	1497.	2.5
278	280.0	10.646	35.362		0.01	27.122	0.436	1497.	2.5
280	282.1	10.596	35.353		0.01	27.124	0.438	1497.	2.5
282	284.0	10.548	35.348		0.01	27.128	0.440	1497.	2.4
284	286.3	10.520	35.344		0.01	27.130	0.442	1497.	2.3
285	287.8	10.488	35.342		0.01	27.134	0.444	1497.	2.3
288	290.1	10.464	35.337		0.01	27.134	0.446	1497.	2.4
290	292.2	10.439	35.336		0.01	27.138	0.448	1497.	2.5
291	293.8	10.399	35.330		0.01	27.141	0.450	1496.	2.6
294	296.0	10.331	35.328		0.01	27.151	0.452	1496.	2.6
295	297.8	10.256	35.311		0.01	27.151	0.454	1496.	2.6
297	300.0	10.212	35.306		0.01	27.155	0.456	1496.	2.6

SHIP	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH
OC	159	14	17 NOV 1984	2038	40°03.5'N	68°33.3'W	900

DEPTH m	PRESS dbar	TEMP °C	SALIN psu	OXY ml/l	ATN m^{-1}	SIGT gm/cm^3	DYHT A $10m^2/s^2$	S SPD m/s	N cph
299	302.0	10.191	35.312		0.01	27.163	0.458	1496.	2.8
301	304.0	10.168	35.303		0.01	27.160	0.460	1496.	2.7
303	306.1	10.155	35.304		0.01	27.163	0.462	1496.	2.7
305	308.0	10.079	35.299		0.01	27.172	0.464	1496.	2.7
307	310.0	9.939	35.286		0.01	27.186	0.465	1495.	2.6
309	312.1	9.869	35.261		0.01	27.178	0.467	1495.	2.6
311	313.7	9.817	35.257		0.01	27.185	0.469	1495.	2.5
313	316.1	9.800	35.256		0.01	27.187	0.471	1495.	2.5
315	317.9	9.791	35.258		0.01	27.189	0.473	1495.	2.4
317	320.1	9.768	35.257		0.01	27.193	0.475	1495.	2.5
319	322.1	9.747	35.258		0.01	27.197	0.477	1495.	2.5
321	323.9	9.683	35.262		0.01	27.211	0.478	1494.	2.7
323	326.1	9.628	35.241		0.01	27.204	0.480	1494.	2.8
325	327.8	9.603	35.239		0.01	27.207	0.482	1494.	2.9
327	330.2	9.532	35.233		0.01	27.214	0.484	1494.	2.9
329	332.1	9.411	35.218		0.01	27.222	0.486	1493.	2.9
331	333.8	9.361	35.218		0.01	27.230	0.487	1493.	2.9
333	336.0	9.299	35.211		0.01	27.235	0.489	1493.	2.8
335	337.9	9.265	35.206		0.01	27.237	0.491	1493.	2.7
337	340.0	9.248	35.206		0.01	27.239	0.493	1493.	2.5
339	342.3	9.231	35.205		0.01	27.242	0.495	1493.	2.4
341	343.8	9.206	35.206		0.01	27.246	0.496	1493.	2.3
343	345.9	9.174	35.206		0.01	27.252	0.498	1493.	2.2
345	348.0	9.143	35.204		0.01	27.255	0.500	1493.	2.1
347	350.0	9.119	35.200		0.01	27.256	0.502	1493.	1.8
349	352.1	9.106	35.200		0.01	27.258	0.504	1493.	1.5
351	354.3	9.102	35.199		0.01	27.258	0.506	1493.	1.1
353	355.9	9.097	35.198		0.01	27.258	0.507	1493.	0.8
355	358.1	9.097	35.198		0.01	27.258	0.509	1493.	0.6
357	360.0	9.095	35.198		0.01	27.258	0.511	1493.	0.8
359	361.9	9.096	35.198		0.01	27.258	0.512	1493.	1.2
361	364.0	9.101	35.199		0.01	27.258	0.514	1493.	1.6
363	366.1	9.098	35.199		0.01	27.259	0.516	1493.	1.9
365	367.7	9.077	35.200		0.01	27.263	0.517	1493.	2.1
367	370.1	9.028	35.196		0.02	27.267	0.519	1493.	2.2
369	371.9	8.988	35.193		0.01	27.272	0.521	1493.	2.2
371	374.0	8.967	35.192		0.02	27.274	0.523	1492.	2.1
373	375.9	8.949	35.191		0.01	27.276	0.524	1492.	1.9
375	378.0	8.935	35.190		0.02	27.278	0.526	1492.	1.7
377	380.0	8.927	35.189		0.02	27.278	0.528	1492.	1.6
379	382.0	8.916	35.188		0.02	27.280	0.530	1492.	1.7
381	384.2	8.905	35.187		0.02	27.280	0.532	1492.	2.0
382	385.8	8.881	35.186		0.02	27.284	0.533	1492.	2.1
385	388.1	8.867	35.185		0.02	27.285	0.535	1492.	2.3
387	390.0	8.831	35.185		0.02	27.290	0.536	1492.	2.6
388	391.7	8.776	35.185		0.02	27.299	0.538	1492.	3.0
391	394.1	8.738	35.173		0.02	27.296	0.540	1492.	3.2
392	395.7	8.707	35.173		0.02	27.301	0.541	1492.	3.4
395	398.0	8.601	35.170		0.01	27.315	0.543	1491.	3.4
396	399.9	8.467	35.158		0.01	27.327	0.545	1491.	3.2

SHIP	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH
OC	159	14	17 NOV 1984	2038	40°03.5'N	68°33.3'W	900

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	402.1	8.317	35.132		0.01	27.330	0.547	1490.	3.1
401	404.0	8.277	35.132		0.01	27.336	0.548	1490.	2.8
402	405.9	8.267	35.131		0.01	27.336	0.550	1490.	2.3
404	408.0	8.260	35.131		0.01	27.337	0.551	1490.	2.0
406	409.9	8.250	35.130		0.01	27.339	0.553	1490.	2.0
409	412.1	8.220	35.130		0.01	27.343	0.555	1490.	2.0
410	413.9	8.193	35.126		0.01	27.344	0.556	1490.	2.2
412	415.9	8.168	35.126		0.01	27.348	0.558	1490.	2.5
415	418.3	8.147	35.124		0.01	27.350	0.560	1490.	2.8
416	419.8	8.106	35.123		0.01	27.355	0.561	1490.	3.0
418	422.1	8.065	35.121		0.01	27.360	0.563	1490.	3.2
420	423.8	7.974	35.117		0.01	27.370	0.564	1489.	3.2
422	426.1	7.904	35.112		0.01	27.376	0.566	1489.	3.1
424	427.9	7.853	35.114		0.01	27.386	0.567	1489.	3.0
426	429.8	7.830	35.110		0.01	27.386	0.568	1489.	3.1
428	432.1	7.809	35.110		0.01	27.389	0.570	1489.	3.0
430	433.9	7.790	35.110		0.01	27.392	0.571	1489.	3.1
432	436.2	7.720	35.104		0.01	27.398	0.573	1489.	3.3
434	437.9	7.634	35.108		0.01	27.413	0.574	1488.	3.5
436	440.2	7.567	35.098		0.01	27.415	0.576	1488.	3.6
438	441.6	7.498	35.094		0.01	27.422	0.577	1488.	3.7
440	444.0	7.410	35.091		0.01	27.432	0.579	1488.	3.7
442	446.2	7.355	35.089		0.01	27.439	0.580	1487.	3.6
444	448.1	7.290	35.089		0.01	27.448	0.582	1487.	3.6
446	450.1	7.203	35.083		0.01	27.456	0.583	1487.	3.4
448	451.8	7.159	35.083		0.01	27.462	0.584	1487.	3.2
450	454.0	7.086	35.079		0.01	27.469	0.586	1487.	3.0
452	456.1	7.031	35.075		0.01	27.474	0.587	1486.	2.7
454	457.8	7.001	35.071		0.01	27.475	0.588	1486.	2.5
456	460.0	6.975	35.071		0.02	27.479	0.590	1486.	2.4
458	462.0	6.953	35.070		0.02	27.481	0.591	1486.	2.3
460	463.9	6.930	35.070		0.02	27.484	0.593	1486.	2.4
462	466.0	6.898	35.069		0.02	27.488	0.594	1486.	2.9
464	468.1	6.855	35.067		0.02	27.492	0.595	1486.	3.2
466	470.0	6.833	35.066		0.02	27.494	0.596	1486.	3.3
468	471.8	6.785	35.068		0.02	27.502	0.598	1486.	3.4
470	474.0	6.625	35.064		0.01	27.521	0.599	1485.	3.4
472	476.3	6.501	35.047		0.01	27.525	0.600	1485.	3.4
474	478.0	6.486	35.046		0.01	27.526	0.602	1485.	3.4
476	479.8	6.457	35.046		0.01	27.530	0.603	1484.	3.2
478	482.2	6.387	35.046		0.02	27.539	0.604	1484.	3.1
480	484.2	6.319	35.042		0.02	27.544	0.605	1484.	3.2
482	486.0	6.252	35.038		0.02	27.550	0.606	1484.	3.2
484	488.0	6.188	35.035		0.02	27.556	0.608	1484.	3.1
486	489.9	6.134	35.033		0.02	27.562	0.609	1483.	3.0
488	491.9	6.092	35.031		0.02	27.566	0.610	1483.	2.8
490	493.9	6.056	35.031		0.02	27.570	0.611	1483.	2.6
492	496.3	6.003	35.031		0.01	27.577	0.612	1483.	2.4
494	498.0	5.974	35.027		0.01	27.577	0.613	1483.	2.1
496	500.1	5.966	35.026		0.01	27.578	0.615	1483.	1.9

SHIP	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH
OC	159	14	17 NOV 1984	2038	40°03.5'N	68°33.3'W	900

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
515	520.0	5.724	35.022		0.01	27.605	0.626	1482.	2.2
535	539.8	5.624	35.014		0.01	27.611	0.636	1482.	0.7

SHIP	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH
OC	159	15	17 NOV 1984	2233	40°08.3'N	68°35.6'W	193

DEPTH m	PRESS dbar	TEMP °C	SALIN psu	OXY ml/l	ATN m^{-1}	SIGT gm/cm^3	DYHT A $10m^2/s^2$	S SPD m/s	N cph
3	2.6	12.007	32.898		0.18	24.956	0.000	1494.	-0.7
4	4.3	12.006	32.899		0.17	24.957	0.005	1494.	-0.7
6	6.1	12.001	32.898		0.16	24.957	0.010	1494.	-0.7
8	8.0	12.008	32.894		0.16	24.953	0.016	1494.	-0.7
10	10.0	12.016	32.897		0.16	24.954	0.022	1495.	-0.7
12	12.0	12.021	32.898		0.15	24.954	0.028	1495.	1.0
14	14.1	12.034	32.901		0.16	24.954	0.034	1495.	1.6
16	16.0	12.065	32.914		0.16	24.958	0.040	1495.	1.6
18	18.0	12.141	32.925		0.16	24.952	0.046	1495.	1.7
20	20.1	12.151	32.947		0.16	24.967	0.052	1495.	0.6
22	22.0	12.137	32.945		0.16	24.969	0.058	1495.	0.6
24	23.8	12.130	32.932		0.16	24.960	0.063	1495.	1.4
26	26.1	12.123	32.938		0.16	24.966	0.070	1495.	2.1
28	28.0	12.120	32.908		0.16	24.943	0.076	1495.	2.5
30	29.9	12.276	32.972		0.16	24.963	0.082	1496.	3.1
31	31.7	12.407	33.028		0.16	24.982	0.087	1496.	3.7
34	34.1	12.459	33.053		0.16	24.991	0.094	1497.	4.1
36	36.0	12.614	33.103		0.16	25.000	0.100	1497.	4.8
38	38.0	12.710	33.135		0.16	25.006	0.106	1498.	5.0
40	40.0	12.829	33.191		0.16	25.026	0.112	1498.	6.6
42	41.9	13.147	33.285		0.15	25.036	0.117	1499.	8.4
44	44.1	13.382	33.408		0.13	25.084	0.124	1500.	9.6
46	46.0	13.780	33.530		0.11	25.097	0.129	1502.	10.6
47	47.8	14.192	33.870		0.06	25.274	0.134	1504.	11.3
50	50.0	14.289	34.058		0.05	25.399	0.140	1504.	12.1
52	52.0	13.959	34.036		0.05	25.452	0.145	1503.	12.4
54	54.0	13.419	34.000		0.04	25.535	0.150	1501.	12.1
56	56.1	13.071	34.013		0.04	25.614	0.155	1500.	11.0
58	58.0	12.291	34.029		0.04	25.780	0.159	1498.	10.0
60	60.0	11.743	33.966		0.04	25.835	0.164	1496.	9.0
62	62.0	11.561	33.920		0.05	25.833	0.168	1495.	7.7
64	64.0	11.365	33.892		0.05	25.847	0.172	1494.	6.2
66	66.3	11.337	33.888		0.05	25.849	0.177	1494.	4.3
68	68.1	11.293	33.886		0.05	25.856	0.181	1494.	3.7
69	70.0	11.083	33.860		0.06	25.873	0.185	1493.	3.8
71	71.9	10.790	33.810		0.06	25.886	0.189	1492.	3.7
73	74.1	10.720	33.798		0.06	25.889	0.194	1492.	4.1
75	75.8	10.704	33.801		0.06	25.895	0.198	1492.	4.7
77	78.1	10.704	33.807		0.06	25.900	0.202	1492.	5.5
80	80.1	10.702	33.820		0.06	25.910	0.207	1492.	6.4
82	82.2	10.695	33.873		0.06	25.953	0.211	1492.	7.1
83	83.9	10.784	33.939		0.05	25.988	0.214	1493.	7.7
85	86.0	10.891	34.039		0.05	26.047	0.219	1493.	7.9
87	88.0	10.972	34.123		0.05	26.098	0.223	1494.	8.2
89	90.1	11.007	34.168		0.05	26.127	0.227	1494.	8.3
91	92.0	11.025	34.225		0.05	26.168	0.230	1494.	8.0
93	94.1	11.069	34.258		0.05	26.186	0.234	1494.	7.4
95	95.9	11.364	34.428		0.05	26.264	0.237	1496.	7.8
97	98.0	11.576	34.536		0.05	26.309	0.241	1496.	7.9
99	99.9	11.904	34.609		0.04	26.305	0.244	1498.	7.7

SHIP	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH
OC	159	15	17 NOV 1984	2233	40°08.3'N	68°35.6'W	193

DEPTH m	PRESS dbar	TEMP °C	SALIN psu	OXY ml/l	ATN m^{-1}	SIGT gm/cm^3	DYHT A $10m^2/s^2$	S SPD m/s	N cph
101	102.0	12.627	34.792		0.04	26.306	0.248	1500.	7.3
103	103.9	13.072	35.080		0.03	26.441	0.251	1502.	6.5
105	106.0	13.232	35.127		0.03	26.445	0.255	1503.	6.2
107	108.0	13.365	35.178		0.03	26.457	0.258	1503.	6.0
109	110.0	13.551	35.234		0.03	26.463	0.261	1504.	5.4
111	112.0	13.800	35.280		0.03	26.447	0.264	1505.	4.1
113	114.3	14.230	35.466		0.03	26.499	0.268	1507.	4.1
115	116.0	14.202	35.470		0.03	26.508	0.270	1507.	4.1
117	117.9	14.219	35.477		0.03	26.510	0.273	1507.	3.9
119	120.3	14.229	35.493		0.03	26.520	0.277	1507.	3.6
121	122.0	14.221	35.494		0.03	26.523	0.279	1507.	2.8
123	124.1	14.167	35.492		0.03	26.533	0.283	1507.	2.8
125	126.0	14.059	35.460		0.03	26.531	0.286	1506.	2.9
127	128.0	14.068	35.463		0.03	26.531	0.289	1506.	3.1
129	130.2	14.102	35.484		0.03	26.540	0.292	1507.	3.1
131	131.8	14.140	35.508		0.03	26.551	0.295	1507.	4.0
133	134.1	14.210	35.535		0.03	26.557	0.298	1507.	4.8
135	136.0	14.303	35.584		0.03	26.574	0.301	1507.	5.2
137	138.1	14.444	35.610		0.03	26.565	0.304	1508.	5.2
139	139.8	14.593	35.740		0.03	26.632	0.306	1509.	5.1
141	142.0	14.639	35.789		0.03	26.661	0.310	1509.	4.8
143	144.0	14.639	35.787		0.03	26.659	0.312	1509.	4.2
145	146.3	14.634	35.783		0.03	26.657	0.316	1509.	3.5
147	148.0	14.629	35.786		0.03	26.661	0.318	1509.	2.0
149	150.1	14.649	35.791		0.03	26.660	0.321	1509.	1.4
151	152.1	14.656	35.793		0.03	26.660	0.324	1509.	1.9
153	153.7	14.624	35.785		0.03	26.661	0.326	1509.	2.0
155	156.0	14.569	35.780		0.03	26.669	0.329	1509.	2.0
157	158.0	14.548	35.772		0.03	26.668	0.332	1509.	1.8
159	159.9	14.514	35.778		0.03	26.679	0.335	1509.	1.5
161	161.9	14.525	35.773		0.03	26.673	0.338	1509.	1.5
163	164.1	14.510	35.774		0.03	26.677	0.341	1509.	1.8
164	165.8	14.534	35.769		0.03	26.668	0.343	1509.	2.4
167	168.4	14.539	35.772		0.03	26.669	0.347	1509.	3.0
169	170.2	14.519	35.783		0.03	26.682	0.349	1509.	3.9
170	171.2	14.517	35.802		0.04	26.697	0.351	1509.	4.7
171	172.0	14.486	35.806		0.04	26.707	0.352	1509.	5.6
172	173.0	14.402	35.800		0.05	26.720	0.353	1509.	6.4
173	174.0	14.211	35.765		0.05	26.735	0.355	1508.	6.6
174	175.0	14.184	35.775		0.05	26.748	0.356	1508.	6.6
175	176.0	14.044	35.754		0.05	26.761	0.357	1507.	6.6
175	176.9	13.999	35.757		0.06	26.774	0.358	1507.	6.6
177	178.0	13.870	35.740		0.06	26.788	0.360	1507.	6.5
178	179.0	13.595	35.684		0.06	26.802	0.361	1506.	6.7
178	179.9	13.464	35.664		0.06	26.813	0.362	1505.	6.9
180	181.0	13.426	35.672		0.06	26.827	0.364	1505.	7.0
181	182.0	13.291	35.646		0.06	26.835	0.365	1505.	6.6
182	183.0	13.172	35.653		0.06	26.865	0.366	1505.	6.3
183	184.0	13.095	35.657		0.06	26.884	0.367	1504.	5.8
183	185.0	13.038	35.652		0.06	26.891	0.369	1504.	5.2

SHIP	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH
OC	159	15	17 NOV 1984	2233	40°08.3'N	68°35.6'W	193

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
185	186.1	12.966	35.617		0.06	26.879	0.370	1504.	4.4
185	187.0	12.931	35.631		0.06	26.896	0.371	1504.	4.4
187	188.1	12.877	35.607		0.06	26.888	0.372	1504.	4.4
187	188.9	12.804	35.597		0.06	26.895	0.373	1503.	4.4
188	189.9	12.783	35.593		0.06	26.897	0.375	1503.	4.4

SHIP	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH
OC	159	16	17 NOV 1984	2341	40°12.9'N	68°37.8'W	148

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
8	7.6	11.724	32.609		0.13	24.784	0.000	1493.	-0.4
10	10.0	11.721	32.609		0.13	24.784	0.007	1493.	-0.4
12	12.0	11.723	32.608		0.13	24.784	0.014	1493.	-0.4
14	13.8	11.724	32.609		0.13	24.784	0.019	1493.	-0.4
16	16.3	11.725	32.609		0.13	24.784	0.027	1493.	-0.4
18	18.1	11.727	32.610		0.13	24.784	0.033	1493.	-0.5
20	19.7	11.724	32.609		0.13	24.784	0.038	1493.	0.6
22	22.0	11.720	32.608		0.13	24.784	0.046	1493.	0.7
24	24.2	11.724	32.606		0.13	24.782	0.052	1493.	1.0
26	26.1	11.735	32.610		0.13	24.783	0.058	1493.	1.6
28	27.8	11.736	32.618		0.13	24.789	0.064	1494.	2.4
30	29.9	11.738	32.614		0.13	24.785	0.070	1494.	3.0
32	32.4	11.761	32.625		0.13	24.790	0.078	1494.	3.6
34	34.3	11.818	32.654		0.12	24.802	0.084	1494.	4.1
36	36.1	11.875	32.693		0.12	24.822	0.090	1494.	4.6
38	38.0	11.912	32.714		0.12	24.831	0.096	1494.	5.9
40	39.9	11.977	32.755		0.12	24.851	0.102	1495.	6.7
42	42.2	12.077	32.797		0.11	24.865	0.109	1495.	7.3
44	44.0	12.323	32.898		0.10	24.896	0.114	1496.	9.3
46	46.0	12.644	33.112		0.10	25.001	0.120	1498.	10.8
48	47.9	12.772	33.166		0.09	25.018	0.126	1498.	11.6
50	50.0	13.163	33.323		0.06	25.062	0.132	1500.	12.1
52	52.0	13.183	33.708		0.06	25.356	0.138	1500.	11.9
54	54.1	12.098	33.538		0.07	25.436	0.143	1496.	11.2
56	56.1	11.334	33.401		0.07	25.471	0.148	1494.	10.4
57	57.9	10.899	33.344		0.06	25.504	0.153	1492.	9.1
59	60.0	10.750	33.354		0.07	25.539	0.158	1491.	6.8
61	62.0	10.761	33.366		0.07	25.546	0.163	1492.	5.9
64	64.2	10.762	33.408		0.07	25.579	0.168	1492.	5.8
65	66.0	10.735	33.431		0.07	25.601	0.172	1492.	5.7
68	68.1	10.732	33.430		0.07	25.601	0.177	1492.	5.4
69	69.9	10.764	33.440		0.06	25.603	0.182	1492.	5.2
71	71.9	10.467	33.465		0.07	25.674	0.186	1491.	5.3
73	73.8	10.263	33.413		0.07	25.669	0.191	1490.	5.8
75	75.9	10.318	33.424		0.06	25.668	0.196	1490.	6.1
77	77.9	10.425	33.459		0.06	25.677	0.200	1491.	6.1
79	80.0	10.511	33.547		0.06	25.731	0.205	1491.	6.0
81	82.0	10.486	33.614		0.06	25.787	0.210	1491.	6.9
83	84.0	10.597	33.631		0.06	25.781	0.214	1492.	7.4
85	86.1	10.876	33.719		0.05	25.801	0.219	1493.	7.5
87	88.1	11.178	33.834		0.05	25.836	0.223	1494.	7.2
89	89.8	11.707	34.085		0.05	25.934	0.227	1496.	7.2
91	92.1	11.793	34.129		0.04	25.952	0.231	1497.	7.7
93	93.7	11.861	34.156		0.04	25.961	0.235	1497.	7.8
95	95.9	11.920	34.189		0.04	25.975	0.239	1497.	7.8
98	98.4	11.937	34.270		0.04	26.035	0.244	1497.	7.8
99	100.0	11.865	34.340		0.04	26.103	0.247	1497.	8.5
101	101.9	12.068	34.426		0.04	26.131	0.251	1498.	8.8
103	104.0	12.201	34.515		0.04	26.175	0.255	1499.	8.9
105	106.0	12.180	34.595		0.04	26.241	0.259	1499.	8.3

SHIP	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH
OC	159	16	17 NOV 1984	2341	40°12.9'N	68°37.8'W	148

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
107	108.0	12.079	34.654		0.04	26.306	0.262	1498.	7.6
109	109.8	12.161	34.711		0.04	26.335	0.265	1499.	6.7
111	111.7	12.183	34.739		0.04	26.352	0.269	1499.	5.4
113	114.1	12.194	34.749		0.04	26.357	0.273	1499.	3.9
115	115.7	12.201	34.754		0.04	26.360	0.275	1499.	2.8
117	118.2	12.245	34.757		0.05	26.354	0.280	1499.	3.0
119	120.1	12.419	34.775		0.04	26.334	0.283	1500.	3.7
121	122.0	12.639	34.863		0.04	26.359	0.286	1501.	4.7
123	123.9	12.761	34.917		0.04	26.377	0.289	1501.	5.4
125	126.1	12.939	35.008		0.04	26.412	0.293	1502.	6.2
127	128.0	13.653	35.234		0.03	26.441	0.296	1505.	6.7
129	130.1	14.036	35.378		0.03	26.473	0.299	1506.	6.8
130	131.3	14.152	35.435		0.03	26.492	0.301	1507.	6.9
131	132.0	14.319	35.495		0.03	26.503	0.302	1507.	6.8
132	133.0	14.414	35.542		0.03	26.519	0.304	1508.	6.8
133	134.0	14.448	35.571		0.03	26.534	0.305	1508.	7.5
134	135.0	14.492	35.602		0.03	26.548	0.307	1508.	8.1
135	136.0	14.538	35.625		0.03	26.556	0.308	1508.	8.2
136	137.1	14.557	35.663		0.03	26.581	0.310	1508.	8.1
137	138.0	14.441	35.705		0.04	26.638	0.311	1508.	7.9
138	139.0	14.230	35.670		0.04	26.657	0.313	1507.	7.5
139	140.0	14.198	35.659		0.04	26.656	0.314	1507.	6.8
140	140.9	14.150	35.652		0.04	26.660	0.315	1507.	6.8
141	142.0	14.073	35.646		0.05	26.672	0.317	1507.	6.8
142	143.0	13.991	35.632		0.05	26.678	0.318	1507.	6.8
143	144.0	13.947	35.622		0.05	26.680	0.320	1506.	6.8

SHIP	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH
OC	159	17	18 NOV 1984	0045	40°16.5'N	68°39.2'W	110

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	1.6	11.832	32.532		0.13	24.704	0.000	1493.	0.8
4	4.3	11.835	32.531		0.12	24.703	0.009	1493.	0.8
6	5.9	11.837	32.531		0.12	24.703	0.014	1493.	0.8
8	7.9	11.838	32.531		0.12	24.703	0.020	1493.	0.8
11	11.2	11.840	32.531		0.12	24.702	0.031	1493.	0.8
14	14.0	11.838	32.534		0.12	24.705	0.040	1494.	0.8
16	16.4	11.838	32.535		0.12	24.706	0.048	1494.	0.8
17	17.5	11.839	32.535		0.12	24.705	0.051	1494.	0.8
20	20.1	11.838	32.535		0.12	24.706	0.060	1494.	0.7
22	22.2	11.839	32.534		0.12	24.705	0.066	1494.	0.6
24	24.3	11.841	32.535		0.12	24.705	0.074	1494.	0.9
26	26.6	11.840	32.536		0.12	24.706	0.081	1494.	1.4
28	28.3	11.841	32.536		0.12	24.706	0.086	1494.	1.9
30	30.0	11.840	32.537		0.12	24.707	0.092	1494.	2.5
32	31.8	11.836	32.541		0.12	24.711	0.098	1494.	2.9
34	34.3	11.831	32.550		0.12	24.719	0.106	1494.	3.5
35	35.6	11.828	32.559		0.12	24.726	0.110	1494.	4.0
37	37.7	11.823	32.572		0.12	24.737	0.117	1494.	4.6
40	40.1	11.821	32.584		0.12	24.747	0.124	1494.	5.4
42	42.4	11.823	32.609		0.11	24.766	0.132	1494.	6.5
44	44.3	11.825	32.637		0.11	24.787	0.138	1494.	7.7
46	46.1	11.836	32.683		0.11	24.821	0.143	1494.	8.6
48	48.1	11.892	32.766		0.10	24.875	0.150	1495.	9.4
50	50.1	12.077	32.925		0.08	24.964	0.156	1495.	10.2
52	51.9	12.959	33.268		0.07	25.060	0.161	1499.	10.4
54	54.0	13.511	33.459		0.06	25.097	0.167	1501.	10.1
56	56.0	13.608	33.559		0.06	25.155	0.173	1501.	9.5
58	58.0	12.893	33.532		0.06	25.277	0.178	1499.	9.2
59	59.9	12.240	33.375		0.06	25.282	0.183	1497.	9.0
62	62.3	12.001	33.341		0.06	25.301	0.190	1496.	9.2
64	64.1	11.993	33.374		0.07	25.329	0.195	1496.	9.0
65	66.0	11.803	33.466		0.08	25.435	0.199	1495.	8.5
67	68.0	11.593	33.488		0.08	25.491	0.205	1495.	8.4
69	70.0	11.392	33.517		0.08	25.551	0.209	1494.	8.2
71	71.9	11.298	33.527		0.08	25.576	0.214	1494.	7.8
73	74.1	11.264	33.524		0.08	25.579	0.219	1494.	7.0
75	76.0	11.203	33.525		0.08	25.591	0.224	1494.	6.5
77	78.1	10.996	33.540		0.08	25.640	0.229	1493.	6.6
79	79.9	10.659	33.530		0.07	25.692	0.233	1492.	7.5
81	82.0	10.534	33.504		0.07	25.693	0.238	1491.	8.6
83	83.9	10.531	33.525		0.07	25.710	0.242	1491.	9.3
85	86.0	10.741	33.662		0.06	25.780	0.247	1492.	10.0
87	88.1	10.930	33.834		0.05	25.880	0.252	1493.	10.5
89	90.0	11.413	34.081		0.05	25.986	0.256	1495.	10.9
91	92.0	11.637	34.195		0.04	26.033	0.260	1496.	11.0
93	93.7	12.021	34.438		0.04	26.149	0.263	1498.	10.5
95	96.1	12.096	34.508		0.05	26.189	0.267	1498.	9.8
97	97.3	12.165	34.568		0.05	26.223	0.270	1498.	8.8
97	98.0	12.176	34.578		0.05	26.228	0.271	1499.	7.9
98	99.0	12.181	34.586		0.05	26.233	0.273	1499.	6.2

SHIP	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH
OC	159	17	18 NOV 1984	0045	40°16.5'N	68°39.2'W	110

DEPTH m	PRESS dbsr	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	100.0	12.210	34.602		0.05	26.240	0.274	1499.	5.6
100	101.0	12.252	34.623		0.05	26.248	0.276	1499.	5.2
101	102.0	12.280	34.646		0.05	26.261	0.278	1499.	5.2
102	102.9	12.303	34.664		0.05	26.270	0.280	1499.	5.1
103	104.0	12.325	34.680		0.05	26.278	0.282	1499.	5.1
104	105.0	12.360	34.701		0.05	26.288	0.283	1499.	5.1
105	106.1	12.371	34.709		0.05	26.292	0.285	1499.	5.1
106	106.8	12.387	34.714		0.05	26.293	0.286	1500.	5.1

SHIP	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH
OC	159	18	18 NOV 1984	0156	40°22.1'N	68°41.1'W	90

DEPTH m	PRESS dbar	TEMP °C	SALIN psu	OXY ml/l	ATN m^{-1}	SIGT gm/cm^3	DYHT A $10m^2/s^2$	S SPD m/s	N cph
4	3.9	11.921	32.545		0.09	24.698	0.000	1494.	0.1
6	6.1	11.924	32.544		0.09	24.697	0.007	1494.	0.1
8	8.1	11.924	32.545		0.09	24.697	0.014	1494.	0.1
10	9.8	11.923	32.545		0.09	24.697	0.019	1494.	0.1
12	12.0	11.923	32.545		0.09	24.697	0.026	1494.	0.1
14	13.9	11.922	32.545		0.09	24.698	0.033	1494.	-0.3
16	16.0	11.922	32.545		0.09	24.698	0.039	1494.	-0.4
18	18.1	11.924	32.545		0.09	24.698	0.046	1494.	-0.5
20	19.9	11.927	32.544		0.09	24.696	0.052	1494.	-0.7
22	22.0	11.928	32.544		0.09	24.696	0.059	1494.	-0.6
23	23.6	11.927	32.544		0.09	24.696	0.064	1494.	-0.4
26	26.1	11.926	32.543		0.08	24.696	0.072	1494.	0.2
28	28.7	11.929	32.542		0.09	24.694	0.080	1494.	0.5
30	29.9	11.930	32.546		0.09	24.697	0.084	1494.	0.6
32	32.2	11.932	32.546		0.10	24.697	0.092	1494.	0.6
34	33.8	11.931	32.546		0.09	24.697	0.097	1494.	0.6
36	35.9	11.932	32.546		0.09	24.697	0.104	1494.	0.6
38	38.1	11.929	32.545		0.09	24.697	0.111	1494.	0.4
39	39.7	11.926	32.545		0.09	24.697	0.116	1494.	0.5
42	42.1	11.926	32.545		0.09	24.697	0.124	1494.	0.5
44	44.0	11.931	32.546		0.09	24.697	0.130	1494.	0.8
45	45.7	11.932	32.547		0.09	24.698	0.136	1494.	1.5
48	48.1	11.938	32.548		0.09	24.698	0.143	1494.	3.4
50	50.0	11.942	32.549		0.09	24.698	0.149	1495.	7.3
52	52.0	11.961	32.558		0.10	24.701	0.156	1495.	9.5
54	54.1	12.040	32.593		0.10	24.713	0.163	1495.	10.7
55	55.8	12.295	32.757		0.10	24.792	0.168	1496.	11.4
58	58.2	13.565	33.503		0.09	25.120	0.175	1501.	11.4
59	59.8	13.880	33.671		0.09	25.186	0.180	1502.	11.1
62	62.1	13.891	33.693		0.10	25.200	0.186	1503.	10.1
63	63.8	13.901	33.703		0.10	25.206	0.191	1503.	8.5
66	66.1	13.941	33.735		0.11	25.222	0.197	1503.	6.0
67	67.8	14.029	33.799		0.11	25.254	0.202	1503.	5.8
70	70.3	13.948	33.820		0.12	25.286	0.209	1503.	6.2
71	71.2	13.935	33.825		0.12	25.293	0.211	1503.	6.5
71	72.0	13.874	33.819		0.13	25.302	0.213	1503.	6.8
72	73.0	13.782	33.821		0.13	25.322	0.216	1503.	6.6
73	74.1	13.718	33.832		0.13	25.343	0.219	1502.	6.4
74	74.9	13.697	33.840		0.12	25.354	0.221	1502.	5.9
75	76.0	13.688	33.855		0.12	25.368	0.224	1502.	5.2
76	77.0	13.699	33.859		0.12	25.369	0.227	1502.	4.3
77	77.9	13.701	33.866		0.12	25.374	0.229	1502.	3.2
78	79.0	13.710	33.866		0.12	25.372	0.232	1502.	2.2
79	80.1	13.711	33.872		0.12	25.376	0.235	1503.	0.9
80	81.0	13.732	33.873		0.12	25.372	0.237	1503.	0.5
81	82.0	13.741	33.875		0.12	25.372	0.240	1503.	0.5
82	83.1	13.747	33.874		0.12	25.370	0.243	1503.	0.5
83	84.0	13.731	33.870		0.12	25.371	0.245	1503.	0.5
84	84.6	13.707	33.868		0.12	25.373	0.246	1503.	0.5

SHIP	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH
OC	159	19	18 NOV 1984	1703	39°54.2'N	70°03.6'W	470

DEPTH m	PRESS dbar	TEMP °C	SALIN psu	OXY ml/l	ATN m^{-1}	SIGT gm/cm^3	DYHT A $10m^2/s^2$	S SPD m/s	N cph
2	1.9	15.331	34.331		0.15	25.384	0.000	1507.	-0.5
4	3.9	15.330	34.330		0.15	25.384	0.005	1507.	-0.5
6	5.9	15.331	34.330		0.15	25.383	0.010	1507.	-0.5
8	7.9	15.334	34.330		0.15	25.383	0.016	1507.	-0.5
10	10.1	15.340	34.332		0.15	25.383	0.021	1507.	-0.5
12	11.8	15.341	34.332		0.15	25.383	0.025	1507.	-0.5
14	14.2	15.342	34.332		0.15	25.383	0.032	1507.	-0.3
16	15.8	15.343	34.333		0.15	25.383	0.036	1507.	-0.2
18	18.2	15.343	34.332		0.15	25.382	0.042	1507.	0.1
20	19.9	15.344	34.332		0.15	25.382	0.046	1507.	0.2
22	22.1	15.343	34.332		0.15	25.382	0.052	1507.	0.3
24	23.8	15.343	34.332		0.15	25.382	0.057	1507.	0.3
26	26.2	15.341	34.332		0.15	25.382	0.063	1507.	0.3
28	27.9	15.341	34.332		0.15	25.382	0.067	1507.	0.2
30	30.1	15.341	34.332		0.15	25.382	0.073	1507.	-0.2
32	32.1	15.338	34.330		0.14	25.382	0.078	1507.	-0.3
34	33.8	15.336	34.329		0.14	25.382	0.083	1508.	0.2
36	36.1	15.331	34.328		0.14	25.382	0.088	1508.	0.6
37	37.7	15.330	34.327		0.14	25.382	0.093	1508.	0.9
40	40.1	15.330	34.327		0.13	25.382	0.099	1508.	1.0
42	41.9	15.329	34.329		0.12	25.383	0.104	1508.	1.2
44	44.0	15.331	34.332		0.12	25.385	0.109	1508.	1.5
46	46.0	15.332	34.333		0.12	25.386	0.114	1508.	1.6
48	47.9	15.333	34.334		0.12	25.386	0.119	1508.	1.7
50	50.0	15.339	34.339		0.11	25.388	0.125	1508.	1.6
52	52.2	15.349	34.348		0.11	25.393	0.130	1508.	1.7
54	54.0	15.357	34.352		0.11	25.395	0.135	1508.	1.7
56	56.0	15.390	34.361		0.11	25.394	0.140	1508.	1.2
58	58.0	15.434	34.374		0.10	25.395	0.145	1508.	1.4
59	59.8	15.441	34.383		0.10	25.399	0.150	1508.	3.7
62	62.0	15.438	34.382		0.10	25.399	0.156	1508.	5.1
64	64.0	15.482	34.379		0.10	25.387	0.161	1509.	6.3
65	66.0	15.774	34.491		0.07	25.408	0.166	1510.	7.2
67	67.9	15.950	34.682		0.06	25.515	0.171	1510.	7.7
69	69.9	16.002	34.743		0.05	25.550	0.176	1511.	8.2
72	72.1	15.970	34.793		0.04	25.596	0.181	1511.	8.3
73	74.0	15.938	34.843		0.04	25.642	0.186	1511.	8.5
75	76.0	16.052	34.892		0.04	25.653	0.190	1511.	9.0
77	78.0	16.339	35.038		0.04	25.699	0.195	1512.	9.8
79	80.0	17.119	35.315		0.03	25.728	0.200	1515.	10.3
81	82.1	17.635	35.633		0.03	25.848	0.204	1517.	10.4
83	83.9	17.902	35.897		0.02	25.985	0.208	1518.	10.3
85	86.1	17.644	35.915		0.02	26.062	0.212	1517.	9.7
87	87.9	17.582	35.929		0.02	26.088	0.216	1517.	8.7
89	90.0	17.595	35.954		0.02	26.104	0.220	1517.	7.3
91	91.9	17.610	35.982		0.02	26.122	0.224	1517.	6.0
93	94.0	17.622	36.004		0.02	26.136	0.228	1517.	5.8
95	96.0	17.626	36.027		0.02	26.152	0.231	1517.	6.0
97	98.0	17.614	36.057		0.02	26.178	0.235	1517.	6.4
99	100.1	17.526	36.059		0.02	26.201	0.239	1517.	6.4

SHIP	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH
OC	159	19	18 NOV 1984	1703	39°54.2'N	70°03.6'W	470

DEPTH m	PRESS dbar	TEMP °C	SALIN psu	OXY ml/l	ATN m^{-1}	SIGT gm/cm^3	DYHT A $10m^2/s^2$	S SPD m/s	N cph
101	101.8	17.303	36.050		0.02	26.248	0.242	1517.	6.3
103	104.2	16.992	35.989		0.02	26.277	0.246	1516.	5.9
105	105.8	16.799	35.973		0.02	26.310	0.249	1515.	5.3
107	108.1	16.734	35.942		0.02	26.302	0.253	1515.	4.7
109	109.9	16.713	35.940		0.02	26.305	0.256	1515.	4.2
111	111.9	16.615	35.926		0.02	26.318	0.260	1515.	4.1
113	114.1	16.499	35.897		0.02	26.323	0.264	1514.	4.3
115	115.9	16.366	35.870		0.02	26.333	0.267	1514.	5.1
117	118.1	16.184	35.847		0.02	26.358	0.271	1513.	5.4
119	120.0	16.054	35.834		0.02	26.378	0.274	1513.	5.7
121	122.0	15.945	35.826		0.02	26.397	0.277	1513.	5.9
123	124.0	15.723	35.813		0.02	26.438	0.280	1512.	5.9
125	126.1	15.652	35.803		0.02	26.446	0.284	1512.	5.8
127	128.1	15.582	35.809		0.02	26.467	0.287	1512.	5.6
129	130.0	15.532	35.818		0.02	26.485	0.290	1511.	5.5
131	132.0	15.454	35.828		0.02	26.510	0.293	1511.	5.1
133	134.0	15.392	35.828		0.02	26.524	0.296	1511.	4.9
135	136.0	15.295	35.815		0.01	26.536	0.299	1511.	4.6
137	137.9	15.232	35.817		0.01	26.551	0.302	1511.	4.3
139	140.0	15.194	35.814		0.02	26.558	0.305	1511.	4.0
141	142.1	15.153	35.814		0.02	26.567	0.308	1510.	3.7
143	143.9	15.125	35.817		0.02	26.575	0.311	1510.	3.4
145	146.1	15.085	35.817		0.03	26.584	0.314	1510.	3.1
147	147.9	15.068	35.816		0.03	26.587	0.317	1510.	3.2
149	150.1	15.050	35.815		0.03	26.590	0.320	1510.	3.2
151	152.0	15.038	35.815		0.03	26.593	0.323	1510.	3.3
153	154.1	15.012	35.817		0.03	26.600	0.326	1510.	3.3
155	155.9	14.949	35.820		0.02	26.617	0.329	1510.	3.7
157	158.0	14.901	35.813		0.02	26.622	0.332	1510.	3.9
159	159.9	14.873	35.814		0.02	26.629	0.335	1510.	4.0
161	162.2	14.851	35.815		0.02	26.634	0.338	1510.	4.1
163	163.9	14.765	35.819		0.03	26.656	0.340	1510.	4.2
165	166.1	14.663	35.801		0.04	26.665	0.344	1509.	4.3
167	167.9	14.618	35.799		0.04	26.673	0.346	1509.	4.2
169	170.2	14.550	35.794		0.04	26.684	0.349	1509.	4.1
171	171.9	14.457	35.794		0.03	26.703	0.352	1509.	3.8
172	173.9	14.410	35.782		0.02	26.705	0.354	1509.	3.8
175	176.1	14.394	35.787		0.02	26.712	0.357	1509.	3.8
176	177.8	14.378	35.788		0.02	26.716	0.360	1509.	3.7
179	180.1	14.328	35.786		0.01	26.726	0.363	1508.	3.7
180	181.9	14.263	35.786		0.01	26.740	0.365	1508.	3.9
183	184.2	14.187	35.780		0.01	26.751	0.368	1508.	4.0
184	185.8	14.163	35.780		0.01	26.756	0.371	1508.	4.0
187	188.2	14.118	35.780		0.01	26.766	0.374	1508.	3.9
188	189.8	14.008	35.765		0.01	26.778	0.376	1508.	3.8
191	192.1	13.925	35.758		0.01	26.790	0.379	1507.	3.7
192	193.9	13.880	35.753		0.01	26.795	0.381	1507.	3.7
194	196.0	13.858	35.750		0.01	26.798	0.384	1507.	3.6
196	197.9	13.802	35.751		0.01	26.810	0.386	1507.	3.5
198	200.1	13.725	35.738		0.02	26.816	0.389	1507.	3.6

SHIP	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH
OC	159	19	18 NOV 1984	1703	39°54.2'N	70°03.6'W	470

DEPTH m	PRESS dbar	TEMP °C	SALIN psu	OXY ml/l	ATN m^{-1}	SIGT gm/cm^3	DYHT A $10m^2/s^2$	S SPD m/s	N cph
200	202.1	13.658	35.732		0.02	26.826	0.392	1507.	4.0
202	203.8	13.608	35.724		0.02	26.830	0.394	1506.	4.3
204	206.1	13.524	35.717		0.02	26.842	0.397	1506.	4.5
206	207.7	13.417	35.702		0.03	26.852	0.399	1506.	4.7
209	210.3	13.170	35.670		0.03	26.878	0.402	1505.	4.7
210	211.9	12.989	35.646		0.03	26.896	0.404	1504.	4.7
212	214.1	12.864	35.624		0.03	26.905	0.407	1504.	4.7
214	216.0	12.775	35.612		0.03	26.913	0.409	1504.	4.7
216	217.9	12.718	35.609		0.03	26.922	0.411	1504.	4.7
218	220.1	12.602	35.594		0.03	26.934	0.414	1503.	4.8
220	221.9	12.494	35.599		0.04	26.959	0.416	1503.	4.8
222	224.1	12.269	35.564		0.03	26.975	0.418	1502.	5.1
224	226.0	12.087	35.537		0.03	26.990	0.420	1501.	5.0
226	227.9	11.967	35.525		0.03	27.004	0.423	1501.	4.9
228	230.0	11.892	35.508		0.03	27.005	0.425	1501.	4.6
230	232.1	11.617	35.486		0.03	27.040	0.427	1500.	4.7
232	234.1	11.477	35.458		0.03	27.045	0.429	1499.	4.7
234	235.9	11.404	35.453		0.03	27.054	0.431	1499.	4.7
236	238.2	11.348	35.442		0.03	27.057	0.434	1499.	4.7
238	239.9	11.202	35.455		0.03	27.094	0.435	1499.	4.4
240	242.1	10.977	35.400		0.03	27.092	0.438	1498.	4.4
242	244.1	10.816	35.381		0.03	27.107	0.440	1497.	4.3
244	245.9	10.685	35.371		0.03	27.122	0.441	1497.	4.1
246	248.2	10.574	35.349		0.03	27.125	0.444	1496.	3.5
248	250.0	10.496	35.341		0.03	27.133	0.445	1496.	3.4
250	252.1	10.454	35.339		0.03	27.138	0.447	1496.	3.2
252	253.9	10.376	35.330		0.03	27.145	0.449	1496.	3.0
254	256.0	10.341	35.321		0.03	27.144	0.451	1496.	3.0
256	258.1	10.257	35.316		0.03	27.155	0.453	1495.	2.9
258	259.9	10.192	35.308		0.03	27.160	0.455	1495.	2.8
260	262.1	10.155	35.302		0.03	27.161	0.457	1495.	2.8
262	264.0	10.112	35.302		0.03	27.169	0.459	1495.	2.7
264	266.0	10.061	35.296		0.03	27.173	0.461	1495.	2.4
266	268.1	10.039	35.293		0.03	27.175	0.463	1495.	2.2
268	269.9	10.008	35.292		0.03	27.179	0.464	1495.	2.0
270	272.0	9.970	35.285		0.03	27.180	0.466	1495.	1.6
272	274.1	9.952	35.282		0.03	27.181	0.468	1495.	2.1
274	276.0	9.948	35.281		0.03	27.181	0.470	1495.	2.4
276	277.9	9.947	35.281		0.03	27.181	0.472	1495.	2.8
278	280.1	9.935	35.280		0.03	27.182	0.474	1495.	3.3
280	281.9	9.824	35.285		0.03	27.205	0.476	1494.	4.0
282	284.0	9.704	35.260		0.03	27.205	0.478	1494.	4.4
284	286.0	9.618	35.257		0.03	27.218	0.479	1493.	4.7
286	288.1	9.523	35.253		0.03	27.230	0.481	1493.	4.7
288	290.1	9.283	35.247		0.03	27.266	0.483	1492.	4.4
290	292.1	9.055	35.197		0.03	27.264	0.485	1491.	4.2
292	294.0	8.977	35.205		0.02	27.283	0.486	1491.	3.7
294	296.2	8.875	35.177		0.02	27.278	0.488	1491.	3.1
295	297.9	8.812	35.167		0.02	27.280	0.490	1491.	2.3
297	299.9	8.787	35.167		0.02	27.283	0.491	1491.	2.1

SHIP	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH
OC	159	19	18 NOV 1984	1703	39°54.2'N	70°03.6'W	470

DEPTH m	PRESS dbar	TEMP °C	SALIN psu	OXY ml/l	ATN m^{-1}	SIGT gm/cm^3	DYHT A $10m^2/s^2$	S SPD m/s	N cph
299	302.0	8.768	35.165		0.02	27.285	0.493	1491.	1.9
302	304.2	8.746	35.166		0.02	27.289	0.495	1490.	2.1
303	305.8	8.730	35.163		0.02	27.289	0.496	1490.	2.1
305	308.0	8.709	35.161		0.02	27.291	0.498	1490.	2.3
307	310.0	8.678	35.161		0.02	27.296	0.500	1490.	2.4
310	312.2	8.643	35.159		0.02	27.300	0.502	1490.	2.4
311	313.9	8.603	35.153		0.02	27.302	0.503	1490.	2.4
314	316.2	8.568	35.158		0.02	27.311	0.505	1490.	2.5
315	317.8	8.529	35.149		0.02	27.310	0.506	1490.	2.5
317	320.2	8.514	35.149		0.02	27.312	0.508	1490.	2.6
319	321.9	8.507	35.150		0.02	27.314	0.509	1490.	2.6
321	324.0	8.452	35.152		0.02	27.324	0.511	1490.	2.6
323	326.1	8.410	35.147		0.02	27.327	0.513	1490.	2.8
325	328.0	8.359	35.145		0.02	27.333	0.514	1489.	2.8
327	329.9	8.328	35.142		0.02	27.335	0.516	1489.	2.7
329	332.1	8.300	35.141		0.02	27.339	0.518	1489.	2.8
331	333.8	8.242	35.137		0.03	27.345	0.519	1489.	3.0
333	336.0	8.209	35.134		0.02	27.348	0.521	1489.	2.9
335	338.1	8.185	35.136		0.02	27.353	0.522	1489.	2.9
337	340.0	8.100	35.137		0.03	27.367	0.524	1489.	2.8
339	341.9	8.030	35.128		0.03	27.370	0.525	1488.	2.7
341	344.1	8.011	35.122		0.03	27.368	0.527	1488.	2.5
343	345.9	8.002	35.121		0.03	27.369	0.528	1488.	2.4
345	348.1	7.977	35.125		0.03	27.376	0.530	1488.	2.2
347	350.0	7.924	35.121		0.03	27.380	0.531	1488.	2.3
349	351.9	7.901	35.116		0.03	27.380	0.533	1488.	2.4
351	354.0	7.884	35.118		0.03	27.384	0.534	1488.	2.3
353	356.1	7.832	35.114		0.03	27.389	0.536	1488.	2.1
355	358.0	7.788	35.110		0.03	27.392	0.537	1488.	2.2
357	360.0	7.772	35.107		0.03	27.393	0.539	1488.	2.4
359	362.2	7.767	35.107		0.03	27.393	0.540	1488.	2.5
361	363.9	7.748	35.108		0.03	27.397	0.542	1488.	2.6
363	366.0	7.699	35.110		0.03	27.405	0.543	1487.	2.6
365	367.9	7.643	35.107		0.02	27.411	0.545	1487.	2.7
367	369.7	7.563	35.096		0.02	27.415	0.546	1487.	2.8
369	372.2	7.528	35.093		0.02	27.417	0.548	1487.	2.9
371	374.1	7.507	35.092		0.02	27.419	0.549	1487.	3.1
373	375.9	7.470	35.093		0.02	27.426	0.550	1487.	3.2
375	378.0	7.402	35.087		0.02	27.430	0.552	1487.	3.3
377	380.1	7.314	35.087		0.03	27.443	0.553	1486.	3.3
379	382.1	7.230	35.087		0.03	27.455	0.555	1486.	3.1
381	384.0	7.187	35.080		0.03	27.456	0.556	1486.	2.9
383	386.0	7.139	35.077		0.03	27.460	0.557	1486.	2.7
385	388.1	7.120	35.074		0.03	27.461	0.559	1486.	2.4
387	390.0	7.111	35.074		0.03	27.461	0.560	1486.	2.1
389	391.9	7.090	35.074		0.03	27.465	0.561	1486.	2.3
391	394.1	7.035	35.074		0.03	27.472	0.563	1485.	2.4
393	395.9	7.012	35.071		0.03	27.473	0.564	1485.	2.9
395	398.1	7.004	35.069		0.03	27.473	0.565	1485.	3.1
397	400.0	6.956	35.072		0.04	27.482	0.567	1485.	3.2

SHIP	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH
OC	159	19	18 NOV 1984	1703	39°54.2'N	70°03.6'W	470

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	402.1	6.827	35.055		0.04	27.486	0.568	1485.	3.1
401	404.1	6.727	35.062		0.04	27.505	0.569	1484.	3.0
402	405.8	6.695	35.057		0.04	27.506	0.570	1484.	2.8
404	408.0	6.674	35.055		0.04	27.507	0.572	1484.	2.4
407	410.1	6.665	35.055		0.04	27.508	0.573	1484.	2.0
408	412.0	6.663	35.055		0.04	27.509	0.574	1484.	1.5
410	414.0	6.652	35.054		0.04	27.510	0.576	1484.	1.6
412	415.9	6.634	35.054		0.04	27.512	0.577	1484.	1.7
414	418.0	6.605	35.052		0.04	27.515	0.578	1484.	1.7
416	420.1	6.589	35.051		0.04	27.515	0.579	1484.	1.8
418	422.0	6.566	35.050		0.04	27.518	0.581	1484.	1.9
420	424.0	6.553	35.051		0.05	27.521	0.582	1484.	2.1
422	425.9	6.547	35.050		0.05	27.521	0.583	1484.	2.2
425	428.3	6.523	35.050		0.05	27.524	0.584	1484.	2.4
426	430.0	6.461	35.046		0.05	27.529	0.585	1484.	2.5
428	431.9	6.421	35.044		0.05	27.533	0.587	1484.	2.7
430	433.9	6.371	35.039		0.05	27.535	0.588	1483.	2.7
432	435.9	6.322	35.039		0.05	27.542	0.589	1483.	2.7
434	438.0	6.299	35.040		0.05	27.546	0.590	1483.	2.6
436	440.0	6.262	35.041		0.05	27.552	0.591	1483.	2.7
438	441.9	6.236	35.037		0.05	27.552	0.593	1483.	2.7
440	444.0	6.209	35.038		0.06	27.556	0.594	1483.	2.6
442	446.2	6.147	35.033		0.06	27.560	0.595	1483.	2.5
444	447.9	6.092	35.036		0.06	27.570	0.596	1483.	2.3
446	449.9	6.053	35.029		0.06	27.569	0.597	1482.	2.2
448	452.0	6.040	35.029		0.06	27.571	0.598	1482.	1.9
450	454.0	6.036	35.030		0.06	27.572	0.600	1482.	1.7
452	456.0	6.033	35.030		0.06	27.572	0.601	1482.	1.6
454	458.0	6.025	35.029		0.06	27.573	0.602	1482.	1.7
456	460.1	6.018	35.029		0.06	27.573	0.603	1482.	1.8
457	461.2	5.986	35.030		0.06	27.579	0.604	1482.	2.0
458	462.0	5.966	35.033		0.06	27.583	0.604	1482.	2.1
459	463.1	5.943	35.023		0.06	27.579	0.605	1482.	2.1
460	463.9	5.938	35.026		0.06	27.581	0.605	1482.	1.8
461	465.0	5.927	35.027		0.06	27.584	0.606	1482.	1.8
462	465.9	5.922	35.025		0.05	27.583	0.606	1482.	1.8
463	467.0	5.913	35.024		0.05	27.583	0.607	1482.	1.8
464	467.8	5.904	35.022		0.05	27.582	0.607	1482.	1.8

SHIP	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH
OC	159	20	18 NOV 1984	1812	39°58.0'N	70°00.8'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	1.9	14.995	34.071		0.10	25.258	0.000	1506.	2.4
4	4.0	14.997	34.071		0.10	25.257	0.006	1506.	2.4
6	6.0	14.999	34.069		0.10	25.256	0.011	1506.	2 4
8	7.9	14.994	34.069		0.10	25.256	0.016	1506.	2.4
10	10.2	14.999	34.070		0.10	25.256	0.023	1506.	2.4
12	11.8	15.011	34.073		0.10	25.256	0.027	1506.	3.2
14	14.0	15.054	34.088		0.11	25.258	0.033	1506.	3.7
16	16.1	15.183	34.137		0.12	25.268	0.039	1507.	3.9
18	17.8	15.463	34.267		0.13	25.306	0.043	1508.	3.9
20	20.0	15.670	34.333		0.14	25.310	0.049	1508.	3.8
22	22.1	15.667	34.338		0.14	25.315	0.055	1508.	3.4
24	24.0	15.663	34.339		0.14	25.316	0.059	1508.	2.8
26	26.1	15.678	34.346		0.14	25.319	0.065	1508.	1.8
28	28.0	15.696	34.353		0.14	25.320	0.070	1509.	1.6
30	29.9	15.705	34.357		0.14	25.321	0.075	1509.	1.4
32	32.1	15.720	34.365		0.14	25.323	0.081	1509.	1.3
34	34.0	15.741	34.371		0.13	25.323	0.086	1509.	1.1
36	36.0	15.754	34.375		0.13	25.324	0.091	1509.	1.0
38	38.0	15.754	34.376		0.13	25.324	0.097	1509.	1.0
40	39.9	15.745	34.373		0.13	25.324	0.102	1509.	1.0
42	42.0	15.743	34.373		0.12	25.325	0.107	1509.	1.1
44	44.1	15.773	34.383		0.12	25.325	0.113	1509.	1.1
46	45.9	15.794	34.392		0.11	25.327	0.118	1509.	1.2
48	48.2	15.833	34.404		0.11	25.328	0.124	1509.	1.4
49	49.8	15.839	34.406		0.11	25.328	0.128	1509.	1.6
52	52.0	15.826	34.404		0.11	25.329	0.134	1509.	1.7
54	54.0	15.819	34.405		0.11	25.332	0.139	1509.	1.9
55	55.9	15.832	34.413		0.11	25.335	0.144	1510.	2.2
58	58.0	15.866	34.427		0.10	25.338	0.150	1510.	2.6
60	60.0	15.890	34.437		0.10	25.341	0.155	1510.	3.3
61	62.0	15.920	34.452		0.10	25.345	0.160	1510.	4.0
64	64.0	15.960	34.473		0.10	25.352	0.166	1510.	4.7
65	66.0	15.996	34.503		0.09	25.367	0.171	1510.	5.2
68	68.1	16.090	34.568		0.09	25.396	0.176	1511.	5.6
69	69.9	16.156	34.622		0.08	25.422	0.181	1511.	5.8
71	72.0	16.250	34.684		0.08	25.448	0.186	1511.	6.4
73	74.0	16.359	34.743		0.07	25.468	0.191	1512.	7.5
75	76.0	16.354	34.760		0.07	25.483	0.196	1512.	8.7
77	78.0	16.427	34.816		0.07	25.509	0.201	1512.	9.6
79	79.9	16.530	34.943		0.06	25.582	0.206	1513.	10.1
81	82.0	16.483	35.090		0.05	25.706	0.211	1513.	10.2
83	84.0	16.312	35.189		0.05	25.822	0.215	1512.	10.0
85	86.0	16.307	35.253		0.04	25.872	0.220	1512.	9.6
87	88.1	16.285	35.270		0.04	25.891	0.224	1512.	9.2
89	90.0	16.248	35.281		0.04	25.908	0.228	1512.	8.8
91	91.9	16.215	35.304		0.04	25.933	0.232	1512.	8.9
93	94.1	16.275	35.407		0.04	25.998	0.237	1513.	9.2
95	95.8	15.981	35.440		0.04	26.092	0.240	1512.	9.3
97	98.0	15.712	35.443		0.04	26.155	0.244	1511.	9.1
99	100.2	15.068	35.359		0.05	26.235	0.248	1509.	8.4

SHIP	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH
OC	159	20	18 NOV 1984	1812	39°58.0'N	70°00.8'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
101	102.0	14.982	35.359		0.05	26.254	0.252	1509.	7.3
103	104.1	14.917	35.361		0.05	26.270	0.255	1509.	5.9
105	105.9	14.907	35.368		0.05	26.277	0.259	1509.	4.8
107	108.1	14.929	35.378		0.05	26.280	0.262	1509.	4.0
109	110.0	14.966	35.394		0.05	26.284	0.266	1509.	4.2
111	111.9	15.005	35.412		0.05	26.289	0.269	1509.	4.6
113	114.1	14.995	35.436		0.06	26.310	0.273	1509.	5.0
115	115.9	14.919	35.438		0.06	26.328	0.276	1509.	5.3
117	118.1	14.751	35.428		0.06	26.358	0.280	1508.	5.7
119	119.9	14.636	35.425		0.07	26.380	0.283	1508.	6.3
121	122.0	14.647	35.439		0.07	26.388	0.286	1508.	7.0
123	124.0	14.692	35.475		0.07	26.406	0.290	1508.	7.7
125	126.0	14.768	35.549		0.07	26.447	0.293	1509.	8.5
127	128.0	14.780	35.637		0.07	26.513	0.296	1509.	9.0
129	130.0	14.598	35.675		0.06	26.581	0.299	1508.	9.1
131	131.9	14.380	35.685		0.06	26.636	0.302	1508.	8.7
133	134.3	14.090	35.732		0.03	26.735	0.305	1507.	8.0
135	135.7	14.050	35.732		0.03	26.744	0.307	1507.	7.2
137	138.2	14.035	35.730		0.03	26.744	0.310	1507.	6.6
139	139.8	14.026	35.730		0.03	26.747	0.313	1507.	5.9
141	142.1	13.845	35.701		0.03	26.762	0.316	1506.	5.2
143	144.0	13.504	35.666		0.03	26.807	0.318	1505.	5.1
145	146.0	13.310	35.661		0.03	26.843	0.321	1504.	4.9
147	148.0	13.304	35.661		0.03	26.844	0.323	1504.	4.4
149	150.0	13.307	35.662		0.03	26.844	0.325	1504.	3.5
151	152.1	13.313	35.663		0.03	26.844	0.328	1505.	2.0
153	154.0	13.313	35.664		0.03	26.844	0.330	1505.	0.4
155	156.1	13.309	35.663		0.03	26.845	0.333	1505.	-0.2
157	157.9	13.309	35.663		0.04	26.844	0.335	1505.	-0.3
159	160.2	13.314	35.663		0.03	26.844	0.338	1505.	0.2
160	161.2	13.316	35.663		0.04	26.843	0.339	1505.	0.7
161	162.0	13.319	35.664		0.04	26.843	0.340	1505.	1.1
162	163.0	13.318	35.664		0.04	26.843	0.342	1505.	1.7
163	164.1	13.306	35.664		0.04	26.846	0.343	1505.	2.3
164	165.0	13.292	35.662		0.04	26.847	0.344	1505.	2.8
165	166.0	13.275	35.661		0.04	26.849	0.345	1505.	3.2
166	167.0	13.261	35.660		0.04	26.852	0.347	1505.	3.4
167	168.0	13.210	35.651		0.04	26.856	0.348	1504.	3.3
168	169.0	13.155	35.649		0.04	26.865	0.349	1504.	3.2
169	170.0	13.147	35.649		0.04	26.867	0.350	1504.	3.0
170	171.0	13.129	35.647		0.04	26.869	0.351	1504.	3.0
171	172.1	13.133	35.648		0.04	26.869	0.353	1504.	3.0
172	173.0	13.132	35.648		0.04	26.869	0.354	1504.	3.0
173	173.9	13.123	35.647		0.05	26.870	0.355	1504.	3.0

SHIP	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH
OC	159	21	18 NOV 1984	1916	40°05.0'N	69°59.8'W	143

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	14.130	33.531		0.07	25.026	0.000	1502.	-0.6
2	1.8	14.130	33.531		0.07	25.025	0.003	1502.	-0.6
4	3.8	14.128	33.530		0.07	25.025	0.009	1502.	-0.6
6	5.9	14.129	33.528		0.07	25.024	0.015	1502.	-0.6
8	7.9	14.128	33.529		0.07	25.024	0.021	1502.	-0.6
10	10.1	14.139	33.531		0.07	25.024	0.027	1502.	-0.5
12	12.0	14.152	33.535		0.07	25.024	0.033	1502.	-0.4
14	14.0	14.146	33.533		0.07	25.024	0.039	1502.	-0.3
16	16.1	14.125	33.527		0.07	25.023	0.045	1502.	0.1
18	17.9	14.130	33.529		0.08	25.024	0.050	1502.	0.5
20	20.1	14.132	33.528		0.07	25.023	0.056	1502.	0.6
22	22.0	14.136	33.529		0.07	25.023	0.062	1503.	0.7
24	24.1	14.175	33.542		0.07	25.025	0.068	1503.	1.0
26	26.0	14.190	33.546		0.07	25.025	0.074	1503.	1.1
28	28.0	14.194	33.547		0.07	25.025	0.080	1503.	1.8
30	30.0	14.200	33.549		0.07	25.025	0.085	1503.	2.5
32	32.1	14.245	33.567		0.07	25.029	0.092	1503.	3.8
34	33.9	14.349	33.594		0.07	25.028	0.097	1504.	4.8
36	36.1	14.569	33.677		0.06	25.046	0.103	1504.	5.5
38	38.0	15.090	33.848		0.06	25.065	0.109	1506.	6.0
40	40.0	15.569	34.056		0.06	25.120	0.115	1508.	6.5
42	42.0	15.661	34.124		0.07	25.151	0.120	1508.	6.8
44	44.0	15.666	34.148		0.08	25.168	0.126	1508.	6.9
46	46.1	15.678	34.178		0.09	25.189	0.132	1509.	6.8
48	47.9	15.792	34.262		0.08	25.228	0.137	1509.	6.7
50	50.0	16.033	34.373		0.08	25.258	0.142	1510.	7.0
52	52.0	16.103	34.432		0.07	25.288	0.148	1510.	7.2
54	54.0	16.107	34.461		0.07	25.310	0.153	1510.	7.3
56	56.1	16.026	34.493		0.07	25.352	0.159	1510.	7.5
57	57.9	15.821	34.491		0.06	25.398	0.164	1510.	7.6
59	60.0	15.665	34.479		0.07	25.423	0.169	1509.	7.8
62	62.0	15.497	34.475		0.10	25.458	0.174	1509.	8.1
64	64.1	15.417	34.531		0.11	25.519	0.179	1508.	8.3
65	65.9	15.353	34.535		0.11	25.536	0.184	1508.	8.4
67	68.0	15.023	34.517		0.09	25.595	0.189	1507.	8.3
70	70.1	14.549	34.471		0.09	25.663	0.194	1506.	8.0
71	71.9	14.467	34.489		0.10	25.694	0.198	1506.	7.8
73	73.9	14.442	34.530		0.11	25.731	0.202	1506.	7.8
75	76.0	14.468	34.560		0.10	25.748	0.207	1506.	7.5
77	77.9	14.608	34.621		0.11	25.766	0.212	1506.	7.3
79	80.0	14.719	34.726		0.11	25.823	0.216	1507.	7.2
81	82.0	14.506	34.731		0.11	25.873	0.221	1506.	7.1
83	84.0	14.467	34.756		0.12	25.900	0.225	1506.	7.3
85	86.1	14.504	34.793		0.14	25.921	0.229	1506.	7.2
87	87.9	14.554	34.831		0.16	25.939	0.233	1507.	7.0
89	90.1	14.615	34.892		0.18	25.973	0.237	1507.	6.8
91	92.0	14.759	34.999		0.16	26.025	0.241	1507.	6.8
93	94.0	14.928	35.086		0.15	26.055	0.245	1508.	6.8
95	96.0	15.106	35.168		0.12	26.079	0.249	1509.	6.8
97	98.0	15.337	35.254		0.10	26.094	0.253	1510.	6.8

SHIP	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH
OC	159	21	18 NOV 1984	1916	40°05.0'N	69°59.8'W	143

DEPTH m	PRESS dbar	TEMP °C	SALIN psu	OXY ml/l	ATN m^{-1}	SIGT gm/cm^3	DYHT A $10m^2/s^2$	S SPD m/s	N cph
99	99.9	15.512	35.339		0.09	26.120	0.257	1510.	6.7
101	102.1	15.737	35.446		0.08	26.152	0.261	1511.	6.7
103	104.0	15.934	35.552		0.07	26.188	0.265	1512.	7.2
105	105.9	16.034	35.633		0.07	26.228	0.268	1512.	7.9
107	108.1	16.058	35.679		0.07	26.258	0.272	1513.	8.5
109	109.9	16.068	35.693		0.07	26.266	0.275	1513.	8.9
111	112.0	15.772	35.714		0.11	26.350	0.279	1512.	9.0
113	114.0	15.546	35.767		0.11	26.442	0.282	1511.	8.7
115	116.0	15.398	35.798		0.10	26.500	0.285	1511.	8.4
117	117.9	15.255	35.803		0.13	26.535	0.288	1510.	7.7
119	120.0	15.172	35.796		0.15	26.549	0.291	1510.	6.4
121	122.1	15.110	35.796		0.17	26.563	0.294	1510.	5.1
123	123.9	15.044	35.795		0.20	26.576	0.297	1510.	4.1
125	126.0	15.001	35.794		0.22	26.585	0.300	1510.	3.3
127	128.1	14.995	35.793		0.22	26.586	0.303	1510.	2.9
129	130.0	14.992	35.793		0.23	26.586	0.306	1510.	2.2
130	131.2	14.992	35.793		0.24	26.586	0.308	1510.	1.5
131	132.0	14.993	35.793		0.24	26.586	0.309	1510.	0.8
132	133.0	14.987	35.792		0.24	26.587	0.311	1510.	0.7
133	134.1	14.986	35.792		0.24	26.587	0.312	1510.	0.5
134	134.9	14.986	35.792		0.24	26.587	0.314	1510.	-0.2
135	136.0	14.987	35.792		0.24	26.587	0.315	1510.	-0.5
136	137.0	14.988	35.792		0.24	26.586	0.317	1510.	-0.5
137	137.8	14.990	35.792		0.25	26.586	0.318	1510.	-0.5
138	139.0	14.994	35.792		0.26	26.585	0.320	1510.	-0.5
139	139.6	14.993	35.793		0.26	26.586	0.321	1510.	-0.5

SHIP	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH
OC	159	22	18 NOV 1984	2010	40°11.0'N	69°57.5'W	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	15.370	34.099		0.05	25.197	0.000	1507.	0.3
4	4.0	15.369	34.099		0.05	25.197	0.005	1507.	0.3
6	5.8	15.371	34.100		0.05	25.197	0.010	1507.	0.3
8	8.0	15.377	34.101		0.05	25.196	0.016	1507.	0.3
10	10.2	15.380	34.101		0.05	25.196	0.022	1507.	0.3
12	11.8	15.377	34.101		0.05	25.197	0.026	1507.	0.4
14	14.2	15.375	34.100		0.05	25.196	0.033	1507.	0.4
16	16.0	15.376	34.100		0.05	25.197	0.038	1507.	0.7
18	18.1	15.396	34.108		0.05	25.198	0.044	1507.	0.8
20	20.0	15.403	34.108		0.06	25.197	0.049	1507.	0.6
22	21.9	15.396	34.107		0.05	25.197	0.054	1507.	0.5
24	24.1	15.396	34.110		0.06	25.199	0.060	1507.	0.1
26	26.1	15.410	34.112		0.05	25.198	0.066	1507.	-0.4
28	27.9	15.430	34.115		0.05	25.196	0.071	1507.	-0.5
30	30.1	15.410	34.110		0.05	25.197	0.077	1507.	0.2
32	31.8	15.387	34.103		0.06	25.196	0.082	1507.	0.8
34	34.2	15.387	34.104		0.05	25.197	0.088	1507.	1.4
36	35.9	15.390	34.103		0.05	25.195	0.093	1507.	1.6
38	38.0	15.408	34.114		0.05	25.200	0.099	1508.	1.9
40	40.2	15.442	34.129		0.07	25.204	0.105	1508.	2.1
42	42.1	15.483	34.145		0.06	25.208	0.110	1508.	2.5
44	44.1	15.507	34.152		0.05	25.208	0.116	1508.	2.9
46	46.1	15.533	34.169		0.06	25.215	0.121	1508.	3.2
48	47.9	15.537	34.171		0.05	25.215	0.126	1508.	3.3
50	50.0	15.533	34.193		0.05	25.233	0.132	1508.	3.4
52	51.9	15.656	34.241		0.06	25.242	0.137	1509.	3.4
54	54.1	15.911	34.330		0.06	25.254	0.143	1510.	3.5
56	56.0	16.036	34.365		0.06	25.252	0.149	1510.	3.7
58	58.1	16.038	34.369		0.06	25.255	0.154	1510.	3.8
60	60.0	16.057	34.389		0.06	25.266	0.159	1510.	3.8
61	61.8	16.089	34.417		0.06	25.279	0.164	1510.	3.8
64	64.1	16.245	34.491		0.06	25.301	0.170	1511.	4.0
65	66.0	16.275	34.508		0.06	25.307	0.176	1511.	4.0
67	67.9	16.291	34.513		0.06	25.308	0.181	1511.	4.0
70	70.1	16.334	34.535		0.07	25.314	0.186	1511.	4.1
71	71.8	16.434	34.582		0.07	25.327	0.191	1512.	4.2
73	74.0	16.594	34.645		0.07	25.338	0.197	1512.	4.3
76	76.1	16.693	34.704		0.08	25.360	0.202	1513.	4.3
78	78.2	16.768	34.746		0.09	25.375	0.208	1513.	4.5
79	79.8	16.777	34.760		0.10	25.384	0.212	1513.	4.9
81	82.0	16.778	34.766		0.10	25.388	0.218	1513.	5.6
83	84.0	16.783	34.776		0.11	25.394	0.223	1513.	6.4
85	85.8	16.843	34.836		0.14	25.427	0.228	1514.	7.2
87	87.3	16.873	34.900		0.17	25.469	0.231	1514.	8.0
87	88.1	16.856	34.954		0.19	25.514	0.233	1514.	8.9
88	88.9	16.846	34.997		0.21	25.550	0.235	1514.	9.4
89	90.0	16.845	35.009		0.22	25.559	0.238	1514.	9.1
90	91.0	16.853	35.055		0.24	25.592	0.240	1514.	8.3
91	92.0	16.878	35.086		0.25	25.610	0.243	1514.	7.5
92	93.0	16.837	35.103		0.26	25.633	0.245	1514.	7.2

SHIP	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH
OC	159	22	18 NOV 1984	2010	40°11.0'N	69°57.5'W	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
93	94.0	16.825	35.108		0.26	25.639	0.248	1514.	7.2
94	95.0	16.776	35.101		0.28	25.646	0.250	1514.	7.2
95	96.0	16.715	35.102		0.32	25.661	0.252	1514.	7.2
96	96.6	16.670	35.113		0.35	25.680	0.254	1514.	7.2

SHIP	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH
OC	159	23	18 NOV 1984	2111	40°17.0'N	69°56.3'W	87

DEPTH m	PRESS dbar	TEMP °C	SALIN psu	OXY ml/l	ATN m^{-1}	SIGT gm/cm^3	DYHT A $10m^2/s^2$	S SPD m/s	N cph
2	2.5	14.219	33.655		0.08	25.103	0.000	1503.	1.0
4	4.0	14.222	33.655		0.07	25.102	0.004	1503.	1.0
6	6.0	14.222	33.656		0.07	25.103	0.010	1503.	1.0
8	7.8	14.226	33.657		0.07	25.103	0.015	1503.	1.0
10	10.2	14.241	33.662		0.07	25.104	0.022	1503.	1.0
12	12.0	14.267	33.670		0.07	25.104	0.027	1503.	1.0
14	14.0	14.283	33.676		0.07	25.106	0.033	1503.	1.1
16	16.2	14.294	33.679		0.07	25.106	0.039	1503.	1.3
18	17.8	14.302	33.682		0.07	25.106	0.044	1503.	1.4
20	20.0	14.313	33.686		0.07	25.107	0.050	1503.	1.4
22	22.1	14.331	33.695		0.08	25.110	0.056	1503.	1.4
24	23.9	14.354	33.703		0.08	25.112	0.061	1503.	1.5
26	25.9	14.368	33.709		0.07	25.113	0.067	1504.	1.5
28	28.1	14.383	33.714		0.08	25.114	0.073	1504.	1.4
30	29.9	14.393	33.717		0.08	25.114	0.078	1504.	1.3
32	31.8	14.411	33.724		0.08	25.116	0.084	1504.	1.2
34	34.2	14.428	33.731		0.08	25.117	0.090	1504.	1.2
36	35.9	14.438	33.734		0.08	25.117	0.095	1504.	1.0
38	37.9	14.448	33.737		0.08	25.118	0.101	1504.	1.0
40	40.1	14.452	33.739		0.08	25.118	0.107	1504.	0.8
42	41.8	14.460	33.742		0.07	25.119	0.112	1504.	0.6
44	44.0	14.462	33.741		0.07	25.118	0.118	1504.	0.8
46	46.2	14.463	33.743		0.08	25.119	0.124	1504.	1.4
48	47.9	14.468	33.744		0.09	25.119	0.129	1504.	2.7
50	50.0	14.471	33.744		0.07	25.118	0.135	1504.	3.3
52	52.2	14.483	33.752		0.07	25.122	0.142	1504.	5.2
53	53.8	14.703	33.830		0.06	25.135	0.146	1505.	6.2
55	55.9	15.166	34.010		0.05	25.173	0.152	1507.	6.6
57	57.9	15.709	34.169		0.05	25.175	0.158	1509.	6.6
60	60.2	16.882	34.690		0.05	25.305	0.164	1513.	6.3
61	61.9	17.824	34.981		0.05	25.302	0.169	1516.	5.6
63	64.0	17.971	35.017		0.05	25.294	0.174	1517.	5.4
66	66.1	17.976	35.020		0.05	25.294	0.180	1517.	5.2
67	68.0	17.916	34.999		0.06	25.293	0.185	1517.	4.3
69	69.8	17.541	34.881		0.08	25.294	0.190	1515.	5.1
71	71.3	16.599	34.674		0.11	25.360	0.194	1512.	5.5
71	72.0	16.291	34.601		0.12	25.375	0.195	1511.	5.5
72	73.0	16.269	34.597		0.12	25.377	0.198	1511.	6.8
73	74.0	16.266	34.595		0.13	25.376	0.201	1511.	8.0
74	75.0	16.244	34.574		0.17	25.365	0.203	1511.	8.6
75	76.0	15.855	34.442		0.22	25.352	0.206	1510.	9.6
76	77.0	14.936	34.336		0.26	25.475	0.209	1507.	10.5
77	78.1	14.975	34.401		0.30	25.516	0.211	1507.	10.7
78	78.9	15.002	34.446		0.34	25.545	0.213	1507.	10.4
79	80.0	14.924	34.470		0.40	25.581	0.216	1507.	9.2
80	80.9	14.897	34.490		0.45	25.602	0.218	1507.	7.1
81	82.0	14.898	34.492		0.46	25.603	0.221	1507.	7.1
82	83.0	14.901	34.494		0.45	25.604	0.223	1507.	7.1
83	84.1	14.900	34.494		0.45	25.604	0.226	1507.	7.1
84	84.5	14.899	34.493		0.46	25.604	0.227	1507.	7.1

SHIP	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH
OC	159	24	18 NOV 1984	2207	40°23.0'N	69°54.8'W	79

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	1.0	13.700	33.406		0.17	25.018	0.000	1501.	-0.3
2	2.0	13.701	33.405		0.16	25.017	0.003	1501.	-0.3
4	4.0	13.702	33.405		0.16	25.017	0.009	1501.	-0.3
6	6.0	13.703	33.406		0.17	25.017	0.015	1501.	-0.3
8	8.0	13.706	33.406		0.17	25.017	0.021	1501.	-0.3
10	9.9	13.710	33.407		0.16	25.017	0.026	1501.	-0.3
12	12.0	13.709	33.408		0.16	25.017	0.032	1501.	-0.4
14	14.1	13.709	33.407		0.16	25.017	0.039	1501.	-0.4
16	16.0	13.718	33.408		0.16	25.016	0.044	1501.	-0.4
18	18.0	13.720	33.409		0.17	25.016	0.050	1501.	-0.3
20	20.0	13.721	33.409		0.16	25.016	0.056	1501.	-0.3
22	22.0	13.720	33.409		0.16	25.016	0.062	1501.	0.2
24	23.9	13.719	33.409		0.16	25.016	0.067	1501.	0.3
26	25.9	13.718	33.408		0.16	25.016	0.073	1501.	0.3
28	28.1	13.718	33.408		0.17	25.016	0.080	1501.	0.3
30	30.1	13.719	33.409		0.17	25.016	0.086	1501.	0.3
32	31.8	13.719	33.409		0.17	25.016	0.091	1501.	0.3
34	34.0	13.716	33.408		0.17	25.016	0.097	1501.	0.3
36	36.2	13.716	33.408		0.17	25.016	0.103	1501.	0.3
38	37.9	13.716	33.408		0.17	25.016	0.108	1501.	0.3
40	40.1	13.718	33.408		0.16	25.016	0.115	1501.	0.4
42	42.3	13.718	33.409		0.16	25.016	0.121	1501.	0.3
44	43.9	13.718	33.409		0.17	25.016	0.126	1501.	0.3
46	46.0	13.717	33.408		0.17	25.016	0.132	1501.	-0.2
48	48.2	13.719	33.409		0.17	25.016	0.139	1501.	0.7
50	50.1	13.719	33.409		0.17	25.016	0.144	1502.	1.4
52	52.2	13.718	33.408		0.16	25.016	0.151	1502.	1.8
54	54.0	13.786	33.425		0.16	25.015	0.156	1502.	4.3
55	55.9	13.860	33.453		0.16	25.022	0.161	1502.	5.8
58	58.3	14.040	33.513		0.16	25.031	0.168	1503.	6.5
59	60.0	14.491	33.642		0.17	25.035	0.173	1504.	7.0
61	61.9	15.571	34.123		0.26	25.170	0.179	1508.	7.2
64	64.2	16.082	34.315		0.29	25.203	0.185	1510.	7.2
65	65.8	16.100	34.318		0.29	25.201	0.190	1510.	6.9
67	67.3	16.105	34.319		0.29	25.201	0.194	1510.	5.8
67	68.0	16.105	34.320		0.29	25.201	0.196	1510.	2.4
68	69.0	16.111	34.319		0.29	25.199	0.199	1510.	-1.0
69	69.9	16.116	34.320		0.30	25.199	0.201	1511.	-0.8
70	71.0	16.124	34.323		0.31	25.199	0.204	1511.	-0.6
72	72.1	16.128	34.325		0.31	25.200	0.207	1511.	-0.7
72	72.9	16.135	34.326		0.31	25.200	0.210	1511.	-0.7
73	74.0	16.138	34.327		0.32	25.199	0.213	1511.	-0.7
75	75.1	16.141	34.328		0.32	25.199	0.216	1511.	-0.7
75	75.7	16.144	34.327		0.32	25.198	0.217	1511.	-0.7

SHIP	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH
OC	159	25	18 NOV 1984	2307	40°30.0'N	69°52.8'W	70

DEPTH m	PRESS dbar	TEMP °C	SALIN psu	OXY ml/l	ATN m^{-1}	SIGT gm/cm^3	DYHT A $10m^2/s^2$	S SPD m/s	N cph
2	1.9	13.943	33.442		0.23	24.996	0.000	1501.	0.2
4	3.8	13.941	33.442		0.23	24.996	0.006	1502.	0.2
6	6.0	13.941	33.441		0.23	24.995	0.012	1502.	0.2
8	7.9	13.943	33.442		0.23	24.996	0.018	1502.	0.2
10	9.9	13.946	33.443		0.23	24.996	0.024	1502.	0.2
12	12.2	13.935	33.440		0.23	24.996	0.031	1502.	0.1
14	13.9	13.937	33.440		0.23	24.995	0.035	1502.	0.5
16	16.1	13.938	33.441		0.23	24.996	0.042	1502.	0.5
18	18.1	13.945	33.442		0.23	24.996	0.048	1502.	0.5
20	19.9	13.950	33.443		0.23	24.995	0.053	1502.	0.6
22	22.0	13.974	33.453		0.23	24.998	0.059	1502.	0.8
24	24.2	13.984	33.454		0.23	24.996	0.066	1502.	0.8
26	26.0	13.989	33.456		0.23	24.997	0.071	1502.	0.8
28	27.8	13.999	33.459		0.23	24.997	0.077	1502.	1.2
30	29.9	13.999	33.462		0.23	24.999	0.083	1502.	1.1
32	31.9	14.023	33.467		0.23	24.998	0.089	1502.	1.1
34	33.9	14.035	33.470		0.22	24.998	0.095	1502.	0.9
36	35.9	14.075	33.491		0.22	25.006	0.101	1503.	0.6
38	38.1	14.100	33.489		0.22	24.999	0.107	1503.	0.6
40	40.1	14.109	33.492		0.22	25.000	0.113	1503.	0.7
42	42.1	14.117	33.494		0.22	25.000	0.119	1503.	0.8
44	43.9	14.125	33.494		0.22	24.998	0.124	1503.	0.4
45	45.8	14.138	33.503		0.22	25.002	0.130	1503.	1.0
47	47.8	14.189	33.517		0.22	25.003	0.136	1503.	1.6
49	49.8	14.269	33.542		0.22	25.005	0.142	1503.	1.9
52	51.9	14.269	33.538		0.22	25.002	0.148	1503.	2.1
54	54.0	14.252	33.535		0.22	25.003	0.154	1503.	2.2
56	55.9	14.360	33.587		0.24	25.020	0.160	1504.	2.3
57	57.2	14.498	33.620		0.26	25.016	0.164	1504.	2.5
58	58.1	14.514	33.625		0.26	25.017	0.166	1504.	2.7
58	58.9	14.520	33.630		0.27	25.020	0.168	1505.	2.4
60	60.0	14.538	33.635		0.28	25.020	0.172	1505.	1.7
61	61.1	14.569	33.647		0.29	25.022	0.175	1505.	1.9
61	61.9	14.576	33.653		0.29	25.025	0.177	1505.	1.7
63	63.0	14.579	33.650		0.30	25.023	0.181	1505.	1.5
64	64.1	14.587	33.655		0.30	25.025	0.184	1505.	1.5
64	64.9	14.600	33.658		0.31	25.025	0.186	1505.	1.5
66	66.0	14.603	33.660		0.30	25.025	0.189	1505.	1.5
66	67.0	14.603	33.660		0.30	25.025	0.192	1505.	1.5

SHIP	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH
OC	159	26	19 NOV 1984	0403	40°25.1'N	70°25.1'W	80

DEPTH m	PRESS dbar	TEMP °C	SALIN psu	OXY ml/l	ATN m^{-1}	SIGT gm/cm^3	DYHT A $10m^2/s^2$	S SPD m/s	N cph
1	0.7	14.263	33.730		0.18	25.151	0.000	1503.	2.5
2	2.0	14.290	33.746		0.18	25.158	0.004	1503.	2.5
4	4.1	14.280	33.737		0.18	25.153	0.009	1503.	2.5
6	6.0	14.275	33.734		0.18	25.152	0.015	1503.	2.5
8	8.0	14.290	33.731		0.18	25.146	0.021	1503.	2.5
10	9.9	14.385	33.764		0.18	25.152	0.026	1503.	2.9
12	12.0	14.456	33.804		0.17	25.168	0.032	1504.	3.3
14	14.1	14.534	33.837		0.17	25.176	0.037	1504.	3.5
16	15.9	14.627	33.876		0.17	25.186	0.043	1504.	3.5
18	18.1	14.696	33.905		0.16	25.195	0.049	1505.	3.5
20	19.9	14.824	33.945		0.16	25.198	0.054	1505.	3.4
22	22.0	14.886	33.970		0.16	25.204	0.059	1505.	3.8
24	24.0	14.976	34.000		0.16	25.207	0.065	1506.	4.3
26	26.0	15.125	34.060		0.16	25.221	0.070	1506.	4.7
28	28.0	15.306	34.129		0.16	25.234	0.076	1507.	4.8
30	29.9	15.486	34.213		0.15	25.259	0.081	1508.	4.9
32	32.0	15.538	34.273		0.16	25.293	0.087	1508.	4.7
34	34.1	15.564	34.286		0.17	25.298	0.092	1508.	4.3
36	36.0	15.586	34.291		0.18	25.297	0.097	1508.	3.7
38	38.0	15.613	34.313		0.19	25.307	0.103	1508.	2.9
40	40.0	15.622	34.319		0.19	25.310	0.108	1508.	2.1
42	42.1	15.621	34.321		0.19	25.311	0.114	1509.	1.8
44	44.0	15.618	34.321		0.19	25.312	0.119	1509.	1.6
46	46.0	15.617	34.320		0.19	25.312	0.124	1509.	1.2
47	47.9	15.616	34.321		0.19	25.313	0.129	1509.	1.2
50	50.0	15.615	34.321		0.19	25.313	0.135	1509.	1.3
52	51.9	15.620	34.324		0.19	25.314	0.140	1509.	1.3
54	54.1	15.630	34.330		0.20	25.316	0.146	1509.	1.3
55	55.6	15.650	34.338		0.21	25.318	0.150	1509.	1.3
58	58.3	15.666	34.344		0.22	25.319	0.157	1509.	1.4
59	59.8	15.668	34.345		0.22	25.320	0.161	1509.	1.3
61	61.2	15.674	34.345		0.23	25.318	0.165	1509.	1.2
62	62.0	15.679	34.347		0.22	25.319	0.167	1509.	0.9
62	63.0	15.679	34.351		0.21	25.321	0.169	1509.	0.9
63	64.0	15.676	34.350		0.21	25.322	0.172	1509.	0.8
64	65.0	15.674	34.349		0.22	25.321	0.175	1509.	0.7
66	66.0	15.677	34.347		0.22	25.319	0.177	1509.	-0.3
66	67.0	15.675	34.348		0.21	25.321	0.180	1509.	-1.0
67	68.0	15.673	34.347		0.22	25.320	0.183	1509.	-0.8
68	69.0	15.675	34.348		0.22	25.320	0.185	1509.	-0.8
69	70.0	15.677	34.348		0.23	25.320	0.188	1509.	-0.7
70	71.0	15.688	34.349		0.23	25.318	0.191	1509.	-0.7
71	72.0	15.691	34.353		0.24	25.321	0.193	1509.	-0.7
72	73.0	15.697	34.352		0.26	25.318	0.196	1509.	-0.7
73	73.7	15.709	34.355		0.27	25.319	0.198	1509.	-0.7

SHIP	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH
OC	159	27	19 NOV 1984	0509	40°16.2'N	70°26.6'W	103

DEPTH m	PRESS dbar	TEMP °C	SALIN psu	OXY ml/l	ATN m^{-1}	SIGT gm/cm^3	DYHT A $10m^2/s^2$	S SPD m/s	N cph
2	2.4	14.780	33.984		0.07	25.237	0.000	1505.	-0.2
4	4.0	14.779	33.984		0.07	25.237	0.004	1505.	-0.2
6	6.0	14.779	33.983		0.07	25.236	0.010	1505.	-0.2
8	8.0	14.775	33.984		0.07	25.238	0.015	1505.	-0.2
10	9.9	14.772	33.982		0.07	25.237	0.020	1505.	-0.2
12	12.0	14.774	33.982		0.07	25.237	0.026	1505.	-0.2
14	14.0	14.777	33.982		0.07	25.237	0.031	1505.	0.0
16	15.9	14.780	33.983		0.07	25.236	0.037	1505.	-0.3
18	18.0	14.783	33.984		0.07	25.236	0.043	1505.	0.3
20	20.1	14.782	33.984		0.07	25.237	0.048	1505.	0.4
22	21.9	14.776	33.982		0.07	25.237	0.053	1505.	0.4
24	24.0	14.780	33.983		0.07	25.236	0.059	1505.	0.4
26	26.0	14.780	33.984		0.08	25.237	0.064	1505.	0.3
28	28.1	14.775	33.982		0.07	25.237	0.070	1505.	0.2
30	30.0	14.771	33.981		0.07	25.237	0.075	1505.	0.4
32	31.9	14.770	33.980		0.07	25.236	0.081	1505.	0.4
34	34.1	14.769	33.980		0.07	25.237	0.087	1505.	0.3
36	35.9	14.771	33.980		0.07	25.236	0.091	1505.	0.3
38	38.0	14.768	33.981		0.07	25.237	0.097	1505.	0.3
40	40.0	14.763	33.978		0.07	25.237	0.103	1505.	0.2
42	41.9	14.763	33.978		0.07	25.237	0.108	1505.	-0.2
44	44.0	14.761	33.977		0.07	25.236	0.114	1505.	-0.3
46	46.2	14.758	33.977		0.07	25.237	0.120	1505.	-0.4
47	47.8	14.761	33.977		0.07	25.236	0.124	1506.	-0.3
50	50.2	14.764	33.978		0.07	25.236	0.130	1506.	0.3
52	52.0	14.767	33.979		0.07	25.236	0.135	1506.	0.5
54	54.0	14.768	33.979		0.07	25.236	0.141	1506.	0.8
56	56.0	14.772	33.979		0.07	25.235	0.146	1506.	1.0
58	58.0	14.784	33.986		0.08	25.238	0.152	1506.	1.2
60	60.0	14.793	33.988		0.08	25.237	0.157	1506.	1.4
62	62.0	14.805	33.994		0.08	25.239	0.163	1506.	2.9
64	64.1	14.820	34.000		0.08	25.241	0.169	1506.	4.1
65	65.9	14.834	34.006		0.08	25.243	0.173	1506.	4.8
68	68.1	14.866	34.020		0.08	25.246	0.179	1506.	5.9
69	70.0	15.262	34.209		0.08	25.305	0.185	1508.	6.9
71	71.9	16.242	34.544		0.06	25.342	0.190	1511.	7.6
73	74.0	17.084	34.808		0.05	25.348	0.195	1514.	8.1
75	76.0	17.632	35.082		0.05	25.426	0.200	1516.	8.8
77	78.0	17.622	35.143		0.06	25.475	0.205	1516.	9.0
79	80.1	17.364	35.112		0.07	25.514	0.211	1515.	9.6
81	82.0	16.973	35.063		0.09	25.570	0.215	1514.	10.3
83	84.0	16.309	34.998		0.17	25.676	0.220	1512.	10.6
85	86.0	15.727	34.840		0.23	25.688	0.225	1510.	10.9
87	88.1	15.672	34.991		0.35	25.816	0.230	1510.	11.1
89	90.0	15.701	35.136		0.44	25.921	0.234	1511.	10.9
91	91.3	15.737	35.196		0.47	25.959	0.236	1511.	10.2
91	92.0	15.756	35.214		0.48	25.969	0.238	1511.	9.6
92	93.0	15.765	35.229		0.49	25.978	0.240	1511.	7.4
93	94.0	15.769	35.237		0.51	25.983	0.242	1511.	5.4
94	95.0	15.774	35.248		0.53	25.990	0.244	1511.	4.8

SHIP	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH
OC	159	27	19 NOV 1984	0509	40°16.2'N	70°26.6'W	103

DEPTH m	PRESS dbar	TEMP °C	SALIN psu	OXY ml/l	ATN m^{-1}	SIGT gm/cm^3	DYHT A $10m^2/s^2$	S SPD m/s	N cph
95	96.0	15.780	35.259		0.53	25.998	0.246	1511.	4.8
96	97.0	15.783	35.264		0.57	26.001	0.248	1511.	4.8
97	98.0	15.795	35.279		0.64	26.010	0.250	1511.	4.8
98	99.0	15.809	35.300		0.69	26.023	0.252	1511.	4.8

SHIP	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH
OC	159	28	19 NOV 1984	0612	40°07.6'N	70°28.9'W	120

DEPTH m	PRESS dbar	TEMP °C	SALIN psu	OXY ml/l	ATN m^{-1}	SIGT gm/cm^3	DYHT A $10m^2/s^2$	S SPD m/s	N cph
2	2.3	15.135	34.135		0.08	25.276	0.000	1506.	-0.2
4	4.0	15.145	34.133		0.08	25.273	0.005	1506.	-0.2
6	6.1	15.144	34.134		0.08	25.274	0.010	1506.	-0.2
8	7.9	15.135	34.130		0.08	25.272	0.015	1506.	-0.2
10	10.0	15.142	34.131		0.08	25.272	0.021	1506.	-0.2
12	12.1	15.167	34.135		0.08	25.269	0.026	1506.	1.0
14	13.9	15.226	34.149		0.07	25.267	0.031	1507.	1.1
16	16.1	15.235	34.161		0.07	25.275	0.037	1507.	1.1
18	18.0	15.236	34.165		0.07	25.277	0.042	1507.	0.6
20	19.9	15.221	34.161		0.07	25.277	0.047	1507.	0.9
22	22.1	15.209	34.154		0.08	25.275	0.053	1507.	1.0
24	24.0	15.207	34.152		0.08	25.274	0.058	1507.	1.0
26	26.0	15.271	34.160		0.07	25.266	0.064	1507.	1.3
28	28.0	15.304	34.185		0.07	25.277	0.069	1507.	1.7
30	30.1	15.316	34.192		0.07	25.280	0.075	1507.	2.1
32	31.9	15.350	34.205		0.07	25.283	0.080	1507.	2.4
34	34.0	15.392	34.219		0.06	25.284	0.085	1508.	2.6
36	36.1	15.434	34.236		0.06	25.288	0.091	1508.	2.4
38	38.0	15.459	34.253		0.06	25.296	0.096	1508.	2.3
40	40.1	15.473	34.263		0.06	25.300	0.102	1508.	2.2
42	42.0	15.492	34.272		0.08	25.303	0.107	1508.	2.0
44	43.9	15.506	34.275		0.06	25.302	0.112	1508.	1.7
46	46.0	15.509	34.277		0.06	25.303	0.118	1508.	1.5
48	47.9	15.516	34.279		0.06	25.303	0.123	1508.	1.5
50	50.1	15.537	34.287		0.06	25.305	0.128	1508.	1.8
52	51.9	15.575	34.302		0.06	25.307	0.133	1509.	2.6
54	54.0	15.610	34.316		0.05	25.310	0.139	1509.	4.3
56	56.0	15.689	34.341		0.05	25.312	0.144	1509.	5.3
57	57.9	15.867	34.405		0.04	25.321	0.149	1510.	5.9
60	60.2	16.020	34.487		0.04	25.349	0.155	1510.	6.2
61	61.9	15.619	34.481		0.05	25.436	0.160	1509.	6.4
63	64.0	15.606	34.490		0.04	25.445	0.165	1509.	6.2
66	66.1	15.724	34.541		0.04	25.458	0.171	1509.	5.7
67	68.0	15.844	34.595		0.04	25.472	0.175	1510.	4.9
69	69.9	15.872	34.619		0.04	25.485	0.180	1510.	3.8
72	72.2	16.001	34.658		0.04	25.486	0.186	1511.	3.8
73	73.9	16.146	34.714		0.04	25.495	0.190	1511.	4.0
75	76.0	16.243	34.757		0.04	25.506	0.195	1512.	4.6
77	77.9	16.370	34.795		0.04	25.506	0.200	1512.	5.1
79	80.1	16.419	34.837		0.04	25.526	0.205	1512.	5.7
81	81.9	16.448	34.886		0.04	25.557	0.210	1512.	6.2
83	84.1	16.445	34.936		0.04	25.597	0.215	1512.	7.4
85	85.7	16.495	34.975		0.04	25.615	0.219	1513.	8.4
87	88.2	16.626	35.059		0.04	25.649	0.225	1513.	9.2
89	89.9	16.715	35.125		0.04	25.679	0.229	1514.	9.8
91	92.0	16.921	35.365		0.03	25.814	0.234	1515.	10.5
93	94.0	17.047	35.492		0.03	25.881	0.238	1515.	11.1
95	96.1	17.012	35.599		0.02	25.972	0.242	1515.	11.3
97	97.3	16.914	35.609		0.02	26.004	0.245	1515.	11.1
97	97.9	16.751	35.636		0.02	26.063	0.246	1514.	10.2

SHIP	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH
OC	159	28	19 NOV 1984	0612	40°07.6'N	70°28.9'W	120

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
98	99.0	16.588	35.631		0.02	26.097	0.248	1514.	9.4
99	100.1	16.558	35.604		0.02	26.084	0.250	1514.	8.1
100	101.0	16.484	35.613		0.02	26.108	0.252	1514.	7.6
101	102.0	16.422	35.619		0.02	26.127	0.254	1513.	8.1
102	103.0	16.395	35.623		0.02	26.136	0.256	1513.	9.1
103	104.1	16.367	35.624		0.02	26.144	0.258	1513.	10.4
104	105.0	16.206	35.630		0.04	26.186	0.260	1513.	10.7
105	106.0	15.945	35.660		0.07	26.269	0.262	1512.	10.9
106	107.0	15.783	35.660		0.11	26.306	0.263	1512.	10.7
107	108.0	15.671	35.693		0.11	26.357	0.265	1511.	10.0
108	109.0	15.625	35.687		0.11	26.363	0.267	1511.	8.5
109	110.1	15.589	35.699		0.13	26.380	0.269	1511.	6.7
110	110.9	15.577	35.707		0.13	26.389	0.270	1511.	5.3
111	112.1	15.573	35.709		0.14	26.391	0.272	1511.	4.2
112	113.0	15.574	35.709		0.14	26.392	0.273	1511.	3.6
113	114.1	15.580	35.713		0.15	26.393	0.275	1511.	3.6
114	114.9	15.586	35.717		0.16	26.394	0.277	1511.	3.6
115	116.0	15.589	35.737		0.16	26.409	0.278	1511.	3.6
116	116.7	15.590	35.719		0.16	26.396	0.280	1511.	3.6

SHIP	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH
OC	159	29	19 NOV 1984	0652	40°03.7'N	70°30.1'W	200

DEPTH m	PRESS dbar	TEMP °C	SALIN psu	OXY ml/l	ATN m^{-1}	SIGT gm/cm^3	DYHT A $10m^2/s^2$	S SPD m/s	N cph
2	2.0	14.592	33.853		0.07	25.177	0.000	1504.	-0.4
4	3.9	14.591	33.853		0.07	25.177	0.005	1504.	-0.4
6	6.0	14.590	33.853		0.07	25.177	0.011	1504.	-0.4
8	7.9	14.588	33.852		0.07	25.177	0.016	1504.	-0.4
10	10.0	14.586	33.852		0.07	25.177	0.022	1504.	-0.4
12	12.0	14.586	33.851		0.07	25.177	0.028	1504.	-0.5
14	13.9	14.587	33.851		0.07	25.176	0.033	1504.	-0.6
16	16.0	14.586	33.851		0.07	25.176	0.039	1504.	-0.7
18	18.0	14.585	33.850		0.07	25.176	0.045	1504.	-0.4
20	19.9	14.587	33.850		0.07	25.175	0.050	1504.	1.8
22	22.0	14.588	33.849		0.07	25.174	0.055	1504.	4.3
24	24.0	14.606	33.853		0.07	25.174	0.061	1504.	6.0
26	26.0	14.724	33.890		0.07	25.177	0.067	1505.	7.0
28	27.9	14.961	33.997		0.07	25.208	0.072	1506.	7.8
30	30.0	15.641	34.344		0.07	25.325	0.078	1508.	8.2
32	32.0	16.055	34.542		0.07	25.383	0.083	1510.	8.3
34	34.0	16.233	34.626		0.06	25.407	0.088	1511.	8.0
36	36.0	16.483	34.735		0.06	25.434	0.093	1512.	7.3
38	38.1	16.656	34.821		0.06	25.459	0.098	1512.	6.3
40	40.0	16.876	34.930		0.06	25.491	0.103	1513.	5.6
42	42.0	16.991	34.982		0.06	25.503	0.108	1513.	5.1
44	44.0	17.161	35.056		0.05	25.520	0.113	1514.	4.5
46	46.0	17.300	35.115		0.05	25.532	0.118	1515.	4.0
48	48.0	17.309	35.121		0.05	25.535	0.123	1515.	3.7
50	50.0	17.309	35.122		0.05	25.535	0.128	1515.	3.6
52	52.0	17.314	35.127		0.05	25.538	0.133	1515.	3.4
54	54.0	17.360	35.162		0.05	25.554	0.138	1515.	3.3
56	56.0	17.455	35.214		0.05	25.570	0.143	1515.	3.2
58	58.0	17.544	35.250		0.05	25.576	0.147	1516.	3.1
59	59.9	17.596	35.266		0.05	25.576	0.152	1516.	2.8
62	62.0	17.610	35.271		0.05	25.576	0.157	1516.	2.4
63	64.0	17.622	35.277		0.05	25.578	0.162	1516.	2.8
65	66.0	17.661	35.294		0.05	25.582	0.167	1516.	4.2
67	68.0	17.669	35.304		0.05	25.587	0.172	1516.	6.3
69	70.0	17.690	35.315		0.05	25.590	0.176	1516.	8.8
71	72.0	17.773	35.391		0.04	25.628	0.181	1517.	10.7
73	74.0	17.827	35.500		0.04	25.699	0.186	1517.	11.9
75	76.0	17.736	35.646		0.03	25.833	0.190	1517.	12.4
77	78.0	17.455	35.831		0.03	26.044	0.195	1516.	12.3
79	79.9	17.667	36.070		0.02	26.175	0.198	1517.	11.4
81	82.0	17.923	36.190		0.01	26.204	0.202	1518.	10.3
83	84.0	17.782	36.167		0.01	26.221	0.206	1518.	8.8
85	86.0	17.522	36.107		0.01	26.239	0.209	1517.	7.0
87	88.0	17.400	36.054		0.02	26.228	0.213	1517.	5.9
89	90.0	15.909	35.698		0.02	26.307	0.217	1512.	5.7
91	92.0	15.567	35.624		0.01	26.327	0.220	1511.	5.7
93	94.0	15.566	35.624		0.01	26.328	0.223	1511.	5.7
95	96.0	15.537	35.622		0.01	26.333	0.227	1511.	5.7
97	98.0	15.408	35.604		0.01	26.348	0.230	1510.	5.2
99	100.0	15.150	35.576		0.01	26.384	0.233	1509.	5.3

SHIP	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH
OC	159	29	19 NOV 1984	0652	40°03.7'N	70°30.1'W	200

DEPTH m	PRESS dbar	TEMP °C	SALIN psu	OXY ml/l	ATN m^{-1}	SIGT gm/cm^3	DYHT A $10m^2/s^2$	S SPD m/s	N cph
101	102.0	15.148	35.605		0.01	26.406	0.237	1510.	5.3
103	104.0	15.209	35.650		0.01	26.428	0.240	1510.	5.0
105	106.0	15.247	35.673		0.01	26.437	0.243	1510.	4.9
107	108.0	15.257	35.684		0.01	26.444	0.247	1510.	4.7
109	110.0	15.254	35.692		0.01	26.450	0.250	1510.	4.8
111	112.0	15.255	35.699		0.01	26.455	0.253	1510.	5.3
113	114.0	15.335	35.769		0.00	26.492	0.256	1510.	5.9
115	116.0	15.323	35.797		0.00	26.515	0.259	1511.	6.3
117	118.0	15.274	35.804		0.00	26.532	0.262	1510.	6.6
119	120.0	15.272	35.861		0.00	26.576	0.265	1511.	6.8
121	122.0	15.364	35.933		0.00	26.611	0.268	1511.	6.7
123	124.0	15.282	35.929		0.00	26.627	0.271	1511.	6.4
125	126.0	14.947	35.871		0.00	26.656	0.274	1510.	5.9
127	128.0	14.412	35.772		0.01	26.697	0.277	1508.	5.1
129	130.0	14.381	35.764		0.01	26.697	0.280	1508.	4.5
131	132.0	14.373	35.767		0.01	26.701	0.282	1508.	4.1
133	134.0	14.339	35.762		0.02	26.705	0.285	1508.	3.6
135	136.0	14.292	35.747		0.03	26.703	0.288	1508.	3.4
137	138.0	14.114	35.717		0.04	26.718	0.291	1507.	3.8
139	140.0	14.062	35.715		0.04	26.727	0.293	1507.	3.9
141	142.0	14.035	35.728		0.03	26.743	0.296	1507.	4.0
143	144.0	14.027	35.743		0.02	26.756	0.299	1507.	3.9
145	146.0	13.998	35.741		0.02	26.761	0.301	1507.	3.6
147	148.0	13.963	35.742		0.02	26.769	0.304	1507.	3.3
149	150.0	13.950	35.743		0.02	26.773	0.306	1507.	3.0
151	152.0	13.921	35.743		0.02	26.779	0.309	1507.	2.7
153	154.0	13.909	35.745		0.02	26.783	0.312	1507.	2.6
155	155.9	13.912	35.750		0.02	26.786	0.314	1507.	2.5
157	158.0	13.891	35.749		0.02	26.790	0.317	1507.	2.6
159	160.1	13.874	35.749		0.02	26.793	0.319	1507.	2.6
161	161.9	13.850	35.744		0.02	26.795	0.322	1507.	2.7
163	164.0	13.757	35.730		0.02	26.804	0.324	1506.	2.7
165	166.0	13.706	35.724		0.02	26.810	0.327	1506.	2.7
167	167.9	13.704	35.727		0.02	26.812	0.330	1506.	2.6
169	170.0	13.672	35.724		0.02	26.816	0.332	1506.	2.5
171	172.1	13.640	35.720		0.02	26.820	0.335	1506.	2.2
172	173.9	13.610	35.715		0.02	26.822	0.337	1506.	2.2
175	176.0	13.584	35.710		0.02	26.824	0.340	1506.	2.2
177	178.1	13.568	35.708		0.03	26.826	0.342	1506.	2.2
179	180.0	13.524	35.701		0.03	26.830	0.345	1506.	2.3
181	182.0	13.481	35.695		0.04	26.834	0.347	1506.	2.6
182	184.0	13.460	35.691		0.04	26.835	0.350	1506.	2.8
185	186.1	13.405	35.682		0.06	26.840	0.352	1505.	3.0
186	187.3	13.329	35.671		0.10	26.847	0.354	1505.	3.1
186	188.0	13.276	35.667		0.10	26.854	0.355	1505.	3.1
187	189.0	13.256	35.665		0.11	26.857	0.356	1505.	2.9
188	190.0	13.254	35.665		0.11	26.857	0.357	1505.	2.4
189	191.0	13.253	35.665		0.11	26.857	0.359	1505.	1.7
190	192.0	13.253	35.665		0.11	26.857	0.360	1505.	0.8
191	193.1	13.254	35.665		0.11	26.857	0.361	1505.	-0.2

SHIP	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH
OC	159	29	19 NOV 1984	0652	40°03.7'N	70°30.1'W	200

DEPTH m	PRESS dbar	TEMP °C	SALIN psu	OXY ml/l	ATN m^{-1}	SIGT gm/cm^3	DYHT A $10m^2/s^2$	S SPD m/s	N cph
192	194.0	13.255	35.665		0.11	26.857	0.362	1505.	-0.2
193	195.0	13.256	35.665		0.12	26.857	0.363	1505.	-0.2
194	196.1	13.257	35.665		0.12	26.857	0.365	1505.	-0.2
195	196.5	13.257	35.665		0.12	26.857	0.365	1505.	-0.2

SHIP	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH
OC	159	30	19 NOV 1984	0825	39°58.2'N	70°31.0'W	605

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	17.617	35.421		0.08	25.690	0.000	1515.	-0.4
4	4.0	17.614	35.421		0.08	25.691	0.004	1515.	-0.4
6	6.3	17.615	35.420		0.08	25.690	0.009	1515.	-0.4
8	8.0	17.610	35.421		0.08	25.691	0.013	1515.	-0.4
10	9.9	17.610	35.420		0.08	25.691	0.018	1515.	-0.4
12	12.2	17.624	35.423		0.08	25.690	0.023	1515.	-0.4
14	14.0	17.636	35.426		0.08	25.689	0.027	1515.	-0.2
16	16.0	17.642	35.428		0.08	25.689	0.032	1515.	0.2
18	18.1	17.644	35.429		0.08	25.689	0.037	1516.	0.3
20	20.0	17.649	35.431		0.08	25.690	0.041	1516.	0.4
22	21.9	17.652	35.433		0.08	25.690	0.045	1516.	0.4
24	24.0	17.653	35.434		0.08	25.691	0.050	1516.	1.1
26	25.8	17.640	35.428		0.08	25.689	0.054	1516.	1.5
28	28.1	17.645	35.429		0.08	25.689	0.060	1516.	1.7
30	30.1	17.644	35.429		0.08	25.689	0.064	1516.	1.9
32	31.8	17.700	35.461		0.07	25.700	0.068	1516.	2.0
34	34.1	17.706	35.467		0.07	25.703	0.073	1516.	2.0
36	36.0	17.678	35.458		0.07	25.703	0.078	1516.	1.8
38	37.9	17.667	35.455		0.08	25.704	0.082	1516.	1.5
40	40.0	17.657	35.453		0.08	25.704	0.087	1516.	0.9
41	41.8	17.652	35.452		0.08	25.705	0.091	1516.	0.7
44	44.1	17.643	35.447		0.08	25.704	0.096	1516.	0.7
46	46.1	17.627	35.444		0.08	25.705	0.101	1516.	0.7
47	47.8	17.621	35.443		0.08	25.705	0.105	1516.	0.7
50	50.1	17.622	35.443		0.08	25.705	0.110	1516.	0.8
52	51.9	17.627	35.444		0.08	25.705	0.114	1516.	0.8
53	53.8	17.631	35.447		0.08	25.706	0.118	1516.	0.7
56	56.2	17.635	35.448		0.08	25.706	0.124	1516.	0.8
58	58.1	17.641	35.451		0.08	25.706	0.128	1516.	1.0
59	59.9	17.646	35.452		0.08	25.706	0.132	1516.	1.4
62	62.0	17.651	35.454		0.07	25.707	0.137	1516.	2.3
63	64.0	17.648	35.454		0.07	25.708	0.142	1516.	3.6
65	65.9	17.636	35.454		0.07	25.710	0.146	1516.	4.9
67	68.0	17.611	35.457		0.06	25.719	0.151	1516.	6.4
70	70.1	17.595	35.487		0.06	25.745	0.156	1516.	7.8
71	71.9	17.557	35.534		0.04	25.791	0.160	1516.	8.8
73	74.1	17.489	35.586		0.04	25.847	0.165	1516.	9.7
75	75.8	17.384	35.673		0.03	25.939	0.168	1516.	10.3
77	78.1	17.284	35.747		0.03	26.021	0.173	1516.	10.3
79	79.9	17.219	35.792		0.03	26.071	0.177	1516.	10.1
81	81.9	17.075	35.871		0.02	26.166	0.180	1515.	9.7
83	84.1	16.983	35.916		0.02	26.222	0.184	1515.	9.1
85	85.9	16.959	35.932		0.02	26.240	0.188	1515.	8.6
87	88.1	16.863	35.970		0.02	26.292	0.192	1515.	8.2
89	89.8	16.777	35.991		0.02	26.329	0.195	1515.	7.6
91	92.0	16.648	35.988		0.02	26.357	0.198	1514.	7.3
93	94.0	16.450	35.984		0.01	26.401	0.202	1514.	6.9
95	96.2	15.896	35.865		0.01	26.438	0.205	1512.	6.3
97	98.0	15.748	35.850		0.01	26.460	0.208	1512.	5.7
99	100.0	15.805	35.874		0.01	26.466	0.211	1512.	5.2

SHIP	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH
OC	159	30	19 NOV 1984	0825	39°58.2'N	70°31.0'W	605

DEPTH m	PRESS dbar	TEMP °C	SALIN psu	OXY ml/l	ATN m^{-1}	SIGT gm/cm^3	DYHT A $10m^2/s^2$	S SPD m/s	N cph
101	101.9	15.862	35.908		0.01	26.479	0.214	1512.	4.7
103	104.0	15.874	35.924		0.01	26.488	0.218	1512.	4.4
105	106.0	15.810	35.914		0.01	26.496	0.221	1512.	4.6
107	108.1	15.709	35.900		0.01	26.508	0.224	1512.	5.1
109	109.9	15.515	35.870		0.01	26.529	0.227	1511.	5.3
111	111.9	15.199	35.794		0.01	26.541	0.230	1510.	5.3
113	114.2	14.950	35.764		0.01	26.573	0.233	1509.	5.2
115	116.0	14.876	35.779		0.01	26.601	0.236	1509.	4.9
117	118.0	14.850	35.778		0.01	26.606	0.239	1509.	4.4
119	120.1	14.866	35.787		0.01	26.610	0.242	1509.	3.8
121	121.9	14.886	35.801		0.01	26.616	0.244	1509.	3.0
123	123.8	14.882	35.806		0.01	26.620	0.247	1509.	2.5
125	125.8	14.855	35.801		0.01	26.623	0.250	1509.	2.6
127	128.2	14.823	35.794		0.01	26.624	0.253	1509.	2.8
129	129.9	14.795	35.789		0.01	26.627	0.256	1509.	3.0
131	132.0	14.825	35.807		0.01	26.634	0.259	1509.	3.3
133	134.2	14.823	35.822		0.00	26.646	0.262	1509.	3.7
135	136.0	14.779	35.821		0.00	26.654	0.265	1509.	4.0
137	137.9	14.743	35.816		0.00	26.659	0.267	1509.	4.1
139	140.1	14.676	35.820		0.00	26.676	0.270	1509.	4.1
141	141.9	14.569	35.810		0.00	26.692	0.273	1509.	4.0
143	144.0	14.521	35.804		0.00	26.698	0.276	1508.	3.7
145	146.2	14.482	35.805		0.00	26.707	0.279	1508.	3.4
147	148.0	14.458	35.808		0.00	26.714	0.281	1508.	2.9
149	149.8	14.449	35.806		0.00	26.715	0.284	1508.	2.6
151	152.0	14.442	35.807		0.00	26.717	0.287	1508.	2.5
153	154.1	14.431	35.807		0.00	26.719	0.290	1508.	2.6
155	155.9	14.407	35.805		0.00	26.723	0.292	1508.	3.0
157	158.2	14.377	35.804		0.00	26.729	0.295	1508.	3.3
159	159.9	14.357	35.805		0.00	26.734	0.297	1508.	3.5
161	162.2	14.289	35.802		0.00	26.746	0.301	1508.	3.5
163	163.9	14.195	35.796		0.00	26.762	0.303	1508.	3.4
165	166.0	14.142	35.786		0.00	26.765	0.306	1508.	3.2
167	168.1	14.090	35.779		0.00	26.771	0.308	1507.	3.0
169	170.2	14.073	35.775		0.00	26.772	0.311	1507.	2.9
171	171.9	14.049	35.770		0.00	26.773	0.313	1507.	2.9
172	173.8	14.021	35.769		0.01	26.778	0.316	1507.	3.1
175	176.1	13.977	35.765		0.01	26.785	0.319	1507.	3.2
177	178.2	13.888	35.761		0.00	26.800	0.322	1507.	3.2
178	179.8	13.836	35.754		0.01	26.805	0.324	1507.	3.1
180	181.9	13.799	35.748		0.01	26.809	0.326	1507.	3.0
182	183.9	13.768	35.745		0.01	26.812	0.329	1507.	2.7
185	186.1	13.726	35.738		0.01	26.816	0.332	1507.	2.4
186	188.0	13.692	35.733		0.01	26.819	0.334	1506.	2.4
188	189.8	13.680	35.732		0.01	26.821	0.336	1506.	2.5
191	192.1	13.661	35.730		0.01	26.824	0.339	1506.	2.6
192	194.0	13.624	35.730		0.01	26.831	0.342	1506.	2.7
194	195.9	13.587	35.725		0.01	26.835	0.344	1506.	2.8
196	198.1	13.553	35.722		0.01	26.840	0.347	1506.	2.9
198	199.8	13.513	35.718		0.01	26.845	0.349	1506.	3.0

SHIP	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH
OC	159	30	19 NOV 1984	0825	39°58.2'N	70°31.0'W	605

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	13.459	35.708		0.01	26.848	0.352	1506.	3.0
203	204.3	13.395	35.701		0.01	26.856	0.355	1506.	2.9
204	205.9	13.318	35.691		0.00	26.864	0.357	1505.	2.9
206	208.1	13.288	35.690		0.01	26.870	0.359	1505.	2.9
208	209.8	13.275	35.690		0.01	26.872	0.361	1505.	3.0
210	212.0	13.263	35.689		0.01	26.874	0.364	1505.	3.3
212	214.2	13.214	35.682		0.00	26.879	0.367	1505.	3.4
214	216.0	13.136	35.676		0.00	26.890	0.369	1505.	3.6
216	217.8	13.081	35.672		0.00	26.898	0.371	1505.	3.7
218	220.3	12.913	35.652		0.00	26.916	0.374	1504.	3.6
220	221.9	12.835	35.635		0.01	26.919	0.376	1504.	3.3
222	224.2	12.801	35.634		0.01	26.925	0.379	1504.	2.8
224	226.0	12.749	35.626		0.01	26.930	0.381	1504.	2.3
226	228.0	12.738	35.621		0.01	26.928	0.383	1504.	1.8
228	229.7	12.735	35.621		0.01	26.928	0.385	1504.	1.9
230	232.1	12.725	35.619		0.02	26.929	0.388	1504.	2.0
232	234.0	12.694	35.615		0.02	26.932	0.390	1504.	2.6
234	236.1	12.666	35.612		0.02	26.935	0.393	1504.	3.3
236	237.9	12.607	35.605		0.03	26.941	0.395	1504.	3.7
238	240.0	12.550	35.598		0.03	26.947	0.397	1503.	4.0
240	241.9	12.357	35.576		0.05	26.968	0.399	1503.	4.1
242	243.9	12.157	35.548		0.05	26.985	0.402	1502.	4.0
244	246.0	12.066	35.532		0.06	26.990	0.404	1502.	3.8
246	248.1	12.008	35.524		0.06	26.995	0.406	1502.	3.4
248	249.9	11.941	35.516		0.06	27.002	0.408	1501.	3.0
250	252.0	11.901	35.509		0.07	27.004	0.411	1501.	2.8
252	254.1	11.850	35.502		0.07	27.008	0.413	1501.	2.7
254	256.0	11.820	35.497		0.07	27.011	0.415	1501.	2.7
256	258.0	11.775	35.495		0.06	27.018	0.417	1501.	2.8
258	259.8	11.709	35.487		0.06	27.024	0.419	1501.	3.0
260	262.0	11.660	35.476		0.05	27.024	0.422	1501.	3.5
262	264.1	11.587	35.468		0.05	27.032	0.424	1500.	3.8
264	265.8	11.543	35.467		0.05	27.039	0.426	1500.	4.0
266	268.1	11.404	35.442		0.05	27.046	0.428	1500.	4.0
268	269.9	11.220	35.440		0.06	27.078	0.430	1499.	4.1
270	272.0	11.084	35.412		0.07	27.082	0.432	1499.	4.0
272	274.0	11.019	35.401		0.07	27.085	0.434	1498.	3.7
273	275.8	10.972	35.397		0.07	27.090	0.436	1498.	3.3
276	278.2	10.882	35.388		0.06	27.100	0.439	1498.	2.9
278	279.9	10.795	35.377		0.06	27.107	0.440	1498.	3.0
280	282.1	10.768	35.367		0.06	27.104	0.443	1498.	3.0
282	284.0	10.720	35.365		0.05	27.111	0.445	1498.	2.9
284	285.9	10.624	35.351		0.05	27.117	0.447	1497.	2.9
286	288.1	10.532	35.339		0.05	27.125	0.449	1497.	2.9
287	289.8	10.496	35.337		0.05	27.129	0.450	1497.	3.3
290	292.2	10.471	35.334		0.06	27.131	0.453	1497.	3.4
291	293.7	10.422	35.334		0.06	27.140	0.454	1497.	3.8
294	296.1	10.350	35.320		0.06	27.142	0.457	1496.	3.9
296	298.0	10.180	35.314		0.06	27.167	0.458	1496.	4.0
297	299.9	10.077	35.292		0.06	27.167	0.460	1495.	4.3

SHIP	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH
OC	159	30	19 NOV 1984	0825	39°58.2'N	70°31.0'W	605

DEPTH m	PRESS dbar	TEMP °C	SALIN psu	OXY ml/l	ATN m^{-1}	SIGT gm/cm^3	DYHT A $10m^2/s^2$	S SPD m/s	N cph
299	301.9	9.947	35.294		0.06	27.191	0.462	1495.	4.3
301	303.8	9.850	35.270		0.06	27.189	0.464	1495.	4.4
304	306.1	9.784	35.267		0.06	27.198	0.466	1494.	4.3
305	307.8	9.617	35.263		0.06	27.223	0.468	1494.	4.5
307	310.1	9.424	35.226		0.06	27.227	0.470	1493.	4.4
309	311.9	9.314	35.216		0.06	27.237	0.471	1493.	4.5
312	314.3	9.180	35.212		0.06	27.255	0.473	1492.	4.4
313	315.8	9.052	35.201		0.05	27.267	0.475	1492.	4.1
315	318.1	8.929	35.183		0.06	27.273	0.477	1491.	4.1
317	320.0	8.853	35.185		0.06	27.287	0.478	1491.	3.9
319	322.2	8.797	35.179		0.06	27.292	0.480	1491.	3.7
321	323.9	8.750	35.175		0.06	27.296	0.482	1491.	3.6
323	325.9	8.678	35.172		0.05	27.305	0.483	1491.	3.5
325	327.9	8.558	35.165		0.05	27.318	0.485	1490.	3.3
327	329.9	8.485	35.156		0.05	27.323	0.486	1490.	3.1
329	332.1	8.435	35.152		0.05	27.327	0.488	1490.	2.8
331	333.9	8.393	35.149		0.05	27.331	0.490	1490.	2.4
333	335.9	8.363	35.145		0.05	27.333	0.491	1490.	2.1
335	338.1	8.346	35.142		0.05	27.333	0.493	1490.	2.0
337	339.9	8.339	35.143		0.05	27.335	0.494	1490.	2.3
339	342.3	8.305	35.140		0.05	27.337	0.496	1489.	2.4
341	343.9	8.277	35.138		0.05	27.340	0.498	1489.	2.5
343	346.0	8.228	35.133		0.04	27.344	0.499	1489.	2.6
345	347.8	8.166	35.138		0.04	27.357	0.501	1489.	2.7
347	350.0	8.113	35.127		0.05	27.357	0.502	1489.	2.8
349	352.1	8.094	35.125		0.04	27.358	0.504	1489.	2.9
351	354.1	8.071	35.125		0.04	27.362	0.505	1489.	2.9
353	356.0	8.022	35.125		0.05	27.369	0.507	1489.	2.8
355	357.9	7.931	35.117		0.04	27.377	0.508	1488.	3.0
357	360.0	7.876	35.113		0.04	27.381	0.510	1488.	3.1
359	362.0	7.836	35.113		0.04	27.388	0.511	1488.	3.1
361	364.0	7.801	35.109		0.04	27.390	0.513	1488.	3.0
363	365.9	7.754	35.107		0.04	27.395	0.514	1488.	3.0
365	368.0	7.695	35.109		0.04	27.405	0.516	1488.	3.0
367	370.1	7.617	35.099		0.05	27.409	0.517	1487.	3.0
369	372.0	7.586	35.097		0.05	27.412	0.519	1487.	2.9
371	374.2	7.543	35.098		0.05	27.419	0.520	1487.	2.7
373	375.9	7.502	35.096		0.05	27.423	0.522	1487.	2.3
375	378.0	7.468	35.093		0.05	27.426	0.523	1487.	2.1
377	379.9	7.444	35.091		0.05	27.428	0.524	1487.	1.9
379	382.0	7.437	35.090		0.05	27.428	0.526	1487.	1.8
381	384.0	7.435	35.090		0.05	27.428	0.527	1487.	1.8
383	385.8	7.431	35.090		0.05	27.429	0.529	1487.	2.1
385	388.1	7.403	35.091		0.06	27.433	0.530	1487.	2.2
387	390.0	7.350	35.087		0.06	27.438	0.532	1487.	2.4
389	392.0	7.318	35.084		0.06	27.441	0.533	1486.	2.5
390	393.9	7.288	35.086		0.06	27.447	0.534	1486.	2.6
393	396.0	7.250	35.082		0.06	27.449	0.536	1486.	2.6
395	398.0	7.212	35.080		0.06	27.452	0.537	1486.	2.6
396	399.8	7.178	35.078		0.06	27.456	0.538	1486.	2.6

SHIP	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH
OC	159	30	19 NOV 1984	0825	39°58.2'N	70°31.0'W	605

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	402.3	7.115	35.075		0.06	27.462	0.540	1486.	2.5
400	403.9	7.084	35.073		0.06	27.465	0.541	1486.	2.5
403	406.1	7.060	35.072		0.06	27.468	0.543	1486.	2.5
404	407.9	7.033	35.073		0.06	27.472	0.544	1486.	2.5
406	409.9	7.011	35.070		0.06	27.473	0.545	1486.	2.3
408	412.0	6.965	35.069		0.06	27.479	0.546	1485.	2.3
411	414.3	6.918	35.066		0.07	27.482	0.548	1485.	2.3
412	415.9	6.897	35.065		0.07	27.485	0.549	1485.	2.4
415	418.1	6.885	35.064		0.07	27.485	0.551	1485.	2.5
416	420.0	6.864	35.063		0.08	27.488	0.552	1485.	2.4
418	421.8	6.810	35.064		0.08	27.496	0.553	1485.	2.4
420	424.1	6.758	35.058		0.08	27.499	0.554	1485.	2.5
422	426.0	6.729	35.058		0.08	27.502	0.556	1485.	2.7
424	428.1	6.721	35.057		0.08	27.502	0.557	1485.	2.7
426	429.9	6.700	35.057		0.08	27.505	0.558	1485.	2.7
428	431.9	6.647	35.063		0.08	27.518	0.559	1484.	3.1
430	434.1	6.553	35.049		0.09	27.519	0.561	1484.	3.3
432	436.0	6.520	35.048		0.09	27.523	0.562	1484.	3.5
434	438.0	6.469	35.050		0.10	27.531	0.563	1484.	3.5
436	439.9	6.347	35.051		0.10	27.548	0.564	1483.	3.3
438	442.3	6.236	35.036		0.11	27.550	0.566	1483.	3.3
440	444.0	6.200	35.034		0.11	27.554	0.567	1483.	3.3
442	445.8	6.180	35.037		0.11	27.559	0.568	1483.	3.2
444	448.1	6.155	35.034		0.11	27.560	0.569	1483.	3.0
446	449.7	6.083	35.034		0.10	27.570	0.570	1482.	3.0
448	452.1	5.977	35.027		0.10	27.577	0.571	1482.	2.8
450	454.0	5.918	35.028		0.09	27.586	0.572	1482.	2.6
452	456.2	5.897	35.023		0.10	27.584	0.574	1482.	2.2
454	457.8	5.883	35.022		0.09	27.585	0.575	1482.	1.8
456	460.1	5.878	35.021		0.09	27.585	0.576	1482.	1.4
458	461.8	5.877	35.021		0.09	27.586	0.577	1482.	1.1
460	464.1	5.871	35.021		0.09	27.586	0.578	1482.	1.3
462	466.0	5.860	35.022		0.09	27.588	0.579	1482.	1.5
464	468.1	5.849	35.021		0.09	27.589	0.580	1482.	1.7
466	470.2	5.831	35.020		0.09	27.590	0.581	1482.	1.8
468	471.9	5.817	35.020		0.09	27.592	0.582	1482.	2.0
470	474.1	5.773	35.016		0.09	27.595	0.584	1482.	2.0
472	476.0	5.727	35.015		0.10	27.599	0.585	1481.	2.1
474	478.0	5.723	35.016		0.09	27.600	0.586	1482.	2.1
476	480.0	5.706	35.017		0.10	27.604	0.587	1481.	2.1
478	481.9	5.682	35.014		0.09	27.604	0.588	1481.	2.0
480	484.2	5.654	35.013		0.09	27.607	0.589	1481.	2.0
482	486.0	5.634	35.013		0.09	27.609	0.590	1481.	2.0
484	487.8	5.605	35.013		0.09	27.613	0.591	1481.	2.0
486	490.2	5.579	35.010		0.09	27.614	0.592	1481.	2.0
488	491.9	5.556	35.012		0.09	27.618	0.593	1481.	2.1
490	494.2	5.534	35.009		0.09	27.619	0.594	1481.	2.2
492	495.9	5.522	35.009		0.09	27.620	0.595	1481.	2.2
494	498.1	5.479	35.006		0.07	27.623	0.596	1481.	2.2
496	500.1	5.425	35.006		0.07	27.630	0.597	1481.	2.2

SHIP	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH
OC	159	30	19 NOV 1984	0825	39°58.2'N	70°31.0'W	605

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
515	519.8	5.223	34.996		0.08	27.646	0.607	1480.	1.4
535	540.0	5.126	34.993		0.10	27.655	0.617	1480.	0.8
555	560.1	5.113	34.993		0.12	27.656	0.627	1480.	0.8
575	580.2	5.083	34.991		0.14	27.659	0.637	1481.	0.4

SHIP	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH
OC	159	31	19 NOV 1984	1122	39°48.6'N	70°00.7'W	1370

DEPTH m	PRESS dbsr	TEMP °C	SALIN psu	OXY ml/l	ATN m^{-1}	SIGT gm/cm^3	DYHT A $10m^2/s^2$	S SPD m/s	N cph
3	2.6	15.967	34.360		0.11	25.263	0.000	1509.	-1.3
4	3.8	16.015	34.355		0.08	25.248	0.003	1509.	-1.3
6	6.0	16.019	34.356		0.08	25.249	0.009	1509.	-1.3
8	7.9	16.033	34.358		0.08	25.247	0.014	1509.	-1.3
10	9.9	16.047	34.363		0.08	25.247	0.020	1509.	-1.3
12	11.9	16.056	34.364		0.08	25.246	0.025	1509.	0.2
14	14.3	16.046	34.362		0.08	25.248	0.032	1509.	-1.0
16	15.8	16.050	34.363		0.08	25.247	0.036	1509.	-0.5
18	18.0	16.084	34.373		0.08	25.247	0.042	1510.	1.2
20	20.1	16.072	34.372		0.08	25.249	0.047	1510.	-1.3
22	22.0	16.203	34.394		0.07	25.236	0.053	1510.	-1.2
24	23.9	16.424	34.480		0.07	25.251	0.058	1511.	1.8
26	26.2	16.496	34.515		0.07	25.261	0.064	1511.	3.1
28	27.9	16.859	34.571		0.07	25.219	0.069	1512.	3.9
30	30.1	17.235	34.722		0.07	25.246	0.075	1514.	4.5
32	32.0	17.437	34.839		0.07	25.287	0.080	1514.	4.6
34	34.0	17.532	34.902		0.07	25.312	0.085	1515.	4.7
36	36.3	17.593	34.939		0.07	25.326	0.091	1515.	4.6
38	38.0	17.671	34.965		0.07	25.327	0.096	1515.	3.7
40	39.9	17.704	34.979		0.07	25.330	0.101	1516.	2.6
42	42.0	17.711	34.985		0.06	25.333	0.106	1516.	1.8
44	43.9	17.734	34.991		0.06	25.331	0.111	1516.	1.4
46	45.9	17.788	35.008		0.06	25.332	0.117	1516.	1.5
48	48.1	17.819	35.021		0.06	25.334	0.123	1516.	1.7
50	50.0	17.831	35.027		0.06	25.335	0.128	1516.	2.2
52	52.1	17.830	35.028		0.06	25.337	0.133	1516.	2.4
54	53.9	17.799	35.023		0.06	25.340	0.138	1516.	2.5
56	56.0	17.730	35.008		0.07	25.346	0.143	1516.	2.8
57	57.7	17.482	34.950		0.08	25.361	0.148	1515.	3.2
60	60.0	17.371	34.907		0.07	25.355	0.154	1515.	3.9
62	62.1	17.399	34.920		0.06	25.359	0.160	1515.	4.9
64	64.0	17.426	34.947		0.05	25.372	0.164	1515.	6.3
65	65.8	17.317	34.941		0.05	25.394	0.169	1515.	7.6
67	68.0	17.140	34.925		0.05	25.424	0.175	1514.	9.2
70	70.1	16.663	34.864		0.04	25.490	0.180	1513.	10.5
72	72.1	15.772	34.724		0.05	25.588	0.185	1510.	11.1
73	73.9	15.911	34.862		0.04	25.662	0.189	1511.	11.5
76	76.2	16.542	35.225		0.03	25.796	0.194	1513.	11.7
77	77.9	16.840	35.450		0.02	25.898	0.198	1514.	11.6
79	80.0	16.865	35.507		0.02	25.936	0.203	1514.	10.9
81	81.9	16.392	35.451		0.02	26.005	0.206	1513.	10.0
84	84.2	15.371	35.291		0.03	26.115	0.211	1510.	8.9
85	85.9	14.429	35.077		0.02	26.156	0.214	1506.	7.9
87	87.9	14.186	35.009		0.02	26.155	0.218	1506.	7.0
89	90.2	14.036	34.993		0.02	26.175	0.222	1505.	5.6
91	92.0	13.966	34.986		0.02	26.184	0.226	1505.	4.0
93	93.9	13.908	34.989		0.02	26.198	0.229	1505.	4.6
95	95.9	13.870	34.980		0.02	26.200	0.233	1505.	6.0
97	98.0	13.966	35.008		0.02	26.201	0.237	1505.	7.0
99	99.8	14.571	35.177		0.02	26.203	0.240	1507.	7.7

SHIP	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH
OC	159	31	19 NOV 1984	1122	39°48.6'N	70°00.7'W	1370

DEPTH m	PRESS dbar	TEMP °C	SALIN psu	OXY ml/l	ATN m^{-1}	SIGT gm/cm^3	DYHT A $10m^2/s^2$	S SPD m/s	N cph
101	102.0	15.343	35.533		0.02	26.308	0.244	1510.	7.9
103	104.1	15.889	35.805		0.01	26.393	0.247	1512.	7.9
105	105.9	15.597	35.768		0.01	26.431	0.250	1511.	7.6
107	107.9	15.447	35.746		0.01	26.449	0.254	1511.	6.7
109	110.0	15.254	35.691		0.01	26.449	0.257	1510.	5.4
111	112.2	15.135	35.670		0.01	26.459	0.260	1510.	4.7
113	113.7	15.035	35.653		0.01	26.469	0.263	1509.	4.6
115	116.0	15.037	35.656		0.01	26.471	0.266	1509.	4.8
117	118.1	15.053	35.700		0.01	26.501	0.270	1510.	5.1
119	120.0	14.947	35.715		0.01	26.536	0.273	1509.	5.1
121	122.1	14.916	35.712		0.01	26.541	0.276	1509.	5.1
123	124.0	14.957	35.744		0.01	26.556	0.279	1509.	5.0
125	125.8	15.011	35.775		0.01	26.568	0.282	1510.	4.8
127	128.1	15.059	35.806		0.01	26.582	0.285	1510.	4.5
129	129.8	15.021	35.813		0.01	26.595	0.287	1510.	4.5
131	132.3	14.921	35.804		0.01	26.611	0.291	1510.	4.4
133	133.9	14.806	35.795		0.01	26.628	0.293	1509.	4.4
135	135.9	14.790	35.791		0.01	26.629	0.296	1509.	4.4
137	138.0	14.756	35.790		0.01	26.636	0.299	1509.	4.3
139	140.2	14.541	35.757		0.00	26.658	0.302	1508.	4.2
141	141.9	14.404	35.736		0.00	26.671	0.305	1508.	4.1
143	143.8	14.358	35.731		0.00	26.677	0.308	1508.	4.1
145	146.3	14.358	35.744		0.00	26.687	0.311	1508.	4.2
147	148.0	14.378	35.765		0.00	26.698	0.313	1508.	4.2
149	149.9	14.412	35.782		0.00	26.704	0.316	1508.	4.2
151	152.1	14.423	35.799		0.00	26.715	0.319	1508.	4.1
153	153.8	14.361	35.810		0.00	26.737	0.321	1508.	3.9
155	156.1	14.321	35.814		0.00	26.749	0.324	1508.	3.6
157	157.8	14.234	35.796		0.01	26.753	0.327	1508.	3.2
159	160.1	14.167	35.775		0.01	26.752	0.330	1508.	2.9
161	161.9	14.143	35.775		0.01	26.757	0.332	1508.	2.7
163	164.0	14.141	35.772		0.01	26.755	0.335	1508.	2.7
165	165.9	14.147	35.781		0.01	26.761	0.337	1508.	3.0
167	168.1	14.070	35.776		0.01	26.773	0.340	1507.	3.2
169	169.9	14.061	35.782		0.00	26.780	0.343	1507.	3.3
171	172.1	14.050	35.786		0.00	26.785	0.345	1507.	3.4
173	173.9	14.002	35.785		0.00	26.794	0.348	1507.	3.5
175	176.1	13.967	35.779		0.00	26.797	0.351	1507.	3.6
176	177.7	13.879	35.764		0.01	26.804	0.353	1507.	3.8
179	180.2	13.792	35.752		0.01	26.813	0.356	1507.	4.1
180	181.8	13.729	35.751		0.00	26.826	0.358	1506.	4.2
183	184.2	13.573	35.726		0.01	26.838	0.361	1506.	4.3
184	186.0	13.349	35.689		0.02	26.856	0.363	1505.	4.2
186	188.0	13.176	35.653		0.03	26.864	0.366	1505.	4.1
188	190.0	13.068	35.641		0.03	26.876	0.368	1504.	3.8
190	191.8	13.022	35.636		0.03	26.882	0.370	1504.	3.5
193	194.3	12.979	35.631		0.03	26.887	0.373	1504.	3.1
194	195.8	12.941	35.630		0.02	26.893	0.375	1504.	2.9
196	198.1	12.898	35.623		0.03	26.897	0.378	1504.	2.9
199	200.2	12.864	35.620		0.03	26.902	0.380	1504.	3.0

SHIP	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH
OC	159	31	19 NOV 1984	1122	39°48.6'N	70°00.7'W	1370

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	12.854	35.620		0.03	26.903	0.383	1504.	3.1
202	204.0	12.825	35.622		0.02	26.911	0.385	1504.	3.2
204	205.9	12.748	35.619		0.02	26.924	0.387	1503.	3.4
206	208.2	12.686	35.605		0.02	26.925	0.390	1503.	3.6
208	209.6	12.621	35.596		0.02	26.931	0.391	1503.	3.7
211	212.3	12.491	35.582		0.02	26.947	0.395	1503.	3.7
212	214.0	12.428	35.574		0.02	26.952	0.396	1502.	3.7
214	215.9	12.358	35.569		0.02	26.962	0.399	1502.	4.1
216	217.9	12.279	35.555		0.02	26.967	0.401	1502.	4.1
218	220.1	12.163	35.539		0.02	26.977	0.403	1502.	4.0
220	221.7	11.999	35.516		0.02	26.991	0.405	1501.	4.0
222	224.0	11.892	35.517		0.02	27.012	0.408	1501.	4.1
224	226.0	11.808	35.499		0.02	27.014	0.410	1500.	3.8
226	228.2	11.764	35.490		0.02	27.016	0.412	1500.	3.5
228	230.1	11.706	35.491		0.02	27.027	0.414	1500.	3.2
230	231.9	11.623	35.491		0.02	27.043	0.416	1500.	3.1
232	234.1	11.571	35.467		0.02	27.034	0.419	1500.	3.2
234	236.1	11.522	35.462		0.02	27.040	0.421	1500.	3.3
236	237.9	11.441	35.451		0.02	27.046	0.423	1499.	3.2
238	240.1	11.327	35.439		0.02	27.058	0.425	1499.	3.2
240	241.8	11.246	35.429		0.02	27.065	0.427	1499.	3.4
242	244.1	11.163	35.422		0.02	27.075	0.429	1498.	3.3
244	245.9	11.118	35.409		0.02	27.073	0.431	1498.	3.2
246	248.0	11.052	35.402		0.03	27.080	0.433	1498.	3.2
248	249.9	11.000	35.399		0.02	27.087	0.435	1498.	3.3
250	252.1	10.934	35.389		0.02	27.091	0.437	1498.	3.5
252	253.8	10.846	35.382		0.02	27.101	0.439	1497.	3.6
254	256.1	10.684	35.354		0.01	27.109	0.442	1497.	3.6
256	257.8	10.558	35.336		0.01	27.117	0.443	1496.	3.6
258	260.1	10.438	35.324		0.01	27.129	0.446	1496.	3.5
260	261.9	10.395	35.318		0.00	27.132	0.447	1496.	3.3
262	264.0	10.340	35.312		0.00	27.137	0.449	1496.	3.0
264	266.0	10.289	35.310		0.00	27.144	0.451	1496.	2.7
266	268.0	10.242	35.305		0.00	27.148	0.453	1495.	2.6
268	270.0	10.198	35.298		0.00	27.151	0.455	1495.	2.4
270	272.0	10.174	35.294		0.00	27.152	0.457	1495.	2.3
272	274.0	10.160	35.294		0.00	27.154	0.459	1495.	2.3
274	276.0	10.110	35.292		0.00	27.162	0.461	1495.	2.5
276	278.0	10.080	35.285		0.00	27.161	0.463	1495.	2.6
278	280.1	10.046	35.281		0.00	27.164	0.465	1495.	2.7
280	281.9	9.992	35.278		0.00	27.171	0.467	1495.	2.8
282	284.0	9.915	35.272		0.00	27.179	0.469	1495.	2.7
284	286.2	9.836	35.256		0.00	27.181	0.471	1494.	2.7
285	287.8	9.773	35.251		0.00	27.187	0.472	1494.	2.8
288	290.0	9.744	35.249		0.00	27.191	0.474	1494.	2.9
289	291.9	9.719	35.243		0.00	27.190	0.476	1494.	3.0
291	293.9	9.695	35.245		0.00	27.196	0.478	1494.	3.0
294	296.0	9.589	35.234		0.00	27.205	0.480	1494.	2.9
295	297.9	9.482	35.227		0.00	27.217	0.481	1493.	2.8
297	299.9	9.432	35.220		0.00	27.220	0.483	1493.	2.7

SHIP	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH
OC	159	31	19 NOV 1984	1122	39°48.6'N	70°00.7'W	1370

DEPTH m	PRESS dbar	TEMP °C	SALIN psu	OXY ml/l	ATN m^{-1}	SIGT gm/cm^3	DYHT A $10m^2/s^2$	S SPD m/s	N cph
300	302.1	9.417	35.215		0.00	27.219	0.485	1493.	2.5
301	303.9	9.398	35.212		0.00	27.220	0.487	1493.	2.5
303	306.0	9.365	35.211		0.00	27.224	0.489	1493.	2.6
305	308.0	9.338	35.207		0.00	27.225	0.491	1493.	2.8
307	310.0	9.252	35.199		0.00	27.234	0.492	1492.	2.9
309	312.1	9.178	35.197		0.00	27.244	0.494	1492.	2.9
311	313.9	9.100	35.188		0.00	27.250	0.496	1492.	2.7
313	316.1	9.047	35.180		0.00	27.252	0.498	1492.	2.6
315	317.9	9.033	35.178		0.00	27.253	0.499	1492.	2.4
317	320.0	9.022	35.178		0.00	27.255	0.501	1492.	2.1
319	322.2	9.014	35.178		0.00	27.255	0.503	1492.	2.0
321	323.8	8.967	35.175		0.00	27.261	0.504	1492.	2.3
323	326.0	8.929	35.173		0.00	27.266	0.506	1492.	2.4
325	328.2	8.918	35.169		0.00	27.264	0.508	1491.	2.5
327	329.8	8.886	35.169		0.00	27.270	0.510	1491.	2.5
329	332.0	8.819	35.167		0.00	27.278	0.511	1491.	2.5
331	334.3	8.783	35.160		0.00	27.279	0.513	1491.	2.4
333	335.9	8.750	35.159		0.00	27.283	0.515	1491.	2.3
335	338.0	8.732	35.157		0.00	27.285	0.517	1491.	2.3
337	339.9	8.710	35.157		0.00	27.288	0.518	1491.	2.2
339	342.1	8.693	35.156		0.00	27.290	0.520	1491.	2.2
341	343.8	8.679	35.154		0.00	27.290	0.521	1491.	2.1
343	346.0	8.636	35.156		0.00	27.299	0.523	1491.	2.3
345	348.2	8.613	35.152		0.00	27.299	0.525	1491.	2.4
347	350.0	8.591	35.151		0.01	27.302	0.527	1491.	2.5
349	352.2	8.575	35.149		0.01	27.303	0.528	1491.	2.6
351	353.8	8.514	35.148		0.01	27.311	0.530	1490.	2.8
353	356.0	8.461	35.144		0.01	27.317	0.531	1490.	2.9
355	358.0	8.437	35.144		0.01	27.320	0.533	1490.	3.2
357	360.0	8.416	35.141		0.01	27.322	0.535	1490.	3.2
359	362.0	8.348	35.149		0.01	27.338	0.536	1490.	3.1
361	364.0	8.286	35.136		0.01	27.337	0.538	1490.	3.1
363	366.0	8.207	35.138		0.01	27.351	0.539	1489.	2.9
365	368.1	8.171	35.130		0.01	27.351	0.541	1489.	2.6
367	370.0	8.141	35.128		0.01	27.353	0.543	1489.	2.2
369	372.0	8.116	35.127		0.01	27.357	0.544	1489.	2.1
371	374.1	8.112	35.125		0.01	27.355	0.546	1489.	2.2
373	375.9	8.103	35.125		0.01	27.357	0.547	1489.	2.5
375	378.0	8.071	35.126		0.01	27.363	0.549	1489.	2.6
377	380.0	8.030	35.120		0.01	27.364	0.550	1489.	2.8
379	382.0	7.948	35.121		0.01	27.377	0.552	1489.	3.0
381	383.9	7.888	35.114		0.01	27.380	0.553	1489.	3.1
383	386.1	7.844	35.111		0.01	27.385	0.555	1488.	3.1
385	388.0	7.808	35.111		0.01	27.390	0.556	1488.	2.9
387	390.1	7.771	35.110		0.01	27.395	0.558	1488.	2.7
389	391.9	7.725	35.108		0.01	27.400	0.559	1488.	2.6
391	394.0	7.671	35.106		0.01	27.406	0.561	1488.	2.5
393	396.0	7.653	35.098		0.01	27.403	0.562	1488.	2.3
395	397.9	7.613	35.102		0.01	27.412	0.564	1488.	2.1
397	400.1	7.585	35.097		0.01	27.412	0.565	1488.	2.0

SHIP	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH
OC	159	31	19 NOV 1984	1122	39°48.6'N	70°00.7'W	1370

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	7.564	35.095		0.01	27.413	0.567	1488.	1.9
401	404.0	7.548	35.094		0.01	27.415	0.568	1488.	2.0
402	406.0	7.532	35.094		0.01	27.417	0.570	1487.	2.0
405	408.1	7.513	35.093		0.01	27.419	0.571	1487.	2.3
406	409.9	7.478	35.089		0.01	27.421	0.572	1487.	2.4
409	412.1	7.434	35.086		0.01	27.425	0.574	1487.	2.5
410	414.0	7.386	35.085		0.01	27.432	0.575	1487.	2.7
412	416.0	7.345	35.086		0.01	27.438	0.577	1487.	2.6
414	418.1	7.318	35.082		0.01	27.439	0.578	1487.	2.8
416	419.8	7.289	35.077		0.01	27.439	0.579	1487.	2.9
418	422.0	7.212	35.078		0.01	27.450	0.581	1487.	3.0
420	424.1	7.159	35.065		0.01	27.448	0.582	1486.	2.9
422	425.9	7.074	35.065		0.01	27.460	0.584	1486.	2.9
424	428.0	7.031	35.067		0.01	27.468	0.585	1486.	2.8
426	429.9	7.007	35.068		0.01	27.472	0.586	1486.	2.6
428	432.1	6.993	35.065		0.01	27.472	0.588	1486.	2.4
430	434.0	6.975	35.064		0.01	27.473	0.589	1486.	2.3
432	435.9	6.958	35.066		0.01	27.477	0.590	1486.	2.2
434	438.1	6.929	35.063		0.01	27.479	0.592	1486.	2.2
436	439.9	6.896	35.061		0.01	27.481	0.593	1486.	2.3
438	442.0	6.848	35.063		0.01	27.490	0.594	1485.	2.2
440	444.1	6.826	35.058		0.01	27.489	0.596	1485.	2.2
442	445.9	6.808	35.057		0.01	27.491	0.597	1485.	2.1
444	448.2	6.778	35.055		0.01	27.493	0.598	1485.	1.9
446	449.8	6.749	35.053		0.01	27.495	0.600	1485.	1.8
448	452.0	6.721	35.052		0.01	27.499	0.601	1485.	1.9
450	453.9	6.706	35.050		0.01	27.499	0.602	1485.	1.9
452	456.2	6.689	35.048		0.01	27.500	0.604	1485.	1.8
454	457.8	6.649	35.044		0.01	27.502	0.605	1485.	1.7
456	460.1	6.622	35.045		0.01	27.507	0.606	1485.	1.6
458	462.0	6.618	35.044		0.01	27.506	0.607	1485.	1.6
460	464.0	6.614	35.044		0.01	27.507	0.609	1485.	1.7
462	466.1	6.609	35.045		0.01	27.508	0.610	1485.	1.8
464	467.9	6.600	35.044		0.01	27.509	0.611	1485.	1.9
466	470.1	6.586	35.043		0.01	27.510	0.613	1485.	2.2
468	471.9	6.534	35.044		0.01	27.518	0.614	1485.	2.3
470	474.1	6.495	35.039		0.01	27.519	0.615	1485.	2.4
472	475.9	6.452	35.037		0.00	27.523	0.616	1484.	2.4
474	478.1	6.407	35.035		0.00	27.527	0.618	1484.	2.3
476	479.9	6.392	35.035		0.00	27.529	0.619	1484.	2.1
478	482.1	6.381	35.034		0.00	27.530	0.620	1484.	2.1
480	483.9	6.364	35.036		0.00	27.534	0.621	1484.	2.0
482	486.1	6.341	35.033		0.00	27.535	0.622	1484.	2.1
484	487.9	6.313	35.030		0.00	27.536	0.624	1484.	2.2
486	490.1	6.278	35.031		0.00	27.541	0.625	1484.	2.2
488	492.0	6.256	35.030		0.00	27.543	0.626	1484.	2.1
490	494.1	6.229	35.031		0.00	27.548	0.627	1484.	2.0
492	496.0	6.211	35.031		0.00	27.550	0.628	1484.	1.9
494	498.0	6.190	35.028		0.00	27.551	0.630	1484.	1.7
496	500.1	6.175	35.028		0.00	27.552	0.631	1484.	1.6

SHIP	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH
OC	159	31	19 NOV 1984	1122	39°48.6'N	70°00.7'W	1370

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
516	520.1	6.053	35.023		0.00	27.564	0.643	1484.	1.7
535	540.2	5.941	35.019		0.00	27.575	0.654	1483.	1.3
555	559.9	5.851	35.018		0.00	27.586	0.666	1483.	1.5
575	579.9	5.639	35.014		0.00	27.609	0.677	1483.	2.4
594	599.9	5.482	35.008		0.00	27.624	0.688	1483.	2.0
614	620.0	5.308	35.003		0.00	27.642	0.698	1482.	1.3
634	640.0	5.273	35.002		0.00	27.644	0.709	1482.	1.1
654	660.0	5.221	35.000		0.00	27.649	0.719	1482.	0.7
674	680.0	5.103	34.997		0.00	27.661	0.729	1482.	1.1
693	699.9	5.048	34.995		0.00	27.666	0.739	1482.	1.8
713	720.1	4.917	34.990		0.00	27.677	0.749	1482.	0.6
733	740.0	4.892	34.989		0.00	27.679	0.759	1482.	0.8
753	760.0	4.851	34.987		0.00	27.683	0.769	1483.	1.0
773	780.1	4.815	34.985		0.00	27.685	0.779	1483.	0.9
792	800.0	4.695	34.978		0.02	27.693	0.788	1483.	0.9
812	819.9	4.658	34.976		0.02	27.695	0.798	1483.	1.0
832	840.0	4.524	34.972		0.01	27.707	0.807	1483.	1.6
852	860.0	4.427	34.968		0.01	27.715	0.817	1482.	0.6
871	879.7	4.438	34.967		0.01	27.713	0.826	1483.	-0.8
891	900.0	4.447	34.967		0.01	27.712	0.835	1483.	0.8
911	920.1	4.414	34.967		0.01	27.715	0.845	1483.	0.4
931	940.2	4.373	34.964		0.01	27.718	0.854	1484.	0.9
950	959.8	4.374	34.965		0.01	27.719	0.863	1484.	0.3
970	980.0	4.397	34.965		0.01	27.716	0.872	1484.	-0.5
990	1000.0	4.398	34.966		0.01	27.717	0.882	1485.	-0.2
1010	1020.1	4.380	34.965		0.01	27.718	0.891	1485.	0.8
1030	1040.1	4.342	34.964		0.01	27.721	0.901	1485.	0.8
1049	1060.0	4.288	34.962		0.01	27.725	0.910	1485.	0.6
1069	1080.0	4.271	34.961		0.01	27.726	0.920	1485.	0.5
1089	1099.9	4.270	34.961		0.01	27.726	0.929	1486.	0.0
1108	1119.9	4.272	34.961		0.01	27.726	0.938	1486.	0.3
1128	1140.0	4.260	34.960		0.01	27.727	0.948	1486.	0.6
1148	1160.0	4.245	34.961		0.01	27.729	0.957	1487.	0.8
1168	1179.9	4.229	34.960		0.01	27.730	0.967	1487.	0.3
1187	1200.0	4.221	34.960		0.01	27.731	0.976	1487.	0.4
1207	1219.9	4.211	34.959		0.01	27.732	0.986	1488.	0.4
1227	1240.1	4.217	34.960		0.01	27.731	0.995	1488.	0.5
1247	1260.2	4.207	34.959		0.01	27.732	1.005	1488.	0.5
1266	1279.9	4.176	34.958		0.01	27.735	1.014	1488.	0.8
1286	1300.0	4.161	34.959		0.01	27.736	1.024	1489.	0.6
1306	1319.9	4.127	34.957		0.01	27.739	1.034	1489.	0.8
1326	1340.1	4.118	34.957		0.01	27.740	1.043	1489.	0.6
1345	1360.1	4.111	34.957		0.01	27.740	1.053	1489.	0.3

SHIP	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH
OC	159	33	19 NOV 1984	1242	39°48.5'N	69°58.6'W	1165

DEPTH m	PRESS dbar	TEMP °C	SALIN psu	OXY ml/l	ATN m^{-1}	SIGT gm/cm^3	DYHT A $10m^2/s^2$	S SPD m/s	N cph
2	1.9	14.931	33.958		0.11	25.184	0.000	1505.	0.6
4	4.1	14.940	33.961		0.11	25.185	0.006	1505.	0.6
6	5.9	14.946	33.960		0.11	25.182	0.011	1505.	0.6
8	8.1	14.932	33.958		0.11	25.184	0.017	1505.	0.6
10	9.9	14.977	33.966		0.10	25.180	0.022	1506.	0.6
12	12.0	14.989	33.972		0.10	25.182	0.028	1506.	1.5
14	14.2	15.000	33.971		0.10	25.180	0.034	1506.	2.0
16	15.9	15.068	33.991		0.09	25.180	0.039	1506.	2.3
18	17.7	15.182	34.039		0.07	25.192	0.044	1506.	2.5
20	19.9	15.298	34.082		0.06	25.200	0.050	1507.	2.5
22	21.8	15.365	34.106		0.06	25.203	0.055	1507.	2.3
24	24.0	15.327	34.097		0.06	25.205	0.061	1507.	2.0
26	25.8	15.302	34.090		0.06	25.205	0.066	1507.	1.3
28	28.0	15.296	34.088		0.06	25.205	0.072	1507.	1.4
30	30.2	15.294	34.088		0.06	25.205	0.078	1507.	1.8
32	32.1	15.295	34.088		0.06	25.205	0.084	1507.	2.2
34	33.8	15.323	34.093		0.05	25.202	0.088	1507.	2.8
36	35.9	15.432	34.146		0.05	25.219	0.094	1508.	3.2
38	38.0	15.555	34.187		0.06	25.223	0.100	1508.	3.5
40	39.9	15.712	34.242		0.06	25.230	0.105	1509.	3.8
42	42.0	15.814	34.294		0.06	25.248	0.111	1509.	4.0
44	44.2	15.849	34.310		0.06	25.252	0.117	1509.	4.3
45	45.8	15.862	34.321		0.06	25.257	0.121	1509.	5.2
48	48.1	15.852	34.341		0.06	25.275	0.127	1509.	6.1
50	50.1	15.821	34.357		0.06	25.294	0.133	1509.	7.0
51	51.8	15.824	34.390		0.05	25.319	0.137	1509.	7.6
54	54.1	15.638	34.418		0.05	25.383	0.144	1509.	7.9
56	56.1	15.352	34.406		0.05	25.437	0.149	1508.	8.3
58	58.2	14.877	34.359		0.05	25.505	0.154	1506.	8.7
59	59.8	14.755	34.336		0.05	25.514	0.158	1506.	9.2
62	62.2	14.643	34.346		0.05	25.546	0.164	1506.	9.8
63	63.9	14.742	34.451		0.05	25.606	0.168	1506.	10.5
66	66.1	15.601	34.819		0.04	25.700	0.173	1509.	11.0
68	68.0	15.681	34.958		0.04	25.789	0.177	1510.	11.4
69	69.9	15.738	35.128		0.04	25.907	0.181	1510.	11.2
72	72.1	15.606	35.212		0.04	26.001	0.186	1510.	10.4
73	73.8	15.569	35.279		0.04	26.061	0.189	1510.	9.6
75	76.1	15.356	35.297		0.04	26.123	0.194	1509.	8.7
77	77.7	15.461	35.308		0.04	26.108	0.197	1510.	7.6
80	80.3	16.356	35.606		0.03	26.133	0.202	1513.	6.7
81	82.1	16.868	35.850		0.02	26.199	0.205	1515.	6.3
83	83.9	16.984	35.905		0.02	26.214	0.209	1515.	6.3
85	85.9	17.010	35.931		0.02	26.228	0.212	1515.	6.6
87	88.0	17.026	35.954		0.01	26.242	0.216	1515.	6.7
89	90.0	16.999	35.982		0.01	26.270	0.219	1515.	6.5
91	91.9	16.893	36.014		0.01	26.320	0.223	1515.	6.7
93	94.0	16.833	36.021		0.01	26.339	0.226	1515.	6.7
95	95.9	16.572	36.006		0.01	26.390	0.230	1514.	6.6
97	98.1	16.240	35.916		0.01	26.398	0.233	1513.	6.1
99	100.0	16.192	35.933		0.01	26.422	0.236	1513.	5.6

SHIP	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH
OC	159	33	19 NOV 1984	1242	39°48.5'N	69°58.6'W	1165

DEPTH m	PRESS dbar	TEMP °C	SALIN psu	OXY ml/l	ATN m^{-1}	SIGT gm/cm^3	DYHT A $10m^2/s^2$	S SPD m/s	N cph
101	102.0	16.141	35.945		0.01	26.443	0.240	1513.	5.2
103	103.9	16.092	35.945		0.01	26.454	0.243	1513.	4.6
105	106.1	16.027	35.939		0.01	26.465	0.246	1513.	4.5
107	107.8	15.917	35.920		0.01	26.475	0.249	1512.	4.2
109	109.8	15.839	35.907		0.01	26.483	0.252	1512.	4.2
111	112.0	15.668	35.864		0.01	26.489	0.255	1512.	4.5
113	114.1	15.409	35.811		0.01	26.507	0.259	1511.	4.9
115	115.8	15.276	35.785		0.01	26.517	0.261	1510.	5.1
117	118.0	15.182	35.781		0.01	26.535	0.265	1510.	5.2
119	120.1	15.029	35.776		0.01	26.565	0.268	1510.	5.1
121	122.2	14.993	35.796		0.01	26.588	0.271	1510.	5.0
123	124.0	14.946	35.795		0.00	26.598	0.274	1509.	4.8
125	126.0	14.919	35.792		0.00	26.602	0.276	1509.	4.5
127	128.0	14.973	35.821		0.01	26.612	0.279	1510.	4.1
129	129.9	15.002	35.851		0.00	26.629	0.282	1510.	3.9
131	132.2	15.028	35.868		0.00	26.636	0.285	1510.	3.8
133	133.9	15.047	35.887		0.00	26.646	0.288	1510.	4.1
135	135.8	15.039	35.891		0.00	26.651	0.291	1510.	4.0
137	137.8	15.023	35.896		0.00	26.659	0.293	1510.	3.9
139	140.0	14.980	35.899		0.00	26.671	0.297	1510.	3.9
141	141.9	14.823	35.885		0.00	26.694	0.299	1509.	3.7
143	144.0	14.764	35.866		0.00	26.693	0.302	1509.	3.8
145	145.9	14.736	35.867		0.00	26.700	0.305	1509.	3.7
147	148.0	14.703	35.865		0.00	26.706	0.308	1509.	3.7
149	150.2	14.665	35.864		0.00	26.713	0.311	1509.	3.6
151	152.0	14.602	35.863		0.00	26.726	0.313	1509.	3.8
153	153.9	14.538	35.854		0.00	26.732	0.316	1509.	4.1
155	156.0	14.448	35.853		0.00	26.751	0.318	1508.	4.4
157	157.9	14.388	35.837		0.00	26.752	0.321	1508.	4.6
159	159.9	14.305	35.827		0.00	26.762	0.324	1508.	4.6
161	162.3	14.139	35.812		0.00	26.786	0.327	1508.	4.5
163	163.9	13.978	35.797		0.00	26.809	0.329	1507.	4.3
165	166.0	13.906	35.785		0.00	26.814	0.331	1507.	4.1
167	167.9	13.832	35.774		0.00	26.821	0.334	1507.	3.7
169	170.1	13.781	35.767		0.00	26.827	0.337	1506.	3.2
171	172.0	13.769	35.766		0.00	26.829	0.339	1506.	2.9
173	174.1	13.731	35.760		0.00	26.832	0.342	1506.	2.9
175	176.0	13.675	35.754		0.00	26.839	0.344	1506.	2.9
177	178.1	13.637	35.750		0.00	26.844	0.347	1506.	3.0
178	179.9	13.571	35.747		0.00	26.855	0.349	1506.	3.1
180	181.8	13.521	35.735		0.00	26.856	0.351	1506.	3.1
183	184.1	13.464	35.723		0.00	26.859	0.354	1506.	3.2
184	185.9	13.398	35.716		0.00	26.867	0.356	1505.	3.2
186	187.8	13.335	35.709		0.00	26.875	0.359	1505.	3.2
189	190.2	13.236	35.694		0.00	26.883	0.362	1505.	3.4
190	191.8	13.164	35.687		0.00	26.893	0.363	1505.	3.7
193	194.1	13.129	35.679		0.00	26.893	0.366	1505.	4.0
194	195.8	13.086	35.674		0.00	26.899	0.368	1505.	4.3
196	198.1	12.925	35.656		0.00	26.917	0.371	1504.	4.7
198	199.8	12.691	35.617		0.00	26.933	0.373	1503.	4.9

SHIP	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH
OC	159	33	19 NOV 1984	1242	39°48.5'N	69°58.6'W	1165

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	12.456	35.582		0.00	26.953	0.376	1502.	5.1
202	203.7	12.285	35.557		0.00	26.967	0.377	1502.	4.9
205	206.2	12.112	35.537		0.00	26.985	0.380	1501.	4.6
206	207.9	11.934	35.515		0.00	27.003	0.382	1501.	4.2
208	209.9	11.854	35.499		0.00	27.006	0.384	1500.	3.7
210	212.1	11.786	35.490		0.00	27.011	0.387	1500.	3.3
212	213.9	11.744	35.485		0.00	27.016	0.389	1500.	2.9
214	215.9	11.726	35.483		0.00	27.017	0.391	1500.	2.7
216	218.2	11.699	35.481		0.00	27.021	0.393	1500.	2.6
218	219.8	11.616	35.470		0.00	27.028	0.395	1500.	2.4
220	222.3	11.542	35.460		0.00	27.034	0.398	1499.	2.2
222	223.9	11.503	35.453		0.00	27.036	0.399	1499.	2.1
224	226.1	11.499	35.452		0.00	27.036	0.402	1499.	2.0
226	228.1	11.492	35.451		0.00	27.036	0.404	1499.	1.8
228	230.0	11.488	35.451		0.00	27.037	0.406	1499.	1.8
230	231.9	11.467	35.451		0.00	27.041	0.408	1499.	2.0
232	234.0	11.418	35.443		0.00	27.044	0.410	1499.	2.2
234	236.0	11.376	35.436		0.00	27.047	0.412	1499.	2.3
236	238.2	11.344	35.432		0.00	27.049	0.415	1499.	2.5
238	239.9	11.287	35.428		0.00	27.057	0.417	1499.	2.7
240	242.1	11.259	35.420		0.00	27.056	0.419	1499.	3.0
242	244.1	11.231	35.418		0.00	27.059	0.421	1499.	3.5
244	246.1	11.145	35.412		0.00	27.070	0.423	1498.	3.8
246	247.8	10.982	35.383		0.00	27.078	0.425	1498.	3.8
248	250.0	10.827	35.364		0.00	27.091	0.427	1497.	3.9
250	251.9	10.698	35.358		0.00	27.109	0.429	1497.	3.7
252	254.0	10.637	35.349		0.00	27.114	0.431	1497.	3.5
254	256.2	10.574	35.339		0.00	27.117	0.433	1496.	3.4
256	257.9	10.546	35.336		0.00	27.120	0.435	1496.	3.1
258	260.1	10.514	35.334		0.00	27.124	0.437	1496.	2.9
260	261.9	10.446	35.328		0.00	27.131	0.439	1496.	2.9
262	263.9	10.361	35.325		0.00	27.143	0.441	1496.	2.8
264	266.1	10.286	35.307		0.00	27.143	0.443	1496.	2.6
266	267.9	10.243	35.300		0.00	27.145	0.445	1495.	2.3
268	270.0	10.218	35.300		0.00	27.149	0.447	1495.	2.4
270	272.0	10.217	35.300		0.00	27.149	0.449	1495.	2.4
272	274.0	10.208	35.298		0.00	27.149	0.451	1495.	2.7
274	275.9	10.187	35.298		0.00	27.153	0.453	1495.	2.9
276	278.0	10.097	35.303		0.00	27.173	0.454	1495.	3.0
278	280.2	9.996	35.276		0.00	27.169	0.457	1495.	3.1
280	282.0	9.919	35.272		0.00	27.179	0.458	1495.	2.9
282	284.2	9.871	35.266		0.00	27.183	0.460	1494.	2.6
283	285.9	9.824	35.262		0.00	27.187	0.462	1494.	2.3
286	288.1	9.789	35.254		0.00	27.187	0.464	1494.	2.4
288	290.0	9.778	35.252		0.00	27.187	0.466	1494.	2.2
290	292.0	9.751	35.251		0.00	27.191	0.468	1494.	2.3
292	294.0	9.715	35.252		0.00	27.198	0.469	1494.	2.4
294	296.1	9.667	35.244		0.00	27.200	0.471	1494.	2.5
295	298.0	9.622	35.236		0.00	27.201	0.473	1494.	2.8
297	299.9	9.559	35.232		0.00	27.208	0.475	1493.	2.8

SHIP	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH
OC	159	33	19 NOV 1984	1242	39°48.5'N	69°58.6'W	1165

DEPTH m	PRESS dbar	TEMP °C	SALIN psu	OXY ml/l	ATN m^{-1}	SIGT gm/cm^3	DYHT A $10m^2/s^2$	S SPD m/s	N cph
300	302.0	9.503	35.224		0.00	27.211	0.477	1493.	3.0
301	304.0	9.444	35.215		0.00	27.214	0.479	1493.	3.2
303	306.0	9.367	35.215		0.00	27.227	0.480	1493.	3.2
306	308.1	9.289	35.197		0.00	27.225	0.482	1493.	3.2
307	309.9	9.188	35.196		0.00	27.242	0.484	1492.	3.1
309	312.0	9.122	35.190		0.00	27.248	0.486	1492.	2.8
311	314.0	9.096	35.182		0.00	27.246	0.488	1492.	2.5
313	315.9	9.065	35.182		0.00	27.251	0.489	1492.	2.4
315	318.1	9.054	35.181		0.00	27.252	0.491	1492.	1.9
317	320.0	9.048	35.181		0.00	27.253	0.493	1492.	2.0
319	322.0	9.029	35.181		0.00	27.256	0.494	1492.	2.3
321	324.0	9.006	35.182		0.00	27.260	0.496	1492.	2.3
323	326.2	8.983	35.177		0.00	27.260	0.498	1492.	2.7
325	327.8	8.938	35.178		0.00	27.268	0.500	1492.	2.9
327	330.0	8.884	35.173		0.01	27.273	0.501	1491.	3.0
329	332.0	8.845	35.167		0.00	27.274	0.503	1491.	3.0
331	334.0	8.755	35.168		0.00	27.289	0.505	1491.	3.2
333	336.0	8.701	35.159		0.00	27.291	0.507	1491.	3.1
335	338.1	8.642	35.154		0.01	27.297	0.508	1491.	3.0
337	339.8	8.581	35.145		0.01	27.298	0.510	1490.	3.1
339	342.0	8.527	35.147		0.01	27.309	0.511	1490.	2.9
341	344.1	8.508	35.146		0.01	27.311	0.513	1490.	2.9
343	346.0	8.493	35.145		0.01	27.313	0.515	1490.	2.7
345	347.9	8.441	35.152		0.01	27.326	0.516	1490.	2.7
347	350.0	8.397	35.145		0.01	27.327	0.518	1490.	2.4
349	352.1	8.372	35.138		0.01	27.326	0.520	1490.	2.3
351	354.0	8.341	35.138		0.01	27.331	0.521	1490.	2.3
353	355.9	8.318	35.138		0.01	27.334	0.523	1490.	2.3
355	358.0	8.298	35.136		0.01	27.335	0.524	1490.	2.7
357	359.9	8.282	35.131		0.01	27.334	0.526	1490.	3.0
359	361.9	8.234	35.136		0.01	27.345	0.527	1489.	3.0
361	364.2	8.141	35.126		0.01	27.352	0.529	1489.	3.1
363	365.9	8.055	35.127		0.01	27.366	0.531	1489.	3.3
365	368.1	8.039	35.123		0.01	27.365	0.532	1489.	3.3
367	370.0	8.029	35.123		0.01	27.366	0.534	1489.	3.2
369	372.0	7.988	35.131		0.01	27.379	0.535	1489.	3.0
371	374.1	7.894	35.123		0.01	27.387	0.537	1488.	2.8
373	375.9	7.833	35.111		0.01	27.386	0.538	1488.	2.8
375	378.0	7.772	35.108		0.01	27.393	0.540	1488.	2.5
377	380.0	7.745	35.107		0.01	27.396	0.541	1488.	2.1
379	382.1	7.732	35.103		0.01	27.395	0.543	1488.	1.9
381	383.9	7.717	35.106		0.01	27.400	0.544	1488.	1.8
383	386.0	7.706	35.104		0.01	27.400	0.546	1488.	1.6
385	388.0	7.695	35.102		0.01	27.400	0.547	1488.	1.6
387	389.9	7.666	35.102		0.01	27.404	0.549	1488.	1.6
389	392.0	7.654	35.100		0.01	27.404	0.550	1488.	1.5
391	394.1	7.639	35.098		0.01	27.405	0.552	1488.	1.6
392	395.9	7.626	35.099		0.01	27.407	0.553	1488.	1.5
395	398.0	7.616	35.098		0.01	27.408	0.554	1488.	1.6
397	400.0	7.606	35.096		0.01	27.408	0.556	1488.	1.9

SHIP	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH
OC	159	33	19 NOV 1984	1242	39°48.5'N	69°58.6'W	1165

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
398	402.0	7.589	35.097		0.01	27.411	0.557	1488.	2.3
401	404.1	7.579	35.094		0.01	27.410	0.559	1488.	2.5
402	406.0	7.525	35.095		0.01	27.419	0.560	1487.	2.6
404	408.0	7.470	35.088		0.01	27.422	0.562	1487.	3.0
406	409.9	7.410	35.094		0.01	27.435	0.563	1487.	3.1
408	412.0	7.386	35.086		0.01	27.432	0.565	1487.	3.1
411	414.1	7.348	35.085		0.01	27.437	0.566	1487.	2.9
412	415.9	7.238	35.087		0.01	27.454	0.567	1487.	2.8
414	418.0	7.214	35.079		0.01	27.451	0.569	1486.	2.6
416	419.9	7.194	35.079		0.01	27.454	0.570	1486.	2.5
418	422.1	7.165	35.075		0.01	27.455	0.572	1486.	2.2
420	423.9	7.128	35.075		0.01	27.460	0.573	1486.	1.8
422	426.0	7.103	35.074		0.01	27.463	0.574	1486.	1.9
424	428.1	7.093	35.075		0.01	27.465	0.576	1486.	1.8
426	430.0	7.086	35.072		0.01	27.464	0.577	1486.	1.8
428	432.0	7.073	35.072		0.01	27.466	0.578	1486.	1.8
430	434.1	7.062	35.071		0.01	27.467	0.580	1486.	1.7
432	435.9	7.041	35.071		0.01	27.470	0.581	1486.	1.8
434	438.0	7.007	35.070		0.01	27.473	0.582	1486.	2.0
436	440.0	6.979	35.069		0.01	27.476	0.584	1486.	2.0
438	442.1	6.972	35.065		0.01	27.474	0.585	1486.	2.1
440	443.9	6.949	35.068		0.01	27.480	0.586	1486.	2.3
442	446.0	6.909	35.063		0.01	27.482	0.588	1486.	2.4
444	448.0	6.888	35.063		0.01	27.485	0.589	1486.	2.5
446	450.1	6.856	35.063		0.01	27.489	0.590	1486.	2.5
448	451.9	6.800	35.062		0.01	27.496	0.591	1485.	2.4
450	454.3	6.731	35.053		0.00	27.498	0.593	1485.	2.3
452	455.8	6.693	35.052		0.00	27.502	0.594	1485.	2.1
454	458.1	6.666	35.046		0.00	27.501	0.595	1485.	2.0
456	460.1	6.656	35.046		0.00	27.503	0.597	1485.	1.8
458	462.0	6.638	35.045		0.00	27.505	0.598	1485.	1.7
460	464.1	6.623	35.043		0.00	27.505	0.599	1485.	1.5
462	465.9	6.590	35.046		0.00	27.511	0.601	1485.	1.8
464	468.1	6.580	35.041		0.00	27.509	0.602	1485.	1.7
466	470.0	6.573	35.041		0.00	27.510	0.603	1485.	1.7
468	472.1	6.570	35.040		0.00	27.509	0.604	1485.	1.6
470	474.0	6.529	35.045		0.00	27.519	0.606	1485.	1.5
472	476.1	6.512	35.036		0.00	27.514	0.607	1485.	1.7
474	478.0	6.495	35.036		0.00	27.517	0.608	1485.	1.6
476	480.1	6.483	35.034		0.00	27.516	0.609	1485.	1.5
478	481.9	6.467	35.035		0.00	27.520	0.611	1485.	1.3
480	484.0	6.454	35.036		0.00	27.522	0.612	1485.	1.5
482	486.1	6.447	35.034		0.00	27.521	0.613	1485.	1.7
484	487.9	6.434	35.033		0.00	27.522	0.614	1485.	1.9
486	490.1	6.429	35.033		0.00	27.523	0.616	1485.	1.9
488	492.0	6.409	35.034		0.00	27.526	0.617	1484.	2.1
490	493.9	6.376	35.035		0.00	27.532	0.618	1484.	2.4
492	496.0	6.343	35.034		0.00	27.535	0.619	1484.	2.5
494	498.1	6.332	35.030		0.00	27.534	0.621	1484.	2.7
495	499.9	6.294	35.033		0.00	27.541	0.622	1484.	2.7

SHIP	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH
OC	159	33	19 NOV 1984	1242	39°48.5'N	69°58.6'W	1165

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
515	520.1	6.008	35.021		0.00	27.568	0.634	1483.	1.8
535	540.1	5.804	35.014		0.00	27.589	0.645	1483.	2.1
555	560.0	5.630	35.022		0.00	27.617	0.656	1482.	0.9
575	580.0	5.579	35.012		0.00	27.616	0.667	1483.	2.0
595	600.1	5.360	35.005		0.00	27.637	0.678	1482.	1.4
614	620.0	5.259	35.005		0.00	27.649	0.688	1482.	1.7
634	640.0	5.184	34.998		0.00	27.652	0.698	1482.	0.8
654	660.1	5.135	34.997		0.00	27.657	0.708	1482.	0.9
674	680.1	5.047	34.993		0.00	27.665	0.718	1482.	1.5
693	699.9	4.959	34.991		0.00	27.673	0.728	1482.	1.1
713	719.7	4.856	34.989		0.00	27.683	0.738	1482.	0.9
733	740.0	4.815	34.986		0.00	27.686	0.748	1482.	0.6
753	760.0	4.728	34.979		0.01	27.690	0.757	1482.	0.9
772	779.9	4.675	34.981		0.00	27.698	0.767	1482.	1.5
792	800.0	4.604	34.977		0.00	27.703	0.776	1482.	0.7
812	819.9	4.578	34.976		0.00	27.704	0.786	1482.	0.6
832	840.0	4.514	34.973		0.00	27.710	0.795	1483.	1.3
852	860.1	4.462	34.969		0.00	27.712	0.804	1483.	0.6
871	880.0	4.437	34.967		0.01	27.713	0.814	1483.	0.4
891	900.0	4.350	34.963		0.01	27.720	0.823	1483.	1.0
911	919.7	4.347	34.963		0.01	27.720	0.832	1483.	0.3
931	940.0	4.344	34.963		0.01	27.720	0.841	1483.	0.5
951	960.1	4.337	34.963		0.01	27.721	0.851	1484.	0.1
970	980.0	4.330	34.963		0.01	27.721	0.860	1484.	0.5
990	999.9	4.289	34.962		0.01	27.725	0.869	1484.	0.7
1010	1019.9	4.283	34.961		0.01	27.725	0.878	1485.	0.1
1030	1040.0	4.274	34.961		0.01	27.726	0.888	1485.	0.6
1049	1060.1	4.255	34.960		0.01	27.728	0.897	1485.	0.7
1069	1080.2	4.231	34.960		0.01	27.730	0.906	1485.	0.8
1089	1099.8	4.200	34.958		0.01	27.732	0.915	1486.	-0.3
1109	1120.2	4.202	34.959		0.01	27.732	0.925	1486.	0.4
1128	1140.0	4.198	34.959		0.01	27.733	0.934	1486.	0.4

SHIP	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH
OC	159	35	19 NOV 1984	1355	39°51.0'N	70°01.8'W	1085

DEPTH m	PRESS dbar	TEMP °C	SALIN psu	OXY ml/l	ATN m^{-1}	SIGT gm/cm^3	DYHT A $10m^2/s^2$	S SPD m/s	N cph
2	2.0	15.507	34.193		0.08	25.239	0.000	1507.	2.2
4	4.2	15.500	34.191		0.08	25.239	0.006	1507.	2.2
6	5.9	15.496	34.189		0.08	25.238	0.011	1507.	2.2
8	8.0	15.516	34.203		0.07	25.244	0.016	1507.	2.2
10	10.0	15.600	34.224		0.08	25.242	0.022	1508.	2.2
12	12.1	15.695	34.261		0.07	25.249	0.027	1508.	2.6
14	14.0	15.779	34.286		0.07	25.249	0.033	1509.	3.2
16	16.0	15.874	34.321		0.07	25.255	0.038	1509.	3.8
18	18.0	16.010	34.373		0.06	25.264	0.043	1509.	3.9
20	19.9	16.189	34.437		0.06	25.273	0.049	1510.	3.7
22	22.1	16.452	34.556		0.06	25.303	0.054	1511.	3.6
24	23.9	16.867	34.700		0.05	25.316	0.059	1512.	3.1
26	25.9	17.157	34.773		0.05	25.304	0.065	1513.	2.4
28	28.0	17.240	34.795		0.05	25.301	0.070	1514.	1.6
30	30.0	17.200	34.789		0.05	25.305	0.075	1514.	-0.8
32	32.0	17.195	34.779		0.05	25.299	0.081	1514.	-0.8
34	34.0	17.131	34.766		0.05	25.304	0.086	1514.	1.0
36	36.1	17.121	34.764		0.05	25.305	0.092	1514.	1.0
38	38.0	17.110	34.760		0.05	25.305	0.097	1514.	0.9
40	39.9	17.100	34.759		0.05	25.306	0.102	1514.	-1.0
42	42.0	17.104	34.759		0.05	25.306	0.108	1514.	-0.6
44	44.2	17.106	34.760		0.05	25.306	0.113	1514.	-1.0
45	45.8	17.105	34.759		0.05	25.305	0.118	1514.	2.1
48	48.0	17.000	34.702		0.06	25.287	0.124	1513.	3.1
50	50.0	16.675	34.637		0.06	25.313	0.129	1512.	3.4
52	52.0	16.579	34.587		0.07	25.297	0.134	1512.	3.9
54	53.9	16.384	34.599		0.06	25.352	0.140	1511.	4.6
56	56.0	16.824	34.744		0.04	25.361	0.145	1513.	5.5
58	58.0	17.051	34.799		0.04	25.348	0.150	1514.	6.2
60	60.0	17.128	34.854		0.04	25.372	0.155	1514.	6.9
61	61.9	16.917	34.833		0.04	25.406	0.160	1513.	8.2
64	64.0	16.652	34.832		0.04	25.469	0.166	1513.	9.5
65	66.0	16.601	34.875		0.04	25.513	0.171	1513.	10.1
67	68.0	16.450	34.883		0.03	25.555	0.176	1512.	10.2
70	70.1	16.436	35.119		0.02	25.740	0.181	1512.	10.6
71	71.9	16.652	35.275		0.02	25.808	0.185	1513.	10.9
73	74.0	16.568	35.227		0.02	25.791	0.189	1513.	11.0
76	76.1	15.504	34.979		0.02	25.845	0.194	1509.	11.1
77	77.9	14.302	34.814		0.02	25.981	0.198	1506.	10.7
79	80.0	13.864	34.831		0.01	26.086	0.202	1504.	10.7
81	82.1	13.665	34.845		0.02	26.138	0.206	1504.	10.3
83	83.9	13.971	35.049		0.02	26.232	0.209	1505.	9.2
85	86.1	14.863	35.349		0.01	26.272	0.213	1508.	7.6
87	88.0	15.760	35.644		0.01	26.299	0.216	1511.	6.2
89	89.9	15.995	35.684		0.01	26.276	0.220	1512.	5.1
91	92.1	16.114	35.749		0.00	26.299	0.223	1513.	4.7
93	94.0	16.350	35.819		0.00	26.298	0.227	1513.	5.0
95	96.1	16.370	35.838		0.00	26.307	0.230	1513.	5.4
97	97.8	16.138	35.791		0.00	26.325	0.234	1513.	5.8
99	100.0	15.851	35.792		0.00	26.392	0.237	1512.	5.8

SHIP	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH
OC	159	35	19 NOV 1984	1355	39°51.0'N	70°01.8'W	1085

DEPTH m	PRESS dbar	TEMP °C	SALIN psu	OXY ml/l	ATN m^{-1}	SIGT gm/cm^3	DYHT A $10m^2/s^2$	S SPD m/s	N cph
101	102.2	15.725	35.784		0.00	26.415	0.241	1512.	5.8
103	104.0	15.724	35.791		0.00	26.420	0.244	1512.	5.7
105	106.0	15.623	35.769		0.00	26.426	0.247	1511.	5.1
107	108.1	15.432	35.731		0.00	26.440	0.250	1511.	4.5
109	109.9	15.292	35.715		0.00	26.459	0.253	1510.	4.5
111	111.9	15.175	35.705		0.00	26.477	0.256	1510.	4.6
113	114.1	15.105	35.685		0.00	26.478	0.260	1510.	4.7
115	115.9	14.967	35.665		0.00	26.493	0.263	1509.	4.6
117	118.0	14.901	35.671		0.00	26.512	0.266	1509.	4.3
119	120.1	14.879	35.679		0.00	26.523	0.269	1509.	4.1
121	121.9	14.861	35.697		0.00	26.541	0.272	1509.	3.9
123	124.1	14.870	35.705		0.00	26.545	0.275	1509.	3.6
125	125.9	14.874	35.709		0.00	26.548	0.278	1509.	3.3
127	128.0	14.882	35.716		0.00	26.551	0.281	1509.	3.0
129	130.1	14.883	35.721		0.00	26.554	0.284	1509.	2.9
131	131.9	14.885	35.736		0.00	26.566	0.287	1509.	3.1
133	134.0	14.883	35.744		0.00	26.572	0.290	1509.	3.3
135	136.1	14.879	35.745		0.00	26.574	0.293	1509.	3.3
137	137.9	14.873	35.753		0.00	26.581	0.296	1509.	3.3
139	140.0	14.871	35.773		0.00	26.597	0.299	1509.	3.1
141	142.1	14.880	35.781		0.00	26.602	0.302	1510.	3.2
143	143.9	14.902	35.786		0.00	26.600	0.305	1510.	3.3
145	146.0	14.918	35.799		0.01	26.607	0.308	1510.	3.3
147	148.1	14.912	35.805		0.01	26.613	0.311	1510.	3.3
149	149.9	14.859	35.808		0.01	26.627	0.314	1510.	3.5
151	152.0	14.824	35.808		0.01	26.635	0.317	1510.	4.0
153	154.1	14.791	35.805		0.02	26.639	0.320	1509.	4.2
155	155.9	14.723	35.793		0.02	26.646	0.322	1509.	4.2
157	158.0	14.612	35.783		0.02	26.662	0.325	1509.	4.1
159	160.0	14.475	35.776		0.02	26.686	0.328	1509.	4.0
161	162.0	14.400	35.767		0.02	26.695	0.331	1508.	3.8
163	164.0	14.380	35.761		0.02	26.695	0.334	1508.	3.5
165	166.0	14.359	35.765		0.02	26.703	0.336	1508.	3.3
167	168.1	14.316	35.757		0.02	26.706	0.339	1508.	3.2
169	170.0	14.275	35.747		0.02	26.707	0.342	1508.	3.4
171	171.9	14.222	35.740		0.02	26.713	0.345	1508.	3.6
173	174.0	14.117	35.736		0.02	26.732	0.347	1508.	3.7
175	176.0	14.052	35.733		0.02	26.744	0.350	1507.	3.7
177	178.0	14.020	35.735		0.02	26.752	0.353	1507.	3.6
179	180.1	13.994	35.733		0.02	26.756	0.356	1507.	3.4
180	181.9	13.953	35.730		0.02	26.762	0.358	1507.	3.0
183	184.0	13.920	35.721		0.02	26.762	0.361	1507.	2.6
184	186.0	13.872	35.724		0.02	26.775	0.363	1507.	2.3
187	188.1	13.869	35.723		0.02	26.775	0.366	1507.	2.6
188	189.8	13.864	35.726		0.02	26.778	0.368	1507.	2.9
191	192.1	13.864	35.722		0.02	26.775	0.371	1507.	3.6
192	193.9	13.816	35.706		0.02	26.773	0.374	1507.	4.1
194	196.0	13.665	35.704		0.02	26.803	0.376	1506.	4.5
196	198.0	13.593	35.696		0.01	26.811	0.379	1506.	4.7
199	200.2	13.370	35.673		0.01	26.840	0.382	1506.	4.7

SHIP	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH
OC	159	35	19 NOV 1984	1355	39°51.0'N	70°01.8'W	1085

DEPTH m	PRESS dbar	TEMP °C	SALIN psu	OXY ml/l	ATN m^{-1}	SIGT gm/cm^3	DYHT A $10m^2/s^2$	S SPD m/s	N cph
200	201.8	13.299	35.679		0.01	26.859	0.384	1505.	4.3
202	204.0	13.279	35.674		0.01	26.859	0.387	1505.	3.9
204	206.1	13.229	35.671		0.01	26.867	0.389	1505.	3.6
206	207.9	13.226	35.670		0.01	26.867	0.391	1505.	3.1
208	210.0	13.160	35.652		0.01	26.866	0.394	1505.	3.3
210	212.1	13.012	35.635		0.02	26.883	0.397	1504.	3.5
212	213.8	12.934	35.625		0.02	26.891	0.399	1504.	4.3
214	216.0	12.836	35.600		0.02	26.892	0.401	1504.	5.3
216	218.1	12.656	35.588		0.02	26.918	0.404	1503.	6.1
218	220.0	12.536	35.553		0.02	26.915	0.406	1503.	6.5
220	222.2	11.841	35.449		0.02	26.969	0.409	1500.	6.8
222	223.8	11.484	35.436		0.02	27.026	0.410	1499.	6.8
224	226.0	11.276	35.415		0.02	27.049	0.413	1499.	6.5
226	228.1	11.084	35.403		0.02	27.075	0.415	1498.	6.1
228	229.9	10.999	35.391		0.02	27.081	0.417	1498.	5.2
230	232.0	10.880	35.378		0.02	27.092	0.419	1497.	4.6
232	234.1	10.759	35.362		0.02	27.102	0.421	1497.	4.7
234	235.9	10.673	35.351		0.02	27.108	0.423	1497.	4.8
236	238.0	10.445	35.313		0.02	27.120	0.425	1496.	4.9
238	240.0	10.169	35.276		0.02	27.138	0.427	1495.	5.0
240	242.0	9.993	35.280		0.02	27.173	0.429	1494.	4.8
242	244.0	9.896	35.271		0.02	27.182	0.431	1494.	4.6
244	246.1	9.787	35.258		0.02	27.190	0.433	1493.	4.3
246	248.0	9.736	35.257		0.02	27.198	0.434	1493.	3.8
248	249.9	9.684	35.248		0.02	27.200	0.436	1493.	3.3
250	252.1	9.617	35.240		0.02	27.205	0.438	1493.	3.1
252	253.9	9.520	35.233		0.02	27.216	0.440	1493.	3.0
254	256.0	9.473	35.230		0.02	27.221	0.441	1492.	3.1
256	258.2	9.423	35.226		0.02	27.227	0.443	1492.	3.2
258	259.8	9.398	35.218		0.02	27.224	0.445	1492.	3.2
260	262.0	9.278	35.207		0.02	27.236	0.447	1492.	3.1
262	264.1	9.183	35.200		0.01	27.245	0.449	1491.	2.8
264	265.9	9.126	35.196		0.01	27.251	0.450	1491.	2.8
266	268.1	9.099	35.196		0.01	27.256	0.452	1491.	2.8
268	270.0	9.094	35.195		0.01	27.256	0.454	1491.	2.7
270	272.0	9.072	35.178		0.01	27.246	0.455	1491.	2.5
272	274.0	8.932	35.173		0.01	27.265	0.457	1491.	2.5
274	276.0	8.892	35.174		0.01	27.272	0.459	1491.	2.5
276	278.0	8.880	35.176		0.01	27.276	0.461	1491.	2.5
278	280.1	8.871	35.171		0.01	27.273	0.462	1491.	2.6
280	281.9	8.854	35.174		0.01	27.278	0.464	1491.	2.2
282	284.0	8.819	35.166		0.02	27.277	0.466	1490.	2.1
284	286.0	8.767	35.162		0.02	27.283	0.467	1490.	2.3
286	288.0	8.724	35.164		0.01	27.291	0.469	1490.	2.4
288	290.1	8.718	35.163		0.01	27.291	0.471	1490.	2.4
289	291.8	8.710	35.160		0.01	27.290	0.472	1490.	2.5
292	294.0	8.623	35.158		0.01	27.302	0.474	1490.	2.4
294	296.0	8.600	35.146		0.01	27.297	0.476	1490.	2.3
295	298.0	8.559	35.151		0.01	27.307	0.477	1490.	2.4
298	300.0	8.547	35.151		0.01	27.309	0.479	1490.	2.3

SHIP	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH
OC	159	35	19 NOV 1984	1355	39°51.0'N	70°01.8'W	1085

DEPTH m	PRESS dbar	TEMP °C	SALIN psu	OXY ml/l	ATN m^{-1}	SIGT gm/cm^3	DYHT A $10m^2/s^2$	S SPD m/s	N cph
300	302.1	8.513	35.145		0.01	27.309	0.481	1490.	2.2
301	303.9	8.480	35.145		0.01	27.315	0.482	1489.	2.3
303	306.0	8.460	35.143		0.01	27.316	0.484	1489.	2.2
306	308.2	8.427	35.141		0.01	27.319	0.485	1489.	2.3
307	309.8	8.403	35.138		0.01	27.321	0.487	1489.	2.4
309	312.0	8.362	35.138		0.01	27.327	0.488	1489.	2.5
312	314.2	8.327	35.133		0.01	27.329	0.490	1489.	2.5
313	315.8	8.279	35.127		0.01	27.332	0.492	1489.	2.5
315	318.0	8.241	35.131		0.01	27.340	0.493	1489.	2.4
317	320.2	8.221	35.129		0.01	27.342	0.495	1489.	2.4
319	321.9	8.207	35.128		0.01	27.343	0.496	1489.	2.5
321	324.0	8.179	35.125		0.01	27.345	0.498	1489.	2.4
323	326.0	8.142	35.122		0.01	27.349	0.499	1489.	2.4
325	328.0	8.081	35.120		0.01	27.356	0.501	1488.	2.3
327	330.1	8.052	35.119		0.01	27.360	0.503	1488.	2.3
329	331.9	8.040	35.119		0.01	27.361	0.504	1488.	2.4
331	334.0	8.021	35.118		0.01	27.364	0.506	1488.	2.4
333	335.9	8.011	35.116		0.01	27.364	0.507	1488.	2.5
335	338.0	7.940	35.108		0.01	27.368	0.509	1488.	2.7
337	340.1	7.883	35.110		0.01	27.378	0.510	1488.	2.8
339	341.9	7.857	35.104		0.01	27.377	0.512	1488.	2.8
341	344.0	7.795	35.105		0.01	27.387	0.513	1487.	2.8
343	346.0	7.752	35.104		0.01	27.393	0.515	1487.	2.5
345	348.1	7.733	35.104		0.01	27.396	0.516	1487.	2.1
347	349.9	7.724	35.104		0.01	27.397	0.518	1487.	1.8
349	352.0	7.722	35.104		0.01	27.398	0.519	1487.	1.3
351	354.0	7.726	35.104		0.01	27.397	0.521	1487.	0.9
353	356.0	7.725	35.104		0.01	27.397	0.522	1487.	0.8
355	358.0	7.722	35.104		0.01	27.397	0.523	1487.	1.2
357	360.2	7.715	35.104		0.01	27.398	0.525	1487.	1.5
359	361.8	7.710	35.102		0.02	27.398	0.526	1487.	1.7
361	364.0	7.677	35.099		0.02	27.400	0.528	1487.	1.8
363	366.2	7.627	35.099		0.01	27.407	0.529	1487.	1.8
365	367.8	7.621	35.099		0.02	27.408	0.531	1487.	1.7
367	370.0	7.620	35.099		0.02	27.409	0.532	1487.	1.5
369	372.1	7.618	35.098		0.02	27.408	0.534	1487.	1.5
371	373.9	7.609	35.098		0.02	27.409	0.535	1487.	1.5
373	376.0	7.606	35.098		0.02	27.410	0.537	1487.	1.6
375	378.1	7.584	35.093		0.02	27.409	0.538	1487.	1.7
377	380.0	7.536	35.094		0.02	27.417	0.540	1487.	1.8
379	382.0	7.523	35.094		0.02	27.419	0.541	1487.	1.8
381	383.9	7.518	35.094		0.02	27.419	0.542	1487.	1.7
383	386.0	7.504	35.093		0.02	27.420	0.544	1487.	1.6
385	388.1	7.493	35.093		0.02	27.422	0.545	1487.	1.3
387	390.0	7.491	35.092		0.02	27.422	0.547	1487.	1.3
389	392.0	7.479	35.091		0.02	27.423	0.548	1487.	1.4
391	394.0	7.464	35.091		0.02	27.425	0.550	1487.	1.5
393	396.1	7.459	35.090		0.02	27.425	0.551	1487.	1.8
395	398.0	7.427	35.086		0.02	27.426	0.552	1487.	2.0
397	400.1	7.407	35.087		0.02	27.430	0.554	1487.	2.3

SHIP	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH
OC	159	35	19 NOV 1984	1355	39°51.0'N	70°01.8'W	1085

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	7.367	35.082		0.02	27.431	0.555	1487.	2.6
400	403.9	7.323	35.082		0.02	27.438	0.557	1487.	2.8
403	406.0	7.272	35.077		0.02	27.441	0.558	1486.	2.9
405	408.1	7.202	35.074		0.02	27.449	0.559	1486.	3.0
406	410.0	7.156	35.071		0.02	27.453	0.561	1486.	3.0
408	412.0	7.103	35.068		0.02	27.459	0.562	1486.	2.9
410	414.0	7.047	35.067		0.02	27.465	0.563	1486.	2.8
412	415.9	7.017	35.068		0.02	27.470	0.565	1486.	2.6
414	418.0	7.000	35.067		0.02	27.472	0.566	1486.	2.5
416	420.0	6.972	35.063		0.02	27.473	0.567	1486.	2.3
418	422.1	6.930	35.066		0.01	27.480	0.569	1485.	2.0
420	424.0	6.920	35.065		0.01	27.481	0.570	1485.	1.9
422	425.9	6.910	35.065		0.01	27.483	0.571	1485.	2.0
424	428.1	6.905	35.065		0.01	27.483	0.573	1485.	2.0
426	430.1	6.888	35.061		0.01	27.483	0.574	1485.	2.1
428	432.0	6.840	35.059		0.01	27.488	0.575	1485.	2.5
430	434.0	6.796	35.056		0.01	27.492	0.577	1485.	2.8
432	436.0	6.749	35.054		0.01	27.496	0.578	1485.	3.1
434	438.0	6.679	35.049		0.01	27.502	0.579	1485.	3.3
436	440.0	6.594	35.048		0.02	27.512	0.581	1484.	3.2
438	442.0	6.525	35.043		0.02	27.518	0.582	1484.	3.0
440	444.0	6.470	35.044		0.02	27.526	0.583	1484.	2.7
442	445.9	6.461	35.045		0.02	27.528	0.584	1484.	2.3
444	448.0	6.454	35.045		0.02	27.529	0.585	1484.	1.8
446	450.0	6.457	35.044		0.02	27.528	0.587	1484.	1.3
448	452.0	6.449	35.044		0.02	27.529	0.588	1484.	1.0
450	453.9	6.444	35.044		0.02	27.529	0.589	1484.	1.2
452	456.0	6.441	35.044		0.02	27.530	0.590	1484.	1.4
454	458.0	6.430	35.041		0.02	27.529	0.592	1484.	1.8
456	460.0	6.402	35.040		0.02	27.532	0.593	1484.	2.0
458	462.1	6.362	35.040		0.02	27.537	0.594	1484.	2.3
460	463.9	6.344	35.036		0.02	27.536	0.595	1484.	2.5
462	466.0	6.294	35.037		0.02	27.544	0.597	1484.	2.6
464	468.0	6.244	35.030		0.02	27.545	0.598	1483.	2.8
466	470.0	6.196	35.033		0.02	27.554	0.599	1483.	3.0
468	472.1	6.166	35.030		0.01	27.555	0.600	1483.	3.1
470	474.0	6.091	35.024		0.01	27.560	0.601	1483.	3.0
472	476.0	6.004	35.024		0.00	27.572	0.602	1483.	3.0
474	478.1	5.962	35.025		0.00	27.577	0.604	1482.	2.9
476	480.0	5.929	35.021		0.00	27.578	0.605	1482.	2.8
478	482.1	5.904	35.021		0.00	27.582	0.606	1482.	2.7
480	484.0	5.846	35.018		0.00	27.587	0.607	1482.	2.4
482	486.0	5.822	35.019		0.01	27.591	0.608	1482.	2.3
484	488.0	5.794	35.017		0.01	27.592	0.609	1482.	2.3
486	490.1	5.763	35.018		0.01	27.597	0.610	1482.	2.2
488	491.9	5.754	35.017		0.01	27.597	0.611	1482.	2.1
490	493.9	5.737	35.015		0.01	27.598	0.612	1482.	1.9
492	496.0	5.683	35.016		0.01	27.606	0.613	1482.	1.8
494	498.1	5.682	35.016		0.01	27.606	0.615	1482.	1.5
495	499.9	5.679	35.015		0.01	27.606	0.616	1482.	1.3

SHIP	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH
OC	159	35	19 NOV 1984	1355	39°51.0'N	70°01.8'W	1085

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
515	519.8	5.667	35.015		0.01	27.607	0.626	1482.	0.6
535	540.0	5.648	35.014		0.01	27.609	0.637	1482.	1.2
555	560.0	5.474	35.008		0.01	27.625	0.648	1482.	1.5
575	580.1	5.409	35.010		0.01	27.635	0.659	1482.	1.7
595	600.1	5.196	35.009		0.00	27.660	0.669	1481.	1.3
614	620.1	5.176	34.999		0.01	27.654	0.679	1482.	0.5
634	640.2	5.127	34.997		0.01	27.658	0.689	1482.	0.5
654	660.2	5.127	34.997		0.01	27.658	0.699	1482.	0.0
674	680.0	5.041	34.994		0.01	27.666	0.709	1482.	1.7
694	700.0	4.826	34.986		0.01	27.685	0.719	1482.	1.9
713	720.1	4.763	34.983		0.01	27.689	0.728	1482.	1.1
733	740.0	4.723	34.981		0.01	27.692	0.738	1482.	0.7
753	760.0	4.693	34.979		0.01	27.694	0.747	1482.	0.7
772	779.9	4.679	34.978		0.01	27.695	0.757	1482.	0.5
792	799.9	4.647	34.978		0.01	27.698	0.766	1482.	0.5
812	819.9	4.619	34.976		0.01	27.700	0.776	1483.	0.6
832	840.0	4.605	34.976		0.01	27.702	0.785	1483.	0.7
852	860.0	4.588	34.977		0.01	27.704	0.795	1483.	0.6
871	880.1	4.562	34.976		0.01	27.706	0.804	1483.	0.2
891	900.0	4.553	34.975		0.01	27.707	0.814	1484.	0.9
911	920.1	4.472	34.972		0.01	27.713	0.823	1484.	1.0
931	940.0	4.432	34.970		0.01	27.716	0.833	1484.	1.0
950	960.0	4.397	34.969		0.01	27.719	0.842	1484.	0.9
970	979.9	4.304	34.965		0.01	27.726	0.851	1484.	1.3
990	1000.0	4.245	34.963		0.01	27.731	0.860	1484.	0.6
1010	1020.0	4.235	34.963		0.01	27.732	0.870	1484.	0.3
1029	1039.9	4.233	34.963		0.01	27.732	0.879	1485.	0.3

SHIP	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH
OC	159	37	19 NOV 1984	1510	39°48.9'N	70°05.6'W	1140

DEPTH m	PRESS dbsr	TEMP °C	SALIN psu	OXY ml/l	ATN m^{-1}	SIGT gm/cm^3	DYHT A $10m^2/s^2$	S SPD m/s	N cph
1	0.9	16.154	34.539		0.11	25.359	0.000	1510.	1.2
2	2.2	16.158	34.542		0.11	25.360	0.003	1510.	1.2
4	4.0	16.168	34.540		0.11	25.356	0.008	1510.	1.2
6	5.9	16.137	34.534		0.11	25.359	0.013	1510.	1.2
8	8.2	16.143	34.537		0.11	25.359	0.019	1510.	1.2
10	10.1	16.124	34.530		0.11	25.358	0.024	1510.	0.9
12	12.1	16.105	34.529		0.11	25.362	0.029	1510.	0.9
14	14.0	15.982	34.497		0.11	25.366	0.034	1509.	1.0
16	15.9	15.928	34.478		0.11	25.363	0.039	1509.	1.3
18	18.0	15.976	34.485		0.11	25.358	0.044	1509.	1.0
20	20.1	15.994	34.494		0.11	25.360	0.050	1510.	1.2
22	21.9	15.956	34.490		0.11	25.366	0.055	1509.	1.5
24	24.1	15.880	34.472		0.11	25.370	0.060	1509.	1.7
26	25.9	15.852	34.454		0.11	25.362	0.065	1509.	1.8
28	28.0	15.827	34.459		0.11	25.372	0.071	1509.	1.5
30	30.2	15.767	34.447		0.11	25.376	0.076	1509.	1.1
32	32.2	15.718	34.427		0.11	25.371	0.081	1509.	0.9
34	33.9	15.688	34.419		0.11	25.372	0.086	1509.	0.8
36	35.9	15.645	34.407		0.11	25.372	0.091	1509.	-0.2
38	37.9	15.616	34.393		0.11	25.369	0.096	1509.	0.1
40	40.0	15.621	34.399		0.11	25.372	0.102	1509.	0.8
42	42.1	15.603	34.392		0.11	25.371	0.107	1509.	1.0
44	44.0	15.564	34.386		0.11	25.375	0.112	1508.	1.3
46	46.1	15.538	34.376		0.11	25.373	0.118	1508.	1.9
48	47.9	15.528	34.375		0.11	25.374	0.122	1508.	2.0
50	50.0	15.514	34.374		0.11	25.377	0.128	1508.	2.4
51	51.9	15.478	34.367		0.11	25.379	0.133	1508.	2.8
54	54.1	15.354	34.348		0.10	25.392	0.139	1508.	3.8
56	56.0	15.309	34.332		0.09	25.389	0.143	1508.	4.8
58	58.1	15.431	34.380		0.08	25.399	0.149	1508.	5.6
60	60.1	15.842	34.523		0.07	25.417	0.154	1510.	7.4
62	62.0	16.193	34.685		0.07	25.462	0.159	1511.	8.7
63	63.9	16.485	34.832		0.07	25.507	0.164	1512.	9.4
66	66.0	16.548	34.892		0.06	25.539	0.169	1512.	10.0
67	67.9	15.447	34.799		0.05	25.719	0.173	1509.	10.8
70	70.1	14.433	34.584		0.04	25.774	0.178	1506.	11.6
71	72.0	14.271	34.533		0.04	25.770	0.183	1505.	12.2
73	73.9	15.220	34.917		0.03	25.860	0.187	1508.	12.2
75	75.9	16.157	35.411		0.02	26.029	0.191	1512.	11.6
77	77.9	16.881	35.819		0.01	26.173	0.195	1515.	11.5
79	79.9	16.994	35.963		0.01	26.256	0.198	1515.	11.1
81	81.8	16.911	35.953		0.01	26.268	0.202	1515.	9.7
83	83.9	16.759	35.941		0.01	26.295	0.205	1515.	8.1
85	85.9	16.190	35.876		0.01	26.379	0.209	1513.	6.7
87	87.9	15.871	35.786		0.01	26.383	0.212	1512.	5.8
89	90.1	15.666	35.733		0.01	26.389	0.216	1511.	5.3
91	91.9	15.515	35.698		0.01	26.396	0.219	1511.	4.6
93	93.9	15.353	35.662		0.01	26.405	0.222	1510.	3.9
95	96.0	15.249	35.641		0.01	26.412	0.225	1510.	4.4
97	98.0	15.121	35.624		0.01	26.427	0.229	1509.	5.0

SHIP	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH
OC	159	37	19 NOV 1984	1510	39°48.9'N	70°05.6'W	1140

DEPTH m	PRESS dbsr	TEMP °C	SALIN psu	OXY ml/l	ATN m^{-1}	SIGT gm/cm^3	DYHT A $10m^2/s^2$	S SPD m/s	N cph
99	99.9	15.019	35.601		0.01	26.432	0.232	1509.	5.4
101	102.0	14.911	35.602		0.01	26.457	0.235	1509.	5.6
103	103.9	15.115	35.699		0.01	26.486	0.238	1510.	5.6
105	106.1	15.198	35.771		0.01	26.524	0.242	1510.	5.3
107	108.0	15.214	35.796		0.02	26.539	0.244	1510.	5.0
109	109.9	15.194	35.796		0.02	26.544	0.247	1510.	4.5
111	112.1	15.169	35.795		0.02	26.549	0.251	1510.	4.0
113	114.0	15.115	35.786		0.02	26.554	0.254	1510.	3.8
115	116.1	15.072	35.784		0.02	26.562	0.257	1510.	4.0
117	118.0	14.997	35.779		0.03	26.575	0.260	1510.	4.2
119	119.9	14.952	35.775		0.03	26.581	0.262	1509.	4.3
121	121.8	14.850	35.782		0.03	26.609	0.265	1509.	4.2
123	124.0	14.822	35.783		0.03	26.616	0.268	1509.	3.9
125	125.9	14.801	35.788		0.02	26.625	0.271	1509.	3.5
127	128.1	14.787	35.790		0.02	26.629	0.274	1509.	3.3
129	129.8	14.771	35.789		0.02	26.632	0.277	1509.	3.1
131	132.0	14.765	35.790		0.02	26.634	0.280	1509.	3.3
133	133.9	14.754	35.791		0.02	26.637	0.283	1509.	3.6
135	136.0	14.692	35.794		0.03	26.653	0.286	1509.	3.9
137	137.8	14.612	35.786		0.02	26.664	0.288	1509.	4.3
139	140.0	14.556	35.785		0.02	26.675	0.291	1508.	4.6
141	142.0	14.484	35.784		0.02	26.690	0.294	1508.	4.7
143	143.9	14.429	35.782		0.02	26.701	0.297	1508.	4.5
145	145.7	14.321	35.781		0.02	26.723	0.299	1508.	4.3
147	148.0	14.198	35.768		0.02	26.739	0.302	1507.	4.0
149	149.8	14.135	35.752		0.03	26.741	0.305	1507.	3.8
151	152.2	14.105	35.752		0.03	26.747	0.308	1507.	4.0
153	154.0	14.072	35.745		0.03	26.748	0.310	1507.	4.4
155	156.0	14.049	35.746		0.03	26.754	0.313	1507.	4.8
157	157.9	13.948	35.735		0.03	26.767	0.315	1507.	5.1
159	160.1	13.724	35.724		0.02	26.806	0.318	1506.	5.2
161	162.0	13.458	35.691		0.02	26.835	0.321	1505.	5.1
163	164.1	13.352	35.674		0.02	26.844	0.323	1505.	4.7
165	166.1	13.296	35.669		0.02	26.852	0.326	1505.	4.1
167	168.1	13.250	35.665		0.02	26.858	0.328	1505.	3.1
169	169.9	13.222	35.659		0.03	26.859	0.330	1505.	2.4
171	172.0	13.202	35.656		0.03	26.861	0.333	1504.	2.0
173	174.0	13.190	35.655		0.03	26.862	0.335	1504.	1.7
175	176.0	13.176	35.653		0.03	26.864	0.338	1504.	1.5
177	178.0	13.168	35.652		0.03	26.864	0.340	1504.	1.5
179	180.0	13.158	35.650		0.02	26.865	0.343	1504.	1.5
180	181.8	13.141	35.649		0.02	26.868	0.345	1504.	1.5
183	184.1	13.123	35.646		0.02	26.869	0.348	1504.	1.5
184	185.9	13.115	35.645		0.02	26.870	0.350	1504.	1.7
186	187.9	13.100	35.643		0.02	26.872	0.352	1504.	2.3
189	190.1	13.088	35.642		0.02	26.873	0.355	1504.	3.1
190	192.0	13.079	35.641		0.02	26.875	0.357	1504.	3.7
192	194.0	13.039	35.639		0.02	26.881	0.360	1504.	3.9
194	196.0	12.904	35.628		0.02	26.900	0.362	1504.	4.1
196	198.0	12.690	35.607		0.02	26.926	0.365	1503.	4.0

SHIP	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH
OC	159	37	19 NOV 1984	1510	39°48.9'N	70°05.6'W	1140

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
198	199.9	12.568	35.586		0.02	26.934	0.367	1503.	3.7
200	202.0	12.554	35.584		0.03	26.935	0.369	1503.	3.2
202	204.1	12.543	35.583		0.03	26.937	0.372	1503.	2.4
204	205.9	12.534	35.582		0.03	26.938	0.374	1503.	1.7
206	208.1	12.528	35.581		0.03	26.938	0.376	1503.	1.8
208	210.1	12.521	35.580		0.03	26.939	0.379	1503.	2.3
210	212.1	12.505	35.579		0.03	26.941	0.381	1503.	2.8
212	214.0	12.470	35.575		0.03	26.945	0.383	1503.	3.2
214	215.9	12.416	35.571		0.03	26.952	0.385	1502.	3.5
216	218.1	12.310	35.564		0.03	26.968	0.388	1502.	3.7
218	219.8	12.204	35.547		0.03	26.976	0.390	1502.	3.7
220	222.0	12.101	35.538		0.03	26.988	0.392	1501.	3.6
222	223.9	12.057	35.528		0.03	26.989	0.394	1501.	3.4
224	225.9	11.997	35.523		0.03	26.996	0.397	1501.	3.2
226	228.1	11.930	35.514		0.03	27.003	0.399	1501.	3.1
228	229.9	11.890	35.508		0.03	27.005	0.401	1501.	2.9
230	232.1	11.809	35.501		0.03	27.016	0.403	1501.	2.7
232	233.9	11.752	35.491		0.03	27.019	0.405	1500.	2.4
234	236.0	11.712	35.486		0.03	27.022	0.408	1500.	2.1
236	238.0	11.704	35.484		0.03	27.022	0.410	1500.	1.8
238	239.9	11.700	35.483		0.03	27.022	0.412	1500.	1.8
240	242.1	11.692	35.482		0.03	27.023	0.414	1500.	2.3
242	244.0	11.686	35.482		0.03	27.024	0.416	1500.	2.9
244	246.1	11.669	35.482		0.03	27.027	0.419	1500.	3.5
246	248.2	11.605	35.482		0.03	27.039	0.421	1500.	3.8
248	250.0	11.460	35.460		0.03	27.049	0.423	1500.	4.0
250	252.1	11.306	35.449		0.03	27.069	0.425	1499.	3.9
252	253.9	11.129	35.421		0.03	27.080	0.427	1499.	3.8
254	256.1	11.048	35.405		0.03	27.083	0.429	1498.	3.6
256	258.1	11.010	35.400		0.03	27.086	0.431	1498.	3.6
258	260.1	10.997	35.398		0.03	27.087	0.433	1498.	3.6
260	262.0	10.947	35.398		0.03	27.096	0.435	1498.	3.5
262	263.9	10.840	35.393		0.02	27.111	0.437	1498.	3.4
264	266.0	10.720	35.387		0.02	27.128	0.439	1497.	3.1
266	268.0	10.629	35.373		0.02	27.133	0.441	1497.	2.7
268	270.1	10.588	35.352		0.03	27.124	0.443	1497.	2.0
270	272.0	10.576	35.349		0.03	27.124	0.445	1497.	1.0
272	274.0	10.572	35.348		0.02	27.124	0.447	1497.	-0.8
274	276.1	10.570	35.347		0.02	27.124	0.449	1497.	0.8
276	278.0	10.566	35.347		0.02	27.124	0.451	1497.	1.6
278	280.1	10.561	35.347		0.02	27.125	0.453	1497.	1.8
280	282.0	10.551	35.346		0.02	27.126	0.455	1497.	2.0
282	284.0	10.515	35.349		0.02	27.135	0.457	1497.	2.1
284	286.0	10.469	35.342		0.02	27.138	0.459	1497.	2.1
286	288.1	10.436	35.333		0.02	27.137	0.461	1497.	2.5
288	290.0	10.390	35.328		0.02	27.141	0.463	1496.	3.1
290	292.0	10.376	35.326		0.02	27.142	0.465	1496.	3.3
292	294.0	10.368	35.324		0.02	27.142	0.467	1496.	3.6
293	296.0	10.305	35.343		0.02	27.167	0.469	1496.	3.9
296	298.1	10.082	35.318		0.02	27.187	0.471	1495.	4.1

SHIP	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH
OC	159	37	19 NOV 1984	1510	39°48.9'N	70°05.6'W	1140

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
297	299.9	9.921	35.277		0.02	27.182	0.472	1495.	4.1
300	302.1	9.876	35.279		0.02	27.192	0.475	1495.	4.1
301	303.9	9.787	35.269		0.02	27.199	0.476	1494.	3.8
304	306.2	9.624	35.256		0.01	27.216	0.478	1494.	3.6
305	307.9	9.472	35.227		0.01	27.219	0.480	1493.	3.5
307	310.0	9.394	35.229		0.01	27.233	0.482	1493.	3.2
309	312.0	9.323	35.215		0.01	27.234	0.484	1493.	3.0
311	314.1	9.273	35.202		0.01	27.233	0.485	1493.	3.0
313	315.9	9.251	35.201		0.01	27.235	0.487	1493.	3.0
315	318.0	9.225	35.203		0.01	27.241	0.489	1492.	3.0
317	320.0	9.169	35.204		0.01	27.251	0.491	1492.	3.1
319	322.0	9.062	35.199		0.01	27.264	0.492	1492.	3.2
321	324.1	8.993	35.185		0.01	27.265	0.494	1492.	3.5
323	325.9	8.951	35.181		0.01	27.268	0.496	1492.	3.4
325	328.1	8.926	35.178		0.01	27.270	0.498	1492.	3.3
327	329.9	8.852	35.181		0.01	27.284	0.499	1491.	3.2
329	331.9	8.745	35.181		0.00	27.301	0.501	1491.	3.2
331	334.0	8.692	35.162		0.00	27.294	0.503	1491.	3.1
333	336.1	8.643	35.159		0.00	27.300	0.504	1491.	3.0
335	337.9	8.595	35.156		0.00	27.305	0.506	1490.	2.7
337	340.1	8.556	35.152		0.01	27.308	0.508	1490.	2.6
339	342.0	8.531	35.151		0.01	27.311	0.509	1490.	2.7
341	344.0	8.491	35.156		0.01	27.322	0.511	1490.	2.5
343	346.0	8.443	35.148		0.01	27.323	0.512	1490.	2.3
345	348.1	8.393	35.144		0.01	27.327	0.514	1490.	2.1
347	350.0	8.370	35.140		0.01	27.328	0.516	1490.	2.1
349	352.1	8.366	35.139		0.01	27.328	0.517	1490.	2.3
351	353.9	8.358	35.139		0.01	27.328	0.519	1490.	2.5
353	356.0	8.346	35.140		0.01	27.331	0.520	1490.	2.6
355	358.0	8.294	35.138		0.01	27.338	0.522	1490.	2.8
357	359.9	8.200	35.139		0.01	27.353	0.523	1489.	2.9
359	362.0	8.155	35.129		0.01	27.352	0.525	1489.	2.8
361	364.1	8.138	35.130		0.01	27.356	0.527	1489.	2.6
363	366.1	8.099	35.128		0.01	27.360	0.528	1489.	2.5
365	367.8	8.072	35.126		0.01	27.362	0.530	1489.	2.4
367	370.0	8.055	35.124		0.01	27.363	0.531	1489.	2.5
369	372.0	8.027	35.122		0.01	27.366	0.533	1489.	2.6
371	373.9	7.979	35.123		0.01	27.374	0.534	1489.	2.6
373	376.0	7.943	35.124		0.01	27.380	0.536	1489.	2.7
375	378.3	7.893	35.119		0.01	27.383	0.538	1488.	2.9
377	380.0	7.848	35.113		0.01	27.386	0.539	1488.	2.8
379	381.9	7.832	35.113		0.01	27.388	0.540	1488.	2.7
381	384.1	7.798	35.115		0.01	27.395	0.542	1488.	2.7
383	386.1	7.729	35.115		0.01	27.405	0.543	1488.	2.7
385	388.0	7.681	35.107		0.01	27.406	0.545	1488.	2.8
387	390.0	7.655	35.103		0.01	27.406	0.546	1488.	2.8
389	392.1	7.611	35.101		0.01	27.411	0.548	1488.	2.8
390	393.9	7.563	35.100		0.01	27.417	0.549	1487.	2.6
393	396.1	7.497	35.096		0.01	27.424	0.551	1487.	2.7
395	398.0	7.459	35.093		0.01	27.427	0.552	1487.	2.6

SHIP	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH
OC	159	37	19 NOV 1984	1510	39°48.9'N	70°05.6'W	1140

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
396	399.9	7.432	35.093		0.01	27.431	0.553	1487.	2.5
399	402.0	7.411	35.091		0.01	27.432	0.555	1487.	2.4
401	404.1	7.388	35.091		0.01	27.436	0.556	1487.	2.3
403	406.0	7.371	35.090		0.01	27.437	0.558	1487.	2.3
404	408.0	7.331	35.091		0.02	27.444	0.559	1487.	2.2
407	410.1	7.278	35.085		0.02	27.447	0.561	1487.	2.0
408	411.9	7.259	35.084		0.02	27.449	0.562	1487.	1.8
410	414.1	7.247	35.083		0.02	27.449	0.563	1487.	1.6
412	416.0	7.237	35.082		0.02	27.450	0.565	1487.	1.3
414	418.0	7.231	35.081		0.02	27.450	0.566	1487.	1.3
416	419.9	7.221	35.080		0.02	27.451	0.567	1487.	1.8
418	422.1	7.210	35.078		0.02	27.451	0.569	1486.	2.1
420	423.7	7.201	35.079		0.01	27.453	0.570	1486.	2.4
422	426.1	7.143	35.073		0.01	27.457	0.572	1486.	2.6
424	427.9	7.056	35.074		0.01	27.469	0.573	1486.	2.8
426	430.0	7.011	35.065		0.01	27.469	0.574	1486.	2.9
428	432.0	6.986	35.067		0.01	27.474	0.576	1486.	2.8
430	434.0	6.943	35.066		0.02	27.479	0.577	1486.	2.6
432	436.0	6.888	35.066		0.02	27.487	0.578	1485.	2.2
434	437.8	6.857	35.062		0.02	27.488	0.579	1485.	2.0
436	440.0	6.846	35.060		0.02	27.488	0.581	1485.	1.5
438	442.0	6.845	35.060		0.02	27.488	0.582	1485.	1.1
440	444.1	6.846	35.060		0.02	27.488	0.584	1485.	0.5
442	445.9	6.846	35.060		0.02	27.487	0.585	1485.	0.5
444	448.0	6.848	35.060		0.02	27.487	0.586	1486.	0.5
446	450.0	6.846	35.060		0.01	27.488	0.587	1486.	0.5
448	452.0	6.836	35.059		0.01	27.488	0.589	1486.	0.8
450	454.0	6.831	35.059		0.02	27.489	0.590	1486.	1.5
452	456.1	6.839	35.059		0.02	27.488	0.591	1486.	1.8
454	457.8	6.842	35.060		0.02	27.489	0.593	1486.	2.0
456	460.1	6.827	35.060		0.02	27.491	0.594	1486.	2.2
458	462.0	6.754	35.066		0.02	27.505	0.595	1485.	2.2
460	464.0	6.712	35.056		0.02	27.503	0.597	1485.	2.2
462	466.1	6.692	35.053		0.02	27.503	0.598	1485.	2.1
464	468.0	6.684	35.055		0.02	27.506	0.599	1485.	1.6
466	470.0	6.668	35.054		0.02	27.507	0.600	1485.	1.1
468	472.0	6.655	35.053		0.02	27.509	0.602	1485.	1.3
470	474.1	6.647	35.057		0.01	27.513	0.603	1485.	1.4
472	476.0	6.652	35.045		0.01	27.503	0.604	1485.	1.5
474	478.1	6.639	35.050		0.01	27.508	0.606	1485.	1.6
476	480.0	6.616	35.052		0.01	27.513	0.607	1485.	1.8
478	482.0	6.591	35.051		0.01	27.516	0.608	1485.	1.9
480	484.0	6.567	35.049		0.01	27.517	0.609	1485.	2.1
482	486.0	6.545	35.049		0.01	27.520	0.611	1485.	1.9
484	488.0	6.533	35.047		0.01	27.520	0.612	1485.	1.8
486	490.1	6.520	35.048		0.01	27.523	0.613	1485.	1.5
488	492.0	6.506	35.048		0.01	27.524	0.614	1485.	1.4
490	494.0	6.497	35.048		0.01	27.525	0.616	1485.	1.3
492	496.1	6.486	35.051		0.01	27.530	0.617	1485.	1.4
493	497.9	6.491	35.041		0.01	27.521	0.618	1485.	1.4

SHIP	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH
OC	159	37	19 NOV 1984	1510	39°48.9'N	70°05.6'W	1140

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
496	500.1	6.480	35.047		0.01	27.528	0.619	1485.	1.4
515	520.0	6.356	35.044		0.01	27.542	0.632	1485.	1.9
535	540.0	6.165	35.032		0.01	27.557	0.644	1484.	1.8
555	560.0	5.944	35.021		0.02	27.576	0.655	1484.	2.3
575	580.0	5.654	35.026		0.01	27.617	0.667	1483.	2.2
595	600.0	5.400	35.004		0.00	27.631	0.677	1482.	2.2
614	620.0	5.119	34.995		0.00	27.658	0.688	1481.	1.7
634	640.0	5.053	34.993		0.00	27.664	0.698	1481.	1.4
654	660.0	4.859	34.986		0.00	27.681	0.707	1481.	1.7
674	680.0	4.702	34.980		0.00	27.694	0.717	1481.	0.9
693	700.0	4.630	34.975		0.01	27.698	0.726	1481.	0.6
713	720.0	4.598	34.973		0.02	27.700	0.735	1481.	0.8
733	740.1	4.582	34.972		0.02	27.701	0.745	1481.	0.5
753	760.1	4.556	34.971		0.02	27.703	0.754	1481.	-0.5
773	780.1	4.531	34.971		0.01	27.706	0.763	1482.	0.6
792	800.0	4.527	34.970		0.01	27.705	0.772	1482.	0.3
812	820.1	4.521	34.970		0.01	27.706	0.782	1482.	0.3
832	840.0	4.506	34.970		0.01	27.708	0.791	1482.	0.5
852	860.0	4.492	34.969		0.01	27.709	0.800	1483.	0.8
871	880.0	4.432	34.967		0.01	27.714	0.810	1483.	0.7
891	899.9	4.420	34.966		0.01	27.714	0.819	1483.	0.1
911	920.0	4.421	34.966		0.01	27.714	0.828	1483.	0.4
931	940.0	4.380	34.965		0.01	27.718	0.838	1484.	0.9
950	960.0	4.345	34.964		0.01	27.721	0.847	1484.	0.6
970	980.1	4.320	34.963		0.01	27.723	0.856	1484.	1.0
990	1000.0	4.258	34.961		0.01	27.728	0.865	1484.	0.9
1010	1020.0	4.213	34.959		0.01	27.731	0.875	1484.	0.6
1030	1040.0	4.199	34.958		0.01	27.732	0.884	1485.	0.4
1049	1060.0	4.194	34.958		0.01	27.733	0.893	1485.	0.3
1069	1080.0	4.194	34.958		0.01	27.732	0.902	1485.	0.2
1088	1099.0	4.194	34.958		0.01	27.732	0.911	1485.	0.2

SHIP	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH
OC	159	38	19 NOV 1984	1950	3° 58.' N	7° 55.' W	37

DEPTH m	PRESS dbar	TEMP °C	SALIN psu	OXY ml/l	ATN m^{-1}	SIGT gm/cm^3	DYHT A $10m^2/s^2$	S SPD m/s	N cph
2	1.9	16.689	34.987		0.06	25.579	0.000	1512.	-1.0
4	3.9	16.685	34.989		0.06	25.581	0.005	1512.	-1.0
6	6.1	16.675	34.983		0.06	25.579	0.010	1512.	-1.0
8	8.1	16.676	34.986		0.06	25.581	0.015	1512.	-1.0
10	9.7	16.710	34.986		0.06	25.573	0.019	1512.	-1.0
12	12.1	16.725	35.005		0.06	25.584	0.024	1512.	-1.0
14	14.0	16.801	34.993		0.06	25.557	0.029	1512.	-0.6
16	16.1	16.835	35.041		0.06	25.586	0.034	1513.	-0.1
18	18.1	16.834	35.025		0.06	25.574	0.039	1513.	1.1
20	19.8	16.897	35.046		0.06	25.575	0.043	1513.	0.5
22	22.2	16.870	35.041		0.06	25.578	0.049	1513.	0.5
24	23.9	16.873	35.040		0.06	25.576	0.053	1513.	-1.3
26	25.9	16.847	35.039		0.06	25.582	0.058	1513.	1.1
28	28.0	16.871	35.032		0.06	25.570	0.063	1513.	1.7
30	29.9	16.894	35.033		0.05	25.565	0.067	1513.	2.1
32	31.8	17.039	35.093		0.05	25.578	0.072	1514.	2.4
34	33.9	17.114	35.133		0.05	25.590	0.077	1514.	2.4
36	36.2	17.116	35.139		0.05	25.594	0.082	1514.	2.5
38	38.1	17.081	35.132		0.05	25.598	0.087	1514.	2.3
40	40.0	17.054	35.125		0.05	25.598	0.091	1514.	1.6
42	41.9	17.077	35.128		0.05	25.595	0.096	1514.	1.2
44	44.0	17.111	35.138		0.05	25.594	0.101	1514.	1.1
46	45.8	17.154	35.154		0.05	25.597	0.105	1514.	1.2
48	48.0	17.192	35.167		0.05	25.597	0.111	1514.	1.6
50	49.9	17.212	35.178		0.05	25.601	0.115	1514.	2.0
52	52.1	17.217	35.181		0.05	25.603	0.121	1515.	2.2
53	53.8	17.219	35.183		0.05	25.603	0.124	1515.	2.3
56	56.2	17.214	35.189		0.06	25.609	0.130	1515.	2.4
58	57.9	17.233	35.204		0.06	25.616	0.134	1515.	2.6
60	60.1	17.251	35.214		0.06	25.620	0.140	1515.	2.8
61	61.9	17.269	35.221		0.06	25.621	0.144	1515.	3.0
64	63.9	17.320	35.241		0.06	25.624	0.149	1515.	3.1
66	66.1	17.387	35.277		0.05	25.635	0.154	1515.	3.8
67	67.8	17.419	35.298		0.05	25.643	0.158	1516.	5.1
70	70.1	17.365	35.293		0.05	25.652	0.163	1515.	6.5
72	72.0	17.328	35.288		0.04	25.658	0.168	1515.	7.9
74	74.0	17.269	35.333		0.04	25.707	0.172	1515.	8.7
76	76.0	17.188	35.400		0.03	25.777	0.177	1515.	9.3
77	77.9	17.076	35.481		0.03	25.867	0.181	1515.	9.7
80	80.1	16.966	35.563		0.03	25.956	0.186	1515.	9.8
81	81.8	16.881	35.574		0.04	25.984	0.189	1514.	9.5
84	84.2	16.606	35.560		0.05	26.038	0.194	1514.	9.1
85	86.0	16.420	35.551		0.05	26.075	0.197	1513.	8.7
88	88.1	16.373	35.616		0.04	26.136	0.202	1513.	8.3
89	90.1	16.287	35.649		0.04	26.181	0.205	1513.	8.2
91	92.0	16.198	35.677		0.03	26.224	0.209	1513.	8.0
93	93.9	16.109	35.694		0.03	26.258	0.212	1512.	7.6
95	95.9	16.021	35.703		0.04	26.285	0.216	1512.	7.0
97	98.0	15.904	35.710		0.05	26.317	0.219	1512.	6.6
100	100.2	15.705	35.711		0.07	26.363	0.223	1511.	6.0

SHIP	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH
OC	159	38	19 NOV 1984	1950	3° 58.' N	7° 55.' W	37

DEPTH m	PRESS dbar	TEMP °C	SALIN psu	OXY ml/l	ATN m^{-1}	SIGT gm/cm^3	DYHT A $10m^2/s^2$	S SPD m/s	N cph
101	101.8	15.636	35.693		0.07	26.365	0.226	1511.	5.5
103	104.1	15.546	35.685		0.09	26.379	0.230	1511.	5.2
105	105.9	15.371	35.663		0.11	26.402	0.233	1510.	5.2
107	108.1	15.302	35.640		0.12	26.399	0.236	1510.	5.3
109	109.8	15.228	35.627		0.14	26.406	0.239	1510.	5.7
111	112.1	15.080	35.630		0.15	26.441	0.243	1510.	5.9
113	113.9	14.812	35.604		0.14	26.480	0.246	1509.	5.9
115	116.1	14.749	35.617		0.12	26.503	0.249	1509.	5.8
117	118.0	14.711	35.635		0.11	26.526	0.252	1508.	5.5
119	120.0	14.697	35.649		0.10	26.540	0.255	1508.	4.9
121	122.2	14.735	35.670		0.07	26.548	0.258	1509.	4.3
123	124.1	14.743	35.683		0.07	26.556	0.261	1509.	3.9
125	126.1	14.723	35.686		0.08	26.563	0.264	1509.	3.7
127	128.2	14.656	35.683		0.09	26.575	0.267	1508.	4.0
129	129.9	14.606	35.675		0.09	26.580	0.270	1508.	4.4
131	132.2	14.588	35.680		0.09	26.587	0.273	1508.	4.6
133	133.9	14.537	35.682		0.09	26.600	0.276	1508.	4.8
135	135.8	14.417	35.684		0.09	26.628	0.279	1508.	4.7
137	138.2	14.352	35.695		0.07	26.650	0.282	1508.	4.6
139	139.9	14.294	35.691		0.06	26.659	0.285	1508.	4.5
141	141.9	14.273	35.691		0.06	26.664	0.287	1508.	4.1
143	144.0	14.246	35.693		0.06	26.671	0.290	1507.	3.5
145	145.8	14.202	35.690		0.06	26.678	0.293	1507.	3.2
147	147.8	14.163	35.691		0.06	26.687	0.296	1507.	3.1
149	150.2	14.123	35.688		0.06	26.694	0.299	1507.	3.2
151	152.1	14.105	35.685		0.06	26.695	0.301	1507.	3.4
153	154.0	14.084	35.687		0.06	26.701	0.304	1507.	3.6
155	156.2	14.060	35.687		0.06	26.707	0.307	1507.	3.7
157	157.8	14.019	35.690		0.06	26.717	0.309	1507.	3.9
159	160.0	13.942	35.694		0.05	26.737	0.312	1507.	4.3
161	162.1	13.877	35.692		0.05	26.749	0.315	1507.	4.6
163	164.1	13.836	35.685		0.06	26.752	0.318	1506.	4.7
165	166.1	13.788	35.685		0.06	26.762	0.320	1506.	4.6
167	167.9	13.673	35.688		0.09	26.788	0.323	1506.	4.7
169	170.1	13.527	35.677		0.07	26.811	0.326	1506.	4.8
171	172.0	13.480	35.667		0.07	26.812	0.328	1505.	4.8
173	174.1	13.469	35.673		0.06	26.819	0.331	1505.	4.6
175	175.7	13.322	35.667		0.07	26.845	0.333	1505.	4.2
177	178.1	13.216	35.658		0.07	26.859	0.336	1505.	3.9
179	180.1	13.165	35.652		0.04	26.865	0.338	1504.	3.8
181	182.0	13.149	35.655		0.03	26.871	0.340	1504.	3.8
183	184.2	13.136	35.657		0.03	26.875	0.343	1504.	3.8
185	186.1	13.114	35.654		0.03	26.877	0.345	1504.	4.0
187	187.9	13.097	35.656		0.03	26.882	0.348	1504.	4.1
189	190.1	12.892	35.649		0.02	26.918	0.350	1504.	4.1
191	192.2	12.772	35.629		0.02	26.927	0.353	1503.	4.0
193	193.9	12.690	35.613		0.02	26.931	0.355	1503.	3.7
195	196.0	12.628	35.607		0.02	26.938	0.357	1503.	3.2
196	197.8	12.586	35.595		0.02	26.937	0.359	1503.	2.5
199	200.0	12.551	35.592		0.03	26.942	0.362	1503.	2.2

SHIP	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH
OC	159	38	19 NOV 1984	1950	3° 58.' N	7° 55.' W	37

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
201	202.1	12.518	35.588		0.03	26.946	0.364	1503.	2.1
203	204.1	12.492	35.583		0.04	26.947	0.366	1503.	2.3
205	206.0	12.466	35.579		0.04	26.949	0.369	1502.	2.7
207	208.0	12.454	35.577		0.04	26.950	0.371	1502.	2.9
209	210.0	12.430	35.577		0.05	26.955	0.373	1502.	3.0
210	211.9	12.353	35.576		0.06	26.968	0.375	1502.	3.1
213	214.0	12.244	35.561		0.05	26.978	0.378	1502.	3.1
214	215.9	12.159	35.545		0.05	26.983	0.380	1502.	3.3
217	218.0	12.134	35.539		0.05	26.983	0.382	1502.	3.3
218	219.9	12.120	35.536		0.05	26.983	0.384	1501.	3.2
220	221.9	12.055	35.532		0.06	26.993	0.387	1501.	3.2
222	224.0	11.952	35.528		0.06	27.009	0.389	1501.	3.2
225	226.1	11.844	35.507		0.06	27.014	0.391	1501.	3.2
226	227.9	11.787	35.500		0.06	27.019	0.393	1500.	3.0
228	229.9	11.740	35.491		0.04	27.021	0.395	1500.	2.8
230	231.8	11.702	35.484		0.03	27.023	0.397	1500.	2.6
232	234.0	11.680	35.484		0.03	27.027	0.400	1500.	2.7
234	235.8	11.649	35.478		0.04	27.028	0.402	1500.	2.7
237	238.2	11.584	35.480		0.06	27.042	0.404	1500.	2.7
238	239.8	11.505	35.463		0.07	27.043	0.406	1500.	2.9
240	242.0	11.456	35.458		0.07	27.049	0.408	1499.	3.1
242	244.0	11.418	35.448		0.07	27.048	0.410	1499.	3.3
244	246.0	11.400	35.449		0.07	27.052	0.413	1499.	3.4
246	248.0	11.328	35.450		0.07	27.066	0.415	1499.	3.7
248	250.0	11.229	35.442		0.06	27.078	0.417	1499.	4.0
250	252.1	11.092	35.421		0.04	27.087	0.419	1498.	4.6
252	253.9	10.979	35.398		0.03	27.090	0.421	1498.	4.9
254	256.0	10.866	35.394		0.03	27.107	0.423	1498.	4.9
256	258.1	10.713	35.379		0.02	27.123	0.425	1497.	4.8
258	260.0	10.508	35.383		0.02	27.163	0.427	1496.	4.7
260	261.9	10.241	35.330		0.02	27.168	0.429	1495.	4.4
262	264.3	10.063	35.289		0.02	27.167	0.431	1495.	3.8
264	265.8	9.974	35.279		0.02	27.175	0.432	1494.	3.2
266	267.9	9.943	35.274		0.02	27.176	0.434	1494.	2.4
268	269.8	9.898	35.268		0.02	27.180	0.436	1494.	2.4
270	272.1	9.874	35.266		0.02	27.182	0.438	1494.	2.3
272	273.9	9.850	35.266		0.02	27.186	0.440	1494.	2.2
274	276.0	9.811	35.264		0.02	27.191	0.442	1494.	2.2
276	278.0	9.774	35.256		0.02	27.191	0.444	1494.	2.3
278	280.0	9.753	35.252		0.03	27.192	0.446	1494.	2.3
280	282.0	9.725	35.252		0.03	27.196	0.447	1494.	2.3
282	284.2	9.683	35.248		0.03	27.200	0.449	1494.	2.3
284	285.9	9.631	35.246		0.04	27.207	0.451	1494.	2.4
286	288.2	9.580	35.238		0.04	27.209	0.453	1493.	2.3
288	290.0	9.566	35.236		0.04	27.211	0.455	1493.	2.2
290	292.0	9.558	35.238		0.04	27.213	0.457	1493.	2.0
292	294.0	9.537	35.236		0.04	27.215	0.458	1493.	1.8
294	296.0	9.503	35.232		0.04	27.218	0.460	1493.	1.6
296	297.9	9.476	35.229		0.04	27.220	0.462	1493.	1.5
298	300.0	9.467	35.227		0.04	27.220	0.464	1493.	1.3

SHIP	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH
OC	159	38	19 NOV 1984	1950	3° 58.' N	7° 55.' W	37

DEPTH m	PRESS dbar	TEMP °C	SALIN psu	OXY ml/l	ATN m^{-1}	SIGT gm/cm^3	DYHT A $10m^2/s^2$	S SPD m/s	N cph
300	302.0	9.468	35.228		0.04	27.220	0.466	1493.	1.0
302	304.0	9.469	35.228		0.04	27.220	0.467	1493.	0.8
304	305.9	9.465	35.228		0.04	27.221	0.469	1493.	0.6
306	308.1	9.458	35.227		0.04	27.221	0.471	1493.	0.5
308	310.2	9.454	35.226		0.04	27.221	0.473	1493.	0.5
310	312.1	9.454	35.225		0.04	27.221	0.475	1493.	0.5
312	314.0	9.456	35.226		0.04	27.221	0.476	1493.	0.7
314	315.8	9.455	35.226		0.04	27.221	0.478	1493.	0.9
316	318.0	9.451	35.226		0.04	27.221	0.480	1493.	1.0
318	320.3	9.445	35.225		0.04	27.222	0.482	1493.	1.2
320	322.0	9.437	35.226		0.04	27.224	0.484	1493.	1.2
321	323.8	9.427	35.225		0.05	27.225	0.485	1493.	1.3
324	326.0	9.422	35.224		0.05	27.225	0.487	1493.	1.5
326	328.0	9.417	35.225		0.04	27.227	0.489	1493.	1.7
328	330.0	9.408	35.223		0.04	27.226	0.491	1493.	1.8
330	332.1	9.390	35.222		0.05	27.229	0.493	1493.	2.0
332	334.1	9.367	35.223		0.05	27.233	0.495	1493.	2.4
334	336.0	9.315	35.219		0.05	27.238	0.496	1493.	2.9
335	338.0	9.289	35.213		0.05	27.239	0.498	1493.	3.6
337	339.9	9.243	35.211		0.05	27.244	0.500	1493.	4.0
340	342.0	9.176	35.210		0.06	27.254	0.502	1493.	4.2
341	344.0	9.051	35.203		0.06	27.269	0.503	1492.	4.2
343	346.0	8.888	35.205		0.07	27.297	0.505	1492.	4.3
345	347.9	8.746	35.182		0.08	27.302	0.507	1491.	4.1
347	350.1	8.676	35.170		0.08	27.304	0.508	1491.	3.7
349	351.3	8.641	35.164		0.09	27.304	0.509	1491.	3.1
349	351.9	8.637	35.164		0.09	27.305	0.510	1491.	2.4
350	353.1	8.627	35.162		0.09	27.305	0.511	1491.	2.5
351	354.0	8.614	35.163		0.10	27.307	0.512	1491.	2.7
352	355.0	8.603	35.166		0.11	27.312	0.512	1491.	3.5
353	355.9	8.558	35.163		0.11	27.316	0.513	1491.	3.8
354	357.0	8.528	35.157		0.12	27.316	0.514	1491.	4.1
355	358.0	8.501	35.155		0.12	27.319	0.515	1490.	4.3
356	358.9	8.388	35.158		0.12	27.339	0.516	1490.	4.4
357	360.0	8.356	35.150		0.12	27.338	0.517	1490.	4.4
358	361.0	8.330	35.152		0.12	27.343	0.517	1490.	3.8
359	362.0	8.278	35.150		0.12	27.350	0.518	1490.	3.0
360	363.0	8.229	35.150		0.12	27.357	0.519	1489.	1.8
361	364.0	8.192	35.142		0.12	27.357	0.520	1489.	1.8
362	365.0	8.316	35.143		0.12	27.339	0.520	1490.	1.8
363	366.0	8.232	35.137		0.12	27.347	0.521	1490.	1.8
364	366.8	8.224	35.135		0.12	27.346	0.522	1490.	1.8

SHIP	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH
OC	159	39	19 NOV 1984	2102	40°03.4'N	70°54.9'W	197

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	15.423	34.335		0.04	25.367	0.000	1507.	-0.4
2	2.0	15.416	34.333		0.05	25.367	0.003	1507.	-0.4
4	4.2	15.419	34.333		0.04	25.366	0.009	1507.	-0.4
6	5.9	15.420	34.333		0.04	25.366	0.013	1507.	-0.4
8	8.2	15.450	34.340		0.04	25.365	0.019	1507.	-0.4
10	9.9	15.442	34.339		0.04	25.366	0.024	1507.	-0.2
12	12.0	15.424	34.335		0.04	25.366	0.029	1507.	0.3
14	14.0	15.429	34.335		0.04	25.366	0.034	1507.	0.4
16	15.9	15.432	34.336		0.04	25.365	0.039	1508.	0.3
18	18.0	15.429	34.336		0.04	25.366	0.045	1508.	-0.4
20	20.0	15.431	34.336		0.04	25.366	0.050	1508.	0.5
22	21.9	15.427	34.335		0.04	25.366	0.055	1508.	0.8
24	24.0	15.439	34.337		0.04	25.364	0.060	1508.	0.9
26	26.1	15.462	34.343		0.04	25.364	0.066	1508.	1.1
28	28.1	15.602	34.390		0.04	25.369	0.071	1508.	1.3
30	29.9	15.607	34.392		0.04	25.369	0.076	1508.	1.6
32	32.2	15.629	34.396		0.05	25.368	0.082	1508.	1.8
34	34.1	15.726	34.431		0.04	25.373	0.087	1509.	1.9
36	36.1	15.772	34.445		0.04	25.373	0.092	1509.	1.8
38	38.0	15.842	34.472		0.04	25.378	0.097	1509.	2.9
40	40.0	15.995	34.521		0.05	25.381	0.102	1510.	4.3
42	42.1	16.160	34.573		0.04	25.383	0.107	1510.	5.3
44	43.9	16.431	34.650		0.05	25.380	0.112	1511.	5.9
46	46.0	17.632	35.091		0.04	25.433	0.118	1516.	6.1
48	48.0	18.226	35.362		0.05	25.494	0.123	1518.	6.2
50	50.2	18.386	35.454		0.03	25.525	0.128	1518.	6.0
52	51.9	18.347	35.450		0.03	25.531	0.132	1518.	5.4
54	54.1	18.294	35.428		0.04	25.528	0.138	1518.	4.5
55	55.8	18.224	35.416		0.03	25.536	0.142	1518.	3.9
58	58.0	18.196	35.422		0.03	25.548	0.147	1518.	4.2
60	60.0	18.233	35.441		0.03	25.553	0.152	1518.	5.0
62	62.1	18.300	35.478		0.03	25.565	0.157	1518.	5.6
63	63.9	18.326	35.524		0.03	25.594	0.162	1518.	6.1
66	66.0	18.336	35.566		0.03	25.623	0.167	1518.	6.5
68	68.1	18.245	35.589		0.03	25.664	0.172	1518.	6.8
69	69.9	18.148	35.587		0.03	25.686	0.176	1518.	7.1
71	72.0	18.043	35.591		0.03	25.716	0.181	1518.	7.1
73	74.0	17.908	35.590		0.03	25.748	0.185	1517.	7.1
75	76.0	17.773	35.582		0.03	25.775	0.190	1517.	7.2
77	77.9	17.580	35.589		0.03	25.828	0.194	1517.	7.5
79	80.1	17.488	35.589		0.03	25.850	0.199	1516.	7.9
81	81.9	17.345	35.580		0.03	25.877	0.203	1516.	8.3
83	84.0	17.159	35.581		0.03	25.923	0.207	1515.	8.6
85	85.9	16.944	35.578		0.04	25.972	0.211	1515.	8.6
87	88.2	16.677	35.594		0.04	26.048	0.215	1514.	8.5
89	89.8	16.511	35.617		0.05	26.104	0.219	1514.	8.1
91	92.0	16.395	35.626		0.05	26.138	0.223	1513.	7.8
93	94.0	16.323	35.634		0.05	26.161	0.227	1513.	7.4
95	95.9	16.284	35.641		0.05	26.176	0.230	1513.	6.9
97	98.0	16.233	35.651		0.05	26.196	0.234	1513.	6.8

SHIP	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH
OC	159	39	19 NOV 1984	2102	40°03.4'N	70°54.9'W	197

DEPTH m	PRESS dbar	TEMP °C	SALIN psu	OXY ml/l	ATN m^{-1}	SIGT gm/cm^3	DYHT A $10m^2/s^2$	S SPD m/s	N cph
99	99.9	16.094	35.674		0.06	26.245	0.238	1513.	6.9
101	102.1	16.007	35.699		0.06	26.285	0.241	1512.	7.1
103	103.9	15.953	35.705		0.06	26.302	0.245	1512.	7.3
105	106.0	15.805	35.707		0.06	26.337	0.248	1512.	7.3
107	108.1	15.628	35.700		0.05	26.372	0.252	1511.	7.1
109	110.0	15.548	35.725		0.04	26.410	0.255	1511.	7.1
111	112.0	15.592	35.788		0.03	26.448	0.258	1511.	7.0
113	114.1	15.573	35.808		0.03	26.468	0.261	1511.	6.8
115	115.9	15.425	35.799		0.04	26.494	0.264	1511.	6.5
117	118.1	15.267	35.799		0.04	26.529	0.268	1510.	5.8
119	120.0	15.177	35.788		0.04	26.542	0.271	1510.	5.8
121	121.9	15.057	35.793		0.04	26.572	0.274	1510.	5.9
123	124.1	15.040	35.802		0.04	26.583	0.277	1510.	6.1
125	125.9	14.858	35.723		0.07	26.562	0.279	1509.	6.2
127	128.0	14.289	35.663		0.11	26.639	0.282	1507.	6.2
129	130.0	14.129	35.637		0.13	26.653	0.285	1507.	6.1
131	132.0	13.997	35.657		0.12	26.696	0.288	1506.	6.0
133	134.0	13.965	35.666		0.12	26.710	0.291	1506.	5.9
135	136.0	13.949	35.669		0.12	26.716	0.294	1506.	5.1
137	138.0	13.863	35.666		0.13	26.732	0.296	1506.	4.9
139	140.1	13.808	35.663		0.12	26.741	0.299	1506.	4.6
141	141.9	13.718	35.668		0.14	26.763	0.302	1506.	4.6
143	144.0	13.611	35.657		0.16	26.777	0.304	1505.	4.7
145	146.2	13.525	35.649		0.17	26.789	0.307	1505.	4.7
147	147.8	13.493	35.647		0.16	26.794	0.309	1505.	4.9
149	150.0	13.401	35.644		0.15	26.811	0.312	1505.	5.0
151	152.0	13.305	35.642		0.14	26.829	0.314	1504.	5.2
153	154.1	13.195	35.631		0.11	26.843	0.317	1504.	5.3
155	155.9	12.985	35.613		0.08	26.872	0.319	1503.	5.2
157	158.0	12.909	35.620		0.06	26.892	0.322	1503.	4.9
159	160.1	12.807	35.612		0.04	26.907	0.324	1503.	4.4
161	162.0	12.749	35.609		0.04	26.916	0.326	1503.	3.8
163	164.1	12.730	35.608		0.03	26.919	0.329	1503.	2.9
165	165.9	12.721	35.607		0.04	26.920	0.331	1503.	2.4
167	168.0	12.718	35.607		0.04	26.921	0.334	1503.	2.0
169	170.1	12.705	35.605		0.04	26.922	0.336	1503.	1.8
171	172.0	12.672	35.597		0.04	26.922	0.338	1503.	1.7
173	173.9	12.626	35.596		0.04	26.931	0.340	1503.	1.7
175	176.1	12.627	35.597		0.04	26.931	0.343	1503.	1.7
177	178.1	12.630	35.597		0.04	26.931	0.345	1503.	1.6
178	179.9	12.625	35.596		0.04	26.931	0.347	1503.	1.5
180	181.3	12.620	35.596		0.04	26.932	0.349	1503.	1.2
181	182.0	12.614	35.596		0.04	26.933	0.350	1503.	1.7
182	183.1	12.610	35.594		0.05	26.932	0.351	1503.	1.9
182	184.0	12.595	35.593		0.07	26.934	0.352	1503.	1.8
183	185.0	12.576	35.591		0.10	26.936	0.353	1503.	1.9
184	186.0	12.537	35.586		0.11	26.940	0.354	1502.	1.9
186	187.0	12.546	35.585		0.12	26.938	0.356	1502.	1.9
186	188.0	12.532	35.579		0.14	26.936	0.357	1502.	1.7
187	189.0	12.515	35.582		0.15	26.941	0.358	1502.	1.6

SHIP	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH
OC	159	39	19 NOV 1984	2102	40°03.4'N	70°54.9'W	197

DEPTH m	PRESS dbar	TEMP °C	SALIN psu	OXY ml/l	ATN m^{-1}	SIGT gm/cm^3	DYHT A $10m^2/s^2$	S SPD m/s	N cph
189	190.0	12.520	35.583		0.15	26.941	0.359	1502.	1.5
189	191.0	12.517	35.582		0.17	26.941	0.360	1502.	1.6
190	192.0	12.506	35.581		0.18	26.942	0.361	1502.	1.6
191	193.0	12.503	35.581		0.17	26.943	0.362	1502.	1.6
192	194.0	12.498	35.581		0.19	26.944	0.364	1502.	1.6
193	194.7	12.508	35.581		0.18	26.942	0.365	1502.	1.6

SHIP	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH
OC	159	40	19 NOV 1984	2159	40°09.5'N	70°54.9'W	137

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
0	0.5	15.586	34.445		0.08	25.415	0.000	1508.	-0.6
2	1.8	15.596	34.447		0.08	25.414	0.003	1508.	-0.6
4	4.0	15.602	34.448		0.08	25.414	0.009	1508.	-0.6
6	6.2	15.599	34.448		0.08	25.414	0.015	1508.	-0.6
8	8.0	15.605	34.448		0.08	25.413	0.019	1508.	-0.6
10	10.1	15.600	34.446		0.08	25.413	0.025	1508.	-0.5
12	12.0	15.600	34.446		0.08	25.413	0.029	1508.	-0.5
14	14.0	15.596	34.446		0.08	25.413	0.035	1508.	-0.4
16	16.0	15.595	34.445		0.08	25.413	0.040	1508.	-0.4
18	18.0	15.585	34.441		0.08	25.412	0.045	1508.	-0.5
20	20.0	15.587	34.442		0.08	25.412	0.050	1508.	-0.6
22	22.0	15.589	34.442		0.08	25.412	0.055	1508.	-0.7
24	24.0	15.592	34.442		0.08	25.411	0.060	1508.	-0.6
26	26.0	15.602	34.445		0.08	25.411	0.065	1508.	1.5
28	28.1	15.602	34.443		0.08	25.410	0.071	1508.	2.2
30	29.9	15.599	34.442		0.08	25.410	0.075	1508.	3.3
32	32.0	15.609	34.447		0.08	25.411	0.081	1508.	4.1
34	34.0	15.815	34.538		0.08	25.435	0.086	1509.	4.6
36	36.0	16.505	34.753		0.06	25.442	0.091	1512.	4.8
38	38.0	17.192	35.011		0.04	25.478	0.096	1514.	4.7
40	40.1	17.692	35.201		0.04	25.502	0.101	1516.	4.4
42	41.9	17.694	35.202		0.04	25.503	0.106	1516.	3.8
44	44.0	17.698	35.204		0.04	25.503	0.111	1516.	3.3
46	46.1	17.696	35.205		0.04	25.505	0.116	1516.	2.6
48	48.0	17.705	35.211		0.04	25.507	0.121	1516.	2.3
50	50.1	17.797	35.249		0.04	25.514	0.126	1516.	2.6
52	52.0	17.880	35.280		0.04	25.517	0.131	1517.	3.1
54	54.2	17.937	35.308		0.04	25.524	0.136	1517.	3.3
55	55.9	17.929	35.310		0.04	25.528	0.140	1517.	3.7
58	58.1	17.784	35.276		0.04	25.537	0.146	1516.	4.2
60	60.1	17.806	35.303		0.04	25.553	0.151	1517.	5.0
61	62.0	18.021	35.375		0.04	25.555	0.155	1517.	6.0
64	64.1	18.238	35.483		0.03	25.584	0.160	1518.	6.6
65	66.0	18.240	35.512		0.03	25.606	0.165	1518.	7.1
67	67.9	18.274	35.600		0.03	25.665	0.170	1518.	7.5
70	70.1	18.067	35.601		0.03	25.717	0.174	1518.	8.0
71	72.1	17.949	35.592		0.03	25.739	0.179	1517.	8.5
73	73.9	17.865	35.602		0.03	25.767	0.183	1517.	9.1
75	76.0	17.619	35.596		0.04	25.823	0.188	1517.	9.5
78	78.1	17.372	35.596		0.04	25.883	0.192	1516.	9.7
79	79.8	16.929	35.560		0.04	25.963	0.196	1515.	9.6
81	81.9	16.561	35.579		0.05	26.064	0.200	1514.	9.2
83	84.0	16.427	35.598		0.05	26.110	0.204	1513.	8.7
85	86.1	16.359	35.613		0.05	26.137	0.208	1513.	8.1
87	88.0	16.344	35.618		0.05	26.145	0.212	1513.	7.5
89	90.0	16.301	35.623		0.06	26.158	0.216	1513.	7.2
91	91.9	15.981	35.616		0.08	26.227	0.219	1512.	7.5
93	94.0	15.723	35.571		0.09	26.251	0.223	1511.	7.6
95	96.1	15.508	35.568		0.11	26.298	0.227	1511.	7.8
97	97.9	15.435	35.599		0.11	26.338	0.230	1510.	7.6

SHIP	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH
OC	159	40	19 NOV 1984	2159	40°09.5'N	70°54.9'W	137

DEPTH m	PRESS dbar	TEMP °C	SALIN psu	OXY ml/l	ATN m^{-1}	SIGT gm/cm^3	DYHT A $10m^2/s^2$	S SPD m/s	N cph
99	99.9	15.305	35.623		0.11	26.385	0.233	1510.	6.9
101	102.1	15.301	35.640		0.10	26.400	0.237	1510.	6.5
103	103.9	15.344	35.694		0.08	26.431	0.240	1510.	6.0
105	106.0	15.354	35.717		0.07	26.447	0.243	1510.	5.6
107	108.1	15.297	35.709		0.07	26.453	0.246	1510.	5.2
109	110.2	15.136	35.691		0.08	26.476	0.250	1510.	5.3
111	111.9	15.068	35.693		0.08	26.492	0.252	1510.	5.3
113	114.1	14.988	35.693		0.08	26.510	0.256	1509.	5.6
115	115.9	14.896	35.674		0.10	26.516	0.259	1509.	6.0
117	118.0	14.710	35.672		0.10	26.555	0.262	1508.	6.3
119	120.1	14.561	35.662		0.14	26.579	0.265	1508.	6.6
120	121.2	14.480	35.659		0.20	26.595	0.267	1508.	6.9
121	122.0	14.340	35.661		0.23	26.626	0.268	1507.	6.9
122	123.0	14.270	35.658		0.26	26.639	0.269	1507.	6.3
123	124.0	14.225	35.658		0.30	26.649	0.271	1507.	5.6
124	125.1	14.205	35.659		0.33	26.654	0.272	1507.	4.7
125	125.9	14.196	35.658		0.35	26.655	0.273	1507.	3.5
126	127.0	14.185	35.659		0.36	26.658	0.275	1507.	2.7
127	128.0	14.180	35.659		0.37	26.659	0.276	1507.	2.1
128	129.0	14.173	35.658		0.38	26.660	0.278	1507.	1.8
129	130.0	14.168	35.658		0.39	26.661	0.279	1507.	1.5
130	131.0	14.165	35.657		0.39	26.661	0.280	1507.	1.2
131	132.0	14.164	35.657		0.39	26.661	0.282	1507.	1.2
132	133.0	14.164	35.657		0.39	26.661	0.283	1507.	1.2
133	134.1	14.163	35.657		0.40	26.661	0.285	1507.	1.2
134	135.1	14.161	35.656		0.41	26.661	0.286	1507.	1.2

SHIP	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH
OC	159	41	19 NOV 1984	2313	40°19.0'N	70°55.0'W	103

DEPTH m	PRESS dbar	TEMP °C	SALIN psu	OXY ml/l	ATN m^{-1}	SIGT gm/cm^3	DYHT A $10m^2/s^2$	S SPD m/s	N cph
1	0.8	15.377	34.316		0.12	25.363	0.000	1507.	-0.4
2	1.9	15.391	34.318		0.12	25.361	0.003	1507.	-0.4
4	4.1	15.395	34.320		0.12	25.361	0.009	1507.	-0.4
6	6.1	15.397	34.320		0.12	25.361	0.014	1507.	-0.4
8	8.0	15.393	34.318		0.12	25.360	0.019	1507.	-0.4
10	10.1	15.395	34.319		0.12	25.361	0.024	1507.	0.4
12	11.8	15.403	34.321		0.13	25.361	0.029	1507.	0.1
14	14.2	15.402	34.322		0.12	25.361	0.035	1507.	0.2
16	15.9	15.402	34.321		0.12	25.360	0.039	1507.	0.9
18	18.0	15.402	34.322		0.13	25.362	0.045	1507.	1.1
20	19.9	15.413	34.323		0.13	25.360	0.050	1508.	1.2
22	22.1	15.382	34.314		0.13	25.360	0.056	1507.	1.4
24	23.9	15.399	34.331		0.13	25.369	0.060	1508.	1.4
26	26.0	15.479	34.349		0.13	25.365	0.066	1508.	1.6
28	27.8	15.488	34.354		0.13	25.367	0.070	1508.	1.7
30	30.0	15.499	34.360		0.13	25.369	0.076	1508.	1.7
32	32.1	15.518	34.363		0.13	25.367	0.082	1508.	1.7
34	33.9	15.548	34.384		0.14	25.377	0.086	1508.	1.8
36	36.0	15.614	34.400		0.14	25.375	0.092	1508.	1.8
38	38.1	15.671	34.422		0.14	25.378	0.097	1509.	1.8
40	39.9	15.695	34.430		0.14	25.379	0.102	1509.	1.7
42	42.1	15.730	34.441		0.14	25.380	0.108	1509.	1.4
44	43.9	15.730	34.447		0.14	25.384	0.112	1509.	1.4
46	46.0	15.798	34.467		0.14	25.384	0.118	1509.	1.2
48	48.2	15.822	34.474		0.14	25.384	0.124	1509.	1.2
50	49.9	15.823	34.474		0.15	25.384	0.128	1509.	1.0
52	52.0	15.825	34.476		0.14	25.385	0.133	1509.	1.0
54	54.1	15.866	34.489		0.14	25.386	0.139	1510.	1.1
55	55.9	15.872	34.492		0.14	25.387	0.144	1510.	1.2
58	58.0	15.897	34.498		0.14	25.386	0.149	1510.	1.2
60	60.1	15.918	34.509		0.14	25.389	0.154	1510.	1.2
61	62.0	15.966	34.524		0.14	25.390	0.159	1510.	1.3
63	64.0	15.970	34.525		0.14	25.390	0.165	1510.	1.3
65	66.0	15.969	34.525		0.14	25.390	0.170	1510.	1.3
67	67.9	16.012	34.541		0.14	25.393	0.175	1510.	1.2
69	70.0	16.022	34.546		0.15	25.394	0.180	1510.	1.4
71	71.9	16.022	34.546		0.14	25.394	0.185	1511.	1.5
74	74.1	16.025	34.548		0.15	25.395	0.191	1511.	1.6
75	75.8	16.030	34.551		0.15	25.396	0.195	1511.	1.7
77	78.0	16.036	34.557		0.15	25.399	0.201	1511.	2.0
79	80.1	16.034	34.558		0.15	25.401	0.206	1511.	2.4
81	81.9	16.040	34.562		0.15	25.403	0.211	1511.	3.4
83	84.0	16.061	34.575		0.16	25.407	0.216	1511.	4.2
85	86.0	16.079	34.590		0.17	25.415	0.221	1511.	5.0
87	88.0	16.082	34.608		0.21	25.428	0.227	1511.	5.7
89	90.1	16.056	34.658		0.32	25.473	0.232	1511.	6.4
91	91.2	16.042	34.678		0.37	25.491	0.235	1511.	6.9
91	92.0	16.026	34.699		0.40	25.511	0.237	1511.	7.3
92	93.0	16.009	34.724		0.42	25.534	0.239	1511.	7.4
93	94.0	15.989	34.736		0.45	25.548	0.242	1511.	7.5

SHIP	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH
OC	159	41	19 NOV 1984	2313	40°19.0'N	70°55.0'W	103

DEPTH m	PRESS dbar	TEMP °C	SALIN psu	OXY ml/l	ATN m^{-1}	SIGT gm/cm^3	DYHT A $10m^2/s^2$	S SPD m/s	N cph
94	95.1	15.978	34.746		0.50	25.558	0.244	1511.	7.6
95	96.0	15.964	34.755		0.57	25.569	0.247	1511.	7.7
96	97.0	15.933	34.771		0.62	25.587	0.249	1511.	7.7
97	98.0	15.861	34.804		0.66	25.629	0.252	1511.	7.7
98	99.2	15.830	34.817		0.64	25.646	0.254	1511.	7.7
99	99.6	15.807	34.826		0.66	25.659	0.255	1511.	7.7

SHIP	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH
OC	159	42	20 NOV 1984	0200	40°30.2'N	71°00.8'W	79

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	14.062	33.707		0.17	25.176	0.000	1502.	-0.9
2	1.9	14.097	33.712		0.12	25.173	0.003	1502.	-0.9
5	4.9	14.120	33.707		0.36	25.164	0.012	1502.	-0.9
6	6.1	14.104	33.710		0.25	25.169	0.015	1502.	-0.9
8	8.1	14.094	33.711		0.12	25.172	0.020	1502.	-0.9
10	9.9	14.083	33.710		0.11	25.173	0.025	1502.	0.3
12	11.9	14.095	33.708		0.11	25.170	0.031	1502.	1.4
14	13.9	14.111	33.711		0.11	25.168	0.037	1503.	1.5
16	15.8	14.117	33.712		0.11	25.168	0.042	1503.	2.0
18	17.9	14.177	33.732		0.11	25.171	0.048	1503.	3.2
20	19.9	14.198	33.752		0.11	25.182	0.053	1503.	4.5
22	22.0	14.228	33.761		0.12	25.183	0.059	1503.	5.4
24	24.1	14.430	33.834		0.11	25.196	0.065	1504.	6.0
26	26.0	14.789	33.988		0.10	25.239	0.070	1505.	6.3
28	27.8	15.210	34.177		0.11	25.293	0.075	1507.	6.2
30	30.0	15.631	34.337		0.13	25.322	0.081	1508.	5.9
32	32.1	15.755	34.393		0.16	25.337	0.086	1509.	5.2
34	33.9	15.802	34.412		0.17	25.341	0.091	1509.	4.1
36	35.9	15.838	34.423		0.18	25.342	0.096	1509.	2.9
38	38.0	15.895	34.437		0.19	25.339	0.102	1509.	2.1
40	40.0	15.963	34.466		0.20	25.346	0.107	1510.	1.7
42	41.9	15.975	34.471		0.20	25.347	0.112	1510.	1.5
44	44.0	15.961	34.469		0.21	25.349	0.118	1510.	1.5
46	46.0	15.941	34.465		0.22	25.350	0.123	1510.	1.4
48	48.1	15.902	34.454		0.21	25.351	0.129	1510.	1.1
49	49.9	15.861	34.440		0.19	25.349	0.133	1510.	1.1
52	52.2	15.833	34.435		0.16	25.352	0.139	1509.	1.0
54	54.1	15.824	34.432		0.16	25.352	0.144	1509.	1.0
56	56.1	15.833	34.435		0.16	25.352	0.150	1510.	1.1
58	58.1	15.836	34.438		0.16	25.353	0.155	1510.	1.2
60	60.1	15.818	34.434		0.17	25.354	0.160	1510.	1.1
61	61.3	15.810	34.431		0.17	25.354	0.163	1510.	1.1
62	62.0	15.816	34.434		0.20	25.355	0.165	1510.	1.0
62	63.0	15.814	34.434		0.19	25.356	0.168	1510.	0.6
63	63.9	15.810	34.432		0.18	25.355	0.170	1510.	0.5
65	65.0	15.808	34.432		0.18	25.355	0.173	1510.	0.5
66	66.1	15.808	34.430		0.19	25.354	0.176	1510.	0.3
67	67.0	15.816	34.433		0.21	25.354	0.178	1510.	-0.3
67	68.0	15.820	34.436		0.24	25.355	0.181	1510.	0.4
69	69.1	15.818	34.435		0.23	25.355	0.184	1510.	0.4
69	70.0	15.821	34.435		0.23	25.355	0.186	1510.	0.5
70	71.0	15.819	34.434		0.24	25.354	0.189	1510.	0.2
71	72.0	15.817	34.434		0.25	25.355	0.192	1510.	-0.5
72	73.0	15.811	34.432		0.28	25.354	0.194	1510.	-0.5
73	74.0	15.809	34.431		0.29	25.354	0.197	1510.	-0.5
74	75.0	15.806	34.431		0.29	25.355	0.199	1510.	-0.5
75	75.6	15.803	34.429		0.40	25.354	0.201	1510.	-0.5

SHIP	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH
OC	159	43	20 NOV 1984	0325	40°36.8'N	70°55.4'W	71

DEPTH m	PRESS dbar	TEMP °C	SALIN psu	OXY ml/l	ATN m^{-1}	SIGT gm/cm^3	DYHT A $10m^2/s^2$	S SPD m/s	N cph
5	4.8	13.829	33.400		0.10	24.987	0.000	1501.	0.1
6	6.1	13.831	33.401		0.10	24.987	0.004	1501.	0.1
8	8.2	13.831	33.401		0.10	24.987	0.010	1501.	0.1
10	10.2	13.832	33.401		0.10	24.987	0.016	1501.	0.1
12	12.0	13.831	33.400		0.10	24.987	0.021	1501.	0.1
14	14.0	13.831	33.400		0.10	24.987	0.027	1501.	0.7
16	16.0	13.827	33.399		0.10	24.987	0.033	1501.	0.7
18	18.1	13.829	33.400		0.11	24.987	0.039	1501.	0.8
20	19.7	13.833	33.401		0.10	24.987	0.044	1501.	0.9
22	21.9	13.835	33.407		0.10	24.991	0.051	1501.	1.0
24	24.0	13.845	33.405		0.10	24.988	0.057	1501.	1.0
26	25.9	13.866	33.413		0.10	24.989	0.063	1502.	0.8
28	27.9	13.886	33.420		0.10	24.991	0.068	1502.	0.6
30	30.0	13.872	33.417		0.10	24.991	0.075	1502.	-0.8
32	32.2	13.863	33.413		0.10	24.990	0.081	1502.	0.2
34	34.0	13.863	33.411		0.10	24.988	0.086	1502.	1.0
36	35.9	13.836	33.406		0.10	24.990	0.092	1502.	1.4
38	38.1	13.884	33.409		0.10	24.982	0.099	1502.	1.7
40	40.2	13.967	33.446		0.10	24.994	0.105	1502.	1.4
42	42.0	14.006	33.465		0.10	25.001	0.110	1502.	1.7
43	43.8	14.001	33.464		0.10	25.001	0.116	1502.	1.7
46	46.0	13.994	33.463		0.10	25.001	0.122	1502.	2.6
48	48.2	14.050	33.463		0.10	24.990	0.128	1503.	3.0
50	50.1	14.213	33.524		0.10	25.003	0.134	1503.	4.8
52	51.9	14.426	33.584		0.11	25.004	0.140	1504.	5.9
53	53.9	14.993	33.786		0.23	25.038	0.145	1506.	6.6
55	55.9	16.058	34.109		0.40	25.050	0.151	1510.	7.0
57	57.9	16.332	34.340		0.47	25.165	0.157	1511.	7.1
60	60.1	16.369	34.364		0.48	25.175	0.163	1511.	7.0
61	61.3	16.379	34.368		0.48	25.175	0.166	1511.	6.4
62	62.1	16.389	34.369		0.48	25.174	0.169	1511.	5.3
62	63.0	16.401	34.377		0.49	25.177	0.171	1511.	1.7
64	64.0	16.403	34.375		0.49	25.175	0.174	1511.	1.7
64	64.9	16.423	34.380		0.49	25.175	0.177	1511.	1.7
66	66.0	16.430	34.384		0.50	25.176	0.180	1511.	1.7
66	66.7	16.394	34.373		0.48	25.176	0.182	1511.	1.7

SHIP	CRUISE	STATION	DATE	EST	LATITUDE	LONGITUDE	DEPTH
OC	159	44	20 NOV 1984	0500	40°50.1'N	70°55.3'W	55

DEPTH m	PRESS dbar	TEMP °C	SALIN psu	OXY ml/l	ATN m^{-1}	SIGT gm/cm^3	DYHT A $10m^2/s^2$	S SPD m/s	N cph
1	0.7	12.919	32.748		0.38	24.665	0.000	1497.	-1.1
2	2.0	12.932	32.748		0.41	24.663	0.004	1497.	-1.1
4	3.9	12.939	32.748		0.39	24.662	0.010	1497.	-1.1
6	6.0	12.958	32.750		0.38	24.659	0.017	1497.	-1.1
8	8.0	12.962	32.750		0.38	24.659	0.024	1498.	-1.1
10	10.1	12.959	32.750		0.37	24.659	0.031	1498.	-0.9
12	12.0	12.956	32.749		0.38	24.659	0.037	1498.	-0.7
14	13.9	12.953	32.748		0.38	24.659	0.043	1498.	-0.4
16	16.0	12.953	32.747		0.39	24.658	0.050	1498.	-0.3
18	18.0	12.959	32.748		0.38	24.657	0.057	1498.	0.3
20	20.0	12.962	32.749		0.38	24.658	0.063	1498.	0.7
22	22.0	12.964	32.750		0.39	24.658	0.070	1498.	0.6
24	24.1	12.966	32.751		0.38	24.658	0.076	1498.	0.7
26	25.9	12.965	32.752		0.38	24.660	0.083	1498.	0.7
28	28.1	12.939	32.748		0.39	24.661	0.090	1498.	0.6
30	29.9	12.936	32.743		0.38	24.658	0.096	1498.	0.5
32	32.0	12.937	32.745		0.38	24.659	0.102	1498.	0.7
34	34.0	12.947	32.748		0.38	24.660	0.109	1498.	0.8
36	36.0	12.965	32.752		0.39	24.659	0.115	1498.	0.8
38	38.1	12.990	32.759		0.38	24.659	0.122	1498.	1.7
40	40.0	13.004	32.767		0.38	24.663	0.129	1498.	4.4
41	41.3	13.008	32.766		0.39	24.662	0.133	1498.	7.9
42	42.0	13.031	32.771		0.39	24.661	0.135	1498.	10.8
43	43.1	13.401	32.890		0.37	24.680	0.139	1500.	14.0
44	43.9	14.570	33.379		0.39	24.815	0.141	1504.	15.9
45	45.0	15.259	33.808		0.39	24.997	0.145	1507.	16.2
46	46.1	15.570	33.972		0.41	25.054	0.148	1508.	15.5
47	47.0	15.775	34.200		0.41	25.184	0.151	1509.	14.0
48	48.0	15.788	34.206		0.42	25.186	0.153	1509.	14.0
49	49.0	15.800	34.210		0.45	25.187	0.156	1509.	14.0
50	50.0	15.804	34.211		0.46	25.186	0.159	1509.	14.0
50	50.8	15.807	34.213		0.48	25.187	0.161	1509.	14.0

Appendix II

Manufacturers' specifications for instruments used on R/V OCEANUS Cruise 159. 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	±0.005°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

Appendix III Methods for nutrient analysis

Automated methods for nutrients were based on Wood, Armstrong and Richards (1967) for nitrate, Bendschneider and Robinson (1952) for nitrite, Murphy and Riley (1962) for phosphate, Koroleff (1976) for silicate, Soloranzo (1969) for ammonia, and described in Technicon Corp. Industrial method papers (1973). During analytical work with water samples some minor and major method changes have been made.

References

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Solorazano, L., 1969, Determination of ammonia in natural waters by the phenolhypochtonite method: Limnology and Oceanography, v. 14, p. 799-801.

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Wood, E. D., Armstrong, F. A. J. and Richards, F. A., 1967, Determination of nitrate in seaa water by cadium-copper reduction to nitrite: Journal of Marine Biology Association, U. K., v. 47, p. 23-31.

Appendix IV.- NBIS CTD 9-track tape format

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

Data records

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

Header records

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

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

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