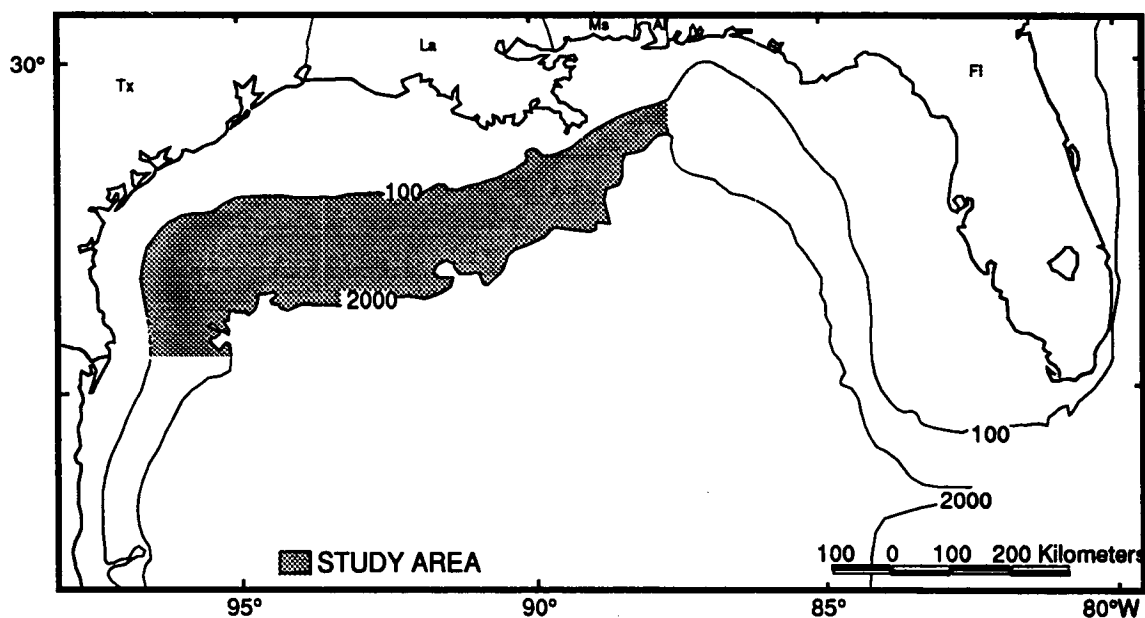


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# GULFCET CRUISE 04 HYDROGRAPHIC DATA

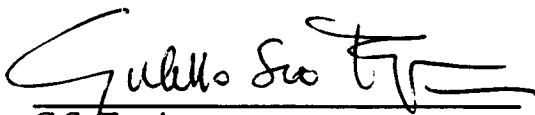
XBT, CTD, AND NISKIN BOTTLE DATA FROM  
FEBRUARY 11-25, 1993 CRUISE ON R/V *PELICAN*




Technical Report 93-04-T of the Department of Marine Biology  
Texas A&M University at Galveston, Galveston, Texas 77553

Prepared for the U.S. Minerals Management Service by the Data  
Management Office of the GulfCet project, under contract number  
14-35-0001-30619

October 1993

  
G.S. Fargion,  
Technical Editor

  
R.W. Davis,  
Program Manager, GulfCet

**FILE COPY**

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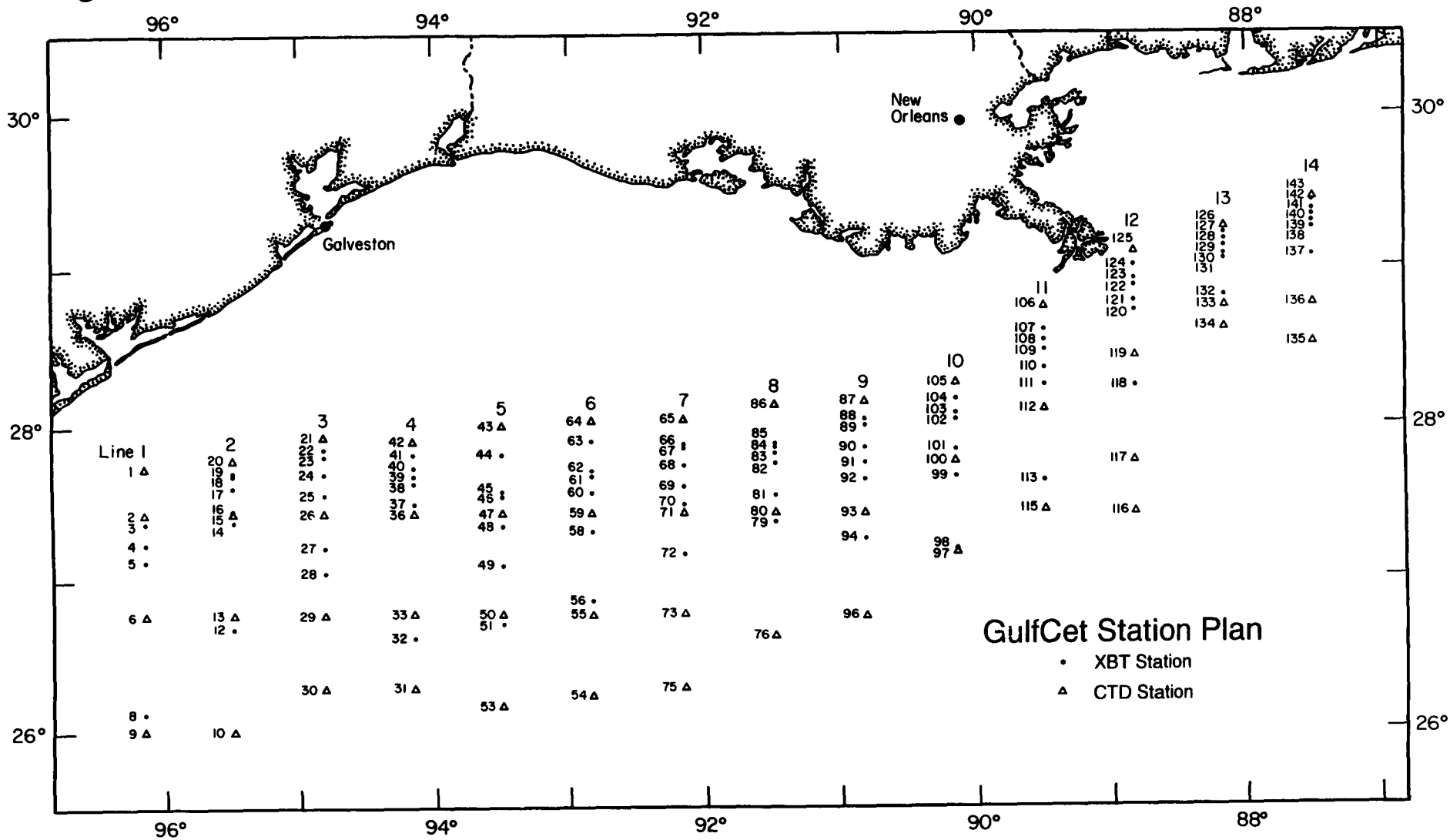
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Figure 1. GulfCet Station Plan: XBT and CTD Stations



## INTRODUCTION

The data presented in this report were collected to satisfy, in part, the objectives of Mineral Management Service (MMS) contract number 14-35-0001-30619, "Distribution and Abundance of Marine Mammals in the North-Central and Western Gulf of Mexico." This program includes aerial, acoustic, visual, and hydrographic surveys, a sperm whale tagging and tracking program, and a remote sensing survey. The program involves the combined efforts of Texas A&M University at Galveston (TAMUG), Texas Institute of Oceanography (TIO), Texas A&M University at College Station (TAMU), the National Marine Fisheries Service (NMFS) at the Southeast Fisheries Science Center, and Oregon State University's Hatfield Marine Science Center. This MMS program, named GulfCet, is designed to ascertain the distribution, abundance, seasonality, and movement patterns of cetaceans along the continental slope from the Florida-Alabama border to the Texas-Mexico border between the 100 and 2000 meter isobaths.

The GulfCet program participates in four TAMU sponsored cruises per year, one cruise per season, for two of the three years of the contract period. These data were collected on the fourth TAMU GulfCet cruise, a fourteen day winter cruise, February 11-25, 1993, aboard the Louisiana Universities Marine Consortium (LUMCON) ship, R/V *Pelican*. This cruise had a threefold purpose: a visual survey of marine mammals, a continuously recording acoustic survey, and a hydrographic survey. A transect consisting of fourteen North-South track lines (Figure 1) was followed during the cruise. Track line 1 was not sampled due to ship time constraints. The stations were sampled in reverse order, beginning with line 14, station 143.

Data from the hydrographic survey are presented in this report. Requests for data should be sent to the Minerals Management Service at the Gulf of Mexico Regional OCS Office in New Orleans, or via Dr. Giulietta Fargion, GulfCet DMO, TAMUG, Galveston, Texas, (OMNET/ G. Fargion). The data in this report are available in digital form.

## STANDARD PROCEDURES

Data in this report were obtained with CTD lowerings, rosette casts, XBT deployments, and LUMCON's continuously recording proprietary system, Multiple Interface Data Acquisition System (MIDAS) (Walsler, et al., 1992). Sea-Bird Electronics SBE 9 Plus CTD was used on this cruise, and lowered to the sea floor, or to a maximum depth of 1000 m. Sparton of Canada XBT probes, hardware, and software, along with Sippican's XBT launcher were also used. A rosette holding 12 5-liter Niskin bottles was lowered with the CTD.

### *Expendable Bathythermograph (XBT) Data:*

XBT's (Appendix A, Table 1) were launched at the depths of 200, 350, 500, 800, 1000, and 1500 meters along each track line, using T-7, T-10, and T-20 XBT probes.

### *Conductivity/Temperature/Depth (CTD) Data:*

CTD stations (see Appendix A, Table 2, which shows desired station positions) were located at the 100 and 2000 m isobaths (except at the Mexican border), and at 40 nautical mile intervals on each track line. Vertical profiles of salinity, temperature, oxygen, and beam attenuation coefficient (transmissometry) were measured at every station. At stations less than 500 m, in situ fluorescence was also measured.

The CTD temperature, pressure, dissolved oxygen, and conductivity sensors are calibrated semi-annually at Sea-Bird Electronics.

### *Continuous Recording Data:*

A continuous recording of navigation data, surface hydrographic data (salinity, temperature, fluorescence, light transmission, and sea water flow rate), meteorological data (wind speed, wind

direction, air temperature, barometric pressure, and solar irradiance) were collected with the MIDAS system. The MIDAS system sampling rate is an average of every fifteen seconds. This system uses a Sea-Bird Electronics' temperature sensor, and a Sea Tech, Inc. fluorometer and transmissometer. The conductivity-temperature meter on the MIDAS is calibrated annually at Sea-Bird Electronics.

#### ***Rosette Cast Data:***

The rosette was lowered with the CTD at all designated stations. The bottles were closed on the upcast, and twelve water samples were collected at each station. Chlorophyll samples were taken from each bottle at all CTD stations. A salinity sample was taken from each bottle at the following stations: 03-030, 06-064, 08-076, 10-097, 12-125, 13-133, and 14-143.

Salinity samples were analyzed at TAMU, using a Guildline Connectively Coupled Salinometer (model number 8400A). The Salinometer was standardized with Wormley Standard Seawater. Salinity values are reported to four decimal places.

Chlorophyll samples were filtered on board and kept under liquid nitrogen until return to shore. The chlorophyll data are not presented in this report, but will be reported in a later technical report.

## **TABULATED DATA**

The "start time" for hydrographic casts is Central Standard Time. Bottom depth was determined acoustically (DATA SONIC SBT 220), but in some cases the depth was estimated from bathymetric charts.

#### ***Expendable Bathythermograph (XBT ) Data:***

Raw frequency data were processed with an in-house conversion program using Sparton's drop rates (Sparton of Canada, 1992). The processed XBT data were interpolated using a program developed at Scripps Institute of Oceanography. Interpolations are at 1 m. steps, and data are listed at 10 m. intervals. Probe failures occurred at stations 06-061, 12-123, and 13-131. Seven extra XBT probes were deployed at marine mammal sightings or for acoustic array calibration. The extra probes are listed by their corresponding track line number followed by EX. The probe deployed for acoustic calibration is listed as NL, indicating that it was not on a track line.

The 15° and 20° C isotherm depth maps (Figures 2 and 3, Appendix B) were compiled from processed XBT data, and were plotted with *Surfer* software (version 4, Golden Software, Inc.). Figure 4 in Appendix B shows a plot of the surface temperature values taken from the MIDAS versus those taken from the XBTs.

#### ***Conductivity/Temperature/Depth (CTD) Data:***

CTD data are tabulated to "standard levels" (UNESCO, 1991). The CTD data were acquired at 24 Hz and processed using Sea-Bird's Seasoft software (version 4.015, Sea-Bird Electronics, 1992).

The following CTD data processing steps were used:

- |                     |   |
|---------------------|---|
| 1. DATCNV           | Converts raw data to binary engineering units and stores data in CNV files.                                       |
| 2. SPLIT            | Splits the CNV files into upcast and downcast files.  |
| 3. WILDEDIT         | Checks for and marks 'wild' data points.  |
| 4. FILTER           | Filters data columns to produce zero phase time shifts.   |
| 5. ALIGNCTD         | Aligns specific temperature, conductivity, and oxygen measurements with their corresponding pressure measurement. |
| 6. In-house program | Converts temperature to ITS-90 scale (UNESCO, 1991).  |
| 7. CELLTM           | Removes conductivity cell thermal mass effects from conductivity data.  |
| 8. LOOPEDIT         | Marks the scan where CTD is moving less than the minimum velocity or traveling backwards due to ship roll.        |
| 9. DERIVE           | Computes dissolved oxygen and depth.  |

- 10. BINA VG                   Averages the data into 1 m. depth bins.
- 11. DERIVE                   Computes salinity (PSS-78), density (EOS80), potential temperature (Pot. Temp), specific volume anomaly (SVA), and sound velocity (Chen-Millero) using Fofonoff and Millard's (1983) formulas.

No data corrections were made. The temperature sensor was calibrated after this cruise at Sea-Bird Electronics. On April 21, 1993, a drift of 0.00328 was obtained.

Station positions for the processed CTD data indicate actual occupied positions. Three CTD stations were not sampled due to CTD pylon, sea cable, and sensor failure. Figure 5 (Appendix B) shows a plot of CTD sea surface temperature values versus MIDAS sea surface temperatures. Figure 6 (Appendix B) shows a CTD versus XBT temperature comparison for stations 05-050 and 05-051, with a 2.91 mile separation.

Column headings and units for the tabulated CTD data are as follows:

<u>Depth</u>	Depth	m
<u>Temp</u>	Temperature	°C
<u>Pot. Temp</u>	Potential Temperature	°C
<u>Salinity</u>	Salinity	PSU
<u>Density</u>	Density	kg/m <sup>3</sup>
<u>SVA</u>	Specific Volume Anomaly	10 <sup>-8</sup> m <sup>3</sup> /kg
<u>Sound V</u>	Sound Velocity	m/s
<u>Oxy</u>	Oxygen	mg/l
<u>Fluor.</u>	Fluorescence	v
<u>Pressure:</u>	Pressure	db

***Continuous Recording Data:***

The continuously recording data were processed with an in-house program which:

1. Cuts cruise track lines from the continuously recorded file.
2. Plots raw data with no corrections.

***Rosette Cast Data:***

Rough seas (>Beaufort 7) prevented near surface water collections at several stations. In these situations, Niskin bottles were fired no shallower than 15 m. below the surface.

Salinity data were computed using the recommended Joint Panel on Oceanographic Tables and Standards (JPOTS) formula (UNESCO, 1991). The surface salinity contour map was generated with *Surfer* software (version 4, Golden Software, Inc.) from CTD salinity data. Figure 7 of Appendix B is a plot of the salinity values with the CTD versus those obtained from Niskin water samples from the same stations. The difference between the Niskin bottle salinity values and the CTD values is plotted versus depth in Figure 8 (Appendix B).

The mean and standard deviation for the Niskin bottle salinities and CTD salinities are as follows:

- Mean bottle salinity: 36.0089
- Standard deviation from mean bottle salinities: 1.2998
- Mean CTD salinity: 36.1849
- Standard deviation from mean CTD salinities: 0.2940



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## PERSONNEL

### *GulfCet Cruise 03 Personnel:*

#### Ship's Captain:

Chris Riffe, R/V *Pelican*

#### Chief Scientist:

Giulietta Fargion

TAMUG, Research Associate Specialist, PI

#### Scientific Staff:

Jeff Norris  
Tom Jefferson  
Logan Respass  
Troy Sparks  
Bill Stevens  
Spencer Lynn  
David Weller  
Toni Frohof  
Stefan Brager  
David Brandon  
Les Orr  
Mike Duncan  
Dwight Peak

TAMU, Research Associate  
TAMU, Graduate Student  
TAMUG, Marine Technician  
TAMU, Graduate Student  
TAMUG, Marine Technician  
TAMU, Graduate Student  
TAMU, Graduate Student  
TAMU, Graduate Student  
Volunteer  
TAMUG, Computer Programmer  
TAMUG, Student  
TAMU, Graduate Student  
Volunteer

### *GulfCet Analytical and Processing Personnel:*

#### Sample Analysis:

Logan Respass

TAMUG, Marine Technician

#### Data Processing and Programming:

David Brandon  
Mary Howley

TAMUG, Computer Programmer  
TAMUG, Research Assistant

#### Report Writing and Quality Assurance:

Giulietta Fargion  
Cheryl Schroeder

TAMUG, GulfCet PI, Research Associate Specialist  
TAMUG, Student

**EXPENDABLE BATHYTHERMOGRAPH (XBT) DATA:**

- DATA SUMMARY TABLES**
- VERTICAL TEMPERATURE PROFILES**

Cruise: GULFCET 04      Station: 02-012      Probe Type: T-7  
 Latitude: 26° 40.90' N      Longitude: 95° 29.80' W      Date: 24-Feb-1993      Time: 0600

Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)
0.00	22.86	310.00	13.47	620.00	7.70
10.00	22.85	320.00	13.07	630.00	7.56
20.00	22.84	330.00	12.87	640.00	7.43
30.00	22.84	340.00	12.67	650.00	7.28
40.00	22.48	350.00	12.51	660.00	7.16
50.00	22.70	360.00	12.30	670.00	7.06
60.00	22.73	370.00	12.04	680.00	6.93
70.00	22.74	380.00	11.91	690.00	6.85
80.00	22.70	390.00	11.78	700.00	6.78
90.00	21.96	400.00	11.64	710.00	6.69
100.00	21.44	410.00	11.54	720.00	6.62
110.00	21.06	420.00	11.24	730.00	6.56
120.00	20.32	430.00	10.99	740.00	6.41
130.00	20.82	440.00	10.72	750.00	6.36
140.00	21.24	450.00	10.49	760.00	6.28
150.00	19.93	460.00	10.29	770.00	6.24
160.00	19.43	470.00	10.13	780.00	6.16
170.00	19.01	480.00	9.99	790.00	6.08
180.00	18.49	490.00	9.73	800.00	6.01
190.00	18.18	500.00	9.54	810.00	5.93
200.00	17.69	510.00	9.38	820.00	5.89
210.00	17.40	520.00	9.24		
220.00	17.04	530.00	9.06		
230.00	16.48	540.00	8.92		
240.00	15.98	550.00	8.73		
250.00	15.46	560.00	8.53		
260.00	15.11	570.00	8.45		
270.00	14.75	580.00	8.28		
280.00	14.35	590.00	8.09		
290.00	14.08	600.00	7.96		
300.00	13.77	610.00	7.81		

Cruise: GULFCET 04      Station: 02-014      Probe Type: T-7  
 Latitude: 27° 23.00' N      Longitude: 95° 30.00' W      Date: 23-Feb-1993      Time: 2138

Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)
0.00	22.52	310.00	12.37	620.00	6.96
10.00	22.50	320.00	12.08	630.00	6.85
20.00	22.51	330.00	11.89	640.00	6.76
30.00	22.52	340.00	11.61	650.00	6.73
40.00	22.75	350.00	11.41	660.00	6.61
50.00	22.80	360.00	11.17	670.00	6.56
60.00	22.60	370.00	10.90	680.00	6.50
70.00	22.53	380.00	10.63	690.00	6.36
80.00	22.54	390.00	10.41	700.00	6.30
90.00	22.45	400.00	10.23	710.00	6.25
100.00	22.43	410.00	10.00	720.00	6.15
110.00	22.00	420.00	9.71	730.00	6.02
120.00	20.59	430.00	9.50	740.00	5.92
130.00	19.84	440.00	9.39	750.00	5.76
140.00	19.20	450.00	9.20	760.00	5.69
150.00	18.57	460.00	9.00	770.00	5.66
160.00	18.08	470.00	8.90	780.00	5.55
170.00	17.57	480.00	8.79	790.00	5.48
180.00	16.86	490.00	8.63	800.00	5.42
190.00	16.43	500.00	8.46	810.00	5.35
200.00	16.03	510.00	8.30		
210.00	15.72	520.00	8.13		
220.00	15.26	530.00	8.06		
230.00	15.07	540.00	7.77		
240.00	14.69	550.00	7.70		
250.00	14.15	560.00	7.65		
260.00	13.72	570.00	7.49		
270.00	13.47	580.00	7.37		
280.00	13.19	590.00	7.23		
290.00	12.98	600.00	7.12		
300.00	12.83	610.00	7.03		

Cruise: GULFCET 04  
Latitude: 27° 28.00' N

Station: 02-016  
Longitude: 95° 29.90' W

Probe Type: T-7  
Date: 23-Feb-1993

Time: 1958

Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)
0.00	22.67	310.00	12.06	620.00	6.89
10.00	22.62	320.00	11.88	630.00	6.74
20.00	22.63	330.00	11.63	640.00	6.69
30.00	22.64	340.00	11.36	650.00	6.61
40.00	22.84	350.00	11.07	660.00	6.54
50.00	22.76	360.00	10.81	670.00	6.38
60.00	22.76	370.00	10.71	680.00	6.28
70.00	22.71	380.00	10.48	690.00	6.16
80.00	22.69	390.00	10.38	700.00	6.01
90.00	22.70	400.00	10.26	710.00	5.93
100.00	22.53	410.00	10.08	720.00	5.81
110.00	21.81	420.00	9.91		
120.00	20.65	430.00	9.71		
130.00	19.75	440.00	9.55		
140.00	19.11	450.00	9.24		
150.00	18.52	460.00	9.06		
160.00	17.93	470.00	8.86		
170.00	17.23	480.00	8.64		
180.00	16.81	490.00	8.43		
190.00	16.42	500.00	8.25		
200.00	16.04	510.00	8.14		
210.00	15.71	520.00	8.02		
220.00	15.08	530.00	7.87		
230.00	14.63	540.00	7.80		
240.00	14.26	550.00	7.62		
250.00	14.14	560.00	7.50		
260.00	13.66	570.00	7.36		
270.00	13.29	580.00	7.34		
280.00	13.00	590.00	7.23		
290.00	12.66	600.00	7.12		
300.00	12.35	610.00	7.00		

Cruise: GULFCET 04  
Latitude: 27° 36.50' N

Station: 02-017  
Longitude: 95° 30.00' W

Probe Type: T-7  
Date: 23-Feb-1993

Time: 1837

Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)
0.00	22.80	310.00	11.73
10.00	22.79	320.00	11.40
20.00	22.79	330.00	11.14
30.00	22.66	340.00	10.92
40.00	22.50	350.00	10.67
50.00	22.75	360.00	10.46
60.00	22.70	370.00	10.31
70.00	22.58	380.00	10.11
80.00	22.50	390.00	9.88
90.00	22.30	400.00	9.75
100.00	21.38	410.00	9.51
110.00	20.24	420.00	9.34
120.00	19.92	430.00	9.20
130.00	19.60	440.00	9.03
140.00	18.71	450.00	8.87
150.00	18.17	460.00	8.60
160.00	17.60	470.00	8.44
170.00	16.92	480.00	8.36
180.00	16.20	490.00	8.27
190.00	15.75		
200.00	15.13		
210.00	14.67		
220.00	14.41		
230.00	14.12		
240.00	13.78		
250.00	13.48		
260.00	13.09		
270.00	12.80		
280.00	12.40		
290.00	12.12		
300.00	11.96		

Cruise: GULFCET 04  
Latitude: 27° 41.50' N

Station: 02-018  
Longitude: 95° 29.90' W

Probe Type: T-7  
Date: 23-Feb-1993

Time: 1740

Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)
0.00	22.46	310.00	11.07
10.00	22.41	320.00	10.82
20.00	22.59	330.00	10.65
30.00	22.67	340.00	10.58
40.00	22.67	350.00	10.36
50.00	22.66	360.00	10.25
60.00	22.61	370.00	10.18
70.00	22.61	380.00	10.13
80.00	22.58	390.00	9.92
90.00	21.81		
100.00	21.48		
110.00	20.97		
120.00	20.19		
130.00	19.19		
140.00	18.74		
150.00	17.90		
160.00	17.14		
170.00	16.59		
180.00	16.03		
190.00	15.46		
200.00	14.97		
210.00	14.19		
220.00	13.51		
230.00	12.99		
240.00	12.93		
250.00	12.72		
260.00	12.34		
270.00	11.98		
280.00	11.54		
290.00	11.32		
300.00	11.20		

Cruise: GULFCET 04  
Latitude: 27° 42.00' N

Station: 02-019  
Longitude: 95° 29.90' W

Probe Type: T-10  
Date: 23-Feb-1993

Time: 1734

Depth (m)	Temp. (°C)
0.00	22.69
10.00	22.56
20.00	22.66
30.00	22.66
40.00	22.63
50.00	22.60
60.00	22.63
70.00	22.53
80.00	22.53
90.00	21.87
100.00	21.17
110.00	21.03
120.00	20.35
130.00	19.35
140.00	18.80
150.00	18.19
160.00	17.15
170.00	16.61
180.00	15.86
190.00	15.18
200.00	14.70
210.00	14.04

**Cruise:** GULFCET 04  
**Latitude:** 27° 51.40' N

**Station:** 03-022  
**Longitude:** 94° 50.00' W

**Probe Type:** T-10  
**Date:** 23-Feb-1993  
**Time:** 1045

Depth (m)	Temp. (°C)
0.00	22.18
10.00	21.56
20.00	21.56
30.00	21.60
40.00	21.53
50.00	20.89
60.00	20.60
70.00	20.40
80.00	20.09
90.00	19.59
100.00	19.17
110.00	19.15
120.00	18.23
130.00	17.42
140.00	16.75
150.00	16.24
160.00	15.91
170.00	15.47
180.00	15.02
190.00	14.84
200.00	14.23

**Cruise:** GULFCET 04  
**Latitude:** 27° 49.00' N

**Station:** 03-023  
**Longitude:** 94° 50.00' W

**Probe Type:** T-7  
**Date:** 23-Feb-1993  
**Time:** 1018

Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)
0.00	22.10	310.00	10.76
10.00	22.08	320.00	10.40
20.00	22.06	330.00	10.20
30.00	21.85	340.00	10.14
40.00	21.65		
50.00	21.46		
60.00	20.56		
70.00	20.48		
80.00	20.36		
90.00	20.25		
100.00	19.10		
110.00	18.75		
120.00	18.05		
130.00	17.10		
140.00	16.48		
150.00	16.00		
160.00	15.68		
170.00	15.23		
180.00	14.89		
190.00	14.61		
200.00	14.42		
210.00	13.92		
220.00	13.63		
230.00	13.36		
240.00	13.32		
250.00	12.80		
260.00	12.48		
270.00	12.15		
280.00	11.78		
290.00	11.55		
300.00	11.24		

Cruise: GULFCET 04  
Latitude: 27° 41.90' N

Station: 03-024  
Longitude: 94° 49.90' W

Probe Type: T-7  
Date: 23-Feb-1993

Time: 0912

Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)
0.00	22.81	310.00	11.51
10.00	22.77	320.00	11.38
20.00	22.77	330.00	11.35
30.00	22.77	340.00	11.27
40.00	22.62	350.00	11.07
50.00	22.65	360.00	10.91
60.00	22.73	370.00	10.72
70.00	22.81	380.00	10.50
80.00	22.68	390.00	10.41
90.00	21.77	400.00	10.30
100.00	21.10	410.00	10.24
110.00	19.90	420.00	10.13
120.00	19.02	430.00	9.98
130.00	18.21	440.00	9.86
140.00	17.78	450.00	9.78
150.00	17.17	460.00	9.63
160.00	15.87	470.00	9.35
170.00	15.37	480.00	9.15
180.00	14.91	490.00	8.70
190.00	14.67		
200.00	14.45		
210.00	14.10		
220.00	13.70		
230.00	13.45		
240.00	13.01		
250.00	12.86		
260.00	12.64		
270.00	12.57		
280.00	12.32		
290.00	12.11		
300.00	11.76		

Cruise: GULFCET 04  
Latitude: 27° 34.00' N

Station: 03-025  
Longitude: 94° 50.00' W

Probe Type: T-7  
Date: 23-Feb-1993

Time: 0753

Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)
0.00	23.81	310.00	12.43	620.00	7.16
10.00	22.76	320.00	12.20	630.00	6.99
20.00	22.74	330.00	12.03	640.00	6.84
30.00	22.74	340.00	11.89	650.00	6.70
40.00	22.74	350.00	11.73	660.00	6.61
50.00	22.71	360.00	11.38	670.00	6.51
60.00	22.58	370.00	10.95	680.00	6.46
70.00	22.47	380.00	10.81	690.00	6.37
80.00	22.74	390.00	10.65	700.00	6.30
90.00	22.59	400.00	10.41	710.00	6.24
100.00	21.82	410.00	10.25	720.00	6.16
110.00	21.72	420.00	9.97	730.00	6.13
120.00	20.68	430.00	9.89	740.00	5.78
130.00	19.86	440.00	9.74		
140.00	19.23	450.00	9.55		
150.00	18.58	460.00	9.38		
160.00	17.91	470.00	9.13		
170.00	17.36	480.00	8.99		
180.00	17.00	490.00	8.86		
190.00	16.38	500.00	8.67		
200.00	15.94	510.00	8.48		
210.00	15.58	520.00	8.41		
220.00	15.10	530.00	8.34		
230.00	14.81	540.00	8.18		
240.00	14.52	550.00	8.09		
250.00	14.20	560.00	7.99		
260.00	14.00	570.00	7.85		
270.00	13.63	580.00	7.71		
280.00	13.25	590.00	7.59		
290.00	12.90	600.00	7.46		
300.00	12.72	610.00	7.32		



Cruise: GULFCET 04  
Latitude: 27° 23.10' N

Station: 03-027  
Longitude: 94° 49.90' W

Probe Type: T-7  
Date: 23-Feb-1993

Time: 0500

Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)
0.00	23.33	310.00	12.84	620.00	7.47
10.00	22.91	320.00	12.54	630.00	7.42
20.00	22.90	330.00	12.35	640.00	7.32
30.00	22.89	340.00	12.14	650.00	7.13
40.00	22.70	350.00	11.89	660.00	6.95
50.00	22.82	360.00	11.61	670.00	6.78
60.00	22.80	370.00	11.28	680.00	6.71
70.00	22.80	380.00	11.05	690.00	6.62
80.00	22.81	390.00	10.97	700.00	6.45
90.00	22.77	400.00	10.75	710.00	6.36
100.00	22.73	410.00	10.58	720.00	6.29
110.00	22.72	420.00	10.43	730.00	6.24
120.00	22.67	430.00	10.21	740.00	6.14
130.00	21.18	440.00	10.03	750.00	6.08
140.00	20.93	450.00	9.90	760.00	6.01
150.00	20.45	460.00	9.73	770.00	5.98
160.00	19.70	470.00	9.53	780.00	5.94
170.00	19.09	480.00	9.34	790.00	5.83
180.00	18.35	490.00	9.19	800.00	5.78
190.00	17.67	500.00	9.12	810.00	5.75
200.00	17.12	510.00	9.00	820.00	5.66
210.00	16.66	520.00	8.81		
220.00	16.10	530.00	8.67		
230.00	15.72	540.00	8.58		
240.00	15.34	550.00	8.39		
250.00	15.04	560.00	8.27		
260.00	14.71	570.00	8.18		
270.00	14.31	580.00	8.03		
280.00	13.87	590.00	7.85		
290.00	13.46	600.00	7.72		
300.00	13.15	610.00	7.64		

Cruise: GULFCET 04  
Latitude: 27° 3.80' N

Station: 03-028  
Longitude: 94° 49.90' W

Probe Type: T-7  
Date: 22-Feb-1993

Time: 0149

Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)
0.00	22.92	310.00	14.31	620.00	7.76
10.00	22.84	320.00	13.95	630.00	7.67
20.00	22.85	330.00	13.73	640.00	7.55
30.00	22.75	340.00	13.43	650.00	7.46
40.00	22.74	350.00	12.99	660.00	7.35
50.00	22.73	360.00	12.66	670.00	7.28
60.00	22.76	370.00	12.37	680.00	7.12
70.00	22.76	380.00	12.08	690.00	7.01
80.00	22.77	390.00	11.88	700.00	6.83
90.00	22.77	400.00	11.64	710.00	6.79
100.00	22.77	410.00	11.39	720.00	6.74
110.00	22.78	420.00	11.15	730.00	6.72
120.00	22.80	430.00	10.93	740.00	6.65
130.00	22.78	440.00	10.74	750.00	6.59
140.00	22.79	450.00	10.56	760.00	6.46
150.00	22.27	460.00	10.25	770.00	6.36
160.00	21.37	470.00	10.08	780.00	6.26
170.00	20.81	480.00	9.87	790.00	6.21
180.00	19.97	490.00	9.69	800.00	6.11
190.00	19.46	500.00	9.51	810.00	6.05
200.00	18.60	510.00	9.28	820.00	5.98
210.00	18.27	520.00	9.14		
220.00	17.73	530.00	9.00		
230.00	17.21	540.00	8.95		
240.00	16.73	550.00	8.78		
250.00	16.38	560.00	8.61		
260.00	15.98	570.00	8.44		
270.00	15.65	580.00	8.27		
280.00	15.26	590.00	8.10		
290.00	14.92	600.00	7.96		
300.00	14.64	610.00	7.87		

Cruise: GULFCET 04      Station: 04-032      Probe Type: T-20  
 Latitude: 26° 37.00' N      Longitude: 94° 09.90' W      Date: 22-Feb-1993      Time: 0553

Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)
0.00	22.73	310.00	12.49
10.00	22.72	320.00	12.25
20.00	22.72	330.00	11.90
30.00	22.72	340.00	11.67
40.00	22.64	350.00	11.47
50.00	22.62	360.00	11.26
60.00	22.39	370.00	11.01
70.00	22.46	380.00	10.76
80.00	22.40	390.00	10.62
90.00	22.19	400.00	10.51
100.00	21.93	410.00	10.34
110.00	21.34	420.00	10.27
120.00	20.78	430.00	10.05
130.00	20.79	440.00	9.87
140.00	20.25	450.00	9.67
150.00	19.47	460.00	9.54
160.00	18.77	470.00	9.40
170.00	18.20	480.00	9.27
180.00	17.50	490.00	9.09
190.00	17.01	500.00	8.98
200.00	16.53	510.00	8.80
210.00	16.00	520.00	8.55
220.00	15.48	530.00	8.39
230.00	15.11	540.00	8.29
240.00	14.66	550.00	8.16
250.00	14.41		
260.00	14.22		
270.00	14.11		
280.00	13.70		
290.00	13.30		
300.00	12.96		

Cruise: GULFCET 04      Station: 04-037      Probe Type: T-20  
 Latitude: 27° 30.00' N      Longitude: 94° 09.90' W      Date: 21-Feb-1993      Time: 1928

Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)
0.00	21.88	310.00	11.22	620.00	6.78	930.00	5.16
10.00	21.27	320.00	10.97	630.00	6.66		
20.00	21.07	330.00	10.76	640.00	6.60		
30.00	20.79	340.00	10.52	650.00	6.51		
40.00	20.73	350.00	10.28	660.00	6.41		
50.00	20.58	360.00	10.13	670.00	6.31		
60.00	20.39	370.00	9.95	680.00	6.26		
70.00	20.23	380.00	9.72	690.00	6.20		
80.00	19.86	390.00	9.59	700.00	6.16		
90.00	19.08	400.00	9.41	710.00	6.11		
100.00	18.35	410.00	9.25	720.00	6.07		
110.00	17.52	420.00	9.09	730.00	6.03		
120.00	16.98	430.00	8.86	740.00	5.94		
130.00	16.64	440.00	8.77	750.00	5.93		
140.00	16.44	450.00	8.64	760.00	5.93		
150.00	16.03	460.00	8.49	770.00	5.93		
160.00	15.69	470.00	8.28	780.00	5.88		
170.00	15.24	480.00	8.14	790.00	5.81		
180.00	14.76	490.00	8.04	800.00	5.77		
190.00	14.33	500.00	7.94	810.00	5.74		
200.00	13.94	510.00	7.83	820.00	5.70		
210.00	13.69	520.00	7.72	830.00	5.67		
220.00	13.46	530.00	7.69	840.00	5.64		
230.00	13.20	540.00	7.60	850.00	5.62		
240.00	12.91	550.00	7.47	860.00	5.61		
250.00	12.63	560.00	7.39	870.00	5.55		
260.00	12.40	570.00	7.29	880.00	5.49		
270.00	12.11	580.00	7.19	890.00	5.46		
280.00	11.89	590.00	7.10	900.00	5.39		
290.00	11.71	600.00	7.02	910.00	5.22		
300.00	11.56	610.00	6.94	920.00	5.19		

Cruise: GULFCET 04  
Latitude: 27° 38.00' N

Station: 04-038  
Longitude: 94° 09.90' W

Probe Type: T-7  
Date: 21-Feb-1993

Time: 1809

Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)
0.00	21.46	310.00	11.16	620.00	6.84
10.00	21.24	320.00	10.83	630.00	6.67
20.00	21.03	330.00	10.67	640.00	6.57
30.00	20.99	340.00	10.53	650.00	6.46
40.00	20.98	350.00	10.27	660.00	6.42
50.00	20.96	360.00	10.15	670.00	6.39
60.00	20.77	370.00	9.95	680.00	6.33
70.00	20.48	380.00	9.72	690.00	6.29
80.00	19.86	390.00	9.56	700.00	6.27
90.00	19.44	400.00	9.43	710.00	6.24
100.00	18.45	410.00	9.29	720.00	6.21
110.00	17.78	420.00	9.16	730.00	6.19
120.00	17.40	430.00	9.08	740.00	6.14
130.00	16.98	440.00	9.01		
140.00	16.49	450.00	8.85		
150.00	16.25	460.00	8.75		
160.00	15.77	470.00	8.62		
170.00	15.22	480.00	8.47		
180.00	14.86	490.00	8.33		
190.00	14.66	500.00	8.20		
200.00	14.24	510.00	8.09		
210.00	13.86	520.00	7.97		
220.00	13.51	530.00	7.81		
230.00	13.27	540.00	7.72		
240.00	12.93	550.00	7.64		
250.00	12.57	560.00	7.52		
260.00	12.31	570.00	7.37		
270.00	12.05	580.00	7.32		
280.00	11.84	590.00	7.22		
290.00	11.47	600.00	7.06		
300.00	11.30	610.00	6.94		

Cruise: GULFCET 04  
Latitude: 27° 41.00' N

Station: 04-039  
Longitude: 94° 09.90' W

Probe Type: T-7  
Date: 21-Feb-1993

Time: 1740

Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)
0.00	21.22	310.00	10.75
10.00	20.99	320.00	10.65
20.00	20.90	330.00	10.58
30.00	20.83	340.00	10.49
40.00	20.82	350.00	10.44
50.00	20.82	360.00	10.38
60.00	20.78	370.00	10.27
70.00	20.79	380.00	10.08
80.00	19.94	390.00	9.88
90.00	18.57	400.00	9.75
100.00	17.80	410.00	9.56
110.00	17.51	420.00	9.48
120.00	17.04	430.00	9.37
130.00	16.63	440.00	8.98
140.00	16.34	450.00	8.84
150.00	16.06	460.00	8.63
160.00	15.66	470.00	8.52
170.00	15.34	480.00	8.39
180.00	14.76	490.00	8.29
190.00	14.35	500.00	8.29
200.00	14.14	510.00	8.20
210.00	13.78	520.00	8.07
220.00	13.50	530.00	7.92
230.00	13.17		
240.00	12.75		
250.00	12.47		
260.00	12.12		
270.00	11.77		
280.00	11.50		
290.00	11.13		
300.00	10.90		

Cruise: GULFCET 04  
Latitude: 27° 44.00' N

Station: 04-040  
Longitude: 94° 10.00' W

Probe Type: T-7  
Date: 21-Feb-1993

Time: 1709

Depth (m)	Temp. (°C)
0.00	22.01
10.00	20.99
20.00	20.84
30.00	20.82
40.00	20.80
50.00	20.80
60.00	20.79
70.00	20.73
80.00	20.39
90.00	19.47
100.00	18.53
110.00	17.97
120.00	17.50
130.00	17.02
140.00	16.51
150.00	16.13
160.00	15.73
170.00	15.31
180.00	15.02
190.00	14.61
200.00	14.26
210.00	14.04
220.00	13.68
230.00	13.37
240.00	12.83
250.00	12.40
260.00	12.10
270.00	11.92
280.00	11.84
290.00	11.77
300.00	11.68

Cruise: GULFCET 04  
Latitude: 27° 49.50' N

Station: 04-041  
Longitude: 94° 09.90' W

Probe Type: T-10  
Date: 21-Feb-1993

Time: 1615

Depth (m)	Temp. (°C)
0.00	21.05
10.00	20.80
20.00	20.78
30.00	20.78
40.00	20.78
50.00	20.76
60.00	20.68
70.00	20.29
80.00	20.11
90.00	19.88
100.00	18.49
110.00	17.90
120.00	17.07
130.00	16.46
140.00	16.00
150.00	15.74
160.00	15.45
170.00	15.43
180.00	15.35

**Cruise:** GULFCET 04      **Station:** 05-044      **Probe Type:** T-10  
**Latitude:** 27° 37.90' N      **Longitude:** 93° 30.00' W      **Date:** 21-Feb-1993      **Time:** 0850

Depth (m)	Temp. (°C)
0.00	20.80
10.00	20.63
20.00	20.63
30.00	20.58
40.00	20.51
50.00	20.50
60.00	20.49
70.00	20.50
80.00	20.49
90.00	20.46
100.00	19.62
110.00	18.83
120.00	18.29
130.00	17.67
140.00	16.70
150.00	16.13
160.00	15.73
170.00	15.11
180.00	14.59
190.00	14.12

**Cruise:** GULFCET 04      **Station:** 05-045      **Probe Type:** T-7  
**Latitude:** 27° 34.90' N      **Longitude:** 93° 29.90' W      **Date:** 21-Feb-1993      **Time:** 0633

Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)
0.00	21.25	310.00	11.89
10.00	20.75	320.00	11.72
20.00	20.75		
30.00	20.73		
40.00	20.73		
50.00	20.64		
60.00	20.63		
70.00	20.63		
80.00	20.63		
90.00	20.63		
100.00	19.80		
110.00	18.88		
120.00	18.52		
130.00	17.53		
140.00	16.98		
150.00	16.26		
160.00	15.75		
170.00	15.35		
180.00	14.76		
190.00	14.46		
200.00	14.25		
210.00	13.56		
220.00	13.33		
230.00	13.11		
240.00	12.67		
250.00	12.54		
260.00	12.45		
270.00	12.29		
280.00	12.17		
290.00	12.06		
300.00	11.99		

Cruise: GULFCET 04      Station: 05-046      Probe Type: T-7  
 Latitude: 27° 33.00' N      Longitude: 93° 29.90' W      Date: 21-Feb-1993      Time: 0611

Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)
0.00	20.91	310.00	11.04
10.00	20.57	320.00	10.78
20.00	20.57	330.00	10.69
30.00	20.57	340.00	10.59
40.00	20.54	350.00	10.46
50.00	20.53	360.00	10.41
60.00	20.52	370.00	10.20
70.00	20.42	380.00	10.16
80.00	20.41	390.00	9.87
90.00	20.37	400.00	9.61
100.00	20.12	410.00	9.48
110.00	18.93	420.00	9.43
120.00	17.97	430.00	9.13
130.00	17.38	440.00	9.10
140.00	16.71	450.00	8.92
150.00	16.33		
160.00	15.83		
170.00	15.35		
180.00	14.82		
190.00	14.32		
200.00	13.90		
210.00	13.56		
220.00	13.30		
230.00	13.00		
240.00	12.53		
250.00	12.31		
260.00	11.99		
270.00	11.87		
280.00	11.63		
290.00	11.51		
300.00	11.39		

Cruise: GULFCET 04      Station: 05-048      Probe Type: T-7  
 Latitude: 27° 21.00' N      Longitude: 93° 29.90' W      Date: 21-Feb-1993      Time: 0330

Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)
0.00	20.75	310.00	10.81	620.00	6.40
10.00	20.65	320.00	10.55	630.00	6.37
20.00	20.60	330.00	10.34	640.00	6.35
30.00	20.48	340.00	10.16	650.00	6.27
40.00	20.47	350.00	9.87	660.00	6.26
50.00	20.45	360.00	9.68	670.00	6.21
60.00	20.46	370.00	9.58		
70.00	20.47	380.00	9.37		
80.00	19.94	390.00	9.28		
90.00	19.31	400.00	9.06		
100.00	18.94	410.00	9.02		
110.00	18.52	420.00	8.71		
120.00	17.82	430.00	8.59		
130.00	17.31	440.00	8.40		
140.00	16.94	450.00	8.16		
150.00	16.44	460.00	7.98		
160.00	16.00	470.00	7.92		
170.00	15.61	480.00	7.87		
180.00	15.19	490.00	7.84		
190.00	14.86	500.00	7.71		
200.00	14.41	510.00	7.43		
210.00	13.97	520.00	7.26		
220.00	13.59	530.00	7.15		
230.00	13.23	540.00	7.06		
240.00	12.95	550.00	6.87		
250.00	12.55	560.00	6.80		
260.00	12.22	570.00	6.75		
270.00	11.80	580.00	6.67		
280.00	11.62	590.00	6.59		
290.00	11.41	600.00	6.53		
300.00	11.02	610.00	6.47		

Cruise: GULFCET 04  
Latitude: 27° 06.00' N

Station: 05-049  
Longitude: 93° 29.90' W

Probe Type: T-20  
Date: 21-Feb-1993 Time: 0100

Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)
0.00	21.77	310.00	10.90	620.00	6.34
10.00	21.49	320.00	10.73	630.00	6.22
20.00	21.46	330.00	10.46	640.00	6.15
30.00	20.94	340.00	10.21	650.00	6.06
40.00	20.88	350.00	9.91	660.00	5.97
50.00	20.84	360.00	9.71	670.00	5.93
60.00	20.83	370.00	9.58	680.00	5.86
70.00	20.44	380.00	9.44	690.00	5.82
80.00	20.24	390.00	9.24	700.00	5.78
90.00	19.68	400.00	9.15	710.00	5.74
100.00	19.12	410.00	8.92	720.00	5.70
110.00	18.46	420.00	8.81	730.00	5.68
120.00	17.86	430.00	8.67	740.00	5.62
130.00	17.43	440.00	8.53	750.00	5.58
140.00	16.98	450.00	8.46	760.00	5.55
150.00	16.55	460.00	8.39	770.00	5.49
160.00	16.06	470.00	8.14	780.00	5.45
170.00	15.62	480.00	7.94	790.00	5.39
180.00	15.16	490.00	7.71	800.00	5.34
190.00	14.72	500.00	7.62	810.00	5.30
200.00	14.18	510.00	7.48	820.00	5.27
210.00	13.83	520.00	7.37	830.00	5.27
220.00	13.40	530.00	7.21	840.00	5.27
230.00	13.10	540.00	7.09	850.00	5.26
240.00	12.84	550.00	6.94	860.00	5.24
250.00	12.42	560.00	6.85	870.00	5.24
260.00	12.16	570.00	6.76	880.00	5.23
270.00	12.01	580.00	6.65	890.00	5.24
280.00	11.73	590.00	6.58	900.00	5.24
290.00	11.49	600.00	6.51		
300.00	11.18	610.00	6.47		

Cruise: GULFCET 04  
Latitude: 26° 43.10' N

Station: 05-051  
Longitude: 93° 30.00' W

Probe Type: T-20  
Date: 20-Feb-1993 Time: 2004

Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)
0.00	21.53	310.00	11.47	620.00	6.70	930.00	4.91
10.00	21.54	320.00	11.21	630.00	6.58	940.00	4.85
20.00	21.52	330.00	11.04	640.00	6.46	950.00	4.83
30.00	21.09	340.00	10.71	650.00	6.38	960.00	4.81
40.00	21.06	350.00	10.59	660.00	6.28	970.00	4.75
50.00	21.05	360.00	10.41	670.00	6.21	980.00	4.71
60.00	21.05	370.00	10.30	680.00	6.16	990.00	4.69
70.00	20.97	380.00	9.98	690.00	6.10		
80.00	20.85	390.00	9.76	700.00	6.06		
90.00	20.58	400.00	9.64	710.00	5.97		
100.00	20.43	410.00	9.50	720.00	5.92		
110.00	20.03	420.00	9.37	730.00	5.87		
120.00	19.48	430.00	9.19	740.00	5.77		
130.00	18.63	440.00	9.11	750.00	5.71		
140.00	18.05	450.00	8.89	760.00	5.64		
150.00	17.36	460.00	8.72	770.00	5.61		
160.00	16.82	470.00	8.50	780.00	5.55		
170.00	16.28	480.00	8.35	790.00	5.48		
180.00	15.85	490.00	8.16	800.00	5.42		
190.00	15.51	500.00	8.07	810.00	5.37		
200.00	15.04	510.00	7.90	820.00	5.35		
210.00	14.60	520.00	7.75	830.00	5.30		
220.00	14.21	530.00	7.65	840.00	5.26		
230.00	13.75	540.00	7.60	850.00	5.22		
240.00	13.51	550.00	7.46	860.00	5.19		
250.00	13.13	560.00	7.31	870.00	5.12		
260.00	12.79	570.00	7.22	880.00	5.08		
270.00	12.54	580.00	7.10	890.00	5.04		
280.00	12.27	590.00	6.96	900.00	5.02		
290.00	11.97	600.00	6.89	910.00	4.98		
300.00	11.76	610.00	6.78	920.00	4.95		

Cruise: GULFCET 04  
Latitude: 26° 52.00' N

Station: 06-056  
Longitude: 92° 49.90' W

Probe Type: T-20  
Date: 20-Feb-1993 Time: 0141

Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)
0.00	20.93	310.00	10.86	620.00	6.50	930.00	4.94
10.00	20.86	320.00	10.68	630.00	6.40	940.00	4.92
20.00	20.86	330.00	10.50	640.00	6.33	950.00	4.91
30.00	20.85	340.00	10.30	650.00	6.25	960.00	4.89
40.00	20.85	350.00	10.18	660.00	6.18	970.00	4.87
50.00	20.84	360.00	10.03	670.00	6.13	980.00	4.85
60.00	20.82	370.00	9.83	680.00	6.08	990.00	4.81
70.00	20.83	380.00	9.65	690.00	6.01		
80.00	20.00	390.00	9.37	700.00	5.95		
90.00	19.00	400.00	9.25	710.00	5.90		
100.00	18.51	410.00	9.01	720.00	5.85		
110.00	17.96	420.00	8.87	730.00	5.79		
120.00	17.26	430.00	8.73	740.00	5.70		
130.00	16.72	440.00	8.63	750.00	5.69		
140.00	16.38	450.00	8.53	760.00	5.66		
150.00	15.93	460.00	8.37	770.00	5.60		
160.00	15.45	470.00	8.28	780.00	5.55		
170.00	15.12	480.00	8.12	790.00	5.49		
180.00	14.67	490.00	7.95	800.00	5.44		
190.00	14.34	500.00	7.84	810.00	5.39		
200.00	14.07	510.00	7.72	820.00	5.34		
210.00	13.81	520.00	7.64	830.00	5.29		
220.00	13.47	530.00	7.49	840.00	5.26		
230.00	13.04	540.00	7.39	850.00	5.17		
240.00	12.76	550.00	7.25	860.00	5.11		
250.00	12.44	560.00	7.12	870.00	5.07		
260.00	12.22	570.00	6.97	880.00	5.05		
270.00	11.94	580.00	6.89	890.00	4.99		
280.00	11.62	590.00	6.82	900.00	4.98		
290.00	11.39	600.00	6.74	910.00	4.96		
300.00	11.16	610.00	6.62	920.00	4.95		

Cruise: GULFCET 04  
Latitude: 27° 18.80' N

Station: 06-058  
Longitude: 92° 50.00' W

Probe Type: T-20  
Date: 19-Feb-1993 Time: 2121

Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)
0.00	20.85	310.00	10.89	620.00	6.49	930.00	5.18
10.00	20.79	320.00	10.72	630.00	6.41	940.00	5.18
20.00	20.79	330.00	10.47	640.00	6.36	950.00	5.15
30.00	20.77	340.00	10.29	650.00	6.29	960.00	5.12
40.00	20.78	350.00	10.06	660.00	6.26	970.00	5.11
50.00	20.78	360.00	9.78	670.00	6.19	980.00	5.09
60.00	20.77	370.00	9.59	680.00	6.12	990.00	5.02
70.00	20.77	380.00	9.39	690.00	6.05		
80.00	19.84	390.00	9.27	700.00	5.96		
90.00	19.11	400.00	9.16	710.00	5.93		
100.00	18.45	410.00	9.03	720.00	5.86		
110.00	17.74	420.00	8.95	730.00	5.77		
120.00	17.16	430.00	8.85	740.00	5.73		
130.00	16.62	440.00	8.71	750.00	5.64		
140.00	16.15	450.00	8.57	760.00	5.63		
150.00	15.91	460.00	8.44	770.00	5.59		
160.00	15.53	470.00	8.34	780.00	5.58		
170.00	15.14	480.00	8.18	790.00	5.57		
180.00	14.65	490.00	7.95	800.00	5.46		
190.00	14.27	500.00	7.76	810.00	5.42		
200.00	13.97	510.00	7.65	820.00	5.39		
210.00	13.72	520.00	7.56	830.00	5.37		
220.00	13.41	530.00	7.46	840.00	5.35		
230.00	13.13	540.00	7.37	850.00	5.33		
240.00	12.81	550.00	7.15	860.00	5.28		
250.00	12.58	560.00	7.05	870.00	5.22		
260.00	12.30	570.00	6.93	880.00	5.22		
270.00	11.93	580.00	6.84	890.00	5.21		
280.00	11.69	590.00	6.76	900.00	5.21		
290.00	11.41	600.00	6.66	910.00	5.21		
300.00	11.13	610.00	6.62	920.00	5.19		



Cruise: GULFCET 04  
Latitude: 27° 33.70' N

Station: 06-060  
Longitude: 92° 49.50' W

Probe Type: T-7  
Date: 19-Feb-1993

Time: 1745

Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)
0.00	20.81	310.00	11.34	620.00	6.91
10.00	20.69	320.00	11.12	630.00	6.91
20.00	20.69	330.00	10.70	640.00	6.78
30.00	20.69	340.00	10.52	650.00	6.67
40.00	20.70	350.00	10.32	660.00	6.42
50.00	20.67	360.00	10.15		
60.00	20.68	370.00	9.96		
70.00	20.63	380.00	9.69		
80.00	20.59	390.00	9.64		
90.00	19.37	400.00	9.53		
100.00	18.64	410.00	9.36		
110.00	18.24	420.00	9.19		
120.00	17.81	430.00	9.06		
130.00	17.19	440.00	8.85		
140.00	16.60	450.00	8.76		
150.00	16.14	460.00	8.69		
160.00	15.82	470.00	8.63		
170.00	15.29	480.00	8.56		
180.00	14.91	490.00	8.47		
190.00	14.61	500.00	8.40		
200.00	14.41	510.00	8.32		
210.00	14.11	520.00	8.19		
220.00	13.53	530.00	7.87		
230.00	13.31	540.00	7.74		
240.00	13.09	550.00	7.58		
250.00	12.94	560.00	7.36		
260.00	12.55	570.00	7.29		
270.00	12.25	580.00	7.26		
280.00	11.95	590.00	7.18		
290.00	11.69	600.00	7.04		
300.00	11.50	610.00	6.99		

Cruise: GULFCET 04  
Latitude: 27° 43.00' N

Station: 06-062  
Longitude: 92° 50.00' W

Probe Type: T-7  
Date: 19-Feb-1993

Time: 1545

Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)
0.00	20.63	310.00	11.35
10.00	20.50	320.00	11.28
20.00	20.50		
30.00	20.49		
40.00	20.48		
50.00	20.47		
60.00	20.45		
70.00	20.42		
80.00	20.40		
90.00	20.38		
100.00	19.78		
110.00	19.10		
120.00	18.28		
130.00	17.53		
140.00	16.87		
150.00	16.03		
160.00	15.69		
170.00	15.11		
180.00	14.77		
190.00	14.09		
200.00	13.89		
210.00	13.58		
220.00	13.40		
230.00	13.01		
240.00	12.72		
250.00	12.35		
260.00	11.85		
270.00	11.82		
280.00	11.63		
290.00	11.44		
300.00	11.35		

Cruise: GULFCET 04  
Latitude: 27° 54.50' N

Station: 06-063  
Longitude: 92° 50.00' W

Probe Type: T-10  
Date: 19-Feb-1993  
Time: 1351

Depth (m)	Temp. (°C)
0.00	20.96
10.00	20.57
20.00	20.57
30.00	20.56
40.00	20.55
50.00	20.55
60.00	20.51
70.00	20.47
80.00	20.32
90.00	20.04
100.00	19.36
110.00	18.71
120.00	18.11
130.00	17.35
140.00	16.76
150.00	16.08
160.00	15.37
170.00	15.03
180.00	14.71
190.00	14.22

Cruise: GULFCET 04  
Latitude: 27° 52.90' N

Station: 07-066  
Longitude: 92° 10.00' W

Probe Type: T-10  
Date: 19-Feb-1993  
Time: 0647

Depth (m)	Temp. (°C)
0.00	20.69
10.00	20.65
20.00	20.65
30.00	20.66
40.00	20.65
50.00	20.65
60.00	20.53
70.00	20.47
80.00	20.40
90.00	20.16
100.00	19.32
110.00	18.70
120.00	17.92
130.00	17.09
140.00	16.80
150.00	16.34
160.00	15.95
170.00	15.36
180.00	15.06
190.00	14.71
200.00	14.42
210.00	14.14

Cruise: GULFCET 04  
Latitude: 27° 52.20' N

Station: 07-067  
Longitude: 92° 09.90' W

Probe Type: T-7  
Date: 19-Feb-1993 Time: 0635

Depth (m)	Temp. (°C)
0.00	20.72
10.00	20.70
20.00	20.70
30.00	20.70
40.00	20.70
50.00	20.70
60.00	20.70
70.00	20.70
80.00	20.42
90.00	20.26
100.00	19.53
110.00	19.00
120.00	18.20
130.00	17.56
140.00	17.09
150.00	16.71
160.00	16.29
170.00	15.92
180.00	15.61
190.00	14.95
200.00	14.50
210.00	14.23
220.00	13.87
230.00	13.77
240.00	13.36
250.00	13.11
260.00	12.90
270.00	12.65
280.00	12.52

Cruise: GULFCET 04  
Latitude: 27° 44.80' N

Station: 07-068  
Longitude: 92° 10.00' W

Probe Type: T-7  
Date: 19-Feb-1993 Time: 0530

Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)
0.00	20.64	310.00	11.40
10.00	20.61	320.00	11.25
20.00	20.60	330.00	11.03
30.00	20.60	340.00	10.79
40.00	20.61	350.00	10.51
50.00	20.62	360.00	10.29
60.00	20.61	370.00	10.00
70.00	20.62	380.00	9.85
80.00	20.62	390.00	9.71
90.00	20.53	400.00	9.63
100.00	19.84	410.00	9.45
110.00	18.72	420.00	9.34
120.00	17.96	430.00	9.21
130.00	17.49	440.00	9.16
140.00	16.83	450.00	9.00
150.00	16.35	460.00	8.84
160.00	15.97	470.00	8.62
170.00	15.56	480.00	8.52
180.00	15.13		
190.00	14.69		
200.00	14.18		
210.00	13.93		
220.00	13.77		
230.00	13.39		
240.00	13.03		
250.00	12.73		
260.00	12.57		
270.00	12.46		
280.00	12.19		
290.00	11.91		
300.00	11.69		

Cruise: GULFCET 04      Station: 07-069      Probe Type: T-7  
 Latitude: 27° 37.00' N      Longitude: 92° 09.90' W      Date: 19-Feb-1993      Time: 0414

Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)
0.00	20.81	310.00	11.11	620.00	6.71
10.00	20.75	320.00	10.87	630.00	6.58
20.00	20.73	330.00	10.48	640.00	6.42
30.00	20.75	340.00	10.23	650.00	6.32
40.00	20.75	350.00	10.04	660.00	6.24
50.00	20.74	360.00	9.89	670.00	6.19
60.00	20.75	370.00	9.73	680.00	6.13
70.00	20.76	380.00	9.61	690.00	6.07
80.00	20.75	390.00	9.49		
90.00	20.13	400.00	9.42		
100.00	19.43	410.00	9.32		
110.00	18.68	420.00	9.26		
120.00	18.16	430.00	9.20		
130.00	17.65	440.00	9.03		
140.00	17.16	450.00	8.94		
150.00	16.51	460.00	8.81		
160.00	15.99	470.00	8.47		
170.00	15.65	480.00	8.24		
180.00	15.35	490.00	8.08		
190.00	14.98	500.00	7.90		
200.00	14.74	510.00	7.77		
210.00	14.37	520.00	7.57		
220.00	13.88	530.00	7.45		
230.00	13.43	540.00	7.34		
240.00	13.15	550.00	7.24		
250.00	12.81	560.00	7.19		
260.00	12.38	570.00	7.13		
270.00	12.05	580.00	7.04		
280.00	11.75	590.00	6.97		
290.00	11.53	600.00	6.87		
300.00	11.31	610.00	6.77		

Cruise: GULFCET 04      Station: 07-070      Probe Type: T-20  
 Latitude: 27° 29.40' N      Longitude: 92° 09.90' W      Date: 19-Feb-1993      Time: 0305

Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)
0.00	20.86	310.00	11.26	620.00	6.48
10.00	20.89	320.00	11.08	630.00	6.39
20.00	20.88	330.00	10.86	640.00	6.34
30.00	20.87	340.00	10.63	650.00	6.31
40.00	20.87	350.00	10.38	660.00	6.25
50.00	20.88	360.00	10.21	670.00	6.21
60.00	20.87	370.00	9.97	680.00	6.13
70.00	20.85	380.00	9.71	690.00	6.04
80.00	20.41	390.00	9.52	700.00	6.03
90.00	19.55	400.00	9.27	710.00	6.00
100.00	19.13	410.00	9.08	720.00	5.96
110.00	18.72	420.00	8.91	730.00	5.86
120.00	18.03	430.00	8.72	740.00	5.80
130.00	17.61	440.00	8.61	750.00	5.79
140.00	16.98	450.00	8.48	760.00	5.74
150.00	16.48	460.00	8.34	770.00	5.71
160.00	16.07	470.00	8.18	780.00	5.69
170.00	15.70	480.00	8.00	790.00	5.63
180.00	15.29	490.00	7.80	800.00	5.48
190.00	14.78	500.00	7.70	810.00	5.43
200.00	14.45	510.00	7.57	820.00	5.41
210.00	14.10	520.00	7.51		
220.00	13.80	530.00	7.30		
230.00	13.48	540.00	7.21		
240.00	13.18	550.00	7.09		
250.00	12.81	560.00	6.96		
260.00	12.50	570.00	6.82		
270.00	12.25	580.00	6.73		
280.00	12.04	590.00	6.67		
290.00	11.75	600.00	6.59		
300.00	11.51	610.00	6.53		

Cruise: GULFCET 04 Station: 07-072 Probe Type: T-20  
 Latitude: 27° 10.00' N Longitude: 92° 09.90' W Date: 18-Feb-1993 Time: 2308

Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)
0.00	20.81	310.00	11.20	620.00	6.65	930.00	5.14
10.00	20.77	320.00	11.00	630.00	6.56	940.00	5.10
20.00	20.73	330.00	10.84	640.00	6.49	950.00	5.09
30.00	20.72	340.00	10.58	650.00	6.41	960.00	4.95
40.00	20.72	350.00	10.37	660.00	6.34	970.00	4.95
50.00	20.72	360.00	10.22	670.00	6.23	980.00	4.90
60.00	20.72	370.00	10.12	680.00	6.16	990.00	4.89
70.00	20.72	380.00	9.86	690.00	6.06		
80.00	20.30	390.00	9.67	700.00	5.96		
90.00	19.75	400.00	9.47	710.00	5.88		
100.00	19.13	410.00	9.35	720.00	5.83		
110.00	18.36	420.00	9.15	730.00	5.77		
120.00	17.84	430.00	8.99	740.00	5.74		
130.00	17.31	440.00	8.82	750.00	5.69		
140.00	16.77	450.00	8.65	760.00	5.62		
150.00	16.34	460.00	8.43	770.00	5.60		
160.00	15.91	470.00	8.27	780.00	5.57		
170.00	15.43	480.00	8.11	790.00	5.53		
180.00	15.02	490.00	8.02	800.00	5.52		
190.00	14.69	500.00	7.88	810.00	5.48		
200.00	14.38	510.00	7.76	820.00	5.44		
210.00	13.96	520.00	7.66	830.00	5.43		
220.00	13.64	530.00	7.56	840.00	5.38		
230.00	13.26	540.00	7.42	850.00	5.35		
240.00	12.97	550.00	7.36	860.00	5.30		
250.00	12.76	560.00	7.30	870.00	5.26		
260.00	12.41	570.00	7.17	880.00	5.23		
270.00	12.20	580.00	7.06	890.00	5.16		
280.00	11.91	590.00	6.93	900.00	5.12		
290.00	11.65	600.00	6.81	910.00	5.08		
300.00	11.38	610.00	6.73	920.00	5.06		

Cruise: GULFCET 04 Station: 08-079 Probe Type: T-20  
 Latitude: 27° 23.00' N Longitude: 91° 30.00' W Date: 17-Feb-1993 Time: 2100

Depth (m)	Temp. (°C)
0.00	20.72
10.00	20.79
20.00	20.81
30.00	20.86
40.00	20.98
50.00	21.05
60.00	20.74
70.00	20.47
80.00	19.98
90.00	19.63
100.00	19.08
110.00	18.45
120.00	18.01
130.00	17.47
140.00	16.83
150.00	16.25
160.00	15.68
170.00	15.15
180.00	14.66
190.00	14.36
200.00	13.96
210.00	13.72
220.00	13.40
230.00	13.12
240.00	12.78
250.00	12.53
260.00	12.39
270.00	12.18
280.00	11.93
290.00	11.62
300.00	11.38

Cruise: GULFCET 04      Station: 08-081      Probe Type: T-20  
 Latitude: 27° 33.00' N      Longitude: 91° 30.00' W      Date: 17-Feb-1993      Time: 1817

Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)
0.00	20.42	310.00	11.66	620.00	7.22
10.00	20.46	320.00	11.41	630.00	7.12
20.00	20.94	330.00	11.28	640.00	7.00
30.00	21.08	340.00	11.28	650.00	6.89
40.00	21.12	350.00	11.03	660.00	6.79
50.00	20.98	360.00	10.80	670.00	6.70
60.00	21.14	370.00	10.64	680.00	6.59
70.00	21.14	380.00	10.62	690.00	6.53
80.00	20.92	390.00	10.57	700.00	6.46
90.00	20.31	400.00	10.43	710.00	6.36
100.00	20.13	410.00	10.35	720.00	6.29
110.00	18.98	420.00	10.22	730.00	6.26
120.00	18.51	430.00	9.96	740.00	6.21
130.00	18.03	440.00	9.84	750.00	6.17
140.00	17.30	450.00	9.61	760.00	6.12
150.00	16.66	460.00	9.38	770.00	6.06
160.00	16.38	470.00	9.31	780.00	5.99
170.00	15.99	480.00	9.18	790.00	6.13
180.00	15.41	490.00	8.88	800.00	5.98
190.00	14.77	500.00	8.61	810.00	5.88
200.00	14.40	510.00	8.47	820.00	5.82
210.00	14.21	520.00	8.28	830.00	5.73
220.00	13.95	530.00	8.19	840.00	5.69
230.00	13.71	540.00	8.03	850.00	5.66
240.00	13.34	550.00	7.85	860.00	5.59
250.00	13.25	560.00	7.66	870.00	5.56
260.00	12.96	570.00	7.58	880.00	5.54
270.00	12.60	580.00	7.50	890.00	5.54
280.00	12.35	590.00	7.43	900.00	5.54
290.00	12.25	600.00	7.37	910.00	5.54
300.00	11.91	610.00	7.31		

Cruise: GULFCET 04      Station: 08-082      Probe Type: T-7  
 Latitude: 27° 45.50' N      Longitude: 91° 30.00' W      Date: 17-Feb-1993      Time: 1617

Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)
0.00	20.51	310.00	11.30	620.00	6.52
10.00	20.50	320.00	11.10	630.00	6.44
20.00	20.54	330.00	10.90	640.00	6.36
30.00	20.76	340.00	10.65	650.00	6.28
40.00	20.74	350.00	10.33	660.00	6.21
50.00	20.75	360.00	10.15	670.00	6.14
60.00	20.74	370.00	9.97	680.00	6.10
70.00	20.75	380.00	9.86	690.00	6.06
80.00	20.74	390.00	9.71	700.00	6.03
90.00	20.40	400.00	9.64		
100.00	19.42	410.00	9.58		
110.00	18.83	420.00	9.51		
120.00	18.41	430.00	9.27		
130.00	17.53	440.00	9.07		
140.00	16.78	450.00	8.78		
150.00	16.19	460.00	8.50		
160.00	15.85	470.00	8.29		
170.00	15.44	480.00	8.14		
180.00	15.03	490.00	8.00		
190.00	14.52	500.00	7.93		
200.00	14.28	510.00	7.81		
210.00	13.84	520.00	7.69		
220.00	13.62	530.00	7.57		
230.00	13.26	540.00	7.21		
240.00	13.10	550.00	7.11		
250.00	12.64	560.00	7.04		
260.00	12.45	570.00	6.98		
270.00	12.26	580.00	6.84		
280.00	12.05	590.00	6.73		
290.00	11.83	600.00	6.70		
300.00	11.66	610.00	6.67		

Cruise: GULFCET 04  
Latitude: 27° 49.50' N

Station: 08-083  
Longitude: 91° 30.00' W

Probe Type: T-7  
Date: 17-Feb-1993 Time: 1540

Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)
0.00	20.46	310.00	11.64
10.00	20.37	320.00	11.39
20.00	20.72	330.00	11.27
30.00	20.85	340.00	11.12
40.00	20.85	350.00	10.93
50.00	20.82	360.00	10.40
60.00	20.73		
70.00	20.59		
80.00	20.53		
90.00	20.22		
100.00	19.05		
110.00	18.40		
120.00	17.71		
130.00	17.21		
140.00	16.86		
150.00	16.26		
160.00	15.92		
170.00	15.38		
180.00	14.99		
190.00	14.70		
200.00	14.34		
210.00	14.11		
220.00	13.73		
230.00	13.55		
240.00	13.37		
250.00	13.16		
260.00	12.81		
270.00	12.64		
280.00	12.25		
290.00	11.99		
300.00	11.82		

Cruise: GULFCET 04  
Latitude: 27° 52.00' N

Station: 08-084  
Longitude: 91° 30.00' W

Probe Type: T-7  
Date: 17-Feb-1993 Time: 1517

Depth (m)	Temp. (°C)
0.00	20.45
10.00	20.26
20.00	20.54
30.00	20.82
40.00	20.87
50.00	20.83
60.00	20.69
70.00	20.58
80.00	20.56
90.00	20.42
100.00	19.33
110.00	18.79
120.00	17.83
130.00	17.57
140.00	17.03
150.00	16.35
160.00	15.59
170.00	15.33
180.00	15.08
190.00	14.72
200.00	14.30
210.00	14.04
220.00	13.99
230.00	13.82
240.00	13.55
250.00	13.11
260.00	13.05

Cruise: GULFCET 04  
Latitude: 27° 52.90' N

Station: 08-085  
Longitude: 91° 30.00' W

Probe Type: T-10  
Date: 17-Feb-1993

Time: 1508

Depth (m)	Temp. (°C)
0.00	20.30
10.00	20.21
20.00	20.50
30.00	20.82
40.00	20.85
50.00	20.83
60.00	20.69
70.00	20.55
80.00	20.51
90.00	20.15
100.00	18.98
110.00	18.56
120.00	17.83
130.00	17.11
140.00	16.69
150.00	16.21
160.00	15.74
170.00	15.42
180.00	15.30
190.00	14.84

Cruise: GULFCET 04  
Latitude: 28° 03.00' N

Station: 09-088  
Longitude: 90° 49.90' W

Probe Type: T-10  
Date: 17-Feb-1993

Time: 0704

Depth (m)	Temp. (°C)
0.00	19.97
10.00	21.05
20.00	21.67
30.00	21.69
40.00	21.45
50.00	20.86
60.00	20.71
70.00	20.51
80.00	19.88
90.00	19.22
100.00	18.19
110.00	17.57
120.00	17.30
130.00	16.98
140.00	16.91
150.00	16.74
160.00	16.51
170.00	16.25
180.00	15.87
190.00	14.63



Cruise: GULFCET 04  
Latitude: 28° 00.00' N

Station: 09-089  
Longitude: 90° 49.90' W

Probe Type: T-7  
Date: 17-Feb-1993

Time: 0639

Depth (m)	Temp. (°C)
0.00	20.74
10.00	21.16
20.00	21.87
30.00	21.68
40.00	21.36
50.00	21.26
60.00	20.64
70.00	20.00
80.00	19.72
90.00	18.68
100.00	18.16
110.00	17.38
120.00	16.68
130.00	16.46
140.00	16.39
150.00	16.12
160.00	15.84
170.00	15.62
180.00	15.00
190.00	14.52
200.00	14.20
210.00	13.86
220.00	13.55
230.00	13.17
240.00	12.88
250.00	12.77
260.00	12.50
270.00	12.46
280.00	12.32
290.00	12.16
300.00	11.68

Cruise: GULFCET 04  
Latitude: 27° 52.00' N

Station: 09-090  
Longitude: 90° 50.00' W

Probe Type: T-7  
Date: 17-Feb-1993

Time: 0514

Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)
0.00	21.48	310.00	11.21
10.00	21.48	320.00	11.05
20.00	21.49	330.00	10.82
30.00	21.40	340.00	10.72
40.00	20.94	350.00	10.28
50.00	20.75	360.00	10.06
60.00	20.50	370.00	9.62
70.00	19.75	380.00	9.26
80.00	19.06	390.00	9.06
90.00	18.01	400.00	8.92
100.00	17.58		
110.00	16.98		
120.00	16.62		
130.00	16.44		
140.00	15.87		
150.00	15.48		
160.00	15.19		
170.00	14.71		
180.00	14.29		
190.00	14.11		
200.00	13.74		
210.00	13.36		
220.00	13.04		
230.00	12.80		
240.00	12.61		
250.00	12.34		
260.00	12.00		
270.00	11.54		
280.00	11.40		
290.00	11.39		
300.00	11.32		

Cruise: GULFCET 04  
Latitude: 27° 45.90' N

Station: 09-091  
Longitude: 90° 50.00' W

Probe Type: T-7  
Date: 17-Feb-1993

Time: 0414

Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)
0.00	21.71	310.00	10.80
10.00	21.70	320.00	10.61
20.00	21.71	330.00	10.36
30.00	21.13	340.00	10.13
40.00	20.70	350.00	9.88
50.00	20.50		
60.00	19.90		
70.00	19.18		
80.00	18.70		
90.00	17.96		
100.00	17.58		
110.00	17.04		
120.00	16.49		
130.00	15.98		
140.00	15.48		
150.00	14.99		
160.00	14.69		
170.00	14.45		
180.00	13.80		
190.00	13.53		
200.00	13.23		
210.00	12.88		
220.00	12.66		
230.00	12.42		
240.00	12.22		
250.00	11.92		
260.00	11.71		
270.00	11.58		
280.00	11.40		
290.00	11.19		
300.00	10.98		

Cruise: GULFCET 04  
Latitude: 27° 39.50' N

Station: 09-092  
Longitude: 90° 50.00' W

Probe Type: T-20  
Date: 17-Feb-1993

Time: 0308

Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)
0.00	22.02	310.00	10.24	620.00	6.54
10.00	21.81	320.00	10.05	630.00	6.48
20.00	21.81	330.00	9.86	640.00	6.43
30.00	21.81	340.00	9.63	650.00	6.29
40.00	21.82	350.00	9.45	660.00	6.20
50.00	20.82	360.00	9.27	670.00	6.14
60.00	19.76	370.00	9.15	680.00	6.13
70.00	19.12	380.00	9.01	690.00	6.09
80.00	18.38	390.00	8.91	700.00	6.01
90.00	17.78	400.00	8.77	710.00	5.86
100.00	17.42	410.00	8.66	720.00	5.81
110.00	16.88	420.00	8.48	730.00	5.76
120.00	16.48	430.00	8.32	740.00	5.73
130.00	16.00	440.00	8.10	750.00	5.67
140.00	15.52	450.00	7.94	760.00	5.61
150.00	15.33	460.00	7.72	770.00	5.57
160.00	14.93	470.00	7.57	780.00	5.53
170.00	14.68	480.00	7.50	790.00	5.47
180.00	14.24	490.00	7.40		
190.00	13.91	500.00	7.29		
200.00	13.48	510.00	7.23		
210.00	13.24	520.00	7.15		
220.00	13.03	530.00	7.05		
230.00	12.63	540.00	6.96		
240.00	12.20	550.00	6.92		
250.00	11.81	560.00	6.91		
260.00	11.49	570.00	6.89		
270.00	11.18	580.00	6.87		
280.00	11.01	590.00	6.81		
290.00	10.74	600.00	6.74		
300.00	10.47	610.00	6.66		

Cruise: GULFCET 04  
Latitude: 27° 15.90' N

Station: 09-094  
Longitude: 90° 49.90' W

Probe Type: T-20  
Date: 16-Feb-1993 Time: 2154

Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)
0.00	21.78	310.00	10.98	620.00	6.64	930.00	4.99
10.00	21.40	320.00	10.85	630.00	6.57	940.00	4.98
20.00	21.40	330.00	10.74	640.00	6.45	950.00	4.94
30.00	21.38	340.00	10.66	650.00	6.36	960.00	4.91
40.00	21.39	350.00	10.43	660.00	6.26	970.00	4.89
50.00	21.22	360.00	10.16	670.00	6.21	980.00	4.86
60.00	20.93	370.00	9.81	680.00	6.11	990.00	4.85
70.00	19.87	380.00	9.65	690.00	6.02		
80.00	19.24	390.00	9.40	700.00	5.97		
90.00	18.69	400.00	9.23	710.00	5.91		
100.00	18.23	410.00	9.05	720.00	5.84		
110.00	17.60	420.00	8.86	730.00	5.79		
120.00	16.99	430.00	8.77	740.00	5.75		
130.00	16.57	440.00	8.62	750.00	5.71		
140.00	16.31	450.00	8.46	760.00	5.66		
150.00	15.81	460.00	8.29	770.00	5.63		
160.00	15.30	470.00	8.20	780.00	5.60		
170.00	14.86	480.00	8.13	790.00	5.56		
180.00	14.52	490.00	7.98	800.00	5.53		
190.00	14.26	500.00	7.82	810.00	5.48		
200.00	13.85	510.00	7.69	820.00	5.42		
210.00	13.57	520.00	7.60	830.00	5.36		
220.00	13.15	530.00	7.50	840.00	5.32		
230.00	12.86	540.00	7.39	850.00	5.27		
240.00	12.54	550.00	7.35	860.00	5.22		
250.00	12.34	560.00	7.25	870.00	5.19		
260.00	12.17	570.00	7.17	880.00	5.16		
270.00	11.79	580.00	7.04	890.00	5.13		
280.00	11.45	590.00	6.94	900.00	5.10		
290.00	11.22	600.00	6.87	910.00	5.04		
300.00	11.12	610.00	6.76	920.00	5.02		

Cruise: GULFCET 04  
Latitude: 27° 11.20' N

Station: 10-098  
Longitude: 90° 10.00' W

Probe Type: T-20  
Date: 16-Feb-1993 Time: 0937

Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)
0.00	21.98	310.00	10.26	620.00	6.22	930.00	4.87
10.00	21.93	320.00	9.98	630.00	6.14	940.00	4.83
20.00	21.57	330.00	9.97	640.00	6.08	950.00	4.80
30.00	21.36	340.00	9.73	650.00	6.01	960.00	4.78
40.00	21.36	350.00	9.53	660.00	5.95	970.00	4.77
50.00	21.26	360.00	9.34	670.00	5.91	980.00	4.74
60.00	21.07	370.00	9.15	680.00	5.87	990.00	4.68
70.00	19.32	380.00	9.10	690.00	5.84		
80.00	18.46	390.00	8.91	700.00	5.78		
90.00	17.99	400.00	8.69	710.00	5.73		
100.00	17.39	410.00	8.51	720.00	5.68		
110.00	16.55	420.00	8.33	730.00	5.64		
120.00	16.08	430.00	8.22	740.00	5.60		
130.00	15.46	440.00	8.08	750.00	5.56		
140.00	15.19	450.00	7.96	760.00	5.52		
150.00	14.95	460.00	7.87	770.00	5.46		
160.00	14.46	470.00	7.79	780.00	5.41		
170.00	14.12	480.00	7.66	790.00	5.35		
180.00	13.75	490.00	7.54	800.00	5.32		
190.00	13.52	500.00	7.42	810.00	5.28		
200.00	13.23	510.00	7.29	820.00	5.24		
210.00	12.77	520.00	7.20	830.00	5.20		
220.00	12.52	530.00	7.05	840.00	5.17		
230.00	12.26	540.00	6.98	850.00	5.13		
240.00	12.00	550.00	6.91	860.00	5.10		
250.00	11.90	560.00	6.79	870.00	5.07		
260.00	11.51	570.00	6.68	880.00	5.03		
270.00	11.21	580.00	6.58	890.00	4.99		
280.00	10.97	590.00	6.48	900.00	4.96		
290.00	10.66	600.00	6.42	910.00	4.93		
300.00	10.56	610.00	6.30	920.00	4.90		

Cruise: GULFCET 04  
Latitude: 27° 39.90' N

Station: 10-099  
Longitude: 90° 09.90' W

Probe Type: T-20  
Date: 16-Feb-1993

Time: 0504

Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)
0.00	20.75	310.00	9.08	620.00	6.26
10.00	20.55	320.00	8.97	630.00	6.19
20.00	20.55	330.00	8.81	640.00	6.16
30.00	20.55	340.00	8.65	650.00	6.11
40.00	20.55	350.00	8.53	660.00	6.09
50.00	20.55	360.00	8.31	670.00	6.06
60.00	20.55	370.00	8.18	680.00	6.03
70.00	20.53	380.00	8.00	690.00	6.01
80.00	19.82	390.00	7.83	700.00	5.98
90.00	19.08	400.00	7.74	710.00	5.96
100.00	18.13	410.00	7.64	720.00	5.92
110.00	17.14	420.00	7.57	730.00	5.86
120.00	16.20	430.00	7.49	740.00	5.82
130.00	15.58	440.00	7.30	750.00	5.75
140.00	15.00	450.00	7.19	760.00	5.71
150.00	14.48	460.00	7.09	770.00	5.68
160.00	13.74	470.00	7.02	780.00	5.63
170.00	13.28	480.00	6.95	790.00	5.59
180.00	12.54	490.00	6.90	800.00	5.58
190.00	12.02	500.00	6.83	810.00	5.56
200.00	11.62	510.00	6.78	820.00	5.57
210.00	11.31	520.00	6.71	830.00	5.56
220.00	11.14	530.00	6.65	840.00	5.54
230.00	10.81	540.00	6.59	850.00	5.52
240.00	10.57	550.00	6.53	860.00	5.44
250.00	10.25	560.00	6.46		
260.00	9.97	570.00	6.41		
270.00	9.84	580.00	6.39		
280.00	9.70	590.00	6.36		
290.00	9.52	600.00	6.32		
300.00	9.28	610.00	6.29		

Cruise: GULFCET 04  
Latitude: 27° 50.10' N

Station: 10-101  
Longitude: 90° 09.95' W

Probe Type: T-7  
Date: 16-Feb-1993

Time: 0230

Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)
0.00	20.67	310.00	8.47	620.00	6.00
10.00	20.65	320.00	8.32	630.00	5.97
20.00	20.62	330.00	8.15	640.00	5.92
30.00	20.62	340.00	8.03		
40.00	20.61	350.00	7.95		
50.00	20.54	360.00	7.81		
60.00	20.54	370.00	7.70		
70.00	20.46	380.00	7.60		
80.00	19.56	390.00	7.56		
90.00	19.00	400.00	7.49		
100.00	17.99	410.00	7.35		
110.00	17.19	420.00	7.20		
120.00	16.52	430.00	7.07		
130.00	15.60	440.00	7.01		
140.00	14.57	450.00	6.98		
150.00	13.96	460.00	6.95		
160.00	13.48	470.00	6.91		
170.00	13.10	480.00	6.79		
180.00	12.50	490.00	6.62		
190.00	12.05	500.00	6.57		
200.00	11.43	510.00	6.48		
210.00	11.13	520.00	6.40		
220.00	10.63	530.00	6.35		
230.00	10.17	540.00	6.31		
240.00	9.93	550.00	6.28		
250.00	9.49	560.00	6.23		
260.00	9.25	570.00	6.16		
270.00	9.06	580.00	6.12		
280.00	8.93	590.00	6.07		
290.00	8.75	600.00	6.05		
300.00	8.65	610.00	6.03		

Cruise: GULFCET 04  
Latitude: 28° 02.00' N

Station: 10-102  
Longitude: 90° 10.00' W

Probe Type: T-7  
Date: 16-Feb-1993 Time: 0021

Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)
0.00	21.35	310.00	9.22
10.00	21.30	320.00	9.06
20.00	21.16	330.00	8.86
30.00	21.05	340.00	8.70
40.00	20.90	350.00	8.59
50.00	20.80	360.00	8.41
60.00	20.78	370.00	8.28
70.00	20.66	380.00	8.15
80.00	20.30	390.00	8.11
90.00	19.22	400.00	8.03
100.00	18.69	410.00	7.87
110.00	18.27	420.00	7.81
120.00	17.93	430.00	7.80
130.00	17.22	440.00	7.74
140.00	16.45	450.00	7.70
150.00	15.55	460.00	7.68
160.00	14.89	470.00	7.67
170.00	14.25	480.00	7.56
180.00	13.90	490.00	7.49
190.00	13.50	500.00	7.42
200.00	13.27		
210.00	12.56		
220.00	11.63		
230.00	11.38		
240.00	11.27		
250.00	10.82		
260.00	10.74		
270.00	10.29		
280.00	9.91		
290.00	9.62		
300.00	9.47		

Cruise: GULFCET 04  
Latitude: 28° 04.00' N

Station: 10-103  
Longitude: 90° 09.90' W

Probe Type: T-7  
Date: 15-Feb-1993 Time: 2358

Depth (m)	Temp. (°C)
0.00	21.40
10.00	21.37
20.00	21.36
30.00	21.07
40.00	20.80
50.00	20.67
60.00	20.56
70.00	20.53
80.00	19.94
90.00	19.04
100.00	18.54
110.00	17.54
120.00	17.11
130.00	16.77
140.00	16.36
150.00	15.90
160.00	15.23
170.00	14.68
180.00	13.99
190.00	13.70
200.00	12.99
210.00	12.23

**Cruise:** GULFCET 04  
**Latitude:** 28° 09.40' N

**Station:** 10-104  
**Longitude:** 90° 10.10' W

**Probe Type:** T-10  
**Date:** 15-Feb-1993

**Time:** 2207

Depth (m)	Temp. (°C)
0.00	22.11
10.00	22.01
20.00	22.01
30.00	22.01
40.00	22.01
50.00	21.99
60.00	21.37
70.00	20.13
80.00	19.08
90.00	18.27
100.00	17.62
110.00	17.31
120.00	17.02
130.00	16.47
140.00	15.89
150.00	15.56
160.00	15.01
170.00	14.65
180.00	14.24

**Cruise:** GULFCET 04  
**Latitude:** 28° 36.10' N

**Station:** 11-107  
**Longitude:** 89° 30.00' W

**Probe Type:** T-10  
**Date:** 15-Feb-1993

**Time:** 1059

Depth (m)	Temp. (°C)
0.00	22.44
10.00	22.42
20.00	22.45
30.00	22.46
40.00	22.47
50.00	22.45
60.00	22.34
70.00	21.93
80.00	21.18
90.00	19.80
100.00	19.38
110.00	18.92
120.00	18.33
130.00	15.44
140.00	13.80

Cruise: GULFCET 04  
Latitude: 28° 31.90' N

Station: 11-108  
Longitude: 89° 30.00' W

Probe Type: T-7  
Date: 15-Feb-1993 Time: 1023

Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)
0.00	22.48	310.00	11.65
10.00	22.45	320.00	11.47
20.00	22.46	330.00	11.09
30.00	22.43	340.00	10.44
40.00	22.39		
50.00	22.33		
60.00	22.34		
70.00	22.19		
80.00	21.36		
90.00	20.55		
100.00	19.71		
110.00	18.87		
120.00	18.10		
130.00	17.83		
140.00	17.43		
150.00	16.08		
160.00	15.48		
170.00	15.17		
180.00	14.65		
190.00	14.31		
200.00	14.17		
210.00	13.98		
220.00	13.81		
230.00	13.47		
240.00	13.41		
250.00	13.30		
260.00	13.05		
270.00	12.57		
280.00	12.20		
290.00	12.02		
300.00	11.81		

Cruise: GULFCET 04  
Latitude: 28° 28.00' N

Station: 11-109  
Longitude: 89° 30.00' W

Probe Type: T-7  
Date: 15-Feb-1993 Time: 0947

Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)
0.00	22.06	310.00	11.59
10.00	22.05	320.00	11.46
20.00	22.05	330.00	11.14
30.00	22.05	340.00	10.95
40.00	22.06	350.00	10.80
50.00	22.06	360.00	10.39
60.00	22.06	370.00	10.10
70.00	21.97	380.00	9.92
80.00	21.74	390.00	9.72
90.00	20.83	400.00	9.54
100.00	19.84	410.00	9.41
110.00	19.06	420.00	9.16
120.00	18.51	430.00	9.05
130.00	18.00	440.00	9.01
140.00	17.23	450.00	8.72
150.00	16.77	460.00	8.52
160.00	16.48	470.00	8.23
170.00	15.97	480.00	8.10
180.00	15.53	490.00	8.03
190.00	15.16	500.00	7.92
200.00	14.89	510.00	7.82
210.00	14.54	520.00	7.64
220.00	14.17	530.00	7.54
230.00	13.84		
240.00	13.48		
250.00	13.00		
260.00	12.66		
270.00	12.49		
280.00	12.31		
290.00	11.98		
300.00	11.70		

Cruise: GULFCET 04  
Latitude: 28° 21.50' N

Station: 11-110  
Longitude: 89° 30.00' W

Probe Type: T-7  
Date: 15-Feb-1993 Time: 0851

Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)
0.00	22.07	310.00	11.77	620.00	6.68
10.00	21.99	320.00	11.54	630.00	6.63
20.00	21.99	330.00	11.31	640.00	6.54
30.00	21.99	340.00	11.10	650.00	6.45
40.00	21.99	350.00	10.86	660.00	6.39
50.00	21.99	360.00	10.69	670.00	6.34
60.00	21.99	370.00	10.41	680.00	6.33
70.00	22.00	380.00	10.22	690.00	6.23
80.00	21.99	390.00	10.10	700.00	6.14
90.00	21.67	400.00	9.96	710.00	6.10
100.00	20.79	410.00	9.71	720.00	5.98
110.00	19.72	420.00	9.55		
120.00	19.32	430.00	9.34		
130.00	18.64	440.00	9.12		
140.00	17.94	450.00	8.95		
150.00	17.24	460.00	8.76		
160.00	16.88	470.00	8.68		
170.00	16.59	480.00	8.44		
180.00	16.16	490.00	8.34		
190.00	15.76	500.00	8.19		
200.00	15.42	510.00	8.04		
210.00	15.13	520.00	7.90		
220.00	14.34	530.00	7.80		
230.00	13.49	540.00	7.73		
240.00	13.23	550.00	7.58		
250.00	13.02	560.00	7.48		
260.00	12.73	570.00	7.38		
270.00	12.57	580.00	7.21		
280.00	12.33	590.00	7.12		
290.00	12.19	600.00	6.99		
300.00	11.90	610.00	6.81		

Cruise: GULFCET 04  
Latitude: 28° 15.00' N

Station: 11-111  
Longitude: 89° 29.90' W

Probe Type: T-20  
Date: 15-Feb-1993 Time: 0755

Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)
0.00	22.09	310.00	11.88	620.00	7.15	930.00	5.21
10.00	22.00	320.00	11.68	630.00	7.02	940.00	5.18
20.00	21.99	330.00	11.49	640.00	6.91		
30.00	22.00	340.00	11.27	650.00	6.79		
40.00	22.00	350.00	11.14	660.00	6.65		
50.00	22.00	360.00	11.01	670.00	6.59		
60.00	22.00	370.00	10.81	680.00	6.53		
70.00	21.99	380.00	10.59	690.00	6.46		
80.00	22.00	390.00	10.35	700.00	6.40		
90.00	21.98	400.00	10.10	710.00	6.35		
100.00	21.12	410.00	9.91	720.00	6.29		
110.00	20.33	420.00	9.68	730.00	6.21		
120.00	19.68	430.00	9.61	740.00	6.14		
130.00	19.02	440.00	9.45	750.00	6.11		
140.00	18.58	450.00	9.25	760.00	6.05		
150.00	17.94	460.00	9.12	770.00	5.94		
160.00	17.31	470.00	8.94	780.00	5.91		
170.00	16.86	480.00	8.78	790.00	5.88		
180.00	16.36	490.00	8.60	800.00	5.82		
190.00	15.93	500.00	8.48	810.00	5.77		
200.00	15.54	510.00	8.26	820.00	5.70		
210.00	15.11	520.00	8.11	830.00	5.64		
220.00	14.60	530.00	8.01	840.00	5.55		
230.00	14.25	540.00	7.93	850.00	5.53		
240.00	13.89	550.00	7.84	860.00	5.53		
250.00	13.61	560.00	7.76	870.00	5.49		
260.00	13.33	570.00	7.68	880.00	5.46		
270.00	13.05	580.00	7.57	890.00	5.42		
280.00	12.64	590.00	7.43	900.00	5.38		
290.00	12.41	600.00	7.34	910.00	5.34		
300.00	12.18	610.00	7.22	920.00	5.27		



Cruise: GULFCET 04  
Latitude: 27° 38.00' N

Station: 11-113  
Longitude: 89° 30.00' W

Probe Type: T-20  
Date: 15-Feb-1993 Time: 0100

Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)
0.00	22.54	310.00	11.66	620.00	6.97	930.00	5.23
10.00	22.49	320.00	11.38	630.00	6.88	940.00	5.19
20.00	22.49	330.00	11.29	640.00	6.75	950.00	5.18
30.00	22.49	340.00	11.20	650.00	6.65	960.00	5.16
40.00	22.49	350.00	11.00	660.00	6.61	970.00	5.12
50.00	22.48	360.00	10.81	670.00	6.53	980.00	5.08
60.00	22.00	370.00	10.62	680.00	6.43	990.00	5.06
70.00	20.58	380.00	10.41	690.00	6.40		
80.00	19.93	390.00	10.24	700.00	6.32		
90.00	19.67	400.00	10.08	710.00	6.29		
100.00	19.20	410.00	9.78	720.00	6.23		
110.00	18.45	420.00	9.59	730.00	6.16		
120.00	17.86	430.00	9.44	740.00	6.14		
130.00	17.47	440.00	9.32	750.00	6.05		
140.00	17.20	450.00	9.11	760.00	5.99		
150.00	16.65	460.00	8.88	770.00	5.93		
160.00	16.09	470.00	8.79	780.00	5.87		
170.00	15.75	480.00	8.65	790.00	5.81		
180.00	15.34	490.00	8.48	800.00	5.78		
190.00	14.94	500.00	8.36	810.00	5.73		
200.00	14.57	510.00	8.22	820.00	5.71		
210.00	14.29	520.00	8.09	830.00	5.71		
220.00	14.00	530.00	7.98	840.00	5.67		
230.00	13.73	540.00	7.86	850.00	5.61		
240.00	13.45	550.00	7.74	860.00	5.53		
250.00	13.13	560.00	7.62	870.00	5.48		
260.00	12.93	570.00	7.48	880.00	5.44		
270.00	12.73	580.00	7.35	890.00	5.40		
280.00	12.50	590.00	7.26	900.00	5.36		
290.00	12.22	600.00	7.17	910.00	5.29		
300.00	11.97	610.00	7.06	920.00	5.30		

Cruise: GULFCET 04  
Latitude: 28° 14.50' N

Station: 12-118  
Longitude: 88° 49.90' W

Probe Type: T-20  
Date: 14-Feb-1993 Time: 0850

Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)
0.00	21.98	310.00	13.50	620.00	7.64	930.00	5.32
10.00	21.96	320.00	13.22	630.00	7.52	940.00	5.29
20.00	21.96	330.00	12.94	640.00	7.37	950.00	5.25
30.00	21.96	340.00	12.79	650.00	7.26	960.00	5.22
40.00	21.97	350.00	12.54	660.00	7.19	970.00	5.18
50.00	21.97	360.00	12.39	670.00	7.01	980.00	5.11
60.00	21.97	370.00	12.14	680.00	6.89	990.00	5.07
70.00	21.97	380.00	11.90	690.00	6.83		
80.00	21.98	390.00	11.57	700.00	6.77		
90.00	21.97	400.00	11.38	710.00	6.68		
100.00	21.98	410.00	11.21	720.00	6.62		
110.00	21.97	420.00	10.91	730.00	6.57		
120.00	20.84	430.00	10.72	740.00	6.44		
130.00	20.27	440.00	10.48	750.00	6.37		
140.00	19.42	450.00	10.29	760.00	6.30		
150.00	18.88	460.00	10.12	770.00	6.21		
160.00	18.44	470.00	9.91	780.00	6.14		
170.00	17.98	480.00	9.73	790.00	6.10		
180.00	17.52	490.00	9.53	800.00	6.05		
190.00	17.18	500.00	9.36	810.00	5.95		
200.00	16.79	510.00	9.22	820.00	5.85		
210.00	16.51	520.00	9.02	830.00	5.77		
220.00	16.29	530.00	8.81	840.00	5.72		
230.00	15.98	540.00	8.65	850.00	5.67		
240.00	15.66	550.00	8.58	860.00	5.64		
250.00	15.31	560.00	8.49	870.00	5.60		
260.00	15.16	570.00	8.30	880.00	5.55		
270.00	14.78	580.00	8.18	890.00	5.50		
280.00	14.45	590.00	8.13	900.00	5.46		
290.00	14.18	600.00	8.11	910.00	5.41		
300.00	13.86	610.00	7.87	920.00	5.36		

Cruise: GULFCET 04  
Latitude: 28° 43.50' N

Station: 12-120  
Longitude: 88° 50.00' W

Probe Type: T-20  
Date: 14-Feb-1993

Time: 0309

Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)
0.00	20.57	310.00	12.06	620.00	6.85
10.00	22.55	320.00	11.82	630.00	6.76
20.00	22.62	330.00	11.60	640.00	6.64
30.00	22.64	340.00	11.47	650.00	6.59
40.00	22.64	350.00	11.28	660.00	6.35
50.00	22.47	360.00	11.08	670.00	6.26
60.00	22.42	370.00	10.96	680.00	6.12
70.00	22.36	380.00	10.90	690.00	6.01
80.00	21.52	390.00	10.79	700.00	5.92
90.00	20.98	400.00	10.62	710.00	5.84
100.00	20.14	410.00	10.44	720.00	5.81
110.00	19.63	420.00	10.16	730.00	5.78
120.00	18.88	430.00	9.98	740.00	5.74
130.00	18.41	440.00	9.72	750.00	5.68
140.00	17.62	450.00	9.61	760.00	5.62
150.00	17.29	460.00	9.36	770.00	5.54
160.00	16.99	470.00	9.19	780.00	5.51
170.00	16.59	480.00	9.09	790.00	5.46
180.00	16.11	490.00	8.96	800.00	5.41
190.00	15.73	500.00	8.74	810.00	5.38
200.00	15.43	510.00	8.66	820.00	5.35
210.00	15.16	520.00	8.49	830.00	5.34
220.00	14.86	530.00	8.43	840.00	5.35
230.00	14.56	540.00	8.20	850.00	5.34
240.00	14.14	550.00	8.11	860.00	5.33
250.00	13.75	560.00	7.91	870.00	5.29
260.00	13.57	570.00	7.50	880.00	5.25
270.00	13.16	580.00	7.36		
280.00	12.96	590.00	7.19		
290.00	12.71	600.00	7.11		
300.00	12.40	610.00	6.98		

Cruise: GULFCET 04  
Latitude: 28° 47.00' N

Station: 12-121  
Longitude: 88° 50.00' W

Probe Type: T-7  
Date: 14-Feb-1993

Time: 0236

Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)
0.00	20.06	310.00	12.00	620.00	6.72
10.00	22.36	320.00	11.76	630.00	6.67
20.00	22.41	330.00	11.54	640.00	6.54
30.00	22.45	340.00	11.42	650.00	6.45
40.00	22.39	350.00	11.18	660.00	6.37
50.00	22.33	360.00	10.87	670.00	6.34
60.00	22.17	370.00	10.58	680.00	6.26
70.00	22.10	380.00	10.37	690.00	6.18
80.00	21.64	390.00	10.24	700.00	6.04
90.00	20.34	400.00	10.02	710.00	6.09
100.00	19.76	410.00	9.88		
110.00	19.27	420.00	9.65		
120.00	18.56	430.00	9.48		
130.00	17.95	440.00	9.33		
140.00	17.54	450.00	9.16		
150.00	17.19	460.00	8.83		
160.00	16.77	470.00	8.65		
170.00	16.19	480.00	8.59		
180.00	16.01	490.00	8.46		
190.00	15.42	500.00	8.30		
200.00	15.16	510.00	8.18		
210.00	14.78	520.00	8.04		
220.00	14.48	530.00	7.86		
230.00	14.16	540.00	7.71		
240.00	13.89	550.00	7.65		
250.00	13.57	560.00	7.54		
260.00	13.34	570.00	7.39		
270.00	13.06	580.00	7.24		
280.00	12.81	590.00	7.01		
290.00	12.60	600.00	6.89		
300.00	12.21	610.00	6.77		

Cruise: GULFCET 04  
Latitude: 28° 53.00' N

Station: 12-122  
Longitude: 88° 50.00' W

Probe Type: T-7  
Date: 14-Feb-1993  
Time: 0141

Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)
0.00	19.47	310.00	10.89
10.00	22.02	320.00	10.76
20.00	22.46	330.00	10.71
30.00	22.39	340.00	10.56
40.00	22.21	350.00	10.44
50.00	22.13	360.00	10.34
60.00	22.12	370.00	9.99
70.00	22.00	380.00	9.90
80.00	20.58	390.00	9.64
90.00	19.58	400.00	9.49
100.00	18.93	410.00	9.24
110.00	18.23		
120.00	17.69		
130.00	17.16		
140.00	16.84		
150.00	16.30		
160.00	15.97		
170.00	15.33		
180.00	15.09		
190.00	14.78		
200.00	14.45		
210.00	13.88		
220.00	13.46		
230.00	13.07		
240.00	12.75		
250.00	12.53		
260.00	12.27		
270.00	11.85		
280.00	11.51		
290.00	11.39		
300.00	11.21		

Cruise: GULFCET 04  
Latitude: 29° 00.10' N

Station: 12-124  
Longitude: 88° 50.00' W

Probe Type: T-10  
Date: 14-Feb-1993  
Time: 0037

Depth (m)	Temp. (°C)
0.00	18.57
10.00	21.82
20.00	22.18
30.00	22.16
40.00	22.12
50.00	22.05
60.00	21.81
70.00	20.46
80.00	19.31
90.00	19.07
100.00	18.57
110.00	17.55
120.00	17.01
130.00	16.40
140.00	16.20
150.00	15.63
160.00	15.06
170.00	14.58
180.00	14.48

Cruise: GULFCET 04  
Latitude: 29° 12.90' N

Station: 13-127  
Longitude: 88° 10.00' W

Probe Type: T-10  
Date: 13-Feb-1993

Time: 1755

Depth (m)	Temp. (°C)
0.00	18.60
10.00	18.62
20.00	20.21
30.00	20.38
40.00	18.84
50.00	19.65
60.00	19.81
70.00	19.93
80.00	19.68
90.00	19.20
100.00	18.63
110.00	18.02
120.00	17.66
130.00	17.29
140.00	17.15
150.00	16.94
160.00	16.65
170.00	15.63
180.00	15.22
190.00	14.82
200.00	14.62

Cruise: GULFCET 04  
Latitude: 29° 10.40' N

Station: 13-128  
Longitude: 88° 10.00' W

Probe Type: T-7  
Date: 13-Feb-1993

Time: 1731

Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)
0.00	18.18	310.00	11.05
10.00	18.37	320.00	10.67
20.00	21.29	330.00	10.44
30.00	21.78	340.00	10.34
40.00	19.88	350.00	9.95
50.00	19.67		
60.00	19.85		
70.00	19.75		
80.00	19.85		
90.00	19.46		
100.00	19.22		
110.00	18.60		
120.00	18.12		
130.00	17.50		
140.00	17.10		
150.00	16.53		
160.00	15.76		
170.00	15.14		
180.00	14.80		
190.00	14.24		
200.00	13.95		
210.00	13.85		
220.00	13.53		
230.00	13.11		
240.00	12.84		
250.00	12.68		
260.00	12.45		
270.00	12.22		
280.00	11.91		
290.00	11.65		
300.00	11.32		

Cruise: GULFCET 04  
Latitude: 29° 08.40' N

Station: 13-129  
Longitude: 88° 10.00' W

Probe Type: T-7  
Date: 13-Feb-1993

Time: 1712

Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)
0.00	17.80	310.00	11.00
10.00	18.25	320.00	10.86
20.00	20.25	330.00	10.64
30.00	20.43	340.00	10.37
40.00	19.29	350.00	10.15
50.00	19.63	360.00	9.98
60.00	19.69	370.00	9.76
70.00	19.76	380.00	9.65
80.00	20.17	390.00	9.36
90.00	19.40	400.00	9.07
100.00	19.15	410.00	8.94
110.00	18.33	420.00	8.77
120.00	17.64	430.00	8.69
130.00	17.11	440.00	8.50
140.00	16.76	450.00	8.47
150.00	16.35	460.00	8.35
160.00	15.97	470.00	7.88
170.00	15.63		
180.00	15.09		
190.00	14.72		
200.00	14.33		
210.00	13.81		
220.00	13.56		
230.00	13.29		
240.00	12.88		
250.00	12.58		
260.00	12.41		
270.00	12.08		
280.00	11.65		
290.00	11.53		
300.00	11.27		

Cruise: GULFCET 04  
Latitude: 29° 04.90' N

Station: 13-130  
Longitude: 88° 10.00' W

Probe Type: T-7  
Date: 13-Feb-1993

Time: 1640

Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)
0.00	17.37	310.00	11.21	620.00	6.64
10.00	17.91	320.00	11.14	630.00	6.54
20.00	20.57	330.00	10.84	640.00	6.42
30.00	20.13	340.00	10.64	650.00	6.31
40.00	19.87	350.00	10.40	660.00	6.27
50.00	19.06	360.00	10.26	670.00	6.25
60.00	19.69	370.00	10.11	680.00	6.24
70.00	19.74	380.00	9.94	690.00	6.22
80.00	19.63	390.00	9.72	700.00	6.19
90.00	19.32	400.00	9.49	710.00	6.13
100.00	18.78	410.00	9.27	720.00	6.08
110.00	18.48	420.00	9.12	730.00	6.06
120.00	17.79	430.00	8.99	740.00	6.03
130.00	17.42	440.00	8.77	750.00	6.01
140.00	16.90	450.00	8.70		
150.00	16.62	460.00	8.51		
160.00	16.35	470.00	8.38		
170.00	15.88	480.00	8.15		
180.00	15.43	490.00	7.99		
190.00	15.07	500.00	7.94		
200.00	14.71	510.00	7.70		
210.00	14.14	520.00	7.51		
220.00	13.85	530.00	7.36		
230.00	13.59	540.00	7.30		
240.00	13.25	550.00	7.16		
250.00	12.94	560.00	7.05		
260.00	12.67	570.00	7.02		
270.00	12.35	580.00	6.99		
280.00	11.97	590.00	6.90		
290.00	11.68	600.00	6.83		
300.00	11.40	610.00	6.75		

Cruise: GULFCET 04  
Latitude: 28° 49.00' N

Station: 13-132  
Longitude: 88° 10.00' W

Probe Type: T-20  
Date: 13-Feb-1993 Time: 1402

Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)
0.00	17.94	310.00	12.08
10.00	19.63	320.00	11.83
20.00	21.91	330.00	11.63
30.00	22.01	340.00	11.38
40.00	22.10	350.00	11.26
50.00	22.01	360.00	11.04
60.00	22.01	370.00	10.76
70.00	22.00	380.00	10.58
80.00	22.00	390.00	10.37
90.00	21.92	400.00	10.16
100.00	20.69	410.00	9.99
110.00	20.03	420.00	9.81
120.00	19.27	430.00	9.56
130.00	18.56	440.00	9.43
140.00	18.10	450.00	9.42
150.00	17.35	460.00	9.21
160.00	17.00	470.00	9.08
170.00	16.58	480.00	8.87
180.00	16.29	490.00	8.74
190.00	15.85	500.00	8.60
200.00	15.47		
210.00	15.04		
220.00	14.60		
230.00	14.28		
240.00	13.96		
250.00	13.69		
260.00	13.35		
270.00	13.19		
280.00	13.00		
290.00	12.74		
300.00	12.46		

Cruise: GULFCET 04  
Latitude: 29° 04.00' N

Station: 14-137  
Longitude: 87° 29.90' W

Probe Type: T-20  
Date: 12-Feb-1993 Time: 2020

Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)
0.00	20.32	310.00	11.64	620.00	6.53	930.00	5.12
10.00	20.35	320.00	11.46	630.00	6.44	940.00	5.09
20.00	20.34	330.00	11.23	640.00	6.35	950.00	5.06
30.00	20.29	340.00	10.99	650.00	6.30	960.00	5.03
40.00	20.13	350.00	10.88	660.00	6.22	970.00	4.98
50.00	20.12	360.00	10.70	670.00	6.16	980.00	4.97
60.00	20.12	370.00	10.55	680.00	6.10	990.00	4.95
70.00	20.07	380.00	10.27	690.00	6.04		
80.00	19.92	390.00	10.05	700.00	5.99		
90.00	19.89	400.00	9.86	710.00	5.96		
100.00	19.68	410.00	9.65	720.00	5.90		
110.00	19.04	420.00	9.50	730.00	5.83		
120.00	18.18	430.00	9.44	740.00	5.78		
130.00	17.69	440.00	9.30	750.00	5.75		
140.00	17.18	450.00	9.00	760.00	5.69		
150.00	16.77	460.00	8.89	770.00	5.66		
160.00	16.14	470.00	8.76	780.00	5.61		
170.00	15.78	480.00	8.60	790.00	5.58		
180.00	15.42	490.00	8.38	800.00	5.54		
190.00	15.11	500.00	8.18	810.00	5.50		
200.00	14.73	510.00	8.02	820.00	5.47		
210.00	14.56	520.00	7.82	830.00	5.42		
220.00	14.24	530.00	7.61	840.00	5.38		
230.00	13.89	540.00	7.47	850.00	5.36		
240.00	13.59	550.00	7.37	860.00	5.32		
250.00	13.33	560.00	7.21	870.00	5.31		
260.00	13.04	570.00	7.03	880.00	5.27		
270.00	12.66	580.00	6.94	890.00	5.23		
280.00	12.39	590.00	6.86	900.00	5.20		
290.00	12.18	600.00	6.71	910.00	5.18		
300.00	11.95	610.00	6.61	920.00	5.15		

Cruise: GULFCET 04  
Latitude: 29° 15.00' N

Station: 14-138  
Longitude: 87° 30.00' W

Probe Type: T-20  
Date: 12-Feb-1993 Time: 1834

Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)
0.00	20.12	310.00	12.17	620.00	6.96	930.00	5.46
10.00	20.18	320.00	11.76	630.00	6.78	940.00	5.45
20.00	20.18	330.00	11.48	640.00	6.65		
30.00	20.18	340.00	11.19	650.00	6.63		
40.00	20.18	350.00	10.88	660.00	6.61		
50.00	20.16	360.00	10.69	670.00	6.58		
60.00	20.15	370.00	10.55	680.00	6.52		
70.00	20.02	380.00	10.40	690.00	6.40		
80.00	19.93	390.00	10.15	700.00	6.29		
90.00	19.79	400.00	9.95	710.00	6.22		
100.00	19.63	410.00	9.84	720.00	6.12		
110.00	19.37	420.00	9.64	730.00	6.08		
120.00	18.56	430.00	9.57	740.00	6.04		
130.00	17.79	440.00	9.44	750.00	6.00		
140.00	17.43	450.00	9.31	760.00	5.98		
150.00	16.50	460.00	9.17	770.00	5.93		
160.00	16.39	470.00	8.89	780.00	5.91		
170.00	16.31	480.00	8.73	790.00	5.84		
180.00	16.11	490.00	8.51	800.00	5.77		
190.00	15.65	500.00	8.32	810.00	5.67		
200.00	15.32	510.00	8.27	820.00	5.64		
210.00	15.00	520.00	8.14	830.00	5.64		
220.00	14.75	530.00	8.09	840.00	5.62		
230.00	14.46	540.00	7.93	850.00	5.62		
240.00	14.12	550.00	7.77	860.00	5.58		
250.00	13.82	560.00	7.61	870.00	5.58		
260.00	13.55	570.00	7.50	880.00	5.51		
270.00	13.20	580.00	7.42	890.00	5.48		
280.00	12.89	590.00	7.26	900.00	5.47		
290.00	12.64	600.00	7.14	910.00	5.46		
300.00	12.41	610.00	7.01	920.00	5.46		

Cruise: GULFCET 04  
Latitude: 29° 16.90' N

Station: 14-139  
Longitude: 87° 29.90' W

Probe Type: T-7  
Date: 12-Feb-1993 Time: 1815

Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)
0.00	20.03	310.00	11.40	620.00	6.67
10.00	20.20	320.00	11.14	630.00	6.60
20.00	20.20	330.00	10.98	640.00	6.56
30.00	20.19	340.00	10.67	650.00	6.53
40.00	20.16	350.00	10.47	660.00	6.49
50.00	20.08	360.00	10.31	670.00	6.45
60.00	20.03	370.00	10.14	680.00	6.35
70.00	19.93	380.00	10.08	690.00	6.22
80.00	19.78	390.00	9.77	700.00	6.17
90.00	19.65	400.00	9.74	710.00	6.12
100.00	19.71	410.00	9.63	720.00	6.06
110.00	19.14	420.00	9.48	730.00	5.95
120.00	18.56	430.00	9.35	740.00	5.94
130.00	17.83	440.00	9.00	750.00	5.94
140.00	17.10	450.00	8.91	760.00	5.91
150.00	16.67	460.00	8.62	770.00	5.89
160.00	16.25	470.00	8.41	780.00	5.76
170.00	15.88	480.00	8.27		
180.00	15.49	490.00	8.20		
190.00	15.25	500.00	8.07		
200.00	14.78	510.00	7.97		
210.00	14.39	520.00	7.85		
220.00	14.15	530.00	7.71		
230.00	13.98	540.00	7.50		
240.00	13.54	550.00	7.38		
250.00	13.21	560.00	7.32		
260.00	12.90	570.00	7.28		
270.00	12.55	580.00	7.18		
280.00	12.32	590.00	7.07		
290.00	12.04	600.00	6.95		
300.00	11.69	610.00	6.81		

Cruise: GULFCET 04  
Latitude: 29° 20.00' N

Station: 14-140  
Longitude: 87° 29.90' W

Probe Type: T-7  
Date: 12-Feb-1993

Time: 1745

Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)
0.00	20.17	310.00	11.38
10.00	20.26	320.00	11.24
20.00	20.26	330.00	10.80
30.00	20.22	340.00	10.59
40.00	20.19	350.00	10.34
50.00	19.98	360.00	10.26
60.00	19.92	370.00	10.00
70.00	19.83	380.00	9.81
80.00	19.78	390.00	9.60
90.00	19.75	400.00	9.05
100.00	19.68	410.00	8.87
110.00	19.41		
120.00	18.35		
130.00	18.11		
140.00	17.55		
150.00	16.72		
160.00	16.34		
170.00	15.90		
180.00	15.35		
190.00	14.82		
200.00	14.46		
210.00	14.14		
220.00	13.97		
230.00	13.54		
240.00	13.29		
250.00	12.92		
260.00	12.69		
270.00	12.45		
280.00	12.07		
290.00	11.74		
300.00	11.56		

Cruise: GULFCET 04  
Latitude: 29° 21.00' N

Station: 14-141  
Longitude: 87° 29.00' W

Probe Type: T-7  
Date: 12-Feb-1993

Time: 1724

Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)
0.00	20.29	310.00	11.40
10.00	20.35	320.00	11.17
20.00	20.35	330.00	11.11
30.00	20.33	340.00	11.01
40.00	20.30	350.00	10.73
50.00	20.08	360.00	10.44
60.00	20.08	370.00	10.00
70.00	20.01		
80.00	19.76		
90.00	19.69		
100.00	19.77		
110.00	18.93		
120.00	18.42		
130.00	18.09		
140.00	17.79		
150.00	16.89		
160.00	16.16		
170.00	15.61		
180.00	15.25		
190.00	14.98		
200.00	14.55		
210.00	14.13		
220.00	13.97		
230.00	13.65		
240.00	13.32		
250.00	13.10		
260.00	12.74		
270.00	12.48		
280.00	12.20		
290.00	11.75		
300.00	11.59		



Cruise: GULFCET 04  
Latitude: 29° 24.90' N

Station: 14-142  
Longitude: 87° 29.90' W

Probe Type: T-10  
Date: 12-Feb-1993

Time: 1650

Depth (m)	Temp. (°C)
0.00	20.20
10.00	20.38
20.00	20.40
30.00	20.38
40.00	20.38
50.00	20.31
60.00	20.17
70.00	20.11
80.00	20.07
90.00	20.02
100.00	20.09
110.00	19.69
120.00	18.95
130.00	18.19
140.00	17.52
150.00	16.82
160.00	16.23
170.00	15.74
180.00	15.65
190.00	15.58

Cruise: GULFCET 04  
Latitude: 26° 33.90' N

Station: 02-EX8  
Longitude: 95° 34.60' W

Probe Type: T-7  
Date: 24-Feb-1993

Time: 0757

Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)
0.00	23.94	310.00	13.45	620.00	7.63
10.00	23.11	320.00	13.23	630.00	7.48
20.00	23.11	330.00	13.00	640.00	7.35
30.00	23.07	340.00	12.78	650.00	7.21
40.00	23.05	350.00	12.47	660.00	7.07
50.00	22.77	360.00	12.17	670.00	6.99
60.00	22.53	370.00	11.96	680.00	6.87
70.00	22.69	380.00	11.79	690.00	6.76
80.00	22.67	390.00	11.61	700.00	6.65
90.00	22.31	400.00	11.44	710.00	6.59
100.00	22.39	410.00	11.20	720.00	6.49
110.00	21.88	420.00	10.99	730.00	6.43
120.00	21.92	430.00	10.74	740.00	6.38
130.00	21.37	440.00	10.48	750.00	6.30
140.00	20.58	450.00	10.30	760.00	6.22
150.00	20.07	460.00	10.10	770.00	6.15
160.00	19.49	470.00	9.98	780.00	6.07
170.00	19.15	480.00	9.75	790.00	6.02
180.00	18.51	490.00	9.54	800.00	5.97
190.00	18.09	500.00	9.35	810.00	5.96
200.00	17.49	510.00	9.23	820.00	5.87
210.00	16.93	520.00	9.01		
220.00	16.61	530.00	8.81		
230.00	16.27	540.00	8.72		
240.00	15.90	550.00	8.61		
250.00	15.56	560.00	8.52		
260.00	15.30	570.00	8.27		
270.00	14.92	580.00	8.10		
280.00	14.55	590.00	8.02		
290.00	14.06	600.00	7.86		
300.00	13.71	610.00	7.74		

Cruise: GULFCET 04      Station: 04-EX7      Probe Type: T-7  
 Latitude: 27° 36.00' N      Longitude: 94° 10.00' W      Date: 22-Feb-1993      Time: 0002

Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)
0.00	21.47	310.00	10.18	620.00	6.29
10.00	21.43	320.00	10.01	630.00	6.23
20.00	21.38	330.00	9.92	640.00	6.14
30.00	21.10	340.00	9.77	650.00	6.08
40.00	21.01	350.00	9.72	660.00	6.02
50.00	20.80	360.00	9.62	670.00	5.97
60.00	20.75	370.00	9.42	680.00	5.90
70.00	20.67	380.00	9.28	690.00	5.82
80.00	20.62	390.00	9.16	700.00	5.75
90.00	19.97	400.00	9.02	710.00	5.68
100.00	19.71	410.00	8.76	720.00	5.62
110.00	18.90	420.00	8.67	730.00	5.58
120.00	17.15	430.00	8.61	740.00	5.54
130.00	15.97	440.00	8.47	750.00	5.52
140.00	15.25	450.00	8.36	760.00	5.49
150.00	14.80	460.00	8.22	770.00	5.46
160.00	14.24	470.00	8.06	780.00	5.43
170.00	13.81	480.00	7.93	790.00	5.41
180.00	13.41	490.00	7.69	800.00	5.38
190.00	13.14	500.00	7.44	810.00	5.35
200.00	12.91	510.00	7.33	820.00	5.31
210.00	12.72	520.00	7.29		
220.00	12.33	530.00	7.15		
230.00	12.14	540.00	7.10		
240.00	11.93	550.00	6.96		
250.00	11.58	560.00	6.86		
260.00	11.26	570.00	6.81		
270.00	11.03	580.00	6.68		
280.00	10.78	590.00	6.55		
290.00	10.48	600.00	6.45		
300.00	10.32	610.00	6.35		

Cruise: GULFCET 04      Station: NL-EX6      Probe Type: T-20  
 Latitude: 27° 07.13' N      Longitude: 92° 00.60' W      Date: 19-Feb-1993      Time: 2144

Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)
0.00	21.06	310.00	11.53	620.00	6.63	930.00	5.20
10.00	21.07	320.00	11.18	630.00	6.57	940.00	5.19
20.00	21.07	330.00	10.89	640.00	6.50	950.00	5.15
30.00	21.07	340.00	10.69	650.00	6.41	960.00	5.12
40.00	21.07	350.00	10.36	660.00	6.32	970.00	5.10
50.00	21.07	360.00	10.15	670.00	6.23	980.00	5.08
60.00	21.07	370.00	9.89	680.00	6.18	990.00	5.03
70.00	21.05	380.00	9.74	690.00	6.11		
80.00	19.93	390.00	9.60	700.00	6.07		
90.00	19.41	400.00	9.46	710.00	5.99		
100.00	18.65	410.00	9.30	720.00	5.90		
110.00	17.86	420.00	9.11	730.00	5.83		
120.00	17.34	430.00	8.94	740.00	5.78		
130.00	16.83	440.00	8.72	750.00	5.72		
140.00	16.39	450.00	8.56	760.00	5.67		
150.00	16.11	460.00	8.39	770.00	5.63		
160.00	15.82	470.00	8.29	780.00	5.59		
170.00	15.39	480.00	8.17	790.00	5.54		
180.00	14.97	490.00	8.03	800.00	5.48		
190.00	14.69	500.00	7.95	810.00	5.44		
200.00	14.44	510.00	7.86	820.00	5.42		
210.00	14.13	520.00	7.73	830.00	5.40		
220.00	13.70	530.00	7.58	840.00	5.38		
230.00	13.45	540.00	7.43	850.00	5.34		
240.00	13.22	550.00	7.31	860.00	5.32		
250.00	13.01	560.00	7.24	870.00	5.31		
260.00	12.79	570.00	7.17	880.00	5.29		
270.00	12.49	580.00	7.00	890.00	5.25		
280.00	12.27	590.00	6.92	900.00	5.25		
290.00	12.07	600.00	6.80	910.00	5.24		
300.00	11.75	610.00	6.73	920.00	5.21		

**Cruise:** GULFCET 04      **Station:** 06-EX5      **Probe Type:** T-7  
**Latitude:** 27° 35.38' N      **Longitude:** 92° 50.24' W      **Date:** 19-Feb-1993      **Time:** 1704

Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)
0.00	20.80	310.00	11.04
10.00	20.74	320.00	10.96
20.00	20.73	330.00	10.61
30.00	20.73	340.00	10.39
40.00	20.74	350.00	10.33
50.00	20.74	360.00	10.00
60.00	20.74	370.00	9.98
70.00	20.74	380.00	9.74
80.00	19.96	390.00	9.60
90.00	19.23	400.00	9.44
100.00	18.68	410.00	9.30
110.00	18.14	420.00	9.16
120.00	17.55	430.00	9.04
130.00	16.89	440.00	8.89
140.00	16.51	450.00	8.73
150.00	16.12	460.00	8.63
160.00	15.64		
170.00	15.21		
180.00	14.81		
190.00	14.62		
200.00	14.39		
210.00	14.15		
220.00	13.66		
230.00	13.13		
240.00	12.80		
250.00	12.52		
260.00	12.31		
270.00	12.03		
280.00	11.75		
290.00	11.62		
300.00	11.31		

**Cruise:** GULFCET 04      **Station:** 07-EX3      **Probe Type:** T-7  
**Latitude:** 27° 14.01' N      **Longitude:** 92° 10.08' W      **Date:** 18-Feb-1993      **Time:** 2352

Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)
		310.00	11.19	620.00	6.51
0.00	20.87	320.00	10.95	630.00	6.41
10.00	20.86	330.00	10.64	640.00	6.34
20.00	20.88	340.00	10.39	650.00	6.29
30.00	20.89	350.00	10.10	660.00	6.15
40.00	20.89	360.00	9.90	670.00	6.08
50.00	20.88	370.00	9.78	680.00	6.01
60.00	20.89	380.00	9.58	690.00	5.93
70.00	20.89	390.00	9.37	700.00	5.91
80.00	20.82	400.00	9.23	710.00	5.90
90.00	19.75	410.00	9.11	720.00	5.82
100.00	18.87	420.00	8.91	730.00	5.78
110.00	18.29	430.00	8.75	740.00	5.75
120.00	17.81	440.00	8.62	750.00	5.72
130.00	17.08	450.00	8.45	760.00	5.65
140.00	16.56	460.00	8.34	770.00	5.62
150.00	16.30	470.00	8.22	780.00	5.56
160.00	15.82	480.00	8.06	790.00	5.51
170.00	15.47	490.00	7.88	800.00	5.49
180.00	15.13	500.00	7.77	810.00	5.44
190.00	14.72	510.00	7.62		
200.00	14.34	520.00	7.42		
210.00	13.79	530.00	7.34		
220.00	13.41	540.00	7.28		
230.00	13.15	550.00	7.15		
240.00	12.91	560.00	7.06		
250.00	12.59	570.00	6.95		
260.00	12.31	580.00	6.85		
270.00	12.16	590.00	6.76		
280.00	11.89	600.00	6.70		
290.00	11.72	610.00	6.65		
300.00	11.45				

Cruise: GULFCET 04  
Latitude: 28° 02.23' N

Station: 12-EX2  
Longitude: 88° 50.69' W

Probe Type: T-7  
Date: 14-Feb-1993

Time: 1048

Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)
0.00	21.92	310.00	13.68	620.00	7.74
10.00	21.87	320.00	13.37	630.00	7.67
20.00	21.87	330.00	13.04	640.00	7.58
30.00	21.87	340.00	12.74	650.00	7.47
40.00	21.87	350.00	12.46	660.00	7.39
50.00	21.86	360.00	12.19	670.00	7.27
60.00	21.86	370.00	12.05	680.00	7.19
70.00	21.87	380.00	11.85	690.00	7.11
80.00	21.87	390.00	11.63	700.00	6.98
90.00	21.87	400.00	11.41	710.00	6.88
100.00	21.86	410.00	11.22	720.00	6.82
110.00	21.86	420.00	10.99	730.00	6.72
120.00	21.56	430.00	10.81	740.00	6.60
130.00	20.26	440.00	10.60	750.00	6.54
140.00	19.42	450.00	10.45	760.00	6.47
150.00	18.98	460.00	10.31	770.00	6.39
160.00	18.53	470.00	10.15	780.00	6.32
170.00	18.04	480.00	10.01	790.00	6.24
180.00	17.62	490.00	9.84	800.00	6.16
190.00	17.28	500.00	9.66	810.00	6.08
200.00	17.02	510.00	9.48	820.00	6.03
210.00	16.47	520.00	9.24		
220.00	16.18	530.00	9.06		
230.00	15.97	540.00	8.89		
240.00	15.75	550.00	8.77		
250.00	15.39	560.00	8.57		
260.00	15.07	570.00	8.41		
270.00	14.73	580.00	8.25		
280.00	14.48	590.00	8.13		
290.00	14.32	600.00	7.94		
300.00	13.96	610.00	7.80		

Cruise: GULFCET 04  
Latitude: 28° 42.52' N

Station: 12-EX1  
Longitude: 88° 50.02' W

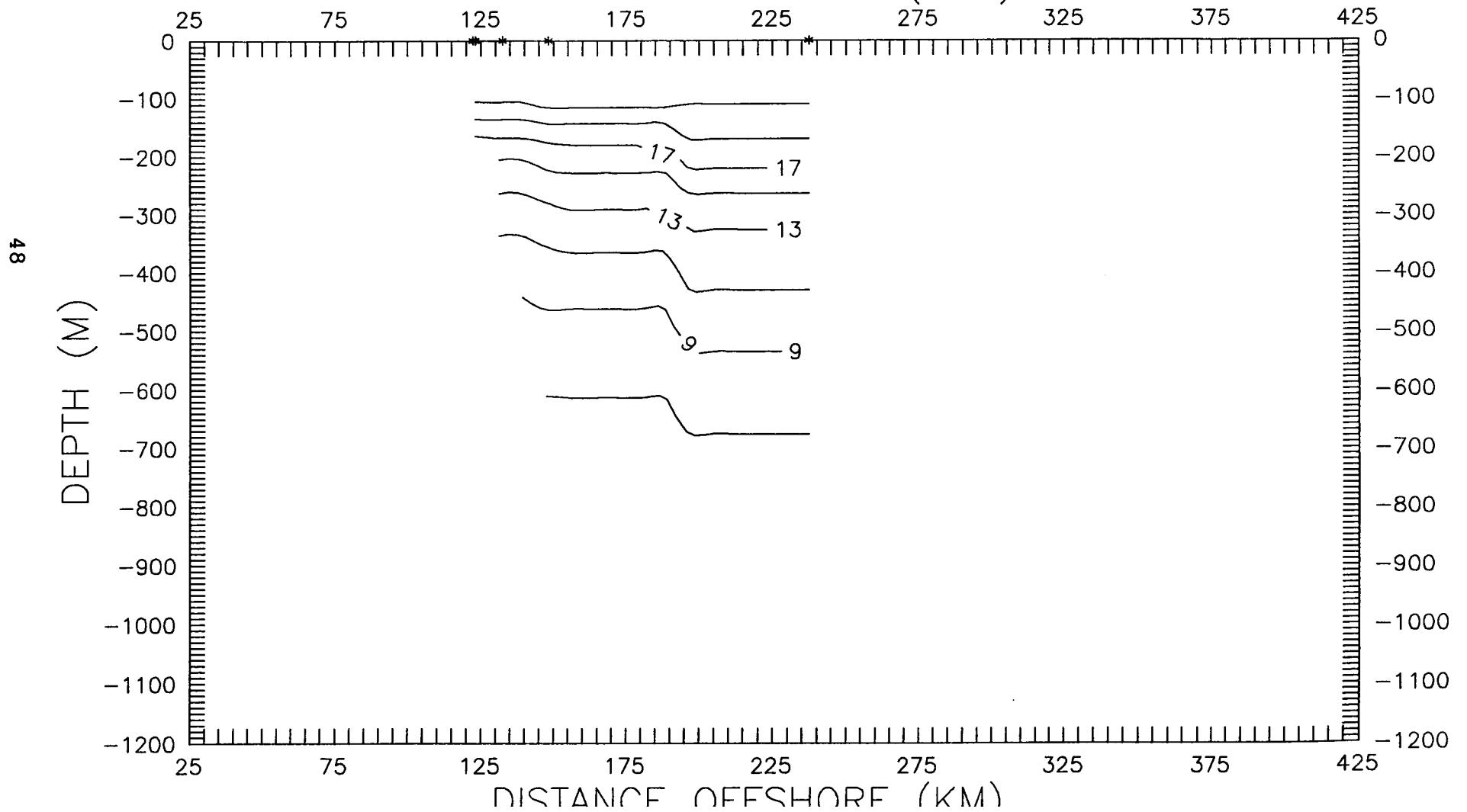
Probe Type: T-7  
Date: 14-Feb-1993

Time: 0325

Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)
0.00	21.14	310.00	12.30	620.00	6.97
10.00	22.49	320.00	12.00	630.00	6.72
20.00	22.61	330.00	11.73	640.00	6.57
30.00	22.63	340.00	11.46	650.00	6.36
40.00	22.54	350.00	11.30	660.00	6.29
50.00	22.42	360.00	11.12	670.00	6.21
60.00	22.15	370.00	10.92	680.00	6.10
70.00	22.05	380.00	10.75	690.00	6.04
80.00	22.04	390.00	10.58	700.00	5.95
90.00	22.04	400.00	10.33	710.00	5.89
100.00	21.11	410.00	10.24	720.00	5.82
110.00	19.71	420.00	10.20	730.00	5.77
120.00	18.98	430.00	10.09	740.00	5.75
130.00	18.42	440.00	9.95	750.00	5.72
140.00	17.90	450.00	9.87	760.00	5.66
150.00	17.49	460.00	9.78	770.00	5.58
160.00	17.08	470.00	9.60	780.00	5.58
170.00	16.77	480.00	9.39	790.00	5.58
180.00	16.49	490.00	9.27	800.00	5.54
190.00	16.14	500.00	9.13	810.00	5.50
200.00	15.73	510.00	8.98	820.00	5.41
210.00	15.49	520.00	8.81		
220.00	15.12	530.00	8.68		
230.00	14.66	540.00	8.50		
240.00	14.30	550.00	8.25		
250.00	14.05	560.00	8.06		
260.00	13.67	570.00	7.78		
270.00	13.43	580.00	7.58		
280.00	13.11	590.00	7.53		
290.00	12.85	600.00	7.37		
300.00	12.60	610.00	7.11		

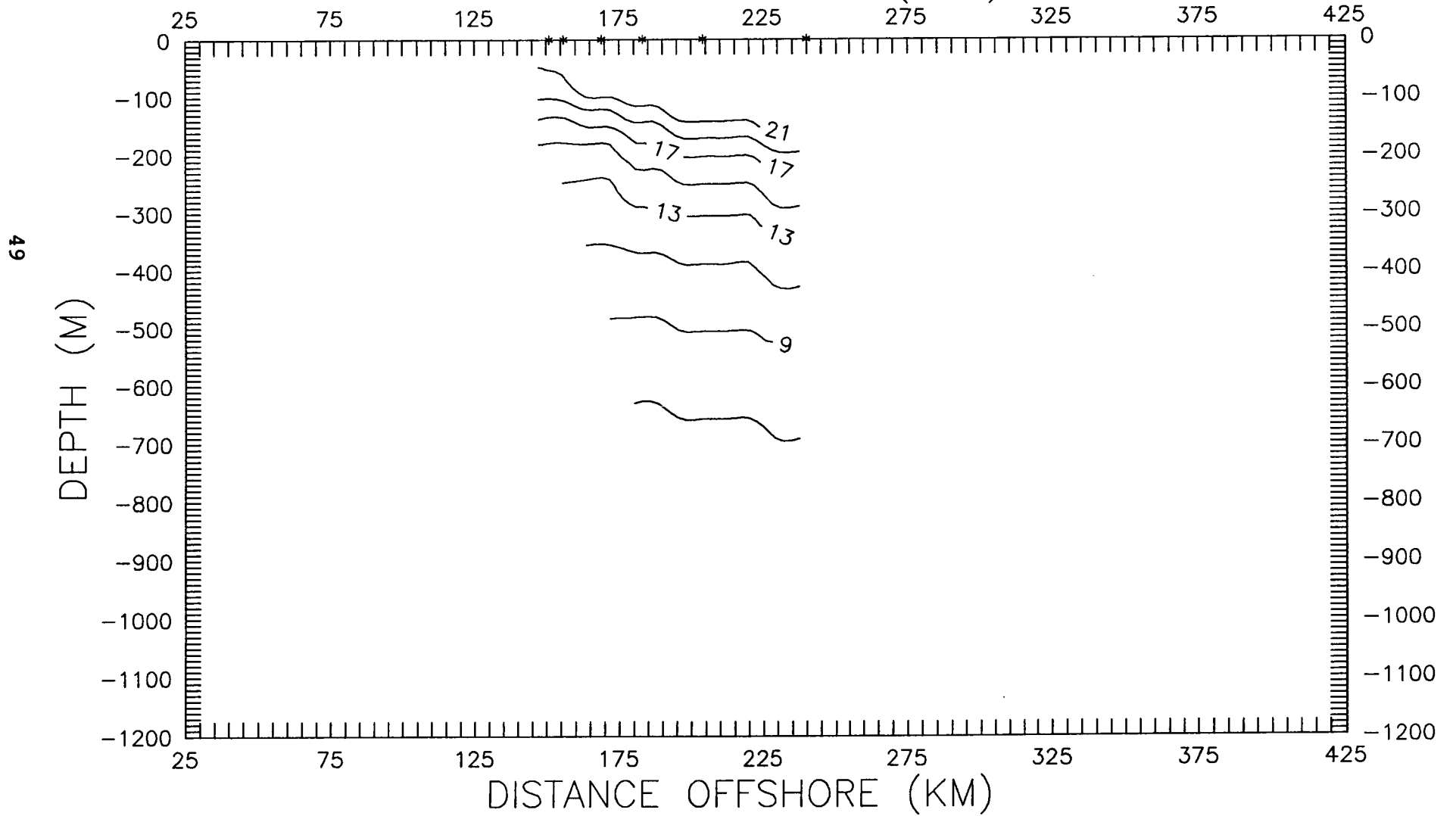
# GULFCET 04: LINE 02

## XBT TEMPERATURE ( °C)



# GULFCET 04: LINE 03

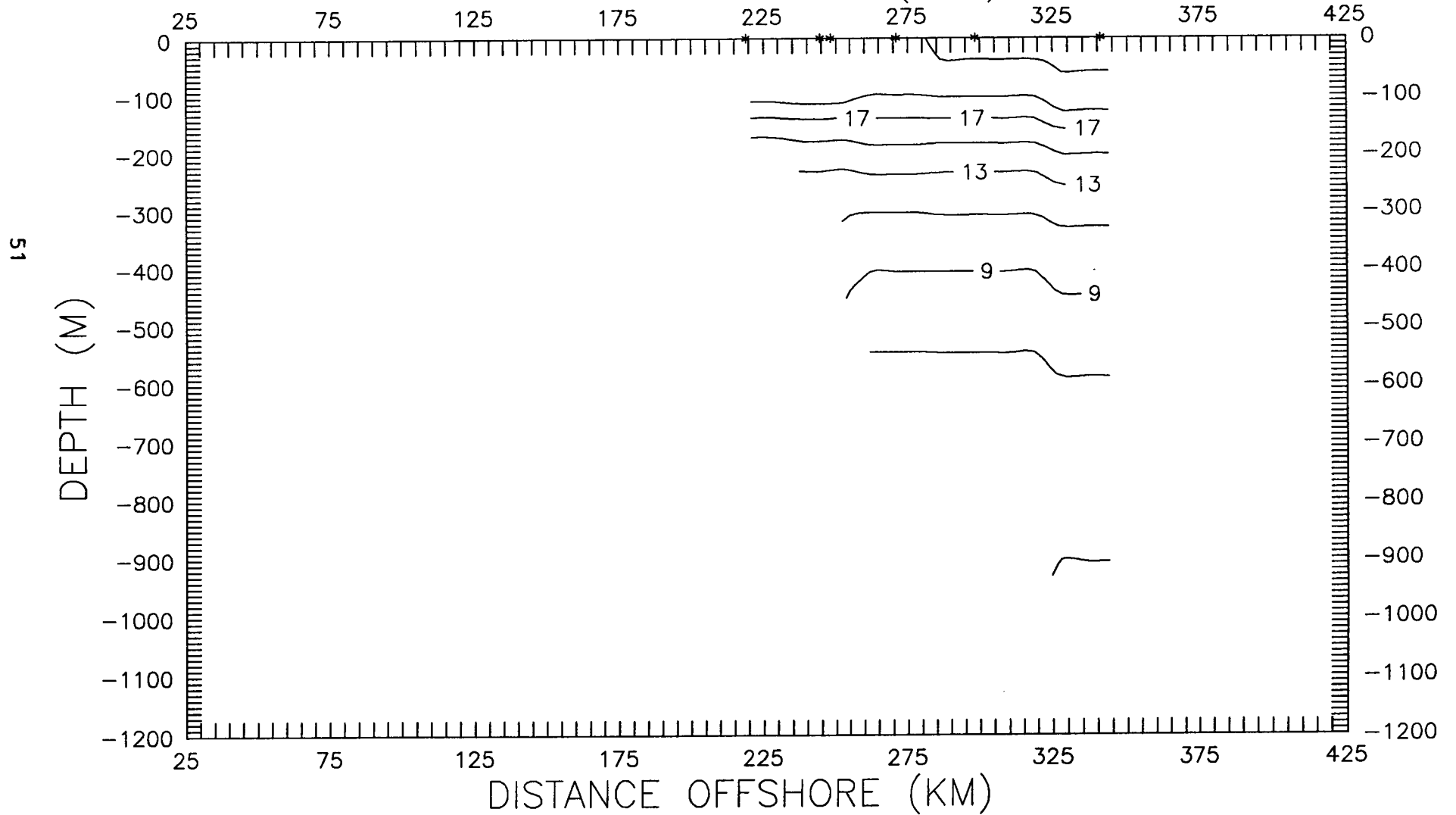
## XBT TEMPERATURE ( °C)





GULFCET 04: LINE 05

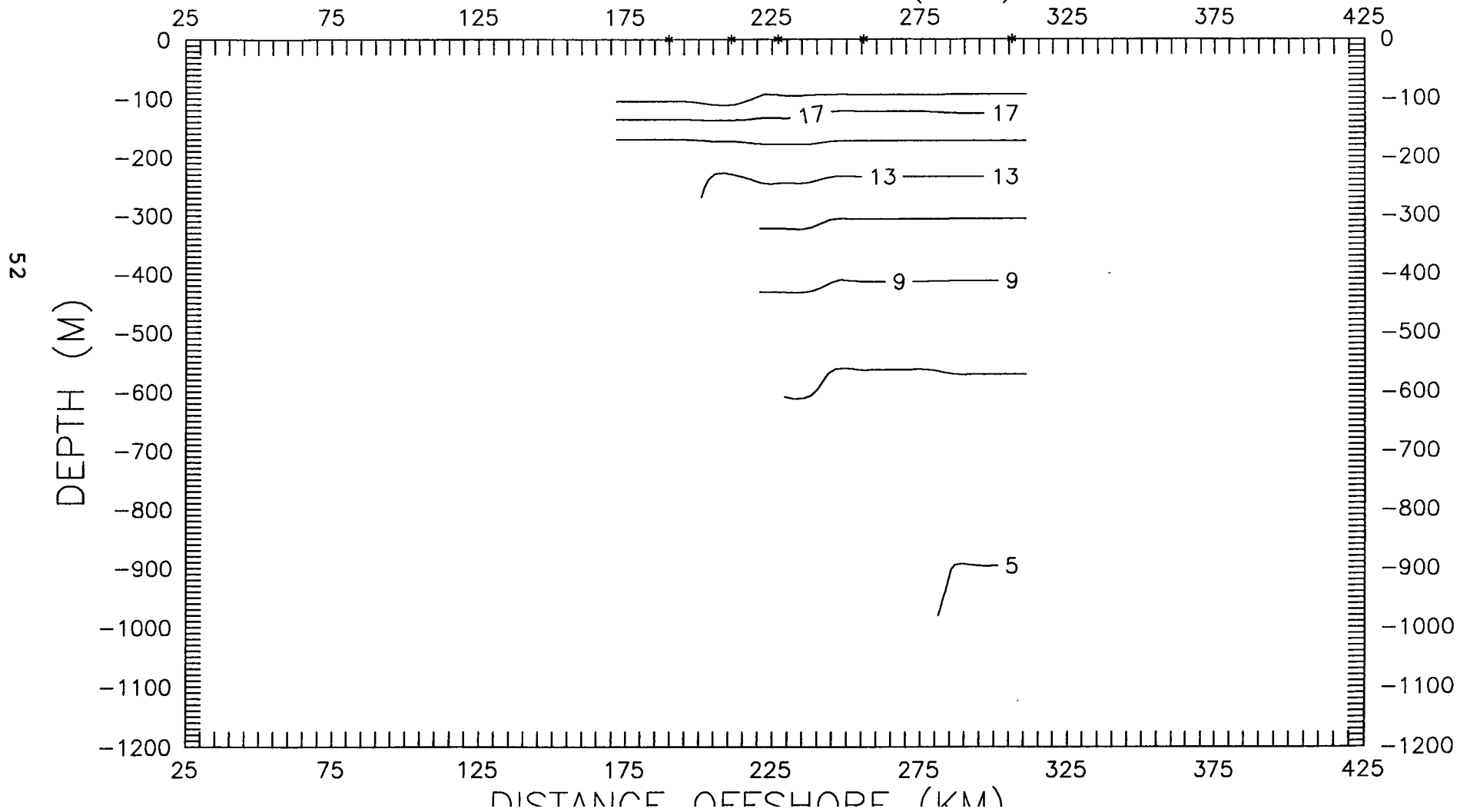
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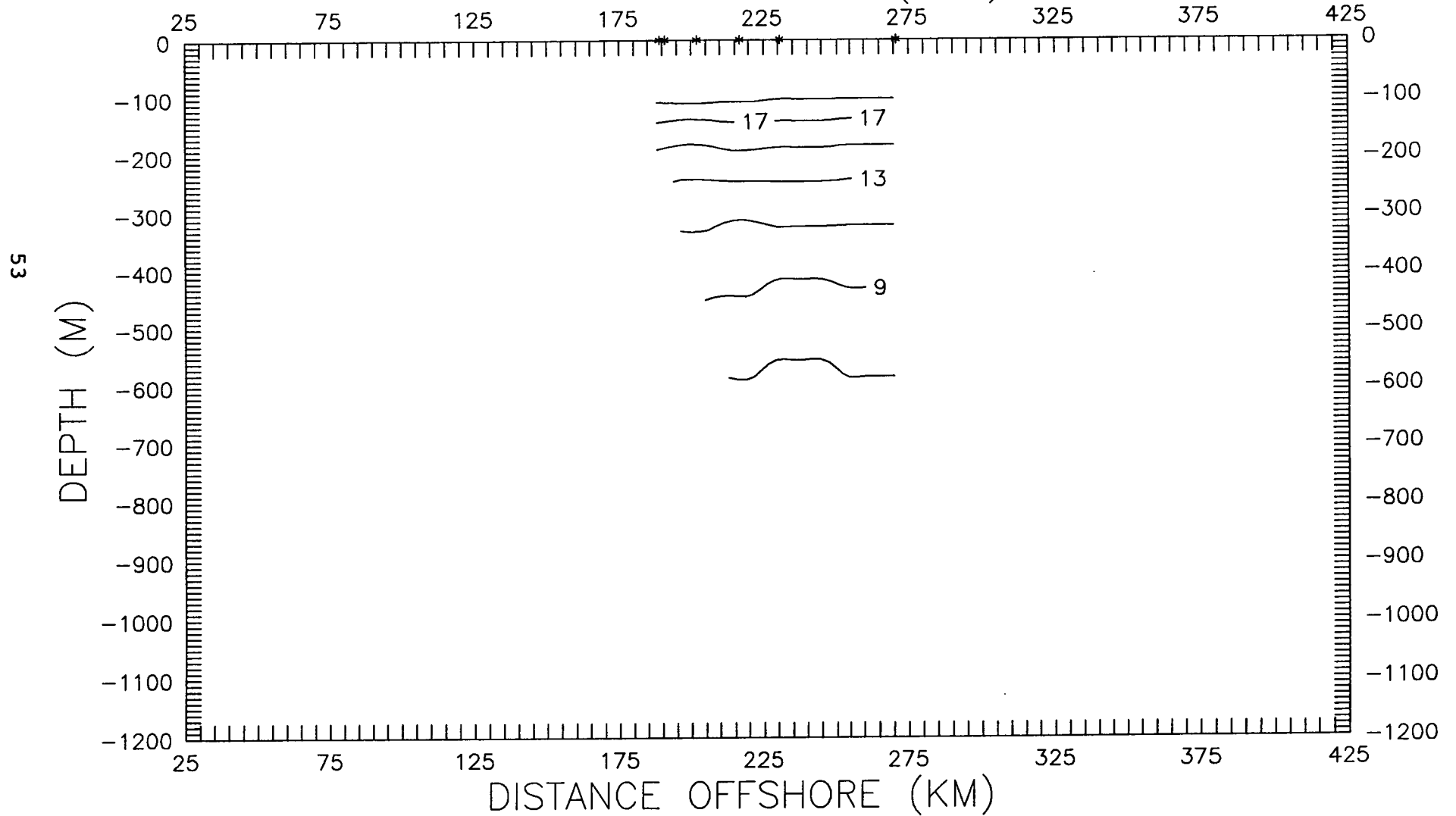
# GULFCET 04: LINE 06

## XBT TEMPERATURE ( °C)



# GULFCET 04: LINE 07

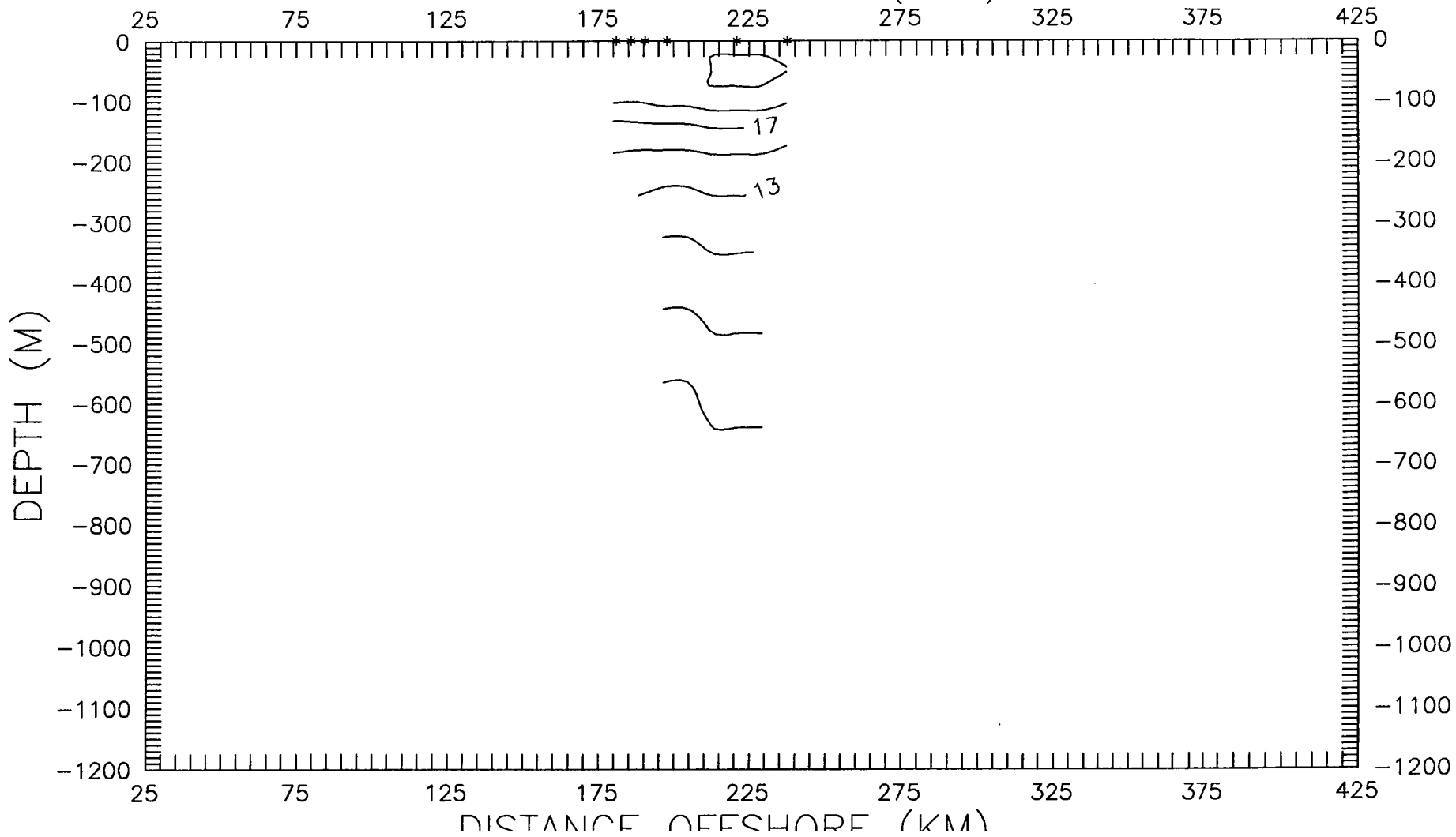
## XBT TEMPERATURE ( °C)



GULFCET 04: LINE 08

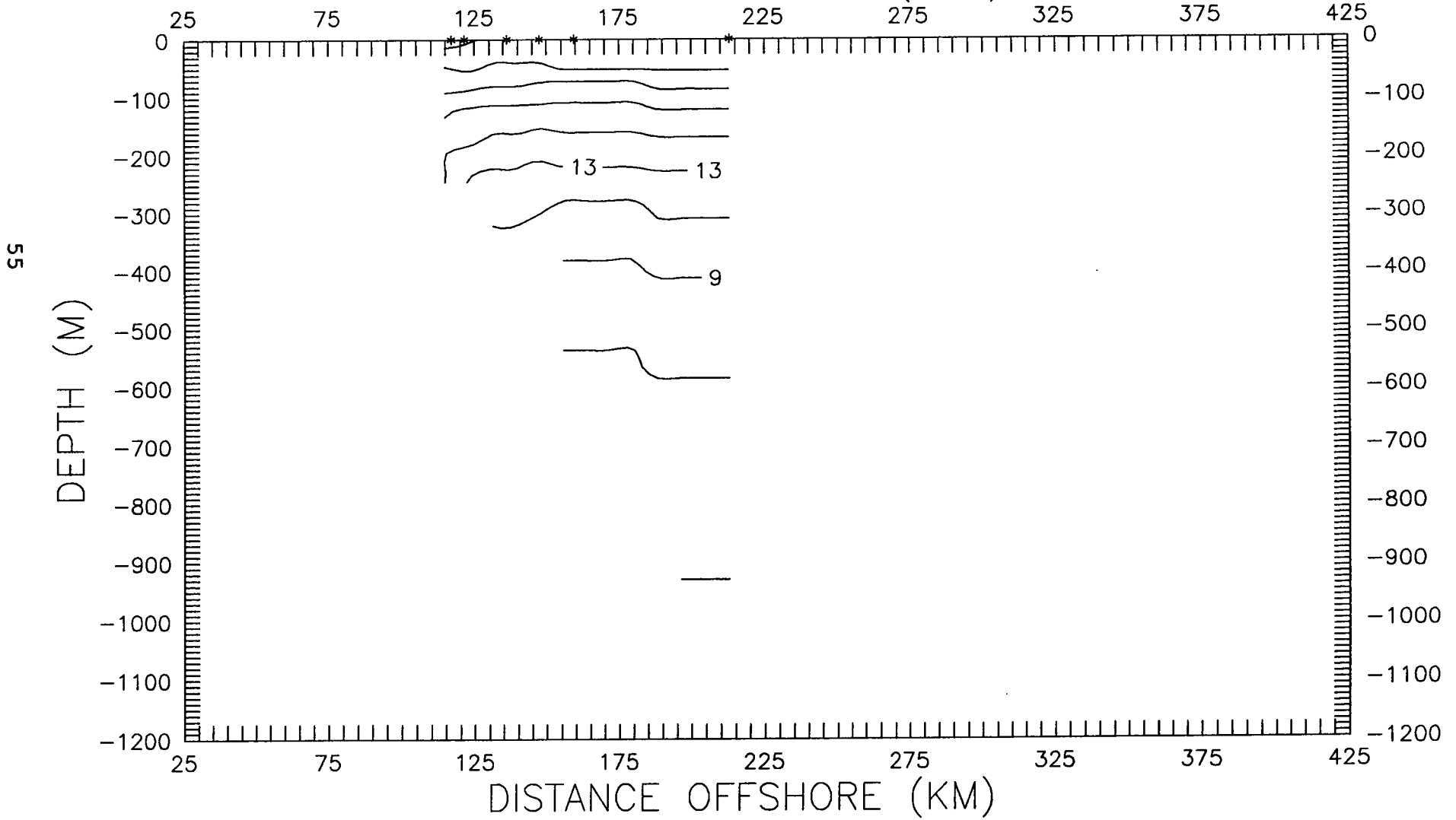
XBT TEMPERATURE ( °C)

54



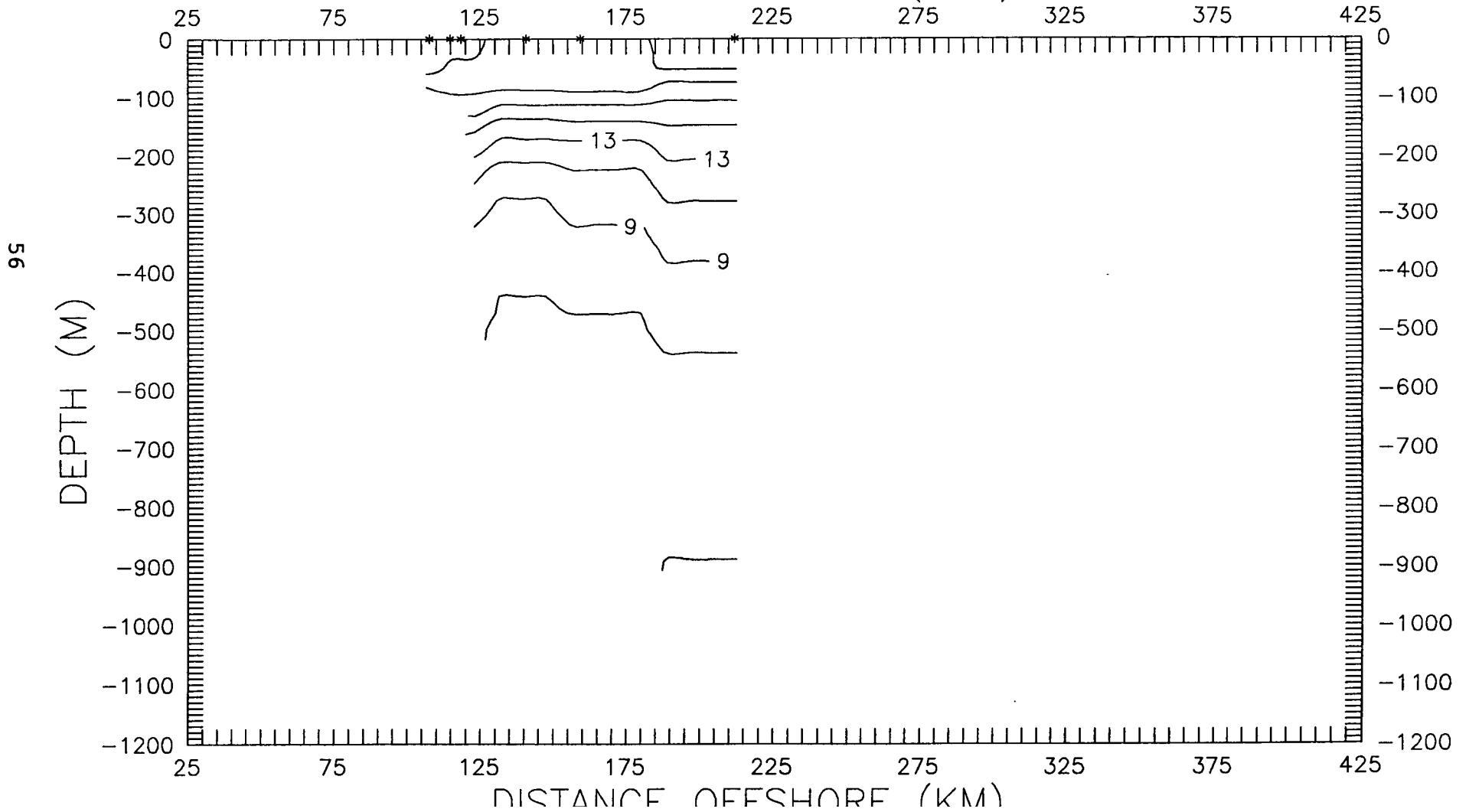
GULFCET 04: LINE 09

XBT TEMPERATURE ( °C)



# GULFCET 04: LINE 10

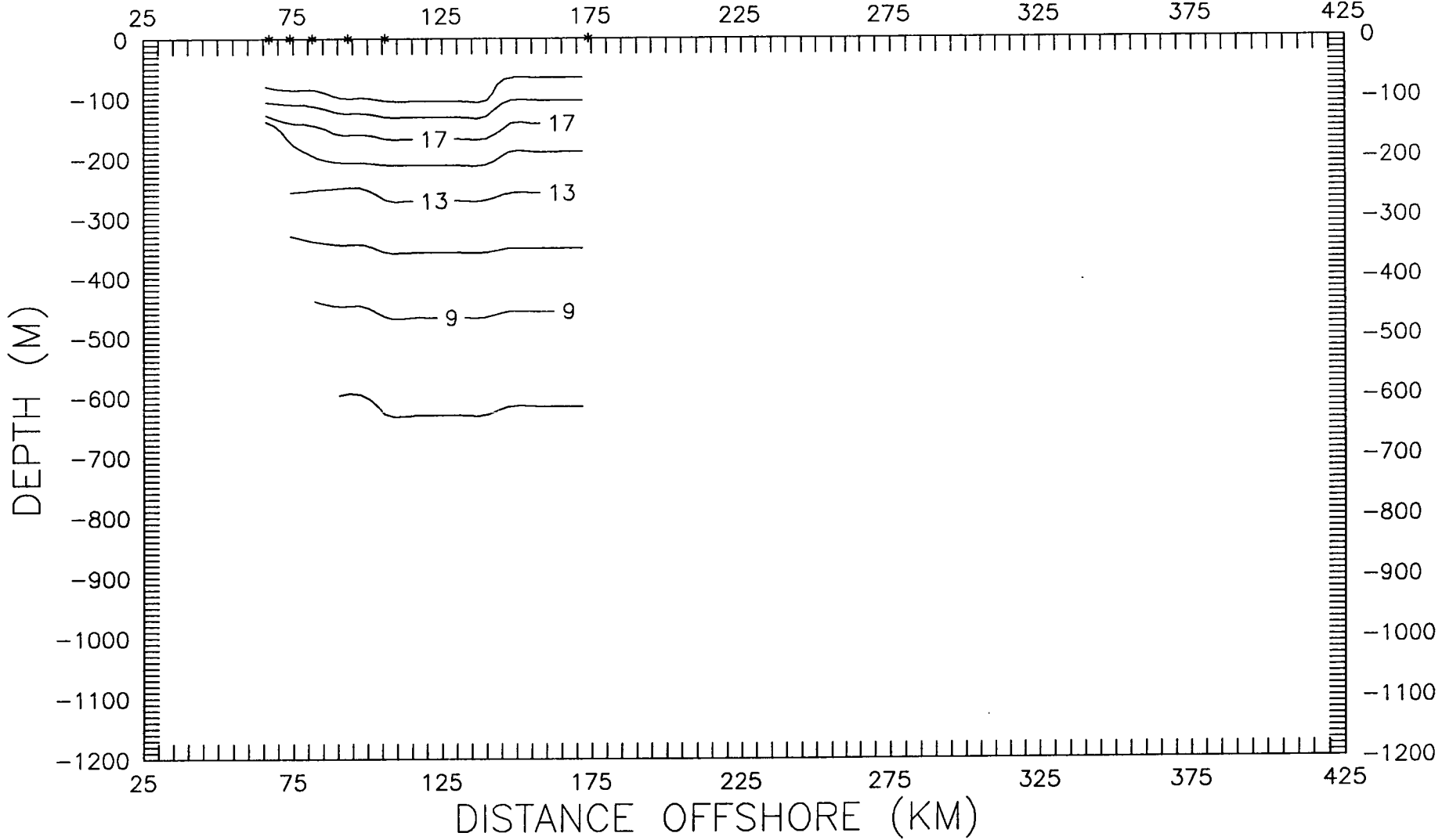
## XBT TEMPERATURE ( °C)



GULFCET 04: LINE 11

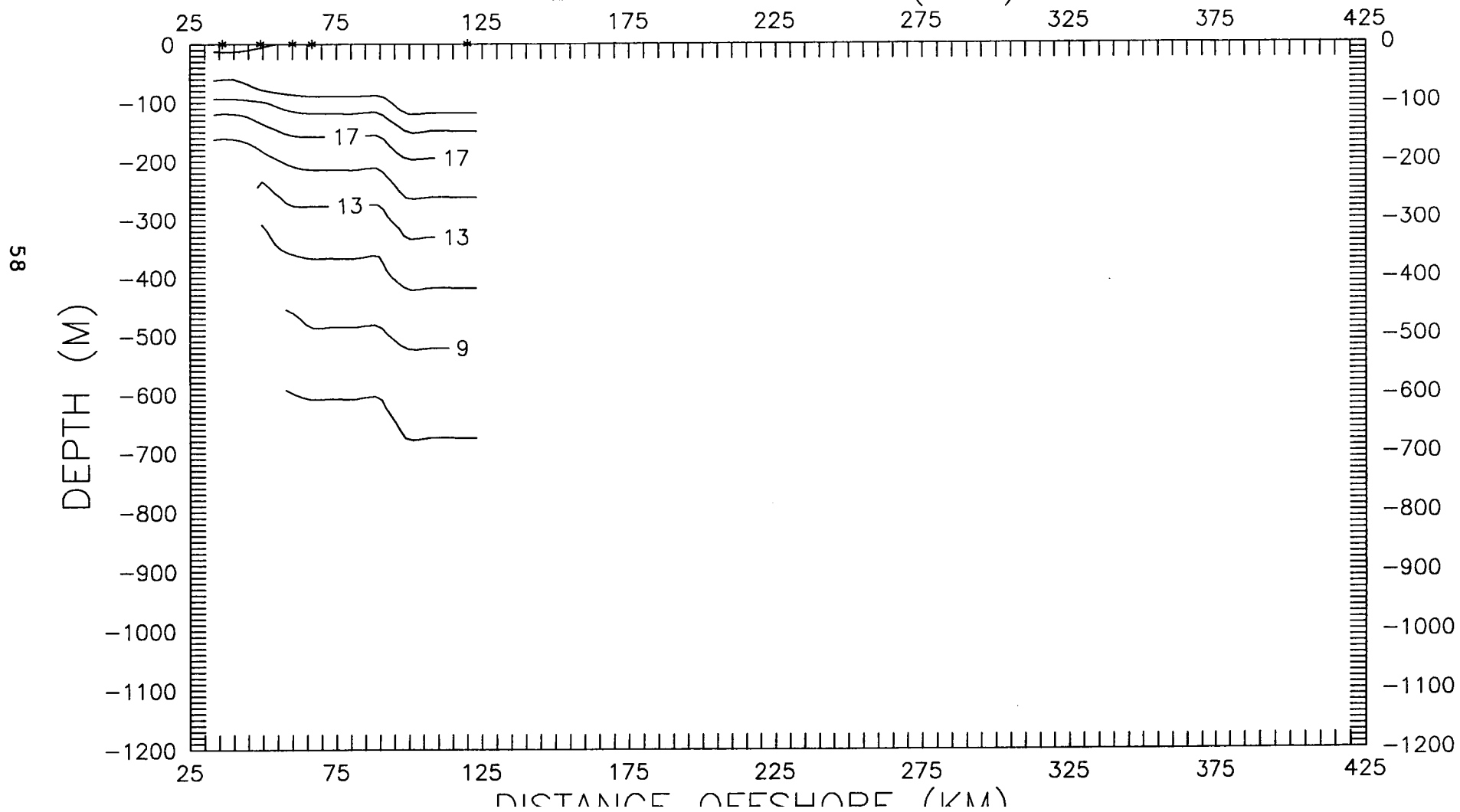
XBT TEMPERATURE ( °C)

57



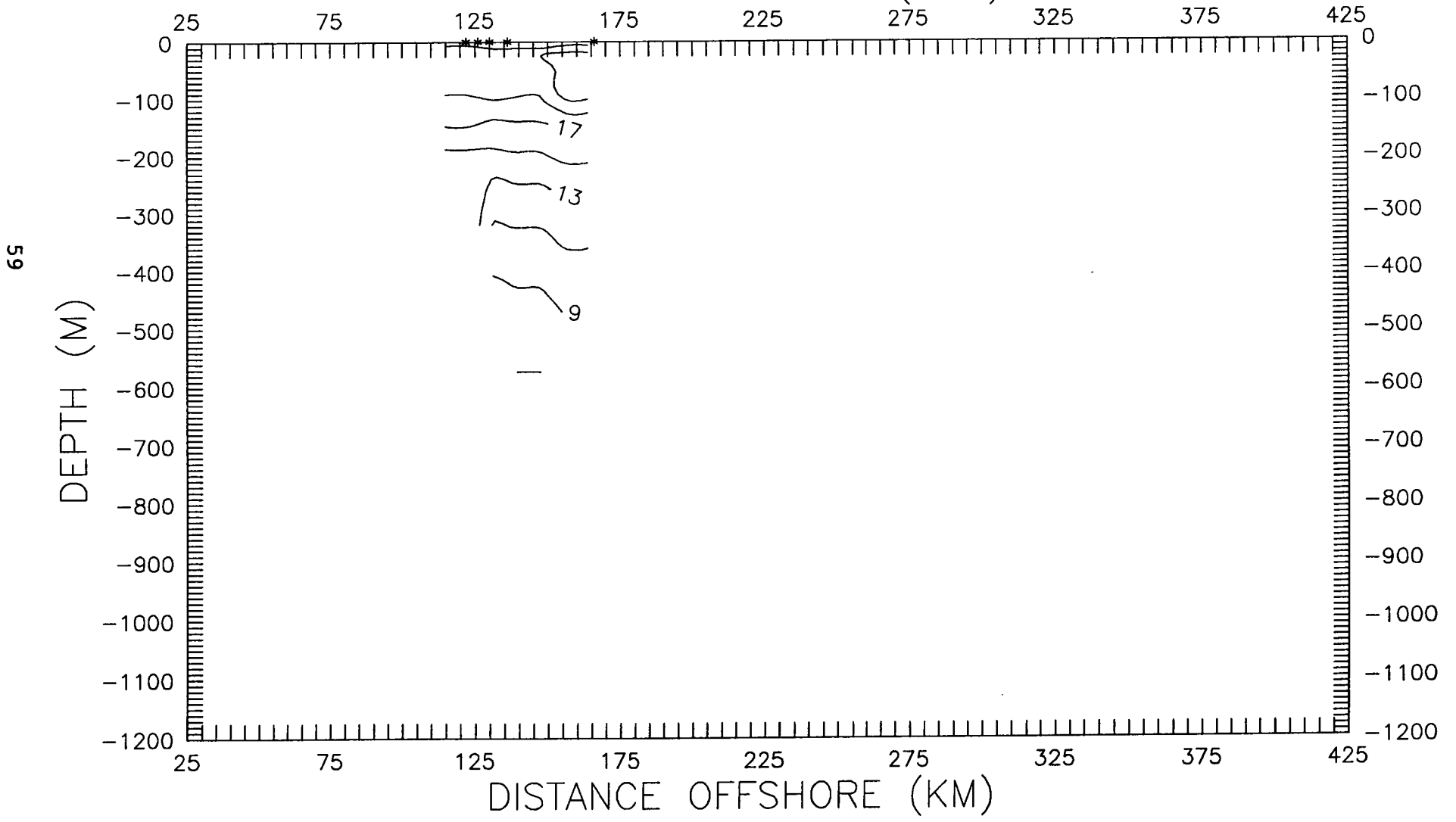
# GULFCET 04: LINE 12

## XBT TEMPERATURE ( °C)



# GULFCET 04: LINE 13

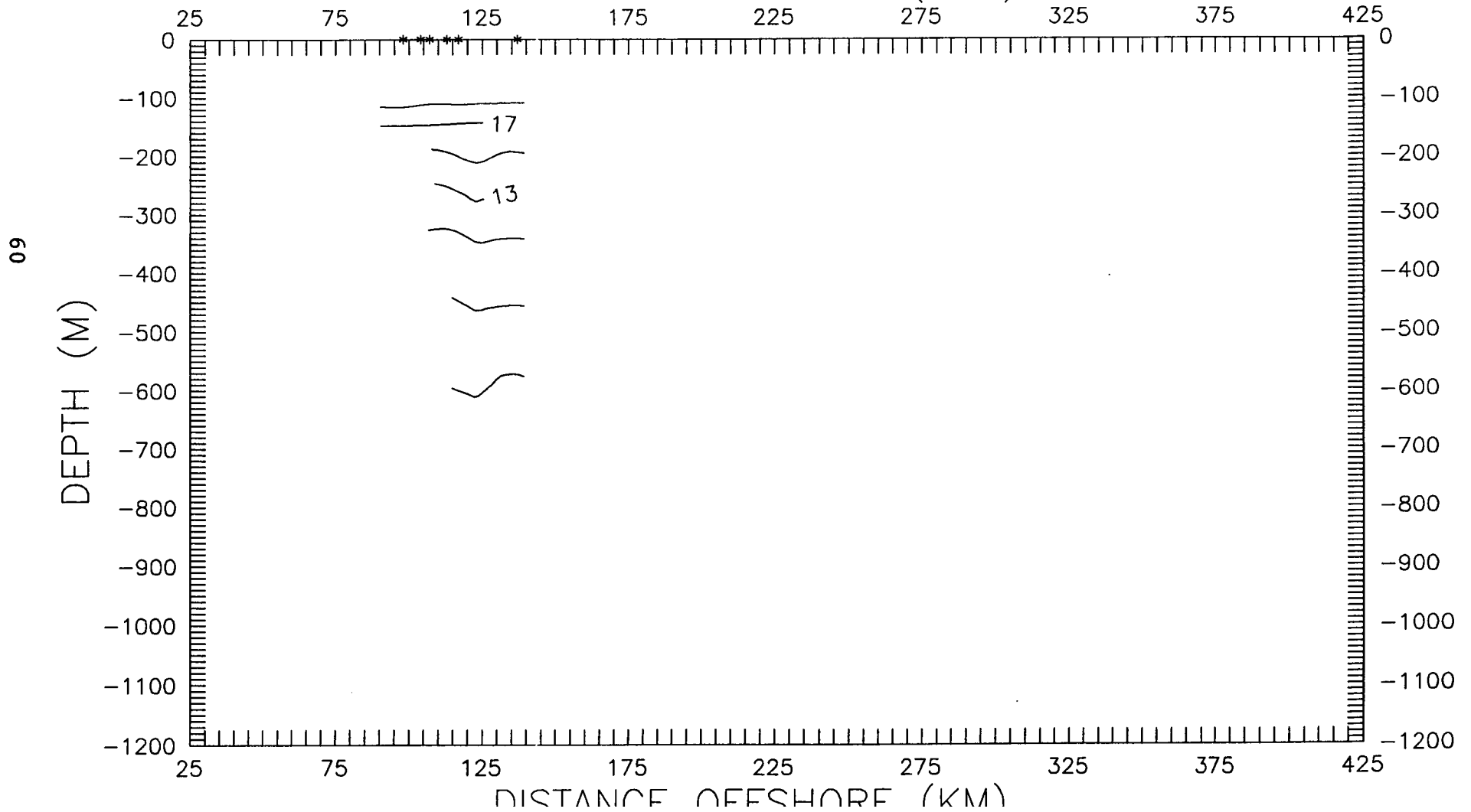
## XBT TEMPERATURE ( °C)





# GULFCET 04: LINE 14

## XBT TEMPERATURE ( °C)



**CONDUCTIVITY/ TEMPERATURE/DEPTH (CTD) DATA:**

**-DATA SUMMARY TABLES**

**-PLOTS OF TEMPERATURE, SALINITY, AND SOUND  
VELOCITY VERSUS DEPTH**

**- PLOTS OF TEMPERATURE VERSUS SALINITY VERSUS DENSITY FOR :  
ALL CTD STATIONS, OFFSHORE STATIONS (STATIONS AT THE 2000 M  
ISOBATH), INSHORE STATIONS (STATIONS AT 100 M ISOBATH (EXCEPT  
STATIONS 11-106 AND 12-125)), AND EVERY TWO TRACK LINES  
COMBINED**

Cruise: GULFCET 04  
 Date: 24-Feb-93  
 Depth: 1600 m  
 Barometer: 29.54 in Hg

Station: 02-010  
 Time: 1452  
 Wind Dir: 125.5 °  
 Air Temp Dry:

Lat: 26 00.02  
 Wind Speed: 12.4 m/s  
 Air Temp Wet:

Long: 95 30.02  
 Wave Dir:  
 Secchi Depth:

Depth	Temp.	Pot. Temp.	Salinity	Density	SVA	Sound V	Oxy.	Fluor.	Pressure
10	23.456	23.454	35.873	24.465	346.12	1531.71	5.007		10.07
20	23.455	23.451	35.871	24.463	346.64	1531.87	4.893		20.14
30	23.458	23.452	35.873	24.464	346.97	1532.05	4.951		30.20
50	23.529	23.518	36.076	24.598	335.05	1532.79	4.908		50.34
75	22.669	22.654	36.172	24.920	305.30	1531.14	4.790		75.52
100	21.602	21.582	36.306	25.324	267.75	1528.93	4.238		100.69
125	20.254	20.230	36.428	25.785	224.74	1525.86	3.473		125.88
150	19.371	19.343	36.464	26.046	200.72	1523.87	3.064		151.06
200	17.107	17.073	36.264	26.460	162.62	1517.93	3.020		201.44
250	14.908	14.870	35.947	26.724	138.52	1511.65	2.971		251.83
300	13.847	13.803	35.788	26.829	129.50	1508.89	2.926		302.23
400	11.714	11.662	35.461	27.003	114.46	1503.05	2.815		403.07
500	9.599	9.541	35.162	27.147	101.32	1496.88	2.852		503.96
600	7.870	7.808	34.973	27.273	89.49	1491.90	2.988		604.90
700	6.787	6.720	34.906	27.374	80.10	1489.33	3.292		705.89
800	6.010	5.937	34.894	27.468	71.50	1487.92	3.583		806.92
900	5.501	5.422	34.898	27.535	65.57	1487.57	3.926		908.01

Cruise: GULFCET 04  
 Date: 24-Feb-93  
 Depth: 1320 m  
 Barometer: 29.64 in Hg

Station: 02-013  
 Time: 0400  
 Wind Dir: 123.8 °  
 Air Temp Dry: 21.3 °C

Lat: 26 46.00  
 Wind Speed: 10.0 m/s  
 Air Temp Wet: 19.0 °C

Long: 95 29.97  
 Wave Dir:  
 Secchi Depth:

Depth	Temp.	Pot. Temp.	Salinity	Density	SVA	Sound V	Oxy.	Fluor.	Pressure
10	22.746	22.744	36.120	24.858	308.68	1530.18	4.210		10.07
20	22.760	22.756	36.129	24.861	308.81	1530.40	4.066		20.14
30	22.766	22.760	36.134	24.863	308.97	1530.58	4.126		30.20
50	22.602	22.592	36.123	24.902	306.04	1530.49	4.015		50.34
75	22.712	22.697	36.179	24.913	305.95	1531.25	4.083		75.52
100	22.760	22.739	36.380	25.052	293.72	1532.02	3.839		100.69
125	21.689	21.664	36.430	25.393	262.10	1529.71	3.760		125.88
150	20.548	20.519	36.704	25.917	213.20	1527.39	3.387		151.06
200	18.305	18.270	36.664	26.472	161.86	1521.90	2.908		201.44
250	16.006	15.966	36.197	26.668	144.21	1515.36	2.770		251.83
300	14.330	14.285	35.960	26.860	126.85	1510.66	2.746		302.23
400	11.918	11.865	35.553	27.035	111.55	1503.86	2.662		403.07
500	10.014	9.954	35.250	27.145	101.94	1498.49	2.677		503.96
600	8.265	8.201	35.048	27.272	90.09	1493.48	2.781		604.90
700	7.136	7.067	34.958	27.367	81.32	1490.74	2.985		705.89
800	6.246	6.172	34.915	27.454	73.24	1488.89	3.346		806.92
900	5.666	5.586	34.912	27.525	66.80	1488.25	3.667		908.01

**Cruise:** GULFCET 04      **Station:** 02-015  
**Date:** 23-Feb-93      **Time:** 2018      **Lat:** 27 26.02      **Long:** 95 29.97  
**Depth:** 875 m      **Wind Dir:** 119.8 °      **Wind Speed:** 7.6 m/s      **Wave Dir:**  
**Barometer:** 29.69 in Hg      **Air Temp Dry:** 21.1 °C      **Air Temp Wet:** 17.2 °C      **Secchi Depth:**

Depth	Temp.	Pot. Temp.	Salinity	Density	SVA	Sound V	Oxy.	Fluor.	Pressure
10	22.675	22.673	35.925	24.731	320.79	1529.79	4.752		10.07
20	22.679	22.675	35.924	24.729	321.39	1529.96	4.807		20.14
30	22.673	22.667	35.925	24.731	321.56	1530.12	4.898		30.20
50	22.775	22.765	36.148	24.871	308.98	1530.96	4.805		50.34
75	22.763	22.747	36.313	25.000	297.64	1531.53	4.728		75.52
100	22.721	22.700	36.411	25.086	290.46	1531.95	4.619		100.69
125	20.642	20.618	36.456	25.702	232.69	1526.94	3.619		125.88
150	19.051	19.024	36.530	26.179	188.00	1523.04	3.155		151.06
200	16.240	16.208	36.155	26.582	150.83	1515.19	2.904		201.44
250	14.512	14.474	35.894	26.769	134.06	1510.33	2.990		251.83
300	13.103	13.061	35.676	26.897	122.78	1506.32	2.886		302.23
400	10.402	10.354	35.271	27.094	104.89	1498.23	2.854		403.07
500	8.796	8.741	35.066	27.203	95.31	1493.82	2.944		503.96
600	7.374	7.314	34.941	27.320	84.49	1489.97	3.141		604.90
700	6.417	6.352	34.893	27.414	75.80	1487.86	3.513		705.89
800	5.554	5.484	34.899	27.529	64.99	1486.11	4.054		806.92

**Cruise:** GULFCET 04      **Station:** 02-020  
**Date:** 23-Feb-93      **Time:** 1627      **Lat:** 27 47.00      **Long:** 95 30.02  
**Depth:** 96 m      **Wind Dir:** 102.0 °      **Wind Speed:** 5.9 m/s      **Wave Dir:** 285 °  
**Barometer:** 29.67 in Hg      **Air Temp Dry:** 21.5 °C      **Air Temp Wet:** 16.8 °C      **Secchi Depth:** 16.0 m

Depth	Temp.	Pot. Temp.	Salinity	Density	SVA	Sound V	Oxy.	Fluor.	Pressure
10	22.668	22.666	36.063	24.837	310.68	1529.92	4.878		10.07
20	22.678	22.674	36.063	24.835	311.28	1530.11	4.840		20.14
30	22.505	22.499	36.018	24.850	310.24	1529.79	4.896		30.20
50	22.129	22.119	35.942	24.899	306.32	1529.07	4.884		50.34
75	20.987	20.972	35.853	25.149	283.38	1526.36	4.869		75.52

**Cruise:** GULFCET 04      **Station:** 03-021  
**Date:** 23-Feb-93      **Time:** 1131      **Lat:** 27 56.07      **Long:** 94 50.00  
**Depth:** 102 m      **Wind Dir:** 92.5 °      **Wind Speed:** 4.7 m/s      **Wave Dir:** 270 °  
**Barometer:** 29.75 in Hg      **Air Temp Dry:** 21.0 °C      **Air Temp Wet:** 16.0 °C      **Secchi Depth:** 15.0 m

Depth	Temp.	Pot. Temp.	Salinity	Density	SVA	Sound V	Oxy.	Fluor.	Pressure
10	21.091	21.090	35.827	25.101	285.58	1525.52	5.448		10.07
20	20.963	20.959	35.854	25.156	280.66	1525.38	5.457		20.14
30	20.859	20.853	35.866	25.193	277.48	1525.28	5.420		30.20
50	20.731	20.721	35.873	25.233	274.41	1525.28	5.537		50.34
75	20.131	20.117	35.980	25.476	252.21	1524.18	5.220		75.52

Cruise: GULFCET 04  
 Date: 23-Feb-93  
 Depth: 905 m  
 Barometer: 29.81 in Hg

Station: 03-026  
 Time: 0550  
 Wind Dir: 69.5 °  
 Air Temp Dry: 20.0 °C

Lat: 27 26.00  
 Wind Speed: 7.8 m/s  
 Air Temp Wet: 16.7 °C

Long: 94 49.91  
 Wave Dir:  
 Secchi Depth:

Depth	Temp.	Pot. Temp.	Salinity	Density	SVA	Sound V	Oxy.	Fluor.	Pressure
10	22.804	22.802	36.094	24.822	312.11	1530.30	4.737		10.07
20	22.804	22.800	36.095	24.823	312.44	1530.47	4.759		20.14
30	22.806	22.799	36.096	24.823	312.82	1530.64	4.764		30.20
50	22.714	22.704	36.372	25.059	291.13	1531.05	4.701		50.34
75	22.765	22.750	36.438	25.094	288.71	1531.67	4.646		75.52
100	22.746	22.725	36.442	25.103	288.90	1532.05	4.683		100.69
125	22.053	22.028	36.294	25.188	281.64	1530.52	4.522		125.88
150	20.243	20.215	36.665	25.969	208.19	1526.51	3.308		151.06
200	17.160	17.126	36.295	26.472	161.57	1518.12	3.084		201.44
250	15.062	15.023	35.972	26.708	140.01	1512.16	2.912		251.83
300	13.245	13.202	35.717	26.900	122.55	1506.84	2.930		302.23
400	11.011	10.961	35.364	27.058	108.75	1500.49	2.775		403.07
500	9.254	9.197	35.132	27.180	97.86	1495.59	2.820		503.96
600	7.943	7.880	34.983	27.270	89.89	1492.19	3.025		604.90
700	6.729	6.662	34.904	27.381	79.39	1489.10	3.289		705.89
800	5.786	5.714	34.894	27.497	68.41	1487.03	3.834		806.92

Cruise: GULFCET 04  
 Date: 22-Feb-93  
 Depth: 1420 m  
 Barometer: 29.64 in Hg

Station: 03-029  
 Time: 2137  
 Wind Dir: 26.4 °  
 Air Temp Dry: 21.2 °C

Lat: 26 45.89  
 Wind Speed: 6.4 m/s  
 Air Temp Wet: 19.8 °C

Long: 94 50.02  
 Wave Dir:  
 Secchi Depth:

Depth	Temp.	Pot. Temp.	Salinity	Density	SVA	Sound V	Oxy.	Fluor.	Pressure
10	22.713	22.711	36.147	24.888	305.80	1530.13	4.063		10.07
20	22.706	22.702	36.143	24.887	306.28	1530.27	3.630		20.14
30	22.714	22.708	36.140	24.883	307.10	1530.46	3.679		30.20
50	22.771	22.761	36.436	25.091	288.07	1531.26	5.162		50.34
75	22.754	22.739	36.443	25.101	288.09	1531.65	4.947		75.52
100	22.734	22.713	36.452	25.114	287.84	1532.03	4.869		100.69
125	22.655	22.629	36.448	25.133	286.94	1532.24	4.833		125.88
150	22.659	22.628	36.449	25.133	287.94	1532.68	4.765		151.06
200	20.368	20.330	36.716	25.974	209.54	1527.75	3.535		201.44
250	17.384	17.341	36.340	26.452	165.20	1519.68	3.368		251.83
300	15.834	15.786	36.098	26.632	149.09	1515.55	3.260		302.23
400	12.855	12.800	35.630	26.911	123.96	1507.11	3.036		403.07
500	10.644	10.582	35.307	27.080	108.68	1500.80	2.929		503.96
600	8.610	8.545	35.039	27.211	96.19	1494.77	2.921		604.90
700	7.253	7.184	34.921	27.322	85.75	1491.15	3.125		705.89
800	6.279	6.205	34.891	27.431	75.44	1488.99	3.545		806.92
900	5.762	5.681	34.894	27.499	69.43	1488.61	3.793		908.01

Cruise: GULFCET 04  
 Date: 22-Feb-93  
 Depth: 2000 m  
 Barometer: 29.51 in Hg

Station: 03-030  
 Time: 1551  
 Wind Dir: 358 °  
 Air Temp Dry: 23.0 °C

Lat: 26 16.96  
 Wind Speed: 4.8 m/s  
 Air Temp Wet: 21.0 °C  
 Long: 94 50.05  
 Wave Dir: 345 °  
 Secchi Depth: 2.00 m

Depth	Temp.	Pot. Temp.	Salinity	Density	SVA	Sound V	Oxy.	Fluor.	Pressure
10	22.677	22.675	36.193	24.934	301.48	1530.08	5.032		10.07
20	22.585	22.581	36.202	24.966	298.74	1530.02	4.942		20.14
30	22.570	22.564	36.208	24.975	298.27	1530.16	4.973		30.20
50	22.674	22.664	36.344	25.049	292.02	1530.92	4.934		50.34
75	22.705	22.690	36.396	25.080	290.12	1531.47	4.812		75.52
100	22.709	22.689	36.397	25.079	291.11	1531.91	4.762		100.69
125	22.657	22.631	36.392	25.090	291.02	1532.19	4.852		125.88
150	22.680	22.649	36.404	25.093	291.72	1532.68	4.809		151.06
200	20.261	20.223	36.727	26.011	206.01	1527.47	3.513		201.44
250	17.455	17.412	36.348	26.441	166.24	1519.90	3.359		251.83
300	15.518	15.470	36.052	26.668	145.54	1514.52	3.119		302.23
400	12.538	12.483	35.591	26.944	120.61	1506.00	2.990		403.07
500	10.605	10.544	35.304	27.084	108.25	1500.66	2.889		503.96
600	8.651	8.586	35.055	27.217	95.73	1494.94	2.960		604.90
700	7.368	7.298	34.934	27.315	86.53	1491.61	3.221		705.89
800	6.527	6.451	34.897	27.403	78.52	1489.97	3.495		806.92
900	5.797	5.716	34.894	27.494	69.95	1488.75	3.842		908.01

Cruise: GULFCET 04  
 Date: 22-Feb-93  
 Depth: 2000 m  
 Barometer: 29.59 in Hg

Station: 04-031  
 Time: 0932  
 Wind Dir: 63.8 °  
 Air Temp Dry: 24.0 °C

Lat: 26 16.70  
 Wind Speed: 2.5 m/s  
 Air Temp Wet: 23.0 °C  
 Long: 94 10.12  
 Wave Dir: 350 °  
 Secchi Depth: 2.00 m

Depth	Temp.	Pot. Temp.	Salinity	Density	SVA	Sound V	Oxy.	Fluor.	Pressure
10	22.719	22.716	36.119	24.866	307.93	1530.11	4.829		10.07
20	22.693	22.689	36.114	24.869	307.99	1530.21	4.822		20.14
30	22.650	22.644	36.106	24.875	307.80	1530.26	4.824		30.20
50	22.577	22.567	36.091	24.885	307.63	1530.39	4.871		50.34
75	22.456	22.441	36.066	24.901	307.10	1530.47	4.851		75.52
100	22.383	22.363	36.073	24.926	305.61	1530.71	4.786		100.69
125	21.931	21.906	36.180	25.136	286.58	1530.07	4.486		125.88
150	20.739	20.710	36.644	25.819	222.47	1527.84	3.503		151.06
200	17.569	17.535	36.355	26.418	166.74	1519.40	3.232		201.44
250	15.534	15.495	36.046	26.660	144.79	1513.73	3.026		251.83
300	13.941	13.897	35.800	26.819	130.57	1509.22	2.943		302.23
400	11.393	11.341	35.411	27.024	112.21	1501.88	2.921		403.07
500	9.454	9.396	35.150	27.161	99.85	1496.34	2.899		503.96
600	8.140	8.077	35.006	27.257	91.28	1492.96	3.000		604.90
700	6.847	6.780	34.910	27.370	80.64	1489.57	3.355		705.89
800	5.992	5.919	34.892	27.469	71.39	1487.85	3.795		806.92
900	5.390	5.312	34.903	27.552	63.72	1487.13	4.209		908.01

**Cruise:** GULFCET 04      **Station:** 04-033  
**Date:** 22-Feb-93      **Time:** 0325      **Lat:** 26 45.98      **Long:** 94 09.90  
**Depth:** 1350 m      **Wind Dir:** 41.2 °      **Wind Speed:** 2.2 m/s      **Wave Dir:**  
**Barometer:** 29.47 in Hg      **Air Temp Dry:** 22.6 °C      **Air Temp Wet:** 20.5 °C      **Secchi Depth:**

Depth	Temp.	Pot. Temp.	Salinity	Density	SVA	Sound V	Oxy.	Fluor.	Pressure
10	22.726	22.723	36.111	24.857	308.78	1530.12	4.814		10.07
20	22.699	22.695	36.103	24.859	309.01	1530.21	4.879		20.14
30	22.700	22.694	36.102	24.858	309.45	1530.38	4.877		30.20
50	22.693	22.683	36.099	24.858	310.23	1530.70	4.788		50.34
75	22.745	22.729	36.183	24.907	306.56	1531.34	4.819		75.52
100	21.634	21.614	36.180	25.219	277.71	1528.87	4.349		100.69
125	20.039	20.015	36.493	25.892	214.49	1525.34	3.359		125.88
150	18.819	18.792	36.506	26.220	184.06	1522.36	3.202		151.06
200	16.083	16.051	36.136	26.604	148.73	1514.69	3.014		201.44
250	13.981	13.944	35.812	26.820	129.05	1508.52	3.000		251.83
300	12.653	12.612	35.604	26.931	119.24	1504.74	2.981		302.23
400	10.388	10.339	35.276	27.100	104.27	1498.19	2.908		403.07
500	8.903	8.847	35.080	27.197	95.98	1494.23	2.950		503.96
600	7.679	7.617	34.959	27.289	87.70	1491.16	3.117		604.90
700	6.484	6.419	34.897	27.408	76.50	1488.13	3.533		705.89
800	5.802	5.731	34.894	27.494	68.68	1487.10	3.916		806.92
900	5.264	5.187	34.909	27.572	61.65	1486.63	4.261		908.01

**Cruise:** GULFCET 04      **Station:** 04-036  
**Date:** 21-Feb-93      **Time:** 2008      **Lat:** 27 25.91      **Long:** 94 10.01  
**Depth:** 826 m      **Wind Dir:** 266 °      **Wind Speed:** 2.3 m/s      **Wave Dir:**  
**Barometer:** 29.50 in Hg      **Air Temp Dry:** 22.0 °C      **Air Temp Wet:** 21.0 °C      **Secchi Depth:**

Depth	Temp.	Pot. Temp.	Salinity	Density	SVA	Sound V	Oxy.	Fluor.	Pressure
10	21.241	21.239	35.957	25.158	280.09	1526.07	5.130		10.07
20	21.088	21.084	35.952	25.196	276.89	1525.82	5.075		20.14
30	20.982	20.976	35.945	25.220	274.95	1525.70	5.141		30.20
50	20.434	20.425	36.050	25.449	253.91	1524.67	4.690		50.34
75	19.963	19.949	36.264	25.737	227.39	1524.03	3.985		75.52
100	18.027	18.009	36.378	26.322	172.54	1519.09	3.077		100.69
125	17.016	16.995	36.283	26.497	156.69	1516.43	3.132		125.88
150	16.075	16.051	36.136	26.606	146.96	1513.83	3.085		151.06
200	14.166	14.137	35.841	26.802	129.33	1508.32	2.938		201.44
250	12.585	12.551	35.594	26.937	117.37	1503.67	2.913		251.83
300	11.562	11.523	35.439	27.014	110.84	1500.83	2.885		302.23
400	9.501	9.455	35.156	27.159	98.06	1494.85	2.889		403.07
500	8.087	8.034	34.996	27.258	89.40	1491.08	3.037		503.96
600	6.890	6.832	34.908	27.362	79.90	1488.06	3.348		604.90
700	6.076	6.012	34.896	27.461	70.93	1486.52	3.679		705.89
800	5.688	5.617	34.898	27.511	66.86	1486.65	3.899		806.92

**Cruise:** GULFCET 04      **Station:** 04-042  
**Date:** 21-Feb-93      **Time:** 1510      **Lat:** 27 53.95      **Long:** 94 10.01  
**Depth:** 95 m      **Wind Dir:** 192.2 °      **Wind Speed:** 14.6 m/s      **Wave Dir:** 195 °  
**Barometer:** 29.44 in Hg      **Air Temp Dry:** 22.5 °C      **Air Temp Wet:** 21.0 °C      **Secchi Depth:**

Depth	Temp.	Pot. Temp.	Salinity	Density	SVA	Sound V	Oxy.	Fluor.	Pressure
10	20.814	20.812	35.924	25.250	271.36	1524.89	5.223	.192	10.07
20	20.650	20.646	35.938	25.305	266.53	1524.62	5.229	.224	20.14
30	20.491	20.485	35.963	25.366	261.02	1524.39	5.175	.289	30.20
50	20.423	20.413	35.972	25.392	259.31	1524.55	5.200	.359	50.34
75	20.179	20.165	36.029	25.501	249.85	1524.37	5.136	.180	75.52

**Cruise:** GULFCET 04      **Station:** 05-043  
**Date:** 21-Feb-93      **Time:** 1043      **Lat:** 28 00.00      **Long:** 93 29.98  
**Depth:** 93 m      **Wind Dir:** 178.3 °      **Wind Speed:** 6.6 m/s      **Wave Dir:** 0 °  
**Barometer:** 29.53 in Hg      **Air Temp Dry:** 22.2 °C      **Air Temp Wet:** 21.2 °C      **Secchi Depth:** 2.00 m

Depth	Temp.	Pot. Temp.	Salinity	Density	SVA	Sound V	Oxy.	Fluor.	Pressure
10	20.440	20.438	36.036	25.436	253.66	1523.99	5.320	.216	10.07
20	20.426	20.422	36.034	25.438	253.78	1524.12	5.293	.242	20.14
30	20.406	20.400	36.032	25.442	253.83	1524.23	5.274	.256	30.20
50	20.202	20.193	36.019	25.487	250.27	1524.00	5.299	.198	50.34
75	20.010	19.996	36.061	25.570	243.27	1523.93	5.274	.193	75.52

**Cruise:** GULFCET 04      **Station:** 05-050  
**Date:** 20-Feb-93      **Time:** 2035      **Lat:** 26 46.04      **Long:** 93 29.98  
**Depth:** 1470 m      **Wind Dir:** 145 °      **Wind Speed:** 9.8 m/s      **Wave Dir:**  
**Barometer:** 29.55 in Hg      **Air Temp Dry:**      **Air Temp Wet:**      **Secchi Depth:**

Depth	Temp.	Pot. Temp.	Salinity	Density	SVA	Sound V	Oxy.	Fluor.	Pressure
10	21.397	21.395	35.929	25.094	286.24	1526.45	5.015		10.07
20	21.365	21.362	35.935	25.107	285.36	1526.54	5.040		20.14
30	21.032	21.026	35.972	25.227	274.31	1525.86	5.058		30.20
50	20.925	20.916	35.975	25.258	272.02	1525.92	5.014		50.34
75	20.789	20.774	36.044	25.348	264.39	1526.04	4.999		75.52
100	20.243	20.224	36.228	25.635	237.99	1525.18	4.530		100.69
125	18.351	18.329	36.407	26.263	179.06	1520.49	2.915		125.88
150	16.958	16.933	36.272	26.502	157.00	1516.66	3.074		151.06
200	14.691	14.661	35.925	26.754	134.08	1510.10	3.010		201.44
250	13.144	13.109	35.682	26.893	121.78	1505.63	2.884		251.83
300	11.692	11.653	35.459	27.005	111.80	1501.30	2.794		302.23
400	9.884	9.837	35.200	27.129	101.22	1496.29	2.831		403.07
500	8.057	8.005	34.989	27.257	89.44	1490.96	2.974		503.96
600	6.893	6.835	34.907	27.361	79.98	1488.07	3.264		604.90
700	6.051	5.988	34.888	27.458	71.13	1486.41	3.671		705.89
800	5.553	5.483	34.898	27.528	65.03	1486.10	3.962		806.92
900	5.109	5.032	34.914	27.595	59.19	1486.00	4.250		908.01

**Cruise:** GULFCET 04      **Station:** 05-053  
**Date:** 20-Feb-93      **Time:** 1340      **Lat:** 26 10.04      **Long:** 93 30.05  
**Depth:** 2000 m      **Wind Dir:** 176.4 °      **Wind Speed:** 18.1 m/s      **Wave Dir:** 170 °  
**Barometer:** 29.59 in Hg      **Air Temp Dry:** 23.0 °C      **Air Temp Wet:** 20.0 °C      **Secchi Depth:** 2.00 m

Depth	Temp.	Pot. Temp.	Salinity	Density	SVA	Sound V	Oxy.	Fluor.	Pressure
10	21.395	21.393	36.113	25.234	272.85	1526.65	4.281		10.07
20	21.285	21.281	36.124	25.273	269.57	1526.54	4.338		20.14
30	21.251	21.246	36.135	25.290	268.26	1526.63	4.287		30.20
50	21.201	21.192	36.112	25.287	269.31	1526.81	5.106		50.34
75	21.201	21.186	36.112	25.287	270.26	1527.22	5.092		75.52
100	19.683	19.665	36.433	25.941	208.96	1523.87	3.481		100.69
125	18.008	17.986	36.373	26.323	173.28	1519.45	2.992		125.88
150	16.170	16.145	36.166	26.607	146.90	1514.15	3.029		151.06
200	14.219	14.189	35.862	26.808	128.84	1508.52	2.922		201.44
250	12.404	12.370	35.574	26.957	115.38	1503.03	2.876		251.83
300	11.361	11.322	35.411	27.030	109.27	1500.10	2.795		302.23
400	9.372	9.327	35.144	27.171	96.88	1494.37	2.807		403.07
500	7.576	7.526	34.956	27.302	84.69	1489.10	3.896		503.96
800	5.207	5.139	34.908	27.579	59.72	1484.72	4.198		806.92
900	4.888	4.813	34.923	27.627	55.70	1485.12	4.426		908.01



**Cruise:** GULFCET 04      **Station:** 06-054  
**Date:** 20-Feb-93      **Time:** 0852      **Lat:** 26 13.97      **Long:** 92 49.98  
**Depth:** 2000 m      **Wind Dir:** 164.4 °      **Wind Speed:** 8.3 m/s      **Wave Dir:** 33 °  
**Barometer:** 29.71 in Hg      **Air Temp Dry:** 21.8 ° C      **Air Temp Wet:** 19.2 ° C      **Secchi Depth:**

Depth	Temp.	Pot. Temp.	Salinity	Density	SVA	Sound V	Oxy.	Fluor.	Pressure
10	21.312	21.310	36.129	25.269	269.52	1526.45	5.128		10.07
20	21.313	21.309	36.129	25.269	269.94	1526.62	5.099		20.14
30	21.305	21.299	36.128	25.270	270.16	1526.77	5.135		30.20
50	21.286	21.276	36.133	25.280	270.01	1527.06	5.102		50.34
75	21.288	21.273	36.168	25.306	268.44	1527.52	5.023		75.52
100	19.985	19.966	36.425	25.855	217.13	1524.69	3.440		100.69
125	18.022	18.001	36.380	26.325	173.14	1519.50	3.030		125.88
150	16.562	16.537	36.207	26.546	152.73	1515.39	3.119		151.06
200	14.770	14.739	35.947	26.754	134.09	1510.38	3.076		201.44
250	13.163	13.128	35.682	26.889	122.15	1505.69	3.001		251.83
300	11.741	11.702	35.470	27.004	111.88	1501.48	2.928		302.23
400	9.652	9.605	35.178	27.150	99.00	1495.43	2.820		403.07
500	8.121	8.069	34.998	27.254	89.74	1491.22	2.948		503.96
600	6.939	6.881	34.914	27.360	80.14	1488.26	3.243		604.90
700	6.107	6.043	34.887	27.450	71.98	1486.63	3.631		705.89
800	5.545	5.475	34.897	27.529	64.98	1486.07	3.949		806.92
900	5.098	5.021	34.915	27.596	59.02	1485.96	4.241		908.01

**Cruise:** GULFCET 04      **Station:** 06-055  
**Date:** 20-Feb-93      **Time:** 0245      **Lat:** 26 45.88      **Long:** 92 49.93  
**Depth:** 1745 m      **Wind Dir:** 170.1 °      **Wind Speed:** 7.9 m/s      **Wave Dir:**  
**Barometer:** 29.68 in Hg      **Air Temp Dry:** 20.9 ° C      **Air Temp Wet:** 18.0 ° C      **Secchi Depth:**

Depth	Temp.	Pot. Temp.	Salinity	Density	SVA	Sound V	Oxy.	Fluor.	Pressure
10	21.210	21.208	36.138	25.304	266.23	1526.19	4.921		10.07
20	21.213	21.209	36.137	25.303	266.70	1526.36	5.021		20.14
30	21.216	21.210	36.136	25.301	267.23	1526.54	4.956		30.20
50	21.211	21.201	36.134	25.302	267.95	1526.86	4.942		50.34
75	21.041	21.027	36.116	25.334	265.78	1526.80	4.932		75.52
100	19.205	19.187	36.438	26.069	196.70	1522.54	3.146		100.69
125	17.482	17.460	36.337	26.425	163.54	1517.87	3.004		125.88
150	16.434	16.410	36.189	26.562	151.16	1514.99	3.023		151.06
200	14.558	14.528	35.907	26.769	132.57	1509.66	2.963		201.44
250	12.790	12.755	35.614	26.912	119.83	1504.37	3.081		251.83
300	11.656	11.617	35.445	27.001	112.13	1501.16	2.981		302.23
400	9.497	9.452	35.134	27.142	99.62	1494.81	3.006		403.07
500	8.151	8.098	34.995	27.247	90.43	1491.32	2.965		503.96
600	6.915	6.857	34.906	27.357	80.37	1488.16	3.244		604.90
700	6.112	6.049	34.888	27.450	71.98	1486.65	3.624		705.89
800	5.513	5.443	34.898	27.533	64.53	1485.94	4.223		806.92
900	5.146	5.069	34.913	27.590	59.74	1486.15	4.223		908.01

**Cruise:** GULFCET 04      **Station:** 06-059  
**Date:** 19-Feb-93      **Time:** 1921      **Lat:** 27 26.01      **Long:** 92 49.97  
**Depth:** 1035 m      **Wind Dir:** 153 °      **Wind Speed:** 6.7 m/s      **Wave Dir:**  
**Barometer:** 29.76 in Hg      **Air Temp Dry:** 19.0 °C      **Air Temp Wet:** 16.0 °C      **Secchi Depth:**

Depth	Temp.	Pot. Temp.	Salinity	Density	SVA	Sound V	Oxy.	Fluor.	Pressure
10	20.549	20.547	36.138	25.484	249.05	1524.41	5.059		10.07
20	20.553	20.550	36.138	25.483	249.52	1524.59	5.085		20.14
30	20.556	20.550	36.138	25.483	249.93	1524.76	5.115		30.20
50	20.557	20.547	36.138	25.483	250.70	1525.10	5.099		50.34
75	20.438	20.424	36.163	25.534	246.77	1525.23	4.941		75.52
100	18.572	18.554	36.463	26.250	179.41	1520.76	3.166		100.69
125	17.413	17.392	36.325	26.433	162.80	1517.65	3.099		125.88
150	16.048	16.024	36.133	26.610	146.60	1513.74	3.125		151.06
200	14.325	14.295	35.861	26.785	131.07	1508.86	3.117		201.44
250	12.779	12.744	35.614	26.914	119.64	1504.34	3.113		251.83
300	11.658	11.619	35.435	26.993	112.87	1501.16	3.085		302.23
400	9.707	9.661	35.170	27.135	100.48	1495.62	2.951		403.07
500	7.879	7.827	34.966	27.265	88.48	1490.26	3.114		503.96
600	7.054	6.995	34.905	27.337	82.44	1488.69	3.295		604.90
700	6.289	6.225	34.888	27.427	74.39	1487.35	3.580		705.89
800	5.784	5.713	34.893	27.496	68.48	1487.02	3.783		806.92
900	5.287	5.209	34.908	27.568	62.02	1486.72	4.112		908.01

**Cruise:** GULFCET 04      **Station:** 06-064  
**Date:** 19-Feb-93      **Time:** 1210      **Lat:** 28 02.00      **Long:** 92 50.08  
**Depth:** 99 m      **Wind Dir:** 158 °      **Wind Speed:** 8.4 m/s      **Wave Dir:** 140 °  
**Barometer:** 30.08 in Hg      **Air Temp Dry:** 19.0 °C      **Air Temp Wet:** 14.5 °C      **Secchi Depth:** 3.00 m

Depth	Temp.	Pot. Temp.	Salinity	Density	SVA	Sound V	Oxy.	Fluor.	Pressure
10	20.475	20.473	36.142	25.507	246.89	1524.21	5.183	.257	10.07
20	20.455	20.451	36.141	25.512	246.78	1524.32	5.165	.305	20.14
30	20.348	20.342	36.137	25.538	244.73	1524.19	5.166	.356	30.20
50	20.194	20.185	36.113	25.561	243.22	1524.08	5.186	.336	50.34
75	20.110	20.096	36.117	25.587	241.71	1524.27	5.217	.271	75.52

**Cruise:** GULFCET 04      **Station:** 07-065  
**Date:** 19-Feb-93      **Time:** 0809      **Lat:** 28 02.08      **Long:** 92 09.30  
**Depth:** 103 m      **Wind Dir:** 98 °      **Wind Speed:** 4.8 m/s      **Wave Dir:** 9.0 °  
**Barometer:** 29.96 in Hg      **Air Temp Dry:** 15.5 °C      **Air Temp Wet:** 12.8 °C      **Secchi Depth:**

Depth	Temp.	Pot. Temp.	Salinity	Density	SVA	Sound V	Oxy.	Fluor.	Pressure
10	20.443	20.441	36.125	25.503	247.29	1524.10	5.105	.219	10.07
20	20.458	20.454	36.123	25.497	248.18	1524.31	5.103	.226	20.14
30	20.455	20.450	36.122	25.498	248.52	1524.47	5.124	.225	30.20
50	20.459	20.449	36.123	25.497	249.30	1524.82	5.053	.214	50.34
75	20.306	20.292	36.204	25.600	240.43	1524.91	4.626	.199	75.52
100	18.871	18.853	36.361	26.096	194.09	1521.50	2.965	.101	100.69

Cruise: GULFCET 04  
 Date: 19-Feb-93  
 Depth: 814 m  
 Barometer: 29.96 in Hg

Station: 07-071  
 Time: 0140  
 Wind Dir: 74.6 °  
 Air Temp Dry: 14.5 °C

Lat: 27 26.00  
 Wind Speed: 2.2 m/s  
 Air Temp Wet: 10.5 °C

Long: 92 10.10  
 Wave Dir:  
 Secchi Depth:

Depth	Temp.	Pot. Temp.	Salinity	Density	SVA	Sound V	Oxy.	Fluor.	Pressure
10	20.899	20.897	36.146	25.396	257.49	1525.36	4.807		10.07
20	20.914	20.910	36.145	25.391	258.33	1525.57	4.801		20.14
30	20.915	20.909	36.145	25.390	258.73	1525.74	4.789		30.20
50	20.916	20.906	36.145	25.390	259.47	1526.08	4.822		50.34
75	20.920	20.905	36.152	25.395	260.01	1526.52	4.779		75.52
100	19.272	19.254	36.501	26.100	193.81	1522.79	3.129		100.69
125	17.770	17.749	36.376	26.385	167.42	1518.76	2.987		125.88
150	16.694	16.669	36.221	26.526	154.65	1515.81	3.024		151.06
200	14.871	14.840	35.950	26.734	135.99	1510.70	3.060		201.44
250	13.327	13.292	35.701	26.870	124.03	1506.26	2.964		251.83
300	11.854	11.814	35.469	26.982	114.03	1501.87	2.990		302.23
400	9.680	9.634	35.152	27.125	101.37	1495.50	2.968		403.07
500	7.952	7.900	34.956	27.247	90.31	1490.53	3.075		503.96
600	6.689	6.632	34.884	27.371	78.78	1487.25	3.466		604.90
700	6.069	6.005	34.886	27.454	71.55	1486.48	3.675		705.89

Cruise: GULFCET 04  
 Date: 18-Feb-93  
 Depth: 1800 m  
 Barometer: 29.96 in Hg

Station: 07-073  
 Time: 1600  
 Wind Dir: 25.4 °  
 Air Temp Dry: 14.1 °C

Lat: 26 45.99  
 Wind Speed: 9.5 m/s  
 Air Temp Wet: 11.5 °C

Long: 92 10.05  
 Wave Dir: 35.0 °  
 Secchi Depth:

Depth	Temp.	Pot. Temp.	Salinity	Density	SVA	Sound V	Oxy.	Fluor.	Pressure
10	21.070	21.068	36.152	25.354	261.49	1525.83	4.930		10.07
20	21.075	21.072	36.152	25.352	262.02	1526.01	4.867		20.14
30	21.081	21.075	36.153	25.351	262.50	1526.19	4.883		30.20
50	21.092	21.082	36.152	25.347	263.59	1526.56	4.845		50.34
75	21.082	21.067	36.152	25.350	264.28	1526.95	4.854		75.52
100	19.511	19.492	36.557	26.081	195.64	1523.53	3.280		100.69
125	17.794	17.773	36.358	26.365	169.30	1518.81	2.983		125.88
150	16.150	16.125	36.143	26.593	148.14	1514.06	3.100		151.06
200	14.148	14.119	35.835	26.802	129.34	1508.26	3.036		201.44
250	12.705	12.670	35.607	26.923	118.74	1504.08	2.981		251.83
300	11.418	11.379	35.405	27.015	110.71	1500.29	2.929		302.23
400	9.591	9.545	35.165	27.151	98.91	1495.19	2.866		403.07
500	7.987	7.935	34.981	27.261	88.98	1490.69	2.962		503.96
600	6.900	6.842	34.902	27.355	80.49	1488.09	3.223		604.90
700	6.087	6.024	34.886	27.452	71.80	1486.55	3.607		705.89
800	5.559	5.489	34.897	27.527	65.18	1486.13	3.921		806.92
900	5.150	5.073	34.911	27.587	59.97	1486.17	4.160		908.01

Cruise: GULFCET 04  
 Date: 18-Feb-93  
 Depth: 2000 m  
 Barometer: 30.01 in Hg

Station: 07-075  
 Time: 1005  
 Wind Dir: 16.8 °  
 Air Temp Dry: 17.6 °C

Lat: 26 17.00  
 Wind Speed: 8.9 m/s  
 Air Temp Wet: 14.1 °C

Long: 92 10.13  
 Wave Dir: 190 °  
 Secchi Depth: 2.00 m

Depth	Temp.	Pot. Temp.	Salinity	Density	SVA	Sound V	Oxy.	Fluor.	Pressure
10	21.340	21.338	36.153	25.280	268.54	1526.55	5.008		10.07
20	21.340	21.337	36.153	25.280	268.90	1526.72	5.049		20.14
30	21.343	21.337	36.153	25.279	269.34	1526.89	5.081		30.20
50	21.346	21.336	36.153	25.278	270.15	1527.24	4.985		50.34
75	21.349	21.334	36.154	25.278	271.10	1527.67	4.956		75.52
100	20.057	20.039	36.429	25.838	218.71	1524.90	3.467		100.69
125	18.579	18.556	36.418	26.215	183.68	1521.15	2.957		125.88
150	17.406	17.381	36.310	26.423	164.54	1518.03	2.953		151.06
200	15.179	15.148	35.993	26.699	139.45	1511.72	2.885		201.44
250	13.380	13.344	35.715	26.870	124.07	1506.45	2.976		251.83
300	11.998	11.958	35.500	26.978	114.47	1502.40	2.954		302.23
400	10.016	9.968	35.209	27.113	102.79	1496.78	2.852		403.07
500	8.200	8.147	34.998	27.242	91.01	1491.51	2.942		503.96
600	6.827	6.769	34.905	27.369	79.18	1487.81	3.302		604.90
700	6.052	5.988	34.888	27.458	71.13	1486.41	3.640		705.89
800	5.518	5.448	34.896	27.531	64.70	1485.96	3.946		806.92
900	5.103	5.027	34.914	27.595	59.16	1485.98	4.229		908.01

Cruise: GULFCET 04  
 Date: 18-Feb-93  
 Depth: 2000 m  
 Barometer: 29.91 in Hg

Station: 08-076  
 Time: 0440  
 Wind Dir: 19.4 °  
 Air Temp Dry: 18.4 °C

Lat: 26 36.99  
 Wind Speed: 4.0 m/s  
 Air Temp Wet: 15.0 °C

Long: 91 29.99  
 Wave Dir:  
 Secchi Depth:

Depth	Temp.	Pot. Temp.	Salinity	Density	SVA	Sound V	Oxy.	Fluor.	Pressure
10	20.823	20.821	36.036	25.333	263.47	1525.04	4.916		10.07
20	20.822	20.818	36.035	25.332	263.91	1525.20	4.861		20.14
30	20.808	20.802	36.029	25.331	264.37	1525.32	4.883		30.20
50	20.807	20.798	36.029	25.331	265.10	1525.66	4.909		50.34
75	20.805	20.791	36.030	25.333	265.85	1526.07	4.890		75.52
100	19.299	19.281	36.494	26.087	195.01	1522.86	3.193		100.69
125	18.088	18.066	36.397	26.322	173.45	1519.71	3.016		125.88
150	16.808	16.783	36.237	26.511	156.10	1516.17	3.056		151.06
200	14.667	14.636	35.912	26.750	134.46	1510.01	3.078		201.44
250	13.170	13.135	35.674	26.881	122.88	1505.71	3.036		251.83
300	11.630	11.591	35.436	26.999	112.31	1501.06	2.981		302.23
400	9.445	9.399	35.134	27.150	98.82	1494.62	2.915		403.07
500	7.973	7.921	34.966	27.252	89.86	1490.62	3.031		503.96
600	6.953	6.895	34.905	27.351	81.01	1488.30	3.215		604.90
700	6.130	6.066	34.885	27.445	72.43	1486.72	3.544		705.89
800	5.581	5.511	34.895	27.523	65.62	1486.21	3.856		806.92
900	5.168	5.092	34.910	27.585	60.26	1486.24	4.146		908.01

**Cruise:** GULFCET 04                      **Station:** 08-080  
**Date:** 17-Feb-93                            **Time:** 1931                                      **Lat:** 27 25.83                                      **Long:** 91 30.11  
**Depth:** 950 m                                 **Wind Dir:** 24.5 °                                 **Wind Speed:** 7.7 m/s                                 **Wave Dir:**  
**Barometer:** 29.91 in Hg                      **Air Temp Dry:** 18.0 °C                             **Air Temp Wet:** 15.0 °C                                 **Secchi Depth:**

Depth	Temp.	Pot. Temp.	Salinity	Density	SVA	Sound V	Oxy.	Fluor.	Pressure
10	20.622	20.620	35.544	25.012	293.96	1523.94	5.127		10.07
20	20.664	20.660	35.569	25.020	293.61	1524.25	5.104		20.14
30	20.765	20.760	35.953	25.285	268.74	1525.12	4.741		30.20
50	20.837	20.827	36.036	25.329	265.30	1525.74	4.622		50.34
75	19.512	19.499	35.817	25.515	248.47	1522.28	4.372		75.52
100	19.394	19.376	36.470	26.044	199.10	1523.10	3.502		100.69
125	18.148	18.126	36.404	26.312	174.37	1519.89	3.042		125.88
150	16.429	16.405	36.181	26.558	151.59	1514.96	3.097		151.06
200	14.318	14.288	35.858	26.783	131.19	1508.83	3.050		201.44
250	12.720	12.685	35.606	26.920	119.04	1504.13	2.978		251.83
300	11.342	11.304	35.393	27.019	110.23	1500.01	2.931		302.23
400	9.624	9.578	35.148	27.132	100.70	1495.29	2.975		403.07
500	7.961	7.909	34.957	27.246	90.37	1490.56	3.047		503.96
600	6.721	6.664	34.888	27.369	78.95	1487.38	3.348		604.90
700	5.919	5.857	34.886	27.473	69.49	1485.89	3.715		705.89
800	5.515	5.445	34.898	27.533	64.51	1485.95	3.918		806.92
900	5.127	5.050	34.912	27.591	59.57	1486.07	4.148		908.01

**Cruise:** GULFCET 04                      **Station:** 08-086  
**Date:** 17-Feb-93                            **Time:** 1225                                      **Lat:** 28 07.62                                      **Long:** 91 30.11  
**Depth:** 98 m                                 **Wind Dir:** 31.3 °                                 **Wind Speed:** 7.2 m/s                                 **Wave Dir:** 50.0 °  
**Barometer:** 29.95 in Hg                      **Air Temp Dry:** 16.5 °C                             **Air Temp Wet:** 13.5 °C                                 **Secchi Depth:** 4.00 m

Depth	Temp.	Pot. Temp.	Salinity	Density	SVA	Sound V	Oxy.	Fluor.	Pressure
10	20.253	20.251	35.466	25.051	290.24	1522.85	5.111	.155	10.07
20	20.366	20.362	35.676	25.181	278.25	1523.56	5.027	.227	20.14
30	20.370	20.364	35.686	25.188	277.94	1523.75	5.011	.300	30.20
50	20.453	20.444	35.865	25.302	267.84	1524.51	5.030	.365	50.34
75	20.547	20.533	36.088	25.447	255.01	1525.44	4.950	.291	75.52

**Cruise:** GULFCET 04                      **Station:** 09-087  
**Date:** 17-Feb-93                            **Time:** 0818                                      **Lat:** 28 09.02                                      **Long:** 90 50.26  
**Depth:** 109 m                                 **Wind Dir:** 36.1 °                                 **Wind Speed:** 11.0 m/s                                 **Wave Dir:** 18.0 °  
**Barometer:** 30.50 in Hg                      **Air Temp Dry:** 13.0 °C                             **Air Temp Wet:** 11.0 °C                                 **Secchi Depth:**

Depth	Temp.	Pot. Temp.	Salinity	Density	SVA	Sound V	Oxy.	Fluor.	Pressure
10	19.192	19.190	32.379	22.972	488.49	1516.42	5.970	4.494	10.07
20	20.923	20.920	35.358	24.789	315.61	1524.72	5.197	1.813	20.14
30	20.674	20.669	35.617	25.054	290.75	1524.50	4.729	1.068	30.20
50	20.965	20.955	36.091	25.335	264.71	1526.15	4.638	.193	50.34
75	20.319	20.305	36.394	25.742	227.00	1525.16	3.719	.147	75.52

Cruise: GULFCET 04  
 Date: 16-Feb-93  
 Depth: 2000 m  
 Barometer: 29.69 in Hg

Station: 09-096  
 Time: 1544  
 Wind Dir: 36.8 °  
 Air Temp Dry: 20.5 °C

Lat: 26 44.98  
 Wind Speed: 6.8 m/s  
 Air Temp Wet: 19.9 °C

Long: 90 50.02  
 Wave Dir: 90 °  
 Secchi Depth: 2.00 m

Depth	Temp.	Pot. Temp.	Salinity	Density	SVA	Sound V	Oxy.	Fluor.	Pressure
10	20.755	20.753	36.069	25.376	259.33	1524.89	5.030		10.07
20	20.746	20.742	36.069	25.379	259.47	1525.03	5.005		20.14
30	20.741	20.736	36.069	25.380	259.72	1525.19	5.016		30.20
50	20.697	20.687	36.070	25.392	259.28	1525.40	4.973		50.34
75	20.464	20.450	36.467	25.758	225.43	1525.63	3.544		75.52
100	18.956	18.938	36.458	26.149	189.11	1521.85	3.155		100.69
125	17.352	17.331	36.317	26.442	161.96	1517.46	3.058		125.88
150	16.171	16.147	36.145	26.590	148.46	1514.13	3.125		151.06
200	14.270	14.240	35.852	26.789	130.62	1508.67	3.046		201.44
250	12.401	12.367	35.552	26.941	116.95	1502.99	2.987		251.83
300	11.401	11.362	35.403	27.016	110.57	1500.23	2.990		302.23
400	9.177	9.132	35.091	27.161	97.62	1493.59	2.978		403.07
500	7.805	7.753	34.951	27.265	88.42	1489.96	3.072		503.96
600	6.625	6.568	34.883	27.379	77.96	1487.00	3.390		604.90
700	5.860	5.798	34.888	27.482	68.56	1485.65	3.804		705.89
800	5.364	5.295	34.903	27.555	62.18	1485.35	4.046		806.92
900	5.025	4.949	34.917	27.607	57.93	1485.67	4.307		908.01

Cruise: GULFCET 04  
 Date: 16-Feb-93  
 Depth: 2000 m  
 Barometer: 29.72 in Hg

Station: 10-097  
 Time: 0956  
 Wind Dir: 250 °  
 Air Temp Dry: 22.0 °C

Lat: 27 09.75  
 Wind Speed: 1.2 m/s  
 Air Temp Wet: 21.0 °C

Long: 90 09.99  
 Wave Dir: 270 °  
 Secchi Depth: 2.00 m

Depth	Temp.	Pot. Temp.	Salinity	Density	SVA	Sound V	Oxy.	Fluor.	Pressure
10	22.069	22.067	36.323	25.206	275.59	1528.65	4.831		10.07
20	22.028	22.024	36.319	25.214	275.17	1528.71	4.816		20.14
30	21.550	21.544	36.258	25.301	267.24	1527.56	4.910		30.20
50	21.313	21.303	36.232	25.348	263.55	1527.24	4.878		50.34
75	19.067	19.054	36.477	26.135	189.56	1521.77	3.292		75.52
100	17.980	17.962	36.434	26.377	167.34	1519.02	3.572		100.69
125	15.979	15.959	36.131	26.624	144.42	1513.11	3.430		125.88
150	15.077	15.054	35.980	26.711	136.72	1510.55	3.407		151.06
200	13.376	13.347	35.707	26.864	123.19	1505.59	3.256		201.44
250	12.086	12.053	35.513	26.972	113.88	1501.88	2.933		251.83
300	10.846	10.809	35.312	27.047	107.31	1498.19	3.015		302.23
400	9.080	9.035	35.100	27.184	95.39	1493.24	2.835		403.07
500	7.707	7.656	34.943	27.273	87.55	1489.58	3.076		503.96
600	6.616	6.560	34.884	27.380	77.83	1486.96	3.352		604.90
700	5.909	5.846	34.886	27.475	69.36	1485.84	3.650		705.89
800	5.466	5.397	34.898	27.539	63.86	1485.76	3.944		806.92
900	5.032	4.956	34.917	27.606	57.97	1485.70	4.213		908.01

**Cruise:** GULFCET 04      **Station:** 10-100  
**Date:** 16-Feb-93      **Time:** 0310      **Lat:** 27 45.90      **Long:** 90 09.97  
**Depth:** 800 m      **Wind Dir:** 168 °      **Wind Speed:** 10.0 m/s      **Wave Dir:**  
**Barometer:** 29.51 in Hg      **Air Temp Dry:** 22.0 °C      **Air Temp Wet:** 21.9 °C      **Secchi Depth:**

Depth	Temp.	Pot. Temp.	Salinity	Density	SVA	Sound V	Oxy.	Fluor.	Pressure
10	20.836	20.834					5.122		10.07
20	20.827	20.824					5.279		20.14
30	20.793	20.787					4.322		30.20
50	20.784	20.774	36.114	25.403	258.28	1525.69	4.886		50.34
75	20.370	20.356	36.336	25.684	232.47	1525.23	4.767		75.52
100	18.215	18.197	36.411	26.300	174.63	1519.68	4.233		100.69
125	16.439	16.418	36.181	26.556	150.99	1514.57	3.420		125.88
150	14.461	14.438	35.874	26.765	131.50	1508.47	3.384		151.06
200	11.638	11.612	35.445	27.004	109.34	1499.44	3.266		201.44
250	9.757	9.728	35.171	27.127	98.06	1493.30	3.134		251.83
300	9.070	9.037	35.081	27.171	94.60	1491.52	3.149		302.23
400	7.710	7.670	34.943	27.273	85.89	1487.93	3.295		403.07
500	6.833	6.785	34.891	27.356	78.83	1486.15	3.472		503.96
600	6.254	6.199	34.883	27.428	72.86	1485.54	3.680		604.90

**Cruise:** GULFCET 04      **Station:** 10-105  
**Date:** 15-Feb-93      **Time:** 1908      **Lat:** 28 15.87      **Long:** 90 10.01  
**Depth:** 94 m      **Wind Dir:**      **Wind Speed:**  
**Barometer:**      **Air Temp Dry:** 22.5 °C      **Air Temp Wet:** 20.9 °C      **Secchi Depth:**

Depth	Temp.	Pot. Temp.	Salinity	Density	SVA	Sound V	Oxy.	Fluor.	Pressure
10	22.386	22.384	36.294	25.094	286.26	1529.45	4.754	.188	10.07
20	22.386	22.382	36.294	25.094	286.60	1529.62	4.774	.209	20.14
30	22.389	22.383	36.294	25.093	287.07	1529.79	4.711	.202	30.20
50	22.322	22.312	36.300	25.117	285.58	1529.96	4.736	.233	50.34
75	19.689	19.675	36.492	25.984	203.92	1523.53	3.271	.172	75.52

**Cruise:** GULFCET 04      **Station:** 11-106  
**Date:** 15-Feb-93      **Time:** 1230      **Lat:** 28 45.03      **Long:** 89 29.99  
**Depth:** 95 m      **Wind Dir:** 150 °      **Wind Speed:** 30.6 m/s      **Wave Dir:** 32.0 °  
**Barometer:** 29.69 in Hg      **Air Temp Dry:** 22.0 °C      **Air Temp Wet:** 18.0 °C      **Secchi Depth:**

Depth	Temp.	Pot. Temp.	Salinity	Density	SVA	Sound V	Oxy.	Fluor.	Pressure
10	17.888	17.886	29.040	20.741	702.11	1508.85	6.754	4.020	10.07
20	21.407	21.403	35.665	24.890	306.02	1526.36	5.038	.465	20.14
30	21.527	21.521	35.940	25.066	289.64	1527.15	4.832	.225	30.20
50	21.850	21.840	36.227	25.194	278.19	1528.65	4.850	.171	50.34
75	21.166	21.151	36.304	25.443	255.47	1527.35	4.284	.100	75.52

**Cruise:** GULFCET 04      **Station:** 11-112      **Lat:** 28 06.13      **Long:** 89 30.08  
**Date:** 15-Feb-93      **Time:** 0552      **Wind Dir:** 147.8 °      **Wind Speed:** 13.0 m/s      **Wave Dir:**  
**Depth:** 1075 m      **Air Temp Dry:** 21.3 °C      **Air Temp Wet:** 18.20 °C      **Secchi Depth:**  
**Barometer:** 29.70 in Hg

Depth	Temp.	Pot. Temp.	Salinity	Density	SVA	Sound V	Oxy.	Fluor.	Pressure
10	22.199	22.197	36.277	25.134	282.39	1528.94	4.841		10.07
20	22.205	22.201	36.278	25.132	282.94	1529.13	4.843		20.14
30	22.208	22.202	36.277	25.131	283.45	1529.30	4.804		30.20
50	22.059	22.049	36.327	25.211	276.60	1529.31	4.828		50.34
75	22.024	22.009	36.327	25.221	276.58	1529.64	4.763		75.52
100	20.704	20.685	36.576	25.776	224.70	1526.83	3.506		100.69
125	18.921	18.898	36.538	26.219	183.35	1522.26	3.193		125.88
150	17.818	17.792	36.397	26.389	167.88	1519.35	3.231		151.06
200	15.798	15.766	36.091	26.634	145.76	1513.76	3.276		201.44
250	14.122	14.085	35.826	26.801	130.91	1509.00	3.177		251.83
300	12.860	12.819	35.619	26.902	122.17	1505.45	3.252		302.23
400	10.503	10.454	35.270	27.076	106.68	1498.59	2.936		403.07
500	8.742	8.687	35.039	27.191	96.38	1493.59	2.941		503.96
600	7.663	7.602	34.946	27.282	88.36	1491.08	2.935		604.90
700	6.522	6.456	34.884	27.393	77.93	1488.26	3.315		705.89
800	5.944	5.871	34.885	27.470	71.23	1487.65	3.510		806.92
900	5.500	5.421	34.898	27.535	65.59	1487.56	3.833		908.01

**Cruise:** GULFCET 04      **Station:** 11-115      **Lat:** 27 27.11      **Long:** 89 30.16  
**Date:** 14-Feb-93      **Time:** 2200      **Wind Dir:** 121.5      **Wind Speed:** 16.5 m/s      **Wave Dir:**  
**Depth:** 2000 m      **Air Temp Dry:** 20.8 °C      **Air Temp Wet:** 17.0 °C      **Secchi Depth:**  
**Barometer:** 29.81 in Hg

Depth	Temp.	Pot. Temp.	Salinity	Density	SVA	Sound V	Oxy.	Fluor.	Pressure
10	22.366	22.364	36.202	25.029	292.35	1529.29	4.757		10.07
20	22.372	22.368	36.201	25.027	292.96	1529.48	4.703		20.14
30	22.348	22.342	36.206	25.037	292.40	1529.59	4.776		30.20
50	21.658	21.648	36.298	25.302	267.97	1528.22	4.580		50.34
75	19.617	19.603	36.549	26.046	198.00	1523.39	3.466		75.52
100	18.474	18.456	36.499	26.303	174.43	1520.52	3.541		100.69
125	17.020	16.999	36.288	26.499	156.42	1516.44	3.507		125.88
150	16.003	15.979	36.131	26.618	145.77	1513.60	3.257		151.06
200	14.245	14.215	35.851	26.794	130.18	1508.59	3.097		201.44
250	12.689	12.655	35.606	26.926	118.49	1504.03	3.034		251.83
300	11.451	11.413	35.402	27.006	111.57	1500.40	3.138		302.23
400	9.792	9.746	35.160	27.113	102.63	1495.91	2.984		403.07
500	8.397	8.343	35.018	27.228	92.54	1492.28	2.947		503.96
600	7.284	7.224	34.919	27.315	84.78	1489.60	3.070		604.90
700	6.343	6.278	34.882	27.415	75.63	1487.56	3.432		705.89
800	5.730	5.659	34.891	27.501	67.92	1486.81	3.742		806.92
900	5.254	5.177	34.908	27.573	61.56	1486.59	4.064		908.01



**Cruise:** GULFCET 04      **Station:** 12-116  
**Date:** 14-Feb-93      **Time:** 1749      **Lat:** 27 25.99      **Long:** 88 50.10  
**Depth:** 2000 m      **Wind Dir:** 92.6 °      **Wind Speed:** 6.3 m/s      **Wave Dir:**  
**Barometer:** 29.80 in Hg      **Air Temp Dry:** 20.0 °C      **Air Temp Wet:** 16.0 °C      **Secchi Depth:**

Depth	Temp.	Pot. Temp.	Salinity	Density	SVA	Sound V	Oxy.	Fluor.	Pressure
10	22.411	22.409	36.248	25.051	290.28	1529.46	4.743		10.07
20	21.847	21.843	36.259	25.219	274.67	1528.17	4.846		20.14
30	21.719	21.713	36.254	25.251	272.01	1528.00	4.894		30.20
50	21.724	21.714	36.278	25.268	271.16	1528.38	4.804		50.34
75	20.973	20.959	36.094	25.336	265.63	1526.60	4.884		75.52
100	20.482	20.463	36.572	25.833	219.23	1526.22	3.754		100.69
125	18.645	18.622	36.490	26.252	180.12	1521.42	3.464		125.88
150	17.699	17.673	36.419	26.435	163.50	1519.02	3.699		151.06
200	15.809	15.777	36.090	26.631	146.07	1513.79	3.127		201.44
250	14.127	14.090	35.829	26.802	130.80	1509.02	3.205		251.83
300	12.814	12.772	35.610	26.904	121.91	1505.28	3.106		302.23
400	10.564	10.515	35.286	27.078	106.55	1498.82	2.944		403.07
500	8.926	8.870	35.063	27.180	97.61	1494.30	2.959		503.96
600	7.664	7.602	34.935	27.273	89.18	1491.07	3.117		604.90
700	6.632	6.566	34.881	27.376	79.70	1488.69	3.374		705.89
800	5.927	5.855	34.886	27.472	70.99	1487.58	3.662		806.92
900	5.423	5.345	34.901	27.546	64.36	1487.26	3.993		908.01

**Cruise:** GULFCET 04      **Station:** 12-117  
**Date:** 14-Feb-93      **Time:** 1328      **Lat:** 27 46.01      **Long:** 88 49.99  
**Depth:** 1575 m      **Wind Dir:** 57.6 °      **Wind Speed:** 3.8 m/s      **Wave Dir:**  
**Barometer:** 29.81 in Hg      **Air Temp Dry:** 20.0 °C      **Air Temp Wet:** 16.0 °C      **Secchi Depth:** 24.0 m

Depth	Temp.	Pot. Temp.	Salinity	Density	SVA	Sound V	Oxy.	Fluor.	Pressure
10	22.035	22.033	36.391	25.267	269.80	1528.64	5.032		10.07
20	22.000	21.996	36.390	25.276	269.28	1528.72	5.010		20.14
30	21.989	21.983	36.390	25.279	269.37	1528.86	4.978		30.20
50	21.985	21.975	36.391	25.281	269.98	1529.18	4.925		50.34
75	21.987	21.972	36.391	25.280	270.97	1529.61	4.952		75.52
100	21.990	21.970	36.392	25.281	271.90	1530.04	4.973		100.69
125	20.619	20.595	36.575	25.799	223.44	1527.01	3.799		125.88
150	19.273	19.246	36.567	26.150	190.82	1523.71	3.393		151.06
200	16.969	16.936	36.288	26.511	157.73	1517.55	3.372		201.44
250	15.411	15.372	36.033	26.678	143.03	1513.33	3.323		251.83
300	14.043	13.999	35.817	26.810	131.42	1509.57	3.278		302.23
400	11.514	11.462	35.415	27.004	114.18	1502.30	3.118		403.07
500	9.672	9.614	35.158	27.131	102.89	1497.14	3.021		503.96
600	8.258	8.194	34.986	27.224	94.54	1493.38	3.011		604.90
700	7.047	6.978	34.897	27.331	84.50	1490.32	3.231		705.89
800	6.232	6.158	34.880	27.428	75.59	1488.79	3.574		806.92
900	5.588	5.508	34.895	27.522	66.95	1487.91	3.897		908.01

**Cruise:** GULFCET 04      **Station:** 12-119  
**Date:** 14-Feb-93      **Time:** 0608      **Lat:** 28 26.00      **Long:** 88 50.00  
**Depth:** 1300 m      **Wind Dir:** 350.8 °      **Wind Speed:** 3.8 m/s      **Wave Dir:** 14.0 °  
**Barometer:** 29.80 in Hg      **Air Temp Dry:** 18.0 °C      **Air Temp Wet:** 14.0 °C      **Secchi Depth:**

Depth	Temp.	Pot. Temp.	Salinity	Density	SVA	Sound V	Oxy.	Fluor.	Pressure
10	21.959	21.956	36.392	25.289	267.61	1528.44	4.571		10.07
20	21.964	21.960	36.393	25.288	268.12	1528.63	4.613		20.14
30	21.977	21.971	36.391	25.284	268.93	1528.83	4.655		30.20
50	21.979	21.969	36.392	25.283	269.73	1529.17	4.643		50.34
75	21.987	21.972	36.392	25.281	270.89	1529.61	4.596		75.52
100	21.992	21.972	36.393	25.280	271.92	1530.05	4.578		100.69
125	20.552	20.528	36.639	25.866	217.10	1526.90	3.476		125.88
150	19.218	19.190	36.557	26.157	190.15	1523.54	3.135		151.06
200	16.918	16.885	36.272	26.511	157.73	1517.37	3.255		201.44
250	15.294	15.255	36.012	26.688	142.08	1512.94	3.081		251.83
300	13.893	13.849	35.785	26.817	130.64	1509.04	2.995		302.23
400	11.173	11.122	35.368	27.031	111.41	1501.06	2.876		403.07
500	9.346	9.289	35.115	27.152	100.61	1495.90	2.786		503.96
600	7.815	7.753	34.944	27.258	90.83	1491.66	2.982		604.90
700	6.840	6.773	34.890	27.354	82.06	1489.51	3.212		705.89
800	6.033	5.960	34.885	27.458	72.49	1488.01	3.562		806.92
900	5.471	5.392	34.899	27.539	65.10	1487.45	3.936		908.01

**Cruise:** GULFCET 04      **Station:** 12-125  
**Date:** 13-Feb-93      **Time:** 2305      **Lat:** 29 06.48      **Long:** 88 50.00  
**Depth:** 95 m      **Wind Dir:** 254.4 °      **Wind Speed:** 11.0 m/s      **Wave Dir:**  
**Barometer:** 29.81 in Hg      **Air Temp Dry:** 14.1 °C      **Air Temp Wet:** 12.8 °C      **Secchi Depth:**

Depth	Temp.	Pot. Temp.	Salinity	Density	SVA	Sound V	Oxy.	Fluor.	Pressure
10	22.069	22.067	36.292	25.182	277.84	1528.62	4.719	.497	10.07
20	22.089	22.085	36.289	25.174	278.98	1528.84	4.612	.207	20.14
30	22.030	22.024	36.278	25.182	278.56	1528.84	4.614	.195	30.20
50	19.208	19.199	35.879	25.640	235.60	1521.07	4.379	.138	50.34
75	18.466	18.453	36.424	26.247	178.86	1520.00	3.305	.102	75.52

**Cruise:** GULFCET 04      **Station:** 13-126  
**Date:** 13-Feb-93      **Time:** 1829      **Lat:** 29 16.56      **Long:** 88 10.06  
**Depth:** 95 m      **Wind Dir:** 291.9 °      **Wind Speed:** 4.6 m/s      **Wave Dir:**  
**Barometer:** 29.76 in Hg      **Air Temp Dry:** 15.5 °C      **Air Temp Wet:** 12.2 °C      **Secchi Depth:**

Depth	Temp.	Pot. Temp.	Salinity	Density	SVA	Sound V	Oxy.	Fluor.	Pressure
10	18.931	18.929	34.051	24.315	360.37	1517.56	5.631	1.577	10.07
20	19.804	19.801	35.262	25.014	294.10	1521.55	4.956	.520	20.14
30	20.250	20.244	35.721	25.247	272.35	1523.46	4.606	.213	30.20
50	20.343	20.334	36.138	25.540	245.25	1524.52	4.325	.168	50.34
75	19.917	19.903	36.544	25.963	205.93	1524.22	3.296	.112	75.52

**Cruise:** GULFCET 04      **Station:** 13-133  
**Date:** 13-Feb-93      **Time:** 1227      **Lat:** 28 46.20      **Long:** 88 10.00  
**Depth:** 1850 m      **Wind Dir:** 336.9 °      **Wind Speed:** 5.4 m/s      **Wave Dir:** 34.0 °  
**Barometer:** 30.09 in Hg      **Air Temp Dry:** 13.5 °C      **Air Temp Wet:** 12.2 °C      **Secchi Depth:** 6.00 m

Depth	Temp.	Pot. Temp.	Salinity	Density	SVA	Sound V	Oxy.	Fluor.	Pressure
10	21.908	21.906	36.254	25.199	276.25	1528.16	5.250		10.07
20	21.967	21.963	36.286	25.206	275.94	1528.52	4.911		20.14
30	21.977	21.971	36.284	25.202	276.70	1528.71	4.857		30.20
50	21.990	21.980	36.311	25.219	275.88	1529.11	4.767		50.34
75	22.003	21.988	36.397	25.280	270.96	1529.66	4.685		75.52
100	21.982	21.962	36.399	25.288	271.22	1530.03	4.647		100.69
125	19.505	19.482	36.523	26.056	198.92	1523.89	3.393		125.88
150	18.015	17.989	36.422	26.359	170.79	1519.95	3.213		151.06
200	15.728	15.697	36.090	26.650	144.25	1513.54	3.061		201.44
250	14.126	14.089	35.826	26.800	130.99	1509.01	2.995		251.83
300	12.606	12.565	35.585	26.926	119.71	1504.56	2.987		302.23
400	10.607	10.557	35.286	27.070	107.32	1498.98	2.878		403.07
500	8.963	8.908	35.070	27.179	97.71	1494.44	2.868		503.96
600	7.658	7.596	34.944	27.281	88.46	1491.06	3.012		604.90
700	6.596	6.529	34.881	27.381	79.19	1488.55	3.320		705.89
800	5.799	5.728	34.887	27.489	69.18	1487.08	3.737		806.92
900	5.342	5.264	34.904	27.559	63.00	1486.94	4.015		908.01

**Cruise:** GULFCET 04      **Station:** 13-134  
**Date:** 13-Feb-93      **Time:** 0916      **Lat:** 28 36.90      **Long:** 88 10.00  
**Depth:** 2000 m      **Wind Dir:** 332.7 °      **Wind Speed:** 9.9 m/s      **Wave Dir:** 17.0 °  
**Barometer:** 29.80 in Hg      **Air Temp Dry:** 14.9 °C      **Air Temp Wet:** 12.5 °C      **Secchi Depth:** 20.0 m

Depth	Temp.	Pot. Temp.	Salinity	Density	SVA	Sound V	Oxy.	Fluor.	Pressure
10	19.614	19.612	33.966	24.075	383.20	1519.40	5.781		10.07
20	21.828	21.824	36.271	25.234	273.26	1528.14	5.105		20.14
30	21.988	21.982	36.370	25.264	270.77	1528.83	5.011		30.20
50	22.003	21.993	36.374	25.263	271.65	1529.21	4.736		50.34
75	22.001	21.986	36.379	25.267	272.21	1529.64	4.681		75.52
100	21.994	21.974	36.392	25.279	272.08	1530.05	4.650		100.69
125	20.420	20.397	36.593	25.866	217.05	1526.50	3.453		125.88
150	18.963	18.935	36.540	26.209	185.13	1522.80	3.241		151.06
200	16.527	16.494	36.215	26.561	152.91	1516.13	3.279		201.44
250	14.782	14.744	35.938	26.744	136.51	1511.24	3.013		251.83
300	13.204	13.162	35.678	26.877	124.65	1506.66	3.108		302.23
400	10.841	10.791	35.313	27.049	109.48	1499.83	2.914		403.07
500	9.136	9.080	35.087	27.164	99.25	1495.10	2.870		503.96
600	7.846	7.784	34.952	27.260	90.69	1491.79	2.951		604.90
700	6.722	6.655	34.884	27.366	80.76	1489.04	3.233		705.89
800	5.966	5.893	34.885	27.467	71.54	1487.74	3.584		806.92
900	5.494	5.415	34.897	27.535	65.57	1487.54	3.876		908.01

**Cruise:** GULFCET 04      **Station:** 14-135  
**Date:** 13-Feb-93      **Time:** 0310      **Lat:** 28 30.92      **Long:** 87 29.94  
**Depth:** 2000 m      **Wind Dir:** 323.7 °      **Wind Speed:** 9.3 m/s      **Wave Dir:**  
**Barometer:** 30.03 in Hg      **Air Temp Dry:** 16.5 °C      **Air Temp Wet:** 13.5 °C      **Secchi Depth:**

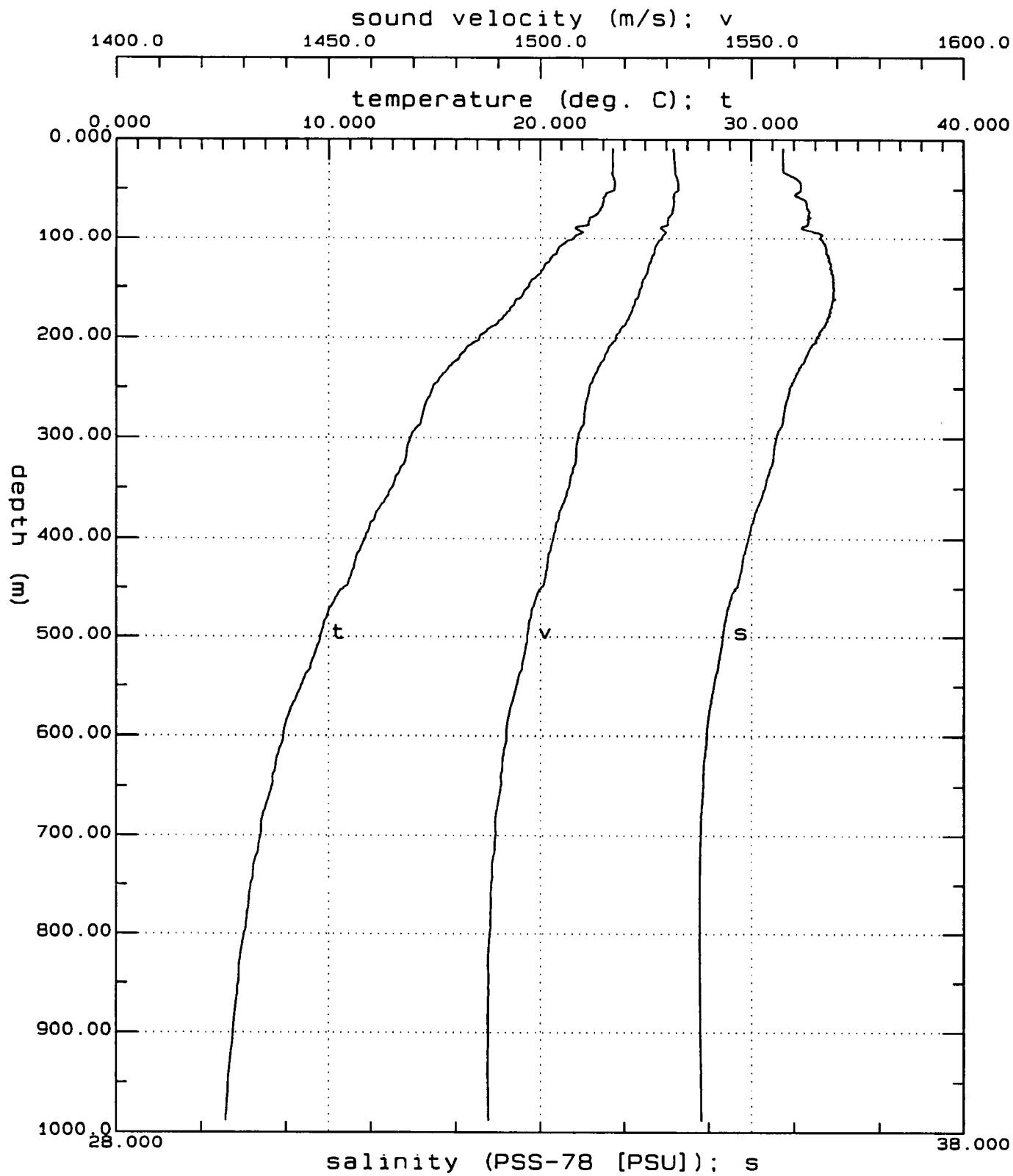
Depth	Temp.	Pot. Temp.	Salinity	Density	SVA	Sound V	Oxy.	Fluor.	Pressure
10	20.447	20.445	35.859	25.299	266.67	1523.82	4.918		10.07
20	20.460	20.456	35.861	25.297	267.25	1524.02	4.928		20.14
30	20.466	20.461	35.860	25.294	267.85	1524.21	4.901		30.20
50	20.368	20.358	35.985	25.417	256.96	1524.41	4.826		50.34
75	20.414	20.400	36.167	25.543	245.91	1525.16	4.768		75.52
100	19.239	19.221	36.058	25.769	225.13	1522.20	4.771		100.69
125	18.572	18.550	36.480	26.264	179.03	1521.20	3.389		125.88
150	17.044	17.019	36.280	26.488	158.35	1516.93	3.142		151.06
200	15.050	15.019	35.972	26.711	138.24	1511.29	3.011		201.44
250	13.589	13.553	35.742	26.848	126.22	1507.17	2.992		251.83
300	12.107	12.067	35.504	26.960	116.23	1502.78	2.934		302.23
400	10.004	9.957	35.201	27.109	103.17	1496.73	2.866		403.07
500	8.187	8.134	34.984	27.233	91.81	1491.45	2.873		503.96
600	7.096	7.037	34.897	27.324	83.67	1488.84	3.060		604.90
700	6.195	6.131	34.879	27.432	73.76	1486.97	3.403		705.89
800	5.650	5.580	34.893	27.512	66.73	1486.49	3.662		806.92
900	5.211	5.134	34.909	27.579	60.93	1486.41	3.934		908.01

**Cruise:** GULFCET 04      **Station:** 14-136  
**Date:** 12-Feb-93      **Time:** 2323      **Lat:** 28 45.95      **Long:** 87 29.92  
**Depth:** 1600 m      **Wind Dir:** 316.5 °      **Wind Speed:** 10 m/s      **Wave Dir:**  
**Barometer:**      **Air Temp Dry:** 16.2 °C      **Air Temp Wet:** 14.5 °C      **Secchi Depth:**

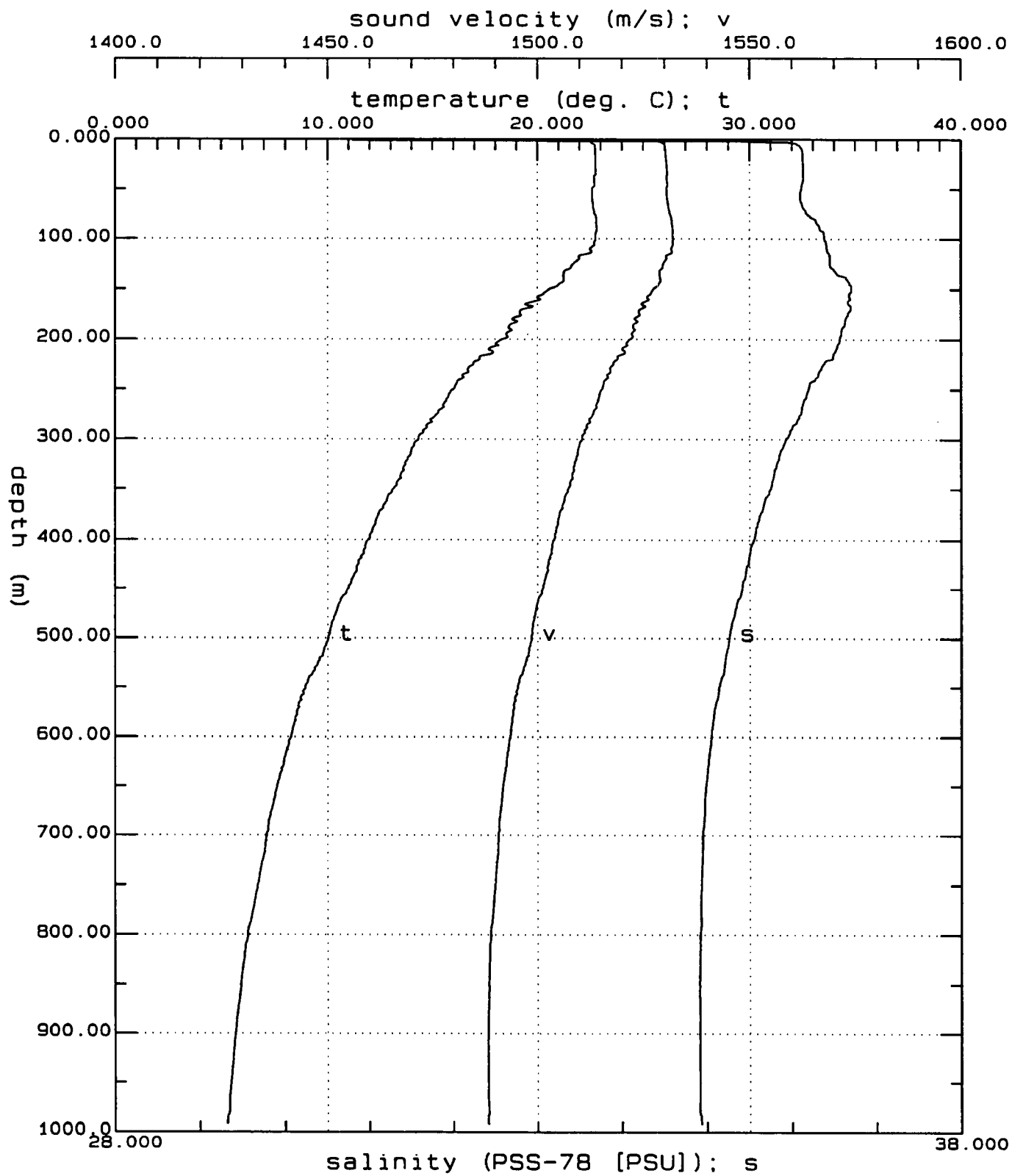
Depth	Temp.	Pot. Temp.	Salinity	Density	SVA	Sound V	Oxy.	Fluor.	Pressure
10	20.436	20.434	36.215	25.574	240.57	1524.18	4.837		10.07
20	20.452	20.448	36.215	25.569	241.34	1524.40	4.826		20.14
30	20.445	20.439	36.216	25.572	241.44	1524.55	4.791		30.20
50	20.461	20.452	36.215	25.567	242.68	1524.93	4.821		50.34
75	19.937	19.923	36.156	25.662	234.50	1523.84	4.708		75.52
100	19.403	19.385	36.497	26.063	197.33	1523.16	3.198		100.69
125	18.041	18.019	36.399	26.335	172.21	1519.58	3.003		125.88
150	16.505	16.481	36.200	26.554	151.97	1515.21	3.057		151.06
200	14.627	14.597	35.905	26.753	134.16	1509.87	3.066		201.44
250	13.133	13.098	35.678	26.892	121.84	1505.59	2.963		251.83
300	11.669	11.630	35.447	27.000	112.23	1501.21	2.932		302.23
400	9.872	9.825	35.180	27.115	102.49	1496.22	2.852		403.07
500	8.367	8.313	34.993	27.213	93.89	1492.13	2.885		503.96
600	7.031	6.973	34.888	27.327	83.39	1488.58	3.123		604.90
700	6.238	6.174	34.881	27.428	74.23	1487.14	3.389		705.89
800	5.686	5.615	34.891	27.506	67.32	1486.63	3.634		806.92
900	5.266	5.189	34.906	27.570	61.85	1486.63	3.906		908.01

**Cruise:** GULFCET 04      **Station:** 14-143  
**Date:** 12-Feb-93      **Time:** 1530      **Lat:** 29 27.00      **Long:** 87 30.00  
**Depth:** 82 m      **Wind Dir:**      **Wind Speed:**      **Wave Dir:**  
**Barometer:**      **Air Temp Dry:**      **Air Temp Wet:**      **Secchi Depth:** 25.0 m

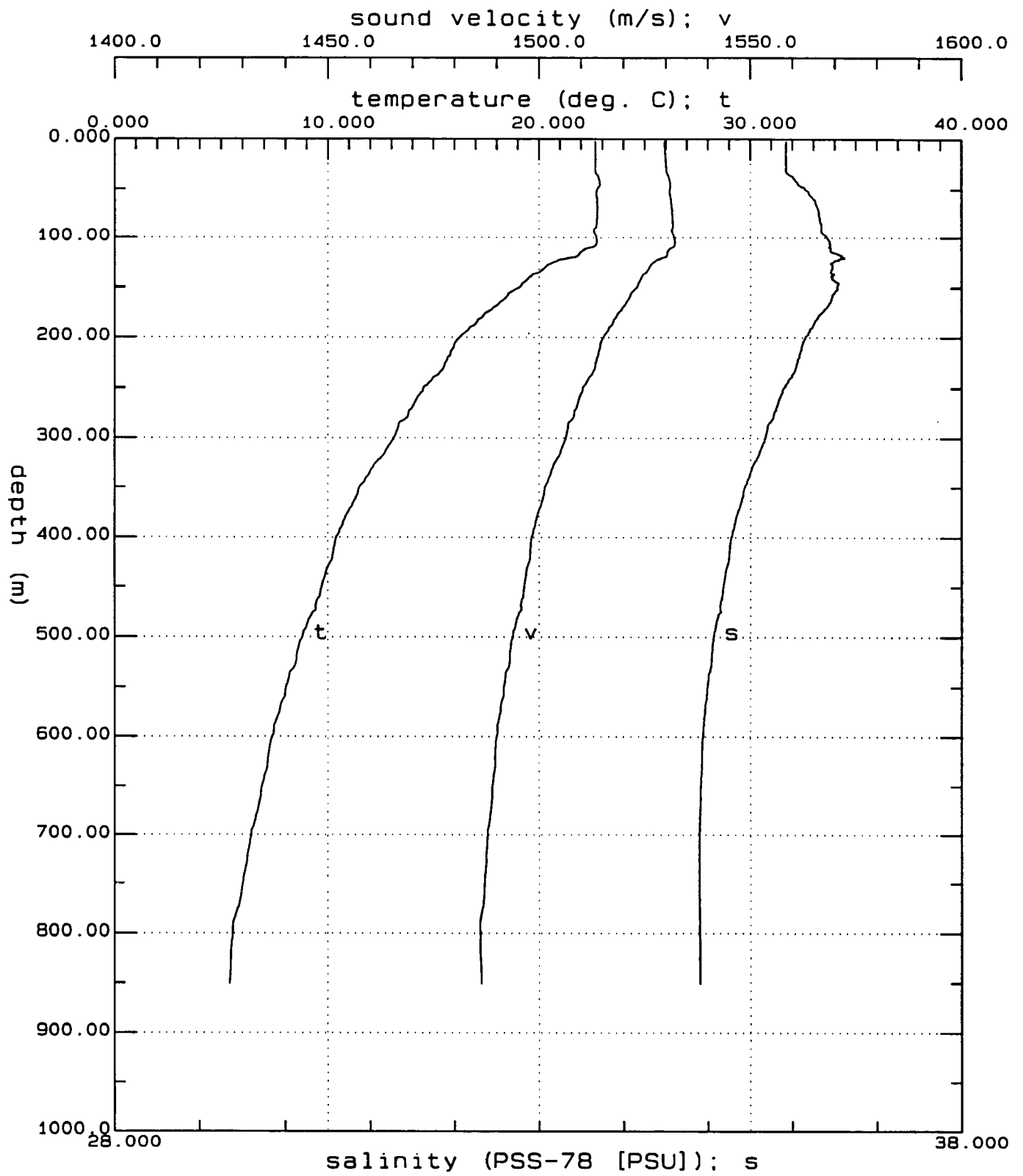
Depth	Temp.	Pot. Temp.	Salinity	Density	SVA	Sound V	Oxy.	Fluor.	Pressure
10	20.376	20.374	36.050	25.464	251.00	1523.84	5.005	.474	10.07
20	20.385	20.382	36.051	25.462	251.52	1524.03	5.039	.559	20.14
30	20.390	20.384	36.081	25.484	249.82	1524.25	5.024	.563	30.20
50	20.355	20.346	36.183	25.571	242.31	1524.60	4.933	.656	50.34
75	20.126	20.112	36.284	25.709	230.02	1524.51	4.563	.170	75.52



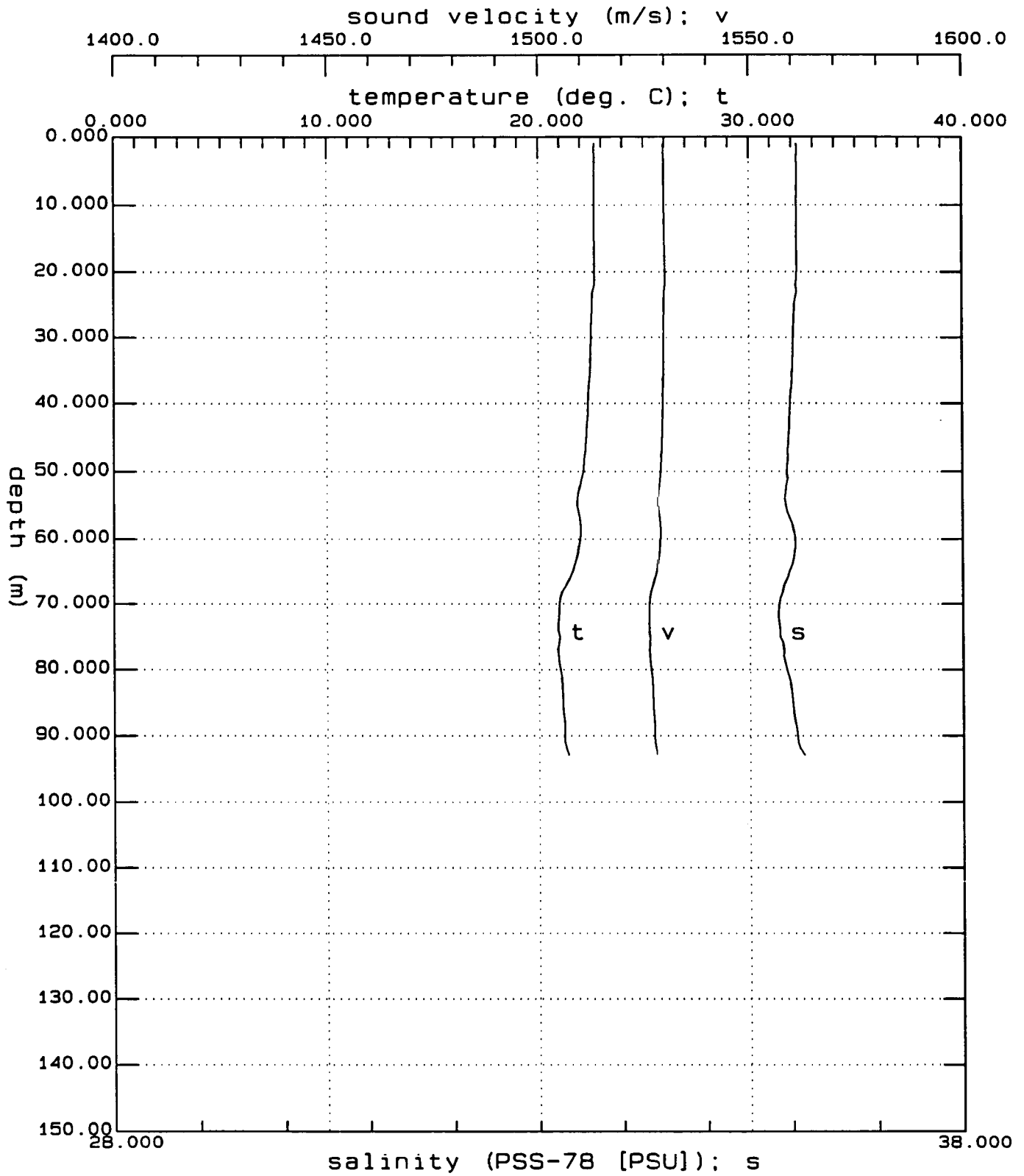
02-010.CNV: Gulfcet Cruise 04



02-013.CNV: Gulfcet Cruise 04

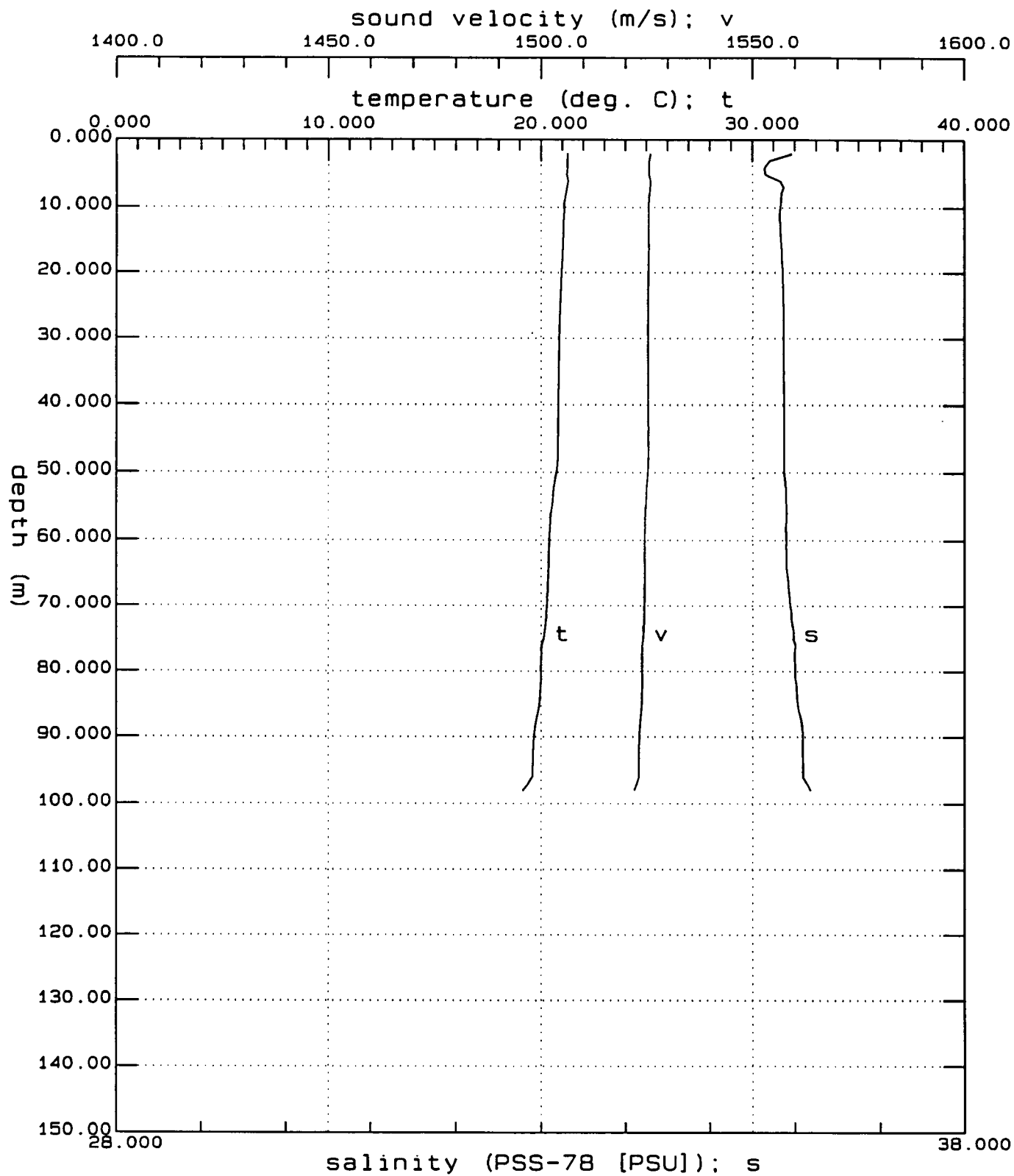


02-015.CNV: Gulfcet Cruise 04

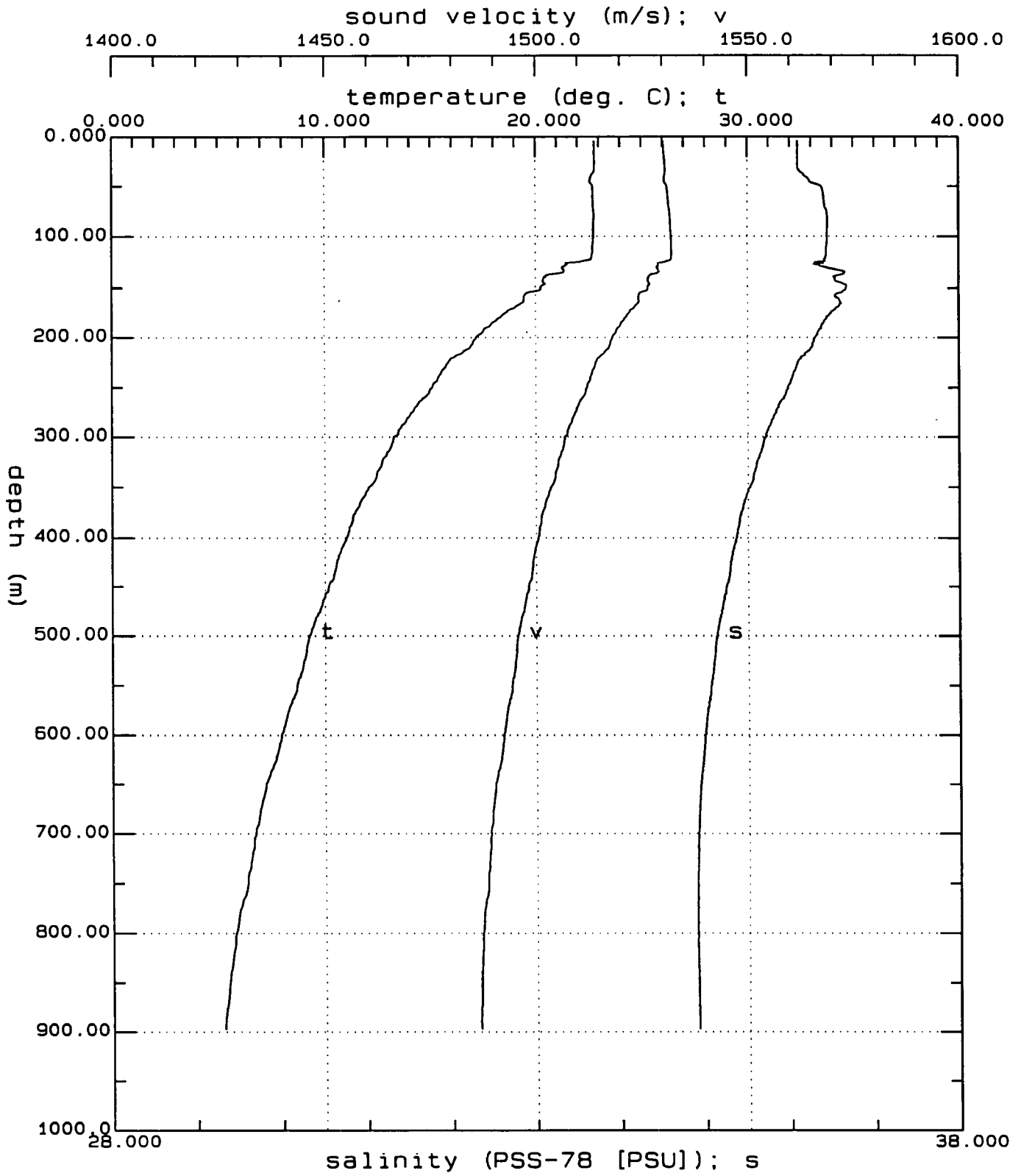


02-020.CNV: Gulfcet Cruise 04

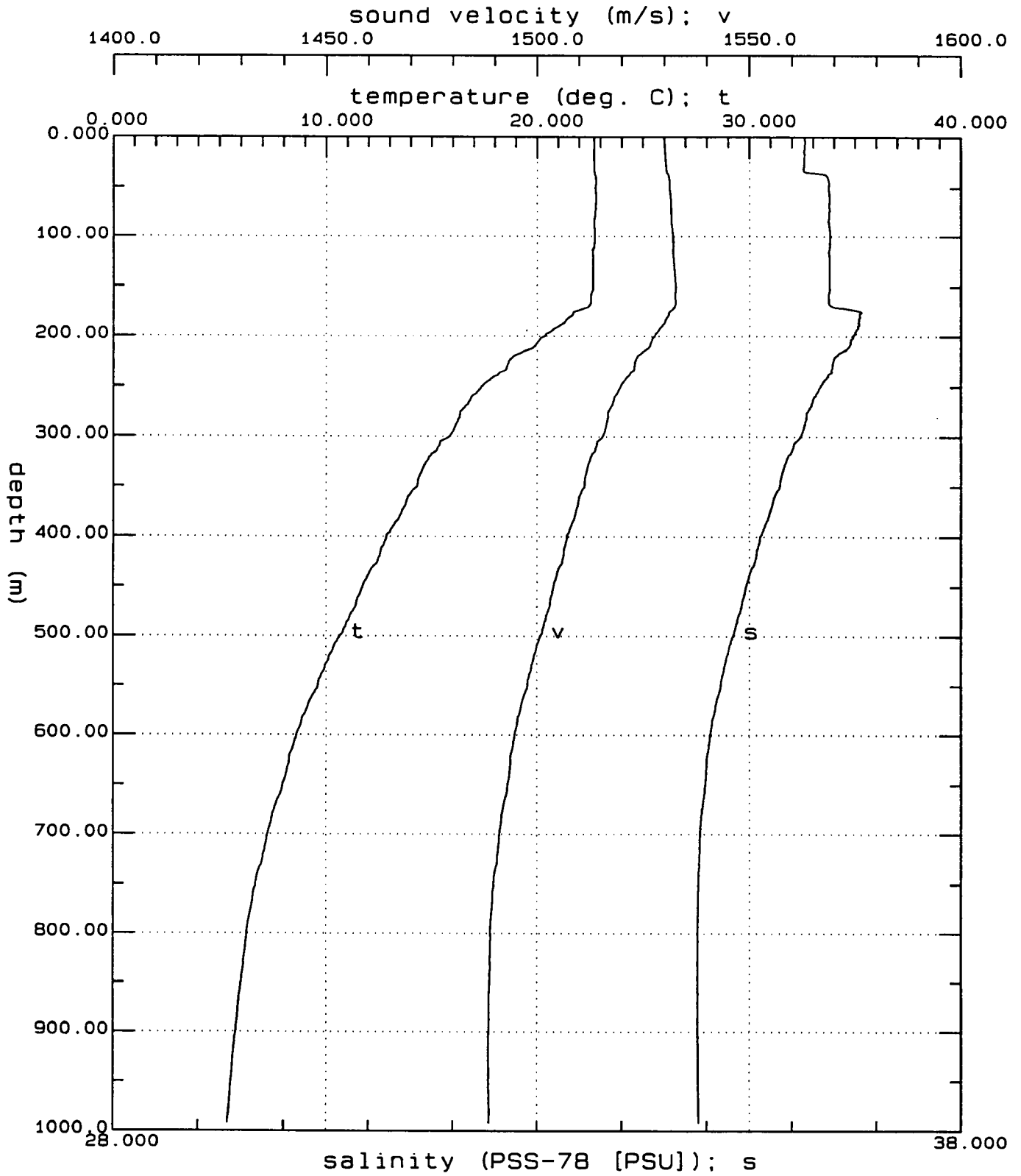




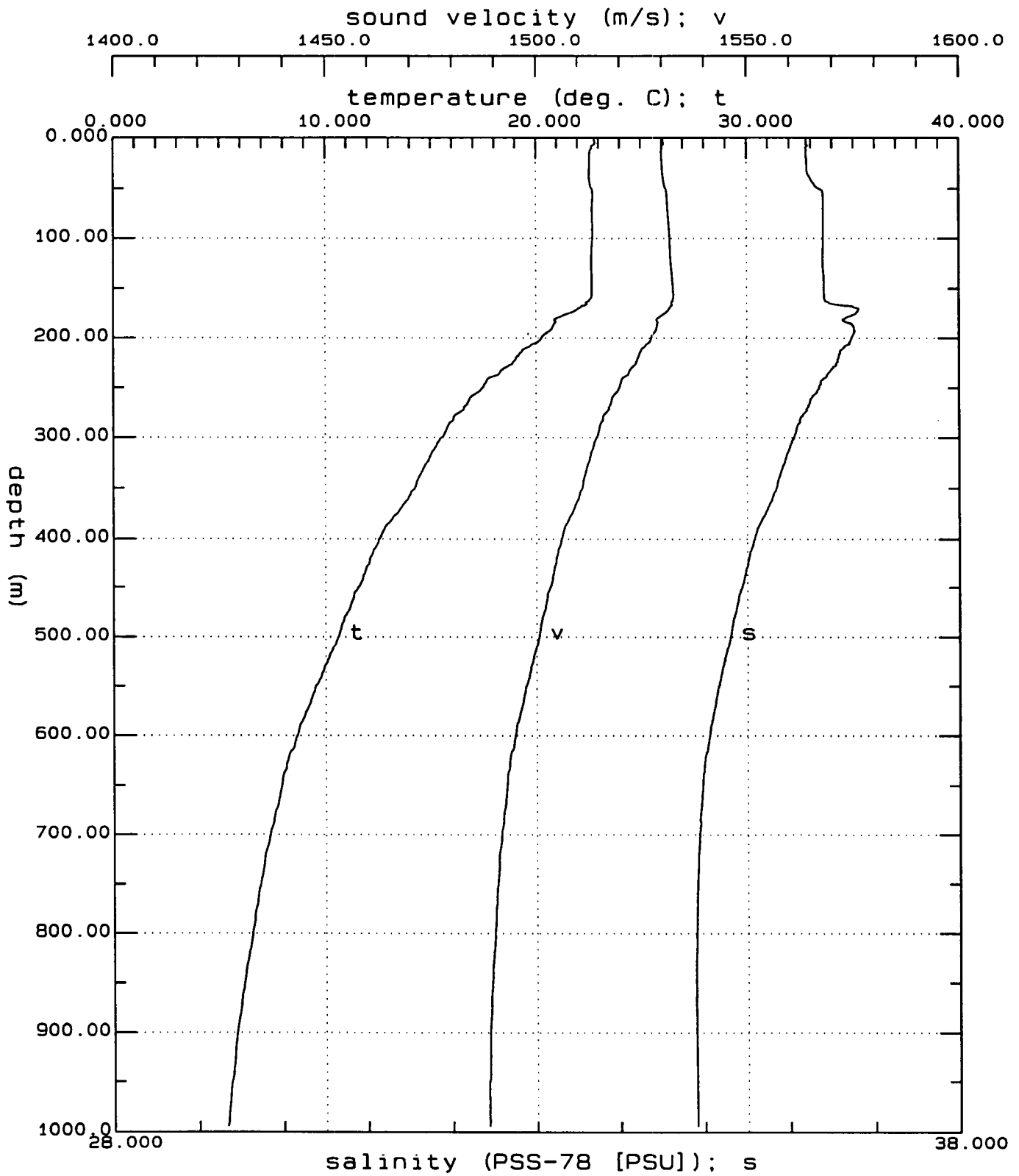
03-021.CNV: Gulfcet Cruise 04



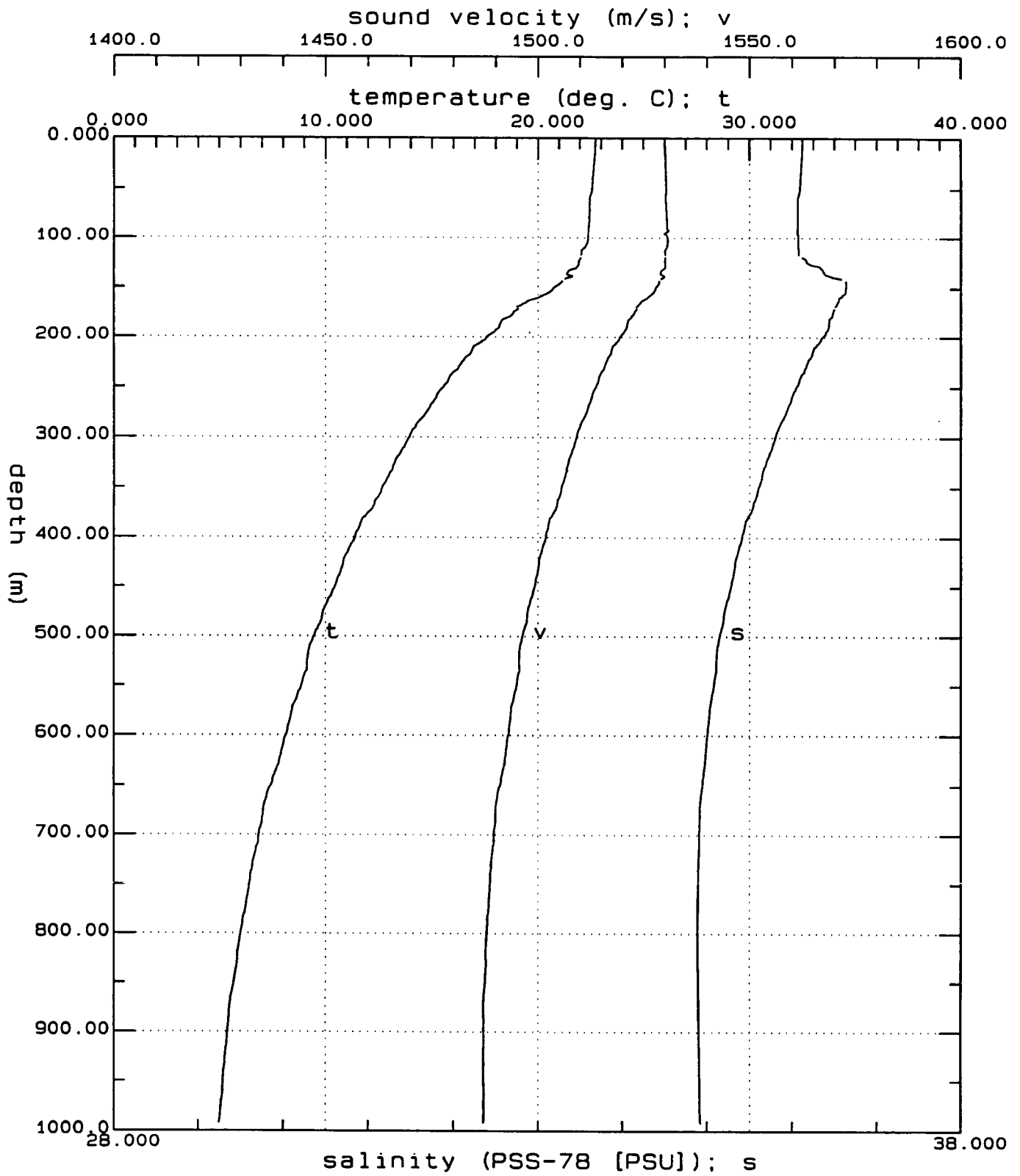
03-026.CNV: Gulfcet Cruise 04



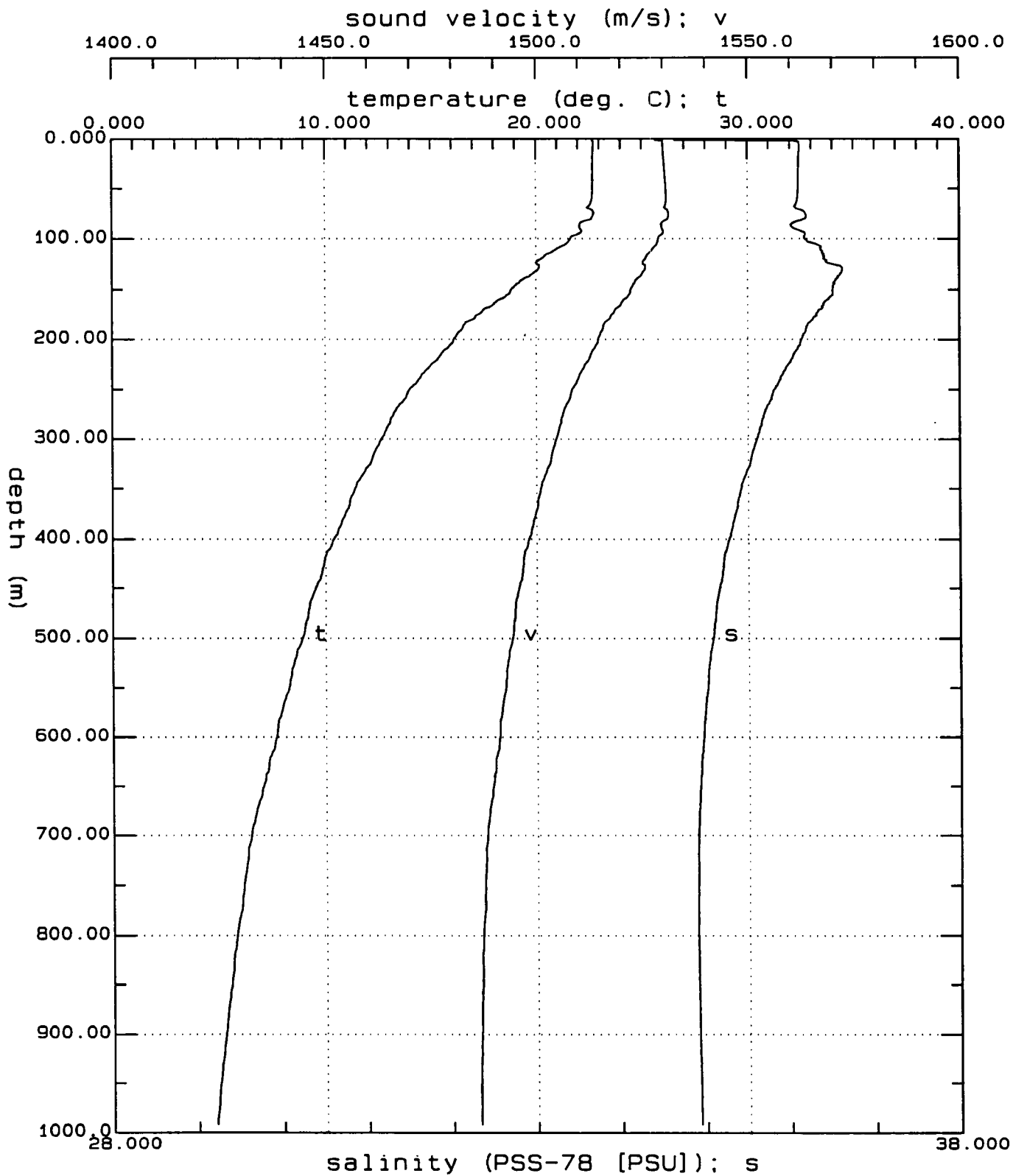
03-029.CNV: Gulfcet Cruise 04



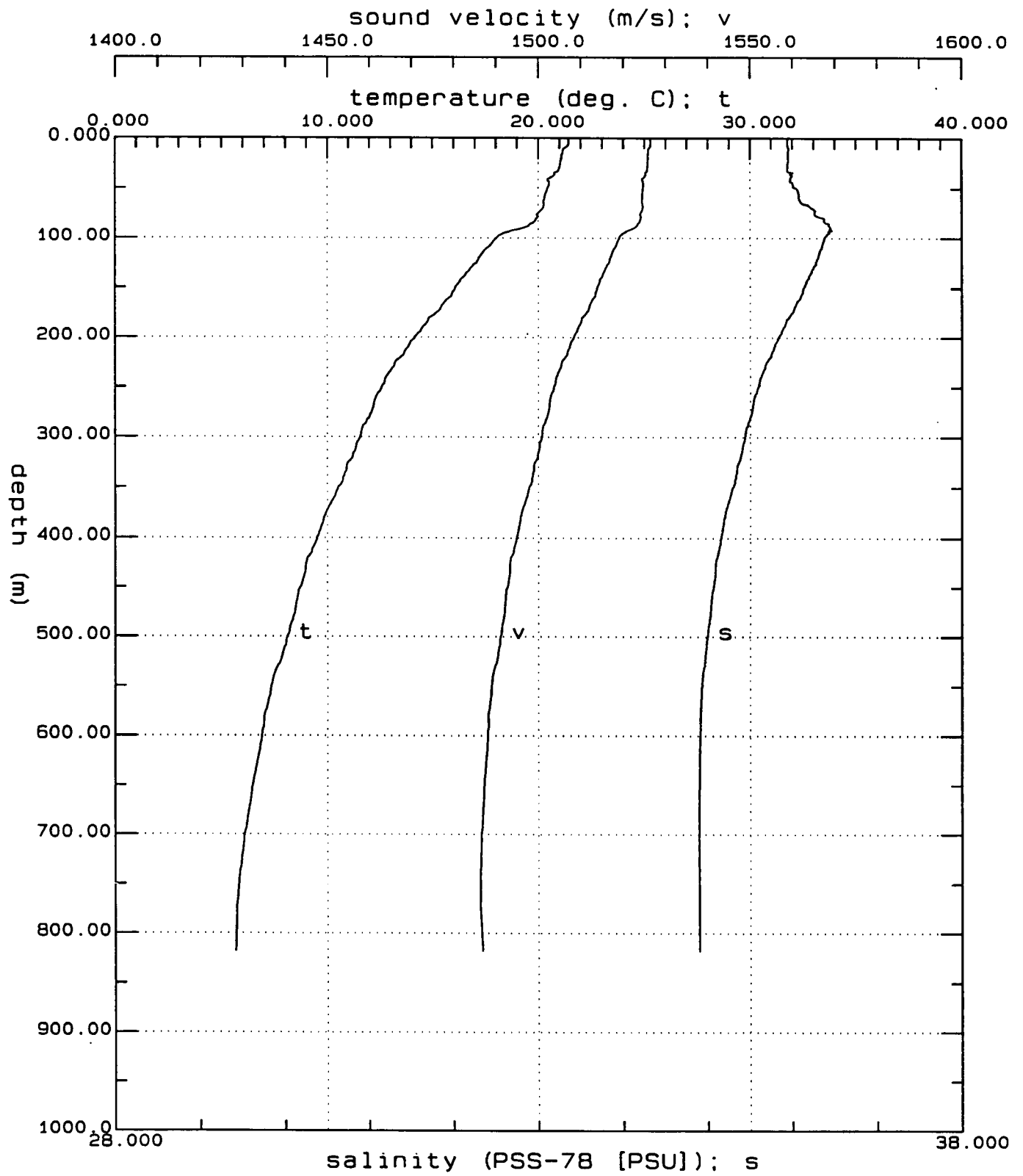
03-030.CNV: Gulfcet Cruise 04



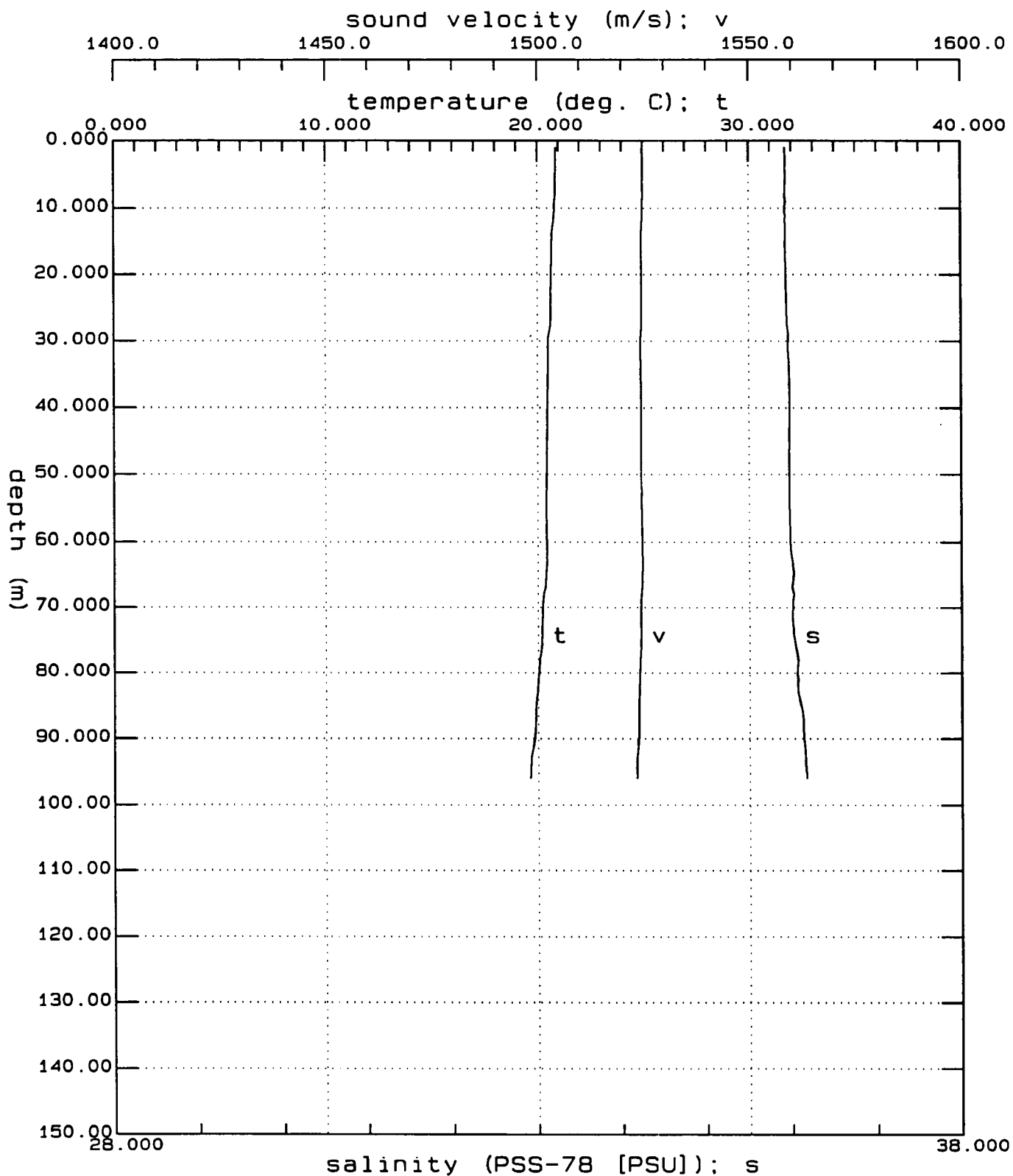
04-031.CNV: Gulfcet Cruise 04



04-033.CNV: Gulfcet Cruise 04

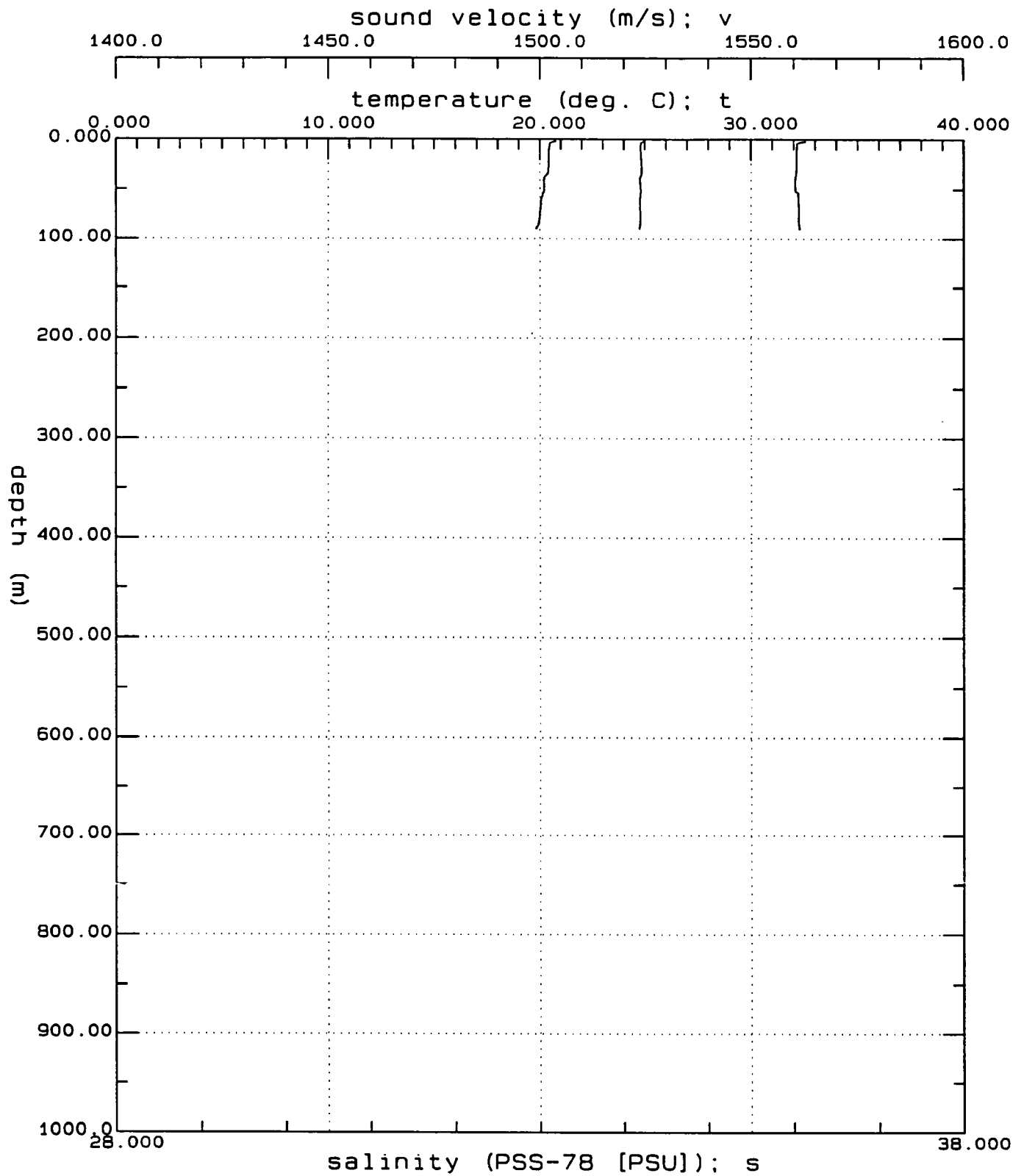


04-036.CNV: Gulfcet Cruise 04

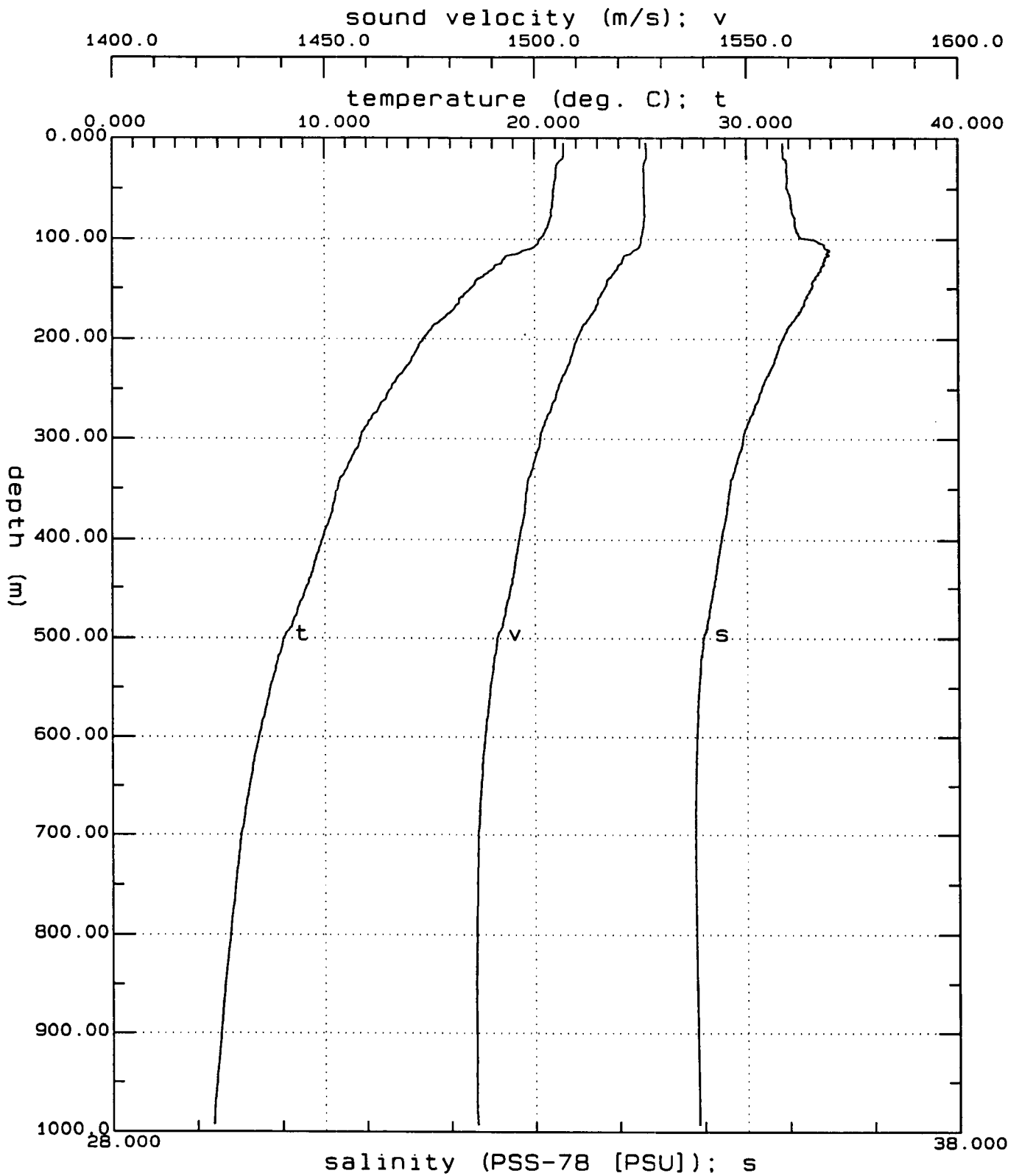


04-042.CNV: Gulfcet Cruise 04

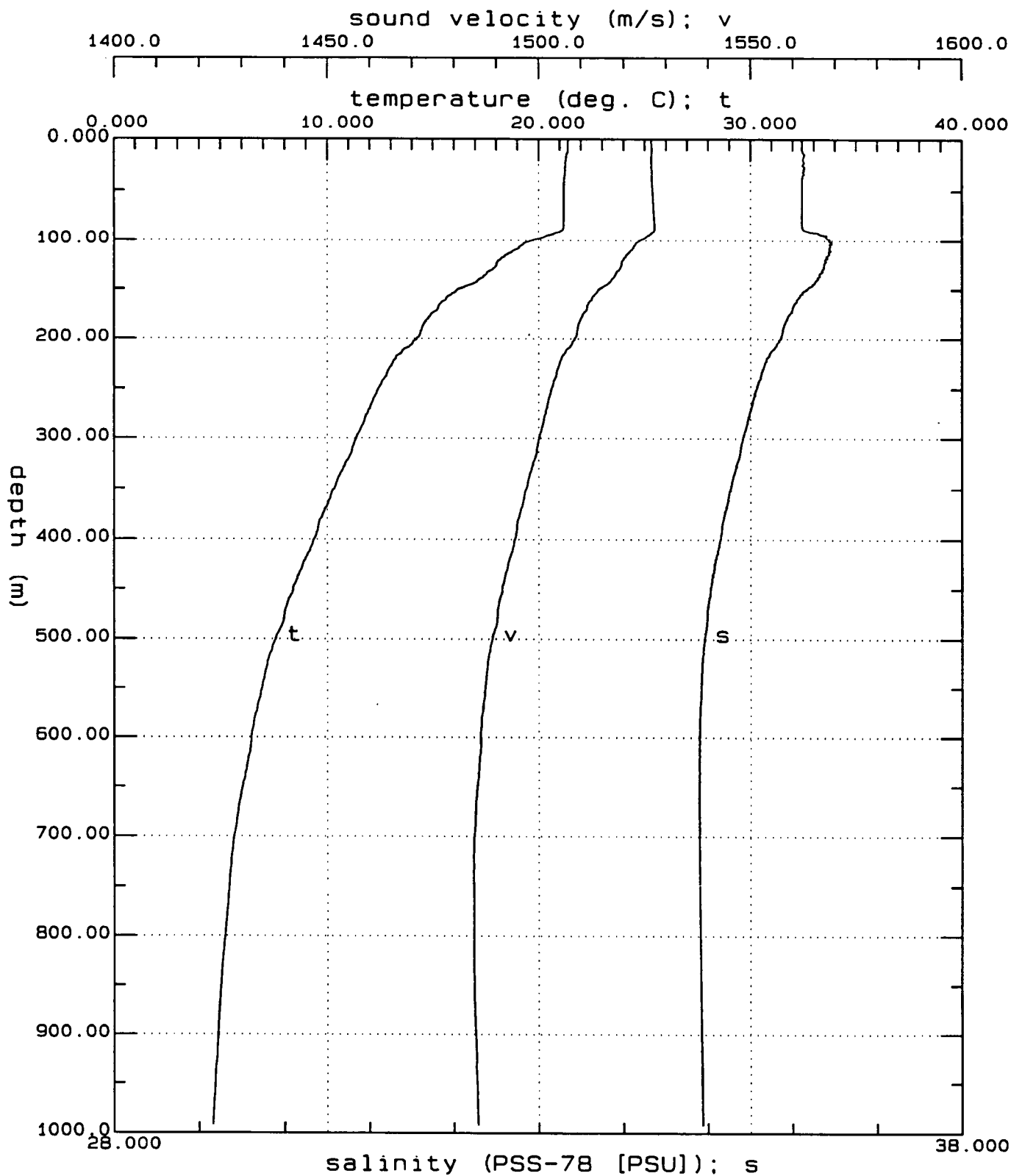




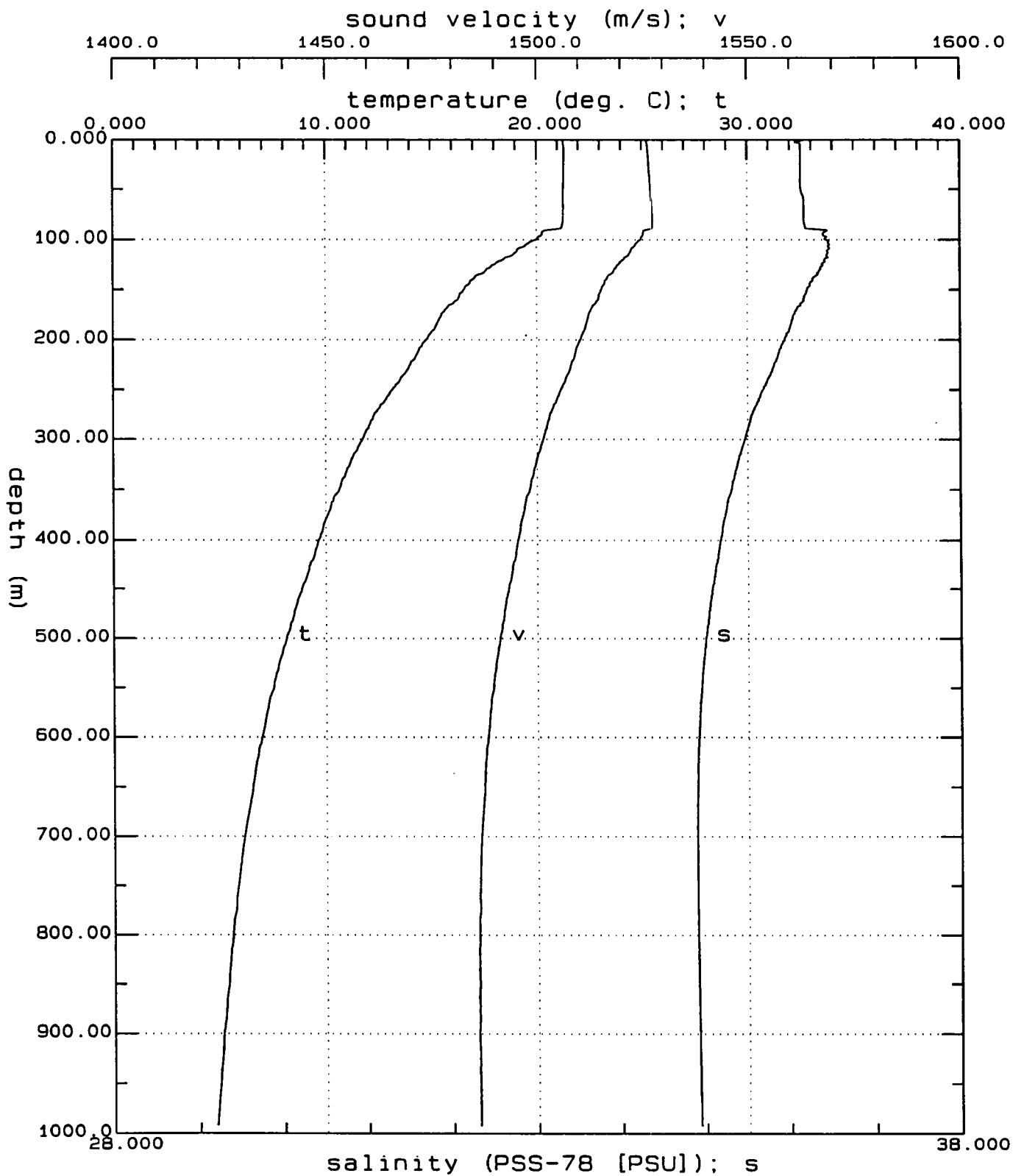
05-047.CNV: Gulfcet Cruise 04



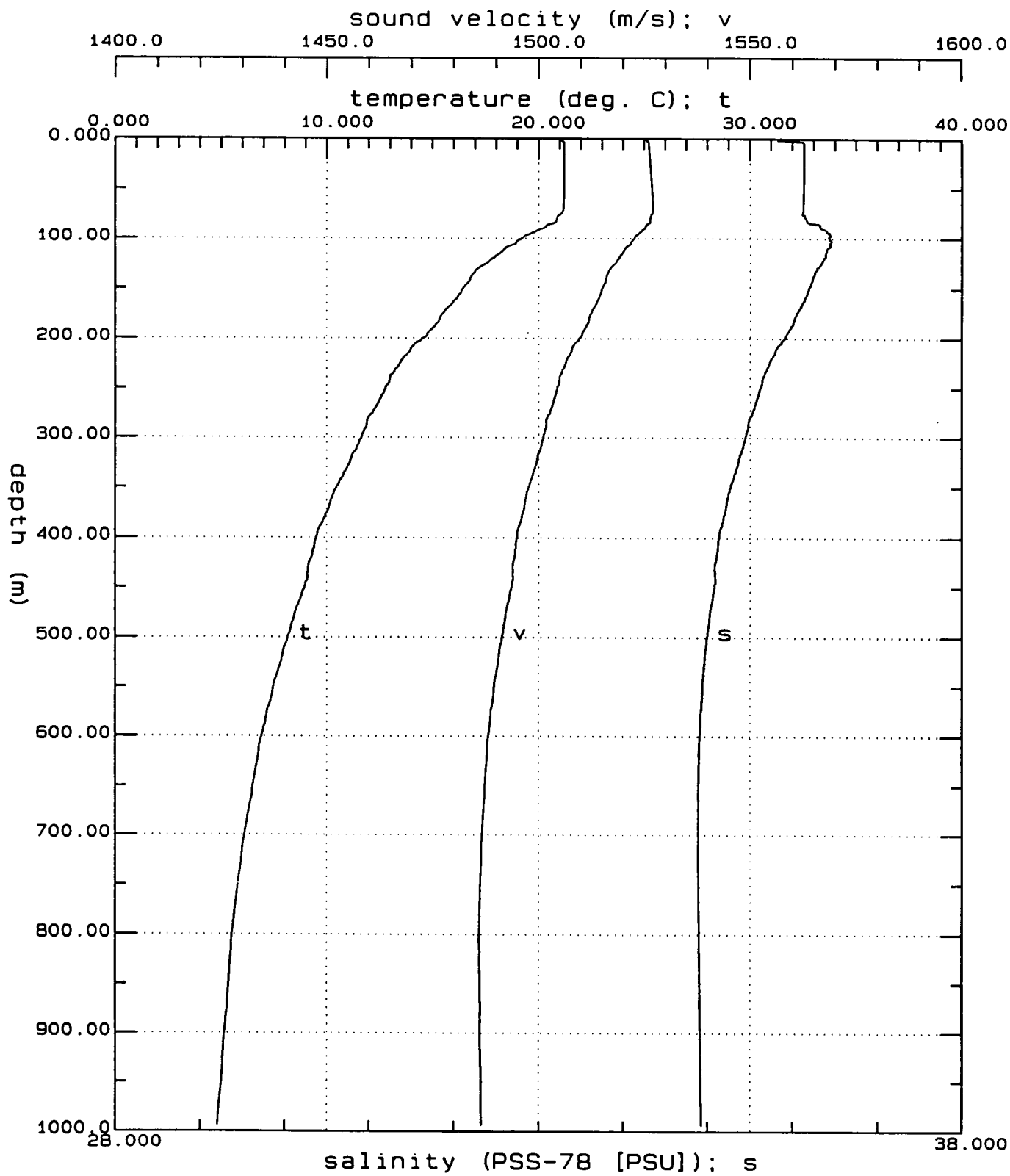
05-050.CNV: Gulfcet Cruise 04



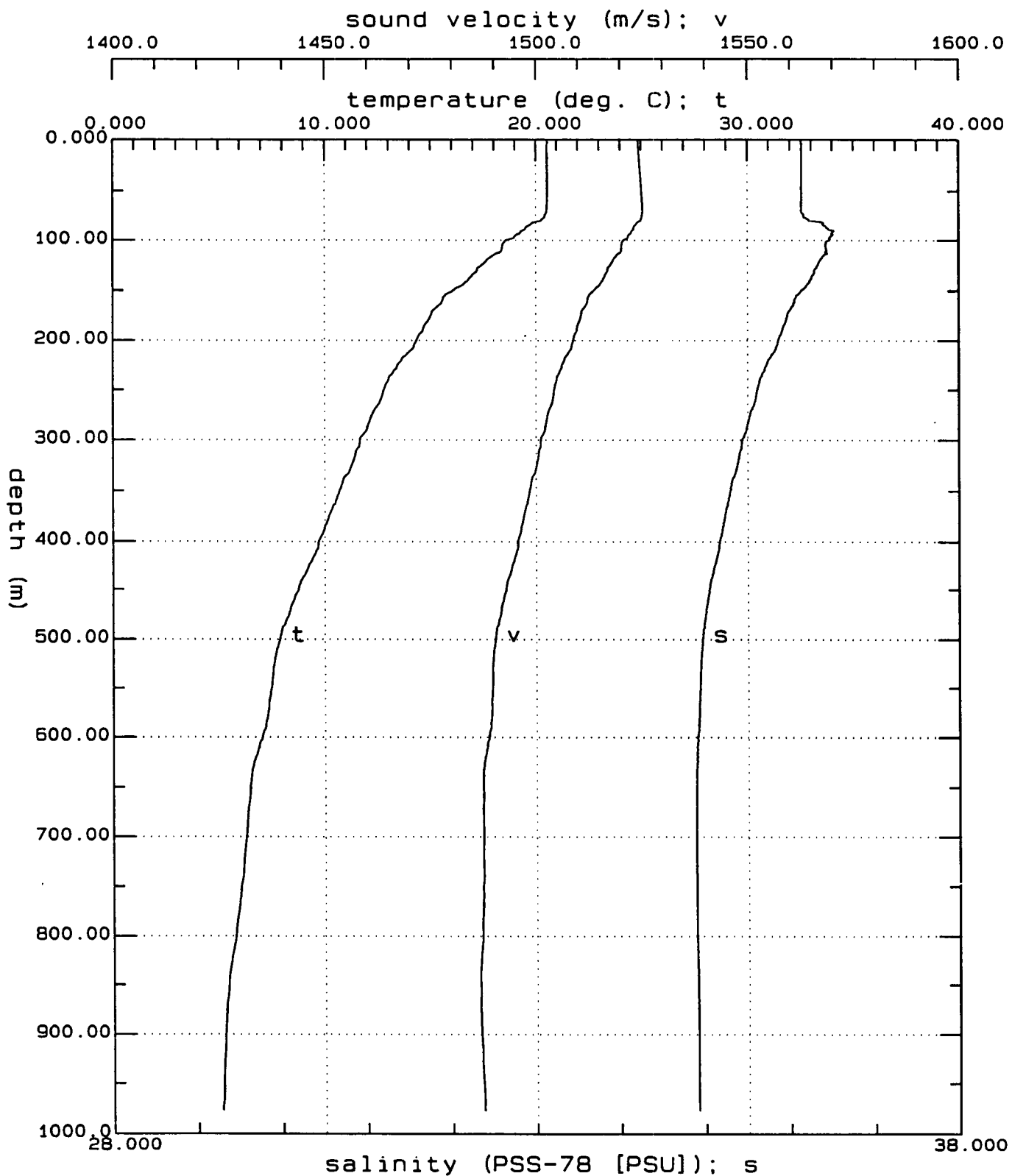
05-053.CNV: Gulfcet Cruise 04



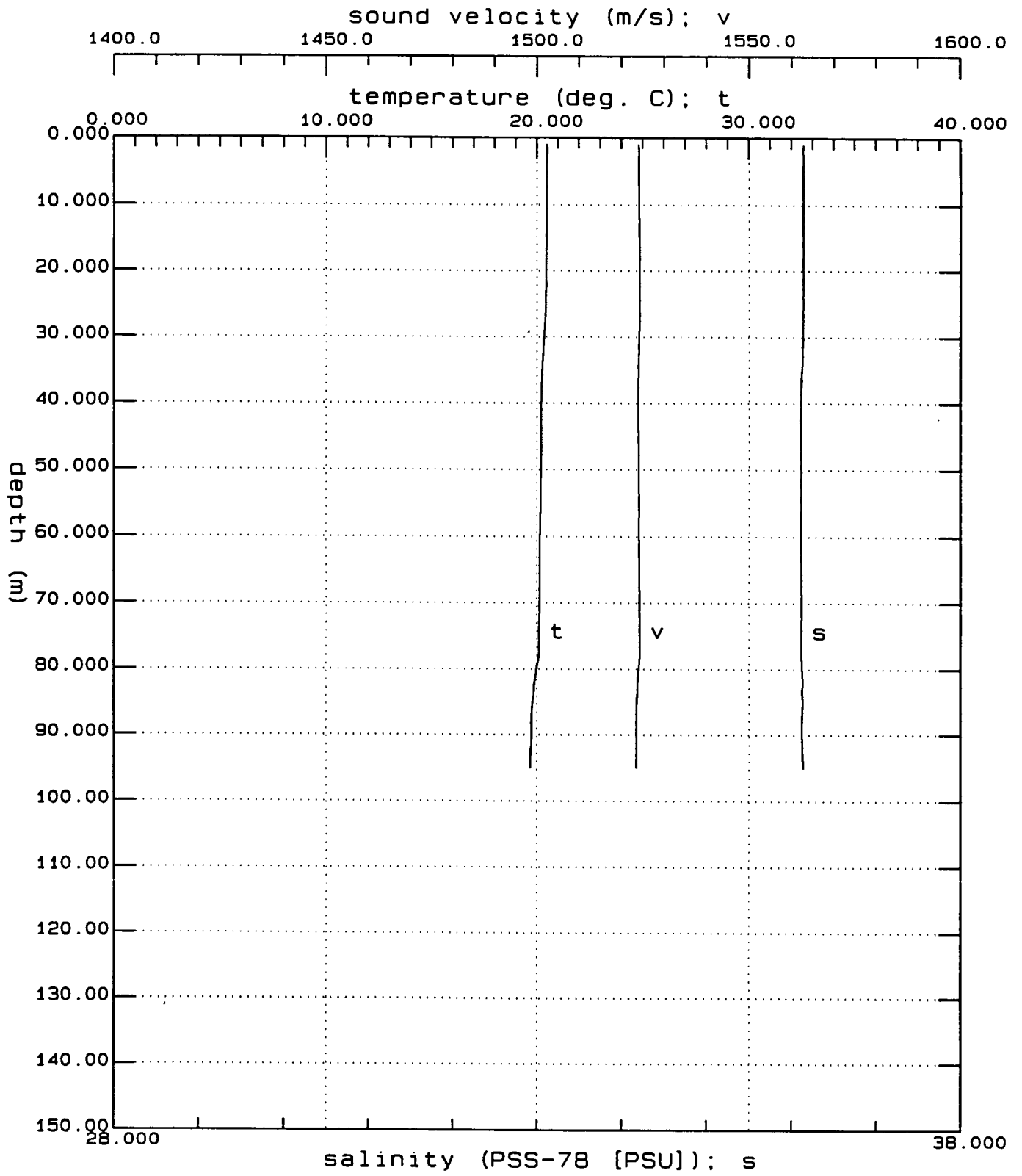
06-054.CNV: Gulfcet Cruise 04



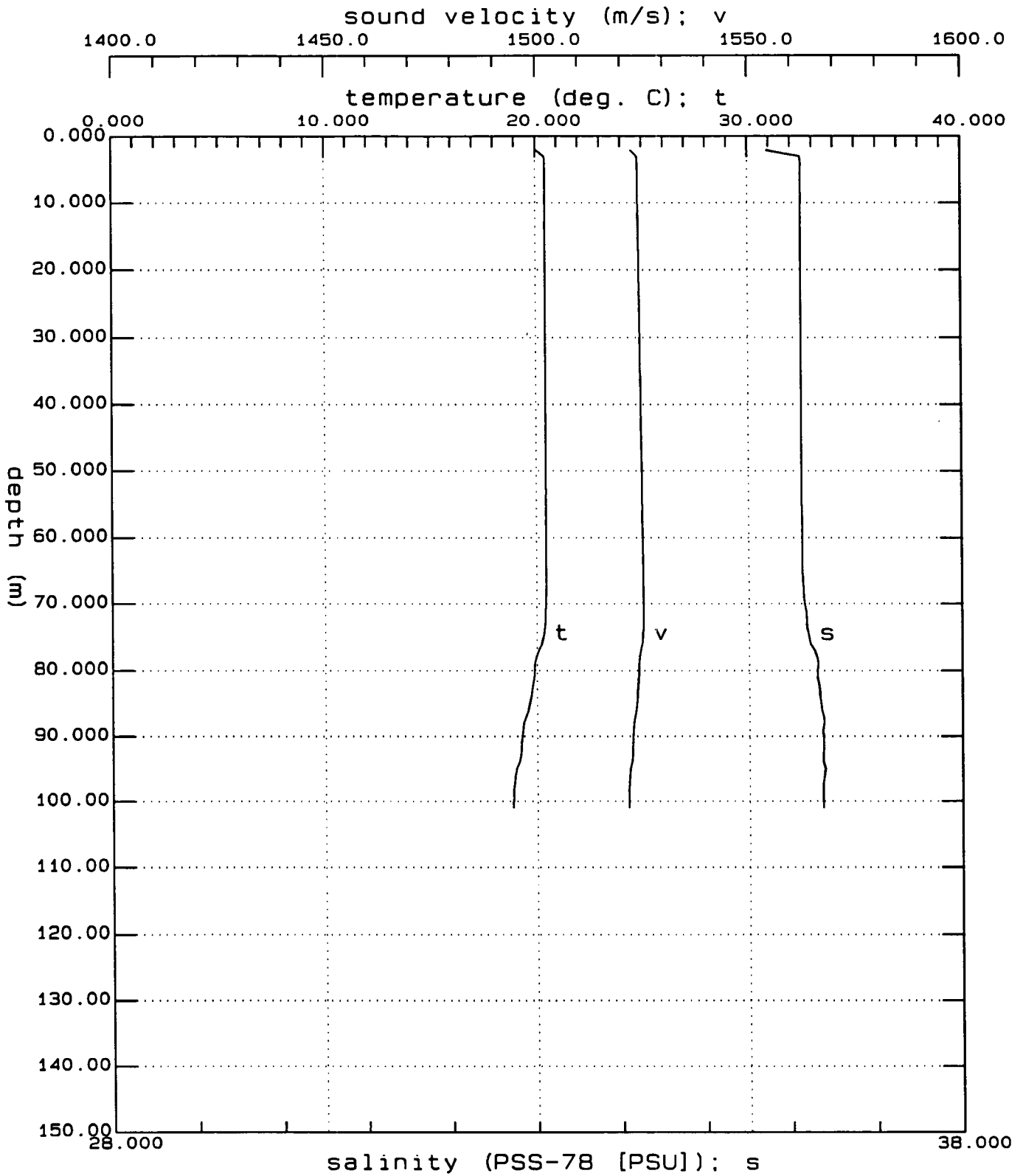
06-055.CNV: Gulfcet Cruise 04



06-059.CNV: Gulfcet Cruise 04

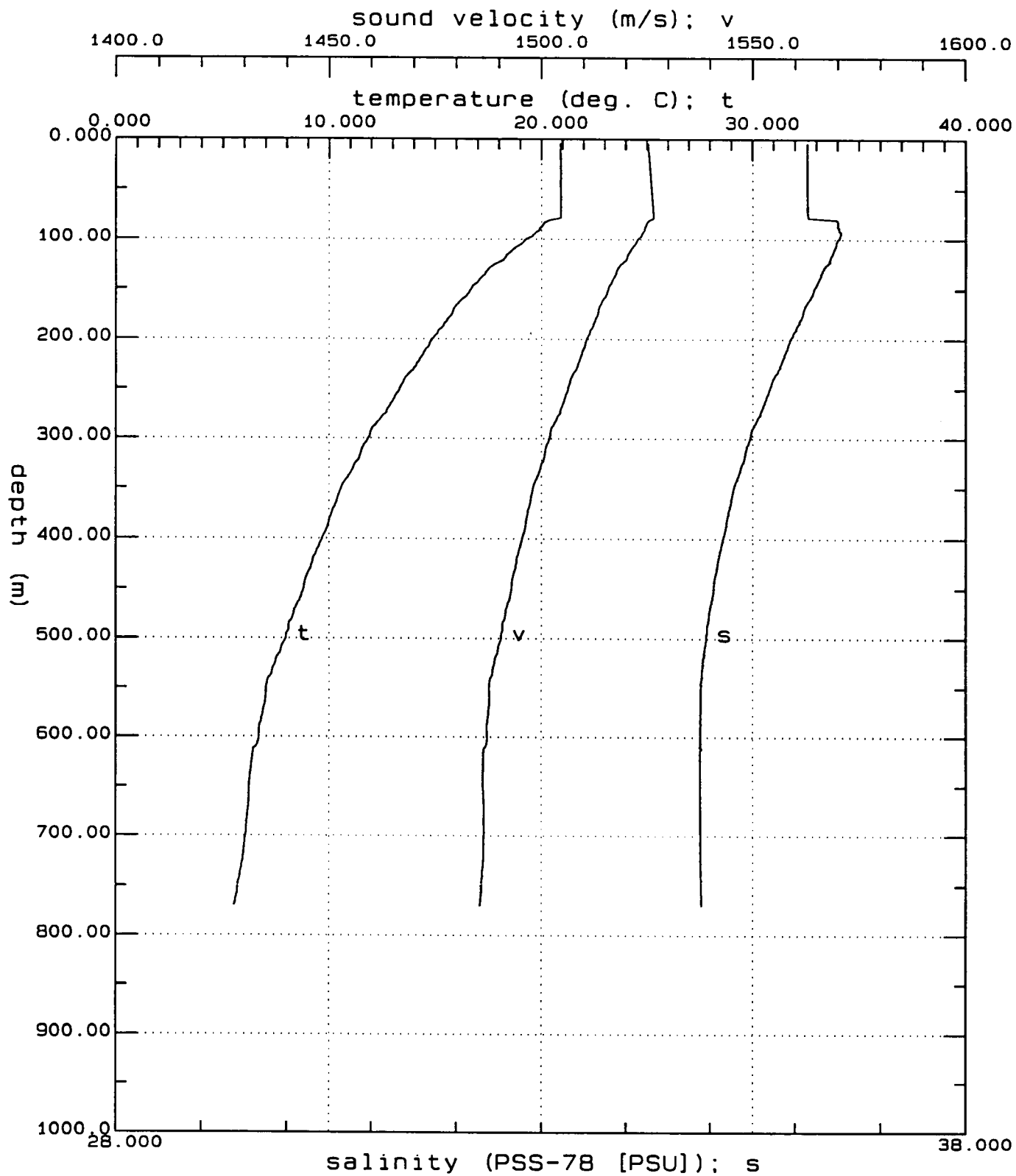


06-064.CNV: Gulfcet Cruise 04

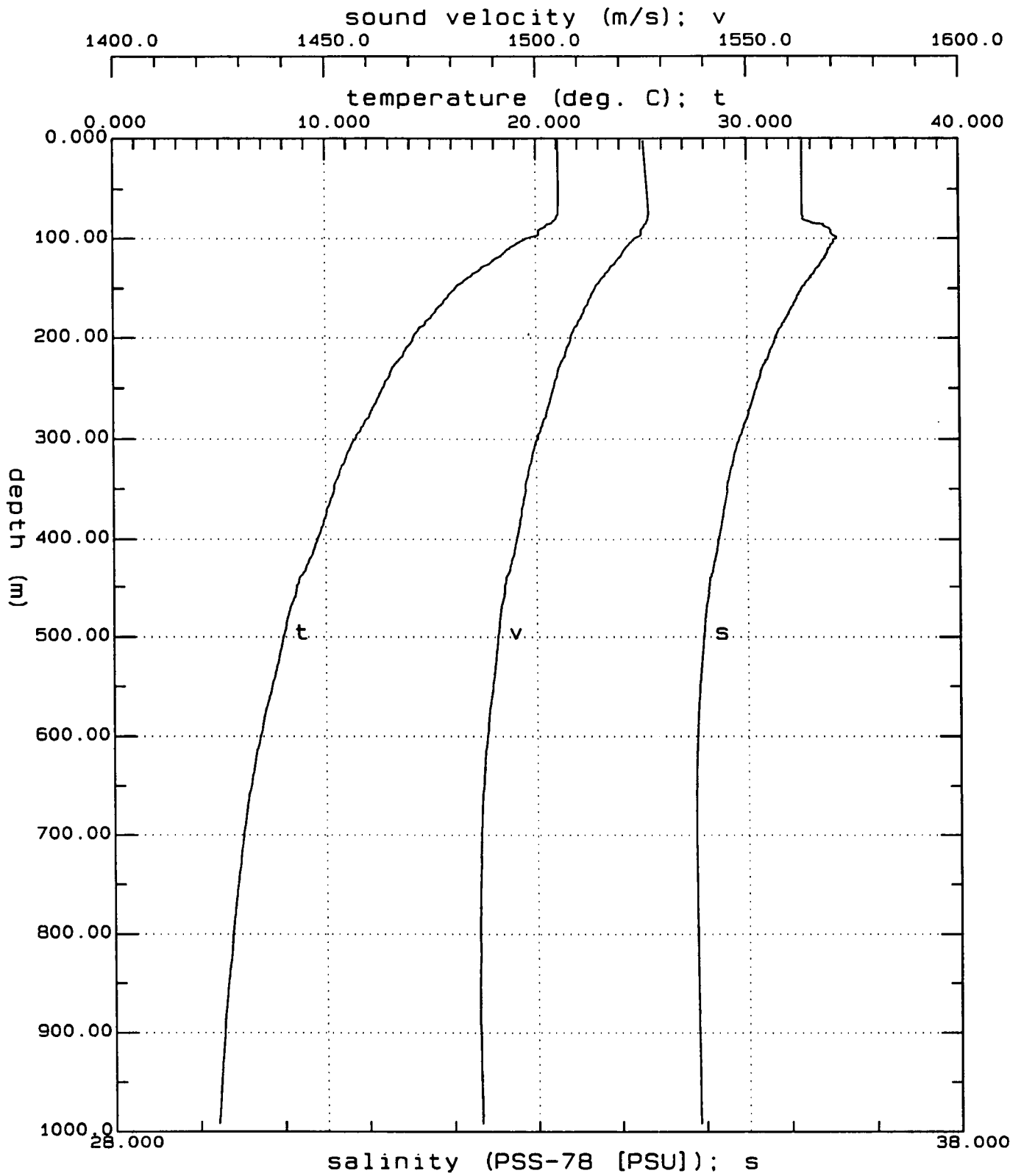


07-065.CNV: Gulfcet Cruise 04

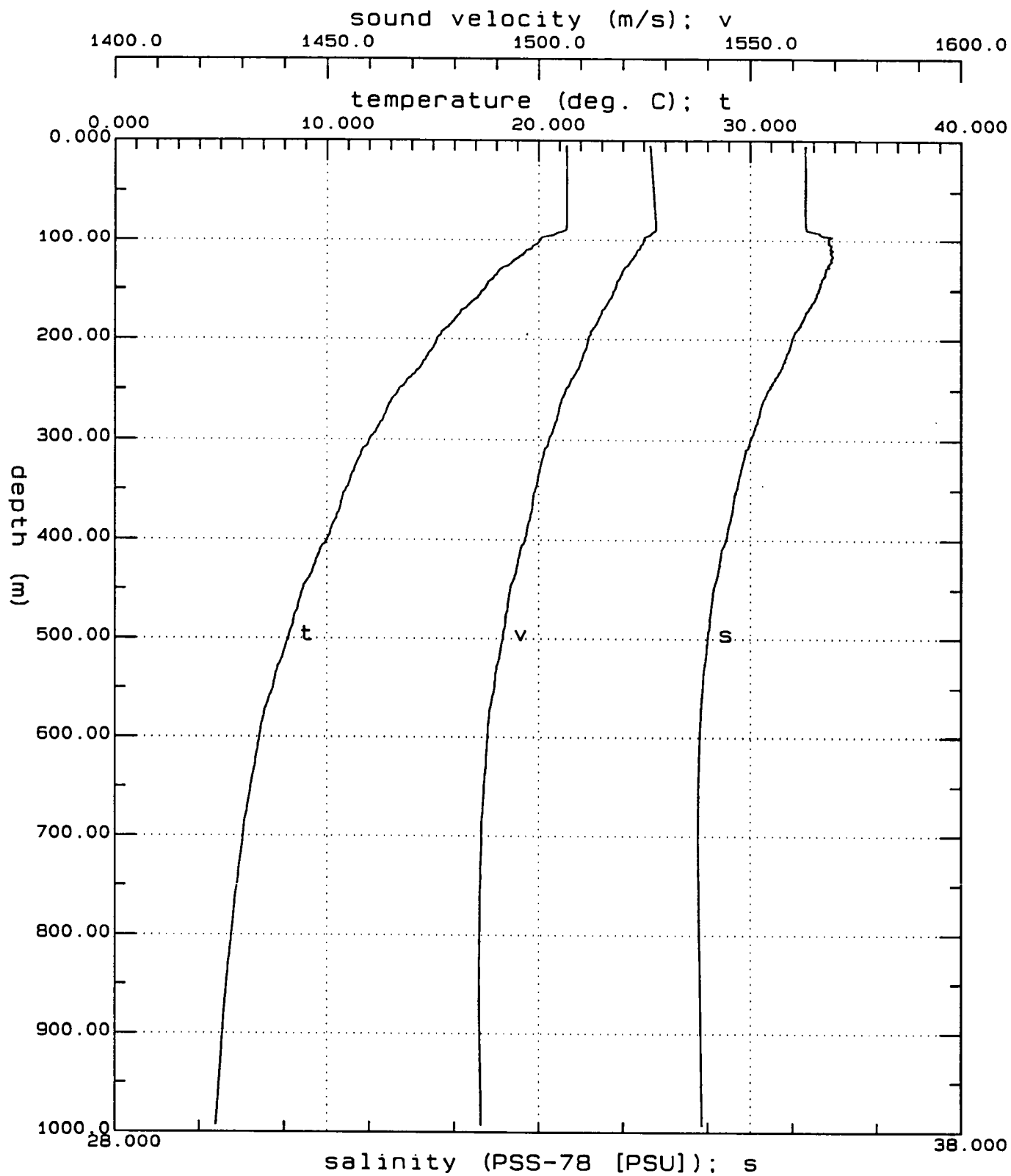




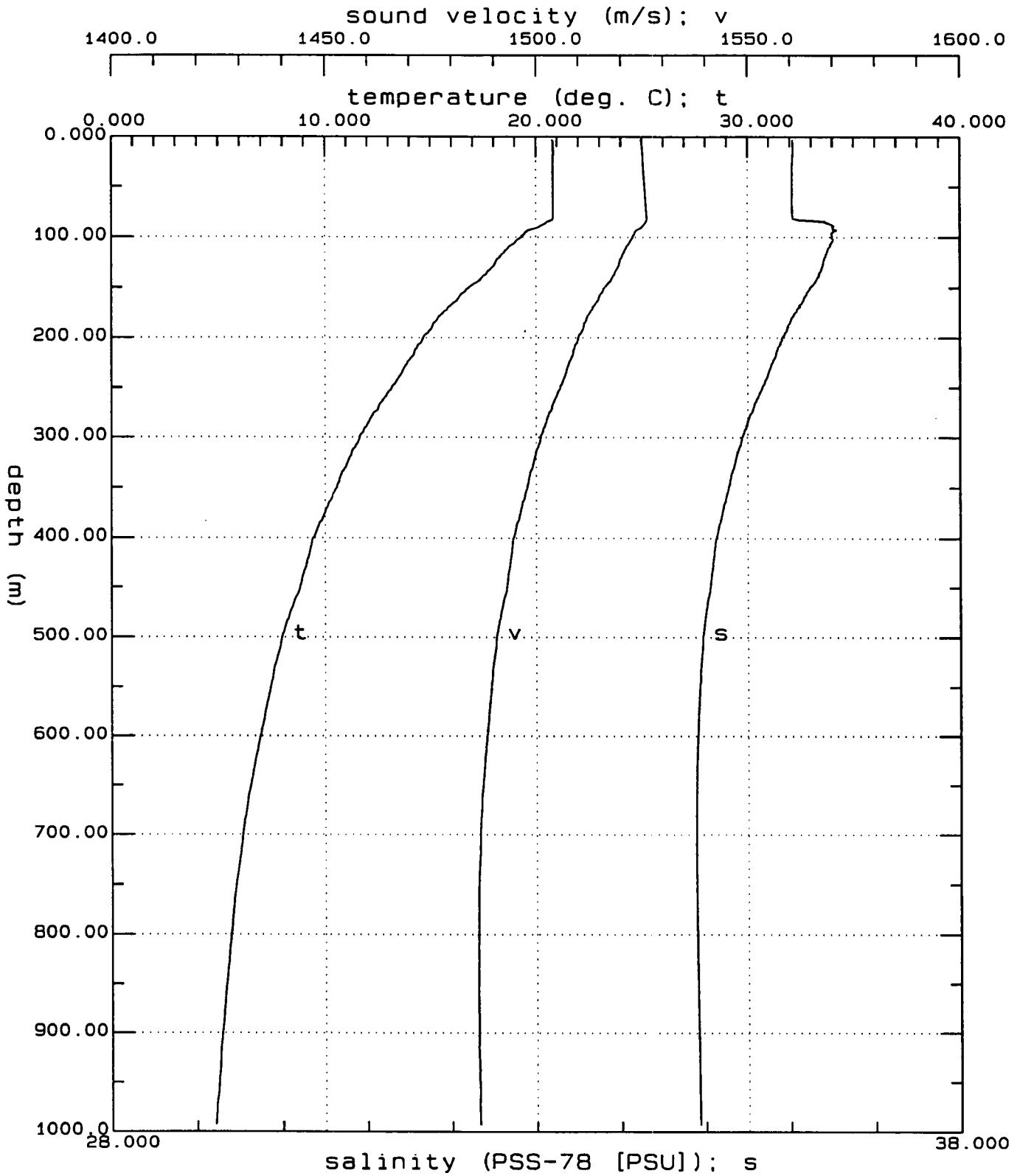
07-071.CNV: Gulfcet Cruise 04



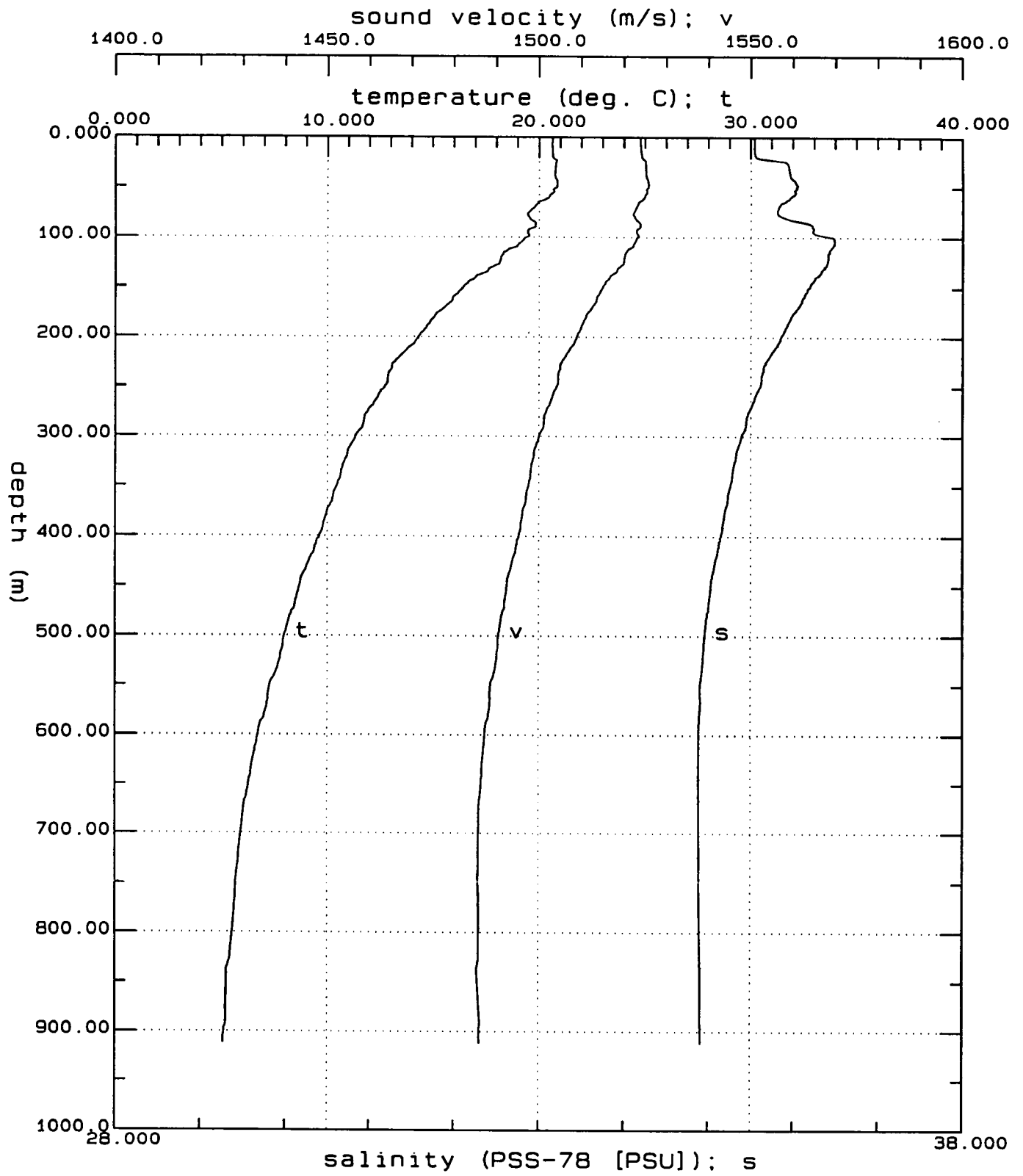
07-073.CNV: Gulfcet Cruise 04



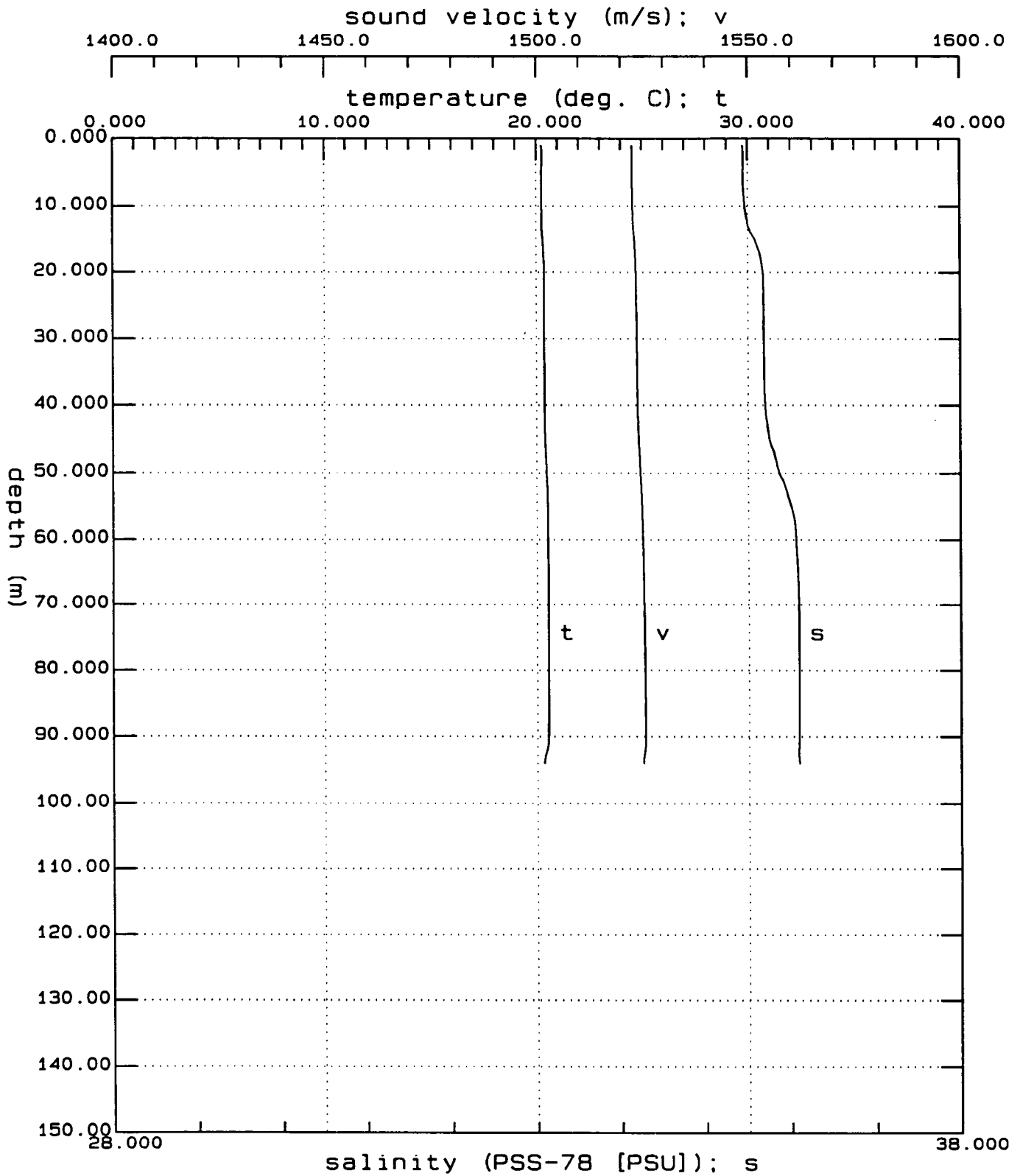
07-075.CNV: Gulfcet Cruise 04



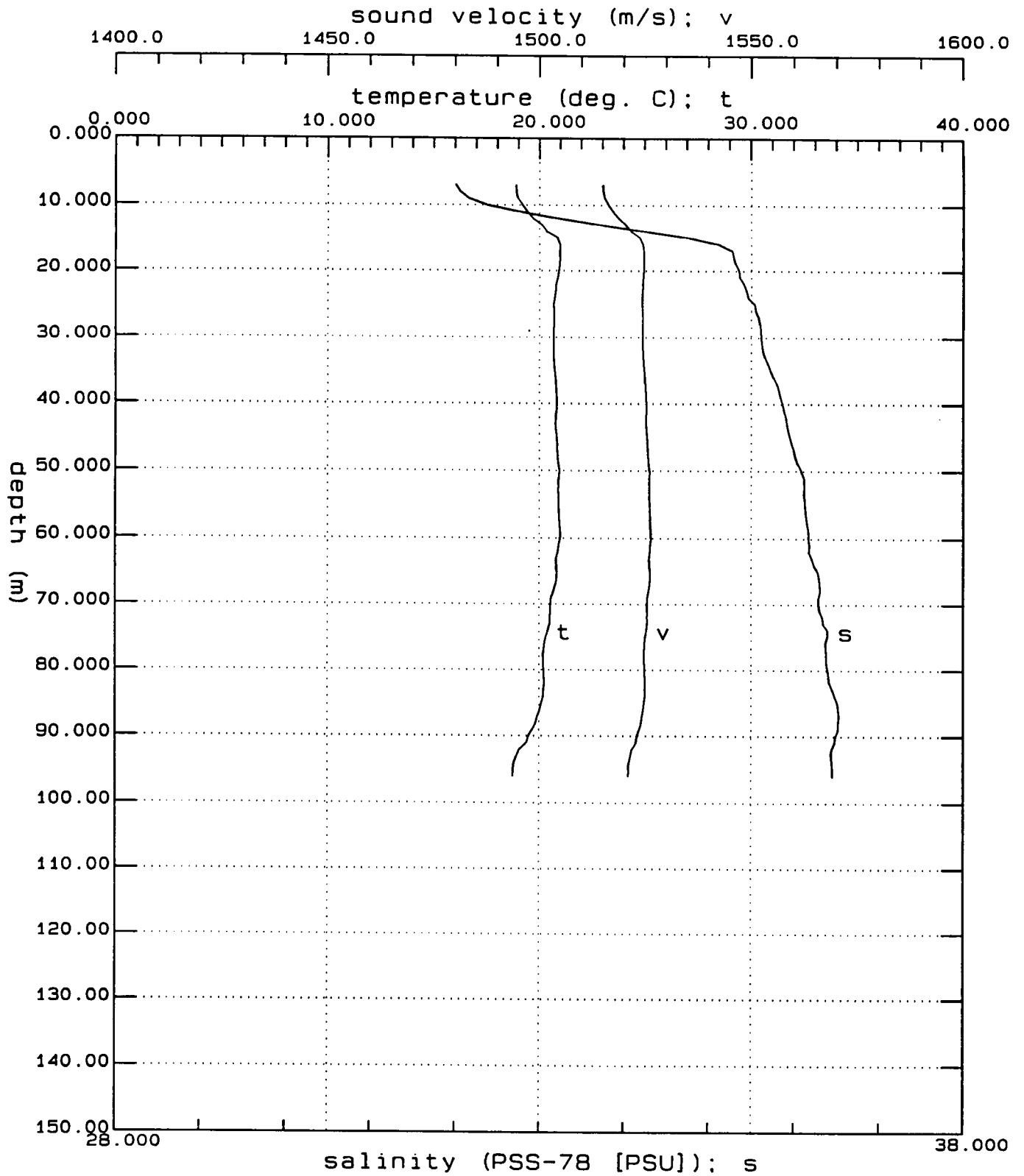
08-076.CNV: Gulfcet Cruise 04



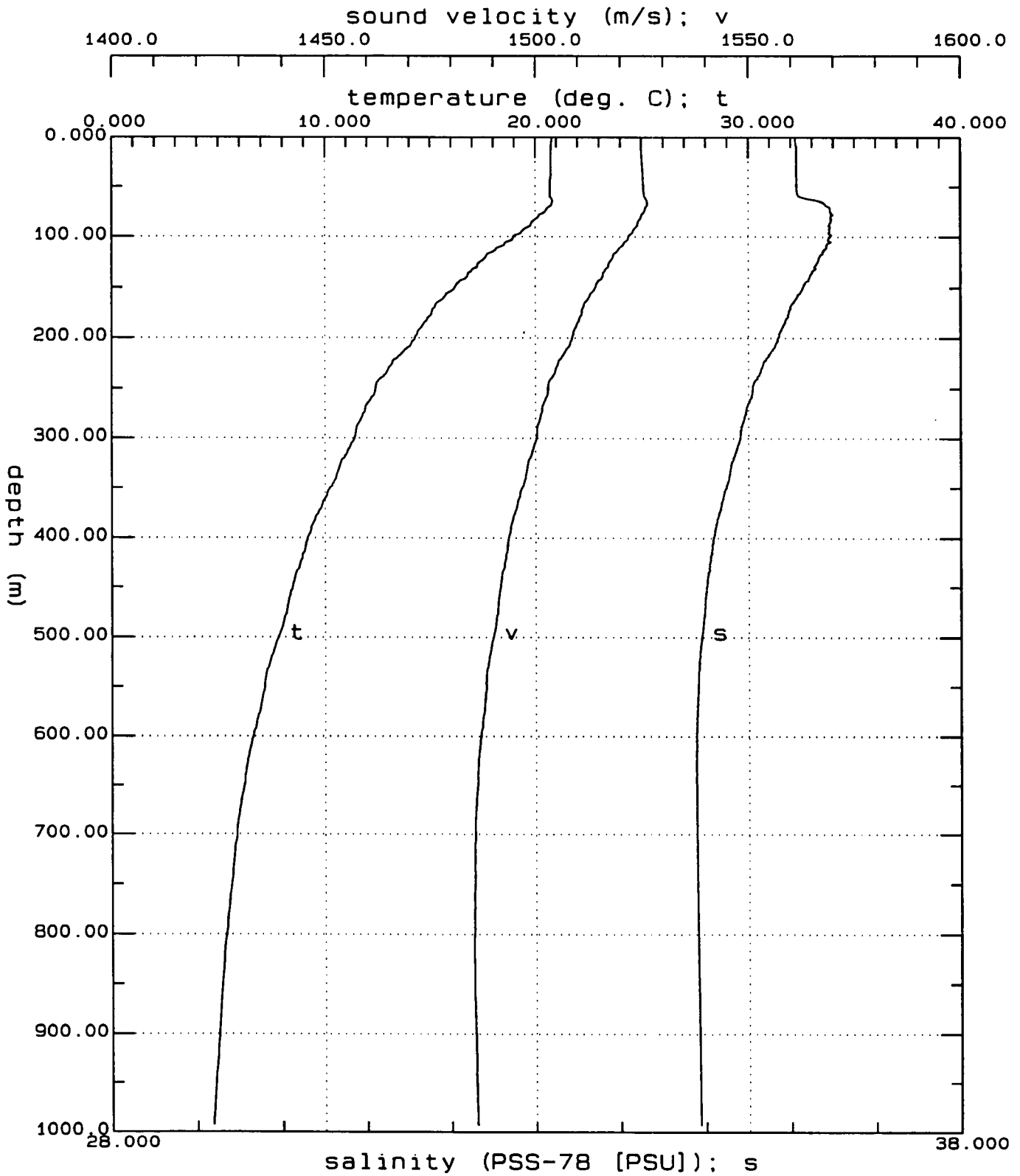
08-080.CNV: Gulfcet Cruise 04



08-086.CNV: Gulfcet Cruise 04

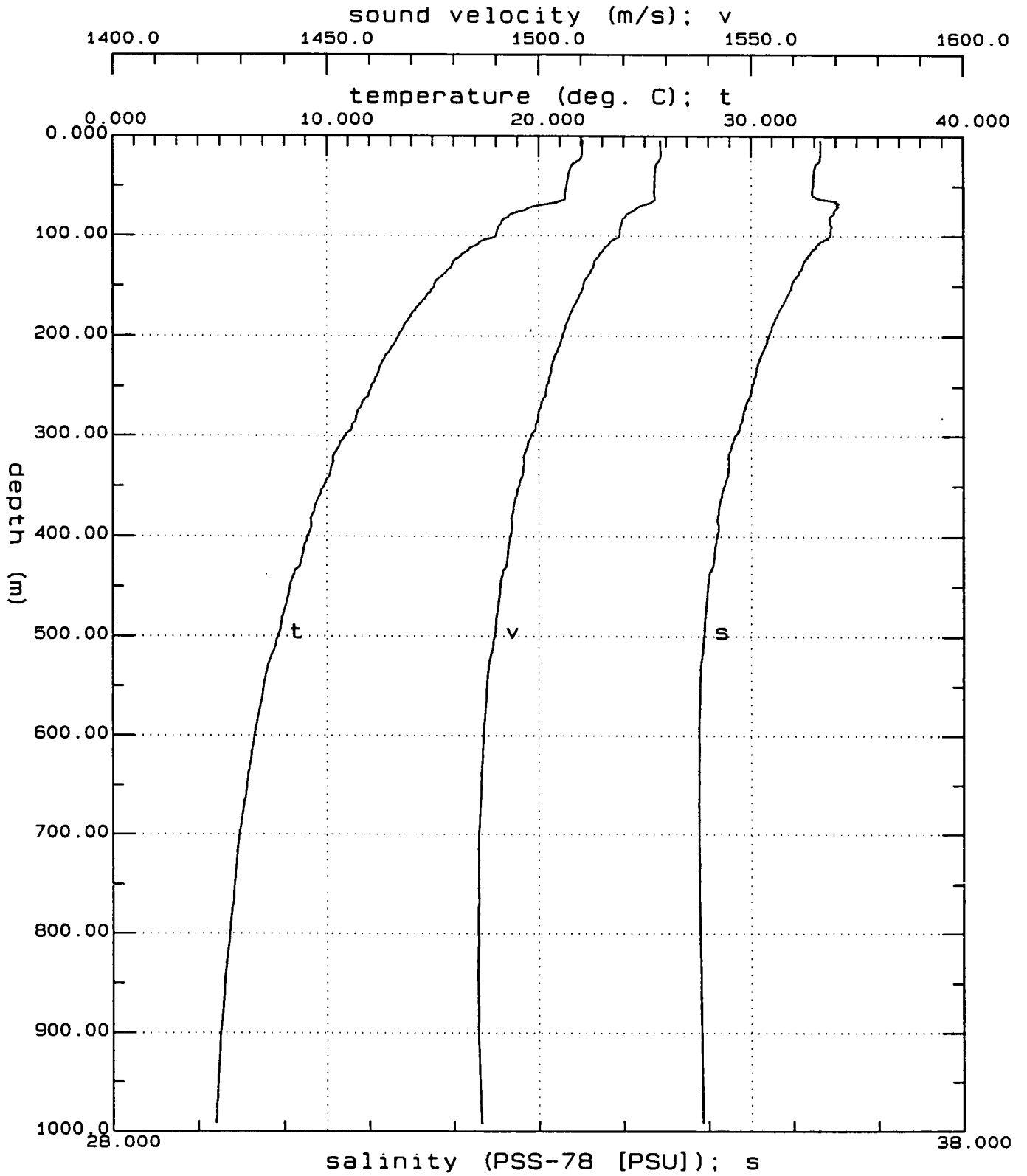


09-087.CNV: Gulfcet Cruise 04

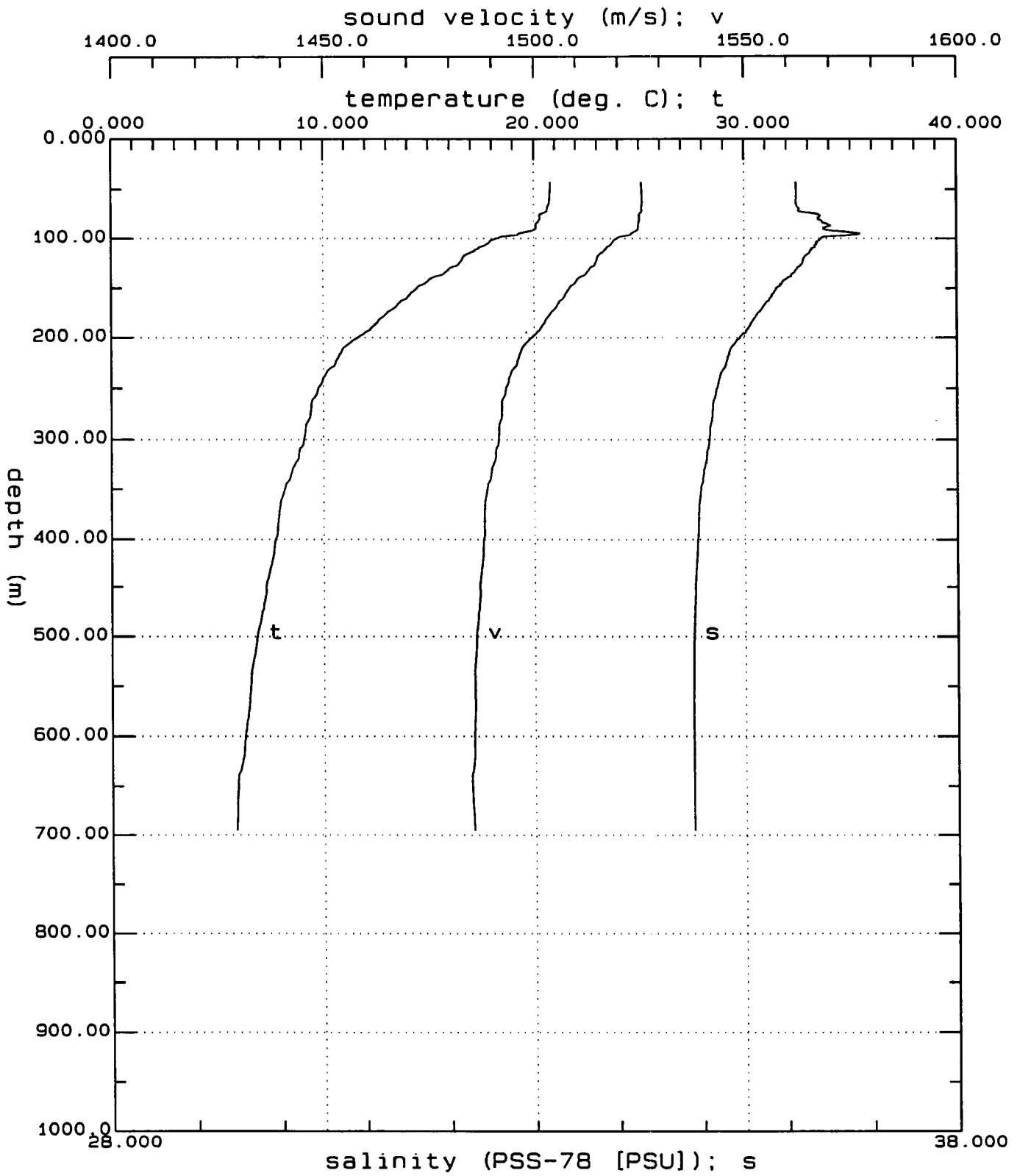


09-096.CNV: Gulfcet Cruise 04

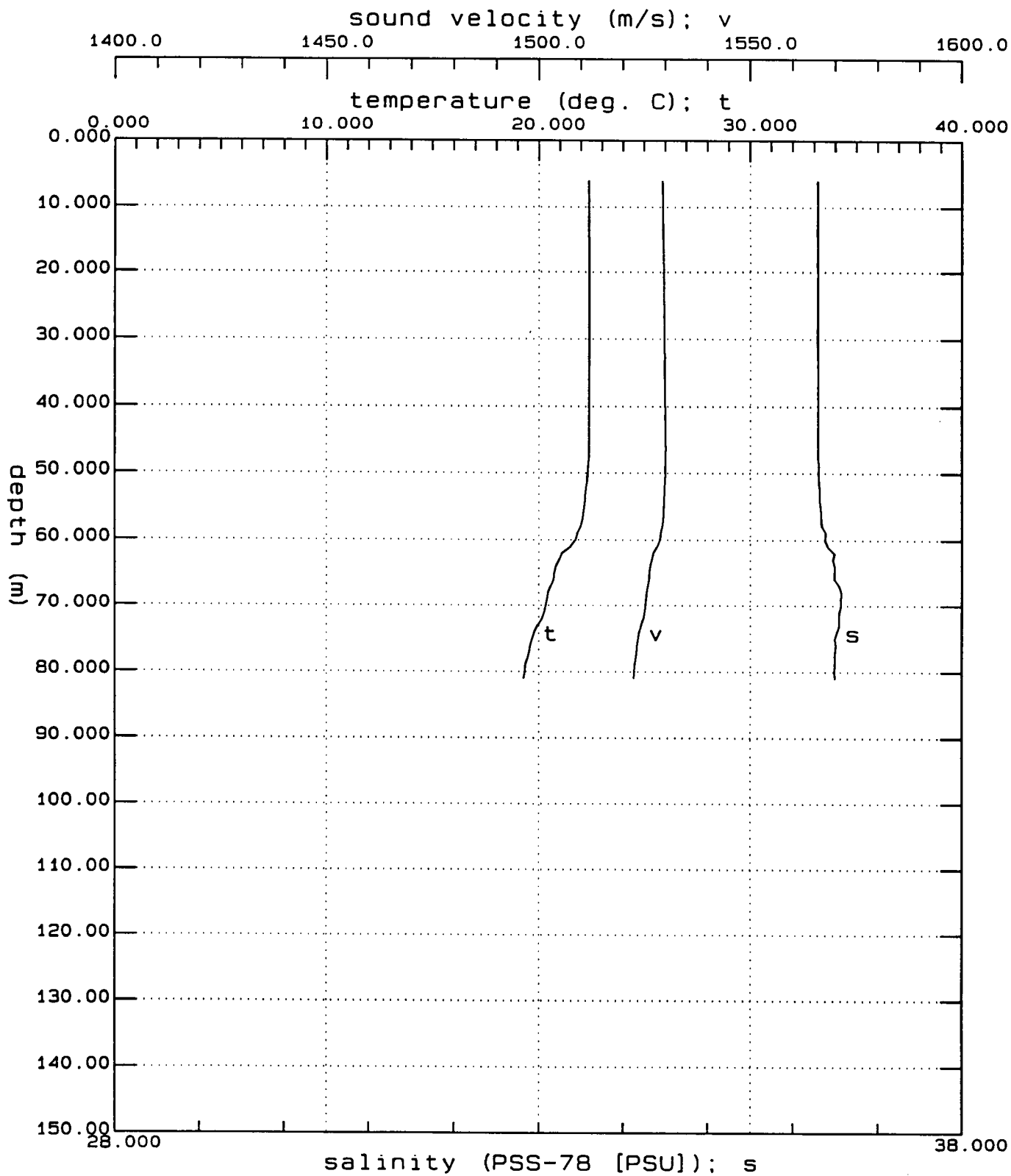




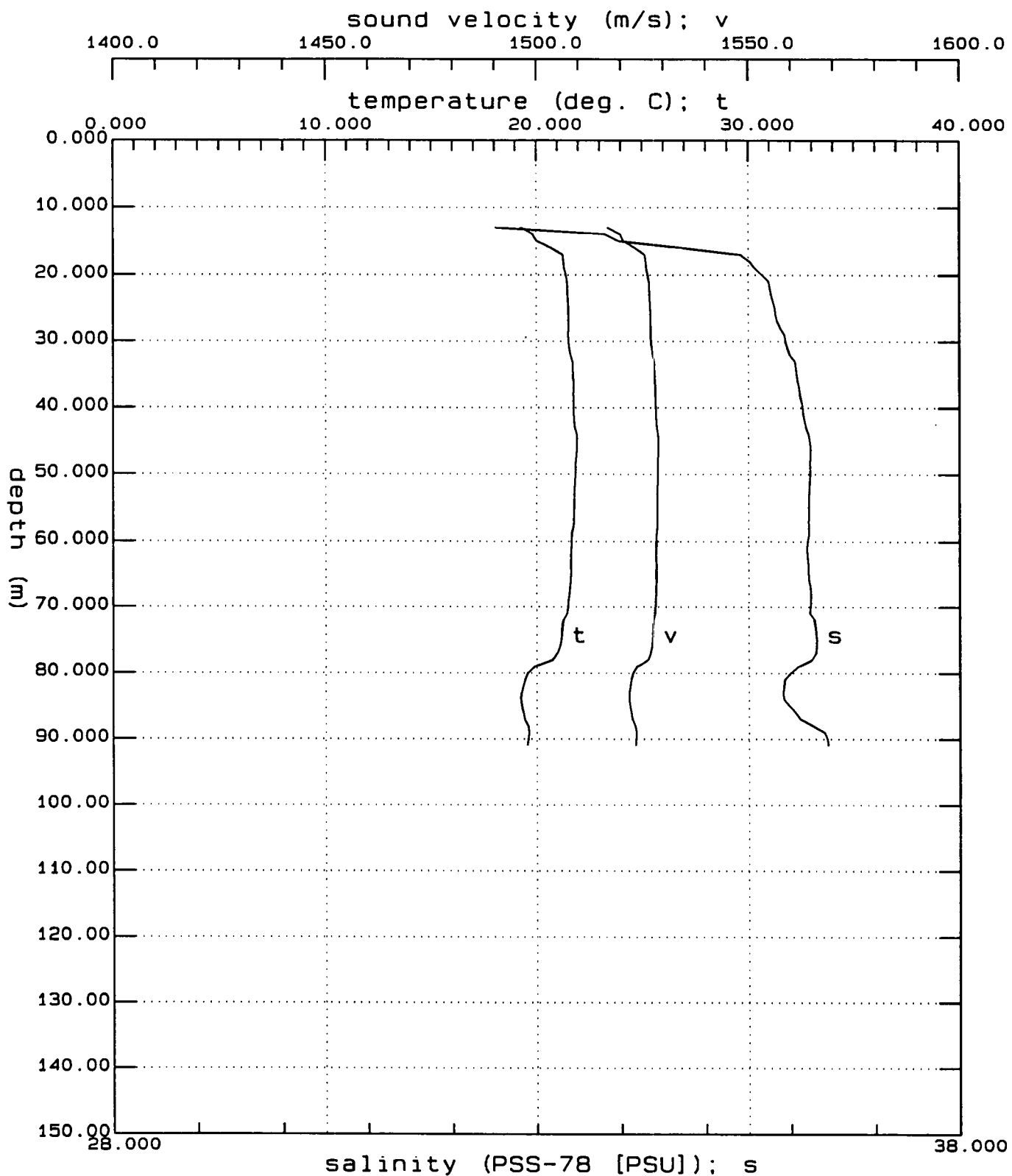
10-097.CNV: Gulfcet Cruise 04



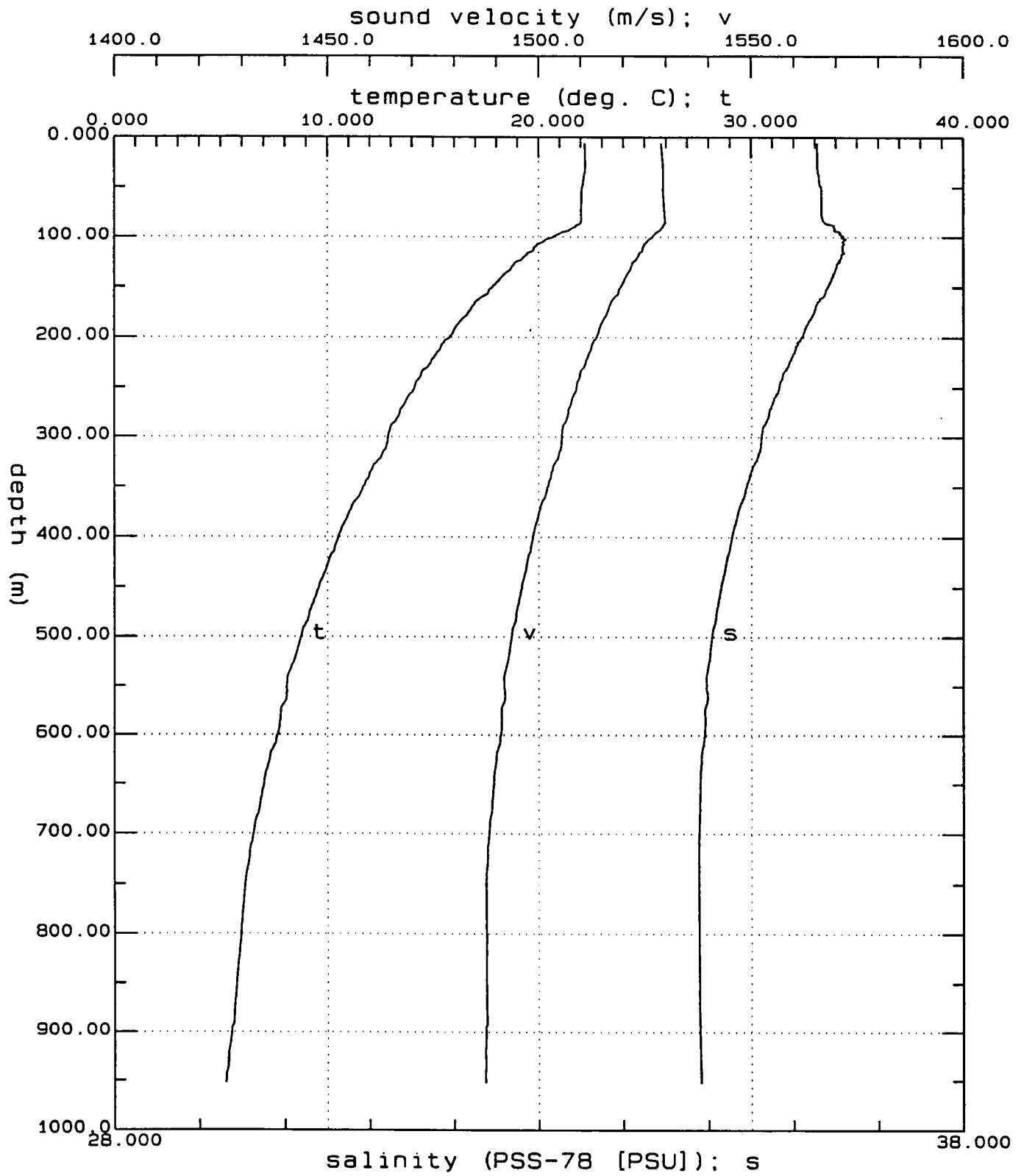
10-100.CNV: Gulfcet Cruise 04



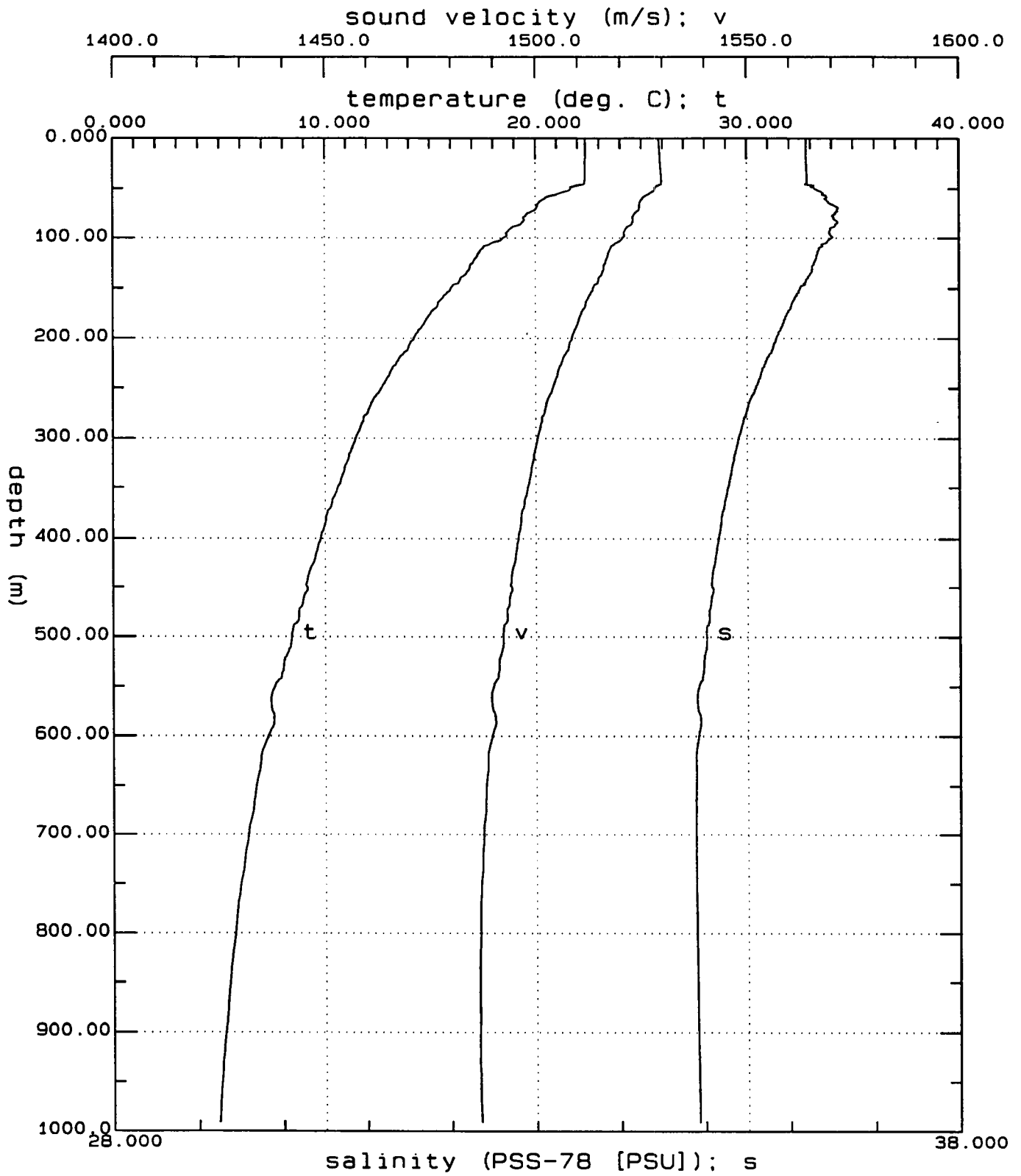
10-105.CNV: Gulfcet Cruise 04



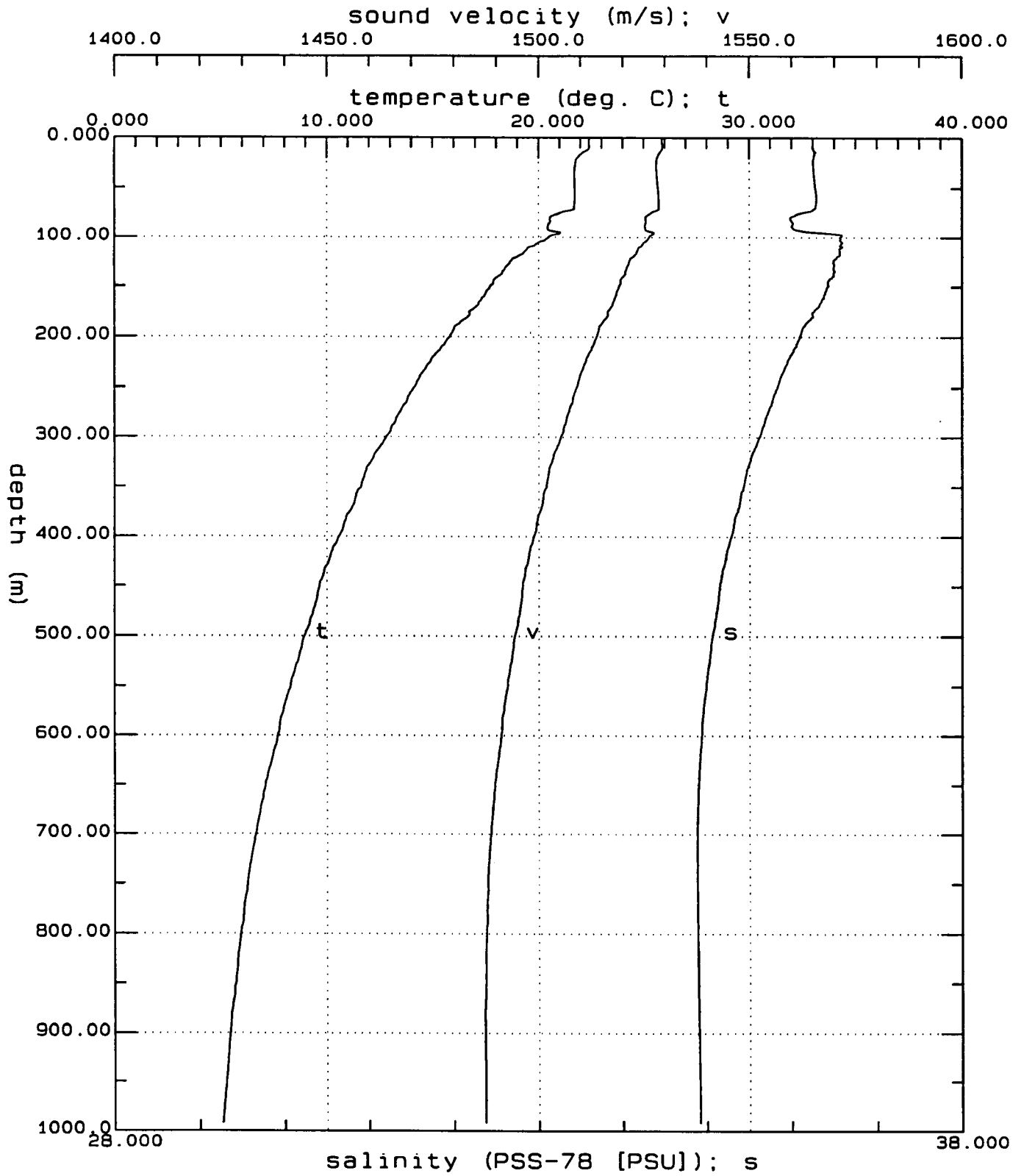
11-106.CNV: Gulfcet Cruise 04



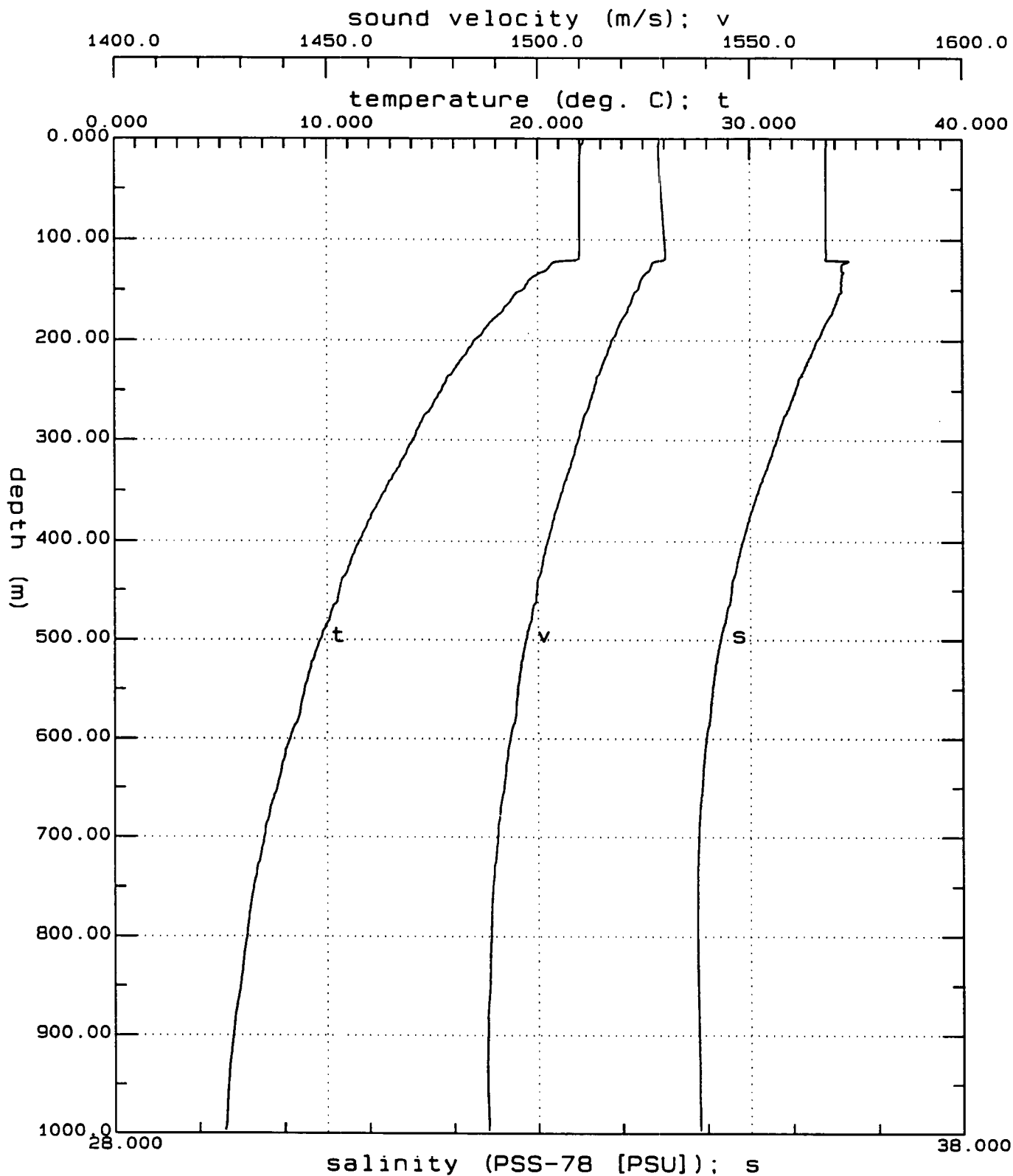
11-112.CNV: Gulfcet Cruise 04



11-115.CNV: Gulfcet Cruise 04

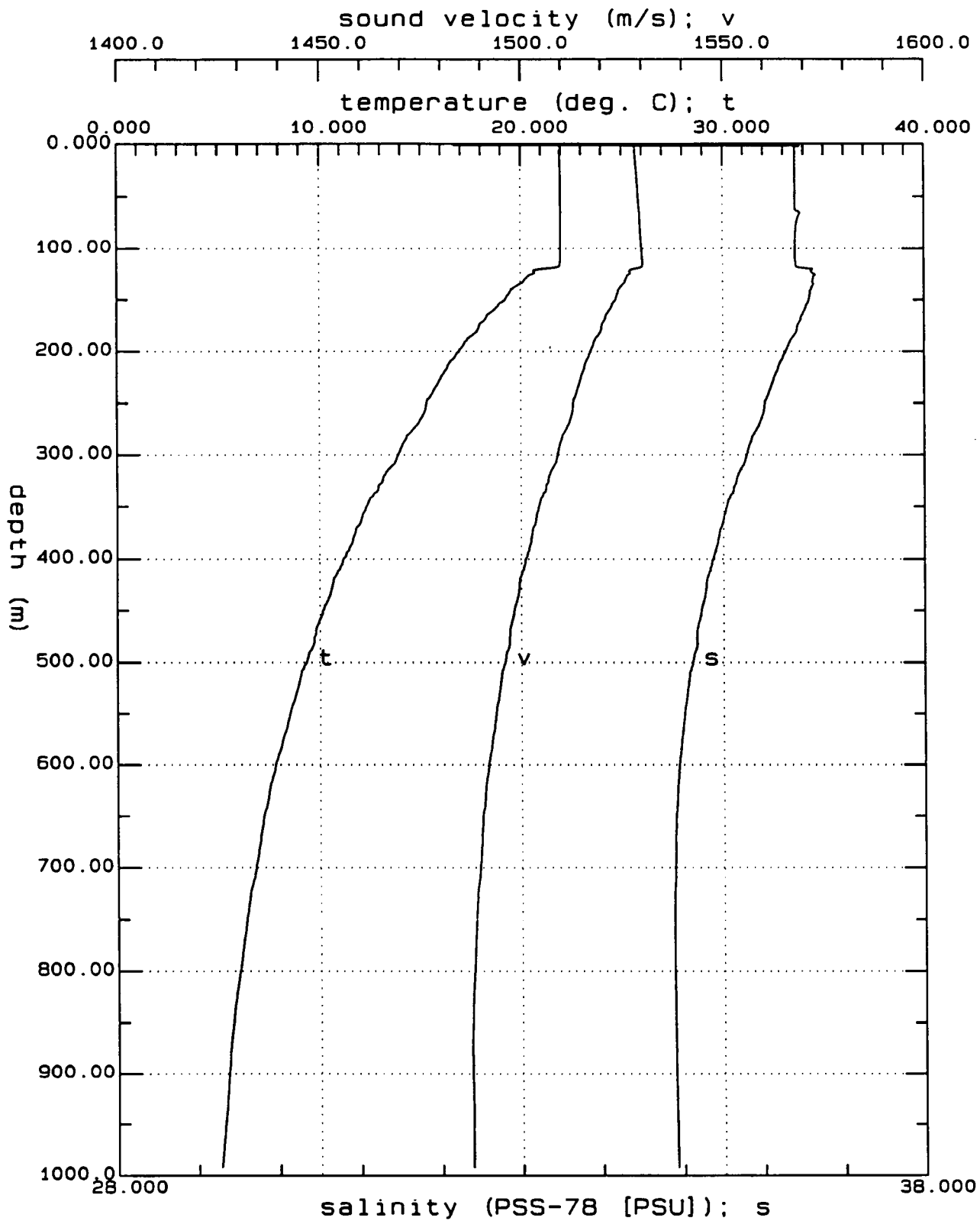


12-116.CNV: Gulfcet Cruise 04

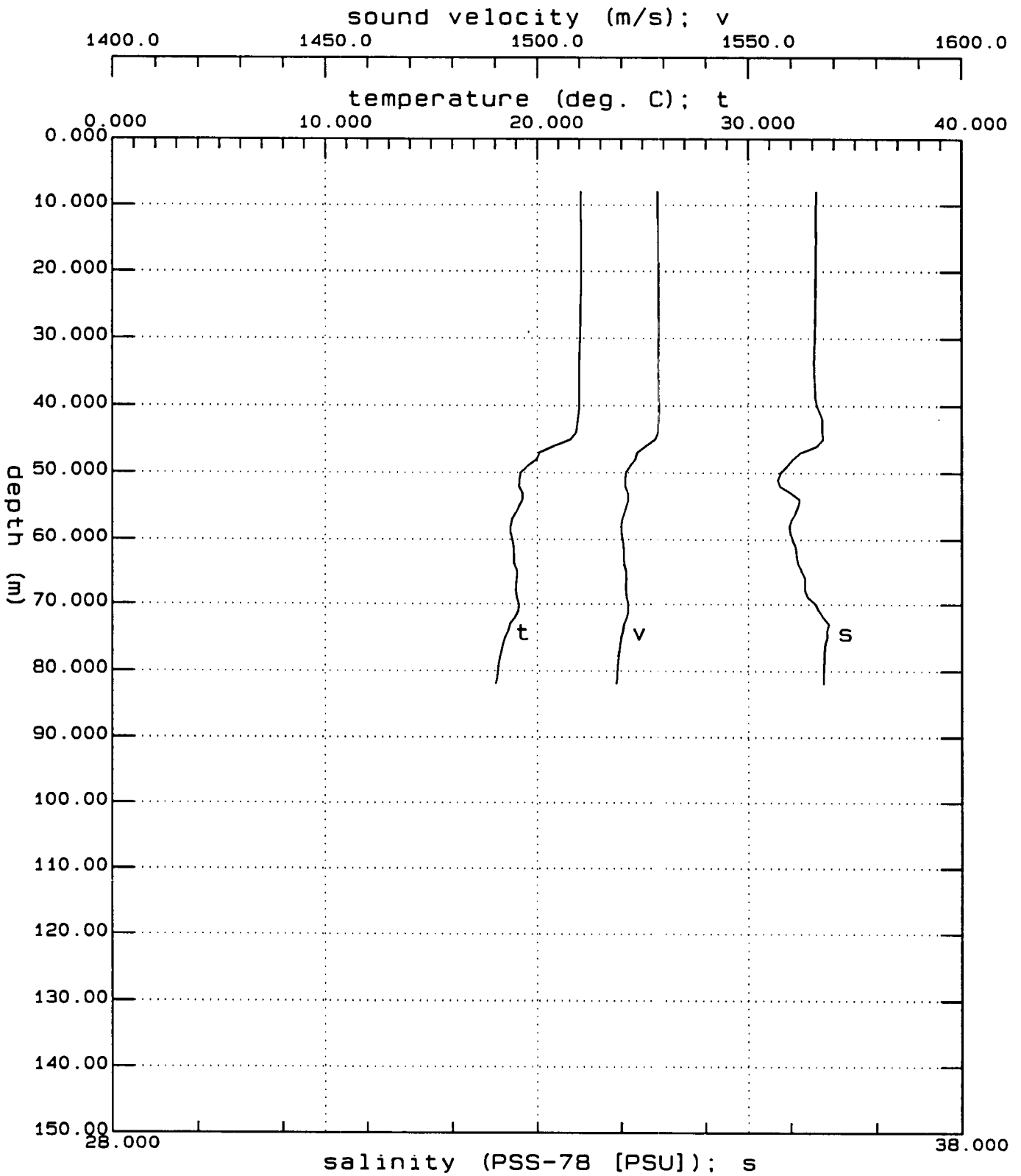


12-117.CNV: Gulfcet Cruise 04

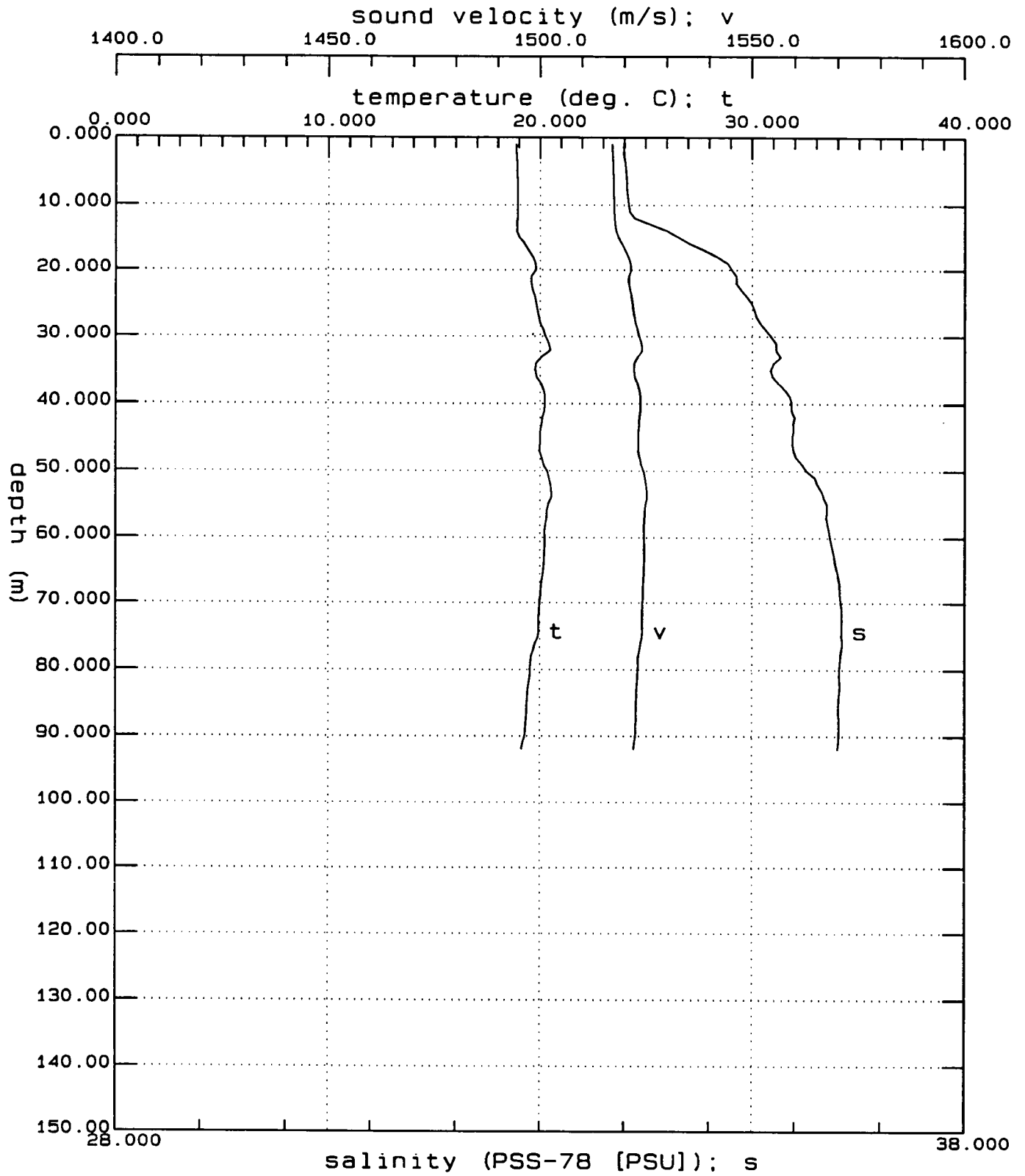




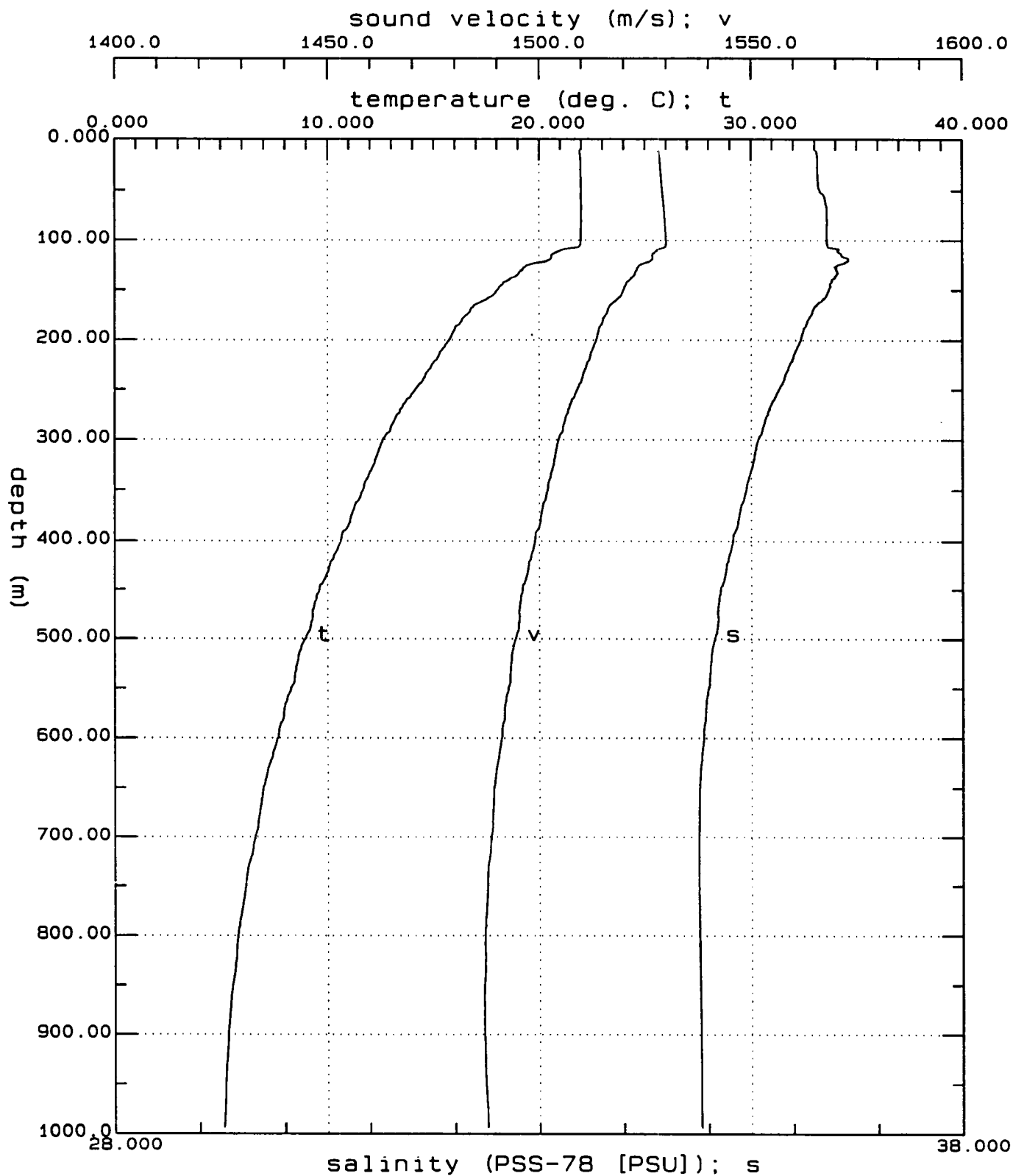
12-119.CNV: Gulfcet Cruise 04



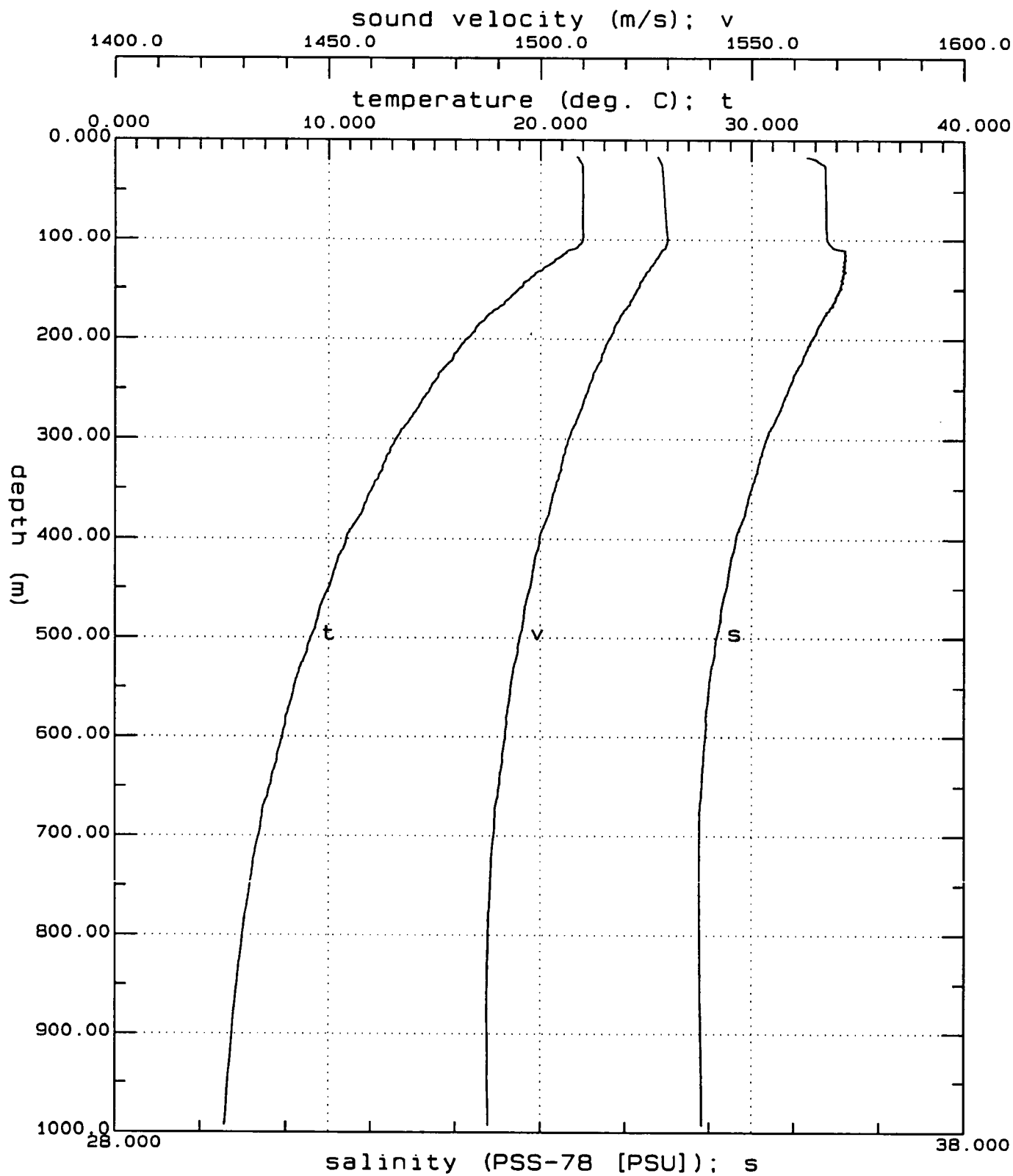
12-125.CNV: Gulfcet Cruise 04



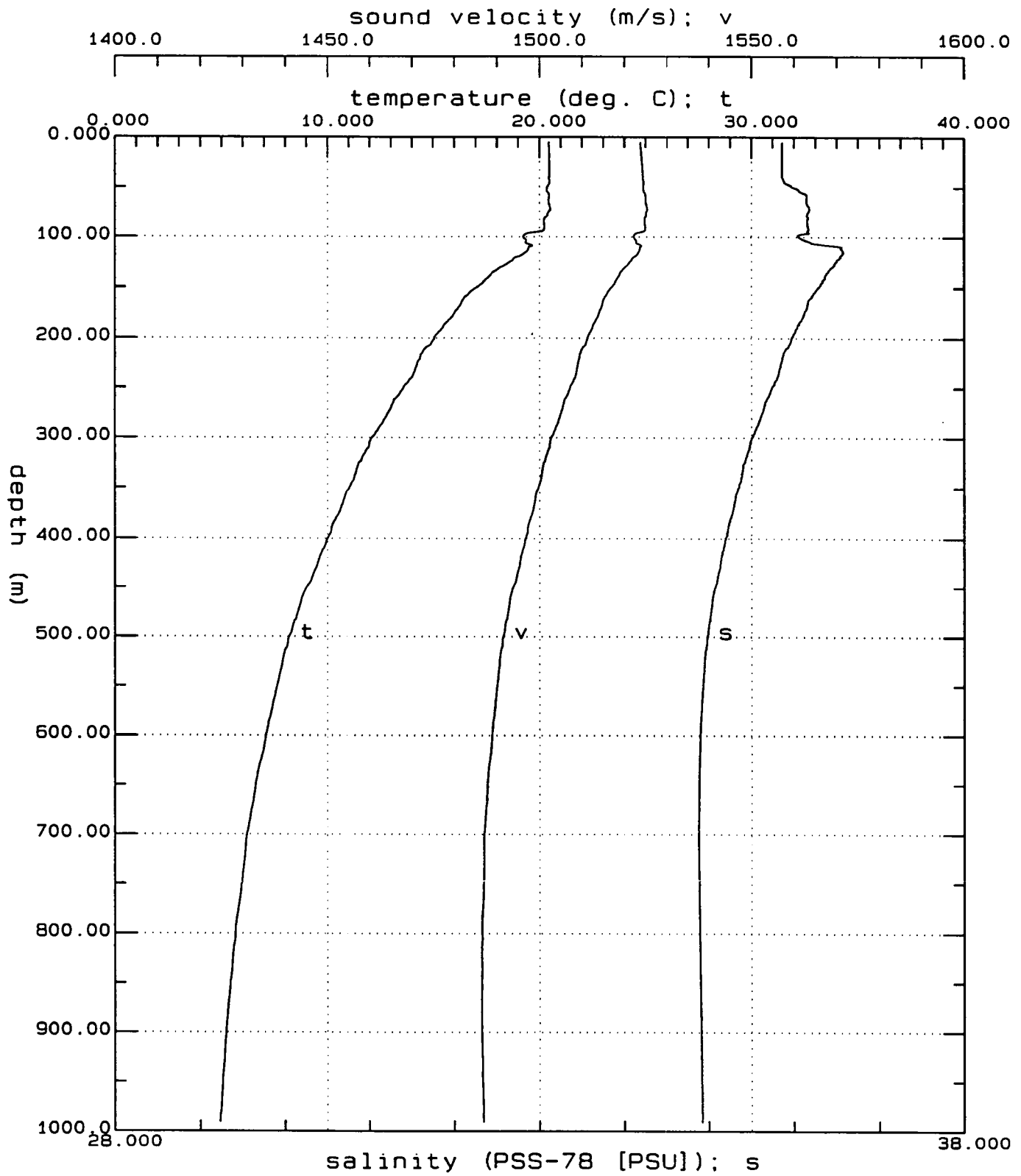
13-126.CNV: Gulfcet Cruise 04



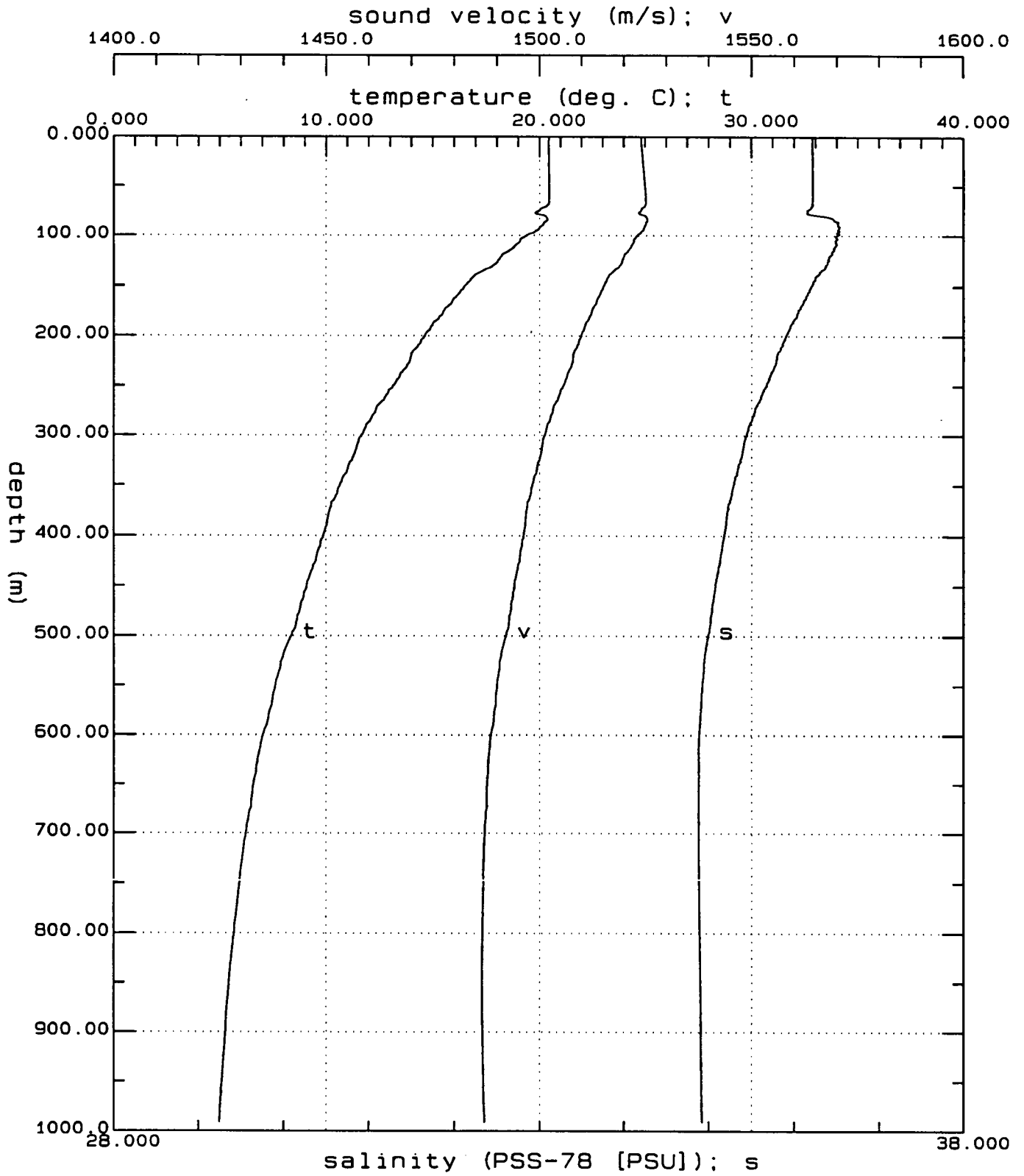
13-133.CNV: Gulfcet Cruise 04



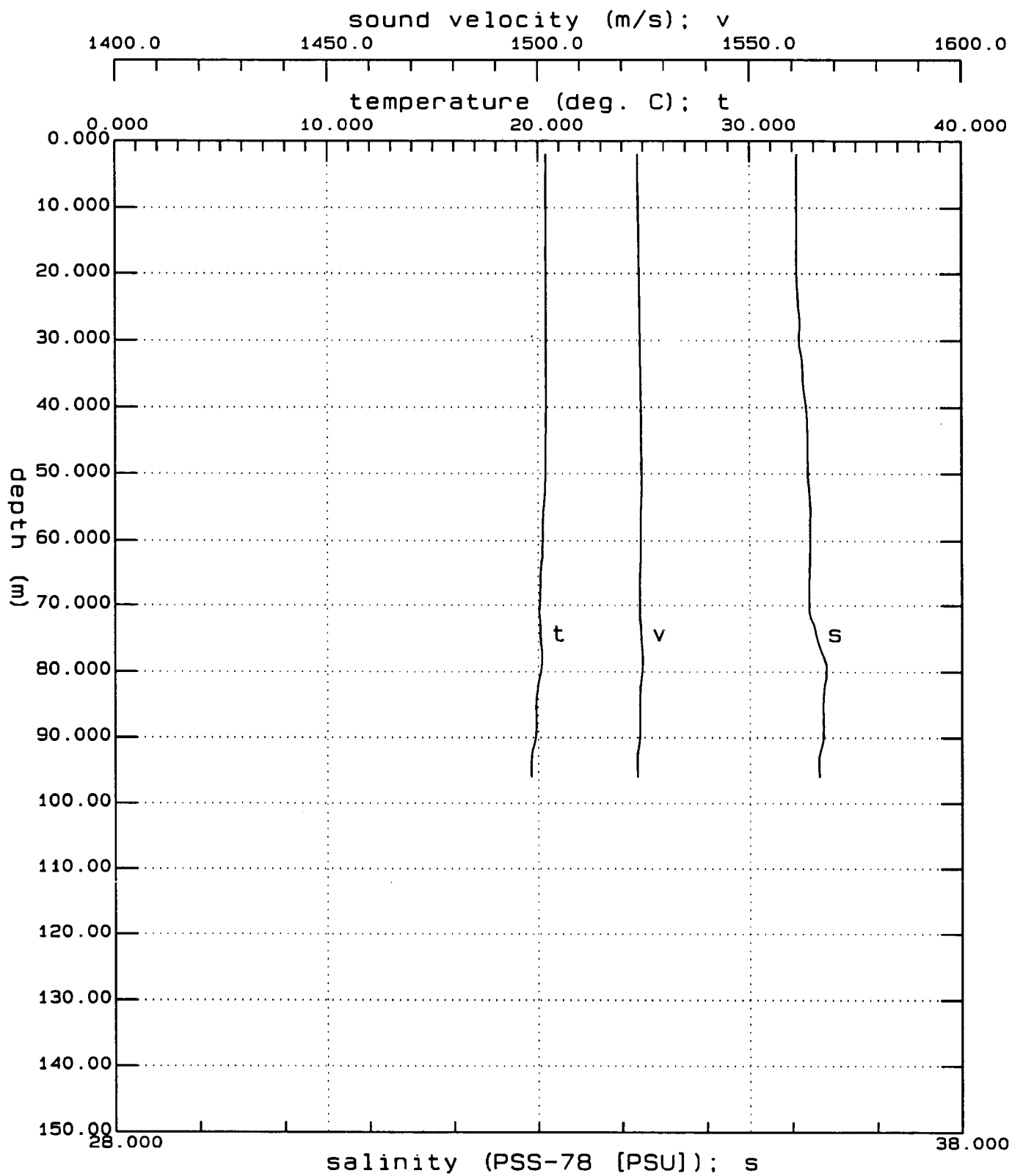
13-134.CNV: Gulfcet Cruise 04



14-135.CNV: Gulfcet Cruise 04

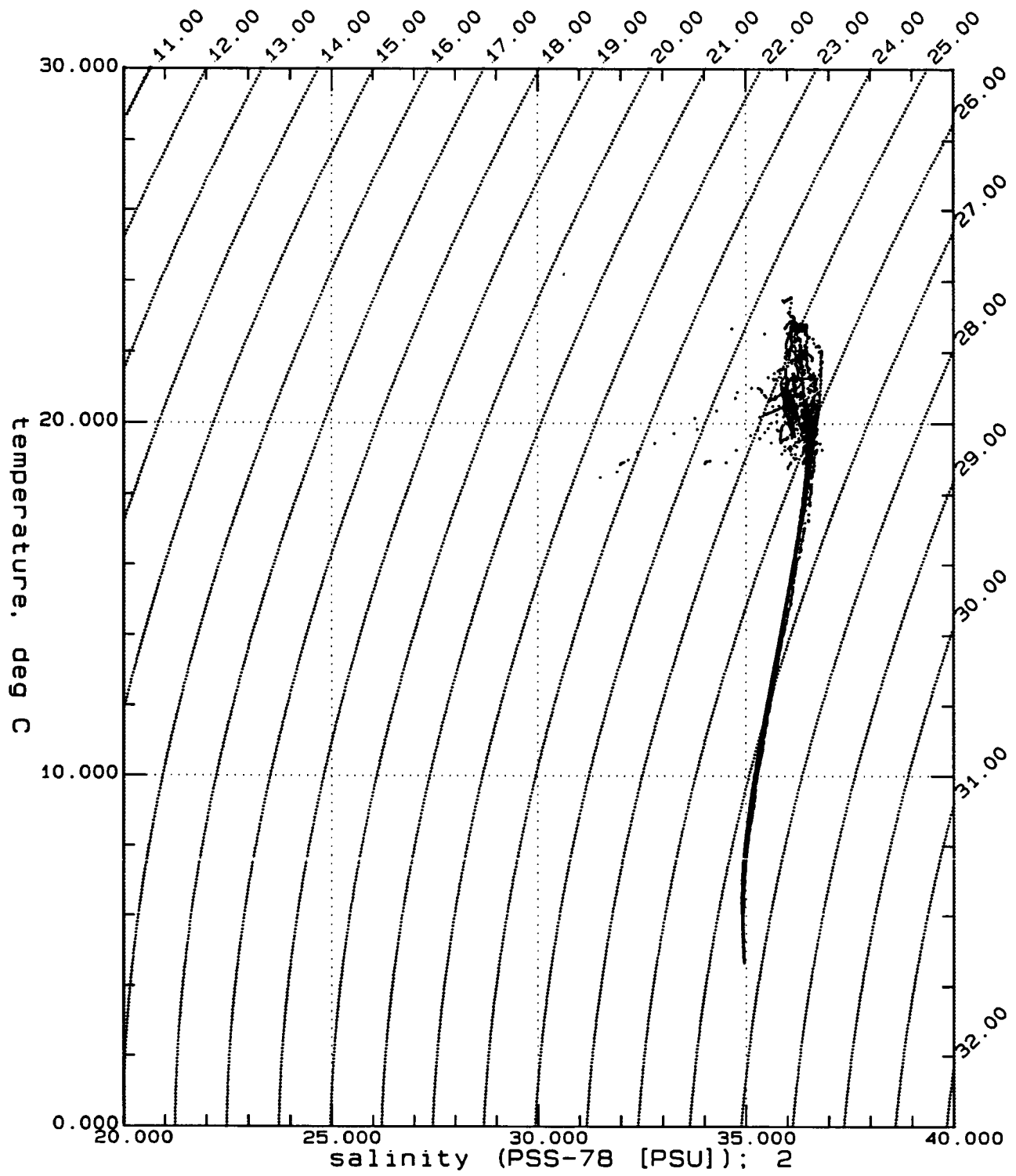


14-136.CNV: Gulfcet Cruise 04

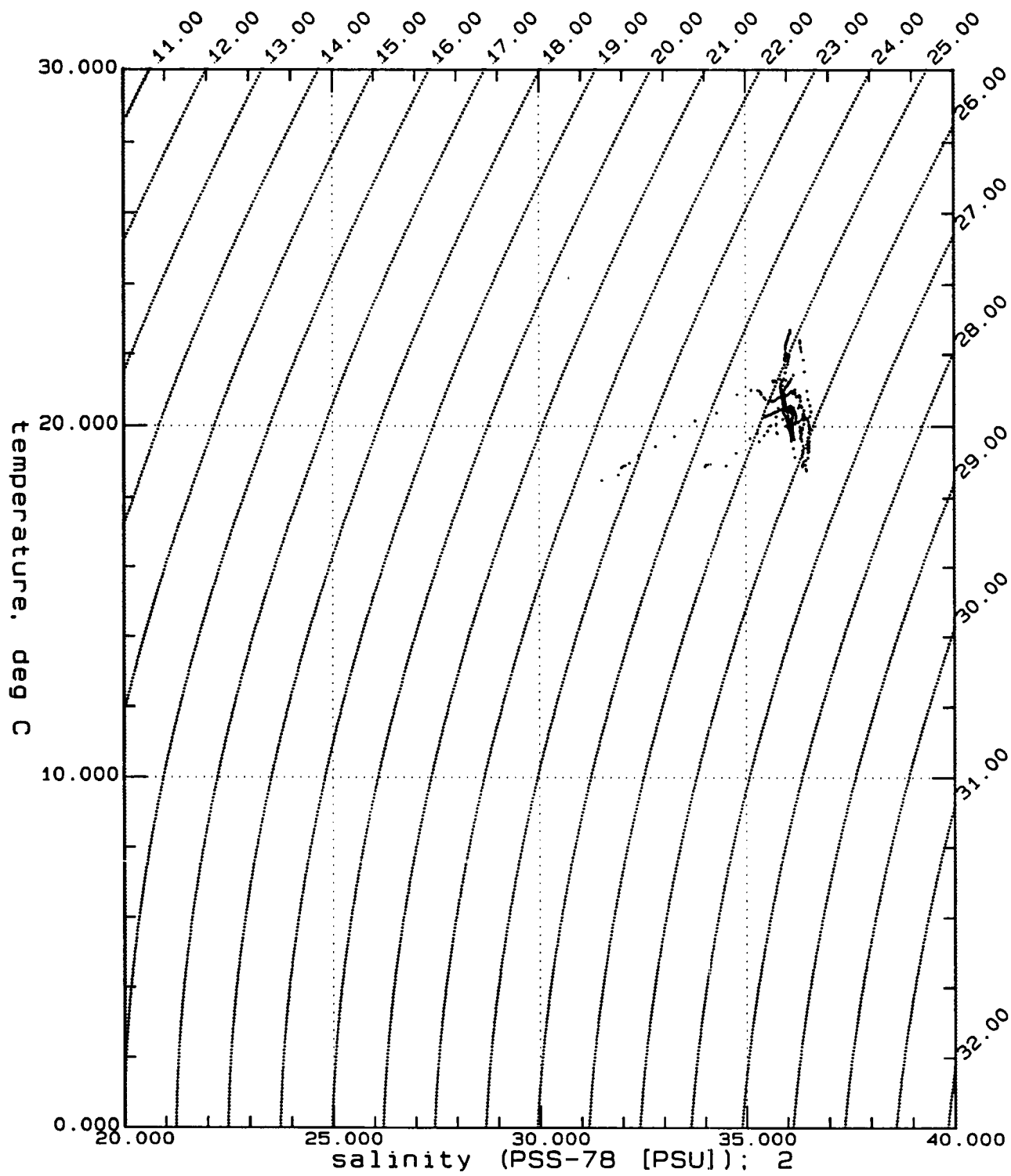


14-143.CNV: Gulfcet Cruise 04

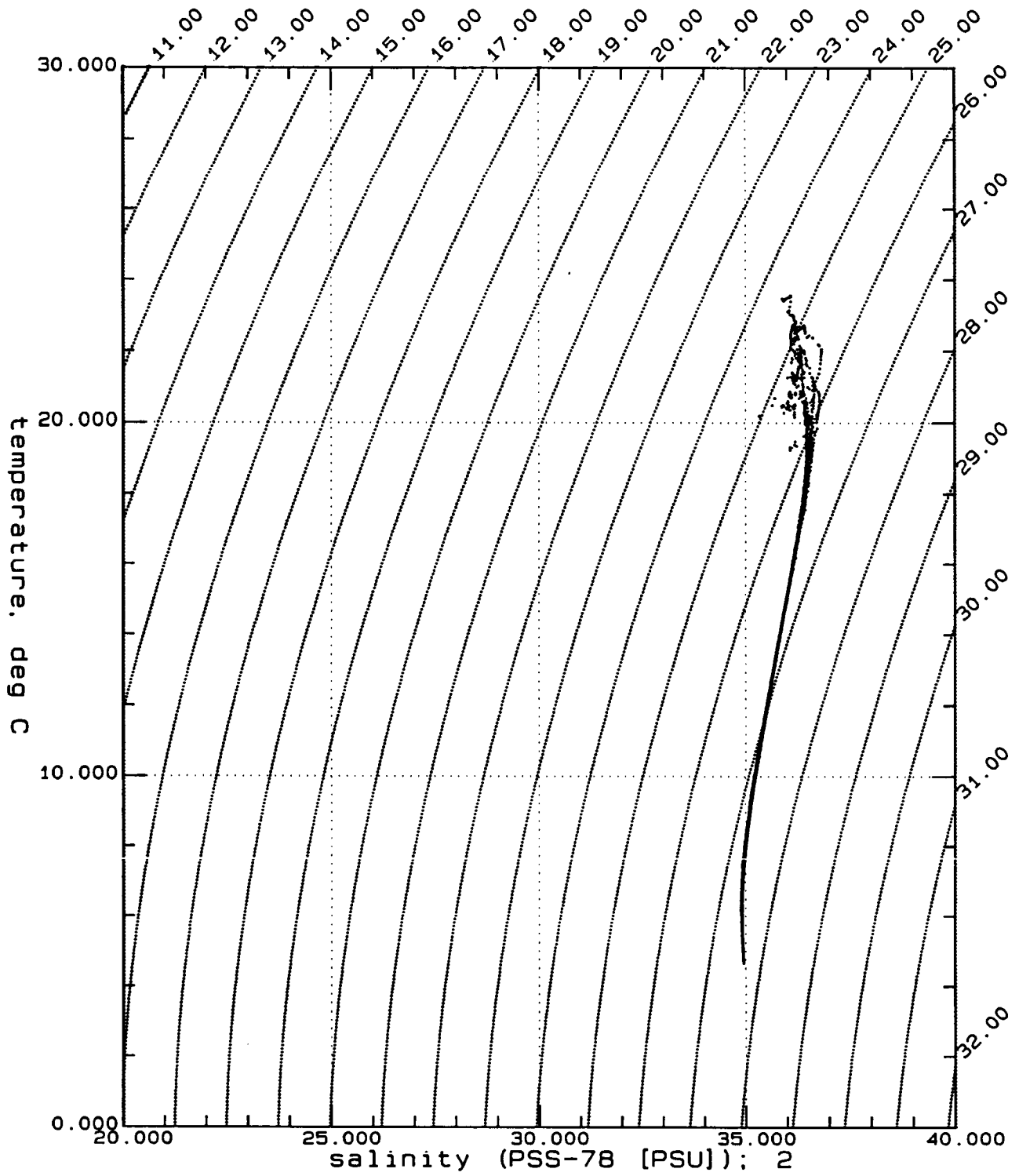




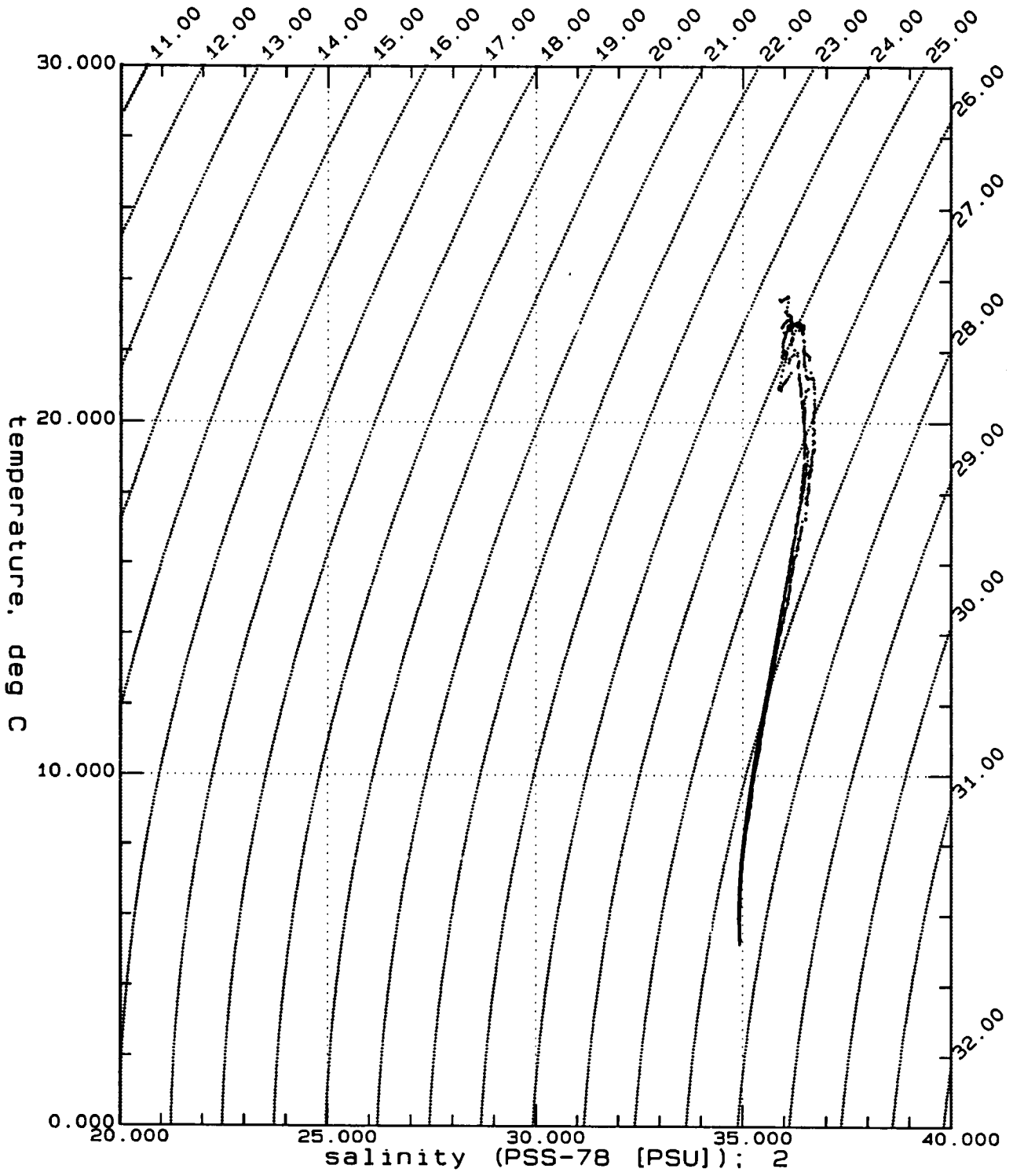
Gulfcet Cruise 04 - All Stations



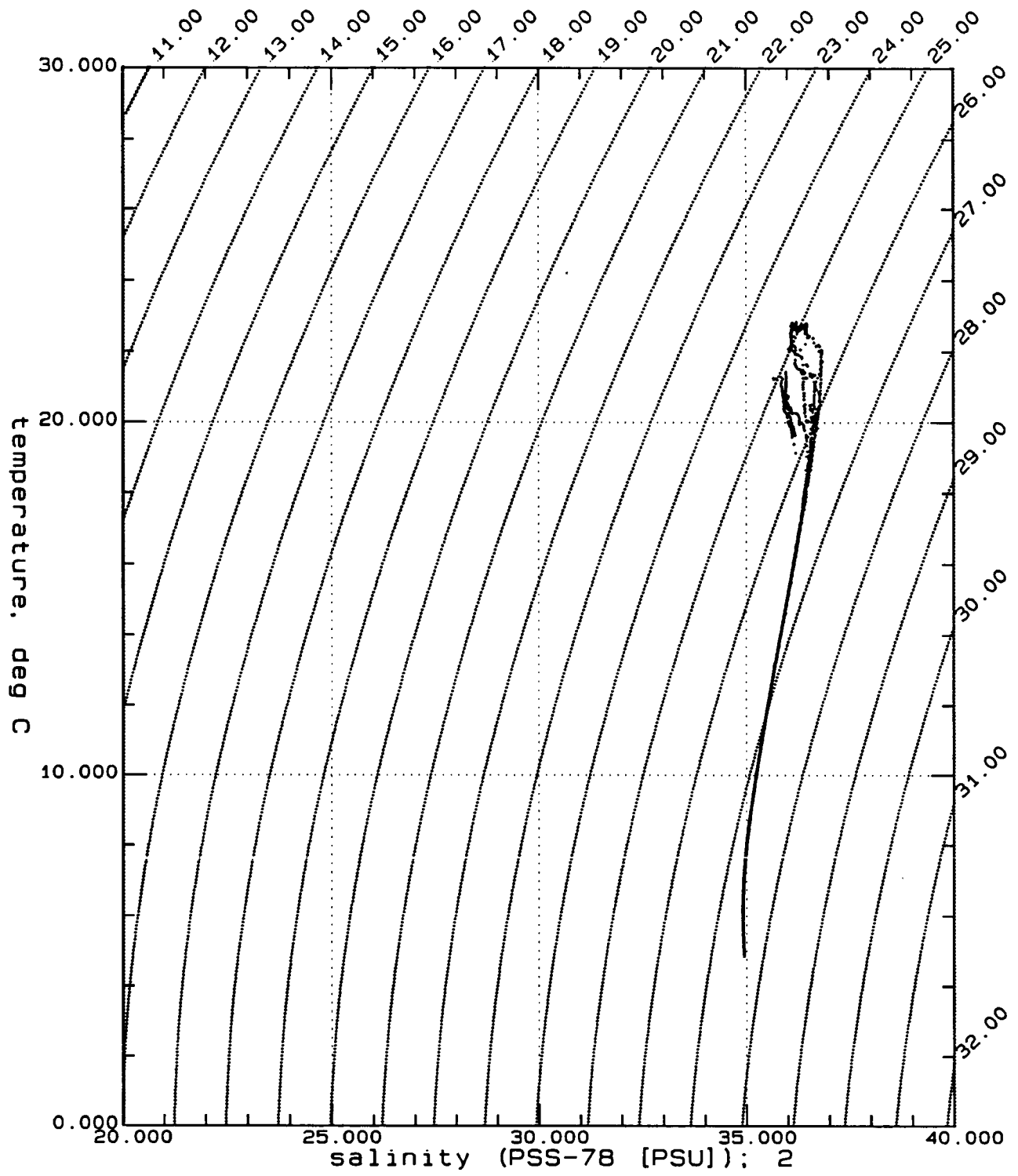
Gulfcet Cruise 04 - Inshore Stations (without lines 11 & 12)



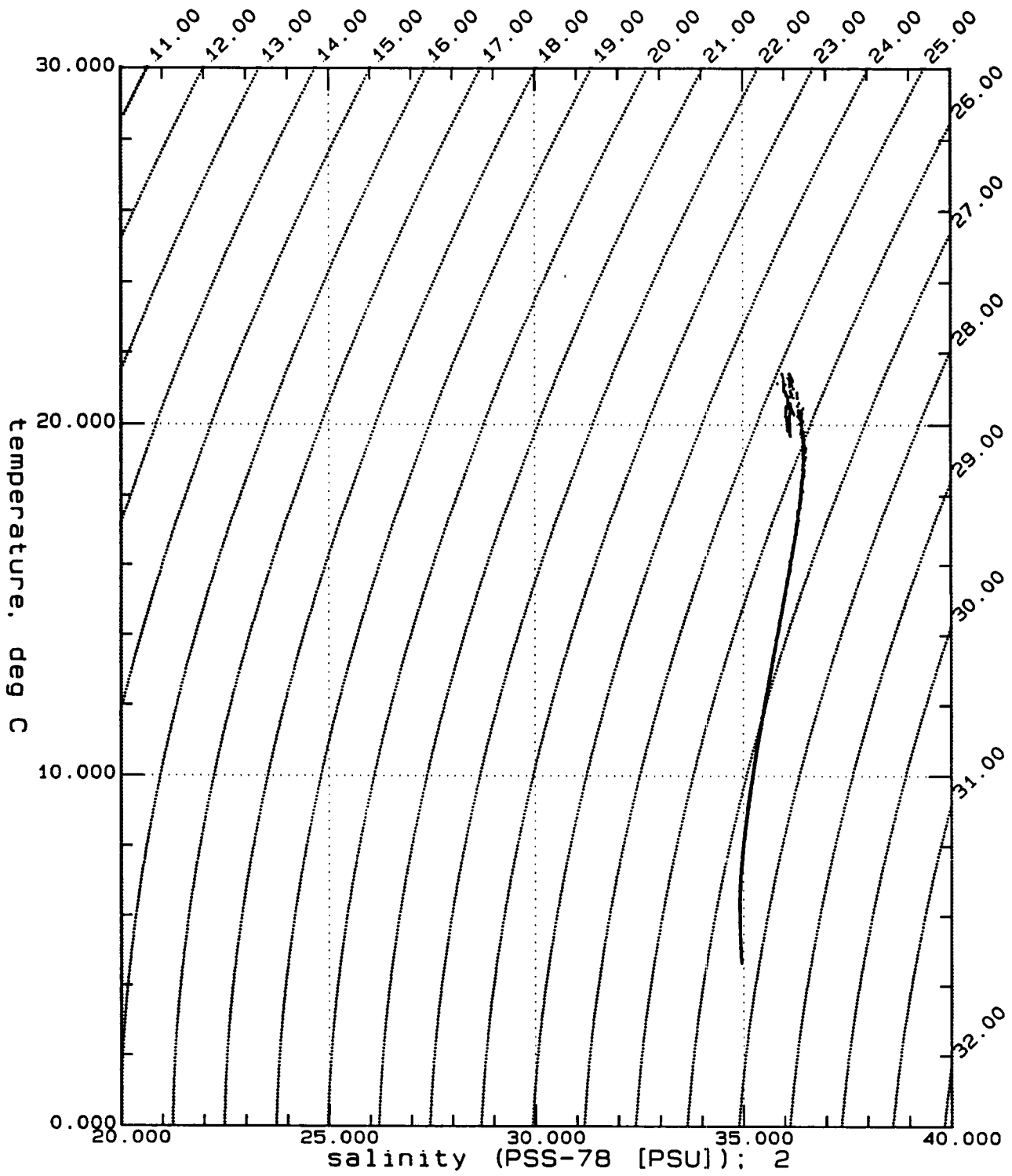
Gulfcet Cruise 04 - Offshore Stations



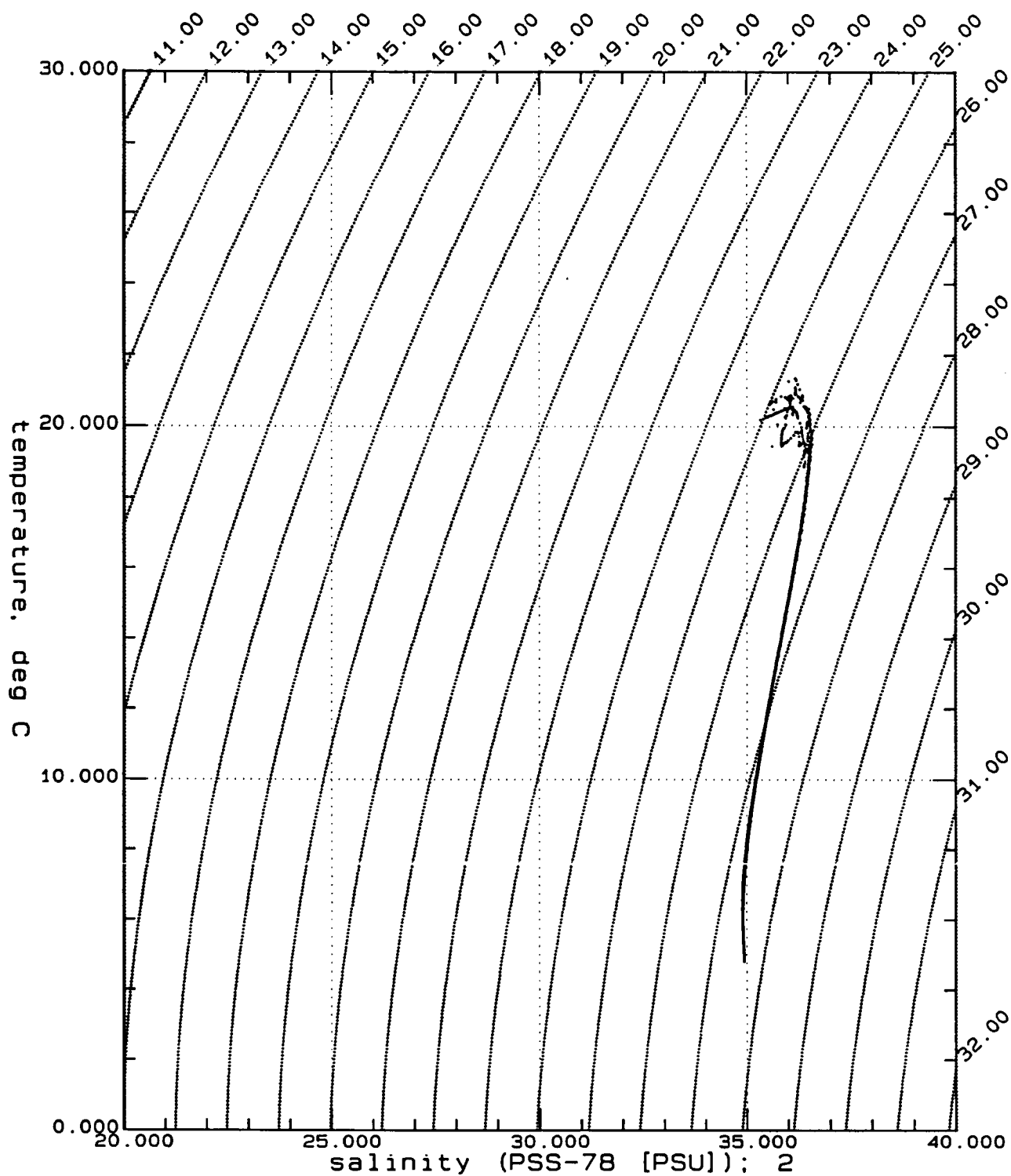
Gulfcet Cruise 04 - Lines 01 and 02



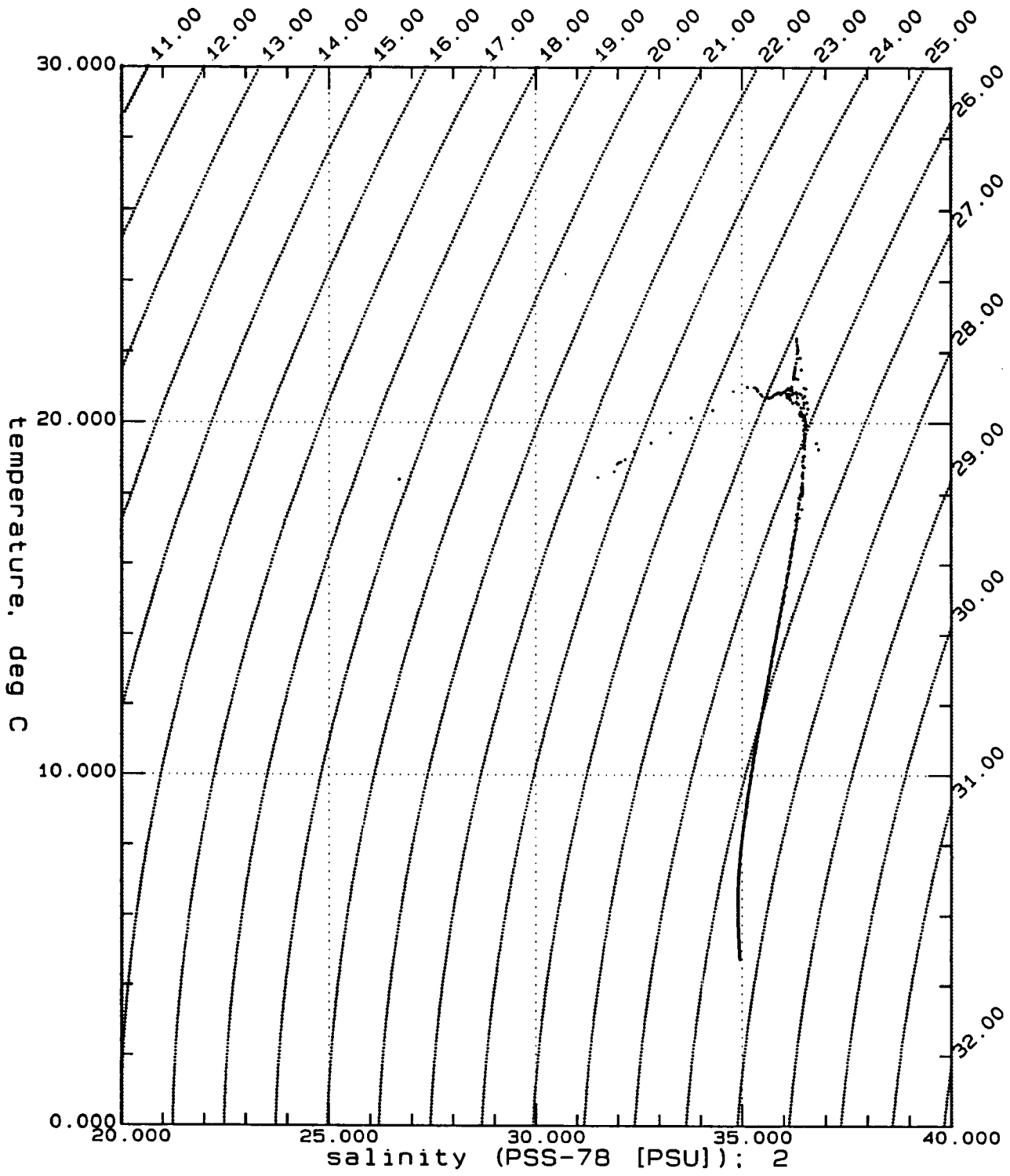
Gulfcet Cruise 04 - Lines 03 and 04



Gulfcet Cruise 04 - Lines 05 and 06

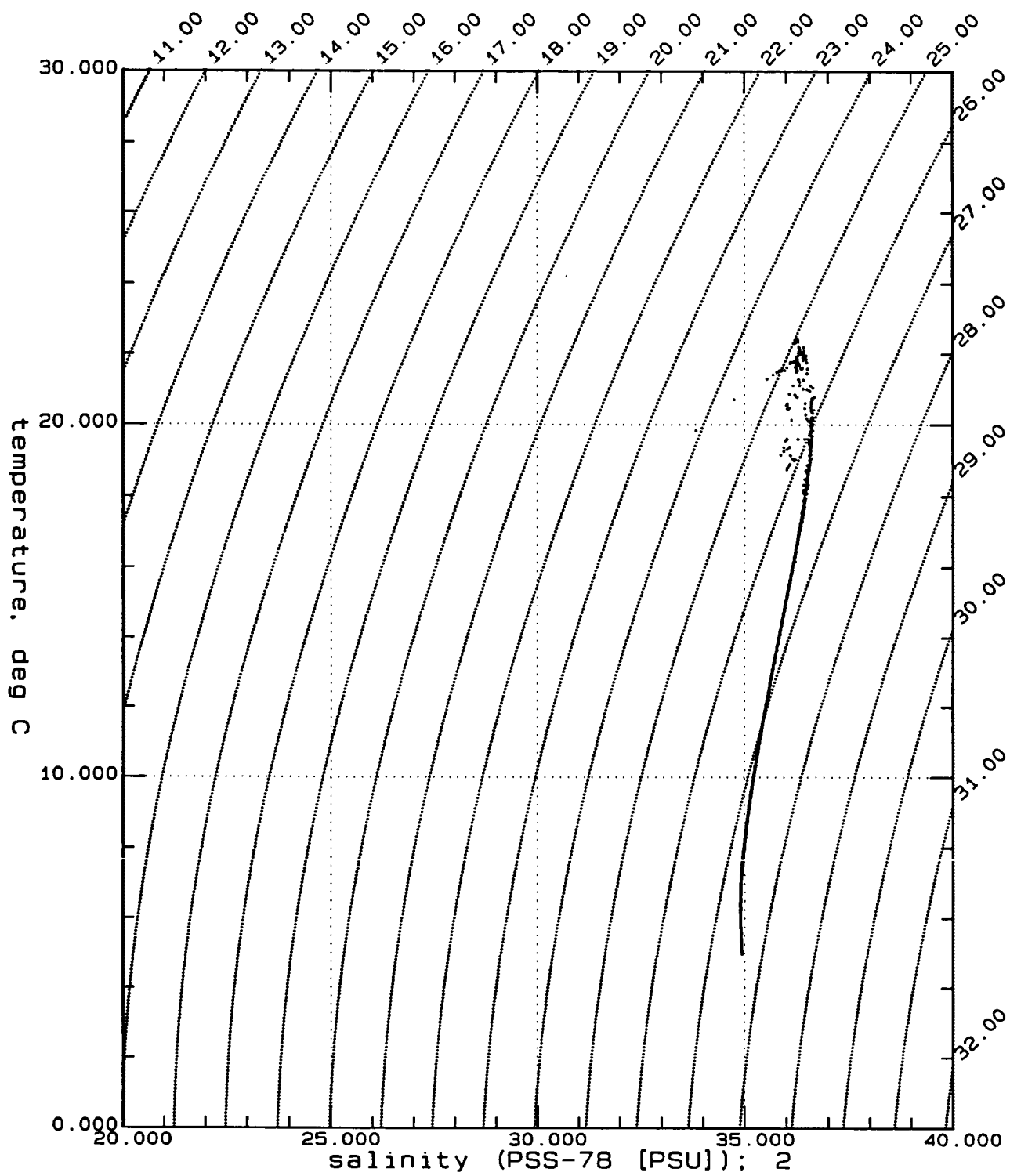


Gulfcet Cruise 04 - Lines 07 and 08

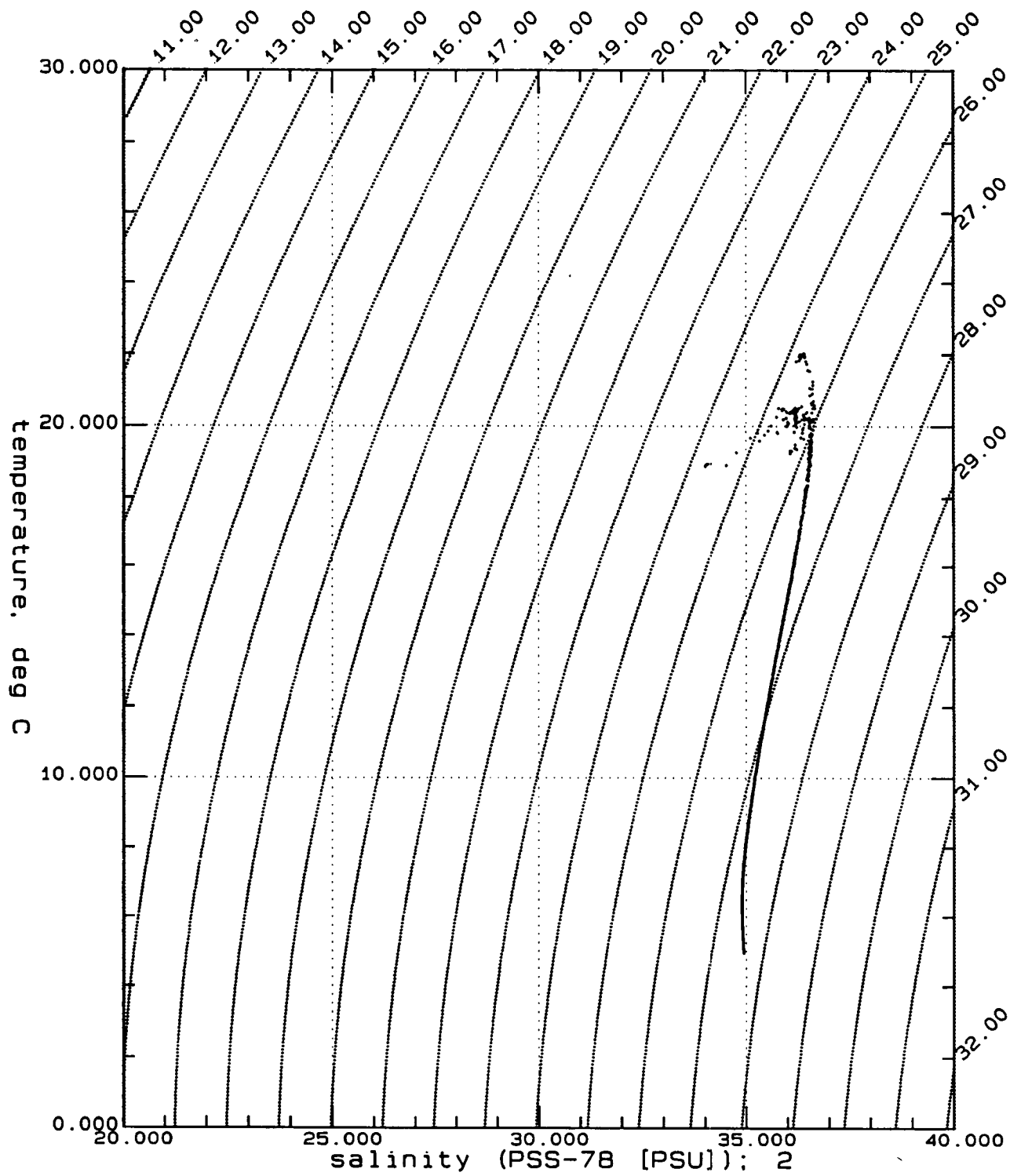


Gulfcet Cruise 04 - Lines 09 and 10



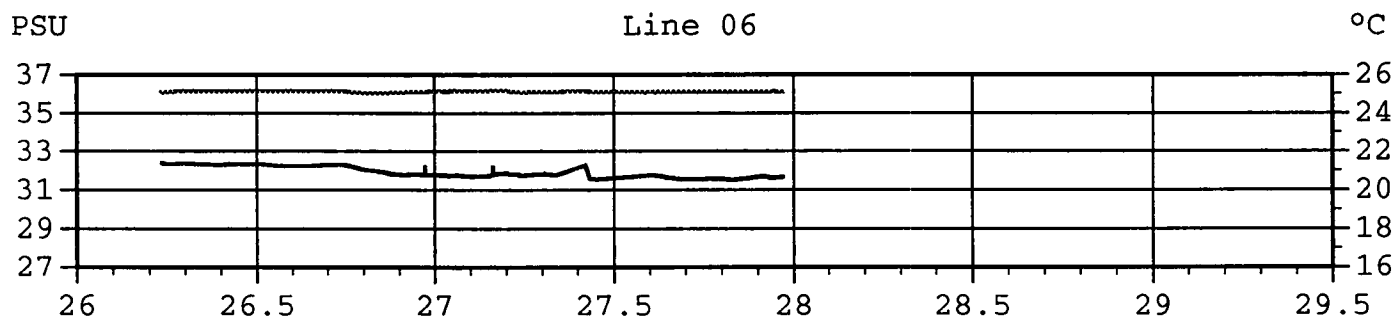
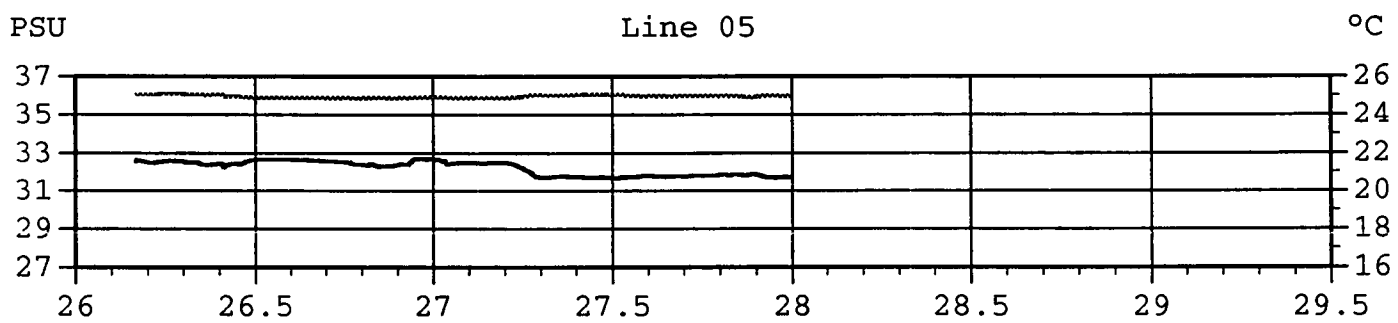
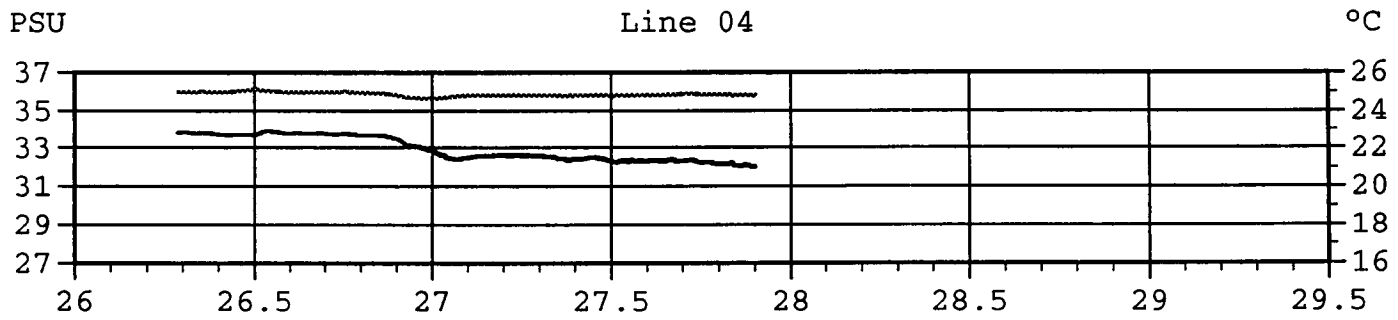
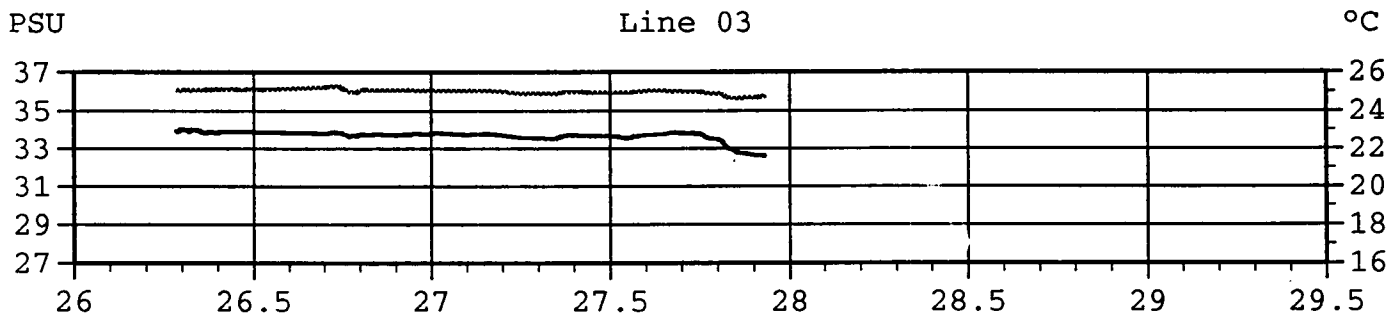
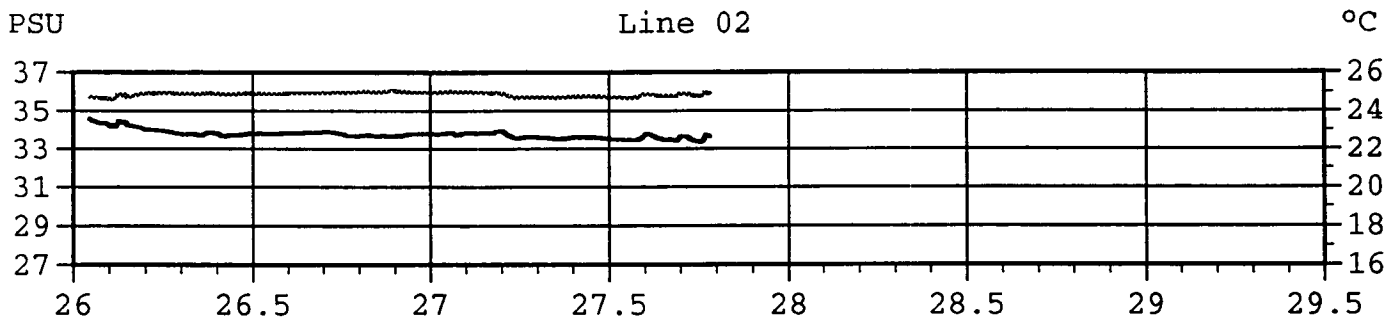


Gulfcet Cruise 04 - Lines 11 and 12



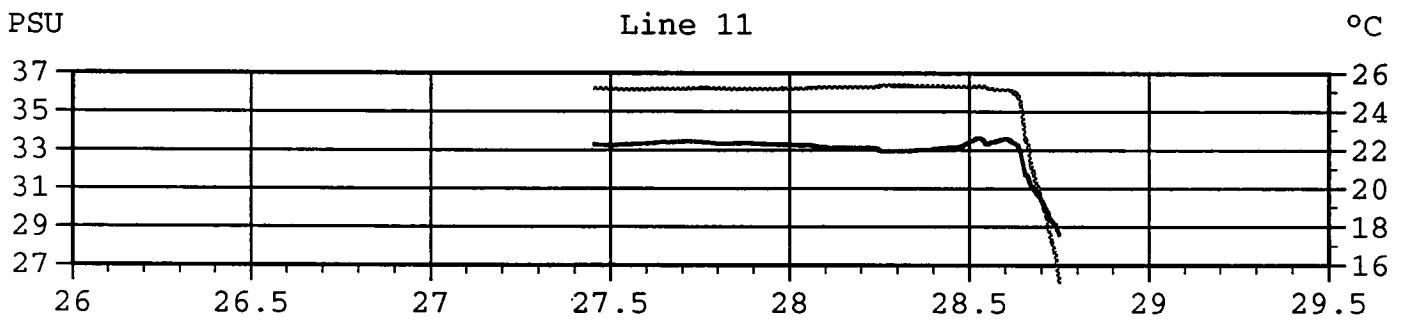
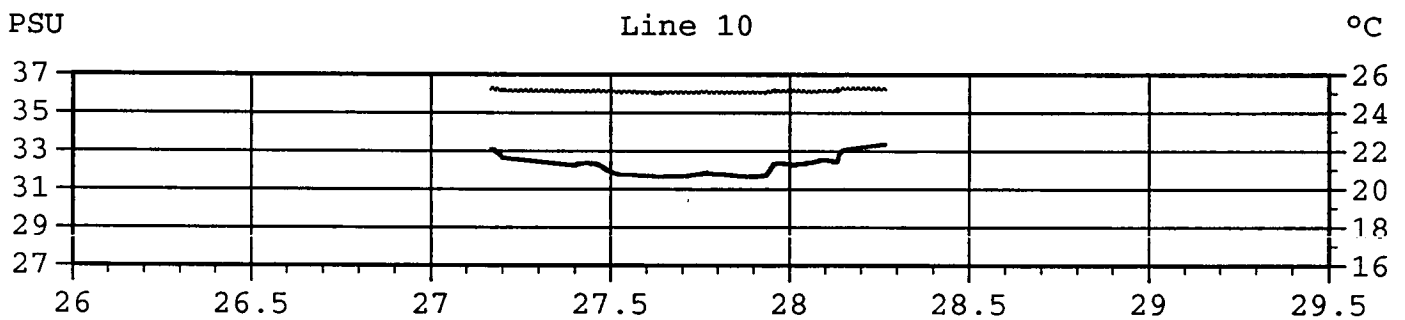
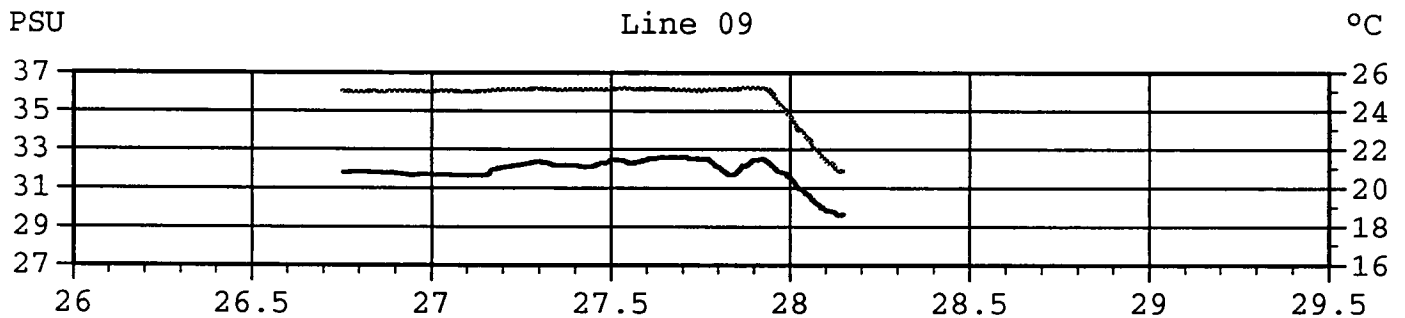
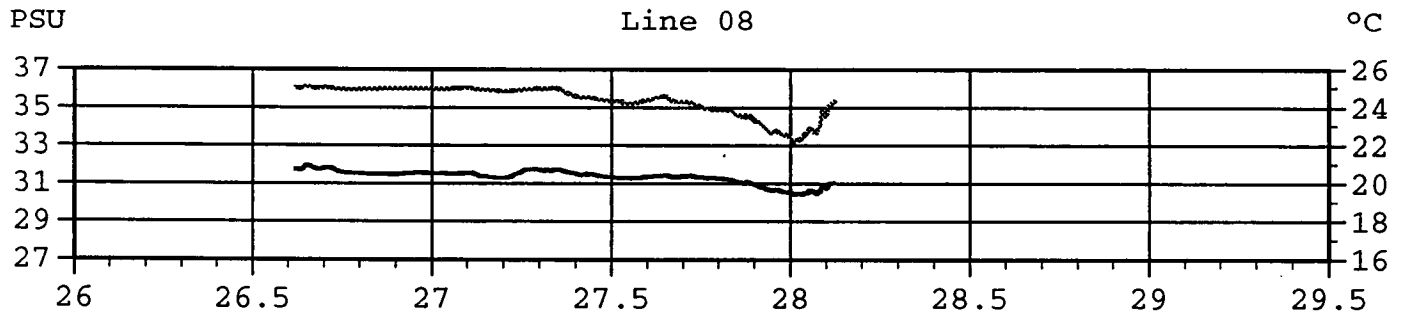
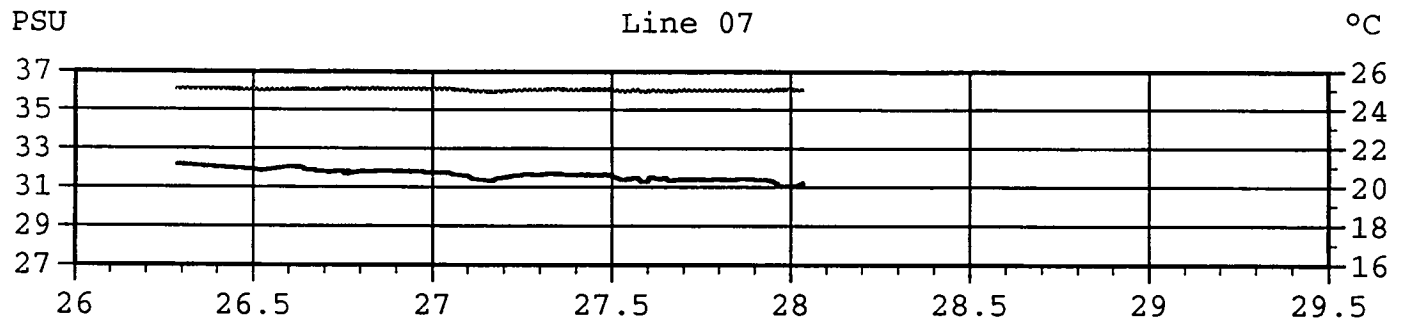
Gulfcet Cruise 04 - Lines 13 and 14

**CONTINUOUSLY RECORDING DATA:**  
**- PLOTS OF TEMPERATURE AND SALINITY**



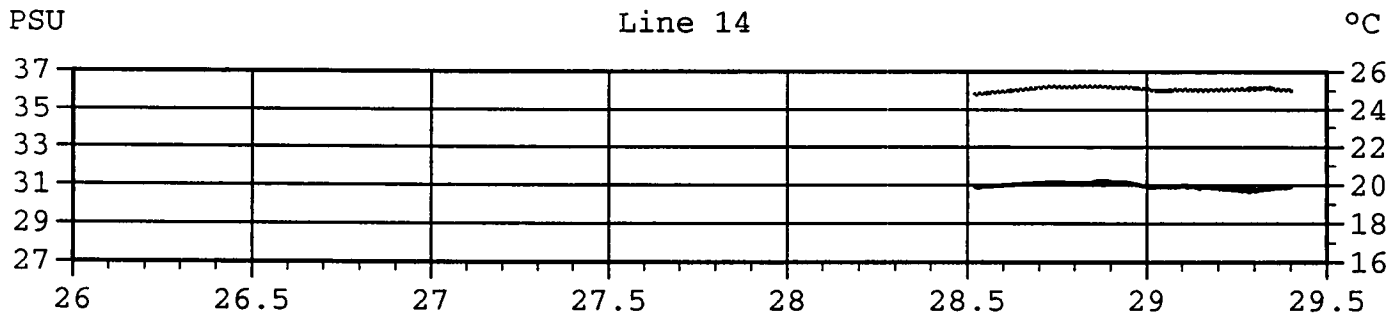
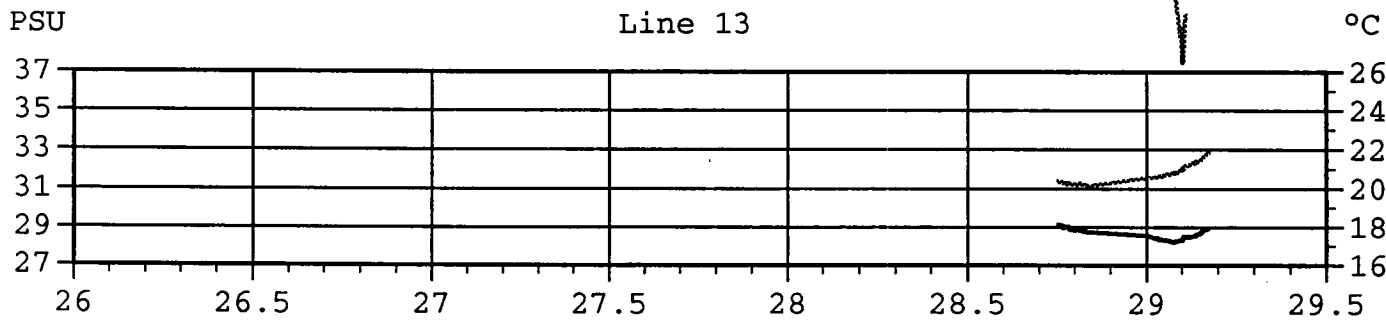
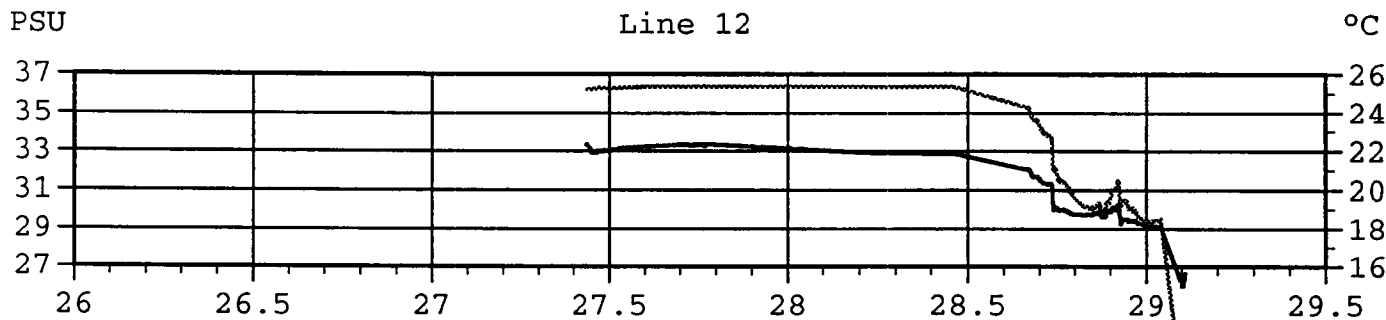
Salinity

Temperature



Salinity

Temperature



Salinity

Temperature

**SALINITY DATA:**

- DATA SUMMARY TABLE
- CTD SURFACE SALINITY MAP

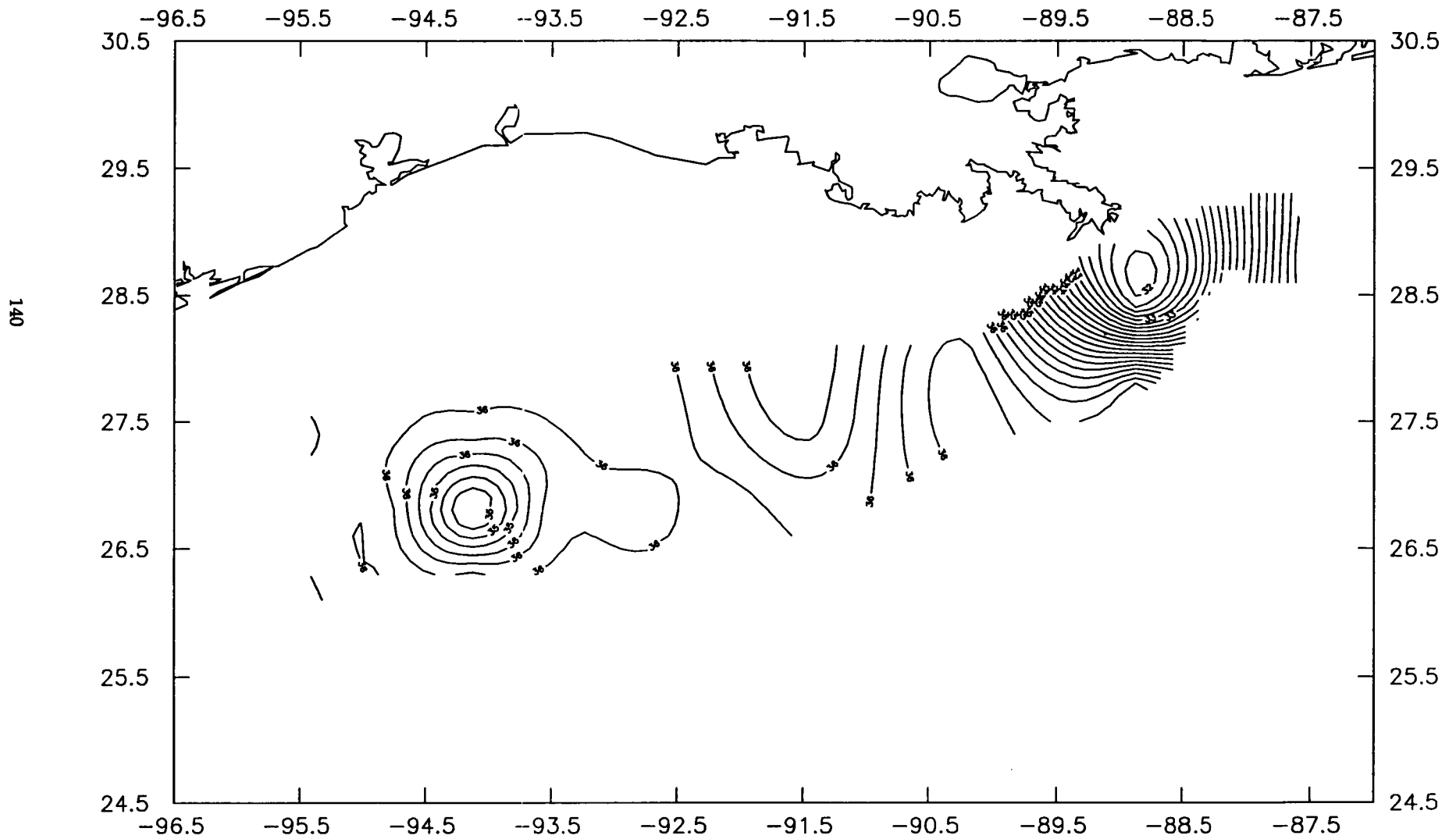
## Cruise 04 Salinity Data

Station	Depth	Bottle Salinity	CTD Salinity	Difference Bottle-CTD	Station	Depth	Bottle Salinity	CTD Salinity	Difference Bottle-CTD
03-030	0.6	36.1907	36.2016	-0.0109	10-097	69.9	36.4714	36.5171	-0.0458
03-030	10.6	36.1808	36.1941	-0.0132	10-097	85	36.4151	36.4392	-0.0241
03-030	20.8	36.1979	36.2027	-0.0048	10-097	101.3	36.3715	36.4296	-0.0581
03-030	30.5	36.2032	36.2077	-0.0045	10-097	151	35.9874	35.9808	0.0066
03-030	40.2	36.2565	36.2448	0.0117	10-097	1000		34.9263	
03-030	50.4	36.3669	36.3571	0.0099	12-125	0.9	25.8531		
03-030	60.4	36.3810	36.3986	-0.0176	12-125	5.7	35.9823		
03-030	70.6	36.3940	36.3958	-0.0018	12-125	10.7	36.2861	36.2902	-0.0041
03-030	89.8	36.3814	36.3964	-0.0150	12-125	20.5	36.2814	36.2887	-0.0073
03-030	100.2	36.3841	36.3970	-0.0129	12-125	30.6	36.2650	36.2766	-0.0116
03-030	149.4	36.3875	36.4041	-0.0166	12-125	40.6	36.3074	36.3193	-0.0120
03-030	1001.7	34.9184	34.9039	0.0145	12-125	50.8	35.8629	35.8617	0.0012
06-064	1.5	36.1396	36.1416	-0.0020	12-125	60.2	35.9974	36.0050	-0.0076
06-064	5.5	36.1322	36.1430	-0.0108	12-125	70.6	36.2961	36.3085	-0.0124
06-064	10.8	36.1562	36.1417	0.0145	12-125	80.6	36.3650	36.3810	-0.0160
06-064	20.7	36.1333	36.1418	-0.0085	12-125	82.5	36.3591	36.3800	-0.0209
06-064	30.4	36.1224	36.1365	-0.0141	12-125	82.7	36.3607	36.3804	-0.0197
06-064	39.9	36.1140	36.1125	0.0014	13-133	1.9	31.4159		
06-064	50.1	36.1262	36.1136	0.0126	13-133	10.2	36.2867	36.2683	0.0184
06-064	60.3	36.1530	36.1139	0.0391	13-133	19.9	36.2739	36.2859	-0.0120
06-064	70.6	36.1078	36.1195	-0.0118	13-133	29.8	36.2853	36.2843	0.0011
06-064	80.6	36.1059	36.1256	-0.0196	13-133	40.4	36.2956	36.2914	0.0042
06-064	90.9	36.1149	36.1245	-0.0095	13-133	50.8	36.2897	36.3130	-0.0233
06-064	94.5	36.1240	36.1335	-0.0095	13-133	60.4	36.3125	36.3767	-0.0642
08-076	2.6	36.0219	36.0305	-0.0086	13-133	70	36.3622	36.3971	-0.0349
08-076	20	36.0238	36.0353	-0.0115	13-133	85.5	36.3835	36.3985	-0.0150
08-076	30	36.0225	36.0288	-0.0063	13-133	85.5	36.4884	36.3985	0.0899
08-076	39.5	36.0240	36.0283	-0.0043	13-133	102.2	35.3888	36.3993	-0.0105
08-076	61	36.0252	36.0287	-0.0035	13-133	152.3	36.3903	36.4110	-0.0206
08-076	71	36.0283	36.0292	-0.0010	14-143	1.2	36.0610	36.0521	0.0089
08-076	86	36.4623	36.4283	0.0340	14-143	6.7	36.0684	36.0503	0.0181
08-076	99.9	36.4907	36.4997	-0.0090	14-143	9.1	36.0645	36.0501	0.0144
08-076	1000.5	34.9447	34.9243	0.0204	14-143	21.2	36.0748	36.0543	0.0205
10-097	2.7	36.3105			14-143	30.5	36.0706	36.0828	-0.0123
10-097	10.29	36.3064	36.3229	-0.0165	14-143	40.6	36.1905	36.1640	0.0265
10-097	21	36.2851	36.3192	-0.0341	14-143	50.9	36.2091	36.1848	0.0243
10-097	30	36.2407	36.2591	-0.0185	14-143	62.2	36.2080	36.2056	0.0025
10-097	40	36.2209	36.2386	-0.0176	14-143	71.6	36.1848	36.2053	-0.0205
10-097	52	36.2298	36.2275	0.0023	14-143	82.3	36.3814	36.3830	-0.0017
10-097	60.2	36.4006	36.2279	0.1728	14-143	87.3	36.4142	36.3600	0.0542
					14-143	90.1	36.3442	36.3606	-0.0165



# CTD Surface Salinity (PSU)

GulfCet 04



**APPENDIX A:**  
**STATION POSITIONS**

Table 1. Cruise 04 XBT Stations and Probe Types

XBT Station	Date	Start Time	Latitude	Longitude	Probe Type	XBT Station	Date	Start Time	Latitude	Longitude	Probe Type
02-Ex8	2/24/93	0757	26°33.90	95°34.60	T-7	08-082	2/17/93	1617	27°45.51	91°30.00	T-7
02-012	2/24/93	0600	26°40.90	95°29.83	T-7	08-083	2/17/93	1540	27°49.55	91°30.03	T-7
02-014	2/23/93	2138	27°23.01	95°30	T-7	08-084	2/17/93	1517	27°52.08	91°30.03	T-7
02-016	2/23/93	1958	27°28.01	95°29.97	T-7	08-085	2/17/93	1508	27°52.95	91°30.02	T-10
02-017	2/23/93	1837	27°36.53	95°30.05	T-7	09-088	2/17/93	0704	28°03.00	90°49.90	T-10
02-018	2/23/93	1740	27°41.51	95°29.99	T-7	09-089	2/17/93	0639	28°00.00	90°49.90	T-7
02-019	2/23/93	1734	27°42.01	95°29.99	T-10	09-090	2/17/93	0514	27°52.00	90°50.00	T-7
03-022	2/23/93	1045	27°51.49	94°50	T-10	09-091	2/17/93	0414	27°45.90	90°50.00	T-7
03-023	2/23/93	1018	27°49.02	94°50.03	T-7	09-092	2/17/93	0308	27°39.50	90°50.00	T-20
03-024	2/23/93	0912	27°41.97	94°49.98	T-7	09-094	2/16/93	2154	27°15.97	90°49.99	T-20
03-025	2/23/93	0753	27°34.07	94°50	T-7	10-098	2/16/93	0937	27°11.26	90°10.05	T-20
03-027	2/23/93	0500	27°23.10	94°49.99	T-7	10-099	2/16/93	0504	27°39.90	90°09.90	T-20
03-028	2/22/93	0149	27°03.83	94°49.99	T-7	10-101	2/16/93	0230	27°50.14	90°09.95	T-7
04-Ex7	2/22/93	0002	27°36.00	94°10	T-7	10-102	2/16/93	0021	28°02.02	90°10.07	T-7
04-032	2/22/93	0553	26°37.04	94°09.98	T-20	10-103	2/15/93	2358	28°04.05	90°09.94	T-7
04-037	2/21/93	1928	27°30.06	94°09.94	T-20	10-104	2/15/93	2207	28°09.46	90°10.14	T-10
04-038	2/21/93	1809	27°38.00	94°09.98	T-7	11-107	2/15/93	1059	28°36.14	89°30.02	T-10
04-039	2/21/93	1740	27°41.01	94°09.97	T-7	11-108	2/15/93	1023	28°31.99	89°30.00	T-7
04-040	2/21/93	1709	27°44.01	94°10.02	T-7	11-109	2/15/93	0947	28°28.00	89°30.00	T-7
04-041	2/21/93	1615	27°49.51	94°09.99	T-10	11-110	2/15/93	0851	28°21.50	89°30.08	T-7
05-044	2/21/93	0850	27°37.96	93°30.01	T-10	11-111	2/15/93	0755	28°15.00	89°29.90	T-20
05-045	2/21/93	0633	27°34.91	93°29.99	T-7	11-113	2/15/93	0100	27°38.00	89°30.00	T-20
05-046	2/21/93	0611	27°33.00	93°29.90	T-7	12-Ex2	2/14/93	1048	28°02.23	88°50.69	T-7
05-048	2/21/93	0330	27°21.08	93°29.96	T-7	12-118	2/14/93	0850	28°14.50	88°49.92	T-20
05-049	2/21/93	0100	27°06.00	93°29.90	T-20	12-Ex1	2/14/93	0325	28°42.52	88°50.02	T-7
05-051	2/20/93	2004	26°43.13	93°30.02	T-20	12-120	2/14/93	0309	28°43.50	88°50.00	T-20
06-056	2/20/93	0141	26°52.00	92°49.98	T-20	12-121	2/14/93	0236	28°47.00	88°50.00	T-7
06-Ex6	2/19/93	2148	27°07.13	92°00.60	T-7	12-122	2/14/93	0141	28°53.00	88°50.00	T-7
06-058	2/19/93	2121	27°18.81	92°50	T-20	12-123*	2/14/93	0117	28°56.00	88°50.00	T-7
06-060	2/19/93	1745	27°33.77	92°49.55	T-7	12-124	2/14/93	0037	29°00.10	88°50.00	T-10
06-Ex5	2/19/93	1704	27°35.38	92°50.24	T-7	13-127	2/13/93	1755	29°12.95	88°10.04	T-10
06-061*	2/19/93	1605	27°41.03	92°50	T-7	13-128	2/13/93	1731	29°10.49	88°10.09	T-7
06-062	2/19/93	1545	27°43.01	92°50	T-7	13-129	2/13/93	1712	29°08.43	88°10.00	T-7
06-063	2/19/93	1351	27°54.50	92°50.01	T-10	13-130	2/13/93	1640	29°04.95	88°10.00	T-7
07-066	2/19/93	0647	27°52.90	92°10.02	T-10	13-131*	2/13/93	1620	29°03.03	88°10.01	T-20
07-067	2/19/93	0635	27°52.20	92°09.95	T-7	13-132	2/13/93	1402	28°49.00	88°10.00	T-20
07-068	2/19/93	0530	27°44.80	92°10.01	T-7	14-137	2/12/93	2020	29°04.03	87°29.93	T-20
07-069	2/19/93	0414	27°37.00	92°09.97	T-7	14-138	2/12/93	1834	29°15.03	87°30.02	T-20
07-070	2/19/93	0305	27°29.40	92°09.96	T-20	14-139	2/12/93	1815	29°16.92	87°29.98	T-7
07-072	2/18/93	2308	27°10.01	92°09.97	T-20	14-140	2/12/93	1745	29°20.00	87°29.99	T-7
07-Ex3	2/18/93	2352	27°14.01	92°10.08	T-7	14-141	2/12/93	1724	29°21.00	87°29.00	T-7
08-079	2/17/93	2100	27°23.00	91°30.00	T-20	14-142	2/12/93	1650	29°24.95	87°29.99	T-10
08-081	2/17/93	1817	27°33.02	91°30.01	T-20	NL-Ex6	2/19/93	2148	27°07.13	92°00.60	T-20

Note: \* "bad" probe

Table 2. Cruise 04 CTD Station Positions

Station	Date	Time	Latitude	Longitude	Station	Date	Time	Latitude	Longitude
02-010	2/24/93	1452	26°00.02	95°30.02	07-075	2/18/93	1005	26°17.00	92°10.13
02-013	2/24/93	0400	26°46.00	95°29.97	08-076	2/18/93	0440	26°36.99	91°29.99
02-015	2/23/93	2018	27°26.02	95°29.97	08-080	2/17/93	1931	27°25.83	91°30.11
02-020	2/23/93	1627	27°47.00	95°30.02	08-086	2/17/93	1225	28°07.62	91°30.11
03-021	2/23/93	1046	27°56.07	94°50.00	09-087	2/17/93	0818	28°09.02	90°50.26
03-026	2/23/93	0550	27°26.00	94°49.91	09-093	2/16/93	2336	27°25.79	90°50.04
03-029	2/22/93	2137	26°45.89	94°50.02	09-096	2/16/93	1544	26°44.98	90°50.02
03-030	2/22/93	1500	26°16.96	94°50.05	10-097	2/16/93	0956	27°09.75	90°09.99
04-031	2/22/93	0914	26°16.70	94°10.12	10-100	2/16/93	0310	27°45.90	90°09.97
04-033	2/22/93	0325	26°45.98	94°09.95	10-105	2/15/93	1908	28°15.87	90°10.01
04-036	2/21/93	2008	27°25.91	94°10.01	11-106	2/15/93	1230	28°45.03	89°29.99
04-042	2/21/93	1510	27°53.95	94°10.01	11-112	2/15/93	0552	28°06.13	89°30.08
05-043	2/21/93	1042	27°53.95	94°10.01	11-115	2/14/93	2200	27°27.11	89°30.16
05-047	2/21/93	0427	27°26.01	93°30.00	12-116	2/14/93	1749	27°25.99	88°50.10
05-050	2/20/93	2035	26°46.04	93°29.98	12-117	2/14/93	1328	27°46.01	88°49.99
05-053	2/20/93	1340	26°10.04	93°30.05	12-119	2/14/93	0608	28°26.00	88°50.00
06-054	2/20/93	0852	26°13.97	92°49.88	12-125	2/13/93	2305	29°06.48	88°49.85
06-055	2/20/93	0245	26°45.88	92°49.93	13-126	2/13/93	1829	29°16.56	88°10.06
06-059	2/19/93	1921	27°26.01	92°49.97	13-133	2/13/93	1227	28°46.20	88°09.85
06-064	2/19/93	1210	28°02.00	92°50.08	13-134	2/13/93	0916	28°36.90	88°10.00
07-065	2/19/93	0809	28°02.08	92°09.97	14-135	2/13/93	0310	28°30.92	87°29.94
07-071	2/19/93	0140	27°26.00	92°10.10	14-136	2/12/93	2323	28°45.95	87°29.92
07-073	2/18/93	1600	26°45.99	92°10.05	14-143	2/12/93	1530	29°27.00	87°30.00

**APPENDIX B:**  
**TEMPERATURE AND SALINITY**

Figure 2. 15°C Isotherm depth map

Depth of 15 °C Isotherm (m)

GulfCet 04

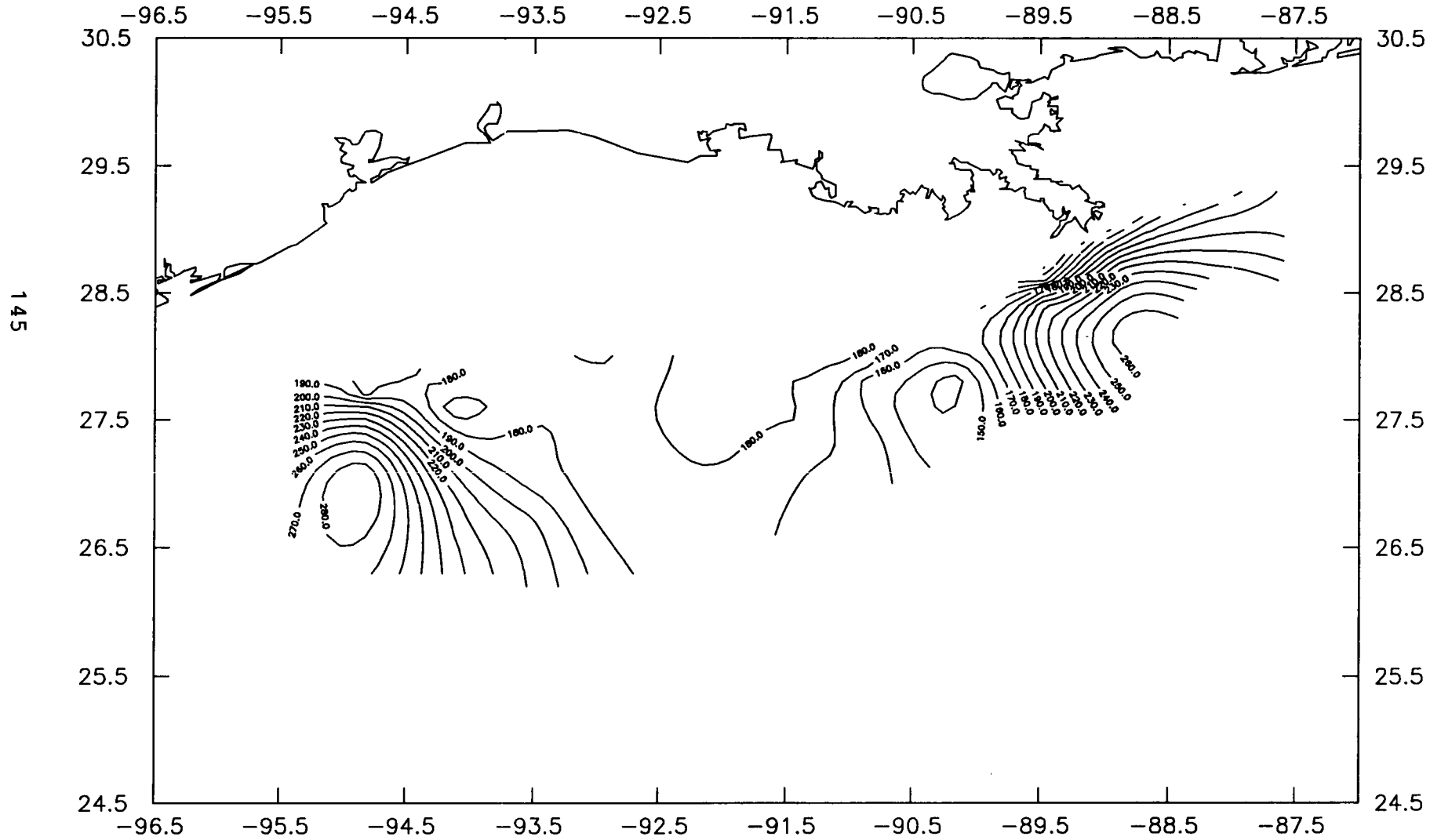


Figure 3. 20°C Isotherm depth map

Depth of 20 °C Isotherm (m)

GulfCet 04

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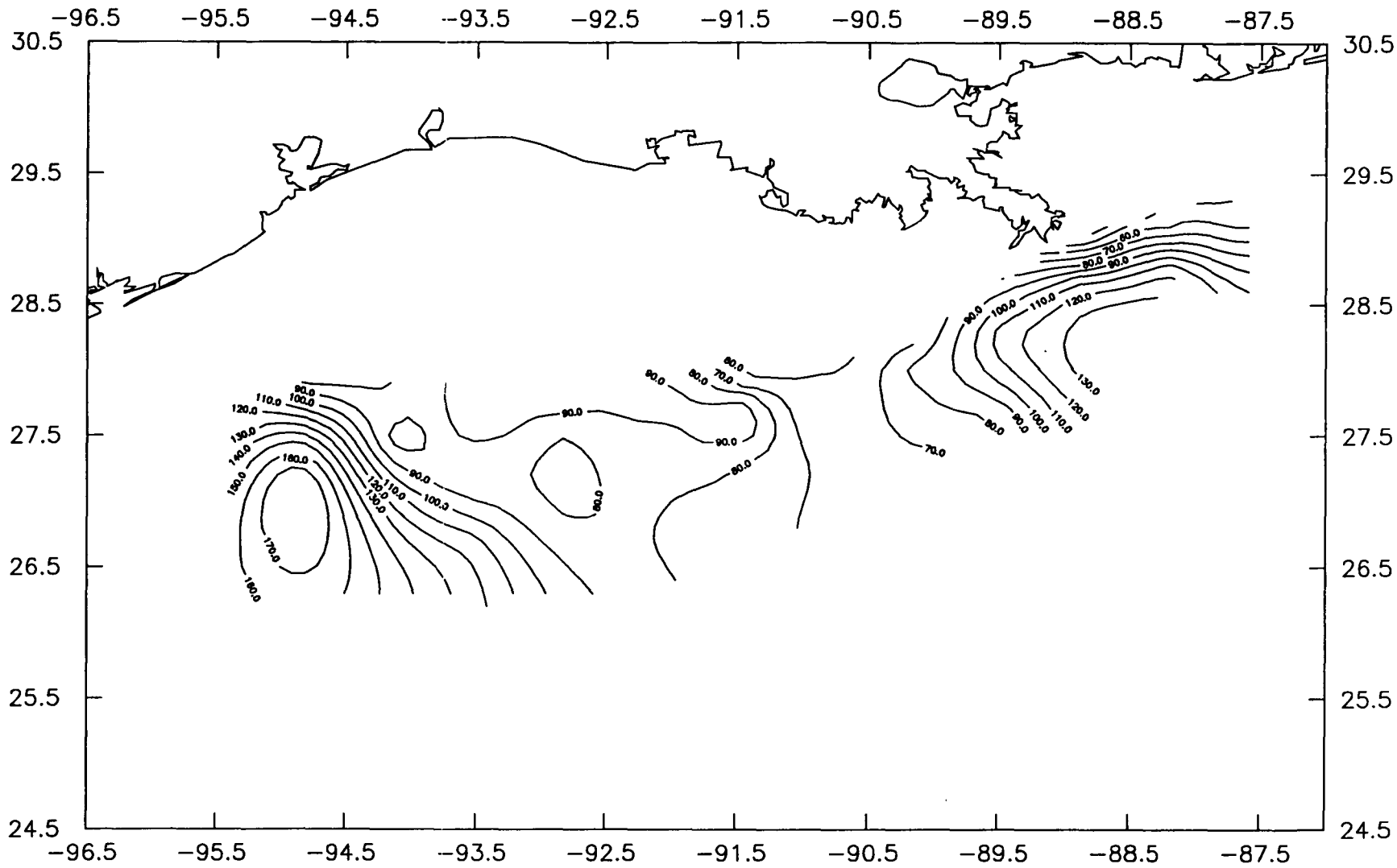


Figure 4. Sea surface temperatures (°C) : XBT versus MIDAS

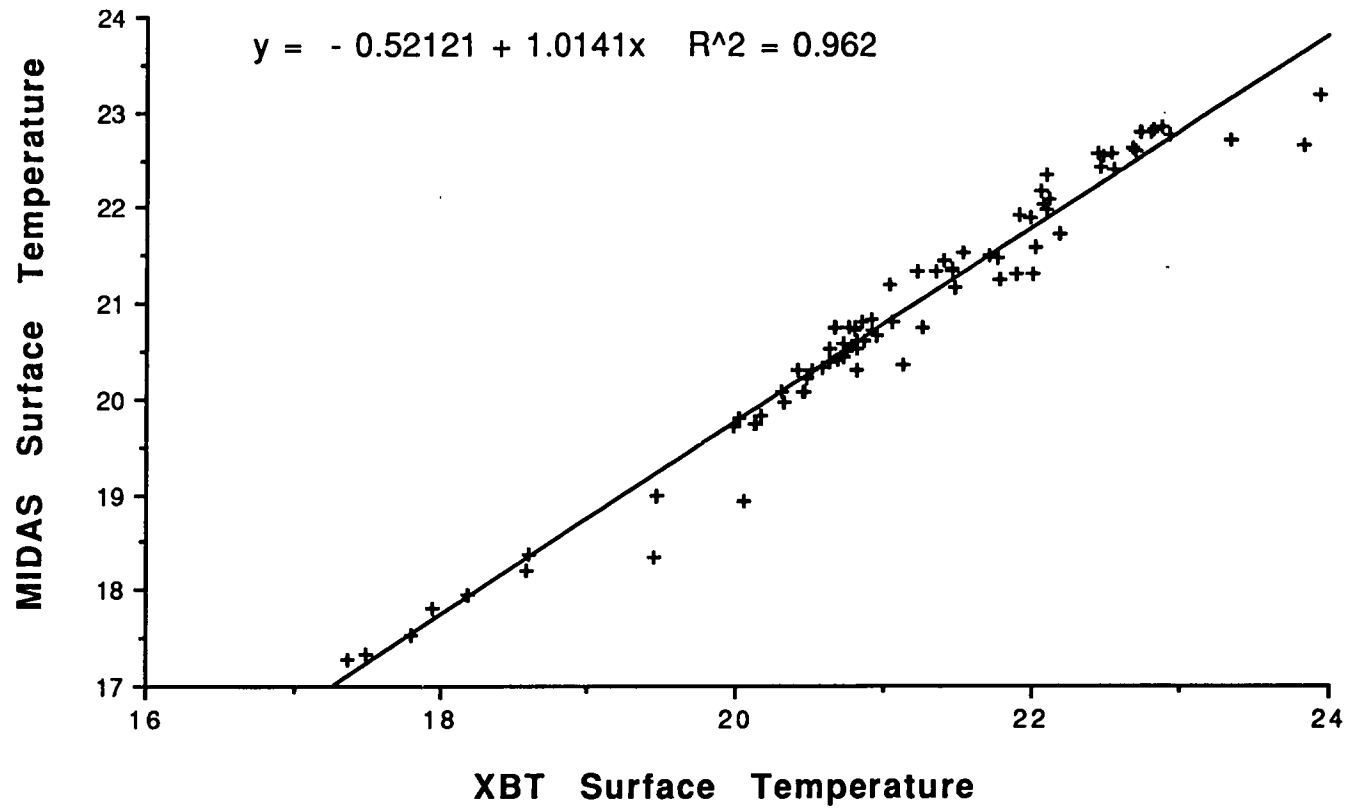




Figure 5. Sea surface temperature (°C) : CTD versus MIDAS

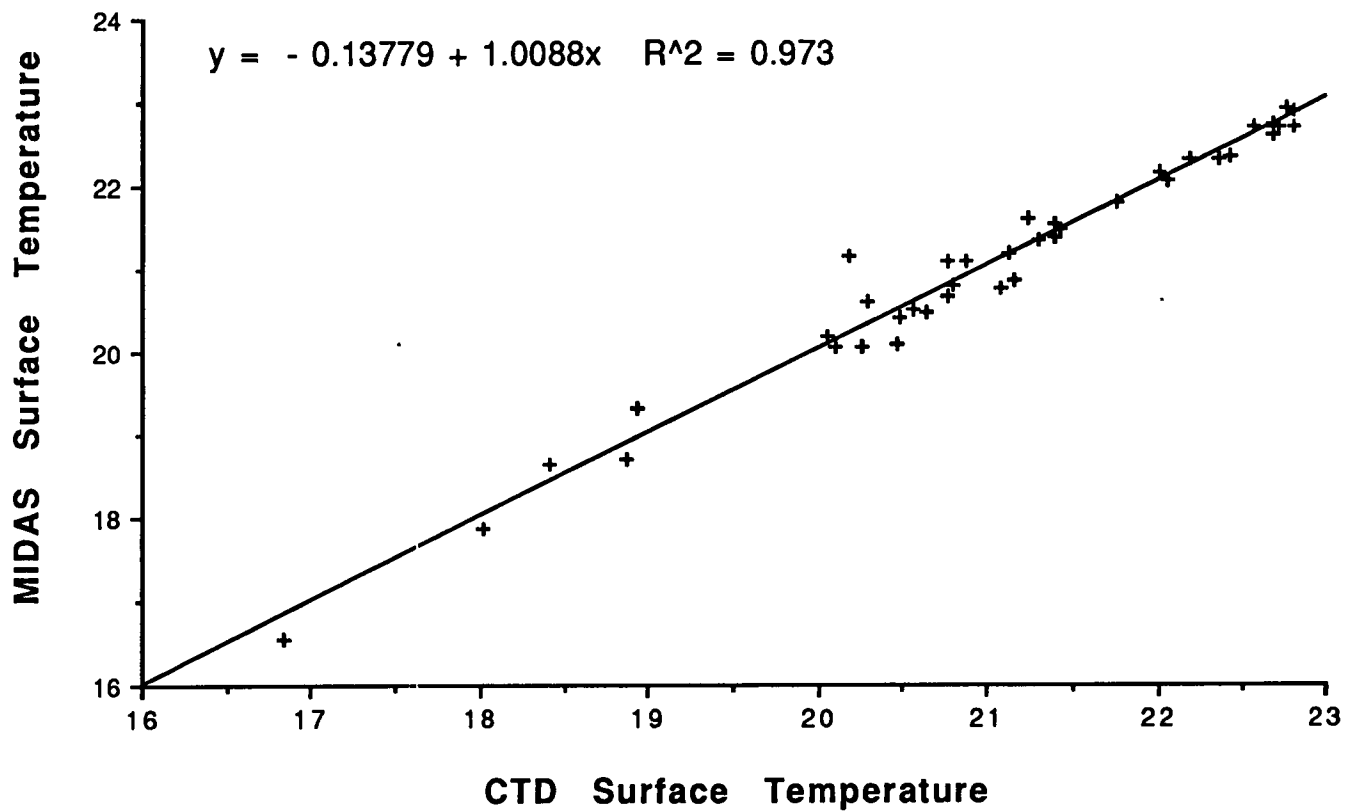


Figure 6. CTD station 05-050 temperature versus XBT station 05-051 (2.91 miles separation between stations)

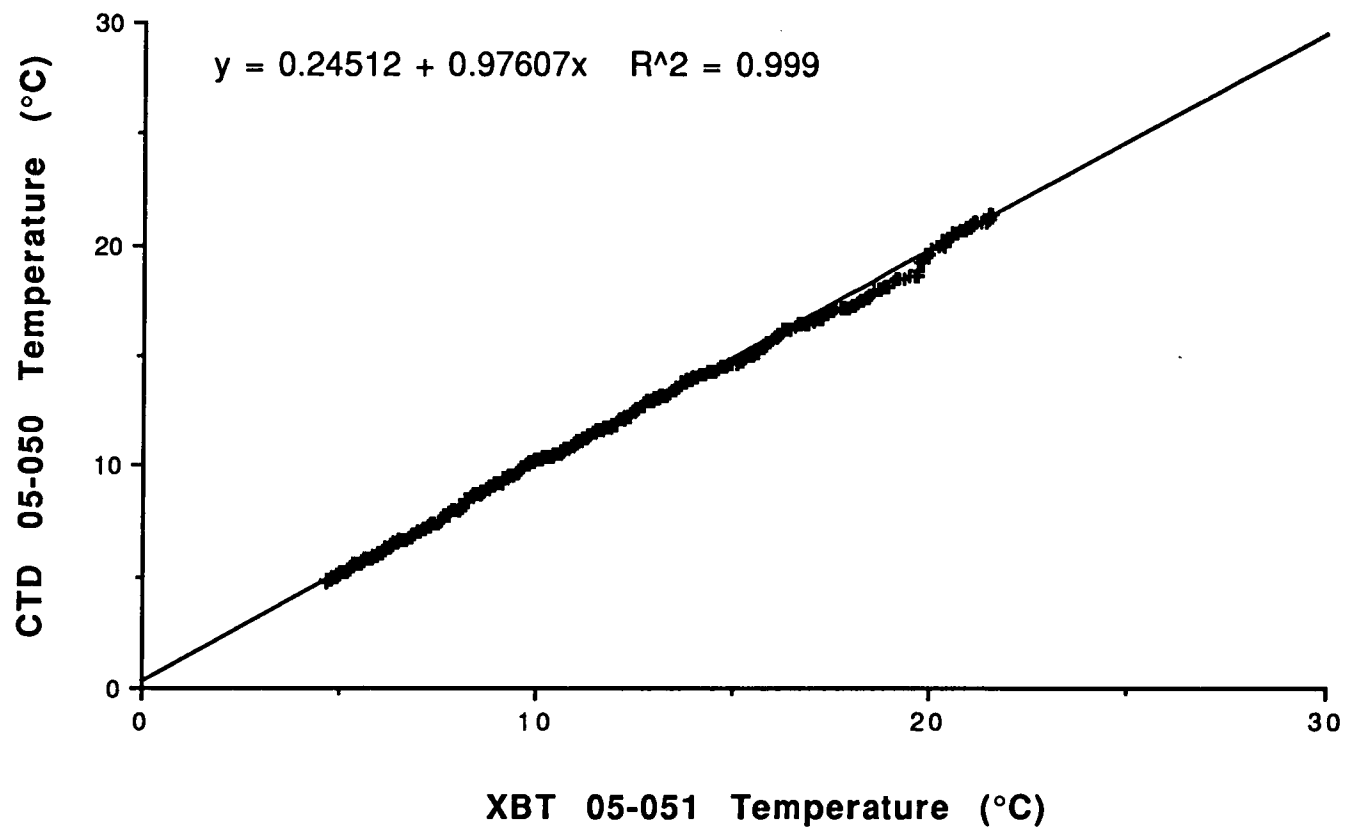


Figure 7. Bottle Salinity versus CTD Salinity

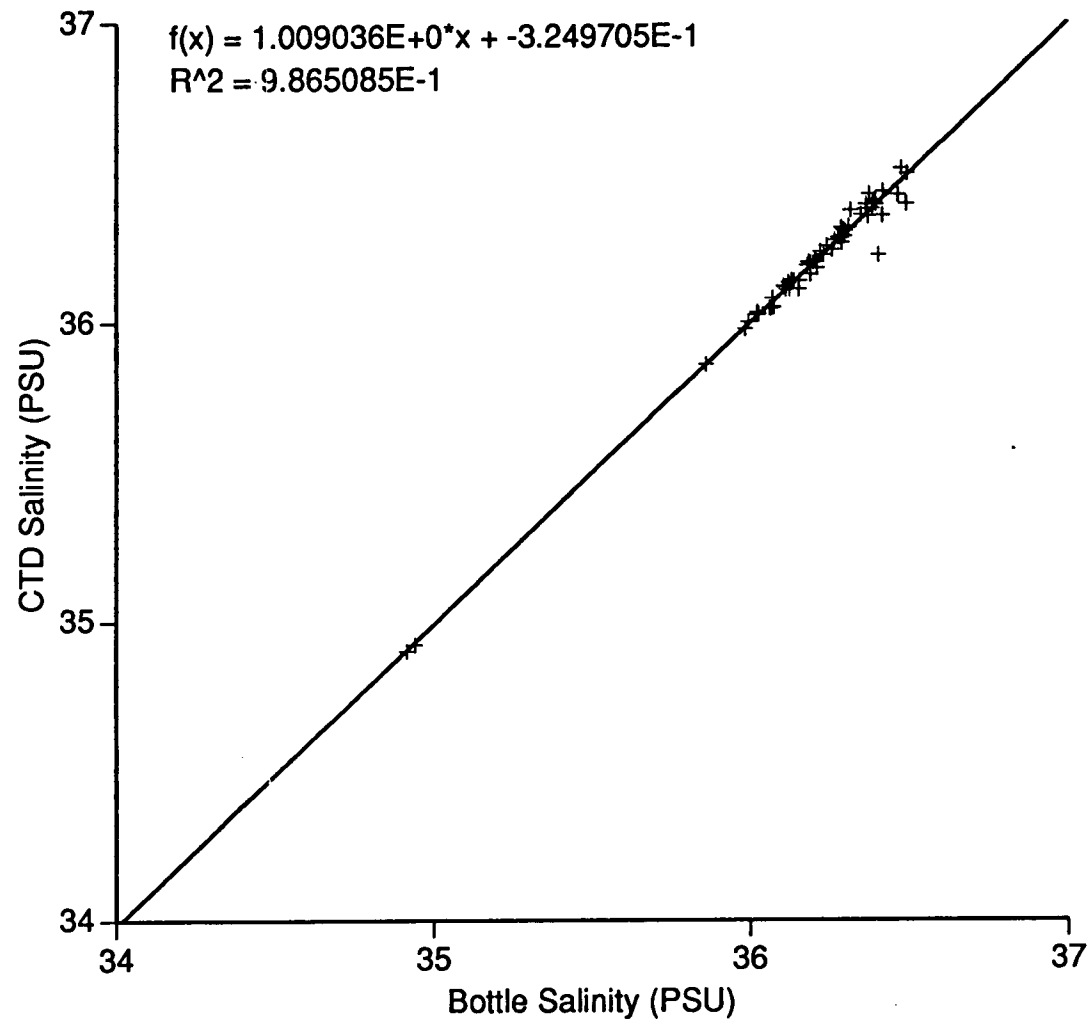
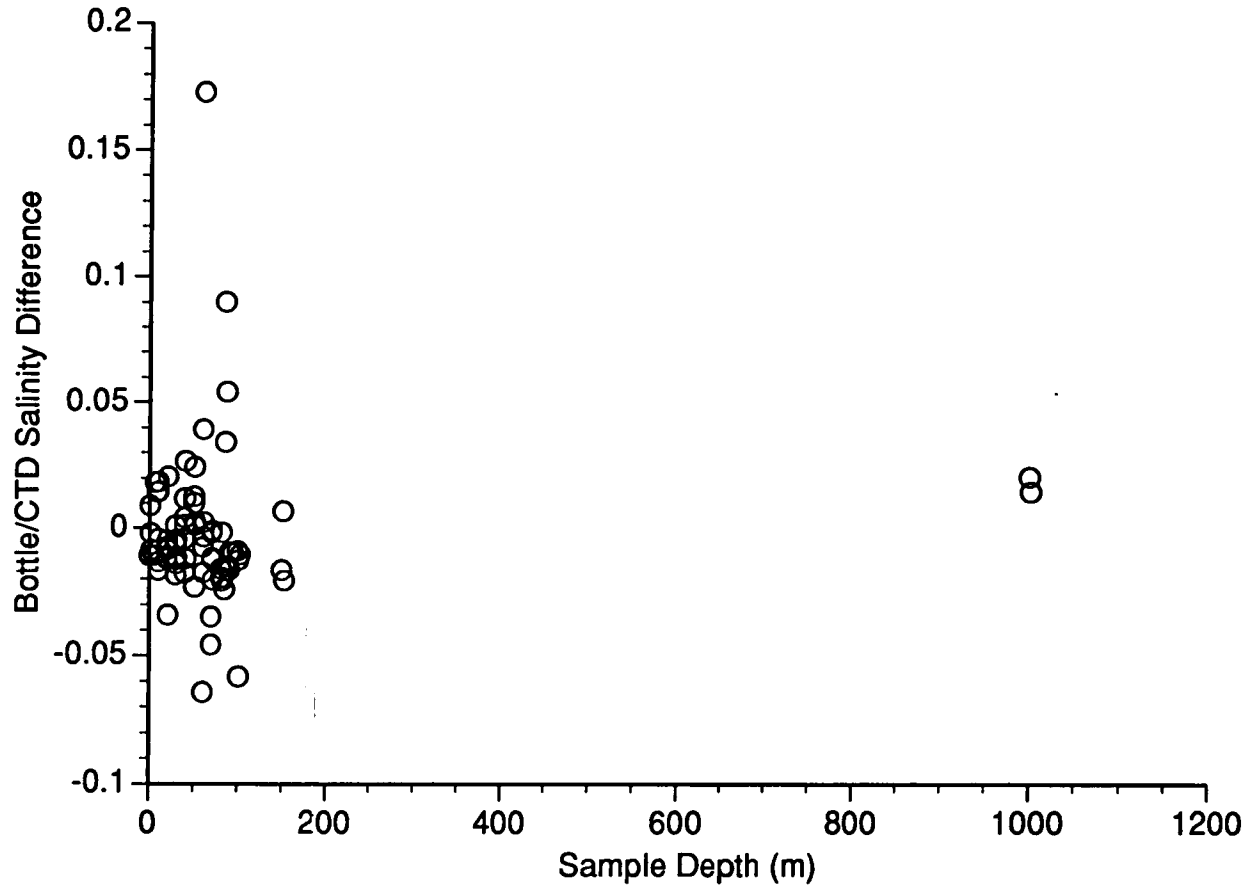


Figure 8. Sample Depth versus Bottle/CTD Salinity Difference





### **The Department of the Interior Mission**

As the Nation's principal conservation agency, the Department of the Interior has responsibility for most of our nationally owned public lands and natural resources. This includes fostering sound use of our land and water resources; protecting our fish, wildlife, and biological diversity; preserving the environmental and cultural values of our national parks and historical places; and providing for the enjoyment of life through outdoor recreation. The Department assesses our energy and mineral resources and works to ensure that their development is in the best interests of all our people by encouraging stewardship and citizen participation in their care. The Department also has a major responsibility for American Indian reservation communities and for people who live in island territories under U.S. administration.



### **The Minerals Management Service Mission**

As a bureau of the Department of the Interior, the Minerals Management Service's (MMS) primary responsibilities are to manage the mineral resources located on the Nation's Outer Continental Shelf (OCS), collect revenue from the Federal OCS and onshore Federal and Indian lands, and distribute those revenues.

Moreover, in working to meet its responsibilities, the **Offshore Minerals Management Program** administers the OCS competitive leasing program and oversees the safe and environmentally sound exploration and production of our Nation's offshore natural gas, oil and other mineral resources. The MMS **Minerals Revenue Management** meets its responsibilities by ensuring the efficient, timely and accurate collection and disbursement of revenue from mineral leasing and production due to Indian tribes and allottees, States and the U.S. Treasury.

The MMS strives to fulfill its responsibilities through the general guiding principles of: (1) being responsive to the public's concerns and interests by maintaining a dialogue with all potentially affected parties and (2) carrying out its programs with an emphasis on working to enhance the quality of life for all Americans by lending MMS assistance and expertise to economic development and environmental protection.