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CURRENT VELOCITY AND HYDROGRAPHIC OBSERVATIONS IN THE SOUTHWESTERN NORTH ATLANTIC OCEAN: SUBTROPICAL ATLANTIC CLIMATE STUDIES (STACS), 1988

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I. INTRODUCTION

The primary objectives of the STACS program are to increase our understanding of the dynamics of the North Atlantic circulation and the role of ocean circulation in global climate, to develop the capability to monitor the climatically important processes, and to provide data needed in the development of the coupled ocean-atmosphere general circulation models to be used for global climate prediction. In particular, the mechanisms by which the ocean transports heat to balance the net radiation deficit at northerly latitudes are being studied.

The initial objectives of STACS (Molinari et al., 1985) were directed at the Florida Current, a flow which makes significant contribution to heat flux. After an intensive two-year observing program, we have the capability to monitor Florida Current transport without extensive ship-board observations. Data collected during this period are listed in Williams et al. (1983), Leaman and Vertes (1983), Vertes and Leaman (1984), and Ratnaswamy et al. (1985). STACS efforts during 1984-86 were directed toward studying the relationship of western boundary currents along the Antillean Archipelago and in the Caribbean Sea to the dynamics of the North Atlantic subtropical gyre and on meridional heat flux, while continuing the monitoring effort in the Florida Current at 27°N. Data collected during these cruises are given in Wilburn et al. (1987a,b). STACS efforts during 1987 continued the observational studies of western boundary currents, extending the study area southward to northern Brazil (4°N) (Figure 1) in order to examine the contribution of cross-equatorial boundary currents to the North Atlantic mass and heat fluxes (Wilburn et al., 1988).

During the period covered by this report, 1988, STACS observational efforts were concentrated on the region between Barbados (13°N) and northern Brazil (4°N), with the emphasis on examining the mean and variability of cross-equatorial fluxes of mass and heat within the western boundary current systems. In addition, the monitoring effort along the transect east of Abaco, the Bahamas (26.5°N) continued. Figures 2-4 show station locations for the March, July, and September 1988 cruises respectively. XBT data were generally collected along the entire cruise track, with CTD-O_2 and Pegasus stations taken where indicated.

II. DATA COLLECTION AND ANALYSIS

Data from STACS cruises conducted on the NOAA Ships WHITING and MT. MITCHELL during three cruises--March, July, and September 1988--are contained in this report. Table 1 shows the type of data collected on each cruise. Techniques used to reduce the Pegasus, CTD, and XBT data to final form are described below.

A. Pegasus Current Profiler

The Pegasus instrument is an acoustically-tracked, free-falling profiler of horizontal current components (Spain et al., 1981). A schematic of the Pegasus sy$tem is shown in Figure 5. The Pegasus instrument used by AOML consists of a hollow cylindrical metal tube with the electronics package sealed within. A flotation collar attached to the exterior of the cylinder provides the instrument buoyancy. Pegasus houses a transducer/receiver, a thermistor and a pressure sensor. When the Pegasus is in the water, its transducer interrogates two fixed transponders on the ocean bottom at a

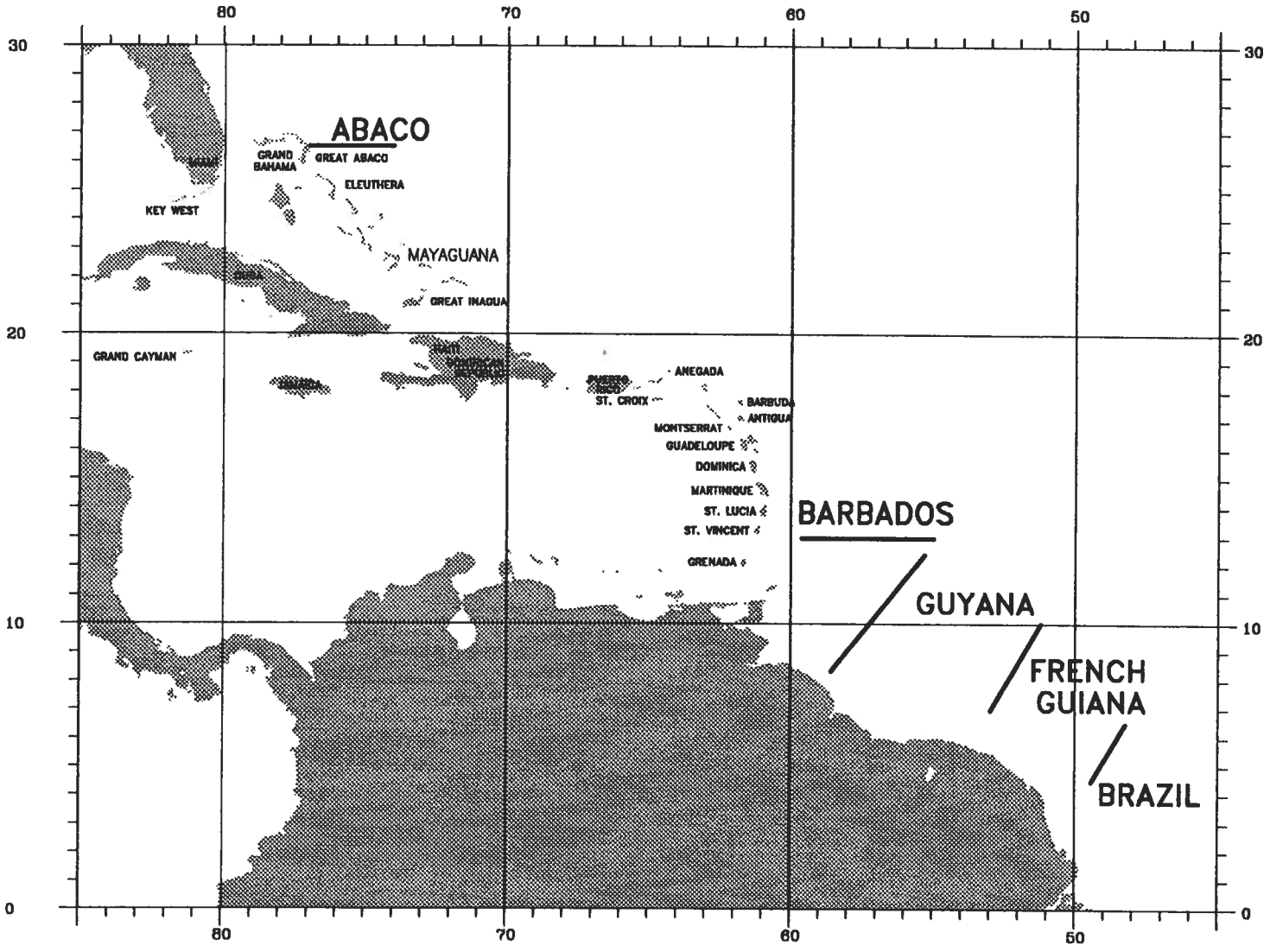

Figure 1: Map of the STACS study area.

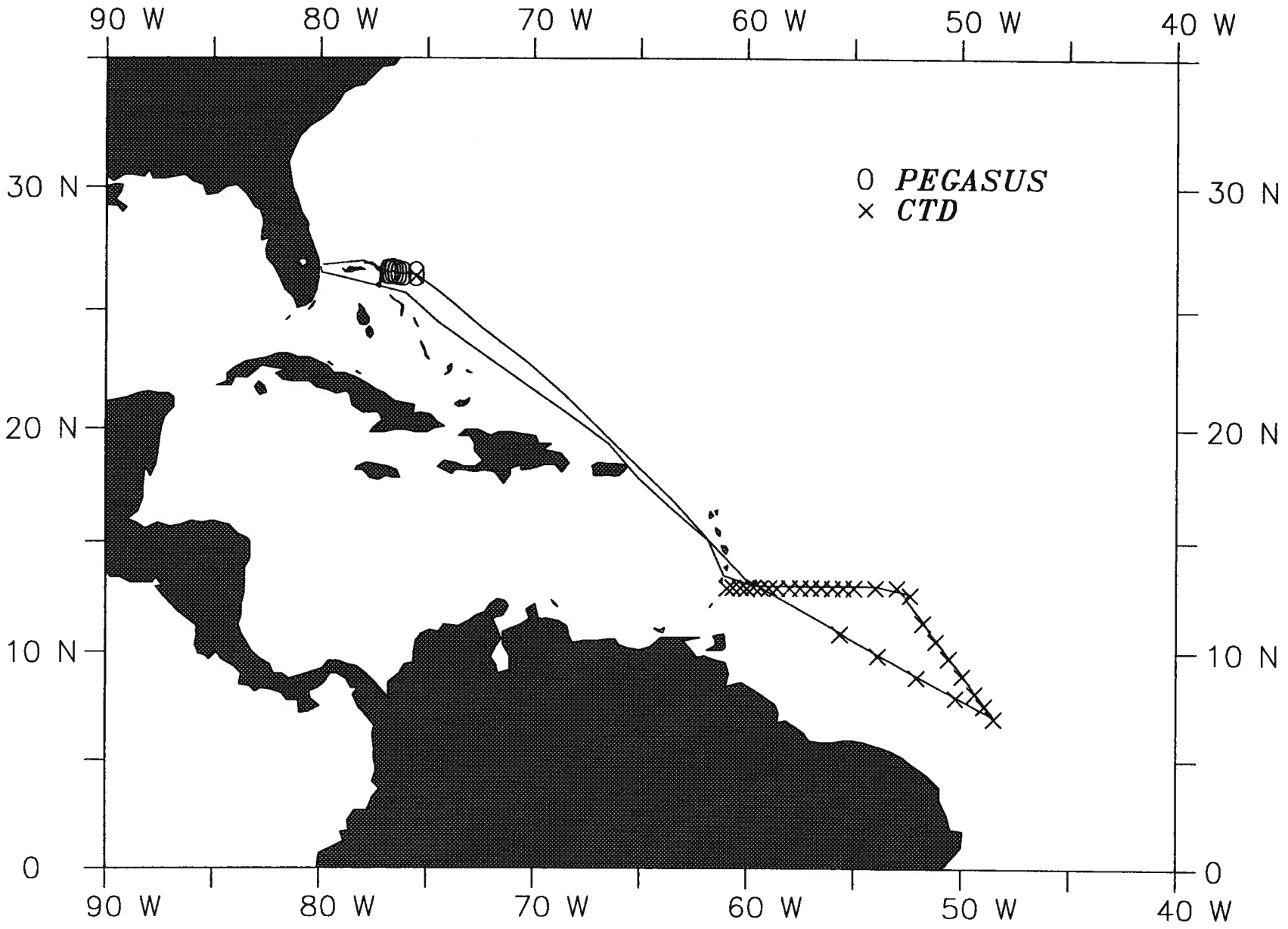

FIGURE 2. STACS Cruise Track for March 1988 showing CTD & Pegasus sampling stations.

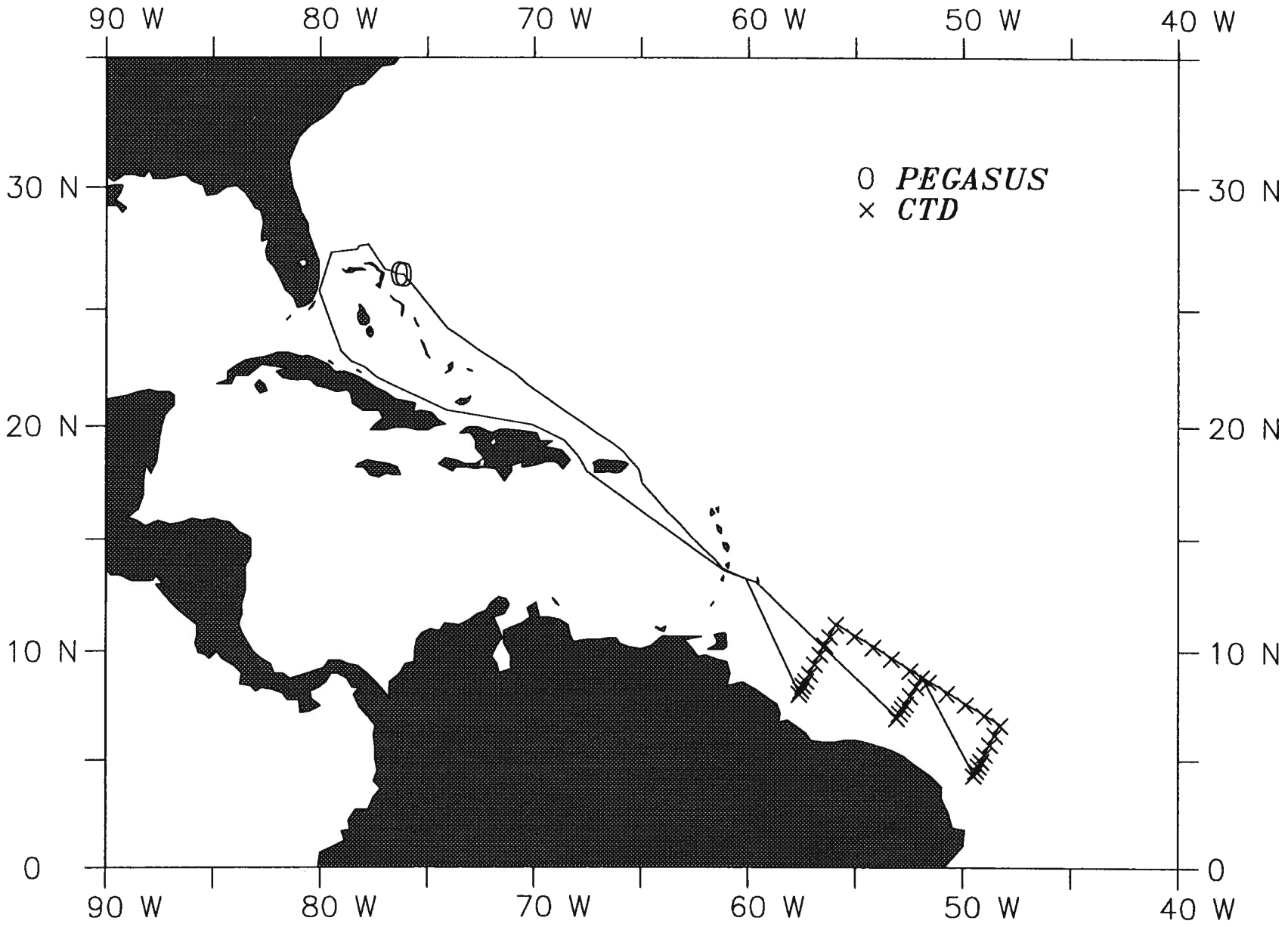

FIGURE 3. STACS Cruise Track for June 1988 showing CTD & Pegasus sampling stations.

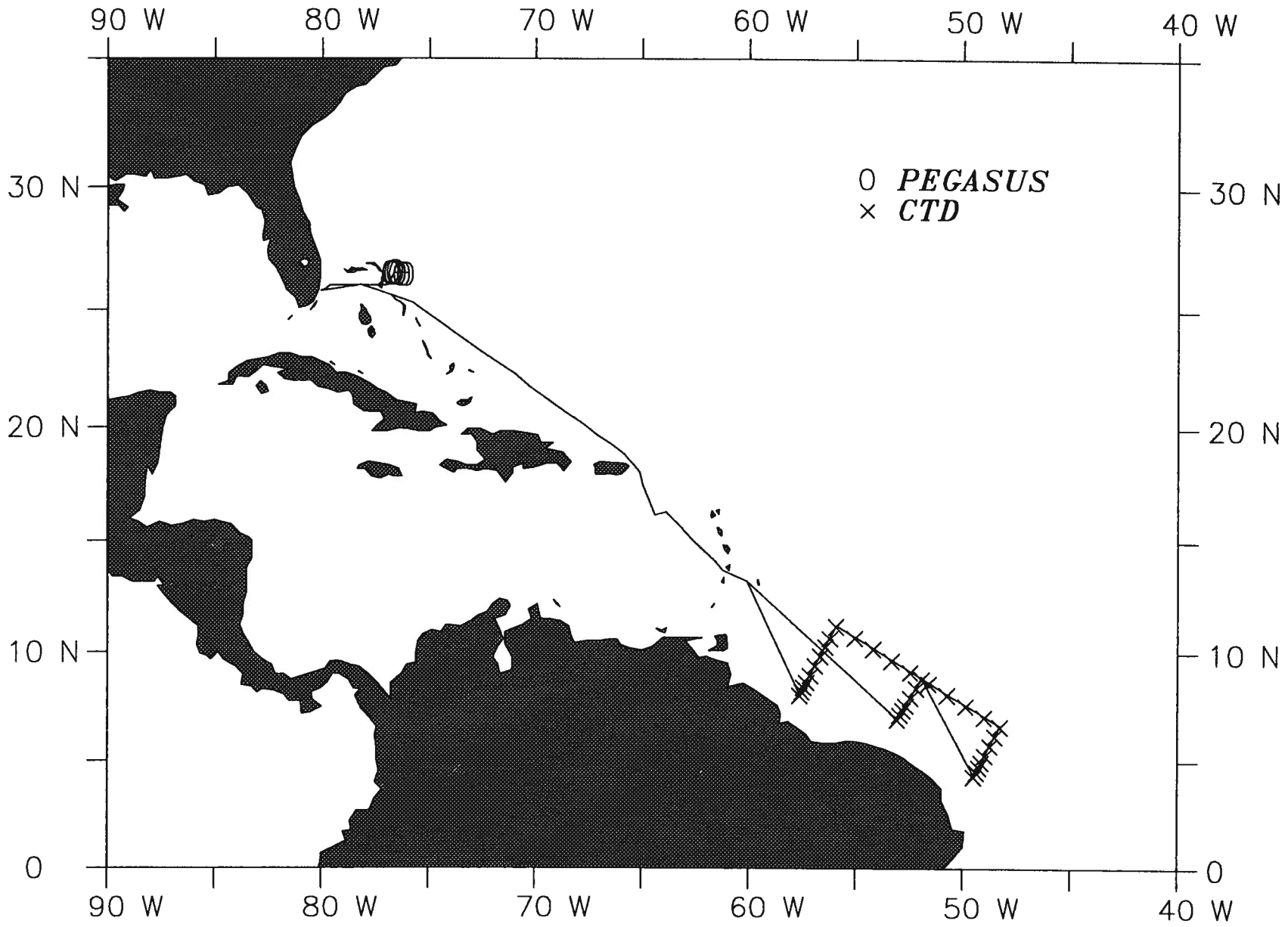

FIGURE 4. STACS Cruise Track for SEPTEMBER 1988 showing CTD & Pegasus sampling stations.

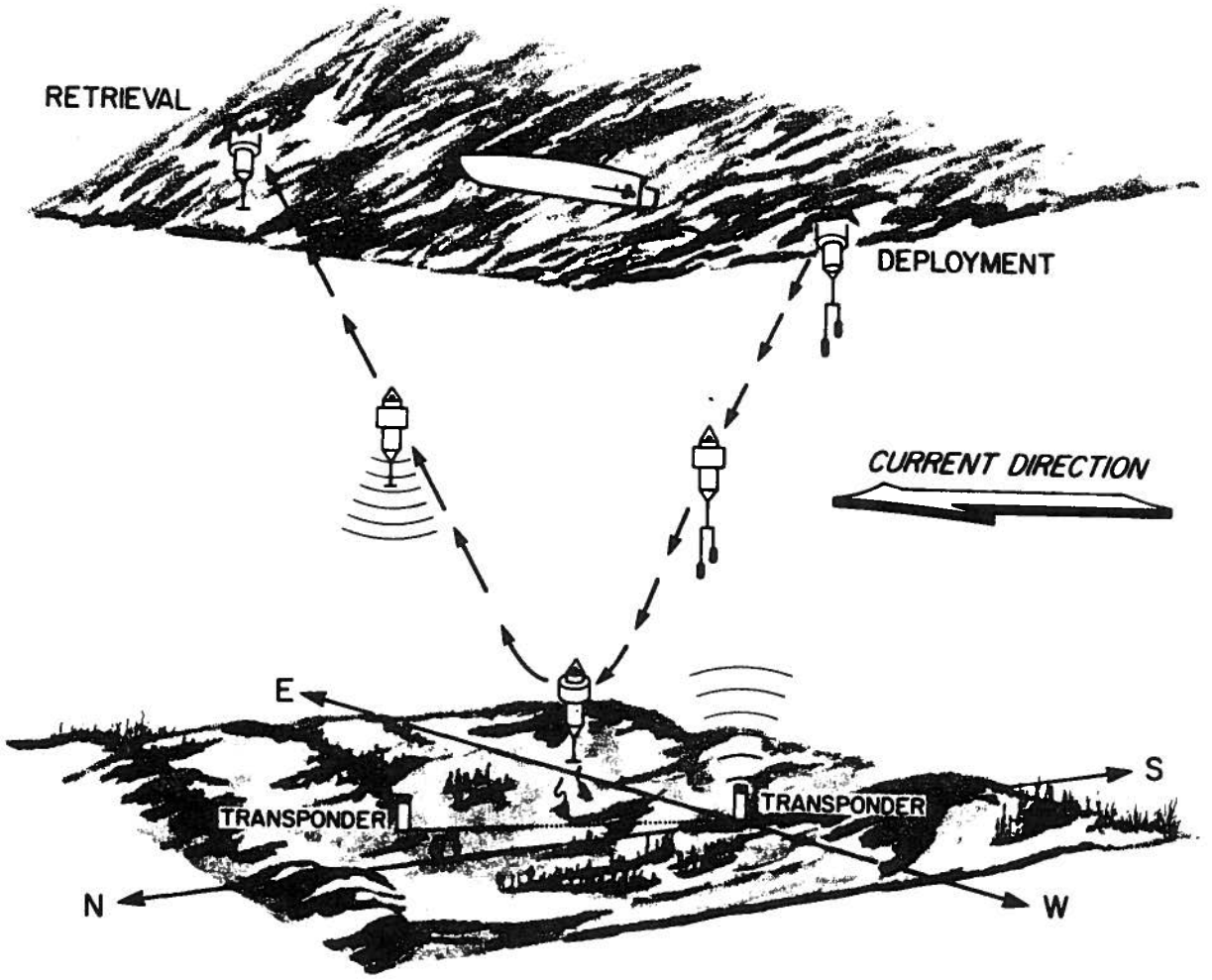

Figure 5: Schematic of the Pegasus current profiler.

Table 1. Types of Data Collected by Cruise.

Cruise	Vessel	Dates	Pegasus	CTD	XBT
February 1988 (WH-88-01-STACS)	WHITING	2/16-3/27/88	6	30	61
June 1988 (WH-88-02-STACS)	WHITING	6/16-7/25/88	2	33	43
September 1988 (MI-88-01-STACS)	MT. MITCHELL	9/12-10/9/88	6	29	149

frequency of 10 KHz at an interval of eight or sixteen seconds. Each transponder responds at a different frequency. The Pegasus internally records the acoustic travel times from the transponders, along with temperature and pressure. Transponder frequency pairs are alternated between stations in order to avoid interference from adjacent stations.

The instrument is weighted at the beginning of the drop and falls at a rate between 20-50 cm/sec. This rate may be adjusted by adding or removing weights. External weights are released by a bottom trip mechanism when the weights touch the ocean floor or by a pressure release when the Pegasus reaches a predetermined depth. The instrument ascends at approximately the same rate as it descends.

Each Pegasus station is defined by a unique geometry (see Table 2). A mean sound velocity profile for each station is used to convert the acoustic travel times from the transponders to the instrument into ranges in meters. The baseline becomes the base of a triangle which is projected onto the bottom. The X and Y coordinates of the instrument at each pressure can then be determined.

Following a Pegasus cast the contents of the instrument's solid state memory are transferred to a Hewlett Packard 85 computer for conversion to decimal values and storage on flexible diskettes. The conversion of raw data to a velocity profile is done on an HP-86 in three steps: editing, calibration and velocity computations. Following is a brief description of each step.

1. Editing

Two files are created for each Pegasus cast: an ASCII character header file on magnetic tape containing cast information and a multi-record data file on magnetic disk. Each record contains decimal values of the original Pegasus memory address, corresponding pressure and temperature sensor output counts and two travel times significant to 10^{-4} second. HP-86 BASIC programs allow graphic display and printed listings of the data for preliminary evaluation of data quality.

Errors can be introduced into the raw data due to instrument hardware errors and into the travel times by acoustic propagation irregularities such as the detection of reflected instead of direct path signals. Erroneous points are hand edited from the record and replaced by points estimated by a low order polynomial fit.

2. Calibration

Prior to each research cruise the Pegasus pressure sensor is calibrated to produce second order polynomial fits of pressure counts versus pressure in decibars (db). Standard deviations from the fits over the working range of the sensors are generally on the order of 1 db. After the raw data has been edited the pressure counts are converted to decibars. Pressure is further smoothed with a five point running mean. Cast limits (surface/bottom/surface) are recorded in the header file and the data are split into downcast and upcast files containing two travel times and pressure (db).

Table 2. Summary of Pegasus Station Geometry off Abaco Island.

Station	Transponder Parameters				Baseline Length (m)
	Latitude (N)	Longitude (W)	Frequency (KHz)	Depth (m)	
15	26°30.83′	76°19.01′	12.0		
	26°31.74′	76°21.55′	13.0	4810	4296
16	26°32.86′	76°29.98′	13.0		
	26°32.86′	76°32.65′	11.5	4825	4410
17	26°35.48′	76°39.30′	12.5		
	26°33.72′	76°39.31	12.0	4050	3937
18	26°32.56′	76°45.29′	13.0		
	26°30.53′	76°44.88′	11.5	3600	3570
19	26°33.07′	76°51.16′	12.0		
	26°32.22′	76°50.92′	11.5	800	1311
34	26°29.90′	76°07.22′	12.5	4810	4197
	26°29.71′	76°09.61′	12.0		
35	26°29.31′	75°32.34′	12.0	4610	4038
	26°29.44′	75°29.94′	12.5		
36	26°30.20′	74°32.97′	12.0	4460	1665
	26°30.12′	74°30.31′	12.5		

3. Velocity Calculation

Given the transponder depths, baseline length, pressure and the travel times, the Pegasus position can be determined. Each station has an associated sound velocity profile used to calculate harmonic mean velocity and thus convert acoustic travel times to distance for input into the position equations. The resulting profiles of X and Y position (in unrotated baseline coordinates) versus depth are smoothed with a seven point convolution. The resulting U and V velocity components are then rotated into a true geographic coordinate system. Each cast produces two profiles: one represents the downcast portion and the other the upcast. Only one profile from each cast is chosen based on a subjective comparison of the up and down profiles and these data for each cruise are presented by increasing cast numbers in Appendix A. The positions represent deployment locations rather than the transponder positions listed in Table 1.

B. CTD Data

1. System Description

The Neil Brown Instrument Mark III CTD system used in STACS includes pressure, temperature, salinity and oxygen sensors. The oxygen data will be described in a future report.

The instrument scans at a rate of 30 scans per second. The descent rate is approximately 30 meters per minute to a depth of 200 meters then increases to 60 meters per minute for the remainder of the cast. CTD values are averaged in one decibar increments. Appendix B contains graphic representations of CTD profiles arranged by cruise and cast number. CTD values are listed at selected depths.

2. Calibration

Laboratory calibrations are used for the CTD pressure and temperature sensors. Reversing thermometer data are in agreement with the CTD temperatures to within $\pm$ .01°C. CTD pressures are assumed to be accurate to within $\pm$ 6.5 db. Bottle salinities are collected using a rosette sampler lowered with the CTD, with the final values determined using a Guildline Autosal unit. The bottle salinities are used for calibration of the raw CTD data using the methodology described below.

a. The bottle salinities are edited for obvious bad values, i.e., outliers, by examination of the residual differences between bottle and CTD salinities over the entire water column and by means of graphical comparisons with previous regional STACS and TTO (Williams, 1986 a&b) temperature/salinity relationships in the deep water.

b. The uncalibrated CTD salinity vs. pressure profiles are examined for conductivity sensor changes and/or drift by examination of the time history of the residual differences between the edited bottle values and the CTD salinities, and divided into calibration subgroups if necessary. An iterative least squares regression is run on the residual (bottle salinity minus CTD salinity) vs. pressure data sets for each subgroup, and linear or polynomial fits are obtained over appropriate portions of the water column.

c. The uncalibrated CTD salinity profiles are corrected using the results of the regressions, and the TS correlation is again compared with the historical data set as a final quality check. The calibrated CTD salinity and temperature data are despiked, and a final data set subsampled to 2 db spacing is produced.

Discussions of the bottle salinity quality and CTD performance for the individual cruises, and tabulations of the respective calibration corrections, follow.

March 1988:

Due to limitations associated with the winch system onboard the R/V WHITING, most of the CTD casts taken during the March 1988 cruise were limited to 3000 m depth. The bottle salinity data were also not up to satisfactory quality standards during this cruise due to problems with deck and laboratory facilities and as a result the first 7 out of 30 casts did not produce usable bottle salinities. Casts 8 through 30 had usable salinities, but with fairly high scatter, requiring 20% of the values to be discarded during the iterative least-squares analysis of the bottle-CTD residual values.

After discarding these values, the remaining 80% of the data showed a consistent correction (where dS is added to the uncalibrated CTD salinity values) of dS = $-.001 \pm .003$ ppt, with no significant depth dependence, as shown in Figure 6a. (In other words, the raw CTD data were nearly correct without any calibration.) A -.001 ppt correction was applied uniformly to casts 1 through 30, and comparisons with the historical regional TS correlation produced satisfactory results.

July 1988:

The maximum depth of the CTD casts taken during the July 1988 cruise was 2600 m, due again to limitations associated with the winch system. The bottle salinity data were better during July 1988 than March 1988, with 92 to 96% of the values used for the least squares fit to the CTD values over the first 20 of the total of 33 CTD casts. However, the CTD performance was not as good as during the March 1988 cruise, exhibiting a -.005 ppt linear drift over time from the tenth cast to the end of the cruise. In addition, the first 20 casts showed a depth dependence in the upper 500 to 1000 m which required the use of a linear fit in the upper portion of the water column, and a constant correction in the deeper water. The changeover depth (1000 to 1500 m) was selected such that the two calibration fits agreed to within .001 ppt. An example of the analysis is shown in Figure 6b. The various subgroup corrections are tabulated below, with the percentage of the bottle values used in the analysis. Comparisons with the historical regional TS correlation in the deep water confirmed that the final calibrated data were satisfactory despite the CTD drift problem.

Casts	Calibration Correction
1-10	< 1000 m: dS = .003 ppt + $4.36e^{-6}$ * pressure
	> 1000 m: dS = $.007 \pm .002$ ppt (92%)
11-15	< 1500 m: dS = .002 ppt + $2.16e^{-6}$ * pressure
	> 1500 m: dS = $.005 \pm .002$ ppt (94%)

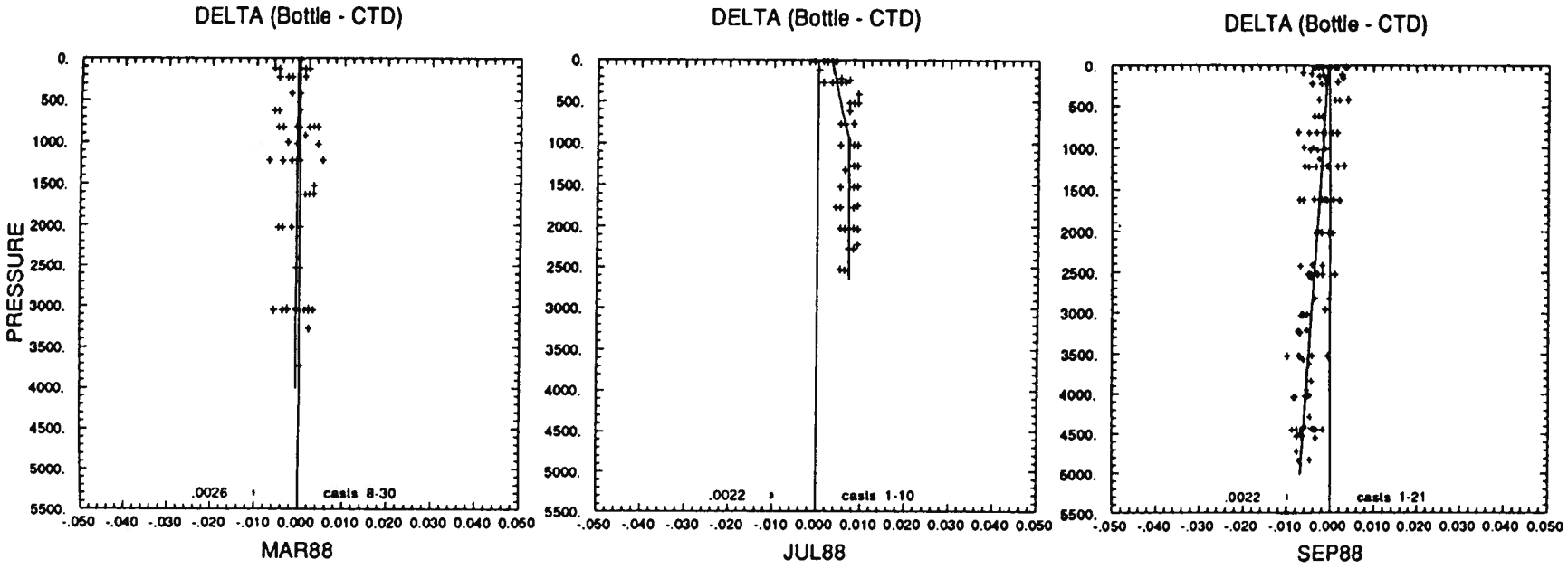

Figure 6. Calibration regression analysis for the March (4a), July (4b), and September (4c) 1988 cruises. Bottle salinity minus uncalibrated CTD salinity values in ppt are shown as +'s vs. pressure in db, and the various linear fits which were used for the calibration are shown as the solid curves. Standard deviation values are indicated at the lower left of each panel.

Casts	Calibration Correction
16-20	< 1000 m: dS = .002 ppt + $2.16e^{-6}$ * pressure > 1000 m: dS = .004 ± .002 ppt (96%)
21-26	> 0 m: dS = .003 ± .003 ppt (80%)
27-33	> 0 m: dS = .002 ± .002 ppt (65%)

September 1988:

The bottle salinity data quality and CTD performance were both improved during most of this cruise over the two previous 1988 cruises, with one simple linear calibration fit used for the first 21 out of 29 casts. During the last 8 casts of the cruise the Autosal malfunctioned, and the bottle salinity data were not usable. However, these 8 casts were taken east of Abaco, the Bahamas, and extended to the bottom (> 5000 m) where the historical TS relationship is very predictable. Therefore, the historical values were used in the deep water, with the same linear slope as casts 1-21 applied. The difference between the two calibrations is only -.003 ppt, but this is significant in the deep water. The calibration fits are tabulated below, with the percentage of the bottle values used in the computation, and the analysis from casts 1-21 is shown in Figure 6c. Comparison with the historical regional TS correlation confirmed that the calibration was satisfactory.

Casts	Calibration Correction
1-21	dS = -.000 ppt - $1.35e^{-6}$ * pressure ± .002 ppt (94%)
22-29	dS = -.003 ppt - $1.35e^{-6}$ * pressure (historical TS)

C. XBT Data

T-4, T-5, T-6 and T-7 expendable bathythermograph (XBT) probes were used during all of the cruises covered in this data report. Appendix C presents XBT data by cruises and cast number.

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IV. ACKNOWLEDGMENTS

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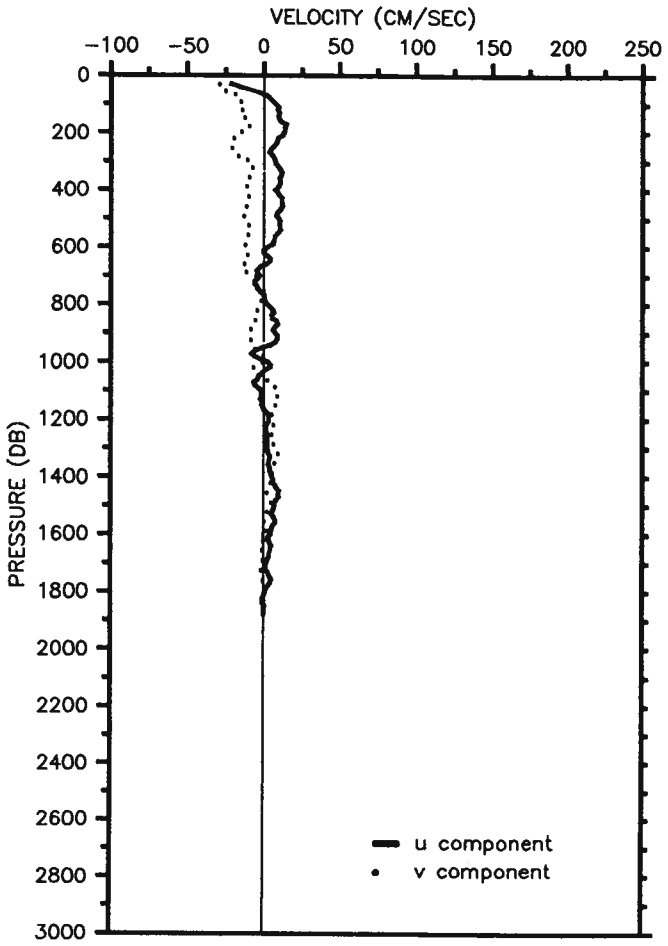
APPENDIX A: PEGASUS DATA

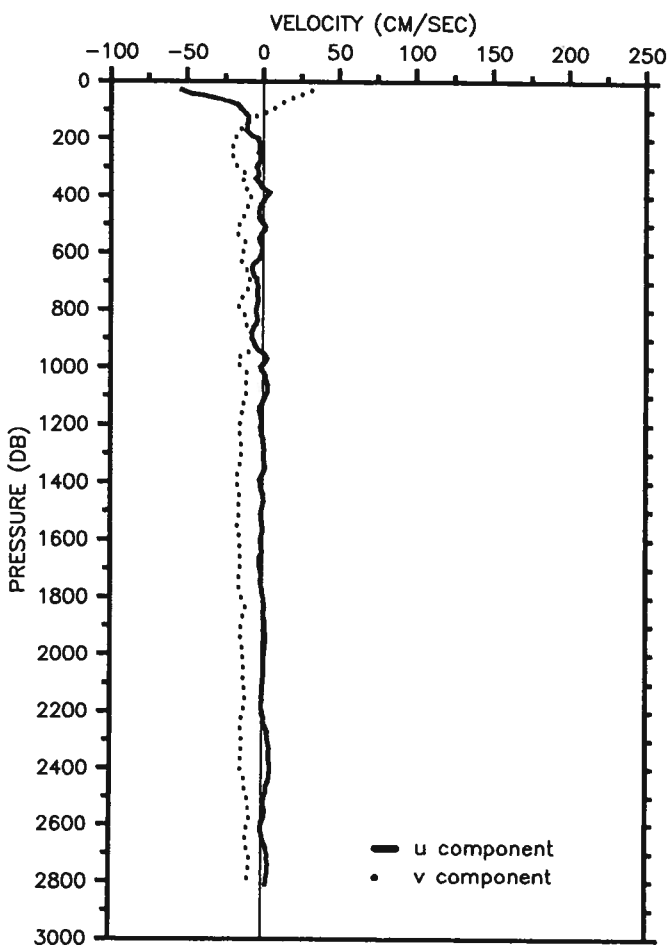
Casts are presented by cruise and increasing cast number. The cruise number and vessel, Pegasus cast and station number, Julian day and time, and position are shown at the top of each plot. "U" represents the east component of velocity. "V" represents the north component. Casts where there are no data values given for the U and V components indicate that the transponders signals were not being received by the Pegasus instrument at the given depth.

WHI–STACS30–88 PEGASUS 1 STN 35
R/V WHITING JDAY 81 TIME 0417Z
Latitude 26.453 N Longitude 075.534 W



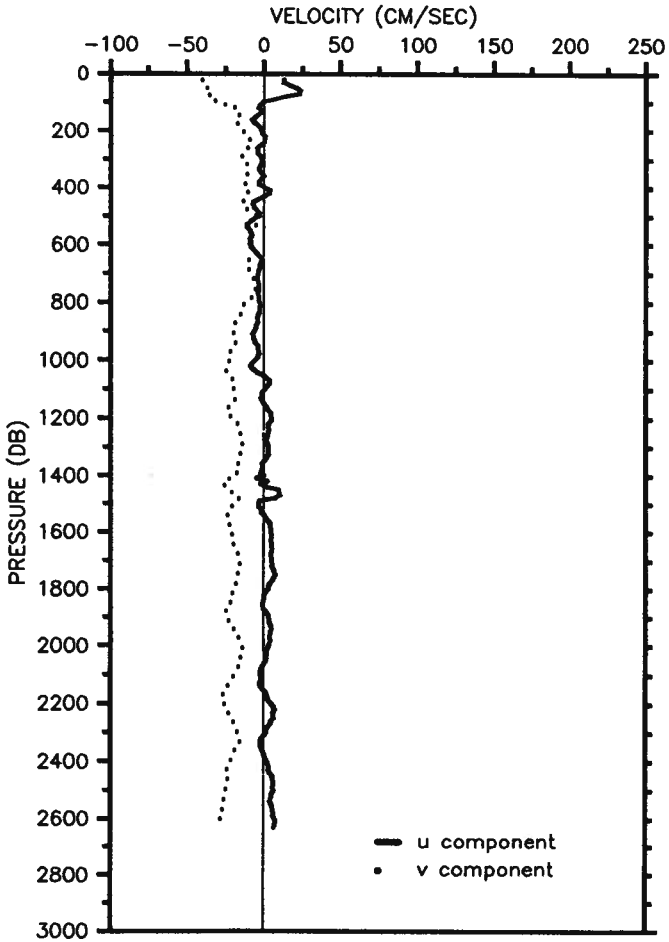
Prs	U	V
30	-21.3	-29.1
40	-14.4	-29.0
50	-8.3	-26.1
60	-2.8	-21.6
70	2.0	-15.7
80	4.1	-15.0
90	6.5	-14.9
100	8.2	-13.2
110	9.5	-13.0
120	9.3	-14.7
130	10.1	-15.5
140	9.7	-13.4
150	10.1	-11.3
160	11.2	-9.8
170	14.5	-9.1
180	14.0	-10.0
190	13.9	-12.8
200	13.4	-15.9
250	6.2	-20.9
300	7.8	-8.9
350	11.4	-8.9
400	7.8	-10.2
450	12.4	-11.3
500	9.8	-12.0
550	9.5	-9.4
600	3.0	-11.9
650	3.9	-11.6
700	-2.7	-5.1
750	-3.3	0.2
800	2.3	-2.8
850	6.1	-4.8
900	7.6	-8.1
950	-0.1	-6.4
1000	2.6	-0.5
1500	7.0	4.5
1880	0.1	0.7

WHI–STACS30–88 PEGASUS 2 STN 34
R/V WHITING JDAY 81 TIME 1723Z
Latitude 26.468 N Longitude 076.146 W



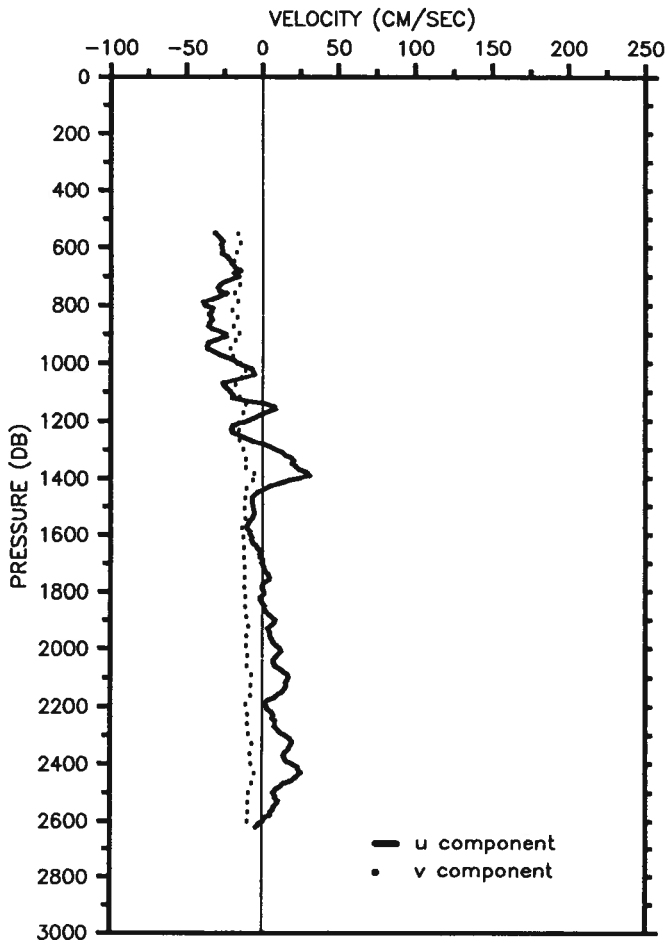
Prs	U	V
30	-53.5	31.8
40	-47.7	27.9
50	-38.1	21.7
60	-30.3	16.6
70	-22.0	13.1
80	-17.1	10.2
90	-15.3	7.4
100	-14.3	4.2
110	-11.7	-0.5
120	-10.2	-6.3
130	-9.8	-8.0
140	-10.3	-9.9
150	-10.7	-12.5
160	-10.8	-14.6
170	-11.1	-15.5
180	-9.3	-17.3
190	-7.4	-17.6
200	-3.7	-18.7
250	-2.8	-19.3
300	-4.1	-16.0
350	-3.4	-13.4
400	2.5	-8.2
450	-2.4	-11.9
500	0.4	-15.8
550	-2.3	-12.8
600	-1.0	-13.9
650	-6.9	-12.2
700	-4.0	-8.9
750	-3.5	-13.2
800	-4.5	-15.0
850	-4.6	-10.9
900	-7.0	-5.6
950	0.0	-11.7
1000	-1.0	-13.2
1500	-0.9	-15.6
2000	1.2	-12.6
2500	1.9	-9.6
2810	3.1	-10.2

WHI-STACS30-88 PEGASUS 3 STN 15
R/V WHITING JDAY 82 TIME 0519Z
Latitude 26.496 N Longitude 076.344 W



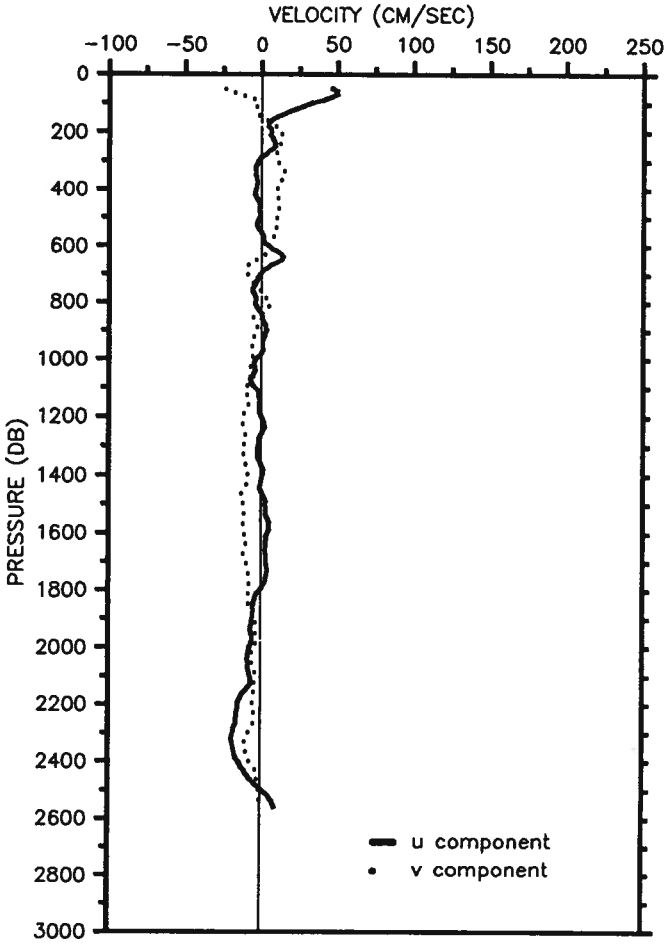
Prs	U	V
20	13.2	-40.0
30	13.2	-40.6
40	17.1	-38.4
50	21.5	-36.0
60	23.3	-33.9
70	23.1	-35.3
80	14.9	-36.2
90	6.5	-33.0
100	-0.7	-29.2
110	-2.5	-22.6
120	-3.2	-16.9
130	-1.3	-16.2
140	-2.8	-16.4
150	-4.8	-16.3
160	-7.4	-18.3
170	-6.5	-17.3
180	-3.6	-14.8
190	-2.2	-13.8
200	-1.7	-13.4
250	-1.9	-8.6
300	-1.1	-12.5
350	-1.5	-11.0
400	0.3	-11.8
450	-6.5	-13.8
500	-2.9	-4.4
550	-9.0	-6.3
600	-8.6	-6.2
650	-1.7	-9.7
700	-3.6	-8.2
750	-3.1	-5.5
800	-2.8	-12.2
850	-3.9	-16.7
900	-6.4	-19.2
950	-4.3	-18.9
1000	-5.7	-22.1
1500	-3.4	-20.0
2000	3.4	-13.8
2500	6.2	-24.8
2630	6.9	-29.1

WHI-STACS30-88 PEGASUS 4 STN 16
R/V WHITING JDAY 82 TIME 1102Z
Latitude 26.532 N Longitude 076.492 W



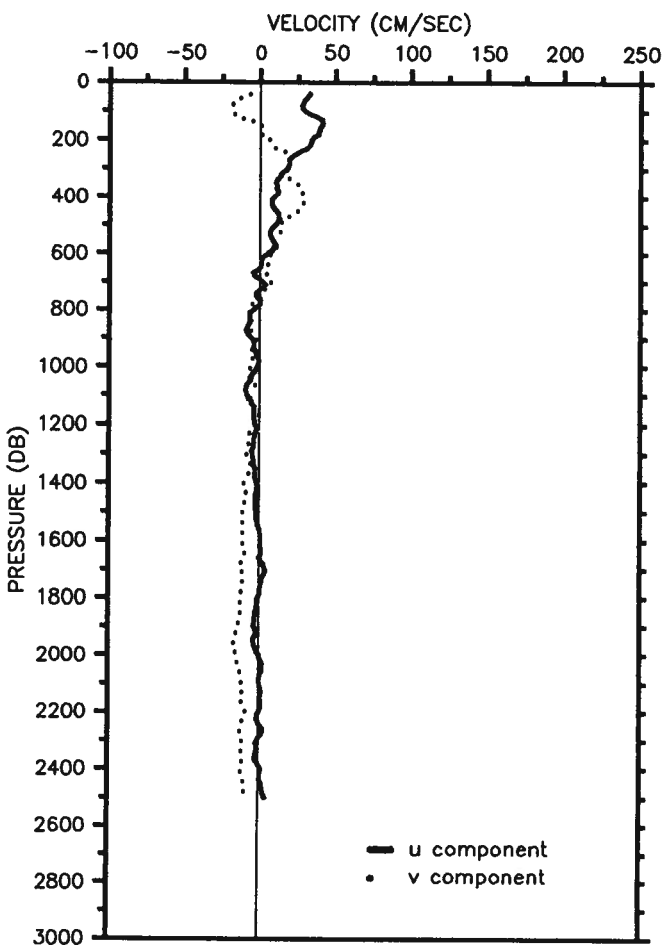
Prs	U	V
550	-31.3	-16.2
600	-26.6	-14.4
650	-21.0	-18.1
700	-15.8	-17.2
750	-28.3	-17.5
800	-37.7	-18.9
850	-33.4	-16.6
900	-24.2	-14.7
950	-36.5	-21.6
1000	-16.6	-14.2
1500	-6.0	-11.8
2000	11.2	-9.4
2500	7.6	-9.2
2620	-3.9	-10.4

WHI-STACS30-88 PEGASUS 5 STN 17
R/V WHITING JDAY 82 TIME 1626Z
Latitude 26.573 N Longitude 076.624 W



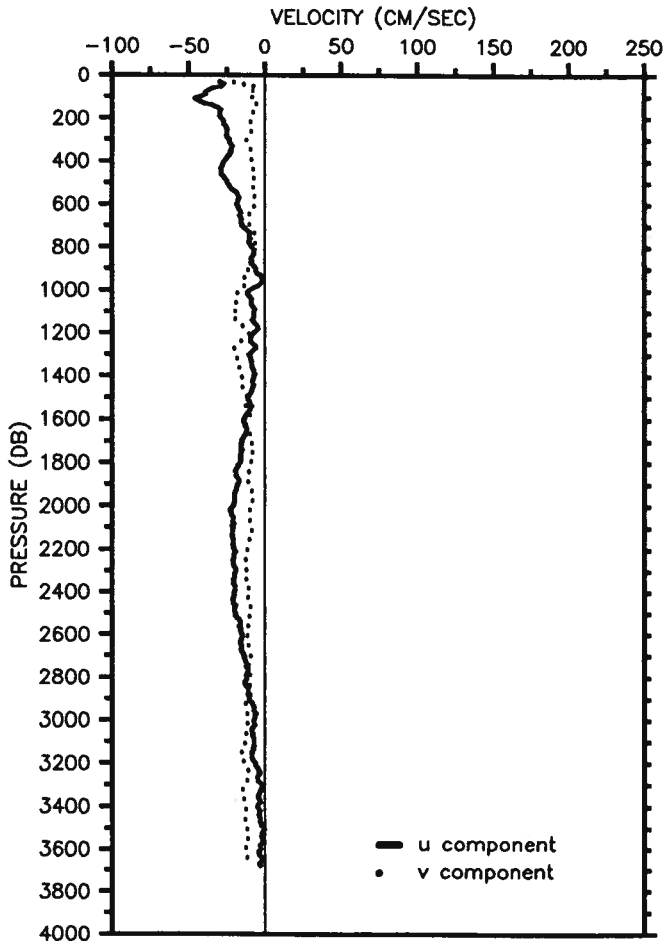
Prs	U	V
50	46.3	-23.8
60	49.2	-19.6
70	49.5	-12.5
80	46.1	-6.3
90	40.3	-2.4
100	33.1	-1.6
110	27.7	-3.5
120	23.1	-3.8
130	18.6	-3.2
140	14.2	-1.4
150	9.7	1.7
160	6.4	4.6
170	4.6	7.4
180	4.7	10.1
190	5.8	11.5
200	6.3	12.3
250	8.7	10.7
300	-2.1	10.9
350	-3.6	15.6
400	-3.6	10.5
450	-1.2	12.1
500	-1.1	10.0
550	-0.3	10.4
600	4.5	5.1
650	13.3	-4.1
700	-0.8	-8.6
750	-5.6	-1.7
800	-4.0	5.9
850	0.4	-5.5
900	3.3	-4.0
950	0.8	-6.2
1000	-3.6	-6.3
1500	2.7	-11.5
2000	-7.5	-5.0
2500	1.2	-0.6
2560	9.2	-4.2

WHI-STACS30-88 PEGASUS 6 STN 18
R/V WHITING JDAY 82 TIME 2138Z
Latitude 26.530 N Longitude 076.736 W



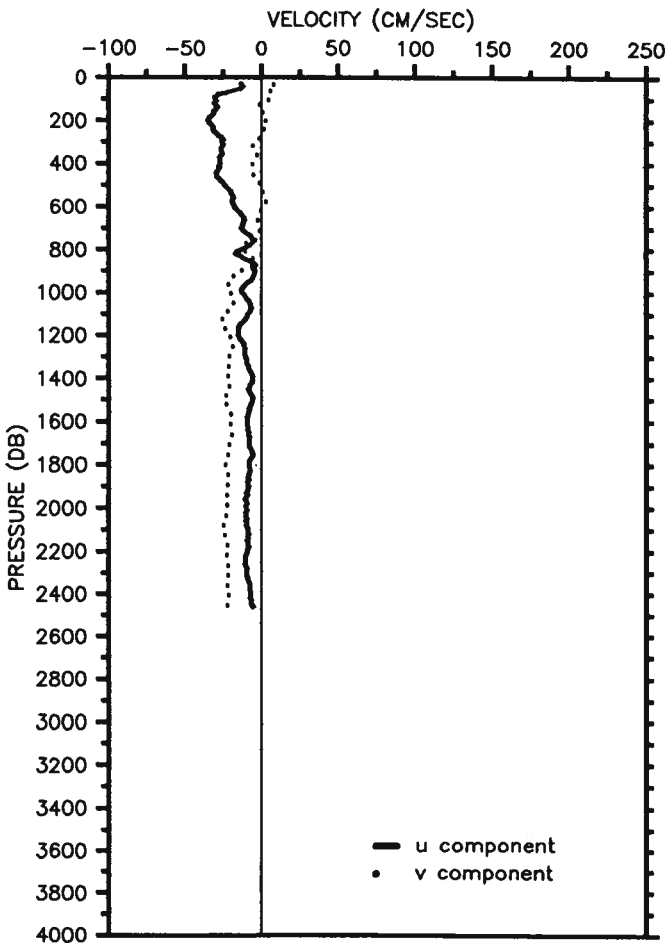
Prs	U	V
40	32.5	-6.6
50	31.6	-10.3
60	29.8	-14.0
70	28.4	-17.3
80	27.6	-18.7
90	27.9	-18.6
100	29.7	-18.3
110	33.3	-16.8
120	37.7	-13.7
130	40.7	-7.7
140	41.0	-0.7
150	40.5	0.7
160	39.3	1.6
170	39.1	0.5
180	38.1	0.8
190	35.5	6.4
200	34.5	6.3
250	23.6	17.4
300	17.9	18.5
350	10.5	23.6
400	9.2	28.1
450	10.7	23.8
500	9.9	13.7
550	8.1	7.8
600	5.4	8.3
650	0.3	4.7
700	1.9	7.5
750	-2.6	2.3
800	-4.1	-7.4
850	-6.9	-7.9
900	-5.4	-2.8
950	-2.5	-5.8
1000	-1.0	-6.3
1500	-2.0	-10.8
2000	0.0	-15.3
2500	4.1	-10.5

WHI–STACS31–88 PEGASUS 1 STN 34
R/V WHITING JDAY 171 TIME 0437Z
Latitude 26.447 N Longitude 076.134 W



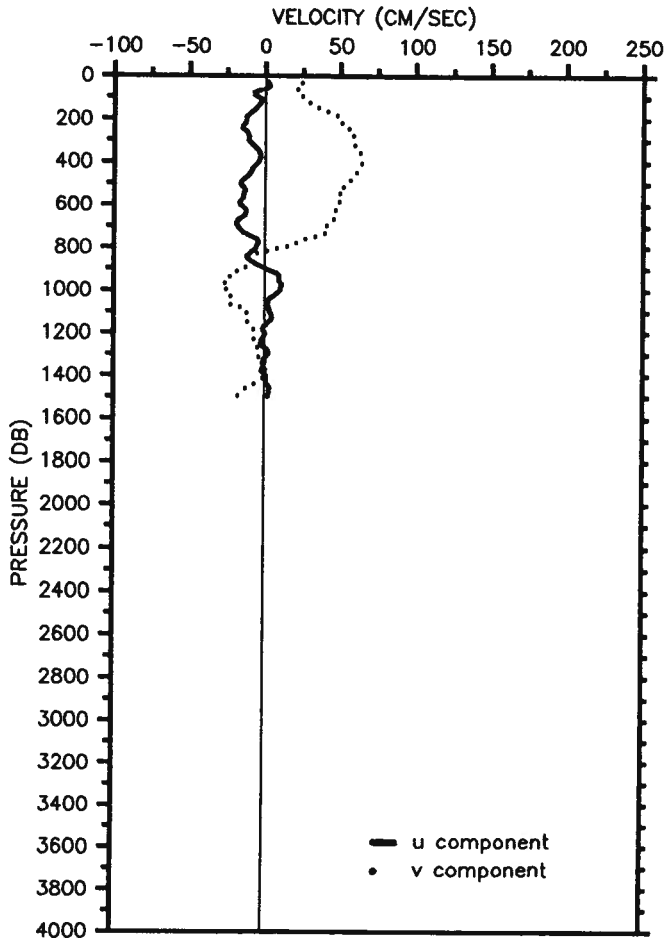
Prs	U	V
30	-29.6	-20.6
40	-27.1	-13.6
50	-28.7	-6.2
60	-34.0	-4.4
70	-36.9	-8.4
80	-38.8	-9.4
90	-39.2	-10.4
100	-41.8	-8.0
110	-45.5	-4.5
120	-43.1	-5.1
130	-39.9	-5.2
140	-34.5	-5.6
150	-30.8	-5.5
160	-29.2	-5.9
170	-29.6	-7.4
180	-29.6	-8.5
190	-29.8	-8.9
200	-28.6	-9.2
250	-25.2	-7.8
300	-23.5	-12.2
350	-22.4	-8.5
400	-26.8	-8.7
450	-28.7	-5.8
500	-24.5	-8.0
550	-18.3	-5.7
600	-18.2	-7.4
650	-16.4	-10.3
700	-14.5	-9.7
750	-10.1	-5.7
800	-8.3	-8.2
850	-8.7	-6.9
900	-5.9	-10.4
950	-1.5	-12.2
1000	-10.1	-17.3
1500	-11.0	-11.9
2000	-20.9	-8.9
2500	-19.2	-10.3
3000	-7.2	-11.2
3500	-0.9	-11.8
3680	-2.9	-11.8

WHI–STACS31–88 PEGASUS 2 STN 15
R/V WHITING JDAY 172 TIME 0426Z
Latitude 26.477 N Longitude 076.322 W



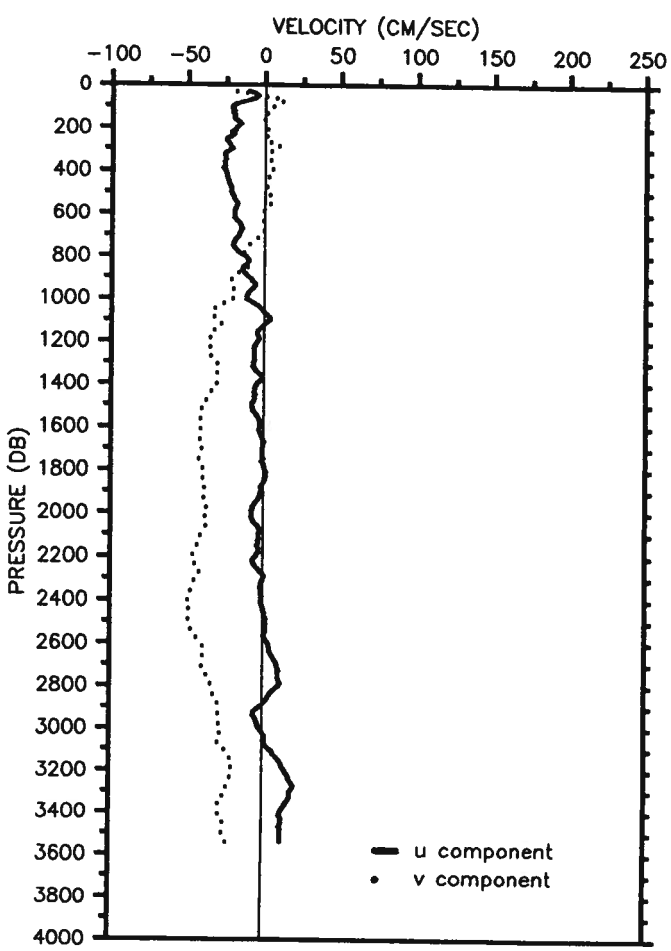
Prs	U	V
30	-13.5	7.9
40	-11.9	5.3
50	-13.8	4.6
60	-17.9	5.8
70	-22.7	7.3
80	-28.2	6.7
90	-30.2	6.0
100	-30.0	5.2
110	-29.8	3.0
120	-30.5	-0.6
130	-29.8	-2.1
140	-28.9	-1.5
150	-30.1	-0.6
160	-31.2	1.0
170	-31.4	2.7
180	-32.6	3.9
190	-34.3	3.9
200	-34.7	3.1
250	-30.9	1.1
300	-25.7	-4.5
350	-25.7	-2.7
400	-27.2	-5.6
450	-29.4	-5.0
500	-24.0	-0.7
550	-18.6	2.6
600	-17.5	0.7
650	-11.8	-2.5
700	-12.9	-1.5
750	-5.8	-4.1
800	-12.6	-11.1
850	-8.4	-4.4
900	-4.1	-13.7
950	-7.7	-21.1
1000	-12.5	-19.7
1500	-5.9	-24.0
2000	-9.9	-22.7
2460	-5.3	-20.3

MIT–STACS32–88 PEGASUS 11 STN 19
R/V MT MITCHELL JDAY 279 TIME 0355Z
Latitude 26.529 N Longitude 076.806 W



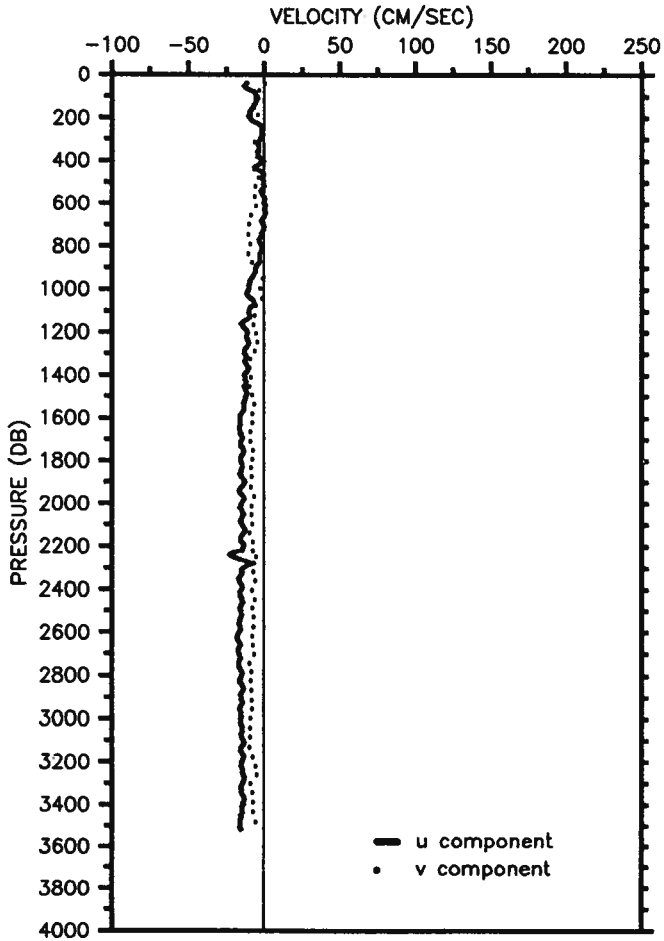
Prs	U	V
30	1.7	24.2
40	2.5	23.0
50	2.6	20.0
60	1.1	21.5
70	−3.5	22.9
80	−6.9	24.7
90	−6.6	24.7
100	−4.5	24.5
110	−2.5	26.6
120	−2.7	27.9
130	−3.7	30.6
140	−4.9	33.2
150	−6.0	36.4
160	−7.4	39.9
170	−9.1	43.0
180	−11.1	47.2
190	−12.3	49.8
200	−12.5	51.1
250	−13.6	57.4
300	−10.9	58.3
350	−4.2	62.3
400	−4.6	63.9
450	−9.7	60.4
500	−15.7	55.5
550	−14.1	50.5
600	−16.2	47.8
650	−13.5	47.5
700	−18.1	41.3
750	−7.8	31.1
800	−5.6	9.7
850	−11.4	−5.6
900	0.3	−15.5
950	9.5	−26.4
1000	9.9	−26.2
1500	2.5	−18.4

MIT–STACS32–88 PEGASUS 12 STN 16
R/V MT MITCHELL JDAY 280 TIME 0503Z
Latitude 26.501 N Longitude 076.505 W



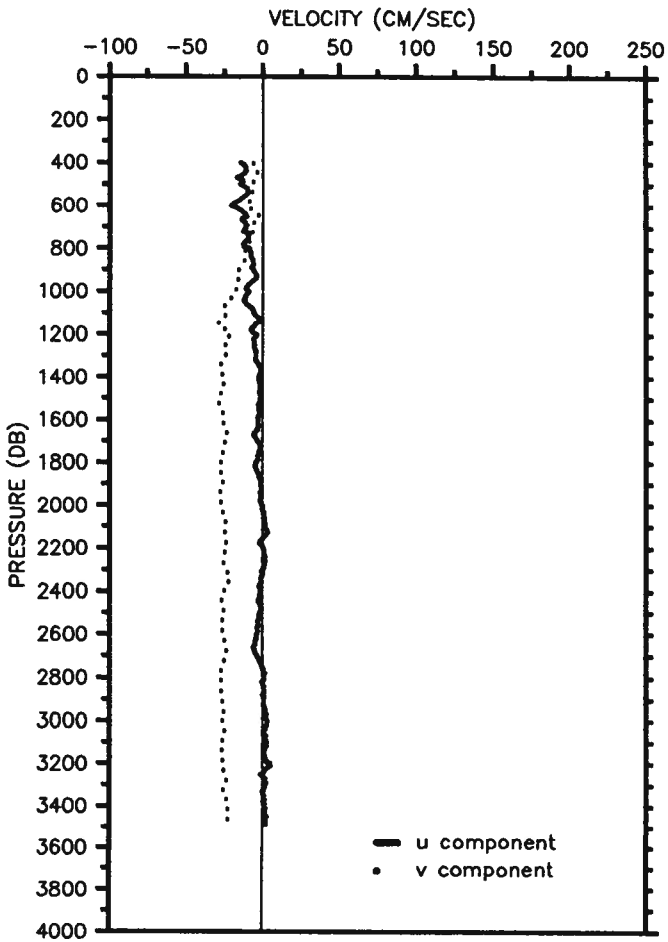
Prs	U	V
30	−10.5	−18.6
40	−6.8	−10.7
50	−4.7	−0.2
60	−5.7	8.1
70	−8.9	12.4
80	−13.9	11.1
90	−19.1	6.6
100	−20.8	5.6
110	−21.3	5.5
120	−20.4	4.6
130	−20.7	1.9
140	−19.9	0.1
150	−19.9	−2.1
160	−19.7	−0.4
170	−17.3	−0.5
180	−16.0	0.4
190	−17.5	0.3
200	−18.9	1.0
250	−24.6	0.1
300	−21.1	7.7
350	−25.8	3.9
400	−25.8	3.8
450	−23.8	2.8
500	−21.5	1.9
550	−18.4	4.0
600	−19.7	−1.2
650	−15.9	−0.5
700	−16.6	−1.6
750	−20.3	−10.5
800	−12.6	−12.4
850	−13.6	−10.6
900	−9.8	−21.0
950	−7.0	−20.0
1000	−11.1	−20.9
1500	−7.5	−39.5
2000	−7.5	−38.9
2500	1.5	−48.5
3000	−2.1	−27.5
3500	12.2	−25.4
3540	12.3	−23.3

MIT–STACS32–88 PEGASUS 13 STN 34
R/V MT MITCHELL JDAY 280 TIME 1947Z
Latitude 26.461 N Longitude 076.115 W



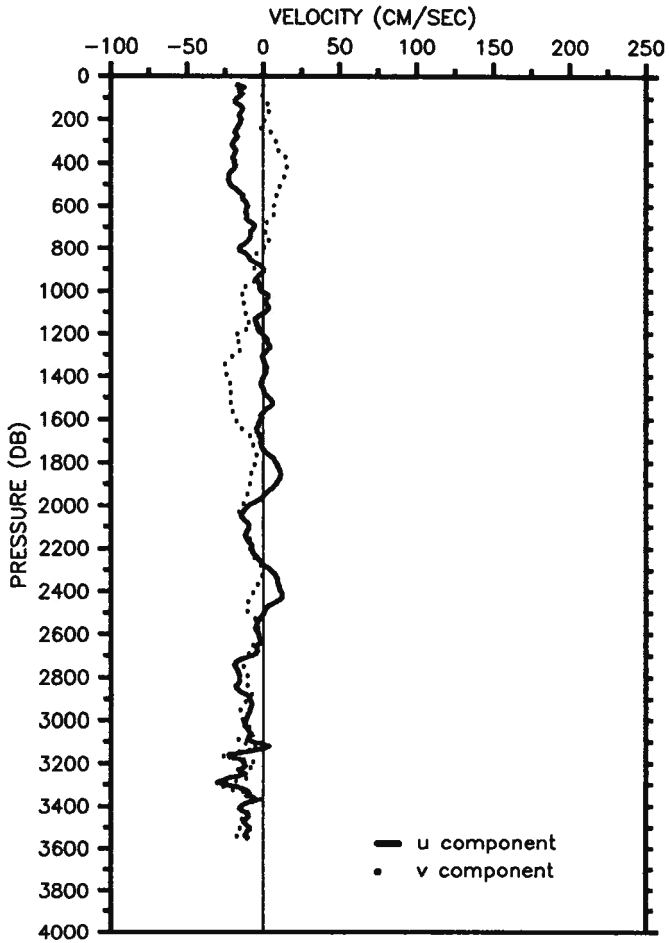
Prs	U	V
40	−11.8	0.3
50	−13.1	−1.3
60	−11.7	−3.5
70	−9.5	−3.4
80	−6.6	−1.8
90	−5.6	−1.4
100	−4.9	−2.6
110	−5.3	−4.3
120	−5.2	−4.8
130	−5.6	−4.8
140	−6.8	−5.9
150	−7.5	−6.8
160	−8.2	−7.4
170	−9.1	−6.5
180	−9.6	−4.7
190	−10.0	−3.8
200	−9.6	−3.7
250	−0.9	−1.6
300	−2.4	−5.4
350	−3.5	−5.3
400	−0.4	−1.7
450	−1.9	−3.3
500	−0.4	−3.7
550	−1.5	−6.0
600	0.0	−4.8
650	0.6	−8.9
700	−0.4	−10.2
750	−1.8	−10.8
800	−1.6	−8.6
850	−2.7	−9.8
900	−5.5	−7.2
950	−8.1	−0.9
1000	−10.4	−2.6
1500	−12.0	−8.8
2000	−14.9	−8.6
2500	−15.5	−6.1
3000	−15.2	−9.4
3500	−15.8	−6.2
3520	−15.3	−7.2

MIT–STACS32–88 PEGASUS 14 STN 15
R/V MT MITCHELL JDAY 281 TIME 0111Z
Latitude 26.465 N Longitude 076.293 W



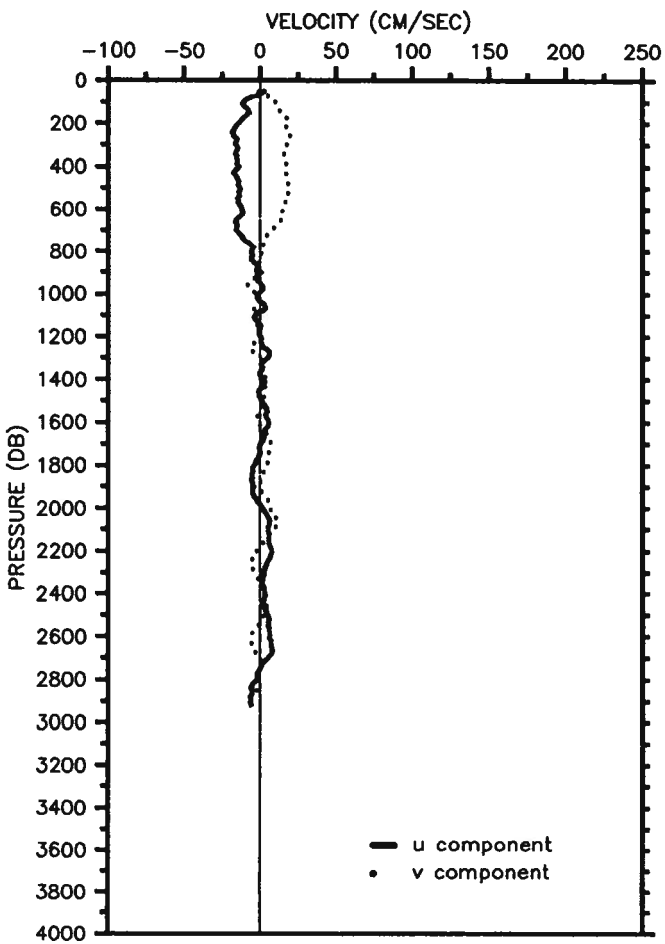
Prs	U	V
400	−14.2	−6.1
450	−11.9	−3.6
500	−14.4	−6.1
550	−10.9	−8.2
600	−20.6	−10.7
650	−11.0	−2.5
700	−11.1	−6.0
750	−9.5	−7.7
800	−9.3	−10.6
850	−6.7	−12.0
900	−6.3	−18.0
950	−6.0	−15.8
1000	−9.3	−17.7
1500	−1.7	−28.2
2000	−0.2	−26.9
2500	−1.6	−25.7
3000	3.2	−26.0
3490	2.1	−22.7

MIT–STACS32–88 PEGASUS 15 STN 17
R/V MT MITCHELL JDAY 281 TIME 0903Z
Latitude 26.563 N Longitude 076.606 W



Prs	U	V
40	−16.8	−0.1
50	−12.9	−1.0
60	−15.4	−0.7
70	−15.4	−0.8
80	−13.9	−0.3
90	−15.0	−0.2
100	−17.2	0.2
110	−18.2	0.8
120	−17.7	2.6
130	−15.6	4.8
140	−14.0	5.6
150	−13.7	5.1
160	−14.1	3.8
170	−15.1	2.8
180	−15.2	2.3
190	−14.8	1.9
200	−14.6	1.4
250	−17.8	2.5
300	−19.0	8.5
350	−18.5	11.1
400	−18.6	15.7
450	−22.2	14.0
500	−21.1	11.3
550	−13.5	8.8
600	−10.4	6.7
650	−10.7	6.5
700	−5.6	2.5
750	−8.7	2.0
800	−15.3	−0.7
850	−8.6	−8.5
900	0.3	−4.1
950	−4.2	−4.9
1000	−1.0	−14.8
1500	3.8	−22.6
2000	−9.5	−14.1
2500	0.6	−9.3
3000	−11.8	−12.9
3500	−9.1	−15.2
3550	−10.4	−17.2

MIT–STACS32–88 PEGASUS 16 STN 18
R/V MT MITCHELL JDAY 281 TIME 2220Z
Latitude 26.510 N Longitude 076.713 W



Prs	U	V
50	2.6	−1.0
60	0.7	0.7
70	−1.1	4.8
80	−5.8	8.2
90	−9.4	9.9
100	−11.0	10.2
110	−11.3	11.0
120	−10.3	12.3
130	−8.9	12.9
140	−7.8	13.1
150	−7.2	13.8
160	−8.8	15.0
170	−10.5	17.0
180	−11.5	18.3
190	−12.7	17.7
200	−14.0	17.3
250	−17.5	20.2
300	−15.9	17.5
350	−15.5	15.8
400	−14.3	18.2
450	−15.3	17.5
500	−13.3	18.1
550	−14.4	18.1
600	−12.1	15.5
650	−15.3	13.8
700	−15.2	7.0
750	−9.5	3.1
800	−5.5	0.3
850	−4.1	−0.6
900	−1.9	1.3
950	0.0	−8.4
1000	−1.0	−2.6
1500	1.0	2.9
2000	1.8	7.2
2500	4.9	2.4
2920	−5.7	−9.5

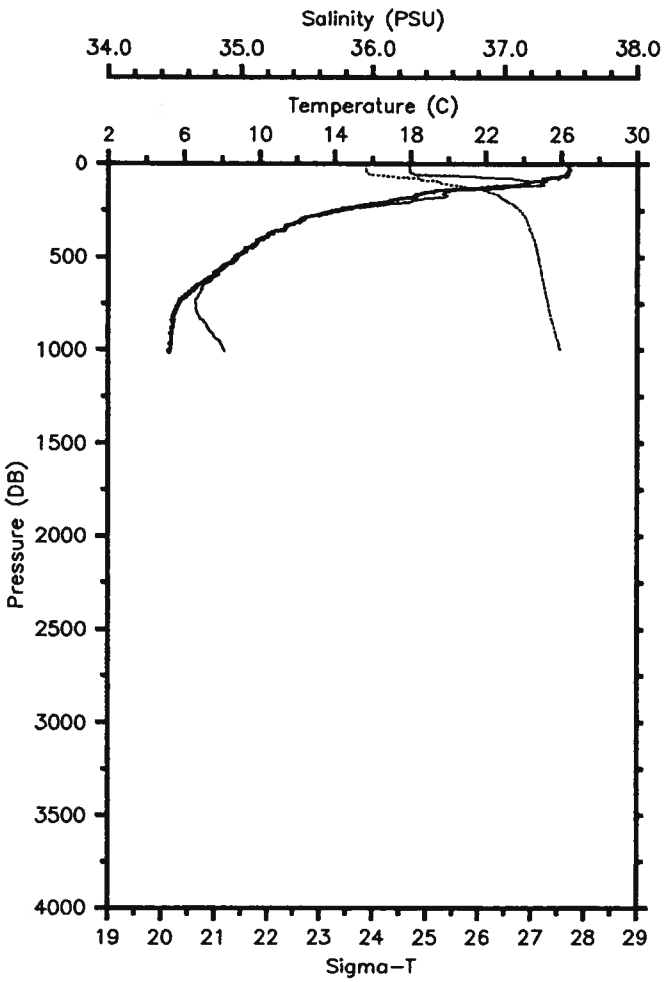
APPENDIX B: CTD DATA

Casts are presented by cruise and increasing cast number. Julian day and time, cruise number and vessel, and position are given at the top of each plot. Temperature, salinity and sigma-t profiles are shown for each cast.

WHI–STACS30–88 CTD 1 WHITING

Date 03 04 88 Latitude 12.986 N

Time 1855 Z Longitude 60.931 W

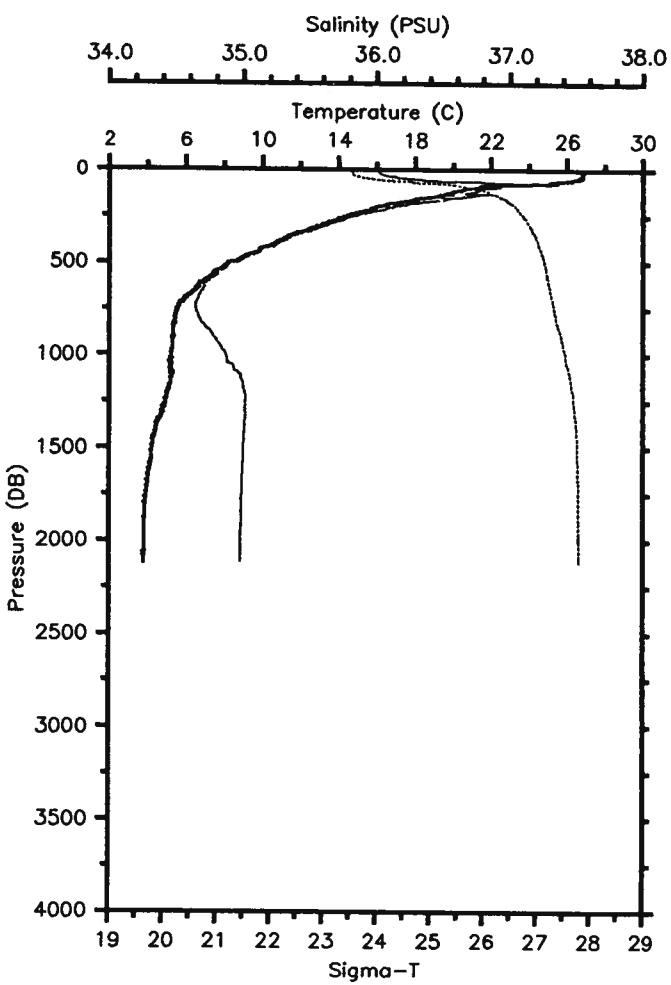


Prs	Tem	Sal	SigT
0	26.38	36.275	23.88
10	26.38	36.279	23.88
20	26.38	36.279	23.88
30	26.38	36.279	23.88
40	26.38	36.280	23.88
50	26.35	36.287	23.90
60	26.25	36.394	24.01
70	25.89	36.815	24.44
80	25.09	37.069	24.88
90	24.93	37.220	25.04
100	24.29	37.278	25.28
110	23.79	37.283	25.43
120	22.61	37.155	25.68
130	21.81	37.005	25.80
140	19.74	36.664	26.10
150	19.25	36.579	26.17
160	18.61	36.530	26.29
170	18.26	36.563	26.40
180	18.12	36.536	26.42
190	17.35	36.378	26.49
200	16.93	36.312	26.54
250	13.99	35.781	26.79
300	12.23	35.474	26.91
350	11.31	35.331	26.98
400	10.17	35.155	27.04
450	9.41	35.062	27.10
500	8.74	34.979	27.14
550	8.08	34.890	27.18
600	7.58	34.830	27.20
650	6.67	34.718	27.24
700	6.22	34.686	27.28
750	5.71	34.659	27.32
800	5.49	34.665	27.35
850	5.41	34.722	27.41
900	5.32	34.771	27.46
950	5.31	34.835	27.51
1000	5.23	34.872	27.55
1010	5.21	34.878	27.55

WHI–STACS30–88 CTD 2 WHITING

Date 03 04 88 Latitude 13.020 N

Time 2230 Z Longitude 60.647 W

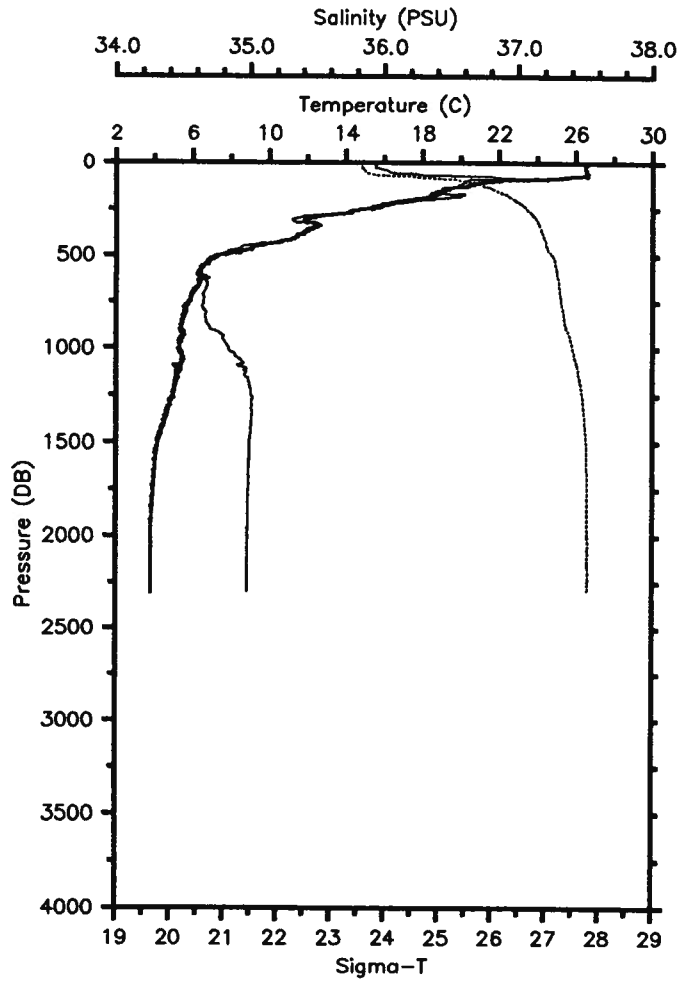


Prs	Tem	Sal	SigT
0	26.81	36.020	23.55
10	26.82	36.016	23.54
20	26.83	36.020	23.54
30	26.82	36.056	23.57
40	26.69	36.143	23.68
50	26.34	36.268	23.88
60	25.53	36.411	24.25
70	25.42	37.024	24.74
80	22.72	36.827	25.40
90	22.05	36.851	25.61
100	20.83	36.788	25.90
110	20.44	36.768	25.99
120	20.02	36.741	26.09
130	19.61	36.666	26.14
140	19.32	36.735	26.27
150	18.66	36.606	26.34
160	18.10	36.526	26.42
170	17.61	36.423	26.46
180	16.97	36.304	26.52
190	16.54	36.224	26.57
200	16.05	36.133	26.61
250	14.43	35.849	26.75
300	13.12	35.638	26.86
350	11.65	35.401	26.97
400	10.68	35.257	27.03
450	9.61	35.096	27.09
500	8.27	34.894	27.15
550	7.61	34.805	27.18
600	7.01	34.745	27.22
650	6.51	34.700	27.25
700	5.92	34.659	27.29
750	5.56	34.644	27.33
800	5.45	34.667	27.36
850	5.34	34.717	27.41
900	5.32	34.776	27.46
950	5.31	34.827	27.50
1000	5.23	34.869	27.54
1500	4.22	35.002	27.76
2000	3.82	34.983	27.79
2114	3.81	34.982	27.79

WHI–STACS30–88 CTD 3 WHITING

Date 03 05 88 Latitude 13.012 N

Time 0305 Z Longitude 60.303 W

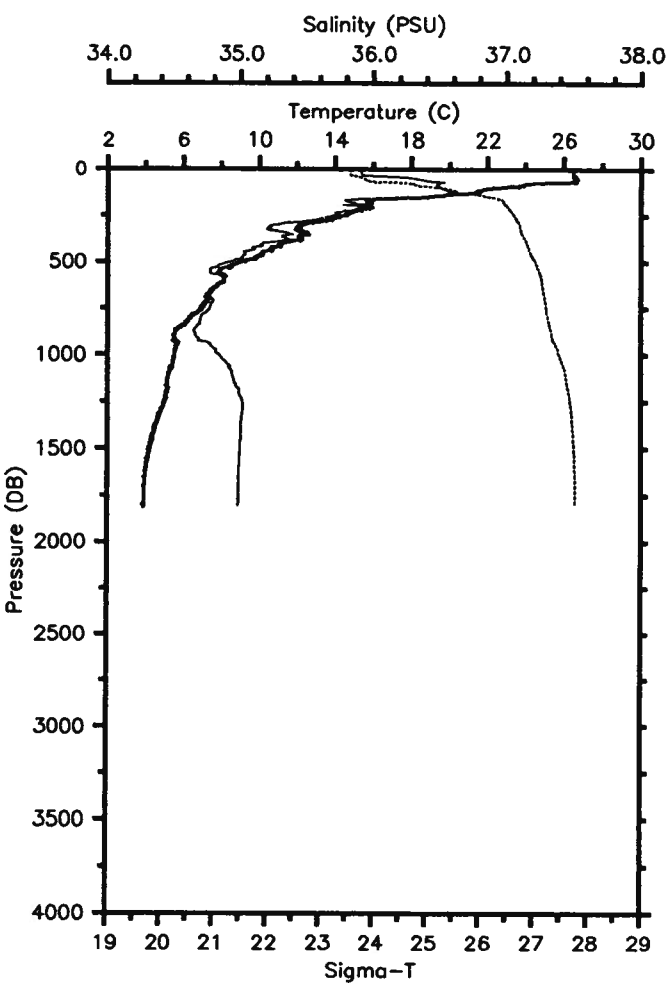


Prs	Tem	Sal	SigT
0	26.48	35.933	23.59
10	26.48	35.931	23.59
20	26.50	35.936	23.59
30	26.50	35.937	23.59
40	26.53	36.003	23.63
50	26.54	36.040	23.65
60	26.60	36.195	23.75
70	26.55	36.327	23.86
80	25.36	36.842	24.63
90	23.55	36.816	25.15
100	21.74	36.603	25.51
110	20.84	36.591	25.75
120	20.49	36.558	25.82
130	20.20	36.592	25.92
140	19.40	36.443	26.02
150	19.10	36.459	26.11
160	18.72	36.430	26.19
170	18.82	36.603	26.29
180	18.57	36.578	26.34
190	17.91	36.437	26.40
200	17.34	36.319	26.45
250	14.96	35.875	26.66
300	12.14	35.348	26.83
350	12.30	35.493	26.91
400	11.40	35.348	26.97
450	9.35	34.959	27.03
500	7.41	34.736	27.15
550	6.69	34.659	27.19
600	6.30	34.631	27.22
650	6.33	34.680	27.26
700	6.03	34.656	27.28
750	5.80	34.650	27.30
800	5.57	34.659	27.34
850	5.45	34.671	27.36
900	5.34	34.705	27.40
950	5.40	34.796	27.47
1000	5.29	34.840	27.51
1500	4.16	34.998	27.77
2000	3.83	34.984	27.79
2304	3.82	34.983	27.79

WHI–STACS30–88 CTD 4 WHITING

Date 03 05 88 Latitude 12.979 N

Time 0735 Z Longitude 60.001 W

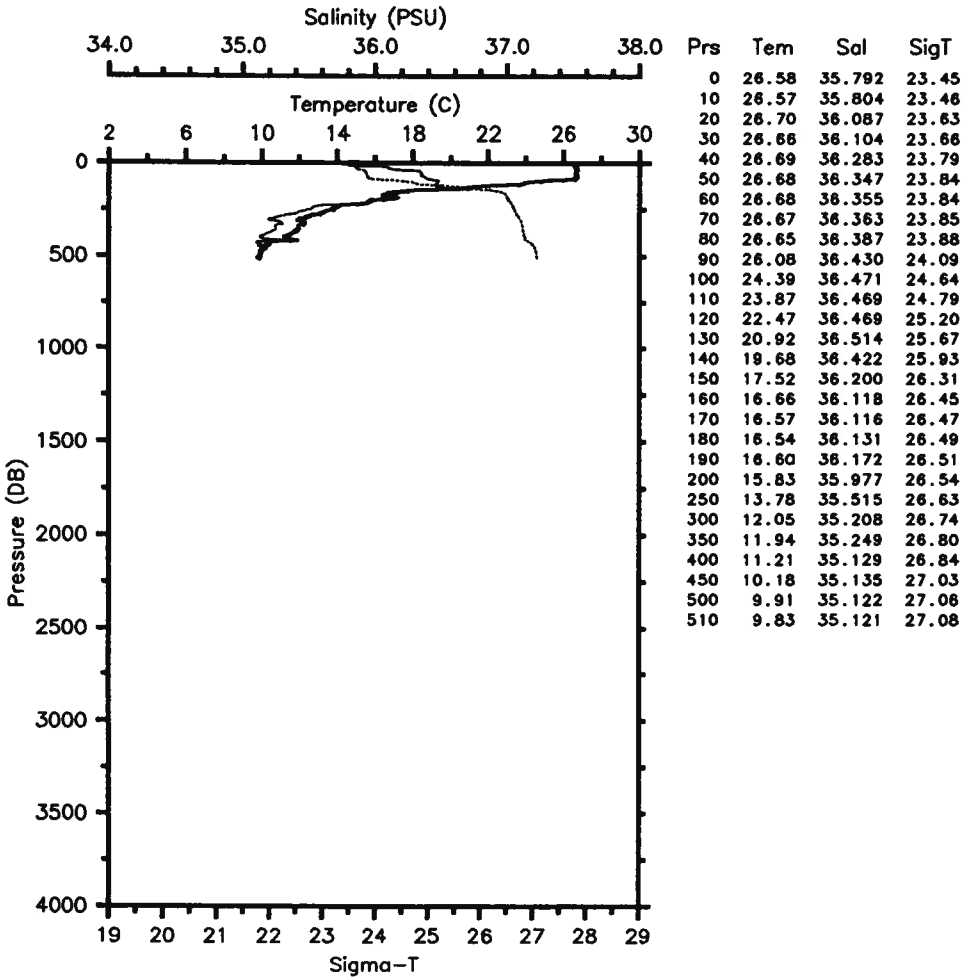


Prs	Tem	Sal	SigT
0	26.49	35.911	23.57
10	26.49	35.909	23.57
20	26.49	35.910	23.57
30	26.50	35.921	23.57
40	26.55	36.076	23.67
50	26.62	36.301	23.82
60	26.64	36.388	23.88
70	25.35	36.508	24.38
80	23.95	36.480	24.78
90	23.65	36.490	24.88
100	22.25	36.514	25.30
110	21.70	36.545	25.48
120	21.50	36.605	25.58
130	20.34	36.583	25.88
140	19.45	36.497	26.05
150	17.93	36.286	26.28
160	15.94	35.847	26.41
170	15.71	35.800	26.43
180	15.86	35.867	26.45
190	15.57	35.823	26.48
200	15.68	35.900	26.51
250	14.54	35.728	26.63
300	12.22	35.254	26.74
350	12.54	35.398	26.79
400	11.16	35.168	26.88
450	10.20	35.029	26.94
500	9.11	34.925	27.04
550	7.93	34.776	27.11
600	8.14	34.867	27.15
650	7.51	34.791	27.18
700	7.22	34.781	27.22
750	6.96	34.768	27.24
800	6.34	34.702	27.27
850	5.84	34.672	27.31
900	5.49	34.665	27.35
950	5.65	34.775	27.42
1000	5.52	34.840	27.49
1500	4.23	35.000	27.76
1806	3.90	34.989	27.79

WHI–STACS30–88 CTD 5 WHITING

Date 03 05 88 Latitude 13.028 N

Time 1050 Z Longitude 59.684 W

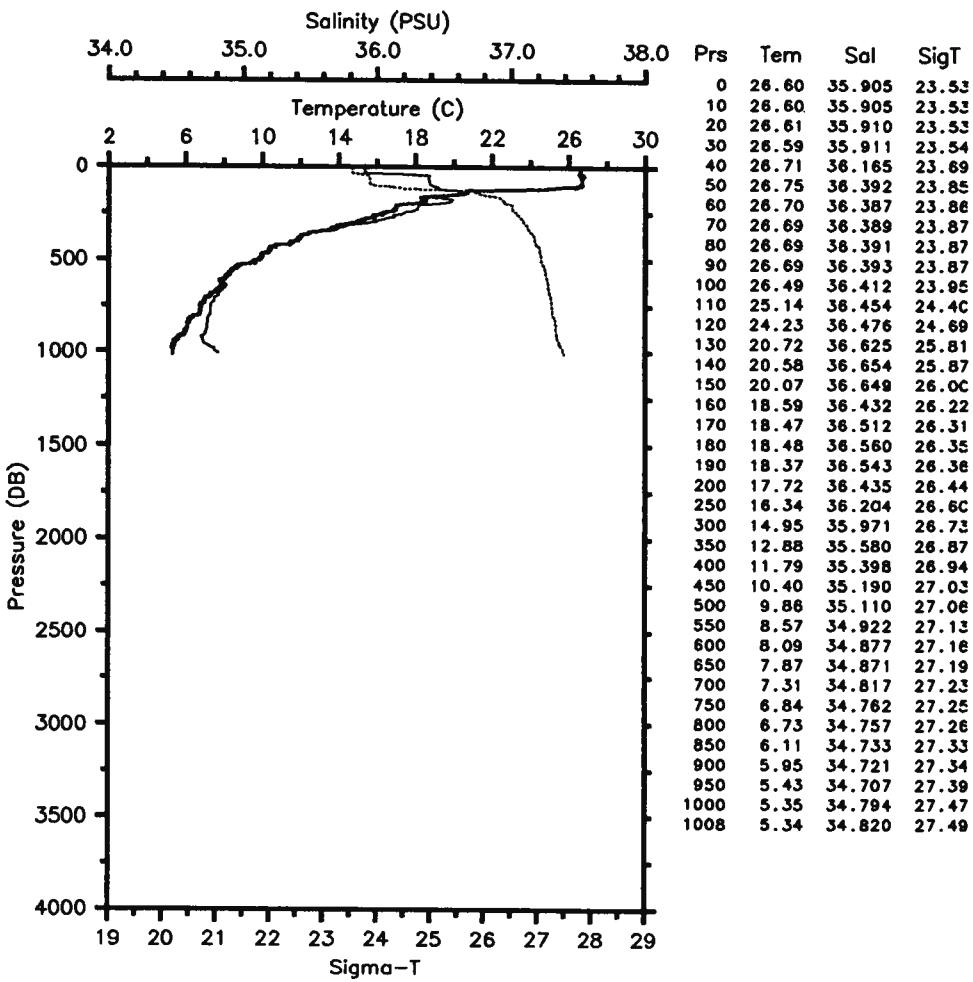


Prs	Tem	Sal	SigT
0	26.58	35.792	23.45
10	26.57	35.804	23.46
20	26.70	36.087	23.63
30	26.66	36.104	23.66
40	26.69	36.283	23.79
50	26.68	36.347	23.84
60	26.68	36.355	23.84
70	26.67	36.363	23.85
80	26.65	36.387	23.88
90	26.08	36.430	24.09
100	24.39	36.471	24.64
110	23.87	36.469	24.79
120	22.47	36.469	25.20
130	20.92	36.514	25.67
140	19.68	36.422	25.93
150	17.52	36.200	26.31
160	16.66	36.118	26.45
170	16.57	36.116	26.47
180	16.54	36.131	26.49
190	16.60	36.172	26.51
200	15.83	35.977	26.54
250	13.78	35.515	26.63
300	12.05	35.208	26.74
350	11.94	35.249	26.80
400	11.21	35.129	26.84
450	10.18	35.135	27.03
500	9.91	35.122	27.08
510	9.83	35.121	27.08

WHI–STACS30–88 CTD 6 WHITING

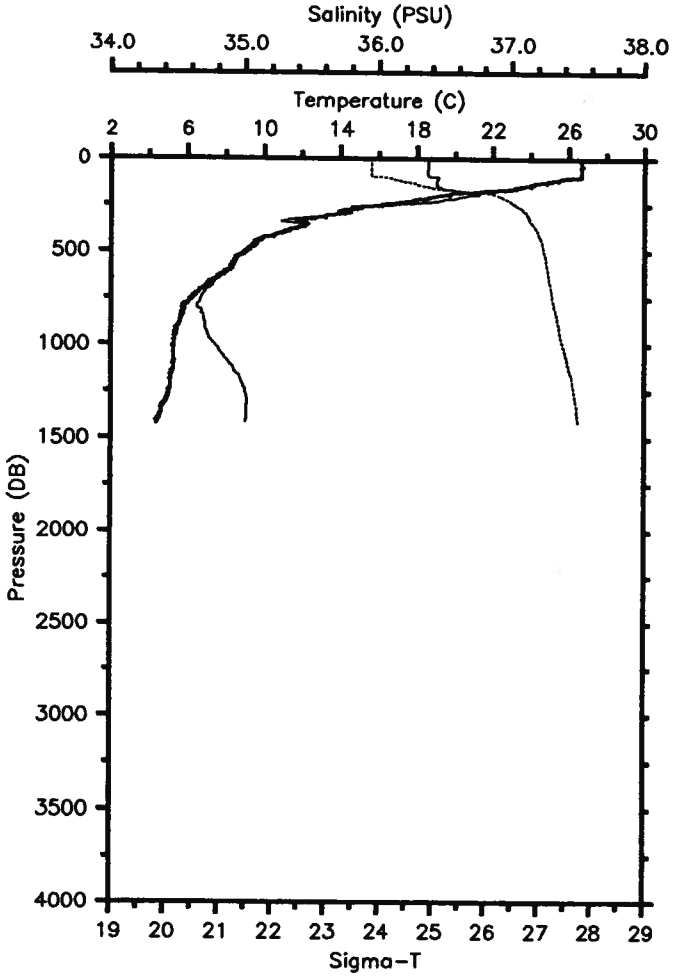
Date 03 05 88 Latitude 13.008 N

Time 1327 Z Longitude 59.355 W



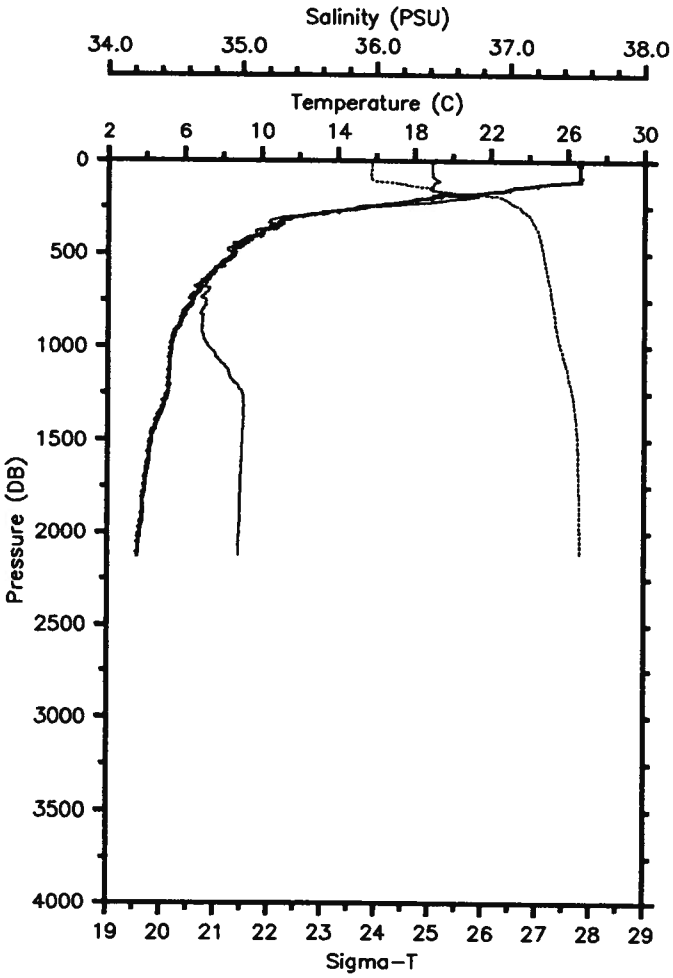
Prs	Tem	Sal	SigT
0	26.60	35.905	23.53
10	26.60	35.905	23.53
20	26.61	35.910	23.53
30	26.59	35.911	23.54
40	26.71	36.165	23.69
50	26.75	36.392	23.85
60	26.70	36.387	23.86
70	26.69	36.389	23.87
80	26.69	36.391	23.87
90	26.69	36.393	23.87
100	26.49	36.412	23.95
110	25.14	36.454	24.40
120	24.23	36.476	24.69
130	20.72	36.625	25.81
140	20.58	36.654	25.87
150	20.07	36.649	26.00
160	18.59	36.432	26.22
170	18.47	36.512	26.31
180	18.48	36.560	26.35
190	18.37	36.543	26.36
200	17.72	36.435	26.44
250	16.34	36.204	26.60
300	14.95	35.971	26.73
350	12.88	35.580	26.87
400	11.79	35.398	26.94
450	10.40	35.190	27.03
500	9.88	35.110	27.06
550	8.57	34.922	27.13
600	8.09	34.877	27.16
650	7.87	34.871	27.19
700	7.31	34.817	27.23
750	6.84	34.762	27.25
800	6.73	34.757	27.26
850	6.11	34.733	27.33
900	5.95	34.721	27.34
950	5.43	34.707	27.39
1000	5.35	34.794	27.47
1008	5.34	34.820	27.49

WHI–STACS30–88 CTD 7 WHITING
Date 03 05 88 Latitude 12.998 N
Time 1656 Z Longitude 58.968 W



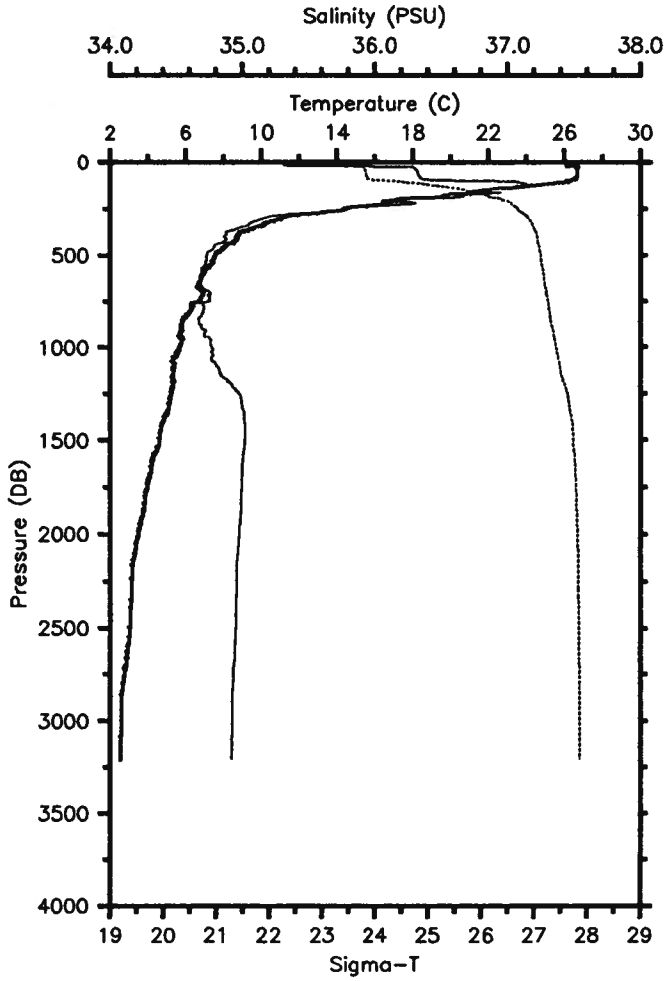
Prs	Tem	Sal	SigT
0	26.64	36.371	23.87
10	26.67	36.369	23.86
20	26.68	36.368	23.85
30	26.68	36.368	23.85
40	26.68	36.368	23.85
50	26.68	36.367	23.85
60	26.67	36.365	23.85
70	26.66	36.365	23.86
80	26.66	36.365	23.86
90	26.66	36.367	23.86
100	26.10	36.448	24.10
110	25.48	36.441	24.29
120	24.98	36.434	24.43
130	24.26	36.434	24.65
140	23.99	36.434	24.73
150	23.50	36.437	24.88
160	23.13	36.478	25.02
170	22.15	36.568	25.37
180	20.78	36.621	25.79
190	19.74	36.754	26.17
200	19.34	36.694	26.23
250	16.18	36.122	26.57
300	13.87	35.728	26.78
350	12.03	35.398	26.89
400	11.02	35.278	26.99
450	9.63	35.062	27.06
500	9.10	34.999	27.10
550	8.49	34.925	27.14
600	8.19	34.904	27.17
650	7.45	34.804	27.20
700	6.85	34.737	27.23
750	6.26	34.675	27.26
800	5.76	34.644	27.30
850	5.68	34.692	27.35
900	5.48	34.703	27.38
950	5.35	34.723	27.41
1000	5.29	34.775	27.46
1416	4.38	35.007	27.75

WHI–STACS30–88 CTD 8 WHITING
Date 03 05 88 Latitude 12.992 N
Time 2055 Z Longitude 58.588 W



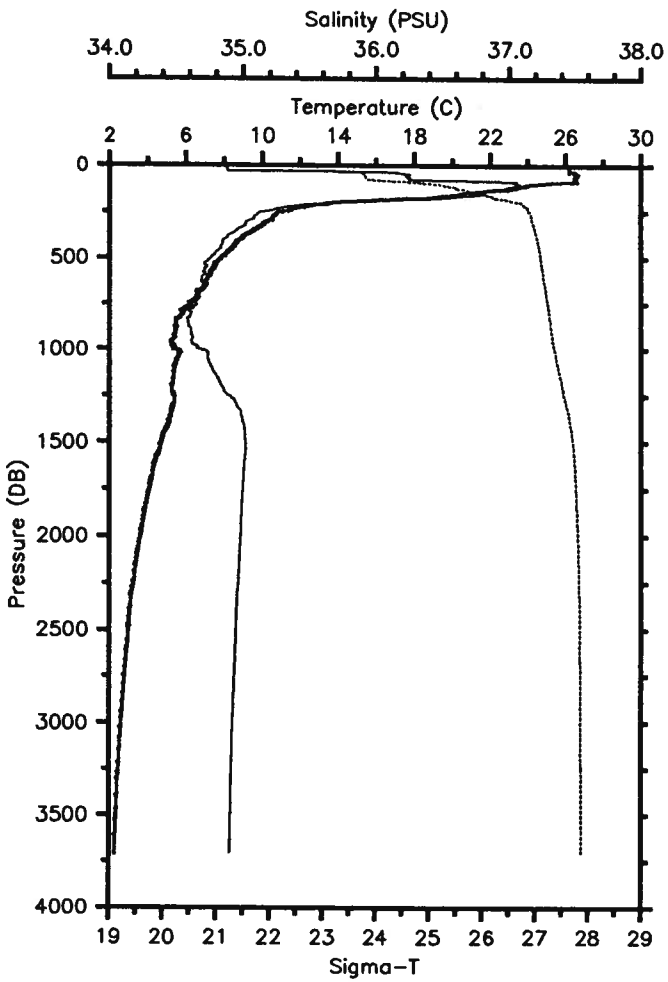
Prs	Tem	Sal	SigT
0	26.58	36.351	23.87
10	26.61	36.421	23.91
20	26.62	36.421	23.91
30	26.62	36.421	23.91
40	26.62	36.421	23.91
50	26.62	36.421	23.91
60	26.64	36.421	23.91
70	26.64	36.423	23.91
80	26.64	36.425	23.91
90	26.65	36.428	23.91
100	26.66	36.452	23.92
110	26.54	36.475	23.98
120	25.20	36.433	24.37
130	24.50	36.432	24.58
140	23.88	36.420	24.75
150	23.05	36.421	25.00
160	22.75	36.422	25.09
170	21.85	36.500	25.40
180	21.08	36.534	25.65
190	19.27	36.662	26.22
200	18.90	36.702	26.35
250	15.21	35.968	26.67
300	12.36	35.432	26.86
350	10.92	35.228	26.97
400	10.03	35.112	27.03
450	8.92	34.932	27.08
500	8.62	34.921	27.12
550	8.04	34.849	27.15
600	7.55	34.803	27.19
650	7.02	34.749	27.22
700	6.80	34.753	27.25
750	6.44	34.730	27.28
800	6.10	34.707	27.31
850	5.85	34.703	27.34
900	5.67	34.705	27.36
950	5.40	34.715	27.40
1000	5.33	34.750	27.44
1500	4.28	35.005	27.76
2000	3.69	34.983	27.80
2124	3.56	34.977	27.81

WHI–STACS30–88 CTD 9 WHITING
Date 03 06 88 Latitude 12.996 N
Time 0242 Z Longitude 57.997 W



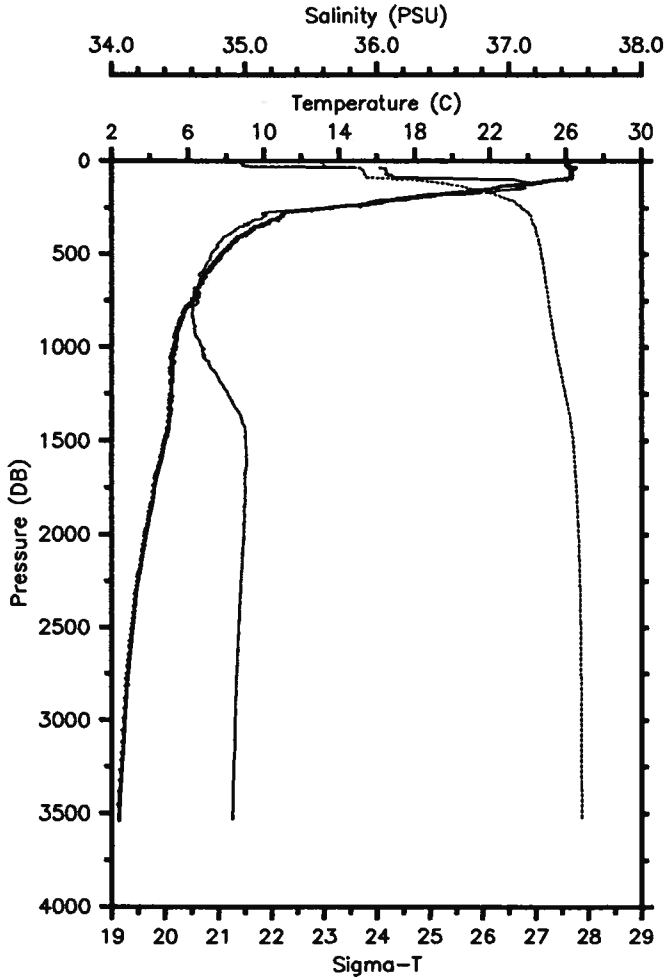
Prs	Tem	Sal	SigT
0	26.13	35.322	23.24
10	26.14	35.320	23.23
20	26.18	35.366	23.25
30	26.69	36.300	23.80
40	26.67	36.310	23.81
50	26.67	36.321	23.82
60	26.67	36.327	23.83
70	26.66	36.330	23.83
80	26.64	36.344	23.85
90	26.61	36.355	23.87
100	26.13	36.669	24.26
110	26.01	37.120	24.63
120	24.96	37.119	24.96
130	24.04	37.103	25.22
140	22.69	36.970	25.52
150	21.77	36.835	25.68
160	21.11	36.809	25.84
170	20.83	36.844	25.95
180	19.69	36.661	26.11
190	19.12	36.582	26.20
200	17.25	36.232	26.40
250	14.43	35.779	26.70
300	11.06	35.168	26.90
350	9.69	34.988	27.00
400	8.69	34.864	27.06
450	8.09	34.788	27.09
500	7.58	34.732	27.13
550	7.35	34.717	27.15
600	6.94	34.684	27.18
650	6.71	34.671	27.20
700	6.93	34.757	27.24
750	6.78	34.756	27.26
800	6.25	34.706	27.29
850	5.87	34.673	27.31
900	5.74	34.699	27.35
950	5.80	34.754	27.38
1000	5.66	34.766	27.41
1500	4.60	35.019	27.74
2000	3.49	34.978	27.82
2500	3.03	34.951	27.84
3000	2.58	34.924	27.86
3206	2.57	34.922	27.86

WHI–STACS30–88 CTD 10 WHITING
Date 03 06 88 Latitude 12.997 N
Time 0750 Z Longitude 57.501 W



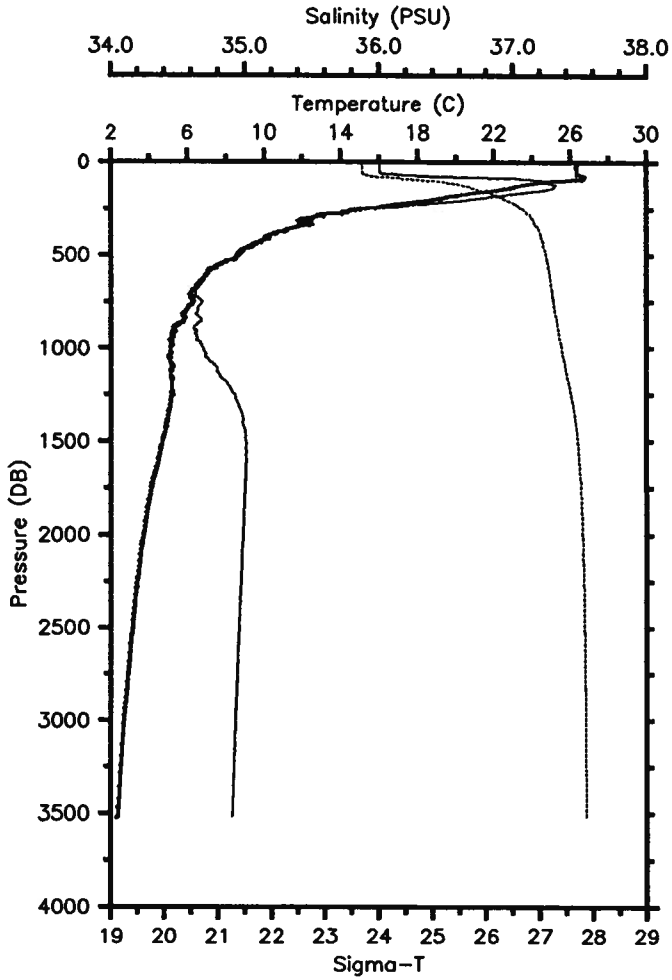
Prs	Tem	Sal	SigT
0	26.17	34.880	22.89
10	26.19	34.878	22.88
20	26.19	34.881	22.89
30	26.20	34.888	22.89
40	26.55	36.158	23.74
50	26.63	36.258	23.79
60	26.52	36.236	23.81
70	26.53	36.252	23.81
80	26.57	36.540	24.02
90	25.61	37.035	24.69
100	24.36	37.049	25.09
110	23.72	37.082	25.3C
120	22.98	37.069	25.51
130	22.33	37.000	25.64
140	21.44	36.852	25.78
150	20.50	36.695	25.92
160	20.13	36.769	26.08
170	19.19	36.591	26.19
180	17.30	36.192	26.36
190	15.72	35.951	26.55
200	13.80	35.646	26.73
250	11.08	35.161	26.89
300	10.31	35.045	26.93
350	9.59	34.954	26.99
400	8.83	34.857	27.03
450	8.41	34.832	27.08
500	7.84	34.758	27.11
550	7.52	34.726	27.13
600	7.23	34.700	27.15
650	7.09	34.714	27.18
700	6.60	34.674	27.22
750	6.21	34.640	27.24
800	5.83	34.611	27.27
850	5.49	34.589	27.29
900	5.47	34.612	27.31
950	5.31	34.617	27.33
1000	5.40	34.674	27.37
1500	4.71	35.020	27.72
2000	3.64	34.985	27.81
2500	3.00	34.950	27.85
3000	2.62	34.925	27.86
3500	2.36	34.908	27.87
3706	2.28	34.903	27.87

WHI-STACS30-88 CTD 11 WHITING
Date 03 06 88 Latitude 13.008 N
Time 1327 Z Longitude 57.007 W



Prs	Tem	Sal	SigT
0	26.17	34.971	22.96
10	26.14	34.967	22.97
20	26.07	34.985	23.00
30	26.15	35.065	23.04
40	26.48	36.067	23.69
50	26.34	36.068	23.73
60	26.28	36.070	23.76
70	26.23	36.064	23.77
80	26.27	36.117	23.79
90	26.12	36.431	24.08
100	25.29	37.059	24.81
110	24.67	37.131	25.06
120	23.89	37.188	25.33
130	23.02	37.085	25.51
140	22.35	37.088	25.71
150	21.77	37.035	25.83
160	20.81	36.897	25.99
170	19.88	36.778	26.15
180	18.63	36.489	26.26
190	18.00	36.412	26.35
200	17.16	36.273	26.45
250	13.61	35.608	26.74
300	10.89	35.148	26.91
350	9.72	34.986	26.99
400	8.91	34.868	27.03
450	8.23	34.792	27.08
500	7.77	34.748	27.11
550	7.37	34.716	27.14
600	6.92	34.665	27.17
650	6.75	34.664	27.19
700	6.39	34.638	27.22
750	6.23	34.639	27.24
800	5.85	34.608	27.26
850	5.66	34.614	27.29
900	5.46	34.619	27.32
950	5.36	34.643	27.35
1000	5.32	34.680	27.38
1500	4.80	35.007	27.70
2000	3.79	34.992	27.80
2500	3.08	34.954	27.84
3000	2.67	34.927	27.86
3500	2.38	34.908	27.87
3532	2.38	34.908	27.87

WHI-STACS30-88 CTD 12 WHITING
Date 03 06 88 Latitude 13.011 N
Time 1815 Z Longitude 56.514 W

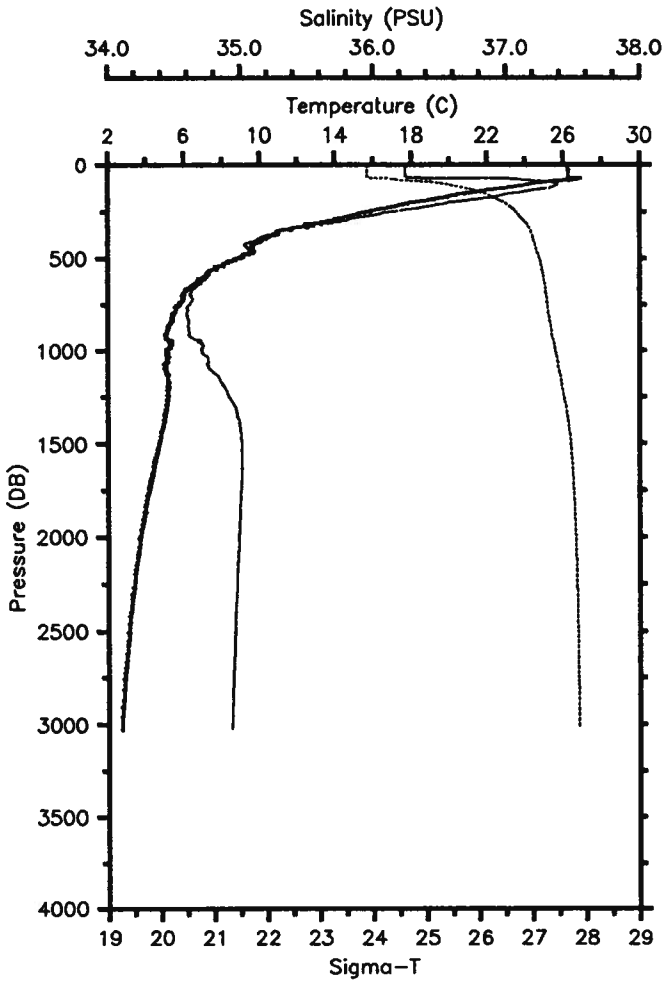


Prs	Tem	Sal	SigT
0	26.36	36.007	23.68
10	26.36	36.006	23.68
20	26.37	36.005	23.68
30	26.35	36.005	23.68
40	26.33	36.006	23.69
50	26.33	36.007	23.69
60	26.33	36.017	23.70
70	26.59	36.258	23.80
80	26.73	36.654	24.05
90	26.41	37.086	24.48
100	24.92	37.254	25.07
110	24.17	37.251	25.30
120	23.57	37.321	25.53
130	23.05	37.311	25.67
140	22.60	37.279	25.78
150	22.05	37.213	25.89
160	21.26	37.103	26.03
170	20.62	37.002	26.12
180	19.99	36.893	26.21
190	19.39	36.796	26.29
200	18.80	36.690	26.37
250	15.01	35.924	26.68
300	12.36	35.432	26.85
350	11.67	35.405	26.97
400	10.22	35.144	27.03
450	9.38	35.022	27.07
500	8.67	34.939	27.12
550	7.75	34.798	27.15
600	7.03	34.706	27.18
650	6.70	34.681	27.21
700	6.24	34.635	27.23
750	6.33	34.684	27.26
800	5.94	34.651	27.29
850	5.84	34.678	27.32
900	5.27	34.622	27.34
950	5.19	34.646	27.37
1000	5.14	34.689	27.41
1500	4.71	35.009	27.72
2000	3.72	34.986	27.80
2500	3.15	34.958	27.84
3000	2.68	34.930	27.86
3500	2.39	34.910	27.87
3516	2.37	34.908	27.87

WHI-STACS30-88 CTD 13 WHITING

Date 03 06 88 Latitude 12.986 N

Time 2322 Z Longitude 55.995 W

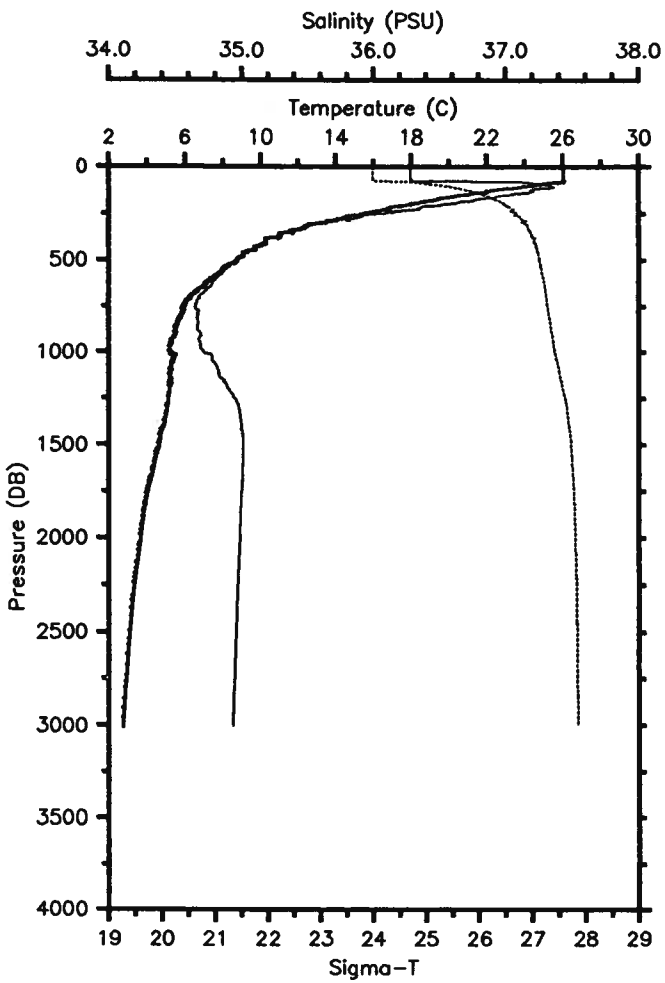


Prs	Tem	Sal	SigT
0	26.23	36.244	23.90
10	26.23	36.244	23.90
20	26.25	36.243	23.90
30	26.25	36.243	23.89
40	26.25	36.243	23.89
50	26.25	36.244	23.89
60	26.26	36.247	23.90
70	26.28	36.265	23.90
80	26.55	37.118	24.46
90	25.30	37.301	24.99
100	24.46	37.376	25.30
110	23.90	37.379	25.48
120	23.19	37.350	25.66
130	22.46	37.269	25.81
140	21.69	37.173	25.96
150	20.92	37.064	26.09
160	20.40	36.988	26.17
170	19.99	36.928	26.24
180	19.33	36.815	26.32
190	18.73	36.700	26.39
200	18.01	36.577	26.48
250	15.82	36.166	26.69
300	13.77	35.779	26.84
350	11.06	35.270	26.97
400	10.19	35.125	27.02
450	9.58	35.062	27.07
500	8.83	34.980	27.13
550	7.77	34.833	27.18
600	7.12	34.753	27.21
650	6.41	34.673	27.24
700	5.95	34.620	27.26
750	5.77	34.621	27.28
800	5.50	34.599	27.30
850	5.32	34.616	27.33
900	5.14	34.620	27.36
950	5.25	34.683	27.39
1000	5.16	34.708	27.43
1500	4.71	35.010	27.72
2000	3.73	34.988	27.80
2500	3.11	34.956	27.84
3000	2.72	34.932	27.86
3022	2.71	34.932	27.86

WHI-STACS30-88 CTD 14 WHITING

Date 03 07 88 Latitude 12.999 N

Time 0355 Z Longitude 55.499 W

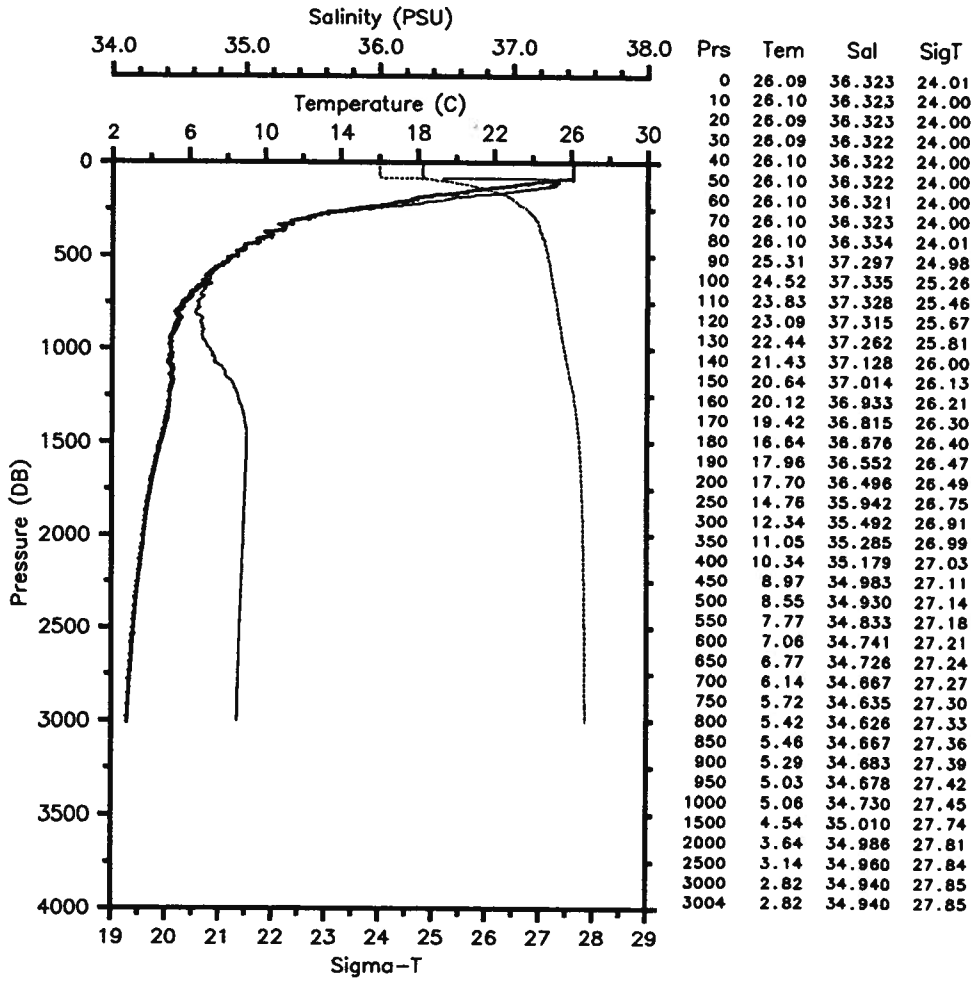


Prs	Tem	Sal	SigT
0	26.04	36.284	23.99
10	26.04	36.283	23.99
20	26.04	36.284	23.99
30	26.04	36.284	23.99
40	26.04	36.284	23.99
50	26.05	36.283	23.99
60	26.05	36.283	23.99
70	26.05	36.289	23.99
80	25.96	37.104	24.64
90	25.18	37.235	24.98
100	24.50	37.333	25.26
110	23.66	37.357	25.53
120	22.72	37.226	25.71
130	22.02	37.196	25.88
140	21.58	37.147	25.97
150	20.87	37.043	26.09
160	20.15	36.920	26.19
170	19.50	36.830	26.29
180	19.05	36.762	26.36
190	18.44	36.638	26.42
200	18.00	36.564	26.47
250	15.53	36.087	26.69
300	13.19	35.851	26.86
350	11.71	35.402	26.96
400	10.32	35.176	27.04
450	9.39	35.048	27.09
500	8.77	34.975	27.14
550	8.00	34.873	27.17
600	7.38	34.808	27.21
650	6.91	34.758	27.24
700	6.27	34.677	27.26
750	5.94	34.653	27.29
800	5.83	34.672	27.31
850	5.61	34.673	27.34
900	5.49	34.691	27.37
950	5.28	34.688	27.39
1000	5.20	34.707	27.42
1500	4.64	35.013	27.73
2000	3.66	34.987	27.81
2500	3.09	34.958	27.84
3000	2.74	34.934	27.86
3002	2.74	34.934	27.86

WHI-STACS30-88 CTD 15 WHITING

Date 03 07 88 Latitude 13.000 N

Time 0852 Z Longitude 55.002 W

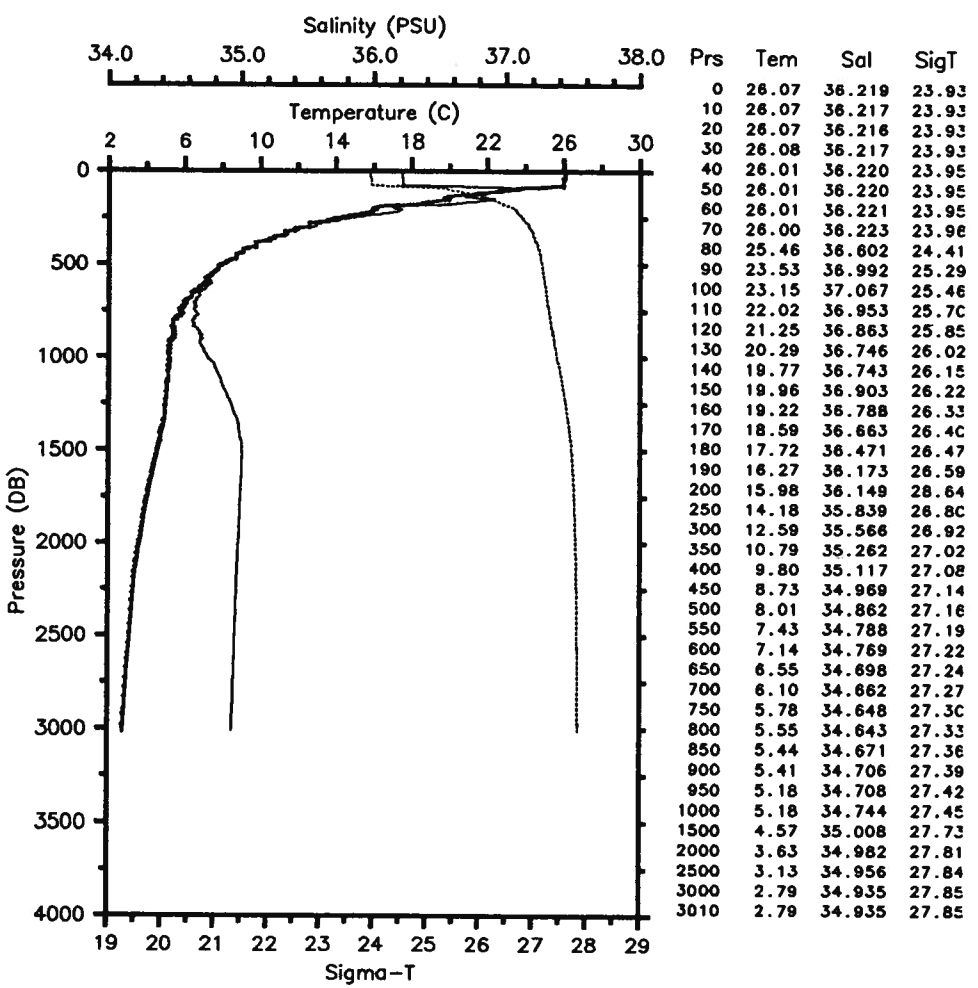


Prs	Tem	Sal	SigT
0	26.09	36.323	24.01
10	26.10	36.323	24.00
20	26.09	36.323	24.00
30	26.09	36.322	24.00
40	26.10	36.322	24.00
50	26.10	36.322	24.00
60	26.10	36.321	24.00
70	26.10	36.323	24.00
80	26.10	36.334	24.01
90	25.31	37.297	24.98
100	24.52	37.335	25.26
110	23.83	37.328	25.46
120	23.09	37.315	25.67
130	22.44	37.262	25.81
140	21.43	37.128	26.00
150	20.64	37.014	26.13
160	20.12	36.933	26.21
170	19.42	36.815	26.30
180	16.64	36.876	26.40
190	17.96	36.552	26.47
200	17.70	36.496	26.49
250	14.76	35.942	26.75
300	12.34	35.492	26.91
350	11.05	35.285	26.99
400	10.34	35.179	27.03
450	8.97	34.983	27.11
500	8.55	34.930	27.14
550	7.77	34.833	27.18
600	7.06	34.741	27.21
650	6.77	34.726	27.24
700	6.14	34.667	27.27
750	5.72	34.635	27.30
800	5.42	34.626	27.33
850	5.46	34.667	27.36
900	5.29	34.683	27.39
950	5.03	34.678	27.42
1000	5.06	34.730	27.45
1500	4.54	35.010	27.74
2000	3.64	34.986	27.81
2500	3.14	34.960	27.84
3000	2.82	34.940	27.85
3004	2.82	34.940	27.85

WHI-STACS30-88 CTD 16 WHITING

Date 03 07 88 Latitude 13.006 N

Time 1627 Z Longitude 53.992 W

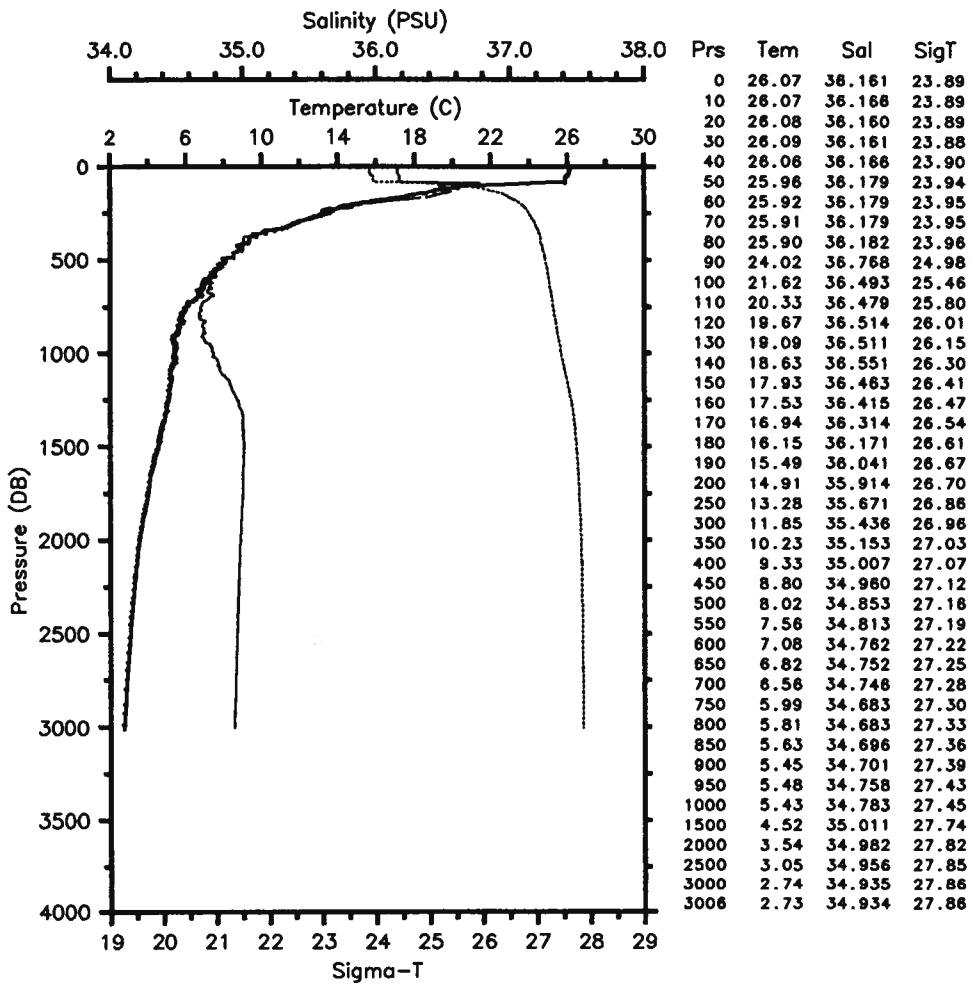


Prs	Tem	Sal	SigT
0	26.07	36.219	23.93
10	26.07	36.217	23.93
20	26.07	36.216	23.93
30	26.08	36.217	23.93
40	26.01	36.220	23.95
50	26.01	36.220	23.95
60	26.01	36.221	23.95
70	26.00	36.223	23.96
80	25.46	36.602	24.41
90	23.53	36.992	25.29
100	23.15	37.067	25.46
110	22.02	36.953	25.70
120	21.25	36.863	25.85
130	20.29	36.746	26.02
140	19.77	36.743	26.15
150	19.96	36.903	26.22
160	19.22	36.788	26.33
170	18.59	36.663	26.40
180	17.72	36.471	26.47
190	16.27	36.173	26.59
200	15.98	36.149	26.64
250	14.18	35.839	26.80
300	12.59	35.566	26.92
350	10.79	35.262	27.02
400	9.80	35.117	27.08
450	8.73	34.969	27.14
500	8.01	34.862	27.16
550	7.43	34.788	27.19
600	7.14	34.769	27.22
650	6.55	34.698	27.24
700	6.10	34.662	27.27
750	5.78	34.648	27.30
800	5.55	34.643	27.33
850	5.44	34.671	27.36
900	5.41	34.706	27.39
950	5.18	34.708	27.42
1000	5.18	34.744	27.45
1500	4.57	35.008	27.73
2000	3.63	34.982	27.81
2500	3.13	34.956	27.84
3000	2.79	34.935	27.85
3010	2.79	34.935	27.85

WHI-STACS30-88 CTD 17 WHITING

Date 03 07 88 Latitude 13.007 N

Time 2358 Z Longitude 52.996 W

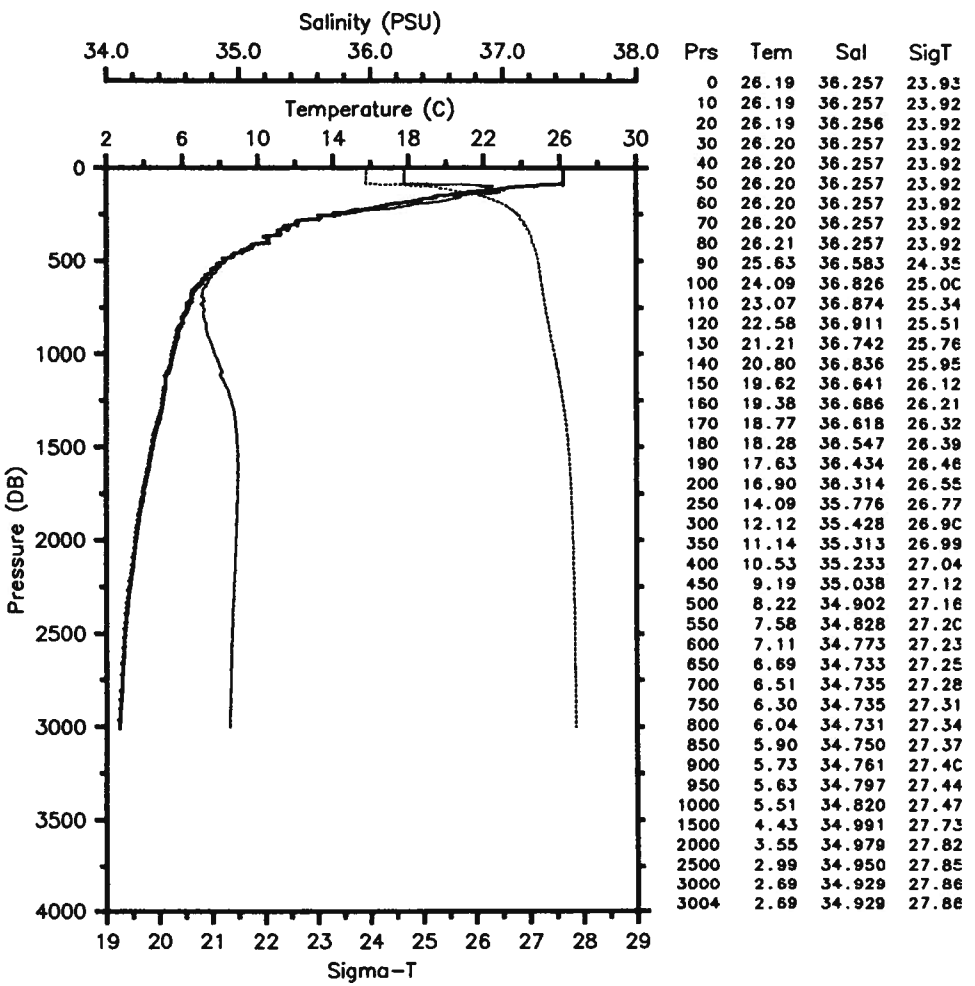


Prs	Tem	Sal	SigT
0	26.07	36.161	23.89
10	26.07	36.166	23.89
20	26.08	36.160	23.89
30	26.09	36.161	23.88
40	26.06	36.166	23.90
50	25.96	36.179	23.94
60	25.92	36.179	23.95
70	25.91	36.179	23.95
80	25.90	36.182	23.96
90	24.02	36.768	24.98
100	21.62	36.493	25.46
110	20.33	36.479	25.80
120	19.67	36.514	26.01
130	19.09	36.511	26.15
140	18.63	36.551	26.30
150	17.93	36.463	26.41
160	17.53	36.415	26.47
170	16.94	36.314	26.54
180	16.15	36.171	26.61
190	15.49	36.041	26.67
200	14.91	35.914	26.70
250	13.28	35.671	26.86
300	11.85	35.436	26.96
350	10.23	35.153	27.03
400	9.33	35.007	27.07
450	8.80	34.960	27.12
500	8.02	34.853	27.18
550	7.56	34.813	27.19
600	7.08	34.762	27.22
650	6.82	34.752	27.25
700	6.56	34.748	27.28
750	5.99	34.683	27.30
800	5.81	34.683	27.33
850	5.63	34.696	27.36
900	5.45	34.701	27.39
950	5.48	34.758	27.43
1000	5.43	34.783	27.45
1500	4.52	35.011	27.74
2000	3.54	34.982	27.82
2500	3.05	34.956	27.85
3000	2.74	34.935	27.86
3006	2.73	34.934	27.86

WHI-STACS30-88 CTD 18 WHITING

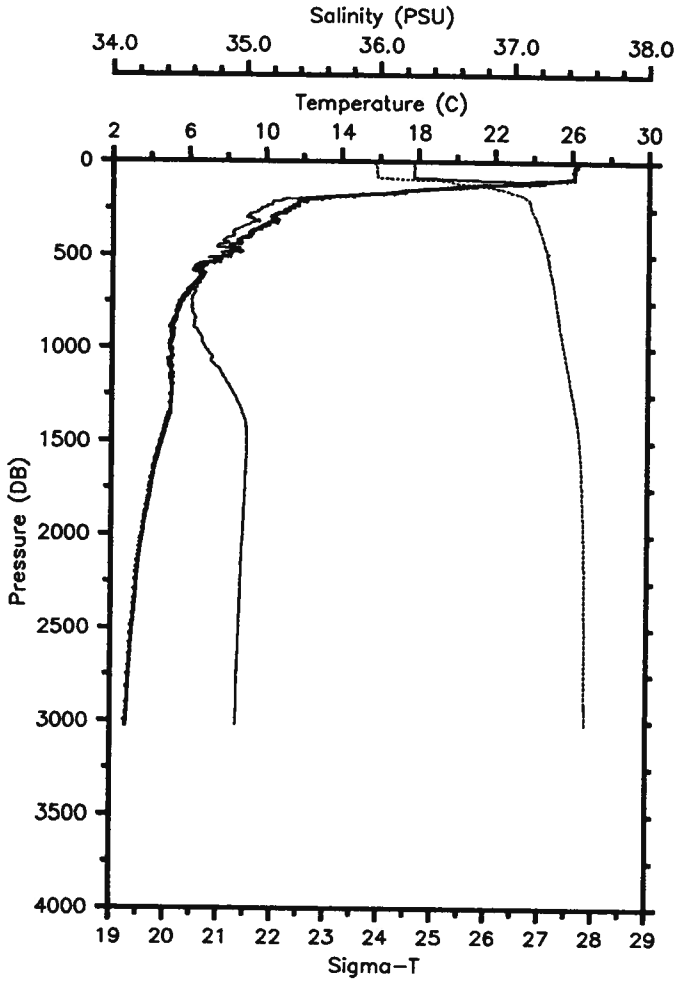
Date 03 08 88 Latitude 12.667 N

Time 0715 Z Longitude 52.375 W



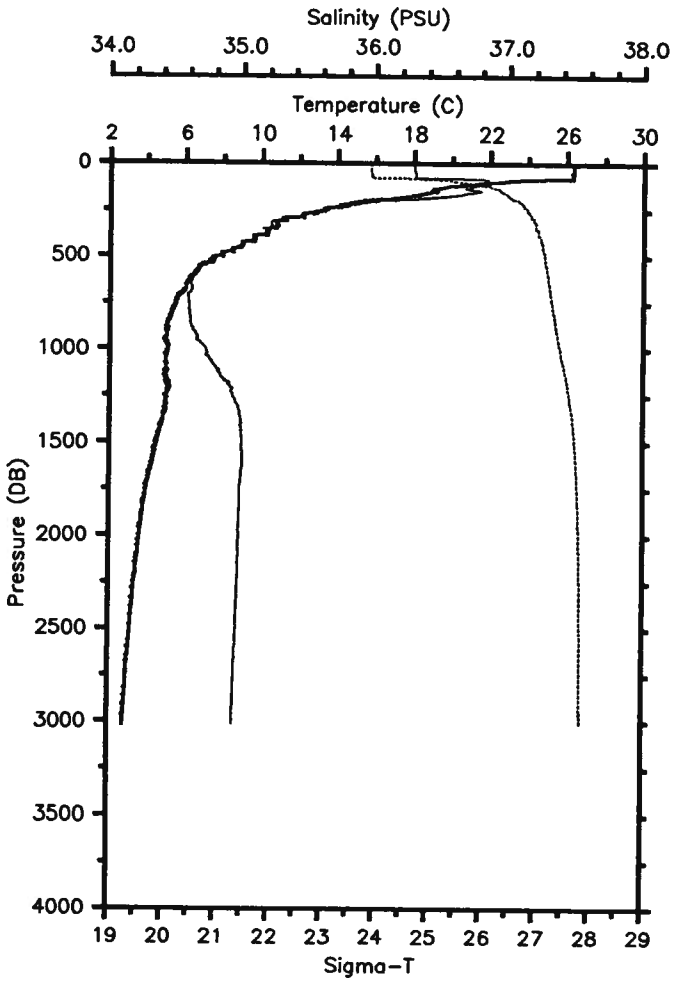
Prs	Tem	Sal	SigT
0	26.19	36.257	23.93
10	26.19	36.257	23.92
20	26.19	36.256	23.92
30	26.20	36.257	23.92
40	26.20	36.257	23.92
50	26.20	36.257	23.92
60	26.20	36.257	23.92
70	26.20	36.257	23.92
80	26.21	36.257	23.92
90	25.63	36.583	24.35
100	24.09	36.826	25.00
110	23.07	36.874	25.34
120	22.58	36.911	25.51
130	21.21	36.742	25.76
140	20.80	36.836	25.95
150	19.62	36.641	26.12
160	19.38	36.686	26.21
170	18.77	36.618	26.32
180	18.28	36.547	26.39
190	17.63	36.434	26.46
200	16.90	36.314	26.55
250	14.09	35.776	26.77
300	12.12	35.428	26.90
350	11.14	35.313	26.99
400	10.53	35.233	27.04
450	9.19	35.038	27.12
500	8.22	34.902	27.16
550	7.58	34.828	27.20
600	7.11	34.773	27.23
650	6.69	34.733	27.25
700	6.51	34.735	27.28
750	6.30	34.735	27.31
800	6.04	34.731	27.34
850	5.90	34.750	27.37
900	5.73	34.761	27.40
950	5.63	34.797	27.44
1000	5.51	34.820	27.47
1500	4.43	34.991	27.73
2000	3.55	34.979	27.82
2500	2.99	34.950	27.85
3000	2.69	34.929	27.86
3004	2.69	34.929	27.86

WHI-STACS30-88 CTD 19 WHITING
Date 03 08 88 Latitude 11.410 N
Time 1527 Z Longitude 51.787 W



Prs	Tem	Sal	SigT
0	26.25	36.256	23.91
10	26.26	36.253	23.90
20	26.18	36.254	23.92
30	26.13	36.256	23.94
40	26.12	36.255	23.94
50	26.12	36.254	23.95
60	26.11	36.254	23.95
70	26.11	36.253	23.95
80	26.11	36.255	23.95
90	25.72	36.451	24.22
100	23.98	37.074	25.22
110	23.78	37.205	25.38
120	21.57	36.826	25.73
130	20.29	36.723	26.00
140	19.28	36.580	26.16
150	17.83	36.315	26.32
160	16.96	36.188	26.44
170	16.28	36.135	26.56
180	14.64	35.782	26.66
190	13.40	35.524	26.72
200	12.19	35.275	26.77
250	11.26	35.112	26.82
300	10.35	35.004	26.89
350	9.79	34.967	26.96
400	9.18	34.908	27.02
450	8.27	34.789	27.07
500	8.14	34.835	27.12
550	6.90	34.648	27.16
600	6.78	34.672	27.19
650	6.39	34.652	27.23
700	6.00	34.623	27.25
750	5.61	34.595	27.28
800	5.45	34.603	27.31
850	5.27	34.616	27.34
900	5.19	34.636	27.36
950	5.15	34.672	27.40
1000	5.04	34.696	27.43
1500	4.60	35.012	27.73
2000	3.62	34.985	27.81
2500	3.10	34.958	27.84
3000	2.81	34.938	27.85
3020	2.79	34.938	27.85

WHI-STACS30-88 CTD 20 WHITING
Date 03 08 88 Latitude 10.571 N
Time 2310 Z Longitude 51.190 W

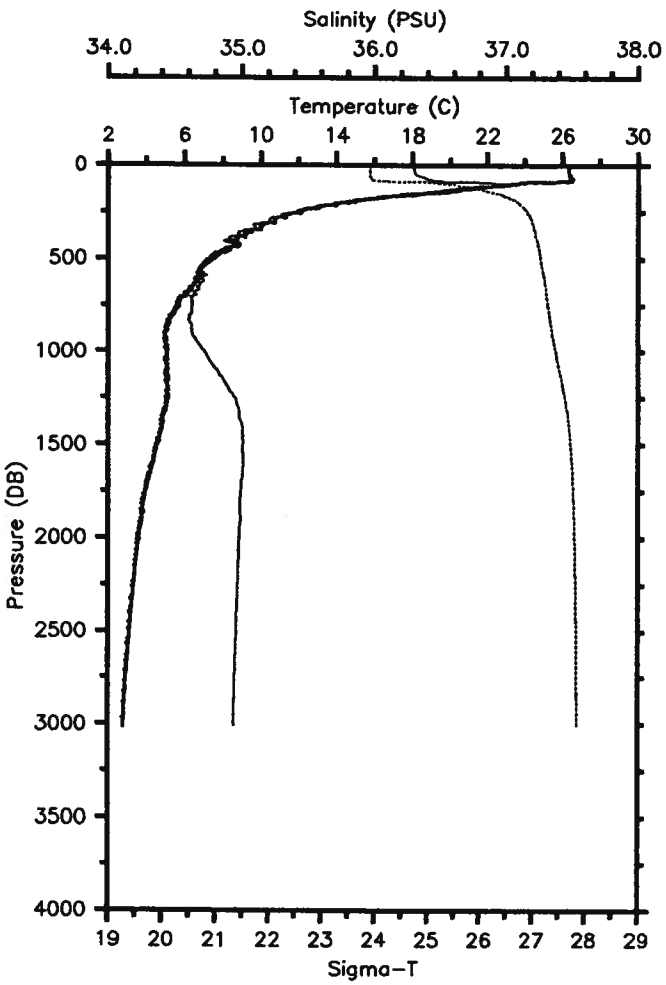


Prs	Tem	Sal	SigT
0	26.30	36.258	23.89
10	26.33	36.286	23.9C
20	26.33	36.286	23.9C
30	26.34	36.288	23.9C
40	26.33	36.291	23.91
50	26.31	36.295	23.91
60	26.31	36.295	23.92
70	26.30	36.297	23.92
80	24.48	36.791	24.8E
90	22.92	36.814	25.34
100	21.85	36.845	25.67
110	21.11	36.843	25.87
120	19.89	36.731	26.11
130	19.41	36.701	26.22
140	19.01	36.701	26.32
150	19.00	36.759	26.37
160	18.50	36.669	26.43
170	18.12	36.600	26.47
180	17.41	36.443	26.53
190	16.69	36.279	26.57
200	15.40	36.033	26.68
250	13.28	35.641	26.83
300	11.27	35.287	26.95
350	10.39	35.146	27.0C
400	9.60	35.075	27.08
450	8.86	34.964	27.11
500	7.93	34.833	27.15
550	6.78	34.670	27.19
600	6.46	34.648	27.21
650	6.01	34.609	27.24
700	5.79	34.602	27.27
750	5.49	34.594	27.3C
800	5.27	34.598	27.32
850	5.08	34.604	27.35
900	4.97	34.628	27.38
950	4.90	34.654	27.41
1000	5.06	34.723	27.45
1500	4.47	34.996	27.73
2000	3.60	34.976	27.81
2500	3.16	34.961	27.84
3000	2.82	34.938	27.85
3012	2.81	34.939	27.85

WHI–STACS30–88 CTD 21 WHITING

Date 03 09 88 Latitude 9.783 N

Time 0645 Z Longitude 50.583 W

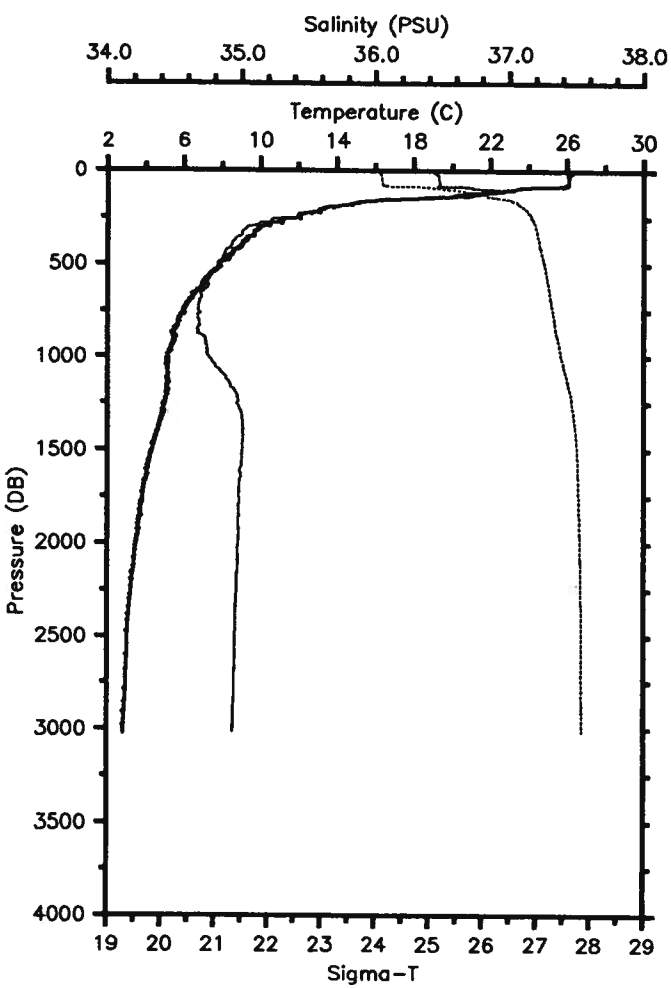


Prs	Tem	Sal	SigT
0	26.33	36.300	23.91
10	26.33	36.299	23.91
20	26.33	36.300	23.91
30	26.34	36.300	23.91
40	26.34	36.305	23.91
50	26.36	36.311	23.91
60	26.43	36.356	23.92
70	26.49	36.395	23.94
80	26.45	36.442	23.98
90	23.97	36.826	25.03
100	23.11	37.008	25.43
110	22.13	36.937	25.65
120	20.93	36.804	25.89
130	20.02	36.697	26.05
140	19.31	36.598	26.16
150	18.03	36.401	26.34
160	17.36	36.325	26.45
170	16.30	36.115	26.54
180	15.63	36.012	26.61
190	14.96	35.903	26.68
200	14.62	35.845	26.71
250	12.11	35.425	26.90
300	10.75	35.209	26.98
350	9.54	35.020	27.05
400	8.76	34.908	27.09
450	8.31	34.876	27.13
500	7.46	34.743	27.15
550	6.89	34.686	27.19
600	6.74	34.705	27.22
650	6.40	34.679	27.25
700	6.06	34.655	27.27
750	5.66	34.627	27.30
800	5.39	34.617	27.33
850	5.16	34.620	27.36
900	4.98	34.627	27.38
950	4.99	34.669	27.41
1000	5.05	34.718	27.45
1500	4.55	35.008	27.73
2000	3.58	34.980	27.81
2500	3.10	34.958	27.84
3000	2.79	34.938	27.86
3008	2.78	34.938	27.86

WHI–STACS30–88 CTD 22 WHITING

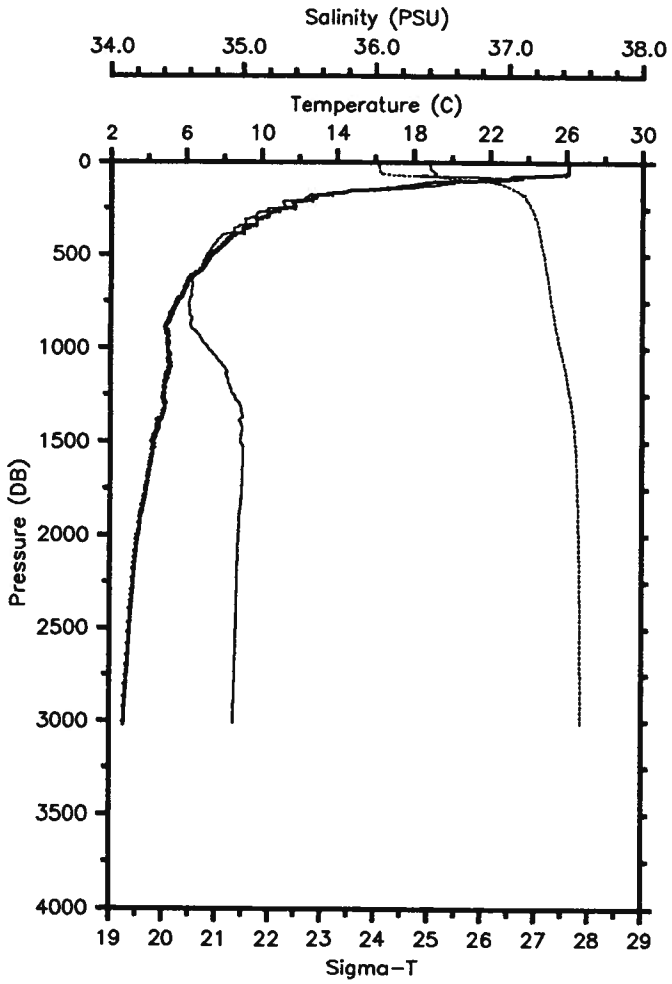
Date 03 09 88 Latitude 8.964 N

Time 1420 Z Longitude 49.959 W



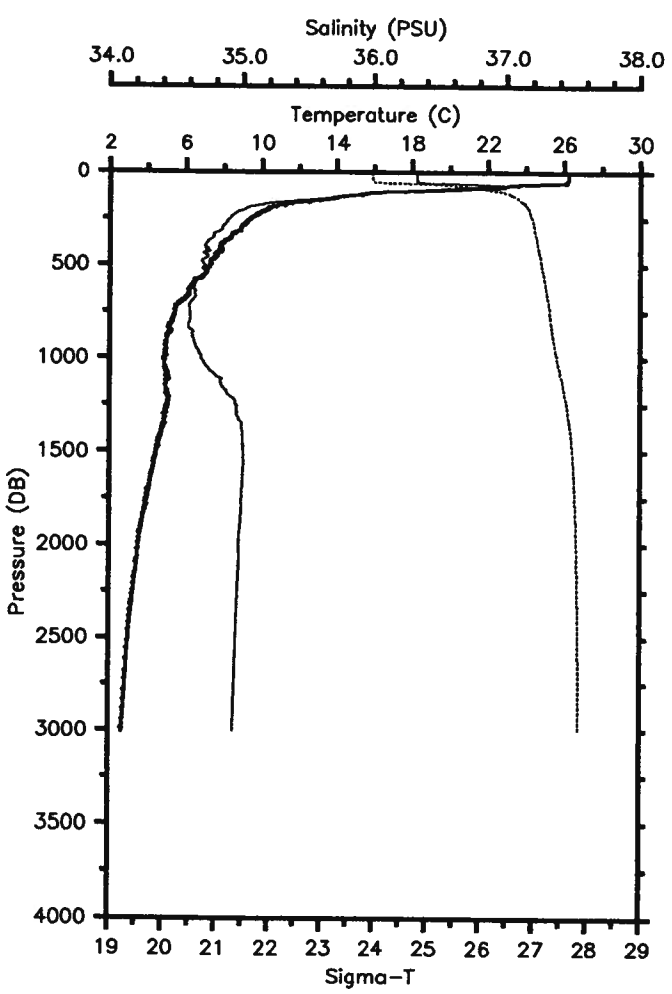
Prs	Tem	Sal	SigT
0	26.27	36.435	24.03
10	26.13	36.446	24.08
20	26.12	36.459	24.10
30	26.11	36.473	24.11
40	26.10	36.473	24.12
50	26.09	36.474	24.12
60	26.08	36.477	24.12
70	26.05	36.479	24.14
80	25.84	36.482	24.20
90	23.64	36.733	25.06
100	23.13	36.925	25.36
110	22.01	36.960	25.71
120	21.15	36.852	25.87
130	20.18	36.756	26.05
140	19.37	36.605	26.15
150	17.51	36.307	26.39
160	16.07	36.039	26.53
170	15.16	35.900	26.63
180	14.80	35.842	26.67
190	14.09	35.716	26.72
200	13.44	35.602	26.77
250	12.10	35.421	26.90
300	10.02	35.049	26.99
350	9.63	35.000	27.01
400	9.05	34.929	27.06
450	8.49	34.874	27.10
500	7.89	34.820	27.15
550	7.44	34.776	27.18
600	7.02	34.744	27.21
650	6.66	34.717	27.24
700	6.27	34.687	27.27
750	5.99	34.681	27.30
800	5.76	34.679	27.33
850	5.51	34.673	27.36
900	5.54	34.733	27.40
950	5.34	34.743	27.43
1000	5.14	34.753	27.46
1500	4.34	35.010	27.76
2000	3.48	34.976	27.82
2500	3.04	34.956	27.85
3000	2.83	34.941	27.85
3018	2.82	34.941	27.85

WHI-STACS30-88 CTD 23 WHITING
Date 03 09 88 Latitude 8.147 N
Time 2127 Z Longitude 49.380 W



Prs	Tem	Sal	SigT
0	26.11	36.398	24.06
10	26.10	36.407	24.07
20	26.10	36.408	24.07
30	26.10	36.409	24.07
40	26.09	36.413	24.07
50	26.11	36.437	24.09
60	26.04	36.455	24.12
70	24.64	36.346	24.47
80	23.39	36.853	25.23
90	23.07	37.082	25.49
100	21.14	36.888	25.89
110	18.57	36.457	26.25
120	18.10	36.493	26.39
130	17.54	36.377	26.44
140	16.75	36.250	26.53
150	15.80	36.035	26.59
160	14.53	35.776	26.67
170	13.73	35.639	26.74
180	12.91	35.505	26.80
190	12.85	35.495	26.81
200	12.70	35.463	26.81
250	11.34	35.243	26.90
300	10.01	35.058	27.00
350	9.32	34.967	27.04
400	8.38	34.835	27.09
450	7.90	34.778	27.11
500	7.34	34.727	27.16
550	7.03	34.700	27.18
600	6.53	34.651	27.21
650	6.08	34.622	27.24
700	5.87	34.614	27.26
750	5.57	34.601	27.29
800	5.32	34.603	27.32
850	5.16	34.619	27.35
900	4.95	34.627	27.39
950	5.06	34.688	27.42
1000	5.06	34.740	27.46
1500	4.25	34.988	27.75
2000	3.48	34.973	27.82
2500	3.05	34.957	27.85
3000	2.77	34.938	27.86
3014	2.77	34.937	27.86

WHI-STACS30-88 CTD 24 WHITING
Date 03 10 88 Latitude 7.595 N
Time 0346 Z Longitude 48.936 W

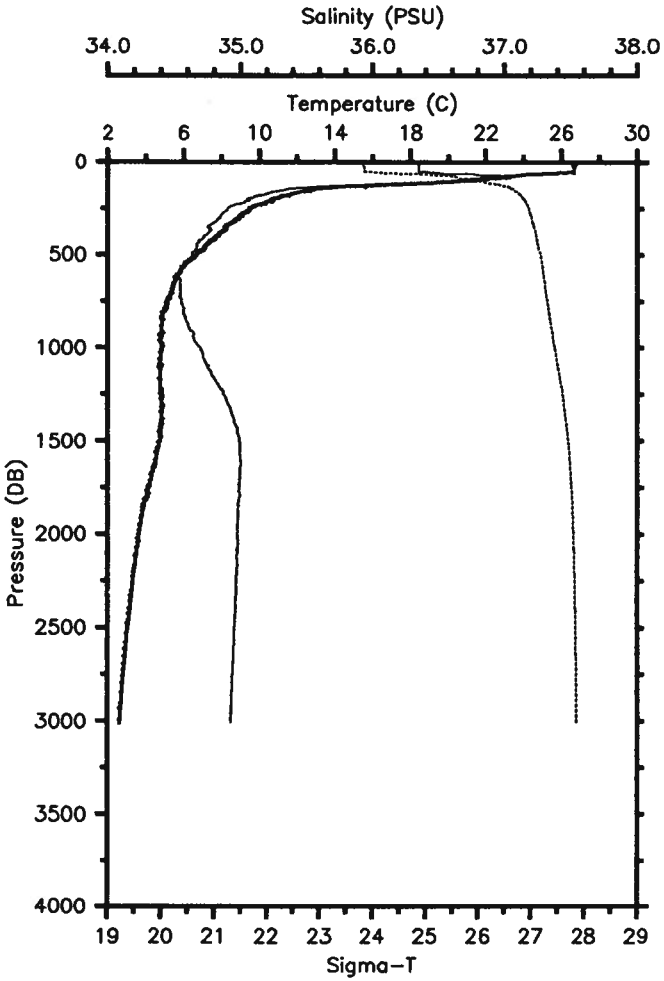


Prs	Tem	Sal	SigT
0	26.22	36.323	23.97
10	26.23	36.322	23.96
20	26.23	36.322	23.96
30	26.23	36.322	23.96
40	26.19	36.323	23.97
50	26.15	36.326	23.99
60	25.03	36.571	24.52
70	23.23	37.083	25.45
80	21.51	36.934	25.83
90	20.37	36.807	26.04
100	18.54	36.479	26.27
110	16.35	36.055	26.48
120	15.40	35.888	26.57
130	14.49	35.742	26.66
140	13.99	35.664	26.70
150	13.28	35.514	26.74
160	12.52	35.368	26.77
170	11.40	35.186	26.85
180	10.84	35.094	26.88
190	10.47	35.043	26.90
200	10.34	35.020	26.91
250	9.39	34.900	26.98
300	8.92	34.845	27.01
350	8.37	34.781	27.05
400	7.82	34.715	27.08
450	7.65	34.739	27.12
500	7.28	34.713	27.15
550	7.01	34.713	27.19
600	6.38	34.642	27.22
650	6.15	34.639	27.25
700	5.73	34.613	27.28
750	5.43	34.601	27.31
800	5.30	34.602	27.32
850	5.17	34.614	27.35
900	5.00	34.629	27.38
950	4.95	34.658	27.41
1000	4.87	34.687	27.44
1500	4.47	35.006	27.74
2000	3.52	34.974	27.81
2500	3.02	34.955	27.85
3000	2.70	34.935	27.86
3004	2.69	34.935	27.86

WHI-STACS30-88 CTD 25 WHITING

Date 03 10 88 Latitude 7.001 N

Time 0945 Z Longitude 48.485 W

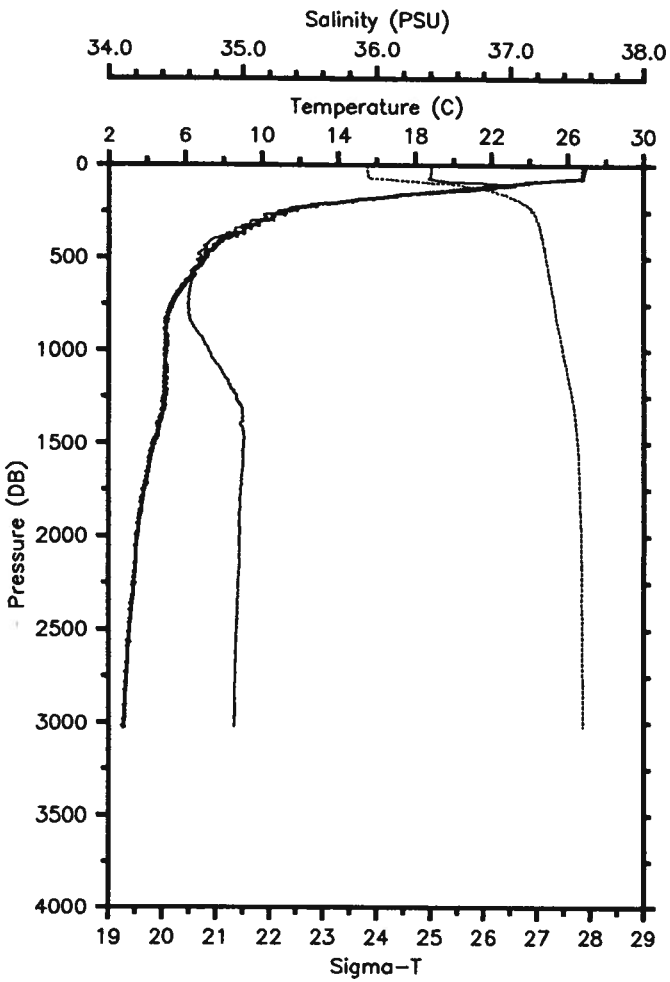


Prs	Tem	Sal	SigT
0	26.76	36.352	23.81
10	26.77	36.353	23.81
20	26.69	36.351	23.84
30	26.67	36.350	23.84
40	26.67	36.350	23.84
50	26.67	36.350	23.84
60	25.39	36.526	24.38
70	23.82	36.967	25.19
80	22.68	37.052	25.59
90	21.54	36.936	25.82
100	20.42	36.822	26.04
110	19.17	36.538	26.15
120	17.20	36.192	26.38
130	14.78	35.702	26.56
140	13.60	35.447	26.62
150	12.79	35.326	26.69
160	12.19	35.245	26.74
170	11.80	35.197	26.78
180	11.34	35.133	26.82
190	11.05	35.096	26.84
200	10.68	35.050	26.87
250	9.51	34.903	26.96
300	8.92	34.842	27.01
350	8.19	34.760	27.06
400	7.71	34.723	27.10
450	7.18	34.673	27.14
500	6.66	34.634	27.18
550	6.07	34.578	27.21
600	5.76	34.554	27.23
650	5.50	34.549	27.26
700	5.35	34.547	27.28
750	5.15	34.558	27.31
800	4.98	34.572	27.34
850	4.87	34.593	27.37
900	4.82	34.615	27.39
950	4.78	34.646	27.42
1000	4.86	34.701	27.45
1500	4.74	34.993	27.70
2000	3.63	34.979	27.81
2500	3.05	34.955	27.85
3000	2.63	34.929	27.86
3006	2.62	34.929	27.86

WHI-STACS30-88 CTD 26 WHITING

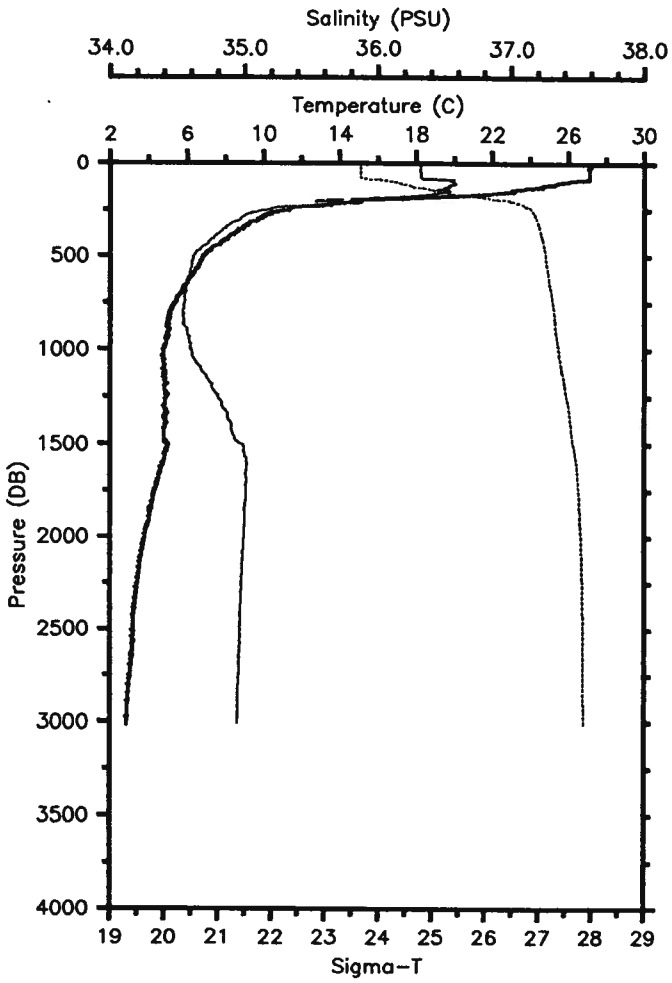
Date 03 10 88 Latitude 7.953 N

Time 2158 Z Longitude 50.259 W



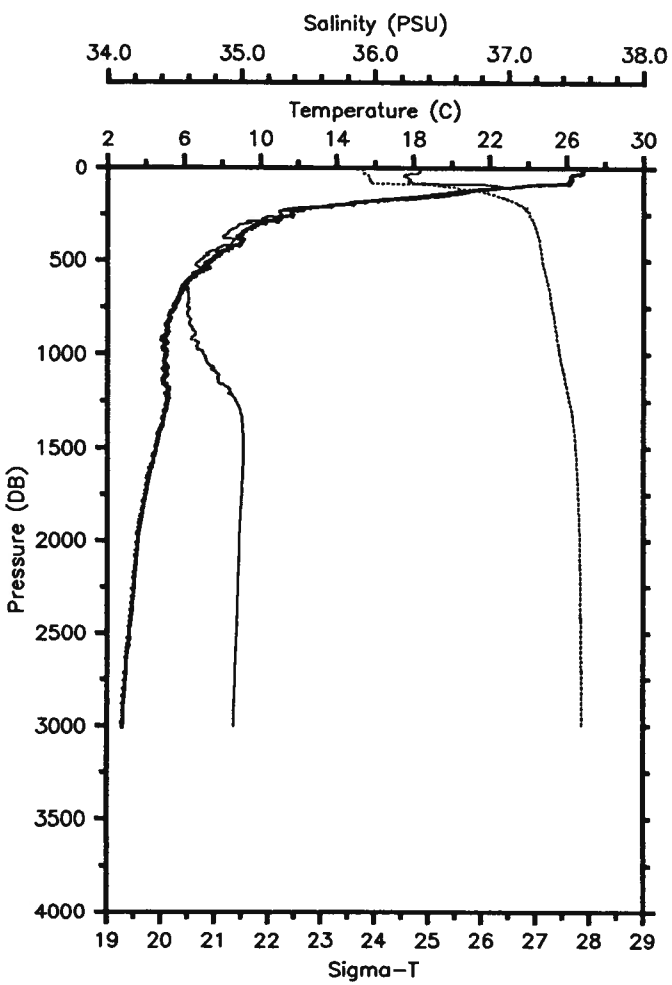
Prs	Tem	Sal	SigT
0	26.83	36.409	23.83
10	26.85	36.408	23.83
20	26.85	36.407	23.83
30	26.85	36.407	23.83
40	26.82	36.405	23.84
50	26.80	36.402	23.84
60	26.79	36.399	23.84
70	26.73	36.391	23.85
80	25.26	36.444	24.36
90	24.07	36.539	24.79
100	23.24	36.920	25.32
110	22.43	37.031	25.64
120	21.30	36.909	25.87
130	20.37	36.808	26.04
140	19.31	36.605	26.17
150	18.34	36.437	26.29
160	17.14	36.220	26.42
170	16.61	36.144	26.49
180	15.90	36.045	26.58
190	14.78	35.840	26.67
200	14.19	35.727	26.71
250	11.19	35.264	26.95
300	10.17	35.108	27.01
350	9.08	34.943	27.08
400	8.04	34.780	27.10
450	7.52	34.733	27.13
500	7.08	34.689	27.16
550	6.66	34.653	27.19
600	6.39	34.645	27.22
650	5.94	34.611	27.25
700	5.58	34.599	27.29
750	5.26	34.590	27.32
800	5.11	34.596	27.34
850	5.02	34.620	27.37
900	4.97	34.659	27.41
950	5.02	34.712	27.44
1000	4.98	34.747	27.48
1500	4.37	35.010	27.76
2000	3.50	34.979	27.82
2500	3.08	34.957	27.84
3000	2.79	34.939	27.86
3020	2.77	34.938	27.86

WHI-STACS30-88 CTD 27 WHITING
Date 03 11 88 Latitude 8.903 N
Time 1107 Z Longitude 52.086 W



Prs	Tem	Sal	SigT
0	27.20	36.322	23.65
10	27.19	36.319	23.65
20	27.13	36.318	23.67
30	27.11	36.318	23.68
40	27.11	36.318	23.68
50	27.10	36.318	23.68
60	27.10	36.318	23.68
70	27.10	36.318	23.68
80	27.10	36.325	23.69
90	26.34	36.530	24.08
100	25.79	36.572	24.29
110	25.34	36.590	24.44
120	24.66	36.532	24.60
130	24.25	36.506	24.71
140	23.32	36.472	24.96
150	23.06	36.538	25.09
160	22.21	36.464	25.27
170	21.13	36.353	25.49
180	19.11	36.141	25.87
190	17.42	35.900	26.11
200	14.73	35.549	26.46
250	11.35	35.200	26.87
300	9.74	34.968	26.97
350	8.94	34.864	27.02
400	8.15	34.772	27.07
450	7.40	34.688	27.12
500	6.86	34.623	27.14
550	6.61	34.605	27.16
600	6.29	34.590	27.19
650	5.95	34.565	27.22
700	5.66	34.558	27.25
750	5.38	34.551	27.27
800	5.11	34.538	27.30
850	5.00	34.545	27.31
900	5.04	34.573	27.33
950	4.91	34.586	27.36
1000	4.76	34.597	27.38
1500	4.97	34.976	27.66
2000	3.79	34.995	27.80
2500	3.18	34.965	27.84
3000	2.86	34.946	27.86
3008	2.85	34.946	27.86

WHI-STACS30-88 CTD 28 WHITING
Date 03 11 88 Latitude 9.890 N
Time 2338 Z Longitude 53.887 W

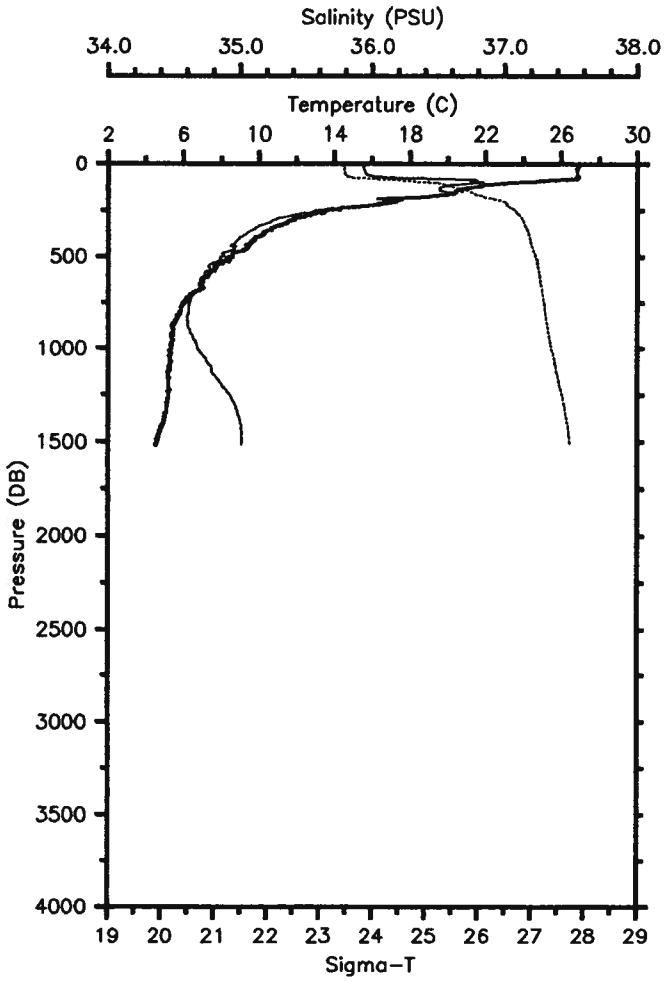


Prs	Tem	Sal	SigT
0	26.84	36.337	23.78
10	26.85	36.336	23.77
20	26.86	36.335	23.77
30	26.74	36.315	23.79
40	26.25	36.218	23.87
50	26.24	36.239	23.89
60	26.25	36.261	23.91
70	26.19	36.248	23.92
80	26.16	36.277	23.95
90	24.58	36.875	24.89
100	23.35	36.997	25.35
110	22.21	36.933	25.63
120	21.10	36.786	25.83
130	20.19	36.711	26.02
140	19.40	36.637	26.17
150	18.70	36.538	26.28
160	17.72	36.381	26.40
170	16.84	36.216	26.49
180	15.51	35.972	26.61
190	14.81	35.843	26.66
200	14.24	35.744	26.71
250	11.68	35.300	26.88
300	10.24	35.071	26.97
350	9.09	34.901	27.03
400	9.01	34.934	27.06
450	8.10	34.781	27.09
500	7.42	34.694	27.12
550	7.15	34.698	27.16
600	6.33	34.600	27.19
650	5.97	34.600	27.24
700	5.77	34.607	27.27
750	5.47	34.597	27.30
800	5.22	34.600	27.33
850	5.06	34.616	27.36
900	5.10	34.655	27.39
950	4.98	34.673	27.42
1000	5.05	34.717	27.45
1500	4.53	35.018	27.74
2000	3.58	34.988	27.82
2500	3.17	34.967	27.84
3000	2.80	34.943	27.86
3002	2.80	34.943	27.86

WHI–STACS30–88 CTD 29 WHITING

Date 03 12 88 Latitude 10.898 N

Time 1158 Z Longitude 55.656 W

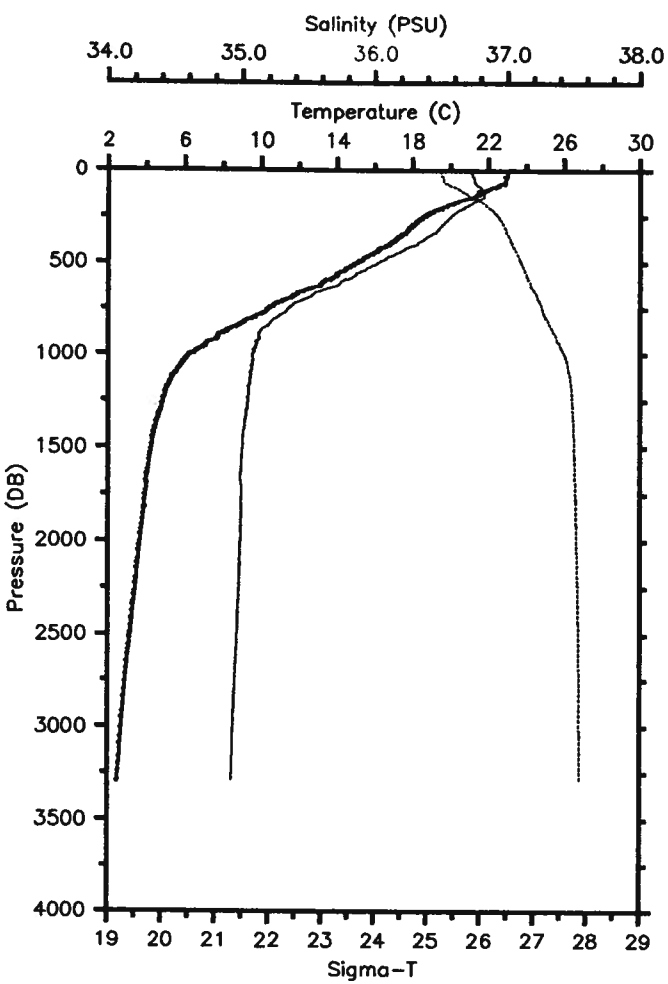


Prs	Tem	Sal	SigT
0	26.96	35.937	23.44
10	26.92	35.936	23.45
20	26.86	35.934	23.47
30	26.85	35.937	23.48
40	26.84	35.944	23.48
50	26.84	35.949	23.49
60	26.85	35.973	23.50
70	26.84	36.068	23.58
80	26.69	36.527	23.97
90	25.13	36.751	24.63
100	23.52	36.795	25.14
110	22.25	36.632	25.39
120	21.68	36.576	25.51
130	21.01	36.521	25.65
140	20.54	36.509	25.77
150	20.38	36.566	25.86
160	20.19	36.598	25.93
170	19.50	36.496	26.04
180	18.44	36.261	26.13
190	17.06	36.044	26.30
200	17.07	36.195	26.42
250	13.69	35.582	26.70
300	11.79	35.267	26.84
350	10.68	35.115	26.92
400	9.82	34.993	26.98
450	9.35	34.959	27.03
500	8.47	34.853	27.09
550	7.71	34.764	27.13
600	7.33	34.729	27.16
650	6.89	34.685	27.19
700	6.49	34.653	27.21
750	6.04	34.618	27.25
800	5.82	34.611	27.27
850	5.58	34.602	27.29
900	5.42	34.618	27.32
950	5.36	34.646	27.35
1000	5.32	34.674	27.38
1500	4.60	35.011	27.73
1514	4.53	35.011	27.74

WHI–STACS30–88 CTD 30 WHITING

Date 03 20 88 Latitude 26.452 N

Time 2328 Z Longitude 75.528 W

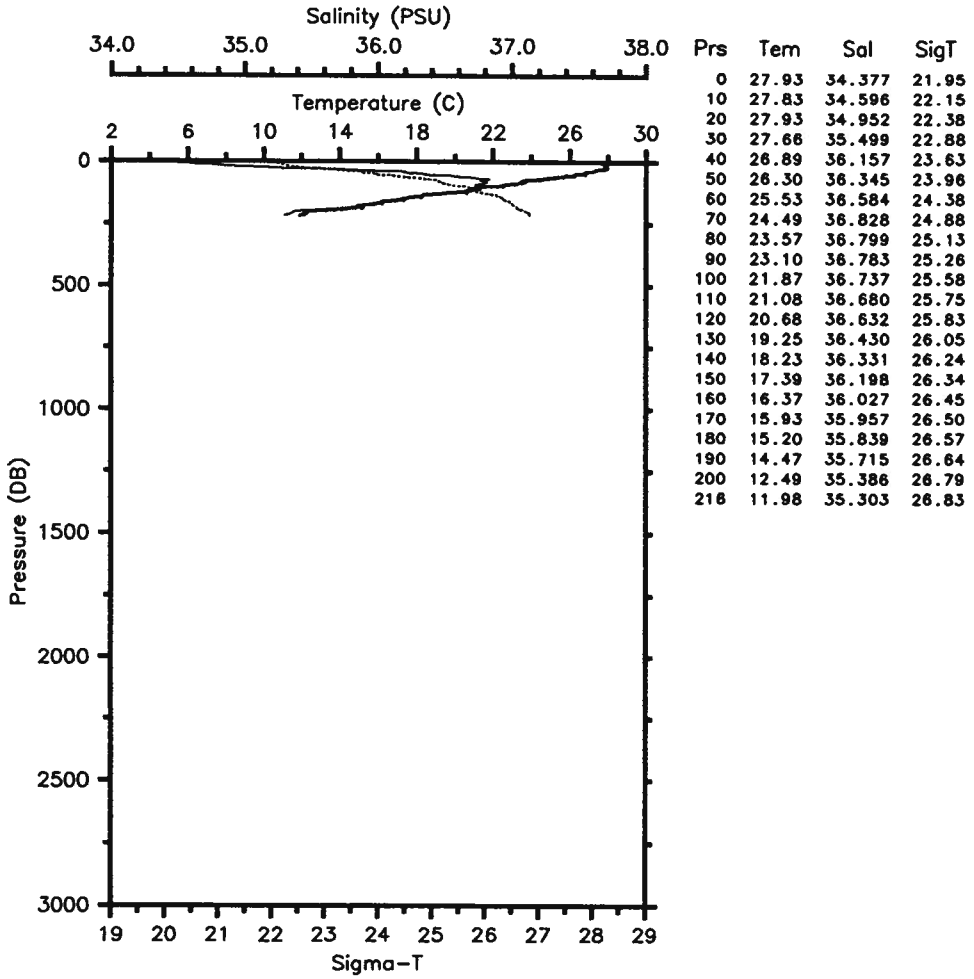


Prs	Tem	Sal	SigT
0	22.99	36.735	25.26
10	23.00	36.733	25.25
20	23.00	36.734	25.25
30	22.94	36.741	25.27
40	22.90	36.747	25.29
50	22.89	36.751	25.30
60	22.88	36.753	25.30
70	22.70	36.766	25.36
80	22.51	36.778	25.43
90	22.20	36.800	25.53
100	22.01	36.805	25.59
110	21.74	36.773	25.64
120	21.56	36.810	25.72
130	21.47	36.818	25.75
140	21.33	36.822	25.79
150	21.03	36.811	25.87
160	20.63	36.777	25.95
170	20.34	36.750	26.01
180	20.09	36.730	26.06
190	19.88	36.709	26.10
200	19.58	36.674	26.15
250	18.61	36.576	26.33
300	17.98	36.506	26.43
350	17.43	36.427	26.51
400	16.79	36.322	26.58
450	15.88	36.167	26.67
500	15.02	36.028	26.76
550	14.19	35.892	26.84
600	13.35	35.760	26.91
650	12.36	35.609	26.99
700	11.36	35.476	27.08
750	10.40	35.348	27.15
800	9.61	35.262	27.22
850	8.63	35.182	27.32
900	7.75	35.127	27.41
950	7.08	35.106	27.49
1000	6.24	35.076	27.58
1500	4.26	35.005	27.76
2000	3.68	34.991	27.81
2500	3.16	34.964	27.84
3000	2.71	34.938	27.86
3290	2.50	34.927	27.87

WHI–STACS31–88 CTD 1 WHITING

Date 07 06 88 Latitude 8.104 N

Time 1946 Z Longitude 57.630 W

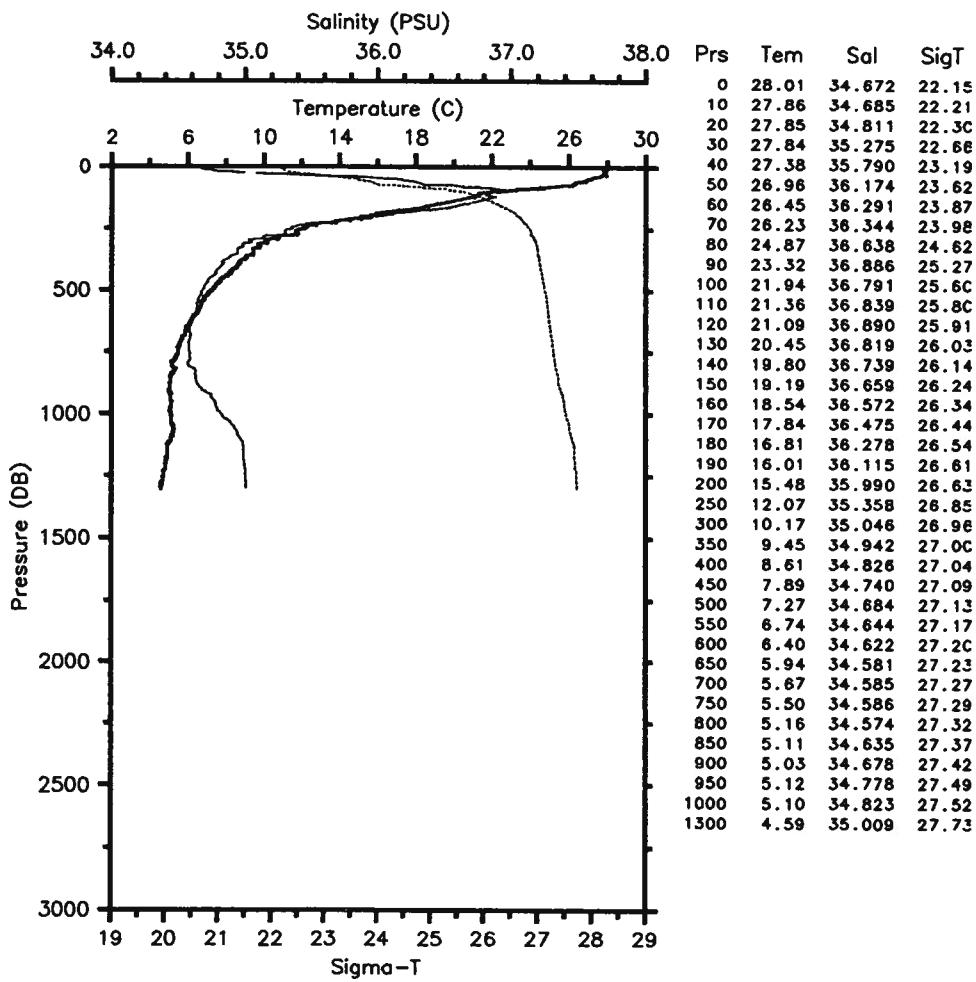


Prs	Tem	Sal	SigT
0	27.93	34.377	21.95
10	27.83	34.596	22.15
20	27.93	34.952	22.38
30	27.66	35.499	22.88
40	26.89	36.157	23.63
50	26.30	36.345	23.96
60	25.53	36.584	24.38
70	24.49	36.828	24.88
80	23.57	36.799	25.13
90	23.10	36.783	25.26
100	21.87	36.737	25.58
110	21.08	36.680	25.75
120	20.68	36.632	25.83
130	19.25	36.430	26.05
140	18.23	36.331	26.24
150	17.39	36.198	26.34
160	16.37	36.027	26.45
170	15.93	35.957	26.50
180	15.20	35.839	26.57
190	14.47	35.715	26.64
200	12.49	35.386	26.79
218	11.98	35.303	26.83

WHI–STACS31–88 CTD 2 WHITING

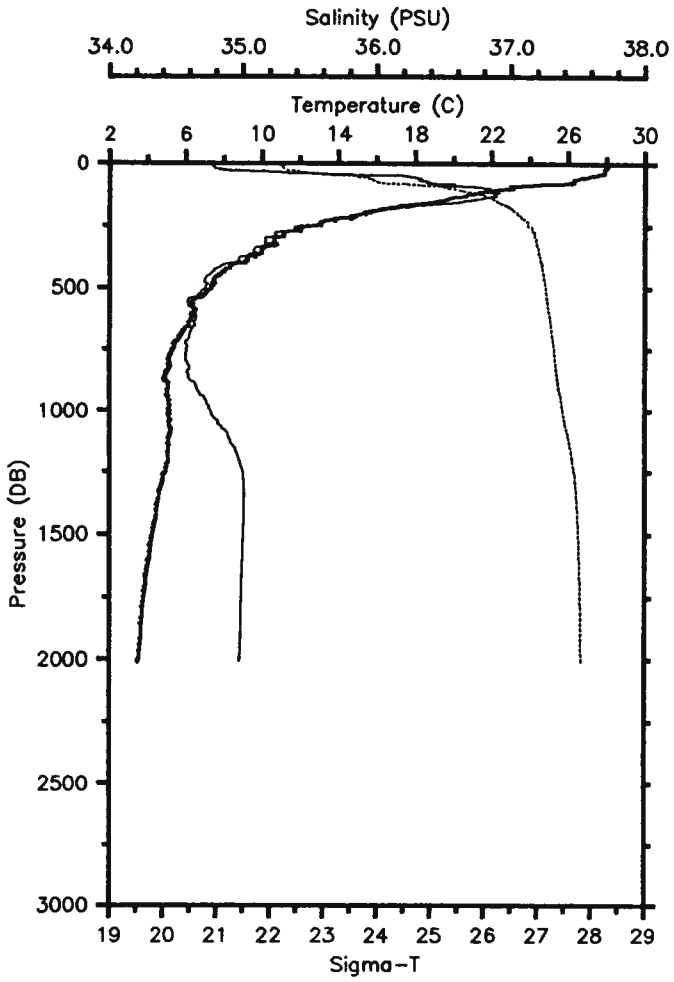
Date 07 06 88 Latitude 8.286 N

Time 2120 Z Longitude 57.528 W



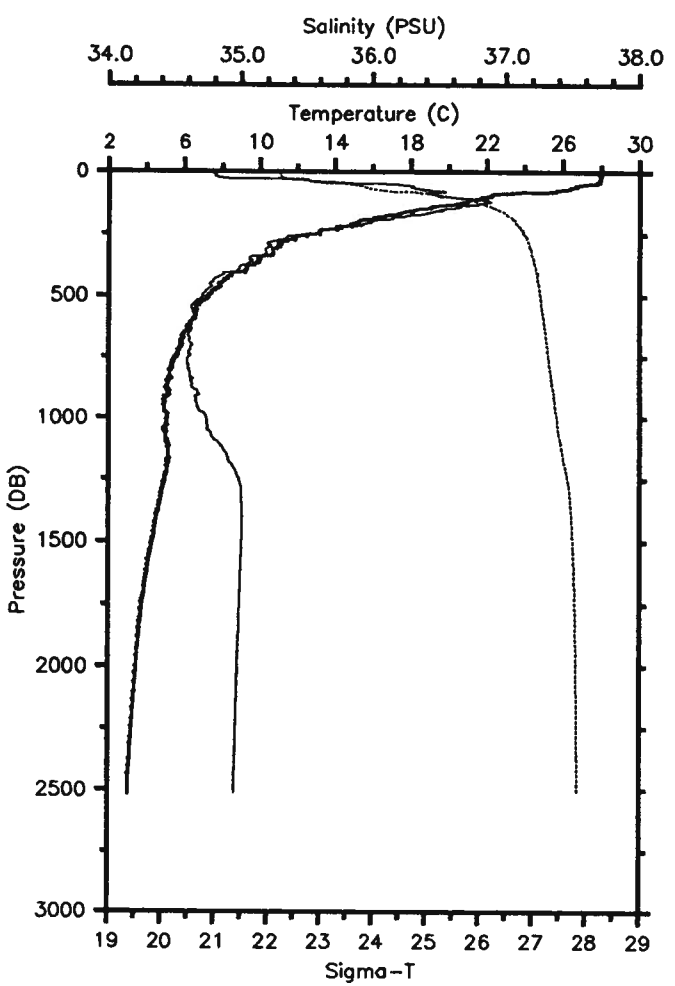
Prs	Tem	Sal	SigT
0	28.01	34.672	22.15
10	27.86	34.685	22.21
20	27.85	34.811	22.30
30	27.84	35.275	22.68
40	27.38	35.790	23.19
50	26.96	36.174	23.62
60	26.45	36.291	23.87
70	26.23	36.344	23.98
80	24.87	36.638	24.62
90	23.32	36.886	25.27
100	21.94	36.791	25.60
110	21.36	36.839	25.80
120	21.09	36.890	25.91
130	20.45	36.819	26.03
140	19.80	36.739	26.14
150	19.19	36.659	26.24
160	18.54	36.572	26.34
170	17.84	36.475	26.44
180	16.81	36.278	26.54
190	16.01	36.115	26.61
200	15.48	35.990	26.63
250	12.07	35.358	26.85
300	10.17	35.046	26.96
350	9.45	34.942	27.00
400	8.61	34.826	27.04
450	7.89	34.740	27.09
500	7.27	34.684	27.13
550	6.74	34.644	27.17
600	6.40	34.622	27.20
650	5.94	34.581	27.23
700	5.67	34.585	27.27
750	5.50	34.586	27.29
800	5.16	34.574	27.32
850	5.11	34.635	27.37
900	5.03	34.678	27.42
950	5.12	34.778	27.49
1000	5.10	34.823	27.52
1300	4.59	35.009	27.73

WHI–STACS31–88 CTD 3 WHITING
Date 07 06 88 Latitude 8.503 N
Time 2339 Z Longitude 57.417 W



Prs	Tem	Sal	SigT
0	28.05	34.780	22.22
10	28.05	34.779	22.21
20	27.92	34.801	22.27
30	27.92	34.989	22.41
40	27.72	35.471	22.84
50	27.13	36.220	23.60
60	26.51	36.333	23.88
70	26.31	36.377	23.98
80	25.72	36.491	24.25
90	23.03	36.553	25.11
100	22.90	36.851	25.37
110	21.85	36.806	25.63
120	21.13	36.890	25.90
130	20.62	36.891	26.04
140	19.78	36.775	26.17
150	19.24	36.665	26.23
160	18.41	36.501	26.32
170	17.20	36.273	26.44
180	16.61	36.154	26.50
190	15.89	36.024	26.56
200	15.40	35.943	26.61
250	12.57	35.467	26.84
300	10.65	35.170	26.97
350	10.01	35.084	27.02
400	9.01	34.933	27.07
450	7.75	34.746	27.11
500	7.34	34.719	27.15
550	6.39	34.593	27.18
600	6.39	34.635	27.21
650	6.18	34.644	27.25
700	5.67	34.598	27.28
750	5.31	34.579	27.31
800	5.13	34.584	27.33
850	4.95	34.591	27.36
900	5.06	34.650	27.39
950	5.07	34.711	27.44
1000	5.12	34.758	27.47
1500	4.25	35.006	27.76
2000	3.52	34.979	27.82
2006	3.50	34.979	27.82

WHI–STACS31–88 CTD 4 WHITING
Date 07 07 88 Latitude 8.717 N
Time 0225 Z Longitude 57.289 W

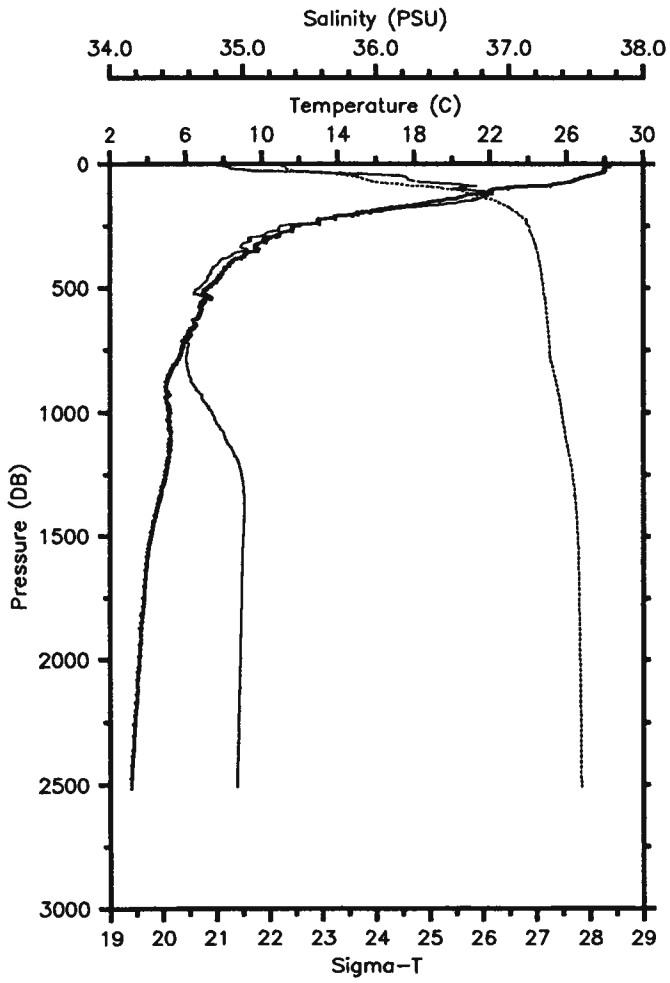


Prs	Tem	Sal	SigT
0	27.88	34.204	21.84
10	28.01	34.804	22.25
20	27.97	34.809	22.28
30	27.94	35.316	22.65
40	27.87	35.581	22.88
50	27.23	36.157	23.52
60	26.59	36.305	23.83
70	26.14	36.386	24.04
80	25.20	36.547	24.45
90	22.35	36.443	25.22
100	22.00	36.543	25.39
110	21.47	36.811	25.75
120	20.97	36.889	25.94
130	20.29	36.799	26.06
140	19.11	36.637	26.25
150	18.58	36.552	26.32
160	17.83	36.477	26.45
170	17.39	36.402	26.50
180	16.83	36.255	26.57
190	16.09	36.154	26.62
200	15.26	35.989	26.68
250	12.83	35.531	26.84
300	11.07	35.225	26.94
350	9.96	35.066	27.01
400	9.21	34.970	27.06
450	7.88	34.768	27.11
500	7.29	34.710	27.15
550	6.63	34.624	27.17
600	6.42	34.638	27.21
650	6.01	34.610	27.24
700	5.86	34.628	27.28
750	5.53	34.603	27.30
800	5.32	34.609	27.33
850	5.10	34.620	27.36
900	5.18	34.680	27.40
950	4.93	34.668	27.42
1000	5.09	34.740	27.46
1500	4.30	35.007	27.76
2000	3.47	34.978	27.82
2500	3.05	34.954	27.84
2512	3.04	34.954	27.84

WHI–STACS31–88 CTD 5 WHITING

Date 07 07 88 Latitude 9.021 N

Time 0554 Z Longitude 57.121 W

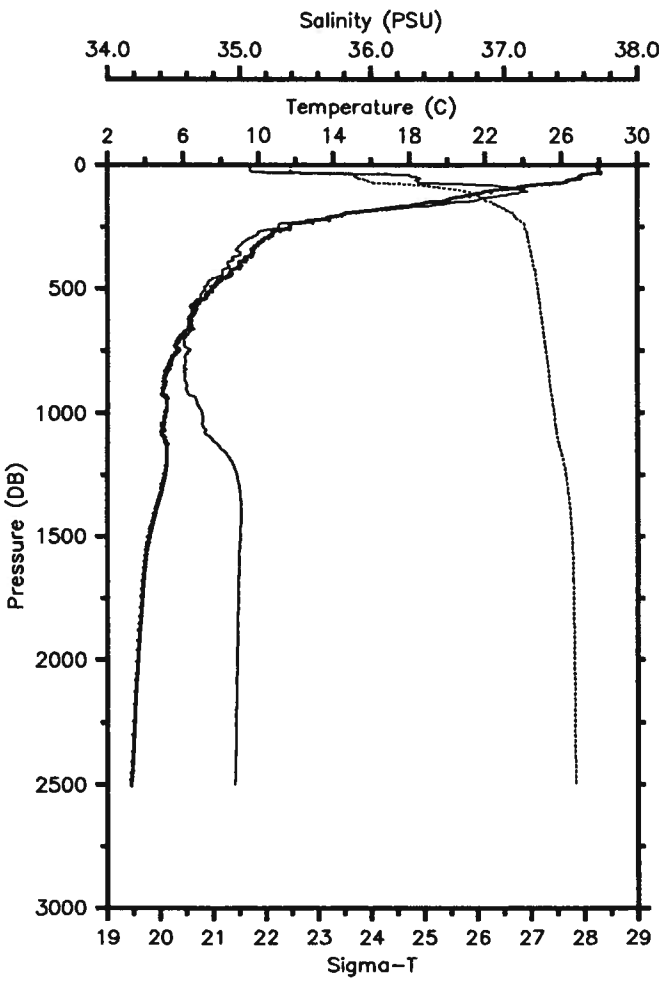


Prs	Tem	Sal	SigT
0	28.27	34.816	22.17
10	28.10	34.888	22.28
20	28.00	34.931	22.35
30	27.99	35.193	22.55
40	27.67	35.875	23.16
50	27.08	36.218	23.61
60	26.66	36.245	23.77
70	26.30	36.317	23.93
80	25.44	36.620	24.43
90	24.36	36.711	24.83
100	22.52	36.602	25.29
110	21.95	36.776	25.58
120	21.38	36.865	25.81
130	20.66	36.839	25.99
140	20.14	36.754	26.07
150	19.28	36.695	26.25
160	18.42	36.550	26.36
170	17.52	36.379	26.45
180	16.57	36.180	26.52
190	15.73	36.037	26.61
200	15.06	35.911	26.66
250	11.66	35.278	26.87
300	10.19	35.044	26.95
350	9.81	35.036	27.01
400	8.35	34.814	27.08
450	7.81	34.747	27.10
500	7.17	34.674	27.14
550	7.05	34.693	27.17
600	6.78	34.674	27.19
650	6.49	34.657	27.22
700	6.04	34.606	27.24
750	5.80	34.586	27.25
800	5.53	34.582	27.28
850	5.13	34.597	27.34
900	4.97	34.646	27.40
950	5.01	34.704	27.44
1000	5.16	34.770	27.47
1500	4.18	35.004	27.77
2000	3.56	34.981	27.82
2500	3.12	34.958	27.84
2510	3.12	34.958	27.84

WHI–STACS31–88 CTD 6 WHITING

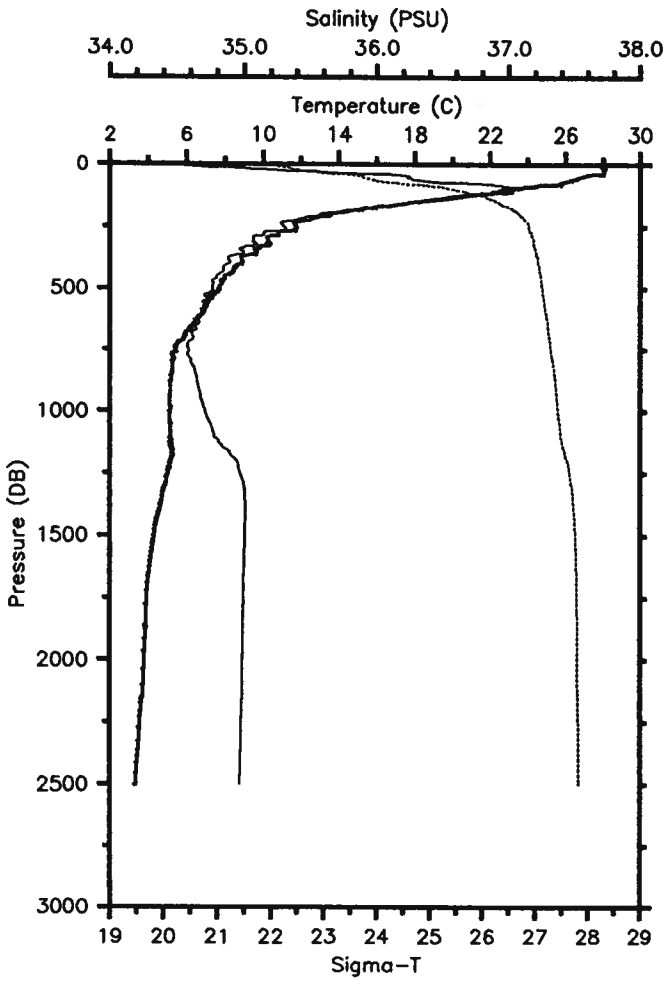
Date 07 07 88 Latitude 9.456 N

Time 0955 Z Longitude 56.894 W



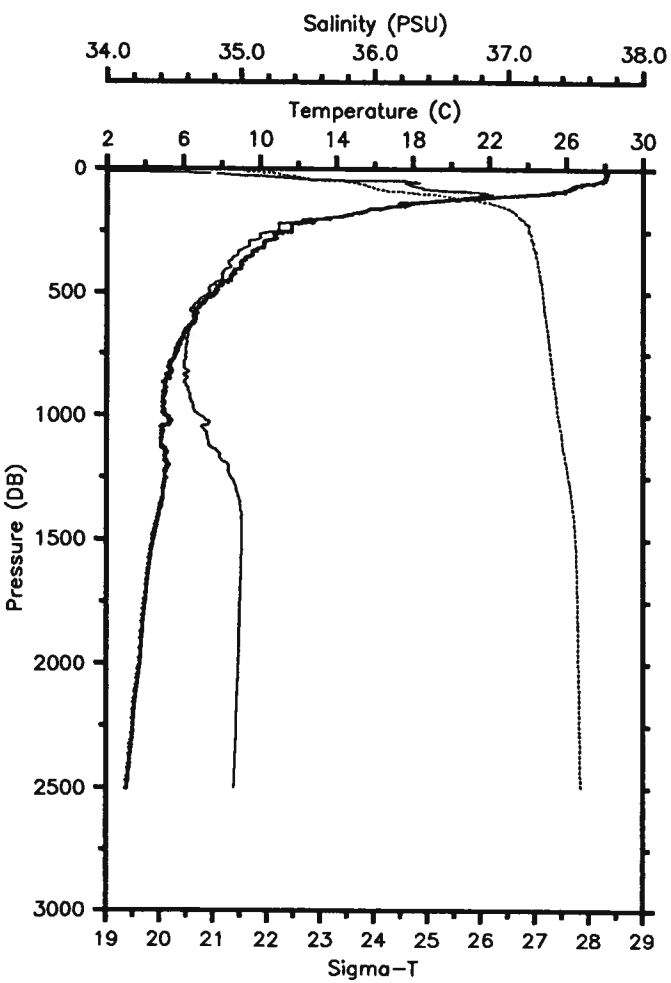
Prs	Tem	Sal	SigT
0	27.96	35.085	22.47
10	27.95	35.085	22.48
20	27.96	35.084	22.47
30	28.03	35.162	22.51
40	27.17	36.285	23.63
50	27.02	36.350	23.73
60	26.48	36.336	23.89
70	26.16	36.355	24.01
80	24.67	36.825	24.82
90	23.78	36.994	25.22
100	22.81	37.110	25.59
110	21.91	37.129	25.86
120	21.20	37.029	25.99
130	20.55	36.902	26.07
140	20.07	36.811	26.13
150	19.08	36.651	26.26
160	18.40	36.517	26.34
170	17.33	36.304	26.44
180	16.36	36.130	26.53
190	15.29	35.894	26.60
200	14.46	35.768	26.68
250	11.70	35.300	26.88
300	10.30	35.064	26.95
350	9.67	34.987	27.00
400	8.99	34.909	27.05
450	8.40	34.848	27.09
500	7.53	34.735	27.14
550	6.87	34.660	27.17
600	6.55	34.633	27.19
650	6.34	34.635	27.22
700	5.80	34.583	27.25
750	5.72	34.619	27.29
800	5.27	34.584	27.31
850	5.03	34.585	27.34
900	4.94	34.593	27.36
950	5.12	34.673	27.40
1000	5.06	34.716	27.44
1500	4.22	35.005	27.77
2000	3.61	34.982	27.81
2500	3.25	34.965	27.83

WHI–STACS31–88 CTD 7 WHITING
Date 07 07 88 Latitude 9.904 N
Time 1427 Z Longitude 56.663 W



Prs	Tem	Sal	SigT
0	28.02	34.557	22.06
10	27.98	34.671	22.16
20	28.06	35.070	22.43
30	28.05	35.548	22.79
40	27.70	36.073	23.30
50	26.82	36.250	23.72
60	26.45	36.269	23.85
70	25.89	36.433	24.15
80	25.50	36.895	24.62
90	23.87	37.043	25.23
100	22.74	36.923	25.47
110	22.25	37.034	25.69
120	20.99	36.777	25.85
130	19.78	36.647	26.08
140	18.92	36.519	26.21
150	18.20	36.351	26.26
160	17.14	36.147	26.36
170	16.03	35.978	26.50
180	15.31	35.868	26.57
190	14.45	35.720	26.65
200	13.59	35.576	26.72
250	11.72	35.300	26.88
300	10.26	35.067	26.96
350	9.64	34.996	27.01
400	8.90	34.893	27.05
450	8.02	34.794	27.11
500	7.69	34.765	27.14
550	7.18	34.712	27.17
600	6.86	34.701	27.20
650	6.34	34.655	27.24
700	5.88	34.623	27.27
750	5.45	34.590	27.30
800	5.28	34.606	27.33
850	5.23	34.641	27.36
900	5.16	34.662	27.39
950	5.14	34.682	27.41
1000	5.14	34.709	27.43
1500	4.30	35.006	27.76
2000	3.80	34.989	27.80
2500	3.34	34.969	27.83

WHI–STACS31–88 CTD 8 WHITING
Date 07 07 88 Latitude 10.345 N
Time 1832 Z Longitude 56.419 W

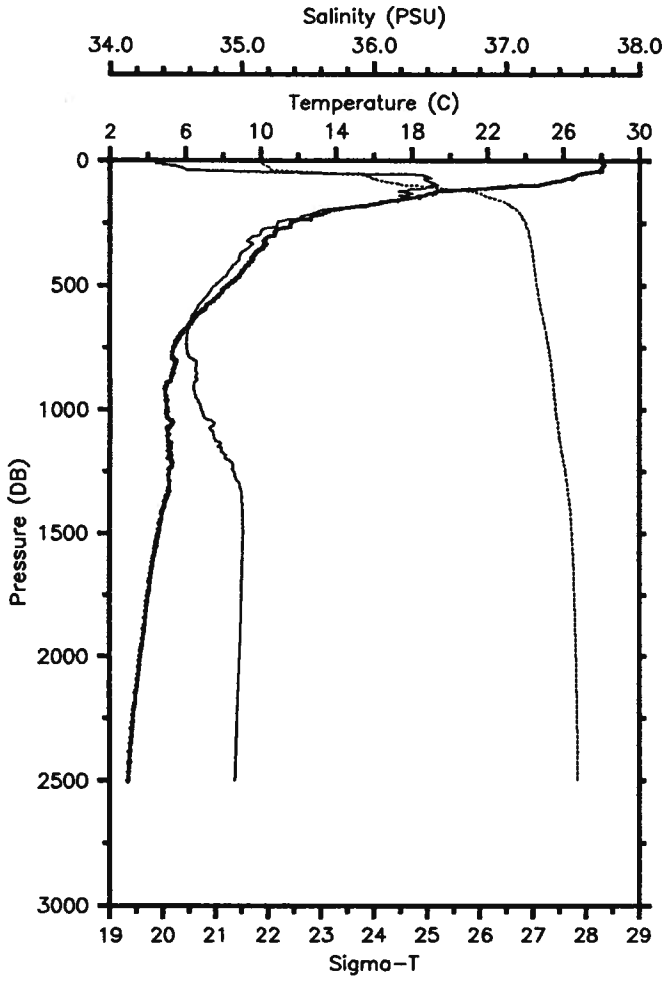


Prs	Tem	Sal	SigT
0	28.17	33.940	21.54
10	28.13	33.987	21.59
20	28.10	34.819	22.23
30	28.09	35.162	22.49
40	27.99	35.419	22.71
50	27.59	36.258	23.48
60	26.82	36.273	23.74
70	26.41	36.320	23.90
80	26.08	36.366	24.04
90	25.32	36.663	24.50
100	24.03	36.830	25.02
110	22.53	36.733	25.39
120	20.86	36.552	25.71
130	18.92	36.308	26.04
140	17.79	36.188	26.24
150	17.12	36.155	26.37
160	15.79	35.961	26.54
170	15.41	35.925	26.59
180	14.85	35.826	26.64
190	14.31	35.725	26.68
200	13.37	35.560	26.75
250	11.64	35.278	26.87
300	10.23	35.062	26.96
350	9.55	34.974	27.01
400	9.05	34.926	27.05
450	8.45	34.858	27.09
500	7.69	34.770	27.14
550	6.90	34.659	27.16
600	6.63	34.648	27.19
650	6.22	34.623	27.23
700	5.88	34.603	27.25
750	5.63	34.595	27.28
800	5.32	34.579	27.30
850	5.29	34.606	27.33
900	5.05	34.612	27.36
950	4.98	34.643	27.39
1000	5.10	34.697	27.42
1500	4.44	35.010	27.75
2000	3.76	34.989	27.80
2500	3.07	34.956	27.84

WHI–STACS31–88 CTD 9 WHITING

Date 07 07 88 Latitude 10.770 N

Time 2326 Z Longitude 56.164 W

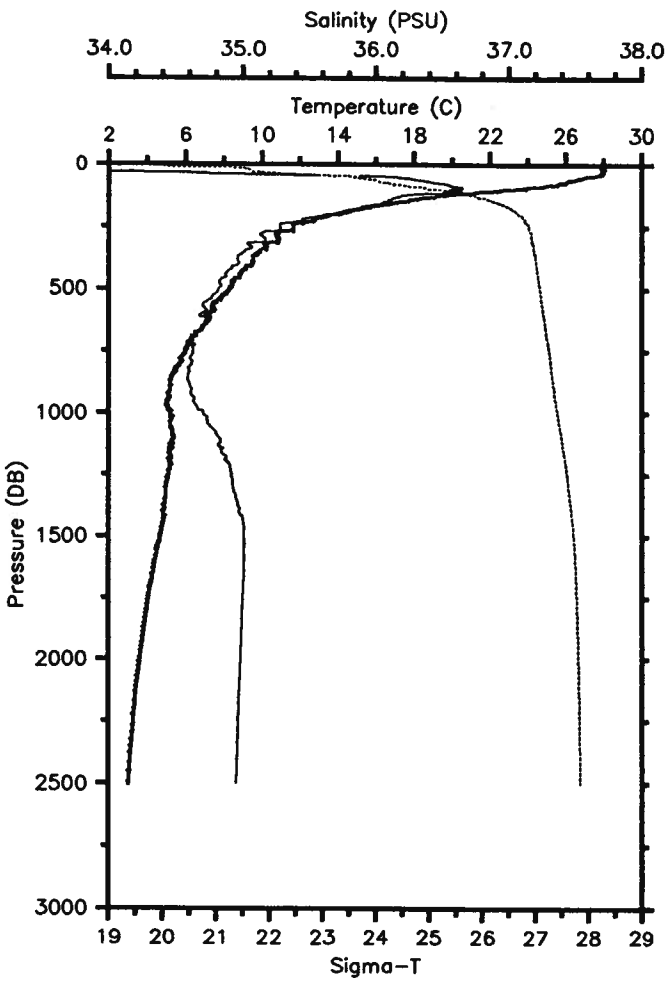


Prs	Tem	Sal	SigT
0	28.10	34.353	21.88
10	28.09	34.346	21.88
20	28.12	34.478	21.96
30	28.05	34.552	22.04
40	28.01	34.655	22.13
50	27.26	35.479	23.00
60	26.74	36.388	23.85
70	26.50	36.434	23.96
80	25.89	36.395	24.12
90	25.24	36.450	24.37
100	24.01	36.463	24.75
110	22.30	36.394	25.19
120	20.22	36.241	25.65
130	19.18	36.261	25.94
140	18.60	36.236	26.07
150	17.98	36.254	26.24
160	16.98	36.129	26.39
170	16.33	36.067	26.49
180	15.70	35.963	26.56
190	14.44	35.723	26.65
200	13.69	35.601	26.72
250	11.63	35.272	26.87
300	10.69	35.125	26.93
350	10.11	35.055	26.98
400	9.58	34.979	27.01
450	8.96	34.895	27.04
500	8.31	34.805	27.07
550	7.63	34.721	27.11
600	6.95	34.652	27.15
650	6.30	34.610	27.21
700	5.74	34.586	27.26
750	5.38	34.581	27.30
800	5.43	34.638	27.34
850	5.37	34.663	27.36
900	5.01	34.638	27.39
950	4.95	34.654	27.41
1000	5.02	34.696	27.43
1500	4.57	35.014	27.74
2000	3.60	34.985	27.82
2500	2.96	34.951	27.85

WHI–STACS31–88 CTD 10 WHITING

Date 07 08 88 Latitude 11.258 N

Time 0430 Z Longitude 55.927 W

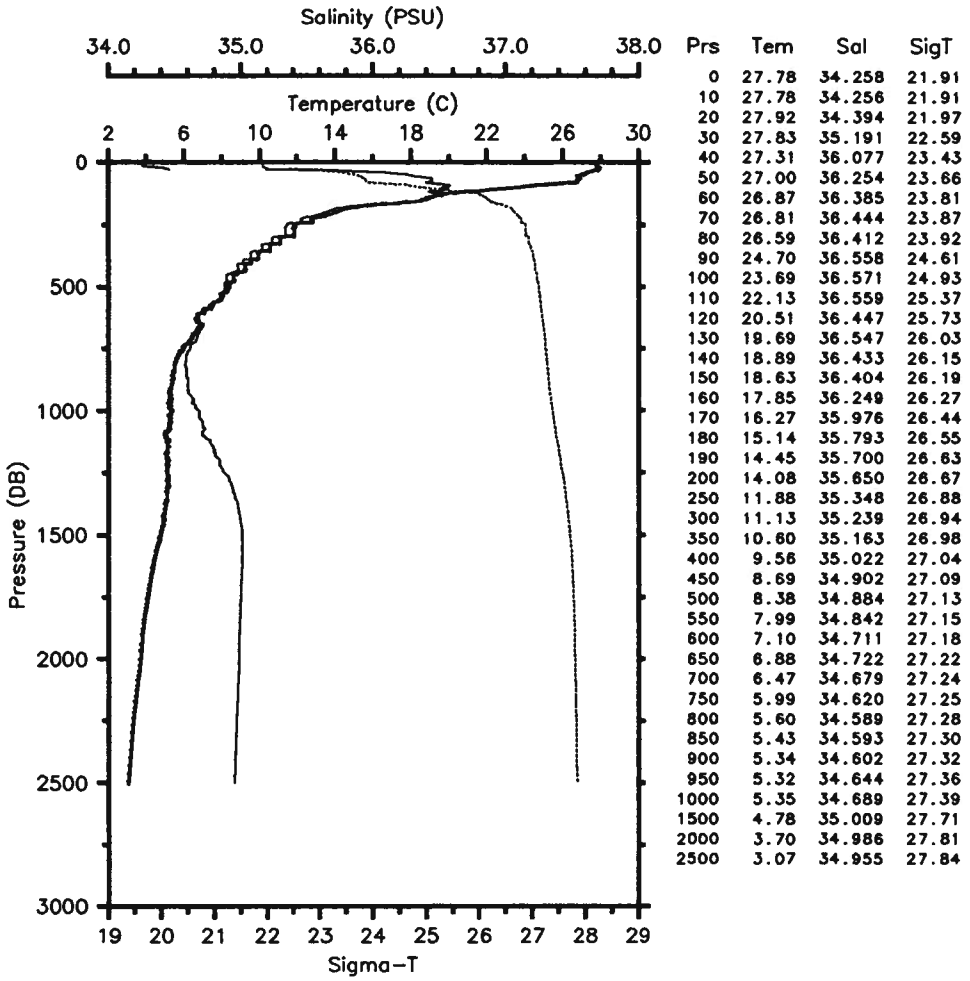


Prs	Tem	Sal	SigT
0	27.86	31.780	20.02
10	27.86	31.790	20.03
20	28.00	33.985	21.63
30	27.92	33.974	21.65
40	27.83	34.874	22.36
50	27.02	36.149	23.58
60	26.49	36.294	23.86
70	26.05	36.430	24.10
80	25.46	36.561	24.38
90	24.24	36.649	24.82
100	22.82	36.646	25.24
110	21.28	36.506	25.57
120	19.83	36.248	25.76
130	19.09	36.180	25.90
140	18.02	36.116	26.12
150	17.30	36.068	26.26
160	16.53	36.010	26.40
170	15.75	35.900	26.50
180	15.15	35.821	26.57
190	14.62	35.749	26.63
200	14.13	35.670	26.68
250	11.64	35.280	26.88
300	10.87	35.171	26.93
350	9.91	35.016	26.98
400	9.50	34.963	27.01
450	8.84	34.874	27.05
500	8.32	34.820	27.08
550	7.64	34.731	27.12
600	7.21	34.696	27.15
650	6.91	34.693	27.19
700	6.30	34.627	27.22
750	6.00	34.627	27.26
800	5.70	34.614	27.29
850	5.29	34.591	27.32
900	5.21	34.616	27.35
950	5.03	34.632	27.38
1000	5.21	34.705	27.42
1500	4.68	35.012	27.72
2000	3.63	34.986	27.81
2500	3.03	34.956	27.85

WHI–STACS31–88 CTD 11 WHITING

Date 07 08 88 Latitude 10.744 N

Time 1131 Z Longitude 55.066 W

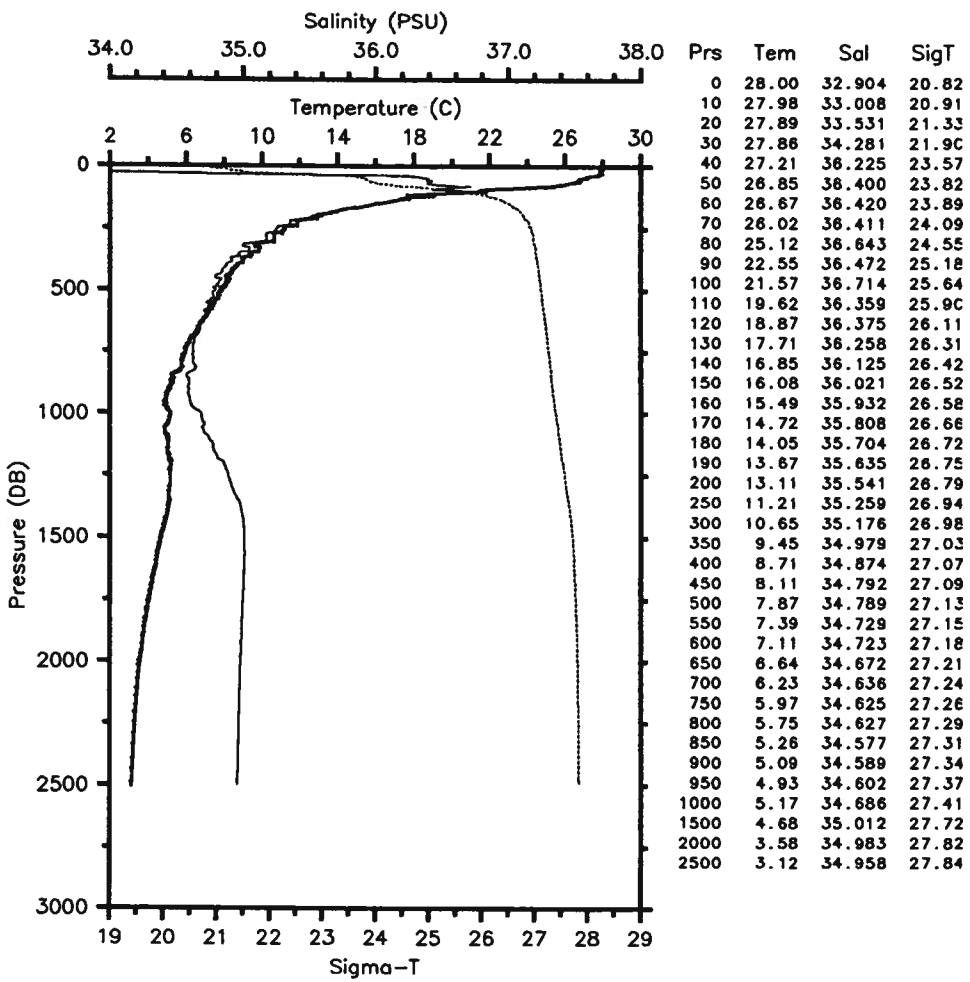


Prs	Tem	Sal	SigT
0	27.78	34.258	21.91
10	27.78	34.256	21.91
20	27.92	34.394	21.97
30	27.83	35.191	22.59
40	27.31	36.077	23.43
50	27.00	36.254	23.66
60	26.87	36.385	23.81
70	26.81	36.444	23.87
80	26.59	36.412	23.92
90	24.70	36.558	24.61
100	23.69	36.571	24.93
110	22.13	36.559	25.37
120	20.51	36.447	25.73
130	19.69	36.547	26.03
140	18.89	36.433	26.15
150	18.63	36.404	26.19
160	17.85	36.249	26.27
170	16.27	35.976	26.44
180	15.14	35.793	26.55
190	14.45	35.700	26.63
200	14.08	35.650	26.67
250	11.88	35.348	26.88
300	11.13	35.239	26.94
350	10.60	35.163	26.98
400	9.56	35.022	27.04
450	8.69	34.902	27.09
500	8.38	34.884	27.13
550	7.99	34.842	27.15
600	7.10	34.711	27.18
650	6.88	34.722	27.22
700	6.47	34.679	27.24
750	5.99	34.620	27.25
800	5.60	34.589	27.28
850	5.43	34.593	27.30
900	5.34	34.602	27.32
950	5.32	34.644	27.36
1000	5.35	34.689	27.39
1500	4.78	35.009	27.71
2000	3.70	34.986	27.81
2500	3.07	34.955	27.84

WHI–STACS31–88 CTD 12 WHITING

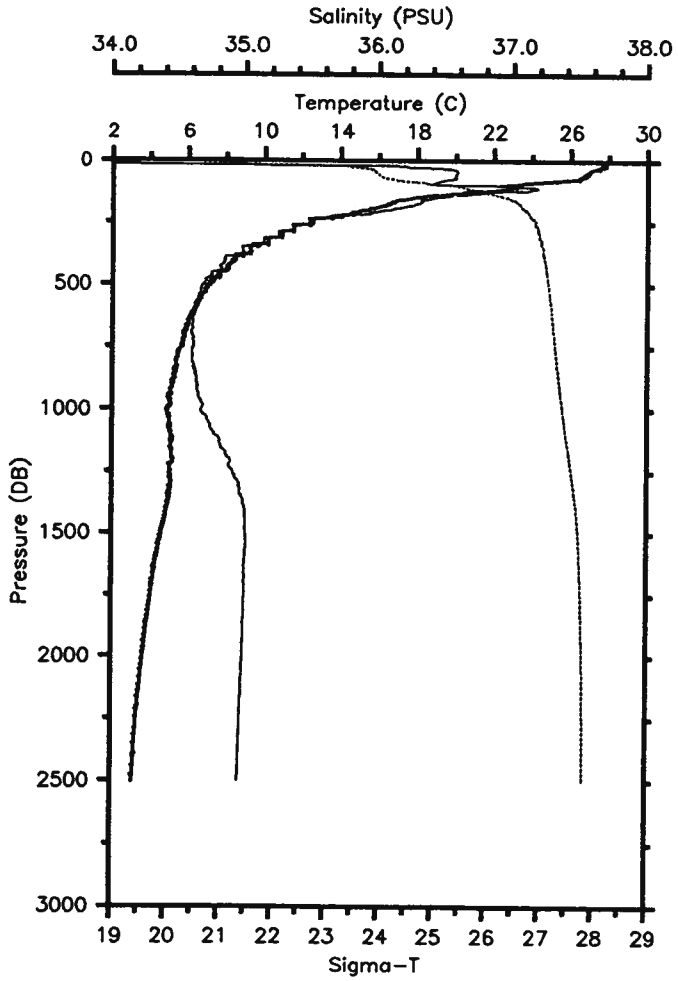
Date 07 08 88 Latitude 10.218 N

Time 2116 Z Longitude 54.174 W



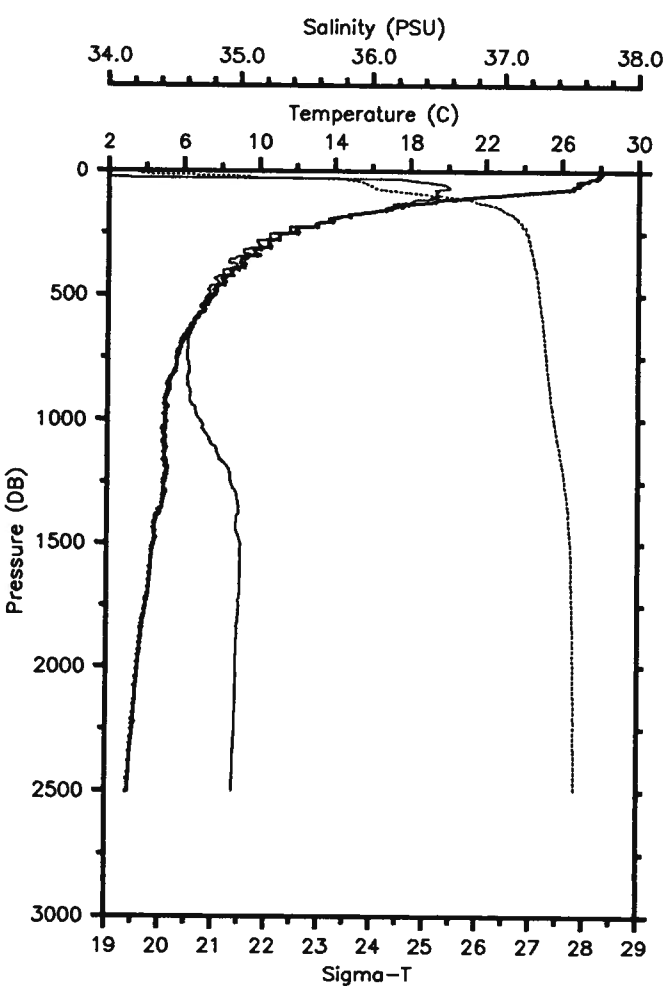
Prs	Tem	Sal	SigT
0	28.00	32.904	20.82
10	27.98	33.008	20.91
20	27.89	33.531	21.33
30	27.86	34.281	21.90
40	27.21	36.225	23.57
50	26.85	36.400	23.82
60	26.67	36.420	23.89
70	26.02	36.411	24.09
80	25.12	36.643	24.55
90	22.55	36.472	25.18
100	21.57	36.714	25.64
110	19.62	36.359	25.90
120	18.87	36.375	26.11
130	17.71	36.258	26.31
140	16.85	36.125	26.42
150	16.08	36.021	26.52
160	15.49	35.932	26.58
170	14.72	35.808	26.66
180	14.05	35.704	26.72
190	13.67	35.635	26.75
200	13.11	35.541	26.79
250	11.21	35.259	26.94
300	10.65	35.176	26.98
350	9.45	34.979	27.03
400	8.71	34.874	27.07
450	8.11	34.792	27.09
500	7.87	34.789	27.13
550	7.39	34.729	27.15
600	7.11	34.723	27.18
650	6.64	34.672	27.21
700	6.23	34.636	27.24
750	5.97	34.625	27.26
800	5.75	34.627	27.29
850	5.26	34.577	27.31
900	5.09	34.589	27.34
950	4.93	34.602	27.37
1000	5.17	34.686	27.41
1500	4.68	35.012	27.72
2000	3.58	34.983	27.82
2500	3.12	34.958	27.84

WHI–STACS31–88 CTD 13 WHITING
Date 07 09 88 Latitude 9.710 N
Time 0421 Z Longitude 53.310 W



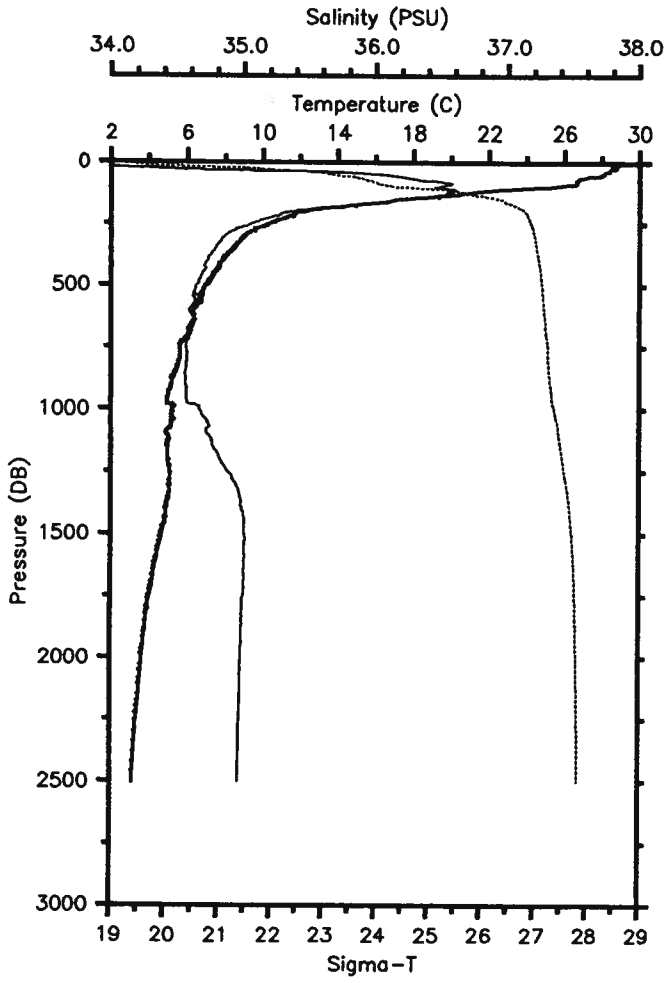
Prs	Tem	Sal	SigT
0	27.64	32.215	20.42
10	27.80	33.353	21.22
20	27.76	35.706	23.01
30	27.40	36.358	23.61
40	27.01	36.573	23.90
50	26.89	36.577	23.95
60	26.70	36.570	24.00
70	26.46	36.573	24.08
80	25.38	36.496	24.36
90	23.61	36.430	24.84
100	22.70	36.847	25.42
110	22.95	37.177	25.60
120	22.09	37.127	25.81
130	20.40	36.785	26.02
140	19.15	36.613	26.22
150	17.95	36.446	26.39
160	17.07	36.323	26.51
170	16.70	36.316	26.60
180	16.41	36.264	26.63
190	15.87	36.168	26.68
200	15.37	36.088	26.73
250	12.37	35.510	26.91
300	10.91	35.252	26.99
350	9.24	34.974	27.08
400	8.41	34.841	27.09
450	7.91	34.791	27.12
500	7.16	34.691	27.15
550	6.68	34.645	27.18
600	6.34	34.629	27.22
650	6.01	34.605	27.24
700	5.73	34.592	27.26
750	5.65	34.611	27.29
800	5.39	34.599	27.31
850	5.32	34.628	27.34
900	5.16	34.637	27.37
950	5.01	34.650	27.40
1000	4.92	34.674	27.43
1500	4.59	35.006	27.73
2000	3.65	34.985	27.81
2500	3.12	34.955	27.84

WHI–STACS31–88 CTD 14 WHITING
Date 07 09 88 Latitude 9.205 N
Time 1110 Z Longitude 52.425 W



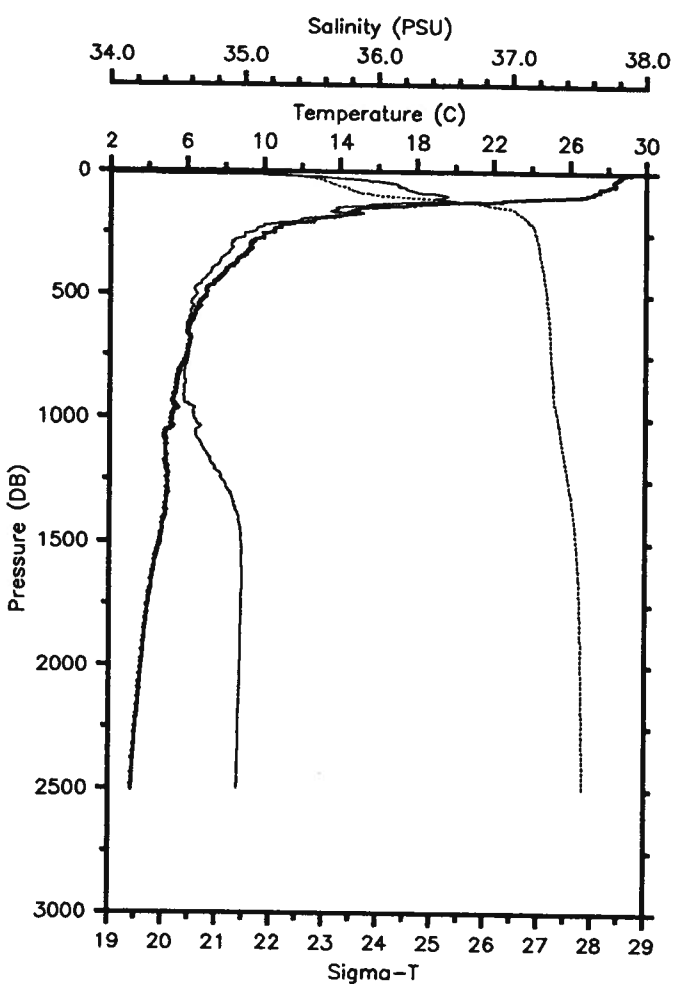
Prs	Tem	Sal	SigT
0	28.08	31.246	19.55
10	28.05	31.278	19.59
20	27.91	33.798	21.52
30	27.69	35.291	22.72
40	27.17	36.343	23.68
50	26.83	36.448	23.86
60	26.77	36.562	23.97
70	26.55	36.582	24.06
80	25.33	36.491	24.37
90	23.87	36.486	24.81
100	22.12	36.501	25.33
110	20.92	36.492	25.65
120	19.42	36.305	25.91
130	18.55	36.211	26.06
140	17.56	36.194	26.30
150	16.80	36.111	26.42
160	16.41	36.093	26.50
170	15.48	35.931	26.58
180	14.83	35.829	26.65
190	13.85	35.663	26.73
200	13.87	35.689	26.75
250	12.02	35.392	26.89
300	10.54	35.149	26.97
350	9.34	34.966	27.04
400	8.53	34.870	27.09
450	8.17	34.836	27.12
500	7.59	34.758	27.14
550	7.05	34.699	27.17
600	6.57	34.657	27.21
650	6.19	34.624	27.23
700	5.88	34.607	27.26
750	5.65	34.598	27.28
800	5.59	34.615	27.30
850	5.22	34.601	27.33
900	5.13	34.624	27.36
950	5.12	34.660	27.39
1000	5.04	34.699	27.43
1500	4.47	35.010	27.74
2000	3.65	34.979	27.81
2500	3.17	34.959	27.84

WHI–STACS31–88 CTD 15 WHITING
Date 07 09 88 Latitude 8.657 N
Time 1752 Z Longitude 51.587 W



Prs	Tem	Sal	SigT
0	29.91	30.168	18.14
10	28.60	31.461	19.54
20	28.69	33.528	21.06
30	28.41	34.613	21.97
40	28.14	35.768	22.93
50	27.97	36.097	23.23
60	27.08	36.237	23.63
70	26.75	36.336	23.81
80	26.64	36.532	23.99
90	26.30	36.554	24.11
100	24.67	36.443	24.53
110	22.45	36.603	25.31
120	21.13	36.550	25.64
130	20.26	36.529	25.86
140	18.60	36.408	26.20
150	17.17	36.193	26.39
160	16.60	36.099	26.45
170	15.25	35.858	26.58
180	14.37	35.727	26.67
190	13.08	35.506	26.77
200	12.28	35.368	26.82
250	10.29	35.051	26.94
300	9.00	34.851	27.00
350	8.41	34.778	27.04
400	7.85	34.722	27.08
450	7.39	34.683	27.11
500	6.93	34.636	27.14
550	6.67	34.622	27.17
600	6.29	34.583	27.19
650	6.24	34.604	27.21
700	6.00	34.593	27.23
750	5.61	34.563	27.26
800	5.58	34.567	27.26
850	5.39	34.555	27.28
900	5.18	34.556	27.30
950	4.98	34.563	27.33
1000	5.23	34.661	27.38
1500	4.63	35.004	27.72
2000	3.63	34.977	27.81
2500	3.14	34.957	27.84

WHI–STACS31–88 CTD 16 WHITING
Date 07 10 88 Latitude 8.113 N
Time 0015 Z Longitude 50.709 W

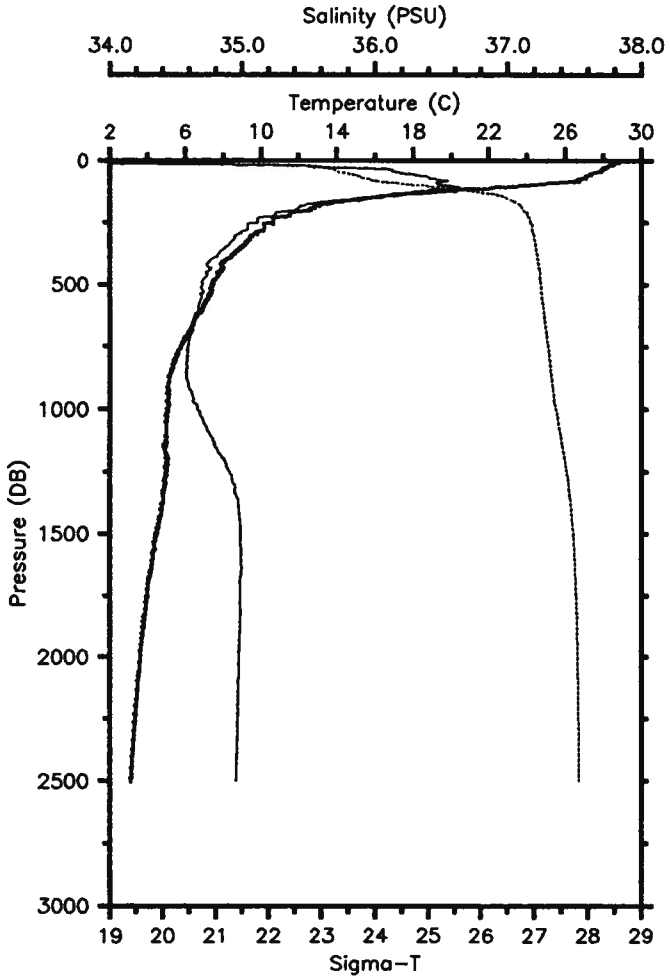


Prs	Tem	Sal	SigT
0	29.22	30.804	18.85
10	28.82	34.074	21.43
20	28.59	35.478	22.56
30	28.41	35.804	22.87
40	28.30	35.994	23.05
50	28.37	36.143	23.14
60	27.98	36.156	23.27
70	27.57	36.207	23.44
80	27.30	36.264	23.58
90	26.94	36.415	23.81
100	26.01	36.499	24.16
110	23.52	36.417	24.86
120	22.43	36.593	25.31
130	18.82	36.068	25.89
140	17.37	35.895	26.11
150	15.11	35.697	26.49
160	14.71	35.677	26.56
170	15.13	35.850	26.60
180	14.15	35.678	26.68
190	13.10	35.489	26.75
200	12.63	35.414	26.79
250	10.36	35.047	26.93
300	9.31	34.901	26.99
350	8.88	34.852	27.02
400	8.09	34.756	27.07
450	7.49	34.686	27.10
500	7.05	34.646	27.13
550	6.73	34.628	27.16
600	6.34	34.589	27.18
650	6.12	34.571	27.20
700	6.16	34.594	27.21
750	6.02	34.586	27.22
800	5.71	34.562	27.24
850	5.52	34.560	27.27
900	5.45	34.557	27.27
950	5.38	34.589	27.31
1000	5.25	34.627	27.35
1500	4.65	34.986	27.70
2000	3.68	34.978	27.80
2500	3.18	34.959	27.84

WHI-STACS31-88 CTD 17 WHITING

Date 07 10 88 Latitude 7.609 N

Time 0627 Z Longitude 49.884 W

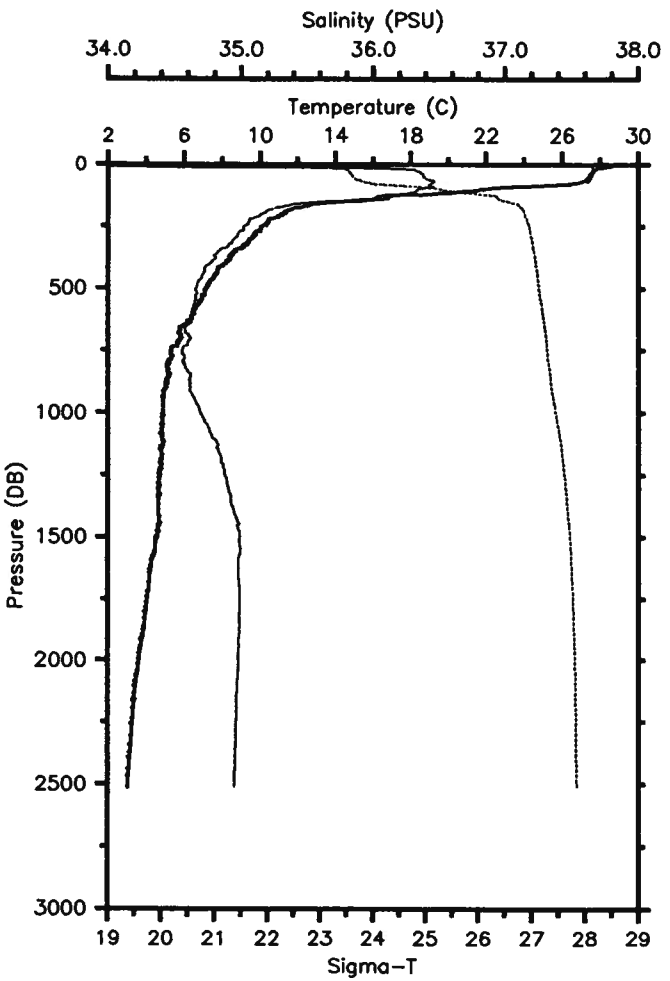


Prs	Tem	Sal	SigT
0	28.86	31.553	19.53
10	28.64	31.912	19.87
20	28.28	35.334	22.56
30	28.00	35.785	22.99
40	27.92	36.125	23.27
50	27.52	36.185	23.44
60	27.18	36.321	23.66
70	27.03	36.408	23.77
80	26.70	36.550	23.98
90	25.25	36.458	24.37
100	23.70	36.531	24.89
110	22.22	36.622	25.39
120	20.32	36.402	25.75
130	18.79	36.259	26.04
140	17.10	36.087	26.33
150	15.98	35.923	26.46
160	15.05	35.775	26.56
170	13.88	35.582	26.66
180	13.20	35.484	26.73
190	12.81	35.438	26.77
200	12.59	35.404	26.79
250	10.69	35.119	26.92
300	9.57	34.961	26.99
350	8.93	34.875	27.03
400	8.16	34.764	27.06
450	7.73	34.728	27.10
500	7.48	34.704	27.12
550	7.25	34.696	27.14
600	6.92	34.675	27.17
650	6.47	34.631	27.20
700	6.14	34.616	27.23
750	5.80	34.597	27.26
800	5.53	34.591	27.29
850	5.28	34.583	27.31
900	5.13	34.600	27.34
950	5.12	34.630	27.37
1000	5.02	34.664	27.41
1500	4.49	34.993	27.73
2000	3.63	34.979	27.81
2500	3.13	34.956	27.84

WHI-STACS31-88 CTD 18 WHITING

Date 07 10 88 Latitude 7.091 N

Time 1250 Z Longitude 49.030 W

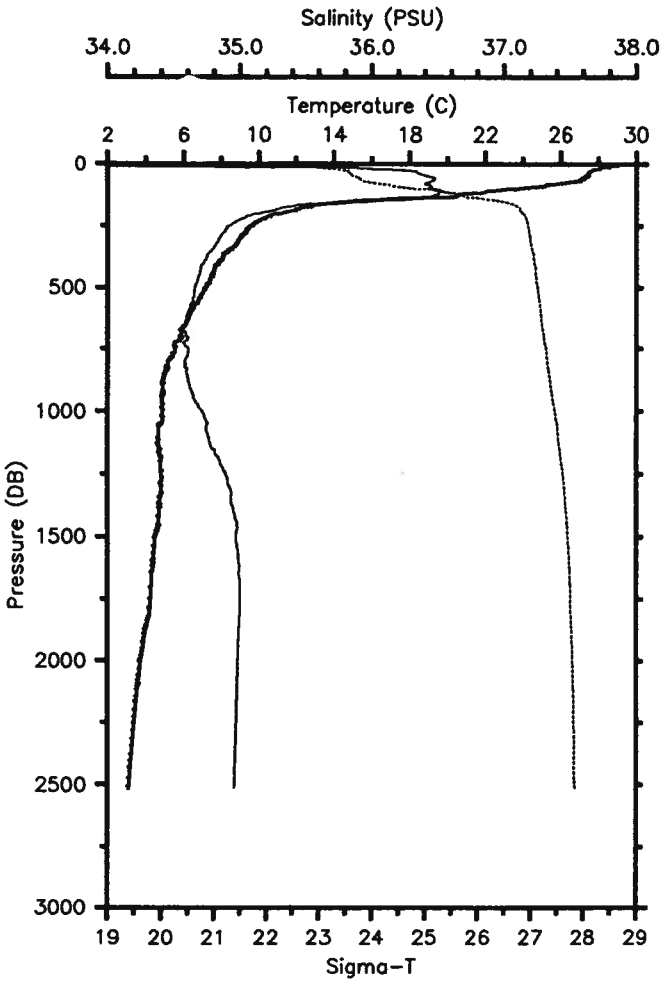


Prs	Tem	Sal	SigT
0	27.57	10.891	4.5C
10	28.29	33.659	21.44
20	27.74	36.285	23.45
30	27.59	36.352	23.55
40	27.51	36.383	23.6C
50	27.46	36.388	23.62
60	27.35	36.415	23.67
70	26.98	36.466	23.83
80	26.13	36.429	24.07
90	23.76	36.434	24.8C
100	21.76	36.340	25.3C
110	20.73	36.322	25.58
120	19.14	36.327	26.0C
130	16.81	36.025	26.35
140	16.52	35.980	26.38
150	14.85	35.679	26.53
160	12.88	35.409	26.73
170	12.36	35.333	26.78
180	11.77	35.241	26.82
190	11.38	35.192	26.86
200	11.20	35.159	26.86
250	10.11	35.022	26.95
300	9.51	34.951	27.0C
350	8.66	34.831	27.04
400	8.18	34.772	27.07
450	7.59	34.707	27.1C
500	7.16	34.662	27.13
550	6.90	34.660	27.16
600	6.49	34.635	27.2C
650	5.99	34.598	27.24
700	5.82	34.618	27.27
750	5.33	34.558	27.29
800	5.16	34.563	27.31
850	5.21	34.623	27.35
900	5.04	34.621	27.37
950	4.91	34.659	27.42
1000	4.90	34.699	27.45
1500	4.57	34.991	27.72
2000	3.63	34.981	27.81
2500	3.05	34.953	27.84
2510	3.05	34.953	27.84

WHI-STACS31-88 CTD 19 WHITING

Date 07 10 88 Latitude 6.672 N

Time 1857 Z Longitude 48.274 W

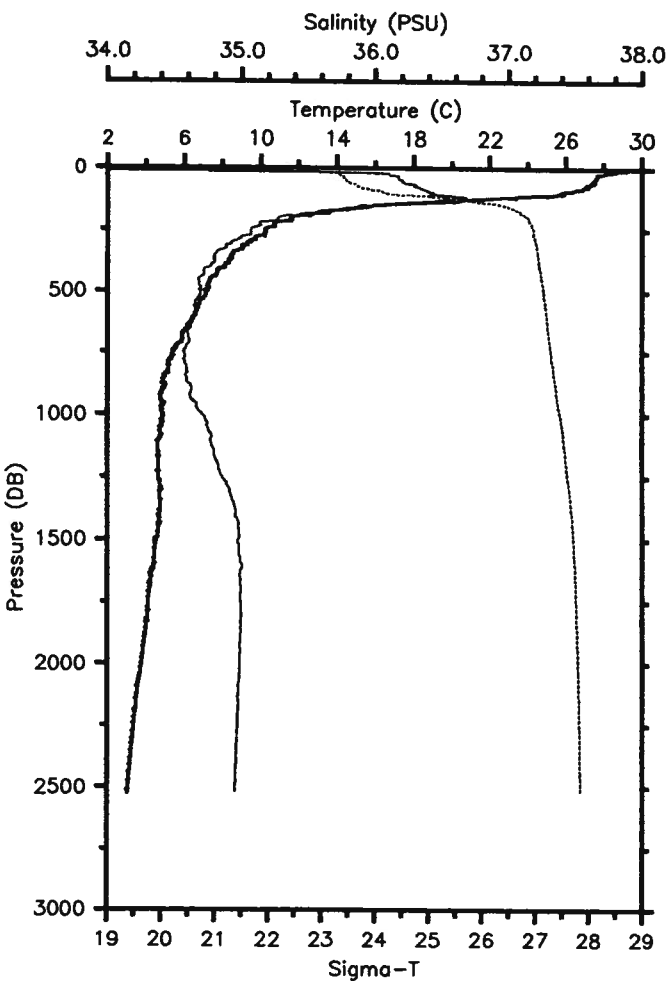


Prs	Tem	Sal	SigT
0	29.01	29.648	18.05
10	28.61	31.889	19.86
20	27.93	36.005	23.18
30	27.53	36.338	23.56
40	27.45	36.367	23.61
50	27.32	36.444	23.71
60	27.08	36.472	23.80
70	26.64	36.439	23.92
80	25.65	36.399	24.20
90	24.99	36.453	24.44
100	23.24	36.473	24.98
110	22.07	36.535	25.37
120	20.71	36.497	25.71
130	20.37	36.424	25.75
140	17.65	36.052	26.17
150	15.37	35.760	26.48
160	13.80	35.542	26.65
170	12.85	35.409	26.74
180	12.12	35.298	26.80
190	11.71	35.232	26.82
200	11.12	35.143	26.87
250	9.59	34.912	26.95
300	8.97	34.840	27.00
350	8.40	34.779	27.04
400	7.87	34.722	27.07
450	7.52	34.688	27.10
500	7.17	34.659	27.13
550	6.81	34.645	27.17
600	6.36	34.602	27.19
650	6.06	34.583	27.22
700	5.80	34.589	27.25
750	5.53	34.603	27.30
800	5.16	34.575	27.32
850	4.98	34.596	27.36
900	4.86	34.614	27.39
950	4.82	34.649	27.42
1000	4.86	34.710	27.46
1500	4.48	34.967	27.71
2000	3.71	34.983	27.80
2500	3.11	34.957	27.84
2514	3.09	34.956	27.84

WHI-STACS31-88 CTD 20 WHITING

Date 07 10 88 Latitude 6.219 N

Time 2343 Z Longitude 48.512 W

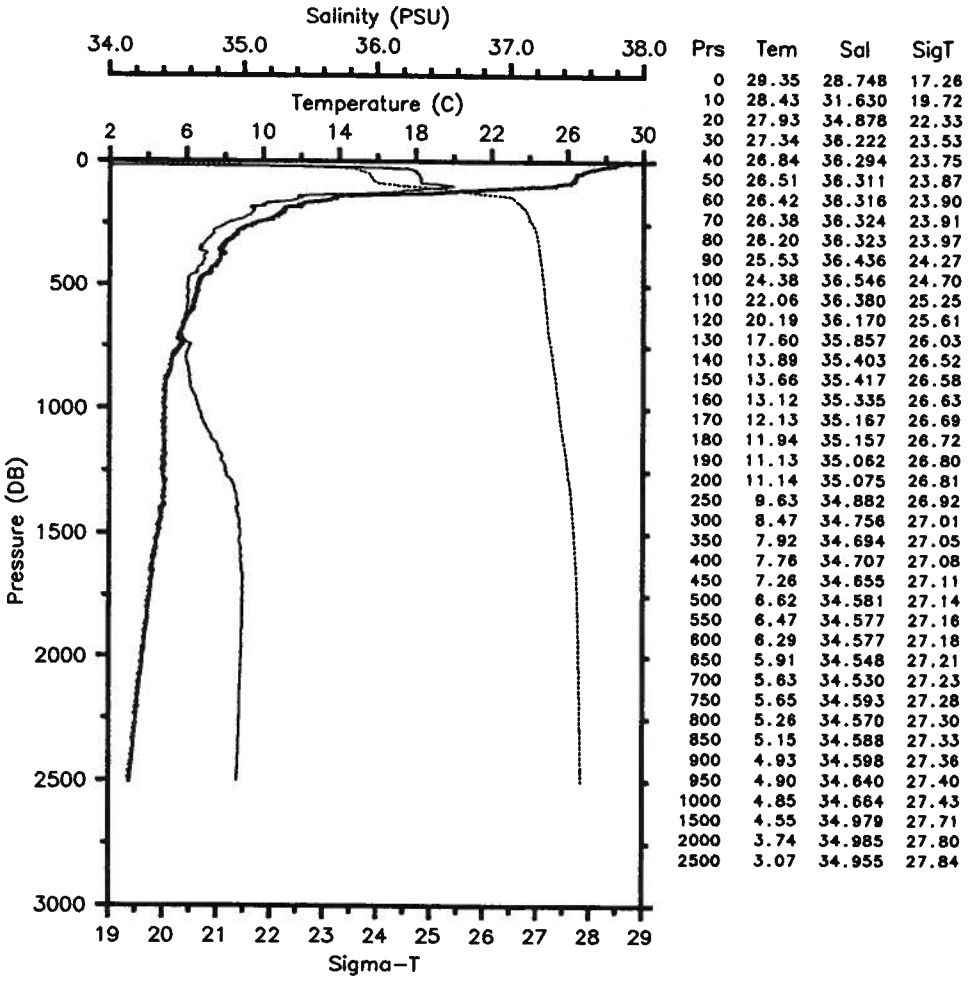


Prs	Tem	Sal	SigT
0	28.99	31.221	19.24
10	28.63	31.737	19.74
20	27.91	36.014	23.19
30	27.63	36.133	23.37
40	27.57	36.171	23.42
50	27.49	36.201	23.47
60	27.32	36.225	23.54
70	27.16	36.306	23.65
80	26.77	36.336	23.8C
90	26.05	36.392	24.07
100	25.67	36.415	24.21
110	23.73	36.543	24.89
120	21.98	36.571	25.42
130	20.35	36.440	25.77
140	17.79	36.140	26.2C
150	16.09	35.880	26.41
160	15.06	35.790	26.57
170	14.14	35.638	26.65
180	13.56	35.565	26.72
190	12.66	35.425	26.79
200	11.67	35.283	26.87
250	10.25	35.070	26.96
300	9.39	34.928	27.0C
350	8.52	34.803	27.04
400	8.13	34.769	27.07
450	7.36	34.679	27.12
500	7.18	34.695	27.15
550	6.79	34.652	27.17
600	6.52	34.646	27.21
650	6.16	34.617	27.23
700	5.88	34.608	27.26
750	5.41	34.570	27.29
800	5.18	34.585	27.33
850	4.95	34.588	27.35
900	4.90	34.627	27.39
950	4.87	34.655	27.42
1000	4.86	34.707	27.46
1500	4.52	34.976	27.71
2000	3.77	34.987	27.8C
2500	3.08	34.955	27.84
2520	3.07	34.955	27.84

WHI-STACS31-88 CTD 21 WHITING

Date 07 11 88 Latitude 5.782 N

Time 0423 Z Longitude 48.746 W

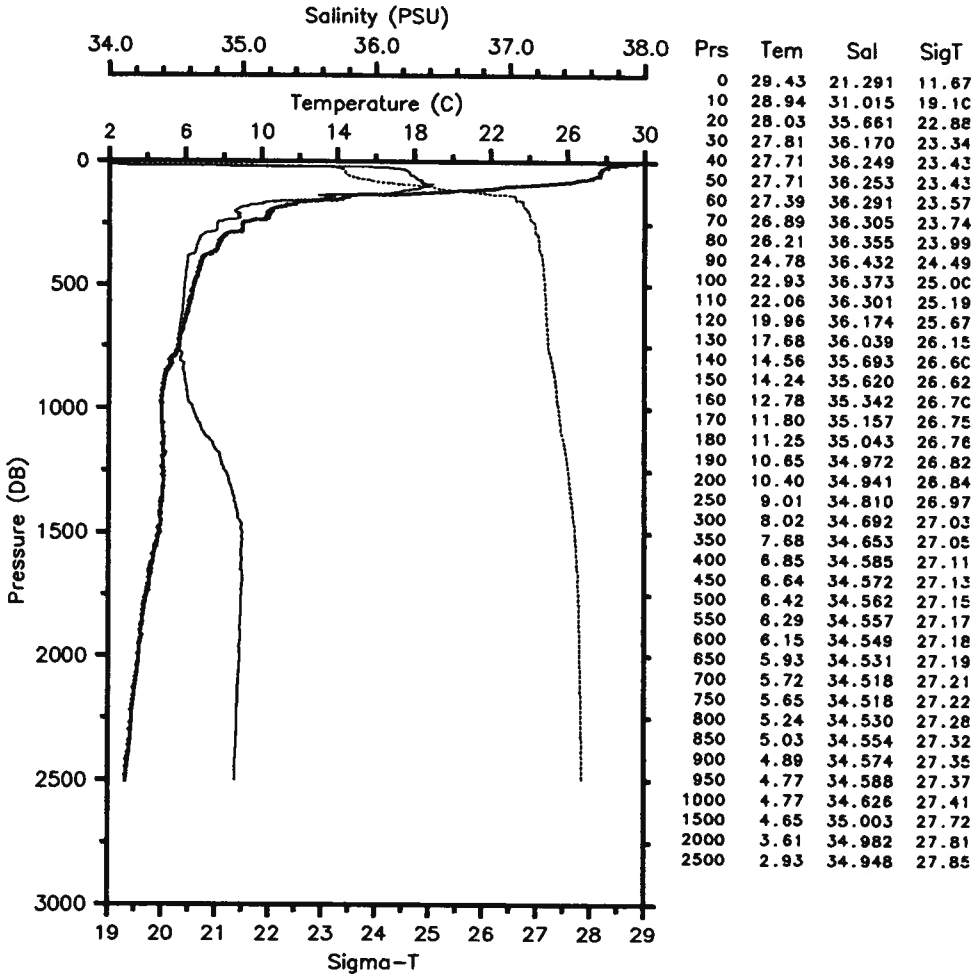


Prs	Tem	Sal	SigT
0	29.35	28.748	17.26
10	28.43	31.630	19.72
20	27.93	34.878	22.33
30	27.34	36.222	23.53
40	26.84	36.294	23.75
50	26.51	36.311	23.87
60	26.42	36.316	23.90
70	26.38	36.324	23.91
80	26.20	36.323	23.97
90	25.53	36.436	24.27
100	24.38	36.546	24.70
110	22.06	36.380	25.25
120	20.19	36.170	25.61
130	17.60	35.857	26.03
140	13.89	35.403	26.52
150	13.66	35.417	26.58
160	13.12	35.335	26.63
170	12.13	35.167	26.69
180	11.94	35.157	26.72
190	11.13	35.062	26.80
200	11.14	35.075	26.81
250	9.63	34.882	26.92
300	8.47	34.756	27.01
350	7.92	34.694	27.05
400	7.76	34.707	27.08
450	7.26	34.655	27.11
500	6.62	34.581	27.14
550	6.47	34.577	27.16
600	6.29	34.577	27.18
650	5.91	34.548	27.21
700	5.63	34.530	27.23
750	5.65	34.593	27.28
800	5.26	34.570	27.30
850	5.15	34.588	27.33
900	4.93	34.598	27.36
950	4.90	34.640	27.40
1000	4.85	34.664	27.43
1500	4.55	34.979	27.71
2000	3.74	34.985	27.80
2500	3.07	34.955	27.84

WHI-STACS31-88 CTD 22 WHITING

Date 07 11 88 Latitude 5.338 N

Time 0840 Z Longitude 48.984 W

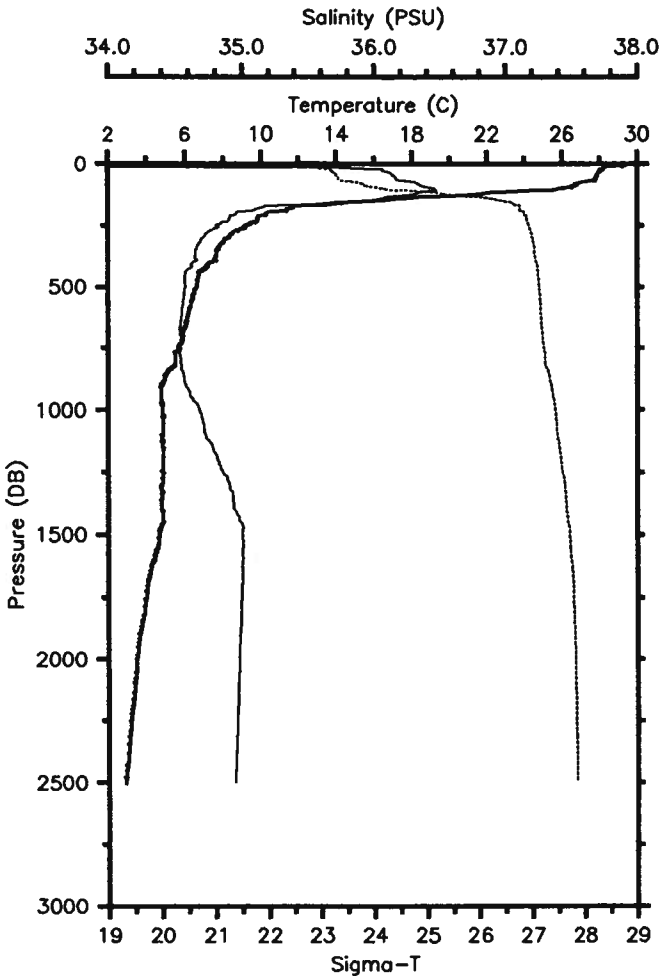


Prs	Tem	Sal	SigT
0	29.43	21.291	11.67
10	28.94	31.015	19.1C
20	28.03	35.661	22.88
30	27.81	36.170	23.34
40	27.71	36.249	23.43
50	27.71	36.253	23.43
60	27.39	36.291	23.57
70	26.89	36.305	23.74
80	26.21	36.355	23.99
90	24.78	36.432	24.49
100	22.93	36.373	25.0C
110	22.06	36.301	25.19
120	19.96	36.174	25.67
130	17.68	36.039	26.15
140	14.56	35.693	26.6C
150	14.24	35.620	26.62
160	12.78	35.342	26.7C
170	11.80	35.157	26.75
180	11.25	35.043	26.76
190	10.65	34.972	26.82
200	10.40	34.941	26.84
250	9.01	34.810	26.97
300	8.02	34.692	27.03
350	7.68	34.653	27.05
400	6.85	34.585	27.11
450	6.64	34.572	27.13
500	6.42	34.562	27.15
550	6.29	34.557	27.17
600	6.15	34.549	27.18
650	5.93	34.531	27.19
700	5.72	34.518	27.21
750	5.65	34.518	27.22
800	5.24	34.530	27.28
850	5.03	34.554	27.32
900	4.89	34.574	27.35
950	4.77	34.588	27.37
1000	4.77	34.626	27.41
1500	4.65	35.003	27.72
2000	3.61	34.982	27.81
2500	2.93	34.948	27.85

WHI-STACS31-88 CTD 23 WHITING

Date 07 11 88 Latitude 5.113 N

Time 1205 Z Longitude 49.147 W

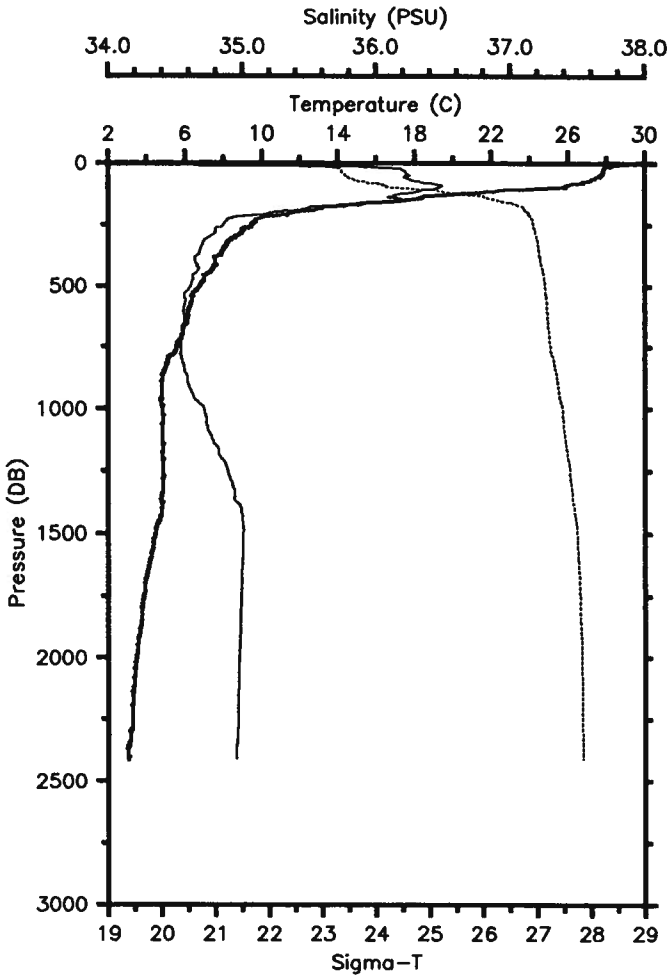


Prs	Tem	Sal	SigT
0	29.00	16.270	8.07
10	28.53	30.440	18.80
20	28.11	36.033	23.14
30	28.03	36.071	23.19
40	27.91	36.136	23.28
50	27.85	36.156	23.32
60	27.82	36.168	23.34
70	27.43	36.270	23.54
80	26.85	36.332	23.77
90	26.64	36.361	23.86
100	26.00	36.458	24.14
110	24.11	36.445	24.71
120	21.84	36.327	25.27
130	20.18	36.182	25.62
140	17.54	36.055	26.19
150	16.33	35.979	26.42
160	14.22	35.637	26.63
170	11.77	35.171	26.77
180	11.57	35.125	26.77
190	11.32	35.062	26.77
200	10.31	34.954	26.86
250	9.15	34.812	26.95
300	8.23	34.704	27.01
350	7.69	34.654	27.05
400	7.32	34.627	27.08
450	6.73	34.576	27.12
500	6.61	34.576	27.14
550	6.39	34.560	27.15
600	6.21	34.548	27.17
650	6.08	34.539	27.18
700	5.89	34.542	27.21
750	5.67	34.543	27.23
800	5.51	34.542	27.25
850	5.07	34.560	27.32
900	4.78	34.579	27.37
950	4.76	34.627	27.41
1000	4.84	34.680	27.44
1500	4.66	35.002	27.72
2000	3.47	34.977	27.82
2500	2.89	34.944	27.85

WHI-STACS31-88 CTD 24 WHITING

Date 07 11 88 Latitude 4.792 N

Time 1627 Z Longitude 49.217 W

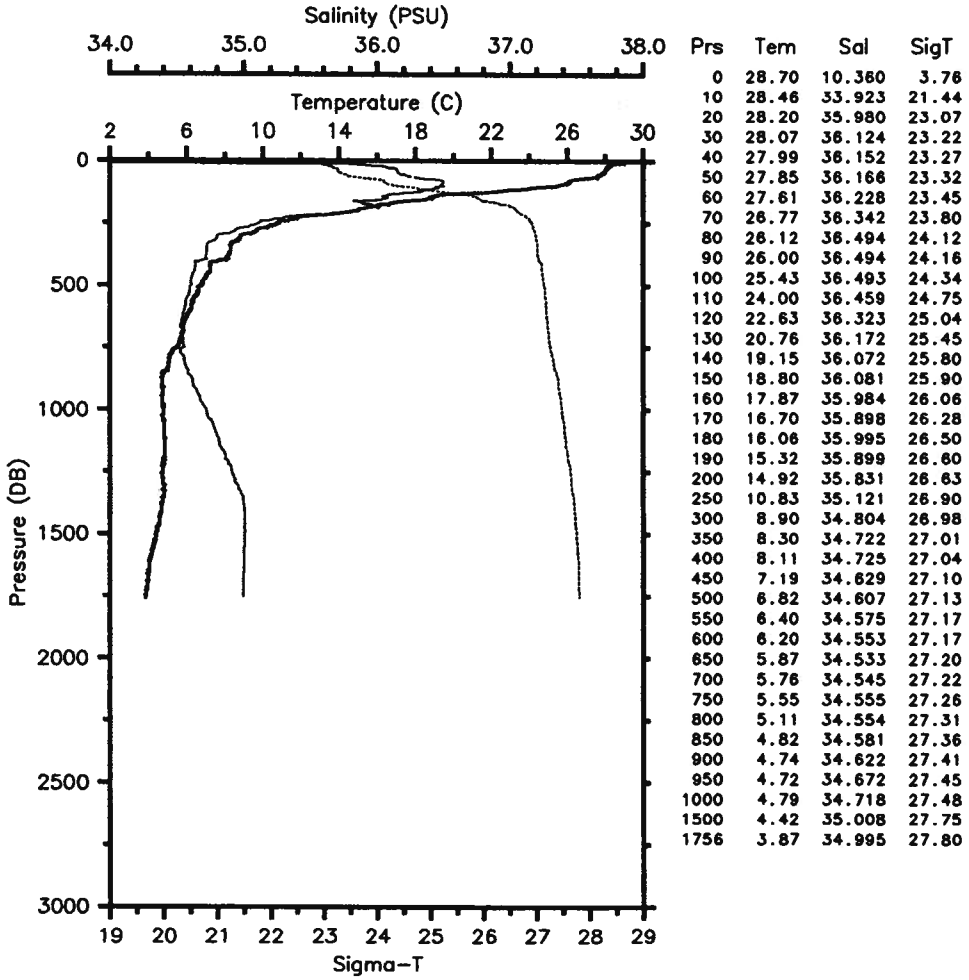


Prs	Tem	Sal	SigT
0	29.51	14.110	6.3C
10	28.33	35.330	22.54
20	27.91	36.166	23.3C
30	27.86	36.217	23.36
40	27.81	36.225	23.38
50	27.69	36.251	23.44
60	27.37	36.236	23.53
70	27.12	36.282	23.65
80	26.56	36.376	23.9C
90	25.96	36.491	24.17
100	25.22	36.455	24.38
110	22.48	36.340	25.1C
120	21.47	36.275	25.34
130	19.46	36.129	25.77
140	18.36	36.113	26.04
150	17.62	36.167	26.26
160	15.68	35.906	26.52
170	14.52	35.718	26.63
180	13.21	35.496	26.74
190	12.80	35.434	26.77
200	11.64	35.223	26.83
250	9.49	34.856	26.93
300	8.63	34.758	26.99
350	8.00	34.685	27.03
400	7.57	34.650	27.06
450	7.16	34.647	27.12
500	6.79	34.614	27.14
550	6.37	34.571	27.17
600	6.19	34.560	27.18
650	6.12	34.569	27.2C
700	5.84	34.555	27.22
750	5.58	34.542	27.24
800	5.14	34.550	27.3C
850	4.92	34.571	27.34
900	4.80	34.596	27.38
950	4.79	34.638	27.41
1000	4.84	34.716	27.47
1500	4.48	35.008	27.74
2000	3.48	34.977	27.82
2412	3.04	34.955	27.85

WHI-STACS31-88 CTD 25 WHITING

Date 07 11 88 Latitude 4.558 N

Time 1936 Z Longitude 49.387 W

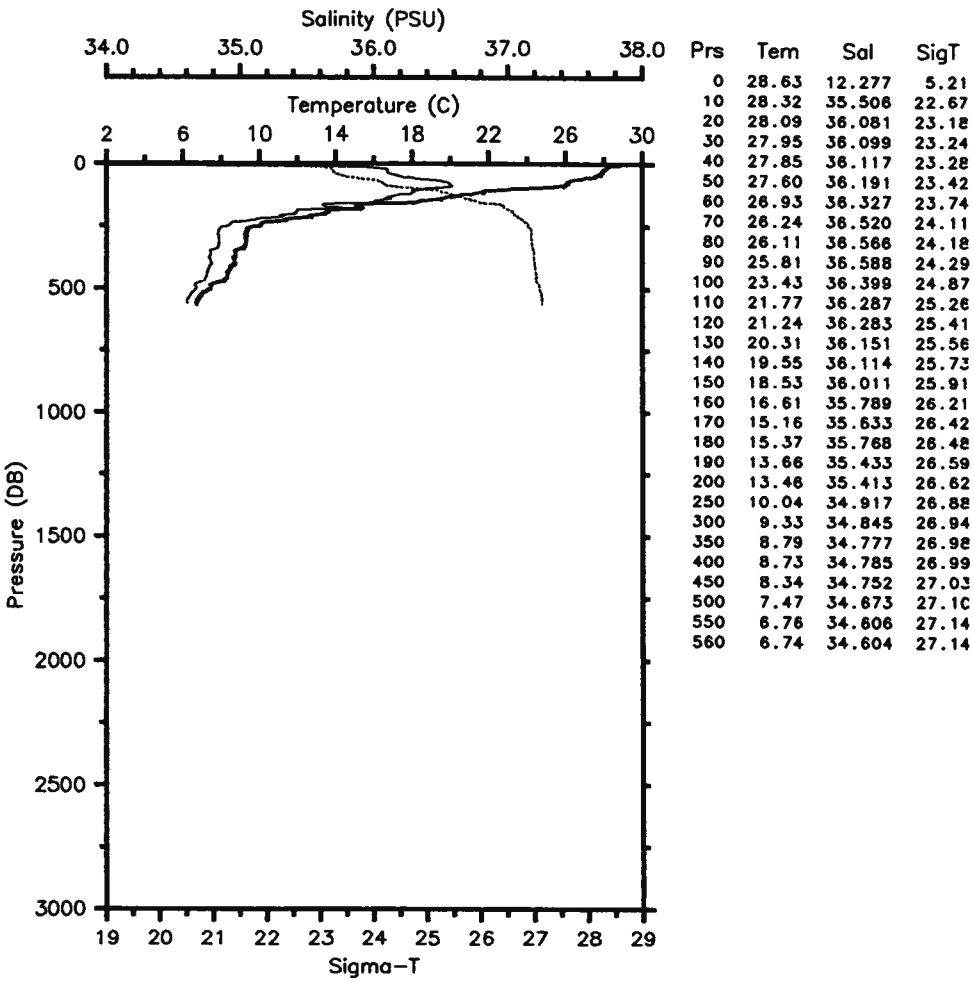


Prs	Tem	Sal	SigT
0	28.70	10.360	3.76
10	28.46	33.923	21.44
20	28.20	35.980	23.07
30	28.07	36.124	23.22
40	27.99	36.152	23.27
50	27.85	36.166	23.32
60	27.61	36.228	23.45
70	26.77	36.342	23.80
80	26.12	36.494	24.12
90	26.00	36.494	24.16
100	25.43	36.493	24.34
110	24.00	36.459	24.75
120	22.63	36.323	25.04
130	20.76	36.172	25.45
140	19.15	36.072	25.80
150	18.80	36.081	25.90
160	17.87	35.984	26.06
170	16.70	35.898	26.28
180	16.06	35.995	26.50
190	15.32	35.899	26.60
200	14.92	35.831	26.63
250	10.83	35.121	26.90
300	8.90	34.804	26.98
350	8.30	34.722	27.01
400	8.11	34.725	27.04
450	7.19	34.629	27.10
500	6.82	34.607	27.13
550	6.40	34.575	27.17
600	6.20	34.553	27.17
650	5.87	34.533	27.20
700	5.76	34.545	27.22
750	5.55	34.555	27.26
800	5.11	34.554	27.31
850	4.82	34.581	27.36
900	4.74	34.622	27.41
950	4.72	34.672	27.45
1000	4.79	34.718	27.48
1500	4.42	35.008	27.75
1756	3.87	34.995	27.80

WHI-STACS31-88 CTD 26 WHITING

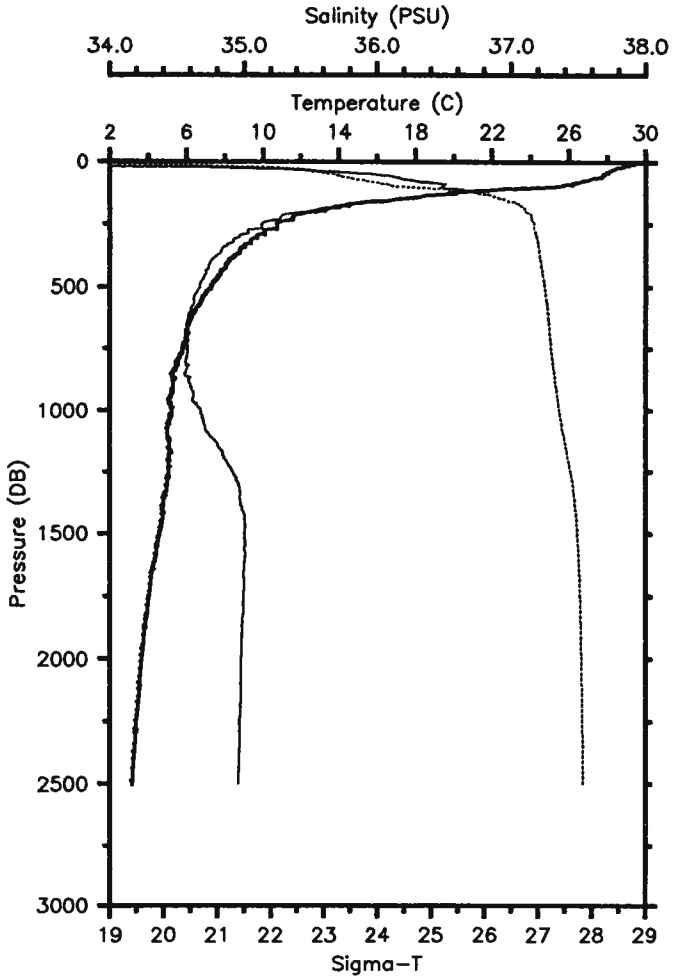
Date 07 11 88 Latitude 4.249 N

Time 2246 Z Longitude 49.588 W



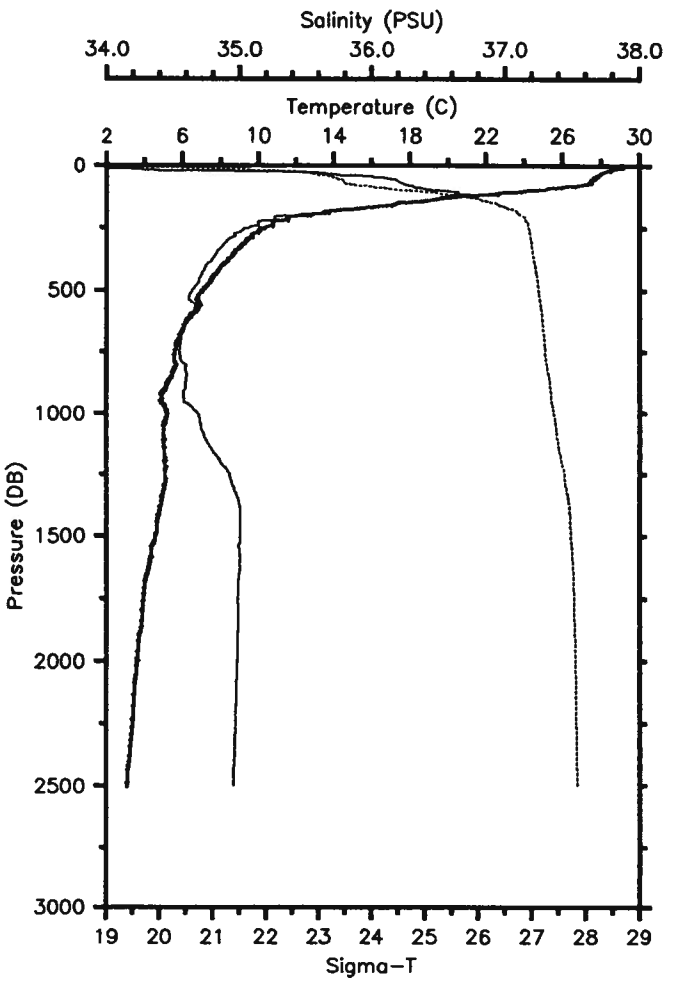
Prs	Tem	Sal	SigT
0	28.63	12.277	5.21
10	28.32	35.506	22.67
20	28.09	36.081	23.18
30	27.95	36.099	23.24
40	27.85	36.117	23.28
50	27.60	36.191	23.42
60	26.93	36.327	23.74
70	26.24	36.520	24.11
80	26.11	36.566	24.18
90	25.81	36.588	24.29
100	23.43	36.398	24.87
110	21.77	36.287	25.26
120	21.24	36.283	25.41
130	20.31	36.151	25.56
140	19.55	36.114	25.73
150	18.53	36.011	25.91
160	16.61	35.789	26.21
170	15.16	35.633	26.42
180	15.37	35.768	26.48
190	13.66	35.433	26.59
200	13.46	35.413	26.62
250	10.04	34.917	26.88
300	9.33	34.845	26.94
350	8.79	34.777	26.98
400	8.73	34.785	26.99
450	8.34	34.752	27.03
500	7.47	34.673	27.10
550	6.76	34.606	27.14
560	6.74	34.604	27.14

WHI–STACS31–88 CTD 27 WHITING
Date 07 13 88 Latitude 8.861 N
Time 0127 Z Longitude 51.907 W



Prs	Tem	Sal	SigT
0	29.40	27.857	16.58
10	29.22	31.449	19.33
20	28.73	34.163	21.53
30	28.33	35.314	22.53
40	28.03	35.675	22.90
50	27.80	35.983	23.20
60	27.65	36.134	23.36
70	27.05	36.209	23.61
80	26.49	36.348	23.90
90	26.03	36.514	24.17
100	25.10	36.483	24.43
110	22.38	36.642	25.36
120	20.48	36.533	25.80
130	19.35	36.435	26.03
140	18.17	36.285	26.22
150	17.10	36.150	26.37
160	15.70	35.924	26.53
170	14.62	35.766	26.65
180	14.06	35.674	26.70
190	13.37	35.553	26.75
200	12.85	35.469	26.79
250	10.78	35.133	26.92
300	9.71	34.967	26.98
350	8.82	34.836	27.02
400	8.18	34.752	27.05
450	7.77	34.717	27.09
500	7.29	34.670	27.12
550	6.81	34.626	27.15
600	6.44	34.602	27.18
650	6.13	34.576	27.20
700	6.02	34.583	27.22
750	5.82	34.579	27.24
800	5.53	34.566	27.27
850	5.24	34.561	27.30
900	5.29	34.601	27.32
950	5.14	34.621	27.36
1000	5.22	34.677	27.39
1500	4.60	35.007	27.73
2000	3.65	34.980	27.81
2500	3.16	34.959	27.84

WHI–STACS31–88 CTD 28 WHITING
Date 07 13 88 Latitude 8.446 N
Time 0627 Z Longitude 52.172 W

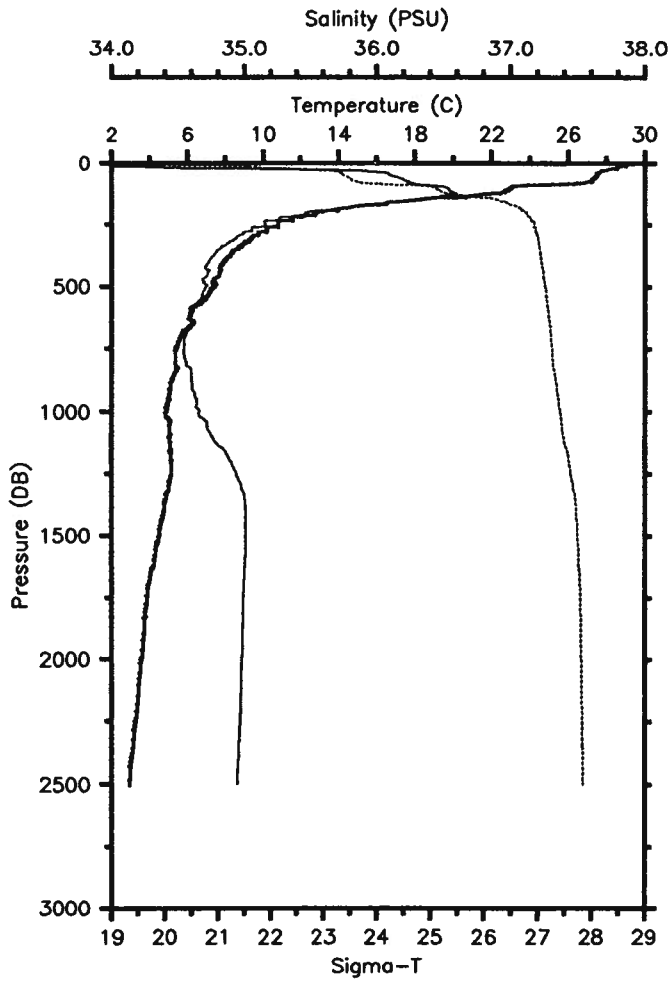


Prs	Tem	Sal	SigT
0	28.98	29.320	17.81
10	28.90	33.125	20.69
20	28.47	34.466	21.84
30	28.07	35.585	22.81
40	27.84	35.866	23.10
50	27.69	36.108	23.33
60	27.47	36.198	23.47
70	27.44	36.234	23.51
80	26.76	36.295	23.77
90	25.46	36.371	24.24
100	24.31	36.512	24.70
110	22.82	36.631	25.23
120	21.43	36.591	25.59
130	20.02	36.517	25.91
140	19.05	36.430	26.10
150	17.46	36.202	26.33
160	17.06	36.180	26.41
170	15.67	35.943	26.55
180	13.98	35.660	26.70
190	13.64	35.609	26.73
200	12.70	35.440	26.79
250	10.37	35.071	26.94
300	9.39	34.912	26.99
350	8.74	34.828	27.03
400	8.07	34.750	27.07
450	7.58	34.701	27.10
500	7.06	34.644	27.13
550	6.82	34.637	27.16
600	6.46	34.619	27.19
650	6.06	34.575	27.21
700	5.80	34.562	27.23
750	5.60	34.553	27.25
800	5.67	34.597	27.28
850	5.43	34.605	27.31
900	5.13	34.595	27.34
950	4.88	34.587	27.36
1000	5.18	34.690	27.41
1500	4.58	35.008	27.73
2000	3.63	34.985	27.81
2500	3.10	34.958	27.84

WHI-STACS31-88 CTD 29 WHITING

Date 07 13 88 Latitude 8.032 N

Time 1130 Z Longitude 52.436 W

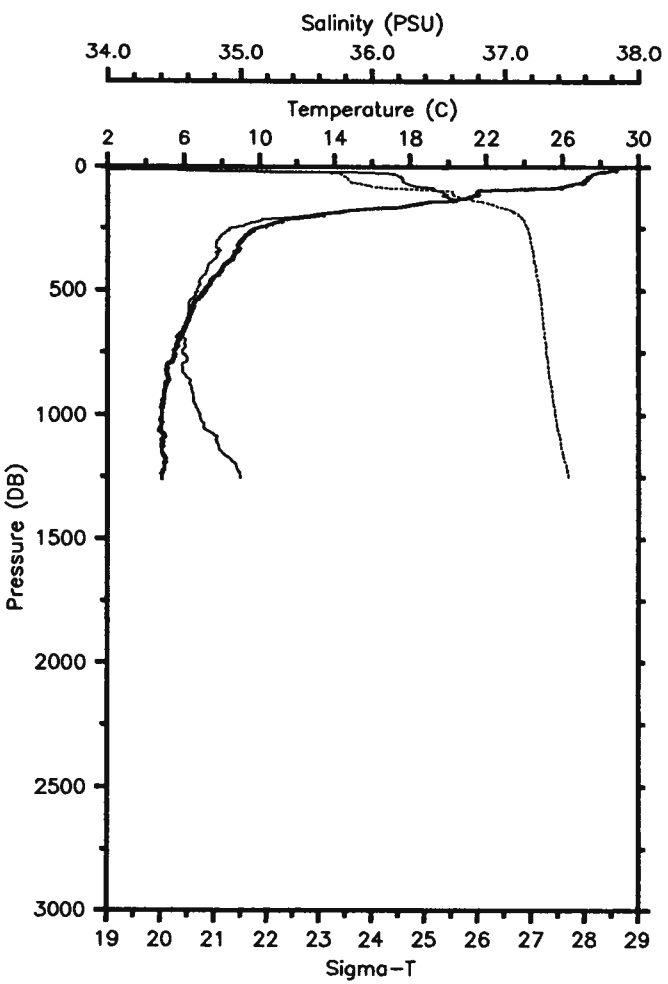


Prs	Tem	Sal	SigT
0	28.79	31.003	19.14
10	28.96	33.366	20.85
20	28.52	34.578	21.91
30	27.81	35.870	23.11
40	27.55	36.092	23.36
50	27.51	36.111	23.39
60	27.37	36.178	23.49
70	27.27	36.211	23.54
80	26.70	36.256	23.76
90	24.09	36.389	24.67
100	23.01	36.528	25.09
110	22.72	36.538	25.18
120	22.57	36.575	25.26
130	21.32	36.545	25.58
140	19.92	36.576	25.99
150	18.20	36.362	26.27
160	16.85	36.115	26.41
170	16.25	36.039	26.49
180	14.70	35.791	26.65
190	13.98	35.669	26.71
200	12.84	35.464	26.79
250	10.81	35.157	26.93
300	9.42	34.945	27.01
350	8.63	34.820	27.04
400	7.95	34.733	27.07
450	7.69	34.725	27.10
500	7.42	34.715	27.14
550	6.97	34.674	27.17
600	6.22	34.588	27.20
650	6.21	34.624	27.23
700	5.68	34.555	27.24
750	5.41	34.547	27.27
800	5.38	34.560	27.28
850	5.31	34.598	27.32
900	5.10	34.605	27.35
950	5.01	34.642	27.39
1000	4.87	34.660	27.42
1500	4.51	35.013	27.74
2000	3.56	34.982	27.82
2500	2.95	34.949	27.85

WHI-STACS31-88 CTD 30 WHITING

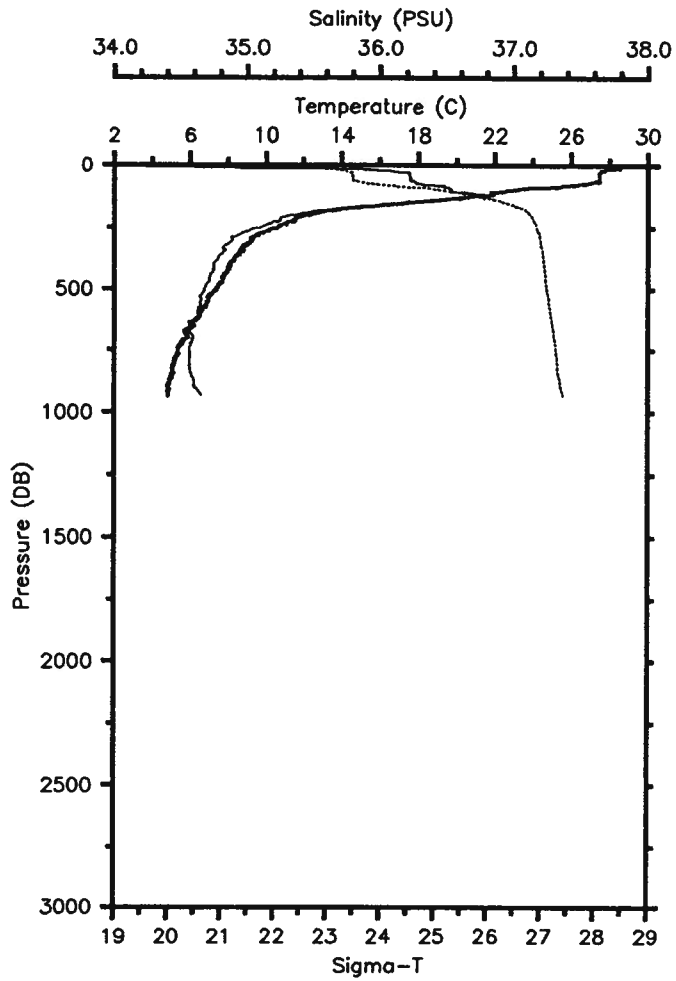
Date 07 14 88 Latitude 7.662 N

Time 0136 Z Longitude 52.666 W



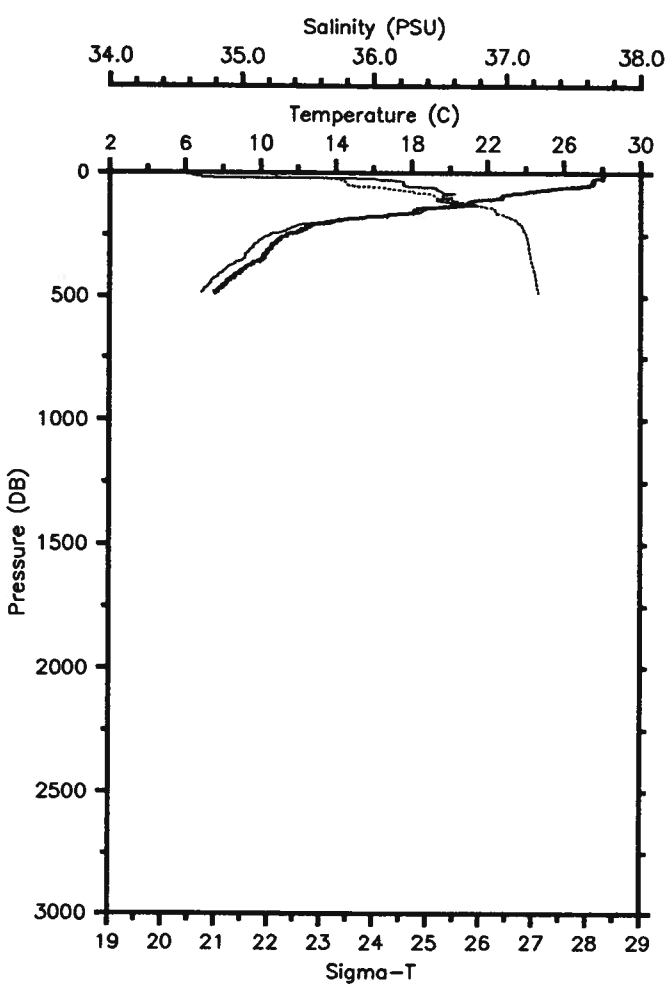
Prs	Tem	Sal	SigT
0	28.77	31.462	19.49
10	28.84	33.262	20.81
20	28.22	35.479	22.68
30	27.60	36.173	23.41
40	27.37	36.224	23.52
50	27.29	36.228	23.55
60	27.19	36.235	23.59
70	26.60	36.282	23.81
80	26.09	36.348	24.02
90	24.63	36.444	24.55
100	21.54	36.535	25.51
110	21.59	36.556	25.52
120	21.16	36.546	25.63
130	20.65	36.624	25.83
140	19.80	36.538	25.99
150	18.57	36.408	26.21
160	17.84	36.303	26.31
170	16.33	36.064	26.49
180	14.62	35.765	26.65
190	13.73	35.597	26.71
200	13.07	35.509	26.77
250	9.80	34.913	26.92
300	9.07	34.827	26.97
350	8.63	34.806	27.03
400	8.10	34.752	27.06
450	7.54	34.699	27.10
500	7.08	34.667	27.15
550	6.53	34.606	27.17
600	6.31	34.599	27.20
650	6.01	34.581	27.22
700	5.72	34.580	27.26
750	5.45	34.560	27.27
800	5.11	34.556	27.31
850	5.16	34.595	27.34
900	4.99	34.631	27.38
950	4.89	34.649	27.41
1000	4.86	34.698	27.45
1256	4.86	34.999	27.69

WHI-STACS31-88 CTD 31 WHITING
Date 07 14 88 Latitude 7.438 N
Time 0444 Z Longitude 52.793 W



Prs	Tem	Sal	SigT
0	28.04	33.131	20.98
10	28.46	34.746	22.05
20	27.66	36.017	23.27
30	27.47	36.221	23.49
40	27.46	36.222	23.49
50	27.47	36.226	23.49
60	27.46	36.226	23.49
70	26.91	36.266	23.70
80	25.78	36.465	24.21
90	23.81	36.514	24.85
100	22.70	36.523	25.18
110	21.93	36.681	25.52
120	21.65	36.827	25.71
130	20.27	36.606	25.92
140	18.88	36.497	26.20
150	17.49	36.252	26.36
160	16.18	36.030	26.50
170	14.91	35.809	26.62
180	13.76	35.616	26.72
190	12.90	35.468	26.78
200	12.36	35.371	26.81
250	10.63	35.105	26.92
300	9.25	34.893	26.99
350	8.61	34.814	27.03
400	8.09	34.748	27.06
450	7.76	34.722	27.09
500	7.35	34.678	27.12
550	6.94	34.650	27.15
600	6.53	34.626	27.19
650	6.10	34.607	27.23
700	5.83	34.595	27.25
750	5.37	34.568	27.29
800	5.16	34.567	27.31
850	5.05	34.580	27.34
900	4.82	34.605	27.38
932	4.83	34.659	27.42

WHI-STACS31-88 CTD 32 WHITING
Date 07 14 88 Latitude 7.231 N
Time 0712 Z Longitude 52.937 W

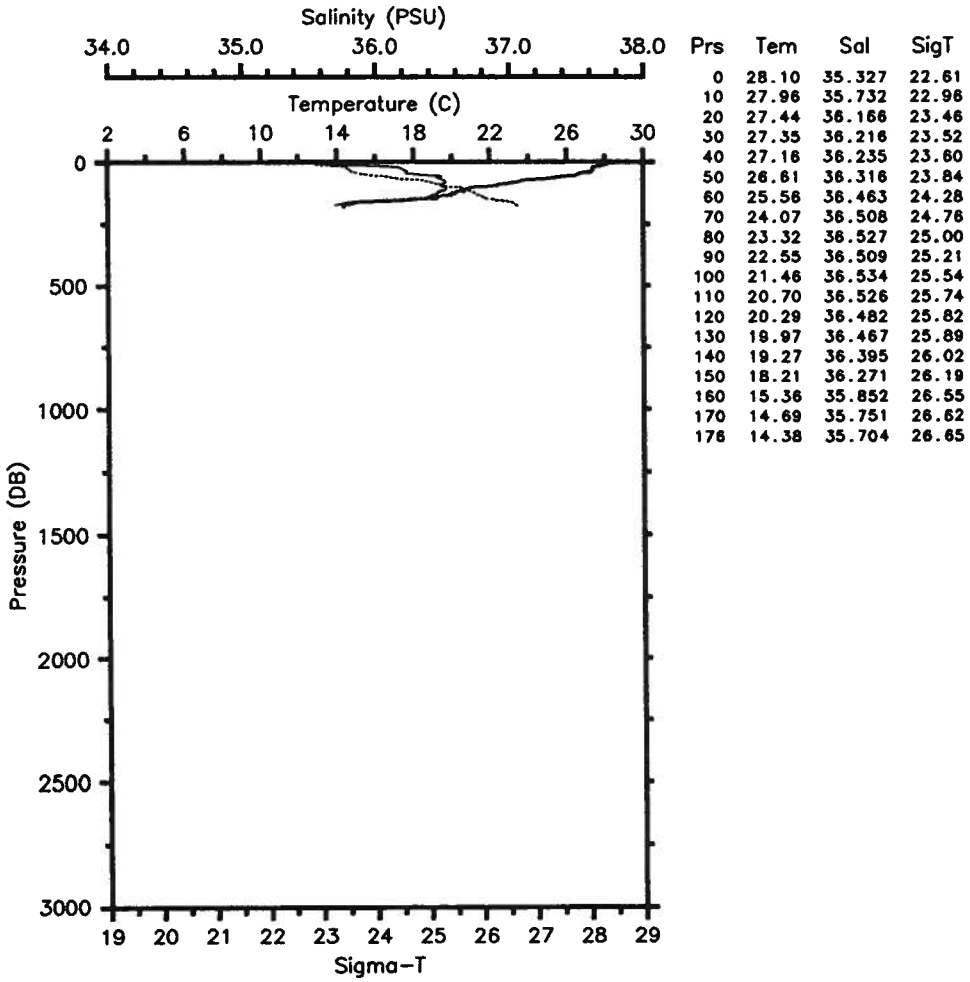


Prs	Tem	Sal	SigT
0	27.73	34.303	21.96
10	28.02	34.633	22.12
20	28.03	34.863	22.28
30	27.53	36.117	23.39
40	27.52	36.225	23.47
50	27.24	36.223	23.57
60	25.75	36.472	24.22
70	24.63	36.501	24.59
80	23.83	36.520	24.85
90	22.87	36.528	25.13
100	22.77	36.588	25.21
110	21.65	36.468	25.43
120	20.97	36.590	25.72
130	20.84	36.780	25.89
140	19.23	36.550	26.15
150	18.22	36.384	26.28
160	18.06	36.354	26.29
170	16.78	36.136	26.44
180	15.45	35.903	26.57
190	14.28	35.705	26.67
200	13.71	35.606	26.72
250	11.40	35.215	26.87
300	10.59	35.086	26.92
350	10.06	35.009	26.95
400	8.92	34.858	27.02
450	8.14	34.757	27.06
486	7.59	34.698	27.10

WHI-STACS31-88 CTD 33 WHITING

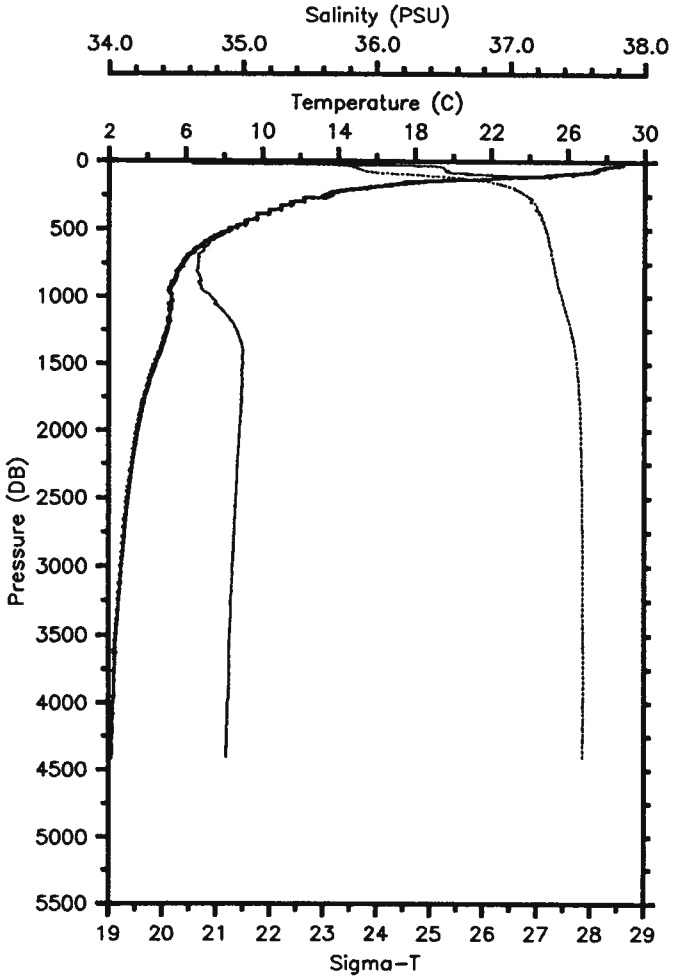
Date 07 14 88 Latitude 7.008 N

Time 0903 Z Longitude 53.055 W



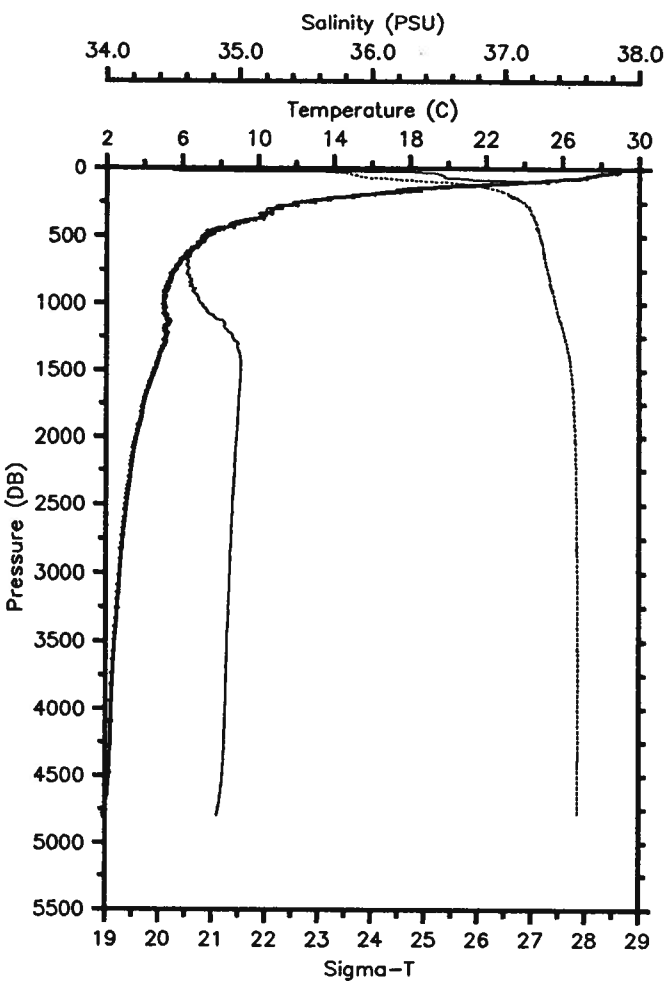
Prs	Tem	Sal	SigT
0	28.10	35.327	22.61
10	27.96	35.732	22.98
20	27.44	36.166	23.46
30	27.35	36.216	23.52
40	27.18	36.235	23.60
50	26.61	36.316	23.84
60	25.58	36.463	24.28
70	24.07	36.508	24.76
80	23.32	36.527	25.00
90	22.55	36.509	25.21
100	21.46	36.534	25.54
110	20.70	36.526	25.74
120	20.29	36.482	25.82
130	19.97	36.467	25.89
140	19.27	36.395	26.02
150	18.21	36.271	26.19
160	15.36	35.852	26.55
170	14.69	35.751	26.62
178	14.38	35.704	26.65

MIT–STACS32–88 CTD 1 MT MITCHELL
Date 09 13 88 Latitude 12.200 N
Time 1254 Z Longitude 55.447 W



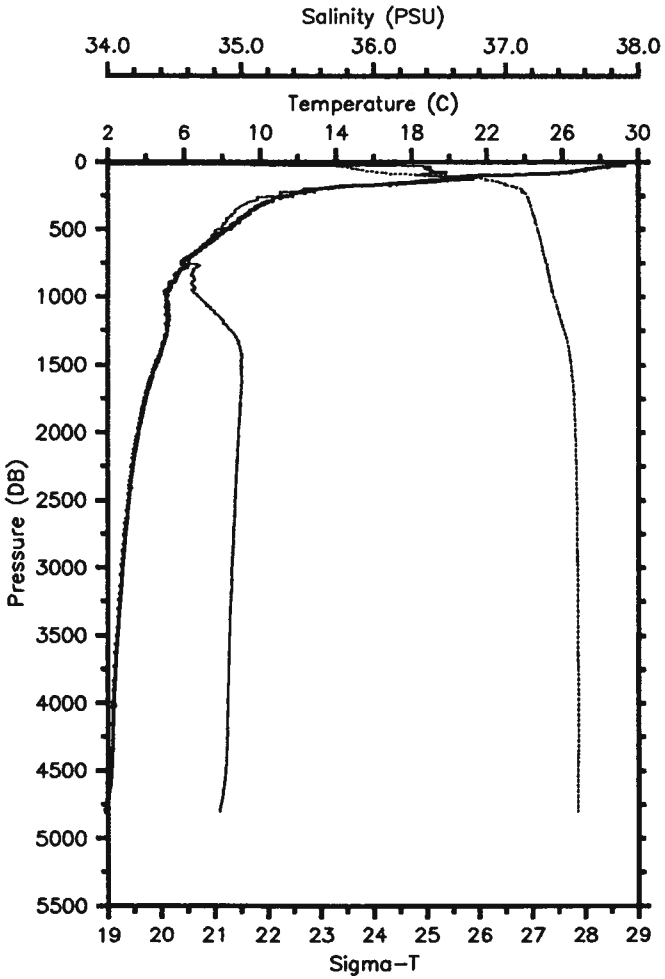
Prs	Tem	Sal	SigT
0	28.70	34.618	21.88
10	28.67	34.619	21.89
20	28.66	34.621	21.90
30	28.48	36.255	23.18
40	27.97	36.477	23.52
50	27.68	36.504	23.63
60	27.54	36.510	23.68
70	27.37	36.541	23.76
80	26.84	36.543	23.93
90	26.27	36.721	24.25
100	25.17	36.819	24.66
110	24.47	37.146	25.13
120	22.72	37.025	25.55
130	21.64	36.843	25.72
140	19.94	36.467	25.90
150	18.40	36.208	26.10
160	17.68	36.177	26.25
170	16.89	36.061	26.36
180	16.30	36.000	26.45
190	15.66	35.934	26.54
200	15.20	35.828	26.57
250	13.26	35.598	26.80
300	11.53	35.355	26.95
350	11.03	35.285	26.99
400	9.74	35.113	27.08
450	9.14	35.032	27.12
500	8.28	34.919	27.17
550	7.54	34.823	27.20
600	6.97	34.753	27.23
650	6.51	34.709	27.26
700	6.10	34.667	27.28
750	5.89	34.668	27.30
800	5.63	34.659	27.33
850	5.52	34.675	27.36
900	5.29	34.675	27.38
950	5.20	34.701	27.42
1000	5.27	34.760	27.45
1500	4.45	35.002	27.74
2000	3.52	34.977	27.82
2500	3.00	34.950	27.85
3000	2.67	34.927	27.86
3500	2.39	34.905	27.86
4000	2.23	34.889	27.86
4408	2.13	34.875	27.86

MIT–STACS32–88 CTD 2 MT MITCHELL
Date 09 13 88 Latitude 11.547 N
Time 2235 Z Longitude 54.270 W



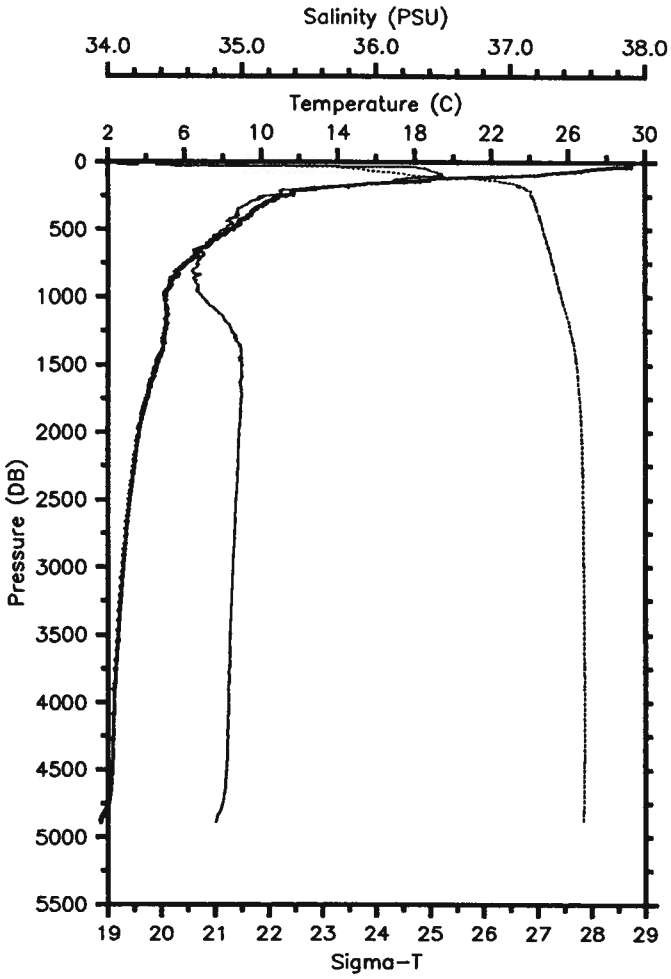
Prs	Tem	Sal	SigT
0	28.82	34.454	21.72
10	28.88	34.499	21.73
20	28.85	34.524	21.76
30	28.49	36.363	23.26
40	27.94	36.498	23.54
50	27.58	36.528	23.68
60	27.28	36.551	23.80
70	26.82	36.564	23.98
80	25.75	36.724	24.42
90	25.23	37.020	24.80
100	23.98	37.031	25.19
110	22.40	37.060	25.67
120	21.70	37.014	25.84
130	20.29	36.792	26.05
140	19.28	36.596	26.17
150	18.03	36.327	26.28
160	17.33	36.258	26.40
170	17.15	36.237	26.43
180	16.47	36.180	26.55
190	15.82	35.995	26.55
200	15.00	35.882	26.65
250	12.06	35.405	26.89
300	10.72	35.202	26.98
350	10.28	35.165	27.03
400	9.03	34.951	27.07
450	7.92	34.780	27.11
500	7.28	34.711	27.15
550	6.84	34.683	27.19
600	6.46	34.639	27.21
650	6.15	34.634	27.24
700	5.86	34.613	27.26
750	5.61	34.616	27.30
800	5.43	34.622	27.33
850	5.26	34.629	27.35
900	5.22	34.665	27.38
950	5.09	34.683	27.41
1000	5.03	34.706	27.44
1500	4.54	35.011	27.74
2000	3.60	34.980	27.81
2500	3.08	34.954	27.84
3000	2.75	34.934	27.85
3500	2.47	34.912	27.86
4000	2.29	34.897	27.87
4500	2.16	34.879	27.86
4800	1.88	34.840	27.85

MIT–STACS32–88 CTD 3 MT MITCHELL
Date 09 14 88 Latitude 10.813 N
Time 1034 Z Longitude 52.812 W



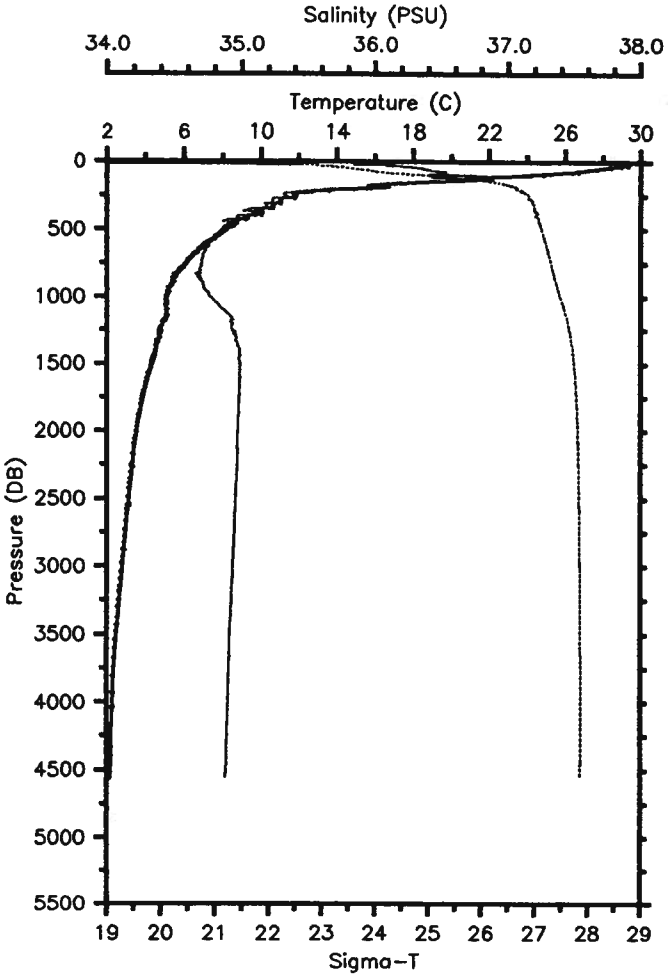
Prs	Tem	Sal	SigT
0	28.96	33.508	20.96
10	28.98	33.506	20.95
20	29.19	34.147	21.36
30	28.39	36.327	23.27
40	27.90	36.432	23.51
50	27.31	36.382	23.66
60	26.88	36.422	23.83
70	26.46	36.475	24.00
80	25.88	36.543	24.24
90	23.91	36.406	24.73
100	21.22	36.414	25.51
110	20.32	36.560	25.87
120	19.70	36.575	26.04
130	19.90	36.737	26.12
140	18.62	36.521	26.28
150	17.95	36.424	26.38
160	16.89	36.248	26.50
170	15.91	36.001	26.54
180	14.41	35.684	26.63
190	13.69	35.606	26.72
200	12.85	35.486	26.80
250	11.43	35.246	26.89
300	10.24	35.050	26.95
350	9.64	34.969	26.99
400	9.20	34.934	27.03
450	8.72	34.875	27.07
500	8.17	34.824	27.11
550	7.70	34.778	27.14
600	7.29	34.736	27.17
650	6.87	34.701	27.20
700	6.36	34.645	27.23
750	5.87	34.612	27.26
800	5.79	34.637	27.29
850	5.53	34.626	27.32
900	5.31	34.631	27.35
950	5.19	34.655	27.38
1000	5.09	34.683	27.41
1500	4.49	35.002	27.73
2000	3.62	34.983	27.81
2500	3.10	34.955	27.84
3000	2.76	34.932	27.85
3500	2.50	34.914	27.86
4000	2.30	34.899	27.87
4500	2.19	34.882	27.86
4804	1.86	34.838	27.85

MIT–STACS32–88 CTD 4 MT MITCHELL
Date 09 14 88 Latitude 9.990 N
Time 2240 Z Longitude 51.232 W



Prs	Tem	Sal	SigT
0	29.17	34.064	21.31
10	29.14	34.064	21.32
20	29.12	34.126	21.37
30	29.28	35.455	22.31
40	28.16	36.303	23.32
50	27.19	36.380	23.7C
60	26.70	36.403	23.87
70	25.97	36.445	24.14
80	25.03	36.485	24.4e
90	24.54	36.480	24.6C
100	23.37	36.425	24.91
110	21.01	36.322	25.5C
120	19.40	36.214	25.8S
130	18.50	36.204	26.07
140	18.24	36.384	26.27
150	17.02	36.205	26.43
160	15.58	35.954	26.58
170	14.90	35.838	26.64
180	13.98	35.672	26.71
190	13.08	35.502	26.77
200	12.70	35.438	26.79
250	11.07	35.179	26.9C
300	10.25	35.054	26.9S
350	9.68	34.969	26.9e
400	9.32	34.956	27.03
450	8.88	34.915	27.07
500	8.46	34.861	27.1C
550	7.76	34.785	27.14
600	7.36	34.748	27.17
650	6.75	34.694	27.21
700	6.60	34.715	27.2S
750	6.11	34.668	27.28
800	5.69	34.644	27.31
850	5.64	34.668	27.34
900	5.28	34.658	27.37
950	5.08	34.667	27.4C
1000	4.98	34.700	27.44
1500	4.55	34.993	27.72
2000	3.62	34.980	27.81
2500	3.14	34.957	27.84
3000	2.79	34.934	27.8S
3500	2.52	34.912	27.8e
4000	2.33	34.901	27.87
4500	2.22	34.887	27.8e
4888	1.81	34.808	27.8S

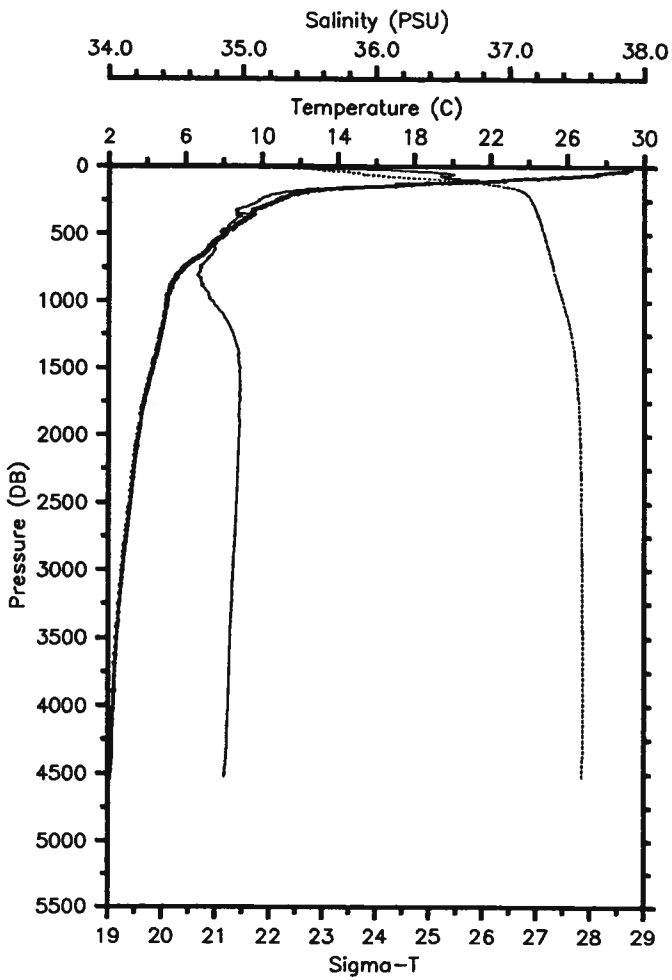
MIT–STACS32–88 CTD 5 MT MITCHELL
Date 09 15 88 Latitude 9.263 N
Time 0807 Z Longitude 49.978 W



Tem Sal SigT

Prs	Tem	Sal	SigT
0	28.66	32.404	20.23
10	28.93	32.398	20.14
20	29.35	34.789	21.79
30	28.98	36.164	22.95
40	28.30	36.277	23.26
50	27.70	36.369	23.52
60	27.00	36.391	23.77
70	26.67	36.532	23.98
80	25.80	36.500	24.23
90	24.84	36.554	24.57
100	24.13	36.831	24.99
110	21.68	36.426	25.39
120	20.93	36.509	25.66
130	20.93	36.887	25.95
140	19.92	36.693	26.08
150	18.31	36.403	26.27
160	17.29	36.260	26.41
170	16.19	36.054	26.51
180	15.68	36.013	26.60
190	15.77	36.105	26.65
200	15.00	35.904	26.67
250	11.77	35.324	26.89
300	11.04	35.227	26.94
350	10.00	35.055	27.00
400	9.20	34.962	27.06
450	8.71	34.910	27.09
500	8.21	34.857	27.13
550	7.64	34.793	27.16
600	7.19	34.763	27.21
650	6.73	34.723	27.24
700	6.41	34.714	27.27
750	6.14	34.699	27.30
800	5.78	34.687	27.33
850	5.56	34.692	27.36
900	5.39	34.713	27.40
950	5.20	34.739	27.44
1000	5.11	34.765	27.48
1500	4.34	34.986	27.74
2000	3.55	34.971	27.81
2500	3.14	34.956	27.84
3000	2.79	34.934	27.85
3500	2.50	34.912	27.86
4000	2.29	34.899	27.87
4500	2.18	34.881	27.86
4554	2.15	34.877	27.86

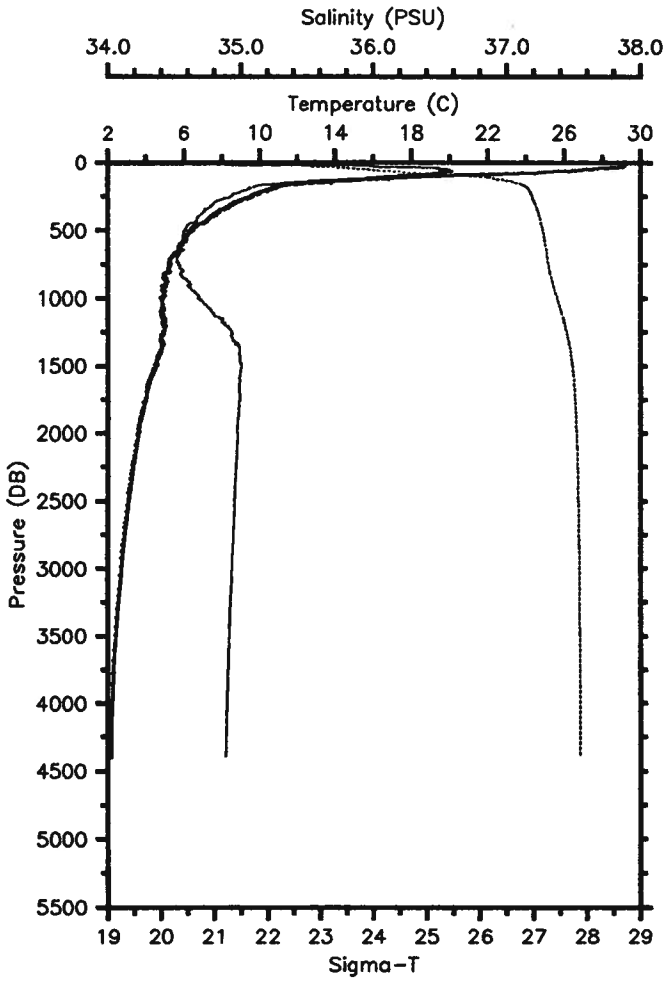
MIT–STACS32–88 CTD 6 MT MITCHELL
Date 09 15 88 Latitude 8.675 N
Time 1642 Z Longitude 48.810 W



Tem Sal SigT

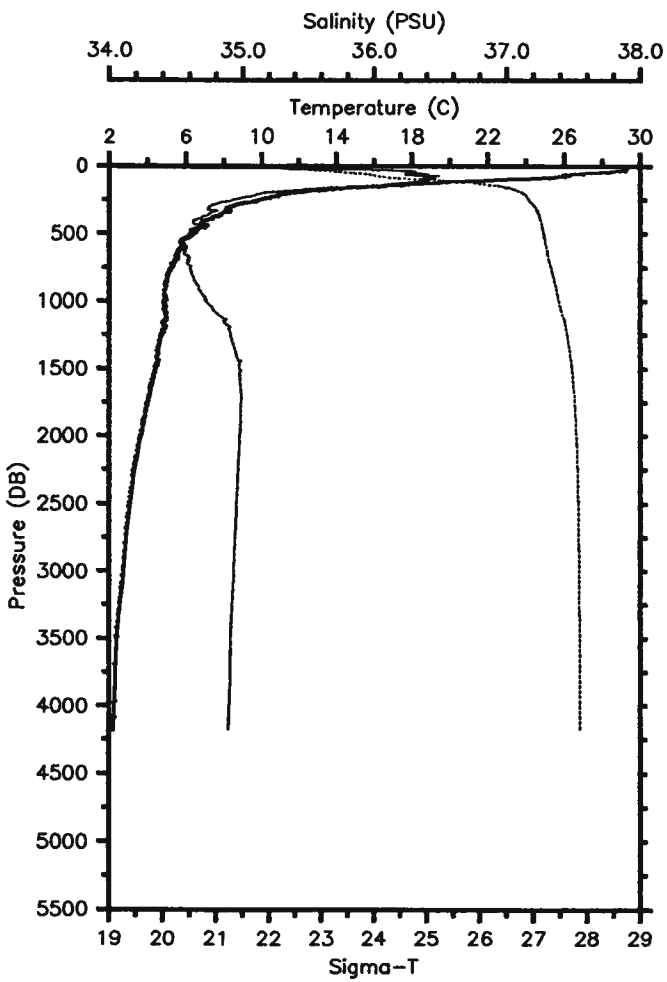
Prs	Tem	Sal	SigT
0	29.33	32.958	20.42
10	29.33	32.958	20.42
20	29.05	35.904	22.73
30	29.07	36.181	22.93
40	28.21	36.402	23.38
50	27.63	36.535	23.67
60	27.37	36.569	23.78
70	26.23	36.504	24.10
80	25.11	36.528	24.46
90	23.51	36.633	25.02
100	22.73	36.757	25.35
110	21.74	36.609	25.52
120	19.67	36.215	25.78
130	18.06	36.159	26.15
140	17.21	36.113	26.32
150	15.74	35.782	26.41
160	14.37	35.640	26.60
170	13.25	35.473	26.71
180	12.73	35.385	26.75
190	12.21	35.316	26.79
200	11.93	35.275	26.82
250	10.80	35.114	26.90
300	10.06	35.023	26.98
350	9.54	35.024	27.05
400	9.07	34.940	27.08
450	8.61	34.895	27.10
500	8.14	34.870	27.15
550	7.61	34.803	27.18
600	7.24	34.792	27.22
650	6.95	34.773	27.25
700	6.40	34.727	27.29
750	5.91	34.688	27.32
800	5.60	34.670	27.34
850	5.40	34.683	27.38
900	5.25	34.709	27.42
950	5.14	34.740	27.45
1000	5.05	34.779	27.49
1500	4.32	34.982	27.74
2000	3.58	34.978	27.81
2500	3.14	34.957	27.84
3000	2.74	34.931	27.85
3500	2.44	34.911	27.86
4000	2.25	34.896	27.87
4500	2.09	34.871	27.86
4524	2.09	34.869	27.86

MIT–STACS32–88 CTD 7 MT MITCHELL
Date 09 16 88 Latitude 8.007 N
Time 0225 Z Longitude 47.540 W



Prs	Tem	Sal	SigT
0	29.01	31.483	19.42
10	29.15	32.724	20.31
20	29.09	35.855	22.68
30	28.97	36.025	22.85
40	28.05	36.501	23.51
50	27.08	36.575	23.88
60	26.35	36.596	24.13
70	24.92	36.559	24.55
80	23.42	36.424	24.89
90	21.06	36.234	25.42
100	19.47	36.222	25.84
110	17.60	36.007	26.14
120	16.85	35.939	26.27
130	15.29	35.689	26.44
140	13.90	35.511	26.60
150	13.09	35.365	26.66
160	12.06	35.241	26.76
170	11.20	35.118	26.83
180	10.92	35.105	26.87
190	10.65	35.072	26.89
200	10.44	35.046	26.91
250	9.55	34.928	26.97
300	8.61	34.802	27.03
350	7.91	34.729	27.07
400	7.36	34.666	27.10
450	6.79	34.607	27.14
500	6.40	34.577	27.17
550	6.09	34.563	27.20
600	5.85	34.547	27.21
650	5.78	34.563	27.24
700	5.32	34.521	27.26
750	5.23	34.529	27.28
800	5.24	34.572	27.31
850	4.97	34.567	27.34
900	5.08	34.627	27.37
950	5.00	34.658	27.40
1000	4.83	34.682	27.44
1500	4.53	35.008	27.74
2000	3.62	34.979	27.81
2500	3.10	34.954	27.84
3000	2.73	34.933	27.86
3500	2.43	34.912	27.87
4000	2.23	34.896	27.87
4392	2.17	34.884	27.86

MIT–STACS32–88 CTD 8 MT MITCHELL
Date 09 16 88 Latitude 7.283 N
Time 0916 Z Longitude 47.912 W

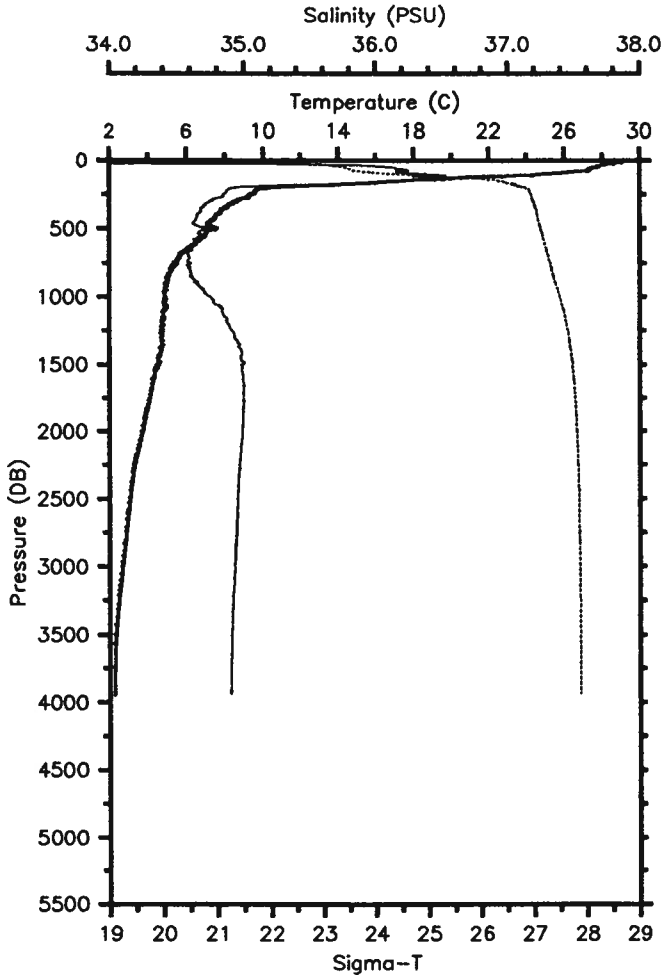


Prs	Tem	Sal	SigT
0	29.16	32.356	20.03
10	29.17	32.358	20.03
20	29.14	35.450	22.38
30	29.19	36.058	22.80
40	28.54	36.319	23.21
50	27.25	36.269	23.60
60	26.27	36.252	23.89
70	26.02	36.329	24.03
80	25.59	36.412	24.23
90	24.71	36.452	24.53
100	22.94	36.416	25.03
110	21.44	36.380	25.43
120	19.81	36.282	25.79
130	18.78	36.167	25.97
140	17.71	36.090	26.18
150	16.56	35.991	26.38
160	15.00	35.734	26.54
170	13.87	35.532	26.63
180	13.18	35.397	26.66
190	12.25	35.249	26.74
200	11.49	35.149	26.80
250	9.84	34.920	26.92
300	8.32	34.743	27.02
350	7.91	34.751	27.09
400	7.01	34.639	27.13
450	6.98	34.677	27.17
500	6.31	34.597	27.19
550	5.82	34.554	27.22
600	5.80	34.576	27.24
650	5.51	34.558	27.26
700	5.46	34.600	27.30
750	5.28	34.608	27.33
800	5.09	34.618	27.36
850	4.98	34.639	27.39
900	4.94	34.674	27.42
950	4.91	34.698	27.45
1000	4.86	34.724	27.47
1500	4.43	34.979	27.72
2000	3.65	34.982	27.81
2500	3.10	34.954	27.84
3000	2.76	34.935	27.86
3500	2.39	34.912	27.87
4000	2.26	34.898	27.87
4174	2.22	34.892	27.87

MIT–STACS32–88 CTD 9 MT MITCHELL

Date 09 16 88 Latitude 6.597 N

Time 1515 Z Longitude 48.280 W

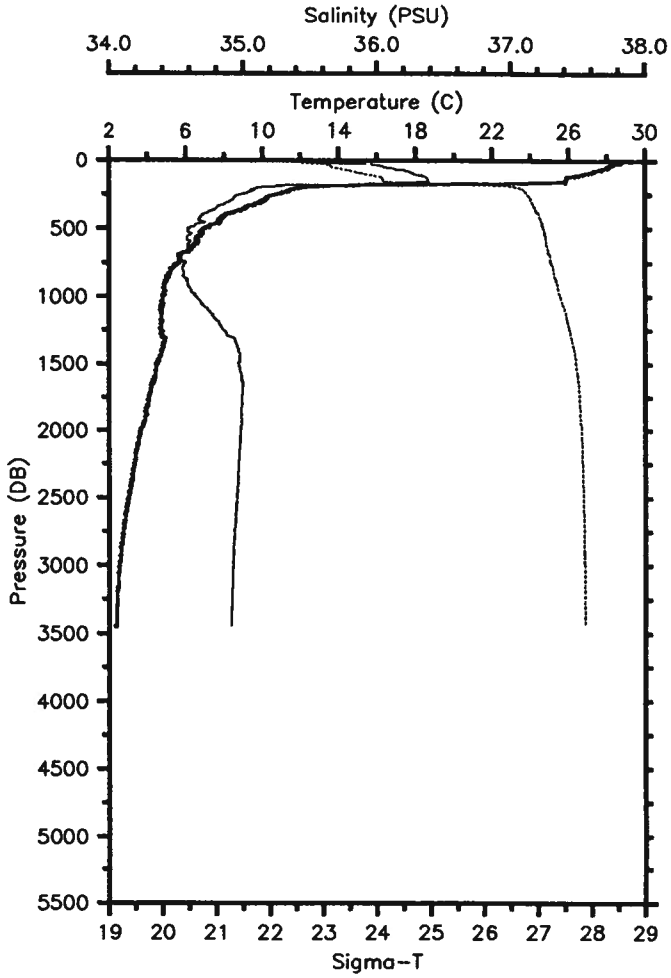


Prs	Tem	Sal	SigT
0	29.08	32.773	20.37
10	29.06	32.762	20.37
20	28.69	33.910	21.35
30	28.22	35.537	22.73
40	27.85	35.985	23.19
50	27.57	36.116	23.38
60	27.37	36.169	23.48
70	27.31	36.239	23.55
80	26.94	36.212	23.65
90	26.16	36.194	23.89
100	25.30	36.252	24.20
110	24.15	36.529	24.76
120	22.58	36.464	25.17
130	20.18	36.444	25.82
140	19.42	36.472	26.04
150	17.67	36.230	26.30
160	16.24	35.952	26.43
170	14.89	35.780	26.60
180	13.83	35.439	26.56
190	11.53	35.018	26.69
200	10.37	34.938	26.84
250	9.31	34.849	26.95
300	8.56	34.742	26.99
350	7.93	34.686	27.04
400	7.57	34.654	27.07
450	7.22	34.627	27.09
500	7.59	34.744	27.13
550	7.02	34.681	27.17
600	6.53	34.640	27.20
650	6.07	34.613	27.24
700	5.63	34.585	27.27
750	5.49	34.608	27.31
800	5.23	34.606	27.34
850	4.98	34.604	27.36
900	4.94	34.641	27.40
950	4.90	34.697	27.45
1000	4.90	34.752	27.49
1500	4.53	34.993	27.72
2000	3.72	34.988	27.81
2500	3.05	34.953	27.84
3000	2.67	34.929	27.86
3500	2.34	34.908	27.87
3938	2.25	34.898	27.87

MIT–STACS32–88 CTD 10 MT MITCHELL

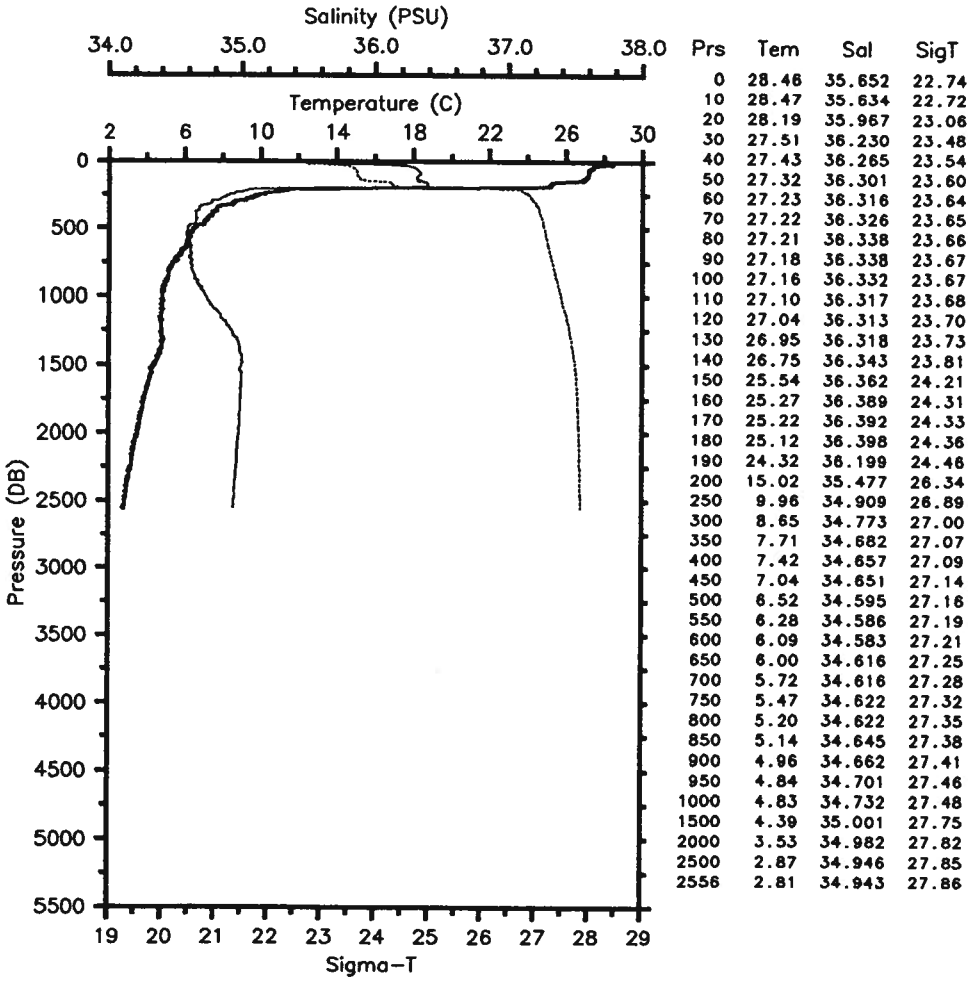
Date 09 16 88 Latitude 5.715 N

Time 1819 Z Longitude 48.767 W



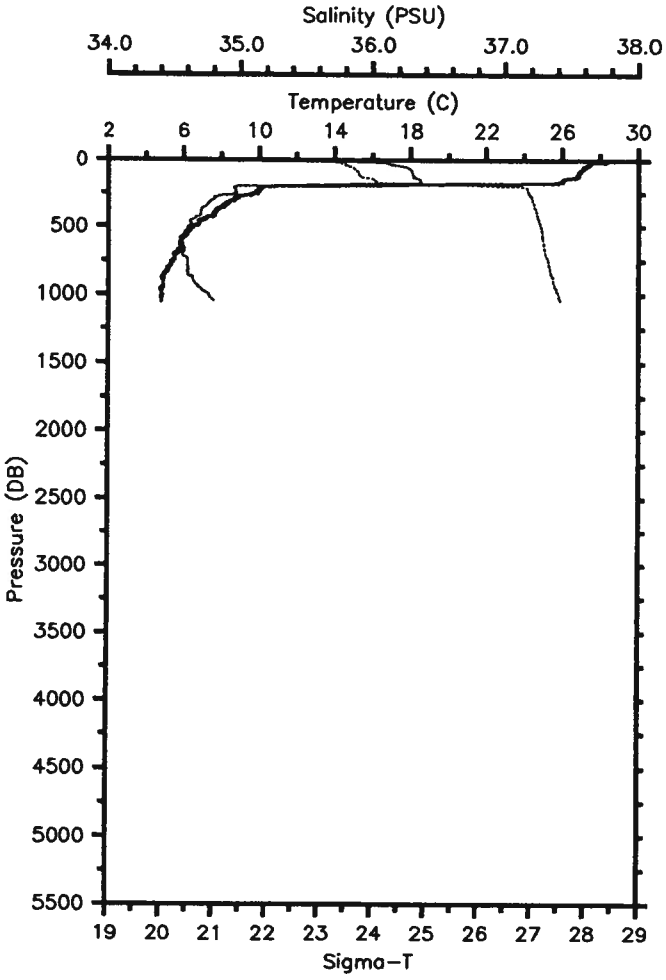
Prs	Tem	Sal	SigT
0	28.60	35.600	22.65
10	28.73	35.501	22.53
20	28.59	35.673	22.71
30	28.27	35.955	23.03
40	28.11	36.034	23.14
50	28.07	36.052	23.17
60	27.79	36.130	23.32
70	27.57	36.146	23.40
80	27.35	36.222	23.53
90	27.08	36.248	23.63
100	26.78	36.271	23.75
110	26.44	36.333	23.90
120	26.06	36.353	24.04
130	25.92	36.373	24.10
140	25.89	36.379	24.11
150	25.86	36.384	24.12
160	25.49	36.304	24.18
170	22.26	36.103	24.99
180	18.16	35.765	25.82
190	13.50	35.292	26.52
200	12.23	35.100	26.62
250	10.80	34.993	26.81
300	9.99	34.898	26.88
350	9.10	34.802	26.95
400	8.04	34.699	27.03
450	7.76	34.706	27.08
500	6.92	34.585	27.10
550	6.79	34.601	27.13
600	6.65	34.605	27.16
650	6.27	34.584	27.19
700	5.64	34.536	27.23
750	5.65	34.567	27.26
800	5.23	34.549	27.29
850	5.13	34.559	27.31
900	4.92	34.587	27.36
950	4.88	34.612	27.38
1000	4.80	34.649	27.42
1500	4.48	34.967	27.71
2000	3.67	34.984	27.81
2500	3.03	34.954	27.85
3000	2.55	34.923	27.86
3446	2.37	34.912	27.87

MIT–STACS32–88 CTD 11 MT MITCHELL
Date 09 17 88 Latitude 4.878 N
Time 0518 Z Longitude 49.312 W



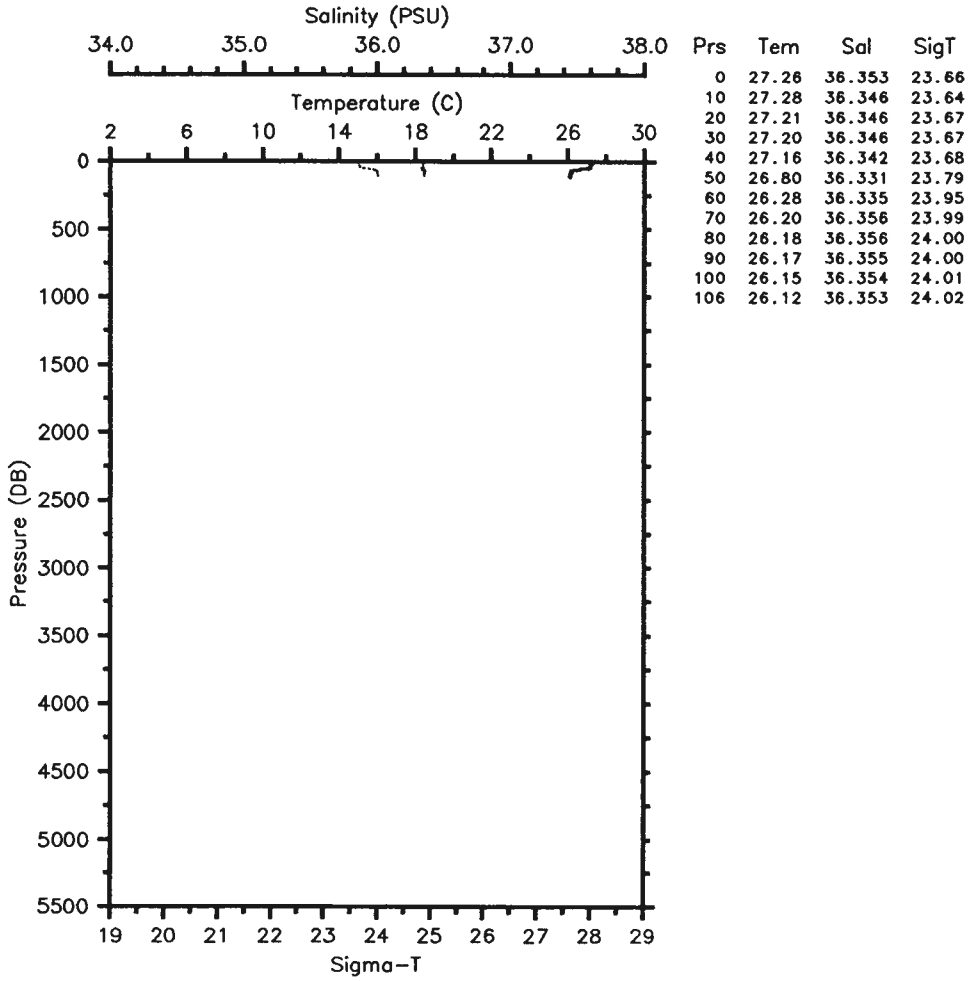
Prs	Tem	Sal	SigT
0	28.46	35.652	22.74
10	28.47	35.634	22.72
20	28.19	35.967	23.06
30	27.51	36.230	23.48
40	27.43	36.265	23.54
50	27.32	36.301	23.60
60	27.23	36.316	23.64
70	27.22	36.326	23.65
80	27.21	36.338	23.66
90	27.18	36.338	23.67
100	27.16	36.332	23.67
110	27.10	36.317	23.68
120	27.04	36.313	23.70
130	26.95	36.318	23.73
140	26.75	36.343	23.81
150	25.54	36.362	24.21
160	25.27	36.389	24.31
170	25.22	36.392	24.33
180	25.12	36.398	24.36
190	24.32	36.199	24.46
200	15.02	35.477	26.34
250	9.96	34.909	26.89
300	8.65	34.773	27.00
350	7.71	34.682	27.07
400	7.42	34.657	27.09
450	7.04	34.651	27.14
500	6.52	34.595	27.16
550	6.28	34.586	27.19
600	6.09	34.583	27.21
650	6.00	34.616	27.25
700	5.72	34.616	27.28
750	5.47	34.622	27.32
800	5.20	34.622	27.35
850	5.14	34.645	27.38
900	4.96	34.662	27.41
950	4.84	34.701	27.46
1000	4.83	34.732	27.48
1500	4.39	35.001	27.75
2000	3.53	34.982	27.82
2500	2.87	34.946	27.85
2556	2.81	34.943	27.86

MIT–STACS32–88 CTD 12 MT MITCHELL
Date 09 17 88 Latitude 4.405 N
Time 1018 Z Longitude 49.580 W



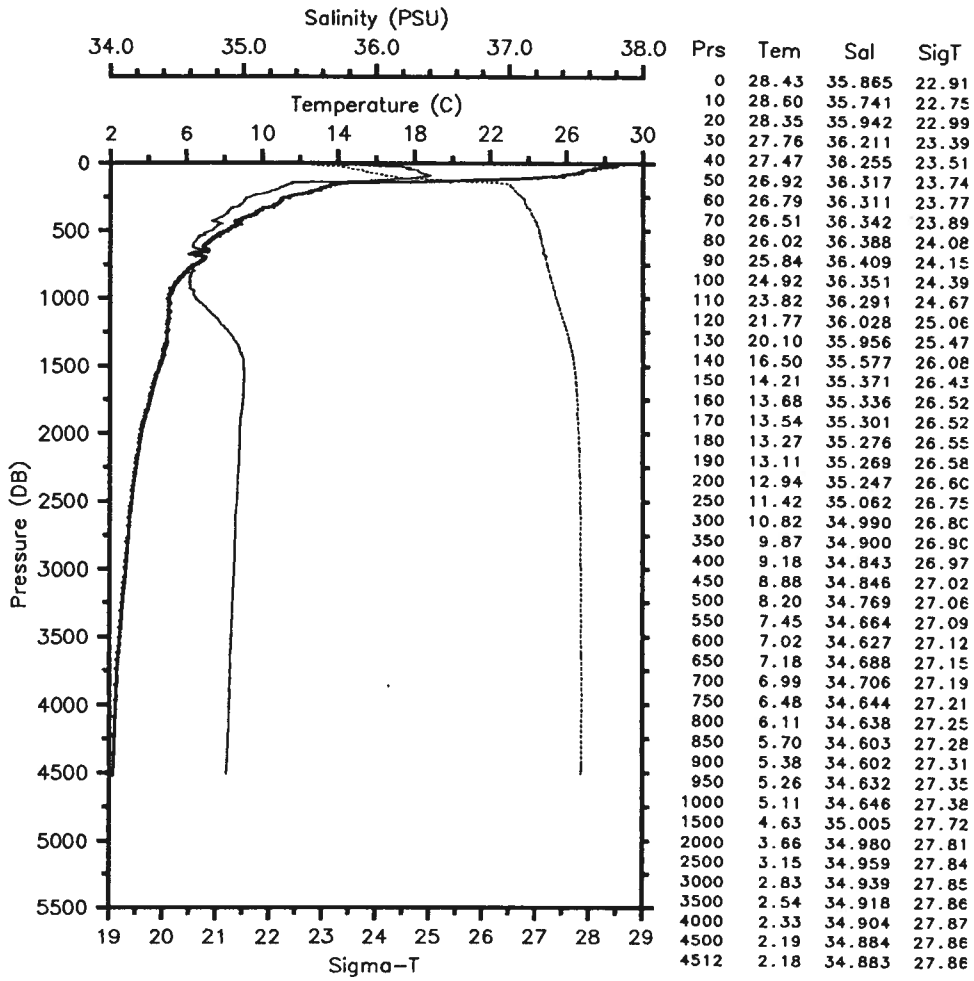
Prs	Tem	Sal	SigT
0	28.18	35.637	22.82
10	28.28	35.567	22.73
20	27.47	36.107	23.40
30	27.43	36.130	23.43
40	27.29	36.197	23.53
50	27.18	36.250	23.61
60	27.11	36.277	23.65
70	27.02	36.291	23.68
80	26.95	36.296	23.71
90	26.92	36.297	23.72
100	26.89	36.302	23.74
110	26.88	36.303	23.74
120	26.79	36.309	23.77
130	26.59	36.305	23.83
140	26.15	36.349	24.01
150	26.05	36.360	24.05
160	25.98	36.364	24.07
170	25.60	36.359	24.19
180	19.03	35.794	25.62
190	16.22	35.443	26.04
200	10.67	34.969	26.81
250	9.90	34.979	26.95
300	8.67	34.790	27.01
350	8.12	34.739	27.05
400	7.64	34.697	27.09
450	6.96	34.631	27.13
500	6.49	34.607	27.18
550	6.17	34.578	27.20
600	5.85	34.552	27.22
650	5.85	34.569	27.23
700	5.52	34.561	27.27
750	5.42	34.600	27.31
800	5.21	34.602	27.33
850	4.93	34.597	27.36
900	4.88	34.643	27.41
950	4.83	34.696	27.45
1000	4.81	34.764	27.51
1044	4.81	34.801	27.54

MIT–STACS32–88 CTD 13 MT MITCHELL
Date 09 17 88 Latitude 4.164 N
Time 1339 Z Longitude 49.695 W



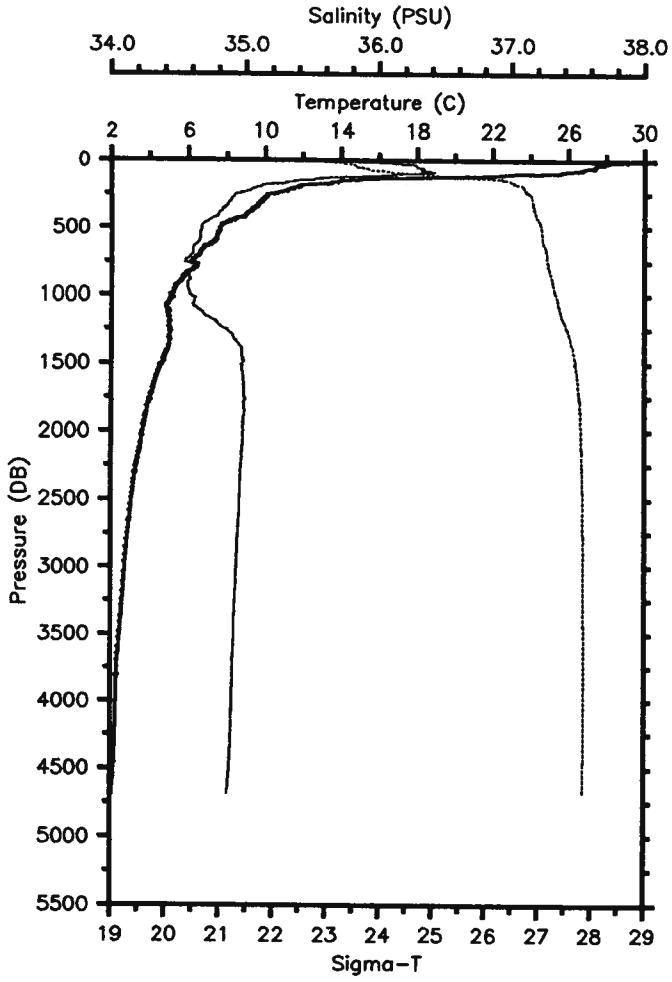
Prs	Tem	Sal	SigT
0	27.26	36.353	23.66
10	27.28	36.346	23.64
20	27.21	36.346	23.67
30	27.20	36.346	23.67
40	27.16	36.342	23.68
50	26.80	36.331	23.79
60	26.28	36.335	23.95
70	26.20	36.356	23.99
80	26.18	36.356	24.00
90	26.17	36.355	24.00
100	26.15	36.354	24.01
106	26.12	36.353	24.02

MIT–STACS32–88 CTD 14 MT MITCHELL
Date 09 18 88 Latitude 9.112 N
Time 1140 Z Longitude 51.713 W



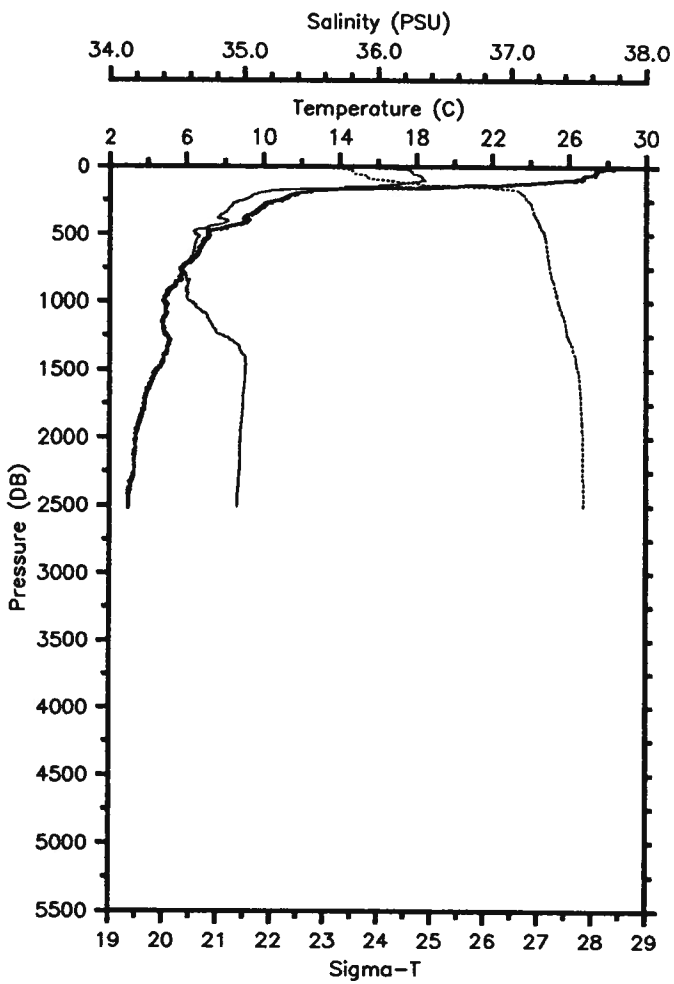
Prs	Tem	Sal	SigT
0	28.43	35.865	22.91
10	28.60	35.741	22.75
20	28.35	35.942	22.99
30	27.76	36.211	23.39
40	27.47	36.255	23.51
50	26.92	36.317	23.74
60	26.79	36.311	23.77
70	26.51	36.342	23.89
80	26.02	36.388	24.08
90	25.84	36.409	24.15
100	24.92	36.351	24.39
110	23.82	36.291	24.67
120	21.77	36.028	25.06
130	20.10	35.956	25.47
140	16.50	35.577	26.08
150	14.21	35.371	26.43
160	13.68	35.336	26.52
170	13.54	35.301	26.52
180	13.27	35.276	26.55
190	13.11	35.269	26.58
200	12.94	35.247	26.60
250	11.42	35.062	26.75
300	10.82	34.990	26.80
350	9.87	34.900	26.90
400	9.18	34.843	26.97
450	8.88	34.846	27.02
500	8.20	34.769	27.06
550	7.45	34.664	27.09
600	7.02	34.627	27.12
650	7.18	34.688	27.15
700	6.99	34.706	27.19
750	6.48	34.644	27.21
800	6.11	34.638	27.25
850	5.70	34.603	27.28
900	5.38	34.602	27.31
950	5.26	34.632	27.35
1000	5.11	34.646	27.38
1500	4.63	35.005	27.72
2000	3.66	34.980	27.81
2500	3.15	34.959	27.84
3000	2.83	34.939	27.85
3500	2.54	34.918	27.86
4000	2.33	34.904	27.87
4500	2.19	34.884	27.86
4512	2.18	34.883	27.86

MIT–STACS32–88 CTD 15 MT MITCHELL
Date 09 18 88 Latitude 8.568 N
Time 2227 Z Longitude 52.175 W



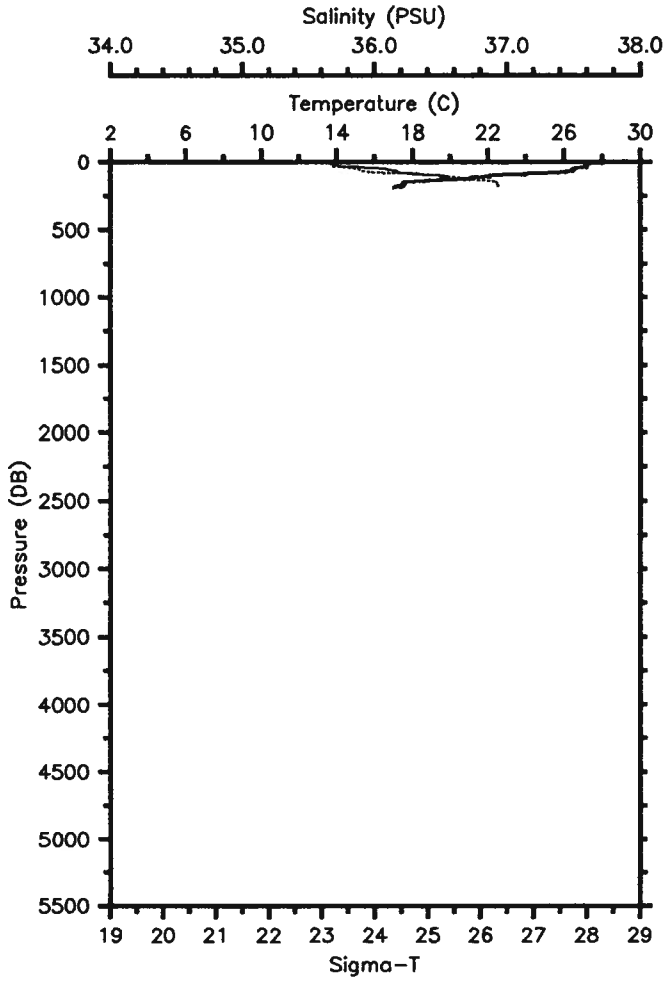
Prs	Tem	Sal	SigT
0	29.12	31.793	19.62
10	28.59	35.216	22.37
20	27.82	36.080	23.27
30	27.56	36.253	23.48
40	27.42	36.281	23.55
50	27.34	36.292	23.58
60	26.84	36.326	23.77
70	26.62	36.314	23.83
80	25.82	36.382	24.14
90	25.49	36.397	24.25
100	22.92	36.172	24.85
110	21.74	36.066	25.10
120	19.50	35.794	25.50
130	16.51	35.555	26.06
140	15.01	35.501	26.36
150	14.02	35.379	26.48
160	13.52	35.318	26.53
170	13.33	35.288	26.55
180	12.20	35.138	26.66
190	11.85	35.115	26.71
200	11.57	35.075	26.73
250	10.35	34.930	26.84
300	9.86	34.887	26.89
350	9.48	34.844	26.92
400	9.02	34.793	26.95
450	8.19	34.720	27.03
500	7.68	34.669	27.06
550	7.52	34.658	27.08
600	7.39	34.653	27.09
650	6.77	34.607	27.14
700	6.57	34.602	27.16
750	6.18	34.552	27.18
800	6.32	34.608	27.20
850	5.83	34.573	27.24
900	5.59	34.572	27.27
950	5.31	34.570	27.30
1000	5.11	34.591	27.34
1500	4.65	34.978	27.70
2000	3.62	34.978	27.81
2500	3.07	34.955	27.84
3000	2.72	34.932	27.86
3500	2.47	34.916	27.87
4000	2.27	34.900	27.87
4500	2.17	34.882	27.86
4690	2.07	34.867	27.86

MIT–STACS32–88 CTD 16 MT MITCHELL
Date 09 20 88 Latitude 8.007 N
Time 0250 Z Longitude 52.515 W



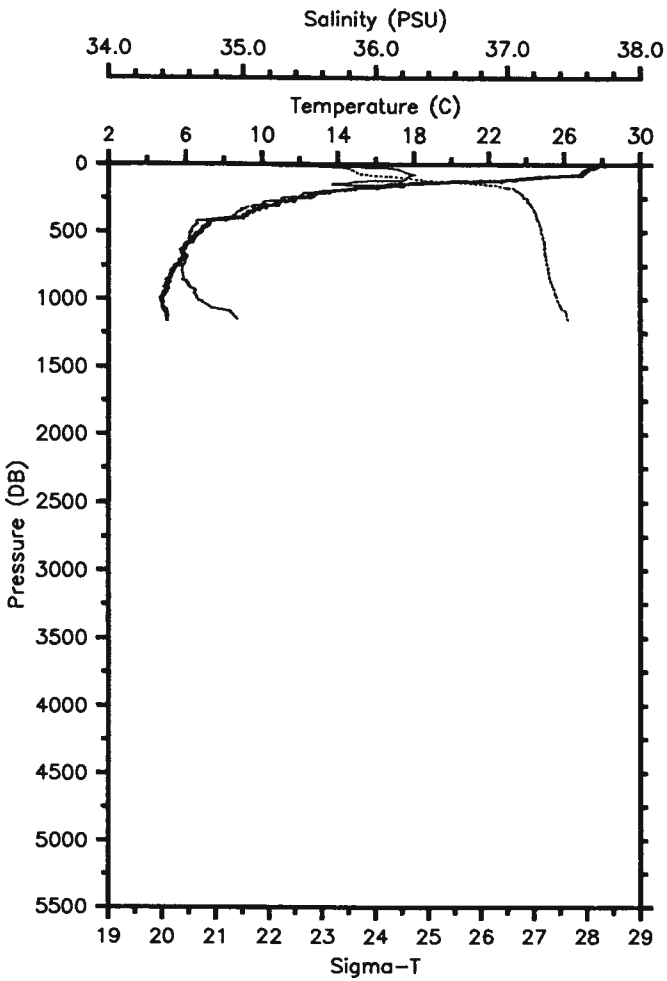
Prs	Tem	Sal	SigT
0	28.32	32.687	20.55
10	28.10	34.793	22.21
20	27.60	36.203	23.43
30	27.44	36.245	23.52
40	27.39	36.255	23.54
50	27.36	36.257	23.55
60	26.90	36.305	23.74
70	26.78	36.324	23.79
80	26.73	36.334	23.81
90	26.38	36.343	23.93
100	25.55	36.356	24.20
110	24.67	36.284	24.42
120	23.80	36.183	24.60
130	22.80	36.127	24.85
140	20.32	36.011	25.45
150	18.39	36.159	26.06
160	16.49	35.812	26.26
170	13.27	35.276	26.55
180	12.52	35.190	26.64
190	12.11	35.134	26.67
200	11.75	35.101	26.72
250	10.94	35.004	26.79
300	9.94	34.898	26.88
350	9.43	34.845	26.93
400	9.16	34.870	26.99
450	8.10	34.745	27.06
500	7.16	34.643	27.12
550	6.95	34.648	27.15
600	6.73	34.633	27.17
650	6.59	34.624	27.18
700	6.25	34.586	27.19
750	5.80	34.540	27.21
800	5.74	34.564	27.24
850	5.62	34.573	27.26
900	5.26	34.581	27.31
950	5.03	34.580	27.34
1000	4.86	34.604	27.38
1500	4.49	35.011	27.74
2000	3.39	34.976	27.83
2500	2.98	34.954	27.85
2510	2.98	34.954	27.85

MIT-STACS32-88 CTD 17 MT MITCHELL
Date 09 20 88 Latitude 7.002 N
Time 2224 Z Longitude 53.083 W



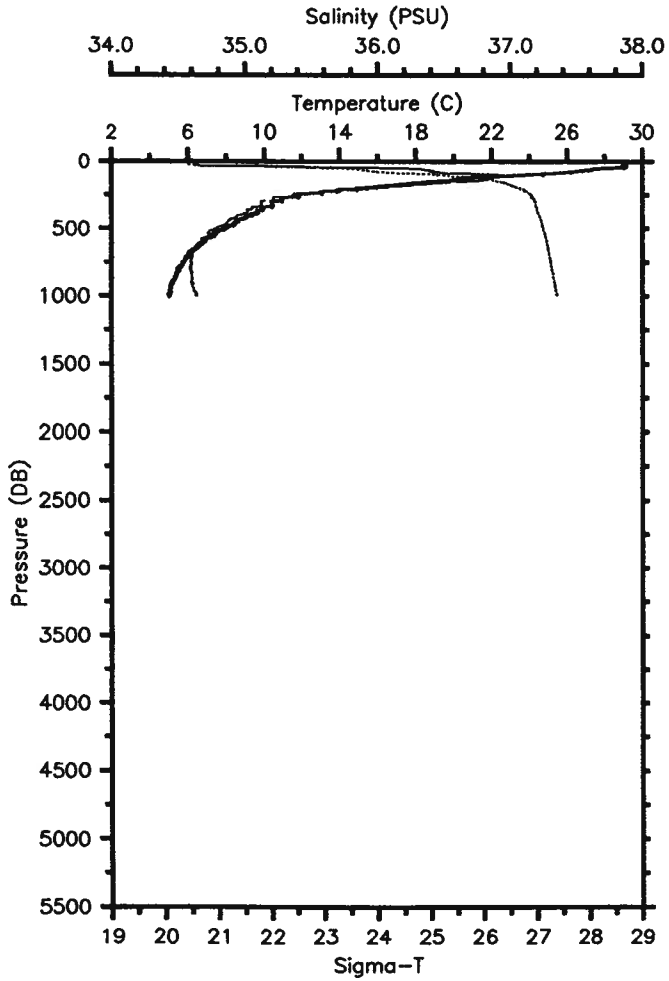
Prs	Tem	Sal	SigT
0	28.00	35.766	22.97
10	27.47	35.729	23.12
20	27.18	35.703	23.19
30	27.19	35.746	23.22
40	26.94	35.912	23.43
50	26.50	36.088	23.70
60	26.46	36.147	23.76
70	26.14	36.164	23.87
80	24.76	36.223	24.34
90	23.85	36.360	24.72
100	22.13	36.486	25.31
110	21.28	36.504	25.56
120	21.03	36.517	25.64
130	19.82	36.396	25.88
140	18.18	36.322	26.24
150	17.57	36.220	26.31
160	17.53	36.211	26.32
170	17.48	36.207	26.33
180	17.08	36.157	26.38

MIT-STACS32-88 CTD 18 MT MITCHELL
Date 09 21 88 Latitude 7.625 N
Time 0547 Z Longitude 52.775 W



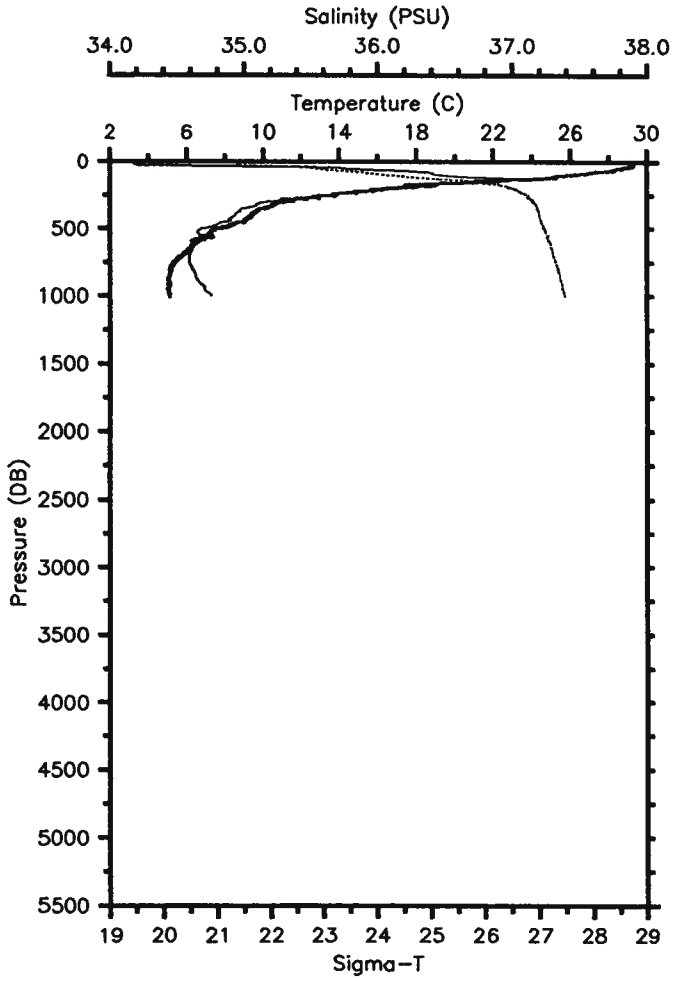
Prs	Tem	Sal	SigT
0	28.14	30.775	19.18
10	27.75	34.656	22.22
20	27.65	35.841	23.15
30	27.36	36.129	23.45
40	27.18	36.179	23.55
50	27.08	36.206	23.60
60	27.01	36.232	23.65
70	26.94	36.269	23.70
80	26.31	36.271	23.90
90	24.93	36.248	24.31
100	23.92	36.241	24.61
110	23.21	36.221	24.80
120	22.53	36.114	24.92
130	19.57	35.839	25.52
140	18.12	35.766	25.83
150	16.64	35.703	26.14
160	17.12	36.135	26.36
170	16.18	35.996	26.47
180	14.79	35.786	26.63
190	14.12	35.686	26.68
200	13.60	35.590	26.73
250	11.66	35.288	26.88
300	10.79	35.147	26.93
350	9.51	34.975	27.02
400	8.63	34.862	27.07
450	7.16	34.648	27.12
500	6.77	34.612	27.14
550	6.39	34.597	27.18
600	6.00	34.559	27.20
650	5.79	34.540	27.22
700	5.87	34.576	27.23
750	5.55	34.554	27.26
800	5.30	34.550	27.28
850	5.15	34.554	27.30
900	5.01	34.599	27.36
950	4.94	34.641	27.40
1000	4.74	34.662	27.44
1150	5.03	34.960	27.64

MIT-STACS32-88 CTD 19 MT MITCHELL
Date 09 23 88 Latitude 10.383 N
Time 0419 Z Longitude 56.385 W



Prs	Tem	Sal	SigT
0	29.06	34.612	21.76
10	29.11	34.578	21.71
20	29.12	34.576	21.71
30	29.16	34.658	21.76
40	28.99	35.308	22.30
50	27.98	36.239	23.33
60	27.23	36.368	23.68
70	26.58	36.409	23.91
80	25.87	36.506	24.21
90	24.72	36.885	24.85
100	23.52	36.791	25.14
110	21.92	36.638	25.49
120	21.17	36.743	25.78
130	20.23	36.781	26.06
140	19.80	36.779	26.17
150	18.72	36.587	26.31
160	17.89	36.446	26.41
170	17.05	36.288	26.49
180	16.49	36.191	26.55
190	15.71	36.041	26.62
200	14.92	35.894	26.68
250	11.88	35.370	26.90
300	10.41	35.121	26.97
350	9.97	35.057	27.00
400	9.32	34.960	27.04
450	8.55	34.869	27.09
500	7.92	34.787	27.12
550	7.39	34.730	27.15
600	6.81	34.670	27.19
650	6.42	34.640	27.21
700	6.06	34.609	27.24
750	5.76	34.590	27.26
800	5.54	34.594	27.29
850	5.39	34.599	27.31
900	5.18	34.600	27.34
950	5.10	34.615	27.36
1000	5.03	34.640	27.39
1002	5.03	34.642	27.39

MIT-STACS32-88 CTD 20 MT MITCHELL
Date 09 23 88 Latitude 9.455 N
Time 1100 Z Longitude 56.852 W

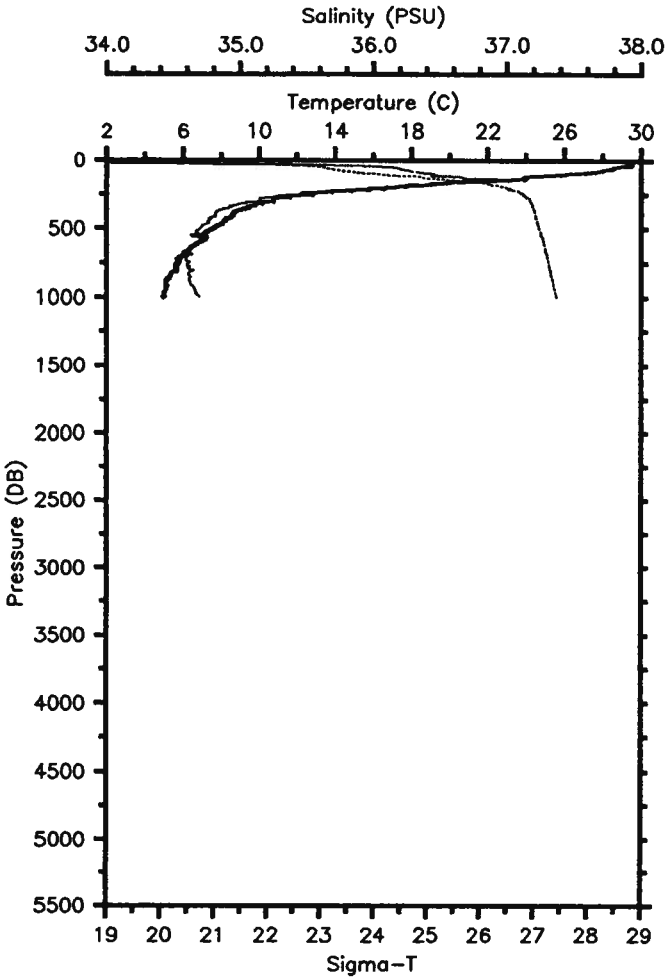


Prs	Tem	Sal	SigT
0	29.19	34.191	21.40
10	29.21	34.185	21.38
20	29.21	34.185	21.38
30	29.27	34.490	21.59
40	28.84	35.468	22.47
50	28.50	35.749	22.79
60	28.22	36.005	23.08
70	27.67	36.272	23.46
80	27.00	36.400	23.78
90	26.42	36.418	23.97
100	25.72	36.462	24.23
110	25.21	36.638	24.52
120	24.90	36.860	24.78
130	23.15	36.894	25.33
140	21.80	36.911	25.73
150	21.15	36.867	25.88
160	19.53	36.363	25.93
170	18.25	36.366	26.26
180	17.93	36.375	26.34
190	17.29	36.284	26.43
200	16.43	36.141	26.53
250	13.81	35.675	26.75
300	11.16	35.160	26.87
350	9.92	34.986	26.95
400	9.41	34.935	27.00
450	8.91	34.871	27.03
500	7.56	34.680	27.09
550	7.15	34.680	27.15
600	6.51	34.641	27.20
650	6.15	34.606	27.22
700	5.78	34.589	27.26
750	5.37	34.591	27.31
800	5.15	34.612	27.35
850	5.10	34.637	27.38
900	5.05	34.669	27.41
950	5.04	34.707	27.44
1000	5.09	34.753	27.47

MIT–STACS32–88 CTD 21 MT MITCHELL

Date 09 23 88 Latitude 9.022 N

Time 1522 Z Longitude 57.178 W

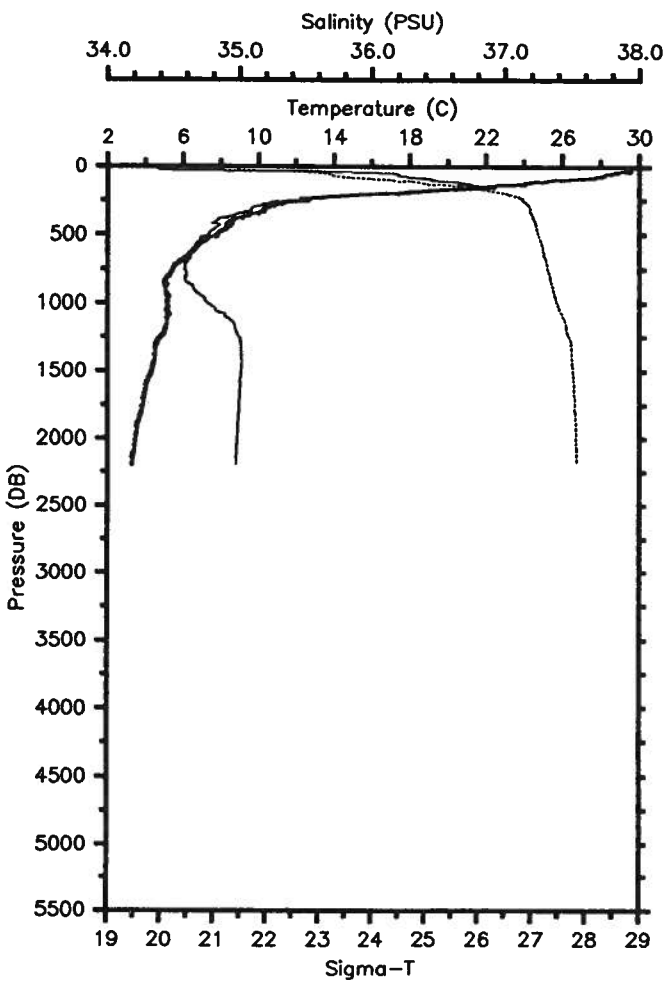


Prs	Tem	Sal	SigT
0	29.45	34.031	21.19
10	29.41	34.027	21.20
20	29.34	34.032	21.23
30	29.52	35.340	22.15
40	29.13	35.854	22.66
50	28.65	36.138	23.04
60	28.45	36.195	23.15
70	28.05	36.250	23.32
80	27.69	36.294	23.47
90	27.17	36.362	23.69
100	26.17	36.449	24.08
110	25.20	36.464	24.39
120	24.00	36.626	24.87
130	23.92	36.683	24.94
140	23.29	36.978	25.35
150	22.12	36.937	25.66
160	20.07	36.664	26.02
170	19.23	36.545	26.14
180	18.63	36.433	26.21
190	17.37	36.278	26.41
200	16.62	36.179	26.51
250	12.83	35.486	26.80
300	10.78	35.149	26.93
350	9.33	34.914	27.00
400	8.62	34.810	27.03
450	8.11	34.759	27.07
500	7.51	34.698	27.11
550	6.89	34.631	27.14
600	6.84	34.672	27.18
650	6.32	34.626	27.22
700	5.98	34.606	27.25
750	5.74	34.608	27.28
800	5.57	34.621	27.31
850	5.32	34.624	27.34
900	5.07	34.626	27.37
950	5.05	34.666	27.40
996	4.99	34.696	27.44

MIT–STACS32–88 CTD 22 MT MITCHELL

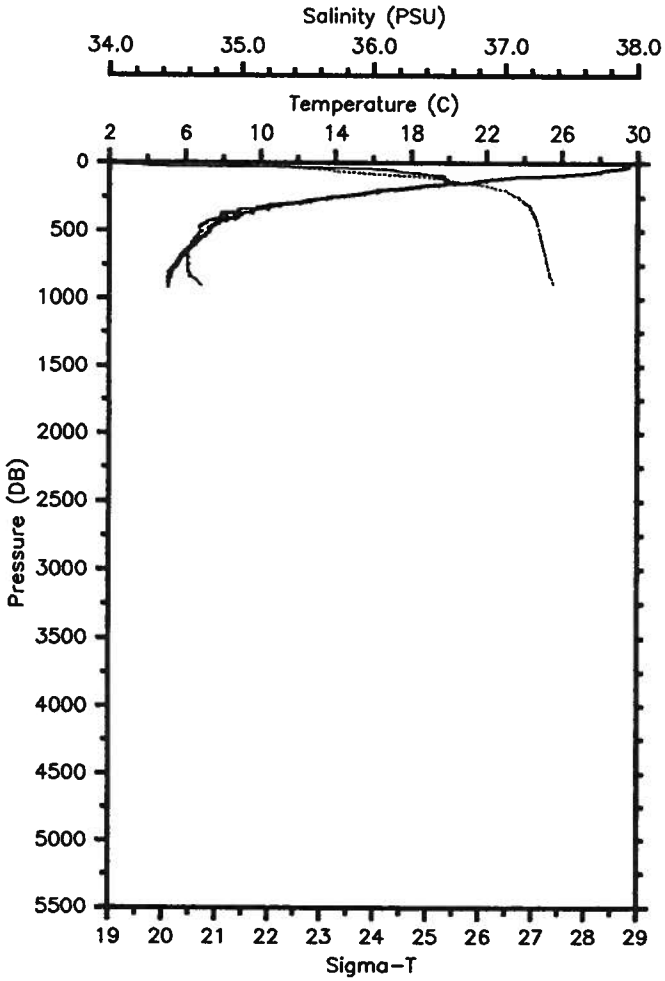
Date 09 23 88 Latitude 8.548 N

Time 1922 Z Longitude 57.467 W



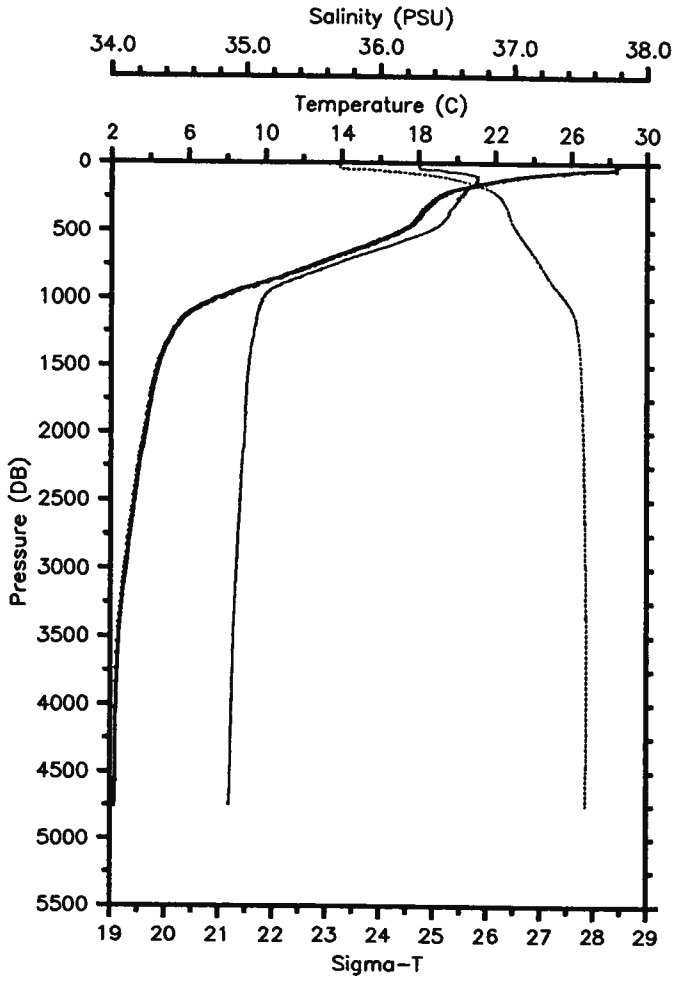
Prs	Tem	Sal	SigT
0	29.52	34.382	21.43
10	29.55	34.380	21.42
20	29.34	34.385	21.49
30	29.50	34.817	21.76
40	28.77	35.777	22.73
50	28.55	36.162	23.09
60	28.22	36.203	23.23
70	27.94	36.229	23.34
80	27.62	36.289	23.49
90	26.71	36.396	23.87
100	25.45	36.461	24.31
110	24.79	36.575	24.60
120	24.10	36.669	24.88
130	23.78	36.718	25.01
140	22.30	36.784	25.49
150	21.92	36.912	25.70
160	21.25	36.901	25.87
170	19.45	36.565	26.10
180	18.54	36.431	26.23
190	17.64	36.312	26.37
200	16.21	36.025	26.49
250	12.58	35.451	26.83
300	10.48	35.104	26.95
350	9.71	34.989	26.99
400	8.57	34.829	27.05
450	8.31	34.820	27.09
500	7.83	34.773	27.12
550	7.08	34.689	27.16
600	6.67	34.664	27.20
650	6.30	34.636	27.23
700	5.80	34.603	27.26
750	5.47	34.584	27.29
800	5.23	34.597	27.33
850	5.00	34.596	27.36
900	5.06	34.651	27.39
950	5.22	34.728	27.43
1000	5.12	34.759	27.47
1500	4.35	35.014	27.76
2000	3.48	34.982	27.83
2190	3.29	34.972	27.84

MIT-STACS32-88 CTD 23 MT MITCHELL
Date 09 23 88 Latitude 8.217 N
Time 2309 Z Longitude 57.608 W



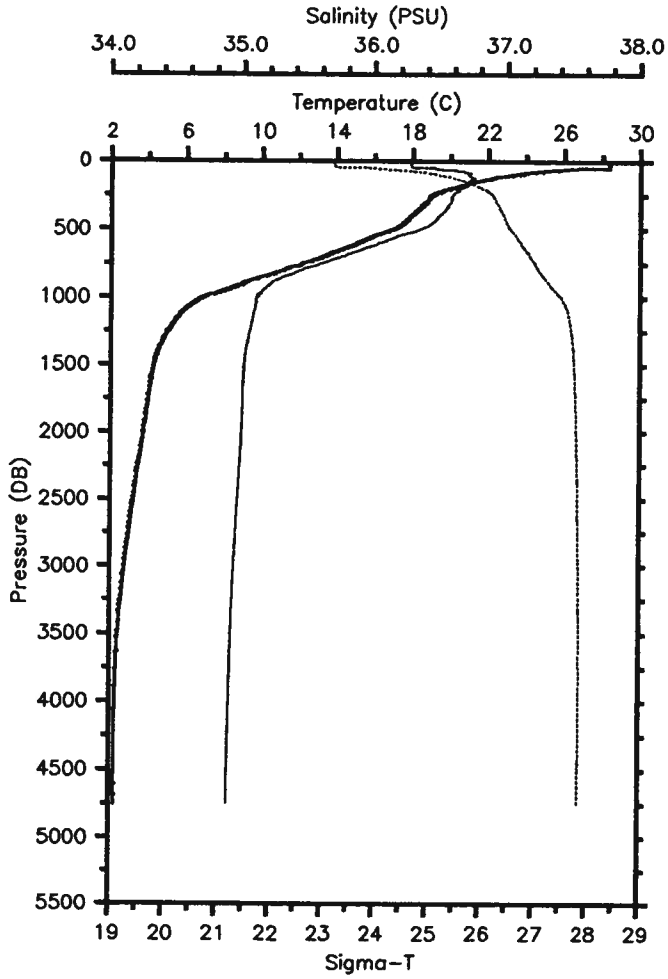
Prs	Tem	Sal	SigT
0	29.33	33.858	21.10
10	29.33	33.850	21.09
20	29.31	34.257	21.41
30	29.49	35.348	22.16
40	29.08	35.763	22.61
50	28.35	36.105	23.11
60	28.04	36.186	23.28
70	27.44	36.292	23.55
80	26.61	36.397	23.90
90	25.62	36.539	24.32
100	23.39	36.476	24.94
110	22.79	36.543	25.17
120	21.94	36.561	25.42
130	21.47	36.569	25.56
140	21.29	36.594	25.63
150	19.84	36.505	25.95
160	19.18	36.448	26.08
170	18.44	36.358	26.20
180	17.87	36.279	26.29
190	17.26	36.194	26.37
200	16.27	36.066	26.51
250	13.79	35.674	26.75
300	11.53	35.204	26.84
350	9.57	34.984	27.01
400	8.74	34.875	27.06
450	7.57	34.712	27.11
500	7.26	34.692	27.14
550	6.78	34.648	27.17
600	6.43	34.626	27.20
650	5.96	34.595	27.24
700	5.71	34.593	27.27
750	5.54	34.599	27.29
800	5.24	34.593	27.32
850	5.14	34.639	27.37
900	5.10	34.690	27.42
902	5.09	34.696	27.42

MIT-STACS32-88 CTD 24 MT MITCHELL
Date 10 06 88 Latitude 26.465 N
Time 2041 Z Longitude 76.158 W



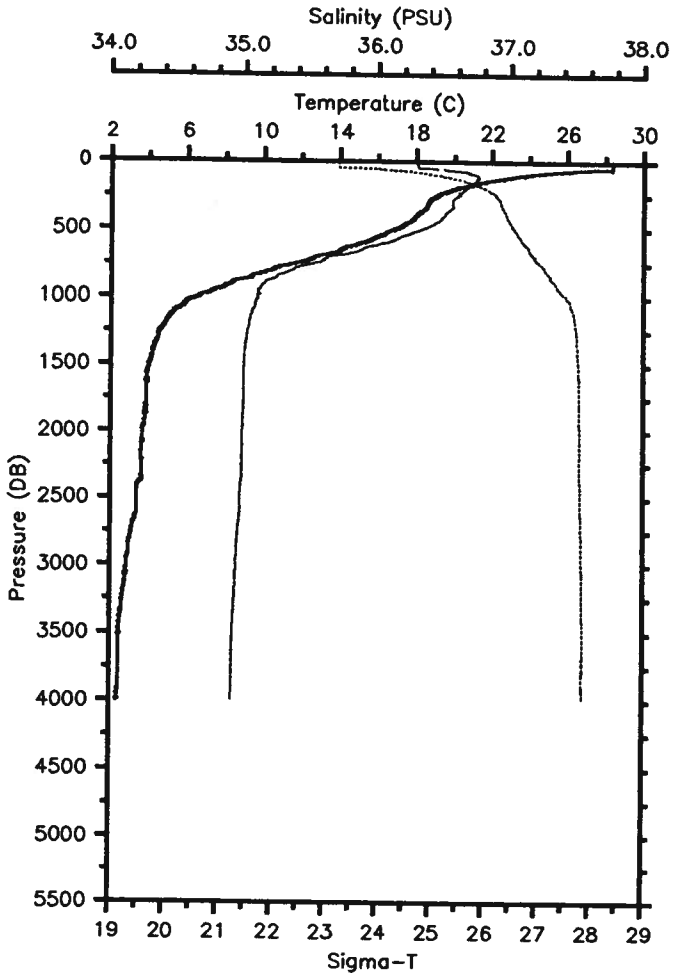
Prs	Tem	Sal	SigT
0	28.55	36.289	23.19
10	28.44	36.281	23.21
20	28.37	36.287	23.24
30	28.37	36.292	23.25
40	28.36	36.293	23.25
50	26.86	36.441	23.85
60	25.93	36.485	24.18
70	25.12	36.620	24.53
80	24.40	36.661	24.78
90	23.71	36.730	25.04
100	23.19	36.715	25.18
110	22.70	36.723	25.33
120	22.32	36.721	25.44
130	21.91	36.701	25.54
140	21.56	36.724	25.65
150	21.19	36.703	25.74
160	20.93	36.704	25.81
170	20.63	36.694	25.89
180	20.25	36.651	25.96
190	20.02	36.647	26.01
200	19.75	36.637	26.08
250	19.00	36.592	26.24
300	18.64	36.566	26.31
350	18.24	36.516	26.37
400	18.00	36.493	26.42
450	17.63	36.444	26.47
500	17.08	36.366	26.55
550	16.29	36.232	26.63
600	15.38	36.102	26.74
650	14.49	35.946	26.81
700	13.52	35.793	26.90
750	12.61	35.659	26.98
800	11.68	35.532	27.06
850	10.76	35.402	27.13
900	9.60	35.259	27.22
950	8.45	35.173	27.34
1000	7.49	35.128	27.45
1500	4.45	35.023	27.76
2000	3.78	34.994	27.80
2500	3.22	34.960	27.83
3000	2.77	34.933	27.85
3500	2.41	34.910	27.87
4000	2.28	34.898	27.87
4500	2.24	34.889	27.86
4748	2.20	34.880	27.86

MIT–STACS32–88 CTD 25 MT MITCHELL
Date 10 07 88 Latitude 26.470 N
Time 0118 Z Longitude 76.345 W



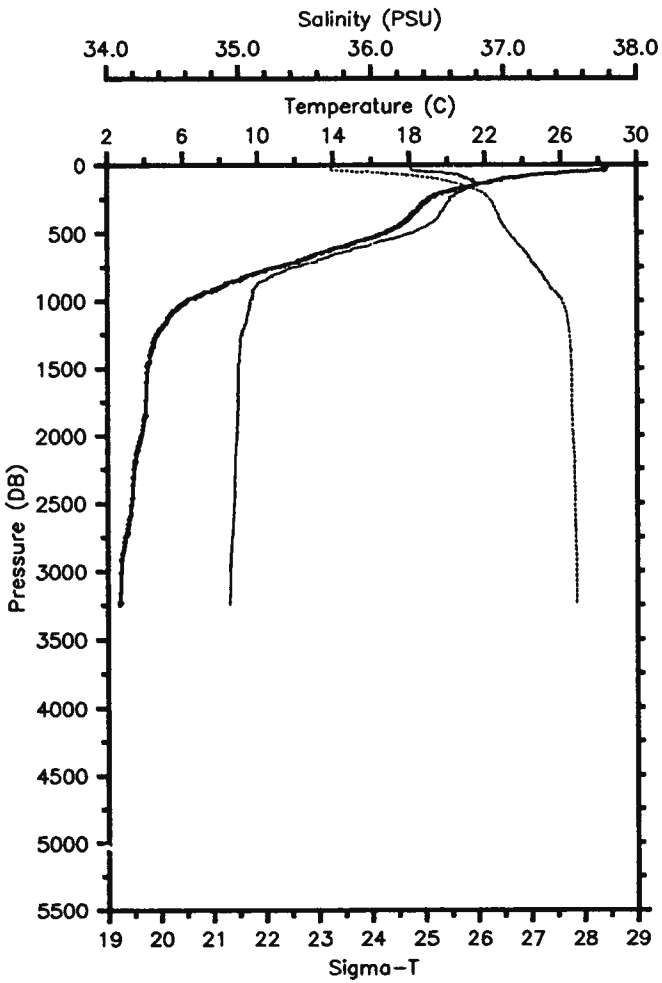
Prs	Tem	Sal	SigT
0	28.41	36.262	23.21
10	28.42	36.261	23.21
20	28.38	36.270	23.23
30	28.37	36.272	23.23
40	28.36	36.272	23.24
50	26.90	36.458	23.85
60	25.76	36.500	24.24
70	24.89	36.627	24.61
80	24.11	36.682	24.88
90	23.70	36.723	25.04
100	23.12	36.704	25.19
110	22.67	36.708	25.33
120	22.30	36.742	25.46
130	21.93	36.728	25.55
140	21.61	36.717	25.63
150	21.32	36.700	25.70
160	21.00	36.689	25.78
170	20.82	36.695	25.84
180	20.46	36.677	25.92
190	20.26	36.672	25.97
200	19.98	36.640	26.02
250	19.01	36.582	26.23
300	18.74	36.572	26.29
350	18.33	36.534	26.37
400	17.91	36.486	26.43
450	17.57	36.435	26.48
500	16.96	36.347	26.56
550	15.90	36.162	26.67
600	15.05	36.030	26.76
650	14.15	35.903	26.85
700	13.19	35.742	26.93
750	12.16	35.593	27.02
800	11.12	35.447	27.10
850	10.00	35.305	27.19
900	8.98	35.206	27.28
950	7.98	35.143	27.39
1000	6.85	35.100	27.52
1500	4.29	35.009	27.76
2000	3.74	34.988	27.80
2500	3.23	34.961	27.83
3000	2.77	34.934	27.85
3500	2.43	34.912	27.87
4000	2.29	34.899	27.87
4500	2.24	34.889	27.86
4744	2.24	34.885	27.86

MIT–STACS32–88 CTD 26 MT MITCHELL
Date 10 07 88 Latitude 26.568 N
Time 0910 Z Longitude 76.647 W



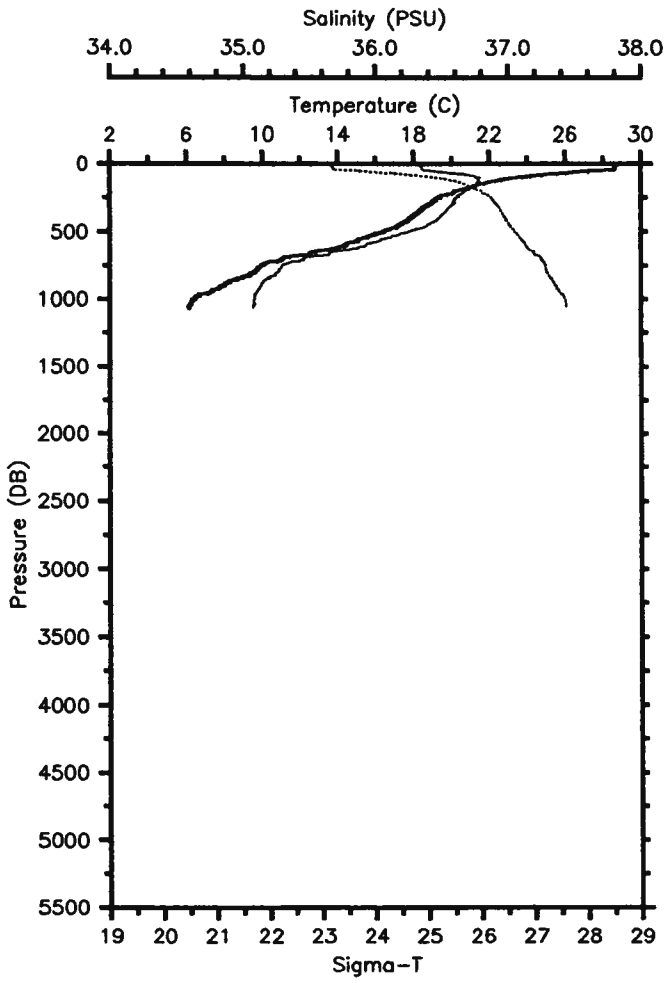
Prs	Tem	Sal	SigT
0	28.33	36.294	23.26
10	28.34	36.292	23.26
20	28.34	36.292	23.26
30	28.34	36.295	23.26
40	28.34	36.298	23.26
50	27.62	36.383	23.56
60	26.15	36.526	24.14
70	25.15	36.630	24.53
80	24.58	36.684	24.75
90	23.98	36.719	24.95
100	23.42	36.734	25.13
110	22.90	36.751	25.29
120	22.49	36.742	25.40
130	22.07	36.745	25.53
140	21.67	36.728	25.63
150	21.34	36.718	25.71
160	21.04	36.721	25.79
170	20.84	36.711	25.84
180	20.45	36.687	25.93
190	20.14	36.658	25.99
200	19.94	36.653	26.04
250	19.05	36.594	26.23
300	18.65	36.558	26.30
350	18.36	36.538	26.36
400	17.95	36.485	26.42
450	17.50	36.425	26.49
500	16.83	36.324	26.57
550	15.95	36.175	26.66
600	15.02	36.027	26.76
650	14.02	35.871	26.86
700	12.68	35.621	26.94
750	11.64	35.520	27.06
800	10.44	35.357	27.15
850	9.34	35.238	27.25
900	8.26	35.145	27.35
950	7.40	35.094	27.44
1000	6.57	35.097	27.55
1500	4.01	34.995	27.78
2000	3.66	34.984	27.81
2500	3.35	34.967	27.83
3000	2.85	34.938	27.85
3500	2.47	34.915	27.86
3996	2.37	34.905	27.86

MIT–STACS32–88 CTD 27 MT MITCHELL
Date 10 07 88 Latitude 26.528 N
Time 2225 Z Longitude 76.733 W



Prs	Tem	Sal	SigT
0	28.47	36.297	23.22
10	28.42	36.296	23.23
20	28.37	36.302	23.25
30	28.36	36.302	23.26
40	28.27	36.318	23.30
50	26.72	36.467	23.91
60	25.79	36.573	24.29
70	24.69	36.678	24.70
80	24.08	36.687	24.90
90	23.68	36.724	25.04
100	22.93	36.706	25.25
110	22.71	36.769	25.36
120	22.35	36.774	25.47
130	22.03	36.797	25.58
140	21.66	36.801	25.68
150	21.43	36.803	25.75
160	20.88	36.744	25.86
170	20.71	36.745	25.90
180	20.37	36.708	25.97
190	20.09	36.687	26.03
200	19.79	36.675	26.10
250	19.03	36.594	26.23
300	18.61	36.557	26.31
350	18.21	36.520	26.39
400	17.91	36.486	26.43
450	17.39	36.409	26.50
500	16.64	36.296	26.60
550	15.52	36.108	26.71
600	14.41	35.935	26.82
650	13.12	35.748	26.95
700	12.21	35.594	27.01
750	10.97	35.427	27.11
800	9.80	35.289	27.21
850	8.94	35.201	27.29
900	8.00	35.125	27.37
950	7.01	35.107	27.50
1000	6.20	35.089	27.60
1500	4.13	34.996	27.77
2000	3.80	34.986	27.80
2500	3.28	34.964	27.83
3000	2.71	34.932	27.86
3244	2.63	34.925	27.86

MIT–STACS32–88 CTD 28 MT MITCHELL
Date 10 08 88 Latitude 26.542 N
Time 0205 Z Longitude 76.845 W

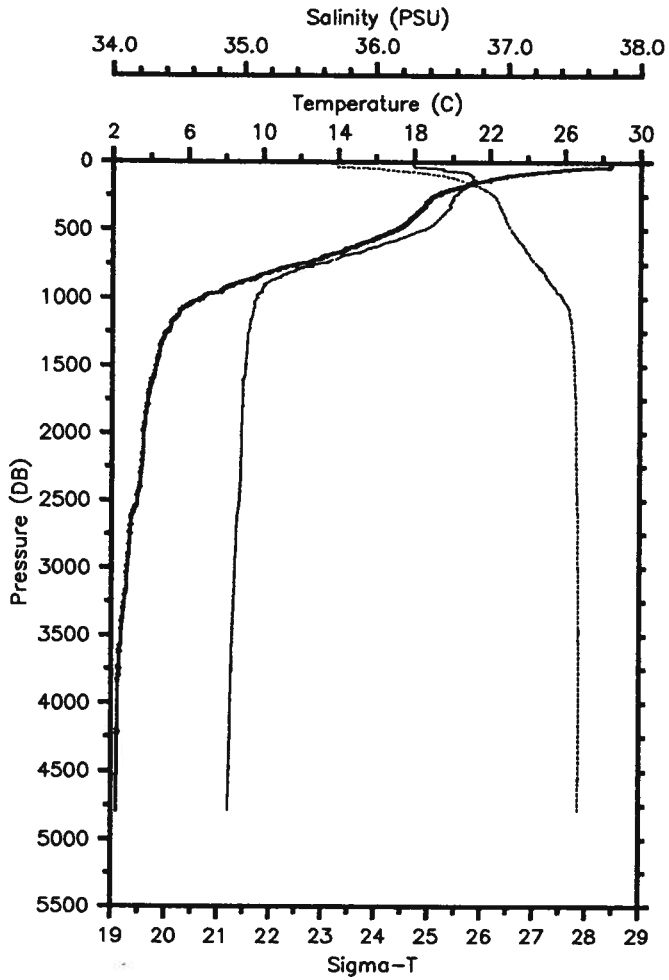


Prs	Tem	Sal	SigT
0	28.60	36.228	23.12
10	28.63	36.238	23.12
20	28.67	36.349	23.19
30	28.65	36.351	23.20
40	28.56	36.356	23.23
50	27.32	36.421	23.69
60	26.44	36.524	24.05
70	25.68	36.598	24.34
80	24.84	36.697	24.67
90	24.10	36.751	24.94
100	23.47	36.757	25.13
110	22.81	36.772	25.34
120	22.50	36.767	25.42
130	22.09	36.768	25.54
140	21.82	36.763	25.61
150	21.49	36.753	25.69
160	21.22	36.731	25.75
170	21.06	36.723	25.79
180	20.76	36.701	25.86
190	20.51	36.701	25.92
200	20.16	36.672	26.00
250	19.24	36.607	26.19
300	18.76	36.578	26.29
350	18.28	36.525	26.37
400	17.82	36.474	26.45
450	17.22	36.387	26.53
500	16.32	36.243	26.63
550	15.13	36.050	26.76
600	14.37	35.927	26.82
650	12.64	35.661	26.98
700	11.05	35.459	27.12
750	9.90	35.293	27.20
800	9.56	35.259	27.23
850	8.66	35.175	27.31
900	7.86	35.135	27.40
950	7.21	35.101	27.47
1000	6.36	35.081	27.57
1064	6.14	35.074	27.59

MIT–STACS32–88 CTD 29 MT MITCHELL

Date 10 08 88 Latitude 26.498 N

Time 0441 Z Longitude 76.525 W



Prs	Tem	Sal	SigT
0	28.38	36.283	23.24
10	28.38	36.279	23.23
20	28.38	36.279	23.23
30	28.39	36.281	23.23
40	28.07	36.329	23.38
50	26.38	36.507	24.05
60	25.71	36.516	24.27
70	24.84	36.641	24.63
80	24.09	36.688	24.89
90	23.49	36.713	25.09
100	22.93	36.733	25.27
110	22.55	36.711	25.36
120	22.16	36.726	25.49
130	21.98	36.741	25.55
140	21.57	36.714	25.64
150	21.25	36.697	25.72
160	20.95	36.692	25.80
170	20.70	36.694	25.87
180	20.38	36.675	25.94
190	20.19	36.666	25.98
200	19.93	36.638	26.03
250	19.01	36.575	26.22
300	18.65	36.558	26.30
350	18.36	36.535	26.36
400	17.98	36.492	26.42
450	17.59	36.440	26.48
500	17.01	36.358	26.56
550	16.16	36.212	26.64
600	15.15	36.053	26.75
650	14.30	35.915	26.83
700	13.17	35.728	26.92
750	11.89	35.551	27.04
800	10.60	35.382	27.15
850	9.69	35.271	27.22
900	8.42	35.150	27.33
950	7.76	35.134	27.41
1000	6.74	35.105	27.54
1500	4.28	35.011	27.77
2000	3.63	34.981	27.81
2500	3.31	34.966	27.83
3000	2.79	34.935	27.85
3500	2.49	34.916	27.86
4000	2.32	34.903	27.87
4500	2.28	34.894	27.86
4784	2.27	34.888	27.86

APPENDIX C: XBT DATA

Casts are presented by cruise and increasing cast number. Isotherm depths in meters are listed at temperatures ranging from 30 to 6 degrees Centrigrade.

ISOTHERM DEPTHS (M)

R/V WHITING WHI-STACS30-88

XBT NO.	1	2	3	4	5	6	7
YEAR	88	88	88	88	88	88	88
MONTH	2	2	2	2	2	2	2
DAY (GMT)	19	20	25	25	26	26	27
TIME (GMT)	1624	1450	0814	2044	0846	2025	0855
LAT (N)	29.43	26.23	26.17	24.50	23.23	21.93	20.68
LON (W)	79.99	79.95	77.09	74.50	72.49	70.47	68.50
SURF T (C)	24.5	23.4	23.3	25.5	24.4	25.9	25.5
28							
27							
26							
25				24		123	128
24	62			62	73	146	153
23	71	27	39	107	123	167	188
22	91	59	119	134	183	181	221
21	112	78	193	167	207	207	238
20	121	87	207	195	235	239	261
19	128	94	234	243	278	284	289
18	137	102	328	328	364	362	325
17	147	108	404	400	447	438	379
16	168	113	478	461	507	479	408
15	189	121	518	510	559	524	461
14	207	126	556	561	609	578	516
13	233	132	619	597	654	628	572
12	250	136	655	648	698	679	625
11	269	142	704	688	740	728	658
10	298	160	736	735	782	768	721
9	348		804	797	836	835	773
8			861	877	894	899	841
7			939	959	960		923
6			1020	1053	1051		1074

ISOTHERM DEPTHS (M)

R/V WHITING WHI-STACS30-88

XBT NO.	8	9	10	11	12	13	14
YEAR	88	88	88	88	88	88	88
MONTH	2	2	2	2	3	3	3
DAY (GMT)	27	28	28	29	4	5	5
TIME (GMT)	2036	0843	2044	0839	2049	0811	2203
LAT (N)	19.34	17.83	16.39	15.07	13.49	13.01	13.00
LON (W)	66.50	65.10	63.42	61.81	61.09	60.31	58.01
SURF T (C)	25.6	26.0	26.7	26.8	26.5	26.5	26.6
28							
27							
26		71	88	90	53	75	99
25	99	105	100	104	71	81	116
24	137	128	116	127	82	88	133
23	151	153	132	139	118	91	153
22	187	192	159	168	136	95	162
21	211	210	174	186	141	107	169
20	230	231	195	206	153	125	176
19	251	254	214	212	159	146	192
18	303	277	227	229	179	184	209
17	366	314	262	254	196	197	224
16	408	368	287	293	234	212	236
15	444	401	309	316	254	237	241
14	474	437	350	333	290	253	283
13	515	475	383	357	306	262	300
12	556	506	427	394	325	285	314
11	617	542	452	410	369	396	372
10	667	587	503	469	405	412	404
9		664	558	494			
8		725	615	550			
7		827	740	604			
6		972	870				

ISOTHERM DEPTHS (M)

R/V WHITING WHI-STACS30-88

XBT NO.	15	16	17	18	19	20	21
YEAR	88	88	88	88	88	88	88
MONTH	3	3	3	3	3	3	3
DAY (GMT)	6	7	7	7	8	8	8
TIME (GMT)	0820	0819	1750	1936	0309	0858	1035
LAT (N)	12.99	13.00	13.00	13.00	13.01	12.74	12.48
LON (W)	57.99	55.58	54.65	54.32	53.31	52.78	52.59
SURF T (C)	26.1	26.0	26.1	26.2	25.8	26.2	26.2
28							
27							
26	108	85	84	83		87	93
25	117	96	91	95	70	93	100
24	127	107	107	107	74	96	111
23	135	119	117	115	77	104	118
22	141	132	133	124	82	111	126
21	158	144	142	130	91	116	131
20	164	156	154	137	111	124	142
19	178	172	169	158	126	144	154
18	181	192	186	172	134	161	176
17	190	208	202	196	147	180	187
16	215	223	216	211	167	206	203
15	225	240	237	228	183	225	238
14	247	282	256	249	206	247	258
13	259	304	277	275	235	264	283
12	269	336	295	291	269	298	304
11	287	364	333	328	301	342	346
10	323		370	360	348	373	379
9	348		416	412	399		
8							
7							
6							

ISOTHERM DEPTHS (M)

R/V WHITING WHI-STACS30-88

XBT NO.	22	23	24	25	26	27	28
YEAR	88	88	88	88	88	88	88
MONTH	3	3	3	3	3	3	3
DAY (GMT)	8	8	9	9	9	9	9
TIME (GMT)	1640	1827	0011	0206	0756	0935	1524
LAT (N)	11.93	11.68	11.13	10.89	10.33	10.05	9.52
LON (W)	52.18	51.98	51.58	51.44	51.00	50.78	50.38
SURF T (C)	26.2	26.5	26.2	26.2	26.5	26.5	26.4
28							
27							
26	88	83	76	77	81	87	81
25	94	88	80	80	84	89	84
24	99	97	84	84	89	91	89
23	109	106	89	89	104	98	95
22	114	113	97	97	110	107	101
21	121	125	113	106	117	114	110
20	131	133	117	127	126	123	120
19	139	138	127	139	134	134	132
18	147	148	134	152	144	146	144
17	173	165	141	164	156	153	161
16	194	179	148	176	166	168	174
15	213	197	155	186	177	178	182
14	242	208	165	195	190	183	191
13	270	251	183	220	221	200	200
12	286	279	211	234	245	217	218
11	310	311	235	278	287	240	279
10	373	360	288	300	320	288	334
9	402	388	379	344	339	339	383
8				417		390	
7							
6							

ISOTHERM DEPTHS (M)

R/V WHITING WHI-STACS30-88

XBT NO.	29	30	31	32	33	34	35
YEAR	88	88	88	88	88	88	88
MONTH	3	3	3	3	3	3	3
DAY (GMT)	9	9	10	10	10	10	10
TIME (GMT)	1715	2234	0026	0651	1230	2003	2329
LAT (N)	9.23	8.70	8.43	7.87	7.28	7.32	7.64
LON (W)	50.16	49.77	49.57	49.15	48.72	49.10	49.70
SURF T (C)	26.3	26.4	26.3	26.3	26.6	26.8	26.4
28							
27							
26	78	77	76	72	56	48	68
25	85	80	80	75	59	52	79
24	92	84	88	78	64	58	83
23	100	89	98	86	70	61	87
22	108	93	101	91	74	78	92
21	119	107	103	103	78	84	97
20	127	112	116	106	83	91	102
19	135	118	132	113	88	100	114
18	144	127	141	119	93	104	119
17	154	135	151	131	98	110	124
16	163	144	160	138	106	114	134
15	176	154	169	144	116	123	148
14	190	164	178	151	122	132	158
13	208	170	204	167	128	142	185
12	218	187	228	191	138	154	195
11	268	219	251	211	151	167	216
10	311	279	277	256	190	203	254
9	389		356	302	277	260	298
8				391	359	365	335
7							
6							

ISOTHERM DEPTHS (M)

R/V WHITING WHI-STACS30-88

XBT NO.	36	37	38	39	40	41	42
YEAR	88	88	88	88	88	88	88
MONTH	3	3	3	3	3	3	3
DAY (GMT)	11	11	11	12	12	12	12
TIME (GMT)	0845	1227	2053	0051	0936	1427	1815
LAT (N)	8.27	8.59	9.23	9.57	10.22	10.64	10.93
LON (W)	50.91	51.50	52.68	53.28	54.47	55.26	55.74
SURF T (C)	27.2	27.3	27.5	27.4	26.6	26.7	27.2
28							
27	104	56	77	88			18
26	107	71	89	92	84	82	88
25	110	83	100	97	89	88	94
24	113	93	109	100	94	94	104
23	117	107	124	111	99	98	110
22	122	115	141	118	109	112	115
21	140	125	152	137	117	125	126
20	143	135	160	146	126	143	158
19	148	144	166	158	137	152	167
18	161	147	169	171	148	161	173
17	170	158	171	188	161	167	193
16	176	166	175	197	170	178	205
15	185	176	179	207	183	203	218
14	195	182	206	221	199	215	232
13	207	207	230	243	216	228	254
12	215	222	240	269	240	252	279
11	241	238	260	290	257	296	325
10	283	289	309		283	360	378
9	351	331	363		372		
8	404						
7							
6							

ISOTHERM DEPTHS (M)

R/V WHITING WHI-STACS30-88

XBT NO.	43	44	45	46	47	48	49
YEAR	88	88	88	88	88	88	88
MONTH	3	3	3	3	3	3	3
DAY (GMT)	16	17	17	18	19	19	20
TIME (GMT)	1654	0439	1631	1629	0430	1628	0436
LAT (N)	13.37	15.05	16.78	19.87	21.38	22.81	24.21
LON (W)	60.10	61.76	63.40	66.80	68.50	70.29	72.35
SURF T (C)	27.0	26.6	27.3	25.5	25.4	25.5	24.0
28							
27			5				
26	88	69	81				
25	92	97	101	112	55	94	
24	100	102	122	126	98	144	15
23	104	111	151	150	124	151	64
22	128	130	172	175	149	175	92
21	142	153	187	204	166	199	123
20	148	167	204	233	197	222	149
19	158	187	226	260	220	260	193
18	167	212	249	313	303	341	293
17	180	233	280	367	381	415	370
16	185	267	299	409	432		424
15	191	282	318				
14	199	312	341				
13	237	329	368				
12	271	365	403				
11	385	408					
10	429	433					
9							
8							
7							
6							

ISOTHERM DEPTHS (M)

R/V WHITING WHI-STACS30-88

XBT NO.	50	51	52	53	54	55	56
YEAR	88	88	88	88	88	88	88
MONTH	3	3	3	3	3	3	3
DAY (GMT)	20	21	21	21	22	22	23
TIME (GMT)	1629	0429	1541	2102	1431	1931	0054
LAT (N)	25.53	26.45	26.49	26.47	26.51	26.57	26.53
LON (W)	74.15	75.53	75.93	76.15	76.49	76.63	76.74
SURF T (C)	23.2	22.9	23.1	23.5	23.0	23.5	23.2
28							
27							
26							
25							
24							
23	80		64	14	16	68	88
22	112	98	108	46	105	88	151
21	141	146	146	90	154	158	184
20	163	178	185	131	183	179	210
19	225		233	257	220	218	242
18	321		343	394	367	337	334
17	390		422	477	471	432	426
16			519	507	517	495	487
15			560	560	568	538	525
14			606	606	612	584	572
13			650	642	653	619	621
12			701	699	699	668	655
11			748	742	750	719	709
10			796	794	787	772	773
9			855	844	825	817	834
8			917	900	885	872	871
7			991	975	950	921	922
6			1090	1060	1029	1012	1010

ISOTHERM DEPTHS (m)

R/V WHITING WHI-STACS30-88

XBT NO.	57	58
YEAR	88	88
MONTH	3	3
DAY (GMT)	23	24
TIME (GMT)	0331	0428
LAT (N)	26.55	27.32
LON (W)	76.84	77.60
SURF T (C)	23.1	23.2
28		
27		
26		
25		
24		
23	94	14
22	134	25
21	163	144
20	189	184
19	226	225
18	316	351
17	395	446
16		
15		
14		
13		
12		
11		
10		
9		
8		
7		
6		

ISOTHERM DEPTHS (M)

R/V WHITING WHI-STACS31-88

XBT NO.	1	2	3	4	5	6	7
YEAR	88	88	88	88	88	88	88
MONTH	7	7	7	7	7	7	7
DAY (GMT)	1	5	6	6	6	8	8
TIME (GMT)	0545	2241	0351	0928	1423	0853	1840
LAT (N)	15.05	11.75	10.87	9.54	9.00	10.98	10.45
LON (W)	62.58	58.08	58.70	55.79	57.93	55.48	54.63
SURF T (C)	28.2	27.8	27.9	25.0	27.9	27.9	27.8
29							
28	44						
27	63	29	44		34	43	41
26	82	62	74		67	75	68
25	102	109	87	48	76	86	83
24	115	121	90	83	86	91	86
23	131	125	109	86	92	98	91
22	146	132	119	90	100	107	97
21	159	143	123	107	111	116	101
20	170	152	130	113	121	120	110
19	181	161	153	125	126	126	121
18	201	193	163	134	130	132	127
17	233	217	170	142	158	138	138
16	264	227	189	154	172	147	154
15	291	231	206	167	179	172	169
14	325	244	217	181	189	195	190
13	359	263	225	200	207	202	196
12	398	292	246	226	228	236	220
11	430	329	295	272	252	279	270
10		359	349	335	292	325	307
9		410	411		354	399	351
8					424		427
7							

ISOTHERM DEPTHS (M)

R/V WHITING WHI-STACS31-88

XBT NO.	8	9	10	11	12	13	14
YEAR	88	88	88	88	88	88	88
MONTH	7	7	7	7	7	7	7
DAY (GMT)	9	9	9	9	10	10	10
TIME (GMT)	0139	0821	1511	2143	0403	1016	1615
LAT (N)	9.95	9.48	8.95	8.38	7.83	7.32	6.92
LON (W)	53.78	52.88	52.05	51.17	50.30	49.47	48.73
SURF T (C)	27.5	27.5	27.8	29.0	28.8	28.6	27.9
29				2			
28				37	30	18	
27	21	35	34	79	71	41	69
26	74	64	81	88	85	72	75
25	82	79	87	93	91	88	85
24	87	91	93	103	98	96	91
23	94	94	99	113	101	99	95
22	104	101	107	115	104	104	102
21	114	108	111	118	110	111	112
20	121	115	121	123	114	116	117
19	127	130	147	127	120	120	121
18	142	141	154	131	130	124	124
17	163	153	160	137	144	131	126
16	177	163	165	141	156	134	131
15	182	177	175	150	160	139	137
14	192	186	188	159	170	146	141
13	204	202	209	180	183	160	153
12	216	232	231	193	203	182	170
11	242	258	257	212	227	202	182
10	261	280	321	249	245	264	192
9	308	308	372	287	319	313	283
8	412	402		370	407	414	377
7				442			

ISOTHERM DEPTHS (M)

R/V WHITING WHI-STACS31-88

XBT NO.	15	16	17	18	19	20	21
YEAR	88	88	88	88	88	88	88
MONTH	7	7	7	7	7	7	7
DAY (GMT)	12	12	12	12	12	12	12
TIME (GMT)	0203	0419	0648	0915	1142	1404	1646
LAT (N)	4.78	5.20	5.67	6.12	6.55	6.95	7.42
LON (W)	49.77	49.97	50.20	50.42	50.65	50.88	51.15
SURF T (C)	28.9	29.2	29.4	29.4	29.2	28.9	29.2
29		3	13	13	8		5
28	15	34	55	54	60	51	71
27	60	61	84	89	100	84	93
26	81	76	94	103	112	99	104
25	90	85	102	114	115	105	114
24	104	100	108	118	116	106	119
23	110	108	113	122	119	108	123
22	116	113	119	125	123	109	126
21	125	119	124	128	127	111	128
20	141	130	128	134	130	114	130
19	146	138	134	138	135	117	132
18	155	143	137	142	143	119	134
17	165	150	141	149	150	121	135
16	171	156	152	162	155	124	136
15	176	162	164	175	159	129	140
14	179	166	170	186	164	132	146
13	182	175	179	197	168	147	152
12	189	187	190	212	186	166	173
11	205	210	210	248	251	189	195
10	239	223	228	273	321	276	229
9	264	243	259	334	386	368	307
8	306	266	298	412			444
7	369	352	380				

ISOTHERM DEPTHS (M)

R/V WHITING WHI-STACS31-88

XBT NO.	22	23	24	25	26	27	28
YEAR	88	88	88	88	88	88	88
MONTH	7	7	7	7	7	7	7
DAY (GMT)	12	12	13	13	15	15	15
TIME (GMT)	1915	2149	0553	1456	0022	0354	0752
LAT (N)	7.85	8.28	8.48	7.80	7.97	8.50	9.03
LON (W)	51.35	51.55	52.14	52.60	54.17	54.68	55.27
SURF T (C)	29.6	29.8	27.0	28.7	26.0	26.0	28.2
29	6	8					
28	52	43		17			6
27	84	75	10	59			52
26	93	87	77	72	24	22	74
25	104	93	91	78	83	77	84
24	110	96	97	84	93	84	93
23	112	103	106	86	96	92	101
22	114	111	110	108	98	105	113
21	117	125	118	121	100	112	125
20	123	138	126	127	103	122	136
19	132	146	134	134	107	128	141
18	136	152	141	141	116	133	148
17	139	161	151	149	125	143	156
16	141	169	160	160	133	152	165
15	145	178	166	167	144	164	174
14	154	185	172	177	154	174	193
13	164	200	185	183	166	196	211
12	189	208	197	190	184	208	240
11	232	220	217	219	224	240	274
10	281	233	255	239	239	271	292
9	317	255	301	258	286	316	314
8	399	302	392	400	350	383	391
7		459	489	507	451	484	504

ISOTHERM DEPTHS (m)

R/V WHITING WHI-STACS31-88

XBT NO.	29	30	31	32	33
YEAR	88	88	88	88	88
MONTH	7	7	7	7	7
DAY (GMT)	15	15	15	16	16
TIME (GMT)	1119	1509	1850	0249	0942
LAT (N)	9.53	10.07	10.60	11.62	12.60
LON (W)	55.79	56.35	56.93	58.05	59.15
SURF T (C)	26.0	26.0	28.3	28.3	26.0
29					
28			11	9	
27			37	43	
26	34	28	61	78	32
25	86	90	80	91	97
24	97	104	87	100	106
23	111	114	93	106	112
22	121	134	101	114	122
21	131	138	108	124	138
20	146	153	113	134	150
19	158	168	119	140	159
18	169	178	128	143	168
17	175	188	142	157	188
16	182	194	156	176	201
15	191	199	162	203	220
14	196	209	171	220	239
13	204	224	180	232	254
12	213	239	209	241	273
11	253	268	229	256	305
10	328	326	265	387	370
9	382	412	331	425	420
8	431	459	475	505	505
7	488	549	608	621	608

ISOTHERM DEPTHS (M)

R/V MT MITCHELL MIT-STACS32-88

XBT NO.	1	2	3	4	5	6	7
YEAR	88	88	88	88	88	88	88
MONTH	9	9	9	9	9	9	9
DAY (GMT)	12	12	12	12	12	12	12
TIME (GMT)	1621	1659	1755	1855	2002	2101	2200
LAT (N)	12.92	12.88	12.86	12.81	12.78	12.75	12.72
LON (W)	59.25	59.10	58.92	58.73	58.53	58.35	58.15
SURF T (C)	28.5	28.5	28.7	28.5	28.3	28.0	28.5
28	39	38	43	40	43	45	40
27	68	63	77	70	60	61	65
26	83	83	94	82	82	79	79
25	97	98	113	103	96	89	95
24	118	106	123	111	111	100	99
23	128	123	134	126	121	107	106
22	142	137	148	143	137	123	135
21	155	150	162	164	157	135	145
20	174	172	180	183	169	152	158
19	202	192	205	198	186	175	175
18	223	209	217	207	197	189	188
17	239	237	235	231	214	198	206
16	259	257	265	259	232	218	220
15	271	281	289	275	257	229	235
14	283	298	323	298	277	249	251
13	310	331	346	316	295	266	273
12	345	356	375	352	316	297	298
11	374	389	413	377	350	327	324
10	397	412	437	413	387	368	378
9				439	438	420	
8							
7							
6							

ISOTHERM DEPTHS (M)

R/V MT MITCHELL MIT-STACS32-88

XBT NO.	8	9	10	11	12	13	14
YEAR	88	88	88	88	88	88	88
MONTH	9	9	9	9	9	9	9
DAY (GMT)	13	13	13	13	13	13	13
TIME (GMT)	0000	0058	0152	0253	0355	0457	0552
LAT (N)	12.65	12.61	12.58	12.55	12.52	12.48	12.45
LON (W)	57.78	57.58	57.40	57.20	56.98	56.77	56.59
SURF T (C)	28.6	28.5	28.7	28.7	28.8	28.7	28.5
28	48	42	45	42	41	41	38
27	62	53	65	66	60	58	55
26	76	71	81	81	81	75	75
25	91	86	97	102	99	91	93
24	97	96	101	108	109	103	102
23	101	107	109	114	115	107	107
22	136	119	117	121	131	119	117
21	144	130	124	127	135	124	129
20	149	137	134	134	140	129	133
19	158	145	146	155	148	135	136
18	176	151	159	171	171	163	141
17	194	159	181	184	188	174	160
16	215	198	202	200	211	183	183
15	232	219	221	232	233	203	194
14	245	232	238	251	256	235	223
13	264	250	273	268	281	266	254
12	283	282	285	315	317	303	270
11	330	327	357	362	375	355	317
10	368	371	408	413	424	401	390
9							
8							
7							
6							

ISOTHERM DEPTHS (M)

R/V MT MITCHELL MIT-STACS32-88

XBT NO.	15	16	17	18	19	20	21
YEAR	88	88	88	88	88	88	88
MONTH	9	9	9	9	9	9	9
DAY (GMT)	13	13	13	13	13	13	14
TIME (GMT)	0655	0803	0900	1000	1056	1940	0625
LAT (N)	12.39	12.35	12.31	12.27	12.24	11.85	11.17
LON (W)	56.35	56.12	55.92	55.73	55.53	54.82	53.55
SURF T (C)	27.9	28.2	28.5	28.4	28.7	28.9	28.5
28	33	32	35	36	39	37	44
27	43	44	57	68	68	64	55
26	70	69	78	79	84	81	63
25	84	84	96	96	105	94	74
24	98	101	105	100	113	99	89
23	108	112	111	103	118	106	94
22	119	123	117	106	122	111	101
21	124	134	130	114	126	115	113
20	128	145	139	123	141	132	122
19	140	152	152	130	153	137	130
18	150	161	163	144	163	147	135
17	159	170	174	173	167	158	142
16	177	176	192	189	179	182	149
15	203	187	205	202	189	203	158
14	213	208	212	218	207	226	167
13	239	229	249	243	256	249	183
12	263	268	276	257	292	279	204
11	293	326	300	321	343	327	230
10	332	354	329	389	387	365	302
9		417	409			424	378
8							
7							
6							

ISOTHERM DEPTHS (M)

R/V MT MITCHELL MIT-STACS32-88

XBT NO.	22	23	24	25	26	27	28
YEAR	88	88	88	88	88	88	88
MONTH	9	9	9	9	9	9	9
DAY (GMT)	14	15	15	15	16	16	16
TIME (GMT)	1834	0455	1328	2303	0727	1329	2007
LAT (N)	10.50	9.67	8.99	8.30	7.64	6.95	6.18
LON (W)	52.13	50.62	49.42	48.17	47.69	48.09	48.65
SURF T (C)	29.4	28.5	28.8	29.2	29.1	28.9	29.1
28	40	48	48	44	47	36	67
27	53	65	64	54	60	59	89
26	64	80	81	66	67	78	103
25	74	93	99	71	72	88	138
24	82	99	104	77	77	95	146
23	88	106	107	84	85	102	149
22	92	115	110	92	90	111	156
21	100	123	128	97	100	119	160
20	104	140	135	102	106	124	161
19	112	144	141	109	116	134	162
18	130	149	148	117	125	140	163
17	140	157	156	123	130	150	165
16	150	172	166	128	136	157	168
15	160	183	178	133	144	163	170
14	173	195	188	143	153	169	173
13	187	206	197	150	171	178	176
12	204	223	217	163	189	191	188
11	250	249	239	190	199	218	218
10	325	320	297	230	220	257	262
9	415	372	391	282	250	338	298
8				422	299	399	371
7					350		
6							

ISOTHERM DEPTHS (M)

R/V MT MITCHELL MIT-STACS32-88

XBT NO.	29	30	31	32	33	34	35
YEAR	88	88	88	88	88	88	88
MONTH	9	9	9	9	9	9	9
DAY (GMT)	17	17	17	17	17	17	17
TIME (GMT)	0258	0851	1241	1456	1601	1700	1800
LAT (N)	5.26	4.66	4.30	4.35	4.58	4.81	5.08
LON (W)	49.02	49.39	49.66	49.76	49.82	49.92	50.10
SURF T (C)	28.7	28.4	27.1	27.2	28.8	28.9	28.9
28	33	20			14	19	15
27	79	89	22	16	79	74	75
26	155	152	152	162	158	145	155
25	161	182	158	166	165	169	164
24	166	186	159	167	168	171	167
23	174	187	160	168	170	171	169
22	176	188	161	170	172	172	171
21	178	189	162	171	174	173	173
20	179	190	162	172	175	174	174
19	180	191	163	173	176	176	176
18	182	192	164	173	177	178	177
17	183	193	165	174	177	181	178
16	184	193	166	175	178	182	180
15	185	194	167	176	179	183	182
14	187	195	168	176	179	184	185
13	194	196	170	177	180	185	187
12	202	198	172	179	181	187	190
11	237	206	182	184	183	203	217
10	287	220	217	205	236	239	242
9	328	301	264	268	310	301	315
8	398	375	355	322	366	359	351
7		412		435	405	433	
6							

ISOTHERM DEPTHS (M)

R/V MT MITCHELL MIT-STACS32-88

XBT NO.	36	37	38	39	40	41	42
YEAR	88	88	88	88	88	88	88
MONTH	9	9	9	9	9	9	9
DAY (GMT)	17	17	17	17	17	17	18
TIME (GMT)	1855	1959	2058	2203	2301	2357	0056
LAT (N)	5.30	5.56	5.81	6.04	6.28	6.51	6.75
LON (W)	50.18	50.24	50.31	50.48	50.60	50.68	50.71
SURF T (C)	28.8	28.8	28.7	28.6	28.7	28.9	28.8
28	17	13	15	14	17	17	18
27	87	111	106	84	115	127	117
26	132	140	151	146	148	156	144
25	172	171	186	176	166	173	164
24	173	173	192	191	177	181	168
23	174	174	193	196	184	184	175
22	175	175	194	197	188	188	185
21	176	177	194	198	191	190	190
20	177	178	195	199	193	192	199
19	178	179	196	200	194	209	207
18	179	180	196	200	198	215	210
17	179	181	197	201	215	220	218
16	180	183	197	202	220	227	223
15	182	186	198	204	229	236	227
14	184	188	199	218	235	245	236
13	188	191	201	224	238	256	248
12	207	201	223	231	246	264	255
11	215	220	237	255	263	274	271
10	229	244	263	275	294	297	302
9	297	311	315	298	332	322	344
8	373	389	368	345	370	361	383
7				415	427	428	419
6							

ISOTHERM DEPTHS (M)

R/V MT MITCHELL MIT-STACS32-88

XBT NO.	43	44	45	46	47	48	49
YEAR	88	88	88	88	88	88	88
MONTH	9	9	9	9	9	9	9
DAY (GMT)	18	18	18	18	18	18	18
TIME (GMT)	0202	0258	0359	0457	0600	0655	0759
LAT (N)	7.00	7.22	7.47	7.70	7.93	8.14	8.37
LON (W)	50.88	50.96	51.06	51.13	51.22	51.32	51.43
SURF T (C)	28.7	28.8	28.8	28.4	28.5	28.5	28.1
28	16	14	14	12	12	14	10
27	133	117	111	89	78	76	32
26	155	145	141	137	124	117	102
25	165	158	149	146	137	136	130
24	170	161	166	160	150	146	137
23	174	174	173	168	160	149	141
22	181	179	179	177	164	154	146
21	189	187	183	185	170	159	149
20	197	193	187	188	172	162	150
19	201	198	205	199	174	165	151
18	204	215	208	204	176	168	152
17	206	219	215	210	179	169	154
16	224	223	225	220	183	172	156
15	229	233	236	225	187	181	164
14	237	246	251	237	194	190	170
13	249	264	268	244	215	205	186
12	253	286	274	302	241	242	215
11	269	305	300	330	295	298	281
10	311	334	348	383	339	353	334
9	342	375	418	435			
8	399	417					
7							
6							

ISOTHERM DEPTHS (M)

R/V MT MITCHELL MIT-STACS32-88

XBT NO.	50	51	52	53	54	55	56
YEAR	88	88	88	88	88	88	88
MONTH	9	9	9	9	9	9	9
DAY (GMT)	18	18	18	18	18	19	20
TIME (GMT)	0902	1000	1058	1702	1914	1900	0030
LAT (N)	8.57	8.78	8.95	8.90	8.61	8.68	8.20
LON (W)	51.58	51.64	51.78	51.83	52.06	52.05	52.35
SURF T (C)	28.1	28.1	28.5	28.5	29.5	28.6	28.6
28	15	29	23	12	17	10	10
27	69	66	46	45	60	53	60
26	109	93	81	71	80	75	91
25	129	106	96	87	92	91	109
24	131	109	105	90	95	96	118
23	133	112	110	93	99	101	122
22	138	117	114	97	105	107	125
21	140	125	118	103	113	113	128
20	143	130	121	109	118	117	135
19	146	133	129	112	122	122	138
18	149	135	133	116	126	124	142
17	151	139	136	118	128	126	145
16	154	143	138	120	130	128	146
15	159	147	141	127	137	137	149
14	168	156	153	136	147	145	151
13	191	188	181	163	169	180	164
12	217	218	220	184	183	196	184
11	285	277	255	223	222	242	244
10	336	344	324	293	280	300	288
9	448	434	400	395	413	409	395
8							
7							
6							

ISOTHERM DEPTHS (M)

R/V MT MITCHELL MIT-STACS32-88

XBT NO.	57	58	59	60	61	62	63
YEAR	88	88	88	88	88	88	88
MONTH	9	9	9	9	9	9	9
DAY (GMT)	20	20	21	21	21	21	21
TIME (GMT)	0523	1230	0758	0909	1000	1055	2001
LAT (N)	8.01	7.78	7.58	7.43	7.35	7.24	7.02
LON (W)	52.52	52.65	52.83	52.90	53.01	53.03	53.09
SURF T (C)	28.2	27.8	28.1	27.8	27.6	27.7	28.3
28	7		7				4
27	55	45	67	64	20	26	20
26	94	93	72	80	72	70	65
25	101	99	77	83	80	78	69
24	111	106	81	92	89	93	73
23	121	113	89	98	95	96	75
22	128	118	105	104	100	109	81
21	131	121	111	109	112	122	90
20	137	125	115	115	127	129	106
19	140	129	120	121	138	139	140
18	153	133	128	126	149	149	152
17	156	147	131	131	159	159	159
16	158	151	134	138	174	165	171
15	161	157	173	176	182	173	184
14	166	165	194	196	195	188	
13	171	175	204	206	208	205	
12	186	218	219	211	223	218	
11	238	257	249	220	251	245	
10	289	299	293	237	273	287	
9	379	388		256	355	362	
8	426	437			420	417	
7							
6							

ISOTHERM DEPTHS (M)

R/V MT MITCHELL MIT-STACS32-88

XBT NO.	64	65	66	67	68	69	70
YEAR	88	88	88	88	88	88	88
MONTH	9	9	9	9	9	9	9
DAY (GMT)	21	22	22	22	22	22	22
TIME (GMT)	2306	0004	0103	0150	0255	0357	0452
LAT (N)	7.09	7.23	7.35	7.46	7.60	7.72	7.81
LON (W)	53.10	53.22	53.32	53.41	53.56	53.69	53.80
SURF T (C)	27.9	27.8	27.5	27.9	28.1	28.1	28.3
28	4						
27	16	21	42	48	12	19	17
26	59	57	61	64	50	52	68
25	66	71	72	70	62	59	78
24	80	73	76	79	70	64	86
23	89	77	92	89	75	78	92
22	108	91	97	101	87	85	97
21	126	96	117	110	93	94	104
20	138	111	125	128	108	107	110
19	149	123	142	135	121	125	115
18	168	140	147	154	130	131	123
17	175	169	164	162	135	139	133
16	181	184	193	168	143	151	141
15	192	197	202	190	154	163	152
14	214	213	215	200	175	181	164
13	228	224	222	211	185	191	176
12	238	258	234	225	195	211	189
11		282	254	263	207	225	201
10			300	308	240	247	217
9					285	260	242
8					331	348	283
7						396	377
6							

ISOTHERM DEPTHS (M)

R/V MT MITCHELL MIT-STACS32-88

XBT NO.	71	72	73	74	75	76	77
YEAR	88	88	88	88	88	88	88
MONTH	9	9	9	9	9	9	9
DAY (GMT)	22	22	22	22	22	22	22
TIME (GMT)	0554	0657	0801	0903	1000	1100	1200
LAT (N)	7.93	8.05	8.18	8.30	8.38	8.49	8.64
LON (W)	53.93	54.06	54.19	54.31	54.44	54.54	54.65
SURF T (C)	28.4	28.4	29.1	29.0	29.1	29.3	29.2
28	16	34	41	28	37	31	29
27	61	66	63	53	52	50	49
26	73	76	74	69	61	63	60
25	83	88	78	74	69	68	67
24	90	92	84	78	74	72	77
23	96	100	89	86	86	82	82
22	105	109	92	97	91	87	87
21	111	116	100	110	95	95	90
20	120	121	112	119	107	99	94
19	139	127	128	125	113	110	99
18	147	135	144	141	121	117	103
17	152	147	153	146	132	125	105
16	159	155	164	159	139	136	108
15	168	174	173	168	148	147	114
14	177	187	183	180	154	154	118
13	188	203	198	202	164	163	127
12	210	216	219	222	177	214	142
11	237	248	250	293	210	314	195
10	278	315	314	337	304		263
9	307	363	365	413	377		369
8	398		410		475		492
7			496				
6							

ISOTHERM DEPTHS (M)

R/V MT MITCHELL MIT-STACS32-88

XBT NO.	78	79	80	81	82	83	84
YEAR	88	88	88	88	88	88	88
MONTH	9	9	9	9	9	9	9
DAY (GMT)	22	22	22	22	22	22	22
TIME (GMT)	1258	1403	1501	1555	1651	1753	1852
LAT (N)	8.73	8.86	8.98	9.08	9.18	9.29	9.38
LON (W)	54.74	54.85	54.96	55.06	55.17	55.28	55.41
SURF T (C)	29.2	29.2	29.5	29.3	29.3	29.4	29.7
28	33	31	31	30	32	33	35
27	48	48	56	48	51	53	57
26	61	62	66	67	69	71	74
25	69	74	73	75	79	79	78
24	75	78	82	87	91	86	87
23	80	82	87	90	97	96	96
22	82	85	90	93	102	102	106
21	84	91	94	97	105	111	117
20	94	99	102	104	108	122	124
19	102	111	110	111	119	136	139
18	107	114	115	136	140	148	148
17	109	117	119	147	160	158	157
16	112	120	134	153	165	176	167
15	116	122	138	160	181	190	180
14	119	126	141	176	195	205	191
13	124	138	158	185	216	230	209
12	141	159	185	199	253	245	237
11	200	221	224	233	283	292	267
10	279	298	317	366	334	341	309
9	384	386	378	403	377	391	370
8		483		444	427	436	417
7				476		473	
6				575		554	

ISOTHERM DEPTHS (M)

R/V MT MITCHELL MIT-STACS32-88

XBT NO.	85	86	87	88	89	90	91
YEAR	88	88	88	88	88	88	88
MONTH	9	9	9	9	9	9	9
DAY (GMT)	22	22	22	22	23	23	23
TIME (GMT)	1958	2058	2158	2259	0001	0100	0202
LAT (N)	9.51	9.63	9.74	9.85	9.95	10.06	10.16
LON (W)	55.54	55.65	55.74	55.85	55.95	56.06	56.17
SURF T (C)	29.3	29.4	29.2	29.1	29.3	29.2	29.3
28	33	39	44	36	41	43	42
27	52	59	63	51	55	55	57
26	73	77	82	66	68	71	68
25	78	86	90	77	77	79	78
24	84	92	94	86	84	87	85
23	93	103	97	91	94	94	91
22	104	108	111	99	105	111	105
21	117	123	114	118	116	119	116
20	126	129	130	128	121	126	128
19	133	137	138	137	134	133	136
18	144	147	143	149	145	142	144
17	149	159	151	159	152	155	156
16	160	175	161	167	162	163	162
15	175	194	180	177	173	172	170
14	192	209	194	191	186	185	182
13	208	232	210	204	194	208	198
12	219	242	226	225	210	218	219
11	238	257	250	245	249	276	276
10	259	286	261	290	309	313	306
9	324	317	281	339	367	368	351
8	367	349	336	396	429		433
7	439	403	408		520		526
6	571		494		636		671

ISOTHERM DEPTHS (M)

R/V MT MITCHELL MIT-STACS32-88

XBT NO.	92	93	94	95	96	97	98
YEAR	88	88	88	88	88	88	88
MONTH	9	9	9	9	9	9	9
DAY (GMT)	23	23	23	23	23	24	24
TIME (GMT)	0259	0848	1346	1740	2142	0105	0203
LAT (N)	10.26	9.79	9.24	8.84	8.40	8.36	8.49
LON (W)	56.27	56.64	56.99	57.26	57.53	57.68	57.75
SURF T (C)	29.2	29.2	29.4	29.7	29.5	29.3	29.0
28	44	58	67	70	57	64	51
27	58	79	87	96	73	81	75
26	71	93	94	107	82	88	81
25	81	103	108	119	96	99	92
24	86	113	129	130	100	103	99
23	91	121	138	162	110	111	108
22	106	125	147	167	126	127	122
21	114	145	152	173	147	147	137
20	124	155	159	184	156	153	157
19	137	167	168	193	163	173	163
18	146	175	175	204	169	183	169
17	153	183	194	212	179	207	181
16	163	194	202	225	190	216	193
15	173	211	211	238	212	223	201
14	179	219	222	249	227	238	215
13	195	255	233	264	242	255	242
12	209	261	248	283	258	276	253
11	267	294	304	326	282	324	269
10	305	330	343	367	313	363	311
9	375		396		359		357
8							414
7							504
6							628

ISOTHERM DEPTHS (M)

R/V MT MITCHELL MIT-STACS32-88

XBT NO.	99	100	101	102	103	104	105
YEAR	88	88	88	88	88	88	88
MONTH	9	9	9	9	9	9	9
DAY (GMT)	24	23	23	23	23	23	23
TIME (GMT)	0255	0100	0202	0259	0848	1346	1740
LAT (N)	8.67	10.06	10.16	10.26	9.79	9.24	8.84
LON (W)	57.81	56.06	56.17	56.27	56.64	56.99	57.26
SURF T (C)	29.5	29.2	29.3	29.2	29.2	29.4	29.7
28	67	43	42	44	58	67	70
27	81	55	57	58	79	87	96
26	89	71	68	71	93	94	107
25	95	79	78	81	103	108	119
24	104	87	85	86	113	129	130
23	112	94	91	91	121	138	162
22	133	111	105	106	125	147	167
21	157	119	116	114	145	152	173
20	171	126	128	124	155	159	184
19	179	133	136	137	167	168	193
18	187	142	144	146	175	175	204
17	192	155	156	153	183	194	212
16	199	163	162	163	194	202	225
15	212	172	170	173	211	211	238
14	228	185	182	179	219	222	249
13	248	208	198	195	255	233	264
12	264	218	219	209	261	248	283
11	299	276	276	267	294	304	326
10	335	313	306	305	330	343	367
9	376	368	351	375	383	396	427
8			433				
7			526				
6			662				

ISOTHERM DEPTHS (M)

R/V MT MITCHELL MIT-STACS32-88

XBT NO.	106	107	108	109	110	111	112
YEAR	88	88	88	88	88	88	88
MONTH	9	9	9	9	9	9	9
DAY (GMT)	23	24	24	24	24	24	24
TIME (GMT)	2142	0105	0203	0255	1353	1459	1557
LAT (N)	8.40	8.36	8.49	8.67	10.49	10.66	10.81
LON (W)	57.53	57.68	57.75	57.81	58.57	58.62	58.70
SURF T (C)	29.5	29.3	29.0	29.5	29.4	29.5	29.6
28	57	64	51	67	62	63	56
27	73	81	75	81	70	76	73
26	82	88	81	89	79	80	81
25	96	99	92	95	87	83	87
24	100	103	99	104	91	89	94
23	110	111	108	112	95	109	98
22	126	127	122	133	102	114	101
21	147	147	137	157	120	129	115
20	156	153	157	171	134	136	131
19	163	173	163	179	142	145	141
18	169	183	169	187	150	157	154
17	179	207	181	192	159	166	167
16	190	216	193	199	175	180	175
15	212	223	201	212	194	195	191
14	227	238	215	228	210	202	210
13	242	255	242	248	238	214	228
12	258	276	253	264	255	246	247
11	282	324	269	299	289	292	284
10	313	363	311	335	331	331	313
9	359		357	376	392	386	343
8			414		477		412
7			504		557		504
6			629				667

ISOTHERM DEPTHS (M)

R/V MT MITCHELL MIT-STACS32-88

XBT NO.	113	114	115	116	117	118	119
YEAR	88	88	88	88	88	88	88
MONTH	9	9	9	9	9	9	9
DAY (GMT)	24	24	24	24	24	24	24
TIME (GMT)	1653	1757	1859	1959	2102	2201	2301
LAT (N)	10.97	11.12	11.25	11.41	11.58	11.73	11.88
LON (W)	58.76	58.86	58.95	59.02	59.10	59.16	59.23
SURF T (C)	29.4	29.9	29.6	30.2	29.6	29.4	29.2
28	50	38	33	43	35	39	39
27	63	67	49	69	64	73	65
26	82	79	64	80	78	90	87
25	88	86	75	89	84	111	98
24	97	105	99	110	105	119	123
23	108	114	107	119	115	132	139
22	116	119	119	134	137	138	145
21	121	130	134	139	151	156	153
20	129	139	144	150	163	168	159
19	137	147	151	161	167	183	168
18	148	166	167	169	183	193	186
17	166	177	179	189	207	207	209
16	178	183	198	212	221	221	229
15	195	190	215	228	240	232	254
14	213	209	236	246	252	258	271
13	226	235	259	262	278	275	291
12	243	258	296	273	297	296	315
11	294	272	321	305	345	320	343
10	326	303	377	353	412	374	391
9	356	353	416	396		471	440
8	411	404		443		549	
7		480		539		601	
6		672		645		648	

ISOTHERM DEPTHS (M)

R/V MT MITCHELL MIT-STACS32-88

XBT NO.	120	121	122	123	124	125	126
YEAR	88	88	88	88	88	88	88
MONTH	9	9	9	9	9	9	9
DAY (GMT)	25	25	25	25	25	25	25
TIME (GMT)	0001	0103	0201	0301	0354	0450	0550
LAT (N)	12.01	12.15	12.26	12.41	12.52	12.59	12.68
LON (W)	59.28	59.33	59.37	59.43	59.47	59.50	59.53
SURF T (C)	29.3	29.2	28.9	28.9	28.8	29.1	29.1
28	36	39	32	46	36	43	51
27	66	60	53	62	54	60	62
26	79	75	74	80	75	76	76
25	94	93	100	93	93	97	95
24	113	108	115	112	106	109	104
23	122	118	124	121	117	125	115
22	136	131	137	131	131	143	125
21	144	143	146	145	138	156	144
20	152	160	153	152	154	174	156
19	166	174	160	163	171	189	173
18	183	183	173	190	185	196	185
17	200	197	197	199	203	214	199
16	219	208	212	217	218	231	214
15	234	226	227	231	229	248	240
14	247	245	250	244	244	270	262
13	265	272	265	259	259	283	278
12	282	294	283	275	282	290	294
11	332	315	313	315	308	342	31?
10	389	386	365	360	338	370	373
9	443		413	417	390	420	417
8	525		495		462		488
7	574		594		570		581
6	668		709		689		683

ISOTHERM DEPTHS (M)

R/V MT MITCHELL MIT-STACS32-88

XBT NO.	127	128	129	130	131	132	133
YEAR	88	88	88	88	88	88	88
MONTH	9	9	9	9	9	9	9
DAY (GMT)	25	25	26	26	26	27	27
TIME (GMT)	0656	0803	0004	0434	1156	0001	1200
LAT (N)	12.77	12.86	13.31	13.73	15.03	17.05	18.75
LON (W)	59.57	59.61	60.36	61.18	62.44	64.42	66.21
SURF T (C)	28.8	28.5	29.6	29.3	29.0	29.3	28.5
28	49	55	46	47	51	58	49
27	68	69	57	64	63	70	57
26	79	82	69	88	81	77	73
25	88	92	83	113	95	92	107
24	100	97	97	125	107	108	122
23	109	111	111	134	113	130	147
22	120	127	146	150	144	144	162
21	131	140	150	156	159	158	175
20	147	157	174	173	172	177	197
19	158	174	190	186	198	199	228
18	184	182	205	197	214	227	269
17	197	206	220	208	231	241	303
16	208	229	244	224	250	266	342
15	227	261	273	249	276	290	400
14	238	281	302	284	310	325	446
13	247	292	330	308	350	358	
12	261	309	357	335	375	384	
11	297	319	387	365	426	438	
10	335	337	421	429			
9	415	410					
8							
7							
6							

ISOTHERM DEPTHS (M)

R/V MT MITCHELL MIT-STACS32-88

XBT NO.	134	135	136	137	138	139	140
YEAR	88	88	88	88	88	88	88
MONTH	9	9	9	9	9	10	10
DAY (GMT)	28	28	29	29	29	4	4
TIME (GMT)	0001	1200	0000	0008	1201	0000	1200
LAT (N)	19.63	20.31	23.54	21.04	21.95	27.02	27.47
LON (W)	68.98	71.79	79.26	74.57	77.19	79.68	78.92
SURF T (C)	28.8	28.1	29.0	29.1	28.8	28.7	28.6
28	26	7	45	19	46	56	79
27	38	33	73	30	58	75	86
26	58	48	96	46	66	83	95
25	74	67	120	65	101	98	104
24	95	93	141	104	115	109	113
23	141	113	156	141	147	121	128
22	162	129	178	162	172	133	156
21	177	160	202	179	199	143	180
20	197	200	234	204	224	166	205
19	226	222	267	243	254	194	248
18	275	274	310	319	307	210	
17	333	338	347	364	361	228	
16	391	390	389	399	409	256	
15	436	427	437			283	
14						311	
13						348	
12						366	
11						391	
10						417	
9							
8							
7							
6							

ISOTHERM DEPTHS (M)

R/V MT MITCHELL MIT-STACS32-88

XBT NO.	141	142	143	144	145	146	147
YEAR	88	88	88	88	88	88	88
MONTH	10	10	10	10	10	10	10
DAY (GMT)	5	5	6	6	7	8	9
TIME (GMT)	0007	0929	0001	0800	0002	0000	0009
LAT (N)	26.55	26.52	26.50	26.49	26.46	26.53	25.78
LON (W)	76.84	76.76	76.45	76.53	76.15	76.74	77.23
SURF T (C)	28.7	28.7	28.5	28.4	28.5	28.4	28.6
28	61	58	49	49	46	43	59
27	65	62	52	53	49	49	68
26	71	67	59	61	60	56	75
25	75	82	68	72	71	66	94
24	104	101	83	90	82	80	101
23	131	121	105	106	98	97	130
22	154	139	138	128	123	127	148
21	180	163	162	156	149	153	170
20	219	195	190	207	177	190	193
19	274	275	253	255	236	249	262
18	387	386	402	374	375	372	346
17							408
16							
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