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54

# Oceanographic data: Enderby Land region - Antarctic Division BIOMASS Experiment III, MV Nella Dan, September-December 1985

E.J. Woehler, K.R. Kerry, S.E. Humphries and M.S. Robb

ANTARCTIC DIVISION
DEPARTMENT OF SCIENCE

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Since the summer season of 1980-81, six cruises have been undertaken by Australia to obtain data to contribute to the international BIOMASS (Biological Investigation of Marine Antarctic Systems and Stocks) program.

| Cruise | Dates in study area | Principal objectives |
|---|---|---|
| FIBEX | 20 Jan 1981 - 15 Mar 1981 | Acoustic survey for krill |
| GEOSCIENCE | 20 Jan 1982 - 3 Mar 1982 | Seismic survey |
| ADBEX I | 19 Nov 1982 - 17 Dec 1982 | Krill biology, oceanography |
| ADBEX II (= SIBEX I) | 7 Jan 1984 - 12 Feb 1984 | Krill biology |
| SIBEX II | 3 Jan 1985 - 26 Jan 1985 | Krill distribution, phytoplankton |
| ADBEX III | 21 Sep 1985 - 13 Dec 1985 | Seal survey |

This issue is one of a number of reports dealing with oceanographic data from these cruises that will appear in the ANARE Research Notes series.

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TABLE

# OCEANOGRAPHIC DATA: ENDERBY LAND REGION - ANTARCTIC DIVISION BIOMASS EXPERIMENT III, MV NELLA DAN, SEPTEMBER-DECEMBER 1985

by

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## ABSTRACT

Fifty CTD stations were taken during the ADBEX III cruise, September-December 1985 between the northernmost margin of the sea-ice and the Antarctic coast when the sea-ice was near its maximum extent. Casts were made to 2000 m or to near bottom over the continental shelf. *In situ* salinity, temperature and sigma-t are tabulated for standard depths, and shown graphically. T/S plots for stations are given.

## 1. INTRODUCTION

Oceanographic data were obtained during the Antarctic Division BIOMASS Experiment III (ADBEX III) cruise on MV Nella Dan September-December 1985. The principal aim of the cruise was to undertake a survey of Crabeater seals (Lobodon carcinophagus) in the pack-ice adjacent to the Antarctic continent. The opportunity was taken to conduct oceanographic studies in the pack-ice zone when the sea-ice was near to its maximum northern extent (Jacka 1983). The cruise track is given in Figures 1(a) and 1(b). The area surveyed was south of 50°S to the Antarctic coast and between 50°E and 70°E.

A series of CTD stations was taken in late September at the outer margin of the pack-ice. A second series of stations was taken during October as ice conditions permitted and the ship progressed towards the coast (Figure 2(a)). The ship was beset from 28 October to 14 December 1985 near Cape Ann, Enderby Land and drifted within the pack-ice with wind and ocean currents (Figure 1(b)). During this time CTD stations were taken through the ice to the north and south of the shelf break as the ship drifted on and off the continental shelf (Figure 2(b)).

Ice conditions prevailing are described by Jacka and Allison (in press), and meteorology by Wilson (1986). Nutrient data obtained on the cruise are reported by Humphries (1987).

This Research Note is the fifth of a series presenting oceanographic data collected on an annual basis since 1980-81.

The oceanographic program was usually subordinate to other programs and so the location, timing and depth of stations was not always ideal for oceanographic purposes.

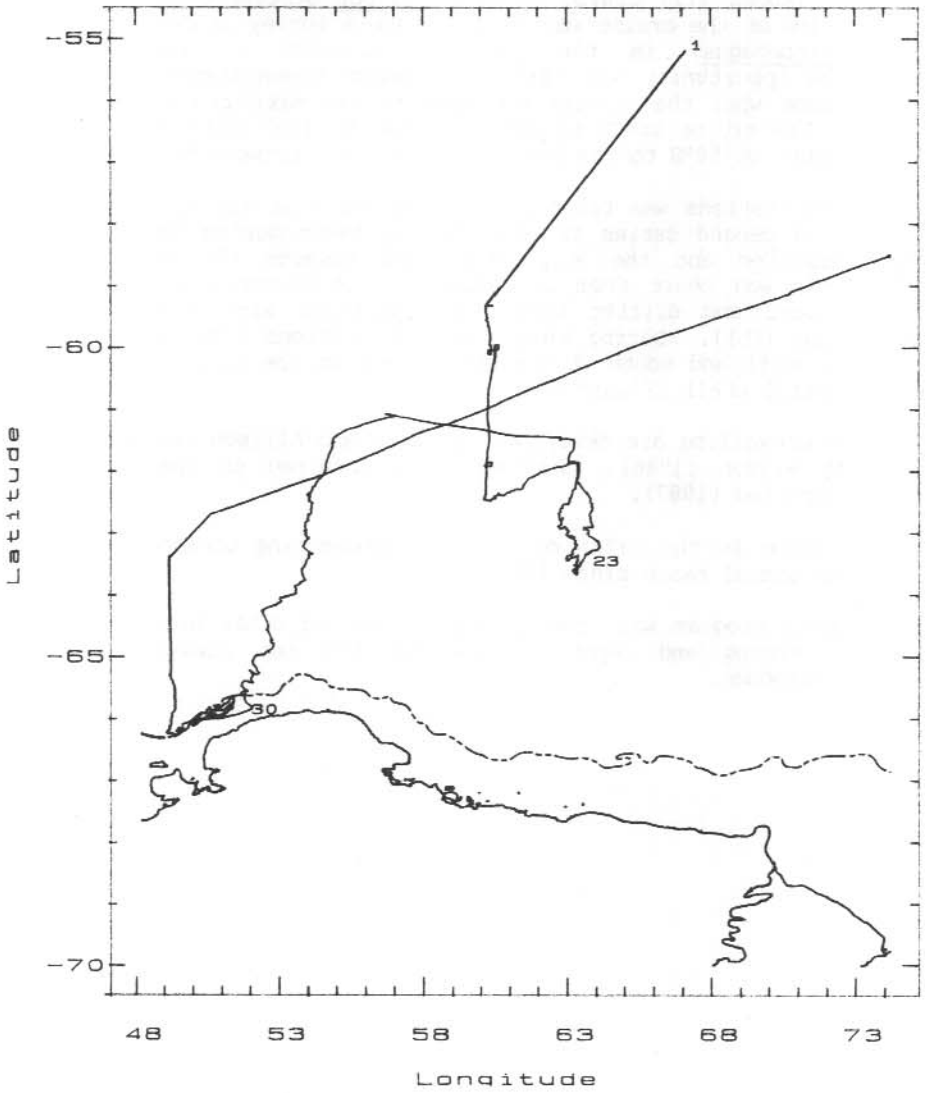



Figure 1(a). ADBEX III cruise track.

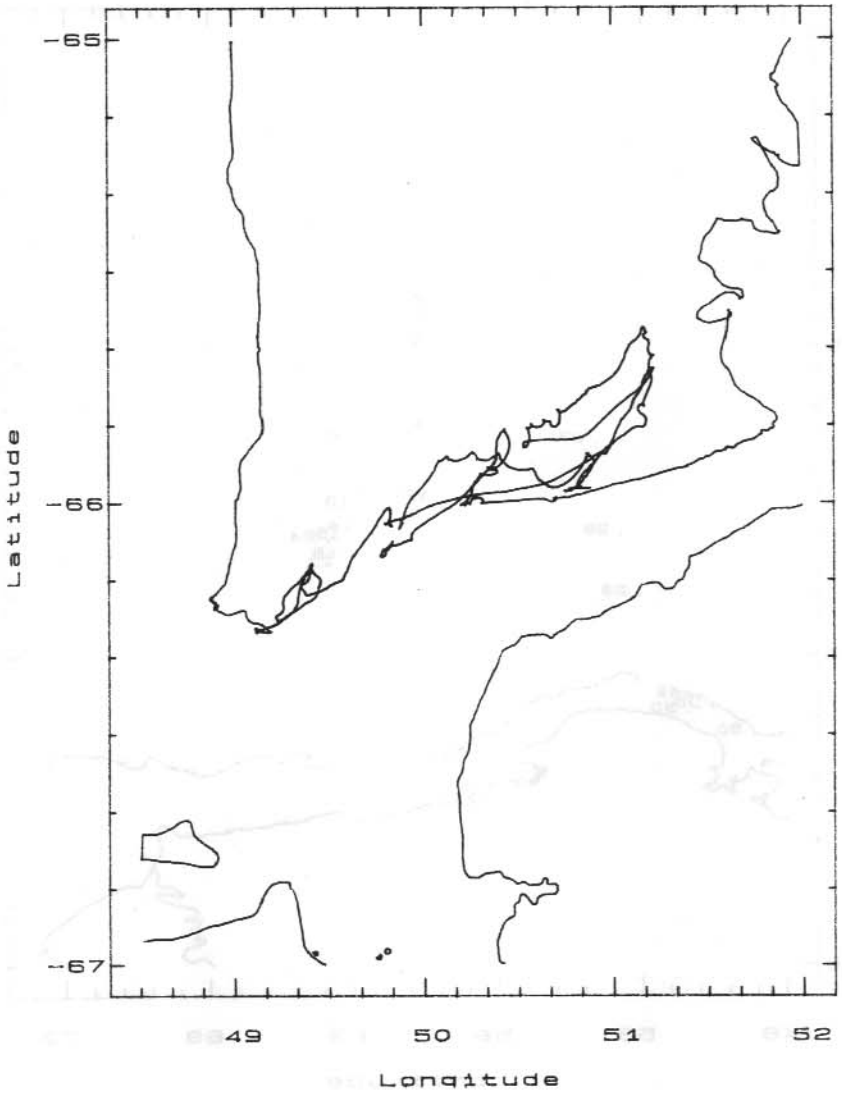



Figure 1(b). ADBEX III cruise track during besetment.

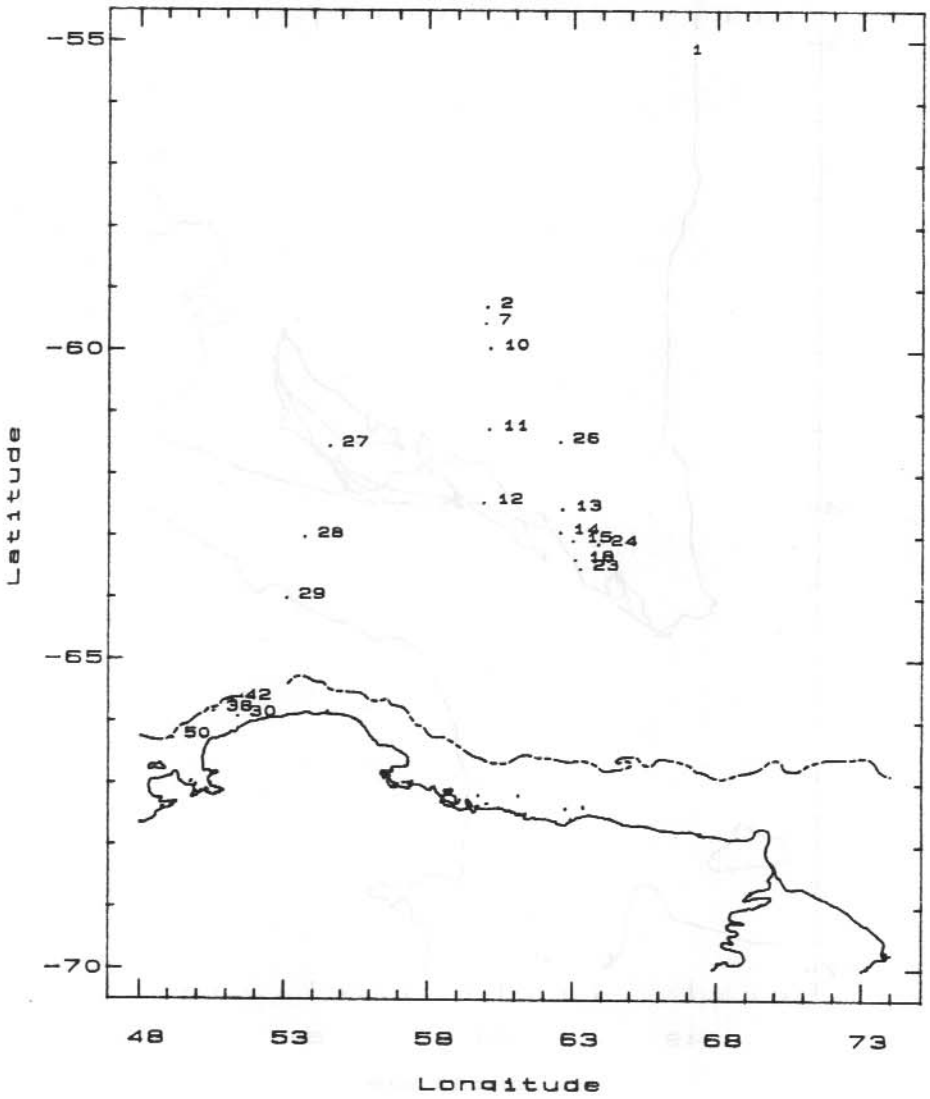



Figure 2(a). Location of CTD stations. Due to the proximity of some stations to each other, it was not possible to show some stations on the map, but their exact locations are given in Table 1. The station numbers of the excluded stations are given here in brackets following the number of the proximate mapped station: 7(8), 10(9), 15(16, 17, 19 to 22), 26(25); details of stations 30 and following are shown in Figure 2(b).

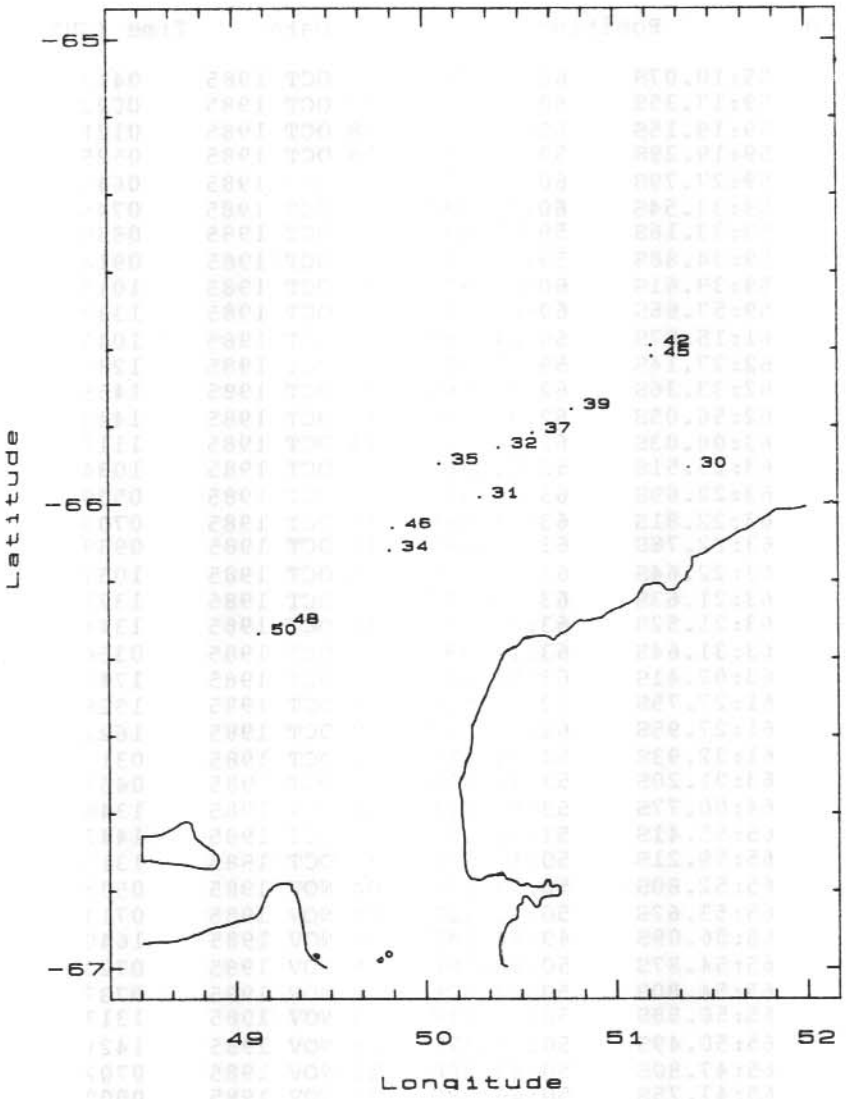



Figure 2(b). Location of CTD stations in the region where Nella Dan was beset; the area within the triangle of stations marked by stations 30, 42 and 50 in Figure 2(a). The excluded stations are given here following the format described for Figure 2(a): 32(33), 35(36), 37(38), 39(41), 42(43, 44), 46(47), 48(49).

Table 1. Hydrographic stations, giving position, GMT date and time.

Cruise: ADBEX 3 Vessel: NELLA DAN

| CTD Station | Position | | Date | Time (GMT) |
|---|---|---|---|---|
| 1 | 55:10.07S | 66:35.49E | 06 OCT 1985 | 0417 |
| 2 | 59:17.35S | 60:00.73E | 08 OCT 1985 | 0022 |
| 3 | 59:19.15S | 60:01.43E | 08 OCT 1985 | 0121 |
| 4 | 59:19.29S | 59:58.19E | 08 OCT 1985 | 0525 |
| 5 | 59:27.79S | 60:00.77E | 08 OCT 1985 | 0644 |
| 6 | 59:31.54S | 60:00.88E | 08 OCT 1985 | 0746 |
| 7 | 59:33.16S | 59:57.64E | 08 OCT 1985 | 0830 |
| 8 | 59:34.88S | 59:58.07E | 08 OCT 1985 | 0914 |
| 9 | 59:39.61S | 60:03.95E | 08 OCT 1985 | 1019 |
| 10 | 59:57.66S | 60:07.13E | 08 OCT 1985 | 1339 |
| 11 | 61:15.87S | 60:04.88E | 09 OCT 1985 | 1045 |
| 12 | 62:27.14S | 59:53.78E | 10 OCT 1985 | 1239 |
| 13 | 62:33.36S | 62:37.16E | 12 OCT 1985 | 1455 |
| 14 | 62:56.05S | 62:31.97E | 13 OCT 1985 | 1443 |
| 15 | 63:04.03S | 62:59.04E | 14 OCT 1985 | 1117 |
| 16 | 63:25.51S | 62:51.08E | 15 OCT 1985 | 1034 |
| 17 | 63:22.69S | 63:02.53E | 16 OCT 1985 | 0509 |
| 18 | 63:22.81S | 63:03.86E | 16 OCT 1985 | 0703 |
| 19 | 63:22.78S | 63:06.66E | 16 OCT 1985 | 0959 |
| 20 | 63:22.64S | 63:07.14E | 16 OCT 1985 | 1037 |
| 21 | 63:21.63S | 63:09.89E | 16 OCT 1985 | 1321 |
| 22 | 63:21.52S | 63:10.29E | 16 OCT 1985 | 1344 |
| 23 | 63:31.64S | 63:14.09E | 18 OCT 1985 | 0356 |
| 24 | 63:07.41S | 63:51.61E | 18 OCT 1985 | 1746 |
| 25 | 61:27.75S | 62:33.47E | 20 OCT 1985 | 1528 |
| 26 | 61:27.95S | 62:31.60E | 20 OCT 1985 | 1622 |
| 27 | 61:32.93S | 54:34.18E | 22 OCT 1985 | 0317 |
| 28 | 63:01.20S | 53:42.87E | 23 OCT 1985 | 0457 |
| 29 | 64:00.77S | 53:04.32E | 24 OCT 1985 | 1346 |
| 30 | 65:55.41S | 51:22.89E | 27 OCT 1985 | 1442 |
| 31 | 65:59.21S | 50:17.08E | 30 OCT 1985 | 1310 |
| 32 | 65:52.80S | 50:23.13E | 04 NOV 1985 | 0538 |
| 33 | 65:53.62S | 50:23.12E | 04 NOV 1985 | 0713 |
| 34 | 66:06.09S | 49:48.74E | 06 NOV 1985 | 1648 |
| 35 | 65:54.87S | 50:04.58E | 09 NOV 1985 | 0723 |
| 36 | 65:54.80S | 50:04.67E | 09 NOV 1985 | 0737 |
| 37 | 65:50.88S | 50:33.91E | 19 NOV 1985 | 1313 |
| 38 | 65:50.49S | 50:33.32E | 19 NOV 1985 | 1421 |
| 39 | 65:47.80S | 50:46.28E | 22 NOV 1985 | 0702 |
| 41 | 65:47.75S | 50:46.38E | 22 NOV 1985 | 0800 |
| 42 | 65:39.55S | 51:11.46E | 25 NOV 1985 | 0905 |
| 43 | 65:40.61S | 51:11.35E | 25 NOV 1985 | 1308 |
| 44 | 65:40.64S | 51:11.34E | 25 NOV 1985 | 1315 |
| 45 | 65:40.99S | 51:11.48E | 25 NOV 1985 | 1442 |
| 46 | 66:03.15S | 49:49.78E | 29 NOV 1985 | 1310 |
| 47 | 66:03.13S | 49:49.85E | 29 NOV 1985 | 1356 |
| 48 | 66:15.41S | 49:14.20E | 06 DEC 1985 | 0939 |
| 49 | 66:15.45S | 49:14.19E | 06 DEC 1985 | 1110 |
| 50 | 66:16.79S | 49:07.32E | 13 DEC 1985 | 1023 |

## 2. METHODS

### 2.1 INSTRUMENTATION AND SAMPLING PROCEDURES/COLLECTION OF DATA

Continuous vertical profiles of conductivity and temperature were obtained using a Neil Brown Mark III CTD (conductivity, temperature, depth probe #1103) system attached to a rosette water sampler (General Oceanics). Some problems were experienced with the salinity cell becoming blocked with ice following deployment. The effect is apparent on the near-surface data on casts 14, 27, 33, 38, 41, 42, 43, 44, 47, 48 and 50. Interpretation of these data should be undertaken with caution.

Procedures for the collection and processing of data are described in Kerry et al. (1987), utilising the techniques of Fofonoff and Millard (1983), Millard (1982) and Perkins and Lewis (1980).

Measurements were made on the downcast and water samples taken on the upcast. An attempt was made to lower the CTD as close as possible to 1 m/sec. Depending on the readings obtained on the downcast, depths were chosen for water sampling on the upcast. Between sampling the CTD was raised at variable speeds between 1 and 2 m/sec. At each water sampling station readings of conductivity and temperature were made. Samples were taken for later analysis of nitrate, nitrite and silicate (Humphries 1987). Hydrographic stations are listed in Table 1. The depth of each cast was usually to 2000 m or to near bottom over the continental shelf. Deep stations were not possible due to time constraints.

## 3. PRESENTATION OF RESULTS

The header information for all profile and data listings consists of cruise and station number, GMT date and time, position, CTD depth and bottom depth. The data listing for each station presents values for temperature, salinity and sigma-t at NODC standard depths and shallowest observed depth. A t/s profile for all stations is given in Figure 3, as well as individual stations. CTD profiles are presented in two sections, 0-600 m and 600 m - bottom.

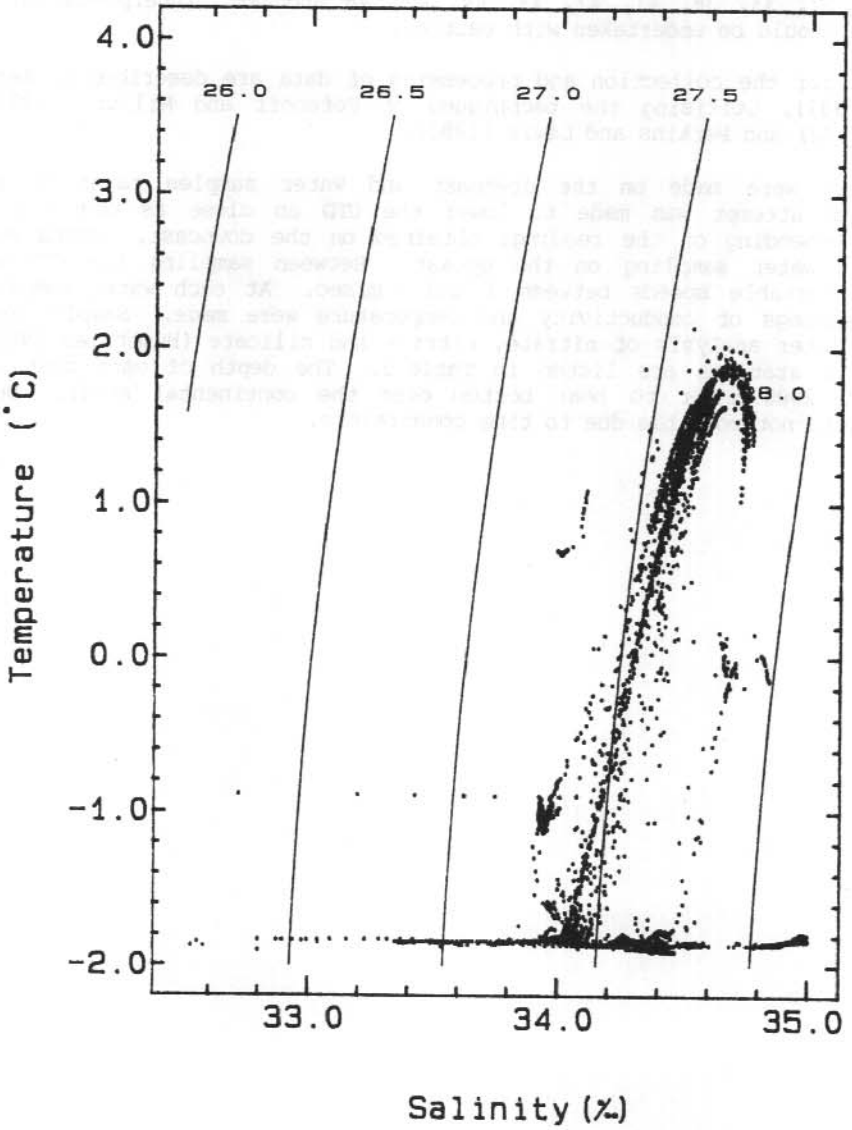
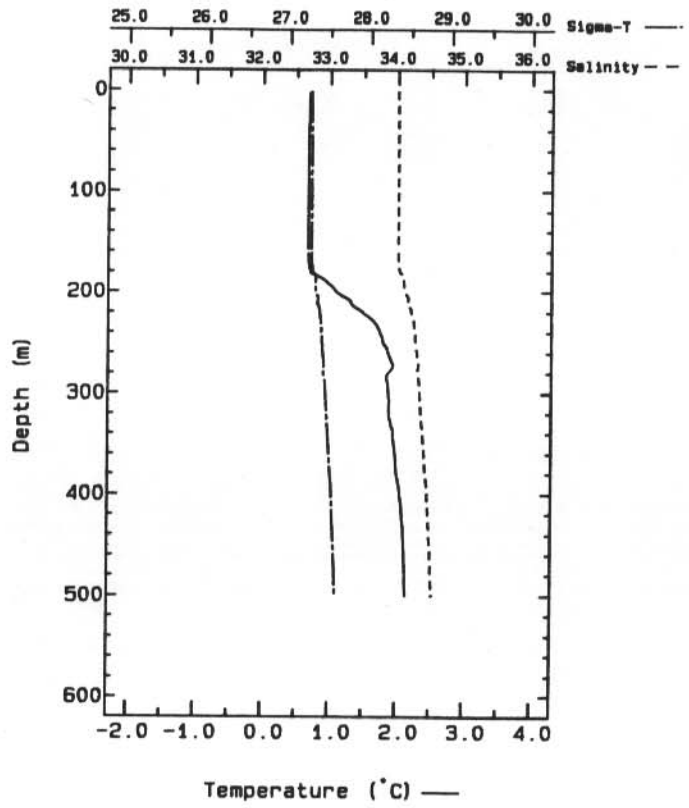



Figure 3. T/S data from all stations.

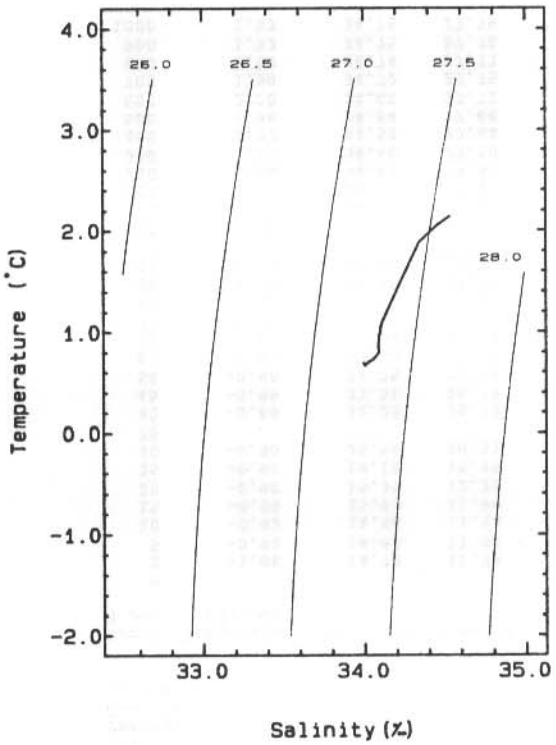
Cruise : ADBEX3
Station number : 1
Date : 6 OCT 1985
Start Time : 0417 GMT
Ship : NELLA DAN
Position : 55:10.07S 66:35.49E
Cast Depth (m) : 502
Bottom Depth (m) : Not Recorded

| Depth d bar | Temperature (deg C) | Salinity | Sigma-T |
|---|---|---|---|
| 0 | | | |
| 2 | 0.69 | 33.99 | 27.25 |
| 5 | 0.68 | 34.00 | 27.26 |
| 10 | 0.68 | 34.00 | 27.26 |
| 15 | 0.68 | 34.00 | 27.26 |
| 20 | 0.68 | 34.00 | 27.26 |
| 25 | 0.68 | 34.00 | 27.26 |
| 30 | 0.68 | 34.00 | 27.26 |
| 35 | 0.67 | 34.00 | 27.26 |
| 40 | 0.67 | 34.01 | 27.27 |
| 45 | 0.67 | 34.01 | 27.27 |
| 50 | 0.67 | 34.00 | 27.27 |
| 60 | 0.67 | 34.01 | 27.27 |
| 70 | 0.67 | 34.01 | 27.27 |
| 75 | 0.67 | 34.01 | 27.27 |
| 80 | 0.67 | 34.01 | 27.27 |
| 90 | 0.67 | 34.01 | 27.27 |
| 100 | 0.67 | 34.01 | 27.27 |
| 125 | 0.67 | 34.01 | 27.27 |
| 150 | 0.67 | 34.01 | 27.27 |
| 175 | 0.69 | 34.02 | 27.28 |
| 200 | 1.09 | 34.11 | 27.32 |
| 250 | 1.79 | 34.27 | 27.40 |
| 300 | 1.88 | 34.34 | 27.45 |
| 400 | 2.05 | 34.45 | 27.53 |
| 500 | 2.14 | 34.53 | 27.58 |

Cruise : ADBEX3 Station 1
06 OCT 1985 0417 GMT
Latitude 55: 10.07S
Longitude 66: 35.49E
Depth: CTD 502 m Bottom NR



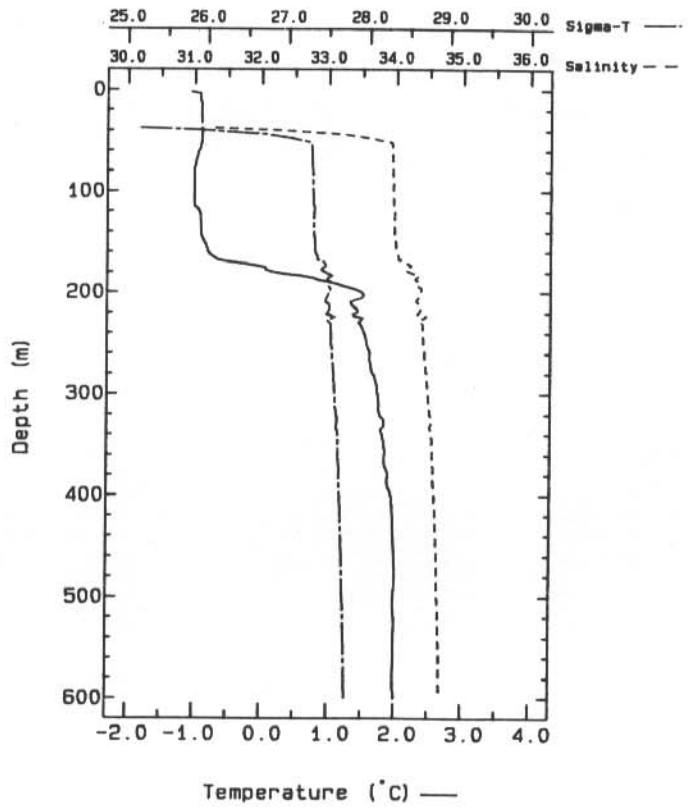
Cruise: ADBEX3 Station: 1
06 OCT 1985 0417 GMT
Latitude : 55: 10.07S
Longitude: 66: 35.49E
Depth: CTD 502 m Bottom NR



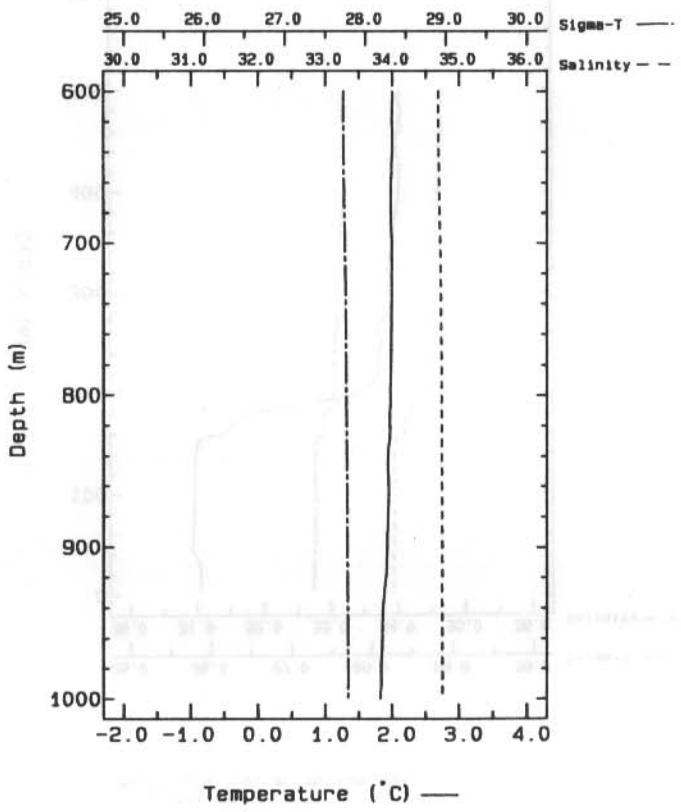
Cruise : ADBEX3
Station number : 2
Date : 8 OCT 1985
Start Time : 0022 GMT
Ship : NELLA DAN
Position : 59:17.35S 60:00.73E
Cast Depth (m) : 1002
Bottom Depth (m) : Not Recorded

| Depth d bar | Temperature (deg C) | Salinity | Sigma-T |
|---|---|---|---|
| 0 | | | |
| 2 | -1.06 | 14.72 | 11.73 |
| 5 | -0.92 | 14.86 | 11.86 |
| 10 | -0.92 | 14.96 | 11.94 |
| 15 | -0.90 | 15.02 | 11.99 |
| 20 | -0.90 | 15.35 | 12.25 |
| 25 | -0.90 | 19.18 | 15.35 |
| 30 | -0.90 | 25.56 | 20.51 |
| 35 | | | |
| 40 | -0.89 | 32.20 | 25.88 |
| 45 | -0.89 | 33.31 | 26.78 |
| 50 | -0.90 | 33.75 | 27.14 |
| 60 | -0.93 | 33.93 | 27.28 |
| 70 | -0.99 | 33.94 | 27.29 |
| 75 | -1.00 | 33.94 | 27.30 |
| 80 | -1.01 | 33.95 | 27.30 |
| 90 | -1.01 | 33.95 | 27.30 |
| 100 | -1.01 | 33.95 | 27.30 |
| 125 | -0.91 | 33.97 | 27.31 |
| 150 | -0.86 | 33.99 | 27.33 |
| 175 | -0.01 | 34.19 | 27.45 |
| 200 | 1.48 | 34.35 | 27.49 |
| 250 | 1.56 | 34.41 | 27.53 |
| 300 | 1.73 | 34.48 | 27.58 |
| 400 | 1.93 | 34.58 | 27.64 |
| 500 | 1.98 | 34.64 | 27.68 |
| 600 | 2.00 | 34.68 | 27.72 |
| 700 | 1.99 | 34.72 | 27.75 |
| 800 | 1.97 | 34.74 | 27.77 |
| 900 | 1.92 | 34.75 | 27.78 |
| 1000 | 1.82 | 34.75 | 27.79 |

Cruise : ADBEX3 Station 2
08 OCT 1985 0022 GMT
Latitude 59: 17.35S
Longitude 60: 00.73E
Depth: CTD 1002 m Bottom NR



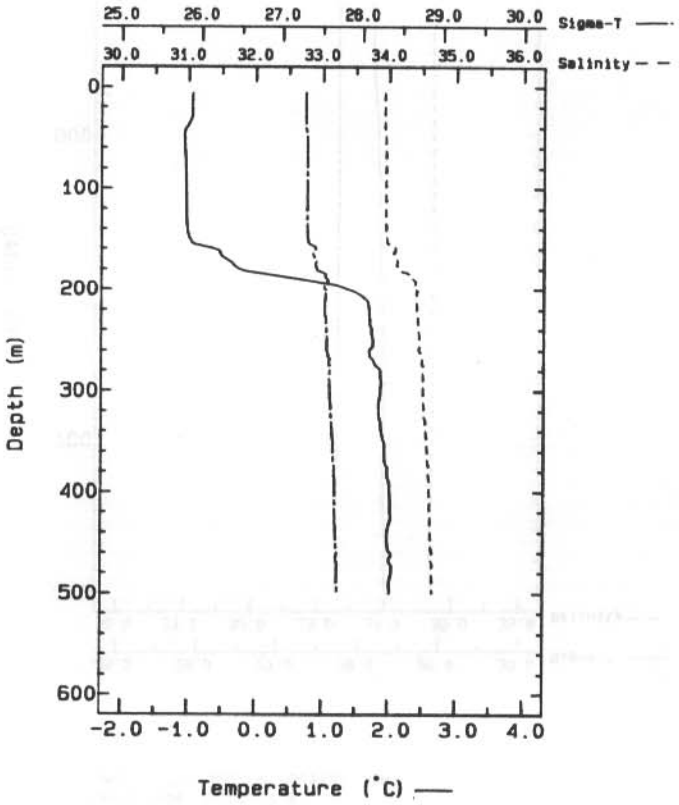
Cruise : ADBEX3 Station 2
08 OCT 1985 0022 GMT
Latitude 59: 17.35S
Longitude 60: 00.73E
Depth: CTD 1002 m Bottom NR



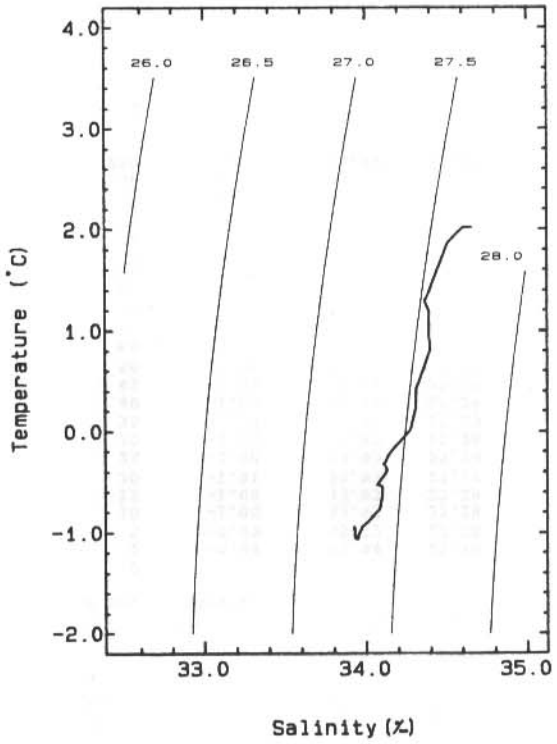
Cruise : ADBEX3
Station number : 3
Date : 8 OCT 1985
Start Time : 0121 GMT
Ship : NELLA DAN
Position : 59:19.15S 60:01.43E
Cast Depth (m) : 502
Bottom Depth (m) : Not Recorded

| Depth d bar | Temperature (deg C) | Salinity | Sigma-T |
|---|---|---|---|
| 0 | | | |
| 5 | | | |
| 6 | -0.94 | 33.93 | 27.28 |
| 10 | -0.95 | 33.93 | 27.28 |
| 15 | -0.95 | 33.93 | 27.28 |
| 20 | -0.95 | 33.93 | 27.28 |
| 25 | -0.95 | 33.93 | 27.28 |
| 30 | -0.95 | 33.93 | 27.28 |
| 35 | -0.98 | 33.93 | 27.29 |
| 40 | -1.02 | 33.93 | 27.28 |
| 45 | -1.06 | 33.94 | 27.30 |
| 50 | -1.07 | 33.95 | 27.30 |
| 60 | -1.06 | 33.95 | 27.30 |
| 70 | -1.05 | 33.95 | 27.31 |
| 75 | -1.04 | 33.95 | 27.30 |
| 80 | -1.04 | 33.95 | 27.31 |
| 90 | -1.04 | 33.95 | 27.30 |
| 100 | -1.04 | 33.95 | 27.30 |
| 125 | -1.03 | 33.95 | 27.30 |
| 150 | -0.98 | 33.97 | 27.31 |
| 175 | -0.34 | 34.12 | 27.41 |
| 200 | 1.37 | 34.39 | 27.53 |
| 250 | 1.76 | 34.45 | 27.55 |
| 300 | 1.87 | 34.51 | 27.59 |
| 400 | 2.02 | 34.61 | 27.66 |
| 500 | 2.02 | 34.65 | 27.69 |

Cruise : ADBEX3 Station 3
08 OCT 1985 0121 GMT
Latitude 59: 19.15S
Longitude 60: 01.43E
Depth: CTD 502 m Bottom NR



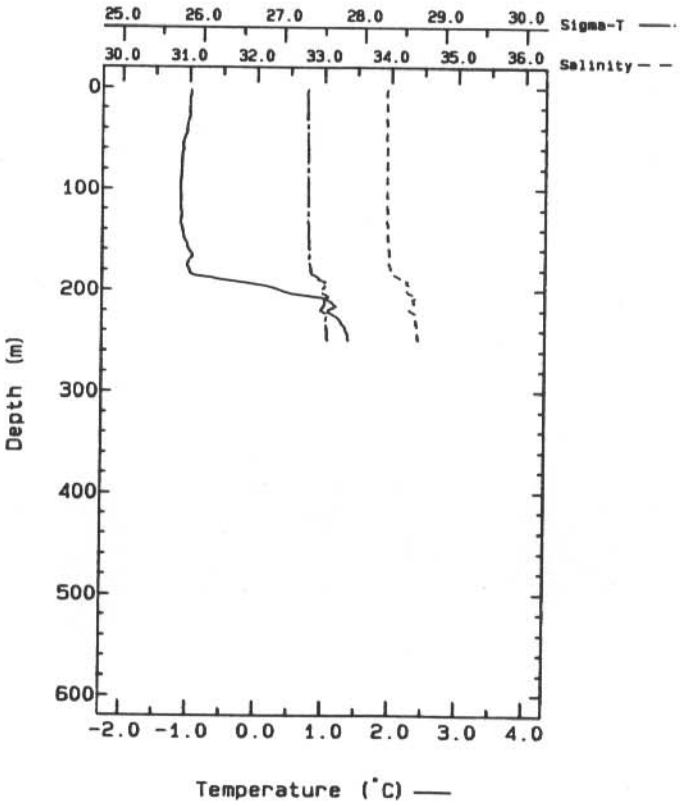
Cruise: ADBEX3 Station: 3
08 OCT 1985 0121 GMT
Latitude : 59: 19.15S
Longitude: 60: 01.43E
Depth: CTD 502 m Bottom NR



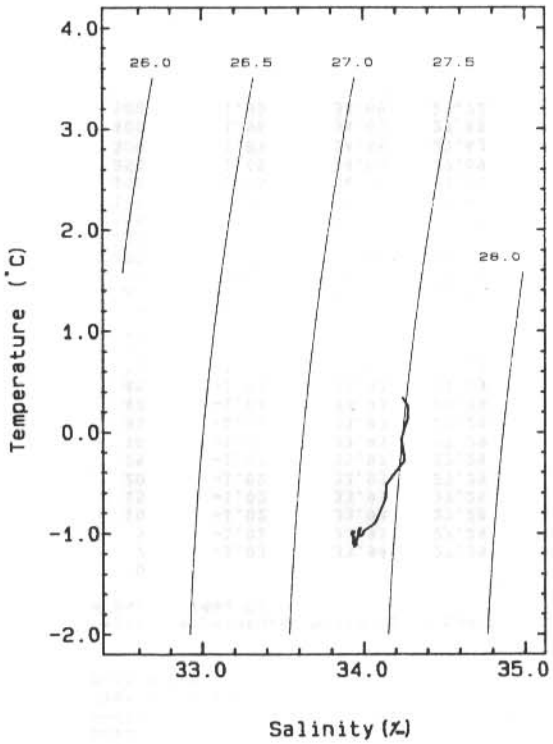
Cruise : ADBEX3
Station number : 4
Date : 8 OCT 1985
Start Time : 0525 GMT
Ship : NELLA DAN
Position : 59:19.29S 59:58.19E
Cast Depth (m) : 252
Bottom Depth (m) : Not Recorded

| Depth d bar | Temperature (deg C) | Salinity | Sigma-T |
|---|---|---|---|
| 0 | | | |
| 2 | -0.99 | 33.94 | 27.30 |
| 5 | -0.99 | 33.92 | 27.28 |
| 10 | -1.00 | 33.93 | 27.28 |
| 15 | -1.00 | 33.93 | 27.29 |
| 20 | -1.01 | 33.93 | 27.29 |
| 25 | -1.00 | 33.93 | 27.29 |
| 30 | -1.00 | 33.93 | 27.28 |
| 35 | -1.03 | 33.93 | 27.29 |
| 40 | -1.04 | 33.94 | 27.29 |
| 45 | -1.05 | 33.94 | 27.29 |
| 50 | -1.08 | 33.94 | 27.29 |
| 60 | -1.09 | 33.94 | 27.30 |
| 70 | -1.12 | 33.94 | 27.30 |
| 75 | -1.12 | 33.94 | 27.30 |
| 80 | -1.12 | 33.94 | 27.30 |
| 90 | -1.13 | 33.94 | 27.30 |
| 100 | -1.13 | 33.94 | 27.30 |
| 125 | -1.12 | 33.94 | 27.30 |
| 150 | -1.07 | 33.96 | 27.31 |
| 175 | -1.03 | 33.98 | 27.33 |
| 200 | 0.34 | 34.24 | 27.48 |
| 250 | 1.37 | 34.42 | 27.55 |

Cruise : ADBEX3 Station 4
08 OCT 1985 0525 GMT
Latitude 59: 19.29S
Longitude 59: 58.19E
Depth: CTD 252 m Bottom NR



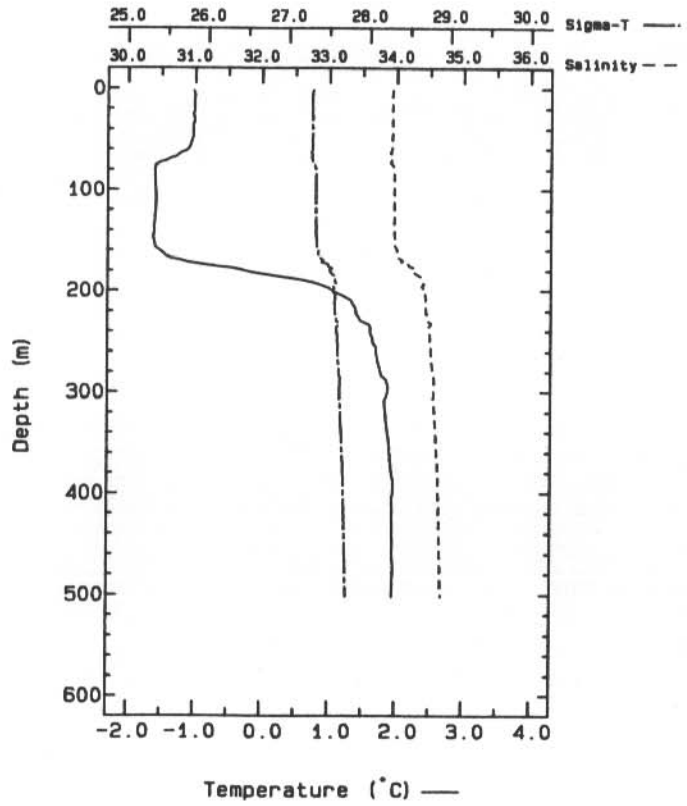
Cruise: ADBEX3 Station: 4
08 OCT 1985 0525 GMT
Latitude : 59: 19.29S
Longitude: 59: 58.19E
Depth: CTD 252 m Bottom NR



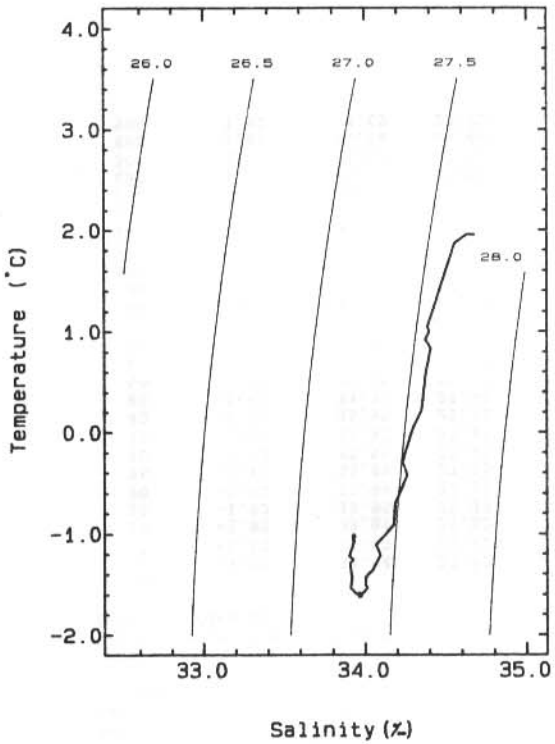
Cruise : ADBEX3
Station number : 5
Date : 8 OCT 1985
Start Time : 0644 GMT
Ship : NELLA DAN
Position : 59:27.79S 60:00.77E
Cast Depth (m) : 504
Bottom Depth (m) : Not Recorded

| Depth d bar | Temperature (deg C) | Salinity | Sigma-T |
|---|---|---|---|
| 0 | | | |
| 2 | -1.03 | 33.94 | 27.29 |
| 5 | -1.01 | 33.93 | 27.29 |
| 10 | -1.02 | 33.93 | 27.28 |
| 15 | -1.02 | 33.93 | 27.29 |
| 20 | -1.02 | 33.93 | 27.29 |
| 25 | -1.03 | 33.92 | 27.28 |
| 30 | -1.02 | 33.93 | 27.29 |
| 35 | -1.03 | 33.93 | 27.28 |
| 40 | -1.04 | 33.93 | 27.29 |
| 45 | -1.04 | 33.93 | 27.29 |
| 50 | -1.05 | 33.92 | 27.28 |
| 60 | -1.11 | 33.92 | 27.28 |
| 70 | -1.38 | 33.91 | 27.28 |
| 75 | -1.56 | 33.93 | 27.30 |
| 80 | -1.61 | 33.96 | 27.33 |
| 90 | -1.60 | 33.96 | 27.33 |
| 100 | -1.59 | 33.96 | 27.33 |
| 125 | -1.61 | 33.96 | 27.33 |
| 150 | -1.62 | 33.98 | 27.34 |
| 175 | -0.81 | 34.18 | 27.48 |
| 200 | 1.05 | 34.39 | 27.55 |
| 250 | 1.65 | 34.50 | 27.59 |
| 300 | 1.87 | 34.56 | 27.63 |
| 400 | 1.96 | 34.63 | 27.68 |
| 500 | 1.95 | 34.68 | 27.72 |

Cruise : ADBEX3 Station 5
08 OCT 1985 0644 GMT
Latitude 59:27.79S
Longitude 60:00.77E
Depth: CTD 504 m Bottom NR



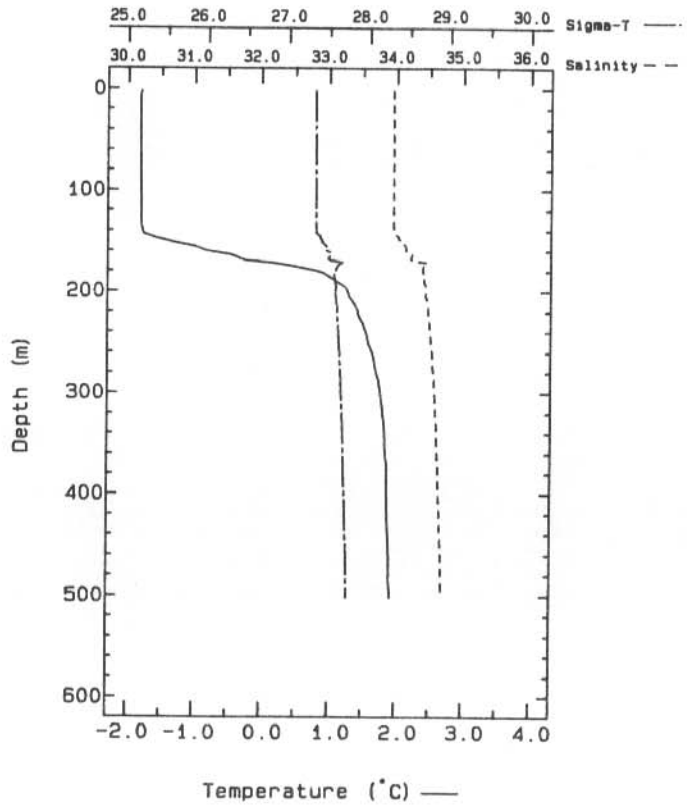
Cruise: ADBEX3 Station: 5
08 OCT 1985 0644 GMT
Latitude : 59: 27.79S
Longitude: 60: 00.77E
Depth: CTD 504 m Bottom NR



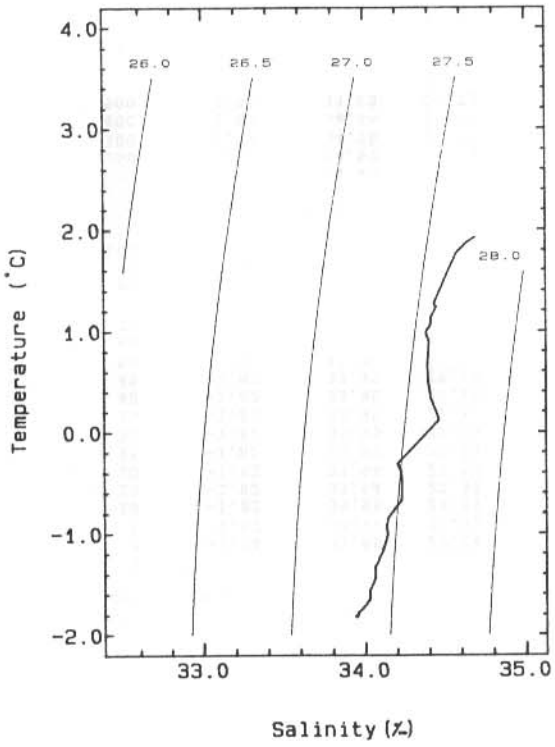
Cruise : ADBEX3
Station number : 6
Date : 8 OCT 1985
Start Time : 0746 GMT
Ship : NELLA DAN
Position : 59:31.54S 60:00.88E
Cast Depth (m) : 504
Bottom Depth (m) : Not Recorded

| Depth d bar | Temperature (deg C) | Salinity | Sigma-T |
|---|---|---|---|
| 0 | | | |
| 2 | -1.81 | 33.94 | 27.32 |
| 5 | -1.82 | 33.94 | 27.32 |
| 10 | -1.82 | 33.94 | 27.32 |
| 15 | -1.82 | 33.95 | 27.33 |
| 20 | -1.82 | 33.94 | 27.32 |
| 25 | -1.82 | 33.95 | 27.33 |
| 30 | -1.82 | 33.95 | 27.33 |
| 35 | -1.82 | 33.95 | 27.33 |
| 40 | -1.82 | 33.95 | 27.33 |
| 45 | -1.82 | 33.95 | 27.33 |
| 50 | -1.82 | 33.95 | 27.33 |
| 60 | -1.82 | 33.95 | 27.33 |
| 70 | -1.82 | 33.95 | 27.33 |
| 75 | -1.82 | 33.95 | 27.33 |
| 80 | -1.81 | 33.95 | 27.33 |
| 90 | -1.81 | 33.95 | 27.33 |
| 100 | -1.81 | 33.95 | 27.33 |
| 125 | -1.81 | 33.95 | 27.33 |
| 150 | -1.44 | 34.06 | 27.41 |
| 175 | 0.42 | 34.40 | 27.60 |
| 200 | 1.27 | 34.43 | 27.57 |
| 250 | 1.58 | 34.51 | 27.61 |
| 300 | 1.77 | 34.57 | 27.65 |
| 400 | 1.87 | 34.64 | 27.69 |
| 500 | 1.92 | 34.69 | 27.73 |

Cruise : ADBEX3 Station 6
08 OCT 1985 0746 GMT
Latitude 59:31.54S
Longitude 60:00.88E
Depth: CTD 504 m Bottom NR



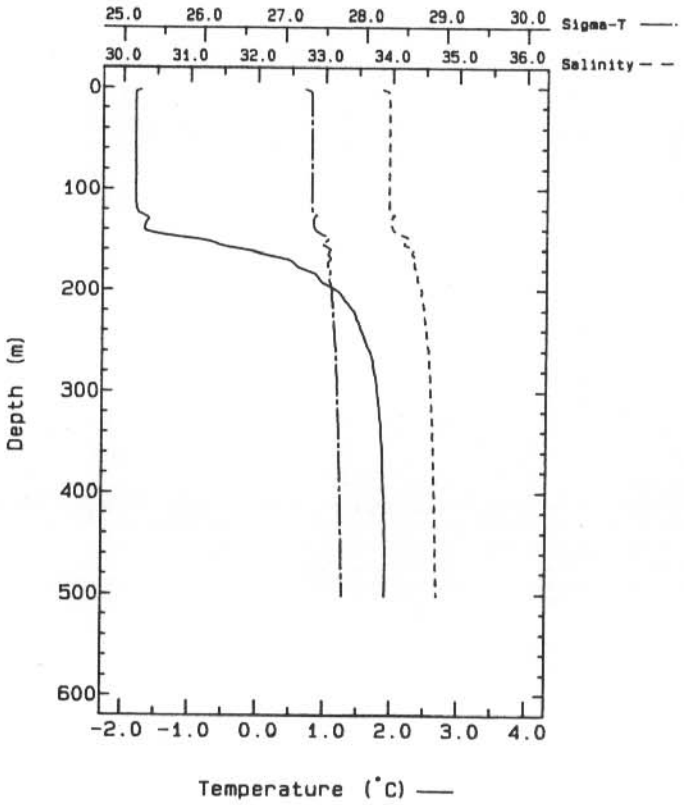
Cruise: ADBEX3 Station: 6
08 OCT 1985 0746 GMT
Latitude : 59: 31.54S
Longitude: 60: 00.88E
Depth: CTD 504 m Bottom NR



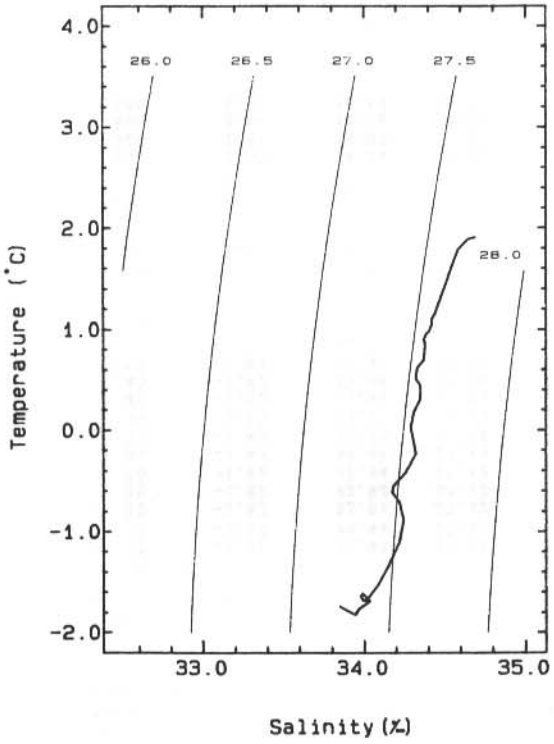
Cruise : ADBEX3
Station number : 7
Date : 8 OCT 1985
Start Time : 0830 GMT
Ship : NELLA DAN
Position : 59:33.16S 59:57.64E
Cast Depth (m) : 504
Bottom Depth (m) : Not Recorded

| Depth d bar | Temperature (deg C) | Salinity | Sigma-T |
|---|---|---|---|
| 0 | | | |
| 2 | -1.74 | 33.85 | 27.24 |
| 5 | -1.82 | 33.94 | 27.32 |
| 10 | -1.82 | 33.95 | 27.33 |
| 15 | -1.82 | 33.94 | 27.32 |
| 20 | -1.82 | 33.94 | 27.32 |
| 25 | -1.82 | 33.95 | 27.33 |
| 30 | -1.82 | 33.95 | 27.33 |
| 35 | -1.82 | 33.95 | 27.33 |
| 40 | -1.82 | 33.95 | 27.33 |
| 45 | -1.82 | 33.95 | 27.33 |
| 50 | -1.82 | 33.95 | 27.33 |
| 60 | -1.81 | 33.95 | 27.33 |
| 70 | -1.81 | 33.95 | 27.33 |
| 75 | -1.81 | 33.95 | 27.33 |
| 80 | -1.81 | 33.95 | 27.33 |
| 90 | -1.81 | 33.95 | 27.33 |
| 100 | -1.81 | 33.95 | 27.33 |
| 125 | -1.72 | 34.01 | 27.37 |
| 150 | -0.88 | 34.25 | 27.54 |
| 175 | 0.56 | 34.32 | 27.53 |
| 200 | 1.16 | 34.44 | 27.58 |
| 250 | 1.60 | 34.52 | 27.62 |
| 300 | 1.79 | 34.58 | 27.66 |
| 400 | 1.89 | 34.65 | 27.70 |
| 500 | 1.91 | 34.69 | 27.73 |

Cruise : ADBEX3 Station 7
08 OCT 1985 0830 GMT
Latitude 59: 33.16S
Longitude 59: 57.64E
Depth: CTD 504 m Bottom NR



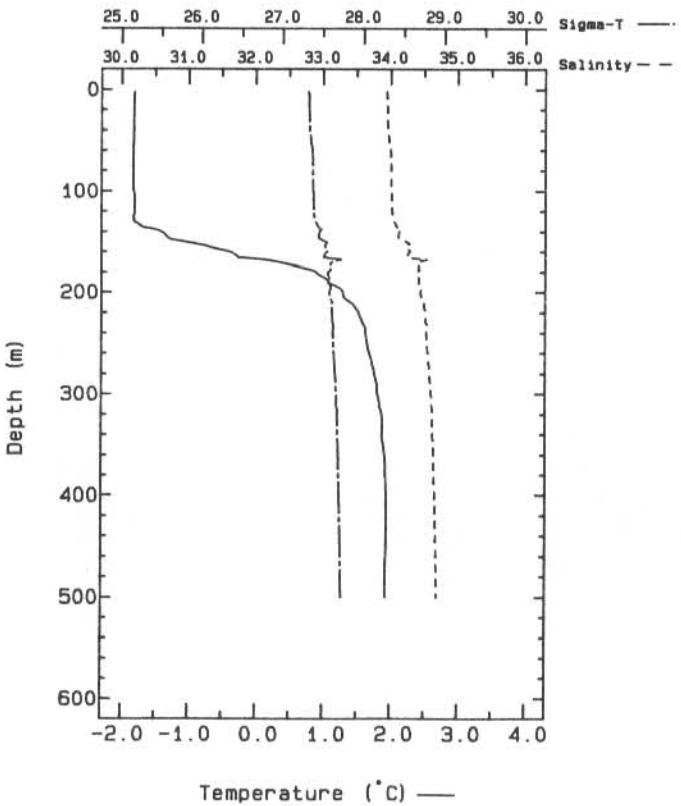
Cruise: ADBEX3 Station: 7
08 OCT 1985 0830 GMT
Latitude : 59: 33.16S
Longitude: 59: 57.64E
Depth: CTD 504 m Bottom NR



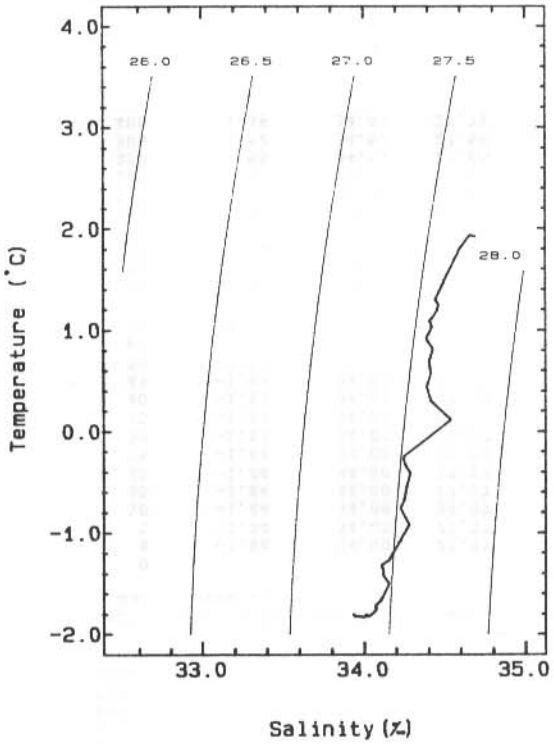
Cruise : ADBEX3
Station number : 8
Date : 8 OCT 1985
Start Time : 0914 GMT
Ship : NELLA DAN
Position : 59:34.88S 59:58.07E
Cast Depth (m) : 502
Bottom Depth (m) : Not Recorded

| Depth d bar | Temperature (deg C) | Salinity | Sigma-T |
|---|---|---|---|
| 0 | | | |
| 2 | -1.81 | 33.93 | 27.31 |
| 5 | -1.82 | 33.94 | 27.32 |
| 10 | -1.82 | 33.94 | 27.32 |
| 15 | -1.82 | 33.94 | 27.32 |
| 20 | -1.82 | 33.94 | 27.32 |
| 25 | -1.83 | 33.95 | 27.33 |
| 30 | -1.83 | 33.95 | 27.33 |
| 35 | -1.83 | 33.95 | 27.33 |
| 40 | -1.82 | 33.96 | 27.33 |
| 45 | -1.82 | 33.96 | 27.34 |
| 50 | -1.83 | 33.97 | 27.35 |
| 60 | -1.83 | 34.00 | 27.37 |
| 70 | -1.83 | 34.00 | 27.37 |
| 75 | -1.83 | 34.00 | 27.37 |
| 80 | -1.83 | 34.00 | 27.37 |
| 90 | -1.83 | 34.00 | 27.37 |
| 100 | -1.82 | 34.01 | 27.38 |
| 125 | -1.82 | 34.03 | 27.39 |
| 150 | -1.09 | 34.22 | 27.53 |
| 175 | 0.63 | 34.41 | 27.59 |
| 200 | 1.30 | 34.44 | 27.58 |
| 250 | 1.65 | 34.54 | 27.63 |
| 300 | 1.81 | 34.60 | 27.67 |
| 400 | 1.94 | 34.66 | 27.70 |
| 500 | 1.92 | 34.69 | 27.73 |

Cruise : ADBEX3 Station 8
08 OCT 1985 0914 GMT
Latitude 59: 34.88S
Longitude 59: 58.07E
Depth: CTD 502 m Bottom NR



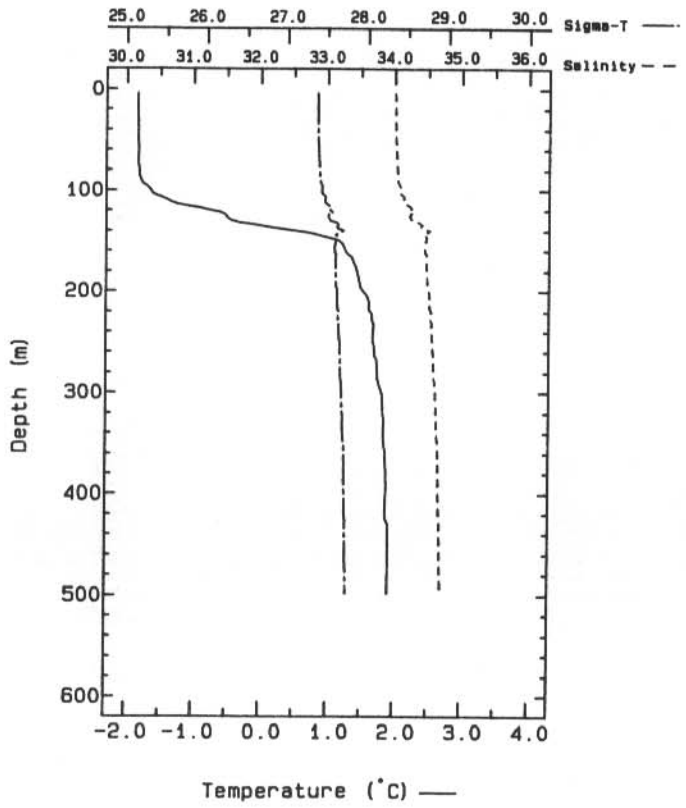
Cruise: ADBEX3 Station: 8
08 OCT 1985 0914 GMT
Latitude : 59: 34.88S
Longitude: 59: 58.07E
Depth: CTD 502 m Bottom NR



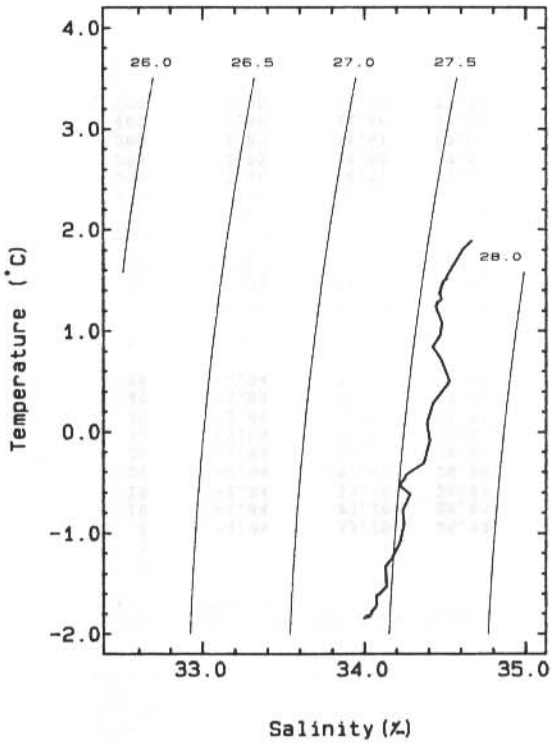
Cruise : ADBEX3
Station number : 9
Date : 8 OCT 1985
Start Time : 1019 GMT
Ship : NELLA DAN
Position : 59:39.61S 60:03.95E
Cast Depth (m) : 500
Bottom Depth (m) : Not Recorded

| Depth d bar | Temperature (deg C) | Salinity | Sigma-T |
|---|---|---|---|
| 0 | | | |
| 4 | -1.84 | 34.00 | 27.37 |
| 5 | -1.84 | 34.00 | 27.37 |
| 10 | -1.84 | 34.00 | 27.37 |
| 15 | -1.84 | 34.00 | 27.37 |
| 20 | -1.84 | 34.00 | 27.37 |
| 25 | -1.84 | 34.00 | 27.37 |
| 30 | -1.83 | 34.00 | 27.37 |
| 35 | -1.83 | 34.01 | 27.37 |
| 40 | -1.83 | 34.01 | 27.38 |
| 45 | -1.83 | 34.01 | 27.37 |
| 50 | -1.83 | 34.01 | 27.38 |
| 60 | -1.83 | 34.02 | 27.39 |
| 70 | -1.83 | 34.03 | 27.39 |
| 75 | -1.83 | 34.03 | 27.39 |
| 80 | -1.82 | 34.03 | 27.40 |
| 90 | -1.78 | 34.05 | 27.41 |
| 100 | -1.64 | 34.08 | 27.42 |
| 125 | -0.52 | 34.22 | 27.50 |
| 150 | 1.17 | 34.46 | 27.60 |
| 175 | 1.42 | 34.48 | 27.60 |
| 200 | 1.53 | 34.51 | 27.61 |
| 250 | 1.68 | 34.57 | 27.65 |
| 300 | 1.82 | 34.62 | 27.68 |
| 400 | 1.89 | 34.67 | 27.71 |

Cruise : ADBEX3 Station 9
08 OCT 1985 1019 GMT
Latitude 59: 39.61S
Longitude 60: 03.95E
Depth: CTD 500 m Bottom NR



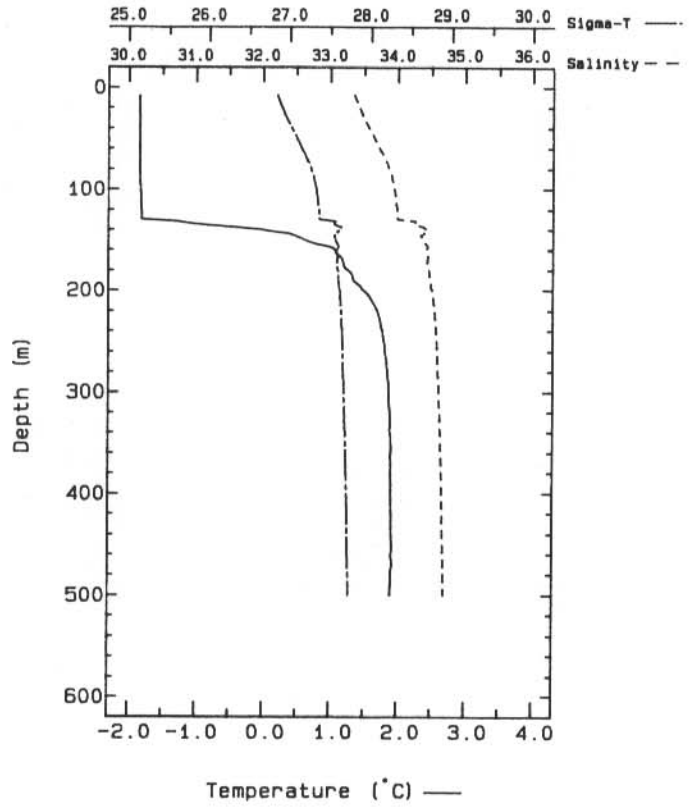
Cruise: ADBEX3 Station: 9
08 OCT 1985 1019 GMT
Latitude : 59: 39.61S
Longitude: 60: 03.95E
Depth: CTD 500 m Bottom NR



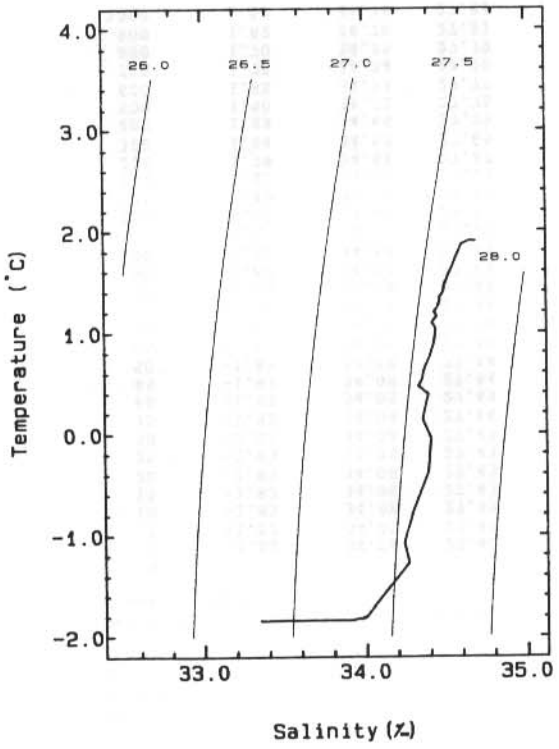
Cruise : ADBEX3
Station number : 10
Date : 8 OCT 1985
Start Time : 1339 GMT
Ship : NELLA DAN
Position : 59:57.66S 60:07.13E
Cast Depth (m) : 502
Bottom Depth (m) : Not Recorded

| Depth d bar | Temperature (deg C) | Salinity | Sigma-T |
|---|---|---|---|
| 0 | | | |
| 5 | | | |
| 8 | -1.84 | 33.35 | 26.84 |
| 10 | -1.84 | 33.36 | 26.85 |
| 15 | -1.84 | 33.39 | 26.87 |
| 20 | -1.84 | 33.42 | 26.90 |
| 25 | -1.84 | 33.45 | 26.93 |
| 30 | -1.84 | 33.49 | 26.95 |
| 35 | -1.84 | 33.53 | 26.98 |
| 40 | -1.84 | 33.56 | 27.01 |
| 45 | -1.84 | 33.61 | 27.05 |
| 50 | -1.84 | 33.65 | 27.08 |
| 60 | -1.84 | 33.72 | 27.14 |
| 70 | -1.84 | 33.79 | 27.20 |
| 75 | -1.84 | 33.84 | 27.24 |
| 80 | -1.84 | 33.86 | 27.26 |
| 90 | -1.84 | 33.91 | 27.30 |
| 100 | -1.83 | 33.94 | 27.32 |
| 125 | -1.81 | 33.99 | 27.36 |
| 150 | 0.60 | 34.37 | 27.56 |
| 175 | 1.20 | 34.43 | 27.58 |
| 200 | 1.48 | 34.51 | 27.61 |
| 250 | 1.79 | 34.58 | 27.65 |
| 300 | 1.87 | 34.61 | 27.67 |
| 400 | 1.90 | 34.66 | 27.70 |
| 500 | 1.90 | 34.69 | 27.73 |

Cruise : ADBEX3 Station 10
08 OCT 1985 1339 GMT
Latitude 59: 57.66S
Longitude 60: 07.13E
Depth: CTD 502 m Bottom NR



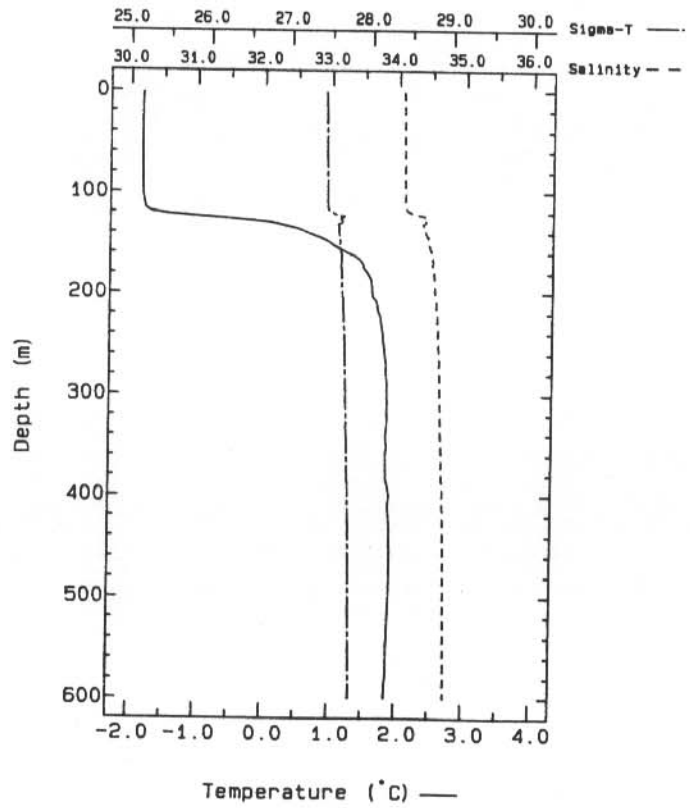
Cruise: ADBEX3 Station: 10
08 OCT 1985 1339 GMT
Latitude : 59:57.66S
Longitude: 60:07.13E
Depth: CTD 502 m Bottom NR



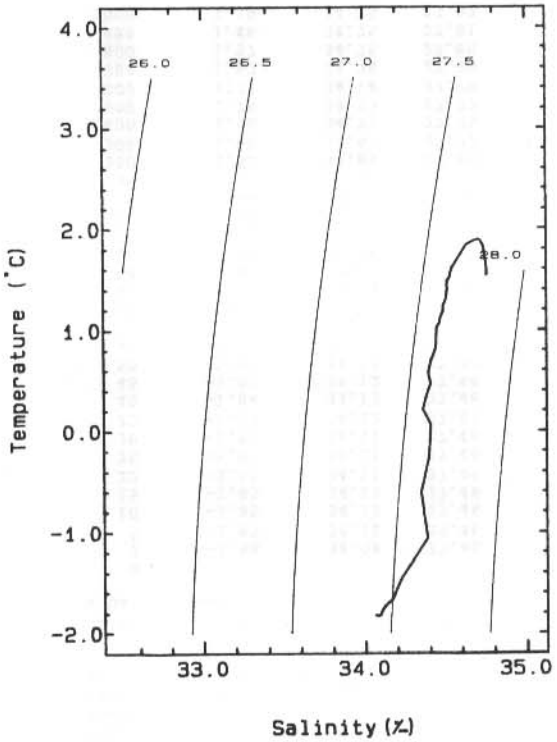
Cruise : ADBEX3
Station number : 11
Date : 9 OCT 1985
Start Time : 1045 GMT
Ship : NELLA DAN
Position : 61:15.87S 60:04.88E
Cast Depth (m) : 1002
Bottom Depth (m) : Not Recorded

| Depth d bar | Temperature (deg C) | Salinity | Sigma-T |
|---|---|---|---|
| 0 | | | |
| 2 | -1.82 | 34.06 | 27.42 |
| 5 | -1.83 | 34.07 | 27.43 |
| 10 | -1.83 | 34.08 | 27.43 |
| 15 | -1.83 | 34.08 | 27.43 |
| 20 | -1.83 | 34.08 | 27.43 |
| 25 | -1.83 | 34.08 | 27.43 |
| 30 | -1.83 | 34.08 | 27.43 |
| 35 | -1.83 | 34.08 | 27.44 |
| 40 | -1.83 | 34.08 | 27.43 |
| 45 | -1.83 | 34.08 | 27.44 |
| 50 | -1.83 | 34.08 | 27.44 |
| 60 | -1.83 | 34.09 | 27.44 |
| 70 | -1.83 | 34.09 | 27.44 |
| 75 | -1.83 | 34.09 | 27.44 |
| 80 | -1.82 | 34.09 | 27.44 |
| 90 | -1.82 | 34.09 | 27.44 |
| 100 | -1.81 | 34.10 | 27.45 |
| 125 | -0.83 | 34.37 | 27.63 |
| 150 | 0.99 | 34.45 | 27.60 |
| 175 | 1.49 | 34.51 | 27.62 |
| 200 | 1.62 | 34.55 | 27.64 |
| 250 | 1.79 | 34.61 | 27.67 |
| 300 | 1.84 | 34.63 | 27.69 |
| 400 | 1.89 | 34.69 | 27.73 |
| 500 | 1.90 | 34.71 | 27.75 |
| 600 | 1.85 | 34.73 | 27.77 |
| 700 | 1.78 | 34.74 | 27.78 |
| 800 | 1.70 | 34.75 | 27.79 |
| 900 | 1.62 | 34.76 | 27.81 |
| 1000 | 1.53 | 34.76 | 27.81 |

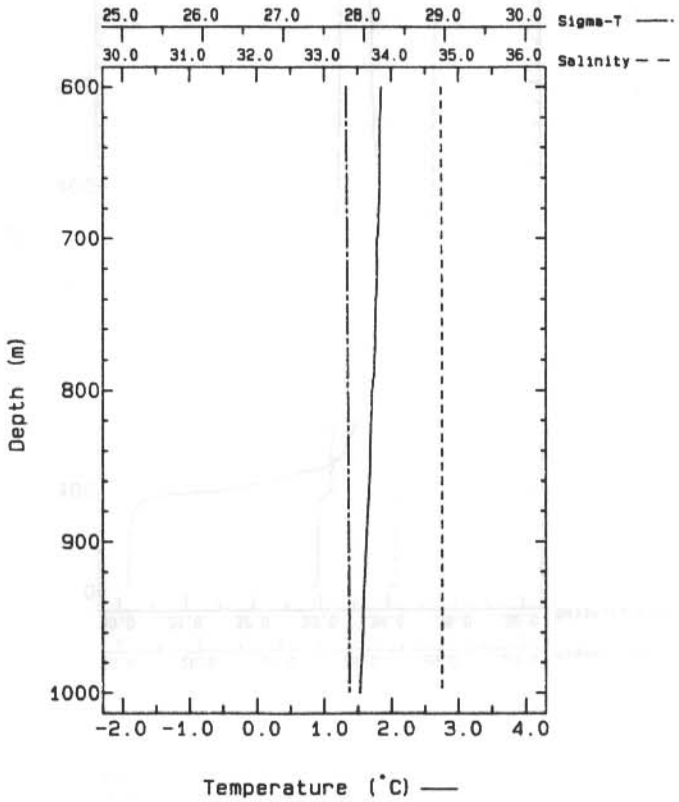
Cruise : ADBEX3 Station 11
09 OCT 1985 1045 GMT
Latitude 61: 15.87S
Longitude 60: 04.88E
Depth: CTD 1002 m Bottom NR



Cruise: ADBEX3 Station: 11
09 OCT 1985 1045 GMT
Latitude : 61: 15.87S
Longitude: 60: 04.88E
Depth: CTD 1002 m Bottom NR



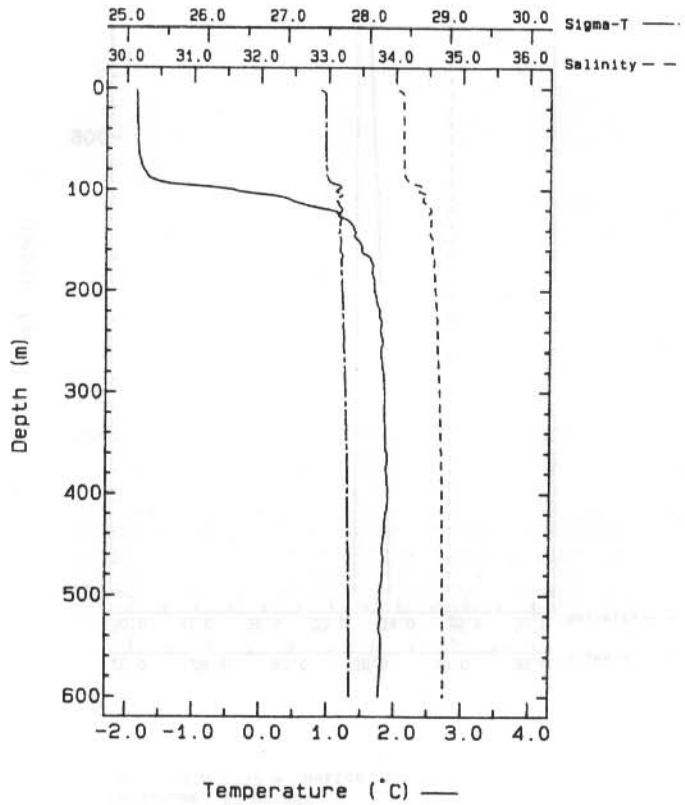

Cruise : ADBEX3 Station 11
09 OCT 1985 1045 GMT
Latitude 61: 15.87S
Longitude 60: 04.88E
Depth: CTD 1002 m Bottom NR



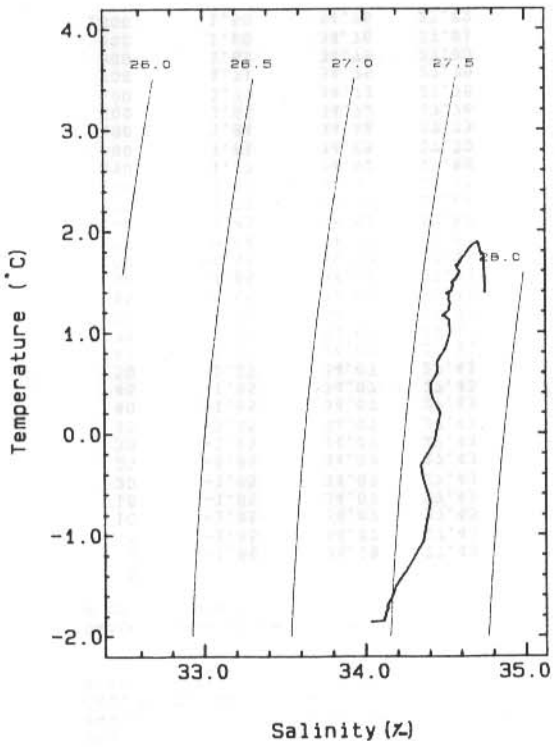
Cruise : ADBEX3
Station number : 12
Date : 10 OCT 1985
Start Time : 1239 GMT
Ship : NELLA DAN
Position : 62:27.14S 59:53.78E
Cast Depth (m) : 1002
Bottom Depth (m) : Not Recorded

| Depth d bar | Temperature (deg C) | Salinity | Sigma-T |
|---|---|---|---|
| 0 | | | |
| 2 | -1.86 | 34.04 | 27.40 |
| 5 | -1.85 | 34.11 | 27.46 |
| 10 | -1.85 | 34.11 | 27.46 |
| 15 | -1.85 | 34.11 | 27.46 |
| 20 | -1.85 | 34.11 | 27.46 |
| 25 | -1.85 | 34.11 | 27.46 |
| 30 | -1.85 | 34.11 | 27.46 |
| 35 | -1.84 | 34.12 | 27.47 |
| 40 | -1.84 | 34.12 | 27.46 |
| 45 | -1.83 | 34.12 | 27.46 |
| 50 | -1.83 | 34.12 | 27.46 |
| 60 | -1.82 | 34.12 | 27.46 |
| 70 | -1.80 | 34.13 | 27.47 |
| 75 | -1.78 | 34.13 | 27.47 |
| 80 | -1.75 | 34.14 | 27.48 |
| 90 | -1.60 | 34.17 | 27.50 |
| 100 | -0.45 | 34.36 | 27.61 |
| 125 | 1.16 | 34.49 | 27.62 |
| 150 | 1.44 | 34.55 | 27.65 |
| 175 | 1.66 | 34.58 | 27.66 |
| 200 | 1.69 | 34.60 | 27.67 |
| 250 | 1.82 | 34.64 | 27.69 |
| 300 | 1.85 | 34.67 | 27.72 |
| 400 | 1.90 | 34.71 | 27.75 |
| 500 | 1.79 | 34.73 | 27.77 |
| 600 | 1.77 | 34.74 | 27.78 |
| 700 | 1.67 | 34.75 | 27.79 |
| 800 | 1.57 | 34.75 | 27.80 |
| 900 | 1.46 | 34.75 | 27.81 |
| 1000 | 1.39 | 34.75 | 27.82 |

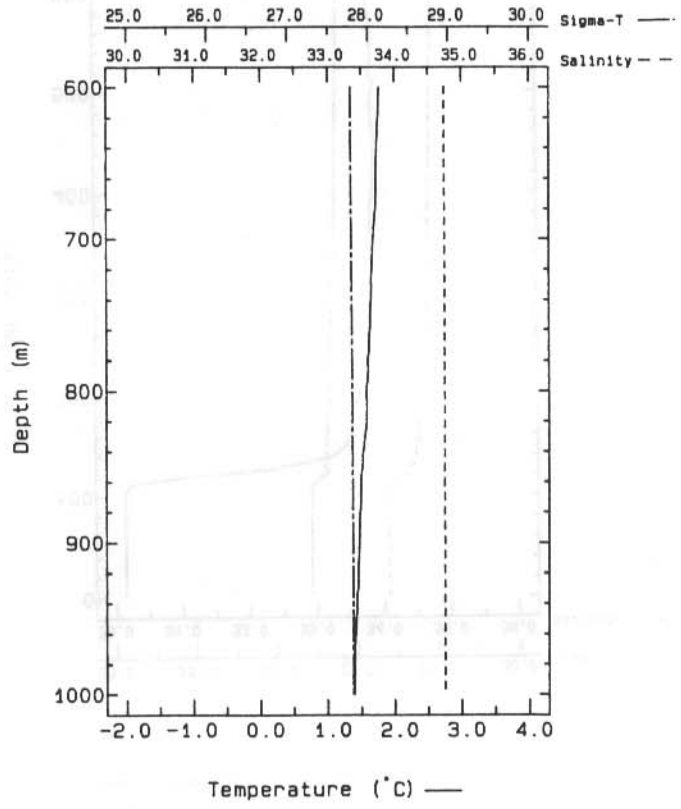
Cruise : ADBEX3 Station 12
10 OCT 1985 1239 GMT
Latitude 62: 27.14S
Longitude 59: 53.78E
Depth: CTD 1002 m Bottom NR



Cruise: ADBEX3 Station: 12
10 OCT 1985 1239 GMT
Latitude : 62: 27.14S
Longitude: 59: 53.78E
Depth: CTD 1002 m Bottom NR



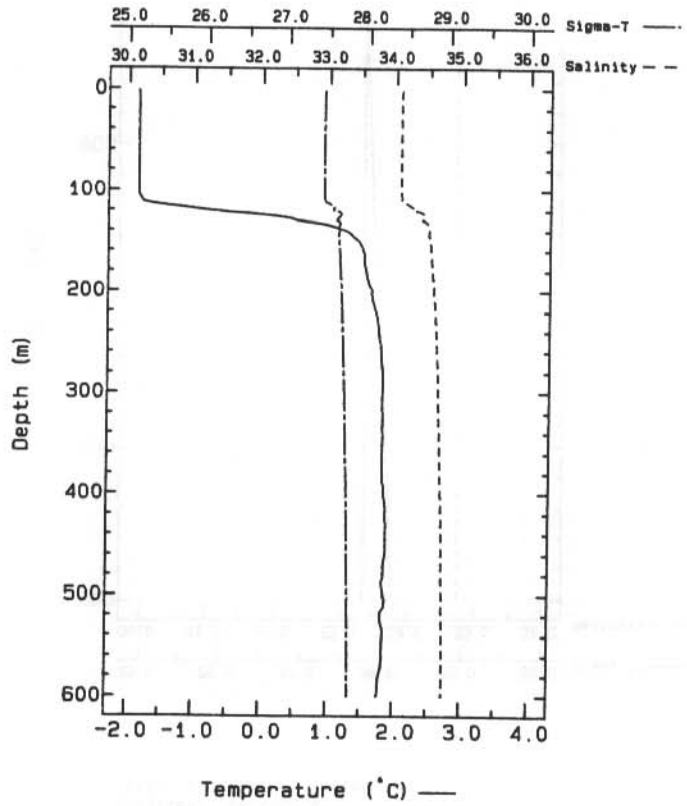

Cruise : ADBEX3 Station 12
10 OCT 1985 1239 GMT
Latitude 62: 27.14S
Longitude 59: 53.78E
Depth: CTD 1002 m Bottom NR



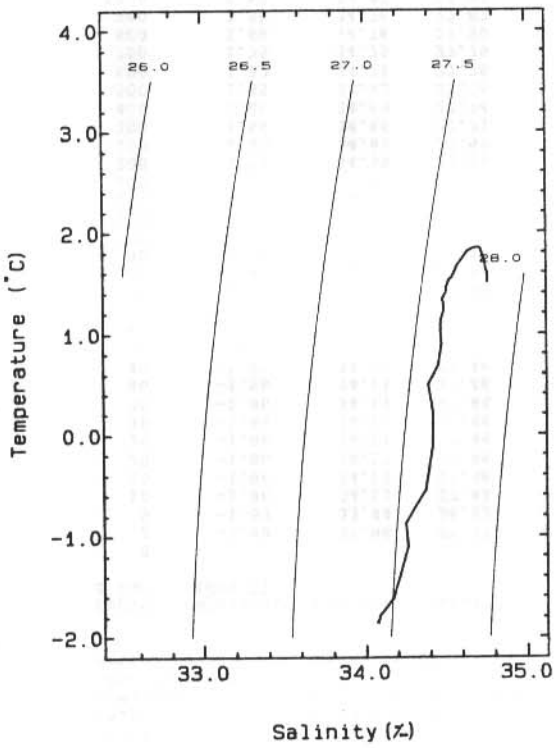
Cruise : ADBEX3
Station number : 13
Date : 12 OCT 1985
Start Time : 1455 GMT
Ship : NELLA DAN
Position : 62:33.36S 62:37.16E
Cast Depth (m) : 1002
Bottom Depth (m) : Not Recorded

| Depth d bar | Temperature (deg C) | Salinity | Sigma-T |
|---|---|---|---|
| 0 | | | |
| 2 | -1.86 | 34.08 | 27.43 |
| 5 | -1.85 | 34.07 | 27.43 |
| 10 | -1.85 | 34.07 | 27.43 |
| 15 | -1.85 | 34.07 | 27.43 |
| 20 | -1.85 | 34.07 | 27.43 |
| 25 | -1.85 | 34.07 | 27.43 |
| 30 | -1.85 | 34.07 | 27.43 |
| 35 | -1.85 | 34.07 | 27.43 |
| 40 | -1.85 | 34.07 | 27.43 |
| 45 | -1.85 | 34.07 | 27.43 |
| 50 | -1.85 | 34.07 | 27.43 |
| 60 | -1.85 | 34.07 | 27.43 |
| 70 | -1.85 | 34.07 | 27.43 |
| 75 | -1.85 | 34.07 | 27.43 |
| 80 | -1.85 | 34.07 | 27.43 |
| 90 | -1.85 | 34.07 | 27.43 |
| 100 | -1.85 | 34.07 | 27.43 |
| 125 | 0.04 | 34.42 | 27.64 |
| 150 | 1.43 | 34.51 | 27.62 |
| 175 | 1.54 | 34.54 | 27.64 |
| 200 | 1.65 | 34.57 | 27.65 |
| 250 | 1.77 | 34.62 | 27.68 |
| 300 | 1.81 | 34.65 | 27.70 |
| 400 | 1.84 | 34.68 | 27.73 |
| 500 | 1.85 | 34.72 | 27.76 |
| 600 | 1.77 | 34.73 | 27.78 |
| 700 | 1.71 | 34.75 | 27.79 |
| 800 | 1.63 | 34.75 | 27.80 |
| 900 | 1.60 | 34.76 | 27.81 |
| 1000 | 1.50 | 34.76 | 27.82 |

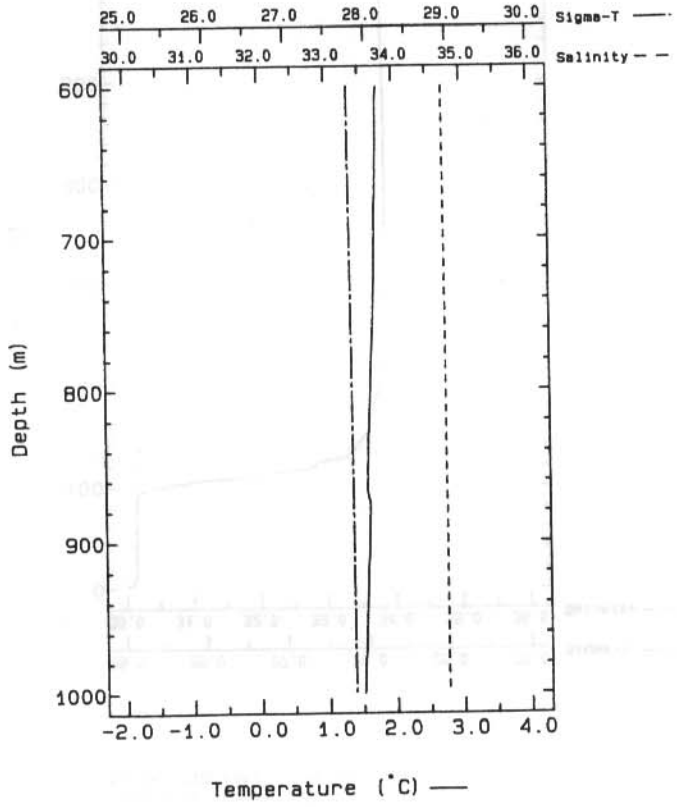
Cruise : ADBEX3 Station 13
12 OCT 1985 1455 GMT
Latitude 62:33.36S
Longitude 62:37.16E
Depth: CTD 1002 m Bottom NR



Cruise: ADBEX3 Station: 13
12 OCT 1985 1455 GMT
Latitude : 62: 33.36S
Longitude: 62: 37.16E
Depth: CTD 1002 m Bottom NR



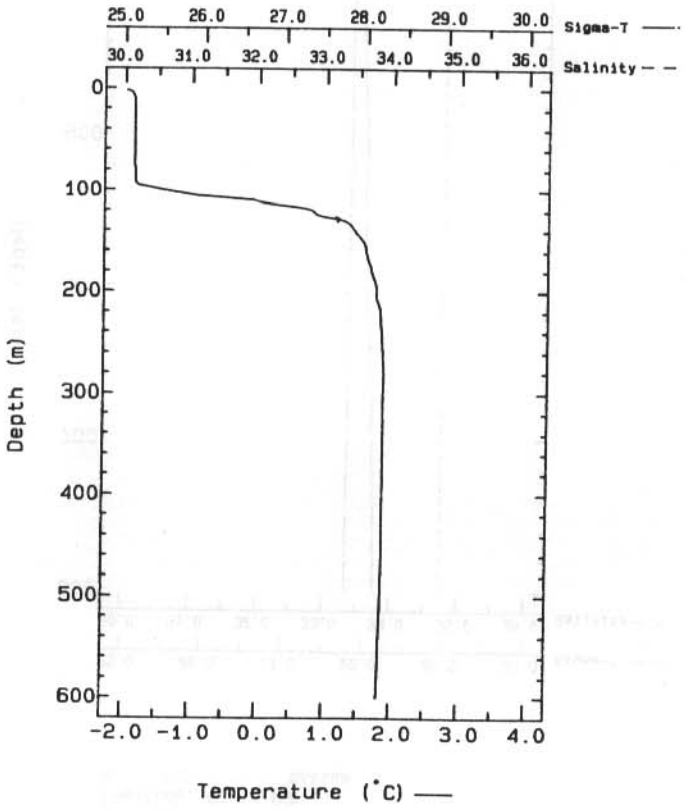

Cruise : ADBEX3 Station 13
12 OCT 1985 1455 GMT
Latitude 62: 33.36S
Longitude 62: 37.16E
Depth: CTD 1002 m Bottom NR



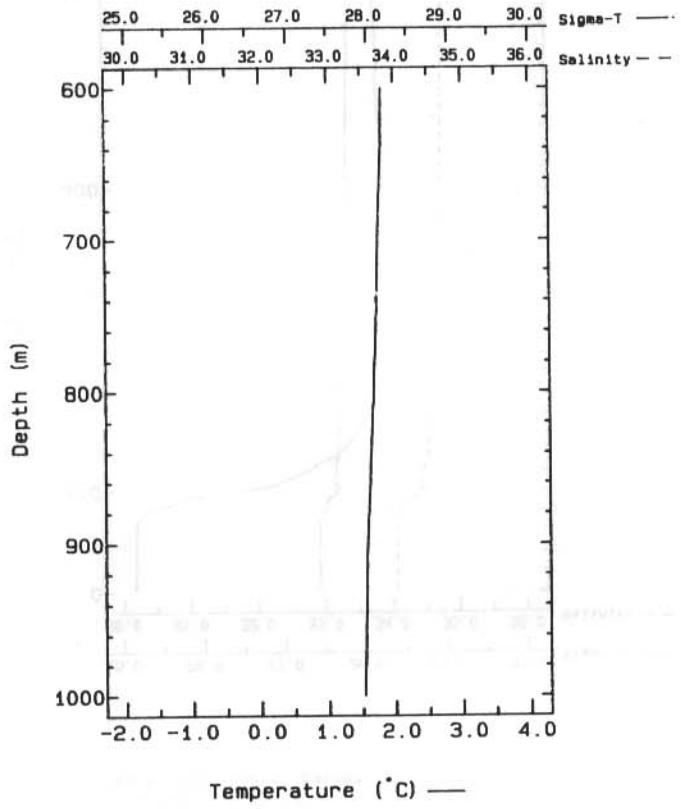
Cruise : ADBEX3
Station number : 14
Date : 13 OCT 1985
Start Time : 1443 GMT
Ship : NELLA DAN
Position : 62:56.05S 62:31.97E
Cast Depth (m) : 1002
Bottom Depth (m) : Not Recorded

| Depth d bar | Temperature (deg C) | Salinity | Sigma-T |
|---|---|---|---|
| 0 | | | |
| 2 | -1.98 | 31.96 | 25.71 |
| 5 | -1.89 | 33.44 | 26.92 |
| 10 | -1.86 | 34.11 | 27.46 |
| 15 | -1.86 | 34.11 | 27.46 |
| 20 | -1.86 | 34.11 | 27.46 |
| 25 | -1.86 | 34.11 | 27.46 |
| 30 | -1.86 | 34.11 | 27.46 |
| 35 | -1.86 | 34.11 | 27.46 |
| 40 | -1.86 | 34.11 | 27.46 |
| 45 | -1.86 | 34.11 | 27.46 |
| 50 | -1.86 | 34.11 | 27.46 |
| 60 | -1.86 | 34.11 | 27.46 |
| 70 | -1.86 | 34.11 | 27.46 |
| 75 | -1.86 | 34.11 | 27.46 |
| 80 | -1.85 | 34.11 | 27.46 |
| 90 | -1.84 | 34.11 | 27.46 |
| 100 | -1.47 | 34.19 | 27.51 |
| 125 | 0.92 | 34.47 | 27.62 |
| 150 | 1.55 | 34.54 | 27.64 |
| 175 | 1.67 | 34.57 | 27.65 |
| 200 | 1.76 | 34.59 | 27.66 |
| 250 | 1.85 | 34.63 | 27.69 |
| 300 | 1.86 | 34.66 | 27.71 |
| 400 | 1.86 | 34.69 | 27.74 |
| 500 | 1.85 | 34.72 | 27.76 |
| 600 | 1.82 | 34.74 | 27.78 |
| 700 | 1.75 | 34.75 | 27.79 |
| 800 | 1.68 | 34.76 | 27.80 |
| 900 | 1.58 | 34.76 | 27.82 |
| 1000 | 1.52 | 34.77 | 27.82 |

Cruise : ADBEX3 Station 14
13 OCT 1985 1443 GMT
Latitude 62: 56.05S
Longitude 62: 31.97E
Depth: CTD 1002 m Bottom NR



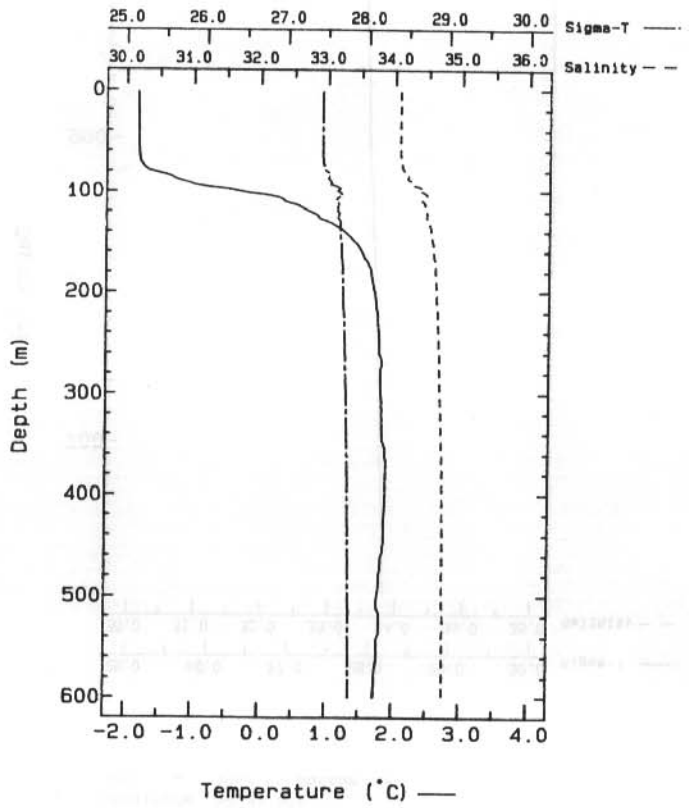
Cruise : ADBEX3 Station 14
13 OCT 1985 1443 GMT
Latitude 62: 56.05S
Longitude 62: 31.97E
Depth: CTD 1002 m Bottom NR



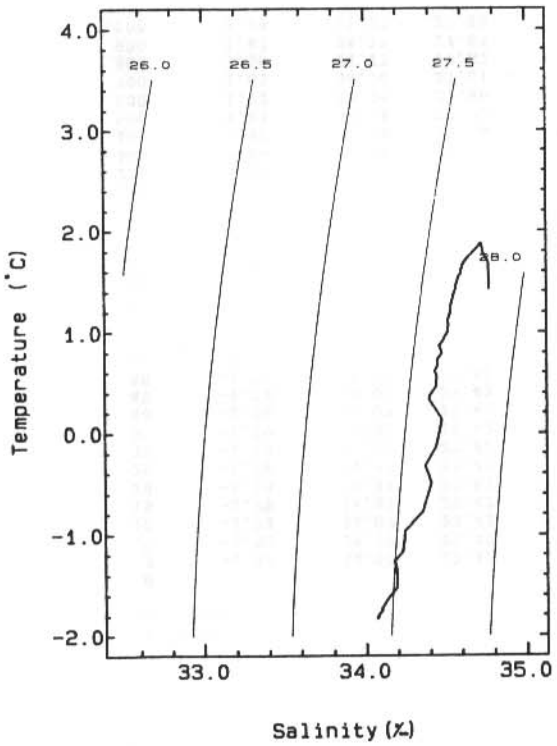
Cruise : ADBEX3
Station number : 15
Date : 14 OCT 1985
Start Time : 1117 GMT
Ship : NELLA DAN
Position : 63:04.03S 62:59.04E
Cast Depth (m) : 1002
Bottom Depth (m) : Not Recorded

| Depth d bar | Temperature (deg C) | Salinity | Sigma-T |
|---|---|---|---|
| 0 | | | |
| 2 | -1.83 | 34.07 | 27.42 |
| 5 | -1.83 | 34.07 | 27.43 |
| 10 | -1.83 | 34.07 | 27.43 |
| 15 | -1.83 | 34.07 | 27.42 |
| 20 | -1.82 | 34.07 | 27.42 |
| 25 | -1.82 | 34.07 | 27.42 |
| 30 | -1.82 | 34.07 | 27.42 |
| 35 | -1.82 | 34.07 | 27.42 |
| 40 | -1.82 | 34.07 | 27.42 |
| 45 | -1.82 | 34.07 | 27.42 |
| 50 | -1.82 | 34.07 | 27.42 |
| 60 | -1.81 | 34.07 | 27.43 |
| 70 | -1.79 | 34.08 | 27.43 |
| 75 | -1.74 | 34.10 | 27.45 |
| 80 | -1.65 | 34.13 | 27.47 |
| 90 | -1.18 | 34.23 | 27.53 |
| 100 | -0.32 | 34.37 | 27.61 |
| 125 | 0.86 | 34.46 | 27.62 |
| 150 | 1.40 | 34.56 | 27.67 |
| 175 | 1.63 | 34.61 | 27.68 |
| 200 | 1.71 | 34.63 | 27.70 |
| 250 | 1.78 | 34.66 | 27.72 |
| 300 | 1.80 | 34.69 | 27.73 |
| 400 | 1.88 | 34.73 | 27.76 |
| 500 | 1.77 | 34.74 | 27.78 |
| 600 | 1.72 | 34.76 | 27.80 |
| 700 | 1.70 | 34.77 | 27.81 |
| 800 | 1.57 | 34.77 | 27.82 |
| 900 | 1.49 | 34.77 | 27.83 |
| 1000 | 1.42 | 34.77 | 27.83 |

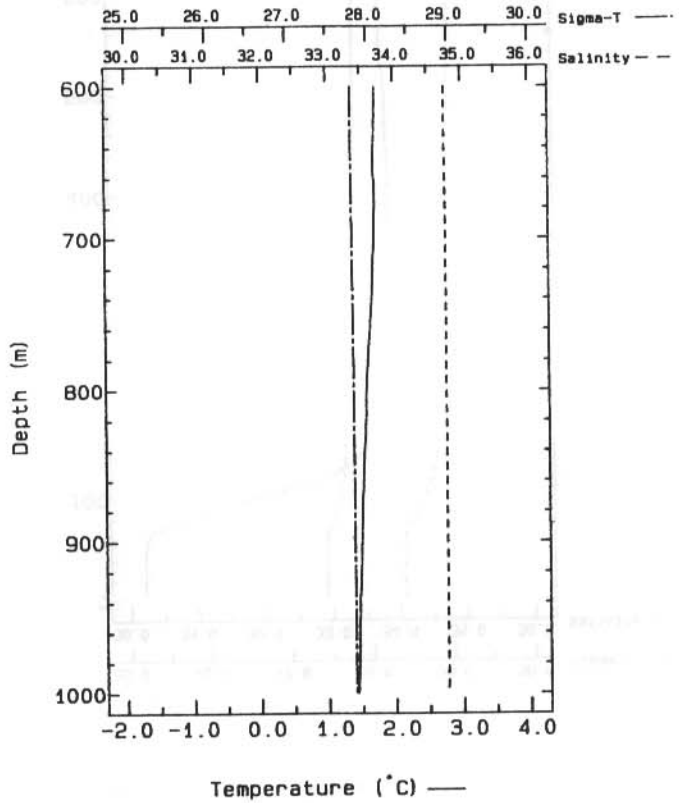
Cruise : ADBEX3 Station 15
14 OCT 1985 1117 GMT
Latitude 63: 04.03S
Longitude 62: 59.04E
Depth: CTD 1002 m Bottom NR



Cruise: ADBEX3 Station: 15
14 OCT 1985 1117 GMT
Latitude : 63: 04.03S
Longitude: 62: 59.04E
Depth: CTD 1002 m Bottom NR



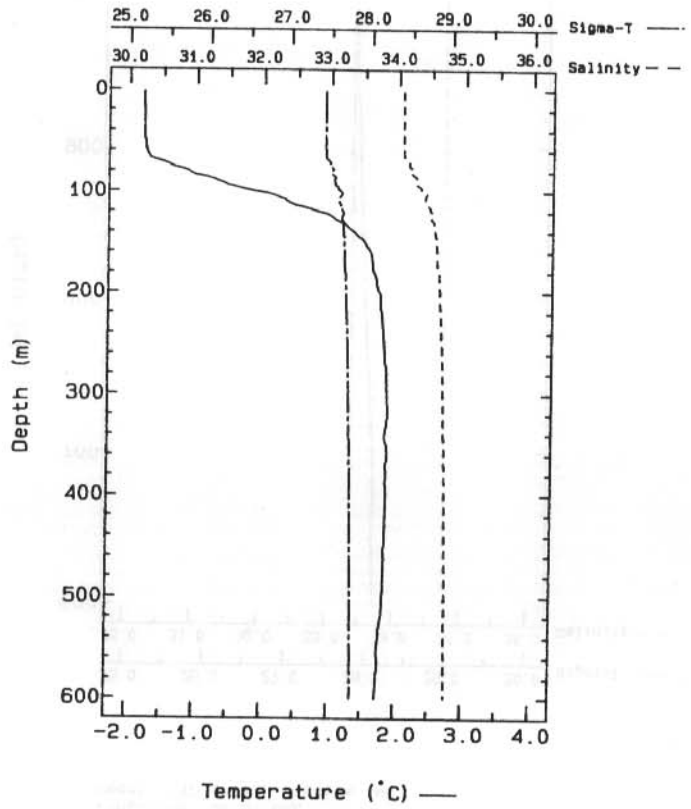

Cruise : ADBEX3 Station 15
14 OCT 1985 1117 GMT
Latitude 63: 04.03S
Longitude 62: 59.04E
Depth: CTD 1002 m Bottom NR



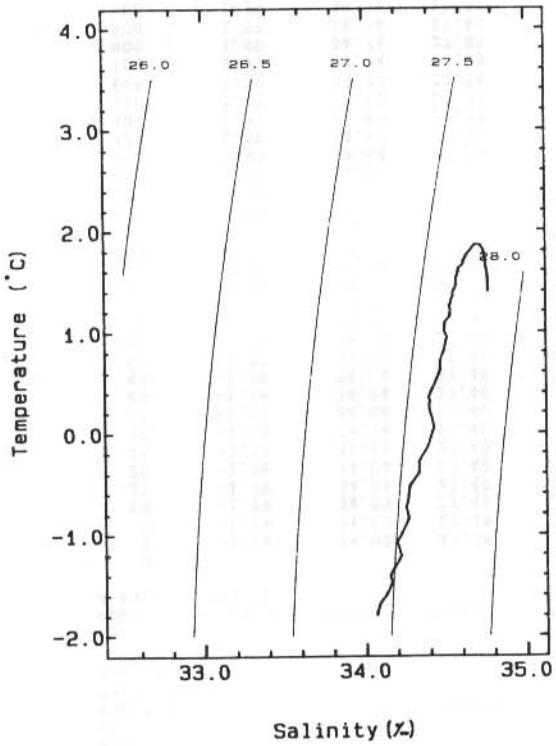
Cruise : ADBEX3
Station number : 16
Date : 15 OCT 1985
Start Time : 1034 GMT
Ship : NELLA DAN
Position : 63:25.51S 62:51.08E
Cast Depth (m) : 1002
Bottom Depth (m) : Not Recorded

| Depth d bar | Temperature (deg C) | Salinity | Sigma-T |
|---|---|---|---|
| 0 | | | |
| 2 | -1.80 | 34.07 | 27.42 |
| 5 | -1.80 | 34.07 | 27.42 |
| 10 | -1.79 | 34.07 | 27.42 |
| 15 | -1.79 | 34.07 | 27.42 |
| 20 | -1.78 | 34.07 | 27.42 |
| 25 | -1.78 | 34.07 | 27.42 |
| 30 | -1.78 | 34.07 | 27.42 |
| 35 | -1.79 | 34.07 | 27.42 |
| 40 | -1.78 | 34.07 | 27.42 |
| 45 | -1.78 | 34.07 | 27.42 |
| 50 | -1.77 | 34.07 | 27.42 |
| 60 | -1.75 | 34.08 | 27.43 |
| 70 | -1.60 | 34.13 | 27.47 |
| 75 | -1.38 | 34.16 | 27.49 |
| 80 | -1.12 | 34.20 | 27.51 |
| 90 | -0.67 | 34.26 | 27.54 |
| 100 | -0.14 | 34.39 | 27.62 |
| 125 | 1.03 | 34.50 | 27.64 |
| 150 | 1.51 | 34.57 | 27.67 |
| 175 | 1.63 | 34.59 | 27.67 |
| 200 | 1.74 | 34.63 | 27.70 |
| 250 | 1.81 | 34.67 | 27.72 |
| 300 | 1.86 | 34.69 | 27.74 |
| 400 | 1.85 | 34.72 | 27.76 |
| 500 | 1.81 | 34.74 | 27.78 |
| 600 | 1.72 | 34.75 | 27.80 |
| 700 | 1.63 | 34.76 | 27.81 |
| 800 | 1.56 | 34.77 | 27.82 |
| 900 | 1.47 | 34.77 | 27.83 |
| 1000 | 1.39 | 34.77 | 27.83 |

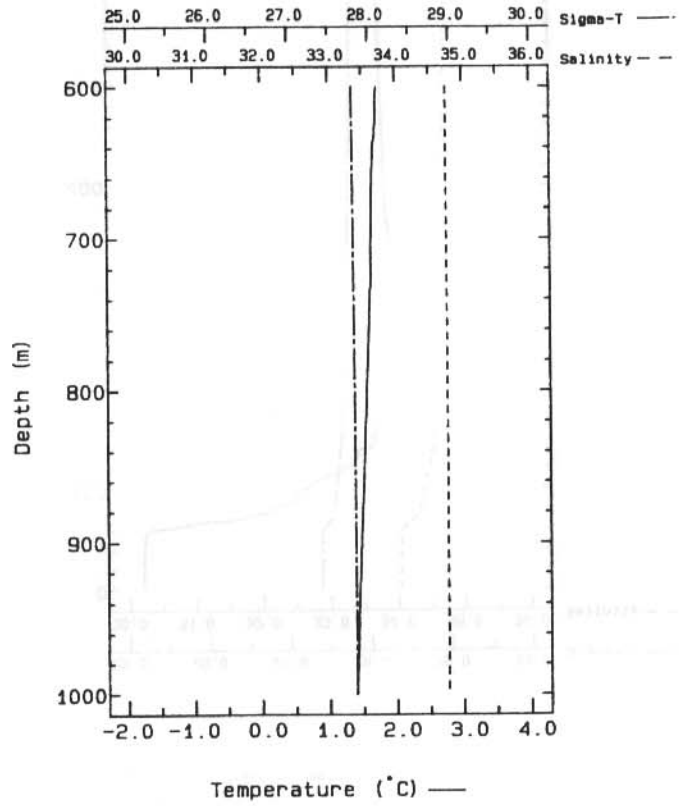
Cruise : ADBEX3 Station 16
15 OCT 1985 1034 GMT
Latitude 63: 25.51S
Longitude 62: 51.08E
Depth: CTD 1002 m Bottom NR



Cruise: ADBEX3 Station: 16
15 OCT 1985 1034 GMT
Latitude : 63: 25.51S
Longitude: 62: 51.08E
Depth: CTD 1002 m Bottom NR



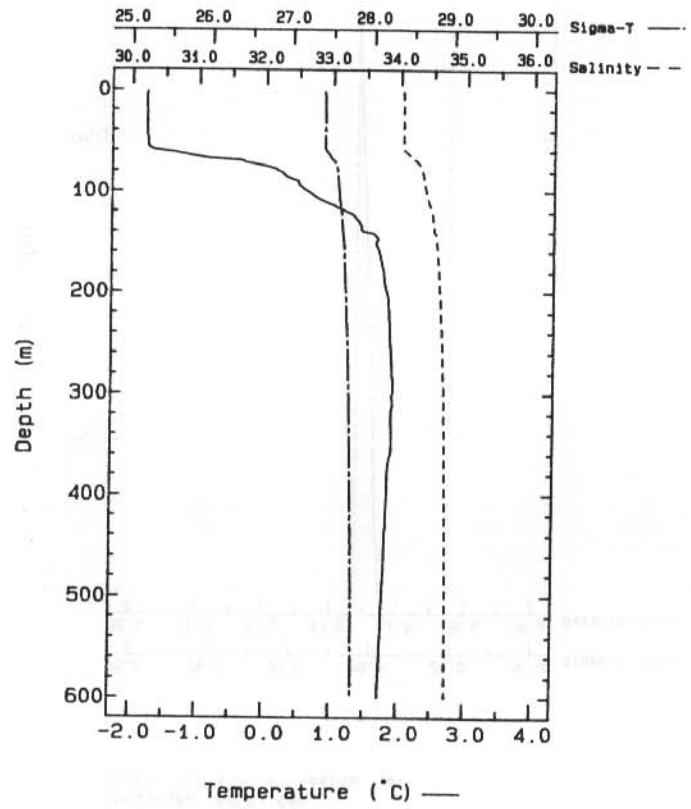

Cruise : ADBEX3 Station 16
15 OCT 1985 1034 GMT
Latitude 63: 25.51S
Longitude 62: 51.08E
Depth: CTD 1002 m Bottom NR



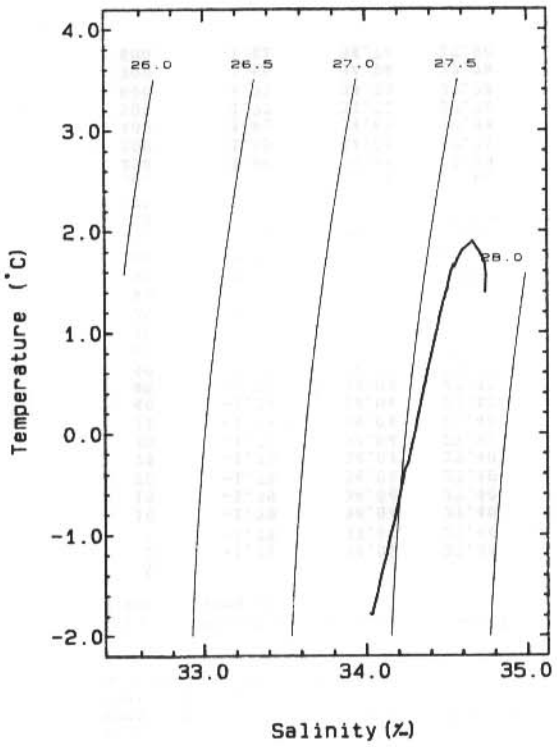
Cruise : ADBEX3
Station number : 17
Date : 16 OCT 1985
Start Time : 0509 GMT
Ship : NELLA DAN
Position : 63:22.69S 63:02.53E
Cast Depth (m) : 1002
Bottom Depth (m) : Not Recorded

| Depth d bar | Temperature (deg C) | Salinity | Sigma-T |
|---|---|---|---|
| 0 | | | |
| 2 | -1.78 | 34.02 | 27.39 |
| 5 | -1.79 | 34.03 | 27.39 |
| 10 | -1.79 | 34.03 | 27.40 |
| 15 | -1.79 | 34.03 | 27.40 |
| 20 | -1.78 | 34.04 | 27.40 |
| 25 | -1.78 | 34.04 | 27.40 |
| 30 | -1.78 | 34.04 | 27.40 |
| 35 | -1.78 | 34.04 | 27.40 |
| 40 | -1.78 | 34.04 | 27.40 |
| 45 | -1.78 | 34.04 | 27.40 |
| 50 | -1.77 | 34.04 | 27.40 |
| 60 | -1.66 | 34.06 | 27.41 |
| 70 | -0.36 | 34.24 | 27.51 |
| 75 | -0.04 | 34.30 | 27.54 |
| 80 | 0.20 | 34.33 | 27.55 |
| 90 | 0.49 | 34.36 | 27.57 |
| 100 | 0.63 | 34.38 | 27.57 |
| 125 | 1.33 | 34.49 | 27.61 |
| 150 | 1.64 | 34.55 | 27.64 |
| 175 | 1.75 | 34.58 | 27.65 |
| 200 | 1.81 | 34.60 | 27.67 |
| 250 | 1.87 | 34.64 | 27.69 |
| 300 | 1.90 | 34.67 | 27.71 |
| 400 | 1.83 | 34.69 | 27.74 |
| 500 | 1.77 | 34.72 | 27.76 |
| 600 | 1.72 | 34.73 | 27.78 |
| 700 | 1.67 | 34.74 | 27.79 |
| 800 | 1.60 | 34.74 | 27.80 |
| 900 | 1.53 | 34.74 | 27.80 |
| 1000 | 1.39 | 34.74 | 27.81 |

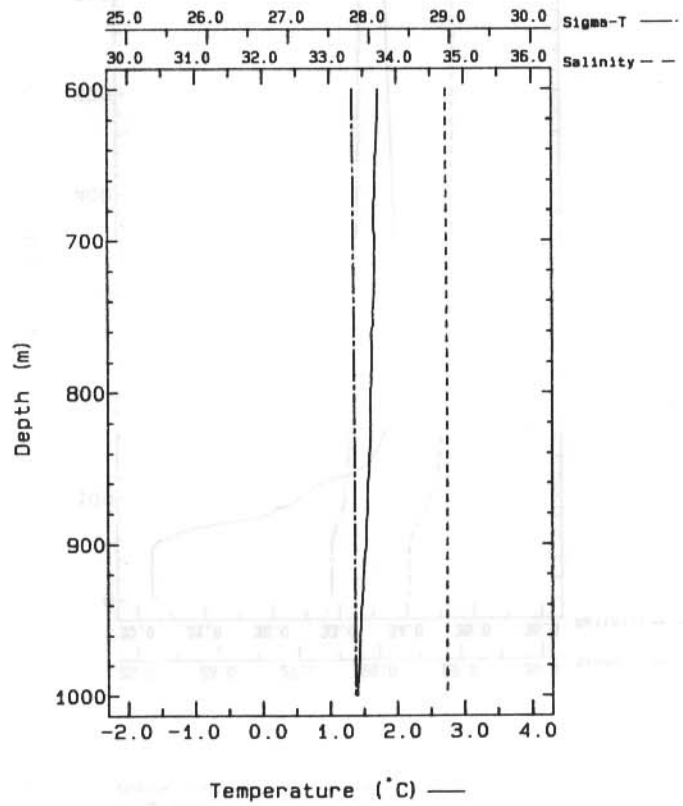
Cruise : ADBEX3 Station 17
16 OCT 1985 0509 GMT
Latitude 63: 22.69S
Longitude 63: 02.53E
Depth: CTD 1002 m Bottom NR



Cruise: ADBEX3 Station: 17
16 OCT 1985 0509 GMT
Latitude : 63: 22.69S
Longitude: 63: 02.53E
Depth: CTD 1002 m Bottom NR



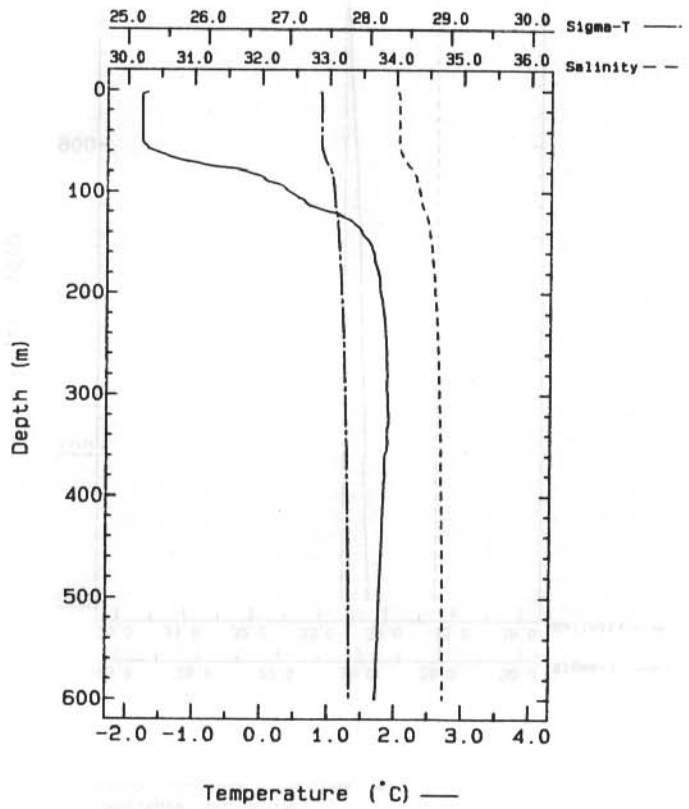

Cruise : ADBEX3 Station 17
16 OCT 1985 0509 GMT
Latitude 63: 22.69S
Longitude 63: 02.53E
Depth: CTD 1002 m Bottom NR



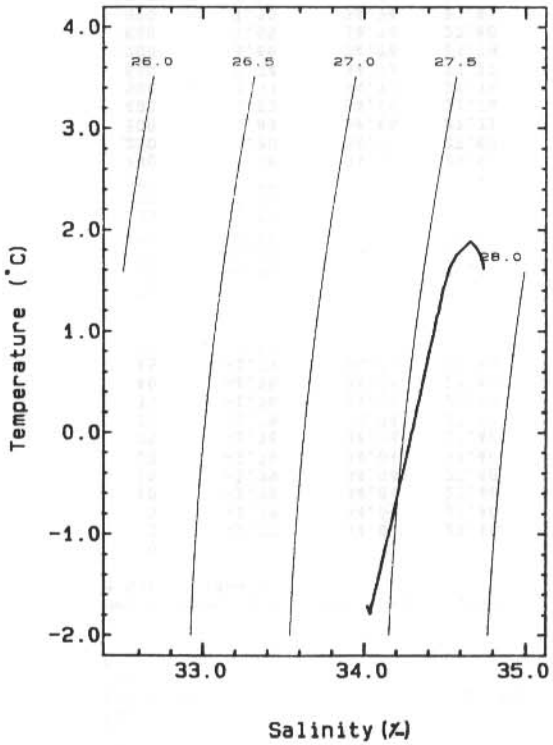
Cruise : ADBEX3
Station number : 18
Date : 16 OCT 1985
Start Time : 0703 GMT
Ship : NELLA DAN
Position : 63:22.81S 63:03.86E
Cast Depth (m) : 870
Bottom Depth (m) : Not Recorded

| Depth d bar | Temperature (deg C) | Salinity | Sigma-T |
|---|---|---|---|
| 0 | | | |
| 2 | -1.71 | 34.02 | 27.38 |
| 5 | -1.79 | 34.04 | 27.40 |
| 10 | -1.79 | 34.04 | 27.40 |
| 15 | -1.79 | 34.04 | 27.40 |
| 20 | -1.79 | 34.04 | 27.40 |
| 25 | -1.78 | 34.04 | 27.40 |
| 30 | -1.78 | 34.04 | 27.40 |
| 35 | -1.78 | 34.04 | 27.40 |
| 40 | -1.78 | 34.04 | 27.40 |
| 45 | -1.78 | 34.04 | 27.40 |
| 50 | -1.78 | 34.04 | 27.40 |
| 60 | -1.61 | 34.06 | 27.41 |
| 70 | -1.15 | 34.13 | 27.45 |
| 75 | -0.76 | 34.19 | 27.49 |
| 80 | -0.24 | 34.26 | 27.52 |
| 90 | 0.10 | 34.31 | 27.55 |
| 100 | 0.41 | 34.35 | 27.56 |
| 125 | 1.22 | 34.47 | 27.60 |
| 150 | 1.61 | 34.53 | 27.63 |
| 175 | 1.72 | 34.57 | 27.65 |
| 200 | 1.77 | 34.59 | 27.66 |
| 250 | 1.86 | 34.64 | 27.69 |
| 300 | 1.89 | 34.66 | 27.71 |
| 400 | 1.82 | 34.69 | 27.74 |
| 500 | 1.77 | 34.72 | 27.76 |
| 600 | 1.71 | 34.73 | 27.78 |
| 700 | 1.66 | 34.74 | 27.79 |
| 800 | 1.61 | 34.74 | 27.80 |

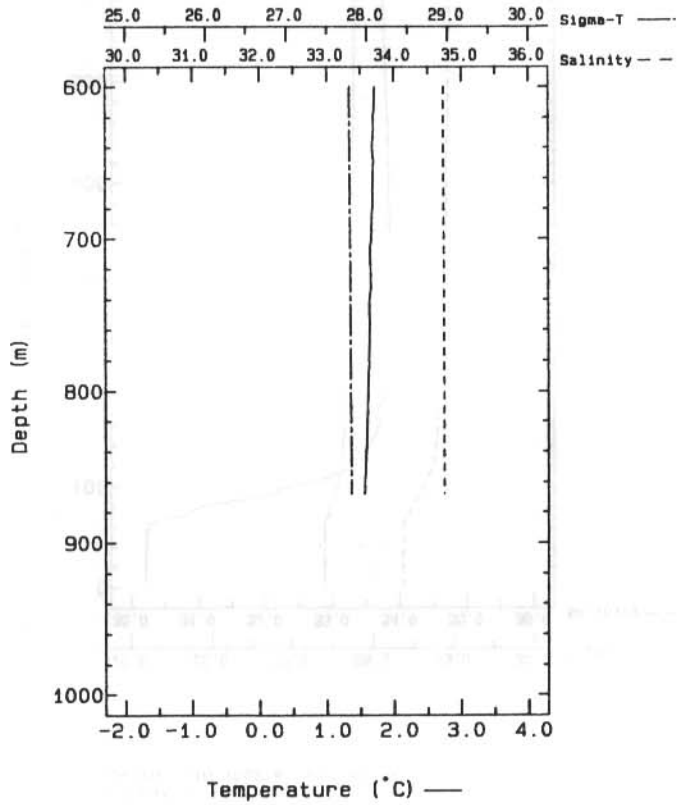
Cruise : ADBEX3 Station 18
16 OCT 1985 0703 GMT
Latitude 63:22.81S
Longitude 63:03.86E
Depth: CTD 870 m Bottom NR



Cruise: ADBEX3 Station: 18
16 OCT 1985 0703 GMT
Latitude : 63: 22.81S
Longitude: 63: 03.86E
Depth: CTD 870 m Bottom NR



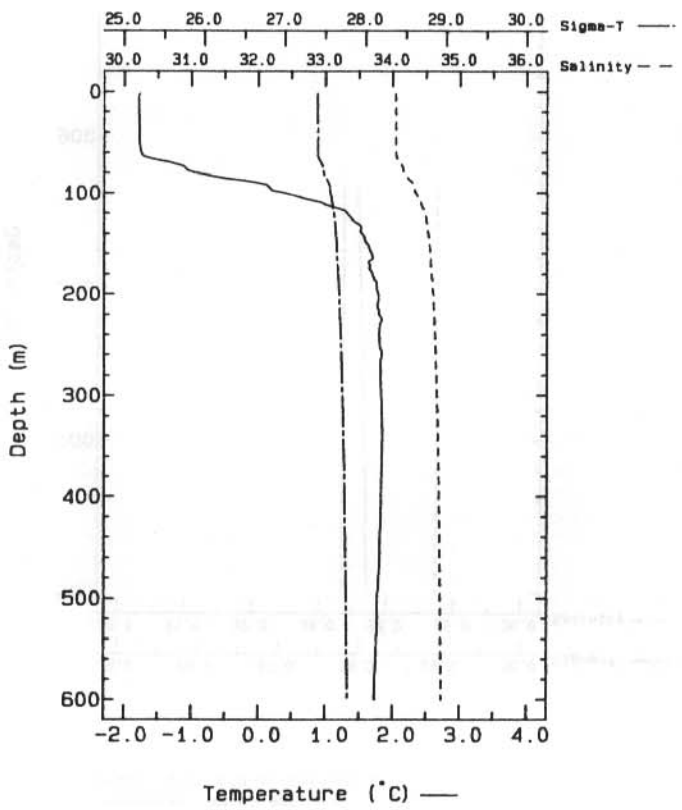

Cruise : ADBEX3 Station 18
16 OCT 1985 0703 GMT
Latitude 63: 22.81S
Longitude 63: 03.86E
Depth: CTD 870 m Bottom NR



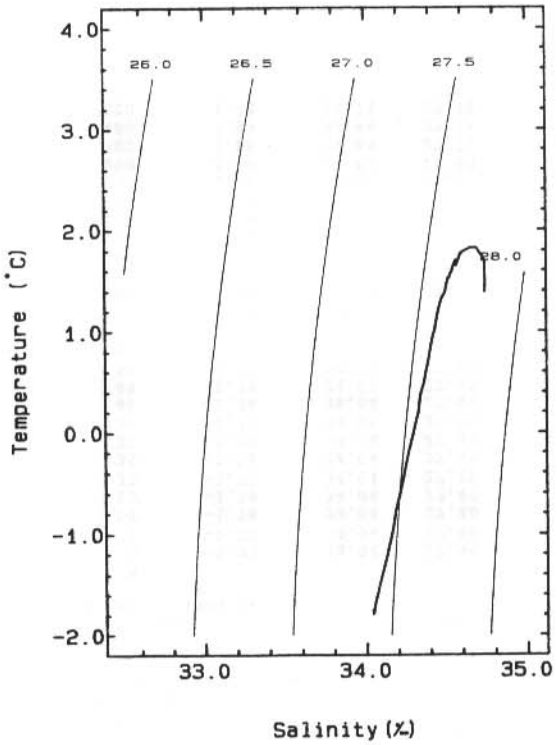
Cruise : ADBEX3
Station number : 19
Date : 16 OCT 1985
Start Time : 0959 GMT
Ship : NELLA DAN
Position : 63:22.78S 63:06.66E
Cast Depth (m) : 1002
Bottom Depth (m) : Not Recorded

| Depth d bar | Temperature (deg C) | Salinity | Sigma-T |
|---|---|---|---|
| 0 | | | |
| 2 | -1.77 | 34.04 | 27.40 |
| 5 | -1.79 | 34.04 | 27.40 |
| 10 | -1.79 | 34.04 | 27.40 |
| 15 | -1.79 | 34.04 | 27.40 |
| 20 | -1.79 | 34.04 | 27.40 |
| 25 | -1.78 | 34.04 | 27.40 |
| 30 | -1.78 | 34.04 | 27.40 |
| 35 | -1.78 | 34.04 | 27.40 |
| 40 | -1.78 | 34.04 | 27.40 |
| 45 | -1.77 | 34.04 | 27.40 |
| 50 | -1.77 | 34.04 | 27.40 |
| 60 | -1.75 | 34.05 | 27.40 |
| 70 | -1.33 | 34.11 | 27.44 |
| 75 | -1.10 | 34.15 | 27.47 |
| 80 | -0.96 | 34.17 | 27.48 |
| 90 | -0.02 | 34.29 | 27.54 |
| 100 | 0.36 | 34.34 | 27.55 |
| 125 | 1.38 | 34.50 | 27.61 |
| 150 | 1.61 | 34.54 | 27.64 |
| 175 | 1.65 | 34.57 | 27.65 |
| 200 | 1.78 | 34.60 | 27.67 |
| 250 | 1.80 | 34.63 | 27.69 |
| 300 | 1.83 | 34.66 | 27.71 |
| 400 | 1.83 | 34.69 | 27.74 |
| 500 | 1.77 | 34.71 | 27.76 |
| 600 | 1.74 | 34.73 | 27.77 |
| 700 | 1.69 | 34.74 | 27.79 |
| 800 | 1.59 | 34.74 | 27.80 |
| 900 | 1.50 | 34.74 | 27.81 |
| 1000 | 1.39 | 34.74 | 27.81 |

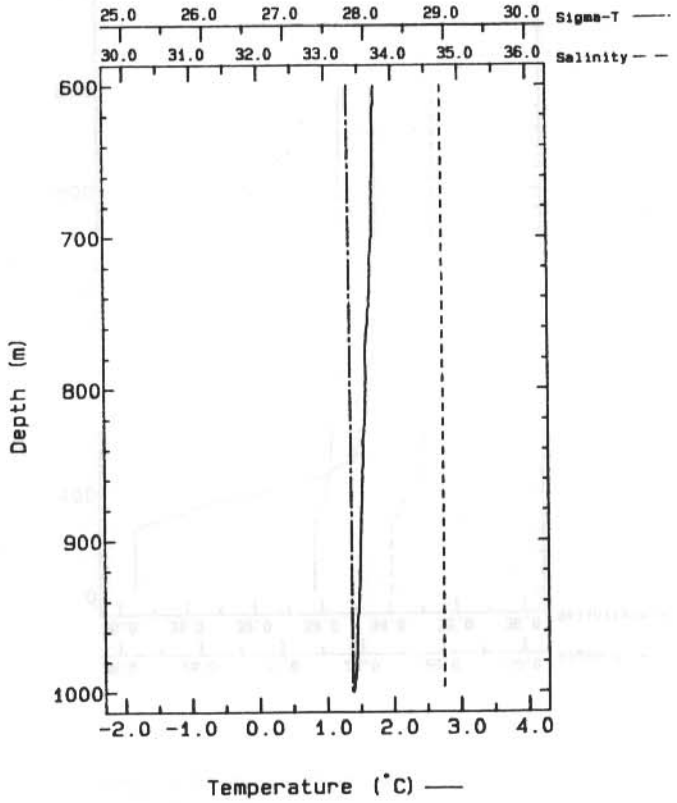
Cruise : ADBEX3 Station 19
16 OCT 1985 0959 GMT
Latitude 63: 22.78S
Longitude 63: 06.66E
Depth: CTD 1002 m Bottom NR



Cruise: ADBEX3 Station: 19
16 OCT 1985 0959 GMT
Latitude : 63: 22.78S
Longitude: 63: 06.66E
Depth: CTD 1002 m Bottom NR



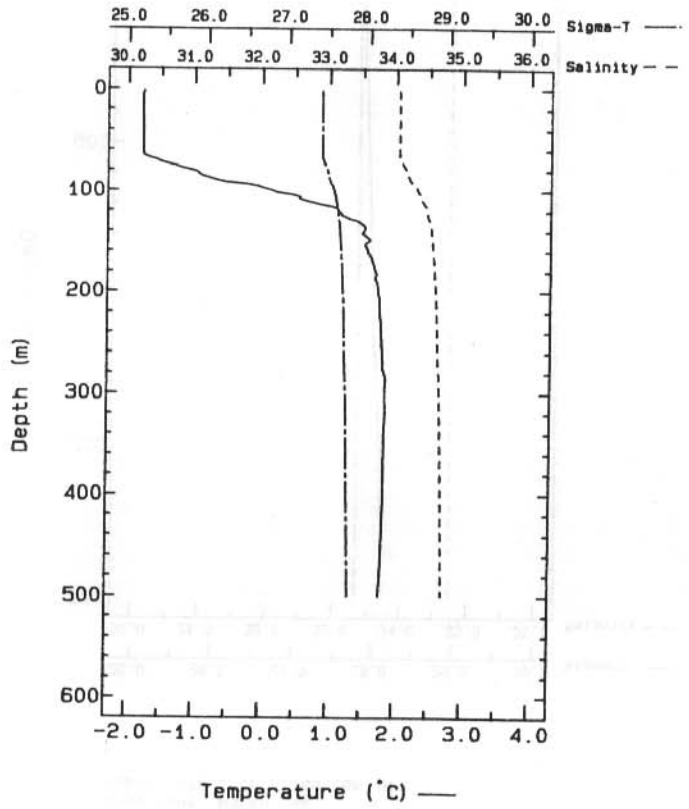

Cruise : ADBEX3 Station 19
16 OCT 1985 0959 GMT
Latitude 63: 22.78S
Longitude 63: 06.66E
Depth: CTD 1002 m Bottom NR



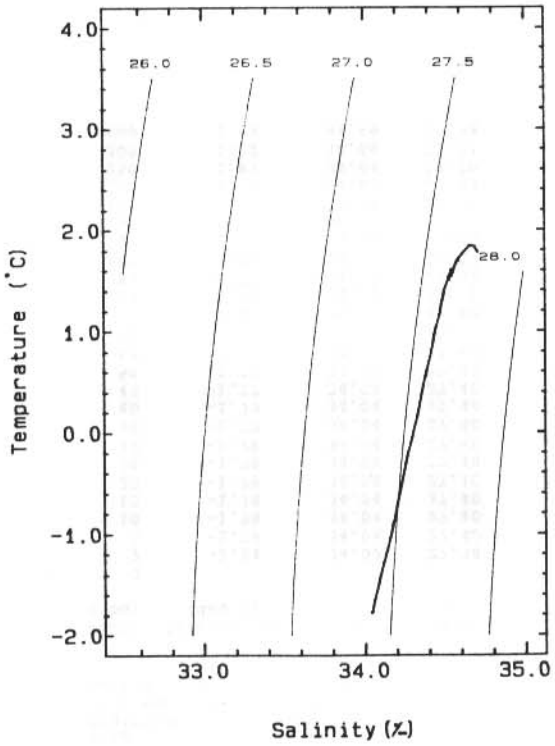
Cruise : ADBEX3
Station number : 20
Date : 16 OCT 1985
Start Time : 1037 GMT
Ship : NELLA DAN
Position : 63:22.64S 63:07.14E
Cast Depth (m) : 502
Bottom Depth (m) : Not Recorded

| Depth d bar | Temperature (deg C) | Salinity | Sigma-T |
|---|---|---|---|
| 0 | | | |
| 2 | -1.77 | 34.04 | 27.40 |
| 5 | -1.79 | 34.04 | 27.40 |
| 10 | -1.78 | 34.04 | 27.40 |
| 15 | -1.78 | 34.04 | 27.40 |
| 20 | -1.78 | 34.04 | 27.40 |
| 25 | -1.78 | 34.04 | 27.40 |
| 30 | -1.78 | 34.04 | 27.40 |
| 35 | -1.78 | 34.05 | 27.41 |
| 40 | -1.78 | 34.04 | 27.40 |
| 45 | -1.78 | 34.04 | 27.40 |
| 50 | -1.78 | 34.05 | 27.40 |
| 60 | -1.78 | 34.04 | 27.40 |
| 70 | -1.58 | 34.07 | 27.42 |
| 75 | -1.34 | 34.11 | 27.44 |
| 80 | -1.04 | 34.16 | 27.47 |
| 90 | -0.66 | 34.21 | 27.50 |
| 100 | 0.15 | 34.33 | 27.56 |
| 125 | 1.22 | 34.48 | 27.61 |
| 150 | 1.60 | 34.54 | 27.64 |
| 175 | 1.68 | 34.58 | 27.66 |
| 200 | 1.74 | 34.60 | 27.67 |
| 250 | 1.80 | 34.63 | 27.69 |
| 300 | 1.85 | 34.66 | 27.71 |
| 400 | 1.83 | 34.69 | 27.74 |
| 500 | 1.78 | 34.71 | 27.76 |

Cruise : ADBEX3 Station 20
16 OCT 1985 1037 GMT
Latitude 63: 22.64S
Longitude 63: 07.14E
Depth: CTD 502 m Bottom NR



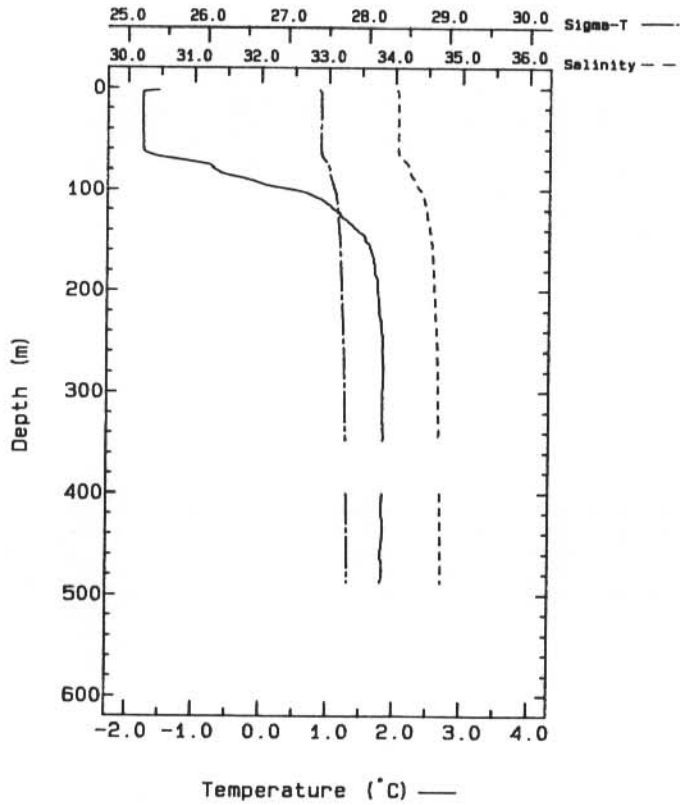
Cruise: ADBEX3 Station: 20
16 OCT 1985 1037 GMT
Latitude : 63: 22.64S
Longitude: 63: 07.14E
Depth: CTD 502 m Bottom NA



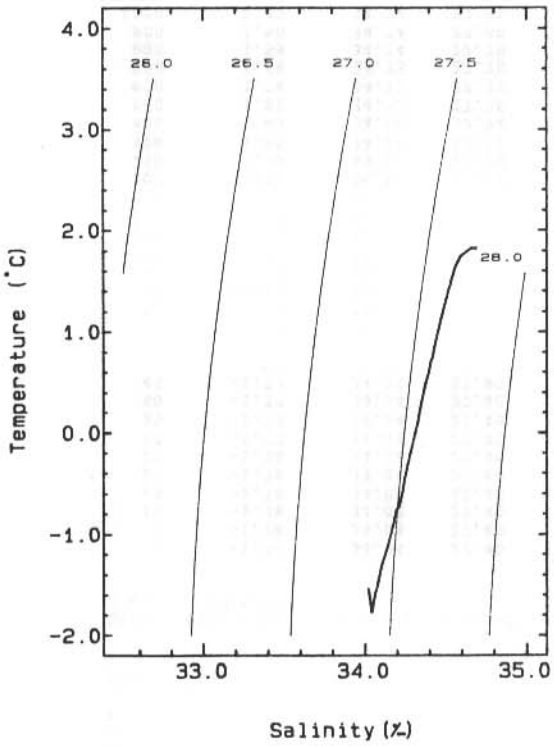
Cruise : ADBEX3
Station number : 21
Date : 16 OCT 1985
Start Time : 1321 GMT
Ship : NELLA DAN
Position : 63:21.63S 63:09.89E
Cast Depth (m) : 490
Bottom Depth (m) : Not Recorded

| Depth d bar | Temperature (deg C) | Salinity | Sigma-T |
|---|---|---|---|
| 0 | | | |
| 2 | -1.54 | 34.02 | 27.38 |
| 5 | -1.78 | 34.04 | 27.40 |
| 10 | -1.78 | 34.04 | 27.40 |
| 15 | -1.78 | 34.04 | 27.40 |
| 20 | -1.78 | 34.04 | 27.40 |
| 25 | -1.78 | 34.04 | 27.40 |
| 30 | -1.78 | 34.04 | 27.40 |
| 35 | -1.77 | 34.04 | 27.40 |
| 40 | -1.77 | 34.04 | 27.40 |
| 45 | -1.77 | 34.04 | 27.40 |
| 50 | -1.77 | 34.04 | 27.40 |
| 60 | -1.76 | 34.04 | 27.40 |
| 70 | -1.32 | 34.10 | 27.44 |
| 75 | -0.85 | 34.18 | 27.49 |
| 80 | -0.69 | 34.22 | 27.51 |
| 90 | -0.20 | 34.28 | 27.54 |
| 100 | 0.44 | 34.37 | 27.57 |
| 125 | 1.18 | 34.48 | 27.62 |
| 150 | 1.55 | 34.55 | 27.64 |
| 175 | 1.70 | 34.58 | 27.66 |
| 200 | 1.75 | 34.60 | 27.67 |
| 250 | 1.82 | 34.64 | 27.70 |
| 300 | 1.82 | 34.66 | 27.71 |
| 400 | 1.82 | 34.69 | 27.74 |

Cruise : ADBEX3 Station 21
16 OCT 1985 1321 GMT
Latitude 63: 21.63S
Longitude 63: 09.89E
Depth: CTD 490 m Bottom NR



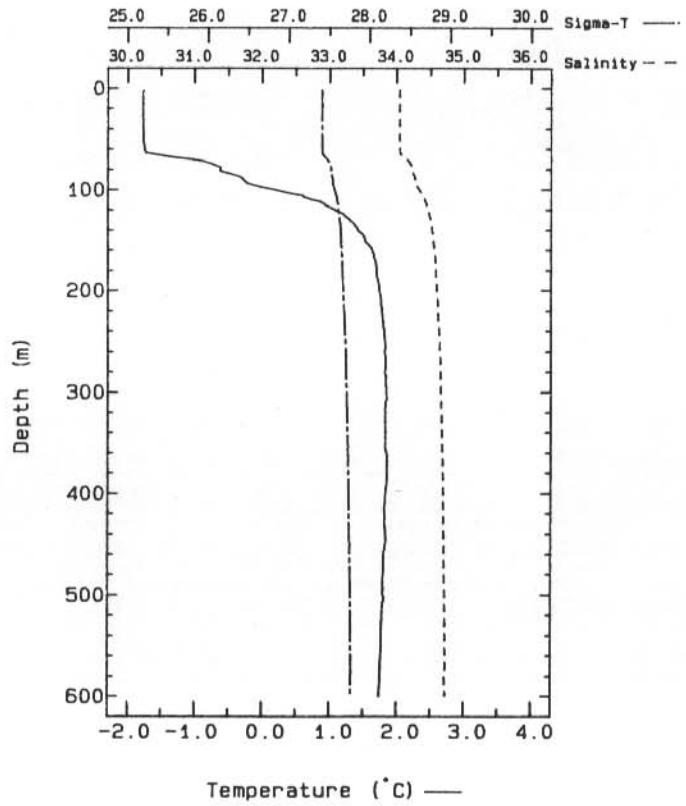
Cruise: ADBEX3 Station: 21
16 OCT 1985 1321 GMT
Latitude : 63: 21.63S
Longitude: 63: 09.89E
Depth: CTD 490 m Bottom NR



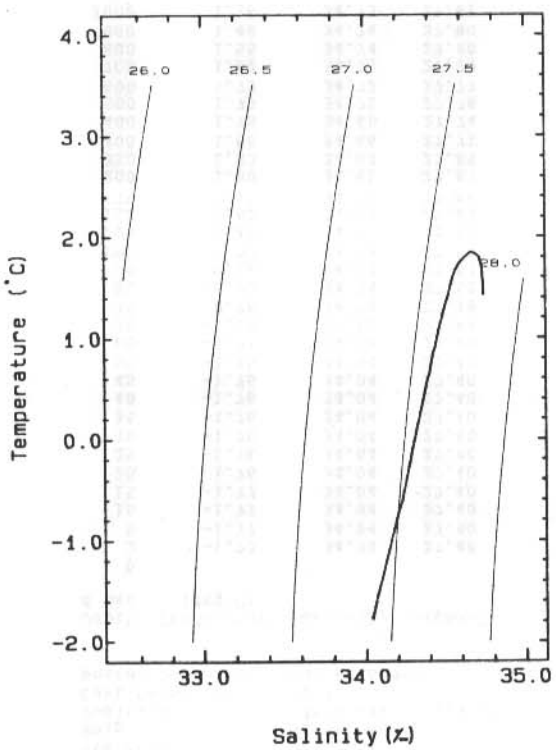
Cruise : ADBEX3
Station number : 22
Date : 16 OCT 1985
Start Time : 1344 GMT
Ship : NELLA DAN
Position : 63:21.52S 63:10.29E
Cast Depth (m) : 1012
Bottom Depth (m) : Not Recorded

| Depth d bar | Temperature (deg C) | Salinity | Sigma-T |
|---|---|---|---|
| 0 | | | |
| 2 | -1.76 | 34.04 | 27.40 |
| 5 | -1.78 | 34.04 | 27.40 |
| 10 | -1.78 | 34.04 | 27.40 |
| 15 | -1.78 | 34.04 | 27.40 |
| 20 | -1.78 | 34.04 | 27.40 |
| 25 | -1.78 | 34.04 | 27.40 |
| 30 | -1.77 | 34.04 | 27.40 |
| 35 | -1.77 | 34.04 | 27.40 |
| 40 | -1.77 | 34.04 | 27.40 |
| 45 | -1.77 | 34.04 | 27.40 |
| 50 | -1.77 | 34.04 | 27.40 |
| 60 | -1.75 | 34.04 | 27.40 |
| 70 | -1.11 | 34.15 | 27.47 |
| 75 | -0.74 | 34.21 | 27.50 |
| 80 | -0.63 | 34.23 | 27.51 |
| 90 | -0.28 | 34.28 | 27.53 |
| 100 | 0.16 | 34.33 | 27.56 |
| 125 | 1.22 | 34.49 | 27.62 |
| 150 | 1.52 | 34.54 | 27.64 |
| 175 | 1.70 | 34.58 | 27.66 |
| 200 | 1.75 | 34.60 | 27.67 |
| 250 | 1.83 | 34.64 | 27.70 |
| 300 | 1.85 | 34.66 | 27.71 |
| 400 | 1.83 | 34.69 | 27.74 |
| 500 | 1.80 | 34.72 | 27.76 |
| 600 | 1.74 | 34.72 | 27.77 |
| 700 | 1.68 | 34.73 | 27.78 |
| 800 | 1.59 | 34.74 | 27.79 |
| 900 | 1.50 | 34.74 | 27.80 |
| 1000 | 1.42 | 34.74 | 27.81 |

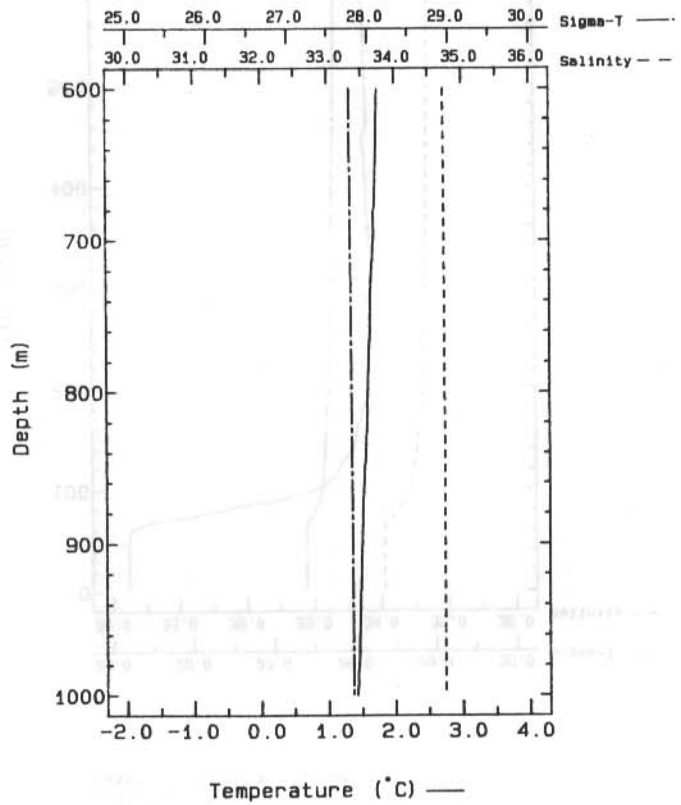
Cruise : ADBEX3 Station 22
16 OCT 1985 1344 GMT
Latitude 63: 21.52S
Longitude 63: 10.29E
Depth: CTD 1012 m Bottom NR



Cruise: ADBEX3 Station: 22
16 OCT 1985 1344 GMT
Latitude : 63: 21.52S
Longitude: 63: 10.29E
Depth: CTD 1012 m Bottom NR



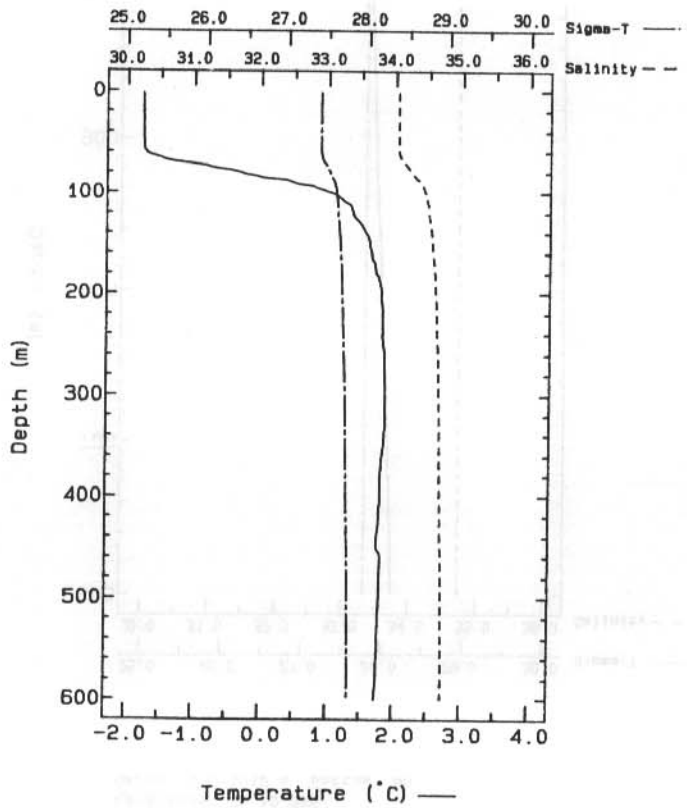

Cruise : ADBEX3 Station 22
16 OCT 1985 1344 GMT
Latitude 63: 21.52S
Longitude 63: 10.29E
Depth: CTD 1012 m Bottom NR



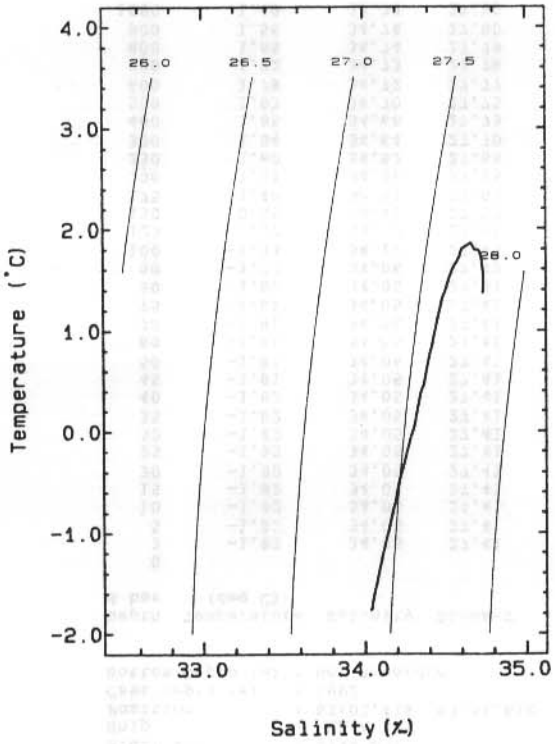
Cruise : ADBEX3
Station number : 23
Date : 18 OCT 1985
Start Time : 0356 GMT
Ship : NELLA DAN
Position : 63:31.64S 63:14.09E
Cast Depth (m) : 1002
Bottom Depth (m) : Not Recorded

| Depth d bar | Temperature (deg C) | Salinity | Sigma-T |
|---|---|---|---|
| 0 | | | |
| 2 | -1.77 | 34.04 | 27.40 |
| 5 | -1.77 | 34.04 | 27.40 |
| 10 | -1.77 | 34.04 | 27.40 |
| 15 | -1.77 | 34.04 | 27.40 |
| 20 | -1.76 | 34.04 | 27.40 |
| 25 | -1.76 | 34.04 | 27.40 |
| 30 | -1.76 | 34.04 | 27.40 |
| 35 | -1.76 | 34.04 | 27.40 |
| 40 | -1.76 | 34.04 | 27.40 |
| 45 | -1.76 | 34.04 | 27.40 |
| 50 | -1.75 | 34.04 | 27.40 |
| 60 | -1.71 | 34.05 | 27.40 |
| 70 | -1.28 | 34.10 | 27.44 |
| 75 | -0.76 | 34.18 | 27.48 |
| 80 | -0.33 | 34.24 | 27.51 |
| 90 | 0.46 | 34.37 | 27.57 |
| 100 | 1.02 | 34.44 | 27.59 |
| 125 | 1.40 | 34.51 | 27.62 |
| 150 | 1.62 | 34.55 | 27.64 |
| 175 | 1.71 | 34.59 | 27.66 |
| 200 | 1.80 | 34.61 | 27.67 |
| 250 | 1.83 | 34.64 | 27.69 |
| 300 | 1.86 | 34.66 | 27.71 |
| 400 | 1.79 | 34.68 | 27.74 |
| 500 | 1.79 | 34.71 | 27.76 |
| 600 | 1.73 | 34.72 | 27.77 |
| 700 | 1.62 | 34.73 | 27.79 |
| 800 | 1.55 | 34.74 | 27.80 |
| 900 | 1.48 | 34.74 | 27.80 |
| 1000 | 1.36 | 34.73 | 27.81 |

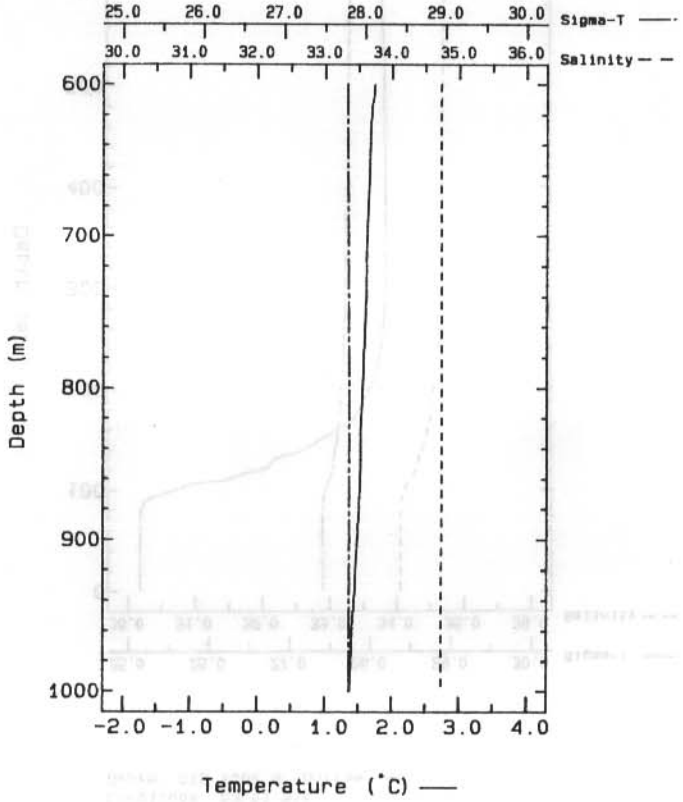
Cruise : ADBEX3 Station 23
18 OCT 1985 0356 GMT
Latitude 63: 31.64S
Longitude 63: 14.09E
Depth: CTD 1002 m Bottom NR



Cruise: ADBEX3 Station: 23
18 OCT 1985 0356 GMT
Latitude : 63: 31.64S
Longitude: 63: 14.09E
Depth: CTD 1002 m Bottom NR



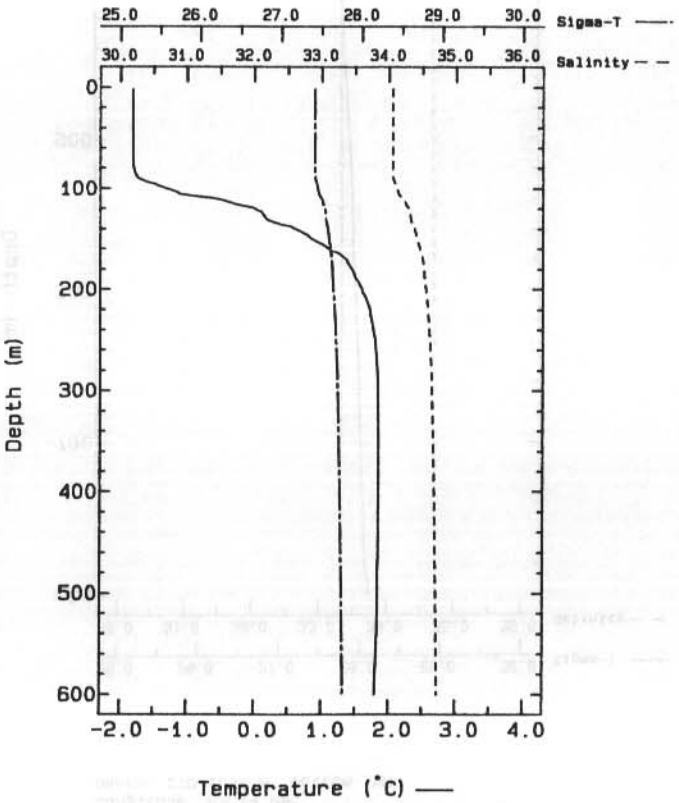

Cruise : ADBEX3 Station 23
18 OCT 1985 0356 GMT
Latitude 63: 31.64S
Longitude 63: 14.09E
Depth: CTD 1002 m Bottom NR



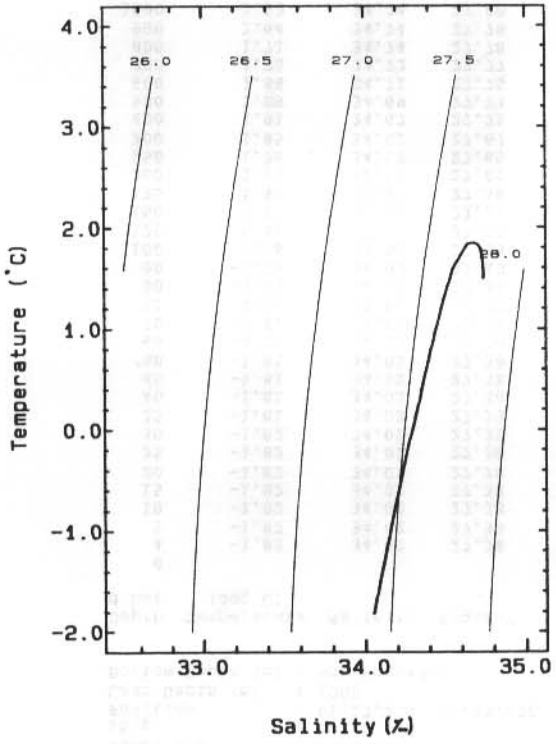
Cruise : ADBEX3
Station number : 24
Date : 18 OCT 1985
Start Time : 1746 GMT
Ship : NELLA DAN
Position : 63:07.41S 63:51.61E
Cast Depth (m) : 1002
Bottom Depth (m) : Not Recorded

| Depth d bar | Temperature (deg C) | Salinity | Sigma-T |
|---|---|---|---|
| 0 | | | |
| 2 | -1.82 | 34.05 | 27.41 |
| 5 | -1.82 | 34.05 | 27.41 |
| 10 | -1.82 | 34.05 | 27.41 |
| 15 | -1.82 | 34.05 | 27.41 |
| 20 | -1.82 | 34.05 | 27.41 |
| 25 | -1.82 | 34.05 | 27.41 |
| 30 | -1.82 | 34.05 | 27.41 |
| 35 | -1.82 | 34.05 | 27.41 |
| 40 | -1.82 | 34.05 | 27.41 |
| 45 | -1.81 | 34.05 | 27.41 |
| 50 | -1.81 | 34.06 | 27.41 |
| 60 | -1.81 | 34.05 | 27.41 |
| 70 | -1.81 | 34.06 | 27.41 |
| 75 | -1.81 | 34.05 | 27.41 |
| 80 | -1.80 | 34.06 | 27.41 |
| 90 | -1.73 | 34.06 | 27.42 |
| 100 | -1.33 | 34.12 | 27.45 |
| 125 | 0.12 | 34.32 | 27.55 |
| 150 | 0.85 | 34.42 | 27.59 |
| 175 | 1.40 | 34.51 | 27.63 |
| 200 | 1.61 | 34.56 | 27.65 |
| 250 | 1.80 | 34.62 | 27.68 |
| 300 | 1.84 | 34.64 | 27.70 |
| 400 | 1.85 | 34.68 | 27.73 |
| 500 | 1.83 | 34.70 | 27.75 |
| 600 | 1.79 | 34.72 | 27.77 |
| 700 | 1.72 | 34.73 | 27.78 |
| 800 | 1.65 | 34.74 | 27.79 |
| 900 | 1.56 | 34.74 | 27.80 |
| 1000 | 1.49 | 34.74 | 27.80 |

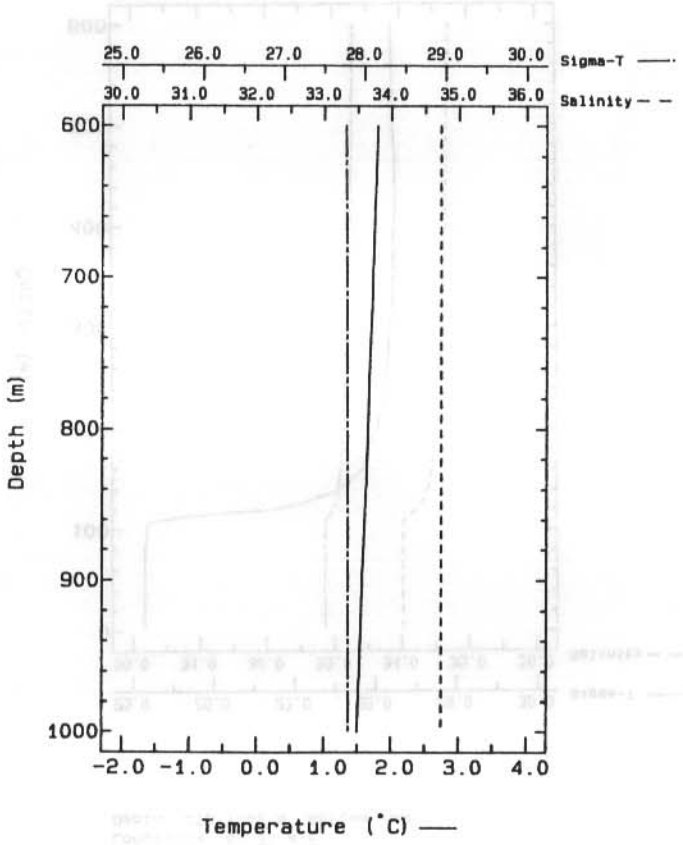
Cruise : ADBEX3 Station 24
18 OCT 1985 1746 GMT
Latitude 63:07.41S
Longitude 63:51.61E
Depth: CTD 1002 m Bottom NR



Cruise: ADBEX3 Station: 24
18 OCT 1985 1746 GMT
Latitude : 63: 07.41S
Longitude: 63: 51.61E
Depth: CTD 1002 m Bottom NR



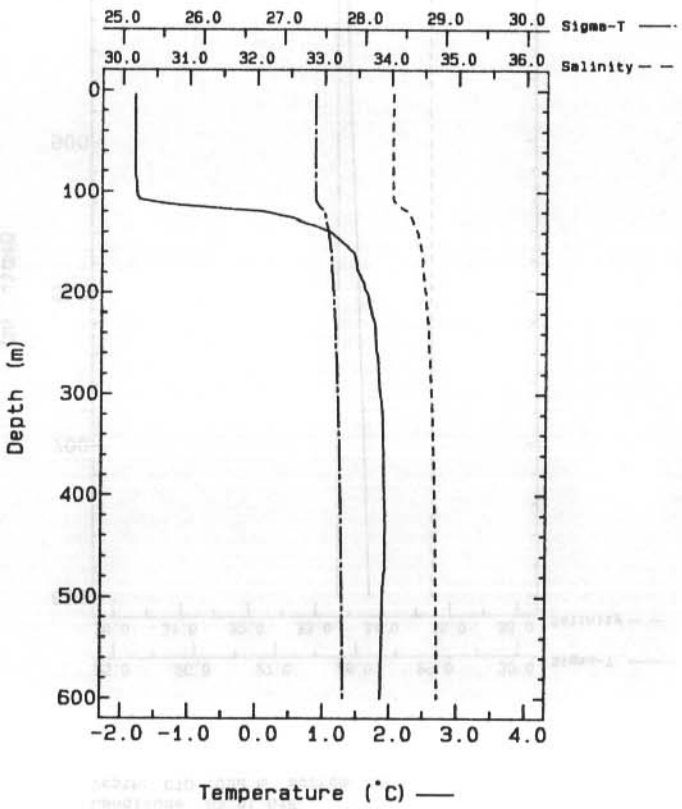

Cruise : ADBEX3 Station 24
18 OCT 1985 1746 GMT
Latitude 63: 07.41S
Longitude 63: 51.61E
Depth: CTD 1002 m Bottom NR



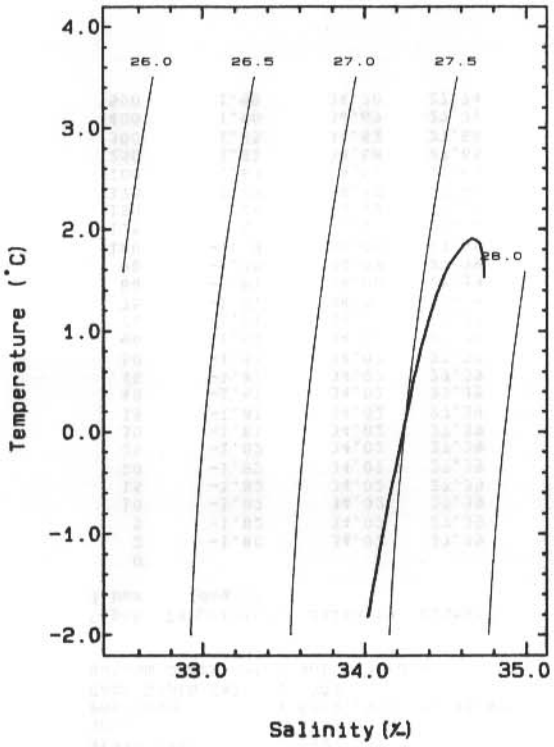
Cruise : ADBEX3
Station number : 25
Date : 20 OCT 1985
Start Time : 1528 GMT
Ship : NELLA DAN
Position : 61:27.75S 62:33.47E
Cast Depth (m) : 1002
Bottom Depth (m) : Not Recorded

| Depth d bar | Temperature (deg C) | Salinity | Sigma-T |
|---|---|---|---|
| 0 | | | |
| 4 | -1.82 | 34.02 | 27.38 |
| 5 | -1.82 | 34.02 | 27.38 |
| 10 | -1.82 | 34.02 | 27.38 |
| 15 | -1.82 | 34.02 | 27.38 |
| 20 | -1.82 | 34.02 | 27.38 |
| 25 | -1.82 | 34.02 | 27.38 |
| 30 | -1.82 | 34.02 | 27.39 |
| 35 | -1.81 | 34.02 | 27.38 |
| 40 | -1.81 | 34.02 | 27.38 |
| 45 | -1.81 | 34.02 | 27.38 |
| 50 | -1.81 | 34.02 | 27.38 |
| 60 | -1.81 | 34.02 | 27.38 |
| 70 | -1.81 | 34.02 | 27.38 |
| 75 | -1.81 | 34.02 | 27.39 |
| 80 | -1.81 | 34.02 | 27.38 |
| 90 | -1.79 | 34.02 | 27.39 |
| 100 | -1.78 | 34.02 | 27.39 |
| 125 | 0.44 | 34.29 | 27.51 |
| 150 | 1.27 | 34.43 | 27.57 |
| 175 | 1.49 | 34.48 | 27.59 |
| 200 | 1.64 | 34.52 | 27.62 |
| 250 | 1.78 | 34.57 | 27.65 |
| 300 | 1.85 | 34.62 | 27.67 |
| 400 | 1.91 | 34.67 | 27.71 |
| 500 | 1.89 | 34.69 | 27.73 |
| 600 | 1.86 | 34.71 | 27.75 |
| 700 | 1.78 | 34.72 | 27.77 |
| 800 | 1.71 | 34.74 | 27.78 |
| 900 | 1.64 | 34.74 | 27.79 |
| 1000 | 1.52 | 34.74 | 27.80 |

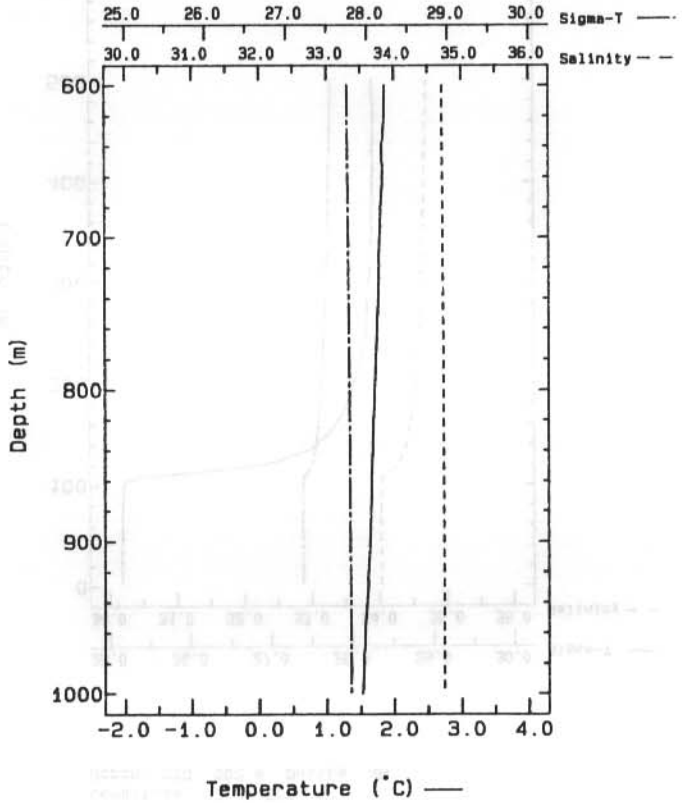
Cruise : ADBEX3 Station 25
20 OCT 1985 1528 GMT
Latitude 61:27.75S
Longitude 62:33.47E
Depth: CTD 1002 m Bottom NR



Cruise: ADBEX3 Station: 25
20 OCT 1985 1528 GMT
Latitude : 61: 27.75S
Longitude: 62: 33.47E
Depth: CTD 1002 m Bottom NR



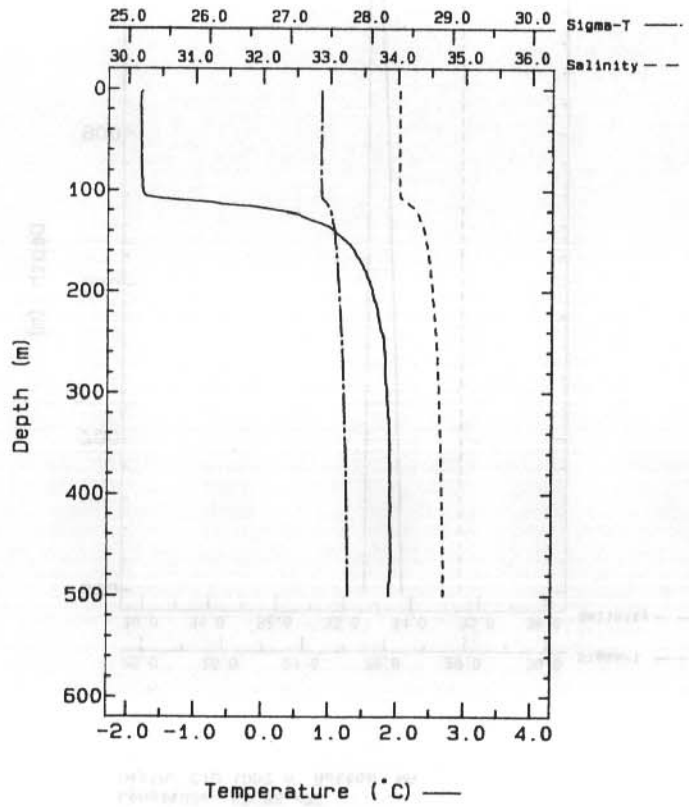

Cruise : ADBEX3 Station 25
20 OCT 1985 1528 GMT
Latitude 61: 27.75S
Longitude 62: 33.47E
Depth: CTD 1002 m Bottom NR



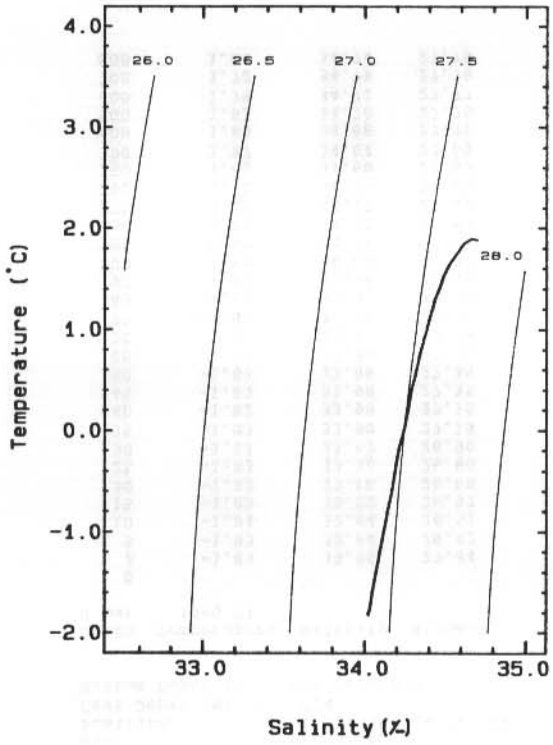
Cruise : ADBEX3
Station number : 26
Date : 20 OCT 1985
Start Time : 1622 GMT
Ship : NELLA DAN
Position : 61:27.95S 62:31.60E
Cast Depth (m) : 502
Bottom Depth (m) : Not Recorded

| Depth d bar | Temperature (deg C) | Salinity | Sigma-T |
|---|---|---|---|
| 0 | | | |
| 2 | -1.80 | 34.02 | 27.39 |
| 5 | -1.82 | 34.02 | 27.39 |
| 10 | -1.82 | 34.02 | 27.39 |
| 15 | -1.82 | 34.02 | 27.39 |
| 20 | -1.82 | 34.02 | 27.39 |
| 25 | -1.82 | 34.02 | 27.39 |
| 30 | -1.81 | 34.02 | 27.39 |
| 35 | -1.81 | 34.02 | 27.39 |
| 40 | -1.81 | 34.02 | 27.39 |
| 45 | -1.81 | 34.02 | 27.39 |
| 50 | -1.81 | 34.02 | 27.39 |
| 60 | -1.81 | 34.02 | 27.39 |
| 70 | -1.81 | 34.02 | 27.39 |
| 75 | -1.81 | 34.02 | 27.39 |
| 80 | -1.81 | 34.02 | 27.39 |
| 90 | -1.79 | 34.03 | 27.39 |
| 100 | -1.78 | 34.03 | 27.39 |
| 125 | 0.57 | 34.32 | 27.52 |
| 150 | 1.24 | 34.43 | 27.57 |
| 175 | 1.49 | 34.48 | 27.60 |
| 200 | 1.63 | 34.52 | 27.62 |
| 250 | 1.81 | 34.58 | 27.65 |
| 300 | 1.85 | 34.62 | 27.68 |
| 400 | 1.90 | 34.67 | 27.71 |
| 500 | 1.88 | 34.70 | 27.74 |

Cruise : ADBEX3 Station 26
20 OCT 1985 1622 GMT
Latitude 61:27.95S
Longitude 62:31.60E
Depth: CTD 502 m Bottom NR



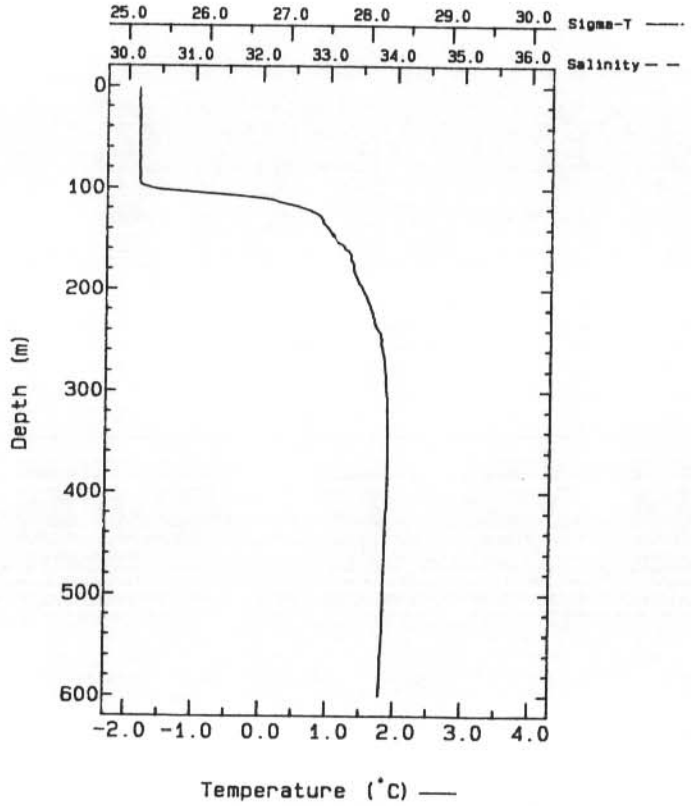
Cruise: ADBEX3 Station: 26
20 OCT 1985 1622 GMT
Latitude : 61:27.95S
Longitude: 62:31.60E
Depth: CTD 502 m Bottom NR



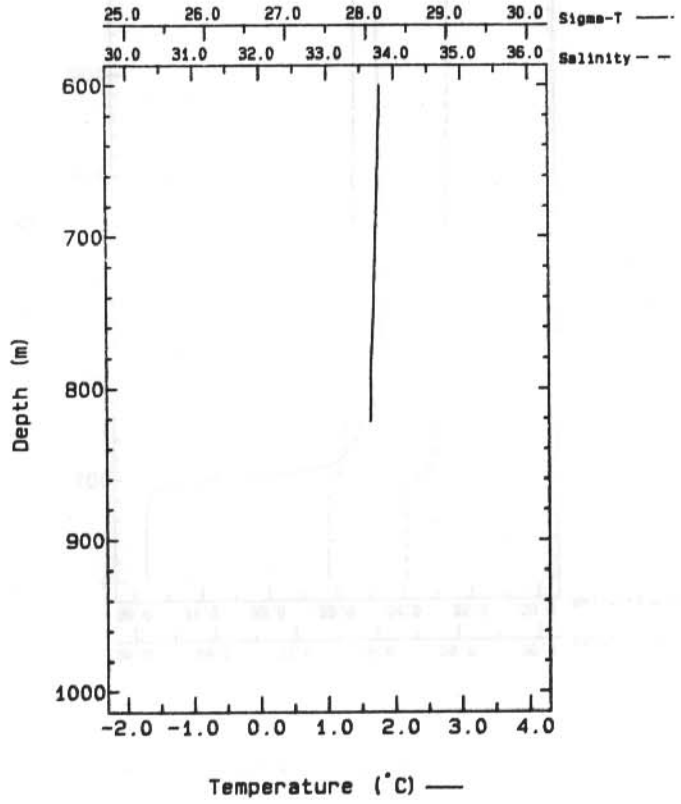
Cruise : ADBEX3
Station number : 27
Date : 22 OCT 1985
Start Time : 0317 GMT
Ship : NELLA DAN
Position : 61:32.93S 54:34.18E
Cast Depth (m) : 824
Bottom Depth (m) : Not Recorded

| Depth d bar | Temperature (deg C) | Salinity | Sigma-T |
|---|---|---|---|
| 0 | | | |
| 2 | -1.83 | 33.96 | 27.34 |
| 5 | -1.83 | 32.84 | 26.42 |
| 10 | -1.84 | 32.94 | 26.51 |
| 15 | -1.83 | 33.02 | 26.57 |
| 20 | -1.83 | 33.16 | 26.68 |
| 25 | -1.83 | 33.30 | 26.80 |
| 30 | -1.83 | 33.42 | 26.90 |
| 35 | -1.83 | 33.90 | 27.29 |
| 40 | -1.82 | 33.98 | 27.35 |
| 45 | -1.83 | 33.98 | 27.35 |
| 50 | -1.83 | 33.98 | 27.35 |
| 60 | -1.82 | 33.98 | 27.35 |
| 70 | -1.82 | 33.98 | 27.35 |
| 75 | -1.82 | 33.98 | 27.35 |
| 80 | -1.82 | 33.98 | 27.35 |
| 90 | -1.82 | 33.98 | 27.35 |
| 100 | -1.66 | 34.00 | 27.37 |
| 125 | 0.80 | 34.36 | 27.54 |
| 150 | 1.08 | 34.42 | 27.57 |
| 175 | 1.36 | 34.49 | 27.61 |
| 200 | 1.50 | 34.53 | 27.63 |
| 250 | 1.80 | 34.60 | 27.67 |
| 300 | 1.87 | 34.64 | 27.69 |
| 400 | 1.88 | 34.68 | 27.72 |
| 500 | 1.83 | 34.70 | 27.75 |
| 600 | 1.79 | 34.72 | 27.77 |
| 700 | 1.72 | 34.73 | 27.78 |
| 800 | 1.64 | 34.74 | 27.79 |

Cruise : ADBEX3 Station 27
22 OCT 1985 0317 GMT
Latitude 61:32.93S
Longitude 54:34.18E
Depth: CTD 824 m Bottom NR



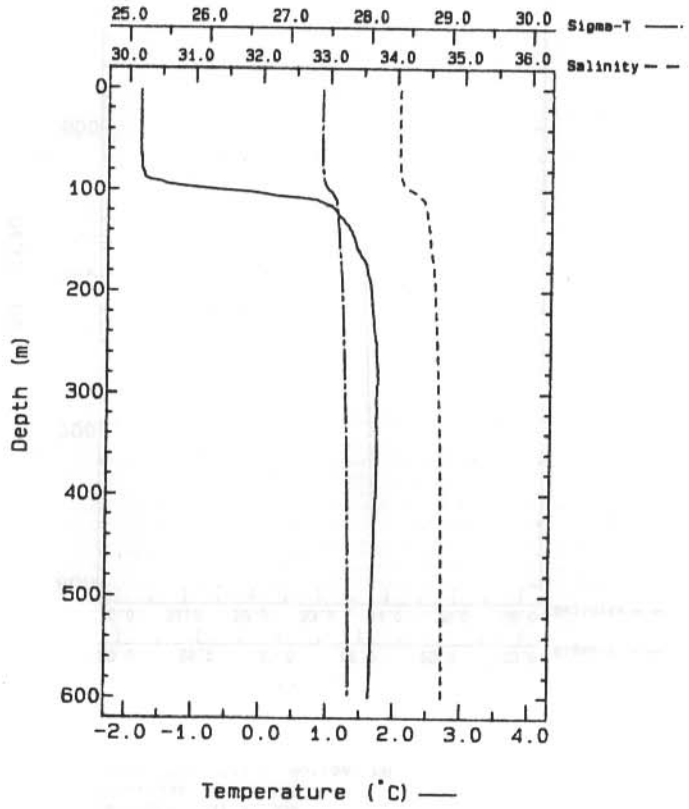
Cruise : ADBEX3 Station 27
22 OCT 1985 0317 GMT
Latitude 61: 32.93S
Longitude 54: 34.18E
Depth: CTD 824 m Bottom NR



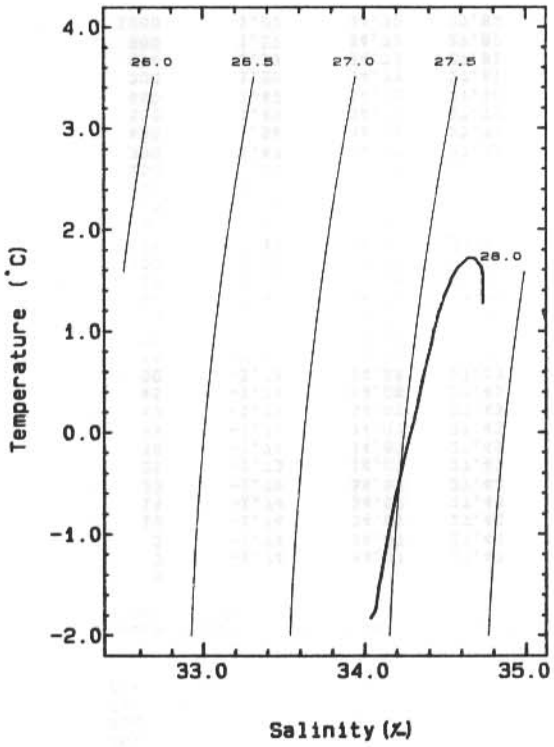
Cruise : ADBEX3
Station number : 28
Date : 23 OCT 1985
Start Time : 0457 GMT
Ship : NELLA DAN
Position : 63:01.20S 53:42.87E
Cast Depth (m) : 1002
Bottom Depth (m) : Not Recorded

| Depth d bar | Temperature (deg C) | Salinity | Sigma-T |
|---|---|---|---|
| 0 | | | |
| 2 | -1.83 | 34.04 | 27.40 |
| 5 | -1.83 | 34.04 | 27.40 |
| 10 | -1.83 | 34.04 | 27.40 |
| 15 | -1.83 | 34.04 | 27.40 |
| 20 | -1.83 | 34.03 | 27.40 |
| 25 | -1.83 | 34.04 | 27.40 |
| 30 | -1.83 | 34.03 | 27.40 |
| 35 | -1.83 | 34.04 | 27.40 |
| 40 | -1.82 | 34.03 | 27.40 |
| 45 | -1.82 | 34.04 | 27.40 |
| 50 | -1.82 | 34.04 | 27.40 |
| 60 | -1.82 | 34.04 | 27.40 |
| 70 | -1.81 | 34.04 | 27.41 |
| 75 | -1.80 | 34.04 | 27.40 |
| 80 | -1.79 | 34.05 | 27.41 |
| 90 | -1.69 | 34.07 | 27.42 |
| 100 | -0.61 | 34.20 | 27.49 |
| 125 | 1.14 | 34.45 | 27.60 |
| 150 | 1.38 | 34.50 | 27.62 |
| 175 | 1.56 | 34.55 | 27.65 |
| 200 | 1.63 | 34.58 | 27.67 |
| 250 | 1.71 | 34.62 | 27.69 |
| 300 | 1.72 | 34.65 | 27.71 |
| 400 | 1.71 | 34.69 | 27.74 |
| 500 | 1.66 | 34.71 | 27.76 |
| 600 | 1.63 | 34.72 | 27.78 |
| 700 | 1.56 | 34.73 | 27.79 |
| 800 | 1.47 | 34.74 | 27.80 |
| 900 | 1.35 | 34.73 | 27.81 |
| 1000 | 1.27 | 34.73 | 27.81 |

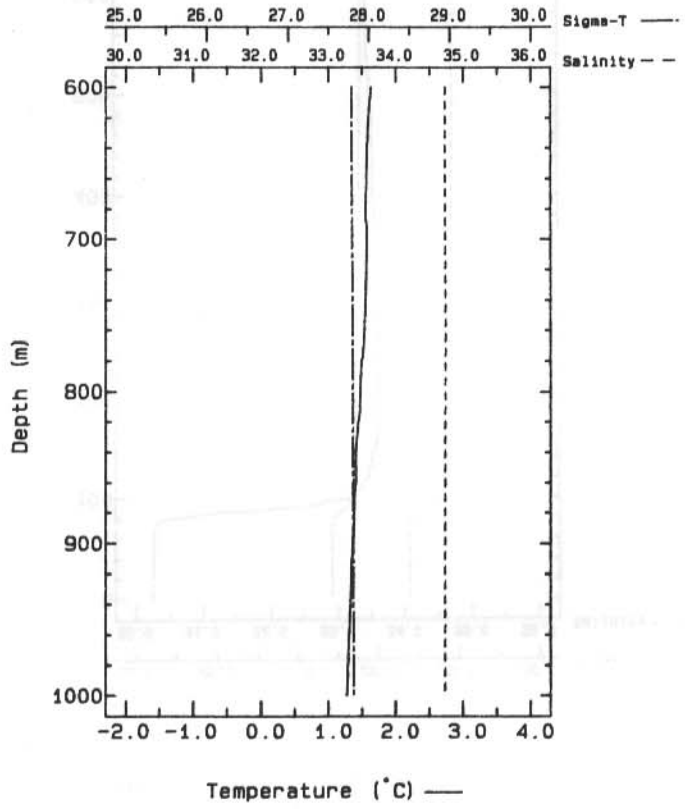
Cruise : ADBEX3 Station 28
23 OCT 1985 0457 GMT
Latitude 63:01.20S
Longitude 53:42.87E
Depth: CTD 1002 m Bottom NR



Cruise: ADBEX3 Station: 28
23 OCT 1985 0457 GMT
Latitude : 63: 01.20S
Longitude: 53: 42.87E
Depth: CTD 1002 m Bottom NR



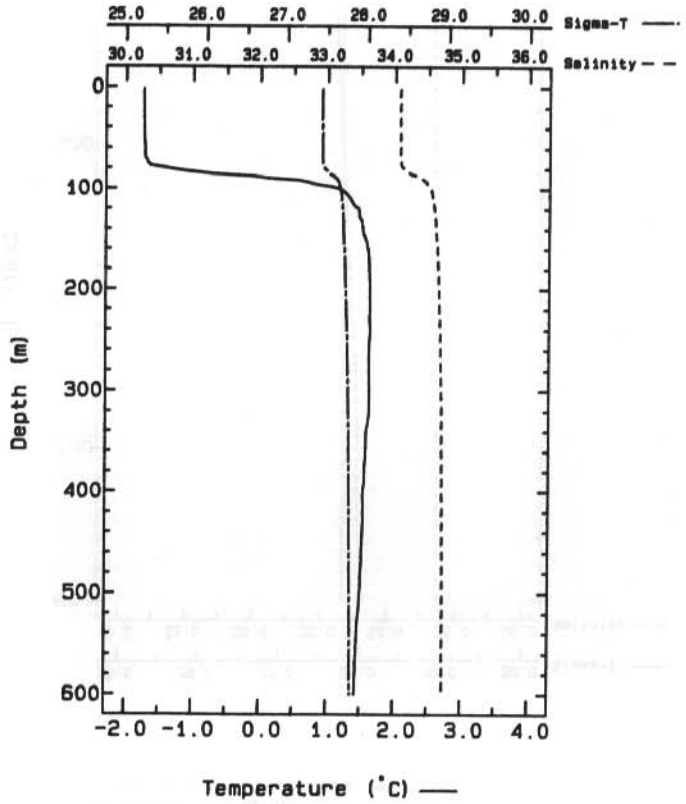

Cruise : ADBEX3 Station 28
23 OCT 1985 0457 GMT
Latitude 63: 01.20S
Longitude 53: 42.87E
Depth: CTD 1002 m Bottom NR



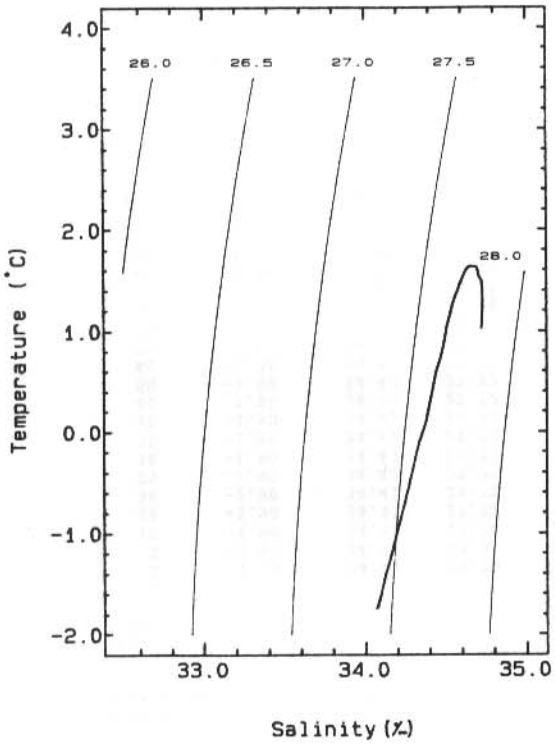
Cruise : ADBEX3
Station number : 29
Date : 24 OCT 1985
Start Time : 1346 GMT
Ship : NELLA DAN
Position : 64:00.77S 53:04.32E
Cast Depth (m) : 1002
Bottom Depth (m) : Not Recorded

| Depth d bar | Temperature (deg C) | Salinity | Sigma-T |
|---|---|---|---|
| 0 | | | |
| 2 | -1.74 | 34.07 | 27.42 |
| 5 | -1.74 | 34.07 | 27.42 |
| 10 | -1.74 | 34.07 | 27.42 |
| 15 | -1.74 | 34.07 | 27.43 |
| 20 | -1.74 | 34.07 | 27.42 |
| 25 | -1.73 | 34.07 | 27.42 |
| 30 | -1.74 | 34.07 | 27.43 |
| 35 | -1.73 | 34.07 | 27.43 |
| 40 | -1.73 | 34.07 | 27.43 |
| 45 | -1.73 | 34.08 | 27.43 |
| 50 | -1.73 | 34.08 | 27.43 |
| 60 | -1.72 | 34.08 | 27.43 |
| 70 | -1.72 | 34.08 | 27.43 |
| 75 | -1.67 | 34.09 | 27.43 |
| 80 | -1.42 | 34.12 | 27.46 |
| 90 | 0.11 | 34.38 | 27.60 |
| 100 | 1.17 | 34.53 | 27.66 |
| 125 | 1.47 | 34.60 | 27.69 |
| 150 | 1.57 | 34.62 | 27.70 |
| 175 | 1.62 | 34.64 | 27.71 |
| 200 | 1.63 | 34.66 | 27.73 |
| 250 | 1.62 | 34.68 | 27.75 |
| 300 | 1.62 | 34.70 | 27.76 |
| 400 | 1.54 | 34.71 | 27.77 |
| 500 | 1.49 | 34.72 | 27.79 |
| 600 | 1.42 | 34.73 | 27.80 |
| 700 | 1.30 | 34.73 | 27.81 |
| 800 | 1.23 | 34.73 | 27.81 |
| 900 | 1.12 | 34.72 | 27.82 |
| 1000 | 1.02 | 34.72 | 27.82 |

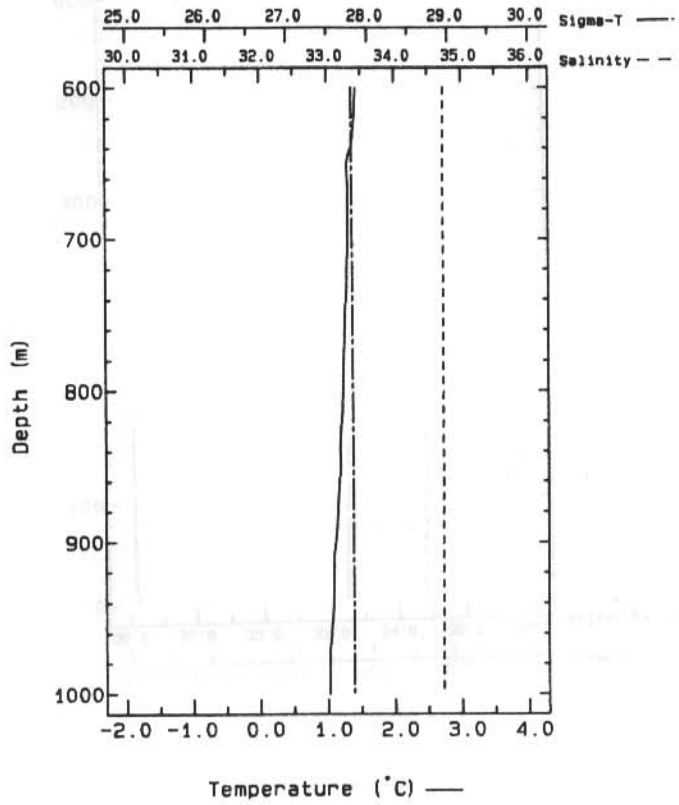
Cruise : ADBEX3 Station 29
24 OCT 1985 1346 GMT
Latitude 64:00.77S
Longitude 53:04.32E
Depth: CTD 1002 m Bottom NR



Cruise: ADBEX3 Station: 29
24 OCT 1985 1346 GMT
Latitude : 64: 00.77S
Longitude: 53: 04.32E
Depth: CTD 1002 m Bottom NR



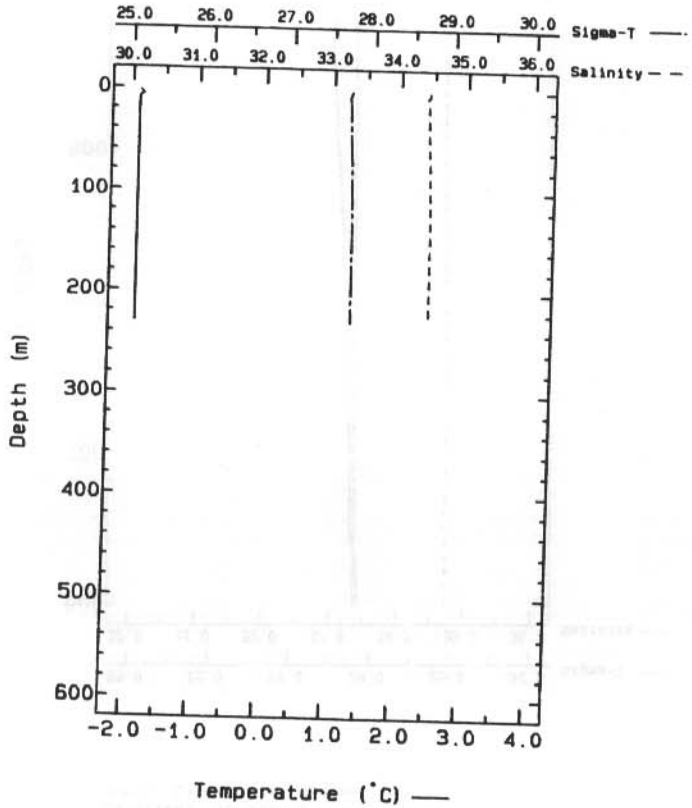

Cruise : ADBEX3 Station 29
24 OCT 1985 1346 GMT
Latitude 64: 00.77S
Longitude 53: 04.32E
Depth: CTD 1002 m Bottom NR



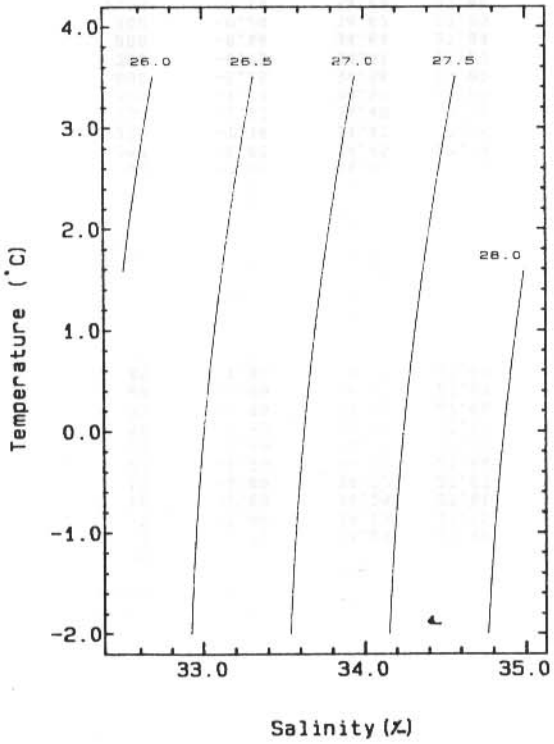
Cruise : ADBEX3
Station number : 30
Date : 27 OCT 1985
Start Time : 1442 GMT
Ship : NELLA DAN
Position : 65:55.41S 51:22.89E
Cast Depth (m) : 232
Bottom Depth (m) : Not Recorded

| Depth d bar | Temperature (deg C) | Salinity | Sigma-T |
|---|---|---|---|
| 0 | | | |
| 2 | -1.89 | 34.42 | 27.72 |
| 5 | -1.85 | 34.42 | 27.71 |
| 10 | -1.90 | 34.41 | 27.70 |
| 15 | -1.90 | 34.41 | 27.71 |
| 20 | -1.90 | 34.41 | 27.71 |
| 25 | -1.90 | 34.42 | 27.71 |
| 30 | -1.90 | 34.42 | 27.71 |
| 35 | -1.90 | 34.42 | 27.71 |
| 40 | -1.90 | 34.42 | 27.71 |
| 45 | -1.90 | 34.42 | 27.72 |
| 50 | -1.90 | 34.43 | 27.72 |
| 60 | -1.90 | 34.43 | 27.72 |
| 70 | -1.90 | 34.44 | 27.73 |
| 75 | -1.90 | 34.45 | 27.73 |
| 80 | -1.90 | 34.45 | 27.74 |
| 90 | -1.90 | 34.45 | 27.74 |
| 100 | -1.90 | 34.45 | 27.74 |
| 125 | -1.90 | 34.46 | 27.75 |
| 150 | -1.90 | 34.47 | 27.75 |
| 175 | -1.90 | 34.47 | 27.75 |
| 200 | -1.90 | 34.47 | 27.75 |

Cruise : ADBEX3 Station 30
27 OCT 1985 1442 GMT
Latitude 65:55.41S
Longitude 51:22.89E
Depth: CTD 232 m Bottom NR



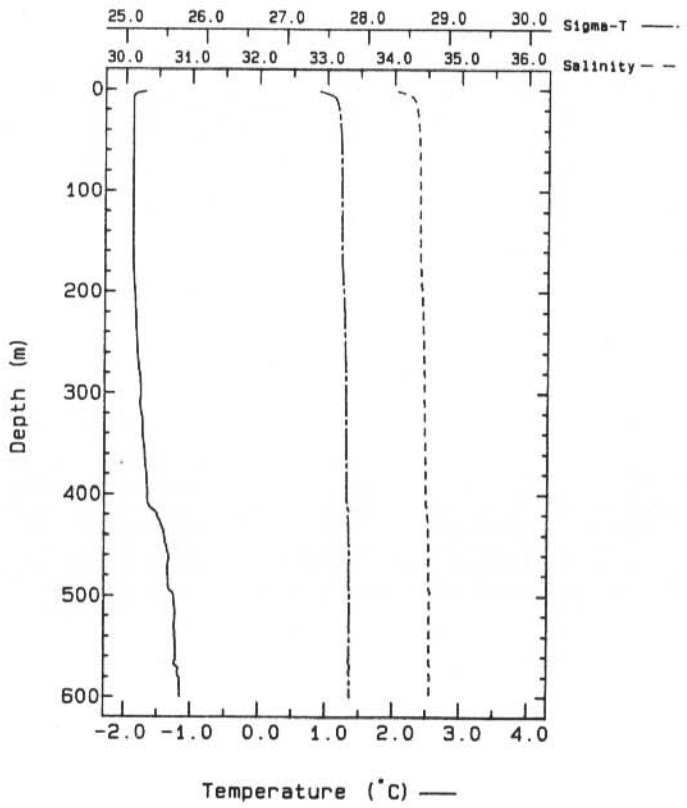
Cruise: ADBEX3 Station: 30
27 OCT 1985 1442 GMT
Latitude : 65:55.41S
Longitude: 51:22.89E
Depth: CTD 232 m Bottom NR



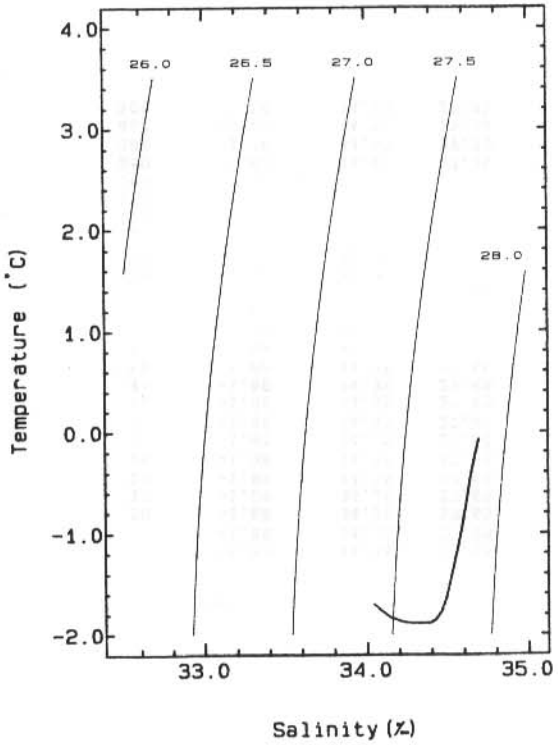
Cruise : ADBEX3
Station number : 31
Date : 30 OCT 1985
Start Time : 1310 GMT
Ship : NELLA DAN
Position : 65:59.21S 50:17.08E
Cast Depth (m) : 1264
Bottom Depth (m) : Not Recorded

| Depth d bar | Temperature (deg C) | Salinity | Sigma-T |
|---|---|---|---|
| 0 | | | |
| 2 | -1.71 | 34.04 | 27.40 |
| 5 | -1.86 | 34.19 | 27.52 |
| 10 | -1.89 | 34.29 | 27.61 |
| 15 | -1.89 | 34.32 | 27.63 |
| 20 | -1.89 | 34.33 | 27.64 |
| 25 | -1.89 | 34.35 | 27.65 |
| 30 | -1.89 | 34.35 | 27.66 |
| 35 | -1.89 | 34.36 | 27.66 |
| 40 | -1.89 | 34.37 | 27.67 |
| 45 | -1.89 | 34.37 | 27.67 |
| 50 | -1.89 | 34.38 | 27.67 |
| 60 | -1.89 | 34.38 | 27.68 |
| 70 | -1.89 | 34.38 | 27.68 |
| 75 | -1.89 | 34.39 | 27.68 |
| 80 | -1.89 | 34.38 | 27.68 |
| 90 | -1.89 | 34.39 | 27.68 |
| 100 | -1.88 | 34.39 | 27.68 |
| 125 | -1.88 | 34.39 | 27.69 |
| 150 | -1.88 | 34.39 | 27.69 |
| 175 | -1.87 | 34.40 | 27.70 |
| 200 | -1.85 | 34.42 | 27.72 |
| 250 | -1.82 | 34.45 | 27.74 |
| 300 | -1.76 | 34.47 | 27.75 |
| 400 | -1.65 | 34.49 | 27.76 |
| 500 | -1.25 | 34.55 | 27.80 |
| 600 | -1.15 | 34.56 | 27.81 |
| 700 | -0.73 | 34.61 | 27.83 |
| 800 | -0.44 | 34.64 | 27.84 |
| 900 | -0.24 | 34.67 | 27.85 |
| 1000 | -0.19 | 34.68 | 27.86 |
| 1100 | -0.11 | 34.69 | 27.86 |
| 1200 | -0.08 | 34.69 | 27.86 |

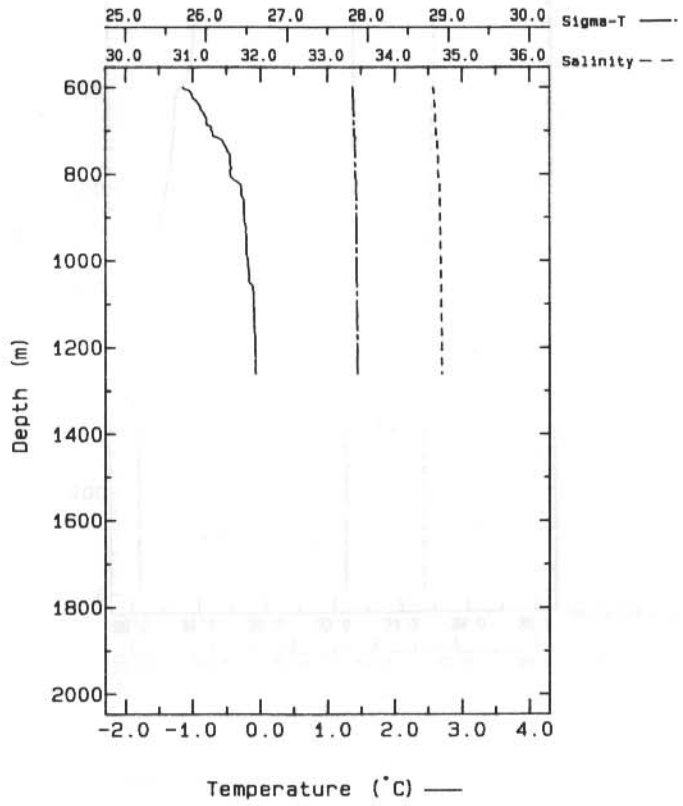
Cruise : ADBEX3 Station 31
30 OCT 1985 1310 GMT
Latitude 65:59.21S
Longitude 50:17.08E
Depth: CTD 1264 m Bottom NR



Cruise: ADBEX3 Station: 31
30 OCT 1985 1310 GMT
Latitude : 65: 59.21S
Longitude: 50: 17.08E
Depth: CTD 1264 m Bottom NR



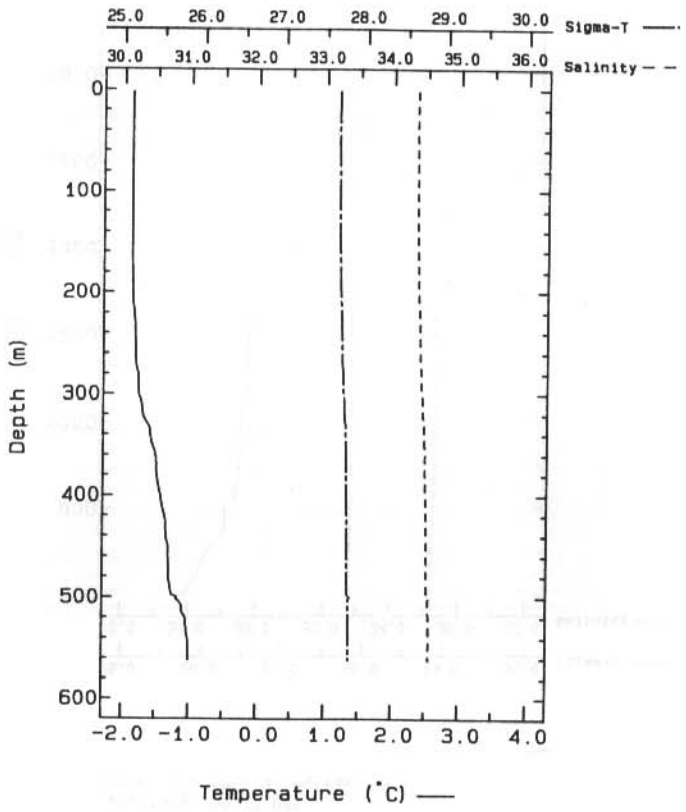

Cruise : ADBEX3 Station 31
30 OCT 1985 1310 GMT
Latitude 65: 59.21S
Longitude 50: 17.08E
Depth: CTD 1264 m Bottom NR



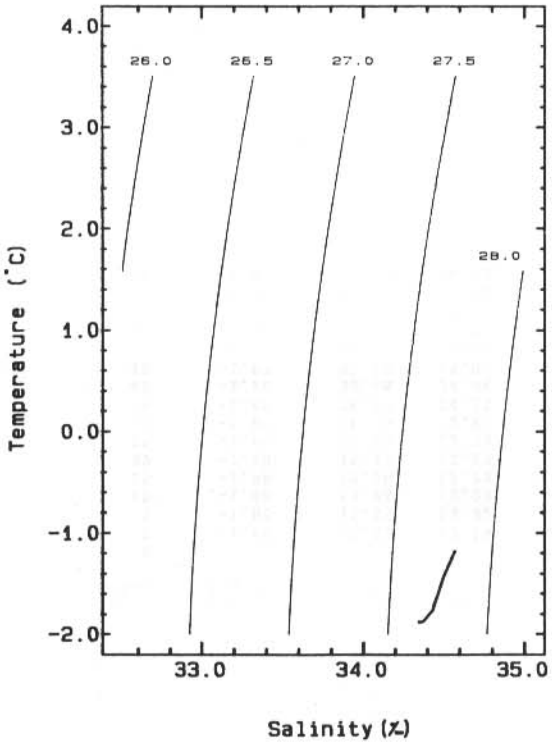
Cruise : ADBEX3
Station number : 32
Date : 4 NOV 1985
Start Time : 0538 GMT
Ship : NELLA DAN
Position : 65:52.80S 50:23.13E
Cast Depth (m) : 564
Bottom Depth (m) : Not Recorded

| Depth d bar | Temperature (deg C) | Salinity | Sigma-T |
|---|---|---|---|
| 0 | | | |
| 2 | -1.87 | 34.35 | 27.65 |
| 5 | -1.88 | 34.35 | 27.65 |
| 10 | -1.88 | 34.35 | 27.65 |
| 15 | -1.88 | 34.35 | 27.65 |
| 20 | -1.88 | 34.35 | 27.65 |
| 25 | -1.88 | 34.35 | 27.65 |
| 30 | -1.88 | 34.35 | 27.65 |
| 35 | -1.88 | 34.35 | 27.65 |
| 40 | -1.88 | 34.35 | 27.65 |
| 45 | -1.88 | 34.35 | 27.65 |
| 50 | -1.88 | 34.35 | 27.65 |
| 60 | -1.88 | 34.35 | 27.65 |
| 70 | -1.88 | 34.35 | 27.66 |
| 75 | -1.88 | 34.35 | 27.66 |
| 80 | -1.88 | 34.35 | 27.66 |
| 90 | -1.88 | 34.35 | 27.66 |
| 100 | -1.88 | 34.35 | 27.66 |
| 125 | -1.88 | 34.36 | 27.66 |
| 150 | -1.88 | 34.36 | 27.66 |
| 175 | -1.87 | 34.37 | 27.67 |
| 200 | -1.87 | 34.38 | 27.68 |
| 250 | -1.82 | 34.41 | 27.70 |
| 300 | -1.76 | 34.43 | 27.72 |
| 400 | -1.43 | 34.50 | 27.76 |
| 500 | -1.18 | 34.57 | 27.81 |

Cruise : ADBEX3 Station 32
04 NOV 1985 0538 GMT
Latitude 65: 52.80S
Longitude 50: 23.13E
Depth: CTD 564 m Bottom NR



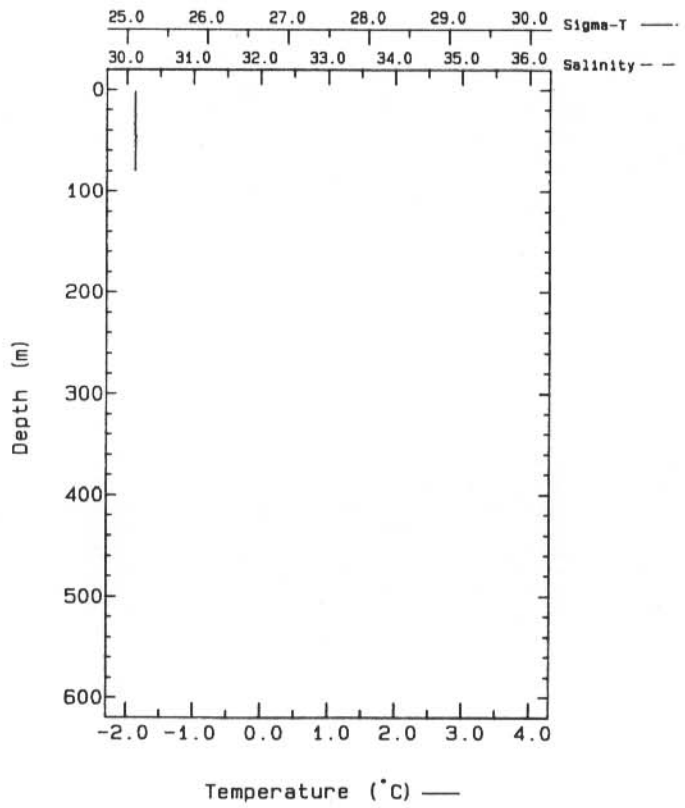
Cruise: ADBEX3 Station: 32
04 NOV 1985 0538 GMT
Latitude : 65:52.80S
Longitude: 50:23.13E
Depth: CTD 564 m Bottom NR



Cruise : ADBEX3
Station number : 33
Date : 4 NOV 1985
Start Time : 0713 GMT
Ship : NELLA DAN
Position : 65:53.62S 50:23.12E
Cast Depth (m) : 82
Bottom Depth (m) : Not Recorded

| Depth d bar | Temperature (deg C) | Salinity | Sigma-T |
|---|---|---|---|
| 0 | | | |
| 2 | -1.88 | 15.32 | 12.19 |
| 5 | -1.88 | 15.35 | 12.22 |
| 10 | -1.88 | 15.36 | 12.23 |
| 15 | -1.88 | 15.36 | 12.22 |
| 20 | -1.88 | 15.37 | 12.23 |
| 25 | -1.88 | 15.37 | 12.23 |
| 30 | -1.88 | 16.09 | 12.82 |
| 35 | -1.88 | 30.17 | 24.25 |
| 40 | -1.88 | 30.66 | 24.66 |
| 45 | -1.87 | 31.09 | 25.00 |
| 50 | -1.87 | 31.43 | 25.28 |
| 60 | -1.87 | 31.98 | 25.73 |
| 70 | -1.87 | 32.35 | 26.03 |
| 75 | -1.87 | 32.50 | 26.15 |
| 80 | -1.87 | 33.53 | 26.99 |

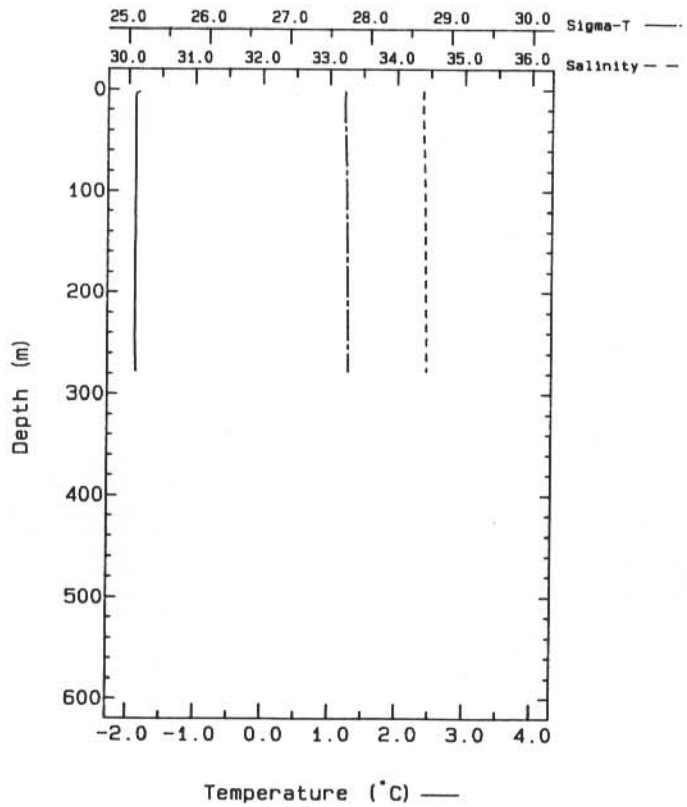
Cruise : ADBEX3 Station 33
04 NOV 1985 0713 GMT
Latitude 65:53.62S
Longitude 50:23.12E
Depth: CTD 82 m Bottom NR



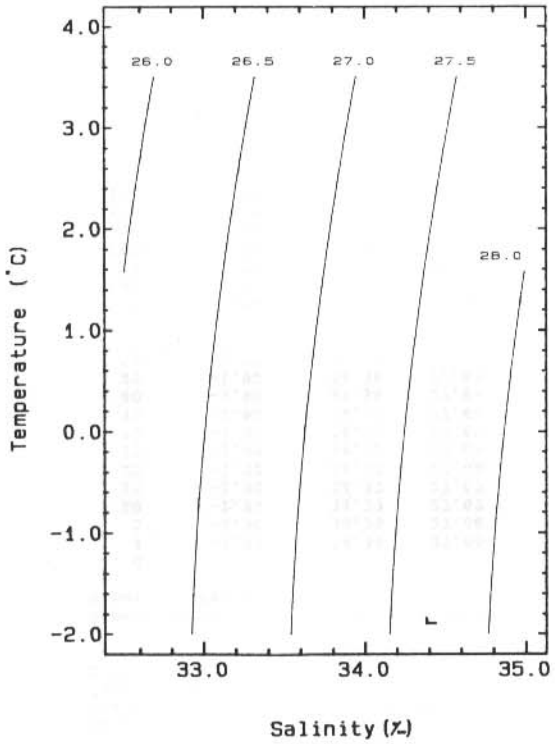
Cruise : ADBEX3
Station number : 34
Date : 6 NOV 1985
Start Time : 1648 GMT
Ship : NELLA DAN
Position : 66:06.09S 49:48.74E
Cast Depth (m) : 280
Bottom Depth (m) : Not Recorded

| Depth d bar | Temperature (deg C) | Salinity | Sigma-T |
|---|---|---|---|
| 0 | | | |
| 2 | -1.84 | 34.38 | 27.68 |
| 5 | -1.89 | 34.38 | 27.68 |
| 10 | -1.90 | 34.38 | 27.68 |
| 15 | -1.90 | 34.38 | 27.68 |
| 20 | -1.90 | 34.38 | 27.68 |
| 25 | -1.90 | 34.38 | 27.68 |
| 30 | -1.90 | 34.38 | 27.68 |
| 35 | -1.90 | 34.39 | 27.69 |
| 40 | -1.90 | 34.40 | 27.69 |
| 45 | -1.89 | 34.40 | 27.69 |
| 50 | -1.89 | 34.40 | 27.70 |
| 60 | -1.89 | 34.40 | 27.70 |
| 70 | -1.89 | 34.41 | 27.70 |
| 75 | -1.89 | 34.41 | 27.70 |
| 80 | -1.89 | 34.41 | 27.71 |
| 90 | -1.89 | 34.41 | 27.71 |
| 100 | -1.89 | 34.42 | 27.71 |
| 125 | -1.89 | 34.42 | 27.71 |
| 150 | -1.89 | 34.43 | 27.72 |
| 175 | -1.90 | 34.43 | 27.72 |
| 200 | -1.89 | 34.44 | 27.73 |
| 250 | -1.89 | 34.45 | 27.74 |

Cruise : ADBEX3 Station 34
06 NOV 1985 1648 GMT
Latitude 66: 06.09S
Longitude 49: 48.74E
Depth: CTD 280 m Bottom NR



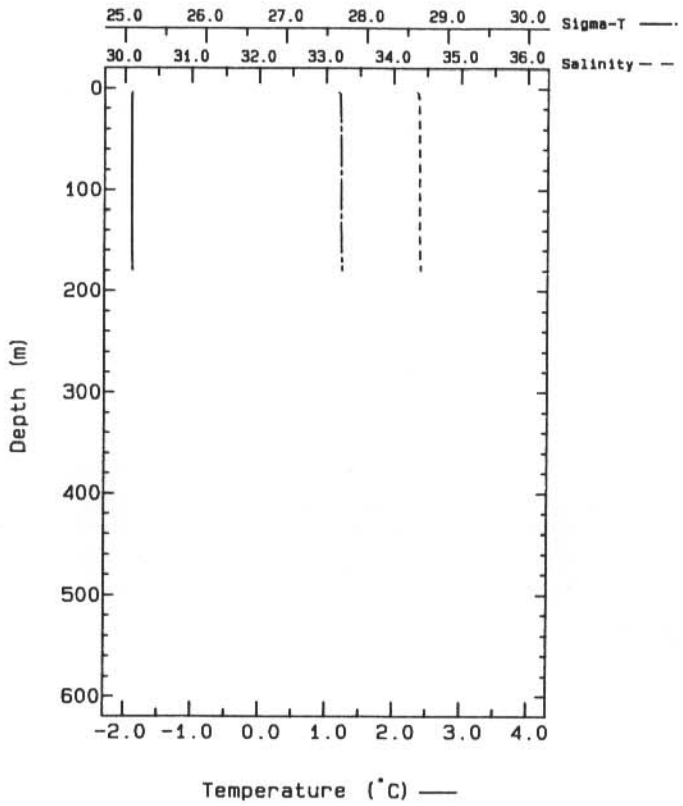
Cruise: ADBEX3 Station: 34
06 NOV 1985 1648 GMT
Latitude : 66: 06.09S
Longitude: 49: 48.74E
Depth: CTD 280 m Bottom NA



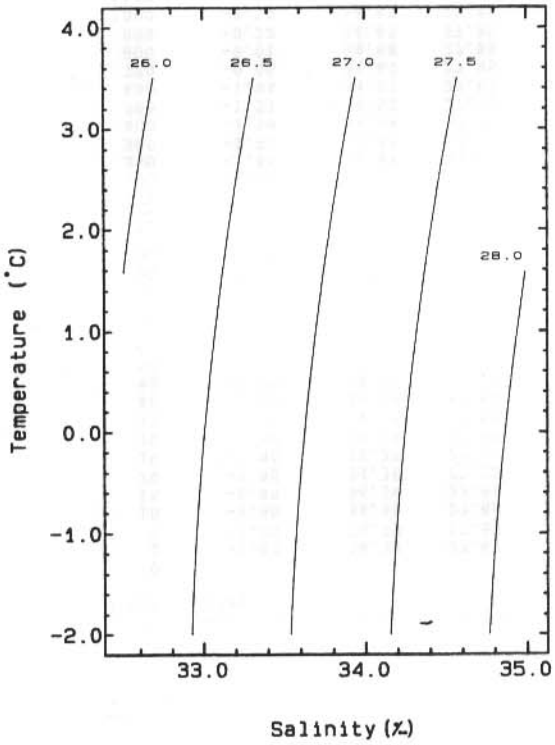
Cruise : ADBEX3
Station number : 35
Date : 9 NOV 1985
Start Time : 0723 GMT
Ship : NELLA DAN
Position : 65:54.87S 50:04.58E
Cast Depth (m) : 182
Bottom Depth (m) : Not Recorded

| Depth d bar | Temperature (deg C) | Salinity | Sigma-T |
|---|---|---|---|
| 0 | | | |
| 4 | -1.89 | 34.34 | 27.65 |
| 5 | -1.90 | 34.35 | 27.66 |
| 10 | -1.90 | 34.37 | 27.67 |
| 15 | -1.90 | 34.37 | 27.67 |
| 20 | -1.90 | 34.38 | 27.68 |
| 25 | -1.90 | 34.38 | 27.68 |
| 30 | -1.90 | 34.38 | 27.68 |
| 35 | -1.90 | 34.38 | 27.68 |
| 40 | -1.90 | 34.38 | 27.68 |
| 45 | -1.90 | 34.38 | 27.68 |
| 50 | -1.90 | 34.38 | 27.68 |
| 60 | -1.90 | 34.38 | 27.68 |
| 70 | -1.90 | 34.38 | 27.68 |
| 75 | -1.90 | 34.38 | 27.68 |
| 80 | -1.90 | 34.38 | 27.68 |
| 90 | -1.90 | 34.38 | 27.68 |
| 100 | -1.90 | 34.38 | 27.68 |
| 125 | -1.90 | 34.39 | 27.69 |
| 150 | -1.89 | 34.39 | 27.69 |
| 175 | -1.88 | 34.40 | 27.70 |

Cruise : ADBEX3 Station 35
09 NOV 1985 0723 GMT
Latitude 65: 54.87S
Longitude 50: 04.58E
Depth: CTD 182 m Bottom NR



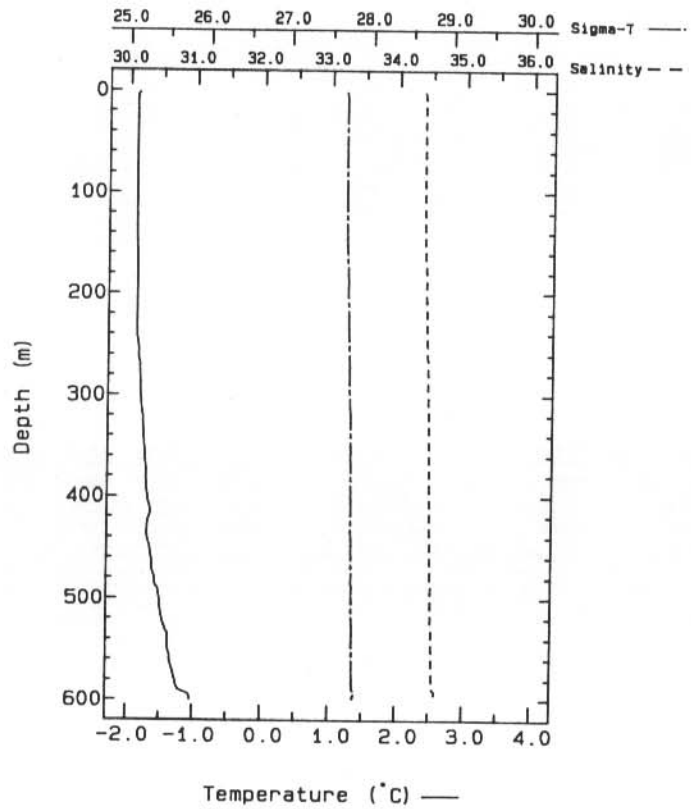
Cruise: ADBEX3 Station: 35
09 NOV 1985 0723 GMT
Latitude : 65: 54.87S
Longitude: 50: 04.58E
Depth: CTD 182 m Bottom NR



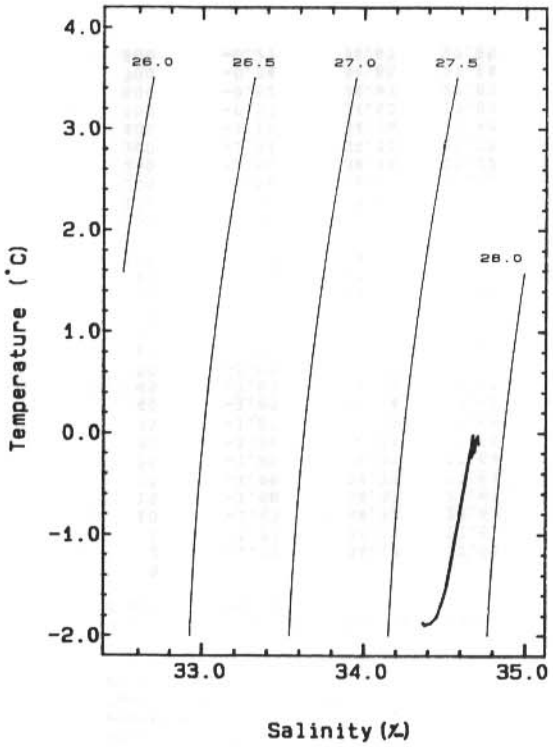
Cruise : ADBEX3
Station number : 36
Date : 9 NOV 1985
Start Time : 0737 GMT
Ship : NELLA DAN
Position : 65:54.80S 50:04.67E
Cast Depth (m) : 1640
Bottom Depth (m) : Not Recorded

| Depth d bar | Temperature (deg C) | Salinity | Sigma-T |
|---|---|---|---|
| 0 | | | |
| 2 | -1.87 | 34.37 | 27.67 |
| 5 | -1.89 | 34.38 | 27.68 |
| 10 | -1.90 | 34.38 | 27.68 |
| 15 | -1.90 | 34.38 | 27.68 |
| 20 | -1.90 | 34.38 | 27.68 |
| 25 | -1.90 | 34.38 | 27.68 |
| 30 | -1.90 | 34.38 | 27.68 |
| 35 | -1.90 | 34.38 | 27.68 |
| 40 | -1.90 | 34.38 | 27.68 |
| 45 | -1.90 | 34.38 | 27.68 |
| 50 | -1.90 | 34.38 | 27.68 |
| 60 | -1.90 | 34.38 | 27.68 |
| 70 | -1.90 | 34.38 | 27.68 |
| 75 | -1.90 | 34.38 | 27.68 |
| 80 | -1.89 | 34.38 | 27.68 |
| 90 | -1.90 | 34.38 | 27.68 |
| 100 | -1.90 | 34.38 | 27.68 |
| 125 | -1.89 | 34.39 | 27.68 |
| 150 | -1.89 | 34.39 | 27.69 |
| 175 | -1.88 | 34.41 | 27.70 |
| 200 | -1.88 | 34.41 | 27.71 |
| 250 | -1.86 | 34.44 | 27.73 |
| 300 | -1.82 | 34.45 | 27.74 |
| 400 | -1.70 | 34.48 | 27.76 |
| 500 | -1.51 | 34.51 | 27.78 |
| 600 | -1.04 | 34.57 | 27.81 |
| 700 | -0.05 | 34.67 | 27.85 |
| 800 | -0.01 | 34.68 | 27.85 |
| 900 | -0.22 | 34.67 | 27.85 |
| 1000 | -0.19 | 34.67 | 27.85 |
| 1100 | -0.19 | 34.69 | 27.86 |
| 1200 | -0.06 | 34.70 | 27.87 |
| 1300 | -0.04 | 34.71 | 27.87 |
| 1400 | -0.06 | 34.71 | 27.87 |
| 1500 | -0.10 | 34.71 | 27.88 |

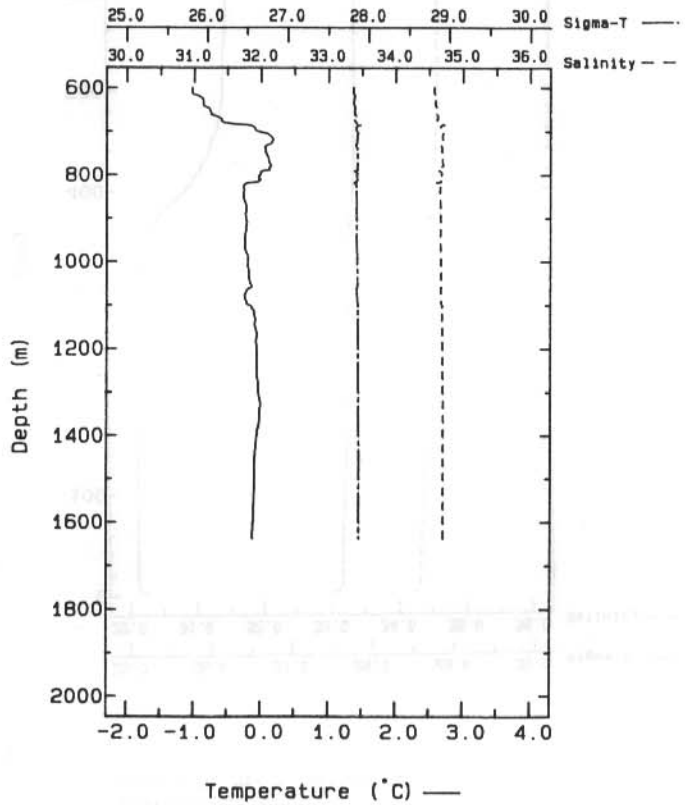
Cruise : ADBEX3 Station 36
09 NOV 1985 0737 GMT
Latitude 65:54.80S
Longitude 50:04.67E
Depth: CTD 1640 m Bottom NR



Cruise: ADBEX3 Station: 36
09 NOV 1985 0737 GMT
Latitude : 65:54.80S
Longitude: 50:04.67E
Depth: CTD 1640 m Bottom NR



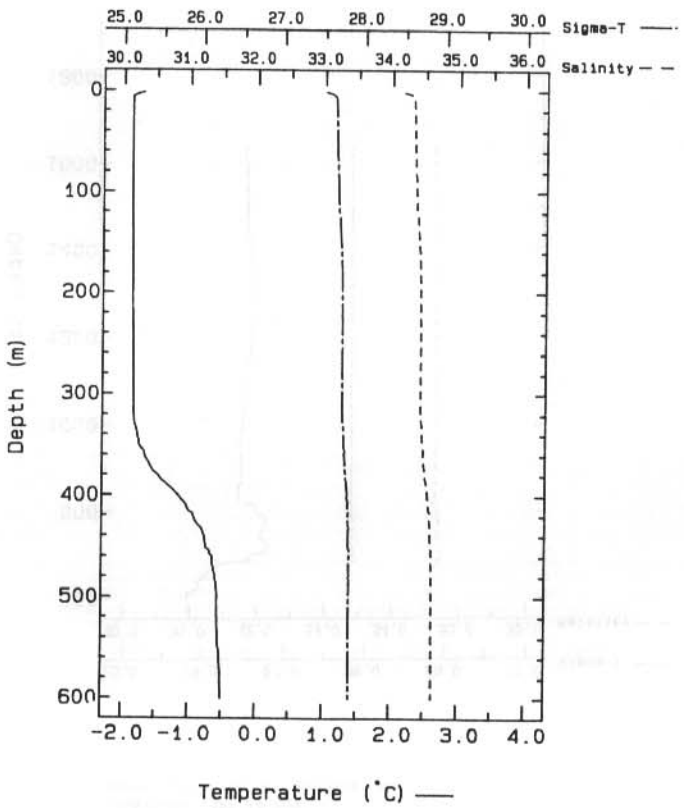

Cruise : ADBEX3 Station 36
09 NOV 1985 0737 GMT
Latitude 65:54.80S
Longitude 50:04.67E
Depth: CTD 1640 m Bottom NR



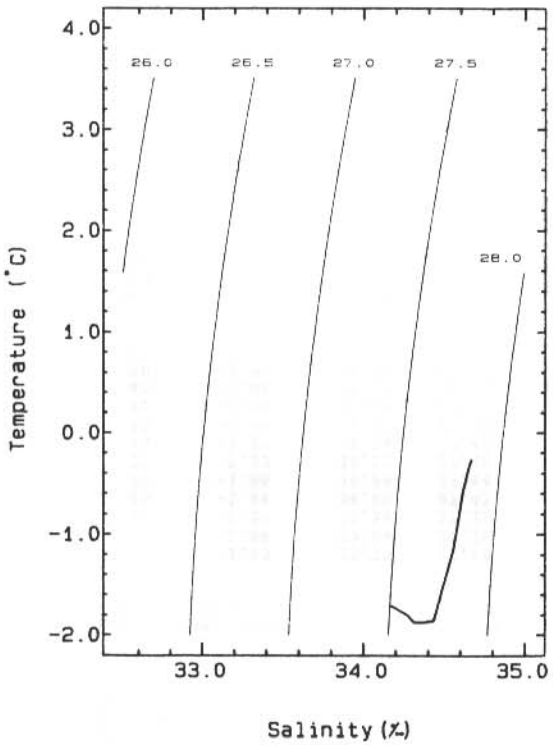
Cruise : ADBEX3
Station number : 37
Date : 19 NOV 1985
Start Time : 1313 GMT
Ship : NELLA DAN
Position : 65:50.88S 50:33.91E
Cast Depth (m) : 862
Bottom Depth (m) : Not Recorded

| Depth d bar | Temperature (deg C) | Salinity | Sigma-T |
|---|---|---|---|
| 0 | | | |
| 2 | -1.71 | 34.17 | 27.51 |
| 5 | -1.83 | 34.29 | 27.61 |
| 10 | -1.87 | 34.32 | 27.63 |
| 15 | -1.88 | 34.33 | 27.63 |
| 20 | -1.88 | 34.33 | 27.64 |
| 25 | -1.88 | 34.33 | 27.64 |
| 30 | -1.88 | 34.33 | 27.64 |
| 35 | -1.87 | 34.33 | 27.64 |
| 40 | -1.87 | 34.34 | 27.64 |
| 45 | -1.87 | 34.34 | 27.64 |
| 50 | -1.87 | 34.34 | 27.65 |
| 60 | -1.87 | 34.34 | 27.65 |
| 70 | -1.87 | 34.35 | 27.65 |
| 75 | -1.87 | 34.35 | 27.65 |
| 80 | -1.87 | 34.35 | 27.66 |
| 90 | -1.87 | 34.36 | 27.66 |
| 100 | -1.87 | 34.36 | 27.66 |
| 125 | -1.87 | 34.39 | 27.69 |
| 150 | -1.86 | 34.41 | 27.70 |
| 175 | -1.86 | 34.43 | 27.72 |
| 200 | -1.86 | 34.43 | 27.72 |
| 250 | -1.85 | 34.44 | 27.72 |
| 300 | -1.84 | 34.44 | 27.73 |
| 400 | -1.16 | 34.56 | 27.80 |
| 500 | -0.57 | 34.62 | 27.83 |
| 600 | -0.51 | 34.63 | 27.83 |
| 700 | -0.34 | 34.65 | 27.84 |
| 800 | -0.27 | 34.67 | 27.85 |

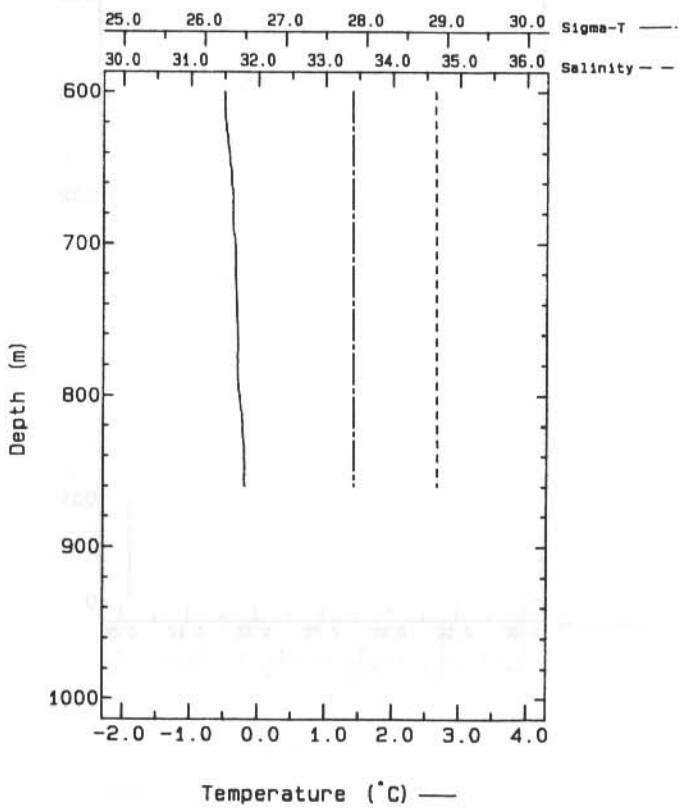
Cruise : ADBEX3 Station 37
19 NOV 1985 1313 GMT
Latitude 65: 50.88S
Longitude 50: 33.91E
Depth: CTD 862 m Bottom NR



Cruise: ADBEX3 Station: 37
19 NOV 1985 1313 GMT
Latitude : 65: 50.88S
Longitude: 50: 33.91E
Depth: CTD 862 m Bottom NR



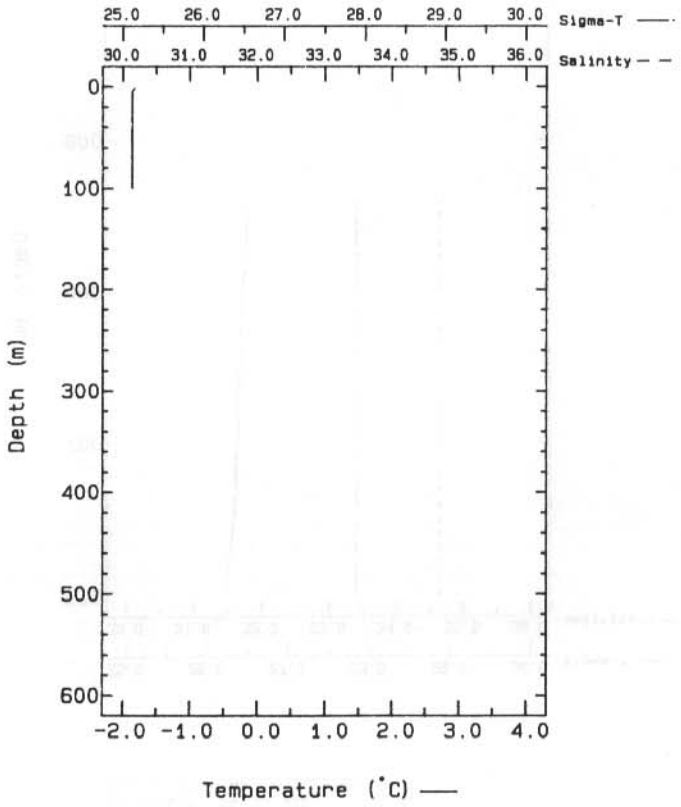

Cruise : ADBEX3 Station 37
19 NOV 1985 1313 GMT
Latitude 65: 50.88S
Longitude 50: 33.91E
Depth: CTD 862 m Bottom NR



Cruise : ADBEX3
Station number : 38
Date : 19 NOV 1985
Start Time : 1421 GMT
Ship : NELLA DAN
Position : 65:50.49S 50:33.32E
Cast Depth (m) : 102
Bottom Depth (m) : Not Recorded

| Depth d bar | Temperature (deg C) | Salinity | Sigma-T |
|---|---|---|---|
| 0 | | | |
| 2 | -1.83 | 33.77 | 27.18 |
| 5 | -1.86 | 33.89 | 27.28 |
| 10 | -1.86 | 33.99 | 27.36 |
| 15 | -1.86 | 34.05 | 27.41 |
| 20 | -1.86 | 34.09 | 27.44 |
| 25 | -1.87 | 34.12 | 27.46 |
| 30 | -1.87 | 34.14 | 27.48 |
| 35 | -1.86 | 34.15 | 27.49 |
| 40 | -1.86 | 34.16 | 27.50 |
| 45 | -1.86 | 34.18 | 27.51 |
| 50 | -1.86 | 34.19 | 27.52 |
| 60 | -1.86 | 34.20 | 27.53 |
| 70 | -1.86 | 34.23 | 27.55 |
| 75 | -1.86 | 34.23 | 27.56 |
| 80 | -1.87 | 34.24 | 27.57 |
| 90 | -1.86 | 34.26 | 27.58 |
| 100 | -1.86 | 34.27 | 27.59 |

Cruise : ADBEX3 Station 38
19 NOV 1985 1421 GMT
Latitude 65: 50.49S
Longitude 50: 33.32E
Depth: CTD 102 m Bottom NR

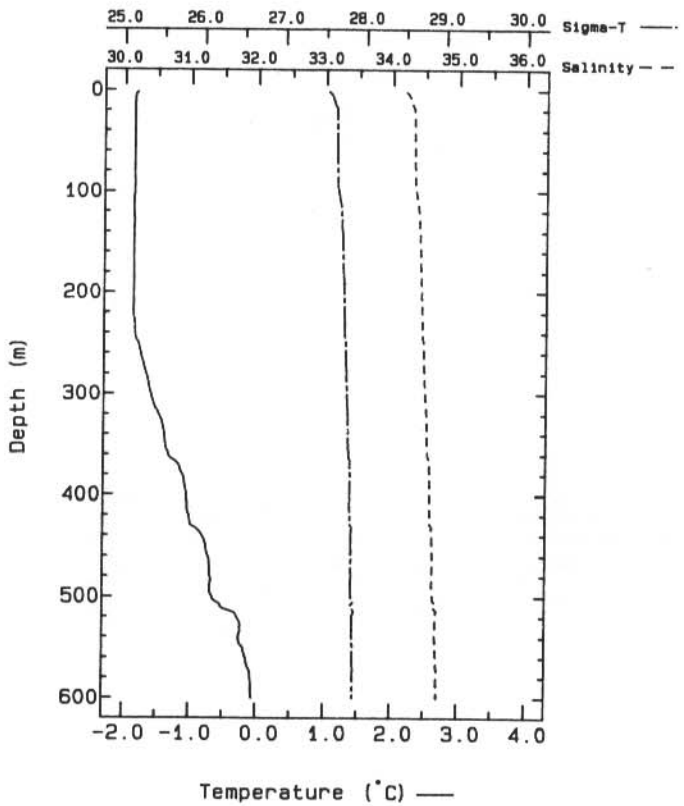


0.02
0.01
0
0000
2000
4000

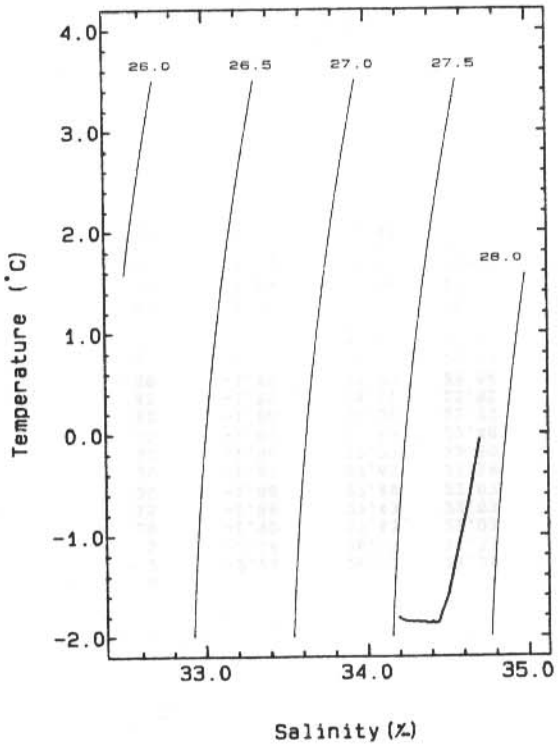
Cruise : ADBEX3
Station number : 39
Date : 22 NOV 1985
Start Time : 0702 GMT
Ship : NELLA DAN
Position : 65:47.80S 50:46.28E
Cast Depth (m) : 690
Bottom Depth (m) : Not Recorded

| Depth d bar | Temperature (deg C) | Salinity | Sigma-T |
|---|---|---|---|
| 0 | | | |
| 2 | -1.82 | 34.19 | 27.53 |
| 5 | -1.85 | 34.24 | 27.56 |
| 10 | -1.85 | 34.27 | 27.59 |
| 15 | -1.85 | 34.29 | 27.61 |
| 20 | -1.85 | 34.32 | 27.63 |
| 25 | -1.85 | 34.33 | 27.63 |
| 30 | -1.85 | 34.32 | 27.63 |
| 35 | -1.85 | 34.33 | 27.63 |
| 40 | -1.86 | 34.33 | 27.63 |
| 45 | -1.86 | 34.33 | 27.63 |
| 50 | -1.86 | 34.33 | 27.64 |
| 60 | -1.86 | 34.33 | 27.64 |
| 70 | -1.86 | 34.33 | 27.64 |
| 75 | -1.86 | 34.33 | 27.64 |
| 80 | -1.86 | 34.33 | 27.64 |
| 90 | -1.85 | 34.34 | 27.64 |
| 100 | -1.85 | 34.35 | 27.66 |
| 125 | -1.86 | 34.40 | 27.70 |
| 150 | -1.87 | 34.42 | 27.71 |
| 175 | -1.86 | 34.43 | 27.72 |
| 200 | -1.86 | 34.44 | 27.73 |
| 250 | -1.78 | 34.48 | 27.75 |
| 300 | -1.59 | 34.50 | 27.77 |
| 400 | -1.05 | 34.58 | 27.81 |
| 500 | -0.66 | 34.63 | 27.84 |
| 600 | -0.06 | 34.70 | 27.87 |

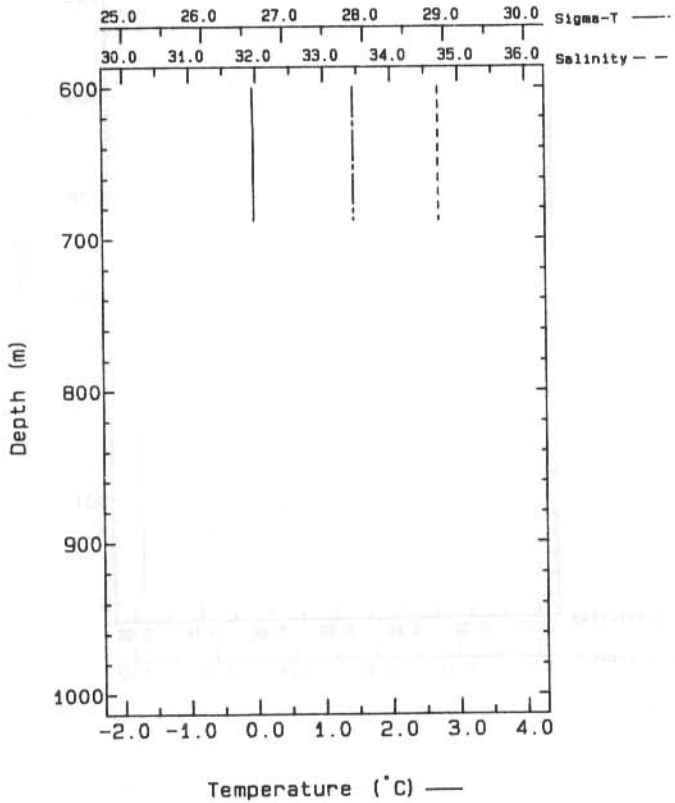
Cruise : ADBEX3 Station 39
22 NOV 1985 0702 GMT
Latitude 65: 47.80S
Longitude 50: 46.28E
Depth: CTD 690 m Bottom NR



Cruise: ADBEX3 Station: 39
22 NOV 1985 0702 GMT
Latitude : 65: 47.80S
Longitude: 50: 46.28E
Depth: CTD 690 m Bottom NR



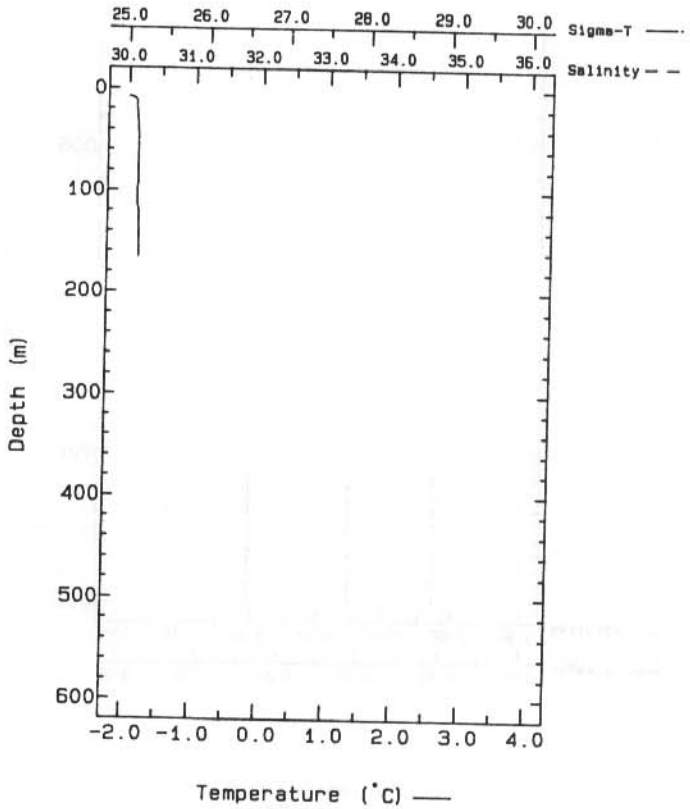

Cruise : ADBEX3 Station 39
22 NOV 1985 0702 GMT
Latitude 65: 47.80S
Longitude 50: 46.28E
Depth: CTD 690 m Bottom NR



Cruise : ADBEX3
Station number : 41
Date : 22 NOV 1985
Start Time : 0800 GMT
Ship : NELLA DAN
Position : 65:47.75S 50:46.38E
Cast Depth (m) : 168
Bottom Depth (m) : Not Recorded

| Depth d bar | Temperature (deg C) | Salinity | Sigma-T |
|---|---|---|---|
| 0 | | | |
| 2 | -2.23 | 26.52 | 21.29 |
| 5 | -2.14 | 26.55 | 21.31 |
| 10 | -1.90 | 27.43 | 22.03 |
| 15 | -1.88 | 27.43 | 22.03 |
| 20 | -1.88 | 27.48 | 22.07 |
| 25 | -1.87 | 27.63 | 22.19 |
| 30 | -1.86 | 27.77 | 22.30 |
| 35 | -1.86 | 27.88 | 22.40 |
| 40 | -1.86 | 28.28 | 22.72 |
| 45 | -1.85 | 28.51 | 22.91 |
| 50 | -1.85 | 28.70 | 23.06 |
| 60 | -1.85 | 32.55 | 26.19 |
| 70 | -1.85 | 33.40 | 26.88 |
| 75 | -1.85 | 33.43 | 26.90 |
| 80 | -1.85 | 33.52 | 26.98 |
| 90 | -1.85 | 33.56 | 27.01 |
| 100 | -1.86 | 33.62 | 27.06 |
| 125 | -1.83 | 33.87 | 27.27 |
| 150 | -1.83 | 33.93 | 27.31 |

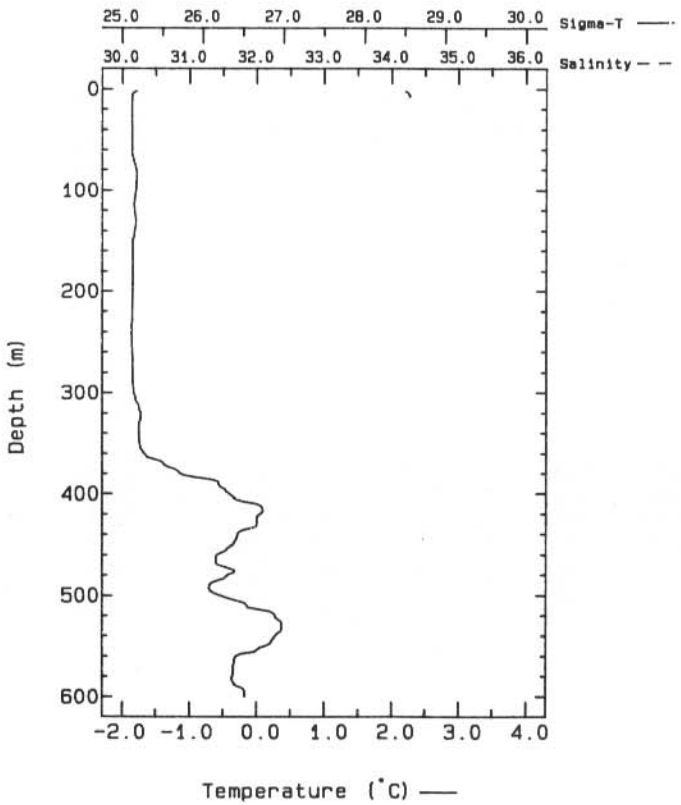
Cruise : ADBEX3 Station 41
22 NOV 1985 0800 GMT
Latitude 65: 47.75S
Longitude 50: 46.38E
Depth: CTD 168 m Bottom NR



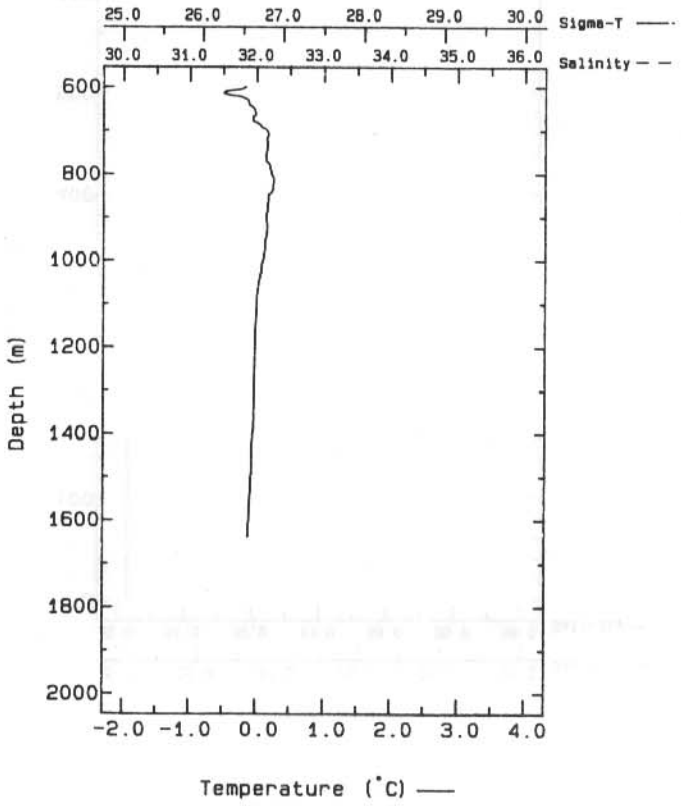
Cruise : ADBEX3
Station number : 42
Date : 25 NOV 1985
Start Time : 0905 GMT
Ship : NELLA DAN
Position : 65:39.55S 51:11.46E
Cast Depth (m) : 1640
Bottom Depth (m) : Not Recorded

| Depth d bar | Temperature (deg C) | Salinity | Sigma-T |
|---|---|---|---|
| 0 | | | |
| 2 | -1.79 | 34.20 | 27.53 |
| 5 | -1.85 | 34.26 | 27.58 |
| 10 | -1.86 | 34.29 | 27.60 |
| 15 | -1.86 | 34.32 | 27.63 |
| 20 | -1.86 | 34.37 | 27.67 |
| 25 | -1.86 | 34.52 | 27.79 |
| 30 | -1.86 | 34.69 | 27.93 |
| 35 | -1.86 | 34.83 | 28.04 |
| 40 | -1.86 | 34.85 | 28.06 |
| 45 | -1.86 | 34.86 | 28.07 |
| 50 | -1.86 | 34.87 | 28.08 |
| 60 | -1.85 | 34.89 | 28.09 |
| 70 | -1.83 | 34.92 | 28.11 |
| 75 | -1.81 | 34.94 | 28.14 |
| 80 | -1.79 | 34.97 | 28.15 |
| 90 | -1.79 | 34.99 | 28.17 |
| 100 | -1.80 | 35.01 | 28.18 |
| 125 | -1.81 | 35.05 | 28.22 |
| 150 | -1.85 | 35.07 | 28.24 |
| 175 | -1.85 | 35.09 | 28.26 |
| 200 | -1.85 | 35.11 | 28.27 |
| 250 | -1.86 | 35.13 | 28.29 |
| 300 | -1.83 | 35.16 | 28.31 |
| 400 | -0.41 | 35.32 | 28.39 |
| 500 | -0.56 | 35.34 | 28.41 |
| 600 | -0.17 | 35.36 | 28.41 |
| 700 | 0.15 | 35.42 | 28.43 |
| 800 | 0.22 | 35.43 | 28.44 |
| 900 | 0.14 | 35.43 | 28.44 |
| 1000 | 0.09 | 35.42 | 28.44 |
| 1100 | 0.00 | 35.42 | 28.45 |
| 1200 | -0.03 | 35.42 | 28.45 |
| 1300 | -0.04 | 35.42 | 28.45 |
| 1400 | -0.06 | 35.42 | 28.45 |
| 1500 | -0.08 | 35.43 | 28.46 |

Cruise : ADBEX3 Station 42
25 NOV 1985 0905 GMT
Latitude 65: 39.55S
Longitude 51: 11.46E
Depth: CTD 1640 m Bottom NR



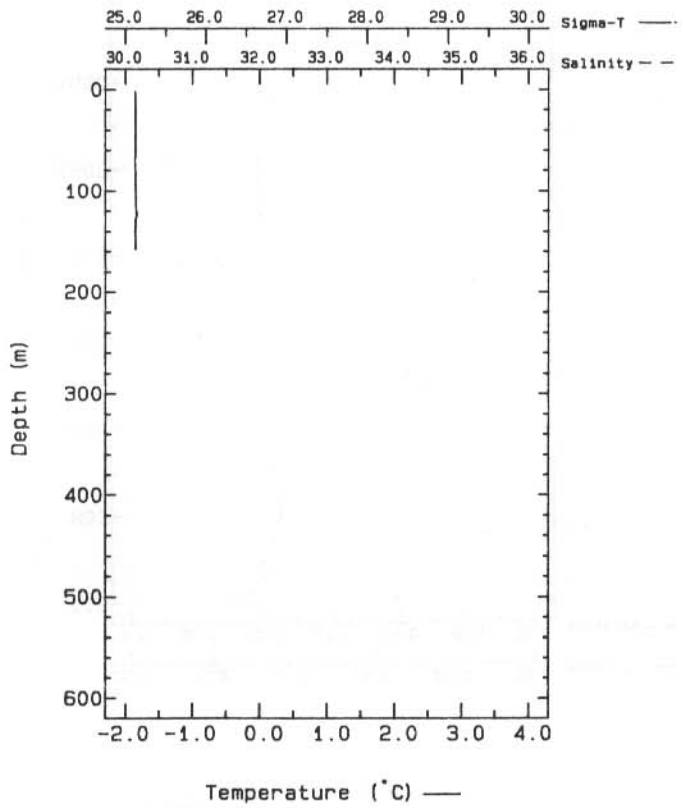
Cruise : ADBEX3 Station 42
25 NOV 1985 0905 GMT
Latitude 65: 39.55S
Longitude 51: 11.46E
Depth: CTD 1640 m Bottom NR



Cruise : ADBEX3
Station number : 43
Date : 25 NOV 1985
Start Time : 1308 GMT
Ship : NELLA DAN
Position : 65:40.61S 51:11.35E
Cast Depth (m) : 160
Bottom Depth (m) : Not Recorded

| Depth d bar | Temperature (deg C) | Salinity | Sigma-T |
|---|---|---|---|
| 0 | | | |
| 2 | -1.86 | 32.21 | 25.91 |
| 5 | -1.85 | 32.82 | 26.41 |
| 10 | -1.85 | 33.37 | 26.86 |
| 15 | -1.85 | 33.55 | 27.00 |
| 20 | -1.85 | 33.72 | 27.15 |
| 25 | -1.85 | 33.78 | 27.19 |
| 30 | -1.85 | 33.81 | 27.21 |
| 35 | -1.85 | 33.87 | 27.26 |
| 40 | -1.85 | 33.93 | 27.31 |
| 45 | -1.85 | 33.98 | 27.35 |
| 50 | -1.85 | 34.02 | 27.39 |
| 60 | -1.85 | 34.07 | 27.43 |
| 70 | -1.86 | 34.13 | 27.48 |
| 75 | -1.86 | 34.17 | 27.51 |
| 80 | -1.85 | 34.20 | 27.53 |
| 90 | -1.85 | 34.28 | 27.60 |
| 100 | -1.84 | 34.39 | 27.68 |
| 125 | -1.83 | 35.08 | 28.24 |
| 150 | -1.85 | 35.10 | 28.26 |

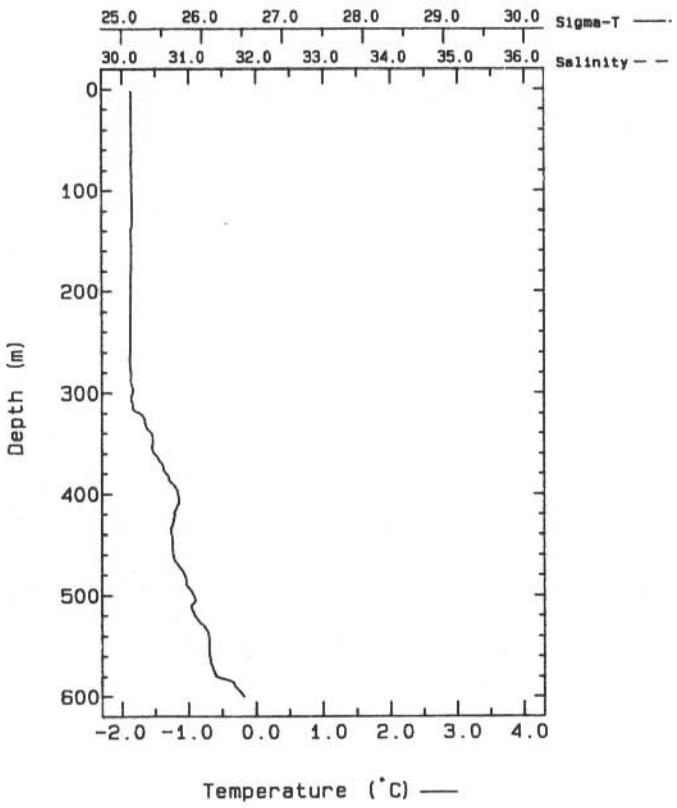
Cruise : ADBEX3 Station 43
25 NOV 1985 1308 GMT
Latitude 65: 40.61S
Longitude 51: 11.35E
Depth: CTD 160 m Bottom NR



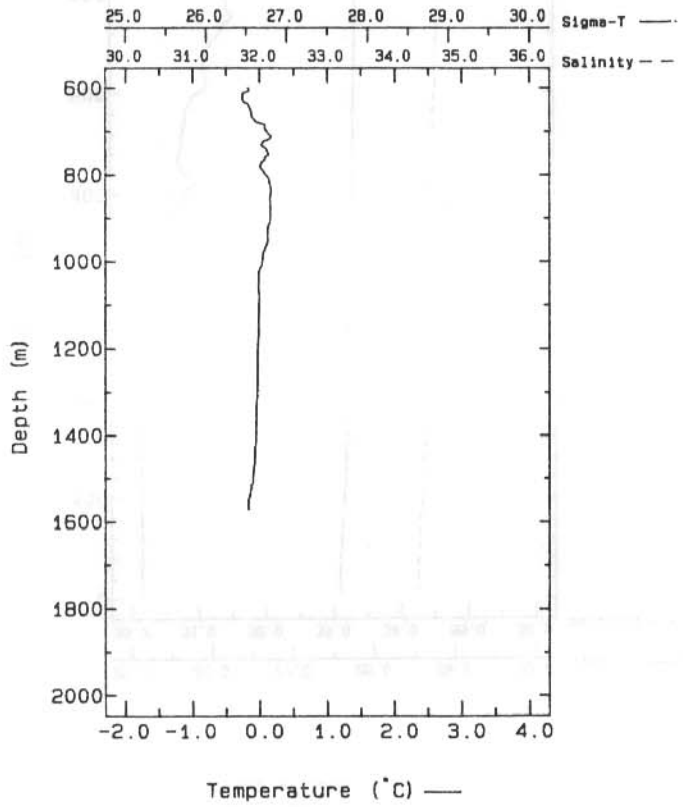
Cruise : ADBEX3
Station number : 44
Date : 25 NOV 1985
Start Time : 1315 GMT
Ship : NELLA DAN
Position : 65:40.64S 51:11.34E
Cast Depth (m) : 1574
Bottom Depth (m) : Not Recorded

| Depth d bar | Temperature (deg C) | Salinity | Sigma-T |
|---|---|---|---|
| 0 | | | |
| 2 | -1.87 | 34.37 | 27.67 |
| 5 | -1.85 | 34.35 | 27.65 |
| 10 | -1.86 | 34.36 | 27.66 |
| 15 | -1.86 | 34.39 | 27.68 |
| 20 | -1.86 | 34.38 | 27.68 |
| 25 | -1.85 | 34.38 | 27.68 |
| 30 | -1.86 | 34.38 | 27.68 |
| 35 | -1.85 | 34.40 | 27.70 |
| 40 | -1.85 | 34.41 | 27.70 |
| 45 | -1.85 | 34.49 | 27.77 |
| 50 | -1.85 | 34.50 | 27.78 |
| 60 | -1.85 | 34.52 | 27.79 |
| 70 | -1.86 | 34.53 | 27.80 |
| 75 | -1.86 | 34.55 | 27.81 |
| 80 | -1.86 | 34.56 | 27.82 |
| 90 | -1.85 | 34.59 | 27.85 |
| 100 | -1.85 | 34.54 | 27.81 |
| 125 | -1.84 | 34.55 | 27.82 |
| 150 | -1.86 | 34.41 | 27.70 |
| 175 | -1.86 | 34.42 | 27.71 |
| 200 | -1.87 | 34.46 | 27.74 |
| 250 | -1.87 | 34.80 | 28.02 |
| 300 | -1.83 | 35.14 | 28.30 |
| 400 | -1.16 | 35.20 | 28.32 |
| 500 | -0.93 | 35.25 | 28.35 |
| 600 | -0.18 | 35.33 | 28.38 |
| 700 | 0.10 | 35.37 | 28.40 |
| 800 | 0.08 | 35.38 | 28.41 |
| 900 | 0.15 | 35.39 | 28.41 |
| 1000 | 0.04 | 35.38 | 28.41 |
| 1100 | -0.01 | 35.37 | 28.41 |
| 1200 | -0.03 | 35.38 | 28.41 |
| 1300 | -0.04 | 35.38 | 28.42 |
| 1400 | -0.06 | 35.38 | 28.42 |
| 1500 | -0.11 | 35.38 | 28.42 |

Cruise : ADBEX3 Station 44
25 NOV 1985 1315 GMT
Latitude 65: 40.64S
Longitude 51: 11.34E
Depth: CTD 1574 m Bottom NR



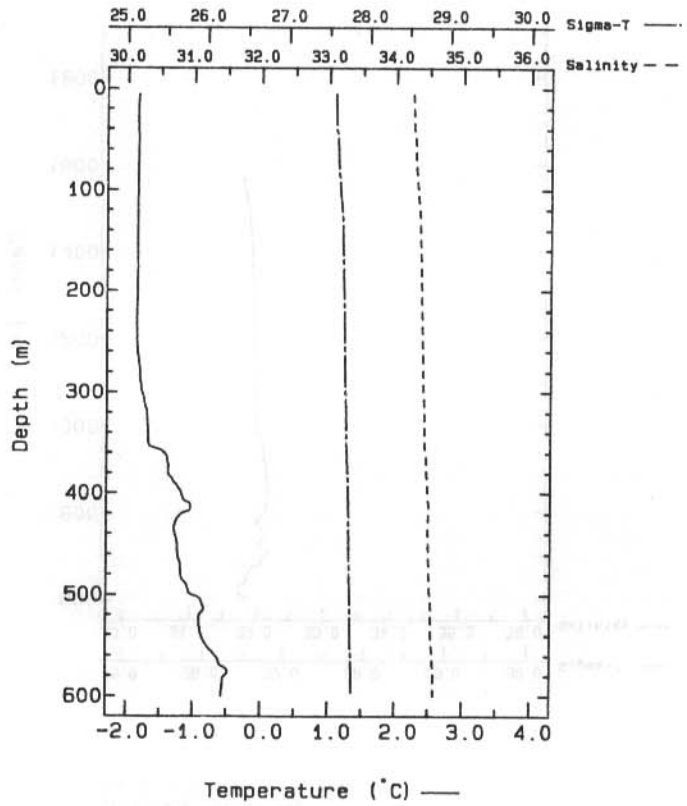
Cruise : ADBEX3 Station 44
25 NOV 1985 1315 GMT
Latitude 65: 40.64S
Longitude 51: 11.34E
Depth: CTD 1574 m Bottom NR



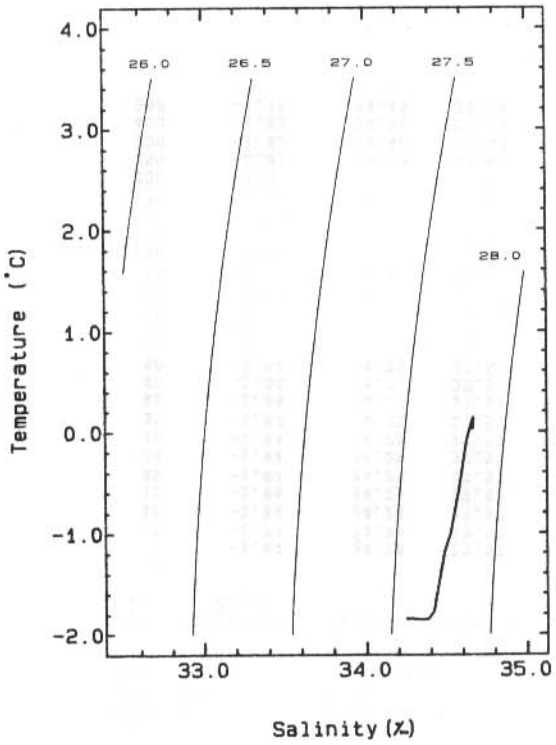
Cruise : ADBEX3
Station number : 45
Date : 25 NOV 1985
Start Time : 1442 GMT
Ship : NELLA DAN
Position : 65:40.99S 51:11.48E
Cast Depth (m) : 1002
Bottom Depth (m) : Not Recorded

| Depth d bar | Temperature (deg C) | Salinity | Sigma-T |
|---|---|---|---|
| 0 | | | |
| 5 | | | |
| 6 | -1.84 | 34.25 | 27.57 |
| 10 | -1.84 | 34.25 | 27.57 |
| 15 | -1.85 | 34.26 | 27.58 |
| 20 | -1.85 | 34.26 | 27.58 |
| 25 | -1.85 | 34.26 | 27.58 |
| 30 | -1.85 | 34.26 | 27.58 |
| 35 | -1.85 | 34.26 | 27.58 |
| 40 | -1.85 | 34.26 | 27.58 |
| 45 | -1.84 | 34.28 | 27.59 |
| 50 | -1.84 | 34.28 | 27.60 |
| 60 | -1.84 | 34.29 | 27.60 |
| 70 | -1.84 | 34.29 | 27.61 |
| 75 | -1.85 | 34.30 | 27.61 |
| 80 | -1.85 | 34.30 | 27.61 |
| 90 | -1.85 | 34.32 | 27.63 |
| 100 | -1.85 | 34.33 | 27.64 |
| 125 | -1.85 | 34.36 | 27.66 |
| 150 | -1.85 | 34.36 | 27.66 |
| 175 | -1.85 | 34.38 | 27.68 |
| 200 | -1.85 | 34.38 | 27.68 |
| 250 | -1.86 | 34.40 | 27.69 |
| 300 | -1.77 | 34.42 | 27.71 |
| 400 | -1.19 | 34.49 | 27.74 |
| 500 | -1.02 | 34.52 | 27.77 |
| 600 | -0.57 | 34.58 | 27.79 |
| 700 | -0.10 | 34.63 | 27.81 |
| 800 | 0.10 | 34.66 | 27.83 |
| 900 | 0.14 | 34.67 | 27.83 |
| 1000 | 0.02 | 34.66 | 27.83 |

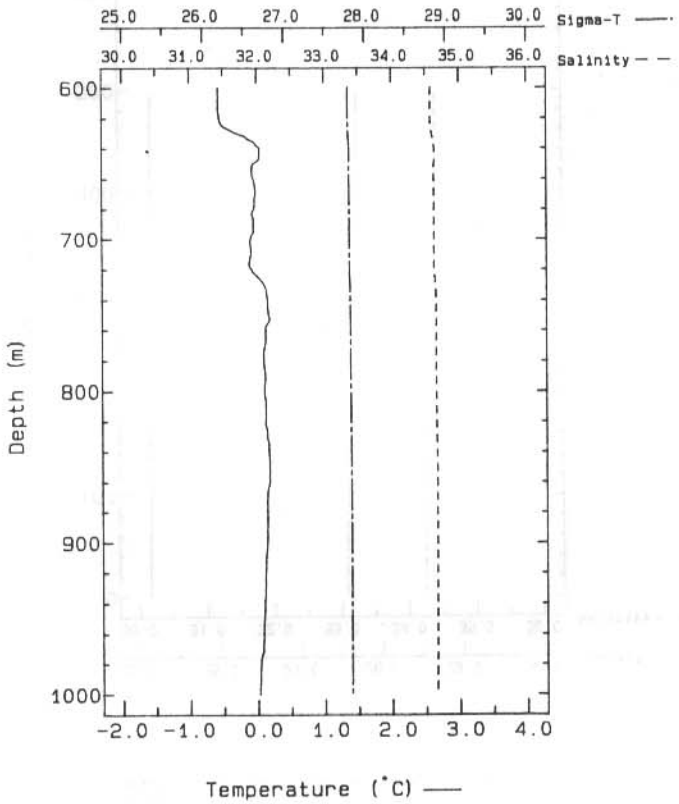
Cruise : ADBEX3 Station 45
25 NOV 1985 1442 GMT
Latitude 65: 40.99S
Longitude 51: 11.48E
Depth: CTD 1002 m Bottom NR



Cruise: ADBEX3 Station: 45
25 NOV 1985 1442 GMT
Latitude : 65: 40.99S
Longitude: 51: 11.48E
Depth: CTD 1002 m Bottom NR



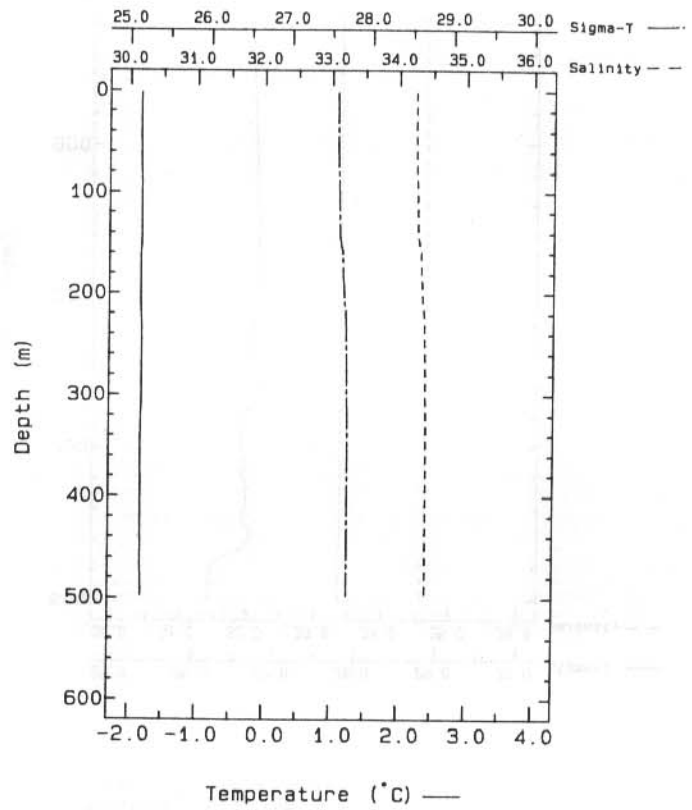

Cruise : ADBEX3 Station 45
25 NOV 1985 1442 GMT
Latitude 65: 40.99S
Longitude 51: 11.48E
Depth: CTD 1002 m Bottom NR



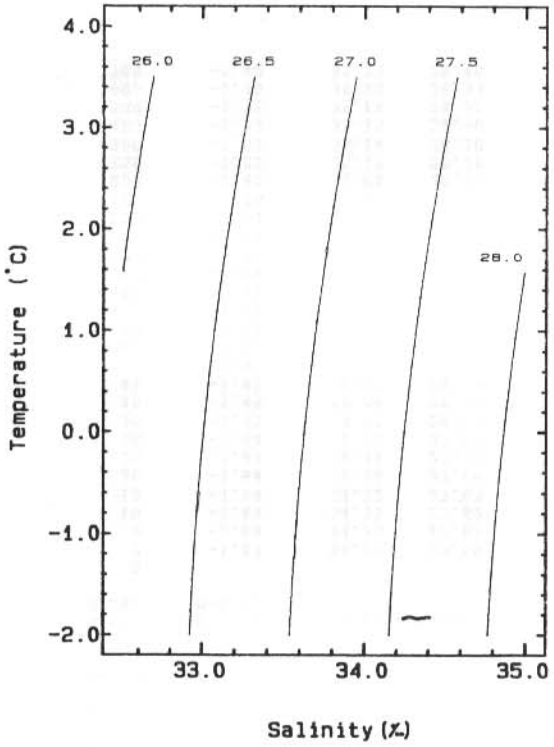
Cruise : ADBEX3
Station number : 46
Date : 29 NOV 1985
Start Time : 1310 GMT
Ship : NELLA DAN
Position : 66:03.15S 49:49.78E
Cast Depth (m) : 500
Bottom Depth (m) : Not Recorded

| Depth d bar | Temperature (deg C) | Salinity | Sigma-T |
|---|---|---|---|
| 0 | | | |
| 2 | -1.84 | 34.24 | 27.57 |
| 5 | -1.83 | 34.24 | 27.57 |
| 10 | -1.84 | 34.24 | 27.57 |
| 15 | -1.84 | 34.25 | 27.57 |
| 20 | -1.84 | 34.25 | 27.57 |
| 25 | -1.84 | 34.25 | 27.57 |
| 30 | -1.84 | 34.25 | 27.57 |
| 35 | -1.84 | 34.25 | 27.57 |
| 40 | -1.84 | 34.25 | 27.57 |
| 45 | -1.84 | 34.25 | 27.57 |
| 50 | -1.84 | 34.25 | 27.57 |
| 60 | -1.83 | 34.25 | 27.57 |
| 70 | -1.83 | 34.26 | 27.58 |
| 75 | -1.83 | 34.26 | 27.58 |
| 80 | -1.83 | 34.26 | 27.58 |
| 90 | -1.82 | 34.27 | 27.59 |
| 100 | -1.82 | 34.27 | 27.59 |
| 125 | -1.82 | 34.28 | 27.59 |
| 150 | -1.83 | 34.30 | 27.61 |
| 175 | -1.84 | 34.33 | 27.64 |
| 200 | -1.83 | 34.35 | 27.65 |
| 250 | -1.81 | 34.39 | 27.68 |
| 300 | -1.82 | 34.40 | 27.69 |
| 400 | -1.83 | 34.41 | 27.70 |
| 500 | -1.35 | 34.47 | 27.74 |

Cruise : ADBEX3 Station 46
29 NOV 1985 1310 GMT
Latitude 66: 03.15S
Longitude 49: 49.78E
Depth: CTD 500 m Bottom NR



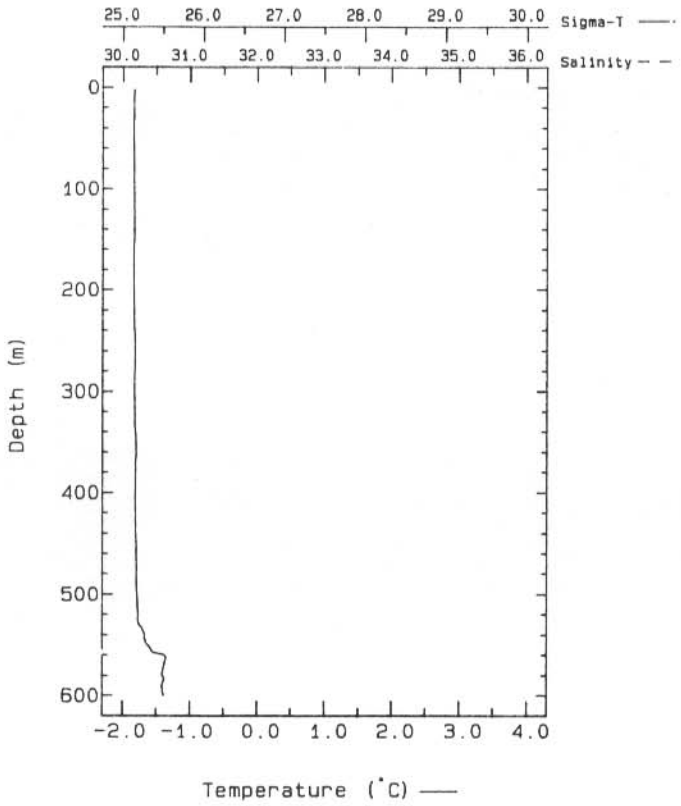
Cruise: ADBEX3 Station: 46
29 NOV 1985 1310 GMT
Latitude : 66: 03.15S
Longitude: 49: 49.78E
Depth: CTD 500 m Bottom NR



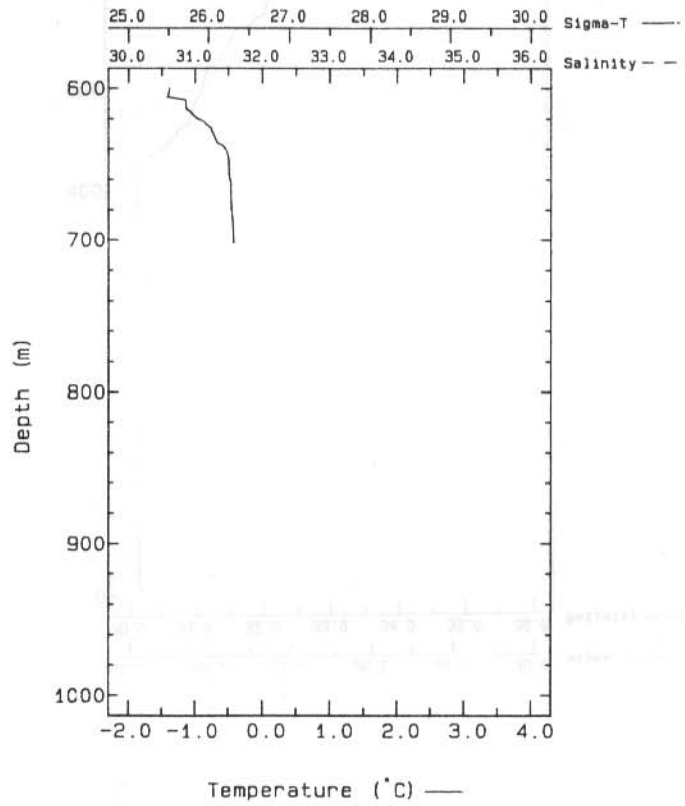
Cruise : ADBEX3
Station number : 47
Date : 29 NOV 1985
Start Time : 1356 GMT
Ship : NELLA DAN
Position : 66:03.13S 49:49.85E
Cast Depth (m) : 704
Bottom Depth (m) : Not Recorded

| Depth d bar | Temperature (deg C) | Salinity | Sigma-T |
|---|---|---|---|
| 0 | | | |
| 2 | -1.83 | 34.27 | 27.59 |
| 5 | -1.84 | 34.30 | 27.61 |
| 10 | -1.84 | 34.31 | 27.62 |
| 15 | -1.84 | 34.32 | 27.63 |
| 20 | -1.84 | 34.36 | 27.66 |
| 25 | -1.84 | 34.46 | 27.74 |
| 30 | -1.84 | 34.72 | 27.96 |
| 35 | -1.85 | 34.83 | 28.04 |
| 40 | -1.85 | 34.86 | 28.07 |
| 45 | -1.85 | 34.87 | 28.08 |
| 50 | -1.85 | 34.88 | 28.08 |
| 60 | -1.84 | 34.90 | 28.10 |
| 70 | -1.84 | 34.91 | 28.11 |
| 75 | -1.84 | 34.92 | 28.12 |
| 80 | -1.84 | 34.92 | 28.12 |
| 90 | -1.84 | 34.93 | 28.12 |
| 100 | -1.83 | 34.94 | 28.13 |
| 125 | -1.83 | 34.97 | 28.15 |
| 150 | -1.84 | 35.03 | 28.20 |
| 175 | -1.85 | 35.06 | 28.23 |
| 200 | -1.84 | 35.08 | 28.25 |
| 250 | -1.82 | 35.13 | 28.28 |
| 300 | -1.83 | 35.14 | 28.30 |
| 400 | -1.82 | 35.15 | 28.30 |
| 500 | -1.78 | 35.16 | 28.31 |
| 600 | -1.39 | 35.20 | 28.33 |
| 700 | -0.42 | 35.33 | 28.40 |

Cruise : ADBEX3 Station 47
29 NOV 1985 1356 GMT
Latitude 66:03.13S
Longitude 49:49.85E
Depth: CTD 704 m Bottom NR



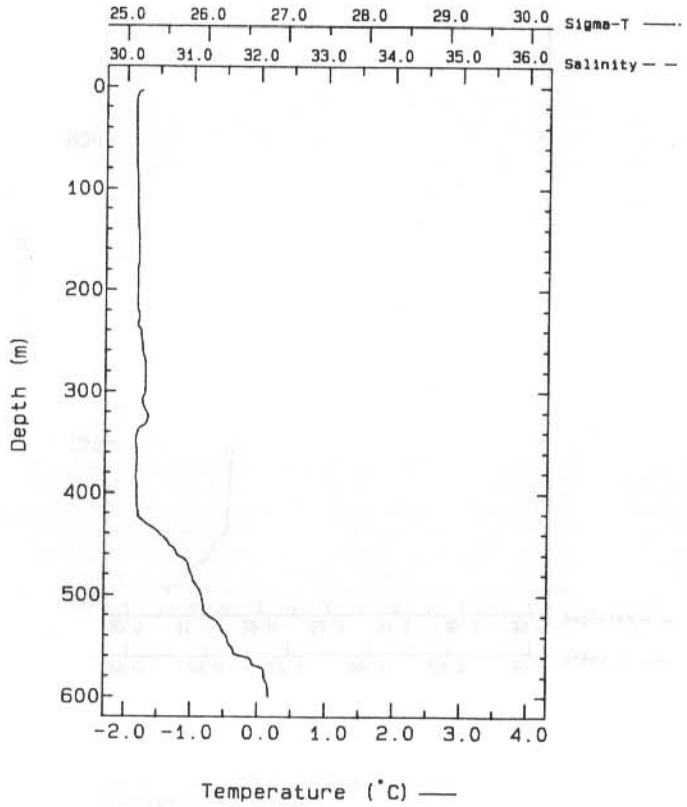
Cruise : ADBEX3 Station 47
29 NOV 1985 1356 GMT
Latitude 66: 03.13S
Longitude 49: 49.85E
Depth: CTD 704 m Bottom NR



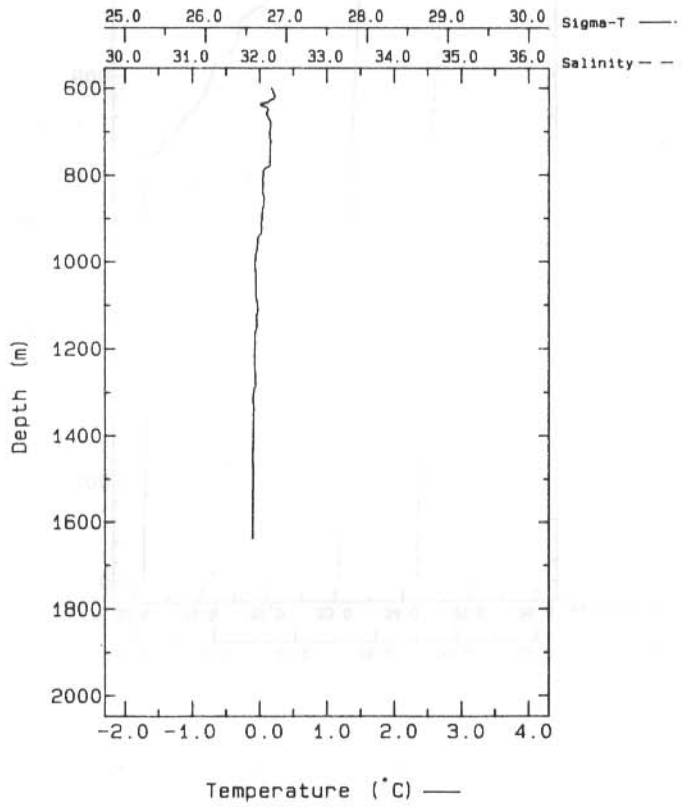
Cruise : ADBEX3
Station number : 48
Date : 6 DEC 1985
Start Time : 0939 GMT
Ship : NELLA DAN
Position : 66:15.41S 49:14.20E
Cast Depth (m) : 1640
Bottom Depth (m) : Not Recorded

| Depth d bar | Temperature (deg C) | Salinity | Sigma-T |
|---|---|---|---|
| 0 | | | |
| 4 | -1.78 | 34.14 | 27.48 |
| 5 | -1.81 | 34.16 | 27.50 |
| 10 | -1.85 | 34.24 | 27.57 |
| 15 | -1.86 | 34.26 | 27.58 |
| 20 | -1.86 | 34.32 | 27.63 |
| 25 | -1.86 | 34.39 | 27.68 |
| 30 | -1.86 | 34.71 | 27.95 |
| 35 | -1.86 | 34.78 | 28.01 |
| 40 | -1.86 | 34.82 | 28.03 |
| 45 | -1.85 | 34.83 | 28.05 |
| 50 | -1.85 | 34.85 | 28.06 |
| 60 | -1.85 | 34.87 | 28.08 |
| 70 | -1.85 | 34.88 | 28.09 |
| 75 | -1.85 | 34.89 | 28.09 |
| 80 | -1.84 | 34.90 | 28.10 |
| 90 | -1.83 | 34.92 | 28.12 |
| 100 | -1.83 | 34.95 | 28.14 |
| 125 | -1.82 | 34.97 | 28.16 |
| 150 | -1.81 | 34.98 | 28.16 |
| 175 | -1.82 | 34.99 | 28.17 |
| 200 | -1.82 | 35.01 | 28.19 |
| 250 | -1.75 | 35.06 | 28.23 |
| 300 | -1.71 | 35.08 | 28.25 |
| 400 | -1.82 | 35.14 | 28.30 |
| 500 | -0.84 | 35.26 | 28.36 |
| 600 | 0.17 | 35.39 | 28.41 |
| 700 | 0.15 | 35.40 | 28.42 |
| 800 | 0.05 | 35.40 | 28.42 |
| 900 | 0.03 | 35.41 | 28.43 |
| 1000 | -0.07 | 35.39 | 28.43 |
| 1100 | -0.04 | 35.40 | 28.43 |
| 1200 | -0.08 | 35.40 | 28.44 |
| 1300 | -0.10 | 35.41 | 28.44 |
| 1400 | -0.10 | 35.41 | 28.44 |
| 1500 | -0.10 | 35.42 | 28.45 |

Cruise : ADBEX3 Station 48
06 DEC 1985 0939 GMT
Latitude 66: 15.41S
Longitude 49: 14.20E
Depth: CTD 1640 m Bottom NR



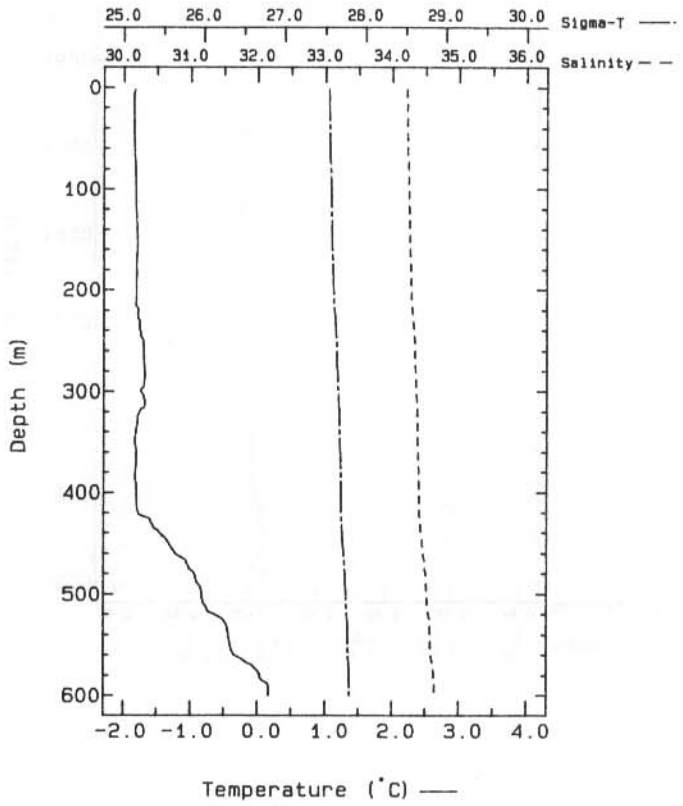
Cruise : ADBEX3 Station 48
06 DEC 1985 0939 GMT
Latitude 66: 15.41S
Longitude 49: 14.20E
Depth: CTD 1640 m Bottom NR



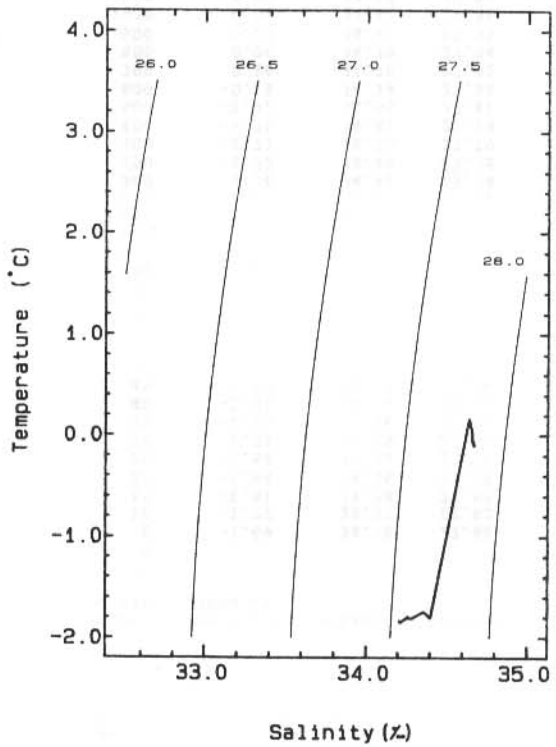
Cruise : ADBEX3
Station number : 49
Date : 6 DEC 1985
Start Time : 1110 GMT
Ship : NELLA DAN
Position : 66:15.45S 49:14.19E
Cast Depth (m) : 1640
Bottom Depth (m) : Not Recorded

| Depth d bar | Temperature (deg C) | Salinity | Sigma-T |
|---|---|---|---|
| 0 | | | |
| 2 | -1.84 | 34.21 | 27.54 |
| 5 | -1.85 | 34.21 | 27.54 |
| 10 | -1.85 | 34.22 | 27.54 |
| 15 | -1.85 | 34.22 | 27.54 |
| 20 | -1.85 | 34.22 | 27.55 |
| 25 | -1.85 | 34.22 | 27.55 |
| 30 | -1.85 | 34.22 | 27.55 |
| 35 | -1.85 | 34.22 | 27.55 |
| 40 | -1.85 | 34.22 | 27.55 |
| 45 | -1.84 | 34.22 | 27.55 |
| 50 | -1.84 | 34.22 | 27.55 |
| 60 | -1.84 | 34.22 | 27.55 |
| 70 | -1.84 | 34.23 | 27.55 |
| 75 | -1.83 | 34.24 | 27.56 |
| 80 | -1.82 | 34.24 | 27.56 |
| 90 | -1.82 | 34.24 | 27.57 |
| 100 | -1.82 | 34.25 | 27.57 |
| 125 | -1.81 | 34.25 | 27.57 |
| 150 | -1.79 | 34.26 | 27.58 |
| 175 | -1.81 | 34.27 | 27.59 |
| 200 | -1.81 | 34.29 | 27.60 |
| 250 | -1.70 | 34.34 | 27.64 |
| 300 | -1.74 | 34.36 | 27.66 |
| 400 | -1.81 | 34.40 | 27.69 |
| 500 | -0.82 | 34.52 | 27.76 |
| 600 | 0.17 | 34.64 | 27.81 |
| 700 | 0.10 | 34.65 | 27.82 |
| 800 | 0.07 | 34.65 | 27.82 |
| 900 | 0.02 | 34.66 | 27.83 |
| 1000 | -0.03 | 34.66 | 27.83 |
| 1100 | -0.06 | 34.66 | 27.83 |
| 1200 | -0.07 | 34.66 | 27.84 |
| 1300 | -0.06 | 34.67 | 27.84 |
| 1400 | -0.09 | 34.67 | 27.84 |
| 1500 | -0.09 | 34.67 | 27.84 |

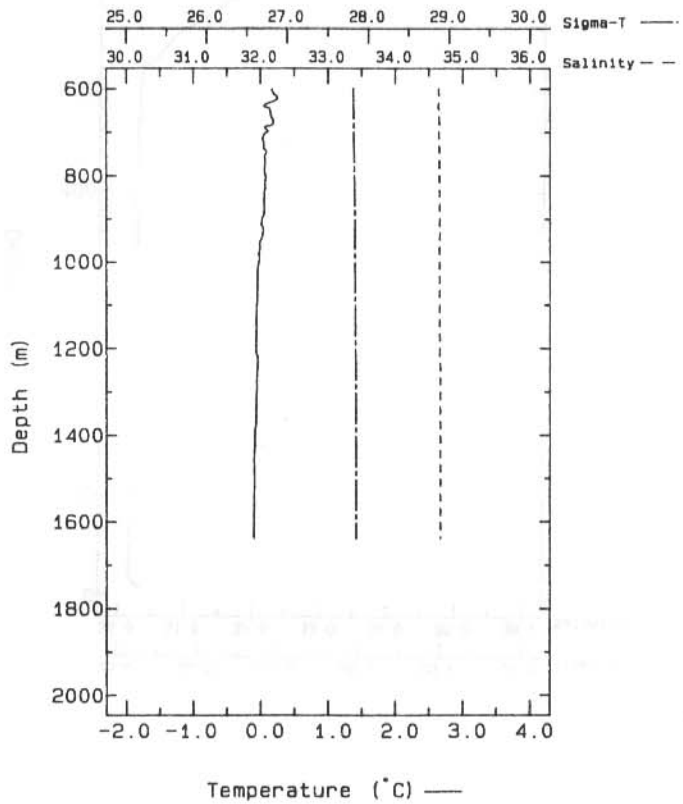
Cruise : ADBEX3 Station 49
06 DEC 1985 1110 GMT
Latitude 66: 15.45S
Longitude 49: 14.19E
Depth: CTD 1640 m Bottom NR



Cruise: ADBEX3 Station: 49
06 DEC 1985 1110 GMT
Latitude : 66: 15.45S
Longitude: 49: 14.19E
Depth: CTD 1640 m Bottom NR



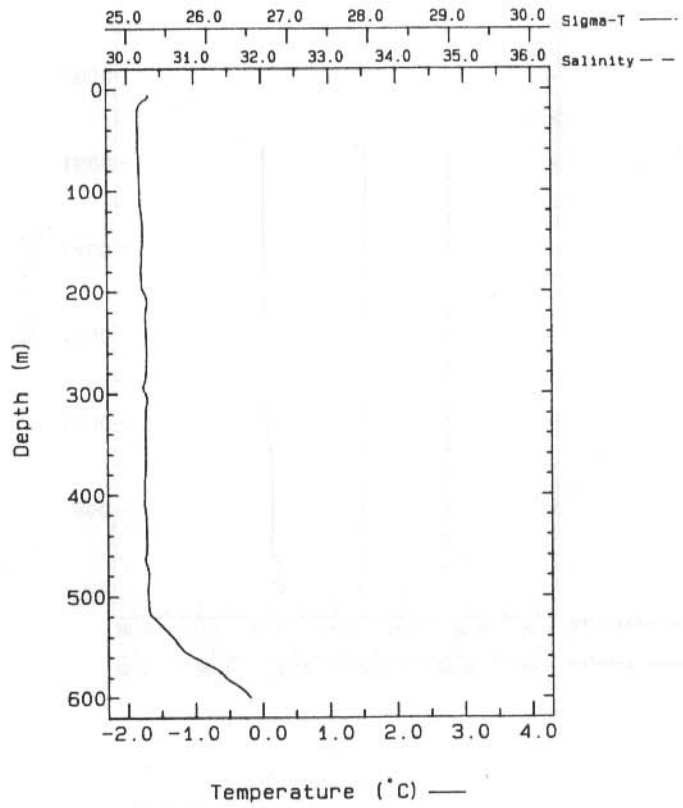

Cruise : ADBEX3 Station 49
06 DEC 1985 1110 GMT
Latitude 66: 15.45S
Longitude 49: 14.19E
Depth: CTD 1640 m Bottom NR



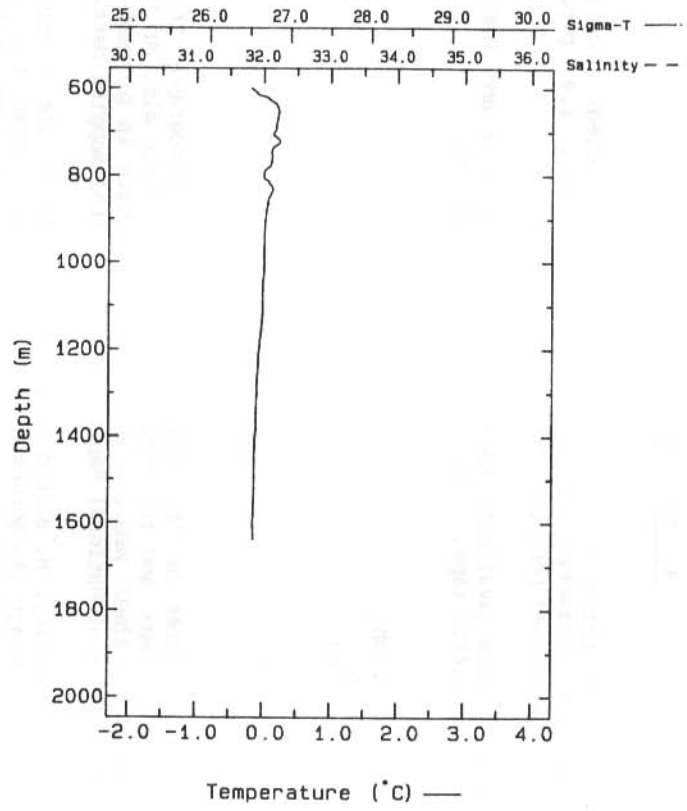
Cruise : ADBEX3
Station number : 50
Date : 13 DEC 1985
Start Time : 1023 GMT
Ship : NELLA DAN
Position : 66:16.79S 49:07.32E
Cast Depth (m) : 1640
Bottom Depth (m) : Not Recorded

| Depth d bar | Temperature (deg C) | Salinity | Sigma-T |
|---|---|---|---|
| 0 | | | |
| 5 | | | |
| 6 | -1.69 | 34.36 | 27.66 |
| 10 | -1.72 | 34.31 | 27.62 |
| 15 | -1.81 | 34.34 | 27.65 |
| 20 | -1.84 | 34.36 | 27.66 |
| 25 | -1.84 | 34.36 | 27.66 |
| 30 | -1.84 | 34.36 | 27.66 |
| 35 | -1.84 | 34.36 | 27.66 |
| 40 | -1.84 | 34.36 | 27.66 |
| 45 | -1.83 | 34.36 | 27.66 |
| 50 | -1.84 | 34.36 | 27.66 |
| 60 | -1.83 | 34.37 | 27.67 |
| 70 | -1.82 | 34.37 | 27.67 |
| 75 | -1.82 | 34.37 | 27.67 |
| 80 | -1.82 | 34.37 | 27.67 |
| 90 | -1.81 | 34.37 | 27.67 |
| 100 | -1.81 | 34.37 | 27.67 |
| 125 | -1.78 | 34.40 | 27.69 |
| 150 | -1.77 | 34.42 | 27.71 |
| 175 | -1.80 | 34.43 | 27.72 |
| 200 | -1.76 | 34.46 | 27.74 |
| 250 | -1.72 | 34.48 | 27.76 |
| 300 | -1.73 | 34.52 | 27.79 |
| 400 | -1.75 | 34.52 | 27.79 |
| 500 | -1.70 | 34.55 | 27.81 |
| 600 | -0.19 | 34.74 | 27.91 |
| 700 | 0.16 | 34.78 | 27.92 |
| 800 | 0.00 | 34.79 | 27.94 |
| 900 | 0.02 | 34.81 | 27.95 |
| 1000 | 0.01 | 34.82 | 27.96 |
| 1100 | -0.02 | 34.82 | 27.96 |
| 1200 | -0.07 | 34.83 | 27.97 |
| 1300 | -0.10 | 34.83 | 27.98 |
| 1400 | -0.13 | 34.83 | 27.98 |
| 1500 | -0.14 | 34.84 | 27.98 |

Cruise : ADBEX3 Station 50
13 DEC 1985 1023 GMT
Latitude 66: 16.79S
Longitude 49: 07.32E
Depth: CTD 1640 m Bottom NR



Cruise : ADBEX3 Station 50
13 DEC 1985 1023 GMT
Latitude 66: 16.79S
Longitude 49: 07.32E
Depth: CTD 1640 m Bottom NR



## 4. DATA STORAGE AND AVAILABILITY

Data exist in three formats; raw data, as collected; uncalibrated and de-spiked but corrected for sensor constants etc., i.e. processed; and 2 dbar averages used for plotting and presentation.

Data may be made available to other research workers and institutions on nine track magnetic tape. Enquiries should be made to:

The Director
Antarctic Division
Channel Highway
KINGSTON TAS 7150

## ACKNOWLEDGMENTS

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