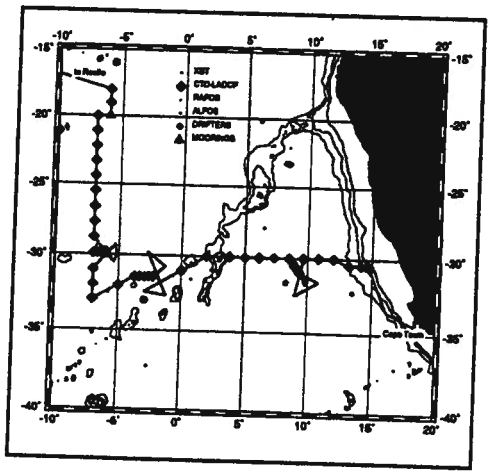
NOAA Data Report ERL AOML-33

# BENGUELA CURRENT EXPERIMENT:
# RV *Seward Johnson* SJ9705
# State Department Cruise No. 97-023
# Cape Town September 4, 1997 - Recife September 30, 1997



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# TABLE OF CONTENTS


List of Tables ..... iv

List of Figures ..... v

Overview ..... 1

Cruise Objectives ..... 1

Cruise Activities ..... 2

Data Processing ..... 2

*CTDO Data Processing* ..... 2

*Salinity Calibrations* ..... 3

*Oxygen Calibrations* ..... 3

*LADCP Data Processing* ..... 4

*XBT Data Processing* ..... 5

Preliminary Results ..... 5

*Rings* ..... 5

*The Sections along 30° S and 7° W* ..... 7

Cruise Participants ..... 8

Acknowledgments ..... 8

# LIST OF TABLES

1. Date and position of the 11 surface drifters launched during the cruise ..... 9

2. Date and position of the two ALFOS float deployments ..... 11

3. Date and position of the two sound source moorings ..... 13

4. Date and position of the 30 RAFOS float deployments ..... 19

5. Date and location of the 44 CTDO/LADCP casts obtained during the cruise ..... 19

6. Coefficients and offsets applied to the oxygen data ..... 19

7. Date and position of the XBT deployments ..... 21

# LIST OF FIGURES


1. Cruise track ..... 23

2. Schematic of the sound source moorings used during the Benguela Current Experiment ..... 25

3. Deployment positions of surface drifters, RAFOS and ALFOS floats and the two sound sources (M11 and.M12) ..... 27

4. Positions of the 44 CTDO-LADCP stations ..... 29

5. Regression fits of the sensor salinity data to the bottle data ..... 31

6. Plot of corrected residues of the sensor versus bottle data against pressure. The 5th order polynomial regression with error limits is shown ..... 33

7. Locations of the 254 XBTs launched during the cruise ..... 35

8. Vertical sections of temperature, salinity, oxygen, potential density, zonal and meridional velocity along a radial of Ring 1 ..... 37

9. Vertical sections of temperature, salinity, oxygen, potential density, zonal and meridional velocity along a radial of Ring 2 ..... 39

10. Vertical sections of temperature, salinity, oxygen, potential density, zonal and meridional velocity along a radial of Ring 3 ..... 41

11. Vertical sections of temperature, salinity, oxygen, potential density, zonal and meridional velocity along 30°S ..... 43

12. Vertical sections of temperature, salinity, oxygen, potential density, zonal and meridional velocity along 7°W ..... 47

# The Benguela Current Experiment

## Overview

The main objective of this program is to study the pathways, velocity, transport and variability of the Benguela Current and its extension with emphasis on tracking floats in the intermediate water. It is expected that the results of this program will make a significant contribution towards the understanding of inter-ocean (Indian to Atlantic) and inter-basin (South and North Atlantic) exchange of intermediate water, and its role in heat and mass exchanges. This program is a component of KAPEX (Cape of Good Hope Experiment) a joint US, German, and South African experiment. In March, 1997 a German cruise on the *Polarstern* led by W. Zenk and O. Boebel launched 35 RAFOS floats and five sound sources (including one of the US sources near 20°S 4°E) in the general area west and southwest of Cape Town. During August 1997 a US cruise on the R.V. *Seward Johnson* led by T. Rossby launched three sound sources east and southeast of Cape Town; fifty RAFOS floats will be launched in the Agulhas Current starting in November 1997. During the Benguela Current Experiment cruise on the R.V. *Seward Johnson* in September 32 RAFOS floats and two sound sources were launched in the general area west and northwest of Cape Town 1997. During KAPEX over 100 RAFOS floats and nine sound sources will measure ocean trajectories for the first time in the Agulhas Current, in its rings which enter the South Atlantic, and in the Benguela Current and its extension, which is the source of water moving northward through the Atlantic in the meridional overturning circulation cell. In addition temperature, salinity and velocity profiles will document the water mass and velocity structure of the Benguela Current, its extension and several Agulhas rings.

## Cruise Objectives

The objectives of the cruise were:

1) To track the Benguela Current (across 30°S) and its extension (across 7°W) by launching RAFOS floats at the intermediate water level;
2) To determine the initial conditions of the flow by performing sections (30°S and 7°W) of hydrographic observations (XBT, CTDO) and direct current measurements (LADCP, ADCP);
3) To perform intensive surveys of hydrographic (XBT, CTDO) and direct current measurements (RAFOS floats, surface drifters, LADCP, ADCP) of Agulhas rings to determine their water properties, translation, and contribution to the intermediate water transport.

The cruise track of the Benguela Current Experiment is displayed in Figure 1.

**Cruise Activities**

The main field work consisted of occupying 44 CTDO-LADCP stations to 2000 m depth along the nominal lines 30°S (15°E-7°W) and 7°W(18°S-33°S). Three Agulhas rings were identified by XBT surveys and radial sections of CTDO-LADCP stations were made on them. Thirty-two RAFOS acoustic floats and eleven surface drifters were launched at CTDO stations along 30°S and 7°W, and in the three Agulhas rings. Two sound sources were moored to provide acoustic tracking of the floats. A schematic of the sound source mooring is shown in Figure 2.

Two different types of freely drifting subsurface floats were deployed. Thirty acoustic RAFOS floats were ballasted for a depth of 700 m. These floats will surface after a period of 18 to 24 months and will transmit data to shore. Two acoustic ALFOS floats, also ballasted for 700 m, will rise to the sea surface monthly and transmit data. The acoustic floats will record times of arrival from the sound sources once per day for most floats and twice per day for the ring floats which have a lifetime of 18 months.

The location and date of deployment of the surface drifters, the ALFOS, the sound source moorings and the RAFOS are shown in Figure 3 and listed in Tables 1-4.

## Data Processing

### *CTDO Data Processing*

Forty four CTDO/24-bottle rosette stations were occupied. Station positions are listed in Table 5 and shown in Figure 4. CTDO data were collected with a Seabird 911*plus* CTD (AOML CTD #1 S/N 50619). This instrument provided pressure, temperature, conductivity and dissolved oxygen channels, and additionally measured secondary temperature, conductivity and oxygen sensors as a calibration check. The CTDO data acquisition, processing and control system consisted of the R.V. *Seward Johnson*'s Seabird data acquisition PC and deck unit, AOML's Seabird 911 *plus* (CTD #1), broad band LADCP, Seabird pylon and three acquisition and processing PCs. The PCs were equipped with Syquest disks, floppy drives and hard disks for data backups. After each cast, the acquired data was backed up to the CTDO processing computer and a Syquest disk.

The Seabird data processing software consists of a suite of programs running under DOS. Seasoft Version 4.225 was used to acquire and process the CTDO data in real-time, providing calibrated, processed data for interactive plotting and reporting during a cast. The 25 hz data from the CTDO were filtered, response corrected and averaged to a 2 hz time-series. Sensor correction and calibration models were applied to pressure, temperature, conductivity and oxygen. Rosette trip data were extracted from this time-series in response to trip initiation and confirmation signals. The calibrated

2 hz time-series data were stored on disk (as was the 25 hz raw data) and were available in real-time for reporting and graphical display. At the end of the cast, various consistency and calibration checks were performed, and a 1.0 db pressure series of the entire cast was generated and subsequently used for reports and plots.

After the cruise, calibration corrections were applied to salinities and oxygens. No further filtering was performed on salinity or temperature data. Data was extrapolated to the surface, and interpolated to 1 db intervals using cubic splines.

*Salinity Calibrations:*

For the salinity data, the error was ±0.002 salinity units against bottle salinities. Bottle salinity (b) was fitted to the CTDO data (c) to yield estimates ($b_1$) according to a least-squares linear regression. On the first fit, data outside one standard deviation were discarded [abs($b_1$-b)>s]. The data retained were fitted again to the bottle data. The results are shown below. The calibration plots for the salinity data are presented in Figure 5.

| | *First fit* | | *Second fit* |
|---|---|---|---|
| Slope: | 1.00156374 | Slope: | 1.00264877 |
| Intercept: | -0.0499090417 | Intercept: | -0.0874637501 |
| Std. Deviation: | 0.0091924204 | Std. Deviation: | 0.0020473598 |
| Npts: | 582 | Npts: | 566 |

*Oxygen Calibrations:*

For the oxygen data, the error was about ±0.1ml/l against Winkler titration of the bottle samples. The downcast data were adjusted for minimum deviation from Winkler values below 1050 db. The sensor data were filtered using 5 point median and 5 point triangular filters after processing with the Seasoft programs.

Residues (r equal to Sensor (s) - Winkler (b)), were fit to pressure (p) using a 5th order polynomial, P5(r,p). Values greater than 1.75 standard deviations from the fit were discarded, and another fit made, until there were no further discards. Deviations from the Winkler values in the deep part of the cast (> 1050 db) were minimized by adding an offset to each station. The final correction was applied to each station, i, as:

$$Ox = s - P5(r,p) + offset(i)$$

Data were then extrapolated to the surface and filtered using a 5-point median and a 5-point triangular filter to remove gross spiking.

The plot of corrected residues against pressure and the polynomial regression with error limits is shown in Figure 6. Table 6 presents the calibration and offsets for the oxygen data.

*LADCP Data Processing*

All the CTDO stations included LADCP measurements (Table 5, Figure 4).

Ocean velocity observations were taken on the SJ9705 cruise using two acoustic Doppler current profiler (ADCP) systems and accurate navigation data. The two systems are the hull-mounted ADCP and a lowered ADCP mounted on the rosette with the CTDO. The data were taken aboard the R.V. *Seward Johnson* to document the upper ocean horizontal velocity structure along the cruise track, and to measure vertical profiles of the horizontal velocity components at the individual hydrographic stations. The observations provide absolute velocity estimates including the ageostrophic component of the flow.

The hull-mounted ADCP is part of the ship's equipment aboard the R.V. *Seward Johnson.* The ADCP is a 150 kHz unit manufactured by RD Instruments. The instrument pings about once per second, and for most of the cruise the data were stored as 1.5-minute averages or ensembles. The user-exit program receives and stores the ADCP data along with both the P-code navigation data from AOML's Trimble receiver and the Ashtech GPS receiver, which accounts for pitch and roll. The P-code data are used as navigation for the ADCP processing. The ship's gyro-compass provides heading information for vector averaging the ADCP data over the ensembles. The user-exit program calculates and stores the heading offset based on the difference between the heading determination from the Ashtech receiver and from the ship gyro.

The second ADCP system is the lowered ADCP (LADCP), which was mounted to the rosette system with the CTDO. The LADCP yields vertical profiles of horizontal velocity components from near the ocean surface to near the bottom. The unit used was a broadband, self-contained 150 kHz system manufactured by RD Instruments. Four ping ensembles were recorded. The data from each instrument were transferred to a PC between casts. The vertical shear of horizontal velocity was obtained from each four ping ensemble. These shear estimates were vertically binned and averaged for each cast. By combining the measured velocity of the ocean with respect to the instrument, the measured vertical shear, and accurate shipboard navigation at the start and end of the station, absolute velocity profiles are obtained. Depth is obtained by integrating the vertical velocity component; a better estimate of the depth coordinate will be available after final processing of the data together with the CTDO profile data. The shipboard processing results in vertical profiles of u and v velocity components, from a depth of 35 meters to near the ocean bottom in 5 meter intervals.

AOML installed a Trimble P-code receiver for navigation, with data coming in once per second. These once-per-second data were stored for the entire cruise. The heading

estimate was used with the gyro to provide a heading correction for the ADCP ensembles. The Ashtech data were stored by the ADCP user-exit program along with the ADCP data.

After the cruise, the LADCP profiles were corrected by verifying the location of the ship from the GPS system and correcting the drift factor of the LADCP profiles.

### *XBT Data Processing*

XBT locations are shown in Figure 7 and their positions are listed in Table 7. Deployment procedures included noting the time, location, depth and thermosalinograph temperature and salinity and engine intake temperature. Data was acquired on an AOML supplied SEAS PC, using Mark12 software. XBT data files were periodically transferred to the processing computers for analysis and backup.

After the cruise, it was found that the coefficients used in the MK12 software were not the appropriate ones for the probes used; therefore the profiles were reprocessed with the new coefficients. The surface temperature values were compared to those of the ship's thermosalinograph and adjacent CTDO values, and a correction of 0.32 degrees applied to all the profiles. The profiles were then checked, the bad ones discarded and some of them despiked.

## Preliminary Results

### *Rings*

Three anticyclonic eddies were found and tentatively identified as retroflection rings shed from the Agulhas Current. The search for rings was facilitated by maps of altimetric sea surface height anomaly and upper layer thickness prepared before and during the cruise by G. Goni. The altimetry well resolved the anomalous height field of the surveyed region and indicated the probable position of eddies close to the nominal survey lines. The altimeter enabled the eddy survey component of the cruise to be accomplished efficiently in the minimum amount of time. Future analyses of altimetry will provide information about the rings' formation and early history. The rings were surveyed by XBTs and ADCP which provided a measure of their size and shape. Each ring showed a 200-300 m bowl-shaped depression in the main thermocline. Seven RAFOS floats and six surface drifters were launched in the rings in order to follow their paths, and to measure their rotation rate. A radial section of five CTDO-LADCP stations was made from the center to the outer edge of each ring to study the water mass characteristics and vertical structure of the velocity field (Figures 8, 9 and 10).

Preliminary results indicate that:

Ring 1, located near 31.0°S 9.4° E on September 9, is a typical Agulhas Ring in its first year after shedding, with a single thermostad near the surface and a simple depressed

central water thermocline. The 10°C isotherm reached 638 m at the ring center compared to 400 m outside the ring. The diameter of the 10°C isotherm at 500 m was approximately 200 km; the ring was oblong with the major axis 260 km long oriented in the NW-SE direction and the minor axis 150 km long. Ring 1 was located just south of the 30°S line and roughly 1000 km from the Agulhas ring formation region near 38°S, 17°E. We expect the ring to translate northwestward and across the Walvis Ridge. A region containing weak vertical gradients of temperature, salinity and oxygen was observed in the upper 300 m with characteristic values of 16.15°C, 35.59 psu, and 5.62 ml/l presumably formed by convective overturning during the winter of 1997.

Ring 2 was centered near 31.5°S 2.3°W on September 14. The 10°C isotherm reached 732 m at the center as compared to a background depth of around 450 m. This ring was 1900 km from its presumed formation site near 38°S 17°E and had already crossed over the Walvis Ridge. At a nominal translation rate of 5 km/day Ring 2 would have taken about a year to reach the observed location. Ring 2 is the largest of the three rings with a 350 km diameter of the 10°C at 500 m. A lens-shaped region at its center contained nearly homogenous water between 440 m and 600 m with properties of T, S and $O_2$ of 12.22°C, 35.09 psu, and 5.70 ml/l at 500 m (Figures 9). This layer appears to be relatively warm, salty and oxygen-rich compared to background water and is inferred to be the remnant of convective overturning during the winter of 1996. This layer is colder and deeper within the water column than what is typical for Agulhas rings which raises questions about the origin of Ring 2. Further analysis of altimetry products and a study of the water mass characteristics is necessary to determine its origin. Characteristic properties are 16.62°C, 35.70 psu, and 5.42 ml/l at a depth of 100 m.

Ring 3 was centered near 29.8°S 7.9°W on September 17, just east of the 7°W section (which intersected the western edge of the ring). The center of Ring 3 was located roughly 400 km northwest of the center of Ring 2 and on the extension of the line joining Ring 2 and 38°S 17°E. Ring 3 was 2300 km from its presumed formation site and at 5 km/day would have taken 14 months to reach its location. The 10°C isotherm reached 635 m in the ring center as compared to depths around 450 m outside the ring. The diameter of the 10°C isotherm at 500 m was roughly 240 km. Two lens-shaped areas of Ring 3 contained water with weak vertical gradients in T, S, and $O_2$ (Figures 10). The deepest extended from 320 m to 420 m and had values of 14.45°C, 35.46 psu, and 5.29 ml/l at 400 m which represent local maxima of the three properties.

LADCP velocity profiles measured near-surface maximum velocities of 40 cm/sec in Ring 1, 34 cm/sec in Ring 2, and 28 cm/sec in Ring 3 (Figures 8, 9 and 10). A subsurface velocity maximum was observed near 600 m in both Ring 2 (28 cm/sec) and Ring 3 (40 cm/sec), presumably related dynamically to the depression of the thermocline underneath the subsurface well-mixed layers. The 700 m RAFOS floats lie within this velocity maximum and should provide confirming information about it.

### *The Sections along 30°S and 7°W*

To study the characteristics and paths of the intermediate water and to provide the initial state for the floats, two sections of hydrographic and direct measurements of currents were obtained. The first section, along 30°S between 14°E and 7°W, was selected to provide continuity with the observations collected during the BEST (Benguela Sources and Transports) program. Results from BEST indicate that the main Benguela transport is confined between the Walvis Ridge and the South African coast at 30°S. The second section was chosen to measure the transport of the intermediate water by the Benguela Current extension upstream of the Mid-Atlantic ridge. The location was a compromise between this project's objectives and a desire to provide another realization of the WOCE line along 9°W.

The section along 30°S is dominated by the presence of Rings 1 and 2 (Figure 11). The vertical sections of T, S, and potential density do not show a pronounced slope from west to east which implies low geostrophic velocities.

The section along 7°W was originally planned to stop at 20°S. The measured slope of the isotherms indicated that the westward flow might extend northwards of 20°S and therefore the section was extended to 18°S. The presence of a westward flow is clearly indicated in the vertical sections of T, S, and potential density. Near 30°S, the section along 7°W is dominated by the presence of Ring 3 (Figure 12).

## Cruise Participants

| | | |
|---|---|---|
| 1. Silvia L. Garzoli | NOAA/AOML[1] | Co-chief Scientist |
| 2. Philip L. Richardson | WHOI | Co-chief Scientist |
| 3. Chris Duncombe Rae | SFRI[2] | Scientist |
| 4. David M. Fratantoni | WHOI | Scientist |
| 5. Jon Mantel | SFRI | Senior Technician |
| 6. Andreas Roubicek | NOAA/AOML | Research Assistant |
| 7. Paul Bouchard | WHOI | Engineer/Technician |
| 8. Paula Fratantoni | RSMAS/UM[3] | Graduate Student |
| 9. Christo Whittle | UCT[4] | Graduate Student |
| 10. Eleonore Esperandieu | WHOI | Watchstander (volunteer) |

1 On leave of absence from LDEO/Columbia University
2 SFRI: Sea Fisheries Research Institute, Cape Town, South Africa
3 Presently visiting investigator at WHOI
4 UCT: University of Cape Town

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# TABLE 1

## CTD/LADCP STATIONS

| CTD# | DATE | TIME | LAT | LON |
|---|---|---|---|---|
| 0 | 9/4/97 | 17:26:29 | 33° 32.40 S | 16° 9.67 E |
| 1 | 9/5/97 | 18:01:55 | 30° 26.03 S | 14° 42.37 E |
| 2 | 9/5/97 | 21:24:57 | 30° 26.03 S | 14° 9.97 E |
| 3 | 9/6/97 | 3:40:28 | 30° 26.03 S | 13° 9.97 E |
| 4 | 9/6/97 | 11:05:36 | 30° 0.07 S | 11° 59.93 E |
| 5 | 9/6/97 | 17:52:07 | 30° 0.07 S | 10° 49.92 E |
| 6 | 9/7/97 | 0:36:02 | 30° 0.07 S | 9° 40.13 E |
| 7 | 9/9/97 | 1:05:26 | 30° 58.73 S | 9° 20.22 E |
| 8 | 9/9/97 | 3:56:04 | 30° 49.80 S | 9° 12.83 E |
| 9 | 9/9/97 | 6:45:35 | 30° 42.30 S | 9° 7.02 E |
| 10 | 9/9/97 | 9:20:09 | 30° 31.73 S | 8° 57.97 E |
| 11 | 9/9/97 | 12:12:49 | 30° 18.00 S | 8° 47.52 E |
| 12 | 9/9/97 | 15:38:51 | 30° 0.12 S | 8° 30.00 E |
| 13 | 9/9/97 | 22:13:56 | 30° 0.00 S | 7° 20.22 E |
| 14 | 9/10/97 | 4:36:05 | 30° 0.00 S | 6° 9.83 E |
| 15 | 9/10/97 | 11:15:52 | 30° 0.12 S | 4° 59.88 E |
| 16 | 9/10/97 | 17:48:53 | 30° 0.00 S | 3° 50.10 E |
| 17 | 9/11/97 | 3:58:10 | 30° 0.00 S | 1° 59.93 E |
| 18 | 9/11/97 | 15:49:24 | 31° 0.00 S | 0° 0.07 E |
| 19 | 9/14/97 | 4:39:45 | 31° 26.88 S | 2° 16.38 W |
| 20 | 9/14/97 | 8:13:24 | 31° 26.93 S | 2° 35.40 W |
| 21 | 9/14/97 | 11:15:43 | 31° 27.53 S | 2° 54.90 W |
| 22 | 9/14/97 | 14:34:30 | 31° 28.08 S | 3° 18.97 W |
| 23 | 9/14/97 | 17:56:18 | 31° 27.90 S | 3° 43.02 W |
| 24 | 9/15/97 | 2:13:54 | 32° 3.00 S | 4° 59.93 W |
| 25 | 9/15/97 | 13:45:38 | 32° 59.93 S | 7° 0.00 W |
| 26 | 9/15/97 | 20:27:24 | 32° 0.00 S | 7° 0.00 W |
| 27 | 9/16/97 | 3:25:17 | 31° 0.00 S | 6° 59.93 W |
| 28 | 9/17/97 | 18:10:41 | 29° 46.92 S | 6° 5.03 W |
| 29 | 9/17/97 | 20:40:00 | 29° 48.48 S | 6° 16.50 W |
| 30 | 9/17/97 | 23:07:01 | 29° 49.68 S | 6° 27.72 W |
| 31 | 9/18/97 | 1:35:32 | 29° 51.48 S | 6° 41.47 W |

## TABLE 1 (cont.)

| CTD# | DATE | TIME | LAT | LON |
|---|---|---|---|---|
| 32 | 9/18/97 | 4:33:22 | 29° 54.00 S | 7° 0.00 W |
| 33 | 9/18/97 | 13:02:35 | 28° 47.93 S | 6° 59.93 W |
| 34 | 9/18/97 | 20:07:31 | 27° 42.07 S | 7° 0.00 W |
| 35 | 9/19/97 | 3:03:02 | 26° 38.28 S | 6° 59.77 W |
| 36 | 9/19/97 | 10:23:32 | 25° 30.12 S | 7° 0.00 W |
| 37 | 9/19/97 | 17:25:22 | 24° 24.07 S | 7° 0.00 W |
| 38 | 9/20/97 | 0:37:35 | 23° 17.93 S | 7° 0.00 W |
| 39 | 9/20/97 | 7:44:32 | 22° 12.07 S | 7° 0.07 W |
| 39b | 9/20/97 | 8:51:17 | 22° 12.07 S | 7° 0.07 W |
| 40 | 9/20/97 | 14:50:58 | 21° 6.00 S | 7° 0.00 W |
| 41 | 9/20/97 | 22:03:00 | 19° 59.93 S | 6° 59.93 W |
| 42 | 9/21/97 | 17:44:01 | 19° 0.00 S | 6° 0.00 W |
| 43 | 9/22/97 | 0:29:35 | 17° 59.97 S | 5° 59.97 W |

## TABLE 2

O2 CALIBRATION COEFFICIENTS AND OFFSETS

Last-fit coefficients:

| | |
|---|---|
| 5 | -4.4834e-16 |
| 4 | 2.57397e-12 |
| 3 | -4.96056e-09 |
| 2 | 3.25391e-06 |
| 1 | 0.00012642 |
| 0 | -0.358059 |

| Stn | Offset | Stn | Offset | Stn | Offset |
|---|---|---|---|---|---|
| 0 | 0.947465 | 15 | 0.676116 | 30 | 0.467692 |
| 1 | 0.889037* | 16 | 0.619516 | 31 | 0.297769 |
| 2 | 0.836501 | 17 | 0.647628 | 32 | 0.365576 |
| 3 | 0.753016 | 18 | 0.737724 | 33 | 0.615681 |
| 4 | 0.771056 | 19 | 0.696707 | 34 | 0.637621 |
| 5 | 0.745578 | 20 | 0.523106 | 35 | 0.688475 |
| 6 | 0.721421 | 21 | 0.540629 | 36 | 0.756621 |
| 7 | 0.965839 | 22 | 0.621265 | 37 | 0.784076 |
| 8 | 0.66475 | 23 | 0.525085 | 38 | 0.651959 |
| 9 | 0.644679 | 24 | 0.640853 | 39 | 0.76284 |
| 10 | 0.51395 | 25 | 0.642725 | 40 | 0.804894 |
| 11 | 0.465903 | 26 | 0.610718 | 41 | 0.703102 |
| 12 | 0.518568 | 27 | 0.612556 | 42 | 0.977132 |
| 13 | 0.710001 | 28 | 0.856423 | 43 | 0.634318 |
| 14 | 0.635408 | 29 | 0.550133 | | |

* (Deviation for entire cast minimized [cast only to 900m])

# TABLE 3

## XBT STATIONS

| SN# | DATE | TIME | LAT | LON |
|---|---|---|---|---|
| 5 | 9/6/97 | 1:27:05 | 30° 25.9 S | 13° 38.8 E |
| 6 | 9/6/97 | 8:16:22 | 30° 13.3 S | 12° 35.7 E |
| 8 | 9/6/97 | 15:08:09 | 29° 59.9 S | 11° 26.5 E |
| 9 | 9/6/97 | 22:05:28 | 30° 0.0 S | 10° 16.5 E |
| 10 | 9/6/97 | 23:09:11 | 29° 59.9 S | 10° 1.8 E |
| 11 | 9/7/97 | 3:02:17 | 30° 9.2 S | 9° 37.5 E |
| 12 | 9/7/97 | 4:00:19 | 30° 19.7 S | 9° 34.8 E |
| 13 | 9/7/97 | 5:03:31 | 30° 30.8 S | 9° 31.8 E |
| 14 | 9/7/97 | 5:08:43 | 30° 31.6 S | 9° 31.6 E |
| 15 | 9/7/97 | 6:03:07 | 30° 41.2 S | 9° 29.2 E |
| 16 | 9/7/97 | 6:58:15 | 30° 50.9 S | 9° 26.4 E |
| 17 | 9/7/97 | 8:00:34 | 31° 1.4 S | 9° 23.8 E |
| 18 | 9/7/97 | 9:00:42 | 31° 12.2 S | 9° 21.0 E |
| 19 | 9/7/97 | 10:02:46 | 31° 23.1 S | 9° 17.9 E |
| 20 | 9/7/97 | 10:06:42 | 31° 23.7 S | 9° 17.7 E |
| 21 | 9/7/97 | 10:11:34 | 31° 24.5 S | 9° 17.4 E |
| 22 | 9/7/97 | 11:00:50 | 31° 33.2 S | 9° 15.3 E |
| 23 | 9/7/97 | 11:04:42 | 31° 34.0 S | 9° 15.1 E |
| 24 | 9/7/97 | 12:02:33 | 31° 44.1 S | 9° 12.1 E |
| 25 | 9/7/97 | 12:58:13 | 31° 54.2 S | 9° 9.2 E |
| 26 | 9/7/97 | 13:07:21 | 31° 55.6 S | 9° 8.8 E |
| 27 | 9/7/97 | 14:01:31 | 32° 5.7 S | 9° 6.3 E |
| 28 | 9/7/97 | 15:00:31 | 32° 17.3 S | 9° 3.3 E |
| 29 | 9/7/97 | 16:03:02 | 32° 29.5 S | 9° 0.1 E |
| 30 | 9/7/97 | 17:03:10 | 32° 28.3 S | 9° 7.5 E |
| 31 | 9/7/97 | 17:59:55 | 32° 23.2 S | 9° 16.8 E |
| 32 | 9/7/97 | 18:04:00 | 32° 23.2 S | 9° 16.8 E |
| 33 | 9/7/97 | 20:03:30 | 32° 16.1 S | 9° 32.1 E |
| 34 | 9/7/97 | 20:08:05 | 32° 15.3 S | 9° 33.6 E |
| 36 | 9/7/97 | 20:12:18 | 32° 14.8 S | 9° 34.4 E |
| 37 | 9/7/97 | 20:20:51 | 32° 14.1 S | 9° 35.6 E |
| 38 | 9/7/97 | 20:24:01 | 32° 13.9 S | 9° 35.8 E |
| 39 | 9/7/97 | 21:23:54 | 32° 9.7 S | 9° 43.5 E |
| 40 | 9/7/97 | 21:28:33 | 32° 9.6 S | 9° 43.9 E |
| 41 | 9/7/97 | 21:40:08 | 32° 9.6 S | 9° 43.9 E |
| 42 | 9/7/97 | 22:09:06 | 32° 7.6 S | 9° 48.6 E |
| 43 | 9/7/97 | 23:12:11 | 32° 2.2 S | 9° 59.6 E |
| 44 | 9/8/97 | 0:08:05 | 31° 57.5 S | 10° 9.7 E |
| 45 | 9/8/97 | 1:39:55 | 31° 51.2 S | 10° 22.1 E |
| 46 | 9/8/97 | 3:04:57 | 31° 44.5 S | 10° 36.5 E |
| 47 | 9/8/97 | 4:06:58 | 31° 38.8 S | 10° 47.8 E |
| 48 | 9/8/97 | 5:01:49 | 31° 34.8 S | 10° 41.9 E |
| 49 | 9/8/97 | 5:07:28 | 31° 34.3 S | 10° 40.6 E |
| 50 | 9/8/97 | 5:14:28 | 31° 33.6 S | 10° 39.0 E |
| 51 | 9/8/97 | 6:01:50 | 31° 28.9 S | 10° 29.6 E |
| 52 | 9/8/97 | 7:03:21 | 31° 23.8 S | 10° 16.5 E |
| 53 | 9/8/97 | 8:01:18 | 31° 18.5 S | 10° 4.3 E |
| 54 | 9/8/97 | 8:05:11 | 31° 18.0 S | 10° 3.3 E |

## TABLE 3 (cont.)

| SN# | DATE | TIME | LAT | LON |
|---|---|---|---|---|
| 55 | 9/8/97 | 9:00:21 | 31° 13.4 S | 9° 51.5 E |
| 56 | 9/8/97 | 10:02:16 | 31° 8.1 S | 9° 39.1 E |
| 57 | 9/8/97 | 11:01:29 | 31° 2.6 S | 9° 26.9 E |
| 58 | 9/8/97 | 12:01:52 | 31° 9.9 S | 9° 27.8 E |
| 59 | 9/8/97 | 13:01:36 | 31° 19.3 S | 9° 32.3 E |
| 60 | 9/8/97 | 14:03:46 | 31° 29.1 S | 9° 37.9 E |
| 61 | 9/8/97 | 15:00:33 | 31° 38.1 S | 9° 42.3 E |
| 62 | 9/8/97 | 16:00:47 | 31° 47.1 S | 9° 48.0 E |
| 63 | 9/8/97 | 17:42:35 | 31° 33.0 S | 9° 59.4 E |
| 64 | 9/8/97 | 18:53:38 | 31° 23.9 S | 9° 49.4 E |
| 65 | 9/8/97 | 19:50:47 | 31° 16.0 S | 9° 40.1 E |
| 66 | 9/8/97 | 20:52:17 | 31° 7.5 S | 9° 30.5 E |
| 67 | 9/8/97 | 21:52:27 | 30° 58.8 S | 9° 20.4 E |
| 68 | 9/8/97 | 22:55:20 | 30° 50.0 S | 9° 10.1 E |
| 69 | 9/8/97 | 22:59:12 | 30° 49.4 S | 9° 9.4 E |
| 70 | 9/8/97 | 23:03:10 | 30° 49.0 S | 9° 9.0 E |
| 71 | 9/9/97 | 6:58:18 | 30° 42.2 S | 9° 6.9 E |
| 72 | 9/9/97 | 14:58:57 | 30° 6.0 S | 8° 35.8 E |
| 73 | 9/8/97 | 19:40:59 | 29° 59.9 S | 7° 55.9 E |
| 74 | 9/10/97 | 2:04:48 | 30° 0.1 S | 6° 45.8 E |
| 75 | 9/10/97 | 8:43:05 | 30° 0.0 S | 5° 35.6 E |
| 76 | 9/10/97 | 15:14:45 | 30° 0.0 S | 4° 25.7 E |
| 77 | 9/10/97 | 22:21:54 | 30° 0.0 S | 3° 13.2 E |
| 78 | 9/10/97 | 22:26:25 | 30° 0.0 S | 3° 12.2 E |
| 79 | 9/11/97 | 1:02:48 | 30° 0.0 S | 2° 37.1 E |
| 80 | 9/11/97 | 1:06:14 | 30° 0.0 S | 2° 36.4 E |
| 81 | 9/11/97 | 7:33:07 | 30° 11.2 S | 1° 38.0 E |
| 82 | 9/11/97 | 9:30:18 | 30° 23.0 S | 1° 13.9 E |
| 84 | 9/11/97 | 11:32:03 | 30° 35.0 S | 0° 50.1 E |
| 85 | 9/11/97 | 13:30:48 | 30° 46.8 S | 0° 26.4 E |
| 86 | 9/11/97 | 15:54:24 | 31° 0.0 S | 0° 0.1 E |
| 87 | 9/11/97 | 18:30:22 | 31° 5.8 S | 0° 11.8 W |
| 88 | 9/11/97 | 19:29:42 | 31° 11.6 S | 0° 23.2 W |
| 89 | 9/11/97 | 20:31:19 | 31° 17.6 S | 0° 35.2 W |
| 90 | 9/11/97 | 21:28:52 | 31° 23.0 S | 0° 46.1 W |
| 91 | 9/11/97 | 22:34:10 | 31° 29.1 S | 0° 57.4 W |
| 92 | 9/11/97 | 22:37:10 | 31° 29.4 S | 0° 58.5 W |
| 93 | 9/11/97 | 23:32:14 | 31° 34.5 S | 1° 8.6 W |
| 94 | 9/12/97 | 0:33:27 | 31° 39.9 S | 1° 19.6 W |
| 95 | 9/12/97 | 1:31:01 | 31° 44.8 S | 1° 30.0 W |
| 96 | 9/12/97 | 2:31:20 | 31° 50.4 S | 1° 40.7 W |
| 97 | 9/12/97 | 2:34:02 | 31° 50.7 S | 1° 41.3 W |
| 98 | 9/12/97 | 3:31:10 | 31° 55.7 S | 1° 51.0 W |
| 99 | 9/12/97 | 3:35:10 | 31° 56.1 S | 1° 51.9 W |
| 100 | 9/12/97 | 4:30:40 | 32° 0.7 S | 2° 1.5 W |
| 101 | 9/12/97 | 5:30:20 | 32° 6.3 S | 2° 12.1 W |
| 102 | 9/12/97 | 5:31:54 | 32° 6.5 S | 2° 12.6 W |
| 104 | 9/12/97 | 6:31:44 | 32° 11.6 S | 2° 22.6 W |
| 105 | 9/12/97 | 6:34:24 | 32° 11.6 S | 2° 22.6 W |
| 106 | 9/12/97 | 7:29:41 | 32° 16.9 S | 2° 33.3 W |

## TABLE 3 (cont.)

| SN# | DATE | TIME | LAT | LON |
|---|---|---|---|---|
| 107 | 9/12/97 | 8:30:54 | 32° 22.2 S | 2° 44.2 W |
| 108 | 9/12/97 | 9:32:37 | 32° 27.6 S | 2° 55.2 W |
| 109 | 9/12/97 | 10:30:02 | 32° 30.0 S | 2° 49.7 W |
| 110 | 9/12/97 | 10:32:57 | 32° 30.1 S | 2° 49.0 W |
| 111 | 9/12/97 | 11:29:24 | 32° 31.4 S | 2° 36.5 W |
| 112 | 9/12/97 | 12:30:58 | 32° 33.4 S | 2° 22.6 W |
| 113 | 9/12/97 | 13:29:28 | 32° 34.8 S | 2° 9.7 W |
| 114 | 9/12/97 | 13:31:07 | 32° 34.8 S | 2° 9.7 W |
| 115 | 9/12/97 | 14:28:38 | 32° 36.6 S | 1° 56.4 W |
| 116 | 9/12/97 | 15:31:11 | 32° 38.5 S | 1° 42.3 W |
| 117 | 9/12/97 | 16:31:25 | 32° 40.2 S | 1° 28.4 W |
| 118 | 9/12/97 | 17:29:04 | 32° 42.1 S | 1° 15.4 W |
| 119 | 9/12/97 | 18:31:18 | 32° 36.9 S | 1° 15.4 W |
| 120 | 9/12/97 | 19:28:45 | 32° 29.9 S | 1° 19.3 W |
| 121 | 9/12/97 | 19:33:28 | 32° 29.0 S | 1° 19.6 W |
| 122 | 9/12/97 | 20:28:12 | 32° 20.7 S | 1° 23.6 W |
| 123 | 9/12/97 | 20:32:25 | 32° 19.8 S | 1° 24.1 W |
| 124 | 9/12/97 | 21:30:53 | 32° 10.5 S | 1° 28.9 W |
| 125 | 9/12/97 | 21:34:16 | 32° 9.9 S | 1° 29.4 W |
| 126 | 9/12/97 | 22:32:45 | 32° 0.5 S | 1° 34.5 W |
| 127 | 9/12/97 | 22:34:38 | 32° 0.5 S | 1° 34.5 W |
| 128 | 9/12/97 | 23:31:32 | 31° 51.0 S | 1° 39.6 W |
| 129 | 9/13/97 | 0:33:30 | 31° 40.8 S | 1° 44.8 W |
| 130 | 9/13/97 | 1:31:54 | 31° 31.0 S | 1° 49.9 W |
| 131 | 9/13/97 | 2:30:43 | 31° 21.0 S | 1° 55.4 W |
| 132 | 9/13/97 | 3:29:22 | 31° 10.8 S | 2° 0.4 W |
| 133 | 9/13/97 | 4:31:10 | 31° 0.5 S | 2° 5.9 W |
| 134 | 9/13/97 | 5:30:51 | 30° 49.9 S | 2° 11.2 W |
| 135 | 9/13/97 | 6:30:29 | 30° 39.6 S | 2° 16.6 W |
| 136 | 9/13/97 | 7:30:48 | 30° 29.6 S | 2° 22.0 W |
| 137 | 9/13/97 | 8:30:50 | 30° 19.7 S | 2° 27.4 W |
| 138 | 9/13/97 | 8:32:57 | 30° 19.2 S | 2° 27.6 W |
| 139 | 9/13/97 | 9:29:38 | 30° 9.9 S | 2° 32.3 W |
| 140 | 9/13/97 | 10:30:27 | 29° 59.8 S | 2° 37.2 W |
| 141 | 9/13/97 | 11:29:52 | 29° 49.3 S | 2° 42.1 W |
| 143 | 9/13/97 | 11:32:59 | 29° 48.7 S | 2° 42.3 W |
| 144 | 9/13/97 | 12:59:17 | 29° 57.2 S | 2° 28.6 W |
| 145 | 9/13/97 | 14:31:20 | 30° 7.7 S | 2° 13.1 W |
| 146 | 9/13/97 | 16:01:46 | 30° 18.0 S | 1° 57.9 W |
| 147 | 9/13/97 | 17:30:29 | 30° 28.1 S | 1° 42.9 W |
| 148 | 9/13/97 | 19:16:58 | 30° 40.2 S | 1° 25.0 W |
| 149 | 9/13/97 | 19:59:06 | 30° 44.9 S | 1° 18.0 W |
| 150 | 9/13/97 | 21:00:29 | 30° 51.9 S | 1° 26.3 W |
| 151 | 9/13/97 | 22:00:15 | 30° 58.6 S | 1° 35.8 W |
| 152 | 9/13/97 | 22:59:06 | 31° 5.5 S | 1° 45.8 W |
| 153 | 9/13/97 | 23:59:55 | 31° 12.4 S | 1° 55.7 W |
| 156 | 9/14/97 | 1:01:41 | 31° 19.2 S | 2° 5.9 W |
| 157 | 9/14/97 | 2:00:18 | 31° 26.1 S | 2° 15.2 W |
| 158 | 9/14/97 | 2:01:39 | 31° 26.1 S | 2° 15.2 W |
| 159 | 9/14/97 | 2:06:46 | 31° 26.8 S | 2° 16.2 W |

## TABLE 3 (cont.)

| SN# | DATE | TIME | LAT | LON |
|---|---|---|---|---|
| 161 | 9/14/97 | 3:01:35 | 31° 32.8 S | 2° 50.0 W |
| 162 | 9/14/97 | 3:03:41 | 31° 33.4 S | 2° 25.2 W |
| 163 | 9/14/97 | 7:00:38 | 31° 26.6 S | 2° 20.7 W |
| 164 | 9/14/97 | 7:30:53 | 31° 26.7 S | 2° 27.4 W |
| 165 | 9/14/97 | 7:59:53 | 31° 26.8 S | 2° 33.5 W |
| 166 | 9/14/97 | 10:31:39 | 31° 27.4 S | 2° 45.4 W |
| 167 | 9/14/97 | 11:28:12 | 31° 27.5 S | 2° 54.9 W |
| 168 | 9/14/97 | 13:31:16 | 31° 28.0 S | 3° 4.9 W |
| 169 | 9/14/97 | 14:48:46 | 31° 28.2 S | 3° 19.0 W |
| 170 | 9/14/97 | 17:00:55 | 31° 28.7 S | 3° 31.6 W |
| 171 | 9/14/97 | 18:06:46 | 31° 28.0 S | 3° 43.0 W |
| 172 | 9/14/97 | 20:30:49 | 31° 32.4 S | 3° 53.5 W |
| 173 | 9/14/97 | 21:32:40 | 31° 38.0 S | 4° 5.5 W |
| 174 | 9/14/97 | 22:31:01 | 31° 43.1 S | 4° 16.9 W |
| 175 | 9/15/97 | 0:31:02 | 31° 53.8 S | 4° 40.4 W |
| 176 | 9/15/97 | 5:00:31 | 32° 9.9 S | 5° 14.7 W |
| 177 | 9/15/97 | 7:00:38 | 32° 21.4 S | 5° 38.5 W |
| 178 | 9/15/97 | 9:00:28 | 32° 32.5 S | 6° 2.4 W |
| 179 | 9/15/97 | 11:01:05 | 32° 44.4 S | 6° 26.1 W |
| 180 | 9/15/97 | 12:30:57 | 32° 52.5 S | 6° 44.8 W |
| 181 | 9/15/97 | 14:08:02 | 32° 59.6 S | 7° 0.2 W |
| 182 | 9/15/97 | 16:01:03 | 32° 49.4 S | 7° 0.2 W |
| 183 | 9/15/97 | 17:04:02 | 32° 37.6 S | 7° 0.0 W |
| 184 | 9/15/97 | 18:01:27 | 32° 26.8 S | 7° 0.0 W |
| 185 | 9/15/97 | 19:02:44 | 32° 15.3 S | 7° 0.0 W |
| 186 | 9/15/97 | 20:03:30 | 32° 3.9 S | 7° 0.0 W |
| 187 | 9/15/97 | 23:02:49 | 31° 48.3 S | 7° 0.1 W |
| 188 | 9/16/97 | 0:03:00 | 31° 36.8 S | 7° 0.0 W |
| 189 | 9/16/97 | 0:08:01 | 31° 36.0 S | 7° 0.1 W |
| 190 | 9/16/97 | 0:10:04 | 31° 35.5 S | 7° 0.0 W |
| 191 | 9/16/97 | 1:05:10 | 31° 25.1 S | 6° 59.9 W |
| 192 | 9/16/97 | 1:07:18 | 31° 25.1 S | 6° 59.9 W |
| 193 | 9/16/97 | 2:02:49 | 31° 14.5 S | 7° 0.1 W |
| 194 | 9/16/97 | 6:00:41 | 30° 50.5 S | 6° 52.7 W |
| 195 | 9/16/97 | 6:02:09 | 30° 50.5 S | 6° 52.7 W |
| 196 | 9/16/97 | 6:59:52 | 30° 42.8 S | 6° 44.4 W |
| 197 | 9/16/97 | 8:06:33 | 30° 33.5 S | 6° 34.7 W |
| 198 | 9/16/97 | 9:00:46 | 30° 26.4 S | 6° 27.5 W |
| 200 | 9/16/97 | 10:04:12 | 30° 17.9 S | 6° 18.6 W |
| 201 | 9/16/97 | 10:05:46 | 30° 17.3 S | 6° 18.0 W |
| 202 | 9/16/97 | 11:00:53 | 30° 9.7 S | 6° 10.1 W |
| 203 | 9/16/97 | 11:02:41 | 30° 9.3 S | 6° 9.8 W |
| 204 | 9/16/97 | 12:00:27 | 30° 1.3 S | 6° 1.6 W |
| 205 | 9/16/97 | 20:03:57 | 29° 52.7 S | 5° 51.3 W |
| 206 | 9/16/97 | 21:01:50 | 29° 44.2 S | 5° 43.1 W |
| 207 | 9/16/97 | 22:01:41 | 29° 35.8 S | 5° 34.6 W |
| 208 | 9/16/97 | 22:59:54 | 29° 27.2 S | 5° 26.4 W |
| 209 | 9/17/97 | 0:00:06 | 29° 18.3 S | 5° 17.9 W |
| 210 | 9/17/97 | 1:01:45 | 29° 24.7 S | 5° 14.2 W |
| 211 | 9/17/97 | 2:00:11 | 29° 35.3 S | 5° 13.0 W |

## TABLE 3 (cont.)

| SN# | DATE | TIME | LAT | LON |
|---|---|---|---|---|
| 212 | 9/17/97 | 3:00:53 | 29° 46.2 S | 5° 11.2 W |
| 213 | 9/17/97 | 4:01:09 | 29° 57.2 S | 5° 9.5 W |
| 214 | 9/17/97 | 5:00:41 | 30° 7.8 S | 5° 13.1 W |
| 215 | 9/17/97 | 6:00:32 | 30° 18.3 S | 5° 17.9 W |
| 216 | 9/17/97 | 7:01:04 | 30° 28.7 S | 5° 23.0 W |
| 217 | 9/17/97 | 8:00:45 | 30° 22.9 S | 5° 30.9 W |
| 218 | 9/17/97 | 9:00:51 | 30° 14.1 S | 5° 39.2 W |
| 219 | 9/17/97 | 10:01:21 | 30° 5.1 S | 5° 47.3 W |
| 220 | 9/17/97 | 11:01:42 | 29° 56.0 S | 5° 55.8 W |
| 221 | 9/17/97 | 12:01:21 | 29° 47.1 S | 6° 4.7 W |
| 222 | 9/17/97 | 13:01:19 | 29° 38.3 S | 6° 13.7 W |
| 223 | 9/17/97 | 14:00:47 | 29° 30.9 S | 6° 21.3 W |
| 224 | 9/17/97 | 15:01:41 | 29° 22.0 S | 6° 30.3 W |
| 225 | 9/17/97 | 18:12:25 | 29° 46.9 S | 6° 5.0 W |
| 226 | 9/18/97 | 8:27:54 | 29° 32.3 S | 6° 50.2 W |
| 227 | 9/18/97 | 10:35:32 | 29° 9.7 S | 6° 40.3 W |
| 228 | 9/18/97 | 11:32:24 | 29° 1.3 S | 6° 47.3 W |
| 229 | 9/18/97 | 12:32:12 | 28° 52.7 S | 6° 55.7 W |
| 230 | 9/18/97 | 16:15:29 | 28° 27.1 S | 7° 0.0 W |
| 231 | 9/18/97 | 16:20:01 | 28° 26.3 S | 7° 0.0 W |
| 232 | 9/18/97 | 16:23:35 | 28° 25.6 S | 7° 0.0 W |
| 233 | 9/18/97 | 18:20:20 | 28° 3.2 S | 7° 0.0 W |
| 234 | 9/18/97 | 23:19:36 | 27° 20.7 S | 7° 0.1 W |
| 235 | 9/19/97 | 1:15:51 | 26° 58.6 S | 7° 0.0 W |
| 236 | 9/19/97 | 6:32:29 | 26° 15.0 S | 7° 0.0 W |
| 237 | 9/19/97 | 8:32:28 | 25° 52.1 S | 7° 0.0 W |
| 238 | 9/19/97 | 13:40:04 | 25° 8.0 S | 7° 0.1 W |
| 239 | 9/19/97 | 15:28:13 | 24° 46.9 S | 7° 0.1 W |
| 240 | 9/19/97 | 20:48:48 | 24° 2.0 S | 7° 0.0 W |
| 241 | 9/19/97 | 22:51:50 | 23° 39.2 S | 7° 0.0 W |
| 243 | 9/19/97 | 22:56:46 | 23° 38.2 S | 7° 0.0 W |
| 244 | 9/20/97 | 3:56:55 | 22° 56.1 S | 7° 0.2 W |
| 245 | 9/20/97 | 5:53:03 | 22° 33.9 S | 7° 0.0 W |
| 246 | 9/20/97 | 10:59:29 | 21° 50.5 S | 7° 0.0 W |
| 247 | 9/20/97 | 12:56:06 | 21° 28.5 S | 7° 0.0 W |
| 248 | 9/20/97 | 18:32:37 | 20° 40.2 S | 7° 0.0 W |
| 249 | 9/20/97 | 20:12:18 | 20° 21.2 S | 7° 0.1 W |
| 250 | 9/21/97 | 12:43:32 | 19° 56.5 S | 6° 2.7 W |
| 251 | 9/21/97 | 15:11:27 | 19° 30.6 S | 5° 59.9 W |
| 252 | 9/21/97 | 16:44:21 | 19° 12.4 S | 6° 0.1 W |
| 253 | 9/21/97 | 21:09:04 | 18° 38.4 S | 6° 0.0 W |
| 254 | 9/21/97 | 22:45:50 | 18° 20.3 S | 5° 59.9 W |

## TABLE 4

## SURFACE DRIFTER DEPLOYMENTS

| # | DATE | TIME | LAT | LON | ID # |
|---|---|---|---|---|---|
| 1 | 9/9/97 | 2:31 | 30° 58.55 S | 9° 20.24 E | 19845 |
| 2 | 9/9/97 | 4:42 | 30° 49.75 S | 9° 12.67 E | 26429 |
| 3 | 9/9/97 | 7:10 | 30° 42.22 S | 9° 6.76 E | 19841 |
| 4 | 9/9/97 | 15:40 | 30° 0.00 S | 8° 29.93 E | 19847 |
| 5 | 9/10/97 | 18:02 | 29° 59.95 S | 3° 49.98 E | 19849 |
| 6 | 9/14/97 | 4:54 | 31° 26.92 S | 2° 16.20 W | 19843 |
| 7 | 9/15/97 | 8:32 | 31° 27.12 S | 2° 35.24 W | 19846 |
| 8 | 9/15/97 | 13:59 | 32° 59.65 S | 7° 0.16 W | 19840 |
| 9 | 9/17/97 | 18:25 | 29° 46.90 S | 6° 5.26 W | 19844 |
| 10 | 9/19/97 | 3:18 | 26° 37.91 S | 6° 59.57 W | 19842 |
| 11 | 9/20/97 | 0:47 | 23° 17.95 S | 6° 59.94 W | 26430 |

## TABLE 5

## ALFOS FLOAT POSITIONS

| FLOAT # | DATE | TIME | LAT | LON | CTD# |
|---|---|---|---|---|---|
| H-101 (236) | 9/9/97 | 15:47 | 29° 59.95 S | 8° 29.95 E | 12 |
| H-102 (64) | 9/19/97 | 2:58 | 26° 38.20 S | 6° 59.70 W | 35 |

## TABLE 6

## SOUND SOURCE MOORING POSITIONS

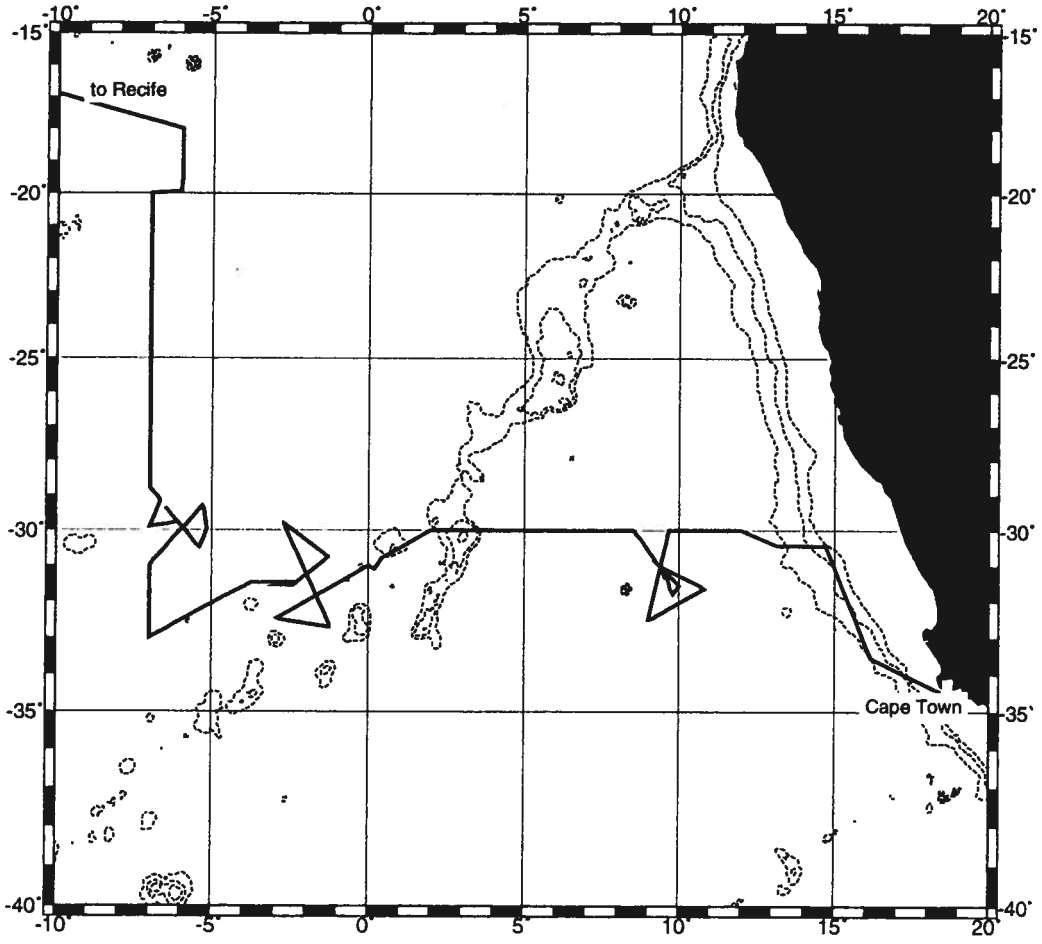
| # | DATE | TIME | LAT | LON | Water dpth | Srce dpth | TT min | Sound srce |
|---|---|---|---|---|---|---|---|---|
| M11 | 9/16/97 | 16:48 | 29° 59.14 S | 5° 58.66 W | 4250 | 800 | 1:30, 13:30 | 28 |
| M12 | 9/21/97 | 10:53 | 20° 0.58 S | 6° 1.43 W | 4100 | 800 | 1:00, 13:30 | 27 |

# TABLE 7

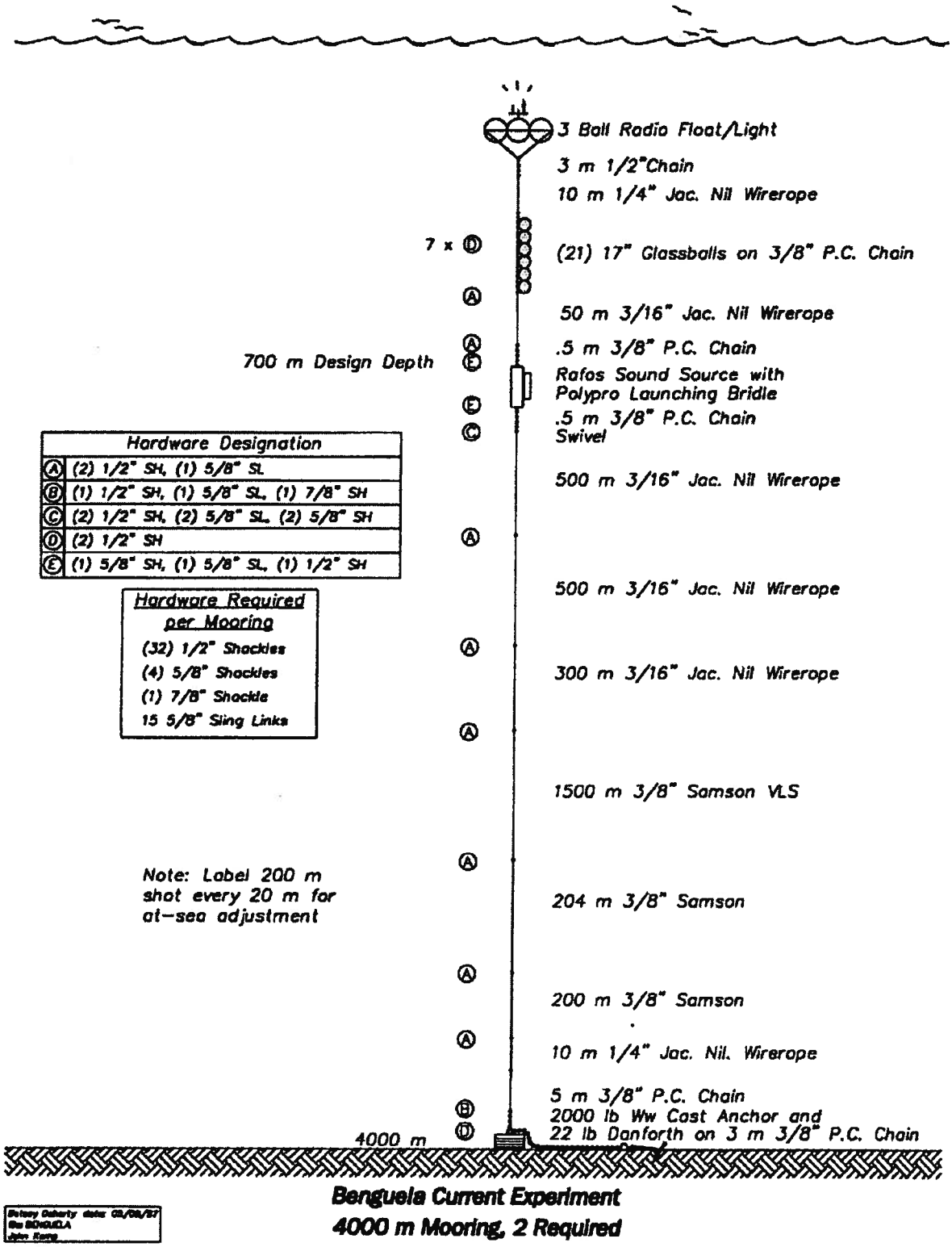
## RAFOS FLOAT LAUNCH POSITIONS

| FLT# | DATE | TIME | LAT | LON | Duration (days) | CTD# |
|---|---|---|---|---|---|---|
| 375 | 9/14/97 | 4:52 | 31° 26.92 S | 2° 16.20 W | 540 | 19 |
| 376 | 9/14/97 | 8:52 | 31° 26.97S | 2° 35.28 W | 540 | 20 |
| 383 | 9/9/97 | 4:50 | 30° 49.81 S | 9° 12.74 E | 540 | 8 |
| 384 | 9/11/97 | 4:08 | 30° 0.21 S | 1° 59.88 E | 540 | 17 |
| 385 | 9/9/97 | 7:13 | 30° 42.22 S | 9° 6.76 E | 540 | 9 |
| 386 | 9/15/97 | 2:24 | 32° 2.90 S | 4° 59.70 W | 540 | 24 |
| 387 | 9/17/97 | 18:20 | 29° 46.88 S | 6° 5.19 W | 540 | 28 |
| 388 | 9/10/97 | 18:00 | 29° 59.99 S | 3° 49.95 E | 540 | 16 |
| 390 | 9/9/97 | 2:40 | 30° 58.55 S | 9° 20.24 E | 540 | 7 |
| 391 | 9/19/97 | 17:34 | 24° 23.97 S | 6° 59.96 W | 720 | 37 |
| 392 | 9/5/97 | 22:57 | 30° 25.19 S | 14° 9.64 E | 720 | 2 |
| 393 | 9/20/97 | 7:52 | 22° 12.00 S | 7° 0.06 W | 720 | 39 |
| 394 | 9/11/97 | 16:01 | 30° 59.93 S | 0° 0.12 W | 720 | 18 |
| 395 | 9/9/97 | 22:23 | 29° 59.98 S | 7° 19.97 E | 720 | 13 |
| 396 | 9/10/97 | 11:24 | 30° 0.13 S | 4° 59.78 E | 720 | 15 |
| 397 | 9/7/97 | 2:03 | 30° 0.71 S | 9° 39.59 E | 720 | 6 |
| 398 | 9/6/97 | 19:30 | 29° 59.11 S | 10° 48.72 E | 720 | 5 |
| 399 | 9/17/97 | 20:57 | 29° 48.77 S | 6° 6.48 W | 720 | 29 |
| 401 | 9/18/97 | 13:12 | 28° 48.01 S | 7° 0.08 W | 720 | 33 |
| 402 | 9/6/97 | 12:34 | 29° 59.15 S | 11° 59.14 E | 720 | 4 |
| 403 | 9/18/97 | 20:14 | 27° 42.06 S | 6° 59.95 W | 720 | 34 |
| 404 | 9/19/97 | 10:33 | 25° 29.91 S | 6° 59.91 W | 720 | 36 |
| 405 | 9/20/97 | 22:14 | 19° 59.94 S | 7° 0.02 W | 720 | 41 |
| 406 | 9/10/97 | 4:54 | 30° 0.01 S | 6° 9.68 E | 720 | 14 |
| 407 | 9/6/97 | 5:30 | 30° 25.64 S | 13° 8.87 E | 720 | 3 |
| 408 | 9/15/97 | 13:55 | 32° 59.68 S | 7° 0.60 W | 720 | 25 |
| 409 | 9/20/97 | 14:59 | 21° 5.85 S | 7° 0.00 W | 720 | 40 |
| 410 | 9/20/97 | 0:45 | 23° 17.97 S | 6° 59.96 W | 720 | 38 |
| 411 | 9/15/97 | 20:45 | 31° 59.82 S | 6° 59.88 W | 720 | 26 |
| 412 | 9/16/97 | 3:34 | 30° 59.54 S | 6° 59.97 W | 720 | 27 |

# Figure 1

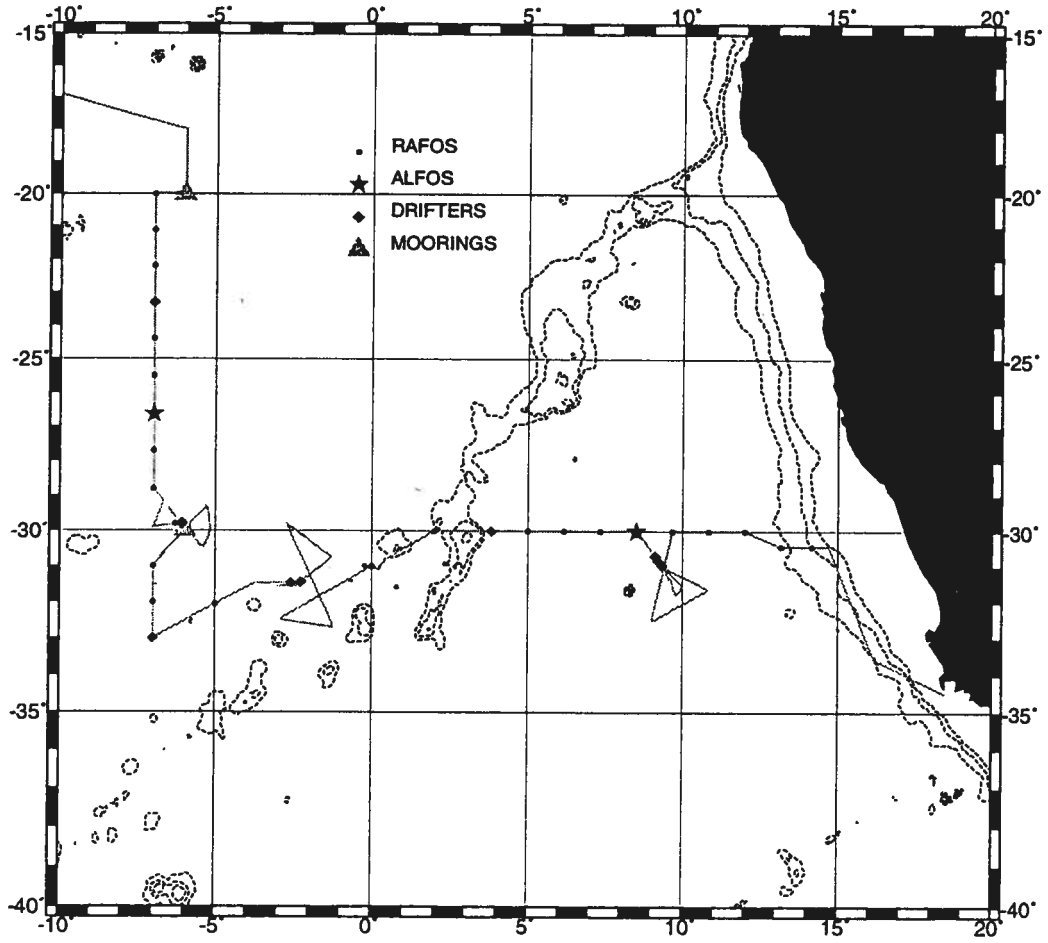


# Figure 2

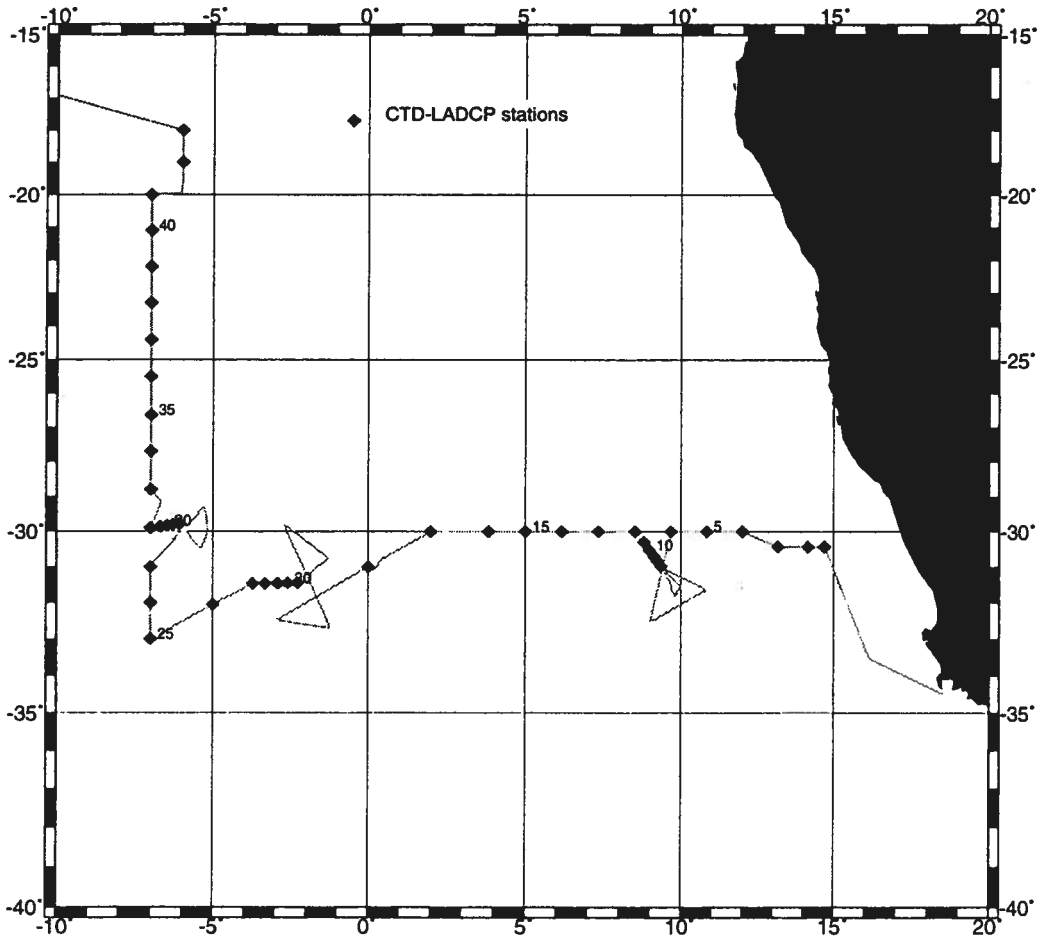



**Benguela Current Experiment**
**4000 m Mooring, 2 Required**

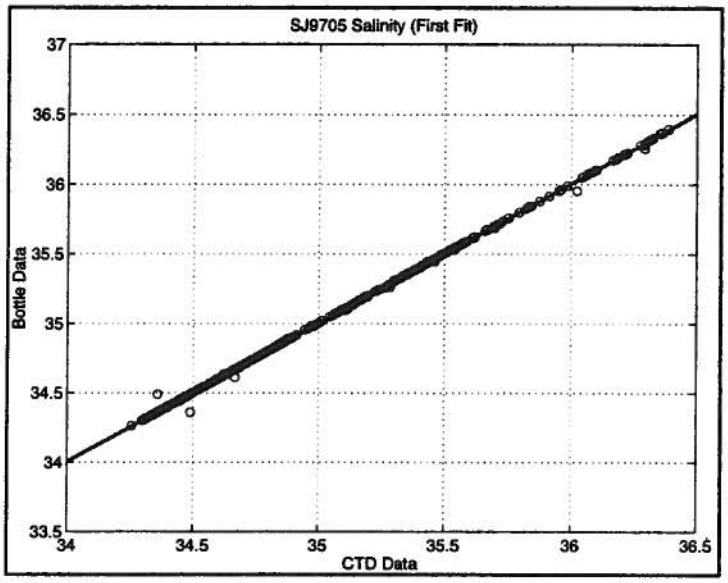
# Figure 3

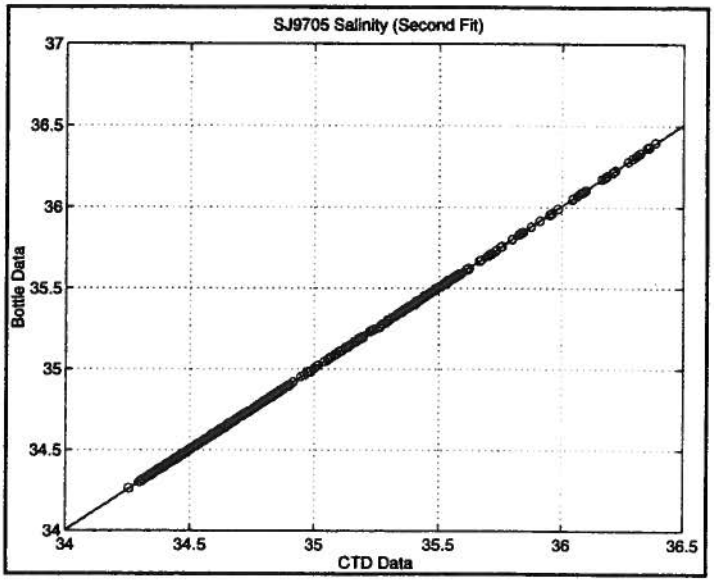


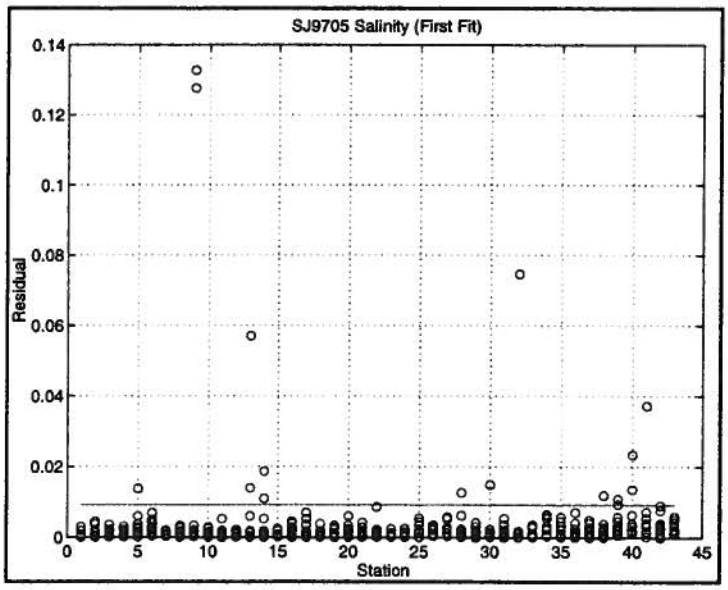
# Figure 4

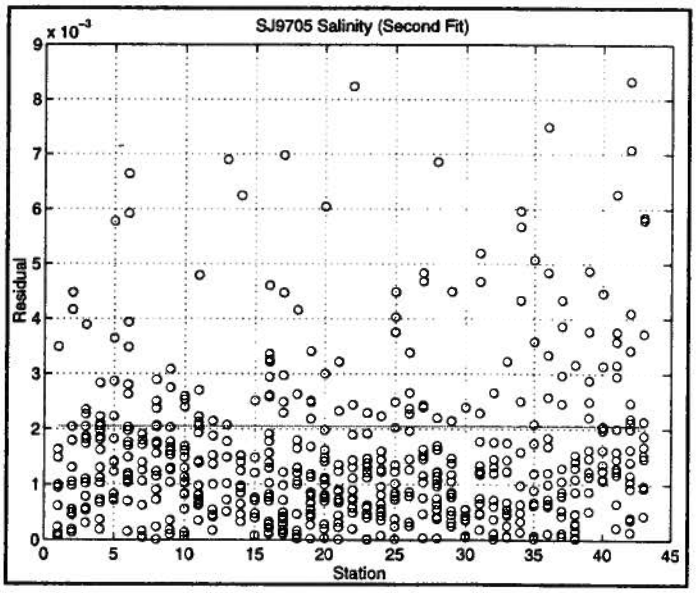

CTD-LADCP stations
-10°
-5°
0°
5°
10°
15°
20°
-15°
-20°
-25°
-30°
-35°
-40°
40
35
30
25
20
15
10
5

# Figure 5

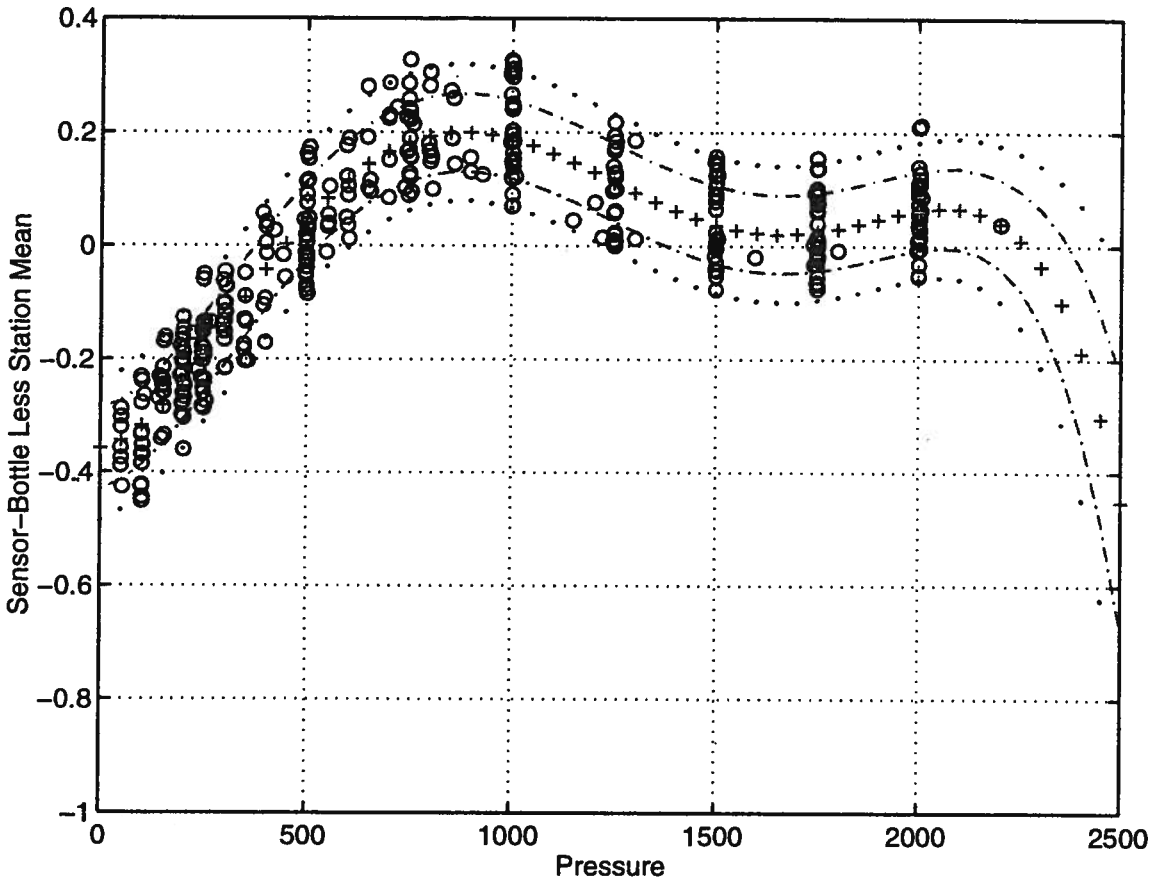

SJ9705 Salinity (First Fit)
Bottle Data
CTD Data
37
36.5
36
35.5
35
34.5
34
33.5
34
34.5
35
35.5
36
36.5


SJ9705 Salinity (Second Fit)
Bottle Data
CTD Data
37
36.5
36
35.5
35
34.5
34
34
34.5
35
35.5
36
36.5

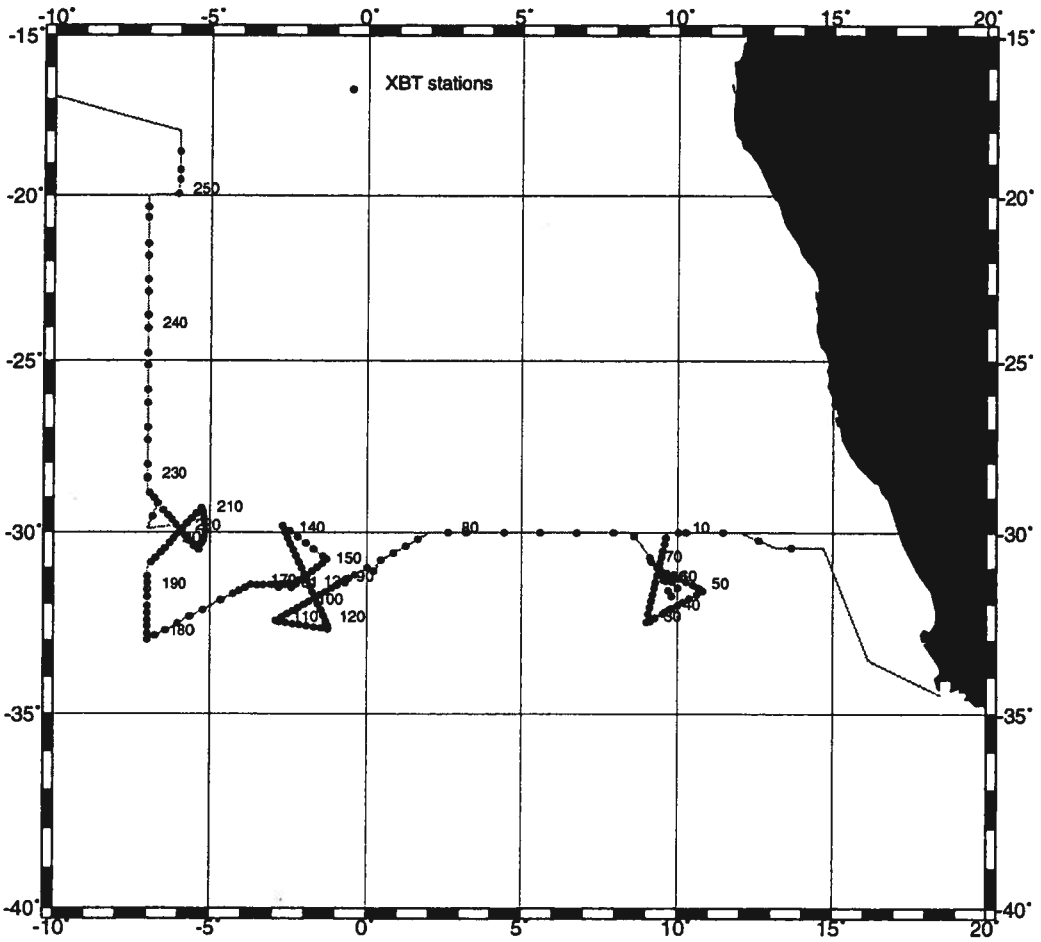

SJ9705 Salinity (First Fit)
Residual
Station
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
0
5
10
15
20
25
30
35
40
45


SJ9705 Salinity (Second Fit)
x 10^-3
Residual
Station
9
8
7
6
5
4
3
2
1
0
0
5
10
15
20
25
30
35
40
45

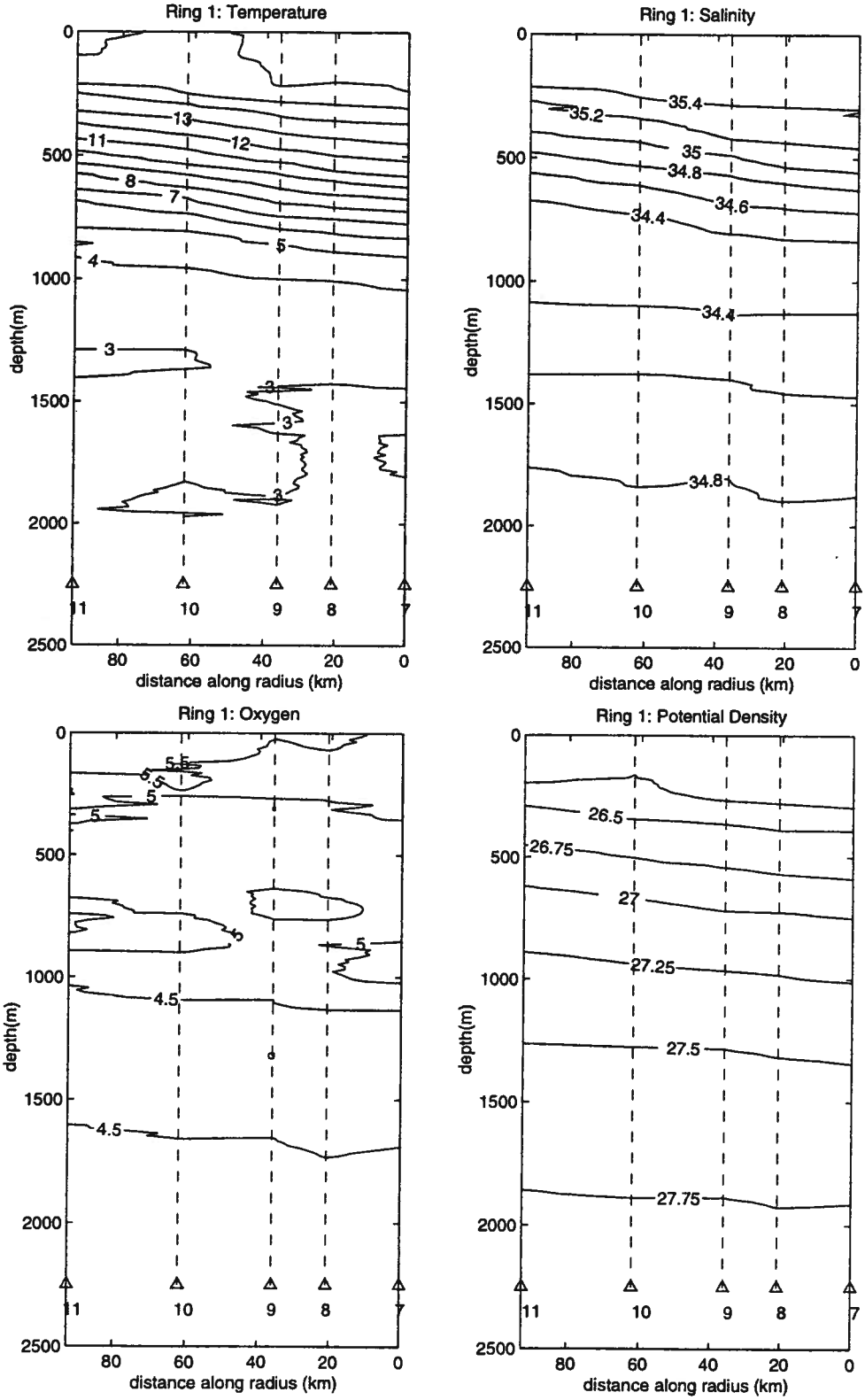
# Figure 6


0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
0
500
1000
1500
2000
2500
Sensor−Bottle Less Station Mean
Pressure

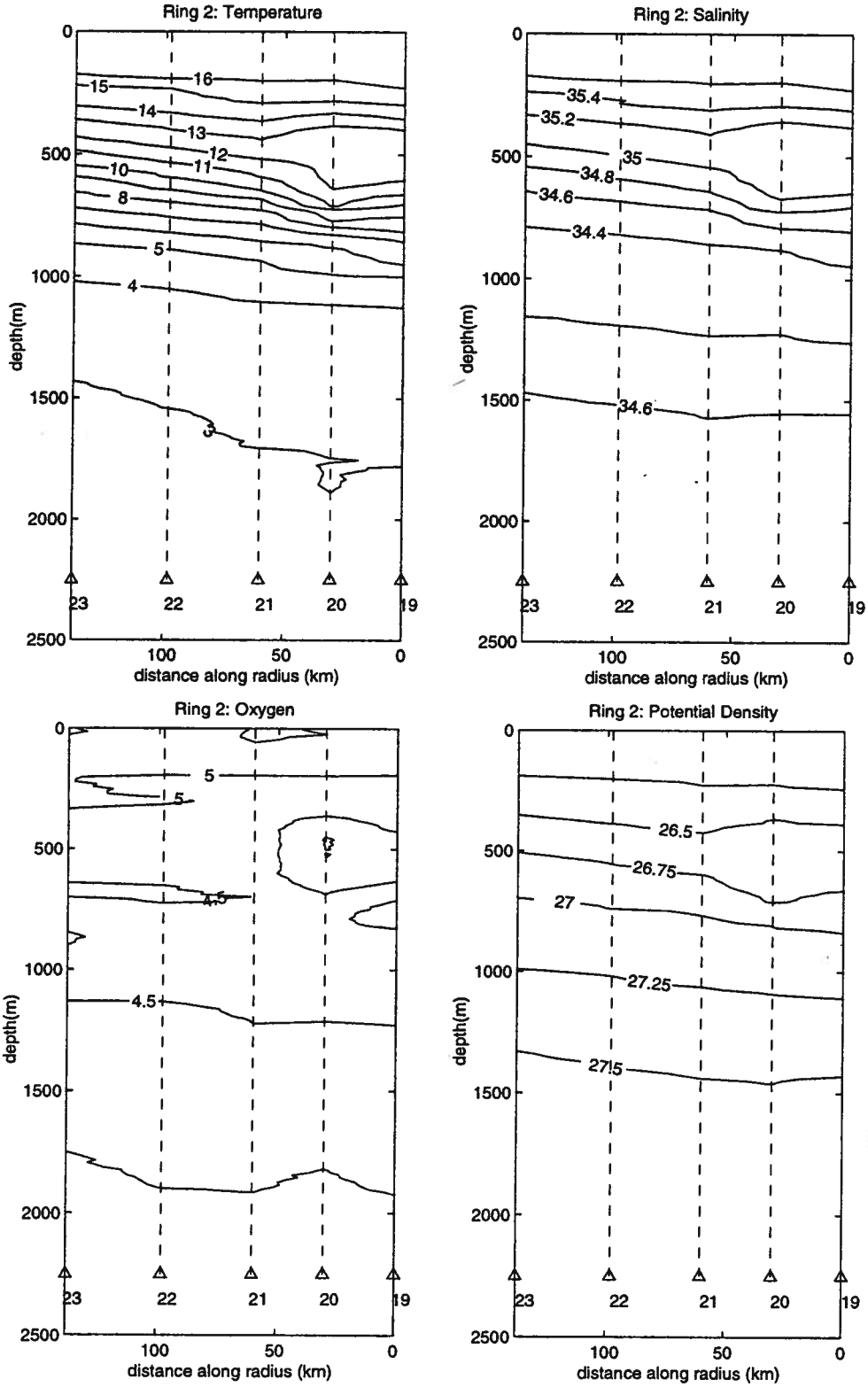
# Figure 7


XBT stations
-10°
-5°
0°
5°
10°
15°
20°
-15°
-20°
-25°
-30°
-35°
-40°
250
240
230
210
220
190
180
140
150
170
130
90
100
110
120
80
10
70
60
50
40
30

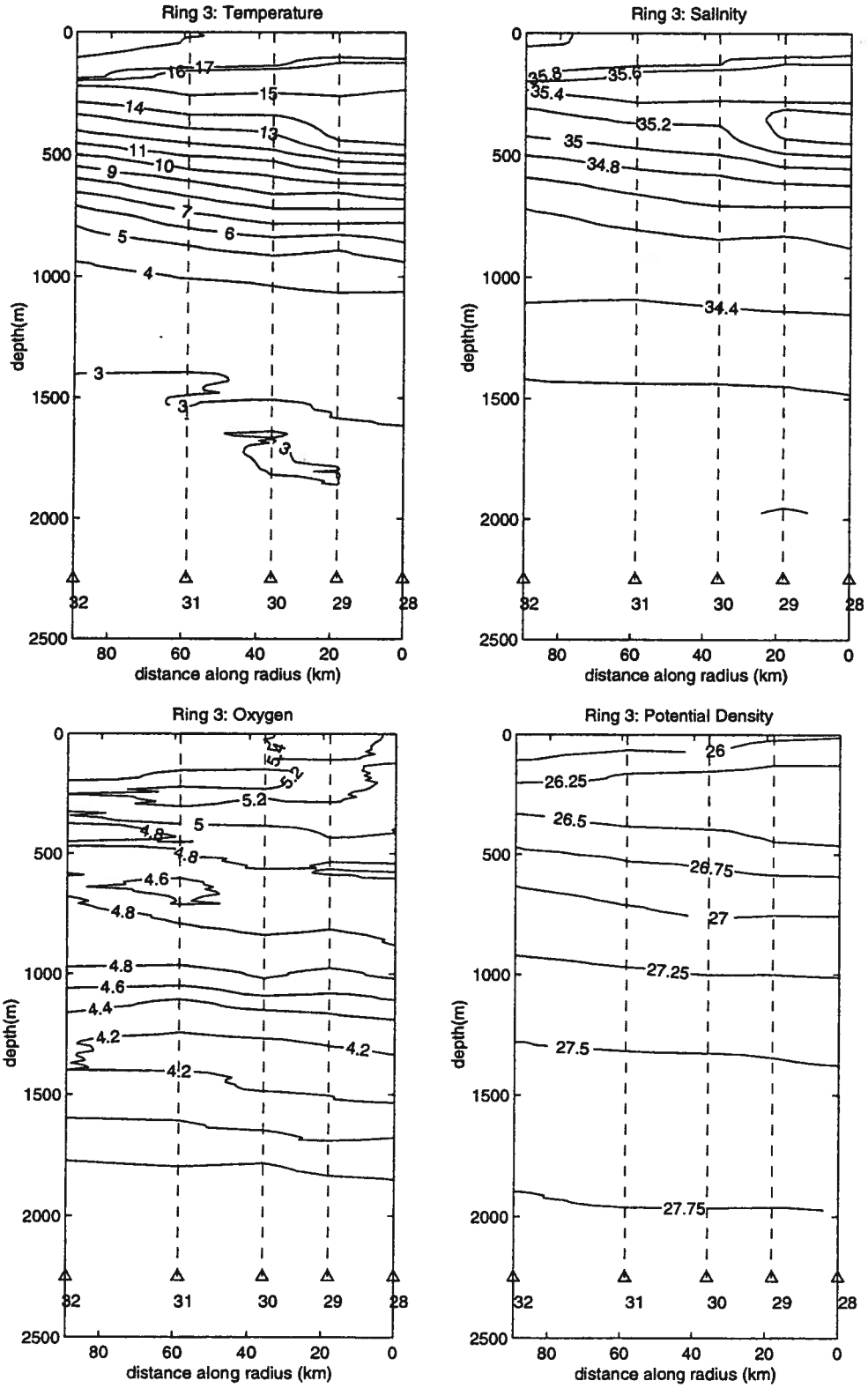
# Figure 8


Ring 1: Temperature
Ring 1: Salinity
Ring 1: Oxygen
Ring 1: Potential Density
depth(m)
distance along radius (km)
0
500
1000
1500
2000
2500
80
60
40
20
0
11
10
9
8
7
13
12
11
8
7
5
4
3
35.4
35.2
35
34.8
34.6
34.4
34.4
34.8
5.5
5
4.5
26.5
26.75
27
27.25
27.5
27.75

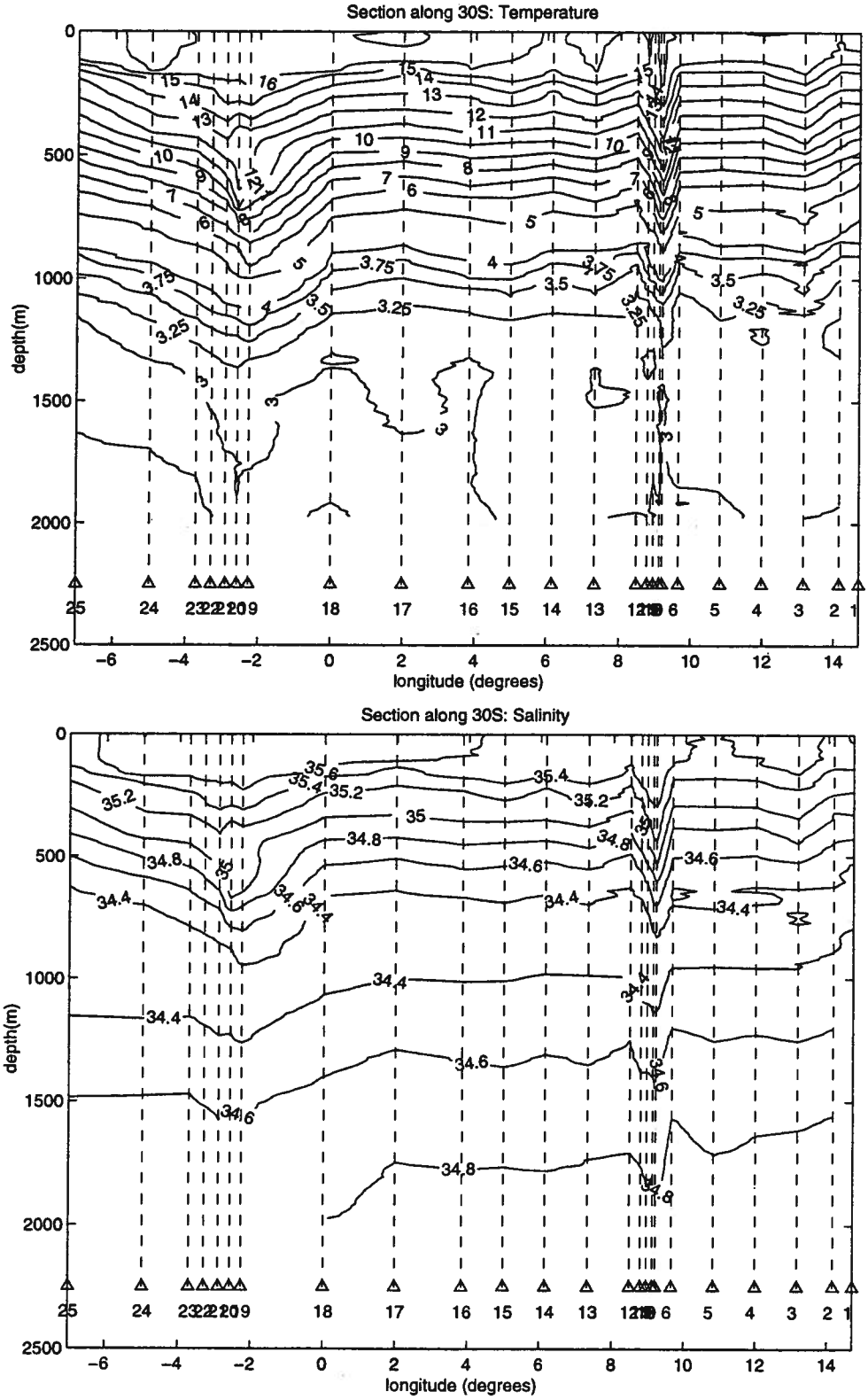
# Figure9


Ring 2: Temperature
Ring 2: Salinity
Ring 2: Oxygen
Ring 2: Potential Density
depth(m)
distance along radius (km)
0
500
1000
1500
2000
2500
100
50
0
23
22
21
20
19
16
15
14
13
12
11
10
8
5
4
3
35.4
35.2
35
34.8
34.6
34.4
34.6
4.5
26.5
26.75
27
27.25
27.5

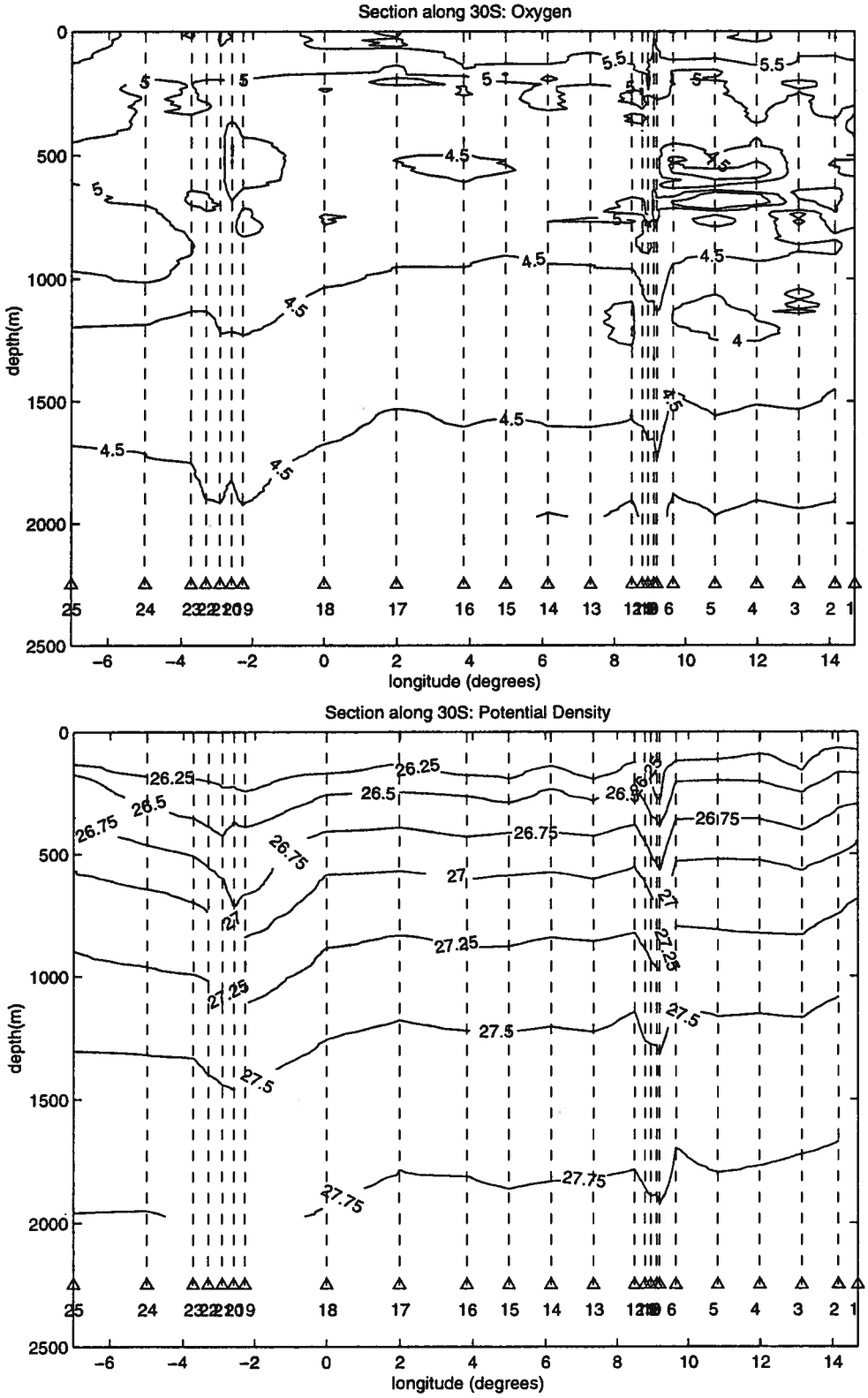
# Figure 10


Ring 3: Temperature
Ring 3: Salinity
Ring 3: Oxygen
Ring 3: Potential Density
depth(m)
distance along radius (km)
0
500
1000
1500
2000
2500
80
60
40
20
0
32
31
30
29
28
16
17
15
14
13
11
10
9
7
6
5
4
3
35.8
35.6
35.4
35.2
35
34.8
34.4
5.4
5.2
5
4.8
4.6
4.4
4.2
26
26.25
26.5
26.75
27
27.25
27.5
27.75

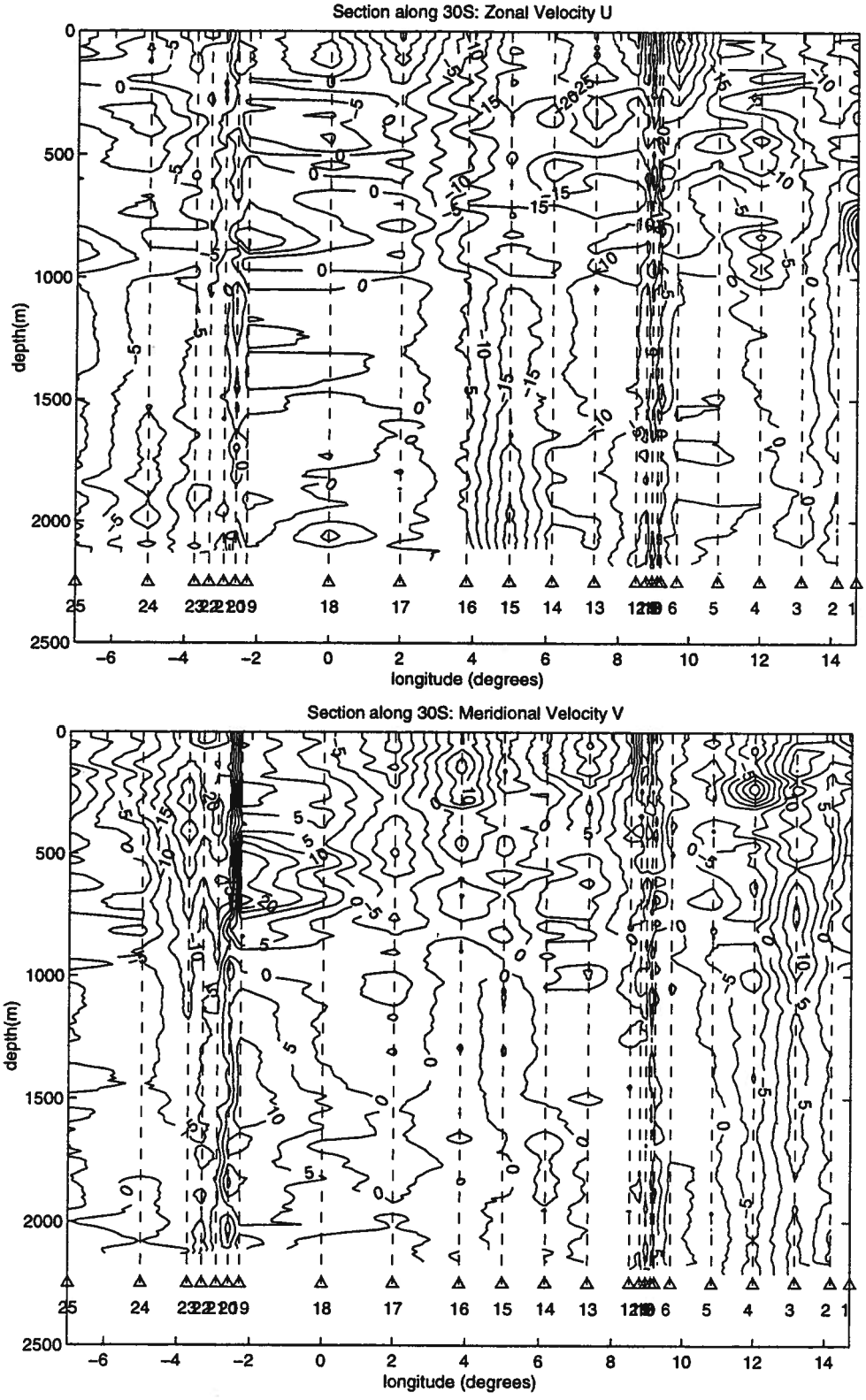
# Figure 11


Section along 30S: Temperature
depth(m)
longitude (degrees)
Section along 30S: Salinity
depth(m)
longitude (degrees)

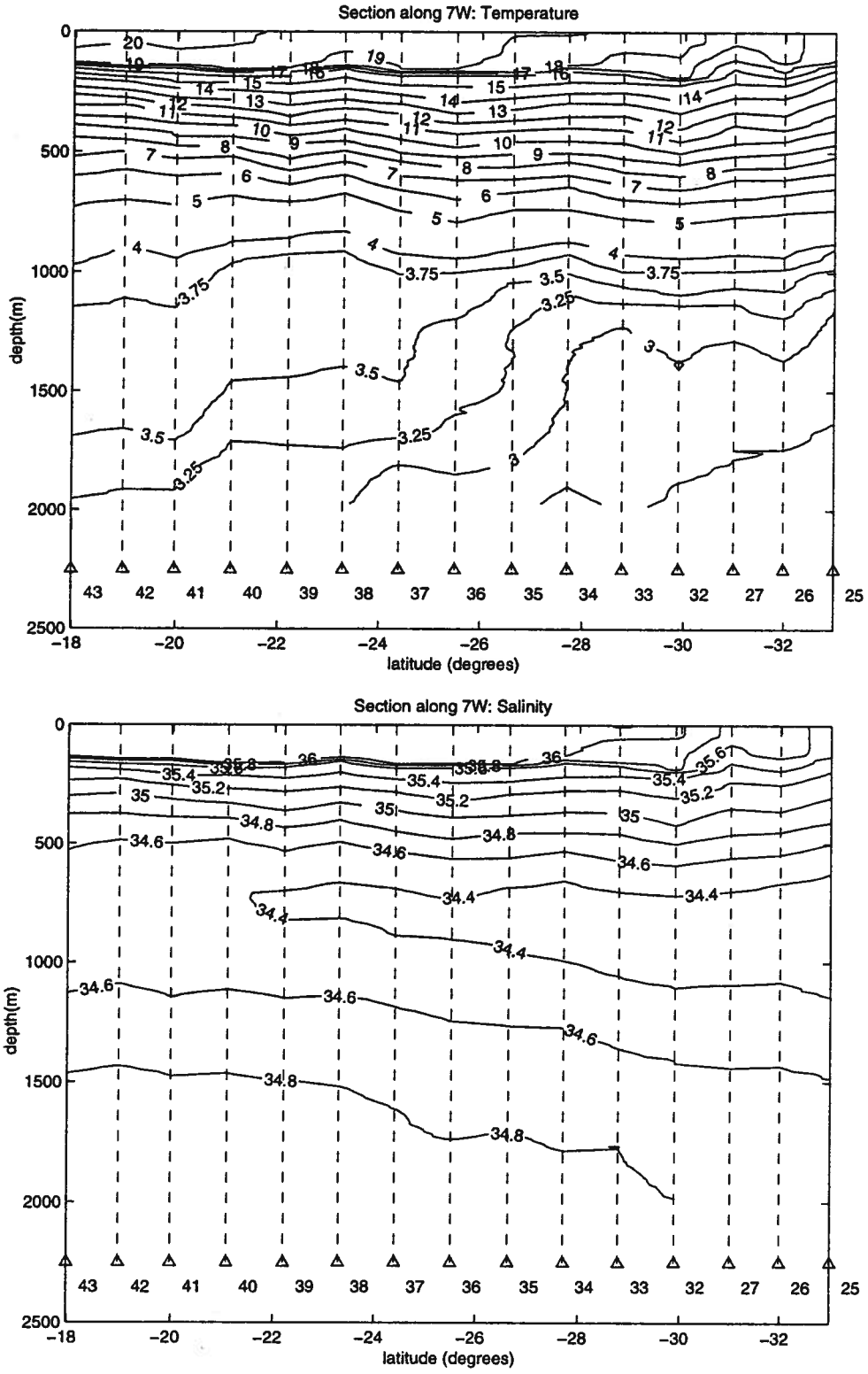
# Figure 11 (continued)



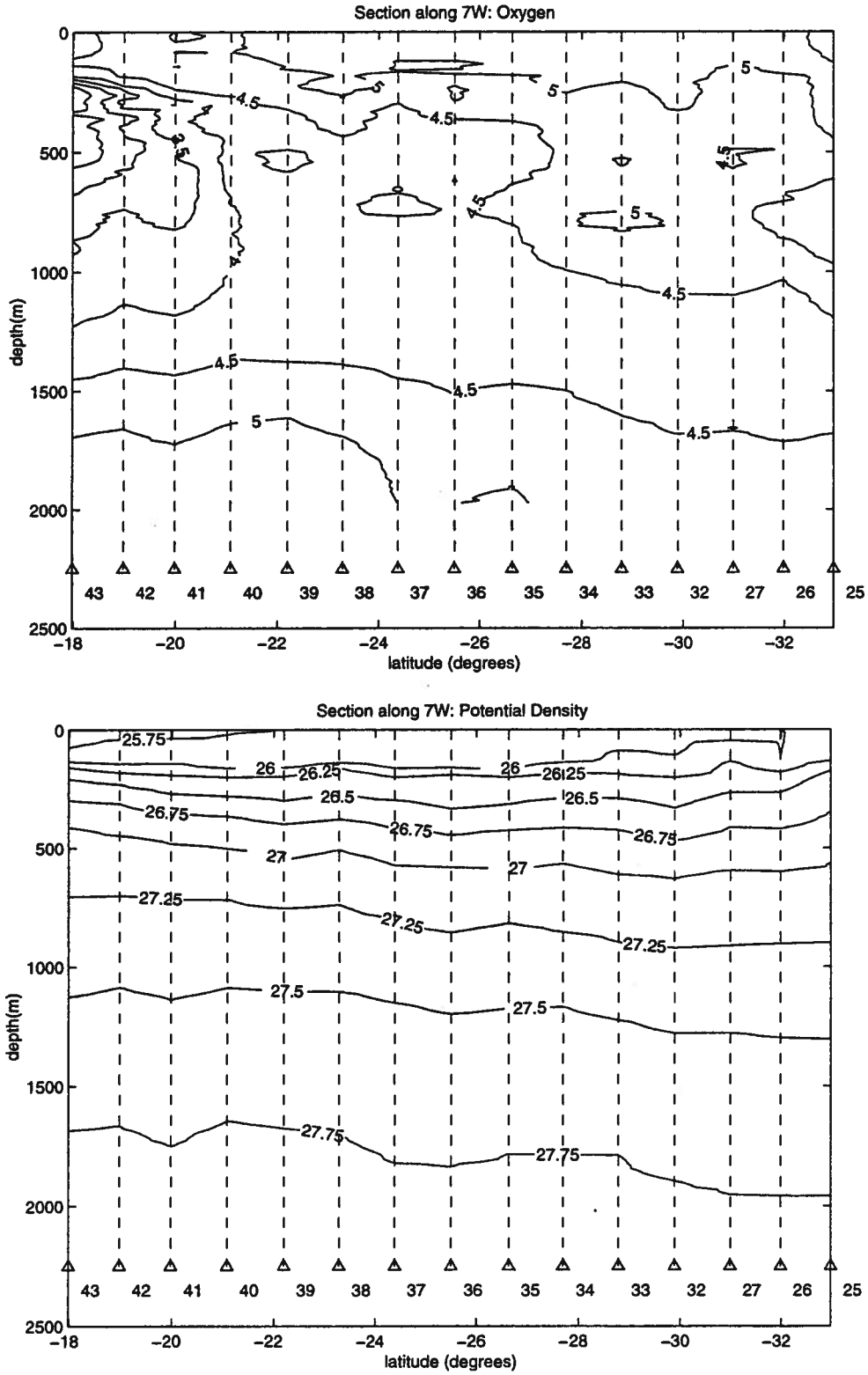
# Figure 11 (continued)



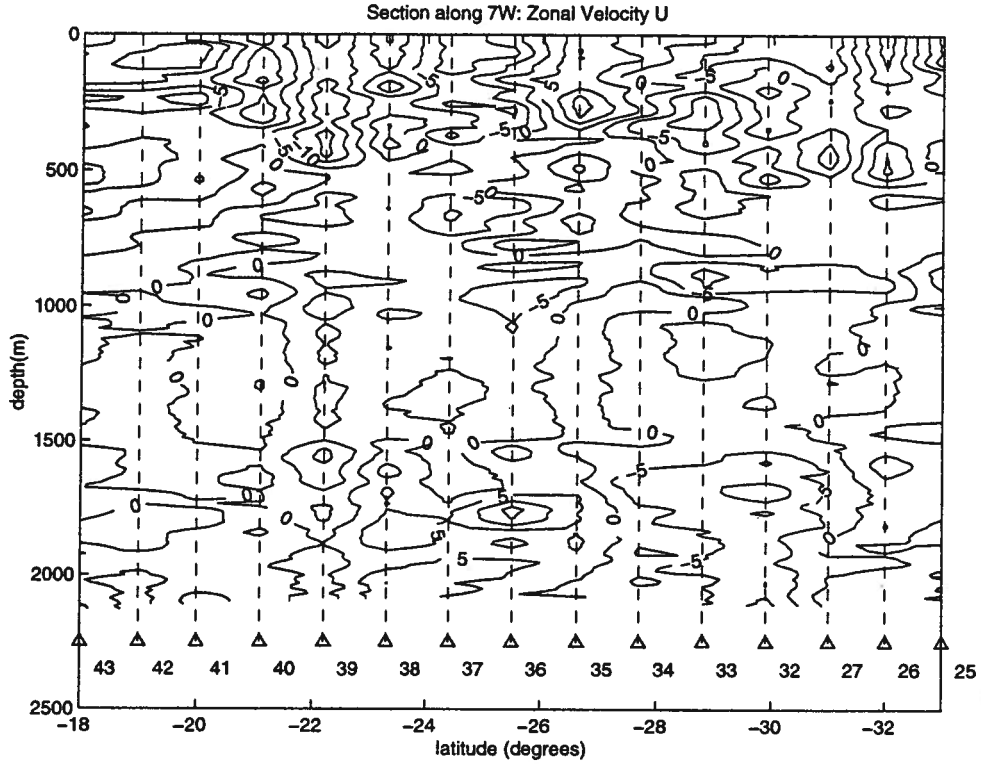
# Figure 12

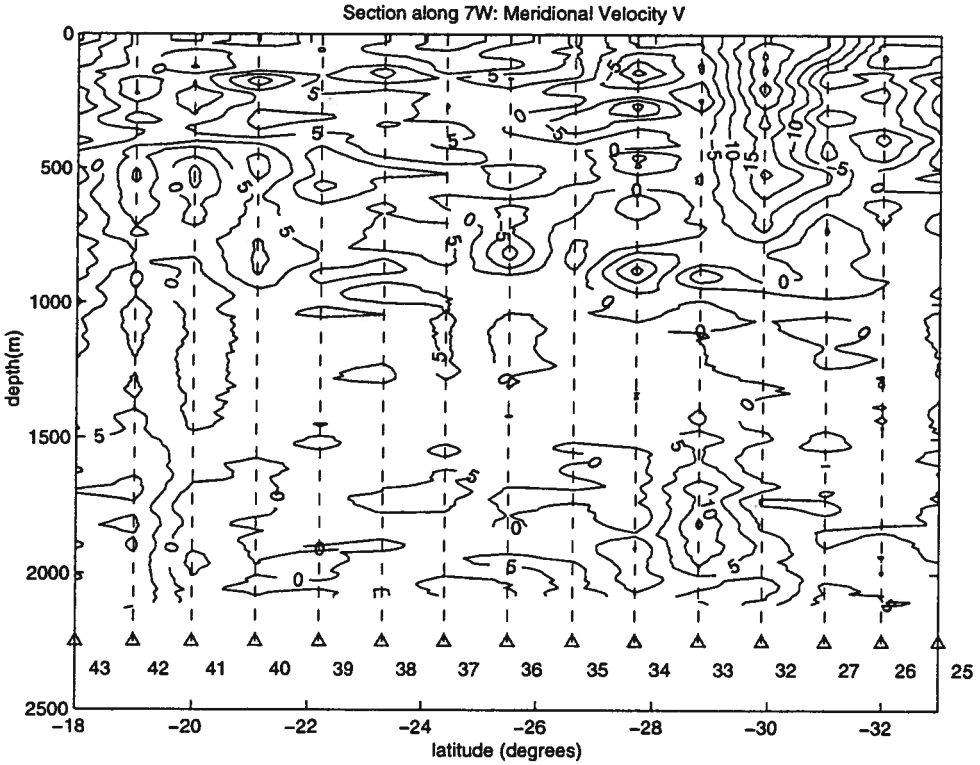

Section along 7W: Temperature
depth(m)
latitude (degrees)
Section along 7W: Salinity
depth(m)
latitude (degrees)

# Figure 12(continued)



# Figure 12 (continued)



## Report Format

The symbol definitions for the standard level and profile data are:

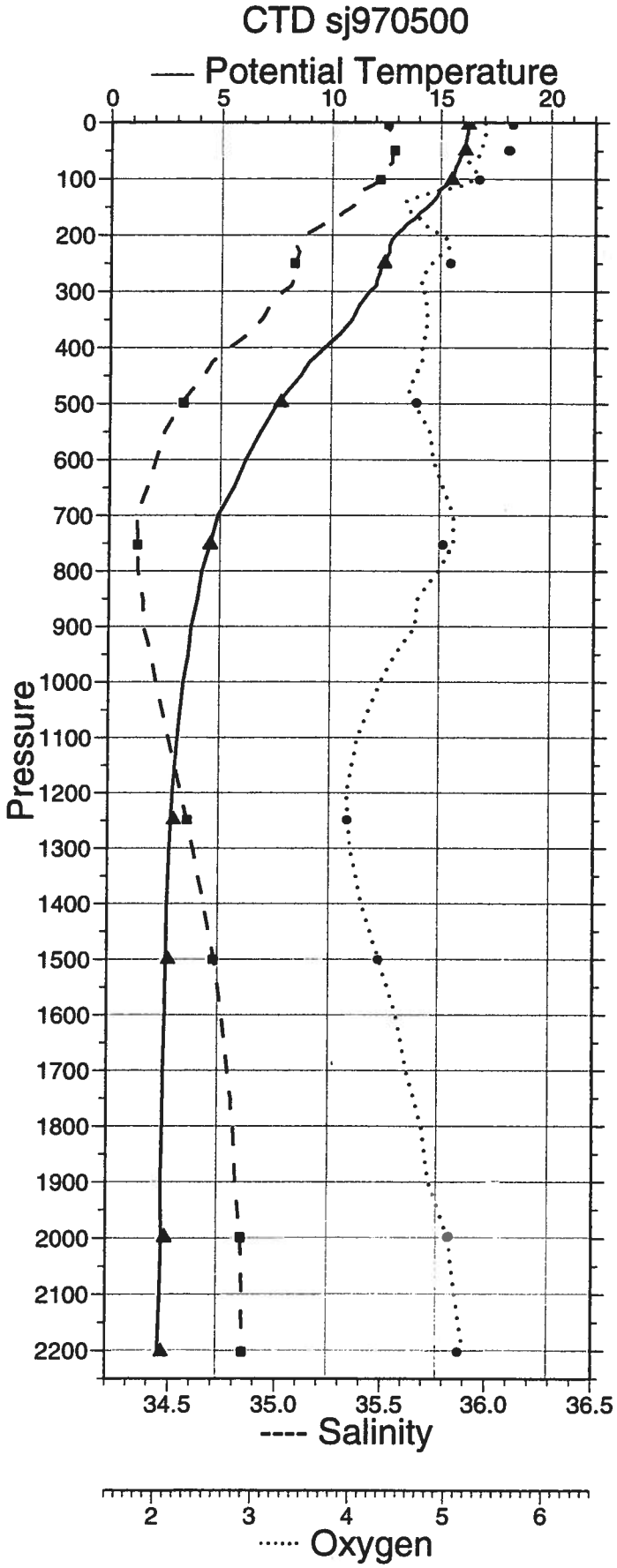
PR Pressure (dbar)
TE Temperature (°C)
PT Potential Temperature (°C)
SA Salinity (pss78)
OX Oxygen (ml/l)
S0 Sigma Theta
HZ Dynamic Height (dynamic meters)
RN Bottle Number
■ Bottle Salinity Data Point
▲ Bottle Potential temperature Data Point
● Bottle Oxygen Data Point

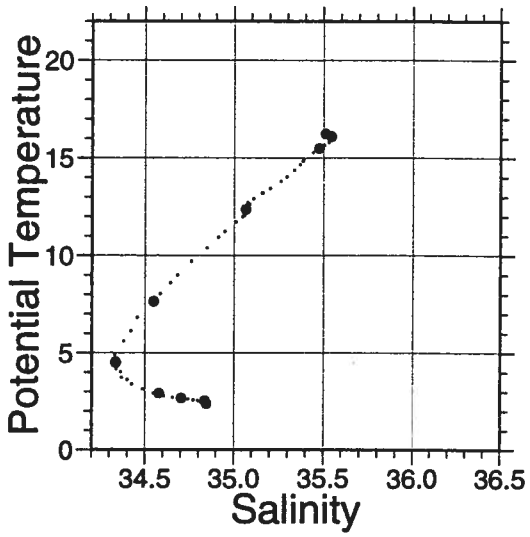
# station 0

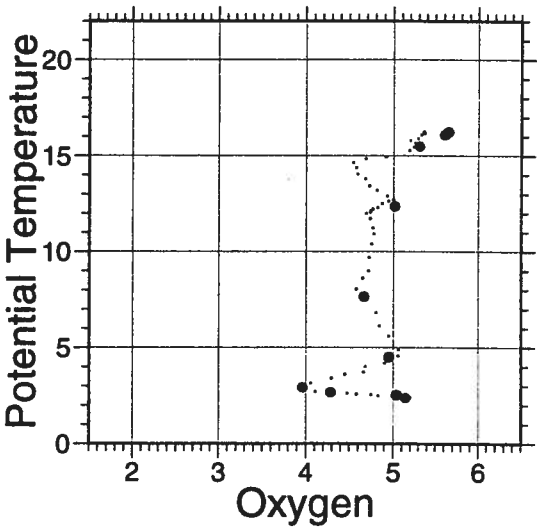
**lat. 33 32.00 S** **97/09/04**
**lon. 16 8.00 E** **17:26:29**

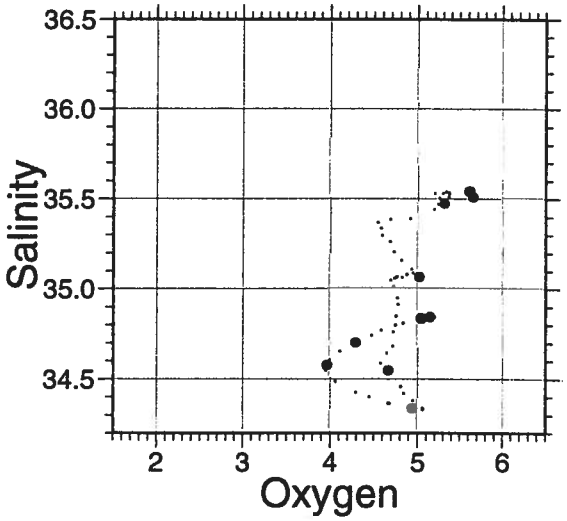
| PR | TE | PT | SA | OX | S0 | HZ |
|---|---|---|---|---|---|---|
| 0 | 16.254 | 16.254 | 35.511 | 5.368 | 26.083 | 0.000 |
| 10 | 16.247 | 16.246 | 35.512 | 5.363 | 26.086 | 0.019 |
| 20 | 16.209 | 16.206 | 35.53 | 5.369 | 26.109 | 0.038 |
| 30 | 16.168 | 16.163 | 35.536 | 5.369 | 26.123 | 0.057 |
| 40 | 16.124 | 16.117 | 35.542 | 5.338 | 26.138 | 0.076 |
| 50 | 16.104 | 16.096 | 35.541 | 5.333 | 26.143 | 0.095 |
| 60 | 15.902 | 15.892 | 35.532 | 5.296 | 26.182 | 0.113 |
| 70 | 15.819 | 15.808 | 35.532 | 5.199 | 26.202 | 0.132 |
| 80 | 15.686 | 15.674 | 35.506 | 5.257 | 26.212 | 0.150 |
| 90 | 15.62 | 15.606 | 35.494 | 5.273 | 26.218 | 0.168 |
| 100 | 15.487 | 15.471 | 35.471 | 5.239 | 26.231 | 0.186 |
| 110 | 15.303 | 15.286 | 35.443 | 5.188 | 26.251 | 0.204 |
| 120 | 14.962 | 14.944 | 35.39 | 4.915 | 26.286 | 0.222 |
| 130 | 14.865 | 14.846 | 35.386 | 4.686 | 26.304 | 0.240 |
| 140 | 14.672 | 14.652 | 35.369 | 4.544 | 26.334 | 0.257 |
| 150 | 14.408 | 14.386 | 35.338 | 4.576 | 26.367 | 0.274 |
| 160 | 14.074 | 14.051 | 35.296 | 4.594 | 26.406 | 0.291 |
| 170 | 13.825 | 13.801 | 35.265 | 4.687 | 26.435 | 0.308 |
| 180 | 13.463 | 13.438 | 35.204 | 4.729 | 26.463 | 0.324 |
| 190 | 13.225 | 13.199 | 35.16 | 4.81 | 26.477 | 0.340 |
| 200 | 12.923 | 12.896 | 35.11 | 4.928 | 26.5 | 0.356 |
| 210 | 12.742 | 12.713 | 35.079 | 5 | 26.512 | 0.372 |
| 220 | 12.661 | 12.631 | 35.076 | 5.012 | 26.526 | 0.387 |
| 230 | 12.668 | 12.637 | 35.089 | 4.948 | 26.535 | 0.403 |
| 240 | 12.545 | 12.512 | 35.081 | 4.874 | 26.553 | 0.418 |
| 250 | 12.325 | 12.292 | 35.065 | 4.821 | 26.584 | 0.433 |
| 260 | 12.266 | 12.232 | 35.07 | 4.767 | 26.599 | 0.449 |
| 270 | 12.19 | 12.154 | 35.063 | 4.745 | 26.609 | 0.463 |
| 280 | 12.091 | 12.054 | 35.06 | 4.736 | 26.626 | 0.478 |
| 290 | 12.046 | 12.008 | 35.05 | 4.694 | 26.627 | 0.493 |
| 300 | 11.758 | 11.719 | 35.011 | 4.737 | 26.652 | 0.508 |
| 325 | 11.289 | 11.248 | 34.95 | 4.767 | 26.692 | 0.544 |
| 350 | 10.98 | 10.937 | 34.915 | 4.777 | 26.721, | 0.579 |
| 375 | 10.442 | 10.397 | 34.85 | 4.757 | 26.767 | 0.614 |
| 400 | 9.738 | 9.692 | 34.761 | 4.723 | 26.818 | 0.647 |
| 425 | 9.046 | 8.999 | 34.681 | 4.718 | 26.869 | 0.679 |
| 450 | 8.669 | 8.62 | 34.643 | 4.649 | 26.899 | 0.710 |
| 475 | 8.106 | 8.057 | 34.587 | 4.579 | 26.941 | 0.741 |
| 500 | 7.589 | 7.539 | 34.536 | 4.636 | 26.977 | 0.770 |
| 550 | 6.861 | 6.809 | 34.458 | 4.809 | 27.018 | 0.827 |
| 600 | 6.179 | 6.126 | 34.42 | 4.845 | 27.079 | 0.882 |
| 650 | 5.648 | 5.592 | 34.38 | 4.947 | 27.114 | 0.934 |
| 700 | 4.952 | 4.896 | 34.332 | 5.059 | 27.158 | 0.984 |
| 750 | 4.633 | 4.574 | 34.338 | 5.06 | 27.198 | 1.032 |
| 800 | 4.251 | 4.19 | 34.339 | 4.902 | 27.241 | 1.078 |
| 850 | 4.082 | 4.018 | 34.364 | 4.686 | 27.278 | 1.122 |
| 900 | 3.802 | 3.737 | 34.368 | 4.662 | 27.31 | 1.165 |
| 950 | 3.692 | 3.623 | 34.402 | 4.453 | 27.349 | 1.206 |
| 1000 | 3.473 | 3.401 | 34.426 | 4.296 | 27.389 | 1.245 |
| 1100 | 3.23 | 3.152 | 34.486 | 4.061 | 27.461 | 1.317 |
| 1200 | 3.024 | 2.94 | 34.548 | 3.953 | 27.53 | 1.384 |
| 1300 | 2.897 | 2.806 | 34.605 | 3.992 | 27.587 | 1.445 |
| 1400 | 2.818 | 2.72 | 34.655 | 4.112 | 27.635 | 1.501 |
| 1500 | 2.788 | 2.683 | 34.707 | 4.294 | 27.68 | 1.554 |
| 1600 | 2.751 | 2.638 | 34.743 | 4.477 | 27.713 | 1.603 |
| 1700 | 2.703 | 2.581 | 34.771 | 4.586 | 27.74 | 1.651 |
| 1800 | 2.675 | 2.545 | 34.798 | 4.749 | 27.765 | 1.696 |
| 1900 | 2.637 | 2.499 | 34.811 | 4.828 | 27.779 | 1.740 |
| 2000 | 2.679 | 2.532 | 34.838 | 5.035 | 27.798 | 1.783 |
| 2100 | 2.627 | 2.471 | 34.844 | 5.106 | 27.808 | 1.826 |
| 2200 | 2.555 | 2.392 | 34.846 | 5.196 | 27.816 | 1.868 |

| PR | TE | PT | SA | OX | RN |
|---|---|---|---|---|---|
| 3.5 | 16.253 | 16.252 | 35.512 | 5.650 | 23 |
| 3.5 | 16.249 | 16.249 | 35.512 | 5.648 | 24 |
| 49.2 | 16.111 | 16.104 | 35.543 | 5.607 | 21 |
| 49.4 | 16.121 | 16.113 | 35.544 | 5.619 | 22 |
| 101.4 | 15.509 | 15.493 | 35.475 | 5.310 | 19 |
| 249.3 | 12.406 | 12.373 | 35.067 | 5.014 | 15 |
| 250.0 | 12.397 | 12.363 | 35.068 | 5.016 | 16 |
| 497.6 | 7.710 | 7.660 | 34.549 | 4.663 | 14 |
| 498.1 | 7.694 | 7.644 | 34.548 | 4.667 | 13 |
| 752.2 | 4.584 | 4.525 | 34.336 | 4.952 | 12 |
| 752.6 | 4.556 | 4.497 | 34.336 | 4.949 | 11 |
| 1248.4 | 3.016 | 2.928 | 34.578 | 3.964 | 7 |
| 1248.5 | 3.016 | 2.928 | 34.579 | 3.964 | 8 |
| 1500.4 | 2.790 | 2.684 | 34.703 | 4.289 | 5 |
| 1997.6 | 2.680 | 2.533 | 34.837 | 5.046 | 4 |
| 1999.4 | 2.680 | 2.532 | 34.838 | 5.032 | 3 |
| 2201.8 | 2.554 | 2.390 | 34.846 | 5.142 | 2 |
| 2202.0 | 2.554 | 2.390 | 34.846 | 5.142 | 1 |


CTD sj970500
— Potential Temperature
0 5 10 15 20
Pressure
0 100 200 300 400 500 600 700 800 900 1000 1100 1200 1300 1400 1500 1600 1700 1800 1900 2000 2100 2200
34.5 35.0 35.5 36.0 36.5
---- Salinity
2 3 4 5 6
····· Oxygen


Potential Temperature
0 5 10 15 20
34.5 35.0 35.5 36.0 36.5
Salinity


Potential Temperature
0 5 10 15 20
2 3 4 5 6
Oxygen

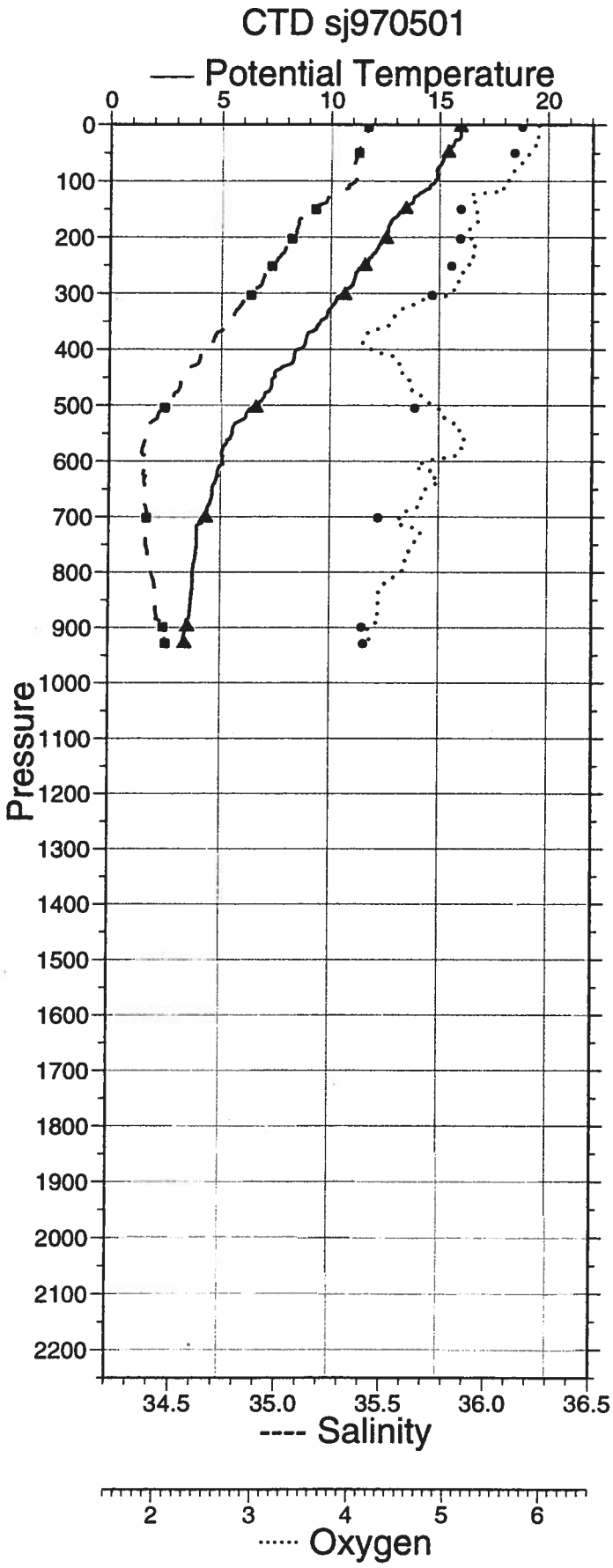

Salinity
34.5 35.0 35.5 36.0 36.5
2 3 4 5 6
Oxygen

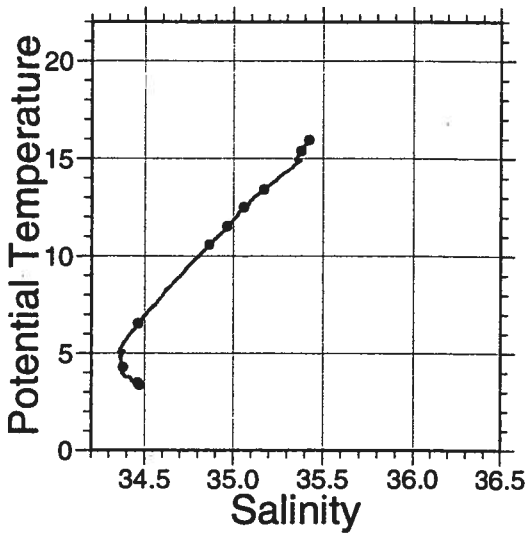
# station 1

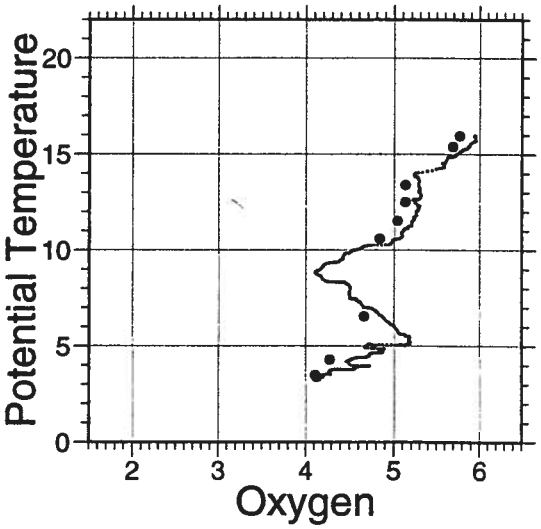
**lat. 30 26.03 S** **97/09/05**
**lon. 14 42.37 E** **18:01:55**

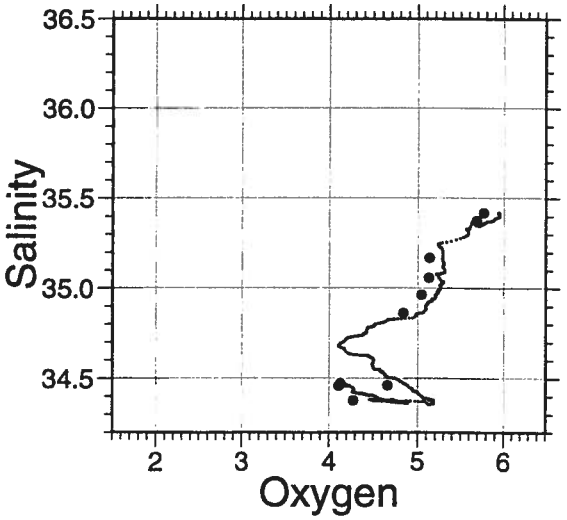
| PR | TE | PT | SA | OX | S0 | HZ |
|---|---|---|---|---|---|---|
| 0 | 15.977 | 15.977 | 35.419 | 5.949 | 26.076 | 0.000 |
| 10 | 15.979 | 15.978 | 35.418 | 5.947 | 26.075 | 0.019 |
| 20 | 15.974 | 15.971 | 35.419 | 5.938 | 26.078 | 0.039 |
| 30 | 15.698 | 15.693 | 35.397 | 5.947 | 26.124 | 0.058 |
| 40 | 15.517 | 15.511 | 35.385 | 5.887 | 26.156 | 0.076 |
| 50 | 15.333 | 15.325 | 35.375 | 5.858 | 26.19 | 0.095 |
| 60 | 15.184 | 15.175 | 35.365 | 5.789 | 26.216 | 0.113 |
| 70 | 15.08 | 15.069 | 35.356 | 5.752 | 26.232 | 0.131 |
| 80 | 14.894 | 14.882 | 35.349 | 5.692 | 26.268 | 0.149 |
| 90 | 14.903 | 14.89 | 35.364 | 5.659 | 26.278 | 0.167 |
| 100 | 14.817 | 14.802 | 35.36 | 5.63 | 26.294 | 0.184 |
| 110 | 14.573 | 14.556 | 35.331 | 5.573 | 26.325 | 0.202 |
| 120 | 14.188 | 14.17 | 35.271 | 5.447 | 26.361 | 0.219 |
| 130 | 13.839 | 13.82 | 35.229 | 5.255 | 26.403 | 0.235 |
| 140 | 13.711 | 13.691 | 35.209 | 5.285 | 26.414 | 0.252 |
| 150 | 13.363 | 13.342 | 35.158 | 5.285 | 26.447 | 0.268 |
| 160 | 13.114 | 13.092 | 35.125 | 5.286 | 26.472 | 0.284 |
| 170 | 12.817 | 12.793 | 35.091 | 5.313 | 26.505 | 0.300 |
| 180 | 12.675 | 12.651 | 35.085 | 5.283 | 26.529 | 0.316 |
| 190 | 12.651 | 12.625 | 35.079 | 5.216 | 26.529 | 0.331 |
| 200 | 12.604 | 12.578 | 35.073 | 5.232 | 26.534 | 0.347 |
| 210 | 12.336 | 12.309 | 35.038 | 5.296 | 26.56 | 0.362 |
| 220 | 12.176 | 12.147 | 35.028 | 5.286 | 26.583 | 0.377 |
| 230 | 11.96 | 11.931 | 35.009 | 5.257 | 26.61 | 0.392 |
| 240 | 11.761 | 11.731 | 34.988 | 5.226 | 26.632 | 0.407 |
| 250 | 11.552 | 11.52 | 34.968 | 5.207 | 26.655 | 0.421 |
| 260 | 11.263 | 11.231 | 34.939 | 5.16 | 26.687 | 0.435 |
| 270 | 11.148 | 11.114 | 34.925 | 5.123 | 26.697 | 0.450 |
| 280 | 11.074 | 11.039 | 34.916 | 5.112 | 26.703 | 0.464 |
| 290 | 10.893 | 10.857 | 34.895 | 5.094 | 26.72 | 0.477 |
| 300 | 10.594 | 10.558 | 34.861 | 4.995 | 26.747 | 0.491 |
| 325 | 10.061 | 10.023 | 34.806 | 4.564 | 26.797 | 0.525 |
| 350 | 9.566 | 9.526 | 34.753 | 4.42 | 26.839 | 0.557 |
| 375 | 8.971 | 8.93 | 34.695 | 4.133 | 26.891 | 0.588 |
| 400 | 8.532 | 8.49 | 34.649 | 4.194 | 26.924 | 0.619 |
| 425 | 8.251 | 8.207 | 34.615 | 4.481 | 26.941 | 0.649 |
| 450 | 7.461 | 7.417 | 34.544 | 4.575 | 27.001 | 0.677 |
| 475 | 7.237 | 7.191 | 34.522 | 4.634 | 27.016 | 0.705 |
| 500 | 6.64 | 6.594 | 34.47 | 4.849 | 27.057 | 0.733 |
| 550 | 5.558 | 5.512 | 34.381 | 5.155 | 27.124 | 0.785 |
| 600 | 5.104 | 5.056 | 34.373 | 4.769 | 27.172 | 0.834 |
| 650 | 4.686 | 4.635 | 34.37 | 4.779 | 27.217 | 0.880 |
| 700 | 4.339 | 4.286 | 34.382 | 4.521 | 27.265 | 0.925 |
| 750 | 4.015 | 3.96 | 34.375 | 4.652 | 27.293 | 0.968 |
| 800 | 3.837 | 3.779 | 34.402 | 4.519 | 27.333 | 1.009 |
| 850 | 3.772 | 3.71 | 34.424 | 4.283 | 27.357 | 1.049 |
| 900 | 3.536 | 3.472 | 34.461 | 4.174 | 27.41 | 1.087 |
| 930 | 3.451 | 3.385 | 34.472 | 4.161 | 27.428 | 1.109 |

| PR | TE | PT | SA | OX | RN |
|---|---|---|---|---|---|
| 3.9 | 15.970 | 15.970 | 35.421 | 5.769 | 11 |
| 49.5 | 15.407 | 15.399 | 35.377 | 5.690 | 10 |
| 149.9 | 13.443 | 13.422 | 35.171 | 5.135 | 8 |
| 202.6 | 12.549 | 12.522 | 35.058 | 5.131 | 7 |
| 251.2 | 11.565 | 11.533 | 34.964 | 5.039 | 6 |
| 303.2 | 10.641 | 10.605 | 34.864 | 4.837 | 5 |
| 504.3 | 6.602 | 6.556 | 34.462 | 4.658 | 4 |
| 701.7 | 4.348 | 4.295 | 34.379 | 4.278 | 3 |
| 898.7 | 3.561 | 3.497 | 34.459 | 4.110 | 2 |
| 928.5 | 3.449 | 3.383 | 34.471 | 4.130 | 1 |


CTD sj970501
— Potential Temperature
0
5
10
15
20
Pressure
0
100
200
300
400
500
600
700
800
900
1000
1100
1200
1300
1400
1500
1600
1700
1800
1900
2000
2100
2200
34.5
35.0
35.5
36.0
36.5
---- Salinity
2
3
4
5
6
····· Oxygen


Potential Temperature
0
5
10
15
20
34.5
35.0
35.5
36.0
36.5
Salinity


Potential Temperature
0
5
10
15
20
2
3
4
5
6
Oxygen

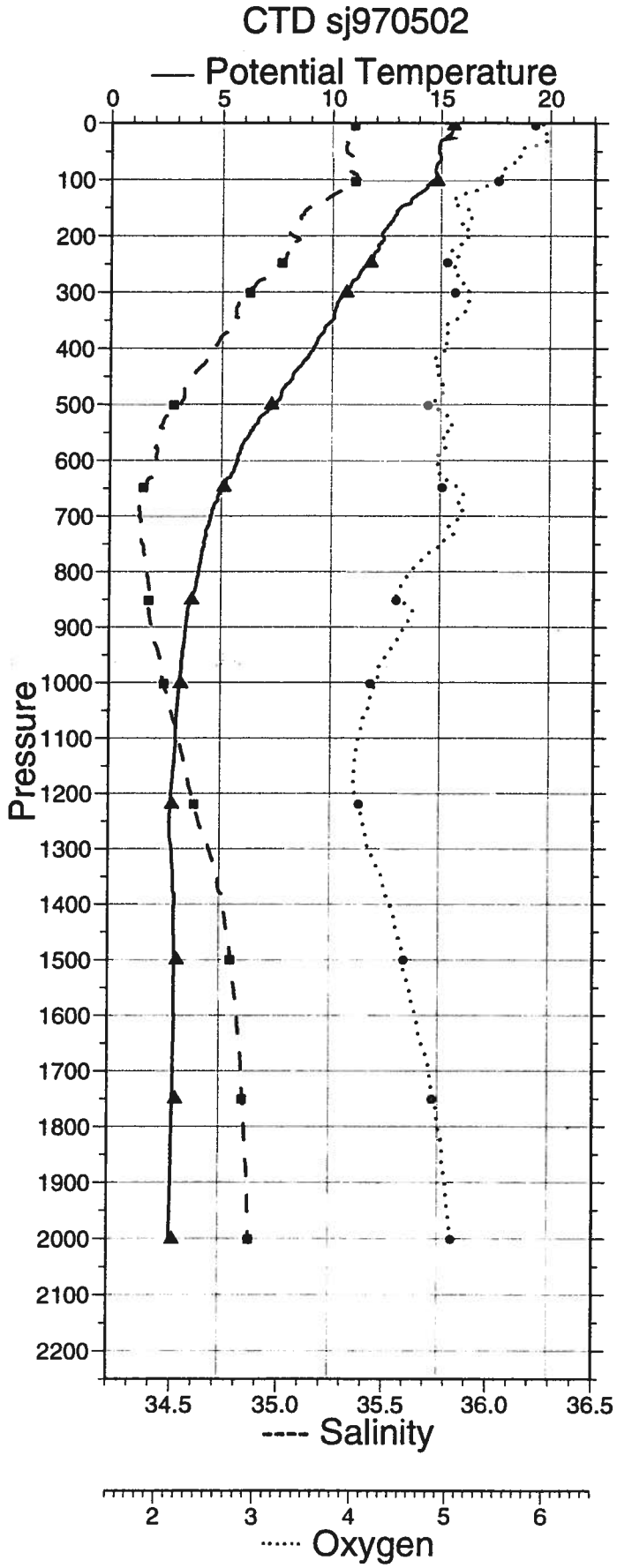

Salinity
34.5
35.0
35.5
36.0
36.5
2
3
4
5
6
Oxygen

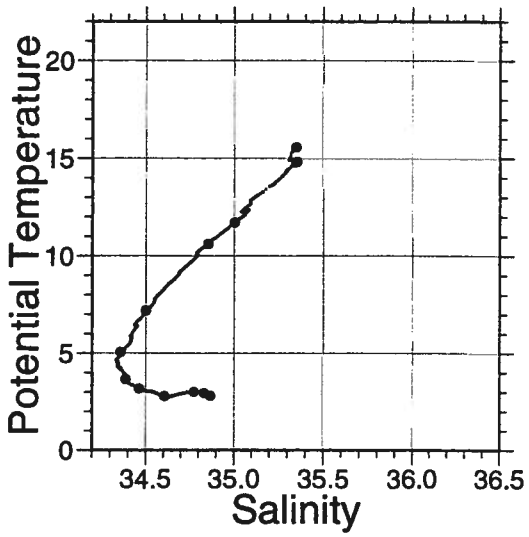
# station 2

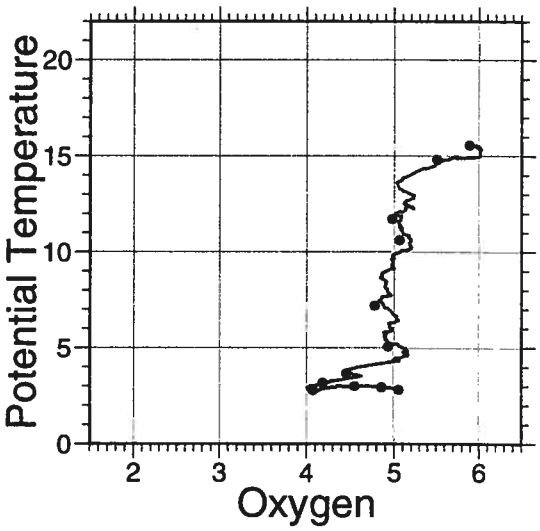
**lat. 30 26.03 S** **97/09/05**
**lon. 14 9.97 E** **21:24:57**

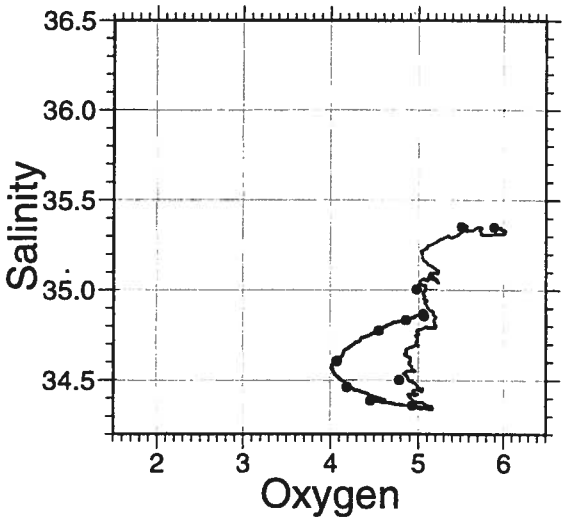
| PR | TE | PT | SA | OX | S0 | HZ |
|---|---|---|---|---|---|---|
| 0 | 15.551 | 15.551 | 35.345 | 5.97 | 26.116 | 0.000 |
| 10 | 15.53 | 15.528 | 35.341 | 5.97 | 26.118 | 0.019 |
| 20 | 15.402 | 15.399 | 35.331 | 6.018 | 26.139 | 0.038 |
| 30 | 15.048 | 15.043 | 35.315 | 6.016 | 26.206 | 0.056 |
| 40 | 14.908 | 14.901 | 35.308 | 5.852 | 26.232 | 0.074 |
| 50 | 14.91 | 14.903 | 35.311 | 5.738 | 26.234 | 0.092 |
| 60 | 14.982 | 14.973 | 35.338 | 5.732 | 26.239 | 0.110 |
| 70 | 14.877 | 14.866 | 35.34 | 5.669 | 26.264 | 0.128 |
| 80 | 14.779 | 14.767 | 35.332 | 5.574 | 26.28 | 0.145 |
| 90 | 14.787 | 14.773 | 35.344 | 5.576 | 26.288 | 0.163 |
| 100 | 14.737 | 14.722 | 35.342 | 5.542 | 26.297 | 0.180 |
| 110 | 14.403 | 14.387 | 35.294 | 5.412 | 26.333 | 0.198 |
| 120 | 14.197 | 14.18 | 35.281 | 5.256 | 26.367 | 0.215 |
| 130 | 13.811 | 13.792 | 35.232 | 5.097 | 26.411 | 0.231 |
| 140 | 13.627 | 13.607 | 35.211 | 5.038 | 26.433 | 0.248 |
| 150 | 13.121 | 13.1 | 35.13 | 5.155 | 26.474 | 0.264 |
| 160 | 12.972 | 12.95 | 35.105 | 5.235 | 26.485 | 0.280 |
| 170 | 12.816 | 12.793 | 35.094 | 5.229 | 26.508 | 0.295 |
| 180 | 12.607 | 12.583 | 35.082 | 5.121 | 26.54 | 0.311 |
| 190 | 12.403 | 12.378 | 35.053 | 5.196 | 26.558 | 0.326 |
| 200 | 12.311 | 12.285 | 35.053 | 5.218 | 26.576 | 0.341 |
| 210 | 12.286 | 12.258 | 35.07 | 5.132 | 26.594 | 0.356 |
| 220 | 12.134 | 12.106 | 35.057 | 5.079 | 26.614 | 0.371 |
| 230 | 11.957 | 11.927 | 35.034 | 5.023 | 26.63 | 0.386 |
| 240 | 11.882 | 11.851 | 35.02 | 5.083 | 26.634 | 0.400 |
| 250 | 11.635 | 11.603 | 34.991 | 5.063 | 26.658 | 0.415 |
| 260 | 11.389 | 11.356 | 34.956 | 5.065 | 26.677 | 0.429 |
| 270 | 11.24 | 11.206 | 34.937 | 5.089 | 26.689 | 0.443 |
| 280 | 10.972 | 10.938 | 34.895 | 5.115 | 26.706 | 0.457 |
| 290 | 10.862 | 10.826 | 34.875 | 5.177 | 26.71 | 0.471 |
| 300 | 10.616 | 10.58 | 34.846 | 5.199 | 26.731 | 0.485 |
| 325 | 10.231 | 10.193 | 34.794 | 5.197 | 26.758 | 0.519 |
| 350 | 10.047 | 10.006 | 34.792 | 5.074 | 26.789 | 0.553 |
| 375 | 9.533 | 9.49 | 34.73 | 4.987 | 26.827 | 0.586 |
| 400 | 9.177 | 9.133 | 34.69 | 5 | 26.854 | 0.618 |
| 425 | 8.724 | 8.678 | 34.645 | 4.843 | 26.891 | 0.649 |
| 450 | 8.241 | 8.194 | 34.592 | 4.893 | 26.924 | 0.680 |
| 475 | 7.762 | 7.714 | 34.55 | 4.963 | 26.963 | 0.709 |
| 500 | 7.477 | 7.427 | 34.531 | 4.844 | 26.989 | 0.738 |
| 550 | 6.357 | 6.308 | 34.444 | 4.951 | 27.074 | 0.793 |
| 600 | 5.776 | 5.724 | 34.42 | 4.901 | 27.129 | 0.845 |
| 650 | 5.09 | 5.037 | 34.361 | 5.091 | 27.164 | 0.894 |
| 700 | 4.596 | 4.541 | 34.34 | 5.103 | 27.204 | 0.942 |
| 750 | 4.302 | 4.245 | 34.354 | 4.948 | 27.247 | 0.987 |
| 800 | 4.069 | 4.009 | 34.375 | 4.601 | 27.288 | 1.031 |
| 850 | 3.78 | 3.719 | 34.39 | 4.497 | 27.33 | 1.073 |
| 900 | 3.519 | 3.455 | 34.402 | 4.546 | 27.365 | 1.112 |
| 950 | 3.385 | 3.318 | 34.436 | 4.349 | 27.405 | 1.150 |
| 1000 | 3.275 | 3.205 | 34.459 | 4.239 | 27.434 | 1.187 |
| 1100 | 3.112 | 3.035 | 34.527 | 4.06 | 27.504 | 1.255 |
| 1200 | 2.92 | 2.837 | 34.589 | 4.026 | 27.572 | 1.317 |
| 1300 | 2.958 | 2.867 | 34.673 | 4.182 | 27.636 | 1.374 |
| 1400 | 3.116 | 3.014 | 34.742 | 4.402 | 27.678 | 1.427 |
| 1500 | 3.125 | 3.015 | 34.78 | 4.544 | 27.708 | 1.477 |
| 1600 | 3.135 | 3.016 | 34.81 | 4.676 | 27.732 | 1.526 |
| 1700 | 3.105 | 2.978 | 34.83 | 4.822 | 27.752 | 1.573 |
| 1800 | 3.063 | 2.927 | 34.844 | 4.917 | 27.767 | 1.620 |
| 1900 | 3.031 | 2.887 | 34.86 | 4.989 | 27.784 | 1.665 |
| 2000 | 2.969 | 2.817 | 34.868 | 5.051 | 27.797 | 1.710 |

| PR | TE | PT | SA | OX | RN |
|---|---|---|---|---|---|
| 4.0 | 15.570 | 15.570 | 35.349 | 5.889 | 14 |
| 103.0 | 14.825 | 14.810 | 35.353 | 5.509 | 12 |
| 247.8 | 11.747 | 11.715 | 35.005 | 4.978 | 11 |
| 301.2 | 10.653 | 10.617 | 34.855 | 5.063 | 10 |
| 500.6 | 7.249 | 7.200 | 34.500 | 4.777 | 9 |
| 648.4 | 5.117 | 5.064 | 34.359 | 4.931 | 8 |
| 851.2 | 3.724 | 3.663 | 34.387 | 4.455 | 6 |
| 1001.8 | 3.253 | 3.183 | 34.461 | 4.186 | 5 |
| 1219.5 | 2.886 | 2.802 | 34.605 | 4.070 | 4 |
| 1500.3 | 3.127 | 3.017 | 34.775 | 4.549 | 3 |
| 1750.5 | 3.088 | 2.957 | 34.834 | 4.855 | 2 |
| 2001.3 | 2.967 | 2.815 | 34.867 | 5.050 | 1 |


CTD sj970502
— Potential Temperature
0 5 10 15 20
Pressure
0 100 200 300 400 500 600 700 800 900 1000 1100 1200 1300 1400 1500 1600 1700 1800 1900 2000 2100 2200
34.5 35.0 35.5 36.0 36.5
---- Salinity
2 3 4 5 6
····· Oxygen


Potential Temperature
0 5 10 15 20
34.5 35.0 35.5 36.0 36.5
Salinity


Potential Temperature
0 5 10 15 20
2 3 4 5 6
Oxygen

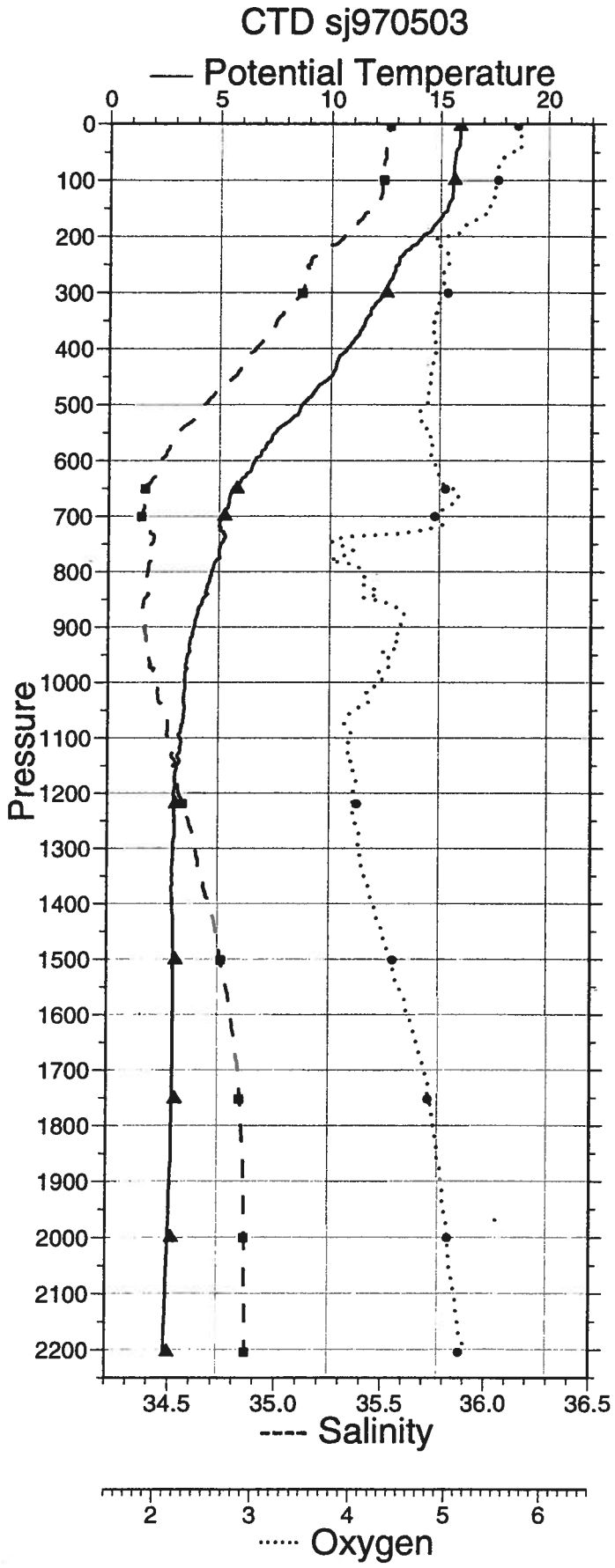

Salinity
34.5 35.0 35.5 36.0 36.5
2 3 4 5 6
Oxygen

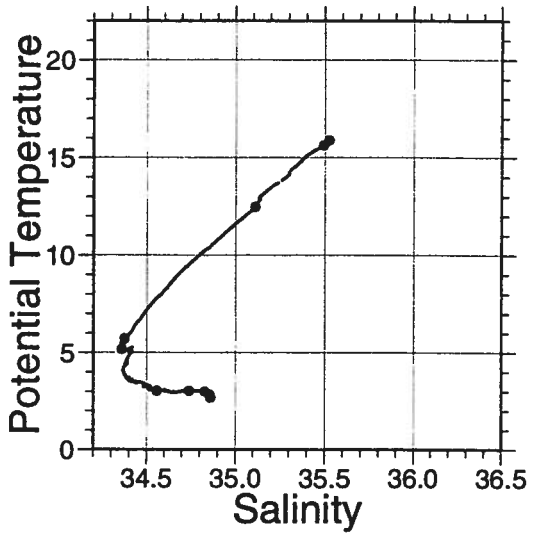
# station 3

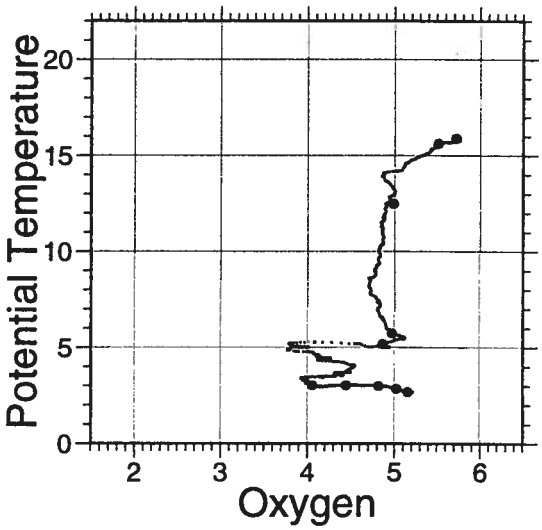
**lat. 30 26.03 S** **97/09/06**
**lon. 13 9.97 E** **03:40:28**

| PR | TE | PT | SA | OX | S0 | HZ |
|---|---|---|---|---|---|---|
| 0 | 15.906 | 15.906 | 35.523 | 5.753 | 26.172 | 0.000 |
| 10 | 15.906 | 15.904 | 35.52 | 5.754 | 26.171 | 0.018 |
| 20 | 15.906 | 15.902 | 35.519 | 5.751 | 26.17 | 0.037 |
| 30 | 15.887 | 15.883 | 35.516 | 5.757 | 26.173 | 0.055 |
| 40 | 15.866 | 15.86 | 35.511 | 5.751 | 26.174 | 0.074 |
| 50 | 15.711 | 15.703 | 35.502 | 5.659 | 26.203 | 0.092 |
| 60 | 15.692 | 15.682 | 35.503 | 5.573 | 26.208 | 0.110 |
| 70 | 15.648 | 15.637 | 35.493 | 5.537 | 26.211 | 0.128 |
| 80 | 15.636 | 15.624 | 35.491 | 5.513 | 26.212 | 0.147 |
| 90 | 15.621 | 15.607 | 35.487 | 5.515 | 26.213 | 0.165 |
| 100 | 15.6 | 15.585 | 35.483 | 5.499 | 26.215 | 0.183 |
| 110 | 15.596 | 15.579 | 35.484 | 5.491 | 26.217 | 0.201 |
| 120 | 15.597 | 15.578 | 35.486 | 5.504 | 26.218 | 0.220 |
| 130 | 15.574 | 15.554 | 35.48 | 5.474 | 26.219 | 0.238 |
| 140 | 15.43 | 15.408 | 35.451 | 5.474 | 26.23 | 0.256 |
| 150 | 15.351 | 15.328 | 35.436 | 5.431 | 26.236 | 0.274 |
| 160 | 15.139 | 15.114 | 35.399 | 5.392 | 26.255 | 0.293 |
| 170 | 14.97 | 14.945 | 35.382 | 5.289 | 26.28 | 0.311 |
| 180 | 14.741 | 14.713 | 35.355 | 5.174 | 26.309 | 0.328 |
| 190 | 14.585 | 14.556 | 35.334 | 5.12 | 26.327 | 0.346 |
| 200 | 14.215 | 14.186 | 35.303 | 4.972 | 26.383 | 0.363 |
| 210 | 13.998 | 13.968 | 35.279 | 4.865 | 26.41 | 0.380 |
| 220 | 13.661 | 13.629 | 35.223 | 4.919 | 26.438 | 0.397 |
| 230 | 13.368 | 13.336 | 35.179 | 4.983 | 26.464 | 0.413 |
| 240 | 13.149 | 13.116 | 35.151 | 5.008 | 26.487 | 0.429 |
| 250 | 13.102 | 13.068 | 35.144 | 4.999 | 26.492 | 0.445 |
| 260 | 12.969 | 12.933 | 35.142 | 4.976 | 26.517 | 0.461 |
| 270 | 12.851 | 12.813 | 35.135 | 4.941 | 26.535 | 0.477 |
| 280 | 12.703 | 12.665 | 35.122 | 4.951 | 26.555 | 0.492 |
| 290 | 12.597 | 12.558 | 35.12 | 4.924 | 26.575 | 0.508 |
| 300 | 12.502 | 12.462 | 35.114 | 4.902 | 26.589 | 0.523 |
| 325 | 11.962 | 11.919 | 35.041 | 4.877 | 26.637 | 0.560 |
| 350 | 11.584 | 11.539 | 34.991 | 4.853 | 26.67 | 0.597 |
| 375 | 11.301 | 11.254 | 34.953 | 4.867 | 26.693 | 0.633 |
| 400 | 10.773 | 10.724 | 34.891 | 4.876 | 26.741 | 0.669 |
| 425 | 10.304 | 10.254 | 34.83 | 4.839 | 26.776 | 0.703 |
| 450 | 10.023 | 9.97 | 34.792 | 4.819 | 26.795 | 0.737 |
| 475 | 9.326 | 9.273 | 34.709 | 4.791 | 26.847 | 0.770 |
| 500 | 8.772 | 8.718 | 34.651 | 4.763 | 26.89 | 0.802 |
| 550 | 7.57 | 7.516 | 34.528 | 4.794 | 26.974 | 0.862 |
| 600 | 6.651 | 6.595 | 34.449 | 4.847 | 27.04 | 0.919 |
| 650 | 5.687 | 5.631 | 34.364 | 5.057 | 27.096 | 0.973 |
| 700 | 5.226 | 5.168 | 34.36 | 4.898 | 27.148 | 1.024 |
| 750 | 5.145 | 5.083 | 34.406 | 3.829 | 27.195 | 1.072 |
| 800 | 4.732 | 4.668 | 34.389 | 4.072 | 27.229 | 1.119 |
| 850 | 4.355 | 4.289 | 34.373 | 4.216 | 27.257 | 1.165 |
| 900 | 3.976 | 3.909 | 34.374 | 4.5 | 27.298 | 1.208 |
| 950 | 3.709 | 3.64 | 34.397 | 4.313 | 27.343 | 1.250 |
| 1000 | 3.572 | 3.5 | 34.427 | 4.304 | 27.381 | 1.289 |
| 1100 | 3.369 | 3.291 | 34.494 | 4.003 | 27.454 | 1.363 |
| 1200 | 3.123 | 3.039 | 34.538 | 4.022 | 27.513 | 1.431 |
| 1300 | 3.114 | 3.022 | 34.614 | 4.068 | 27.575 | 1.494 |
| 1400 | 3.079 | 2.978 | 34.679 | 4.227 | 27.631 | 1.552 |
| 1500 | 3.151 | 3.041 | 34.739 | 4.405 | 27.673 | 1.606 |
| 1600 | 3.157 | 3.038 | 34.786 | 4.595 | 27.711 | 1.657 |
| 1700 | 3.152 | 3.024 | 34.822 | 4.782 | 27.741 | 1.706 |
| 1800 | 3.121 | 2.985 | 34.841 | 4.872 | 27.76 | 1.754 |
| 1900 | 3.074 | 2.93 | 34.852 | 4.947 | 27.774 | 1.801 |
| 2000 | 3.001 | 2.848 | 34.857 | 5.023 | 27.785 | 1.847 |
| 2100 | 2.915 | 2.755 | 34.859 | 5.106 | 27.795 | 1.892 |
| 2200 | 2.849 | 2.68 | 34.863 | 5.211 | 27.805 | 1.937 |
| 2205 | 2.845 | 2.676 | 34.863 | 5.2 | 27.805 | 1.939 |

| PR | TE | PT | SA | OX | RN |
|---|---|---|---|---|---|
| 3.5 | 15.905 | 15.905 | 35.524 | 5.724 | 15 |
| 99.6 | 15.650 | 15.635 | 35.494 | 5.518 | 13 |
| 300.3 | 12.527 | 12.487 | 35.110 | 4.990 | 11 |
| 650.6 | 5.794 | 5.738 | 34.375 | 4.972 | 9 |
| 699.9 | 5.244 | 5.186 | 34.358 | 4.864 | 8 |
| 1218.8 | 3.124 | 3.038 | 34.558 | 4.056 | 5 |
| 1501.2 | 3.138 | 3.028 | 34.741 | 4.439 | 4 |
| 1751.9 | 3.134 | 3.002 | 34.830 | 4.813 | 3 |
| 2000.1 | 2.997 | 2.845 | 34.854 | 5.023 | 2 |
| 2203.9 | 2.845 | 2.676 | 34.861 | 5.151 | 1 |


CTD sj970503
— Potential Temperature
0 5 10 15 20
Pressure
0 100 200 300 400 500 600 700 800 900 1000 1100 1200 1300 1400 1500 1600 1700 1800 1900 2000 2100 2200
34.5 35.0 35.5 36.0 36.5
---- Salinity
2 3 4 5 6
····· Oxygen


Potential Temperature
0 5 10 15 20
34.5 35.0 35.5 36.0 36.5
Salinity


Potential Temperature
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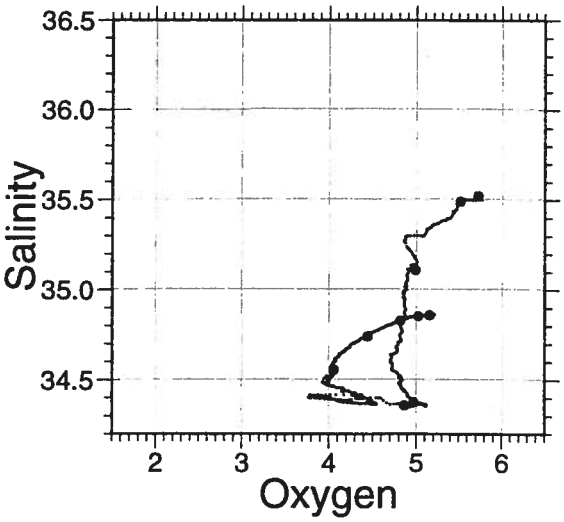
2 3 4 5 6
Oxygen

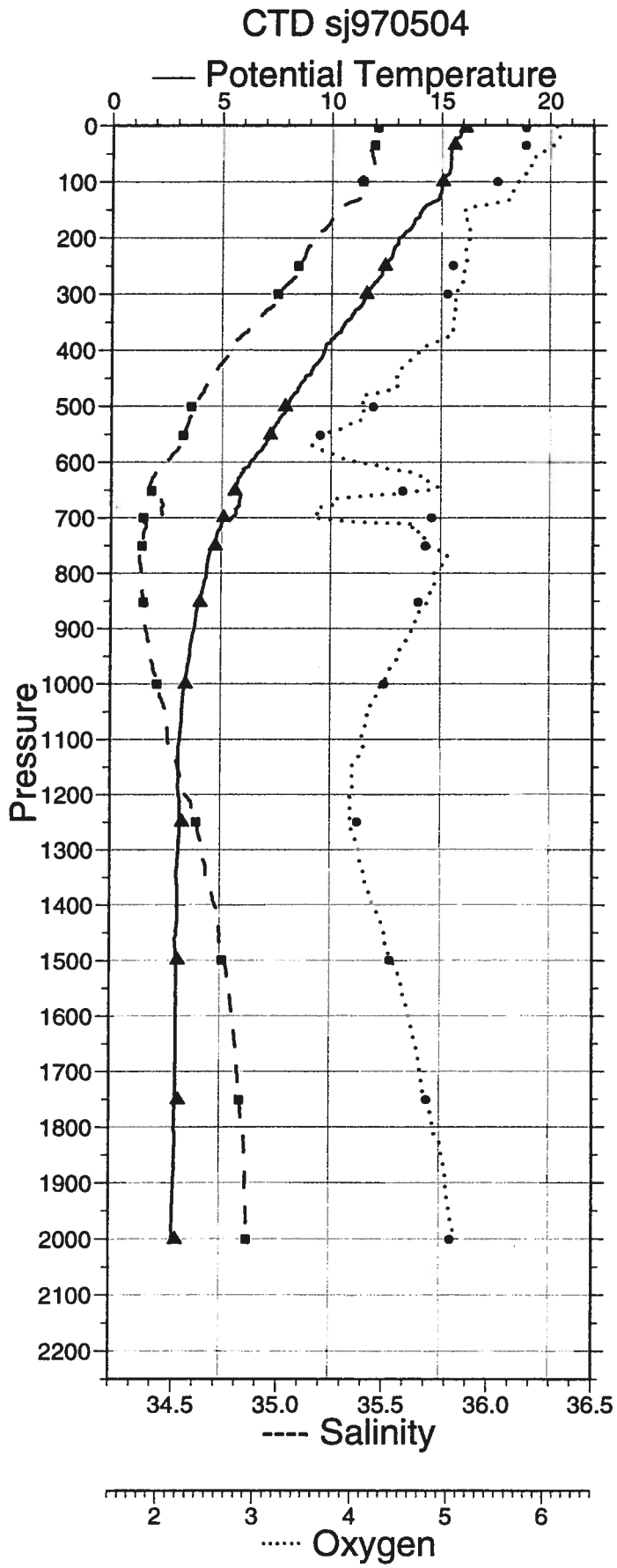

Salinity
34.5 35.0 35.5 36.0 36.5
2 3 4 5 6
Oxygen

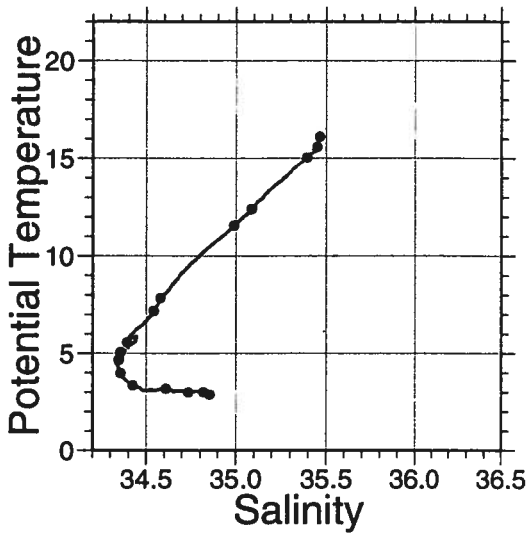
# station 4

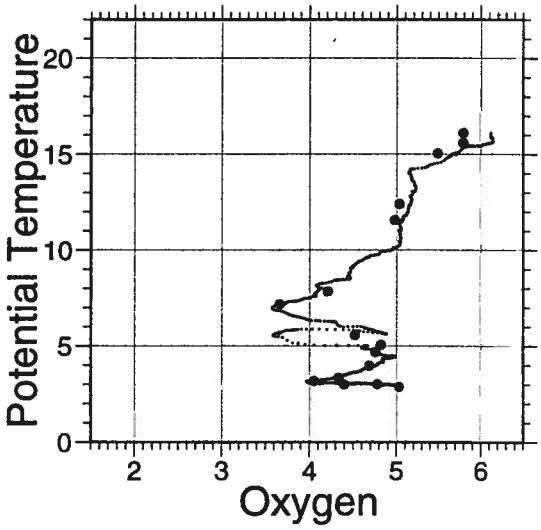
**lat. 30 0.07 S** **97/09/06**
**lon. 11 59.93 E** **11:05:36**

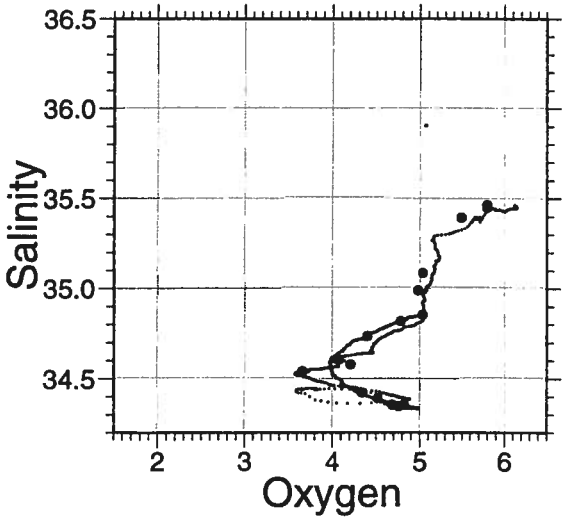
| PR | TE | PT | SA | OX | S0 | HZ |
|---|---|---|---|---|---|---|
| 0 | 16.031 | 16.031 | 35.461 | 6.117 | 26.096 | 0.000 |
| 10 | 15.943 | 15.942 | 35.455 | 6.117 | 26.112 | 0.019 |
| 20 | 15.843 | 15.839 | 35.456 | 6.14 | 26.136 | 0.038 |
| 30 | 15.625 | 15.62 | 35.446 | 6.129 | 26.178 | 0.056 |
| 40 | 15.518 | 15.512 | 35.438 | 6.031 | 26.197 | 0.075 |
| 50 | 15.447 | 15.44 | 35.436 | 5.902 | 26.211 | 0.093 |
| 60 | 15.453 | 15.443 | 35.444 | 5.877 | 26.216 | 0.111 |
| 70 | 15.443 | 15.432 | 35.447 | 5.85 | 26.221 | 0.129 |
| 80 | 15.405 | 15.392 | 35.444 | 5.825 | 26.228 | 0.147 |
| 90 | 15.189 | 15.175 | 35.404 | 5.754 | 26.246 | 0.165 |
| 100 | 15.032 | 15.017 | 35.379 | 5.711 | 26.261 | 0.183 |
| 110 | 15.036 | 15.019 | 35.394 | 5.678 | 26.272 | 0.201 |
| 120 | 15.002 | 14.983 | 35.396 | 5.656 | 26.282 | 0.219 |
| 130 | 14.895 | 14.875 | 35.376 | 5.625 | 26.29 | 0.236 |
| 140 | 14.46 | 14.439 | 35.313 | 5.394 | 26.336 | 0.254 |
| 150 | 14.155 | 14.133 | 35.283 | 5.16 | 26.378 | 0.271 |
| 160 | 14.042 | 14.018 | 35.267 | 5.143 | 26.39 | 0.287 |
| 170 | 13.819 | 13.794 | 35.239 | 5.172 | 26.416 | 0.304 |
| 180 | 13.696 | 13.67 | 35.222 | 5.176 | 26.428 | 0.321 |
| 190 | 13.401 | 13.374 | 35.185 | 5.214 | 26.461 | 0.337 |
| 200 | 13.109 | 13.081 | 35.158 | 5.219 | 26.5 | 0.353 |
| 210 | 13.079 | 13.05 | 35.153 | 5.188 | 26.502 | 0.369 |
| 220 | 12.885 | 12.855 | 35.131 | 5.17 | 26.524 | 0.384 |
| 230 | 12.819 | 12.788 | 35.121 | 5.165 | 26.53 | 0.400 |
| 240 | 12.648 | 12.616 | 35.108 | 5.176 | 26.554 | 0.416 |
| 250 | 12.424 | 12.39 | 35.091 | 5.164 | 26.585 | 0.431 |
| 260 | 12.361 | 12.327 | 35.082 | 5.145 | 26.59 | 0.446 |
| 270 | 12.237 | 12.202 | 35.067 | 5.142 | 26.603 | 0.461 |
| 280 | 11.999 | 11.962 | 35.039 | 5.128 | 26.627 | 0.476 |
| 290 | 11.786 | 11.749 | 35.012 | 5.079 | 26.647 | 0.490 |
| 300 | 11.647 | 11.608 | 34.996 | 5.079 | 26.661 | 0.505 |
| 325 | 11.29 | 11.249 | 34.954 | 5.041 | 26.695 | 0.541 |
| 350 | 10.694 | 10.652 | 34.876 | 5.05 | 26.742 | 0.576 |
| 375 | 10.196 | 10.152 | 34.812 | 4.997 | 26.78 | 0.610 |
| 400 | 9.732 | 9.686 | 34.759 | 4.69 | 26.817 | 0.643 |
| 425 | 9.366 | 9.318 | 34.72 | 4.538 | 26.848 | 0.676 |
| 450 | 8.862 | 8.813 | 34.671 | 4.447 | 26.891 | 0.707 |
| 475 | 8.459 | 8.409 | 34.636 | 4.281 | 26.926 | 0.738 |
| 500 | 8.071 | 8.019 | 34.6 | 4.139 | 26.957 | 0.768 |
| 550 | 7.269 | 7.216 | 34.543 | 3.732 | 27.029 | 0.825 |
| 600 | 6.384 | 6.33 | 34.459 | 4.069 | 27.083 | 0.880 |
| 650 | 5.743 | 5.687 | 34.396 | 4.781 | 27.115 | 0.932 |
| 700 | 5.556 | 5.496 | 34.422 | 3.615 | 27.159 | 0.982 |
| 750 | 4.733 | 4.674 | 34.349 | 4.799 | 27.196 | 1.031 |
| 800 | 4.392 | 4.33 | 34.343 | 4.844 | 27.229 | 1.077 |
| 850 | 4.097 | 4.033 | 34.354 | 4.78 | 27.269 | 1.122 |
| 900 | 3.862 | 3.795 | 34.367 | 4.613 | 27.304 | 1.165 |
| 950 | 3.652 | 3.583 | 34.39 | 4.467 | 27.343 | 1.206 |
| 1000 | 3.417 | 3.346 | 34.426 | 4.31 | 27.395 | 1.245 |
| 1100 | 3.242 | 3.164 | 34.474 | 4.104 | 27.45 | 1.318 |
| 1200 | 3.206 | 3.121 | 34.556 | 3.983 | 27.52 | 1.386 |
| 1300 | 3.216 | 3.122 | 34.639 | 4.068 | 27.586 | 1.448 |
| 1400 | 3.191 | 3.089 | 34.699 | 4.21 | 27.637 | 1.506 |
| 1500 | 3.155 | 3.045 | 34.748 | 4.417 | 27.68 | 1.559 |
| 1600 | 3.165 | 3.047 | 34.783 | 4.593 | 27.708 | 1.611 |
| 1700 | 3.16 | 3.032 | 34.808 | 4.717 | 27.729 | 1.661 |
| 1800 | 3.106 | 2.97 | 34.83 | 4.848 | 27.752 | 1.709 |
| 1900 | 3.09 | 2.945 | 34.848 | 4.983 | 27.769 | 1.756 |
| 2000 | 3.035 | 2.882 | 34.857 | 5.073 | 27.782 | 1.803 |

| PR | TE | PT | SA | OX | RN |
|---|---|---|---|---|---|
| 3.8 | 16.110 | 16.109 | 35.465 | 5.791 | 16 |
| 34.7 | 15.599 | 15.594 | 35.450 | 5.791 | 15 |
| 99.6 | 15.071 | 15.056 | 35.394 | 5.493 | 14 |
| 249.5 | 12.453 | 12.420 | 35.087 | 5.032 | 13 |
| 299.4 | 11.607 | 11.569 | 34.990 | 4.976 | 12 |
| 500.6 | 7.901 | 7.850 | 34.579 | 4.208 | 11 |
| 551.6 | 7.234 | 7.181 | 34.541 | 3.660 | 10 |
| 651.6 | 5.625 | 5.570 | 34.392 | 4.517 | 9 |
| 699.6 | 5.123 | 5.066 | 34.355 | 4.819 | 8 |
| 750.5 | 4.740 | 4.680 | 34.347 | 4.757 | 7 |
| 851.9 | 4.054 | 3.990 | 34.356 | 4.685 | 6 |
| 999.9 | 3.423 | 3.352 | 34.423 | 4.332 | 5 |
| 1249.6 | 3.268 | 3.177 | 34.610 | 4.052 | 4 |
| 1499.1 | 3.110 | 3.000 | 34.736 | 4.396 | 3 |
| 1750.5 | 3.142 | 3.011 | 34.819 | 4.779 | 2 |
| 2001.0 | 3.034 | 2.882 | 34.855 | 5.028 | 1 |


CTD sj970504
— Potential Temperature
0 5 10 15 20
Pressure
0 100 200 300 400 500 600 700 800 900 1000 1100 1200 1300 1400 1500 1600 1700 1800 1900 2000 2100 2200
34.5 35.0 35.5 36.0 36.5
---- Salinity
2 3 4 5 6
····· Oxygen


Potential Temperature
0 5 10 15 20
34.5 35.0 35.5 36.0 36.5
Salinity


Potential Temperature
0 5 10 15 20
2 3 4 5 6
Oxygen

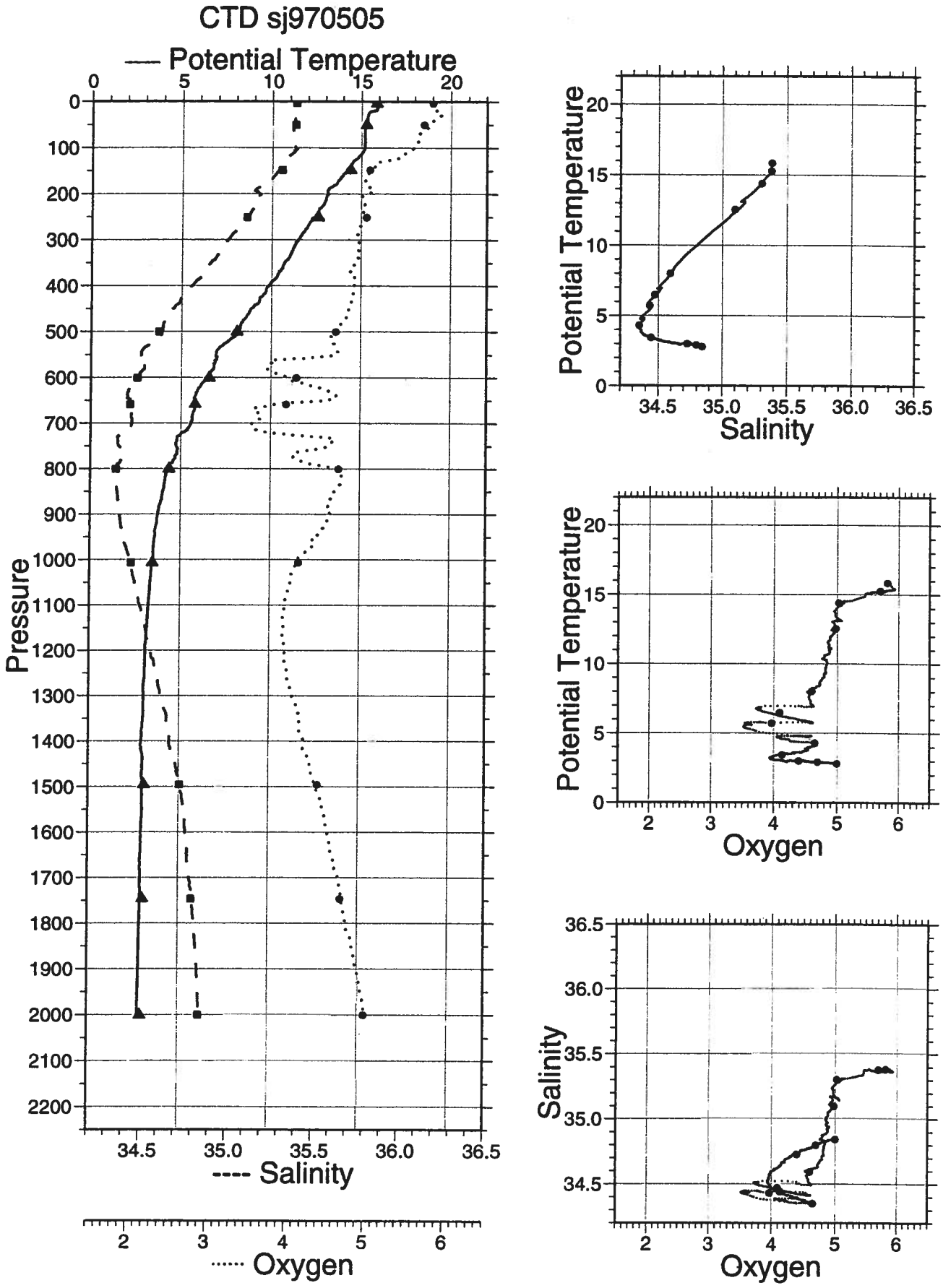

Salinity
34.5 35.0 35.5 36.0 36.5
2 3 4 5 6
Oxygen

# station 5

**lat. 30 0.07 S** **97/09/06**
**lon. 10 49.92 E** **17:52:07**

| PR | TE | PT | SA | OX | S0 | HZ |
|---|---|---|---|---|---|---|
| 0 | 15.889 | 15.889 | 35.389 | 5.843 | 26.073 | 0.000 |
| 10 | 15.93 | 15.928 | 35.394 | 5.837 | 26.068 | 0.019 |
| 20 | 15.633 | 15.63 | 35.384 | 5.883 | 26.128 | 0.038 |
| 30 | 15.375 | 15.37 | 35.364 | 5.915 | 26.171 | 0.057 |
| 40 | 15.331 | 15.325 | 35.378 | 5.835 | 26.192 | 0.075 |
| 50 | 15.262 | 15.254 | 35.368 | 5.782 | 26.2 | 0.094 |
| 60 | 15.219 | 15.21 | 35.367 | 5.73 | 26.209 | 0.112 |
| 70 | 15.205 | 15.195 | 35.37 | 5.652 | 26.215 | 0.130 |
| 80 | 15.209 | 15.197 | 35.37 | 5.637 | 26.215 | 0.148 |
| 90 | 15.211 | 15.197 | 35.374 | 5.618 | 26.218 | 0.166 |
| 100 | 15.199 | 15.183 | 35.38 | 5.57 | 26.225 | 0.185 |
| 110 | 15.078 | 15.061 | 35.37 | 5.471 | 26.245 | 0.203 |
| 120 | 14.863 | 14.844 | 35.338 | 5.44 | 26.267 | 0.221 |
| 130 | 14.556 | 14.537 | 35.312 | 5.158 | 26.314 | 0.238 |
| 140 | 14.409 | 14.388 | 35.299 | 5.092 | 26.336 | 0.255 |
| 150 | 14.208 | 14.186 | 35.28 | 5.034 | 26.365 | 0.273 |
| 160 | 14.006 | 13.983 | 35.26 | 4.984 | 26.392 | 0.289 |
| 170 | 13.792 | 13.768 | 35.234 | 4.951 | 26.417 | 0.306 |
| 180 | 13.581 | 13.555 | 35.208 | 4.968 | 26.441 | 0.322 |
| 190 | 13.198 | 13.171 | 35.153 | 5.052 | 26.477 | 0.339 |
| 200 | 13.156 | 13.128 | 35.17 | 4.988 | 26.499 | 0.355 |
| 210 | 13.049 | 13.02 | 35.173 | 4.922 | 26.524 | 0.370 |
| 220 | 12.957 | 12.927 | 35.164 | 4.95 | 26.535 | 0.386 |
| 230 | 12.775 | 12.743 | 35.144 | 4.965 | 26.556 | 0.401 |
| 240 | 12.583 | 12.55 | 35.123 | 4.936 | 26.578 | 0.416 |
| 250 | 12.425 | 12.392 | 35.102 | 4.931 | 26.593 | 0.432 |
| 260 | 12.185 | 12.15 | 35.068 | 4.926 | 26.614 | 0.447 |
| 270 | 12.022 | 11.986 | 35.056 | 4.902 | 26.636 | 0.461 |
| 280 | 11.861 | 11.824 | 35.032 | 4.886 | 26.648 | 0.476 |
| 290 | 11.691 | 11.653 | 35.011 | 4.861 | 26.664 | 0.490 |
| 300 | 11.516 | 11.478 | 34.989 | 4.857 | 26.68 | 0.505 |
| 325 | 11.164 | 11.123 | 34.941 | 4.896 | 26.708 | 0.540 |
| 350 | 10.755 | 10.712 | 34.889 | 4.861 | 26.741 | 0.575 |
| 375 | 10.379 | 10.334 | 34.841 | 4.778 | 26.771 | 0.609 |
| 400 | 9.879 | 9.832 | 34.779 | 4.829 | 26.808 | 0.643 |
| 425 | 9.409 | 9.361 | 34.723 | 4.821 | 26.843 | 0.675 |
| 450 | 8.912 | 8.863 | 34.671 | 4.758 | 26.883 | 0.707 |
| 475 | 8.451 | 8.401 | 34.627 | 4.713 | 26.92 | 0.738 |
| 500 | 8.143 | 8.091 | 34.609 | 4.582 | 26.953 | 0.768 |
| 550 | 6.971 | 6.919 | 34.495 | 4.584 | 27.032 | 0.825 |
| 600 | 6.457 | 6.402 | 34.472 | 3.976 | 27.084 | 0.880 |
| 650 | 5.856 | 5.799 | 34.438 | 4.451 | 27.134 | 0.931 |
| 700 | 5.591 | 5.531 | 34.437 | 3.533 | 27.166 | 0.981 |
| 750 | 4.803 | 4.743 | 34.365 | 4.519 | 27.201 | 1.029 |
| 800 | 4.36 | 4.299 | 34.349 | 4.606 | 27.237 | 1.075 |
| 850 | 4.091 | 4.027 | 34.358 | 4.588 | 27.273 | 1.120 |
| 900 | 3.825 | 3.759 | 34.373 | 4.537 | 27.312 | 1.163 |
| 950 | 3.669 | 3.6 | 34.397 | 4.302 | 27.347 | 1.203 |
| 1000 | 3.555 | 3.483 | 34.435 | 4.124 | 27.389 | 1.243 |
| 1100 | 3.358 | 3.279 | 34.495 | 3.966 | 27.456 | 1.316 |
| 1200 | 3.217 | 3.132 | 34.556 | 3.967 | 27.519 | 1.384 |
| 1300 | 3.147 | 3.054 | 34.617 | 4.064 | 27.574 | 1.446 |
| 1400 | 3.041 | 2.941 | 34.668 | 4.211 | 27.626 | 1.505 |
| 1500 | 3.111 | 3.001 | 34.731 | 4.367 | 27.67 | 1.559 |
| 1600 | 3.076 | 2.958 | 34.763 | 4.518 | 27.7 | 1.611 |
| 1700 | 3.053 | 2.927 | 34.788 | 4.664 | 27.723 | 1.661 |
| 1800 | 3.026 | 2.891 | 34.813 | 4.761 | 27.746 | 1.710 |
| 1900 | 2.998 | 2.855 | 34.835 | 4.9 | 27.767 | 1.757 |
| 2000 | 2.954 | 2.803 | 34.846 | 5.016 | 27.78 | 1.803 |

| PR | TE | PT | SA | OX | RN |
|---|---|---|---|---|---|
| 3.5 | 15.850 | 15.850 | 35.384 | 5.818 | 18 |
| 50.3 | 15.280 | 15.272 | 35.380 | 5.706 | 17 |
| 148.2 | 14.414 | 14.392 | 35.303 | 5.021 | 15 |
| 250.8 | 12.592 | 12.558 | 35.099 | 4.978 | 13 |
| 499.7 | 8.068 | 8.016 | 34.594 | 4.596 | 12 |
| 600.6 | 6.544 | 6.489 | 34.471 | 4.094 | 11 |
| 658.6 | 5.772 | 5.715 | 34.430 | 3.967 | 10 |
| 800.7 | 4.353 | 4.292 | 34.350 | 4.643 | 7 |
| 1006.6 | 3.498 | 3.426 | 34.442 | 4.135 | 5 |
| 1495.8 | 3.105 | 2.996 | 34.729 | 4.394 | 3 |
| 1746.3 | 3.052 | 2.922 | 34.799 | 4.694 | 2 |
| 2000.2 | 2.954 | 2.802 | 34.844 | 4.996 | 1 |

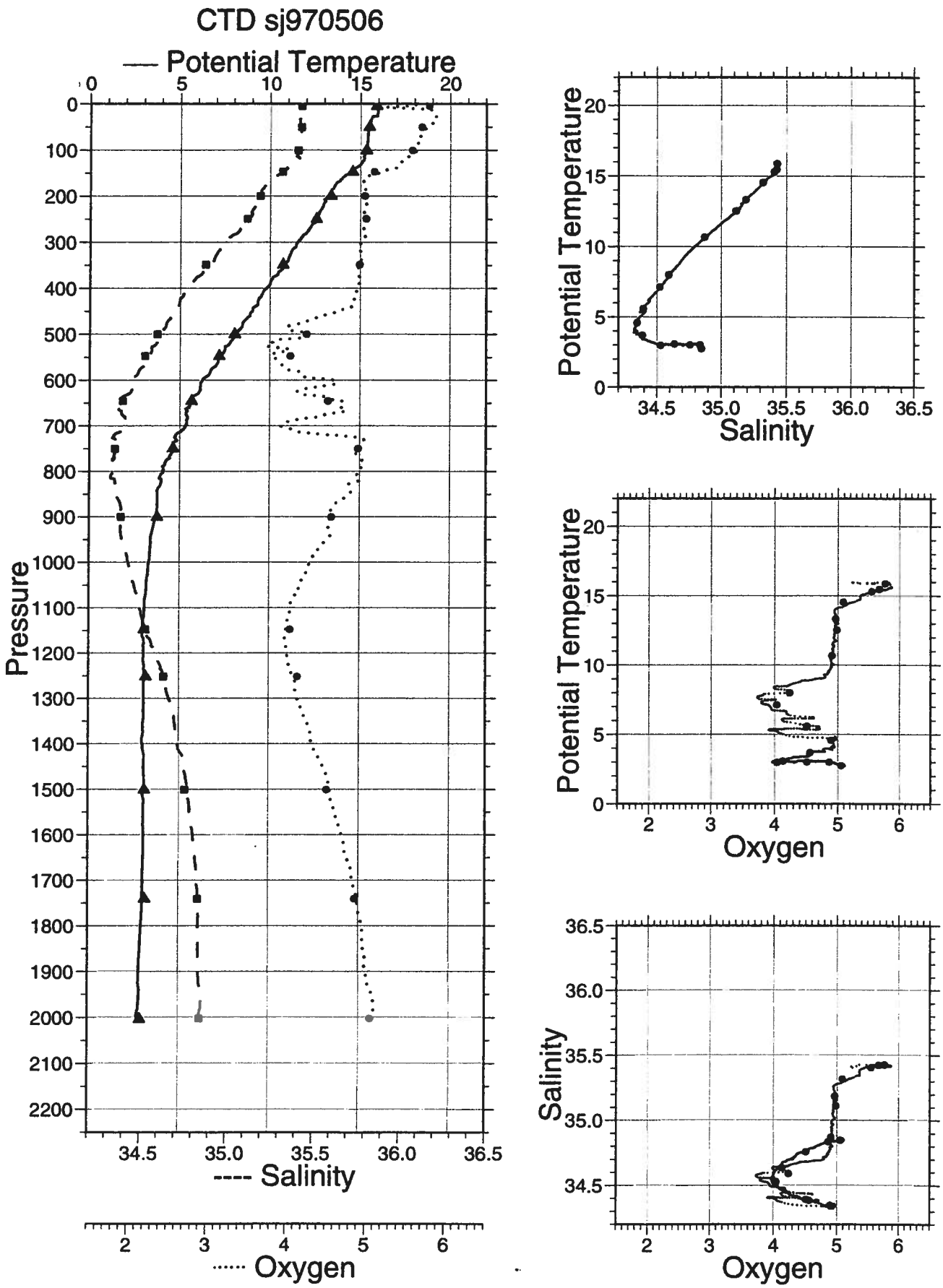

CTD sj970505
— Potential Temperature
0 5 10 15 20
Pressure
0 100 200 300 400 500 600 700 800 900 1000 1100 1200 1300 1400 1500 1600 1700 1800 1900 2000 2100 2200
34.5 35.0 35.5 36.0 36.5
---- Salinity
2 3 4 5 6
..... Oxygen
Potential Temperature
0 5 10 15 20
34.5 35.0 35.5 36.0 36.5
Salinity
Potential Temperature
0 5 10 15 20
2 3 4 5 6
Oxygen
Salinity
34.5 35.0 35.5 36.0 36.5
2 3 4 5 6
Oxygen

# station 6

**lat. 30 0.07 S** **97/09/07**
**lon. 9 40.13 E** **00:36:02**

| PR | TE | PT | SA | OX | S0 | HZ |
|---|---|---|---|---|---|---|
| 0 | 15.926 | 15.926 | 35.423 | 5.603 | 26.091 | 0.000 |
| 10 | 15.96 | 15.958 | 35.424 | 5.489 | 26.084 | 0.019 |
| 20 | 15.957 | 15.954 | 35.427 | 5.824 | 26.088 | 0.038 |
| 30 | 15.621 | 15.616 | 35.419 | 5.879 | 26.158 | 0.057 |
| 40 | 15.559 | 15.552 | 35.417 | 5.831 | 26.171 | 0.076 |
| 50 | 15.456 | 15.448 | 35.426 | 5.773 | 26.202 | 0.094 |
| 60 | 15.429 | 15.42 | 35.425 | 5.693 | 26.207 | 0.112 |
| 70 | 15.416 | 15.405 | 35.423 | 5.662 | 26.209 | 0.131 |
| 80 | 15.405 | 15.393 | 35.423 | 5.618 | 26.212 | 0.149 |
| 90 | 15.361 | 15.348 | 35.415 | 5.627 | 26.216 | 0.167 |
| 100 | 15.345 | 15.329 | 35.415 | 5.605 | 26.22 | 0.185 |
| 110 | 15.251 | 15.235 | 35.403 | 5.543 | 26.232 | 0.203 |
| 120 | 15.216 | 15.197 | 35.412 | 5.501 | 26.247 | 0.221 |
| 130 | 15.046 | 15.026 | 35.389 | 5.379 | 26.267 | 0.239 |
| 140 | 14.713 | 14.692 | 35.344 | 5.338 | 26.305 | 0.257 |
| 150 | 14.368 | 14.346 | 35.303 | 5.136 | 26.349 | 0.274 |
| 160 | 14.032 | 14.009 | 35.266 | 4.956 | 26.392 | 0.291 |
| 170 | 13.739 | 13.715 | 35.233 | 4.953 | 26.428 | 0.308 |
| 180 | 13.563 | 13.538 | 35.209 | 4.961 | 26.446 | 0.324 |
| 190 | 13.42 | 13.393 | 35.192 | 4.973 | 26.462 | 0.340 |
| 200 | 13.278 | 13.25 | 35.183 | 4.951 | 26.485 | 0.357 |
| 210 | 13.1 | 13.071 | 35.164 | 4.989 | 26.506 | 0.372 |
| 220 | 12.974 | 12.944 | 35.154 | 4.964 | 26.524 | 0.388 |
| 230 | 12.826 | 12.795 | 35.142 | 4.96 | 26.545 | 0.404 |
| 240 | 12.727 | 12.694 | 35.141 | 4.953 | 26.564 | 0.419 |
| 250 | 12.6 | 12.566 | 35.127 | 4.976 | 26.578 | 0.434 |
| 260 | 12.366 | 12.331 | 35.095 | 4.966 | 26.6 | 0.449 |
| 270 | 12.22 | 12.184 | 35.074 | 4.946 | 26.612 | 0.464 |
| 280 | 12.035 | 11.998 | 35.053 | 4.931 | 26.631 | 0.479 |
| 290 | 11.753 | 11.716 | 35.009 | 4.965 | 26.651 | 0.494 |
| 300 | 11.561 | 11.523 | 34.985 | 4.915 | 26.668 | 0.508 |
| 325 | 11.185 | 11.144 | 34.937 | 4.925 | 26.701 | 0.544 |
| 350 | 10.814 | 10.771 | 34.892 | 4.909 | 26.733 | 0.579 |
| 375 | 10.252 | 10.207 | 34.822 | 4.898 | 26.778 | 0.613 |
| 400 | 9.854 | 9.808 | 34.772 | 4.888 | 26.807 | 0.646 |
| 425 | 9.407 | 9.359 | 34.722 | 4.832 | 26.843 | 0.679 |
| 450 | 9.074 | 9.024 | 34.691 | 4.645 | 26.873 | 0.711 |
| 475 | 8.535 | 8.485 | 34.645 | 4.196 | 26.922 | 0.742 |
| 500 | 8.133 | 8.082 | 34.606 | 4.258 | 26.953 | 0.772 |
| 550 | 7.271 | 7.218 | 34.534 | 3.815 | 27.022 | 0.830 |
| 600 | 6.311 | 6.257 | 34.436 | 4.59 | 27.074 | 0.885 |
| 650 | 5.609 | 5.554 | 34.386 | 4.695 | 27.123 | 0.937 |
| 700 | 5.378 | 5.32 | 34.405 | 3.912 | 27.166 | 0.987 |
| 750 | 4.764 | 4.704 | 34.358 | 4.883 | 27.2 | 1.035 |
| 800 | 4.159 | 4.099 | 34.336 | 4.913 | 27.248 | 1.080 |
| 850 | 3.825 | 3.763 | 34.349 | 4.781 | 27.292 | 1.124 |
| 900 | 3.734 | 3.668 | 34.387 | 4.537 | 27.332 | 1.165 |
| 950 | 3.468 | 3.4 | 34.39 | 4.5 | 27.361 | 1.205 |
| 1000 | 3.387 | 3.316 | 34.425 | 4.283 | 27.397 | 1.244 |
| 1100 | 3.169 | 3.092 | 34.494 | 4.046 | 27.473 | 1.316 |
| 1200 | 3.13 | 3.045 | 34.588 | 4.005 | 27.552 | 1.381 |
| 1300 | 3.155 | 3.062 | 34.664 | 4.13 | 27.611 | 1.440 |
| 1400 | 3.105 | 3.004 | 34.713 | 4.315 | 27.656 | 1.495 |
| 1500 | 3.144 | 3.034 | 34.766 | 4.554 | 27.695 | 1.547 |
| 1600 | 3.2 | 3.08 | 34.807 | 4.698 | 27.724 | 1.597 |
| 1700 | 3.167 | 3.039 | 34.832 | 4.828 | 27.747 | 1.646 |
| 1800 | 3.087 | 2.951 | 34.839 | 4.947 | 27.761 | 1.693 |
| 1900 | 2.965 | 2.822 | 34.841 | 5.001 | 27.774 | 1.739 |
| 2000 | 2.881 | 2.73 | 34.847 | 5.083 | 27.787 | 1.784 |
| 2005 | 2.9 | 2.748 | 34.851 | 5.093 | 27.789 | 1.786 |

| PR | TE | PT | SA | OX | RN |
|---|---|---|---|---|---|
| 4.5 | 15.884 | 15.883 | 35.428 | 5.775 | 18 |
| 50.0 | 15.484 | 15.476 | 35.425 | 5.681 | 17 |
| 100.7 | 15.327 | 15.311 | 35.406 | 5.560 | 16 |
| 147.2 | 14.565 | 14.544 | 35.318 | 5.084 | 15 |
| 199.4 | 13.368 | 13.340 | 35.187 | 4.963 | 14 |
| 249.2 | 12.574 | 12.540 | 35.112 | 4.983 | 13 |
| 348.5 | 10.725 | 10.682 | 34.871 | 4.902 | 12 |
| 499.9 | 8.045 | 7.994 | 34.592 | 4.237 | 11 |
| 547.4 | 7.191 | 7.138 | 34.521 | 4.034 | 10 |
| 645.6 | 5.652 | 5.597 | 34.393 | 4.508 | 9 |
| 749.8 | 4.634 | 4.575 | 34.347 | 4.891 | 8 |
| 900.0 | 3.766 | 3.700 | 34.385 | 4.558 | 7 |
| 1147.5 | 3.059 | 2.979 | 34.529 | 4.040 | 5 |
| 1251.5 | 3.171 | 3.082 | 34.636 | 4.132 | 4 |
| 1500.7 | 3.123 | 3.014 | 34.760 | 4.506 | 3 |
| 1740.7 | 3.150 | 3.019 | 34.837 | 4.862 | 2 |
| 2003.4 | 2.898 | 2.747 | 34.848 | 5.052 | 1 |

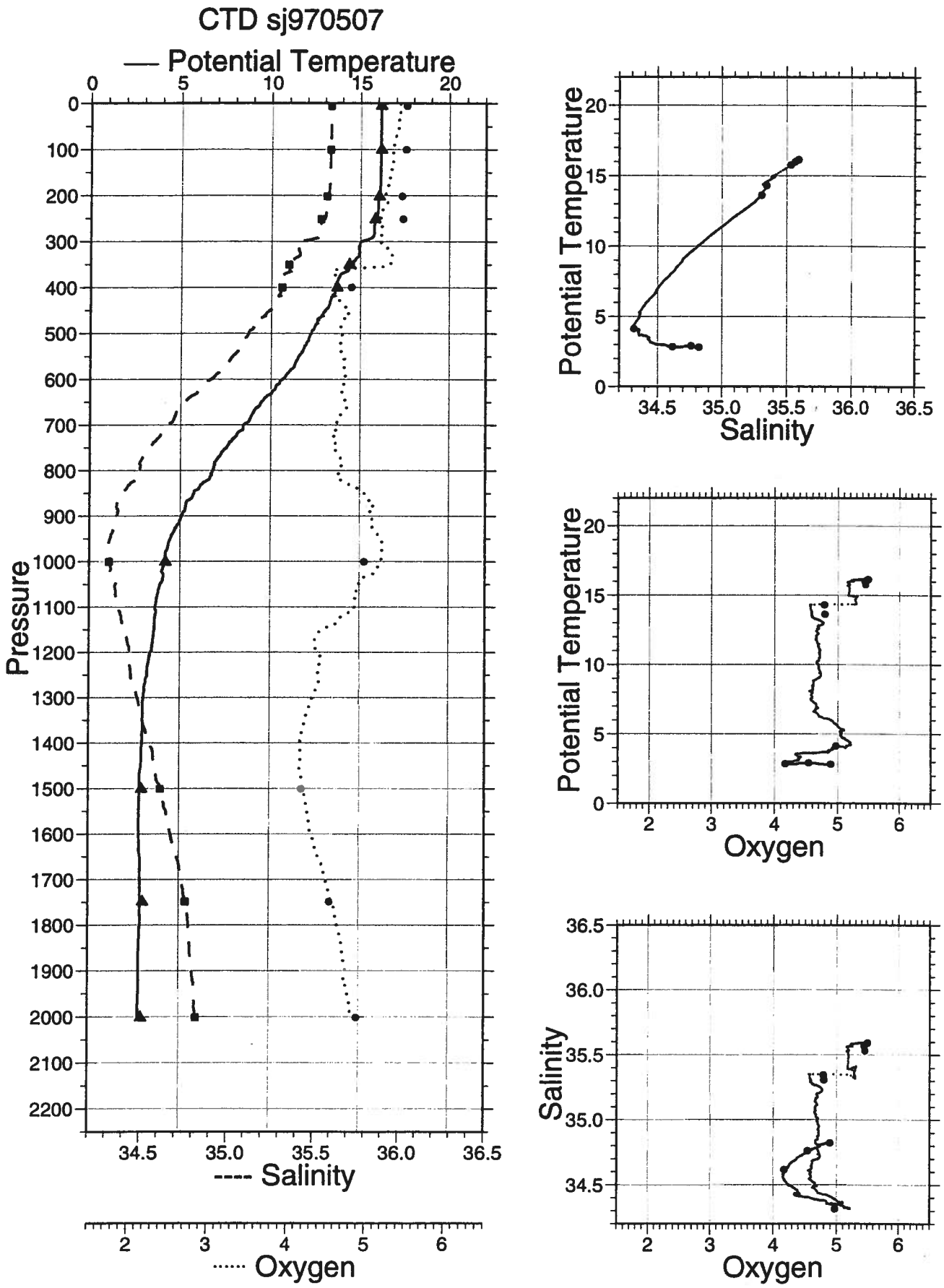

CTD sj970506
— Potential Temperature
Pressure
---- Salinity
····· Oxygen
Potential Temperature
Salinity
Potential Temperature
Oxygen
Salinity
Oxygen

# station 7

**lat. 30 58.73 S** **97/09/09**
**lon. 9 20.22 E** **01:05:26**

| PR | TE | PT | SA | OX | S0 | HZ |
|---|---|---|---|---|---|---|
| 0 | 16.15 | 16.15 | 35.592 | 5.418 | 26.169 | 0.000 |
| 10 | 16.151 | 16.149 | 35.59 | 5.422 | 26.168 | 0.018 |
| 20 | 16.153 | 16.15 | 35.591 | 5.412 | 26.169 | 0.037 |
| 30 | 16.15 | 16.146 | 35.591 | 5.41 | 26.17 | 0.055 |
| 40 | 16.152 | 16.146 | 35.592 | 5.392 | 26.17 | 0.074 |
| 50 | 16.156 | 16.148 | 35.591 | 5.386 | 26.169 | 0.092 |
| 60 | 16.157 | 16.147 | 35.592 | 5.368 | 26.17 | 0.111 |
| 70 | 16.159 | 16.147 | 35.591 | 5.355 | 26.169 | 0.129 |
| 80 | 16.165 | 16.153 | 35.591 | 5.352 | 26.168 | 0.148 |
| 90 | 16.164 | 16.149 | 35.591 | 5.336 | 26.169 | 0.167 |
| 100 | 16.155 | 16.139 | 35.589 | 5.34 | 26.17 | 0.185 |
| 110 | 16.164 | 16.146 | 35.59 | 5.319 | 26.169 | 0.204 |
| 120 | 16.165 | 16.146 | 35.59 | 5.324 | 26.169 | 0.223 |
| 130 | 16.16 | 16.139 | 35.589 | 5.323 | 26.17 | 0.242 |
| 140 | 16.155 | 16.133 | 35.587 | 5.319 | 26.17 | 0.260 |
| 150 | 16.154 | 16.13 | 35.587 | 5.31 | 26.17 | 0.279 |
| 160 | 16.15 | 16.124 | 35.586 | 5.284 | 26.171 | 0.298 |
| 170 | 16.147 | 16.119 | 35.585 | 5.272 | 26.171 | 0.317 |
| 180 | 16.14 | 16.111 | 35.584 | 5.245 | 26.172 | 0.336 |
| 190 | 16.126 | 16.096 | 35.581 | 5.222 | 26.174 | 0.355 |
| 200 | 16.045 | 16.013 | 35.566 | 5.229 | 26.181 | 0.374 |
| 210 | 16.042 | 16.008 | 35.566 | 5.245 | 26.182 | 0.393 |
| 220 | 16.035 | 16 | 35.566 | 5.229 | 26.184 | 0.412 |
| 230 | 16.026 | 15.989 | 35.566 | 5.195 | 26.186 | 0.431 |
| 240 | 16.003 | 15.964 | 35.563 | 5.161 | 26.19 | 0.450 |
| 250 | 15.953 | 15.913 | 35.555 | 5.171 | 26.195 | 0.469 |
| 260 | 15.829 | 15.788 | 35.534 | 5.185 | 26.208 | 0.488 |
| 270 | 15.817 | 15.775 | 35.531 | 5.186 | 26.209 | 0.507 |
| 280 | 15.816 | 15.772 | 35.534 | 5.189 | 26.212 | 0.526 |
| 290 | 15.727 | 15.681 | 35.522 | 5.167 | 26.223 | 0.544 |
| 300 | 15.1 | 15.054 | 35.408 | 5.177 | 26.275 | 0.563 |
| 325 | 14.984 | 14.935 | 35.41 | 5.307 | 26.303 | 0.609 |
| 350 | 14.457 | 14.405 | 35.317 | 5.295 | 26.347 | 0.653 |
| 375 | 13.899 | 13.845 | 35.309 | 4.59 | 26.459 | 0.697 |
| 400 | 13.672 | 13.614 | 35.306 | 4.58 | 26.505 | 0.738 |
| 425 | 13.399 | 13.338 | 35.273 | 4.628 | 26.536 | 0.779 |
| 450 | 13.077 | 13.014 | 35.234 | 4.774 | 26.572 | 0.819 |
| 475 | 12.632 | 12.567 | 35.168 | 4.686 | 26.61 | 0.858 |
| 500 | 12.294 | 12.227 | 35.115 | 4.688 | 26.635 | 0.896 |
| 550 | 11.593 | 11.522 | 35.019 | 4.681 | 26.695 | 0.972 |
| 600 | 10.691 | 10.617 | 34.894 | 4.717 | 26.762 | 1.044 |
| 650 | 9.52 | 9.445 | 34.743 | 4.727 | 26.845 | 1.113 |
| 700 | 8.548 | 8.473 | 34.646 | 4.6 | 26.924 | 1.178 |
| 750 | 7.613 | 7.537 | 34.547 | 4.571 | 26.986 | 1.239 |
| 800 | 6.849 | 6.773 | 34.489 | 4.642 | 27.048 | 1.297 |
| 850 | 5.819 | 5.744 | 34.393 | 4.968 | 27.105 | 1.352 |
| 900 | 5.165 | 5.089 | 34.359 | 5.062 | 27.157 | 1.404 |
| 950 | 4.545 | 4.47 | 34.321 | 5.174 | 27.196 | 1.453 |
| 1000 | 4.244 | 4.166 | 34.322 | 5.164 | 27.23 | 1.501 |
| 1100 | 3.734 | 3.653 | 34.357 | 4.849 | 27.31 | 1.590 |
| 1200 | 3.506 | 3.418 | 34.428 | 4.37 | 27.389 | 1.671 |
| 1300 | 3.143 | 3.05 | 34.481 | 4.311 | 27.466 | 1.745 |
| 1400 | 3.078 | 2.977 | 34.559 | 4.158 | 27.535 | 1.813 |
| 1500 | 2.956 | 2.848 | 34.616 | 4.194 | 27.592 | 1.875 |
| 1600 | 2.936 | 2.82 | 34.676 | 4.302 | 27.643 | 1.932 |
| 1700 | 3.011 | 2.885 | 34.738 | 4.49 | 27.686 | 1.986 |
| 1800 | 3.018 | 2.883 | 34.779 | 4.643 | 27.719 | 2.038 |
| 1900 | 2.967 | 2.825 | 34.8 | 4.74 | 27.742 | 2.087 |
| 2000 | 2.965 | 2.813 | 34.824 | 4.838 | 27.762 | 2.135 |

| PR | TE | PT | SA | OX | RN |
|---|---|---|---|---|---|
| 5.7 | 16.147 | 16.146 | 35.592 | 5.500 | 19 |
| 100.2 | 16.167 | 16.151 | 35.590 | 5.491 | 18 |
| 201.6 | 16.048 | 16.016 | 35.567 | 5.440 | 16 |
| 251.1 | 15.826 | 15.786 | 35.533 | 5.455 | 15 |
| 349.9 | 14.373 | 14.322 | 35.346 | 4.788 | 10 |
| 399.3 | 13.690 | 13.633 | 35.307 | 4.795 | 9 |
| 1000.2 | 4.216 | 4.139 | 34.316 | 4.969 | 5 |
| 1500.9 | 2.955 | 2.848 | 34.616 | 4.170 | 3 |
| 1748.7 | 3.040 | 2.910 | 34.762 | 4.540 | 2 |
| 2001.3 | 2.965 | 2.813 | 34.823 | 4.889 | 1 |

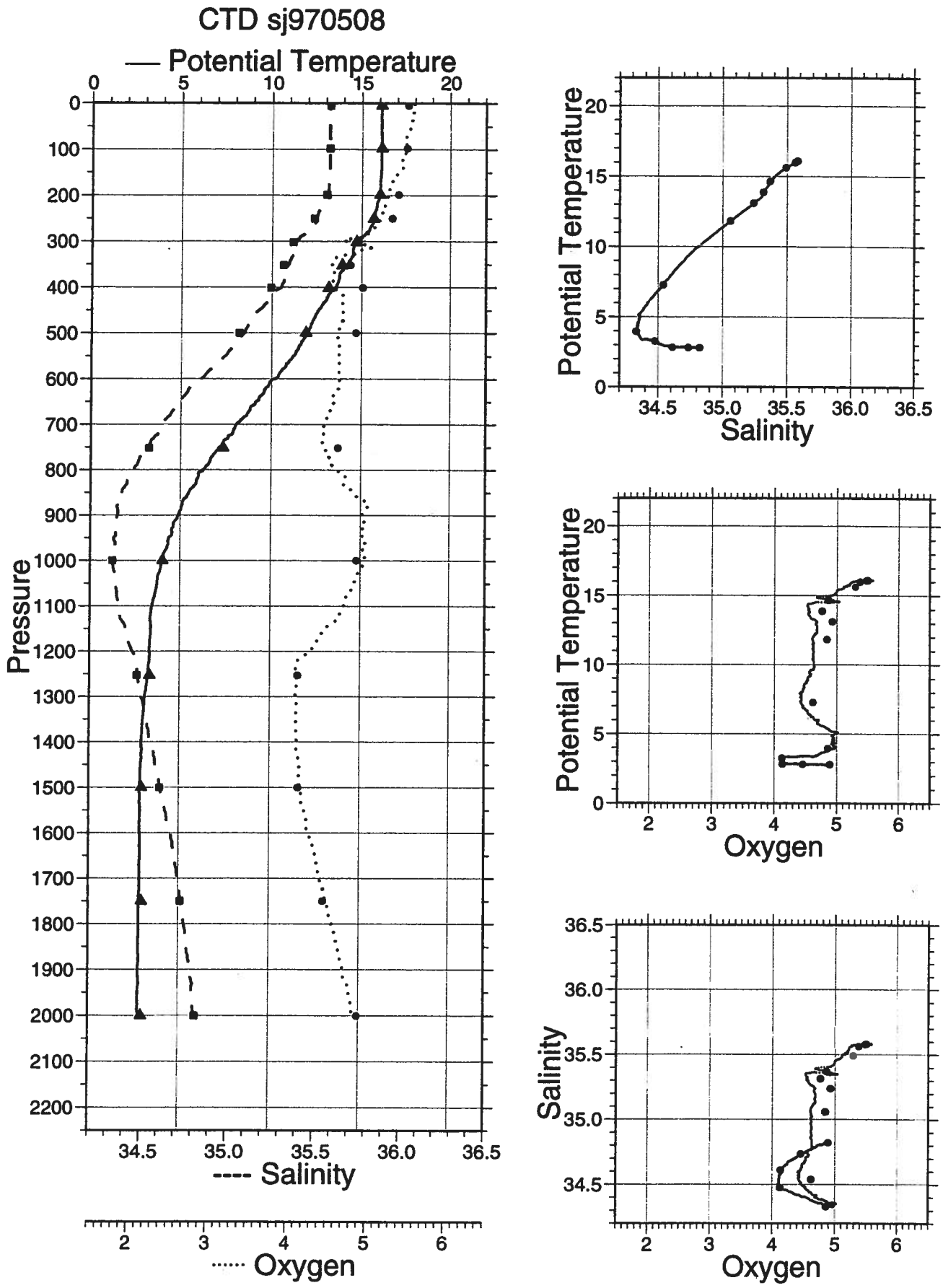

CTD sj970507
— Potential Temperature
Pressure
---- Salinity
····· Oxygen
Potential Temperature
Salinity
Potential Temperature
Oxygen
Salinity
Oxygen

# station 8

**lat. 30 49.80 S** **97/09/09**
**lon. 9 12.83 E** **03:56:04**

| PR | TE | PT | SA | OX | S0 | HZ |
|---|---|---|---|---|---|---|
| 0 | 16.1 | 16.1 | 35.581 | 5.579 | 26.173 | 0.000 |
| 10 | 16.1 | 16.099 | 35.578 | 5.589 | 26.171 | 0.018 |
| 20 | 16.097 | 16.094 | 35.578 | 5.567 | 26.172 | 0.037 |
| 30 | 16.099 | 16.094 | 35.579 | 5.557 | 26.172 | 0.055 |
| 40 | 16.099 | 16.093 | 35.579 | 5.532 | 26.173 | 0.074 |
| 50 | 16.105 | 16.097 | 35.579 | 5.52 | 26.172 | 0.092 |
| 60 | 16.102 | 16.093 | 35.579 | 5.509 | 26.173 | 0.111 |
| 70 | 16.109 | 16.098 | 35.579 | 5.492 | 26.172 | 0.129 |
| 80 | 16.112 | 16.099 | 35.579 | 5.48 | 26.171 | 0.148 |
| 90 | 16.113 | 16.099 | 35.579 | 5.48 | 26.171 | 0.166 |
| 100 | 16.114 | 16.098 | 35.58 | 5.479 | 26.172 | 0.185 |
| 110 | 16.112 | 16.094 | 35.579 | 5.461 | 26.172 | 0.204 |
| 120 | 16.112 | 16.093 | 35.578 | 5.447 | 26.172 | 0.223 |
| 130 | 16.115 | 16.094 | 35.579 | 5.41 | 26.172 | 0.241 |
| 140 | 16.109 | 16.086 | 35.578 | 5.433 | 26.173 | 0.260 |
| 150 | 16.102 | 16.078 | 35.577 | 5.38 | 26.175 | 0.279 |
| 160 | 16.089 | 16.063 | 35.577 | 5.314 | 26.178 | 0.298 |
| 170 | 16.065 | 16.038 | 35.573 | 5.294 | 26.181 | 0.317 |
| 180 | 16.065 | 16.036 | 35.573 | 5.262 | 26.181 | 0.335 |
| 190 | 16.055 | 16.025 | 35.571 | 5.263 | 26.182 | 0.354 |
| 200 | 16.015 | 15.983 | 35.563 | 5.255 | 26.186 | 0.373 |
| 210 | 15.972 | 15.938 | 35.553 | 5.222 | 26.188 | 0.392 |
| 220 | 15.88 | 15.845 | 35.535 | 5.209 | 26.196 | 0.411 |
| 230 | 15.841 | 15.805 | 35.527 | 5.194 | 26.199 | 0.430 |
| 240 | 15.771 | 15.733 | 35.512 | 5.161 | 26.203 | 0.449 |
| 250 | 15.72 | 15.681 | 35.504 | 5.16 | 26.209 | 0.468 |
| 260 | 15.67 | 15.629 | 35.497 | 5.107 | 26.215 | 0.486 |
| 270 | 15.509 | 15.467 | 35.468 | 5.072 | 26.23 | 0.505 |
| 280 | 15.318 | 15.274 | 35.441 | 4.996 | 26.252 | 0.524 |
| 290 | 15.079 | 15.034 | 35.408 | 4.928 | 26.28 | 0.542 |
| 300 | 14.88 | 14.834 | 35.388 | 4.715 | 26.308 | 0.560 |
| 325 | 14.585 | 14.537 | 35.356 | 4.892 | 26.348 | 0.605 |
| 350 | 14.25 | 14.199 | 35.341 | 4.534 | 26.409 | 0.648 |
| 375 | 13.819 | 13.764 | 35.307 | 4.554 | 26.475 | 0.691 |
| 400 | 13.604 | 13.546 | 35.3 | 4.563 | 26.514 | 0.732 |
| 425 | 13.125 | 13.065 | 35.236 | 4.681 | 26.563 | 0.772 |
| 450 | 12.68 | 12.618 | 35.173 | 4.686 | 26.604 | 0.811 |
| 475 | 12.331 | 12.267 | 35.123 | 4.659 | 26.634 | 0.850 |
| 500 | 12.082 | 12.016 | 35.087 | 4.62 | 26.654 | 0.888 |
| 550 | 11.302 | 11.231 | 34.978 | 4.623 | 26.717 | 0.962 |
| 600 | 10.253 | 10.181 | 34.835 | 4.632 | 26.792 | 1.033 |
| 650 | 9.245 | 9.171 | 34.714 | 4.573 | 26.867 | 1.100 |
| 700 | 8.157 | 8.083 | 34.611 | 4.46 | 26.956 | 1.164 |
| 750 | 7.234 | 7.161 | 34.53 | 4.436 | 27.026 | 1.223 |
| 800 | 6.328 | 6.254 | 34.442 | 4.591 | 27.079 | 1.279 |
| 850 | 5.549 | 5.475 | 34.38 | 4.822 | 27.128 | 1.332 |
| 900 | 4.971 | 4.897 | 34.356 | 4.918 | 27.177 | 1.383 |
| 950 | 4.442 | 4.368 | 34.336 | 4.928 | 27.219 | 1.431 |
| 1000 | 4.055 | 3.979 | 34.328 | 4.967 | 27.254 | 1.477 |
| 1100 | 3.542 | 3.462 | 34.365 | 4.7 | 27.335 | 1.563 |
| 1200 | 3.417 | 3.33 | 34.447 | 4.266 | 27.413 | 1.642 |
| 1300 | 3.177 | 3.084 | 34.502 | 4.103 | 27.48 | 1.714 |
| 1400 | 3.014 | 2.915 | 34.557 | 4.121 | 27.539 | 1.781 |
| 1500 | 2.934 | 2.827 | 34.613 | 4.161 | 27.592 | 1.842 |
| 1600 | 2.967 | 2.851 | 34.678 | 4.262 | 27.642 | 1.900 |
| 1700 | 2.971 | 2.846 | 34.719 | 4.414 | 27.675 | 1.955 |
| 1800 | 2.945 | 2.811 | 34.757 | 4.565 | 27.708 | 2.007 |
| 1900 | 2.925 | 2.784 | 34.788 | 4.705 | 27.736 | 2.057 |
| 2000 | 2.948 | 2.797 | 34.823 | 4.845 | 27.762 | 2.105 |

| PR | TE | PT | SA | OX | RN |
|---|---|---|---|---|---|
| 4.6 | 16.102 | 16.101 | 35.582 | 5.502 | 18 |
| 97.4 | 16.114 | 16.099 | 35.580 | 5.487 | 17 |
| 198.4 | 16.025 | 15.993 | 35.564 | 5.377 | 15 |
| 250.0 | 15.671 | 15.632 | 35.492 | 5.296 | 13 |
| 301.3 | 14.707 | 14.661 | 35.369 | 4.867 | 11 |
| 351.5 | 13.932 | 13.881 | 35.314 | 4.766 | 9 |
| 401.1 | 13.170 | 13.114 | 35.239 | 4.925 | 8 |
| 499.1 | 11.897 | 11.831 | 35.060 | 4.842 | 7 |
| 751.3 | 7.363 | 7.289 | 34.540 | 4.618 | 6 |
| 999.3 | 4.037 | 3.962 | 34.330 | 4.860 | 5 |
| 1252.5 | 3.351 | 3.261 | 34.476 | 4.126 | 4 |
| 1500.0 | 2.934 | 2.827 | 34.612 | 4.135 | 3 |
| 1749.7 | 2.950 | 2.821 | 34.736 | 4.457 | 2 |
| 2000.0 | 2.952 | 2.801 | 34.822 | 4.889 | 1 |

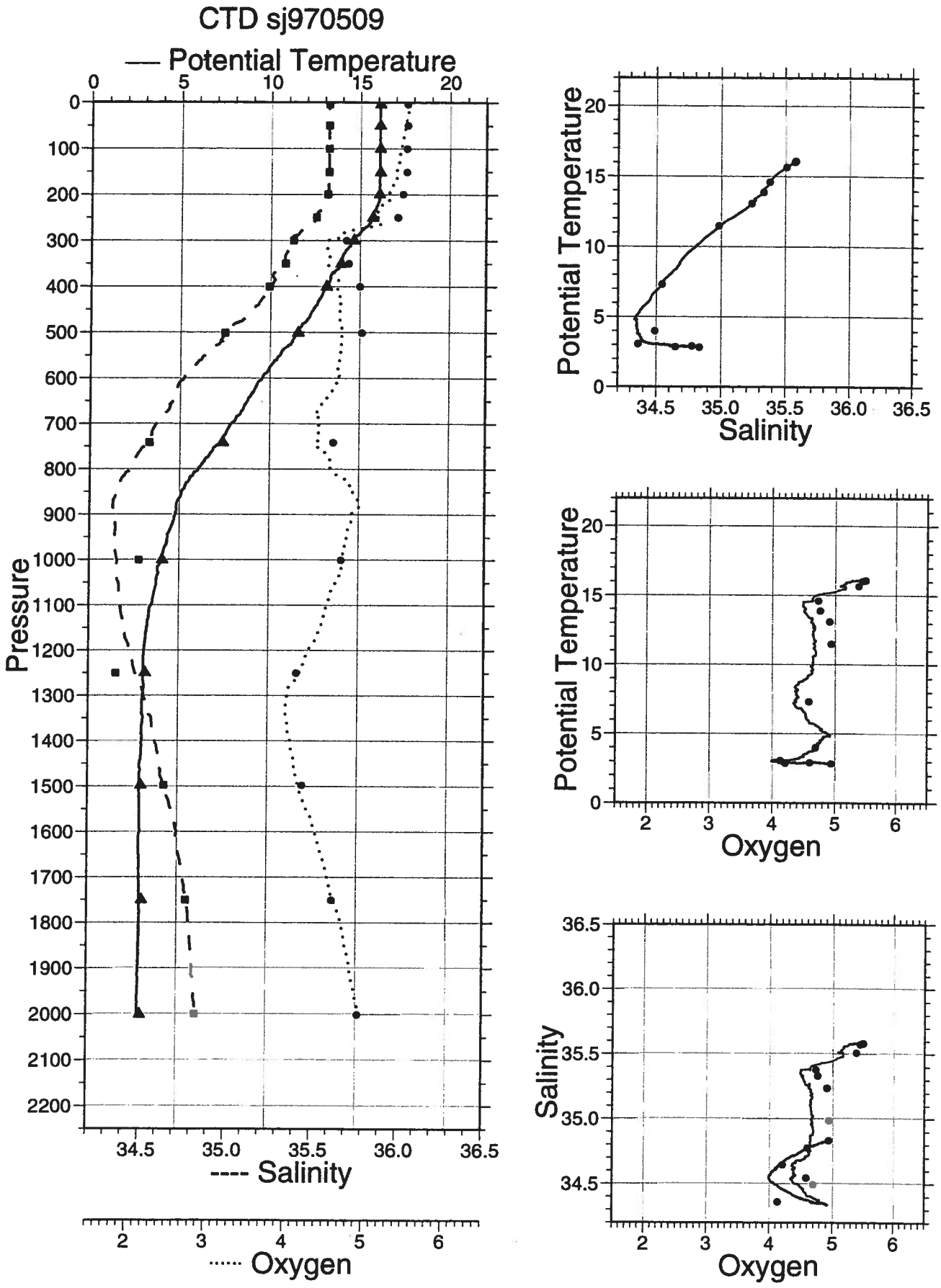

CTD sj970508
— Potential Temperature
0 5 10 15 20
Pressure
0 100 200 300 400 500 600 700 800 900 1000 1100 1200 1300 1400 1500 1600 1700 1800 1900 2000 2100 2200
34.5 35.0 35.5 36.0 36.5
---- Salinity
2 3 4 5 6
..... Oxygen
Potential Temperature
0 5 10 15 20
34.5 35.0 35.5 36.0 36.5
Salinity
Potential Temperature
0 5 10 15 20
2 3 4 5 6
Oxygen
Salinity
36.5 36.0 35.5 35.0 34.5
2 3 4 5 6
Oxygen

# station 9

**lat. 30 42.30 S** **97/09/09**
**lon. 9 7.02 E** **06:45:35**

| PR | TE | PT | SA | OX | S0 | HZ |
|---|---|---|---|---|---|---|
| 0 | 16.086 | 16.086 | 35.582 | 5.508 | 26.177 | 0.000 |
| 10 | 16.081 | 16.08 | 35.581 | 5.509 | 26.177 | 0.018 |
| 20 | 16.085 | 16.082 | 35.581 | 5.514 | 26.177 | 0.037 |
| 30 | 16.086 | 16.082 | 35.581 | 5.494 | 26.177 | 0.055 |
| 40 | 16.087 | 16.081 | 35.581 | 5.491 | 26.177 | 0.073 |
| 50 | 16.088 | 16.081 | 35.581 | 5.477 | 26.177 | 0.092 |
| 60 | 16.089 | 16.08 | 35.582 | 5.47 | 26.178 | 0.110 |
| 70 | 16.093 | 16.082 | 35.581 | 5.446 | 26.177 | 0.129 |
| 80 | 16.096 | 16.083 | 35.582 | 5.443 | 26.177 | 0.147 |
| 90 | 16.098 | 16.084 | 35.582 | 5.44 | 26.177 | 0.166 |
| 100 | 16.099 | 16.083 | 35.582 | 5.442 | 26.177 | 0.185 |
| 110 | 16.098 | 16.081 | 35.582 | 5.408 | 26.178 | 0.203 |
| 120 | 16.1 | 16.081 | 35.582 | 5.426 | 26.178 | 0.222 |
| 130 | 16.103 | 16.083 | 35.582 | 5.401 | 26.177 | 0.241 |
| 140 | 16.104 | 16.082 | 35.582 | 5.392 | 26.178 | 0.259 |
| 150 | 16.107 | 16.083 | 35.582 | 5.352 | 26.177 | 0.278 |
| 160 | 16.106 | 16.081 | 35.582 | 5.367 | 26.178 | 0.297 |
| 170 | 16.085 | 16.058 | 35.578 | 5.334 | 26.18 | 0.316 |
| 180 | 16.1 | 16.071 | 35.58 | 5.328 | 26.178 | 0.335 |
| 190 | 16.096 | 16.065 | 35.579 | 5.322 | 26.179 | 0.354 |
| 200 | 16.088 | 16.056 | 35.578 | 5.276 | 26.18 | 0.373 |
| 210 | 16.093 | 16.059 | 35.578 | 5.284 | 26.18 | 0.391 |
| 220 | 16.002 | 15.967 | 35.562 | 5.232 | 26.189 | 0.410 |
| 230 | 15.911 | 15.874 | 35.546 | 5.176 | 26.197 | 0.429 |
| 240 | 15.739 | 15.701 | 35.515 | 5.11 | 26.213 | 0.448 |
| 250 | 15.689 | 15.65 | 35.511 | 5.14 | 26.222 | 0.467 |
| 260 | 15.609 | 15.568 | 35.496 | 5.165 | 26.228 | 0.486 |
| 270 | 15.378 | 15.336 | 35.456 | 5.043 | 26.25 | 0.504 |
| 280 | 15.095 | 15.052 | 35.417 | 4.732 | 26.283 | 0.523 |
| 290 | 14.76 | 14.716 | 35.377 | 4.64 | 26.326 | 0.541 |
| 300 | 14.573 | 14.529 | 35.378 | 4.499 | 26.367 | 0.558 |
| 325 | 14.206 | 14.158 | 35.341 | 4.508 | 26.418 | 0.601 |
| 350 | 13.928 | 13.877 | 35.333 | 4.515 | 26.471 | 0.643 |
| 375 | 13.43 | 13.377 | 35.257 | 4.594 | 26.516 | 0.684 |
| 400 | 13.16 | 13.104 | 35.244 | 4.621 | 26.562 | 0.724 |
| 425 | 12.845 | 12.786 | 35.2 | 4.662 | 26.591 | 0.763 |
| 450 | 12.448 | 12.387 | 35.139 | 4.648 | 26.623 | 0.802 |
| 475 | 12.087 | 12.024 | 35.08 | 4.656 | 26.647 | 0.840 |
| 500 | 11.541 | 11.476 | 34.989 | 4.676 | 26.68 | 0.877 |
| 550 | 10.622 | 10.554 | 34.865 | 4.649 | 26.751 | 0.950 |
| 600 | 9.644 | 9.575 | 34.744 | 4.624 | 26.824 | 1.019 |
| 650 | 8.834 | 8.762 | 34.679 | 4.448 | 26.905 | 1.084 |
| 700 | 7.912 | 7.84 | 34.585 | 4.388 | 26.972 | 1.146 |
| 750 | 7.075 | 7.002 | 34.516 | 4.376 | 27.037 | 1.205 |
| 800 | 6.096 | 6.024 | 34.435 | 4.551 | 27.103 | 1.260 |
| 850 | 5.191 | 5.12 | 34.353 | 4.83 | 27.149 | 1.312 |
| 900 | 4.835 | 4.762 | 34.35 | 4.815 | 27.187 | 1.361 |
| 950 | 4.424 | 4.35 | 34.354 | 4.755 | 27.236 | 1.409 |
| 1000 | 4.099 | 4.023 | 34.362 | 4.69 | 27.276 | 1.454 |
| 1100 | 3.558 | 3.478 | 34.387 | 4.498 | 27.351 | 1.538 |
| 1200 | 3.18 | 3.095 | 34.442 | 4.292 | 27.431 | 1.615 |
| 1300 | 3.134 | 3.041 | 34.523 | 4.016 | 27.501 | 1.685 |
| 1400 | 3.088 | 2.988 | 34.592 | 4.06 | 27.561 | 1.750 |
| 1500 | 2.98 | 2.872 | 34.644 | 4.16 | 27.613 | 1.810 |
| 1600 | 3.045 | 2.928 | 34.719 | 4.376 | 27.667 | 1.866 |
| 1700 | 3.017 | 2.891 | 34.755 | 4.54 | 27.7 | 1.918 |
| 1800 | 3.054 | 2.919 | 34.795 | 4.706 | 27.729 | 1.969 |
| 1900 | 3.016 | 2.873 | 34.815 | 4.834 | 27.749 | 2.017 |
| 2000 | 2.986 | 2.834 | 34.835 | 4.946 | 27.769 | 2.065 |

| PR | TE | PT | SA | OX | RN |
|---|---|---|---|---|---|
| 3.6 | 16.093 | 16.093 | 35.582 | 5.504 | 16 |
| 49.8 | 16.090 | 16.082 | 35.582 | 5.507 | 15 |
| 99.9 | 16.096 | 16.080 | 35.582 | 5.500 | 14 |
| 151.3 | 16.105 | 16.081 | 35.582 | 5.498 | 13 |
| 199.0 | 16.072 | 16.040 | 35.575 | 5.451 | 12 |
| 249.6 | 15.704 | 15.664 | 35.510 | 5.388 | 11 |
| 299.2 | 14.651 | 14.606 | 35.377 | 4.732 | 10 |
| 350.0 | 13.939 | 13.888 | 35.331 | 4.764 | 9 |
| 399.8 | 13.136 | 13.080 | 35.238 | 4.911 | 8 |
| 500.7 | 11.550 | 11.485 | 34.982 | 4.936 | 7 |
| 741.4 | 7.397 | 7.323 | 34.545 | 4.582 | 6 |
| 1000.3 | 4.075 | 3.998 | 34.489 | 4.692 | 5 |
| 1249.8 | 3.158 | 3.069 | 34.360 | 4.132 | 4 |
| 1497.7 | 2.980 | 2.872 | 34.646 | 4.211 | 3 |
| 1749.9 | 3.047 | 2.917 | 34.776 | 4.600 | 2 |
| 2001.0 | 2.986 | 2.834 | 34.834 | 4.938 | 1 |

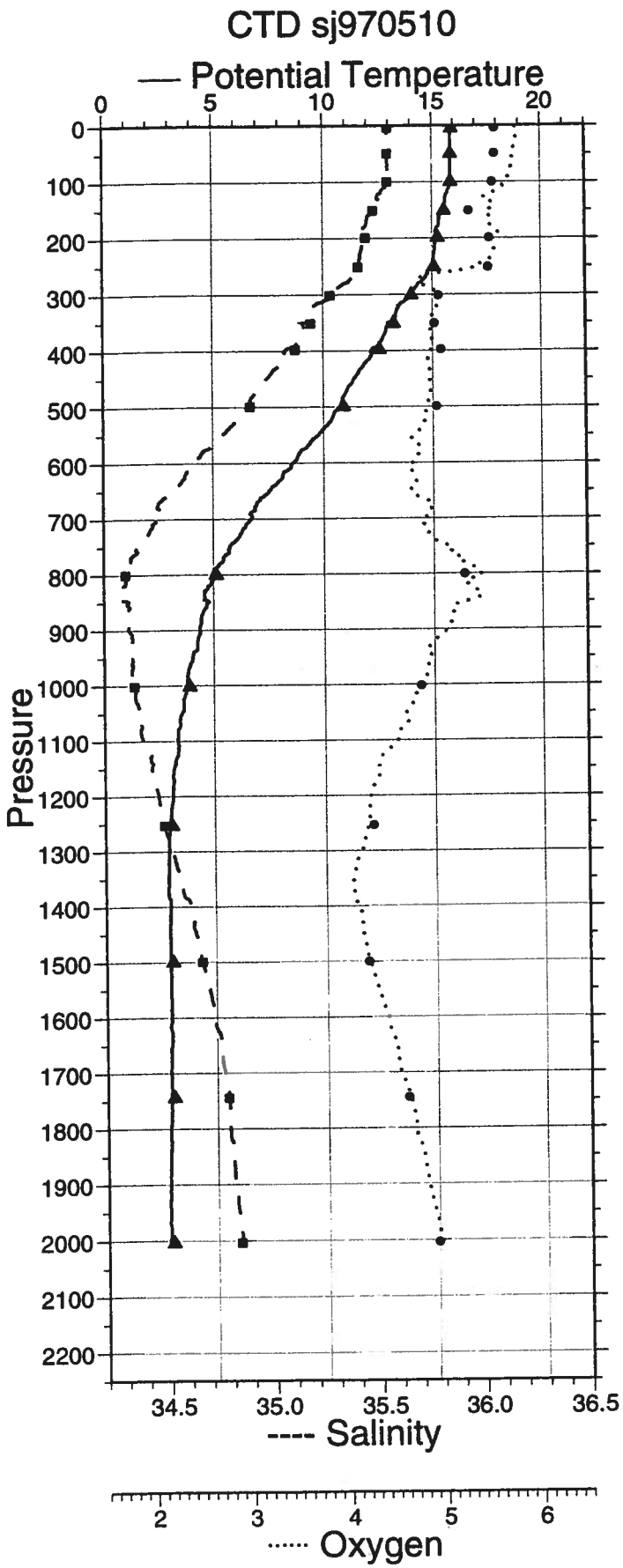

CTD sj970509
— Potential Temperature
0 5 10 15 20
Pressure
0 100 200 300 400 500 600 700 800 900 1000 1100 1200 1300 1400 1500 1600 1700 1800 1900 2000 2100 2200
34.5 35.0 35.5 36.0 36.5
---- Salinity
2 3 4 5 6
····· Oxygen
Potential Temperature
0 5 10 15 20
34.5 35.0 35.5 36.0 36.5
Salinity
Potential Temperature
0 5 10 15 20
2 3 4 5 6
Oxygen
Salinity
34.5 35.0 35.5 36.0 36.5
2 3 4 5 6
Oxygen

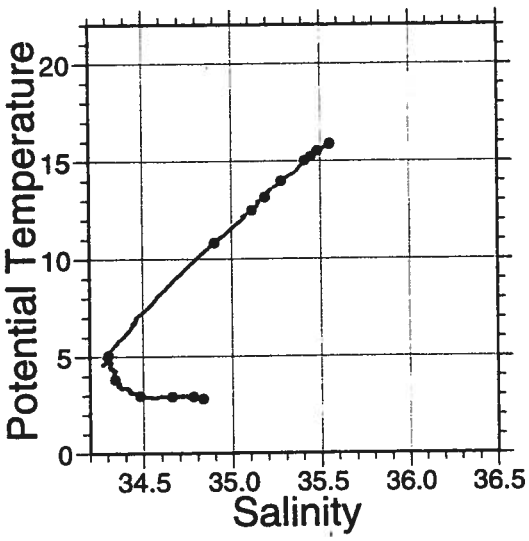
# station 10

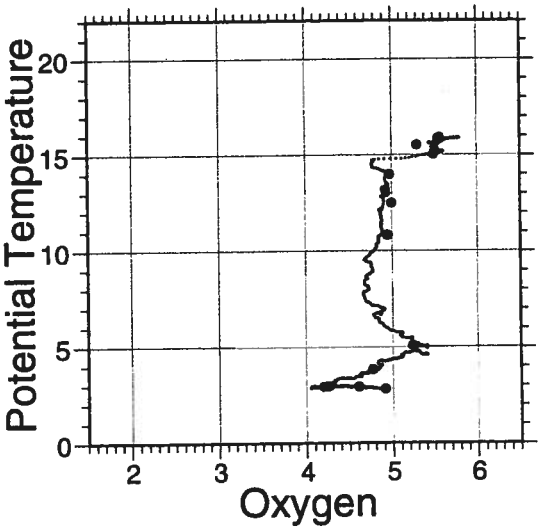
**lat. 30 31.73 S** **97/09/09**
**lon. 8 57.97 E** **09:20:09**

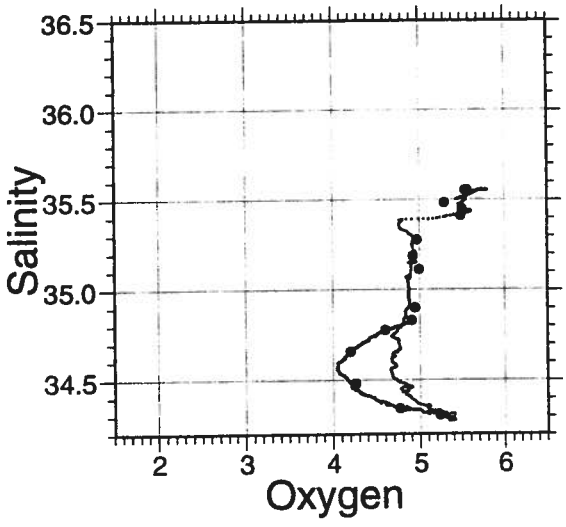
| PR | TE | PT | SA | OX | S0 | HZ |
|---|---|---|---|---|---|---|
| 0 | 15.903 | 15.903 | 35.555 | 5.787 | 26.198 | 0.000 |
| 10 | 15.883 | 15.881 | 35.554 | 5.793 | 26.202 | 0.018 |
| 20 | 15.884 | 15.881 | 35.555 | 5.791 | 26.203 | 0.036 |
| 30 | 15.882 | 15.877 | 35.555 | 5.791 | 26.204 | 0.054 |
| 40 | 15.881 | 15.875 | 35.554 | 5.765 | 26.204 | 0.072 |
| 50 | 15.885 | 15.877 | 35.555 | 5.751 | 26.204 | 0.091 |
| 60 | 15.885 | 15.876 | 35.556 | 5.762 | 26.205 | 0.109 |
| 70 | 15.888 | 15.877 | 35.556 | 5.735 | 26.205 | 0.127 |
| 80 | 15.888 | 15.875 | 35.556 | 5.74 | 26.205 | 0.145 |
| 90 | 15.884 | 15.87 | 35.555 | 5.718 | 26.205 | 0.164 |
| 100 | 15.873 | 15.857 | 35.551 | 5.697 | 26.205 | 0.182 |
| 110 | 15.844 | 15.827 | 35.544 | 5.646 | 26.207 | 0.200 |
| 120 | 15.745 | 15.726 | 35.522 | 5.548 | 26.213 | 0.219 |
| 130 | 15.636 | 15.615 | 35.505 | 5.451 | 26.225 | 0.237 |
| 140 | 15.609 | 15.587 | 35.505 | 5.564 | 26.231 | 0.255 |
| 150 | 15.489 | 15.466 | 35.48 | 5.501 | 26.239 | 0.274 |
| 160 | 15.379 | 15.354 | 35.461 | 5.508 | 26.25 | 0.292 |
| 170 | 15.349 | 15.323 | 35.454 | 5.543 | 26.251 | 0.310 |
| 180 | 15.273 | 15.245 | 35.443 | 5.543 | 26.26 | 0.328 |
| 190 | 15.207 | 15.178 | 35.432 | 5.603 | 26.267 | 0.346 |
| 200 | 15.236 | 15.205 | 35.444 | 5.543 | 26.27 | 0.364 |
| 210 | 15.18 | 15.148 | 35.434 | 5.566 | 26.275 | 0.382 |
| 220 | 15.161 | 15.127 | 35.43 | 5.567 | 26.276 | 0.400 |
| 230 | 15.119 | 15.084 | 35.423 | 5.542 | 26.28 | 0.418 |
| 240 | 15.084 | 15.048 | 35.418 | 5.508 | 26.285 | 0.436 |
| 250 | 15.059 | 15.021 | 35.415 | 5.415 | 26.288 | 0.454 |
| 260 | 14.836 | 14.797 | 35.394 | 5.057 | 26.321 | 0.472 |
| 270 | 14.736 | 14.696 | 35.381 | 4.791 | 26.333 | 0.490 |
| 280 | 14.399 | 14.357 | 35.343 | 4.778 | 26.377 | 0.508 |
| 290 | 14.216 | 14.174 | 35.307 | 4.896 | 26.388 | 0.525 |
| 300 | 13.946 | 13.903 | 35.263 | 4.971 | 26.412 | 0.542 |
| 325 | 13.44 | 13.394 | 35.205 | 4.938 | 26.472 | 0.584 |
| 350 | 12.996 | 12.948 | 35.147 | 4.938 | 26.518 | 0.624 |
| 375 | 12.783 | 12.732 | 35.144 | 4.908 | 26.559 | 0.664 |
| 400 | 12.23 | 12.177 | 35.065 | 4.888 | 26.606 | 0.703 |
| 425 | 11.89 | 11.834 | 35.036 | 4.877 | 26.649 | 0.741 |
| 450 | 11.443 | 11.386 | 34.978 | 4.88 | 26.688 | 0.778 |
| 475 | 11.07 | 11.011 | 34.924 | 4.885 | 26.715 | 0.814 |
| 500 | 10.779 | 10.717 | 34.886 | 4.839 | 26.738 | 0.849 |
| 550 | 9.813 | 9.749 | 34.767 | 4.733 | 26.813 | 0.919 |
| 600 | 8.662 | 8.597 | 34.637 | 4.691 | 26.898 | 0.984 |
| 650 | 7.623 | 7.558 | 34.535 | 4.682 | 26.974 | 1.045 |
| 700 | 6.784 | 6.718 | 34.457 | 4.796 | 27.03 | 1.103 |
| 750 | 5.824 | 5.758 | 34.358 | 5.066 | 27.076 | 1.159 |
| 800 | 5.002 | 4.937 | 34.282 | 5.403 | 27.113 | 1.211 |
| 850 | 4.838 | 4.769 | 34.318 | 5.247 | 27.161 | 1.262 |
| 900 | 4.446 | 4.375 | 34.319 | 5.035 | 27.205 | 1.310 |
| 950 | 4.104 | 4.032 | 34.336 | 4.86 | 27.255 | 1.357 |
| 1000 | 3.853 | 3.779 | 34.34 | 4.786 | 27.284 | 1.401 |
| 1100 | 3.425 | 3.346 | 34.383 | 4.519 | 27.36 | 1.484 |
| 1200 | 3.191 | 3.106 | 34.455 | 4.231 | 27.44 | 1.560 |
| 1300 | 3.003 | 2.912 | 34.52 | 4.137 | 27.51 | 1.629 |
| 1400 | 3.062 | 2.962 | 34.606 | 4.105 | 27.574 | 1.692 |
| 1500 | 3.04 | 2.931 | 34.66 | 4.208 | 27.62 | 1.751 |
| 1600 | 3.067 | 2.949 | 34.715 | 4.397 | 27.662 | 1.807 |
| 1700 | 3.045 | 2.919 | 34.758 | 4.531 | 27.699 | 1.860 |
| 1800 | 3.009 | 2.875 | 34.783 | 4.678 | 27.723 | 1.910 |
| 1900 | 2.978 | 2.835 | 34.808 | 4.807 | 27.747 | 1.959 |
| 2000 | 2.959 | 2.807 | 34.831 | 4.949 | 27.768 | 2.007 |

| PR | TE | PT | SA | OX | RN |
|---|---|---|---|---|---|
| 4.0 | 15.920 | 15.920 | 35.555 | 5.572 | 16 |
| 49.1 | 15.881 | 15.873 | 35.554 | 5.574 | 15 |
| 99.5 | 15.880 | 15.864 | 35.552 | 5.547 | 14 |
| 150.5 | 15.559 | 15.536 | 35.484 | 5.299 | 13 |
| 198.9 | 15.258 | 15.228 | 35.449 | 5.513 | 12 |
| 250.8 | 15.080 | 15.041 | 35.413 | 5.498 | 11 |
| 300.8 | 14.036 | 13.992 | 35.278 | 4.974 | 10 |
| 351.1 | 13.214 | 13.165 | 35.188 | 4.927 | 9 |
| 397.4 | 12.553 | 12.499 | 35.114 | 4.996 | 8 |
| 498.8 | 10.903 | 10.841 | 34.901 | 4.945 | 7 |
| 800.2 | 5.125 | 5.059 | 34.304 | 5.234 | 6 |
| 1001.2 | 3.904 | 3.829 | 34.343 | 4.768 | 5 |
| 1253.2 | 3.053 | 2.964 | 34.481 | 4.260 | 4 |
| 1499.9 | 3.039 | 2.931 | 34.658 | 4.202 | 3 |
| 1744.2 | 3.055 | 2.925 | 34.777 | 4.602 | 2 |
| 2003.9 | 2.976 | 2.824 | 34.832 | 4.909 | 1 |


CTD sj970510
— Potential Temperature
0 5 10 15 20
Pressure
0 100 200 300 400 500 600 700 800 900 1000 1100 1200 1300 1400 1500 1600 1700 1800 1900 2000 2100 2200
34.5 35.0 35.5 36.0 36.5
---- Salinity
2 3 4 5 6
····· Oxygen


Potential Temperature
0 5 10 15 20
34.5 35.0 35.5 36.0 36.5
Salinity


Potential Temperature
0 5 10 15 20
2 3 4 5 6
Oxygen

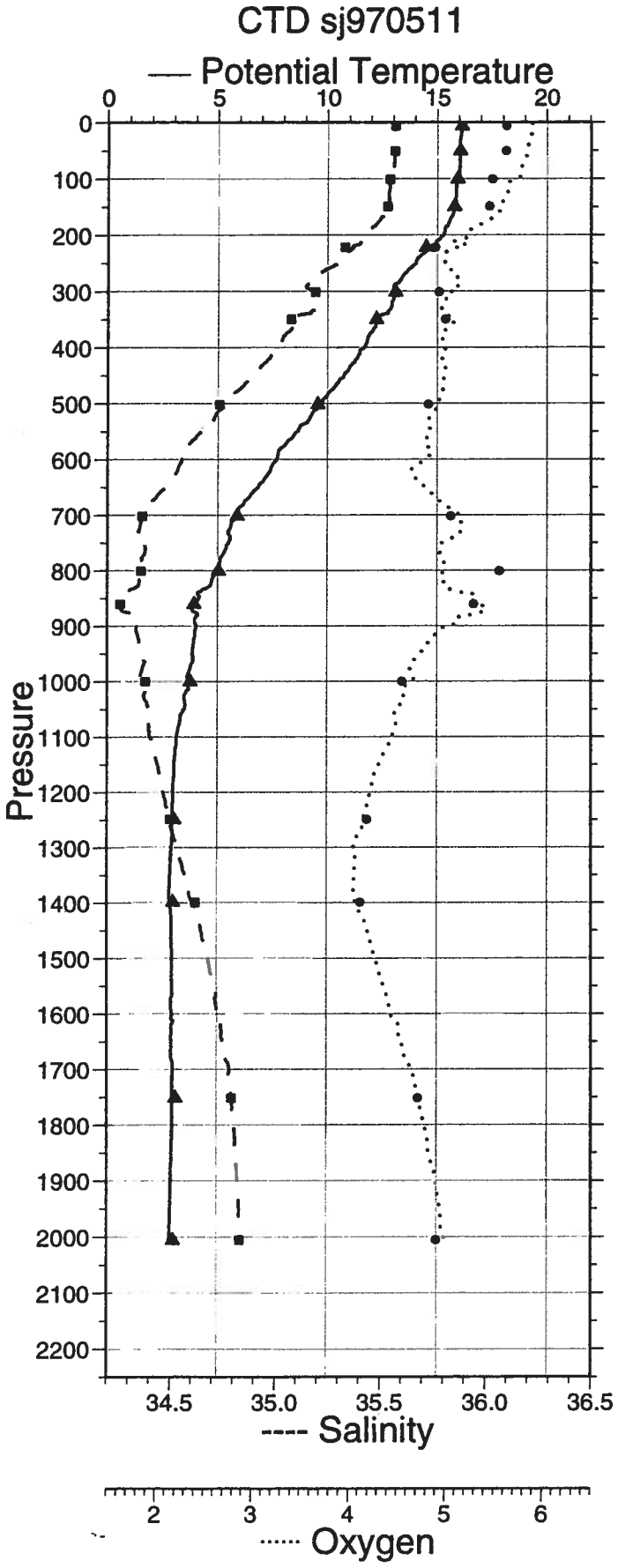

Salinity
34.5 35.0 35.5 36.0 36.5
2 3 4 5 6
Oxygen

# station 11

**lat. 30 18.00 S** **97/09/09**
**lon. 8 47.52 E** **12:12:49**

| PR | TE | PT | SA | OX | S0 | HZ |
|---|---|---|---|---|---|---|
| 0 | 16.109 | 16.109 | 35.566 | 5.894 | 26.159 | 0.000 |
| 10 | 16.107 | 16.105 | 35.564 | 5.894 | 26.158 | 0.018 |
| 20 | 16.091 | 16.088 | 35.564 | 5.884 | 26.162 | 0.037 |
| 30 | 16.048 | 16.043 | 35.563 | 5.867 | 26.172 | 0.055 |
| 40 | 16.04 | 16.033 | 35.562 | 5.853 | 26.173 | 0.074 |
| 50 | 16.039 | 16.031 | 35.562 | 5.842 | 26.174 | 0.092 |
| 60 | 16.042 | 16.033 | 35.563 | 5.834 | 26.174 | 0.111 |
| 70 | 16.036 | 16.025 | 35.562 | 5.811 | 26.175 | 0.129 |
| 80 | 16.033 | 16.02 | 35.561 | 5.778 | 26.176 | 0.148 |
| 90 | 16.028 | 16.014 | 35.56 | 5.766 | 26.176 | 0.167 |
| 100 | 15.95 | 15.934 | 35.551 | 5.718 | 26.188 | 0.185 |
| 110 | 15.892 | 15.874 | 35.54 | 5.65 | 26.193 | 0.204 |
| 120 | 15.883 | 15.864 | 35.539 | 5.638 | 26.194 | 0.222 |
| 130 | 15.872 | 15.851 | 35.536 | 5.601 | 26.195 | 0.241 |
| 140 | 15.863 | 15.841 | 35.539 | 5.582 | 26.2 | 0.259 |
| 150 | 15.835 | 15.811 | 35.536 | 5.586 | 26.204 | 0.278 |
| 160 | 15.772 | 15.747 | 35.525 | 5.539 | 26.21 | 0.296 |
| 170 | 15.637 | 15.611 | 35.499 | 5.473 | 26.221 | 0.315 |
| 180 | 15.536 | 15.508 | 35.478 | 5.37 | 26.228 | 0.333 |
| 190 | 15.39 | 15.361 | 35.453 | 5.259 | 26.242 | 0.352 |
| 200 | 15.321 | 15.29 | 35.443 | 5.229 | 26.25 | 0.370 |
| 210 | 15.046 | 15.014 | 35.41 | 5.1 | 26.286 | 0.388 |
| 220 | 14.746 | 14.713 | 35.365 | 5.191 | 26.317 | 0.406 |
| 230 | 14.504 | 14.47 | 35.339 | 5.006 | 26.35 | 0.423 |
| 240 | 14.188 | 14.153 | 35.3 | 4.985 | 26.387 | 0.440 |
| 250 | 14.06 | 14.024 | 35.29 | 4.985 | 26.407 | 0.457 |
| 260 | 13.751 | 13.714 | 35.241 | 5.023 | 26.434 | 0.474 |
| 270 | 13.524 | 13.486 | 35.201 | 5.114 | 26.45 | 0.491 |
| 280 | 13.351 | 13.312 | 35.188 | 5.129 | 26.476 | 0.507 |
| 290 | 13.064 | 13.023 | 35.144 | 5.113 | 26.5 | 0.523 |
| 300 | 13.095 | 13.053 | 35.181 | 5.072 | 26.523 | 0.539 |
| 325 | 12.99 | 12.945 | 35.196 | 4.972 | 26.556 | 0.579 |
| 350 | 12.277 | 12.231 | 35.078 | 5.095 | 26.606 | 0.617 |
| 375 | 11.982 | 11.933 | 35.047 | 5.007 | 26.639 | 0.655 |
| 400 | 11.724 | 11.672 | 35.005 | 4.978 | 26.656 | 0.692 |
| 425 | 11.287 | 11.233 | 34.954 | 4.968 | 26.698 | 0.728 |
| 450 | 10.786 | 10.73 | 34.89 | 4.994 | 26.739 | 0.764 |
| 475 | 10.277 | 10.22 | 34.825 | 4.969 | 26.778 | 0.799 |
| 500 | 9.756 | 9.698 | 34.759 | 4.906 | 26.815 | 0.833 |
| 550 | 8.694 | 8.634 | 34.644 | 4.835 | 26.898 | 0.897 |
| 600 | 7.727 | 7.666 | 34.551 | 4.796 | 26.971 | 0.958 |
| 650 | 6.904 | 6.842 | 34.472 | 4.786 | 27.025 | 1.016 |
| 700 | 5.868 | 5.806 | 34.365 | 5.134 | 27.075 | 1.071 |
| 750 | 5.555 | 5.491 | 34.382 | 4.963 | 27.128 | 1.124 |
| 800 | 5.014 | 4.949 | 34.36 | 4.96 | 27.174 | 1.174 |
| 850 | 4.214 | 4.149 | 34.292 | 5.314 | 27.208 | 1.222 |
| 900 | 4.092 | 4.024 | 34.334 | 5.014 | 27.254 | 1.267 |
| 950 | 3.918 | 3.847 | 34.359 | 4.744 | 27.292 | 1.311 |
| 1000 | 3.735 | 3.662 | 34.373 | 4.658 | 27.322 | 1.353 |
| 1100 | 3.22 | 3.143 | 34.402 | 4.452 | 27.395 | 1.433 |
| 1200 | 3.067 | 2.983 | 34.466 | 4.219 | 27.46 | 1.506 |
| 1300 | 3.001 | 2.91 | 34.532 | 4.051 | 27.52 | 1.573 |
| 1400 | 2.944 | 2.845 | 34.605 | 4.074 | 27.584 | 1.635 |
| 1500 | 3.052 | 2.943 | 34.683 | 4.277 | 27.637 | 1.693 |
| 1600 | 3.048 | 2.931 | 34.731 | 4.432 | 27.677 | 1.747 |
| 1700 | 3.118 | 2.991 | 34.781 | 4.655 | 27.711 | 1.799 |
| 1800 | 3.099 | 2.964 | 34.806 | 4.79 | 27.734 | 1.849 |
| 1900 | 3.041 | 2.897 | 34.822 | 4.899 | 27.753 | 1.898 |
| 2000 | 2.999 | 2.847 | 34.834 | 4.976 | 27.767 | 1.945 |
| 2005 | 2.994 | 2.841 | 34.835 | 5.003 | 27.768 | 1.948 |

| PR | TE | PT | SA | OX | RN |
|---|---|---|---|---|---|
| 6.1 | 16.118 | 16.117 | 35.567 | 5.621 | 16 |
| 50.6 | 16.041 | 16.032 | 35.565 | 5.614 | 15 |
| 100.5 | 15.925 | 15.909 | 35.542 | 5.478 | 14 |
| 149.3 | 15.783 | 15.759 | 35.530 | 5.451 | 13 |
| 221.6 | 14.494 | 14.461 | 35.329 | 4.891 | 12 |
| 301.1 | 13.087 | 13.045 | 35.186 | 4.929 | 11 |
| 349.6 | 12.230 | 12.183 | 35.071 | 4.996 | 10 |
| 501.4 | 9.544 | 9.487 | 34.730 | 4.819 | 9 |
| 701.4 | 5.888 | 5.827 | 34.364 | 5.052 | 8 |
| 800.3 | 5.036 | 4.970 | 34.358 | 5.551 | 7 |
| 860.2 | 3.927 | 3.864 | 34.262 | 5.290 | 6 |
| 999.7 | 3.763 | 3.689 | 34.381 | 4.551 | 5 |
| 1249.0 | 3.037 | 2.950 | 34.498 | 4.190 | 4 |
| 1398.6 | 2.989 | 2.889 | 34.620 | 4.121 | 3 |
| 1751.3 | 3.100 | 2.969 | 34.793 | 4.717 | 2 |
| 2006.0 | 2.995 | 2.842 | 34.833 | 4.907 | 1 |


CTD sj970511
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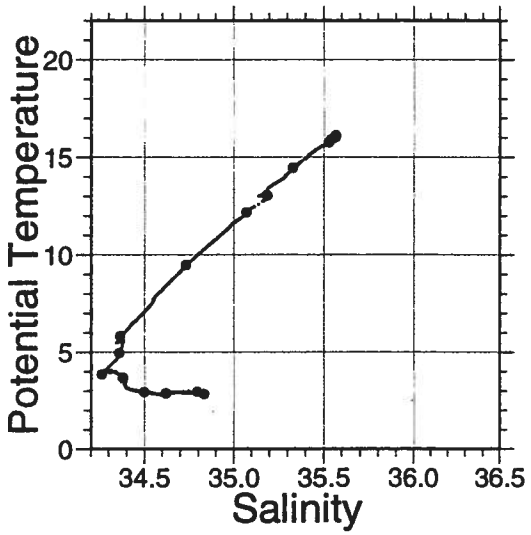
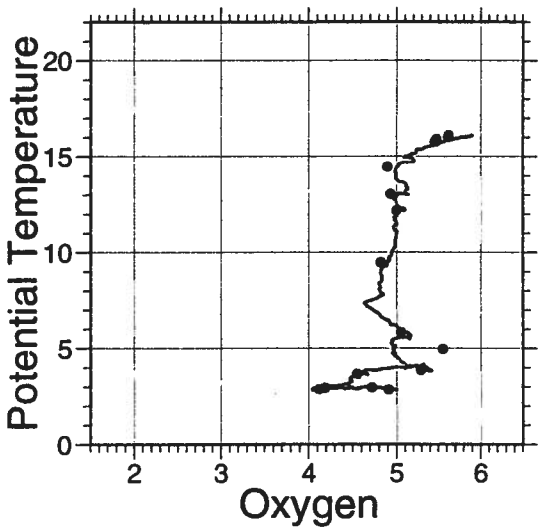
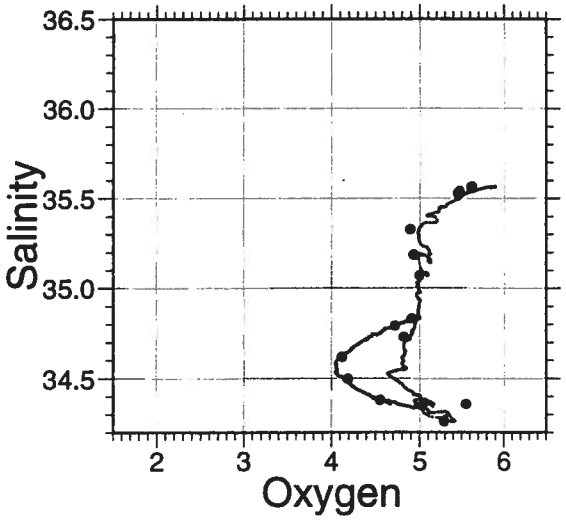
0 5 10 15 20
Pressure
0 100 200 300 400 500 600 700 800 900 1000 1100 1200 1300 1400 1500 1600 1700 1800 1900 2000 2100 2200
34.5 35.0 35.5 36.0 36.5
---- Salinity
2 3 4 5 6
····· Oxygen


Potential Temperature
0 5 10 15 20
34.5 35.0 35.5 36.0 36.5
Salinity


Potential Temperature
0 5 10 15 20
2 3 4 5 6
Oxygen

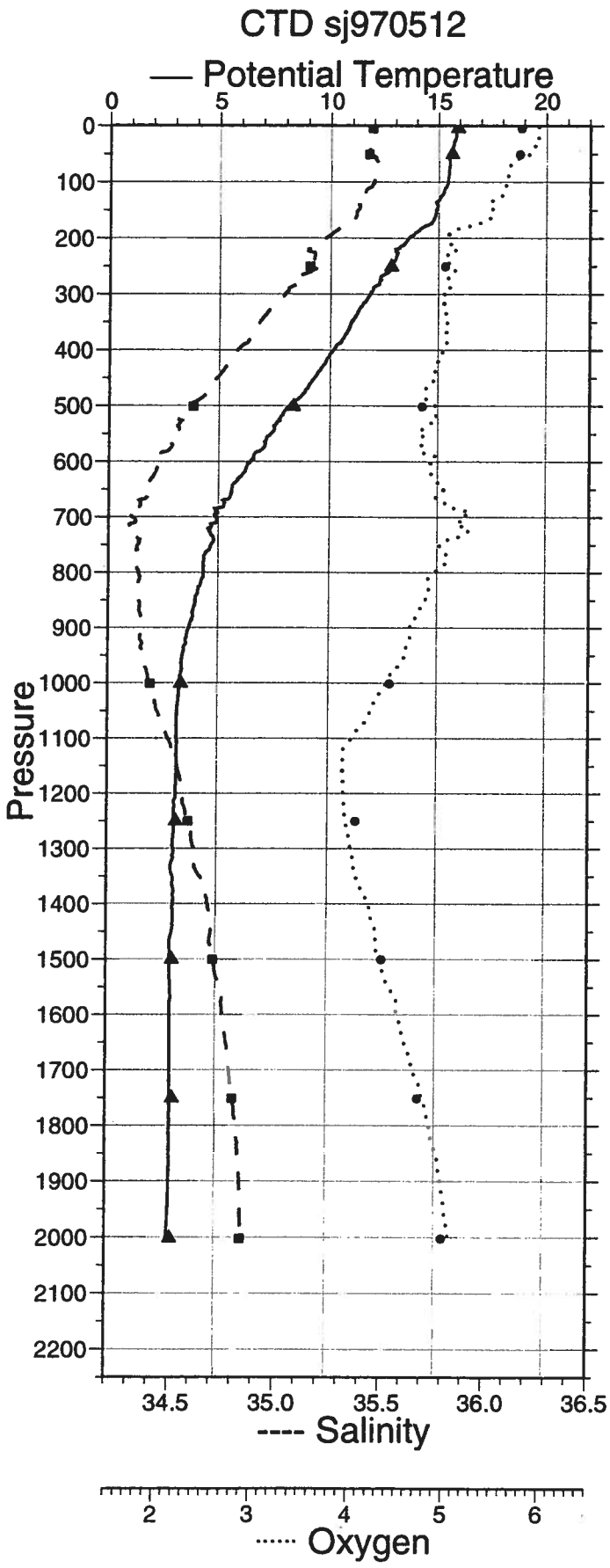

Salinity
34.5 35.0 35.5 36.0 36.5
2 3 4 5 6
Oxygen

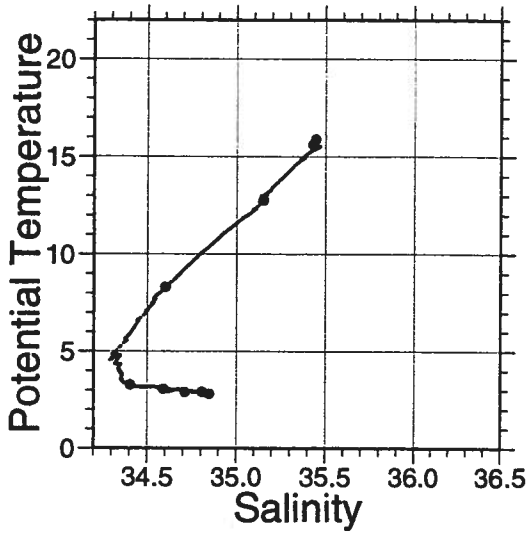
# station 12

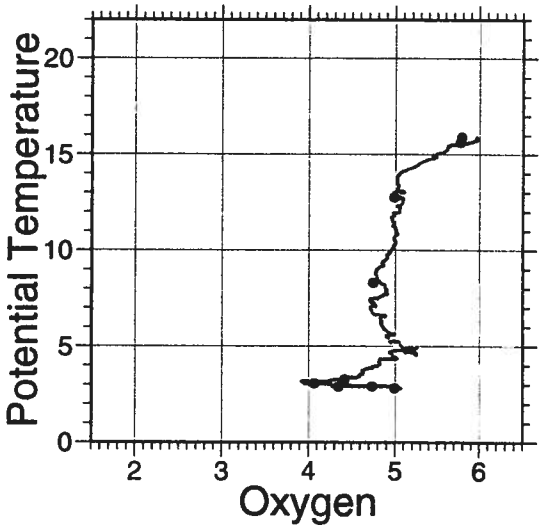
**lat. 30 0.12 S** **97/09/09**
**lon. 8 30.00 E** **15:38:51**

| PR | TE | PT | SA | OX | S0 | HZ |
|---|---|---|---|---|---|---|
| 0 | 15.871 | 15.871 | 35.438 | 5.964 | 26.115 | 0.000 |
| 10 | 15.836 | 15.834 | 35.43 | 5.965 | 26.117 | 0.019 |
| 20 | 15.816 | 15.813 | 35.432 | 5.96 | 26.124 | 0.038 |
| 30 | 15.727 | 15.723 | 35.43 | 5.962 | 26.143 | 0.057 |
| 40 | 15.684 | 15.678 | 35.431 | 5.927 | 26.154 | 0.075 |
| 50 | 15.632 | 15.624 | 35.434 | 5.873 | 26.168 | 0.094 |
| 60 | 15.51 | 15.501 | 35.459 | 5.722 | 26.215 | 0.112 |
| 70 | 15.54 | 15.529 | 35.47 | 5.665 | 26.217 | 0.130 |
| 80 | 15.516 | 15.503 | 35.465 | 5.66 | 26.219 | 0.148 |
| 90 | 15.493 | 15.479 | 35.46 | 5.648 | 26.221 | 0.167 |
| 100 | 15.458 | 15.442 | 35.452 | 5.624 | 26.223 | 0.185 |
| 110 | 15.353 | 15.336 | 35.431 | 5.622 | 26.231 | 0.203 |
| 120 | 15.25 | 15.232 | 35.409 | 5.605 | 26.237 | 0.221 |
| 130 | 15.071 | 15.051 | 35.383 | 5.507 | 26.257 | 0.239 |
| 140 | 14.953 | 14.932 | 35.372 | 5.446 | 26.275 | 0.257 |
| 150 | 14.917 | 14.894 | 35.371 | 5.481 | 26.282 | 0.275 |
| 160 | 14.887 | 14.863 | 35.367 | 5.469 | 26.286 | 0.293 |
| 170 | 14.764 | 14.738 | 35.35 | 5.386 | 26.3 | 0.310 |
| 180 | 14.326 | 14.299 | 35.299 | 5.199 | 26.355 | 0.328 |
| 190 | 13.957 | 13.929 | 35.258 | 5.043 | 26.402 | 0.345 |
| 200 | 13.651 | 13.623 | 35.222 | 5.02 | 26.438 | 0.361 |
| 210 | 13.447 | 13.417 | 35.198 | 5.035 | 26.462 | 0.378 |
| 220 | 13.033 | 13.003 | 35.142 | 5.062 | 26.503 | 0.394 |
| 230 | 13.097 | 13.065 | 35.171 | 5.008 | 26.513 | 0.409 |
| 240 | 12.995 | 12.962 | 35.162 | 4.988 | 26.527 | 0.425 |
| 250 | 12.737 | 12.703 | 35.129 | 5.047 | 26.553 | 0.441 |
| 260 | 12.729 | 12.694 | 35.151 | 5.094 | 26.572 | 0.456 |
| 270 | 12.339 | 12.303 | 35.093 | 5.026 | 26.603 | 0.471 |
| 280 | 12.283 | 12.246 | 35.098 | 5.054 | 26.618 | 0.486 |
| 290 | 11.982 | 11.944 | 35.049 | 4.999 | 26.638 | 0.501 |
| 300 | 11.864 | 11.825 | 35.032 | 4.977 | 26.648 | 0.515 |
| 325 | 11.39 | 11.349 | 34.966 | 4.985 | 26.686 | 0.552 |
| 350 | 11.002 | 10.959 | 34.914 | 5.013 | 26.717 | 0.587 |
| 375 | 10.702 | 10.656 | 34.877 | 4.985 | 26.742 | 0.622 |
| 400 | 10.185 | 10.138 | 34.81 | 4.97 | 26.78 | 0.656 |
| 425 | 9.789 | 9.74 | 34.765 | 4.9 | 26.813 | 0.689 |
| 450 | 9.35 | 9.299 | 34.714 | 4.851 | 26.846 | 0.722 |
| 475 | 8.937 | 8.885 | 34.668 | 4.775 | 26.877 | 0.754 |
| 500 | 8.24 | 8.188 | 34.587 | 4.882 | 26.922 | 0.785 |
| 550 | 7.414 | 7.36 | 34.521 | 4.711 | 26.991 | 0.844 |
| 600 | 6.518 | 6.462 | 34.445 | 4.827 | 27.054 | 0.900 |
| 650 | 5.685 | 5.63 | 34.377 | 4.978 | 27.107 | 0.953 |
| 700 | 4.926 | 4.87 | 34.313 | 5.179 | 27.146 | 1.004 |
| 750 | 4.758 | 4.698 | 34.342 | 4.932 | 27.188 | 1.053 |
| 800 | 4.396 | 4.334 | 34.344 | 4.882 | 27.229 | 1.099 |
| 850 | 4.027 | 3.963 | 34.342 | 4.788 | 27.267 | 1.144 |
| 900 | 3.754 | 3.689 | 34.355 | 4.632 | 27.305 | 1.187 |
| 950 | 3.478 | 3.411 | 34.364 | 4.574 | 27.339 | 1.228 |
| 1000 | 3.358 | 3.287 | 34.401 | 4.386 | 27.38 | 1.267 |
| 1100 | 3.249 | 3.172 | 34.489 | 4.015 | 27.461 | 1.340 |
| 1200 | 3.232 | 3.147 | 34.564 | 3.94 | 27.524 | 1.408 |
| 1300 | 3.135 | 3.042 | 34.617 | 4.011 | 27.576 | 1.470 |
| 1400 | 3.13 | 3.029 | 34.683 | 4.203 | 27.629 | 1.528 |
| 1500 | 3.021 | 2.913 | 34.713 | 4.324 | 27.664 | 1.583 |
| 1600 | 3.039 | 2.922 | 34.757 | 4.514 | 27.698 | 1.635 |
| 1700 | 3.06 | 2.934 | 34.792 | 4.683 | 27.725 | 1.685 |
| 1800 | 3.059 | 2.924 | 34.822 | 4.862 | 27.75 | 1.733 |
| 1900 | 3.048 | 2.904 | 34.842 | 4.98 | 27.768 | 1.780 |
| 2000 | 2.968 | 2.816 | 34.848 | 5.06 | 27.781 | 1.826 |

| PR | TE | PT | SA | OX | RN |
|---|---|---|---|---|---|
| 4.2 | 15.907 | 15.906 | 35.444 | 5.787 | 11 |
| 50.6 | 15.645 | 15.637 | 35.428 | 5.769 | 10 |
| 250.5 | 12.802 | 12.768 | 35.150 | 4.985 | 8 |
| 500.8 | 8.375 | 8.322 | 34.601 | 4.746 | 7 |
| 1000.6 | 3.358 | 3.288 | 34.403 | 4.414 | 5 |
| 1250.1 | 3.156 | 3.067 | 34.589 | 4.065 | 4 |
| 1500.5 | 3.015 | 2.907 | 34.711 | 4.345 | 3 |
| 1750.8 | 3.055 | 2.924 | 34.806 | 4.732 | 2 |
| 2002.1 | 2.968 | 2.816 | 34.846 | 4.992 | 1 |


CTD sj970512
— Potential Temperature
0 5 10 15 20
Pressure
0 100 200 300 400 500 600 700 800 900 1000 1100 1200 1300 1400 1500 1600 1700 1800 1900 2000 2100 2200
34.5 35.0 35.5 36.0 36.5
---- Salinity
2 3 4 5 6
····· Oxygen


Potential Temperature
0 5 10 15 20
34.5 35.0 35.5 36.0 36.5
Salinity


Potential Temperature
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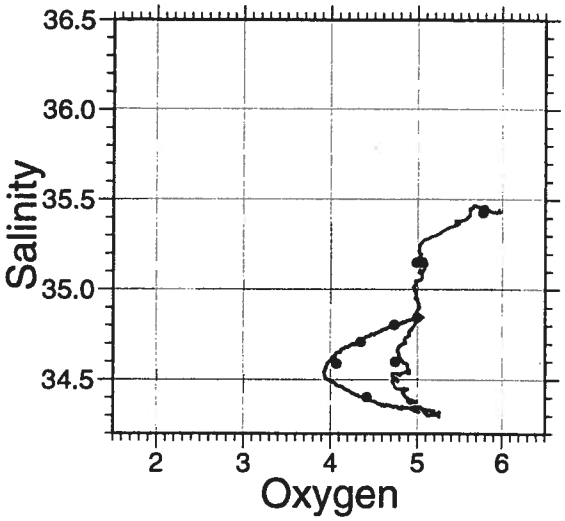
2 3 4 5 6
Oxygen

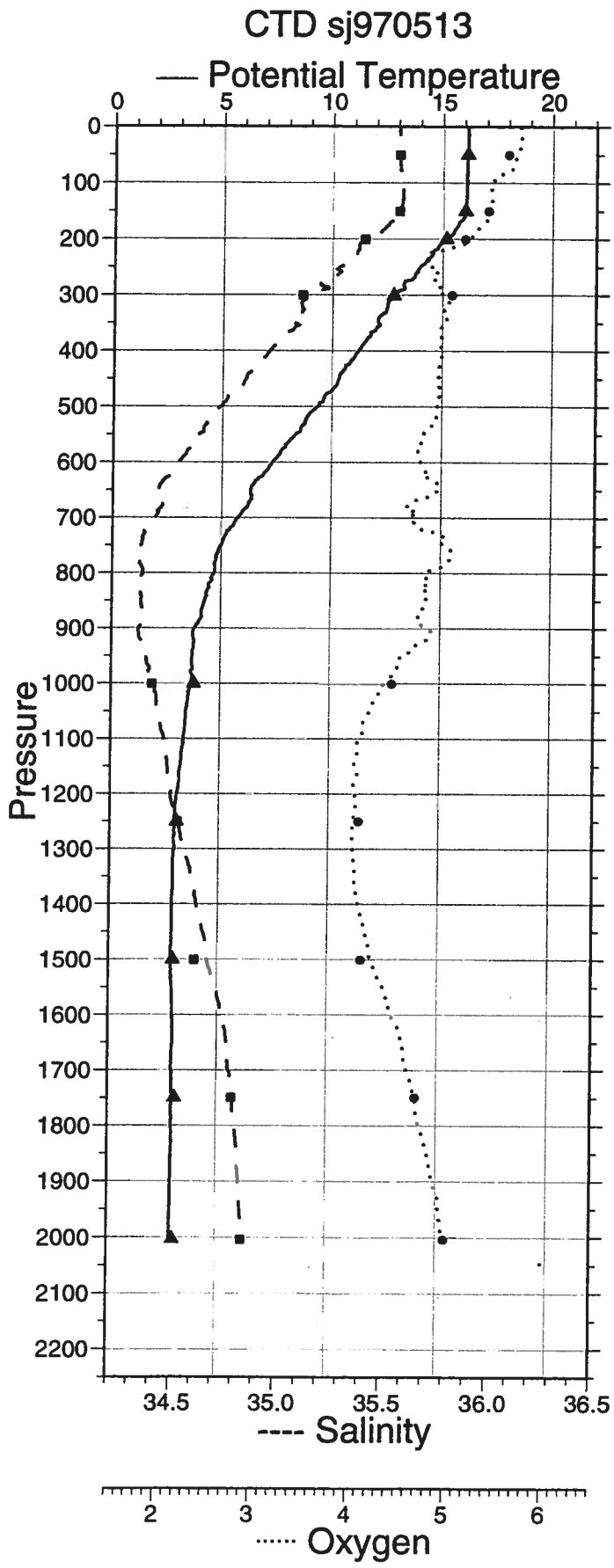

Salinity
34.5 35.0 35.5 36.0 36.5
2 3 4 5 6
Oxygen

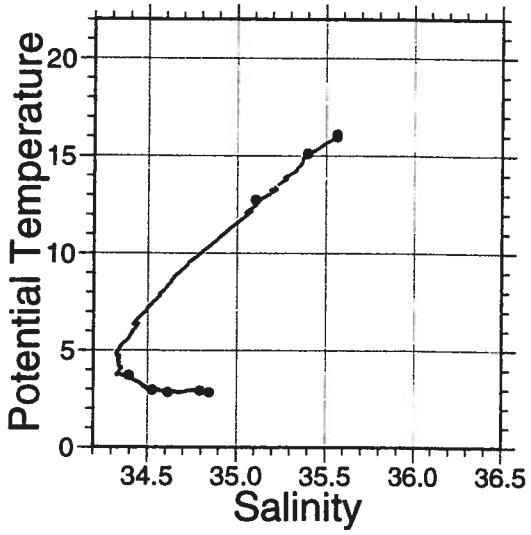
# station 13

**lat. 30 0.00 S** **97/09/09**
**lon. 7 20.22 E** **22:13:56**

| PR | TE | PT | SA | OX | S0 | HZ |
|---|---|---|---|---|---|---|
| 0 | 16.129 | 16.129 | 35.561 | 5.714 | 26.15 | 0.000 |
| 10 | 16.139 | 16.137 | 35.56 | 5.715 | 26.148 | 0.019 |
| 20 | 16.137 | 16.134 | 35.562 | 5.717 | 26.15 | 0.037 |
| 30 | 16.138 | 16.134 | 35.562 | 5.702 | 26.15 | 0.056 |
| 40 | 16.142 | 16.136 | 35.562 | 5.702 | 26.15 | 0.074 |
| 50 | 16.119 | 16.111 | 35.563 | 5.68 | 26.156 | 0.093 |
| 60 | 16.098 | 16.088 | 35.563 | 5.657 | 26.161 | 0.112 |
| 70 | 16.099 | 16.087 | 35.564 | 5.63 | 26.162 | 0.130 |
| 80 | 16.1 | 16.087 | 35.569 | 5.592 | 26.166 | 0.149 |
| 90 | 16.091 | 16.077 | 35.578 | 5.439 | 26.176 | 0.168 |
| 100 | 16.089 | 16.073 | 35.578 | 5.436 | 26.176 | 0.186 |
| 110 | 16.09 | 16.072 | 35.578 | 5.403 | 26.177 | 0.205 |
| 120 | 16.089 | 16.07 | 35.579 | 5.408 | 26.178 | 0.224 |
| 130 | 16.084 | 16.063 | 35.578 | 5.41 | 26.179 | 0.242 |
| 140 | 16.063 | 16.041 | 35.573 | 5.386 | 26.18 | 0.261 |
| 150 | 16.047 | 16.023 | 35.57 | 5.373 | 26.182 | 0.280 |
| 160 | 16.008 | 15.983 | 35.562 | 5.348 | 26.185 | 0.299 |
| 170 | 15.779 | 15.753 | 35.519 | 5.343 | 26.204 | 0.317 |
| 180 | 15.645 | 15.617 | 35.493 | 5.287 | 26.215 | 0.336 |
| 190 | 15.501 | 15.472 | 35.47 | 5.222 | 26.23 | 0.354 |
| 200 | 15.28 | 15.249 | 35.434 | 5.16 | 26.252 | 0.373 |
| 210 | 14.909 | 14.877 | 35.37 | 5.123 | 26.285 | 0.391 |
| 220 | 14.645 | 14.612 | 35.368 | 4.916 | 26.341 | 0.408 |
| 230 | 14.531 | 14.497 | 35.354 | 4.743 | 26.355 | 0.426 |
| 240 | 14.291 | 14.256 | 35.334 | 4.754 | 26.392 | 0.443 |
| 250 | 13.997 | 13.961 | 35.279 | 4.798 | 26.412 | 0.460 |
| 260 | 13.836 | 13.798 | 35.28 | 4.847 | 26.447 | 0.477 |
| 270 | 13.7 | 13.661 | 35.253 | 4.811 | 26.454 | 0.493 |
| 280 | 13.293 | 13.253 | 35.189 | 4.891 | 26.489 | 0.509 |
| 290 | 13.257 | 13.216 | 35.214 | 4.855 | 26.516 | 0.525 |
| 300 | 12.876 | 12.835 | 35.144 | 4.923 | 26.538 | 0.541 |
| 325 | 12.516 | 12.472 | 35.106 | 4.94 | 26.581 | 0.580 |
| 350 | 12.132 | 12.085 | 35.059 | 4.958 | 26.619 | 0.618 |
| 375 | 11.71 | 11.662 | 35.014 | 4.903 | 26.665 | 0.655 |
| 400 | 11.254 | 11.204 | 34.95 | 4.895 | 26.7 | 0.691 |
| 425 | 10.773 | 10.721 | 34.891 | 4.9 | 26.741 | 0.727 |
| 450 | 10.37 | 10.316 | 34.836 | 4.888 | 26.77 | 0.762 |
| 475 | 9.88 | 9.825 | 34.775 | 4.861 | 26.806 | 0.795 |
| 500 | 9.397 | 9.34 | 34.714 | 4.861 | 26.839 | 0.829 |
| 550 | 8.409 | 8.351 | 34.611 | 4.722 | 26.916 | 0.892 |
| 600 | 7.377 | 7.318 | 34.513 | 4.697 | 26.991 | 0.952 |
| 650 | 6.418 | 6.359 | 34.419 | 4.873 | 27.048 | 1.009 |
| 700 | 5.822 | 5.761 | 34.402 | 4.609 | 27.11 | 1.062 |
| 750 | 5.057 | 4.996 | 34.337 | 4.934 | 27.15 | 1.113 |
| 800 | 4.756 | 4.692 | 34.346 | 4.755 | 27.192 | 1.162 |
| 850 | 4.334 | 4.268 | 34.339 | 4.754 | 27.232 | 1.208 |
| 900 | 3.857 | 3.791 | 34.328 | 4.792 | 27.273 | 1.253 |
| 950 | 3.778 | 3.708 | 34.366 | 4.551 | 27.312 | 1.296 |
| 1000 | 3.714 | 3.641 | 34.403 | 4.327 | 27.348 | 1.337 |
| 1100 | 3.419 | 3.34 | 34.454 | 4.081 | 27.418 | 1.414 |
| 1200 | 3.132 | 3.047 | 34.489 | 4.039 | 27.473 | 1.486 |
| 1300 | 3.054 | 2.962 | 34.563 | 4.025 | 27.54 | 1.552 |
| 1400 | 2.986 | 2.886 | 34.619 | 4.089 | 27.591 | 1.613 |
| 1500 | 2.954 | 2.846 | 34.674 | 4.215 | 27.639 | 1.670 |
| 1600 | 3.06 | 2.943 | 34.742 | 4.44 | 27.684 | 1.724 |
| 1700 | 3.04 | 2.914 | 34.781 | 4.598 | 27.718 | 1.775 |
| 1800 | 3.067 | 2.932 | 34.812 | 4.734 | 27.741 | 1.824 |
| 1900 | 3.048 | 2.904 | 34.834 | 4.881 | 27.761 | 1.872 |
| 2000 | 3.013 | 2.861 | 34.847 | 4.976 | 27.776 | 1.919 |
| 2005 | 3.007 | 2.854 | 34.846 | 4.979 | 27.776 | 1.921 |

| PR | TE | PT | SA | OX | RN |
|---|---|---|---|---|---|
| 50.0 | 16.113 | 16.105 | 35.562 | 5.585 | 13 |
| 150.4 | 16.014 | 15.990 | 35.562 | 5.377 | 11 |
| 200.4 | 15.165 | 15.134 | 35.398 | 5.142 | 10 |
| 300.5 | 12.797 | 12.755 | 35.105 | 5.008 | 8 |
| 1000.1 | 3.795 | 3.721 | 34.395 | 4.419 | 5 |
| 1250.1 | 3.059 | 2.971 | 34.524 | 4.088 | 4 |
| 1500.0 | 2.952 | 2.845 | 34.613 | 4.121 | 3 |
| 1749.2 | 3.071 | 2.940 | 34.795 | 4.690 | 2 |
| 2003.7 | 3.008 | 2.855 | 34.846 | 4.996 | 1 |


CTD sj970513
— Potential Temperature
0 5 10 15 20
Pressure
0 100 200 300 400 500 600 700 800 900 1000 1100 1200 1300 1400 1500 1600 1700 1800 1900 2000 2100 2200
34.5 35.0 35.5 36.0 36.5
---- Salinity
2 3 4 5 6
····· Oxygen


Potential Temperature
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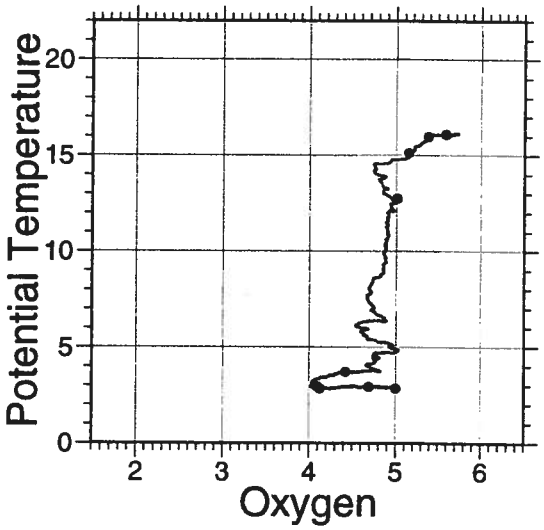
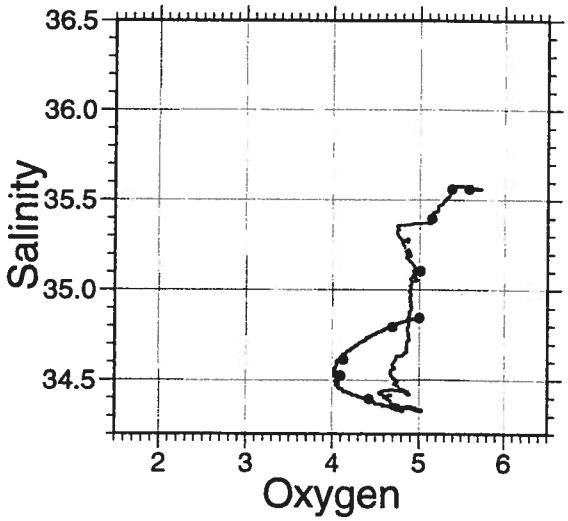
34.5 35.0 35.5 36.0 36.5
Salinity


Potential Temperature
0 5 10 15 20
2 3 4 5 6
Oxygen

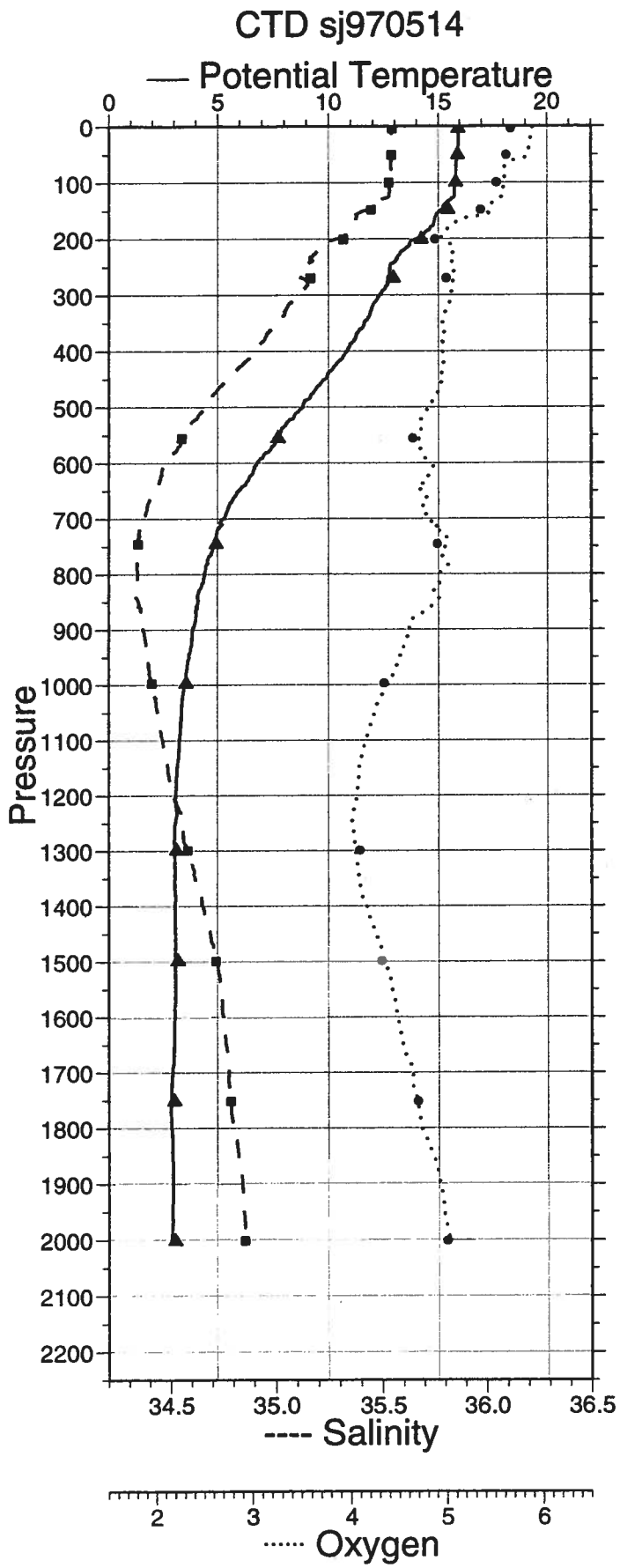

Salinity
34.5 35.0 35.5 36.0 36.5
2 3 4 5 6
Oxygen

# station 14

**lat. 30 0.00 S** **97/09/10**
**lon. 6 9.83 E** **04:36:05**

| PR | TE | PT | SA | OX | S0 | HZ |
|---|---|---|---|---|---|---|
| 0 | 15.936 | 15.936 | 35.545 | 5.892 | 26.183 | 0.000 |
| 10 | 15.941 | 15.94 | 35.543 | 5.894 | 26.18 | 0.018 |
| 20 | 15.945 | 15.942 | 35.544 | 5.873 | 26.18 | 0.037 |
| 30 | 15.947 | 15.942 | 35.544 | 5.878 | 26.18 | 0.055 |
| 40 | 15.945 | 15.938 | 35.544 | 5.852 | 26.181 | 0.073 |
| 50 | 15.944 | 15.937 | 35.544 | 5.844 | 26.182 | 0.092 |
| 60 | 15.875 | 15.865 | 35.542 | 5.705 | 26.196 | 0.110 |
| 70 | 15.842 | 15.831 | 35.541 | 5.61 | 26.203 | 0.128 |
| 80 | 15.844 | 15.831 | 35.542 | 5.609 | 26.204 | 0.147 |
| 90 | 15.833 | 15.819 | 35.54 | 5.6 | 26.205 | 0.165 |
| 100 | 15.764 | 15.748 | 35.523 | 5.586 | 26.208 | 0.183 |
| 110 | 15.784 | 15.767 | 35.533 | 5.588 | 26.212 | 0.202 |
| 120 | 15.77 | 15.751 | 35.533 | 5.558 | 26.216 | 0.220 |
| 130 | 15.6 | 15.58 | 35.496 | 5.528 | 26.226 | 0.238 |
| 140 | 15.295 | 15.273 | 35.442 | 5.454 | 26.253 | 0.256 |
| 150 | 15.133 | 15.11 | 35.414 | 5.441 | 26.268 | 0.274 |
| 160 | 14.896 | 14.872 | 35.378 | 5.323 | 26.292 | 0.292 |
| 170 | 14.833 | 14.807 | 35.374 | 5.108 | 26.303 | 0.310 |
| 180 | 14.65 | 14.623 | 35.357 | 5.031 | 26.33 | 0.327 |
| 190 | 14.411 | 14.383 | 35.335 | 4.953 | 26.365 | 0.345 |
| 200 | 14.012 | 13.983 | 35.281 | 4.965 | 26.409 | 0.361 |
| 210 | 13.71 | 13.679 | 35.239 | 5.03 | 26.44 | 0.378 |
| 220 | 13.447 | 13.416 | 35.21 | 5.017 | 26.472 | 0.394 |
| 230 | 13.198 | 13.166 | 35.171 | 5.065 | 26.493 | 0.410 |
| 240 | 13.075 | 13.041 | 35.169 | 5.051 | 26.516 | 0.426 |
| 250 | 12.839 | 12.805 | 35.13 | 5.093 | 26.533 | 0.442 |
| 260 | 12.796 | 12.76 | 35.125 | 5.059 | 26.538 | 0.458 |
| 270 | 12.728 | 12.691 | 35.123 | 5.079 | 26.551 | 0.473 |
| 280 | 12.727 | 12.689 | 35.148 | 5.07 | 26.57 | 0.489 |
| 290 | 12.55 | 12.511 | 35.129 | 5.06 | 26.591 | 0.504 |
| 300 | 12.341 | 12.301 | 35.099 | 5.031 | 26.609 | 0.519 |
| 325 | 11.979 | 11.937 | 35.044 | 4.994 | 26.636 | 0.556 |
| 350 | 11.653 | 11.608 | 35.001 | 4.955 | 26.665 | 0.593 |
| 375 | 11.272 | 11.224 | 34.949 | 4.972 | 26.695 | 0.629 |
| 400 | 10.878 | 10.828 | 34.9 | 4.955 | 26.729 | 0.665 |
| 425 | 10.383 | 10.332 | 34.838 | 4.965 | 26.769 | 0.699 |
| 450 | 9.88 | 9.827 | 34.772 | 4.934 | 26.804 | 0.733 |
| 475 | 9.332 | 9.278 | 34.708 | 4.899 | 26.845 | 0.766 |
| 500 | 8.899 | 8.844 | 34.664 | 4.775 | 26.88 | 0.798 |
| 550 | 7.839 | 7.783 | 34.565 | 4.692 | 26.965 | 0.859 |
| 600 | 6.854 | 6.797 | 34.47 | 4.818 | 27.029 | 0.917 |
| 650 | 6.013 | 5.956 | 34.416 | 4.743 | 27.097 | 0.971 |
| 700 | 5.331 | 5.272 | 34.366 | 4.775 | 27.141 | 1.022 |
| 750 | 4.883 | 4.823 | 34.34 | 4.975 | 27.172 | 1.071 |
| 800 | 4.479 | 4.416 | 34.337 | 4.929 | 27.215 | 1.119 |
| 850 | 4.181 | 4.117 | 34.343 | 4.866 | 27.251 | 1.164 |
| 900 | 3.92 | 3.853 | 34.366 | 4.612 | 27.297 | 1.208 |
| 950 | 3.758 | 3.689 | 34.387 | 4.509 | 27.33 | 1.250 |
| 1000 | 3.57 | 3.498 | 34.407 | 4.376 | 27.365 | 1.290 |
| 1100 | 3.338 | 3.26 | 34.459 | 4.16 | 27.429 | 1.366 |
| 1200 | 3.18 | 3.095 | 34.513 | 4.057 | 27.488 | 1.436 |
| 1300 | 3.129 | 3.036 | 34.58 | 4.042 | 27.547 | 1.501 |
| 1400 | 3.164 | 3.062 | 34.653 | 4.162 | 27.602 | 1.562 |
| 1500 | 3.201 | 3.09 | 34.718 | 4.348 | 27.652 | 1.619 |
| 1600 | 3.173 | 3.054 | 34.752 | 4.477 | 27.682 | 1.673 |
| 1700 | 3.079 | 2.952 | 34.778 | 4.64 | 27.712 | 1.724 |
| 1800 | 3.031 | 2.896 | 34.798 | 4.737 | 27.733 | 1.774 |
| 1900 | 3.115 | 2.97 | 34.841 | 4.925 | 27.761 | 1.822 |
| 2000 | 3.07 | 2.917 | 34.857 | 5.025 | 27.779 | 1.869 |

| PR | TE | PT | SA | OX | RN |
|---|---|---|---|---|---|
| 3.6 | 15.932 | 15.931 | 35.546 | 5.666 | 13 |
| 50.5 | 15.902 | 15.894 | 35.543 | 5.619 | 12 |
| 99.5 | 15.811 | 15.796 | 35.530 | 5.518 | 11 |
| 148.1 | 15.459 | 15.436 | 35.446 | 5.352 | 10 |
| 200.7 | 14.210 | 14.181 | 35.316 | 4.875 | 9 |
| 269.5 | 12.940 | 12.903 | 35.161 | 4.994 | 8 |
| 555.3 | 7.731 | 7.675 | 34.551 | 4.640 | 7 |
| 745.2 | 4.942 | 4.882 | 34.341 | 4.900 | 6 |
| 996.8 | 3.562 | 3.490 | 34.407 | 4.343 | 5 |
| 1299.0 | 3.129 | 3.036 | 34.581 | 4.090 | 4 |
| 1498.8 | 3.200 | 3.089 | 34.717 | 4.318 | 3 |
| 1751.3 | 3.025 | 2.894 | 34.788 | 4.692 | 2 |
| 2001.3 | 3.071 | 2.918 | 34.855 | 5.001 | 1 |


CTD sj970514
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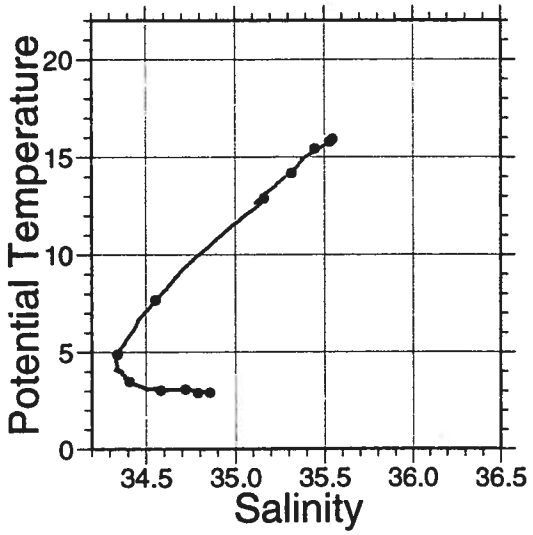
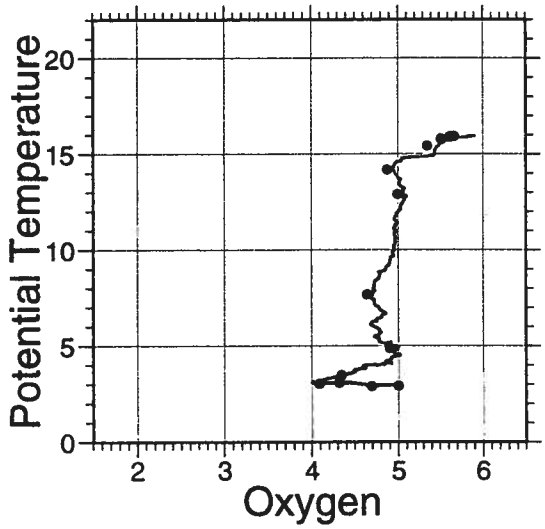
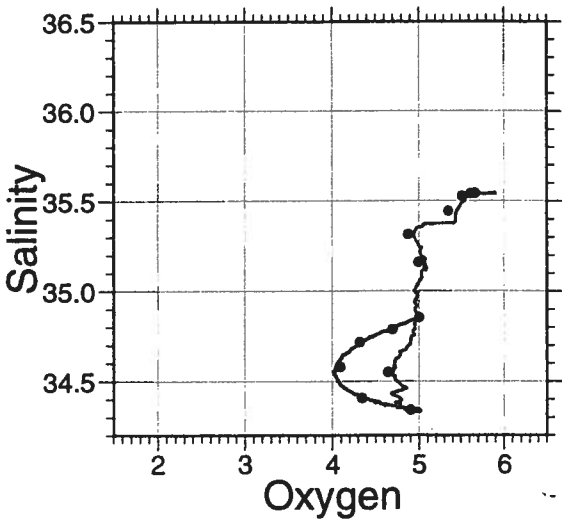
0 5 10 15 20
Pressure
0 100 200 300 400 500 600 700 800 900 1000 1100 1200 1300 1400 1500 1600 1700 1800 1900 2000 2100 2200
34.5 35.0 35.5 36.0 36.5
---- Salinity
2 3 4 5 6
····· Oxygen


Potential Temperature
0 5 10 15 20
34.5 35.0 35.5 36.0 36.5
Salinity


Potential Temperature
0 5 10 15 20
2 3 4 5 6
Oxygen

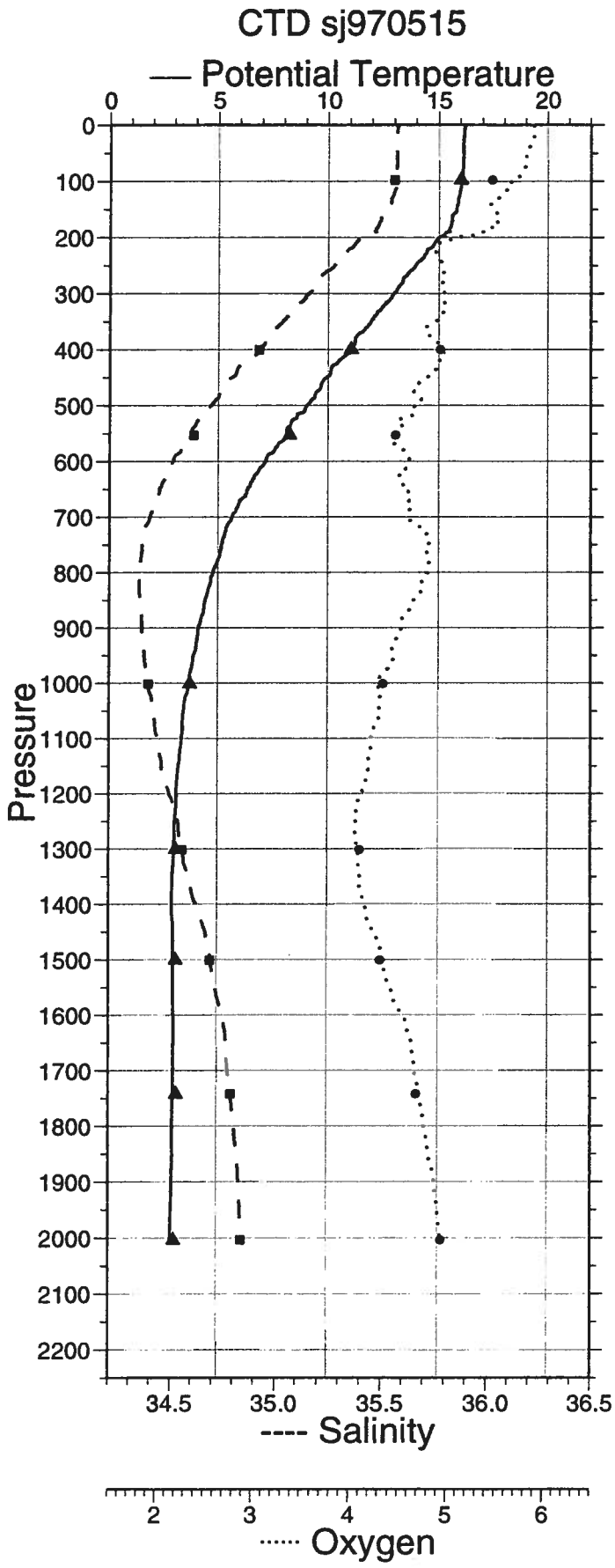

Salinity
34.5 35.0 35.5 36.0 36.5
2 3 4 5 6
Oxygen

# station 15

**lat. 30 0.12 S** **97/09/10**
**lon. 4 59.88 E** **11:15:52**

| PR | TE | PT | SA | OX | S0 | HZ |
|---|---|---|---|---|---|---|
| 0 | 16.18 | 16.18 | 35.571 | 5.901 | 26.146 | 0.000 |
| 10 | 16.163 | 16.162 | 35.57 | 5.895 | 26.15 | 0.019 |
| 20 | 16.138 | 16.135 | 35.571 | 5.902 | 26.157 | 0.037 |
| 30 | 16.128 | 16.124 | 35.57 | 5.878 | 26.159 | 0.056 |
| 40 | 16.128 | 16.122 | 35.569 | 5.856 | 26.158 | 0.074 |
| 50 | 16.125 | 16.117 | 35.569 | 5.843 | 26.159 | 0.093 |
| 60 | 16.122 | 16.112 | 35.569 | 5.816 | 26.16 | 0.112 |
| 70 | 16.112 | 16.101 | 35.568 | 5.812 | 26.162 | 0.130 |
| 80 | 16.107 | 16.094 | 35.568 | 5.787 | 26.164 | 0.149 |
| 90 | 16.1 | 16.086 | 35.566 | 5.748 | 26.164 | 0.168 |
| 100 | 16.067 | 16.051 | 35.569 | 5.68 | 26.175 | 0.186 |
| 110 | 16.028 | 16.01 | 35.566 | 5.627 | 26.182 | 0.205 |
| 120 | 15.976 | 15.957 | 35.556 | 5.596 | 26.186 | 0.224 |
| 130 | 15.927 | 15.906 | 35.545 | 5.525 | 26.189 | 0.242 |
| 140 | 15.887 | 15.865 | 35.541 | 5.444 | 26.196 | 0.261 |
| 150 | 15.841 | 15.817 | 35.536 | 5.483 | 26.203 | 0.279 |
| 160 | 15.666 | 15.641 | 35.502 | 5.503 | 26.217 | 0.298 |
| 170 | 15.637 | 15.611 | 35.494 | 5.514 | 26.217 | 0.316 |
| 180 | 15.578 | 15.55 | 35.482 | 5.506 | 26.222 | 0.335 |
| 190 | 15.506 | 15.477 | 35.469 | 5.373 | 26.228 | 0.353 |
| 200 | 15.018 | 14.988 | 35.401 | 5.076 | 26.285 | 0.371 |
| 210 | 14.842 | 14.81 | 35.375 | 4.913 | 26.304 | 0.389 |
| 220 | 14.591 | 14.559 | 35.348 | 4.915 | 26.338 | 0.407 |
| 230 | 14.418 | 14.384 | 35.325 | 4.89 | 26.357 | 0.424 |
| 240 | 14.258 | 14.223 | 35.308 | 4.915 | 26.379 | 0.441 |
| 250 | 13.989 | 13.953 | 35.274 | 4.942 | 26.41 | 0.458 |
| 260 | 13.729 | 13.691 | 35.237 | 4.955 | 26.436 | 0.475 |
| 270 | 13.511 | 13.473 | 35.204 | 4.969 | 26.455 | 0.492 |
| 280 | 13.401 | 13.362 | 35.19 | 4.949 | 26.467 | 0.508 |
| 290 | 13.185 | 13.145 | 35.171 | 4.956 | 26.497 | 0.524 |
| 300 | 13.006 | 12.964 | 35.153 | 4.966 | 26.519 | 0.540 |
| 325 | 12.489 | 12.446 | 35.097 | 4.957 | 26.579 | 0.579 |
| 350 | 11.99 | 11.944 | 35.028 | 4.874 | 26.622 | 0.617 |
| 375 | 11.359 | 11.312 | 34.958 | 4.809 | 26.686 | 0.654 |
| 400 | 10.996 | 10.947 | 34.917 | 4.946 | 26.721 | 0.690 |
| 425 | 10.46 | 10.409 | 34.849 | 4.883 | 26.764 | 0.725 |
| 450 | 9.973 | 9.92 | 34.788 | 4.782 | 26.8 | 0.759 |
| 475 | 9.559 | 9.505 | 34.737 | 4.658 | 26.83 | 0.792 |
| 500 | 9.095 | 9.04 | 34.688 | 4.665 | 26.868 | 0.824 |
| 550 | 8.178 | 8.121 | 34.598 | 4.476 | 26.94 | 0.886 |
| 600 | 7.239 | 7.181 | 34.508 | 4.6 | 27.006 | 0.945 |
| 650 | 6.425 | 6.366 | 34.444 | 4.546 | 27.066 | 1.001 |
| 700 | 5.708 | 5.648 | 34.395 | 4.614 | 27.119 | 1.054 |
| 750 | 5.23 | 5.168 | 34.36 | 4.804 | 27.149 | 1.104 |
| 800 | 4.852 | 4.788 | 34.348 | 4.792 | 27.183 | 1.154 |
| 850 | 4.51 | 4.444 | 34.35 | 4.66 | 27.222 | 1.201 |
| 900 | 4.196 | 4.128 | 34.358 | 4.527 | 27.262 | 1.246 |
| 950 | 3.98 | 3.909 | 34.37 | 4.439 | 27.294 | 1.290 |
| 1000 | 3.799 | 3.725 | 34.393 | 4.288 | 27.331 | 1.332 |
| 1100 | 3.453 | 3.374 | 34.434 | 4.224 | 27.398 | 1.411 |
| 1200 | 3.218 | 3.132 | 34.492 | 4.125 | 27.467 | 1.484 |
| 1300 | 3.131 | 3.038 | 34.559 | 4.081 | 27.53 | 1.551 |
| 1400 | 3.032 | 2.932 | 34.623 | 4.152 | 27.59 | 1.613 |
| 1500 | 3.116 | 3.006 | 34.69 | 4.348 | 27.637 | 1.671 |
| 1600 | 3.146 | 3.027 | 34.751 | 4.539 | 27.684 | 1.725 |
| 1700 | 3.14 | 3.012 | 34.778 | 4.674 | 27.707 | 1.777 |
| 1800 | 3.101 | 2.966 | 34.806 | 4.775 | 27.734 | 1.827 |
| 1900 | 3.09 | 2.945 | 34.828 | 4.872 | 27.753 | 1.876 |
| 2000 | 3.044 | 2.891 | 34.841 | 4.936 | 27.768 | 1.924 |
| 2005 | 3.045 | 2.892 | 34.841 | 4.932 | 27.768 | 1.926 |

| PR | TE | PT | SA | OX | RN |
|---|---|---|---|---|---|
| 97.7 | 16.002 | 15.987 | 35.558 | 5.462 | 11 |
| 399.6 | 11.036 | 10.986 | 34.919 | 4.927 | 8 |
| 552.6 | 8.272 | 8.214 | 34.607 | 4.468 | 7 |
| 1000.8 | 3.744 | 3.671 | 34.391 | 4.345 | 5 |
| 1300.8 | 3.123 | 3.030 | 34.558 | 4.105 | 4 |
| 1500.6 | 3.117 | 3.007 | 34.690 | 4.318 | 3 |
| 1741.9 | 3.140 | 3.009 | 34.790 | 4.687 | 2 |
| 2004.0 | 3.044 | 2.891 | 34.840 | 4.943 | 1 |


CTD sj970515
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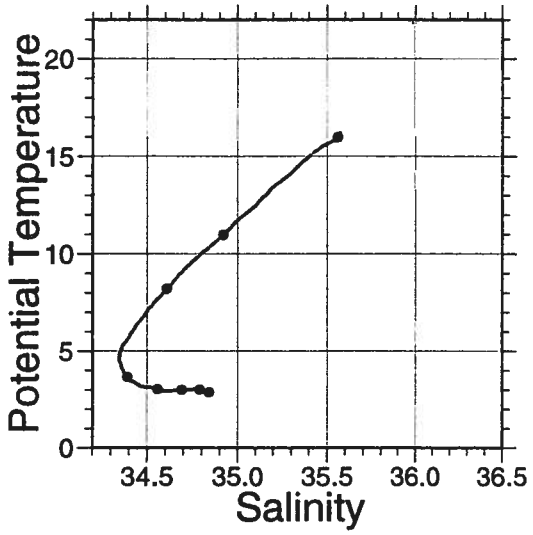
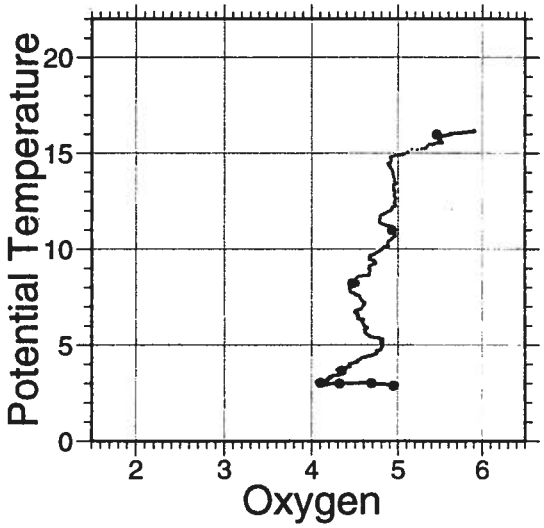
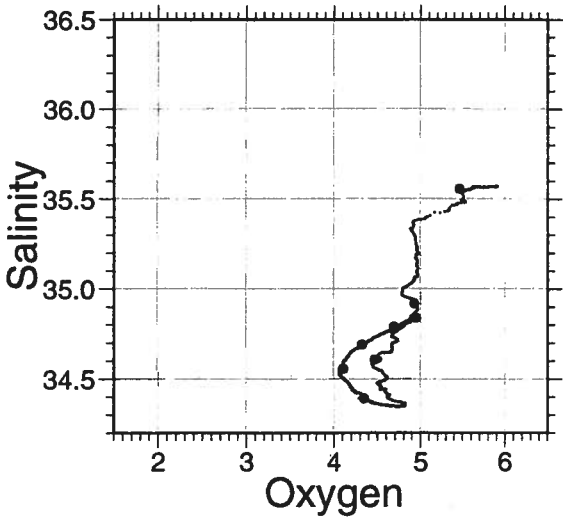
Pressure
0 100 200 300 400 500 600 700 800 900 1000 1100 1200 1300 1400 1500 1600 1700 1800 1900 2000 2100 2200
34.5 35.0 35.5 36.0 36.5
---- Salinity
2 3 4 5 6
····· Oxygen


Potential Temperature
0 5 10 15 20
34.5 35.0 35.5 36.0 36.5
Salinity


Potential Temperature
0 5 10 15 20
2 3 4 5 6
Oxygen

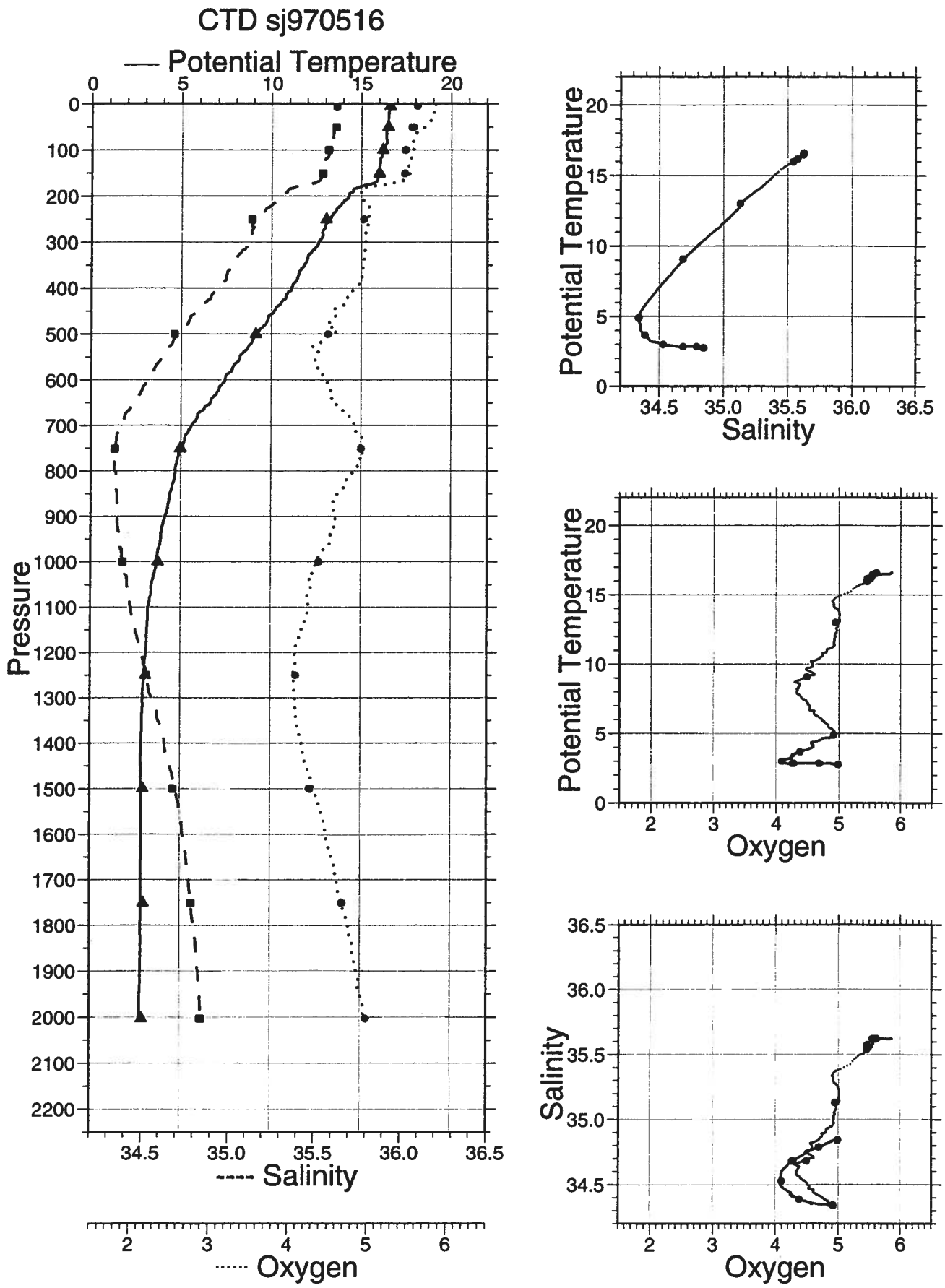

Salinity
34.5 35.0 35.5 36.0 36.5
2 3 4 5 6
Oxygen

# station 16

**lat. 30 0.00 S** **97/09/10**
**lon. 3 50.10 E** **17:48:53**

| PR | TE | PT | SA | OX | S0 | HZ |
|---|---|---|---|---|---|---|
| 0 | 16.6 | 16.6 | 35.624 | 5.847 | 26.089 | 0.000 |
| 10 | 16.595 | 16.594 | 35.623 | 5.861 | 26.09 | 0.019 |
| 20 | 16.526 | 16.522 | 35.621 | 5.824 | 26.105 | 0.038 |
| 30 | 16.515 | 16.51 | 35.622 | 5.782 | 26.109 | 0.057 |
| 40 | 16.509 | 16.503 | 35.623 | 5.754 | 26.111 | 0.076 |
| 50 | 16.502 | 16.494 | 35.623 | 5.702 | 26.113 | 0.095 |
| 60 | 16.416 | 16.407 | 35.605 | 5.62 | 26.12 | 0.114 |
| 70 | 16.403 | 16.392 | 35.603 | 5.587 | 26.122 | 0.133 |
| 80 | 16.428 | 16.415 | 35.611 | 5.568 | 26.122 | 0.153 |
| 90 | 16.344 | 16.33 | 35.597 | 5.547 | 26.132 | 0.172 |
| 100 | 16.222 | 16.206 | 35.584 | 5.572 | 26.15 | 0.191 |
| 110 | 16.172 | 16.155 | 35.578 | 5.557 | 26.158 | 0.209 |
| 120 | 16.082 | 16.063 | 35.557 | 5.544 | 26.163 | 0.228 |
| 130 | 16.064 | 16.043 | 35.555 | 5.521 | 26.166 | 0.247 |
| 140 | 16.036 | 16.014 | 35.549 | 5.502 | 26.168 | 0.266 |
| 150 | 16.005 | 15.981 | 35.542 | 5.523 | 26.17 | 0.285 |
| 160 | 15.97 | 15.944 | 35.534 | 5.479 | 26.172 | 0.304 |
| 170 | 15.812 | 15.786 | 35.505 | 5.381 | 26.186 | 0.323 |
| 180 | 14.917 | 14.89 | 35.381 | 4.991 | 26.291 | 0.341 |
| 190 | 14.558 | 14.53 | 35.336 | 4.894 | 26.334 | 0.358 |
| 200 | 14.344 | 14.315 | 35.312 | 4.912 | 26.362 | 0.376 |
| 210 | 14.079 | 14.049 | 35.276 | 4.943 | 26.391 | 0.393 |
| 220 | 13.891 | 13.859 | 35.245 | 4.994 | 26.407 | 0.410 |
| 230 | 13.638 | 13.605 | 35.208 | 5.01 | 26.431 | 0.426 |
| 240 | 13.46 | 13.426 | 35.183 | 5.007 | 26.449 | 0.443 |
| 250 | 13.232 | 13.198 | 35.154 | 5.008 | 26.473 | 0.459 |
| 260 | 13.075 | 13.039 | 35.134 | 5.005 | 26.49 | 0.475 |
| 270 | 13.006 | 12.969 | 35.14 | 4.987 | 26.508 | 0.491 |
| 280 | 12.875 | 12.836 | 35.13 | 4.967 | 26.527 | 0.507 |
| 290 | 12.845 | 12.806 | 35.134 | 4.979 | 26.536 | 0.523 |
| 300 | 12.677 | 12.636 | 35.114 | 4.964 | 26.554 | 0.538 |
| 325 | 12.176 | 12.133 | 35.057 | 4.935 | 26.608 | 0.577 |
| 350 | 11.847 | 11.802 | 35.019 | 4.922 | 26.642 | 0.614 |
| 375 | 11.518 | 11.47 | 34.98 | 4.916 | 26.674 | 0.651 |
| 400 | 11.173 | 11.123 | 34.934 | 4.827 | 26.702 | 0.687 |
| 425 | 10.743 | 10.691 | 34.88 | 4.739 | 26.738 | 0.722 |
| 450 | 10.206 | 10.153 | 34.813 | 4.554 | 26.78 | 0.757 |
| 475 | 9.787 | 9.732 | 34.763 | 4.506 | 26.813 | 0.790 |
| 500 | 9.206 | 9.15 | 34.698 | 4.51 | 26.858 | 0.823 |
| 550 | 8.284 | 8.227 | 34.607 | 4.332 | 26.931 | 0.886 |
| 600 | 7.477 | 7.417 | 34.529 | 4.465 | 26.989 | 0.945 |
| 650 | 6.671 | 6.61 | 34.458 | 4.603 | 27.045 | 1.002 |
| 700 | 5.656 | 5.596 | 34.376 | 4.825 | 27.11 | 1.056 |
| 750 | 5.1 | 5.039 | 34.343 | 4.911 | 27.15 | 1.107 |
| 800 | 4.769 | 4.705 | 34.341 | 4.838 | 27.186 | 1.156 |
| 850 | 4.471 | 4.405 | 34.355 | 4.616 | 27.23 | 1.203 |
| 900 | 4.206 | 4.138 | 34.355 | 4.588 | 27.259 | 1.248 |
| 950 | 3.982 | 3.91 | 34.363 | 4.514 | 27.289 | 1.292 |
| 1000 | 3.76 | 3.686 | 34.388 | 4.358 | 27.331 | 1.334 |
| 1100 | 3.298 | 3.22 | 34.436 | 4.256 | 27.415 | 1.412 |
| 1200 | 3.192 | 3.107 | 34.5 | 4.084 | 27.476 | 1.484 |
| 1300 | 3.018 | 2.927 | 34.559 | 4.083 | 27.54 | 1.550 |
| 1400 | 2.955 | 2.856 | 34.633 | 4.165 | 27.605 | 1.610 |
| 1500 | 2.961 | 2.853 | 34.695 | 4.324 | 27.655 | 1.666 |
| 1600 | 2.976 | 2.86 | 34.738 | 4.468 | 27.689 | 1.718 |
| 1700 | 2.977 | 2.852 | 34.774 | 4.615 | 27.718 | 1.769 |
| 1800 | 2.975 | 2.842 | 34.8 | 4.762 | 27.74 | 1.817 |
| 1900 | 2.974 | 2.831 | 34.829 | 4.866 | 27.764 | 1.865 |
| 2000 | 2.916 | 2.765 | 34.843 | 4.962 | 27.781 | 1.911 |
| 2005 | 2.907 | 2.756 | 34.843 | 4.945 | 27.782 | 1.913 |

| PR | TE | PT | SA | OX | RN |
|---|---|---|---|---|---|
| 4.5 | 16.598 | 16.597 | 35.624 | 5.616 | 23 |
| 50.4 | 16.504 | 16.496 | 35.621 | 5.567 | 22 |
| 50.6 | 16.494 | 16.486 | 35.621 | 5.547 | 21 |
| 99.8 | 16.203 | 16.187 | 35.577 | 5.473 | 19 |
| 100.0 | 16.203 | 16.187 | 35.576 | 5.464 | 20 |
| 150.4 | 16.005 | 15.981 | 35.542 | 5.460 | 18 |
| 151.2 | 15.999 | 15.975 | 35.543 | 5.457 | 17 |
| 249.9 | 13.051 | 13.016 | 35.131 | 4.945 | 15 |
| 250.3 | 13.050 | 13.016 | 35.131 | 4.940 | 16 |
| 500.0 | 9.130 | 9.075 | 34.684 | 4.490 | 13 |
| 750.3 | 4.971 | 4.910 | 34.342 | 4.914 | 12 |
| 751.4 | 4.967 | 4.907 | 34.339 | 4.914 | 11 |
| 1000.0 | 3.757 | 3.684 | 34.387 | 4.379 | 9 |
| 1250.1 | 3.095 | 3.007 | 34.529 | 4.092 | 8 |
| 1499.3 | 2.958 | 2.850 | 34.683 | 4.262 | 6 |
| 1500.2 | 2.957 | 2.850 | 34.684 | 4.278 | 5 |
| 1750.6 | 2.983 | 2.854 | 34.790 | 4.676 | 3 |
| 1750.7 | 2.984 | 2.854 | 34.789 | 4.687 | 4 |
| 2002.8 | 2.914 | 2.763 | 34.841 | 4.983 | 1 |
| 2003.4 | 2.910 | 2.759 | 34.846 | 4.985 | 2 |

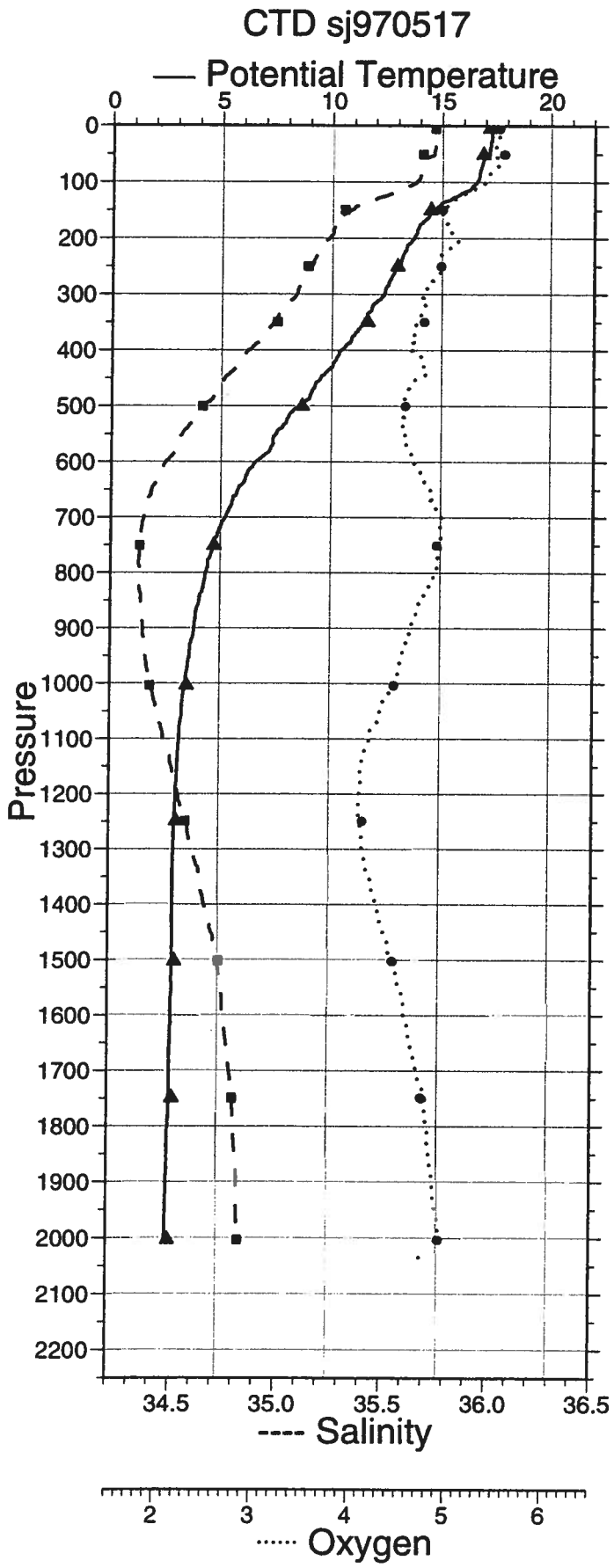

CTD sj970516
— Potential Temperature
Pressure
---- Salinity
..... Oxygen
Potential Temperature
Salinity
Potential Temperature
Oxygen
Salinity
Oxygen

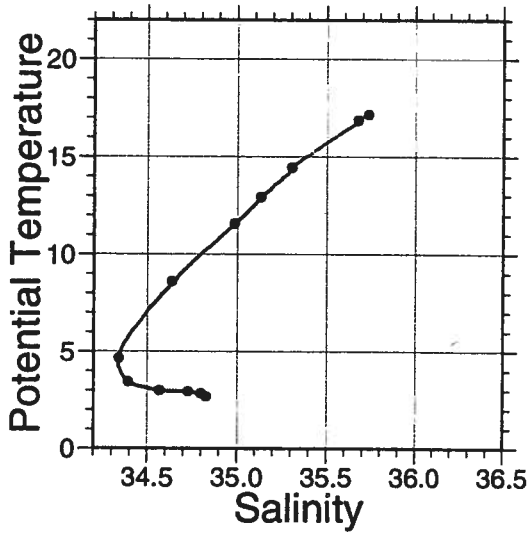
# station 17

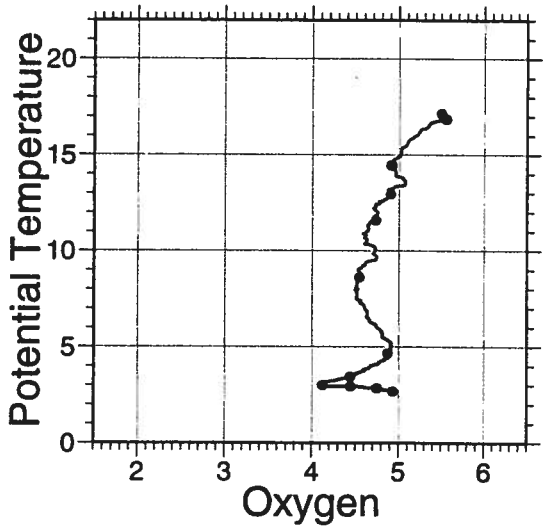
**lat. 30 0.00 S** **97/09/11**
**lon. 1 59.93 E** **03:58:10**

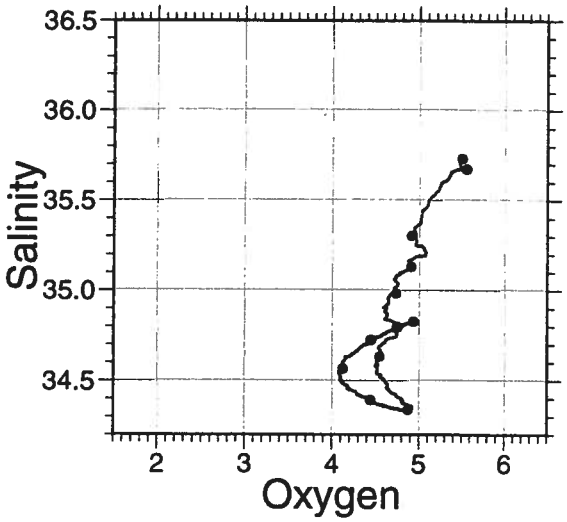
| PR | TE | PT | SA | OX | S0 | HZ |
|---|---|---|---|---|---|---|
| 0 | 17.231 | 17.231 | 35.744 | 5.479 | 26.031 | 0.000 |
| 10 | 17.273 | 17.271 | 35.75 | 5.467 | 26.026 | 0.020 |
| 20 | 17.278 | 17.275 | 35.752 | 5.502 | 26.027 | 0.039 |
| 30 | 17.236 | 17.231 | 35.743 | 5.497 | 26.03 | 0.059 |
| 40 | 17.198 | 17.191 | 35.733 | 5.473 | 26.032 | 0.079 |
| 50 | 17.176 | 17.167 | 35.729 | 5.473 | 26.035 | 0.099 |
| 60 | 16.917 | 16.907 | 35.681 | 5.506 | 26.06 | 0.119 |
| 70 | 16.842 | 16.83 | 35.676 | 5.489 | 26.075 | 0.138 |
| 80 | 16.753 | 16.739 | 35.669 | 5.419 | 26.091 | 0.158 |
| 90 | 16.717 | 16.702 | 35.663 | 5.392 | 26.095 | 0.177 |
| 100 | 16.605 | 16.588 | 35.644 | 5.362 | 26.107 | 0.196 |
| 110 | 16.365 | 16.347 | 35.601 | 5.266 | 26.131 | 0.216 |
| 120 | 15.917 | 15.898 | 35.528 | 5.165 | 26.178 | 0.234 |
| 130 | 15.441 | 15.421 | 35.453 | 5.058 | 26.229 | 0.253 |
| 140 | 14.957 | 14.936 | 35.373 | 5.01 | 26.275 | 0.271 |
| 150 | 14.664 | 14.642 | 35.331 | 4.946 | 26.306 | 0.289 |
| 160 | 14.421 | 14.397 | 35.301 | 4.91 | 26.336 | 0.306 |
| 170 | 14.178 | 14.154 | 35.287 | 4.957 | 26.377 | 0.323 |
| 180 | 13.973 | 13.947 | 35.256 | 4.956 | 26.397 | 0.340 |
| 190 | 13.893 | 13.865 | 35.249 | 5.005 | 26.409 | 0.357 |
| 200 | 13.757 | 13.728 | 35.232 | 5.057 | 26.424 | 0.373 |
| 210 | 13.516 | 13.486 | 35.199 | 5.067 | 26.449 | 0.390 |
| 220 | 13.409 | 13.378 | 35.189 | 4.969 | 26.463 | 0.406 |
| 230 | 13.254 | 13.222 | 35.172 | 4.9 | 26.482 | 0.422 |
| 240 | 13.18 | 13.146 | 35.159 | 4.876 | 26.487 | 0.438 |
| 250 | 13.043 | 13.008 | 35.142 | 4.922 | 26.502 | 0.454 |
| 260 | 12.863 | 12.827 | 35.124 | 4.896 | 26.524 | 0.470 |
| 270 | 12.732 | 12.695 | 35.111 | 4.839 | 26.54 | 0.486 |
| 280 | 12.615 | 12.577 | 35.099 | 4.773 | 26.554 | 0.501 |
| 290 | 12.476 | 12.437 | 35.085 | 4.752 | 26.571 | 0.517 |
| 300 | 12.415 | 12.375 | 35.077 | 4.735 | 26.577 | 0.532 |
| 325 | 11.851 | 11.809 | 35.016 | 4.715 | 26.639 | 0.570 |
| 350 | 11.447 | 11.402 | 34.968 | 4.653 | 26.677 | 0.606 |
| 375 | 10.968 | 10.922 | 34.912 | 4.611 | 26.722 | 0.642 |
| 400 | 10.448 | 10.4 | 34.85 | 4.613 | 26.766 | 0.676 |
| 425 | 10.115 | 10.064 | 34.803 | 4.73 | 26.787 | 0.710 |
| 450 | 9.544 | 9.493 | 34.739 | 4.684 | 26.834 | 0.743 |
| 475 | 9.148 | 9.095 | 34.694 | 4.556 | 26.864 | 0.776 |
| 500 | 8.553 | 8.5 | 34.638 | 4.521 | 26.914 | 0.807 |
| 550 | 7.538 | 7.483 | 34.538 | 4.513 | 26.987 | 0.867 |
| 600 | 6.625 | 6.569 | 34.461 | 4.626 | 27.053 | 0.923 |
| 650 | 5.85 | 5.794 | 34.395 | 4.803 | 27.101 | 0.976 |
| 700 | 5.273 | 5.215 | 34.358 | 4.918 | 27.141 | 1.027 |
| 750 | 4.705 | 4.646 | 34.339 | 4.898 | 27.191 | 1.076 |
| 800 | 4.401 | 4.339 | 34.338 | 4.834 | 27.224 | 1.123 |
| 850 | 4.129 | 4.065 | 34.346 | 4.718 | 27.259 | 1.168 |
| 900 | 3.903 | 3.836 | 34.357 | 4.609 | 27.291 | 1.211 |
| 950 | 3.705 | 3.636 | 34.37 | 4.514 | 27.322 | 1.253 |
| 1000 | 3.534 | 3.462 | 34.391 | 4.419 | 27.356 | 1.294 |
| 1100 | 3.283 | 3.205 | 34.457 | 4.175 | 27.433 | 1.370 |
| 1200 | 3.147 | 3.062 | 34.531 | 4.084 | 27.505 | 1.439 |
| 1300 | 3.072 | 2.98 | 34.595 | 4.121 | 27.564 | 1.503 |
| 1400 | 3.05 | 2.95 | 34.659 | 4.266 | 27.618 | 1.562 |
| 1500 | 3.073 | 2.964 | 34.715 | 4.434 | 27.661 | 1.617 |
| 1600 | 3.027 | 2.91 | 34.752 | 4.562 | 27.695 | 1.669 |
| 1700 | 2.988 | 2.863 | 34.784 | 4.692 | 27.725 | 1.719 |
| 1800 | 2.934 | 2.8 | 34.807 | 4.813 | 27.749 | 1.767 |
| 1900 | 2.891 | 2.749 | 34.818 | 4.862 | 27.763 | 1.814 |
| 2000 | 2.843 | 2.693 | 34.828 | 4.936 | 27.776 | 1.860 |

| PR | TE | PT | SA | OX | RN |
|---|---|---|---|---|---|
| 4.4 | 17.175 | 17.174 | 35.734 | 5.500 | 24 |
| 4.7 | 17.174 | 17.173 | 35.734 | 5.504 | 23 |
| 50.8 | 16.884 | 16.876 | 35.675 | 5.549 | 21 |
| 50.8 | 16.881 | 16.873 | 35.675 | 5.558 | 22 |
| 149.0 | 14.489 | 14.467 | 35.304 | 4.909 | 20 |
| 149.6 | 14.477 | 14.455 | 35.305 | 4.918 | 19 |
| 250.0 | 12.980 | 12.945 | 35.132 | 4.902 | 17 |
| 250.1 | 12.978 | 12.944 | 35.133 | 4.902 | 18 |
| 349.5 | 11.625 | 11.580 | 34.985 | 4.728 | 16 |
| 500.0 | 8.675 | 8.621 | 34.635 | 4.540 | 13 |
| 750.6 | 4.731 | 4.671 | 34.339 | 4.871 | 11 |
| 1002.9 | 3.519 | 3.447 | 34.393 | 4.437 | 10 |
| 1003.6 | 3.518 | 3.446 | 34.393 | 4.439 | 9 |
| 1248.5 | 3.093 | 3.004 | 34.568 | 4.121 | 8 |
| 1249.2 | 3.093 | 3.004 | 34.567 | 4.121 | 7 |
| 1501.9 | 3.064 | 2.955 | 34.726 | 4.439 | 5 |
| 1502.6 | 3.064 | 2.955 | 34.727 | 4.443 | 6 |
| 1748.1 | 2.983 | 2.854 | 34.799 | 4.741 | 3 |
| 1749.4 | 2.983 | 2.854 | 34.798 | 4.752 | 4 |
| 2002.9 | 2.835 | 2.685 | 34.828 | 4.929 | 2 |
| 2003.3 | 2.836 | 2.686 | 34.828 | 4.934 | 1 |


CTD sj970517
— Potential Temperature
0 5 10 15 20
0 100 200 300 400 500 600 700 800 900 1000 1100 1200 1300 1400 1500 1600 1700 1800 1900 2000 2100 2200
Pressure
34.5 35.0 35.5 36.0 36.5
---- Salinity
2 3 4 5 6
····· Oxygen


Potential Temperature
0 5 10 15 20
34.5 35.0 35.5 36.0 36.5
Salinity


Potential Temperature
0 5 10 15 20
2 3 4 5 6
Oxygen

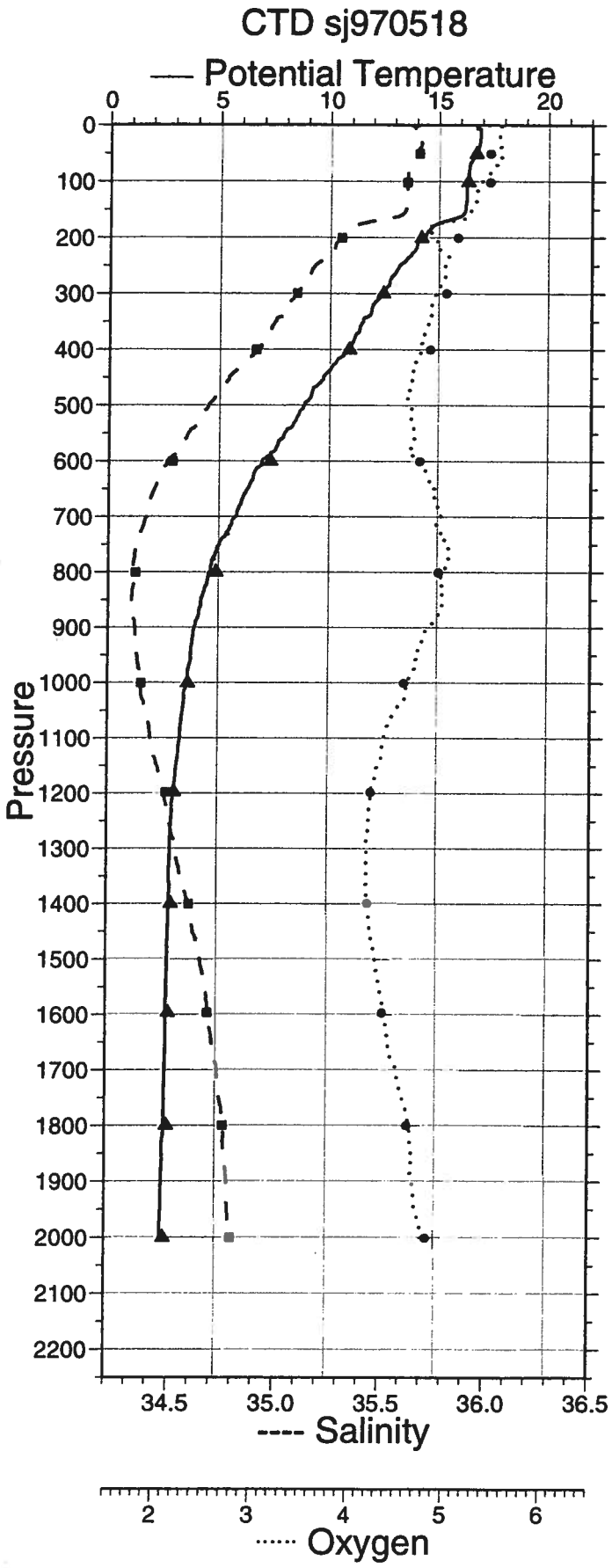

Salinity
34.5 35.0 35.5 36.0 36.5
2 3 4 5 6
Oxygen

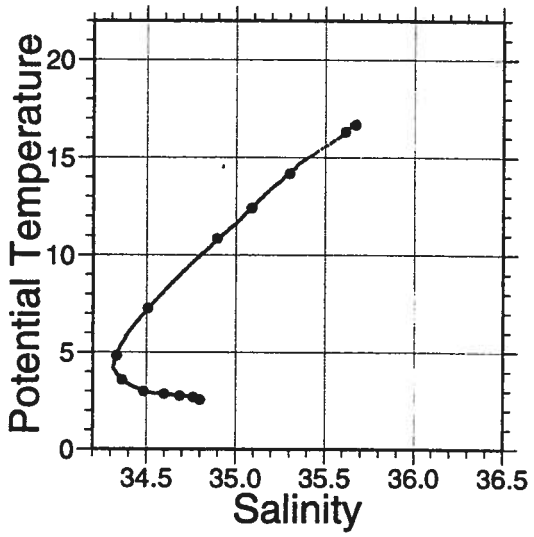
# station 18

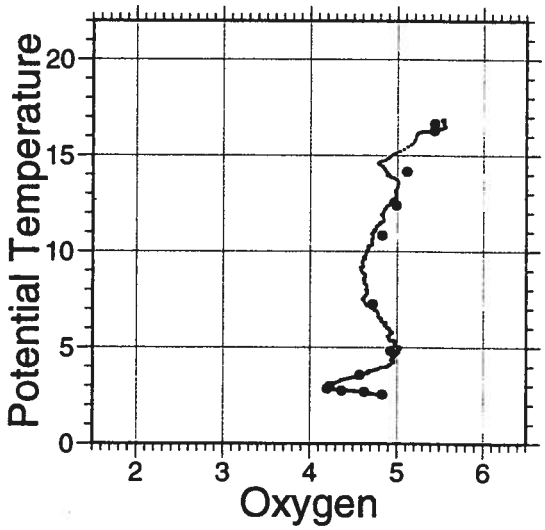
**lat. 31 0.00 S** **97/09/11**
**lon. 0 0.07 W** **15:49:24**

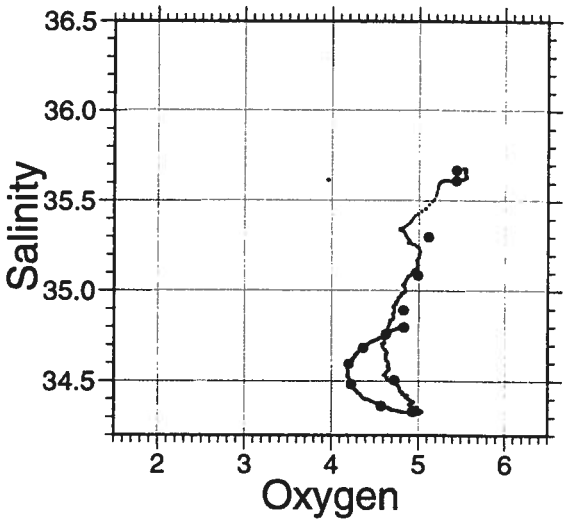
| PR | TE | PT | SA | OX | S0 | HZ |
|---|---|---|---|---|---|---|
| 0 | 16.812 | 16.812 | 35.665 | 5.548 | 26.071 | 0.000 |
| 10 | 16.896 | 16.894 | 35.68 | 5.549 | 26.063 | 0.019 |
| 20 | 16.892 | 16.889 | 35.681 | 5.532 | 26.065 | 0.039 |
| 30 | 16.856 | 16.851 | 35.683 | 5.525 | 26.075 | 0.058 |
| 40 | 16.762 | 16.755 | 35.674 | 5.549 | 26.091 | 0.077 |
| 50 | 16.661 | 16.653 | 35.66 | 5.549 | 26.104 | 0.097 |
| 60 | 16.542 | 16.532 | 35.638 | 5.565 | 26.116 | 0.116 |
| 70 | 16.416 | 16.405 | 35.621 | 5.506 | 26.133 | 0.135 |
| 80 | 16.377 | 16.364 | 35.619 | 5.462 | 26.141 | 0.154 |
| 90 | 16.352 | 16.338 | 35.618 | 5.417 | 26.146 | 0.173 |
| 100 | 16.284 | 16.268 | 35.613 | 5.358 | 26.158 | 0.192 |
| 110 | 16.282 | 16.265 | 35.614 | 5.32 | 26.16 | 0.210 |
| 120 | 16.282 | 16.263 | 35.616 | 5.309 | 26.162 | 0.229 |
| 130 | 16.283 | 16.262 | 35.616 | 5.299 | 26.162 | 0.248 |
| 140 | 16.269 | 16.247 | 35.613 | 5.272 | 26.163 | 0.267 |
| 150 | 16.241 | 16.217 | 35.608 | 5.245 | 26.166 | 0.286 |
| 160 | 16.113 | 16.088 | 35.587 | 5.222 | 26.18 | 0.305 |
| 170 | 15.357 | 15.331 | 35.459 | 5.077 | 26.253 | 0.323 |
| 180 | 14.723 | 14.696 | 35.351 | 4.814 | 26.31 | 0.341 |
| 190 | 14.517 | 14.488 | 35.336 | 4.815 | 26.343 | 0.358 |
| 200 | 14.322 | 14.292 | 35.305 | 4.857 | 26.361 | 0.376 |
| 210 | 14.049 | 14.019 | 35.271 | 4.902 | 26.393 | 0.393 |
| 220 | 13.975 | 13.943 | 35.266 | 4.902 | 26.405 | 0.410 |
| 230 | 13.784 | 13.751 | 35.242 | 4.998 | 26.427 | 0.426 |
| 240 | 13.536 | 13.501 | 35.208 | 5.004 | 26.452 | 0.443 |
| 250 | 13.224 | 13.189 | 35.171 | 4.978 | 26.488 | 0.459 |
| 260 | 13.077 | 13.041 | 35.155 | 4.98 | 26.505 | 0.475 |
| 270 | 12.88 | 12.843 | 35.131 | 4.98 | 26.527 | 0.491 |
| 280 | 12.796 | 12.758 | 35.122 | 4.96 | 26.537 | 0.507 |
| 290 | 12.624 | 12.584 | 35.106 | 4.924 | 26.558 | 0.522 |
| 300 | 12.447 | 12.407 | 35.087 | 4.902 | 26.579 | 0.538 |
| 325 | 11.984 | 11.941 | 35.035 | 4.82 | 26.628 | 0.575 |
| 350 | 11.557 | 11.512 | 34.986 | 4.8 | 26.671 | 0.612 |
| 375 | 11.215 | 11.167 | 34.943 | 4.757 | 26.701 | 0.648 |
| 400 | 10.97 | 10.92 | 34.912 | 4.708 | 26.722 | 0.683 |
| 425 | 10.287 | 10.237 | 34.831 | 4.675 | 26.78 | 0.718 |
| 450 | 9.777 | 9.725 | 34.769 | 4.619 | 26.819 | 0.752 |
| 475 | 9.252 | 9.199 | 34.71 | 4.613 | 26.859 | 0.784 |
| 500 | 8.908 | 8.853 | 34.672 | 4.62 | 26.885 | 0.816 |
| 550 | 8.003 | 7.947 | 34.577 | 4.655 | 26.95 | 0.877 |
| 600 | 7.008 | 6.951 | 34.481 | 4.742 | 27.017 | 0.936 |
| 650 | 6.356 | 6.297 | 34.42 | 4.877 | 27.056 | 0.991 |
| 700 | 5.811 | 5.75 | 34.383 | 4.941 | 27.097 | 1.045 |
| 750 | 5.09 | 5.029 | 34.335 | 5.031 | 27.145 | 1.096 |
| 800 | 4.671 | 4.608 | 34.322 | 4.97 | 27.182 | 1.145 |
| 850 | 4.292 | 4.227 | 34.314 | 4.958 | 27.217 | 1.192 |
| 900 | 4.012 | 3.945 | 34.331 | 4.807 | 27.26 | 1.238 |
| 950 | 3.86 | 3.79 | 34.341 | 4.691 | 27.283 | 1.282 |
| 1000 | 3.682 | 3.609 | 34.359 | 4.617 | 27.316 | 1.324 |
| 1100 | 3.402 | 3.323 | 34.407 | 4.365 | 27.382 | 1.405 |
| 1200 | 3.141 | 3.057 | 34.471 | 4.242 | 27.458 | 1.479 |
| 1300 | 3.008 | 2.917 | 34.527 | 4.184 | 27.515 | 1.546 |
| 1400 | 2.979 | 2.879 | 34.59 | 4.206 | 27.569 | 1.610 |
| 1500 | 2.924 | 2.817 | 34.649 | 4.286 | 27.622 | 1.668 |
| 1600 | 2.886 | 2.77 | 34.687 | 4.384 | 27.656 | 1.724 |
| 1700 | 2.873 | 2.749 | 34.73 | 4.507 | 27.692 | 1.777 |
| 1800 | 2.84 | 2.708 | 34.763 | 4.648 | 27.722 | 1.827 |
| 1900 | 2.761 | 2.621 | 34.779 | 4.68 | 27.743 | 1.875 |
| 2000 | 2.71 | 2.562 | 34.799 | 4.777 | 27.764 | 1.922 |

| PR | TE | PT | SA | OX | RN |
|---|---|---|---|---|---|
| 50.7 | 16.696 | 16.688 | 35.672 | 5.440 | 17 |
| 101.5 | 16.329 | 16.313 | 35.614 | 5.437 | 16 |
| 200.5 | 14.204 | 14.175 | 35.300 | 5.111 | 14 |
| 299.4 | 12.459 | 12.418 | 35.088 | 4.990 | 12 |
| 399.9 | 10.896 | 10.846 | 34.895 | 4.826 | 11 |
| 600.3 | 7.329 | 7.270 | 34.506 | 4.723 | 9 |
| 800.3 | 4.892 | 4.827 | 34.332 | 4.925 | 7 |
| 1000.5 | 3.661 | 3.588 | 34.363 | 4.573 | 6 |
| 1197.8 | 3.079 | 2.995 | 34.484 | 4.229 | 5 |
| 1400.2 | 2.970 | 2.871 | 34.596 | 4.199 | 4 |
| 1596.7 | 2.882 | 2.768 | 34.686 | 4.367 | 3 |
| 1799.4 | 2.836 | 2.704 | 34.761 | 4.627 | 2 |
| 2000.6 | 2.710 | 2.562 | 34.798 | 4.828 | 1 |


CTD sj970518
— Potential Temperature
0 5 10 15 20
Pressure
0 100 200 300 400 500 600 700 800 900 1000 1100 1200 1300 1400 1500 1600 1700 1800 1900 2000 2100 2200
34.5 35.0 35.5 36.0 36.5
---- Salinity
2 3 4 5 6
····· Oxygen


Potential Temperature
0 5 10 15 20
34.5 35.0 35.5 36.0 36.5
Salinity


Potential Temperature
0 5 10 15 20
2 3 4 5 6
Oxygen


Salinity
34.5 35.0 35.5 36.0 36.5
2 3 4 5 6
Oxygen

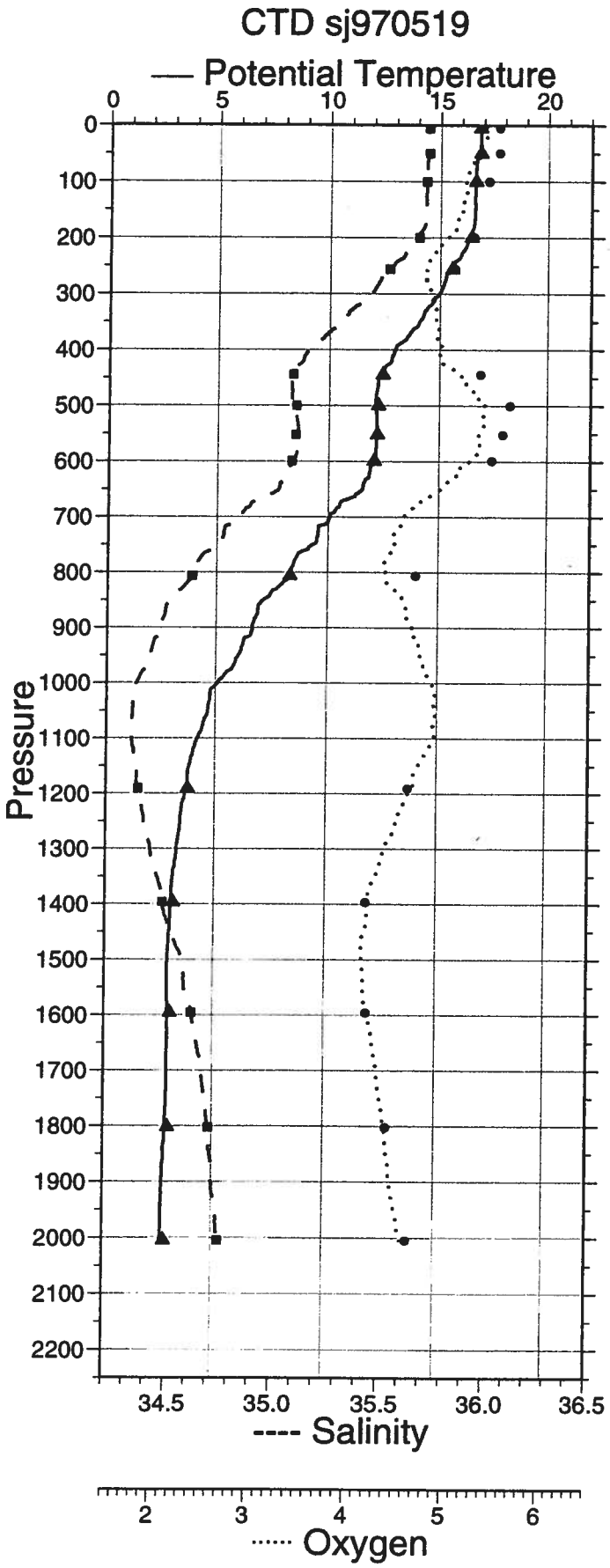
# station 19

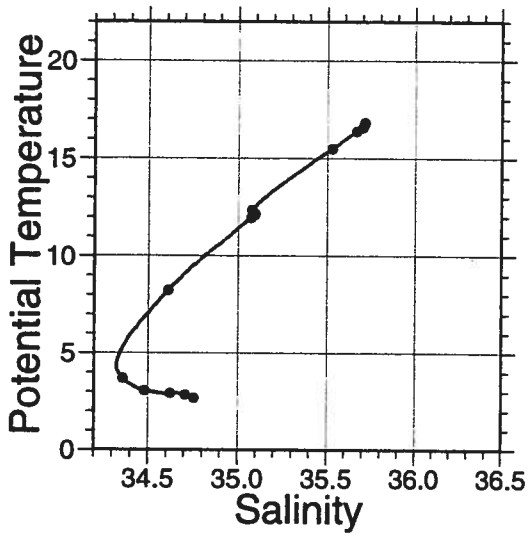
**lat. 31 26.88 S**
**lon. 2 16.38 W**

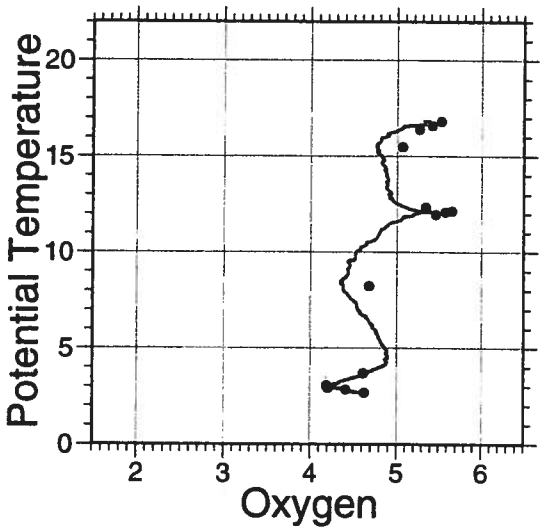
**97/09/14**
**04:39:45**

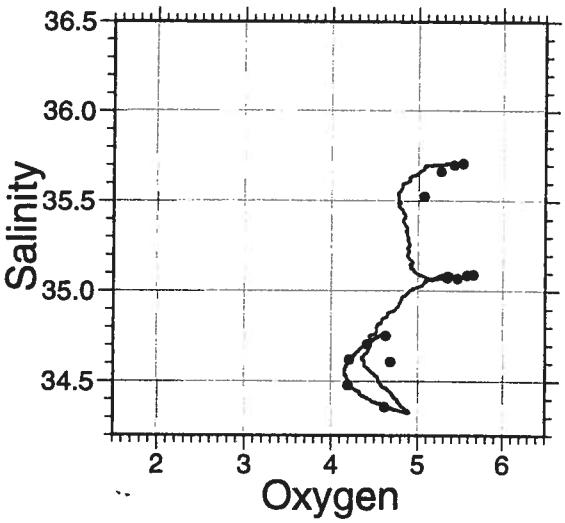
| PR | TE | PT | SA | OX | S0 | HZ |
|---|---|---|---|---|---|---|
| 0 | 16.833 | 16.833 | 35.712 | 5.387 | 26.102 | 0.000 |
| 10 | 16.842 | 16.841 | 35.71 | 5.388 | 26.098 | 0.019 |
| 20 | 16.843 | 16.84 | 35.711 | 5.389 | 26.099 | 0.038 |
| 30 | 16.844 | 16.839 | 35.711 | 5.346 | 26.099 | 0.057 |
| 40 | 16.85 | 16.843 | 35.711 | 5.329 | 26.098 | 0.076 |
| 50 | 16.848 | 16.84 | 35.712 | 5.345 | 26.1 | 0.096 |
| 60 | 16.681 | 16.671 | 35.706 | 5.335 | 26.135 | 0.115 |
| 70 | 16.65 | 16.638 | 35.703 | 5.222 | 26.141 | 0.134 |
| 80 | 16.641 | 16.628 | 35.703 | 5.21 | 26.143 | 0.152 |
| 90 | 16.64 | 16.625 | 35.703 | 5.197 | 26.144 | 0.171 |
| 100 | 16.638 | 16.622 | 35.703 | 5.177 | 26.145 | 0.190 |
| 110 | 16.628 | 16.611 | 35.701 | 5.182 | 26.146 | 0.209 |
| 120 | 16.619 | 16.6 | 35.7 | 5.174 | 26.148 | 0.228 |
| 130 | 16.612 | 16.591 | 35.699 | 5.146 | 26.149 | 0.247 |
| 140 | 16.618 | 16.595 | 35.7 | 5.155 | 26.149 | 0.266 |
| 150 | 16.619 | 16.595 | 35.701 | 5.14 | 26.15 | 0.285 |
| 160 | 16.613 | 16.587 | 35.7 | 5.105 | 26.151 | 0.304 |
| 170 | 16.594 | 16.566 | 35.696 | 5.1 | 26.152 | 0.323 |
| 180 | 16.566 | 16.536 | 35.691 | 5.069 | 26.156 | 0.343 |
| 190 | 16.463 | 16.432 | 35.674 | 5.051 | 26.167 | 0.362 |
| 200 | 16.355 | 16.323 | 35.655 | 4.99 | 26.178 | 0.381 |
| 210 | 16.278 | 16.244 | 35.641 | 4.929 | 26.185 | 0.400 |
| 220 | 16.175 | 16.14 | 35.624 | 4.897 | 26.196 | 0.419 |
| 230 | 16.007 | 15.97 | 35.599 | 4.819 | 26.216 | 0.437 |
| 240 | 15.814 | 15.777 | 35.571 | 4.804 | 26.239 | 0.456 |
| 250 | 15.64 | 15.601 | 35.542 | 4.763 | 26.257 | 0.474 |
| 260 | 15.478 | 15.438 | 35.516 | 4.768 | 26.273 | 0.493 |
| 270 | 15.31 | 15.268 | 35.489 | 4.775 | 26.29 | 0.511 |
| 280 | 15.231 | 15.187 | 35.474 | 4.776 | 26.297 | 0.529 |
| 290 | 15.14 | 15.095 | 35.46 | 4.802 | 26.306 | 0.547 |
| 300 | 14.996 | 14.95 | 35.438 | 4.824 | 26.322 | 0.565 |
| 325 | 14.476 | 14.427 | 35.357 | 4.863 | 26.373 | 0.609 |
| 350 | 14.116 | 14.065 | 35.3 | 4.88 | 26.406 | 0.652 |
| 375 | 13.582 | 13.529 | 35.224 | 4.893 | 26.459 | 0.695 |
| 400 | 13.017 | 12.961 | 35.145 | 4.918 | 26.514 | 0.736 |
| 425 | 12.744 | 12.686 | 35.111 | 4.946 | 26.542 | 0.776 |
| 450 | 12.292 | 12.232 | 35.069 | 5.166 | 26.599 | 0.816 |
| 475 | 12.203 | 12.14 | 35.071 | 5.279 | 26.618 | 0.854 |
| 500 | 12.179 | 12.112 | 35.079 | 5.386 | 26.63 | 0.893 |
| 550 | 12.237 | 12.164 | 35.103 | 5.333 | 26.638 | 0.970 |
| 600 | 12.096 | 12.016 | 35.082 | 5.227 | 26.65 | 1.047 |
| 650 | 11.606 | 11.521 | 35.013 | 4.924 | 26.69 | 1.123 |
| 700 | 10.153 | 10.069 | 34.82 | 4.542 | 26.8 | 1.196 |
| 750 | 9.378 | 9.292 | 34.727 | 4.458 | 26.857 | 1.265 |
| 800 | 8.424 | 8.337 | 34.618 | 4.368 | 26.923 | 1.330 |
| 850 | 7.217 | 7.133 | 34.507 | 4.54 | 27.012 | 1.392 |
| 900 | 6.738 | 6.652 | 34.459 | 4.643 | 27.04 | 1.450 |
| 950 | 6.117 | 6.03 | 34.407 | 4.728 | 27.08 | 1.506 |
| 1000 | 5.171 | 5.086 | 34.346 | 4.85 | 27.147 | 1.560 |
| 1100 | 4.281 | 4.194 | 34.326 | 4.878 | 27.23 | 1.658 |
| 1200 | 3.748 | 3.658 | 34.365 | 4.616 | 27.316 | 1.748 |
| 1300 | 3.392 | 3.297 | 34.418 | 4.356 | 27.393 | 1.830 |
| 1400 | 3.156 | 3.055 | 34.481 | 4.212 | 27.466 | 1.904 |
| 1500 | 3.033 | 2.924 | 34.571 | 4.155 | 27.55 | 1.972 |
| 1600 | 3.056 | 2.939 | 34.625 | 4.224 | 27.591 | 2.034 |
| 1700 | 3.056 | 2.93 | 34.67 | 4.31 | 27.628 | 2.093 |
| 1800 | 3.004 | 2.87 | 34.704 | 4.39 | 27.661 | 2.150 |
| 1900 | 2.885 | 2.744 | 34.724 | 4.463 | 27.688 | 2.204 |
| 2000 | 2.844 | 2.695 | 34.755 | 4.569 | 27.717 | 2.256 |
| 2005 | 2.839 | 2.689 | 34.757 | 4.57 | 27.719 | 2.259 |

| PR | TE | PT | SA | OX | RN |
|---|---|---|---|---|---|
| 4.7 | 16.827 | 16.826 | 35.712 | 5.525 | 19 |
| 49.8 | 16.841 | 16.833 | 35.713 | 5.527 | 18 |
| 100.0 | 16.622 | 16.606 | 35.702 | 5.417 | 17 |
| 199.3 | 16.441 | 16.408 | 35.667 | 5.263 | 15 |
| 255.5 | 15.547 | 15.508 | 35.527 | 5.066 | 14 |
| 443.6 | 12.412 | 12.353 | 35.077 | 5.339 | 12 |
| 499.5 | 12.212 | 12.145 | 35.094 | 5.652 | 11 |
| 551.6 | 12.181 | 12.107 | 35.091 | 5.578 | 10 |
| 598.6 | 12.049 | 11.969 | 35.073 | 5.464 | 9 |
| 805.9 | 8.321 | 8.235 | 34.609 | 4.678 | 7 |
| 1190.5 | 3.789 | 3.699 | 34.358 | 4.614 | 5 |
| 1396.5 | 3.160 | 3.060 | 34.480 | 4.188 | 4 |
| 1595.5 | 3.053 | 2.937 | 34.622 | 4.202 | 3 |
| 1801.8 | 2.987 | 2.853 | 34.707 | 4.412 | 2 |
| 2004.5 | 2.838 | 2.689 | 34.754 | 4.627 | 1 |


CTD sj970519
— Potential Temperature
0 5 10 15 20
Pressure
0 100 200 300 400 500 600 700 800 900 1000 1100 1200 1300 1400 1500 1600 1700 1800 1900 2000 2100 2200
34.5 35.0 35.5 36.0 36.5
---- Salinity
2 3 4 5 6
····· Oxygen


Potential Temperature
0 5 10 15 20
34.5 35.0 35.5 36.0 36.5
Salinity


Potential Temperature
0 5 10 15 20
2 3 4 5 6
Oxygen


Salinity
34.5 35.0 35.5 36.0 36.5
2 3 4 5 6
Oxygen

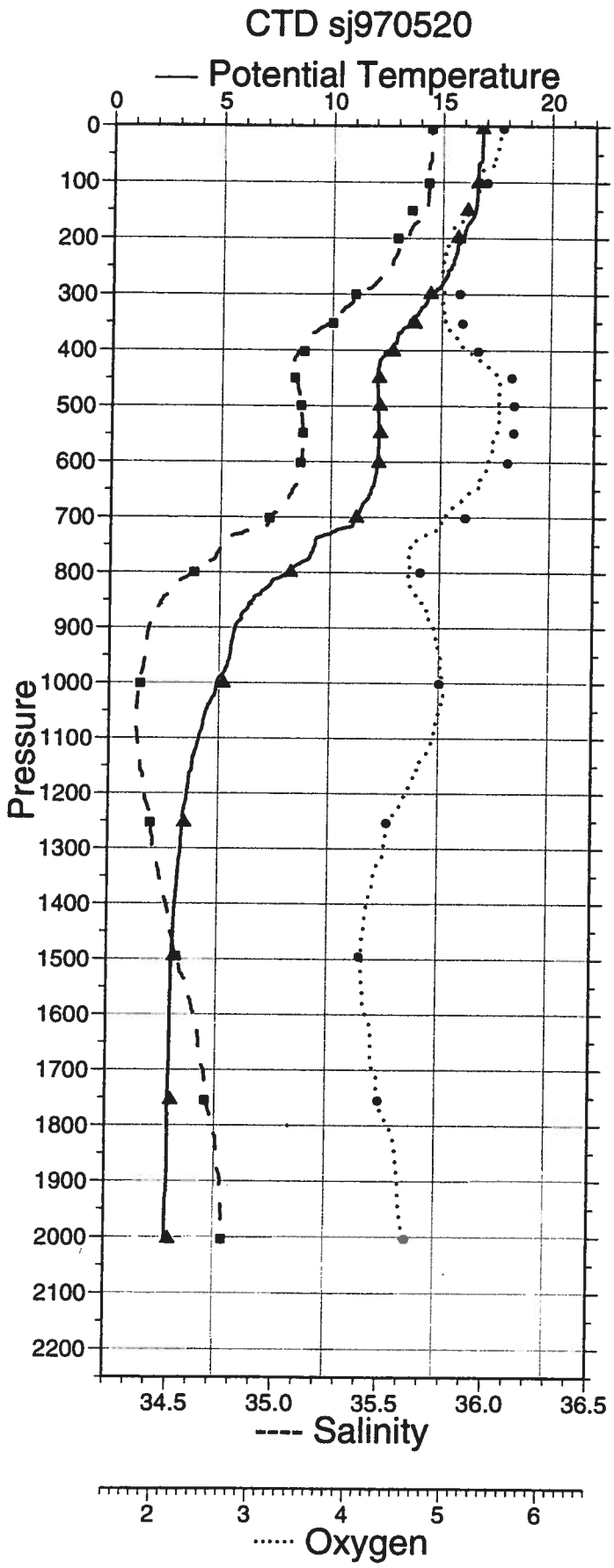
# station 20

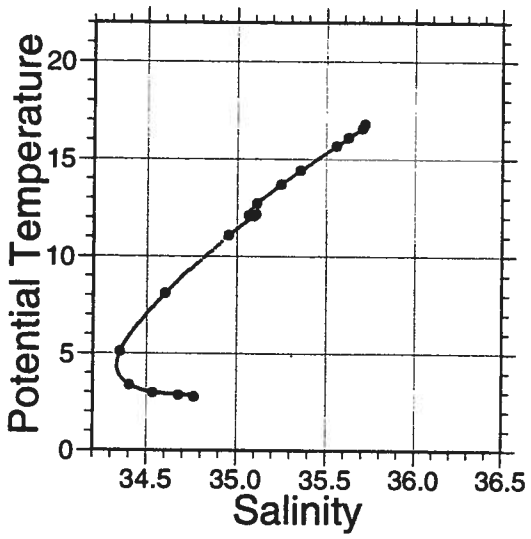
**lat. 31 26.88 S**
**lon. 2 16.38 W**

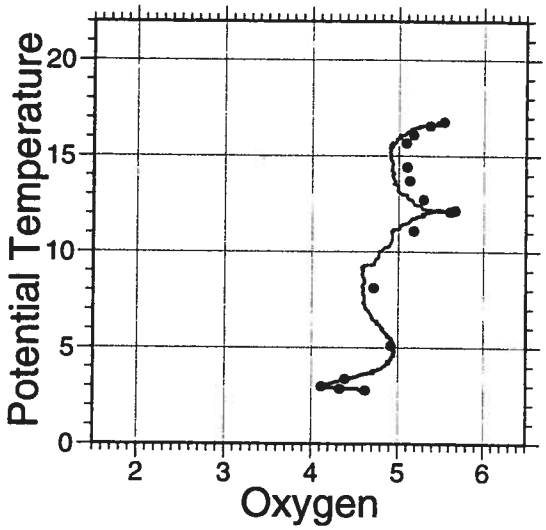
**97/09/14**
**08:13:24**

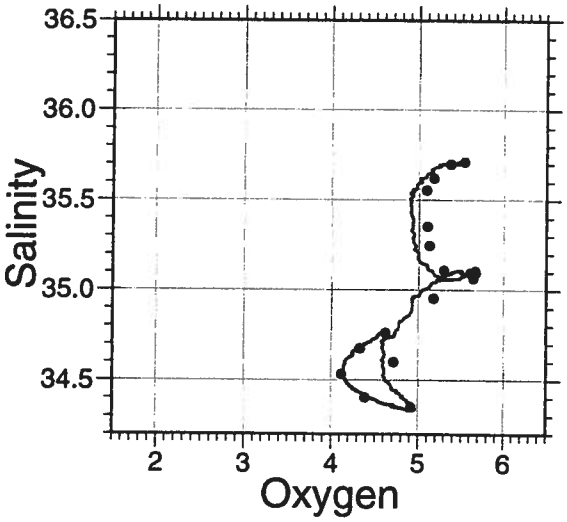
| PR | TE | PT | SA | OX | S0 | HZ |
|---|---|---|---|---|---|---|
| 0 | 16.794 | 16.794 | 35.713 | 5.496 | 26.112 | 0.000 |
| 10 | 16.797 | 16.795 | 35.712 | 5.493 | 26.111 | 0.019 |
| 20 | 16.797 | 16.793 | 35.712 | 5.501 | 26.111 | 0.038 |
| 30 | 16.796 | 16.791 | 35.712 | 5.499 | 26.112 | 0.057 |
| 40 | 16.787 | 16.781 | 35.711 | 5.481 | 26.113 | 0.076 |
| 50 | 16.794 | 16.786 | 35.712 | 5.475 | 26.113 | 0.095 |
| 60 | 16.787 | 16.777 | 35.711 | 5.453 | 26.114 | 0.114 |
| 70 | 16.663 | 16.651 | 35.702 | 5.434 | 26.137 | 0.133 |
| 80 | 16.619 | 16.606 | 35.7 | 5.318 | 26.146 | 0.152 |
| 90 | 16.61 | 16.595 | 35.7 | 5.303 | 26.149 | 0.171 |
| 100 | 16.61 | 16.593 | 35.701 | 5.304 | 26.15 | 0.190 |
| 110 | 16.607 | 16.589 | 35.701 | 5.29 | 26.151 | 0.209 |
| 120 | 16.591 | 16.571 | 35.699 | 5.268 | 26.153 | 0.228 |
| 130 | 16.583 | 16.562 | 35.698 | 5.262 | 26.155 | 0.247 |
| 140 | 16.568 | 16.545 | 35.696 | 5.23 | 26.157 | 0.265 |
| 150 | 16.526 | 16.502 | 35.688 | 5.245 | 26.161 | 0.284 |
| 160 | 16.446 | 16.42 | 35.673 | 5.153 | 26.169 | 0.303 |
| 170 | 16.302 | 16.275 | 35.649 | 5.112 | 26.184 | 0.322 |
| 180 | 16.122 | 16.093 | 35.622 | 5.042 | 26.206 | 0.341 |
| 190 | 16.055 | 16.025 | 35.611 | 5.019 | 26.213 | 0.360 |
| 200 | 15.966 | 15.934 | 35.597 | 5.024 | 26.223 | 0.378 |
| 210 | 15.765 | 15.732 | 35.567 | 4.972 | 26.246 | 0.397 |
| 220 | 15.73 | 15.695 | 35.559 | 4.923 | 26.248 | 0.415 |
| 230 | 15.666 | 15.63 | 35.549 | 4.942 | 26.255 | 0.433 |
| 240 | 15.584 | 15.546 | 35.534 | 4.91 | 26.263 | 0.452 |
| 250 | 15.468 | 15.429 | 35.517 | 4.91 | 26.276 | 0.470 |
| 260 | 15.315 | 15.275 | 35.491 | 4.909 | 26.29 | 0.488 |
| 270 | 15.224 | 15.182 | 35.476 | 4.901 | 26.299 | 0.506 |
| 280 | 15.073 | 15.03 | 35.452 | 4.913 | 26.315 | 0.524 |
| 290 | 14.838 | 14.794 | 35.417 | 4.911 | 26.34 | 0.542 |
| 300 | 14.568 | 14.523 | 35.373 | 4.928 | 26.364 | 0.559 |
| 325 | 14.107 | 14.059 | 35.303 | 4.947 | 26.41 | 0.602 |
| 350 | 13.594 | 13.544 | 35.224 | 4.955 | 26.456 | 0.645 |
| 375 | 13.05 | 12.998 | 35.147 | 5.049 | 26.508 | 0.686 |
| 400 | 12.671 | 12.617 | 35.098 | 5.167 | 26.546 | 0.726 |
| 425 | 12.243 | 12.186 | 35.059 | 5.387 | 26.6 | 0.765 |
| 450 | 12.169 | 12.109 | 35.072 | 5.49 | 26.625 | 0.804 |
| 475 | 12.194 | 12.131 | 35.088 | 5.513 | 26.633 | 0.842 |
| 500 | 12.222 | 12.155 | 35.098 | 5.491 | 26.636 | 0.880 |
| 550 | 12.254 | 12.18 | 35.108 | 5.471 | 26.639 | 0.957 |
| 600 | 12.233 | 12.153 | 35.104 | 5.41 | 26.641 | 1.034 |
| 650 | 11.937 | 11.85 | 35.059 | 5.274 | 26.664 | 1.111 |
| 700 | 11.244 | 11.154 | 34.963 | 4.932 | 26.719 | 1.187 |
| 750 | 9.378 | 9.292 | 34.73 | 4.614 | 26.86 | 1.258 |
| 800 | 8.176 | 8.091 | 34.6 | 4.598 | 26.946 | 1.323 |
| 850 | 6.606 | 6.526 | 34.452 | 4.688 | 27.052 | 1.382 |
| 900 | 5.799 | 5.719 | 34.388 | 4.857 | 27.104 | 1.437 |
| 950 | 5.579 | 5.496 | 34.372 | 4.914 | 27.119 | 1.491 |
| 1000 | 4.992 | 4.909 | 34.344 | 4.956 | 27.166 | 1.542 |
| 1100 | 4.186 | 4.1 | 34.337 | 4.849 | 27.248 | 1.639 |
| 1200 | 3.681 | 3.591 | 34.374 | 4.565 | 27.329 | 1.727 |
| 1300 | 3.423 | 3.328 | 34.418 | 4.366 | 27.39 | 1.808 |
| 1400 | 3.204 | 3.102 | 34.483 | 4.179 | 27.463 | 1.883 |
| 1500 | 3.088 | 2.98 | 34.535 | 4.141 | 27.516 | 1.952 |
| 1600 | 3.046 | 2.929 | 34.62 | 4.189 | 27.588 | 2.016 |
| 1700 | 3.027 | 2.902 | 34.669 | 4.274 | 27.63 | 2.075 |
| 1800 | 3.011 | 2.877 | 34.712 | 4.445 | 27.666 | 2.132 |
| 1900 | 3.006 | 2.863 | 34.752 | 4.54 | 27.7 | 2.186 |
| 2000 | 2.942 | 2.791 | 34.763 | 4.578 | 27.715 | 2.238 |
| 2005 | 2.942 | 2.79 | 34.763 | 4.573 | 27.715 | 2.240 |

| PR | TE | PT | SA | OX | RN |
|---|---|---|---|---|---|
| 4.5 | 16.793 | 16.792 | 35.714 | 5.531 | 19 |
| 101.1 | 16.595 | 16.579 | 35.700 | 5.368 | 18 |
| 150.1 | 16.133 | 16.109 | 35.622 | 5.169 | 17 |
| 199.3 | 15.715 | 15.683 | 35.555 | 5.086 | 16 |
| 299.3 | 14.471 | 14.427 | 35.354 | 5.095 | 14 |
| 351.6 | 13.769 | 13.718 | 35.246 | 5.122 | 13 |
| 401.7 | 12.787 | 12.732 | 35.110 | 5.292 | 12 |
| 449.2 | 12.181 | 12.121 | 35.066 | 5.641 | 11 |
| 498.7 | 12.220 | 12.153 | 35.097 | 5.668 | 10 |
| 548.4 | 12.253 | 12.179 | 35.107 | 5.663 | 9 |
| 601.7 | 12.186 | 12.105 | 35.097 | 5.603 | 8 |
| 700.9 | 11.189 | 11.100 | 34.954 | 5.173 | 7 |
| 799.6 | 8.194 | 8.109 | 34.600 | 4.712 | 6 |
| 1000.6 | 5.199 | 5.115 | 34.350 | 4.916 | 5 |
| 1253.3 | 3.482 | 3.390 | 34.404 | 4.387 | 4 |
| 1495.3 | 3.086 | 2.978 | 34.534 | 4.114 | 3 |
| 1754.7 | 3.004 | 2.874 | 34.677 | 4.327 | 2 |
| 2003.5 | 2.942 | 2.790 | 34.762 | 4.620 | 1 |


CTD sj970520
— Potential Temperature
0 5 10 15 20
Pressure
0 100 200 300 400 500 600 700 800 900 1000 1100 1200 1300 1400 1500 1600 1700 1800 1900 2000 2100 2200
34.5 35.0 35.5 36.0 36.5
---- Salinity
2 3 4 5 6
····· Oxygen


Potential Temperature
0 5 10 15 20
34.5 35.0 35.5 36.0 36.5
Salinity


Potential Temperature
0 5 10 15 20
2 3 4 5 6
Oxygen

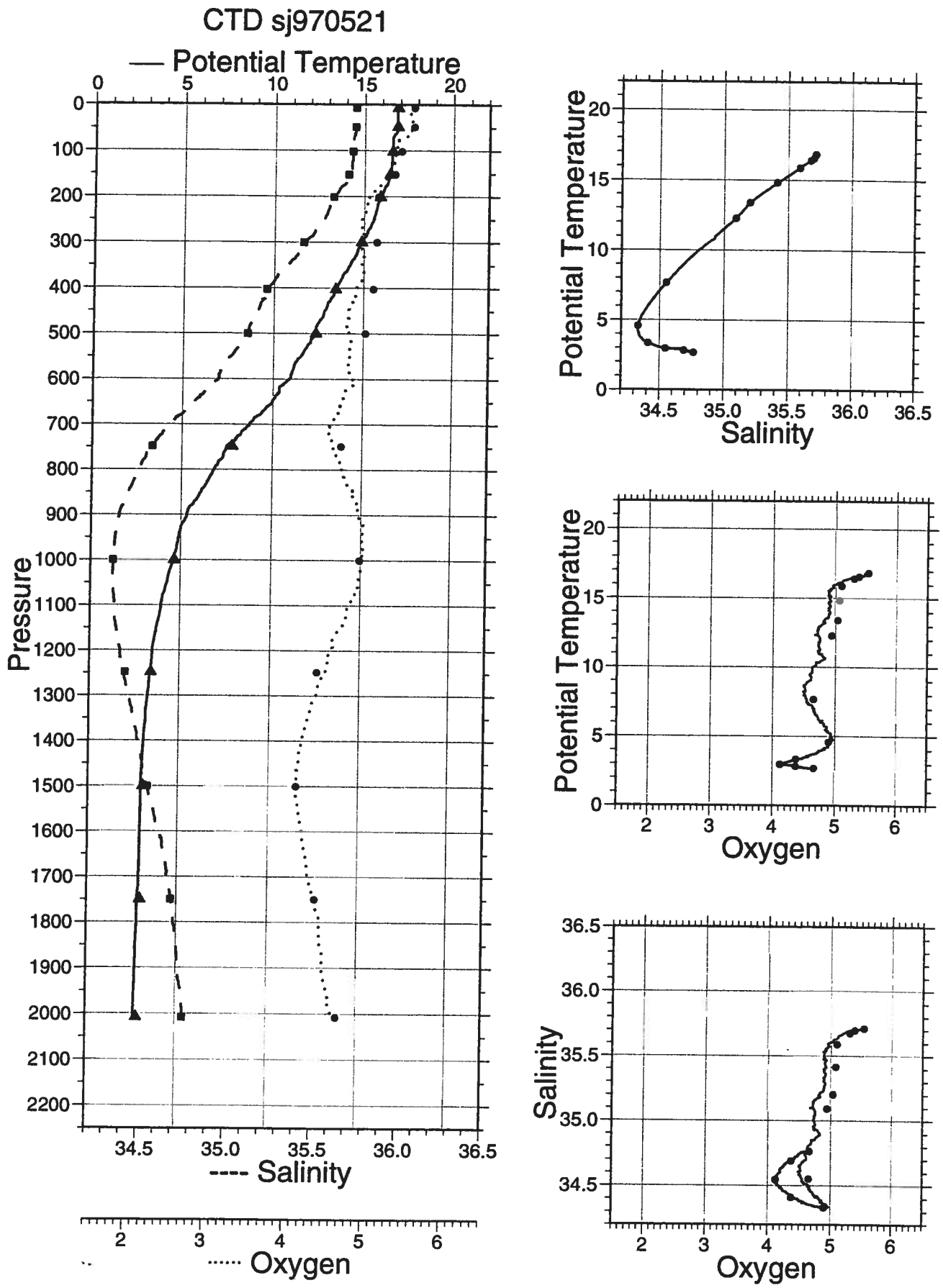

Salinity
34.5 35.0 35.5 36.0 36.5
2 3 4 5 6
Oxygen

# station 21

**lat. 31 27.53 S** **97/09/14**
**lon. 2 54.90 W** **11:15:43**

| PR | TE | PT | SA | OX | S0 | HZ |
|---|---|---|---|---|---|---|
| 0 | 16.842 | 16.842 | 35.715 | 5.508 | 26.102 | 0.000 |
| 10 | 16.83 | 16.828 | 35.714 | 5.505 | 26.104 | 0.019 |
| 20 | 16.831 | 16.827 | 35.714 | 5.49 | 26.104 | 0.038 |
| 30 | 16.828 | 16.823 | 35.714 | 5.512 | 26.106 | 0.057 |
| 40 | 16.83 | 16.823 | 35.715 | 5.514 | 26.106 | 0.076 |
| 50 | 16.828 | 16.82 | 35.715 | 5.503 | 26.107 | 0.095 |
| 60 | 16.796 | 16.786 | 35.713 | 5.48 | 26.114 | 0.114 |
| 70 | 16.616 | 16.604 | 35.704 | 5.438 | 26.15 | 0.133 |
| 80 | 16.595 | 16.582 | 35.7 | 5.317 | 26.152 | 0.152 |
| 90 | 16.586 | 16.571 | 35.7 | 5.338 | 26.154 | 0.171 |
| 100 | 16.574 | 16.558 | 35.698 | 5.323 | 26.156 | 0.190 |
| 110 | 16.571 | 16.553 | 35.698 | 5.305 | 26.157 | 0.209 |
| 120 | 16.571 | 16.551 | 35.699 | 5.311 | 26.158 | 0.228 |
| 130 | 16.543 | 16.522 | 35.694 | 5.285 | 26.161 | 0.246 |
| 140 | 16.53 | 16.508 | 35.694 | 5.255 | 26.165 | 0.265 |
| 150 | 16.491 | 16.467 | 35.687 | 5.238 | 26.169 | 0.284 |
| 160 | 16.43 | 16.404 | 35.675 | 5.192 | 26.174 | 0.303 |
| 170 | 16.356 | 16.328 | 35.661 | 5.138 | 26.181 | 0.322 |
| 180 | 16.182 | 16.153 | 35.631 | 5.064 | 26.199 | 0.341 |
| 190 | 16.083 | 16.052 | 35.614 | 5.04 | 26.209 | 0.359 |
| 200 | 16.014 | 15.982 | 35.604 | 4.969 | 26.217 | 0.378 |
| 210 | 15.858 | 15.825 | 35.581 | 4.962 | 26.236 | 0.397 |
| 220 | 15.77 | 15.735 | 35.566 | 4.943 | 26.245 | 0.415 |
| 230 | 15.719 | 15.683 | 35.557 | 4.913 | 26.25 | 0.433 |
| 240 | 15.662 | 15.625 | 35.548 | 4.908 | 26.256 | 0.452 |
| 250 | 15.58 | 15.541 | 35.535 | 4.884 | 26.265 | 0.470 |
| 260 | 15.452 | 15.412 | 35.514 | 4.888 | 26.278 | 0.488 |
| 270 | 15.335 | 15.293 | 35.495 | 4.887 | 26.289 | 0.506 |
| 280 | 15.211 | 15.168 | 35.474 | 4.882 | 26.301 | 0.525 |
| 290 | 15.062 | 15.017 | 35.449 | 4.899 | 26.315 | 0.542 |
| 300 | 14.919 | 14.874 | 35.426 | 4.908 | 26.329 | 0.560 |
| 325 | 14.643 | 14.594 | 35.382 | 4.889 | 26.356 | 0.605 |
| 350 | 14.289 | 14.237 | 35.326 | 4.897 | 26.39 | 0.648 |
| 375 | 13.879 | 13.824 | 35.263 | 4.896 | 26.428 | 0.691 |
| 400 | 13.501 | 13.444 | 35.211 | 4.826 | 26.467 | 0.734 |
| 425 | 13.25 | 13.19 | 35.178 | 4.808 | 26.493 | 0.775 |
| 450 | 12.901 | 12.839 | 35.15 | 4.721 | 26.542 | 0.816 |
| 475 | 12.583 | 12.518 | 35.117 | 4.718 | 26.58 | 0.856 |
| 500 | 12.345 | 12.277 | 35.093 | 4.73 | 26.608 | 0.895 |
| 550 | 11.593 | 11.521 | 34.998 | 4.733 | 26.678 | 0.971 |
| 600 | 10.951 | 10.876 | 34.928 | 4.787 | 26.742 | 1.045 |
| 650 | 10.039 | 9.962 | 34.797 | 4.634 | 26.8 | 1.116 |
| 700 | 8.791 | 8.714 | 34.657 | 4.506 | 26.895 | 1.182 |
| 750 | 7.543 | 7.468 | 34.535 | 4.547 | 26.987 | 1.244 |
| 800 | 6.892 | 6.815 | 34.475 | 4.668 | 27.031 | 1.303 |
| 850 | 6.171 | 6.093 | 34.416 | 4.768 | 27.079 | 1.359 |
| 900 | 5.41 | 5.333 | 34.363 | 4.881 | 27.131 | 1.412 |
| 950 | 4.969 | 4.891 | 34.343 | 4.951 | 27.167 | 1.463 |
| 1000 | 4.711 | 4.631 | 34.335 | 4.937 | 27.19 | 1.513 |
| 1100 | 4.046 | 3.962 | 34.342 | 4.756 | 27.267 | 1.607 |
| 1200 | 3.606 | 3.517 | 34.377 | 4.563 | 27.339 | 1.693 |
| 1300 | 3.373 | 3.278 | 34.43 | 4.359 | 27.404 | 1.773 |
| 1400 | 3.184 | 3.083 | 34.488 | 4.197 | 27.469 | 1.847 |
| 1500 | 3.084 | 2.975 | 34.542 | 4.141 | 27.522 | 1.916 |
| 1600 | 3.054 | 2.937 | 34.609 | 4.199 | 27.579 | 1.980 |
| 1700 | 3.012 | 2.887 | 34.665 | 4.28 | 27.628 | 2.040 |
| 1800 | 2.952 | 2.819 | 34.706 | 4.43 | 27.667 | 2.096 |
| 1900 | 2.888 | 2.747 | 34.732 | 4.469 | 27.694 | 2.149 |
| 2000 | 2.832 | 2.683 | 34.764 | 4.586 | 27.725 | 2.201 |
| 2005 | 2.827 | 2.677 | 34.766 | 4.588 | 27.727 | 2.203 |

| PR | TE | PT | SA | OX | RN |
|---|---|---|---|---|---|
| 6.8 | 16.850 | 16.849 | 35.716 | 5.540 | 14 |
| 48.5 | 16.839 | 16.831 | 35.714 | 5.540 | 13 |
| 101.7 | 16.579 | 16.563 | 35.699 | 5.381 | 12 |
| 151.9 | 16.434 | 16.410 | 35.675 | 5.301 | 11 |
| 201.2 | 15.908 | 15.876 | 35.590 | 5.093 | 10 |
| 299.8 | 14.870 | 14.825 | 35.416 | 5.075 | 9 |
| 402.6 | 13.449 | 13.392 | 35.203 | 5.034 | 8 |
| 499.7 | 12.352 | 12.284 | 35.093 | 4.936 | 7 |
| 748.1 | 7.763 | 7.686 | 34.552 | 4.649 | 6 |
| 999.7 | 4.658 | 4.578 | 34.332 | 4.898 | 5 |
| 1248.2 | 3.441 | 3.350 | 34.409 | 4.374 | 4 |
| 1500.2 | 3.081 | 2.972 | 34.547 | 4.123 | 3 |
| 1749.7 | 2.969 | 2.840 | 34.691 | 4.372 | 2 |
| 2007.9 | 2.828 | 2.677 | 34.764 | 4.658 | 1 |


CTD sj970521
— Potential Temperature
Pressure
---- Salinity
····· Oxygen
Potential Temperature
Salinity
Potential Temperature
Oxygen
Salinity
Oxygen

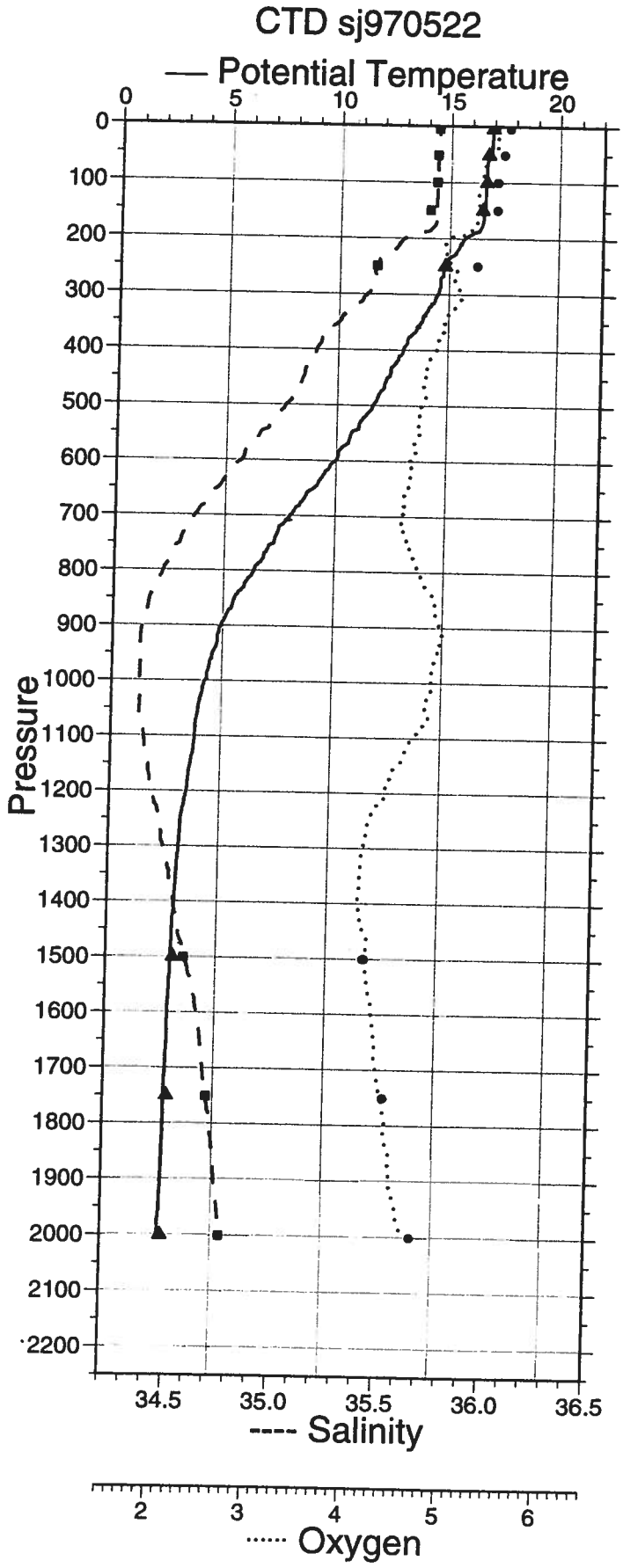
# station 22

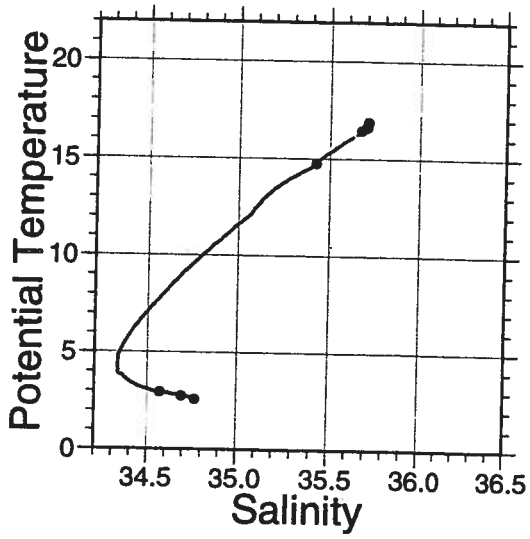
**lat. 31 28.08 S**
**lon. 3 18.97 W**

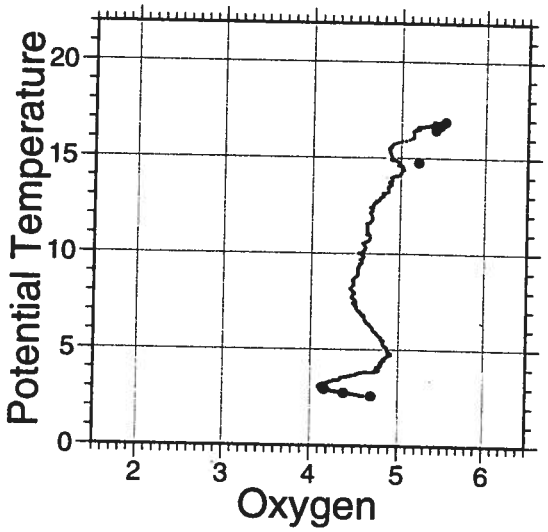
**97/09/14**
**14:34:30**

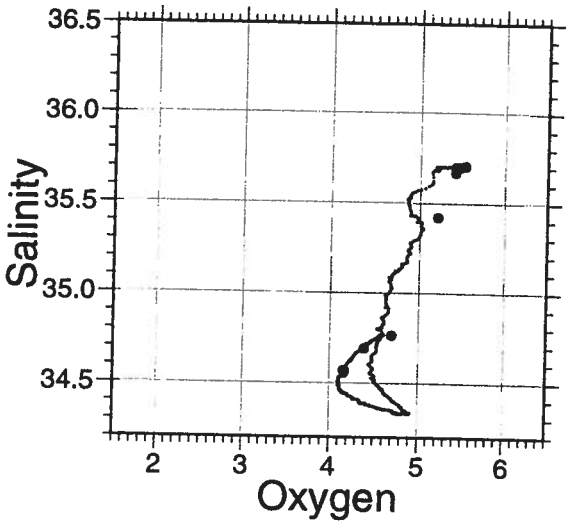
| PR | TE | PT | SA | OX | S0 | HZ |
|---|---|---|---|---|---|---|
| 0 | 16.908 | 16.908 | 35.711 | 5.4 | 26.083 | 0.000 |
| 10 | 16.906 | 16.904 | 35.711 | 5.407 | 26.084 | 0.019 |
| 20 | 16.899 | 16.896 | 35.711 | 5.401 | 26.086 | 0.038 |
| 30 | 16.896 | 16.891 | 35.711 | 5.386 | 26.087 | 0.058 |
| 40 | 16.877 | 16.87 | 35.711 | 5.384 | 26.092 | 0.077 |
| 50 | 16.82 | 16.812 | 35.708 | 5.374 | 26.104 | 0.096 |
| 60 | 16.713 | 16.703 | 35.706 | 5.328 | 26.128 | 0.115 |
| 70 | 16.67 | 16.659 | 35.705 | 5.274 | 26.138 | 0.134 |
| 80 | 16.669 | 16.656 | 35.704 | 5.257 | 26.137 | 0.153 |
| 90 | 16.663 | 16.648 | 35.705 | 5.252 | 26.14 | 0.172 |
| 100 | 16.657 | 16.64 | 35.703 | 5.24 | 26.14 | 0.191 |
| 110 | 16.651 | 16.633 | 35.703 | 5.215 | 26.142 | 0.210 |
| 120 | 16.648 | 16.628 | 35.704 | 5.226 | 26.144 | 0.229 |
| 130 | 16.643 | 16.622 | 35.703 | 5.213 | 26.145 | 0.248 |
| 140 | 16.636 | 16.613 | 35.703 | 5.214 | 26.147 | 0.267 |
| 150 | 16.56 | 16.535 | 35.691 | 5.176 | 26.156 | 0.286 |
| 160 | 16.582 | 16.556 | 35.704 | 5.203 | 26.161 | 0.305 |
| 170 | 16.557 | 16.529 | 35.702 | 5.182 | 26.166 | 0.324 |
| 180 | 16.47 | 16.441 | 35.687 | 5.157 | 26.175 | 0.343 |
| 190 | 16.117 | 16.086 | 35.618 | 5.146 | 26.204 | 0.362 |
| 200 | 15.719 | 15.688 | 35.552 | 4.9 | 26.245 | 0.380 |
| 210 | 15.573 | 15.54 | 35.53 | 4.871 | 26.261 | 0.399 |
| 220 | 15.421 | 15.387 | 35.508 | 4.868 | 26.279 | 0.417 |
| 230 | 15.205 | 15.169 | 35.471 | 4.885 | 26.298 | 0.435 |
| 240 | 14.937 | 14.901 | 35.434 | 4.889 | 26.329 | 0.453 |
| 250 | 14.899 | 14.861 | 35.431 | 4.94 | 26.336 | 0.470 |
| 260 | 14.776 | 14.737 | 35.415 | 4.989 | 26.351 | 0.488 |
| 270 | 14.662 | 14.622 | 35.4 | 4.99 | 26.364 | 0.505 |
| 280 | 14.656 | 14.615 | 35.399 | 4.978 | 26.365 | 0.522 |
| 290 | 14.613 | 14.57 | 35.396 | 5.017 | 26.372 | 0.540 |
| 300 | 14.518 | 14.473 | 35.377 | 5.011 | 26.378 | 0.557 |
| 325 | 14.136 | 14.088 | 35.302 | 4.974 | 26.403 | 0.600 |
| 350 | 13.822 | 13.771 | 35.248 | 4.886 | 26.427 | 0.643 |
| 375 | 13.332 | 13.279 | 35.18 | 4.868 | 26.476 | 0.685 |
| 400 | 13.026 | 12.971 | 35.142 | 4.791 | 26.51 | 0.726 |
| 425 | 12.659 | 12.601 | 35.106 | 4.701 | 26.555 | 0.766 |
| 450 | 12.327 | 12.266 | 35.08 | 4.688 | 26.6 | 0.805 |
| 475 | 12.028 | 11.965 | 35.048 | 4.685 | 26.634 | 0.844 |
| 500 | 11.675 | 11.61 | 34.998 | 4.653 | 26.662 | 0.882 |
| 550 | 10.731 | 10.664 | 34.883 | 4.637 | 26.745 | 0.955 |
| 600 | 10.04 | 9.969 | 34.797 | 4.563 | 26.799 | 1.025 |
| 650 | 9.058 | 8.985 | 34.685 | 4.533 | 26.874 | 1.092 |
| 700 | 7.991 | 7.918 | 34.577 | 4.492 | 26.954 | 1.155 |
| 750 | 7.313 | 7.238 | 34.51 | 4.503 | 27 | 1.215 |
| 800 | 6.436 | 6.362 | 34.434 | 4.649 | 27.059 | 1.272 |
| 850 | 5.595 | 5.522 | 34.372 | 4.801 | 27.116 | 1.326 |
| 900 | 5.004 | 4.93 | 34.34 | 4.874 | 27.16 | 1.377 |
| 950 | 4.629 | 4.554 | 34.335 | 4.847 | 27.198 | 1.426 |
| 1000 | 4.321 | 4.243 | 34.334 | 4.806 | 27.231 | 1.474 |
| 1100 | 3.908 | 3.825 | 34.356 | 4.608 | 27.292 | 1.564 |
| 1200 | 3.584 | 3.495 | 34.399 | 4.351 | 27.359 | 1.648 |
| 1300 | 3.298 | 3.204 | 34.459 | 4.123 | 27.434 | 1.725 |
| 1400 | 3.156 | 3.055 | 34.514 | 4.102 | 27.492 | 1.797 |
| 1500 | 3.049 | 2.941 | 34.575 | 4.181 | 27.551 | 1.863 |
| 1600 | 2.969 | 2.853 | 34.636 | 4.251 | 27.608 | 1.924 |
| 1700 | 2.921 | 2.797 | 34.673 | 4.314 | 27.643 | 1.981 |
| 1800 | 2.877 | 2.745 | 34.71 | 4.421 | 27.677 | 2.036 |
| 1900 | 2.829 | 2.689 | 34.735 | 4.479 | 27.702 | 2.089 |
| 2000 | 2.732 | 2.584 | 34.768 | 4.613 | 27.737 | 2.139 |

| PR | TE | PT | SA | OX | RN |
|---|---|---|---|---|---|
| 4.1 | 16.905 | 16.904 | 35.710 | 5.522 | 20 |
| 51.1 | 16.722 | 16.714 | 35.704 | 5.464 | 19 |
| 99.7 | 16.656 | 16.640 | 35.702 | 5.402 | 18 |
| 149.1 | 16.494 | 16.470 | 35.672 | 5.402 | 17 |
| 249.0 | 14.806 | 14.769 | 35.423 | 5.202 | 16 |
| 1500.0 | 3.052 | 2.944 | 34.571 | 4.157 | 6 |
| 1500.0 | 3.052 | 2.944 | 34.570 | 4.168 | 3 |
| 1750.3 | 2.884 | 2.756 | 34.692 | 4.390 | 2 |
| 2000.4 | 2.731 | 2.583 | 34.766 | 4.696 | 1 |


CTD sj970522
— Potential Temperature
Pressure
---- Salinity
····· Oxygen


Potential Temperature
Salinity


Potential Temperature
Oxygen


Salinity
Oxygen

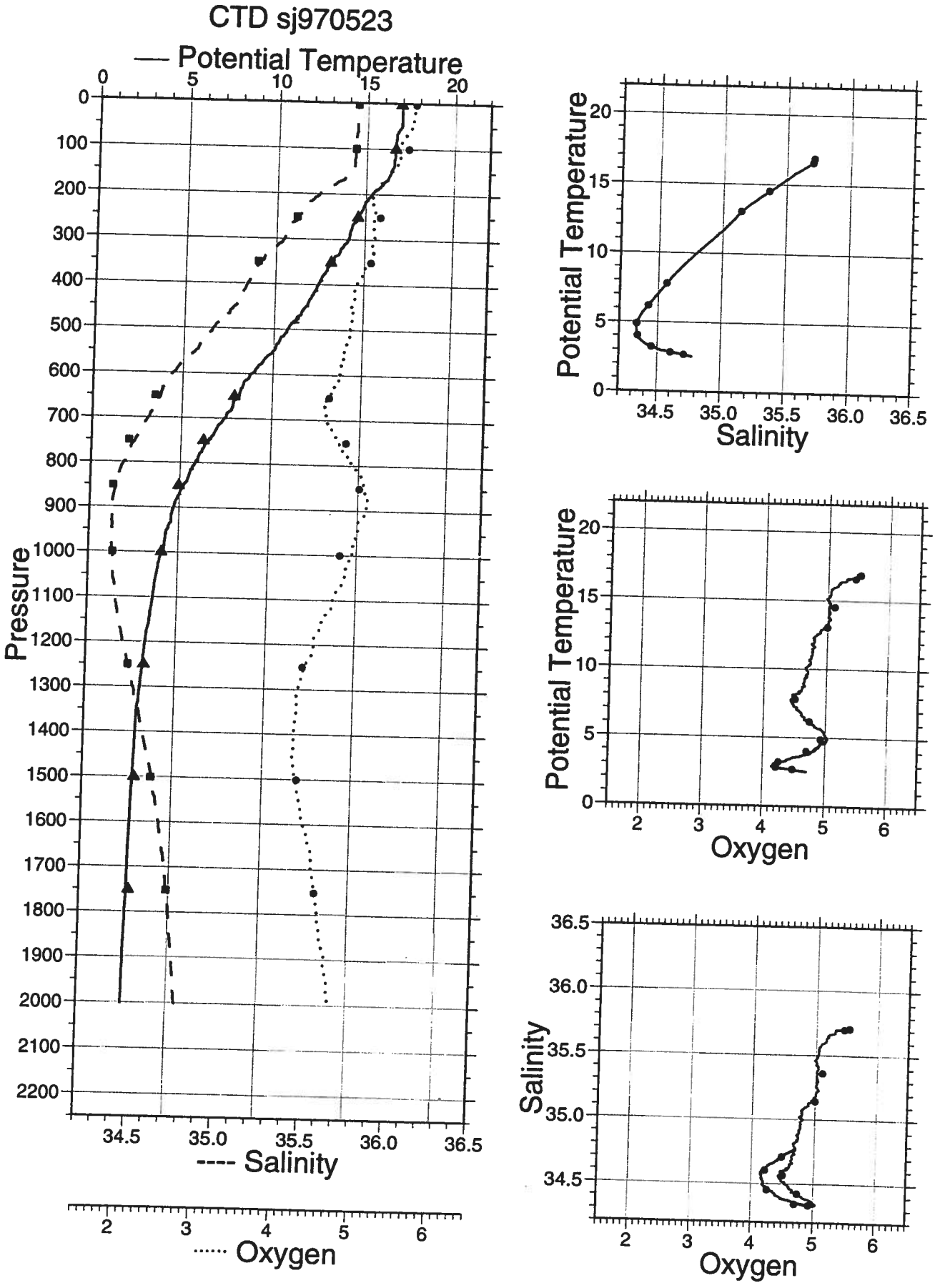
# station 23

**lat. 31 27.90 S**
**lon. 3 43.02 W**

**97/09/14**
**17:56:18**

| PR | TE | PT | SA | OX | S0 | HZ |
|---|---|---|---|---|---|---|
| 0 | 16.949 | 16.949 | 35.711 | 5.513 | 26.073 | 0.000 |
| 10 | 16.964 | 16.962 | 35.71 | 5.507 | 26.069 | 0.019 |
| 20 | 16.969 | 16.965 | 35.71 | 5.517 | 26.069 | 0.039 |
| 30 | 16.972 | 16.967 | 35.71 | 5.492 | 26.068 | 0.058 |
| 40 | 16.973 | 16.966 | 35.71 | 5.506 | 26.068 | 0.078 |
| 50 | 16.958 | 16.95 | 35.71 | 5.477 | 26.072 | 0.097 |
| 60 | 16.792 | 16.782 | 35.712 | 5.458 | 26.114 | 0.116 |
| 70 | 16.702 | 16.691 | 35.704 | 5.414 | 26.129 | 0.135 |
| 80 | 16.681 | 16.668 | 35.702 | 5.397 | 26.133 | 0.154 |
| 90 | 16.659 | 16.644 | 35.702 | 5.352 | 26.139 | 0.173 |
| 100 | 16.652 | 16.635 | 35.701 | 5.315 | 26.14 | 0.192 |
| 110 | 16.642 | 16.624 | 35.701 | 5.304 | 26.143 | 0.211 |
| 120 | 16.627 | 16.607 | 35.7 | 5.34 | 26.146 | 0.230 |
| 130 | 16.604 | 16.583 | 35.698 | 5.316 | 26.15 | 0.249 |
| 140 | 16.573 | 16.55 | 35.694 | 5.303 | 26.155 | 0.268 |
| 150 | 16.432 | 16.408 | 35.666 | 5.222 | 26.166 | 0.287 |
| 160 | 16.333 | 16.307 | 35.649 | 5.189 | 26.177 | 0.306 |
| 170 | 16.165 | 16.137 | 35.621 | 5.164 | 26.195 | 0.325 |
| 180 | 15.92 | 15.891 | 35.576 | 5.071 | 26.217 | 0.344 |
| 190 | 15.683 | 15.653 | 35.539 | 5.043 | 26.242 | 0.362 |
| 200 | 15.38 | 15.349 | 35.493 | 5.02 | 26.275 | 0.380 |
| 210 | 15.173 | 15.141 | 35.461 | 4.983 | 26.297 | 0.398 |
| 220 | 14.999 | 14.966 | 35.436 | 5.017 | 26.317 | 0.416 |
| 230 | 14.896 | 14.861 | 35.421 | 5.023 | 26.328 | 0.433 |
| 240 | 14.783 | 14.747 | 35.403 | 5.039 | 26.339 | 0.451 |
| 250 | 14.592 | 14.555 | 35.371 | 5.028 | 26.356 | 0.468 |
| 260 | 14.533 | 14.494 | 35.359 | 5.03 | 26.36 | 0.486 |
| 270 | 14.301 | 14.261 | 35.322 | 5.026 | 26.381 | 0.503 |
| 280 | 14.219 | 14.178 | 35.309 | 5.035 | 26.389 | 0.520 |
| 290 | 14.177 | 14.135 | 35.301 | 5.027 | 26.392 | 0.537 |
| 300 | 14.098 | 14.054 | 35.29 | 5.018 | 26.401 | 0.555 |
| 325 | 13.668 | 13.621 | 35.225 | 5.045 | 26.441 | 0.597 |
| 350 | 13.155 | 13.106 | 35.158 | 4.973 | 26.495 | 0.638 |
| 375 | 12.821 | 12.769 | 35.117 | 4.892 | 26.53 | 0.679 |
| 400 | 12.467 | 12.414 | 35.084 | 4.803 | 26.575 | 0.718 |
| 425 | 12.138 | 12.082 | 35.049 | 4.793 | 26.612 | 0.757 |
| 450 | 11.779 | 11.72 | 35.011 | 4.783 | 26.651 | 0.795 |
| 475 | 11.373 | 11.312 | 34.955 | 4.766 | 26.684 | 0.832 |
| 500 | 10.805 | 10.743 | 34.89 | 4.748 | 26.737 | 0.868 |
| 550 | 9.995 | 9.931 | 34.792 | 4.679 | 26.802 | 0.937 |
| 600 | 8.859 | 8.793 | 34.665 | 4.652 | 26.889 | 1.003 |
| 650 | 8.176 | 8.108 | 34.597 | 4.473 | 26.941 | 1.066 |
| 700 | 7.458 | 7.388 | 34.531 | 4.485 | 26.995 | 1.126 |
| 750 | 6.614 | 6.544 | 34.458 | 4.629 | 27.054 | 1.183 |
| 800 | 5.909 | 5.839 | 34.396 | 4.827 | 27.096 | 1.238 |
| 850 | 5.295 | 5.223 | 34.353 | 4.992 | 27.136 | 1.290 |
| 900 | 4.761 | 4.689 | 34.333 | 4.99 | 27.182 | 1.340 |
| 950 | 4.41 | 4.336 | 34.339 | 4.9 | 27.225 | 1.388 |
| 1000 | 4.222 | 4.145 | 34.341 | 4.824 | 27.247 | 1.434 |
| 1100 | 3.769 | 3.687 | 34.368 | 4.613 | 27.315 | 1.522 |
| 1200 | 3.422 | 3.335 | 34.419 | 4.392 | 27.39 | 1.603 |
| 1300 | 3.212 | 3.118 | 34.485 | 4.199 | 27.463 | 1.677 |
| 1400 | 3.034 | 2.934 | 34.546 | 4.166 | 27.529 | 1.745 |
| 1500 | 2.957 | 2.85 | 34.606 | 4.195 | 27.584 | 1.808 |
| 1600 | 2.871 | 2.756 | 34.657 | 4.306 | 27.633 | 1.866 |
| 1700 | 2.829 | 2.706 | 34.695 | 4.433 | 27.668 | 1.920 |
| 1800 | 2.776 | 2.645 | 34.724 | 4.527 | 27.697 | 1.973 |
| 1900 | 2.715 | 2.576 | 34.747 | 4.621 | 27.721 | 2.023 |
| 2000 | 2.681 | 2.533 | 34.773 | 4.706 | 27.746 | 2.071 |

| PR | TE | PT | SA | OX | RN |
|---|---|---|---|---|---|
| 3.1 | 16.923 | 16.923 | 35.712 | 5.534 | 16 |
| 100.2 | 16.634 | 16.617 | 35.703 | 5.449 | 14 |
| 250.8 | 14.566 | 14.528 | 35.362 | 5.108 | 11 |
| 350.4 | 13.102 | 13.054 | 35.143 | 4.996 | 10 |
| 650.8 | 7.871 | 7.804 | 34.566 | 4.504 | 8 |
| 750.0 | 6.254 | 6.186 | 34.423 | 4.739 | 7 |
| 851.0 | 4.952 | 4.882 | 34.336 | 4.925 | 6 |
| 999.3 | 4.093 | 4.017 | 34.344 | 4.699 | 5 |
| 1250.0 | 3.299 | 3.209 | 34.453 | 4.255 | 4 |
| 1501.0 | 2.944 | 2.836 | 34.604 | 4.215 | 3 |
| 1751.1 | 2.804 | 2.677 | 34.711 | 4.484 | 2 |


CTD sj970523
— Potential Temperature
Pressure
---- Salinity
..... Oxygen
Potential Temperature
Salinity
Potential Temperature
Oxygen
Salinity
Oxygen

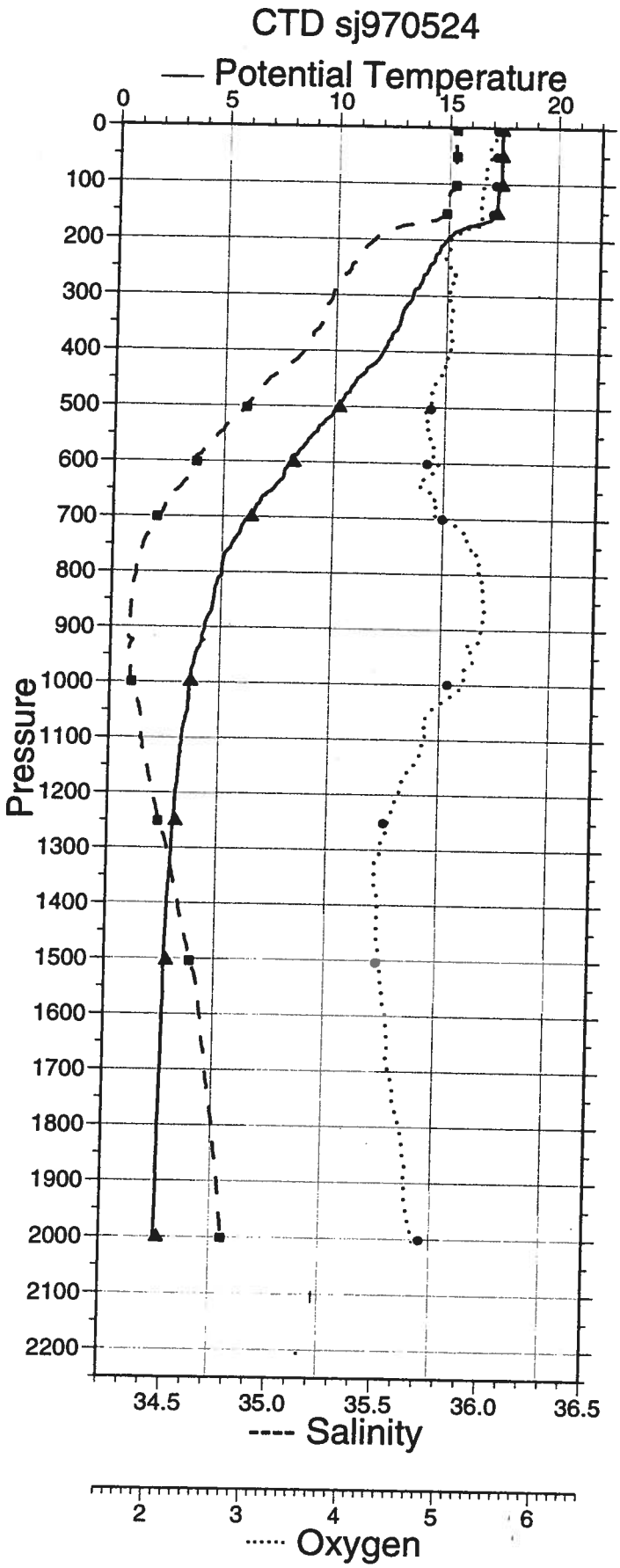
# station 24

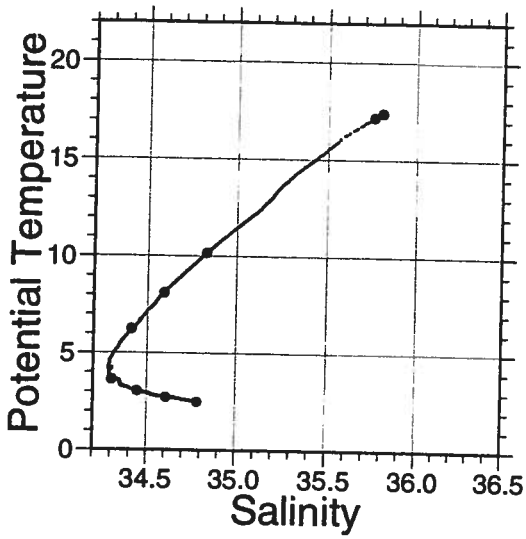
**lat. 32 3.00 S**
**lon. 4 59.93 W**

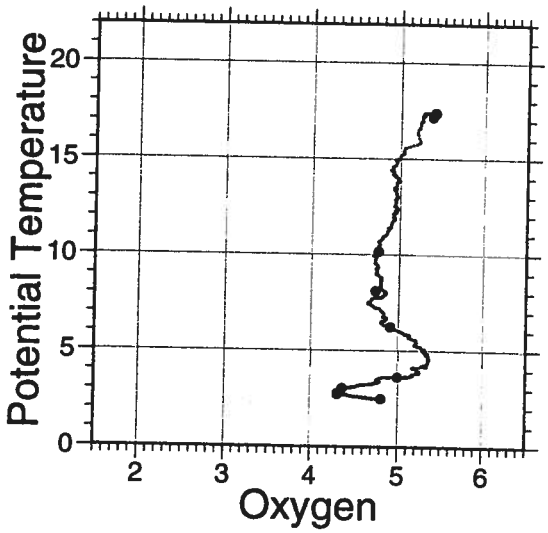
**97/09/15**
**02:13:54**

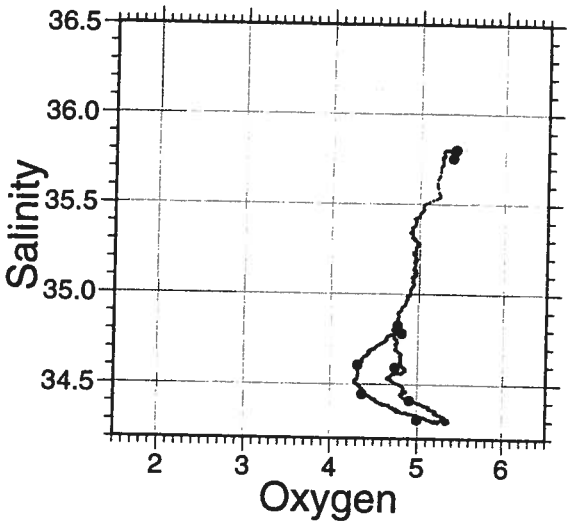
| PR | TE | PT | SA | OX | S0 | HZ |
|---|---|---|---|---|---|---|
| 0 | 17.406 | 17.406 | 35.798 | 5.385 | 26.03 | 0.000 |
| 10 | 17.407 | 17.405 | 35.797 | 5.383 | 26.03 | 0.020 |
| 20 | 17.408 | 17.405 | 35.797 | 5.386 | 26.03 | 0.039 |
| 30 | 17.41 | 17.405 | 35.798 | 5.366 | 26.03 | 0.059 |
| 40 | 17.41 | 17.404 | 35.799 | 5.341 | 26.032 | 0.079 |
| 50 | 17.411 | 17.402 | 35.799 | 5.352 | 26.032 | 0.099 |
| 60 | 17.412 | 17.402 | 35.799 | 5.325 | 26.032 | 0.119 |
| 70 | 17.412 | 17.4 | 35.8 | 5.314 | 26.033 | 0.139 |
| 80 | 17.418 | 17.404 | 35.8 | 5.292 | 26.032 | 0.159 |
| 90 | 17.42 | 17.405 | 35.8 | 5.298 | 26.032 | 0.179 |
| 100 | 17.394 | 17.377 | 35.8 | 5.279 | 26.039 | 0.199 |
| 110 | 17.344 | 17.325 | 35.791 | 5.262 | 26.044 | 0.218 |
| 120 | 17.268 | 17.248 | 35.768 | 5.269 | 26.045 | 0.238 |
| 130 | 17.258 | 17.236 | 35.765 | 5.269 | 26.046 | 0.258 |
| 140 | 17.247 | 17.223 | 35.762 | 5.245 | 26.047 | 0.278 |
| 150 | 17.221 | 17.196 | 35.757 | 5.252 | 26.049 | 0.298 |
| 160 | 17.064 | 17.037 | 35.732 | 5.257 | 26.068 | 0.318 |
| 170 | 16.564 | 16.537 | 35.641 | 5.202 | 26.117 | 0.338 |
| 180 | 15.68 | 15.652 | 35.514 | 5.102 | 26.223 | 0.357 |
| 190 | 15.236 | 15.207 | 35.455 | 5.007 | 26.278 | 0.375 |
| 200 | 14.984 | 14.954 | 35.421 | 4.939 | 26.308 | 0.393 |
| 210 | 14.752 | 14.72 | 35.389 | 4.95 | 26.334 | 0.411 |
| 220 | 14.649 | 14.616 | 35.372 | 4.913 | 26.344 | 0.428 |
| 230 | 14.46 | 14.426 | 35.346 | 4.892 | 26.365 | 0.445 |
| 240 | 14.383 | 14.348 | 35.335 | 4.92 | 26.373 | 0.463 |
| 250 | 14.182 | 14.146 | 35.311 | 4.945 | 26.397 | 0.480 |
| 260 | 14.081 | 14.043 | 35.298 | 4.964 | 26.409 | 0.497 |
| 270 | 13.921 | 13.882 | 35.278 | 4.984 | 26.428 | 0.513 |
| 280 | 13.788 | 13.748 | 35.262 | 4.954 | 26.443 | 0.530 |
| 290 | 13.548 | 13.507 | 35.234 | 4.931 | 26.472 | 0.547 |
| 300 | 13.478 | 13.436 | 35.227 | 4.942 | 26.481 | 0.563 |
| 325 | 13.088 | 13.043 | 35.197 | 4.969 | 26.538 | 0.603 |
| 350 | 12.921 | 12.872 | 35.178 | 4.943 | 26.557 | 0.642 |
| 375 | 12.563 | 12.512 | 35.139 | 4.955 | 26.598 | 0.681 |
| 400 | 12.202 | 12.149 | 35.093 | 4.919 | 26.633 | 0.719 |
| 425 | 11.71 | 11.655 | 35.026 | 4.902 | 26.675 | 0.756 |
| 450 | 11.04 | 10.984 | 34.934 | 4.824 | 26.728 | 0.793 |
| 475 | 10.605 | 10.548 | 34.879 | 4.776 | 26.763 | 0.828 |
| 500 | 10.137 | 10.078 | 34.818 | 4.728 | 26.797 | 0.862 |
| 550 | 9.116 | 9.055 | 34.698 | 4.736 | 26.873 | 0.928 |
| 600 | 8.117 | 8.055 | 34.584 | 4.843 | 26.939 | 0.990 |
| 650 | 7.296 | 7.232 | 34.507 | 4.731 | 26.998 | 1.050 |
| 700 | 6.277 | 6.214 | 34.414 | 4.919 | 27.062 | 1.106 |
| 750 | 5.505 | 5.441 | 34.345 | 5.212 | 27.104 | 1.160 |
| 800 | 5.075 | 5.01 | 34.315 | 5.295 | 27.131 | 1.211 |
| 850 | 4.742 | 4.674 | 34.296 | 5.348 | 27.154 | 1.262 |
| 900 | 4.365 | 4.296 | 34.287 | 5.333 | 27.188 | 1.311 |
| 950 | 3.962 | 3.891 | 34.291 | 5.246 | 27.233 | 1.358 |
| 1000 | 3.749 | 3.676 | 34.301 | 5.141 | 27.263 | 1.403 |
| 1100 | 3.395 | 3.317 | 34.352 | 4.754 | 27.338 | 1.488 |
| 1200 | 3.199 | 3.114 | 34.417 | 4.497 | 27.409 | 1.566 |
| 1300 | 3.056 | 2.964 | 34.488 | 4.322 | 27.48 | 1.638 |
| 1400 | 2.909 | 2.81 | 34.549 | 4.307 | 27.542 | 1.704 |
| 1500 | 2.843 | 2.736 | 34.605 | 4.331 | 27.594 | 1.765 |
| 1600 | 2.799 | 2.685 | 34.659 | 4.412 | 27.641 | 1.822 |
| 1700 | 2.773 | 2.651 | 34.693 | 4.456 | 27.671 | 1.876 |
| 1800 | 2.709 | 2.579 | 34.727 | 4.579 | 27.705 | 1.927 |
| 1900 | 2.694 | 2.556 | 34.759 | 4.637 | 27.733 | 1.976 |
| 2000 | 2.644 | 2.497 | 34.783 | 4.737 | 27.757 | 2.024 |
| 2005 | 2.642 | 2.495 | 34.783 | 4.732 | 27.757 | 2.026 |

| PR | TE | PT | SA | OX | RN |
|---|---|---|---|---|---|
| 5.0 | 17.407 | 17.406 | 35.803 | 5.406 | 14 |
| 51.7 | 17.422 | 17.414 | 35.802 | 5.402 | 13 |
| 102.6 | 17.422 | 17.405 | 35.801 | 5.397 | 12 |
| 153.4 | 17.215 | 17.189 | 35.757 | 5.370 | 11 |
| 502.1 | 10.219 | 10.159 | 34.827 | 4.761 | 9 |
| 601.4 | 8.178 | 8.115 | 34.593 | 4.734 | 8 |
| 700.7 | 6.316 | 6.252 | 34.411 | 4.902 | 7 |
| 999.0 | 3.712 | 3.639 | 34.304 | 4.992 | 5 |
| 1251.7 | 3.139 | 3.050 | 34.445 | 4.358 | 4 |
| 1504.0 | 2.839 | 2.733 | 34.608 | 4.305 | 3 |
| 2001.2 | 2.643 | 2.496 | 34.782 | 4.806 | 1 |


CTD sj970524
— Potential Temperature
Pressure
---- Salinity
..... Oxygen


Potential Temperature
Salinity


Potential Temperature
Oxygen


Salinity
Oxygen

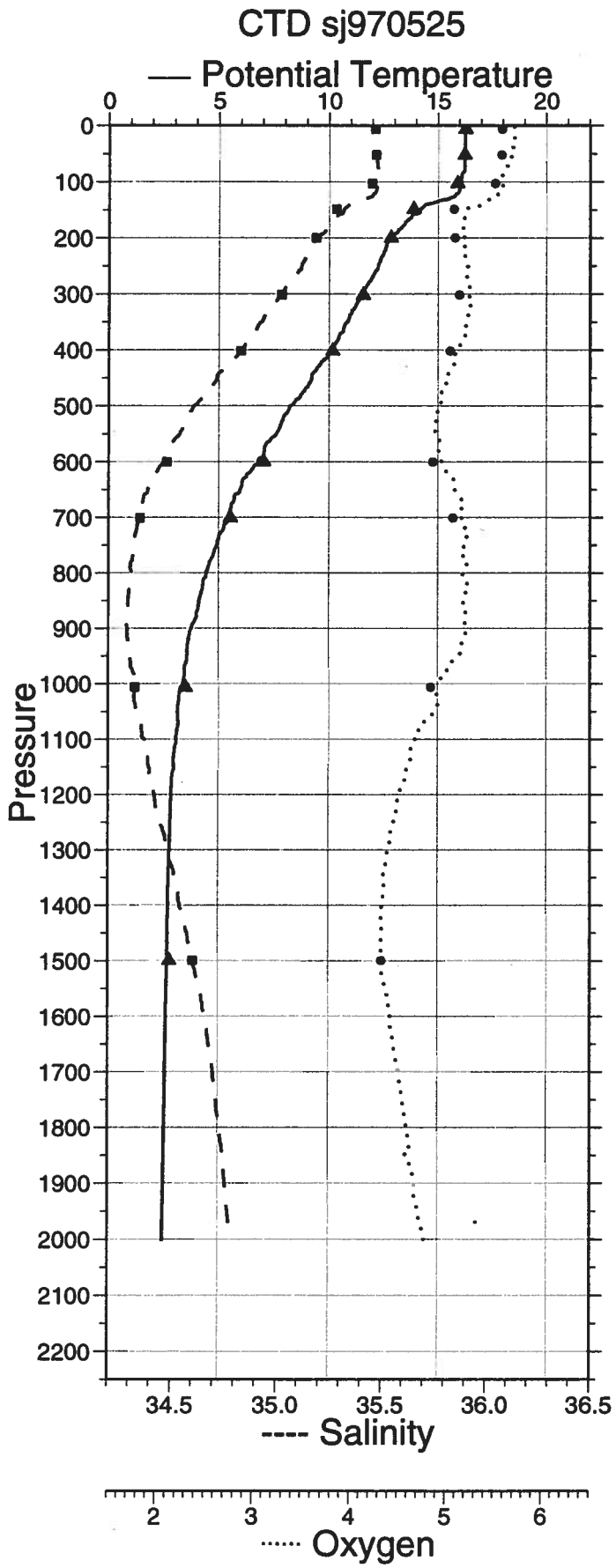
# station 25

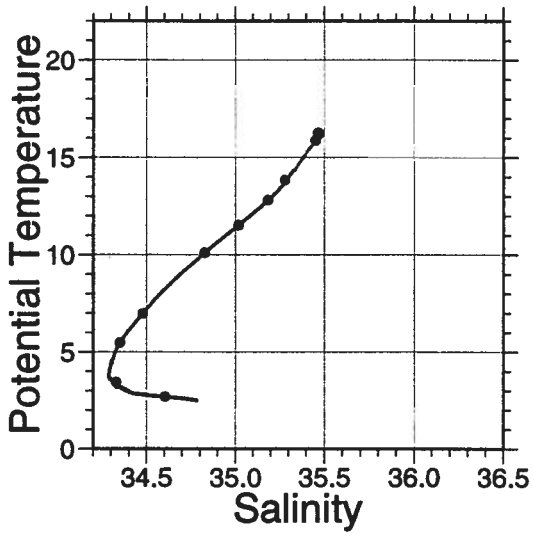
**lat. 32 59.93 S**
**lon. 7 0.00 W**

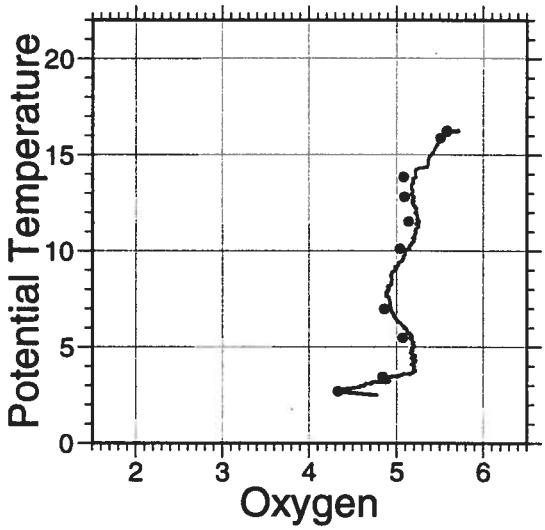
**97/09/15**
**13:45:38**

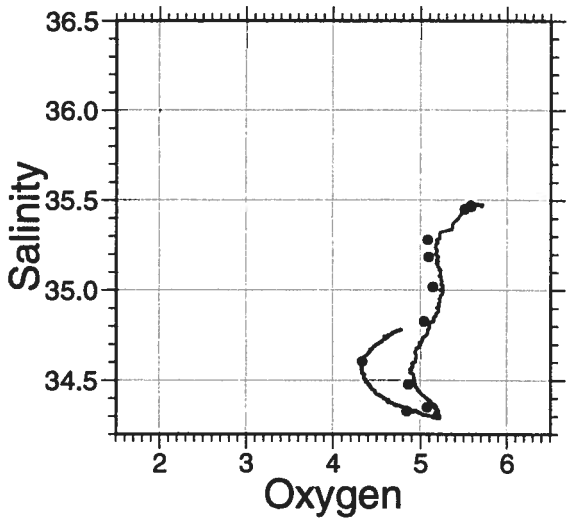
| PR | TE | PT | SA | OX | S0 | HZ |
|---|---|---|---|---|---|---|
| 0 | 16.271 | 16.271 | 35.469 | 5.709 | 26.047 | 0.000 |
| 10 | 16.274 | 16.272 | 35.474 | 5.71 | 26.05 | 0.020 |
| 20 | 16.253 | 16.25 | 35.475 | 5.715 | 26.056 | 0.039 |
| 30 | 16.247 | 16.243 | 35.475 | 5.71 | 26.058 | 0.059 |
| 40 | 16.242 | 16.236 | 35.475 | 5.7 | 26.06 | 0.078 |
| 50 | 16.239 | 16.231 | 35.475 | 5.686 | 26.061 | 0.098 |
| 60 | 16.241 | 16.232 | 35.476 | 5.662 | 26.061 | 0.117 |
| 70 | 16.241 | 16.229 | 35.477 | 5.635 | 26.063 | 0.137 |
| 80 | 16.234 | 16.222 | 35.481 | 5.604 | 26.068 | 0.156 |
| 90 | 16.103 | 16.088 | 35.481 | 5.589 | 26.098 | 0.176 |
| 100 | 16.087 | 16.071 | 35.478 | 5.57 | 26.1 | 0.195 |
| 110 | 16.044 | 16.027 | 35.474 | 5.569 | 26.107 | 0.215 |
| 120 | 15.948 | 15.929 | 35.465 | 5.53 | 26.123 | 0.234 |
| 130 | 15.491 | 15.471 | 35.419 | 5.462 | 26.191 | 0.253 |
| 140 | 14.522 | 14.501 | 35.346 | 5.366 | 26.348 | 0.271 |
| 150 | 14.203 | 14.181 | 35.315 | 5.218 | 26.393 | 0.288 |
| 160 | 13.824 | 13.801 | 35.286 | 5.213 | 26.451 | 0.304 |
| 170 | 13.579 | 13.555 | 35.266 | 5.195 | 26.486 | 0.320 |
| 180 | 13.385 | 13.36 | 35.246 | 5.173 | 26.511 | 0.336 |
| 190 | 13.151 | 13.125 | 35.222 | 5.189 | 26.54 | 0.351 |
| 200 | 12.82 | 12.793 | 35.186 | 5.196 | 26.579 | 0.366 |
| 210 | 12.682 | 12.654 | 35.167 | 5.18 | 26.592 | 0.381 |
| 220 | 12.617 | 12.587 | 35.157 | 5.199 | 26.597 | 0.396 |
| 230 | 12.512 | 12.481 | 35.144 | 5.189 | 26.608 | 0.411 |
| 240 | 12.383 | 12.351 | 35.127 | 5.206 | 26.621 | 0.426 |
| 250 | 12.287 | 12.253 | 35.115 | 5.214 | 26.63 | 0.441 |
| 260 | 12.149 | 12.114 | 35.099 | 5.226 | 26.645 | 0.455 |
| 270 | 12.01 | 11.974 | 35.08 | 5.213 | 26.657 | 0.470 |
| 280 | 11.836 | 11.799 | 35.056 | 5.237 | 26.671 | 0.484 |
| 290 | 11.674 | 11.637 | 35.035 | 5.234 | 26.686 | 0.499 |
| 300 | 11.568 | 11.529 | 35.019 | 5.259 | 26.693 | 0.513 |
| 325 | 11.205 | 11.164 | 34.968 | 5.223 | 26.721 | 0.548 |
| 350 | 10.893 | 10.85 | 34.926 | 5.206 | 26.746 | 0.583 |
| 375 | 10.513 | 10.467 | 34.875 | 5.189 | 26.774 | 0.617 |
| 400 | 10.145 | 10.098 | 34.826 | 5.14 | 26.8 | 0.650 |
| 425 | 9.662 | 9.613 | 34.765 | 5.079 | 26.834 | 0.683 |
| 450 | 9.265 | 9.215 | 34.714 | 5.006 | 26.86 | 0.715 |
| 475 | 8.883 | 8.831 | 34.669 | 4.948 | 26.886 | 0.747 |
| 500 | 8.296 | 8.243 | 34.605 | 4.94 | 26.927 | 0.778 |
| 550 | 7.665 | 7.609 | 34.537 | 4.896 | 26.968 | 0.838 |
| 600 | 6.84 | 6.784 | 34.459 | 4.952 | 27.022 | 0.895 |
| 650 | 6.032 | 5.974 | 34.388 | 5.089 | 27.072 | 0.950 |
| 700 | 5.499 | 5.44 | 34.347 | 5.158 | 27.106 | 1.003 |
| 750 | 4.986 | 4.925 | 34.321 | 5.184 | 27.146 | 1.054 |
| 800 | 4.502 | 4.44 | 34.305 | 5.181 | 27.187 | 1.102 |
| 850 | 4.186 | 4.122 | 34.294 | 5.182 | 27.212 | 1.150 |
| 900 | 3.839 | 3.773 | 34.288 | 5.217 | 27.243 | 1.195 |
| 950 | 3.664 | 3.595 | 34.302 | 5.119 | 27.272 | 1.239 |
| 1000 | 3.49 | 3.418 | 34.334 | 4.854 | 27.314 | 1.282 |
| 1100 | 3.179 | 3.102 | 34.374 | 4.675 | 27.376 | 1.362 |
| 1200 | 2.962 | 2.879 | 34.421 | 4.507 | 27.434 | 1.437 |
| 1300 | 2.897 | 2.807 | 34.484 | 4.398 | 27.491 | 1.507 |
| 1400 | 2.84 | 2.743 | 34.541 | 4.334 | 27.542 | 1.572 |
| 1500 | 2.812 | 2.706 | 34.601 | 4.33 | 27.593 | 1.633 |
| 1600 | 2.763 | 2.65 | 34.66 | 4.419 | 27.645 | 1.690 |
| 1700 | 2.734 | 2.612 | 34.7 | 4.508 | 27.68 | 1.743 |
| 1800 | 2.711 | 2.581 | 34.731 | 4.59 | 27.708 | 1.794 |
| 1900 | 2.681 | 2.543 | 34.758 | 4.667 | 27.733 | 1.843 |
| 2000 | 2.65 | 2.503 | 34.781 | 4.775 | 27.755 | 1.890 |

| PR | TE | PT | SA | OX | RN |
|---|---|---|---|---|---|
| 6.0 | 16.271 | 16.270 | 35.466 | 5.583 | 16 |
| 51.9 | 16.225 | 16.217 | 35.470 | 5.576 | 15 |
| 102.6 | 15.905 | 15.889 | 35.452 | 5.509 | 14 |
| 148.6 | 13.872 | 13.850 | 35.281 | 5.077 | 13 |
| 199.5 | 12.839 | 12.811 | 35.184 | 5.088 | 12 |
| 301.5 | 11.566 | 11.528 | 35.019 | 5.137 | 11 |
| 401.4 | 10.165 | 10.118 | 34.827 | 5.037 | 10 |
| 599.9 | 7.044 | 6.986 | 34.478 | 4.858 | 8 |
| 700.7 | 5.536 | 5.476 | 34.350 | 5.070 | 7 |
| 1006.1 | 3.521 | 3.449 | 34.328 | 4.840 | 5 |
| 1499.4 | 2.808 | 2.702 | 34.604 | 4.329 | 3 |


CTD sj970525
— Potential Temperature
0 5 10 15 20
Pressure
0 100 200 300 400 500 600 700 800 900 1000 1100 1200 1300 1400 1500 1600 1700 1800 1900 2000 2100 2200
34.5 35.0 35.5 36.0 36.5
---- Salinity
2 3 4 5 6
····· Oxygen


Potential Temperature
0 5 10 15 20
34.5 35.0 35.5 36.0 36.5
Salinity


Potential Temperature
0 5 10 15 20
2 3 4 5 6
Oxygen

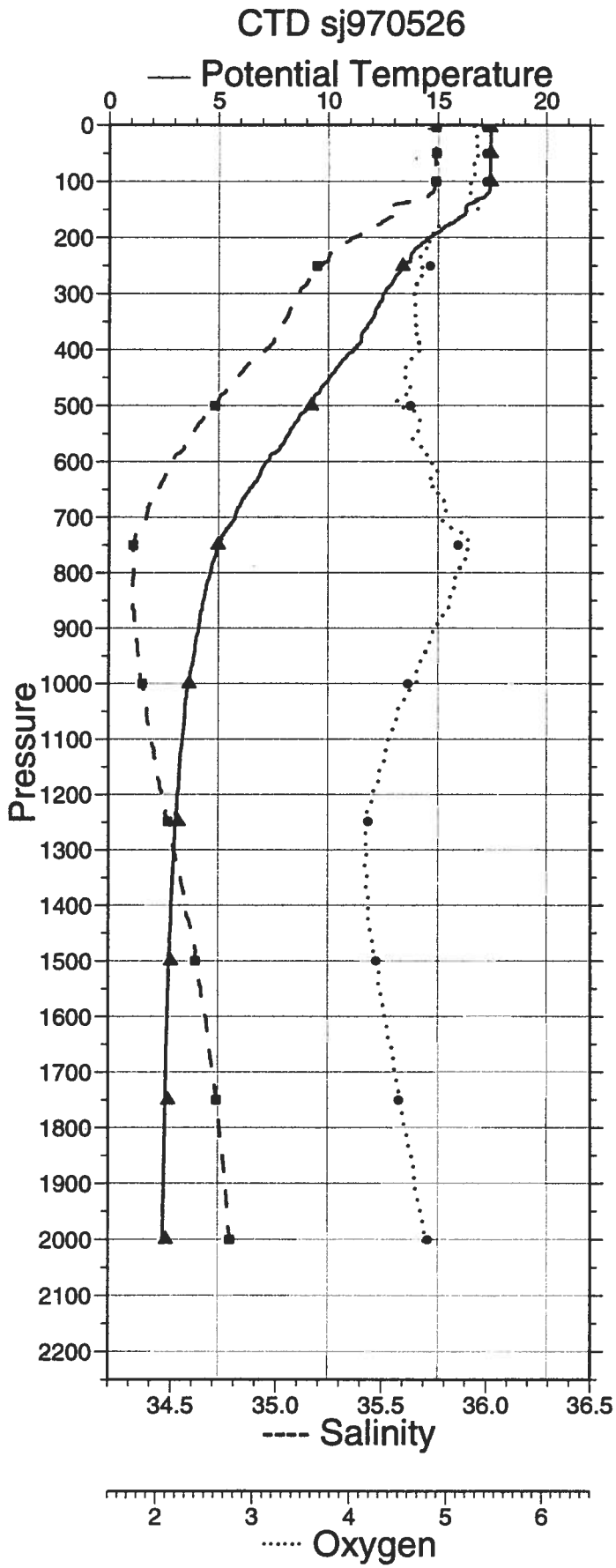

Salinity
34.5 35.0 35.5 36.0 36.5
2 3 4 5 6
Oxygen

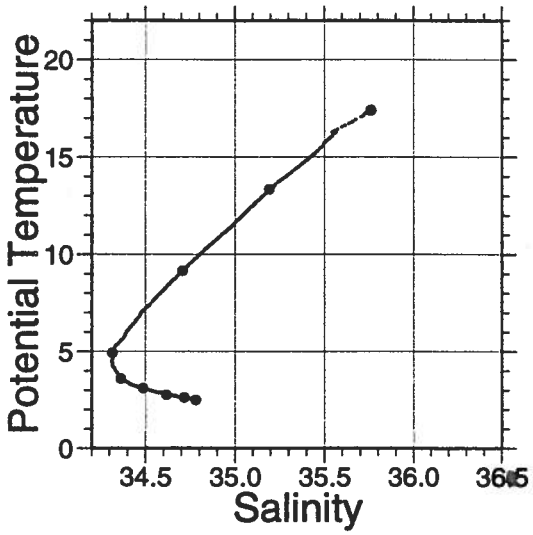
# station 26

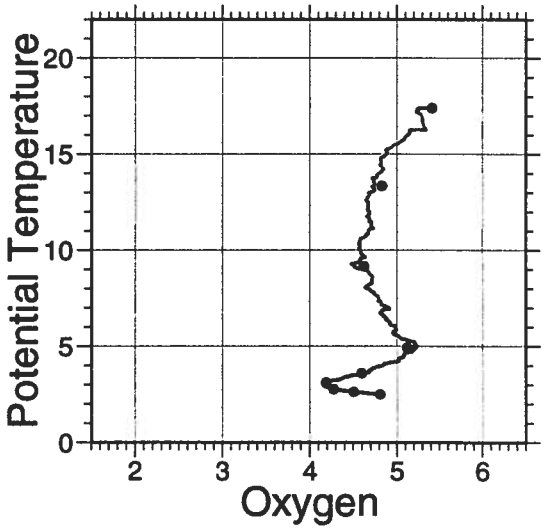
**lat. 32 0.00 S** **97/09/15**
**lon. 7 0.00 W** **20:27:24**

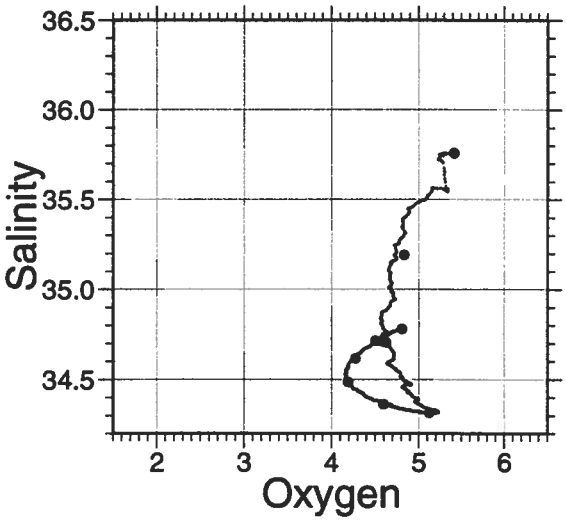
| PR | TE | PT | SA | OX | S0 | HZ |
|---|---|---|---|---|---|---|
| 0 | 17.416 | 17.416 | 35.756 | 5.286 | 25.996 | 0.000 |
| 10 | 17.422 | 17.42 | 35.756 | 5.292 | 25.994 | 0.020 |
| 20 | 17.426 | 17.423 | 35.757 | 5.313 | 25.995 | 0.040 |
| 30 | 17.427 | 17.422 | 35.758 | 5.326 | 25.996 | 0.060 |
| 40 | 17.424 | 17.417 | 35.757 | 5.309 | 25.996 | 0.080 |
| 50 | 17.426 | 17.417 | 35.757 | 5.326 | 25.996 | 0.101 |
| 60 | 17.419 | 17.409 | 35.756 | 5.323 | 25.997 | 0.121 |
| 70 | 17.419 | 17.407 | 35.755 | 5.282 | 25.997 | 0.141 |
| 80 | 17.417 | 17.403 | 35.755 | 5.296 | 25.998 | 0.161 |
| 90 | 17.41 | 17.394 | 35.753 | 5.287 | 25.998 | 0.182 |
| 100 | 17.406 | 17.389 | 35.752 | 5.265 | 25.999 | 0.202 |
| 110 | 17.402 | 17.383 | 35.751 | 5.244 | 26 | 0.222 |
| 120 | 17.357 | 17.337 | 35.743 | 5.251 | 26.005 | 0.243 |
| 130 | 16.958 | 16.936 | 35.675 | 5.296 | 26.049 | 0.263 |
| 140 | 16.459 | 16.436 | 35.575 | 5.318 | 26.09 | 0.283 |
| 150 | 16.296 | 16.272 | 35.559 | 5.288 | 26.116 | 0.302 |
| 160 | 16.202 | 16.177 | 35.552 | 5.155 | 26.133 | 0.321 |
| 170 | 15.836 | 15.809 | 35.509 | 5.09 | 26.184 | 0.340 |
| 180 | 15.319 | 15.292 | 35.458 | 4.916 | 26.261 | 0.359 |
| 190 | 15.084 | 15.055 | 35.428 | 4.891 | 26.291 | 0.377 |
| 200 | 14.628 | 14.599 | 35.367 | 4.821 | 26.344 | 0.394 |
| 210 | 14.278 | 14.247 | 35.321 | 4.844 | 26.384 | 0.412 |
| 220 | 13.996 | 13.964 | 35.28 | 4.786 | 26.412 | 0.428 |
| 230 | 13.8 | 13.767 | 35.251 | 4.749 | 26.431 | 0.445 |
| 240 | 13.775 | 13.741 | 35.245 | 4.729 | 26.432 | 0.462 |
| 250 | 13.486 | 13.451 | 35.21 | 4.748 | 26.465 | 0.478 |
| 260 | 13.294 | 13.257 | 35.185 | 4.725 | 26.485 | 0.494 |
| 270 | 13.089 | 13.051 | 35.161 | 4.721 | 26.508 | 0.510 |
| 280 | 12.961 | 12.923 | 35.145 | 4.687 | 26.521 | 0.526 |
| 290 | 12.717 | 12.677 | 35.116 | 4.658 | 26.548 | 0.542 |
| 300 | 12.558 | 12.518 | 35.101 | 4.661 | 26.568 | 0.557 |
| 325 | 12.26 | 12.217 | 35.067 | 4.671 | 26.6 | 0.596 |
| 350 | 11.981 | 11.935 | 35.034 | 4.682 | 26.628 | 0.633 |
| 375 | 11.552 | 11.504 | 34.988 | 4.685 | 26.674 | 0.670 |
| 400 | 11.204 | 11.153 | 34.947 | 4.733 | 26.707 | 0.706 |
| 425 | 10.584 | 10.532 | 34.865 | 4.581 | 26.754 | 0.741 |
| 450 | 10.096 | 10.043 | 34.807 | 4.574 | 26.794 | 0.775 |
| 475 | 9.65 | 9.596 | 34.755 | 4.593 | 26.829 | 0.809 |
| 500 | 9.219 | 9.163 | 34.706 | 4.512 | 26.862 | 0.841 |
| 550 | 8.236 | 8.179 | 34.602 | 4.672 | 26.935 | 0.904 |
| 600 | 7.266 | 7.207 | 34.498 | 4.822 | 26.995 | 0.963 |
| 650 | 6.47 | 6.41 | 34.43 | 4.876 | 27.049 | 1.019 |
| 700 | 5.816 | 5.755 | 34.38 | 4.959 | 27.094 | 1.073 |
| 750 | 5.049 | 4.988 | 34.319 | 5.228 | 27.137 | 1.125 |
| 800 | 4.716 | 4.652 | 34.318 | 5.094 | 27.174 | 1.174 |
| 850 | 4.399 | 4.333 | 34.316 | 5.028 | 27.207 | 1.222 |
| 900 | 4.185 | 4.117 | 34.33 | 4.874 | 27.241 | 1.268 |
| 950 | 3.974 | 3.903 | 34.343 | 4.757 | 27.274 | 1.313 |
| 1000 | 3.721 | 3.648 | 34.36 | 4.678 | 27.313 | 1.356 |
| 1100 | 3.47 | 3.391 | 34.404 | 4.397 | 27.373 | 1.437 |
| 1200 | 3.248 | 3.163 | 34.456 | 4.239 | 27.436 | 1.513 |
| 1300 | 3.103 | 3.01 | 34.511 | 4.159 | 27.494 | 1.583 |
| 1400 | 2.994 | 2.894 | 34.566 | 4.188 | 27.548 | 1.648 |
| 1500 | 2.857 | 2.751 | 34.618 | 4.293 | 27.603 | 1.709 |
| 1600 | 2.832 | 2.717 | 34.666 | 4.36 | 27.644 | 1.765 |
| 1700 | 2.769 | 2.647 | 34.696 | 4.464 | 27.674 | 1.819 |
| 1800 | 2.734 | 2.603 | 34.731 | 4.568 | 27.706 | 1.870 |
| 1900 | 2.695 | 2.557 | 34.758 | 4.671 | 27.732 | 1.920 |
| 2000 | 2.648 | 2.502 | 34.78 | 4.785 | 27.754 | 1.967 |

| PR | TE | PT | SA | OX | RN |
|---|---|---|---|---|---|
| 3.9 | 17.401 | 17.401 | 35.760 | 5.410 | 12 |
| 49.9 | 17.421 | 17.413 | 35.760 | 5.415 | 11 |
| 100.1 | 17.424 | 17.407 | 35.757 | 5.415 | 10 |
| 250.4 | 13.379 | 13.344 | 35.192 | 4.828 | 8 |
| 499.9 | 9.228 | 9.172 | 34.706 | 4.622 | 7 |
| 749.8 | 4.989 | 4.928 | 34.316 | 5.122 | 6 |
| 999.9 | 3.676 | 3.603 | 34.362 | 4.598 | 5 |
| 1248.6 | 3.198 | 3.109 | 34.486 | 4.188 | 4 |
| 1499.8 | 2.871 | 2.765 | 34.616 | 4.273 | 3 |
| 1749.9 | 2.758 | 2.631 | 34.716 | 4.504 | 2 |
| 2000.1 | 2.649 | 2.502 | 34.780 | 4.808 | 1 |


CTD sj970526
— Potential Temperature
0 5 10 15 20
Pressure
0 100 200 300 400 500 600 700 800 900 1000 1100 1200 1300 1400 1500 1600 1700 1800 1900 2000 2100 2200
34.5 35.0 35.5 36.0 36.5
---- Salinity
2 3 4 5 6
····· Oxygen


Potential Temperature
0 5 10 15 20
34.5 35.0 35.5 36.0
Salinity


Potential Temperature
0 5 10 15 20
2 3 4 5 6
Oxygen

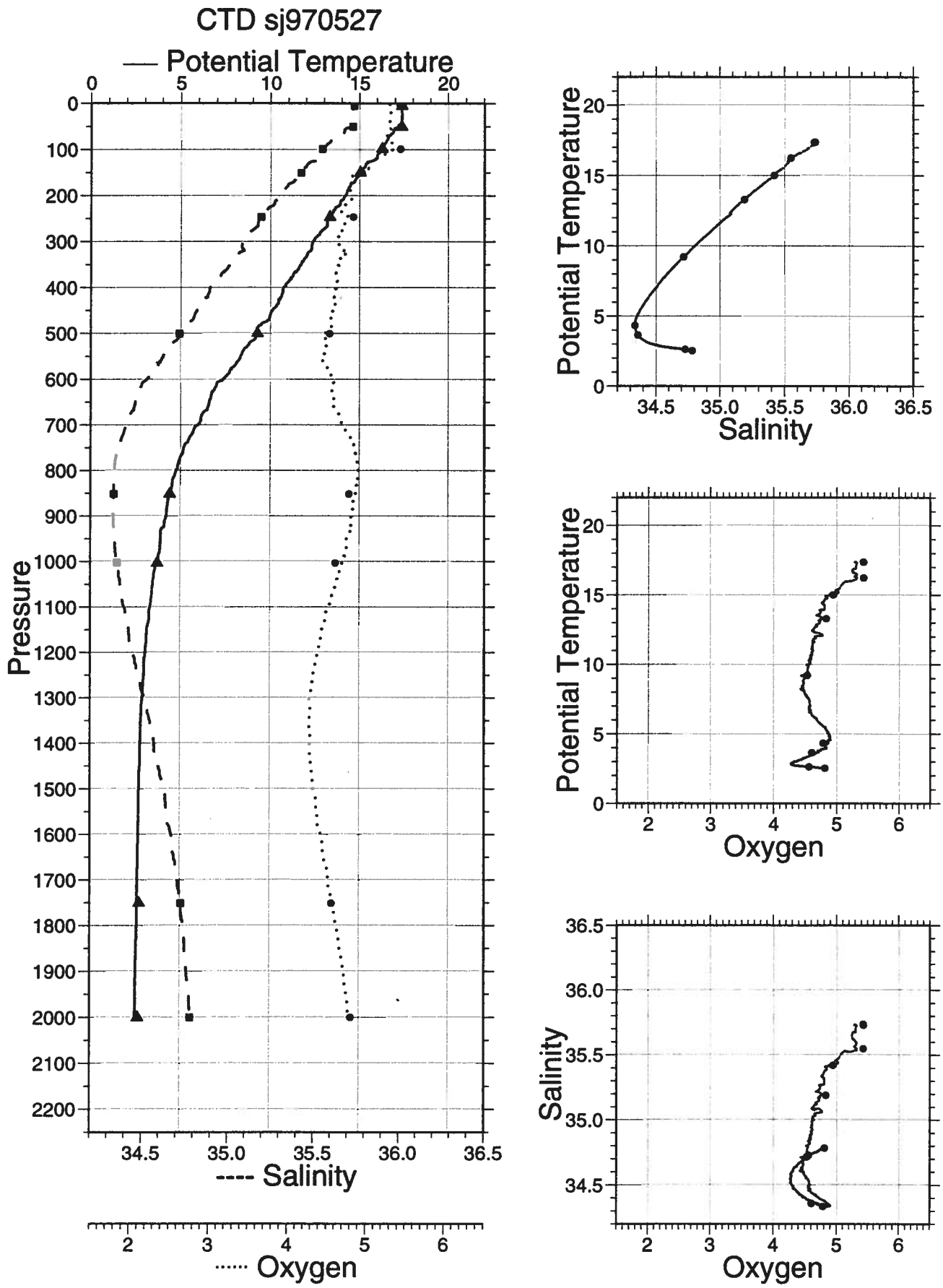

Salinity
34.5 35.0 35.5 36.0 36.5
2 3 4 5 6
Oxygen

# station 27

**lat. 31 0.00 S** **97/09/16**
**lon. 6 59.93 W** **03:25:17**

| PR | TE | PT | SA | OX | S0 | HZ |
|---|---|---|---|---|---|---|
| 0 | 17.379 | 17.379 | 35.732 | 5.297 | 25.986 | 0.000 |
| 10 | 17.378 | 17.376 | 35.73 | 5.302 | 25.985 | 0.020 |
| 20 | 17.38 | 17.377 | 35.731 | 5.307 | 25.986 | 0.040 |
| 30 | 17.385 | 17.38 | 35.73 | 5.313 | 25.984 | 0.060 |
| 40 | 17.385 | 17.378 | 35.731 | 5.293 | 25.985 | 0.081 |
| 50 | 17.316 | 17.307 | 35.723 | 5.326 | 25.996 | 0.101 |
| 60 | 16.917 | 16.907 | 35.677 | 5.303 | 26.057 | 0.121 |
| 70 | 16.634 | 16.623 | 35.626 | 5.26 | 26.085 | 0.140 |
| 80 | 16.555 | 16.542 | 35.603 | 5.308 | 26.087 | 0.160 |
| 90 | 16.385 | 16.371 | 35.573 | 5.307 | 26.104 | 0.179 |
| 100 | 16.256 | 16.24 | 35.545 | 5.325 | 26.112 | 0.198 |
| 110 | 16.04 | 16.022 | 35.526 | 5.238 | 26.148 | 0.218 |
| 120 | 15.958 | 15.939 | 35.531 | 5.124 | 26.171 | 0.236 |
| 130 | 15.414 | 15.394 | 35.467 | 5.004 | 26.245 | 0.255 |
| 140 | 15.255 | 15.234 | 35.442 | 5.022 | 26.262 | 0.273 |
| 150 | 15.069 | 15.046 | 35.422 | 4.88 | 26.288 | 0.291 |
| 160 | 14.902 | 14.878 | 35.405 | 4.828 | 26.312 | 0.308 |
| 170 | 14.754 | 14.729 | 35.381 | 4.815 | 26.326 | 0.326 |
| 180 | 14.503 | 14.476 | 35.343 | 4.766 | 26.351 | 0.343 |
| 190 | 14.336 | 14.308 | 35.325 | 4.791 | 26.374 | 0.360 |
| 200 | 14.233 | 14.204 | 35.309 | 4.802 | 26.384 | 0.377 |
| 210 | 14.021 | 13.99 | 35.28 | 4.805 | 26.406 | 0.394 |
| 220 | 13.921 | 13.889 | 35.264 | 4.729 | 26.415 | 0.411 |
| 230 | 13.632 | 13.599 | 35.226 | 4.706 | 26.446 | 0.427 |
| 240 | 13.437 | 13.403 | 35.205 | 4.755 | 26.47 | 0.444 |
| 250 | 13.257 | 13.222 | 35.181 | 4.733 | 26.489 | 0.460 |
| 260 | 13.213 | 13.177 | 35.172 | 4.727 | 26.491 | 0.476 |
| 270 | 13.1 | 13.062 | 35.158 | 4.727 | 26.503 | 0.492 |
| 280 | 12.816 | 12.778 | 35.124 | 4.682 | 26.534 | 0.508 |
| 290 | 12.612 | 12.572 | 35.102 | 4.638 | 26.558 | 0.523 |
| 300 | 12.436 | 12.396 | 35.084 | 4.625 | 26.578 | 0.539 |
| 325 | 12.122 | 12.079 | 35.06 | 4.763 | 26.621 | 0.576 |
| 350 | 11.762 | 11.717 | 35.009 | 4.624 | 26.65 | 0.614 |
| 375 | 11.291 | 11.244 | 34.954 | 4.617 | 26.696 | 0.650 |
| 400 | 10.775 | 10.726 | 34.893 | 4.602 | 26.742 | 0.685 |
| 425 | 10.568 | 10.516 | 34.867 | 4.596 | 26.759 | 0.720 |
| 450 | 10.145 | 10.091 | 34.817 | 4.577 | 26.794 | 0.754 |
| 475 | 9.777 | 9.722 | 34.774 | 4.54 | 26.823 | 0.787 |
| 500 | 9.28 | 9.224 | 34.715 | 4.48 | 26.859 | 0.820 |
| 550 | 8.376 | 8.318 | 34.62 | 4.469 | 26.928 | 0.883 |
| 600 | 7.404 | 7.345 | 34.527 | 4.572 | 26.998 | 0.942 |
| 650 | 6.648 | 6.588 | 34.46 | 4.581 | 27.05 | 0.999 |
| 700 | 6.049 | 5.987 | 34.413 | 4.688 | 27.091 | 1.053 |
| 750 | 5.244 | 5.182 | 34.361 | 4.847 | 27.148 | 1.104 |
| 800 | 4.82 | 4.756 | 34.342 | 4.895 | 27.181 | 1.153 |
| 850 | 4.471 | 4.405 | 34.337 | 4.864 | 27.216 | 1.201 |
| 900 | 4.296 | 4.227 | 34.336 | 4.818 | 27.234 | 1.247 |
| 950 | 3.974 | 3.903 | 34.344 | 4.745 | 27.274 | 1.292 |
| 1000 | 3.752 | 3.678 | 34.358 | 4.709 | 27.308 | 1.335 |
| 1100 | 3.401 | 3.322 | 34.396 | 4.518 | 27.373 | 1.416 |
| 1200 | 3.153 | 3.069 | 34.447 | 4.383 | 27.437 | 1.492 |
| 1300 | 3 | 2.908 | 34.513 | 4.286 | 27.505 | 1.561 |
| 1400 | 2.897 | 2.799 | 34.574 | 4.284 | 27.563 | 1.625 |
| 1500 | 2.834 | 2.728 | 34.625 | 4.325 | 27.61 | 1.684 |
| 1600 | 2.805 | 2.691 | 34.671 | 4.422 | 27.65 | 1.740 |
| 1700 | 2.775 | 2.653 | 34.709 | 4.517 | 27.684 | 1.793 |
| 1800 | 2.749 | 2.619 | 34.743 | 4.622 | 27.714 | 1.843 |
| 1900 | 2.699 | 2.56 | 34.762 | 4.719 | 27.734 | 1.892 |
| 2000 | 2.672 | 2.525 | 34.784 | 4.791 | 27.755 | 1.939 |

| PR | TE | PT | SA | OX | RN |
|---|---|---|---|---|---|
| 4.9 | 17.381 | 17.380 | 35.737 | 5.428 | 12 |
| 50.4 | 17.368 | 17.360 | 35.729 | 5.433 | 11 |
| 98.4 | 16.262 | 16.247 | 35.549 | 5.431 | 10 |
| 150.4 | 15.037 | 15.014 | 35.422 | 4.940 | 9 |
| 246.6 | 13.329 | 13.295 | 35.191 | 4.831 | 8 |
| 500.1 | 9.279 | 9.223 | 34.715 | 4.528 | 7 |
| 851.4 | 4.406 | 4.340 | 34.336 | 4.781 | 6 |
| 1003.5 | 3.732 | 3.658 | 34.358 | 4.605 | 5 |
| 1750.9 | 2.751 | 2.625 | 34.729 | 4.560 | 2 |
| 2000.4 | 2.673 | 2.526 | 34.784 | 4.808 | 1 |

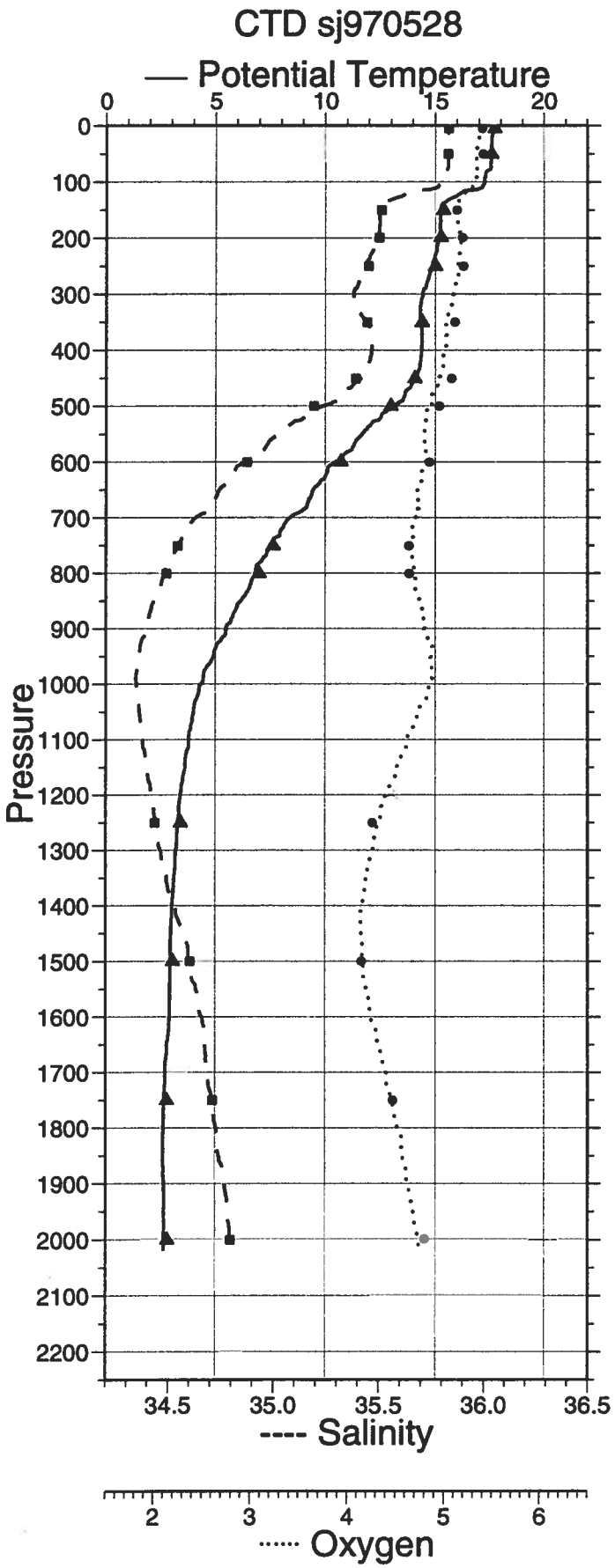

CTD sj970527
— Potential Temperature
Pressure
---- Salinity
..... Oxygen
Potential Temperature
Salinity
Potential Temperature
Oxygen
Salinity
Oxygen

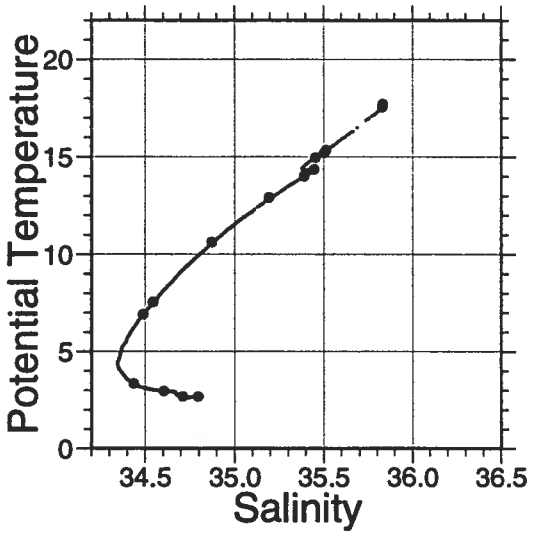
# station 28

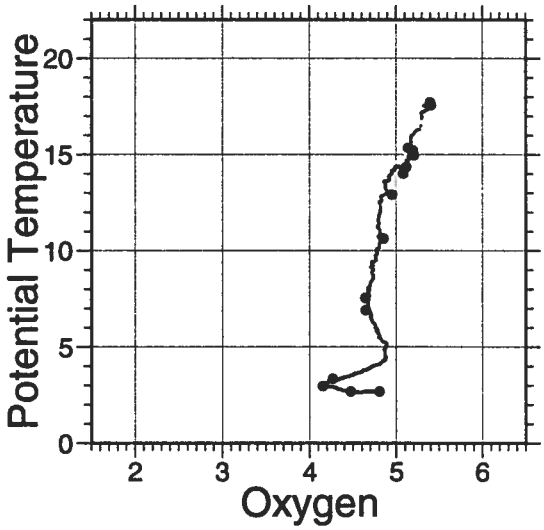
**lat. 29 46.92 S** **97/09/17**
**lon. 6 5.03 W** **18:10:41**

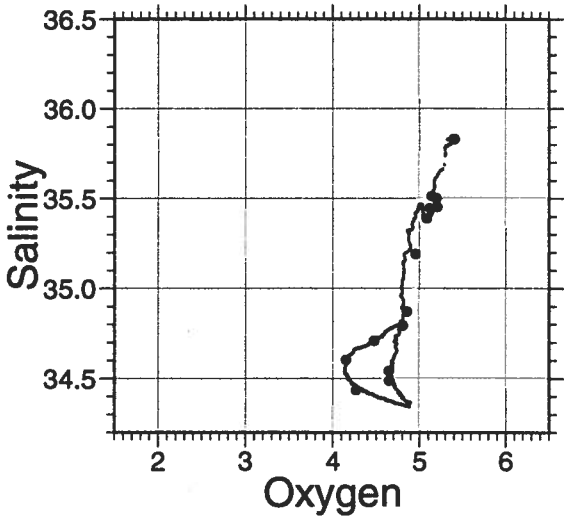
| PR | TE | PT | SA | OX | S0 | HZ |
|---|---|---|---|---|---|---|
| 0 | 17.723 | 17.723 | 35.83 | 5.371 | 25.977 | 0.000 |
| 10 | 17.725 | 17.723 | 35.83 | 5.375 | 25.977 | 0.020 |
| 20 | 17.599 | 17.596 | 35.831 | 5.366 | 26.009 | 0.040 |
| 30 | 17.587 | 17.581 | 35.831 | 5.348 | 26.013 | 0.060 |
| 40 | 17.578 | 17.572 | 35.831 | 5.341 | 26.015 | 0.080 |
| 50 | 17.57 | 17.562 | 35.831 | 5.338 | 26.018 | 0.100 |
| 60 | 17.564 | 17.554 | 35.83 | 5.34 | 26.019 | 0.120 |
| 70 | 17.559 | 17.547 | 35.83 | 5.326 | 26.02 | 0.140 |
| 80 | 17.419 | 17.405 | 35.813 | 5.363 | 26.042 | 0.160 |
| 90 | 17.304 | 17.289 | 35.8 | 5.332 | 26.06 | 0.180 |
| 100 | 17.258 | 17.241 | 35.794 | 5.306 | 26.067 | 0.200 |
| 110 | 17.151 | 17.133 | 35.777 | 5.295 | 26.08 | 0.219 |
| 120 | 16.188 | 16.169 | 35.64 | 5.217 | 26.202 | 0.238 |
| 130 | 15.712 | 15.692 | 35.57 | 5.172 | 26.258 | 0.257 |
| 140 | 15.331 | 15.309 | 35.514 | 5.14 | 26.3 | 0.274 |
| 150 | 15.274 | 15.251 | 35.508 | 5.146 | 26.309 | 0.292 |
| 160 | 15.263 | 15.239 | 35.505 | 5.148 | 26.309 | 0.309 |
| 170 | 15.261 | 15.235 | 35.506 | 5.146 | 26.311 | 0.327 |
| 180 | 15.255 | 15.227 | 35.505 | 5.162 | 26.312 | 0.345 |
| 190 | 15.251 | 15.221 | 35.503 | 5.163 | 26.312 | 0.362 |
| 200 | 15.208 | 15.177 | 35.494 | 5.165 | 26.315 | 0.380 |
| 210 | 15.151 | 15.119 | 35.482 | 5.172 | 26.318 | 0.398 |
| 220 | 15.113 | 15.079 | 35.475 | 5.171 | 26.322 | 0.415 |
| 230 | 15.036 | 15.001 | 35.461 | 5.159 | 26.328 | 0.433 |
| 240 | 14.959 | 14.923 | 35.447 | 5.143 | 26.335 | 0.450 |
| 250 | 14.911 | 14.873 | 35.439 | 5.15 | 26.339 | 0.468 |
| 260 | 14.818 | 14.779 | 35.424 | 5.152 | 26.348 | 0.485 |
| 270 | 14.753 | 14.712 | 35.414 | 5.121 | 26.355 | 0.503 |
| 280 | 14.668 | 14.626 | 35.403 | 5.126 | 26.365 | 0.520 |
| 290 | 14.576 | 14.533 | 35.39 | 5.115 | 26.376 | 0.538 |
| 300 | 14.488 | 14.444 | 35.382 | 5.098 | 26.389 | 0.555 |
| 325 | 14.38 | 14.331 | 35.392 | 5.061 | 26.42 | 0.598 |
| 350 | 14.431 | 14.379 | 35.446 | 5.029 | 26.452 | 0.640 |
| 375 | 14.463 | 14.407 | 35.467 | 5.019 | 26.462 | 0.682 |
| 400 | 14.446 | 14.386 | 35.466 | 5.006 | 26.466 | 0.724 |
| 425 | 14.383 | 14.32 | 35.453 | 4.991 | 26.47 | 0.766 |
| 450 | 14.199 | 14.132 | 35.416 | 4.947 | 26.481 | 0.808 |
| 475 | 13.71 | 13.641 | 35.328 | 4.909 | 26.516 | 0.850 |
| 500 | 13.16 | 13.089 | 35.235 | 4.898 | 26.558 | 0.890 |
| 550 | 11.748 | 11.676 | 35.018 | 4.798 | 26.665 | 0.969 |
| 600 | 10.504 | 10.431 | 34.858 | 4.813 | 26.767 | 1.042 |
| 650 | 9.518 | 9.443 | 34.739 | 4.732 | 26.842 | 1.110 |
| 700 | 8.468 | 8.393 | 34.628 | 4.707 | 26.922 | 1.175 |
| 750 | 7.599 | 7.523 | 34.545 | 4.673 | 26.987 | 1.237 |
| 800 | 6.894 | 6.817 | 34.481 | 4.69 | 27.035 | 1.295 |
| 850 | 6.233 | 6.156 | 34.43 | 4.757 | 27.083 | 1.351 |
| 900 | 5.564 | 5.486 | 34.39 | 4.798 | 27.134 | 1.404 |
| 950 | 5.007 | 4.928 | 34.362 | 4.868 | 27.178 | 1.455 |
| 1000 | 4.41 | 4.331 | 34.348 | 4.876 | 27.233 | 1.503 |
| 1100 | 3.889 | 3.806 | 34.377 | 4.615 | 27.31 | 1.592 |
| 1200 | 3.514 | 3.426 | 34.421 | 4.396 | 27.383 | 1.674 |
| 1300 | 3.31 | 3.216 | 34.463 | 4.267 | 27.437 | 1.750 |
| 1400 | 3.149 | 3.048 | 34.533 | 4.143 | 27.508 | 1.821 |
| 1500 | 3.079 | 2.971 | 34.601 | 4.164 | 27.569 | 1.886 |
| 1600 | 3.057 | 2.94 | 34.66 | 4.243 | 27.619 | 1.946 |
| 1700 | 2.859 | 2.735 | 34.687 | 4.404 | 27.659 | 2.002 |
| 1800 | 2.782 | 2.651 | 34.727 | 4.519 | 27.699 | 2.055 |
| 1900 | 2.821 | 2.681 | 34.768 | 4.631 | 27.729 | 2.105 |
| 2000 | 2.826 | 2.677 | 34.795 | 4.73 | 27.751 | 2.153 |
| 2015 | 2.823 | 2.672 | 34.8 | 4.744 | 27.755 | 2.160 |

| PR | TE | PT | SA | OX | RN |
|---|---|---|---|---|---|
| 4.8 | 17.716 | 17.715 | 35.832 | 5.397 | 20 |
| 50.1 | 17.581 | 17.572 | 35.830 | 5.406 | 19 |
| 150.3 | 15.378 | 15.355 | 35.514 | 5.137 | 18 |
| 198.8 | 15.255 | 15.224 | 35.503 | 5.193 | 17 |
| 250.1 | 15.008 | 14.970 | 35.453 | 5.202 | 16 |
| 350.0 | 14.418 | 14.366 | 35.446 | 5.115 | 14 |
| 450.3 | 14.079 | 14.013 | 35.391 | 5.081 | 12 |
| 500.0 | 12.990 | 12.920 | 35.192 | 4.952 | 11 |
| 599.9 | 10.711 | 10.637 | 34.873 | 4.851 | 10 |
| 750.4 | 7.623 | 7.547 | 34.543 | 4.640 | 8 |
| 800.4 | 6.992 | 6.914 | 34.489 | 4.643 | 7 |
| 1250.1 | 3.433 | 3.342 | 34.436 | 4.267 | 5 |
| 1499.9 | 3.078 | 2.969 | 34.604 | 4.150 | 3 |
| 1749.9 | 2.802 | 2.675 | 34.711 | 4.473 | 2 |
| 2000.2 | 2.827 | 2.678 | 34.795 | 4.802 | 1 |


CTD sj970528
— Potential Temperature
Pressure
---- Salinity
····· Oxygen


Potential Temperature
Salinity


Potential Temperature
Oxygen

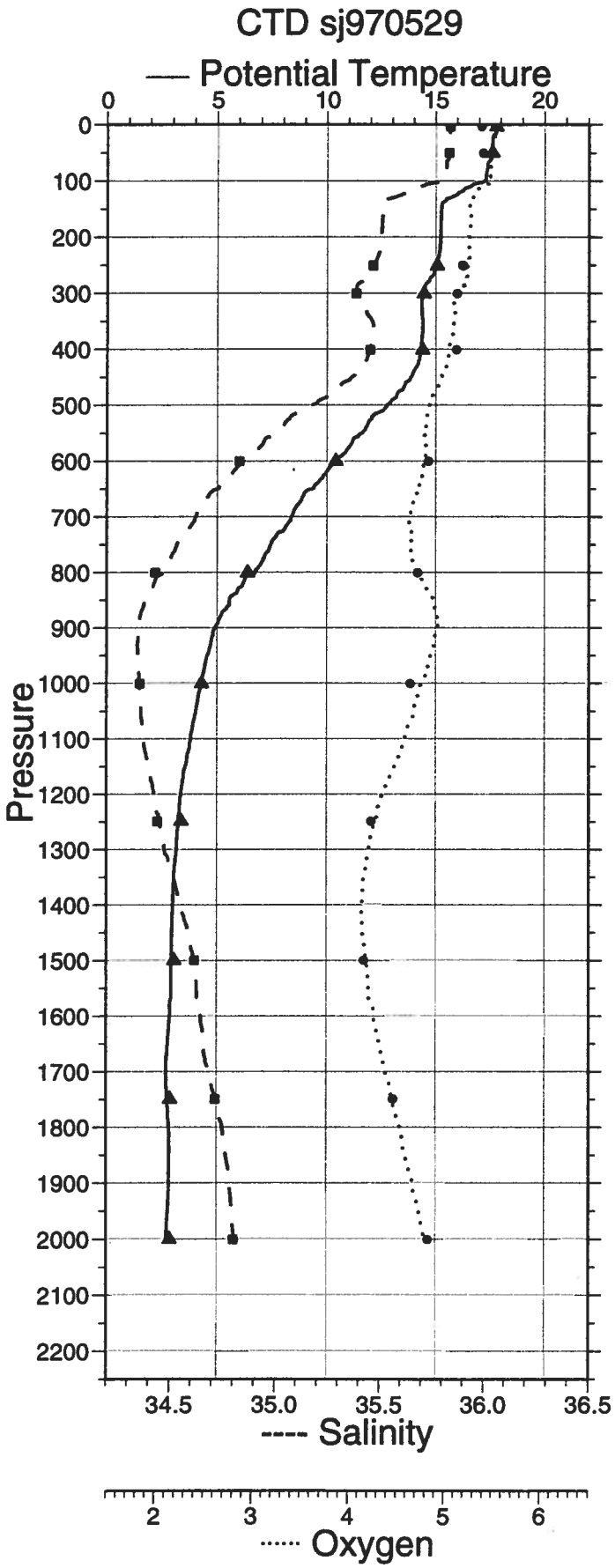

Salinity
Oxygen

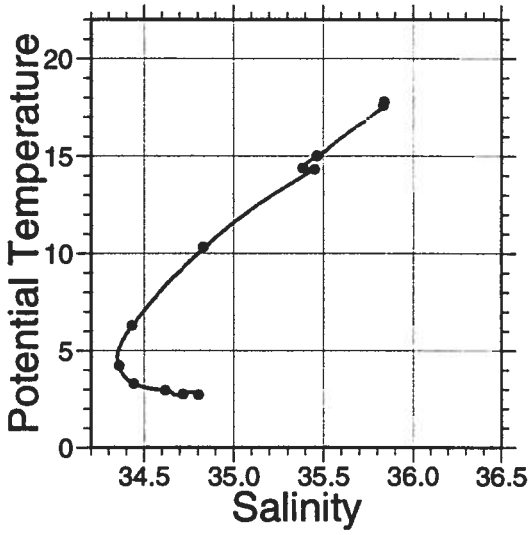
# station 29

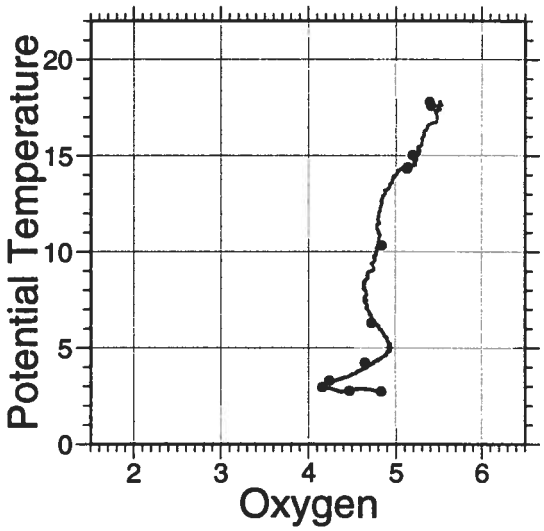
**lat. 29 48.48 S** **97/09/17**
**lon. 6 16.50 W** **20:40:00**

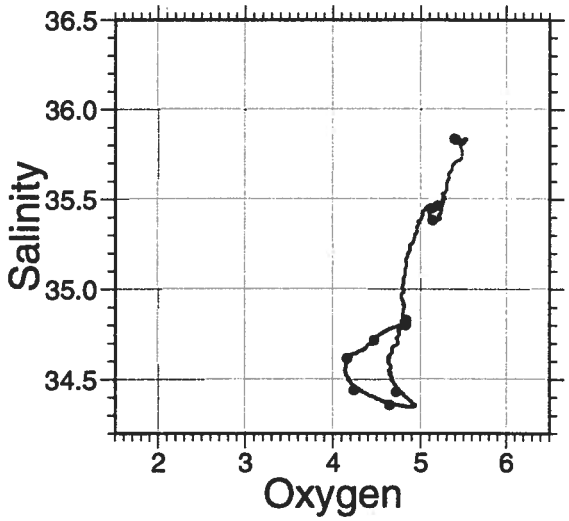
| PR | TE | PT | SA | OX | S0 | HZ |
|---|---|---|---|---|---|---|
| 0 | 17.795 | 17.795 | 35.837 | 5.512 | 25.965 | 0.000 |
| 10 | 17.798 | 17.796 | 35.836 | 5.508 | 25.964 | 0.020 |
| 20 | 17.651 | 17.647 | 35.836 | 5.528 | 26 | 0.041 |
| 30 | 17.635 | 17.63 | 35.834 | 5.528 | 26.003 | 0.061 |
| 40 | 17.611 | 17.604 | 35.831 | 5.507 | 26.007 | 0.081 |
| 50 | 17.605 | 17.596 | 35.831 | 5.487 | 26.009 | 0.101 |
| 60 | 17.591 | 17.581 | 35.83 | 5.482 | 26.012 | 0.121 |
| 70 | 17.415 | 17.403 | 35.82 | 5.514 | 26.048 | 0.141 |
| 80 | 17.39 | 17.376 | 35.816 | 5.487 | 26.051 | 0.160 |
| 90 | 17.343 | 17.328 | 35.808 | 5.475 | 26.057 | 0.180 |
| 100 | 17.279 | 17.262 | 35.797 | 5.462 | 26.064 | 0.200 |
| 110 | 16.608 | 16.59 | 35.696 | 5.374 | 26.147 | 0.219 |
| 120 | 16.14 | 16.121 | 35.626 | 5.325 | 26.202 | 0.238 |
| 130 | 15.653 | 15.632 | 35.558 | 5.298 | 26.262 | 0.256 |
| 140 | 15.321 | 15.3 | 35.517 | 5.266 | 26.305 | 0.274 |
| 150 | 15.289 | 15.266 | 35.514 | 5.256 | 26.31 | 0.291 |
| 160 | 15.278 | 15.253 | 35.511 | 5.277 | 26.311 | 0.309 |
| 170 | 15.273 | 15.247 | 35.51 | 5.274 | 26.311 | 0.327 |
| 180 | 15.269 | 15.241 | 35.508 | 5.267 | 26.311 | 0.344 |
| 190 | 15.264 | 15.234 | 35.507 | 5.255 | 26.312 | 0.362 |
| 200 | 15.258 | 15.227 | 35.505 | 5.258 | 26.312 | 0.379 |
| 210 | 15.247 | 15.214 | 35.502 | 5.265 | 26.312 | 0.397 |
| 220 | 15.233 | 15.199 | 35.499 | 5.252 | 26.313 | 0.415 |
| 230 | 15.19 | 15.155 | 35.491 | 5.246 | 26.317 | 0.433 |
| 240 | 15.147 | 15.11 | 35.483 | 5.25 | 26.321 | 0.450 |
| 250 | 15.1 | 15.061 | 35.474 | 5.254 | 26.325 | 0.468 |
| 260 | 15.002 | 14.962 | 35.457 | 5.238 | 26.334 | 0.486 |
| 270 | 14.883 | 14.842 | 35.437 | 5.234 | 26.344 | 0.503 |
| 280 | 14.672 | 14.63 | 35.407 | 5.208 | 26.368 | 0.521 |
| 290 | 14.499 | 14.456 | 35.386 | 5.179 | 26.389 | 0.538 |
| 300 | 14.446 | 14.402 | 35.388 | 5.161 | 26.402 | 0.555 |
| 325 | 14.395 | 14.347 | 35.424 | 5.096 | 26.442 | 0.597 |
| 350 | 14.446 | 14.394 | 35.461 | 5.093 | 26.46 | 0.639 |
| 375 | 14.425 | 14.369 | 35.461 | 5.087 | 26.466 | 0.681 |
| 400 | 14.381 | 14.322 | 35.452 | 5.057 | 26.469 | 0.723 |
| 425 | 14.246 | 14.183 | 35.424 | 5.019 | 26.477 | 0.765 |
| 450 | 13.914 | 13.848 | 35.363 | 4.974 | 26.5 | 0.807 |
| 475 | 13.379 | 13.311 | 35.269 | 4.918 | 26.539 | 0.848 |
| 500 | 12.827 | 12.758 | 35.176 | 4.842 | 26.578 | 0.888 |
| 550 | 11.634 | 11.563 | 34.996 | 4.808 | 26.669 | 0.965 |
| 600 | 10.413 | 10.341 | 34.843 | 4.805 | 26.771 | 1.038 |
| 650 | 9.396 | 9.322 | 34.724 | 4.731 | 26.85 | 1.107 |
| 700 | 8.433 | 8.358 | 34.62 | 4.641 | 26.921 | 1.171 |
| 750 | 7.508 | 7.433 | 34.533 | 4.639 | 26.99 | 1.233 |
| 800 | 6.784 | 6.708 | 34.469 | 4.71 | 27.041 | 1.291 |
| 850 | 5.64 | 5.566 | 34.38 | 4.89 | 27.117 | 1.345 |
| 900 | 4.98 | 4.906 | 34.35 | 4.926 | 27.171 | 1.396 |
| 950 | 4.636 | 4.56 | 34.35 | 4.855 | 27.21 | 1.445 |
| 1000 | 4.38 | 4.301 | 34.356 | 4.758 | 27.242 | 1.492 |
| 1100 | 3.905 | 3.822 | 34.377 | 4.579 | 27.309 | 1.581 |
| 1200 | 3.464 | 3.376 | 34.427 | 4.35 | 27.393 | 1.662 |
| 1300 | 3.279 | 3.185 | 34.474 | 4.212 | 27.448 | 1.737 |
| 1400 | 3.125 | 3.025 | 34.551 | 4.134 | 27.525 | 1.806 |
| 1500 | 3.075 | 2.966 | 34.614 | 4.178 | 27.58 | 1.870 |
| 1600 | 3.007 | 2.891 | 34.648 | 4.265 | 27.614 | 1.929 |
| 1700 | 2.839 | 2.716 | 34.683 | 4.387 | 27.658 | 1.986 |
| 1800 | 2.988 | 2.854 | 34.748 | 4.533 | 27.697 | 2.039 |
| 1900 | 2.997 | 2.854 | 34.784 | 4.664 | 27.726 | 2.090 |
| 2000 | 2.886 | 2.735 | 34.804 | 4.793 | 27.753 | 2.139 |

| PR | TE | PT | SA | OX | RN |
|---|---|---|---|---|---|
| 3.3 | 17.795 | 17.794 | 35.838 | 5.390 | 17 |
| 50.0 | 17.615 | 17.607 | 35.833 | 5.406 | 16 |
| 250.2 | 15.065 | 15.027 | 35.465 | 5.191 | 13 |
| 251.1 | 15.057 | 15.018 | 35.467 | 5.198 | 14 |
| 300.5 | 14.453 | 14.408 | 35.385 | 5.133 | 11 |
| 400.8 | 14.387 | 14.328 | 35.451 | 5.126 | 10 |
| 600.1 | 10.405 | 10.332 | 34.829 | 4.833 | 8 |
| 800.6 | 6.380 | 6.306 | 34.431 | 4.719 | 7 |
| 1000.2 | 4.303 | 4.225 | 34.358 | 4.645 | 5 |
| 1248.8 | 3.393 | 3.302 | 34.442 | 4.237 | 4 |
| 1499.9 | 3.073 | 2.964 | 34.618 | 4.161 | 3 |
| 1749.2 | 2.894 | 2.766 | 34.717 | 4.468 | 2 |
| 2000.6 | 2.884 | 2.734 | 34.803 | 4.831 | 1 |


CTD sj970529
— Potential Temperature
0 5 10 15 20
Pressure
0 100 200 300 400 500 600 700 800 900 1000 1100 1200 1300 1400 1500 1600 1700 1800 1900 2000 2100 2200
34.5 35.0 35.5 36.0 36.5
---- Salinity
2 3 4 5 6
····· Oxygen


Potential Temperature
0 5 10 15 20
34.5 35.0 35.5 36.0 36.5
Salinity


Potential Temperature
0 5 10 15 20
2 3 4 5 6
Oxygen

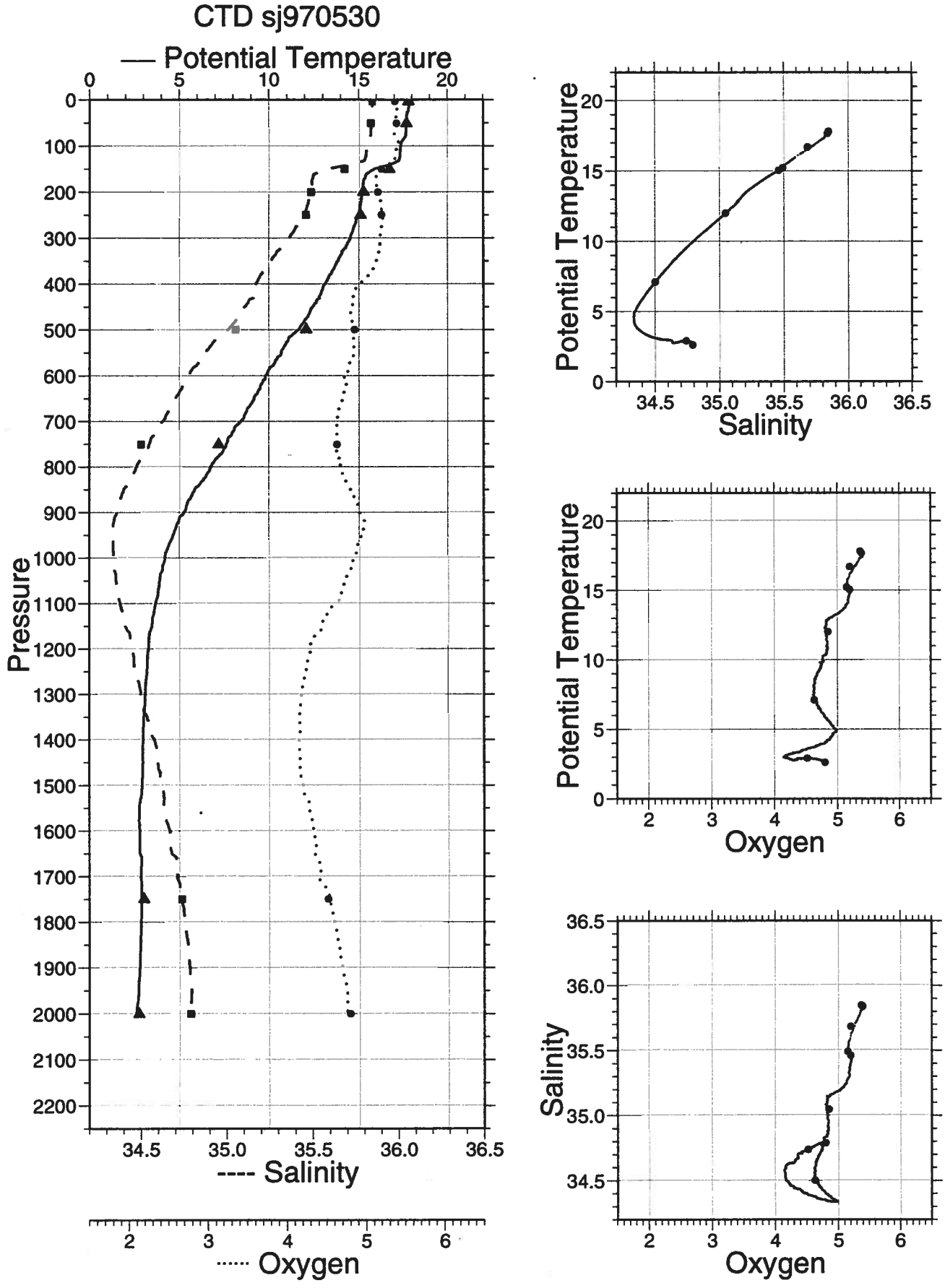

Salinity
34.5 35.0 35.5 36.0 36.5
2 3 4 5 6
Oxygen

# station 30

**lat. 29 49.68 S** **97/09/17**
**lon. 6 27.72 W** **23:07:01**

| PR | TE | PT | SA | OX | S0 | HZ |
|---|---|---|---|---|---|---|
| 0 | 17.829 | 17.829 | 35.847 | 5.381 | 25.964 | 0.000 |
| 10 | 17.845 | 17.843 | 35.847 | 5.39 | 25.961 | 0.020 |
| 20 | 17.814 | 17.81 | 35.847 | 5.398 | 25.969 | 0.041 |
| 30 | 17.744 | 17.739 | 35.845 | 5.407 | 25.985 | 0.061 |
| 40 | 17.711 | 17.704 | 35.843 | 5.391 | 25.992 | 0.081 |
| 50 | 17.697 | 17.689 | 35.84 | 5.398 | 25.993 | 0.101 |
| 60 | 17.689 | 17.679 | 35.84 | 5.39 | 25.996 | 0.122 |
| 70 | 17.679 | 17.667 | 35.839 | 5.364 | 25.998 | 0.142 |
| 80 | 17.642 | 17.628 | 35.834 | 5.376 | 26.004 | 0.162 |
| 90 | 17.46 | 17.444 | 35.819 | 5.415 | 26.037 | 0.182 |
| 100 | 17.389 | 17.372 | 35.815 | 5.382 | 26.051 | 0.202 |
| 110 | 17.375 | 17.356 | 35.814 | 5.39 | 26.054 | 0.222 |
| 120 | 17.358 | 17.337 | 35.81 | 5.373 | 26.056 | 0.242 |
| 130 | 17.306 | 17.284 | 35.801 | 5.366 | 26.062 | 0.262 |
| 140 | 16.826 | 16.803 | 35.728 | 5.304 | 26.121 | 0.281 |
| 150 | 15.882 | 15.859 | 35.577 | 5.181 | 26.225 | 0.300 |
| 160 | 15.5 | 15.475 | 35.517 | 5.157 | 26.266 | 0.318 |
| 170 | 15.377 | 15.351 | 35.501 | 5.122 | 26.281 | 0.336 |
| 180 | 15.29 | 15.262 | 35.497 | 5.13 | 26.298 | 0.354 |
| 190 | 15.263 | 15.234 | 35.498 | 5.148 | 26.305 | 0.372 |
| 200 | 15.232 | 15.201 | 35.492 | 5.163 | 26.308 | 0.389 |
| 210 | 15.198 | 15.166 | 35.483 | 5.157 | 26.309 | 0.407 |
| 220 | 15.16 | 15.127 | 35.476 | 5.188 | 26.312 | 0.425 |
| 230 | 15.12 | 15.085 | 35.469 | 5.203 | 26.316 | 0.443 |
| 240 | 15.081 | 15.045 | 35.461 | 5.198 | 26.319 | 0.460 |
| 250 | 14.987 | 14.949 | 35.443 | 5.21 | 26.326 | 0.478 |
| 260 | 14.905 | 14.866 | 35.428 | 5.219 | 26.332 | 0.496 |
| 270 | 14.821 | 14.78 | 35.413 | 5.208 | 26.34 | 0.513 |
| 280 | 14.737 | 14.695 | 35.398 | 5.198 | 26.347 | 0.531 |
| 290 | 14.639 | 14.596 | 35.38 | 5.194 | 26.354 | 0.548 |
| 300 | 14.562 | 14.517 | 35.365 | 5.184 | 26.36 | 0.566 |
| 325 | 14.198 | 14.151 | 35.305 | 5.182 | 26.392 | 0.609 |
| 350 | 13.89 | 13.839 | 35.258 | 5.133 | 26.421 | 0.652 |
| 375 | 13.537 | 13.484 | 35.207 | 5.053 | 26.455 | 0.695 |
| 400 | 13.162 | 13.106 | 35.169 | 4.928 | 26.503 | 0.736 |
| 425 | 12.89 | 12.831 | 35.141 | 4.84 | 26.537 | 0.777 |
| 450 | 12.498 | 12.437 | 35.103 | 4.82 | 26.585 | 0.816 |
| 475 | 12.152 | 12.089 | 35.061 | 4.817 | 26.62 | 0.855 |
| 500 | 11.713 | 11.648 | 35.005 | 4.838 | 26.66 | 0.893 |
| 550 | 10.755 | 10.687 | 34.88 | 4.829 | 26.739 | 0.966 |
| 600 | 9.873 | 9.803 | 34.772 | 4.756 | 26.808 | 1.036 |
| 650 | 9.246 | 9.173 | 34.702 | 4.7 | 26.857 | 1.103 |
| 700 | 8.523 | 8.448 | 34.626 | 4.635 | 26.912 | 1.168 |
| 750 | 7.704 | 7.627 | 34.547 | 4.628 | 26.973 | 1.230 |
| 800 | 6.825 | 6.749 | 34.472 | 4.672 | 27.037 | 1.289 |
| 850 | 5.934 | 5.859 | 34.399 | 4.8 | 27.096 | 1.344 |
| 900 | 5.334 | 5.257 | 34.359 | 4.91 | 27.137 | 1.397 |
| 950 | 4.721 | 4.645 | 34.336 | 4.925 | 27.189 | 1.447 |
| 1000 | 4.291 | 4.214 | 34.34 | 4.842 | 27.239 | 1.494 |
| 1100 | 3.771 | 3.689 | 34.379 | 4.597 | 27.324 | 1.582 |
| 1200 | 3.386 | 3.299 | 34.442 | 4.31 | 27.412 | 1.662 |
| 1300 | 3.21 | 3.116 | 34.499 | 4.178 | 27.474 | 1.735 |
| 1400 | 3.092 | 2.992 | 34.578 | 4.144 | 27.549 | 1.801 |
| 1500 | 3.044 | 2.936 | 34.624 | 4.196 | 27.591 | 1.863 |
| 1600 | 2.924 | 2.809 | 34.669 | 4.349 | 27.638 | 1.921 |
| 1700 | 3.003 | 2.877 | 34.712 | 4.412 | 27.666 | 1.976 |
| 1800 | 3.025 | 2.891 | 34.759 | 4.587 | 27.703 | 2.029 |
| 1900 | 2.957 | 2.814 | 34.785 | 4.692 | 27.73 | 2.079 |
| 2000 | 2.762 | 2.614 | 34.791 | 4.773 | 27.753 | 2.128 |
| 2005 | 2.747 | 2.598 | 34.792 | 4.776 | 27.755 | 2.130 |

| PR | TE | PT | SA | OX | RN |
|---|---|---|---|---|---|
| 3.4 | 17.814 | 17.813 | 35.847 | 5.375 | 16 |
| 50.7 | 17.692 | 17.683 | 35.840 | 5.395 | 14 |
| 150.1 | 16.726 | 16.702 | 35.685 | 5.200 | 11 |
| 199.9 | 15.255 | 15.225 | 35.491 | 5.153 | 10 |
| 249.7 | 15.089 | 15.051 | 35.461 | 5.200 | 8 |
| 499.1 | 12.076 | 12.010 | 35.048 | 4.853 | 7 |
| 750.5 | 7.196 | 7.122 | 34.501 | 4.631 | 5 |
| 1749.4 | 3.042 | 2.912 | 34.739 | 4.517 | 2 |
| 2000.2 | 2.768 | 2.619 | 34.790 | 4.799 | 1 |


CTD sj970530
— Potential Temperature
Pressure
---- Salinity
····· Oxygen
Potential Temperature
Salinity
Potential Temperature
Oxygen
Salinity
Oxygen

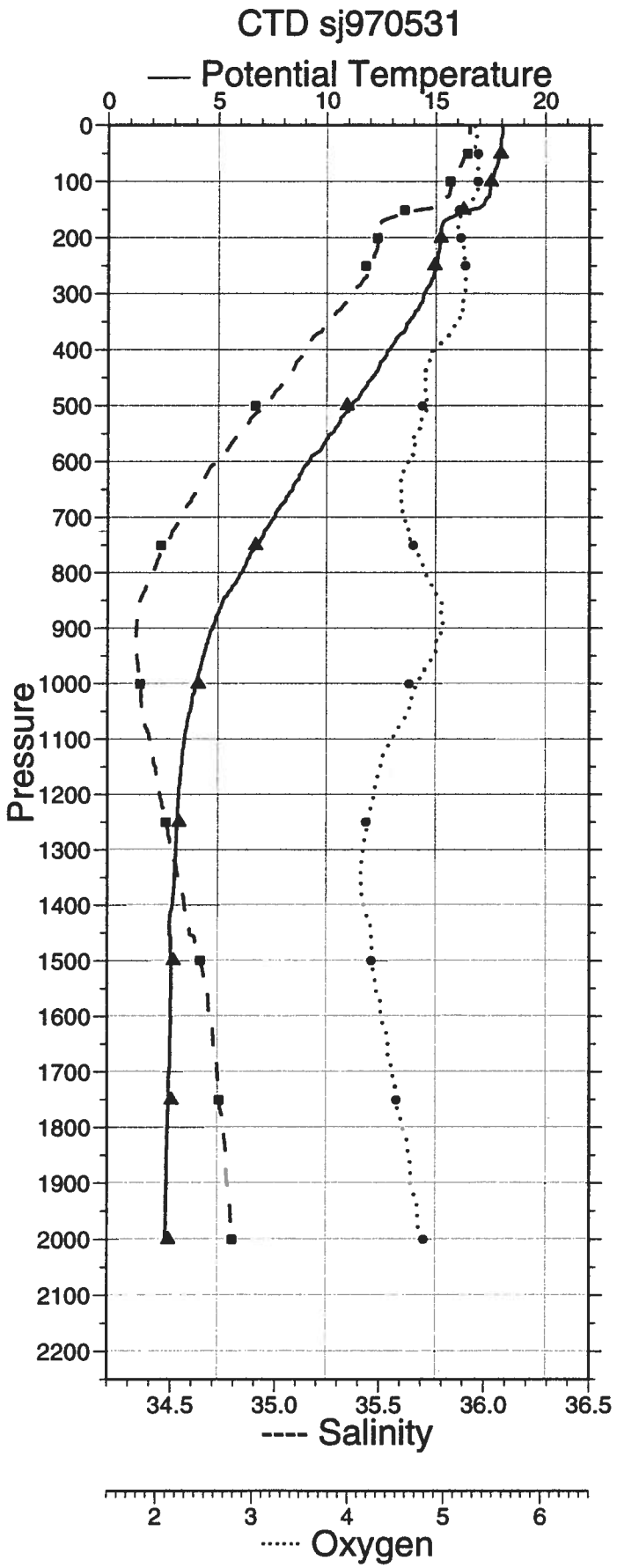
# station 31

**lat. 29 51.48 S**
**lon. 6 41.47 W**

**97/09/18**
**01:35:32**

| PR | TE | PT | SA | OX | S0 | HZ |
|---|---|---|---|---|---|---|
| 0 | 18.033 | 18.033 | 35.929 | 5.316 | 25.977 | 0.000 |
| 10 | 18.043 | 18.041 | 35.929 | 5.314 | 25.975 | 0.020 |
| 20 | 18.015 | 18.011 | 35.927 | 5.327 | 25.981 | 0.040 |
| 30 | 17.968 | 17.963 | 35.923 | 5.339 | 25.99 | 0.061 |
| 40 | 17.957 | 17.95 | 35.921 | 5.317 | 25.991 | 0.081 |
| 50 | 17.94 | 17.931 | 35.916 | 5.337 | 25.992 | 0.101 |
| 60 | 17.864 | 17.854 | 35.899 | 5.345 | 25.998 | 0.121 |
| 70 | 17.815 | 17.803 | 35.888 | 5.344 | 26.002 | 0.142 |
| 80 | 17.702 | 17.688 | 35.88 | 5.344 | 26.024 | 0.162 |
| 90 | 17.652 | 17.636 | 35.873 | 5.315 | 26.031 | 0.182 |
| 100 | 17.543 | 17.526 | 35.848 | 5.339 | 26.039 | 0.202 |
| 110 | 17.51 | 17.492 | 35.84 | 5.337 | 26.042 | 0.222 |
| 120 | 17.487 | 17.466 | 35.835 | 5.323 | 26.044 | 0.242 |
| 130 | 17.346 | 17.324 | 35.808 | 5.3 | 26.058 | 0.262 |
| 140 | 17.224 | 17.2 | 35.784 | 5.252 | 26.069 | 0.281 |
| 150 | 16.664 | 16.639 | 35.694 | 5.218 | 26.134 | 0.301 |
| 160 | 15.948 | 15.923 | 35.583 | 5.171 | 26.215 | 0.320 |
| 170 | 15.44 | 15.414 | 35.514 | 5.152 | 26.277 | 0.338 |
| 180 | 15.299 | 15.271 | 35.497 | 5.143 | 26.296 | 0.356 |
| 190 | 15.266 | 15.237 | 35.495 | 5.148 | 26.302 | 0.374 |
| 200 | 15.246 | 15.215 | 35.493 | 5.174 | 26.305 | 0.391 |
| 210 | 15.23 | 15.197 | 35.491 | 5.184 | 26.308 | 0.409 |
| 220 | 15.207 | 15.173 | 35.486 | 5.199 | 26.309 | 0.427 |
| 230 | 15.136 | 15.1 | 35.473 | 5.22 | 26.315 | 0.444 |
| 240 | 15.114 | 15.077 | 35.468 | 5.201 | 26.317 | 0.462 |
| 250 | 15.067 | 15.029 | 35.458 | 5.212 | 26.32 | 0.480 |
| 260 | 14.998 | 14.958 | 35.446 | 5.218 | 26.326 | 0.498 |
| 270 | 14.943 | 14.902 | 35.435 | 5.214 | 26.33 | 0.515 |
| 280 | 14.811 | 14.769 | 35.411 | 5.217 | 26.34 | 0.533 |
| 290 | 14.639 | 14.595 | 35.381 | 5.217 | 26.355 | 0.551 |
| 300 | 14.51 | 14.465 | 35.358 | 5.203 | 26.365 | 0.568 |
| 325 | 14.264 | 14.216 | 35.316 | 5.176 | 26.386 | 0.612 |
| 350 | 13.825 | 13.775 | 35.248 | 5.127 | 26.427 | 0.654 |
| 375 | 13.365 | 13.312 | 35.186 | 5.034 | 26.474 | 0.696 |
| 400 | 12.92 | 12.865 | 35.144 | 4.897 | 26.532 | 0.737 |
| 425 | 12.509 | 12.451 | 35.096 | 4.816 | 26.577 | 0.777 |
| 450 | 12.147 | 12.087 | 35.054 | 4.816 | 26.615 | 0.816 |
| 475 | 11.669 | 11.607 | 34.997 | 4.805 | 26.662 | 0.854 |
| 500 | 11.232 | 11.169 | 34.941 | 4.799 | 26.699 | 0.890 |
| 550 | 10.274 | 10.208 | 34.824 | 4.7 | 26.779 | 0.962 |
| 600 | 9.258 | 9.19 | 34.709 | 4.629 | 26.86 | 1.029 |
| 650 | 8.493 | 8.423 | 34.627 | 4.54 | 26.917 | 1.093 |
| 700 | 7.669 | 7.598 | 34.546 | 4.592 | 26.977 | 1.154 |
| 750 | 6.827 | 6.755 | 34.47 | 4.683 | 27.035 | 1.213 |
| 800 | 6.148 | 6.075 | 34.414 | 4.804 | 27.08 | 1.268 |
| 850 | 5.306 | 5.235 | 34.354 | 4.963 | 27.136 | 1.321 |
| 900 | 4.828 | 4.755 | 34.336 | 4.967 | 27.177 | 1.371 |
| 950 | 4.426 | 4.352 | 34.338 | 4.873 | 27.223 | 1.419 |
| 1000 | 4.093 | 4.017 | 34.356 | 4.724 | 27.272 | 1.465 |
| 1100 | 3.568 | 3.488 | 34.399 | 4.436 | 27.359 | 1.549 |
| 1200 | 3.314 | 3.228 | 34.447 | 4.264 | 27.423 | 1.626 |
| 1300 | 3.195 | 3.101 | 34.504 | 4.158 | 27.48 | 1.698 |
| 1400 | 3.051 | 2.951 | 34.565 | 4.166 | 27.542 | 1.764 |
| 1500 | 2.986 | 2.878 | 34.636 | 4.247 | 27.606 | 1.825 |
| 1600 | 2.997 | 2.881 | 34.687 | 4.352 | 27.646 | 1.882 |
| 1700 | 2.937 | 2.812 | 34.722 | 4.47 | 27.68 | 1.936 |
| 1800 | 2.872 | 2.74 | 34.748 | 4.571 | 27.708 | 1.988 |
| 1900 | 2.835 | 2.694 | 34.77 | 4.653 | 27.729 | 2.038 |
| 2000 | 2.783 | 2.634 | 34.793 | 4.77 | 27.753 | 2.086 |

| PR | TE | PT | SA | OX | RN |
|---|---|---|---|---|---|
| 50.4 | 17.948 | 17.940 | 35.918 | 5.346 | 16 |
| 100.2 | 17.520 | 17.503 | 35.836 | 5.348 | 14 |
| 150.6 | 16.274 | 16.250 | 35.618 | 5.153 | 13 |
| 200.5 | 15.229 | 15.198 | 35.488 | 5.169 | 11 |
| 249.8 | 14.947 | 14.909 | 35.432 | 5.218 | 10 |
| 500.1 | 10.937 | 10.875 | 34.901 | 4.772 | 9 |
| 750.5 | 6.731 | 6.660 | 34.451 | 4.678 | 8 |
| 1000.4 | 4.107 | 4.031 | 34.354 | 4.638 | 7 |
| 1249.9 | 3.243 | 3.154 | 34.477 | 4.186 | 4 |
| 1250.0 | 3.243 | 3.153 | 34.476 | 4.188 | 5 |
| 1499.7 | 3.006 | 2.897 | 34.640 | 4.246 | 3 |
| 1750.4 | 2.906 | 2.778 | 34.730 | 4.506 | 2 |
| 2000.5 | 2.783 | 2.634 | 34.793 | 4.793 | 1 |


CTD sj970531
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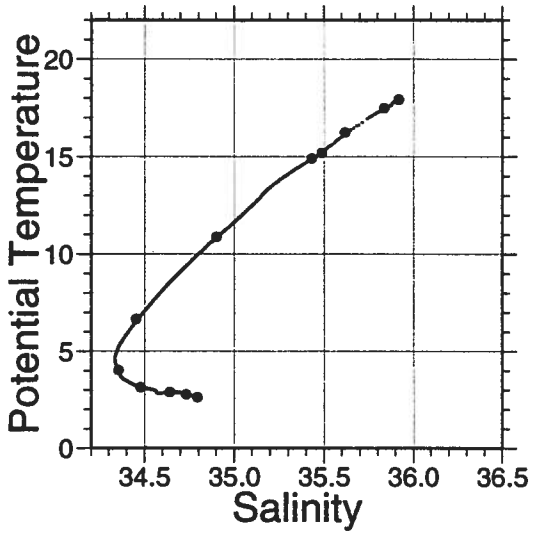
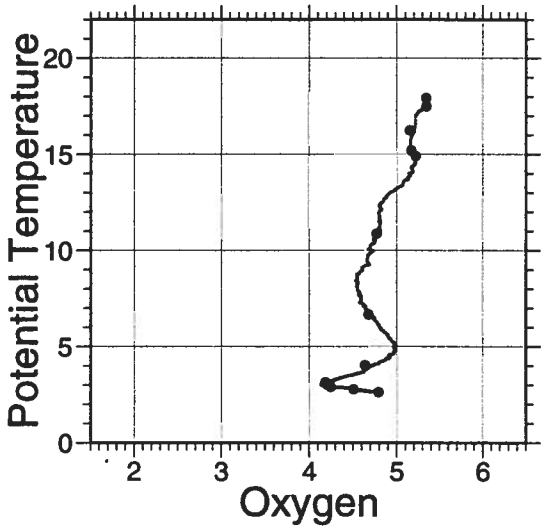
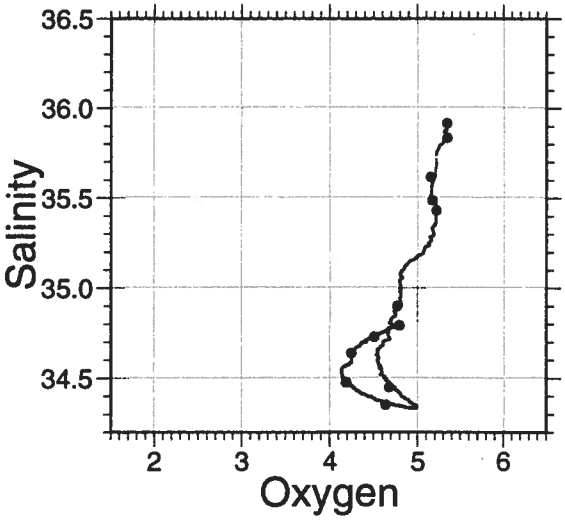
Pressure
0 100 200 300 400 500 600 700 800 900 1000 1100 1200 1300 1400 1500 1600 1700 1800 1900 2000 2100 2200
34.5 35.0 35.5 36.0 36.5
---- Salinity
2 3 4 5 6
····· Oxygen


Potential Temperature
0 5 10 15 20
34.5 35.0 35.5 36.0 36.5
Salinity


Potential Temperature
0 5 10 15 20
2 3 4 5 6
Oxygen

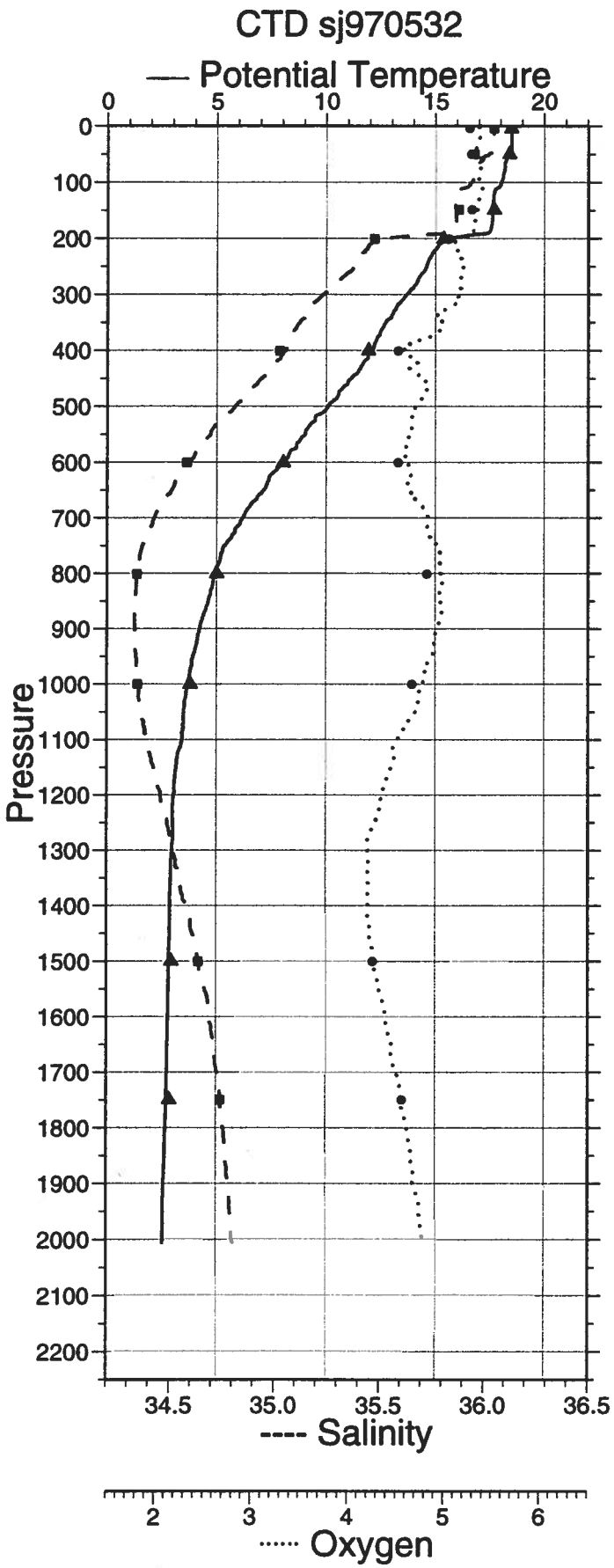

Salinity
34.5 35.0 35.5 36.0 36.5
2 3 4 5 6
Oxygen

# station 32

**lat. 29 54.00 S** **97/09/18**
**lon. 7 0.00 W** **04:33:22**

| PR | TE | PT | SA | OX | S0 | HZ |
|---|---|---|---|---|---|---|
| 0 | 18.5 | 18.5 | 36.05 | 5.367 | 25.952 | 0.000 |
| 10 | 18.502 | 18.501 | 36.049 | 5.369 | 25.952 | 0.020 |
| 20 | 18.509 | 18.505 | 36.049 | 5.367 | 25.95 | 0.041 |
| 30 | 18.512 | 18.507 | 36.049 | 5.352 | 25.95 | 0.061 |
| 40 | 18.497 | 18.49 | 36.046 | 5.335 | 25.952 | 0.082 |
| 50 | 18.385 | 18.376 | 36.022 | 5.371 | 25.962 | 0.103 |
| 60 | 18.272 | 18.261 | 35.995 | 5.369 | 25.97 | 0.123 |
| 70 | 18.209 | 18.197 | 35.977 | 5.375 | 25.973 | 0.144 |
| 80 | 18.169 | 18.156 | 35.968 | 5.377 | 25.976 | 0.164 |
| 90 | 18.133 | 18.118 | 35.957 | 5.367 | 25.977 | 0.185 |
| 100 | 18.033 | 18.015 | 35.939 | 5.379 | 25.989 | 0.205 |
| 110 | 17.892 | 17.873 | 35.91 | 5.393 | 26.002 | 0.225 |
| 120 | 17.721 | 17.7 | 35.884 | 5.385 | 26.024 | 0.246 |
| 130 | 17.698 | 17.676 | 35.88 | 5.363 | 26.027 | 0.266 |
| 140 | 17.641 | 17.617 | 35.865 | 5.357 | 26.03 | 0.286 |
| 150 | 17.641 | 17.615 | 35.866 | 5.341 | 26.031 | 0.306 |
| 160 | 17.643 | 17.616 | 35.867 | 5.325 | 26.032 | 0.327 |
| 170 | 17.64 | 17.611 | 35.868 | 5.314 | 26.034 | 0.347 |
| 180 | 17.591 | 17.56 | 35.859 | 5.313 | 26.039 | 0.367 |
| 190 | 17.471 | 17.439 | 35.831 | 5.301 | 26.048 | 0.387 |
| 200 | 15.769 | 15.737 | 35.542 | 5.148 | 26.226 | 0.407 |
| 210 | 15.216 | 15.183 | 35.452 | 5.095 | 26.281 | 0.425 |
| 220 | 15.056 | 15.023 | 35.436 | 5.125 | 26.304 | 0.443 |
| 230 | 14.859 | 14.824 | 35.413 | 5.17 | 26.33 | 0.461 |
| 240 | 14.722 | 14.686 | 35.389 | 5.172 | 26.342 | 0.478 |
| 250 | 14.638 | 14.601 | 35.377 | 5.185 | 26.351 | 0.496 |
| 260 | 14.476 | 14.438 | 35.352 | 5.202 | 26.367 | 0.513 |
| 270 | 14.278 | 14.238 | 35.319 | 5.177 | 26.384 | 0.530 |
| 280 | 14.163 | 14.122 | 35.299 | 5.172 | 26.393 | 0.547 |
| 290 | 13.938 | 13.896 | 35.264 | 5.177 | 26.414 | 0.564 |
| 300 | 13.708 | 13.665 | 35.23 | 5.182 | 26.436 | 0.581 |
| 325 | 13.235 | 13.19 | 35.165 | 5.046 | 26.483 | 0.622 |
| 350 | 12.766 | 12.718 | 35.119 | 4.962 | 26.542 | 0.663 |
| 375 | 12.414 | 12.363 | 35.079 | 4.865 | 26.581 | 0.702 |
| 400 | 12.155 | 12.102 | 35.05 | 4.57 | 26.609 | 0.740 |
| 425 | 11.715 | 11.66 | 35 | 4.67 | 26.654 | 0.778 |
| 450 | 11.199 | 11.142 | 34.936 | 4.732 | 26.7 | 0.815 |
| 475 | 10.626 | 10.568 | 34.868 | 4.792 | 26.751 | 0.850 |
| 500 | 10.138 | 10.079 | 34.809 | 4.697 | 26.79 | 0.885 |
| 550 | 9.103 | 9.042 | 34.692 | 4.632 | 26.871 | 0.951 |
| 600 | 8.082 | 8.02 | 34.59 | 4.617 | 26.949 | 1.013 |
| 650 | 7.219 | 7.156 | 34.508 | 4.626 | 27.01 | 1.072 |
| 700 | 6.245 | 6.182 | 34.425 | 4.843 | 27.075 | 1.128 |
| 750 | 5.439 | 5.376 | 34.37 | 4.947 | 27.132 | 1.180 |
| 800 | 4.976 | 4.911 | 34.346 | 4.966 | 27.167 | 1.231 |
| 850 | 4.684 | 4.617 | 34.335 | 4.968 | 27.191 | 1.279 |
| 900 | 4.281 | 4.212 | 34.334 | 4.934 | 27.234 | 1.326 |
| 950 | 3.987 | 3.916 | 34.34 | 4.862 | 27.27 | 1.371 |
| 1000 | 3.765 | 3.691 | 34.351 | 4.765 | 27.301 | 1.414 |
| 1100 | 3.498 | 3.419 | 34.394 | 4.502 | 27.362 | 1.497 |
| 1200 | 3.142 | 3.057 | 34.456 | 4.335 | 27.446 | 1.572 |
| 1300 | 3.083 | 2.991 | 34.521 | 4.205 | 27.504 | 1.641 |
| 1400 | 3.006 | 2.906 | 34.579 | 4.209 | 27.558 | 1.706 |
| 1500 | 2.956 | 2.848 | 34.637 | 4.269 | 27.609 | 1.766 |
| 1600 | 2.931 | 2.815 | 34.687 | 4.393 | 27.652 | 1.822 |
| 1700 | 2.887 | 2.763 | 34.728 | 4.503 | 27.689 | 1.875 |
| 1800 | 2.829 | 2.697 | 34.757 | 4.615 | 27.719 | 1.926 |
| 1900 | 2.756 | 2.616 | 34.78 | 4.682 | 27.744 | 1.974 |
| 2000 | 2.721 | 2.573 | 34.797 | 4.774 | 27.761 | 2.021 |
| 2005 | 2.714 | 2.566 | 34.8 | 4.786 | 27.764 | 2.023 |

| PR | TE | PT | SA | OX | RN |
|---|---|---|---|---|---|
| 3.9 | 18.493 | 18.493 | 36.049 | 5.265 | 14 |
| 49.7 | 18.404 | 18.395 | 35.954 | 5.285 | 13 |
| 148.8 | 17.689 | 17.664 | 35.880 | 5.292 | 11 |
| 200.6 | 15.382 | 15.350 | 35.475 | 5.052 | 10 |
| 400.2 | 11.926 | 11.874 | 35.022 | 4.520 | 9 |
| 600.9 | 8.029 | 7.967 | 34.580 | 4.520 | 8 |
| 800.8 | 4.999 | 4.934 | 34.344 | 4.824 | 6 |
| 999.7 | 3.796 | 3.722 | 34.348 | 4.667 | 5 |
| 1500.0 | 2.958 | 2.850 | 34.637 | 4.260 | 3 |
| 1749.3 | 2.864 | 2.736 | 34.742 | 4.564 | 2 |


CTD sj970532
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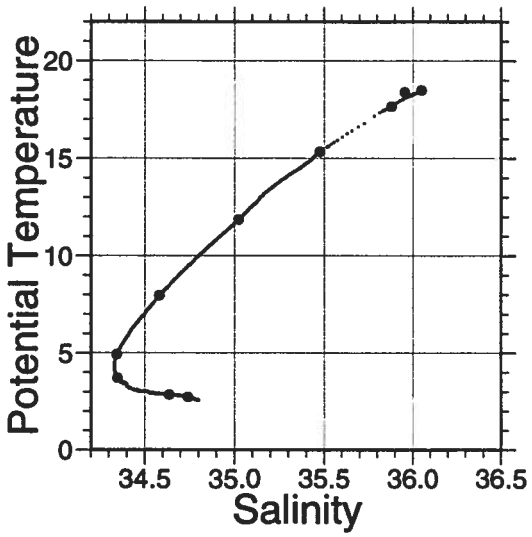
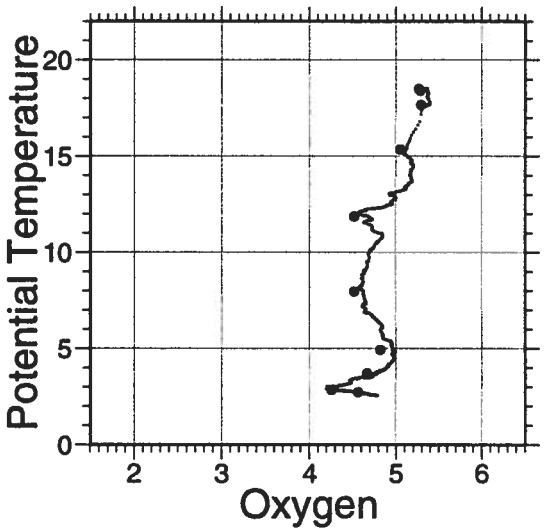
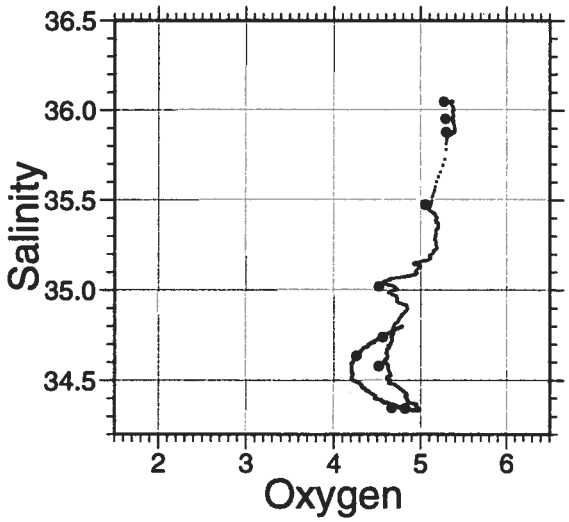
0 5 10 15 20
Pressure
0 100 200 300 400 500 600 700 800 900 1000 1100 1200 1300 1400 1500 1600 1700 1800 1900 2000 2100 2200
34.5 35.0 35.5 36.0 36.5
---- Salinity
2 3 4 5 6
····· Oxygen


Potential Temperature
0 5 10 15 20
34.5 35.0 35.5 36.0 36.5
Salinity


Potential Temperature
0 5 10 15 20
2 3 4 5 6
Oxygen

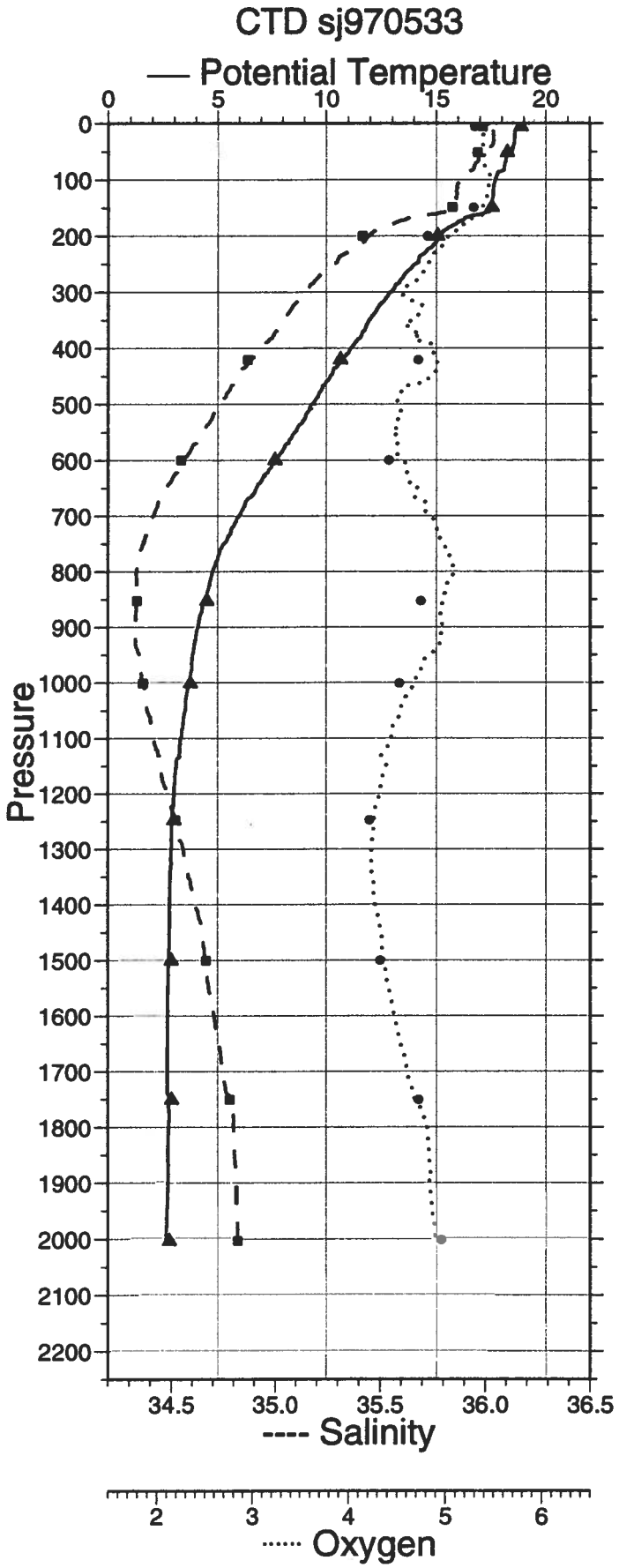

Salinity
34.5 35.0 35.5 36.0 36.5
2 3 4 5 6
Oxygen

# station 33

**lat. 28 47.93 S** **97/09/18**
**lon. 6 59.93 W** **13:02:35**

| PR | TE | PT | SA | OX | S0 | HZ |
|---|---|---|---|---|---|---|
| 0 | 18.778 | 18.778 | 36.016 | 5.406 | 25.856 | 0.000 |
| 10 | 18.647 | 18.645 | 36.044 | 5.396 | 25.911 | 0.021 |
| 20 | 18.598 | 18.594 | 36.042 | 5.394 | 25.922 | 0.042 |
| 30 | 18.583 | 18.578 | 36.041 | 5.402 | 25.926 | 0.063 |
| 40 | 18.532 | 18.525 | 36.033 | 5.389 | 25.933 | 0.083 |
| 50 | 18.446 | 18.437 | 36.026 | 5.402 | 25.95 | 0.104 |
| 60 | 18.211 | 18.2 | 35.972 | 5.425 | 25.968 | 0.125 |
| 70 | 18.141 | 18.129 | 35.955 | 5.42 | 25.973 | 0.145 |
| 80 | 18.111 | 18.097 | 35.947 | 5.423 | 25.975 | 0.166 |
| 90 | 17.806 | 17.791 | 35.89 | 5.468 | 26.007 | 0.186 |
| 100 | 17.714 | 17.697 | 35.882 | 5.466 | 26.024 | 0.206 |
| 110 | 17.648 | 17.629 | 35.868 | 5.455 | 26.029 | 0.226 |
| 120 | 17.622 | 17.601 | 35.864 | 5.447 | 26.033 | 0.246 |
| 130 | 17.613 | 17.591 | 35.864 | 5.43 | 26.036 | 0.267 |
| 140 | 17.58 | 17.556 | 35.858 | 5.417 | 26.04 | 0.287 |
| 150 | 17.532 | 17.507 | 35.848 | 5.383 | 26.044 | 0.307 |
| 160 | 17.182 | 17.155 | 35.78 | 5.378 | 26.077 | 0.327 |
| 170 | 16.277 | 16.25 | 35.626 | 5.27 | 26.173 | 0.346 |
| 180 | 15.86 | 15.832 | 35.551 | 5.184 | 26.211 | 0.365 |
| 190 | 15.418 | 15.389 | 35.482 | 5.118 | 26.258 | 0.383 |
| 200 | 15.187 | 15.157 | 35.446 | 5.029 | 26.282 | 0.401 |
| 210 | 15.053 | 15.021 | 35.425 | 5.011 | 26.296 | 0.419 |
| 220 | 14.839 | 14.806 | 35.39 | 4.962 | 26.316 | 0.437 |
| 230 | 14.514 | 14.48 | 35.341 | 4.89 | 26.349 | 0.454 |
| 240 | 14.262 | 14.227 | 35.303 | 4.854 | 26.374 | 0.472 |
| 250 | 14.06 | 14.024 | 35.276 | 4.825 | 26.396 | 0.489 |
| 260 | 13.809 | 13.772 | 35.243 | 4.789 | 26.424 | 0.506 |
| 270 | 13.588 | 13.55 | 35.215 | 4.743 | 26.448 | 0.522 |
| 280 | 13.376 | 13.336 | 35.188 | 4.696 | 26.471 | 0.539 |
| 290 | 13.166 | 13.125 | 35.164 | 4.597 | 26.495 | 0.555 |
| 300 | 12.959 | 12.917 | 35.141 | 4.582 | 26.519 | 0.571 |
| 325 | 12.433 | 12.39 | 35.085 | 4.765 | 26.58 | 0.610 |
| 350 | 11.989 | 11.943 | 35.034 | 4.654 | 26.627 | 0.648 |
| 375 | 11.661 | 11.613 | 34.994 | 4.759 | 26.658 | 0.685 |
| 400 | 11.174 | 11.124 | 34.936 | 4.883 | 26.704 | 0.721 |
| 425 | 10.674 | 10.622 | 34.873 | 4.917 | 26.745 | 0.757 |
| 450 | 10.233 | 10.18 | 34.821 | 4.866 | 26.782 | 0.791 |
| 475 | 9.835 | 9.779 | 34.779 | 4.565 | 26.817 | 0.825 |
| 500 | 9.409 | 9.352 | 34.731 | 4.507 | 26.851 | 0.857 |
| 550 | 8.626 | 8.567 | 34.648 | 4.447 | 26.911 | 0.921 |
| 600 | 7.665 | 7.604 | 34.553 | 4.557 | 26.981 | 0.981 |
| 650 | 6.843 | 6.782 | 34.478 | 4.719 | 27.038 | 1.039 |
| 700 | 6.04 | 5.978 | 34.41 | 4.828 | 27.089 | 1.093 |
| 750 | 5.337 | 5.274 | 34.367 | 4.986 | 27.142 | 1.145 |
| 800 | 4.824 | 4.76 | 34.335 | 5.065 | 27.175 | 1.194 |
| 850 | 4.478 | 4.412 | 34.336 | 4.979 | 27.215 | 1.242 |
| 900 | 4.163 | 4.095 | 34.33 | 4.953 | 27.243 | 1.288 |
| 950 | 3.923 | 3.852 | 34.349 | 4.835 | 27.283 | 1.332 |
| 1000 | 3.767 | 3.693 | 34.365 | 4.684 | 27.312 | 1.375 |
| 1100 | 3.386 | 3.307 | 34.413 | 4.447 | 27.388 | 1.455 |
| 1200 | 3.085 | 3.001 | 34.475 | 4.315 | 27.466 | 1.529 |
| 1300 | 2.957 | 2.866 | 34.557 | 4.237 | 27.544 | 1.595 |
| 1400 | 2.899 | 2.8 | 34.615 | 4.276 | 27.596 | 1.655 |
| 1500 | 2.871 | 2.764 | 34.666 | 4.368 | 27.64 | 1.712 |
| 1600 | 2.827 | 2.712 | 34.706 | 4.478 | 27.676 | 1.765 |
| 1700 | 2.812 | 2.689 | 34.749 | 4.611 | 27.713 | 1.816 |
| 1800 | 2.876 | 2.743 | 34.8 | 4.816 | 27.749 | 1.864 |
| 1900 | 2.863 | 2.722 | 34.813 | 4.841 | 27.761 | 1.910 |
| 2000 | 2.783 | 2.634 | 34.82 | 4.9 | 27.774 | 1.956 |
| 2005 | 2.781 | 2.632 | 34.82 | 4.885 | 27.775 | 1.958 |

| PR | TE | PT | SA | OX | RN |
|---|---|---|---|---|---|
| 5.3 | 18.871 | 18.870 | 35.990 | 5.310 | 14 |
| 51.3 | 18.245 | 18.236 | 35.965 | 5.332 | 13 |
| 148.5 | 17.533 | 17.508 | 35.845 | 5.296 | 11 |
| 199.8 | 15.071 | 15.041 | 35.417 | 4.822 | 10 |
| 420.0 | 10.648 | 10.597 | 34.868 | 4.723 | 9 |
| 599.8 | 7.638 | 7.578 | 34.547 | 4.417 | 8 |
| 852.3 | 4.503 | 4.436 | 34.336 | 4.750 | 7 |
| 1001.0 | 3.742 | 3.669 | 34.367 | 4.528 | 5 |
| 1247.7 | 2.983 | 2.896 | 34.520 | 4.217 | 4 |
| 1500.2 | 2.870 | 2.763 | 34.667 | 4.329 | 3 |
| 1750.5 | 2.885 | 2.757 | 34.782 | 4.725 | 2 |
| 2003.3 | 2.782 | 2.633 | 34.820 | 4.958 | 1 |


CTD sj970533
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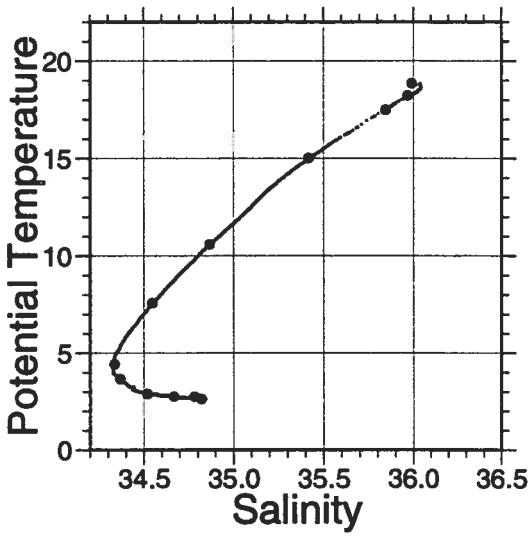
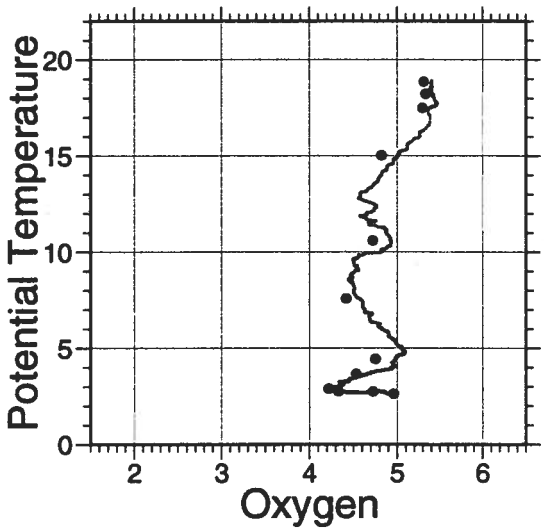
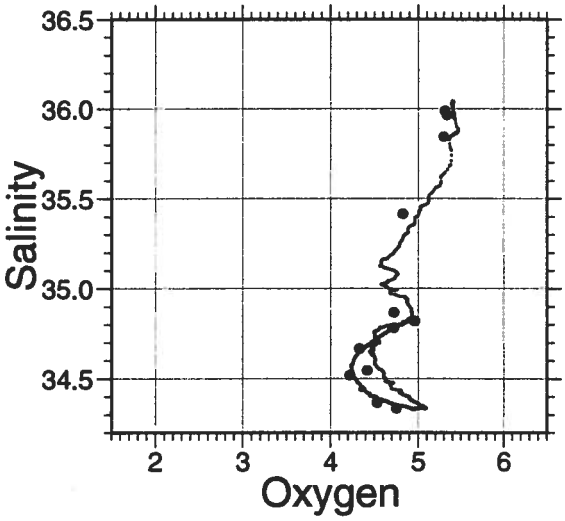
Pressure
0 100 200 300 400 500 600 700 800 900 1000 1100 1200 1300 1400 1500 1600 1700 1800 1900 2000 2100 2200
34.5 35.0 35.5 36.0 36.5
---- Salinity
2 3 4 5 6
····· Oxygen


Potential Temperature
0 5 10 15 20
34.5 35.0 35.5 36.0 36.5
Salinity


Potential Temperature
0 5 10 15 20
2 3 4 5 6
Oxygen

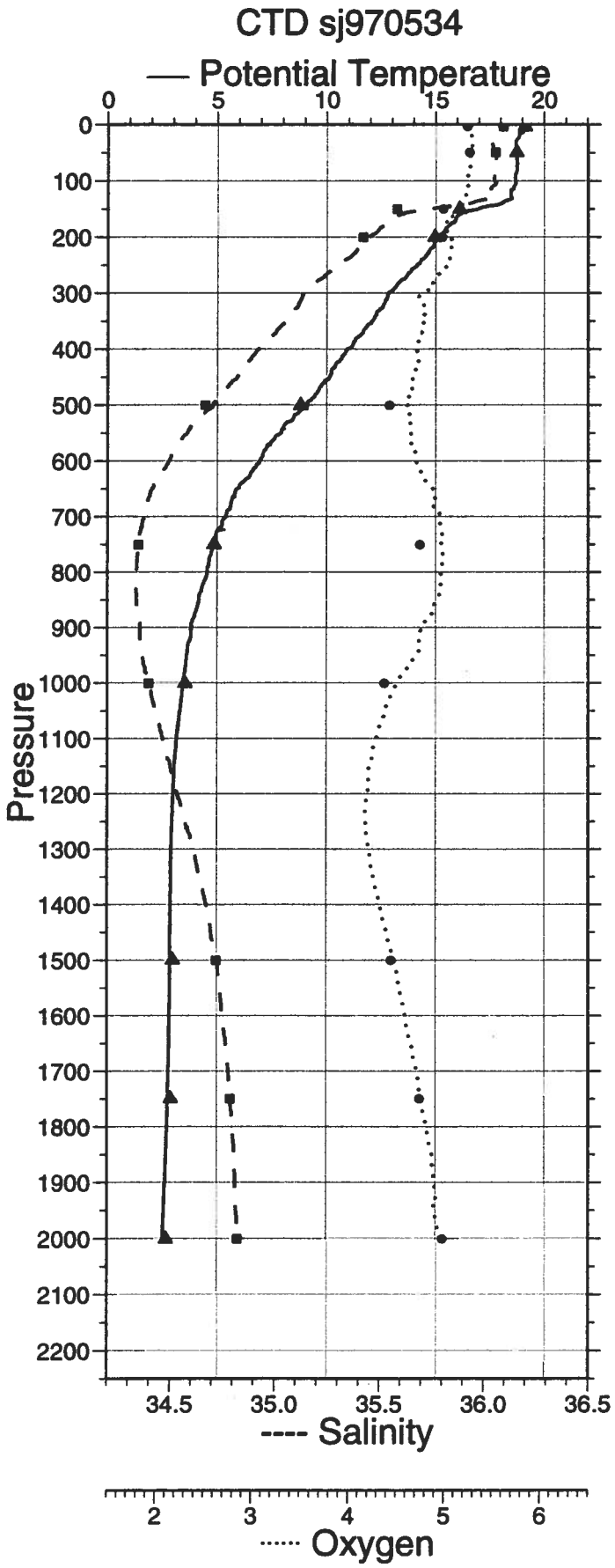

Salinity
34.5 35.0 35.5 36.0 36.5
2 3 4 5 6
Oxygen

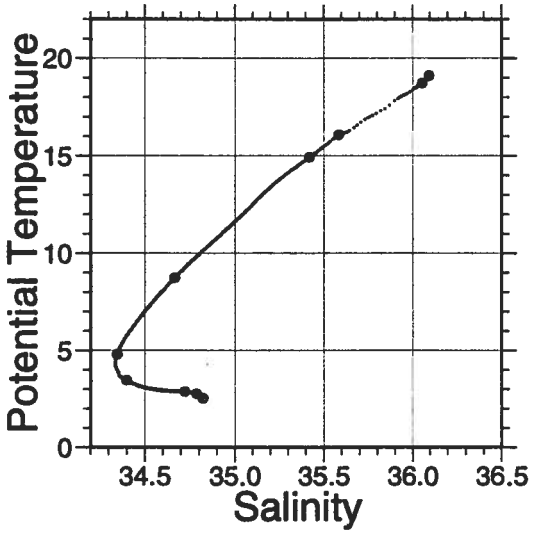
# station 34

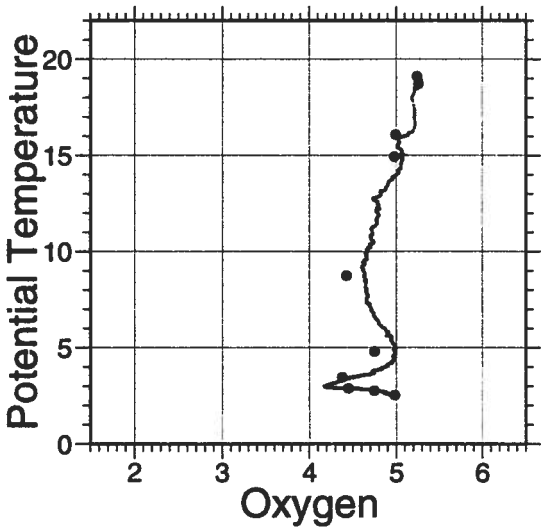
**lat. 27 42.07 S** **97/09/18**
**lon. 7 0.00 W** **20:07:31**

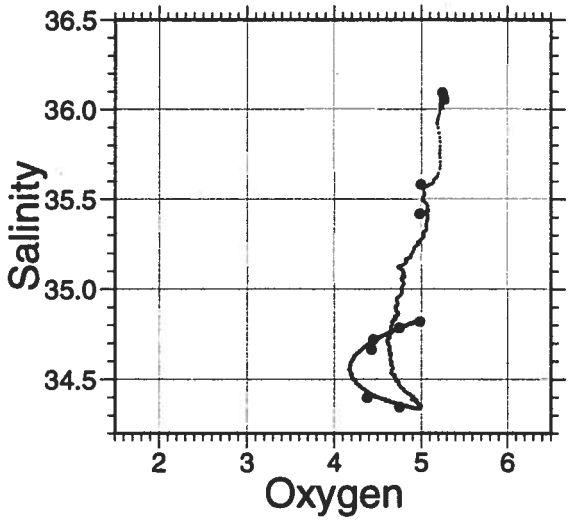
| PR | TE | PT | SA | OX | S0 | HZ |
|---|---|---|---|---|---|---|
| 0 | 19.118 | 19.118 | 36.09 | 5.278 | 25.825 | 0.000 |
| 10 | 19.097 | 19.096 | 36.09 | 5.271 | 25.831 | 0.022 |
| 20 | 18.862 | 18.858 | 36.077 | 5.289 | 25.882 | 0.043 |
| 30 | 18.721 | 18.716 | 36.042 | 5.302 | 25.892 | 0.064 |
| 40 | 18.728 | 18.721 | 36.046 | 5.282 | 25.893 | 0.085 |
| 50 | 18.752 | 18.743 | 36.057 | 5.289 | 25.896 | 0.106 |
| 60 | 18.756 | 18.746 | 36.059 | 5.271 | 25.897 | 0.128 |
| 70 | 18.778 | 18.766 | 36.068 | 5.255 | 25.899 | 0.149 |
| 80 | 18.764 | 18.75 | 36.067 | 5.269 | 25.902 | 0.170 |
| 90 | 18.699 | 18.683 | 36.051 | 5.245 | 25.907 | 0.191 |
| 100 | 18.699 | 18.681 | 36.051 | 5.238 | 25.907 | 0.212 |
| 110 | 18.635 | 18.616 | 36.041 | 5.243 | 25.916 | 0.234 |
| 120 | 18.503 | 18.482 | 36.012 | 5.226 | 25.928 | 0.255 |
| 130 | 18.532 | 18.509 | 36.025 | 5.218 | 25.931 | 0.276 |
| 140 | 18.071 | 18.047 | 35.936 | 5.187 | 25.979 | 0.297 |
| 150 | 16.989 | 16.964 | 35.75 | 5.215 | 26.1 | 0.317 |
| 160 | 16.147 | 16.122 | 35.602 | 5.144 | 26.184 | 0.336 |
| 170 | 15.942 | 15.915 | 35.561 | 5.011 | 26.2 | 0.355 |
| 180 | 15.619 | 15.591 | 35.515 | 5.027 | 26.238 | 0.373 |
| 190 | 15.428 | 15.398 | 35.488 | 5.03 | 26.26 | 0.392 |
| 200 | 15.151 | 15.121 | 35.447 | 5.072 | 26.291 | 0.410 |
| 210 | 15.001 | 14.969 | 35.425 | 5.036 | 26.307 | 0.427 |
| 220 | 14.833 | 14.799 | 35.399 | 5.075 | 26.324 | 0.445 |
| 230 | 14.645 | 14.611 | 35.371 | 5.061 | 26.344 | 0.462 |
| 240 | 14.415 | 14.38 | 35.338 | 5.059 | 26.368 | 0.480 |
| 250 | 14.186 | 14.15 | 35.302 | 5.028 | 26.39 | 0.497 |
| 260 | 13.916 | 13.878 | 35.262 | 4.954 | 26.416 | 0.514 |
| 270 | 13.695 | 13.657 | 35.232 | 4.915 | 26.439 | 0.531 |
| 280 | 13.378 | 13.338 | 35.195 | 4.883 | 26.476 | 0.547 |
| 290 | 13.183 | 13.143 | 35.169 | 4.819 | 26.496 | 0.563 |
| 300 | 12.87 | 12.829 | 35.134 | 4.787 | 26.532 | 0.579 |
| 325 | 12.601 | 12.557 | 35.105 | 4.787 | 26.563 | 0.618 |
| 350 | 12.106 | 12.06 | 35.052 | 4.771 | 26.619 | 0.657 |
| 375 | 11.581 | 11.533 | 34.989 | 4.782 | 26.669 | 0.694 |
| 400 | 10.976 | 10.926 | 34.918 | 4.73 | 26.725 | 0.729 |
| 425 | 10.485 | 10.434 | 34.859 | 4.733 | 26.767 | 0.764 |
| 450 | 10.171 | 10.118 | 34.817 | 4.661 | 26.789 | 0.798 |
| 475 | 9.658 | 9.604 | 34.758 | 4.662 | 26.83 | 0.832 |
| 500 | 9.16 | 9.104 | 34.703 | 4.616 | 26.869 | 0.864 |
| 550 | 7.961 | 7.904 | 34.58 | 4.652 | 26.958 | 0.926 |
| 600 | 6.999 | 6.942 | 34.492 | 4.712 | 27.027 | 0.983 |
| 650 | 5.957 | 5.9 | 34.412 | 4.878 | 27.101 | 1.038 |
| 700 | 5.464 | 5.405 | 34.376 | 4.935 | 27.133 | 1.089 |
| 750 | 4.921 | 4.861 | 34.35 | 4.973 | 27.176 | 1.138 |
| 800 | 4.62 | 4.557 | 34.339 | 4.957 | 27.201 | 1.186 |
| 850 | 4.243 | 4.178 | 34.339 | 4.917 | 27.242 | 1.232 |
| 900 | 3.896 | 3.83 | 34.357 | 4.755 | 27.292 | 1.276 |
| 950 | 3.701 | 3.632 | 34.365 | 4.712 | 27.318 | 1.318 |
| 1000 | 3.541 | 3.469 | 34.4 | 4.509 | 27.362 | 1.359 |
| 1100 | 3.248 | 3.171 | 34.464 | 4.296 | 27.442 | 1.434 |
| 1200 | 3.102 | 3.018 | 34.534 | 4.19 | 27.512 | 1.502 |
| 1300 | 3.02 | 2.929 | 34.613 | 4.217 | 27.583 | 1.565 |
| 1400 | 3 | 2.9 | 34.672 | 4.327 | 27.632 | 1.622 |
| 1500 | 2.992 | 2.884 | 34.724 | 4.48 | 27.675 | 1.676 |
| 1600 | 2.968 | 2.851 | 34.749 | 4.591 | 27.698 | 1.727 |
| 1700 | 2.923 | 2.799 | 34.778 | 4.715 | 27.726 | 1.776 |
| 1800 | 2.871 | 2.738 | 34.798 | 4.815 | 27.748 | 1.824 |
| 1900 | 2.79 | 2.65 | 34.811 | 4.89 | 27.766 | 1.870 |
| 2000 | 2.687 | 2.539 | 34.821 | 4.944 | 27.783 | 1.915 |

| PR | TE | PT | SA | OX | RN |
|---|---|---|---|---|---|
| 3.3 | 19.116 | 19.116 | 36.094 | 5.243 | 14 |
| 49.4 | 18.745 | 18.736 | 36.056 | 5.263 | 13 |
| 150.0 | 16.105 | 16.082 | 35.583 | 4.992 | 11 |
| 200.2 | 14.967 | 14.937 | 35.419 | 4.978 | 10 |
| 500.5 | 8.798 | 8.743 | 34.666 | 4.426 | 8 |
| 750.3 | 4.862 | 4.802 | 34.347 | 4.748 | 7 |
| 1000.5 | 3.544 | 3.472 | 34.398 | 4.376 | 5 |
| 1500.0 | 2.998 | 2.889 | 34.721 | 4.448 | 3 |
| 1749.3 | 2.894 | 2.765 | 34.787 | 4.743 | 2 |
| 2000.9 | 2.686 | 2.539 | 34.821 | 4.983 | 1 |


CTD sj970534
— Potential Temperature
Pressure
---- Salinity
····· Oxygen


Potential Temperature
Salinity


Potential Temperature
Oxygen


Salinity
Oxygen

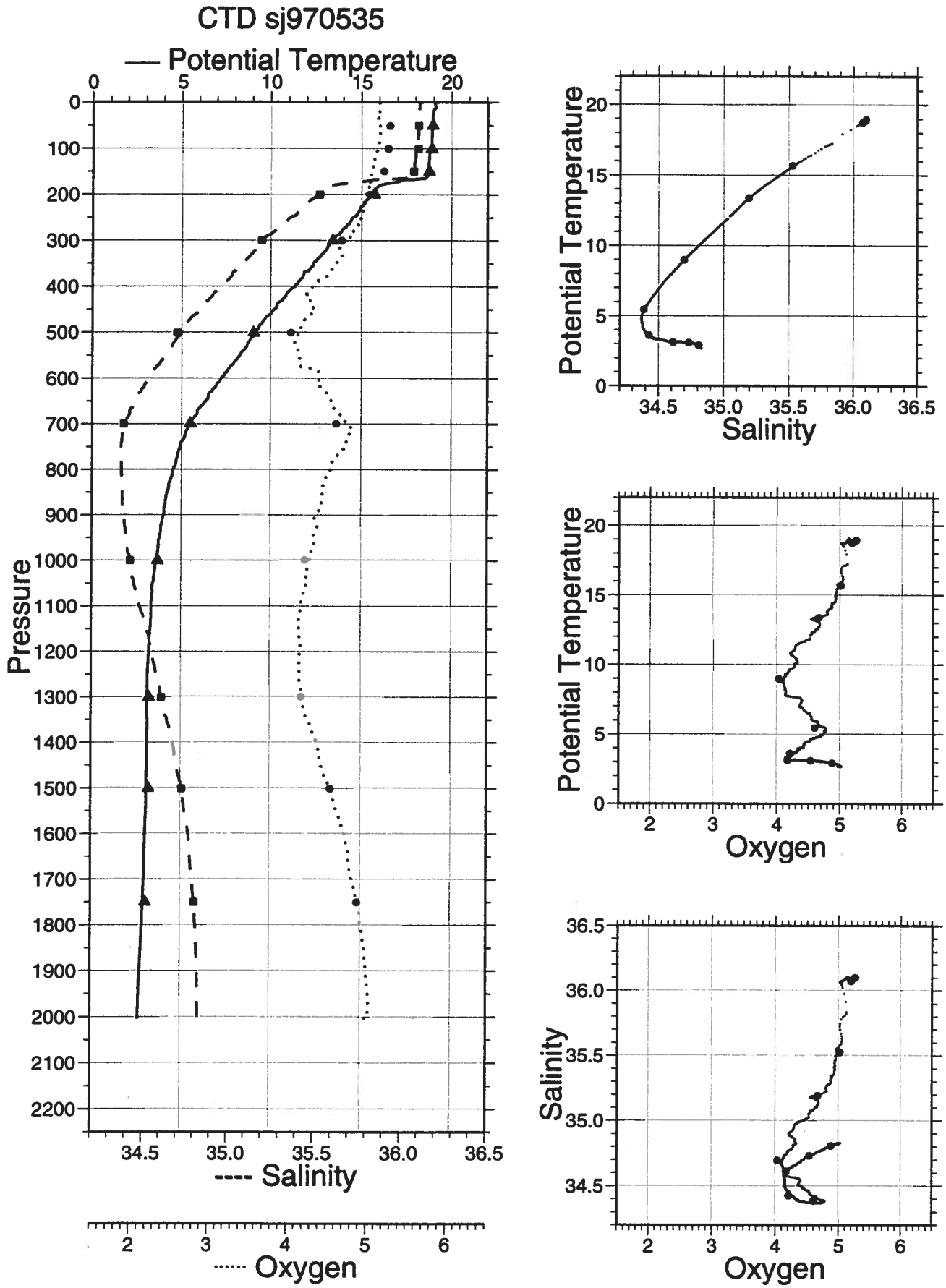
# station 35

**lat. 26 38.28 S**
**lon. 6 59.77 W**

**97/09/19**
**03:03:02**

| PR | TE | PT | SA | OX | S0 | HZ |
|---|---|---|---|---|---|---|
| 0 | 19.089 | 19.089 | 36.103 | 5.135 | 25.843 | 0.000 |
| 10 | 19.108 | 19.106 | 36.103 | 5.138 | 25.838 | 0.022 |
| 20 | 18.992 | 18.989 | 36.1 | 5.136 | 25.866 | 0.043 |
| 30 | 18.964 | 18.958 | 36.099 | 5.15 | 25.873 | 0.064 |
| 40 | 18.954 | 18.946 | 36.098 | 5.156 | 25.876 | 0.086 |
| 50 | 18.938 | 18.929 | 36.097 | 5.142 | 25.879 | 0.107 |
| 60 | 18.931 | 18.92 | 36.097 | 5.149 | 25.882 | 0.128 |
| 70 | 18.926 | 18.913 | 36.097 | 5.139 | 25.883 | 0.150 |
| 80 | 18.917 | 18.903 | 36.095 | 5.131 | 25.885 | 0.171 |
| 90 | 18.91 | 18.894 | 36.096 | 5.117 | 25.888 | 0.192 |
| 100 | 18.883 | 18.865 | 36.1 | 5.114 | 25.898 | 0.214 |
| 110 | 18.789 | 18.77 | 36.083 | 5.099 | 25.909 | 0.235 |
| 120 | 18.782 | 18.76 | 36.082 | 5.089 | 25.911 | 0.256 |
| 130 | 18.765 | 18.741 | 36.078 | 5.068 | 25.913 | 0.277 |
| 140 | 18.75 | 18.726 | 36.073 | 5.059 | 25.913 | 0.299 |
| 150 | 18.735 | 18.709 | 36.069 | 5.031 | 25.914 | 0.320 |
| 160 | 18.674 | 18.645 | 36.054 | 5.044 | 25.919 | 0.342 |
| 170 | 17.18 | 17.152 | 35.807 | 5.098 | 26.099 | 0.362 |
| 180 | 16.04 | 16.011 | 35.597 | 5.046 | 26.205 | 0.381 |
| 190 | 15.807 | 15.778 | 35.552 | 4.959 | 26.224 | 0.400 |
| 200 | 15.574 | 15.543 | 35.517 | 4.969 | 26.25 | 0.418 |
| 210 | 15.366 | 15.333 | 35.482 | 4.955 | 26.27 | 0.436 |
| 220 | 15.205 | 15.171 | 35.456 | 4.94 | 26.287 | 0.454 |
| 230 | 14.957 | 14.922 | 35.419 | 4.944 | 26.313 | 0.472 |
| 240 | 14.821 | 14.784 | 35.398 | 4.94 | 26.327 | 0.490 |
| 250 | 14.556 | 14.519 | 35.358 | 4.926 | 26.354 | 0.507 |
| 260 | 14.401 | 14.363 | 35.333 | 4.895 | 26.368 | 0.525 |
| 270 | 14.193 | 14.153 | 35.301 | 4.877 | 26.388 | 0.542 |
| 280 | 13.95 | 13.909 | 35.266 | 4.803 | 26.413 | 0.559 |
| 290 | 13.636 | 13.595 | 35.223 | 4.808 | 26.445 | 0.576 |
| 300 | 13.379 | 13.337 | 35.187 | 4.565 | 26.47 | 0.592 |
| 325 | 12.992 | 12.948 | 35.145 | 4.677 | 26.517 | 0.633 |
| 350 | 12.415 | 12.368 | 35.081 | 4.585 | 26.581 | 0.672 |
| 375 | 11.86 | 11.811 | 35.019 | 4.5 | 26.64 | 0.710 |
| 400 | 11.398 | 11.347 | 34.965 | 4.297 | 26.685 | 0.747 |
| 425 | 10.766 | 10.714 | 34.891 | 4.221 | 26.743 | 0.782 |
| 450 | 10.257 | 10.203 | 34.831 | 4.326 | 26.785 | 0.817 |
| 475 | 9.636 | 9.582 | 34.761 | 4.192 | 26.836 | 0.850 |
| 500 | 9.213 | 9.158 | 34.716 | 4.131 | 26.871 | 0.882 |
| 550 | 8.338 | 8.28 | 34.627 | 4.138 | 26.939 | 0.944 |
| 600 | 7.315 | 7.256 | 34.53 | 4.382 | 27.013 | 1.003 |
| 650 | 6.417 | 6.358 | 34.454 | 4.532 | 27.075 | 1.059 |
| 700 | 5.512 | 5.453 | 34.388 | 4.77 | 27.137 | 1.111 |
| 750 | 4.988 | 4.927 | 34.369 | 4.702 | 27.183 | 1.160 |
| 800 | 4.588 | 4.525 | 34.372 | 4.531 | 27.231 | 1.207 |
| 850 | 4.261 | 4.197 | 34.377 | 4.422 | 27.27 | 1.252 |
| 900 | 4.076 | 4.009 | 34.39 | 4.355 | 27.3 | 1.295 |
| 950 | 3.857 | 3.787 | 34.4 | 4.32 | 27.331 | 1.337 |
| 1000 | 3.677 | 3.604 | 34.426 | 4.267 | 27.37 | 1.377 |
| 1100 | 3.425 | 3.346 | 34.48 | 4.164 | 27.438 | 1.452 |
| 1200 | 3.315 | 3.228 | 34.553 | 4.148 | 27.507 | 1.522 |
| 1300 | 3.234 | 3.14 | 34.611 | 4.177 | 27.562 | 1.586 |
| 1400 | 3.241 | 3.138 | 34.675 | 4.361 | 27.613 | 1.646 |
| 1500 | 3.22 | 3.11 | 34.731 | 4.53 | 27.66 | 1.702 |
| 1600 | 3.157 | 3.039 | 34.771 | 4.707 | 27.699 | 1.755 |
| 1700 | 3.101 | 2.974 | 34.795 | 4.803 | 27.724 | 1.805 |
| 1800 | 3.012 | 2.878 | 34.814 | 4.914 | 27.748 | 1.853 |
| 1900 | 2.892 | 2.75 | 34.825 | 4.987 | 27.768 | 1.900 |
| 2000 | 2.811 | 2.661 | 34.829 | 5.017 | 27.779 | 1.946 |

| PR | TE | PT | SA | OX | RN |
|---|---|---|---|---|---|
| 50.6 | 18.954 | 18.945 | 36.099 | 5.263 | 13 |
| 100.8 | 18.894 | 18.876 | 36.097 | 5.245 | 12 |
| 149.5 | 18.752 | 18.725 | 36.072 | 5.193 | 11 |
| 199.8 | 15.720 | 15.689 | 35.527 | 5.016 | 10 |
| 300.1 | 13.424 | 13.382 | 35.193 | 4.663 | 9 |
| 500.7 | 9.046 | 8.990 | 34.696 | 4.029 | 8 |
| 699.4 | 5.503 | 5.444 | 34.385 | 4.598 | 7 |
| 1000.0 | 3.691 | 3.618 | 34.425 | 4.208 | 5 |
| 1300.4 | 3.234 | 3.140 | 34.611 | 4.166 | 4 |
| 1500.6 | 3.217 | 3.106 | 34.732 | 4.535 | 3 |
| 1749.8 | 3.053 | 2.922 | 34.808 | 4.875 | 2 |

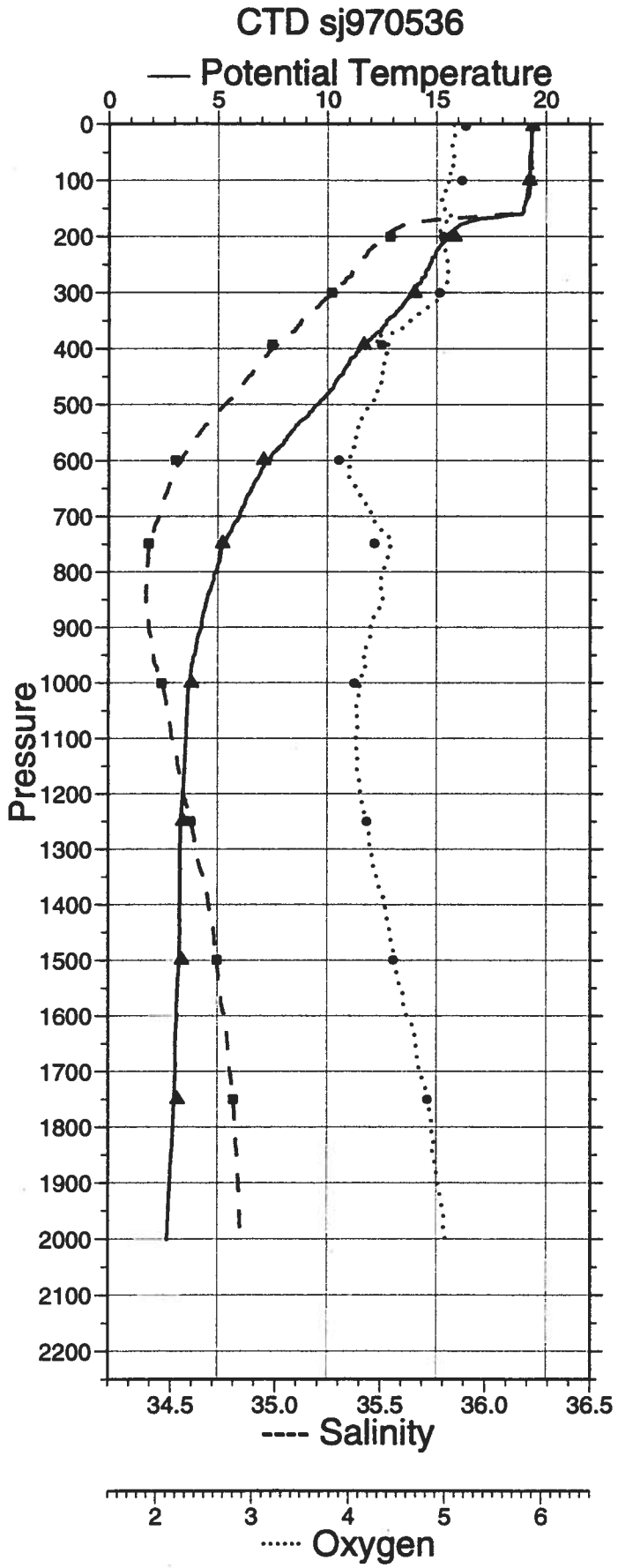

CTD sj970535
— Potential Temperature
Pressure
---- Salinity
····· Oxygen
Potential Temperature
Salinity
Potential Temperature
Oxygen
Salinity
Oxygen

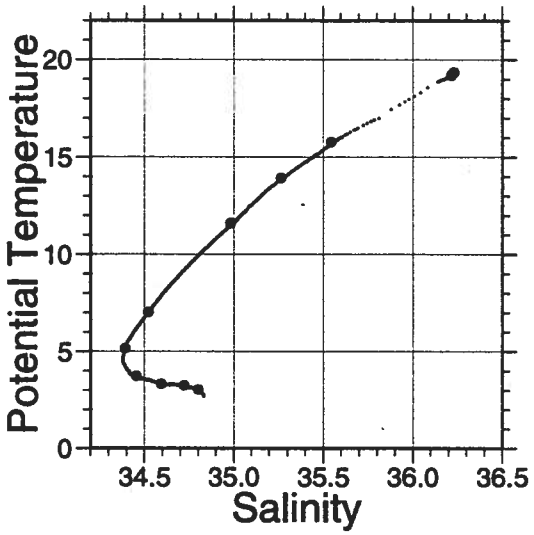
# station 36

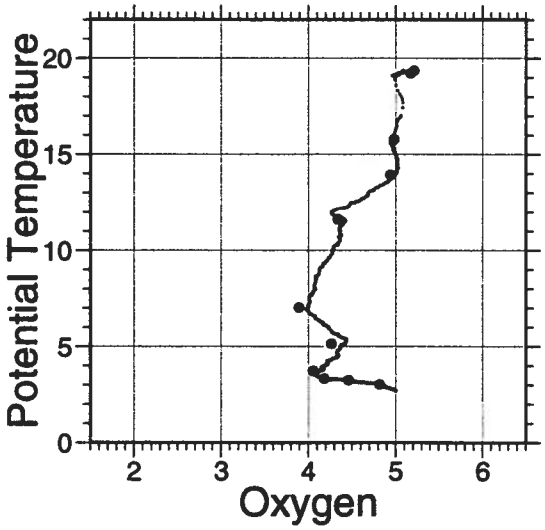
**lat. 25 30.12 S** **97/09/19**
**lon. 7 0.00 W** **10:23:32**

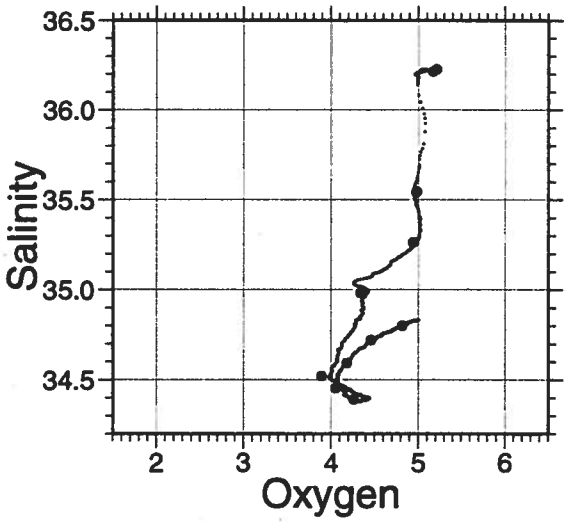
| PR | TE | PT | SA | OX | S0 | HZ |
|---|---|---|---|---|---|---|
| 0 | 19.36 | 19.36 | 36.226 | 5.087 | 25.867 | 0.000 |
| 10 | 19.34 | 19.338 | 36.225 | 5.091 | 25.872 | 0.021 |
| 20 | 19.339 | 19.336 | 36.224 | 5.097 | 25.872 | 0.042 |
| 30 | 19.337 | 19.331 | 36.225 | 5.09 | 25.873 | 0.064 |
| 40 | 19.335 | 19.328 | 36.224 | 5.069 | 25.874 | 0.085 |
| 50 | 19.3 | 19.291 | 36.22 | 5.08 | 25.88 | 0.106 |
| 60 | 19.27 | 19.259 | 36.219 | 5.074 | 25.888 | 0.128 |
| 70 | 19.271 | 19.258 | 36.221 | 5.058 | 25.889 | 0.149 |
| 80 | 19.275 | 19.26 | 36.223 | 5.069 | 25.89 | 0.170 |
| 90 | 19.274 | 19.257 | 36.226 | 5.058 | 25.893 | 0.192 |
| 100 | 19.249 | 19.231 | 36.223 | 5.024 | 25.898 | 0.213 |
| 110 | 19.235 | 19.215 | 36.22 | 5.037 | 25.9 | 0.234 |
| 120 | 19.166 | 19.145 | 36.21 | 4.99 | 25.91 | 0.256 |
| 130 | 19.143 | 19.12 | 36.204 | 4.973 | 25.912 | 0.277 |
| 140 | 19.083 | 19.057 | 36.187 | 5.003 | 25.915 | 0.298 |
| 150 | 18.989 | 18.962 | 36.16 | 4.994 | 25.919 | 0.320 |
| 160 | 18.915 | 18.887 | 36.141 | 4.993 | 25.924 | 0.341 |
| 170 | 16.865 | 16.837 | 35.767 | 5.031 | 26.143 | 0.361 |
| 180 | 16.053 | 16.025 | 35.603 | 4.981 | 26.207 | 0.380 |
| 190 | 15.742 | 15.713 | 35.552 | 4.947 | 26.239 | 0.399 |
| 200 | 15.523 | 15.492 | 35.519 | 4.973 | 26.263 | 0.417 |
| 210 | 15.353 | 15.32 | 35.493 | 4.978 | 26.282 | 0.435 |
| 220 | 15.142 | 15.108 | 35.458 | 4.989 | 26.302 | 0.453 |
| 230 | 15.001 | 14.966 | 35.435 | 5.005 | 26.316 | 0.471 |
| 240 | 14.817 | 14.781 | 35.407 | 5.007 | 26.335 | 0.488 |
| 250 | 14.72 | 14.683 | 35.391 | 5.022 | 26.344 | 0.506 |
| 260 | 14.564 | 14.525 | 35.367 | 5.021 | 26.359 | 0.523 |
| 270 | 14.511 | 14.471 | 35.356 | 5.014 | 26.363 | 0.541 |
| 280 | 14.325 | 14.284 | 35.328 | 5.019 | 26.381 | 0.558 |
| 290 | 14.067 | 14.025 | 35.29 | 5.01 | 26.407 | 0.575 |
| 300 | 13.915 | 13.872 | 35.266 | 4.959 | 26.42 | 0.592 |
| 325 | 13.444 | 13.398 | 35.2 | 4.836 | 26.468 | 0.634 |
| 350 | 12.762 | 12.714 | 35.12 | 4.639 | 26.544 | 0.674 |
| 375 | 12.245 | 12.195 | 35.062 | 4.374 | 26.6 | 0.713 |
| 400 | 11.533 | 11.482 | 34.982 | 4.412 | 26.674 | 0.750 |
| 425 | 11.041 | 10.988 | 34.922 | 4.365 | 26.717 | 0.786 |
| 450 | 10.575 | 10.52 | 34.868 | 4.366 | 26.759 | 0.821 |
| 475 | 10.171 | 10.114 | 34.822 | 4.291 | 26.794 | 0.856 |
| 500 | 9.587 | 9.529 | 34.757 | 4.222 | 26.842 | 0.889 |
| 550 | 8.37 | 8.312 | 34.635 | 4.081 | 26.94 | 0.952 |
| 600 | 7.392 | 7.332 | 34.548 | 4.019 | 27.016 | 1.011 |
| 650 | 6.602 | 6.542 | 34.484 | 4.079 | 27.075 | 1.066 |
| 700 | 6.067 | 6.005 | 34.441 | 4.232 | 27.111 | 1.119 |
| 750 | 5.345 | 5.282 | 34.396 | 4.442 | 27.164 | 1.170 |
| 800 | 4.965 | 4.899 | 34.386 | 4.368 | 27.2 | 1.218 |
| 850 | 4.563 | 4.496 | 34.38 | 4.339 | 27.24 | 1.265 |
| 900 | 4.321 | 4.251 | 34.392 | 4.228 | 27.276 | 1.310 |
| 950 | 4.001 | 3.929 | 34.416 | 4.15 | 27.329 | 1.352 |
| 1000 | 3.799 | 3.725 | 34.456 | 4.126 | 27.382 | 1.392 |
| 1100 | 3.64 | 3.559 | 34.507 | 4.072 | 27.439 | 1.468 |
| 1200 | 3.51 | 3.422 | 34.559 | 4.117 | 27.493 | 1.538 |
| 1300 | 3.392 | 3.296 | 34.616 | 4.232 | 27.551 | 1.604 |
| 1400 | 3.385 | 3.281 | 34.681 | 4.372 | 27.604 | 1.665 |
| 1500 | 3.375 | 3.262 | 34.719 | 4.474 | 27.636 | 1.723 |
| 1600 | 3.274 | 3.154 | 34.758 | 4.604 | 27.678 | 1.779 |
| 1700 | 3.217 | 3.089 | 34.785 | 4.735 | 27.705 | 1.831 |
| 1800 | 3.12 | 2.984 | 34.807 | 4.856 | 27.733 | 1.882 |
| 1900 | 2.974 | 2.832 | 34.824 | 4.924 | 27.76 | 1.930 |
| 2000 | 2.844 | 2.694 | 34.834 | 5.002 | 27.78 | 1.976 |

| PR | TE | PT | SA | OX | RN |
|---|---|---|---|---|---|
| 3.5 | 19.374 | 19.373 | 36.227 | 5.211 | 14 |
| 99.9 | 19.231 | 19.213 | 36.214 | 5.171 | 12 |
| 200.1 | 15.819 | 15.787 | 35.545 | 4.981 | 11 |
| 300.2 | 13.980 | 13.936 | 35.265 | 4.940 | 10 |
| 392.8 | 11.663 | 11.612 | 34.982 | 4.340 | 9 |
| 599.1 | 7.095 | 7.037 | 34.521 | 3.891 | 8 |
| 748.5 | 5.224 | 5.162 | 34.391 | 4.264 | 7 |
| 1000.1 | 3.802 | 3.728 | 34.454 | 4.054 | 5 |
| 1249.3 | 3.424 | 3.333 | 34.593 | 4.182 | 4 |
| 1499.3 | 3.363 | 3.251 | 34.721 | 4.461 | 3 |
| 1750.0 | 3.171 | 3.039 | 34.800 | 4.815 | 2 |


CTD sj970536
— Potential Temperature
0 5 10 15 20
Pressure
0 100 200 300 400 500 600 700 800 900 1000 1100 1200 1300 1400 1500 1600 1700 1800 1900 2000 2100 2200
34.5 35.0 35.5 36.0 36.5
---- Salinity
2 3 4 5 6
····· Oxygen


Potential Temperature
0 5 10 15 20
34.5 35.0 35.5 36.0 36.5
Salinity


Potential Temperature
0 5 10 15 20
2 3 4 5 6
Oxygen

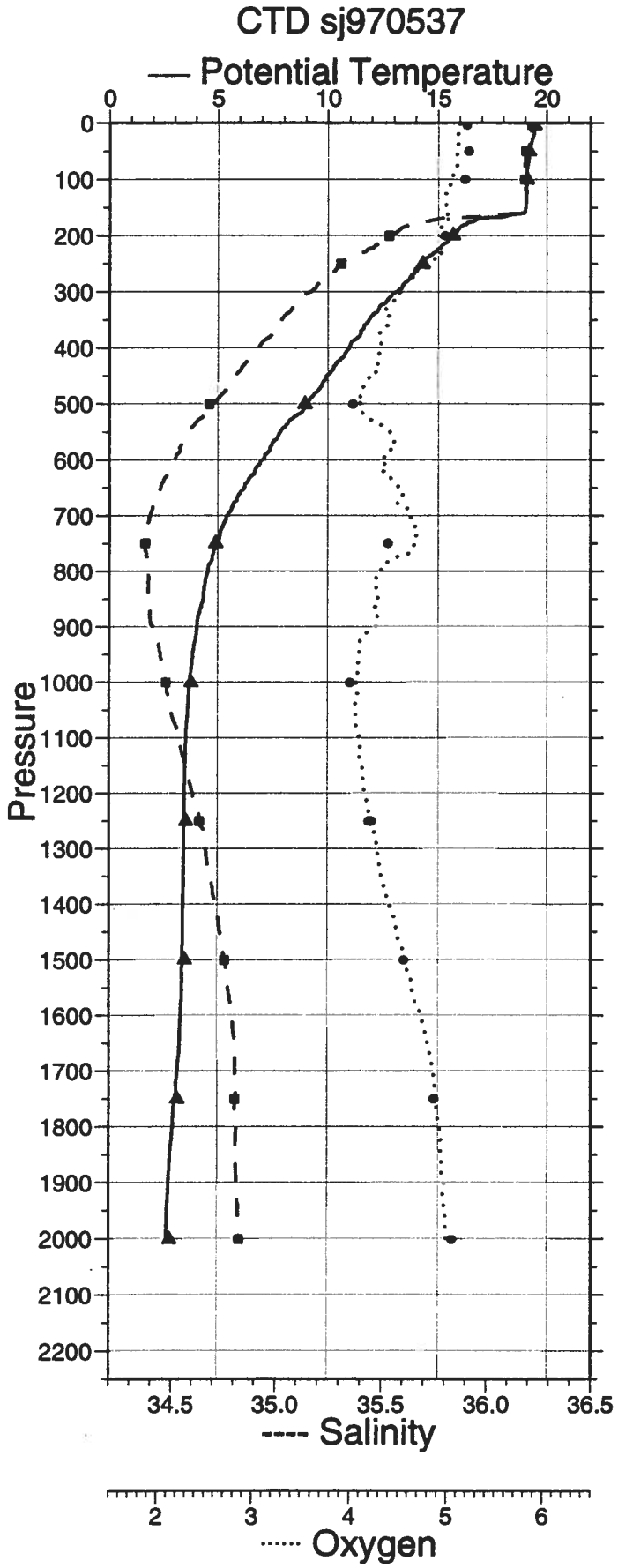

Salinity
34.5 35.0 35.5 36.0 36.5
2 3 4 5 6
Oxygen

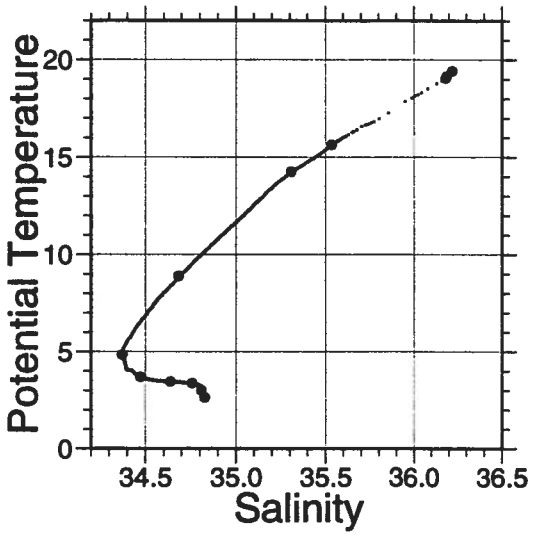
# station 37

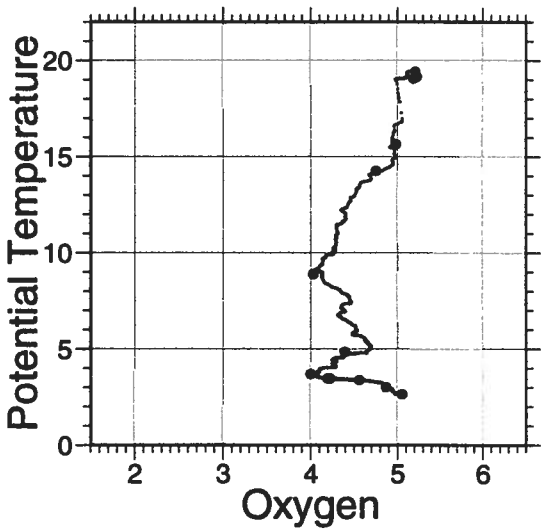
**lat. 24 24.07 S** **97/09/19**
**lon. 7 0.00 W** **17:25:22**

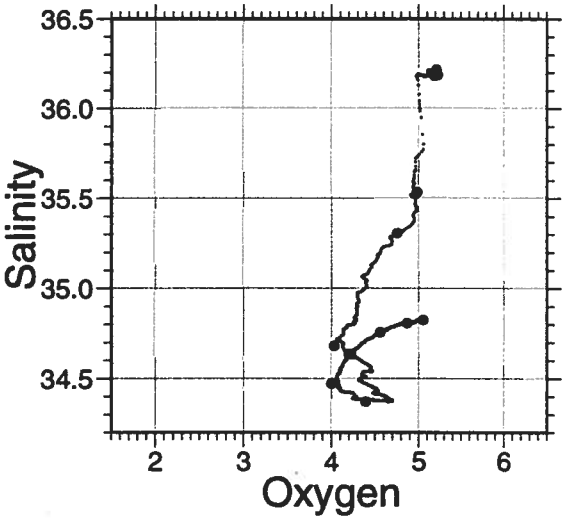
| PR | TE | PT | SA | OX | S0 | HZ |
|---|---|---|---|---|---|---|
| 0 | 19.433 | 19.433 | 36.216 | 5.132 | 25.84 | 0.000 |
| 10 | 19.441 | 19.439 | 36.215 | 5.127 | 25.838 | 0.022 |
| 20 | 19.41 | 19.407 | 36.214 | 5.115 | 25.845 | 0.043 |
| 30 | 19.333 | 19.328 | 36.206 | 5.125 | 25.86 | 0.065 |
| 40 | 19.243 | 19.236 | 36.194 | 5.123 | 25.874 | 0.086 |
| 50 | 19.193 | 19.184 | 36.188 | 5.124 | 25.883 | 0.107 |
| 60 | 19.184 | 19.173 | 36.187 | 5.108 | 25.885 | 0.128 |
| 70 | 19.151 | 19.139 | 36.186 | 5.103 | 25.894 | 0.150 |
| 80 | 19.117 | 19.102 | 36.182 | 5.088 | 25.9 | 0.171 |
| 90 | 19.088 | 19.072 | 36.18 | 5.064 | 25.906 | 0.192 |
| 100 | 19.083 | 19.065 | 36.18 | 5.063 | 25.908 | 0.213 |
| 110 | 19.098 | 19.078 | 36.188 | 5.033 | 25.911 | 0.235 |
| 120 | 19.086 | 19.065 | 36.187 | 5.03 | 25.913 | 0.256 |
| 130 | 19.084 | 19.061 | 36.19 | 4.987 | 25.917 | 0.277 |
| 140 | 19.074 | 19.049 | 36.187 | 4.985 | 25.917 | 0.299 |
| 150 | 19.052 | 19.025 | 36.183 | 4.977 | 25.92 | 0.320 |
| 160 | 18.956 | 18.928 | 36.161 | 4.989 | 25.929 | 0.341 |
| 170 | 16.867 | 16.839 | 35.774 | 5.054 | 26.148 | 0.361 |
| 180 | 16.317 | 16.288 | 35.65 | 4.954 | 26.182 | 0.380 |
| 190 | 15.932 | 15.902 | 35.582 | 4.953 | 26.219 | 0.399 |
| 200 | 15.681 | 15.65 | 35.541 | 4.946 | 26.245 | 0.417 |
| 210 | 15.483 | 15.451 | 35.511 | 4.934 | 26.267 | 0.436 |
| 220 | 15.171 | 15.137 | 35.462 | 4.962 | 26.299 | 0.454 |
| 230 | 14.864 | 14.829 | 35.411 | 4.939 | 26.327 | 0.471 |
| 240 | 14.497 | 14.461 | 35.349 | 4.91 | 26.359 | 0.489 |
| 250 | 14.216 | 14.179 | 35.301 | 4.754 | 26.383 | 0.506 |
| 260 | 14.08 | 14.042 | 35.281 | 4.67 | 26.396 | 0.523 |
| 270 | 13.851 | 13.812 | 35.248 | 4.695 | 26.419 | 0.540 |
| 280 | 13.648 | 13.608 | 35.22 | 4.572 | 26.44 | 0.557 |
| 290 | 13.413 | 13.372 | 35.191 | 4.536 | 26.466 | 0.573 |
| 300 | 13.135 | 13.094 | 35.161 | 4.519 | 26.499 | 0.590 |
| 325 | 12.392 | 12.349 | 35.081 | 4.413 | 26.585 | 0.629 |
| 350 | 11.902 | 11.856 | 35.024 | 4.398 | 26.636 | 0.667 |
| 375 | 11.519 | 11.471 | 34.978 | 4.296 | 26.672 | 0.703 |
| 400 | 10.999 | 10.949 | 34.917 | 4.292 | 26.721 | 0.739 |
| 425 | 10.482 | 10.431 | 34.857 | 4.293 | 26.766 | 0.774 |
| 450 | 9.993 | 9.94 | 34.803 | 4.261 | 26.809 | 0.808 |
| 475 | 9.642 | 9.587 | 34.762 | 4.142 | 26.836 | 0.841 |
| 500 | 9.104 | 9.049 | 34.705 | 4.106 | 26.88 | 0.873 |
| 550 | 7.887 | 7.831 | 34.58 | 4.412 | 26.969 | 0.934 |
| 600 | 7.084 | 7.027 | 34.512 | 4.388 | 27.031 | 0.992 |
| 650 | 6.271 | 6.212 | 34.446 | 4.509 | 27.088 | 1.046 |
| 700 | 5.495 | 5.436 | 34.395 | 4.627 | 27.144 | 1.098 |
| 750 | 5.022 | 4.961 | 34.374 | 4.672 | 27.184 | 1.147 |
| 800 | 4.605 | 4.542 | 34.386 | 4.29 | 27.24 | 1.194 |
| 850 | 4.4 | 4.334 | 34.389 | 4.288 | 27.265 | 1.238 |
| 900 | 4.117 | 4.049 | 34.409 | 4.268 | 27.311 | 1.282 |
| 950 | 3.929 | 3.858 | 34.444 | 4.097 | 27.359 | 1.323 |
| 1000 | 3.776 | 3.702 | 34.472 | 4.064 | 27.397 | 1.362 |
| 1100 | 3.63 | 3.549 | 34.533 | 4.092 | 27.46 | 1.435 |
| 1200 | 3.564 | 3.475 | 34.603 | 4.159 | 27.523 | 1.503 |
| 1300 | 3.543 | 3.446 | 34.667 | 4.291 | 27.577 | 1.567 |
| 1400 | 3.521 | 3.416 | 34.713 | 4.406 | 27.617 | 1.627 |
| 1500 | 3.489 | 3.375 | 34.756 | 4.565 | 27.655 | 1.684 |
| 1600 | 3.431 | 3.309 | 34.791 | 4.723 | 27.689 | 1.738 |
| 1700 | 3.279 | 3.15 | 34.809 | 4.857 | 27.719 | 1.790 |
| 1800 | 3.074 | 2.938 | 34.814 | 4.921 | 27.742 | 1.840 |
| 1900 | 2.879 | 2.738 | 34.815 | 4.97 | 27.761 | 1.887 |
| 2000 | 2.795 | 2.646 | 34.826 | 4.994 | 27.778 | 1.933 |
| 2005 | 2.79 | 2.64 | 34.826 | 4.975 | 27.779 | 1.935 |

| PR | TE | PT | SA | OX | RN |
|---|---|---|---|---|---|
| 3.5 | 19.426 | 19.425 | 36.218 | 5.209 | 17 |
| 49.6 | 19.178 | 19.169 | 36.188 | 5.225 | 16 |
| 100.1 | 19.087 | 19.069 | 36.182 | 5.187 | 15 |
| 199.8 | 15.676 | 15.645 | 35.535 | 4.981 | 13 |
| 250.1 | 14.300 | 14.263 | 35.307 | 4.752 | 11 |
| 500.2 | 8.960 | 8.905 | 34.682 | 4.029 | 10 |
| 749.7 | 4.910 | 4.849 | 34.372 | 4.392 | 8 |
| 1000.3 | 3.779 | 3.705 | 34.473 | 4.000 | 7 |
| 1250.1 | 3.554 | 3.461 | 34.636 | 4.195 | 5 |
| 1250.2 | 3.554 | 3.461 | 34.636 | 4.222 | 4 |
| 1500.1 | 3.491 | 3.378 | 34.758 | 4.558 | 3 |
| 1749.9 | 3.143 | 3.011 | 34.808 | 4.867 | 2 |
| 2001.3 | 2.794 | 2.645 | 34.826 | 5.052 | 1 |


CTD sj970537
— Potential Temperature
0 5 10 15 20
Pressure
0 100 200 300 400 500 600 700 800 900 1000 1100 1200 1300 1400 1500 1600 1700 1800 1900 2000 2100 2200
34.5 35.0 35.5 36.0 36.5
---- Salinity
2 3 4 5 6
····· Oxygen


Potential Temperature
0 5 10 15 20
34.5 35.0 35.5 36.0 36.5
Salinity


Potential Temperature
0 5 10 15 20
2 3 4 5 6
Oxygen

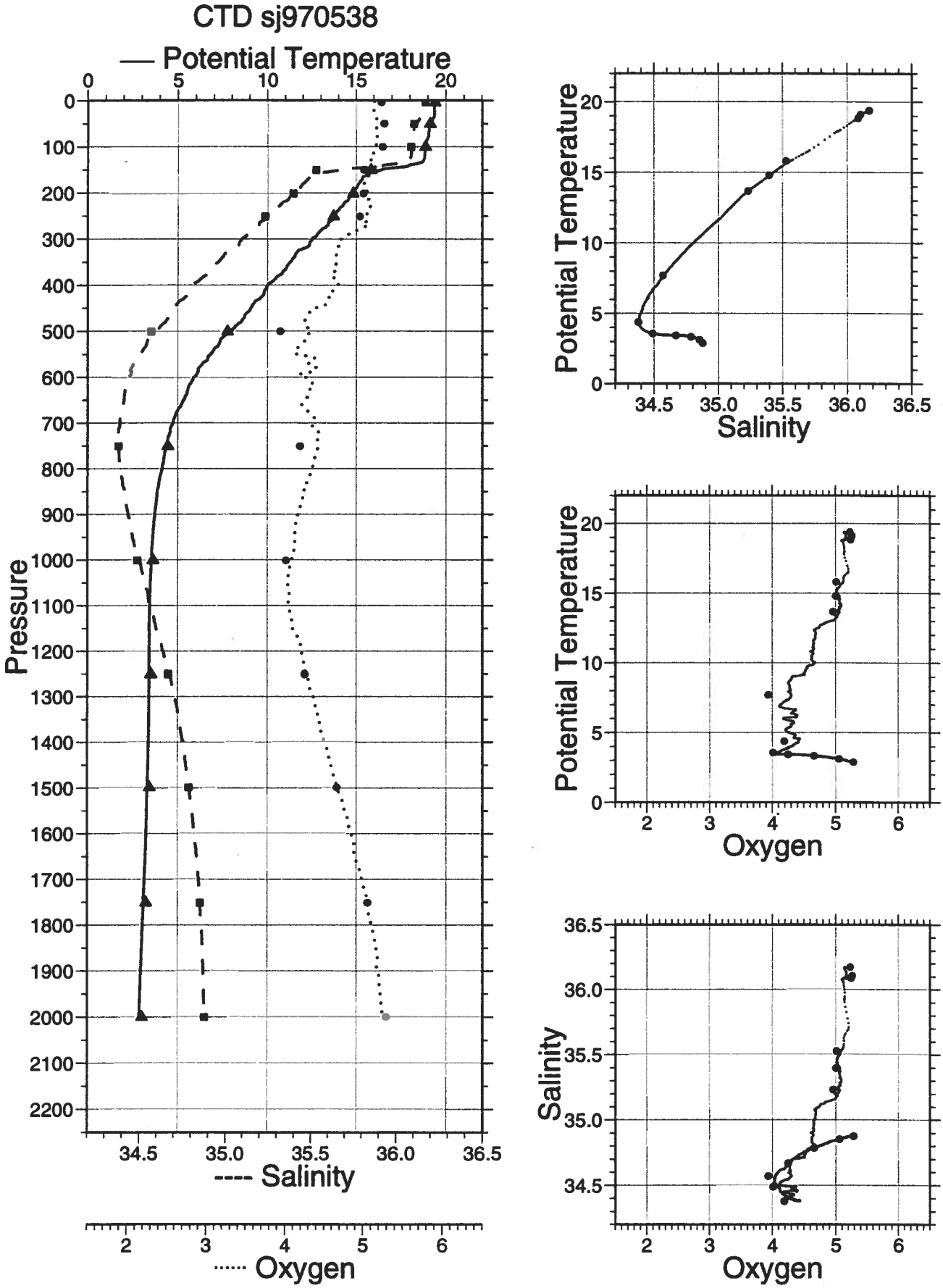

Salinity
34.5 35.0 35.5 36.0 36.5
2 3 4 5 6
Oxygen

# station 38

**lat. 23 17.93 S** **97/09/20**
**lon. 7 0.00 W** **00:37:35**

| PR | TE | PT | SA | OX | S0 | HZ |
|---|---|---|---|---|---|---|
| 0 | 19.386 | 19.386 | 36.168 | 5.145 | 25.816 | 0.000 |
| 10 | 19.378 | 19.376 | 36.164 | 5.144 | 25.815 | 0.022 |
| 20 | 19.378 | 19.374 | 36.165 | 5.137 | 25.816 | 0.044 |
| 30 | 19.381 | 19.375 | 36.166 | 5.147 | 25.817 | 0.065 |
| 40 | 19.263 | 19.256 | 36.137 | 5.169 | 25.826 | 0.087 |
| 50 | 19.171 | 19.162 | 36.117 | 5.173 | 25.835 | 0.109 |
| 60 | 19.094 | 19.083 | 36.104 | 5.171 | 25.845 | 0.131 |
| 70 | 19.07 | 19.058 | 36.104 | 5.166 | 25.852 | 0.152 |
| 80 | 19.02 | 19.005 | 36.102 | 5.178 | 25.863 | 0.174 |
| 90 | 18.929 | 18.913 | 36.092 | 5.155 | 25.88 | 0.195 |
| 100 | 18.883 | 18.865 | 36.088 | 5.174 | 25.889 | 0.217 |
| 110 | 18.864 | 18.844 | 36.09 | 5.151 | 25.896 | 0.238 |
| 120 | 18.849 | 18.827 | 36.087 | 5.136 | 25.898 | 0.260 |
| 130 | 18.769 | 18.746 | 36.07 | 5.107 | 25.905 | 0.281 |
| 140 | 17.971 | 17.947 | 35.934 | 5.141 | 26.002 | 0.302 |
| 150 | 16.441 | 16.417 | 35.682 | 5.18 | 26.177 | 0.322 |
| 160 | 15.709 | 15.684 | 35.538 | 5.096 | 26.235 | 0.340 |
| 170 | 15.382 | 15.356 | 35.482 | 5.029 | 26.265 | 0.358 |
| 180 | 15.178 | 15.151 | 35.454 | 5.017 | 26.29 | 0.376 |
| 190 | 14.992 | 14.963 | 35.428 | 5.034 | 26.311 | 0.394 |
| 200 | 14.853 | 14.823 | 35.405 | 5.058 | 26.324 | 0.412 |
| 210 | 14.635 | 14.603 | 35.374 | 5.065 | 26.348 | 0.429 |
| 220 | 14.385 | 14.352 | 35.337 | 5.071 | 26.373 | 0.446 |
| 230 | 14.174 | 14.141 | 35.302 | 5.089 | 26.392 | 0.463 |
| 240 | 13.966 | 13.932 | 35.271 | 5.073 | 26.412 | 0.480 |
| 250 | 13.705 | 13.669 | 35.234 | 5.039 | 26.438 | 0.497 |
| 260 | 13.604 | 13.566 | 35.217 | 5.053 | 26.446 | 0.513 |
| 270 | 13.451 | 13.413 | 35.195 | 5.014 | 26.461 | 0.530 |
| 280 | 13.066 | 13.027 | 35.153 | 4.941 | 26.507 | 0.546 |
| 290 | 12.822 | 12.782 | 35.126 | 4.805 | 26.535 | 0.562 |
| 300 | 12.537 | 12.496 | 35.095 | 4.714 | 26.567 | 0.577 |
| 325 | 11.748 | 11.706 | 35.01 | 4.675 | 26.653 | 0.615 |
| 350 | 11.308 | 11.264 | 34.954 | 4.653 | 26.692 | 0.651 |
| 375 | 10.851 | 10.804 | 34.898 | 4.619 | 26.732 | 0.686 |
| 400 | 10.065 | 10.018 | 34.807 | 4.669 | 26.799 | 0.720 |
| 425 | 9.722 | 9.673 | 34.767 | 4.557 | 26.826 | 0.753 |
| 450 | 9.104 | 9.054 | 34.704 | 4.37 | 26.878 | 0.786 |
| 475 | 8.644 | 8.593 | 34.658 | 4.255 | 26.915 | 0.817 |
| 500 | 8 | 7.949 | 34.597 | 4.257 | 26.965 | 0.847 |
| 550 | 6.87 | 6.818 | 34.499 | 4.15 | 27.049 | 0.903 |
| 600 | 5.936 | 5.884 | 34.437 | 4.247 | 27.123 | 0.956 |
| 650 | 5.396 | 5.342 | 34.412 | 4.243 | 27.169 | 1.006 |
| 700 | 4.794 | 4.738 | 34.388 | 4.355 | 27.22 | 1.053 |
| 750 | 4.417 | 4.36 | 34.38 | 4.419 | 27.255 | 1.098 |
| 800 | 4.199 | 4.138 | 34.388 | 4.342 | 27.285 | 1.141 |
| 850 | 3.927 | 3.864 | 34.414 | 4.23 | 27.334 | 1.183 |
| 900 | 3.807 | 3.741 | 34.435 | 4.159 | 27.363 | 1.223 |
| 950 | 3.696 | 3.627 | 34.461 | 4.12 | 27.395 | 1.262 |
| 1000 | 3.635 | 3.562 | 34.499 | 4.072 | 27.432 | 1.299 |
| 1100 | 3.552 | 3.472 | 34.56 | 4.041 | 27.489 | 1.369 |
| 1200 | 3.53 | 3.442 | 34.64 | 4.211 | 27.556 | 1.434 |
| 1300 | 3.524 | 3.427 | 34.707 | 4.359 | 27.611 | 1.495 |
| 1400 | 3.504 | 3.399 | 34.754 | 4.491 | 27.651 | 1.551 |
| 1500 | 3.445 | 3.332 | 34.786 | 4.67 | 27.683 | 1.606 |
| 1600 | 3.387 | 3.265 | 34.821 | 4.849 | 27.717 | 1.657 |
| 1700 | 3.292 | 3.163 | 34.845 | 4.983 | 27.746 | 1.707 |
| 1800 | 3.206 | 3.069 | 34.861 | 5.109 | 27.768 | 1.754 |
| 1900 | 3.111 | 2.966 | 34.873 | 5.186 | 27.787 | 1.800 |
| 2000 | 3.027 | 2.874 | 34.877 | 5.243 | 27.799 | 1.845 |

| PR | TE | PT | SA | OX | RN |
|---|---|---|---|---|---|
| 3.9 | 19.397 | 19.396 | 36.173 | 5.231 | 18 |
| 50.2 | 19.128 | 19.119 | 36.106 | 5.263 | 17 |
| 100.1 | 18.867 | 18.849 | 36.088 | 5.245 | 16 |
| 150.0 | 15.843 | 15.820 | 35.530 | 5.012 | 15 |
| 201.0 | 14.827 | 14.796 | 35.397 | 5.005 | 13 |
| 250.8 | 13.725 | 13.689 | 35.231 | 4.958 | 11 |
| 500.2 | 7.747 | 7.697 | 34.570 | 3.935 | 10 |
| 750.7 | 4.447 | 4.389 | 34.379 | 4.190 | 8 |
| 1000.6 | 3.642 | 3.569 | 34.489 | 4.011 | 7 |
| 1249.7 | 3.528 | 3.435 | 34.669 | 4.249 | 4 |
| 1251.0 | 3.528 | 3.435 | 34.669 | 4.251 | 5 |
| 1498.9 | 3.443 | 3.330 | 34.787 | 4.661 | 3 |
| 1750.9 | 3.251 | 3.118 | 34.853 | 5.057 | 2 |
| 2000.0 | 3.027 | 2.875 | 34.877 | 5.287 | 1 |

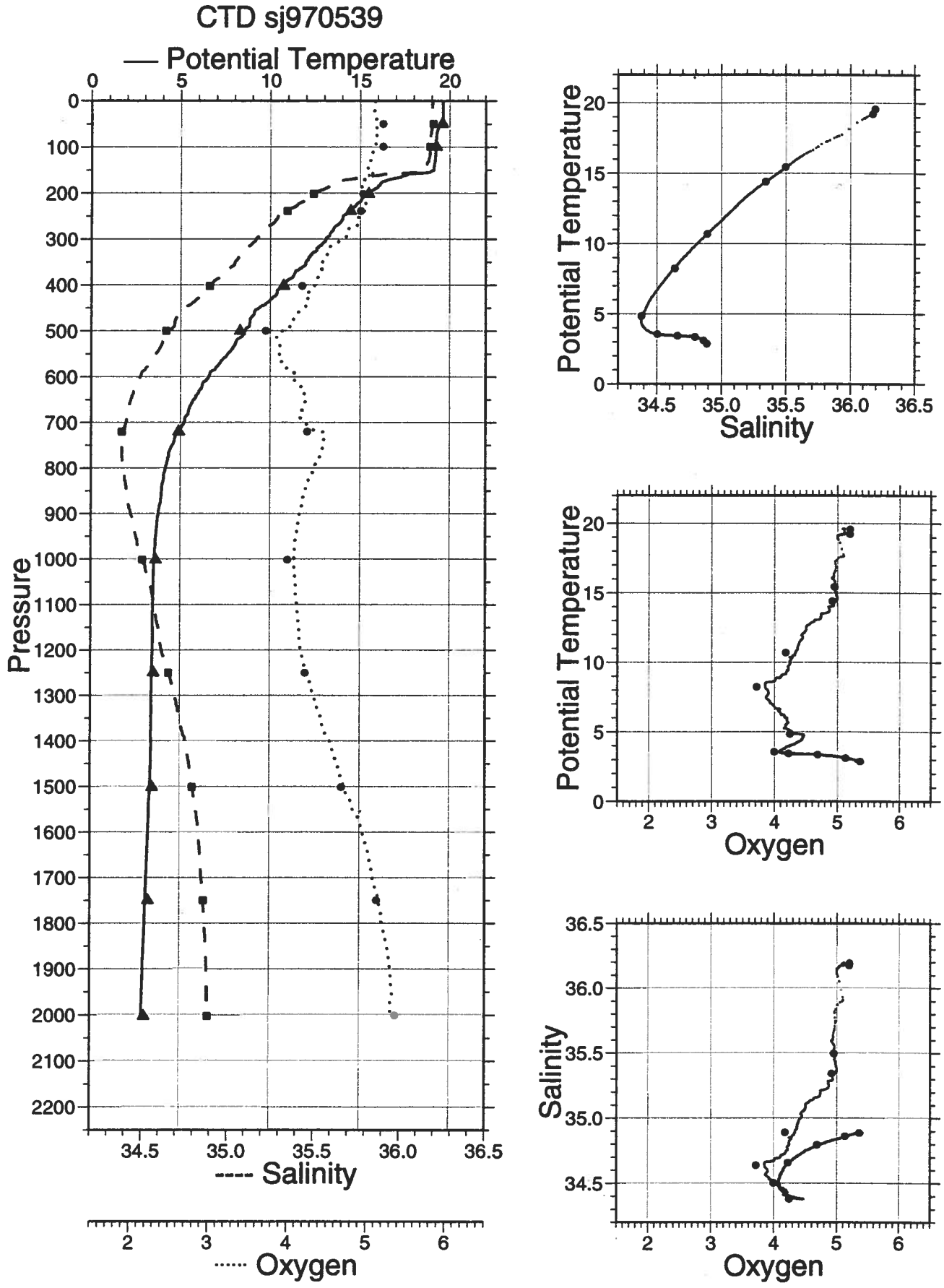

CTD sj970538
— Potential Temperature
Pressure
---- Salinity
····· Oxygen
Potential Temperature
Salinity
Potential Temperature
Oxygen
Salinity
Oxygen

# station 39

**lat. 22 12.07 S** **97/09/20**
**lon. 7 0.00 W** **07:44:32**

| PR | TE | PT | SA | OX | S0 | HZ |
|---|---|---|---|---|---|---|
| 0 | 19.623 | 19.623 | 36.189 | 5.1 | 25.77 | 0.000 |
| 10 | 19.626 | 19.624 | 36.189 | 5.1 | 25.769 | 0.022 |
| 20 | 19.628 | 19.624 | 36.189 | 5.096 | 25.769 | 0.044 |
| 30 | 19.629 | 19.624 | 36.19 | 5.103 | 25.77 | 0.067 |
| 40 | 19.63 | 19.623 | 36.19 | 5.114 | 25.771 | 0.089 |
| 50 | 19.594 | 19.585 | 36.196 | 5.108 | 25.785 | 0.111 |
| 60 | 19.366 | 19.355 | 36.186 | 5.121 | 25.837 | 0.133 |
| 70 | 19.297 | 19.285 | 36.181 | 5.124 | 25.852 | 0.155 |
| 80 | 19.278 | 19.263 | 36.181 | 5.108 | 25.857 | 0.177 |
| 90 | 19.253 | 19.237 | 36.176 | 5.107 | 25.86 | 0.198 |
| 100 | 19.249 | 19.231 | 36.176 | 5.093 | 25.862 | 0.220 |
| 110 | 19.242 | 19.222 | 36.176 | 5.076 | 25.864 | 0.242 |
| 120 | 19.229 | 19.207 | 36.173 | 5.062 | 25.866 | 0.263 |
| 130 | 19.211 | 19.187 | 36.167 | 5.035 | 25.866 | 0.285 |
| 140 | 19.157 | 19.132 | 36.153 | 5.006 | 25.87 | 0.307 |
| 150 | 19.14 | 19.113 | 36.146 | 4.996 | 25.87 | 0.329 |
| 160 | 17.652 | 17.625 | 35.899 | 5.086 | 26.054 | 0.349 |
| 170 | 16.702 | 16.674 | 35.708 | 4.968 | 26.136 | 0.369 |
| 180 | 16.155 | 16.127 | 35.602 | 4.921 | 26.183 | 0.388 |
| 190 | 15.918 | 15.888 | 35.566 | 4.95 | 26.21 | 0.407 |
| 200 | 15.533 | 15.502 | 35.512 | 4.953 | 26.256 | 0.425 |
| 210 | 15.183 | 15.151 | 35.458 | 4.965 | 26.293 | 0.443 |
| 220 | 14.991 | 14.958 | 35.428 | 4.976 | 26.312 | 0.461 |
| 230 | 14.701 | 14.666 | 35.385 | 4.996 | 26.343 | 0.479 |
| 240 | 14.397 | 14.362 | 35.337 | 4.957 | 26.371 | 0.496 |
| 250 | 14.08 | 14.043 | 35.29 | 4.919 | 26.403 | 0.513 |
| 260 | 13.984 | 13.946 | 35.275 | 4.866 | 26.412 | 0.530 |
| 270 | 13.751 | 13.712 | 35.243 | 4.87 | 26.436 | 0.547 |
| 280 | 13.534 | 13.494 | 35.212 | 4.739 | 26.457 | 0.563 |
| 290 | 13.344 | 13.304 | 35.188 | 4.732 | 26.478 | 0.580 |
| 300 | 13.124 | 13.082 | 35.161 | 4.675 | 26.502 | 0.596 |
| 325 | 12.616 | 12.572 | 35.102 | 4.5 | 26.558 | 0.635 |
| 350 | 12.041 | 11.995 | 35.039 | 4.433 | 26.621 | 0.674 |
| 375 | 11.393 | 11.346 | 34.966 | 4.388 | 26.686 | 0.711 |
| 400 | 10.766 | 10.717 | 34.892 | 4.335 | 26.743 | 0.746 |
| 425 | 10.258 | 10.208 | 34.833 | 4.262 | 26.786 | 0.780 |
| 450 | 9.435 | 9.384 | 34.746 | 4.197 | 26.857 | 0.813 |
| 475 | 8.94 | 8.888 | 34.693 | 4.066 | 26.896 | 0.845 |
| 500 | 8.646 | 8.592 | 34.666 | 3.942 | 26.921 | 0.876 |
| 550 | 7.68 | 7.624 | 34.578 | 3.888 | 26.998 | 0.935 |
| 600 | 6.616 | 6.561 | 34.489 | 4.071 | 27.076 | 0.990 |
| 650 | 5.794 | 5.737 | 34.432 | 4.206 | 27.137 | 1.042 |
| 700 | 5.264 | 5.206 | 34.404 | 4.197 | 27.179 | 1.092 |
| 750 | 4.61 | 4.551 | 34.379 | 4.446 | 27.234 | 1.138 |
| 800 | 4.234 | 4.174 | 34.389 | 4.338 | 27.282 | 1.183 |
| 850 | 4.03 | 3.966 | 34.407 | 4.221 | 27.318 | 1.225 |
| 900 | 3.852 | 3.786 | 34.432 | 4.146 | 27.356 | 1.265 |
| 950 | 3.711 | 3.642 | 34.465 | 4.089 | 27.397 | 1.304 |
| 1000 | 3.633 | 3.56 | 34.501 | 4.086 | 27.434 | 1.341 |
| 1100 | 3.573 | 3.492 | 34.57 | 4.115 | 27.495 | 1.411 |
| 1200 | 3.562 | 3.474 | 34.616 | 4.165 | 27.534 | 1.477 |
| 1300 | 3.524 | 3.427 | 34.694 | 4.332 | 27.601 | 1.539 |
| 1400 | 3.522 | 3.416 | 34.756 | 4.532 | 27.651 | 1.596 |
| 1500 | 3.474 | 3.361 | 34.794 | 4.706 | 27.687 | 1.650 |
| 1600 | 3.378 | 3.257 | 34.833 | 4.951 | 27.728 | 1.702 |
| 1700 | 3.279 | 3.15 | 34.851 | 5.078 | 27.752 | 1.750 |
| 1800 | 3.206 | 3.068 | 34.869 | 5.197 | 27.774 | 1.797 |
| 1900 | 3.11 | 2.965 | 34.882 | 5.303 | 27.794 | 1.842 |
| 2000 | 3.033 | 2.88 | 34.887 | 5.313 | 27.806 | 1.886 |

| PR | TE | PT | SA | OX | RN |
|---|---|---|---|---|---|
| 49.5 | 19.593 | 19.584 | 36.194 | 5.200 | 13 |
| 99.3 | 19.247 | 19.229 | 36.176 | 5.198 | 12 |
| 201.8 | 15.476 | 15.445 | 35.497 | 4.947 | 11 |
| 239.0 | 14.460 | 14.424 | 35.343 | 4.916 | 10 |
| 401.7 | 10.742 | 10.693 | 34.891 | 4.177 | 9 |
| 500.0 | 8.305 | 8.252 | 34.638 | 3.716 | 8 |
| 719.9 | 4.904 | 4.847 | 34.381 | 4.244 | 7 |
| 1001.4 | 3.635 | 3.562 | 34.503 | 3.998 | 5 |
| 1249.8 | 3.540 | 3.447 | 34.658 | 4.222 | 4 |
| 1501.5 | 3.477 | 3.363 | 34.795 | 4.683 | 3 |
| 1749.5 | 3.248 | 3.115 | 34.862 | 5.131 | 2 |
| 2002.4 | 3.030 | 2.877 | 34.887 | 5.366 | 1 |

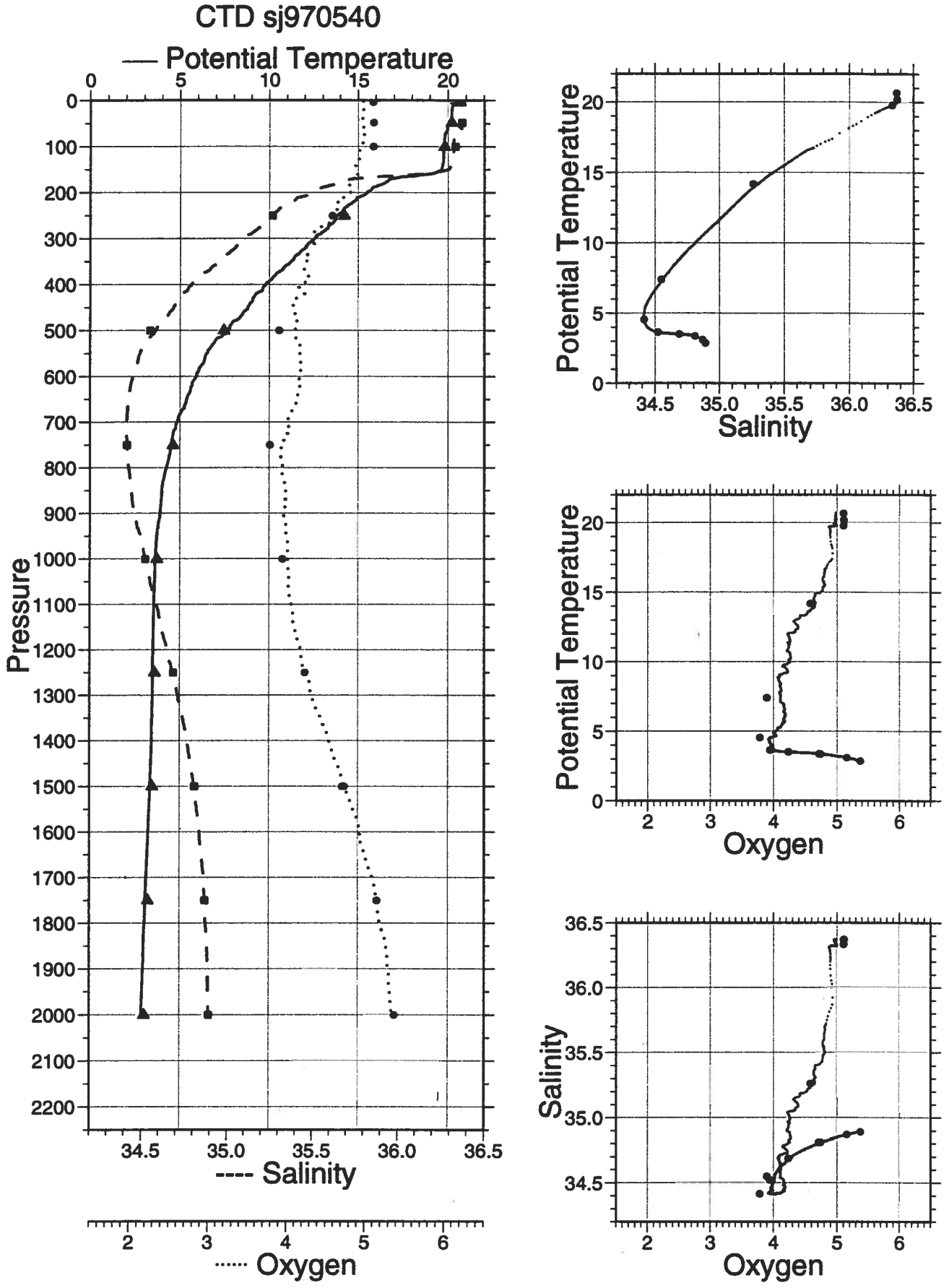

CTD sj970539
— Potential Temperature
0 5 10 15 20
Pressure
0 100 200 300 400 500 600 700 800 900 1000 1100 1200 1300 1400 1500 1600 1700 1800 1900 2000 2100 2200
34.5 35.0 35.5 36.0 36.5
---- Salinity
2 3 4 5 6
····· Oxygen
Potential Temperature
0 5 10 15 20
34.5 35.0 35.5 36.0 36.5
Salinity
Potential Temperature
0 5 10 15 20
2 3 4 5 6
Oxygen
Salinity
34.5 35.0 35.5 36.0 36.5
2 3 4 5 6
Oxygen

# station 40

**lat. 21 6.00 S** **97/09/20**
**lon. 7 0.00 W** **14:50:58**

| PR | TE | PT | SA | OX | S0 | HZ |
|---|---|---|---|---|---|---|
| 0 | 20.463 | 20.463 | 36.365 | 4.976 | 25.681 | 0.000 |
| 10 | 20.29 | 20.288 | 36.37 | 4.983 | 25.732 | 0.023 |
| 20 | 20.226 | 20.222 | 36.371 | 4.977 | 25.75 | 0.045 |
| 30 | 20.211 | 20.205 | 36.37 | 4.971 | 25.754 | 0.068 |
| 40 | 20.203 | 20.196 | 36.37 | 4.964 | 25.756 | 0.090 |
| 50 | 20.127 | 20.118 | 36.362 | 4.975 | 25.771 | 0.113 |
| 60 | 19.978 | 19.967 | 36.368 | 4.972 | 25.816 | 0.135 |
| 70 | 19.897 | 19.884 | 36.349 | 4.967 | 25.823 | 0.157 |
| 80 | 19.818 | 19.803 | 36.33 | 4.993 | 25.83 | 0.179 |
| 90 | 19.802 | 19.785 | 36.326 | 4.974 | 25.832 | 0.200 |
| 100 | 19.764 | 19.746 | 36.317 | 4.96 | 25.835 | 0.222 |
| 110 | 19.776 | 19.756 | 36.324 | 4.924 | 25.838 | 0.244 |
| 120 | 19.766 | 19.744 | 36.322 | 4.917 | 25.84 | 0.266 |
| 130 | 19.767 | 19.743 | 36.323 | 4.921 | 25.841 | 0.288 |
| 140 | 19.721 | 19.695 | 36.31 | 4.872 | 25.843 | 0.310 |
| 150 | 19.645 | 19.618 | 36.288 | 4.887 | 25.847 | 0.332 |
| 160 | 18.97 | 18.942 | 36.144 | 4.895 | 25.912 | 0.354 |
| 170 | 16.918 | 16.889 | 35.749 | 4.841 | 26.117 | 0.375 |
| 180 | 16.449 | 16.419 | 35.648 | 4.798 | 26.15 | 0.394 |
| 190 | 15.816 | 15.786 | 35.547 | 4.782 | 26.218 | 0.413 |
| 200 | 15.547 | 15.516 | 35.503 | 4.81 | 26.246 | 0.431 |
| 210 | 15.079 | 15.047 | 35.425 | 4.752 | 26.29 | 0.449 |
| 220 | 14.76 | 14.727 | 35.376 | 4.655 | 26.323 | 0.467 |
| 230 | 14.414 | 14.38 | 35.325 | 4.64 | 26.358 | 0.484 |
| 240 | 14.167 | 14.132 | 35.291 | 4.635 | 26.385 | 0.502 |
| 250 | 13.87 | 13.834 | 35.252 | 4.616 | 26.418 | 0.519 |
| 260 | 13.741 | 13.704 | 35.233 | 4.578 | 26.43 | 0.535 |
| 270 | 13.461 | 13.423 | 35.2 | 4.524 | 26.463 | 0.552 |
| 280 | 13.23 | 13.191 | 35.173 | 4.422 | 26.489 | 0.568 |
| 290 | 12.927 | 12.887 | 35.139 | 4.323 | 26.524 | 0.584 |
| 300 | 12.593 | 12.553 | 35.101 | 4.388 | 26.561 | 0.600 |
| 325 | 11.889 | 11.847 | 35.025 | 4.237 | 26.638 | 0.638 |
| 350 | 11.271 | 11.227 | 34.953 | 4.249 | 26.698 | 0.674 |
| 375 | 10.448 | 10.403 | 34.859 | 4.265 | 26.773 | 0.709 |
| 400 | 9.825 | 9.779 | 34.787 | 4.171 | 26.824 | 0.742 |
| 425 | 9.227 | 9.18 | 34.723 | 4.165 | 26.873 | 0.774 |
| 450 | 8.842 | 8.793 | 34.684 | 4.082 | 26.904 | 0.805 |
| 475 | 8.292 | 8.242 | 34.632 | 4.1 | 26.949 | 0.835 |
| 500 | 7.716 | 7.666 | 34.579 | 4.102 | 26.993 | 0.864 |
| 550 | 6.535 | 6.485 | 34.487 | 4.164 | 27.085 | 0.919 |
| 600 | 5.946 | 5.893 | 34.448 | 4.17 | 27.13 | 0.971 |
| 650 | 5.419 | 5.365 | 34.422 | 4.114 | 27.174 | 1.020 |
| 700 | 4.899 | 4.843 | 34.413 | 4.016 | 27.228 | 1.067 |
| 750 | 4.575 | 4.517 | 34.415 | 3.944 | 27.266 | 1.112 |
| 800 | 4.298 | 4.237 | 34.424 | 3.94 | 27.303 | 1.155 |
| 850 | 4.057 | 3.994 | 34.44 | 3.985 | 27.341 | 1.196 |
| 900 | 3.954 | 3.887 | 34.456 | 3.958 | 27.365 | 1.236 |
| 950 | 3.782 | 3.712 | 34.493 | 3.992 | 27.412 | 1.274 |
| 1000 | 3.711 | 3.638 | 34.522 | 4.008 | 27.443 | 1.311 |
| 1100 | 3.645 | 3.564 | 34.586 | 4.057 | 27.501 | 1.380 |
| 1200 | 3.616 | 3.527 | 34.647 | 4.175 | 27.553 | 1.445 |
| 1300 | 3.599 | 3.501 | 34.713 | 4.322 | 27.608 | 1.506 |
| 1400 | 3.555 | 3.449 | 34.767 | 4.539 | 27.657 | 1.563 |
| 1500 | 3.48 | 3.366 | 34.807 | 4.748 | 27.697 | 1.617 |
| 1600 | 3.382 | 3.261 | 34.839 | 4.949 | 27.732 | 1.667 |
| 1700 | 3.283 | 3.153 | 34.863 | 5.088 | 27.761 | 1.715 |
| 1800 | 3.195 | 3.058 | 34.874 | 5.182 | 27.779 | 1.761 |
| 1900 | 3.118 | 2.973 | 34.887 | 5.287 | 27.797 | 1.806 |
| 2000 | 3.022 | 2.869 | 34.892 | 5.338 | 27.811 | 1.850 |

| PR | TE | PT | SA | OX | RN |
|---|---|---|---|---|---|
| 3.2 | 20.667 | 20.667 | 36.369 | 5.102 | 18 |
| 48.0 | 20.207 | 20.198 | 36.372 | 5.108 | 17 |
| 100.4 | 19.808 | 19.789 | 36.334 | 5.104 | 16 |
| 250.0 | 14.215 | 14.178 | 35.263 | 4.582 | 11 |
| 499.9 | 7.443 | 7.394 | 34.549 | 3.897 | 10 |
| 750.1 | 4.608 | 4.549 | 34.415 | 3.783 | 8 |
| 1000.4 | 3.719 | 3.646 | 34.521 | 3.946 | 7 |
| 1250.2 | 3.603 | 3.509 | 34.687 | 4.233 | 5 |
| 1500.3 | 3.478 | 3.364 | 34.810 | 4.737 | 3 |
| 1500.3 | 3.477 | 3.363 | 34.809 | 4.712 | 4 |
| 1750.1 | 3.232 | 3.099 | 34.871 | 5.151 | 2 |
| 2000.4 | 3.022 | 2.869 | 34.893 | 5.372 | 1 |


CTD sj970540
— Potential Temperature
0 5 10 15 20
Pressure
0 100 200 300 400 500 600 700 800 900 1000 1100 1200 1300 1400 1500 1600 1700 1800 1900 2000 2100 2200
34.5 35.0 35.5 36.0 36.5
---- Salinity
2 3 4 5 6
····· Oxygen
Potential Temperature
0 5 10 15 20
34.5 35.0 35.5 36.0 36.5
Salinity
Potential Temperature
0 5 10 15 20
2 3 4 5 6
Oxygen
Salinity
34.5 35.0 35.5 36.0 36.5
2 3 4 5 6
Oxygen

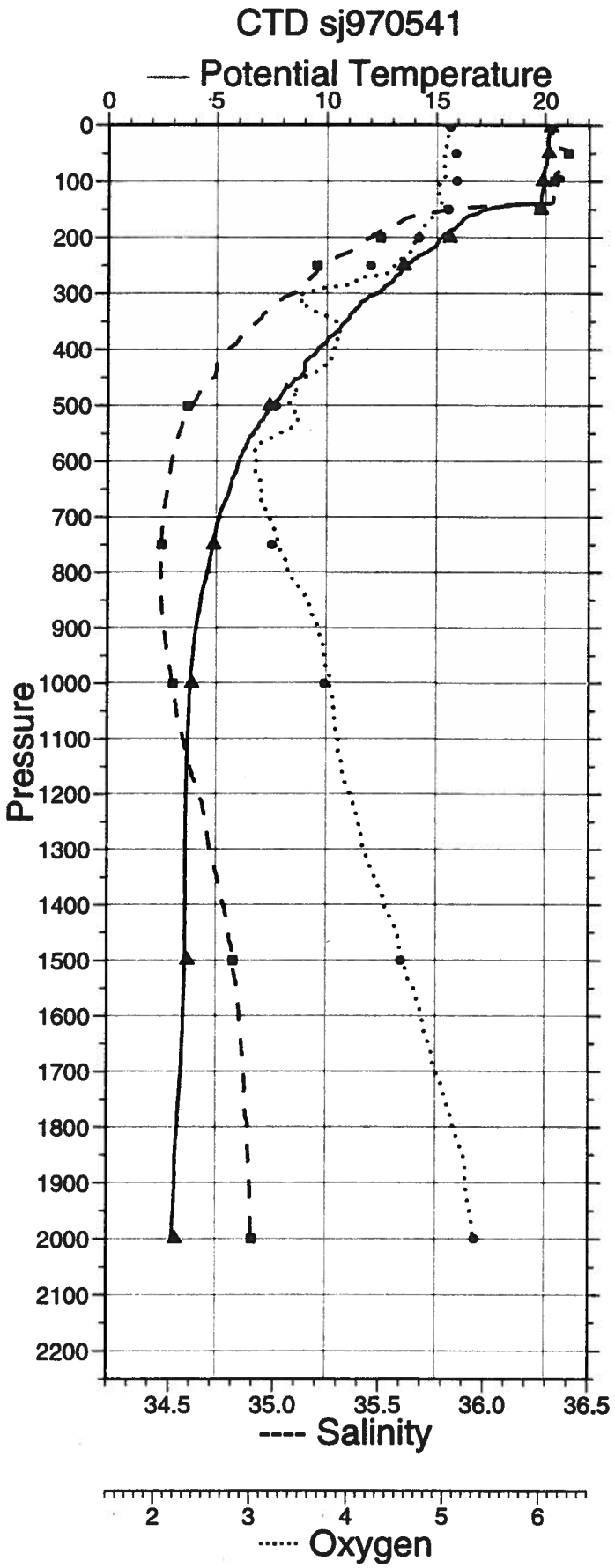
# station 41

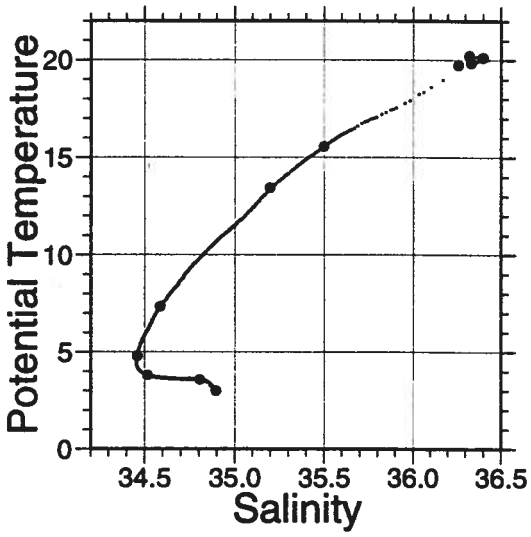
**lat. 19 59.93 S**
**lon. 6 59.93 W**

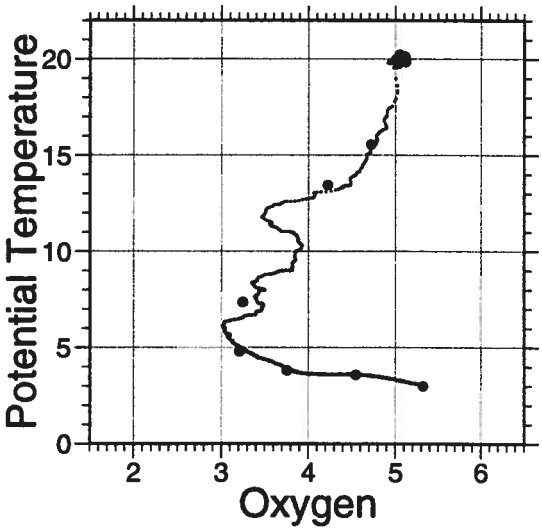
**97/09/20**
**22:03:00**

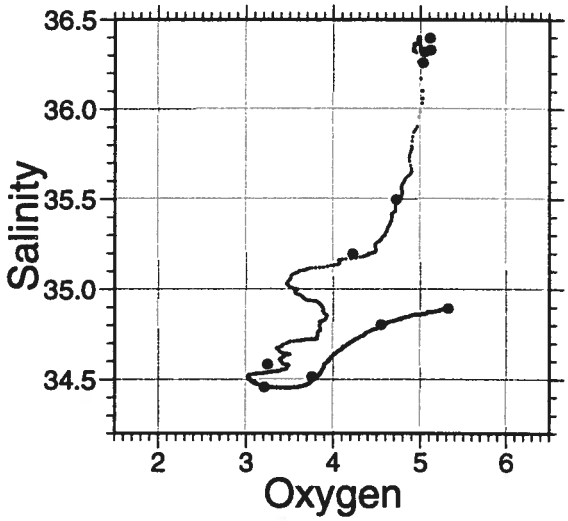
| PR | TE | PT | SA | OX | S0 | HZ |
|---|---|---|---|---|---|---|
| 0 | 20.211 | 20.211 | 36.321 | 5.013 | 25.715 | 0.000 |
| 10 | 20.18 | 20.178 | 36.322 | 5 | 25.724 | 0.023 |
| 20 | 20.142 | 20.138 | 36.321 | 5.023 | 25.734 | 0.045 |
| 30 | 20.124 | 20.118 | 36.322 | 5.029 | 25.74 | 0.068 |
| 40 | 20.159 | 20.151 | 36.349 | 5.002 | 25.752 | 0.090 |
| 50 | 20.13 | 20.121 | 36.401 | 4.991 | 25.8 | 0.113 |
| 60 | 20.072 | 20.06 | 36.392 | 4.98 | 25.809 | 0.135 |
| 70 | 20.049 | 20.035 | 36.386 | 4.973 | 25.811 | 0.157 |
| 80 | 19.955 | 19.94 | 36.358 | 4.999 | 25.815 | 0.179 |
| 90 | 19.877 | 19.86 | 36.336 | 4.999 | 25.82 | 0.201 |
| 100 | 19.959 | 19.941 | 36.367 | 4.939 | 25.822 | 0.223 |
| 110 | 19.921 | 19.901 | 36.357 | 4.945 | 25.825 | 0.245 |
| 120 | 19.864 | 19.842 | 36.34 | 4.921 | 25.827 | 0.267 |
| 130 | 19.826 | 19.801 | 36.328 | 4.914 | 25.829 | 0.289 |
| 140 | 19.577 | 19.551 | 36.267 | 4.979 | 25.848 | 0.311 |
| 150 | 17.345 | 17.319 | 35.847 | 4.908 | 26.089 | 0.332 |
| 160 | 16.641 | 16.615 | 35.688 | 4.886 | 26.135 | 0.351 |
| 170 | 16.21 | 16.183 | 35.601 | 4.816 | 26.169 | 0.371 |
| 180 | 15.946 | 15.918 | 35.556 | 4.782 | 26.195 | 0.389 |
| 190 | 15.517 | 15.487 | 35.49 | 4.761 | 26.242 | 0.408 |
| 200 | 15.295 | 15.264 | 35.455 | 4.715 | 26.265 | 0.426 |
| 210 | 15.057 | 15.025 | 35.418 | 4.672 | 26.29 | 0.444 |
| 220 | 14.818 | 14.784 | 35.382 | 4.666 | 26.315 | 0.462 |
| 230 | 14.376 | 14.342 | 35.321 | 4.61 | 26.363 | 0.479 |
| 240 | 13.961 | 13.926 | 35.266 | 4.522 | 26.409 | 0.496 |
| 250 | 13.484 | 13.448 | 35.207 | 4.478 | 26.463 | 0.513 |
| 260 | 13.427 | 13.39 | 35.197 | 4.404 | 26.467 | 0.529 |
| 270 | 13.139 | 13.102 | 35.17 | 4.202 | 26.505 | 0.545 |
| 280 | 12.991 | 12.952 | 35.151 | 4.074 | 26.52 | 0.561 |
| 290 | 12.64 | 12.601 | 35.118 | 3.753 | 26.565 | 0.577 |
| 300 | 12.285 | 12.245 | 35.083 | 3.529 | 26.607 | 0.592 |
| 325 | 11.434 | 11.392 | 34.983 | 3.562 | 26.691 | 0.629 |
| 350 | 10.883 | 10.839 | 34.913 | 3.863 | 26.737 | 0.664 |
| 375 | 10.308 | 10.263 | 34.849 | 3.923 | 26.789 | 0.698 |
| 400 | 9.637 | 9.592 | 34.779 | 3.855 | 26.849 | 0.731 |
| 425 | 9.055 | 9.008 | 34.724 | 3.794 | 26.901 | 0.762 |
| 450 | 8.852 | 8.803 | 34.712 | 3.509 | 26.924 | 0.793 |
| 475 | 8.069 | 8.02 | 34.641 | 3.495 | 26.989 | 0.822 |
| 500 | 7.644 | 7.594 | 34.606 | 3.403 | 27.024 | 0.850 |
| 550 | 6.724 | 6.673 | 34.543 | 3.287 | 27.104 | 0.904 |
| 600 | 6.067 | 6.014 | 34.507 | 3.045 | 27.162 | 0.955 |
| 650 | 5.656 | 5.6 | 34.486 | 3.099 | 27.197 | 1.003 |
| 700 | 5.181 | 5.123 | 34.467 | 3.179 | 27.239 | 1.049 |
| 750 | 4.911 | 4.851 | 34.457 | 3.285 | 27.262 | 1.094 |
| 800 | 4.654 | 4.591 | 34.455 | 3.381 | 27.29 | 1.138 |
| 850 | 4.346 | 4.281 | 34.458 | 3.571 | 27.326 | 1.180 |
| 900 | 4.141 | 4.072 | 34.47 | 3.686 | 27.357 | 1.221 |
| 950 | 4.011 | 3.94 | 34.485 | 3.747 | 27.383 | 1.260 |
| 1000 | 3.902 | 3.827 | 34.51 | 3.802 | 27.414 | 1.299 |
| 1100 | 3.788 | 3.706 | 34.564 | 3.891 | 27.469 | 1.371 |
| 1200 | 3.726 | 3.635 | 34.641 | 4.019 | 27.538 | 1.439 |
| 1300 | 3.711 | 3.612 | 34.694 | 4.158 | 27.582 | 1.502 |
| 1400 | 3.71 | 3.602 | 34.758 | 4.372 | 27.634 | 1.562 |
| 1500 | 3.711 | 3.595 | 34.801 | 4.575 | 27.669 | 1.618 |
| 1600 | 3.633 | 3.508 | 34.835 | 4.771 | 27.705 | 1.672 |
| 1700 | 3.552 | 3.419 | 34.856 | 4.907 | 27.73 | 1.724 |
| 1800 | 3.384 | 3.244 | 34.873 | 5.097 | 27.761 | 1.773 |
| 1900 | 3.286 | 3.138 | 34.887 | 5.224 | 27.782 | 1.820 |
| 2000 | 3.15 | 2.996 | 34.892 | 5.291 | 27.799 | 1.866 |

| PR | TE | PT | SA | OX | RN |
|---|---|---|---|---|---|
| 3.5 | 20.238 | 20.237 | 36.322 | 5.048 | 20 |
| 50.0 | 20.136 | 20.126 | 36.398 | 5.106 | 19 |
| 99.1 | 19.863 | 19.844 | 36.332 | 5.115 | 18 |
| 149.9 | 19.781 | 19.754 | 36.259 | 5.028 | 17 |
| 200.6 | 15.605 | 15.573 | 35.499 | 4.723 | 16 |
| 250.0 | 13.493 | 13.458 | 35.197 | 4.222 | 11 |
| 501.1 | 7.407 | 7.357 | 34.584 | 3.246 | 10 |
| 749.5 | 4.864 | 4.804 | 34.458 | 3.208 | 8 |
| 1000.7 | 3.894 | 3.819 | 34.516 | 3.754 | 7 |
| 1500.0 | 3.704 | 3.588 | 34.805 | 4.549 | 3 |
| 1999.8 | 3.152 | 2.997 | 34.895 | 5.319 | 1 |


CTD sj970541
— Potential Temperature
0 5 10 15 20
Pressure
0 100 200 300 400 500 600 700 800 900 1000 1100 1200 1300 1400 1500 1600 1700 1800 1900 2000 2100 2200
34.5 35.0 35.5 36.0 36.5
---- Salinity
2 3 4 5 6
····· Oxygen


Potential Temperature
0 5 10 15 20
34.5 35.0 35.5 36.0 36.5
Salinity


Potential Temperature
0 5 10 15 20
2 3 4 5 6
Oxygen

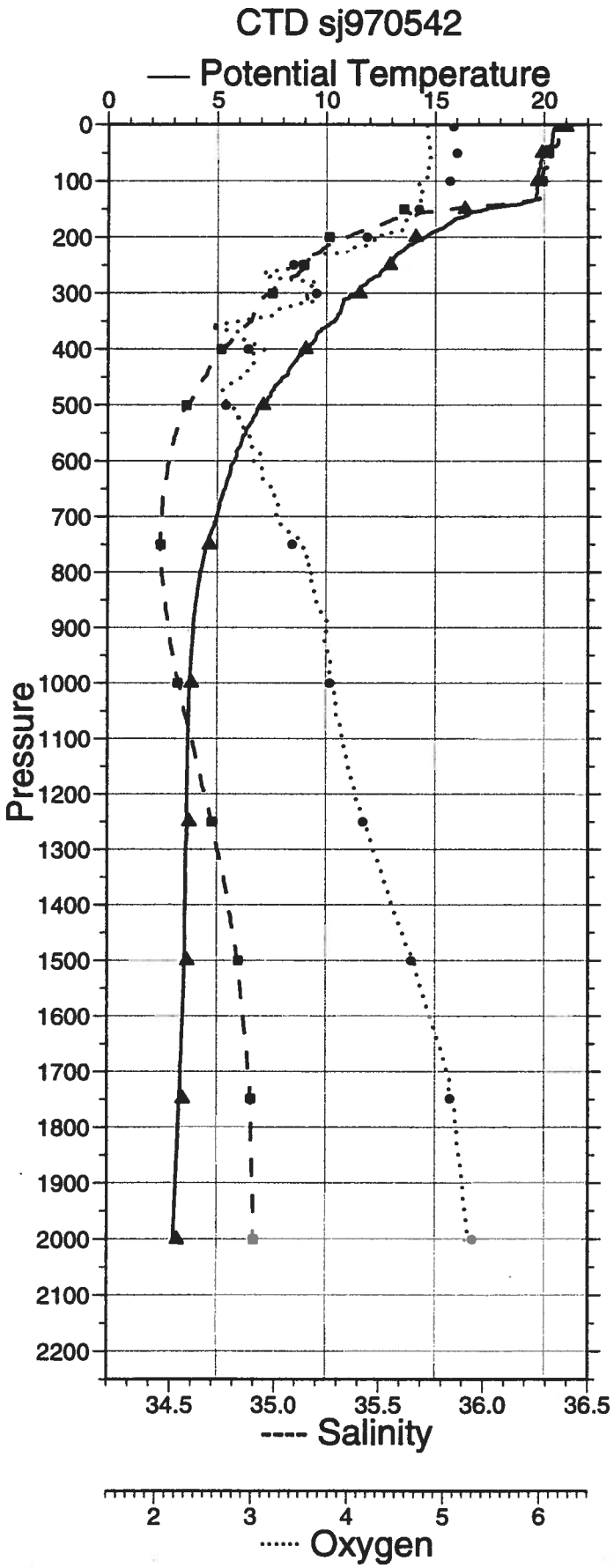

Salinity
34.5 35.0 35.5 36.0 36.5
2 3 4 5 6
Oxygen

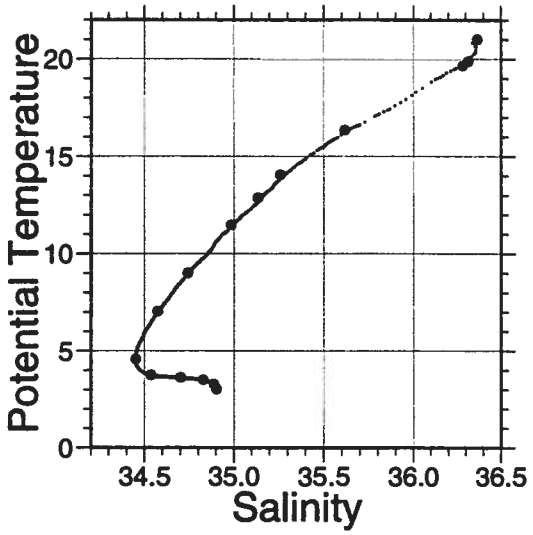
# station 42

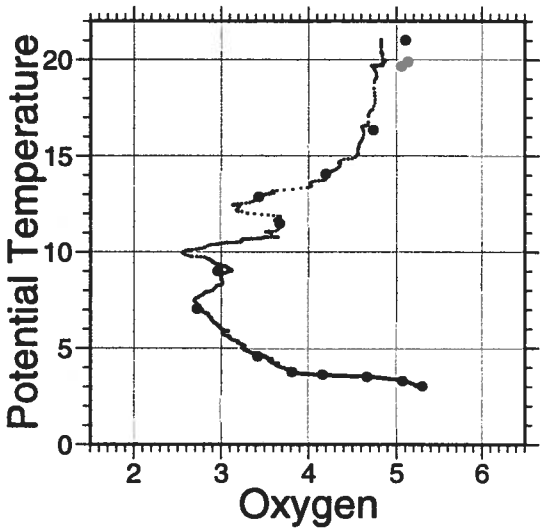
**lat. 19 0.00 S** **97/09/21**
**lon. 6 0.00 W** **17:44:01**

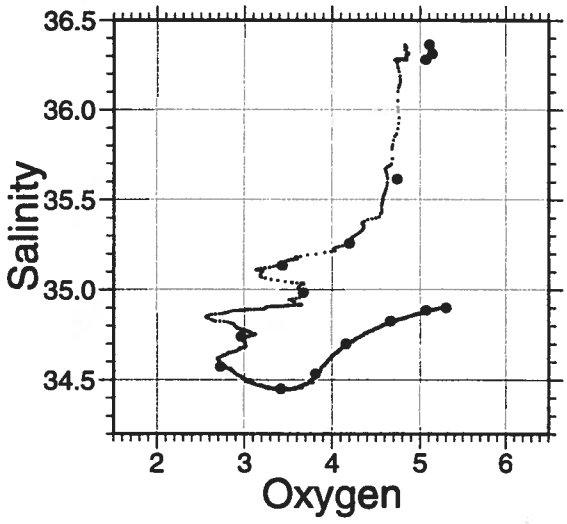
| PR | TE | PT | SA | OX | S0 | HZ |
|---|---|---|---|---|---|---|
| 0 | 20.638 | 20.638 | 36.356 | 4.824 | 25.627 | 0.000 |
| 10 | 20.425 | 20.423 | 36.357 | 4.825 | 25.685 | 0.023 |
| 20 | 20.39 | 20.386 | 36.357 | 4.834 | 25.695 | 0.046 |
| 30 | 20.372 | 20.366 | 36.357 | 4.832 | 25.701 | 0.069 |
| 40 | 20.02 | 20.012 | 36.318 | 4.844 | 25.765 | 0.092 |
| 50 | 19.931 | 19.922 | 36.314 | 4.855 | 25.786 | 0.114 |
| 60 | 19.898 | 19.887 | 36.314 | 4.846 | 25.796 | 0.136 |
| 70 | 19.831 | 19.818 | 36.298 | 4.842 | 25.802 | 0.158 |
| 80 | 19.78 | 19.765 | 36.287 | 4.837 | 25.807 | 0.181 |
| 90 | 19.739 | 19.722 | 36.28 | 4.846 | 25.813 | 0.203 |
| 100 | 19.735 | 19.716 | 36.284 | 4.803 | 25.818 | 0.225 |
| 110 | 19.704 | 19.684 | 36.279 | 4.719 | 25.823 | 0.247 |
| 120 | 19.705 | 19.683 | 36.283 | 4.772 | 25.826 | 0.269 |
| 130 | 19.664 | 19.64 | 36.272 | 4.736 | 25.829 | 0.291 |
| 140 | 19.042 | 19.016 | 36.139 | 4.764 | 25.889 | 0.313 |
| 150 | 17.414 | 17.389 | 35.854 | 4.71 | 26.077 | 0.334 |
| 160 | 16.567 | 16.541 | 35.676 | 4.606 | 26.143 | 0.353 |
| 170 | 15.899 | 15.872 | 35.556 | 4.606 | 26.206 | 0.372 |
| 180 | 15.503 | 15.475 | 35.492 | 4.573 | 26.246 | 0.390 |
| 190 | 14.982 | 14.953 | 35.407 | 4.533 | 26.297 | 0.408 |
| 200 | 14.56 | 14.531 | 35.345 | 4.36 | 26.341 | 0.426 |
| 210 | 14.045 | 14.014 | 35.278 | 4.204 | 26.4 | 0.443 |
| 220 | 13.648 | 13.616 | 35.233 | 4.027 | 26.448 | 0.460 |
| 230 | 13.268 | 13.236 | 35.194 | 3.722 | 26.496 | 0.476 |
| 240 | 13.101 | 13.067 | 35.172 | 3.589 | 26.513 | 0.492 |
| 250 | 12.934 | 12.9 | 35.156 | 3.452 | 26.535 | 0.507 |
| 260 | 12.564 | 12.529 | 35.122 | 3.237 | 26.582 | 0.523 |
| 270 | 12.342 | 12.306 | 35.094 | 3.191 | 26.604 | 0.538 |
| 280 | 11.918 | 11.881 | 35.038 | 3.647 | 26.642 | 0.553 |
| 290 | 11.571 | 11.534 | 34.999 | 3.663 | 26.677 | 0.567 |
| 300 | 11.388 | 11.35 | 34.98 | 3.673 | 26.696 | 0.581 |
| 325 | 10.742 | 10.702 | 34.909 | 3.361 | 26.759 | 0.616 |
| 350 | 10.425 | 10.383 | 34.885 | 2.878 | 26.796 | 0.649 |
| 375 | 9.592 | 9.55 | 34.803 | 2.886 | 26.875 | 0.682 |
| 400 | 9.135 | 9.091 | 34.755 | 3.111 | 26.912 | 0.713 |
| 425 | 8.552 | 8.507 | 34.699 | 3.011 | 26.961 | 0.742 |
| 450 | 8.063 | 8.017 | 34.66 | 2.902 | 27.005 | 0.771 |
| 475 | 7.545 | 7.498 | 34.617 | 2.688 | 27.047 | 0.799 |
| 500 | 7.084 | 7.036 | 34.578 | 2.77 | 27.082 | 0.826 |
| 550 | 6.36 | 6.31 | 34.525 | 2.928 | 27.138 | 0.877 |
| 600 | 5.833 | 5.781 | 34.495 | 3.016 | 27.181 | 0.926 |
| 650 | 5.41 | 5.356 | 34.471 | 3.199 | 27.214 | 0.973 |
| 700 | 5.024 | 4.968 | 34.457 | 3.263 | 27.249 | 1.019 |
| 750 | 4.598 | 4.54 | 34.449 | 3.511 | 27.29 | 1.063 |
| 800 | 4.296 | 4.235 | 34.457 | 3.594 | 27.33 | 1.104 |
| 850 | 4.107 | 4.043 | 34.472 | 3.666 | 27.362 | 1.145 |
| 900 | 3.985 | 3.918 | 34.49 | 3.782 | 27.389 | 1.183 |
| 950 | 3.897 | 3.826 | 34.511 | 3.801 | 27.415 | 1.221 |
| 1000 | 3.833 | 3.759 | 34.542 | 3.848 | 27.447 | 1.258 |
| 1100 | 3.755 | 3.673 | 34.601 | 3.945 | 27.502 | 1.327 |
| 1200 | 3.725 | 3.634 | 34.664 | 4.078 | 27.556 | 1.392 |
| 1300 | 3.686 | 3.588 | 34.724 | 4.266 | 27.609 | 1.453 |
| 1400 | 3.664 | 3.557 | 34.776 | 4.46 | 27.653 | 1.511 |
| 1500 | 3.647 | 3.531 | 34.822 | 4.682 | 27.692 | 1.565 |
| 1600 | 3.577 | 3.453 | 34.849 | 4.848 | 27.722 | 1.617 |
| 1700 | 3.478 | 3.347 | 34.876 | 5.035 | 27.753 | 1.667 |
| 1800 | 3.382 | 3.242 | 34.889 | 5.134 | 27.774 | 1.714 |
| 1900 | 3.289 | 3.141 | 34.896 | 5.194 | 27.789 | 1.761 |
| 2000 | 3.19 | 3.034 | 34.901 | 5.249 | 27.803 | 1.806 |

| PR | TE | PT | SA | OX | RN |
|---|---|---|---|---|---|
| 3.3 | 21.018 | 21.017 | 36.365 | 5.102 | 20 |
| 50.0 | 19.901 | 19.892 | 36.314 | 5.137 | 19 |
| 100.3 | 19.691 | 19.673 | 36.282 | 5.063 | 18 |
| 150.2 | 16.370 | 16.346 | 35.616 | 4.737 | 17 |
| 199.9 | 14.104 | 14.074 | 35.259 | 4.195 | 16 |
| 249.7 | 12.920 | 12.886 | 35.137 | 3.432 | 15 |
| 300.6 | 11.525 | 11.487 | 34.985 | 3.669 | 14 |
| 400.0 | 9.054 | 9.010 | 34.741 | 2.959 | 11 |
| 500.4 | 7.101 | 7.053 | 34.574 | 2.724 | 10 |
| 749.9 | 4.647 | 4.588 | 34.451 | 3.418 | 8 |
| 999.6 | 3.841 | 3.767 | 34.535 | 3.810 | 7 |
| 1249.8 | 3.726 | 3.632 | 34.700 | 4.159 | 5 |
| 1249.8 | 3.726 | 3.631 | 34.701 | 4.159 | 4 |
| 1500.2 | 3.637 | 3.521 | 34.827 | 4.663 | 3 |
| 1748.6 | 3.441 | 3.305 | 34.887 | 5.068 | 2 |
| 2001.1 | 3.192 | 3.036 | 34.902 | 5.301 | 1 |


CTD sj970542
— Potential Temperature
0 5 10 15 20
Pressure
0 100 200 300 400 500 600 700 800 900 1000 1100 1200 1300 1400 1500 1600 1700 1800 1900 2000 2100 2200
34.5 35.0 35.5 36.0 36.5
---- Salinity
2 3 4 5 6
····· Oxygen


Potential Temperature
0 5 10 15 20
34.5 35.0 35.5 36.0 36.5
Salinity


Potential Temperature
0 5 10 15 20
2 3 4 5 6
Oxygen

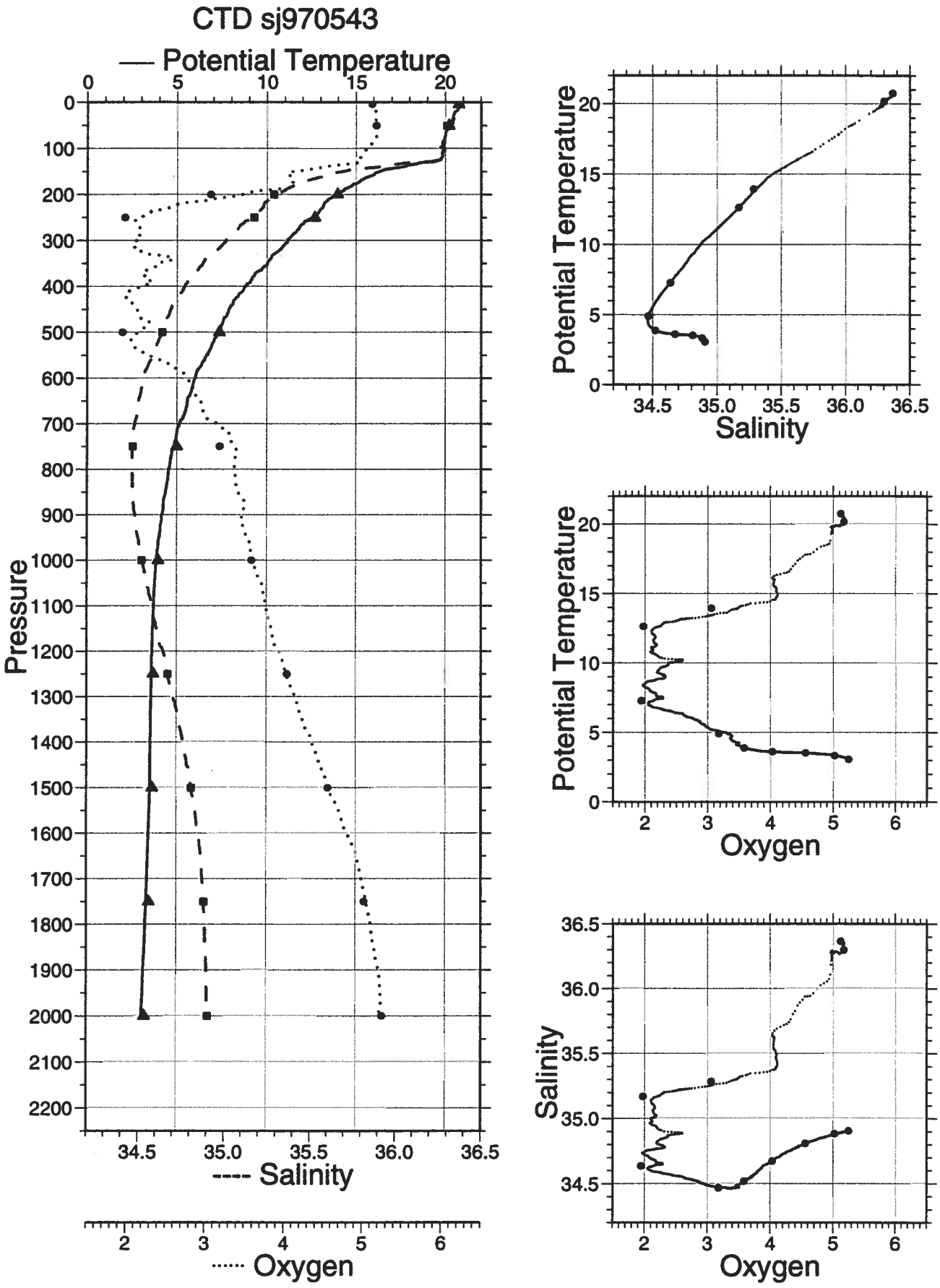

Salinity
34.5 35.0 35.5 36.0 36.5
2 3 4 5 6
Oxygen

# station 43

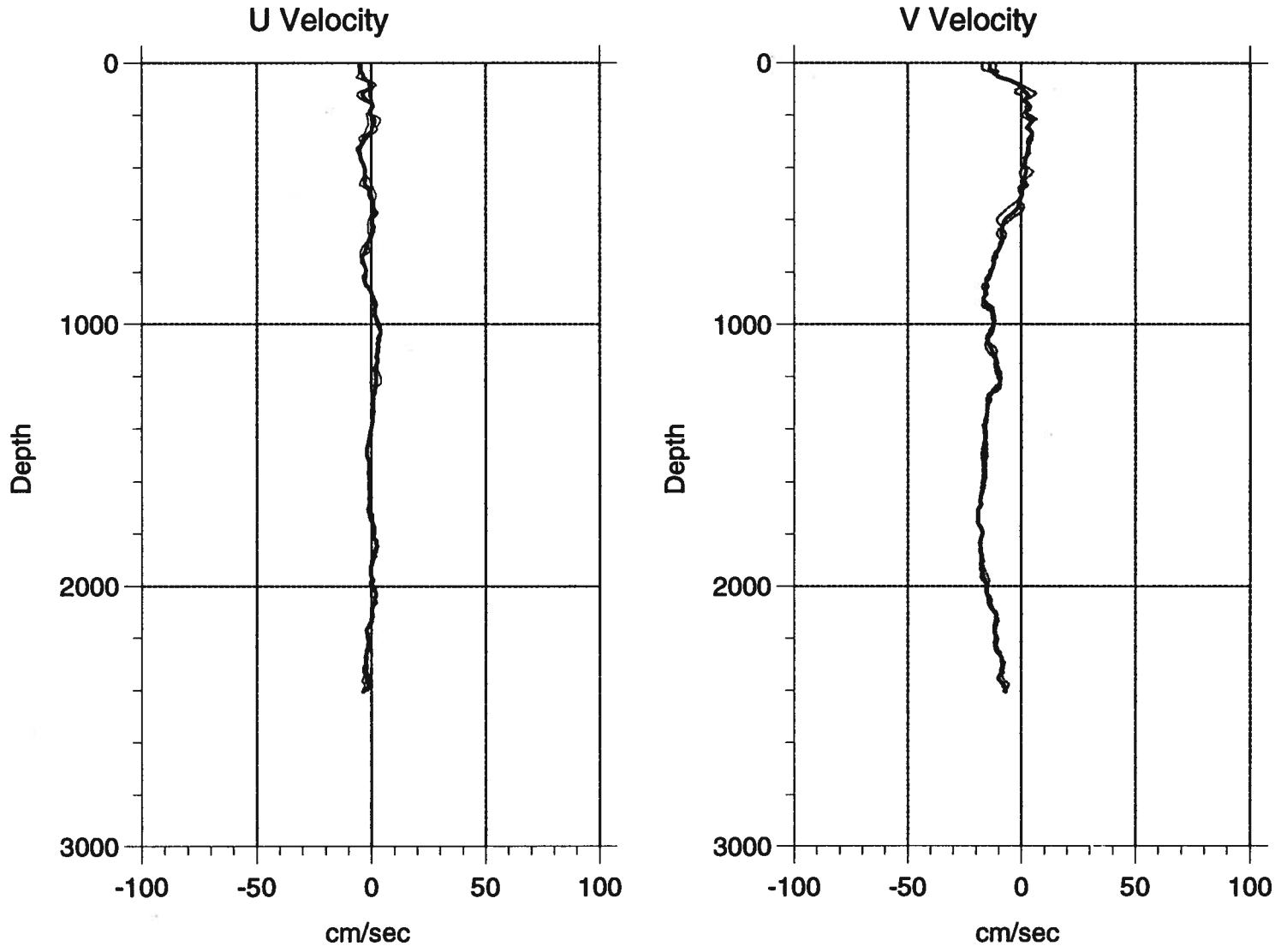
**lat. 17 59.97 S** **97/09/22**
**lon. 5 59.97 W** **00:28:24**

| PR | TE | PT | SA | OX | S0 | HZ |
|---|---|---|---|---|---|---|
| 0 | 20.75 | 20.75 | 36.357 | 5.146 | 25.597 | 0.000 |
| 10 | 20.741 | 20.739 | 36.35 | 5.133 | 25.595 | 0.024 |
| 20 | 20.561 | 20.558 | 36.361 | 5.162 | 25.652 | 0.047 |
| 30 | 20.464 | 20.458 | 36.349 | 5.173 | 25.67 | 0.071 |
| 40 | 20.397 | 20.389 | 36.334 | 5.155 | 25.677 | 0.094 |
| 50 | 20.313 | 20.304 | 36.319 | 5.166 | 25.689 | 0.117 |
| 60 | 20.094 | 20.082 | 36.288 | 5.182 | 25.724 | 0.140 |
| 70 | 20.027 | 20.014 | 36.289 | 5.165 | 25.743 | 0.163 |
| 80 | 19.962 | 19.947 | 36.279 | 5.143 | 25.753 | 0.186 |
| 90 | 19.932 | 19.916 | 36.275 | 5.109 | 25.758 | 0.208 |
| 100 | 19.9 | 19.881 | 36.282 | 5.071 | 25.773 | 0.231 |
| 110 | 19.833 | 19.813 | 36.275 | 5.012 | 25.786 | 0.253 |
| 120 | 19.819 | 19.797 | 36.281 | 4.963 | 25.794 | 0.276 |
| 130 | 18.847 | 18.824 | 36.109 | 4.954 | 25.915 | 0.298 |
| 140 | 17.666 | 17.642 | 35.914 | 4.513 | 26.062 | 0.318 |
| 150 | 16.375 | 16.351 | 35.691 | 4.109 | 26.199 | 0.337 |
| 160 | 15.874 | 15.848 | 35.591 | 4.059 | 26.238 | 0.356 |
| 170 | 15.294 | 15.268 | 35.481 | 4.096 | 26.284 | 0.374 |
| 180 | 14.812 | 14.784 | 35.4 | 4.103 | 26.328 | 0.391 |
| 190 | 14.373 | 14.345 | 35.353 | 3.834 | 26.387 | 0.409 |
| 200 | 13.94 | 13.911 | 35.302 | 3.465 | 26.44 | 0.425 |
| 210 | 13.484 | 13.454 | 35.257 | 3.073 | 26.5 | 0.441 |
| 220 | 13.241 | 13.21 | 35.228 | 2.67 | 26.528 | 0.457 |
| 230 | 13.107 | 13.075 | 35.218 | 2.516 | 26.547 | 0.473 |
| 240 | 12.902 | 12.869 | 35.196 | 2.298 | 26.572 | 0.488 |
| 250 | 12.565 | 12.531 | 35.163 | 2.149 | 26.613 | 0.503 |
| 260 | 12.117 | 12.083 | 35.113 | 2.12 | 26.662 | 0.518 |
| 270 | 11.87 | 11.835 | 35.083 | 2.164 | 26.686 | 0.532 |
| 280 | 11.682 | 11.646 | 35.06 | 2.13 | 26.703 | 0.546 |
| 290 | 11.416 | 11.38 | 35.031 | 2.168 | 26.731 | 0.560 |
| 300 | 11.175 | 11.137 | 35.004 | 2.122 | 26.754 | 0.574 |
| 325 | 10.595 | 10.556 | 34.937 | 2.188 | 26.807 | 0.607 |
| 350 | 10.059 | 10.018 | 34.872 | 2.374 | 26.849 | 0.639 |
| 375 | 9.361 | 9.319 | 34.809 | 2.195 | 26.917 | 0.670 |
| 400 | 8.849 | 8.806 | 34.767 | 2.177 | 26.967 | 0.700 |
| 425 | 8.32 | 8.275 | 34.724 | 1.994 | 27.016 | 0.728 |
| 450 | 7.913 | 7.867 | 34.686 | 2.129 | 27.047 | 0.756 |
| 475 | 7.609 | 7.562 | 34.658 | 2.259 | 27.07 | 0.783 |
| 500 | 7.375 | 7.326 | 34.638 | 2.144 | 27.088 | 0.809 |
| 550 | 6.693 | 6.642 | 34.58 | 2.273 | 27.137 | 0.861 |
| 600 | 6.05 | 5.997 | 34.529 | 2.766 | 27.181 | 0.910 |
| 650 | 5.638 | 5.583 | 34.501 | 2.938 | 27.211 | 0.957 |
| 700 | 5.202 | 5.144 | 34.477 | 3.143 | 27.244 | 1.003 |
| 750 | 4.892 | 4.832 | 34.463 | 3.366 | 27.269 | 1.048 |
| 800 | 4.617 | 4.554 | 34.463 | 3.367 | 27.3 | 1.091 |
| 850 | 4.444 | 4.378 | 34.467 | 3.411 | 27.322 | 1.133 |
| 900 | 4.237 | 4.168 | 34.48 | 3.456 | 27.355 | 1.174 |
| 950 | 4.09 | 4.018 | 34.497 | 3.518 | 27.384 | 1.214 |
| 1000 | 3.962 | 3.887 | 34.519 | 3.593 | 27.415 | 1.252 |
| 1100 | 3.808 | 3.726 | 34.576 | 3.767 | 27.477 | 1.324 |
| 1200 | 3.735 | 3.645 | 34.645 | 3.924 | 27.54 | 1.392 |
| 1300 | 3.694 | 3.595 | 34.704 | 4.14 | 27.592 | 1.454 |
| 1400 | 3.666 | 3.559 | 34.76 | 4.348 | 27.64 | 1.513 |
| 1500 | 3.648 | 3.532 | 34.808 | 4.571 | 27.681 | 1.568 |
| 1600 | 3.578 | 3.454 | 34.851 | 4.808 | 27.723 | 1.621 |
| 1700 | 3.508 | 3.375 | 34.874 | 4.982 | 27.749 | 1.671 |
| 1800 | 3.42 | 3.28 | 34.889 | 5.102 | 27.77 | 1.719 |
| 1900 | 3.315 | 3.167 | 34.899 | 5.204 | 27.789 | 1.765 |
| 2000 | 3.223 | 3.067 | 34.903 | 5.212 | 27.802 | 1.811 |

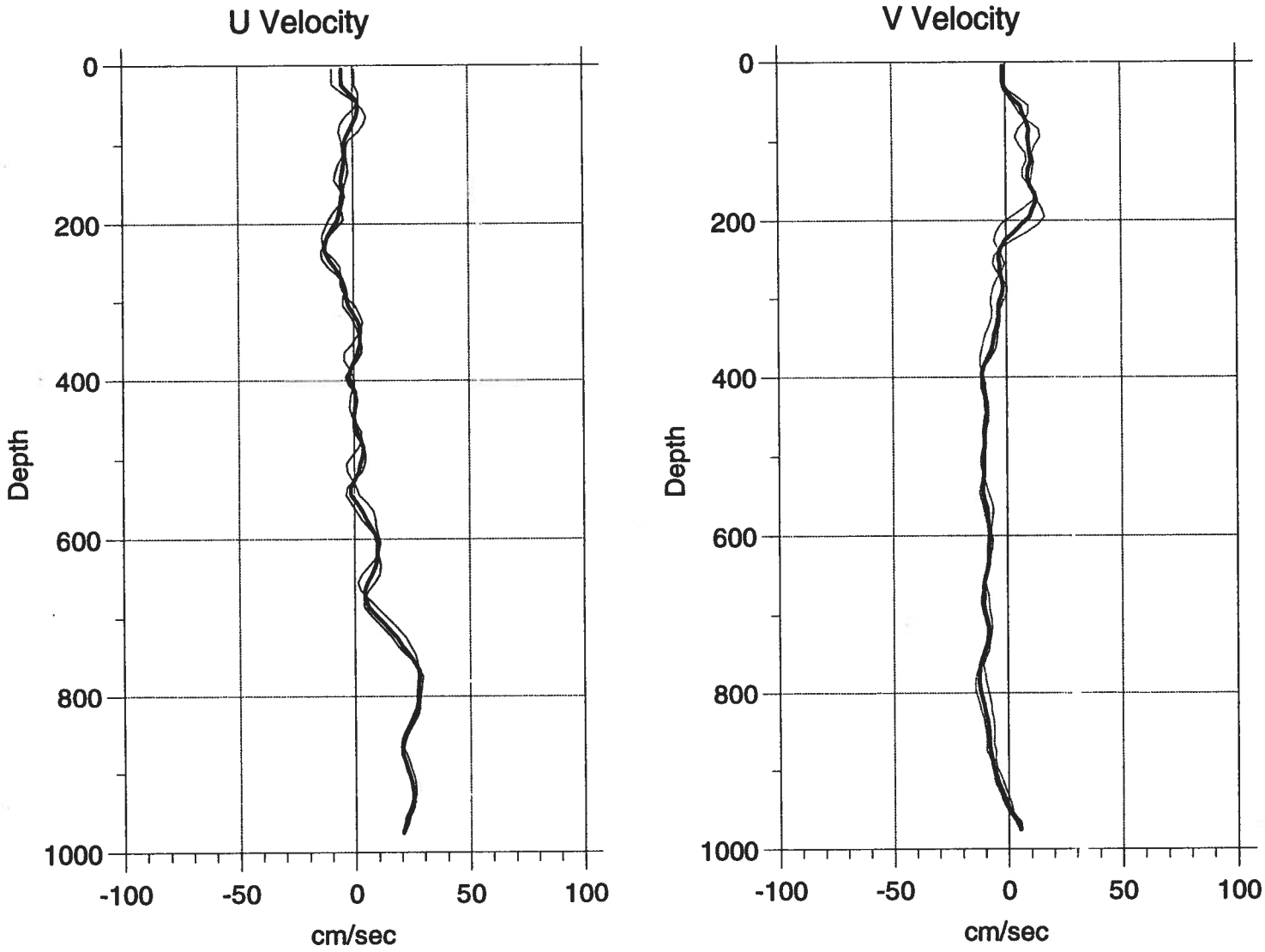
| PR | TE | PT | SA | OX | RN |
|---|---|---|---|---|---|
| 4.0 | 20.758 | 20.757 | 36.366 | 5.117 | 17 |
| 50.5 | 20.197 | 20.188 | 36.300 | 5.169 | 16 |
| 199.9 | 13.972 | 13.943 | 35.285 | 3.060 | 11 |
| 249.9 | 12.675 | 12.641 | 35.170 | 1.974 | 10 |
| 499.7 | 7.335 | 7.286 | 34.636 | 1.945 | 8 |
| 749.5 | 4.985 | 4.924 | 34.467 | 3.176 | 7 |
| 1000.0 | 3.963 | 3.888 | 34.520 | 3.582 | 5 |
| 1249.8 | 3.709 | 3.615 | 34.673 | 4.034 | 4 |
| 1500.2 | 3.648 | 3.532 | 34.809 | 4.558 | 3 |
| 1750.0 | 3.467 | 3.331 | 34.883 | 5.021 | 2 |
| 1999.9 | 3.223 | 3.067 | 34.905 | 5.247 | 1 |


CTD sj970543
— Potential Temperature
Pressure
---- Salinity
····· Oxygen
Potential Temperature
Salinity
Potential Temperature
Oxygen
Salinity
Oxygen

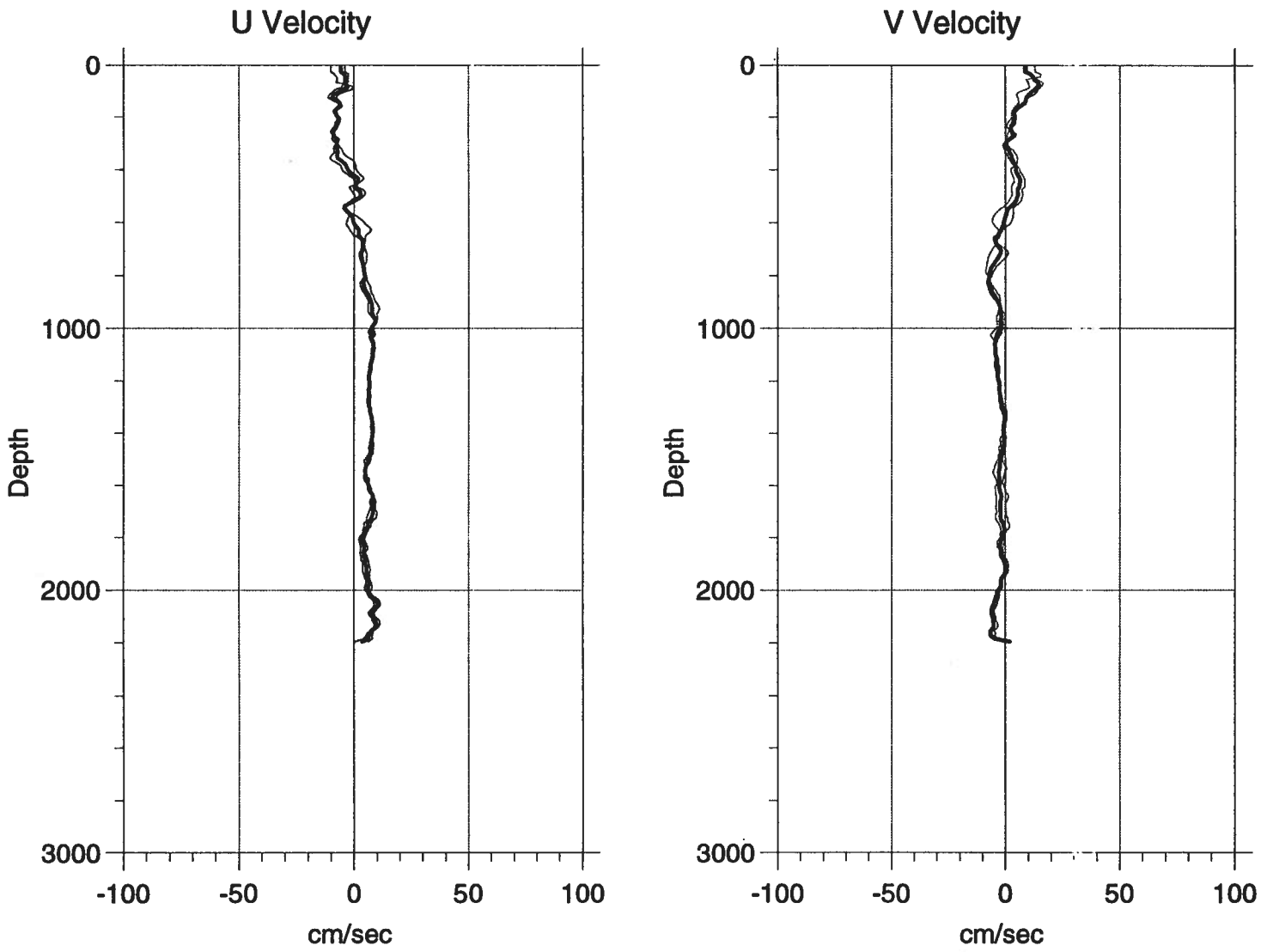
OCT97 - LADCP Station DF97000
Start Day 247  Time 17:31 Z
Start Location 33 33.15  016  8.64



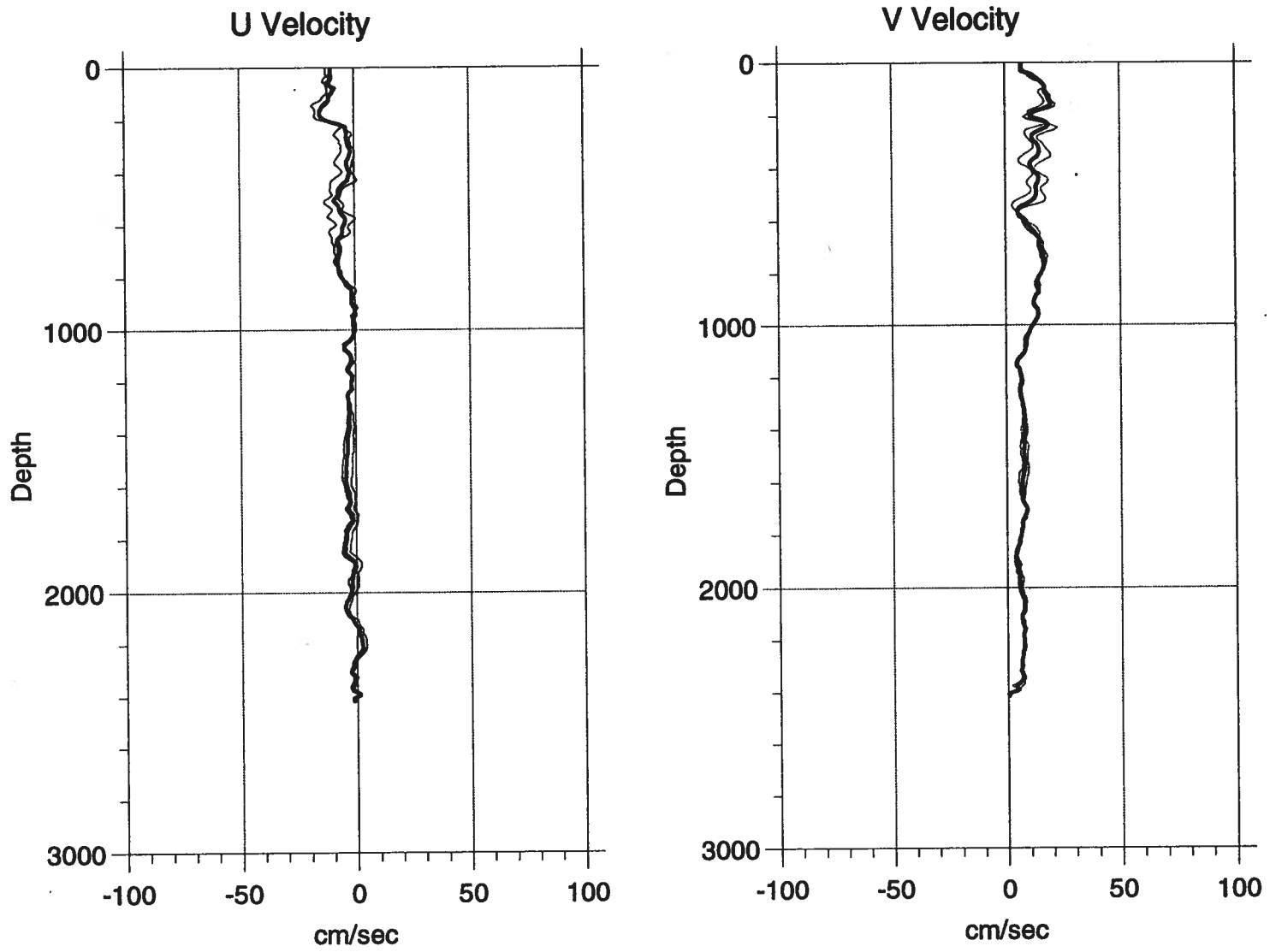
OCT97 - LADCP Station DF97 001
Start Day 248  Time 18:05 Z
Start Location 30 26.03  014 42.27



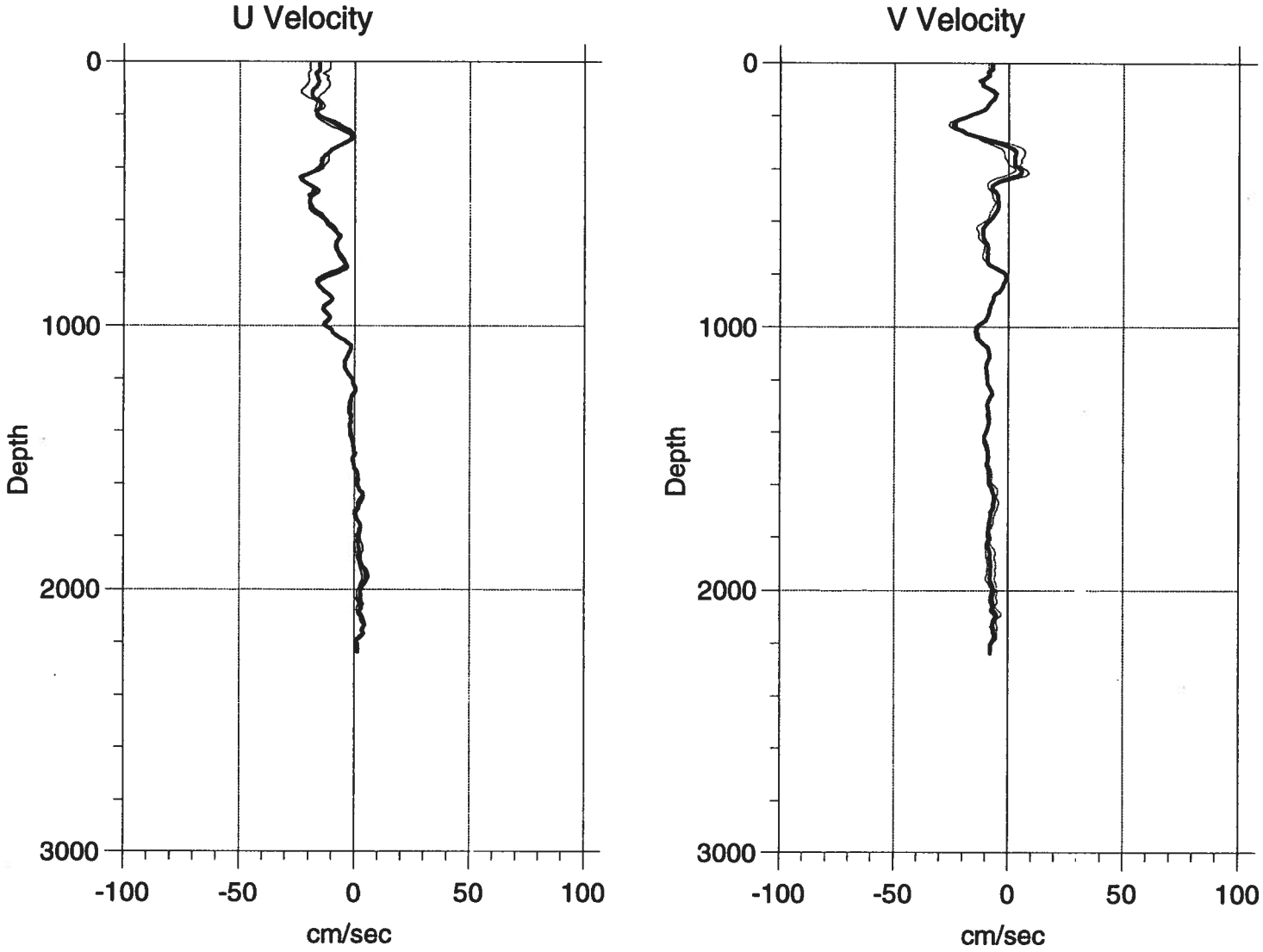
OCT97 - LADCP Station DF97 002
Start Day 248  Time 21:31 Z
Start Location 30 25.94  014  9.91



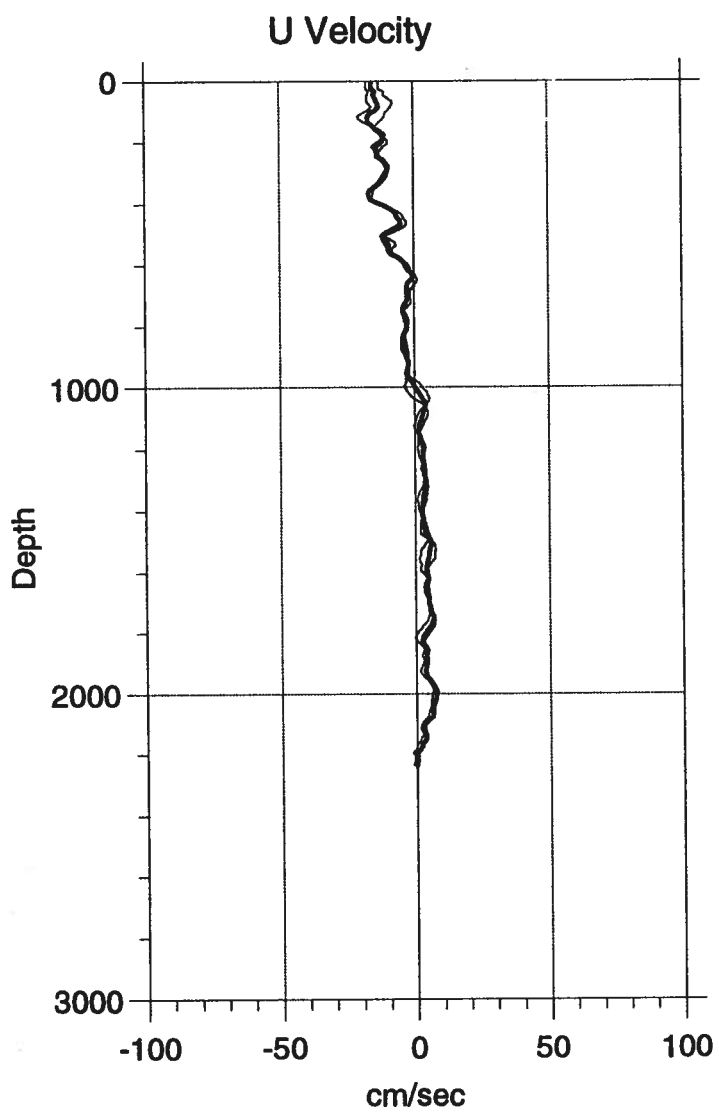
OCT97 - LADCP Station DF97 003
Start Day 249 Time 03:49 Z
Start Location 30 26.20 013 9.69

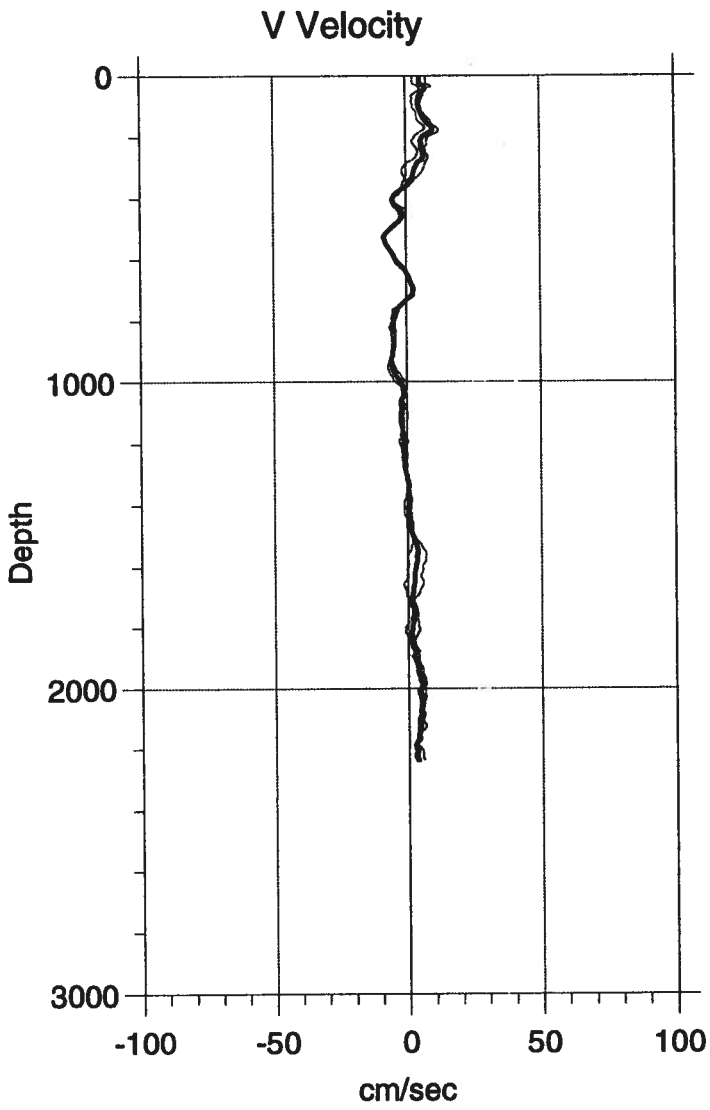


OCT97 - LADCP Station DF97 004
Start Day 249  Time 11:09 Z
Start Location 30  0.02  011 59.94

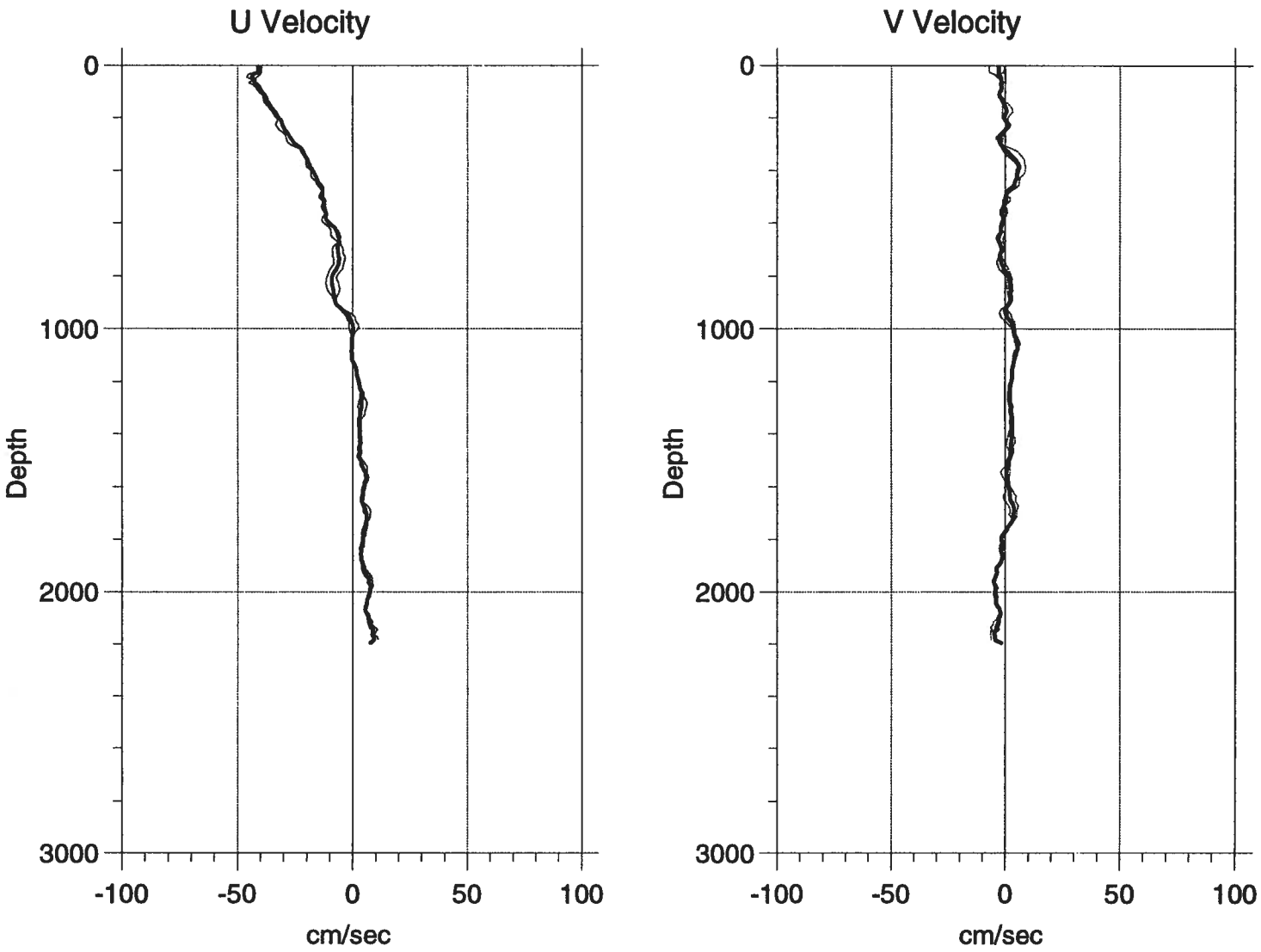


OCT97 - LADCP Station DF97 005
Start Day 249 Time 17:54 Z
Start Location 30 0.02 010 49.67

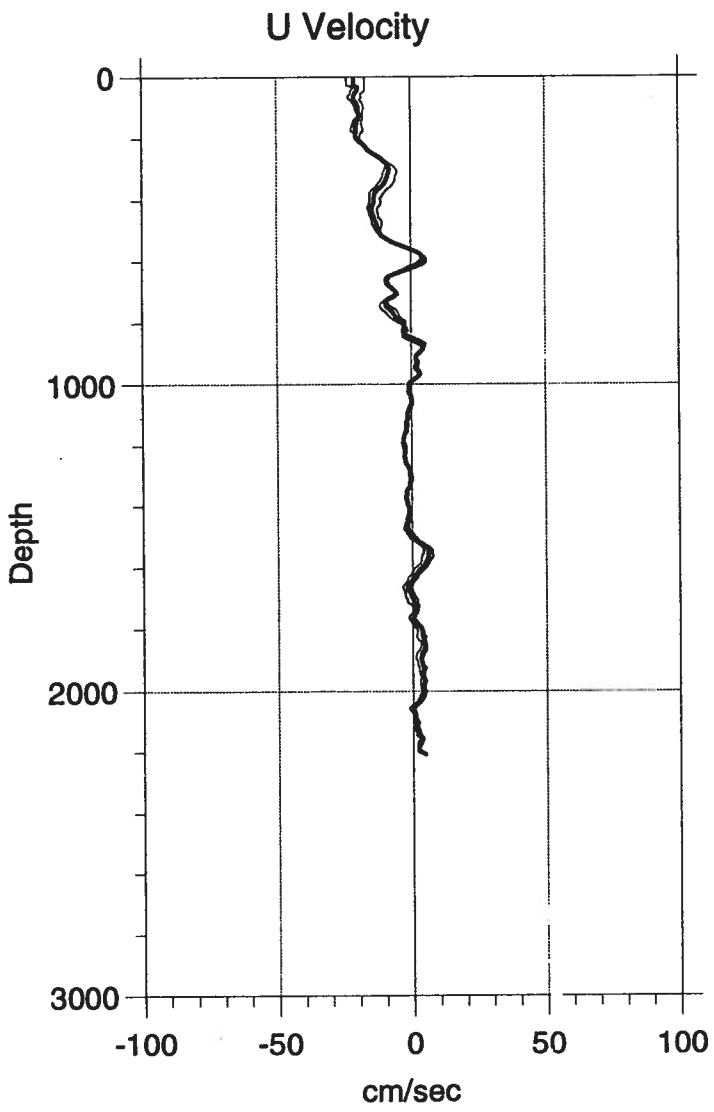


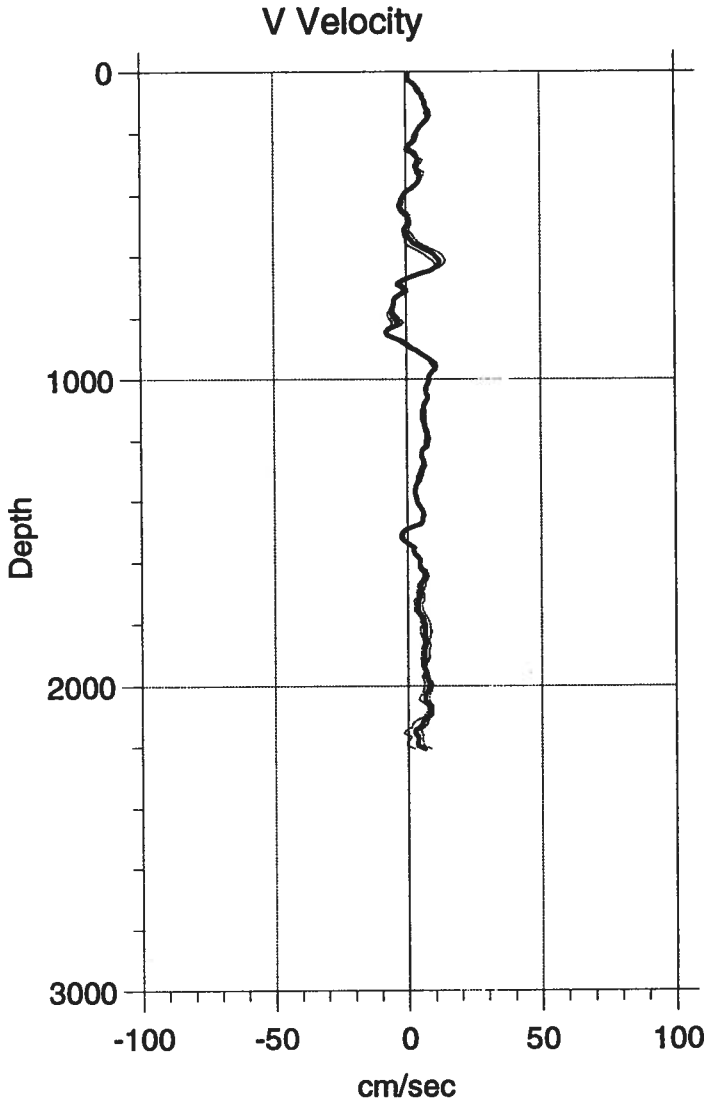



OCT97 - LADCP Station DF97 006
Start Day 250  Time 00:43 Z
Start Location 30  0.05  009 39.82

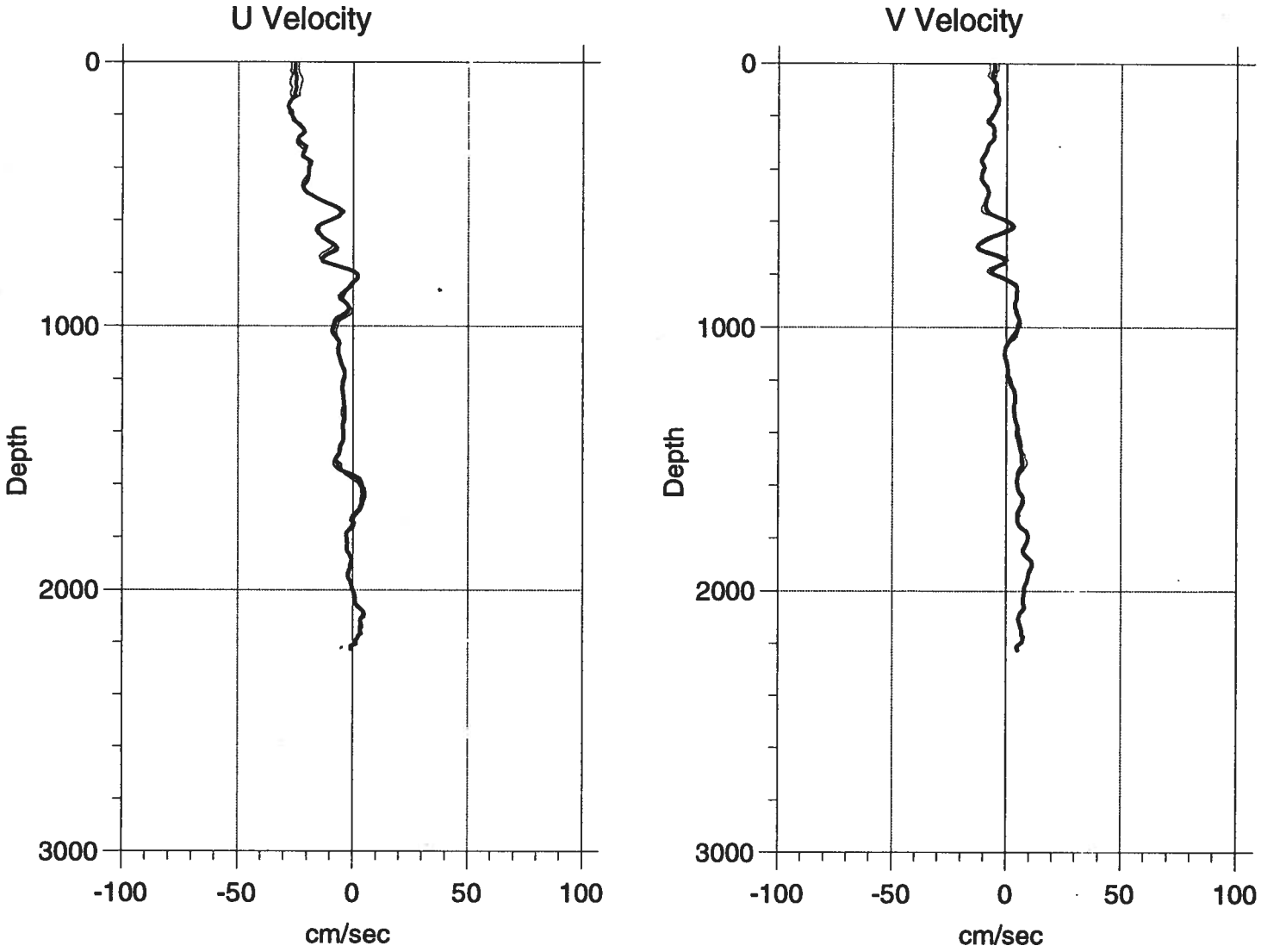


OCT97 - LADCP Station DF97 007
Start Day 252  Time 01:12 Z
Start Location 30 58.60  009 20.09

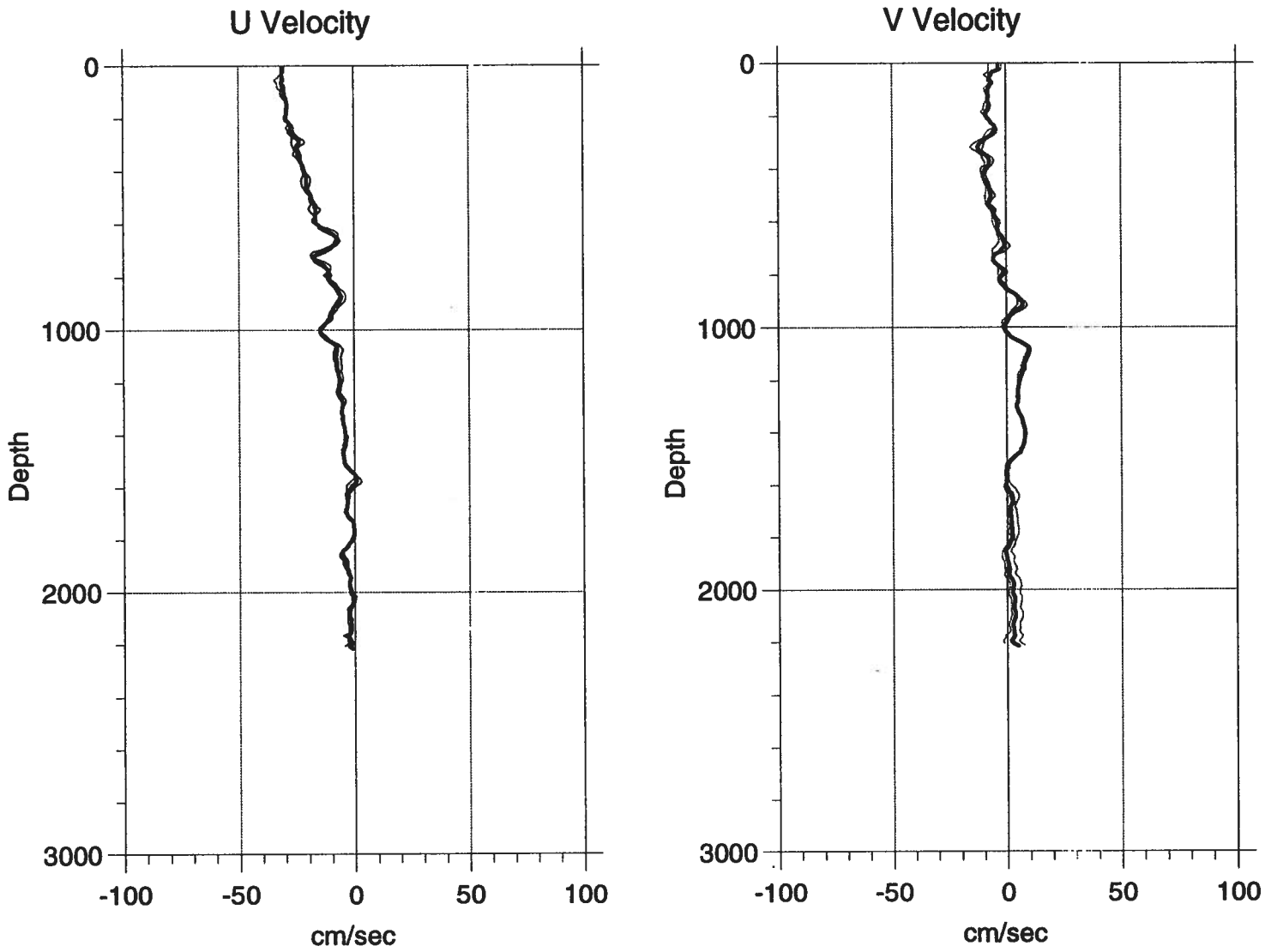


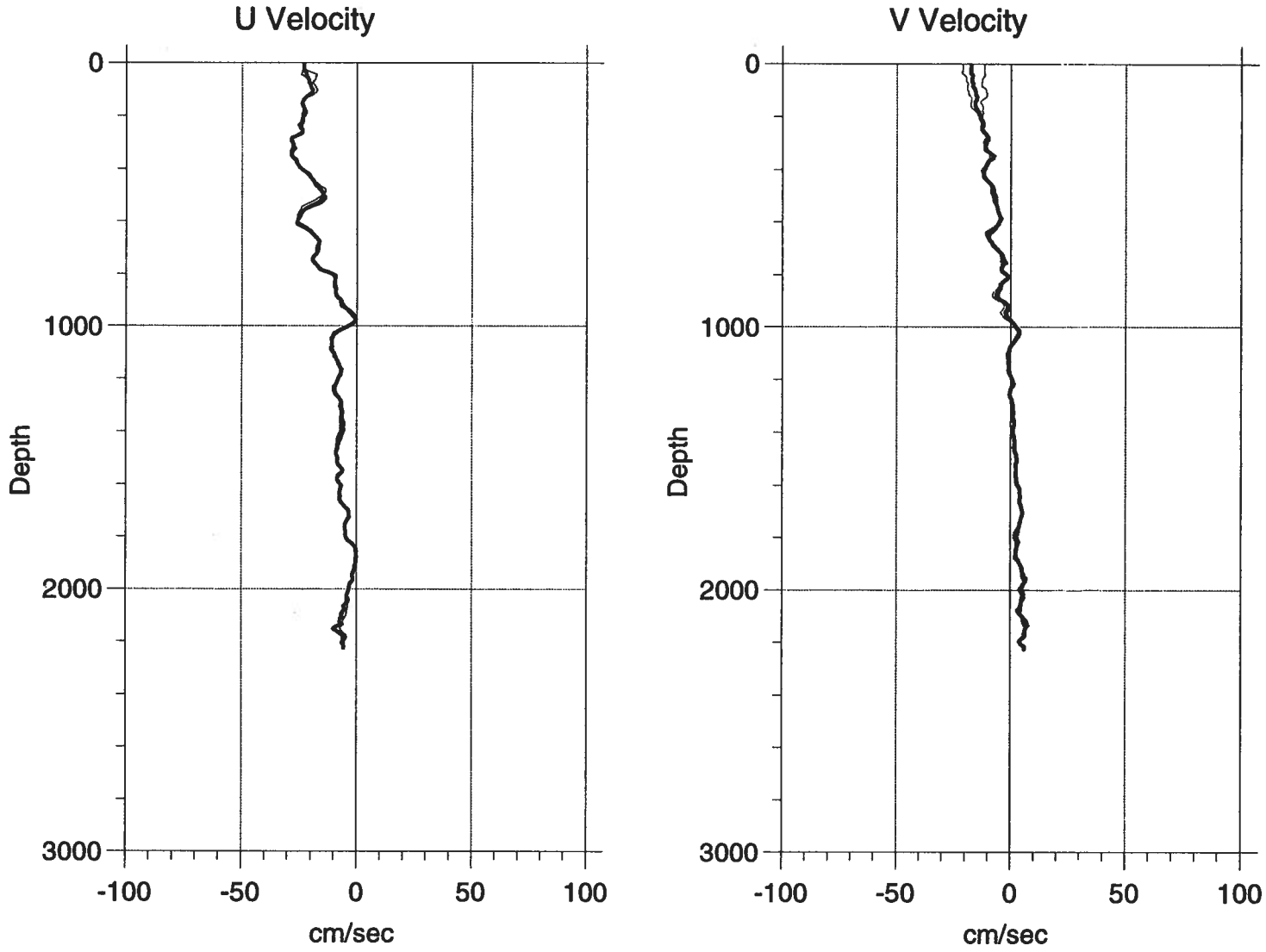
OCT97 - LADCP Station DF97 008
Start Day 252  Time 03:58 Z
Start Location 30 49.81  009 12.78



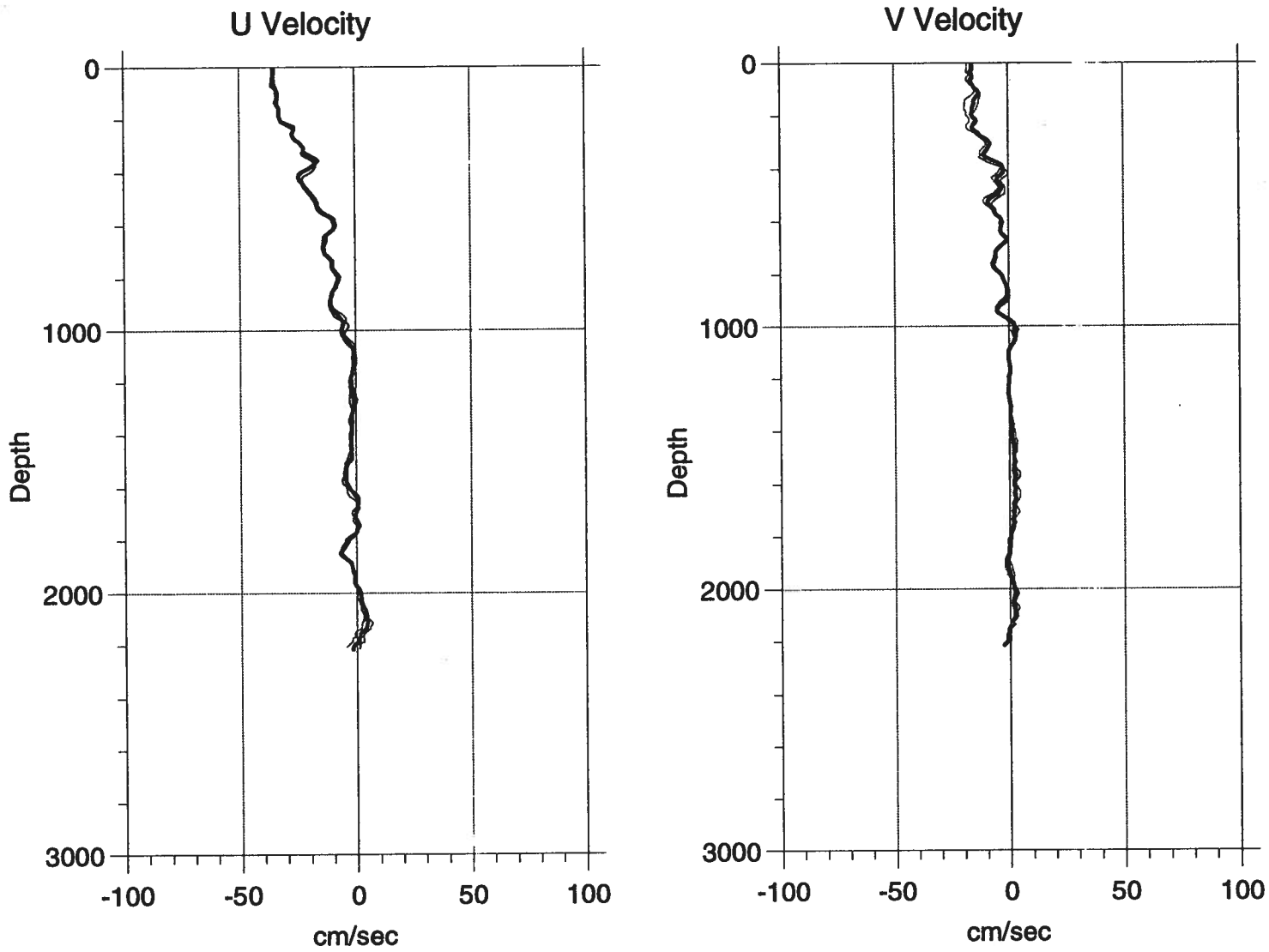
OCT97 - LADCP Station DF97 009
Start Day 252  Time 06:50 Z
Start Location 30 42.32  009  6.93



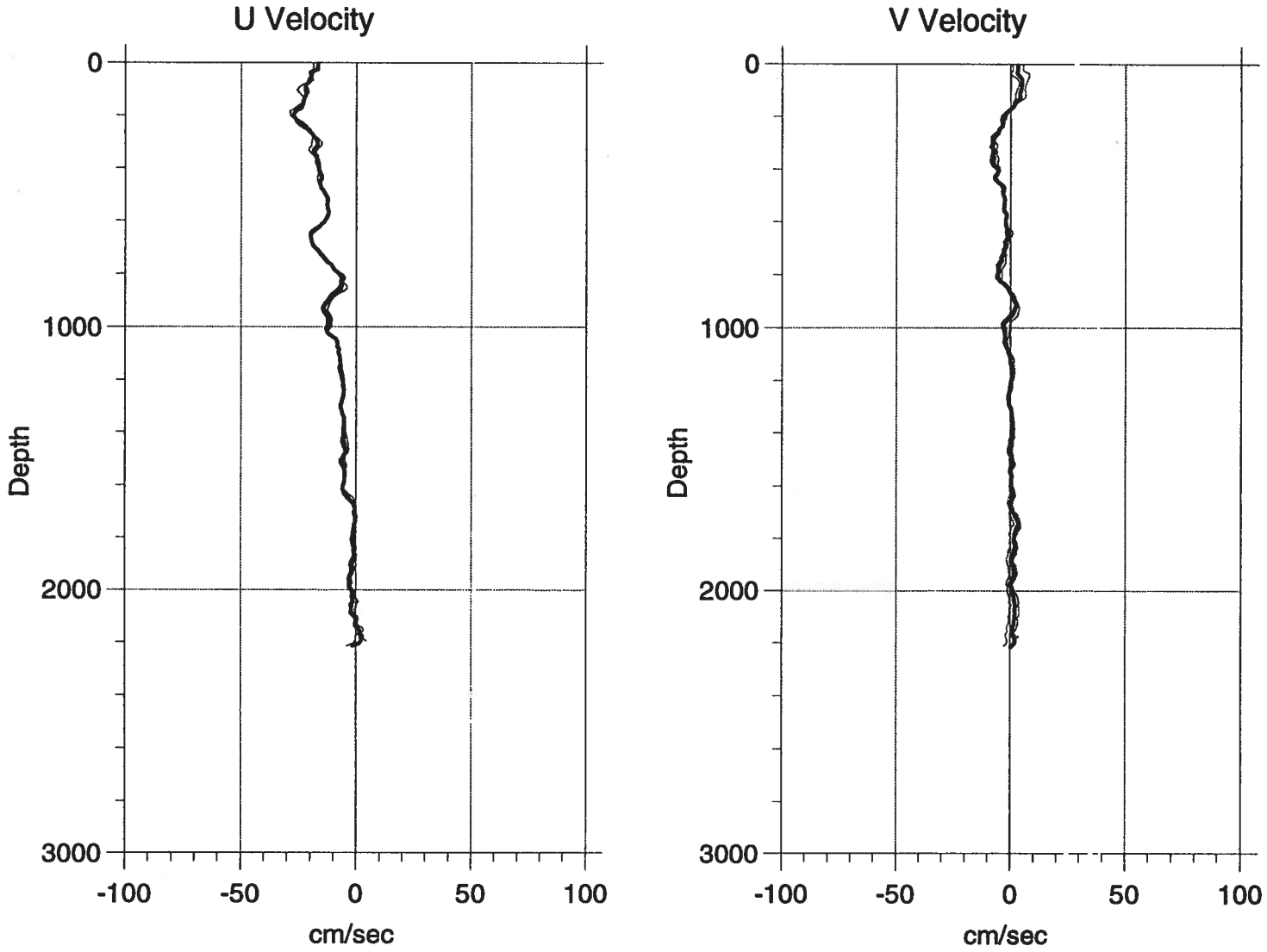
OCT97 - LADCP Station DF97 010
Start Day 252  Time 09:23 Z
Start Location 30 31.76  008 57.88



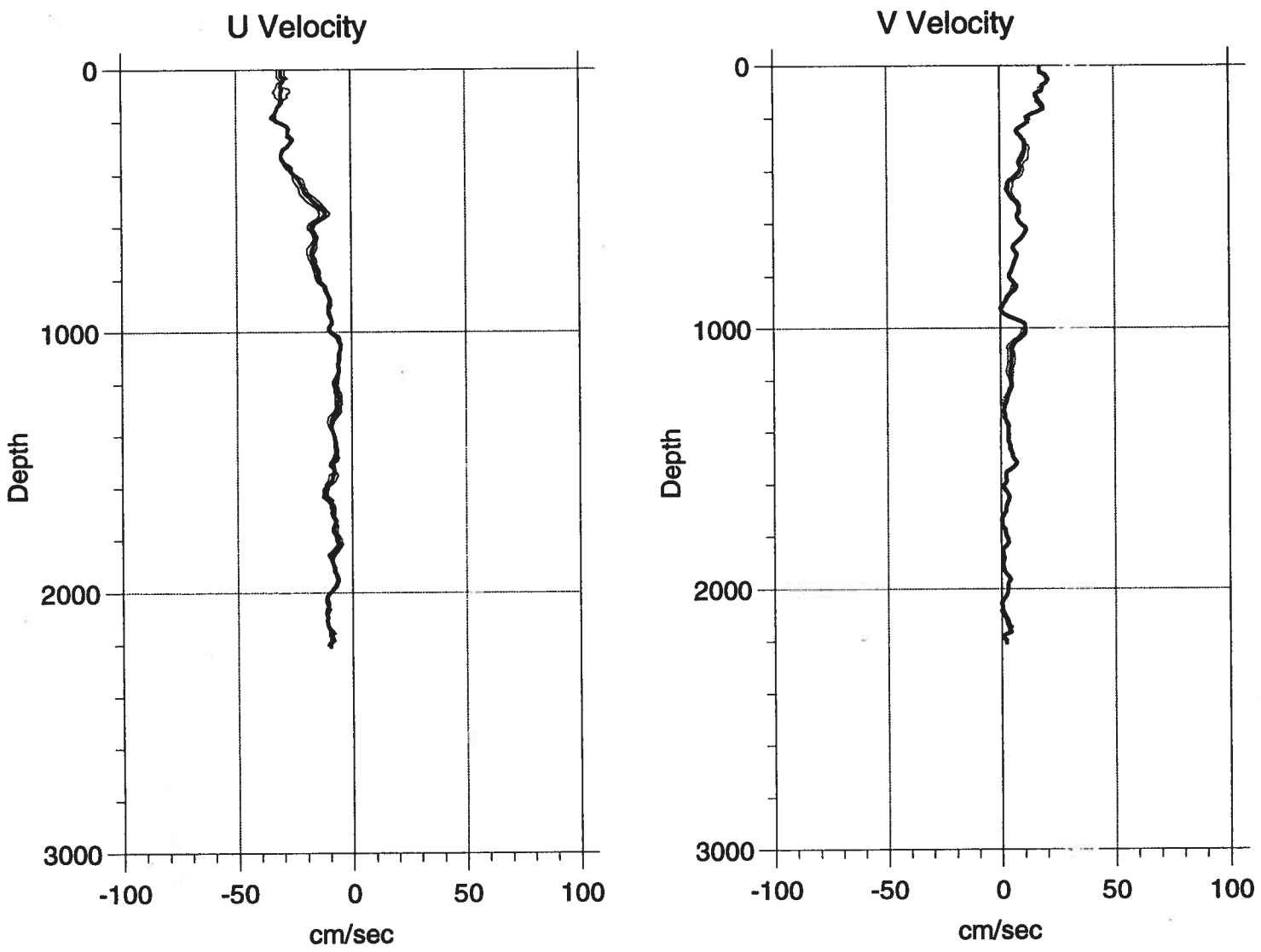
OCT97 - LADCP Station DF97 011
Start Day 252  Time 12:16 Z
Start Location 30 18.03  008 47.57



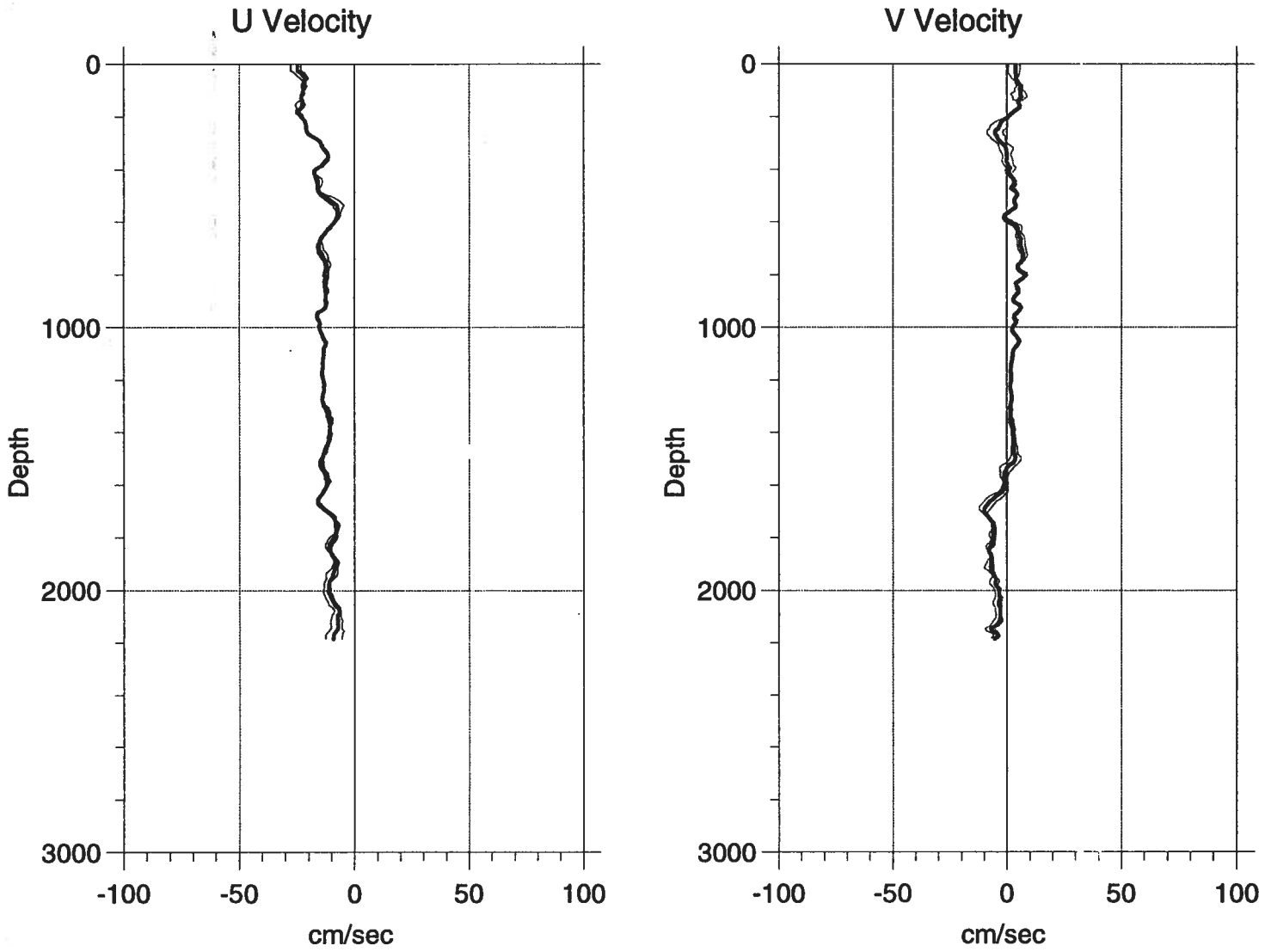
OCT97 - LADCP Station DF97 012
Start Day 252  Time 15:45 Z
Start Location 29 59.99  008 29.91



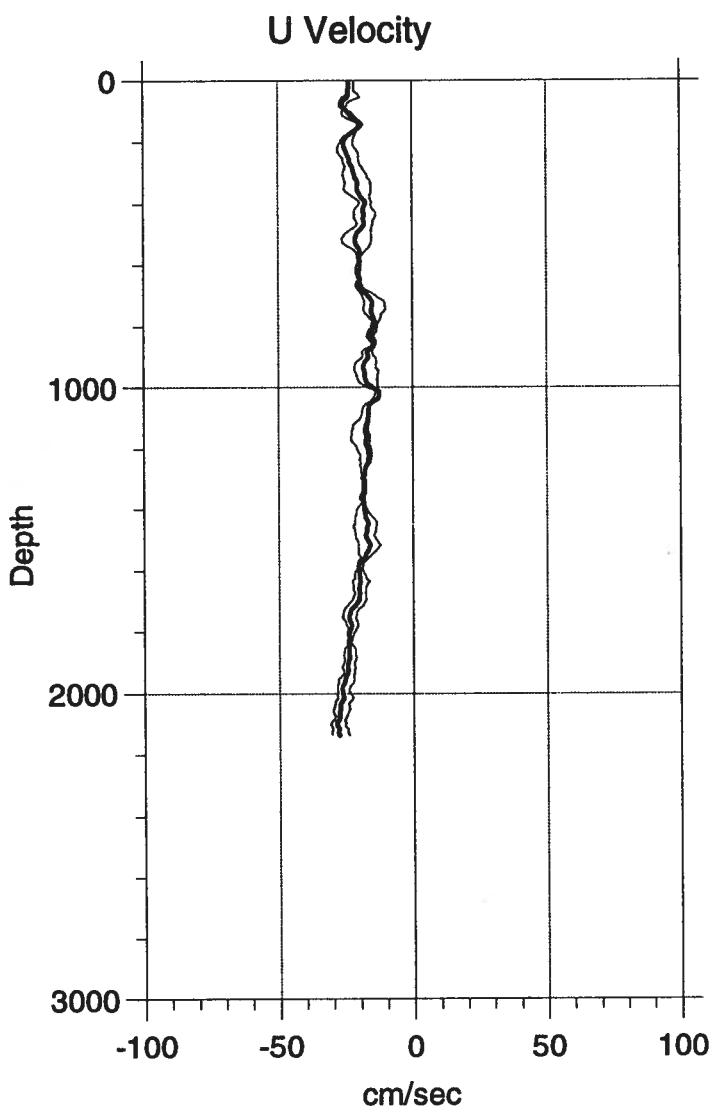
OCT97 - LADCP Station DF97 013
Start Day 252 Time 22:16 Z
Start Location 30 0.08 007 20.13

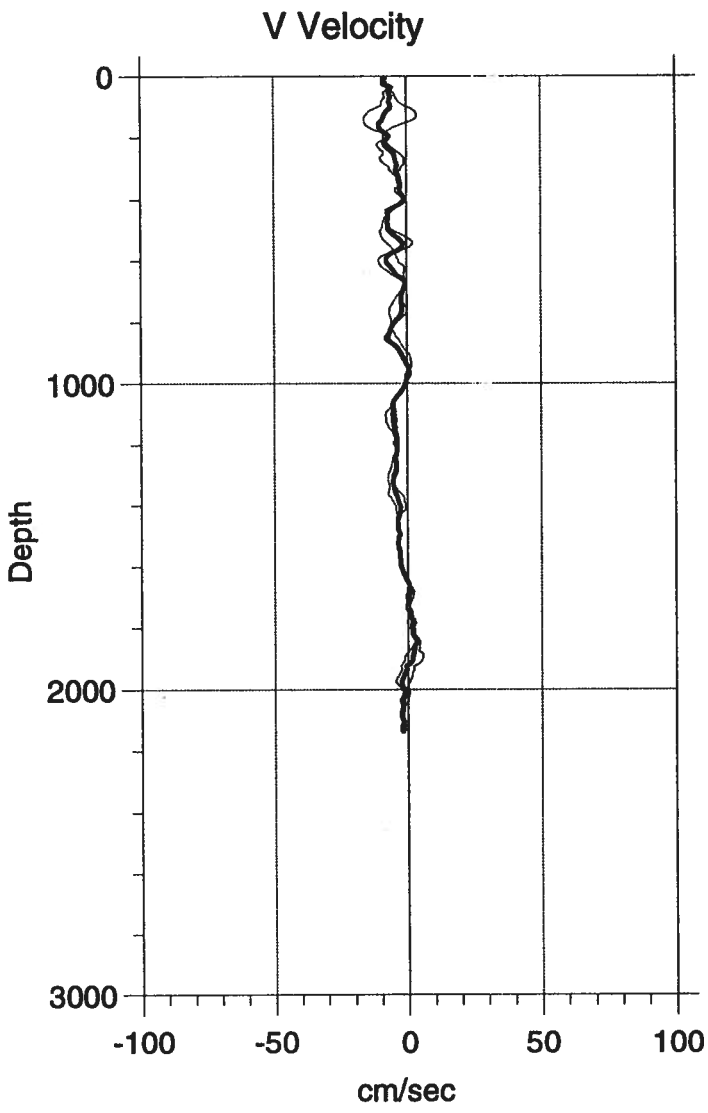


OCT97 - LADCP Station DF97 014
Start Day 253  Time 04:40 Z
Start Location 30  0.01  006  9.79

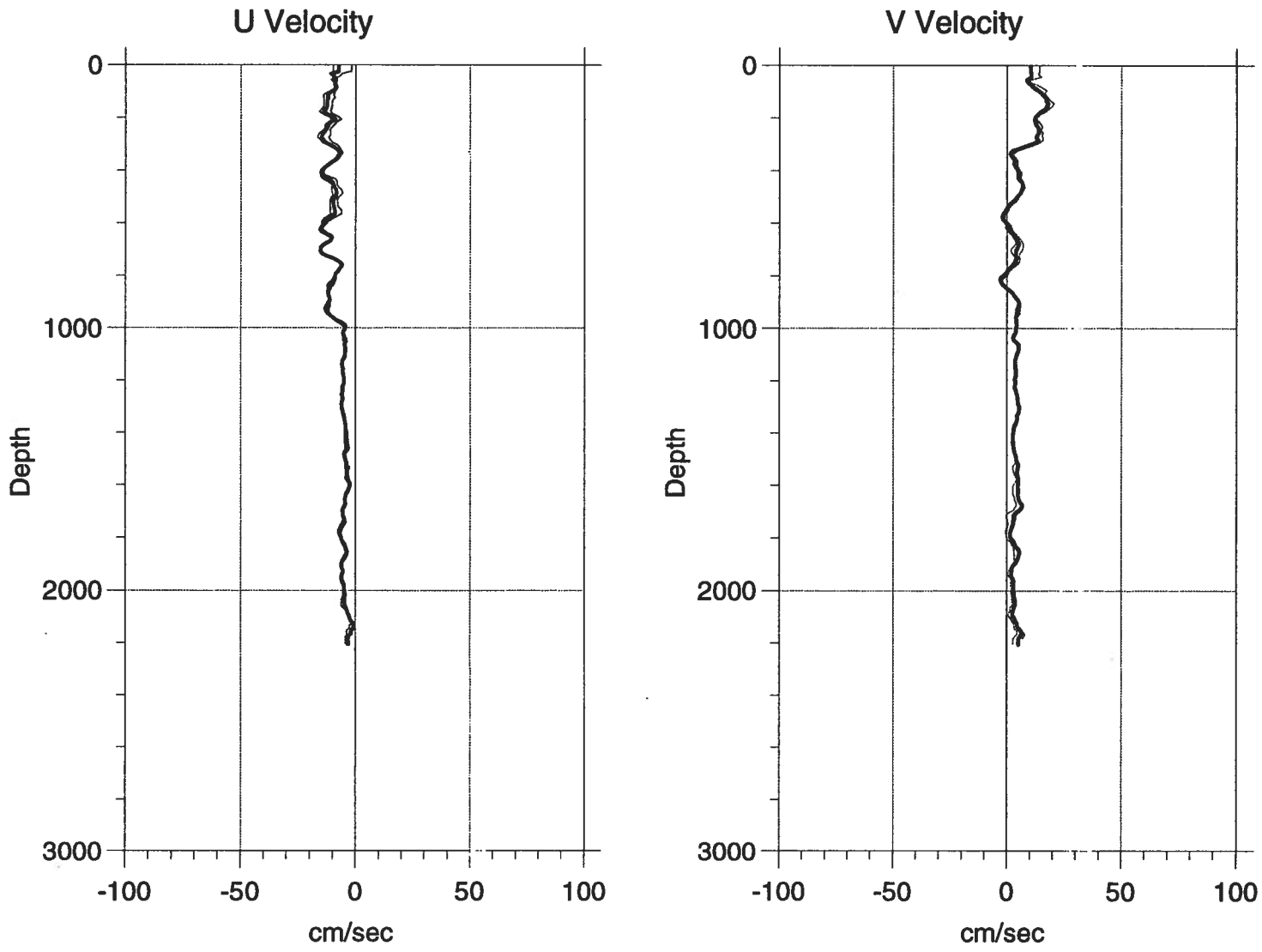


OCT97 - LADCP Station DF97 015
Start Day 253 Time 11:24 Z
Start Location 30 0.11 004 59.81

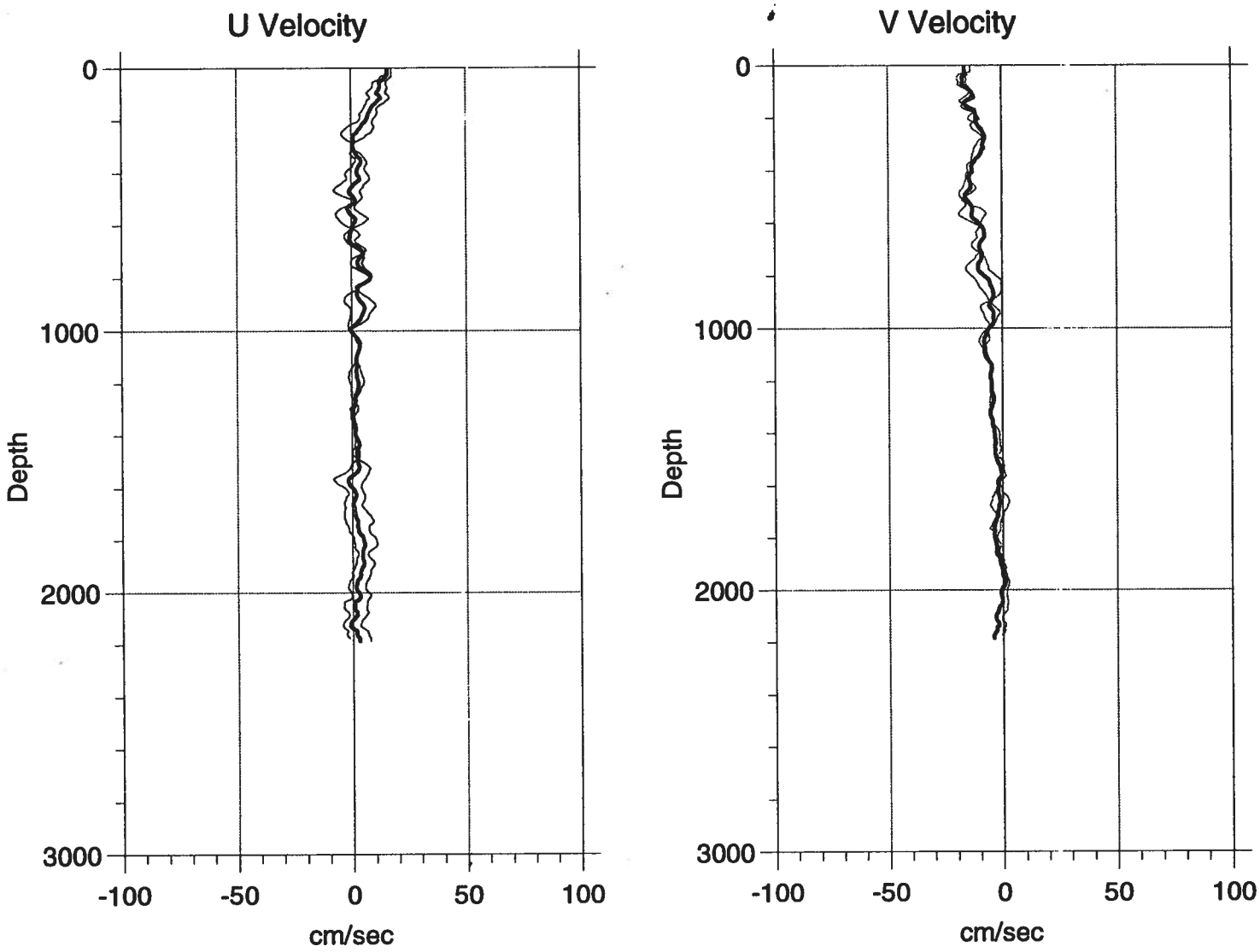


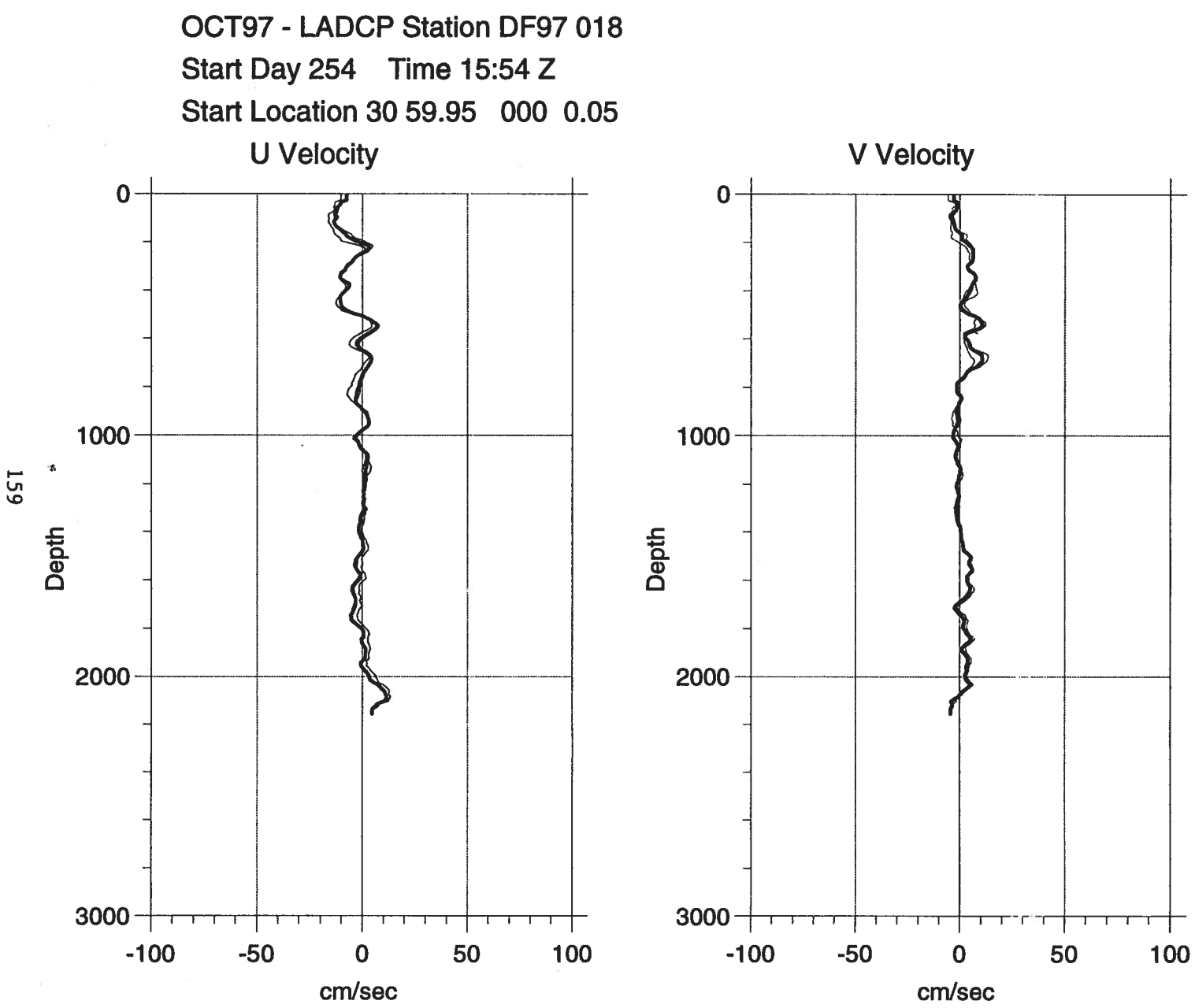



OCT97 - LADCP Station DF97 016
Start Day 253  Time 17:51 Z
Start Location 30  0.01  003 50.11

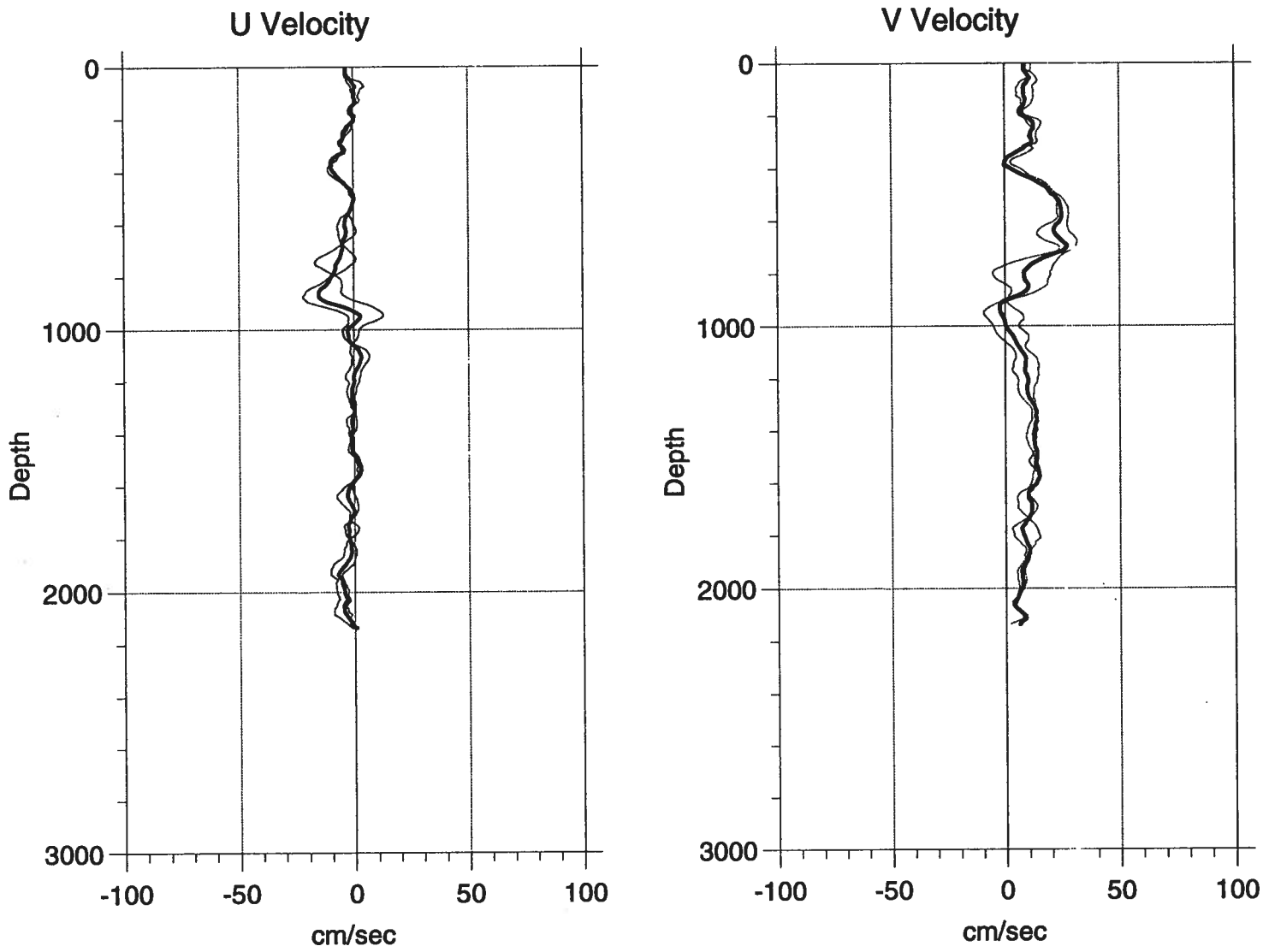


OCT97 - LADCP Station DF97 017
Start Day 254 Time 04:01 Z
Start Location 30 0.10 001 59.94

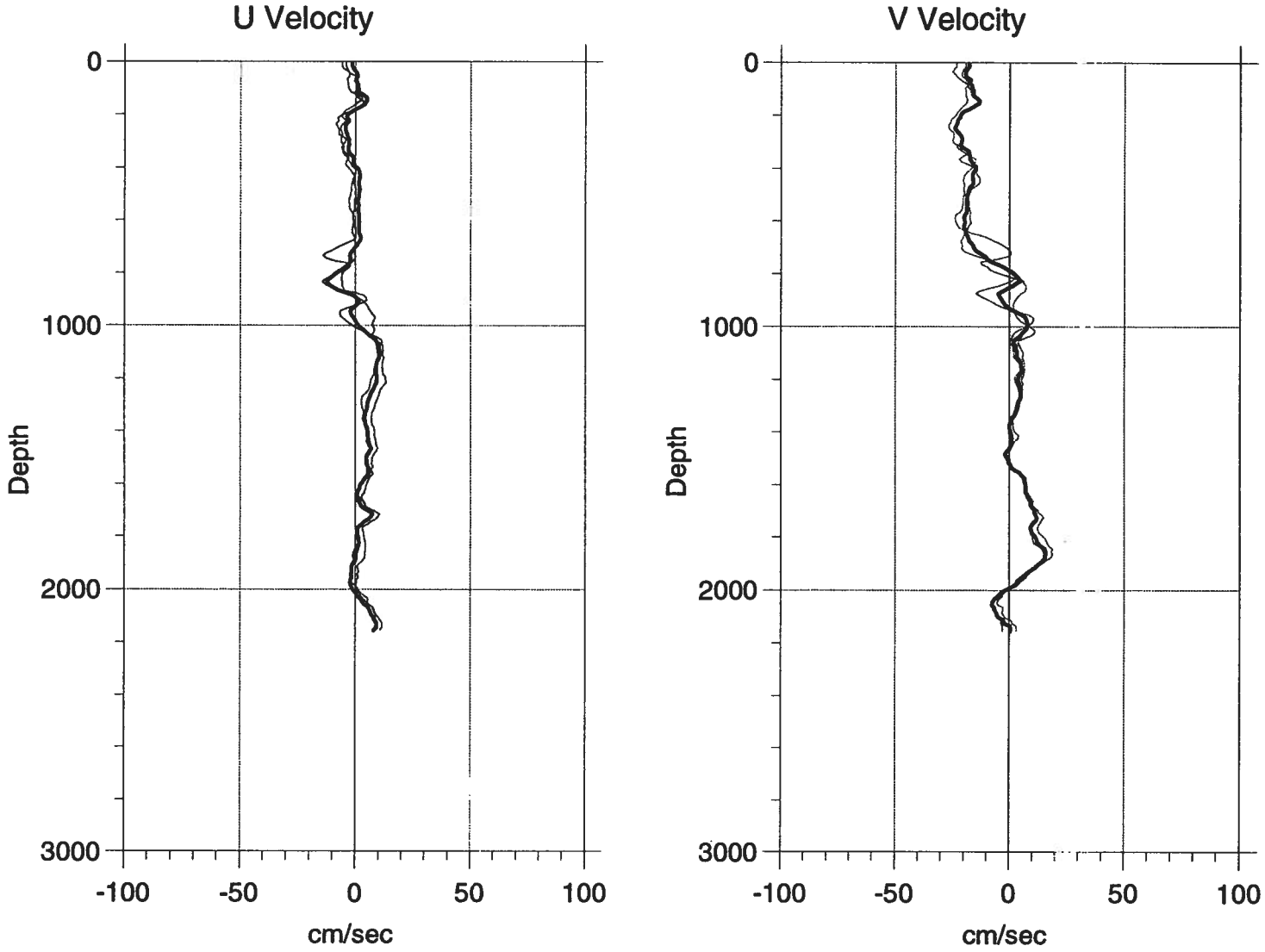



OCT97 - LADCP Station DF97 018
Start Day 254 Time 15:54 Z
Start Location 30 59.95 000 0.05
U Velocity
V Velocity
Depth
0
1000
2000
3000
-100
-50
0
50
100
cm/sec

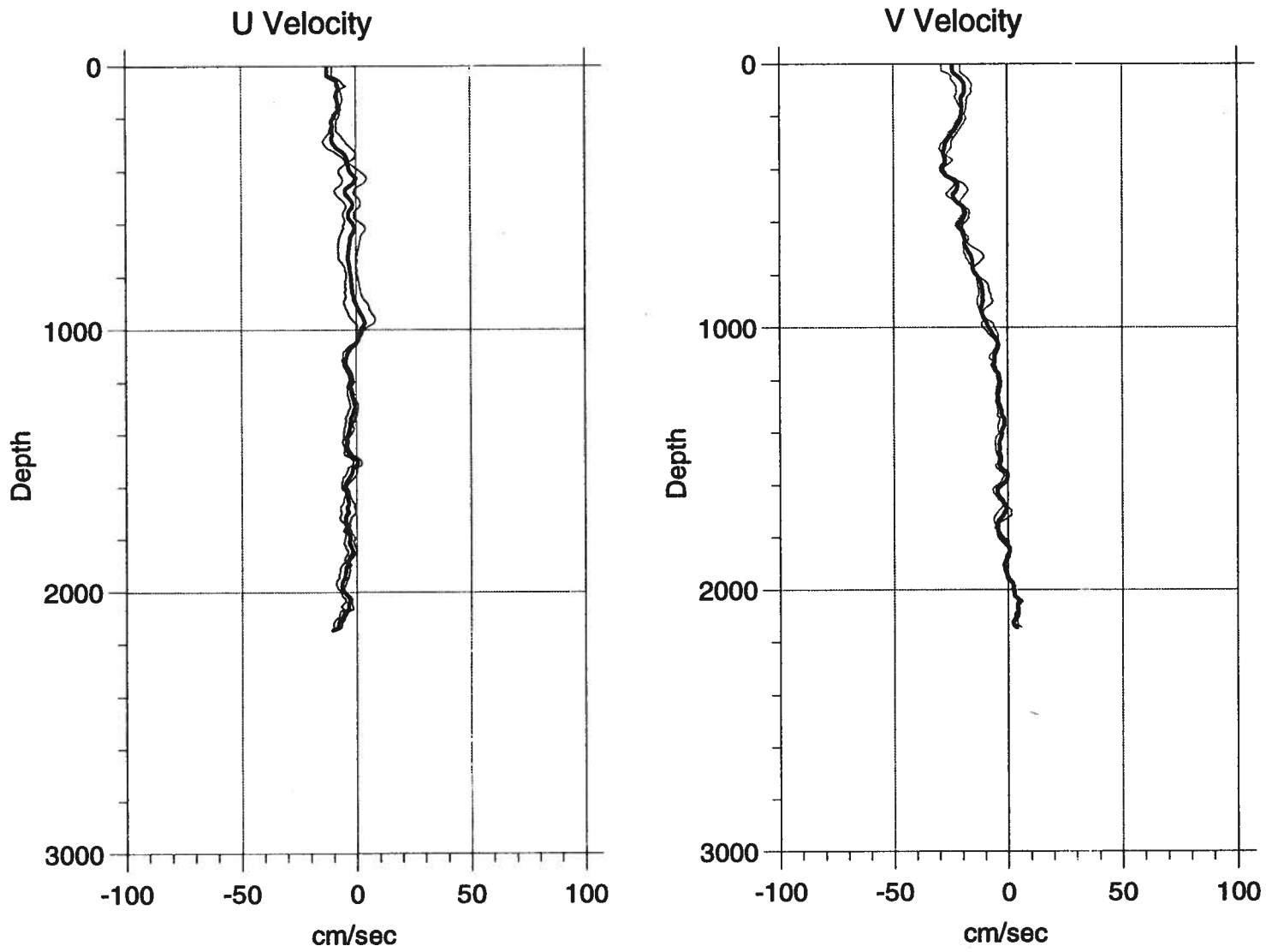
OCT97 - LADCP Station DF97 019
Start Day 257  Time 04:42 Z
Start Location 31 26.90  002 16.40



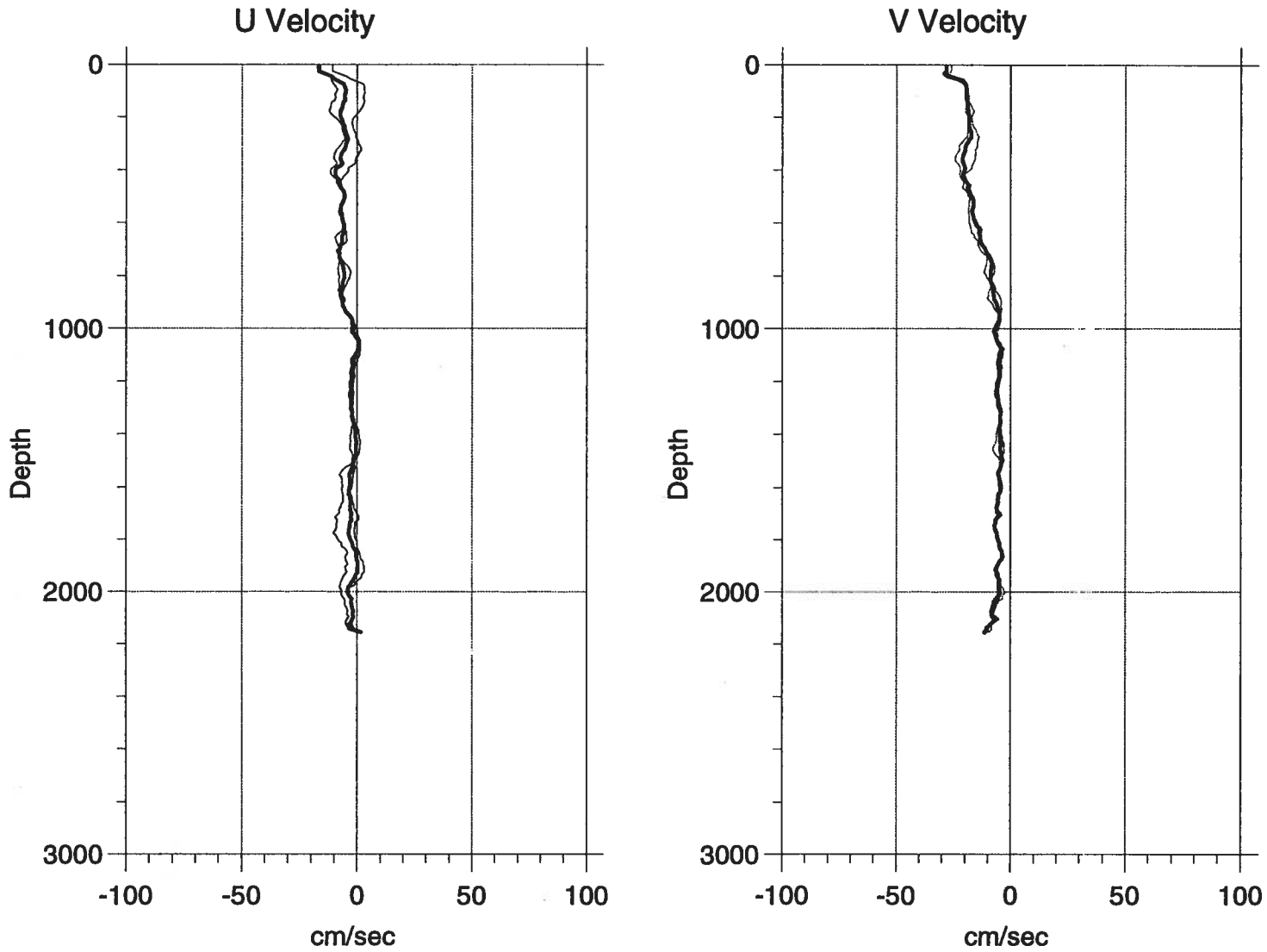
OCT97 - LADCP Station DF97 020
Start Day 257  Time 08:19 Z
Start Location 31 26.97  002 35.37



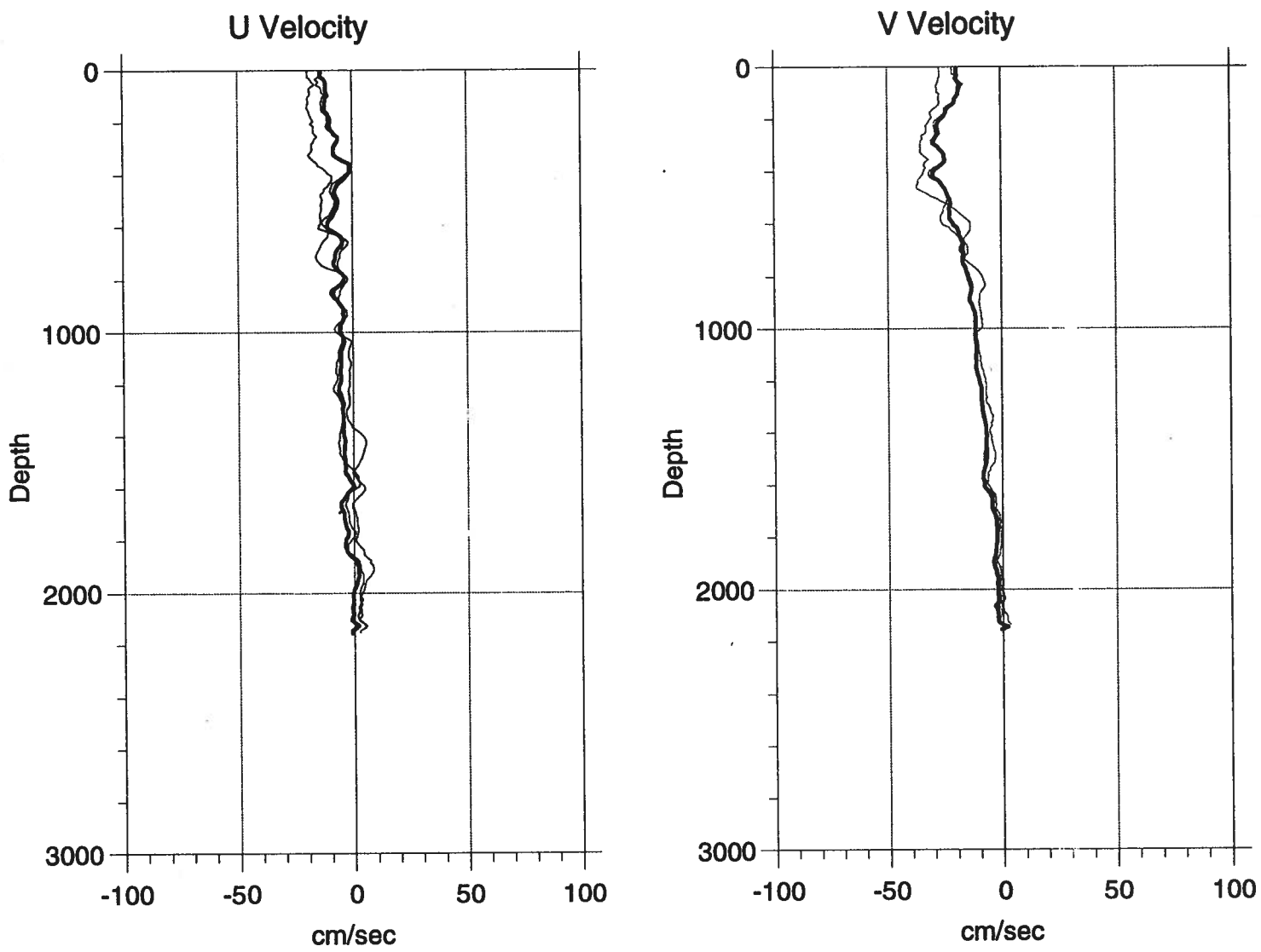
OCT97 - LADCP Station DF97 021
Start Day 257  Time 11:21 Z
Start Location 31 27.54  002 54.92

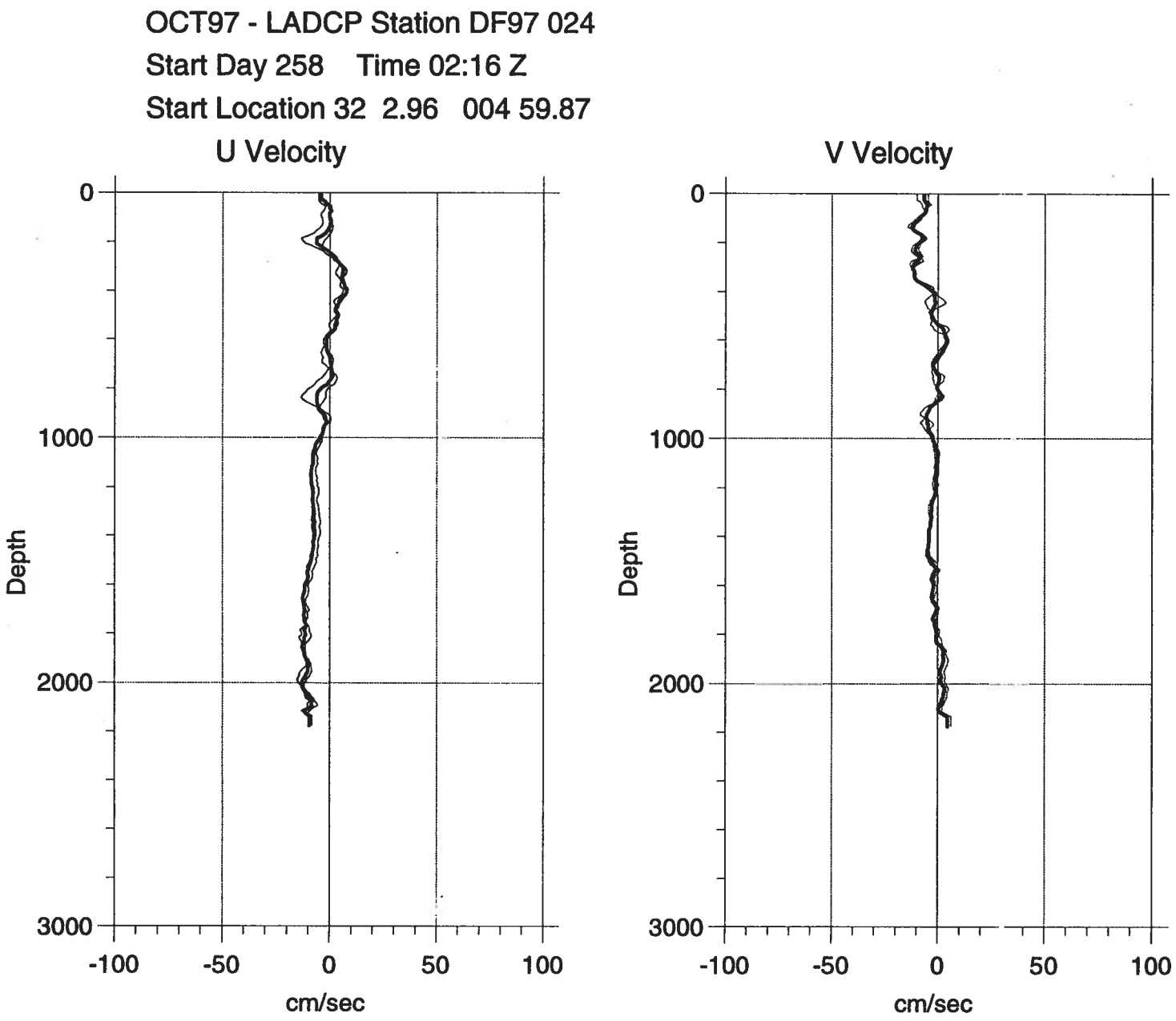


OCT97 - LADCP Station DF97 022
Start Day 257  Time 14:37 Z
Start Location 31 28.15  003 18.94

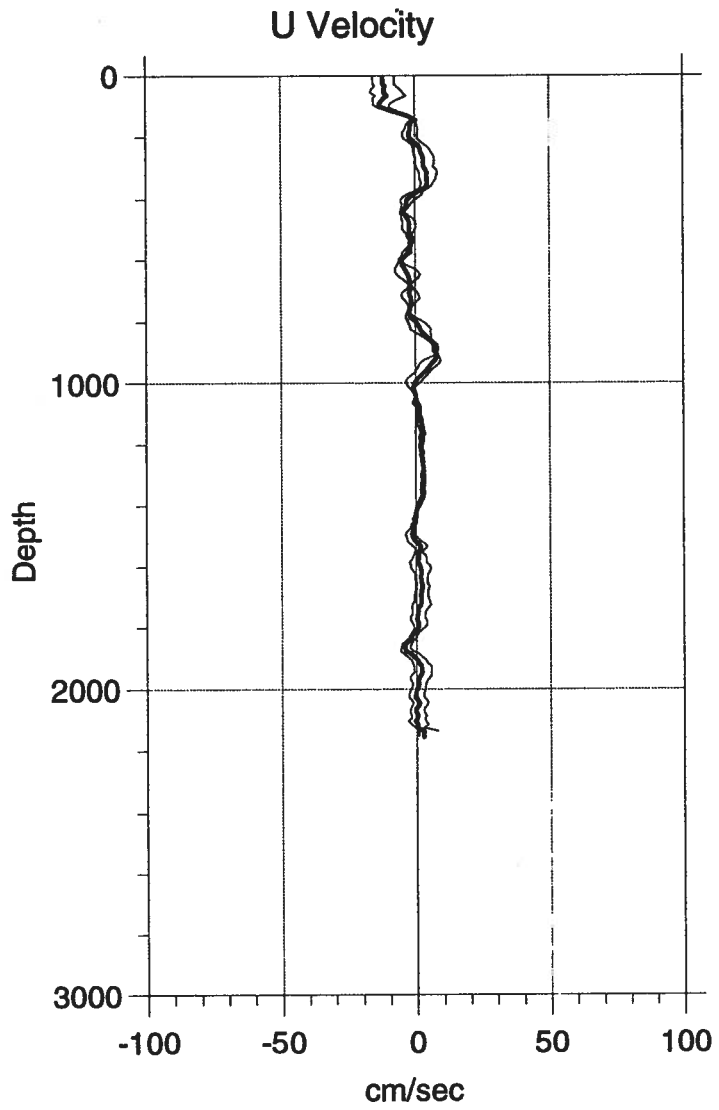


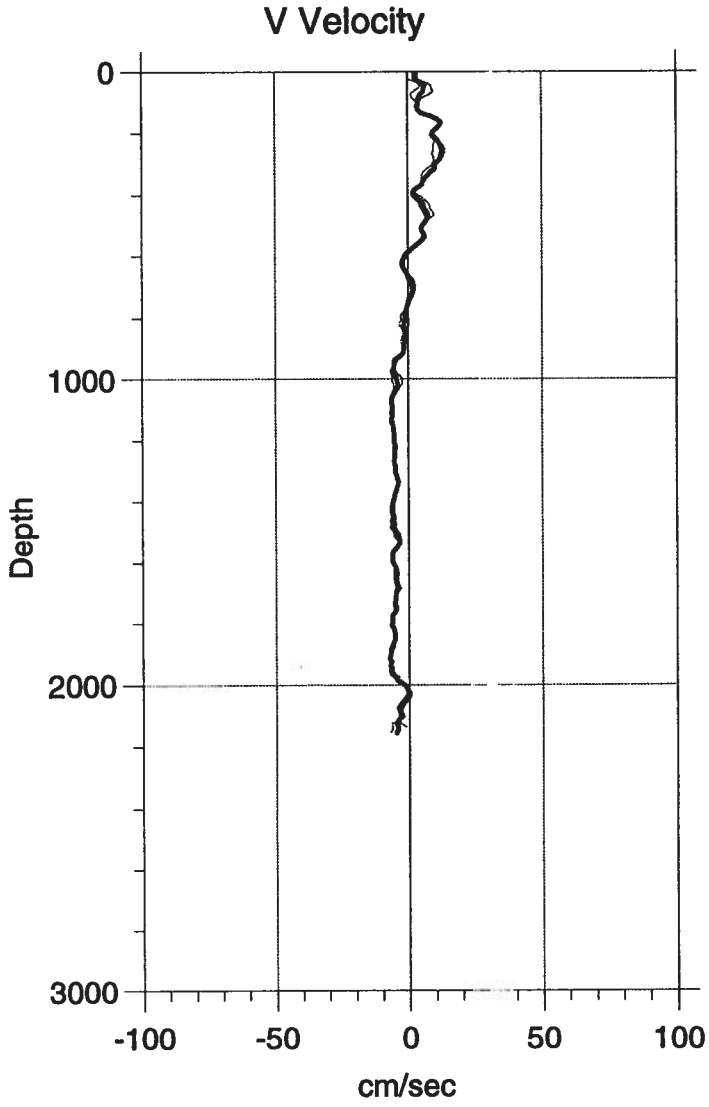
OCT97 - LADCP Station DF97 023
Start Day 257  Time 18:02 Z
Start Location 31 27.96  003 43.03



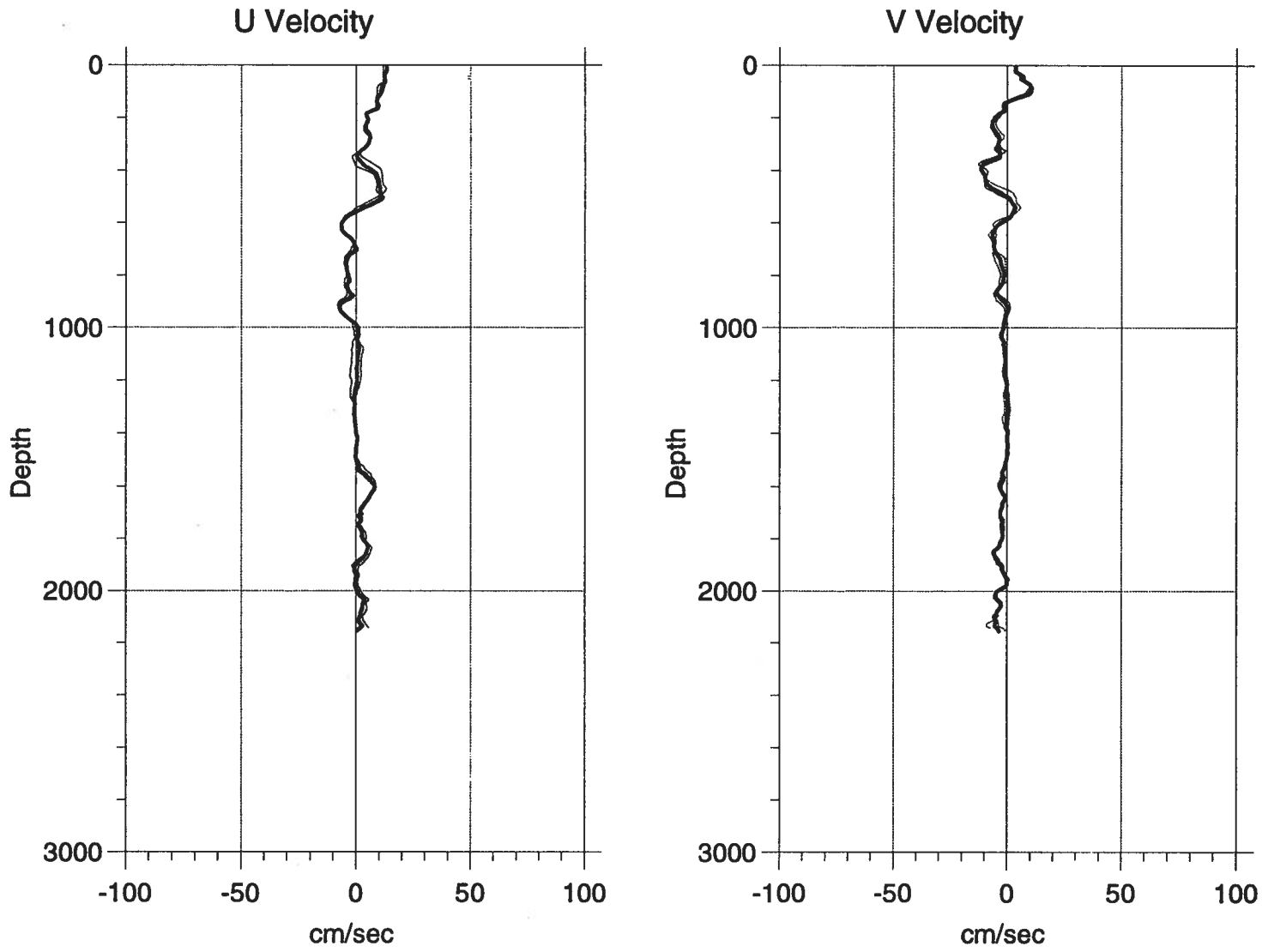

OCT97 - LADCP Station DF97 024
Start Day 258 Time 02:16 Z
Start Location 32 2.96 004 59.87
U Velocity
V Velocity
Depth
0
1000
2000
3000
-100
-50
0
50
100
cm/sec

OCT97 - LADCP Station DF97 025
Start Day 258  Time 13:49 Z
Start Location 32 59.91  007  0.13

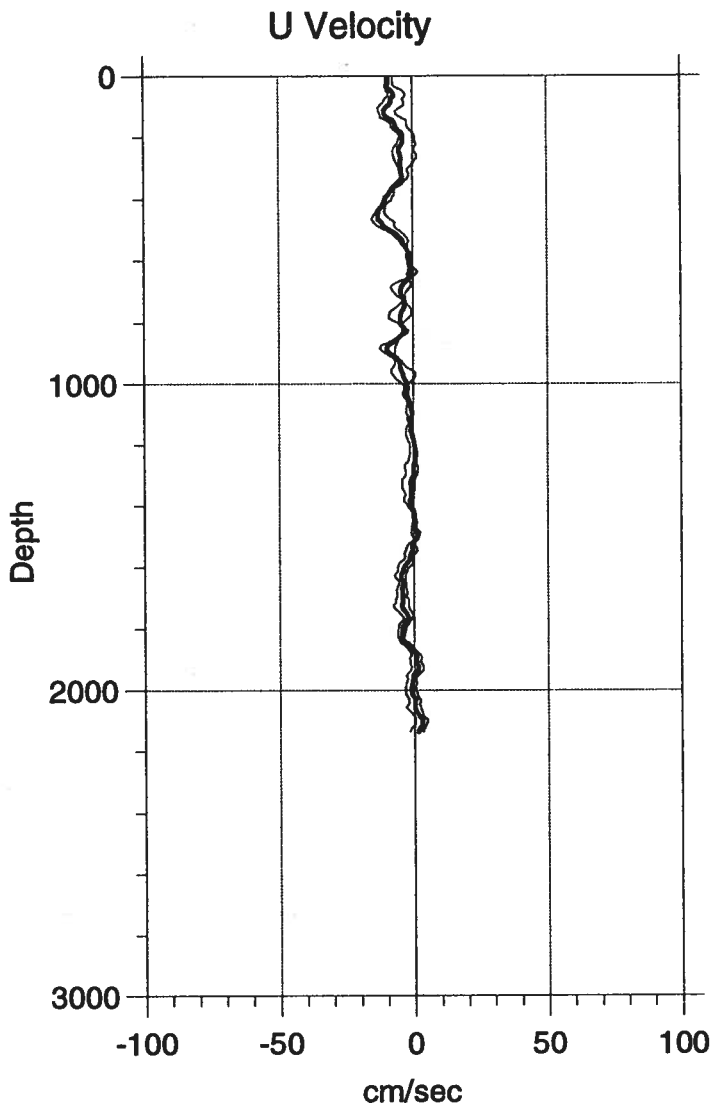


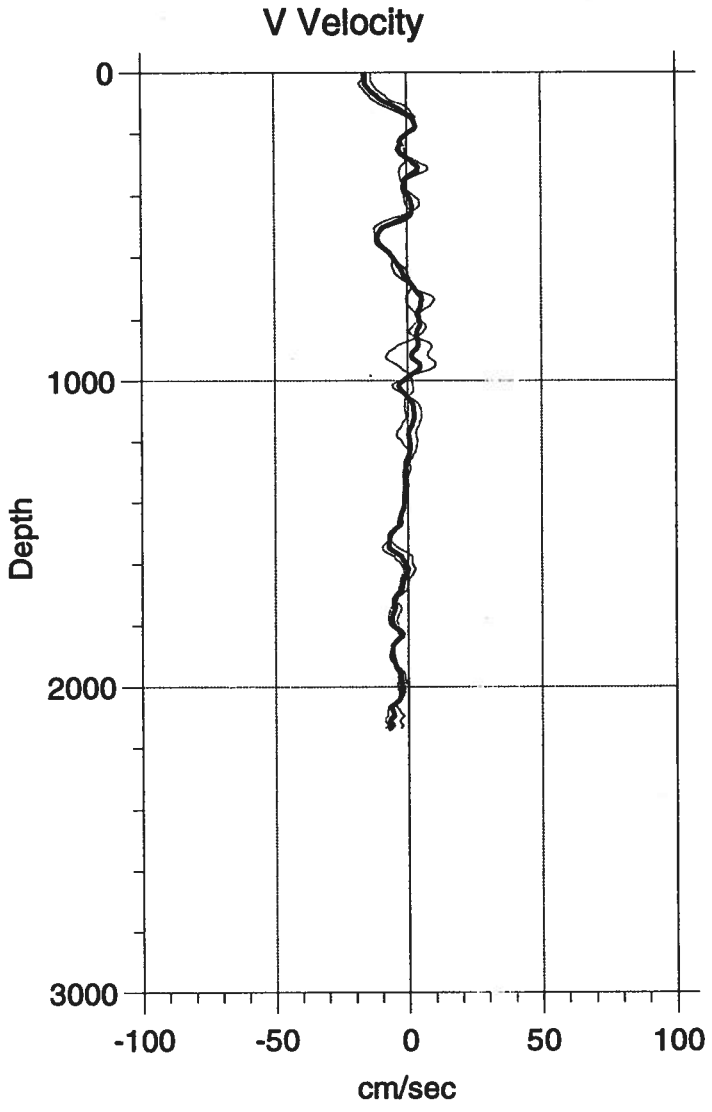



OCT97 - LADCP Station DF97 026
Start Day 258  Time 20:36 Z
Start Location 31 59.85  006 59.83

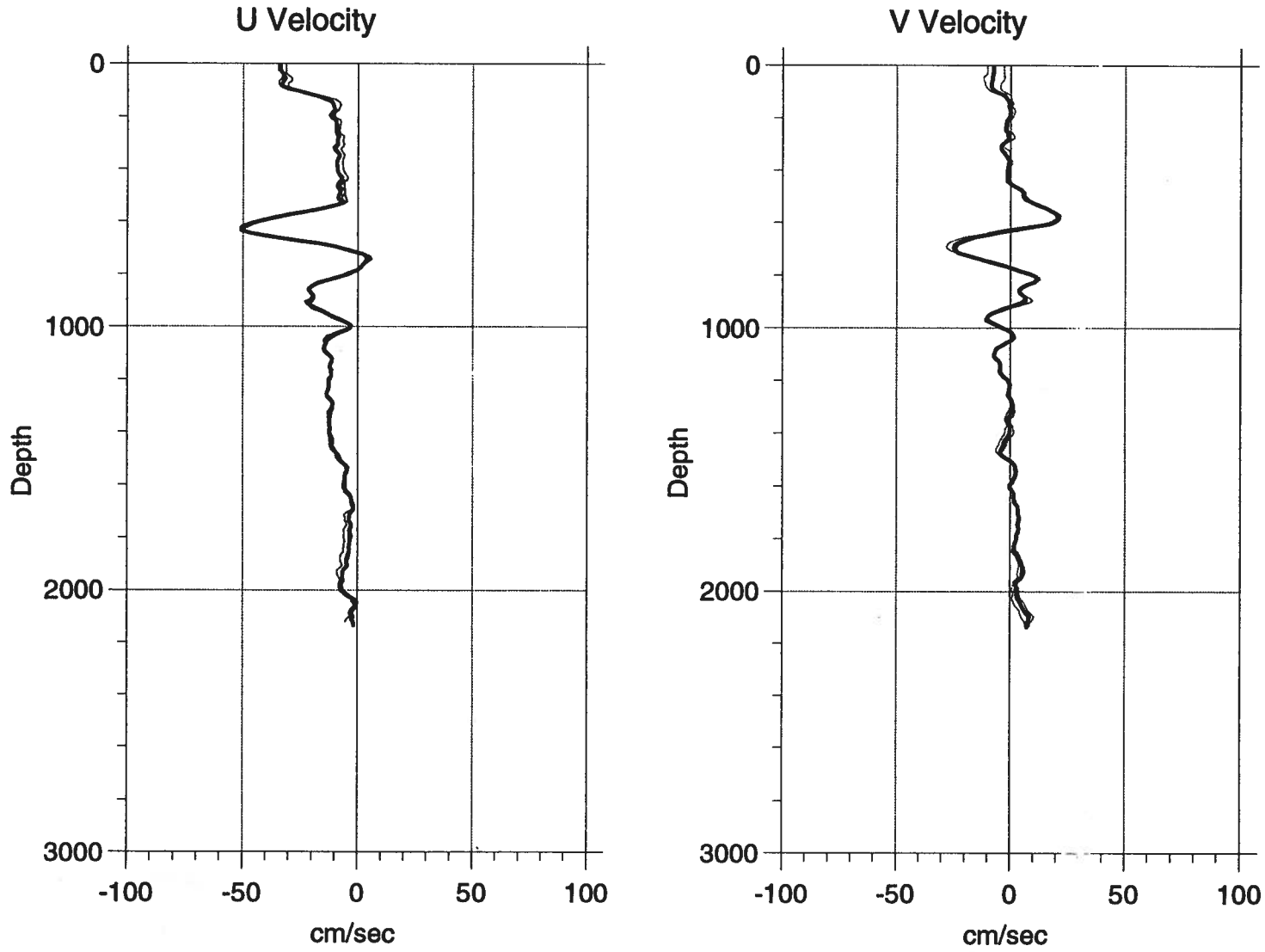


OCT97 - LADCP Station DF97 027
Start Day 259 Time 03:28 Z
Start Location 30 59.98 006 59.93

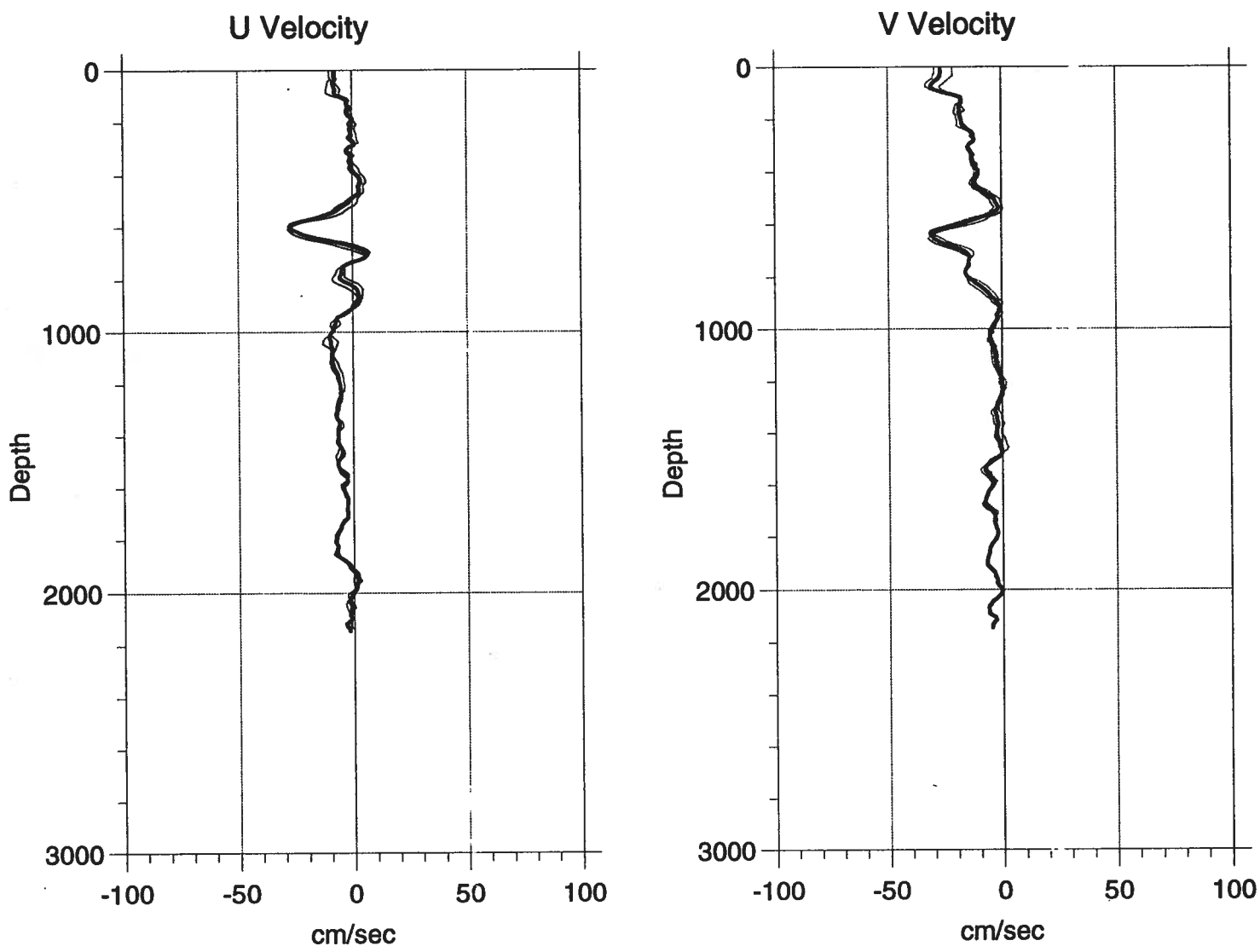


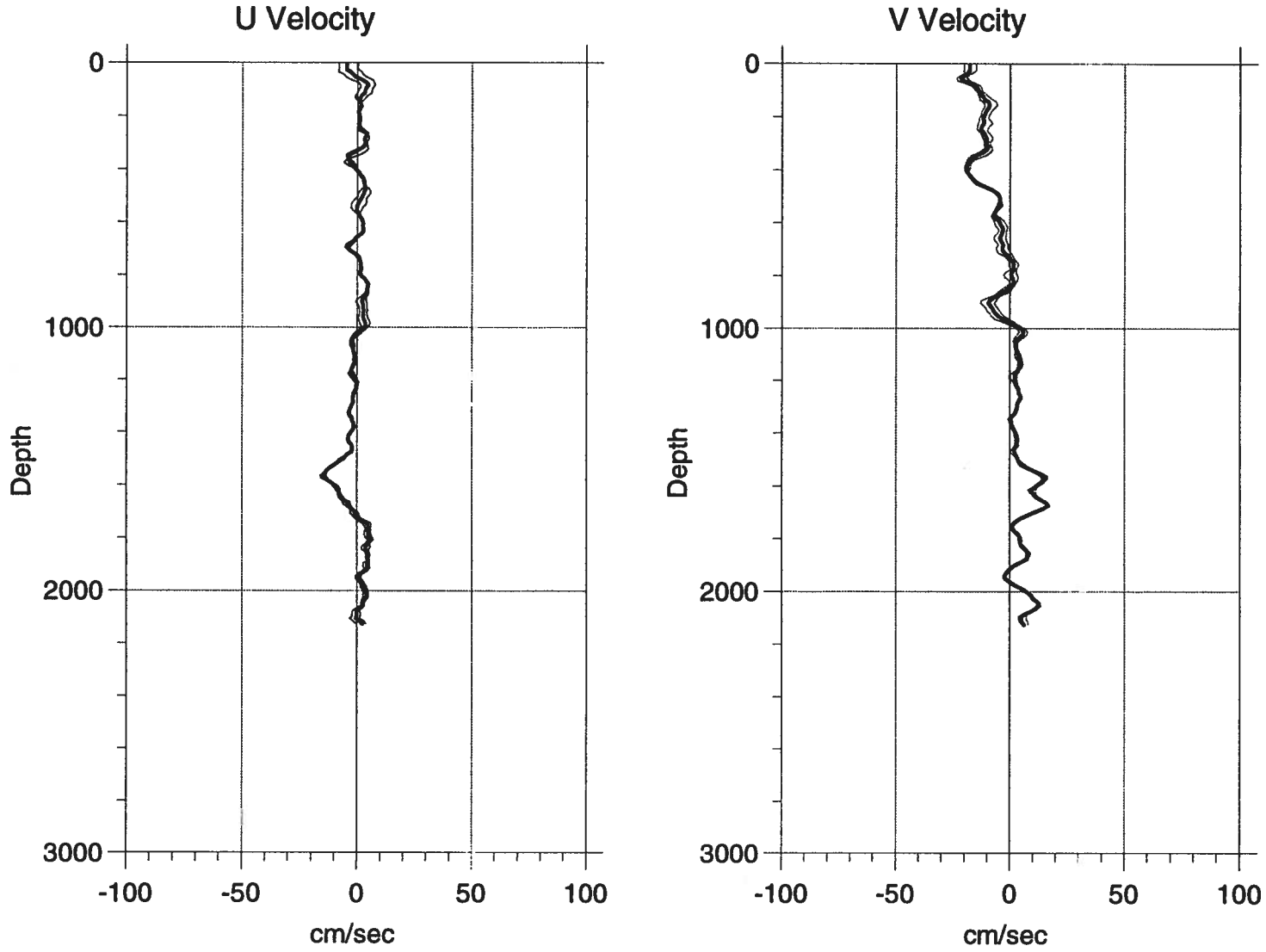
OCT97 - LADCP Station DF97 028
Start Day 260  Time 18:13 Z
Start Location 29 46.90  006  5.07



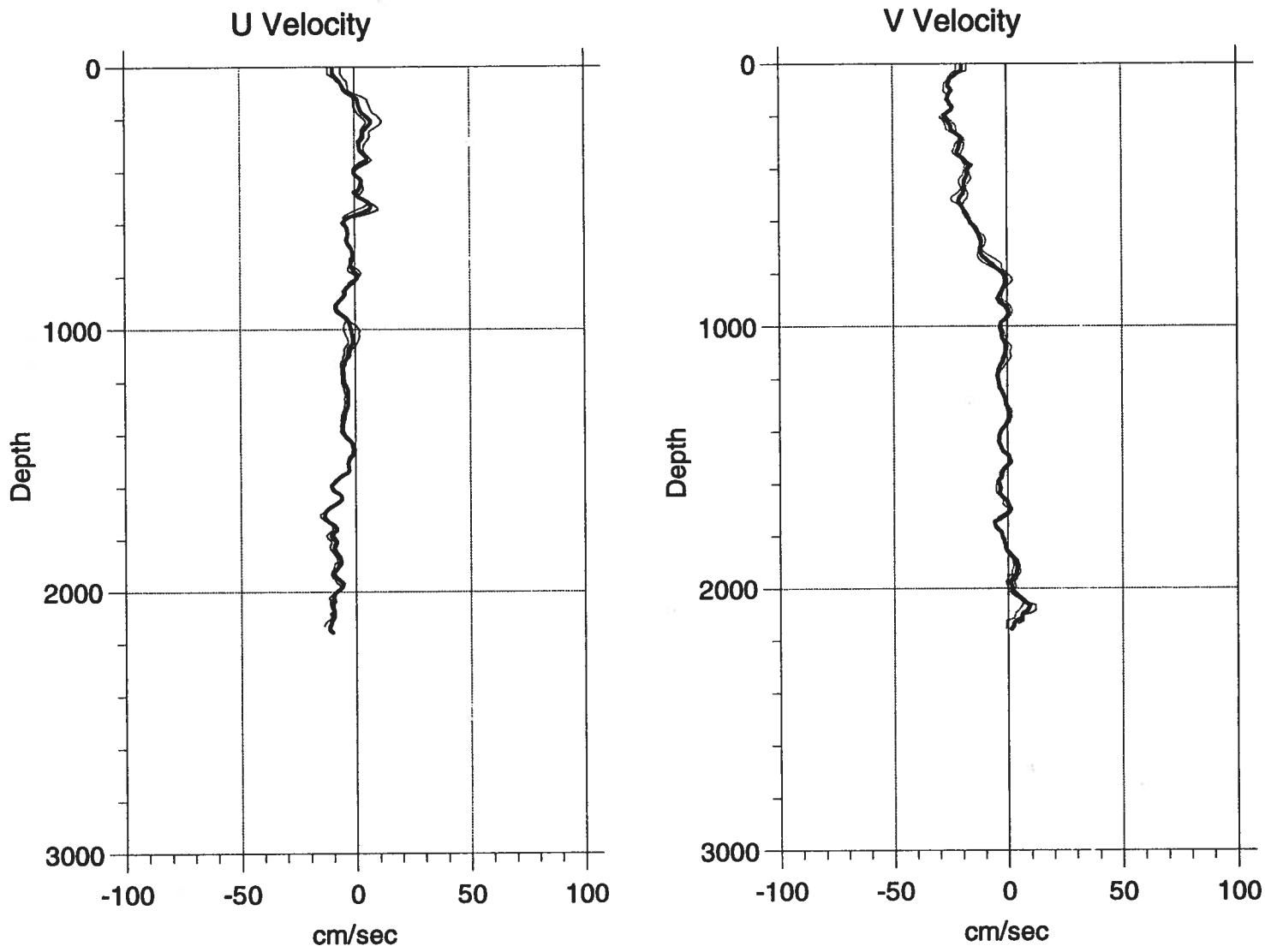
OCT97 - LADCP Station DF97 029
Start Day 260 Time 20:43 Z
Start Location 29 48.52 006 16.51



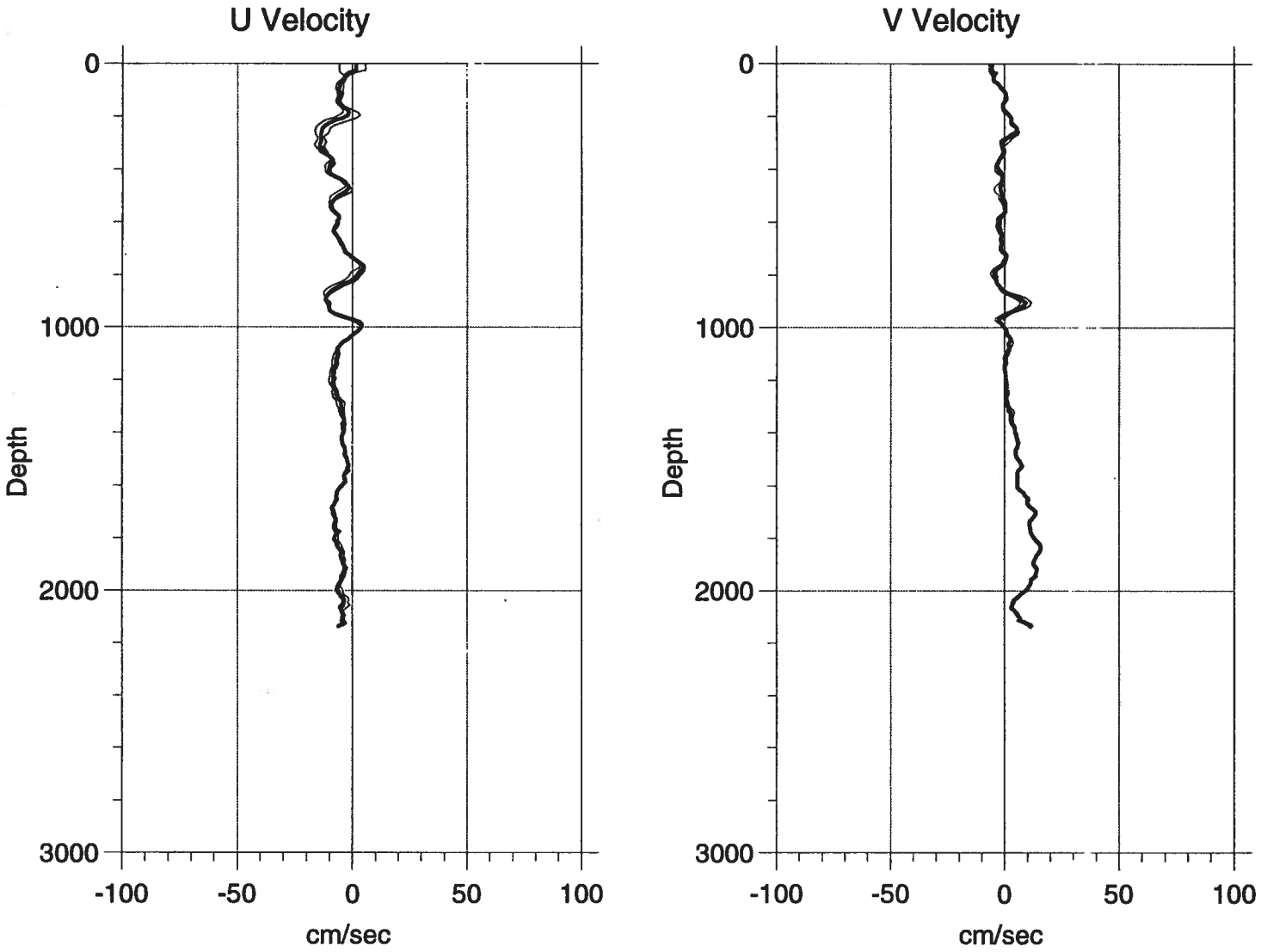
OCT97 - LADCP Station DF97 031
Start Day 261 Time 01:41 Z
Start Location 29 51.43 006 41.53



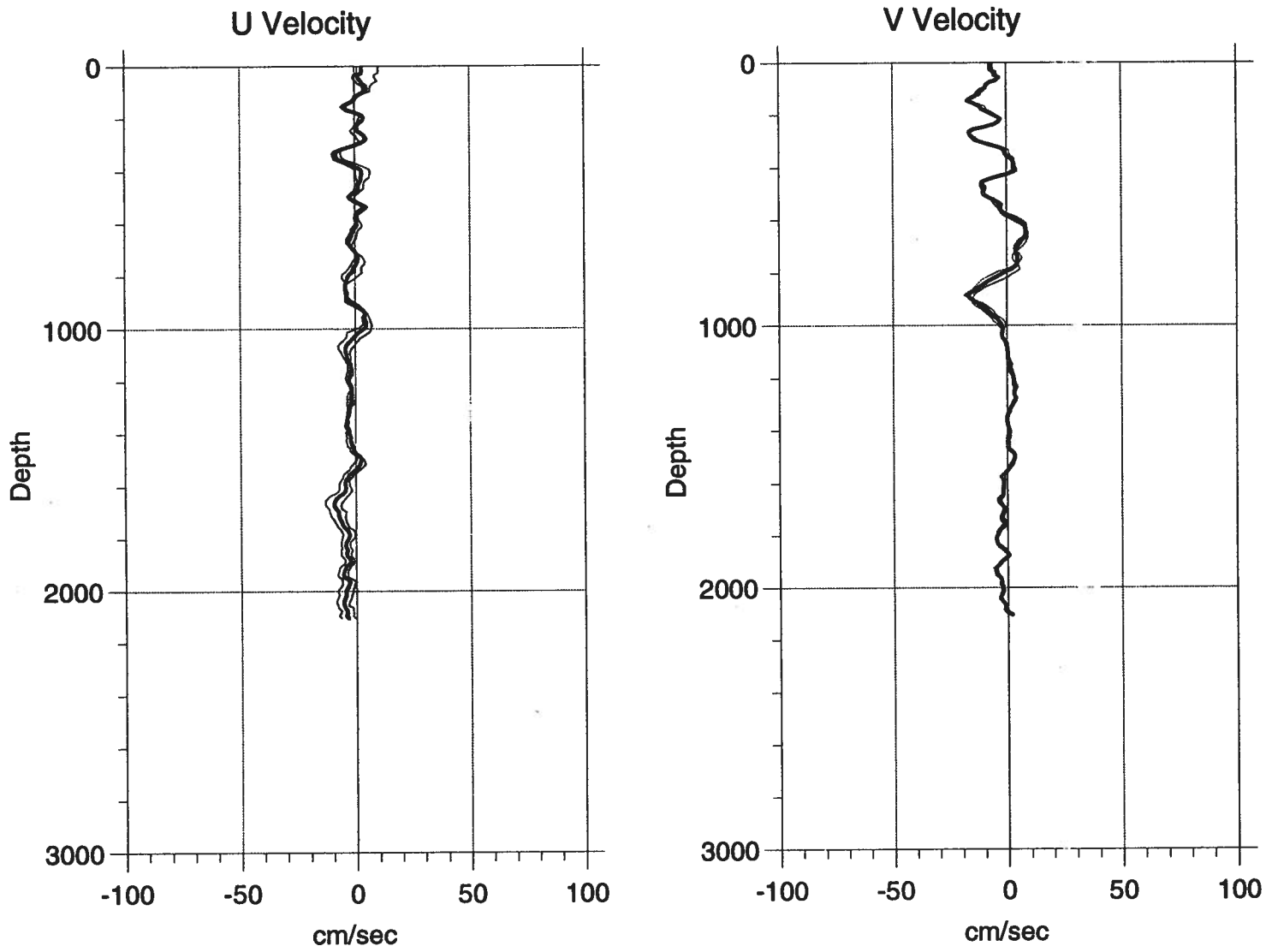
OCT97 - LADCP Station DF97 032
Start Day 261  Time 04:39 Z
Start Location 29 54.01  007  0.17



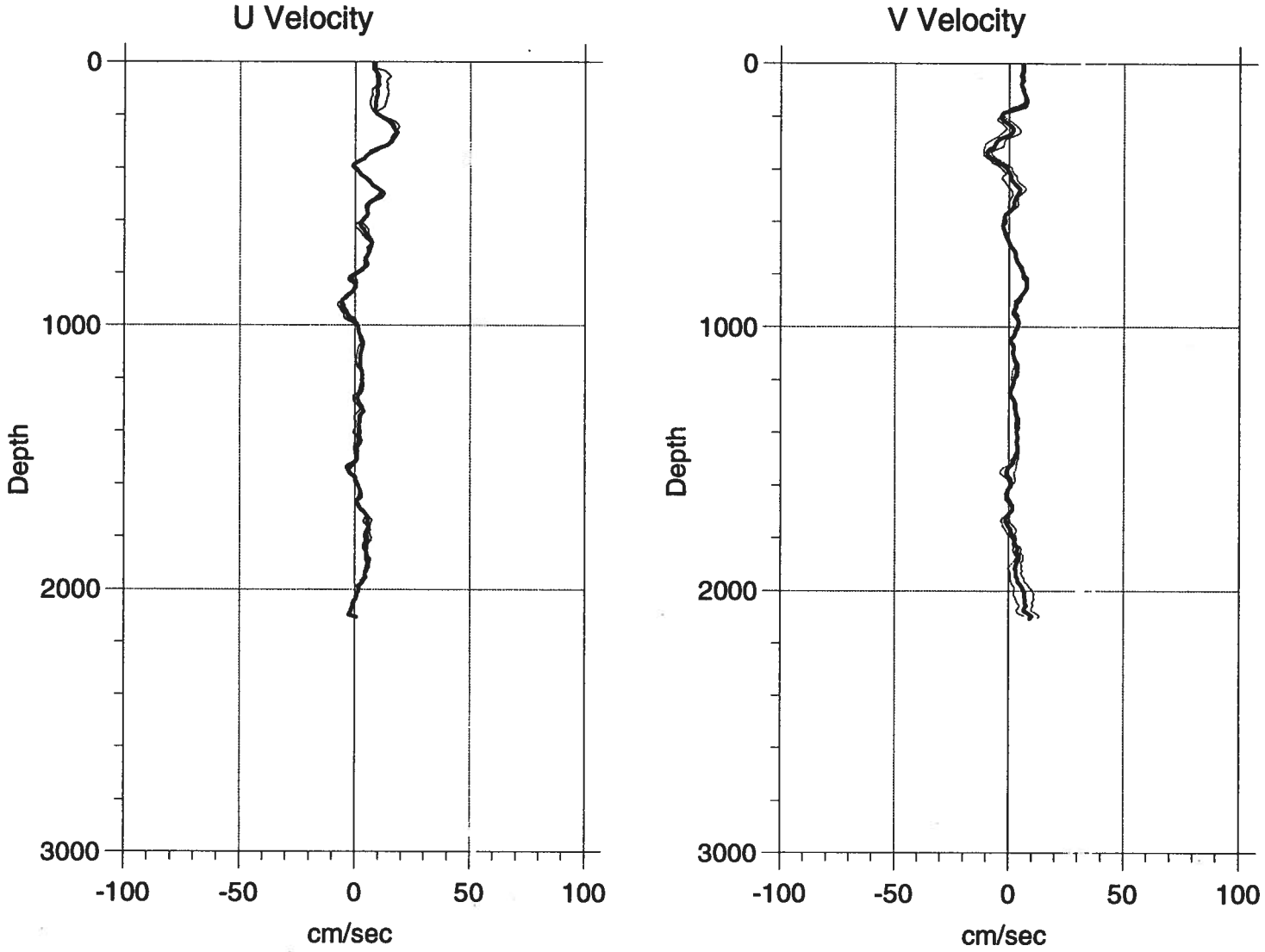
OCT97 - LADCP Station DF97 033
Start Day 261  Time 13:05 Z
Start Location 28 47.99  007  0.00



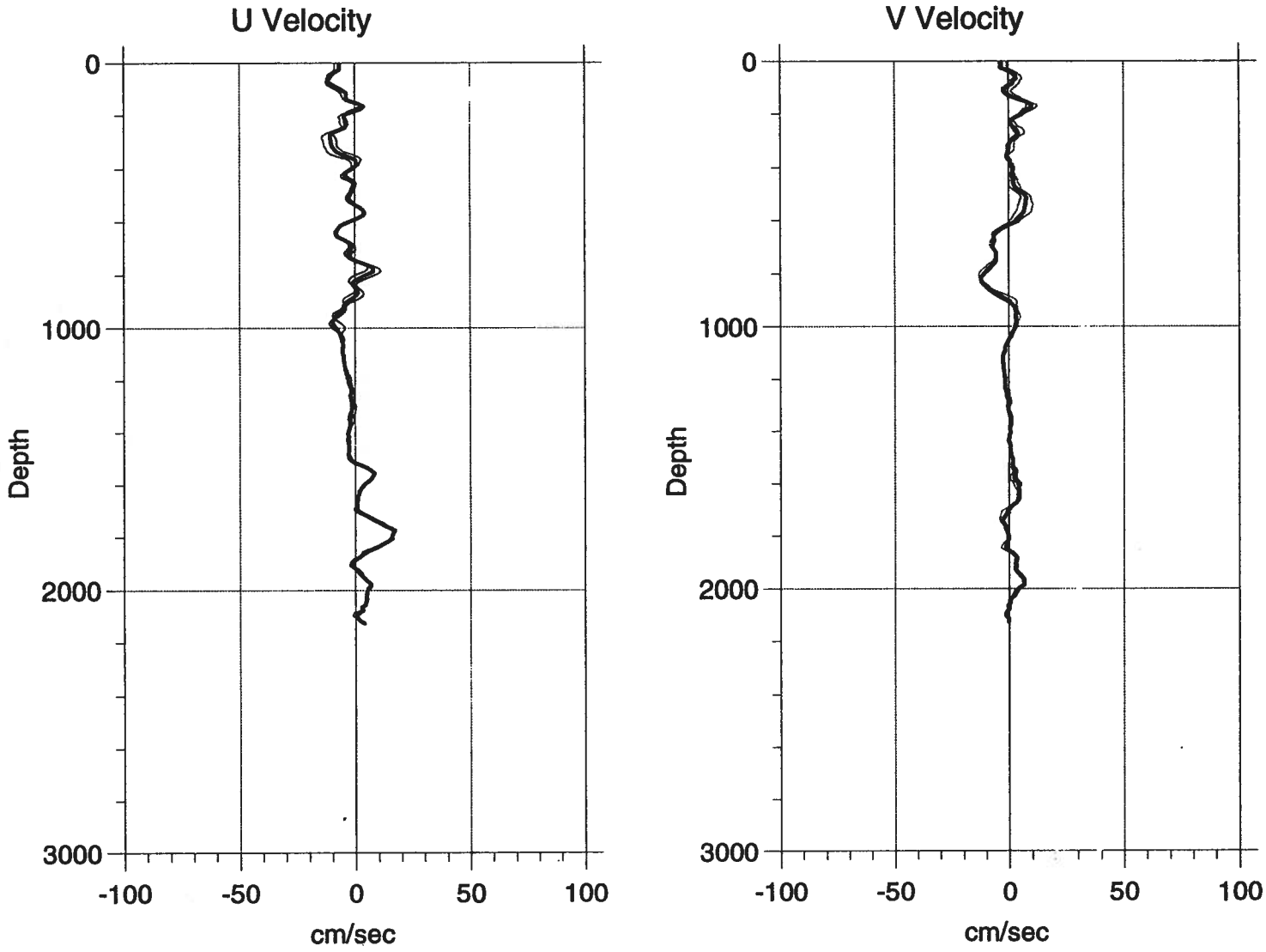
OCT97 - LADCP Station DF97 034
Start Day 261 Time 20:10 Z
Start Location 27 42.05 006 59.98



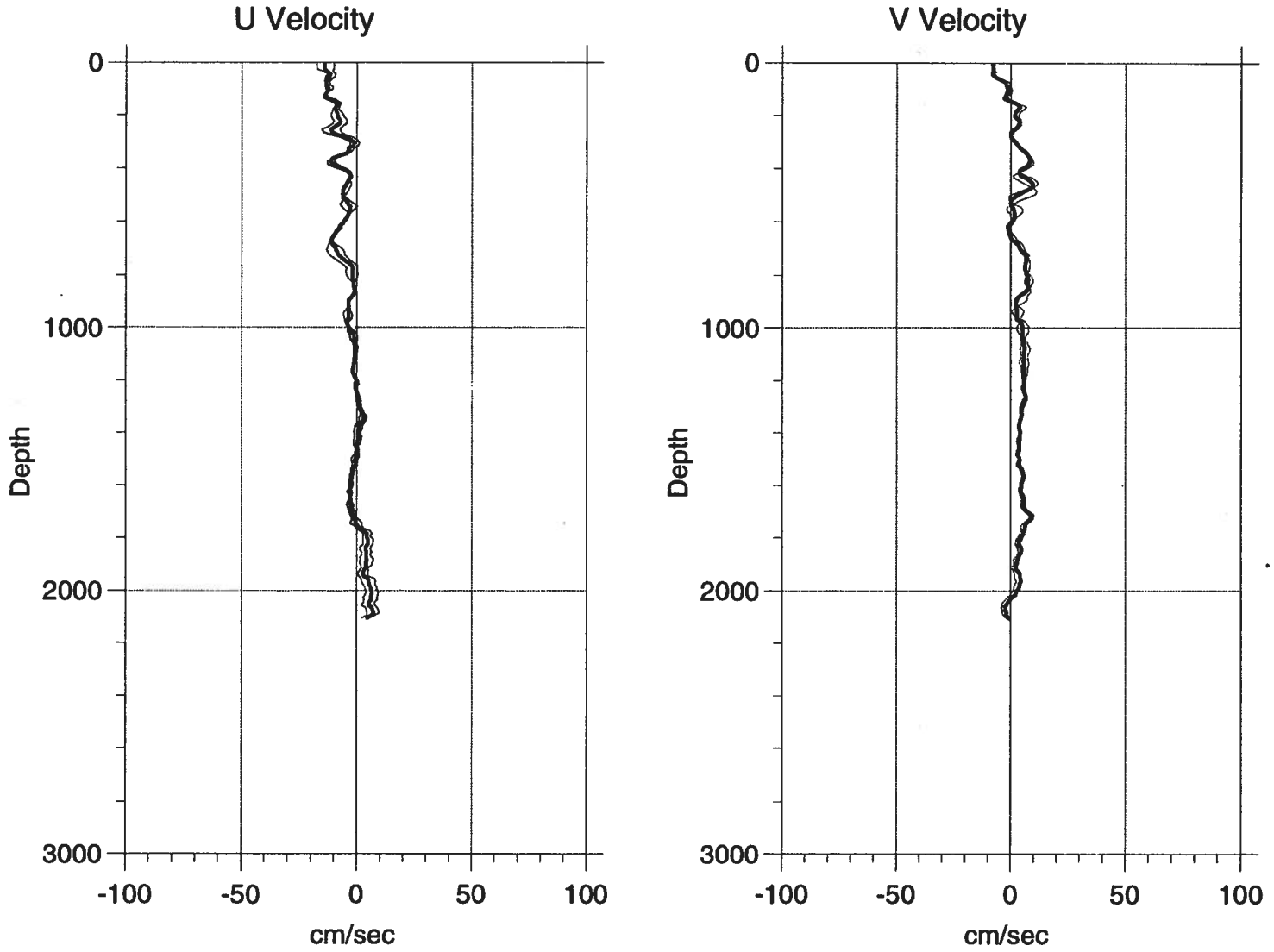
OCT97 - LADCP Station DF97 035
Start Day 262  Time 03:10 Z
Start Location 26 38.05  006 59.64



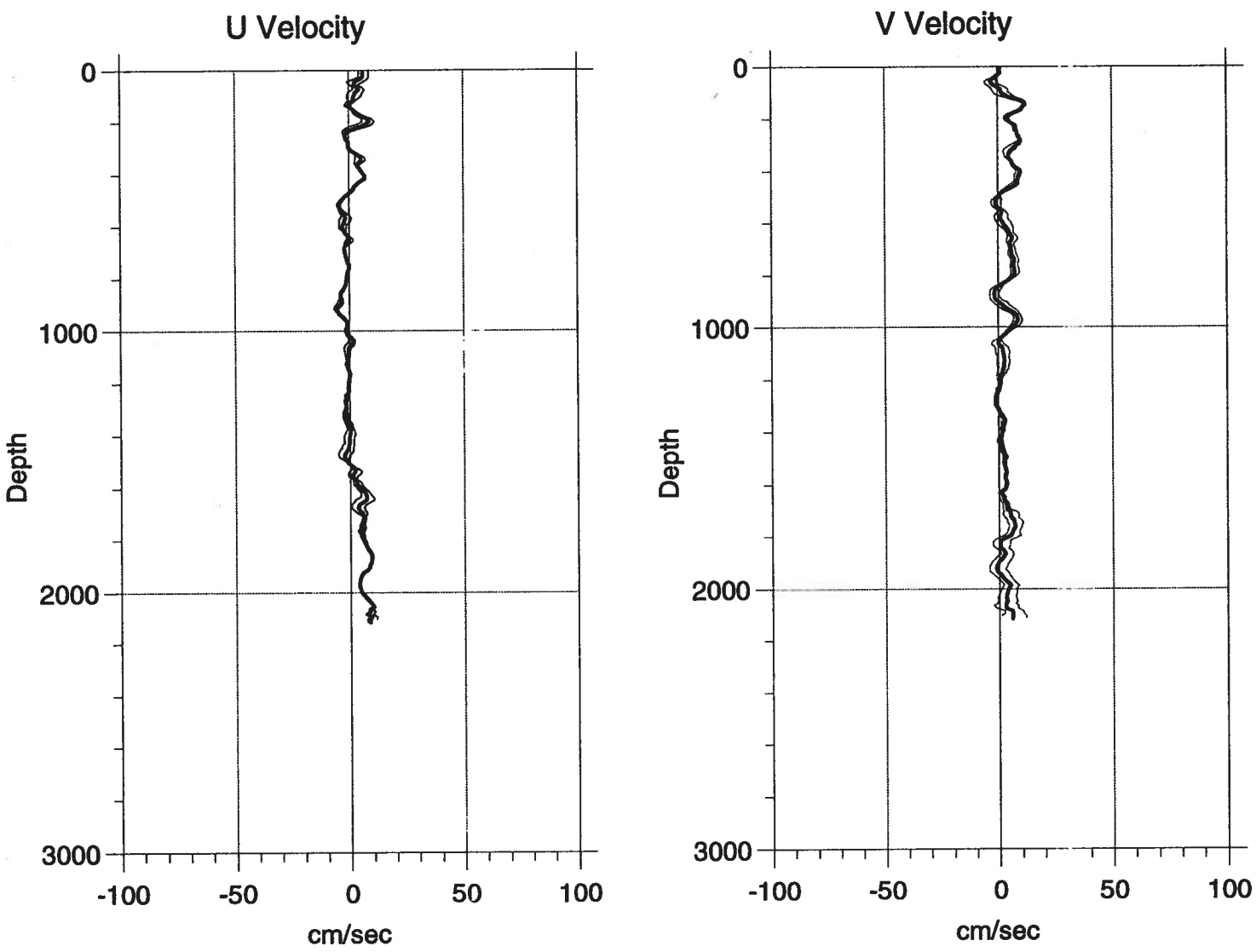
OCT97 - LADCP Station DF97 036
Start Day 262  Time 10:28 Z
Start Location 25 29.94  006 59.95



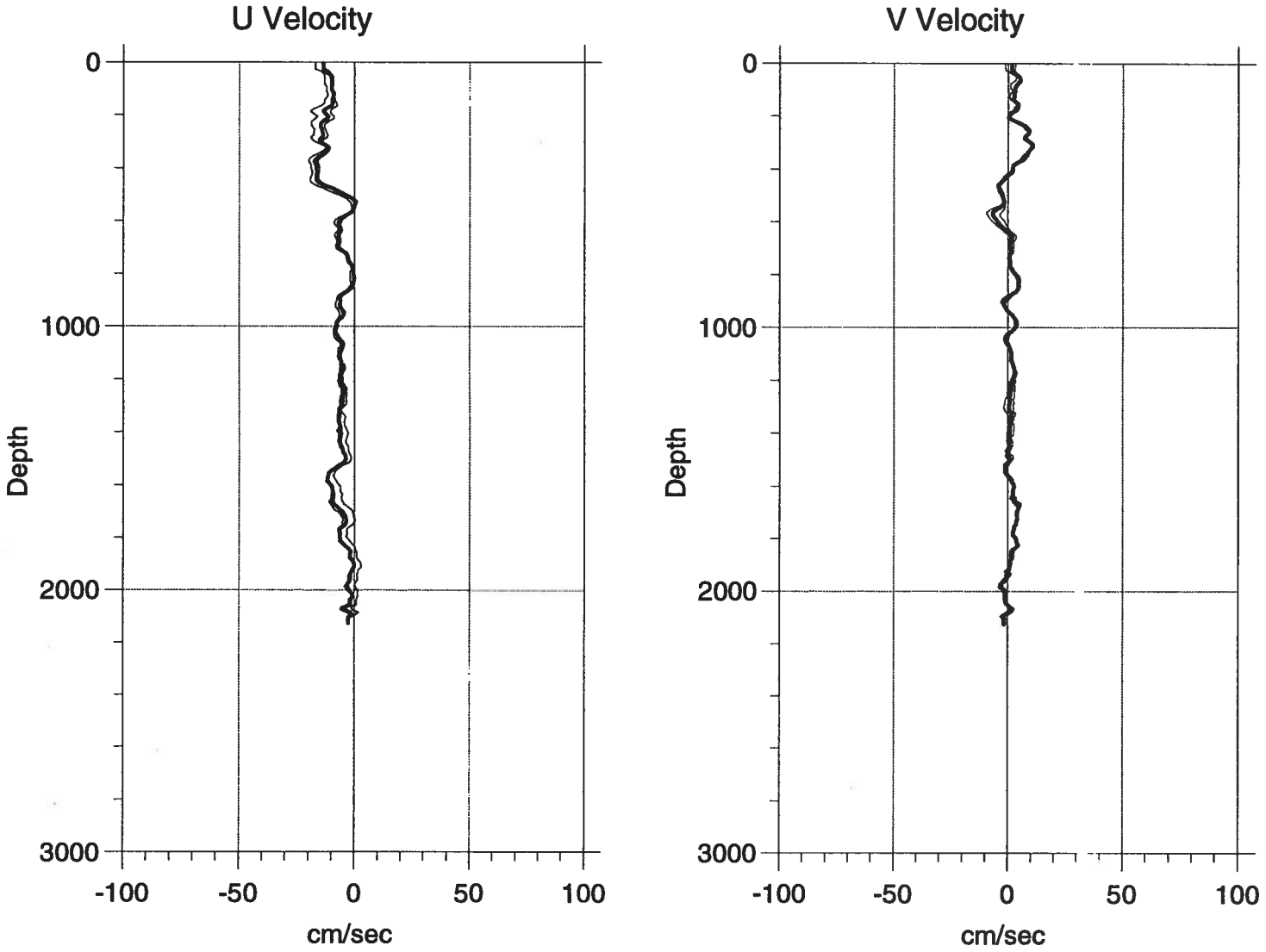
OCT97 - LADCP Station DF97 037
Start Day 262  Time 17:29 Z
Start Location 24 24.00  006 59.95



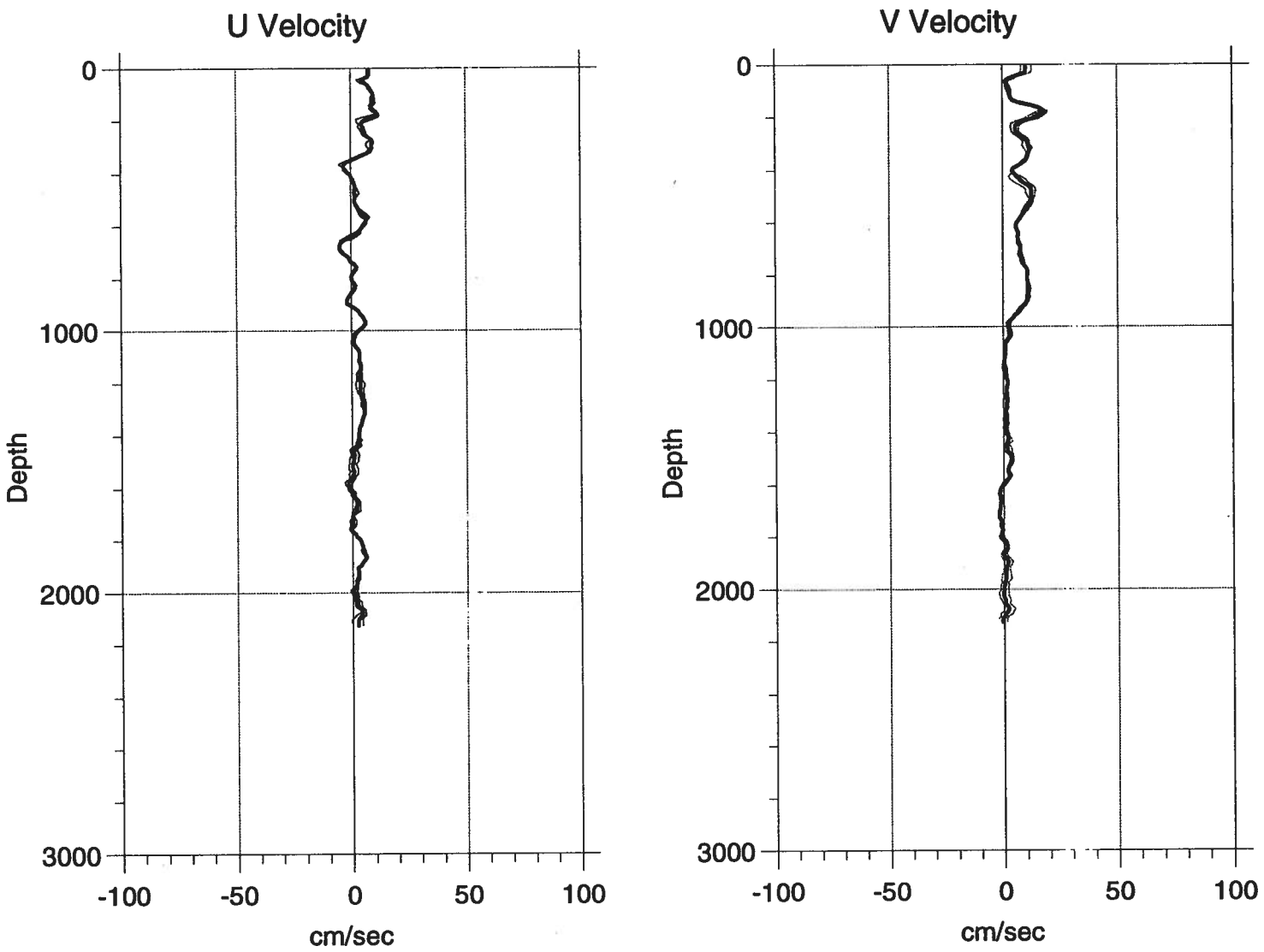
OCT97 - LADCP Station DF97 038
Start Day 263  Time 00:40 Z
Start Location 23 17.99  006 59.99



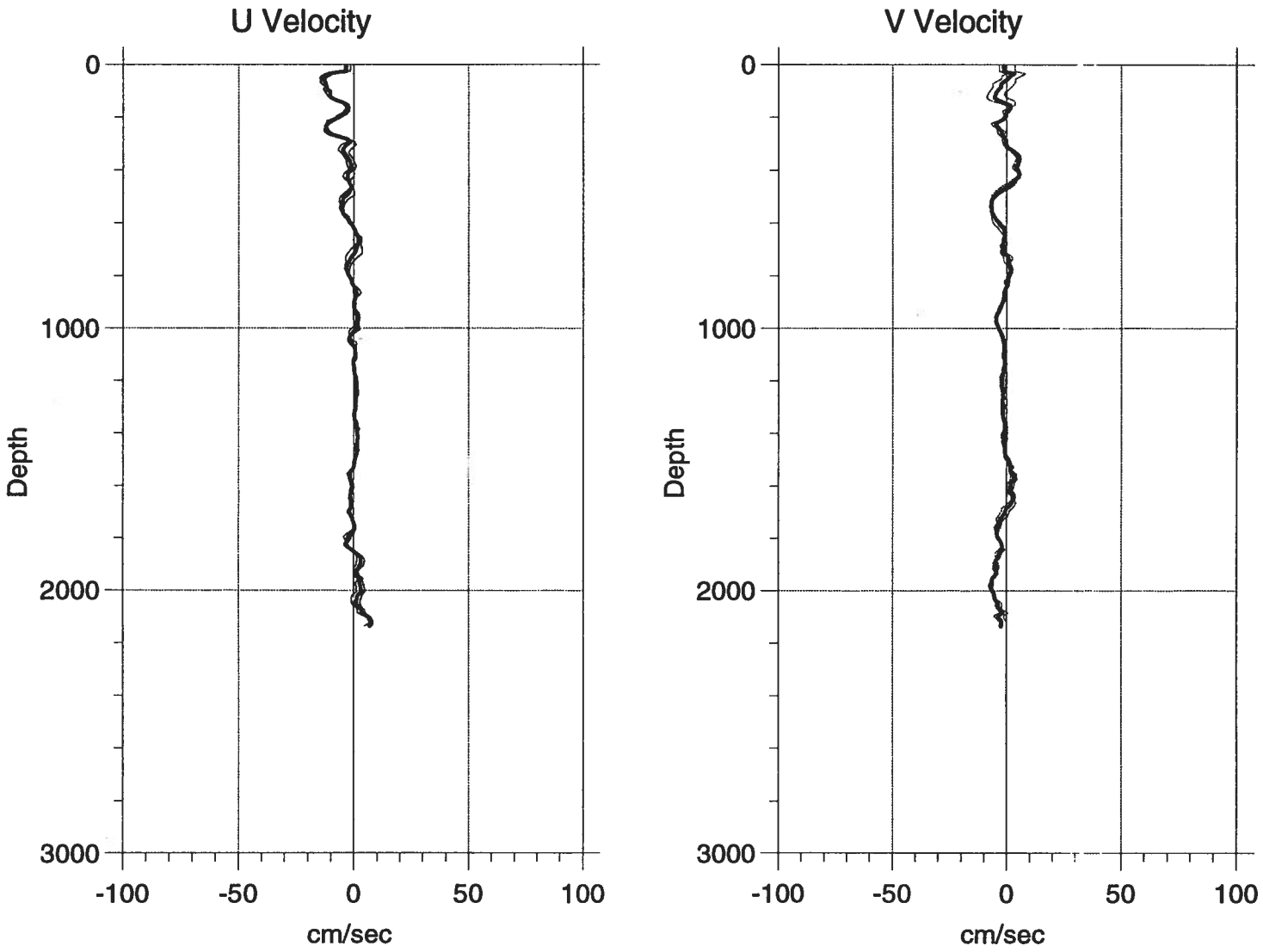
OCT97 - LADCP Station DF97 039
Start Day 263 Time 07:48 Z
Start Location 22 12.08 007 0.02



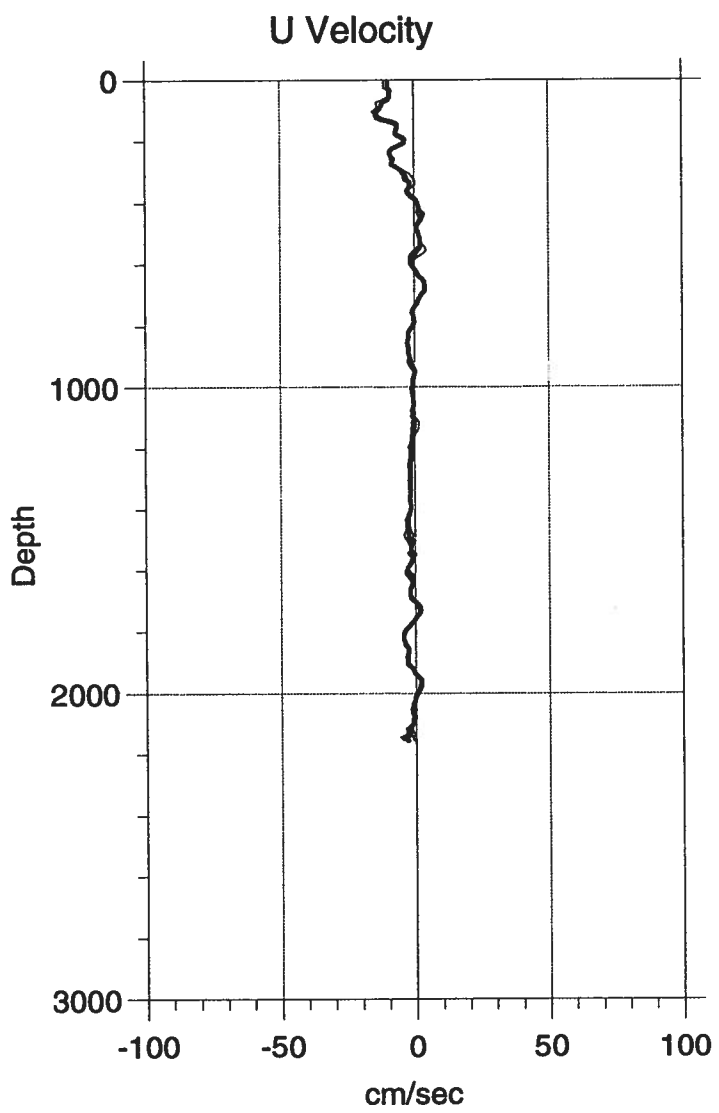
OCT97 - LADCP Station DF97 040
Start Day 263  Time 14:54 Z
Start Location 21  5.92  007  0.07

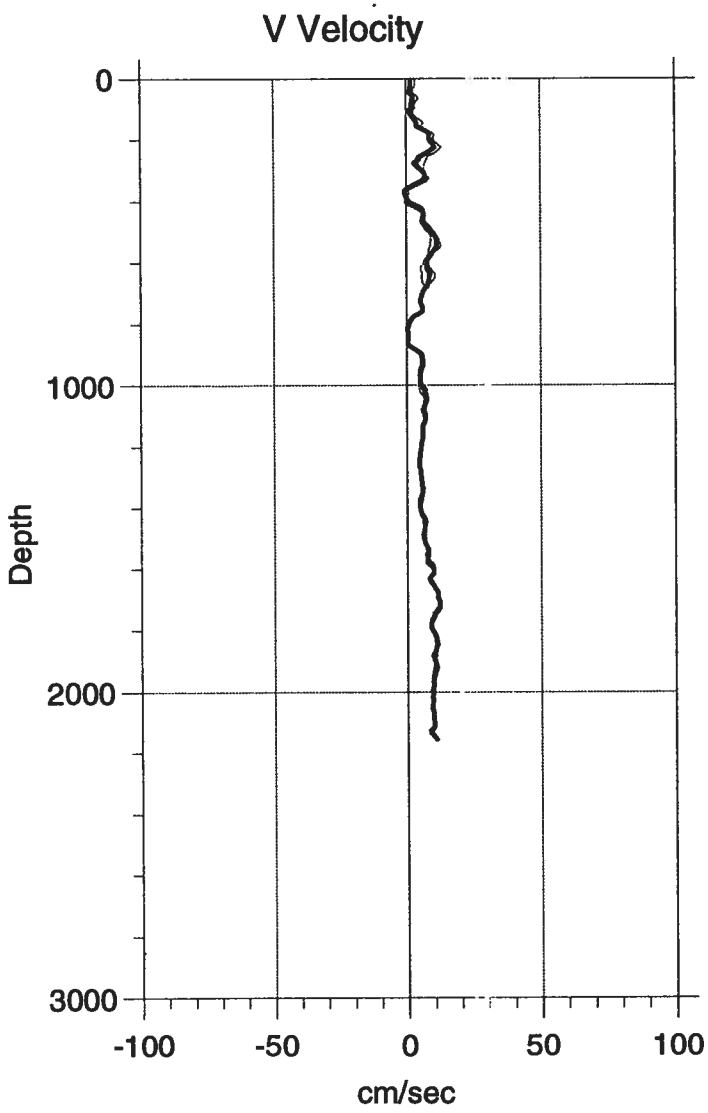


OCT97 - LADCP Station DF97 041
Start Day 263  Time 22:05 Z
Start Location 19 59.97  006 59.99

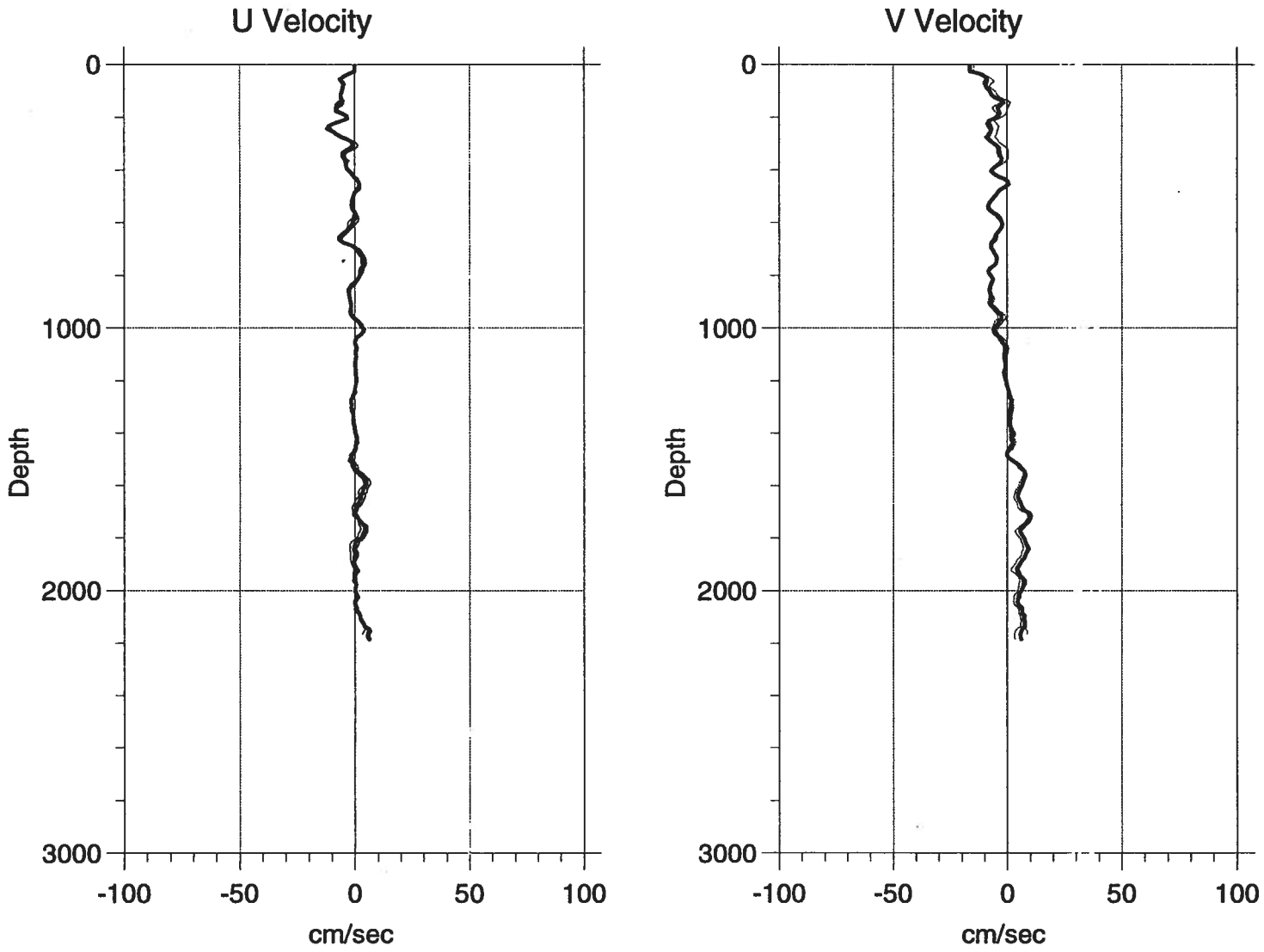


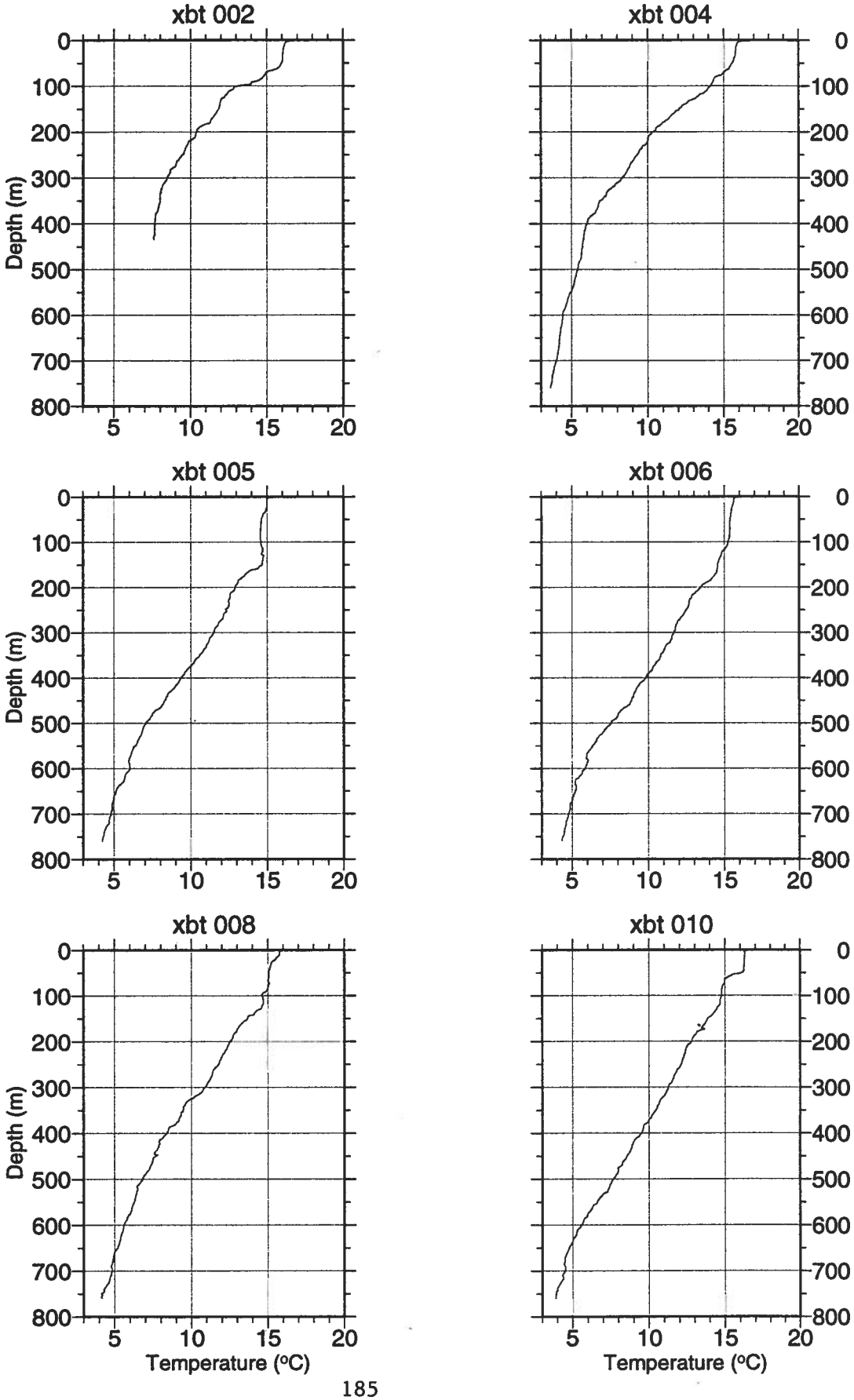
OCT97 - LADCP Station DF97 042
Start Day 264  Time 17:48 Z
Start Location 18 59.99  005 59.97



OCT97 - LADCP Station DF97 043
Start Day 265  Time 00:30 Z
Start Location 17 59.99  005 59.97

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xbt 004
xbt 005
xbt 006
xbt 008
xbt 010
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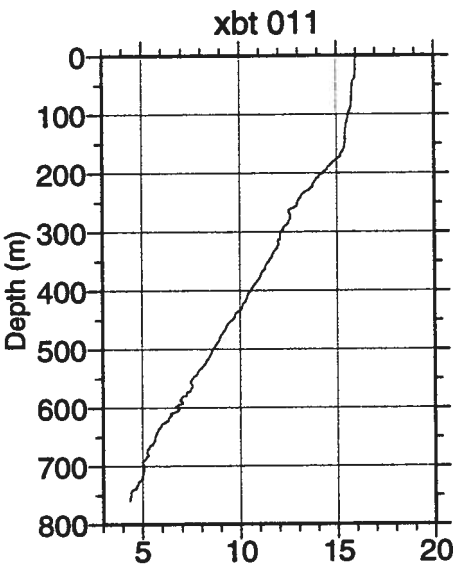
Temperature (°C)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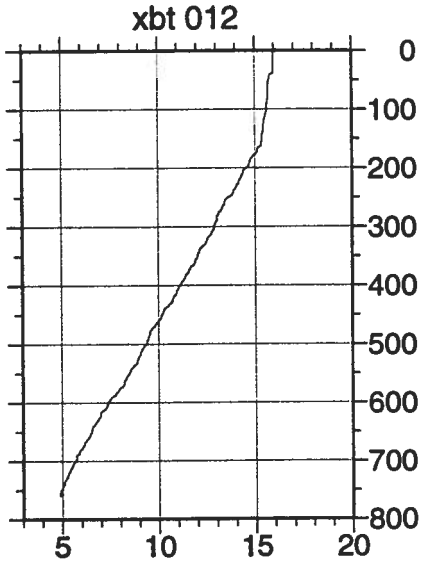
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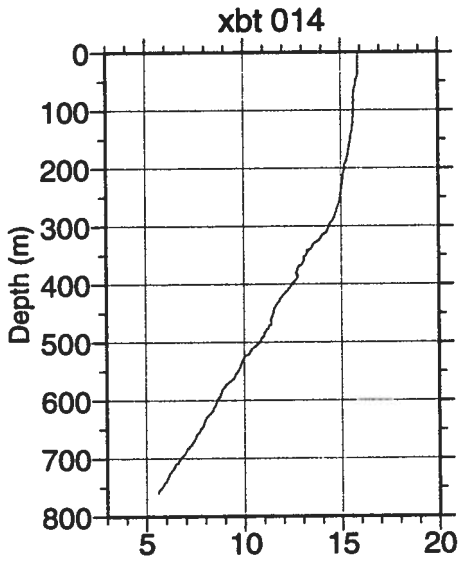
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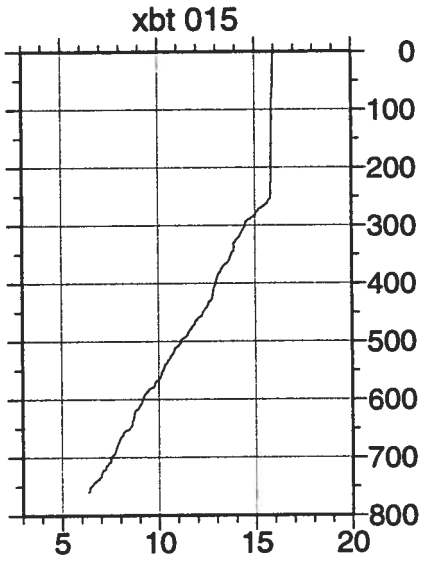
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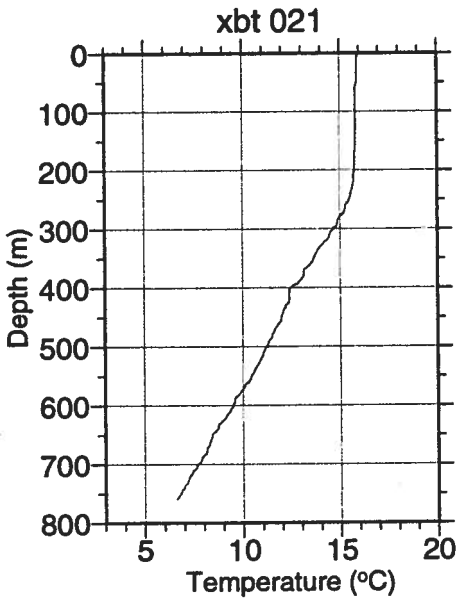
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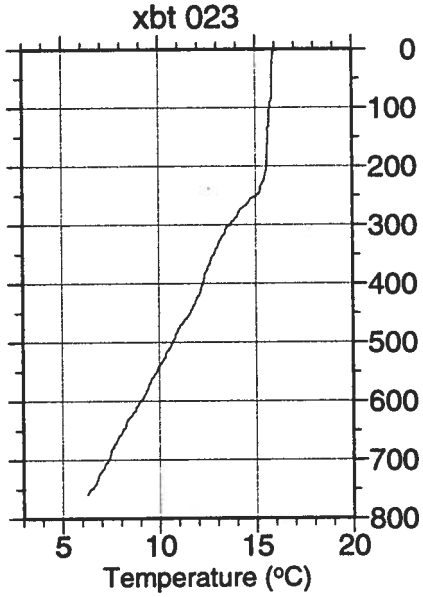
Temperature (°C)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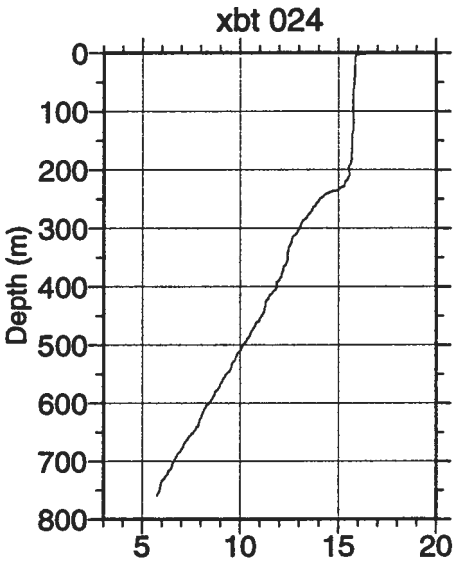
Temperature (°C)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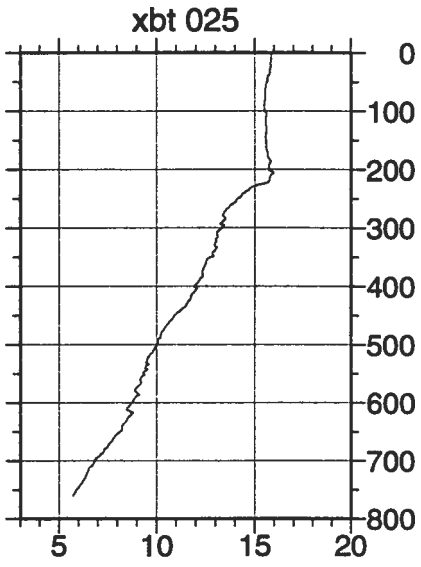
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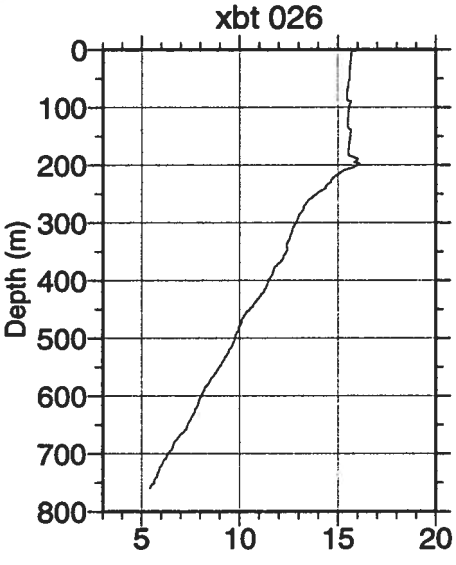
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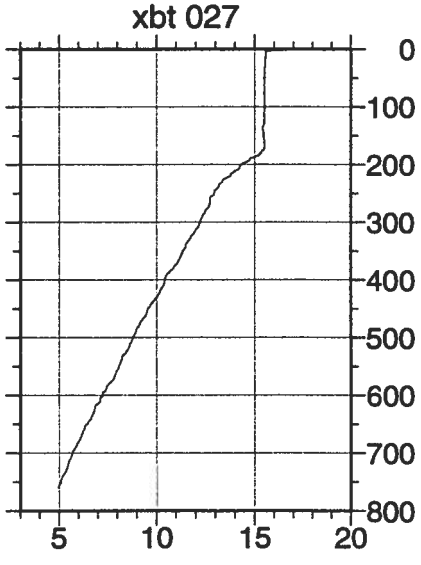
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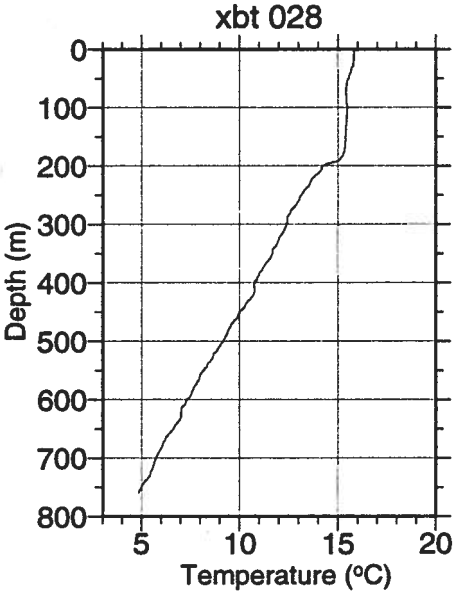
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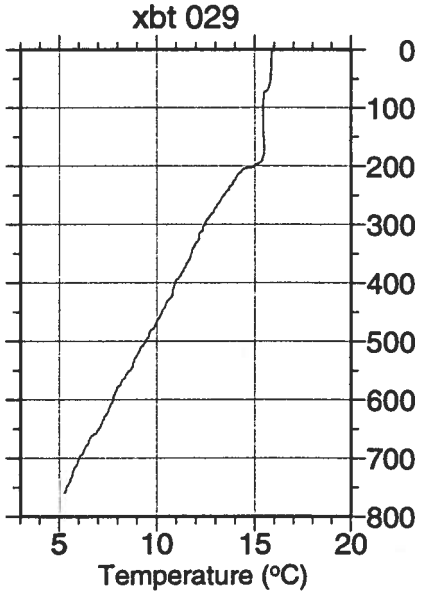
Temperature (°C)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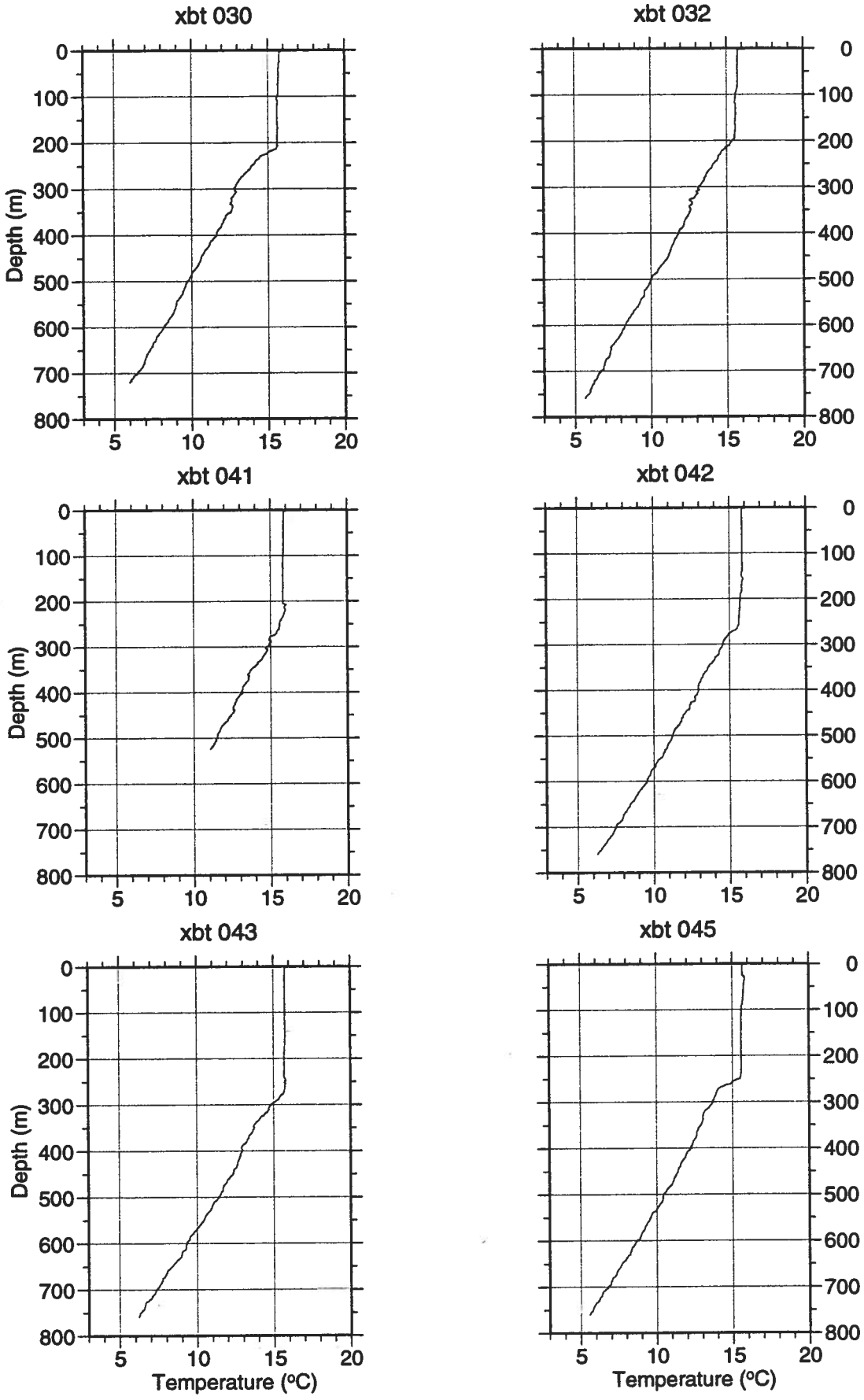
Temperature (°C)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xbt 041
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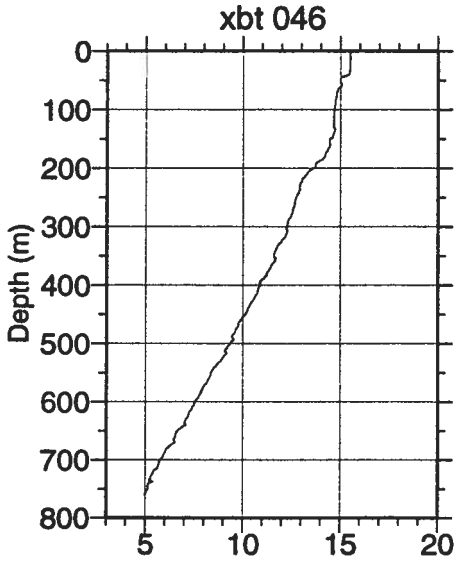
Temperature (°C)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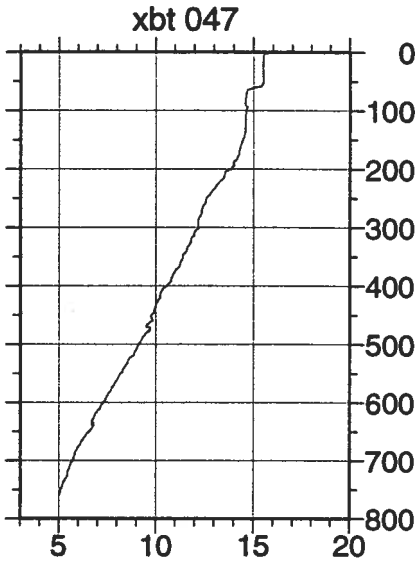
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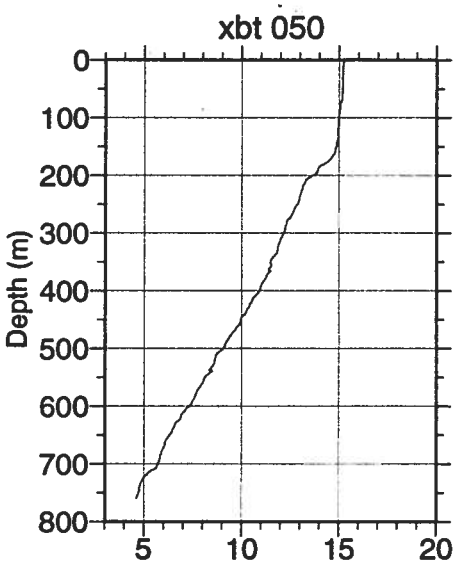
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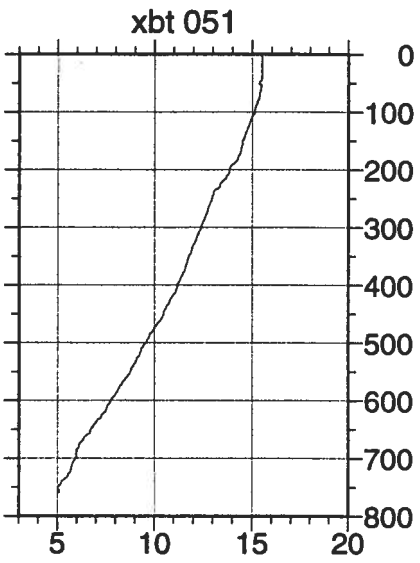
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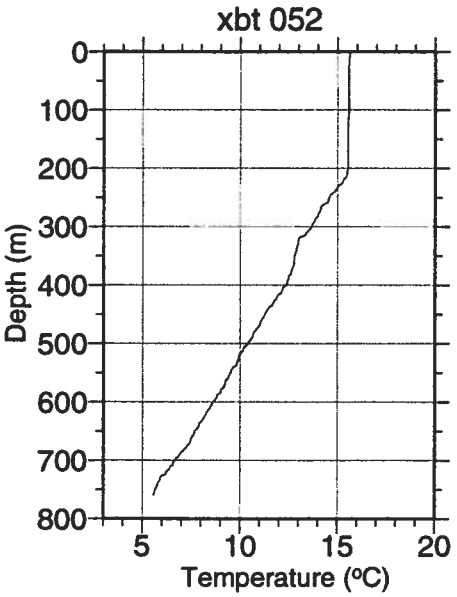
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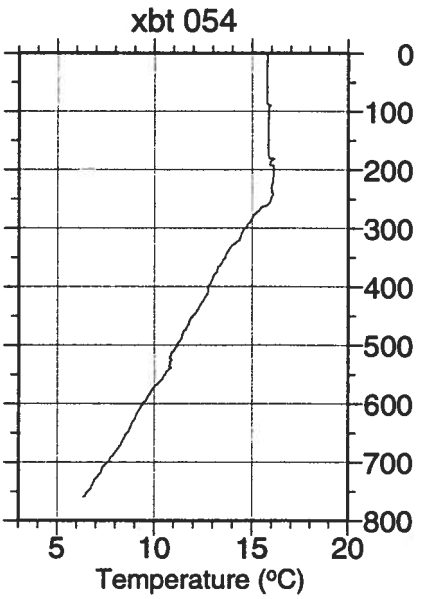
Temperature (°C)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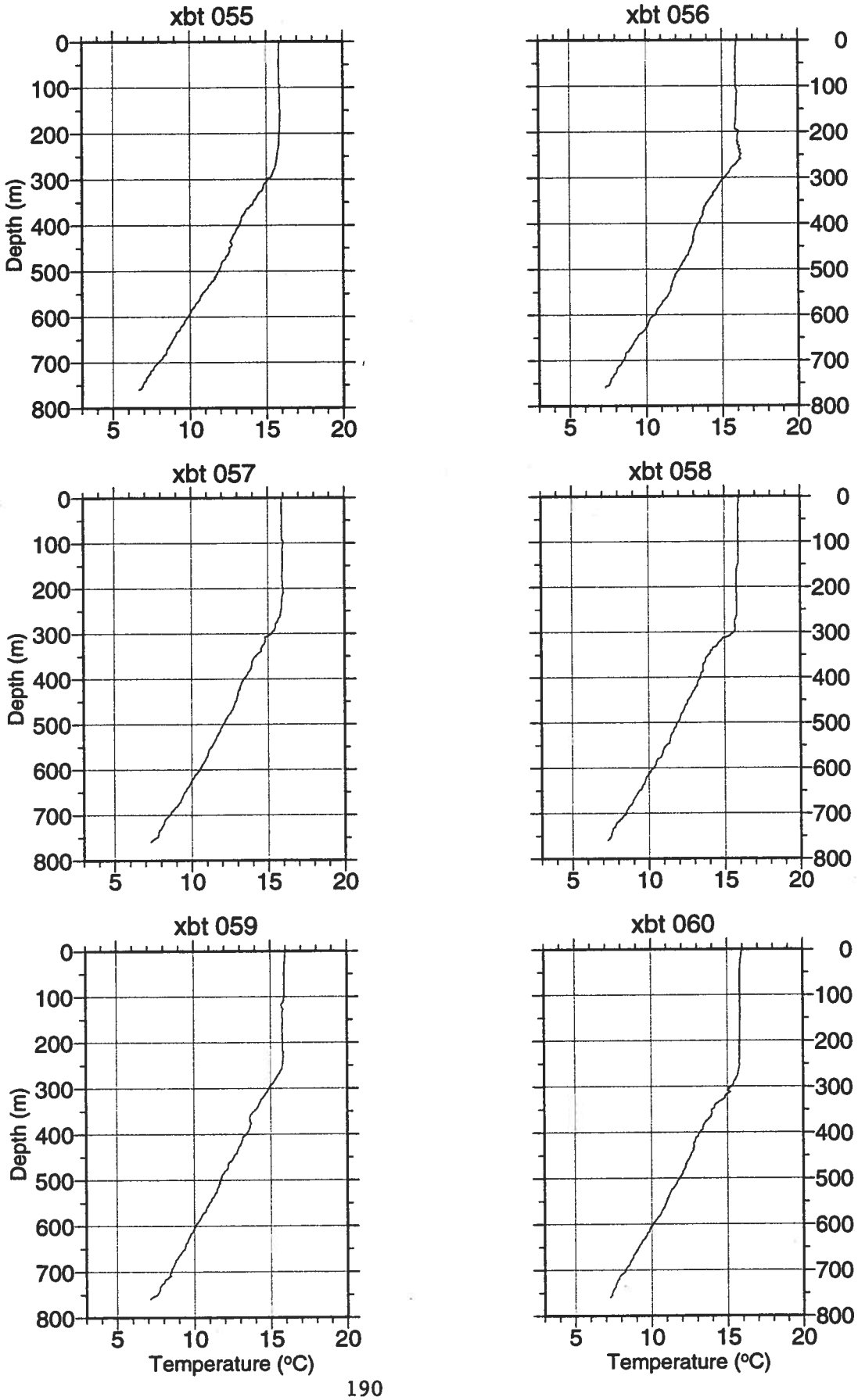
Temperature (°C)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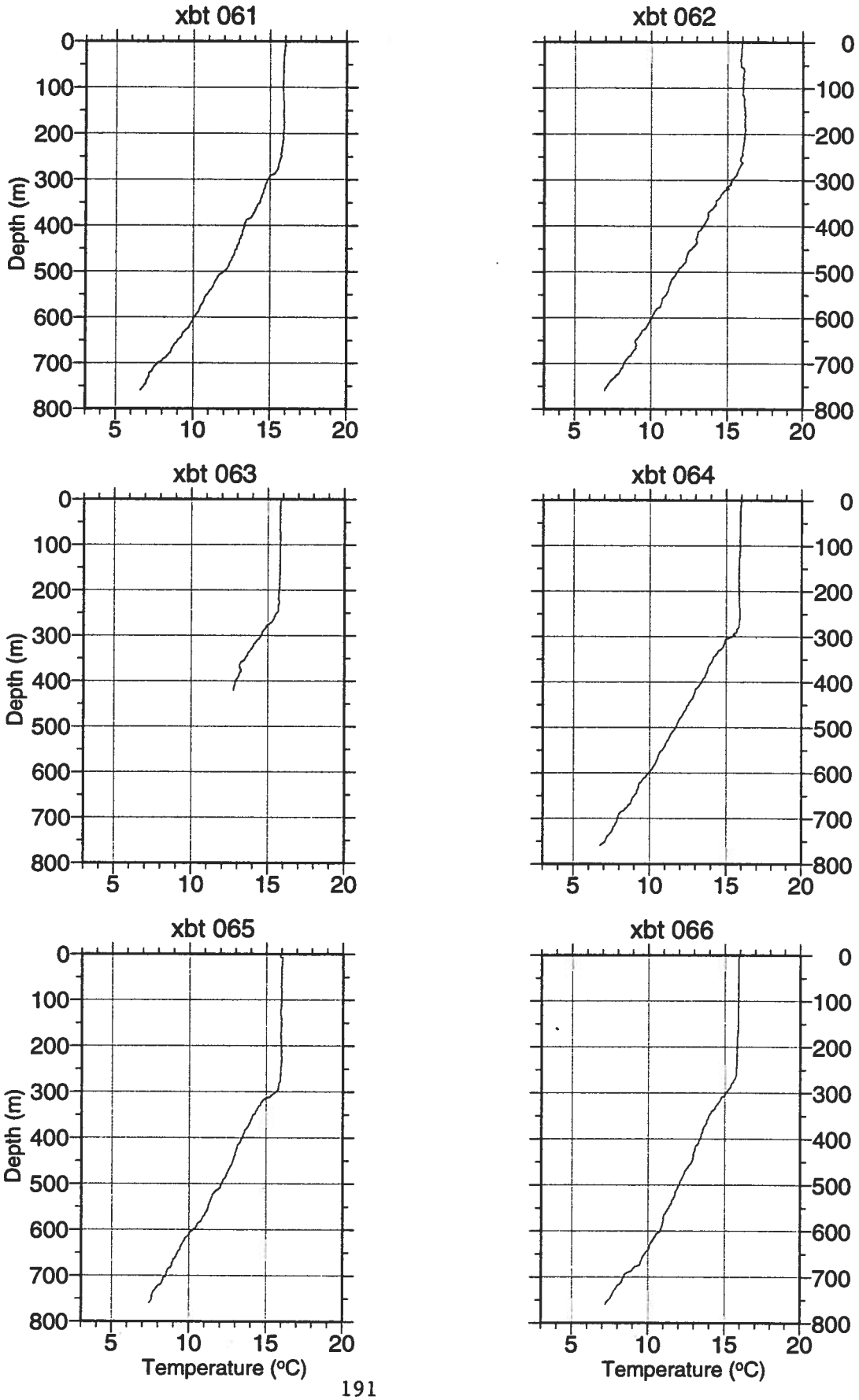
Temperature (°C)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xbt 065
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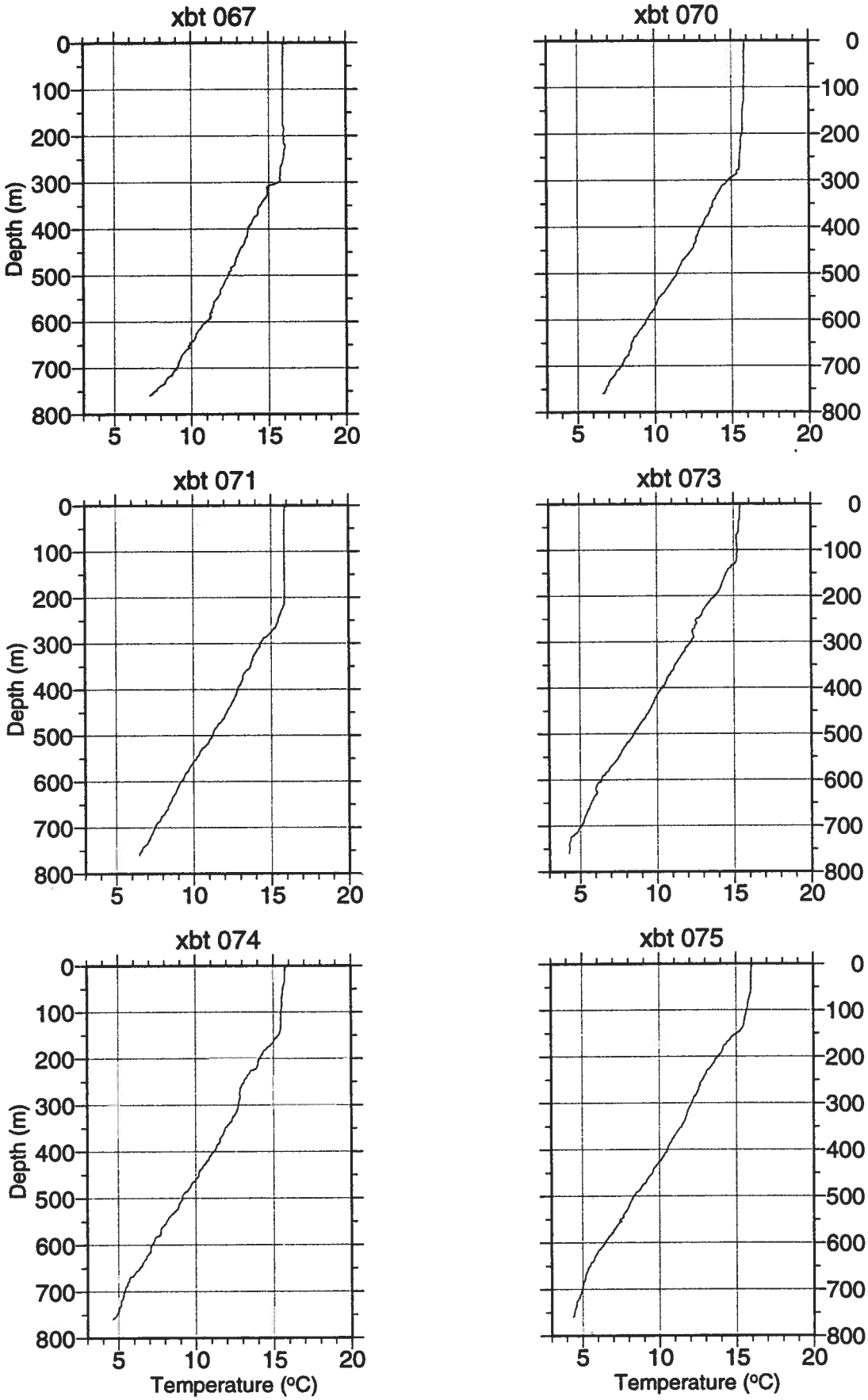
20
Temperature (°C)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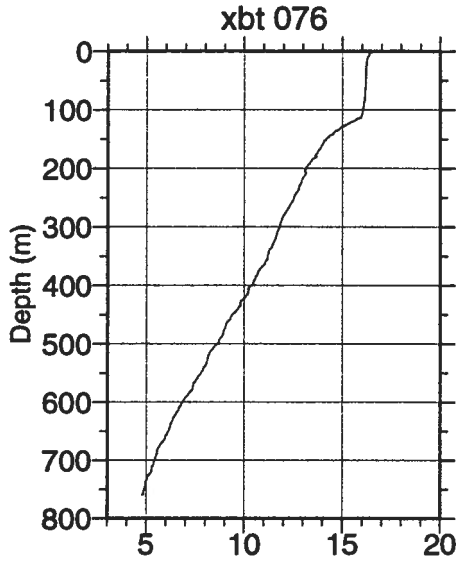
20
Temperature (°C)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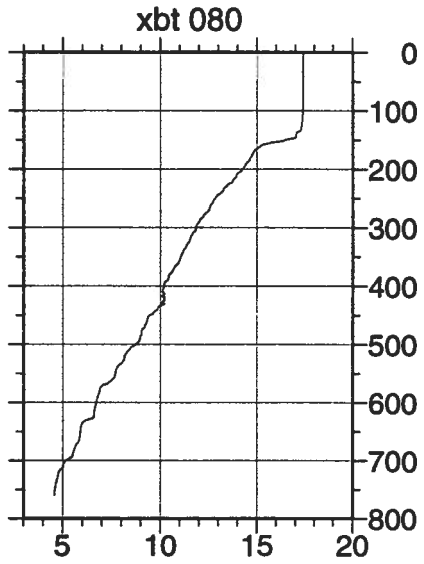
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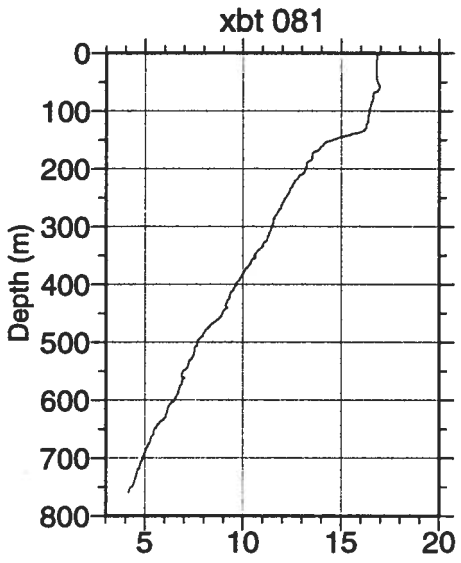
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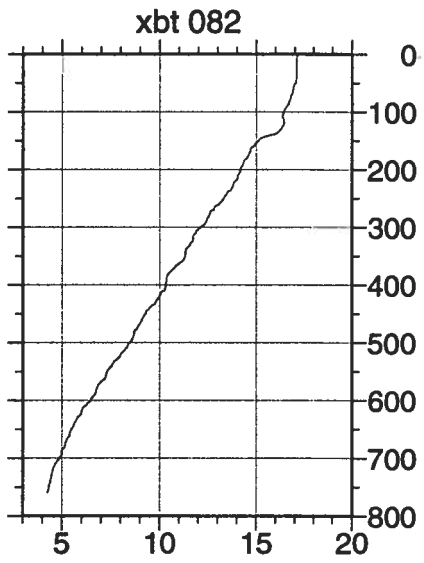
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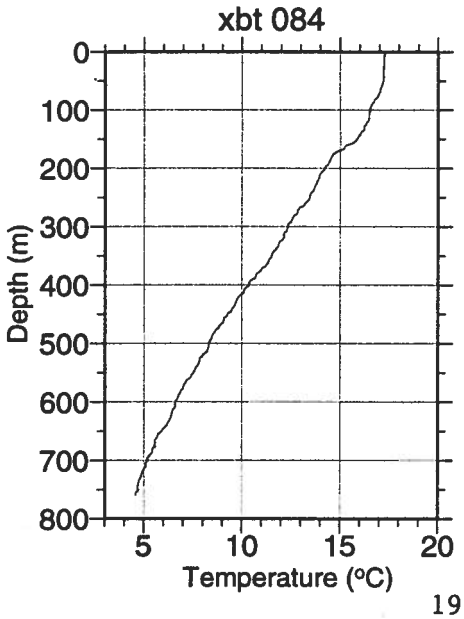
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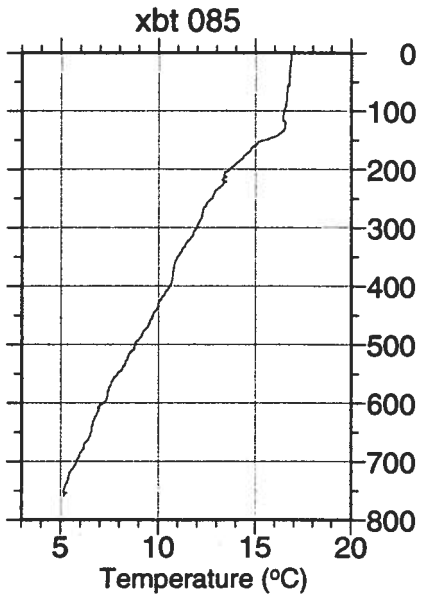
Temperature (°C)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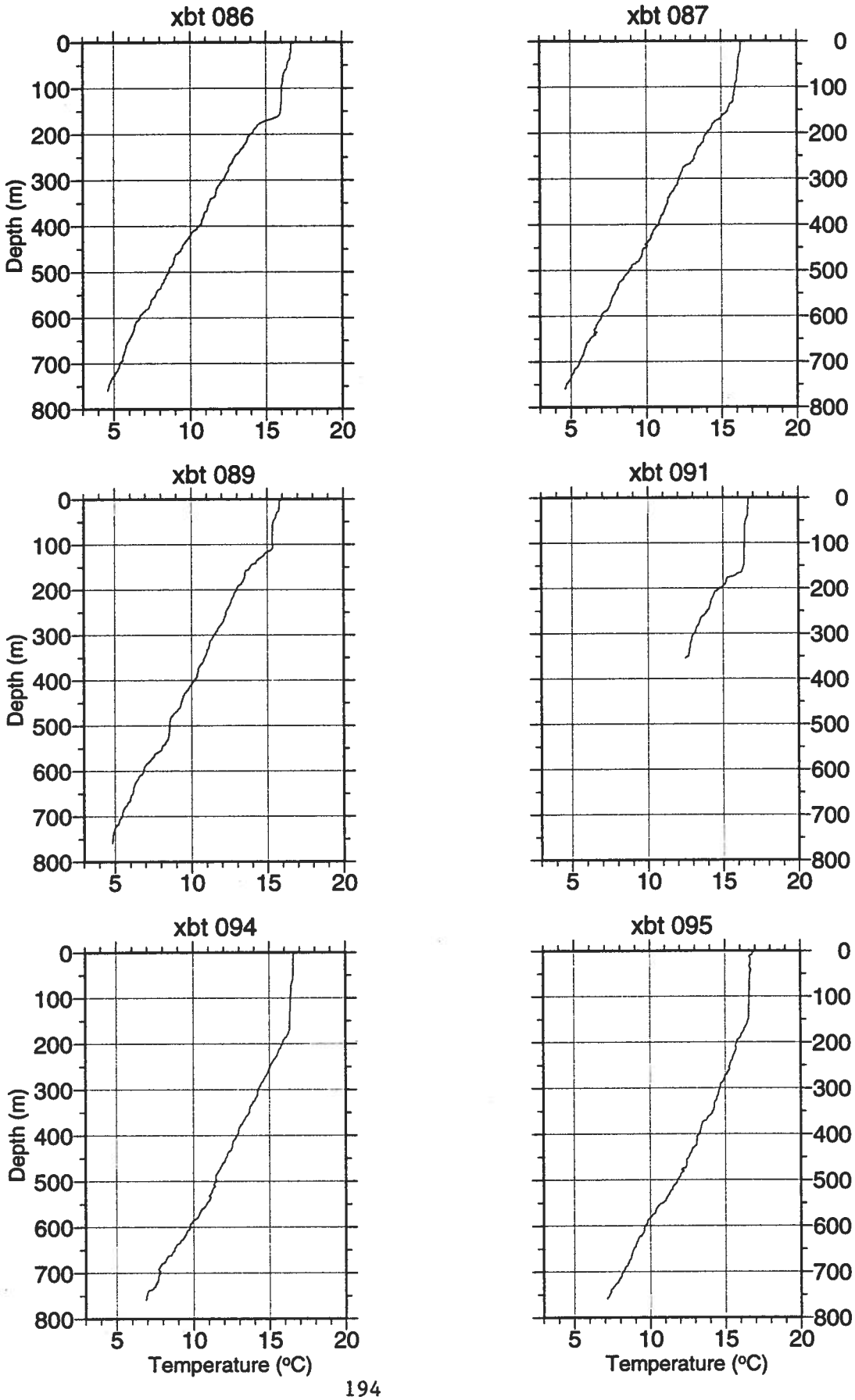
Temperature (°C)


xbt 086
xbt 087
xbt 089
xbt 091
xbt 094
xbt 095
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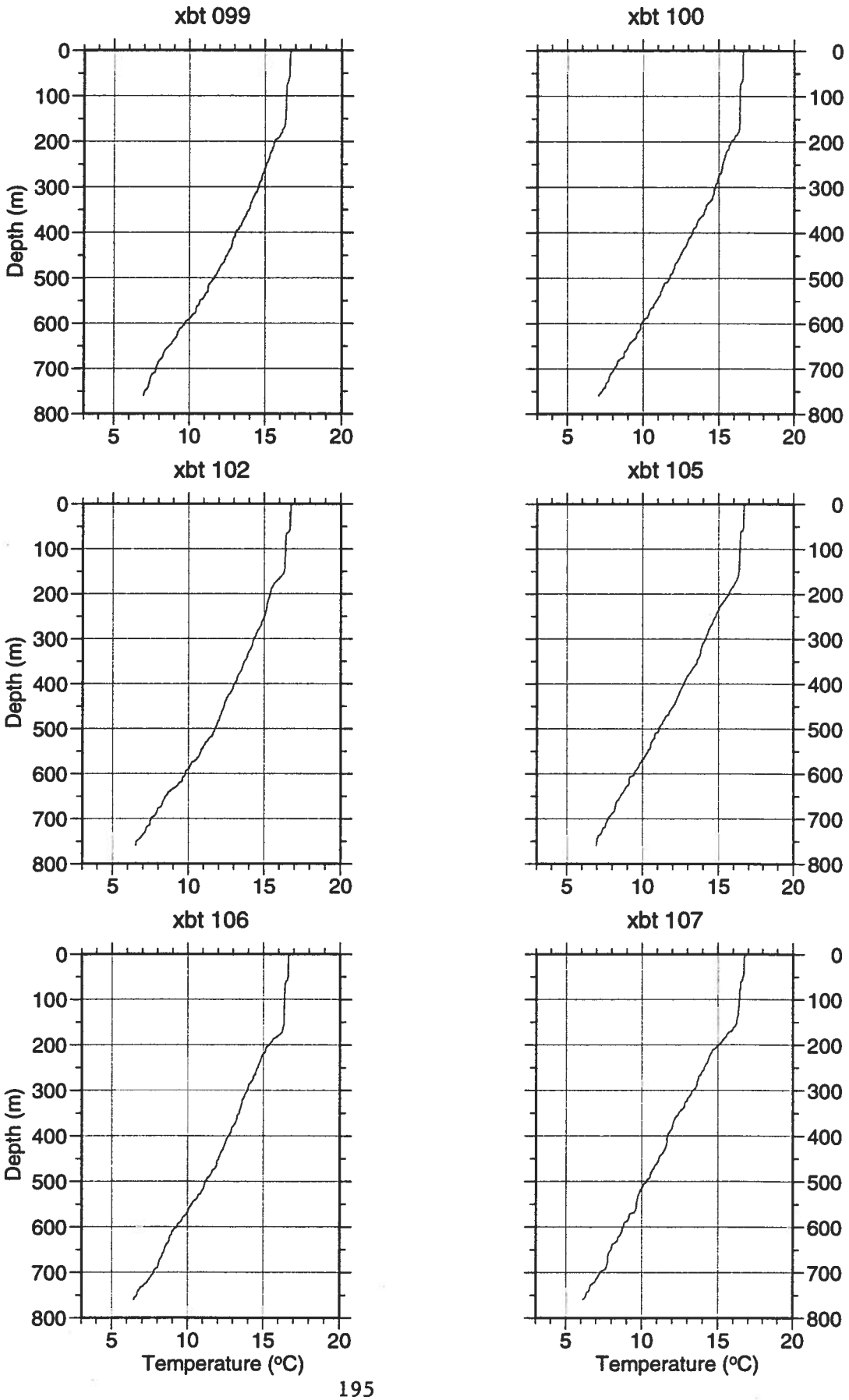
20
Temperature (°C)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xbt 100
xbt 102
xbt 105
xbt 106
xbt 107
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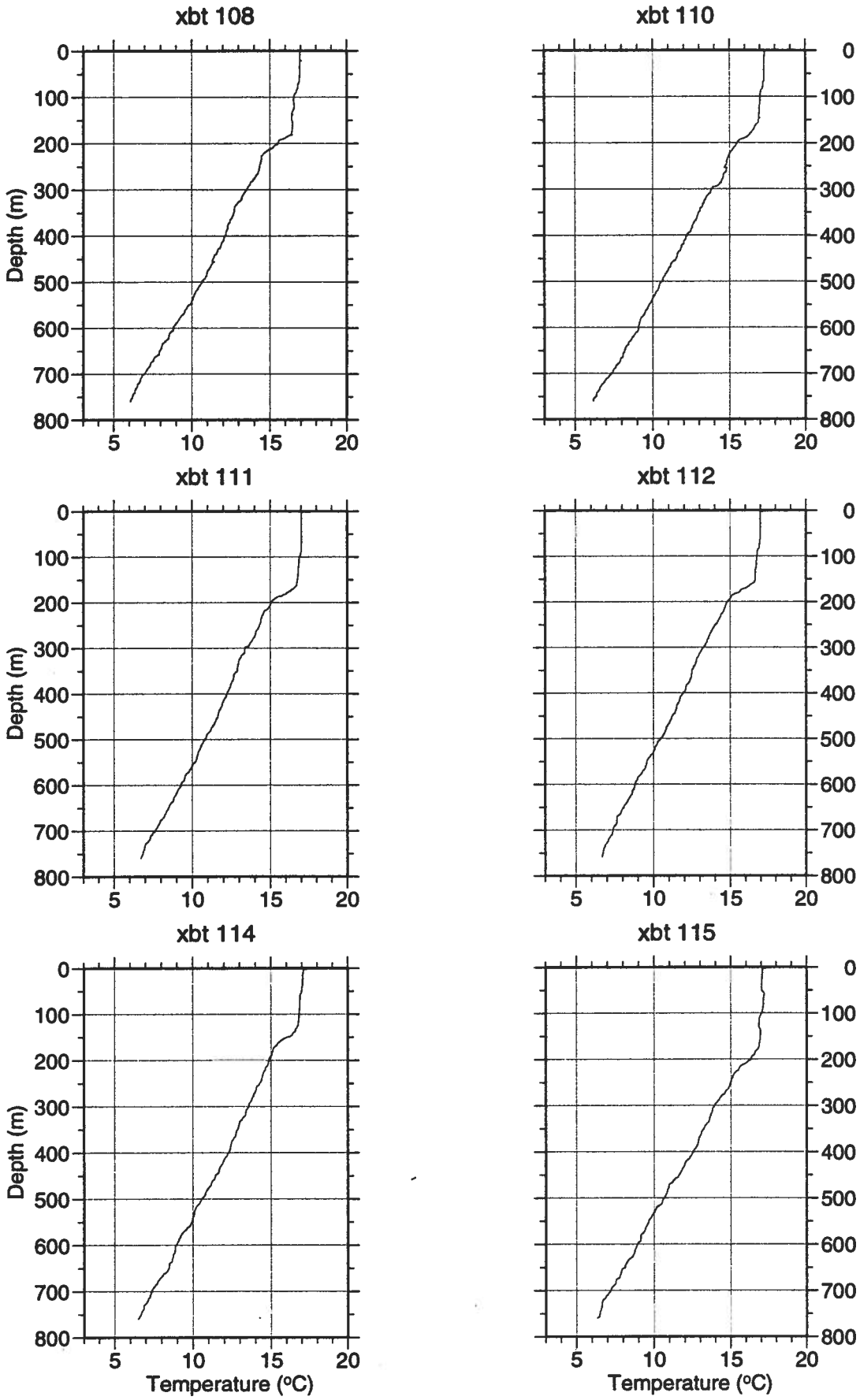
20
Temperature (°C)


xbt 108
xbt 110
xbt 111
xbt 112
xbt 114
xbt 115
Depth (m)
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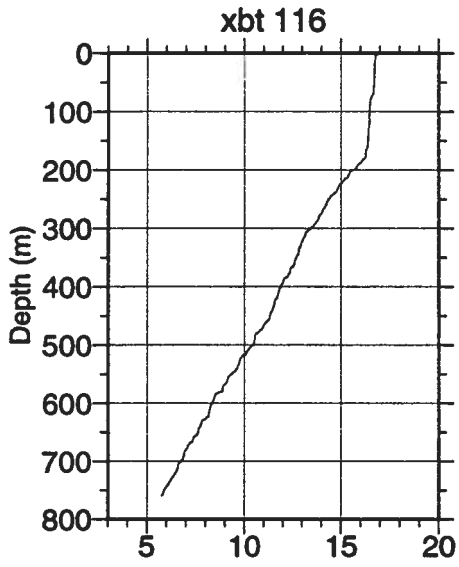
100
200
300
400
500
600
700
800
5
10
15
20
Temperature (°C)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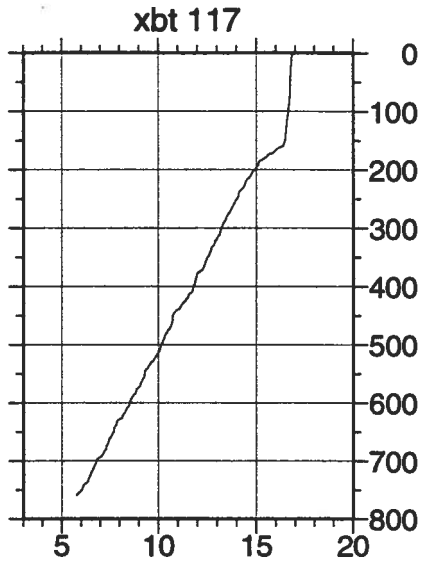
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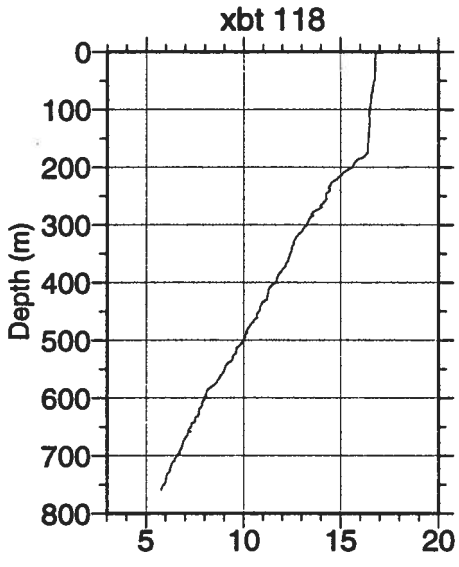
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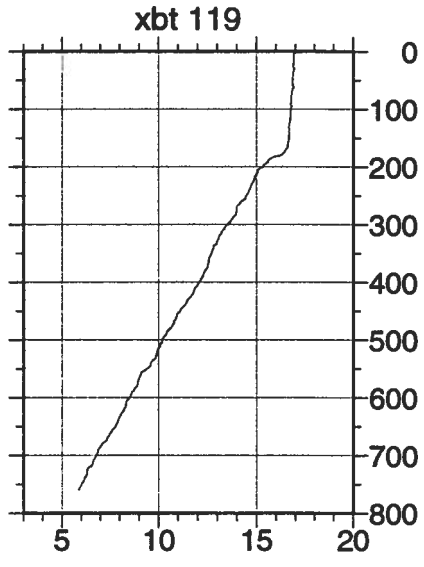
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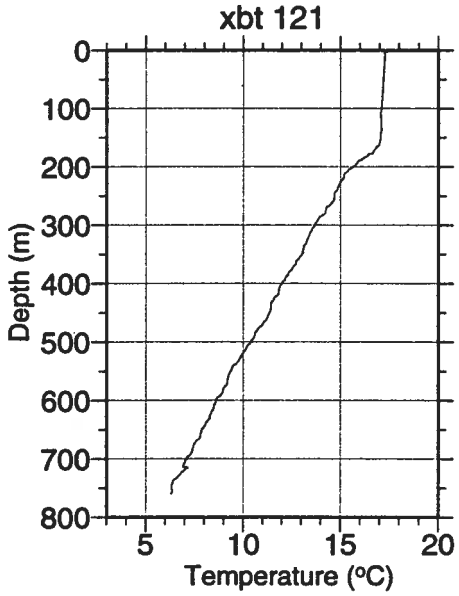
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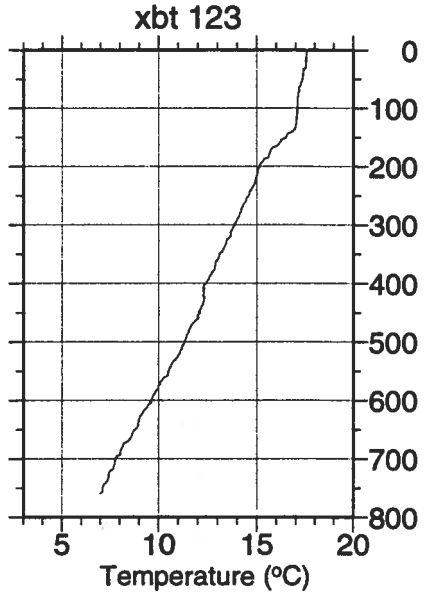
Temperature (°C)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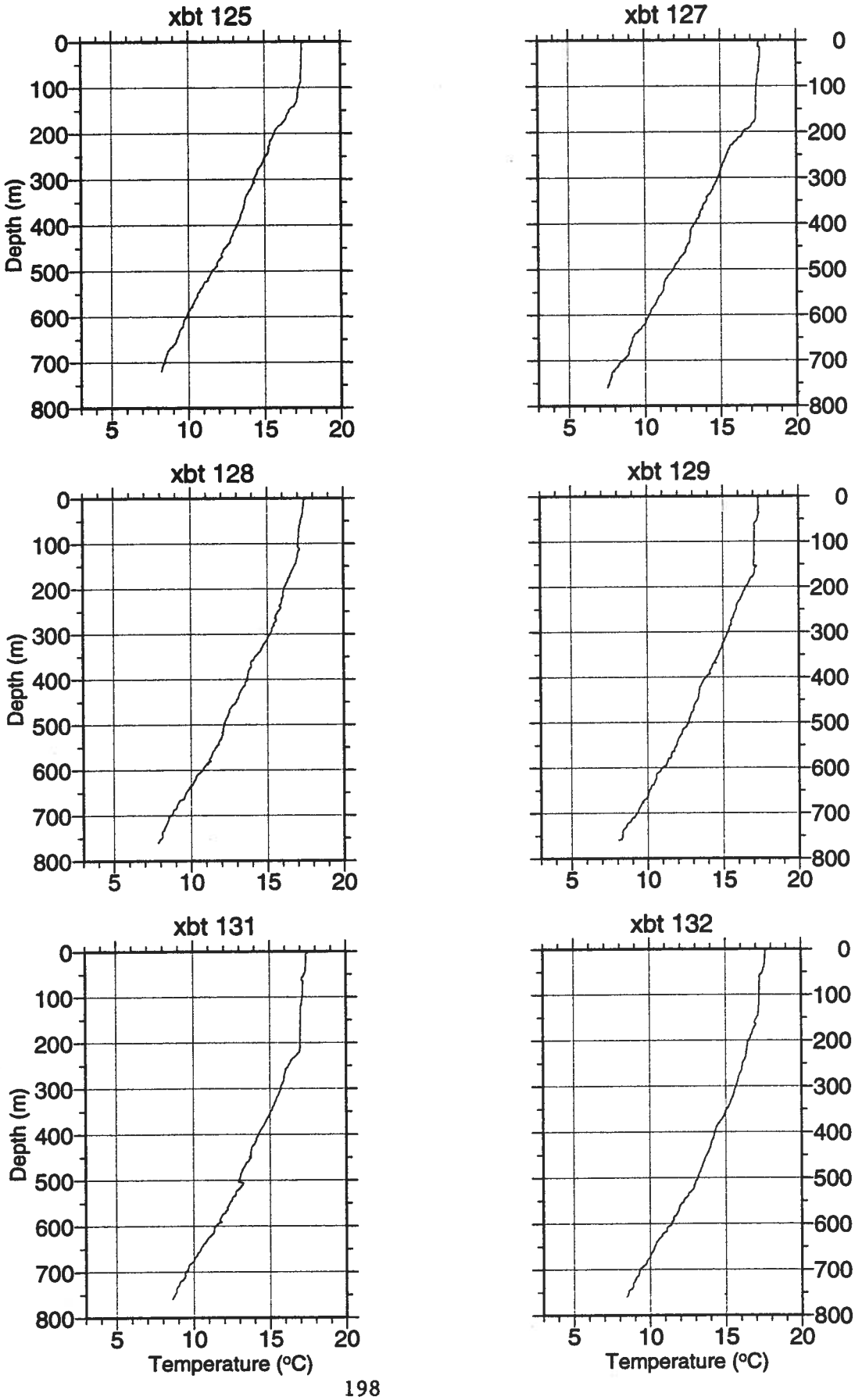
Temperature (°C)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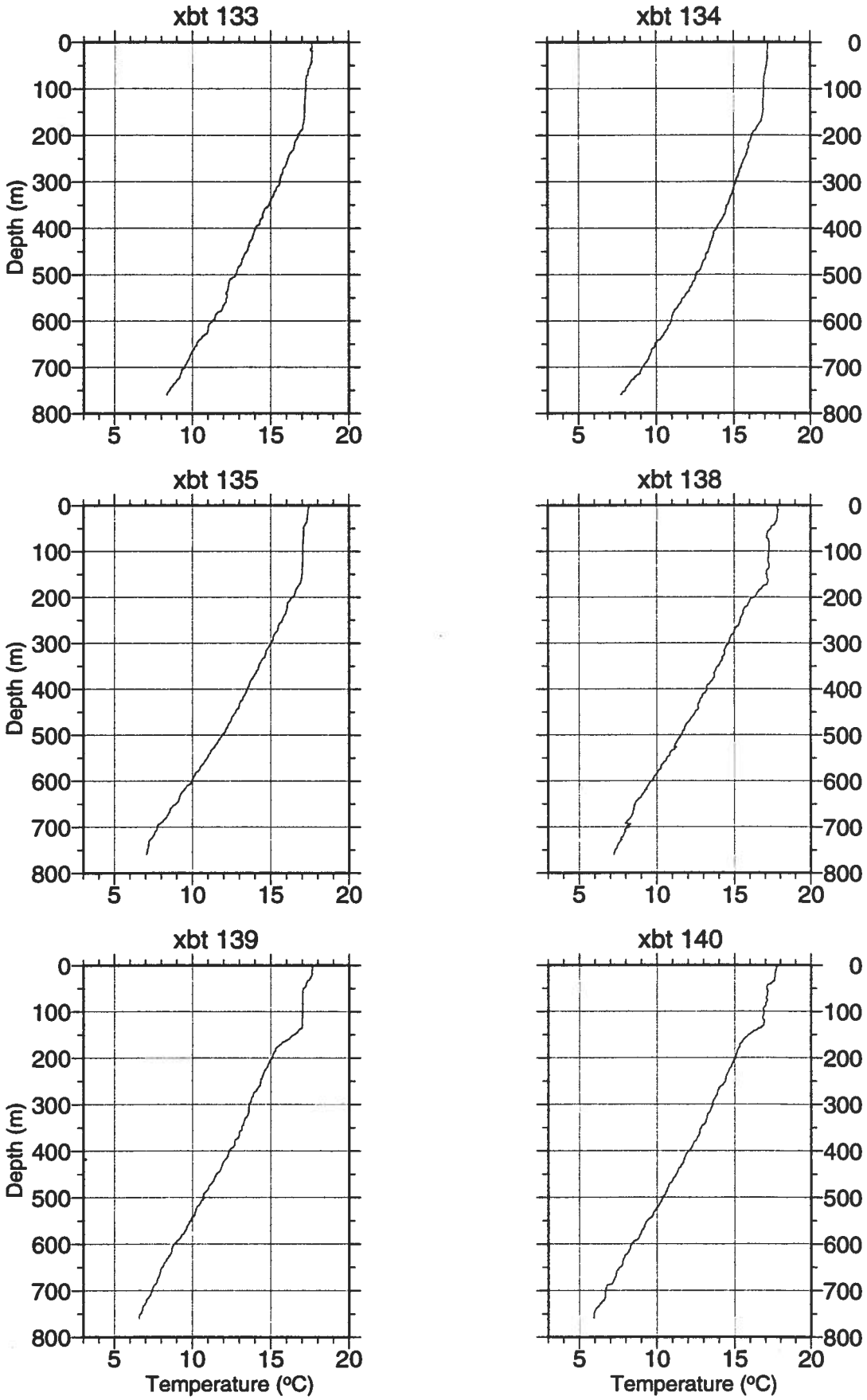
Temperature (°C)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xbt 134
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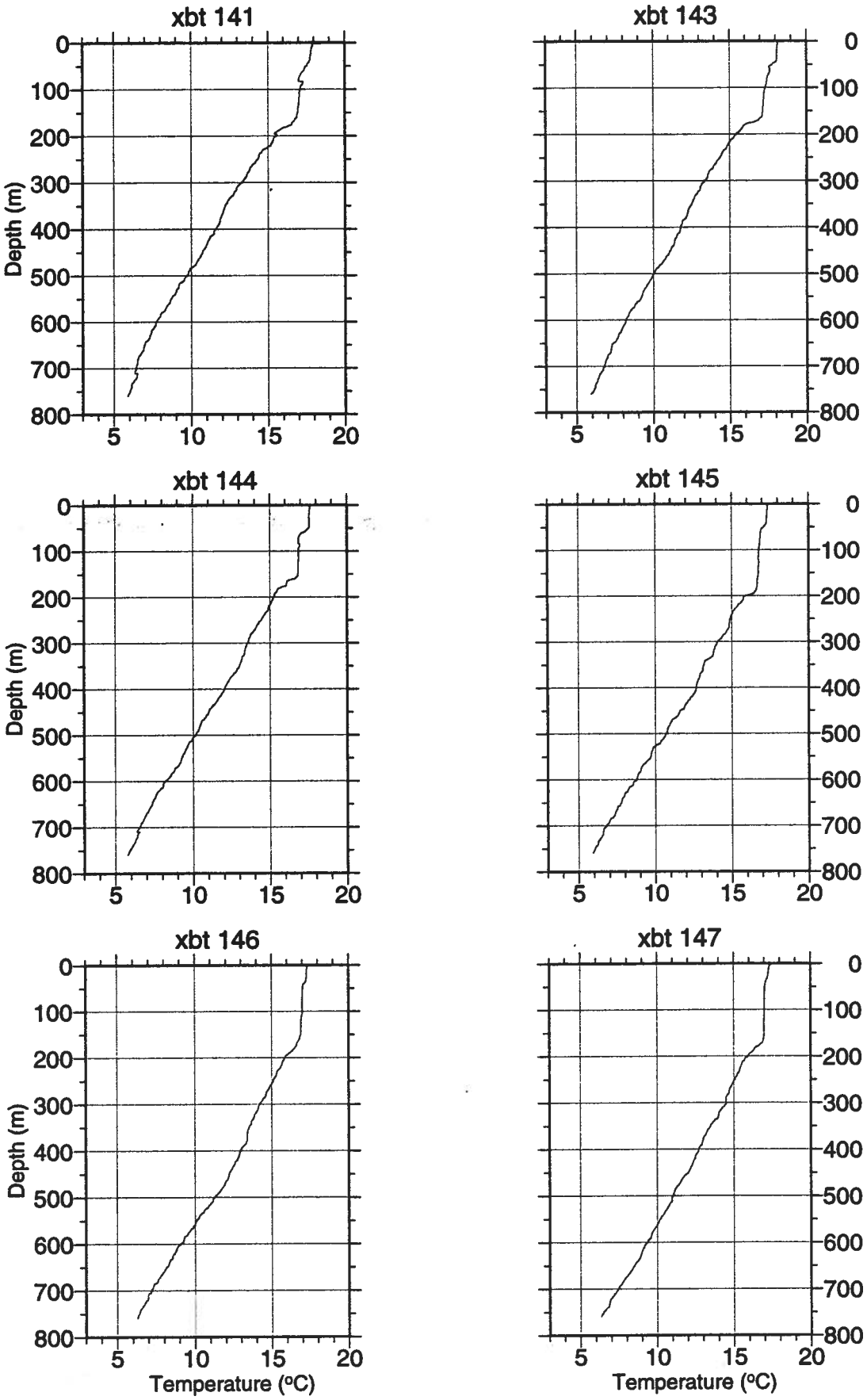
Temperature (°C)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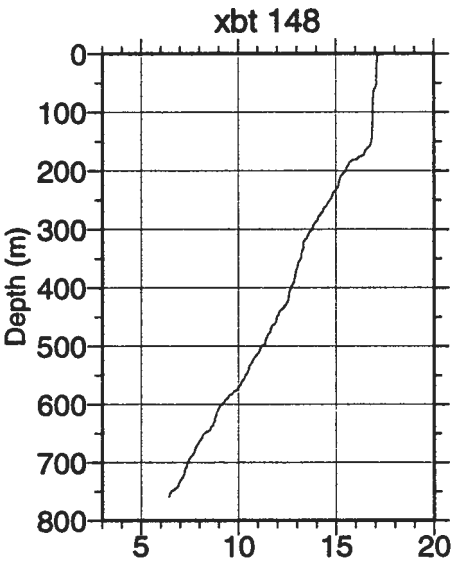
Temperature (°C)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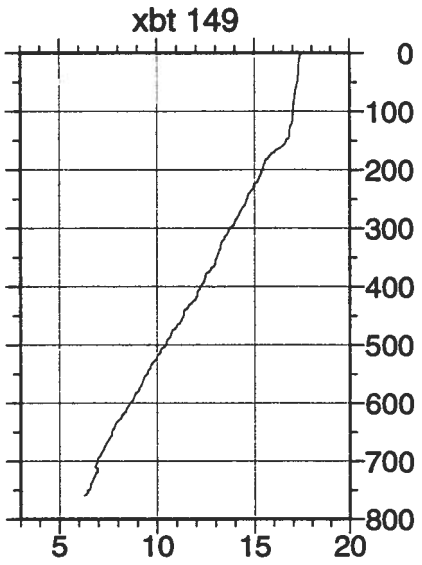
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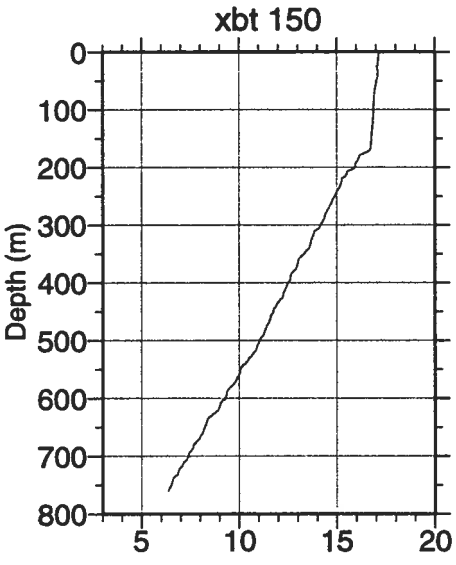
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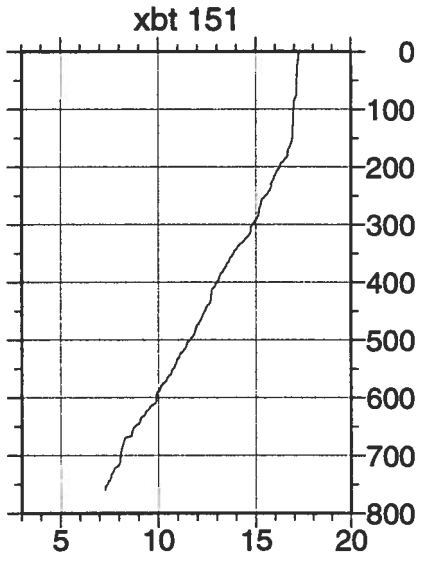
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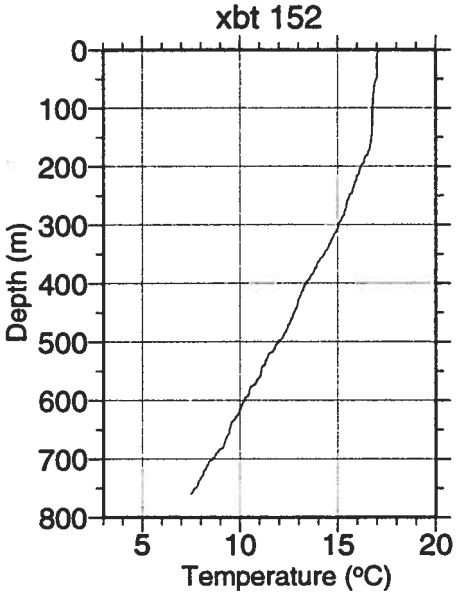
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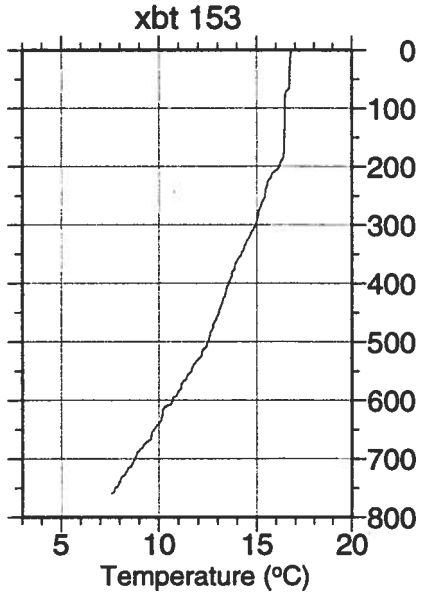
Temperature (°C)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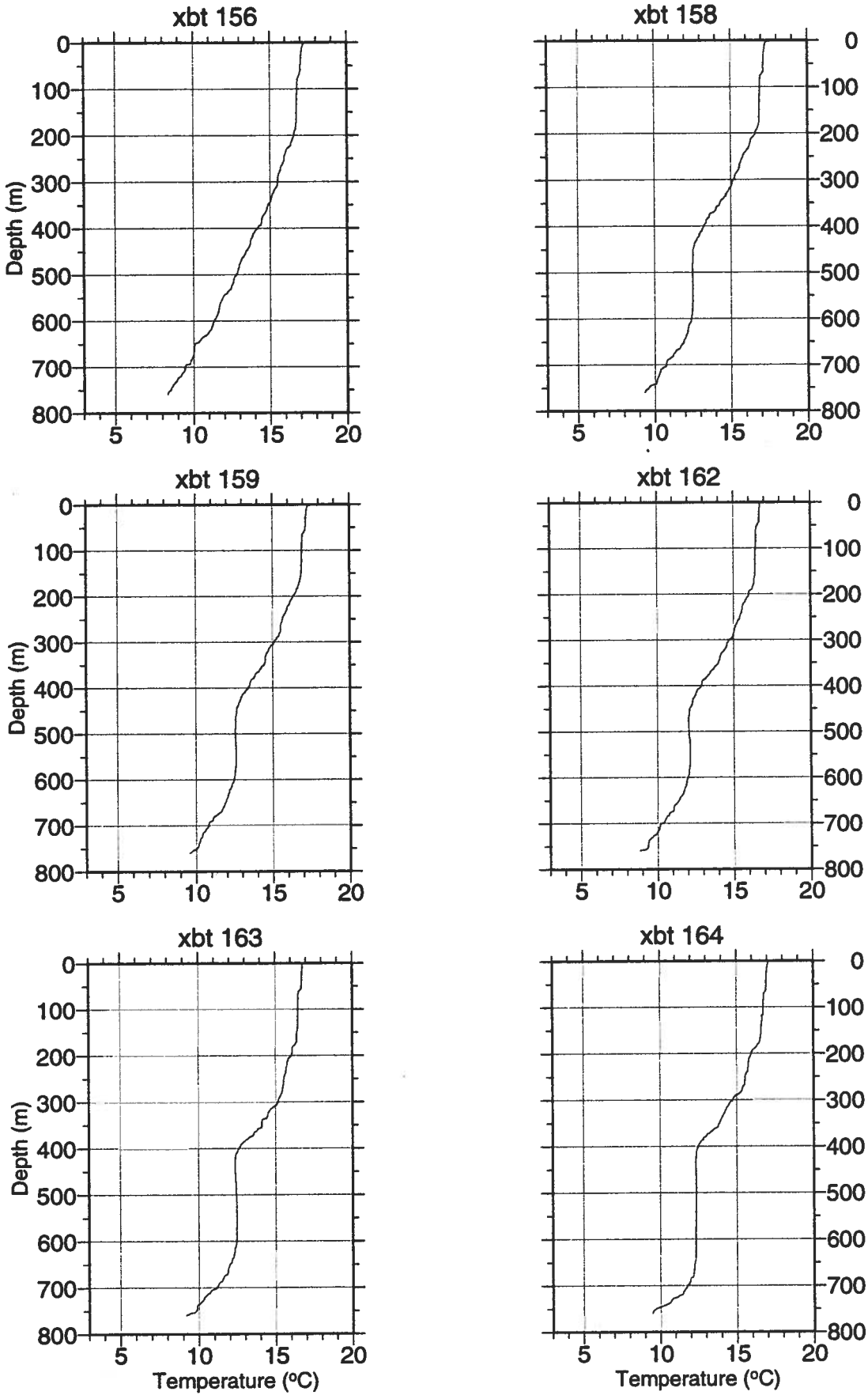
Temperature (°C)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xbt 158
xbt 159
xbt 162
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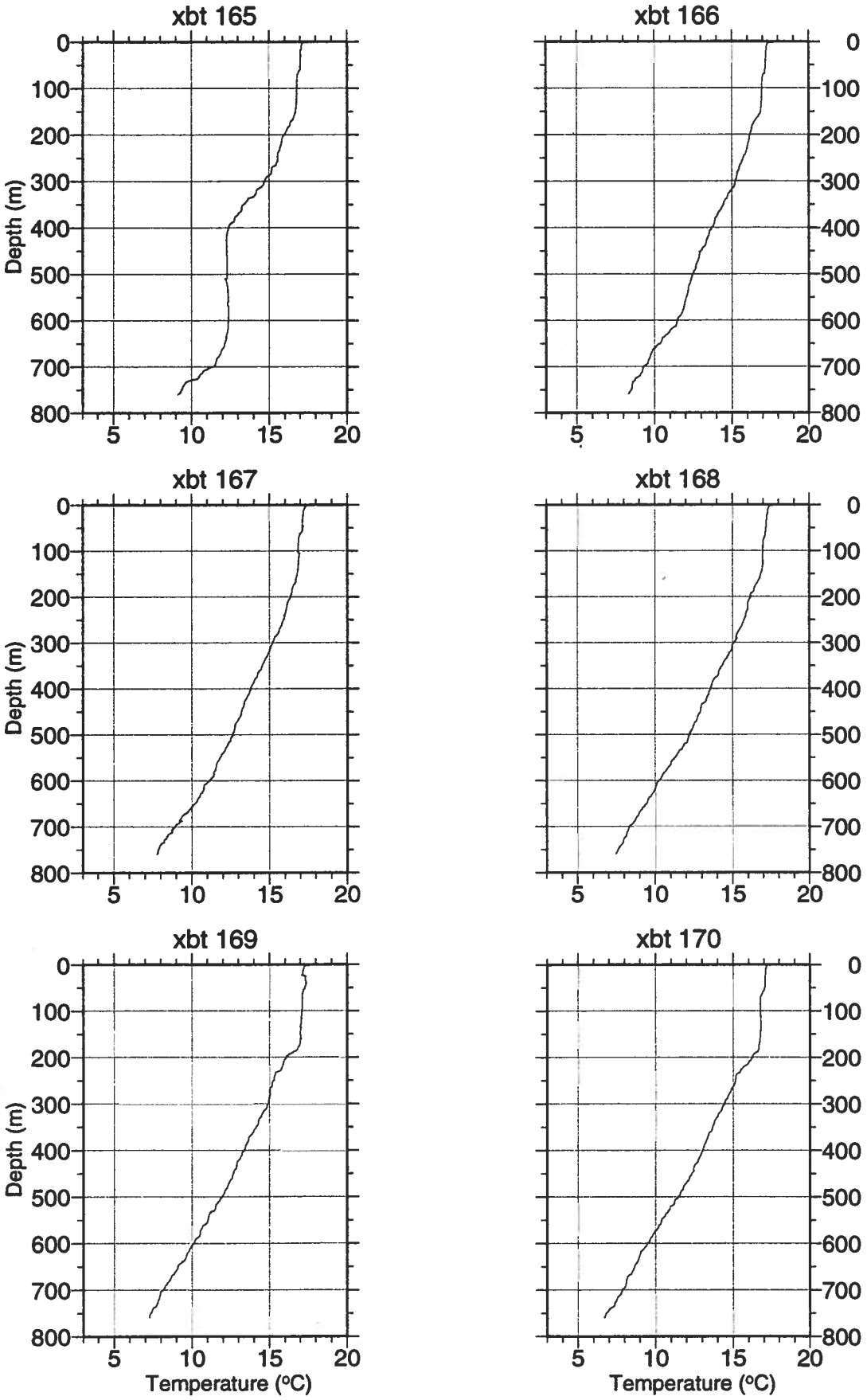
Temperature (°C)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xbt 166
xbt 167
xbt 168
xbt 169
xbt 170
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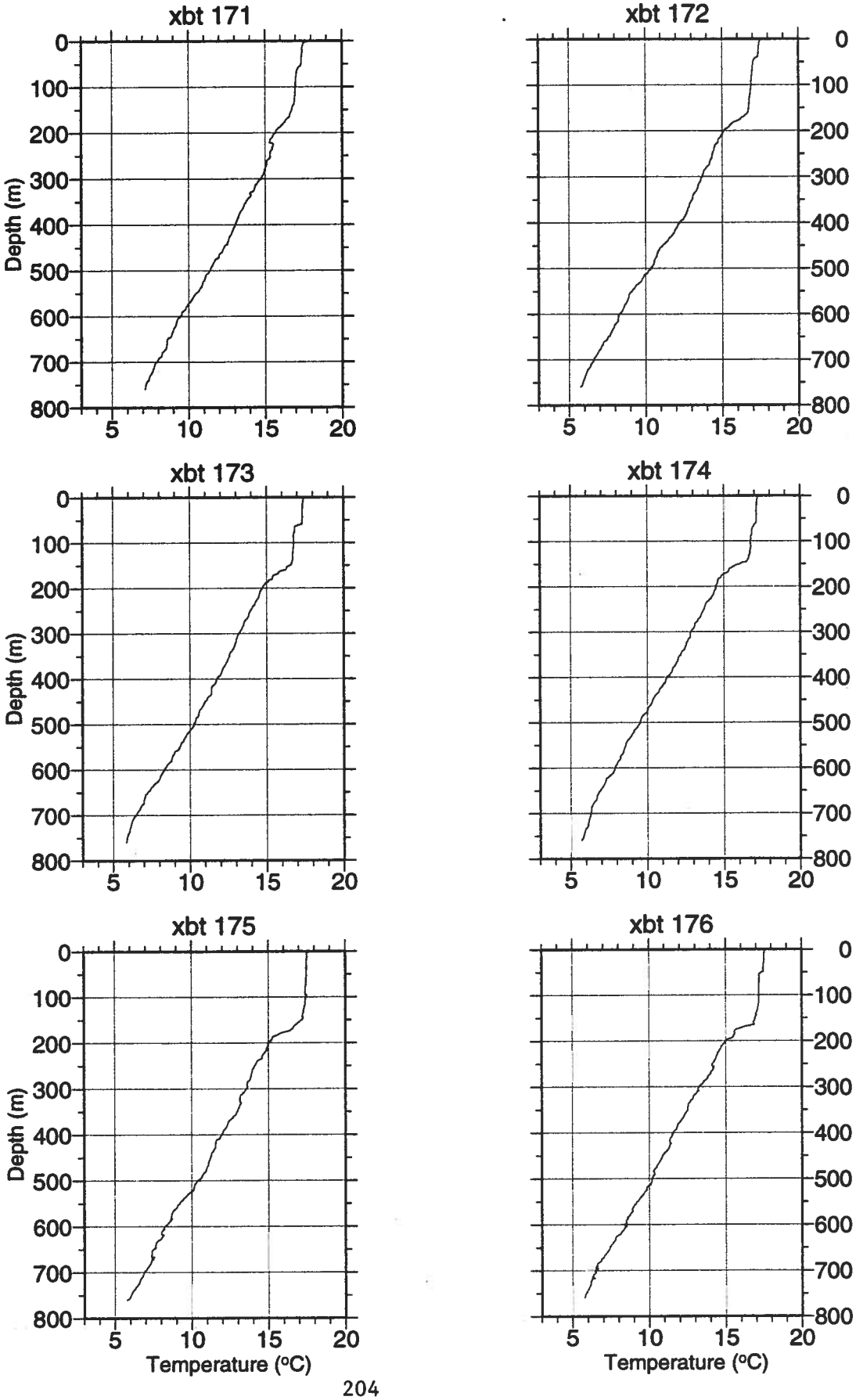
Temperature (°C)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xbt 172
xbt 173
xbt 174
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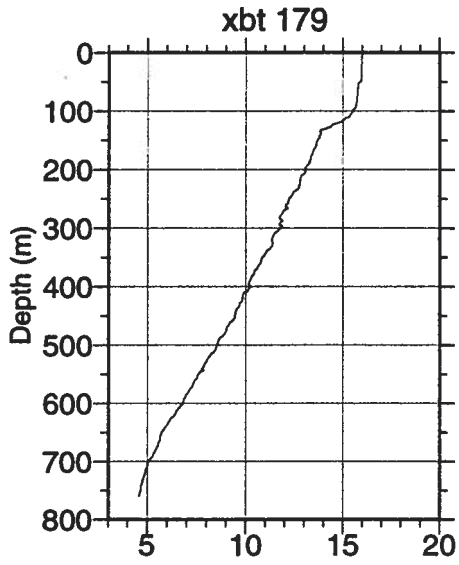
Temperature (°C)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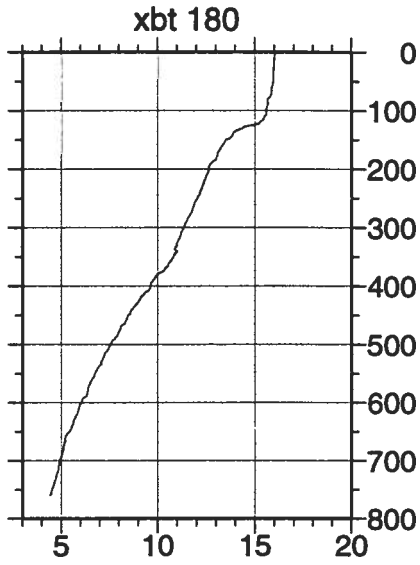
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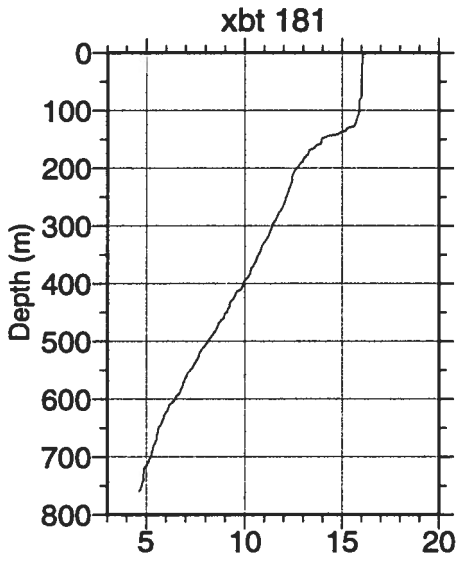
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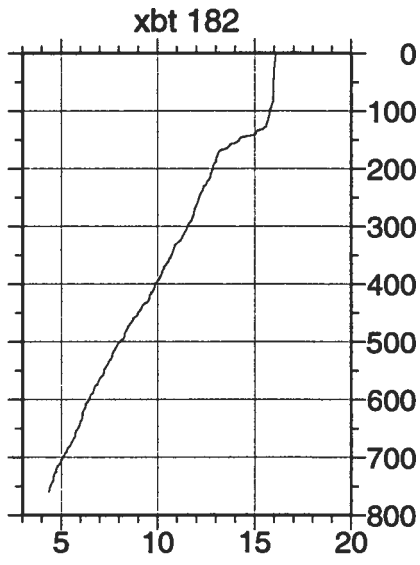
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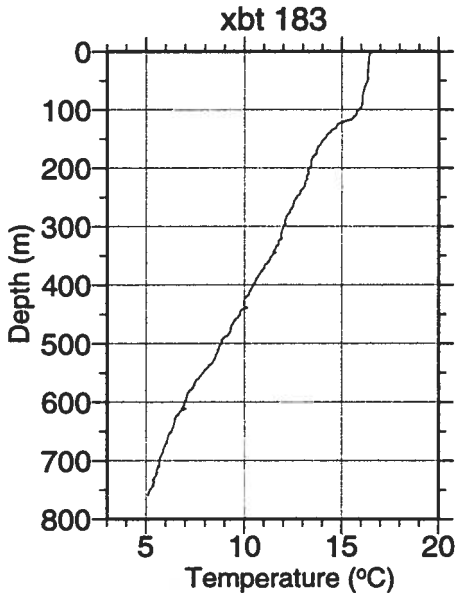
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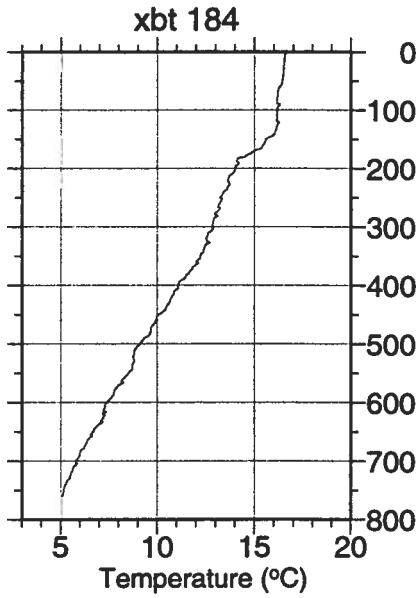
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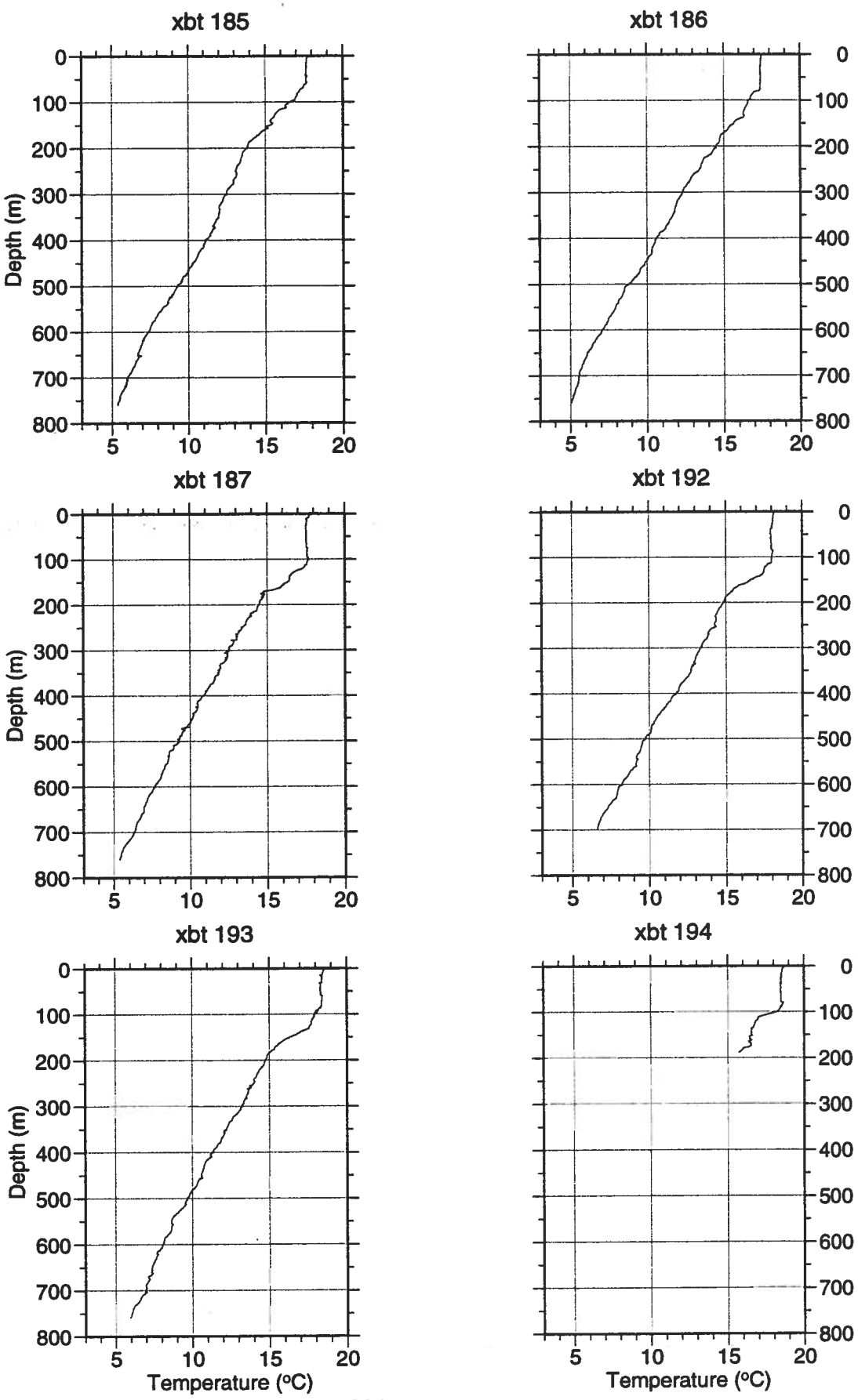
Temperature (°C)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xbt 186
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Temperature (°C)
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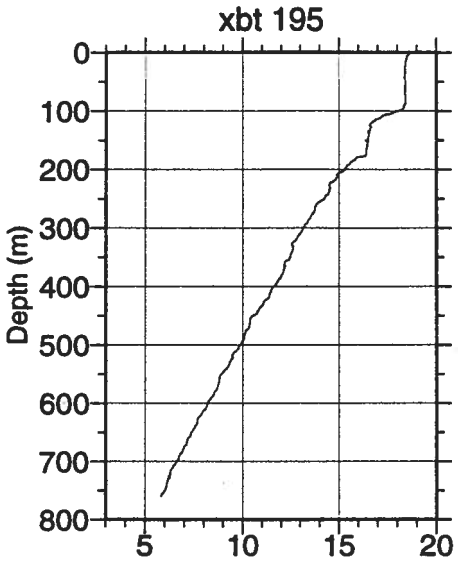
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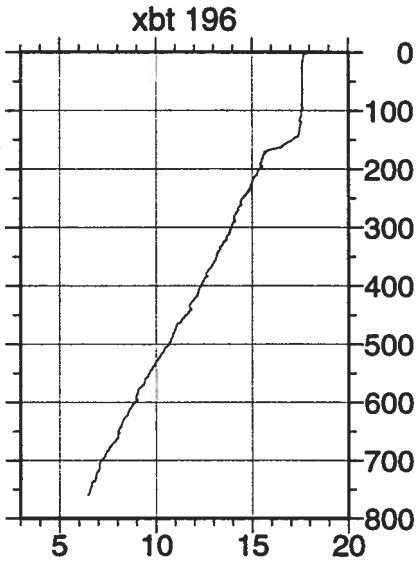
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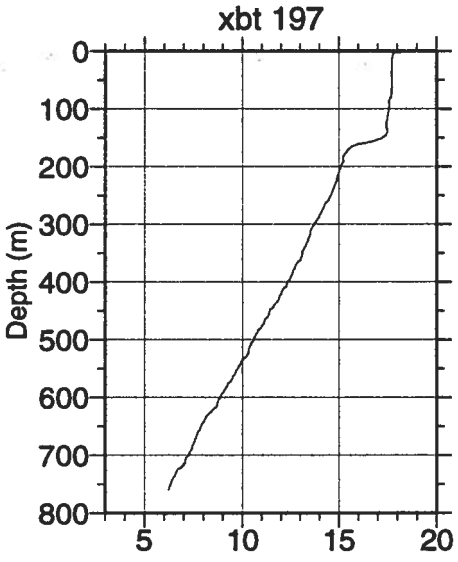
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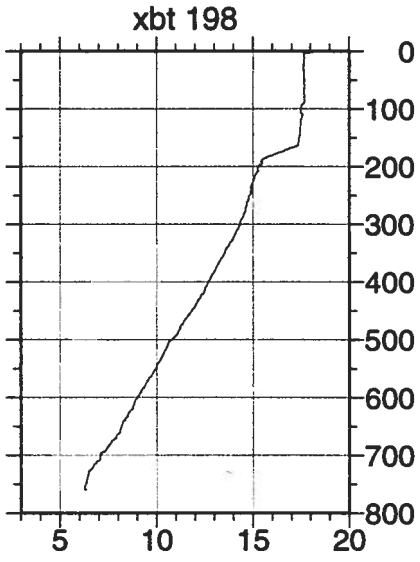
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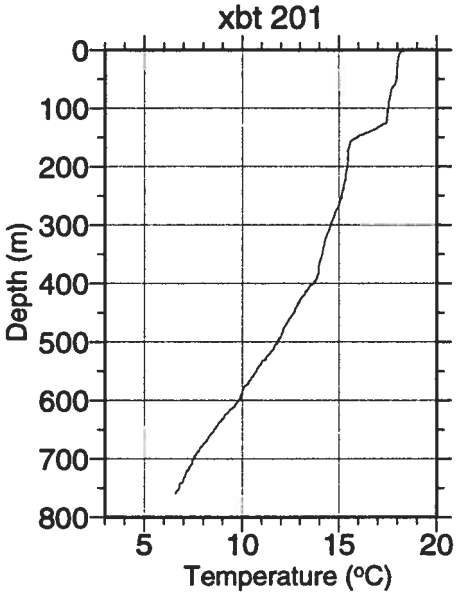
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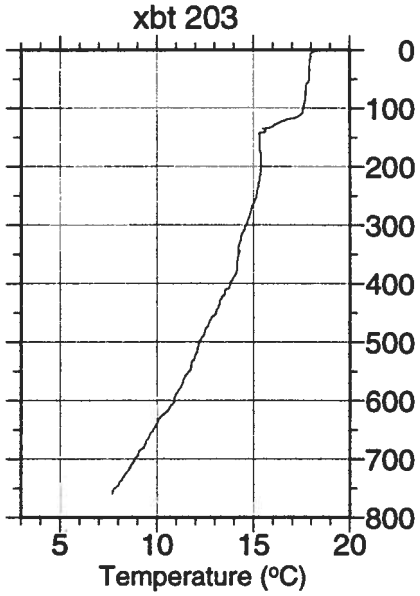
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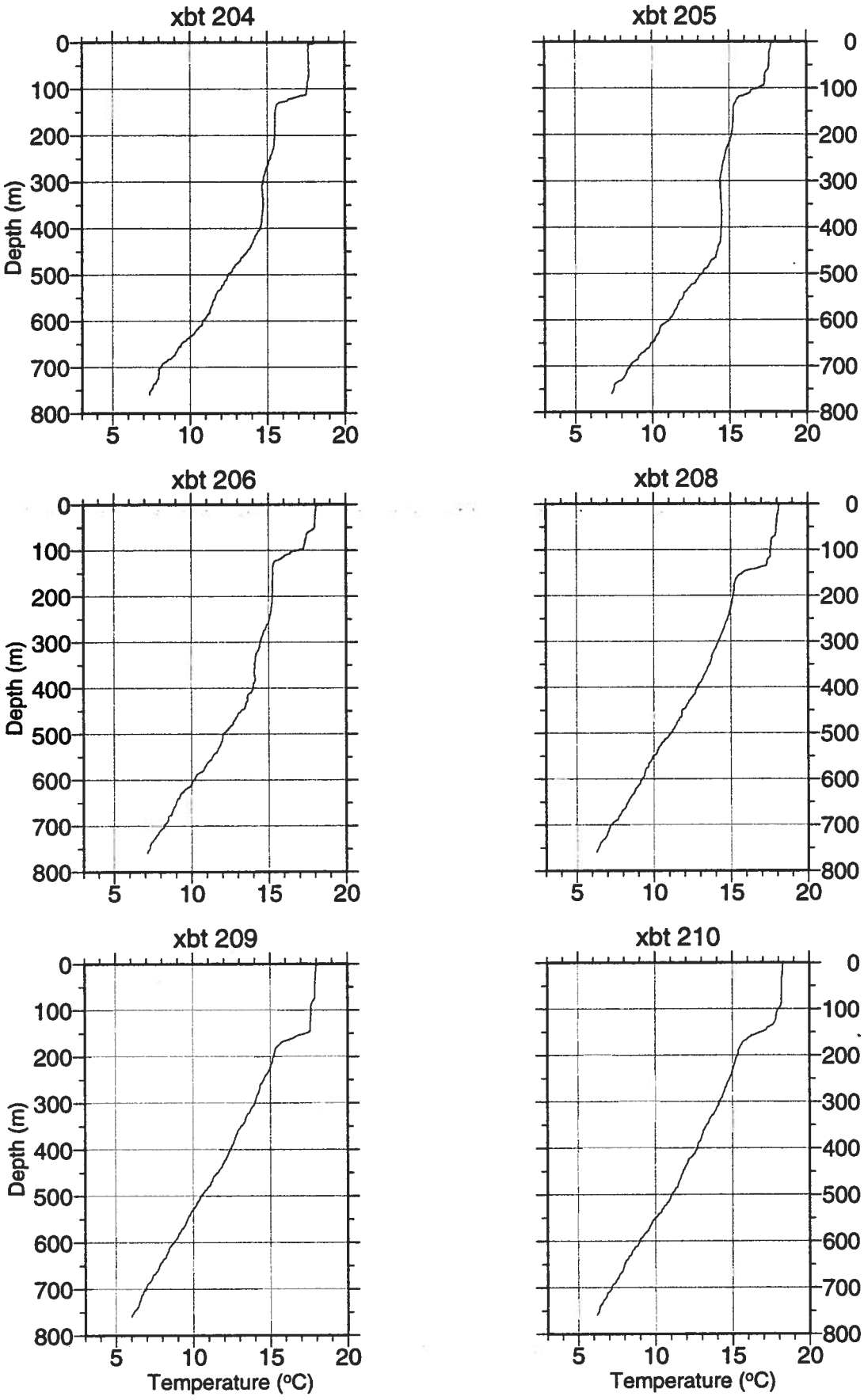
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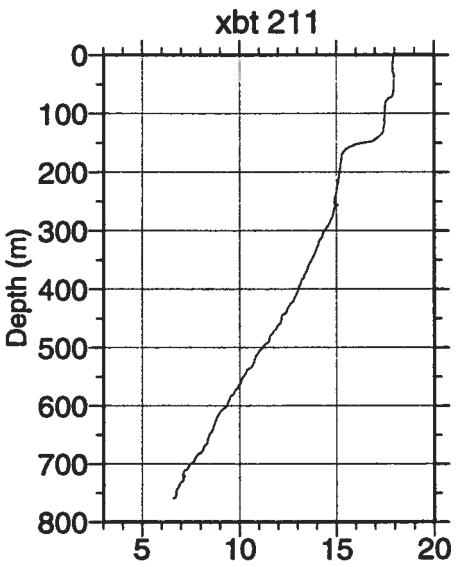
Temperature (°C)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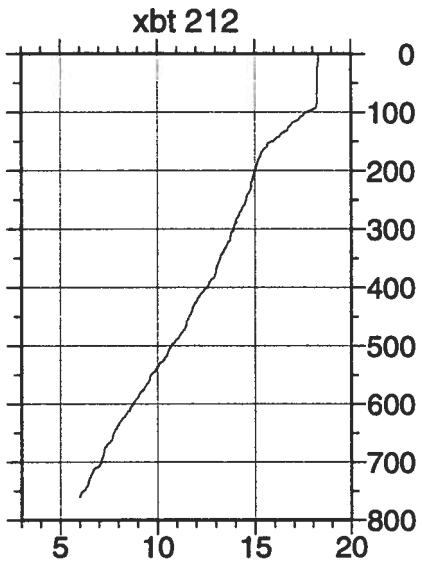
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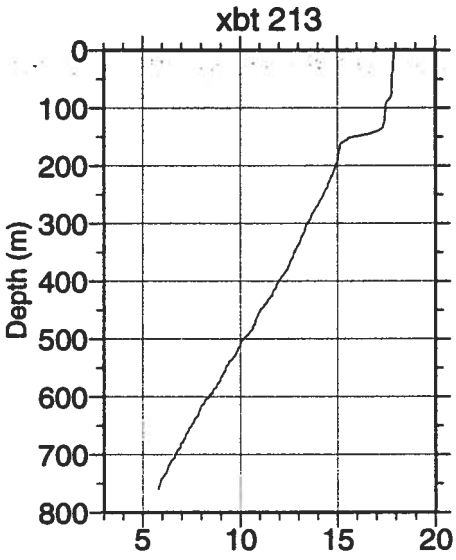
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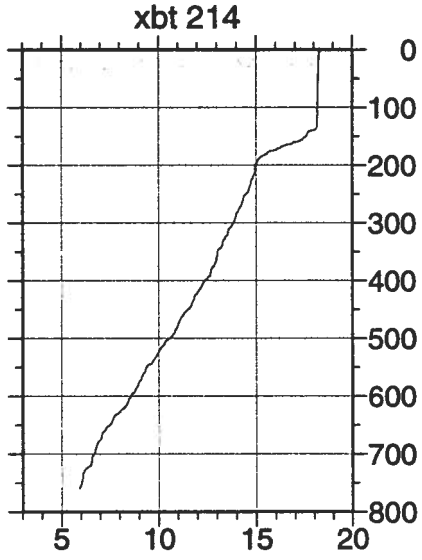
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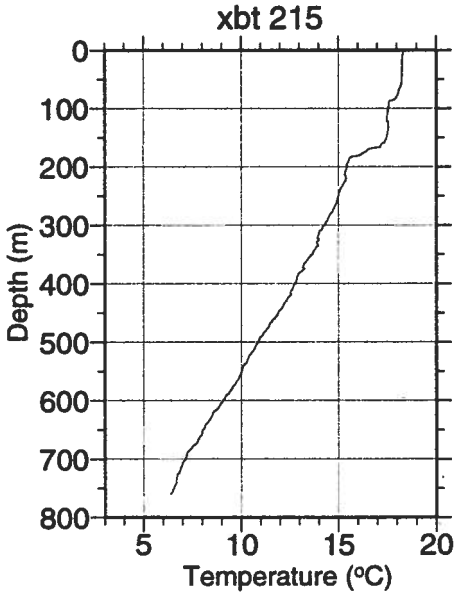
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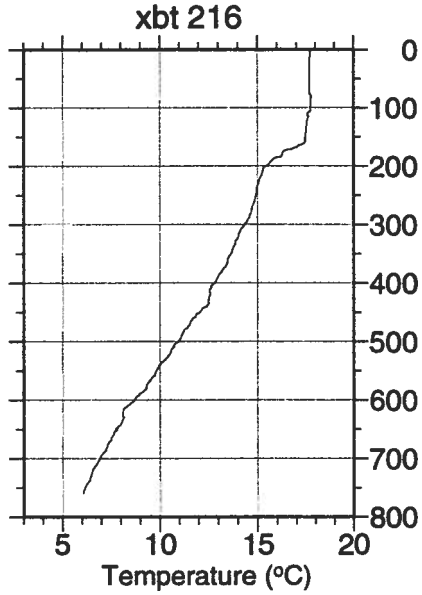
Temperature (°C)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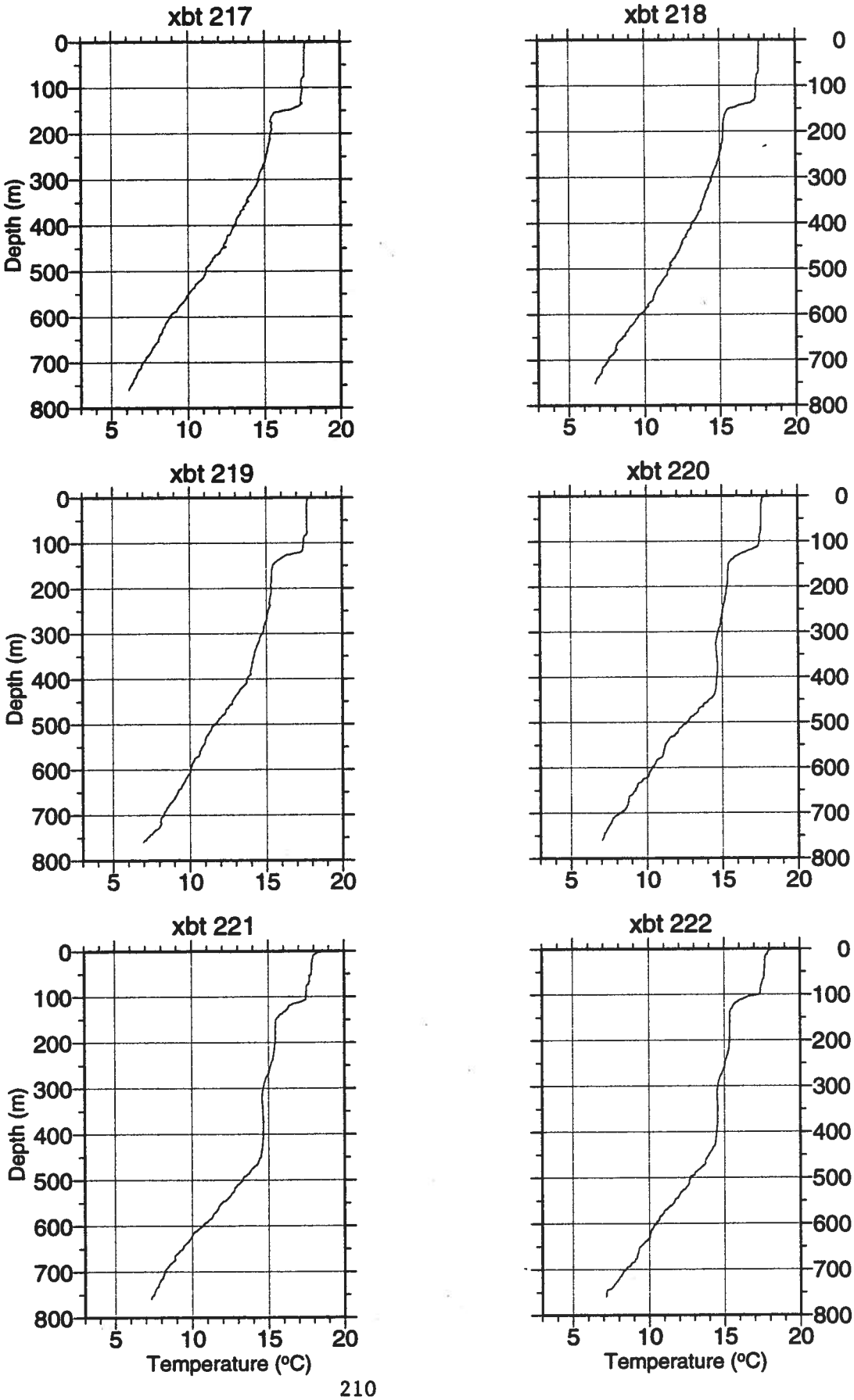
Temperature (°C)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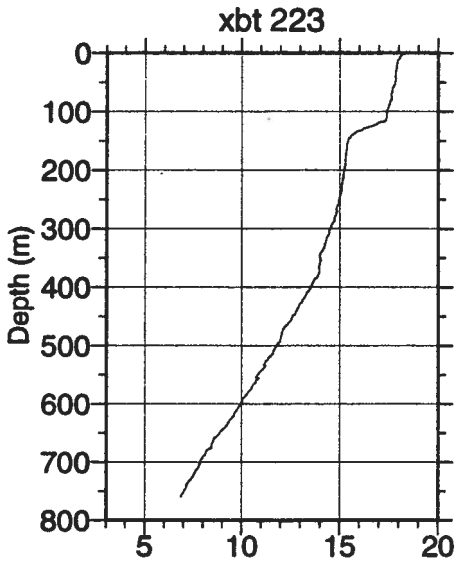
Temperature (°C)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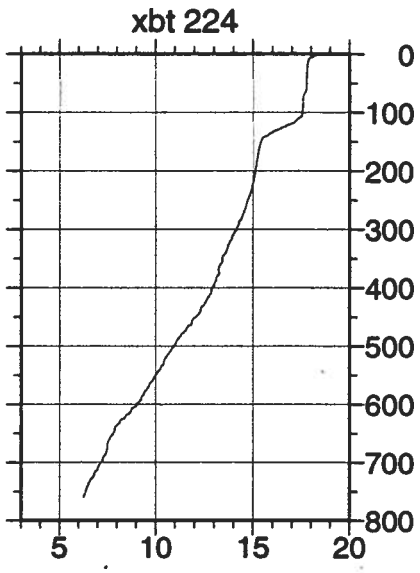
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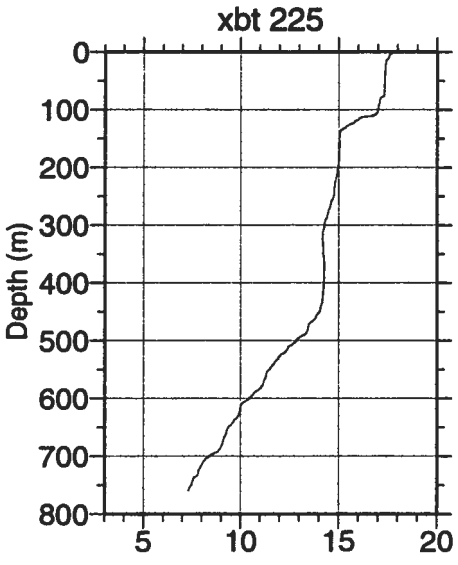
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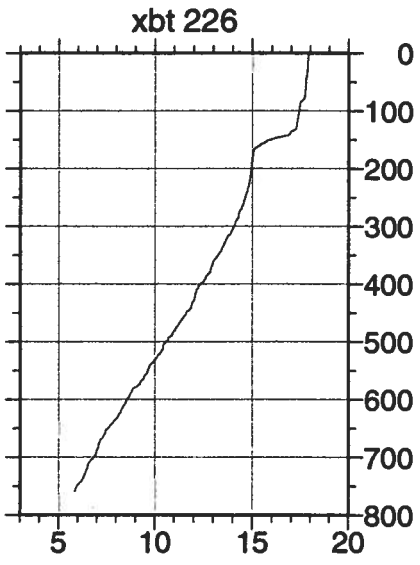
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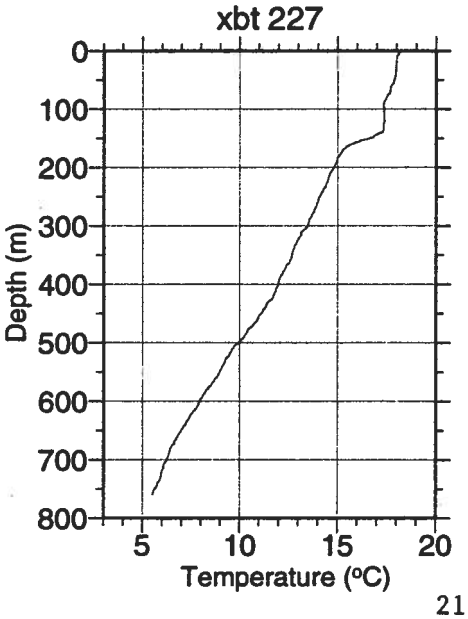
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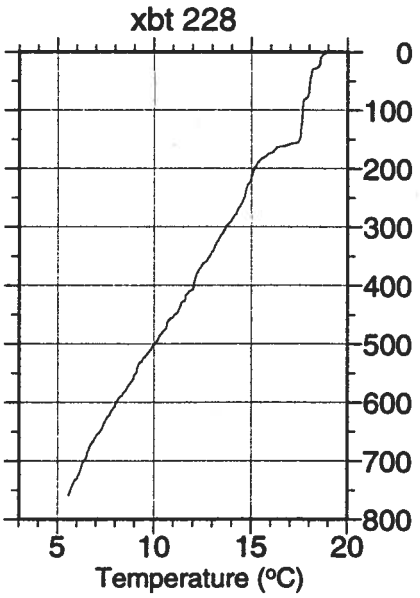
Temperature (°C)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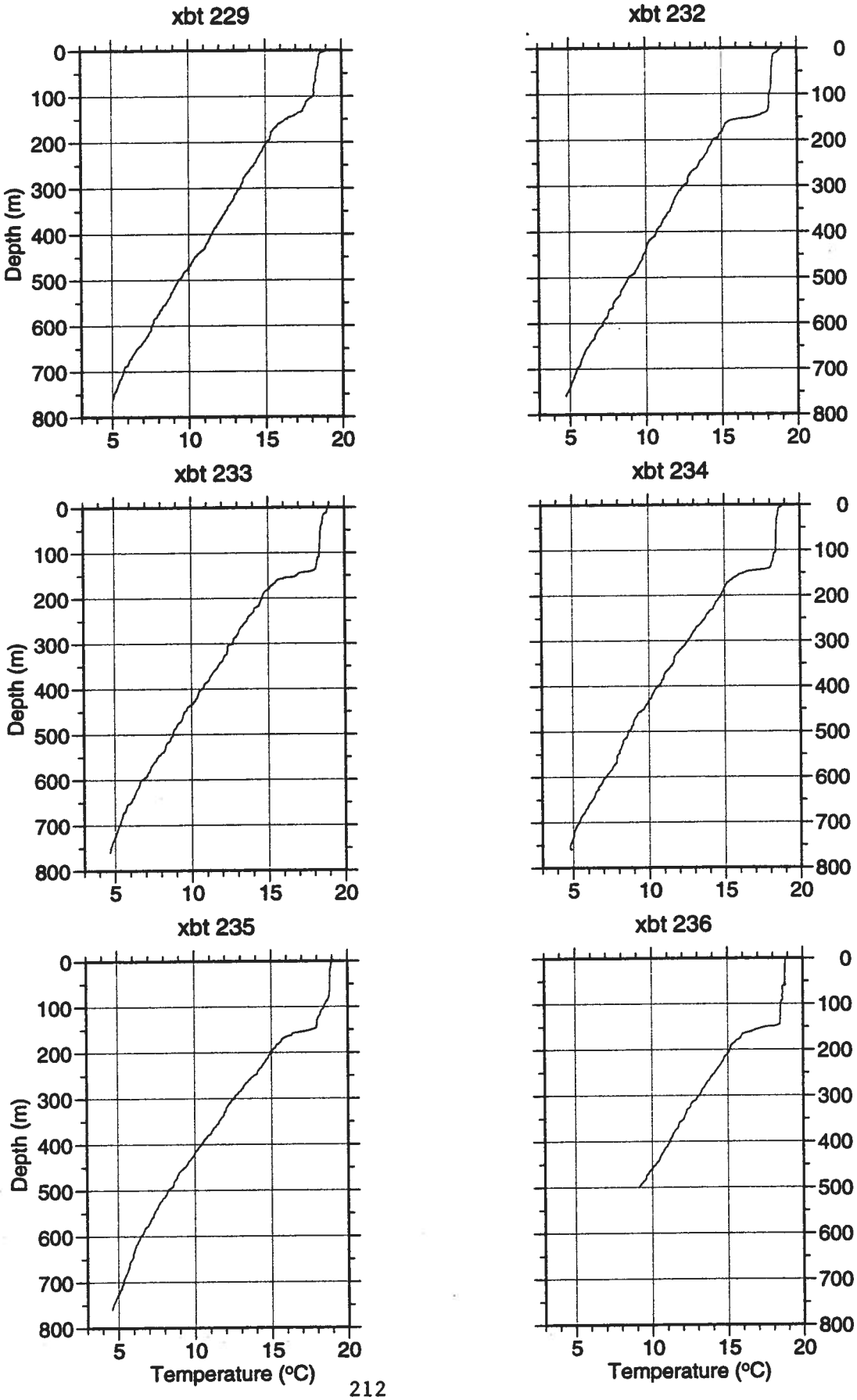
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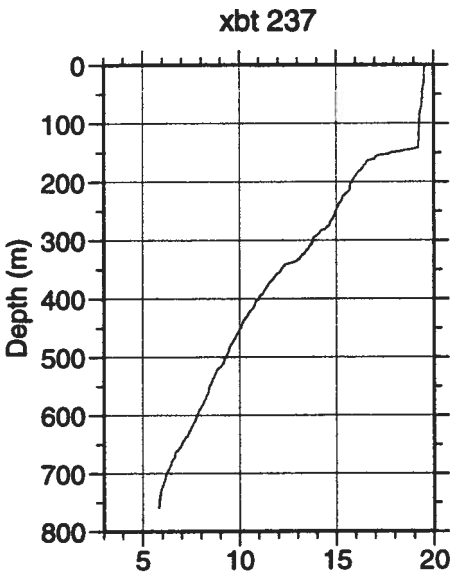
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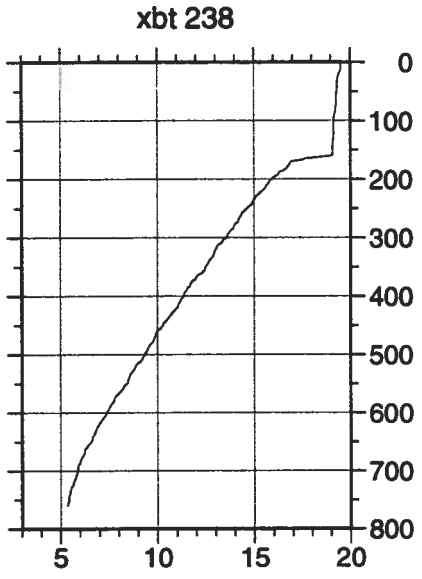
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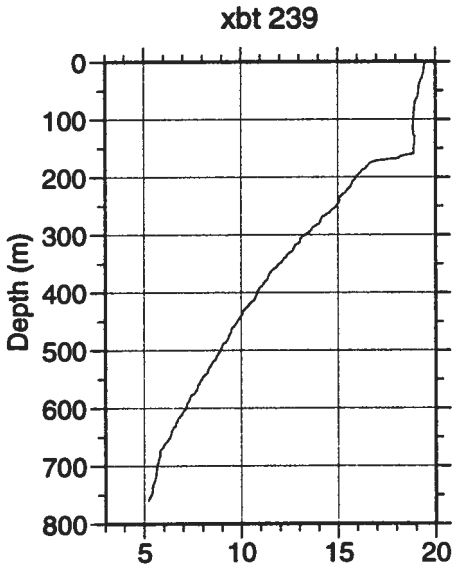
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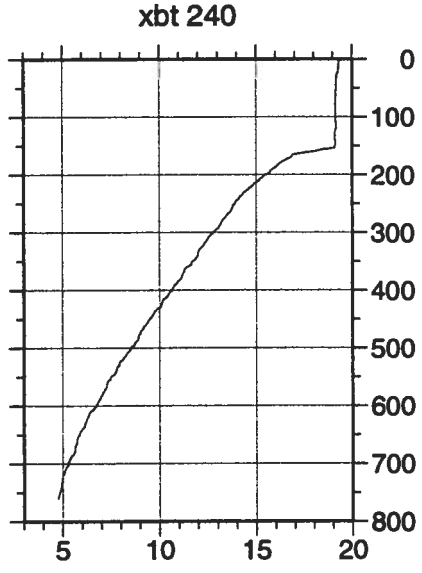
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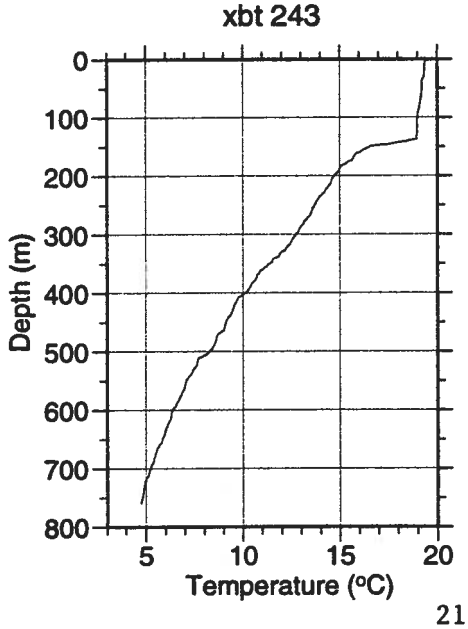
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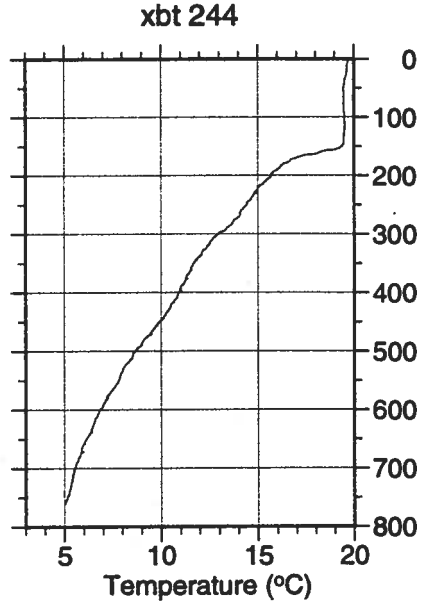
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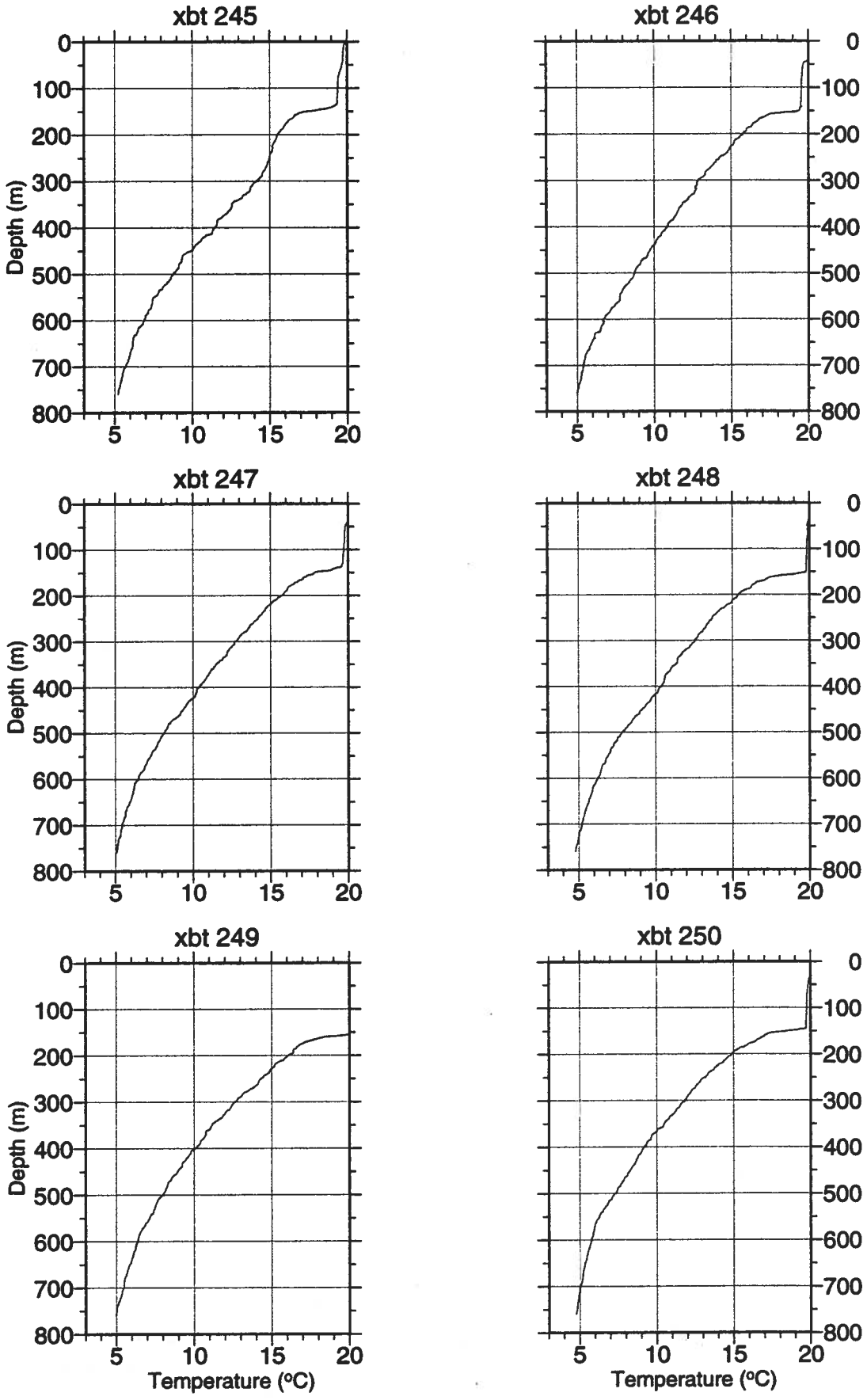
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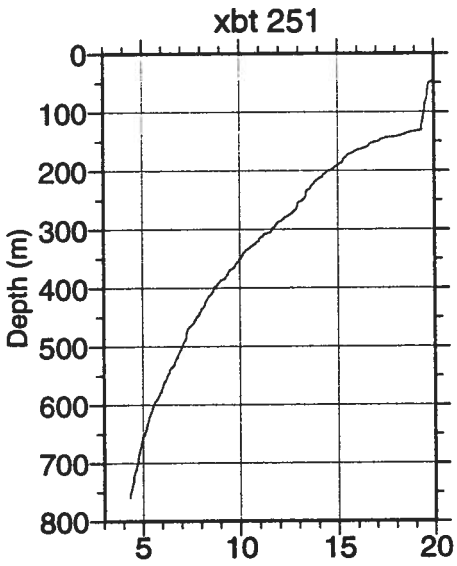
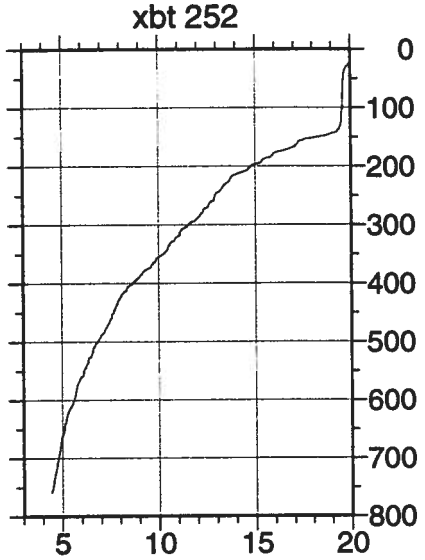
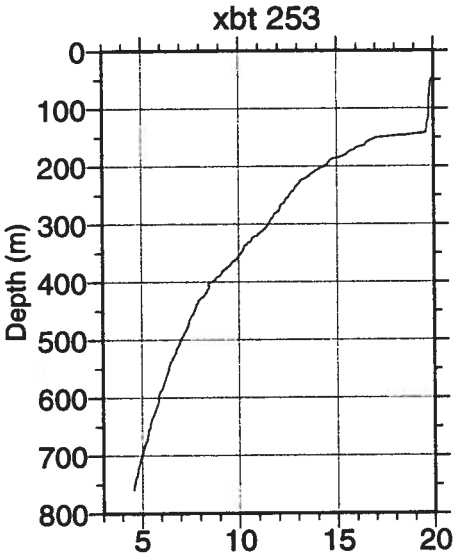
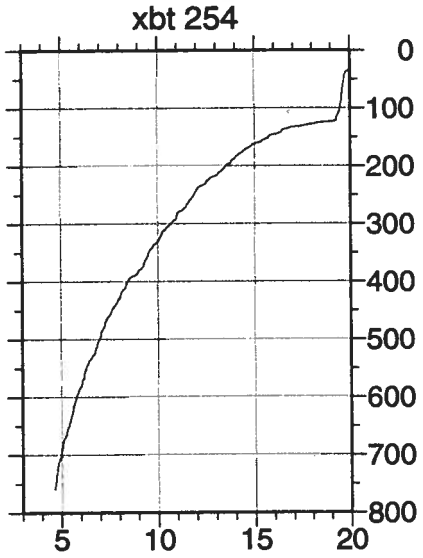
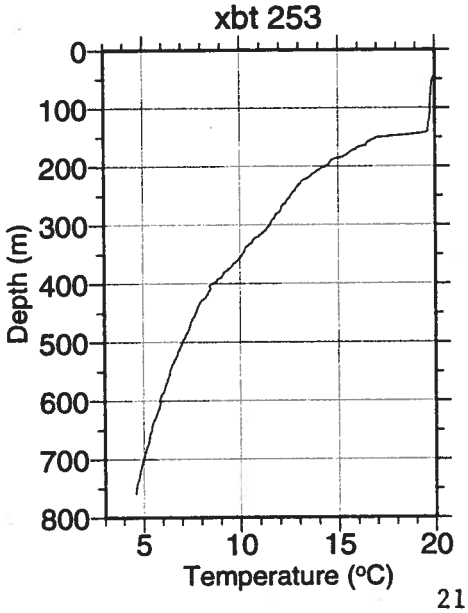
Temperature (°C)

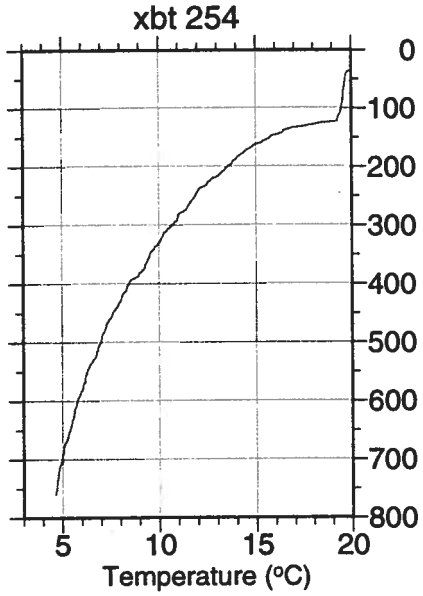


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