NOAA Data Report ERL AOML-12

# CURRENT VELOCITY AND HYDROGRAPHIC OBSERVATIONS IN THE SOUTHWESTERN NORTH ATLANTIC OCEAN: SUBTROPICAL ATLANTIC CLIMATE STUDIES (STACS), 1987

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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 the period of this report (1987) continued the observational studies of western boundary currents, extending the study area southward to Brazil (4°N) in order to examine the contribution of cross-equatorial boundary currents to the North Atlantic mass and heat fluxes. Pegasus and CTD data were collected along the sections shown in Figure 1. Actual sampling stations are shown in Figure 2 for the March cruise and Figure 3 for the September cruise. Each section is not necessarily occupied during a particular cruise. CTD station positions also vary. In addition, continuous profiles of upper layer current structure were obtained along the trackline using an Ametek-Straza system. These data will appear in another report.

# II. DATA COLLECTION AND ANALYSIS

Data from STACS cruises conducted on the NOAA Ship RESEARCHER during two cruises--March and September 1987--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 system is shown in Figure 4. 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 frequency of 10 KHz at an interval of eight or sixteen seconds. Each

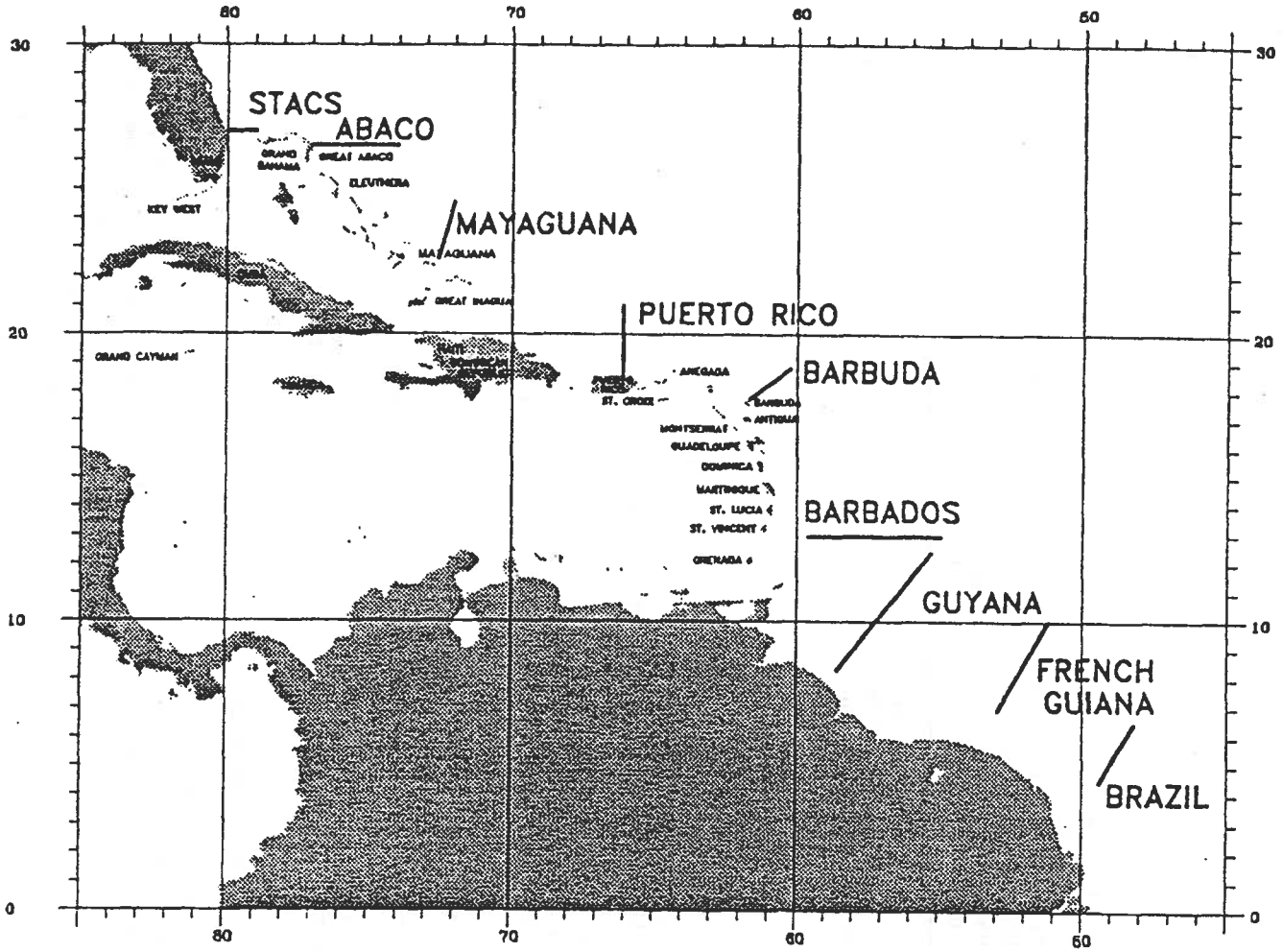


Figure 1. Map of the STACS study area. CTD observations are collected on all sections; Pegasus profiles are collected along the Abaco and French Guiana sections. Ametek-Straza data are also collected along the sections.

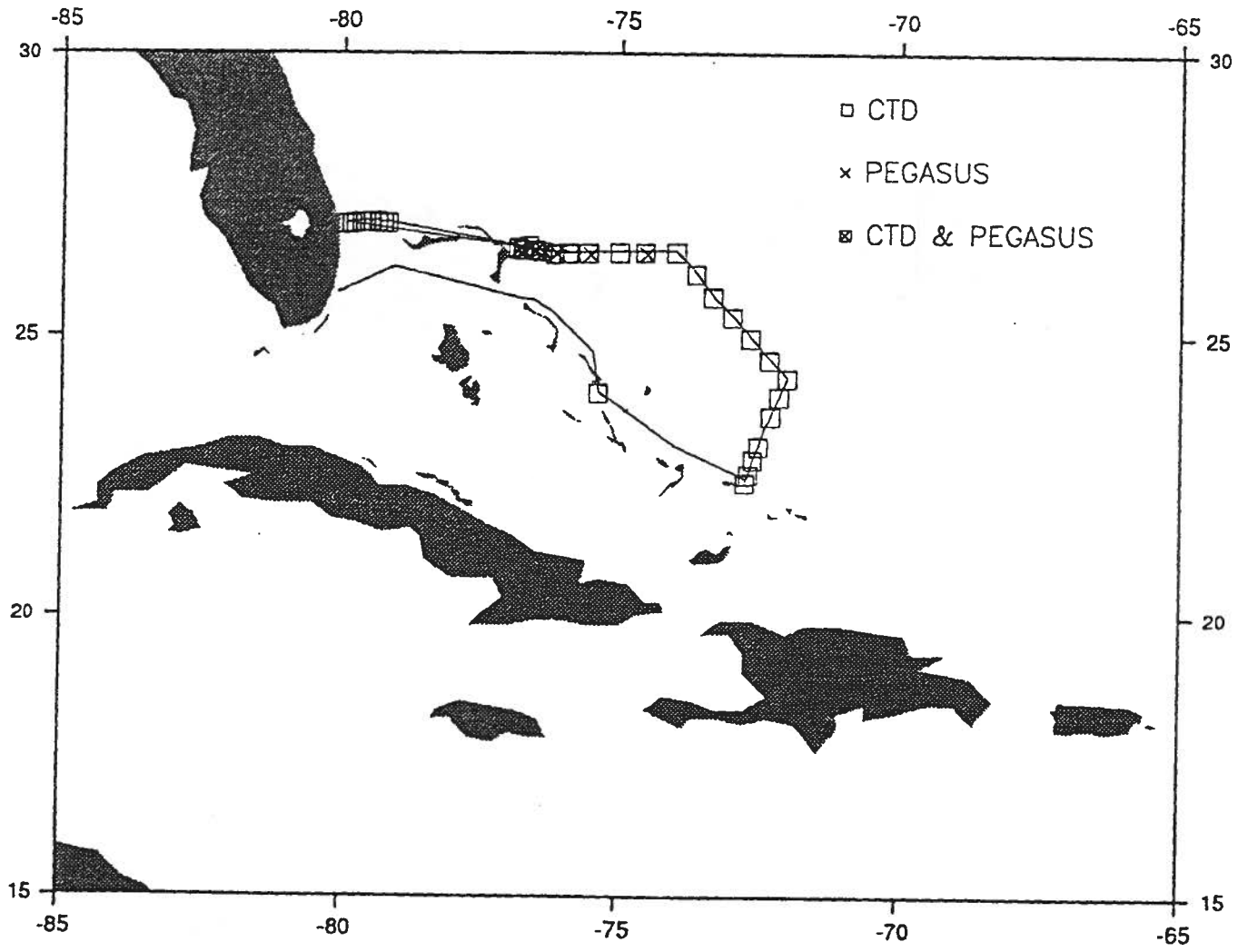


Figure 2: STACS Cruise Track for MARCH 1987 showing CTD & PEGASUS sampling stations

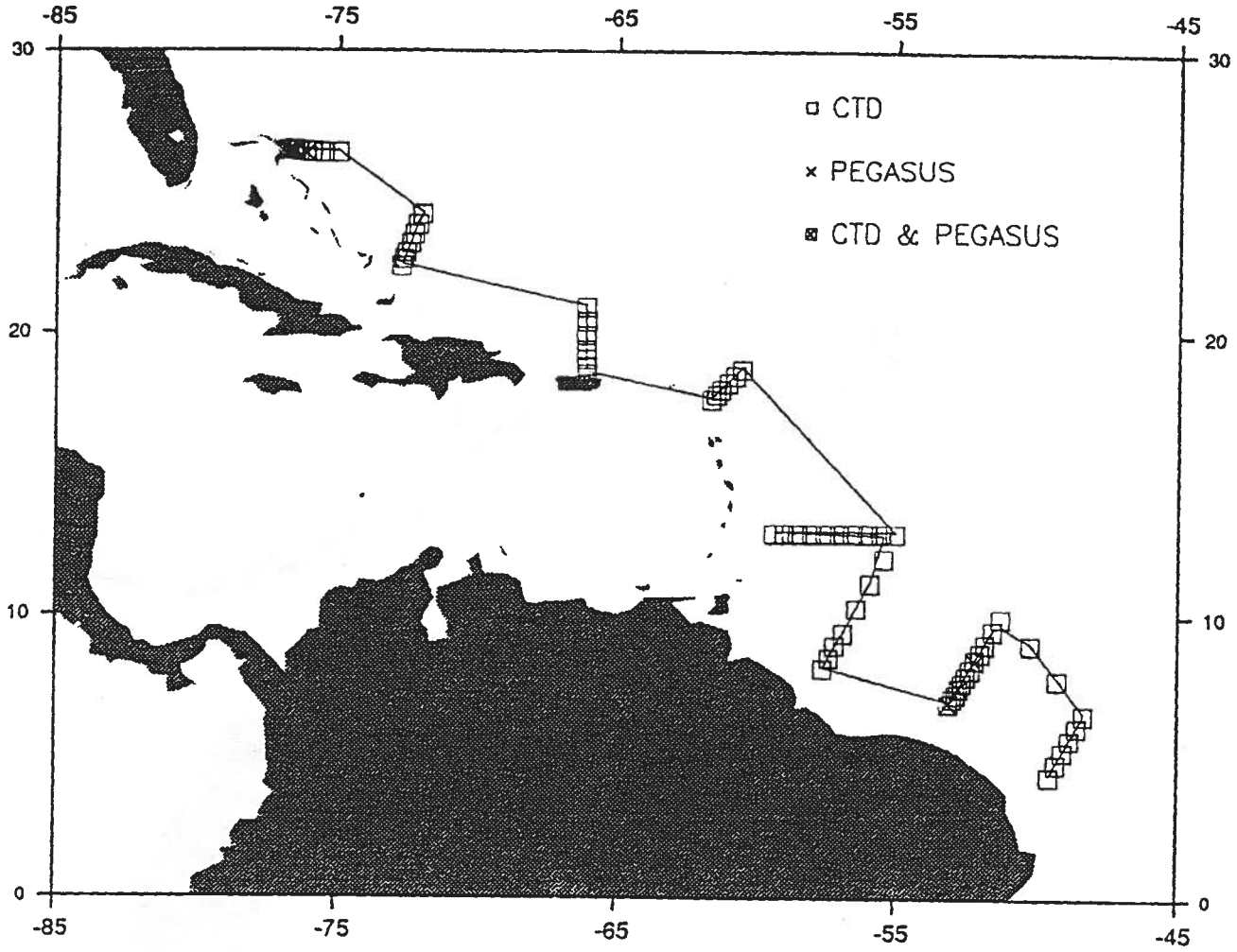


Figure 3: STACS Cruise Track for SEPTEMBER 1987 showing CTD & PEGASUS sampling stations

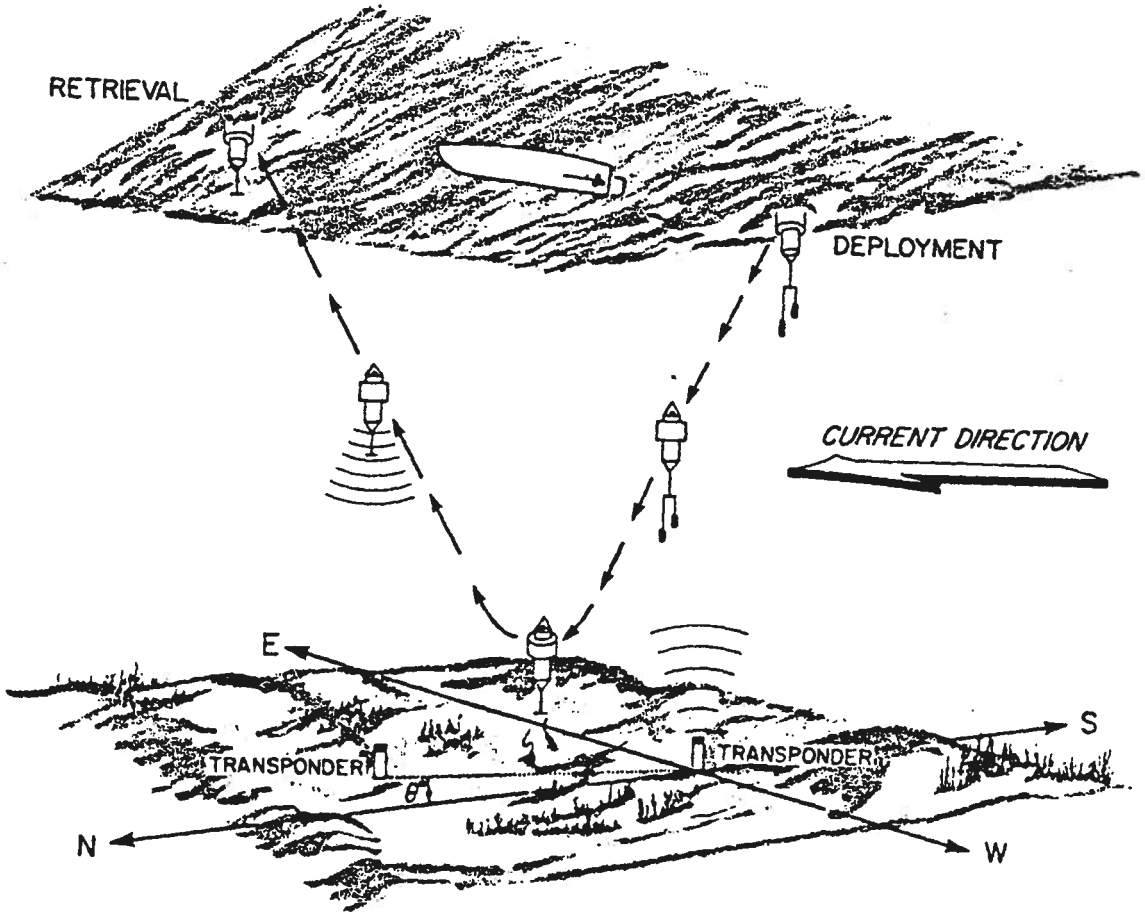


Figure 4. Schematic of the Pegasus current profiler.

Table 1. Types of Data Collected by Cruise.

| Cruise | Vessel | Dates | Pegasus | CTD | XBT | Ametek-Straza |
|---|---|---|---|---|---|---|
| March 1987 (RES-STACS 27-87) | RESEARCHER | 3/11-3/23/87 | 10 | 42 | 35 | Continuous |
| September 1987 (RES-STACS 28-87) | RESEARCHER | 9/1-10/1/87 | 7 | 66 | 128 | Continuous |

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°31.74′ | 76°21.55′ | 13.0 | | |
| | 26°31.62′ | 76°24.09′ | 12.0 | 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′ | | | |
| 36 | 26°30.20′ | 74°32.97′ | 12.0 | 4460 | 1665 |
| | 26°30.12′ | 74°30.31′ | | | |

### 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. Rosette thermometer temperature data are in agreement with the CTD temperatures to within $\pm$ .01°C. 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 in Wilburn et al. (1986a, 1986b), and summarized below.

a. The bottle salinity data are first corrected for the particular batch of standard water used relative to batch P80 (Mantyla, 1986) to ensure cruise-to-cruise consistency within the STACS program and to facilitate intercomparisons with data collected during the Transient Tracers in the Ocean (TTO) program (Williams, 1986a, 1986b). The bottle salinities are edited for bad values based on graphical comparisons with the TTO regional potential temperature vs. salinity (TS) relationship.

b. The raw CTD salinity profiles are examined for sensor drift by examination of the TS relationship in the deep water, and divided into calibration subgroups if necessary. A least squares regression is run on the "delta" (bottle minus CTD salinity) vs. depth data sets for each

subgroup, and polynomial or linear fits are obtained over appropriate portions of the water column.

c. The raw CTD salinity profiles are calibrated using the results of the regressions, and the TS correlation checked again. If there still appear to be calibration problems, typically due to insufficient high quality bottle salinity data, then the historical deep water TS relationship is used directly for the calibration. 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 calibration corrections, follow.

March 1987:

Standard seawater batch number P103 was used, requiring a correction of -.003 ppt relative to batch P80. Due to problems in maintaining a consistent temperature in the laboratory where the Autosal was used, the bottle salinity values were widely scattered, and extensive editing was required. In addition, the CTD showed pronounced drift, especially during the first five casts, requiring individual calibrations based upon the historical TS relationship. There did not appear to be significant depth-dependence to the offset. The CTD sensor drift problem corrected itself over time, and the various subgroups (casts 6-10, 11-14, 15-24, and 25-42) were internally very consistent.

The calibration corrections used for the March data during the time of CTD sensor drift are as tabulated below:

| Cast | Correction |
|---|---|
| 1,2,4 | .003 ppt |
| 3 | -.002 ppt |
| 5 | -.004 ppt |
| 6-10 | -.005 ppt |
| 11-14 | -.006 ppt |

The linear calibration curves derived from the delta vs. depth analysis for casts 15-24 and 25-42, respectively, are of the form:

$$S_{cal} = S_{CTD} - .004 - 10^{-6} * \text{pressure}$$

$$S_{cal} = S_{CTD} - .002 - 10^{-6} * \text{pressure}$$

September 1987:

Standard seawater batch number P103 was used, requiring a correction of -.003 ppt relative to batch P80. Bottle salinities were in close agreement with historical data, to within $\pm$ .002 ppt in the deep water indicating improved STACS data quality. Toward the end of the cruise the quality of the

bottle salinity data began to deteriorate because of temperature problems in the laboratory. These values are not used in the analysis. The CTD sensor operated well during this cruise, with some drift during the first eight casts but very steady performance for the remainder.

The calibration corrections used for the first three casts when the CTD drifted most extremely are as listed below:

| Cast | Correction |
|---|---|
| 1,2 | .011 |
| 3 | .005 |

The calibration curves used for casts 4 through 8 are of the form:

0 to 900 m

$$S_{cal} = S_{CTD} - .0038 + 9.76\ 10^{-6} * P - 3.88\ 10^{-9} * P^2 + 4.40\ 10^{-13} * P^3$$

900 m to bottom

$$S_{cal} = S_{CTD} + .002$$

The calibration curves used for the remainder of the September cruise (casts 9-66) are as follows:

0 to 1200 m

$$S_{cal} = S_{CTD} - .0057 + 4.91\ 10^{-6} * P - 1.76\ 10^{-9} * P^2 + 1.98\ 10^{-13} * P^3$$

1200 m to bottom

$$S_{cal} = S_{CTD} - .0023 + 2.60\ 10^{-7} * P$$

These values were obtained from the delta vs. pressure analysis of casts 9-25, as shown in Figure 5. The error associated with scatter of the bottle values around the regression curve is $\pm$ .003 ppt.

## C. XBT Data

T-6 expendable bathythermograph (XBT) probes which record a temperature profile down to 450 meters and T-7 XBT probes which record a temperature profile down to 750 meters were used during all of the cruises covered in this data report. Appendix C presents XBT data by cruises and cast number.

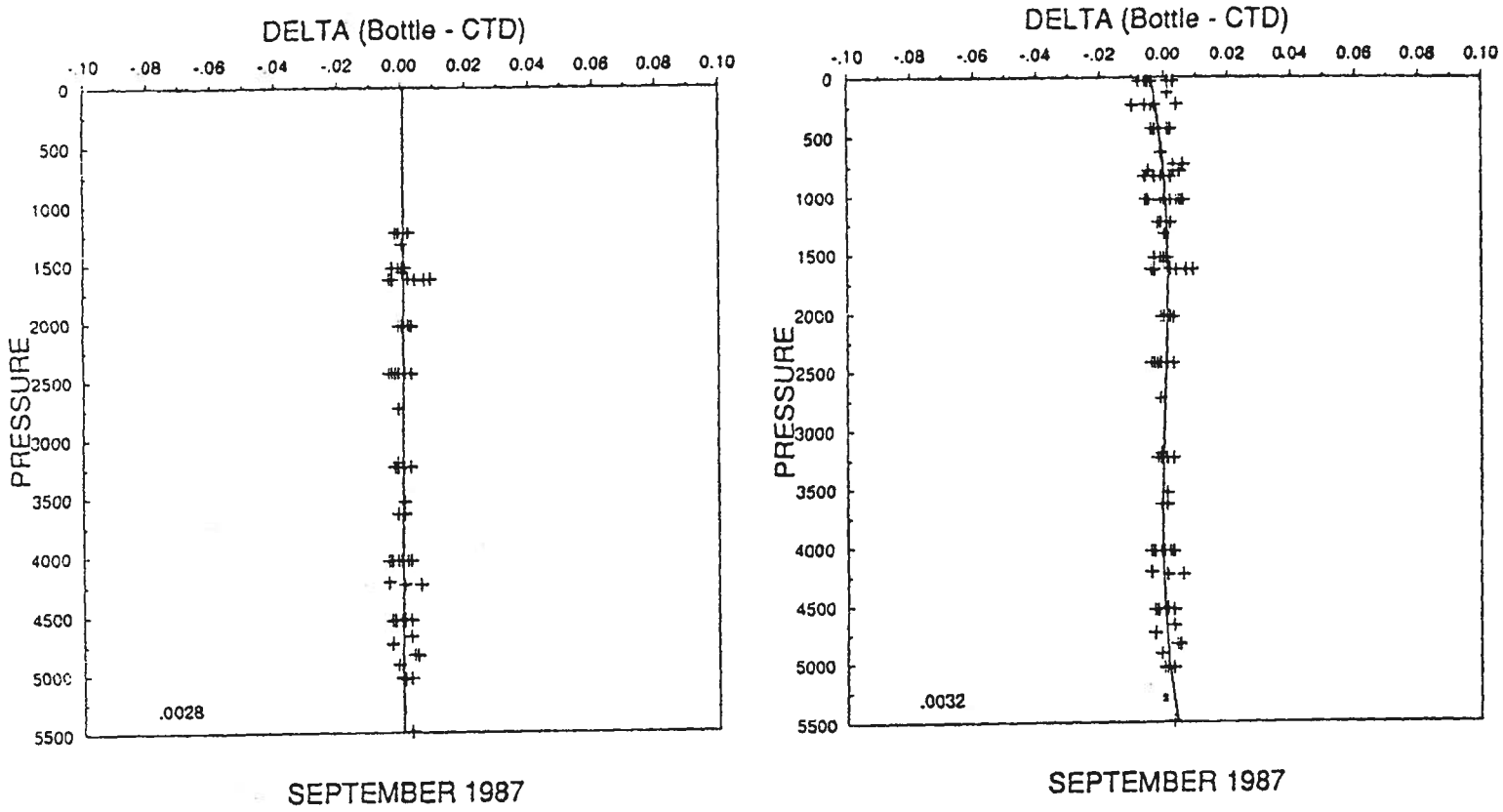


Figure 5. Delta vs. pressure correlations for September 1987, CTD casts 9-25. The left panel is the linear fit between 1200 m and the bottom, and the right panel is the third order polynomial fit over the entire water column.

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## IV. ACKNOWLEDGMENTS

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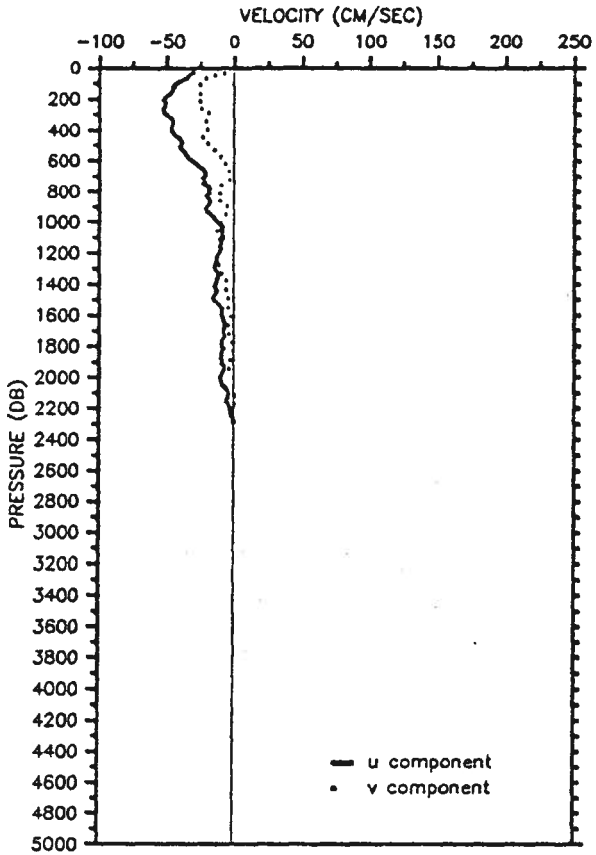
## APPENDIX A: PEGASUS DATA

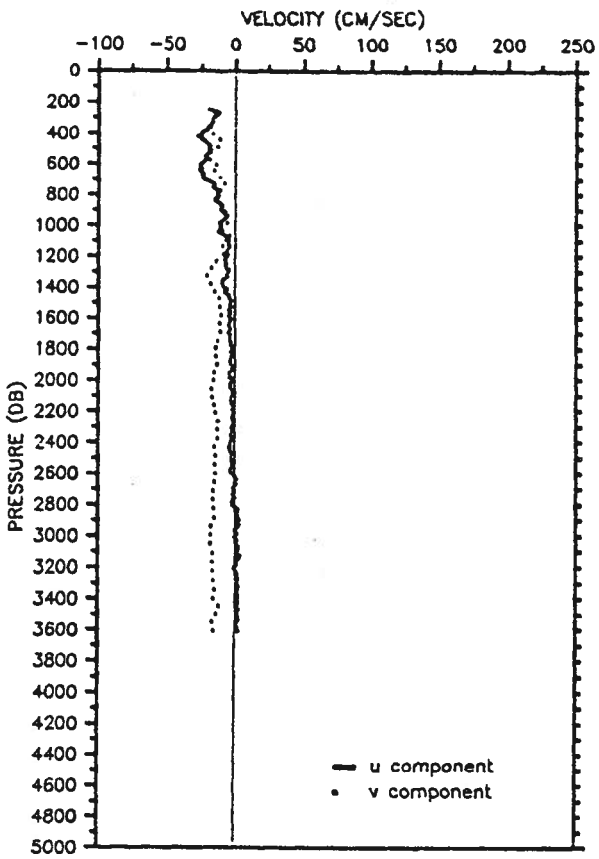
Casts are presented by cruise and increasing cast number. The cruise number and vessel, Pegasus cast and station number, Julian day and time, and position are shown at the top of each plot. "U" represents the east component of velocity. "V" represents the north component. Casts where there are no data 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.

RES-STACS27-87 PEGASUS 8 STN 35
R/V RESEARCHER JDAY 76 TIME 1821Z
Latitude 26.469 N Longitude 075.527 W



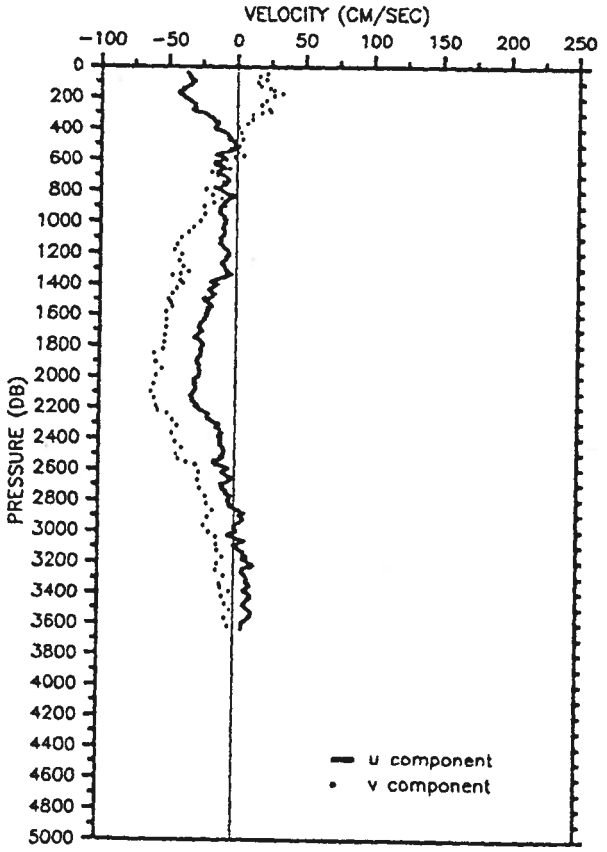

| Prs | U | V |
|---|---|---|
| 30 | -30.5 | -7.3 |
| 40 | -32.8 | -12.5 |
| 50 | -34.2 | -17.9 |
| 60 | -35.1 | -21.0 |
| 70 | -37.0 | -22.3 |
| 80 | -39.3 | -23.4 |
| 90 | -41.5 | -24.1 |
| 100 | -43.1 | -24.7 |
| 110 | -44.2 | -25.4 |
| 120 | -45.3 | -25.8 |
| 130 | -45.7 | -25.1 |
| 140 | -45.8 | -24.8 |
| 150 | -46.6 | -25.0 |
| 160 | -47.6 | -25.0 |
| 170 | -48.8 | -25.1 |
| 180 | -50.0 | -25.3 |
| 190 | -51.2 | -24.9 |
| 200 | -51.6 | -24.4 |
| 250 | -51.3 | -25.1 |
| 300 | -50.1 | -18.5 |
| 350 | -45.7 | -20.2 |
| 400 | -46.3 | -20.5 |
| 450 | -40.5 | -23.2 |
| 500 | -39.6 | -16.4 |
| 550 | -36.4 | -12.0 |
| 600 | -31.5 | -6.6 |
| 650 | -23.5 | -4.5 |
| 700 | -21.5 | -2.4 |
| 750 | -23.0 | -8.5 |
| 800 | -18.5 | -9.9 |
| 850 | -18.3 | -10.8 |
| 900 | -20.0 | -4.7 |
| 950 | -17.0 | -5.8 |
| 1000 | -12.0 | -9.3 |
| 1500 | -14.4 | -3.9 |
| 2000 | -9.7 | -0.3 |
| 2290 | -0.5 | 0.9 |

RES-STACS27-87 PEGASUS 9 STN 34
R/V RESEARCHER JDAY 77 TIME 0355Z
Latitude 26.491 N Longitude 076.139 W



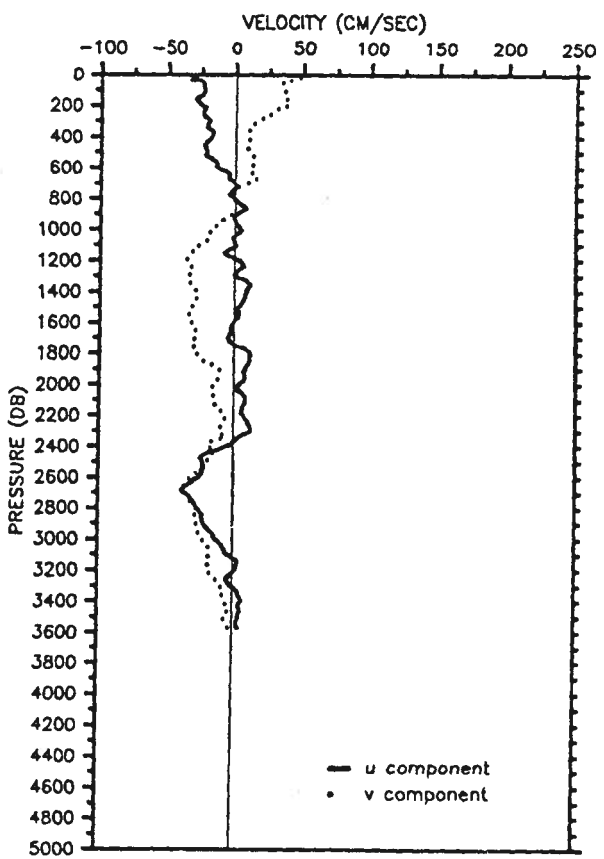

| Prs | U | V |
|---|---|---|
| 250 | -19.0 | -16.7 |
| 300 | -16.3 | -15.6 |
| 350 | -19.6 | -19.0 |
| 400 | -24.8 | -16.8 |
| 450 | -22.9 | -12.1 |
| 500 | -19.6 | -14.8 |
| 550 | -22.2 | -20.1 |
| 600 | -25.3 | -14.1 |
| 650 | -25.6 | -13.2 |
| 700 | -22.5 | -8.8 |
| 750 | -16.7 | -9.6 |
| 800 | -13.3 | -13.1 |
| 850 | -13.7 | -14.3 |
| 900 | -11.0 | -7.8 |
| 950 | -7.1 | -4.0 |
| 1000 | -11.0 | -6.7 |
| 1500 | -3.5 | -11.1 |
| 2000 | -2.1 | -16.3 |
| 2500 | -2.7 | -14.5 |
| 3000 | 1.1 | -17.9 |
| 3500 | 1.8 | -13.7 |
| 3810 | 2.1 | -16.0 |

RES-STACS27-87 PEGASUS 11 STN 16
R/V RESEARCHER JDAY 78 TIME 0059Z
Latitude 26.539 N Longitude 076.531 W



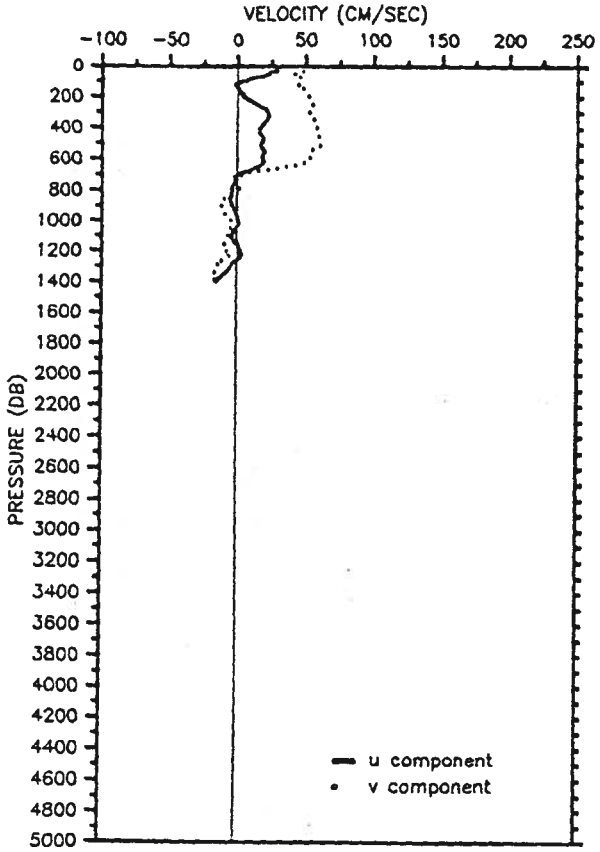

| Prs | U | V |
|---|---|---|
| 40 | -36.8 | 21.6 |
| 50 | -35.2 | 15.9 |
| 60 | -34.3 | 17.0 |
| 70 | -34.7 | 18.0 |
| 80 | -33.9 | 22.0 |
| 90 | -31.3 | 18.1 |
| 100 | -32.6 | 14.2 |
| 110 | -33.6 | 12.8 |
| 120 | -33.4 | 15.0 |
| 130 | -36.2 | 19.3 |
| 140 | -40.3 | 28.3 |
| 150 | -39.0 | 24.4 |
| 160 | -41.4 | 29.9 |
| 170 | -42.8 | 33.0 |
| 180 | -41.1 | 29.2 |
| 190 | -39.4 | 25.2 |
| 200 | -38.3 | 22.9 |
| 250 | -31.2 | 18.5 |
| 300 | -24.1 | 13.3 |
| 350 | -16.0 | 11.6 |
| 400 | -15.8 | -0.3 |
| 450 | -5.5 | 5.5 |
| 500 | -1.4 | 3.5 |
| 550 | -7.6 | 0.4 |
| 600 | -8.2 | -7.1 |
| 650 | -10.2 | -8.4 |
| 700 | -10.7 | -14.1 |
| 750 | -8.8 | -11.9 |
| 800 | -11.3 | -22.1 |
| 850 | -3.8 | -11.7 |
| 900 | -8.7 | -23.3 |
| 950 | -12.3 | -23.3 |
| 1000 | -8.6 | -27.1 |
| 1500 | -23.5 | -51.6 |
| 2000 | -27.2 | -58.7 |
| 2500 | -8.7 | -43.1 |
| 3000 | 1.4 | -18.8 |
| 3500 | 7.9 | -3.3 |
| 3640 | 5.9 | -3.3 |

RES-STACS27-87 PEGASUS 13 STN 17
R/V RESEARCHER JDAY 78 TIME 1241Z
Latitude 26.596 N Longitude 076.638 W



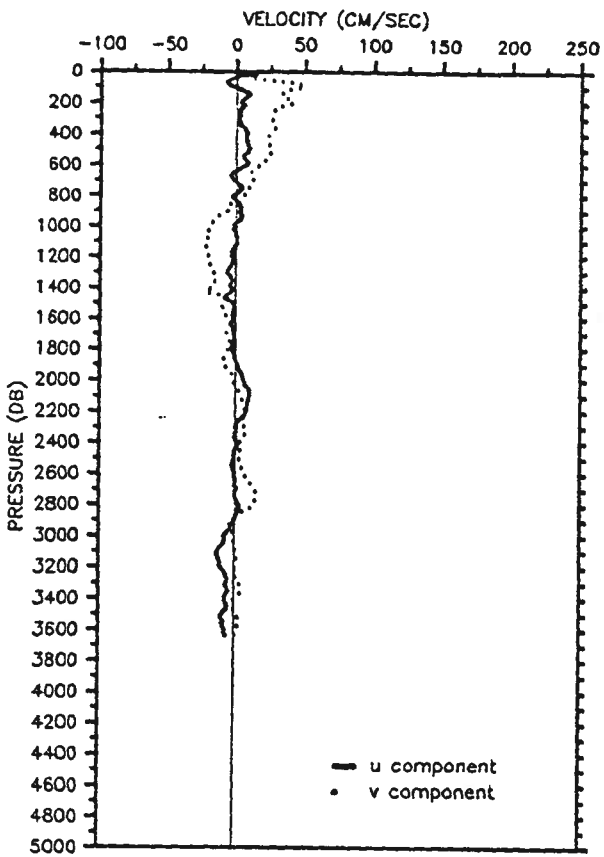

| Prs | U | V |
|---|---|---|
| 20 | -30.3 | 47.0 |
| 30 | -33.4 | 42.8 |
| 40 | -28.2 | 36.1 |
| 50 | -24.1 | 34.4 |
| 60 | -24.1 | 34.5 |
| 70 | -23.9 | 34.6 |
| 80 | -23.9 | 35.1 |
| 90 | -23.6 | 35.8 |
| 100 | -23.5 | 36.1 |
| 110 | -23.7 | 36.2 |
| 120 | -23.9 | 35.9 |
| 130 | -24.6 | 35.2 |
| 140 | -26.2 | 34.9 |
| 150 | -28.2 | 36.1 |
| 160 | -29.0 | 38.0 |
| 170 | -28.3 | 39.5 |
| 180 | -27.3 | 38.8 |
| 190 | -26.3 | 38.0 |
| 200 | -24.8 | 36.2 |
| 250 | -23.7 | 26.4 |
| 300 | -19.9 | 14.8 |
| 350 | -19.5 | 10.7 |
| 400 | -18.0 | 10.1 |
| 450 | -22.6 | 8.7 |
| 500 | -21.5 | 10.1 |
| 550 | -16.4 | 12.9 |
| 600 | -12.2 | 13.5 |
| 650 | -5.0 | 14.0 |
| 700 | 0.3 | 7.0 |
| 750 | -2.9 | -1.4 |
| 800 | -0.6 | -1.7 |
| 850 | 5.9 | 0.2 |
| 900 | 2.0 | -1.3 |
| 950 | 0.4 | -11.1 |
| 1000 | 4.3 | -17.0 |
| 1500 | 3.2 | -32.5 |
| 2000 | 3.6 | -14.7 |
| 2500 | -22.4 | -18.2 |
| 3000 | -12.0 | -21.4 |
| 3500 | 4.8 | -6.0 |
| 3570 | 4.3 | -1.8 |

RES-STACS27-87 PEGASUS 15 STN 19
R/V RESEARCHER JDAY 78 TIME 2326Z
Latitude 26.559 N Longitude 076.840 W



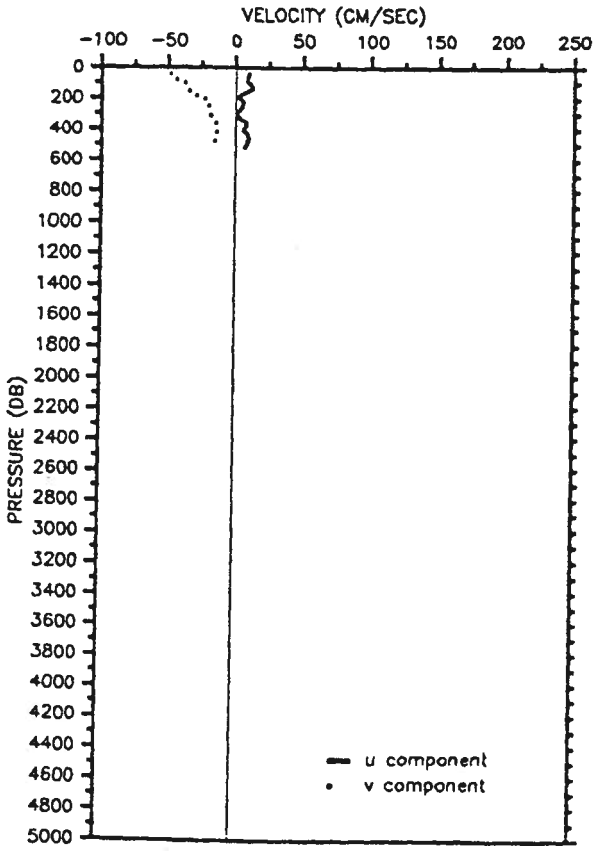

| Prs | U | V |
|---|---|---|
| 30 | 28.9 | 48.2 |
| 40 | 23.7 | 42.7 |
| 50 | 22.8 | 41.4 |
| 60 | 20.0 | 48.3 |
| 70 | 14.9 | 45.8 |
| 80 | 10.1 | 45.7 |
| 90 | 6.3 | 45.7 |
| 100 | 3.0 | 45.9 |
| 110 | -0.2 | 46.2 |
| 120 | -1.9 | 44.9 |
| 130 | -1.4 | 43.6 |
| 140 | 0.2 | 46.0 |
| 150 | 0.7 | 49.3 |
| 160 | 0.8 | 50.0 |
| 170 | 1.9 | 50.8 |
| 180 | 3.2 | 51.3 |
| 190 | 4.3 | 52.1 |
| 200 | 5.4 | 53.3 |
| 250 | 15.0 | 54.6 |
| 300 | 22.0 | 53.1 |
| 350 | 21.2 | 56.9 |
| 400 | 16.6 | 58.1 |
| 450 | 18.2 | 59.5 |
| 500 | 17.0 | 60.6 |
| 550 | 19.7 | 53.2 |
| 600 | 18.5 | 53.0 |
| 650 | 14.3 | 53.1 |
| 700 | -0.7 | 1.5 |
| 750 | -2.6 | 0.7 |
| 800 | -4.3 | -1.3 |
| 850 | -5.2 | -10.1 |
| 900 | -3.7 | -11.7 |
| 950 | -1.0 | -9.2 |
| 1000 | 0.3 | -3.0 |
| 1390 | -15.6 | -18.4 |

RES-STACS27-87 PEGASUS 16 STN 18
R/V RESEARCHER JDAY 79 TIME 0501Z
Latitude 26.537 N Longitude 076.734 W



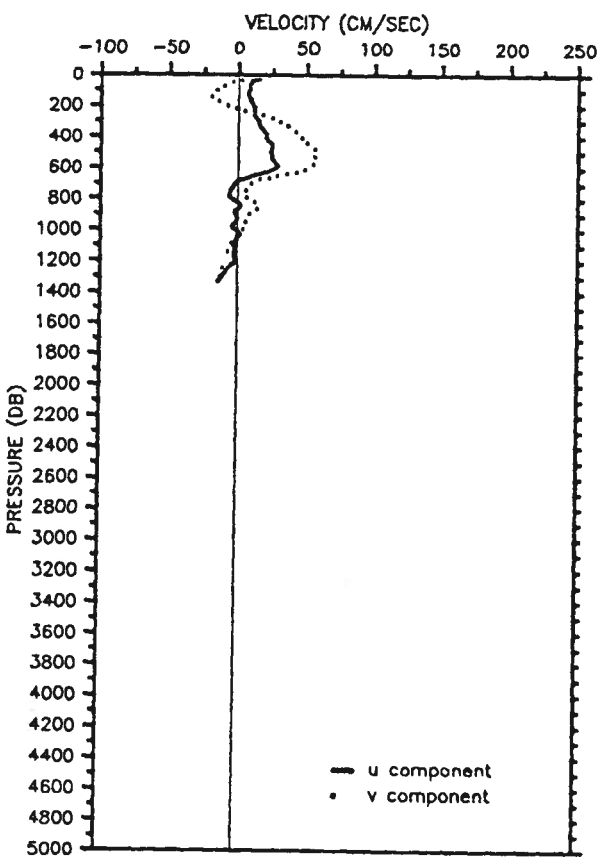

| Prs | U | V |
|---|---|---|
| 20 | 14.7 | 9.0 |
| 30 | 2.2 | 8.1 |
| 40 | -1.0 | 10.7 |
| 50 | -4.1 | 20.7 |
| 60 | -6.4 | 31.7 |
| 70 | -7.3 | 41.1 |
| 80 | -6.8 | 47.6 |
| 90 | -5.1 | 49.8 |
| 100 | -2.2 | 46.7 |
| 110 | 1.2 | 41.1 |
| 120 | 3.7 | 38.6 |
| 130 | 5.8 | 36.9 |
| 140 | 9.0 | 32.9 |
| 150 | 9.4 | 33.2 |
| 160 | 8.2 | 35.4 |
| 170 | 6.6 | 36.9 |
| 180 | 4.9 | 38.6 |
| 190 | 3.9 | 40.5 |
| 200 | 3.5 | 41.5 |
| 250 | 2.6 | 28.2 |
| 300 | 1.8 | 25.7 |
| 350 | 3.7 | 28.7 |
| 400 | 7.7 | 26.0 |
| 450 | 8.0 | 23.7 |
| 500 | 9.5 | 24.2 |
| 550 | 5.3 | 24.4 |
| 600 | 7.6 | 17.8 |
| 650 | -2.3 | 11.0 |
| 700 | -1.5 | 11.8 |
| 750 | 4.1 | 9.3 |
| 800 | -2.1 | 4.2 |
| 850 | 2.0 | -4.5 |
| 900 | 3.1 | -6.4 |
| 950 | 3.5 | -15.1 |
| 1000 | -1.7 | -19.6 |
| 1500 | -1.8 | -9.6 |
| 2000 | 5.9 | -2.1 |
| 2500 | -1.2 | 3.3 |
| 3000 | -7.4 | -1.6 |
| 3500 | -8.9 | 1.0 |
| 3640 | -6.5 | 0.2 |

RES-STACS27-87 PEGASUS 67 STN 34
R/V RESEARCHER JDAY 85 TIME 1822Z
Latitude 26.503 N Longitude 076.153 W



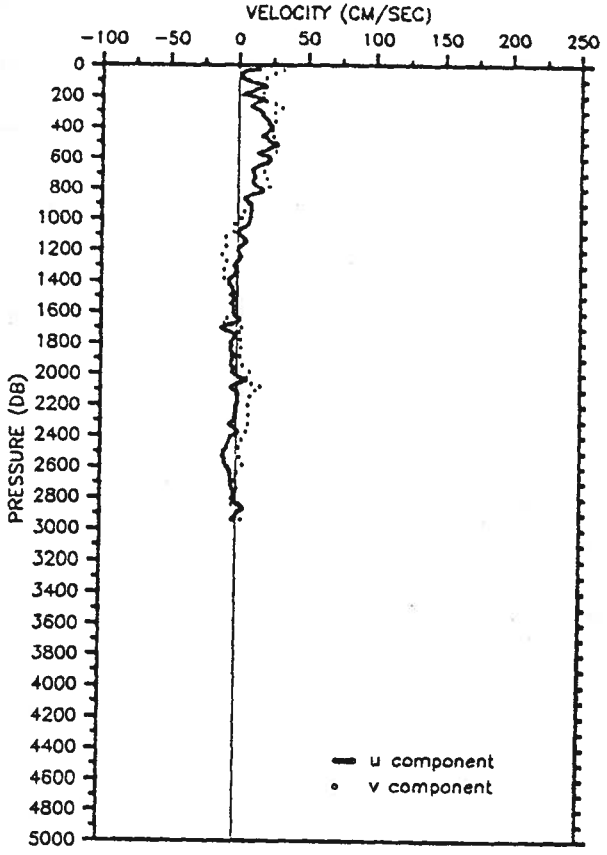

| Prs | U | V |
|---|---|---|
| 40 | 9.6 | -48.9 |
| 50 | 9.3 | -47.9 |
| 60 | 8.8 | -47.2 |
| 70 | 8.6 | -45.7 |
| 80 | 8.6 | -43.4 |
| 90 | 8.9 | -40.6 |
| 100 | 9.6 | -37.8 |
| 110 | 10.9 | -35.9 |
| 120 | 11.5 | -35.1 |
| 130 | 12.0 | -34.9 |
| 140 | 12.0 | -35.1 |
| 150 | 11.0 | -34.8 |
| 160 | 9.0 | -33.9 |
| 170 | 6.1 | -32.0 |
| 180 | 4.0 | -29.3 |
| 190 | 2.7 | -26.7 |
| 200 | 2.7 | -24.3 |
| 250 | 5.2 | -19.9 |
| 300 | 0.9 | -19.3 |
| 350 | 6.5 | -15.2 |
| 400 | 6.7 | -13.9 |
| 450 | 9.4 | -15.1 |
| 500 | 8.2 | -14.4 |
| 520 | 7.2 | -13.2 |

RES-STACS27-87 PEGASUS 69 STN 19
R/V RESEARCHER JDAY 87 TIME 0511Z
Latitude 26.556 N Longitude 076.842 W



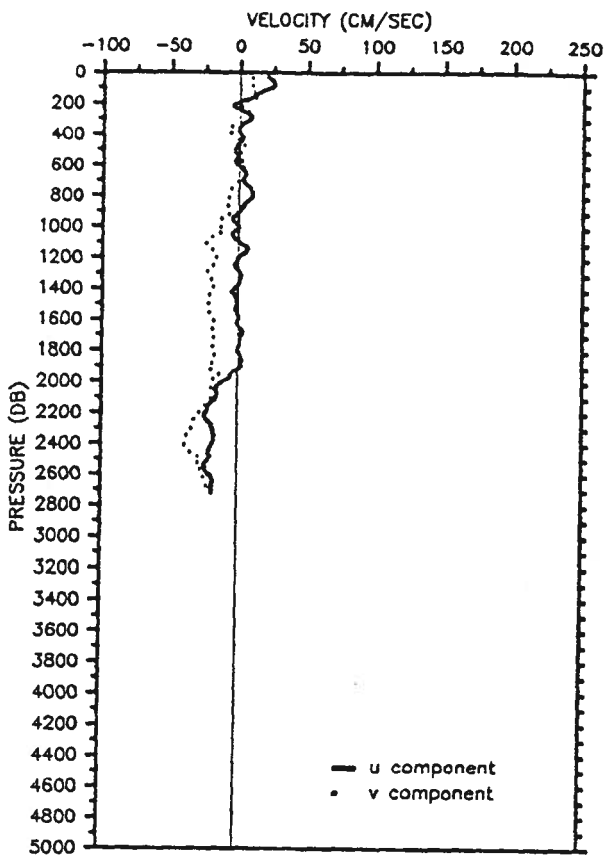

| Prs | U | V |
|---|---|---|
| 30 | 15.5 | 9.6 |
| 40 | 11.8 | 0.0 |
| 50 | 10.0 | -5.1 |
| 60 | 8.4 | -8.0 |
| 70 | 8.1 | -10.8 |
| 80 | 8.3 | -12.8 |
| 90 | 8.2 | -14.6 |
| 100 | 7.7 | -16.3 |
| 110 | 7.2 | -18.0 |
| 120 | 6.8 | -19.7 |
| 130 | 6.9 | -20.3 |
| 140 | 7.4 | -19.7 |
| 150 | 7.9 | -18.5 |
| 160 | 8.5 | -16.3 |
| 170 | 9.0 | -13.6 |
| 180 | 9.7 | -11.2 |
| 190 | 10.3 | -9.4 |
| 200 | 11.1 | -7.0 |
| 250 | 11.7 | 14.9 |
| 300 | 15.0 | 30.0 |
| 350 | 17.7 | 39.9 |
| 400 | 20.4 | 46.3 |
| 450 | 24.4 | 52.4 |
| 500 | 23.7 | 56.9 |
| 550 | 25.4 | 56.0 |
| 600 | 27.7 | 50.5 |
| 650 | 12.2 | 27.9 |
| 700 | -2.1 | 9.4 |
| 750 | -5.8 | 5.0 |
| 800 | -4.4 | 8.6 |
| 850 | 1.7 | 15.0 |
| 900 | -2.1 | 7.9 |
| 950 | -1.1 | 5.6 |
| 1000 | -2.0 | 3.2 |
| 1330 | -14.2 | -14.6 |

RES-STACS27-87 PEGASUS 70 STN 18
R/V RESEARCHER JDAY 87 TIME 0722Z
Latitude 26.531 N Longitude 076.742 W



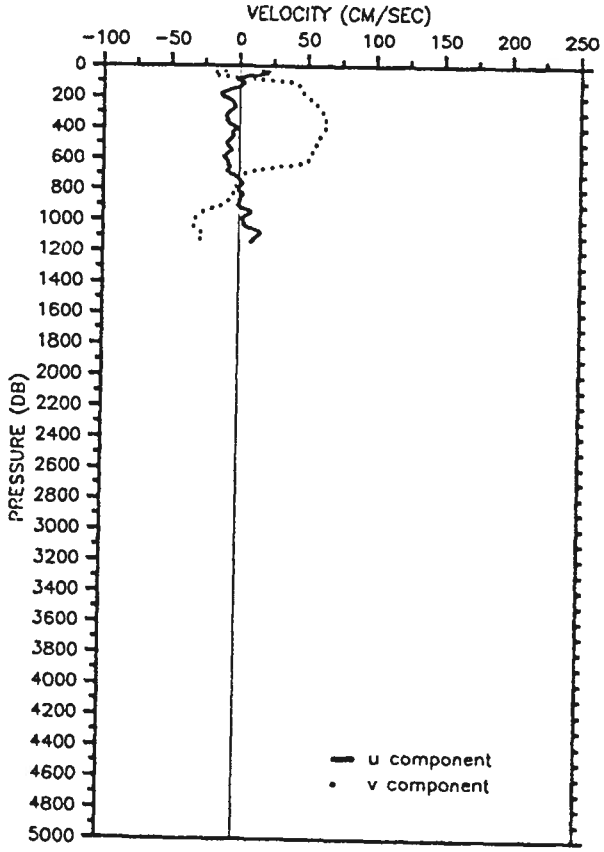

| Prs | U | V |
|---|---|---|
| 30 | 14.4 | 31.6 |
| 40 | 4.5 | 28.0 |
| 50 | 2.3 | 26.2 |
| 60 | 1.8 | 24.9 |
| 70 | 1.5 | 23.3 |
| 80 | 2.3 | 21.0 |
| 90 | 4.0 | 18.2 |
| 100 | 6.5 | 15.0 |
| 110 | 8.8 | 13.3 |
| 120 | 12.4 | 12.8 |
| 130 | 16.1 | 12.9 |
| 140 | 19.2 | 11.1 |
| 150 | 16.7 | 12.3 |
| 160 | 12.7 | 14.7 |
| 170 | 9.1 | 16.5 |
| 180 | 5.1 | 17.6 |
| 190 | 3.2 | 19.3 |
| 200 | 7.8 | 20.6 |
| 250 | 11.8 | 28.4 |
| 300 | 16.2 | 26.5 |
| 350 | 20.2 | 26.4 |
| 400 | 23.8 | 23.9 |
| 450 | 17.6 | 24.7 |
| 500 | 23.5 | 24.6 |
| 550 | 19.7 | 25.6 |
| 600 | 22.3 | 20.4 |
| 650 | 15.1 | 21.4 |
| 700 | 11.1 | 18.3 |
| 750 | 10.9 | 22.4 |
| 800 | 16.5 | 20.7 |
| 850 | 7.9 | 4.5 |
| 900 | 9.3 | 7.1 |
| 950 | 9.5 | 4.9 |
| 1000 | 8.5 | 1.2 |
| 1500 | -3.3 | -5.7 |
| 2000 | -2.2 | 10.1 |
| 2500 | -9.7 | 1.5 |
| 2940 | -2.8 | 3.7 |

RES-STACS27-87 PEGASUS 72 STN 17
R/V RESEARCHER JDAY 88 TIME 1918Z
Latitude 26.592 N Longitude 076.626 W



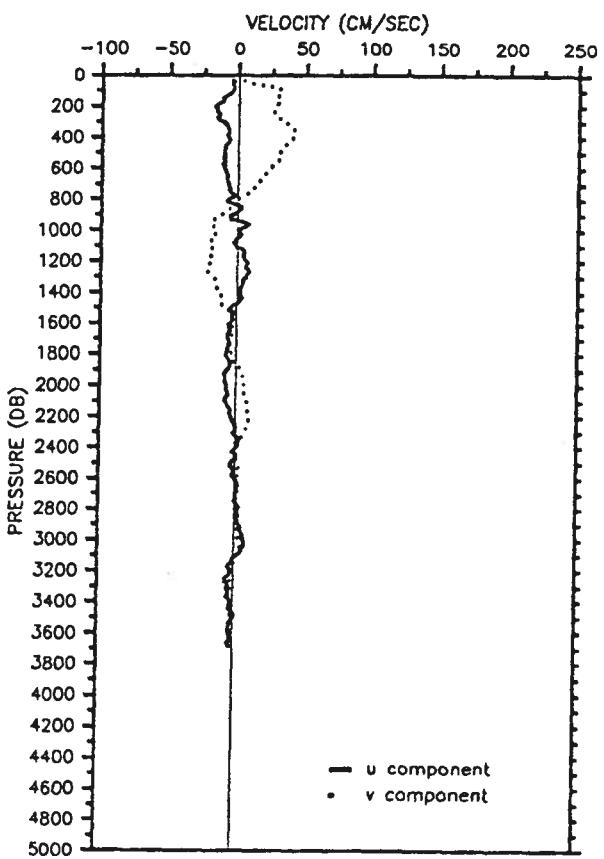

| Prs | U | V |
|---|---|---|
| 30 | 20.9 | 9.1 |
| 40 | 22.3 | 8.1 |
| 50 | 24.4 | 7.2 |
| 60 | 25.1 | 7.7 |
| 70 | 25.2 | 8.6 |
| 80 | 25.2 | 8.9 |
| 90 | 23.9 | 9.1 |
| 100 | 22.1 | 8.1 |
| 110 | 19.4 | 7.7 |
| 120 | 17.1 | 8.2 |
| 130 | 14.9 | 10.9 |
| 140 | 12.8 | 11.3 |
| 150 | 11.5 | 13.1 |
| 160 | 9.4 | 13.1 |
| 170 | 8.6 | 10.3 |
| 180 | 3.1 | 6.1 |
| 190 | -0.1 | 3.1 |
| 200 | -2.4 | 2.4 |
| 250 | 2.0 | 6.4 |
| 300 | 7.8 | 5.7 |
| 350 | 0.3 | -6.6 |
| 400 | 0.7 | -5.4 |
| 450 | 0.1 | 1.0 |
| 500 | -2.6 | 2.0 |
| 550 | -2.0 | 3.0 |
| 600 | -1.1 | 0.4 |
| 650 | 4.5 | 3.8 |
| 700 | 3.3 | -0.1 |
| 750 | 8.0 | -5.0 |
| 800 | 10.1 | -7.2 |
| 850 | 4.7 | -8.3 |
| 900 | 0.5 | -6.4 |
| 950 | -4.2 | -13.0 |
| 1000 | 0.3 | -12.8 |
| 1500 | -1.3 | -21.9 |
| 2000 | -11.0 | -18.7 |
| 2500 | -21.5 | -26.3 |
| 2720 | -18.4 | -22.5 |

RES-STACS28-87 PEGASUS 2 STN 19
R/V RESEARCHER JDAY 246 TIME 0614Z
Latitude 26.546 N Longitude 076.843 W



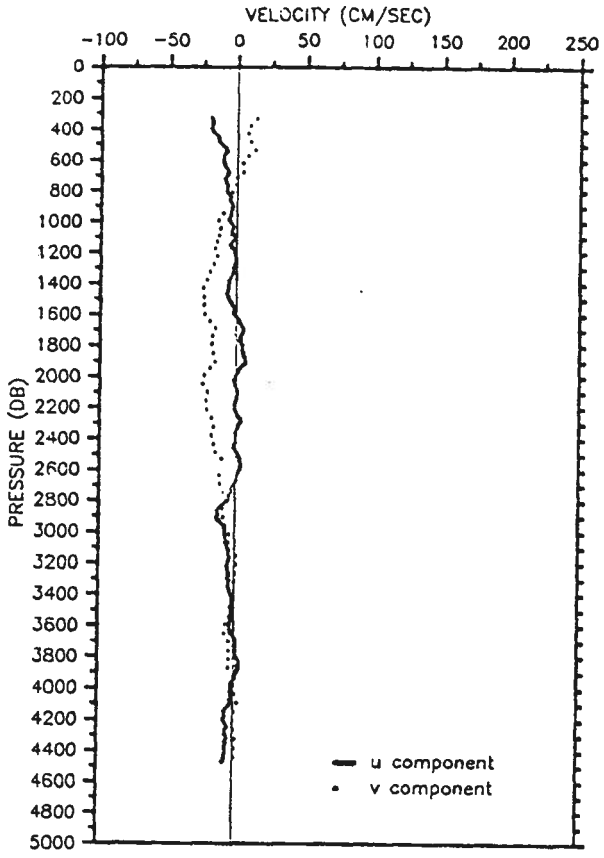

| Prs | U | V |
|---|---|---|
| 30 | 15.9 | -11.0 |
| 40 | 20.7 | -17.7 |
| 50 | 20.0 | -20.6 |
| 60 | 14.1 | -17.1 |
| 70 | 8.0 | -6.8 |
| 80 | 0.2 | 7.2 |
| 90 | -1.6 | 22.8 |
| 100 | 0.9 | 34.3 |
| 110 | 2.9 | 41.0 |
| 120 | 3.0 | 43.1 |
| 130 | 1.3 | 43.4 |
| 140 | -1.5 | 43.7 |
| 150 | -4.4 | 44.9 |
| 160 | -8.0 | 45.4 |
| 170 | -11.2 | 46.4 |
| 180 | -13.0 | 48.0 |
| 190 | -13.2 | 48.8 |
| 200 | -11.8 | 50.1 |
| 250 | -4.2 | 56.2 |
| 300 | -7.9 | 60.3 |
| 350 | -9.3 | 62.6 |
| 400 | -2.9 | 62.2 |
| 450 | -4.7 | 59.2 |
| 500 | -8.8 | 56.6 |
| 550 | -6.2 | 53.4 |
| 600 | -10.5 | 51.2 |
| 650 | -7.7 | 28.5 |
| 700 | -5.8 | 3.8 |
| 750 | 1.1 | -1.4 |
| 800 | -0.7 | -5.3 |
| 850 | 1.7 | -6.7 |
| 900 | -1.0 | -13.3 |
| 950 | 8.4 | -26.4 |
| 1000 | 2.4 | -32.9 |
| 1140 | 8.6 | -28.6 |

RES-STACS28-87 PEGASUS 3 STN 18
R/V RESEARCHER JDAY 246 TIME 0954Z
Latitude 26.533 N Longitude 076.740 W



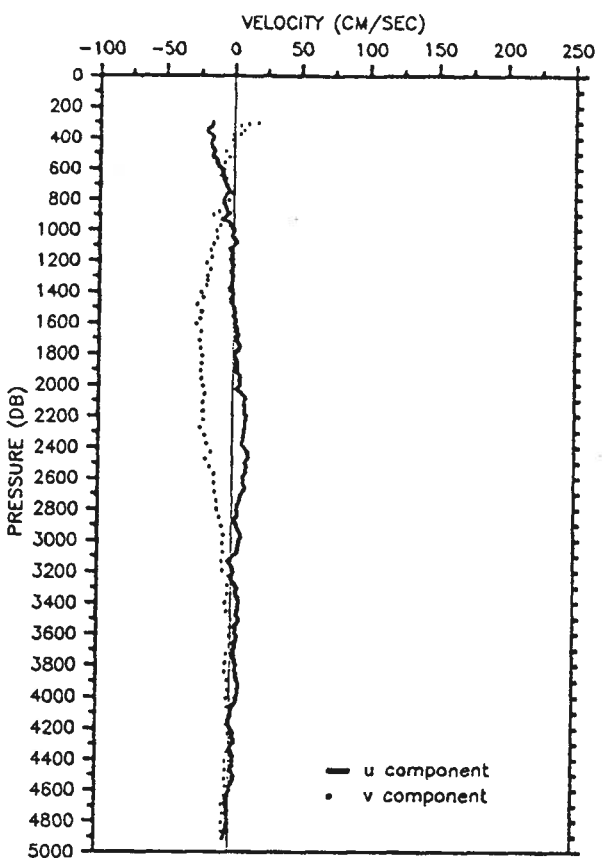

| Prs | U | V |
|---|---|---|
| 30 | -4.6 | 3.8 |
| 40 | -3.8 | 6.2 |
| 50 | -4.8 | 11.2 |
| 60 | -4.7 | 17.0 |
| 70 | -3.9 | 23.0 |
| 80 | -4.1 | 28.0 |
| 90 | -4.0 | 30.8 |
| 100 | -4.5 | 31.8 |
| 110 | -5.5 | 31.4 |
| 120 | -6.3 | 30.4 |
| 130 | -8.1 | 29.3 |
| 140 | -10.3 | 28.2 |
| 150 | -11.7 | 27.7 |
| 160 | -11.8 | 27.4 |
| 170 | -12.0 | 27.5 |
| 180 | -13.6 | 28.3 |
| 190 | -15.5 | 28.8 |
| 200 | -16.3 | 28.7 |
| 250 | -13.6 | 26.4 |
| 300 | -11.0 | 34.2 |
| 350 | -7.5 | 40.8 |
| 400 | -7.4 | 39.9 |
| 450 | -9.3 | 34.2 |
| 500 | -10.2 | 31.2 |
| 550 | -10.1 | 29.5 |
| 600 | -10.0 | 22.8 |
| 650 | -7.8 | 18.5 |
| 700 | -7.2 | 12.8 |
| 750 | -5.4 | 8.5 |
| 800 | -6.2 | -0.1 |
| 850 | 2.2 | -3.3 |
| 900 | -2.8 | -12.9 |
| 950 | 4.2 | -19.0 |
| 1000 | 1.8 | -16.2 |
| 1500 | -4.0 | -6.8 |
| 2000 | -7.4 | 5.6 |
| 2500 | -2.8 | 2.1 |
| 3000 | 6.1 | 3.1 |
| 3500 | 0.1 | -2.6 |
| 3690 | -2.2 | -3.6 |

RES-STACS28-87 PEGASUS 4 STN 17
R/V RESEARCHER JDAY 246 TIME 1531Z
Latitude 26.576 N Longitude 076.627 W



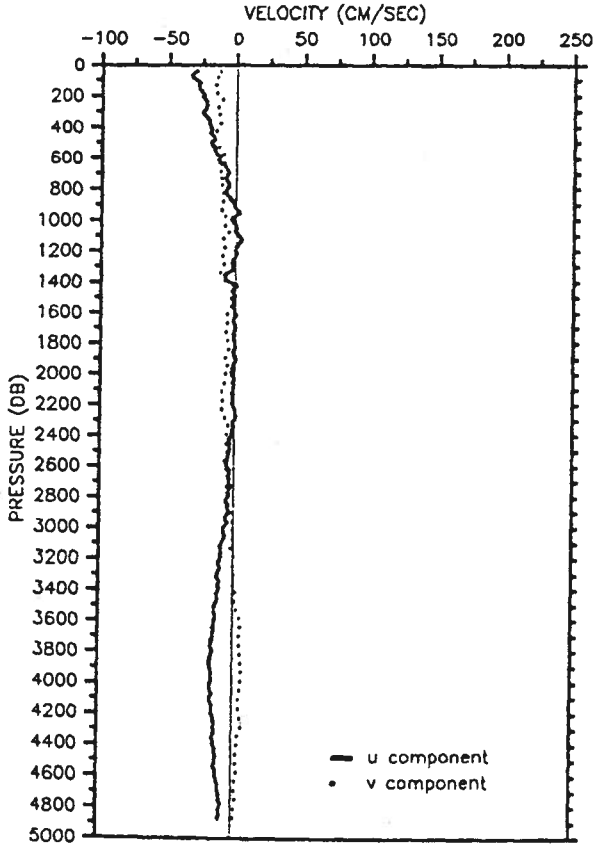

| Prs | U | V |
|---|---|---|
| 350 | -18.4 | 12.3 |
| 400 | -19.0 | 9.8 |
| 450 | -14.5 | 9.0 |
| 500 | -11.6 | 10.7 |
| 550 | -9.0 | 11.0 |
| 600 | -10.1 | 6.5 |
| 650 | -8.1 | 4.5 |
| 700 | -8.7 | -0.8 |
| 750 | -8.0 | -1.8 |
| 800 | -7.7 | -4.3 |
| 850 | -5.4 | -4.1 |
| 900 | -3.5 | -4.2 |
| 950 | -4.9 | -10.1 |
| 1000 | -5.5 | -13.1 |
| 1500 | -6.0 | -24.9 |
| 2000 | -0.7 | -24.4 |
| 2500 | 1.7 | -12.3 |
| 3000 | -7.4 | -3.9 |
| 3500 | -2.3 | -5.1 |
| 4000 | -1.5 | 0.7 |
| 4470 | -7.6 | 0.4 |

RES-STACS28-87 PEGASUS 5 STN 16
R/V RESEARCHER JDAY 246 TIME 2209Z
Latitude 26.541 N Longitude 076.523 W



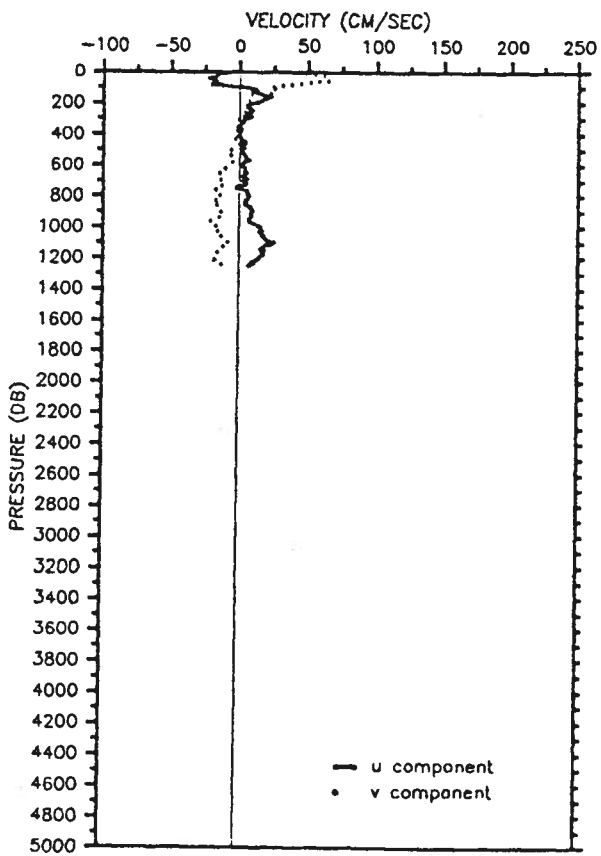

| Prs | U | V |
|---|---|---|
| 300 | -16.2 | 18.0 |
| 350 | -20.4 | 9.2 |
| 400 | -16.3 | -4.2 |
| 450 | -17.4 | -0.2 |
| 500 | -16.0 | -7.2 |
| 550 | -12.5 | -7.7 |
| 600 | -8.8 | -7.6 |
| 650 | -8.2 | -7.3 |
| 700 | -6.7 | -4.1 |
| 750 | -3.8 | -0.7 |
| 800 | -7.4 | -3.2 |
| 850 | -6.5 | -6.3 |
| 900 | -4.7 | -14.8 |
| 950 | -3.5 | -10.1 |
| 1000 | 0.1 | -12.5 |
| 1500 | 0.3 | -24.0 |
| 2000 | 5.1 | -23.0 |
| 2500 | 9.6 | -18.5 |
| 3000 | 5.4 | -7.4 |
| 3500 | 5.3 | 0.2 |
| 4000 | 4.7 | -1.9 |
| 4500 | 3.3 | -3.7 |
| 4910 | -4.0 | -2.8 |

RES-STACS28-87 PEGASUS 7 STN 34
R/V RESEARCHER JDAY 247 TIME 0950Z
Latitude 26.480 N Longitude 076.137 W



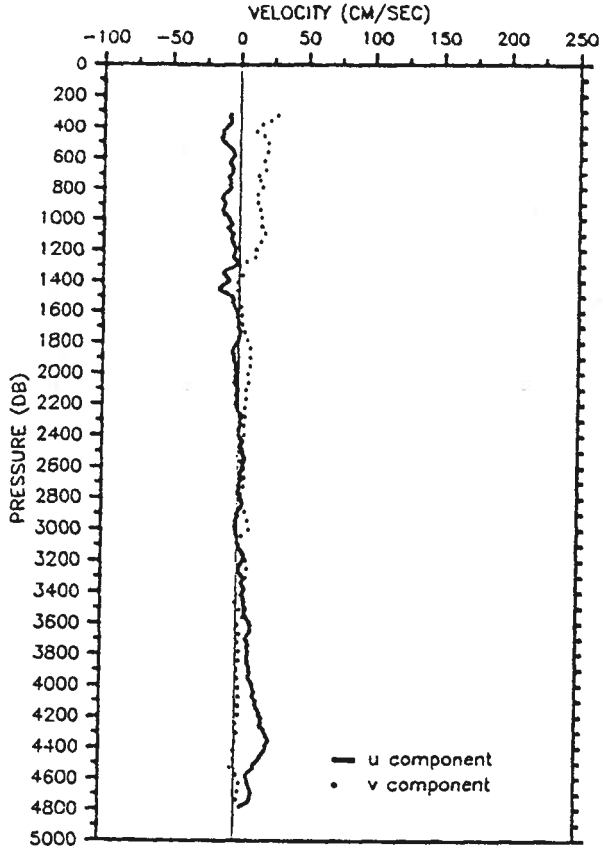

| Prs | U | V |
|---|---|---|
| 40 | -30.2 | -12.7 |
| 50 | -31.6 | -15.8 |
| 60 | -33.0 | -15.5 |
| 70 | -33.4 | -14.6 |
| 80 | -32.6 | -14.5 |
| 90 | -31.0 | -15.1 |
| 100 | -29.6 | -16.0 |
| 110 | -27.9 | -15.1 |
| 120 | -27.6 | -15.2 |
| 130 | -27.9 | -15.7 |
| 140 | -27.9 | -16.2 |
| 150 | -28.1 | -16.3 |
| 160 | -27.6 | -16.4 |
| 170 | -26.4 | -15.6 |
| 180 | -25.7 | -14.8 |
| 190 | -24.8 | -13.3 |
| 200 | -24.5 | -11.6 |
| 250 | -22.8 | -12.1 |
| 300 | -24.5 | -14.3 |
| 350 | -21.1 | -11.8 |
| 400 | -19.4 | -15.0 |
| 450 | -19.2 | -15.0 |
| 500 | -19.1 | -14.9 |
| 550 | -16.3 | -10.1 |
| 600 | -12.8 | -9.2 |
| 650 | -9.5 | -10.1 |
| 700 | -6.1 | -11.1 |
| 750 | -7.3 | -12.8 |
| 800 | -6.9 | -11.9 |
| 850 | -5.8 | -9.0 |
| 900 | -2.3 | -9.5 |
| 950 | 1.9 | -10.7 |
| 1000 | -3.1 | -7.9 |
| 1500 | -0.9 | -3.6 |
| 2000 | -2.2 | -6.9 |
| 2500 | -4.5 | -5.6 |
| 3000 | -7.2 | -1.5 |
| 3500 | -13.3 | 1.5 |
| 4000 | -16.3 | 6.1 |
| 4500 | -12.2 | 3.4 |
| 4870 | -9.1 | 2.2 |

RES-STACS28-87 PEGASUS 8 STN 99
R/V RESEARCHER JDAY 264 TIME 0252Z
Latitude 07.596 N Longitude 052.740 W




| Prs | U | V |
|---|---|---|
| 10 | -10.3 | 48.0 |
| 20 | -15.0 | 59.1 |
| 30 | -17.4 | 65.2 |
| 40 | -22.0 | 65.8 |
| 50 | -19.6 | 65.1 |
| 60 | -17.0 | 55.7 |
| 70 | -16.8 | 45.0 |
| 80 | -19.8 | 35.9 |
| 90 | -7.7 | 23.0 |
| 100 | 4.9 | 21.8 |
| 110 | 10.5 | 27.0 |
| 120 | 12.4 | 26.7 |
| 130 | 9.5 | 24.3 |
| 140 | 15.5 | 16.3 |
| 150 | 18.1 | 7.6 |
| 160 | 22.6 | 8.1 |
| 170 | 20.1 | 8.9 |
| 180 | 17.6 | 7.4 |
| 190 | 15.0 | 5.8 |
| 200 | 12.6 | 6.7 |
| 250 | 9.3 | 3.7 |
| 300 | 7.0 | -1.6 |
| 350 | -0.5 | 2.1 |
| 400 | 0.2 | -2.6 |
| 450 | 3.8 | -0.4 |
| 500 | 0.8 | -6.3 |
| 550 | 4.6 | -4.7 |
| 600 | 2.7 | -7.4 |
| 650 | 5.3 | -14.3 |
| 700 | 2.7 | -14.0 |
| 750 | -2.1 | -18.1 |
| 800 | 7.5 | -12.8 |
| 850 | 4.2 | -14.1 |
| 900 | 9.7 | -12.7 |
| 950 | 7.4 | -19.2 |
| 1000 | 15.4 | -14.7 |
| 1250 | 7.9 | -12.3 |

RES-STACS28-87 PEGASUS 9 STN 37
R/V RESEARCHER JDAY 265 TIME 0440Z
Latitude 08.502 N Longitude 052.155 W

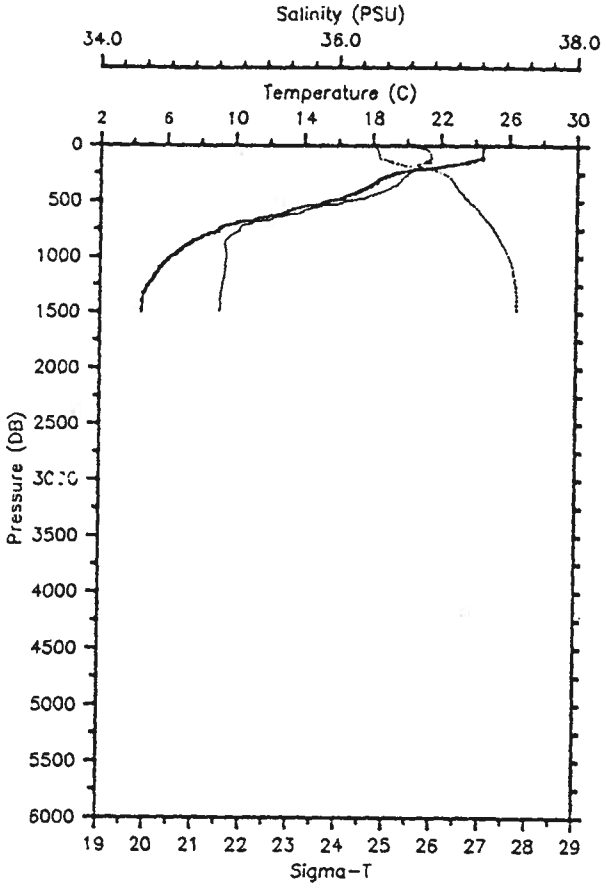



| Prs | U | V |
|---|---|---|
| 350 | -7.7 | 23.4 |
| 400 | -10.5 | 12.8 |
| 450 | -13.2 | 15.8 |
| 500 | -11.8 | 20.8 |
| 550 | -6.5 | 20.1 |
| 600 | -7.0 | 18.5 |
| 650 | -6.9 | 18.2 |
| 700 | -7.3 | 14.5 |
| 750 | -7.6 | 16.3 |
| 800 | -8.0 | 14.2 |
| 850 | -13.2 | 13.1 |
| 900 | -11.5 | 13.5 |
| 950 | -12.2 | 16.6 |
| 1000 | -8.5 | 15.4 |
| 1500 | -5.4 | -0.8 |
| 2000 | -2.3 | 7.0 |
| 2500 | 3.2 | 1.7 |
| 3000 | -1.8 | 7.7 |
| 3500 | 8.4 | 1.1 |
| 4000 | 12.0 | 1.8 |
| 4500 | 14.6 | -2.3 |
| 4780 | 4.6 | 0.0 |

## APPENDIX B: CTD DATA

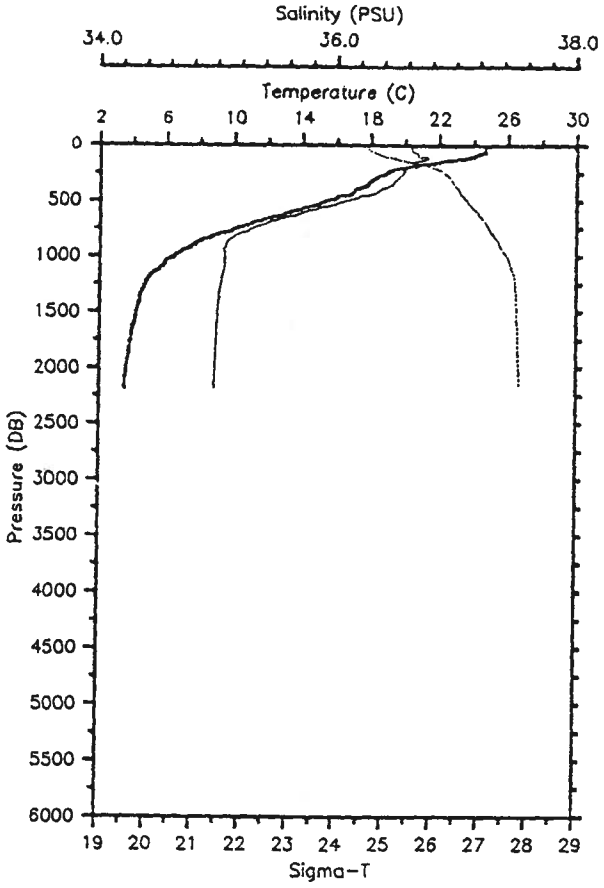
Casts are presented by cruise and increasing cast number. Julian day and time, cruise number and vessel, and position are given at the top of each plot. Temperature, salinity and sigma-t profiles are shown for each cast.

RES-STACS27-87 CTD 1 RESEARCHER
Date 03 12 87 Latitude 24.015 N
Time 1724 Z Longitude 75.370 W



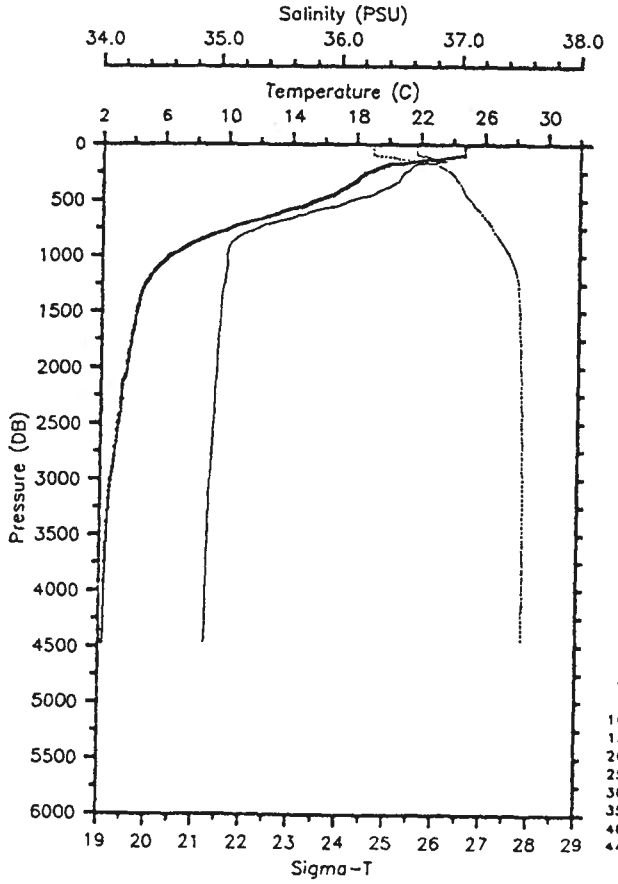

| Prs | Tem | Sal | SigT |
|---|---|---|---|
| 0 | 24.53 | 36.336 | 24.50 |
| 10 | 24.53 | 36.554 | 24.66 |
| 20 | 24.48 | 36.651 | 24.75 |
| 30 | 24.48 | 36.701 | 24.79 |
| 40 | 24.48 | 36.734 | 24.81 |
| 50 | 24.48 | 36.751 | 24.82 |
| 60 | 24.48 | 36.762 | 24.83 |
| 70 | 24.48 | 36.770 | 24.84 |
| 80 | 24.47 | 36.774 | 24.85 |
| 90 | 24.47 | 36.777 | 24.85 |
| 100 | 24.47 | 36.778 | 24.85 |
| 110 | 24.46 | 36.779 | 24.85 |
| 120 | 24.43 | 36.778 | 24.86 |
| 130 | 23.95 | 36.760 | 24.98 |
| 140 | 23.62 | 36.716 | 25.06 |
| 150 | 23.57 | 36.758 | 25.10 |
| 160 | 23.20 | 36.708 | 25.17 |
| 170 | 22.75 | 36.654 | 25.26 |
| 180 | 22.33 | 36.652 | 25.38 |
| 190 | 21.99 | 36.693 | 25.51 |
| 200 | 21.60 | 36.686 | 25.61 |
| 250 | 19.27 | 36.596 | 26.17 |
| 300 | 18.31 | 36.522 | 26.36 |
| 350 | 17.92 | 36.489 | 26.44 |
| 400 | 17.27 | 36.392 | 26.52 |
| 450 | 16.38 | 36.248 | 26.62 |
| 500 | 15.18 | 36.048 | 26.74 |
| 550 | 13.78 | 35.826 | 26.87 |
| 600 | 12.87 | 35.685 | 26.95 |
| 650 | 11.35 | 35.466 | 27.07 |
| 700 | 9.93 | 35.271 | 27.18 |
| 750 | 9.04 | 35.178 | 27.25 |
| 800 | 8.39 | 35.122 | 27.31 |
| 850 | 7.53 | 35.081 | 27.39 |
| 900 | 7.06 | 35.059 | 27.46 |
| 950 | 6.64 | 35.062 | 27.52 |
| 1000 | 6.16 | 35.066 | 27.58 |
| 1490 | 4.48 | 35.016 | 27.75 |

RES-STACS27-87 CTD 2 RESEARCHER
Date 03 13 87 Latitude 22.420 N
Time 1159 Z Longitude 72.754 W



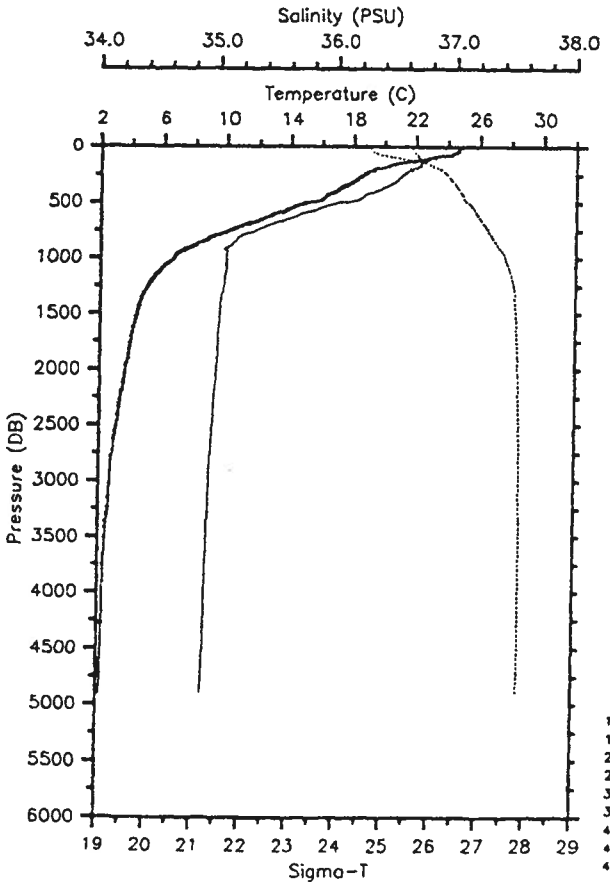

| Prs | Tem | Sal | SigT |
|---|---|---|---|
| 0 | 24.68 | 36.627 | 24.67 |
| 10 | 24.69 | 36.626 | 24.67 |
| 20 | 24.69 | 36.626 | 24.67 |
| 30 | 24.69 | 36.626 | 24.67 |
| 40 | 24.69 | 36.627 | 24.67 |
| 50 | 24.69 | 36.627 | 24.67 |
| 60 | 24.59 | 36.643 | 24.71 |
| 70 | 24.40 | 36.666 | 24.78 |
| 80 | 24.24 | 36.675 | 24.84 |
| 90 | 24.08 | 36.678 | 24.89 |
| 100 | 23.82 | 36.682 | 24.97 |
| 110 | 23.67 | 36.746 | 25.06 |
| 120 | 23.34 | 36.759 | 25.17 |
| 130 | 22.77 | 36.714 | 25.30 |
| 140 | 22.46 | 36.727 | 25.40 |
| 150 | 21.85 | 36.613 | 25.49 |
| 160 | 21.56 | 36.666 | 25.61 |
| 170 | 20.97 | 36.665 | 25.77 |
| 180 | 20.68 | 36.660 | 25.85 |
| 190 | 20.30 | 36.630 | 25.93 |
| 200 | 19.85 | 36.596 | 26.02 |
| 250 | 18.81 | 36.556 | 26.26 |
| 300 | 18.18 | 36.506 | 26.38 |
| 350 | 17.79 | 36.473 | 26.45 |
| 400 | 17.06 | 36.358 | 26.54 |
| 450 | 16.31 | 36.236 | 26.63 |
| 500 | 15.29 | 36.068 | 26.73 |
| 550 | 14.33 | 35.814 | 26.82 |
| 600 | 13.19 | 35.740 | 26.93 |
| 650 | 12.04 | 35.570 | 27.03 |
| 700 | 11.00 | 35.425 | 27.11 |
| 750 | 9.96 | 35.290 | 27.19 |
| 800 | 9.02 | 35.187 | 27.26 |
| 850 | 8.09 | 35.101 | 27.34 |
| 900 | 7.47 | 35.070 | 27.41 |
| 950 | 6.92 | 35.056 | 27.47 |
| 1000 | 6.43 | 35.065 | 27.55 |
| 1500 | 4.22 | 35.003 | 27.77 |
| 2000 | 3.63 | 34.983 | 27.81 |
| 2182 | 3.53 | 34.979 | 27.82 |

RES-STACS27-87 CTD 3 RESEARCHER
Date 03 13 87 Latitude 22.569 N
Time 1459 Z Longitude 72.691 W



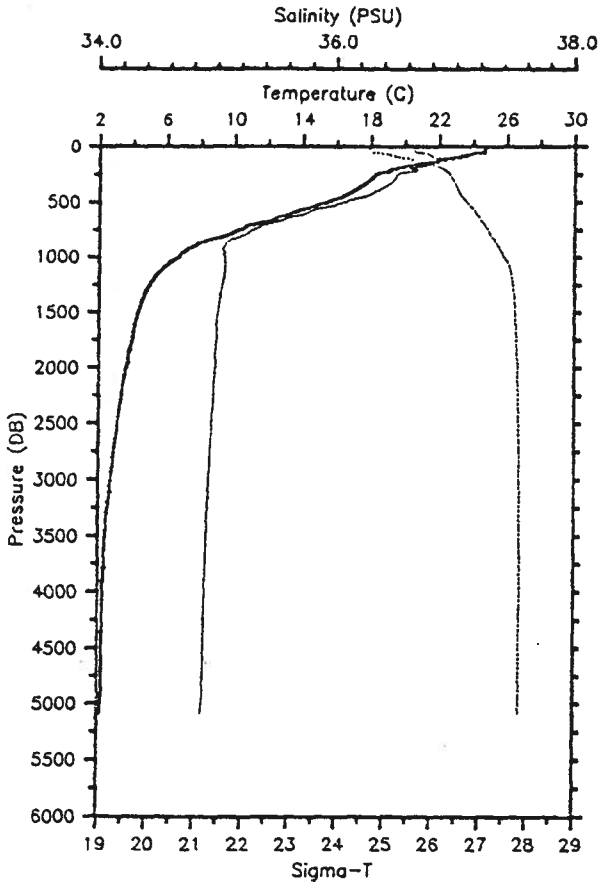

| Prs | Tem | Sal | SigT |
|---|---|---|---|
| 0 | 24.72 | 36.628 | 24.66 |
| 10 | 24.73 | 36.626 | 24.66 |
| 20 | 24.72 | 36.625 | 24.66 |
| 30 | 24.70 | 36.625 | 24.66 |
| 40 | 24.69 | 36.626 | 24.67 |
| 50 | 24.69 | 36.627 | 24.67 |
| 60 | 24.69 | 36.627 | 24.67 |
| 70 | 24.69 | 36.628 | 24.67 |
| 80 | 24.69 | 36.628 | 24.67 |
| 90 | 24.69 | 36.627 | 24.67 |
| 100 | 24.48 | 36.656 | 24.75 |
| 110 | 24.00 | 36.722 | 24.95 |
| 120 | 23.41 | 36.764 | 25.15 |
| 130 | 22.86 | 36.795 | 25.34 |
| 140 | 22.18 | 36.761 | 25.51 |
| 150 | 21.90 | 36.880 | 25.68 |
| 160 | 21.27 | 36.802 | 25.79 |
| 170 | 20.68 | 36.724 | 25.90 |
| 180 | 20.01 | 36.625 | 26.00 |
| 190 | 19.75 | 36.600 | 26.05 |
| 200 | 19.69 | 36.598 | 26.07 |
| 250 | 18.59 | 36.533 | 26.30 |
| 300 | 18.16 | 36.501 | 26.38 |
| 350 | 17.72 | 36.459 | 26.46 |
| 400 | 17.08 | 36.363 | 26.54 |
| 450 | 16.51 | 36.267 | 26.60 |
| 500 | 15.48 | 36.094 | 26.71 |
| 550 | 14.69 | 35.968 | 26.79 |
| 600 | 13.39 | 35.763 | 26.90 |
| 650 | 12.41 | 35.625 | 26.99 |
| 700 | 11.18 | 35.451 | 27.10 |
| 750 | 10.21 | 35.322 | 27.17 |
| 800 | 9.24 | 35.212 | 27.25 |
| 850 | 8.36 | 35.129 | 27.32 |
| 900 | 7.56 | 35.079 | 27.40 |
| 950 | 7.03 | 35.063 | 27.46 |
| 1000 | 6.35 | 35.056 | 27.55 |
| 1500 | 4.25 | 35.009 | 27.77 |
| 2000 | 3.69 | 34.982 | 27.80 |
| 2500 | 3.16 | 34.956 | 27.84 |
| 3000 | 2.69 | 34.928 | 27.86 |
| 3500 | 2.46 | 34.914 | 27.86 |
| 4000 | 2.34 | 34.904 | 27.87 |
| 4464 | 2.29 | 34.895 | 27.86 |

RES-STACS27-87 CTD 4 RESEARCHER
Date 03 13 87 Latitude 22.832 N
Time 1910 Z Longitude 72.615 W



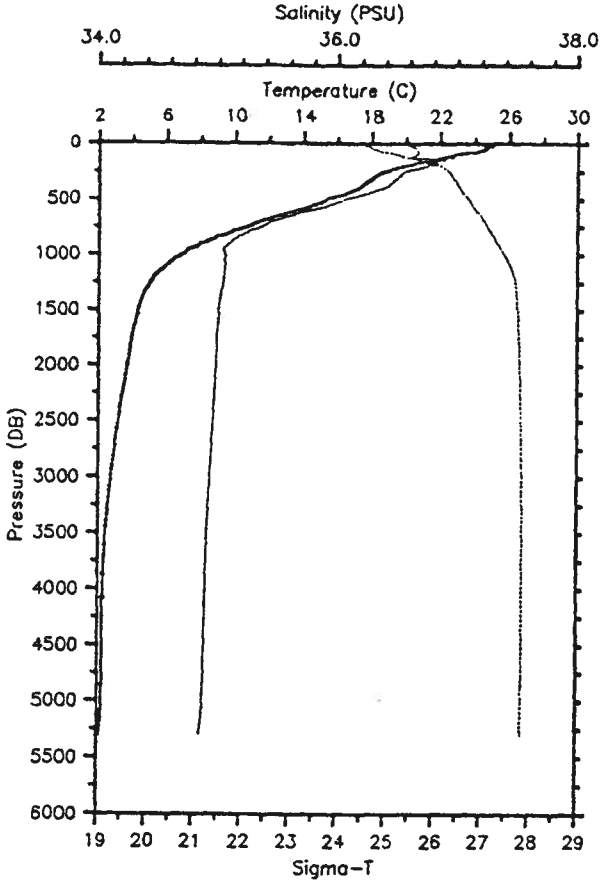

| Prs | Tem | Sal | SigT |
|---|---|---|---|
| 0 | 24.83 | 36.629 | 24.63 |
| 10 | 24.68 | 36.629 | 24.67 |
| 20 | 24.66 | 36.629 | 24.68 |
| 30 | 24.66 | 36.630 | 24.68 |
| 40 | 24.61 | 36.635 | 24.70 |
| 50 | 24.49 | 36.653 | 24.75 |
| 60 | 24.29 | 36.645 | 24.80 |
| 70 | 24.18 | 36.675 | 24.86 |
| 80 | 23.66 | 36.671 | 25.01 |
| 90 | 23.20 | 36.661 | 25.14 |
| 100 | 22.88 | 36.686 | 25.25 |
| 110 | 22.72 | 36.757 | 25.35 |
| 120 | 21.98 | 36.721 | 25.53 |
| 130 | 21.63 | 36.749 | 25.65 |
| 140 | 21.20 | 36.721 | 25.75 |
| 150 | 20.74 | 36.697 | 25.86 |
| 160 | 20.47 | 36.697 | 25.93 |
| 170 | 20.25 | 36.689 | 25.98 |
| 180 | 20.05 | 36.687 | 26.04 |
| 190 | 19.78 | 36.686 | 26.09 |
| 200 | 19.37 | 36.612 | 26.16 |
| 250 | 18.85 | 36.563 | 26.31 |
| 300 | 18.10 | 36.510 | 26.41 |
| 350 | 17.45 | 36.425 | 26.50 |
| 400 | 16.85 | 36.327 | 26.57 |
| 450 | 16.17 | 36.212 | 26.64 |
| 500 | 15.29 | 36.063 | 26.73 |
| 550 | 13.98 | 35.853 | 26.85 |
| 600 | 13.04 | 35.704 | 26.93 |
| 650 | 12.16 | 35.571 | 27.00 |
| 700 | 11.16 | 35.435 | 27.09 |
| 750 | 10.20 | 35.312 | 27.16 |
| 800 | 9.17 | 35.189 | 27.24 |
| 850 | 8.45 | 35.128 | 27.31 |
| 900 | 7.72 | 35.086 | 27.38 |
| 950 | 7.05 | 35.064 | 27.46 |
| 1000 | 6.66 | 35.062 | 27.52 |
| 1500 | 4.34 | 35.011 | 27.76 |
| 2000 | 3.66 | 34.984 | 27.81 |
| 2500 | 3.12 | 34.953 | 27.84 |
| 3000 | 2.72 | 34.928 | 27.85 |
| 3500 | 2.46 | 34.912 | 27.86 |
| 4000 | 2.34 | 34.903 | 27.87 |
| 4500 | 2.29 | 34.894 | 27.86 |
| 4890 | 2.24 | 34.882 | 27.86 |

RES-STACS27-87 CTD 5 RESEARCHER
Date 03 13 87 Latitude 23.066 N
Time 2322 Z Longitude 72.512 W



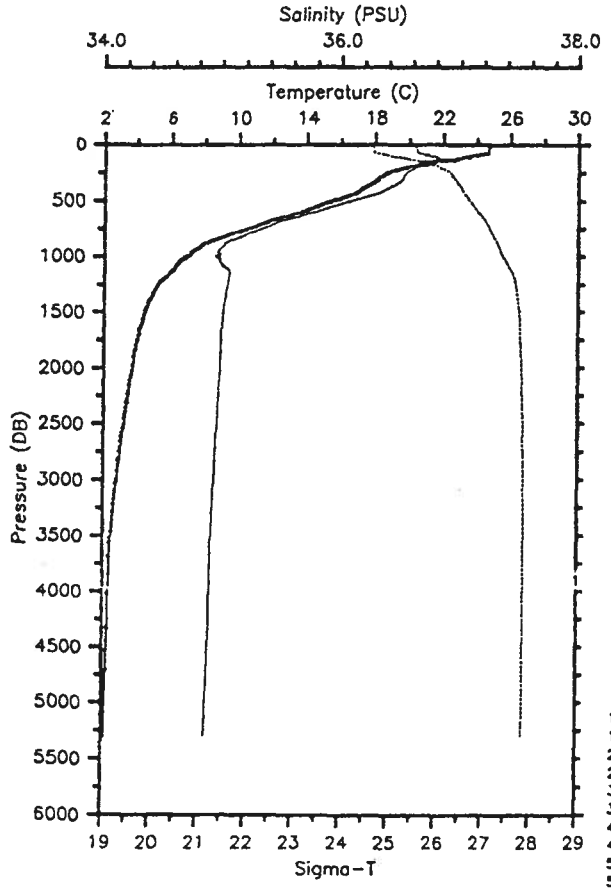

| Prs | Tem | Sal | SigT |
|---|---|---|---|
| 0 | 24.67 | 36.660 | 24.70 |
| 10 | 24.68 | 36.658 | 24.69 |
| 20 | 24.68 | 36.658 | 24.69 |
| 30 | 24.66 | 36.653 | 24.70 |
| 40 | 24.64 | 36.655 | 24.70 |
| 50 | 24.63 | 36.657 | 24.71 |
| 60 | 24.25 | 36.721 | 24.87 |
| 70 | 23.78 | 36.762 | 25.04 |
| 80 | 23.52 | 36.784 | 25.14 |
| 90 | 23.18 | 36.795 | 25.24 |
| 100 | 22.88 | 36.819 | 25.35 |
| 110 | 22.62 | 36.865 | 25.46 |
| 120 | 22.31 | 36.872 | 25.56 |
| 130 | 21.92 | 36.824 | 25.63 |
| 140 | 21.69 | 36.804 | 25.68 |
| 150 | 21.09 | 36.782 | 25.83 |
| 160 | 20.77 | 36.769 | 25.91 |
| 170 | 20.31 | 36.740 | 26.01 |
| 180 | 19.93 | 36.713 | 26.09 |
| 190 | 19.56 | 36.663 | 26.15 |
| 200 | 19.22 | 36.622 | 26.21 |
| 250 | 18.27 | 36.510 | 26.36 |
| 300 | 17.89 | 36.482 | 26.44 |
| 350 | 17.45 | 36.424 | 26.50 |
| 400 | 16.98 | 36.349 | 26.56 |
| 450 | 16.33 | 36.237 | 26.62 |
| 500 | 15.41 | 36.084 | 26.72 |
| 550 | 14.31 | 35.907 | 26.82 |
| 600 | 13.24 | 35.736 | 26.92 |
| 650 | 12.28 | 35.591 | 26.99 |
| 700 | 11.07 | 35.417 | 27.09 |
| 750 | 10.17 | 35.306 | 27.16 |
| 800 | 9.42 | 35.215 | 27.22 |
| 850 | 8.23 | 35.097 | 27.31 |
| 900 | 7.53 | 35.054 | 27.39 |
| 950 | 7.01 | 35.062 | 27.47 |
| 1000 | 6.60 | 35.060 | 27.52 |
| 1500 | 4.31 | 35.005 | 27.76 |
| 2000 | 3.62 | 34.978 | 27.81 |
| 2500 | 3.13 | 34.953 | 27.84 |
| 3000 | 2.75 | 34.930 | 27.85 |
| 3500 | 2.44 | 34.912 | 27.86 |
| 4000 | 2.33 | 34.902 | 27.87 |
| 4500 | 2.30 | 34.896 | 27.86 |
| 5000 | 2.23 | 34.880 | 27.86 |
| 5080 | 2.20 | 34.875 | 27.86 |

RES-STACS27-87 CTD 6 RESEARCHER
Date 03 13 87 Latitude 23.340 N
Time 0335 Z Longitude 72.420 W



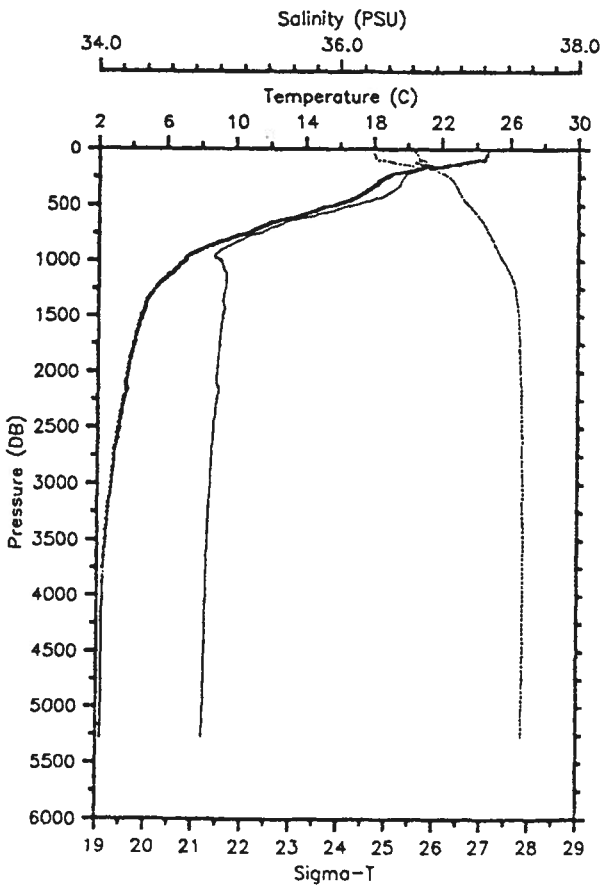

| Prs | Tem | Sal | SigT |
|---|---|---|---|
| 0 | 24.94 | 36.547 | 24.53 |
| 10 | 24.97 | 36.548 | 24.52 |
| 20 | 24.97 | 36.581 | 24.56 |
| 30 | 24.70 | 36.621 | 24.66 |
| 40 | 24.62 | 36.640 | 24.70 |
| 50 | 24.56 | 36.653 | 24.73 |
| 60 | 24.33 | 36.658 | 24.80 |
| 70 | 24.11 | 36.666 | 24.87 |
| 80 | 23.82 | 36.682 | 24.95 |
| 90 | 23.26 | 36.663 | 25.12 |
| 100 | 22.81 | 36.652 | 25.24 |
| 110 | 22.65 | 36.645 | 25.29 |
| 120 | 22.23 | 36.608 | 25.38 |
| 130 | 21.91 | 36.648 | 25.50 |
| 140 | 22.03 | 36.815 | 25.59 |
| 150 | 21.66 | 36.810 | 25.69 |
| 160 | 21.18 | 36.805 | 25.82 |
| 170 | 20.68 | 36.789 | 25.93 |
| 180 | 20.34 | 36.744 | 26.00 |
| 190 | 20.21 | 36.816 | 26.09 |
| 200 | 19.80 | 36.754 | 26.16 |
| 250 | 18.61 | 36.562 | 26.32 |
| 300 | 18.10 | 36.511 | 26.41 |
| 350 | 17.59 | 36.447 | 26.48 |
| 400 | 17.10 | 36.373 | 26.55 |
| 450 | 16.34 | 36.241 | 26.62 |
| 500 | 15.27 | 36.063 | 26.73 |
| 550 | 14.54 | 35.945 | 26.80 |
| 600 | 13.52 | 35.774 | 26.89 |
| 650 | 12.36 | 35.600 | 26.99 |
| 700 | 11.42 | 35.464 | 27.06 |
| 750 | 10.72 | 35.375 | 27.12 |
| 800 | 9.80 | 35.281 | 27.19 |
| 850 | 8.84 | 35.166 | 27.28 |
| 900 | 8.10 | 35.097 | 27.34 |
| 950 | 7.33 | 35.042 | 27.40 |
| 1000 | 6.84 | 35.052 | 27.48 |
| 1500 | 4.34 | 35.007 | 27.76 |
| 2000 | 3.71 | 34.985 | 27.80 |
| 2500 | 3.19 | 34.960 | 27.84 |
| 3000 | 2.78 | 34.935 | 27.85 |
| 3500 | 2.47 | 34.916 | 27.87 |
| 4000 | 2.34 | 34.904 | 27.87 |
| 4500 | 2.30 | 34.895 | 27.86 |
| 5000 | 2.27 | 34.886 | 27.86 |
| 5292 | 2.16 | 34.865 | 27.85 |

RES-STACS27-87 CTD 7 RESEARCHER
Date 03 14 87 Latitude 23.600 N
Time 0803 Z Longitude 72.300 W



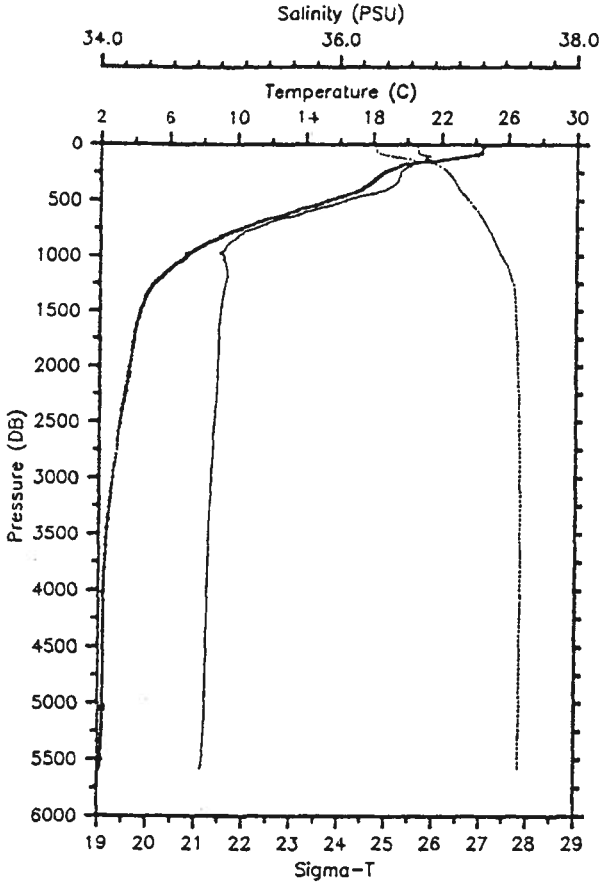

| Prs | Tem | Sal | SigT |
|---|---|---|---|
| 0 | 24.66 | 36.605 | 24.66 |
| 10 | 24.66 | 36.602 | 24.66 |
| 20 | 24.69 | 36.615 | 24.66 |
| 30 | 24.70 | 36.624 | 24.66 |
| 40 | 24.70 | 36.627 | 24.67 |
| 50 | 24.69 | 36.632 | 24.67 |
| 60 | 24.68 | 36.631 | 24.67 |
| 70 | 24.67 | 36.632 | 24.68 |
| 80 | 24.49 | 36.668 | 24.76 |
| 90 | 24.23 | 36.732 | 24.89 |
| 100 | 23.70 | 36.703 | 25.02 |
| 110 | 23.48 | 36.802 | 25.16 |
| 120 | 22.96 | 36.807 | 25.32 |
| 130 | 22.80 | 36.888 | 25.43 |
| 140 | 22.42 | 36.841 | 25.50 |
| 150 | 21.44 | 36.680 | 25.65 |
| 160 | 21.20 | 36.686 | 25.72 |
| 170 | 21.00 | 36.793 | 25.86 |
| 180 | 20.51 | 36.690 | 25.92 |
| 190 | 20.15 | 36.664 | 25.99 |
| 200 | 19.83 | 36.629 | 26.05 |
| 250 | 18.72 | 36.542 | 26.27 |
| 300 | 18.24 | 36.518 | 26.38 |
| 350 | 17.75 | 36.465 | 26.46 |
| 400 | 17.15 | 36.375 | 26.54 |
| 450 | 16.44 | 36.254 | 26.61 |
| 500 | 15.49 | 36.093 | 26.71 |
| 550 | 14.57 | 35.934 | 26.79 |
| 600 | 13.70 | 35.796 | 26.87 |
| 650 | 12.49 | 35.616 | 26.97 |
| 700 | 11.44 | 35.459 | 27.05 |
| 750 | 10.49 | 35.342 | 27.13 |
| 800 | 9.49 | 35.210 | 27.20 |
| 850 | 8.61 | 35.098 | 27.26 |
| 900 | 7.81 | 35.017 | 27.32 |
| 950 | 7.28 | 34.969 | 27.36 |
| 1000 | 6.84 | 34.949 | 27.40 |
| 1500 | 4.42 | 35.008 | 27.75 |
| 2000 | 3.75 | 34.984 | 27.80 |
| 2500 | 3.22 | 34.961 | 27.83 |
| 3000 | 2.82 | 34.936 | 27.85 |
| 3500 | 2.52 | 34.916 | 27.86 |
| 4000 | 2.38 | 34.905 | 27.86 |
| 4500 | 2.31 | 34.896 | 27.86 |
| 5000 | 2.24 | 34.880 | 27.86 |
| 5296 | 2.17 | 34.867 | 27.85 |

RES-STACS27-87 CTD 8 RESEARCHER
Date 03 14 87 Latitude 23.949 N
Time 1537 Z Longitude 72.150 W



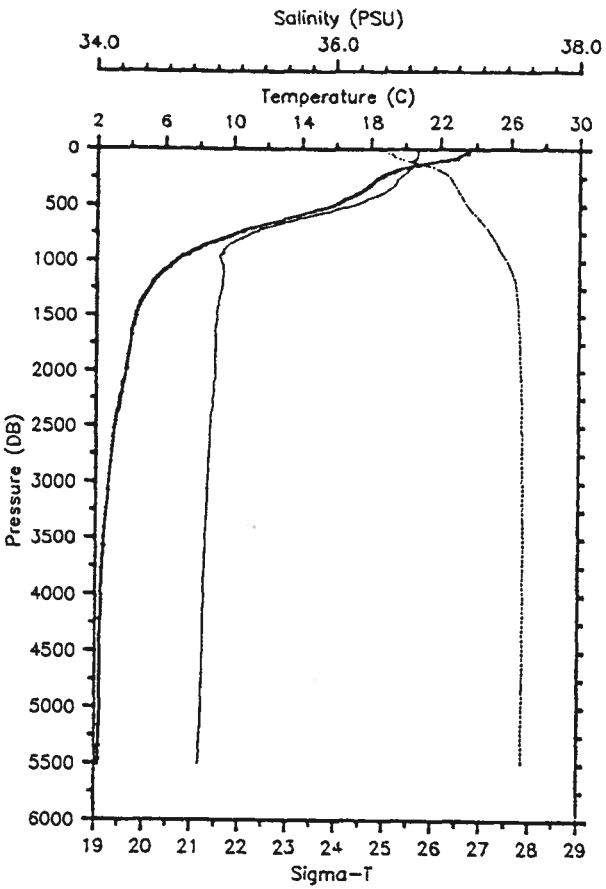

| Prs | Tem | Sal | SigT |
|---|---|---|---|
| 0 | 24.66 | 36.622 | 24.67 |
| 10 | 24.66 | 36.622 | 24.67 |
| 20 | 24.66 | 36.623 | 24.68 |
| 30 | 24.66 | 36.630 | 24.68 |
| 40 | 24.65 | 36.635 | 24.68 |
| 50 | 24.58 | 36.651 | 24.72 |
| 60 | 24.55 | 36.653 | 24.73 |
| 70 | 24.55 | 36.655 | 24.73 |
| 80 | 24.54 | 36.659 | 24.74 |
| 90 | 24.45 | 36.662 | 24.77 |
| 100 | 24.12 | 36.682 | 24.88 |
| 110 | 23.80 | 36.729 | 25.01 |
| 120 | 23.17 | 36.623 | 25.12 |
| 130 | 22.95 | 36.686 | 25.23 |
| 140 | 22.44 | 36.718 | 25.40 |
| 150 | 22.30 | 36.828 | 25.52 |
| 160 | 21.76 | 36.844 | 25.69 |
| 170 | 20.86 | 36.680 | 25.81 |
| 180 | 20.47 | 36.652 | 25.90 |
| 190 | 20.17 | 36.667 | 25.99 |
| 200 | 19.78 | 36.630 | 26.06 |
| 250 | 18.65 | 36.532 | 26.28 |
| 300 | 18.19 | 36.507 | 26.38 |
| 350 | 17.81 | 36.473 | 26.45 |
| 400 | 17.28 | 36.387 | 26.52 |
| 450 | 16.62 | 36.287 | 26.59 |
| 500 | 15.63 | 36.118 | 26.69 |
| 550 | 14.57 | 35.947 | 26.80 |
| 600 | 13.53 | 35.786 | 26.89 |
| 650 | 12.07 | 35.548 | 27.00 |
| 700 | 11.30 | 35.439 | 27.06 |
| 750 | 10.60 | 35.344 | 27.12 |
| 800 | 9.57 | 35.203 | 27.18 |
| 850 | 8.69 | 35.106 | 27.25 |
| 900 | 7.93 | 35.028 | 27.31 |
| 950 | 7.29 | 34.973 | 27.36 |
| 1000 | 7.03 | 35.007 | 27.42 |
| 1500 | 4.53 | 35.033 | 27.76 |
| 2000 | 3.77 | 34.991 | 27.80 |
| 2500 | 3.24 | 34.963 | 27.83 |
| 3000 | 2.82 | 34.936 | 27.85 |
| 3500 | 2.48 | 34.915 | 27.86 |
| 4000 | 2.34 | 34.903 | 27.87 |
| 4500 | 2.31 | 34.896 | 27.86 |
| 5000 | 2.31 | 34.888 | 27.86 |
| 5268 | 2.28 | 34.881 | 27.85 |

RES-STACS27-87 CTD 9 RESEARCHER
Date 03 14 87 Latitude 24.277 N
Time 2045 Z Longitude 72.010 W



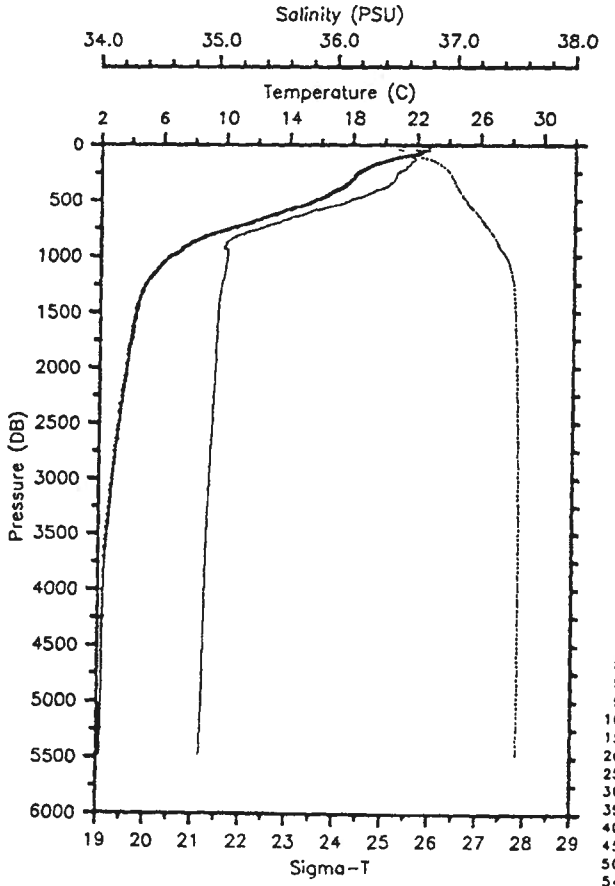

| Prs | Tem | Sal | SigT |
|---|---|---|---|
| 0 | 24.44 | 36.658 | 24.77 |
| 10 | 24.45 | 36.653 | 24.76 |
| 20 | 24.45 | 36.652 | 24.76 |
| 30 | 24.39 | 36.660 | 24.78 |
| 40 | 24.40 | 36.660 | 24.78 |
| 50 | 24.40 | 36.661 | 24.78 |
| 60 | 24.40 | 36.661 | 24.78 |
| 70 | 24.39 | 36.660 | 24.78 |
| 80 | 24.21 | 36.674 | 24.85 |
| 90 | 24.14 | 36.679 | 24.87 |
| 100 | 23.74 | 36.717 | 25.02 |
| 110 | 23.28 | 36.737 | 25.17 |
| 120 | 22.90 | 36.724 | 25.27 |
| 130 | 22.44 | 36.713 | 25.40 |
| 140 | 21.97 | 36.743 | 25.55 |
| 150 | 21.54 | 36.738 | 25.67 |
| 160 | 20.78 | 36.678 | 25.83 |
| 170 | 20.29 | 36.629 | 25.93 |
| 180 | 19.76 | 36.584 | 26.04 |
| 190 | 19.54 | 36.582 | 26.09 |
| 200 | 19.43 | 36.592 | 26.13 |
| 250 | 18.56 | 36.518 | 26.29 |
| 300 | 18.16 | 36.502 | 26.39 |
| 350 | 17.82 | 36.474 | 26.45 |
| 400 | 17.28 | 36.395 | 26.52 |
| 450 | 16.35 | 36.240 | 26.62 |
| 500 | 15.28 | 36.061 | 26.73 |
| 550 | 14.26 | 35.899 | 26.83 |
| 600 | 13.09 | 35.718 | 26.93 |
| 650 | 12.12 | 35.560 | 27.00 |
| 700 | 11.01 | 35.399 | 27.08 |
| 750 | 10.23 | 35.300 | 27.15 |
| 800 | 9.39 | 35.190 | 27.20 |
| 850 | 8.74 | 35.129 | 27.26 |
| 900 | 8.05 | 35.064 | 27.32 |
| 950 | 7.47 | 35.033 | 27.38 |
| 1000 | 7.03 | 35.031 | 27.44 |
| 1500 | 4.37 | 35.008 | 27.75 |
| 2000 | 3.77 | 34.985 | 27.80 |
| 2500 | 3.22 | 34.959 | 27.83 |
| 3000 | 2.81 | 34.936 | 27.85 |
| 3500 | 2.49 | 34.915 | 27.86 |
| 4000 | 2.34 | 34.903 | 27.87 |
| 4500 | 2.31 | 34.898 | 27.86 |
| 5000 | 2.31 | 34.889 | 27.86 |
| 5500 | 2.21 | 34.868 | 27.85 |
| 5584 | 2.12 | 34.855 | 27.85 |

RES-STACS27-87 CTD 10 RESEARCHER
Date 03 15 87 Latitude 24.603 N
Time 0241 Z Longitude 72.328 W



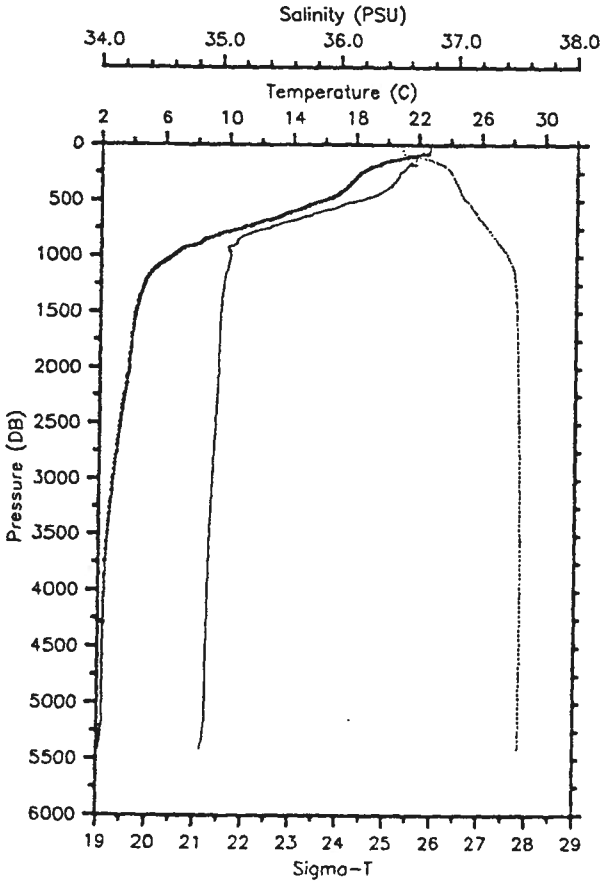

| Prs | Tem | Sal | SigT |
|---|---|---|---|
| 0 | 23.60 | 36.676 | 25.03 |
| 10 | 23.62 | 36.674 | 25.02 |
| 20 | 23.62 | 36.674 | 25.03 |
| 30 | 23.62 | 36.673 | 25.02 |
| 40 | 23.51 | 36.678 | 25.06 |
| 50 | 23.15 | 36.676 | 25.16 |
| 60 | 23.02 | 36.669 | 25.19 |
| 70 | 22.99 | 36.669 | 25.21 |
| 80 | 22.84 | 36.673 | 25.25 |
| 90 | 22.55 | 36.652 | 25.32 |
| 100 | 22.34 | 36.662 | 25.39 |
| 110 | 21.77 | 36.597 | 25.50 |
| 120 | 21.38 | 36.616 | 25.62 |
| 130 | 21.18 | 36.650 | 25.70 |
| 140 | 20.84 | 36.646 | 25.79 |
| 150 | 20.47 | 36.633 | 25.88 |
| 160 | 20.14 | 36.629 | 25.97 |
| 170 | 19.79 | 36.613 | 26.05 |
| 180 | 19.62 | 36.603 | 26.09 |
| 190 | 19.43 | 36.599 | 26.13 |
| 200 | 19.29 | 36.596 | 26.17 |
| 250 | 18.47 | 36.528 | 26.33 |
| 300 | 18.09 | 36.497 | 26.40 |
| 350 | 17.65 | 36.447 | 26.47 |
| 400 | 17.11 | 36.367 | 26.54 |
| 450 | 16.41 | 36.249 | 26.62 |
| 500 | 15.72 | 36.138 | 26.69 |
| 550 | 14.67 | 35.967 | 26.79 |
| 600 | 13.50 | 35.777 | 26.89 |
| 650 | 12.43 | 35.614 | 26.98 |
| 700 | 11.27 | 35.451 | 27.08 |
| 750 | 10.24 | 35.317 | 27.16 |
| 800 | 9.37 | 35.217 | 27.23 |
| 850 | 8.44 | 35.113 | 27.30 |
| 900 | 7.87 | 35.068 | 27.35 |
| 950 | 7.26 | 35.046 | 27.42 |
| 1000 | 6.66 | 35.036 | 27.49 |
| 1500 | 4.36 | 35.009 | 27.76 |
| 2000 | 3.73 | 34.991 | 27.81 |
| 2500 | 3.16 | 34.956 | 27.83 |
| 3000 | 2.79 | 34.934 | 27.85 |
| 3500 | 2.49 | 34.916 | 27.86 |
| 4000 | 2.34 | 34.904 | 27.87 |
| 4500 | 2.32 | 34.898 | 27.86 |
| 5000 | 2.31 | 34.888 | 27.86 |
| 5500 | 2.21 | 34.868 | 27.85 |
| 5506 | 2.21 | 34.868 | 27.85 |

RES-STACS27-87 CTD 11 RESEARCHER
Date 03 15 87 Latitude 24.996 N
Time 0952 Z Longitude 72.670 W



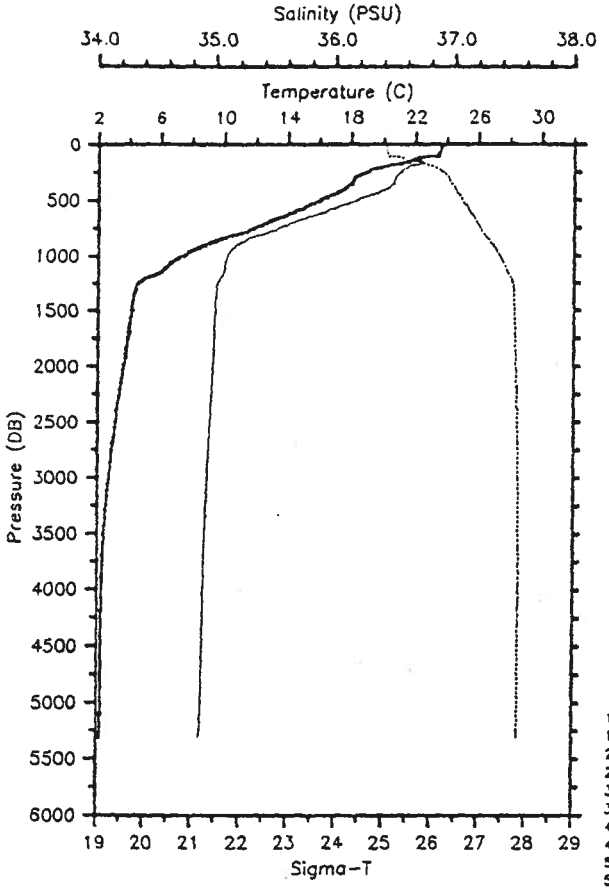

| Prs | Tem | Sal | SigT |
|---|---|---|---|
| 0 | 22.73 | 36.658 | 25.27 |
| 10 | 22.74 | 36.659 | 25.27 |
| 20 | 22.74 | 36.659 | 25.27 |
| 30 | 22.75 | 36.659 | 25.27 |
| 40 | 22.74 | 36.660 | 25.27 |
| 50 | 22.31 | 36.639 | 25.38 |
| 60 | 22.29 | 36.715 | 25.44 |
| 70 | 22.22 | 36.719 | 25.46 |
| 80 | 22.09 | 36.699 | 25.49 |
| 90 | 21.74 | 36.670 | 25.56 |
| 100 | 21.28 | 36.649 | 25.67 |
| 110 | 20.91 | 36.624 | 25.76 |
| 120 | 20.64 | 36.636 | 25.84 |
| 130 | 20.42 | 36.647 | 25.91 |
| 140 | 20.11 | 36.646 | 25.99 |
| 150 | 19.86 | 36.622 | 26.04 |
| 160 | 19.71 | 36.620 | 26.08 |
| 170 | 19.52 | 36.614 | 26.12 |
| 180 | 19.27 | 36.599 | 26.17 |
| 190 | 19.18 | 36.602 | 26.21 |
| 200 | 18.92 | 36.581 | 26.25 |
| 250 | 18.32 | 36.511 | 26.35 |
| 300 | 18.01 | 36.486 | 26.41 |
| 350 | 17.63 | 36.448 | 26.47 |
| 400 | 17.05 | 36.357 | 26.55 |
| 450 | 16.36 | 36.239 | 26.62 |
| 500 | 15.56 | 36.110 | 26.70 |
| 550 | 14.76 | 35.978 | 26.78 |
| 600 | 13.48 | 35.782 | 26.90 |
| 650 | 12.55 | 35.645 | 26.98 |
| 700 | 11.56 | 35.511 | 27.07 |
| 750 | 10.39 | 35.361 | 27.17 |
| 800 | 9.23 | 35.219 | 27.25 |
| 850 | 8.26 | 35.109 | 27.32 |
| 900 | 7.66 | 35.068 | 27.38 |
| 950 | 7.15 | 35.080 | 27.46 |
| 1000 | 6.47 | 35.070 | 27.55 |
| 1500 | 4.30 | 35.004 | 27.76 |
| 2000 | 3.76 | 34.985 | 27.80 |
| 2500 | 3.28 | 34.962 | 27.83 |
| 3000 | 2.87 | 34.937 | 27.85 |
| 3500 | 2.55 | 34.917 | 27.86 |
| 4000 | 2.37 | 34.905 | 27.87 |
| 4500 | 2.32 | 34.897 | 27.86 |
| 5000 | 2.29 | 34.888 | 27.86 |
| 5474 | 2.21 | 34.868 | 27.85 |

RES-STACS27-87 CTD 12 RESEARCHER
Date 03 15 87 Latitude 25.365 N
Time 1533 Z Longitude 72.994 W



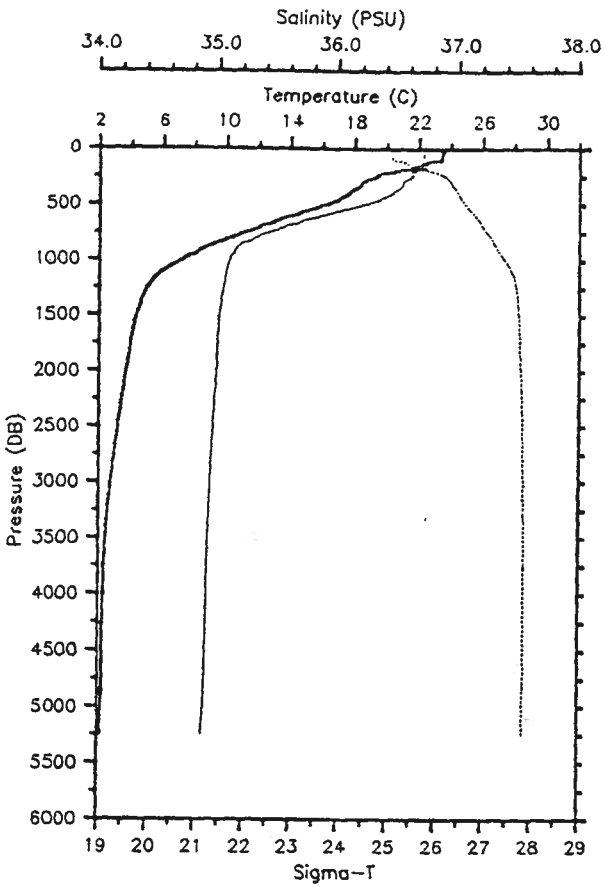

| Prs | Tem | Sal | SigT |
|---|---|---|---|
| 0 | 22.67 | 36.696 | 25.32 |
| 10 | 22.68 | 36.697 | 25.31 |
| 20 | 22.69 | 36.697 | 25.31 |
| 30 | 22.69 | 36.697 | 25.31 |
| 40 | 22.69 | 36.697 | 25.31 |
| 50 | 22.69 | 36.697 | 25.31 |
| 60 | 22.69 | 36.697 | 25.31 |
| 70 | 22.69 | 36.697 | 25.31 |
| 80 | 22.66 | 36.694 | 25.32 |
| 90 | 22.00 | 36.673 | 25.49 |
| 100 | 21.67 | 36.658 | 25.57 |
| 110 | 21.38 | 36.645 | 25.64 |
| 120 | 21.07 | 36.647 | 25.73 |
| 130 | 20.76 | 36.651 | 25.82 |
| 140 | 20.24 | 36.640 | 25.95 |
| 150 | 19.99 | 36.621 | 26.00 |
| 160 | 19.74 | 36.604 | 26.06 |
| 170 | 19.52 | 36.585 | 26.10 |
| 180 | 19.52 | 36.646 | 26.14 |
| 190 | 19.13 | 36.582 | 26.20 |
| 200 | 18.97 | 36.559 | 26.22 |
| 250 | 18.35 | 36.510 | 26.34 |
| 300 | 18.01 | 36.486 | 26.41 |
| 350 | 17.61 | 36.442 | 26.47 |
| 400 | 17.27 | 36.395 | 26.52 |
| 450 | 16.78 | 36.311 | 26.57 |
| 500 | 15.97 | 36.173 | 26.66 |
| 550 | 14.94 | 36.003 | 26.76 |
| 600 | 13.89 | 35.838 | 26.86 |
| 650 | 13.05 | 35.704 | 26.93 |
| 700 | 11.84 | 35.538 | 27.04 |
| 750 | 10.77 | 35.399 | 27.13 |
| 800 | 9.54 | 35.240 | 27.22 |
| 850 | 8.44 | 35.144 | 27.32 |
| 900 | 7.84 | 35.118 | 27.39 |
| 950 | 6.89 | 35.055 | 27.48 |
| 1000 | 6.46 | 35.079 | 27.55 |
| 1500 | 4.25 | 35.000 | 27.76 |
| 2000 | 3.84 | 34.987 | 27.79 |
| 2500 | 3.32 | 34.963 | 27.82 |
| 3000 | 2.89 | 34.937 | 27.84 |
| 3500 | 2.56 | 34.919 | 27.86 |
| 4000 | 2.39 | 34.906 | 27.86 |
| 4500 | 2.34 | 34.898 | 27.86 |
| 5000 | 2.34 | 34.892 | 27.86 |
| 5404 | 2.12 | 34.858 | 27.85 |

RES-STACS27-87 CTD 13 RESEARCHER
Date 03 15 87 Latitude 25.717 N
Time 2250 Z Longitude 73.347 W



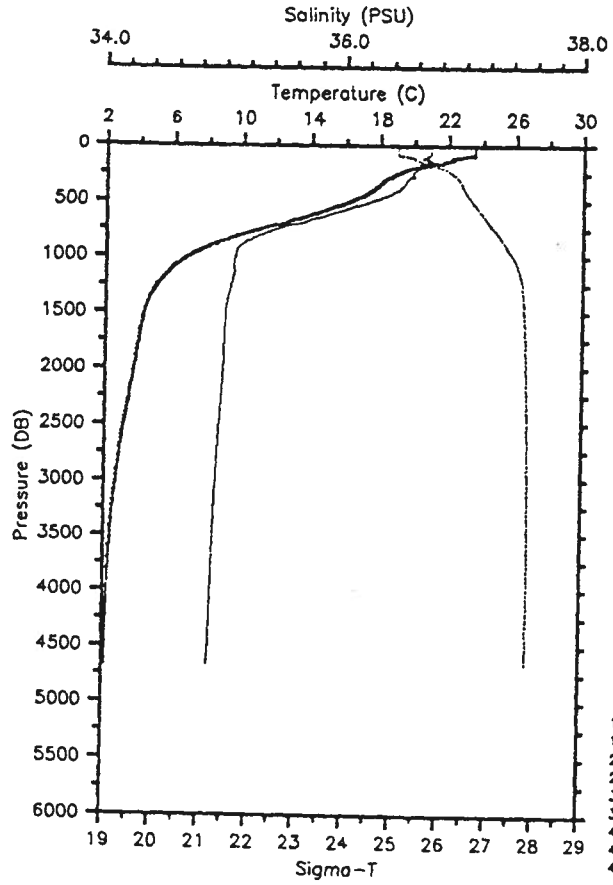

| Prs | Tem | Sal | SigT |
|---|---|---|---|
| 0 | 23.68 | 36.711 | 25.03 |
| 10 | 23.69 | 36.702 | 25.03 |
| 20 | 23.63 | 36.697 | 25.04 |
| 30 | 23.52 | 36.698 | 25.04 |
| 40 | 23.61 | 36.698 | 25.05 |
| 50 | 23.59 | 36.698 | 25.05 |
| 60 | 23.54 | 36.697 | 25.06 |
| 70 | 23.51 | 36.698 | 25.07 |
| 80 | 23.51 | 36.699 | 25.08 |
| 90 | 23.49 | 36.698 | 25.08 |
| 100 | 23.45 | 36.694 | 25.09 |
| 110 | 23.34 | 36.688 | 25.12 |
| 120 | 22.35 | 36.657 | 25.38 |
| 130 | 22.24 | 36.683 | 25.43 |
| 140 | 22.02 | 36.669 | 25.48 |
| 150 | 21.60 | 36.629 | 25.57 |
| 160 | 21.58 | 36.731 | 25.66 |
| 170 | 21.14 | 36.728 | 25.77 |
| 180 | 20.78 | 36.709 | 25.86 |
| 190 | 20.25 | 36.655 | 25.96 |
| 200 | 19.91 | 36.602 | 26.01 |
| 250 | 18.39 | 36.554 | 26.24 |
| 300 | 18.19 | 36.504 | 26.38 |
| 350 | 18.04 | 36.491 | 26.41 |
| 400 | 17.40 | 36.415 | 26.51 |
| 450 | 16.82 | 36.321 | 26.57 |
| 500 | 16.06 | 36.194 | 26.65 |
| 550 | 15.15 | 36.043 | 26.74 |
| 600 | 14.41 | 35.923 | 26.81 |
| 650 | 13.61 | 35.794 | 26.88 |
| 700 | 12.73 | 35.659 | 26.96 |
| 750 | 11.86 | 35.527 | 27.03 |
| 800 | 10.91 | 35.404 | 27.11 |
| 850 | 9.89 | 35.263 | 27.21 |
| 900 | 8.73 | 35.177 | 27.30 |
| 950 | 7.92 | 35.118 | 27.38 |
| 1000 | 7.28 | 35.094 | 27.45 |
| 1500 | 4.18 | 34.997 | 27.77 |
| 2000 | 3.68 | 34.981 | 27.80 |
| 2500 | 3.15 | 34.954 | 27.83 |
| 3000 | 2.78 | 34.932 | 27.85 |
| 3500 | 2.47 | 34.915 | 27.86 |
| 4000 | 2.35 | 34.904 | 27.87 |
| 4500 | 2.31 | 34.897 | 27.86 |
| 5000 | 2.31 | 34.889 | 27.86 |
| 5308 | 2.22 | 34.873 | 27.85 |

RES-STACS27-87 CTD 14 RESEARCHER
Date 03 16 87 Latitude 26.128 N
Time 1007 Z Longitude 73.648 W



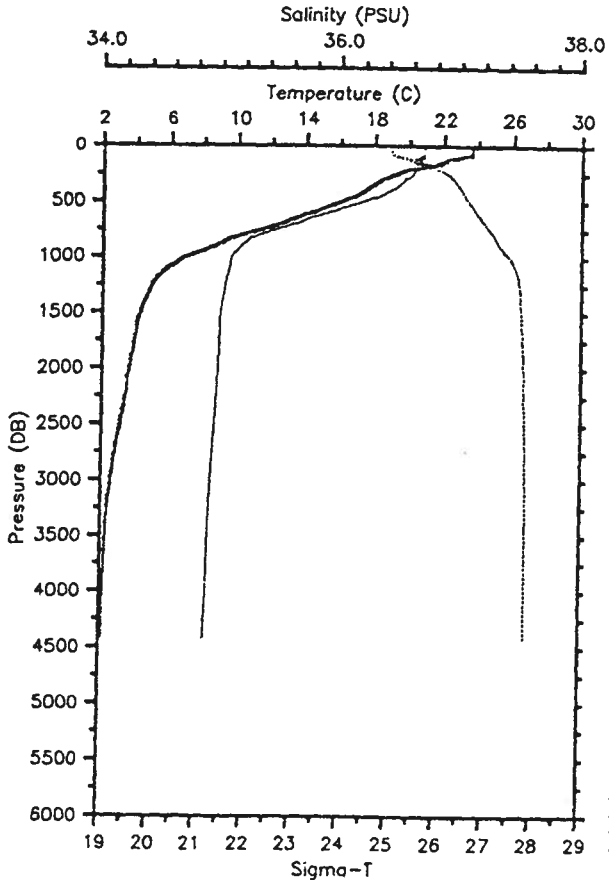

| Prs | Tem | Sal | SigT |
|---|---|---|---|
| 0 | 23.49 | 36.700 | 25.08 |
| 10 | 23.49 | 36.703 | 25.09 |
| 20 | 23.50 | 36.703 | 25.08 |
| 30 | 23.47 | 36.706 | 25.09 |
| 40 | 23.45 | 36.707 | 25.10 |
| 50 | 23.43 | 36.708 | 25.11 |
| 60 | 23.42 | 36.707 | 25.11 |
| 70 | 23.42 | 36.707 | 25.11 |
| 80 | 23.41 | 36.707 | 25.11 |
| 90 | 23.40 | 36.707 | 25.11 |
| 100 | 23.32 | 36.697 | 25.13 |
| 110 | 22.76 | 36.687 | 25.28 |
| 120 | 22.50 | 36.689 | 25.36 |
| 130 | 22.44 | 36.685 | 25.37 |
| 140 | 22.11 | 36.683 | 25.47 |
| 150 | 21.83 | 36.667 | 25.53 |
| 160 | 21.49 | 36.616 | 25.59 |
| 170 | 21.57 | 36.681 | 25.63 |
| 180 | 21.33 | 36.723 | 25.72 |
| 190 | 20.74 | 36.814 | 25.80 |
| 200 | 20.46 | 36.642 | 25.89 |
| 250 | 19.18 | 36.605 | 26.20 |
| 300 | 18.41 | 36.532 | 26.34 |
| 350 | 18.04 | 36.504 | 26.42 |
| 400 | 17.56 | 36.440 | 26.49 |
| 450 | 17.00 | 36.350 | 26.55 |
| 500 | 16.23 | 36.222 | 26.64 |
| 550 | 15.13 | 36.040 | 26.75 |
| 600 | 14.14 | 35.880 | 26.84 |
| 650 | 13.01 | 35.703 | 26.94 |
| 700 | 12.06 | 35.560 | 27.01 |
| 750 | 11.09 | 35.425 | 27.09 |
| 800 | 10.14 | 35.308 | 27.17 |
| 850 | 9.14 | 35.183 | 27.24 |
| 900 | 8.51 | 35.140 | 27.31 |
| 950 | 7.92 | 35.121 | 27.38 |
| 1000 | 7.22 | 35.091 | 27.46 |
| 1500 | 4.35 | 35.003 | 27.75 |
| 2000 | 3.72 | 34.983 | 27.80 |
| 2500 | 3.21 | 34.957 | 27.83 |
| 3000 | 2.79 | 34.934 | 27.85 |
| 3500 | 2.47 | 34.916 | 27.87 |
| 4000 | 2.35 | 34.905 | 27.87 |
| 4500 | 2.30 | 34.896 | 27.86 |
| 5000 | 2.26 | 34.884 | 27.86 |
| 5246 | 2.16 | 34.868 | 27.85 |

RES-STACS27-87 CTD 15 RESEARCHER
Date 03 16 87 Latitude 26.508 N
Time 1749 Z Longitude 74.001 W



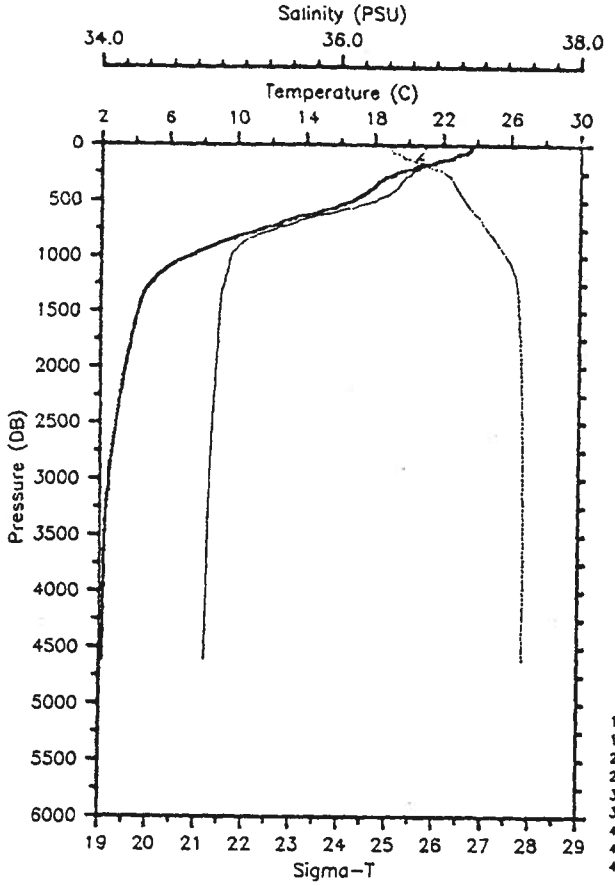

| Prs | Tem | Sal | SigT |
|---|---|---|---|
| 0 | 23.59 | 36.714 | 25.06 |
| 10 | 23.54 | 36.706 | 25.07 |
| 20 | 23.53 | 36.708 | 25.08 |
| 30 | 23.53 | 36.706 | 25.08 |
| 40 | 23.52 | 36.706 | 25.08 |
| 50 | 23.52 | 36.707 | 25.08 |
| 60 | 23.52 | 36.706 | 25.08 |
| 70 | 23.52 | 36.705 | 25.08 |
| 80 | 23.49 | 36.700 | 25.08 |
| 90 | 23.17 | 36.671 | 25.15 |
| 100 | 22.69 | 36.686 | 25.30 |
| 110 | 22.33 | 36.637 | 25.37 |
| 120 | 22.17 | 36.672 | 25.44 |
| 130 | 22.13 | 36.710 | 25.48 |
| 140 | 21.79 | 36.680 | 25.56 |
| 150 | 21.73 | 36.736 | 25.62 |
| 160 | 21.25 | 36.643 | 25.68 |
| 170 | 20.97 | 36.624 | 25.74 |
| 180 | 20.73 | 36.643 | 25.82 |
| 190 | 20.36 | 36.649 | 25.92 |
| 200 | 19.95 | 36.611 | 26.01 |
| 250 | 18.96 | 36.554 | 26.22 |
| 300 | 18.32 | 36.516 | 26.35 |
| 350 | 17.98 | 36.486 | 26.42 |
| 400 | 17.56 | 36.435 | 26.48 |
| 450 | 16.97 | 36.345 | 26.56 |
| 500 | 16.20 | 36.213 | 26.64 |
| 550 | 15.28 | 36.063 | 26.73 |
| 600 | 14.38 | 35.919 | 26.82 |
| 650 | 13.32 | 35.755 | 26.91 |
| 700 | 12.36 | 35.613 | 27.00 |
| 750 | 11.09 | 35.441 | 27.10 |
| 800 | 10.02 | 35.315 | 27.20 |
| 850 | 9.10 | 35.214 | 27.27 |
| 900 | 8.10 | 35.123 | 27.36 |
| 950 | 7.40 | 35.092 | 27.43 |
| 1000 | 6.81 | 35.080 | 27.51 |
| 1500 | 4.28 | 35.000 | 27.76 |
| 2000 | 3.70 | 34.984 | 27.80 |
| 2500 | 3.15 | 34.954 | 27.83 |
| 3000 | 2.70 | 34.929 | 27.86 |
| 3500 | 2.41 | 34.911 | 27.87 |
| 4000 | 2.27 | 34.896 | 27.87 |
| 4500 | 2.21 | 34.885 | 27.86 |
| 4664 | 2.15 | 34.873 | 27.86 |

RES-STACS27-87 CTD 16 RESEARCHER
Date 03 16 87 Latitude 26.504 N
Time 2304 Z Longitude 74.551 W



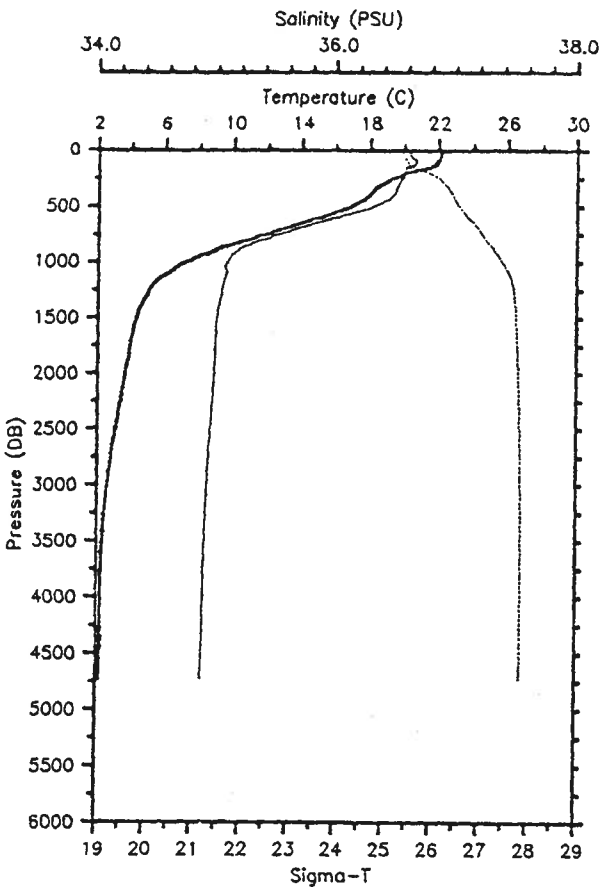

| Prs | Tem | Sal | SigT |
|---|---|---|---|
| 0 | 23.87 | 36.694 | 24.96 |
| 10 | 23.67 | 36.687 | 25.02 |
| 20 | 23.63 | 36.688 | 25.03 |
| 30 | 23.61 | 36.690 | 25.04 |
| 40 | 23.61 | 36.690 | 25.04 |
| 50 | 23.60 | 36.689 | 25.04 |
| 60 | 23.59 | 36.688 | 25.04 |
| 70 | 23.58 | 36.690 | 25.05 |
| 80 | 23.58 | 36.690 | 25.05 |
| 90 | 23.17 | 36.650 | 25.14 |
| 100 | 22.84 | 36.654 | 25.24 |
| 110 | 22.65 | 36.668 | 25.30 |
| 120 | 22.20 | 36.621 | 25.39 |
| 130 | 22.14 | 36.662 | 25.44 |
| 140 | 21.93 | 36.674 | 25.51 |
| 150 | 21.65 | 36.632 | 25.56 |
| 160 | 21.78 | 36.713 | 25.58 |
| 170 | 21.50 | 36.715 | 25.66 |
| 180 | 21.19 | 36.728 | 25.76 |
| 190 | 20.91 | 36.702 | 25.82 |
| 200 | 20.39 | 36.670 | 25.93 |
| 250 | 19.22 | 36.601 | 26.19 |
| 300 | 18.39 | 36.534 | 26.35 |
| 350 | 17.91 | 36.485 | 26.43 |
| 400 | 17.42 | 36.415 | 26.50 |
| 450 | 16.86 | 36.329 | 26.57 |
| 500 | 16.05 | 36.192 | 26.65 |
| 550 | 15.13 | 36.038 | 26.75 |
| 600 | 14.23 | 35.894 | 26.83 |
| 650 | 13.31 | 35.752 | 26.91 |
| 700 | 12.45 | 35.626 | 26.99 |
| 750 | 11.39 | 35.473 | 27.07 |
| 800 | 10.15 | 35.318 | 27.18 |
| 850 | 9.27 | 35.220 | 27.25 |
| 900 | 8.64 | 35.171 | 27.31 |
| 950 | 7.88 | 35.126 | 27.39 |
| 1000 | 7.00 | 35.086 | 27.49 |
| 1500 | 4.25 | 34.998 | 27.76 |
| 2000 | 3.61 | 34.978 | 27.81 |
| 2500 | 3.11 | 34.952 | 27.84 |
| 3000 | 2.61 | 34.924 | 27.86 |
| 3500 | 2.34 | 34.906 | 27.87 |
| 4000 | 2.23 | 34.894 | 27.87 |
| 4414 | 2.15 | 34.878 | 27.86 |

RES-STACS27-87 CTD 17 RESEARCHER
Date 03 17 87 Latitude 26.500 N
Time 1056 Z Longitude 75.012 W



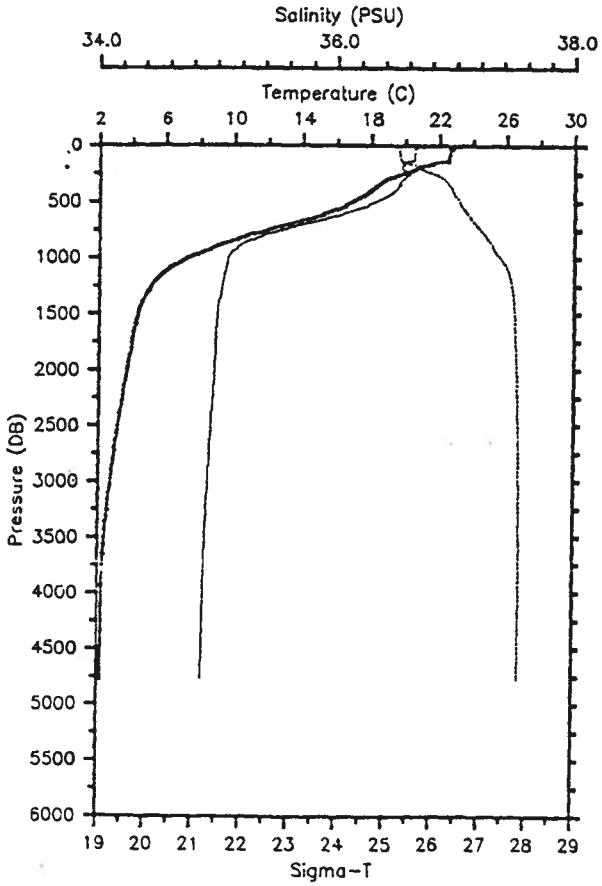

| Prs | Tem | Sal | SigT |
|---|---|---|---|
| 0 | 23.58 | 36.719 | 25.07 |
| 10 | 23.60 | 36.715 | 25.06 |
| 20 | 23.61 | 36.715 | 25.06 |
| 30 | 23.61 | 36.714 | 25.06 |
| 40 | 23.61 | 36.713 | 25.06 |
| 50 | 23.44 | 36.696 | 25.09 |
| 60 | 23.38 | 36.696 | 25.11 |
| 70 | 23.29 | 36.689 | 25.13 |
| 80 | 22.97 | 36.674 | 25.21 |
| 90 | 22.86 | 36.667 | 25.24 |
| 100 | 22.60 | 36.646 | 25.30 |
| 110 | 22.59 | 36.658 | 25.31 |
| 120 | 22.37 | 36.671 | 25.38 |
| 130 | 22.01 | 36.637 | 25.46 |
| 140 | 21.75 | 36.615 | 25.52 |
| 150 | 21.54 | 36.612 | 25.57 |
| 160 | 21.43 | 36.693 | 25.67 |
| 170 | 21.21 | 36.704 | 25.73 |
| 180 | 20.82 | 36.601 | 25.78 |
| 190 | 20.78 | 36.681 | 25.84 |
| 200 | 20.58 | 36.667 | 25.88 |
| 250 | 19.23 | 36.604 | 26.19 |
| 300 | 18.53 | 36.538 | 26.32 |
| 350 | 18.09 | 36.500 | 26.40 |
| 400 | 17.71 | 36.459 | 26.46 |
| 450 | 17.23 | 36.388 | 26.53 |
| 500 | 16.65 | 36.292 | 26.59 |
| 550 | 15.77 | 36.144 | 26.68 |
| 600 | 14.71 | 35.970 | 26.78 |
| 650 | 13.37 | 35.760 | 26.91 |
| 700 | 12.47 | 35.620 | 26.98 |
| 750 | 11.47 | 35.479 | 27.06 |
| 800 | 10.38 | 35.342 | 27.15 |
| 850 | 9.33 | 35.226 | 27.24 |
| 900 | 8.54 | 35.164 | 27.32 |
| 950 | 7.76 | 35.120 | 27.40 |
| 1000 | 7.19 | 35.093 | 27.47 |
| 1500 | 4.23 | 35.002 | 27.76 |
| 2000 | 3.48 | 34.973 | 27.82 |
| 2500 | 2.94 | 34.943 | 27.85 |
| 3000 | 2.55 | 34.920 | 27.88 |
| 3500 | 2.33 | 34.905 | 27.87 |
| 4000 | 2.27 | 34.897 | 27.87 |
| 4500 | 2.22 | 34.886 | 27.86 |
| 4610 | 2.20 | 34.881 | 27.86 |

RES-STACS27-87 CTD 18 RESEARCHER
Date 03 17 87 Latitude 26.486 N
Time 1550 Z Longitude 75.566 W



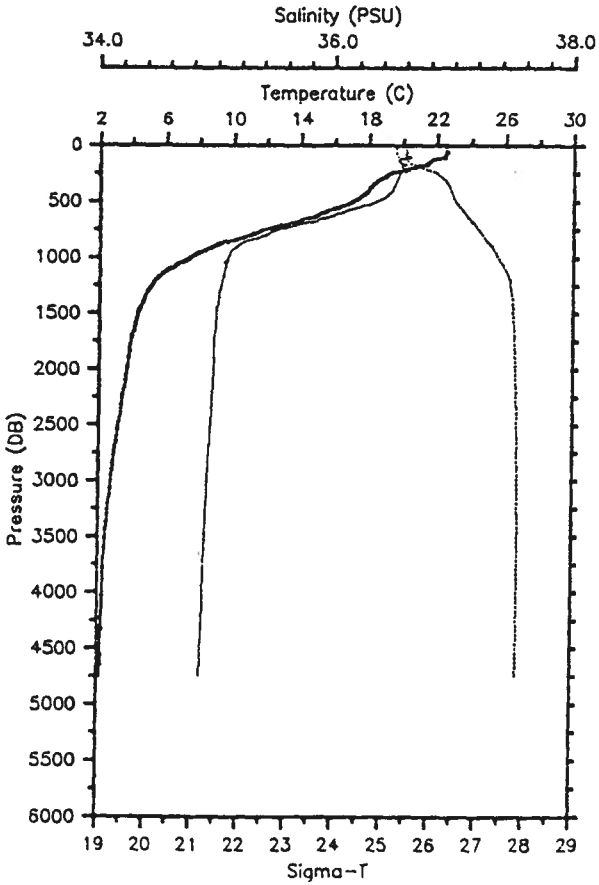

| Prs | Tem | Sal | SigT |
|---|---|---|---|
| 0 | 22.21 | 36.621 | 25.39 |
| 10 | 22.17 | 36.616 | 25.40 |
| 20 | 22.17 | 36.616 | 25.40 |
| 30 | 22.17 | 36.616 | 25.40 |
| 40 | 22.16 | 36.616 | 25.40 |
| 50 | 22.05 | 36.626 | 25.44 |
| 60 | 22.04 | 36.629 | 25.45 |
| 70 | 22.04 | 36.636 | 25.45 |
| 80 | 22.05 | 36.652 | 25.46 |
| 90 | 21.96 | 36.670 | 25.50 |
| 100 | 21.96 | 36.670 | 25.50 |
| 110 | 21.90 | 36.664 | 25.51 |
| 120 | 21.88 | 36.664 | 25.52 |
| 130 | 21.76 | 36.652 | 25.54 |
| 140 | 21.61 | 36.615 | 25.56 |
| 150 | 21.35 | 36.587 | 25.61 |
| 160 | 21.13 | 36.568 | 25.65 |
| 170 | 20.83 | 36.558 | 25.73 |
| 180 | 20.60 | 36.570 | 25.80 |
| 190 | 20.32 | 36.578 | 25.88 |
| 200 | 20.00 | 36.556 | 25.95 |
| 250 | 19.19 | 36.547 | 26.16 |
| 300 | 18.67 | 36.522 | 26.27 |
| 350 | 18.18 | 36.495 | 26.37 |
| 400 | 17.84 | 36.474 | 26.44 |
| 450 | 17.34 | 36.399 | 26.51 |
| 500 | 16.79 | 36.310 | 26.57 |
| 550 | 15.85 | 36.156 | 26.67 |
| 600 | 14.87 | 35.988 | 26.76 |
| 650 | 13.74 | 35.817 | 26.87 |
| 700 | 12.64 | 35.649 | 26.97 |
| 750 | 11.66 | 35.509 | 27.05 |
| 800 | 10.70 | 35.381 | 27.13 |
| 850 | 9.54 | 35.251 | 27.23 |
| 900 | 8.75 | 35.168 | 27.29 |
| 950 | 7.82 | 35.103 | 27.38 |
| 1000 | 7.07 | 35.087 | 27.48 |
| 1500 | 4.30 | 35.003 | 27.76 |
| 2000 | 3.66 | 34.981 | 27.81 |
| 2500 | 3.11 | 34.952 | 27.84 |
| 3000 | 2.64 | 34.926 | 27.86 |
| 3500 | 2.36 | 34.907 | 27.87 |
| 4000 | 2.27 | 34.897 | 27.87 |
| 4500 | 2.25 | 34.890 | 27.86 |
| 4726 | 2.22 | 34.881 | 27.86 |

RES-STACS27-87 CTD 19 RESEARCHER
Date 03 18 87 Latitude 26.461 N
Time 0523 Z Longitude 76.175 W



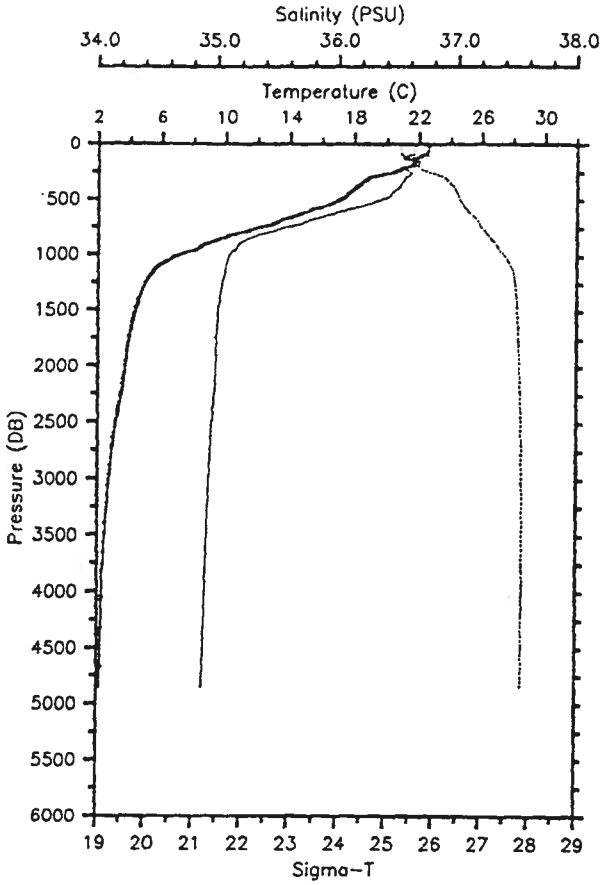

| Prs | Tem | Sal | SigT |
|---|---|---|---|
| 0 | 22.76 | 36.674 | 25.27 |
| 10 | 22.76 | 36.675 | 25.27 |
| 20 | 22.76 | 36.672 | 25.27 |
| 30 | 22.67 | 36.651 | 25.28 |
| 40 | 22.60 | 36.644 | 25.30 |
| 50 | 22.60 | 36.647 | 25.30 |
| 60 | 22.60 | 36.650 | 25.30 |
| 70 | 22.59 | 36.649 | 25.30 |
| 80 | 22.58 | 36.647 | 25.31 |
| 90 | 22.57 | 36.646 | 25.31 |
| 100 | 22.56 | 36.645 | 25.31 |
| 110 | 22.55 | 36.644 | 25.31 |
| 120 | 22.55 | 36.644 | 25.31 |
| 130 | 22.53 | 36.640 | 25.32 |
| 140 | 22.36 | 36.619 | 25.35 |
| 150 | 21.80 | 36.573 | 25.47 |
| 160 | 21.60 | 36.549 | 25.51 |
| 170 | 21.41 | 36.569 | 25.58 |
| 180 | 21.00 | 36.550 | 25.68 |
| 190 | 20.86 | 36.537 | 25.70 |
| 200 | 20.71 | 36.547 | 25.75 |
| 250 | 19.87 | 36.592 | 26.01 |
| 300 | 18.93 | 36.559 | 26.23 |
| 350 | 18.41 | 36.530 | 26.34 |
| 400 | 17.98 | 36.487 | 26.42 |
| 450 | 17.53 | 36.434 | 26.48 |
| 500 | 16.84 | 36.319 | 26.57 |
| 550 | 16.28 | 36.225 | 26.63 |
| 600 | 15.34 | 36.069 | 26.72 |
| 650 | 14.41 | 35.920 | 26.81 |
| 700 | 13.29 | 35.743 | 26.91 |
| 750 | 12.02 | 35.556 | 27.02 |
| 800 | 10.79 | 35.392 | 27.12 |
| 850 | 9.88 | 35.279 | 27.19 |
| 900 | 8.95 | 35.184 | 27.27 |
| 950 | 8.16 | 35.129 | 27.35 |
| 1000 | 7.39 | 35.095 | 27.44 |
| 1500 | 4.36 | 35.005 | 27.75 |
| 2000 | 3.72 | 34.983 | 27.80 |
| 2500 | 3.18 | 34.957 | 27.83 |
| 3000 | 2.77 | 34.932 | 27.85 |
| 3500 | 2.44 | 34.912 | 27.86 |
| 4000 | 2.30 | 34.900 | 27.87 |
| 4500 | 2.27 | 34.892 | 27.86 |
| 4768 | 2.24 | 34.883 | 27.86 |

RES-STACS27-87 CTD 20 RESEARCHER
Date 03 18 87 Latitude 26.493 N
Time 1141 Z Longitude 75.924 W



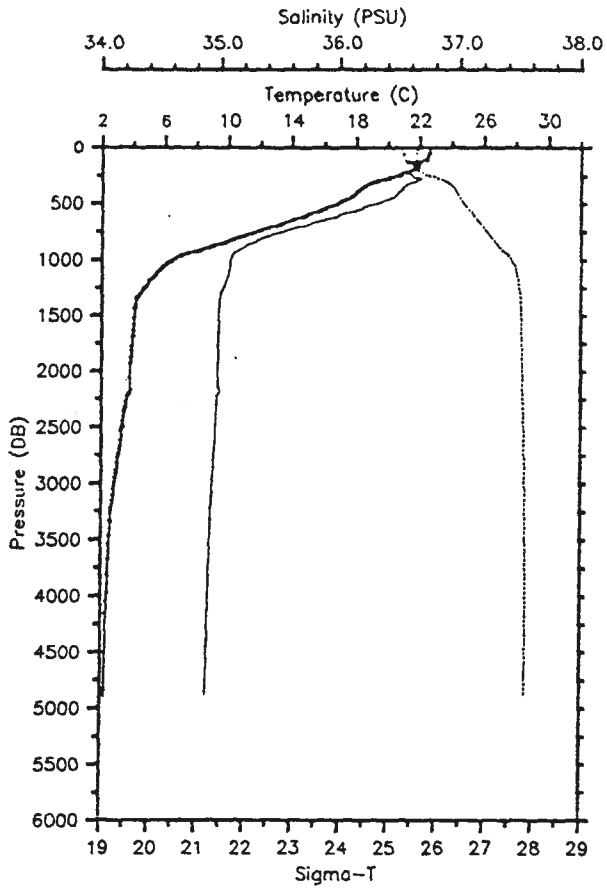

| Prs | Tem | Sal | SigT |
|---|---|---|---|
| 0 | 22.52 | 36.599 | 25.29 |
| 10 | 22.53 | 36.598 | 25.28 |
| 20 | 22.53 | 36.600 | 25.28 |
| 30 | 22.53 | 36.599 | 25.28 |
| 40 | 22.53 | 36.599 | 25.28 |
| 50 | 22.53 | 36.599 | 25.28 |
| 60 | 22.54 | 36.600 | 25.28 |
| 70 | 22.54 | 36.600 | 25.28 |
| 80 | 22.53 | 36.598 | 25.28 |
| 90 | 22.50 | 36.594 | 25.29 |
| 100 | 22.47 | 36.605 | 25.31 |
| 110 | 22.40 | 36.626 | 25.34 |
| 120 | 21.99 | 36.568 | 25.41 |
| 130 | 21.68 | 36.530 | 25.47 |
| 140 | 21.56 | 36.531 | 25.51 |
| 150 | 21.48 | 36.543 | 25.54 |
| 160 | 21.42 | 36.549 | 25.56 |
| 170 | 21.35 | 36.583 | 25.60 |
| 180 | 21.04 | 36.567 | 25.68 |
| 190 | 20.82 | 36.546 | 25.72 |
| 200 | 20.60 | 36.560 | 25.79 |
| 250 | 19.27 | 36.546 | 26.14 |
| 300 | 18.67 | 36.524 | 26.27 |
| 350 | 18.19 | 36.500 | 26.38 |
| 400 | 17.94 | 36.482 | 26.42 |
| 450 | 17.57 | 36.434 | 26.48 |
| 500 | 17.04 | 36.347 | 26.54 |
| 550 | 16.25 | 36.217 | 26.63 |
| 600 | 15.30 | 36.062 | 26.72 |
| 650 | 14.48 | 35.927 | 26.80 |
| 700 | 13.14 | 35.722 | 26.92 |
| 750 | 11.90 | 35.532 | 27.02 |
| 800 | 11.04 | 35.429 | 27.10 |
| 850 | 9.93 | 35.291 | 27.19 |
| 900 | 8.74 | 35.174 | 27.30 |
| 950 | 8.10 | 35.120 | 27.35 |
| 1000 | 7.42 | 35.098 | 27.44 |
| 1500 | 4.33 | 35.003 | 27.75 |
| 2000 | 3.70 | 34.982 | 27.80 |
| 2500 | 3.18 | 34.955 | 27.83 |
| 3000 | 2.77 | 34.932 | 27.85 |
| 3500 | 2.46 | 34.913 | 27.86 |
| 4000 | 2.33 | 34.901 | 27.87 |
| 4500 | 2.23 | 34.887 | 27.86 |
| 4744 | 2.21 | 34.880 | 27.86 |

RES-STACS27-87 CTD 21 RESEARCHER
Date 03 18 87 Latitude 26.507 N
Time 2117 Z Longitude 76.409 W



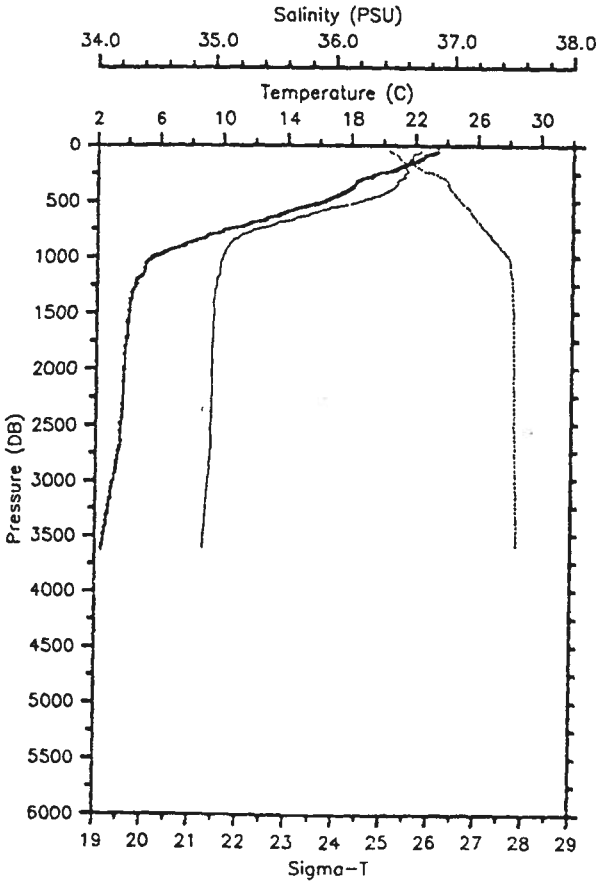

| Prs | Tem | Sal | SigT |
|---|---|---|---|
| 0 | 22.68 | 36.643 | 25.27 |
| 10 | 22.66 | 36.643 | 25.28 |
| 20 | 22.60 | 36.635 | 25.29 |
| 30 | 22.58 | 36.634 | 25.29 |
| 40 | 22.58 | 36.634 | 25.30 |
| 50 | 22.58 | 36.635 | 25.30 |
| 60 | 22.58 | 36.634 | 25.30 |
| 70 | 22.57 | 36.633 | 25.30 |
| 80 | 22.57 | 36.632 | 25.30 |
| 90 | 22.56 | 36.630 | 25.30 |
| 100 | 22.38 | 36.598 | 25.32 |
| 110 | 22.13 | 36.565 | 25.37 |
| 120 | 21.94 | 36.557 | 25.42 |
| 130 | 21.71 | 36.545 | 25.47 |
| 140 | 21.60 | 36.546 | 25.51 |
| 150 | 21.78 | 36.659 | 25.54 |
| 160 | 21.74 | 36.667 | 25.56 |
| 170 | 21.67 | 36.670 | 25.58 |
| 180 | 21.66 | 36.669 | 25.58 |
| 190 | 21.61 | 36.660 | 25.59 |
| 200 | 21.36 | 36.609 | 25.62 |
| 250 | 20.54 | 36.592 | 25.81 |
| 300 | 18.97 | 36.555 | 26.12 |
| 350 | 18.45 | 36.528 | 26.23 |
| 400 | 17.99 | 36.493 | 26.42 |
| 450 | 17.57 | 36.435 | 26.48 |
| 500 | 17.06 | 36.355 | 26.54 |
| 550 | 16.37 | 36.235 | 26.61 |
| 600 | 15.34 | 36.062 | 26.72 |
| 650 | 14.24 | 35.893 | 26.83 |
| 700 | 13.22 | 35.736 | 26.92 |
| 750 | 12.27 | 35.594 | 27.00 |
| 800 | 11.05 | 35.434 | 27.11 |
| 850 | 9.80 | 35.275 | 27.20 |
| 900 | 8.76 | 35.171 | 27.29 |
| 950 | 8.14 | 35.149 | 27.37 |
| 1000 | 7.15 | 35.103 | 27.48 |
| 1500 | 4.36 | 35.004 | 27.75 |
| 2000 | 3.74 | 34.986 | 27.80 |
| 2500 | 3.17 | 34.953 | 27.83 |
| 3000 | 2.76 | 34.932 | 27.85 |
| 3500 | 2.50 | 34.915 | 27.86 |
| 4000 | 2.33 | 34.901 | 27.87 |
| 4500 | 2.28 | 34.893 | 27.86 |
| 4848 | 2.23 | 34.881 | 27.86 |

RES-STACS27-87 CTD 22 RESEARCHER
Date 03 19 87 Latitude 26.529 N
Time 0223 Z Longitude 76.539 W



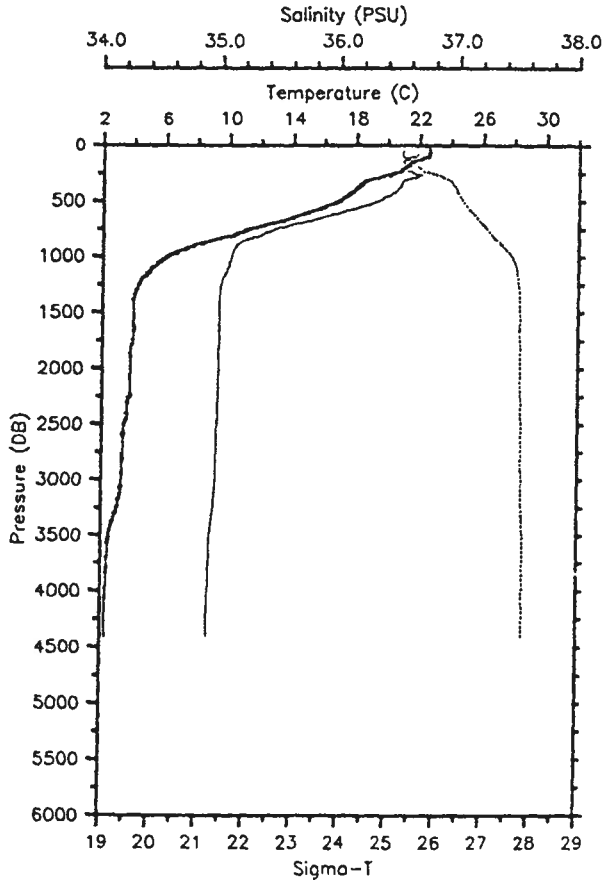

| Prs | Tem | Sal | SigT |
|---|---|---|---|
| 0 | 22.61 | 36.644 | 25.30 |
| 10 | 22.61 | 36.643 | 25.29 |
| 20 | 22.62 | 36.643 | 25.29 |
| 30 | 22.61 | 36.640 | 25.29 |
| 40 | 22.56 | 36.633 | 25.30 |
| 50 | 22.54 | 36.628 | 25.30 |
| 60 | 22.52 | 36.628 | 25.31 |
| 70 | 22.51 | 36.629 | 25.31 |
| 80 | 22.50 | 36.628 | 25.32 |
| 90 | 22.47 | 36.624 | 25.32 |
| 100 | 22.47 | 36.633 | 25.33 |
| 110 | 22.41 | 36.643 | 25.35 |
| 120 | 22.09 | 36.591 | 25.40 |
| 130 | 21.98 | 36.607 | 25.45 |
| 140 | 21.78 | 36.587 | 25.48 |
| 150 | 21.83 | 36.657 | 25.53 |
| 160 | 21.79 | 36.666 | 25.54 |
| 170 | 21.71 | 36.663 | 25.57 |
| 180 | 21.66 | 36.667 | 25.58 |
| 190 | 21.63 | 36.664 | 25.59 |
| 200 | 21.52 | 36.641 | 25.60 |
| 250 | 20.63 | 36.600 | 25.81 |
| 300 | 19.32 | 36.631 | 26.19 |
| 350 | 18.42 | 36.528 | 26.34 |
| 400 | 17.98 | 36.488 | 26.42 |
| 450 | 17.55 | 36.434 | 26.48 |
| 500 | 16.81 | 36.315 | 26.57 |
| 550 | 15.95 | 36.169 | 26.66 |
| 600 | 14.90 | 35.998 | 26.76 |
| 650 | 13.89 | 35.839 | 26.86 |
| 700 | 13.02 | 35.707 | 26.94 |
| 750 | 11.71 | 35.519 | 27.05 |
| 800 | 10.66 | 35.381 | 27.13 |
| 850 | 9.65 | 35.268 | 27.22 |
| 900 | 8.56 | 35.179 | 27.33 |
| 950 | 7.22 | 35.103 | 27.47 |
| 1000 | 6.48 | 35.083 | 27.56 |
| 1500 | 4.10 | 34.987 | 27.77 |
| 2000 | 3.82 | 34.980 | 27.79 |
| 2500 | 3.33 | 34.960 | 27.82 |
| 3000 | 2.88 | 34.937 | 27.85 |
| 3500 | 2.55 | 34.918 | 27.86 |
| 4000 | 2.41 | 34.907 | 27.86 |
| 4500 | 2.31 | 34.896 | 27.86 |
| 4878 | 2.25 | 34.882 | 27.86 |

RES-STACS27-87 CTD 23 RESEARCHER
Date 03 19 87 Latitude 26.539 N
Time 0848 Z Longitude 76.761 W



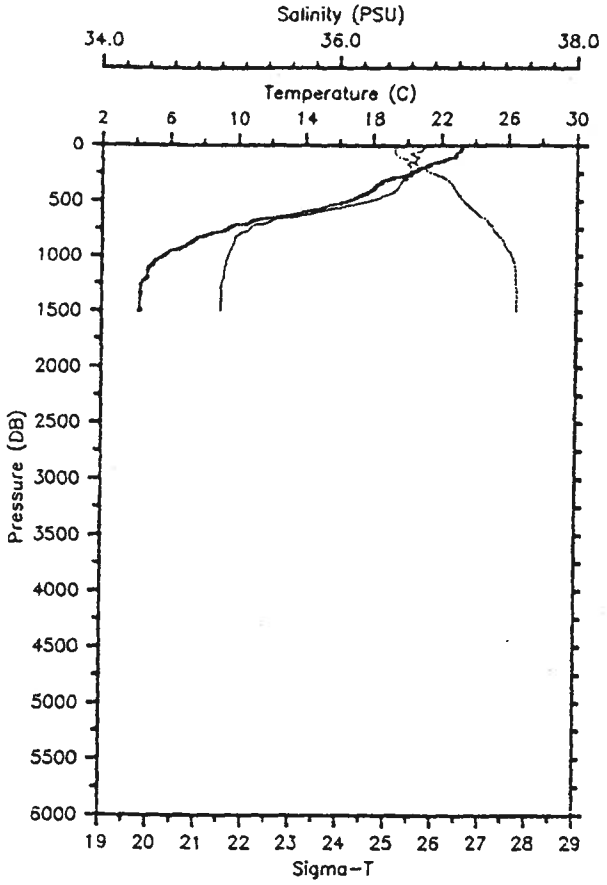

| Prs | Tem | Sal | SigT |
|---|---|---|---|
| 0 | 23.38 | 36.704 | 25.12 |
| 10 | 23.38 | 36.704 | 25.12 |
| 20 | 23.39 | 36.702 | 25.11 |
| 30 | 23.39 | 36.703 | 25.11 |
| 40 | 23.39 | 36.703 | 25.11 |
| 50 | 23.38 | 36.704 | 25.12 |
| 60 | 23.31 | 36.711 | 25.14 |
| 70 | 23.15 | 36.698 | 25.18 |
| 80 | 22.75 | 36.660 | 25.27 |
| 90 | 22.58 | 36.640 | 25.30 |
| 100 | 22.56 | 36.644 | 25.31 |
| 110 | 22.50 | 36.643 | 25.32 |
| 120 | 22.45 | 36.639 | 25.34 |
| 130 | 22.35 | 36.648 | 25.37 |
| 140 | 22.15 | 36.619 | 25.41 |
| 150 | 22.08 | 36.652 | 25.45 |
| 160 | 21.88 | 36.619 | 25.48 |
| 170 | 21.55 | 36.608 | 25.57 |
| 180 | 21.17 | 36.580 | 25.65 |
| 190 | 21.03 | 36.571 | 25.68 |
| 200 | 20.89 | 36.587 | 25.73 |
| 250 | 19.66 | 36.589 | 26.07 |
| 300 | 18.72 | 36.554 | 26.28 |
| 350 | 18.22 | 36.509 | 26.37 |
| 400 | 17.78 | 36.462 | 26.45 |
| 450 | 17.07 | 36.360 | 26.54 |
| 500 | 16.25 | 36.217 | 26.63 |
| 550 | 15.06 | 36.021 | 26.75 |
| 600 | 13.90 | 35.843 | 26.86 |
| 650 | 12.79 | 35.671 | 26.96 |
| 700 | 11.70 | 35.516 | 27.05 |
| 750 | 10.50 | 35.363 | 27.15 |
| 800 | 9.25 | 35.226 | 27.25 |
| 850 | 8.34 | 35.154 | 27.34 |
| 900 | 7.55 | 35.119 | 27.43 |
| 950 | 6.43 | 35.085 | 27.56 |
| 1000 | 5.58 | 35.063 | 27.66 |
| 1500 | 4.10 | 34.992 | 27.77 |
| 2000 | 3.81 | 34.980 | 27.79 |
| 2500 | 3.63 | 34.973 | 27.80 |
| 3000 | 3.13 | 34.950 | 27.83 |
| 3500 | 2.56 | 34.918 | 27.86 |
| 3606 | 2.42 | 34.910 | 27.87 |

RES-STACS27-87 CTD 24 RESEARCHER
Date 03 19 87 Latitude 26.610 N
Time 1359 Z Longitude 76.656 W



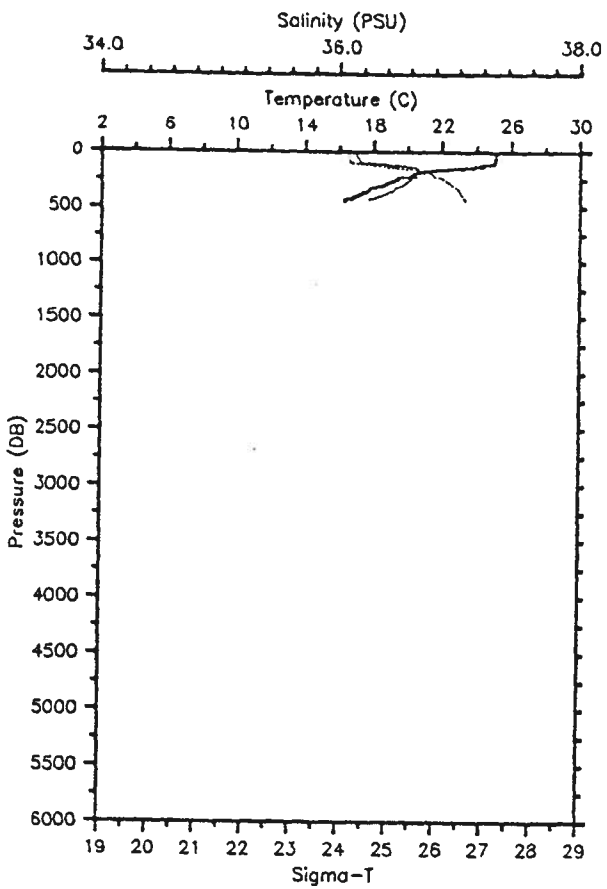

| Prs | Tem | Sal | SigT |
|---|---|---|---|
| 0 | 22.54 | 36.644 | 25.32 |
| 10 | 22.55 | 36.643 | 25.31 |
| 20 | 22.55 | 36.643 | 25.31 |
| 30 | 22.55 | 36.643 | 25.31 |
| 40 | 22.55 | 36.644 | 25.31 |
| 50 | 22.56 | 36.644 | 25.31 |
| 60 | 22.56 | 36.643 | 25.31 |
| 70 | 22.55 | 36.640 | 25.31 |
| 80 | 22.55 | 36.639 | 25.31 |
| 90 | 22.55 | 36.636 | 25.31 |
| 100 | 22.53 | 36.632 | 25.31 |
| 110 | 22.29 | 36.566 | 25.33 |
| 120 | 22.09 | 36.562 | 25.38 |
| 130 | 22.01 | 36.574 | 25.41 |
| 140 | 21.65 | 36.537 | 25.49 |
| 150 | 21.51 | 36.529 | 25.52 |
| 160 | 21.42 | 36.532 | 25.55 |
| 170 | 21.30 | 36.531 | 25.58 |
| 180 | 21.30 | 36.552 | 25.59 |
| 190 | 21.29 | 36.593 | 25.63 |
| 200 | 21.06 | 36.549 | 25.66 |
| 250 | 20.32 | 36.607 | 25.90 |
| 300 | 19.01 | 36.585 | 26.23 |
| 350 | 18.28 | 36.508 | 26.36 |
| 400 | 17.89 | 36.476 | 26.43 |
| 450 | 17.45 | 36.412 | 26.49 |
| 500 | 16.82 | 36.316 | 26.57 |
| 550 | 15.98 | 36.176 | 26.66 |
| 600 | 14.96 | 36.007 | 26.76 |
| 650 | 13.96 | 35.849 | 26.85 |
| 700 | 12.65 | 35.648 | 26.97 |
| 750 | 11.31 | 35.463 | 27.08 |
| 800 | 10.35 | 35.344 | 27.16 |
| 850 | 9.08 | 35.216 | 27.28 |
| 900 | 7.78 | 35.128 | 27.41 |
| 950 | 6.76 | 35.097 | 27.53 |
| 1000 | 6.06 | 35.079 | 27.61 |
| 1500 | 3.96 | 34.984 | 27.78 |
| 2000 | 3.79 | 34.980 | 27.79 |
| 2500 | 3.43 | 34.967 | 27.82 |
| 3000 | 3.28 | 34.958 | 27.82 |
| 3500 | 2.51 | 34.916 | 27.86 |
| 4000 | 2.34 | 34.902 | 27.86 |
| 4400 | 2.29 | 34.895 | 27.86 |

RES-STACS27-87 CTD 26 RESEARCHER
Date 03 19 87 Latitude 26.587 N
Time 2125 Z Longitude 76.841 W



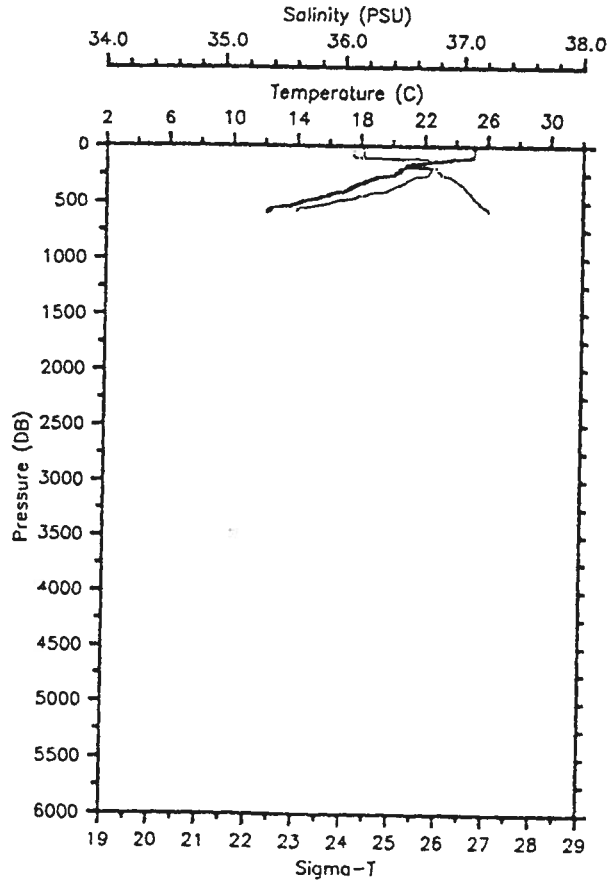

| Prs | Tem | Sal | SigT |
|---|---|---|---|
| 0 | 23.25 | 36.716 | 25.16 |
| 10 | 23.25 | 36.717 | 25.16 |
| 20 | 23.24 | 36.714 | 25.17 |
| 30 | 23.22 | 36.709 | 25.17 |
| 40 | 23.17 | 36.698 | 25.17 |
| 50 | 23.15 | 36.695 | 25.18 |
| 60 | 23.01 | 36.649 | 25.18 |
| 70 | 22.91 | 36.613 | 25.19 |
| 80 | 22.84 | 36.593 | 25.19 |
| 90 | 22.87 | 36.629 | 25.21 |
| 100 | 22.81 | 36.630 | 25.23 |
| 110 | 22.80 | 36.654 | 25.30 |
| 120 | 22.40 | 36.665 | 25.37 |
| 130 | 22.17 | 36.650 | 25.42 |
| 140 | 22.08 | 36.644 | 25.45 |
| 150 | 21.80 | 36.624 | 25.51 |
| 160 | 21.58 | 36.592 | 25.55 |
| 170 | 21.36 | 36.573 | 25.59 |
| 180 | 21.22 | 36.587 | 25.64 |
| 190 | 21.06 | 36.595 | 25.69 |
| 200 | 20.83 | 36.595 | 25.76 |
| 250 | 20.16 | 36.606 | 25.95 |
| 300 | 18.93 | 36.551 | 26.23 |
| 350 | 18.21 | 36.503 | 26.37 |
| 400 | 17.88 | 36.480 | 26.44 |
| 450 | 17.21 | 36.382 | 26.53 |
| 500 | 16.44 | 36.257 | 26.61 |
| 550 | 15.19 | 36.050 | 26.74 |
| 600 | 13.74 | 35.819 | 26.88 |
| 650 | 12.06 | 35.563 | 27.02 |
| 700 | 10.89 | 35.398 | 27.14 |
| 750 | 9.45 | 35.253 | 27.24 |
| 800 | 8.44 | 35.168 | 27.34 |
| 850 | 7.38 | 35.115 | 27.46 |
| 900 | 6.98 | 35.104 | 27.50 |
| 950 | 6.29 | 35.087 | 27.58 |
| 1000 | 5.59 | 35.068 | 27.66 |
| 1496 | 4.27 | 35.004 | 27.76 |

RES-STACS27-87 CTD 27 RESEARCHER
Date 03 21 87 Latitude 27.016 N
Time 0249 Z Longitude 79.201 W



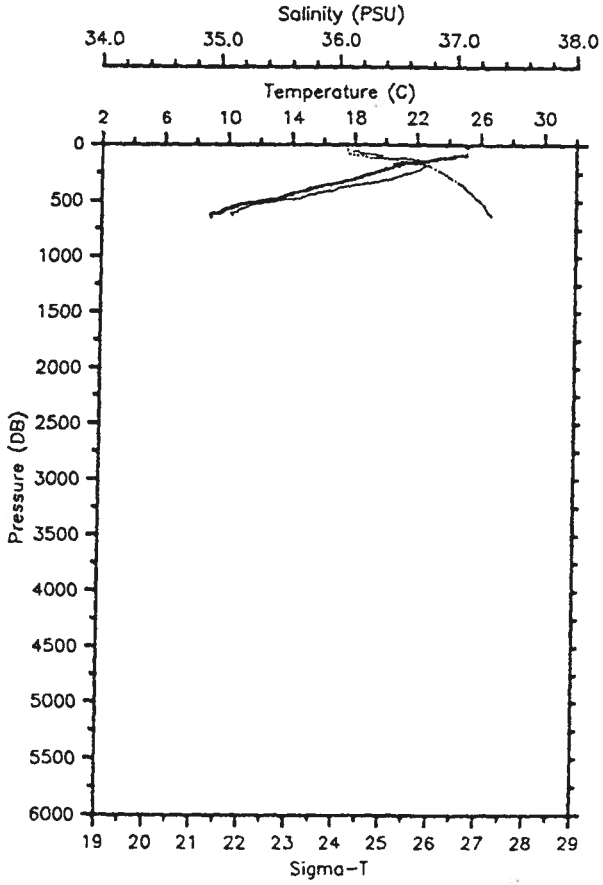

| Prs | Tem | Sal | SigT |
|---|---|---|---|
| 0 | 25.14 | 36.147 | 24.17 |
| 10 | 25.14 | 36.148 | 24.17 |
| 20 | 25.11 | 36.138 | 24.17 |
| 30 | 25.10 | 36.137 | 24.17 |
| 40 | 25.09 | 36.135 | 24.17 |
| 50 | 25.10 | 36.145 | 24.18 |
| 60 | 25.09 | 36.154 | 24.19 |
| 70 | 25.07 | 36.158 | 24.20 |
| 80 | 25.07 | 36.162 | 24.20 |
| 90 | 25.04 | 36.166 | 24.21 |
| 100 | 25.01 | 36.177 | 24.23 |
| 110 | 24.79 | 36.308 | 24.40 |
| 120 | 24.30 | 36.413 | 24.62 |
| 130 | 24.29 | 36.580 | 24.75 |
| 140 | 23.69 | 36.644 | 24.98 |
| 150 | 23.07 | 36.641 | 25.16 |
| 160 | 21.71 | 36.641 | 25.55 |
| 170 | 21.31 | 36.562 | 25.68 |
| 180 | 20.83 | 36.673 | 25.82 |
| 190 | 20.38 | 36.624 | 25.90 |
| 200 | 20.26 | 36.626 | 25.94 |
| 250 | 19.21 | 36.590 | 26.18 |
| 300 | 18.42 | 36.528 | 26.34 |
| 350 | 17.58 | 36.445 | 26.48 |
| 400 | 16.81 | 36.322 | 26.58 |
| 440 | 16.25 | 36.230 | 26.64 |

RES-STACS27-87 CTD 28 RESEARCHER
Date 03 21 87 Latitude 27.009 N
Time 0357 Z Longitude 79.286 W




| Prs | Tem | Sal | SigT |
|---|---|---|---|
| 0 | 25.23 | 36.159 | 24.15 |
| 10 | 25.22 | 36.158 | 24.15 |
| 20 | 25.19 | 36.150 | 24.15 |
| 30 | 25.17 | 36.151 | 24.16 |
| 40 | 25.16 | 36.152 | 24.17 |
| 50 | 25.16 | 36.153 | 24.17 |
| 60 | 25.16 | 36.153 | 24.17 |
| 70 | 25.16 | 36.155 | 24.17 |
| 80 | 25.16 | 36.156 | 24.17 |
| 90 | 25.14 | 36.164 | 24.18 |
| 100 | 25.10 | 36.171 | 24.20 |
| 110 | 24.84 | 36.392 | 24.44 |
| 120 | 23.72 | 36.703 | 25.02 |
| 130 | 23.08 | 36.699 | 25.20 |
| 140 | 22.66 | 36.696 | 25.32 |
| 150 | 22.22 | 36.688 | 25.44 |
| 160 | 21.50 | 36.503 | 25.50 |
| 170 | 21.25 | 36.513 | 25.58 |
| 180 | 20.84 | 36.501 | 25.68 |
| 190 | 20.97 | 36.690 | 25.79 |
| 200 | 20.51 | 36.668 | 25.90 |
| 250 | 20.22 | 36.702 | 26.00 |
| 300 | 18.58 | 36.542 | 26.31 |
| 350 | 17.71 | 36.465 | 26.47 |
| 400 | 16.96 | 36.349 | 26.56 |
| 450 | 15.52 | 36.107 | 26.71 |
| 500 | 14.30 | 35.908 | 26.83 |
| 550 | 12.76 | 35.676 | 26.97 |
| 590 | 12.13 | 35.588 | 27.02 |

RES-STACS27-87 CTD 30 RESEARCHER
Date 03 21 87 Latitude 27.045 N
Time 0556 Z Longitude 79.394 W

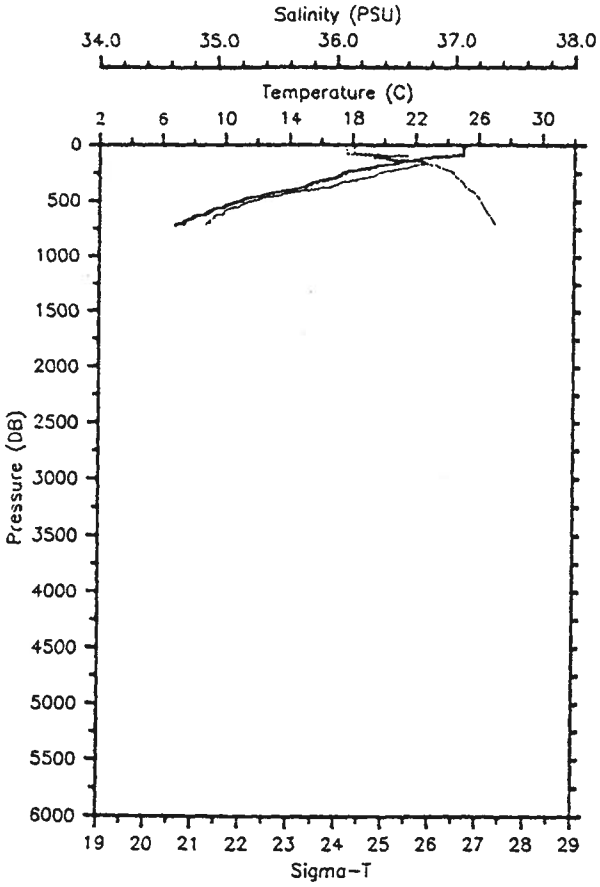



| Prs | Tem | Sal | SigT |
|---|---|---|---|
| 0 | 25.13 | 36.167 | 24.19 |
| 10 | 25.16 | 36.161 | 24.17 |
| 20 | 25.16 | 36.161 | 24.17 |
| 30 | 25.12 | 36.163 | 24.19 |
| 40 | 25.11 | 36.164 | 24.19 |
| 50 | 25.11 | 36.164 | 24.19 |
| 60 | 25.10 | 36.116 | 24.16 |
| 70 | 25.11 | 36.179 | 24.20 |
| 80 | 25.12 | 36.186 | 24.20 |
| 90 | 25.09 | 36.325 | 24.32 |
| 100 | 24.49 | 36.342 | 24.51 |
| 110 | 24.19 | 36.332 | 24.60 |
| 120 | 23.75 | 36.441 | 24.81 |
| 130 | 23.11 | 36.645 | 25.15 |
| 140 | 22.77 | 36.671 | 25.27 |
| 150 | 22.32 | 36.678 | 25.41 |
| 160 | 21.04 | 36.491 | 25.62 |
| 170 | 21.11 | 36.712 | 25.77 |
| 180 | 21.01 | 36.773 | 25.84 |
| 190 | 20.77 | 36.745 | 25.89 |
| 200 | 20.47 | 36.738 | 25.96 |
| 250 | 19.29 | 36.619 | 26.19 |
| 300 | 18.04 | 36.460 | 26.38 |
| 350 | 16.48 | 36.210 | 26.57 |
| 400 | 15.07 | 35.976 | 26.71 |
| 450 | 13.62 | 35.738 | 26.84 |
| 500 | 11.94 | 35.476 | 26.97 |
| 550 | 10.35 | 35.241 | 27.08 |
| 600 | 9.56 | 35.137 | 27.13 |
| 636 | 8.90 | 35.104 | 27.22 |

RES-STACS27-87 CTD 31 RESEARCHER

Date 03 21 87 Latitude 27.023 N

Time 0716 Z Longitude 79.508 W

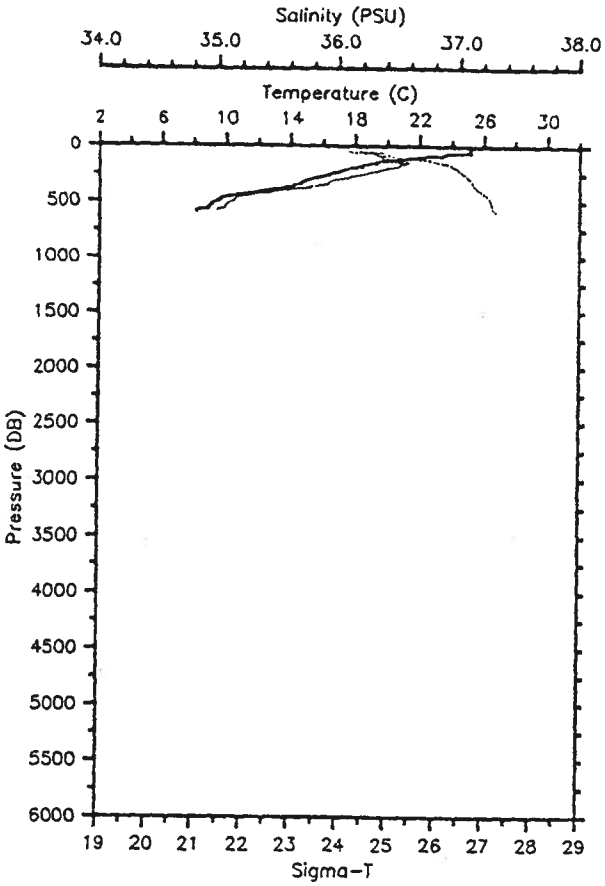



| Prs | Tem | Sal | SigT |
|---|---|---|---|
| 0 | 25.08 | 36.154 | 24.19 |
| 10 | 25.10 | 36.153 | 24.18 |
| 20 | 25.10 | 36.152 | 24.18 |
| 30 | 25.05 | 36.150 | 24.20 |
| 40 | 25.04 | 36.151 | 24.20 |
| 50 | 25.03 | 36.152 | 24.20 |
| 60 | 25.03 | 36.152 | 24.21 |
| 70 | 25.02 | 36.153 | 24.21 |
| 80 | 25.02 | 36.158 | 24.21 |
| 90 | 24.93 | 36.441 | 24.45 |
| 100 | 24.11 | 36.540 | 24.78 |
| 110 | 22.95 | 36.390 | 25.00 |
| 120 | 22.29 | 36.326 | 25.15 |
| 130 | 22.22 | 36.494 | 25.29 |
| 140 | 21.15 | 36.420 | 25.54 |
| 150 | 21.24 | 36.734 | 25.75 |
| 160 | 20.89 | 36.756 | 25.86 |
| 170 | 20.67 | 36.753 | 25.92 |
| 180 | 20.02 | 36.697 | 26.05 |
| 190 | 19.56 | 36.646 | 26.14 |
| 200 | 19.34 | 36.618 | 26.17 |
| 250 | 17.50 | 36.381 | 26.46 |
| 300 | 16.59 | 36.229 | 26.56 |
| 350 | 15.29 | 36.017 | 26.69 |
| 400 | 13.93 | 35.789 | 26.81 |
| 450 | 12.23 | 35.525 | 26.95 |
| 500 | 10.80 | 35.300 | 27.05 |
| 550 | 9.94 | 35.186 | 27.11 |
| 600 | 8.93 | 35.081 | 27.18 |
| 650 | 7.94 | 34.978 | 27.27 |
| 700 | 7.33 | 34.941 | 27.33 |
| 714 | 6.86 | 34.902 | 27.36 |

RES-STACS27-87 CTD 32 RESEARCHER

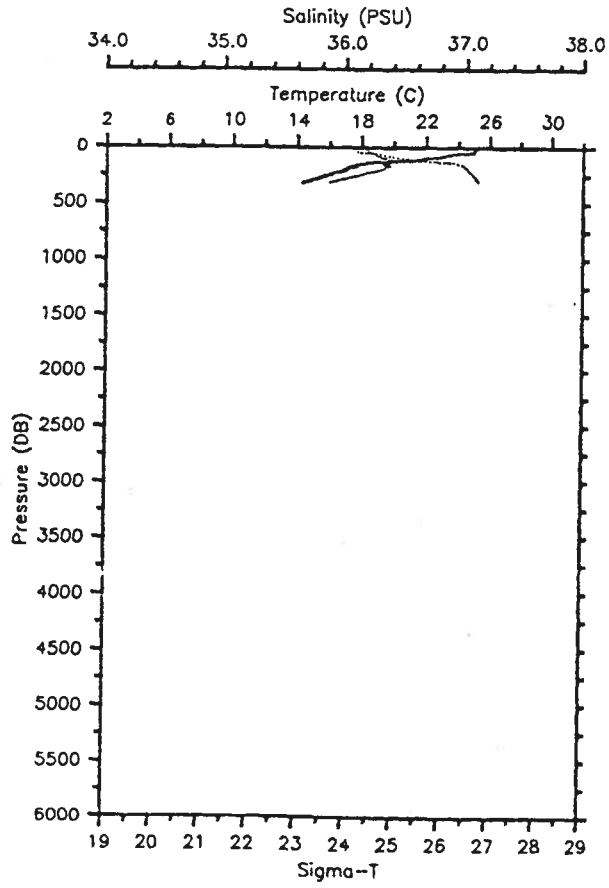
Date 03 21 87 Latitude 27.037 N

Time 0900 Z Longitude 79.625 W



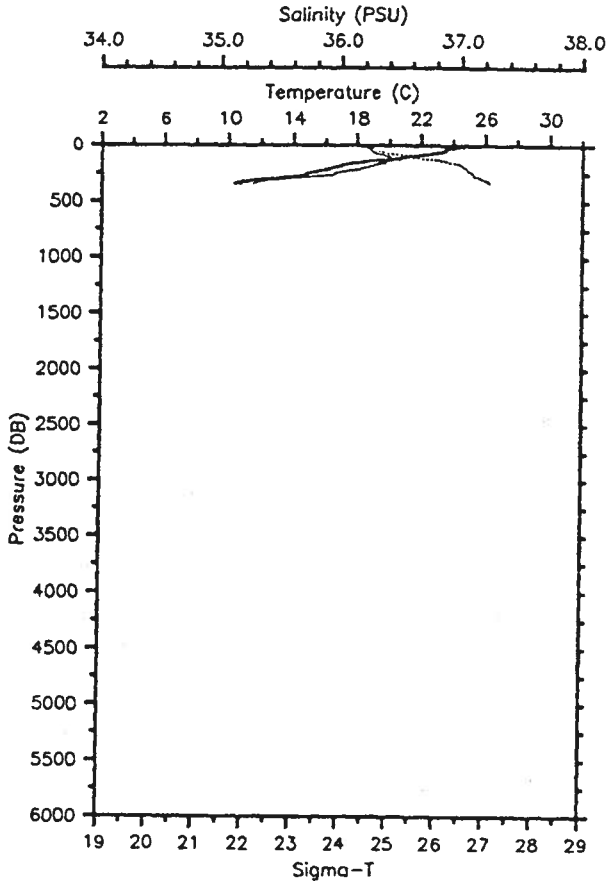

| Prs | Tem | Sal | SigT |
|---|---|---|---|
| 0 | 25.13 | 36.152 | 24.17 |
| 10 | 25.14 | 36.180 | 24.19 |
| 20 | 25.15 | 36.179 | 24.19 |
| 30 | 25.15 | 36.178 | 24.19 |
| 40 | 25.15 | 36.179 | 24.19 |
| 50 | 25.12 | 36.175 | 24.19 |
| 60 | 24.81 | 36.372 | 24.44 |
| 70 | 23.62 | 36.304 | 24.74 |
| 80 | 23.43 | 36.319 | 24.81 |
| 90 | 22.47 | 36.345 | 25.11 |
| [illegible] | 21.86 | 36.342 | 25.28 |
| [illegible] | 21.20 | 36.367 | 25.48 |
| 120 | 20.80 | 36.522 | 25.71 |
| 130 | 19.69 | 36.344 | 25.87 |
| 140 | 19.38 | 36.363 | 25.97 |
| 150 | 18.31 | 36.567 | 26.14 |
| 160 | 18.90 | 36.550 | 26.23 |
| 170 | 18.47 | 36.509 | 26.31 |
| 180 | 18.35 | 36.501 | 26.34 |
| 190 | 18.06 | 36.467 | 26.38 |
| 200 | 17.63 | 36.403 | 26.44 |
| 250 | 16.41 | 36.208 | 26.58 |
| 300 | 15.12 | 35.988 | 26.71 |
| 350 | 14.21 | 35.833 | 26.79 |
| 400 | 12.54 | 35.565 | 26.92 |
| 450 | 10.32 | 35.237 | 27.08 |
| 500 | 9.41 | 35.118 | 27.14 |
| 550 | 8.93 | 35.060 | 27.18 |
| 584 | 8.17 | 34.994 | 27.24 |

RES-STACS27-87 CTD 33 RESEARCHER
Date 03 21 87 Latitude 27.022 N
Time 1021 Z Longitude 79.685 W



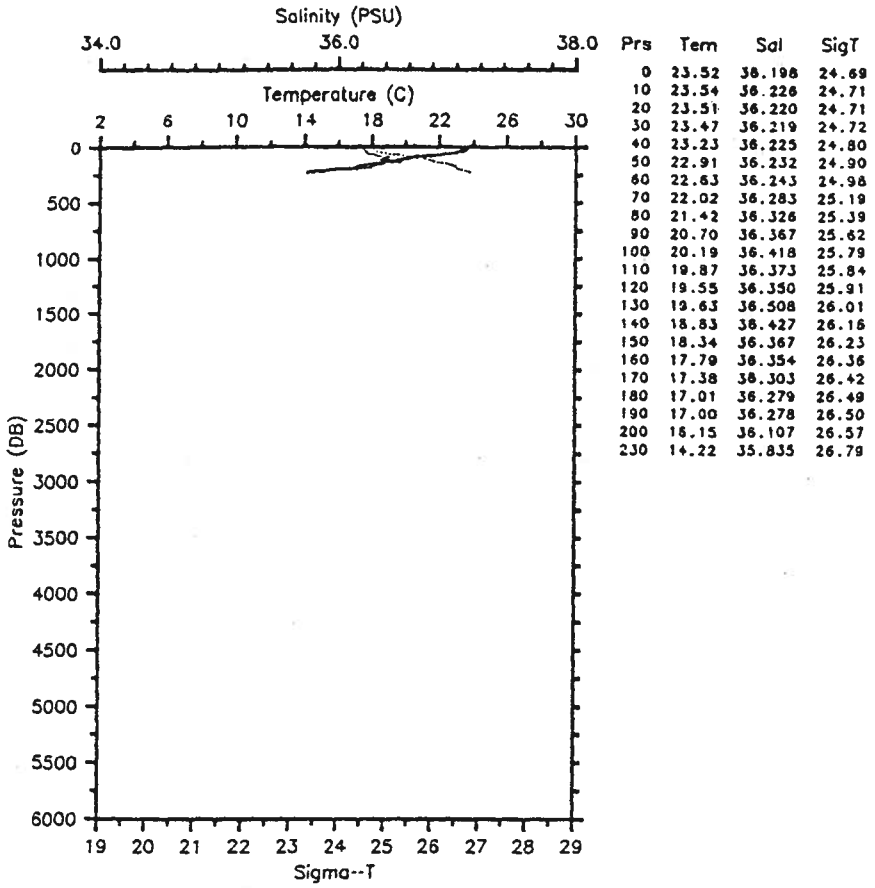

| Prs | Tem | Sal | SigT |
|---|---|---|---|
| 0 | 25.03 | 36.190 | 24.23 |
| 10 | 25.05 | 36.187 | 24.22 |
| 20 | 25.06 | 36.186 | 24.22 |
| 30 | 25.05 | 36.186 | 24.23 |
| 40 | 24.97 | 36.186 | 24.25 |
| 50 | 24.61 | 36.218 | 24.38 |
| 60 | 23.85 | 36.259 | 24.64 |
| 70 | 23.31 | 36.251 | 24.80 |
| 80 | 23.02 | 36.263 | 24.89 |
| 90 | 22.71 | 36.299 | 25.01 |
| 100 | 22.00 | 36.345 | 25.24 |
| 110 | 21.67 | 36.362 | 25.35 |
| 120 | 20.68 | 36.402 | 25.65 |
| 130 | 19.26 | 36.334 | 25.97 |
| 140 | 18.34 | 36.376 | 26.24 |
| 150 | 17.93 | 36.324 | 26.30 |
| 160 | 17.65 | 36.354 | 26.40 |
| 170 | 17.47 | 36.368 | 26.45 |
| 180 | 17.17 | 36.319 | 26.48 |
| 190 | 17.07 | 36.316 | 26.51 |
| 200 | 16.91 | 36.292 | 26.53 |
| 250 | 15.76 | 36.100 | 26.65 |
| 300 | 14.74 | 35.926 | 26.74 |
| 314 | 14.35 | 35.860 | 26.78 |

RES-STACS27-87 CTD 34 RESEARCHER
Date 03 21 87 Latitude 27.017 N
Time 1126 Z Longitude 79.802 W



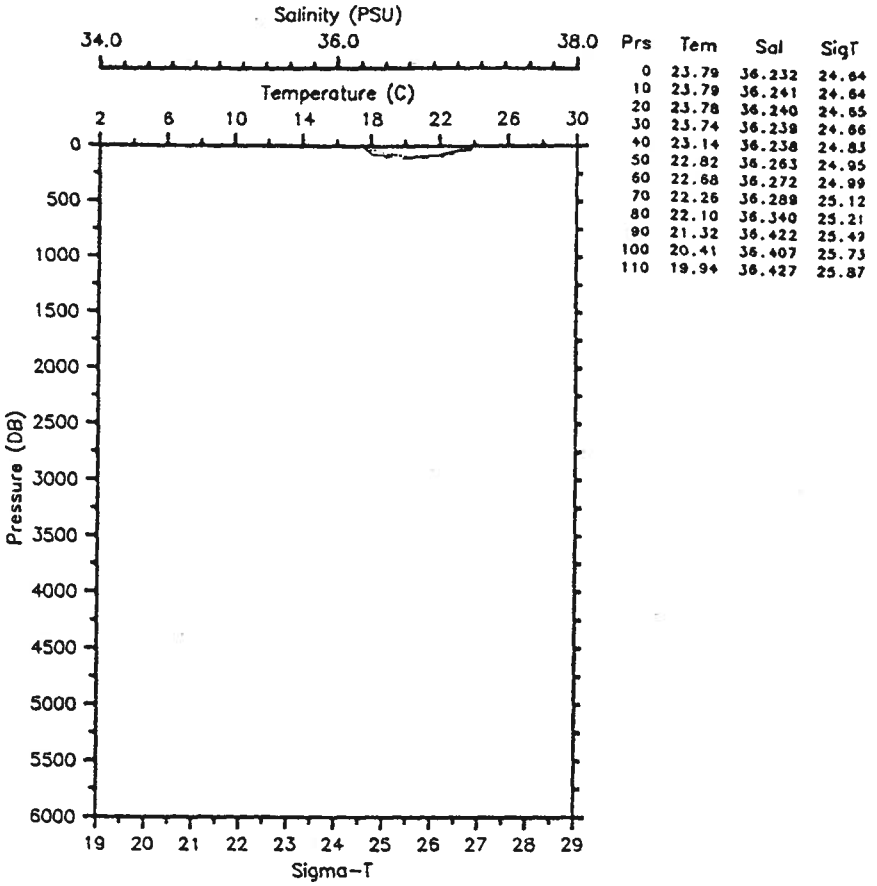

| Prs | Tem | Sal | SigT |
|---|---|---|---|
| 0 | 24.57 | 36.190 | 24.37 |
| 10 | 24.63 | 36.201 | 24.36 |
| 20 | 24.31 | 36.205 | 24.46 |
| 30 | 23.76 | 36.225 | 24.64 |
| 40 | 23.53 | 36.241 | 24.72 |
| 50 | 23.37 | 36.247 | 24.77 |
| 60 | 23.28 | 36.253 | 24.80 |
| 70 | 22.95 | 36.279 | 24.92 |
| 80 | 22.26 | 36.305 | 25.14 |
| 90 | 21.80 | 36.357 | 25.31 |
| 100 | 21.34 | 36.402 | 25.47 |
| 110 | 20.91 | 36.397 | 25.58 |
| 120 | 20.65 | 36.478 | 25.72 |
| 130 | 19.68 | 36.424 | 25.93 |
| 140 | 18.81 | 36.401 | 26.14 |
| 150 | 18.35 | 36.353 | 26.22 |
| 160 | 17.73 | 36.304 | 26.34 |
| 170 | 17.34 | 36.335 | 26.46 |
| 180 | 16.98 | 36.272 | 26.50 |
| 190 | 16.75 | 36.237 | 26.53 |
| 200 | 16.47 | 36.187 | 26.56 |
| 250 | 14.82 | 35.939 | 26.74 |
| 300 | 12.40 | 35.553 | 26.94 |
| 342 | 10.42 | 35.260 | 27.08 |

RES-STACS27-87 CTD 35 RESEARCHER
Date 03 21 87 Latitude 27.005 N
Time 1250 Z Longitude 79.867 W



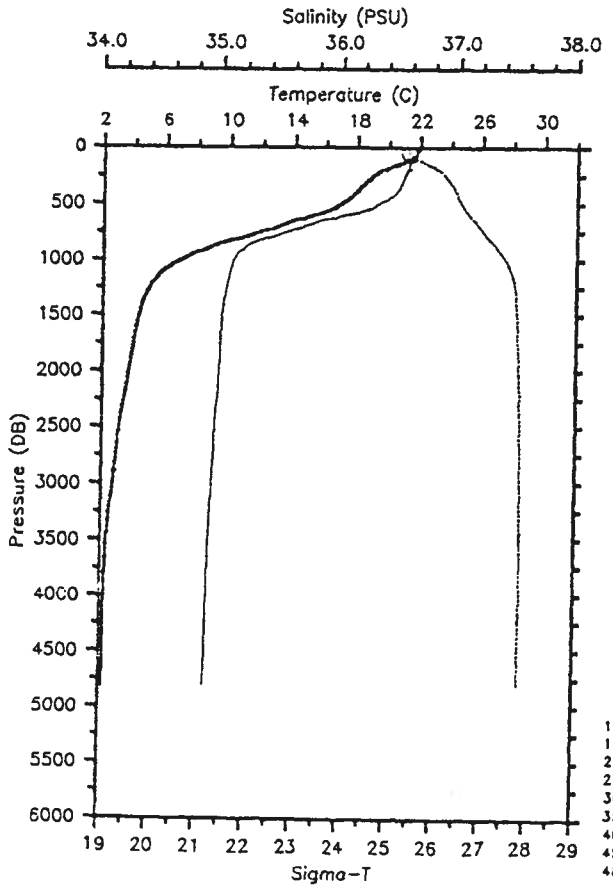

| Prs | Tem | Sal | SigT |
|---|---|---|---|
| 0 | 23.52 | 36.198 | 24.69 |
| 10 | 23.54 | 36.226 | 24.71 |
| 20 | 23.51 | 36.220 | 24.71 |
| 30 | 23.47 | 36.219 | 24.72 |
| 40 | 23.23 | 36.225 | 24.80 |
| 50 | 22.91 | 36.232 | 24.90 |
| 60 | 22.63 | 36.243 | 24.98 |
| 70 | 22.02 | 36.283 | 25.19 |
| 80 | 21.42 | 36.326 | 25.39 |
| 90 | 20.70 | 36.367 | 25.62 |
| 100 | 20.19 | 36.418 | 25.79 |
| 110 | 19.87 | 36.373 | 25.84 |
| 120 | 19.55 | 36.350 | 25.91 |
| 130 | 19.63 | 36.508 | 26.01 |
| 140 | 18.83 | 36.427 | 26.16 |
| 150 | 18.34 | 36.367 | 26.23 |
| 160 | 17.79 | 36.354 | 26.36 |
| 170 | 17.38 | 36.303 | 26.42 |
| 180 | 17.01 | 36.279 | 26.49 |
| 190 | 17.00 | 36.278 | 26.50 |
| 200 | 16.15 | 36.107 | 26.57 |
| 230 | 14.22 | 35.835 | 26.79 |

RES-STACS27-87 CTD 36 RESEARCHER
Date 03 21 87 Latitude 26.999 N
Time 1335 Z Longitude 79.931 W



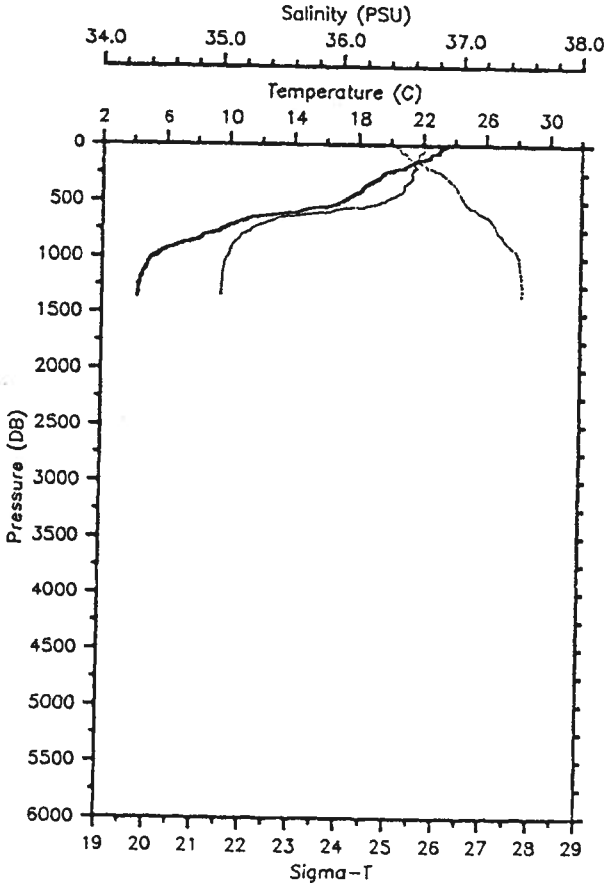

| Prs | Tem | Sal | SigT |
|---|---|---|---|
| 0 | 23.79 | 36.232 | 24.64 |
| 10 | 23.79 | 36.241 | 24.64 |
| 20 | 23.78 | 36.240 | 24.65 |
| 30 | 23.74 | 36.238 | 24.66 |
| 40 | 23.14 | 36.238 | 24.83 |
| 50 | 22.82 | 36.263 | 24.95 |
| 60 | 22.68 | 36.272 | 24.99 |
| 70 | 22.26 | 36.288 | 25.12 |
| 80 | 22.10 | 36.340 | 25.21 |
| 90 | 21.32 | 36.422 | 25.49 |
| 100 | 20.41 | 36.407 | 25.73 |
| 110 | 19.94 | 36.427 | 25.87 |

RES-STACS27-87 CTD 37 RESEARCHER
Date 03 26 87 Latitude 26.477 N
Time 0045 Z Longitude 76.137 W



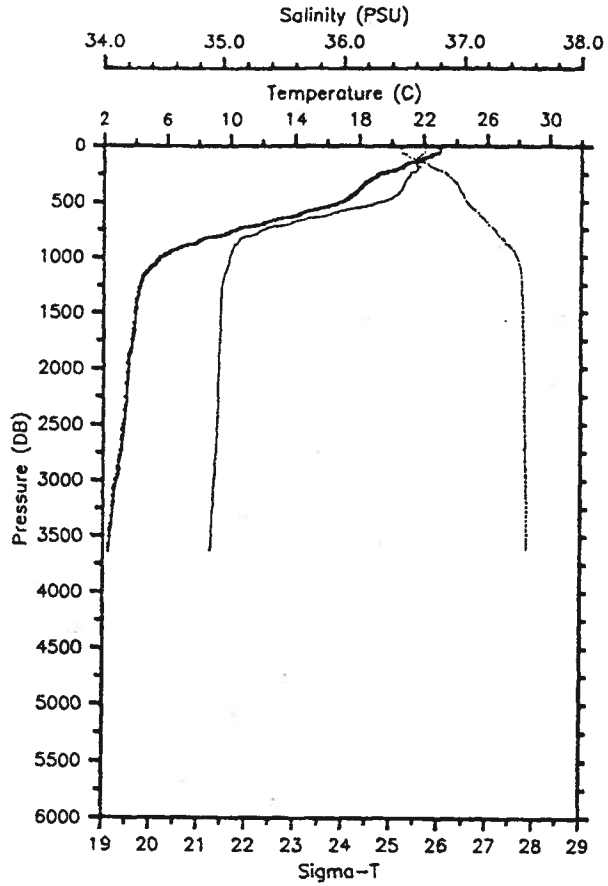

| Prs | Tem | Sal | SigT |
|---|---|---|---|
| 0 | 21.94 | 36.515 | 25.39 |
| 10 | 21.94 | 36.515 | 25.39 |
| 20 | 21.85 | 36.512 | 25.41 |
| 30 | 21.80 | 36.508 | 25.42 |
| 40 | 21.77 | 36.507 | 25.43 |
| 50 | 21.75 | 36.508 | 25.44 |
| 60 | 21.73 | 36.505 | 25.44 |
| 70 | 21.70 | 36.508 | 25.45 |
| 80 | 21.58 | 36.516 | 25.49 |
| 90 | 21.44 | 36.510 | 25.52 |
| 100 | 21.58 | 36.592 | 25.55 |
| 110 | 21.25 | 36.516 | 25.58 |
| 120 | 21.21 | 36.605 | 25.66 |
| 130 | 20.92 | 36.601 | 25.74 |
| 140 | 20.76 | 36.582 | 25.77 |
| 150 | 20.50 | 36.572 | 25.83 |
| 160 | 20.35 | 36.575 | 25.87 |
| 170 | 20.15 | 36.569 | 25.92 |
| 180 | 19.93 | 36.573 | 25.98 |
| 190 | 19.88 | 36.585 | 26.01 |
| 200 | 19.47 | 36.547 | 26.08 |
| 250 | 18.95 | 36.533 | 26.21 |
| 300 | 18.35 | 36.517 | 26.30 |
| 350 | 18.17 | 36.495 | 26.38 |
| 400 | 17.86 | 36.467 | 26.43 |
| 450 | 17.44 | 36.410 | 26.49 |
| 500 | 16.90 | 36.317 | 26.55 |
| 550 | 16.27 | 36.226 | 26.63 |
| 600 | 15.15 | 36.021 | 26.73 |
| 650 | 13.93 | 35.826 | 26.84 |
| 700 | 12.95 | 35.682 | 26.93 |
| 750 | 11.94 | 35.548 | 27.03 |
| 800 | 10.82 | 35.402 | 27.12 |
| 850 | 9.54 | 35.261 | 27.23 |
| 900 | 8.59 | 35.183 | 27.33 |
| 950 | 7.86 | 35.122 | 27.42 |
| 1000 | 6.93 | 35.096 | 27.50 |
| 1500 | 4.32 | 35.004 | 27.76 |
| 2000 | 3.69 | 34.983 | 27.80 |
| 2500 | 3.12 | 34.950 | 27.83 |
| 3000 | 2.75 | 34.931 | 27.85 |
| 3500 | 2.41 | 34.911 | 27.87 |
| 4000 | 2.29 | 34.900 | 27.87 |
| 4500 | 2.27 | 34.892 | 27.86 |
| 4800 | 2.23 | 34.882 | 27.86 |

RES-STACS27-87 CTD 38 RESEARCHER
Date 03 27 87 Latitude 26.555 N
Time 0548 Z Longitude 76.845 W



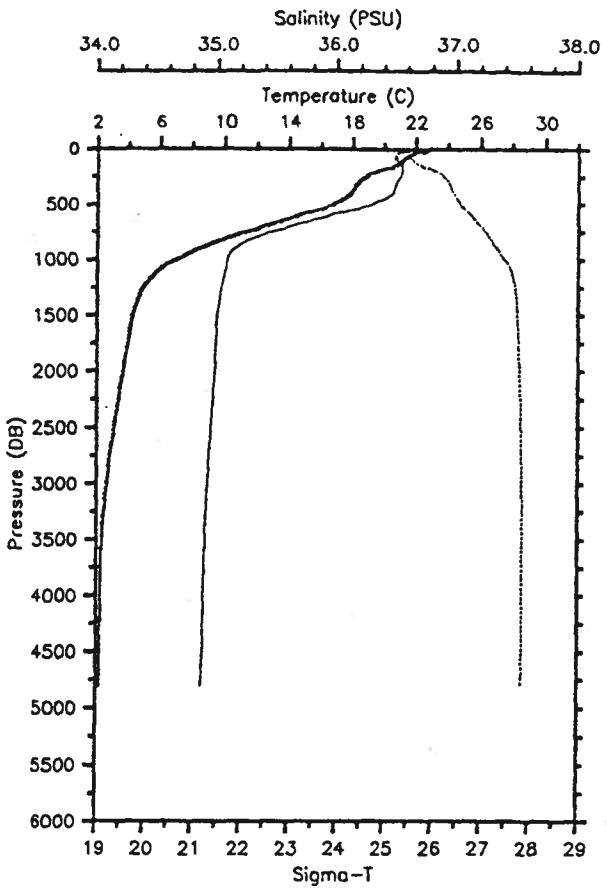

| Prs | Tem | Sal | SigT |
|---|---|---|---|
| 0 | 23.38 | 36.598 | 25.04 |
| 10 | 23.39 | 36.612 | 25.05 |
| 20 | 23.37 | 36.653 | 25.08 |
| 30 | 23.17 | 36.680 | 25.16 |
| 40 | 23.03 | 36.675 | 25.20 |
| 50 | 23.03 | 36.672 | 25.19 |
| 60 | 23.00 | 36.675 | 25.21 |
| 70 | 22.92 | 36.663 | 25.22 |
| 80 | 22.53 | 36.632 | 25.31 |
| 90 | 22.46 | 36.625 | 25.32 |
| 100 | 22.46 | 36.633 | 25.33 |
| 110 | 22.36 | 36.627 | 25.35 |
| 120 | 22.25 | 36.618 | 25.38 |
| 130 | 22.08 | 36.617 | 25.43 |
| 140 | 21.72 | 36.615 | 25.53 |
| 150 | 21.56 | 36.608 | 25.57 |
| 160 | 21.35 | 36.601 | 25.62 |
| 170 | 21.25 | 36.592 | 25.64 |
| 180 | 21.08 | 36.597 | 25.69 |
| 190 | 20.95 | 36.608 | 25.73 |
| 200 | 20.91 | 36.609 | 25.74 |
| 250 | 19.61 | 36.572 | 26.06 |
| 300 | 19.25 | 36.578 | 26.17 |
| 350 | 18.56 | 36.529 | 26.30 |
| 400 | 18.17 | 36.506 | 26.39 |
| 450 | 17.67 | 36.448 | 26.47 |
| 500 | 17.10 | 36.362 | 26.54 |
| 550 | 16.06 | 36.190 | 26.65 |
| 600 | 14.26 | 35.900 | 26.83 |
| 650 | 11.48 | 35.491 | 27.07 |
| 700 | 10.39 | 35.357 | 27.16 |
| 750 | 9.56 | 35.258 | 27.23 |
| 800 | 8.60 | 35.171 | 27.32 |
| 850 | 7.87 | 35.134 | 27.40 |
| 900 | 6.78 | 35.088 | 27.52 |
| 950 | 5.69 | 35.064 | 27.64 |
| 1000 | 5.22 | 35.043 | 27.69 |
| 1352 | 4.26 | 34.999 | 27.78 |

RES-STACS27-87 CTD 39 RESEARCHER
Date 03 27 87 Latitude 26.545 N
Time 0828 Z Longitude 76.755 W



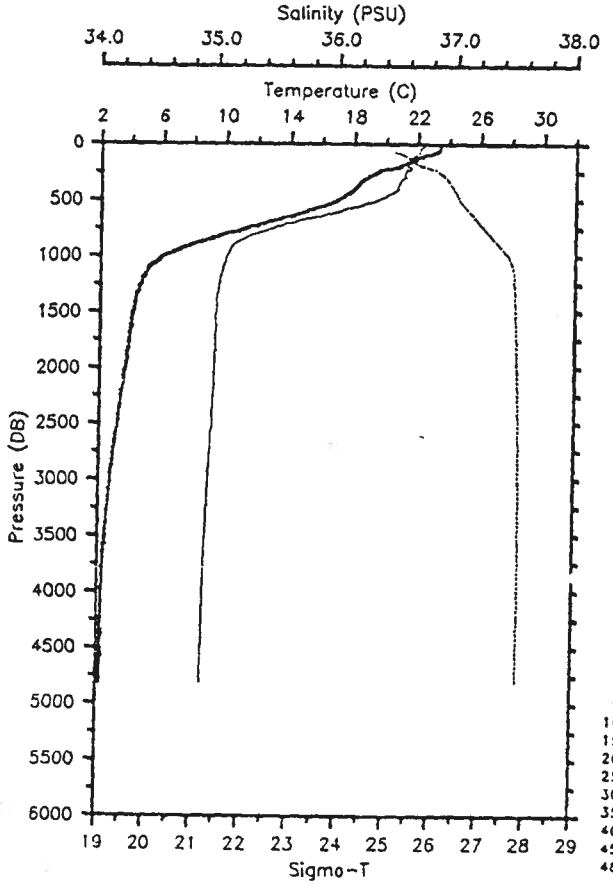

| Prs | Tem | Sal | SigT |
|---|---|---|---|
| 0 | 23.07 | 36.648 | 25.17 |
| 10 | 23.06 | 36.683 | 25.18 |
| 20 | 23.04 | 36.683 | 25.20 |
| 30 | 23.03 | 36.684 | 25.20 |
| 40 | 23.02 | 36.684 | 25.21 |
| 50 | 23.02 | 36.684 | 25.21 |
| 60 | 22.99 | 36.684 | 25.21 |
| 70 | 22.89 | 36.664 | 25.29 |
| 80 | 22.52 | 36.646 | 25.32 |
| 90 | 22.47 | 36.641 | 25.33 |
| 100 | 22.24 | 36.615 | 25.38 |
| 110 | 22.04 | 36.614 | 25.43 |
| 120 | 21.85 | 36.622 | 25.48 |
| 130 | 21.75 | 36.648 | 25.54 |
| 140 | 21.54 | 36.648 | 25.60 |
| 150 | 21.27 | 36.632 | 25.66 |
| 160 | 20.97 | 36.614 | 25.73 |
| 170 | 20.80 | 36.607 | 25.78 |
| 180 | 20.73 | 36.602 | 25.79 |
| 190 | 20.63 | 36.607 | 25.82 |
| 200 | 20.48 | 36.615 | 25.87 |
| 250 | 19.29 | 36.554 | 26.14 |
| 300 | 18.71 | 36.527 | 26.27 |
| 350 | 18.25 | 36.506 | 26.36 |
| 400 | 17.94 | 36.482 | 26.42 |
| 450 | 17.46 | 36.422 | 26.50 |
| 500 | 16.94 | 36.337 | 26.56 |
| 550 | 15.81 | 36.146 | 26.67 |
| 600 | 14.39 | 35.919 | 26.81 |
| 650 | 13.21 | 35.732 | 26.92 |
| 700 | 12.06 | 35.574 | 27.02 |
| 750 | 10.45 | 35.357 | 27.15 |
| 800 | 9.64 | 35.277 | 27.23 |
| 850 | 8.04 | 35.140 | 27.38 |
| 900 | 7.16 | 35.102 | 27.47 |
| 950 | 6.23 | 35.082 | 27.59 |
| 1000 | 5.66 | 35.064 | 27.65 |
| 1500 | 4.07 | 34.991 | 27.77 |
| 2000 | 3.61 | 34.974 | 27.81 |
| 2500 | 3.38 | 34.964 | 27.82 |
| 3000 | 2.86 | 34.936 | 27.85 |
| 3500 | 2.48 | 34.914 | 27.86 |
| 3636 | 2.37 | 34.907 | 27.87 |

RES-STACS27-87 CTD 40 RESEARCHER
Date 03 28 87 Latitude 26.474 N
Time 0215 Z Longitude 75.916 W



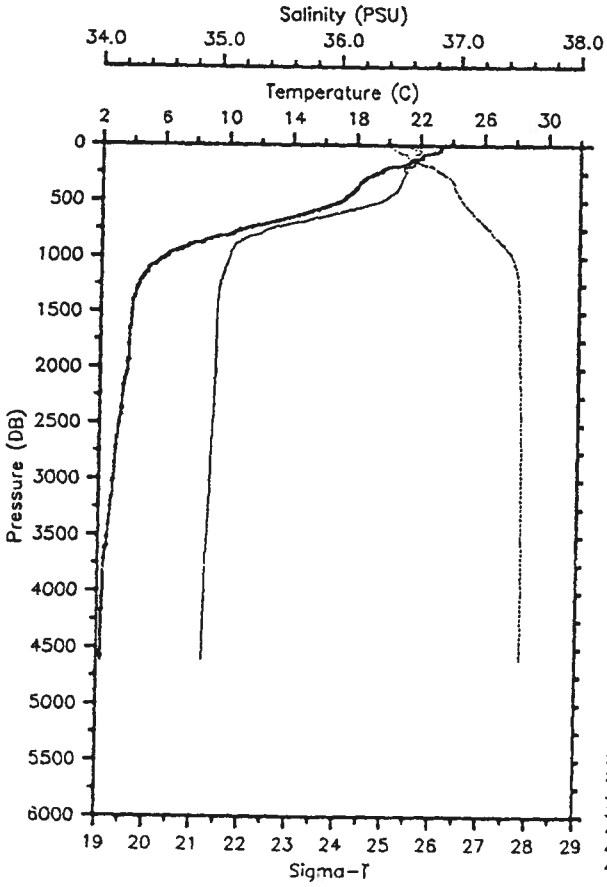

| Prs | Tem | Sal | SigT |
|---|---|---|---|
| 0 | 22.82 | 36.620 | 25.22 |
| 10 | 22.77 | 36.618 | 25.23 |
| 20 | 22.49 | 36.604 | 25.30 |
| 30 | 22.22 | 36.552 | 25.34 |
| 40 | 21.92 | 36.528 | 25.41 |
| 50 | 21.69 | 36.494 | 25.44 |
| 60 | 21.58 | 36.488 | 25.48 |
| 70 | 21.44 | 36.493 | 25.51 |
| 80 | 21.41 | 36.510 | 25.53 |
| 90 | 21.20 | 36.484 | 25.57 |
| 100 | 21.17 | 36.488 | 25.59 |
| 110 | 21.13 | 36.509 | 25.61 |
| 120 | 21.12 | 36.530 | 25.63 |
| 130 | 21.00 | 36.543 | 25.67 |
| 140 | 20.87 | 36.550 | 25.71 |
| 150 | 20.64 | 36.548 | 25.77 |
| 160 | 20.53 | 36.552 | 25.81 |
| 170 | 20.26 | 36.547 | 25.87 |
| 180 | 19.96 | 36.543 | 25.95 |
| 190 | 19.73 | 36.548 | 26.02 |
| 200 | 19.57 | 36.552 | 26.06 |
| 250 | 18.87 | 36.538 | 26.23 |
| 300 | 18.34 | 36.506 | 26.34 |
| 350 | 18.11 | 36.493 | 26.39 |
| 400 | 17.82 | 36.463 | 26.44 |
| 450 | 17.33 | 36.393 | 26.51 |
| 500 | 16.76 | 36.296 | 26.57 |
| 550 | 15.79 | 36.136 | 26.67 |
| 600 | 14.54 | 35.940 | 26.80 |
| 650 | 13.52 | 35.784 | 26.90 |
| 700 | 12.32 | 35.603 | 27.00 |
| 750 | 11.25 | 35.455 | 27.08 |
| 800 | 10.13 | 35.311 | 27.17 |
| 850 | 9.18 | 35.207 | 27.25 |
| 900 | 8.39 | 35.145 | 27.33 |
| 950 | 7.68 | 35.107 | 27.41 |
| 1000 | 6.97 | 35.090 | 27.49 |
| 1500 | 4.28 | 35.003 | 27.76 |
| 2000 | 3.69 | 34.982 | 27.80 |
| 2500 | 3.13 | 34.954 | 27.84 |
| 3000 | 2.67 | 34.928 | 27.86 |
| 3500 | 2.37 | 34.909 | 27.87 |
| 4000 | 2.28 | 34.899 | 27.87 |
| 4500 | 2.26 | 34.893 | 27.86 |
| 4808 | 2.22 | 34.881 | 27.86 |

RES-STACS27-87 CTD 41 RESEARCHER
Date 03 28 87 Latitude 26.536 N
Time 0746 Z Longitude 76.526 W



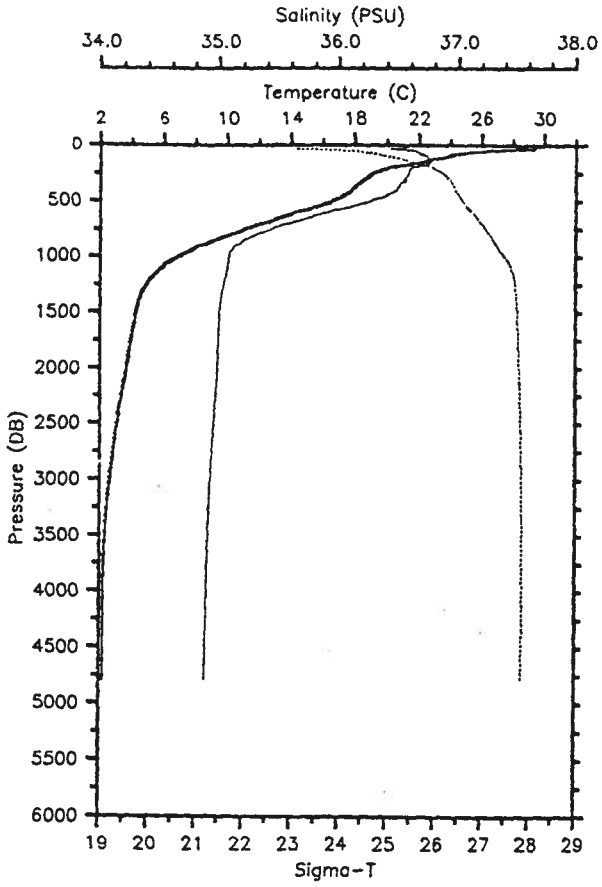

| Prs | Tem | Sal | SigT |
|---|---|---|---|
| 0 | 23.49 | 36.718 | 25.10 |
| 10 | 23.44 | 36.721 | 25.11 |
| 20 | 23.42 | 36.715 | 25.11 |
| 30 | 23.42 | 36.716 | 25.11 |
| 40 | 23.34 | 36.686 | 25.11 |
| 50 | 23.33 | 36.690 | 25.12 |
| 60 | 23.25 | 36.683 | 25.14 |
| 70 | 23.14 | 36.680 | 25.17 |
| 80 | 22.93 | 36.671 | 25.22 |
| 90 | 22.67 | 36.661 | 25.29 |
| 100 | 22.42 | 36.635 | 25.34 |
| 110 | 22.20 | 36.644 | 25.41 |
| 120 | 21.90 | 36.582 | 25.45 |
| 130 | 21.89 | 36.622 | 25.48 |
| 140 | 21.76 | 36.635 | 25.53 |
| 150 | 21.59 | 36.613 | 25.56 |
| 160 | 21.38 | 36.567 | 25.59 |
| 170 | 21.19 | 36.551 | 25.62 |
| 180 | 20.98 | 36.554 | 25.69 |
| 190 | 20.88 | 36.575 | 25.73 |
| 200 | 20.76 | 36.592 | 25.77 |
| 250 | 19.39 | 36.561 | 26.12 |
| 300 | 18.85 | 36.558 | 26.25 |
| 350 | 18.31 | 36.510 | 26.35 |
| 400 | 17.98 | 36.499 | 26.43 |
| 450 | 17.45 | 36.420 | 26.50 |
| 500 | 16.90 | 36.330 | 26.56 |
| 550 | 16.08 | 36.186 | 26.64 |
| 600 | 15.02 | 36.018 | 26.75 |
| 650 | 13.77 | 35.813 | 26.86 |
| 700 | 12.50 | 35.615 | 26.97 |
| 750 | 11.27 | 35.458 | 27.08 |
| 800 | 10.05 | 35.318 | 27.19 |
| 850 | 9.01 | 35.215 | 27.29 |
| 900 | 7.80 | 35.129 | 27.41 |
| 950 | 6.96 | 35.103 | 27.51 |
| 1000 | 6.11 | 35.078 | 27.60 |
| 1500 | 4.16 | 34.988 | 27.76 |
| 2000 | 3.68 | 34.976 | 27.80 |
| 2500 | 3.19 | 34.959 | 27.83 |
| 3000 | 2.78 | 34.934 | 27.85 |
| 3500 | 2.47 | 34.915 | 27.86 |
| 4000 | 2.31 | 34.902 | 27.87 |
| 4500 | 2.29 | 34.895 | 27.88 |
| 4810 | 2.27 | 34.888 | 27.86 |

RES-STACS27-87 CTD 42 RESEARCHER
Date 03 28 87 Latitude 26.588 N
Time 2034 Z Longitude 76.62 0



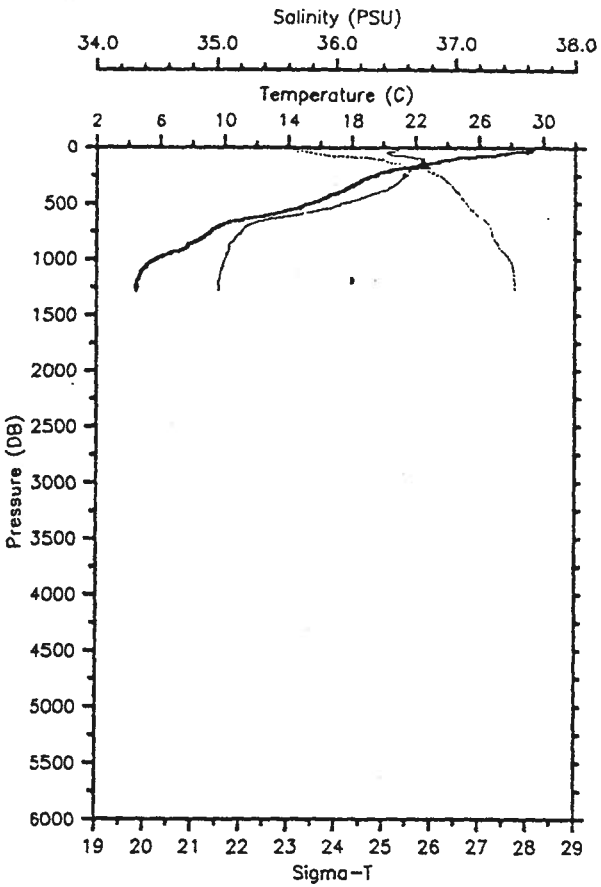

| Prs | Tem | Sal | SigT |
|---|---|---|---|
| 0 | 23.65 | 36.540 | 24.91 |
| 10 | 23.42 | 36.536 | 24.98 |
| 20 | 23.32 | 36.574 | 25.04 |
| 30 | 23.30 | 36.606 | 25.07 |
| 40 | 23.29 | 36.637 | 25.09 |
| 50 | 23.08 | 36.680 | 25.19 |
| 60 | 22.91 | 36.671 | 25.23 |
| 70 | 22.78 | 36.663 | 25.26 |
| 80 | 22.37 | 36.628 | 25.35 |
| 90 | 22.18 | 36.613 | 25.39 |
| 100 | 22.16 | 36.612 | 25.40 |
| 110 | 22.14 | 36.615 | 25.41 |
| 120 | 21.87 | 36.605 | 25.48 |
| 130 | 21.69 | 36.604 | 25.53 |
| 140 | 21.41 | 36.586 | 25.57 |
| 150 | 21.46 | 36.629 | 25.61 |
| 160 | 21.25 | 36.620 | 25.66 |
| 170 | 21.08 | 36.618 | 25.70 |
| 180 | 20.88 | 36.625 | 25.77 |
| 190 | 20.50 | 36.617 | 25.86 |
| 200 | 20.00 | 36.554 | 25.95 |
| 250 | 19.35 | 36.552 | 26.12 |
| 300 | 18.57 | 36.524 | 26.30 |
| 350 | 18.17 | 36.505 | 26.38 |
| 400 | 17.93 | 36.484 | 26.43 |
| 450 | 17.49 | 36.422 | 26.49 |
| 500 | 16.99 | 36.345 | 26.55 |
| 550 | 16.08 | 36.193 | 26.65 |
| 600 | 14.99 | 36.014 | 26.76 |
| 650 | 13.82 | 35.826 | 26.86 |
| 700 | 12.46 | 35.618 | 26.98 |
| 750 | 10.99 | 35.420 | 27.10 |
| 800 | 10.06 | 35.315 | 27.19 |
| 850 | 8.51 | 35.176 | 27.33 |
| 900 | 7.53 | 35.119 | 27.44 |
| 950 | 6.61 | 35.089 | 27.54 |
| 1000 | 6.04 | 35.075 | 27.61 |
| 1500 | 3.99 | 34.984 | 27.77 |
| 2000 | 3.74 | 34.978 | 27.80 |
| 2500 | 3.25 | 34.959 | 27.83 |
| 3000 | 2.92 | 34.941 | 27.84 |
| 3500 | 2.62 | 34.923 | 27.86 |
| 4000 | 2.37 | 34.905 | 27.87 |
| 4500 | 2.28 | 34.894 | 27.86 |
| 4596 | 2.28 | 34.893 | 27.86 |

RES-STACS28-87 CTD 1 RESEARCHER
Date 09 02 87 Latitude 26.500 N
Time 1800 Z Longitude 75.947 W



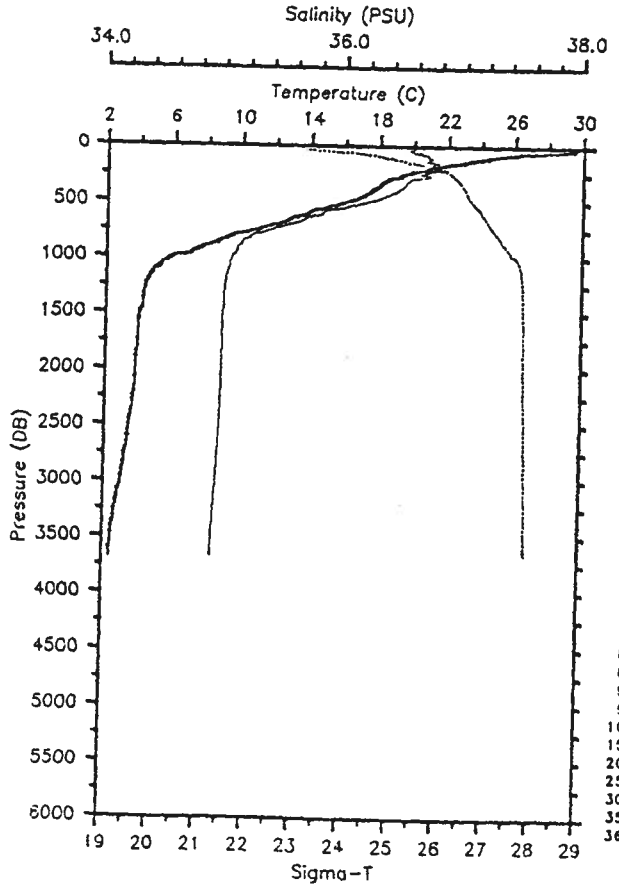

| Prs | Tem | Sal | SigT |
|---|---|---|---|
| 0 | 29.70 | 36.533 | 22.98 |
| 10 | 29.49 | 36.514 | 23.04 |
| 20 | 29.42 | 36.558 | 23.10 |
| 30 | 29.36 | 36.554 | 23.11 |
| 40 | 28.21 | 36.424 | 23.40 |
| 50 | 26.79 | 36.591 | 23.99 |
| 60 | 25.65 | 36.653 | 24.39 |
| 70 | 24.92 | 36.647 | 24.61 |
| 80 | 24.50 | 36.711 | 24.79 |
| 90 | 24.10 | 36.682 | 24.89 |
| 100 | 23.88 | 36.736 | 25.00 |
| 110 | 23.61 | 36.738 | 25.07 |
| 120 | 23.22 | 36.743 | 25.19 |
| 130 | 22.77 | 36.755 | 25.33 |
| 140 | 22.43 | 36.753 | 25.43 |
| 150 | 22.20 | 36.767 | 25.51 |
| 160 | 21.92 | 36.771 | 25.59 |
| 170 | 21.48 | 36.733 | 25.68 |
| 180 | 21.12 | 36.723 | 25.77 |
| 190 | 20.66 | 36.669 | 25.86 |
| 200 | 20.37 | 36.639 | 25.91 |
| 250 | 19.22 | 36.579 | 26.17 |
| 300 | 18.66 | 36.544 | 26.29 |
| 350 | 18.19 | 36.506 | 26.38 |
| 400 | 17.85 | 36.483 | 26.45 |
| 450 | 17.31 | 36.395 | 26.51 |
| 500 | 16.60 | 36.275 | 26.58 |
| 550 | 15.72 | 36.124 | 26.68 |
| 600 | 14.39 | 35.912 | 26.81 |
| 650 | 13.34 | 35.752 | 26.91 |
| 700 | 12.28 | 35.595 | 27.00 |
| 750 | 11.14 | 35.439 | 27.09 |
| 800 | 10.31 | 35.335 | 27.16 |
| 850 | 9.35 | 35.225 | 27.24 |
| 900 | 8.52 | 35.164 | 27.32 |
| 950 | 7.70 | 35.102 | 27.40 |
| 1000 | 6.99 | 35.083 | 27.49 |
| 1500 | 4.28 | 35.005 | 27.76 |
| 2000 | 3.71 | 34.986 | 27.81 |
| 2500 | 3.12 | 34.955 | 27.84 |
| 3000 | 2.68 | 34.929 | 27.86 |
| 3500 | 2.38 | 34.911 | 27.87 |
| 4000 | 2.29 | 34.901 | 27.87 |
| 4500 | 2.27 | 34.894 | 27.86 |
| 4784 | 2.25 | 34.887 | 27.86 |

RES-STACS28-87 CTD 2 RESEARCHER
Date 09 03 87 Latitude 26.562 N
Time 0540 Z Longitude 76.848 W



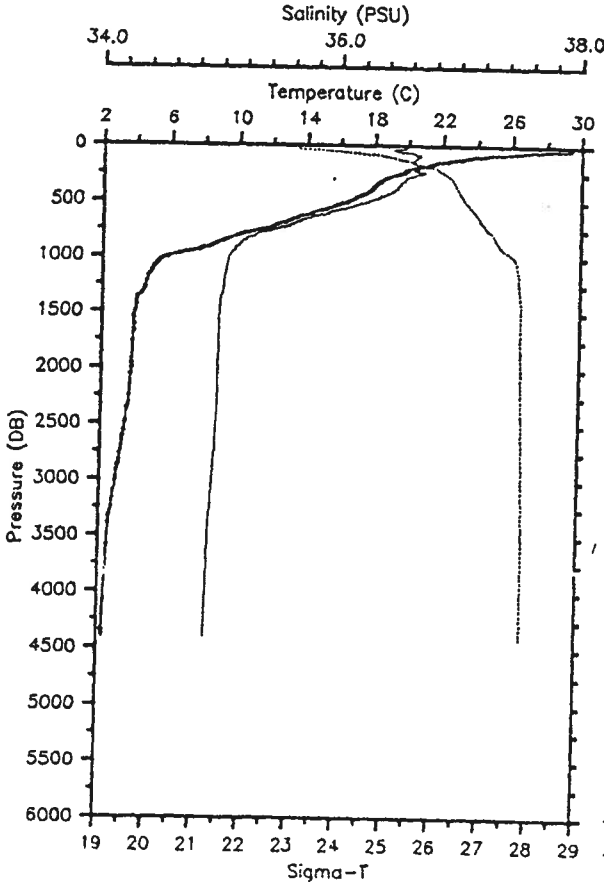

| Prs | Tem | Sal | SigT |
|---|---|---|---|
| 0 | 29.43 | 36.485 | 23.05 |
| 10 | 29.40 | 36.512 | 23.07 |
| 20 | 29.34 | 36.527 | 23.10 |
| 30 | 29.25 | 36.517 | 23.12 |
| 40 | 28.59 | 36.448 | 23.29 |
| 50 | 27.85 | 36.424 | 23.52 |
| 60 | 27.60 | 36.457 | 23.62 |
| 70 | 27.07 | 36.459 | 23.80 |
| 80 | 26.15 | 36.569 | 24.17 |
| 90 | 25.41 | 36.621 | 24.44 |
| 100 | 24.49 | 36.725 | 24.80 |
| 110 | 24.09 | 36.744 | 24.94 |
| 120 | 23.71 | 36.718 | 25.03 |
| 130 | 23.51 | 36.746 | 25.11 |
| 140 | 23.06 | 36.750 | 25.24 |
| 150 | 22.61 | 36.709 | 25.35 |
| 160 | 22.22 | 36.641 | 25.41 |
| 170 | 21.86 | 36.640 | 25.51 |
| 180 | 21.93 | 36.780 | 25.59 |
| 190 | 20.95 | 36.635 | 25.75 |
| 200 | 20.51 | 36.607 | 25.85 |
| 250 | 19.37 | 36.601 | 26.15 |
| 300 | 18.52 | 36.540 | 26.32 |
| 350 | 17.81 | 36.466 | 26.44 |
| 400 | 16.99 | 36.341 | 26.55 |
| 450 | 16.24 | 36.216 | 26.63 |
| 500 | 15.34 | 36.067 | 26.72 |
| 550 | 14.37 | 35.913 | 26.81 |
| 600 | 12.89 | 35.688 | 26.95 |
| 650 | 10.98 | 35.427 | 27.11 |
| 700 | 9.64 | 35.260 | 27.22 |
| 750 | 9.12 | 35.209 | 27.26 |
| 800 | 8.73 | 35.166 | 27.29 |
| 850 | 8.10 | 35.128 | 27.36 |
| 900 | 7.51 | 35.098 | 27.42 |
| 950 | 6.61 | 35.091 | 27.55 |
| 1000 | 5.69 | 35.069 | 27.65 |
| 1280 | 4.46 | 35.015 | 27.75 |

RES-STACS28-87 CTD 3 RESEARCHER
Date 09 03 87 Latitude 26.550 N
Time 1008 Z Longitude 76.767 W




| Prs | Tem | Sal | SigT |
|---|---|---|---|
| 0 | 29.49 | 36.566 | 23.08 |
| 10 | 29.48 | 36.569 | 23.08 |
| 20 | 29.48 | 36.569 | 23.08 |
| 30 | 29.44 | 36.561 | 23.09 |
| 40 | 28.75 | 36.520 | 23.29 |
| 50 | 27.79 | 36.547 | 23.63 |
| 60 | 26.36 | 36.616 | 24.14 |
| 70 | 25.81 | 36.630 | 24.33 |
| 80 | 25.22 | 36.678 | 24.55 |
| 90 | 24.60 | 36.687 | 24.74 |
| 100 | 24.36 | 36.704 | 24.83 |
| 110 | 23.94 | 36.723 | 24.97 |
| 120 | 23.39 | 36.691 | 25.10 |
| 130 | 23.07 | 36.687 | 25.20 |
| 140 | 22.83 | 36.735 | 25.30 |
| 150 | 22.33 | 36.753 | 25.46 |
| 160 | 21.90 | 36.723 | 25.56 |
| 170 | 21.50 | 36.725 | 25.67 |
| 180 | 21.13 | 36.726 | 25.78 |
| 190 | 20.86 | 36.719 | 25.84 |
| 200 | 20.76 | 36.787 | 25.92 |
| 250 | 19.28 | 36.629 | 26.20 |
| 300 | 18.37 | 36.538 | 26.36 |
| 350 | 17.95 | 36.492 | 26.43 |
| 400 | 17.47 | 36.425 | 26.50 |
| 450 | 16.87 | 36.326 | 26.57 |
| 500 | 15.94 | 36.170 | 26.66 |
| 550 | 14.84 | 35.992 | 26.77 |
| 600 | 13.77 | 35.202 | 26.35 |
| 650 | 12.81 | 35.674 | 26.95 |
| 700 | 11.98 | 35.548 | 27.02 |
| 750 | 10.89 | 35.404 | 27.11 |
| 800 | 9.47 | 35.234 | 27.22 |
| 850 | 8.63 | 35.148 | 27.29 |
| 900 | 7.75 | 35.109 | 27.40 |
| 950 | 7.08 | 35.097 | 27.48 |
| 1000 | 5.94 | 35.064 | 27.61 |
| 1500 | 4.03 | 34.989 | 27.77 |
| 2000 | 3.81 | 34.982 | 27.79 |
| 2500 | 3.45 | 34.970 | 27.82 |
| 3000 | 3.02 | 34.946 | 27.84 |
| 3500 | 2.53 | 34.919 | 27.86 |
| 3672 | 2.44 | 34.914 | 27.87 |

RES-STACS28-87 CTD 4 RESEARCHER
Date 09 03 87 Latitude 26.577 N
Time 1537 Z Longitude 76.627 W

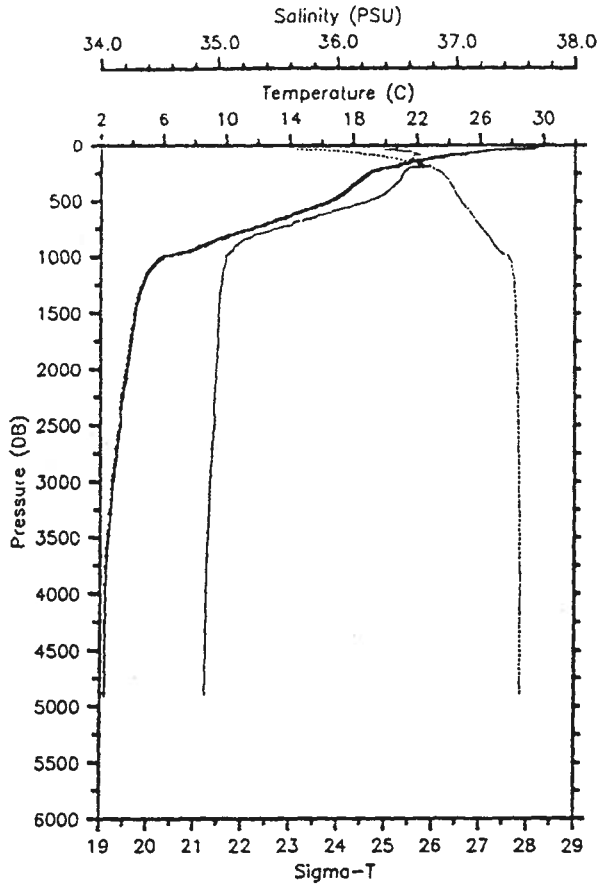



| Prs | Tem | Sal | SigT |
|---|---|---|---|
| 0 | 29.47 | 36.552 | 23.07 |
| 10 | 29.42 | 36.549 | 23.09 |
| 20 | 29.40 | 36.545 | 23.09 |
| 30 | 29.39 | 36.544 | 23.10 |
| 40 | 28.65 | 36.444 | 23.27 |
| 50 | 27.26 | 36.455 | 23.73 |
| 60 | 26.29 | 36.490 | 24.07 |
| 70 | 25.76 | 36.618 | 24.33 |
| 80 | 25.00 | 36.618 | 24.57 |
| 90 | 24.25 | 36.649 | 24.82 |
| 100 | 23.70 | 36.656 | 24.99 |
| 110 | 23.31 | 36.653 | 25.09 |
| 120 | 23.05 | 36.635 | 25.16 |
| 130 | 22.49 | 36.620 | 25.31 |
| 140 | 22.11 | 36.607 | 25.41 |
| 150 | 21.65 | 36.604 | 25.54 |
| 160 | 21.43 | 36.608 | 25.60 |
| 170 | 21.20 | 36.624 | 25.68 |
| 180 | 21.19 | 36.766 | 25.79 |
| 190 | 20.55 | 36.660 | 25.88 |
| 200 | 20.32 | 36.686 | 25.95 |
| 250 | 19.50 | 36.678 | 26.18 |
| 300 | 18.48 | 36.544 | 26.33 |
| 350 | 18.11 | 36.507 | 26.40 |
| 400 | 17.68 | 36.451 | 26.46 |
| 450 | 17.12 | 36.364 | 26.53 |
| 500 | 16.36 | 36.235 | 26.62 |
| 550 | 15.45 | 36.088 | 26.71 |
| 600 | 14.32 | 35.905 | 26.82 |
| 650 | 13.37 | 35.748 | 26.90 |
| 700 | 12.37 | 35.606 | 26.99 |
| 750 | 11.37 | 35.483 | 27.07 |
| 800 | 9.97 | 35.291 | 27.19 |
| 850 | 9.10 | 35.194 | 27.25 |
| 900 | 8.38 | 35.146 | 27.33 |
| 950 | 7.22 | 35.097 | 27.46 |
| 1000 | 5.84 | 35.062 | 27.62 |
| 1500 | 3.93 | 34.985 | 27.78 |
| 2000 | 3.78 | 34.980 | 27.79 |
| 2500 | 3.42 | 34.966 | 27.82 |
| 3000 | 2.98 | 34.944 | 27.84 |
| 3500 | 2.55 | 34.919 | 27.86 |
| 4000 | 2.40 | 34.908 | 27.86 |
| 4394 | 2.33 | 34.900 | 27.86 |

RES-STACS28-87 CTD 5 RESEARCHER

Date 09 03 87 Latitude 26.552 N

Time 2216 Z Longitude 76.535 W

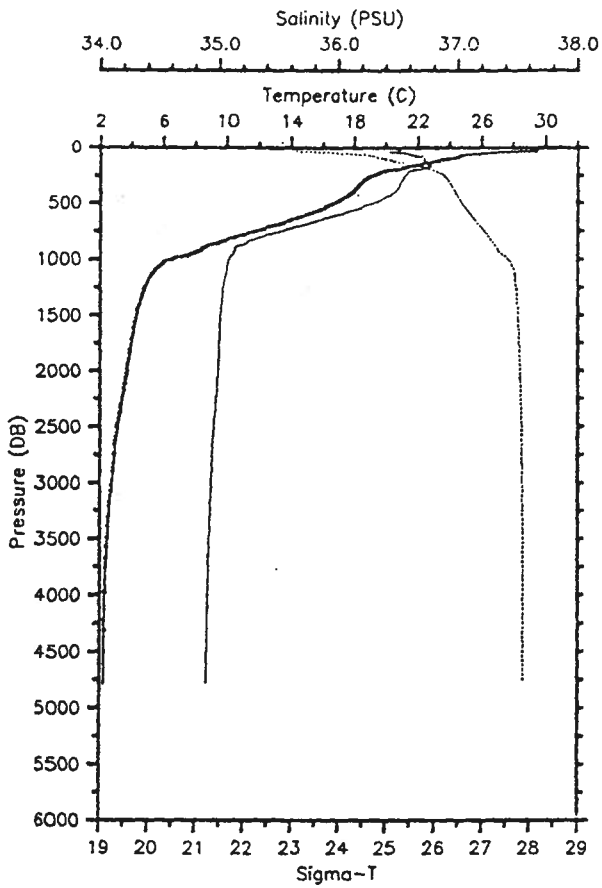



| Prs | Tem | Sal | SigT |
|---|---|---|---|
| 0 | 29.61 | 36.515 | 23.00 |
| 10 | 29.59 | 36.510 | 23.00 |
| 20 | 29.43 | 36.501 | 23.05 |
| 30 | 29.41 | 36.501 | 23.06 |
| 40 | 28.40 | 36.419 | 23.33 |
| 50 | 26.71 | 36.494 | 23.94 |
| 60 | 26.07 | 36.612 | 24.23 |
| 70 | 25.62 | 36.651 | 24.40 |
| 80 | 24.99 | 36.672 | 24.61 |
| 90 | 24.36 | 36.632 | 24.77 |
| 100 | 23.74 | 36.639 | 24.96 |
| 110 | 23.32 | 36.629 | 25.08 |
| 120 | 22.99 | 36.623 | 25.17 |
| 130 | 22.28 | 36.606 | 25.36 |
| 140 | 22.12 | 36.717 | 25.49 |
| 150 | 21.72 | 36.702 | 25.59 |
| 160 | 21.50 | 36.701 | 25.65 |
| 170 | 21.01 | 36.668 | 25.76 |
| 180 | 20.83 | 36.672 | 25.81 |
| 190 | 20.80 | 36.791 | 25.92 |
| 200 | 20.20 | 36.670 | 25.98 |
| 250 | 19.05 | 36.561 | 26.20 |
| 300 | 18.54 | 36.531 | 26.31 |
| 350 | 18.09 | 36.489 | 26.38 |
| 400 | 17.67 | 36.440 | 26.46 |
| 450 | 17.22 | 36.381 | 26.52 |
| 500 | 16.49 | 36.260 | 26.60 |
| 550 | 15.67 | 36.120 | 26.69 |
| 600 | 14.60 | 35.948 | 26.79 |
| 650 | 13.74 | 35.814 | 26.87 |
| 700 | 12.62 | 35.635 | 26.96 |
| 750 | 11.57 | 35.492 | 27.05 |
| 800 | 10.32 | 35.328 | 27.15 |
| 850 | 9.32 | 35.217 | 27.24 |
| 900 | 8.51 | 35.148 | 27.31 |
| 950 | 7.68 | 35.117 | 27.41 |
| 1000 | 6.02 | 35.069 | 27.60 |
| 1500 | 4.23 | 35.007 | 27.77 |
| 2000 | 3.71 | 34.986 | 27.81 |
| 2500 | 3.31 | 34.967 | 27.83 |
| 3000 | 2.82 | 34.936 | 27.85 |
| 3500 | 2.56 | 34.920 | 27.86 |
| 4000 | 2.39 | 34.908 | 27.87 |
| 4500 | 2.35 | 34.900 | 27.86 |
| 4900 | 2.30 | 34.891 | 27.86 |

RES-STACS28-87 CTD 6 RESEARCHER

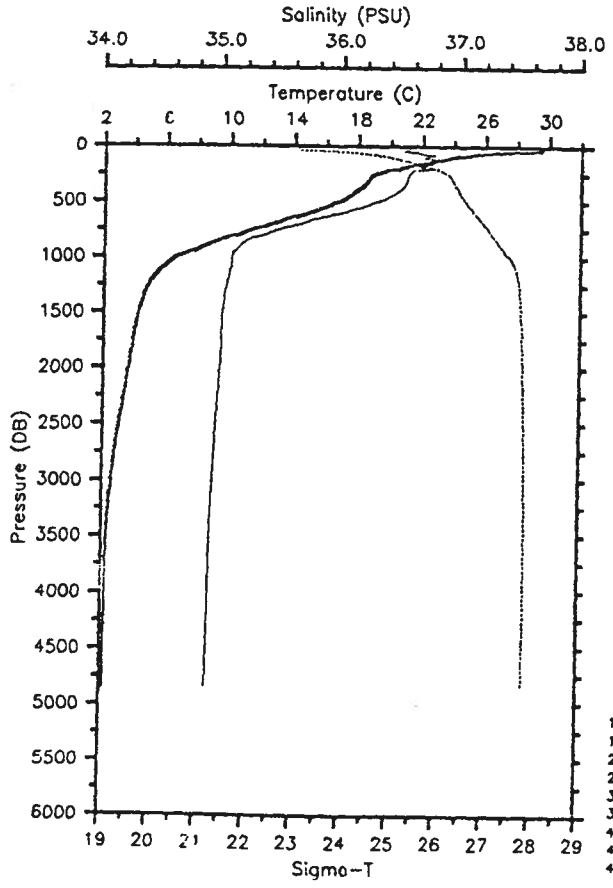
Date 09 04 87 Latitude 26.522 N

Time 0642 Z Longitude 76.408 W



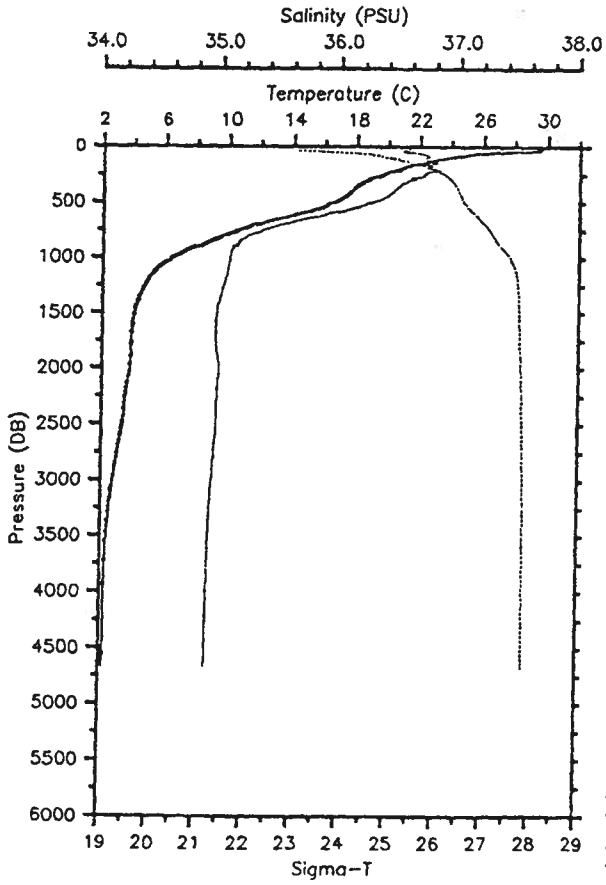

| Prs | Tem | Sal | SigT |
|---|---|---|---|
| 0 | 29.48 | 36.505 | 23.04 |
| 10 | 29.48 | 36.507 | 23.04 |
| 20 | 29.47 | 36.507 | 23.04 |
| 30 | 29.39 | 36.510 | 23.07 |
| 40 | 28.01 | 36.421 | 23.46 |
| 50 | 26.65 | 36.553 | 24.00 |
| 60 | 25.70 | 36.581 | 24.32 |
| 70 | 24.81 | 36.627 | 24.63 |
| 80 | 24.54 | 36.663 | 24.74 |
| 90 | 24.42 | 36.712 | 24.81 |
| 100 | 23.98 | 36.714 | 24.95 |
| 110 | 23.64 | 36.719 | 25.05 |
| 120 | 23.29 | 36.729 | 25.16 |
| 130 | 22.92 | 36.748 | 25.29 |
| 140 | 22.50 | 36.725 | 25.39 |
| 150 | 22.12 | 36.750 | 25.52 |
| 160 | 21.72 | 36.757 | 25.63 |
| 170 | 21.41 | 36.764 | 25.73 |
| 180 | 21.13 | 36.752 | 25.79 |
| 190 | 20.85 | 36.734 | 25.86 |
| 200 | 20.20 | 36.612 | 25.94 |
| 250 | 19.03 | 36.556 | 26.21 |
| 300 | 18.53 | 36.526 | 26.31 |
| 350 | 18.21 | 36.506 | 26.38 |
| 400 | 17.87 | 36.466 | 26.43 |
| 450 | 17.31 | 36.390 | 26.51 |
| 500 | 16.67 | 36.286 | 26.58 |
| 550 | 15.91 | 36.159 | 26.66 |
| 600 | 14.98 | 36.011 | 26.75 |
| 650 | 13.95 | 35.843 | 26.85 |
| 700 | 12.87 | 35.679 | 26.95 |
| 750 | 11.74 | 35.516 | 27.04 |
| 800 | 10.54 | 35.355 | 27.14 |
| 850 | 9.44 | 35.237 | 27.23 |
| 900 | 8.41 | 35.128 | 27.31 |
| 950 | 7.71 | 35.119 | 27.41 |
| 1000 | 6.47 | 35.080 | 27.56 |
| 1500 | 4.29 | 35.007 | 27.76 |
| 2000 | 3.70 | 34.987 | 27.81 |
| 2500 | 3.12 | 34.953 | 27.84 |
| 3000 | 2.75 | 34.933 | 27.85 |
| 3500 | 2.49 | 34.916 | 27.86 |
| 4000 | 2.34 | 34.905 | 27.87 |
| 4500 | 2.30 | 34.897 | 27.86 |
| 4774 | 2.30 | 34.893 | 27.86 |

RES-STACS28-87 CTD 7 RESEARCHER
Date 09 04 87 Latitude 26.483 N
Time 1118 Z Longitude 76.157 W



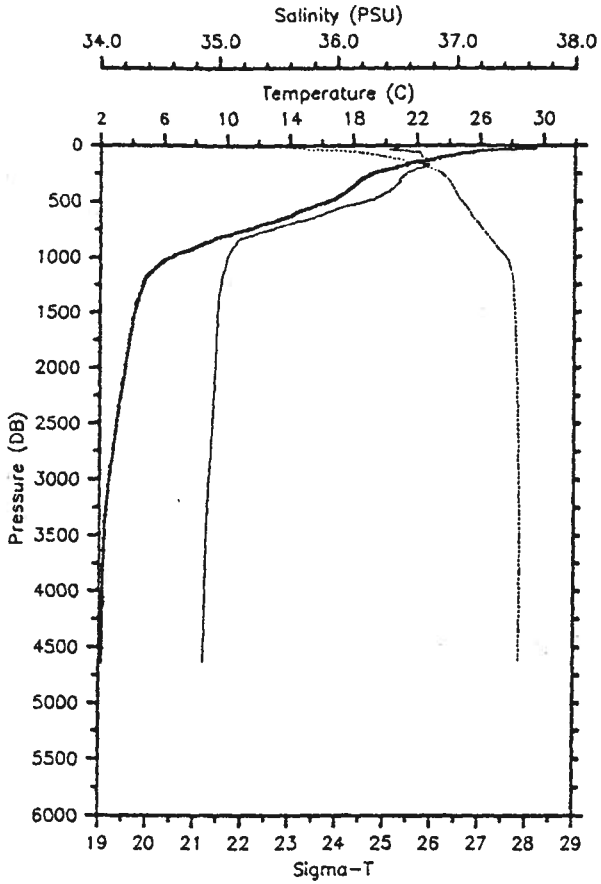

| Prs | Tem | Sal | SigT |
|---|---|---|---|
| 0 | 29.48 | 36.552 | 23.07 |
| 10 | 29.48 | 36.553 | 23.07 |
| 20 | 29.48 | 36.552 | 23.07 |
| 30 | 29.47 | 36.548 | 23.07 |
| 40 | 29.24 | 36.547 | 23.15 |
| 50 | 27.26 | 36.564 | 23.81 |
| 60 | 26.12 | 36.637 | 24.23 |
| 70 | 25.37 | 36.680 | 24.50 |
| 80 | 24.92 | 36.763 | 24.70 |
| 90 | 24.26 | 36.711 | 24.86 |
| 100 | 23.83 | 36.688 | 24.97 |
| 110 | 23.58 | 36.755 | 25.10 |
| 120 | 23.19 | 36.735 | 25.20 |
| 130 | 22.80 | 36.753 | 25.32 |
| 140 | 22.41 | 36.756 | 25.44 |
| 150 | 21.93 | 36.726 | 25.55 |
| 160 | 21.71 | 36.751 | 25.63 |
| 170 | 21.33 | 36.697 | 25.70 |
| 180 | 20.93 | 36.672 | 25.79 |
| 190 | 20.66 | 36.663 | 25.86 |
| 200 | 20.59 | 36.708 | 25.91 |
| 250 | 19.09 | 36.558 | 26.19 |
| 300 | 18.62 | 36.537 | 26.29 |
| 350 | 18.31 | 36.512 | 26.35 |
| 400 | 17.89 | 36.471 | 26.43 |
| 450 | 17.41 | 36.402 | 26.48 |
| 500 | 16.74 | 36.293 | 26.57 |
| 550 | 15.90 | 36.160 | 26.66 |
| 600 | 14.98 | 36.010 | 26.76 |
| 650 | 13.69 | 35.806 | 26.88 |
| 700 | 12.69 | 35.656 | 26.96 |
| 750 | 11.50 | 35.483 | 27.06 |
| 800 | 10.58 | 35.366 | 27.14 |
| 850 | 9.27 | 35.206 | 27.24 |
| 900 | 8.43 | 35.143 | 27.32 |
| 950 | 7.71 | 35.111 | 27.41 |
| 1000 | 6.64 | 35.077 | 27.53 |
| 1500 | 4.26 | 35.006 | 27.76 |
| 2000 | 3.63 | 34.980 | 27.81 |
| 2500 | 3.07 | 34.952 | 27.84 |
| 3000 | 2.64 | 34.929 | 27.86 |
| 3500 | 2.37 | 34.911 | 27.87 |
| 4000 | 2.30 | 34.903 | 27.87 |
| 4500 | 2.28 | 34.896 | 27.87 |
| 4850 | 2.24 | 34.885 | 27.86 |

RES-STACS28-87 CTD 8 RESEARCHER
Date 09 04 87 Latitude 26.468 N
Time 1953 Z Longitude 75.532 W



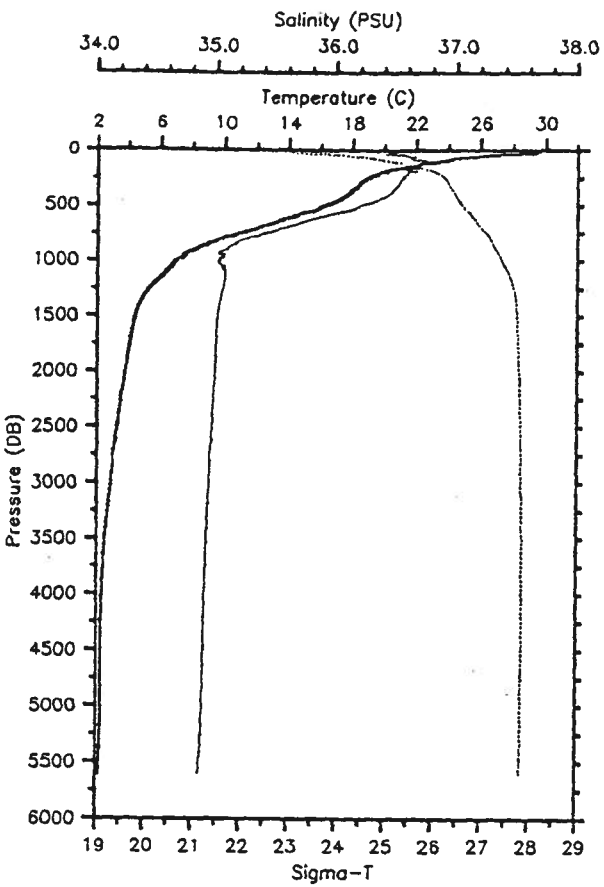

| Prs | Tem | Sal | SigT |
|---|---|---|---|
| 0 | 29.71 | 36.531 | 22.98 |
| 10 | 29.56 | 36.565 | 23.05 |
| 20 | 29.49 | 36.567 | 23.08 |
| 30 | 29.48 | 36.573 | 23.09 |
| 40 | 29.03 | 36.528 | 23.20 |
| 50 | 27.43 | 36.537 | 23.74 |
| 60 | 26.06 | 36.638 | 24.25 |
| 70 | 25.20 | 36.707 | 24.57 |
| 80 | 24.76 | 36.726 | 24.72 |
| 90 | 24.33 | 36.738 | 24.86 |
| 100 | 23.75 | 36.707 | 25.01 |
| 110 | 23.40 | 36.709 | 25.11 |
| 120 | 23.02 | 36.716 | 25.23 |
| 130 | 22.82 | 36.768 | 25.33 |
| 140 | 22.46 | 36.789 | 25.45 |
| 150 | 22.22 | 36.813 | 25.53 |
| 160 | 21.79 | 36.774 | 25.63 |
| 170 | 21.39 | 36.734 | 25.71 |
| 180 | 21.20 | 36.759 | 25.78 |
| 190 | 20.86 | 36.719 | 25.84 |
| 200 | 20.78 | 36.785 | 25.92 |
| 250 | 19.57 | 36.690 | 26.17 |
| 300 | 18.73 | 36.606 | 26.32 |
| 350 | 18.05 | 36.495 | 26.41 |
| 400 | 17.64 | 36.442 | 26.47 |
| 450 | 17.24 | 36.382 | 26.52 |
| 500 | 16.60 | 36.276 | 26.59 |
| 550 | 15.68 | 36.120 | 26.68 |
| 600 | 14.33 | 35.896 | 26.81 |
| 650 | 13.20 | 35.724 | 26.91 |
| 700 | 11.86 | 35.529 | 27.03 |
| 750 | 10.66 | 35.367 | 27.12 |
| 800 | 9.73 | 35.247 | 27.19 |
| 850 | 8.90 | 35.157 | 27.26 |
| 900 | 8.14 | 35.128 | 27.35 |
| 950 | 7.13 | 35.080 | 27.46 |
| 1000 | 6.41 | 35.070 | 27.55 |
| 1500 | 4.03 | 34.966 | 27.76 |
| 2000 | 3.78 | 34.986 | 27.80 |
| 2500 | 3.34 | 34.966 | 27.83 |
| 3000 | 2.78 | 34.934 | 27.85 |
| 3500 | 2.41 | 34.911 | 27.87 |
| 4000 | 2.30 | 34.901 | 27.87 |
| 4500 | 2.27 | 34.895 | 27.87 |
| 4664 | 2.27 | 34.891 | 27.86 |

RES-STACS28-87 CTD 9 RESEARCHER
Date 09 05 87 Latitude 26.467 N
Time 0332 Z Longitude 75.025 W



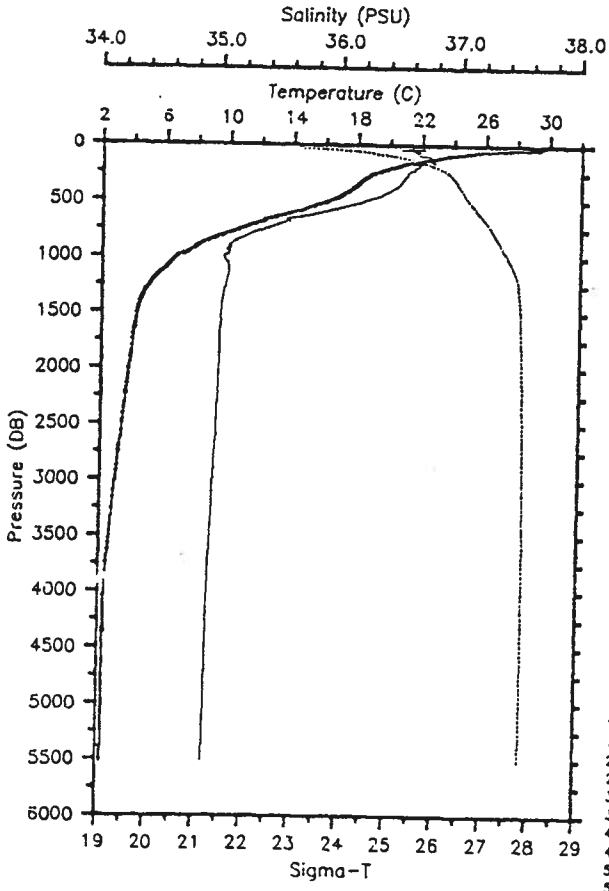

| Prs | Tem | Sal | SigT |
|---|---|---|---|
| 0 | 29.53 | 36.518 | 23.03 |
| 10 | 29.46 | 36.511 | 23.05 |
| 20 | 29.42 | 36.508 | 23.06 |
| 30 | 28.97 | 36.496 | 23.20 |
| 40 | 27.56 | 36.439 | 23.62 |
| 50 | 26.33 | 36.595 | 24.14 |
| 60 | 25.59 | 36.659 | 24.41 |
| 70 | 24.93 | 36.697 | 24.65 |
| 80 | 24.63 | 36.709 | 24.75 |
| 90 | 24.23 | 36.714 | 24.87 |
| 100 | 23.74 | 36.696 | 25.01 |
| 110 | 23.42 | 36.747 | 25.14 |
| 120 | 23.07 | 36.756 | 25.25 |
| 130 | 22.76 | 36.763 | 25.34 |
| 140 | 21.98 | 36.627 | 25.46 |
| 150 | 21.65 | 36.619 | 25.55 |
| 160 | 21.39 | 36.693 | 25.68 |
| 170 | 21.40 | 36.770 | 25.73 |
| 180 | 21.11 | 36.753 | 25.80 |
| 190 | 20.73 | 36.726 | 25.88 |
| 200 | 20.51 | 36.729 | 25.94 |
| 250 | 19.13 | 36.580 | 26.20 |
| 300 | 18.45 | 36.522 | 26.33 |
| 350 | 18.07 | 36.497 | 26.40 |
| 400 | 17.63 | 36.444 | 26.47 |
| 450 | 17.17 | 36.372 | 26.53 |
| 500 | 16.38 | 36.237 | 26.61 |
| 550 | 15.32 | 36.054 | 26.71 |
| 600 | 14.40 | 35.913 | 26.81 |
| 650 | 13.59 | 35.789 | 26.88 |
| 700 | 12.48 | 35.618 | 26.98 |
| 750 | 11.33 | 35.454 | 27.07 |
| 800 | 10.19 | 35.311 | 27.16 |
| 850 | 8.93 | 35.170 | 27.26 |
| 900 | 8.15 | 35.135 | 27.36 |
| 950 | 7.27 | 35.101 | 27.46 |
| 1000 | 6.46 | 35.081 | 27.56 |
| 1500 | 4.23 | 35.001 | 27.76 |
| 2000 | 3.65 | 34.982 | 27.81 |
| 2500 | 3.14 | 34.956 | 27.84 |
| 3000 | 2.85 | 34.928 | 27.86 |
| 3500 | 2.37 | 34.909 | 27.87 |
| 4000 | 2.26 | 34.897 | 27.87 |
| 4500 | 2.22 | 34.887 | 27.86 |
| 4636 | 2.21 | 34.882 | 27.86 |

RES-STACS28-87 CTD 10 RESEARCHER
Date 09 05 87 Latitude 24.270 N
Time 2220 Z Longitude 72.023 W



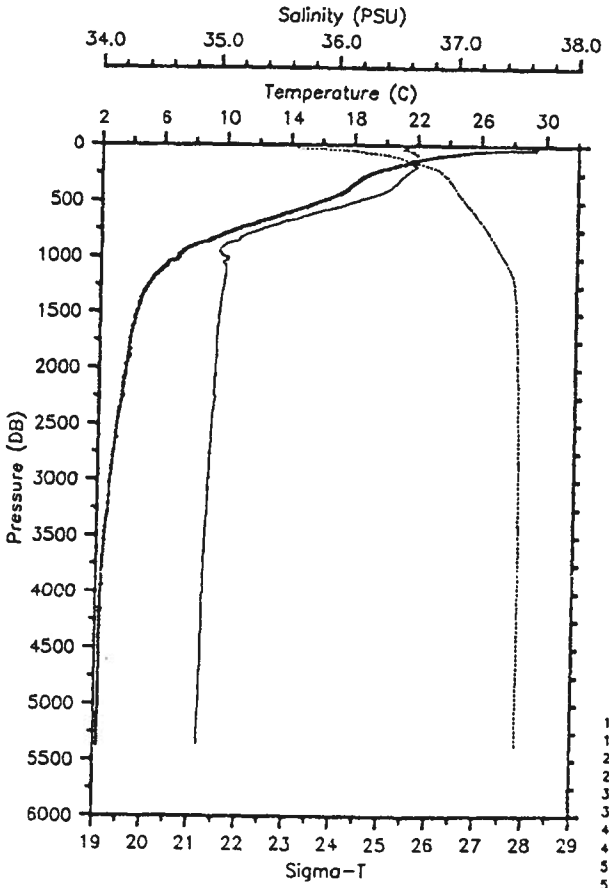

| Prs | Tem | Sal | SigT |
|---|---|---|---|
| 0 | 29.53 | 36.448 | 22.98 |
| 10 | 29.40 | 36.440 | 23.01 |
| 20 | 29.38 | 36.440 | 23.02 |
| 30 | 29.21 | 36.482 | 23.11 |
| 40 | 27.22 | 36.496 | 23.78 |
| 50 | 26.28 | 36.574 | 24.14 |
| 60 | 25.56 | 36.657 | 24.42 |
| 70 | 24.51 | 36.614 | 24.71 |
| 80 | 24.10 | 36.629 | 24.85 |
| 90 | 23.87 | 36.709 | 24.97 |
| 100 | 23.43 | 36.724 | 25.12 |
| 110 | 23.01 | 36.732 | 25.25 |
| 120 | 22.41 | 36.696 | 25.39 |
| 130 | 21.88 | 36.638 | 25.50 |
| 140 | 21.63 | 36.652 | 25.58 |
| 150 | 21.42 | 36.684 | 25.66 |
| 160 | 20.87 | 36.627 | 25.77 |
| 170 | 20.40 | 36.600 | 25.88 |
| 180 | 20.04 | 36.601 | 25.97 |
| 190 | 19.99 | 36.647 | 26.02 |
| 200 | 19.67 | 36.592 | 26.07 |
| 250 | 18.83 | 36.560 | 26.26 |
| 300 | 18.41 | 36.520 | 26.33 |
| 350 | 18.00 | 36.477 | 26.41 |
| 400 | 17.58 | 36.426 | 26.47 |
| 450 | 16.97 | 36.325 | 26.54 |
| 500 | 16.14 | 36.185 | 26.63 |
| 550 | 15.34 | 36.065 | 26.72 |
| 600 | 14.18 | 35.871 | 26.82 |
| 650 | 13.16 | 35.716 | 26.92 |
| 700 | 12.09 | 35.563 | 27.01 |
| 750 | 10.88 | 35.387 | 27.11 |
| 800 | 9.83 | 35.262 | 27.19 |
| 850 | 8.95 | 35.162 | 27.25 |
| 900 | 8.16 | 35.089 | 27.32 |
| 950 | 7.52 | 35.051 | 27.39 |
| 1000 | 6.99 | 35.023 | 27.44 |
| 1500 | 4.42 | 35.006 | 27.75 |
| 2000 | 3.80 | 34.987 | 27.80 |
| 2500 | 3.28 | 34.962 | 27.83 |
| 3000 | 2.90 | 34.939 | 27.85 |
| 3500 | 2.55 | 34.920 | 27.86 |
| 4000 | 2.39 | 34.907 | 27.87 |
| 4500 | 2.33 | 34.897 | 27.86 |
| 5000 | 2.32 | 34.890 | 27.86 |
| 5500 | 2.23 | 34.869 | 27.85 |
| 5596 | 2.17 | 34.860 | 27.85 |

RES-STACS28-87 CTD 11 RESEARCHER
Date 09 06 87 Latitude 23.917 N
Time 0313 Z Longitude 72.183 W



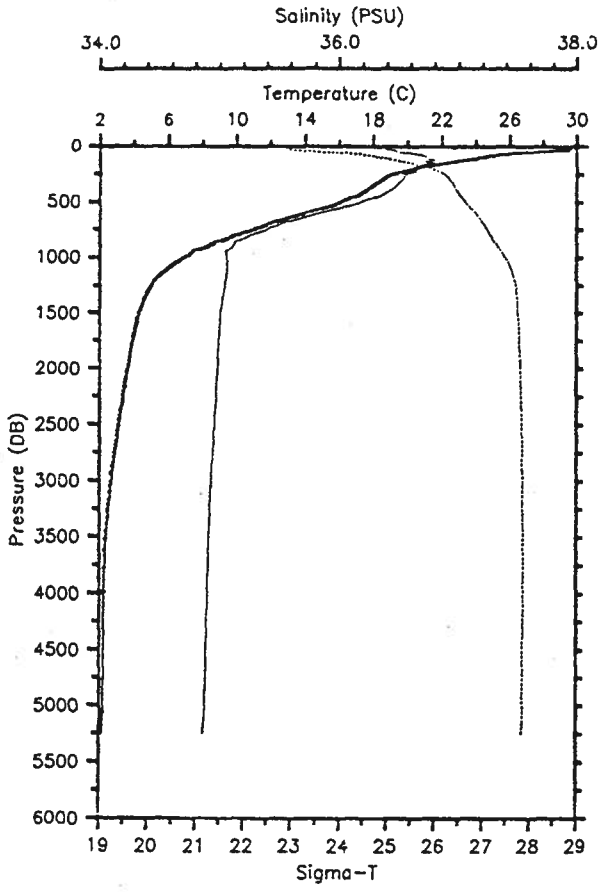

| Prs | Tem | Sal | SigT |
|---|---|---|---|
| 0 | 29.72 | 36.579 | 23.01 |
| 10 | 29.62 | 36.578 | 23.04 |
| 20 | 29.44 | 36.584 | 23.11 |
| 30 | 29.39 | 36.580 | 23.12 |
| 40 | 27.98 | 36.588 | 23.60 |
| 50 | 26.43 | 36.592 | 24.10 |
| 60 | 25.53 | 36.645 | 24.42 |
| 70 | 24.96 | 36.630 | 24.59 |
| 80 | 24.35 | 36.629 | 24.77 |
| 90 | 23.78 | 36.635 | 24.95 |
| 100 | 23.48 | 36.723 | 25.10 |
| 110 | 23.10 | 36.732 | 25.22 |
| 120 | 22.70 | 36.722 | 25.33 |
| 130 | 22.16 | 36.655 | 25.43 |
| 140 | 21.98 | 36.719 | 25.53 |
| 150 | 21.82 | 36.764 | 25.61 |
| 160 | 21.28 | 36.683 | 25.70 |
| 170 | 20.85 | 36.640 | 25.78 |
| 180 | 20.59 | 36.648 | 25.86 |
| 190 | 20.36 | 36.628 | 25.91 |
| 200 | 20.09 | 36.613 | 25.97 |
| 250 | 18.97 | 36.549 | 26.22 |
| 300 | 18.37 | 36.520 | 26.34 |
| 350 | 17.96 | 36.484 | 26.42 |
| 400 | 17.42 | 36.410 | 26.50 |
| 450 | 16.86 | 36.320 | 26.56 |
| 500 | 16.09 | 36.186 | 26.64 |
| 550 | 15.00 | 36.009 | 26.75 |
| 600 | 13.95 | 35.843 | 26.85 |
| 650 | 12.56 | 35.604 | 26.95 |
| 700 | 11.65 | 35.500 | 27.05 |
| 750 | 10.63 | 35.364 | 27.13 |
| 800 | 9.65 | 35.236 | 27.20 |
| 850 | 8.66 | 35.120 | 27.27 |
| 900 | 7.95 | 35.056 | 27.33 |
| 950 | 7.41 | 35.061 | 27.41 |
| 1000 | 6.71 | 35.025 | 27.48 |
| 1500 | 4.24 | 34.999 | 27.76 |
| 2000 | 3.78 | 34.983 | 27.80 |
| 2500 | 3.37 | 34.965 | 27.82 |
| 3000 | 2.99 | 34.943 | 27.84 |
| 3500 | 2.56 | 34.925 | 27.86 |
| 4000 | 2.41 | 34.907 | 27.86 |
| 4500 | 2.36 | 34.900 | 27.86 |
| 5000 | 2.34 | 34.892 | 27.86 |
| 5500 | 2.31 | 34.880 | 27.85 |
| 5510 | 2.31 | 34.880 | 27.85 |

RES-STACS28-87 CTD 12 RESEARCHER
Date 09 06 87 Latitude 23.570 N
Time 0827 Z Longitude 72.332 W



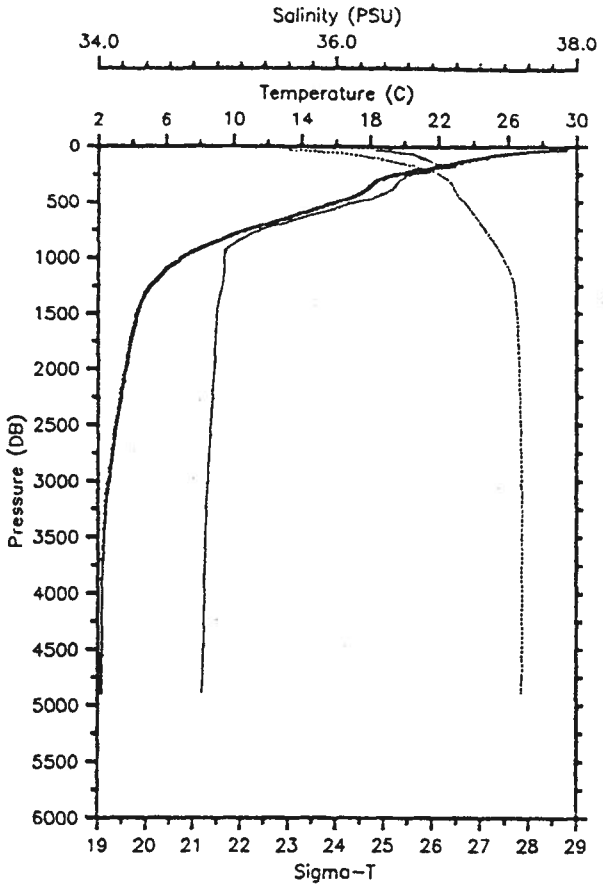

| Prs | Tem | Sal | SigT |
|---|---|---|---|
| 0 | 29.50 | 36.560 | 23.07 |
| 10 | 29.37 | 36.560 | 23.11 |
| 20 | 29.33 | 36.562 | 23.13 |
| 30 | 29.34 | 36.579 | 23.14 |
| 40 | 27.76 | 36.520 | 23.62 |
| 50 | 26.33 | 36.589 | 24.13 |
| 60 | 25.46 | 36.628 | 24.43 |
| 70 | 24.84 | 36.617 | 24.62 |
| 80 | 24.20 | 36.670 | 24.85 |
| 90 | 23.75 | 36.669 | 24.98 |
| 100 | 23.25 | 36.652 | 25.12 |
| 110 | 22.92 | 36.641 | 25.20 |
| 120 | 22.50 | 36.633 | 25.32 |
| 130 | 22.10 | 36.607 | 25.41 |
| 140 | 21.81 | 36.591 | 25.48 |
| 150 | 21.62 | 36.628 | 25.57 |
| 160 | 21.24 | 36.601 | 25.65 |
| 170 | 21.12 | 36.635 | 25.71 |
| 180 | 20.77 | 36.636 | 25.80 |
| 190 | 20.58 | 36.665 | 25.88 |
| 200 | 20.29 | 36.656 | 25.95 |
| 250 | 19.09 | 36.582 | 26.21 |
| 300 | 18.48 | 36.530 | 26.33 |
| 350 | 18.00 | 36.486 | 26.41 |
| 400 | 17.53 | 36.423 | 26.48 |
| 450 | 16.85 | 36.311 | 26.56 |
| 500 | 16.01 | 36.174 | 26.65 |
| 550 | 15.04 | 36.019 | 26.75 |
| 600 | 13.96 | 35.849 | 26.85 |
| 650 | 12.92 | 35.688 | 26.94 |
| 700 | 11.76 | 35.518 | 27.04 |
| 750 | 10.67 | 35.366 | 27.12 |
| 800 | 9.74 | 35.244 | 27.19 |
| 850 | 8.97 | 35.175 | 27.26 |
| 900 | 7.87 | 35.040 | 27.32 |
| 950 | 7.26 | 35.008 | 27.39 |
| 1000 | 6.95 | 35.054 | 27.47 |
| 1500 | 4.35 | 35.014 | 27.76 |
| 2000 | 3.75 | 34.988 | 27.80 |
| 2500 | 3.20 | 34.957 | 27.83 |
| 3000 | 2.79 | 34.936 | 27.85 |
| 3500 | 2.51 | 34.918 | 27.86 |
| 4000 | 2.33 | 34.903 | 27.87 |
| 4500 | 2.29 | 34.895 | 27.86 |
| 5000 | 2.28 | 34.887 | 27.88 |
| 5358 | 2.24 | 34.875 | 27.85 |

RES-STACS28-87 CTD 13 RESEARCHER
Date 09 06 87 Latitude 23.263 N
Time 1252 Z Longitude 72.450 W



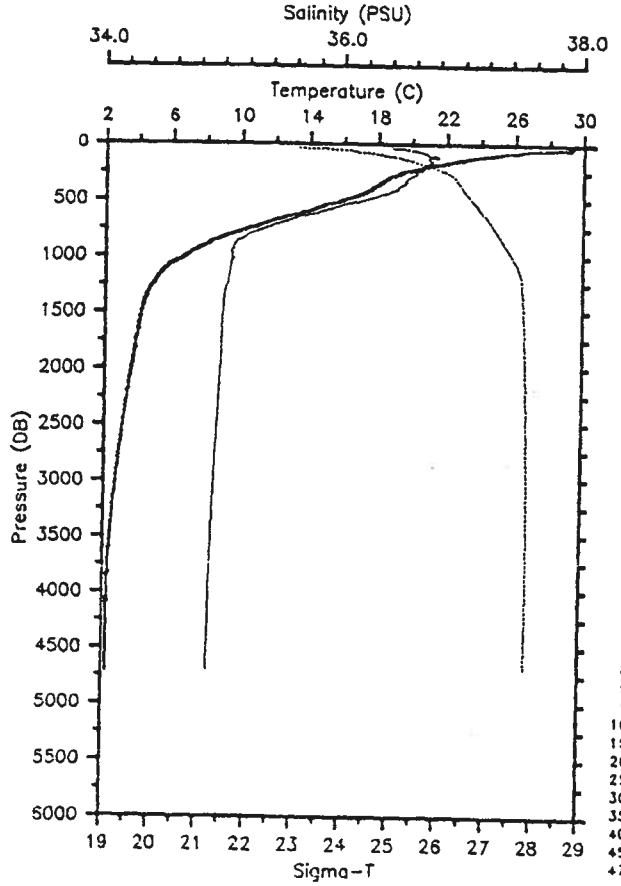

| Prs | Tem | Sal | SigT |
|---|---|---|---|
| 0 | 29.51 | 36.392 | 22.94 |
| 10 | 29.50 | 36.391 | 22.94 |
| 20 | 29.50 | 36.391 | 22.94 |
| 30 | 29.51 | 36.407 | 22.95 |
| 40 | 28.91 | 36.481 | 23.21 |
| 50 | 28.05 | 36.479 | 23.49 |
| 60 | 26.61 | 36.545 | 24.01 |
| 70 | 25.75 | 36.653 | 24.36 |
| 80 | 25.00 | 36.696 | 24.62 |
| 90 | 24.66 | 36.718 | 24.74 |
| 100 | 24.23 | 36.733 | 24.89 |
| 110 | 23.97 | 36.749 | 24.98 |
| 120 | 23.55 | 36.801 | 25.14 |
| 130 | 23.04 | 36.775 | 25.27 |
| 140 | 22.53 | 36.745 | 25.40 |
| 150 | 22.14 | 36.772 | 25.53 |
| 160 | 21.73 | 36.735 | 25.62 |
| 170 | 21.29 | 36.692 | 25.70 |
| 180 | 20.91 | 36.665 | 25.78 |
| 190 | 20.53 | 36.625 | 25.86 |
| 200 | 20.35 | 36.657 | 25.93 |
| 250 | 19.01 | 36.557 | 26.21 |
| 300 | 18.48 | 36.524 | 26.32 |
| 350 | 17.99 | 36.478 | 26.41 |
| 400 | 17.51 | 36.415 | 26.48 |
| 450 | 16.88 | 36.317 | 26.56 |
| 500 | 16.06 | 36.178 | 26.64 |
| 550 | 15.04 | 36.013 | 26.75 |
| 600 | 13.88 | 35.834 | 26.86 |
| 650 | 12.84 | 35.675 | 26.95 |
| 700 | 11.79 | 35.515 | 27.03 |
| 750 | 10.87 | 35.390 | 27.10 |
| 800 | 9.85 | 35.261 | 27.18 |
| 850 | 8.92 | 35.152 | 27.25 |
| 900 | 8.26 | 35.110 | 27.32 |
| 950 | 7.36 | 35.051 | 27.41 |
| 1000 | 6.85 | 35.053 | 27.48 |
| 1500 | 4.33 | 35.009 | 27.76 |
| 2000 | 3.66 | 34.983 | 27.81 |
| 2500 | 3.16 | 34.958 | 27.84 |
| 3000 | 2.70 | 34.931 | 27.86 |
| 3500 | 2.41 | 34.912 | 27.87 |
| 4000 | 2.30 | 34.901 | 27.87 |
| 4500 | 2.27 | 34.893 | 27.86 |
| 5000 | 2.25 | 34.881 | 27.86 |
| 5242 | 2.17 | 34.868 | 27.85 |

RES-STACS28-87 CTD 14 RESEARCHER
Date 09 06 87 Latitude 22.945 N
Time 1718 Z Longitude 72.587 W



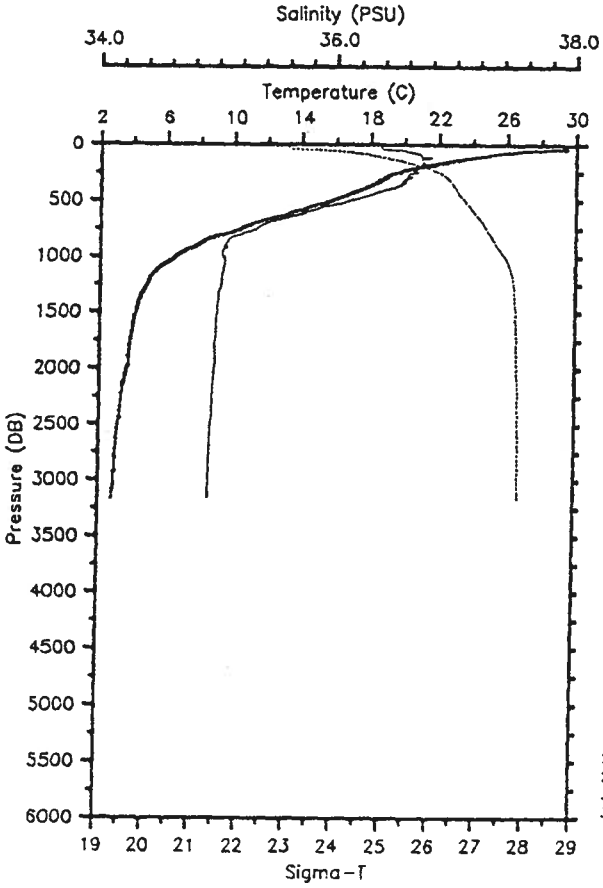

| Prs | Tem | Sal | SigT |
|---|---|---|---|
| 0 | 29.70 | 36.454 | 22.92 |
| 10 | 29.44 | 36.448 | 23.01 |
| 20 | 29.42 | 36.448 | 23.01 |
| 30 | 29.42 | 36.449 | 23.01 |
| 40 | 28.62 | 36.334 | 23.20 |
| 50 | 27.43 | 36.477 | 23.69 |
| 60 | 26.49 | 36.594 | 24.08 |
| 70 | 25.92 | 36.646 | 24.30 |
| 80 | 25.41 | 36.651 | 24.47 |
| 90 | 24.92 | 36.682 | 24.64 |
| 100 | 24.46 | 36.694 | 24.79 |
| 110 | 24.22 | 36.769 | 24.92 |
| 120 | 23.81 | 36.770 | 25.04 |
| 130 | 23.44 | 36.791 | 25.17 |
| 140 | 23.14 | 36.809 | 25.27 |
| 150 | 22.86 | 36.868 | 25.39 |
| 160 | 22.30 | 36.824 | 25.52 |
| 170 | 21.90 | 36.817 | 25.63 |
| 180 | 22.15 | 36.883 | 25.69 |
| 190 | 21.46 | 36.845 | 25.77 |
| 200 | 20.99 | 36.756 | 25.84 |
| 250 | 19.30 | 36.597 | 26.17 |
| 300 | 18.41 | 36.527 | 26.34 |
| 350 | 17.96 | 36.487 | 26.42 |
| 400 | 17.49 | 36.428 | 26.49 |
| 450 | 16.89 | 36.330 | 26.56 |
| 500 | 15.87 | 36.155 | 26.67 |
| 550 | 14.88 | 35.994 | 26.77 |
| 600 | 13.93 | 35.845 | 26.86 |
| 650 | 12.98 | 35.696 | 26.94 |
| 700 | 11.97 | 35.547 | 27.02 |
| 750 | 10.66 | 35.365 | 27.12 |
| 800 | 9.83 | 35.266 | 27.19 |
| 850 | 9.01 | 35.180 | 27.26 |
| 900 | 8.18 | 35.108 | 27.33 |
| 950 | 7.53 | 35.069 | 27.40 |
| 1000 | 6.86 | 35.062 | 27.49 |
| 1500 | 4.31 | 35.002 | 27.76 |
| 2000 | 3.66 | 34.981 | 27.81 |
| 2500 | 3.09 | 34.952 | 27.84 |
| 3000 | 2.65 | 34.927 | 27.86 |
| 3500 | 2.37 | 34.909 | 27.87 |
| 4000 | 2.29 | 34.900 | 27.87 |
| 4500 | 2.26 | 34.892 | 27.86 |
| 4884 | 2.23 | 34.882 | 27.86 |

RES-STACS28-87 CTD 15 RESEARCHER
Date 09 06 87 Latitude 22.700 N
Time 2108 Z Longitude 72.682 W



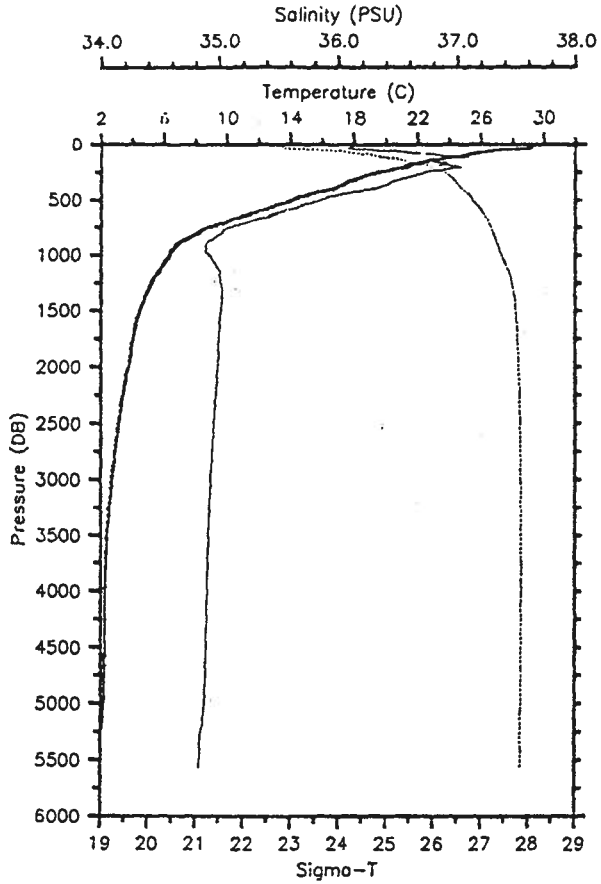

| Prs | Tem | Sal | SigT |
|---|---|---|---|
| 0 | 29.70 | 36.401 | 22.88 |
| 10 | 29.28 | 36.389 | 23.01 |
| 20 | 29.24 | 36.390 | 23.03 |
| 30 | 29.23 | 36.394 | 23.04 |
| 40 | 29.22 | 36.409 | 23.05 |
| 50 | 27.38 | 36.511 | 23.73 |
| 60 | 26.53 | 36.601 | 24.08 |
| 70 | 26.12 | 36.629 | 24.23 |
| 80 | 25.42 | 36.670 | 24.48 |
| 90 | 24.94 | 36.691 | 24.64 |
| 100 | 24.45 | 36.708 | 24.80 |
| 110 | 24.07 | 36.777 | 24.97 |
| 120 | 23.40 | 36.721 | 25.12 |
| 130 | 23.02 | 36.697 | 25.22 |
| 140 | 22.74 | 36.710 | 25.31 |
| 150 | 22.42 | 36.742 | 25.42 |
| 160 | 22.08 | 36.733 | 25.52 |
| 170 | 21.78 | 36.724 | 25.59 |
| 180 | 21.30 | 36.695 | 25.70 |
| 190 | 21.03 | 36.696 | 25.78 |
| 200 | 20.62 | 36.663 | 25.86 |
| 250 | 19.43 | 36.590 | 26.13 |
| 300 | 18.56 | 36.540 | 26.31 |
| 350 | 18.13 | 36.517 | 26.40 |
| 400 | 17.62 | 36.454 | 26.48 |
| 450 | 16.85 | 36.328 | 26.57 |
| 500 | 15.93 | 36.165 | 26.66 |
| 550 | 14.79 | 35.975 | 26.77 |
| 600 | 13.83 | 35.822 | 26.86 |
| 650 | 12.48 | 35.819 | 26.98 |
| 700 | 11.50 | 35.480 | 27.06 |
| 750 | 10.46 | 35.342 | 27.14 |
| 800 | 9.49 | 35.228 | 27.22 |
| 850 | 8.67 | 35.153 | 27.28 |
| 900 | 7.93 | 35.093 | 27.36 |
| 950 | 7.23 | 35.057 | 27.43 |
| 1000 | 6.78 | 35.072 | 27.51 |
| 1500 | 4.20 | 34.997 | 27.76 |
| 2000 | 3.65 | 34.982 | 27.81 |
| 2500 | 3.14 | 34.955 | 27.84 |
| 3000 | 2.75 | 34.934 | 27.86 |
| 3500 | 2.45 | 34.915 | 27.87 |
| 4000 | 2.31 | 34.902 | 27.87 |
| 4500 | 2.28 | 34.895 | 27.86 |
| 4704 | 2.27 | 34.891 | 27.86 |

RES-STACS28-87 CTD 16 RESEARCHER
Date 09 06 87 Latitude 22.467 N
Time 2338 Z Longitude 72.767 W



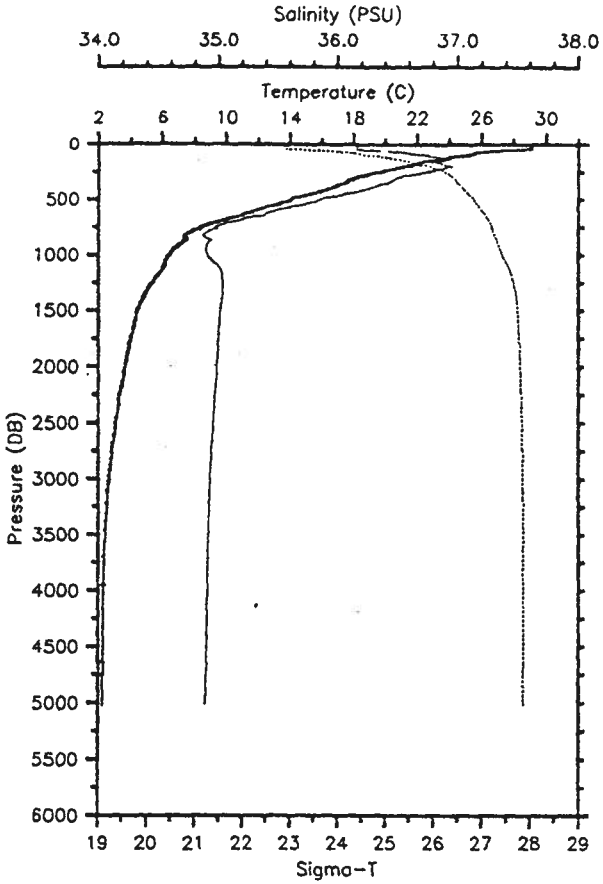

| Prs | Tem | Sal | SigT |
|---|---|---|---|
| 0 | 29.36 | 36.296 | 22.92 |
| 10 | 29.31 | 36.357 | 22.98 |
| 20 | 29.32 | 36.366 | 22.99 |
| 30 | 29.31 | 36.366 | 22.99 |
| 40 | 29.28 | 36.405 | 23.03 |
| 50 | 27.69 | 36.478 | 23.61 |
| 60 | 26.69 | 36.571 | 24.00 |
| 70 | 26.13 | 36.629 | 24.22 |
| 80 | 25.53 | 36.670 | 24.44 |
| 90 | 24.95 | 36.688 | 24.63 |
| 100 | 24.67 | 36.705 | 24.73 |
| 110 | 24.23 | 36.706 | 24.87 |
| 120 | 23.89 | 36.776 | 25.02 |
| 130 | 23.34 | 36.702 | 25.13 |
| 140 | 23.02 | 36.718 | 25.23 |
| 150 | 22.60 | 36.718 | 25.35 |
| 160 | 22.26 | 36.730 | 25.46 |
| 170 | 21.78 | 36.704 | 25.58 |
| 180 | 21.58 | 36.738 | 25.66 |
| 190 | 21.43 | 36.785 | 25.74 |
| 200 | 20.93 | 36.734 | 25.83 |
| 250 | 19.68 | 36.675 | 26.13 |
| 300 | 18.76 | 36.606 | 26.31 |
| 350 | 18.17 | 36.547 | 26.42 |
| 400 | 17.44 | 36.434 | 26.51 |
| 450 | 16.64 | 36.288 | 26.59 |
| 500 | 15.67 | 36.124 | 26.69 |
| 550 | 14.57 | 35.930 | 26.79 |
| 600 | 13.51 | 35.749 | 26.87 |
| 650 | 12.40 | 35.605 | 26.98 |
| 700 | 11.17 | 35.427 | 27.08 |
| 750 | 10.38 | 35.334 | 27.15 |
| 800 | 9.39 | 35.214 | 27.22 |
| 850 | 8.29 | 35.093 | 27.30 |
| 900 | 7.73 | 35.061 | 27.36 |
| 950 | 7.04 | 35.047 | 27.45 |
| 1000 | 6.46 | 35.042 | 27.53 |
| 1500 | 4.18 | 35.001 | 27.77 |
| 2000 | 3.70 | 34.982 | 27.80 |
| 2500 | 3.16 | 34.956 | 27.83 |
| 3000 | 2.95 | 34.943 | 27.84 |
| 3162 | 2.84 | 34.936 | 27.85 |

RES-STACS28-87 CTD 17 RESEARCHER
Date 09 08 87 Latitude 21.000 N
Time 0937 Z Longitude 66.133 W




| Prs | Tem | Sal | SigT |
|---|---|---|---|
| 0 | 29.24 | 36.116 | 22.82 |
| 10 | 29.23 | 36.114 | 22.83 |
| 20 | 29.23 | 36.115 | 22.83 |
| 30 | 29.19 | 36.111 | 22.84 |
| 40 | 28.99 | 36.124 | 22.91 |
| 50 | 27.52 | 36.277 | 23.52 |
| 60 | 26.46 | 36.494 | 24.02 |
| 70 | 25.98 | 36.607 | 24.26 |
| 80 | 25.63 | 36.689 | 24.42 |
| 90 | 25.25 | 36.839 | 24.66 |
| 100 | 24.91 | 36.872 | 24.79 |
| 110 | 24.75 | 36.948 | 24.89 |
| 120 | 23.77 | 36.881 | 25.14 |
| 130 | 23.30 | 36.881 | 25.28 |
| 140 | 22.73 | 36.808 | 25.39 |
| 150 | 22.57 | 36.798 | 25.42 |
| 160 | 22.22 | 36.855 | 25.57 |
| 170 | 22.14 | 36.921 | 25.64 |
| 180 | 21.48 | 36.868 | 25.78 |
| 190 | 21.47 | 36.996 | 25.88 |
| 200 | 21.26 | 37.002 | 25.95 |
| 250 | 19.40 | 36.733 | 26.24 |
| 300 | 18.27 | 36.566 | 26.41 |
| 350 | 17.41 | 36.426 | 26.51 |
| 400 | 16.53 | 36.285 | 26.61 |
| 450 | 15.03 | 36.011 | 26.75 |
| 500 | 13.98 | 35.836 | 26.84 |
| 550 | 13.02 | 35.706 | 26.94 |
| 600 | 11.94 | 35.544 | 27.02 |
| 650 | 10.98 | 35.415 | 27.10 |
| 700 | 9.88 | 35.247 | 27.17 |
| 750 | 8.74 | 35.085 | 27.23 |
| 800 | 8.16 | 35.024 | 27.27 |
| 850 | 7.51 | 34.956 | 27.31 |
| 900 | 6.85 | 34.887 | 27.35 |
| 950 | 6.57 | 34.887 | 27.39 |
| 1000 | 6.34 | 34.911 | 27.44 |
| 1500 | 4.50 | 35.016 | 27.74 |
| 2000 | 3.77 | 34.989 | 27.80 |
| 2500 | 3.16 | 34.956 | 27.83 |
| 3000 | 2.74 | 34.931 | 27.85 |
| 3500 | 2.45 | 34.912 | 27.86 |
| 4000 | 2.32 | 34.901 | 27.87 |
| 4500 | 2.29 | 34.893 | 27.86 |
| 5000 | 2.23 | 34.877 | 27.85 |
| 5500 | 1.97 | 34.837 | 27.84 |
| 5568 | 1.97 | 34.835 | 27.84 |

RES-STACS28-87 CTD 18 RESEARCHER
Date 09 08 87 Latitude 20.495 N
Time 1522 Z Longitude 66.117 W

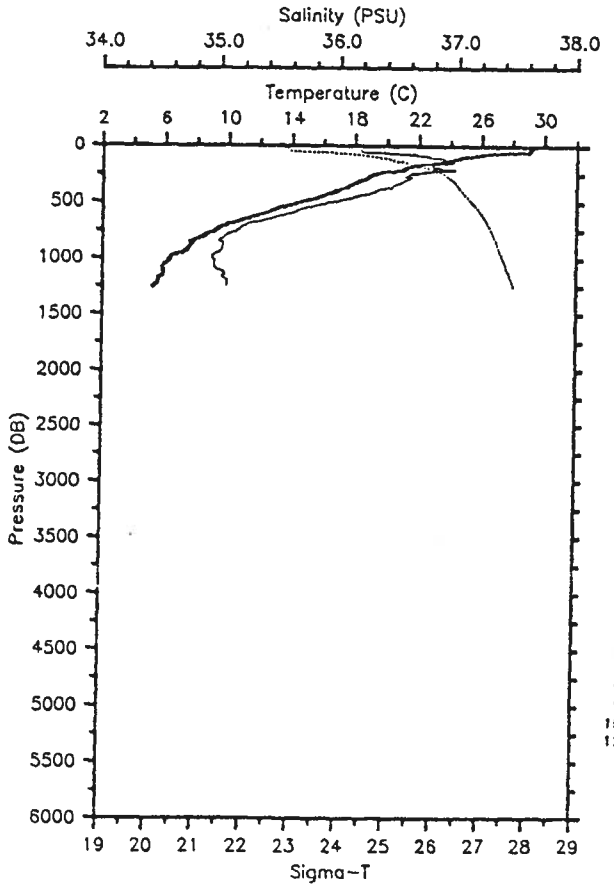



| Prs | Tem | Sal | SigT |
|---|---|---|---|
| 0 | 29.17 | 36.168 | 22.89 |
| 10 | 29.15 | 36.167 | 22.89 |
| 20 | 29.15 | 36.167 | 22.89 |
| 30 | 29.15 | 36.168 | 22.89 |
| 40 | 29.08 | 36.159 | 22.91 |
| 50 | 28.45 | 36.191 | 23.14 |
| 60 | 27.01 | 36.359 | 23.74 |
| 70 | 26.02 | 36.534 | 24.19 |
| 80 | 25.62 | 36.605 | 24.37 |
| 90 | 25.31 | 36.677 | 24.52 |
| 100 | 24.97 | 36.751 | 24.68 |
| 110 | 24.33 | 36.785 | 24.90 |
| 120 | 23.85 | 36.895 | 25.12 |
| 130 | 23.64 | 36.941 | 25.22 |
| 140 | 23.22 | 36.908 | 25.32 |
| 150 | 22.58 | 36.853 | 25.46 |
| 160 | 22.15 | 36.828 | 25.57 |
| 170 | 21.96 | 36.841 | 25.63 |
| 180 | 21.67 | 36.867 | 25.73 |
| 190 | 21.43 | 36.933 | 25.85 |
| 200 | 21.12 | 36.956 | 25.95 |
| 250 | 19.37 | 36.732 | 26.25 |
| 300 | 18.02 | 36.502 | 26.42 |
| 350 | 17.32 | 36.402 | 26.52 |
| 400 | 16.37 | 36.246 | 26.62 |
| 450 | 15.26 | 36.054 | 26.73 |
| 500 | 14.05 | 35.853 | 26.84 |
| 550 | 13.08 | 35.681 | 26.91 |
| 600 | 11.75 | 35.477 | 27.01 |
| 650 | 10.81 | 35.345 | 27.08 |
| 700 | 9.32 | 35.118 | 27.16 |
| 750 | 8.37 | 34.987 | 27.21 |
| 800 | 7.66 | 34.896 | 27.24 |
| 850 | 7.43 | 34.916 | 27.29 |
| 900 | 6.98 | 34.896 | 27.34 |
| 950 | 6.60 | 34.888 | 27.39 |
| 1000 | 6.45 | 34.905 | 27.42 |
| 1500 | 4.43 | 35.014 | 27.75 |
| 2000 | 3.69 | 34.987 | 27.81 |
| 2500 | 3.11 | 34.955 | 27.84 |
| 3000 | 2.68 | 34.928 | 27.86 |
| 3500 | 2.43 | 34.912 | 27.87 |
| 4000 | 2.35 | 34.903 | 27.87 |
| 4500 | 2.31 | 34.896 | 27.86 |
| 5000 | 2.30 | 34.888 | 27.86 |
| 5010 | 2.30 | 34.887 | 27.86 |

RES-STACS28-87 CTD 19 RESEARCHER

Date 09 08 87 Latitude 20.005 N

Time 1933 Z Longitude 66.130 W

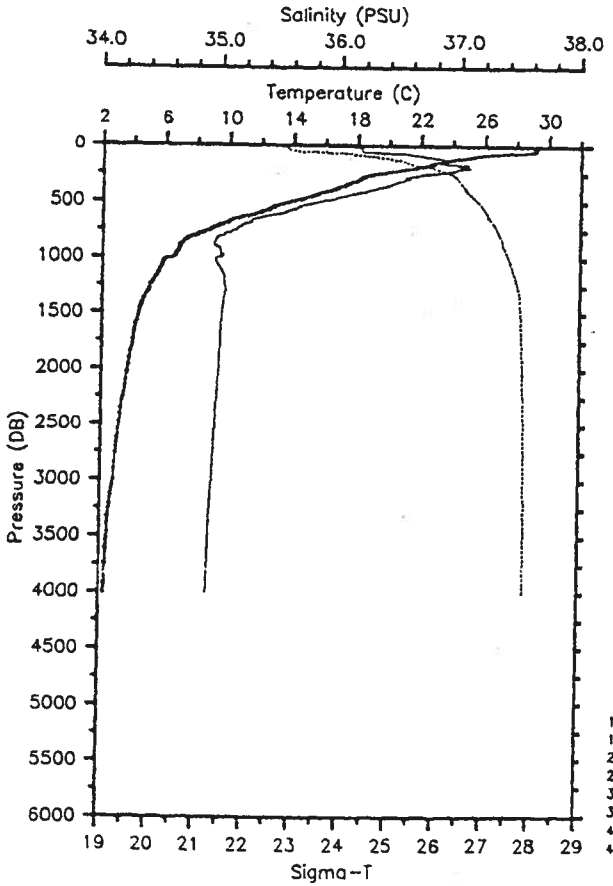



| Prs | Tem | Sal | SigT |
|---|---|---|---|
| 0 | 29.42 | 36.198 | 22.82 |
| 10 | 29.27 | 36.185 | 22.87 |
| 20 | 29.18 | 36.187 | 22.90 |
| 30 | 29.16 | 36.187 | 22.90 |
| 40 | 29.02 | 36.177 | 22.94 |
| 50 | 28.99 | 36.179 | 22.96 |
| 60 | 27.56 | 36.287 | 23.51 |
| 70 | 26.40 | 36.458 | 24.01 |
| 80 | 25.77 | 36.614 | 24.33 |
| 90 | 25.32 | 36.685 | 24.52 |
| 100 | 24.75 | 36.753 | 24.74 |
| 110 | 24.53 | 36.833 | 24.87 |
| 120 | 24.13 | 36.876 | 25.02 |
| 130 | 23.83 | 36.924 | 25.15 |
| 140 | 23.53 | 36.961 | 25.27 |
| 150 | 23.01 | 36.944 | 25.41 |
| 160 | 22.28 | 36.818 | 25.52 |
| 170 | 21.95 | 36.780 | 25.59 |
| 180 | 21.59 | 36.780 | 25.69 |
| 190 | 21.17 | 36.777 | 25.80 |
| 200 | 20.98 | 36.833 | 25.90 |
| 250 | 19.25 | 36.631 | 26.20 |
| 300 | 18.44 | 36.572 | 26.37 |
| 350 | 17.62 | 36.452 | 26.48 |
| 400 | 16.76 | 36.308 | 26.58 |
| 450 | 15.77 | 36.147 | 26.68 |
| 500 | 14.57 | 35.943 | 26.79 |
| 550 | 13.19 | 35.718 | 26.91 |
| 600 | 12.25 | 35.587 | 27.00 |
| 650 | 11.20 | 35.430 | 27.07 |
| 700 | 9.87 | 35.223 | 27.15 |
| 750 | 9.14 | 35.137 | 27.20 |
| 800 | 8.39 | 35.045 | 27.25 |
| 850 | 7.64 | 34.985 | 27.32 |
| 900 | 7.49 | 35.016 | 27.36 |
| 950 | 7.02 | 34.983 | 27.40 |
| 1000 | 6.30 | 34.929 | 27.46 |
| 1252 | 5.22 | 35.049 | 27.69 |

RES-STACS28-87 CTD 20 RESEARCHER

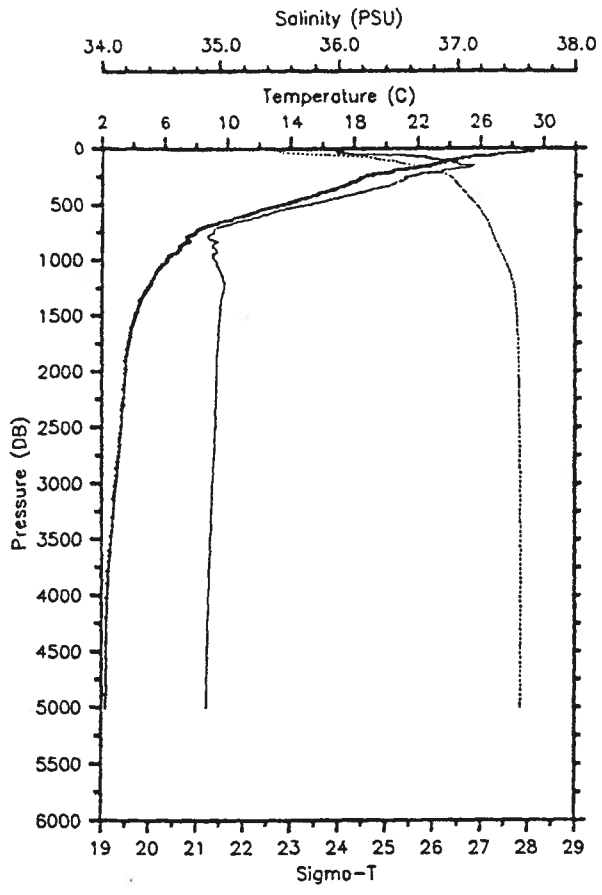
Date 09 09 87 Latitude 19.503 N

Time 0347 Z Longitude 66.128 W



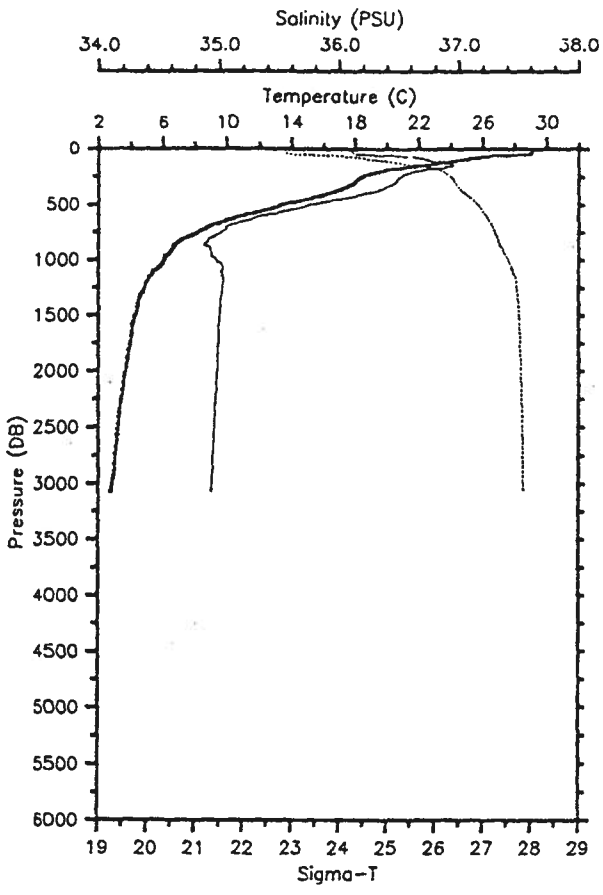

| Prs | Tem | Sal | SigT |
|---|---|---|---|
| 0 | 29.25 | 35.951 | 22.70 |
| 10 | 29.26 | 35.955 | 22.70 |
| 20 | 29.23 | 36.127 | 22.83 |
| 30 | 29.14 | 36.171 | 22.90 |
| 40 | 29.05 | 36.160 | 22.92 |
| 50 | 29.01 | 36.166 | 22.94 |
| 60 | 28.02 | 36.200 | 23.29 |
| 70 | 26.65 | 36.464 | 23.94 |
| 80 | 25.83 | 36.622 | 24.31 |
| 90 | 25.39 | 36.673 | 24.49 |
| 100 | 24.99 | 36.704 | 24.63 |
| 110 | 24.39 | 36.803 | 24.89 |
| 120 | 24.03 | 36.868 | 25.05 |
| 130 | 23.54 | 36.879 | 25.20 |
| 140 | 23.06 | 36.814 | 25.30 |
| 150 | 22.77 | 36.847 | 25.40 |
| 160 | 22.58 | 36.879 | 25.48 |
| 170 | 22.63 | 37.055 | 25.60 |
| 180 | 22.10 | 36.995 | 25.71 |
| 190 | 21.73 | 36.991 | 25.81 |
| 200 | 21.35 | 37.045 | 25.96 |
| 250 | 19.26 | 36.741 | 26.29 |
| 300 | 18.06 | 36.533 | 26.43 |
| 350 | 17.26 | 36.403 | 26.53 |
| 400 | 16.25 | 36.229 | 26.64 |
| 450 | 15.14 | 36.038 | 26.74 |
| 500 | 13.82 | 35.827 | 26.87 |
| 550 | 12.73 | 35.654 | 26.95 |
| 600 | 11.82 | 35.523 | 27.03 |
| 650 | 10.47 | 35.309 | 27.11 |
| 700 | 9.52 | 35.206 | 27.19 |
| 750 | 8.83 | 35.130 | 27.25 |
| 800 | 7.87 | 35.015 | 27.31 |
| 850 | 7.17 | 34.948 | 27.35 |
| 900 | 6.87 | 34.958 | 27.40 |
| 950 | 6.71 | 34.992 | 27.45 |
| 1000 | 6.36 | 34.990 | 27.50 |
| 1500 | 4.31 | 35.009 | 27.76 |
| 2000 | 3.66 | 34.985 | 27.81 |
| 2500 | 3.13 | 34.957 | 27.84 |
| 3000 | 2.81 | 34.937 | 27.85 |
| 3500 | 2.47 | 34.916 | 27.86 |
| 4000 | 2.33 | 34.904 | 27.87 |
| 4004 | 2.33 | 34.904 | 27.87 |

RES-STACS28-87 CTD 21 RESEARCHER
Date 09 09 87 Latitude 19.172 N
Time 0757 Z Longitude 66.137 W



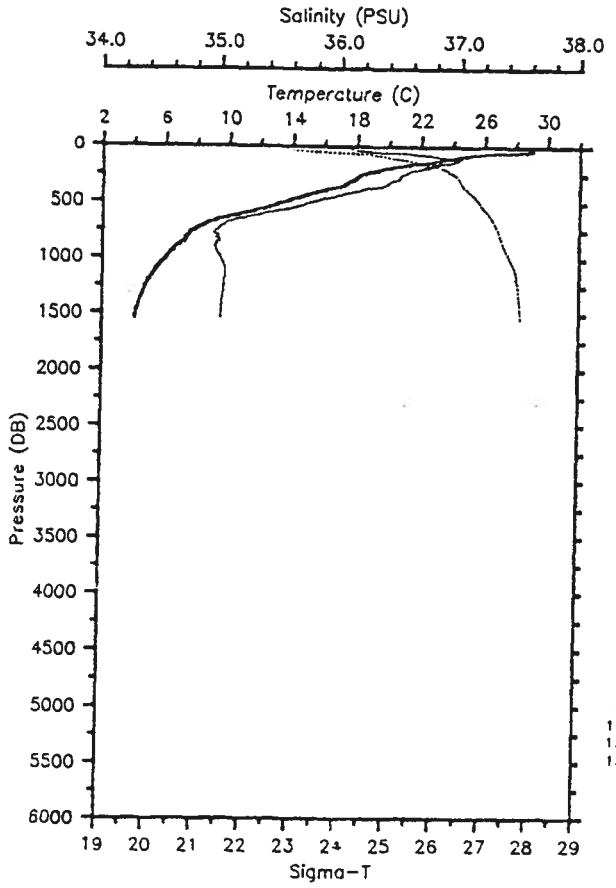

| Prs | Tem | Sal | SigT |
|---|---|---|---|
| 0 | 29.17 | 35.889 | 22.68 |
| 10 | 29.22 | 35.921 | 22.68 |
| 20 | 29.29 | 35.988 | 22.71 |
| 30 | 29.22 | 36.030 | 22.77 |
| 40 | 28.74 | 35.999 | 22.90 |
| 50 | 27.56 | 36.168 | 23.42 |
| 60 | 26.90 | 36.499 | 23.88 |
| 70 | 26.02 | 36.658 | 24.28 |
| 80 | 25.13 | 36.748 | 24.62 |
| 90 | 24.59 | 36.758 | 24.80 |
| 100 | 24.26 | 36.838 | 24.96 |
| 110 | 23.95 | 36.869 | 25.07 |
| 120 | 23.72 | 36.976 | 25.22 |
| 130 | 23.38 | 36.956 | 25.31 |
| 140 | 23.04 | 37.006 | 25.45 |
| 150 | 22.77 | 37.103 | 25.60 |
| 160 | 22.50 | 37.119 | 25.69 |
| 170 | 21.99 | 37.089 | 25.81 |
| 180 | 21.33 | 36.994 | 25.92 |
| 190 | 20.90 | 36.923 | 25.99 |
| 200 | 20.48 | 36.883 | 26.07 |
| 250 | 18.53 | 36.588 | 26.36 |
| 300 | 17.77 | 36.491 | 26.47 |
| 350 | 16.81 | 36.334 | 26.59 |
| 400 | 15.72 | 36.144 | 26.69 |
| 450 | 14.52 | 35.935 | 26.80 |
| 500 | 13.18 | 35.716 | 26.91 |
| 550 | 11.87 | 35.496 | 27.00 |
| 600 | 10.91 | 35.354 | 27.07 |
| 650 | 9.61 | 35.171 | 27.15 |
| 700 | 8.51 | 35.007 | 27.20 |
| 750 | 7.95 | 34.947 | 27.24 |
| 800 | 7.34 | 34.892 | 27.29 |
| 850 | 7.20 | 34.955 | 27.36 |
| 900 | 6.98 | 34.970 | 27.40 |
| 950 | 6.43 | 34.945 | 27.45 |
| 1000 | 6.12 | 34.951 | 27.50 |
| 1500 | 4.16 | 35.001 | 27.77 |
| 2000 | 3.52 | 34.976 | 27.82 |
| 2500 | 3.26 | 34.962 | 27.83 |
| 3000 | 2.92 | 34.942 | 27.85 |
| 3500 | 2.63 | 34.924 | 27.86 |
| 4000 | 2.41 | 34.908 | 27.86 |
| 4500 | 2.34 | 34.898 | 27.86 |
| 5000 | 2.32 | 34.891 | 27.86 |
| 5004 | 2.32 | 34.890 | 27.86 |

RES-STACS28-87 CTD 22 RESEARCHER
Date 09 09 87 Latitude 18.918 N
Time 1127 Z Longitude 66.103 W



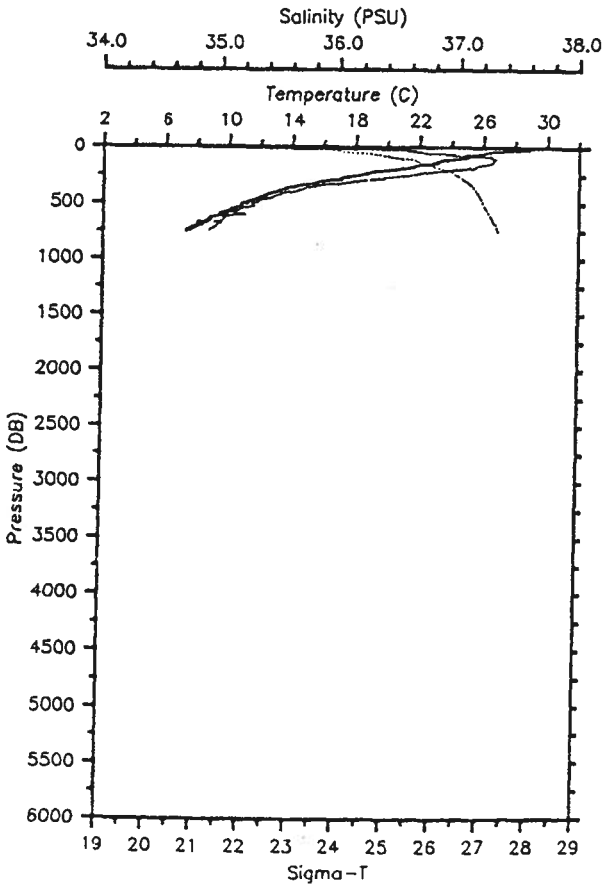

| Prs | Tem | Sal | SigT |
|---|---|---|---|
| 0 | 29.12 | 36.107 | 22.86 |
| 10 | 29.12 | 36.106 | 22.86 |
| 20 | 29.12 | 36.105 | 22.86 |
| 30 | 29.12 | 36.107 | 22.86 |
| 40 | 29.08 | 36.130 | 22.89 |
| 50 | 28.87 | 36.153 | 22.97 |
| 60 | 27.27 | 36.366 | 23.66 |
| 70 | 26.14 | 36.576 | 24.18 |
| 80 | 25.66 | 36.650 | 24.39 |
| 90 | 25.15 | 36.742 | 24.61 |
| 100 | 24.46 | 36.735 | 24.82 |
| 110 | 24.05 | 36.807 | 25.00 |
| 120 | 23.79 | 36.948 | 25.18 |
| 130 | 23.17 | 36.953 | 25.37 |
| 140 | 22.53 | 36.957 | 25.56 |
| 150 | 21.95 | 36.926 | 25.70 |
| 160 | 21.30 | 36.885 | 25.85 |
| 170 | 20.94 | 36.897 | 25.96 |
| 180 | 20.19 | 36.744 | 26.04 |
| 190 | 19.89 | 36.716 | 26.10 |
| 200 | 19.45 | 36.646 | 26.16 |
| 250 | 18.42 | 36.515 | 26.33 |
| 300 | 17.92 | 36.471 | 26.42 |
| 350 | 17.15 | 36.365 | 26.53 |
| 400 | 16.15 | 36.211 | 26.65 |
| 450 | 14.92 | 36.006 | 26.77 |
| 500 | 13.34 | 35.752 | 26.91 |
| 550 | 12.23 | 35.576 | 26.99 |
| 600 | 10.84 | 35.356 | 27.08 |
| 650 | 9.80 | 35.203 | 27.15 |
| 700 | 8.74 | 35.060 | 27.21 |
| 750 | 8.11 | 35.009 | 27.26 |
| 800 | 7.38 | 34.929 | 27.31 |
| 850 | 6.87 | 34.889 | 27.35 |
| 900 | 6.63 | 34.930 | 27.41 |
| 950 | 6.28 | 34.939 | 27.47 |
| 1000 | 6.02 | 34.976 | 27.53 |
| 1500 | 4.26 | 35.003 | 27.76 |
| 2000 | 3.68 | 34.985 | 27.81 |
| 2500 | 3.22 | 34.961 | 27.83 |
| 3000 | 2.88 | 34.941 | 27.85 |
| 3068 | 2.81 | 34.937 | 27.85 |

RES-STACS28-87 CTD 23 RESEARCHER
Date 09 09 87 Latitude 18.662 N
Time 1403 Z Longitude 66.108 W



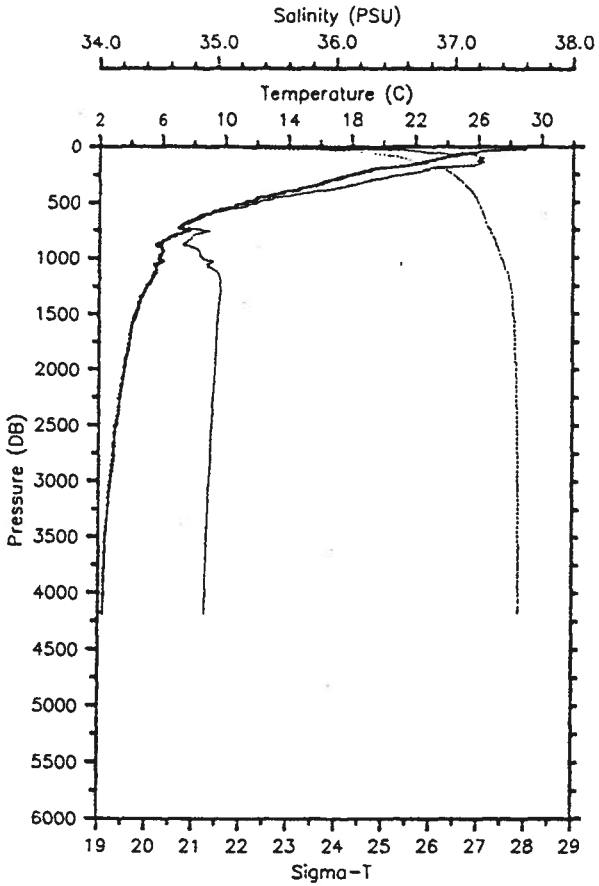

| Prs | Tem | Sal | SigT |
|---|---|---|---|
| 0 | 29.07 | 36.049 | 22.83 |
| 10 | 29.05 | 36.054 | 22.84 |
| 20 | 29.04 | 36.076 | 22.86 |
| 30 | 29.03 | 36.097 | 22.88 |
| 40 | 28.86 | 36.148 | 23.04 |
| 50 | 27.69 | 36.277 | 23.46 |
| 60 | 26.32 | 36.505 | 24.07 |
| 70 | 25.36 | 36.638 | 24.47 |
| 80 | 24.73 | 36.756 | 24.75 |
| 90 | 24.46 | 36.820 | 24.88 |
| 100 | 24.12 | 36.826 | 24.99 |
| 110 | 23.52 | 36.881 | 25.21 |
| 120 | 23.21 | 36.983 | 25.38 |
| 130 | 22.73 | 36.954 | 25.50 |
| 140 | 22.30 | 36.916 | 25.59 |
| 150 | 21.64 | 36.846 | 25.72 |
| 160 | 21.11 | 36.754 | 25.80 |
| 170 | 20.92 | 36.781 | 25.87 |
| 180 | 20.18 | 36.687 | 26.00 |
| 190 | 20.08 | 36.741 | 26.07 |
| 200 | 19.35 | 36.621 | 26.17 |
| 250 | 18.27 | 36.514 | 26.37 |
| 300 | 17.66 | 36.446 | 26.47 |
| 350 | 17.04 | 36.354 | 26.55 |
| 400 | 15.77 | 36.143 | 26.68 |
| 450 | 14.41 | 35.923 | 26.81 |
| 500 | 13.27 | 35.742 | 26.91 |
| 550 | 12.31 | 35.594 | 26.99 |
| 600 | 10.84 | 35.367 | 27.09 |
| 650 | 9.40 | 35.150 | 27.17 |
| 700 | 8.48 | 35.031 | 27.22 |
| 750 | 7.80 | 34.977 | 27.29 |
| 800 | 7.43 | 34.979 | 27.34 |
| 850 | 7.26 | 34.990 | 27.37 |
| 900 | 6.68 | 34.951 | 27.43 |
| 950 | 6.31 | 34.971 | 27.49 |
| 1000 | 6.05 | 34.998 | 27.55 |
| 1500 | 4.15 | 35.001 | 27.77 |
| 1538 | 4.09 | 34.999 | 27.78 |

RES-STACS28-87 CTD 24 RESEARCHER
Date 09 10 87 Latitude 17.750 N
Time 1205 Z Longitude 61.618 W



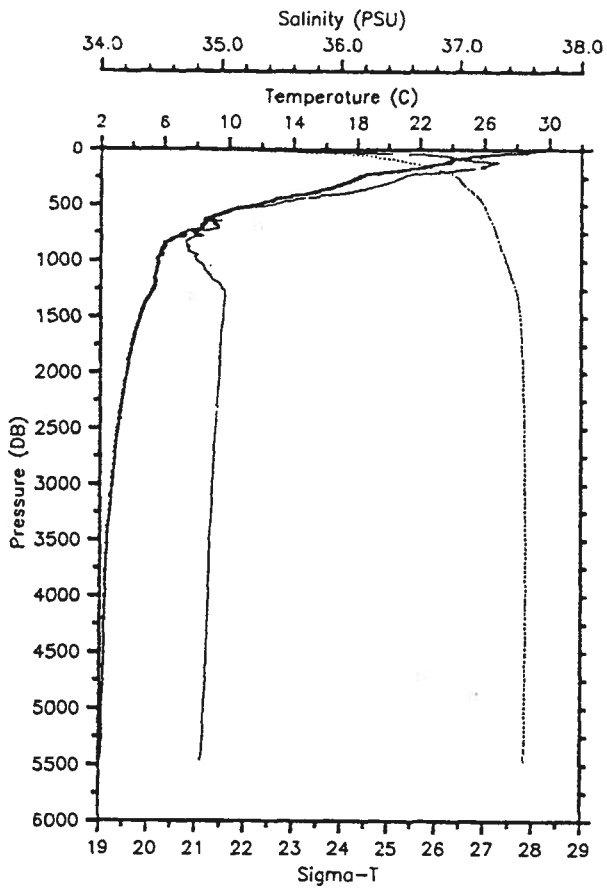

| Prs | Tem | Sal | SigT |
|---|---|---|---|
| 0 | 28.85 | 34.938 | 22.07 |
| 10 | 28.86 | 34.939 | 22.07 |
| 20 | 28.85 | 35.123 | 22.21 |
| 30 | 27.89 | 36.542 | 23.59 |
| 40 | 26.49 | 36.553 | 24.05 |
| 50 | 26.10 | 36.681 | 24.27 |
| 60 | 25.91 | 36.954 | 24.54 |
| 70 | 25.10 | 36.882 | 24.74 |
| 80 | 24.84 | 37.037 | 24.93 |
| 90 | 24.90 | 37.285 | 25.09 |
| 100 | 24.51 | 37.285 | 25.22 |
| 110 | 23.74 | 37.282 | 25.45 |
| 120 | 23.24 | 37.280 | 25.60 |
| 130 | 23.10 | 37.280 | 25.64 |
| 140 | 22.89 | 37.286 | 25.69 |
| 150 | 22.62 | 37.248 | 25.75 |
| 160 | 22.06 | 37.182 | 25.86 |
| 170 | 21.67 | 37.135 | 25.94 |
| 180 | 21.39 | 37.122 | 26.01 |
| 190 | 21.01 | 37.083 | 26.08 |
| 200 | 20.46 | 37.001 | 26.17 |
| 250 | 18.25 | 36.589 | 26.43 |
| 300 | 16.28 | 36.206 | 26.61 |
| 350 | 14.16 | 35.802 | 26.77 |
| 400 | 13.07 | 35.621 | 26.86 |
| 450 | 12.00 | 35.444 | 26.93 |
| 500 | 11.12 | 35.306 | 26.99 |
| 550 | 10.22 | 35.185 | 27.06 |
| 600 | 9.59 | 35.125 | 27.12 |
| 650 | 8.72 | 35.019 | 27.18 |
| 700 | 8.02 | 34.968 | 27.25 |
| 750 | 7.26 | 34.891 | 27.30 |
| 752 | 7.25 | 34.892 | 27.30 |

RES-STACS28-87 CTD 25 RESEARCHER
Date 09 10 87 Latitude 17.935 N
Time 1432 Z Longitude 61.442 W



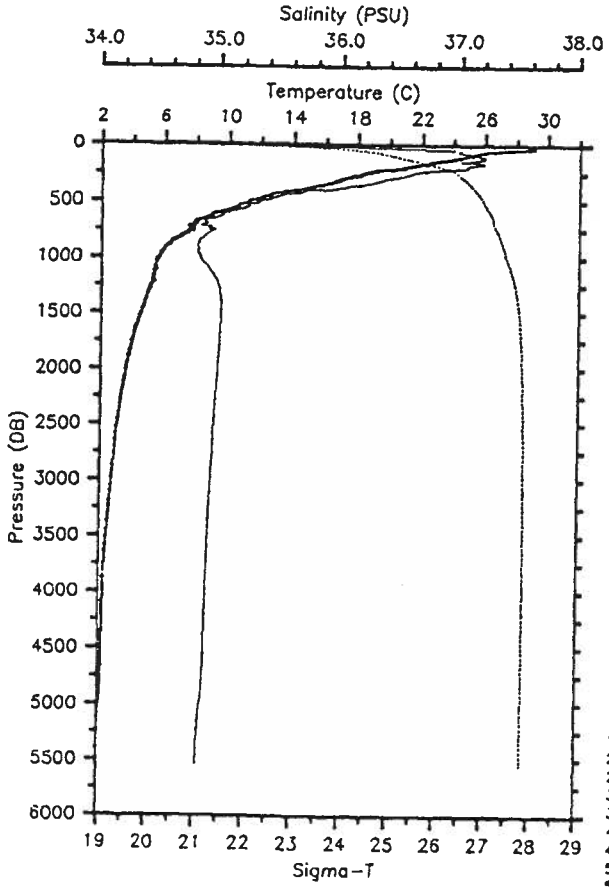

| Prs | Tem | Sal | SigT |
|---|---|---|---|
| 0 | 28.89 | 34.900 | 22.03 |
| 10 | 28.89 | 34.900 | 22.03 |
| 20 | 28.89 | 34.913 | 22.04 |
| 30 | 27.91 | 36.331 | 23.43 |
| 40 | 26.73 | 36.649 | 24.05 |
| 50 | 25.74 | 36.747 | 24.44 |
| 60 | 25.06 | 36.854 | 24.73 |
| 70 | 24.91 | 37.174 | 25.01 |
| 80 | 24.56 | 37.179 | 25.13 |
| 90 | 24.03 | 37.216 | 25.31 |
| 100 | 23.81 | 37.219 | 25.38 |
| 110 | 23.51 | 37.232 | 25.48 |
| 120 | 23.09 | 37.232 | 25.60 |
| 130 | 22.75 | 37.211 | 25.68 |
| 140 | 22.53 | 37.245 | 25.77 |
| 150 | 22.26 | 37.229 | 25.84 |
| 160 | 21.85 | 37.199 | 25.93 |
| 170 | 21.51 | 37.132 | 25.98 |
| 180 | 20.78 | 36.994 | 26.07 |
| 190 | 19.91 | 36.835 | 26.19 |
| 200 | 19.27 | 36.736 | 26.28 |
| 250 | 18.10 | 36.591 | 26.47 |
| 300 | 16.65 | 36.314 | 26.61 |
| 350 | 15.55 | 36.132 | 26.72 |
| 400 | 13.74 | 35.806 | 26.87 |
| 450 | 12.35 | 35.539 | 26.94 |
| 500 | 11.30 | 35.350 | 26.99 |
| 550 | 10.16 | 35.163 | 27.05 |
| 600 | 8.86 | 34.952 | 27.10 |
| 650 | 8.10 | 34.860 | 27.15 |
| 700 | 7.30 | 34.764 | 27.19 |
| 750 | 7.53 | 34.881 | 27.25 |
| 800 | 6.70 | 34.787 | 27.28 |
| 850 | 6.02 | 34.749 | 27.35 |
| 900 | 5.89 | 34.783 | 27.40 |
| 950 | 5.98 | 34.850 | 27.44 |
| 1000 | 5.81 | 34.874 | 27.48 |
| 1500 | 4.38 | 35.011 | 27.75 |
| 2000 | 3.61 | 34.982 | 27.81 |
| 2500 | 3.10 | 34.954 | 27.84 |
| 3000 | 2.79 | 34.937 | 27.85 |
| 3500 | 2.48 | 34.916 | 27.86 |
| 4000 | 2.36 | 34.905 | 27.87 |
| 4180 | 2.32 | 34.900 | 27.87 |

RES-STACS28-87 CTD 26 RESEARCHER
Date 09 10 87 Latitude 18.108 N
Time 1815 Z Longitude 61.265 W



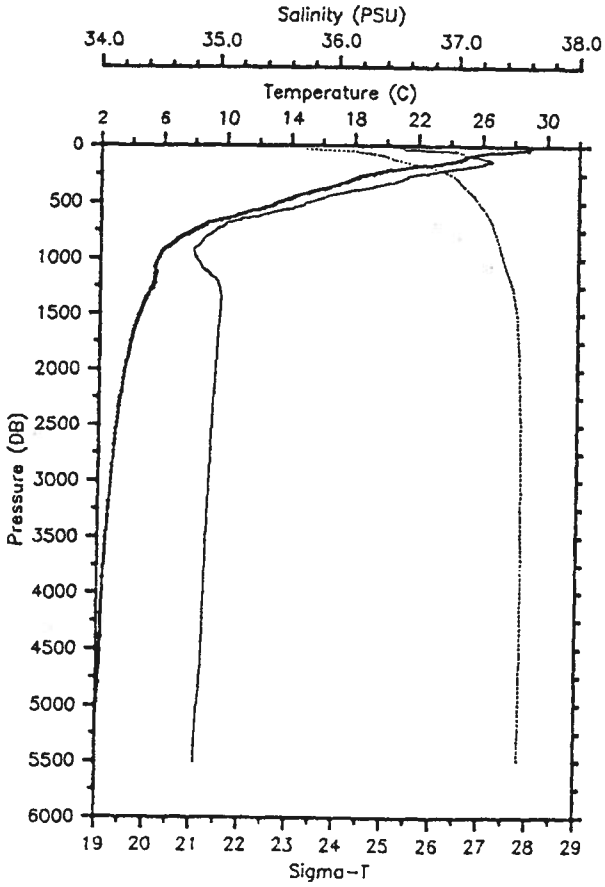

| Prs | Tem | Sal | SigT |
|---|---|---|---|
| 0 | 29.02 | 34.538 | 21.71 |
| 10 | 29.03 | 34.816 | 21.92 |
| 20 | 28.92 | 35.384 | 22.38 |
| 30 | 28.48 | 36.084 | 23.05 |
| 40 | 27.35 | 36.565 | 23.79 |
| 50 | 26.17 | 36.734 | 24.29 |
| 60 | 25.58 | 36.922 | 24.62 |
| 70 | 25.07 | 36.903 | 24.76 |
| 80 | 24.71 | 36.992 | 24.94 |
| 90 | 24.04 | 37.028 | 25.17 |
| 100 | 23.92 | 37.086 | 25.25 |
| 110 | 23.86 | 37.287 | 25.42 |
| 120 | 23.57 | 37.266 | 25.49 |
| 130 | 23.07 | 37.248 | 25.62 |
| 140 | 22.75 | 37.235 | 25.70 |
| 150 | 22.39 | 37.173 | 25.76 |
| 160 | 22.22 | 37.198 | 25.83 |
| 170 | 21.65 | 37.126 | 25.93 |
| 180 | 20.99 | 37.028 | 26.04 |
| 190 | 20.64 | 36.984 | 26.11 |
| 200 | 20.00 | 36.868 | 26.19 |
| 250 | 18.01 | 36.516 | 26.43 |
| 300 | 17.15 | 36.389 | 26.55 |
| 350 | 16.14 | 36.225 | 26.66 |
| 400 | 14.77 | 35.996 | 26.79 |
| 450 | 12.77 | 35.617 | 26.92 |
| 500 | 11.69 | 35.430 | 26.98 |
| 550 | 10.07 | 35.132 | 27.04 |
| 600 | 9.05 | 34.977 | 27.09 |
| 650 | 8.85 | 35.008 | 27.15 |
| 700 | 8.39 | 34.984 | 27.20 |
| 750 | 7.28 | 34.813 | 27.23 |
| 800 | 6.73 | 34.777 | 27.28 |
| 850 | 6.04 | 34.707 | 27.32 |
| 900 | 5.95 | 34.738 | 27.35 |
| 950 | 5.92 | 34.813 | 27.42 |
| 1000 | 5.62 | 34.801 | 27.44 |
| 1500 | 4.51 | 35.018 | 27.75 |
| 2000 | 3.67 | 34.987 | 27.81 |
| 2500 | 3.14 | 34.958 | 27.84 |
| 3000 | 2.79 | 34.935 | 27.85 |
| 3500 | 2.47 | 34.912 | 27.86 |
| 4000 | 2.35 | 34.904 | 27.87 |
| 4500 | 2.28 | 34.890 | 27.86 |
| 5000 | 2.18 | 34.871 | 27.85 |
| 5462 | 2.04 | 34.845 | 27.84 |

RES-STACS28-87 CTD 27 RESEARCHER
Date 09 10 87 Latitude 18.338 N
Time 2240 Z Longitude 61.013 W



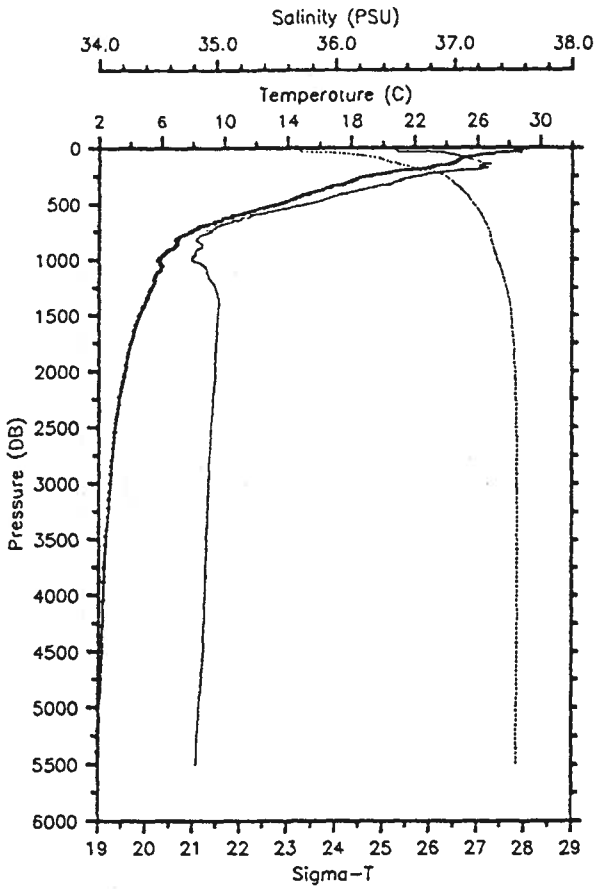

| Prs | Tem | Sal | SigT |
|---|---|---|---|
| 0 | 28.92 | 34.308 | 21.57 |
| 10 | 28.92 | 34.308 | 21.57 |
| 20 | 28.94 | 34.725 | 21.88 |
| 30 | 28.94 | 36.079 | 22.90 |
| 40 | 28.55 | 36.587 | 23.41 |
| 50 | 27.26 | 36.933 | 24.09 |
| 60 | 26.30 | 36.972 | 24.43 |
| 70 | 25.76 | 36.970 | 24.60 |
| 80 | 25.50 | 37.092 | 24.77 |
| 90 | 25.12 | 37.084 | 24.88 |
| 100 | 24.80 | 37.143 | 25.02 |
| 110 | 24.40 | 37.167 | 25.17 |
| 120 | 24.15 | 37.168 | 25.24 |
| 130 | 23.85 | 37.170 | 25.33 |
| 140 | 23.22 | 37.075 | 25.45 |
| 150 | 22.61 | 36.987 | 25.56 |
| 160 | 22.56 | 37.149 | 25.69 |
| 170 | 22.28 | 37.179 | 25.80 |
| 180 | 21.70 | 37.115 | 25.91 |
| 190 | 21.33 | 37.041 | 25.96 |
| 200 | 20.94 | 37.043 | 26.07 |
| 250 | 18.42 | 36.604 | 26.40 |
| 300 | 17.16 | 36.403 | 26.55 |
| 350 | 15.99 | 36.204 | 26.68 |
| 400 | 14.73 | 35.958 | 26.77 |
| 450 | 12.63 | 35.540 | 26.89 |
| 500 | 11.43 | 35.351 | 26.97 |
| 550 | 10.63 | 35.239 | 27.03 |
| 600 | 9.48 | 35.023 | 27.10 |
| 650 | 8.69 | 34.983 | 27.16 |
| 700 | 7.89 | 34.874 | 27.19 |
| 750 | 7.71 | 34.910 | 27.25 |
| 800 | 7.29 | 34.900 | 27.30 |
| 850 | 6.56 | 34.824 | 27.34 |
| 900 | 6.14 | 34.806 | 27.38 |
| 950 | 5.87 | 34.812 | 27.42 |
| 1000 | 5.68 | 34.834 | 27.46 |
| 1500 | 4.57 | 35.008 | 27.73 |
| 2000 | 3.68 | 34.986 | 27.81 |
| 2500 | 3.12 | 34.955 | 27.84 |
| 3000 | 2.79 | 34.933 | 27.85 |
| 3500 | 2.51 | 34.915 | 27.86 |
| 4000 | 2.34 | 34.902 | 27.87 |
| 4500 | 2.28 | 34.892 | 27.86 |
| 5000 | 2.14 | 34.867 | 27.85 |
| 5500 | 1.95 | 34.835 | 27.84 |
| 5548 | 1.93 | 34.832 | 27.84 |

RES-STACS28-87 CTD 28 RESEARCHER
Date 09 11 87 Latitude 18.587 N
Time 0301 Z Longitude 60.772 W



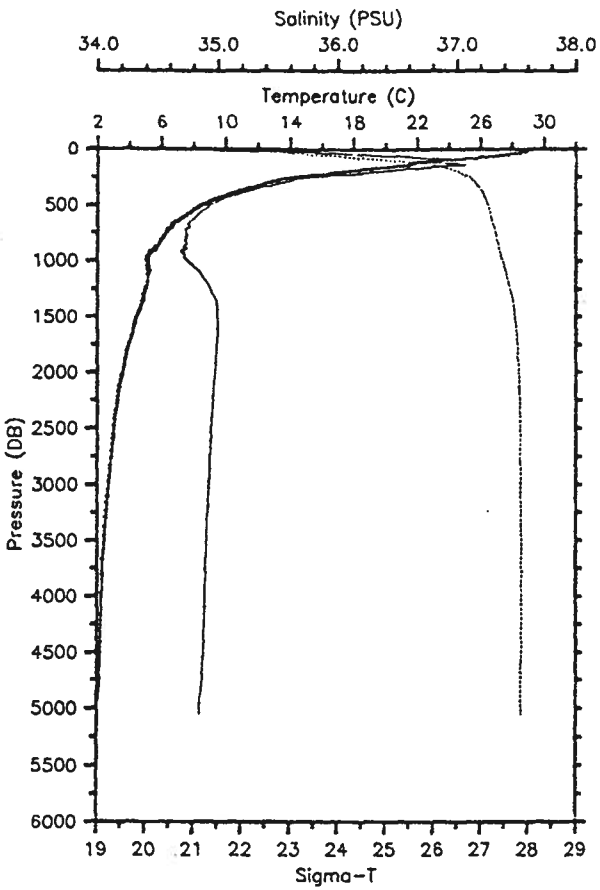

| Prs | Tem | Sal | SigT |
|---|---|---|---|
| 0 | 28.92 | 36.026 | 22.86 |
| 10 | 28.93 | 36.031 | 22.86 |
| 20 | 28.84 | 36.510 | 23.25 |
| 30 | 28.81 | 36.539 | 23.29 |
| 40 | 28.43 | 36.655 | 23.50 |
| 50 | 27.64 | 36.879 | 23.93 |
| 60 | 26.46 | 37.011 | 24.41 |
| 70 | 25.92 | 37.043 | 24.60 |
| 80 | 25.51 | 37.061 | 24.74 |
| 90 | 25.14 | 37.081 | 24.87 |
| 100 | 24.96 | 37.142 | 24.97 |
| 110 | 24.78 | 37.195 | 25.07 |
| 120 | 24.66 | 37.235 | 25.14 |
| 130 | 24.41 | 37.247 | 25.22 |
| 140 | 24.19 | 37.280 | 25.31 |
| 150 | 23.69 | 37.217 | 25.41 |
| 160 | 23.36 | 37.226 | 25.52 |
| 170 | 22.84 | 37.169 | 25.63 |
| 180 | 22.09 | 37.117 | 25.80 |
| 190 | 21.51 | 37.048 | 25.91 |
| 200 | 21.05 | 37.003 | 26.01 |
| 250 | 19.22 | 36.746 | 26.30 |
| 300 | 17.91 | 36.541 | 26.48 |
| 350 | 16.92 | 36.375 | 26.59 |
| 400 | 15.58 | 36.138 | 26.72 |
| 450 | 14.28 | 35.917 | 26.84 |
| 500 | 13.33 | 35.774 | 26.93 |
| 550 | 12.31 | 35.626 | 27.02 |
| 600 | 11.11 | 35.430 | 27.09 |
| 650 | 9.70 | 35.188 | 27.15 |
| 700 | 8.72 | 35.059 | 27.21 |
| 750 | 7.95 | 34.981 | 27.27 |
| 800 | 7.35 | 34.921 | 27.31 |
| 850 | 6.78 | 34.865 | 27.34 |
| 900 | 6.28 | 34.819 | 27.37 |
| 950 | 5.89 | 34.799 | 27.41 |
| 1000 | 5.71 | 34.817 | 27.44 |
| 1500 | 4.53 | 35.015 | 27.74 |
| 2000 | 3.65 | 34.983 | 27.81 |
| 2500 | 3.13 | 34.956 | 27.84 |
| 3000 | 2.81 | 34.936 | 27.85 |
| 3500 | 2.53 | 34.916 | 27.86 |
| 4000 | 2.35 | 34.902 | 27.86 |
| 4500 | 2.26 | 34.890 | 27.86 |
| 5000 | 2.07 | 34.858 | 27.85 |
| 5500 | 1.95 | 34.835 | 27.84 |
| 5506 | 1.95 | 34.836 | 27.84 |

RES-STACS28-87 CTD 29 RESEARCHER
Date 09 11 87 Latitude 18.813 N
Time 0734 Z Longitude 60.520 W



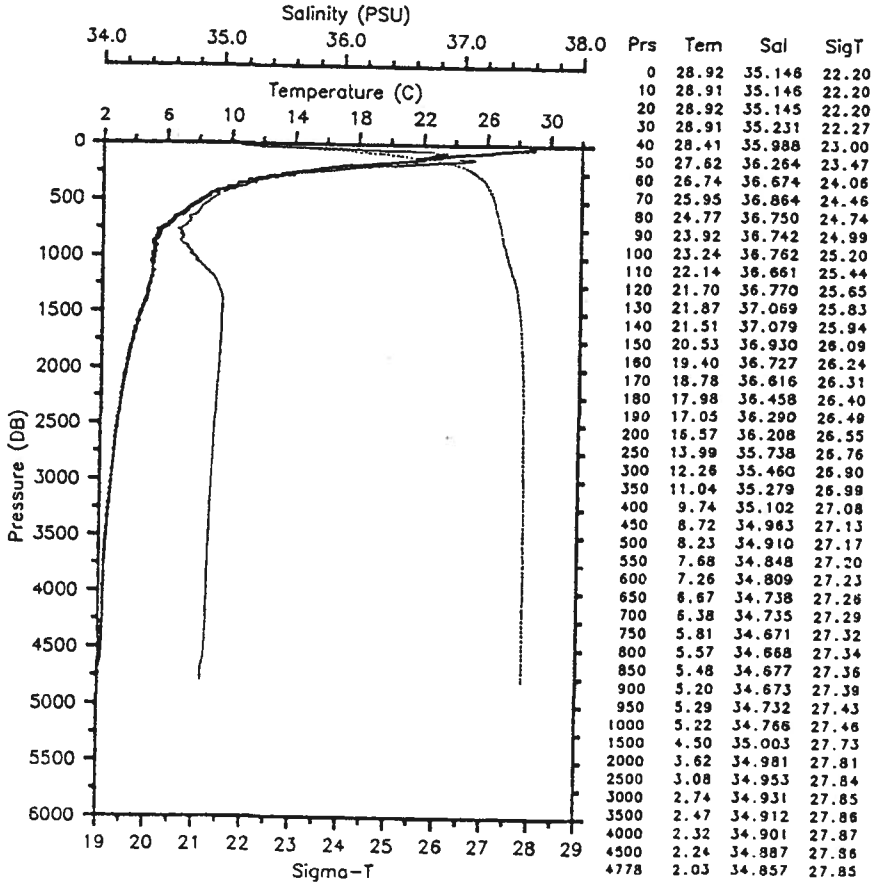

| Prs | Tem | Sal | SigT |
|---|---|---|---|
| 0 | 28.83 | 36.508 | 23.26 |
| 10 | 28.83 | 36.509 | 23.26 |
| 20 | 28.84 | 36.511 | 23.26 |
| 30 | 28.83 | 36.517 | 23.26 |
| 40 | 28.45 | 36.761 | 23.57 |
| 50 | 27.22 | 36.936 | 24.11 |
| 60 | 26.48 | 36.981 | 24.38 |
| 70 | 26.00 | 37.034 | 24.57 |
| 80 | 25.60 | 37.075 | 24.73 |
| 90 | 25.14 | 37.115 | 24.90 |
| 100 | 24.90 | 37.136 | 24.99 |
| 110 | 24.75 | 37.158 | 25.05 |
| 120 | 24.65 | 37.196 | 25.11 |
| 130 | 24.47 | 37.223 | 25.18 |
| 140 | 24.32 | 37.306 | 25.29 |
| 150 | 24.01 | 37.285 | 25.37 |
| 160 | 23.44 | 37.218 | 25.49 |
| 170 | 23.18 | 37.228 | 25.57 |
| 180 | 22.83 | 37.287 | 25.72 |
| 190 | 22.37 | 37.238 | 25.82 |
| 200 | 21.43 | 37.055 | 25.94 |
| 250 | 19.27 | 36.727 | 26.27 |
| 300 | 17.95 | 36.549 | 26.47 |
| 350 | 16.73 | 36.342 | 26.61 |
| 400 | 15.48 | 36.120 | 26.73 |
| 450 | 14.50 | 35.957 | 26.82 |
| 500 | 13.39 | 35.777 | 26.92 |
| 550 | 12.01 | 35.548 | 27.01 |
| 600 | 10.47 | 35.289 | 27.10 |
| 650 | 9.60 | 35.158 | 27.14 |
| 700 | 8.57 | 35.027 | 27.21 |
| 750 | 7.92 | 34.960 | 27.25 |
| 800 | 7.12 | 34.848 | 27.28 |
| 850 | 6.97 | 34.859 | 27.31 |
| 900 | 6.73 | 34.859 | 27.35 |
| 950 | 6.16 | 34.821 | 27.39 |
| 1000 | 5.83 | 34.792 | 27.41 |
| 1500 | 4.59 | 35.015 | 27.73 |
| 2000 | 3.68 | 34.990 | 27.81 |
| 2500 | 3.08 | 34.954 | 27.84 |
| 3000 | 2.76 | 34.931 | 27.85 |
| 3500 | 2.49 | 34.912 | 27.86 |
| 4000 | 2.33 | 34.901 | 27.87 |
| 4500 | 2.26 | 34.891 | 27.86 |
| 5000 | 2.07 | 34.859 | 27.85 |
| 5500 | 1.95 | 34.836 | 27.84 |
| 5504 | 1.95 | 34.836 | 27.84 |

RES-STACS28-87 CTD 30 RESEARCHER
Date 09 13 87 Latitude 13.000 N
Time 0013 Z Longitude 55.007 W



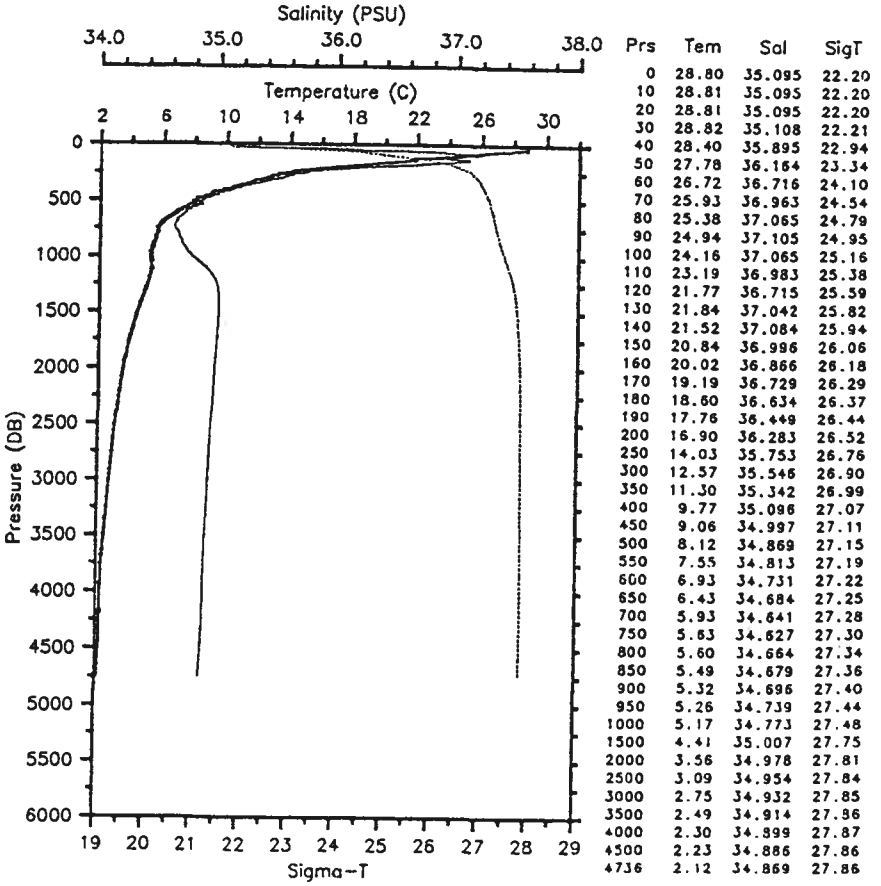

| Prs | Tem | Sal | SigT |
|---|---|---|---|
| 0 | 28.83 | 34.880 | 22.03 |
| 10 | 28.88 | 34.918 | 22.05 |
| 20 | 28.94 | 34.997 | 22.08 |
| 30 | 28.57 | 35.798 | 22.81 |
| 40 | 28.50 | 36.038 | 23.01 |
| 50 | 27.81 | 36.236 | 23.39 |
| 60 | 27.18 | 36.430 | 23.74 |
| 70 | 26.26 | 36.608 | 24.17 |
| 80 | 25.67 | 36.766 | 24.47 |
| 90 | 24.73 | 36.917 | 24.88 |
| 100 | 23.43 | 36.749 | 25.14 |
| 110 | 22.49 | 36.767 | 25.42 |
| 120 | 21.87 | 36.836 | 25.65 |
| 130 | 21.80 | 37.026 | 25.82 |
| 140 | 21.50 | 37.065 | 25.93 |
| 150 | 20.63 | 36.934 | 26.07 |
| 160 | 19.79 | 36.802 | 26.19 |
| 170 | 19.10 | 36.689 | 26.29 |
| 180 | 18.36 | 36.549 | 26.37 |
| 190 | 17.74 | 36.434 | 26.44 |
| 200 | 17.22 | 36.339 | 26.49 |
| 250 | 14.09 | 35.768 | 26.76 |
| 300 | 12.53 | 35.532 | 26.90 |
| 350 | 11.25 | 35.337 | 26.99 |
| 400 | 10.22 | 35.185 | 27.06 |
| 450 | 9.20 | 35.031 | 27.11 |
| 500 | 8.43 | 34.933 | 27.16 |
| 550 | 7.95 | 34.883 | 27.19 |
| 600 | 7.48 | 34.832 | 27.22 |
| 650 | 6.90 | 34.772 | 27.25 |
| 700 | 6.64 | 34.762 | 27.28 |
| 750 | 6.29 | 34.735 | 27.31 |
| 800 | 6.06 | 34.733 | 27.33 |
| 850 | 5.87 | 34.743 | 27.37 |
| 900 | 5.54 | 34.728 | 27.40 |
| 950 | 5.24 | 34.727 | 27.43 |
| 1000 | 5.14 | 34.751 | 27.46 |
| 1500 | 4.47 | 34.995 | 27.73 |
| 2000 | 3.59 | 34.979 | 27.81 |
| 2500 | 3.05 | 34.950 | 27.84 |
| 3000 | 2.73 | 34.929 | 27.85 |
| 3500 | 2.46 | 34.912 | 27.86 |
| 4000 | 2.31 | 34.899 | 27.87 |
| 4500 | 2.22 | 34.884 | 27.86 |
| 5000 | 2.03 | 34.852 | 27.85 |
| 5046 | 2.03 | 34.852 | 27.85 |

RES-STACS28-87 CTD 31 RESEARCHER
Date 09 13 87 Latitude 13.000 N
Time 0448 Z Longitude 55.500 W



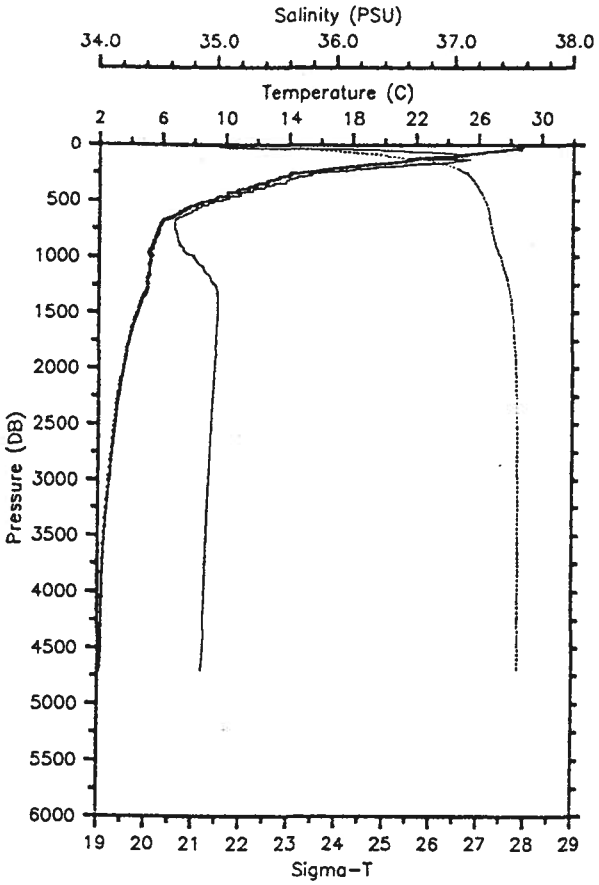

| Prs | Tem | Sal | SigT |
|---|---|---|---|
| 0 | 28.92 | 35.146 | 22.20 |
| 10 | 28.91 | 35.146 | 22.20 |
| 20 | 28.92 | 35.145 | 22.20 |
| 30 | 28.91 | 35.231 | 22.27 |
| 40 | 28.41 | 35.988 | 23.00 |
| 50 | 27.62 | 36.264 | 23.47 |
| 60 | 26.74 | 36.674 | 24.06 |
| 70 | 25.95 | 36.864 | 24.46 |
| 80 | 24.77 | 36.750 | 24.74 |
| 90 | 23.92 | 36.742 | 24.99 |
| 100 | 23.24 | 36.762 | 25.20 |
| 110 | 22.14 | 36.661 | 25.44 |
| 120 | 21.70 | 36.770 | 25.65 |
| 130 | 21.87 | 37.069 | 25.83 |
| 140 | 21.51 | 37.079 | 25.94 |
| 150 | 20.53 | 36.930 | 26.09 |
| 160 | 19.40 | 36.727 | 26.24 |
| 170 | 18.78 | 36.616 | 26.31 |
| 180 | 17.98 | 36.458 | 26.40 |
| 190 | 17.05 | 36.290 | 26.49 |
| 200 | 16.57 | 36.208 | 26.55 |
| 250 | 13.99 | 35.738 | 26.76 |
| 300 | 12.26 | 35.460 | 26.90 |
| 350 | 11.04 | 35.279 | 26.99 |
| 400 | 9.74 | 35.102 | 27.08 |
| 450 | 8.72 | 34.983 | 27.13 |
| 500 | 8.23 | 34.910 | 27.17 |
| 550 | 7.68 | 34.848 | 27.20 |
| 600 | 7.26 | 34.809 | 27.23 |
| 650 | 6.87 | 34.738 | 27.26 |
| 700 | 6.38 | 34.735 | 27.29 |
| 750 | 5.81 | 34.671 | 27.32 |
| 800 | 5.57 | 34.668 | 27.34 |
| 850 | 5.48 | 34.677 | 27.36 |
| 900 | 5.20 | 34.673 | 27.39 |
| 950 | 5.29 | 34.732 | 27.43 |
| 1000 | 5.22 | 34.766 | 27.46 |
| 1500 | 4.50 | 35.003 | 27.73 |
| 2000 | 3.62 | 34.981 | 27.81 |
| 2500 | 3.08 | 34.953 | 27.84 |
| 3000 | 2.74 | 34.931 | 27.85 |
| 3500 | 2.47 | 34.912 | 27.86 |
| 4000 | 2.32 | 34.901 | 27.87 |
| 4500 | 2.24 | 34.887 | 27.86 |
| 4778 | 2.03 | 34.857 | 27.85 |

RES-STACS28-87 CTD 32 RESEARCHER
Date 09 13 87 Latitude 12.987 N
Time 0936 Z Longitude 55.977 W



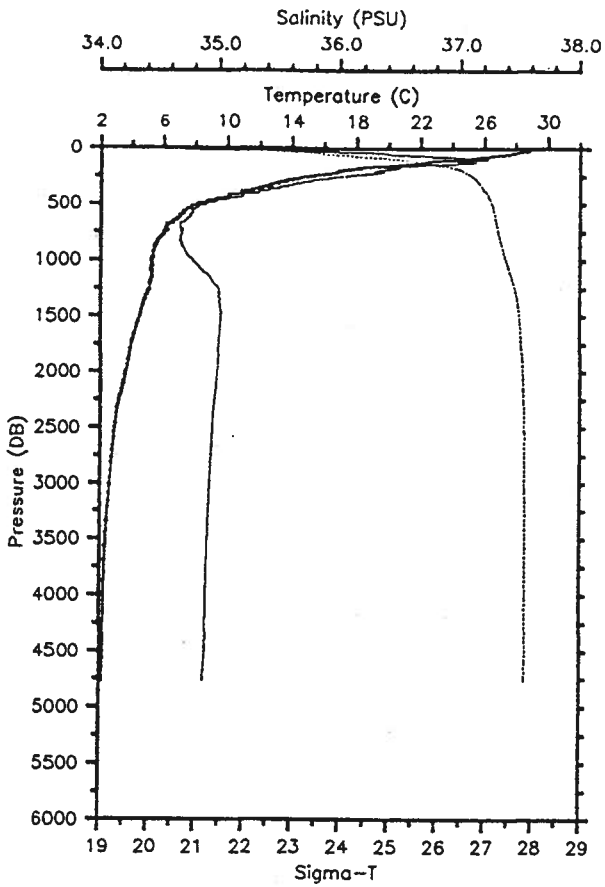

| Prs | Tem | Sal | SigT |
|---|---|---|---|
| 0 | 28.80 | 35.095 | 22.20 |
| 10 | 28.81 | 35.095 | 22.20 |
| 20 | 28.81 | 35.095 | 22.20 |
| 30 | 28.82 | 35.108 | 22.21 |
| 40 | 28.40 | 35.895 | 22.94 |
| 50 | 27.78 | 36.164 | 23.34 |
| 60 | 26.72 | 36.716 | 24.10 |
| 70 | 25.93 | 36.963 | 24.54 |
| 80 | 25.38 | 37.065 | 24.79 |
| 90 | 24.94 | 37.105 | 24.95 |
| 100 | 24.16 | 37.065 | 25.16 |
| 110 | 23.19 | 36.983 | 25.38 |
| 120 | 21.77 | 36.715 | 25.59 |
| 130 | 21.84 | 37.042 | 25.82 |
| 140 | 21.52 | 37.084 | 25.94 |
| 150 | 20.84 | 36.996 | 26.06 |
| 160 | 20.02 | 36.866 | 26.18 |
| 170 | 19.19 | 36.729 | 26.29 |
| 180 | 18.60 | 36.634 | 26.37 |
| 190 | 17.76 | 36.448 | 26.44 |
| 200 | 16.90 | 36.283 | 26.52 |
| 250 | 14.03 | 35.753 | 26.76 |
| 300 | 12.57 | 35.546 | 26.90 |
| 350 | 11.30 | 35.342 | 26.99 |
| 400 | 9.77 | 35.096 | 27.07 |
| 450 | 9.06 | 34.997 | 27.11 |
| 500 | 8.12 | 34.869 | 27.15 |
| 550 | 7.55 | 34.813 | 27.19 |
| 600 | 6.93 | 34.731 | 27.22 |
| 650 | 6.43 | 34.684 | 27.25 |
| 700 | 5.93 | 34.641 | 27.28 |
| 750 | 5.63 | 34.627 | 27.30 |
| 800 | 5.60 | 34.664 | 27.34 |
| 850 | 5.49 | 34.679 | 27.36 |
| 900 | 5.32 | 34.696 | 27.40 |
| 950 | 5.26 | 34.739 | 27.44 |
| 1000 | 5.17 | 34.773 | 27.48 |
| 1500 | 4.41 | 35.007 | 27.75 |
| 2000 | 3.56 | 34.978 | 27.81 |
| 2500 | 3.09 | 34.954 | 27.84 |
| 3000 | 2.75 | 34.932 | 27.85 |
| 3500 | 2.49 | 34.914 | 27.86 |
| 4000 | 2.30 | 34.899 | 27.87 |
| 4500 | 2.23 | 34.886 | 27.86 |
| 4736 | 2.12 | 34.869 | 27.86 |

RES-STACS28-87 CTD 33 RESEARCHER
Date 09 13 87 Latitude 13.013 N
Time 1415 Z Longitude 56.517 W



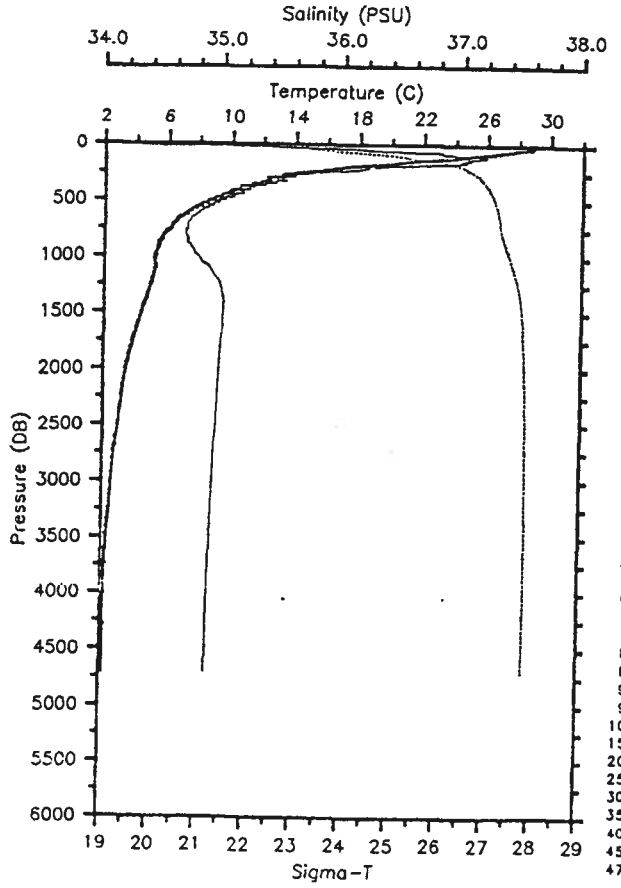

| Prs | Tem | Sal | SigT |
|---|---|---|---|
| 0 | 28.70 | 35.012 | 22.18 |
| 10 | 28.66 | 35.010 | 22.18 |
| 20 | 28.67 | 35.012 | 22.19 |
| 30 | 28.67 | 35.040 | 22.21 |
| 40 | 28.15 | 36.094 | 23.17 |
| 50 | 27.60 | 36.391 | 23.58 |
| 60 | 26.70 | 36.590 | 24.01 |
| 70 | 26.32 | 36.883 | 24.36 |
| 80 | 25.72 | 37.080 | 24.69 |
| 90 | 25.12 | 37.118 | 24.91 |
| 100 | 24.51 | 37.054 | 25.05 |
| 110 | 22.94 | 36.733 | 25.27 |
| 120 | 22.05 | 36.674 | 25.48 |
| 130 | 21.65 | 36.805 | 25.69 |
| 140 | 21.72 | 37.100 | 25.89 |
| 150 | 21.14 | 37.043 | 26.01 |
| 160 | 20.49 | 36.948 | 26.12 |
| 170 | 19.84 | 36.842 | 26.21 |
| 180 | 18.73 | 36.621 | 26.33 |
| 190 | 18.27 | 36.553 | 26.40 |
| 200 | 17.58 | 36.407 | 26.46 |
| 250 | 14.59 | 35.858 | 26.72 |
| 300 | 13.31 | 35.657 | 26.84 |
| 350 | 11.92 | 35.458 | 26.96 |
| 400 | 10.80 | 35.295 | 27.04 |
| 450 | 10.11 | 35.196 | 27.09 |
| 500 | 8.98 | 35.032 | 27.14 |
| 550 | 7.97 | 34.886 | 27.19 |
| 600 | 7.15 | 34.785 | 27.23 |
| 650 | 6.57 | 34.704 | 27.25 |
| 700 | 5.99 | 34.637 | 27.27 |
| 750 | 5.80 | 34.634 | 27.29 |
| 800 | 5.70 | 34.654 | 27.32 |
| 850 | 5.55 | 34.666 | 27.35 |
| 900 | 5.35 | 34.676 | 27.38 |
| 950 | 5.20 | 34.719 | 27.43 |
| 1000 | 5.30 | 34.802 | 27.48 |
| 1500 | 4.47 | 35.010 | 27.74 |
| 2000 | 3.58 | 34.979 | 27.81 |
| 2500 | 3.07 | 34.953 | 27.84 |
| 3000 | 2.73 | 34.931 | 27.85 |
| 3500 | 2.42 | 34.911 | 27.87 |
| 4000 | 2.30 | 34.899 | 27.87 |
| 4500 | 2.22 | 34.886 | 27.86 |
| 4702 | 2.14 | 34.872 | 27.86 |

RES-STACS28-87 CTD 34 RESEARCHER
Date 09 13 87 Latitude 13.000 N
Time 1851 Z Longitude 56.995 W



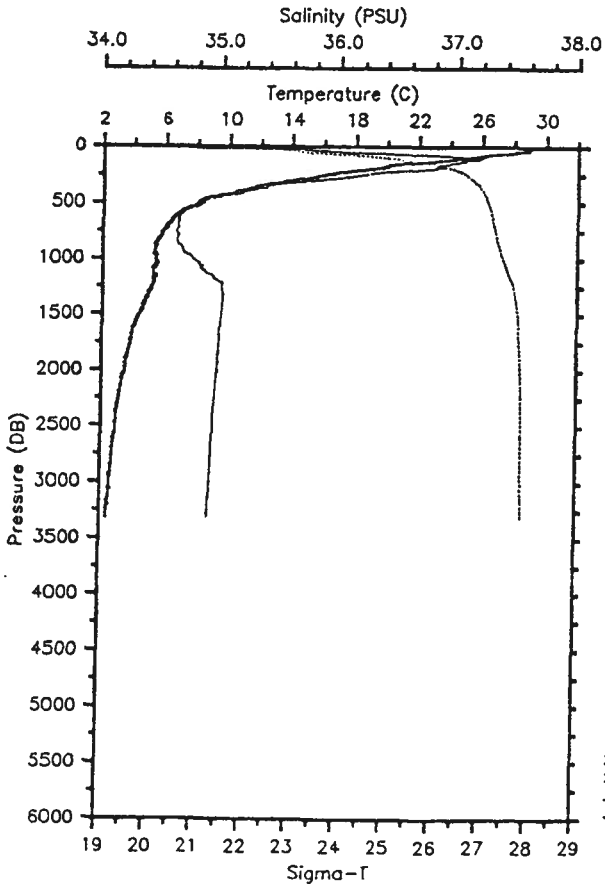

| Prs | Tem | Sal | SigT |
|---|---|---|---|
| 0 | 28.73 | 34.698 | 21.93 |
| 10 | 28.72 | 34.697 | 21.93 |
| 20 | 28.79 | 34.791 | 21.98 |
| 30 | 28.58 | 35.393 | 22.50 |
| 40 | 28.07 | 36.238 | 23.31 |
| 50 | 27.68 | 36.402 | 23.55 |
| 60 | 27.15 | 36.531 | 23.83 |
| 70 | 26.42 | 36.797 | 24.26 |
| 80 | 25.54 | 36.891 | 24.61 |
| 90 | 25.07 | 37.163 | 24.96 |
| 100 | 24.33 | 37.205 | 25.22 |
| 110 | 23.30 | 37.077 | 25.42 |
| 120 | 22.34 | 36.969 | 25.62 |
| 130 | 22.27 | 37.129 | 25.76 |
| 140 | 21.55 | 36.985 | 25.86 |
| 150 | 20.22 | 36.709 | 26.01 |
| 160 | 19.15 | 36.517 | 26.14 |
| 170 | 18.22 | 36.404 | 26.29 |
| 180 | 18.12 | 36.480 | 26.38 |
| 190 | 17.49 | 36.398 | 26.47 |
| 200 | 17.02 | 36.315 | 26.52 |
| 250 | 15.22 | 36.050 | 26.73 |
| 300 | 13.59 | 35.752 | 26.86 |
| 350 | 12.14 | 35.509 | 26.96 |
| 400 | 10.91 | 35.324 | 27.05 |
| 450 | 9.38 | 35.076 | 27.12 |
| 500 | 8.15 | 34.880 | 27.16 |
| 550 | 7.43 | 34.789 | 27.19 |
| 600 | 7.00 | 34.749 | 27.22 |
| 650 | 6.74 | 34.725 | 27.24 |
| 700 | 6.17 | 34.668 | 27.27 |
| 750 | 6.02 | 34.672 | 27.29 |
| 800 | 5.76 | 34.673 | 27.32 |
| 850 | 5.57 | 34.685 | 27.36 |
| 900 | 5.41 | 34.705 | 27.39 |
| 950 | 5.34 | 34.730 | 27.42 |
| 1000 | 5.29 | 34.777 | 27.46 |
| 1500 | 4.48 | 35.011 | 27.74 |
| 2000 | 3.63 | 34.982 | 27.81 |
| 2500 | 2.92 | 34.944 | 27.85 |
| 3000 | 2.60 | 34.922 | 27.86 |
| 3500 | 2.36 | 34.906 | 27.87 |
| 4000 | 2.25 | 34.895 | 27.87 |
| 4500 | 2.21 | 34.885 | 27.86 |
| 4766 | 2.14 | 34.872 | 27.86 |

RES-STACS28-87 CTD 35 RESEARCHER
Date 09 13 87 Latitude 13.000 N
Time 2327 Z Longitude 57.500 W



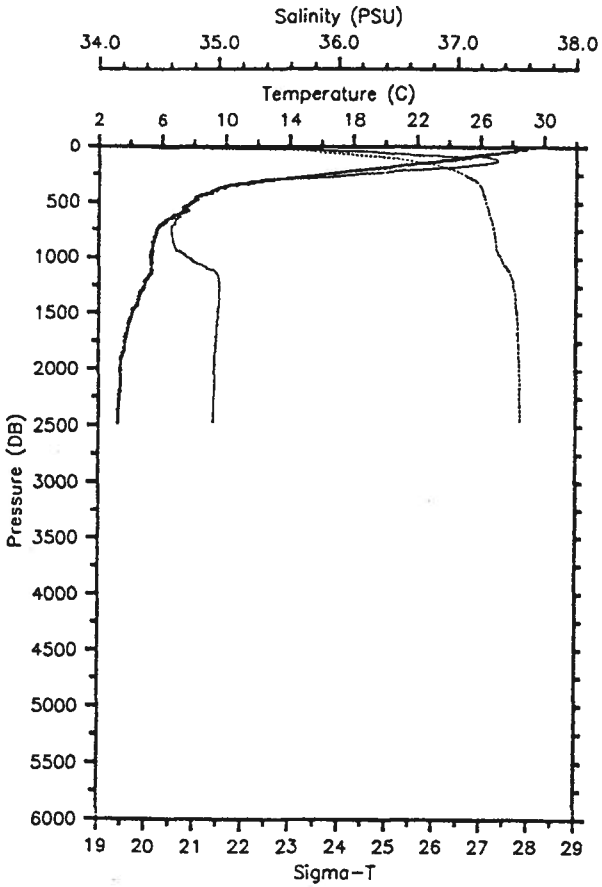

| Prs | Tem | Sal | SigT |
|---|---|---|---|
| 0 | 28.72 | 34.295 | 21.63 |
| 10 | 28.73 | 34.296 | 21.63 |
| 20 | 28.76 | 34.331 | 21.64 |
| 30 | 28.72 | 35.390 | 22.45 |
| 40 | 28.13 | 36.075 | 23.16 |
| 50 | 27.71 | 36.179 | 23.38 |
| 60 | 27.10 | 36.404 | 23.75 |
| 70 | 26.64 | 36.737 | 24.14 |
| 80 | 25.92 | 36.796 | 24.42 |
| 90 | 25.19 | 36.927 | 24.74 |
| 100 | 24.64 | 37.117 | 25.05 |
| 110 | 24.08 | 37.185 | 25.27 |
| 120 | 23.50 | 37.113 | 25.38 |
| 130 | 22.75 | 37.030 | 25.55 |
| 140 | 22.01 | 37.024 | 25.76 |
| 150 | 20.90 | 36.998 | 26.04 |
| 160 | 20.44 | 36.969 | 26.15 |
| 170 | 19.76 | 36.836 | 26.23 |
| 180 | 18.73 | 36.643 | 26.35 |
| 190 | 17.81 | 36.454 | 26.44 |
| 200 | 16.89 | 36.273 | 26.52 |
| 250 | 14.50 | 35.810 | 26.71 |
| 300 | 12.20 | 35.442 | 26.89 |
| 350 | 11.85 | 35.429 | 26.95 |
| 400 | 10.51 | 35.217 | 27.03 |
| 450 | 9.37 | 35.076 | 27.12 |
| 500 | 8.92 | 35.015 | 27.14 |
| 550 | 8.11 | 34.910 | 27.19 |
| 600 | 7.35 | 34.815 | 27.22 |
| 650 | 6.74 | 34.740 | 27.25 |
| 700 | 6.36 | 34.706 | 27.27 |
| 750 | 6.16 | 34.703 | 27.30 |
| 800 | 5.82 | 34.685 | 27.33 |
| 850 | 5.61 | 34.702 | 27.37 |
| 900 | 5.44 | 34.722 | 27.40 |
| 950 | 5.32 | 34.753 | 27.44 |
| 1000 | 5.23 | 34.790 | 27.48 |
| 1500 | 4.37 | 35.003 | 27.75 |
| 2000 | 3.45 | 34.973 | 27.82 |
| 2500 | 2.97 | 34.948 | 27.85 |
| 3000 | 2.61 | 34.925 | 27.86 |
| 3500 | 2.35 | 34.908 | 27.87 |
| 4000 | 2.25 | 34.896 | 27.87 |
| 4500 | 2.22 | 34.886 | 27.86 |
| 4702 | 2.23 | 34.884 | 27.86 |

RES-STACS28-87 CTD 36 RESEARCHER
Date 09 14 87 Latitude 13.000 N
Time 0340 Z Longitude 58.000 W



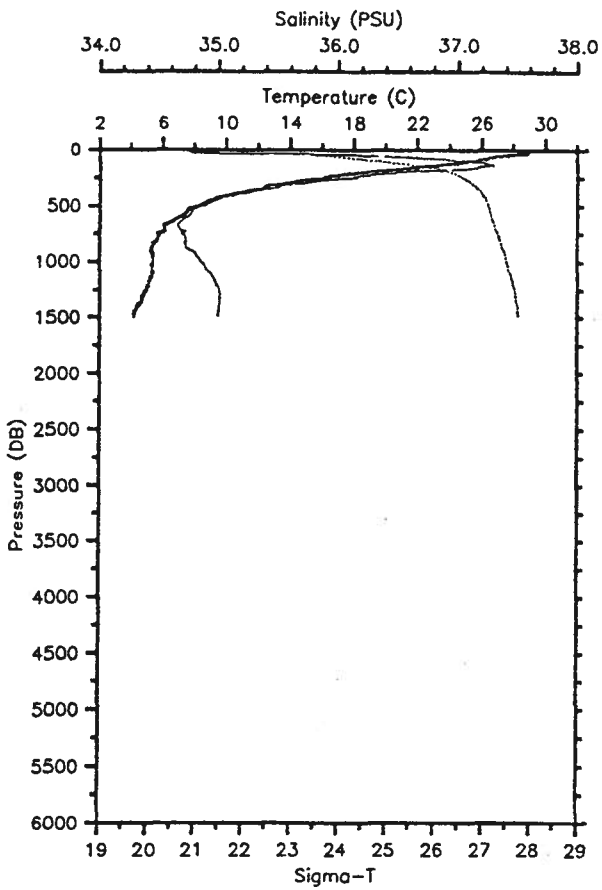

| Prs | Tem | Sal | SigT |
|---|---|---|---|
| 0 | 28.72 | 34.487 | 21.77 |
| 10 | 28.73 | 34.485 | 21.77 |
| 20 | 28.76 | 34.512 | 21.78 |
| 30 | 28.81 | 35.684 | 22.64 |
| 40 | 28.37 | 35.888 | 22.94 |
| 50 | 28.00 | 36.058 | 23.19 |
| 60 | 27.48 | 36.324 | 23.56 |
| 70 | 26.60 | 36.564 | 24.03 |
| 80 | 25.99 | 36.889 | 24.47 |
| 90 | 25.51 | 36.970 | 24.68 |
| 100 | 24.78 | 37.002 | 24.92 |
| 110 | 24.28 | 37.137 | 25.18 |
| 120 | 23.79 | 37.129 | 25.32 |
| 130 | 22.93 | 37.030 | 25.49 |
| 140 | 22.24 | 37.049 | 25.71 |
| 150 | 21.05 | 36.926 | 25.95 |
| 160 | 20.52 | 36.887 | 26.06 |
| 170 | 20.05 | 36.827 | 26.14 |
| 180 | 19.80 | 36.807 | 26.20 |
| 190 | 19.56 | 36.864 | 26.30 |
| 200 | 18.95 | 36.757 | 26.38 |
| 250 | 16.08 | 36.214 | 26.66 |
| 300 | 13.94 | 35.794 | 26.82 |
| 350 | 11.68 | 35.385 | 26.95 |
| 400 | 10.35 | 35.170 | 27.02 |
| 450 | 8.91 | 34.926 | 27.08 |
| 500 | 8.06 | 34.816 | 27.12 |
| 550 | 7.40 | 34.738 | 27.16 |
| 600 | 6.74 | 34.666 | 27.19 |
| 650 | 6.41 | 34.655 | 27.23 |
| 700 | 6.14 | 34.641 | 27.25 |
| 750 | 5.86 | 34.630 | 27.28 |
| 800 | 5.69 | 34.642 | 27.31 |
| 850 | 5.48 | 34.639 | 27.33 |
| 900 | 5.39 | 34.673 | 27.37 |
| 950 | 5.34 | 34.693 | 27.39 |
| 1000 | 5.38 | 34.762 | 27.44 |
| 1500 | 4.34 | 35.006 | 27.75 |
| 2000 | 3.48 | 34.977 | 27.82 |
| 2500 | 2.92 | 34.943 | 27.85 |
| 3000 | 2.61 | 34.924 | 27.86 |
| 3304 | 2.43 | 34.911 | 27.86 |

RES-STACS28-87 CTD 37 RESEARCHER
Date 09 14 87 Latitude 13.003 N
Time 0733 Z Longitude 58.507 W



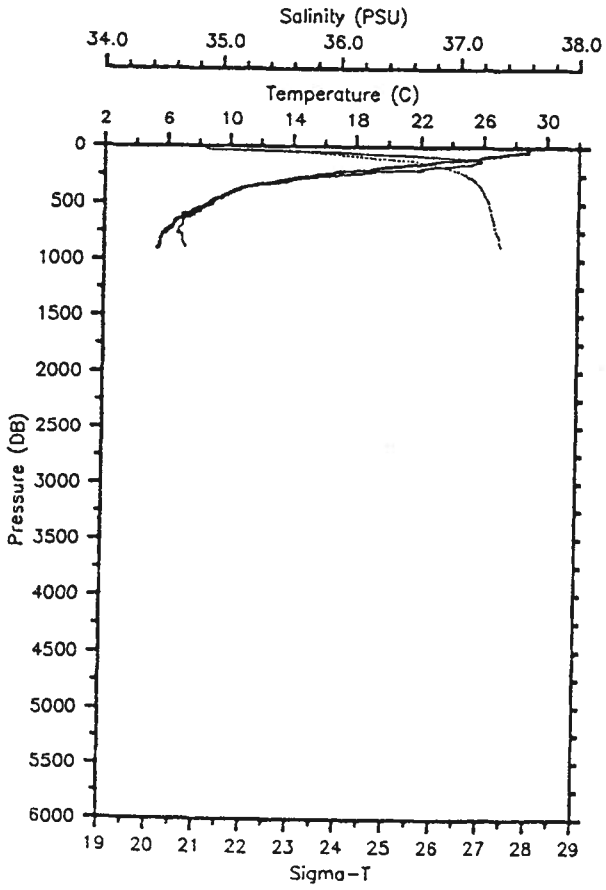

| Prs | Tem | Sal | SigT |
|---|---|---|---|
| 0 | 28.77 | 34.439 | 21.72 |
| 10 | 28.76 | 34.438 | 21.72 |
| 20 | 28.80 | 34.482 | 21.74 |
| 30 | 28.38 | 35.727 | 22.82 |
| 40 | 28.17 | 35.964 | 23.06 |
| 50 | 27.64 | 36.321 | 23.51 |
| 60 | 26.93 | 36.414 | 23.81 |
| 70 | 26.21 | 36.563 | 24.15 |
| 80 | 25.56 | 36.721 | 24.47 |
| 90 | 25.40 | 37.231 | 24.91 |
| 100 | 25.02 | 37.294 | 25.07 |
| 110 | 24.39 | 37.335 | 25.30 |
| 120 | 23.96 | 37.344 | 25.43 |
| 130 | 23.38 | 37.332 | 25.59 |
| 140 | 22.74 | 37.304 | 25.78 |
| 150 | 22.10 | 37.246 | 25.90 |
| 160 | 21.65 | 37.190 | 25.98 |
| 170 | 20.97 | 37.095 | 26.10 |
| 180 | 20.34 | 36.991 | 26.19 |
| 190 | 19.82 | 36.891 | 26.25 |
| 200 | 19.13 | 36.770 | 26.34 |
| 250 | 15.94 | 36.147 | 26.64 |
| 300 | 12.28 | 35.466 | 26.90 |
| 350 | 10.09 | 35.071 | 26.99 |
| 400 | 8.13 | 34.941 | 27.05 |
| 450 | 8.22 | 34.804 | 27.09 |
| 500 | 7.84 | 34.766 | 27.11 |
| 550 | 7.32 | 34.714 | 27.15 |
| 600 | 7.22 | 34.736 | 27.18 |
| 650 | 6.42 | 34.660 | 27.23 |
| 700 | 6.06 | 34.635 | 27.26 |
| 750 | 5.70 | 34.614 | 27.29 |
| 800 | 5.60 | 34.618 | 27.30 |
| 850 | 5.51 | 34.625 | 27.32 |
| 900 | 5.44 | 34.641 | 27.34 |
| 950 | 5.42 | 34.685 | 27.38 |
| 1000 | 5.35 | 34.752 | 27.44 |
| 1500 | 4.13 | 34.999 | 27.77 |
| 2000 | 3.41 | 34.972 | 27.82 |
| 2470 | 3.26 | 34.962 | 27.83 |

RES-STACS28-87 CTD 38 RESEARCHER
Date 09 14 87 Latitude 13.000 N
Time 1023 Z Longitude 59.000 W



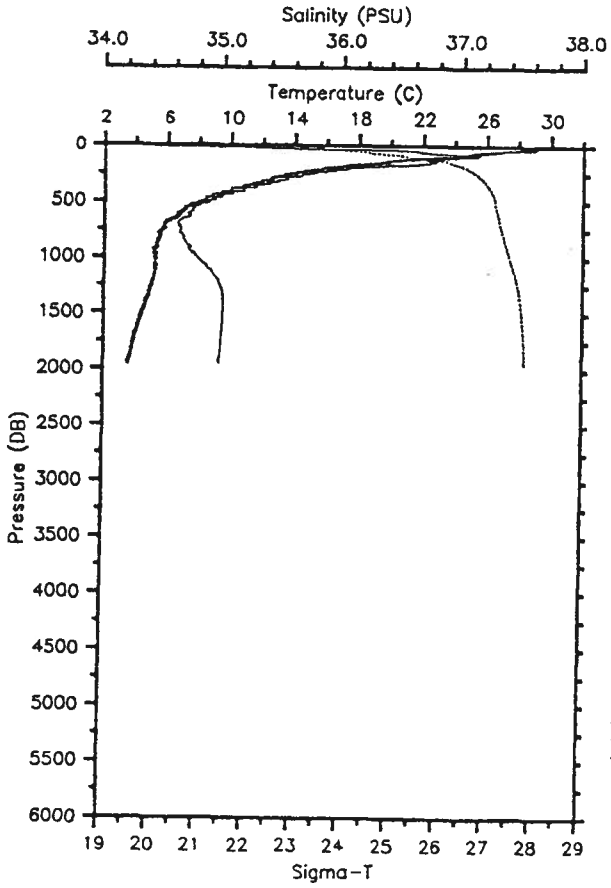

| Prs | Tem | Sal | SigT |
|---|---|---|---|
| 0 | 28.80 | 34.767 | 21.96 |
| 10 | 28.79 | 34.766 | 21.96 |
| 20 | 28.79 | 34.767 | 21.96 |
| 30 | 28.79 | 34.768 | 21.96 |
| 40 | 28.40 | 35.640 | 22.75 |
| 50 | 27.37 | 36.188 | 23.50 |
| 60 | 26.85 | 36.413 | 23.83 |
| 70 | 26.42 | 36.663 | 24.16 |
| 80 | 26.20 | 36.864 | 24.38 |
| 90 | 25.72 | 36.946 | 24.59 |
| 100 | 25.10 | 37.111 | 24.91 |
| 110 | 24.72 | 37.177 | 25.07 |
| 120 | 24.18 | 37.248 | 25.29 |
| 130 | 23.28 | 37.232 | 25.55 |
| 140 | 22.73 | 37.268 | 25.74 |
| 150 | 21.96 | 37.168 | 25.88 |
| 160 | 21.63 | 37.138 | 25.95 |
| 170 | 20.98 | 37.063 | 26.07 |
| 180 | 20.16 | 36.894 | 26.17 |
| 190 | 19.34 | 36.700 | 26.24 |
| 200 | 18.38 | 36.519 | 26.34 |
| 250 | 16.23 | 36.151 | 26.58 |
| 300 | 13.85 | 35.728 | 26.78 |
| 350 | 12.07 | 35.438 | 26.92 |
| 400 | 10.41 | 35.166 | 27.01 |
| 450 | 9.07 | 34.977 | 27.09 |
| 500 | 8.36 | 34.886 | 27.13 |
| 550 | 7.54 | 34.781 | 27.17 |
| 600 | 7.06 | 34.743 | 27.21 |
| 650 | 6.43 | 34.683 | 27.25 |
| 700 | 6.05 | 34.671 | 27.29 |
| 750 | 5.74 | 34.692 | 27.34 |
| 800 | 5.69 | 34.725 | 27.37 |
| 850 | 5.38 | 34.726 | 27.41 |
| 900 | 5.25 | 34.764 | 27.46 |
| 950 | 5.36 | 34.818 | 27.49 |
| 1000 | 5.38 | 34.858 | 27.52 |
| 1486 | 4.20 | 34.998 | 27.76 |

RES-STACS28-87 CTD 39 RESEARCHER
Date 09 16 87 Latitude 13.000 N
Time 1543 Z Longitude 59.362 W




| Prs | Tem | Sal | SigT |
|---|---|---|---|
| 0 | 28.90 | 34.841 | 21.98 |
| 10 | 28.86 | 34.853 | 22.00 |
| 20 | 28.85 | 34.861 | 22.01 |
| 30 | 28.85 | 34.864 | 22.02 |
| 40 | 28.74 | 35.135 | 22.26 |
| 50 | 28.12 | 35.767 | 22.93 |
| 60 | 27.51 | 36.165 | 23.43 |
| 70 | 26.97 | 36.285 | 23.70 |
| 80 | 26.32 | 36.662 | 24.19 |
| 90 | 25.84 | 36.845 | 24.48 |
| 100 | 25.72 | 37.008 | 24.64 |
| 110 | 24.96 | 37.125 | 24.96 |
| 120 | 24.00 | 37.178 | 25.28 |
| 130 | 22.87 | 37.154 | 25.61 |
| 140 | 22.66 | 37.171 | 25.68 |
| 150 | 22.30 | 37.123 | 25.75 |
| 160 | 21.87 | 37.026 | 25.85 |
| 170 | 20.92 | 36.937 | 25.99 |
| 180 | 19.82 | 36.785 | 26.17 |
| 190 | 19.34 | 36.695 | 26.23 |
| 200 | 18.99 | 36.656 | 26.29 |
| 250 | 15.41 | 35.996 | 26.65 |
| 300 | 13.22 | 35.600 | 26.81 |
| 350 | 11.46 | 35.308 | 26.93 |
| 400 | 10.22 | 35.114 | 27.00 |
| 450 | 9.43 | 35.018 | 27.06 |
| 500 | 8.85 | 34.921 | 27.11 |
| 550 | 7.87 | 34.768 | 27.14 |
| 600 | 7.07 | 34.720 | 27.19 |
| 650 | 6.57 | 34.675 | 27.22 |
| 700 | 6.38 | 34.668 | 27.24 |
| 750 | 5.86 | 34.622 | 27.27 |
| 800 | 5.62 | 34.664 | 27.34 |
| 850 | 5.54 | 34.668 | 27.35 |
| 900 | 5.37 | 34.690 | 27.39 |

RES-STACS28-87 CTD 40 RESEARCHER
Date 09 17 87 Latitude 12.117 N
Time 1117 Z Longitude 55.415 W

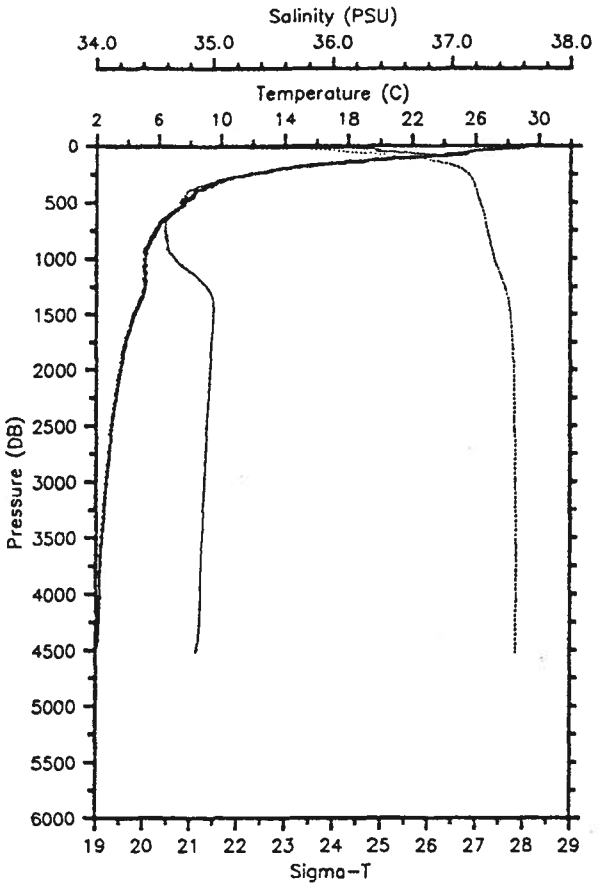



| Prs | Tem | Sal | SigT |
|---|---|---|---|
| 0 | 28.74 | 33.966 | 21.38 |
| 10 | 28.81 | 34.395 | 21.67 |
| 20 | 28.93 | 34.714 | 21.87 |
| 30 | 28.74 | 35.385 | 22.44 |
| 40 | 27.09 | 36.421 | 23.76 |
| 50 | 26.56 | 36.616 | 24.08 |
| 60 | 25.73 | 36.701 | 24.40 |
| 70 | 24.91 | 36.724 | 24.68 |
| 80 | 24.88 | 37.128 | 24.99 |
| 90 | 24.01 | 37.099 | 25.23 |
| 100 | 22.96 | 36.934 | 25.41 |
| 110 | 22.28 | 36.877 | 25.57 |
| 120 | 21.42 | 36.826 | 25.77 |
| 130 | 20.55 | 36.752 | 25.95 |
| 140 | 19.76 | 36.716 | 26.14 |
| 150 | 19.44 | 36.747 | 26.24 |
| 160 | 18.98 | 36.676 | 26.31 |
| 170 | 18.50 | 36.588 | 26.38 |
| 180 | 17.27 | 36.342 | 26.48 |
| 190 | 16.93 | 36.278 | 26.51 |
| 200 | 16.32 | 36.162 | 26.57 |
| 250 | 13.98 | 35.746 | 26.77 |
| 300 | 12.51 | 35.534 | 26.91 |
| 350 | 11.45 | 35.387 | 26.99 |
| 400 | 10.02 | 35.169 | 27.08 |
| 450 | 8.81 | 34.984 | 27.14 |
| 500 | 7.95 | 34.867 | 27.18 |
| 550 | 7.17 | 34.755 | 27.20 |
| 600 | 6.84 | 34.729 | 27.23 |
| 650 | 6.47 | 34.696 | 27.25 |
| 700 | 5.83 | 34.621 | 27.28 |
| 750 | 5.72 | 34.647 | 27.31 |
| 800 | 5.47 | 34.651 | 27.34 |
| 850 | 5.39 | 34.677 | 27.37 |
| 900 | 5.26 | 34.708 | 27.41 |
| 950 | 5.13 | 34.728 | 27.44 |
| 1000 | 5.21 | 34.779 | 27.48 |
| 1500 | 4.43 | 35.004 | 27.74 |
| 1944 | 3.60 | 34.977 | 27.81 |

RES-STACS28-87 CTD 41 RESEARCHER

Date 09 17 87 Latitude 11.250 N

Time 1838 Z Longitude 55.903 W

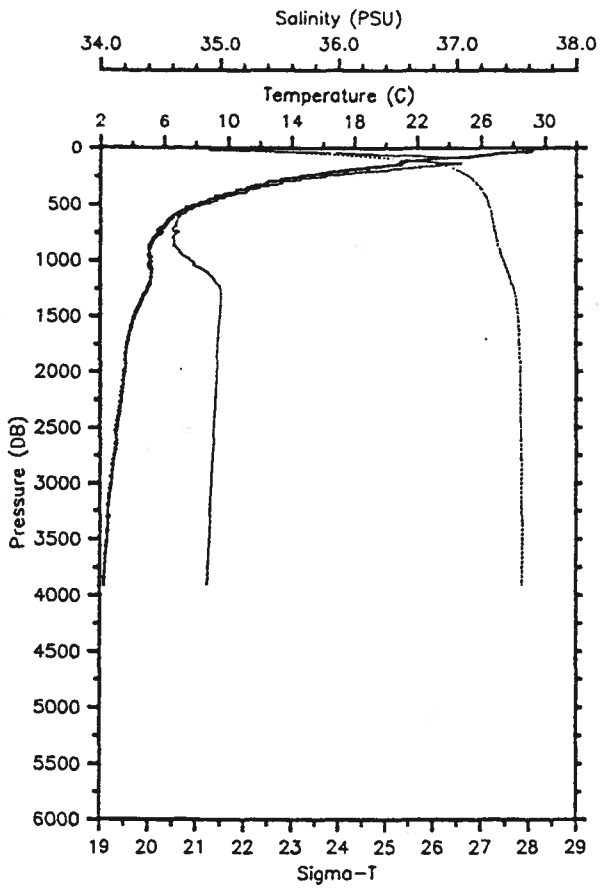



| Prs | Tem | Sal | SigT |
|---|---|---|---|
| 0 | 29.13 | 34.042 | 21.31 |
| 10 | 29.01 | 34.048 | 21.35 |
| 20 | 29.03 | 34.266 | 21.51 |
| 30 | 27.80 | 36.338 | 23.47 |
| 40 | 26.68 | 36.383 | 23.86 |
| 50 | 25.77 | 36.353 | 24.13 |
| 60 | 25.45 | 36.622 | 24.43 |
| 70 | 24.59 | 36.679 | 24.74 |
| 80 | 24.36 | 36.972 | 25.03 |
| 90 | 23.74 | 37.063 | 25.28 |
| 100 | 21.84 | 36.752 | 25.60 |
| 110 | 21.00 | 36.707 | 25.80 |
| 120 | 20.27 | 36.654 | 25.95 |
| 130 | 19.28 | 36.482 | 26.08 |
| 140 | 18.07 | 36.318 | 26.26 |
| 150 | 17.82 | 36.279 | 26.30 |
| 160 | 16.82 | 36.122 | 26.42 |
| 170 | 16.00 | 35.979 | 26.50 |
| 180 | 15.46 | 35.885 | 26.55 |
| 190 | 14.93 | 35.797 | 26.60 |
| 200 | 14.06 | 35.630 | 26.66 |
| 250 | 11.86 | 35.299 | 26.85 |
| 300 | 10.19 | 35.036 | 26.85 |
| 350 | 9.40 | 34.918 | 26.99 |
| 400 | 8.41 | 34.780 | 27.04 |
| 450 | 8.18 | 34.766 | 27.06 |
| 500 | 7.60 | 34.713 | 27.11 |
| 550 | 7.25 | 34.697 | 27.15 |
| 600 | 6.81 | 34.655 | 27.17 |
| 650 | 6.33 | 34.613 | 27.20 |
| 700 | 6.07 | 34.592 | 27.22 |
| 750 | 5.79 | 34.583 | 27.25 |
| 800 | 5.66 | 34.598 | 27.28 |
| 850 | 5.43 | 34.599 | 27.31 |
| 900 | 5.27 | 34.610 | 27.33 |
| 950 | 5.14 | 34.628 | 27.36 |
| 1000 | 5.17 | 34.680 | 27.40 |
| 1500 | 4.43 | 35.004 | 27.74 |
| 2000 | 3.56 | 34.976 | 27.81 |
| 2500 | 3.05 | 34.949 | 27.84 |
| 3000 | 2.70 | 34.928 | 27.85 |
| 3500 | 2.39 | 34.906 | 27.86 |
| 4000 | 2.26 | 34.894 | 27.87 |
| 4500 | 2.04 | 34.861 | 27.86 |
| 4518 | 2.01 | 34.857 | 27.86 |

RES-STACS28-87 CTD 42 RESEARCHER

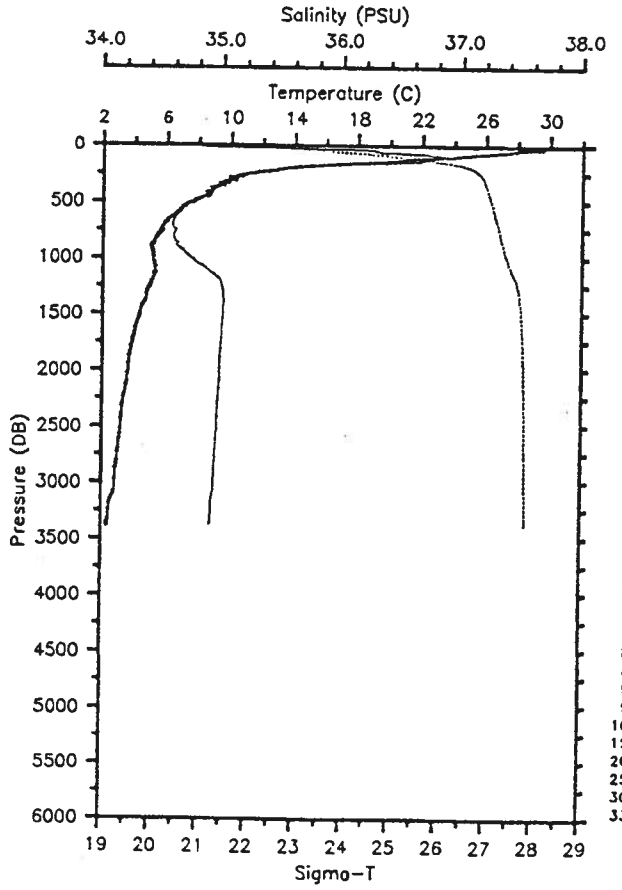
Date 09 18 87 Latitude 10.378 N

Time 0130 Z Longitude 56.388 W



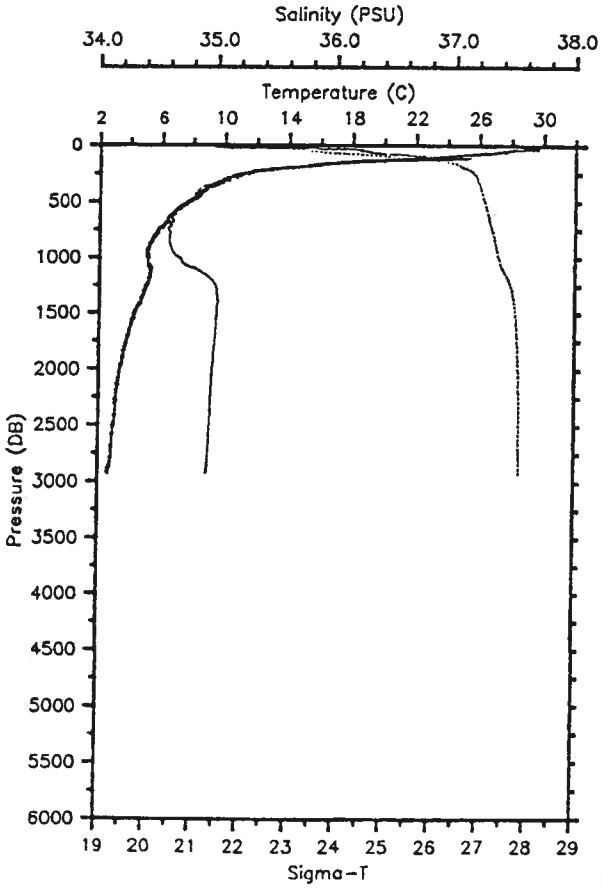

| Prs | Tem | Sal | SigT |
|---|---|---|---|
| 0 | 29.65 | 34.913 | 21.78 |
| 10 | 29.25 | 34.905 | 21.91 |
| 20 | 29.21 | 34.906 | 21.93 |
| 30 | 29.04 | 35.231 | 22.23 |
| 40 | 28.44 | 35.781 | 22.84 |
| 50 | 27.25 | 36.122 | 23.49 |
| 60 | 26.63 | 36.425 | 23.91 |
| 70 | 25.86 | 36.623 | 24.30 |
| 80 | 25.07 | 36.886 | 24.75 |
| 90 | 23.78 | 36.763 | 25.04 |
| 100 | 22.84 | 36.767 | 25.32 |
| 110 | 22.13 | 36.745 | 25.51 |
| 120 | 21.28 | 36.699 | 25.71 |
| 130 | 21.07 | 36.928 | 25.95 |
| 140 | 20.84 | 37.000 | 26.06 |
| 150 | 20.15 | 36.877 | 26.16 |
| 160 | 19.60 | 36.821 | 26.26 |
| 170 | 18.89 | 36.684 | 26.34 |
| 180 | 18.14 | 36.528 | 26.41 |
| 190 | 17.55 | 36.437 | 26.49 |
| 200 | 17.27 | 36.378 | 26.51 |
| 250 | 14.64 | 35.894 | 26.74 |
| 300 | 12.46 | 35.519 | 26.90 |
| 350 | 11.26 | 35.330 | 26.99 |
| 400 | 10.13 | 35.161 | 27.06 |
| 450 | 9.21 | 35.034 | 27.11 |
| 500 | 8.33 | 34.918 | 27.16 |
| 550 | 7.39 | 34.776 | 27.19 |
| 600 | 6.54 | 34.667 | 27.22 |
| 650 | 6.23 | 34.638 | 27.24 |
| 700 | 6.00 | 34.636 | 27.27 |
| 750 | 5.87 | 34.658 | 27.30 |
| 800 | 5.37 | 34.608 | 27.32 |
| 850 | 5.17 | 34.613 | 27.35 |
| 900 | 5.09 | 34.646 | 27.38 |
| 950 | 5.07 | 34.681 | 27.41 |
| 1000 | 5.13 | 34.754 | 27.47 |
| 1500 | 4.17 | 35.000 | 27.77 |
| 2000 | 3.50 | 34.974 | 27.82 |
| 2500 | 3.05 | 34.950 | 27.84 |
| 3000 | 2.71 | 34.928 | 27.85 |
| 3500 | 2.46 | 34.911 | 27.86 |
| 3906 | 2.28 | 34.897 | 27.87 |

RES-STACS28-87 CTD 43 RESEARCHER
Date 09 18 87 Latitude 9.483 N
Time 0807 Z Longitude 56.863 W



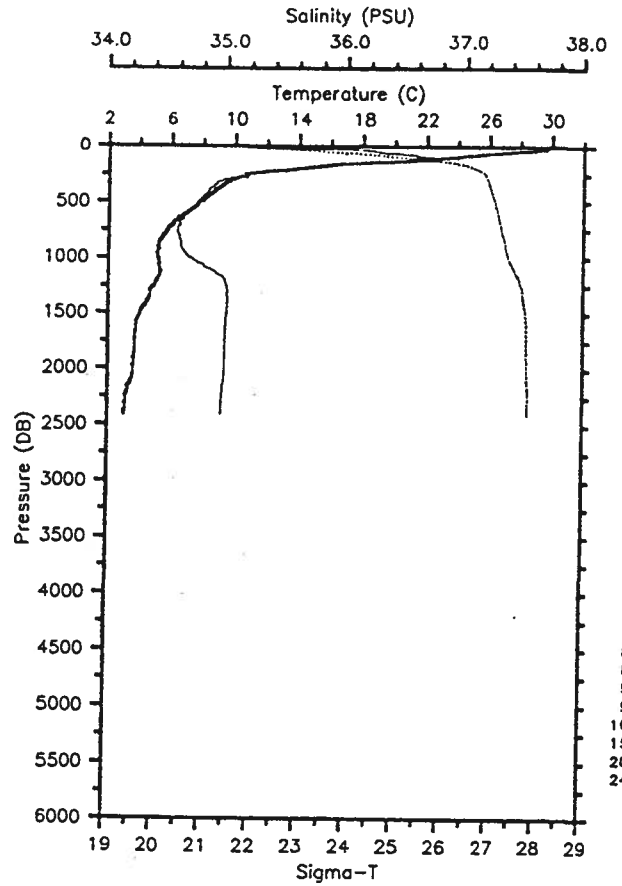

| Prs | Tem | Sal | SigT |
|---|---|---|---|
| 0 | 29.55 | 34.827 | 21.75 |
| 10 | 29.53 | 34.823 | 21.75 |
| 20 | 29.50 | 34.825 | 21.77 |
| 30 | 28.93 | 35.275 | 22.30 |
| 40 | 27.75 | 36.209 | 23.39 |
| 50 | 27.28 | 36.296 | 23.81 |
| 60 | 26.46 | 36.365 | 23.92 |
| 70 | 25.51 | 36.576 | 24.38 |
| 80 | 24.74 | 36.785 | 24.77 |
| 90 | 24.12 | 36.801 | 24.97 |
| 100 | 22.89 | 36.804 | 25.34 |
| 110 | 21.95 | 36.694 | 25.52 |
| 120 | 20.97 | 36.657 | 25.77 |
| 130 | 20.48 | 36.670 | 25.91 |
| 140 | 20.02 | 36.618 | 25.99 |
| 150 | 18.53 | 36.423 | 26.23 |
| 160 | 16.88 | 36.100 | 26.38 |
| 170 | 16.19 | 36.019 | 26.49 |
| 180 | 15.20 | 35.846 | 26.58 |
| 190 | 14.32 | 35.702 | 26.66 |
| 200 | 13.82 | 35.618 | 26.70 |
| 250 | 11.39 | 35.217 | 26.87 |
| 300 | 10.30 | 35.079 | 26.96 |
| 350 | 9.62 | 34.978 | 27.00 |
| 400 | 8.82 | 34.866 | 27.04 |
| 450 | 8.60 | 34.869 | 27.08 |
| 500 | 7.70 | 34.742 | 27.12 |
| 550 | 6.96 | 34.661 | 27.16 |
| 600 | 6.63 | 34.632 | 27.18 |
| 650 | 6.17 | 34.600 | 27.21 |
| 700 | 5.81 | 34.583 | 27.25 |
| 750 | 5.62 | 34.592 | 27.28 |
| 800 | 5.42 | 34.590 | 27.30 |
| 850 | 5.23 | 34.604 | 27.33 |
| 900 | 5.01 | 34.620 | 27.37 |
| 950 | 5.11 | 34.679 | 27.41 |
| 1000 | 5.13 | 34.732 | 27.45 |
| 1500 | 4.36 | 35.005 | 27.75 |
| 2000 | 3.65 | 34.981 | 27.81 |
| 2500 | 3.21 | 34.958 | 27.83 |
| 3000 | 2.87 | 34.937 | 27.85 |
| 3378 | 2.38 | 34.908 | 27.87 |

RES-STACS28-87 CTD 44 RESEARCHER
Date 09 18 87 Latitude 9.048 N
Time 1216 Z Longitude 57.165 W



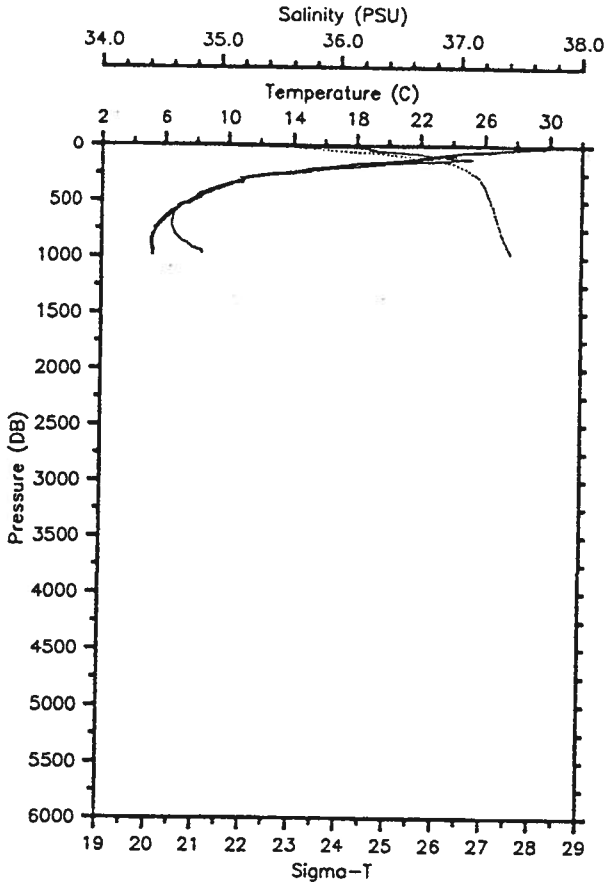

| Prs | Tem | Sal | SigT |
|---|---|---|---|
| 0 | 29.62 | 34.979 | 21.84 |
| 10 | 29.62 | 34.979 | 21.84 |
| 20 | 29.62 | 34.981 | 21.84 |
| 30 | 29.54 | 35.716 | 22.42 |
| 40 | 28.17 | 36.214 | 23.25 |
| 50 | 27.66 | 36.185 | 23.40 |
| 60 | 27.16 | 36.29[illegible] | 23.64 |
| 70 | 26.27 | 36.324 | 23.95 |
| 80 | 25.34 | 36.450 | 24.33 |
| 90 | 24.34 | 36.615 | 24.76 |
| 100 | 23.53 | 36.703 | 25.07 |
| 110 | 23.00 | 36.828 | 25.32 |
| 120 | 22.52 | 37.094 | 25.66 |
| 130 | 20.70 | 36.724 | 25.89 |
| 140 | 18.89 | 36.456 | 26.17 |
| 150 | 17.31 | 36.216 | 26.37 |
| 160 | 16.73 | 36.115 | 26.44 |
| 170 | 15.79 | 35.966 | 26.54 |
| 180 | 15.32 | 35.886 | 26.58 |
| 190 | 14.96 | 35.815 | 26.61 |
| 200 | 13.96 | 35.640 | 26.69 |
| 250 | 11.46 | 35.228 | 26.87 |
| 300 | 10.23 | 35.052 | 26.95 |
| 350 | 9.51 | 34.946 | 26.99 |
| 400 | 8.74 | 34.844 | 27.04 |
| 450 | 8.37 | 34.821 | 27.08 |
| 500 | 7.69 | 34.739 | 27.11 |
| 550 | 7.17 | 34.678 | 27.14 |
| 600 | 6.75 | 34.645 | 27.17 |
| 650 | 6.41 | 34.622 | 27.20 |
| 700 | 6.11 | 34.605 | 27.23 |
| 750 | 5.77 | 34.587 | 27.26 |
| 800 | 5.61 | 34.599 | 27.29 |
| 850 | 5.35 | 34.595 | 27.31 |
| 900 | 5.21 | 34.610 | 27.34 |
| 950 | 5.07 | 34.626 | 27.37 |
| 1000 | 5.10 | 34.671 | 27.40 |
| 1500 | 4.28 | 35.001 | 27.76 |
| 2000 | 3.38 | 34.969 | 27.82 |
| 2500 | 2.99 | 34.947 | 27.84 |
| 2922 | 2.66 | 34.926 | 27.86 |

RES-STACS28-87 CTD 45 RESEARCHER
Date 09 18 87 Latitude 8.620 N
Time 1602 Z Longitude 57.370 W



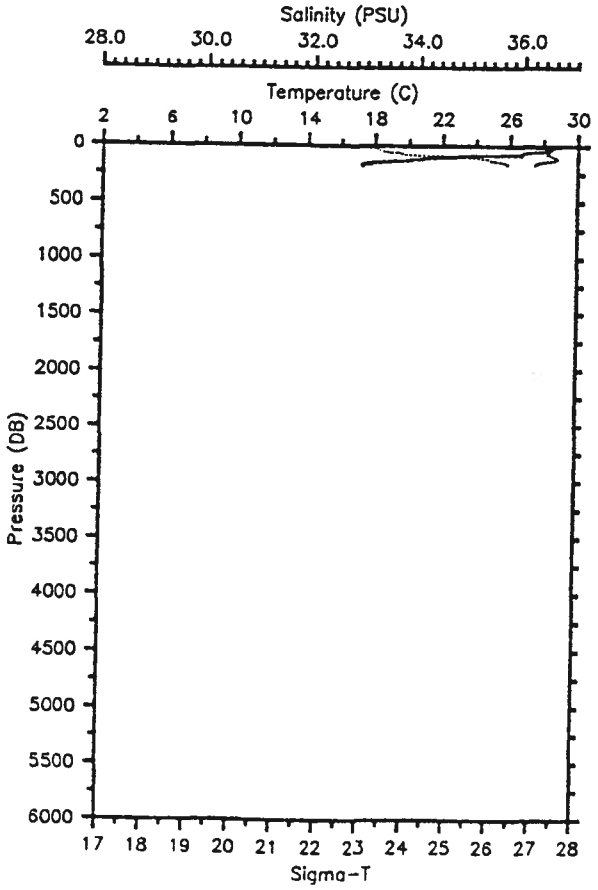

| Prs | Tem | Sal | SigT |
|---|---|---|---|
| 0 | 29.80 | 35.191 | 21.94 |
| 10 | 29.58 | 35.168 | 22.00 |
| 20 | 29.58 | 35.182 | 22.01 |
| 30 | 29.30 | 35.988 | 22.71 |
| 40 | 28.70 | 36.185 | 23.06 |
| 50 | 27.45 | 36.260 | 23.52 |
| 60 | 26.67 | 36.272 | 23.78 |
| 70 | 25.69 | 36.445 | 24.22 |
| 80 | 24.82 | 36.583 | 24.60 |
| 90 | 24.11 | 36.580 | 24.81 |
| 100 | 23.39 | 36.712 | 25.12 |
| 110 | 22.05 | 36.759 | 25.54 |
| 120 | 21.35 | 36.763 | 25.74 |
| 130 | 20.65 | 36.674 | 25.87 |
| 140 | 18.96 | 36.420 | 26.12 |
| 150 | 17.92 | 36.260 | 26.26 |
| 160 | 16.53 | 36.030 | 26.42 |
| 170 | 15.70 | 35.909 | 26.52 |
| 180 | 15.22 | 35.846 | 26.58 |
| 190 | 14.56 | 35.746 | 26.64 |
| 200 | 13.99 | 35.670 | 26.71 |
| 250 | 10.71 | 35.116 | 26.92 |
| 300 | 8.75 | 34.963 | 26.97 |
| 350 | 9.18 | 34.890 | 27.00 |
| 400 | 8.75 | 34.843 | 27.04 |
| 450 | 8.29 | 34.799 | 27.07 |
| 500 | 7.90 | 34.773 | 27.11 |
| 550 | 7.47 | 34.728 | 27.14 |
| 600 | 6.98 | 34.681 | 27.17 |
| 650 | 6.46 | 34.626 | 27.20 |
| 700 | 6.10 | 34.609 | 27.23 |
| 750 | 5.76 | 34.586 | 27.26 |
| 800 | 5.56 | 34.593 | 27.29 |
| 850 | 5.30 | 34.609 | 27.33 |
| 900 | 5.18 | 34.610 | 27.34 |
| 950 | 5.17 | 34.641 | 27.37 |
| 1000 | 5.15 | 34.684 | 27.41 |
| 1500 | 4.05 | 34.997 | 27.78 |
| 2000 | 3.63 | 34.980 | 27.81 |
| 2400 | 3.12 | 34.955 | 27.84 |

RES-STACS28-87 CTD 46 RESEARCHER
Date 09 18 87 Latitude 8.220 N
Time 1924 Z Longitude 57.595 W



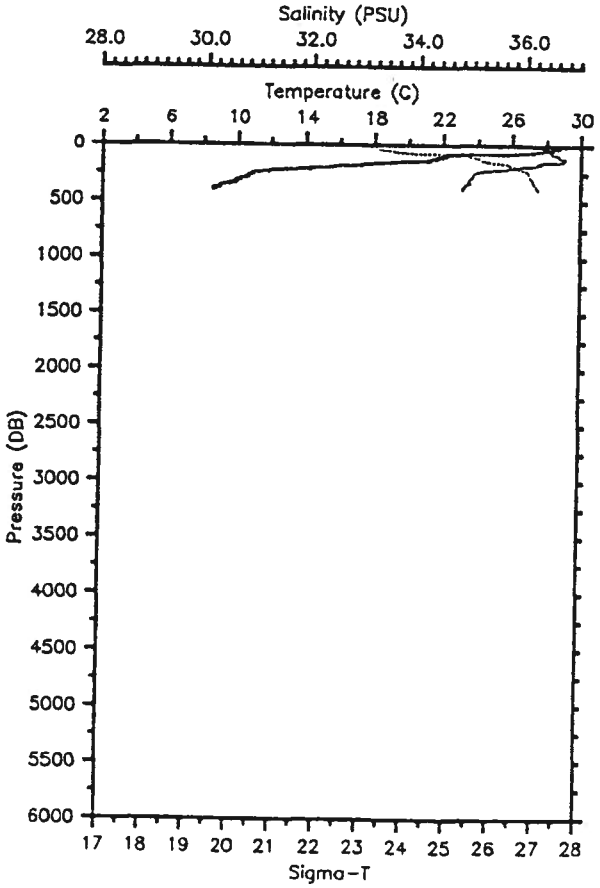

| Prs | Tem | Sal | SigT |
|---|---|---|---|
| 0 | 29.92 | 35.012 | 21.76 |
| 10 | 29.57 | 35.010 | 21.88 |
| 20 | 29.45 | 35.534 | 22.32 |
| 30 | 28.40 | 36.228 | 23.19 |
| 40 | 27.38 | 36.235 | 23.53 |
| 50 | 26.53 | 36.285 | 23.84 |
| 60 | 25.65 | 36.491 | 24.27 |
| 70 | 24.30 | 36.599 | 24.77 |
| 80 | 23.79 | 36.684 | 24.98 |
| 90 | 23.21 | 36.773 | 25.22 |
| 100 | 22.95 | 36.872 | 25.45 |
| 110 | 22.37 | 36.874 | 25.54 |
| 120 | 21.83 | 36.832 | 25.74 |
| 130 | 21.08 | 36.846 | 25.96 |
| 140 | 20.39 | 36.835 | 26.06 |
| 150 | 19.49 | 36.662 | 26.17 |
| 160 | 18.23 | 36.428 | 26.31 |
| 170 | 17.74 | 36.364 | 26.38 |
| 180 | 17.15 | 36.247 | 26.44 |
| 190 | 16.58 | 36.154 | 26.50 |
| 200 | 16.07 | 36.056 | 26.54 |
| 250 | 13.62 | 35.603 | 26.73 |
| 300 | 10.99 | 35.147 | 26.89 |
| 350 | 10.16 | 35.047 | 26.96 |
| 400 | 9.16 | 34.903 | 27.02 |
| 450 | 8.40 | 34.802 | 27.06 |
| 500 | 7.75 | 34.743 | 27.11 |
| 550 | 6.91 | 34.657 | 27.16 |
| 600 | 6.42 | 34.618 | 27.20 |
| 650 | 6.04 | 34.595 | 27.23 |
| 700 | 5.68 | 34.586 | 27.27 |
| 750 | 5.38 | 34.593 | 27.31 |
| 800 | 5.23 | 34.617 | 27.35 |
| 850 | 5.12 | 34.663 | 27.39 |
| 900 | 5.12 | 34.735 | 27.45 |
| 950 | 5.19 | 34.834 | 27.52 |
| 978 | 5.19 | 34.844 | 27.53 |

RES-STACS28-87 CTD 47 RESEARCHER
Date 09 19 87 Latitude 7.015 N
Time 1916 Z Longitude 53.093 W




| Prs | Tem | Sal | SigT |
|---|---|---|---|
| 0 | 29.66 | 30.633 | 18.57 |
| 10 | 28.83 | 35.166 | 22.25 |
| 20 | 28.53 | 36.064 | 23.02 |
| 30 | 28.27 | 36.392 | 23.36 |
| 40 | 28.32 | 36.477 | 23.40 |
| 50 | 27.92 | 36.446 | 23.51 |
| 60 | 26.95 | 36.336 | 23.74 |
| 70 | 26.72 | 36.452 | 23.90 |
| 80 | 26.48 | 36.455 | 23.98 |
| 90 | 23.36 | 36.495 | 24.96 |
| 100 | 22.57 | 36.523 | 25.21 |
| 110 | 21.07 | 36.592 | 25.69 |
| 120 | 20.64 | 36.612 | 25.82 |
| 130 | 20.01 | 36.567 | 25.96 |
| 140 | 19.23 | 36.452 | 26.07 |
| 150 | 17.91 | 36.267 | 26.27 |
| 160 | 17.54 | 36.223 | 26.32 |
| 170 | 17.27 | 36.187 | 26.36 |
| 176 | 17.25 | 36.186 | 26.37 |

RES-STACS28-87 CTD 48 RESEARCHER
Date 09 20 87 Latitude 7.182 N
Time 1030 Z Longitude 52.952 W

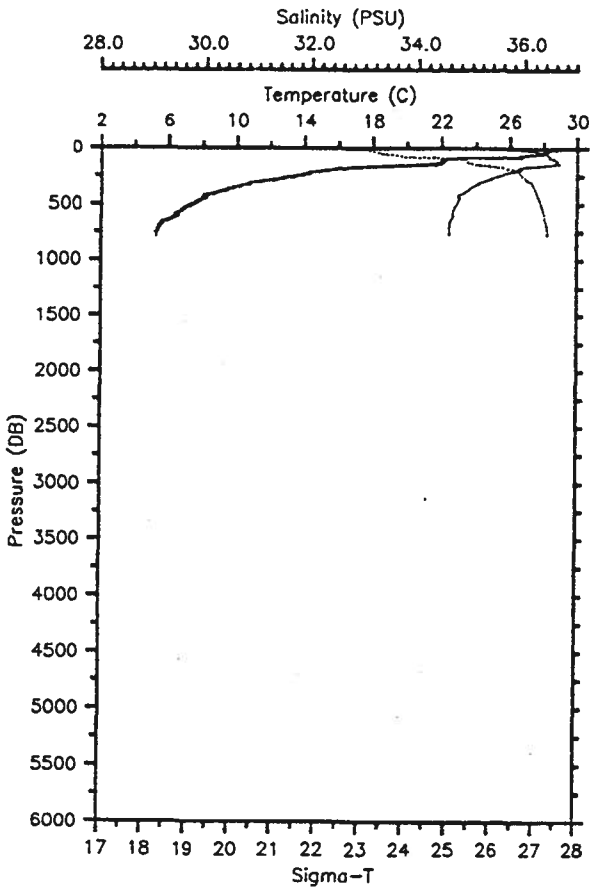



| Prs | Tem | Sal | SigT |
|---|---|---|---|
| 0 | 29.30 | 28.960 | 17.44 |
| 10 | 28.84 | 35.593 | 22.57 |
| 20 | 28.74 | 36.170 | 23.03 |
| 30 | 28.39 | 36.394 | 23.32 |
| 40 | 28.36 | 36.437 | 23.36 |
| 50 | 27.97 | 36.415 | 23.47 |
| 60 | 27.31 | 36.434 | 23.70 |
| 70 | 26.70 | 36.438 | 23.90 |
| 80 | 25.29 | 36.453 | 24.35 |
| 90 | 22.16 | 36.589 | 25.38 |
| 100 | 22.06 | 36.608 | 25.43 |
| 110 | 21.72 | 36.595 | 25.51 |
| 120 | 21.54 | 36.701 | 25.64 |
| 130 | 21.25 | 36.673 | 25.70 |
| 140 | 21.10 | 36.681 | 25.76 |
| 150 | 19.80 | 36.385 | 25.87 |
| 160 | 18.57 | 36.270 | 26.10 |
| 170 | 17.46 | 36.212 | 26.33 |
| 180 | 17.17 | 36.162 | 26.37 |
| 190 | 15.70 | 35.872 | 26.49 |
| 200 | 15.26 | 35.789 | 26.52 |
| 250 | 10.88 | 35.011 | 26.81 |
| 300 | 10.17 | 34.932 | 26.87 |
| 350 | 9.44 | 34.876 | 26.95 |
| 398 | 8.57 | 34.790 | 27.02 |

RES-STACS28-87 CTD 49 RESEARCHER

Date 09 20 87 Latitude 7.337 N

Time 1203 Z Longitude 52.827 W

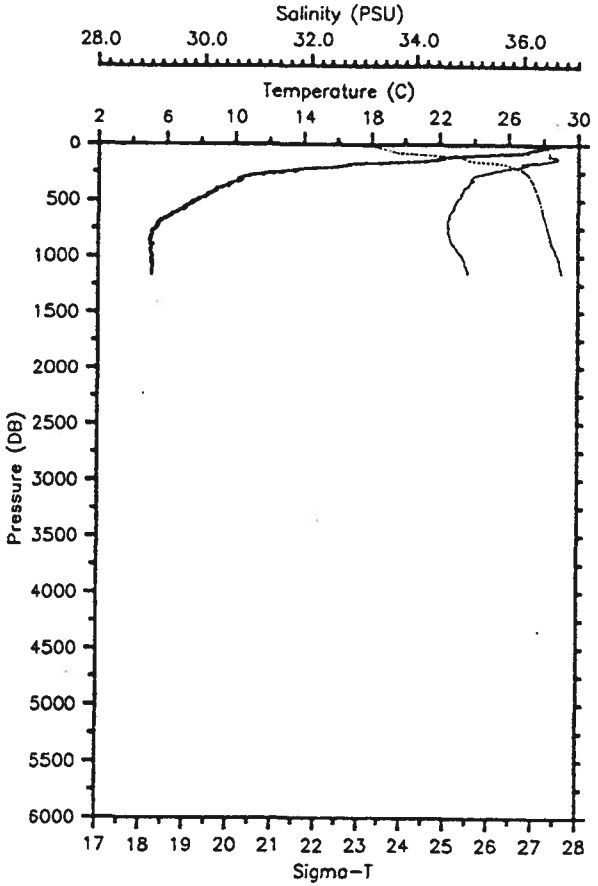



| Prs | Tem | Sal | SigT |
|---|---|---|---|
| 0 | 28.99 | 34.923 | 22.01 |
| 10 | 28.73 | 35.603 | 22.61 |
| 20 | 28.32 | 36.033 | 23.07 |
| 30 | 28.13 | 36.182 | 23.24 |
| 40 | 28.01 | 36.335 | 23.40 |
| 50 | 27.88 | 36.359 | 23.46 |
| 60 | 27.36 | 36.429 | 23.68 |
| 70 | 26.87 | 36.467 | 23.93 |
| 80 | 26.50 | 36.468 | 23.98 |
| 90 | 23.01 | 36.457 | 25.04 |
| 100 | 22.34 | 36.558 | 25.31 |
| 110 | 22.09 | 36.599 | 25.41 |
| 120 | 22.06 | 36.611 | 25.43 |
| 130 | 21.97 | 36.608 | 25.45 |
| 140 | 21.72 | 36.572 | 25.49 |
| 150 | 21.43 | 36.597 | 25.59 |
| 160 | 19.53 | 36.352 | 25.92 |
| 170 | 17.61 | 35.974 | 26.11 |
| 180 | 16.43 | 35.871 | 26.32 |
| 190 | 15.92 | 35.921 | 26.48 |
| 200 | 15.35 | 35.864 | 26.56 |
| 250 | 13.45 | 35.515 | 26.70 |
| 300 | 11.43 | 35.216 | 26.87 |
| 350 | 9.77 | 34.970 | 26.97 |
| 400 | 8.73 | 34.830 | 27.03 |
| 450 | 7.99 | 34.750 | 27.08 |
| 500 | 7.39 | 34.705 | 27.13 |
| 550 | 6.78 | 34.650 | 27.17 |
| 600 | 6.39 | 34.634 | 27.21 |
| 650 | 5.93 | 34.603 | 27.25 |
| 700 | 5.46 | 34.576 | 27.28 |
| 750 | 5.28 | 34.576 | 27.31 |
| 778 | 5.26 | 34.576 | 27.31 |

RES-STACS28-87 CTD 50 RESEARCHER

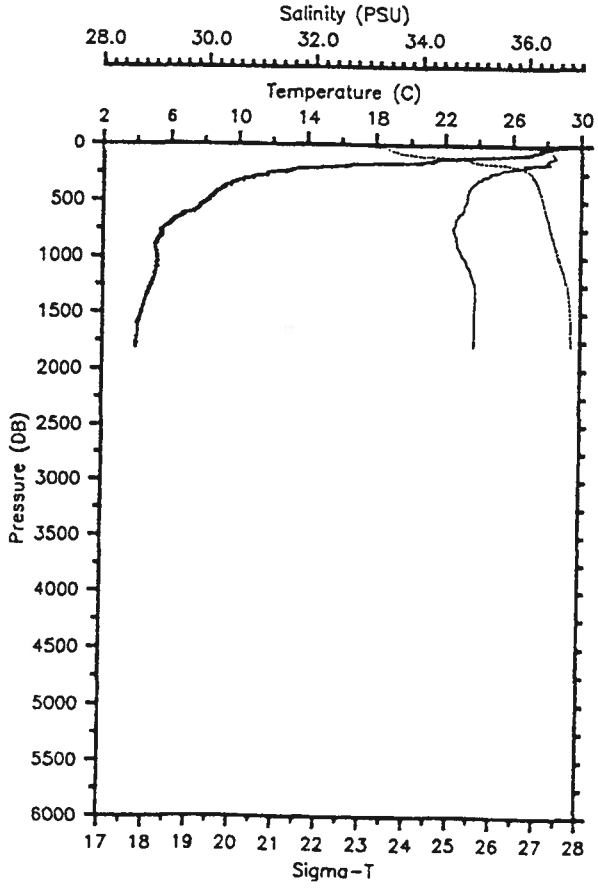
Date 09 20 87 Latitude 7.550 N

Time 1344 Z Longitude 52.728 W



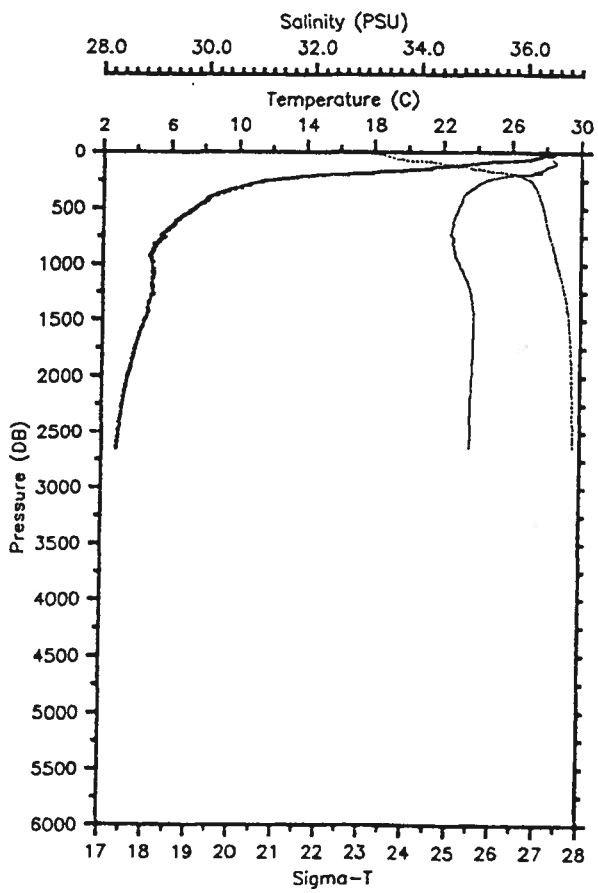

| Prs | Tem | Sal | SigT |
|---|---|---|---|
| 0 | 29.55 | 32.026 | 19.65 |
| 10 | 28.85 | 35.181 | 22.25 |
| 20 | 28.55 | 35.931 | 22.92 |
| 30 | 28.07 | 36.379 | 23.41 |
| 40 | 27.89 | 36.422 | 23.50 |
| 50 | 27.62 | 36.451 | 23.61 |
| 60 | 27.24 | 36.449 | 23.73 |
| 70 | 27.08 | 36.454 | 23.79 |
| 80 | 26.68 | 36.462 | 23.93 |
| 90 | 25.20 | 36.474 | 24.40 |
| 100 | 23.93 | 36.474 | 24.78 |
| 110 | 22.69 | 36.466 | 25.14 |
| 120 | 22.16 | 36.612 | 25.40 |
| 130 | 22.13 | 36.626 | 25.42 |
| 140 | 21.88 | 36.605 | 25.47 |
| 150 | 21.25 | 36.506 | 25.57 |
| 160 | 19.90 | 36.385 | 25.85 |
| 170 | 18.01 | 36.179 | 26.17 |
| 180 | 16.60 | 35.991 | 26.37 |
| 190 | 16.35 | 36.039 | 26.47 |
| 200 | 15.85 | 35.963 | 26.52 |
| 250 | 12.57 | 35.397 | 26.79 |
| 300 | 10.35 | 35.016 | 26.90 |
| 350 | 9.65 | 34.971 | 26.99 |
| 400 | 8.86 | 34.869 | 27.04 |
| 450 | 8.37 | 34.827 | 27.08 |
| 500 | 7.60 | 34.738 | 27.13 |
| 550 | 7.08 | 34.687 | 27.16 |
| 600 | 6.59 | 34.644 | 27.19 |
| 650 | 6.11 | 34.618 | 27.24 |
| 700 | 5.51 | 34.574 | 27.28 |
| 750 | 5.37 | 34.590 | 27.31 |
| 800 | 5.08 | 34.594 | 27.34 |
| 850 | 5.03 | 34.625 | 27.37 |
| 900 | 5.11 | 34.694 | 27.42 |
| 950 | 5.06 | 34.769 | 27.49 |
| 1000 | 5.14 | 34.852 | 27.54 |
| 1152 | 5.11 | 34.957 | 27.63 |

RES-STACS28-87 CTD 51 RESEARCHER
Date 09 21 87 Latitude 7.738 N
Time 0620 Z Longitude 52.618 W



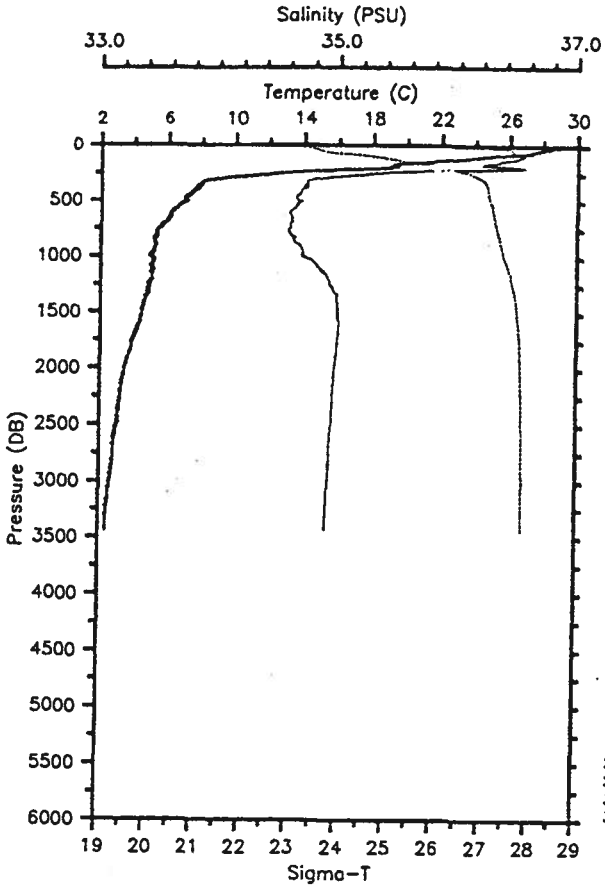

| Prs | Tem | Sal | SigT |
|---|---|---|---|
| 0 | 29.18 | 34.766 | 21.83 |
| 10 | 29.00 | 35.065 | 22.12 |
| 20 | 28.29 | 36.173 | 23.18 |
| 30 | 27.98 | 36.409 | 23.46 |
| 40 | 27.74 | 36.445 | 23.57 |
| 50 | 27.62 | 36.451 | 23.61 |
| 60 | 27.32 | 36.457 | 23.72 |
| 70 | 27.10 | 36.458 | 23.78 |
| 80 | 26.83 | 36.463 | 23.88 |
| 90 | 26.00 | 36.487 | 24.16 |
| 100 | 25.22 | 36.494 | 24.40 |
| 110 | 23.60 | 36.500 | 24.90 |
| 120 | 22.63 | 36.434 | 25.13 |
| 130 | 21.49 | 36.368 | 25.40 |
| 140 | 21.31 | 36.357 | 25.44 |
| 150 | 20.82 | 36.333 | 25.56 |
| 160 | 20.34 | 36.323 | 25.68 |
| 170 | 18.14 | 36.172 | 26.14 |
| 180 | 16.50 | 35.943 | 26.36 |
| 190 | 16.17 | 35.997 | 26.48 |
| 200 | 15.19 | 35.845 | 26.58 |
| 250 | 11.72 | 35.282 | 26.86 |
| 300 | 10.81 | 35.139 | 26.92 |
| 350 | 9.53 | 34.952 | 26.99 |
| 400 | 8.97 | 34.885 | 27.03 |
| 450 | 8.55 | 34.860 | 27.08 |
| 500 | 8.17 | 34.837 | 27.12 |
| 550 | 7.71 | 34.789 | 27.15 |
| 600 | 7.36 | 34.767 | 27.18 |
| 650 | 6.49 | 34.665 | 27.22 |
| 700 | 6.06 | 34.642 | 27.26 |
| 750 | 5.53 | 34.596 | 27.29 |
| 800 | 5.36 | 34.617 | 27.33 |
| 850 | 5.21 | 34.652 | 27.38 |
| 900 | 5.05 | 34.669 | 27.41 |
| 950 | 5.12 | 34.730 | 27.45 |
| 1000 | 5.19 | 34.796 | 27.49 |
| 1500 | 4.27 | 34.998 | 27.76 |
| 1794 | 3.95 | 34.988 | 27.78 |

RES-STACS28-87 CTD 52 RESEARCHER
Date 09 21 87 Latitude 7.972 N
Time 0848 Z Longitude 52.477 W



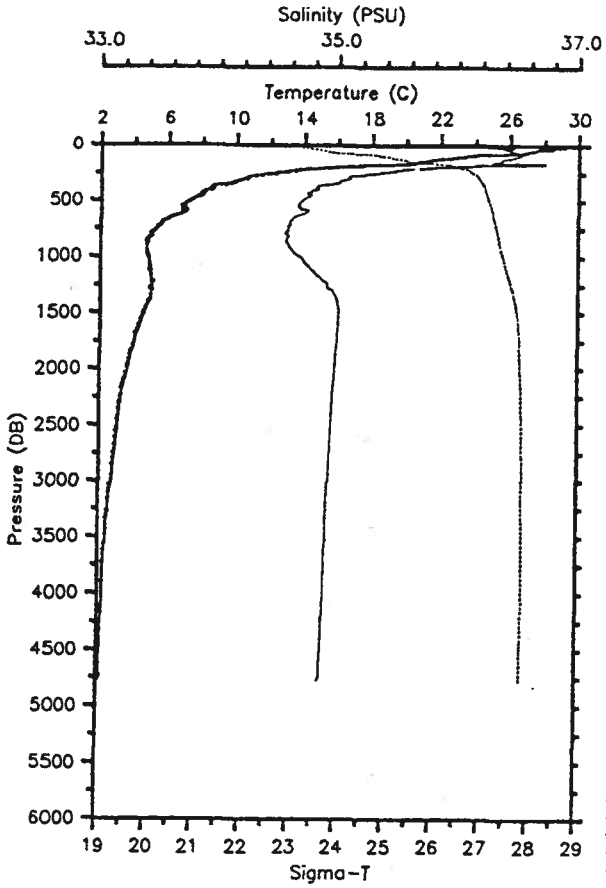

| Prs | Tem | Sal | SigT |
|---|---|---|---|
| 0 | 29.07 | 34.971 | 22.02 |
| 10 | 29.01 | 35.142 | 22.17 |
| 20 | 28.35 | 36.225 | 23.20 |
| 30 | 28.00 | 36.415 | 23.46 |
| 40 | 27.70 | 36.450 | 23.59 |
| 50 | 27.48 | 36.454 | 23.66 |
| 60 | 27.16 | 36.452 | 23.76 |
| 70 | 26.81 | 36.468 | 23.89 |
| 80 | 25.56 | 36.505 | 24.31 |
| 90 | 24.66 | 36.528 | 24.60 |
| 100 | 24.11 | 36.523 | 24.76 |
| 110 | 23.55 | 36.506 | 24.92 |
| 120 | 22.88 | 36.459 | 25.08 |
| 130 | 21.94 | 36.371 | 25.28 |
| 140 | 21.26 | 36.348 | 25.45 |
| 150 | 21.11 | 36.326 | 25.48 |
| 160 | 20.07 | 36.266 | 25.71 |
| 170 | 19.29 | 36.206 | 25.87 |
| 180 | 18.00 | 36.106 | 26.12 |
| 190 | 17.46 | 36.212 | 26.33 |
| 200 | 16.33 | 36.081 | 26.50 |
| 250 | 11.89 | 35.272 | 26.82 |
| 300 | 10.27 | 35.030 | 26.93 |
| 350 | 9.10 | 34.881 | 27.01 |
| 400 | 8.30 | 34.781 | 27.06 |
| 450 | 7.96 | 34.766 | 27.10 |
| 500 | 7.39 | 34.707 | 27.13 |
| 550 | 6.84 | 34.667 | 27.16 |
| 600 | 6.43 | 34.616 | 27.19 |
| 650 | 6.15 | 34.606 | 27.22 |
| 700 | 5.75 | 34.579 | 27.25 |
| 750 | 5.51 | 34.589 | 27.29 |
| 800 | 5.33 | 34.616 | 27.33 |
| 850 | 5.02 | 34.612 | 27.37 |
| 900 | 4.89 | 34.635 | 27.40 |
| 950 | 4.84 | 34.671 | 27.43 |
| 1000 | 4.91 | 34.727 | 27.47 |
| 1500 | 4.44 | 35.003 | 27.74 |
| 2000 | 3.53 | 34.973 | 27.81 |
| 2500 | 2.99 | 34.943 | 27.84 |
| 2646 | 2.89 | 34.937 | 27.84 |

RES-STACS28-87 CTD 53 RESEARCHER
Date 09 21 87 Latitude 8.213 N
Time 1153 Z Longitude 52.315 W



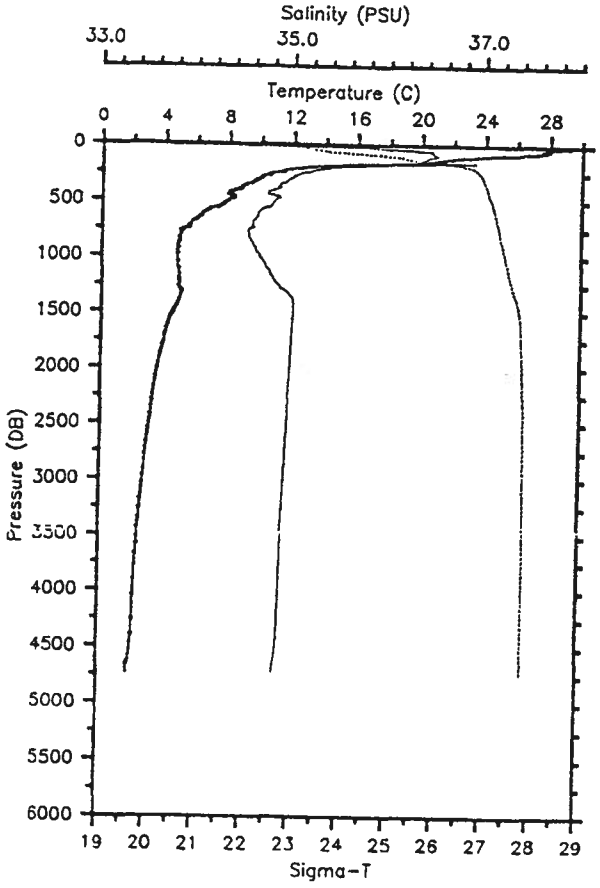

| Prs | Tem | Sal | SigT |
|---|---|---|---|
| 0 | 29.16 | 33.830 | 21.13 |
| 10 | 28.88 | 35.466 | 22.46 |
| 20 | 28.40 | 36.281 | 23.23 |
| 30 | 28.13 | 36.421 | 23.42 |
| 40 | 27.83 | 36.438 | 23.54 |
| 50 | 27.56 | 36.447 | 23.63 |
| 60 | 27.24 | 36.449 | 23.73 |
| 70 | 26.98 | 36.464 | 23.83 |
| 80 | 25.92 | 36.495 | 24.19 |
| 90 | 24.99 | 36.521 | 24.50 |
| 100 | 24.41 | 36.542 | 24.69 |
| 110 | 23.65 | 36.513 | 24.89 |
| 120 | 23.20 | 36.484 | 25.00 |
| 130 | 22.36 | 36.416 | 25.19 |
| 140 | 21.72 | 36.349 | 25.32 |
| 150 | 21.40 | 36.341 | 25.41 |
| 160 | 20.27 | 36.252 | 25.65 |
| 170 | 19.45 | 36.212 | 25.83 |
| 180 | 19.28 | 36.289 | 25.93 |
| 190 | 19.38 | 36.498 | 26.07 |
| 200 | 19.03 | 36.548 | 26.20 |
| 250 | 12.86 | 35.347 | 26.69 |
| 300 | 9.24 | 34.855 | 26.97 |
| 350 | 7.95 | 34.744 | 27.08 |
| 400 | 7.54 | 34.692 | 27.10 |
| 450 | 7.19 | 34.663 | 27.13 |
| 500 | 7.01 | 34.667 | 27.16 |
| 550 | 6.81 | 34.649 | 27.20 |
| 600 | 6.19 | 34.598 | 27.21 |
| 650 | 6.06 | 34.609 | 27.24 |
| 700 | 5.85 | 34.615 | 27.27 |
| 750 | 5.55 | 34.603 | 27.29 |
| 800 | 5.35 | 34.610 | 27.32 |
| 850 | 5.21 | 34.632 | 27.36 |
| 900 | 5.28 | 34.678 | 27.39 |
| 950 | 5.20 | 34.706 | 27.42 |
| 1000 | 5.00 | 34.715 | 27.45 |
| 1500 | 4.49 | 34.990 | 27.73 |
| 2000 | 3.49 | 34.970 | 27.81 |
| 2500 | 3.03 | 34.945 | 27.84 |
| 3000 | 2.64 | 34.921 | 27.85 |
| 3428 | 2.45 | 34.909 | 27.86 |

RES-STACS28-87 CTD 54 RESEARCHER
Date 09 22 87 Latitude 8.545 N
Time 0552 Z Longitude 52.168 W



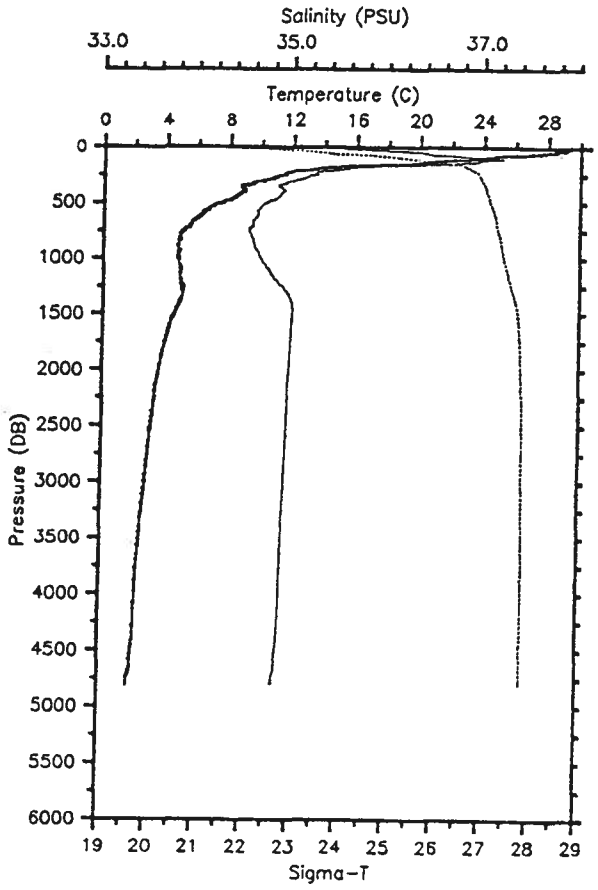

| Prs | Tem | Sal | SigT |
|---|---|---|---|
| 0 | 29.13 | 34.153 | 21.39 |
| 10 | 29.14 | 34.200 | 21.42 |
| 20 | 28.68 | 36.256 | 23.12 |
| 30 | 28.36 | 36.424 | 23.35 |
| 40 | 27.68 | 36.406 | 23.56 |
| 50 | 27.32 | 36.430 | 23.69 |
| 60 | 26.97 | 36.472 | 23.84 |
| 70 | 26.75 | 36.470 | 23.91 |
| 80 | 25.35 | 36.494 | 24.37 |
| 90 | 24.01 | 36.518 | 24.79 |
| 100 | 23.45 | 36.503 | 24.94 |
| 110 | 22.91 | 36.452 | 25.06 |
| 120 | 22.50 | 36.427 | 25.16 |
| 130 | 21.66 | 36.375 | 25.36 |
| 140 | 21.26 | 36.346 | 25.45 |
| 150 | 20.76 | 36.304 | 25.55 |
| 160 | 20.17 | 36.313 | 25.87 |
| 170 | 19.83 | 36.645 | 26.06 |
| 180 | 17.27 | 36.166 | 26.34 |
| 190 | 16.49 | 36.040 | 26.44 |
| 200 | 15.36 | 35.838 | 26.54 |
| 250 | 12.30 | 35.340 | 26.80 |
| 300 | 10.48 | 35.084 | 26.93 |
| 350 | 9.35 | 34.943 | 27.02 |
| 400 | 8.44 | 34.809 | 27.06 |
| 450 | 7.95 | 34.764 | 27.10 |
| 500 | 7.24 | 34.688 | 27.14 |
| 550 | 6.76 | 34.655 | 27.18 |
| 600 | 6.93 | 34.730 | 27.22 |
| 650 | 6.12 | 34.624 | 27.24 |
| 700 | 5.58 | 34.590 | 27.28 |
| 750 | 5.28 | 34.576 | 27.31 |
| 800 | 4.95 | 34.560 | 27.33 |
| 850 | 4.75 | 34.562 | 27.36 |
| 900 | 4.74 | 34.584 | 27.38 |
| 950 | 4.70 | 34.614 | 27.40 |
| 1000 | 4.84 | 34.685 | 27.44 |
| 1500 | 4.55 | 35.005 | 27.73 |
| 2000 | 3.63 | 34.979 | 27.81 |
| 2500 | 3.04 | 34.948 | 27.84 |
| 3000 | 2.73 | 34.927 | 27.85 |
| 3500 | 2.45 | 34.911 | 27.86 |
| 4000 | 2.28 | 34.897 | 27.87 |
| 4500 | 2.19 | 34.880 | 27.86 |
| 4770 | 2.04 | 34.857 | 27.85 |

RES-STACS28-87 CTD 55 RESEARCHER
Date 09 22 87 Latitude 8.782 N
Time 1353 Z Longitude 51.960 W



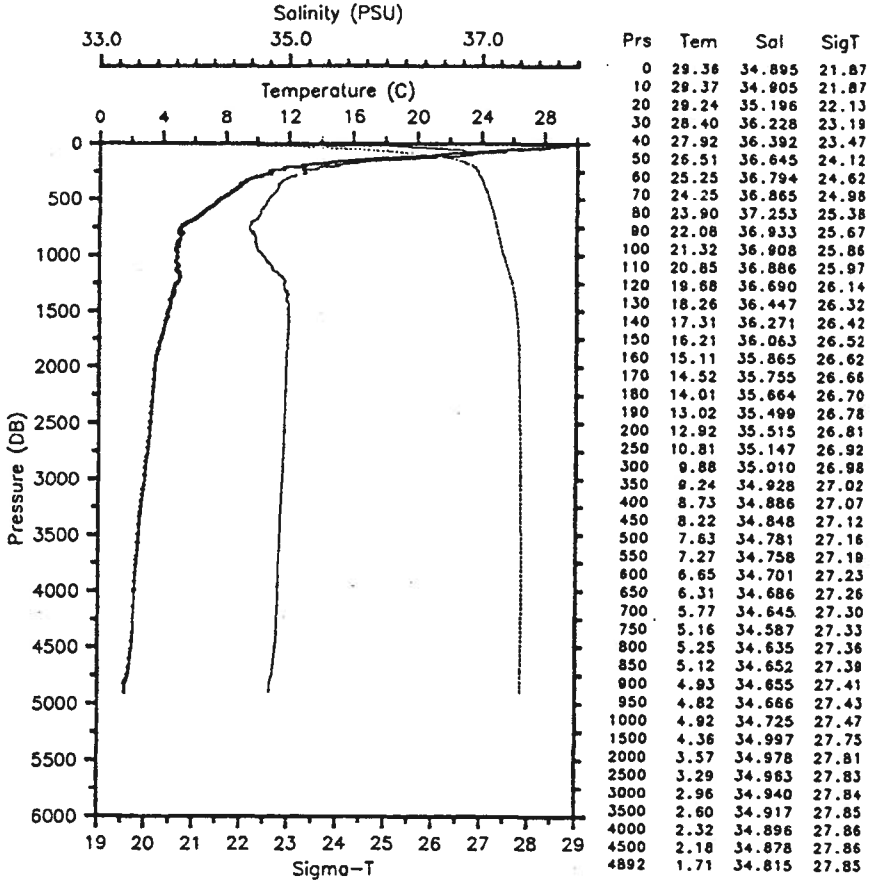

| Prs | Tem | Sal | SigT |
|---|---|---|---|
| 0 | 29.19 | 33.713 | 21.04 |
| 10 | 29.18 | 33.716 | 21.04 |
| 20 | 28.95 | 34.521 | 21.72 |
| 30 | 27.83 | 35.833 | 23.08 |
| 40 | 27.65 | 36.046 | 23.30 |
| 50 | 27.64 | 36.261 | 23.46 |
| 60 | 27.48 | 36.431 | 23.64 |
| 70 | 26.95 | 36.450 | 23.83 |
| 80 | 25.86 | 36.450 | 24.24 |
| 90 | 24.18 | 36.473 | 24.71 |
| 100 | 23.32 | 36.474 | 24.96 |
| 110 | 22.41 | 36.408 | 25.17 |
| 120 | 21.91 | 36.391 | 25.30 |
| 130 | 21.31 | 36.365 | 25.45 |
| 140 | 20.88 | 36.332 | 25.54 |
| 150 | 20.45 | 36.299 | 25.63 |
| 160 | 20.76 | 36.809 | 25.94 |
| 170 | 17.96 | 36.317 | 26.29 |
| 180 | 15.42 | 35.828 | 26.52 |
| 190 | 14.42 | 35.670 | 26.62 |
| 200 | 13.10 | 35.452 | 26.72 |
| 250 | 10.97 | 35.138 | 26.89 |
| 300 | 9.94 | 34.990 | 26.95 |
| 350 | 9.10 | 34.866 | 27.00 |
| 400 | 8.60 | 34.827 | 27.05 |
| 450 | 7.91 | 34.733 | 27.08 |
| 500 | 7.95 | 34.817 | 27.14 |
| 550 | 7.49 | 34.776 | 27.17 |
| 600 | 6.55 | 34.653 | 27.21 |
| 650 | 6.15 | 34.627 | 27.24 |
| 700 | 5.67 | 34.583 | 27.26 |
| 750 | 5.36 | 34.571 | 27.29 |
| 800 | 4.99 | 34.542 | 27.31 |
| 850 | 4.89 | 34.556 | 27.34 |
| 900 | 4.80 | 34.588 | 27.37 |
| 950 | 4.78 | 34.616 | 27.40 |
| 1000 | 4.78 | 34.663 | 27.43 |
| 1500 | 4.53 | 35.005 | 27.73 |
| 2000 | 3.61 | 34.977 | 27.81 |
| 2500 | 3.11 | 34.952 | 27.84 |
| 3000 | 2.77 | 34.929 | 27.85 |
| 3500 | 2.47 | 34.908 | 27.86 |
| 4000 | 2.30 | 34.898 | 27.86 |
| 4500 | 2.16 | 34.874 | 27.86 |
| 4720 | 1.92 | 34.843 | 27.85 |

RES-STACS28-87 CTD 56 RESEARCHER
Date 09 22 87 Latitude 9.098 N
Time 1808 Z Longitude 51.797 W



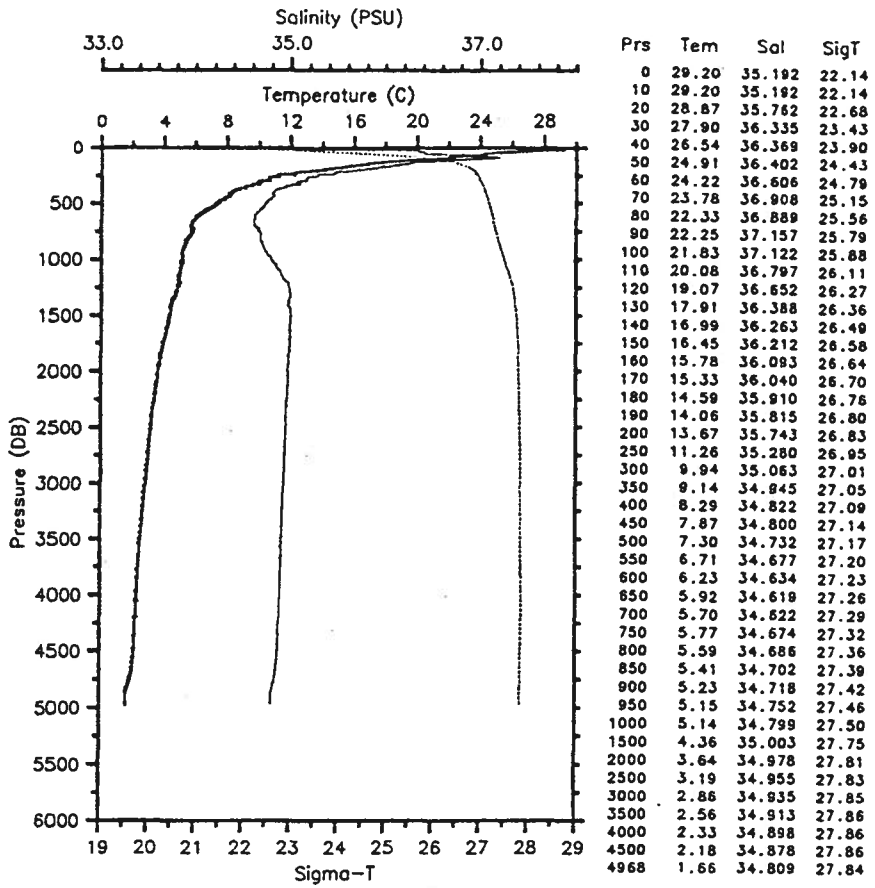

| Prs | Tem | Sal | SigT |
|---|---|---|---|
| 0 | 29.35 | 33.640 | 20.93 |
| 10 | 29.19 | 33.742 | 21.06 |
| 20 | 29.00 | 35.263 | 22.26 |
| 30 | 28.87 | 35.751 | 22.67 |
| 40 | 28.41 | 36.198 | 23.16 |
| 50 | 27.62 | 36.356 | 23.54 |
| 60 | 27.12 | 36.409 | 23.74 |
| 70 | 26.27 | 36.443 | 24.04 |
| 80 | 24.74 | 36.671 | 24.69 |
| 90 | 24.10 | 36.874 | 25.03 |
| 100 | 23.62 | 36.982 | 25.26 |
| 110 | 23.03 | 37.107 | 25.52 |
| 120 | 21.62 | 36.948 | 25.81 |
| 130 | 20.98 | 36.938 | 25.98 |
| 140 | 20.20 | 36.804 | 26.09 |
| 150 | 19.55 | 36.686 | 26.17 |
| 160 | 17.67 | 36.336 | 26.38 |
| 170 | 15.31 | 35.895 | 26.59 |
| 180 | 14.88 | 35.795 | 26.61 |
| 190 | 13.82 | 35.597 | 26.69 |
| 200 | 13.45 | 35.551 | 26.73 |
| 250 | 11.54 | 35.260 | 26.88 |
| 300 | 10.15 | 35.045 | 26.96 |
| 350 | 8.85 | 34.846 | 27.02 |
| 400 | 8.93 | 34.905 | 27.06 |
| 450 | 8.35 | 34.849 | 27.10 |
| 500 | 7.42 | 34.723 | 27.14 |
| 550 | 6.69 | 34.656 | 27.19 |
| 600 | 6.28 | 34.633 | 27.23 |
| 650 | 5.80 | 34.598 | 27.26 |
| 700 | 5.51 | 34.577 | 27.28 |
| 750 | 5.05 | 34.539 | 27.30 |
| 800 | 4.87 | 34.564 | 27.34 |
| 850 | 4.80 | 34.584 | 27.37 |
| 900 | 4.77 | 34.600 | 27.38 |
| 950 | 4.81 | 34.644 | 27.41 |
| 1000 | 4.78 | 34.671 | 27.44 |
| 1500 | 4.54 | 35.005 | 27.73 |
| 2000 | 3.62 | 34.979 | 27.81 |
| 2500 | 3.15 | 34.951 | 27.83 |
| 3000 | 2.84 | 34.935 | 27.85 |
| 3500 | 2.53 | 34.911 | 27.86 |
| 4000 | 2.32 | 34.899 | 27.86 |
| 4500 | 2.14 | 34.874 | 27.86 |
| 4798 | 1.87 | 34.835 | 27.85 |

RES-STACS28-87 CTD 57 RESEARCHER
Date 09 22 87 Latitude 9.562 N
Time 2302 Z Longitude 51.517 W



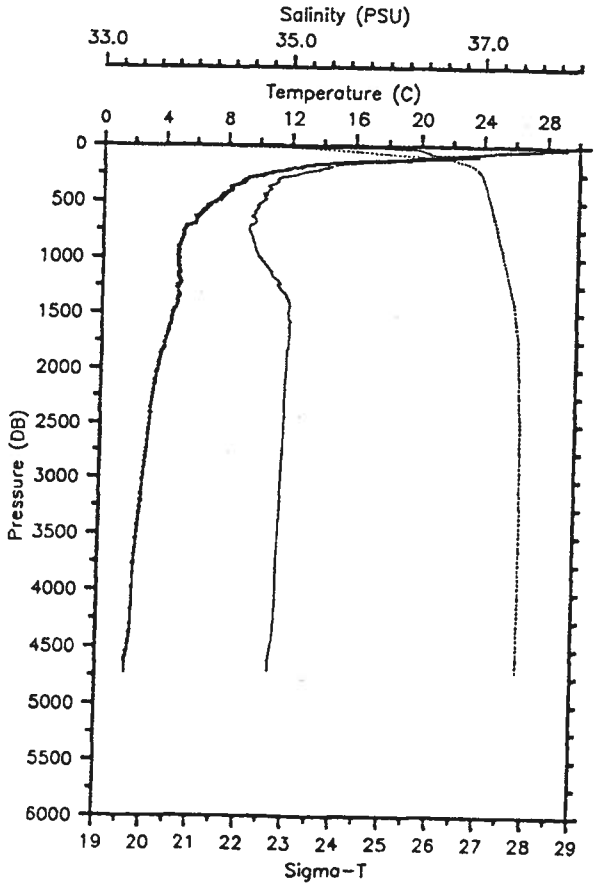

| Prs | Tem | Sal | SigT |
|---|---|---|---|
| 0 | 29.36 | 34.895 | 21.87 |
| 10 | 29.37 | 34.905 | 21.87 |
| 20 | 29.24 | 35.196 | 22.13 |
| 30 | 28.40 | 36.228 | 23.19 |
| 40 | 27.92 | 36.392 | 23.47 |
| 50 | 26.51 | 36.645 | 24.12 |
| 60 | 25.25 | 36.794 | 24.62 |
| 70 | 24.25 | 36.865 | 24.98 |
| 80 | 23.90 | 37.253 | 25.38 |
| 90 | 22.08 | 36.933 | 25.67 |
| 100 | 21.32 | 36.908 | 25.86 |
| 110 | 20.85 | 36.886 | 25.97 |
| 120 | 19.68 | 36.690 | 26.14 |
| 130 | 18.26 | 36.447 | 26.32 |
| 140 | 17.31 | 36.271 | 26.42 |
| 150 | 16.21 | 36.063 | 26.52 |
| 160 | 15.11 | 35.865 | 26.62 |
| 170 | 14.52 | 35.755 | 26.66 |
| 180 | 14.01 | 35.664 | 26.70 |
| 190 | 13.02 | 35.499 | 26.78 |
| 200 | 12.92 | 35.515 | 26.81 |
| 250 | 10.81 | 35.147 | 26.92 |
| 300 | 9.88 | 35.010 | 26.98 |
| 350 | 9.24 | 34.928 | 27.02 |
| 400 | 8.73 | 34.886 | 27.07 |
| 450 | 8.22 | 34.848 | 27.12 |
| 500 | 7.63 | 34.781 | 27.16 |
| 550 | 7.27 | 34.758 | 27.19 |
| 600 | 6.65 | 34.701 | 27.23 |
| 650 | 6.31 | 34.686 | 27.26 |
| 700 | 5.77 | 34.645 | 27.30 |
| 750 | 5.16 | 34.587 | 27.33 |
| 800 | 5.25 | 34.635 | 27.36 |
| 850 | 5.12 | 34.652 | 27.38 |
| 900 | 4.93 | 34.655 | 27.41 |
| 950 | 4.82 | 34.666 | 27.43 |
| 1000 | 4.92 | 34.725 | 27.47 |
| 1500 | 4.36 | 34.997 | 27.75 |
| 2000 | 3.57 | 34.978 | 27.81 |
| 2500 | 3.29 | 34.963 | 27.83 |
| 3000 | 2.96 | 34.940 | 27.84 |
| 3500 | 2.60 | 34.917 | 27.85 |
| 4000 | 2.32 | 34.896 | 27.86 |
| 4500 | 2.18 | 34.878 | 27.86 |
| 4892 | 1.71 | 34.815 | 27.85 |

RES-STACS28-87 CTD 58 RESEARCHER
Date 09 23 87 Latitude 10.000 N
Time 0341 Z Longitude 51.248 W



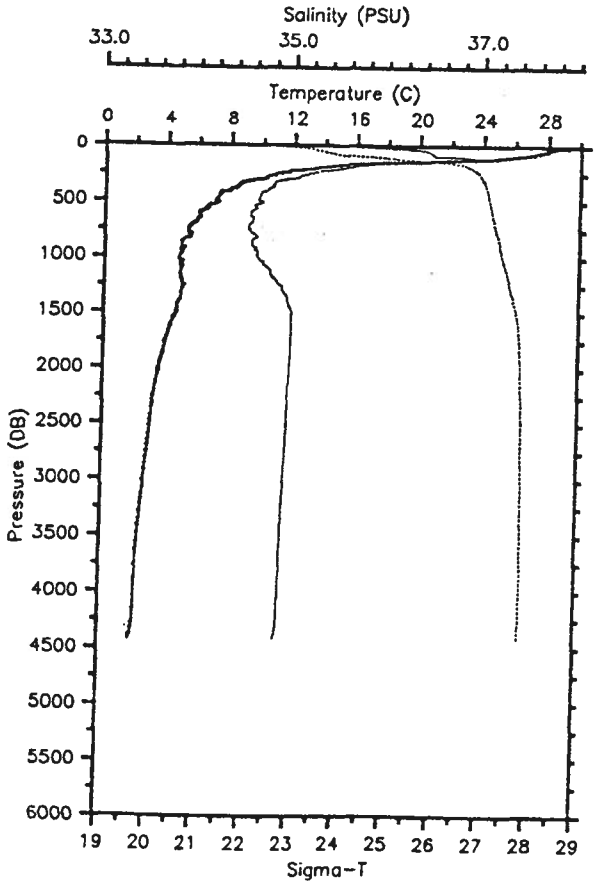

| Prs | Tem | Sal | SigT |
|---|---|---|---|
| 0 | 29.20 | 35.192 | 22.14 |
| 10 | 29.20 | 35.192 | 22.14 |
| 20 | 28.87 | 35.762 | 22.68 |
| 30 | 27.90 | 36.335 | 23.43 |
| 40 | 26.54 | 36.369 | 23.90 |
| 50 | 24.91 | 36.402 | 24.43 |
| 60 | 24.22 | 36.606 | 24.79 |
| 70 | 23.78 | 36.908 | 25.15 |
| 80 | 22.33 | 36.889 | 25.56 |
| 90 | 22.25 | 37.157 | 25.79 |
| 100 | 21.83 | 37.122 | 25.88 |
| 110 | 20.08 | 36.797 | 26.11 |
| 120 | 19.07 | 36.652 | 26.27 |
| 130 | 17.91 | 36.388 | 26.36 |
| 140 | 16.99 | 36.263 | 26.49 |
| 150 | 16.45 | 36.212 | 26.58 |
| 160 | 15.78 | 36.083 | 26.64 |
| 170 | 15.33 | 36.040 | 26.70 |
| 180 | 14.59 | 35.910 | 26.76 |
| 190 | 14.06 | 35.815 | 26.80 |
| 200 | 13.67 | 35.743 | 26.83 |
| 250 | 11.26 | 35.280 | 26.95 |
| 300 | 9.94 | 35.063 | 27.01 |
| 350 | 9.14 | 34.845 | 27.05 |
| 400 | 8.29 | 34.822 | 27.09 |
| 450 | 7.87 | 34.800 | 27.14 |
| 500 | 7.30 | 34.732 | 27.17 |
| 550 | 6.71 | 34.677 | 27.20 |
| 600 | 6.23 | 34.634 | 27.23 |
| 650 | 5.92 | 34.619 | 27.26 |
| 700 | 5.70 | 34.622 | 27.29 |
| 750 | 5.77 | 34.674 | 27.32 |
| 800 | 5.59 | 34.686 | 27.36 |
| 850 | 5.41 | 34.702 | 27.39 |
| 900 | 5.23 | 34.718 | 27.42 |
| 950 | 5.15 | 34.752 | 27.46 |
| 1000 | 5.14 | 34.799 | 27.50 |
| 1500 | 4.36 | 35.003 | 27.75 |
| 2000 | 3.64 | 34.978 | 27.81 |
| 2500 | 3.19 | 34.955 | 27.83 |
| 3000 | 2.86 | 34.935 | 27.85 |
| 3500 | 2.56 | 34.913 | 27.86 |
| 4000 | 2.33 | 34.898 | 27.86 |
| 4500 | 2.18 | 34.878 | 27.86 |
| 4968 | 1.66 | 34.809 | 27.84 |

RES-STACS28-87 CTD 59 RESEARCHER
Date 09 23 87 Latitude 9.065 N
Time 1248 Z Longitude 50.192 W



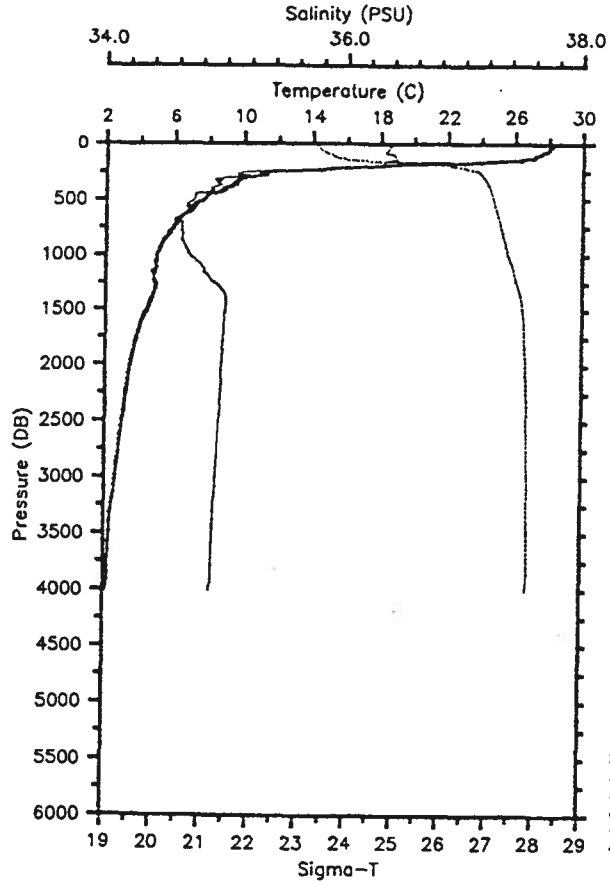

| Prs | Tem | Sal | SigT |
|---|---|---|---|
| 0 | 29.15 | 34.769 | 21.84 |
| 10 | 29.15 | 34.769 | 21.84 |
| 20 | 29.17 | 34.953 | 21.87 |
| 30 | 27.85 | 36.234 | 23.37 |
| 40 | 26.95 | 36.351 | 23.75 |
| 50 | 25.56 | 36.381 | 24.21 |
| 60 | 24.47 | 36.379 | 24.55 |
| 70 | 23.52 | 36.453 | 24.89 |
| 80 | 22.57 | 36.569 | 25.25 |
| 90 | 21.73 | 36.883 | 25.73 |
| 100 | 21.17 | 36.930 | 25.92 |
| 110 | 19.75 | 36.679 | 26.11 |
| 120 | 19.00 | 36.569 | 26.22 |
| 130 | 17.45 | 36.309 | 26.41 |
| 140 | 16.29 | 36.078 | 26.51 |
| 150 | 15.23 | 35.845 | 26.57 |
| 160 | 14.20 | 35.666 | 26.66 |
| 170 | 13.42 | 35.539 | 26.72 |
| 180 | 12.83 | 35.455 | 26.78 |
| 190 | 12.57 | 35.405 | 26.79 |
| 200 | 12.09 | 35.318 | 26.82 |
| 250 | 10.38 | 35.073 | 26.94 |
| 300 | 9.06 | 34.849 | 26.99 |
| 350 | 8.62 | 34.819 | 27.04 |
| 400 | 8.22 | 34.783 | 27.07 |
| 450 | 7.75 | 34.738 | 27.10 |
| 500 | 7.26 | 34.704 | 27.15 |
| 550 | 6.77 | 34.660 | 27.18 |
| 600 | 6.30 | 34.614 | 27.21 |
| 650 | 5.99 | 34.613 | 27.25 |
| 700 | 5.96 | 34.638 | 27.27 |
| 750 | 5.24 | 34.565 | 27.30 |
| 800 | 5.20 | 34.588 | 27.33 |
| 850 | 5.12 | 34.608 | 27.35 |
| 900 | 4.97 | 34.622 | 27.38 |
| 950 | 4.86 | 34.635 | 27.40 |
| 1000 | 4.82 | 34.662 | 27.43 |
| 1500 | 4.57 | 34.985 | 27.71 |
| 2000 | 3.87 | 34.975 | 27.80 |
| 2500 | 3.16 | 34.952 | 27.83 |
| 3000 | 2.80 | 34.931 | 27.85 |
| 3500 | 2.49 | 34.911 | 27.86 |
| 4000 | 2.28 | 34.898 | 27.87 |
| 4500 | 2.05 | 34.862 | 27.86 |
| 4708 | 1.86 | 34.836 | 27.85 |

RES-STACS28-87 CTD 60 RESEARCHER
Date 09 23 87 Latitude 7.835 N
Time 2142 Z Longitude 49.222 W



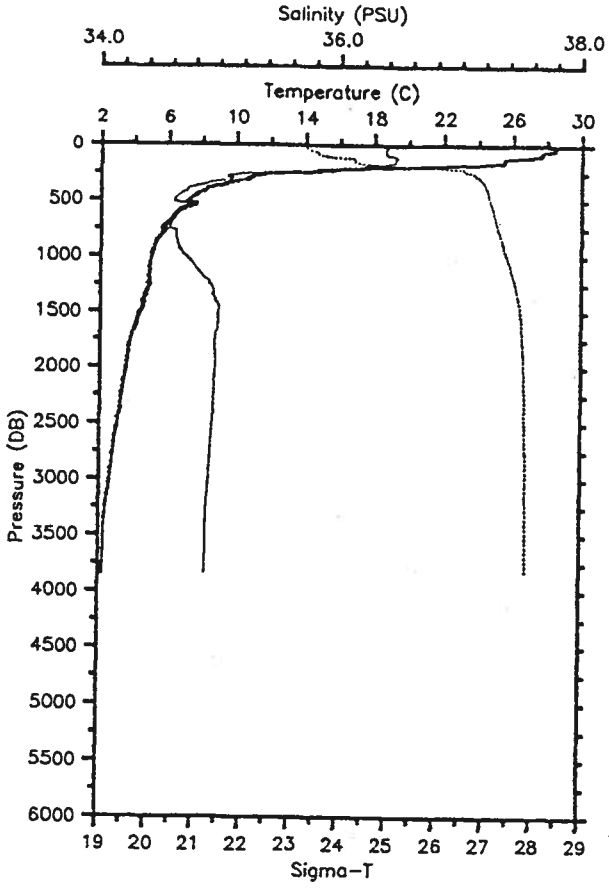

| Prs | Tem | Sal | SigT |
|---|---|---|---|
| 0 | 29.21 | 35.206 | 22.15 |
| 10 | 29.20 | 35.210 | 22.16 |
| 20 | 28.39 | 35.891 | 22.94 |
| 30 | 28.05 | 36.147 | 23.24 |
| 40 | 27.95 | 36.387 | 23.46 |
| 50 | 27.66 | 36.420 | 23.58 |
| 60 | 27.42 | 36.421 | 23.65 |
| 70 | 26.98 | 36.444 | 23.81 |
| 80 | 26.65 | 36.455 | 23.93 |
| 90 | 26.10 | 36.484 | 24.12 |
| 100 | 25.13 | 36.842 | 24.70 |
| 110 | 24.71 | 37.045 | 24.98 |
| 120 | 23.49 | 37.066 | 25.36 |
| 130 | 21.32 | 36.691 | 25.70 |
| 140 | 19.57 | 36.494 | 26.02 |
| 150 | 17.47 | 36.150 | 26.29 |
| 160 | 16.23 | 35.983 | 26.45 |
| 170 | 15.01 | 35.789 | 26.58 |
| 180 | 14.38 | 35.684 | 26.64 |
| 190 | 13.92 | 35.621 | 26.69 |
| 200 | 13.38 | 35.541 | 26.74 |
| 250 | 11.13 | 35.187 | 26.91 |
| 300 | 9.97 | 35.006 | 26.96 |
| 350 | 8.47 | 34.776 | 27.03 |
| 400 | 7.91 | 34.722 | 27.07 |
| 450 | 7.25 | 34.635 | 27.10 |
| 500 | 7.08 | 34.630 | 27.12 |
| 550 | 6.53 | 34.582 | 27.15 |
| 600 | 6.04 | 34.536 | 27.18 |
| 650 | 6.01 | 34.567 | 27.21 |
| 700 | 5.66 | 34.536 | 27.23 |
| 750 | 5.38 | 34.529 | 27.26 |
| 800 | 5.51 | 34.595 | 27.28 |
| 850 | 4.93 | 34.548 | 27.33 |
| 900 | 4.87 | 34.557 | 27.34 |
| 950 | 4.96 | 34.609 | 27.37 |
| 1000 | 4.78 | 34.610 | 27.39 |
| 1500 | 4.64 | 34.995 | 27.71 |
| 2000 | 3.56 | 34.970 | 27.81 |
| 2500 | 3.04 | 34.946 | 27.84 |
| 3000 | 2.71 | 34.924 | 27.85 |
| 3500 | 2.40 | 34.905 | 27.86 |
| 4000 | 2.25 | 34.892 | 27.86 |
| 4410 | 1.99 | 34.854 | 27.86 |

RES-STACS28-87 CTD 61 RESEARCHER
Date 09 24 87 Latitude 6.618 N
Time 0659 Z Longitude 48.287 W



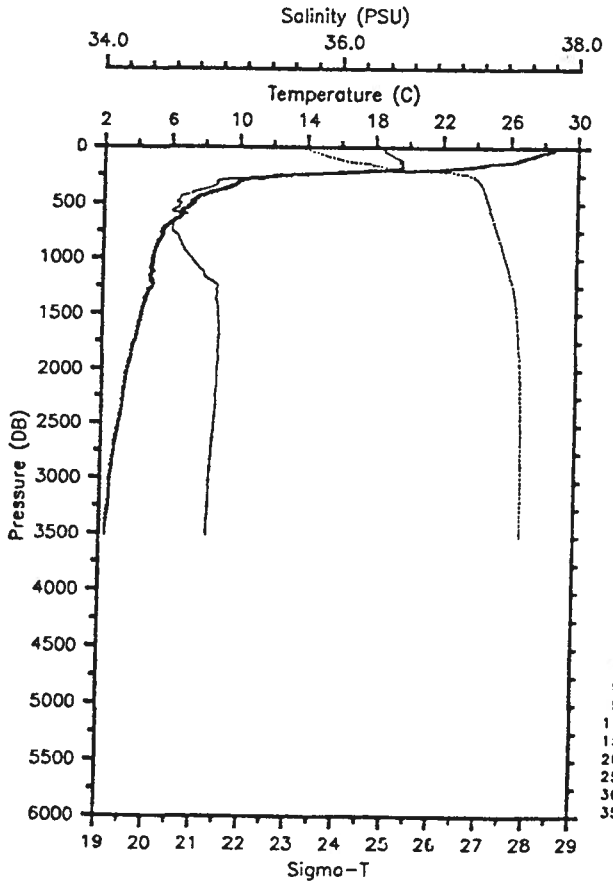

| Prs | Tem | Sal | SigT |
|---|---|---|---|
| 0 | 28.22 | 36.374 | 23.36 |
| 10 | 28.21 | 36.374 | 23.36 |
| 20 | 28.21 | 36.375 | 23.36 |
| 30 | 28.06 | 36.357 | 23.40 |
| 40 | 27.97 | 36.350 | 23.42 |
| 50 | 27.93 | 36.347 | 23.43 |
| 60 | 27.85 | 36.343 | 23.46 |
| 70 | 27.75 | 36.336 | 23.48 |
| 80 | 27.51 | 36.325 | 23.55 |
| 90 | 27.49 | 36.344 | 23.57 |
| 100 | 27.29 | 36.394 | 23.68 |
| 110 | 27.18 | 36.402 | 23.72 |
| 120 | 27.10 | 36.405 | 23.75 |
| 130 | 26.83 | 36.413 | 23.84 |
| 140 | 26.43 | 36.425 | 23.97 |
| 150 | 25.80 | 36.349 | 24.12 |
| 160 | 24.34 | 36.454 | 24.64 |
| 170 | 23.11 | 36.823 | 25.29 |
| 180 | 20.88 | 36.552 | 25.71 |
| 190 | 18.88 | 36.284 | 26.03 |
| 200 | 17.83 | 36.203 | 26.24 |
| 250 | 11.71 | 35.208 | 26.81 |
| 300 | 10.50 | 35.058 | 26.91 |
| 350 | 9.55 | 34.932 | 26.98 |
| 400 | 8.83 | 34.865 | 27.04 |
| 450 | 8.02 | 34.760 | 27.08 |
| 500 | 7.68 | 34.729 | 27.11 |
| 550 | 7.19 | 34.686 | 27.14 |
| 600 | 6.99 | 34.687 | 27.17 |
| 650 | 6.42 | 34.629 | 27.21 |
| 700 | 6.12 | 34.624 | 27.24 |
| 750 | 5.89 | 34.627 | 27.27 |
| 800 | 5.69 | 34.641 | 27.31 |
| 850 | 5.41 | 34.628 | 27.33 |
| 900 | 5.24 | 34.648 | 27.37 |
| 950 | 5.11 | 34.672 | 27.40 |
| 1000 | 5.01 | 34.704 | 27.44 |
| 1500 | 4.38 | 34.987 | 27.74 |
| 2000 | 3.47 | 34.964 | 27.81 |
| 2500 | 3.04 | 34.946 | 27.84 |
| 3000 | 2.66 | 34.923 | 27.85 |
| 3500 | 2.33 | 34.902 | 27.87 |
| 4000 | 2.17 | 34.884 | 27.87 |
| 4006 | 2.15 | 34.882 | 27.86 |

RES-STACS28-87 CTD 62 RESEARCHER
Date 09 24 87 Latitude 6.185 N
Time 1130 Z Longitude 48.527 W



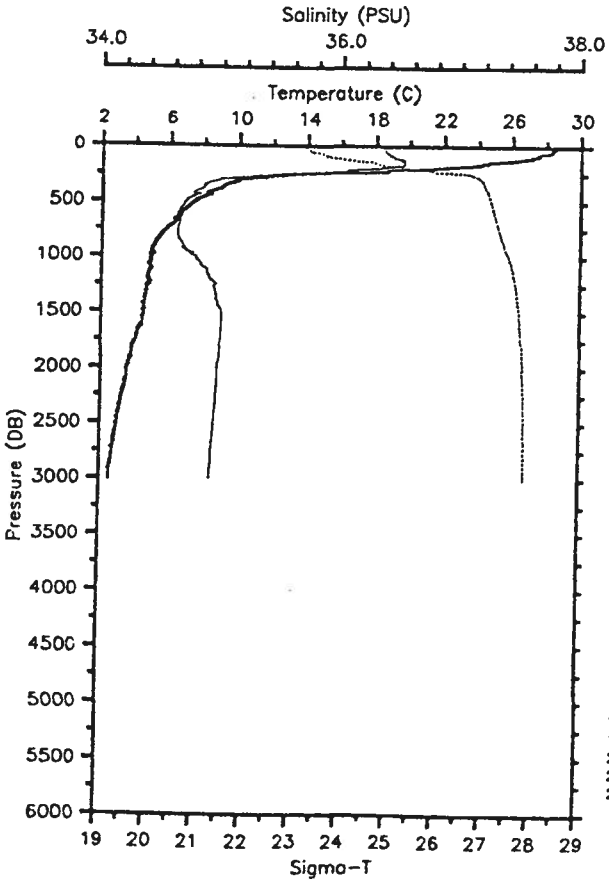

| Prs | Tem | Sal | SigT |
|---|---|---|---|
| 0 | 28.44 | 36.389 | 23.29 |
| 10 | 28.45 | 36.385 | 23.29 |
| 20 | 28.46 | 36.386 | 23.29 |
| 30 | 28.46 | 36.384 | 23.29 |
| 40 | 28.31 | 36.373 | 23.33 |
| 50 | 28.11 | 36.368 | 23.39 |
| 60 | 27.81 | 36.378 | 23.50 |
| 70 | 27.70 | 36.378 | 23.53 |
| 80 | 27.67 | 36.377 | 23.54 |
| 90 | 27.59 | 36.384 | 23.58 |
| 100 | 27.18 | 36.459 | 23.76 |
| 110 | 26.80 | 36.475 | 23.90 |
| 120 | 25.58 | 36.466 | 24.27 |
| 130 | 25.48 | 36.453 | 24.30 |
| 140 | 25.48 | 36.453 | 24.29 |
| 150 | 25.47 | 36.452 | 24.30 |
| 160 | 25.29 | 36.434 | 24.34 |
| 170 | 24.15 | 36.381 | 24.64 |
| 180 | 22.49 | 36.239 | 25.02 |
| 190 | 20.87 | 36.615 | 25.76 |
| 200 | 18.62 | 36.289 | 26.10 |
| 250 | 12.61 | 35.343 | 26.74 |
| 300 | 10.74 | 35.106 | 26.91 |
| 350 | 9.38 | 34.902 | 26.98 |
| 400 | 8.24 | 34.735 | 27.03 |
| 450 | 7.68 | 34.671 | 27.06 |
| 500 | 7.20 | 34.622 | 27.09 |
| 550 | 7.47 | 34.731 | 27.14 |
| 600 | 6.64 | 34.636 | 27.18 |
| 650 | 6.31 | 34.615 | 27.21 |
| 700 | 5.97 | 34.597 | 27.24 |
| 750 | 5.64 | 34.577 | 27.26 |
| 800 | 5.63 | 34.630 | 27.31 |
| 850 | 5.33 | 34.637 | 27.35 |
| 900 | 5.20 | 34.654 | 27.38 |
| 950 | 5.13 | 34.683 | 27.41 |
| 1000 | 5.05 | 34.725 | 27.45 |
| 1500 | 4.37 | 34.991 | 27.74 |
| 2000 | 3.58 | 34.976 | 27.81 |
| 2500 | 3.10 | 34.951 | 27.84 |
| 3000 | 2.63 | 34.921 | 27.86 |
| 3500 | 2.30 | 34.900 | 27.87 |
| 3836 | 2.23 | 34.892 | 27.87 |

RES-STACS28-87 CTD 63 RESEARCHER
Date 09 24 87 Latitude 5.738 N
Time 1554 Z Longitude 48.775 W



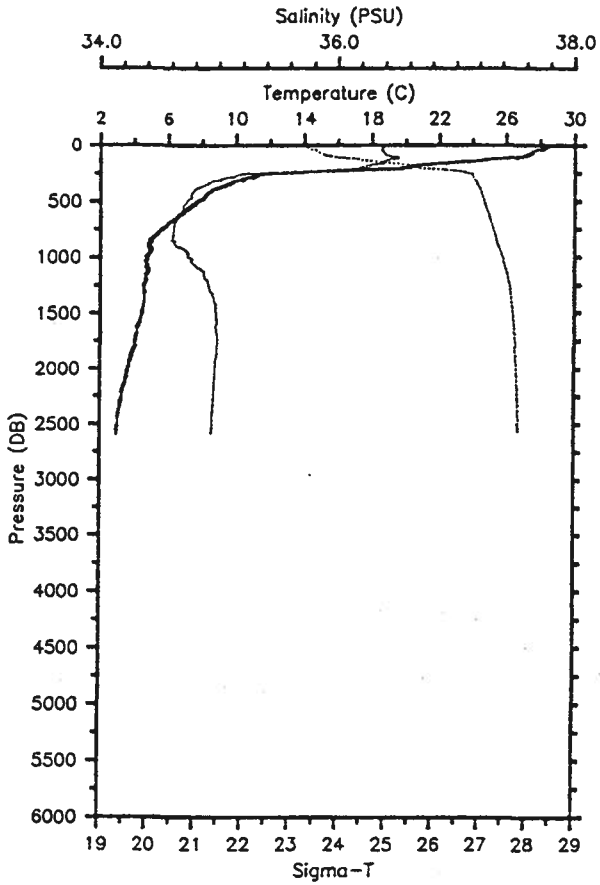

| Prs | Tem | Sal | SigT |
|---|---|---|---|
| 0 | 28.59 | 36.296 | 23.18 |
| 10 | 28.57 | 36.315 | 23.20 |
| 20 | 28.53 | 36.360 | 23.24 |
| 30 | 28.35 | 36.355 | 23.30 |
| 40 | 28.16 | 36.354 | 23.36 |
| 50 | 27.81 | 36.383 | 23.50 |
| 60 | 27.69 | 36.394 | 23.55 |
| 70 | 27.42 | 36.425 | 23.66 |
| 80 | 27.25 | 36.428 | 23.72 |
| 90 | 27.01 | 36.438 | 23.80 |
| 100 | 26.81 | 36.473 | 23.89 |
| 110 | 26.56 | 36.480 | 23.98 |
| 120 | 26.35 | 36.517 | 24.07 |
| 130 | 25.89 | 36.492 | 24.20 |
| 140 | 25.38 | 36.502 | 24.36 |
| 150 | 24.55 | 36.514 | 24.63 |
| 160 | 24.33 | 36.499 | 24.68 |
| 170 | 23.85 | 36.526 | 24.84 |
| 180 | 23.17 | 36.485 | 25.01 |
| 190 | 22.42 | 36.432 | 25.18 |
| 200 | 21.17 | 36.262 | 25.41 |
| 250 | 13.02 | 35.417 | 26.71 |
| 300 | 10.10 | 34.961 | 26.90 |
| 350 | 9.49 | 34.916 | 26.97 |
| 400 | 8.43 | 34.757 | 27.02 |
| 450 | 7.57 | 34.646 | 27.06 |
| 500 | 7.37 | 34.661 | 27.10 |
| 550 | 6.88 | 34.615 | 27.13 |
| 600 | 6.72 | 34.637 | 27.17 |
| 650 | 6.24 | 34.607 | 27.21 |
| 700 | 5.79 | 34.584 | 27.25 |
| 750 | 5.49 | 34.581 | 27.29 |
| 800 | 5.51 | 34.633 | 27.32 |
| 850 | 5.29 | 34.651 | 27.36 |
| 900 | 5.16 | 34.674 | 27.40 |
| 950 | 5.04 | 34.703 | 27.44 |
| 1000 | 4.99 | 34.744 | 27.47 |
| 1500 | 4.33 | 34.977 | 27.73 |
| 2000 | 3.51 | 34.968 | 27.81 |
| 2500 | 3.03 | 34.948 | 27.84 |
| 3000 | 2.58 | 34.920 | 27.86 |
| 3500 | 2.37 | 34.905 | 27.87 |

RES-STACS28-87 CTD 64 RESEARCHER
Date 09 24 87 Latitude 5.305 N
Time 2026 Z Longitude 49.018 W



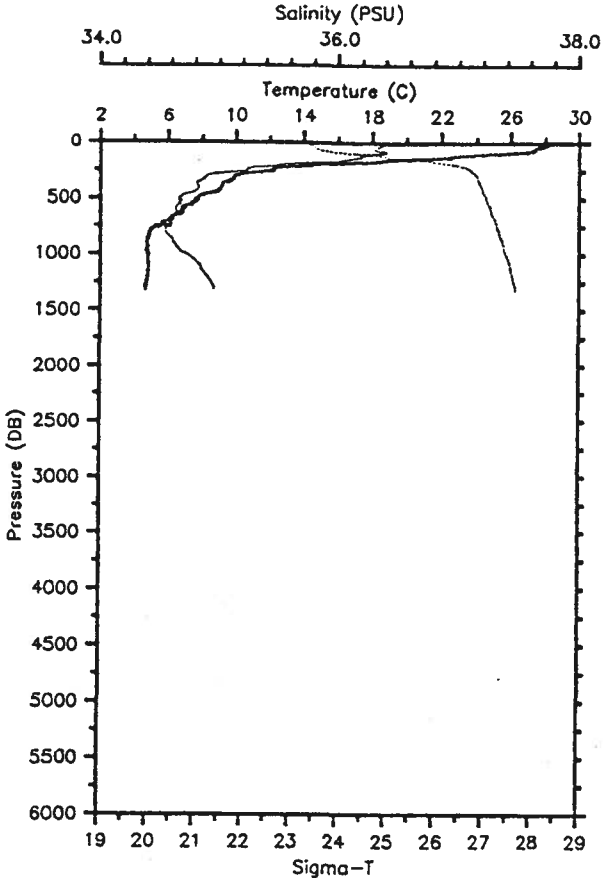

| Prs | Tem | Sal | SigT |
|---|---|---|---|
| 0 | 28.75 | 36.354 | 23.17 |
| 10 | 28.49 | 36.350 | 23.25 |
| 20 | 28.43 | 36.350 | 23.27 |
| 30 | 28.39 | 36.350 | 23.28 |
| 40 | 28.33 | 36.355 | 23.31 |
| 50 | 28.24 | 36.358 | 23.34 |
| 60 | 27.97 | 36.364 | 23.43 |
| 70 | 27.59 | 36.390 | 23.58 |
| 80 | 27.50 | 36.397 | 23.61 |
| 90 | 27.31 | 36.412 | 23.68 |
| 100 | 27.13 | 36.435 | 23.76 |
| 110 | 26.76 | 36.464 | 23.90 |
| 120 | 26.27 | 36.518 | 24.09 |
| 130 | 25.55 | 36.487 | 24.30 |
| 140 | 24.61 | 36.525 | 24.61 |
| 150 | 24.34 | 36.511 | 24.69 |
| 160 | 24.03 | 36.506 | 24.78 |
| 170 | 23.63 | 36.520 | 24.90 |
| 180 | 22.35 | 36.427 | 25.20 |
| 190 | 21.62 | 36.342 | 25.35 |
| 200 | 21.03 | 36.283 | 25.46 |
| 250 | 13.75 | 35.563 | 26.68 |
| 300 | 10.18 | 34.999 | 26.92 |
| 350 | 9.21 | 34.860 | 26.98 |
| 400 | 8.60 | 34.813 | 27.04 |
| 450 | 8.11 | 34.778 | 27.08 |
| 500 | 7.44 | 34.698 | 27.12 |
| 550 | 7.04 | 34.667 | 27.15 |
| 600 | 6.67 | 34.642 | 27.18 |
| 650 | 6.43 | 34.646 | 27.22 |
| 700 | 6.20 | 34.648 | 27.25 |
| 750 | 5.81 | 34.632 | 27.29 |
| 800 | 5.55 | 34.633 | 27.32 |
| 850 | 5.31 | 34.649 | 27.36 |
| 900 | 5.14 | 34.680 | 27.41 |
| 950 | 4.94 | 34.707 | 27.45 |
| 1000 | 4.99 | 34.789 | 27.51 |
| 1500 | 4.52 | 35.004 | 27.73 |
| 2000 | 3.56 | 34.968 | 27.81 |
| 2500 | 3.01 | 34.946 | 27.84 |
| 2998 | 2.59 | 34.920 | 27.86 |

RES-STACS28-87 CTD 65 RESEARCHER
Date 09 25 87 Latitude 4.870 N
Time 0055 Z Longitude 49.272 W




| Prs | Tem | Sal | SigT |
|---|---|---|---|
| 0 | 28.40 | 36.373 | 23.30 |
| 10 | 28.39 | 36.368 | 23.30 |
| 20 | 28.29 | 36.382 | 23.34 |
| 30 | 28.17 | 36.373 | 23.37 |
| 40 | 28.05 | 36.359 | 23.40 |
| 50 | 27.64 | 36.361 | 23.54 |
| 60 | 27.56 | 36.389 | 23.59 |
| 70 | 27.46 | 36.392 | 23.62 |
| 80 | 27.30 | 36.394 | 23.67 |
| 90 | 27.20 | 36.402 | 23.71 |
| 100 | 26.97 | 36.434 | 23.81 |
| 110 | 26.84 | 36.490 | 23.98 |
| 120 | 25.64 | 36.480 | 24.27 |
| 130 | 24.82 | 36.438 | 24.48 |
| 140 | 24.32 | 36.406 | 24.61 |
| 150 | 23.28 | 36.369 | 24.89 |
| 160 | 22.57 | 36.379 | 25.10 |
| 170 | 21.49 | 36.330 | 25.37 |
| 180 | 20.73 | 36.270 | 25.54 |
| 190 | 20.29 | 36.202 | 25.60 |
| 200 | 19.84 | 36.177 | 25.70 |
| 250 | 12.67 | 35.366 | 26.74 |
| 300 | 10.41 | 35.016 | 26.89 |
| 350 | 9.43 | 34.891 | 26.96 |
| 400 | 8.53 | 34.790 | 27.03 |
| 450 | 8.17 | 34.766 | 27.06 |
| 500 | 7.71 | 34.728 | 27.10 |
| 550 | 7.25 | 34.693 | 27.14 |
| 600 | 6.89 | 34.682 | 27.18 |
| 650 | 6.46 | 34.660 | 27.22 |
| 700 | 6.01 | 34.630 | 27.26 |
| 750 | 5.65 | 34.622 | 27.30 |
| 800 | 5.30 | 34.614 | 27.33 |
| 850 | 4.88 | 34.595 | 27.37 |
| 900 | 4.84 | 34.639 | 27.41 |
| 950 | 4.94 | 34.721 | 27.46 |
| 1000 | 4.74 | 34.740 | 27.50 |
| 1500 | 4.47 | 34.980 | 27.72 |
| 2000 | 3.87 | 34.975 | 27.80 |
| 2500 | 3.06 | 34.950 | 27.84 |
| 2582 | 2.99 | 34.946 | 27.84 |

RES-STACS28-87 CTD 66 RESEARCHER
Date 09 25 87 Latitude 4.425 N
Time 0449 Z Longitude 49.498 W




| Prs | Tem | Sal | SigT |
|---|---|---|---|
| 0 | 28.19 | 36.376 | 23.37 |
| 10 | 28.19 | 36.375 | 23.37 |
| 20 | 28.09 | 36.368 | 23.40 |
| 30 | 27.90 | 36.356 | 23.45 |
| 40 | 27.67 | 36.325 | 23.50 |
| 50 | 27.48 | 36.301 | 23.54 |
| 60 | 27.41 | 36.299 | 23.57 |
| 70 | 27.30 | 36.314 | 23.61 |
| 80 | 26.94 | 36.385 | 23.79 |
| 90 | 25.94 | 36.385 | 24.10 |
| 100 | 24.39 | 36.273 | 24.49 |
| 110 | 23.33 | 36.212 | 24.76 |
| 120 | 22.56 | 36.183 | 24.96 |
| 130 | 22.43 | 36.182 | 25.00 |
| 140 | 21.17 | 36.122 | 25.30 |
| 150 | 19.68 | 36.078 | 25.67 |
| 160 | 18.64 | 36.016 | 25.89 |
| 170 | 18.07 | 35.946 | 25.98 |
| 180 | 16.60 | 35.733 | 26.17 |
| 190 | 15.38 | 35.585 | 26.34 |
| 200 | 14.37 | 35.482 | 26.48 |
| 250 | 12.10 | 35.238 | 26.75 |
| 300 | 9.93 | 34.886 | 26.88 |
| 350 | 9.57 | 34.844 | 26.90 |
| 400 | 9.12 | 34.827 | 26.96 |
| 450 | 8.70 | 34.788 | 27.00 |
| 500 | 7.67 | 34.666 | 27.06 |
| 550 | 7.39 | 34.679 | 27.11 |
| 600 | 6.83 | 34.637 | 27.16 |
| 650 | 6.52 | 34.633 | 27.20 |
| 700 | 6.01 | 34.613 | 27.25 |
| 750 | 5.29 | 34.548 | 27.28 |
| 800 | 4.97 | 34.552 | 27.32 |
| 850 | 4.85 | 34.588 | 27.37 |
| 900 | 4.76 | 34.615 | 27.40 |
| 950 | 4.76 | 34.655 | 27.43 |
| 1000 | 4.79 | 34.722 | 27.48 |
| 1316 | 4.69 | 34.956 | 27.68 |

## 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 RESEARCHER RES-STACS27-87

| XBT NO. | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|---|---|---|---|---|---|---|---|
| YEAR | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 |
| MONTH | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| DAY (GMT) | 11 | 12 | 12 | 13 | 13 | 14 | 15 |
| TIME (GMT) | 1918 | 0706 | 1919 | 0736 | 2025 | 3214 | 0018 |
| LAT (N) | 26.11 | 25.54 | 24.08 | 22.51 | 22.83 | 23.58 | 24.52 |
| LON (W) | 79.26 | 76.42 | 75.38 | 72.93 | 72.61 | 72.29 | 72.24 |
| SURF T (C) | 25.0 | 23.9 | 24.7 | 24.8 | 24.8 | 24.8 | 23.8 |
| 28 | | | | | | | |
| 27 | | | | | | | |
| 26 | | | | | | | |
| 25 | 6 | | | | | | |
| 24 | 105 | | 131 | 100 | 63 | 88 | |
| 23 | 123 | 122 | 165 | 118 | 93 | 116 | 98 |
| 22 | 143 | 151 | 180 | 158 | 117 | 147 | 122 |
| 21 | 162 | 171 | 203 | 175 | 136 | 176 | 143 |
| 20 | 181 | 214 | 223 | 202 | 168 | 194 | 166 |
| 19 | 217 | 249 | 270 | 260 | 209 | 228 | 209 |
| 18 | 316 | 329 | 339 | 335 | 295 | 307 | 305 |
| 17 | 368 | 411 | 415 | 395 | 371 | 387 | 400 |
| 16 | | | | 441 | 451 | 439 | |
| 15 | | | | | | | |
| 14 | | | | | | | |
| 13 | | | | | | | |
| 11 | | | | | | | |
| 11 | | | | | | | |
| 10 | | | | | | | |
| 9 | | | | | | | |
| 8 | | | | | | | |
| 7 | | | | | | | |
| 6 | | | | | | | |

ISOTHERM DEPTHS (M)

R/V RESEARCHER RES-STACS27-87

| XBT NO. | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
|---|---|---|---|---|---|---|---|
| YEAR | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 |
| MONTH | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| DAY (GMT) | 15 | 15 | 16 | 17 | 17 | 18 | 18 |
| TIME (GMT) | 1205 | 2359 | 1217 | 0040 | 1217 | 0032 | 1244 |
| LAT (N) | 25.07 | 25.75 | 26.13 | 26.51 | 26.50 | 26.45 | 26.50 |
| LON (W) | 72.73 | 73.33 | 73.67 | 74.54 | 75.21 | 75.58 | 75.92 |
| SURF T (C) | 22.0 | 23.6 | 23.6 | 23.7 | 23.5 | 21.4 | 22.5 |
| 28 | | | | | | | |
| 27 | | | | | | | |
| 26 | | | | | | | |
| 25 | | | | | | | |
| 24 | | | | | | | |
| 23 | | 126 | 115 | 109 | 74 | 31 | |
| 22 | | 151 | 148 | 149 | 128 | 88 | 126 |
| 21 | 81 | 172 | 184 | 180 | 168 | 361 | 171 |
| 20 | 108 | 197 | 208 | 214 | 209 | 192 | 223 |
| 19 | 176 | 238 | 252 | 258 | 253 | 252 | 277 |
| 18 | 292 | 321 | 344 | 342 | 360 | 368 | 393 |
| 17 | 401 | 414 | 442 | 429 | | 448 | |
| 16 | | | | | | | |
| 15 | | | | | | | |
| 14 | | | | | | | |
| 13 | | | | | | | |
| 12 | | | | | | | |
| 11 | | | | | | | |
| 10 | | | | | | | |
| 9 | | | | | | | |
| 8 | | | | | | | |
| 7 | | | | | | | |
| 6 | | | | | | | |

ISOTHERM DEPTHS (M)

R/V RESEARCHER RES-STACS27-87

| XBT NO. | 15 | 16 | 17 | 18 | 19 | 20 | 21 |
|---|---|---|---|---|---|---|---|
| YEAR | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 |
| MONTH | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| DAY (GMT) | 18 | 19 | 19 | 20 | 21 | 21 | 22 |
| TIME (GMT) | 0355 | 1601 | 0905 | 2133 | 0912 | 2213 | 1044 |
| LAT (N) | 26.52 | 26.60 | 26.56 | 27.26 | 27.00 | 27.03 | 27.00 |
| LON (W) | 76.55 | 76.64 | 76.75 | 79.25 | 79.85 | 79.50 | 79.68 |
| SURF T (C) | 22.6 | 22.6 | 21.3 | 25.0 | 24.4 | 25.2 | 25.0 |
| 28 | | | | | | | |
| 27 | | | | | | | |
| 26 | | | | | | | |
| 25 | | | | 54 | | 83 | 48 |
| 24 | | | | 113 | 39 | 98 | 62 |
| 23 | | | 70 | 328 | 61 | 121 | 94 |
| 22 | 134 | 134 | 148 | 138 | 78 | 136 | 107 |
| 21 | 215 | 211 | 196 | 151 | 91 | 173 | 123 |
| 20 | 261 | 253 | 252 | 204 | 131 | 203 | 129 |
| 19 | 308 | 295 | 286 | 274 | 149 | 222 | 136 |
| 18 | 389 | 376 | 380 | 321 | 172 | 242 | 153 |
| 17 | | | 445 | 394 | 260 | 278 | 191 |
| 16 | | | | 433 | 397 | 323 | 238 |
| 15 | | | | | 215 | 351 | 284 |
| 14 | | | | | 232 | 377 | 114 |
| 13 | | | | | 245 | 404 | 345 |
| 12 | | | | | 264 | 433 | 359 |
| 11 | | | | | 273 | | 376 |
| 10 | | | | | | | 418 |
| 9 | | | | | | | 450 |
| 8 | | | | | | | |
| 7 | | | | | | | |
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ISOTHERM DEPTHS (M)

R/V RESEARCHER RES-STACS27-87

| XBT NO. | 22 | 23 | 24 | 25 | 26 | 27 | 28 |
|---|---|---|---|---|---|---|---|
| YEAR | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 |
| MONTH | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| DAY (GMT) | 23 | 24 | 24 | 24 | 25 | 26 | 26 |
| TIME (GMT) | 1023 | 0000 | 1204 | 2358 | 3222 | 0025 | 1230 |
| LAT (N) | 25.91 | 26.48 | 27.04 | 27.00 | 27.03 | 26.15 | 25.91 |
| LON (W) | 79.73 | 79.51 | 79.70 | 79.38 | 79.63 | 79.82 | 76.75 |
| SURF T (C) | 25.3 | 25.2 | 25.1 | 25.1 | 25.4 | 25.3 | 23.1 |
| 28 | | | | | | | |
| 27 | | | | | | | |
| 26 | | | | | | | |
| 25 | 94 | 112 | 76 | 131 | 98 | 90 | |
| 24 | 112 | 123 | 91 | 146 | 108 | 96 | |
| 23 | 130 | 134 | 113 | 167 | 135 | 103 | 64 |
| 22 | 335 | 145 | 130 | 186 | 161 | 139 | 169 |
| 21 | 150 | 158 | 141 | 217 | 173 | 158 | 205 |
| 20 | 179 | 175 | 152 | 245 | 183 | 165 | 225 |
| 19 | 201 | 216 | 181 | 257 | 198 | 189 | 255 |
| 18 | 221 | 237 | 193 | 291 | 209 | 218 | 338 |
| 17 | 243 | 264 | 212 | 314 | 233 | 245 | 426 |
| 16 | 270 | 280 | 224 | 358 | 262 | 254 | |
| 15 | 280 | 305 | 233 | 393 | 285 | 265 | |
| 14 | 298 | 331 | 243 | 433 | 307 | 304 | |
| 13 | 327 | 361 | 269 | | 324 | 333 | |
| 12 | 356 | 408 | 303 | | | 361 | |
| 11 | 382 | 437 | 341 | | | 401 | |
| 10 | 429 | | 381 | | | 428 | |
| 9 | | | 438 | | | | |
| 8 | | | | | | | |
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ISOTHERM DEPTHS (M)

R/V RESEARCHER RES-STACS27-87

| XBT NO. | 29 | 30 | 31 | 31 | 33 | 34 | 35 |
|---|---|---|---|---|---|---|---|
| YEAR | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 |
| MONTH | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| DAY (GMT) | 27 | 27 | 28 | 28 | 29 | 29 | 30 |
| TIME (GMT) | 0644 | 1835 | 0649 | 2201 | 1003 | 2248 | 1105 |
| LAT (N) | 26.52 | 26.51 | 26.56 | 26.50 | 26.54 | 26.15 | 26.19 |
| LON (W) | 76.74 | 76.53 | 76.84 | 76.62 | 76.67 | 79.82 | 79.28 |
| SURF T (C) | 23.4 | 23.7 | 23.2 | 23.6 | 23.4 | 23.6 | 25.0 |
| 28 | | | | | | | |
| 27 | | | | | | | |
| 26 | | | | | | | |
| 25 | | | | | | | 61 |
| 24 | | | | | | | 135 |
| 23 | 40 | 41 | 39 | 77 | 53 | 65 | 154 |
| 22 | 137 | 127 | 129 | 129 | 123 | 318 | 169 |
| 21 | 179 | 162 | 165 | 174 | 180 | 181 | 197 |
| 20 | 212 | 222 | 226 | 212 | 205 | 205 | 231 |
| 19 | 277 | 272 | 278 | 259 | 272 | 263 | 259 |
| 18 | | 377 | | 386 | 383 | 378 | 295 |
| 17 | | | | | | | 355 |
| 16 | | | | | | | |
| 15 | | | | | | | |
| 14 | | | | | | | |
| 13 | | | | | | | |
| 12 | | | | | | | |
| 11 | | | | | | | |
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ISOTHERM DEPTHS (M)

R/V RESEARCHER RES-STACS28-87

| XBT NO. | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|---|---|---|---|---|---|---|---|
| YEAR | 87 | 87 | 87 | 87 | 87 | 87 | 87 |
| MONTH | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| DAY (GMT) | 1 | 2 | 2 | 2 | 2 | 2 | 2 |
| TIME (GMT) | 1742 | 0539 | 1007 | 1115 | 1211 | 1329 | 1427 |
| LAT (N) | 25.92 | 25.92 | 26.00 | 26.00 | 26.00 | 26.00 | 26.00 |
| LON (W) | 79.42 | 77.76 | 77.00 | 76.73 | 76.46 | 76.19 | 75.92 |
| SURF T (C) | 30.0 | 29.9 | 29.5 | 29.5 | 29.5 | 29.4 | 29.4 |
| 30 | 0 | | | | | | |
| 29 | 35 | 48 | 47 | 47 | 48 | 42 | 38 |
| 28 | 53 | 68 | 51 | 53 | 55 | 48 | 44 |
| 27 | 77 | 81 | 56 | 58 | 62 | 54 | 49 |
| 26 | 92 | 102 | 66 | 69 | 71 | 59 | 62 |
| 25 | 132 | 135 | 80 | 82 | 81 | 75 | 85 |
| 24 | 143 | 143 | 98 | 100 | 97 | 93 | 105 |
| 23 | 158 | 152 | 125 | 123 | 120 | 124 | 121 |
| 22 | 169 | 166 | 164 | 151 | 153 | 147 | 147 |
| 21 | 187 | 185 | 183 | 175 | 182 | 174 | 182 |
| 20 | 205 | 199 | 213 | 213 | 214 | 212 | 216 |
| 19 | 225 | 218 | 246 | 258 | 263 | 244 | 247 |
| 18 | 256 | 269 | 332 | 341 | 340 | 335 | 333 |
| 17 | 284 | 143 | 404 | 410 | 433 | 416 | 420 |
| 16 | 119 | 395 | 463 | 485 | 497 | 470 | 473 |
| 15 | 344 | 445 | 504 | 538 | 538 | 521 | 516 |
| 14 | 375 | | 548 | 582 | 600 | 567 | 575 |
| 13 | 404 | | 594 | 624 | 648 | 619 | 623 |
| 12 | 439 | | 634 | 655 | 694 | 666 | 671 |
| 11 | | | 664 | 701 | 736 | 706 | 720 |
| 10 | | | 703 | | | | |
| 9 | | | | | | | |
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ISOTHERM DEPTHS (M)

R/V RESEARCHER RES-STACS28-87

| XBT NO. | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
|---|---|---|---|---|---|---|---|
| YEAR | 87 | 87 | 87 | 87 | 87 | 87 | 87 |
| MONTH | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| DAY (GMT) | 2 | 2 | 2 | 3 | 3 | 3 | 3 |
| TIME (GMT) | 1518 | 2119 | 2213 | 2319 | 0008 | 0113 | 0204 |
| LAT (N) | 26.25 | 26.75 | 27.00 | 27.00 | 27.00 | 27.01 | 27.00 |
| LON (W) | 75.92 | 75.95 | 75.93 | 76.15 | 76.38 | 76.61 | 76.83 |
| SURF T (C) | 29.5 | 29.8 | 29.8 | 29.8 | 29.6 | 29.6 | 29.6 |
| 30 | | | | | | | |
| 29 | 39 | 37 | 39 | 40 | 39 | 37 | 36 |
| 28 | 45 | 40 | 46 | 45 | 46 | 44 | 42 |
| 27 | 54 | 48 | 59 | 61 | 55 | 52 | 48 |
| 26 | 63 | 58 | 68 | 70 | 68 | 65 | 65 |
| 25 | 78 | 80 | 86 | 83 | 84 | 79 | 76 |
| 24 | 101 | 97 | 97 | 109 | 107 | 95 | 93 |
| 23 | 122 | 117 | 122 | 140 | 133 | 115 | 121 |
| 22 | 145 | 147 | 159 | 170 | 153 | 141 | 146 |
| 21 | 178 | 188 | 201 | 207 | 196 | 200 | 188 |
| 20 | 202 | 222 | 226 | 240 | 229 | 228 | 213 |
| 19 | 265 | 267 | 284 | 300 | 289 | 268 | 260 |
| 18 | 351 | 374 | 390 | 416 | 398 | 371 | 382 |
| 17 | 449 | 478 | 489 | 506 | 487 | 452 | 467 |
| 16 | 494 | 533 | 552 | 566 | 544 | 536 | 524 |
| 15 | 550 | 579 | 603 | 616 | 596 | 629 | 568 |
| 14 | 603 | 631 | 637 | 659 | 647 | 671 | 622 |
| 13 | 648 | 674 | 691 | 704 | 695 | 702 | 664 |
| 12 | 693 | 719 | | | 736 | 738 | 700 |
| 11 | 728 | | | | | | |
| 10 | | | | | | | |
| 9 | | | | | | | |
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ISOTHERM DEPTHS (M)

R/V RESEARCHER RES-STACS28-87

| XBT NO. | 15 | 16 | 17 | 18 | 19 | 20 | 21 |
|---|---|---|---|---|---|---|---|
| YEAR | 87 | 87 | 87 | 87 | 87 | 87 | 87 |
| MONTH | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| DAY (GMT) | 3 | 3 | 4 | 5 | 5 | 5 | 5 |
| TIME (GMT) | 0305 | 1753 | 1754 | 0655 | 0853 | 1054 | 1254 |
| LAT (N) | 26.75 | 26.58 | 28.49 | 26.18 | 25.90 | 25.63 | 25.39 |
| LON (W) | 76.85 | 76.66 | 75.92 | 74.92 | 74.15 | 73.87 | 73.49 |
| SURF T (C) | 29.6 | 29.7 | 29.6 | 29.5 | 29.5 | 29.3 | 29.4 |
| 30 | | | | | | | |
| 29 | 40 | 36 | 46 | 47 | 41 | 46 | 46 |
| 28 | 47 | 39 | 51 | 53 | 45 | 55 | 50 |
| 27 | 54 | 48 | 58 | 61 | 50 | 65 | 60 |
| 26 | 67 | 57 | 66 | 72 | 65 | 75 | 74 |
| 25 | 83 | 72 | 78 | 85 | 84 | 87 | 89 |
| 24 | 104 | 99 | 98 | 99 | 107 | 108 | 110 |
| 23 | 123 | 125 | 125 | 125 | 127 | 136 | 136 |
| 22 | 143 | 143 | 155 | 148 | 149 | 159 | 165 |
| 21 | 179 | 166 | 196 | 182 | 177 | 193 | 201 |
| 20 | 229 | 195 | 226 | 208 | 211 | 225 | 230 |
| 19 | 259 | 253 | 271 | 251 | 249 | 270 | 273 |
| 18 | 345 | 341 | 363 | 341 | 322 | 359 | 364 |
| 17 | 426 | 445 | | 407 | 423 | 414 | 466 |
| 16 | 472 | | | 471 | 487 | 497 | 523 |
| 15 | 520 | | | 517 | 535 | 549 | 567 |
| 14 | 559 | | | 566 | 578 | 597 | 616 |
| 13 | 609 | | | 625 | 617 | 637 | 659 |
| 12 | 652 | | | 663 | 660 | 671 | 708 |
| 11 | 685 | | | 701 | 693 | 721 | |
| 10 | | | | | 731 | | |
| 9 | | | | | | | |
| 8 | | | | | | | |
| 7 | | | | | | | |
| 6 | | | | | | | |

ISOTHERM DEPTHS (M)

R/V RESEARCHER RES-STACS28-87

| XBT NO. | 22 | 23 | 24 | 25 | 26 | 27 | 28 |
|---|---|---|---|---|---|---|---|
| YEAR | 87 | 87 | 87 | 87 | 87 | 87 | 87 |
| MONTH | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| DAY (GMT) | 5 | 5 | 5 | 6 | 7 | 7 | 7 |
| TIME (GMT) | 1454 | 1653 | 1853 | 1153 | 0201 | 0345 | 0541 |
| LAT (N) | 25.10 | 24.82 | 24.52 | 23.25 | 22.44 | 22.31 | 22.25 |
| LON (W) | 73.10 | 72.75 | 72.35 | 72.46 | 72.64 | 72.12 | 71.67 |
| SURF T (C) | 29.7 | 29.8 | 29.7 | 29.5 | 29.2 | 29.4 | 29.5 |
| 30 | | | | | | | |
| 29 | 41 | 40 | 45 | 42 | 41 | 45 | 52 |
| 28 | 43 | 44 | 51 | 52 | 54 | 50 | 58 |
| 27 | 49 | 50 | 56 | 58 | 64 | 59 | 67 |
| 26 | 60 | 61 | 69 | 67 | 78 | 73 | 81 |
| 25 | 76 | 76 | 84 | 80 | 94 | 96 | 94 |
| 24 | 100 | 102 | 97 | 108 | 115 | 127 | 112 |
| 23 | 131 | 131 | 119 | 127 | 145 | 150 | 138 |
| 22 | 164 | 161 | 146 | 151 | 166 | 168 | 159 |
| 21 | 203 | 205 | 175 | 174 | 186 | 198 | 187 |
| 20 | 246 | 245 | 203 | 201 | 221 | 221 | 203 |
| 19 | 306 | 290 | 252 | 245 | 262 | 263 | 244 |
| 18 | 409 | 399 | 373 | 341 | 332 | 325 | 325 |
| 17 | 499 | 490 | 463 | 425 | 433 | 416 | 422 |
| 16 | 553 | 548 | 518 | | 463 | 469 | 473 |
| 15 | 598 | 589 | 560 | | 500 | 507 | 518 |
| 14 | 634 | 629 | 608 | | 550 | 554 | 566 |
| 13 | 679 | 681 | 656 | | 599 | 594 | 610 |
| 12 | 723 | 726 | 695 | | 625 | 627 | 655 |
| 11 | | | | | 678 | 677 | 709 |
| 10 | | | | | 723 | | |
| 9 | | | | | | | |
| 8 | | | | | | | |
| 7 | | | | | | | |
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ISOTHERM DEPTHS (M)

R/V RESEARCHER RES-STACS28-87

| XBT NO. | 29 | 30 | 31 | 32 | 33 | 34 | 35 |
|---|---|---|---|---|---|---|---|
| YEAR | 87 | 87 | 87 | 87 | 87 | 87 | 87 |
| MONTH | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| DAY (GMT) | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| TIME (GMT) | 0732 | 0953 | 1154 | 1353 | 1554 | 1754 | 1943 |
| LAT (N) | 22.13 | 22.01 | 21.93 | 21.84 | 21.80 | 21.75 | 21.70 |
| LON (W) | 71.22 | 70.70 | 70.29 | 69.91 | 69.44 | 68.95 | 68.50 |
| SURF T (C) | 29.7 | 29.4 | 29.1 | 29.3 | 29.7 | 29.8 | 29.9 |
| 30 | | | | | | | |
| 29 | 43 | 50 | 36 | 43 | 40 | 45 | 44 |
| 28 | 46 | 53 | 43 | 49 | 46 | 53 | 49 |
| 27 | 54 | 57 | 54 | 60 | 54 | 60 | 55 |
| 26 | 62 | 65 | 68 | 80 | 68 | 72 | 63 |
| 25 | 76 | 81 | 91 | 102 | 88 | 89 | 78 |
| 24 | 93 | 102 | 115 | 120 | 117 | 104 | 92 |
| 23 | 115 | 117 | 143 | 143 | 138 | 128 | 121 |
| 22 | 138 | 142 | 174 | 177 | 160 | 151 | 156 |
| 21 | 161 | 173 | 196 | 217 | 189 | 168 | 180 |
| 20 | 193 | 196 | 221 | 242 | 217 | 291 | 204 |
| 19 | 238 | 236 | 247 | 274 | 260 | 236 | 243 |
| 18 | 318 | 322 | 313 | 315 | 330 | 340 | 321 |
| 17 | 414 | 401 | 395 | 376 | 402 | 405 | 396 |
| 16 | 471 | 453 | 450 | 424 | 454 | 456 | 468 |
| 15 | 509 | 502 | 491 | 476 | 493 | 503 | 521 |
| 14 | 556 | 550 | 539 | 521 | 528 | 546 | 565 |
| 13 | 597 | 592 | 577 | 568 | 580 | 581 | 604 |
| 12 | 647 | 634 | 623 | 605 | 626 | 615 | 650 |
| 11 | 700 | 672 | 664 | 648 | 685 | 651 | 703 |
| 10 | 740 | 725 | 714 | 685 | 730 | 710 | |
| 9 | | | | | | | |
| 8 | | | | | | | |
| 7 | | | | | | | |
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ISOTHERM DEPTHS (M)

R/V RESEARCHER RES-STACS28-87

| XBT NO. | 36 | 37 | 38 | 39 | 40 | 41 | 42 |
|---|---|---|---|---|---|---|---|
| YEAR | 87 | 87 | 87 | 87 | 87 | 87 | 87 |
| MONTH | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| DAY (GMT) | 7 | 7 | 8 | 8 | 8 | 9 | 9 |
| TIME (GMT) | 2149 | 2353 | 0201 | 0356 | 0552 | 1755 | 0550 |
| LAT (N) | 21.67 | 21.63 | 21.58 | 21.54 | 21.44 | 20.10 | 19.30 |
| LON (W) | 68.03 | 67.99 | 67.00 | 66.50 | 66.11 | 66.12 | 66.13 |
| SURF T (C) | 10.0 | 29.7 | 29.6 | 29.6 | 29.4 | 29.5 | 29.1 |
| 30 | | | | | | | |
| 29 | 42 | 46 | 52 | 50 | 54 | 58 | 53 |
| 28 | 46 | 55 | 58 | 58 | 59 | 65 | 63 |
| 27 | 57 | 59 | 63 | 66 | 67 | 73 | 68 |
| 26 | 66 | 64 | 66 | 75 | 77 | 84 | 80 |
| 25 | 82 | 81 | 74 | 91 | 95 | 105 | 95 |
| 24 | 104 | 105 | 87 | 113 | 116 | 122 | 115 |
| 23 | 125 | 140 | 106 | 139 | 141 | 153 | 143 |
| 22 | 160 | 149 | 154 | 155 | 183 | 171 | 164 |
| 21 | 189 | 179 | 168 | 199 | 203 | 200 | 188 |
| 20 | 216 | 198 | 203 | 220 | 234 | 217 | 209 |
| 19 | 253 | 227 | 239 | 255 | 263 | 261 | 247 |
| 18 | 325 | 304 | 291 | 311 | 311 | 323 | 282 |
| 17 | 415 | 384 | 369 | 358 | 364 | 373 | 335 |
| 16 | 465 | 438 | 412 | 406 | 408 | 425 | 387 |
| 15 | 508 | 479 | 461 | 454 | 452 | | 410 |
| 14 | 545 | 514 | 507 | 494 | 494 | | |
| 13 | 594 | 563 | 544 | 552 | 556 | | |
| 22 | 656 | 615 | 596 | 590 | 602 | | |
| 11 | 695 | 662 | 639 | 647 | 639 | | |
| 10 | | 708 | 686 | 683 | 679 | | |
| 9 | | | | | | | |
| 8 | | | | | | | |
| 7 | | | | | | | |
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ISOTHERM DEPTHS (M)

R/V RESEARCHER RES-STACS28-87

| XBT NO. | 43 | 44 | 45 | 46 | 47 | 48 | 49 |
|---|---|---|---|---|---|---|---|
| YEAR | 87 | 87 | 87 | 87 | 87 | 87 | 87 |
| MONTH | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| DAY (GMT) | 9 | 10 | 10 | 11 | 11 | 11 | 11 |
| TIME (GMT) | 1753 | 0550 | 1745 | 0601 | 1152 | 1454 | 1753 |
| LAT (N) | 18.52 | 17.82 | 18.11 | 18.80 | 18.38 | 17.88 | 17.41 |
| LON (W) | 65.66 | 62.97 | 61.26 | 60.53 | 60.08 | 59.62 | 59.13 |
| SURF T (C) | 29.5 | 29.1 | 29.1 | 28.9 | 28.7 | 29.0 | 29.1 |
| 30 | | | | | | | |
| 29 | 41 | 25 | 24 | | | 29 | 21 |
| 28 | 52 | 47 | 41 | 50 | 53 | 50 | 47 |
| 27 | 62 | 59 | 51 | 60 | 60 | 57 | 61 |
| 26 | 73 | 75 | 60 | 76 | 67 | 71 | 75 |
| 25 | 90 | 206 | 80 | 101 | 80 | 91 | 91 |
| 24 | 105 | 127 | 95 | 147 | 116 | 112 | 113 |
| 23 | 122 | 252 | 132 | 171 | 142 | 143 | 138 |
| 22 | 144 | 171 | 158 | 190 | 161 | 160 | 164 |
| 21 | 162 | 194 | 174 | 204 | 182 | 178 | 182 |
| 20 | 186 | 216 | 193 | 226 | 208 | 194 | 201 |
| 19 | 202 | 233 | 211 | 243 | 228 | 216 | 222 |
| 18 | 248 | 256 | 250 | 289 | 275 | 262 | 251 |
| 17 | 303 | 296 | 304 | 324 | 312 | 308 | 284 |
| 16 | 148 | 332 | 346 | 367 | 356 | 339 | 313 |
| 15 | 401 | 371 | 379 | 415 | 400 | 381 | 352 |
| 14 | | | 399 | | 439 | 415 | 396 |
| 13 | | | 427 | | 483 | 459 | 445 |
| 12 | | | | | 519 | 498 | 482 |
| 11 | | | | | 562 | 533 | 512 |
| 10 | | | | | 610 | 572 | 548 |
| 9 | | | | | 656 | 621 | 583 |
| 8 | | | | | 699 | 664 | 650 |
| 7 | | | | | | 728 | 729 |
| 6 | | | | | | | |

ISOTHERM DEPTHS (M)

R/V RESEARCHER RES-STACS28-87

| XBT NO. | 50 | 51 | 52 | 53 | 54 | 55 | 56 |
|---|---|---|---|---|---|---|---|
| YEAR | 87 | 87 | 87 | 87 | 87 | 87 | 87 |
| MONTH | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| DAY (GMT) | 11 | 11 | 12 | 12 | 12 | 12 | 12 |
| TIME (GMT) | 2049 | 2354 | 0311 | 0550 | 0852 | 1153 | 1452 |
| LAT (N) | 16.92 | 16.37 | 15.98 | 15.48 | 15.02 | 14.60 | 14.08 |
| LON (W) | 58.70 | 58.23 | 57.80 | 57.33 | 56.88 | 56.52 | 56.00 |
| SURF T (C) | 29.1 | 28.8 | 28.9 | 29.0 | 28.8 | 28.8 | 28.7 |
| 30 | | | | | | | |
| 29 | 13 | | | 17 | | | |
| 28 | 61 | 56 | 55 | 51 | 41 | 44 | 52 |
| 27 | 75 | 69 | 61 | 63 | 64 | 65 | 66 |
| 26 | 96 | 84 | 78 | 77 | 81 | 79 | 77 |
| 25 | 108 | 115 | 105 | 95 | 108 | 96 | 96 |
| 24 | 131 | 138 | 128 | 121 | 126 | 131 | 107 |
| 23 | 149 | 157 | 146 | 140 | 143 | 143 | 121 |
| 22 | 167 | 171 | 160 | 155 | 161 | 156 | 138 |
| 21 | 190 | 183 | 178 | 170 | 181 | 170 | 149 |
| 20 | 216 | 204 | 196 | 186 | 198 | 183 | 161 |
| 19 | 235 | 218 | 220 | 198 | 218 | 208 | 178 |
| 18 | 259 | 240 | 240 | 225 | 234 | 219 | 195 |
| 17 | 287 | 268 | 266 | 258 | 259 | 231 | 210 |
| 16 | 321 | 312 | 297 | 278 | 286 | 249 | 226 |
| 15 | 359 | 134 | 326 | 304 | 308 | 265 | 251 |
| 14 | 387 | 365 | 350 | 327 | 334 | 294 | 276 |
| 13 | 401 | 392 | 376 | 354 | 362 | 313 | 302 |
| 12 | 415 | 422 | 457 | 408 | 390 | 337 | 334 |
| 11 | 439 | 455 | 475 | 427 | 427 | 385 | 383 |
| 10 | 483 | 498 | 496 | 472 | 471 | 416 | 431 |
| 9 | 564 | 536 | 576 | 522 | 512 | 470 | 489 |
| 8 | 633 | 607 | 636 | 575 | 553 | 529 | 568 |
| 7 | 698 | 716 | 737 | 672 | 625 | 625 | 669 |
| 6 | | | | | | 736 | |

ISOTHERM DEPTHS (M)

R/V RESEARCHER RES-STACS28-87

| XBT NO. | 57 | 58 | 59 | 60 | 61 | 62 | 63 |
|---|---|---|---|---|---|---|---|
| YEAR | 87 | 87 | 87 | 87 | 87 | 87 | 87 |
| MONTH | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| DAY (GMT) | 12 | 12 | 13 | 14 | 16 | 16 | 16 |
| TIME (GMT) | 1751 | 2049 | 1153 | 0548 | 1752 | 2006 | 2226 |
| LAT (N) | 13.63 | 13.26 | 11.94 | 13.00 | 12.91 | 12.77 | 12.66 |
| LON (W) | 55.60 | 55.25 | 56.25 | 58.28 | 58.94 | 58.40 | 57.90 |
| SURF T (C) | 28.9 | 28.8 | 28.8 | 28.9 | 29.3 | 29.2 | 29.0 |
| 30 | | | | | | | |
| 29 | | | | | 10 | 5 | |
| 28 | 48 | 50 | 54 | 60 | 48 | 55 | 54 |
| 27 | 61 | 62 | 64 | 60 | 63 | 77 | 74 |
| 26 | 82 | 78 | 76 | 90 | 80 | 87 | 87 |
| 25 | 95 | 90 | 98 | 107 | 100 | 109 | 106 |
| 24 | 105 | 100 | 106 | 121 | 127 | 118 | 120 |
| 23 | 118 | 114 | 117 | 131 | 141 | 134 | 131 |
| 22 | 133 | 132 | 134 | 146 | 159 | 146 | 143 |
| 21 | 145 | 142 | 151 | 160 | 172 | 162 | 162 |
| 20 | 159 | 148 | 164 | 172 | 182 | 177 | 175 |
| 19 | 172 | 166 | 177 | 184 | 193 | 189 | 188 |
| 18 | 189 | 181 | 195 | 207 | 207 | 213 | 202 |
| 17 | 207 | 198 | 206 | 222 | 232 | 231 | 214 |
| 16 | 225 | 213 | 216 | 216 | 245 | 244 | 225 |
| 15 | 244 | 234 | 149 | 257 | 260 | 258 | 257 |
| 14 | 273 | 253 | 268 | 271 | 282 | 281 | 271 |
| 13 | 299 | 278 | 294 | 284 | 301 | 193 | 309 |
| 12 | 128 | 312 | 319 | 311 | 326 | 306 | 338 |
| 11 | 372 | 355 | 373 | 332 | 359 | 334 | 365 |
| 10 | 409 | 389 | 403 | 372 | 398 | 373 | 429 |
| 9 | 481 | 445 | | 414 | 444 | 420 | 467 |
| 8 | 547 | 522 | | | 491 | 478 | 520 |
| 7 | 659 | 505 | | | 551 | 561 | 583 |
| 6 | | 717 | | | 680 | 678 | 742 |

ISOTHERM DEPTHS (M)

R/V RESEARCHER RES-STACS28-87

| XBT NO. | 64 | 65 | 66 | 67 | 68 | 69 | 70 |
|---|---|---|---|---|---|---|---|
| YEAR | 87 | 87 | 87 | 87 | 87 | 87 | 87 |
| MONTH | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| DAY (GMT) | 17 | 17 | 17 | 17 | 17 | 17 | 17 |
| TIME (GMT) | 0049 | 0300 | 0526 | 0731 | 1751 | 2124 | 2255 |
| LAT (N) | 12.53 | 12.42 | 12.33 | 12.23 | 11.25 | 10.95 | 10.65 |
| LON (W) | 57.42 | 56.92 | 56.41 | 55.92 | 55.90 | 56.07 | 56.24 |
| SURF T (C) | 29.0 | 28.9 | 29.0 | 29.0 | 29.5 | 30.0 | 30.0 |
| 30 | | | | | | 0 | |
| 29 | 11 | | 14 | 28 | 23 | 33 | 36 |
| 28 | 49 | 45 | 42 | 38 | 30 | 41 | 45 |
| 27 | 69 | 65 | 59 | 48 | 39 | 52 | 51 |
| 26 | 78 | 77 | 68 | 58 | 49 | 58 | 67 |
| 25 | 95 | 95 | 80 | 83 | 66 | 73 | 73 |
| 24 | 102 | 109 | 90 | 94 | 85 | 83 | 80 |
| 23 | 122 | 117 | 107 | 106 | 92 | 112 | 92 |
| 22 | 137 | 125 | 114 | 114 | 96 | 121 | 112 |
| 21 | 150 | 137 | 125 | 123 | 107 | 125 | 124 |
| 20 | 164 | 147 | 138 | 129 | 115 | 129 | 135 |
| 19 | 178 | 158 | 358 | 164 | 127 | 149 | 141 |
| 18 | 195 | 175 | 170 | 179 | 135 | 157 | 150 |
| 17 | 210 | 188 | 182 | 196 | 150 | 167 | 179 |
| 16 | 224 | 199 | 189 | 214 | 161 | 177 | 198 |
| 15 | 239 | 223 | 204 | 233 | 178 | 185 | 219 |
| 14 | 261 | 250 | 229 | 253 | 190 | 209 | 246 |
| 13 | 286 | 277 | 245 | 279 | 216 | 218 | 273 |
| 12 | 317 | 306 | 300 | 138 | 234 | 229 | 302 |
| 11 | 364 | 350 | 344 | 392 | 260 | 251 | 347 |
| 10 | 391 | 391 | 371 | 437 | 307 | 285 | 380 |
| 9 | 442 | 445 | 403 | 474 | 360 | 314 | 438 |
| 8 | 505 | 512 | 481 | 523 | | 405 | 512 |
| 7 | 608 | 595 | 571 | 594 | | 508 | 590 |
| 6 | 719 | 676 | 652 | 714 | | 669 | 725 |

ISOTHERM DEPTHS (M)

R/V RESEARCHER RES-STACS28-87

| XBT NO. | 71 | 72 | 73 | 74 | 75 | 76 | 77 |
|---|---|---|---|---|---|---|---|
| YEAR | 87 | 87 | 87 | 87 | 87 | 87 | 87 |
| MONTH | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| DAY (GMT) | 18 | 18 | 18 | 18 | 18 | 19 | 19 |
| TIME (GMT) | 0405 | 0530 | 1010 | 1414 | 1803 | 0552 | 1752 |
| LAT (N) | 10.07 | 9.78 | 9.27 | 8.83 | 8.42 | 7.66 | 6.99 |
| LON (W) | 56.56 | 58.72 | 56.99 | 57.27 | 57.47 | 55.37 | 53.06 |
| SURF T (C) | 29.4 | 29.6 | 29.6 | 29.8 | 30.0 | 29.0 | 29.5 |
| 30 | | | | | 1 | | |
| 29 | 34 | 33 | 40 | 37 | 32 | | 10 |
| 28 | 40 | 43 | 51 | 48 | 44 | 41 | 39 |
| 27 | 50 | 55 | 59 | 54 | 54 | 59 | 48 |
| 26 | 69 | 73 | 73 | 73 | 66 | 69 | 57 |
| 25 | 82 | 82 | 80 | 83 | 73 | 81 | 60 |
| 24 | 90 | 89 | 93 | 90 | 88 | 88 | 63 |
| 23 | 98 | 112 | 102 | 102 | 104 | 94 | 69 |
| 22 | 104 | 121 | 118 | 111 | 117 | 105 | 87 |
| 21 | 126 | 126 | 125 | 115 | 123 | 124 | 97 |
| 20 | 132 | 131 | 119 | 121 | 129 | 138 | 133 |
| 19 | 135 | 141 | 146 | 126 | 139 | 152 | 149 |
| 18 | 147 | 148 | 155 | 142 | 148 | 158 | 155 |
| 17 | 176 | 165 | 161 | 150 | 155 | 167 | 171 |
| 16 | 192 | 173 | 167 | 162 | 167 | 181 | |
| 15 | 206 | 180 | 178 | 174 | 179 | 195 | |
| 14 | 220 | 190 | 192 | 181 | 198 | 203 | |
| 13 | 226 | 209 | 209 | 192 | 215 | 217 | |
| 12 | 241 | 224 | 226 | 205 | 242 | 234 | |
| 11 | 296 | 247 | 253 | 234 | 266 | 274 | |
| 10 | 338 | 292 | 303 | 277 | 304 | 318 | |
| 9 | 395 | 352 | 365 | 317 | 368 | 377 | |
| 8 | 461 | 421 | 463 | 455 | 457 | 433 | |
| 7 | 558 | 530 | 569 | 550 | 550 | | |
| 6 | 611 | 668 | 695 | 672 | 650 | | |

ISOTHERM DEPTHS (M)

R/V RESEARCHER RES-STACS28-87

| XBT NO. | 78 | 79 | 80 | 81 | 82 | 83 | 84 |
|---|---|---|---|---|---|---|---|
| YEAR | 87 | 87 | 87 | 87 | 87 | 87 | 87 |
| MONTH | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| DAY (GMT) | 20 | 20 | 21 | 22 | 23 | 23 | 23 |
| TIME (GMT) | 1152 | 2147 | 1153 | 1200 | 0544 | 0759 | 1531 |
| LAT (N) | 7.35 | 7.59 | 8.19 | 8.66 | 9.88 | 9.53 | 8.77 |
| LON (W) | 52.85 | 52.74 | 52.33 | 52.05 | 51.12 | 50.71 | 49.93 |
| SURF T (C) | 29.0 | 29.8 | 29.3 | 29.2 | 29.2 | 29.1 | 29.4 |
| 30 | | | | | | | |
| 29 | 8 | 13 | 15 | 26 | 15 | 20 | 24 |
| 28 | 51 | 37 | 39 | 55 | 41 | 28 | 29 |
| 27 | 68 | 77 | 73 | 73 | 47 | 40 | 39 |
| 26 | 85 | 90 | 83 | 79 | 54 | 47 | 47 |
| 25 | 87 | 100 | 92 | 82 | 61 | 54 | 53 |
| 24 | 89 | 105 | 105 | 89 | 77 | 68 | 61 |
| 23 | 93 | 112 | 121 | 108 | 82 | 83 | 68 |
| 22 | 137 | 147 | 132 | 125 | 97 | 88 | 86 |
| 21 | 151 | 153 | 149 | 135 | 106 | 94 | 92 |
| 20 | 156 | 157 | 157 | 155 | 113 | 100 | 98 |
| 19 | 161 | 161 | 192 | 160 | 122 | 114 | 104 |
| 18 | 166 | 165 | 200 | 166 | 127 | 133 | 107 |
| 17 | 173 | 178 | 204 | 172 | 135 | 143 | 112 |
| 16 | 188 | 194 | 209 | 176 | 153 | 751 | 118 |
| 15 | 203 | 203 | 215 | 190 | 160 | 158 | 129 |
| 14 | 229 | 211 | 228 | 197 | 169 | 165 | 153 |
| 13 | 253 | 227 | 240 | 213 | 180 | 175 | 168 |
| 12 | 281 | 244 | 254 | 241 | 197 | 200 | 189 |
| 11 | 297 | 260 | 266 | 283 | 215 | 225 | 209 |
| 10 | 336 | 334 | 277 | 318 | 287 | 287 | 262 |
| 9 | 383 | 390 | 291 | 346 | 369 | 385 | 319 |
| 8 | | | 329 | 438 | 437 | 481 | 361 |
| 7 | | | | | | 553 | 451 |
| 6 | | | | | | 652 | 583 |

ISOTHERM DEPTHS (M)

R/V RESEARCHER RES-STACS28-87

| XBT NO. | 85 | 86 | 87 | 88 | 89 | 90 | 91 |
|---|---|---|---|---|---|---|---|
| YEAR | 87 | 87 | 87 | 87 | 87 | 87 | 87 |
| MONTH | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| DAY (GMT) | 23 | 23 | 24 | 24 | 24 | 24 | 24 |
| TIME (GMT) | 1713 | 1836 | 0051 | 0159 | 0354 | 0911 | 1339 |
| LAT (N) | 8.47 | 8.18 | 7.55 | 7.35 | 6.92 | 6.39 | 5.96 |
| LON (W) | 49.20 | 49.47 | 48.95 | 48.82 | 48.53 | 48.42 | 48.66 |
| SURF T (C) | 29.4 | 29.5 | 28.8 | 28.0 | 28.2 | 28.4 | 28.6 |
| 30 | | | | | | | |
| 29 | | 28 | 27 | | | | |
| 28 | 43 | 41 | 38 | 27 | 35 | 45 | 58 |
| 27 | 54 | 57 | 68 | 96 | 105 | 116 | 94 |
| 26 | 65 | 70 | 95 | 111 | 133 | 139 | 120 |
| 25 | 77 | 87 | 103 | 118 | 136 | 143 | 141 |
| 24 | 85 | 104 | 116 | 135 | 148 | 149 | 157 |
| 23 | 95 | 110 | 129 | 142 | 156 | 158 | 181 |
| 22 | 102 | 115 | 134 | 150 | 160 | 167 | 187 |
| 21 | 111 | 119 | 138 | 154 | 164 | 176 | 190 |
| 20 | 115 | 124 | 145 | 157 | 168 | 181 | 193 |
| 19 | 118 | 128 | 150 | 159 | 179 | 184 | 199 |
| 18 | 121 | 134 | 154 | 165 | 186 | 191 | 206 |
| 17 | 133 | 141 | 164 | 172 | 193 | 197 | 211 |
| 16 | 140 | 153 | 173 | 185 | 204 | 203 | 221 |
| 15 | 148 | 165 | 184 | 191 | 215 | 211 | 225 |
| 14 | 156 | 175 | 194 | 203 | 221 | 219 | 231 |
| 13 | 173 | 189 | 204 | 212 | 228 | 224 | 243 |
| 12 | 186 | 204 | 214 | 224 | 246 | 235 | 256 |
| 11 | 208 | 239 | 226 | 252 | 264 | 254 | 289 |
| 10 | 258 | 278 | 264 | 293 | 278 | 310 | 307 |
| 9 | 314 | 312 | 330 | 333 | 312 | 347 | 355 |
| 8 | 365 | 409 | 184 | 361 | 364 | 444 | 407 |
| 7 | | 532 | 504 | 522 | 557 | 549 | 558 |
| 6 | | 601 | 628 | 661 | 651 | 719 | 680 |

ISOTHERM DEPTHS (M)

R/V RESEARCHER RES-STACS28-87

| XBT NO. | 92 | 93 | 94 | 95 | 96 | 97 | 98 |
|---|---|---|---|---|---|---|---|
| YEAR | 87 | 87 | 87 | 87 | 87 | 87 | 87 |
| MONTH | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| DAY (GMT) | 24 | 24 | 25 | 25 | 25 | 25 | 25 |
| TIME (GMT) | 1815 | 2240 | 0248 | 0701 | 0842 | 1027 | 1208 |
| LAT (N) | 5.52 | 5.08 | 4.64 | 4.82 | 5.24 | 5.65 | 6.06 |
| LON (W) | 48.92 | 49.14 | 49.92 | 49.78 | 50.06 | 50.35 | 50.63 |
| SURF T (C) | 28.7 | 28.5 | 28.4 | 28.2 | 28.1 | 28.1 | 28.0 |
| 30 | | | | | | | |
| 29 | | | | | | | |
| 28 | 61 | 48 | 34 | 36 | 19 | 24 | 0 |
| 27 | 101 | 86 | 85 | 83 | 65 | 57 | 57 |
| 26 | 126 | 107 | 96 | 91 | 75 | 71 | 77 |
| 25 | 138 | 128 | 101 | 99 | 85 | 79 | 82 |
| 24 | 143 | 136 | 116 | 111 | 94 | 96 | 93 |
| 23 | 187 | 152 | 132 | 127 | 107 | 100 | 96 |
| 22 | 192 | 169 | 136 | 136 | 115 | 106 | 99 |
| 21 | 196 | 174 | 143 | 145 | 136 | 120 | 102 |
| 20 | 200 | 181 | 168 | 164 | 148 | 133 | 108 |
| 19 | 204 | 194 | 175 | 176 | 171 | 139 | 119 |
| 18 | 207 | 198 | 181 | 193 | 176 | 147 | 123 |
| 17 | 209 | 206 | 186 | 196 | 182 | 161 | 128 |
| 16 | 237 | 213 | 189 | 200 | 186 | 171 | 154 |
| 15 | 244 | 219 | 193 | 206 | 193 | 179 | 171 |
| 14 | 250 | 224 | 202 | 217 | 196 | 188 | 186 |
| 13 | 261 | 212 | 216 | 233 | 201 | 204 | 211 |
| 12 | 272 | 238 | 231 | 248 | 234 | 230 | 239 |
| 11 | 288 | 257 | 276 | 264 | 256 | 266 | 299 |
| 10 | 340 | 281 | 325 | 294 | 330 | 331 | 337 |
| 9 | 388 | 348 | 363 | 365 | 365 | 347 | 396 |
| 8 | 423 | 428 | 424 | 471 | 401 | 409 | 430 |
| 7 | 514 | 511 | 525 | 595 | 493 | 492 | 510 |
| 6 | 658 | 673 | 630 | 688 | 609 | 665 | |

ISOTHERM DEPTHS (M)

R/V RESEARCHER RES-STACS28-87

| XBT NO. | 99 | 100 | 101 | 101 | 103 | 104 | 105 |
|---|---|---|---|---|---|---|---|
| YEAR | 87 | 87 | 87 | 87 | 87 | 87 | 87 |
| MONTH | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| DAY (GMT) | 25 | 25 | 25 | 25 | 25 | 25 | 26 |
| TIME (GMT) | 1405 | 1603 | 1755 | 2013 | 2159 | 2359 | 0158 |
| LAT (N) | 6.47 | 6.89 | 7.28 | 7.71 | 8.13 | 8.50 | 8.77 |
| LON (W) | 50.92 | 51.20 | 51.50 | 51.78 | 52.05 | 52.38 | 52.80 |
| SURF T (C) | 28.3 | 28.6 | 28.9 | 29.4 | 28.7 | 18.9 | 29.1 |
| 30 | | | | | | | |
| 29 | | | | 6 | | | 15 |
| 28 | 16 | 20 | 28 | 21 | 47 | 53 | 42 |
| 27 | 72 | 55 | 76 | 72 | 87 | 83 | 82 |
| 26 | 75 | 62 | 80 | 88 | 104 | 96 | 94 |
| 25 | 76 | 71 | 86 | 101 | 108 | 114 | 99 |
| 24 | 90 | 74 | 88 | 103 | 112 | 122 | 104 |
| 23 | 93 | 84 | 90 | 104 | 114 | 139 | 112 |
| 22 | 96 | 88 | 92 | 106 | 116 | 150 | 124 |
| 21 | 106 | 92 | 94 | 107 | 118 | 155 | 130 |
| 20 | 110 | 96 | 97 | 108 | 122 | 164 | 141 |
| 19 | 115 | 99 | 103 | 110 | 125 | 171 | 162 |
| 18 | 121 | 102 | 105 | 114 | 127 | 177 | 168 |
| 17 | 128 | 108 | 107 | 117 | 111 | 186 | 177 |
| 16 | 136 | 125 | 116 | 123 | 154 | 197 | 184 |
| 15 | 142 | 138 | 132 | 128 | 164 | 207 | 195 |
| 14 | 181 | 167 | 158 | 136 | 175 | 213 | 199 |
| 13 | 211 | 186 | 176 | 152 | 186 | 237 | 214 |
| 12 | 251 | 229 | 222 | 188 | 208 | 257 | 227 |
| 11 | 306 | 307 | 282 | 234 | 229 | 270 | 250 |
| 10 | 149 | 382 | 156 | 289 | 287 | 305 | 296 |
| 9 | 420 | 443 | 396 | 383 | 386 | 349 | 332 |
| 8 | 470 | 475 | | | | 398 | 397 |
| 7 | 535 | 566 | | | | | |
| 6 | | | | | | | |

ISOTHERM DEPTHS (M)

R/V RESEARCHER RES-STACS28-87

| XBT NO. | 106 | 107 | 108 | 109 | 110 | 111 | 112 |
|---|---|---|---|---|---|---|---|
| YEAR | 87 | 87 | 87 | 87 | 87 | 87 | 87 |
| MONTH | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| DAY (GMT) | 26 | 26 | 16 | 26 | 26 | 26 | 26 |
| TIME (GMT) | 0408 | 0613 | 0807 | 1017 | 1238 | 1451 | 1700 |
| LAT (N) | 9.05 | 9.31 | 9.57 | 9.84 | 10.11 | 10.39 | 10.65 |
| LON (W) | 53.23 | 53.65 | 54.08 | 54.51 | 54.93 | 55.37 | 55.78 |
| SURF T (C) | 29.1 | 28.8 | 29.2 | 29.1 | 29.2 | 29.3 | 29.3 |
| 30 | | | | | | | |
| 29 | 24 | 29 | 32 | 32 | 46 | 42 | 42 |
| 28 | 38 | 34 | 39 | 40 | 49 | 47 | 49 |
| 27 | 55 | 42 | 49 | 51 | 55 | 61 | 62 |
| 26 | 69 | 55 | 59 | 70 | 73 | 79 | 76 |
| 25 | 81 | 74 | 69 | 79 | 84 | 89 | 85 |
| 24 | 92 | 90 | 77 | 85 | 94 | 94 | 94 |
| 23 | 96 | 98 | 83 | 94 | 100 | 102 | 106 |
| 22 | 113 | 103 | 96 | 101 | 109 | 132 | 118 |
| 21 | 125 | 119 | 110 | 116 | 119 | 141 | 128 |
| 20 | 142 | 135 | 121 | 128 | 111 | 152 | 146 |
| 19 | 149 | 141 | 135 | 137 | 151 | 161 | 164 |
| 18 | 157 | 157 | 155 | 147 | 160 | 167 | 173 |
| 17 | 166 | 168 | 161 | 160 | 169 | 174 | 190 |
| 16 | 179 | 179 | 177 | 172 | 180 | 188 | 208 |
| 15 | 196 | 192 | 188 | 188 | 194 | 198 | 225 |
| 14 | 206 | 223 | 206 | 202 | 218 | 216 | 248 |
| 13 | 218 | 218 | 222 | 230 | 241 | 232 | 266 |
| 12 | 238 | 234 | 243 | 260 | 259 | 258 | 285 |
| 11 | 282 | 285 | 297 | 291 | 314 | 293 | 299 |
| 10 | 343 | 335 | 347 | 351 | 357 | 348 | 319 |
| 9 | 374 | 394 | 408 | 416 | 403 | 400 | 368 |
| 8 | | | | | | | 438 |
| 7 | | | | | | | |
| 6 | | | | | | | |

ISOTHERM DEPTHS (M)

R/V RESEARCHER RES-STACS28-87

| XBT NO. | 111 | 114 | 115 | 116 | 117 | 118 | 119 |
|---|---|---|---|---|---|---|---|
| YEAR | 87 | 87 | 87 | 87 | 87 | 87 | 87 |
| MONTH | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| DAY (GMT) | 26 | 26 | 26 | 27 | 27 | 27 | 27 |
| TIME (GMT) | 1909 | 2114 | 2255 | 0116 | 0312 | 0531 | 0733 |
| LAT (N) | 10.92 | 11.10 | 11.45 | 11.72 | 11.89 | 12.26 | 12.52 |
| LON (W) | 56.20 | 56.72 | 57.07 | 57.49 | 57.92 | 58.35 | 56.79 |
| SURF T (C) | 29.1 | 29.1 | 29.1 | 28.9 | 28.8 | 28.8 | 28.9 |
| 30 | | | | | | | |
| 29 | 33 | 29 | 35 | | | | |
| 28 | 45 | 45 | 49 | 46 | 53 | 48 | 61 |
| 27 | 55 | 56 | 59 | 56 | 70 | 59 | 75 |
| 26 | 67 | 68 | 71 | 76 | 83 | 74 | 96 |
| 25 | 74 | 82 | 86 | 93 | 94 | 92 | 115 |
| 24 | 85 | 97 | 99 | 105 | 104 | 102 | 128 |
| 23 | 112 | 115 | 115 | 114 | 115 | 114 | 146 |
| 22 | 127 | 120 | 129 | 131 | 122 | 135 | 160 |
| 21 | 137 | 128 | 141 | 143 | 131 | 150 | 171 |
| 20 | 143 | 139 | 152 | 156 | 141 | 157 | 179 |
| 19 | 148 | 146 | 160 | 169 | 148 | 167 | 208 |
| 18 | 178 | 154 | 167 | 189 | 174 | 175 | 217 |
| 17 | 195 | 167 | 173 | 200 | 199 | 199 | 228 |
| 16 | 205 | 183 | 179 | 209 | 226 | 235 | 239 |
| 15 | 223 | 195 | 186 | 220 | 241 | 234 | 253 |
| 14 | 245 | 206 | 200 | 226 | 255 | 266 | 269 |
| 13 | 272 | 225 | 213 | 240 | 274 | 283 | 286 |
| 12 | 301 | 240 | 226 | 257 | 304 | 303 | 304 |
| 11 | 347 | 258 | 262 | 322 | 332 | 329 | 324 |
| 10 | 377 | 280 | 309 | 359 | | 374 | 371 |
| 9 | 409 | 372 | 328 | 402 | | 413 | 421 |
| 8 | | 434 | 407 | | | | |
| 7 | | | | | | | |
| 6 | | | | | | | |

ISOTHERM DEPTHS (M)

R/V RESEARCHER RES-STACS28-87

| XBT NO. | 120 | 121 | 122 | 123 | 124 | 125 | 126 |
|---|---|---|---|---|---|---|---|
| YEAR | 87 | 87 | 87 | 87 | 87 | 87 | 87 |
| MONTH | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| DAY (GMT) | 27 | 27 | 28 | 28 | 29 | 29 | 30 |
| TIME (GMT) | 0928 | 2349 | 1152 | 2348 | 1154 | 2339 | 1153 |
| LAT (N) | 12.79 | 15.67 | 16.65 | 18.78 | 20.51 | 22.27 | 23.93 |
| LON (W) | 59.21 | 61.47 | 61.77 | 65.75 | 68.39 | 71.06 | 73.73 |
| SURF T (C) | 28.9 | 29.1 | 29.4 | 29.4 | 29.4 | 29.4 | 29.3 |
| 30 | | | | | | | |
| 29 | | 31 | 53 | 49 | 50 | 48 | 41 |
| 28 | 48 | 54 | 64 | 55 | 55 | 55 | 45 |
| 27 | 62 | 65 | 73 | 64 | 65 | 62 | 55 |
| 26 | 81 | 80 | 85 | 76 | 75 | 74 | 67 |
| 25 | 98 | 98 | 109 | 105 | 94 | 100 | 81 |
| 24 | 119 | 112 | 134 | 131 | 116 | 331 | 95 |
| 23 | 140 | 132 | 150 | 140 | 138 | 152 | 115 |
| 22 | 159 | 143 | 176 | 167 | 161 | 187 | 145 |
| 21 | 170 | 156 | 189 | 189 | 190 | 220 | 171 |
| 20 | 186 | 176 | 208 | 210 | 234 | 255 | 193 |
| 19 | 202 | 186 | 221 | 249 | 261 | 287 | 252 |
| 18 | 224 | 202 | 243 | 281 | 344 | 341 | 364 |
| 17 | 243 | 222 | 272 | 314 | 381 | 396 | |
| 16 | 257 | 249 | 285 | 351 | 424 | | |
| 15 | 278 | 268 | 305 | 387 | | | |
| 14 | 295 | 292 | 335 | 423 | | | |
| 13 | 311 | 319 | 366 | | | | |
| 12 | 331 | 345 | 404 | | | | |
| 11 | 353 | 391 | 448 | | | | |
| 10 | 391 | 432 | | | | | |
| 9 | | | | | | | |
| 8 | | | | | | | |
| 7 | | | | | | | |
| 6 | | | | | | | |

ISOTHERM DEPTHS (m)

R/V RESEARCHER RES-STACS28-87

| XBT NO. | 127 | 128 |
|---|---|---|
| YEAR | 87 | 87 |
| MONTH | 9 | 10 |
| DAY (GMT) | 30 | 1 |
| TIME (GMT) | 2351 | 1200 |
| LAT (N) | 25.59 | 26.27 |
| LON (W) | 76.35 | 79.29 |
| SURF T (C) | 29.7 | 29.6 |
| 30 | | |
| 29 | 47 | 40 |
| 28 | 52 | 65 |
| 27 | 40 | 92 |
| 26 | 71 | 119 |
| 25 | 86 | 127 |
| 24 | 105 | 136 |
| 23 | 128 | 159 |
| 22 | 160 | 173 |
| 21 | 186 | 198 |
| 20 | 215 | 220 |
| 19 | 260 | 270 |
| 18 | 330 | 322 |
| 17 | 400 | 363 |
| 16 | | 377 |
| 15 | | |
| 14 | | |
| 13 | | |
| 12 | | |
| 11 | | |
| 10 | | |
| 9 | | |
| 8 | | |
| 7 | | |
| 6 | | |