

AUSTRALIAN NATIONAL ANTARCTIC RESEARCH EXPEDITIONS

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N O T E S

53

Oceanographic data: Prydz Bay region -  
SIBEX II, MV Nella Dan, January 1985

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

ANTARCTIC DIVISION  
DEPARTMENT OF SCIENCE

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

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

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

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OCEANOGRAPHIC DATA: PRYDZ BAY REGION -  
SIBEX II, MV NELLA DAN, JANUARY 1985

by

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ABSTRACT

Sixty-four CTD stations were taken during the SIBEX II cruise in January 1985 as a supplement to the krill research program. Casts were made to 1000 m or to near bottom if shallower, along a series of north-south transects from 60°S to the continental shelf of Antarctica between 60°E and 90°E. In situ salinity, temperature and sigma-t are tabulated for standard depths, and shown graphically. T/S plots for each station are given.

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1962, 56(2), 559, article by H.R. Rupp

Abstracts of literature  
Bacteriology of fishes  
Glycogen, glucose, glycogenesis

Introduction

In the last few years there has been a great deal of interest in the glycogen metabolism of fish. This interest has been stimulated by the development of a technique to assay glycogen in fish tissue which is based on the use of a bacterial enzyme, *Leptothrix discophora*, which converts glycogen to glucose. The use of this technique has made it possible to study glycogen metabolism in fish tissue.

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## 1. INTRODUCTION

Oceanographic data were obtained during the Second International BIOMASS Experiment (SIBEX II) cruise on MV Nella Dan, January 1985 as part of a study on the distribution, abundance and population structure of krill Euphausia superba. The cruise covered the Southern Ocean from 60°S to the Antarctic coast and between 60°E and 90°E. The cruise track is given in Figure 1 and CTD stations are shown in Figure 2.

This Research Note is the fourth in the series presenting oceanographic data collected annually since 1980-81.

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

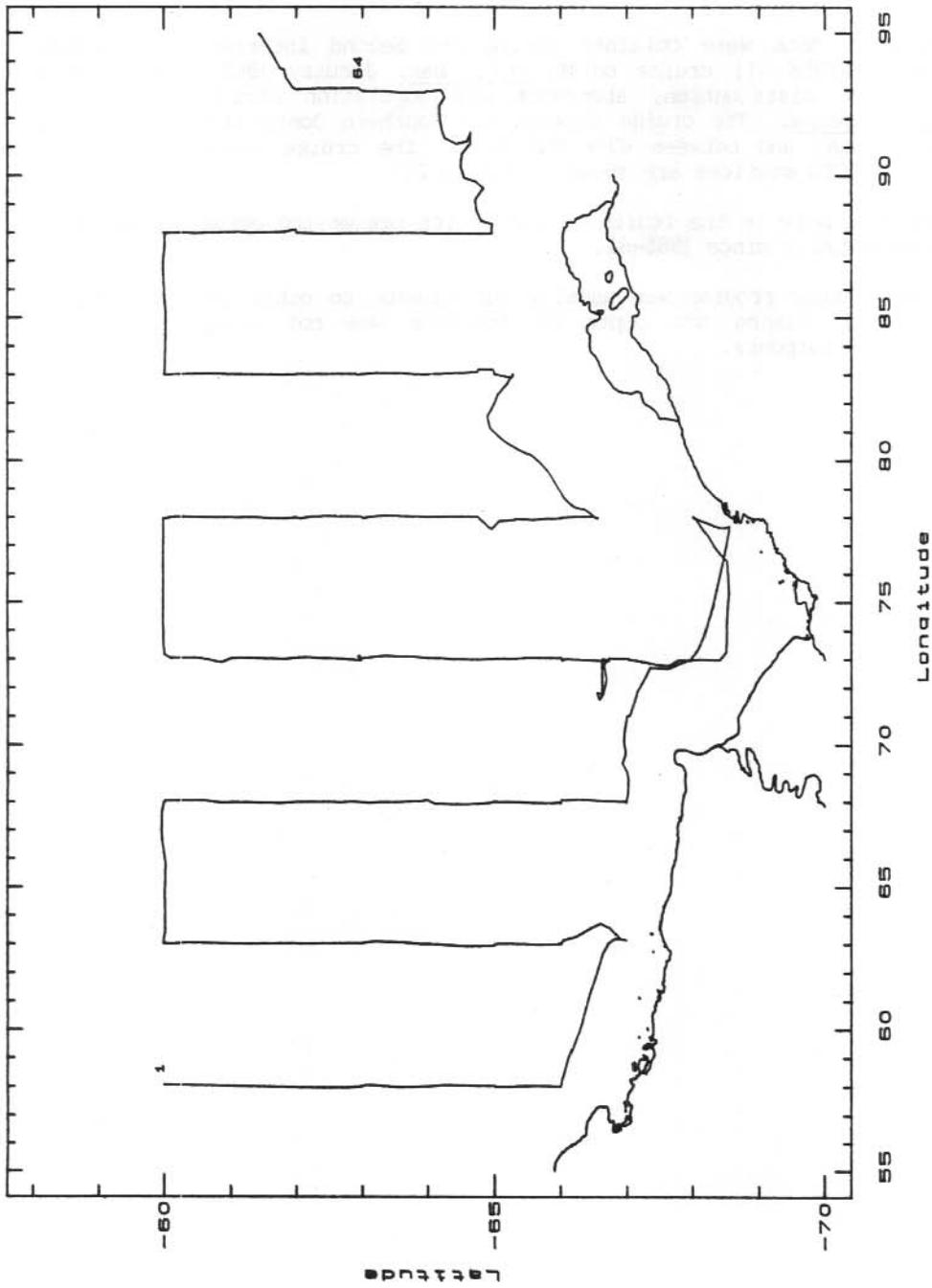


Figure 1. SIBEX II cruise track.

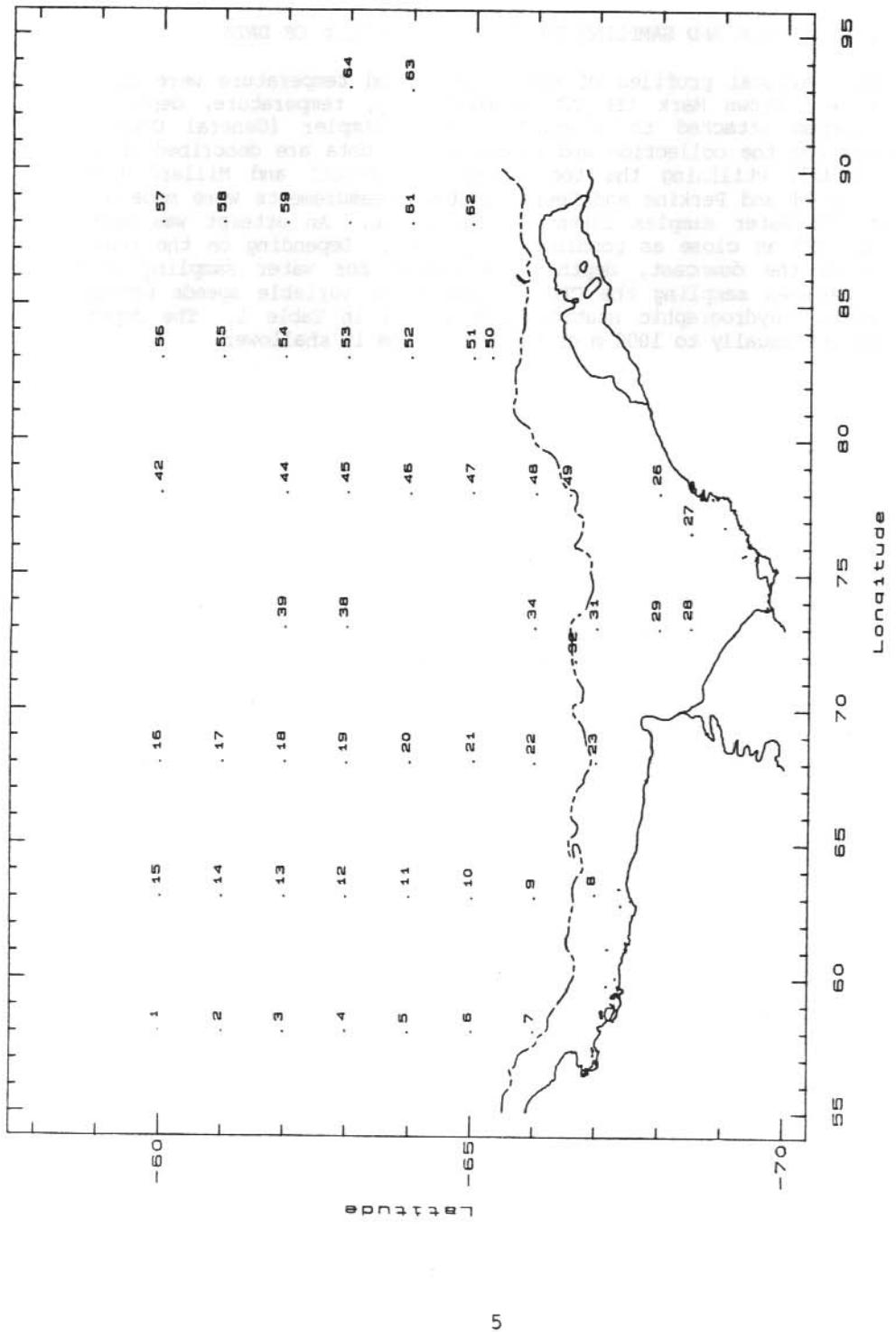


Figure 2. SIBEX II CTD stations.

## 2. METHODS

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

Continuous vertical profiles of conductivity and temperature were obtained using a Neil Brown Mark III CTD (conductivity, temperature, depth probe #2941) system attached to a rosette water sampler (General Oceanics). Procedures for the collection and processing of data are described in Kerry et al. (1987) utilising the techniques of Fofonoff and Millard (1983), Millard (1982) and Perkins and Lewis (1980). Measurements were made on the downcast and water samples taken on the upcast. An attempt was made to lower the CTD as close as possible to 1 m/sec. Depending on the readings obtained on the downcast, depths were chosen for water sampling on the upcast. Between sampling the CTD was raised at variable speeds between 1 and 2 m/sec. Hydrographic stations are listed in Table 1. The depth of each cast was usually to 1000 m or to near bottom if shallower.

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

Cruise: SIBEX 2		Vessel: NELLA DAN			
CTD Station	Position		Date	Time (GMT)	
1	59:59.40S	58:01.60E	03 JAN 1985	2252	
2	61:00.80S	57:59.10E	04 JAN 1985	0705	
3	61:59.80S	57:58.60E	04 JAN 1985	1417	
4	63:00.40S	58:00.50E	04 JAN 1985	2115	
5	63:59.50S	57:57.50E	05 JAN 1985	0610	
6	65:00.90S	58:00.30E	05 JAN 1985	1252	
7	66:00.40S	57:59.80E	05 JAN 1985	1920	
8	66:59.70S	63:07.50E	06 JAN 1986	1211	
9	66:00.50S	62:59.20E	06 JAN 1985	1923	
10	65:00.30S	62:58.30E	07 JAN 1985	0423	
11	63:59.80S	63:00.10E	07 JAN 1985	1101	
12	62:59.70S	62:59.90E	07 JAN 1985	1715	
13	62:00.30S	63:00.50E	08 JAN 1985	0057	
14	61:00.00S	63:00.50E	08 JAN 1985	0729	
15	60:00.20S	63:00.20E	08 JAN 1985	1400	
16	60:00.00S	68:00.00E	09 JAN 1985	0356	
17	61:00.30S	68:00.30E	09 JAN 1985	1158	
18	62:00.30S	68:00.30E	09 JAN 1985	1803	
19	62:59.90S	67:58.50E	10 JAN 1985	0001	
20	64:00.10S	68:00.20E	10 JAN 1985	0756	
21	65:01.50S	68:02.80E	10 JAN 1985	1445	
22	66:00.10S	67:59.10E	10 JAN 1985	2128	
23	67:00.00S	68:00.30E	11 JAN 1985	0700	
24	67:00.10S	68:00.10E	11 JAN 1985	0855	
26	68:00.00S	78:00.20E	13 JAN 1985	0915	
27	68:30.20S	76:30.90E	13 JAN 1985	1453	
28	68:30.10S	73:00.40E	13 JAN 1985	2353	
29	67:59.90S	72:57.40E	14 JAN 1985	0413	
30	67:59.40S	72:56.70E	14 JAN 1985	0530	
31	67:00.50S	73:00.30E	14 JAN 1985	1211	
32	66:39.70S	71:46.10E	14 JAN 1985	2136	
34	65:59.90S	72:59.60E	15 JAN 1985	0826	
35	66:00.00S	72:59.40E	15 JAN 1985	0837	
38	62:59.80S	73:00.20E	16 JAN 1985	0702	
39	62:00.10S	73:00.10E	17 JAN 1985	0934	
42	60:00.00S	78:00.00E	18 JAN 1985	1000	
44	62:01.20S	77:59.20E	18 JAN 1985	2115	
45	63:00.40S	77:59.70E	19 JAN 1985	0315	
46	64:00.00S	77:58.20E	19 JAN 1985	1232	
47	65:00.00S	78:00.10E	19 JAN 1985	2038	
48	66:00.60S	77:59.20E	20 JAN 1985	0424	
49	66:33.59S	77:57.20E	20 JAN 1985	0948	
50	65:17.20S	83:02.30E	21 JAN 1985	0412	
51	64:59.70S	83:00.10E	21 JAN 1985	0735	
52	63:59.90S	83:00.30E	21 JAN 1985	1757	
53	62:59.90S	83:00.20E	22 JAN 1985	0023	
54	61:59.30S	83:00.20E	22 JAN 1985	1323	
55	60:59.80S	83:00.00E	22 JAN 1985	1917	



### 3. PRESENTATION OF RESULTS

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

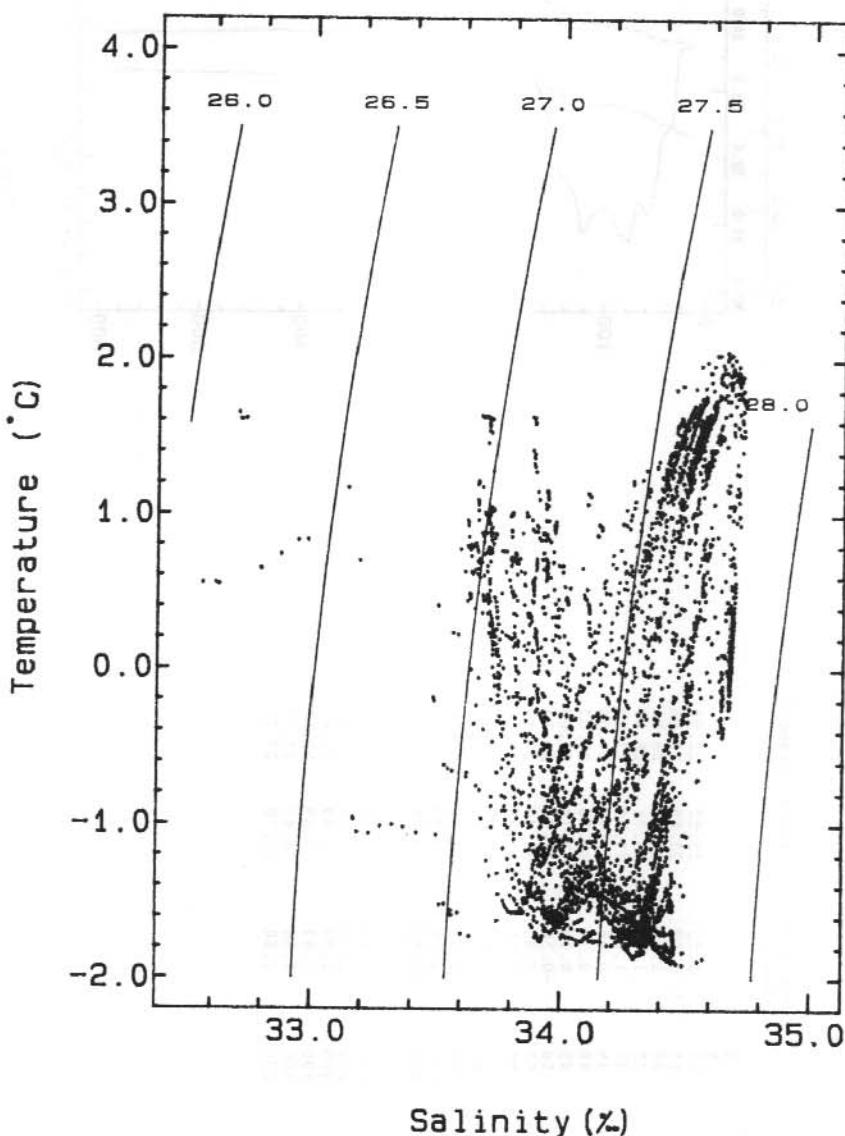
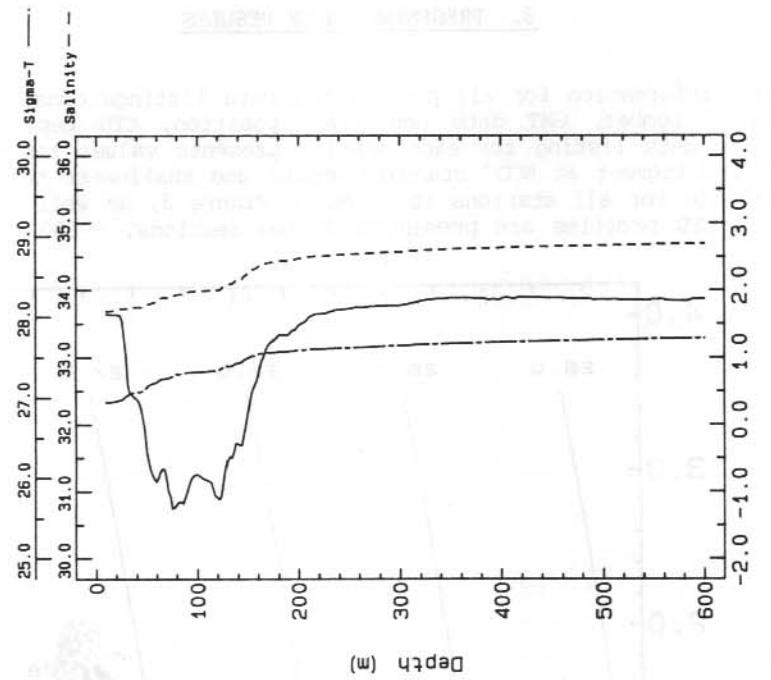


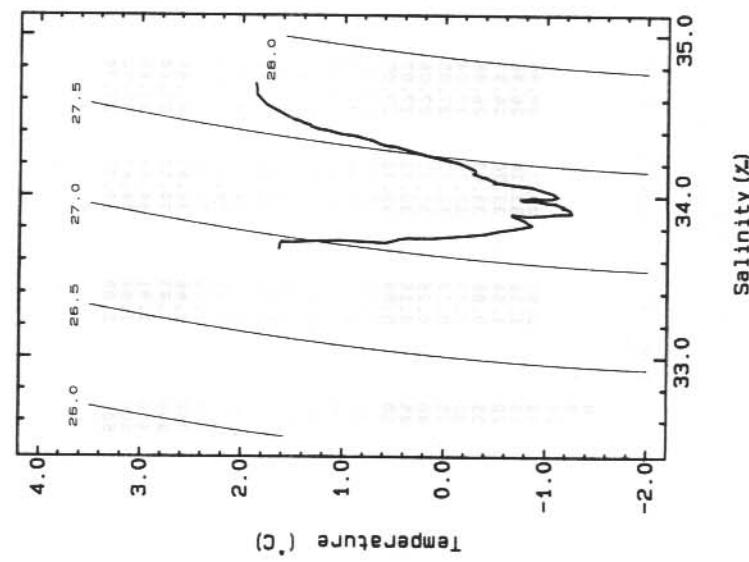
Figure 3. T/S data from all stations.

Cruise : SIBEX2  
 Station number : 1  
 Date : 3 JAN 1985  
 Start Time : 2252 GMT  
 Ship : NELIA DAN  
 Position : 59.59.40S 58.01.60E  
 Cast Depth (m) : 610  
 Bottom Depth (m) : 4900 m

Depth d bar	Temperature (deg C)	Salinity	Sigma-T
0			
5	1.63	33.67	26.94
10	1.62	33.68	26.95
15	1.62	33.70	26.96
20	1.62	33.71	26.97
25	1.57	33.72	26.97
30	1.03	33.73	27.02
35	0.45	33.73	27.06
40	0.37	33.74	27.07
45	0.18	33.74	27.08
50	-0.39	33.76	27.13
60	-0.86	33.82	27.19
70	-1.81	33.88	27.24
75	-1.17	33.89	27.26
80	-1.20	33.93	27.29
90	-1.01	33.96	27.31
100	-0.75	33.98	27.32
125	-0.97	34.04	27.37
150	0.19	34.26	27.50
175	1.25	34.42	27.56
200	1.48	34.48	27.59
250	1.72	34.54	27.62
300	1.77	34.57	27.65
400	1.87	34.63	27.69
500	1.86	34.67	27.71
600	1.88	34.70	27.74

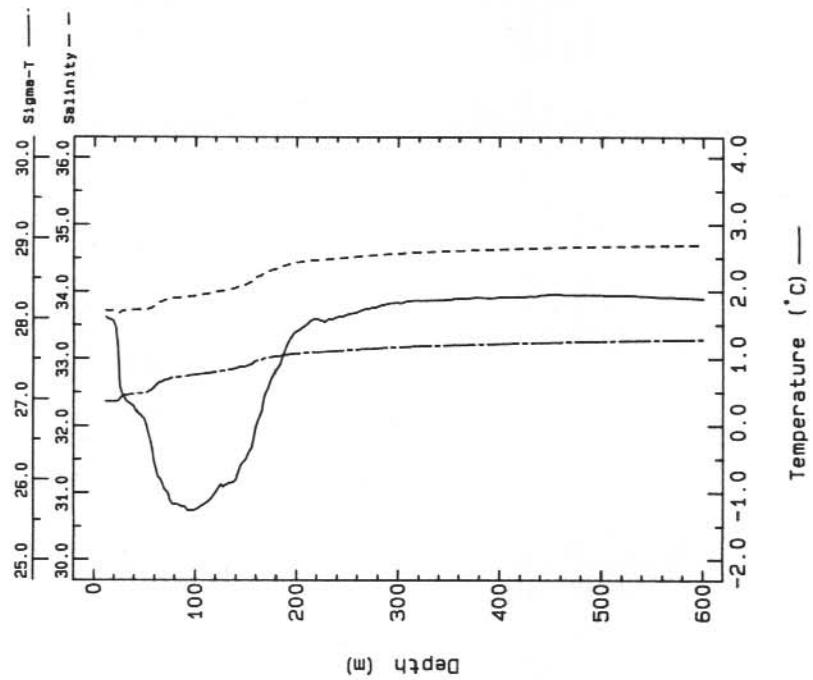


Cruise: SIBEX2 Station: 1  
03 JAN 1985 2252 GMT  
Latitude : 59° 59'.40S  
Longitude: 58° 01'.60E  
Depth: CTD 610 m Bottom 4900 m

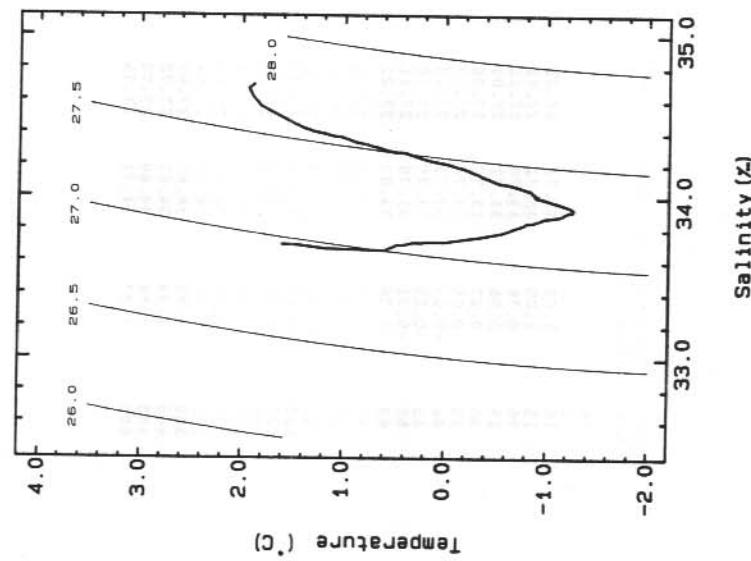


Cruise : SIBEX2   Station: 2  
 Station number : 2  
 Date : 4 JAN 1985  
 Start Time : 0705 GMT  
 Ship : NELIA DAN  
 Position : 61:00.80S 57:59.10E  
 Cast Depth (m) : 610  
 Bottom Depth (m) : Not Recorded

Depth (bar)	Temperature (deg C)	Salinity	Sigma-T
0			
5			
10	1.60	33.71	26.96
12			
15	1.58	33.70	26.96
20	1.54	33.70	26.97
25	1.58	33.67	26.98
30	0.43	33.70	27.04
35	0.33	33.72	27.05
40	0.28	33.72	27.06
45	0.16	33.72	27.07
50	0.09	33.72	27.07
60	-0.56	33.78	27.15
70	-0.95	33.86	27.23
75	-1.08	33.88	27.25
80	-1.18	33.90	27.27
90	-1.22	33.91	27.28
100	-1.25	33.93	27.30
125	-0.89	34.00	27.34
150	-0.50	34.10	27.40
175	0.68	34.31	27.51
200	1.40	34.43	27.56
250	1.66	34.51	27.60
300	1.83	34.57	27.64
400	1.91	34.63	27.68
500	1.94	34.67	27.72
600	1.89	34.70	27.74

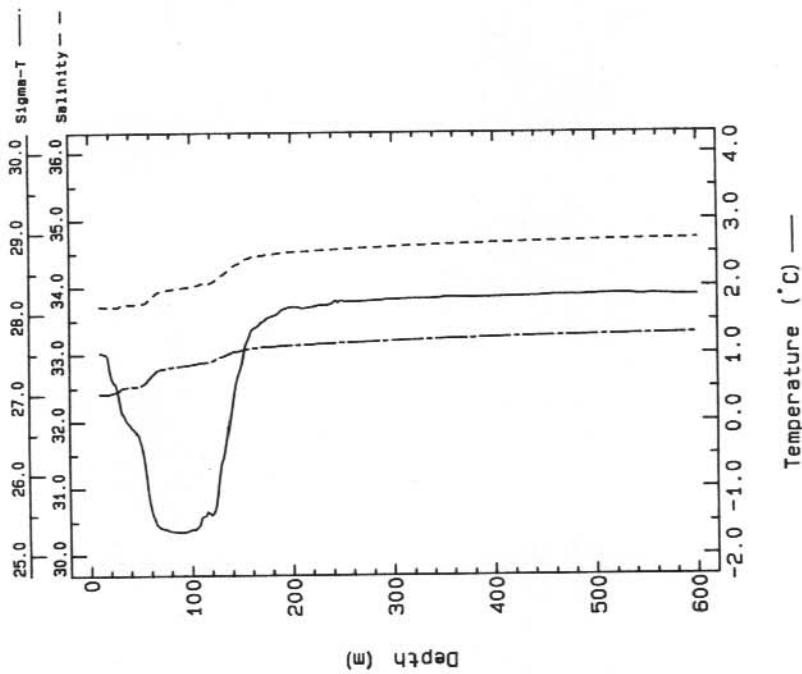


Cruise: SIBEX2 Station: 2  
04 JAN 1985 0705 GMT  
Latitude : 61° 00'.80S  
Longitude: 57° 59'.10E  
Depth: CTD 610 m Bottom NR

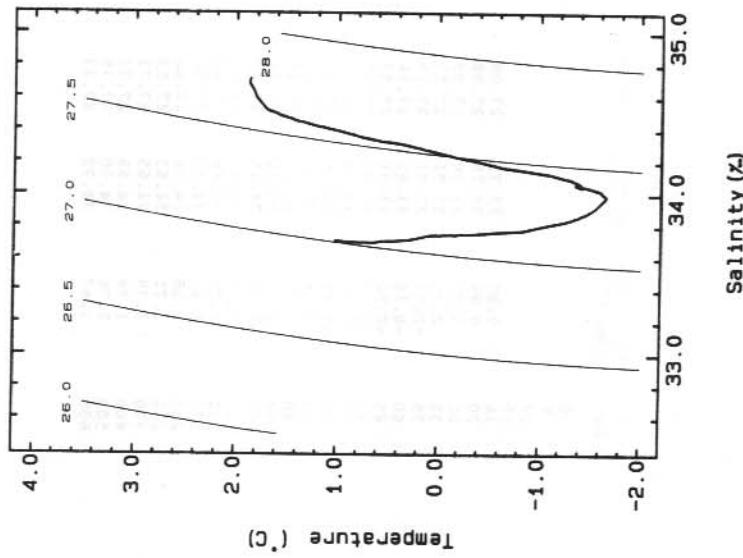


Cruise	SIBEX2		
Station number	3		
Date	4 JAN 1985		
Start Time	1417 GMT		
Ship	NELIA DAN		
Position	61°58.80S 57°58.60E		
Cast Depth (m)	610		
Bottom Depth (m)	Not Recorded		
Depth d bar	Temperature (deg C)	Salinity	Sigma-T
0	5	1.02	33.71
	10	1.00	33.71
	15	0.76	33.70
	20	0.56	33.71
	25	0.27	33.72
	30	0.05	33.74
	35	-0.05	33.75
	40	-0.15	33.75
	45	-0.31	33.75
	50	-1.26	33.83
	60	-1.59	33.94
	70	-1.61	33.96
	80	-1.64	33.97
	90	-1.66	33.99
	100	-1.61	34.01
	125	0.85	34.11
	150	1.53	34.37
	175	1.71	34.48
	200	1.80	34.52
	250	1.80	34.56
	300	1.81	34.60
	400	1.84	34.65
	500	1.88	34.69
	600	1.87	34.71

Cruise: SIBEX2 Station: 3  
 04 JAN 1985 1417 GMT  
 Latitude : 61:59.80S  
 Longitude: 57:58.60E  
 Depth: CTD 610 m Bottom NR



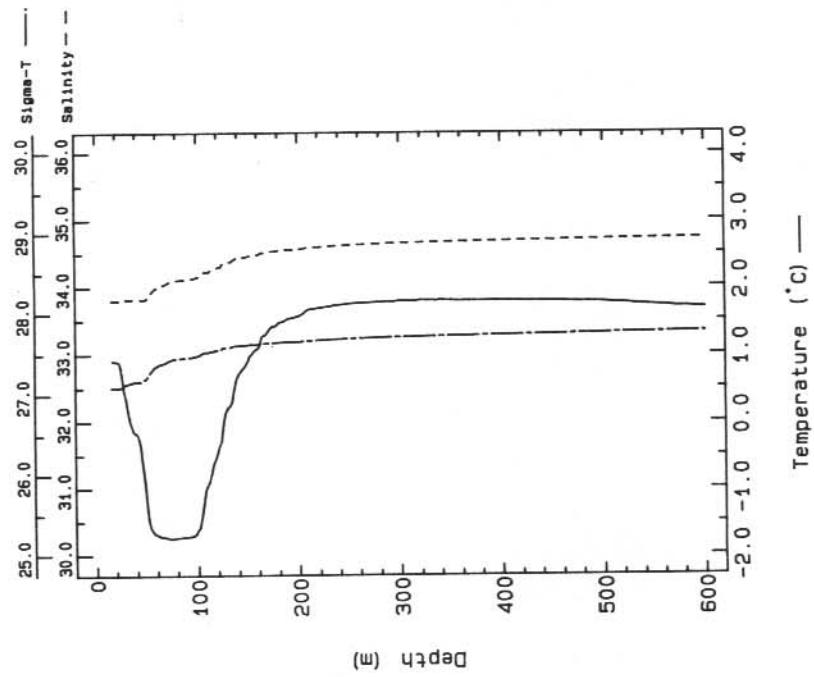
Cruise: SIBEX2 Station: 3  
04 JAN 1985 1417 GMT  
Latitude : 61° 59' 80S  
Longitude: 57° 58' 60E  
Depth: CTD 610 m Bottom NR



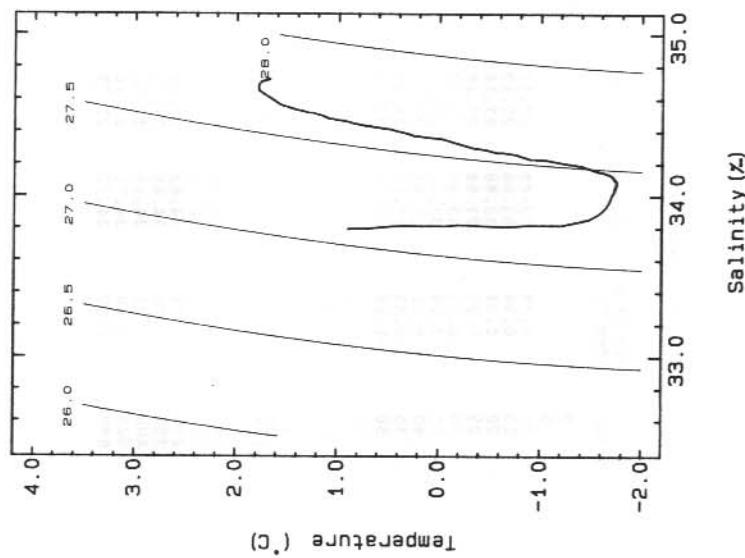
Cruise : SIBEX2  
 Station number : 4  
 Date : 4 JAN 1985  
 Start Time : 2115 GMT  
 Ship : NEELA DAN  
 Position : 63°00'.40S 58°00'.50E  
 Cast Depth (m) : 604  
 Bottom Depth (m) : Not Recorded

Depth d bar	Temperature (deg C)	Salinity	Sigma-T
0			
5			
10			
15	0.90	33.79	27.08
16		33.79	27.08
20	0.89	33.79	27.08
25	0.77	33.80	27.09
30	0.35	33.81	27.13
35	-0.03	33.81	27.15
40	-0.18	33.82	27.16
45	-0.50	33.81	27.17
50	-1.21	33.82	27.20
60	-1.70	33.99	27.35
70	-1.74	34.05	27.41
75	-1.75	34.09	27.44
80	-1.73	34.10	27.45
90	-1.72	34.12	27.46
100	-1.62	34.15	27.49
125	-0.16	34.33	27.57
150	0.90	34.46	27.62
175	1.41	34.53	27.64
200	1.56	34.56	27.66
250	1.75	34.63	27.69
300	1.79	34.65	27.71
400	1.79	34.68	27.73
500	1.76	34.70	27.75
600	1.67	34.72	27.77

Cruise: SIBEX2 Station: 4  
 04 JAN 1985 2115 GMT  
 Latitude: 63°00'.40S  
 Longitude: 58°00'.50E  
 Depth: CTD 604 m Bottom NR



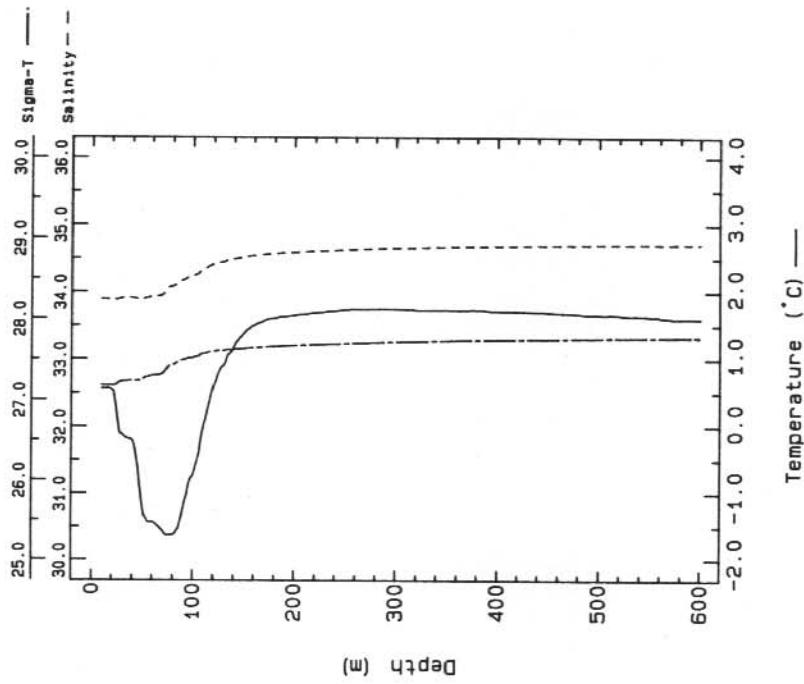
Cruise: SIBEX2 Station: 4  
04 JAN 1985 2115 GMT  
Latitude : 63° 00' 40S  
Longitude: 58° 00' 50E  
Depth: CTD 604 m Bottom NR



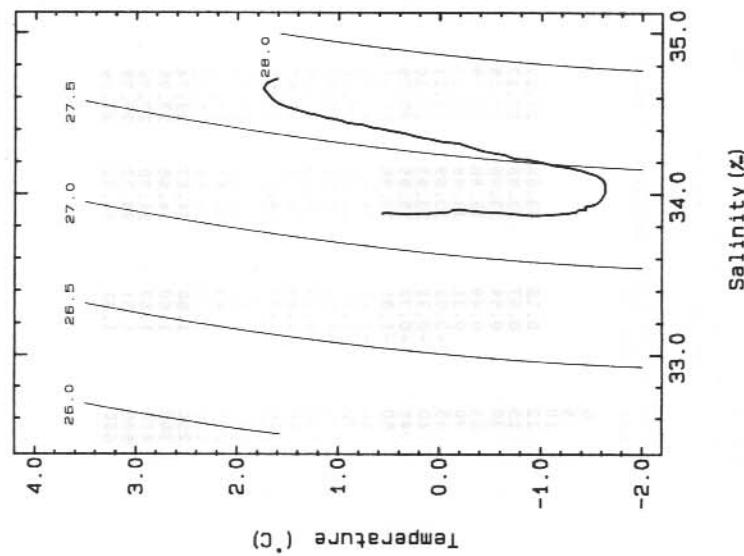
Cruise : SIBEX2  
 Station number : 5  
 Date : 5 JAN 1985  
 Start Time : 0610 GMT  
 Ship : NELLA DAN  
 Position : 63°59'.50S 57°57'.50E  
 Cast Depth (m) : 610  
 Bottom Depth (m) : Not Recorded

Depth d bar	Temperature (deg C)	Salinity	Sigma-T
0			
5	0.56	33.88	27.17
10	0.56	33.88	27.17
15	0.54	33.88	27.18
20	0.23	33.88	27.19
25	-0.13	33.90	27.23
30	-0.18	33.90	27.23
35	-0.21	33.91	27.23
40	-0.53	33.89	27.23
45	-1.16	33.88	27.25
50	-1.43	33.92	27.30
60	-1.56	33.95	27.32
70	-1.64	34.04	27.39
80	-1.62	34.08	27.43
90	-1.27	34.17	27.49
100	-0.74	34.22	27.51
125	0.81	34.44	27.60
150	1.38	34.52	27.63
175	1.60	34.56	27.65
200	1.65	34.59	27.67
250	1.74	34.63	27.69
300	1.75	34.66	27.72
400	1.71	34.69	27.74
500	1.66	34.71	27.76
600	1.60	34.72	27.77

Cruise: SIBEX2 Station: 5  
 05 JAN 1985 0610 GMT  
 Latitude : 63°59'.50S  
 Longitude: 57°57'.50E  
 Depth: CTD 610 m Bottom NR



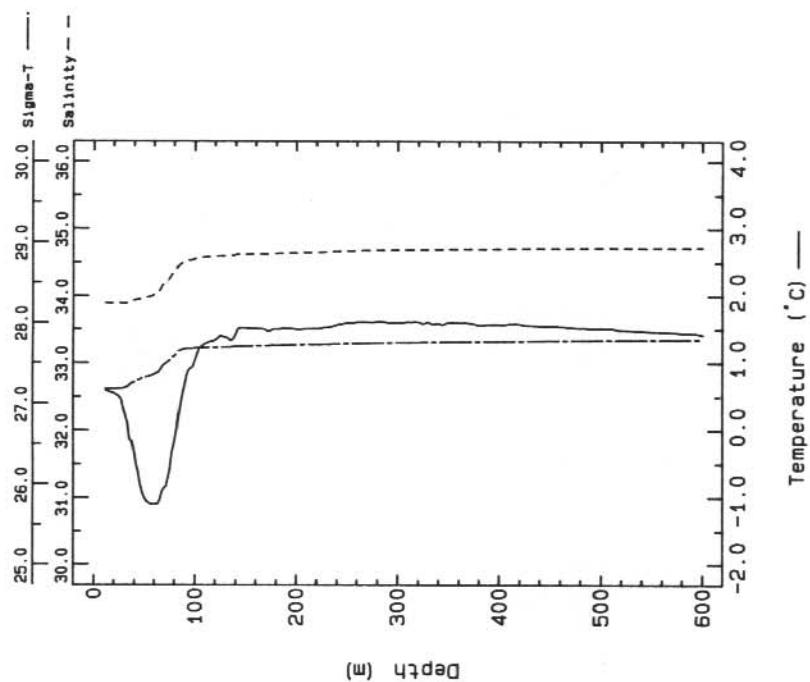
Cruise: SIBEX2 Station: 5  
05 JAN 1985 0610 GMT  
Latitude : 63° 59' 50S  
Longitude: 57° 57' 50E  
Depth: CTD 610 m Bottom NR



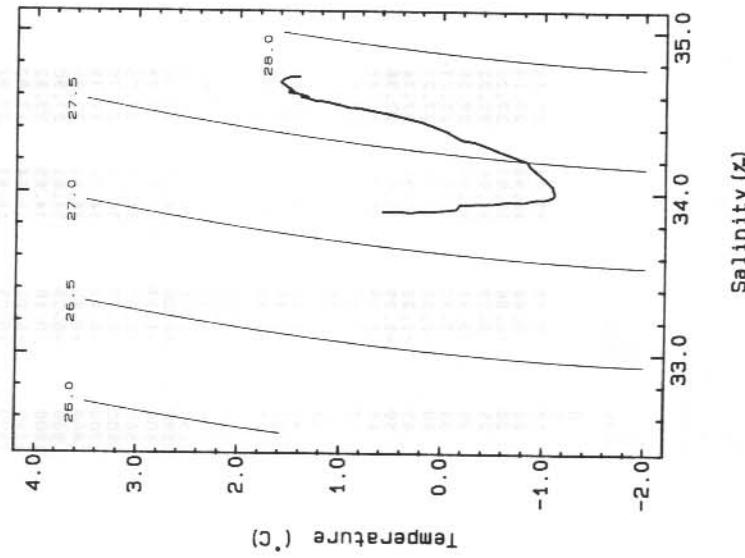
Cruise : SIBEX 2  
 Station number : 6  
 Date : 5 JAN 1985  
 Start Time : 1252 GMT  
 Ship : NELLA DANS  
 Position : 65:00.90S 58:00.30E  
 Cast Depth (m) : 612  
 Bottom Depth (m) : Not Recorded

Depth (bar)	Temperature (deg C)	Salinity	Sigma-T
0			
5			
10	0.58	32.88	27.17
15	0.57	33.98	27.17
20	0.54	33.88	27.18
25	0.49	33.88	27.18
30	0.31	33.88	27.18
35	-0.02	33.89	27.21
40	-0.31	33.93	27.26
45	-0.72	33.95	27.29
50	-1.01	33.96	27.31
60	-1.11	34.01	27.36
70	-0.86	34.17	27.48
75	-0.64	34.24	27.53
80	-0.19	34.33	27.58
90	0.69	34.51	27.67
100	1.03	34.55	27.68
125	1.40	34.59	27.69
150	1.52	34.62	27.70
175	1.49	34.63	27.72
200	1.50	34.64	27.72
250	1.60	34.67	27.74
300	1.60	34.68	27.75
400	1.57	34.70	27.76
500	1.51	34.72	27.78
600	1.41	34.72	27.79

Cruise: SIBEX2 Station: 6  
 05 JAN 1985 1252 GMT  
 Latitude : 65: 00.90S  
 Longitude: 58: 00.30E  
 Depth: CTD 612 m Bottom NR

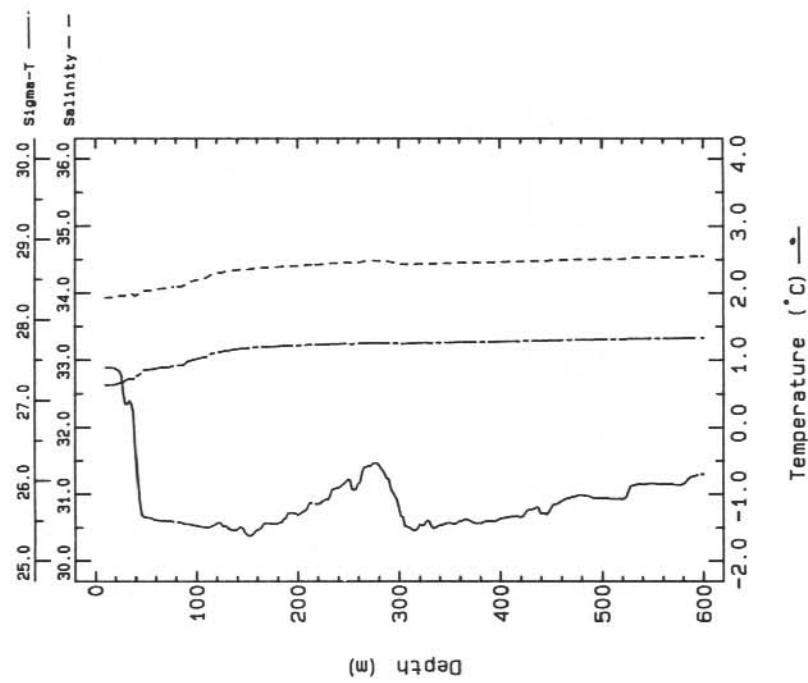


Cruise: SIBEX2 Station: 6  
05 JAN 1985 1252 GMT  
Latitude : 65° 00' .90S  
Longitude: 58° 00' .30E  
Depth: CTD 612 m Bottom NR



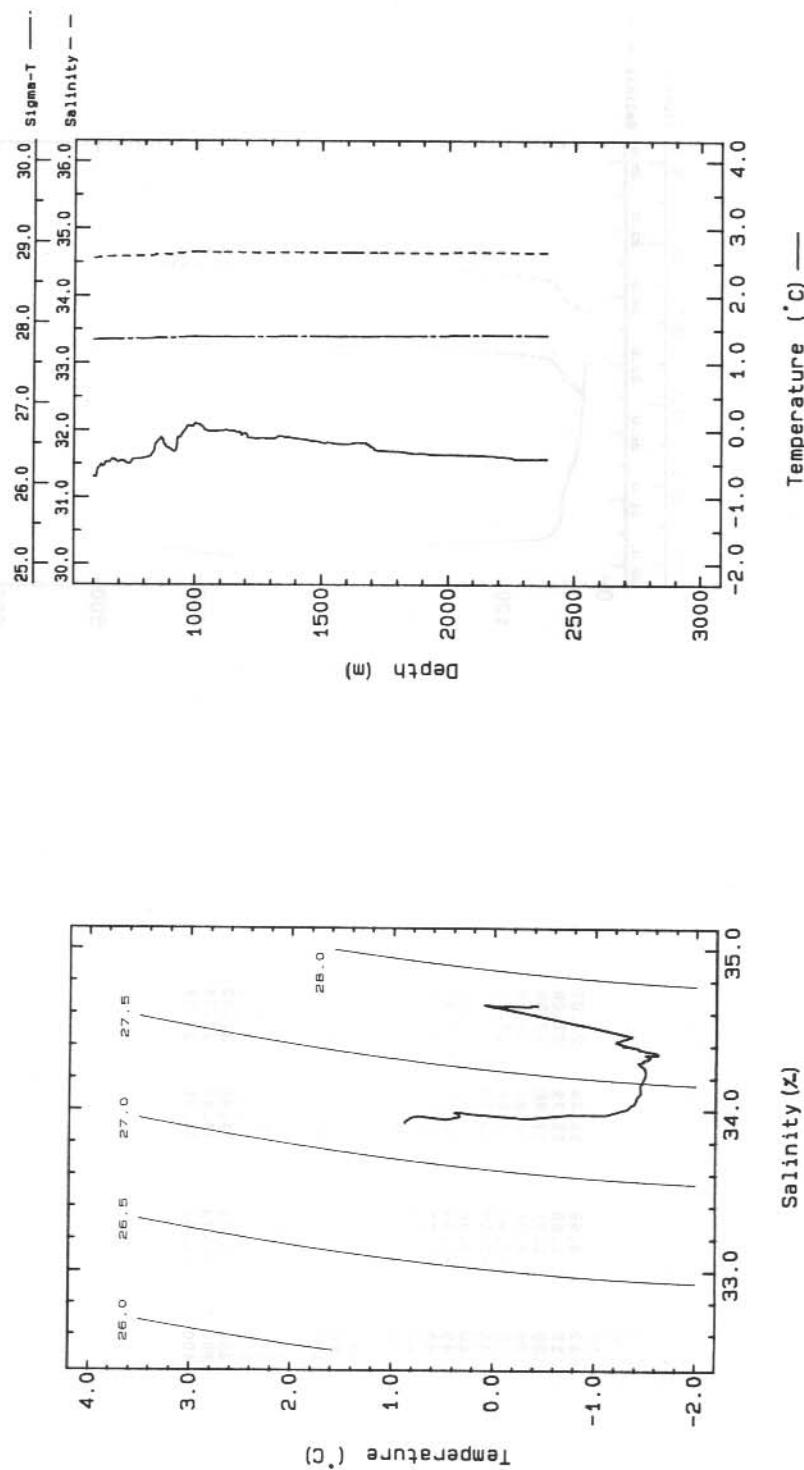
Cruise : SIBEX2  
 Station number : 7  
 Date : 5 JAN 1985  
 Start Time : 1920 GMT  
 Ship : NELLA DAN  
 Position : 66:00.40S 57:59.80E  
 Cast Depth (m) : 2394  
 Bottom Depth (m) : 2400

Depth d bar	Temperature (deg C)	Salinity	Sigma-T
0			
5	0.88	33.92	27.18
10	0.88	33.93	27.19
15	0.86	33.93	27.20
20	0.79	33.96	27.22
25	0.34	33.96	27.25
30	0.34	33.96	27.25
35	0.37	33.98	27.27
40	-0.32	33.94	27.27
45	-1.22	33.99	27.34
50	-1.35	34.03	27.38
60	-1.39	34.05	27.40
70	-1.40	34.06	27.41
75	-1.41	34.08	27.42
80			
90	-1.45	34.15	27.48
100	-1.48	34.19	27.51
125	-1.46	34.30	27.60
150	-1.62	34.35	27.65
175	-1.45	34.38	27.67
200	-1.31	34.40	27.68
250	-0.78	34.46	27.70
300	-1.20	34.43	27.70
400	-1.37	34.46	27.73
500	-1.07	34.50	27.75
600	-0.70	34.55	27.78
700	-0.47	34.58	27.79
800	-0.42	34.60	27.80
900	-0.28	34.61	27.80
1000	0.10	34.65	27.82
1100	-0.01	34.64	27.82
1200	-0.05	34.64	27.82
1300	-0.13	34.64	27.82
1400	-0.13	34.65	27.83
1500	-0.19	34.64	27.83
1750	-0.31	34.64	27.83
2000	-0.37	34.64	27.84



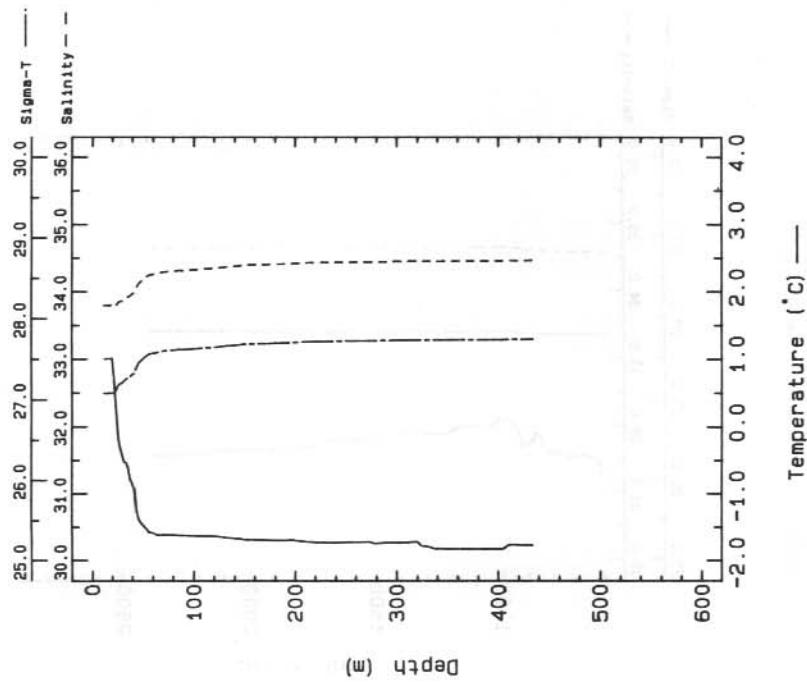
Cruise: SIBEX2 Station: 7  
05 JAN 1985 1920 GMT  
Latitude : 66:00.40S  
Longitude: 57:59.80E  
Depth: CTD 2394 m Bottom 2400 m

Cruise: SIBEX2 Station: 7  
05 JAN 1985 1920 GMT  
Latitude : 66:00.40S  
Longitude: 57:59.80E  
Depth: CTD 2394 m Bottom 2400 m

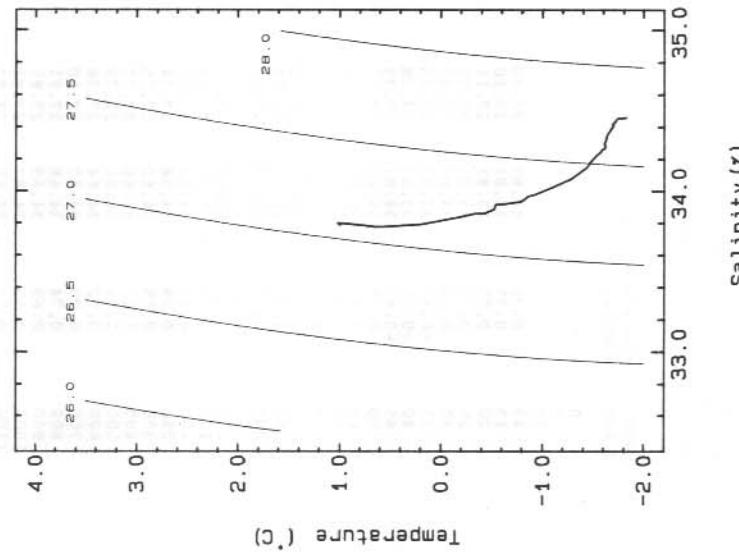


Cruise	Station number	Temperature (deg C)	Salinity	Sigma-T
SIBEX2	8			
Station number	6 JAN 1986			
Date	1211 GMT			
Start Time	NEELIA DAN			
Ship	66°59.7' S			
Position	63°07.5' E			
Cast Depth (m)	436			
Bottom Depth (m)	443			
Depth (m)	Temperature (deg C)	Salinity	Sigma-T	
0				
5	0.99	33.79	27.07	
10	1.00	33.79	27.08	
12				
15	-0.99	33.80	27.08	
20	1.01	33.81	27.15	
25	0.01	33.86	27.21	
30	-0.43	33.92	27.26	
35	-0.59	33.97	27.31	
40	-0.86	34.10	27.43	
45	-1.33	34.18	27.50	
50	-1.47	34.26	27.57	
60	-1.59	34.29	27.60	
70	-1.61	34.30	27.61	
75	-1.62	34.31	27.61	
80	-1.62	34.31	27.61	
90	-1.63	34.31	27.62	
100	-1.63	34.33	27.63	
125	-1.65	34.36	27.65	
150	-1.69	34.40	27.69	
175	-1.70	34.41	27.70	
200	-1.71	34.42	27.71	
250	-1.73	34.44	27.72	
300	-1.73	34.45	27.73	
400	-1.83	34.46	27.74	

Cruise: SIBEX2 Station: 8  
 06 JAN 1986 1211 GMT  
 Latitude : 66.59.7'S  
 Longitude: 63.07.5'E  
 Depth: CTD 436 m Bottom 443 m

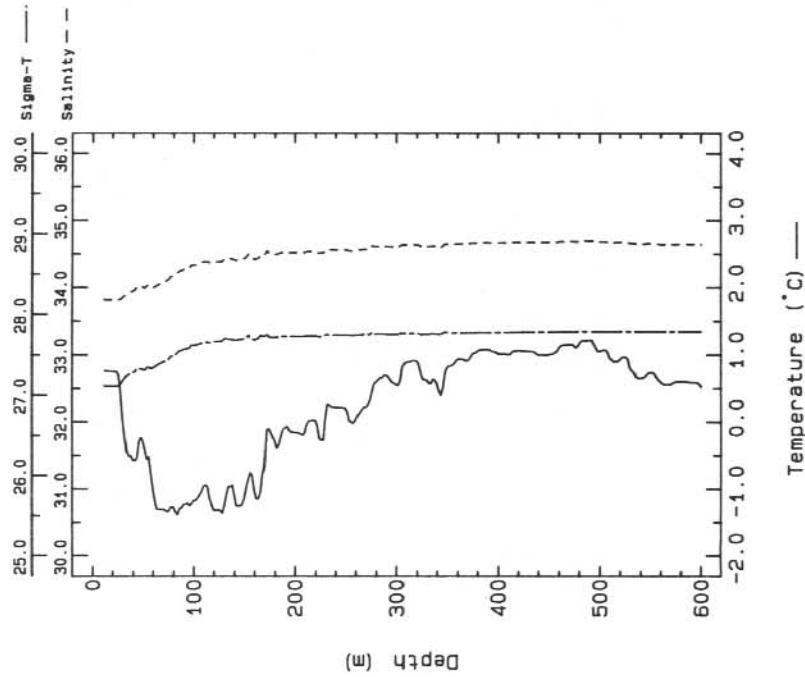


Cruise: SIBEX2 Station: B  
06 JAN 1986 1211 GMT  
Latitude : 66°59'70S  
Longitude: 63°07'50E  
Depth: CTD 436 m Bottom 443 m



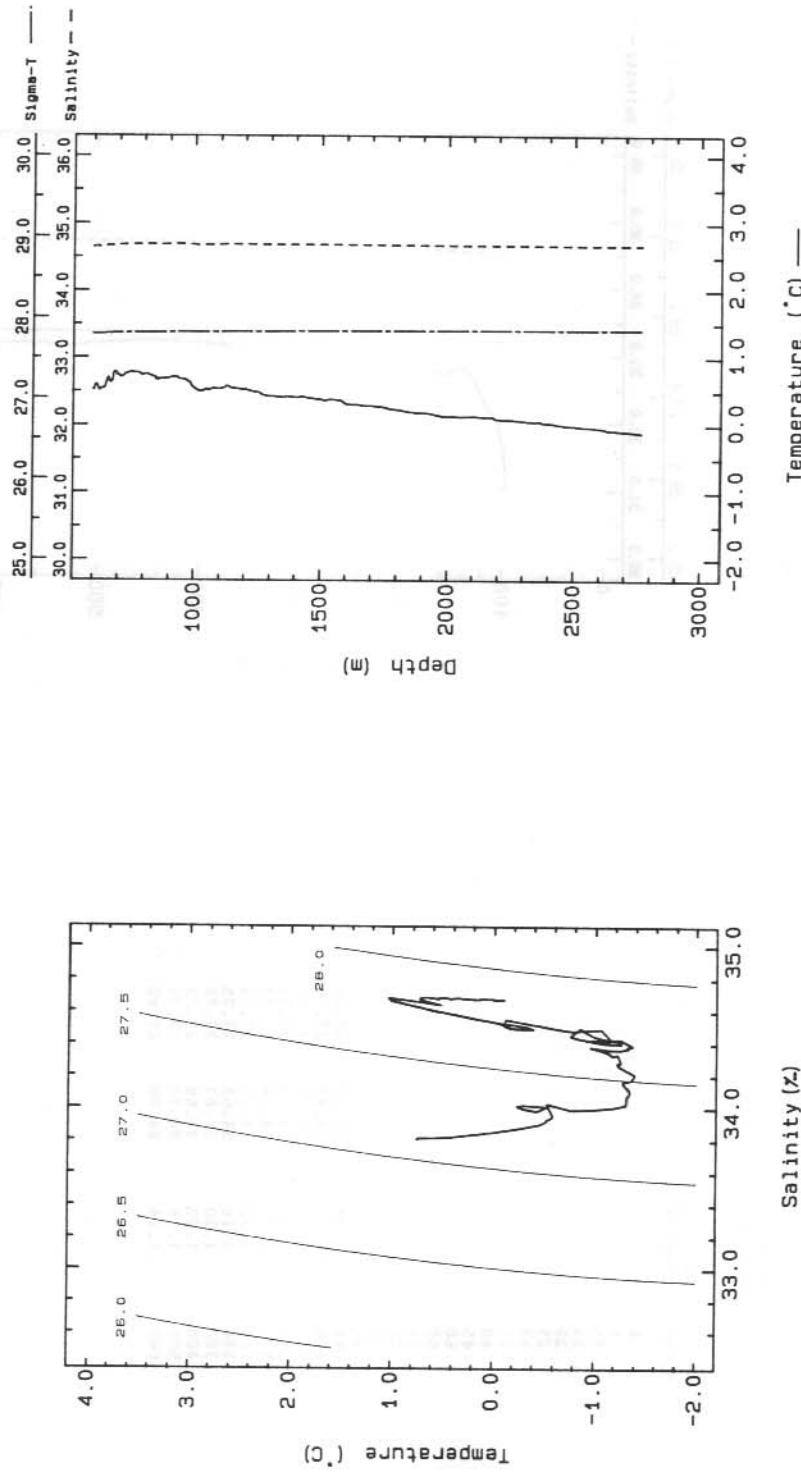
Cruise	: SIBEX2	Station number	: 9
Date	: 6 JAN 1985	Start Time	: 1923 GMT
Ship	: NELLA DAN	Position	: 66°00'.50S 62°59'.20E
Cast Depth (m)	: 2768	Bottom Depth (m)	: 3450
depth d bar	Temperature (deg C)	Salinity	Sigma-T ( $\sigma_t$ )
0			
5			
10	0.75	33.81	27.10
15	0.75	33.81	27.10
20	0.75	33.81	27.11
25	0.72	33.81	27.11
30	0.06	33.85	27.17
35	-0.49	33.91	27.25
40	-0.58	33.95	27.28
45	-0.42	34.01	27.33
50	-0.30	33.99	27.31
60	-1.00	34.00	27.34
70	-1.32	34.08	27.42
75	-1.34	34.11	27.44
80	-1.27	34.17	27.49
90	-1.23	34.27	27.57
100	-1.17	34.33	27.61
125	-1.33	34.38	27.67
150	-1.14	34.43	27.69
175	-0.13	34.50	27.71
200	-0.16	34.52	27.73
250	0.19	34.56	27.74
300	0.55	34.60	27.75
400	1.01	34.66	27.77
500	1.04	34.68	27.79
600	0.52	34.64	27.78
700	0.73	34.67	27.80
800	0.74	34.68	27.81
900	0.69	34.69	27.81
1000	0.55	34.67	27.81
1100	0.53	34.68	27.82
1200	0.53	34.68	27.82
1300	0.42	34.67	27.82
1400	0.41	34.68	27.83
1500	0.38	34.68	27.83
1750	0.26	34.67	27.83
2000	0.13	34.67	27.83
2500	-0.01	34.67	27.84

Cruise: SIBEX2 Station: 9  
 06 JAN 1985 1923 GMT  
 Latitude : 66° 00'.50S  
 Longitude: 62° 59'.20E  
 Depth: CTD 2768 m Bottom 3450 m



Cruise: SIBEX2 Station: 9  
06 JAN 1985 1923 GMT  
Latitude : 66° 00'.50S  
Longitude: 62° 59'.20E  
Depth: CTD 2768 m Bottom 3450 m

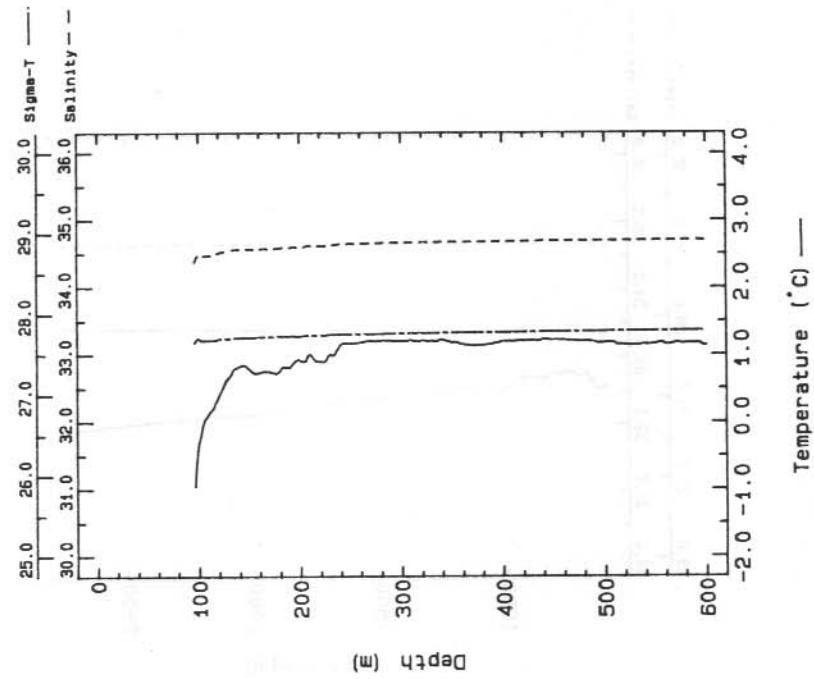
Cruise: SIBEX2 Station: 9  
06 JAN 1985 1923 GMT  
Latitude : 66° 00'.50S  
Longitude: 62° 59'.20E  
Depth: CTD 2768 m Bottom 3450 m



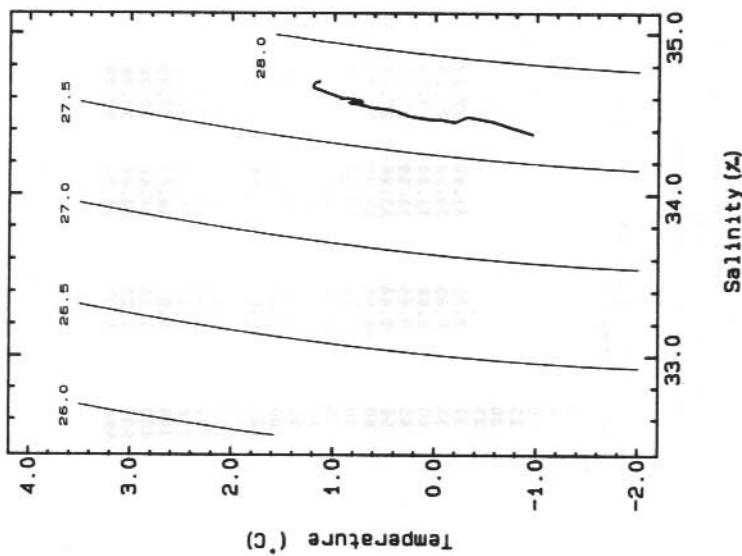
Cruise : SIBEX2  
 Station number : 10  
 Date : 7 JAN 1985  
 Start Time : 0423 GMT  
 Ship : NELLA DAN  
 Position : 65:00.30S 62:58.30E  
 Cast Depth (m) : 610  
 Bottom Depth (m) : Not Recorded

Depth d bar	Temperature (deg C)	Salinity	Sigma-T
0			
5			
10			
15			
20			
25			
30			
35			
40			
45			
50			
60			
70			
75			
80			
90			
96	-0.96	34.38	27.65
100	-0.12	34.49	27.71
125	0.55	34.54	27.70
150	0.78	34.57	27.71
175	0.12	34.58	27.72
200	0.92	34.60	27.73
250	1.16	34.65	27.75
300	1.20	34.67	27.76
400	1.20	34.68	27.78
500	1.18	34.70	27.79
600	1.14	34.70	27.80

Cruise: SIBEX2 Station: 10  
 07 JAN 1985 0423 GMT  
 Latitude : 65:00.30S  
 Longitude: 62:58.30E  
 Depth: CTD 610 m Bottom NR

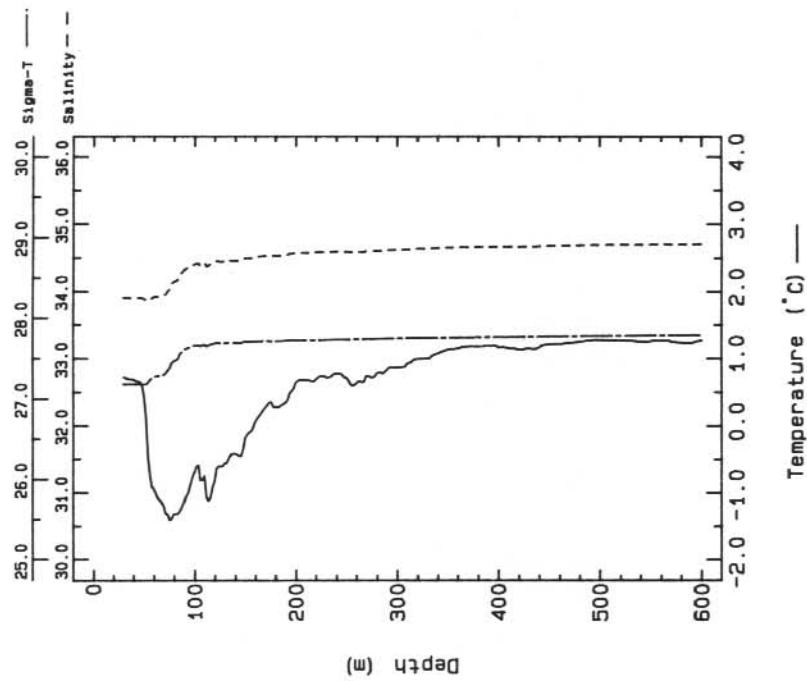


Cruise: SIBEX2 Station: 10  
07 JAN 1985 0423 GMT  
Latitude : 65.00.30S  
Longitude: 62.58.30E  
Depth: CTD 610 m Bottom NR

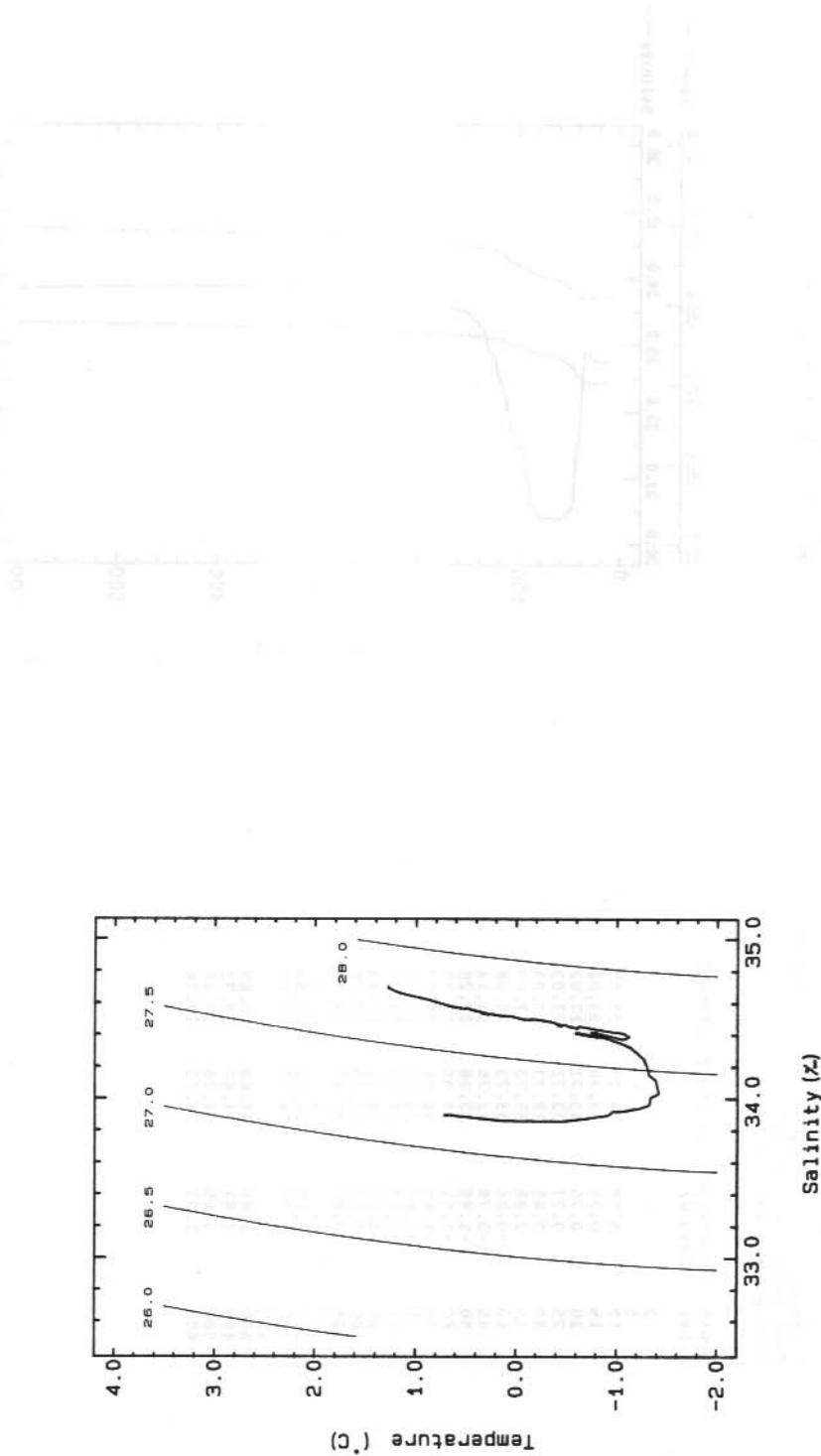


Cruise : SIBEX2  
 Station: 11  
 Station number : 11  
 Date : 07 JAN 1985  
 Start Time : 1101 GMT  
 Ship : NELLA DAN  
 Position : 63:59.80S 63:00.10E  
 Cast Depth (m) : 610  
 Bottom Depth (m) : Not Recorded

Depth d bar	Temperature (deg C)	Salinity	Sigma-T
0			
5			
10			
15			
20			
25	0.71	33.90	27.17
30	0.69	33.90	27.18
35	0.68	33.89	27.18
40	0.65	33.89	27.18
45	0.65	33.88	27.18
50	0.44	33.88	27.18
60	-0.96	33.92	27.27
70	-1.22	33.94	27.30
75	-1.38	34.02	27.37
80	-1.32	34.15	27.48
90	-1.14	34.32	27.61
100	-0.69	34.41	27.66
125	-0.61	34.44	27.68
150	-0.17	34.50	27.71
175	0.35	34.54	27.71
200	0.64	34.58	27.73
250	0.71	34.59	27.74
300	0.87	34.62	27.75
400	1.16	34.66	27.76
500	1.28	34.69	27.78
600	1.27	34.71	27.79



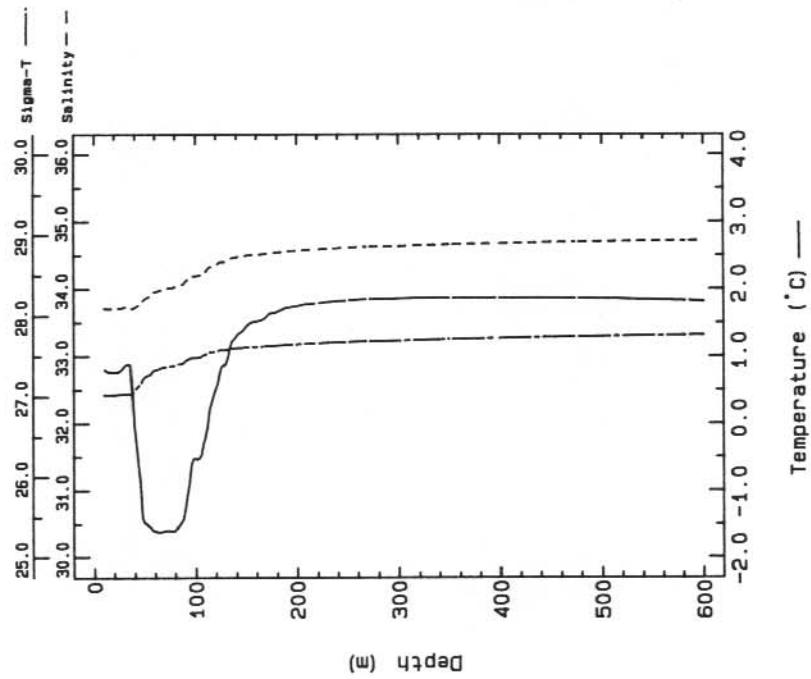
Cruise: SIBEX2 Station: 11  
07 JAN 1985 1101 GMT  
Latitude : 63:59.80S  
Longitude: 63:00.10E  
Depth: CTD 610 m Bottom NR



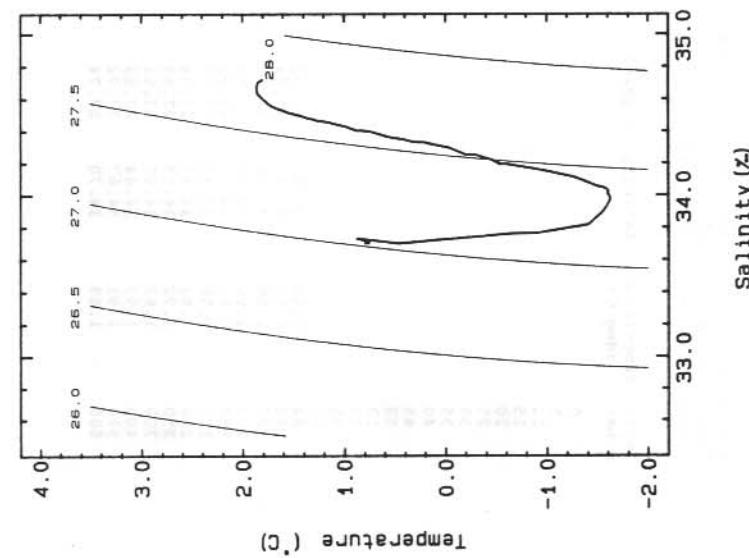
Cruise : SIBEX2  
 Station: 12  
 Station number : 12  
 Date : 7 JAN 1985  
 Start Time : 1715 GMT  
 Ship : NELLA DAN  
 Position : 62°59.70S 62°59.90E  
 Cast Depth (m) : 610  
 Bottom Depth (m) : Not Recorded

Depth d bar	Temperature (deg C)	Salinity	Sigma-T
0			
5	0.79	33.70	27.02
10	0.75	33.70	27.02
15	0.75	33.71	27.02
20	0.75	33.71	27.03
25	0.77	33.71	27.03
30	0.85	33.73	27.03
35	0.88	33.73	27.03
40	-0.04	33.73	27.08
45	-0.78	33.76	27.14
50	-1.48	33.86	27.25
60	-1.61	33.96	27.33
70	-1.60	34.01	27.37
75	-1.60	34.02	27.38
80	-1.60	34.03	27.39
90	-1.27	34.11	27.44
100	-0.53	34.19	27.48
125	0.80	34.40	27.58
150	1.45	34.50	27.61
175	1.64	34.54	27.63
200	1.75	34.57	27.65
250			
300	1.86	34.63	27.69
400	1.87	34.67	27.72
500	1.85	34.70	27.75
600	1.81	34.72	27.76

Cruise: SIBEX2 Station: 12  
 07 JAN 1985 1715 GMT  
 Latitude : 62°59.70S  
 Longitude: 62°59.90E  
 Depth: CTD 610 m Bottom NR



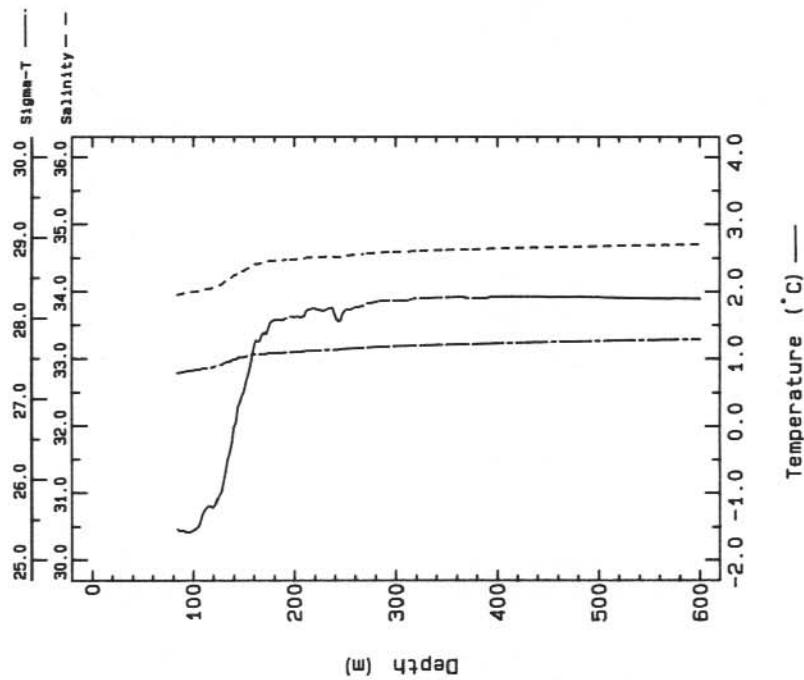
Cruise: SIBEX2 Station: 12  
07 JAN 1985 1715 GMT  
Latitude : 62°59'70S  
Longitude: 62°59'90E  
Depth: CTD 610 m Bottom NR



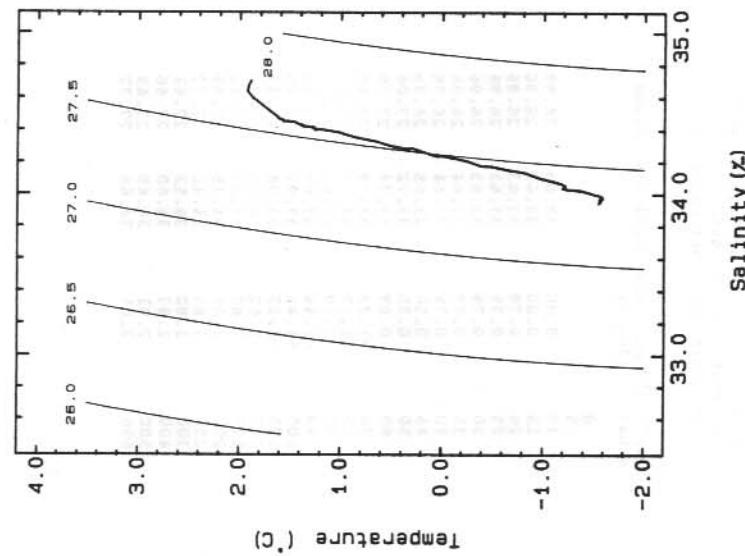
Cruise : SIBEX2  
 Station number : 13  
 Date : 8 JAN 1985  
 Start Time : 0057 GMT  
 Ship : NELLA DAN  
 Position : 62:00.30S 63:00.50E  
 Cast Depth (m) : 610  
 Bottom Depth (m) : Not Recorded

Depth d bar	Temperature (deg C)	Salinity	Sigma-T
0			
5			
10			
15			
20			
25			
30			
35			
40			
45			
50			
60			
70			
75			
80			
84	-1.55	33.95	27.32
90	-1.55	33.97	27.34
100	-1.56	33.99	27.35
125	-1.06	34.09	27.42
150	0.51	34.31	27.52
175	1.50	34.45	27.57
200	1.62	34.47	27.58
250	1.72	34.53	27.62
300	1.87	34.59	27.66
400	1.93	34.64	27.69
500	1.91	34.67	27.72
600	1.89	34.70	27.74

Cruise: SIBEX2 Station: 13  
 OB JAN 1985 0057 GMT  
 Latitude : 62: 00. 30S  
 Longitude: 63: 00. 50E  
 Depth: CTD 610 m Bottom NR

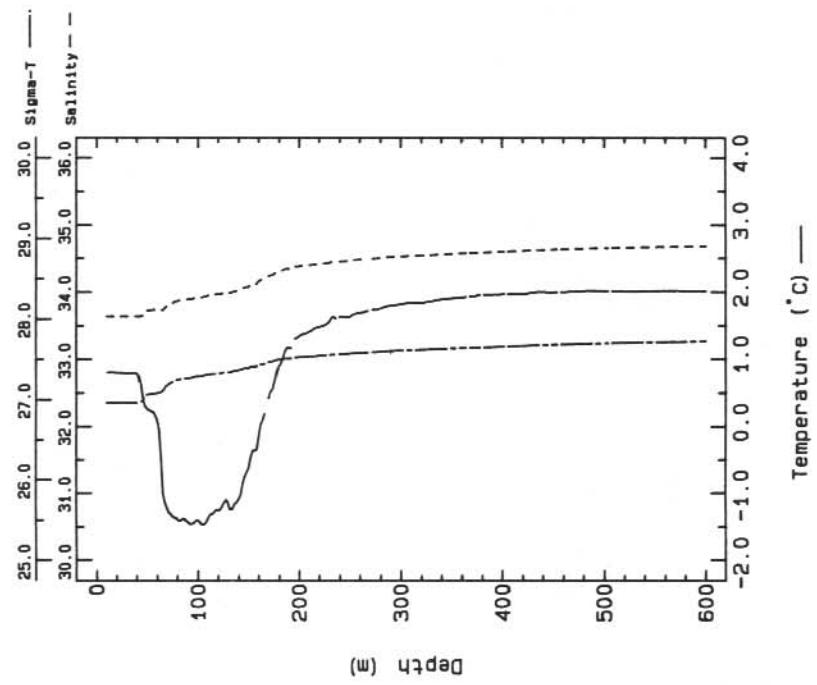


Cruise: SIBEX2 Station: 13  
08 JAN 1985 0057 GMT  
Latitude : 62° 00' 30S  
Longitude: 63° 00' 50E  
Depth: CTD 610 m Bottom NR

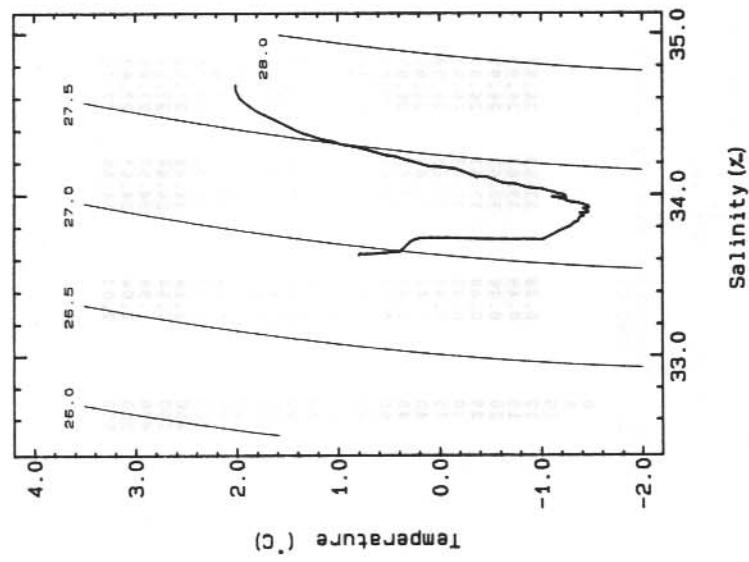


Cruise : SIBEX2  
 Station number : 14  
 Date : 8 JAN 1985  
 Start Time : 0729 GMT  
 Ship : NEELA DAN  
 Position : 61:00.00S 63:00.50E  
 Cast Depth (m) : 608  
 Bottom Depth (m) : Not Recorded

Depth d bar	Temperature (deg C)	Salinity	Sigma-T
0	0.80	33.63	26.95
5	0.80	33.63	26.96
10	0.80	33.63	26.96
15	0.80	33.63	26.96
20	0.79	33.63	26.96
25	0.79	33.63	26.96
30	0.79	33.63	26.96
35	0.79	33.64	26.96
40	0.79	33.64	26.96
45	0.50	33.65	26.99
50	0.25	33.72	27.06
60	0.09	33.74	27.08
70	-1.23	33.79	27.18
75	-1.35	33.83	27.22
80	-1.39	33.86	27.25
90	-1.44	33.89	27.27
100	-1.41	33.92	27.29
125	-1.17	33.98	27.33
150	-0.62	34.08	27.39
175	0.63	34.27	27.48
200	1.35	34.38	27.53
250	1.63	34.46	27.57
300	1.82	34.53	27.61
400	1.97	34.60	27.66
500	2.01	34.65	27.69
600	2.01	34.68	27.72

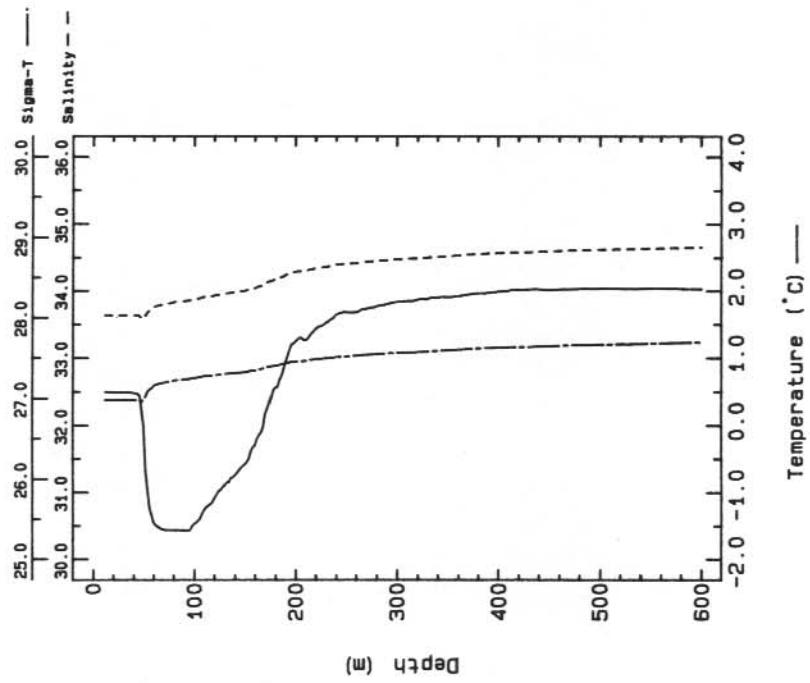


Cruise: SIBEX2 Station: 14  
08 JAN 1985 0729 GMT  
Latitude : 61: 00.00S  
Longitude: 63: 00.50E  
Depth: CTD 608 m Bottom NR

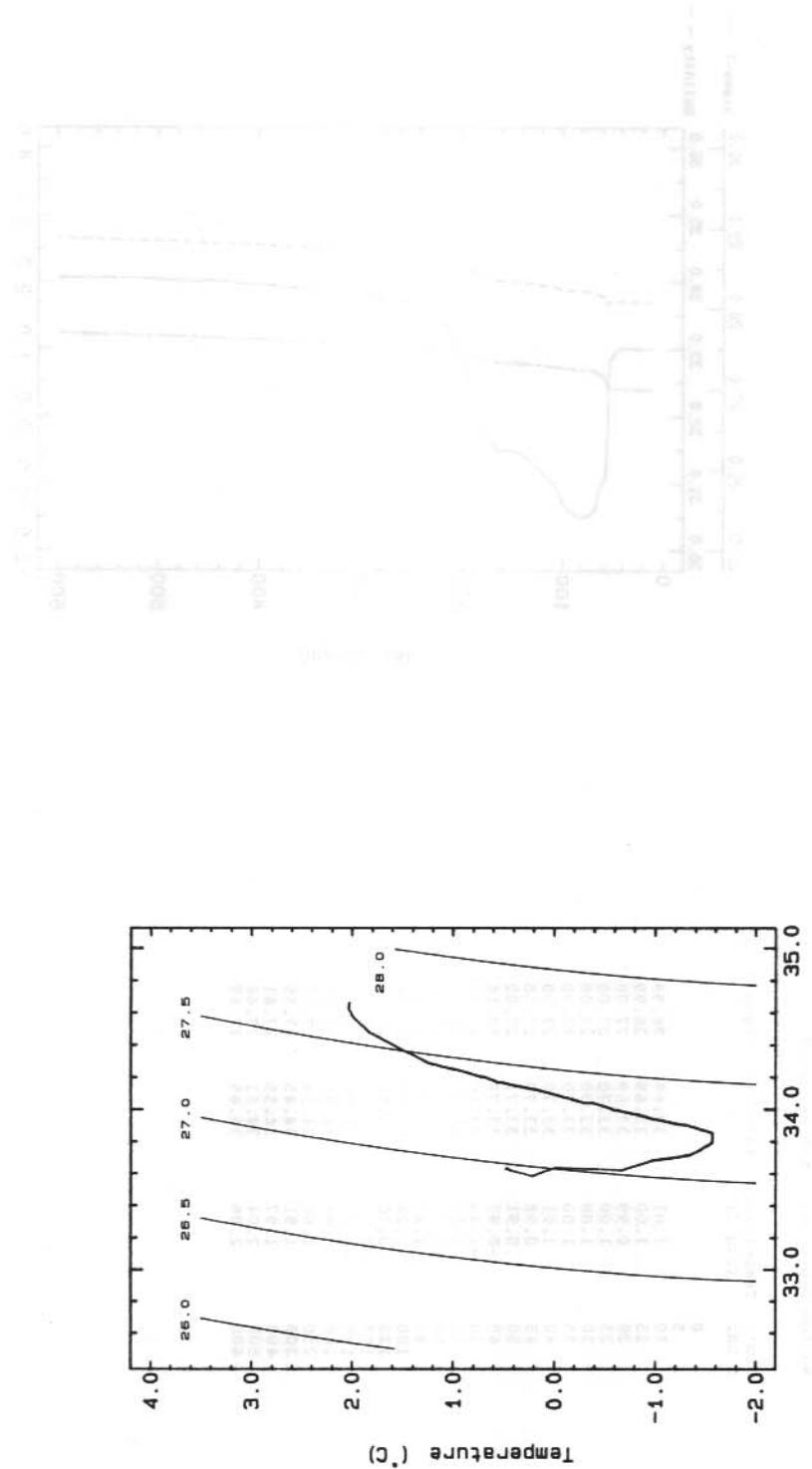


Cruise : SIBEX2  
 Station number : 15  
 Date : 8 JAN 1985  
 Start Time : 1400 GMT  
 Ship : NEELA DAN  
 Position : 60.00.20S 63.00.20E  
 Cast Depth (m) : 610  
 Bottom Depth (m) : Not Recorded

Depth d bar	Temperature (deg C)	Salinity	Sigma-T
0			
5			
10	0.48	33.63	26.97
12			
15	0.49	33.63	26.97
20	0.48	33.63	26.97
25	0.48	33.63	26.97
30	0.48	33.63	26.97
35	0.48	33.63	26.98
40	0.47	33.63	26.98
45	0.45	33.62	26.97
50	0.00	33.64	27.00
60	-1.45	33.75	27.16
70	-1.57	33.79	27.19
75	-1.57	33.81	27.21
80	-1.57	33.83	27.22
90	-1.57	33.84	27.24
100	-1.47	33.87	27.25
125	-0.97	33.94	27.29
150	-0.58	34.00	27.33
175	0.38	34.15	27.40
200	1.25	34.29	27.46
250	1.68	34.41	27.52
300	1.84	34.48	27.57
400	1.99	34.57	27.63
500	2.04	34.63	27.67
600	2.03	34.66	27.70



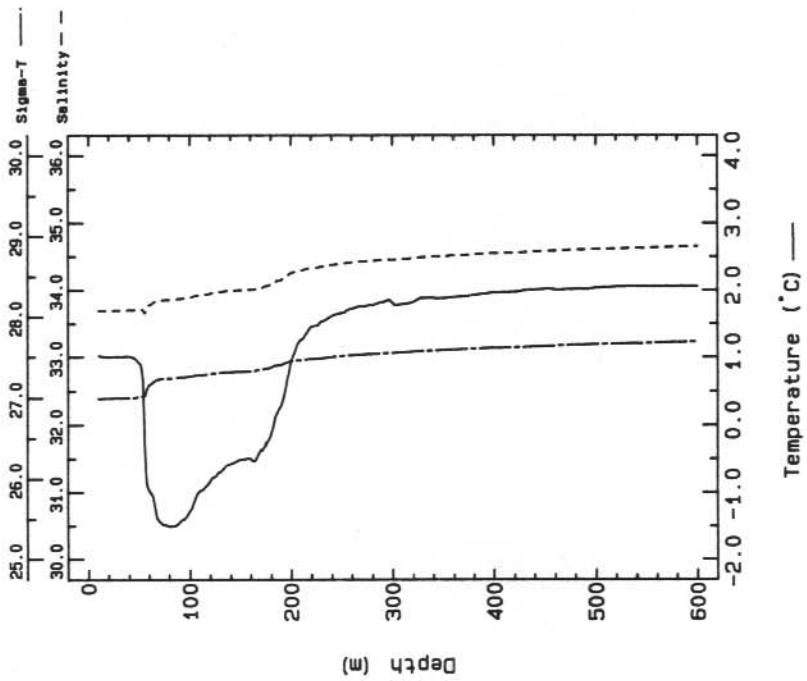
Cruise: SIBEX2 Station: 15  
08 JAN 1985 1400 GMT  
Latitude : 60.00.20S  
Longitude: 63.00.20E  
Depth: CTD 610 m Bottom NR



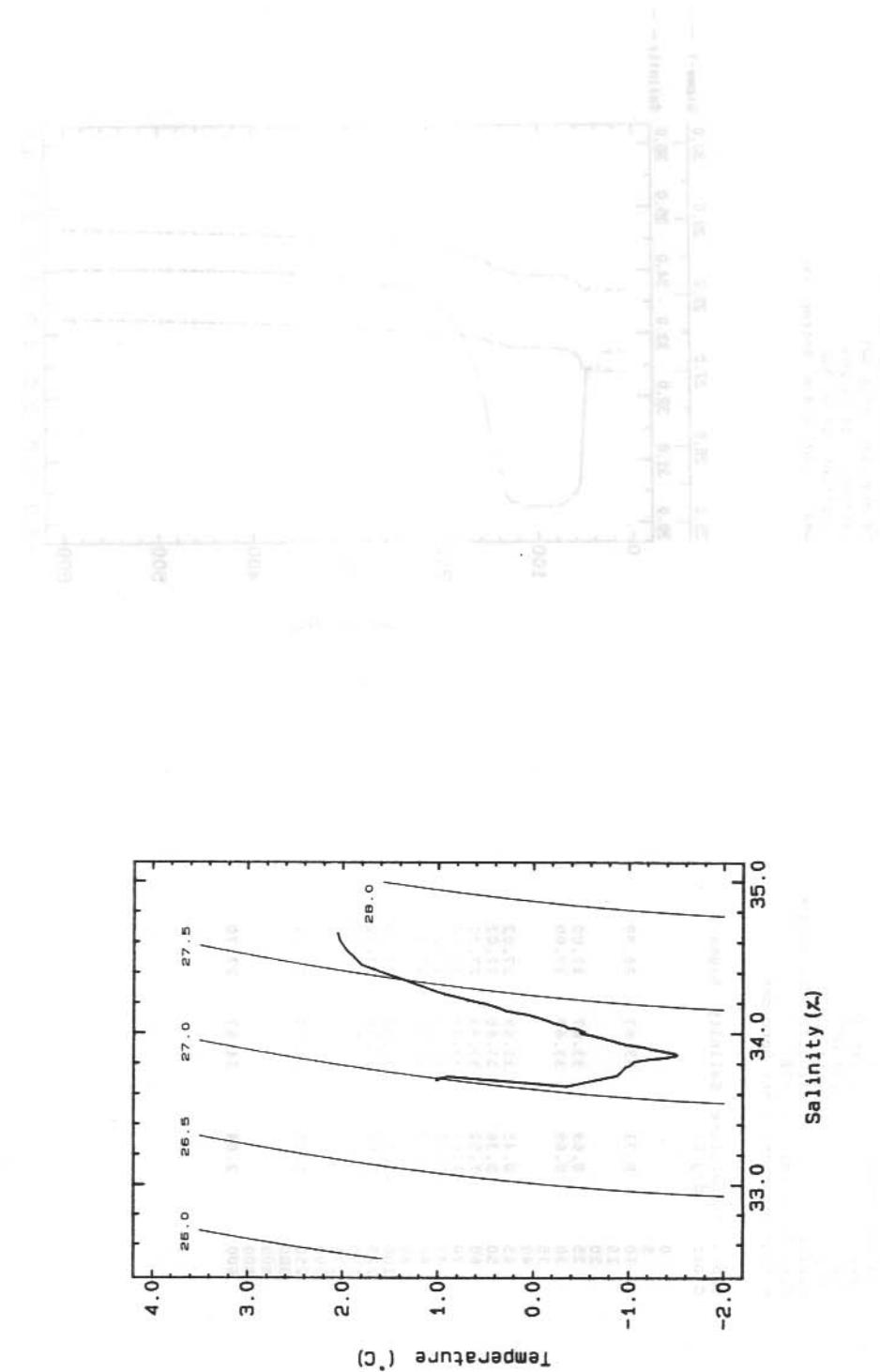
Cruise : SIBEX2  
 Station number : 16  
 Date : 9 JAN 1985  
 Start Time : 0356 GMT  
 Ship : NELLA DAN  
 Position : 60:00.00S 68:00.00E  
 Cast Depth (m) : 608  
 Bottom Depth (m) : Not Recorded

Depth d bar	Temperature (deg C)	Salinity	Sigma-T <sup>10</sup>
0			
5	1.01	33.69	26.99
10	1.00	33.69	26.99
15	0.99	33.69	27.00
20	1.00	33.70	27.00
25	1.00	33.70	27.00
30	1.00	33.70	27.00
35	1.00	33.70	27.00
40	1.01	33.70	27.00
45	0.98	33.70	27.00
50	0.91	33.71	27.02
60	-0.97	33.78	27.16
70	-1.43	33.85	27.23
75	-1.49	33.85	27.24
80	-1.51	33.85	27.24
90	-1.44	33.87	27.25
100	-1.28	33.89	27.26
125	-0.76	33.96	27.30
150	-0.51	34.00	27.32
175	-0.29	34.06	27.36
200	0.94	34.26	27.45
250	1.66	34.39	27.51
300	1.81	34.45	27.55
400	1.97	34.55	27.61
500	2.04	34.61	27.66
600	2.06	34.65	27.69

Cruise: SIBEX2 Station: 16  
 09 JAN 1985 0356 GMT  
 Latitude : 60:00.00S  
 Longitude: 68:00.00E  
 Depth: CTD 608 m Bottom NR

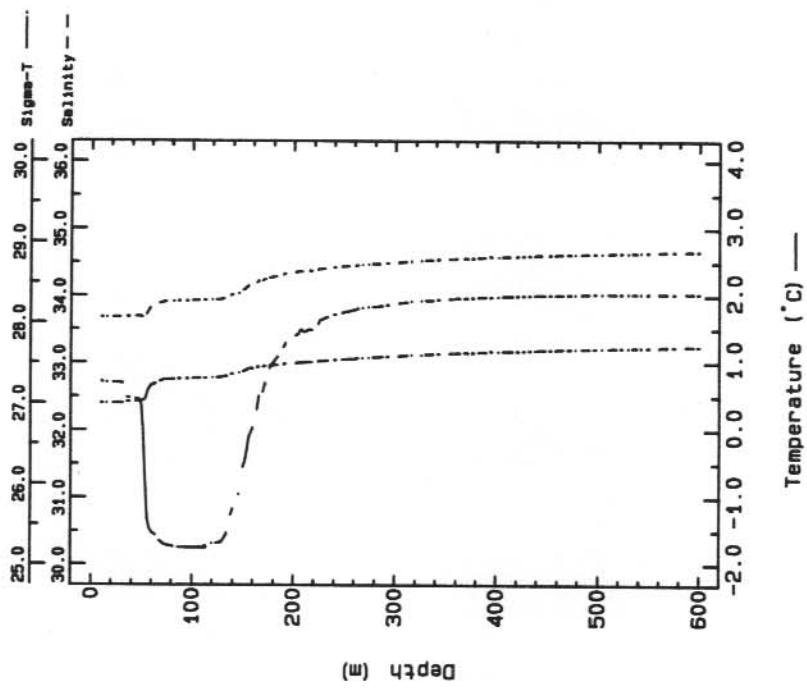


Cruise: SIBEX2 Station: 16  
09 JAN 1985 0356 GMT  
Latitude : 60.00.00S  
Longitude: 66.00.00E  
Depth: CTD 608 m Bottom NR

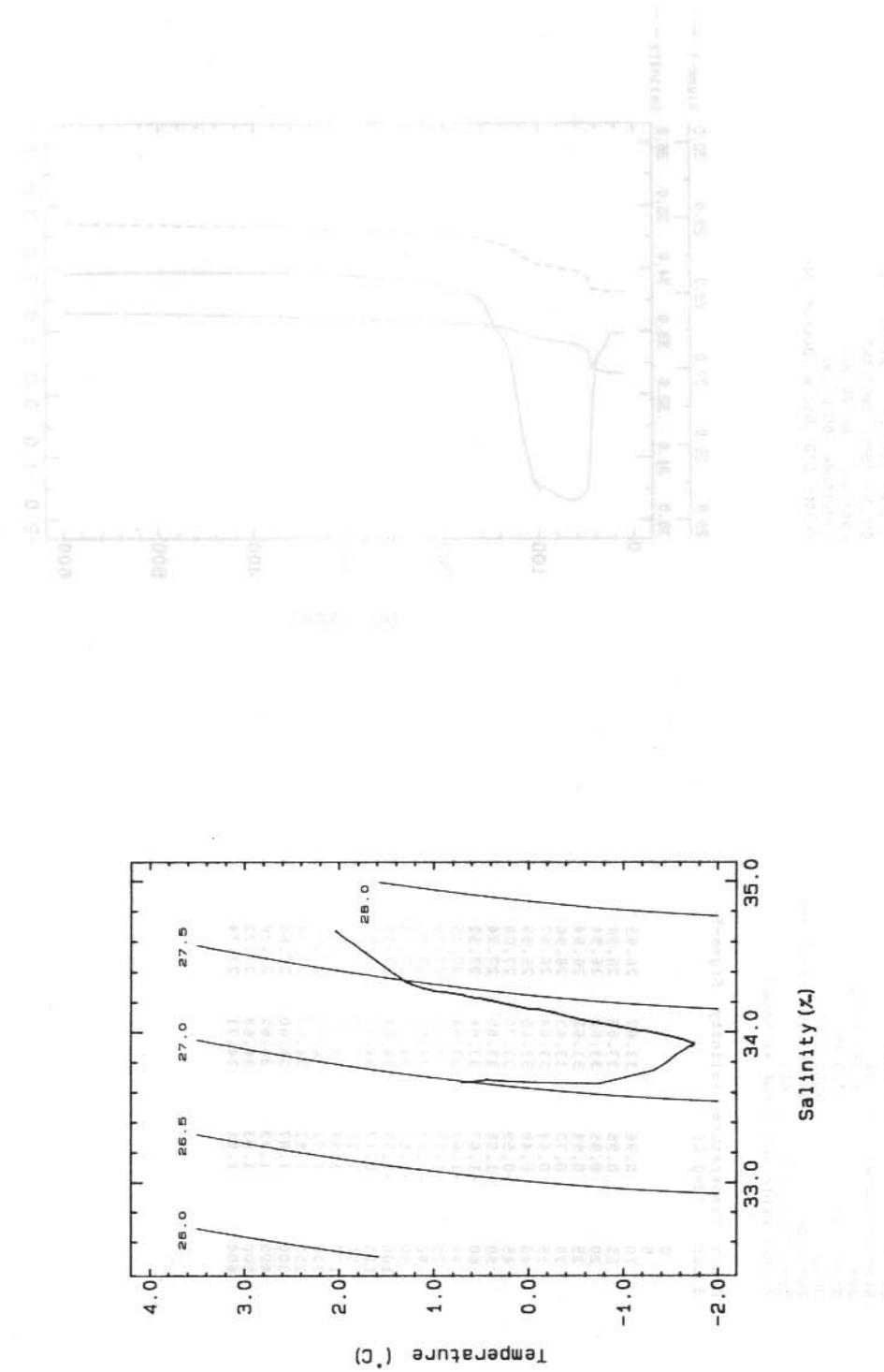


Cruise : SIBEX2  
 Station number : 17  
 Date : 9 JAN 1985  
 Start Time : 1158 GMT  
 Ship : NELLA DAN  
 Position : 61:00.30S 68:00.30E  
 Cast Depth (m) : 608  
 Bottom Depth (m) : Not Recorded

Depth d bar	Temperature (deg C)	Salinity	Sigma-T
0			
5	0.71	33.67	26.99
10			
15			
20	0.69	33.67	27.00
25	0.69	33.67	27.00
30			
35			
40			
45	0.45	33.69	27.02
50	0.36	33.68	27.02
60	-1.52	33.83	27.22
70	-1.67	33.89	27.28
75	-1.71	33.91	27.29
80	-1.73	33.90	27.29
90			
100	-1.75	33.92	27.30
125	-1.68	33.94	27.32
150	-0.54	34.08	27.39
175			
200	1.75	34.44	27.54
250			
300			
400			
500	2.04	34.67	27.70
600			

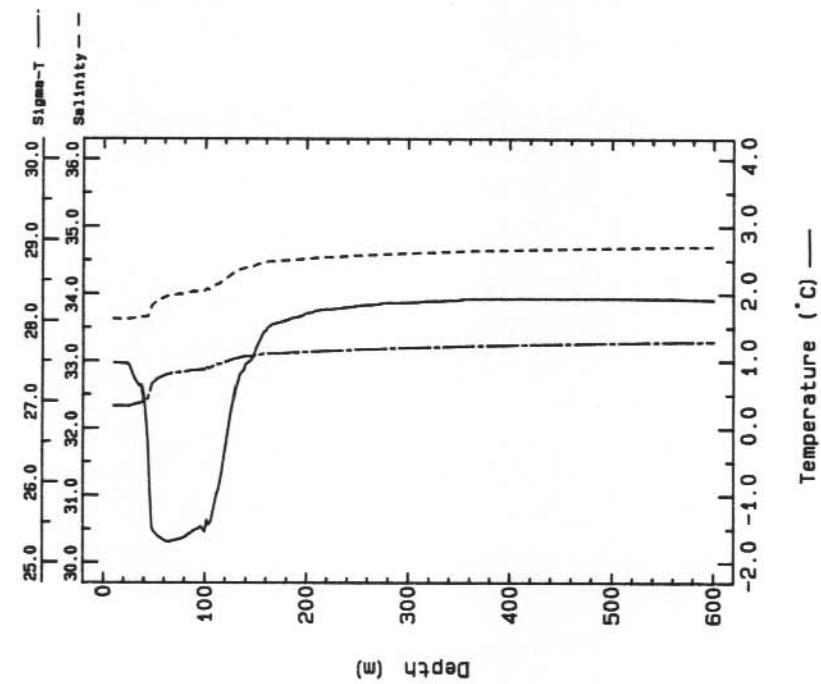


Cruise: SIBEX2 Station: 17  
09 JAN 1985 1158 GMT  
Latitude : 61:00.30S  
Longitude: 68:00.30E  
Depth: CTD 608 m Bottom NR

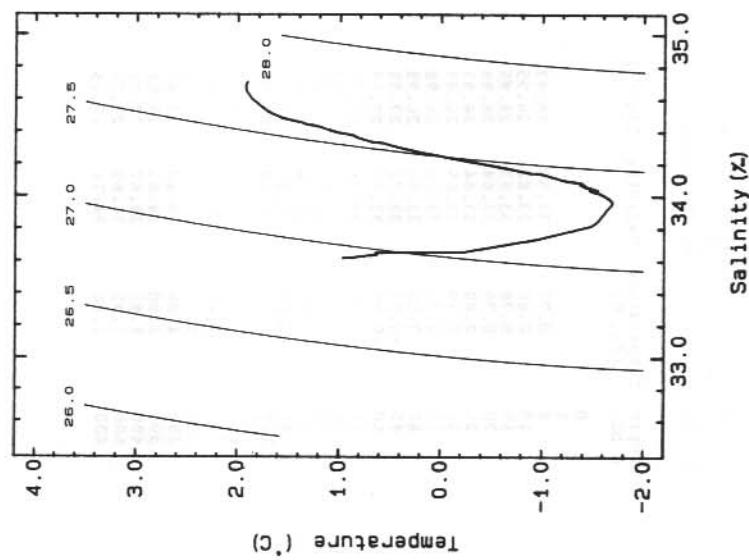


Cruise : SIBEX2  
 Station: 18  
 Station number : 18  
 Date : 9 JAN 1985  
 Start Time : 1803 GMT  
 Ship : NELLA DAN  
 Position : 62:00.30S 68:00.30E  
 Cast Depth (m) : 612  
 Bottom Depth (m) : Not Recorded

Depth d bar	Temperature (deg C)	Salinity	Sigma-T
0			
5	0.96	33.62	26.93
10	0.96	33.62	26.94
15	0.95	33.62	26.94
20	0.95	33.62	26.94
25	0.94	33.62	26.94
30	0.77	33.63	26.96
35	0.64	33.64	26.97
40	0.49	33.65	26.99
45	-0.59	33.70	27.08
50	-1.55	33.85	27.24
60	-1.67	33.94	27.32
70	-1.67	33.98	27.35
75	-1.65	33.99	27.36
80	-1.63	34.00	27.36
90	-1.51	34.03	27.38
100	-1.55	34.04	27.39
125	0.17	34.27	27.51
150	1.18	34.43	27.57
175	1.59	34.49	27.59
200	1.71	34.52	27.61
250	1.82	34.57	27.64
300	1.87	34.60	27.66
400	1.93	34.65	27.70
500	1.93	34.68	27.72
600	1.91	34.71	27.74

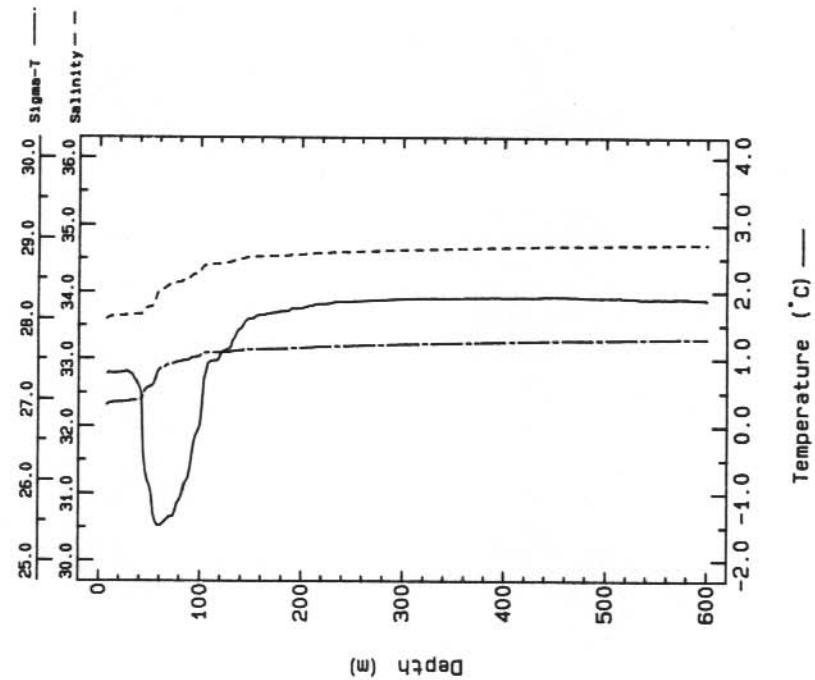


Cruise: SIBEX2 Station: 18  
09 JAN 1985 1803 GMT  
Latitude : 62.00.30S  
Longitude: 68.00.30E  
Depth: CTD 612 m Bottom NR

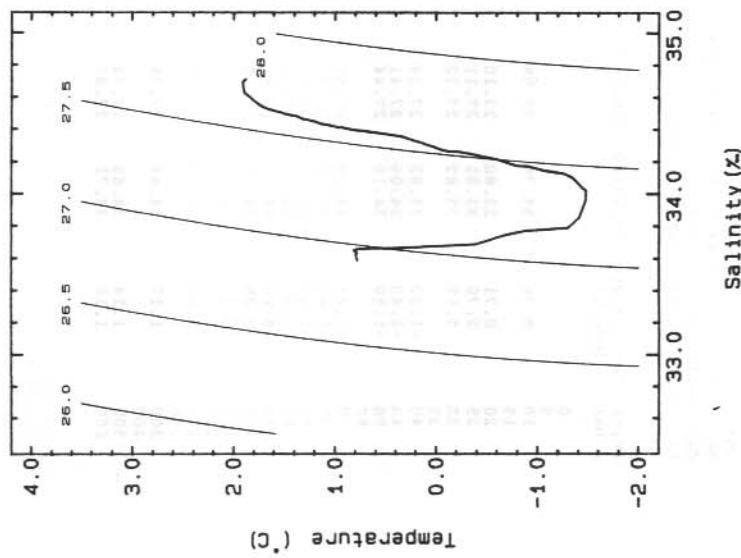


Cruise : SIBEX2  
 Station number : 19  
 Date : 19 JAN 1985  
 Start Time : 0001 GMT  
 Ship : NELLA DANA  
 Position : 62°59.90S 67°58.50E  
 Cast Depth (m) : 612  
 Bottom Depth (m) : Not Recorded

Depth d bar	Temperature (deg C)	Salinity	Sigma-T
0			
5	0.77	33.59	26.92
8	0.80	33.62	26.95
10	0.78	33.63	26.96
15	0.79	33.64	26.96
20	0.80	33.64	26.97
25	0.79	33.65	26.98
30	0.79	33.66	26.98
35	0.73	33.66	26.98
40	0.59	33.66	26.99
45	-0.53	33.72	27.09
50	-0.88	33.77	27.16
60	-1.49	34.02	27.37
70	-1.35	34.10	27.44
75	-1.30	34.11	27.45
80	-1.10	34.14	27.46
90	-0.62	34.21	27.50
100	0.02	34.29	27.53
125	1.13	34.43	27.58
150	1.60	34.52	27.61
175	1.69	34.54	27.62
200	1.76	34.56	27.64
250	1.86	34.60	27.66
300	1.90	34.63	27.68
400	1.91	34.67	27.71
500	1.91	34.69	27.73
600	1.88	34.71	27.75

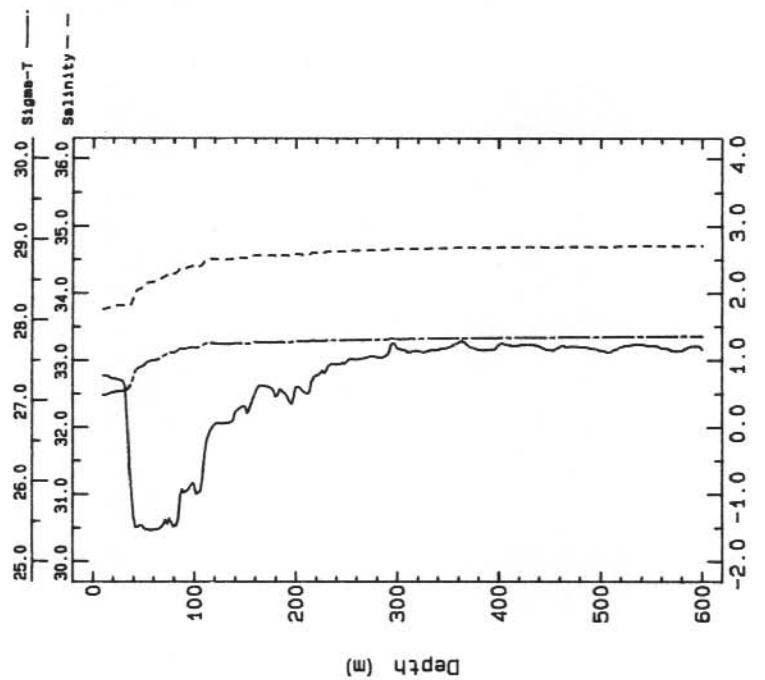


Cruise: SIBEX2 Station: 19  
10 JAN 1985 0001 GMT  
Latitude : 62° 59.90S  
Longitude: 67° 58.50E  
Depth: CTD 612 m Bottom NR

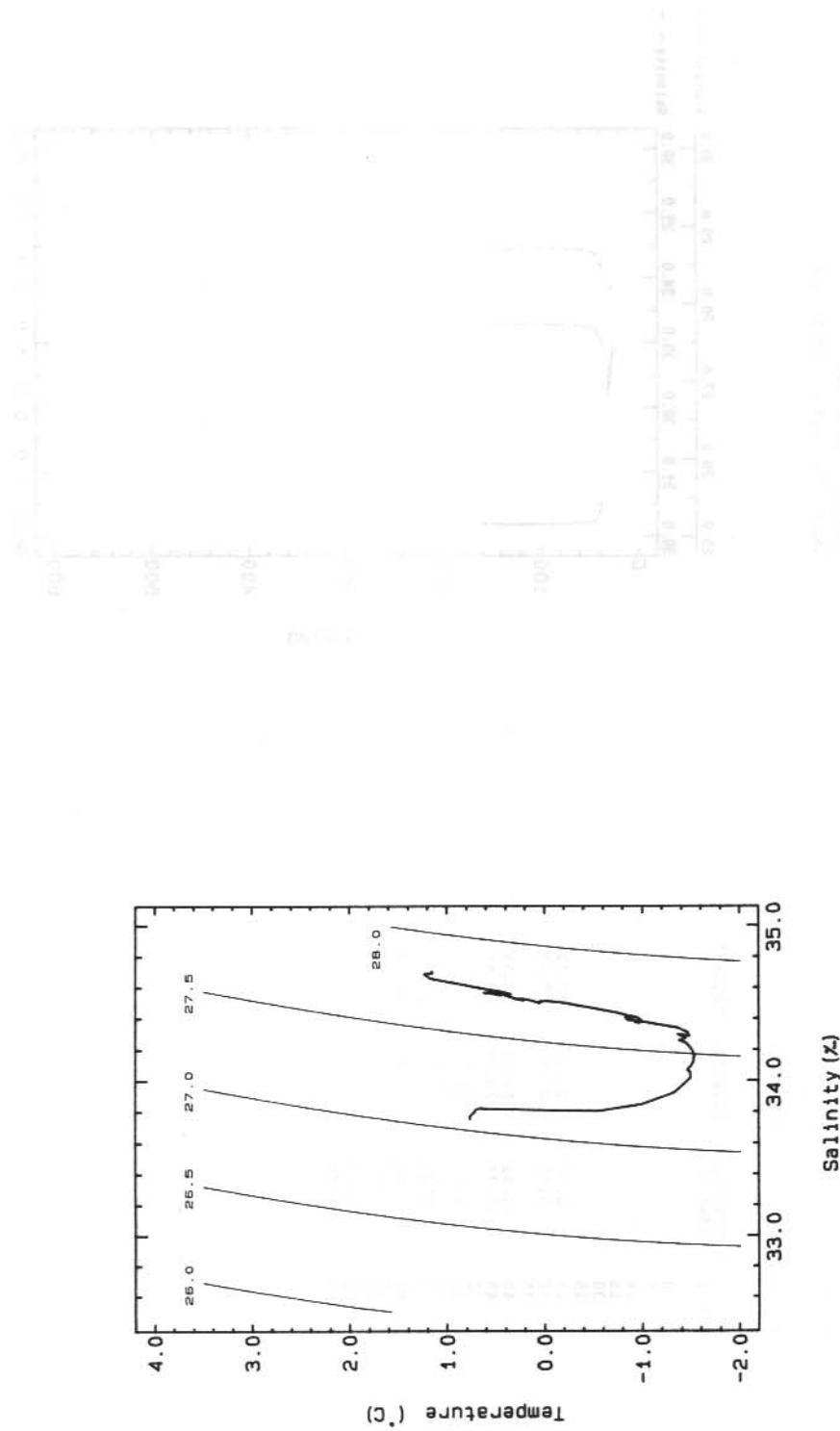


Cruise : SIBEX2  
 Station: 20  
 Station number : 20  
 Date : 10 JAN 1985  
 Start Time : 0756 GMT  
 Ship : NELLA DAN  
 Position : 64:00.10S 68:00.20E  
 Cast Depth (m) : 610  
 Bottom Depth (m) : Not Recorded

Depth d bar	Temperature (deg C)	Salinity	Sigma-T
0			
5	0.76	33.75	27.06
10			
15	0.71	33.80	27.10
20	0.70	33.81	27.11
25	0.68	33.82	27.12
30			
35	-1.32	33.92	27.29
40	-1.48	34.06	27.41
45	-1.50	34.10	27.44
50			
60			
70	-1.45	34.24	27.56
75	-1.40	34.29	27.59
80	-1.49	34.28	27.59
90	-0.97	34.37	27.64
100	-0.86	34.39	27.65
125	0.05	34.50	27.70
150	0.31	34.53	27.71
175			
200	0.60	34.59	27.74
250			
300	1.17	34.66	27.76
400			
500	1.14	34.69	27.79
600	1.16	34.71	27.80



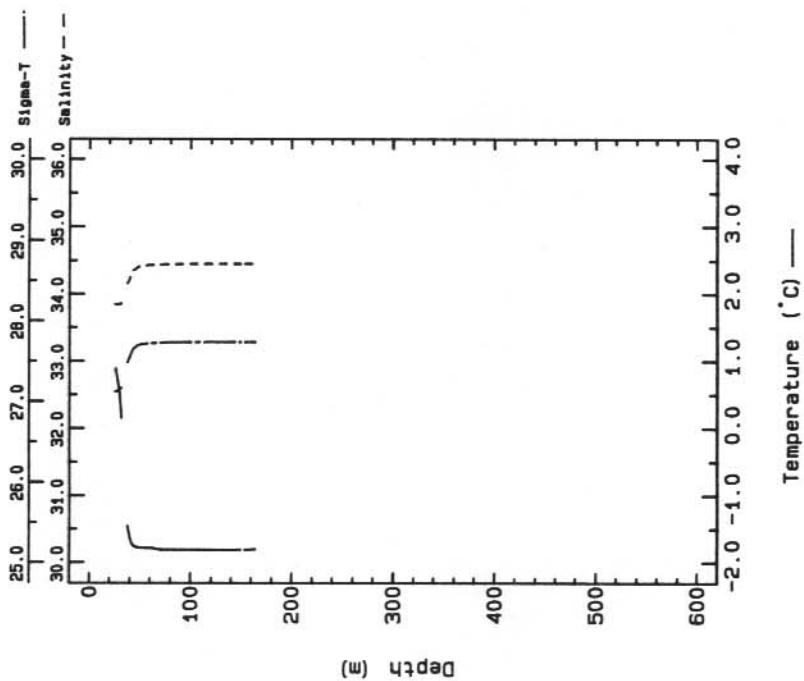
Cruise: SIBEX2 Station: 20  
10 JAN 1985 0756 GMT  
Latitude : 64.00.10S  
Longitude: 68.00.20E  
Depth: CTD 610 m Bottom NR



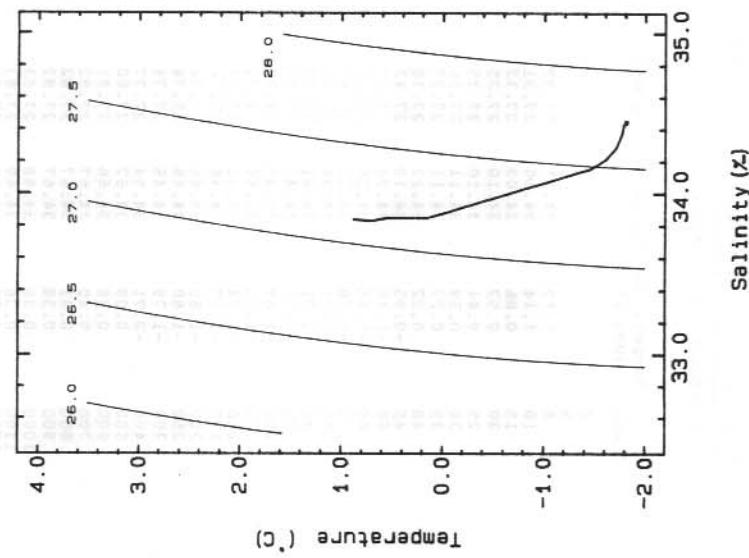
Cruise : SIBEX2  
 Station number : 21  
 Date : 10 JAN 1985  
 Start Time : 1445 GMT  
 Ship : NELLA DAN  
 Position : 65°01'.50S 68°02'.80E  
 Cast Depth (m) : 294  
 Bottom Depth (m) : Not Recorded

Depth d bar	Temperature (deg C)	Salinity	Sigma-T
0			
5			
10			
15			
20			
25	0.88	33.84	27.12
30	0.55	33.85	27.15
35			
40	-1.61	34.22	27.54
45	-1.77	34.36	27.66
50	-1.79	34.41	27.70
60	-1.79	34.43	27.72
70	-1.81	34.44	27.73
75	-1.82	34.44	27.73
80	-1.82	34.45	27.73
90	-1.82	34.45	27.73
100	-1.81	34.45	27.73
125	-1.82	34.45	27.74
150	-1.81	34.45	27.73

Cruise: SIBEX2 Station: 21  
 10 JAN 1985 1445 GMT  
 Latitude : 65° 01'.50S  
 Longitude: 68° 02'.80E  
 Depth: CTD 294 m Bottom NR



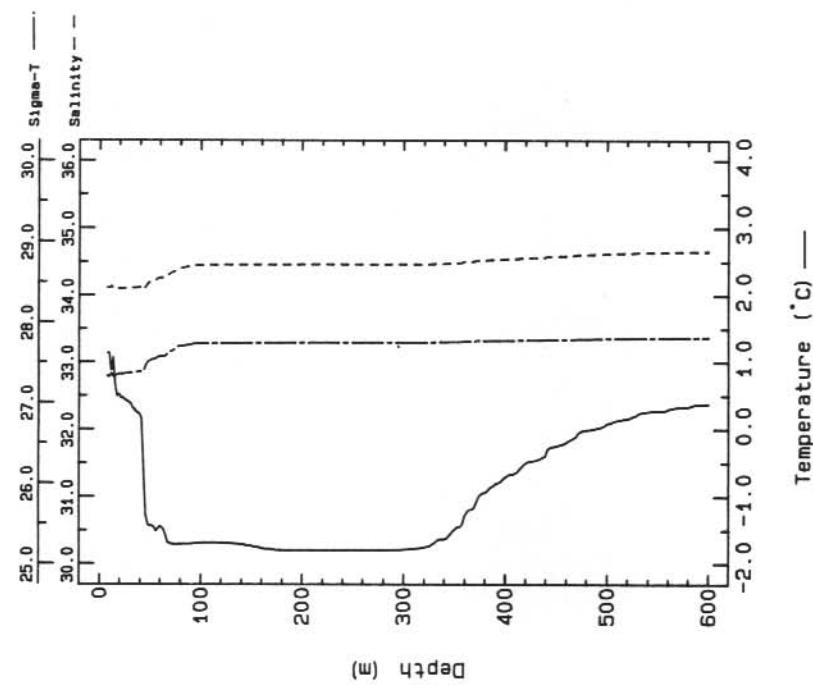
Cruise: SIBEX2 Station: 21  
10 JAN 1985 1445 GMT  
Latitude : 65° 01.50S  
Longitude: 66° 02.80E  
Depth: CTD 294 m Bottom NR



Cruise : SIBEX2  
 Station number : 22  
 Date : 10 JAN 1985  
 Start Time : 2128 GMT  
 Ship : NELIA DAN  
 Position : 66:00.10S 67:59.10E  
 Cast Depth (m) : 2720  
 Bottom Depth (m) : 2730 m

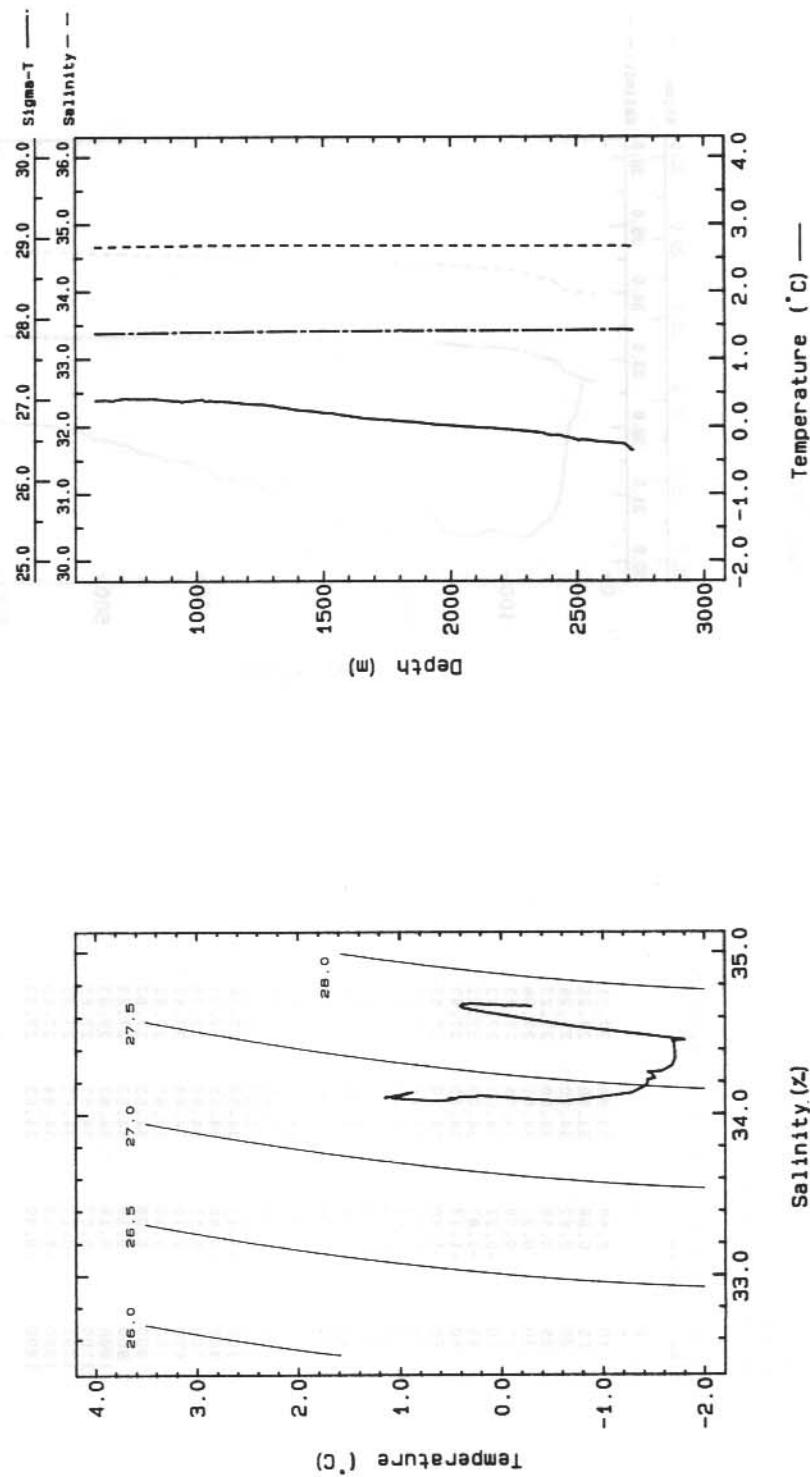
Depth bar  
 (deg C)

Depth bar	Temperature (deg C)	Salinity	Sigma-T
0			
5	1.12	34.11	27.32
8	1.14	34.10	27.31
10	0.86	34.09	27.32
15	0.52	34.10	27.35
20	0.44	34.10	27.35
25	0.39	34.11	27.36
30	0.39	34.11	27.36
35	0.29	34.11	27.37
40	0.22	34.12	27.38
45	-0.95	34.10	27.42
50	-1.44	34.20	27.52
60	-1.44	34.26	27.57
70	-1.70	34.32	27.63
75	-1.71	34.36	27.66
80	-1.71	34.41	27.70
90	-1.71	34.43	27.71
100	-1.69	34.45	27.73
125	-1.70	34.46	27.74
150	-1.74	34.45	27.74
175	-1.80	34.46	27.74
200	-1.80	34.46	27.74
250	-1.80	34.46	27.74
300	-1.79	34.46	27.74
400	-0.71	34.54	27.77
500	0.09	34.62	27.80
600	0.38	34.66	27.81
700	0.40	34.67	27.82
800	0.41	34.67	27.82
900	0.38	34.67	27.82
1000	0.38	34.68	27.83
1100	0.36	34.68	27.83
1200	0.33	34.68	27.83
1300	0.30	34.68	27.83
1400	0.24	34.68	27.83
1500	0.20	34.67	27.82
1750	0.09	34.68	27.84
2000	0.01	34.67	27.84
2500	-0.20	34.67	27.85



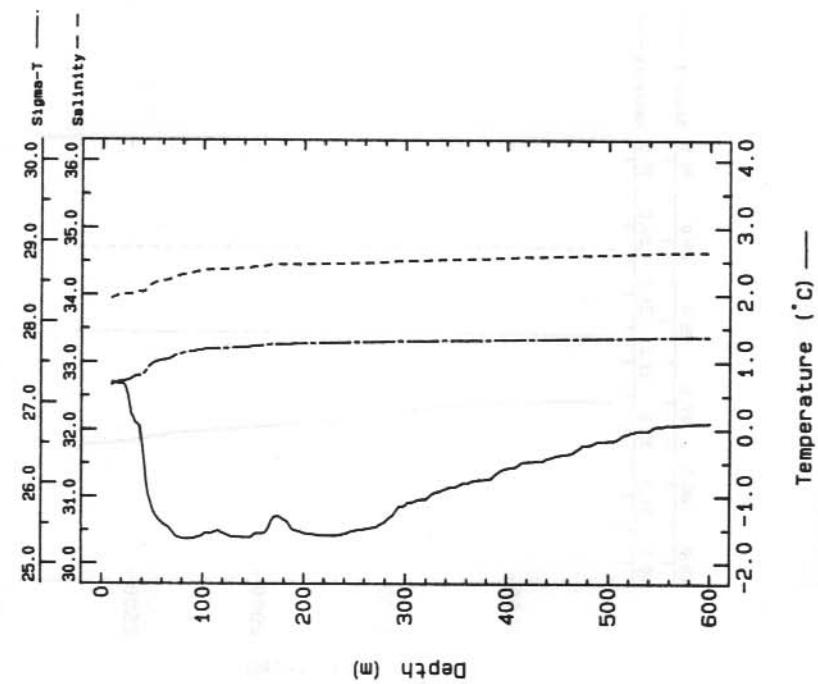
Cruise: SIBEX2 Station: 22  
10 JAN 1985 2128 GMT  
Latitude : 66:00.10S  
Longitude: 67:59.10E  
Depth: CTD 2720 m Bottom 2730 m

Cruise: SIBEX2 Station: 22  
10 JAN 1985 2128 GMT  
Latitude : 66:00.10S  
Longitude: 67:59.10E  
Depth: CTD 2720 m Bottom 2730 m



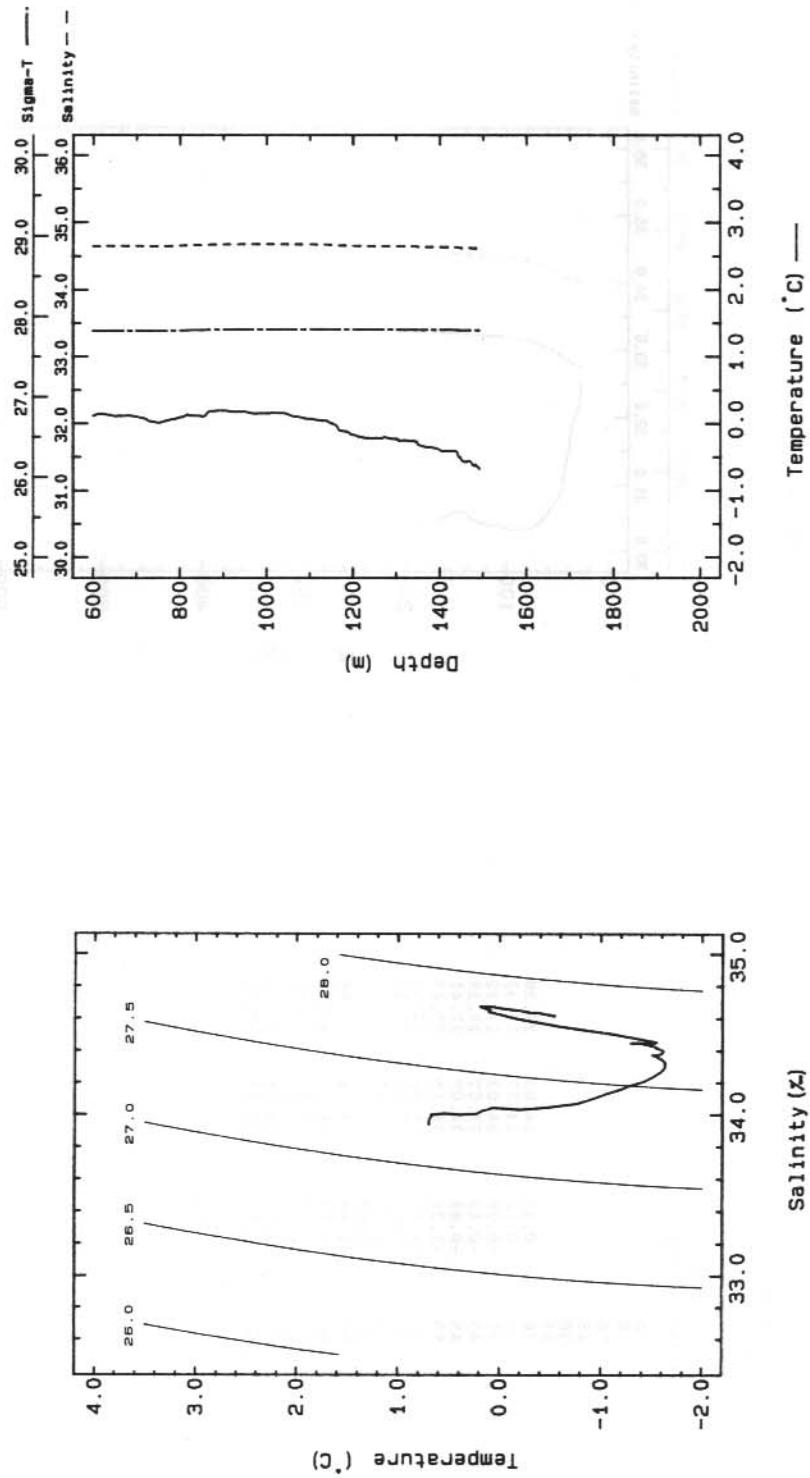
Cruise : SIBEX2  
 Station number : 23  
 Date : 11 JAN 1985  
 Start Time : 0700 GMT  
 Ship : NELLA DAN  
 Position : 67:00.00S 68:00.30E  
 Cast Depth (m) : 1514  
 Bottom Depth (m) : 1510 m

Depth (m)	Temperature (deg C)	Salinity	Sigma-T
0			
5	0.69	33.94	27.21
10	0.68	33.98	27.25
15	0.67	34.00	27.26
20	0.58	34.00	27.27
25	0.22	34.01	27.29
30	0.08	34.04	27.33
35	-0.21	34.03	27.33
40	-0.87	34.09	27.41
45	-1.17	34.15	27.47
50	-1.40	34.20	27.52
60	-1.52	34.24	27.56
70	-1.61	34.27	27.59
75	-1.63	34.30	27.60
80	-1.63	34.32	27.63
90	-1.58	34.35	27.65
100	-1.58	34.38	27.67
125	-1.58	34.41	27.70
150	-1.58	34.45	27.72
175	-1.30	34.45	27.73
200	-1.56	34.45	27.74
250	-1.51	34.47	27.74
300	-1.13	34.50	27.76
400	-0.58	34.55	27.77
500	-0.17	34.60	27.79
600	0.10	34.64	27.81
700	0.10	34.65	27.82
800	0.09	34.65	27.82
900	0.19	34.67	27.83
1000	0.15	34.67	27.83
1100	0.07	34.67	27.83
1200	-0.17	34.65	27.83
1300	-0.23	34.64	27.83
1400	-0.40	34.63	27.83



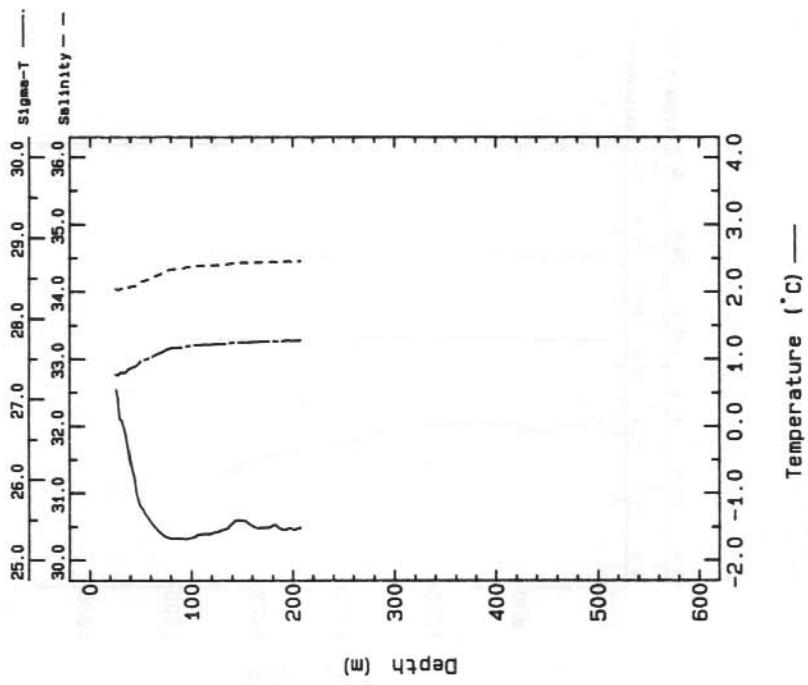
Cruise: SIBEX2 Station: 23  
11 JAN 1985 0700 GMT  
Latitude : 67:00.00S  
Longitude: 68:00.30E  
Depth: CTD 1514 m Bottom 1510 m

Cruise: SIBEX2 Station: 23  
11 JAN 1985 0700 GMT  
Latitude : 67:00.00S  
Longitude: 68:00.30E  
Depth: CTD 1514 m Bottom 1510 m

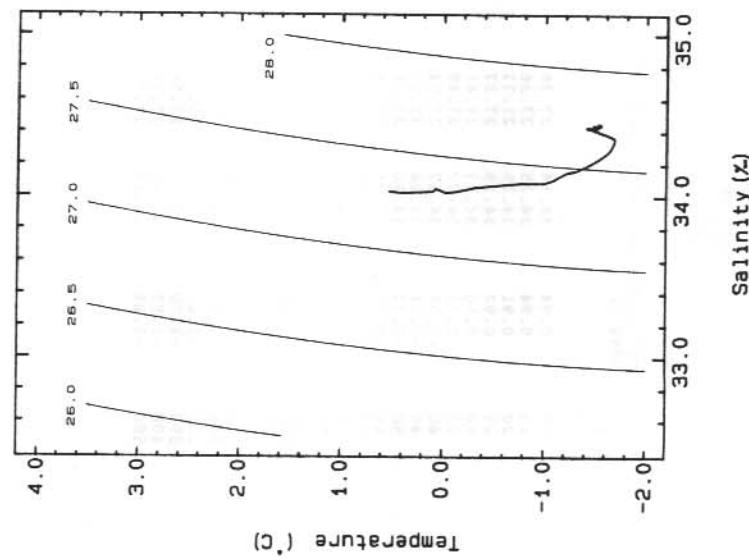


Cruise : SIBEX2  
 Station number : 24  
 Date : 11 JAN 1985  
 Start Time : 0855 GMT  
 Ship : NELIA DAN  
 Position : 67.00.10S 68.00.10E  
 Cast Depth (m) : 210  
 Bottom Depth (m) : Not Recorded

Depth d bar	Temperature (deg C)	Salinity	Sigma-T
0			
5			
10			
15			
20			
25	0.53	34.03	27.29
30	0.10	34.03	27.32
35	-0.08	34.03	27.32
40	-0.49	34.07	27.38
45	-0.88	34.09	27.41
50	-1.20	34.15	27.47
60	-1.43	34.20	27.52
70	-1.60	34.26	27.58
75	-1.65	34.30	27.61
80	-1.68	34.33	27.63
90	-1.68	34.34	27.64
100	-1.67	34.37	27.67
125	-1.58	34.39	27.68
150	-1.41	34.43	27.71
175	-1.51	34.44	27.72
200	-1.54	34.44	27.72



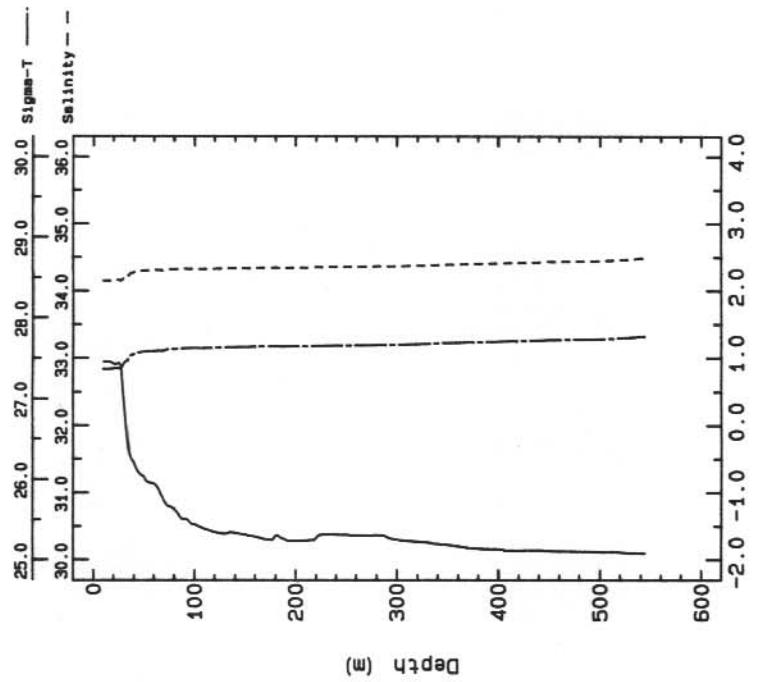
Cruise: SIBEX2 Station: 24  
11 JAN 1985 0855 GMT  
Latitude : 67° 00'.10S  
Longitude: 66° 00'.10E  
Depth: CTD 210 m Bottom NR



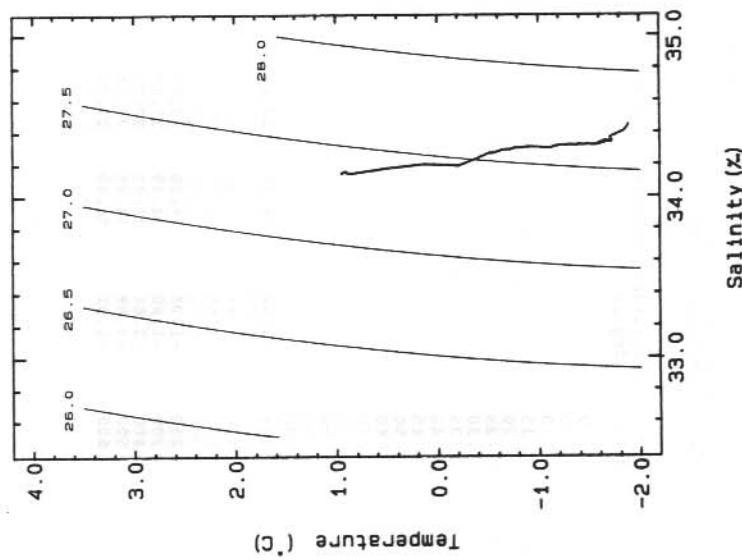
Cruise : SIBEX2  
 Station number : 26  
 Date : 13 JAN 1985  
 Start Time : 0915 GMT  
 Ship : NELIA DAN  
 Position : 68:00.00S 78:00.20E  
 Cast Depth (m) : 548  
 Bottom Depth (m) : 580 m

Cruise: SIBEX2 Station: 26  
 13 JAN 1985 0945 GMT  
 Latitude : 68:00.00S  
 Longitude: 78:00.20E  
 Depth: CTD 548 m Bottom 580 m

depth d bar	Temperature (deg C)	Salinity	Sigma-T
0			
5	0.94	34.14	27.36
10	0.94	34.15	27.36
15	0.94	34.15	27.37
20	0.91	34.15	27.37
25	0.92	34.15	27.37
30	0.50	34.17	27.41
35	-0.33	34.22	27.49
40	-0.56	34.27	27.54
45	-0.71	34.29	27.57
50	-0.77	34.30	27.58
60	-0.87	34.31	27.59
70	-1.11	34.30	27.59
75	-1.21	34.32	27.61
80	-1.24	34.32	27.61
90	-1.39	34.33	27.62
100	-1.48	34.32	27.62
125	-1.61	34.33	27.63
150	-1.63	34.33	27.64
175	-1.71	34.34	27.64
200	-1.73	34.34	27.64
250	-1.63	34.35	27.65
300	-1.70	34.37	27.66
400	-1.85	34.41	27.70
500	-1.89	34.45	27.73



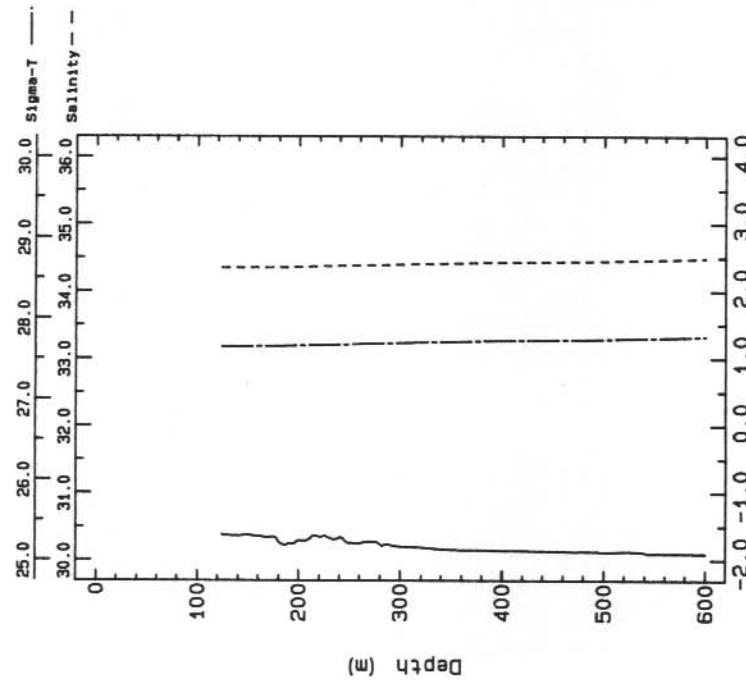
Cruise: SIBEX2 Station: 26  
13 JAN 1985 0915 GMT  
Latitude : 68: 00. 00S  
Longitude: 78: 00. 20E  
Depth: CTD 548 m Bottom 580 m



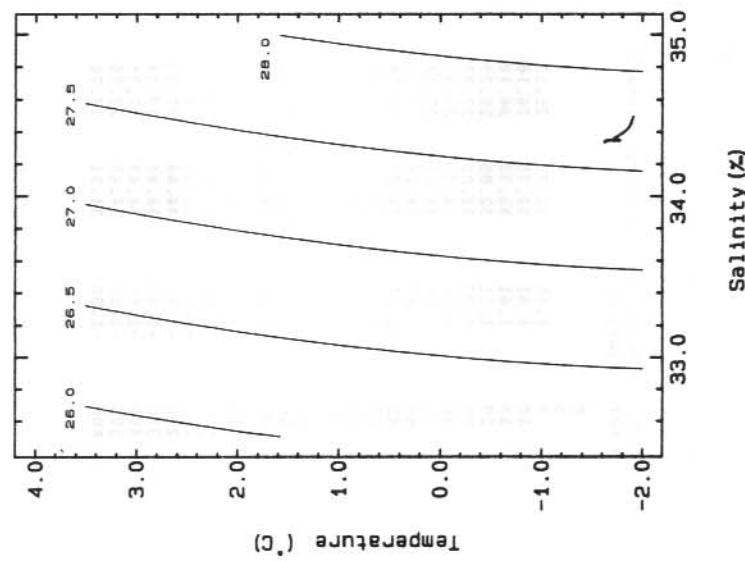
Cruise : SIBEX2  
 Station number : 27  
 Date : 13 JAN 1985  
 Start Time : 1453 GMT  
 Ship : NELLA DAN  
 Position : 68°30'.20S 76°30'.90E  
 Cast Depth (m) : 610  
 Bottom Depth (m) : 640 m

Cruise: SIBEX2 Station: 27  
 13 JAN 1985 1453 GMT  
 Latitude : 68° 30'.20S  
 Longitude: 76° 30'.90E  
 Depth: CTD 610 m Bottom 640 m

Depth d bar	Temperature (deg C)	Salinity	Sigma-T
0			
5			
10			
15			
20			
25			
30			
35			
40			
45			
50			
60			
70			
75			
80			
90			
100			
124	-1.62	34.34	27.64
125	-1.63	34.34	27.64
150	-1.63	34.34	27.64
175	-1.66	34.35	27.65
200	-1.71	34.35	27.65
250	-1.75	34.38	27.67
300	-1.80	34.39	27.69
400	-1.86	34.43	27.72
500	-1.88	34.45	27.74
600	-1.91	34.49	27.77



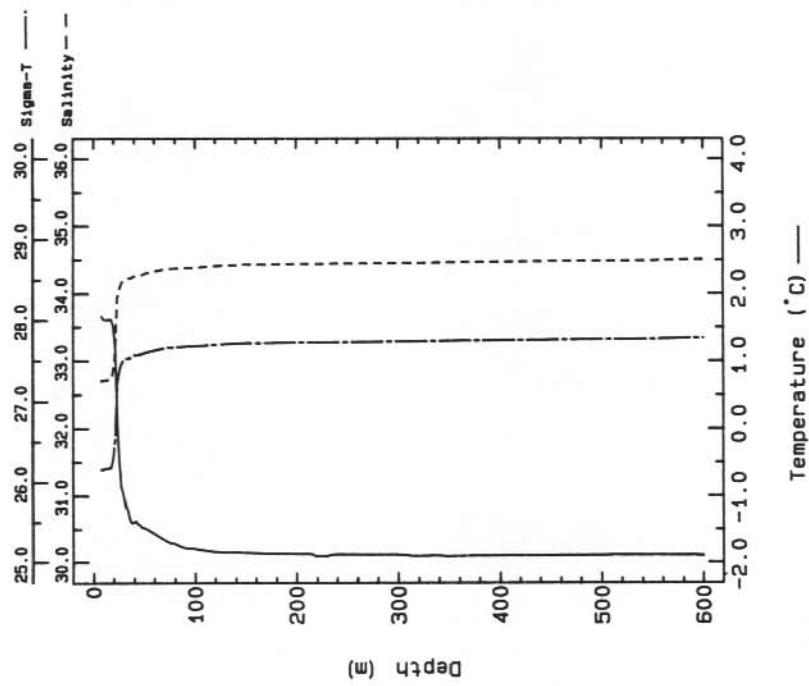
Cruise: SIBEX2 Station: 27  
13 JAN 1985 1453 GMT  
Latitude : 68° 30.20S  
Longitude: 76° 30.90E  
Depth: CTD 610 m Bottom 640 m



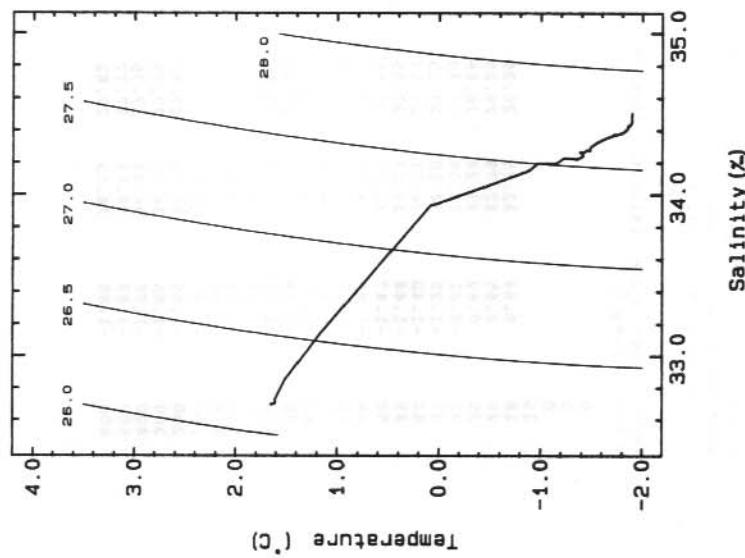
Cruise : SIBEX2  
 Station number : 28  
 Date : 13 JAN 1985  
 Start Time : 2353 GMT  
 Ship : NELLA DAN  
 Position : 68°30' 10S 73°00' 40E  
 Cast Depth (m) : 652  
 Bottom Depth (m) : 668

Cruise: SIBEX2 Station: 28  
 13 JAN 1985 2353 GMT  
 Latitude : 68° 30'.10S  
 Longitude: 73° 00'.40E  
 Depth: CTD 652 m Bottom 668 m

Depth d bar	Temperature (deg C)	Salinity	Sigma-T
0			
5	1.65	32.70	26.15
10	1.61	32.71	26.16
15	1.61	32.72	26.18
20	1.51	32.85	26.29
25	-0.20	34.00	27.31
30	-0.96	34.20	27.50
35	-1.29	34.23	27.54
40	-1.40	34.26	27.57
45	-1.44	34.27	27.58
50	-1.49	34.30	27.60
60	-1.57	34.33	27.63
70	-1.66	34.36	27.66
75	-1.70	34.37	27.66
80	-1.72	34.38	27.67
90	-1.78	34.38	27.68
100	-1.80	34.39	27.68
125	-1.85	34.41	27.70
150	-1.86	34.43	27.72
175	-1.87	34.43	27.72
200	-1.88	34.44	27.73
250	-1.88	34.44	27.73
300	-1.89	34.45	27.74
400	-1.90	34.47	27.75
500	-1.89	34.49	27.76
600	-1.90	34.51	27.78

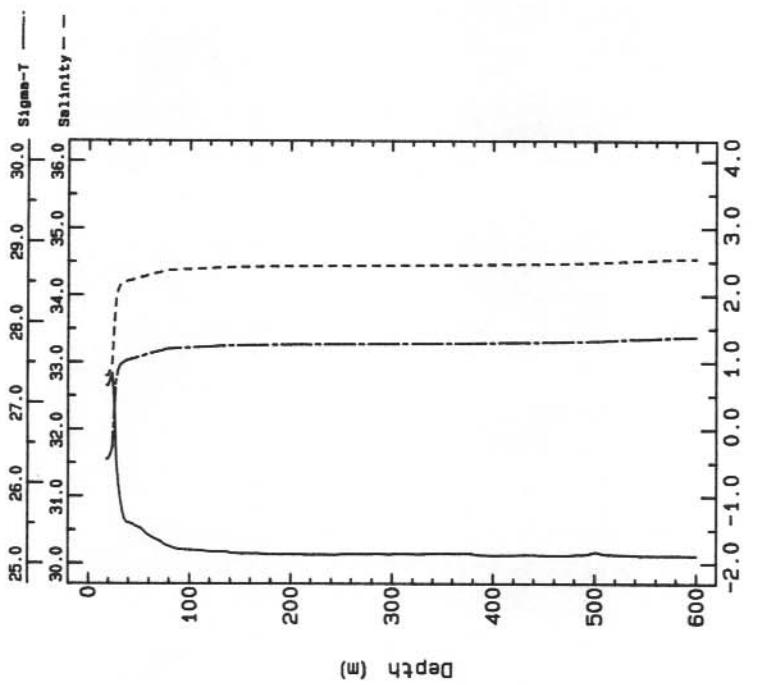


Cruise: SIBEX2 Station: 28  
13 JAN 1985 2353 GMT  
Latitude : 68° 30'.10S  
Longitude: 73° 00'.40E  
Depth: CTD 652m Bottom 668 m

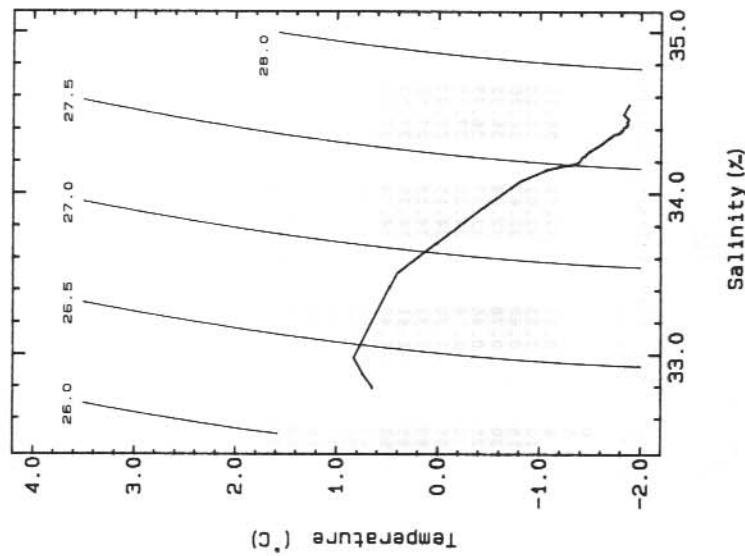


Cruise	:	SIBEX2
Station number	:	29
Date	:	14 JAN 1985
Start Time	:	0413 GMT
Ship	:	NELLA DAN
Position	:	67°59' 90S 72°57' 40E
Cast Depth (m)	:	634
Bottom Depth (m)	:	642

Depth d bar	Temperature (deg C)	Salinity	Sigma-T
0			
5			
10			
15	0.64	32.79	26.29
20	0.65	32.79	26.29
25	0.62	33.24	26.66
30	-0.81	34.08	27.40
35	-1.28	34.18	27.50
40	-1.40	34.21	27.53
45	-1.44	34.23	27.55
50	-1.47	34.25	27.56
60	-1.59	34.30	27.61
70	-1.66	34.34	27.64
75	-1.71	34.36	27.66
80	-1.75	34.37	27.67
90	-1.79	34.38	27.68
100	-1.80	34.38	27.68
125	-1.83	34.41	27.70
150	-1.85	34.42	27.71
175	-1.86	34.43	27.72
200	-1.87	34.43	27.72
250	-1.86	34.44	27.73
300	-1.86	34.45	27.73
400	-1.88	34.46	27.75
500	-1.82	34.49	27.77
600	-1.88	34.55	27.82

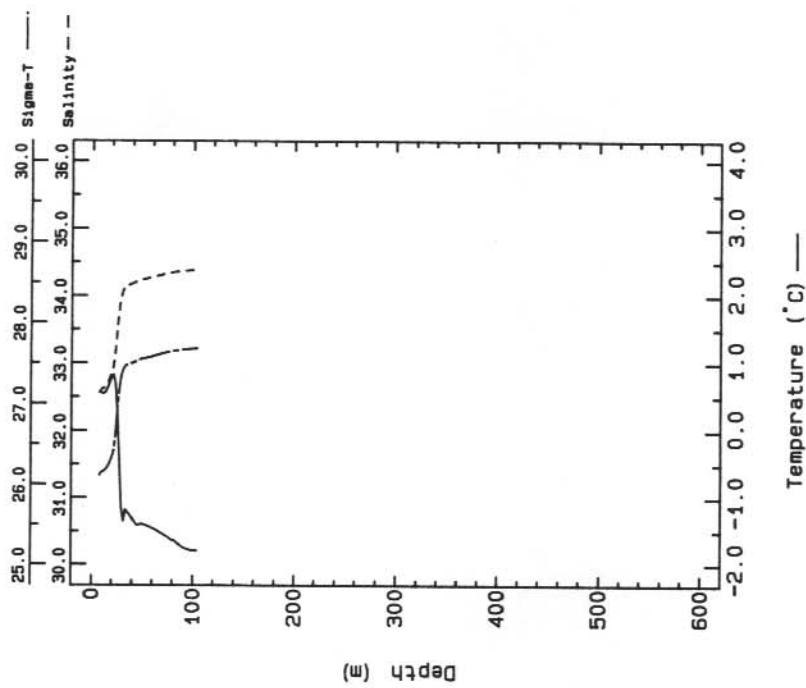


Cruise: SIBEX2 Station: 29  
14 JAN 1985 0413 GMT  
Latitude : 67° 59' .90S  
Longitude: 72° 57'.40E  
Depth: CTD 634 m Bottom 642 m

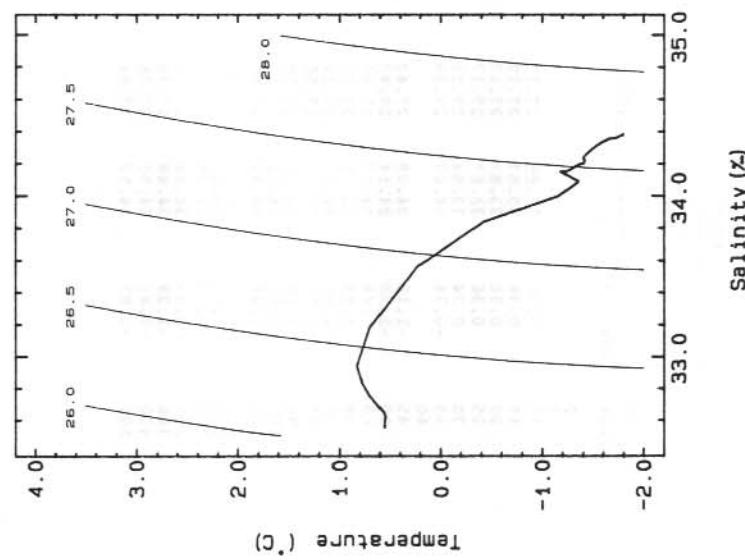


Cruise : SIBEX2  
 Station number : 30  
 Date : 14 JAN 1985  
 Start Time : 0530 GMT  
 Ship : NELIA DAN  
 Position : 67°59.40S 72°56.70E  
 Cast Depth (m) : 110  
 Bottom Depth (m) : 640 m

Depth d bar	Temperature (deg C)	Salinity	Sigma-T
0	0.55	32.56	26.11
5	0.55	32.61	26.15
10	0.60	32.67	26.20
15	0.78	32.84	26.32
20	0.46	33.37	26.77
25	-1.16	34.00	27.35
30	-1.20	34.15	27.47
35	-1.31	34.18	27.50
40	-1.41	34.21	27.53
45	-1.40	34.24	27.55
50	-1.46	34.28	27.58
60	-1.54	34.32	27.62
70	-1.59	34.33	27.63
75	-1.64	34.35	27.65
80	-1.75	34.37	27.67
90	-1.79	34.38	27.68
100			

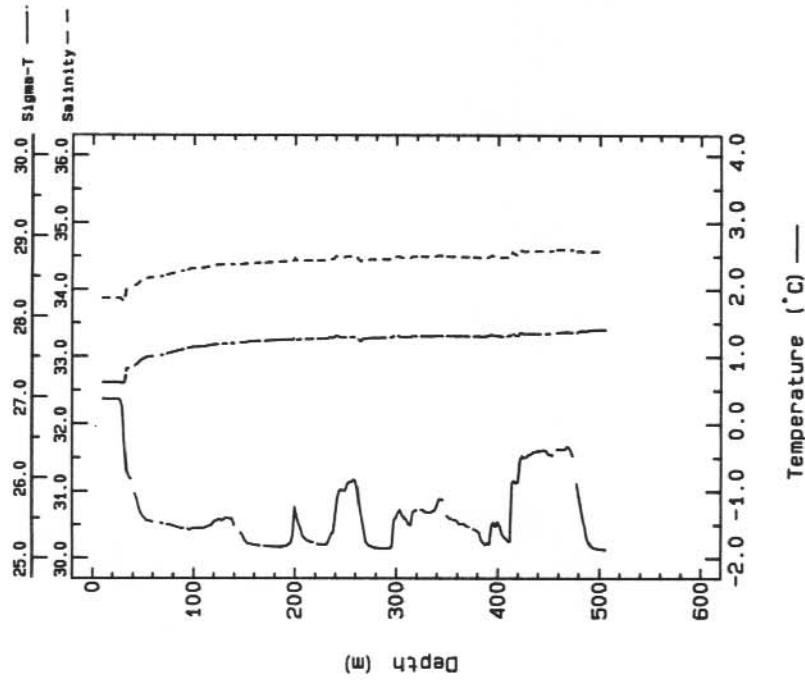


Cruise: SIBEX2 Station: 30  
14 JAN 1995 0530 GMT  
Latitude : 67° 59' 40S  
Longitude: 72° 56' 70E  
Depth: CTD 110 m Bottom 640 m

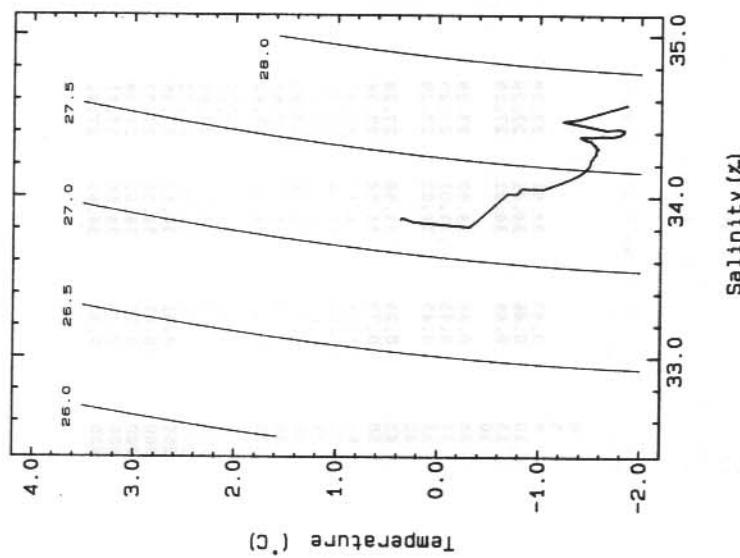


Cruise : SIBEX2  
 Station number : 31  
 Date : 14 JAN 1985  
 Start Time : 1211 GMT  
 Ship : NELIA DAN  
 Position : 67:00.50S 73:00.30E  
 Cast Depth (m) : 508  
 Bottom Depth (m) : 515 m

Depth d bar	Temperature (deg C)	Salinity	Sigma-T
0	0.36	33.86	27.17
5	0.36	33.87	27.17
10	0.36	33.87	27.17
15	0.36	33.87	27.17
20	0.36	33.87	27.17
25	0.36	33.87	27.17
30	0.24	33.84	27.16
35	-0.74	34.02	27.35
40			
45	-1.18	34.08	27.42
50	-1.38	34.14	27.47
60	-1.46	34.17	27.50
70	-1.49	34.19	27.52
75	-1.50	34.22	27.54
80	-1.52	34.24	27.56
90	-1.56	34.28	27.59
100	-1.55	34.32	27.62
125	-1.42	34.37	27.66
150	-1.72	34.38	27.67
175	-1.83	34.41	27.70
200	-1.23	34.47	27.73
250	-0.99	34.48	27.73
300	-1.39	34.49	27.75
400	-1.45	34.50	27.76
500	-1.87	34.57	27.84

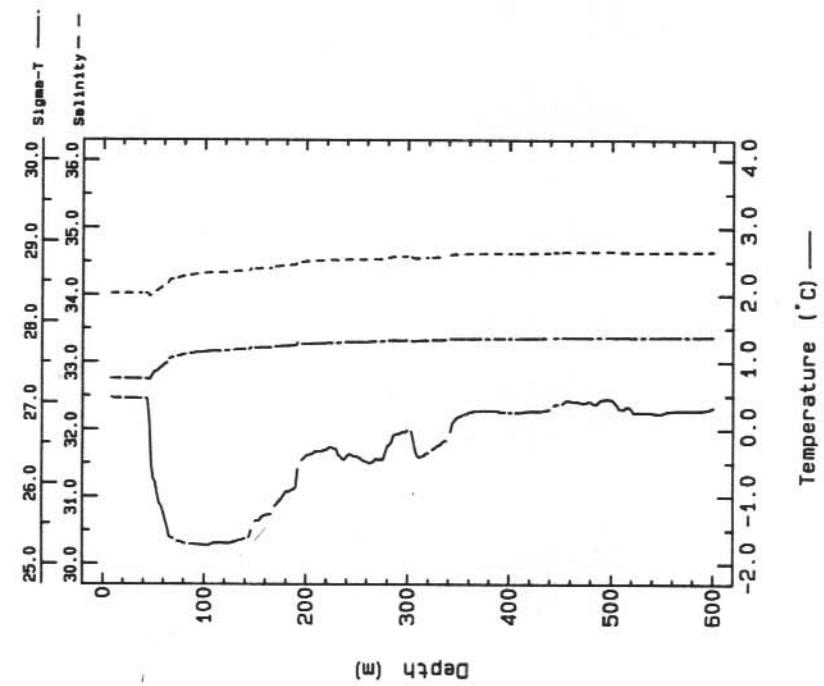


Cruise: SIBEX12 Station: 31  
14 JAN 1985 1211 GMT  
Latitude : 67° 00.50S  
Longitude: 73° 00.30E  
Depth: CTD 508 m Bottom 515 m

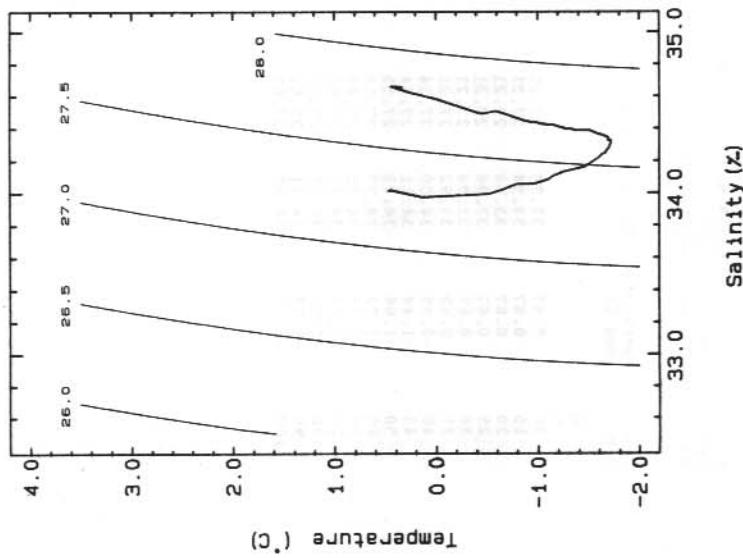


Cruise : SIBEX2 Station: 32  
 Station number : 32  
 Date : 14 JAN 1985  
 Start Time : 2116 GMT  
 Ship : NELLA DAN  
 Position : 66°39.70S 71°46.10E  
 Cast Depth (m) : 610  
 Bottom Depth (m) : Not Recorded

Depth d bar	Temperature (deg C)	Salinity	Sigma-T
0	0.47	34.01	27.29
5	0.46	34.01	27.28
8	0.46	34.01	27.28
10	0.46	34.01	27.28
15	0.46	34.01	27.29
20	0.46	34.02	27.29
25	0.46	34.02	27.29
30	0.45	34.01	27.29
35	0.45	34.02	27.29
40	0.45	34.02	27.29
45	0.29	33.99	27.28
50	-0.73	34.04	27.36
60	-1.24	34.13	27.45
70	-1.63	34.24	27.56
75	-1.67	34.25	27.57
80	-1.70	34.28	27.59
90	-1.71	34.30	27.61
100	-1.73	34.32	27.62
125	-1.70	34.34	27.64
150	-1.37	34.39	27.67
175	-1.04	34.43	27.69
200	-0.40	34.50	27.72
250	-0.41	34.53	27.75
300	-0.01	34.58	27.77
400	0.25	34.62	27.79
500	0.45	34.66	27.81
600	0.33	34.65	27.81



Cruise: SIBEX2 Station: 32  
14 JAN 1985 2136 GMT  
Latitude : 66° 39' 70S  
Longitude: 71° 46' 10E  
Depth: CTD 610 m Bottom NR

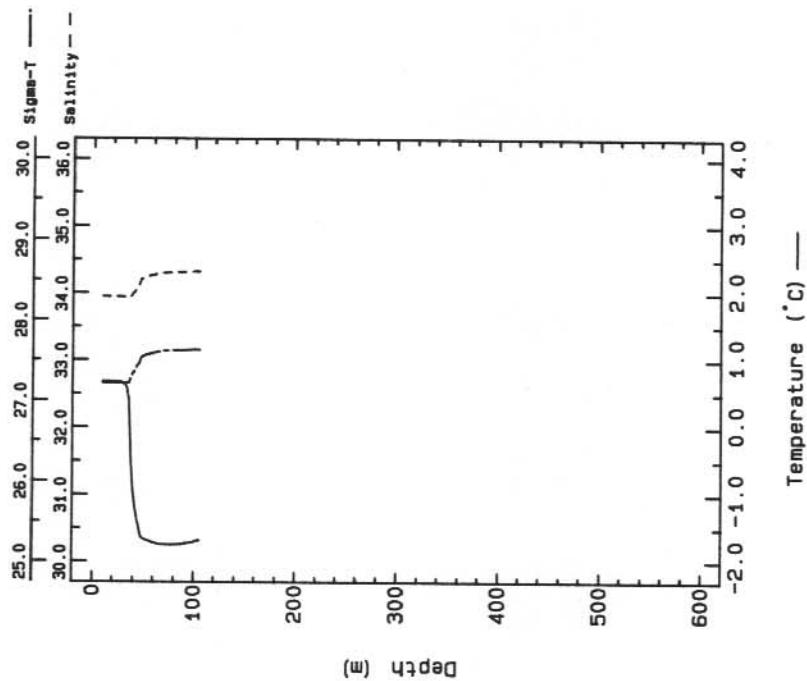


Temperature (°C)

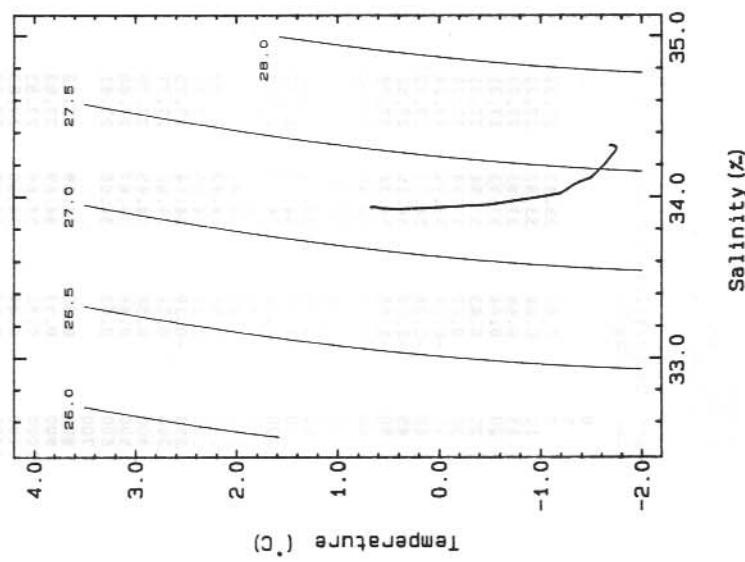
Salinity (‰)

Cruise : SIBEX2  
 Station number : 34  
 Date : 15 JAN 1986  
 Start Time : 0826 GMT  
 Ship : NELIA DAN  
 Position : 65:39.90S 72:59.60E  
 Cast Depth (m) : 110  
 Bottom Depth (m) : Not Recorded

Depth d bar	Temperature (deg C)	Salinity	Sigma-T
0	0.67	33.94	27.21
5	0.67	33.94	27.21
10	0.67	33.94	27.21
15	0.67	33.94	27.21
20	0.67	33.94	27.21
25	0.67	33.94	27.21
30	0.65	33.94	27.21
35	0.49	33.92	27.21
40	-0.95	34.00	27.34
45	-1.44	34.11	27.44
50	-1.66	34.22	27.55
60	-1.72	34.27	27.58
70	-1.75	34.30	27.61
75	-1.75	34.30	27.61
80	-1.75	34.31	27.62
90	-1.73	34.31	27.62
100	-1.71	34.32	27.63

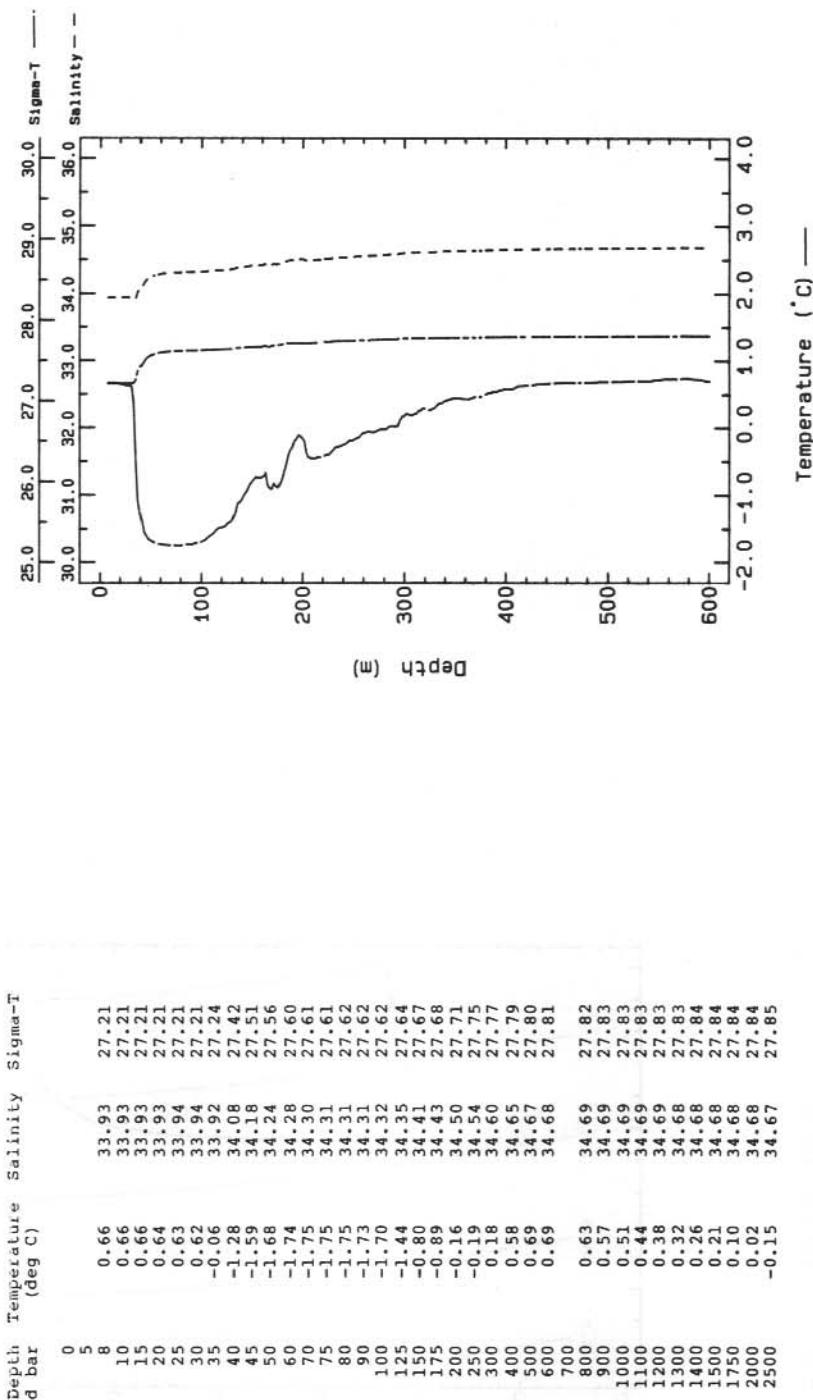


Cruise: STIBEX2 Station: 34  
15 JAN 1986 0826 GMT  
Latitude : 65° 59'.90S  
Longitude: 72° 59'.60E  
Depth: CTD 110 m Bottom NR



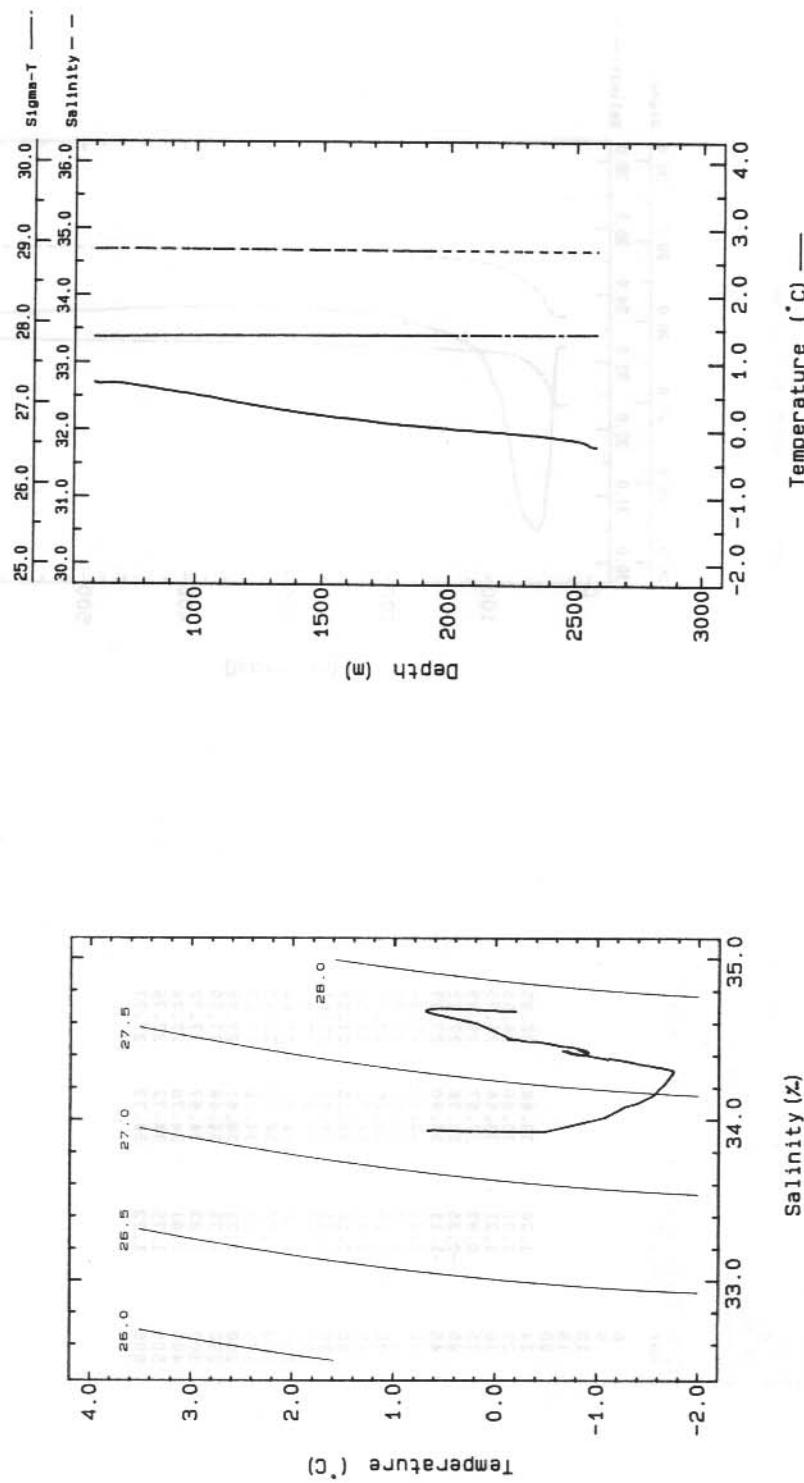
Cruise : SIBEX2  
 Station number : 35  
 Date : 15 JAN 1985  
 Start Time : 0837 GMT  
 Ship : NEELA DAN  
 Position : 66:00.00S 72:59.40E  
 Cast Depth (m) : 2584  
 Bottom Depth (m) : 2592 m

Cruise: SIBEX2 Station: 35  
 15 JAN 1985 0837 GMT  
 Latitude : 66:00.00S  
 Longitude: 72:59.40E  
 Depth: CTD 2584 m Bottom 2592 m



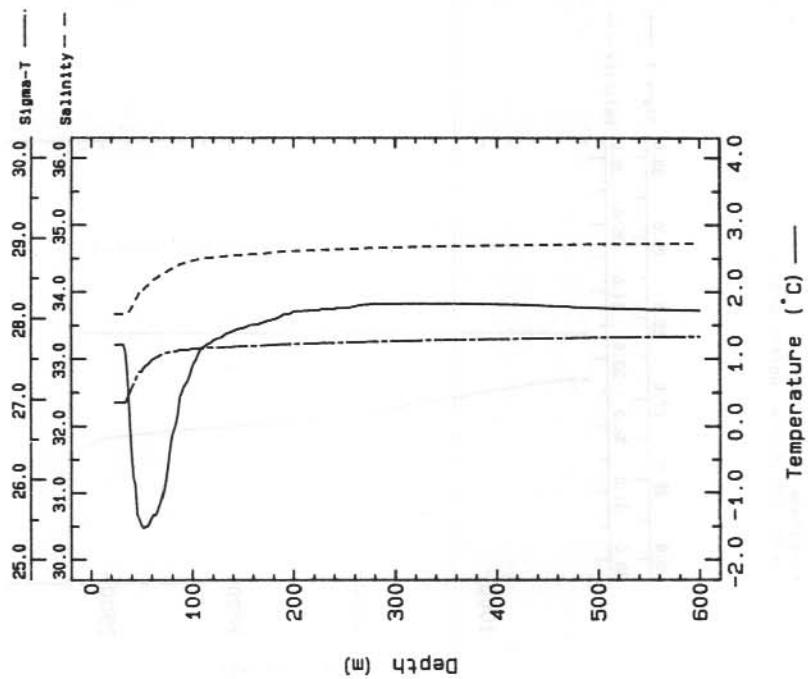
Cruise: SIBEX2 Station: 35  
15 JAN 1985 0837 GMT  
Latitude : 66:00.00S  
Longitude: 72:59.40E  
Depth: CTD 2584 m Bottom 2592 m

Cruise: SIBEX2 Station: 35  
15 JAN 1985 0837 GMT  
Latitude : 66:00.00S  
Longitude: 72:59.40E  
Depth: CTD 2584 m Bottom 2592 m

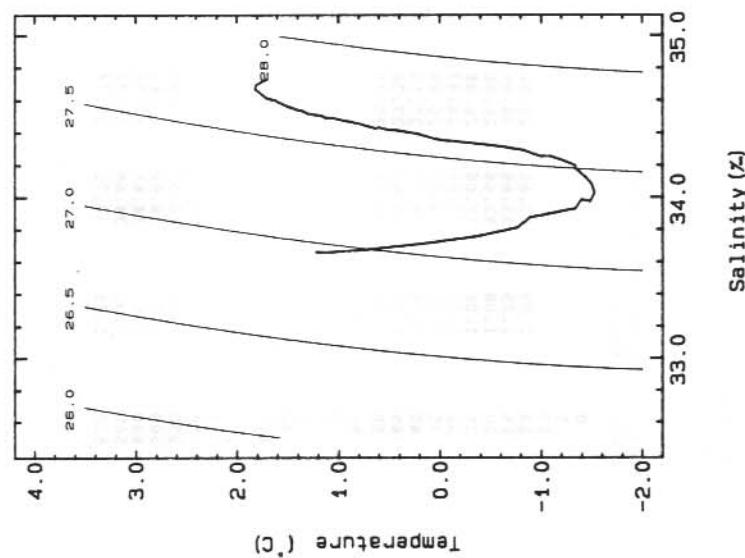


Cruise : SIBEX2  
 Station: 38  
 Number : 38  
 Date : 16 JAN 1985  
 Start Time : 0702 GMT  
 Ship : NELIA DAN  
 Position : 62°59.80S 73°00.20E  
 Cast Depth (m) : 608  
 Bottom Depth (m) : Not Recorded

Depth d bar	Temperature (deg C)	Salinity	Sigma-T
0			
5			
10			
15			
20	1.20	33.66	26.95
24		33.66	26.95
25	1.21	33.66	26.95
30	1.21	33.66	26.95
35	0.92	33.67	26.99
40	-0.35	33.76	27.13
45	-1.11	33.90	27.27
50	-1.48	33.97	27.34
60	-1.38	34.16	27.48
70	-1.10	34.26	27.55
75	-0.71	34.31	27.58
80	-0.16	34.35	27.59
90	0.51	34.42	27.61
100	0.87	34.47	27.63
125	1.31	34.52	27.64
150	1.46	34.55	27.65
175	1.57	34.58	27.67
200	1.71	34.61	27.68
250	1.76	34.64	27.70
300	1.82	34.67	27.72
400	1.81	34.70	27.74
500	1.75	34.72	27.76
600	1.72	34.73	27.77

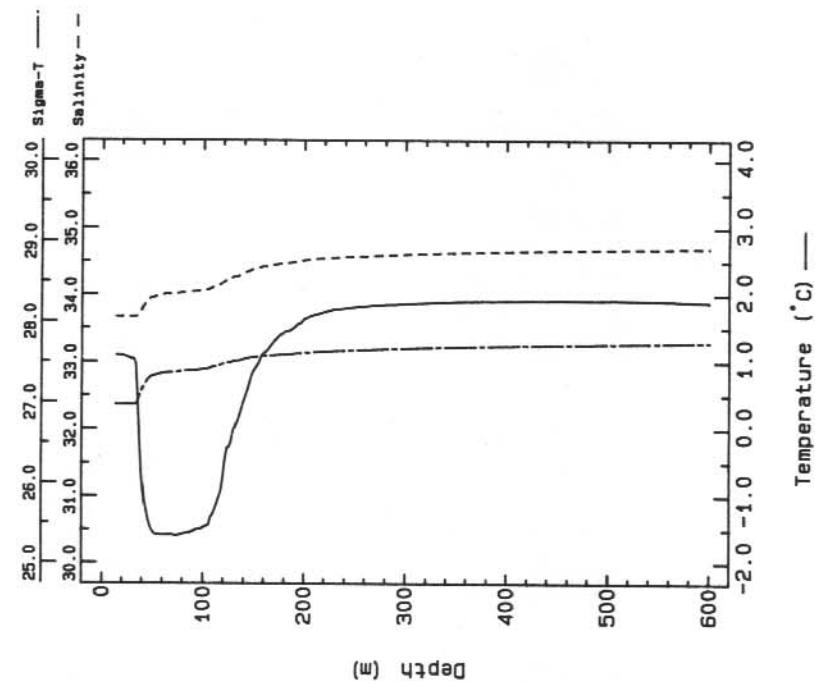


Cruise: SIBEX2 Station: 38  
16 JAN 1985 0702 GMT  
Latitude : 62° 59.80S  
Longitude: 73° 00.20E  
Depth: CTD 608 m Bottom NR

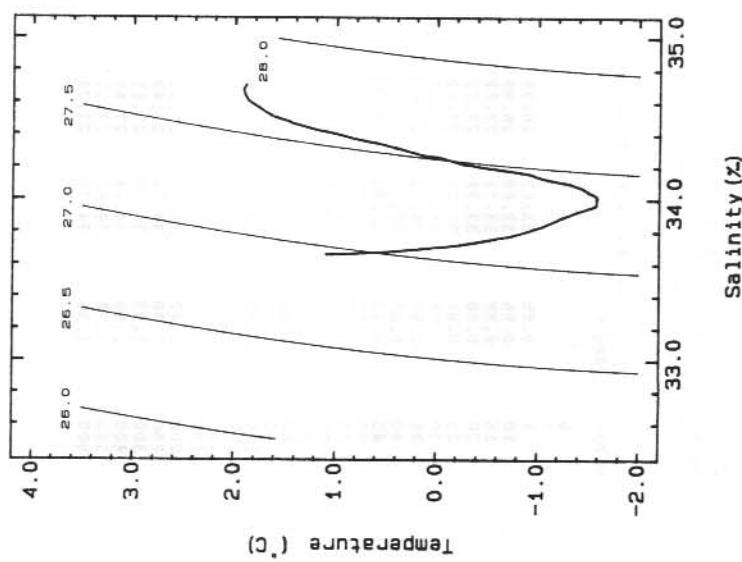
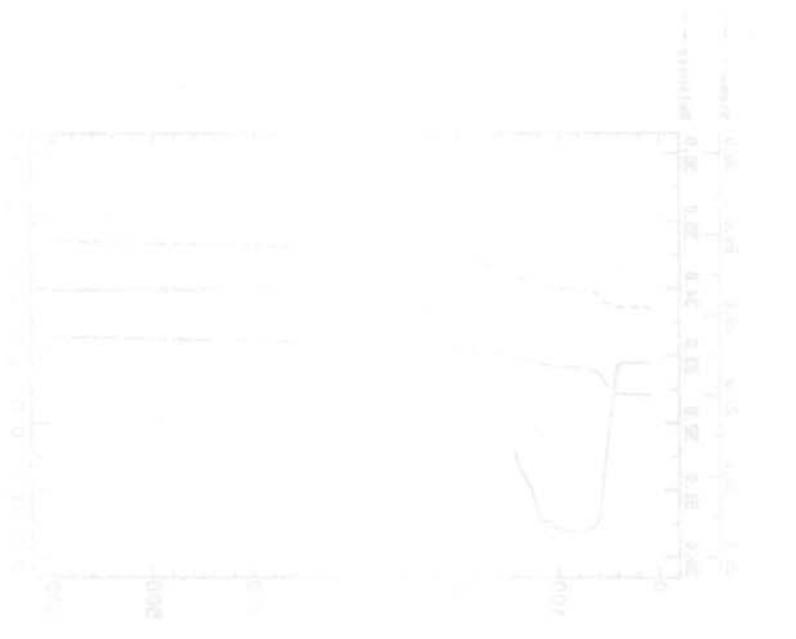


Cruise : SIBEX2  
 Station number : 39  
 Date : 17 JAN 1985  
 Start Time : 0944 GMT  
 Ship : NELLA DAN  
 Position : 62.00.10S 73.00.10E  
 Cast Depth (m) : 608  
 Bottom Depth (m) : Not Recorded

Depth d bar	Temperature (deg C)	Salinity	Sigma-T
0			
5			
10	1.09	33.66	26.96
14	1.09	33.66	26.96
15	1.09	33.66	26.96
20	1.08	33.66	26.96
25	1.06	33.66	26.96
30	1.03	33.66	26.97
35	0.72	33.67	26.99
40	-0.74	33.78	27.15
45	-1.30	33.91	27.28
50	-1.53	33.96	27.33
60	-1.59	33.99	27.36
70	-1.58	34.01	27.37
75	-1.59	34.01	27.37
80	-1.57	34.03	27.38
90	-1.53	34.04	27.39
100	-1.47	34.06	27.41
125	-0.27	34.22	27.49
150	0.87	34.38	27.56
175	1.37	34.46	27.58
200	1.64	34.51	27.61
250	1.81	34.57	27.64
300	1.87	34.60	27.67
400	1.91	34.65	27.70
500	1.92	34.68	27.72
600	1.89	34.71	27.74

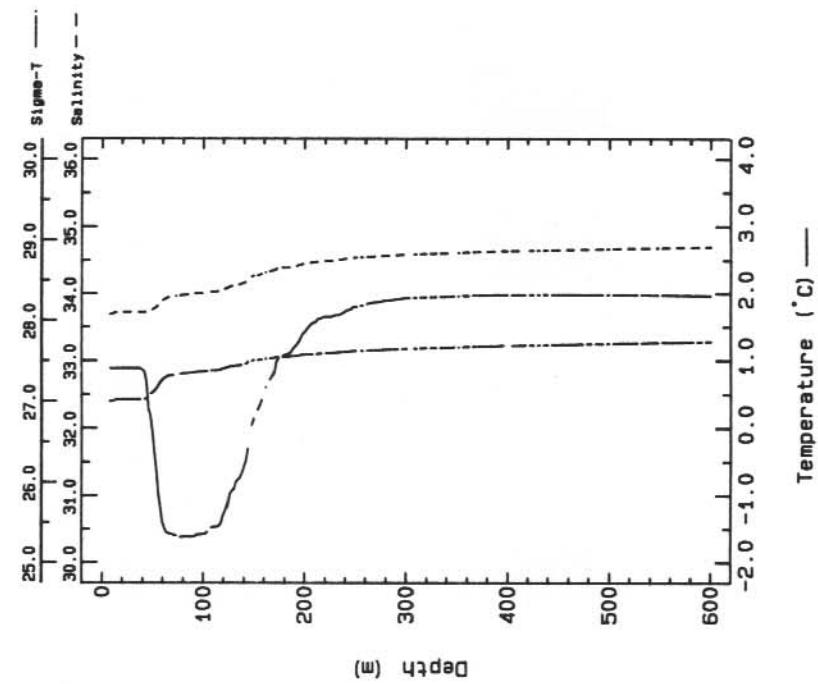


Cruise: SIBEX2 Station: 39  
17 JAN 1985 0934 GMT  
Latitude : 62.00.10S  
Longitude: 73.00.10E  
Depth: CTD 608 m Bottom NR

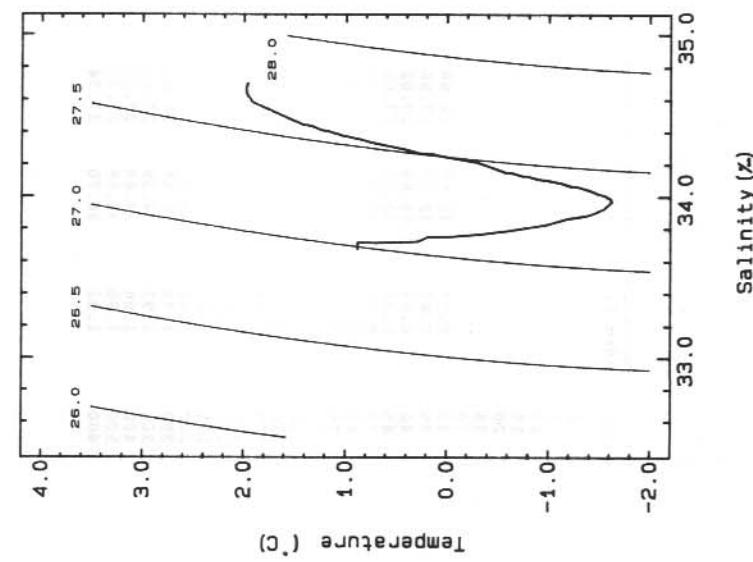


Cruise : SIBEX2  
 Station number : 42  
 Date : 18 JAN 1985  
 Start Time : 1000 GMT  
 Ship : NEELLA DAN  
 Position : 60.00.00S 78.00.00E  
 Cast Depth (m) : 608  
 Bottom Depth (m) : Not Recorded

Depth d bar	Temperature (deg C)	Salinity	Sigma-T
0			
5	0.88	33.67	26.99
8	0.88	33.68	26.99
10	0.88	33.71	27.02
15	0.88	33.71	27.02
20	0.88	33.71	27.02
25	0.88	33.71	27.02
30	0.88	33.71	27.02
35	0.88	33.71	27.02
40	0.86	33.71	27.02
45	0.49	33.72	27.04
50	-0.04	33.75	27.10
60	-1.40	33.89	27.26
70	-1.59	33.95	27.32
75			
80	-1.62	33.97	27.34
90	-1.62	33.99	27.35
100	-1.58	34.00	27.36
125	-1.06	34.10	27.42
150	0.14	34.27	27.51
175			
200	1.42	34.44	27.57
250	1.80	34.54	27.62
300	1.93	34.59	27.65
400	1.98	34.64	27.68
500	1.98	34.67	27.71
600	1.96	34.70	27.74

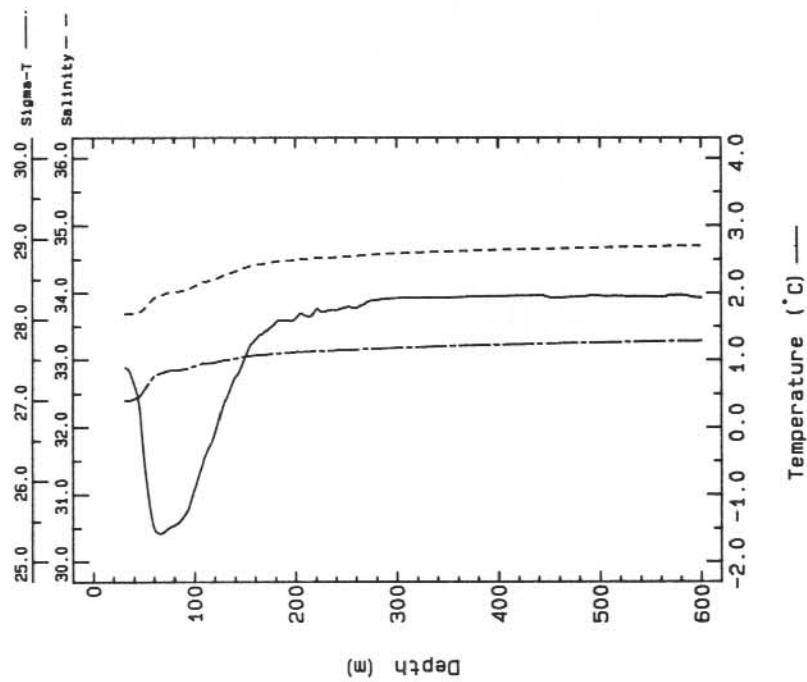


Cruise: SIBEX2 Station: 42  
18 JAN 1985 1000 GMT  
Latitude : 60:00.00S  
Longitude: 78:00.00E  
Depth: CTD 608 m Bottom NR

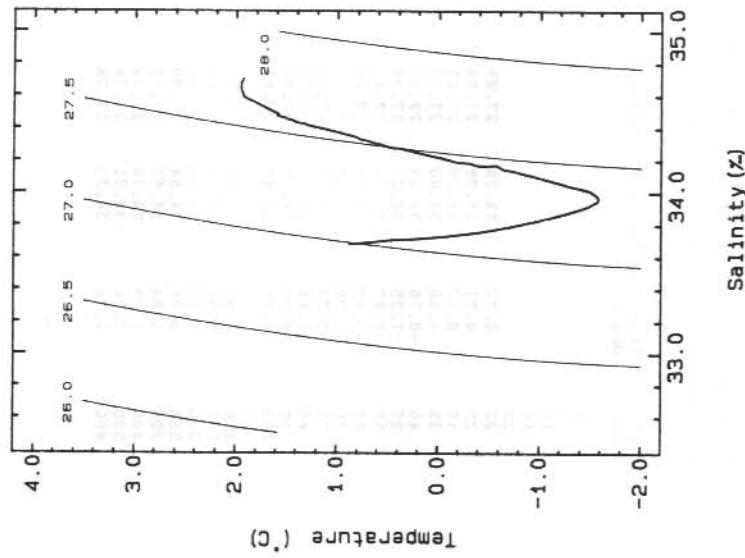


Cruise : SIBEX2 Station: 44  
 Station number : 44  
 Date : 18 JAN 1985  
 Start Time : 2115 GMT  
 Ship : NEELA DAN  
 Position : 62°01'.20S 77°59'.20E  
 Cast Depth (m) : 616  
 Bottom Depth (m) : Not Recorded  
 Depth d bar Temperature (deg C) Salinity Sigma-T  
 0 0.88 33.68 26.99  
 5 0.84 33.68 27.00  
 10 0.65 33.69 27.02  
 15 0.37 33.71 27.05  
 20 0.43 33.76 27.13  
 25 -0.43 33.92 27.30  
 30 -1.48 33.98 27.35  
 35 -1.56 34.01 27.37  
 40 0.88 34.02 27.37  
 45 0.65 34.04 27.39  
 50 0.37 34.10 27.42  
 55 0.15 34.24 27.48  
 60 1.03 34.38 27.54  
 65 1.49 34.46 27.57  
 70 1.49 34.50 27.60  
 75 1.62 34.55 27.62  
 80 1.79 34.59 27.65  
 85 1.93 34.64 27.69  
 90 1.96 34.68 27.72  
 95 1.95 34.70 27.74

Cruise: SIBEX2 Station: 44  
 18 JAN 1985 2115 GMT  
 Latitude : 62° 01'.20S  
 Longitude: 77° 59'.20E  
 Depth: CTD 616 m Bottom NR

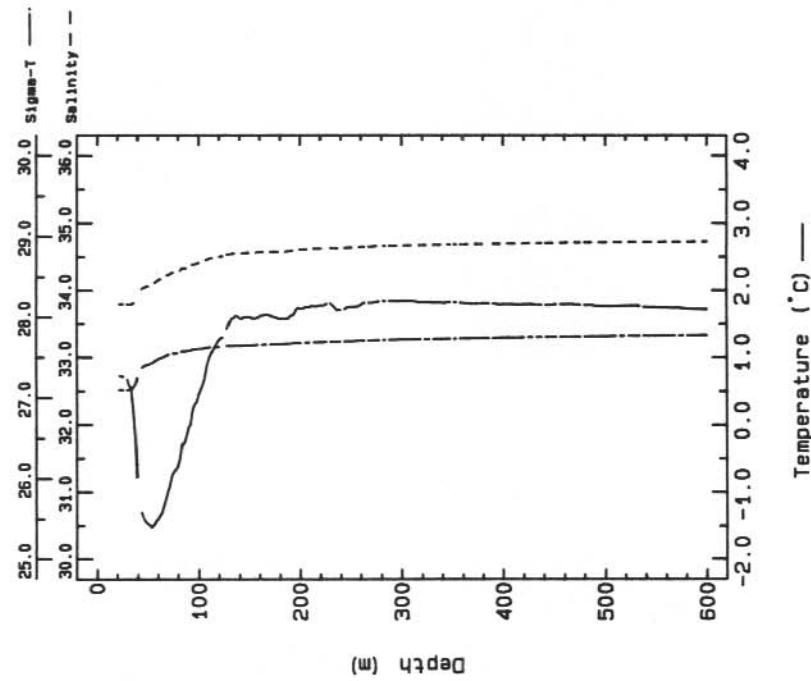


Cruise: SIBEX2 Station: 44  
18 JAN 1985 2115 GMT  
Latitude : 62° 01'.20S  
Longitude: 77° 59'.20E  
Depth: CTD 616 m Bottom NR

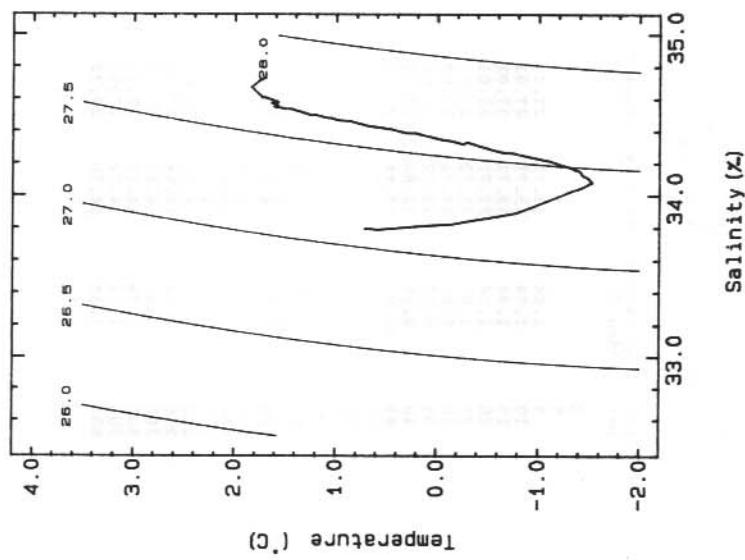


Cruise : SIBEX2  
 Station number : 45  
 Date : 19 JAN 1985  
 Start Time : 0315 GMT  
 Ship : NELLIA DAN  
 Position : 63°00'.40S 77°59'.70E  
 Cast Depth (m) : 612  
 Bottom Depth (m) : Not Recorded

Depth d bar	Temperature (deg C)	Salinity	Sigma-T
0			
5			
10			
15			
20	0.72	33.79	27.09
25	0.71	33.79	27.09
30	0.67	33.79	27.09
35	0.38	33.80	27.12
40	-0.78	33.89	27.25
45	-1.35	34.03	27.38
50	-1.47	34.06	27.41
60	-1.40	34.15	27.48
70	-1.00	34.23	27.53
75	-0.73	34.27	27.55
80	-0.61	34.27	27.55
90	-0.04	34.35	27.58
100	0.45	34.41	27.61
125	1.61	34.56	27.65
150	1.60	34.58	27.66
175	1.73	34.60	27.68
200	1.76	34.64	27.70
250	1.84	34.67	27.72
300	1.79	34.70	27.74
400	1.76	34.71	27.76
500	1.71	34.73	27.78
600			



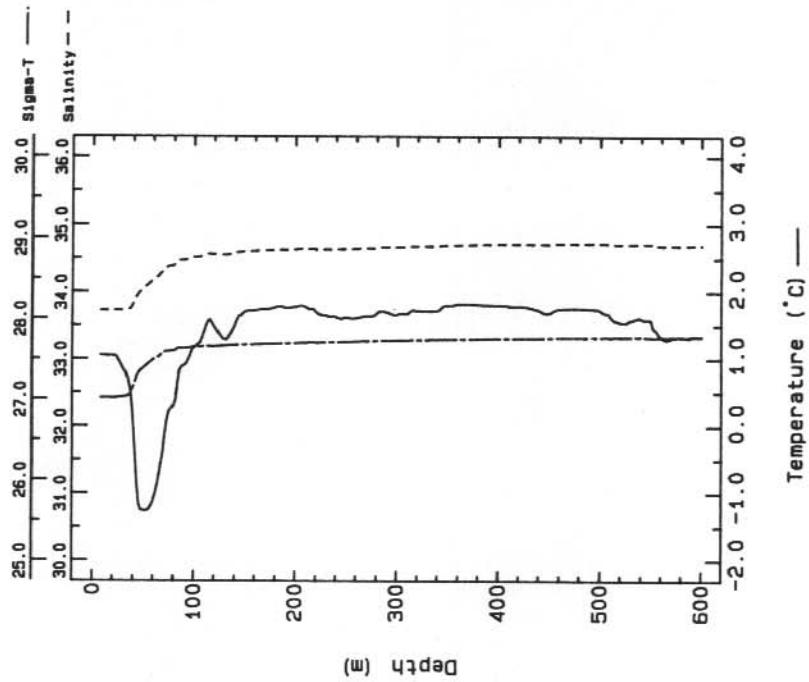
Cruise: SIBEX2 Station: 45  
19 JUN 1985 0315 GMT  
Latitude : 63° 00' .40S  
Longitude: 77° 59'.70E  
Depth: CTD 612 m Bottom NR



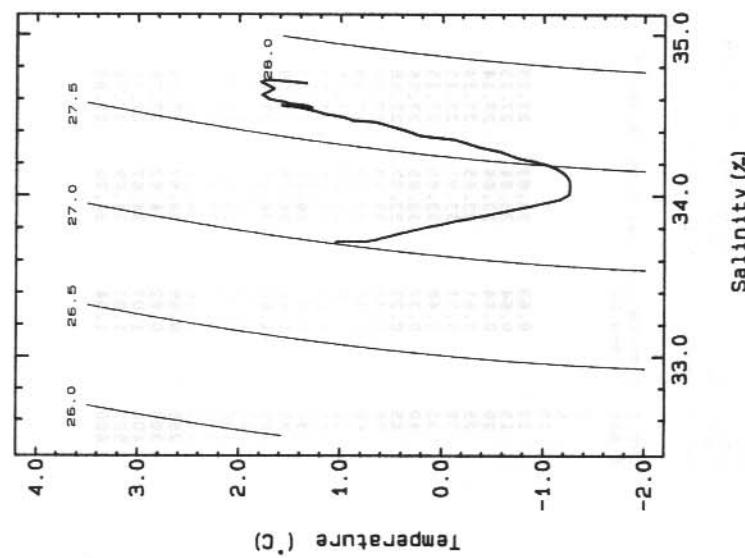
Cruise : SIBEX2 Station: 46  
 Station number : 46  
 Date : 19 JAN 1985  
 Start Time : 1232 GMT  
 Ship : NELLA DAN  
 Position : 64:00.00S 77:58.20E  
 Cast Depth (m) : 608  
 Bottom Depth (m) : Not Recorded

Depth d bar	Temperature (deg C)	Salinity	Sigma-T
0			
5	1.04	33.71	27.01
8	1.04	33.71	27.01
10	1.04	33.71	27.01
15	1.04	33.71	27.01
20	1.04	33.71	27.01
25	1.00	33.72	27.01
30	0.86	33.72	27.02
35	0.70	33.72	27.04
40	0.16	33.80	27.13
45	-1.01	33.96	27.31
50	-1.26	34.04	27.38
60	-1.13	34.17	27.48
70	-0.40	34.30	27.56
75	0.15	34.37	27.59
80	0.29	34.39	27.60
90	0.90	34.47	27.63
100	1.18	34.51	27.64
125	1.35	34.54	27.66
150	1.70	34.60	27.67
175	1.75	34.62	27.68
200	1.77	34.63	27.69
250	1.62	34.64	27.71
300	1.65	34.67	27.73
400	1.79	34.71	27.75
500	1.72	34.72	27.77
600	1.33	34.70	27.78

Cruise: SIBEX2 Station: 46  
 19 JAN 1985 1232 GMT  
 Latitude : 64:00.00S  
 Longitude: 77:58.20E  
 Depth: CTD 608 m Bottom NR

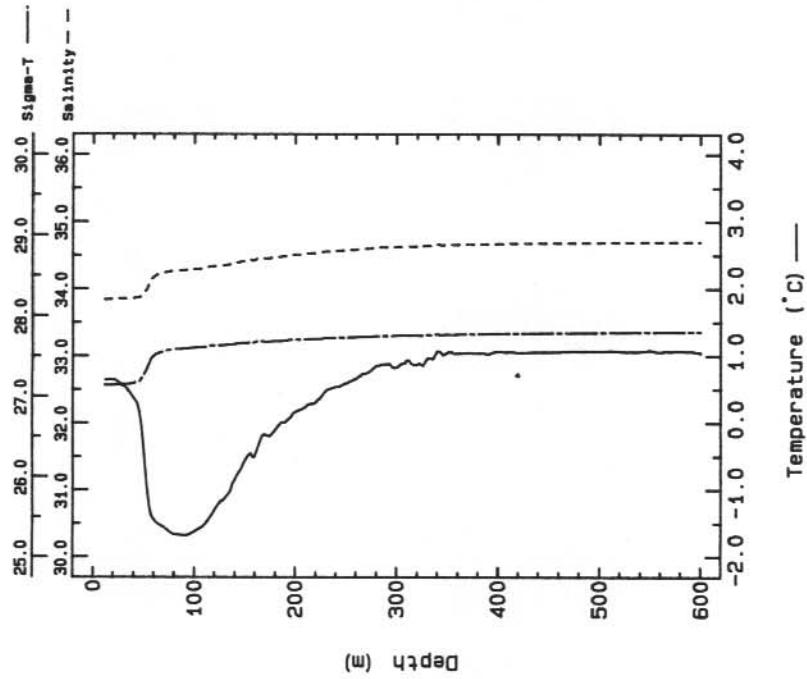


Cruise: SIBEX2 Station: 46  
19 JAN 1985 1232 GMT  
Latitude : 64° 00' 00S  
Longitude: 77° 56' 20E  
Depth: CTD 608 m Bottom NR

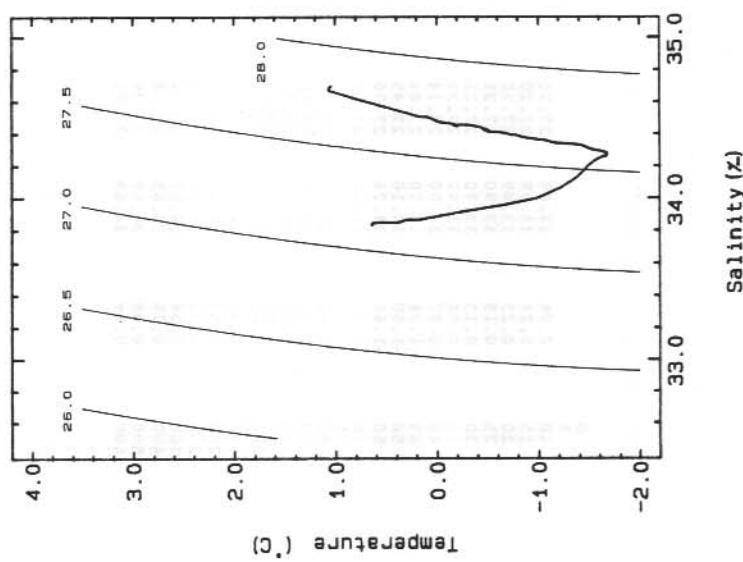


Cruise : SIBEX2  
 Station : 47  
 Date : 19 JAN 1985  
 Start Time : 2038 GMT  
 Ship : NELLA DAN  
 Position : 65:00.00S 78:00.10E  
 Cast Depth (m) : 610  
 Bottom Depth (m) : Not Recorded

Depth d bar	Temperature (deg C)	Salinity	Sigma-T
0			
5			
10	0.63	33.83	27.13
15	0.64	33.84	27.13
20	0.64	33.84	27.14
25	0.61	33.85	27.14
30	0.54	33.85	27.15
35	0.48	33.85	27.15
40	0.37	33.85	27.16
45	0.23	33.87	27.18
50	-0.32	33.92	27.25
60	-1.44	34.17	27.49
70	-1.56	34.23	27.55
75	-1.61	34.25	27.57
80	-1.67	34.26	27.58
90	-1.68	34.28	27.59
100	-1.62	34.29	27.60
125	-1.20	34.34	27.63
150	-0.57	34.41	27.66
175	-0.19	34.45	27.68
200	0.16	34.51	27.70
250	0.59	34.57	27.73
300	0.82	34.62	27.75
400	1.07	34.67	27.77
500	1.07	34.69	27.79
600	1.04	34.70	27.80

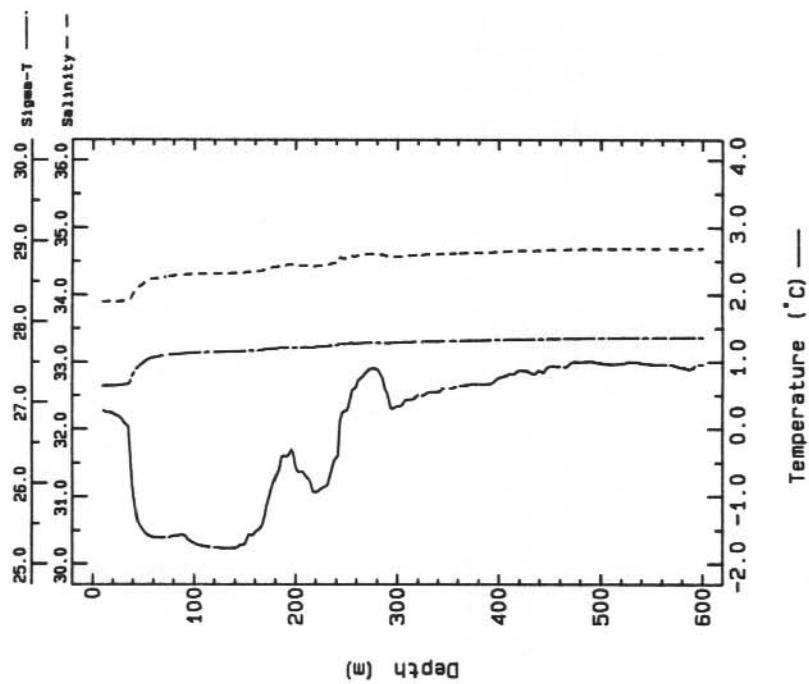


Cruise: SIBEX2 Station: 47  
19 JAN 1985 2038 GMT  
Latitude : 65.00.00S  
Longitude: 78.00.10E  
Depth: CTD 610 m Bottom NR

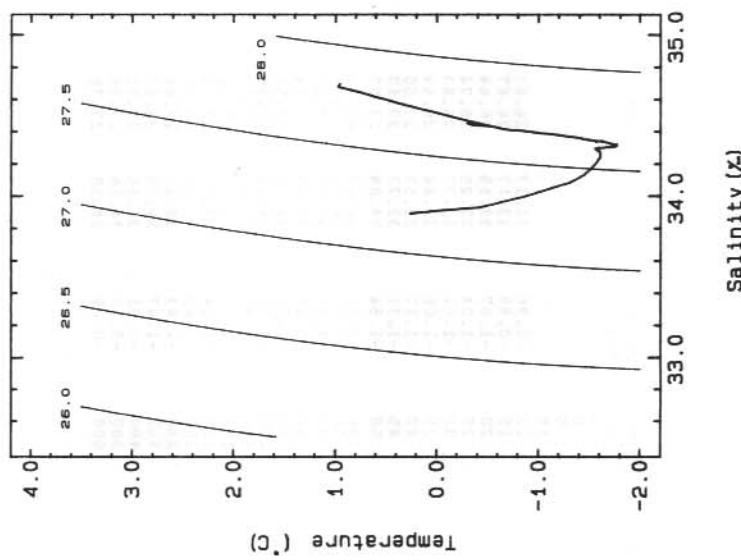


Cruise : SIBEX2 Station: 4B  
 Station number : 48  
 Date : 20 JAN 1985  
 Start Time : 0424 GMT  
 Ship : NEELA DAN  
 Position : 66:00.60S 77:59.20E  
 Cast Depth (m) : 614  
 Bottom Depth (m) : Not Recorded

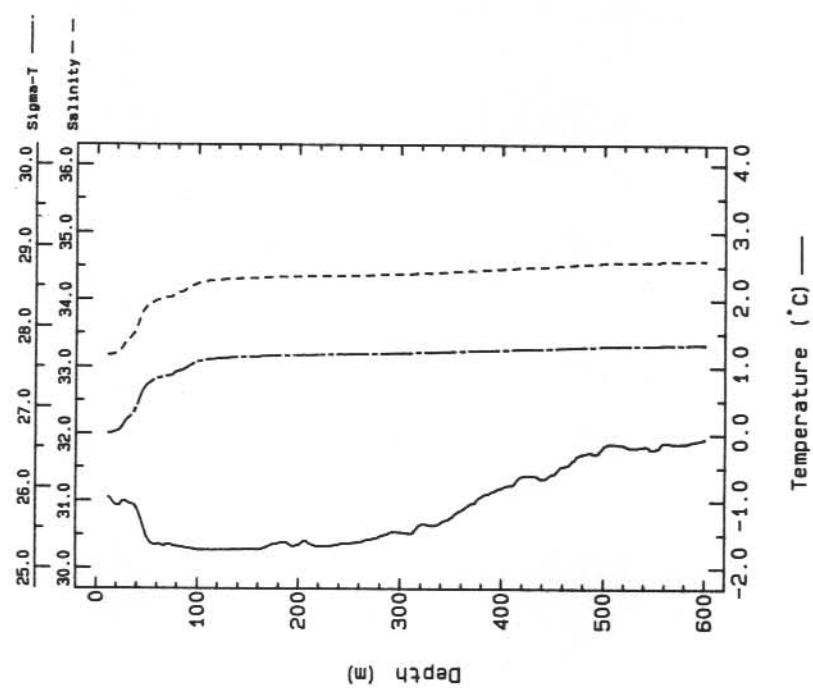
Depth d bar	Temperature (deg C)	Salinity	Sigma-T
0			
5	0.26	33.89	27.20
10	0.24	33.89	27.20
15	0.23	33.89	27.20
20	0.19	33.90	27.21
25	0.13	33.90	27.21
30	0.04	33.91	27.22
35	-0.87	34.00	27.34
40	-1.36	34.10	27.44
45	-1.50	34.16	27.49
50	-1.61	34.24	27.56
60	-1.61	34.26	27.58
70	-1.61	34.26	27.58
75			
80	-1.59	34.28	27.59
90	-1.58	34.30	27.60
100	-1.69	34.31	27.61
125	-1.77	34.31	27.62
150	-1.70	34.33	27.63
175	-0.96	34.40	27.66
200	-0.53	34.43	27.67
250	0.26	34.54	27.72
300	0.34	34.57	27.74
400	0.76	34.65	27.78
500	0.98	34.68	27.79
600	0.96	34.69	27.80



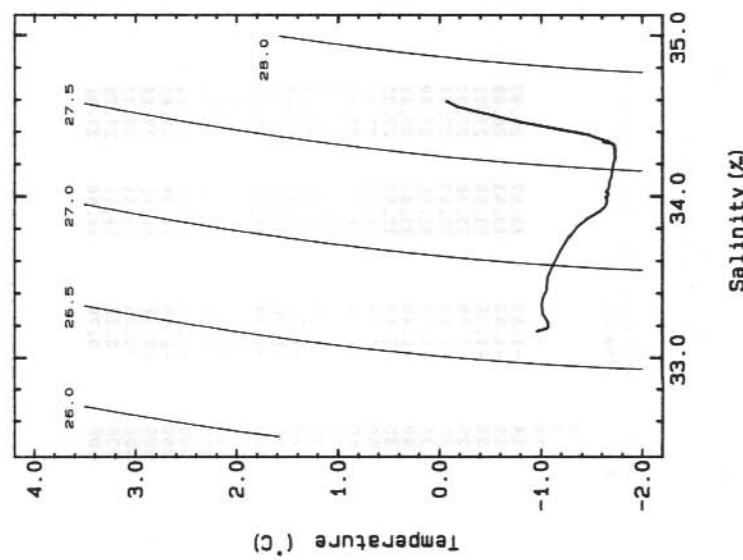
Cruise: SIBEX2 Station: 48  
20 JAN 1985 0424 GMT  
Latitude : 66.00-60S  
Longitude: 77.59-20E  
Depth: CTD 614 m Bottom NR



Cruise : SIBEX2  
 Station number : 49  
 Date : 20 JAN 1985  
 Start Time : 0948 GMT  
 Ship : NELIA DAN  
 Position : 66°3.59S 77°57.20E  
 Cast Depth (m) : 610  
 Bottom Depth (m) : 1200 m  
  
 Depth d bar (deg C) Temperature Salinity Sigma-T  
  
 0 -0.96 33.17 26.67  
 5 -0.99 33.17 26.67  
 10 -1.07 33.19 26.69  
 15 -1.04 33.25 26.74  
 20 -1.02 33.37 26.83  
 25 -1.06 33.44 26.89  
 30 -1.12 33.57 27.00  
 35 -1.31 33.77 27.17  
 40 -1.54 33.89 27.27  
 45 -1.65 33.99 27.35  
 50 -1.65 34.03 27.39  
 60 -1.66 34.04 27.40  
 70 -1.68 34.09 27.44  
 75 -1.71 34.16 27.50  
 80 -1.74 34.24 27.56  
 90 -1.73 34.29 27.60  
 100 -1.72 34.31 27.62  
 125 -1.64 34.34 27.64  
 150 -1.65 34.34 27.64  
 175 -1.63 34.36 27.66  
 200 -1.63 34.38 27.67  
 250 -1.47 34.46 27.71  
 300 -0.81 34.56 27.76  
 400 -0.17 34.59 27.78  
 500 -0.06



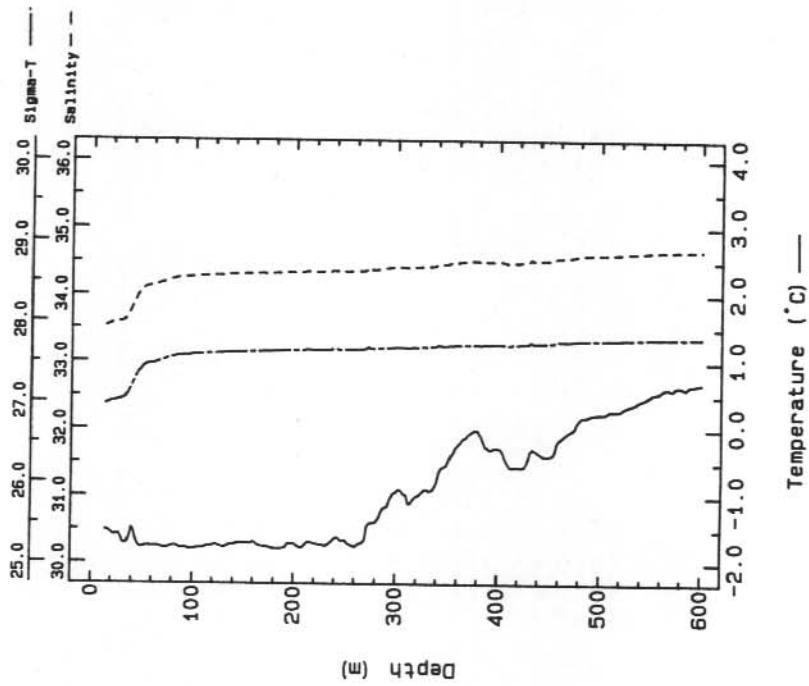
Cruise: SIBEX2 Station: 49  
20 JAN 1985 0948 GMT  
Latitude : 66.33.59S  
Longitude: 77.57.20E  
Depth: CTD 610 m Bottom 1200 m



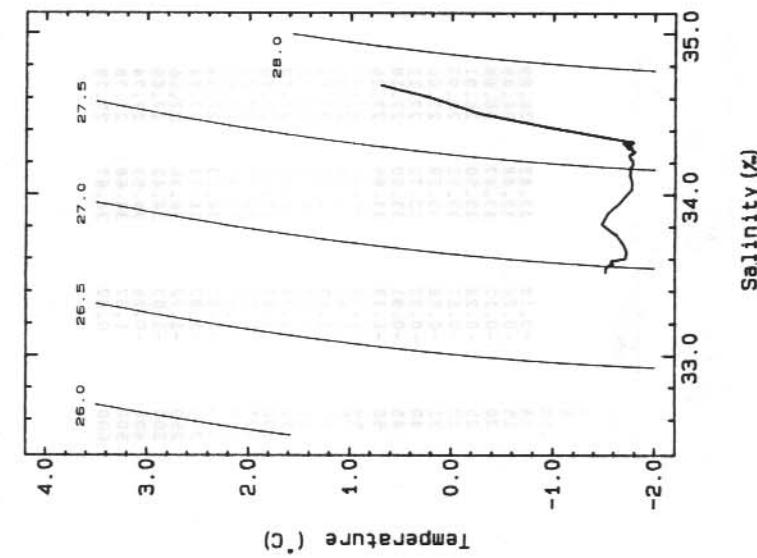
Cruise : SIBEX2  
 Station number : 50  
 Date : 21 JAN 1985  
 Start Time : 0412 GMT  
 Ship : NELLA DAN  
 Position : 65:17.20S 83:02.30E  
 Cast Depth (m) : 608  
 Bottom Depth (m) : Not Recorded

Depth (bar)	Temperature (deg C)	Salinity	Sigma-T
0	-1.48	33.82	27.21
5	-1.52	33.52	26.97
10	-1.52	33.53	26.98
15	-1.56	33.56	27.01
20	-1.58	33.58	27.02
25	-1.64	33.60	27.03
30	-1.71	33.66	27.09
35	-1.71	33.66	27.09
40	-1.48	33.82	27.35
45	-1.69	33.98	27.35
50	-1.78	34.07	27.42
60	-1.76	34.13	27.48
70	-1.78	34.18	27.51
75	-1.78	34.21	27.54
80	-1.75	34.23	27.56
90	-1.78	34.26	27.58
100	-1.79	34.27	27.59
125	-1.74	34.29	27.61
150	-1.71	34.31	27.62
175	-1.77	34.32	27.63
200	-1.72	34.33	27.64
250	-1.65	34.35	27.65
300	-0.94	34.42	27.68
400	-0.28	34.51	27.72
500	0.24	34.61	27.78
600	0.70	34.68	27.81

Cruise: SIBEX2 Station: 50  
 21 JAN 1985 0412 GMT  
 Latitude : 65:17.20S  
 Longitude: 83:02.30E  
 Depth: CTD 608 m Bottom NR

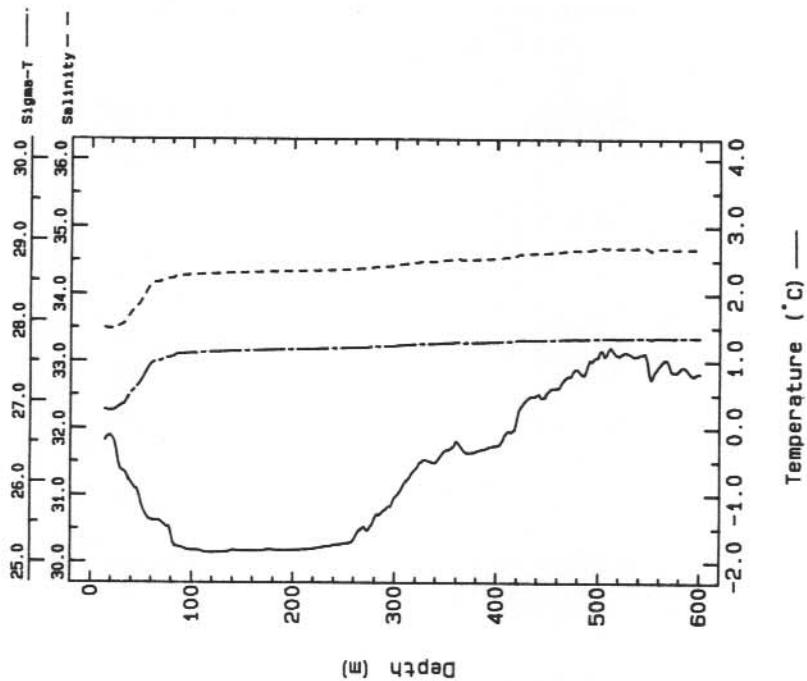


Cruise: SIBEX2 Station: 50  
21 JAN 1985 0412 GMT  
Latitude : 65°17'.20S  
Longitude: 83°02'.30E  
Depth: CTD 608 m Bottom NR

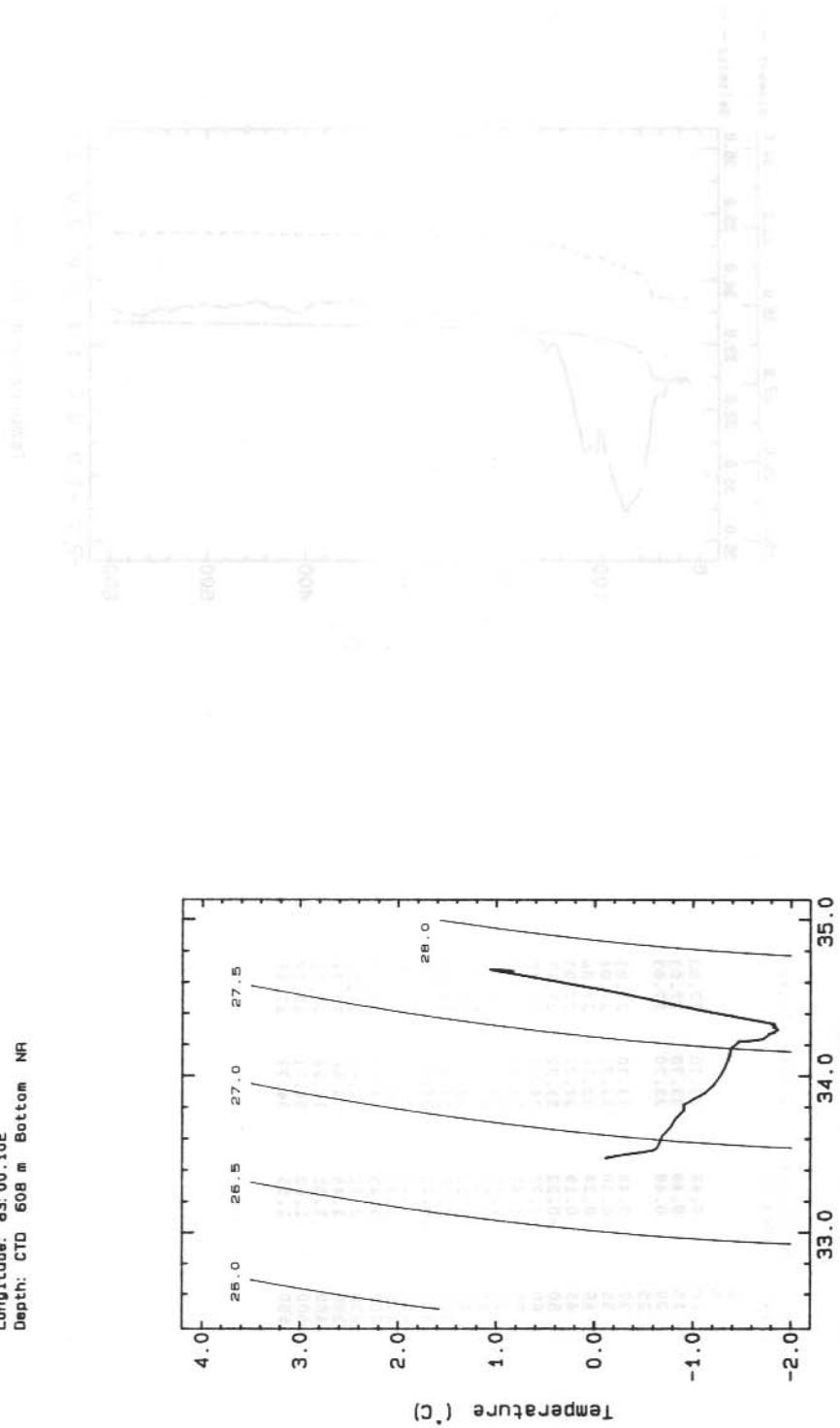


Cruise : SIBEX2  
 Station number : 51  
 Date : 21 JAN 1985  
 Start Time : 0735 GMT  
 Ship : NEELA DAN  
 Position : 64°59'.70S 83°00'.10E  
 Cast Depth (m) : 608  
 Bottom Depth (m) : Not Recorded

Depth d bar	Temperature (deg C)	Salinity	Sigma-T
0			
5			
10	-0.19	33.49	26.89
14	-0.16	33.48	26.89
15	-0.12	33.47	26.88
20	-0.28	33.50	26.91
25	-0.62	33.53	26.95
30	-0.68	33.59	27.00
35	-0.82	33.72	27.11
40	-0.91	33.80	27.18
45	-1.13	33.89	27.26
50	-1.38	34.14	27.47
60	-1.40	34.19	27.51
70	-1.47	34.22	27.54
75	-1.57	34.23	27.55
80	-1.79	34.27	27.59
90	-1.83	34.28	27.60
100	-1.86	34.30	27.61
125	-1.84	34.31	27.62
150	-1.81	34.33	27.64
175	-1.82	34.34	27.64
200	-1.72	34.36	27.66
250	-1.03	34.43	27.69
300	-0.26	34.53	27.74
400	1.07	34.68	27.78
500	0.82	34.67	27.79
600			



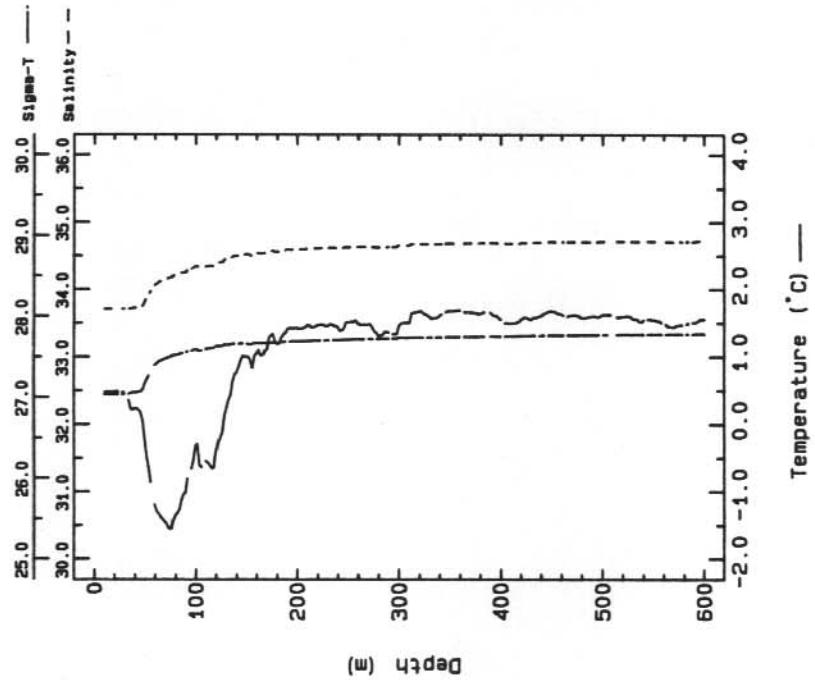
Cruise: SIBEX2 Station: 51  
21 JAN 1985 0735 GMT  
Latitude : 64° 59.7' N  
Longitude: 83° 00.1' E  
Depth: CTD 608 m Bottom NR



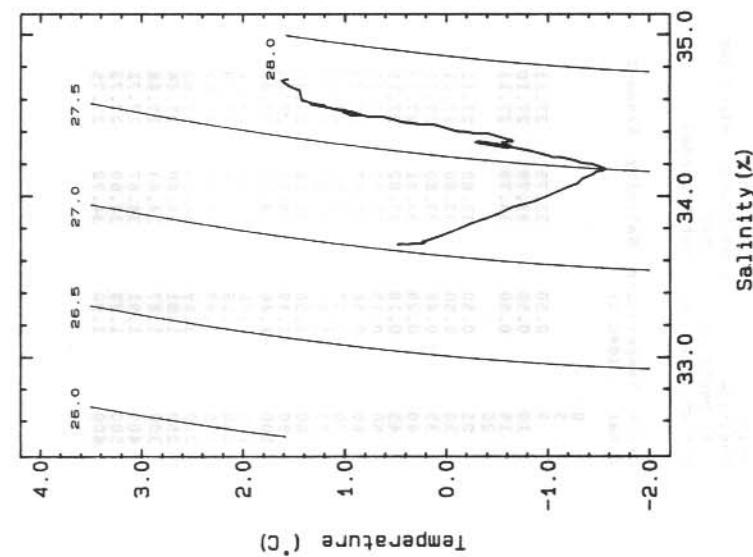
Cruise : SIBEX2  
 Station number : 52  
 Date : 21 JAN 1985  
 Start Time : 1757 GMT  
 Ship : NELLA DAN  
 Position : 63:59.90S 83:00.30E  
 Cast Depth (m) : 612  
 Bottom Depth (m) : Not Recorded

Cruise: SIBEX2 Station: 52  
 21 JAN 1985 1757 GMT  
 Latitude : 63:59.90S  
 Longitude: 83:00.30E  
 Depth: CTD 612 m Bottom NR

Depth d bar	Temperature (deg C)	Salinity	Sigma-T
0			
5	0.48	33.70	27.03
10	0.48	33.70	27.03
15	0.48	33.70	27.03
20	0.48	33.70	27.03
25			
30	0.46	33.70	27.03
35	0.30	33.70	27.04
40	0.24	33.72	27.06
45	0.19	33.72	27.07
50	-0.22	33.82	27.17
60	-1.20	34.06	27.40
70	-1.45	34.14	27.47
75	-1.56	34.17	27.50
80	-1.35	34.21	27.52
90	-1.02	34.25	27.55
100	-0.31	34.34	27.59
125	-0.15	34.40	27.63
150	1.00	34.52	27.66
175	1.33	34.57	27.68
200	1.43	34.59	27.69
250	1.51	34.63	27.71
300	1.45	34.66	27.74
400	1.55	34.68	27.75
500	1.62	34.71	27.77
600	1.55	34.72	27.78



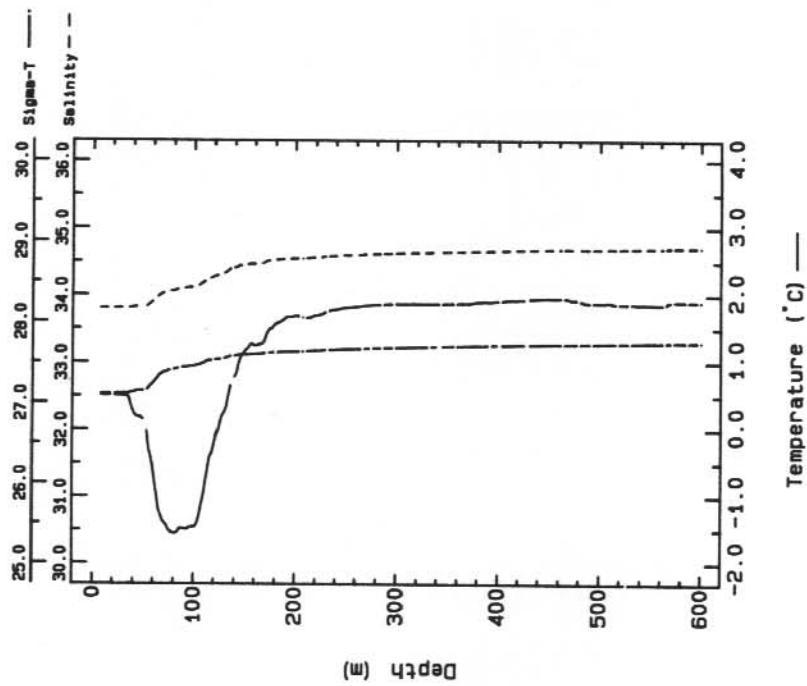
Cruise: SIBEX2 Station: 52  
21 JAN 1985 1757 GMT  
Latitude : 63°55.90S  
Longitude: 83°00.30E  
Depth: CTD 612 m Bottom NR



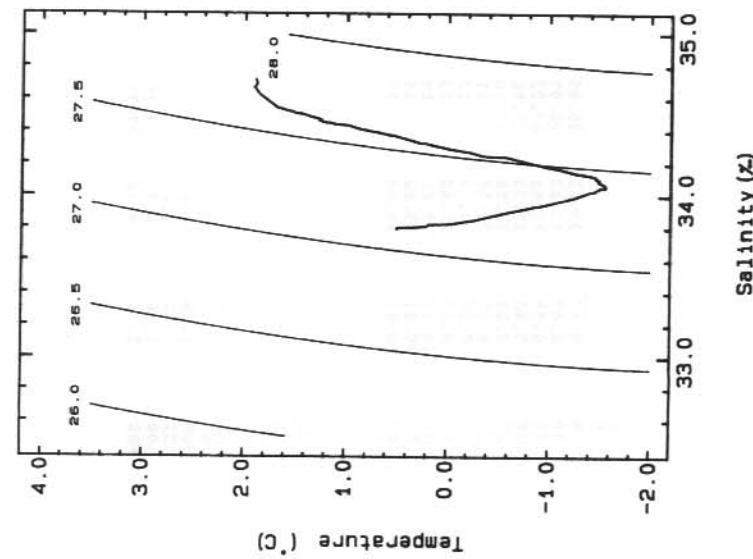
Cruise : SIBEX2  
 Station number : 53  
 Date : 22 JAN 1985  
 Start Time : 0023 GMT  
 Ship : NELIA DAN  
 Position : 62°59'.90S 83°00'.20E  
 Cast Depth (m) : 610  
 Bottom Depth (m) : Not Recorded

Cruise: SIBEX2 Station: 53  
 22 JAN 1985 0023 GMT  
 Latitude : 62° 59'.90S  
 Longitude: 83° 00'.20E  
 Depth: CTD 610 m Bottom NR

Depth d bar	Temperature (deg C)	Salinity	Sigma-T
0			
5	0.50	33.79	27.11
8	0.50	33.79	27.10
10	0.50	33.79	27.10
15	0.50	33.79	27.11
20			
25	0.50	33.80	27.11
30	0.50	33.80	27.11
35	0.48	33.80	27.11
40	0.28	33.81	27.13
45	0.18	33.82	27.15
50	0.15	33.82	27.15
60	-0.56	33.90	27.24
70	-1.37	34.02	27.37
75	-1.47	34.04	27.39
80	-1.56	34.06	27.41
90	-1.49	34.10	27.44
100	-1.46	34.11	27.45
125	0.06	34.30	27.54
150	1.16	34.45	27.59
175	1.49	34.51	27.62
200	1.69	34.54	27.63
250	1.81	34.60	27.66
300	1.87	34.63	27.68
400	1.91	34.67	27.71
500	1.88	34.69	27.73
600	1.90	34.72	27.75

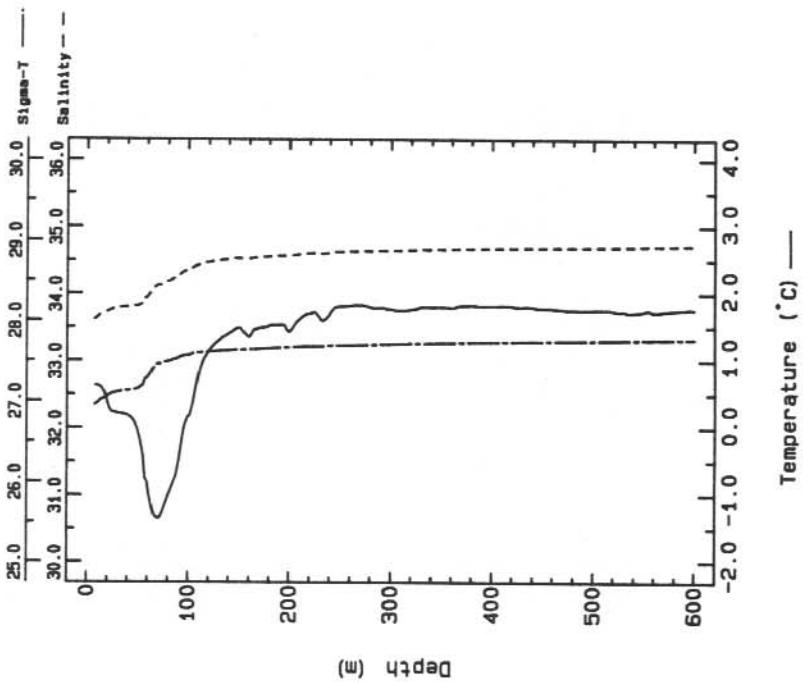


Cruise: SIBEX2 Station: 53  
22 JAN 1985 0023 GMT  
Latitude : 62° 59' 90S  
Longitude: 83° 00' 20E  
Depth: CTD 610 m Bottom NR

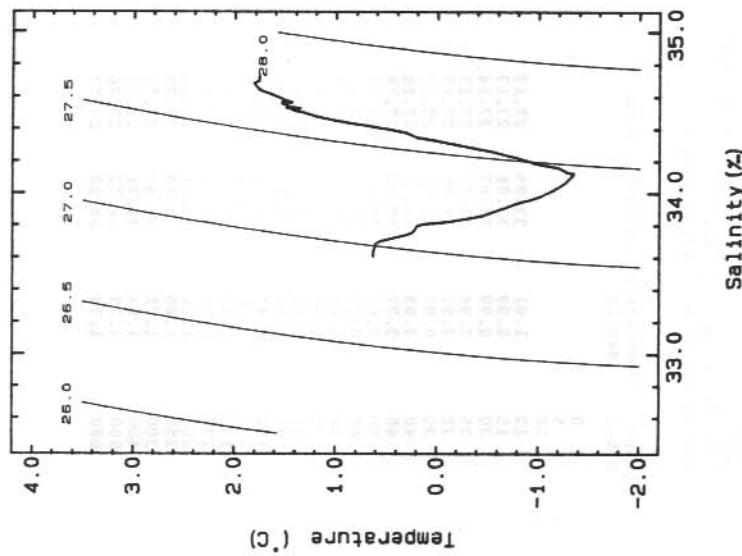


Cruise : SIBEX2  
 Station number : 54  
 Date : 22 JAN 1985  
 Start Time : 1323 GMT  
 Ship : NELLA DAN  
 Position : 61:59.30S 83:00.20E  
 Cast Depth (m) : 608  
 Bottom Depth (m) : Not Recorded

Depth d bar	Temperature (deg C)	Salinity	Sigma-T
0			
5	0.63	33.61	26.95
8	0.63	33.63	26.97
10	0.59	33.69	27.02
15	0.40	33.73	27.06
20	0.40	33.76	27.10
25	0.23	33.78	27.11
30	0.21	33.78	27.11
35	0.20	33.79	27.12
40	0.18	33.80	27.13
45	0.13	33.81	27.14
50	-0.01	33.82	27.15
60	-0.81	33.94	27.29
70	-1.35	34.13	27.46
75	-1.24	34.15	27.47
80	-1.03	34.18	27.49
90	-0.98	34.26	27.53
100	0.17	34.35	27.57
125	1.23	34.48	27.61
150	1.49	34.53	27.64
175	1.50	34.55	27.65
200	1.42	34.56	27.67
250	1.01	34.63	27.69
300	1.76	34.64	27.70
400	1.82	34.68	27.73
500	1.76	34.70	27.75
600	1.76	34.72	27.77

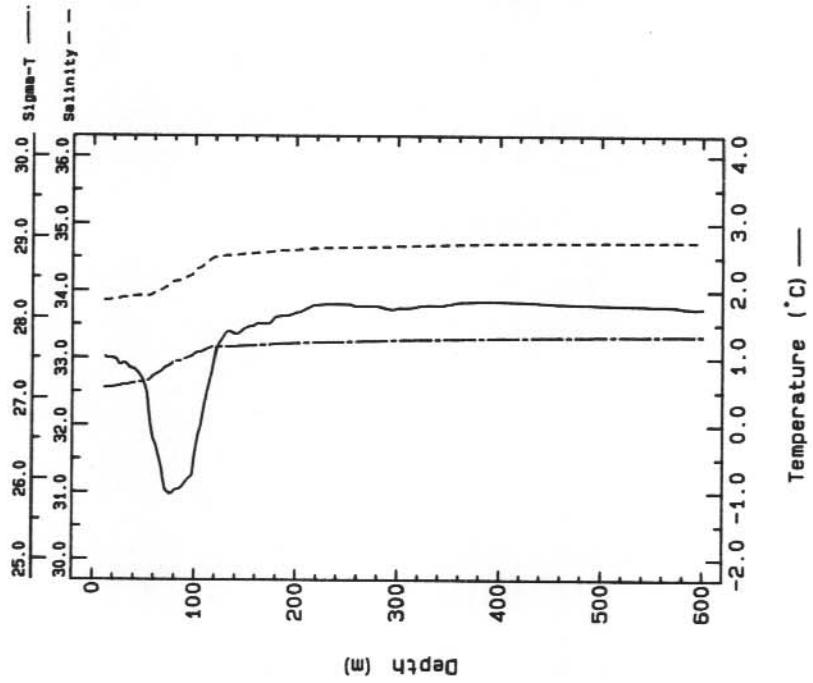


Cruise: SIBEX2 Station: 54  
22 JAN 1985 1323 GMT  
Latitude : 61° 59'.30S  
Longitude: 83° 00'.20E  
Depth: CTD 608 m Bottom NR

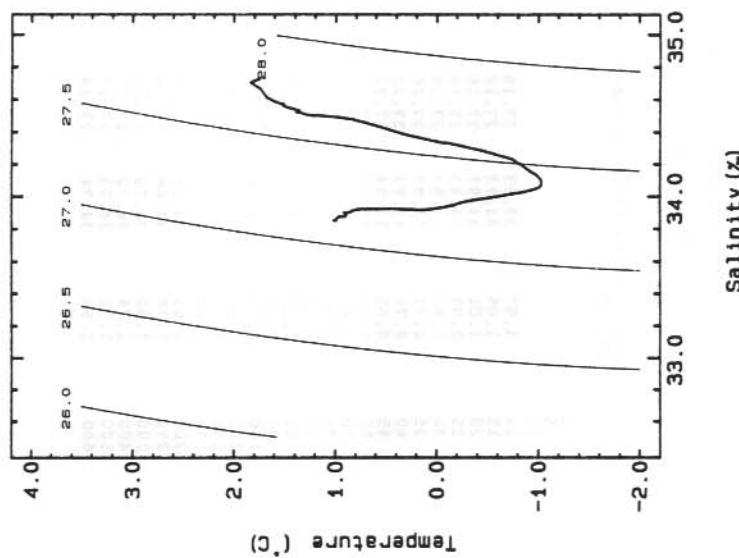


Cruise : SIBEX2 Station: 55  
 Station number : 55  
 Date : 22 JAN 1985  
 Start Time : 1917 GMT  
 Ship : NELLA DAN  
 Position : 60:59.80S 83:00.00E  
 Cast Depth (m) : 608  
 Bottom Depth (m) : Not Recorded

Depth d bar	Temperature (deg C)	Salinity	Sigma-T
0			
5			
10	1.01	33.85	27.12
15	0.99	33.86	27.13
20	0.99	33.87	27.14
25	0.94	33.88	27.15
30	0.92	33.90	27.17
35	0.87	33.90	27.17
40	0.83	33.91	27.18
45	0.77	33.92	27.19
50	0.65	33.92	27.20
60	-0.22	33.96	27.27
70	-0.83	34.03	27.36
75	-1.02	34.06	27.40
80	-0.98	34.14	27.45
90	-0.88	34.17	27.48
100	-0.47	34.28	27.55
125	1.25	34.50	27.63
150	1.44	34.55	27.65
175	1.54	34.58	27.67
200	1.68	34.61	27.68
250	1.80	34.64	27.70
300	1.75	34.67	27.72
400	1.84	34.71	27.75
500	1.79	34.72	27.76
600	1.74	34.73	27.77

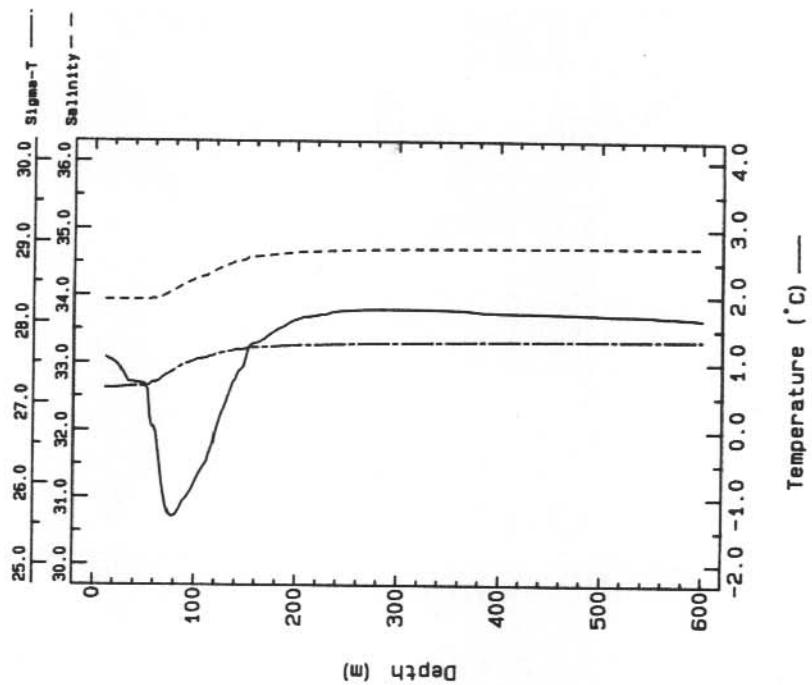


Cruise: SIBEX2 Station: 55  
22 JAN 1985 1917 GMT  
Latitude : 60:59.00S  
Longitude: 03:00.00E  
Depth: CTD 608 m Bottom NR

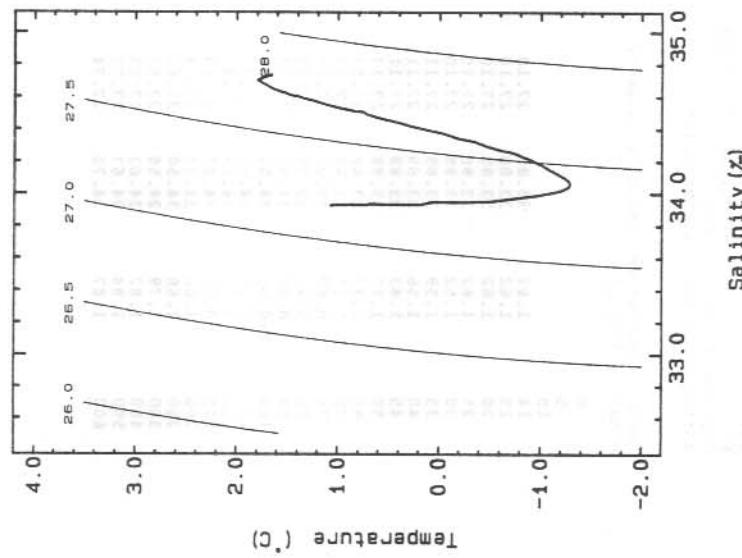


Cruise : SIBEX2  
 Station number : 56  
 Date : 23 JAN 1985  
 Start Time : 0133 GMT  
 Ship : NELLA DAN  
 Position : 60:00.10S 82:58.90E  
 Cast Depth (m) : 614  
 Bottom Depth (m) : Not Recorded

Depth d bar	Temperature (deg C)	Salinity	Sigma-T
0			
5			
10	1.07	33.93	27.18
12			
15	1.05	33.93	27.18
20	1.01	33.93	27.18
25	0.94	33.93	27.19
30	0.83	33.93	27.19
35	0.71	33.93	27.20
40	0.70	33.93	27.21
45	0.69	33.94	27.21
50	0.68	33.94	27.21
60	0.05	33.95	27.26
70	-0.98	33.99	27.33
75	-1.25	34.04	27.37
80	-1.28	34.08	27.41
90	-1.04	34.17	27.48
100	-0.79	34.24	27.53
125	0.22	34.41	27.62
150	1.05	34.54	27.67
175	1.44	34.61	27.70
200	1.64	34.65	27.72
250	1.78	34.68	27.74
300	1.80	34.70	27.75
400	1.74	34.72	27.77
500	1.72	34.73	27.77
600	1.65	34.74	27.79



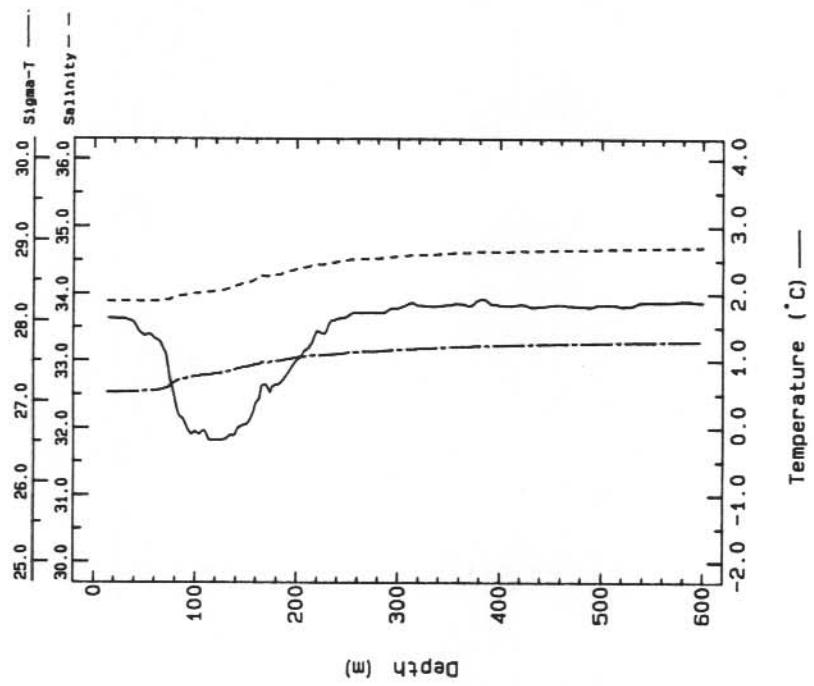
Cruise: SIBEX2 Station: 56  
23 JAN 1985 0133 GMT  
Latitude : 60:00.10S  
Longitude: 82:58.90E  
Depth: CTD 614 m Bottom NR



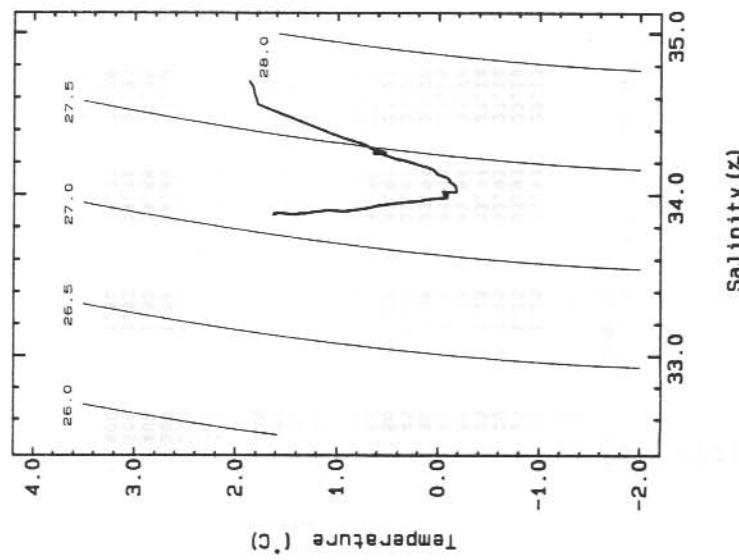
Cruise : SIBEX2  
 Station number : 57  
 Date : 23 JAN 1985  
 Start Time : 1620 GMT  
 Ship : NELLA DAN  
 Position : 60°00'.10S 88°00'.30E  
 Cast Depth (m) : 608  
 Bottom Depth (m) : Not Recorded

Cruise: SIBEX2 Station: 57  
 23 JAN 1985 1620 GMT  
 Latitude : 60° 00'.10S  
 Longitude: 88° 00'.30E  
 Depth: CTD 608 m Bottom NR

Depth d bar	Temperature (deg C)	Salinity	Sigma-T
0			
5			
10	1.62	33.88	27.10
14	1.62	33.88	27.10
15	1.62	33.88	27.10
20	1.62	33.88	27.10
25	1.62	33.88	27.10
30	1.62	33.88	27.10
35	1.59	33.89	27.11
40	1.56	33.89	27.11
45	1.43	33.88	27.11
50	1.37	33.88	27.12
60	1.33	33.88	27.13
70	1.15	33.90	27.15
75	0.82	33.91	27.18
80	0.45	33.95	27.23
90	0.08	33.97	27.27
100	-0.05	34.01	27.31
125	-0.18	34.05	27.35
150	0.05	34.15	27.42
175	0.57	34.27	27.49
200	1.00	34.37	27.54
250	1.66	34.50	27.60
300	1.79	34.56	27.63
400	1.82	34.63	27.69
500	1.84	34.67	27.72
600	1.87	34.70	27.74

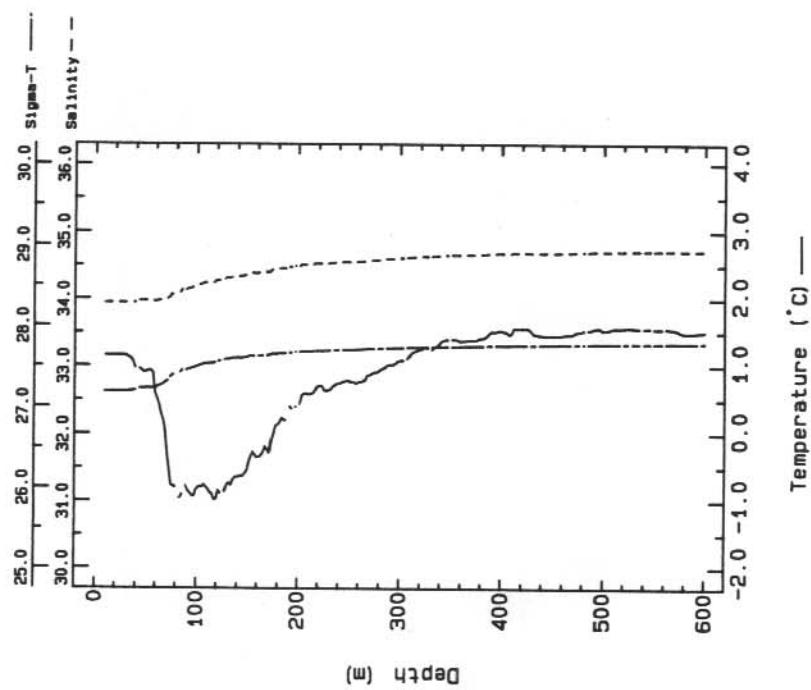


Cruise: SIBEX2 Station: 57  
23 JAN 1985 1620 GMT  
Latitude : 60.00.10S  
Longitude: 88.00.30E  
Depth: CTD 600 m Bottom NR

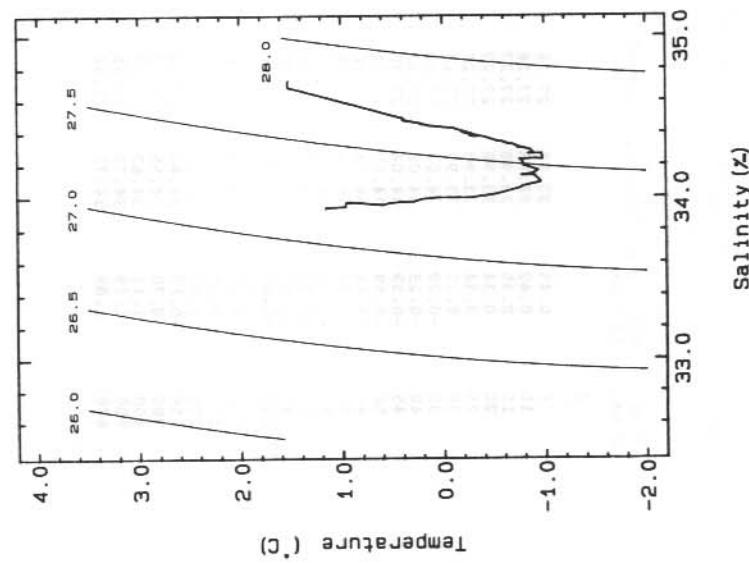


Cruise : SIBEX2 Station: 58  
 Station number : 58  
 Date : 23 JAN 1985  
 Start Time : 2359 GMT  
 Ship : NEILIA DAN  
 Position : 60:59.80S 88:00.40E  
 Cast Depth (m) : 608  
 Bottom Depth (m) : Not Recorded

Depth d bar	Temperature (deg C)	Salinity	Sigma-T
0			
5	1.15	33.93	27.17
10	1.15	33.93	27.18
15	1.15	33.93	27.18
20	1.15	33.93	27.18
25	1.15	33.94	27.18
30	1.15	33.94	27.18
35	1.11	33.94	27.18
40	0.96	33.94	27.20
45	0.94	33.97	27.22
50	0.90	33.97	27.22
60	0.59	33.95	27.23
70	0.05	34.00	27.30
75	-0.65	34.04	27.36
80	-0.80	34.07	27.39
90	-0.77	34.13	27.44
100	-0.83	34.19	27.49
125			
150	-0.54	34.35	27.60
175	-0.05	34.43	27.65
200			
250	0.78	34.55	27.70
300	1.08	34.61	27.72
400	1.52	34.68	27.75
500	1.53	34.71	27.77
600	1.52	34.72	27.79

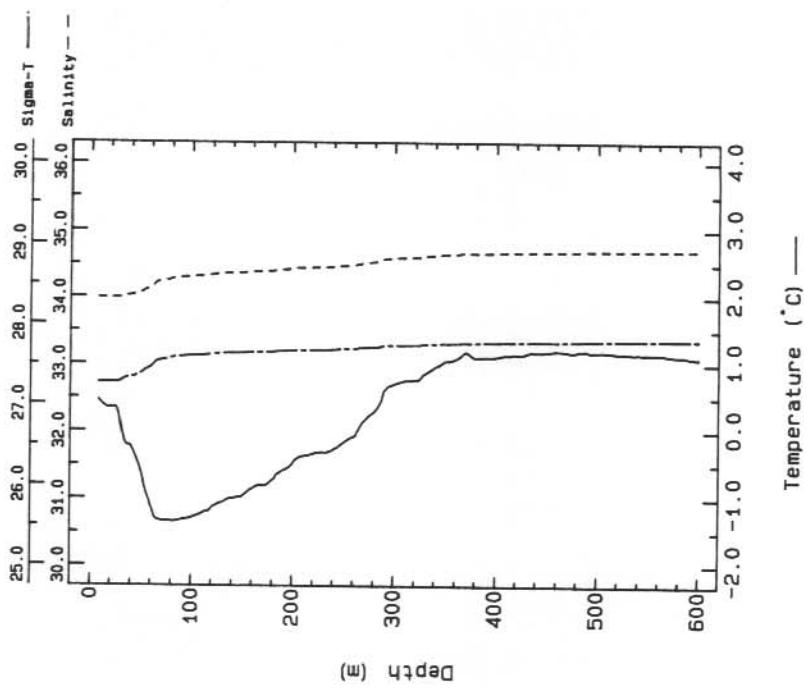


Cruise: SIBEX2 Station: 58  
23 JAN 1985 2359 GMT  
Latitude : 60° 59.80S  
Longitude: 88° 00.40E  
Depth: CTD 608 m Bottom NR

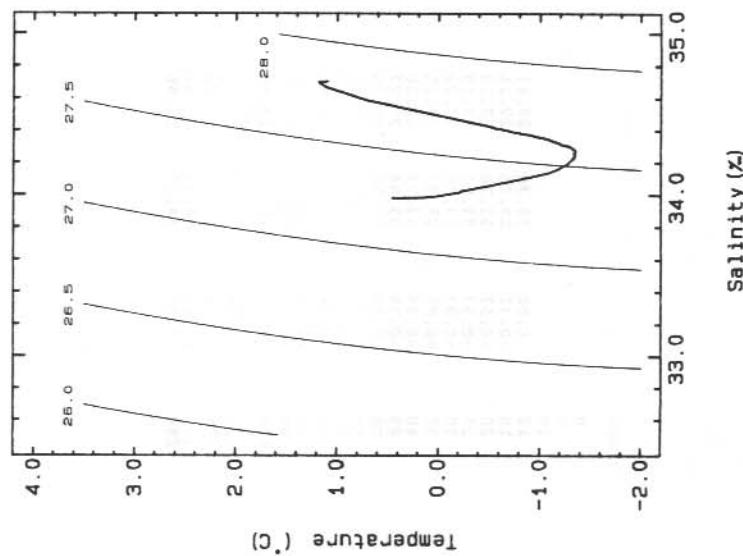


Cruise : SIBEX2  
 Station number : 59  
 Date : 24 JAN 1985  
 Start Time : 0607 GMT  
 Ship : NELLA DAN  
 Position : 62°00'.40S 87°59'.80E  
 Cast Depth (m) : 610  
 Bottom Depth (m) : Not Recorded

Depth d bar	Temperature (deg C)	Salinity	Sigma-T
0			
5	0.45	33.98	27.26
10	0.42	33.98	27.16
15	0.35	33.98	27.27
20	0.34	33.98	27.27
25	0.34	33.98	27.27
30	0.11	33.99	27.28
35	-0.20	34.02	27.32
40	-0.23	34.03	27.33
45	-0.39	34.04	27.35
50	-0.59	34.07	27.38
60	-1.11	34.14	27.46
70	-1.34	34.24	27.55
75	-1.35	34.25	27.56
80	-1.35	34.27	27.58
90	-1.32	34.29	27.59
100	-1.29	34.30	27.60
125	-1.09	34.35	27.63
150	-0.97	34.36	27.64
175	-0.79	34.39	27.65
200	-0.48	34.43	27.67
250	-0.17	34.47	27.69
300	0.70	34.59	27.73
400	1.11	34.67	27.77
500	1.19	34.70	27.79
600	1.09	34.71	27.80

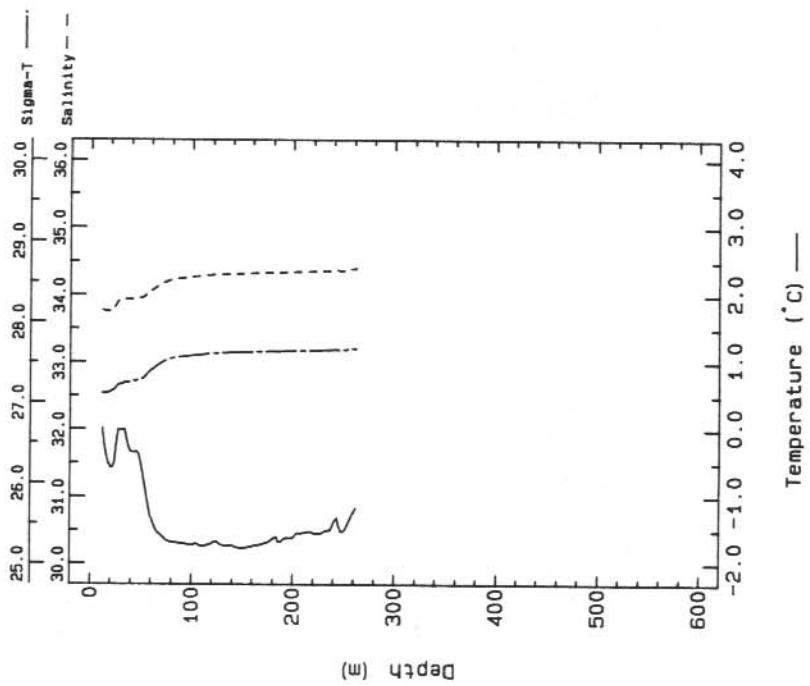


Cruise: SIBEX2 Station: 59  
24 JAN 1985 0607 GMT  
Latitude : 62° 00'.40S  
Longitude: 87° 59'.80E  
Depth: CTD 610 m Bottom NR

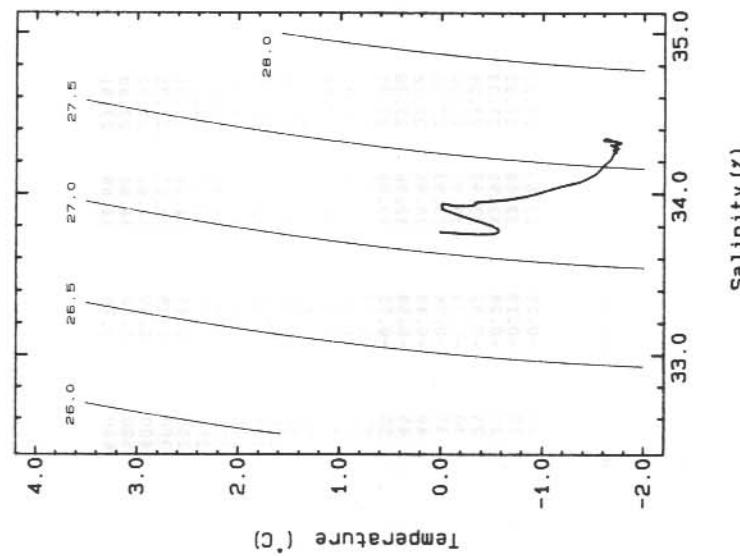


Cruise : SIBEX2  
 Station number : 61  
 Date : 24 JAN 1985  
 Start Time : 2009 GMT  
 Ship : NELLA DAN  
 Position : 64:00.00S 88:00.00E  
 Cast Depth (m) : 266  
 Bottom Depth (m) : Not Recorded

Depth d bar	Temperature (deg C)	Salinity	Sigma-T
0			
5			
10	0.00	33.76	27.11
15	-0.31	33.75	27.11
20	-0.57	33.76	27.13
25	-0.37	33.83	27.18
30	-0.03	33.90	27.22
35	-0.08	33.93	27.25
40	-0.34	33.93	27.26
45	-0.34	33.94	27.27
50	-0.49	33.96	27.29
60	-1.30	34.06	27.41
70	-1.58	34.16	27.49
75	-1.65	34.20	27.53
80	-1.68	34.22	27.55
90	-1.70	34.25	27.57
100	-1.73	34.27	27.58
125	-1.68	34.31	27.61
150	-1.77	34.32	27.63
175	-1.68	34.33	27.64
200	-1.62	34.34	27.64
250	-1.52	34.37	27.66

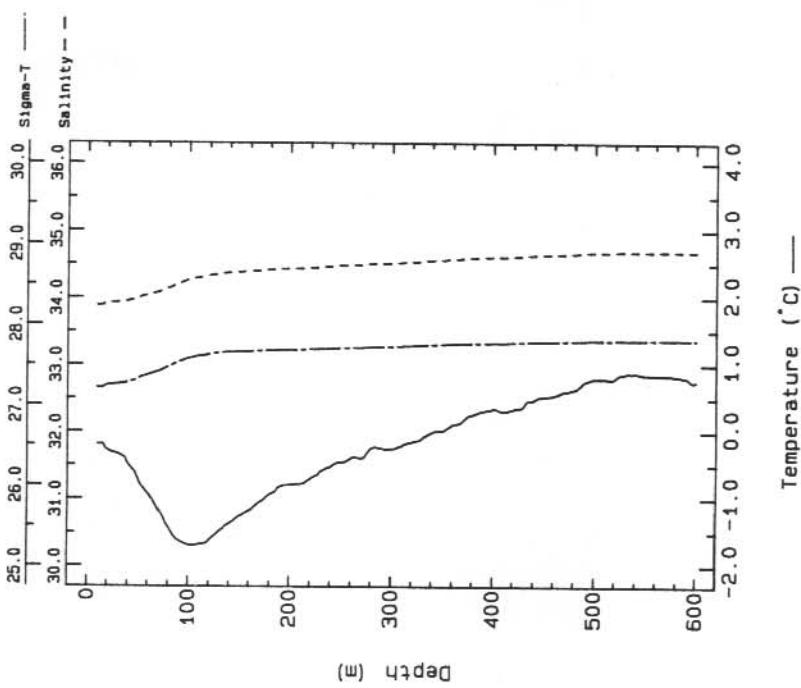


Cruise: SIBEX2 Station: 61  
24 JAN 1985 2009 GMT  
Latitude : 64.00.00S  
Longitude: 88.00.00E  
Depth: CTD 266 m Bottom NR

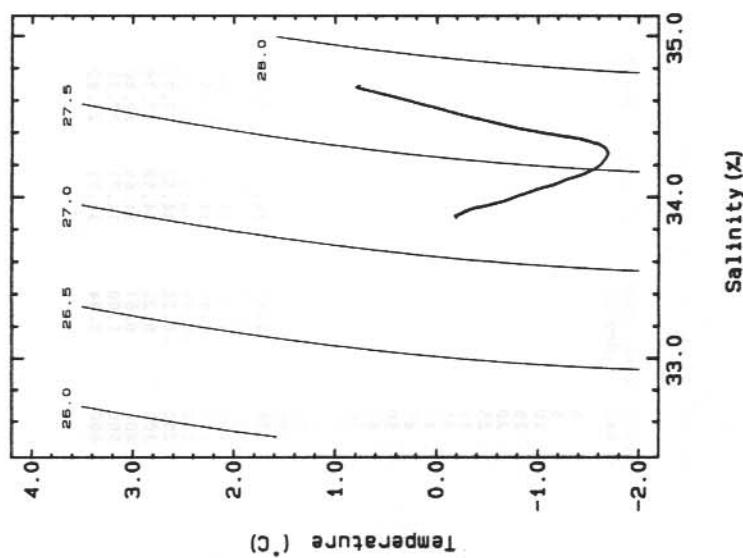


Cruise : SIBEX2  
 Station number : 62  
 Date : 25 JAN 1985  
 Start Time : 0211 GMT  
 Ship : NELLA DAN  
 Position : 64°51'.10S 87°58'.10E  
 Cast Depth (m) : 610  
 Bottom Depth (m) : Not Recorded

Depth d bar	Temperature (deg C)	Salinity	Sigma-T
0			
5	-0.20	33.87	27.21
10	-0.19	33.88	27.21
15	-0.29	33.91	27.24
20	-0.32	33.92	27.25
25	-0.34	33.93	27.26
30	-0.38	33.93	27.26
35	-0.49	33.95	27.26
40	-0.49	33.95	27.28
45	-0.58	33.96	27.30
50	-0.70	33.98	27.32
60	-0.93	34.04	27.37
70	-1.16	34.08	27.41
75	-1.28	34.11	27.44
80	-1.42	34.14	27.47
90	-1.62	34.20	27.53
100	-1.69	34.26	27.58
125	-1.55	34.34	27.64
150	-1.25	34.38	27.66
175	-1.00	34.41	27.67
200	-0.79	34.43	27.68
250	-0.45	34.48	27.71
300	-0.25	34.51	27.73
400	0.35	34.61	27.77
500	0.80	34.68	27.80
600	0.76	34.69	27.81

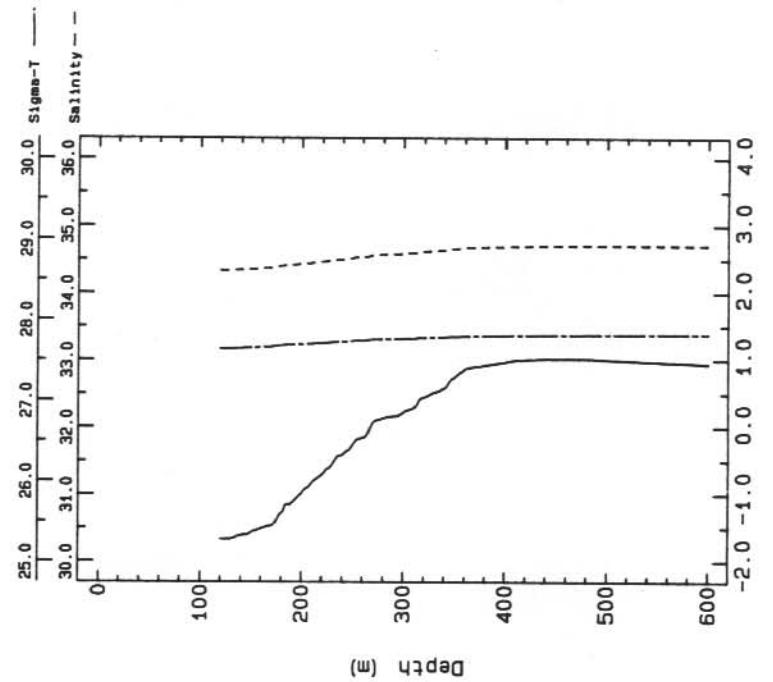
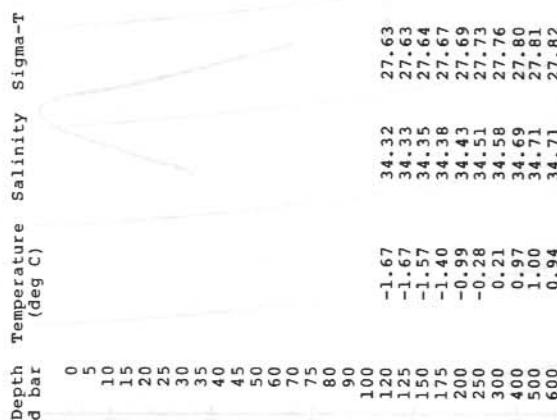


Cruise: SIBEX2 Station: 62  
25 JAN 1985 0211 GMT  
Latitude : 64° 58.10S  
Longitude: 87° 58.10E  
Depth: CTD 610 m Bottom NR

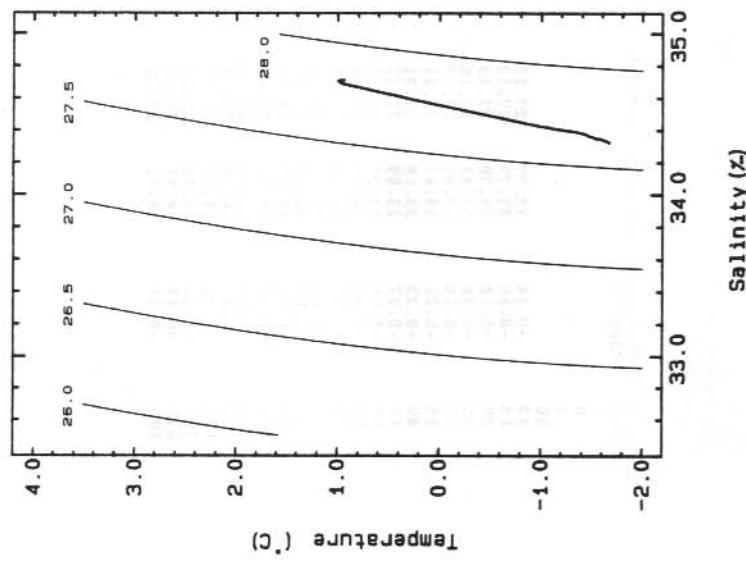


Cruise : SIBEX2  
 Station : 63  
 Station number : 63  
 Date : 26 JAN 1985  
 Start Time : 0132 GMT  
 Ship : NELLA DAN  
 Position : 63:58.80S 92:56.40E  
 Cast Depth (m) : 610  
 Bottom Depth (m) : Not Recorded

Cruise: SIBEX2 Station: 63  
 26 JAN 1985 0132 GMT  
 Latitude : 63:58.80S  
 Longitude: 92:56.40E  
 Depth: CTD 610 m Bottom NR



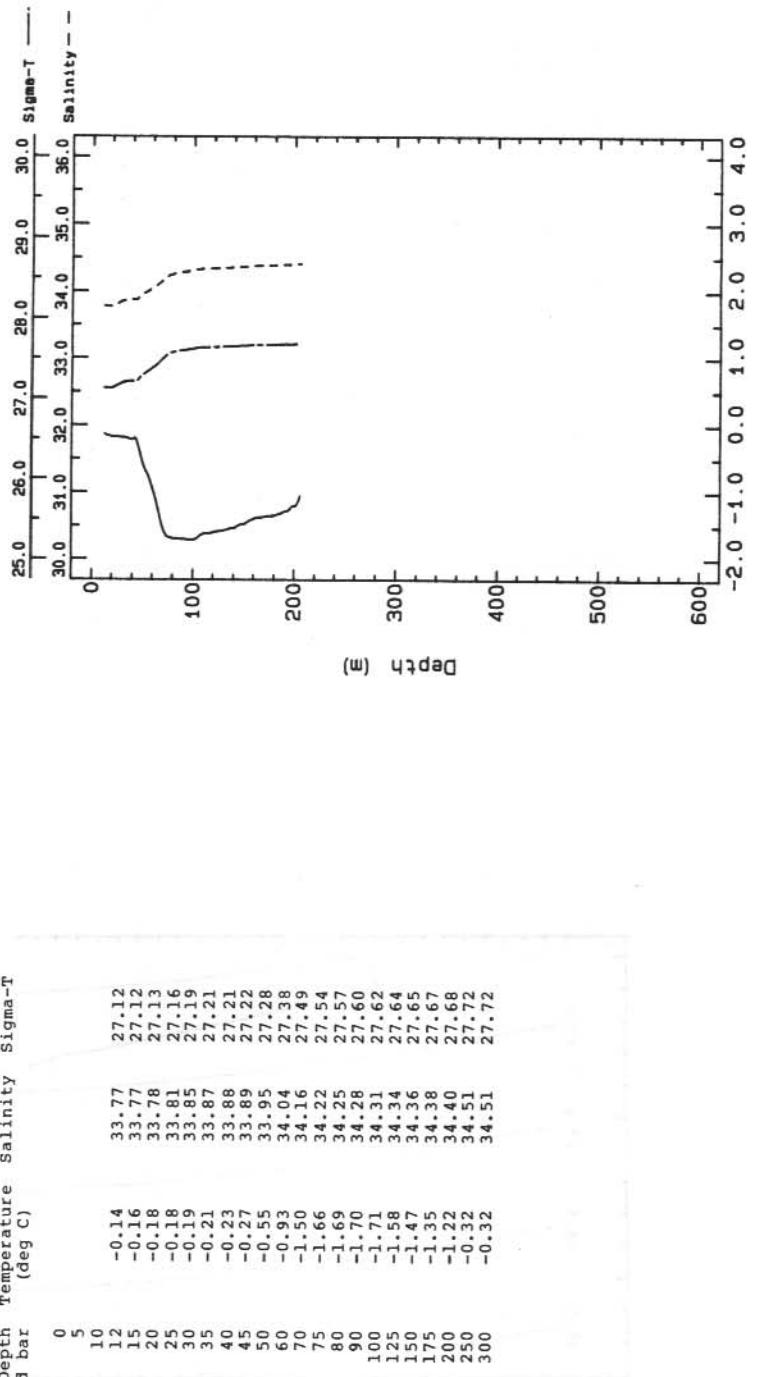
Cruise: SIBEX2 Station: 63  
26 JAN 1985 0132 GMT  
Latitude : 63° 58.80S  
Longitude: 92° 56.40E  
Depth: CTD 610 m Bottom NR



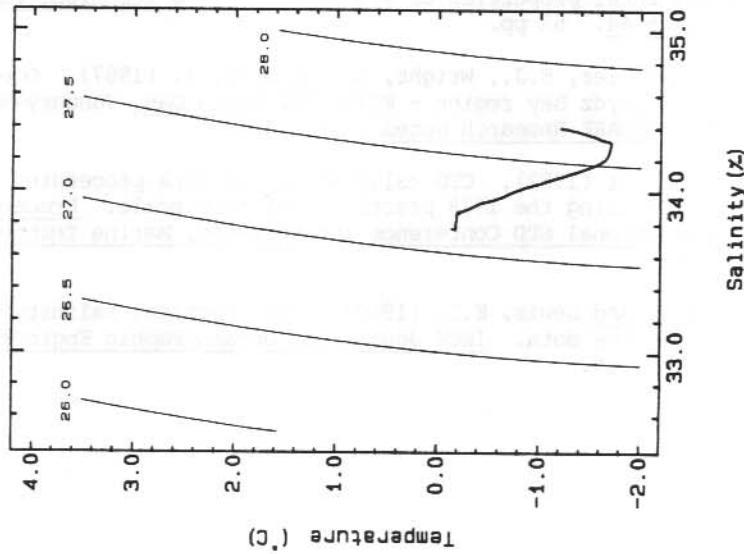
Cruise : SIBEX2  
 Station number : 64  
 Date : 26 JAN 1985  
 Start Time : 0804 GMT  
 Ship : NELLA DAN  
 Position : 62°59'.50S 93°00'.70E  
 Cast Depth (m) : 210  
 Bottom Depth (m) : Not Recorded

Depth d bar	Temperature (deg C)	Salinity	Sigma-T
0			
5			
10	-0.14	33.77	27.12
15	-0.16	33.77	27.12
20	-0.18	33.78	27.13
25	-0.18	33.81	27.16
30	-0.19	33.85	27.19
35	-0.21	33.87	27.21
40	-0.23	33.88	27.21
45	-0.27	33.89	27.22
50	-0.55	33.95	27.28
60	-0.93	34.04	27.38
70	-1.50	34.16	27.49
75	-1.66	34.22	27.54
80	-1.69	34.25	27.57
90	-1.70	34.28	27.60
100	-1.71	34.31	27.62
125	-1.58	34.34	27.64
150	-1.47	34.36	27.65
175	-1.35	34.38	27.67
200	-1.22	34.40	27.68
250	-0.32	34.51	27.72
300	-0.32	34.51	27.72

Cruise: SIBEX2 Station: 64  
 26 JAN 1985 0804 GMT  
 Latitude : 62° 59'.50S  
 Longitude: 93° 00'.70E  
 Depth: CTD 210 m Bottom NR



Cruise: SIBEX2 Station: 64  
26 JAN 1985 0804 GMT  
Latitude: 62° 59' .50S  
Longitude: 93° 00' .70E  
Depth: CTD 210 m Bottom NR



#### 4. DATA STORAGE AND AVAILABILITY

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

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

The Director  
Antarctic Division  
Channel Highway  
KINGSTON TAS 7150

#### ACKNOWLEDGMENTS

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