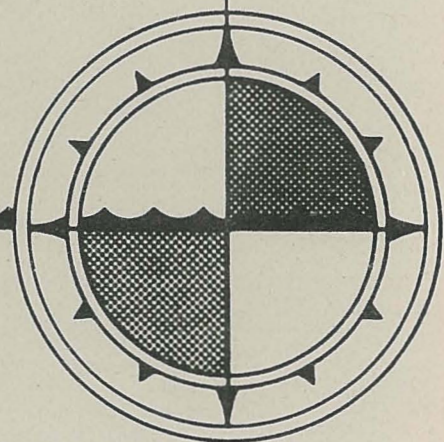


R. D. BELLEGAY

**OCEANOGRAPHIC OBSERVATIONS
AT OCEAN STATION P
23 March - 10 May 1979
VOLUME 99**



**INSTITUTE OF OCEAN SCIENCES
Sidney, B.C.**

R. D. BELLEGAY

Pacific Marine Science Report 81-13

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VOLUME 99

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1981

ABSTRACT

Physical, chemical and biological oceanographic observations are made from the weathership at Ocean Weather Station Papa, and between Esquimalt and Station Papa, on a routine continuing basis. Physical oceanography data only are shown, including surface observations and profiles obtained with bottle casts and conductivity-temperature-pressure instruments.



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INTRODUCTION

Canadian operation of Ocean Weather Station P (Latitude $50^{\circ}00'N$, Longitude $145^{\circ}00'W$) was inaugurated in December 1950. The station is occupied primarily to make meteorological observations of the surface and upper air and to provide an air-sea rescue service. The station is manned by two vessels operated by the Marine Services Branch of the Ministry of Transport. They are the CCGS Vancouver and the CCGS Quadra. Each ship remains on station for a period of six weeks, and is then relieved by the alternate ship, thus maintaining a continuous watch.

Bathythermograph observations have been made at Station P since July 1952. A program of more extensive oceanographic observations commenced in August 1956. This was extended in April 1959 by the addition of a series of oceanographic stations along the route to and from Station P and Swiftsure Bank. These stations are known as Line P stations. The number of stations on Line P has been increased twice and now consists of twelve stations (Fig. 1). Bathythermograph observations and surface salinity sample collections, in addition to being made on Line P oceanographic stations, are also made at odd meridians at $40'$, i.e. $139^{\circ}40'W$, $141^{\circ}40'W$, etc. These stations are known as Line P BT stations. Data observed prior to 1968 have been indexed by Collins et al (1969).

The present record includes STD and surface salinity and temperature data collected from the CCGS Vancouver during the period 23 March to 10 May 1979.

All physical oceanographic data have been stored by the Marine Environmental Data Services Branch (MEDS), Department of Fisheries and Oceans, 240 Sparks Street, 7th Floor West, Ottawa, Ontario, Canada, K1A 0E6. Requests for these data should be directed to MEDS.

Biological and productivity data are published in the Manuscript Report series of the Department of Fisheries and Oceans (DFO), Pacific Biological Station, Nanaimo, British Columbia, Canada. Requests for these data should be directed to DFO.

Marine geochemical data are for the Ocean Chemistry Division, Department of Fisheries and Oceans, Institute of Ocean Sciences, P.O. Box 6000, Sidney, B. C., Canada, V8L 4B2.

PROGRAM OF OBSERVATION FROM CCGS VANCOUVER, 23 March - 10 May 1979 (P-79-3)
(MEDS Ref. No. 15-79-003)

Oceanographic observations were made by the officers and crew of the CCGS Vancouver.

En Route to Station P (Line P)

STD profiles were taken at Line P stations 1 to 12.

Surface salinity and nutrient samples were taken from the seawater loop or bucket.

The surface temperature recorder (engine intake) and thermosalinograph (seawater loop) were run continuously.

Mechanical BT's or XBT's were taken at all BT positions.

On Station P

The oceanographic program was carried out as follows:

Physical Oceanography

- 1) Forty-four STD profiles were taken at Station P.
Fifteen STD profiles were taken at MILE GRID positions.
- 2) Daily salinity samples were taken from the seawater loop.
- 3) BT's or XBT's were taken every three hours to coincide with meteorological observations, encoded and transmitted according to the IGOSS format.

Marine Geochemistry

Samples for air CO₂, PCO₂, POC, alkalinity, nutrients and tritium obtained during this cruise are for the Ocean Chemistry Division and are not included in this data report.

Biological Oceanography

Samples from 150 metre vertical plankton hauls (Station P) and nutrients (Line P) obtained during this cruise are for the Pacific Biological Station and are not included in this data report.

En Route from Station P (Line P)

STD profiles were taken at Line P stations 12 to 1.

Surface salinity and nutrient samples were taken from the seawater loop or bucket.

The surface temperature recorder (engine intake) and thermosalinograph (seawater loop) were run continuously.

Mechanical BT's or XBT's were taken at all BT positions.

Observations for Other Agencies

- 1) Marine mammal observations were made by the ship's officers for Mr. M. Bigg, Department of Fisheries and Oceans, Pacific Biological Station, Nanaimo, B.C., Canada.
- 2) Bird observations were made by the ship's officers for Dr. M. Myres, University of Alberta, Calgary, Alberta, Canada and Mr. J. Guiget, Curator of Birds and Mammals, Provincial Museum, Department of Provincial Secretary and Travel Industry, Victoria, British Columbia, Canada.

OBSERVATIONAL PROCEDURES

The daily surface water temperatures were measured from a bucket sample using a deck thermometer of $\pm 0.1^{\circ}\text{C}$ accuracy. The daily surface salinity samples were obtained from the seawater loop. When the seawater loop was not operational these samples were obtained with a bucket, and are indicated with a '*' in this data record.

Salinity determinations were made ashore with a Guildline Autosol salinometer. Accuracy using duplicated determinations is estimated to be $\pm 0.003^{\circ}/\text{oo}$.

Line P engine intake continuous temperature on both ships was recorded by a Honeywell Electronik 15 Recorder. The temperature probe is at a depth of approximately 3 metres below the sea surface and the instrument accuracy is believed to be $\pm 0.1^{\circ}\text{C}$.

Each ship is equipped with a Plessey Model 6600-T thermosalinograph which is used, on Line P, for continuous recording of surface temperatures and salinities from the ship's seawater loop. The temperature probe is mounted at the seawater loop intake (approximately 3 metres below the surface) and the salinity probe and recorder are situated in the dry lab. The accuracy of this instrument is believed to be $\pm 0.1^{\circ}\text{C}$ for temperature and $\pm 0.1^{\circ}/\text{oo}$ for salinity.

STD profiles were taken with a Guildline Model 8700 STD system.

COMPUTATIONS

Analog traces from the salinity-temperature-pressure instrument have been digitized using a Hewlett-Packard (HP) 9821A calculator and an HP 9864A digitizer, then replotted by an HP 9862A plotter. Digitization was continued until original and computer plotted traces were coincident.

The HP 9821A was then connected to an HP 2116 minicomputer and the digitized data transferred to 9-track tape. Using a UNIVAC 1106 computer the data was listed and obvious spikes removed, then a correction was applied.

Generally the correction is determined by comparison with hydrographic casts of the same cruise. As no hydrographic casts were taken, the STD data were compared with the last 3 hydrographic casts from cruise 79-002 and the first 3 hydrographic casts from cruise 79-004 (previous to and following this cruise).

STD consecutive numbers 1-32 were compared with cruise 79-002. Corrections applied to these STD's to produce data in this report are:

PRESS	TEMP	SAL
0db	+0.24°C	-0.15 ⁰ /oo
1500db	+0.21°C	-0.12 ⁰ /oo

STD consecutive numbers 33-83 were compared with cruise 79-004. Corrections applied to these STD's to produce data in this report are:

PRESS	TEMP	SAL
0db	+0.25°C	-0.26 ⁰ /oo
1500db	+0.21°C	-0.20 ⁰ /oo

Temperature and salinity values were listed at standard pressures and plotted using a Houston Complot DP8S Plotter.

Data values which we suspect but which we have included in this data record are indicated with a plus. These data have been removed from magnetic tape records.

The headings for the data listings are explained as follows:

PRESS	is pressure (decibars)
TEMP	is temperature (degrees Celsius)
SAL	is salinity (parts per thousand)
DEPTH	is reported in metres
SIGMA-T	is specific gravity anomaly
SVA	is specific volume anomaly
THETA	is potential temperature (degrees Celsius)

SVA (THETA) is potential specific volume anomaly
 DELTA D is geopotential anomaly (J/kg)
 POT EN is potential energy in units of 10^8 ergs/cm²
 SOUND is the velocity of sound in metres per second

Data were processed for publication by Messrs. C. de Jong, B. Minkley, and J. Linguanti.

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LOG OF HYDROGRAPHIC AND STD OBSERVATIONS

Consec #	Stations	Date (Z)	Time (Z)	STD (m)	Hydrocasts (m)	Comments
001	1	23/03/79	2330	100		} Line P
002	2	24/03/79	0101	100		
003	3	24/03/79	0309	1200		
004	4	24/03/79	0642	1350		
005	5	24/03/79	0955	1360		
006	6	24/03/79	1615	1340		
007	7	24/03/79	2225	1350		
008	8	25/03/79	0425	1360		
009	9	25/03/79	1055	1390		
010	10	25/03/79	1745	1360		
011	11	26/03/79	0212	1300		
012	12	26/03/79	0900	1370		
013	P	26/03/79	2100	1300		
014	P	27/03/79	1710	1370	} MILE grid	
015	P	27/03/79	1749	300		
016	E3	27/03/79	1932	300		
017	E4	27/03/79	2105	300		
018	C1	27/03/79	2320	300		
019	W4	28/03/79	0112	300		
020	W3	28/03/79	0315	300		
021	P	28/03/79	1710	1400		
022	P	29/03/79	1725	1400		
023	P	30/03/79	1710	1400		
024	P	31/03/79	1710	1400		
025	P	01/04/79	1710	1400		
026	P	02/04/79	1710	1400		
027	P	03/04/79	1710	1400		
028	P	04/04/79	1711	1400		
029	P	05/04/79	1710	1400		
030	P	06/04/79	1720	1400		
031	P	07/04/79	1710	1400		
032	P	08/04/79	1718	1400		
033	P	09/04/79	1720	1400		
034	P	10/04/79	1710	1350	} MILE grid	
035	P	10/04/79	1740	300		
036	E3	10/04/79	1935	300		
037	E4	10/04/79	2125	300		
038	C1	10/04/79	2325	300		
039	W4	11/04/79	0115	300		
040	W3	11/04/79	0255	300		
041	P	11/04/79	1710	1400		
042	P	12/04/79	1710	1400		
043	P	13/04/79	1710	1400		
044	P	14/04/79	1710	1400		
045	P	15/04/79	1710	1350		
046	P	16/04/79	1710	1400		
047	P	17/04/79	1710	1350		
048	P	18/04/79	1710	1400		
049	P	19/04/79	1710	1200		
050	P	20/04/79	1720	1400		

		<u>AND</u> <u>OBSERVATIONS</u> (continued)				
Consec #	Stations	Date (Z)	Time (Z)	STD (m)	Hydrocast (m)	Comments
051	P	21/04/79	1710	1400		
052	P	22/04/79	1715	1400		
053		23/04/79	1710	1350		
054	P	24/04/79	1710	1400		
055	P	25/04/79	1710	1400		
056	P	26/04/79	1710	1400		
057	P	27/04/79	1710	1400		
058	P	28/04/79	1710	1400		
059	P	29/04/79	1710	1400		
060	P	30/04/79	1710	1400		
061	P	30/04/79	1730	300		
062	E3	30/04/79	1900	300		
063	E4	30/04/79	2015	300		MILE
064	C1	30/04/79	2130	300		grid
065	W4	30/04/79	2350	300		
066	W3	01/05/79	0140			
067	P	01/05/79	1710	1400		
068	P	02/05/79	1710	1400		
069	P	03/05/79	1710	1400		
070	P	04/05/79	1710	1400		
071	P	05/05/79	1710	1400		
072	12	06/05/79	2110	1400		
073	11	07/05/79	0250	1400		
074	10	07/05/79	0915	1350		
075	9	07/05/79	1550	1350		
076	8	07/05/79	2230	1300		
077	7	08/05/79	0500	1400		
078	6	08/05/79	1212	1200		Line P
079	5	08/05/79	1900	1200		
080	4	08/05/79	2300	1300		
081	3	09/05/79	0235	1200		
082	2	09/05/79	0515	100		
083	1	09/05/79	0700	100		

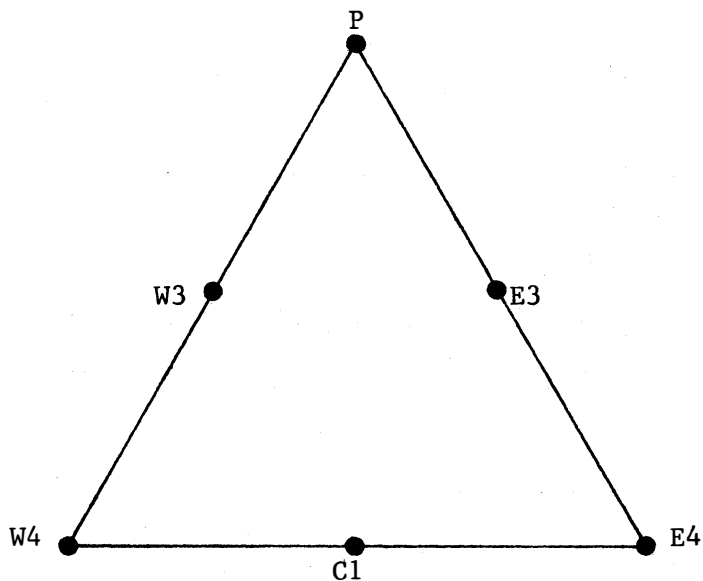
MILE GRID

(MIXED LAYER EXPERIMENT)

During the MILE experiment in the summer of 1977 a 20-mile triangular grid was initiated with STD stations to 300 metres.

During this cruise the grid survey was completed three times.

- 1st - STD consec. #015 - #020
- 2nd - STD consec. #035 - #040
- 3rd - STD consec. #061 - #066



Station ID and positions are as follows:

- P = 50°00'N, 145°00'W
- E3 = 49°52'N, 144°52'W
- E4 = 49°43'N, 144°44'W
- C1 = 49°42'N, 145°00'W
- W4 = 49°43'N, 145°15'W
- W3 = 49°52'N, 145°07'W

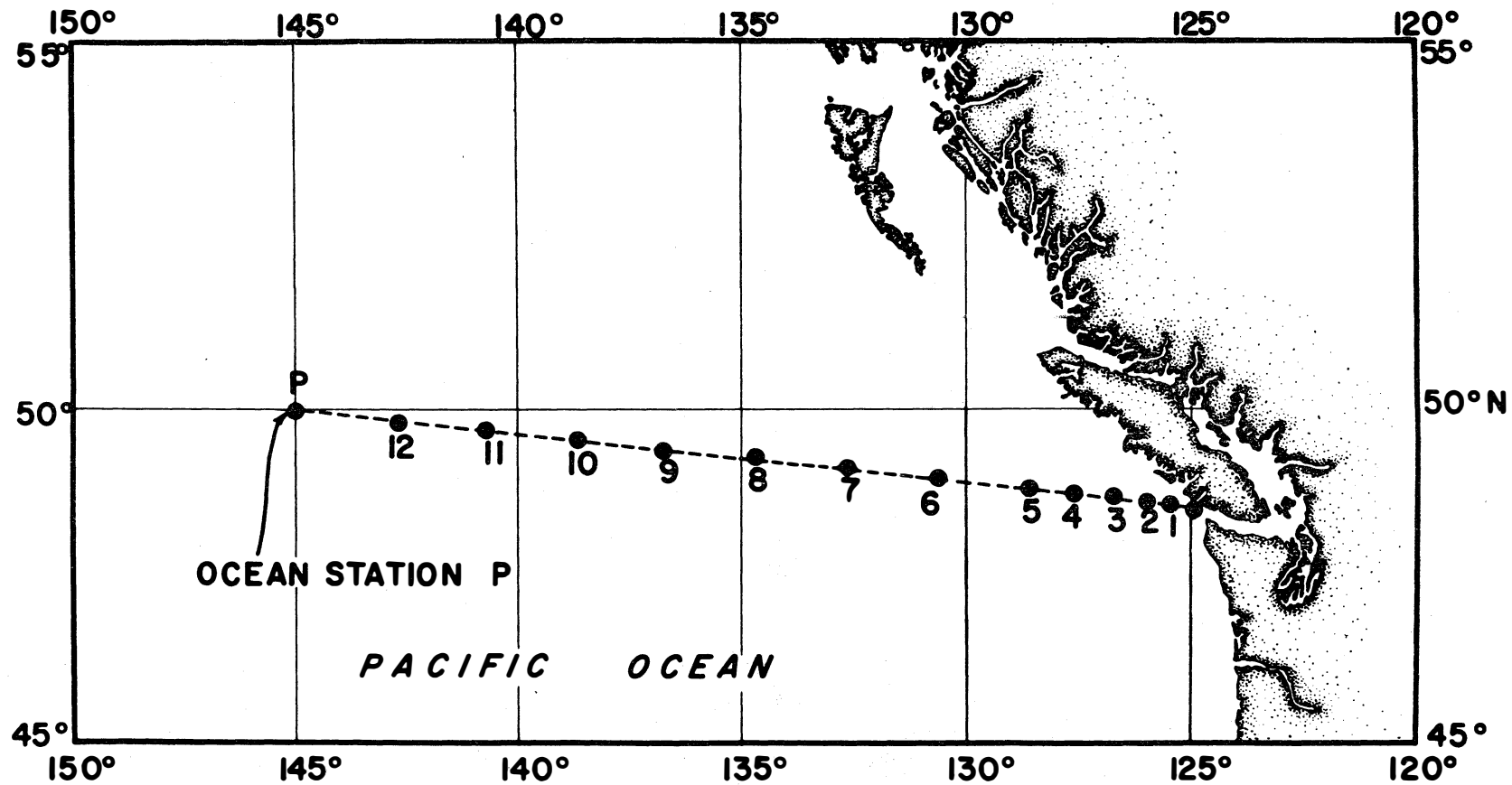
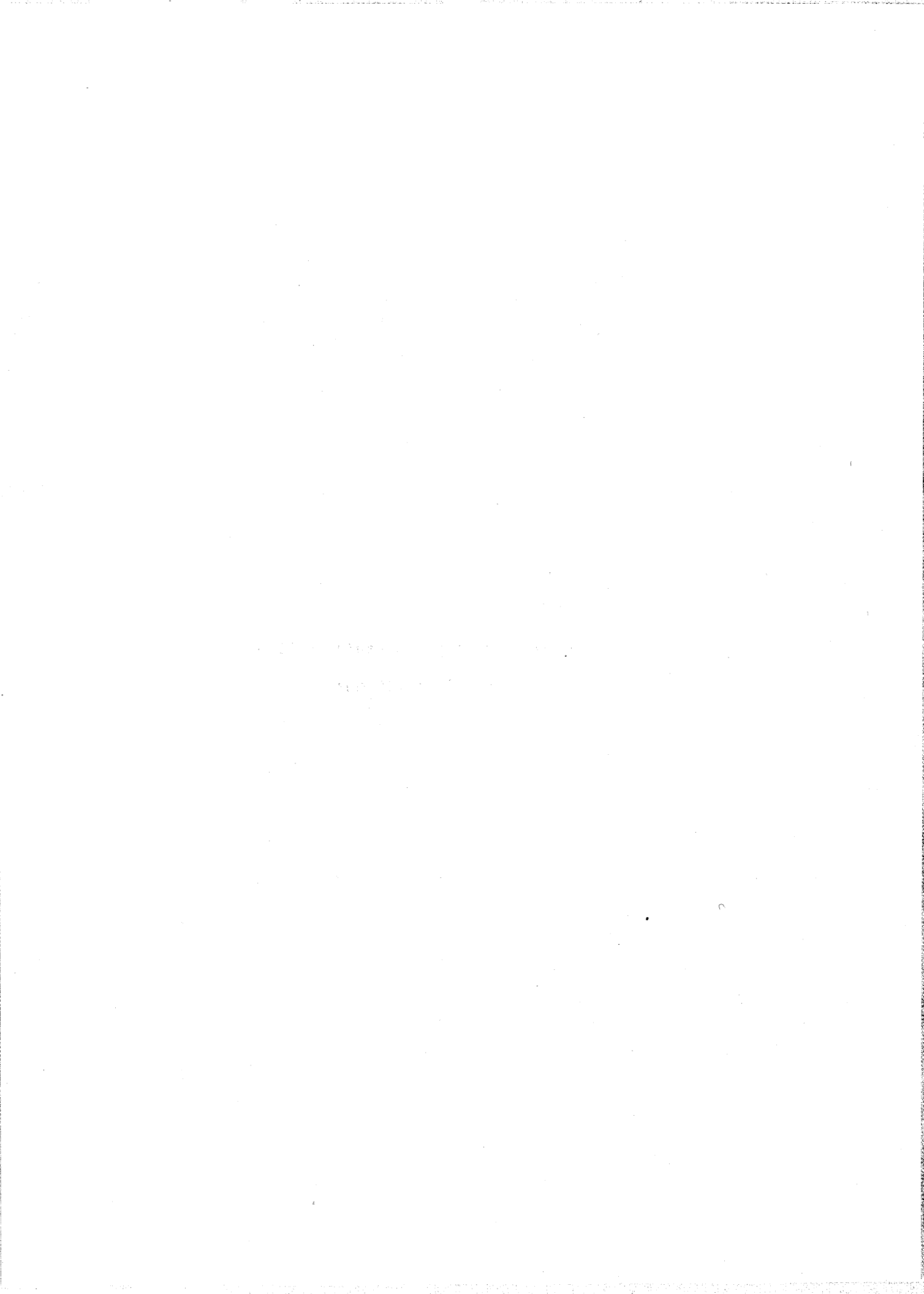


Fig. 1 Chart showing Line P station positions.



Oceanographic Data Obtained on Cruise P-79-3

(MEDS Reference No. 15-79-003)



Results of STD Observations

(P-79-3)

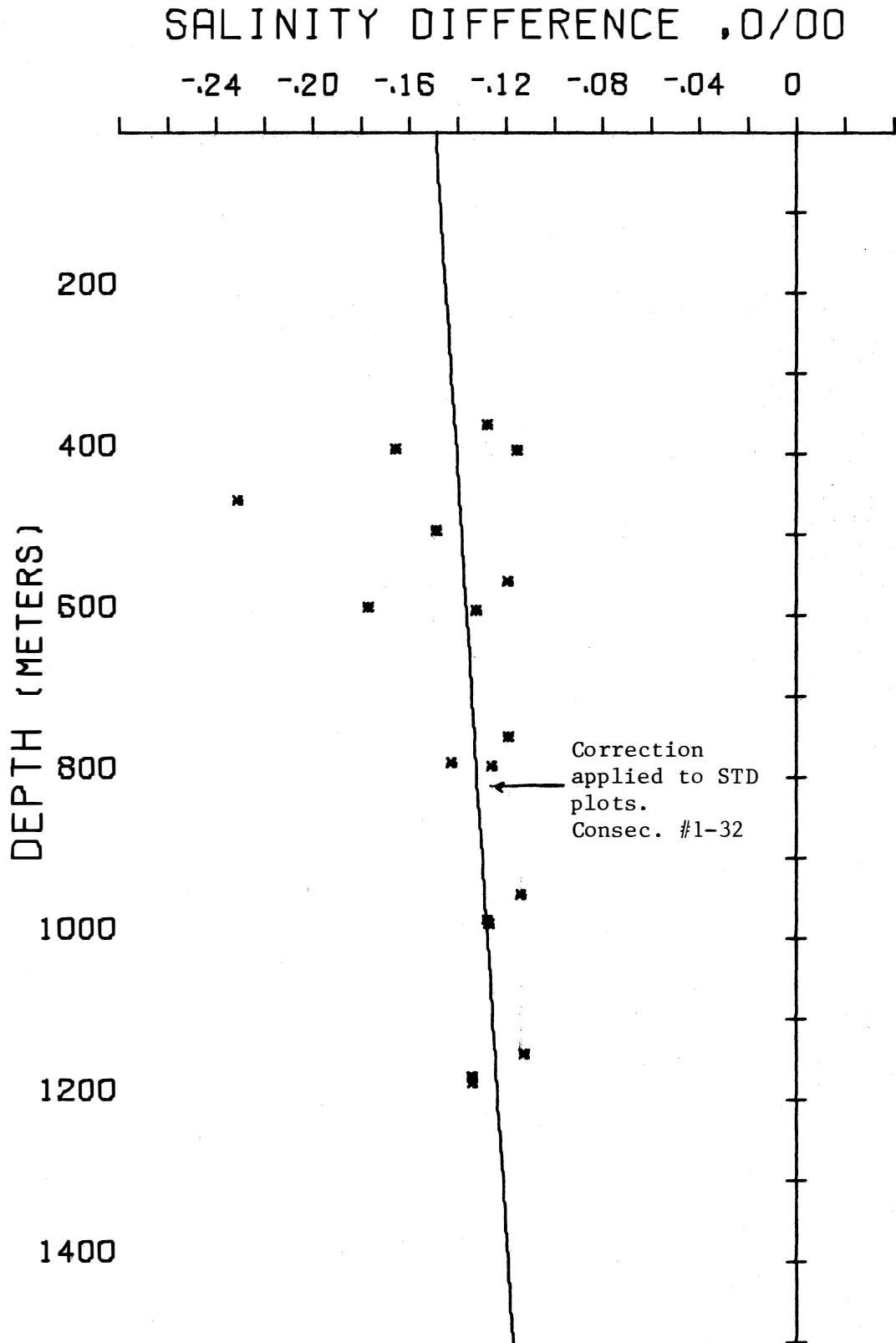


Figure 2. Salinity difference between hydro data and STD. P-79-3

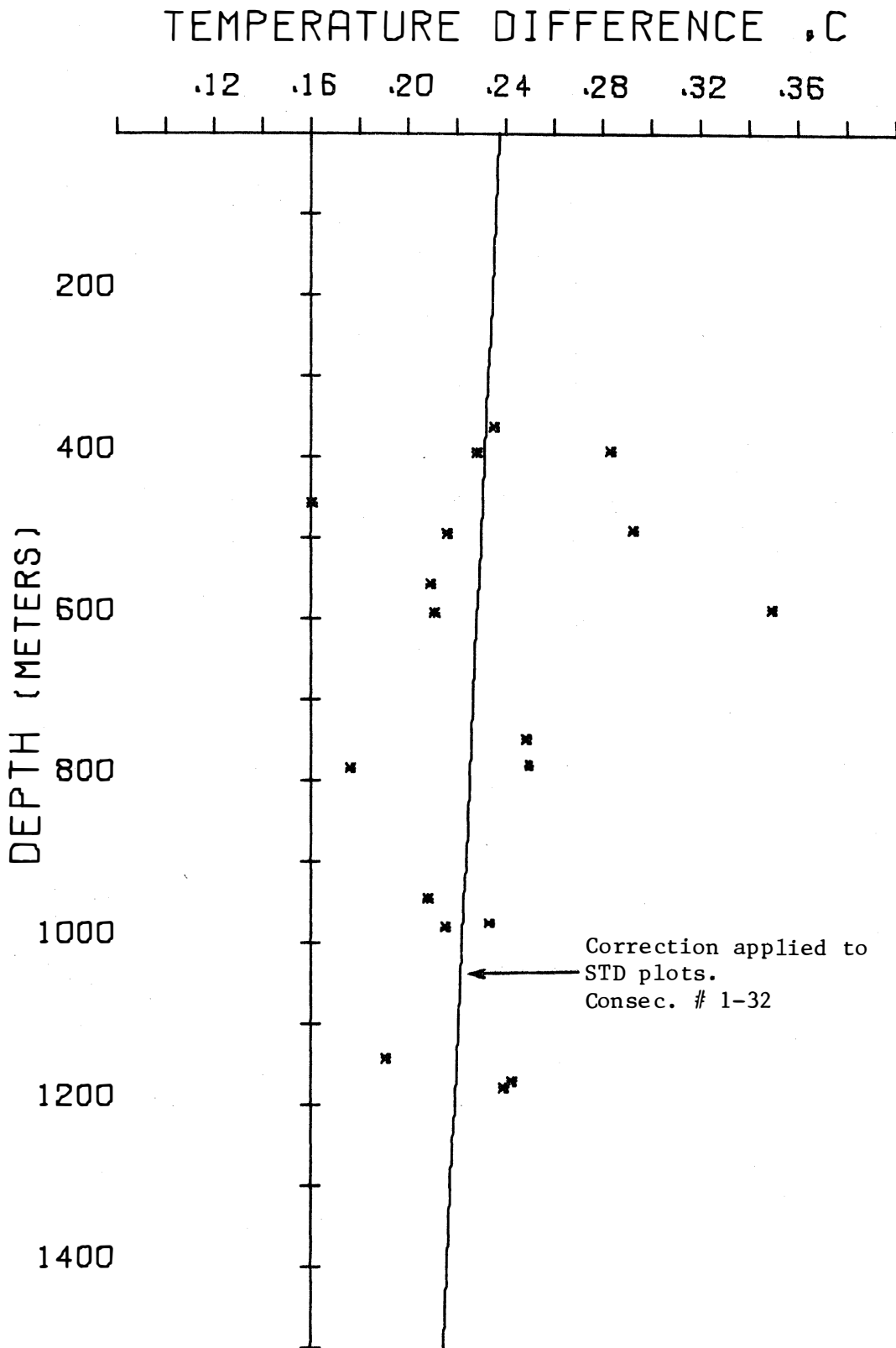


Figure 3. Temperature difference between hydro data and STD.
P-79-3

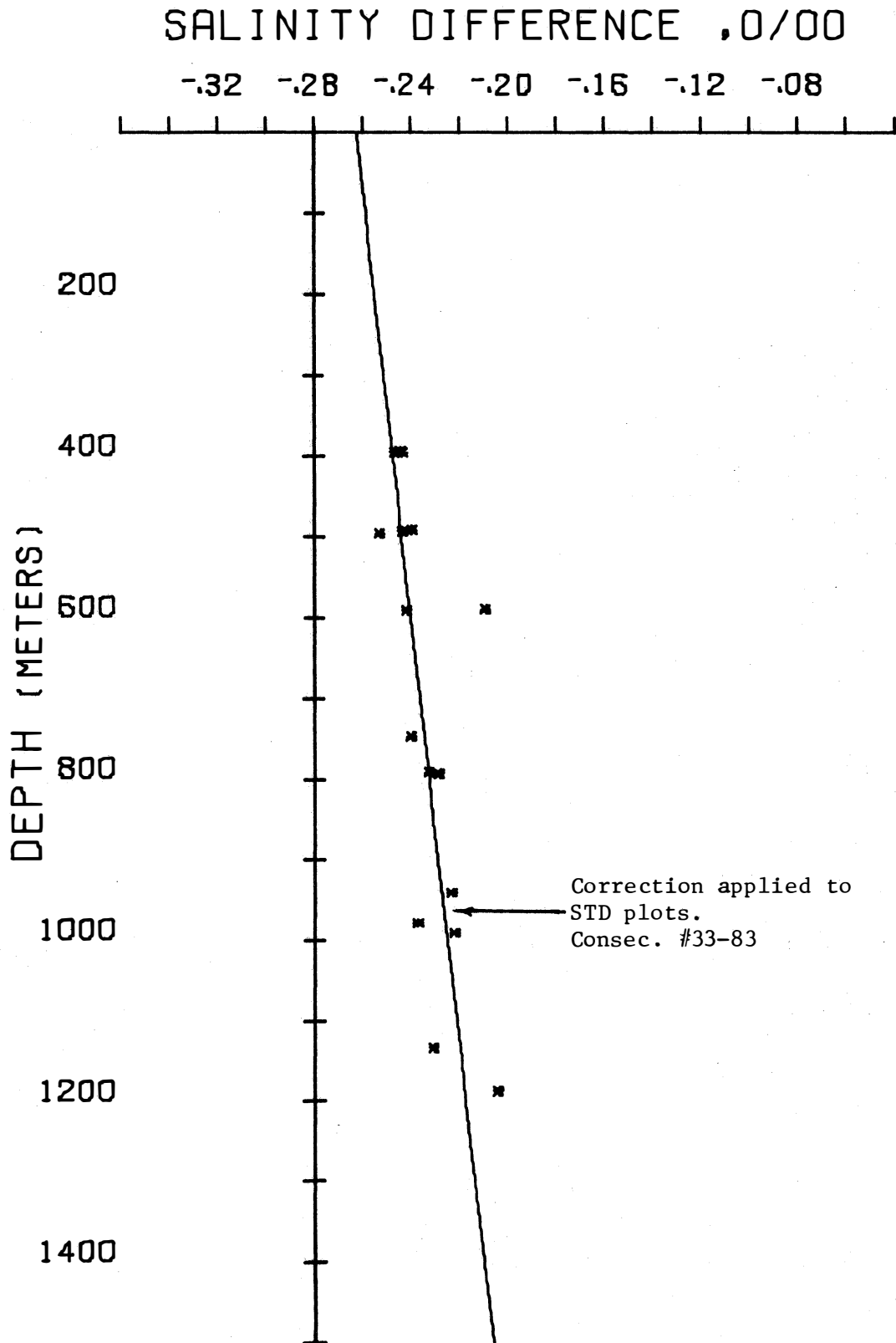


Figure 4. Salinity difference between hydro data and STD.
p-79-3

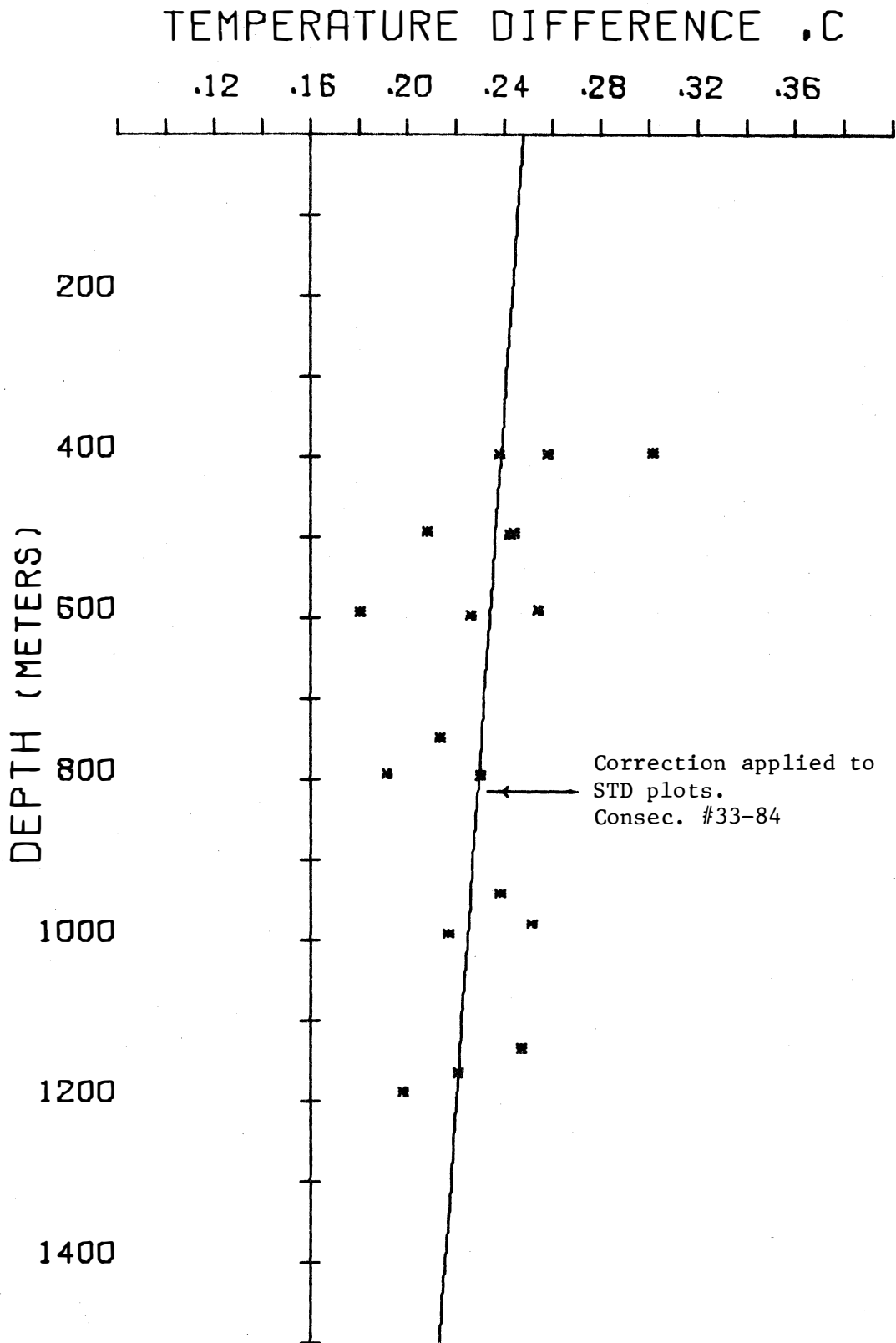
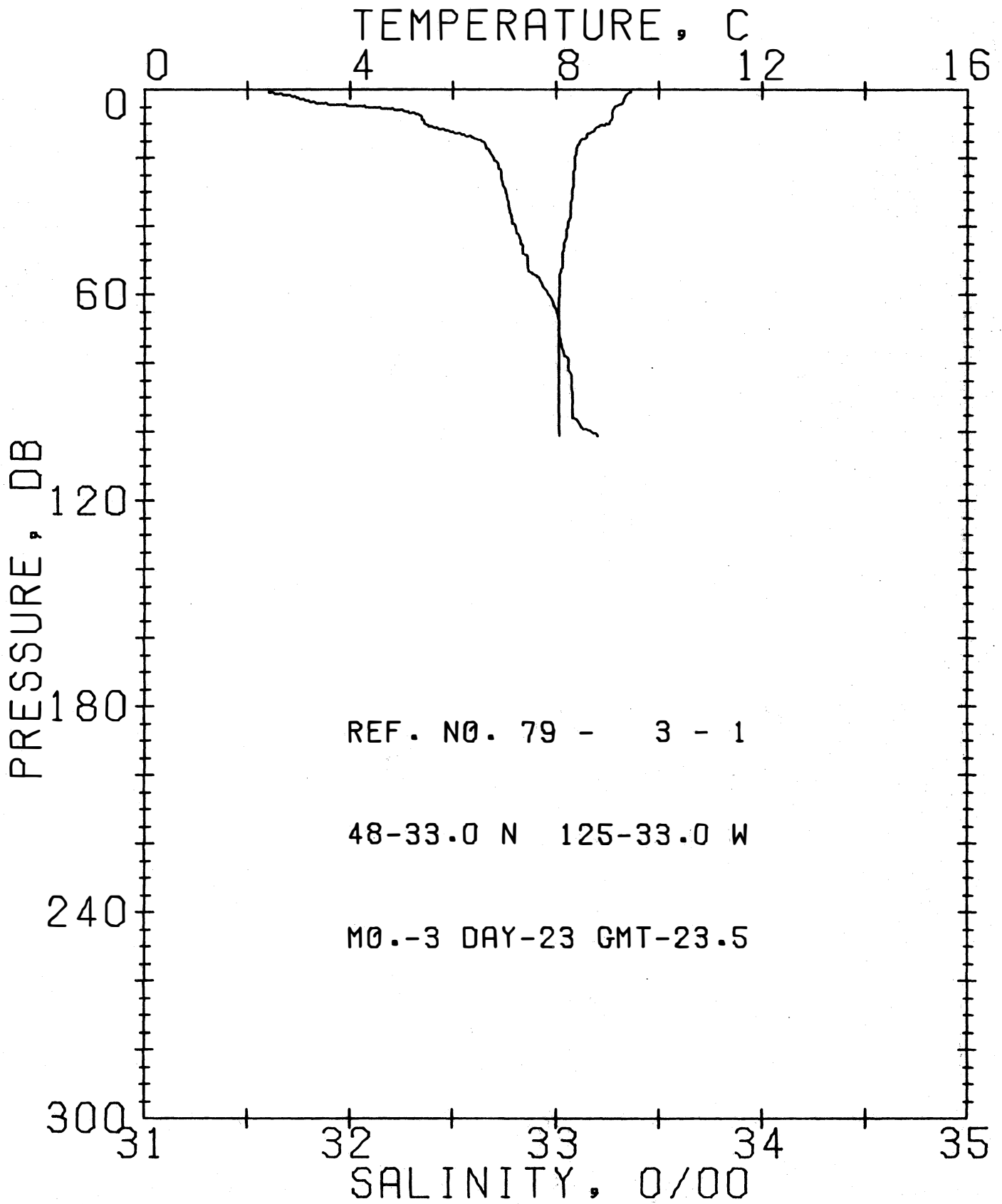


Figure 5. Temperature difference between hydro data and STD.
P-79-3



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 1

DATE 23/ 3/79

POSITION 48-33.0N, 125-33.0W

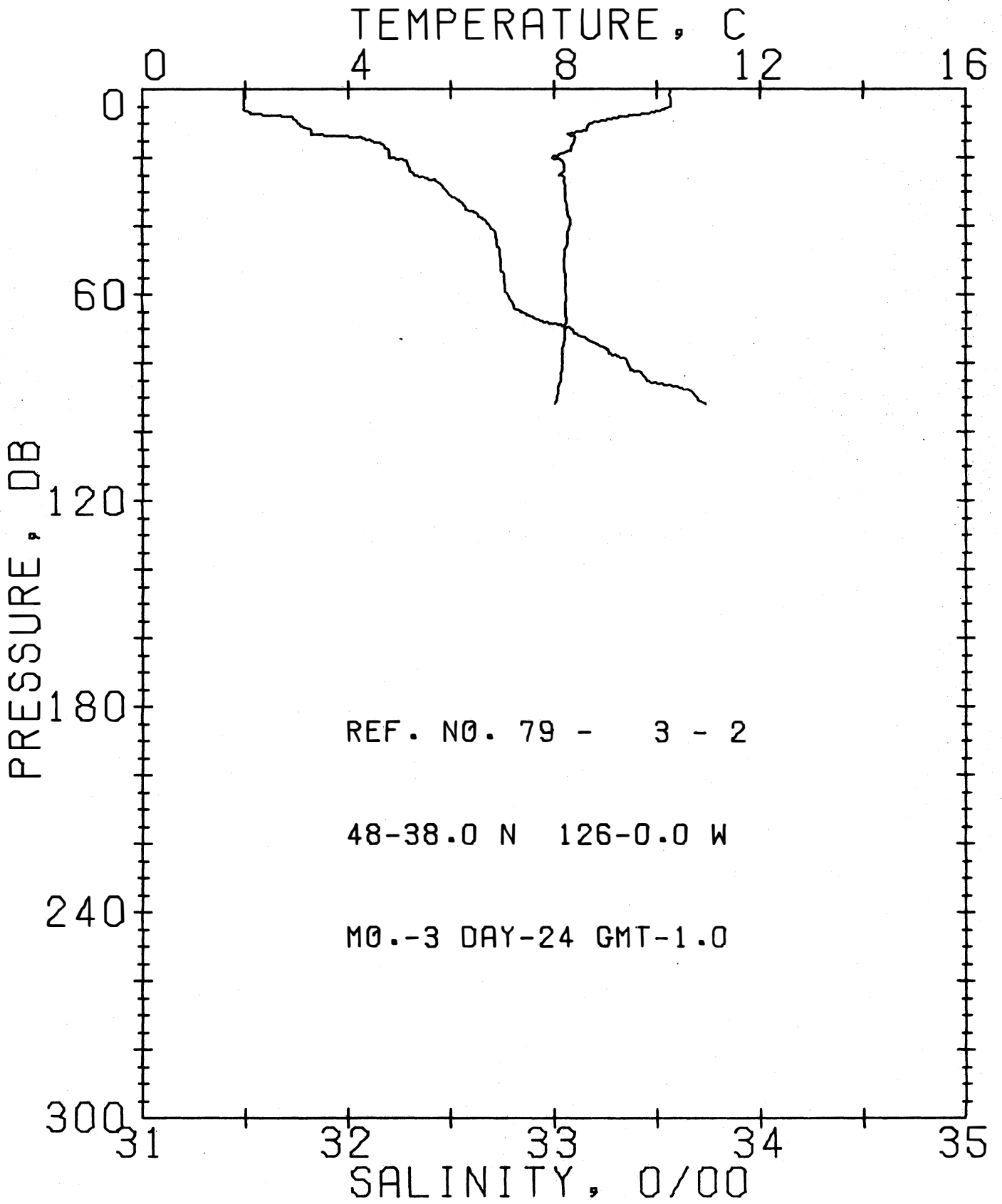
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STATION 1

RESULTS OF STP CAST 68 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	9.43	31.61	0	24.43	351.4	.00	.00	1484.
10	9.05	32.36	10	25.07	290.2	.32	.02	1484.
20	8.38	32.69	20	25.43	256.1	.58	.06	1482.
30	8.31	32.75	30	25.49	250.9	.84	.12	1482.
40	8.23	32.80	40	25.54	246.2	1.09	.21	1482.
50	8.13	32.86	50	25.60	240.5	1.33	.32	1481.
60	8.07	32.96	60	25.69	232.3	1.57	.45	1482.
70	8.06	33.01	70	25.73	228.6	1.80	.61	1482.
80	8.06	33.06	80	25.77	225.1	2.02	.78	1482.
90	8.06	33.08	89	25.78	223.9	2.25	.97	1482.
100	8.06	33.17	99	25.85	217.2	2.47	1.19	1482.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 2

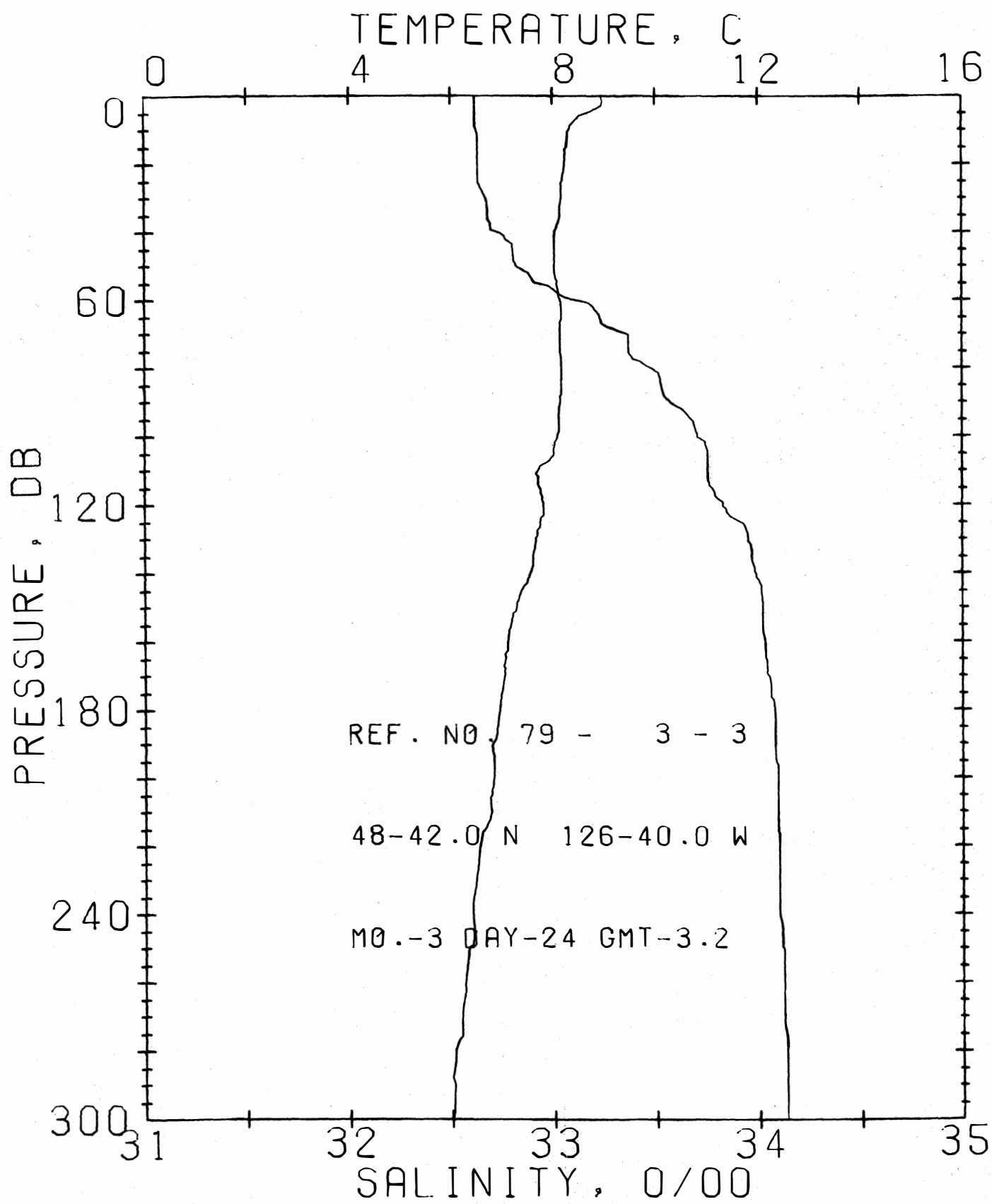
DATE 24/ 3/79

POSITION 48-38.0N, 126- .0W GMT 1.0 STATION 2

RESULTS OF STP CAST 69 POINTS TAKEN FROM ANALOG TRACE

GUIDELINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	10.28	31.49	0	24.19	373.4	.00	.00	1487.
10	8.71	31.75	10	24.65	330.6	.36	.02	1482.
20	7.96	32.20	20	25.11	286.7	.67	.06	1479.
30	8.21	32.47	30	25.29	269.9	.95	.14	1481.
40	8.31	32.68	40	25.43	256.1	1.21	.23	1482.
50	8.19	32.74	50	25.49	250.6	1.46	.34	1482.
60	8.23	32.77	60	25.51	248.6	1.71	.48	1482.
70	8.21	33.08	70	25.76	225.6	1.95	.64	1482.
80	8.15	33.36	80	25.98	204.3	2.17	.81	1483.
90	8.06	33.69	89	26.26	178.7	2.36	.98	1483.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 3

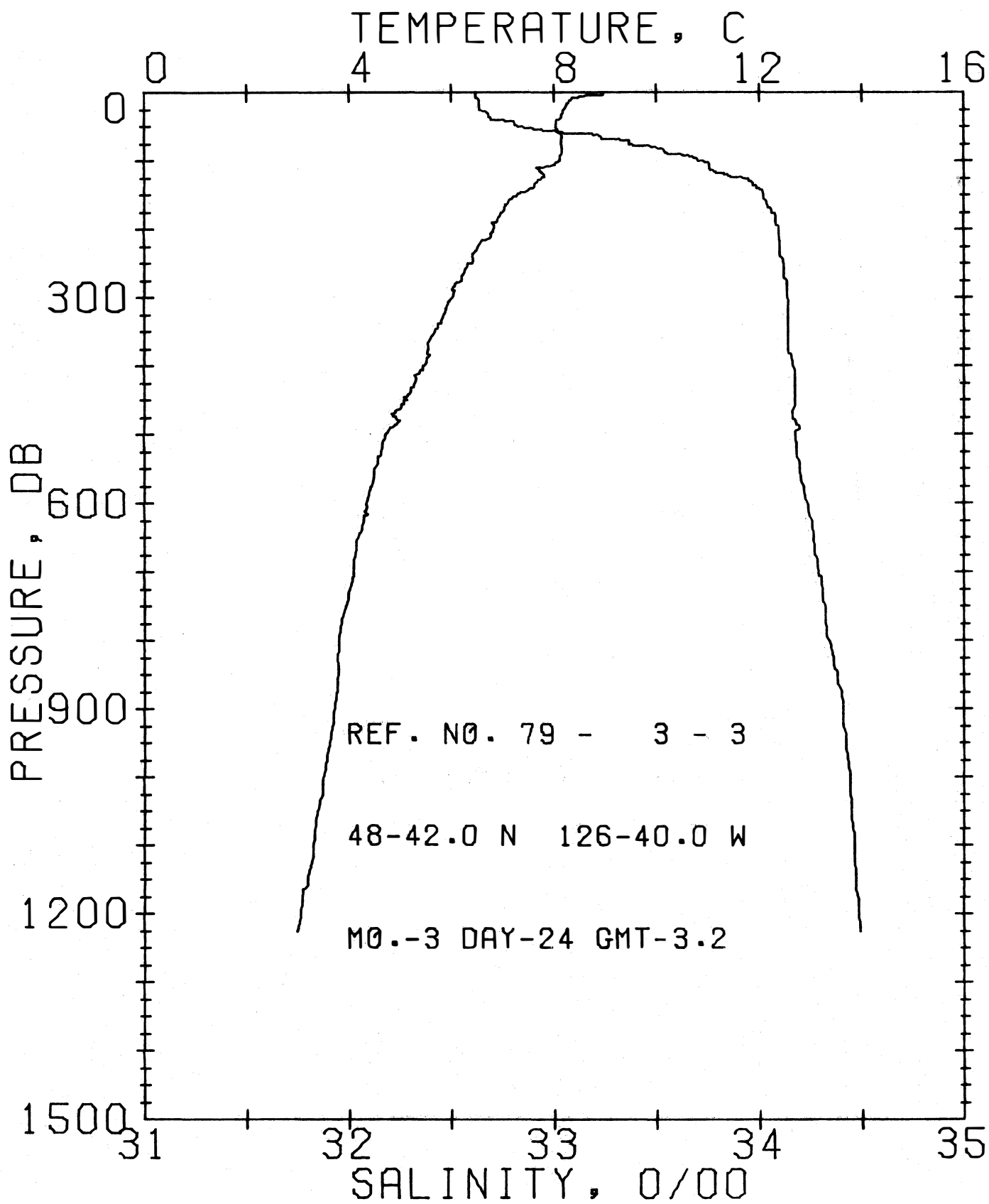
DATE 24/ 3/79

POSITION 48-42.0N, 126-40.0W GMT 3.2 STATION 3

RESULTS OF STP CAST 167 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	8.95	32.62	0	25.29	269.3	.00	.00	1483.
10	8.32	32.62	10	25.39	259.9	.27	.01	1481.
20	8.22	32.63	20	25.41	258.3	.52	.05	1481.
30	8.15	32.67	30	25.45	254.5	.78	.12	1481.
40	8.03	32.73	40	25.51	248.6	1.03	.21	1481.
50	8.03	32.82	50	25.58	242.0	1.28	.32	1481.
60	8.13	33.10	60	25.79	222.8	1.51	.45	1482.
70	8.13	33.37	70	26.00	202.9	1.73	.59	1482.
80	8.15	33.48	80	26.08	195.2	1.93	.75	1483.
90	8.14	33.57	89	26.15	188.5	2.12	.91	1483.
100	8.08	33.70	99	26.26	178.2	2.30	1.09	1483.
110	7.71	33.75	109	26.36	169.4	2.47	1.27	1482.
120	7.80	33.83	119	26.41	164.9	2.64	1.47	1483.
130	7.66	33.95	129	26.52	154.2	2.80	1.67	1482.
140	7.54	33.99	139	26.57	149.7	2.95	1.88	1482.
150	7.27	34.02	149	26.63	143.9	3.10	2.10	1481.
160	7.09	34.03	159	26.66	140.9	3.24	2.32	1481.
170	7.05	34.05	169	26.69	139.0	3.38	2.56	1481.
180	6.94	34.07	179	26.72	135.8	3.52	2.80	1481.
190	6.80	34.08	189	26.74	133.8	3.65	3.06	1480.
200	6.82	34.09	199	26.75	133.4	3.79	3.32	1480.
210	6.77	34.09	209	26.76	132.9	3.92	3.60	1480.
220	6.55	34.10	218	26.79	129.4	4.05	3.89	1480.
230	6.47	34.10	228	26.80	128.6	4.18	4.18	1480.
240	6.40	34.10	238	26.81	127.8	4.31	4.49	1479.
250	6.32	34.12	248	26.84	125.4	4.43	4.81	1479.
260	6.25	34.12	258	26.85	124.7	4.56	5.13	1479.
270	6.20	34.12	268	26.85	124.1	4.68	5.47	1479.
280	6.06	34.13	278	26.88	121.7	4.81	5.82	1479.
290	6.06	34.13	288	26.88	121.9	4.93	6.17	1479.
300	5.99	34.13	298	26.89	121.1	5.05	6.53	1479.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 3

DATE 24/ 3/79

POSITION 48-42.0N, 126-40.0W

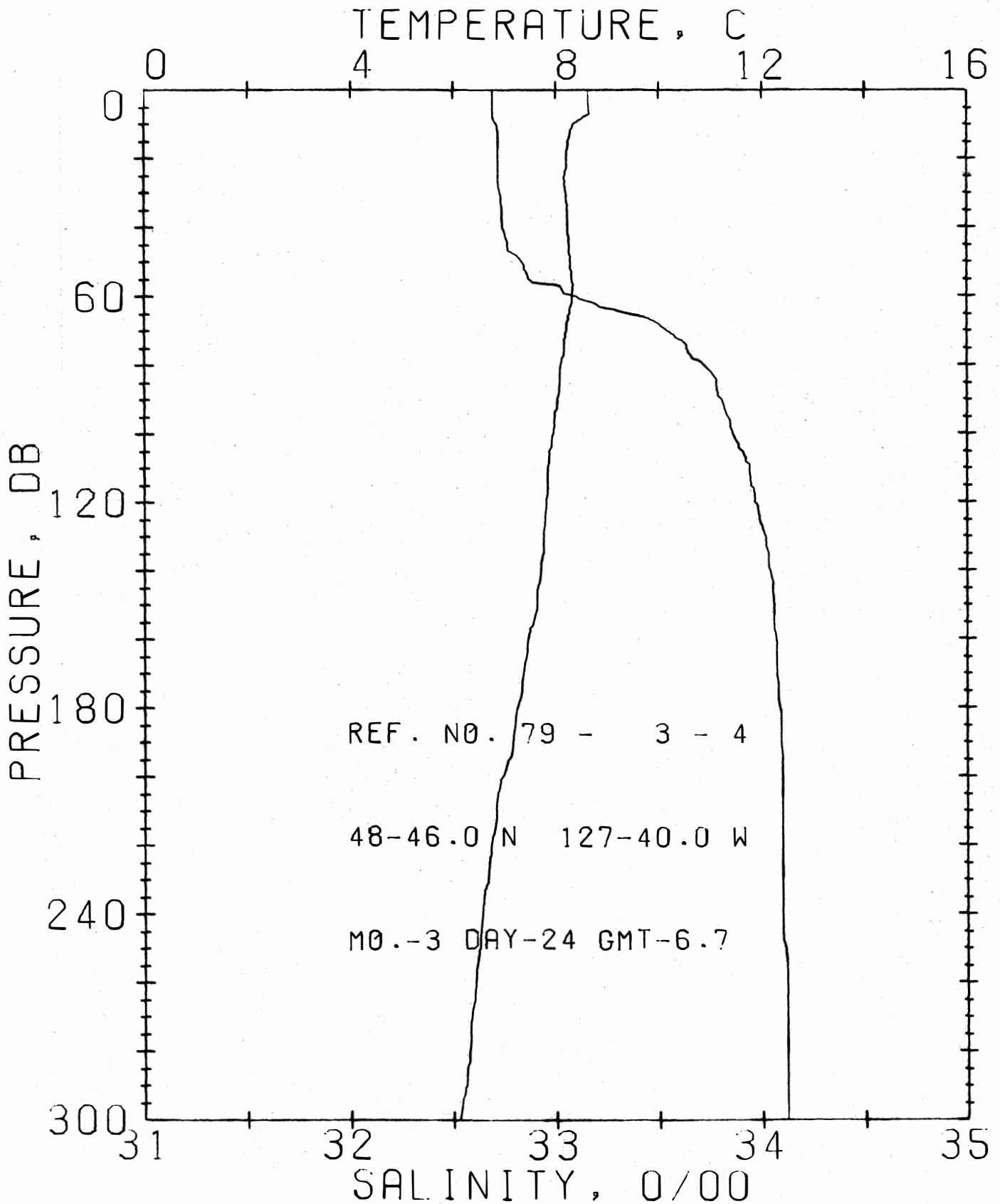
GMT 3.2

STATION 3

RESULTS OF STP CAST 337 POINTS TAKEN FROM ANALOG TRACE

GUIDELINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	8.95	32.62	0	25.29	269.3	.00	.00	1483.
10	8.32	32.62	10	25.39	259.9	.27	.01	1481.
20	8.22	32.63	20	25.41	258.3	.52	.05	1481.
30	8.15	32.67	30	25.45	254.5	.78	.12	1481.
50	8.03	32.82	50	25.58	242.0	1.28	.32	1481.
75	8.14	33.37	75	26.00	203.1	1.83	.67	1483.
100	8.08	33.70	99	26.26	178.2	2.30	1.09	1483.
125	7.74	33.93	124	26.49	156.7	2.72	1.57	1483.
150	7.27	34.02	149	26.63	143.9	3.10	2.10	1481.
175	6.97	34.06	174	26.70	137.3	3.45	2.68	1481.
200	6.82	34.09	199	26.75	133.4	3.79	3.32	1480.
225	6.51	34.10	223	26.80	129.0	4.12	4.04	1480.
250	6.32	34.12	248	26.84	125.4	4.43	4.81	1479.
300	5.99	34.13	298	26.89	121.1	5.05	6.53	1479.
400	5.46	34.16	397	26.98	113.5	6.22	10.70	1478.
500	4.70	34.17	496	27.07	104.8	7.31	15.69	1477.
600	4.33	34.23	595	27.16	97.2	8.32	21.37	1477.
800	3.79	34.34	793	27.31	84.4	10.13	34.24	1478.
1000	3.49	34.44	990	27.41	75.1	11.72	48.81	1480.
1200	3.04	34.48	1188	27.49	68.4	13.16	64.92	1482.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 4

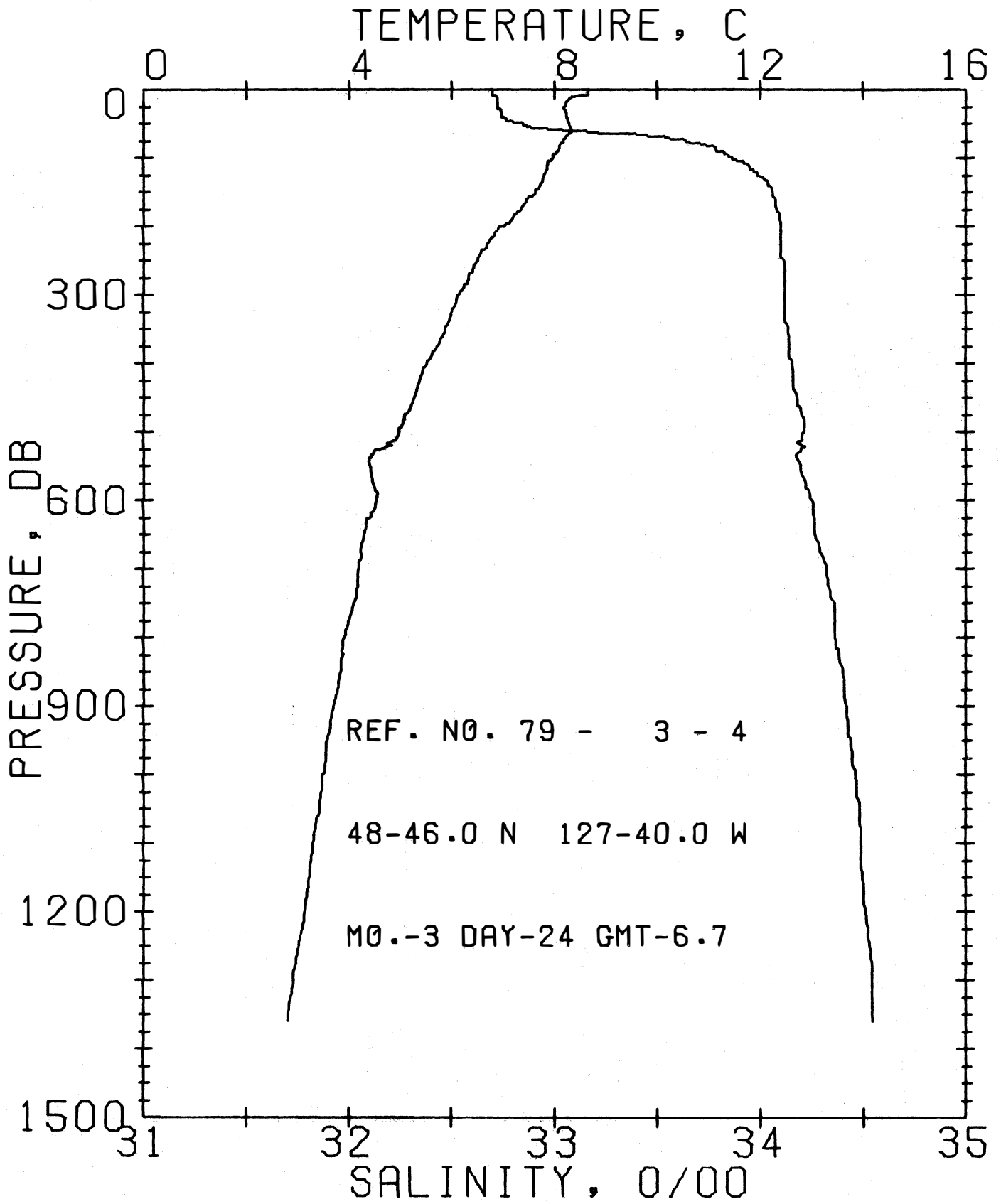
DATE 24/ 3/79

POSITION 48-46.0N, 127-40.0W GMT 6.7 STATION 4

RESULTS OF STP CAST 154 POINTS TAKEN FROM ANALOG TRACE

GUIDELINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	8.65	32.69	0	25.39	259.7	.00	.00	1482.
10	8.35	32.71	10	25.45	254.1	.26	.01	1481.
20	8.21	32.72	20	25.48	251.5	.51	.05	1481.
30	8.20	32.73	30	25.48	251.1	.76	.12	1481.
40	8.23	32.74	40	25.49	250.6	1.01	.21	1482.
50	8.29	32.84	50	25.56	244.7	1.26	.32	1482.
60	8.33	33.10	60	25.76	225.6	1.50	.45	1483.
70	8.20	33.54	70	26.12	191.3	1.71	.59	1483.
80	8.10	33.72	80	26.28	176.6	1.89	.73	1483.
90	8.04	33.81	89	26.36	169.3	2.06	.88	1483.
100	7.96	33.86	99	26.41	164.6	2.23	1.04	1483.
110	7.85	33.94	109	26.49	157.3	2.39	1.21	1483.
120	7.82	33.97	119	26.51	154.8	2.55	1.40	1483.
130	7.75	34.02	129	26.56	150.3	2.70	1.59	1483.
140	7.71	34.04	139	26.58	148.4	2.85	1.80	1483.
150	7.62	34.06	149	26.61	145.8	3.00	2.01	1483.
160	7.46	34.07	159	26.64	143.2	3.14	2.24	1482.
170	7.35	34.07	169	26.66	141.6	3.28	2.48	1482.
180	7.24	34.09	179	26.69	139.1	3.42	2.73	1482.
190	7.15	34.09	189	26.70	137.7	3.56	2.99	1482.
200	6.96	34.10	199	26.74	134.6	3.70	3.26	1481.
210	6.82	34.10	209	26.76	132.9	3.83	3.54	1481.
220	6.73	34.10	218	26.77	131.8	3.96	3.83	1480.
230	6.67	34.10	228	26.78	131.2	4.10	4.13	1480.
240	6.55	34.10	238	26.79	129.7	4.23	4.45	1480.
250	6.50	34.11	248	26.81	128.5	4.36	4.77	1480.
260	6.42	34.12	258	26.83	126.8	4.48	5.10	1480.
270	6.35	34.12	268	26.84	126.0	4.61	5.44	1480.
280	6.29	34.12	278	26.84	125.4	4.74	5.80	1480.
290	6.23	34.12	288	26.85	124.8	4.86	6.16	1480.
300	6.12	34.12	298	26.86	123.5	4.98	6.53	1479.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 4

DATE 24/ 3/79

POSITION 48-46.0N, 127-40.0W

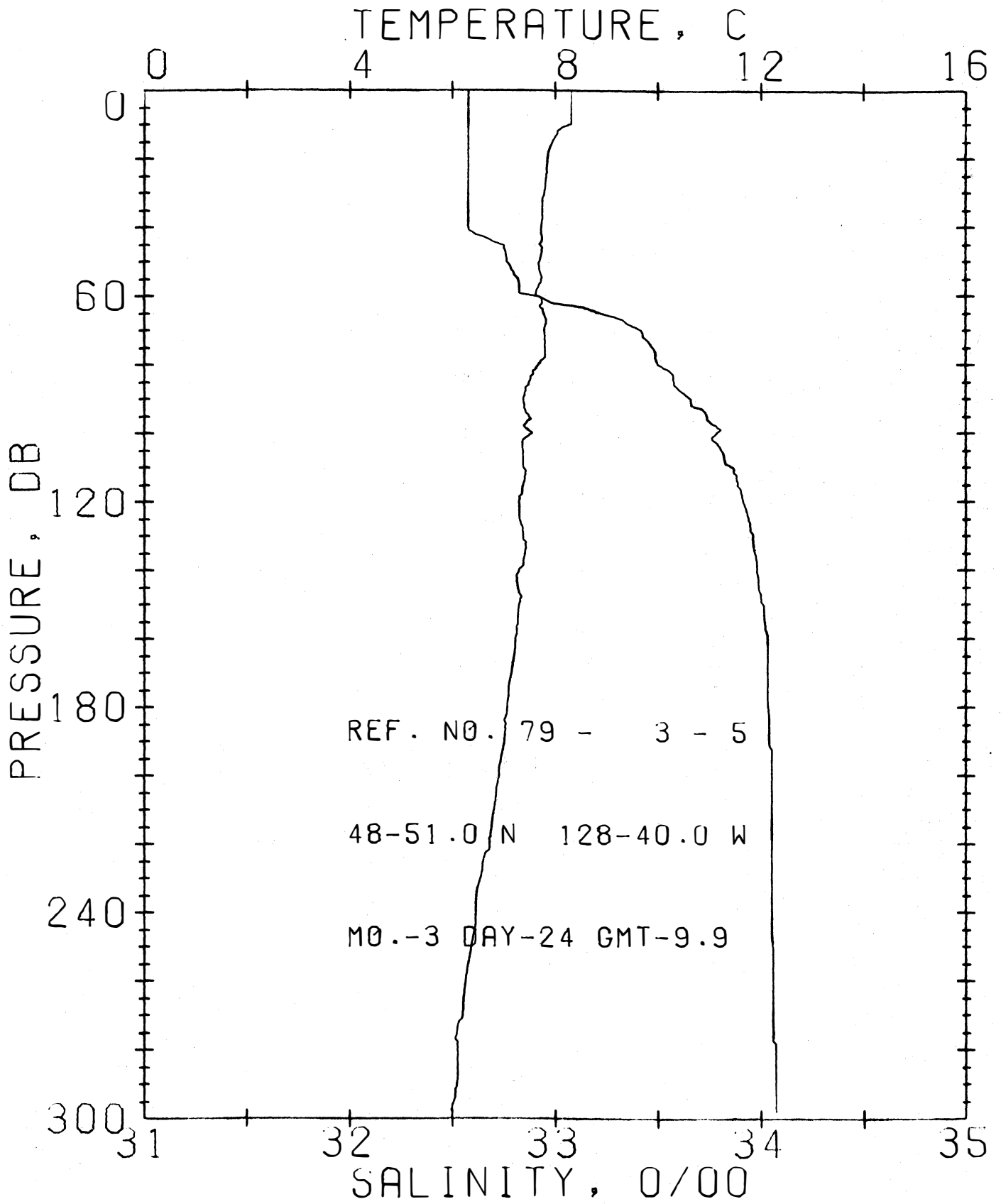
GMT 6.7

STATION 4

RESULTS OF STP CAST 311 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	8.65	32.69	0	25.39	259.7	.00	.00	1482.
10	8.35	32.71	10	25.45	254.1	.26	.01	1481.
20	8.21	32.72	20	25.48	251.5	.51	.05	1481.
30	8.20	32.73	30	25.48	251.1	.76	.12	1481.
50	8.29	32.84	50	25.56	244.7	1.26	.32	1482.
75	8.16	33.63	75	26.20	184.1	1.80	.66	1483.
100	7.96	33.86	99	26.41	164.6	2.23	1.04	1483.
125	7.79	33.99	124	26.53	153.0	2.62	1.49	1483.
150	7.62	34.06	149	26.61	145.8	3.00	2.01	1483.
175	7.32	34.08	174	26.67	140.6	3.35	2.61	1482.
200	6.96	34.10	199	26.74	134.6	3.70	3.26	1481.
225	6.69	34.10	223	26.77	131.3	4.03	3.98	1480.
250	6.50	34.11	248	26.81	128.5	4.36	4.77	1480.
300	6.12	34.12	298	26.86	123.5	4.98	6.53	1479.
400	5.49	34.15	397	26.97	114.7	6.18	10.80	1478.
500	4.95	34.21	496	27.08	104.8	7.28	15.83	1478.
600	4.53	34.24	595	27.15	98.3	8.29	21.50	1478.
800	3.90	34.36	793	27.31	84.2	10.10	34.34	1479.
1000	3.48	34.46	990	27.43	73.5	11.67	48.70	1480.
1200	3.13	34.51	1188	27.50	67.6	13.07	64.43	1482.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 5

DATE 24/ 3/79

POSITION 48-51.0N, 128-40.0W

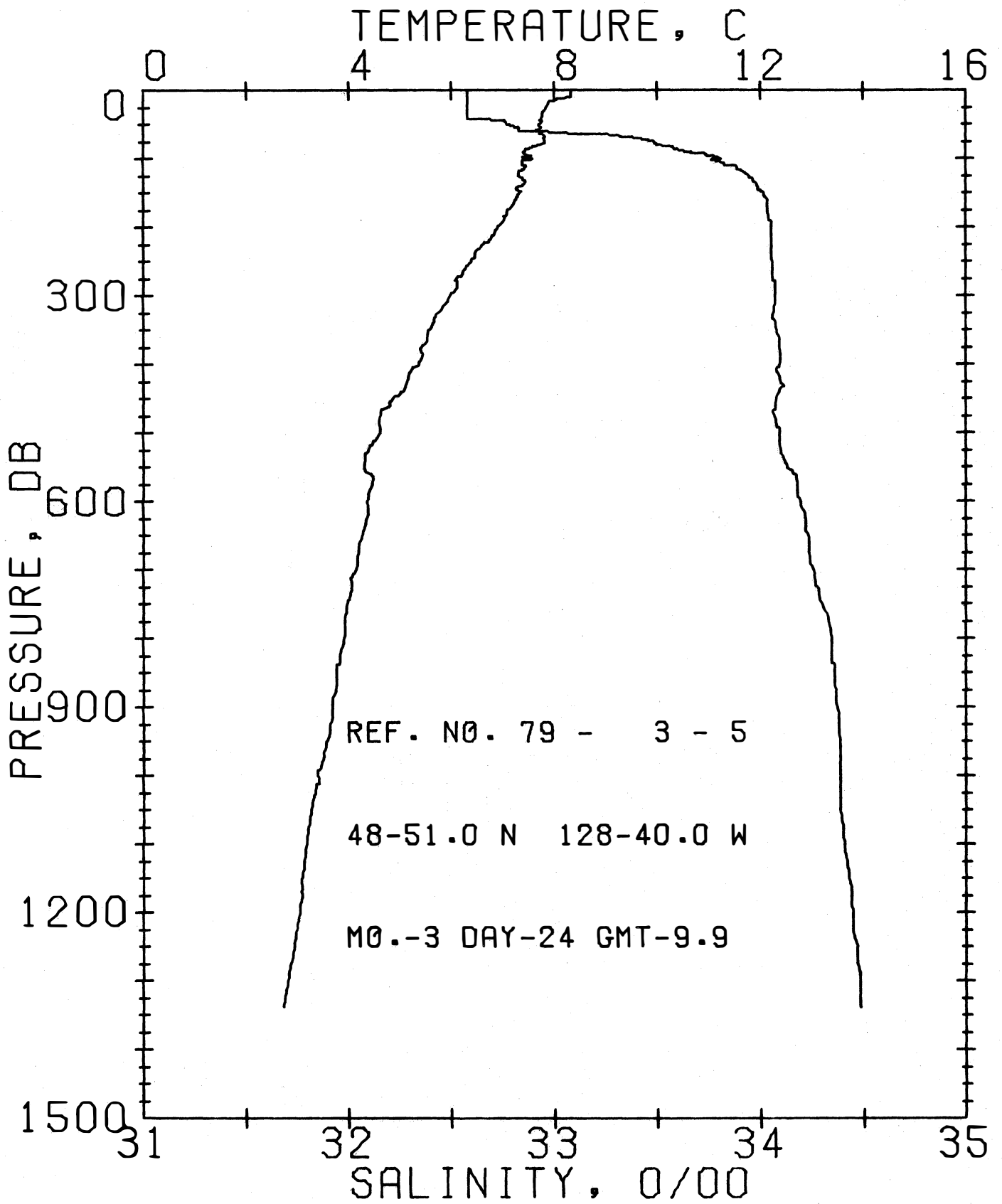
GMT 9.9

STATION 5

RESULTS OF STP CAST 161 POINTS TAKEN FROM ANALOG TRACE

GUIDELINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	8.32	32.58	0	25.35	263.2	.00	.00	1481.
10	8.32	32.58	10	25.35	263.3	.26	.01	1481.
20	7.87	32.58	20	25.42	257.3	.52	.05	1480.
30	7.81	32.58	30	25.43	256.5	.78	.12	1480.
40	7.74	32.58	40	25.44	255.7	1.03	.21	1479.
50	7.70	32.77	50	25.59	241.2	1.28	.32	1480.
60	7.64	32.92	60	25.72	229.4	1.52	.46	1480.
70	7.78	33.42	70	26.09	194.3	1.73	.60	1481.
80	7.67	33.50	80	26.17	187.0	1.92	.74	1481.
90	7.40	33.66	89	26.33	171.5	2.10	.90	1480.
100	7.57	33.79	99	26.41	164.4	2.27	1.06	1481.
110	7.38	33.87	109	26.50	156.0	2.43	1.23	1481.
120	7.31	33.92	119	26.55	151.7	2.58	1.41	1481.
130	7.40	33.96	129	26.57	149.9	2.73	1.60	1481.
140	7.30	33.98	139	26.60	147.2	2.88	1.81	1481.
150	7.30	34.01	149	26.62	145.1	3.03	2.02	1481.
160	7.23	34.03	159	26.65	142.8	3.17	2.25	1481.
170	7.14	34.03	169	26.66	141.7	3.31	2.49	1481.
180	7.07	34.03	179	26.67	140.7	3.46	2.74	1481.
190	7.02	34.04	189	26.68	139.7	3.60	3.01	1481.
200	6.91	34.05	199	26.71	137.6	3.73	3.28	1481.
210	6.82	34.05	209	26.72	136.6	3.87	3.57	1481.
220	6.72	34.05	218	26.73	135.3	4.01	3.87	1480.
230	6.56	34.05	228	26.75	133.4	4.14	4.17	1480.
240	6.46	34.05	238	26.77	132.2	4.27	4.49	1480.
250	6.37	34.06	248	26.79	130.5	4.41	4.82	1479.
260	6.25	34.06	258	26.80	129.1	4.53	5.16	1479.
270	6.19	34.06	268	26.81	128.5	4.66	5.51	1479.
280	6.12	34.07	278	26.83	127.0	4.79	5.86	1479.
290	6.10	34.07	288	26.83	126.8	4.92	6.23	1479.
300	5.96	34.07	298	26.85	125.2	5.04	6.61	1479.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 5

DATE 24/ 3/79

POSITION 48-51.0N, 128-40.0W

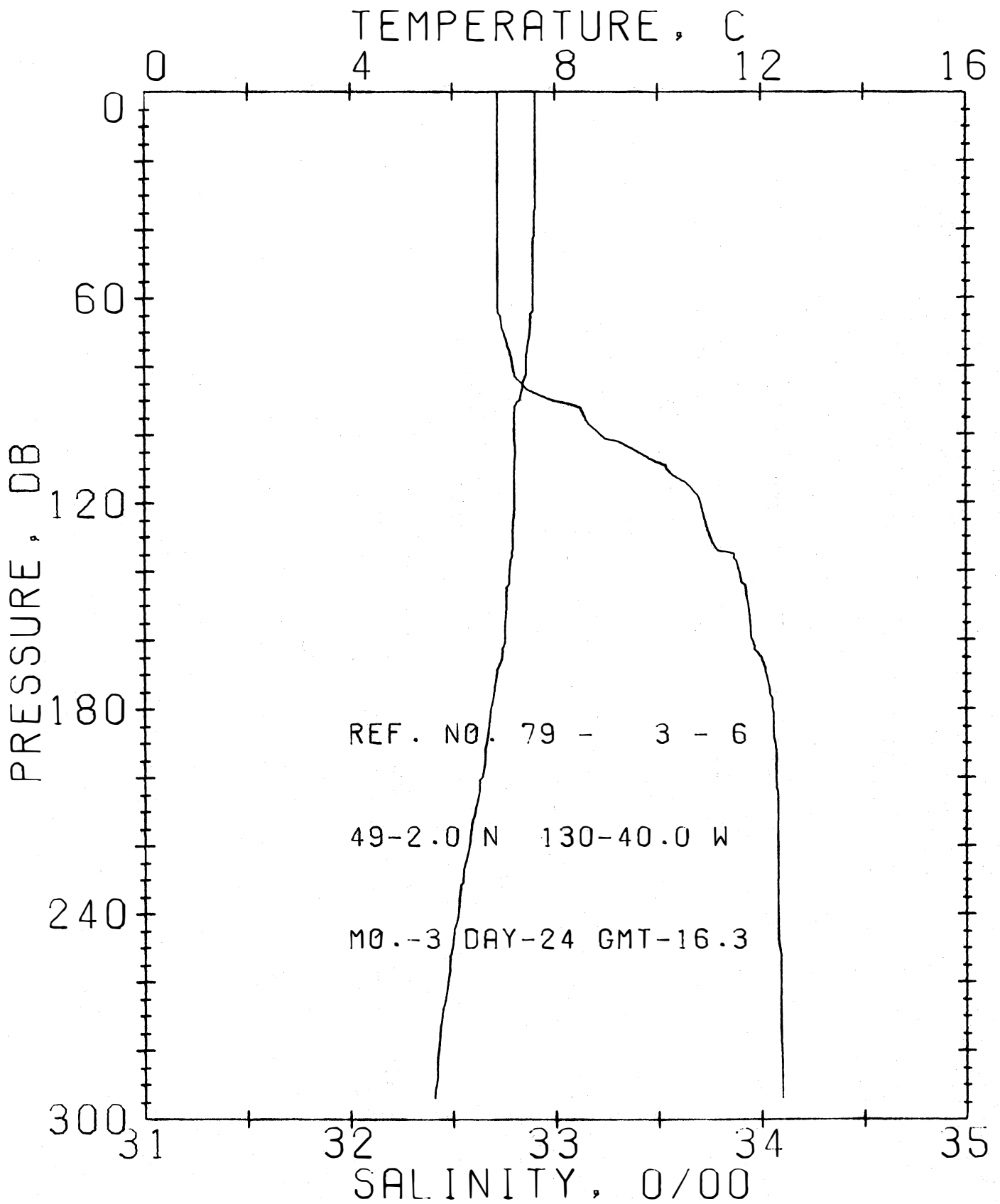
GMT 9.9

STATION 5

RESULTS OF STP CAST 316 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	8.32	32.58	0	25.35	263.2	.00	.00	1481.
10	8.32	32.58	10	25.35	263.3	.26	.01	1481.
20	7.87	32.58	20	25.42	257.3	.52	.05	1480.
30	7.81	32.58	30	25.43	256.5	.78	.12	1480.
50	7.70	32.77	50	25.59	241.2	1.28	.32	1480.
75	7.81	33.47	75	26.13	190.6	1.83	.67	1481.
100	7.57	33.79	99	26.41	164.4	2.27	1.06	1481.
125	7.30	33.94	124	26.56	149.9	2.66	1.50	1481.
150	7.30	34.01	149	26.62	145.1	3.03	2.02	1481.
175	7.10	34.03	174	26.66	141.3	3.38	2.62	1481.
200	6.91	34.05	199	26.71	137.6	3.73	3.28	1481.
225	6.60	34.05	223	26.75	133.9	4.07	4.02	1480.
250	6.37	34.06	248	26.79	130.5	4.41	4.82	1479.
300	5.96	34.07	298	26.85	125.2	5.04	6.61	1479.
400	5.35	34.09	397	26.94	117.4	6.25	10.91	1478.
500	4.61	34.09	496	27.02	109.7	7.38	16.09	1476.
600	4.35	34.19	595	27.13	100.2	8.42	21.93	1477.
800	3.90	34.35	793	27.30	85.1	10.29	35.16	1479.
1000	3.38	34.39	990	27.39	77.6	11.91	50.08	1480.
1200	3.03	34.45	1188	27.47	70.6	13.40	66.73	1482.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 6

DATE 24/ 3/79

POSITION 49- 2.0N, 130-40.0W

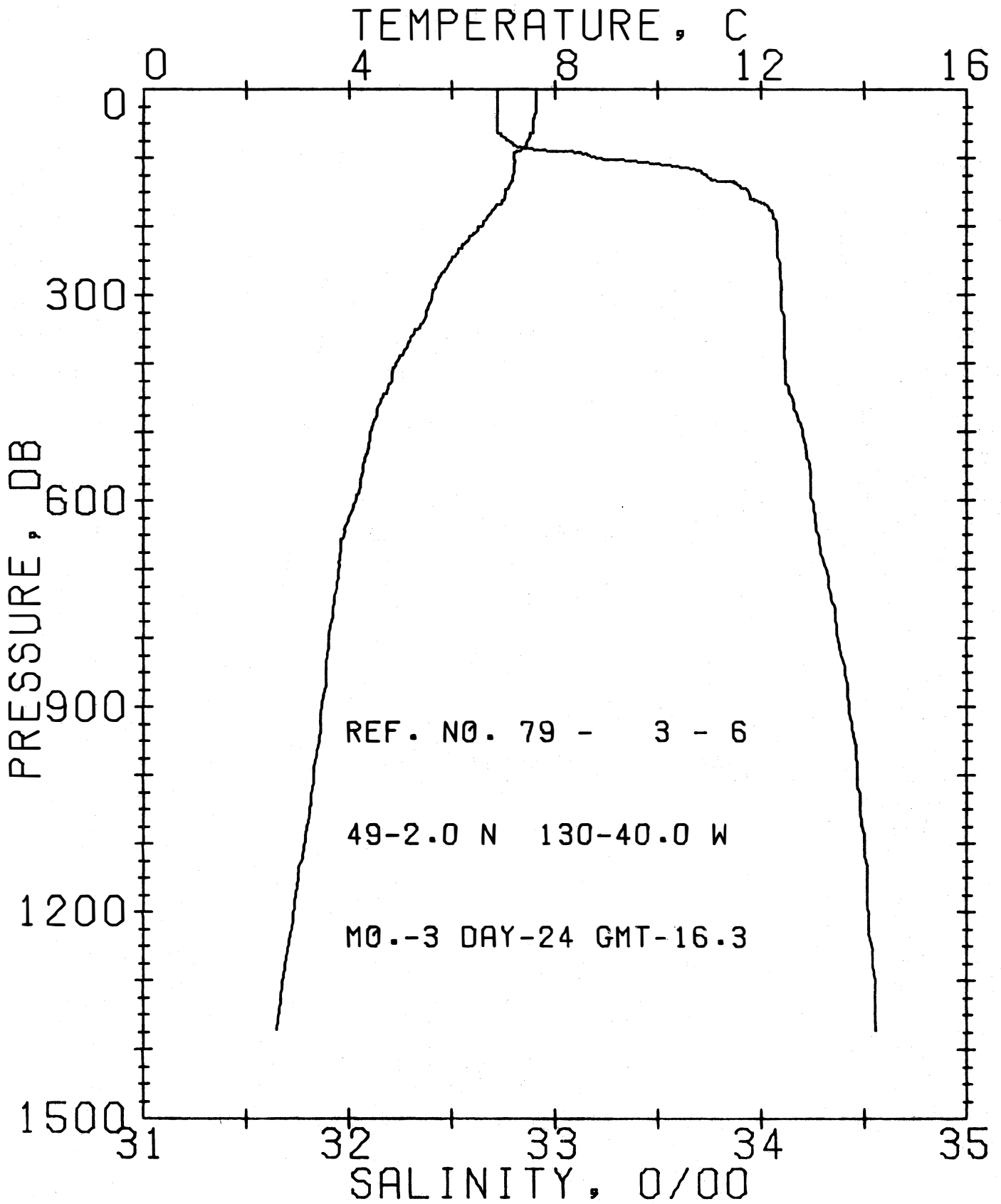
GMT 16.3

STATION 6

RESULTS OF STP CAST 114 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	7.64	32.72	0	25.56	243.4	.00	.00	1479.
10	7.64	32.72	10	25.56	243.5	.24	.01	1479.
20	7.64	32.72	20	25.56	243.7	.49	.05	1479.
30	7.63	32.72	30	25.56	243.6	.73	.11	1479.
40	7.59	32.72	40	25.57	243.3	.97	.20	1479.
50	7.58	32.72	50	25.57	243.3	1.22	.31	1479.
60	7.57	32.72	60	25.57	243.3	1.46	.45	1479.
70	7.50	32.75	70	25.60	240.6	1.70	.61	1479.
80	7.44	32.80	80	25.65	236.3	1.94	.79	1479.
90	7.31	32.99	89	25.82	220.2	2.17	.99	1479.
100	7.19	33.22	99	26.01	201.7	2.38	1.19	1479.
110	7.20	33.54	109	26.26	178.1	2.57	1.39	1480.
120	7.19	33.70	119	26.39	165.9	2.74	1.59	1480.
130	7.18	33.75	129	26.43	162.2	2.90	1.80	1480.
140	7.10	33.89	139	26.55	151.0	3.06	2.02	1480.
150	7.03	33.94	149	26.60	146.9	3.21	2.24	1480.
160	7.00	33.95	159	26.62	145.4	3.36	2.47	1480.
170	6.85	34.02	169	26.69	138.4	3.50	2.71	1480.
180	6.73	34.05	179	26.73	134.5	3.63	2.95	1480.
190	6.65	34.07	189	26.75	132.9	3.77	3.20	1480.
200	6.56	34.07	199	26.77	131.5	3.90	3.46	1479.
210	6.41	34.08	209	26.80	129.0	4.03	3.74	1479.
220	6.31	34.08	218	26.81	127.8	4.16	4.02	1479.
230	6.18	34.08	228	26.83	126.3	4.28	4.31	1478.
240	6.09	34.08	238	26.84	125.4	4.41	4.61	1478.
250	5.97	34.09	248	26.86	123.5	4.54	4.92	1478.
260	5.89	34.09	258	26.87	122.3	4.66	5.24	1478.
270	5.77	34.09	268	26.89	120.9	4.78	5.57	1477.
280	5.70	34.10	278	26.90	119.7	4.90	5.91	1477.
290	5.66	34.10	288	26.91	119.1	5.02	6.25	1477.
300	5.61	34.10	298	26.91	118.6	5.14	6.61	1477.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 6

DATE 24/ 3/79

POSITION 49- 2.0N, 130-40.0W

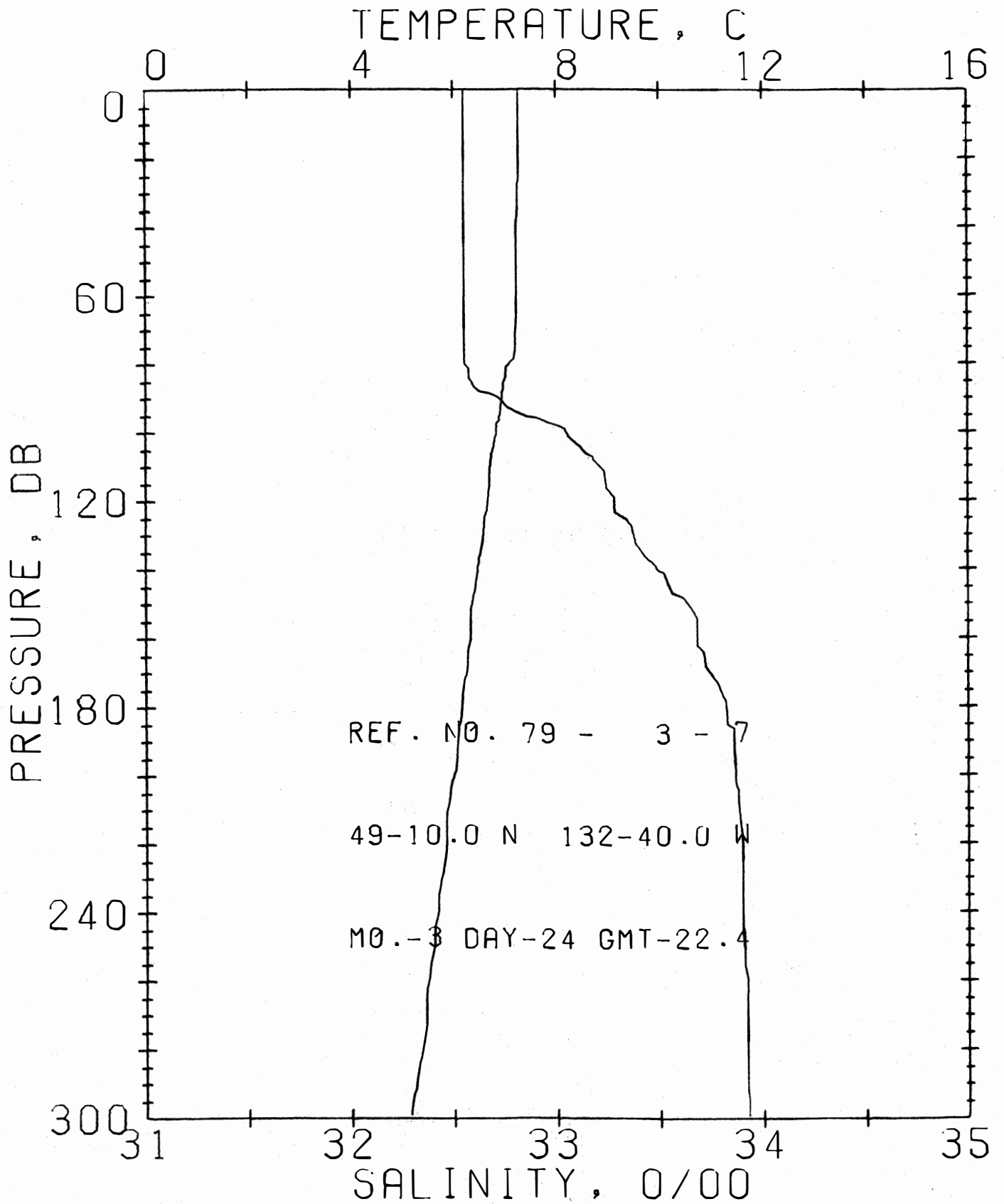
GMT 16.3

STATION 6

RESULTS OF STP CAST 255 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	7.64	32.72	0	25.56	243.4	.00	.00	1479.
10	7.64	32.72	10	25.56	243.5	.24	.01	1479.
20	7.64	32.72	20	25.56	243.7	.49	.05	1479.
30	7.63	32.72	30	25.56	243.6	.73	.11	1479.
50	7.58	32.72	50	25.57	243.3	1.22	.31	1479.
75	7.46	32.78	75	25.63	237.9	1.82	.70	1479.
100	7.19	33.22	99	26.01	201.7	2.38	1.19	1479.
125	7.18	33.72	124	26.41	164.5	2.82	1.70	1480.
150	7.03	33.94	149	26.60	146.9	3.21	2.24	1480.
175	6.79	34.04	174	26.71	136.4	3.57	2.83	1480.
200	6.56	34.07	199	26.77	131.5	3.90	3.46	1479.
225	6.23	34.08	223		126.9	4.22	4.16	1478.
250	5.97	34.09	248	26.86	123.5	4.54	4.92	1478.
300	5.61	34.10	298	26.91	118.6	5.14	6.61	1477.
400	4.92	34.12	397	27.01	110.0	6.29	10.70	1476.
500	4.41	34.20	496	27.13	99.2	7.34	15.52	1476.
600	4.11	34.24	595	27.20	93.5	8.30	20.91	1476.
800	3.61	34.37	793	27.35	79.9	10.02	33.11	1477.
1000	3.31	34.47	990	27.46	70.8	11.52	46.84	1480.
1200	2.92	34.52	1188	27.53	64.4	12.87	61.95	1481.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 7

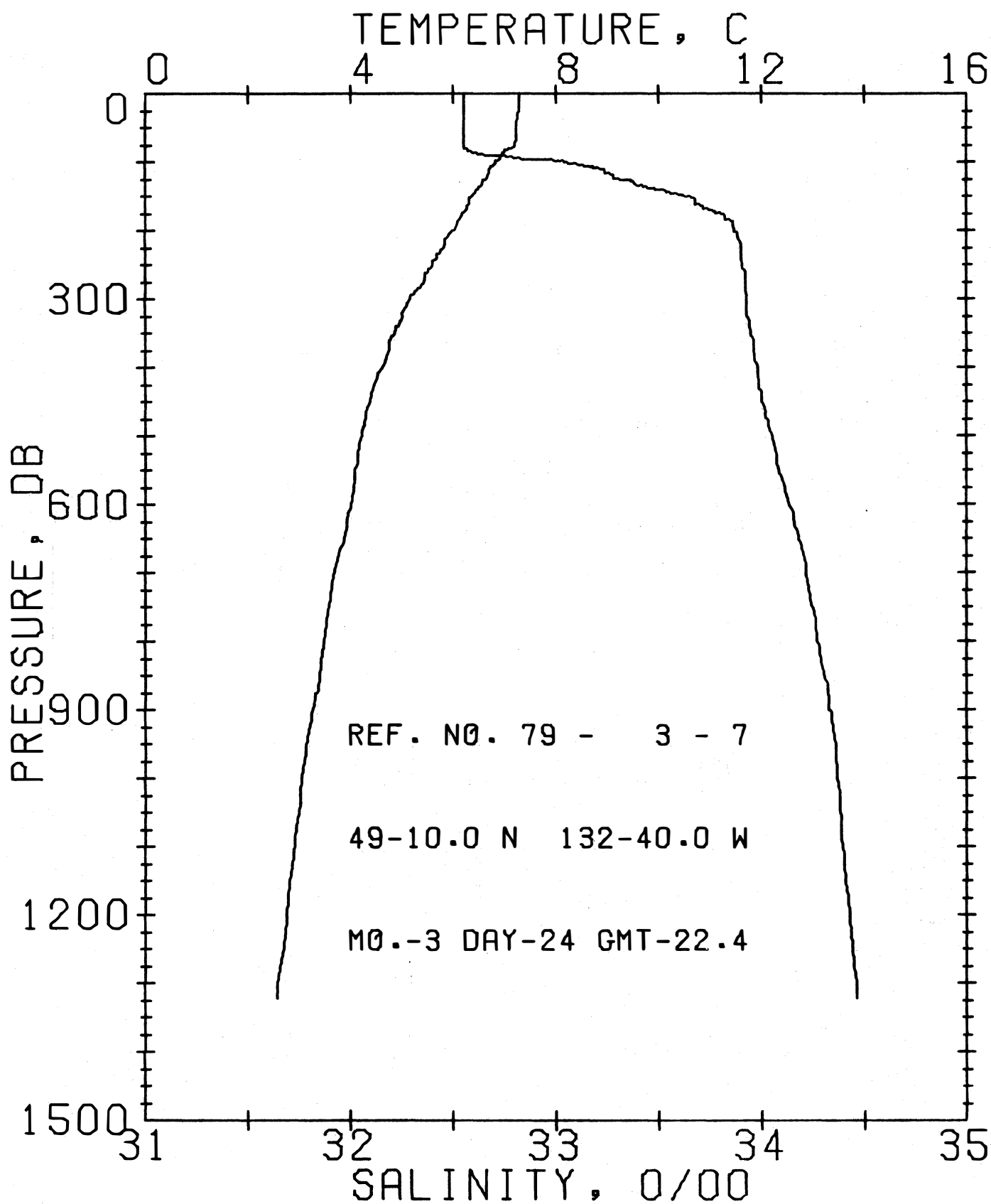
DATE 24/ 3/79

POSITION 49-10.0N, 132-40.0W GMT 22.4 STATION 7

RESULTS OF STP CAST 111 POINTS TAKEN FROM ANALOG TRACE

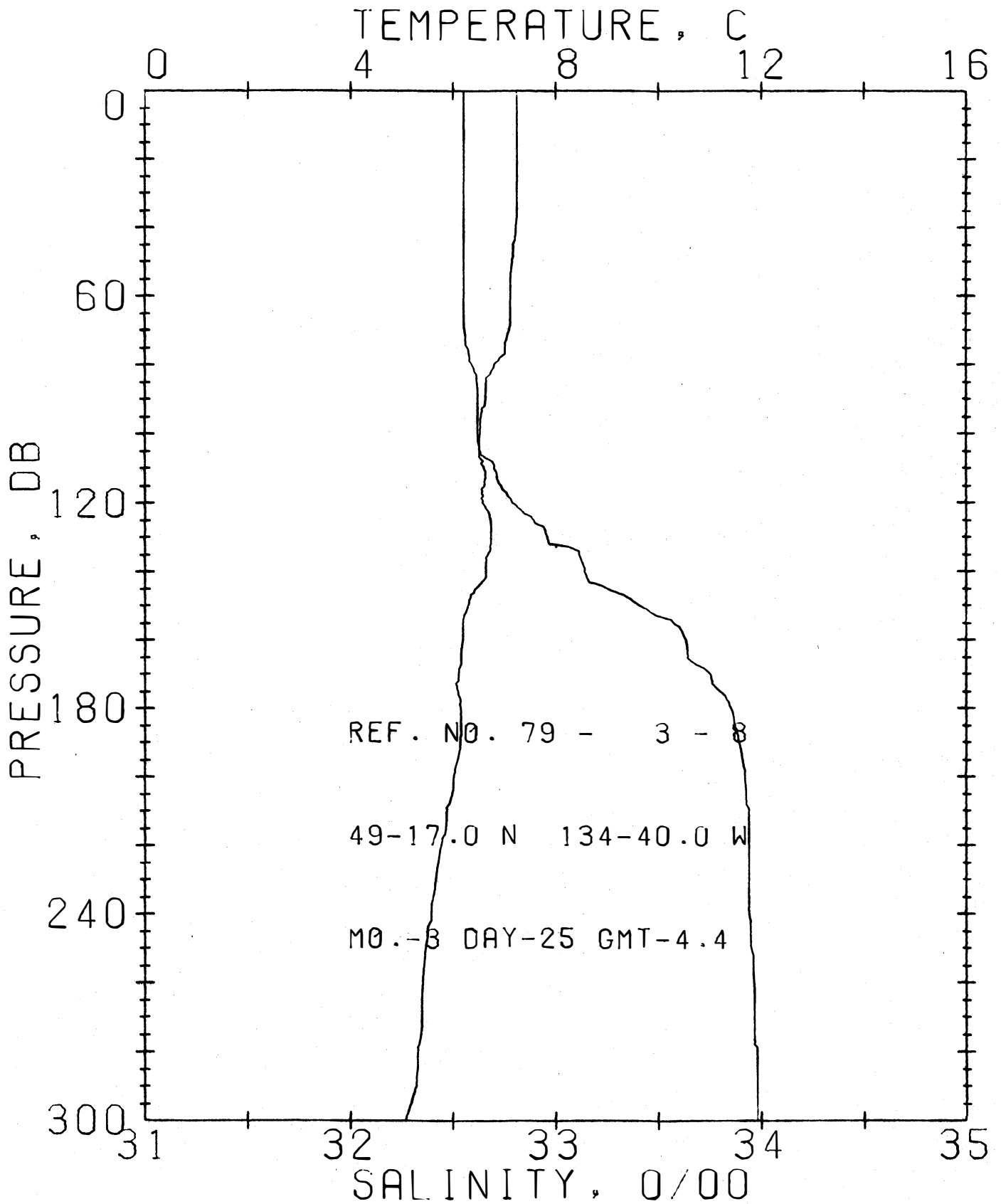
GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	7.29	32.55	0	25.48	251.4	.00	.00	1477.
10	7.29	32.55	10	25.48	251.5	.25	.01	1477.
20	7.28	32.55	20	25.48	251.5	.50	.05	1477.
30	7.25	32.55	30	25.48	251.3	.75	.12	1477.
40	7.23	32.55	40	25.48	251.2	1.01	.21	1477.
50	7.22	32.55	50	25.49	251.2	1.26	.32	1478.
60	7.22	32.55	60	25.49	251.3	1.51	.46	1478.
70	7.21	32.55	70	25.49	251.4	1.76	.63	1478.
80	7.08	32.55	80	25.50	249.7	2.01	.82	1477.
90	6.93	32.72	89	25.66	235.3	2.26	1.03	1477.
100	6.83	33.05	99	25.93	209.5	2.48	1.25	1477.
110	6.71	33.21	109	26.08	195.9	2.68	1.47	1477.
120	6.67	33.28	119	26.13	190.6	2.88	1.69	1477.
130	6.57	33.38	129	26.22	182.2	3.06	1.93	1477.
140	6.46	33.49	139	26.32	172.6	3.24	2.17	1477.
150	6.35	33.63	149	26.45	160.5	3.41	2.42	1477.
160	6.31	33.68	159	26.49	156.8	3.56	2.67	1477.
170	6.24	33.74	169	26.55	151.6	3.72	2.93	1477.
180	6.15	33.82	179	26.63	144.3	3.87	3.19	1477.
190	6.07	33.86	189	26.67	140.8	4.01	3.46	1477.
200	6.00	33.87	199	26.68	139.3	4.15	3.74	1477.
210	5.86	33.89	209	26.71	136.4	4.29	4.03	1476.
220	5.83	33.90	218	26.73	135.2	4.42	4.32	1477.
230	5.74	33.90	228	26.74	134.3	4.56	4.63	1476.
240	5.67	33.90	238	26.75	133.5	4.69	4.95	1476.
250	5.60	33.91	248	26.76	132.1	4.82	5.29	1476.
260	5.48	33.92	258	26.79	129.9	4.95	5.63	1476.
270	5.44	33.92	268	26.79	129.7	5.08	5.98	1476.
280	5.36	33.92	278	26.80	128.8	5.21	6.34	1476.
290	5.24	33.92	288	26.81	127.5	5.34	6.71	1475.
300	5.13	33.93	298	26.83	125.6	5.47	7.09	1475.



OFFSHORE OCEANOGRAPHY GROUP
 REFERENCE NO. 79- 3- 7 DATE 24/ 3/79
 POSITION 49-10.0N, 132-40.0W GMT 22.4 STATION 7
 RESULTS OF STP CAST 206 POINTS TAKEN FROM ANALOG TRACE
 GUIDELINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	7.29	32.55	0	25.48	251.4	.00	.00	1477.
10	7.29	32.55	10	25.48	251.5	.25	.01	1477.
20	7.28	32.55	20	25.48	251.5	.50	.05	1477.
30	7.25	32.55	30	25.48	251.3	.75	.12	1477.
50	7.22	32.55	50	25.49	251.2	1.26	.32	1478.
75	7.20	32.55	75	25.49	251.2	1.89	.72	1478.
100	6.83	33.05	99	25.93	209.5	2.48	1.25	1477.
125	6.59	33.34	124	26.19	185.2	2.97	1.81	1477.
150	6.35	33.63	149	26.45	160.5	3.41	2.42	1477.
175	6.17	33.80	174	26.60	146.7	3.79	3.06	1477.
200	6.00	33.87	199	26.68	139.3	4.15	3.74	1477.
225	5.80	33.90	223	26.73	134.9	4.49	4.48	1476.
250	5.60	33.91	248	26.76	132.1	4.82	5.29	1476.
300	5.13	33.93	298	26.83	125.6	5.47	7.09	1475.
400	4.61	33.98	397	26.93	116.9	6.68	11.42	1475.
500	4.21	34.05	496	27.03	108.1	7.81	16.58	1475.
600	4.00	34.13	595	27.12	100.9	8.86	22.44	1476.
800	3.48	34.27	793	27.28	86.1	10.70	35.58	1477.
1000	3.05	34.37	990	27.40	75.2	12.30	50.21	1478.
1200	2.75	34.43	1188	27.47	68.9	13.75	66.38	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 8

DATE 25/ 3/79

POSITION 49-17.0N, 134-40.0W

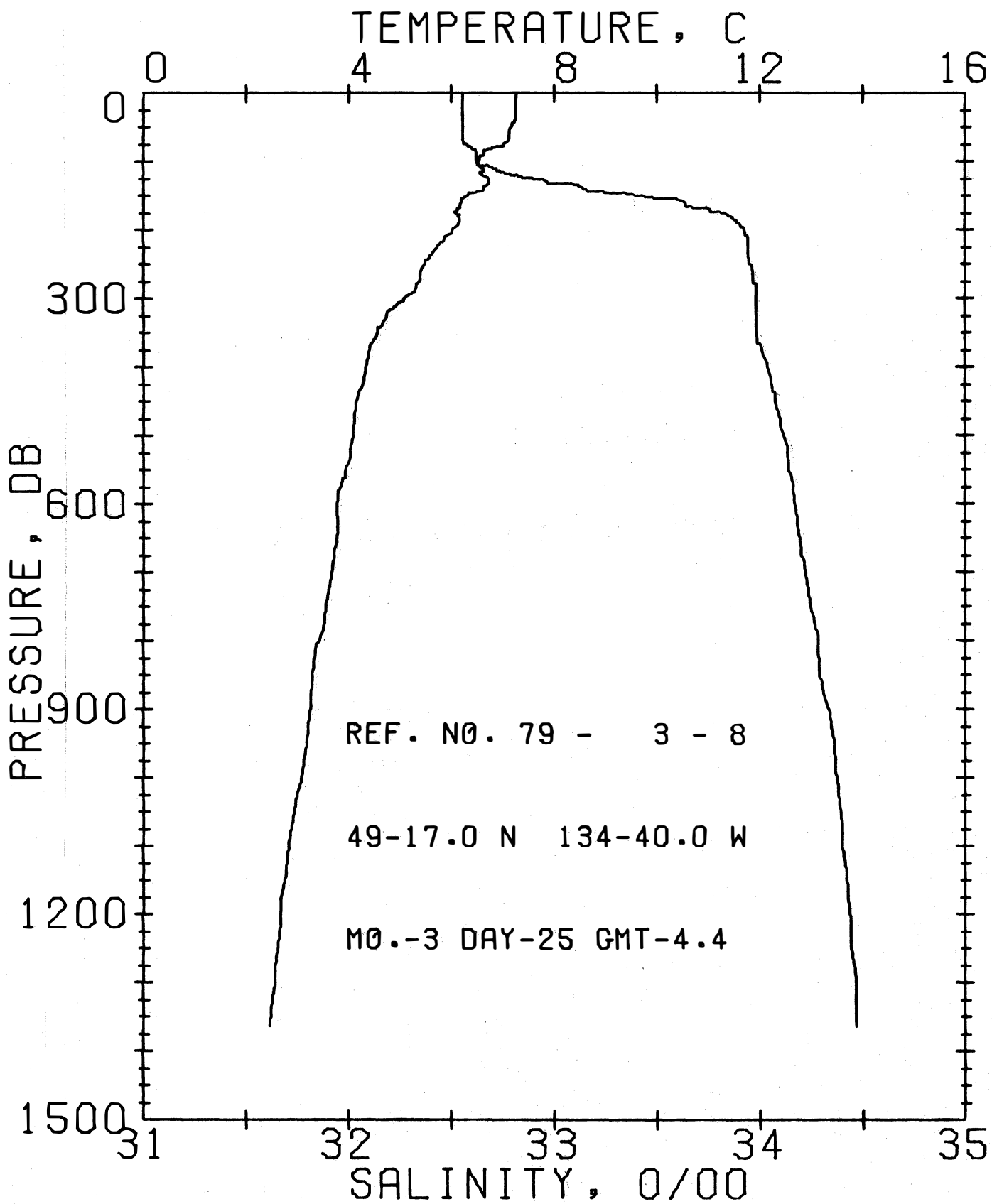
GMT 4.4

STATION 8

RESULTS OF STP CAST 140 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	7.24	32.55	0	25.48	250.7	.00	.00	1477.
10	7.25	32.55	10	25.48	251.0	.25	.01	1477.
20	7.25	32.55	20	25.48	251.2	.50	.05	1477.
30	7.25	32.55	30	25.48	251.3	.75	.12	1477.
40	7.23	32.55	40	25.48	251.2	1.00	.20	1477.
50	7.14	32.55	50	25.50	250.1	1.26	.32	1477.
60	7.12	32.55	60	25.50	249.9	1.51	.46	1477.
70	7.09	32.55	70	25.51	249.4	1.76	.63	1477.
80	6.80	32.59	80	25.57	243.2	2.00	.81	1476.
90	6.62	32.62	89	25.62	238.8	2.24	1.02	1476.
100	6.52	32.62	99	25.63	237.7	2.48	1.25	1476.
110	6.62	32.70	109	25.68	233.1	2.72	1.51	1476.
120	6.59	32.79	119	25.76	226.1	2.95	1.78	1476.
130	6.76	32.96	129	25.87	215.7	3.17	2.06	1478.
140	6.64	33.14	139	26.03	200.9	3.37	2.34	1477.
150	6.29	33.41	149	26.28	176.5	3.56	2.62	1477.
160	6.18	33.63	159	26.47	158.9	3.73	2.88	1477.
170	6.11	33.75	169	26.57	149.2	3.88	3.14	1477.
180	6.15	33.86	179	26.65	142.0	4.03	3.40	1477.
190	6.14	33.89	189	26.68	139.1	4.17	3.67	1477.
200	6.01	33.92	199	26.72	135.7	4.31	3.94	1477.
210	5.87	33.94	209	26.75	132.6	4.44	4.22	1477.
220	5.75	33.94	218	26.77	131.3	4.57	4.51	1476.
230	5.65	33.94	228	26.78	130.2	4.71	4.81	1476.
240	5.58	33.94	238	26.79	129.5	4.83	5.12	1476.
250	5.46	33.95	248	26.81	127.2	4.96	5.44	1476.
260	5.40	33.96	258	26.83	125.8	5.09	5.77	1476.
270	5.39	33.97	268	26.84	125.3	5.21	6.11	1476.
280	5.32	33.98	278	26.85	123.8	5.34	6.46	1476.
290	5.27	33.98	288	26.86	123.4	5.46	6.82	1475.
300	5.07	33.98	298	26.88	121.1	5.59	7.19	1475.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 8

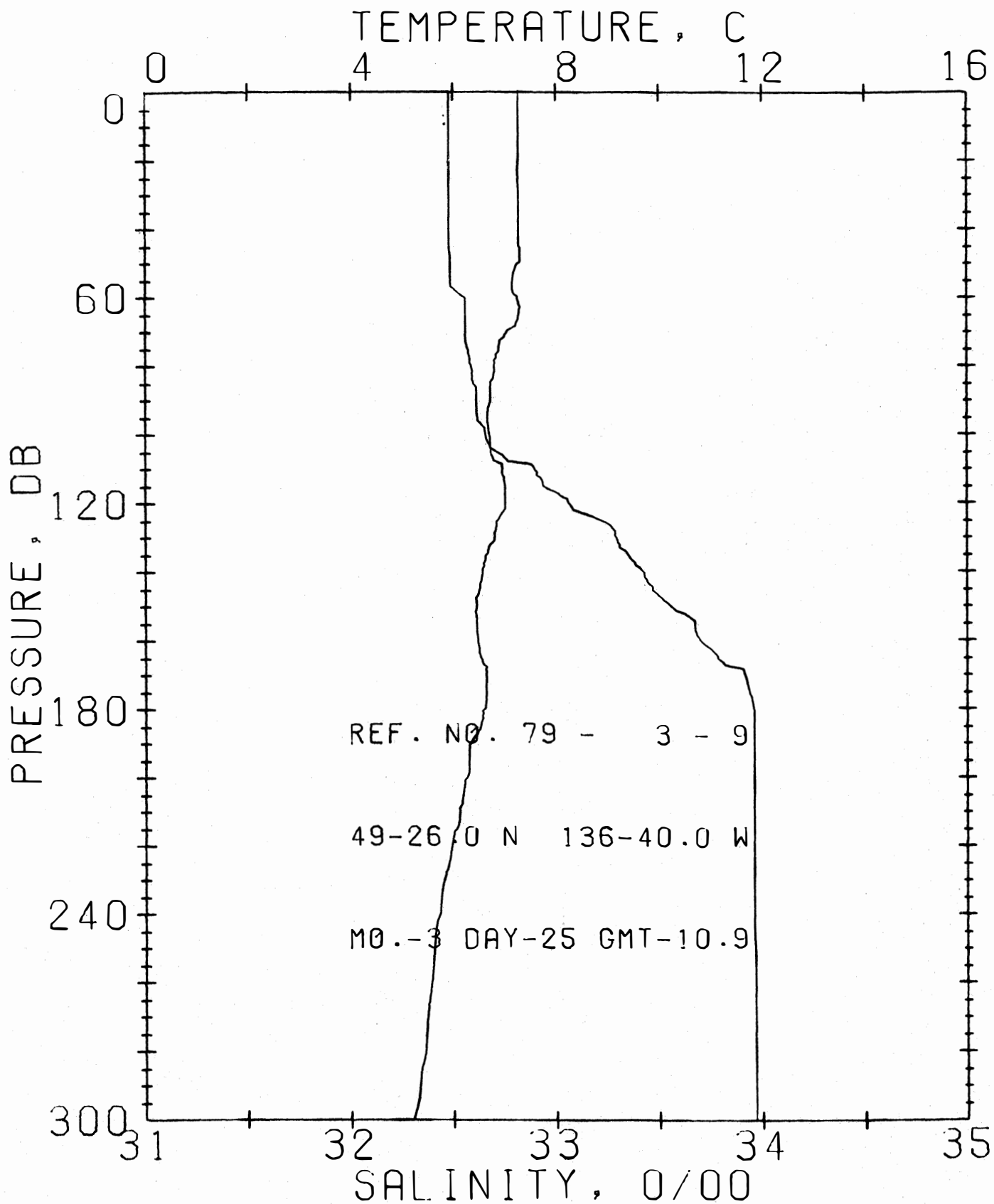
DATE 25/ 3/79

POSITION 49-17.0N, 134-40.0W GMT 4.4 STATION 8

RESULTS OF STP CAST 248 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	7.24	32.55	0	25.48	250.7	.00	.00	1477.
10	7.25	32.55	10	25.48	251.0	.25	.01	1477.
20	7.25	32.55	20	25.48	251.2	.50	.05	1477.
30	7.25	32.55	30	25.48	251.3	.75	.12	1477.
50	7.14	32.55	50	25.50	250.1	1.26	.32	1477.
75	7.01	32.57	75	25.53	247.3	1.88	.72	1477.
100	6.52	32.62	99	25.63	237.7	2.48	1.25	1476.
125	6.75	32.89	124	25.82	220.7	3.06	1.91	1477.
150	6.29	33.41	149	26.28	176.5	3.56	2.62	1477.
175	6.10	33.80	174	26.62	145.4	3.96	3.27	1477.
200	6.01	33.92	199	26.72	135.7	4.31	3.94	1477.
225	5.69	33.94	223	26.78	130.6	4.64	4.66	1476.
250	5.46	33.95	248	26.81	127.2	4.96	5.44	1476.
300	5.07	33.98	298	26.88	121.1	5.59	7.19	1475.
400	4.32	34.03	397	27.00	109.9	6.74	11.29	1473.
500	4.09	34.11	496	27.09	102.2	7.79	16.12	1474.
600	3.77	34.17	595	27.17	95.5	8.78	21.64	1475.
800	3.40	34.28	793	27.30	84.6	10.60	34.58	1476.
1000	3.06	34.37	990	27.40	75.2	12.19	49.18	1478.
1200	2.67	34.44	1188	27.49	67.4	13.61	65.06	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 9

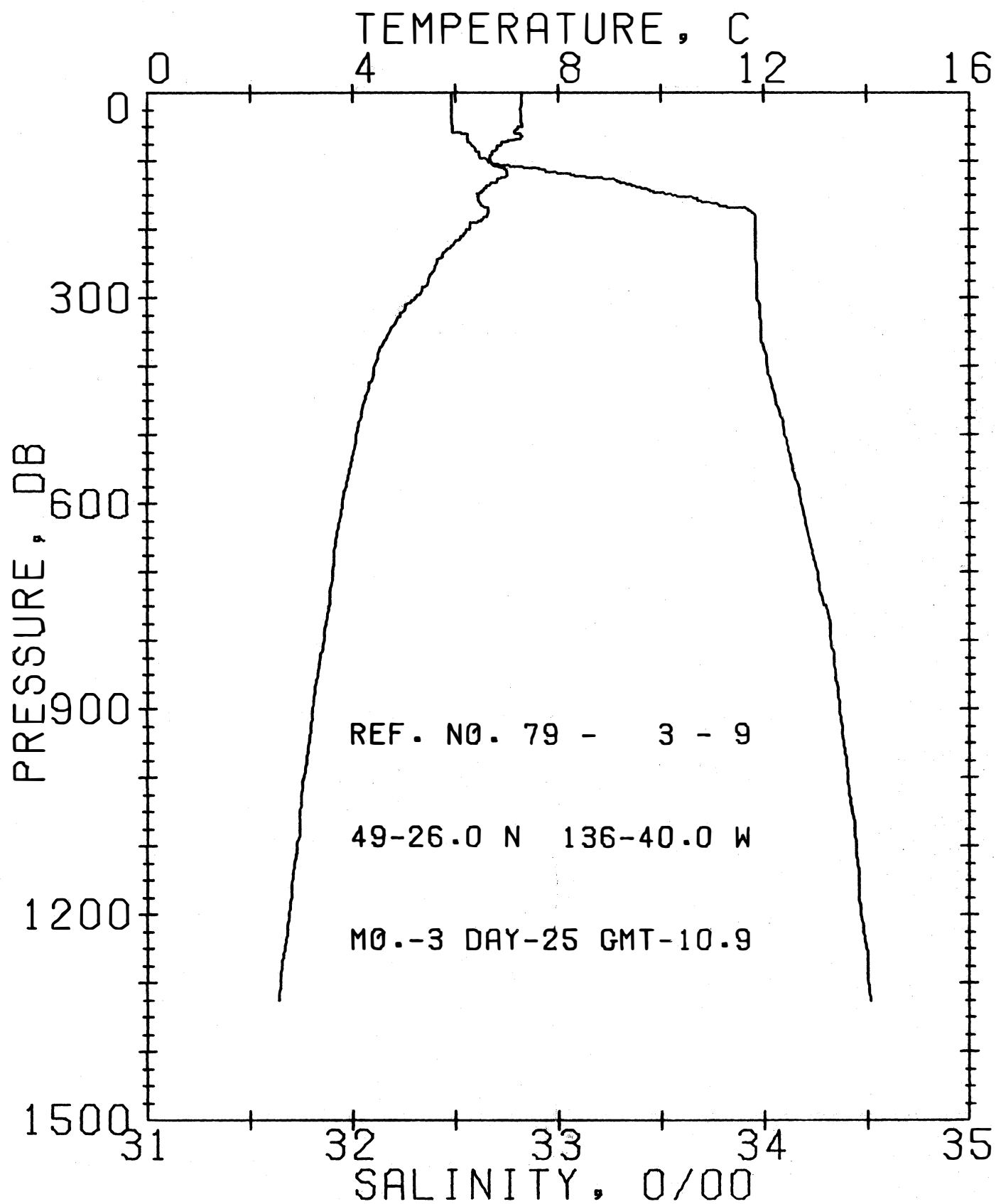
DATE 25/ 3/79

POSITION 49-26.0N, 136-40.0W GMT 10.9 STATION 9

RESULTS OF STP CAST 147 POINTS TAKEN FROM ANALOG TRACE

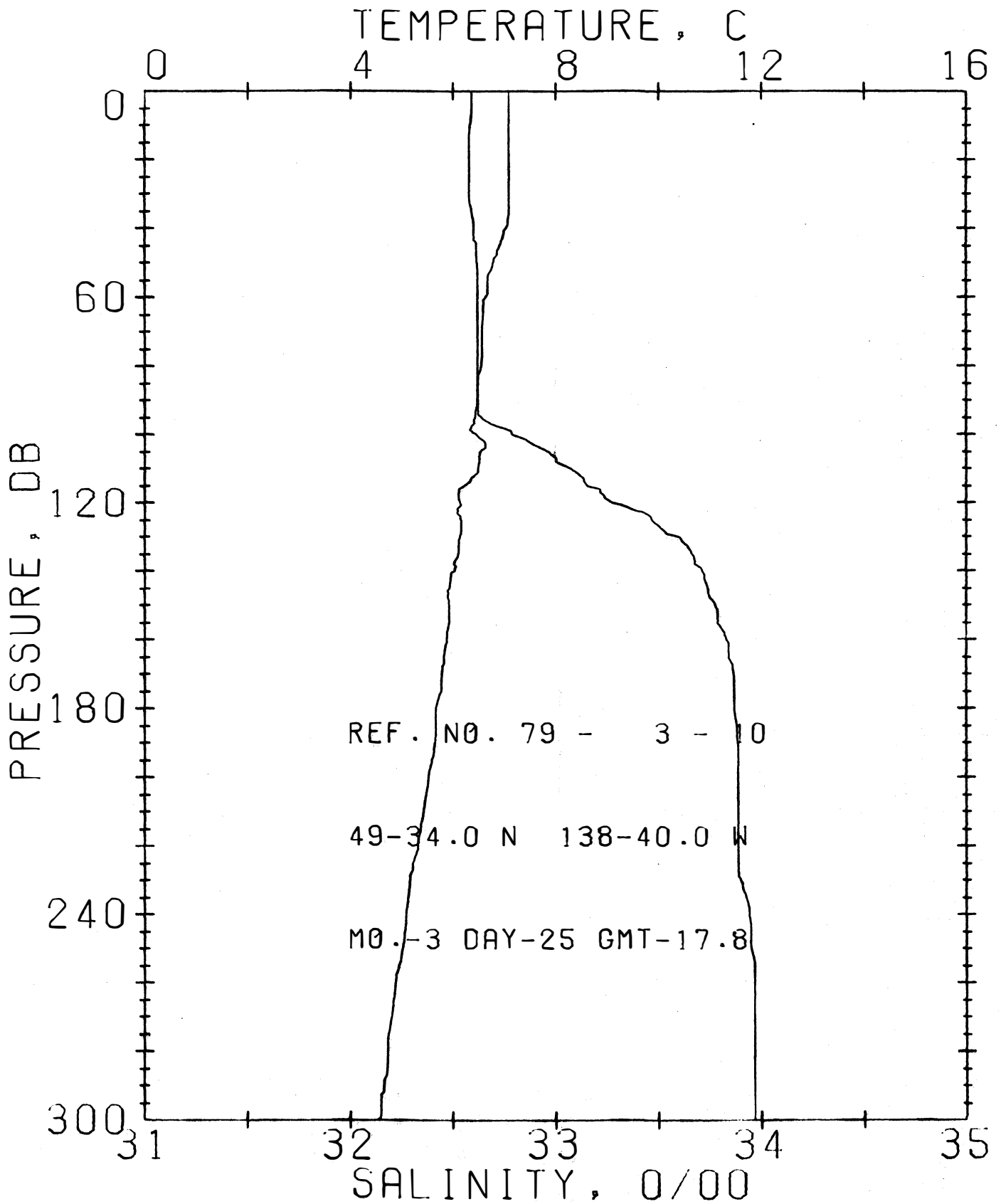
GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	7.27	32.48	0	25.42	256.4	.00	.00	1477.
10	7.28	32.48	10	25.42	256.6	.26	.01	1477.
20	7.27	32.48	20	25.42	256.6	.51	.05	1477.
30	7.27	32.48	30	25.42	256.8	.77	.12	1477.
40	7.28	32.48	40	25.42	257.0	1.03	.21	1477.
50	7.30	32.49	50	25.43	256.7	1.28	.33	1478.
60	7.25	32.56	60	25.49	251.0	1.54	.47	1478.
70	7.05	32.56	70	25.52	248.5	1.79	.64	1477.
80	6.80	32.59	80	25.57	243.5	2.03	.82	1476.
90	6.71	32.61	89	25.60	240.7	2.28	1.03	1476.
100	6.70	32.65	99	25.64	237.4	2.52	1.27	1476.
110	6.97	32.89	109	25.79	223.0	2.75	1.51	1478.
120	7.00	33.06	119	25.92	211.3	2.97	1.77	1478.
130	6.80	33.30	129	26.13	191.3	3.17	2.02	1478.
140	6.55	33.43	139	26.27	178.2	3.35	2.28	1477.
150	6.45	33.56	149	26.38	167.4	3.53	2.54	1477.
160	6.47	33.70	159	26.49	157.3	3.69	2.79	1478.
170	6.64	33.92	169	26.64	143.4	3.84	3.04	1479.
180	6.61	33.96	179	26.67	140.1	3.98	3.30	1479.
190	6.34	33.96	189	26.71	136.7	4.12	3.56	1478.
200	6.27	33.96	199	26.72	136.0	4.25	3.83	1478.
210	6.12	33.96	209	26.74	134.2	4.39	4.11	1478.
220	5.96	33.96	218	26.76	132.3	4.52	4.40	1477.
230	5.82	33.96	228	26.78	130.8	4.65	4.70	1477.
240	5.72	33.96	238	26.79	129.7	4.78	5.02	1476.
250	5.62	33.97	248	26.81	128.0	4.91	5.34	1476.
260	5.56	33.97	258	26.82	127.3	5.04	5.67	1476.
270	5.47	33.97	268	26.83	126.3	5.17	6.01	1476.
280	5.43	33.97	278	26.83	125.9	5.29	6.37	1476.
290	5.34	33.97	288	26.84	124.9	5.42	6.73	1476.
300	5.20	33.97	298	26.86	123.4	5.54	7.10	1475.



OFFSHORE OCEANOGRAPHY GROUP
 REFERENCE NO. 79- 3- 9 DATE 25/ 3/79
 POSITION 49-26.0N, 136-40.0W GMT 10.9 STATION 9
 RESULTS OF STP CAST 243 POINTS TAKEN FROM ANALOG TRACE
 GUIDELINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	7.27	32.48	0	25.42	256.4	.00	.00	1477.
10	7.28	32.48	10	25.42	256.6	.26	.01	1477.
20	7.27	32.48	20	25.42	256.6	.51	.05	1477.
30	7.27	32.48	30	25.42	256.8	.77	.12	1477.
50	7.30	32.49	50	25.43	256.7	1.28	.33	1478.
75	6.89	32.57	75	25.55	245.7	1.91	.73	1477.
100	6.70	32.65	99	25.64	237.4	2.52	1.27	1476.
125	6.88	33.21	124	26.05	198.2	3.07	1.90	1478.
150	6.45	33.56	149	26.38	167.4	3.53	2.54	1477.
175	6.65	33.94	174	26.65	142.0	3.91	3.17	1479.
200	6.27	33.96	199	26.72	136.0	4.25	3.83	1478.
225	5.90	33.96	223	26.77	131.6	4.59	4.55	1477.
250	5.62	33.97	248	26.81	128.0	4.91	5.34	1476.
300	5.20	33.97	298	26.86	123.4	5.54	7.10	1475.
400	4.43	34.01	397	26.98	112.2	6.71	11.27	1474.
500	4.06	34.10	496	27.09	102.8	7.79	16.19	1474.
600	3.78	34.18	595	27.18	94.6	8.77	21.71	1475.
800	3.42	34.32	793	27.33	81.4	10.53	34.19	1477.
1000	3.03	34.41	990	27.43	72.2	12.06	48.21	1478.
1200	2.75	34.47	1188	27.51	65.8	13.44	63.63	1481.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 10

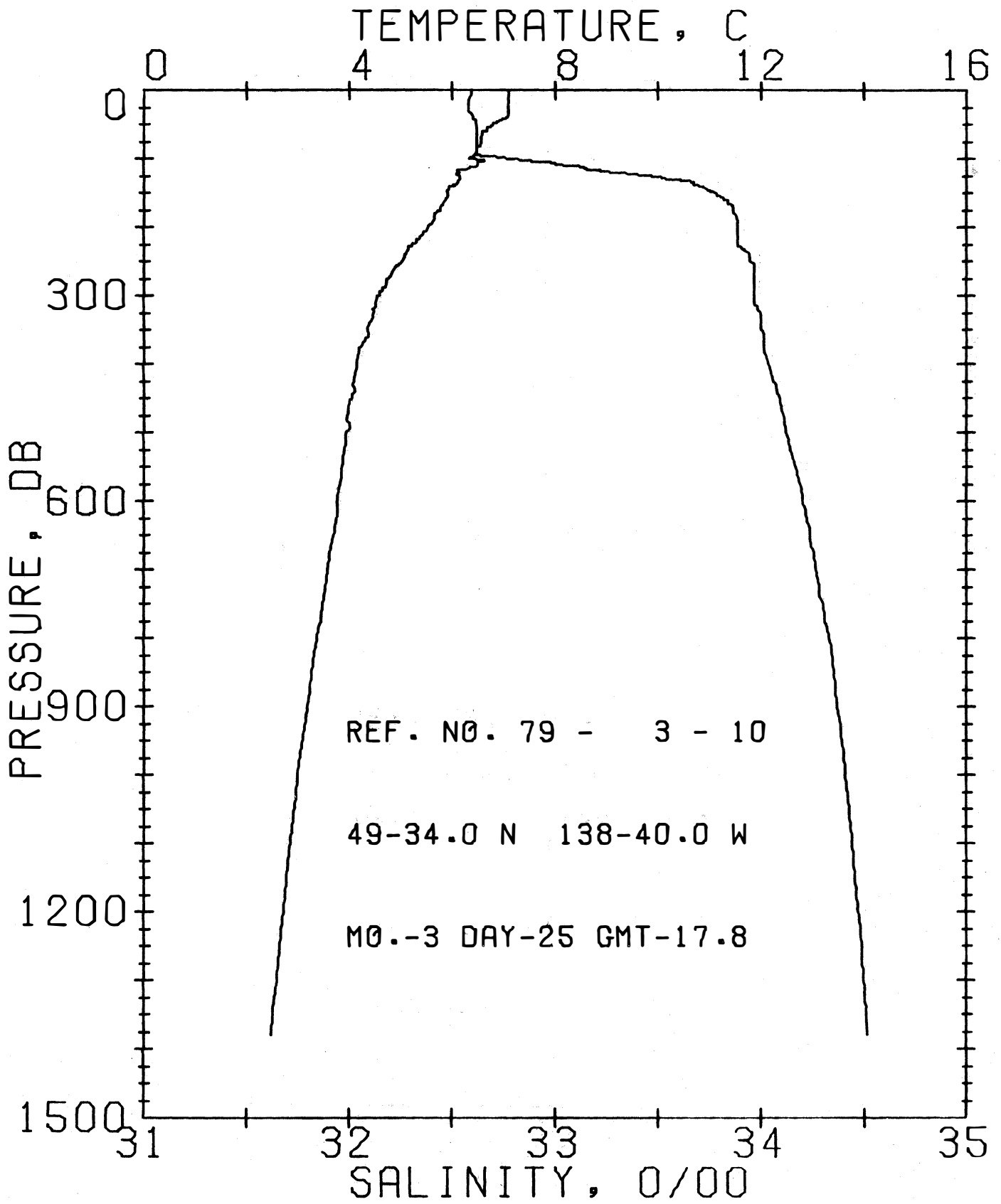
DATE 25/ 3/79

POSITION 49-34.0N, 138-40.0W GMT 17.8 STATION 10

RESULTS OF STP CAST 151 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	7.10	32.59	0	25.53	246.0	.00	.00	1476.
10	7.10	32.59	10	25.53	246.5	.25	.01	1476.
20	7.10	32.58	20	25.53	247.0	.49	.05	1477.
30	7.10	32.58	30	25.53	247.1	.74	.11	1477.
40	7.04	32.60	40	25.55	245.0	.99	.20	1477.
50	6.79	32.61	50	25.59	240.9	1.23	.31	1476.
60	6.63	32.62	60	25.62	238.5	1.47	.45	1475.
70	6.56	32.62	70	25.63	237.8	1.71	.60	1475.
80	6.54	32.62	80	25.63	237.6	1.94	.79	1475.
90	6.45	32.62	89	25.64	236.7	2.18	.99	1475.
100	6.46	32.79	99	25.77	224.2	2.41	1.22	1476.
110	6.49	33.07	109	25.99	203.9	2.63	1.45	1476.
120	6.13	33.27	119	26.19	184.6	2.82	1.67	1475.
130	6.13	33.60	129	26.45	160.1	2.99	1.89	1476.
140	6.03	33.71	139	26.55	150.8	3.15	2.10	1476.
150	5.93	33.78	149	26.62	144.5	3.30	2.32	1476.
160	5.87	33.83	159	26.67	140.2	3.44	2.55	1476.
170	5.78	33.86	169	26.71	136.6	3.58	2.78	1475.
180	5.66	33.87	179	26.72	134.9	3.71	3.02	1475.
190	5.64	33.89	189	26.74	133.5	3.85	3.28	1475.
200	5.52	33.89	199	26.76	132.0	3.98	3.54	1475.
210	5.42	33.89	209	26.77	130.9	4.11	3.81	1475.
220	5.31	33.89	218	26.78	129.7	4.24	4.10	1474.
230	5.14	33.90	228	26.81	127.2	4.37	4.39	1474.
240	5.08	33.94	238	26.85	123.6	4.49	4.69	1474.
250	5.01	33.95	248	26.87	121.9	4.62	5.00	1474.
260	4.88	33.97	258	26.90	119.3	4.74	5.31	1473.
270	4.80	33.97	268	26.90	118.5	4.86	5.63	1473.
280	4.72	33.97	278	26.91	117.7	4.97	5.96	1473.
290	4.64	33.97	288	26.92	117.0	5.09	6.31	1473.
300	4.54	33.97	298	26.93	115.9	5.21	6.66	1473.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 10

DATE 25/ 3/79

POSITION 49-34.0N, 138-40.0W

GMT 17.8

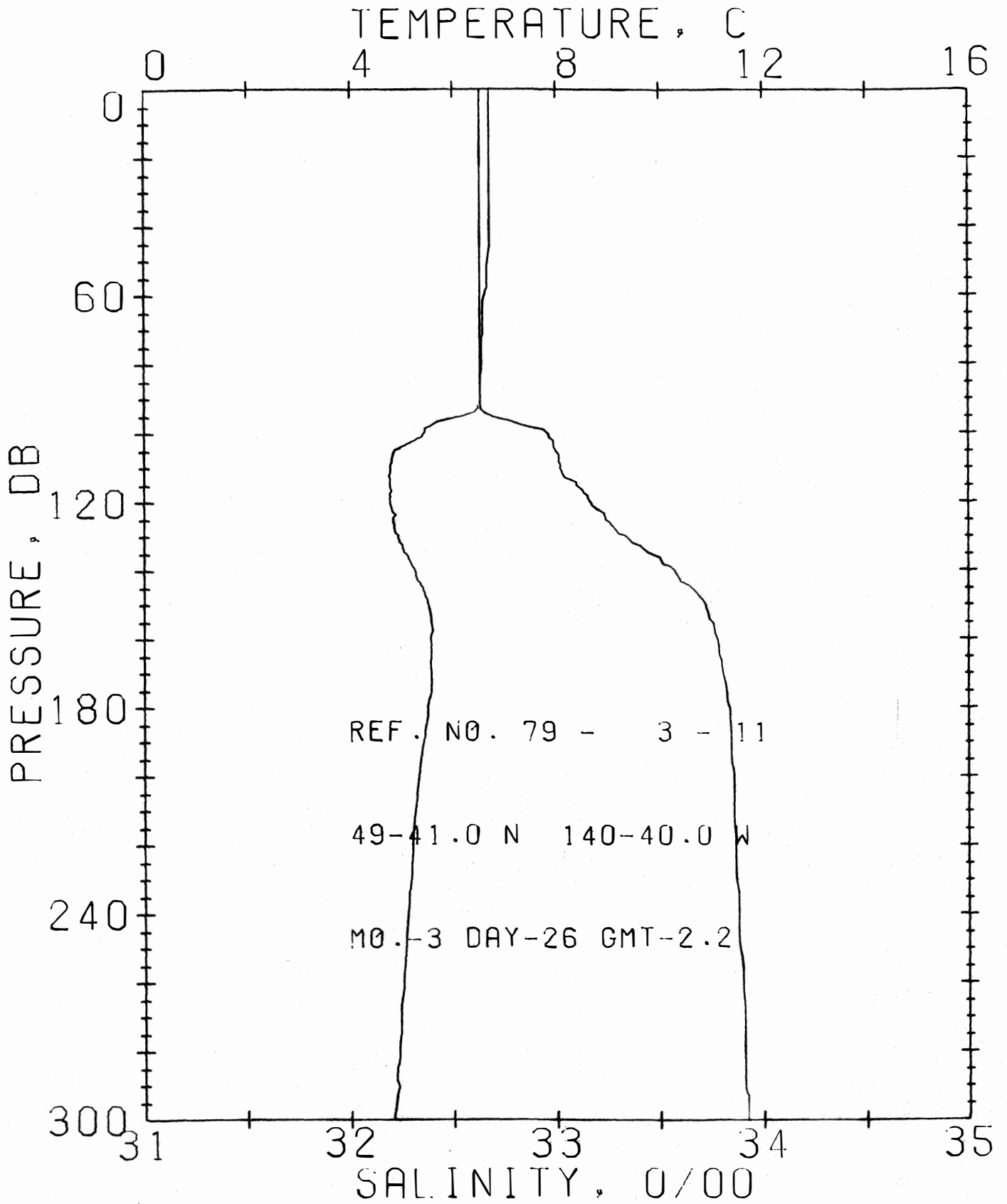
STATION 10

RESULTS OF STP CAST 243 POINTS TAKEN FROM

TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	7.10	32.59	0	25.53	246.0	.00	.00	1476.
10	7.10	32.59	10	25.53	246.5	.25	.01	1476.
20	7.10	32.58	20	25.53	247.0	.49	.05	1477.
30	7.10	32.58	30	25.53	247.1	.74	.11	1477.
50	6.79	32.61	50	25.59	240.9	1.23	.31	1476.
75	6.56	32.62	75	25.63	237.9	1.83	.69	1475.
100	6.46	32.79	99	25.77	224.2	2.41	1.22	1476.
125	6.16	33.47	124	26.35	170.1	2.91	1.78	1476.
150	5.93	33.78	149	26.62	144.5	3.30	2.32	1476.
175	5.76	33.87	174	26.71	136.1	3.64	2.90	1475.
200	5.52	33.89	199	26.76	132.0	3.98	3.54	1475.
225	5.21	33.89	223	26.79	128.7	4.31	4.25	1474.
250	5.01	33.95	248	26.87	121.9	4.62	5.00	1474.
300	4.54	33.97	298	26.93	115.9	5.21	6.66	1473.
400	4.13	34.03	397	27.03	107.7	6.33	10.64	1473.
500	3.93	34.12	496	27.12	99.9	7.36	15.38	1474.
600	3.77	34.20	595	27.20	93.0	8.33	20.77	1475.
800	3.36	34.33	793	27.34	80.4	10.06	33.13	1476.
1000	2.98	34.41	990	27.44	71.7	11.58	47.01	1478.
1200	2.71	34.47	1188	27.51	65.3	12.95	62.35	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 11

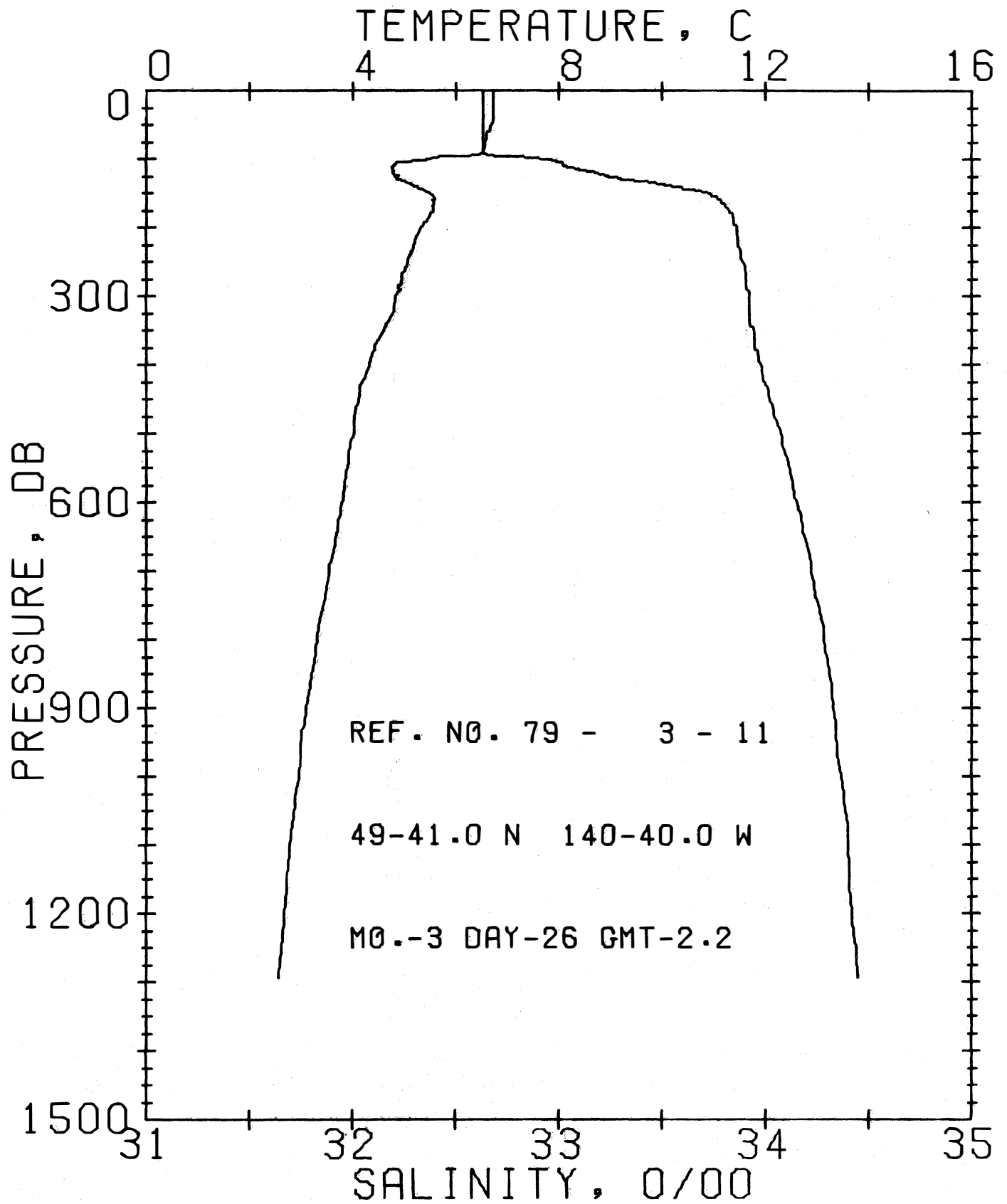
DATE 26/ 3/79

POSITION 49-41.0N, 140-40.0W GMT 2.2 STATION 11

RESULTS OF STP CAST 133 POINTS TAKEN FROM ANALOG TRACE

GUIDELINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	6.73	32.63	0	25.61	238.3	.00	.00	1475.
10	6.73	32.63	10	25.61	238.4	.24	.01	1475.
20	6.73	32.63	20	25.61	238.5	.48	.05	1475.
30	6.72	32.63	30	25.61	238.5	.72	.11	1475.
40	6.72	32.63	40	25.61	238.7	.95	.19	1475.
50	6.69	32.63	50	25.62	238.5	1.19	.30	1476.
60	6.62	32.63	60	25.63	237.7	1.43	.44	1475.
70	6.59	32.63	70	25.63	237.4	1.67	.59	1475.
80	6.55	32.63	79	25.64	237.1	1.91	.78	1475.
90	6.53	32.63	89	25.64	236.9	2.14	.98	1476.
100	5.43	32.96	99	26.03	199.3	2.37	1.20	1472.
110	4.78	33.02	109	26.16	187.8	2.56	1.40	1469.
120	4.78	33.16	119	26.27	177.4	2.74	1.62	1470.
130	4.93	33.34	129	26.39	165.6	2.91	1.84	1471.
140	5.25	33.57	139	26.54	152.1	3.07	2.05	1472.
150	5.51	33.72	149	26.62	144.2	3.22	2.27	1474.
160	5.55	33.78	159	26.67	140.1	3.36	2.50	1474.
170	5.56	33.81	169	26.69	138.1	3.50	2.73	1474.
180	5.50	33.84	179	26.72	135.3	3.64	2.98	1474.
190	5.43	33.85	189	26.74	133.8	3.77	3.23	1474.
200	5.33	33.86	199	26.76	132.0	3.90	3.49	1474.
210	5.25	33.86	209	26.77	131.2	4.04	3.77	1474.
220	5.19	33.87	218	26.78	129.9	4.17	4.05	1474.
230	5.16	33.87	228	26.79	129.4	4.30	4.35	1474.
240	5.10	33.88	238	26.80	128.3	4.43	4.66	1474.
250	5.06	33.89	248	26.81	127.4	4.55	4.98	1474.
260	5.02	33.90	258	26.82	126.1	4.68	5.31	1474.
270	4.97	33.91	268	26.84	124.8	4.81	5.65	1474.
280	4.94	33.91	278	26.84	124.7	4.93	6.00	1474.
290	4.91	33.91	288	26.84	124.4	5.05	6.36	1474.
300	4.84	33.92	298	26.86	123.0	5.18	6.73	1474.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 11

DATE 26/ 3/79

POSITION 49-41.0N, 140-40.0W

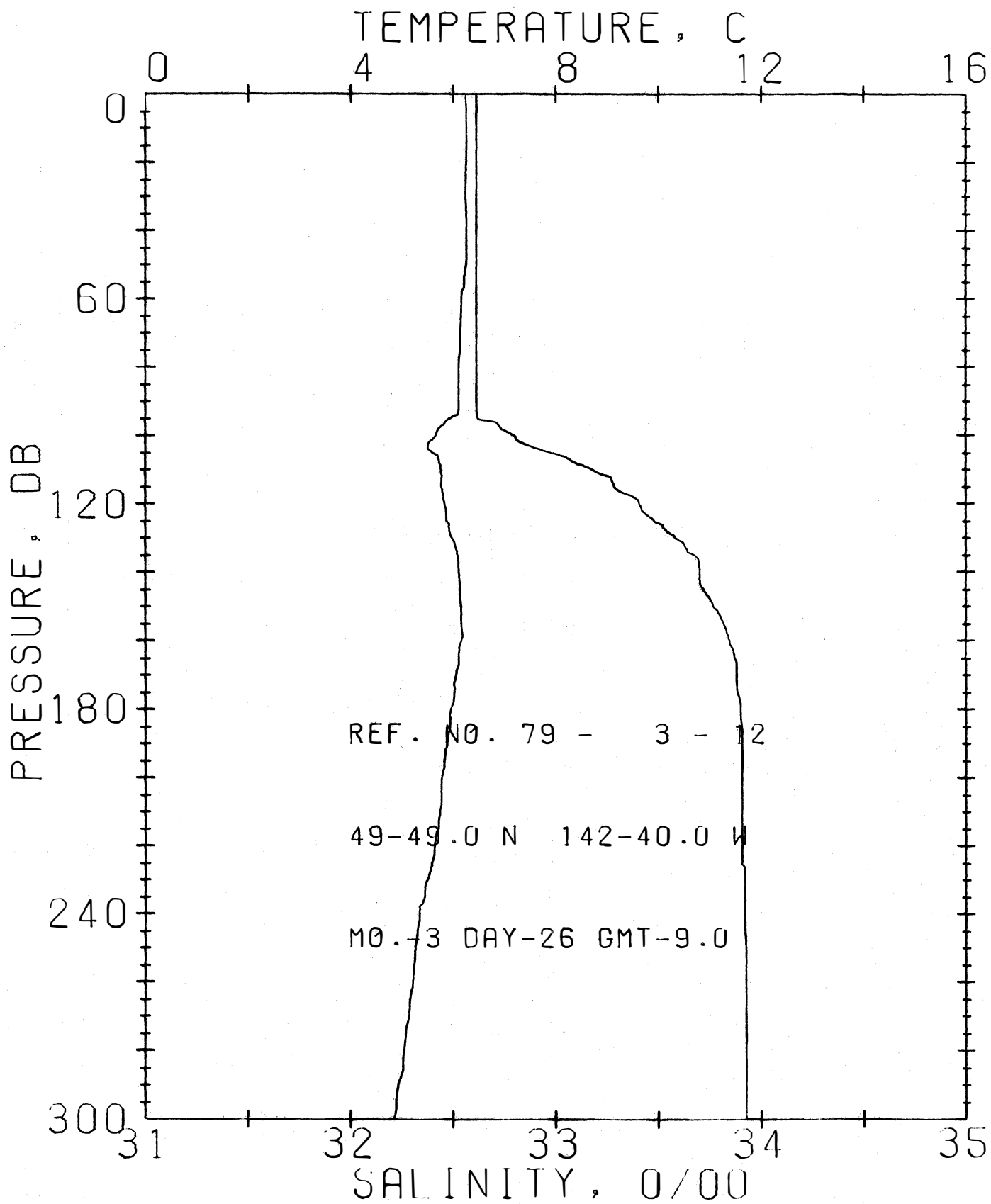
GMT 2.2

STATION 11

RESULTS OF STP CAST 231 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	6.73	32.63	0	25.61	238.3	.00	.00	1475.
10	6.73	32.63	10	25.61	238.4	.24	.01	1475.
20	6.73	32.63	20	25.61	238.5	.48	.05	1475.
30	6.72	32.63	30	25.61	238.5	.72	.11	1475.
50	6.69	32.63	50	25.62	238.5	1.19	.30	1476.
75	6.56	32.63	75	25.64	237.2	1.79	.68	1475.
100	5.43	32.96	99	26.03	199.3	2.37	1.20	1472.
125	4.84	33.24	124	26.32	172.1	2.83	1.73	1470.
150	5.51	33.72	149	26.62	144.2	3.22	2.27	1474.
175	5.56	33.83	174	26.70	136.9	3.57	2.85	1475.
200	5.33	33.86	199	26.76	132.0	3.90	3.49	1474.
225	5.18	33.87	223	26.78	129.9	4.23	4.20	1474.
250	5.06	33.89	248	26.81	127.4	4.55	4.98	1474.
300	4.84	33.92	298	26.86	123.0	5.18	6.73	1474.
400	4.32	33.96	397	26.96	114.0	6.37	10.97	1473.
500		34.07	496	27.07	104.3	7.46	15.96	1474.
600	3.79	34.15	595	27.15	97.1	8.46	21.59	1475.
800	3.29	34.28	793	27.31	83.1	10.26	34.36	1476.
1000	2.95	34.37	990	27.41	74.3	11.83	48.72	1478.
1200	2.67	34.42	1198	27.47	68.7	13.25	64.63	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 12

DATE 26/ 3/79

POSITION 49-49.0N, 142-40.0W

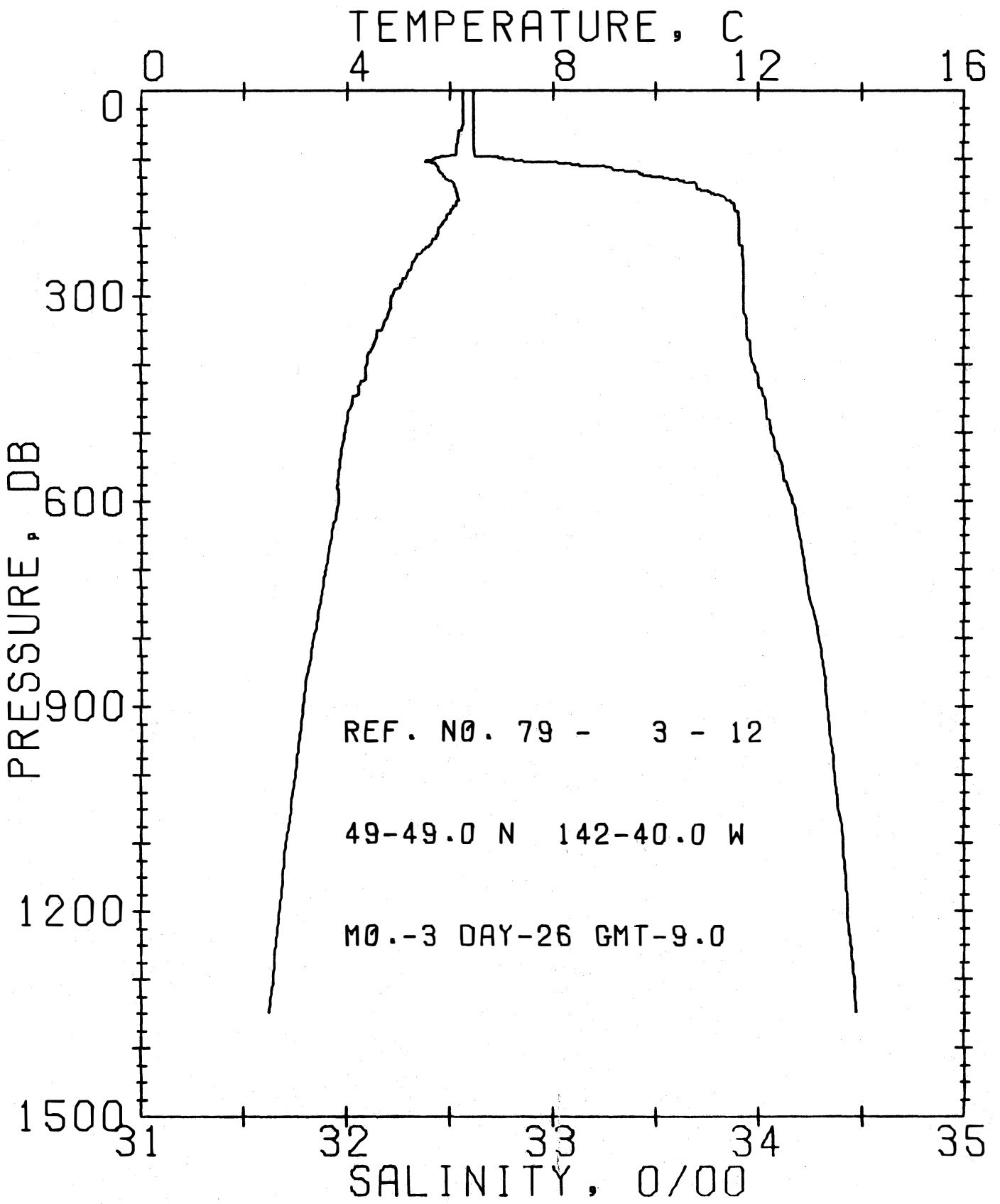
GMT 9.0

STATION 12

RESULTS OF STP CAST 132 POINTS TAKEN FROM ANALOG TRACE

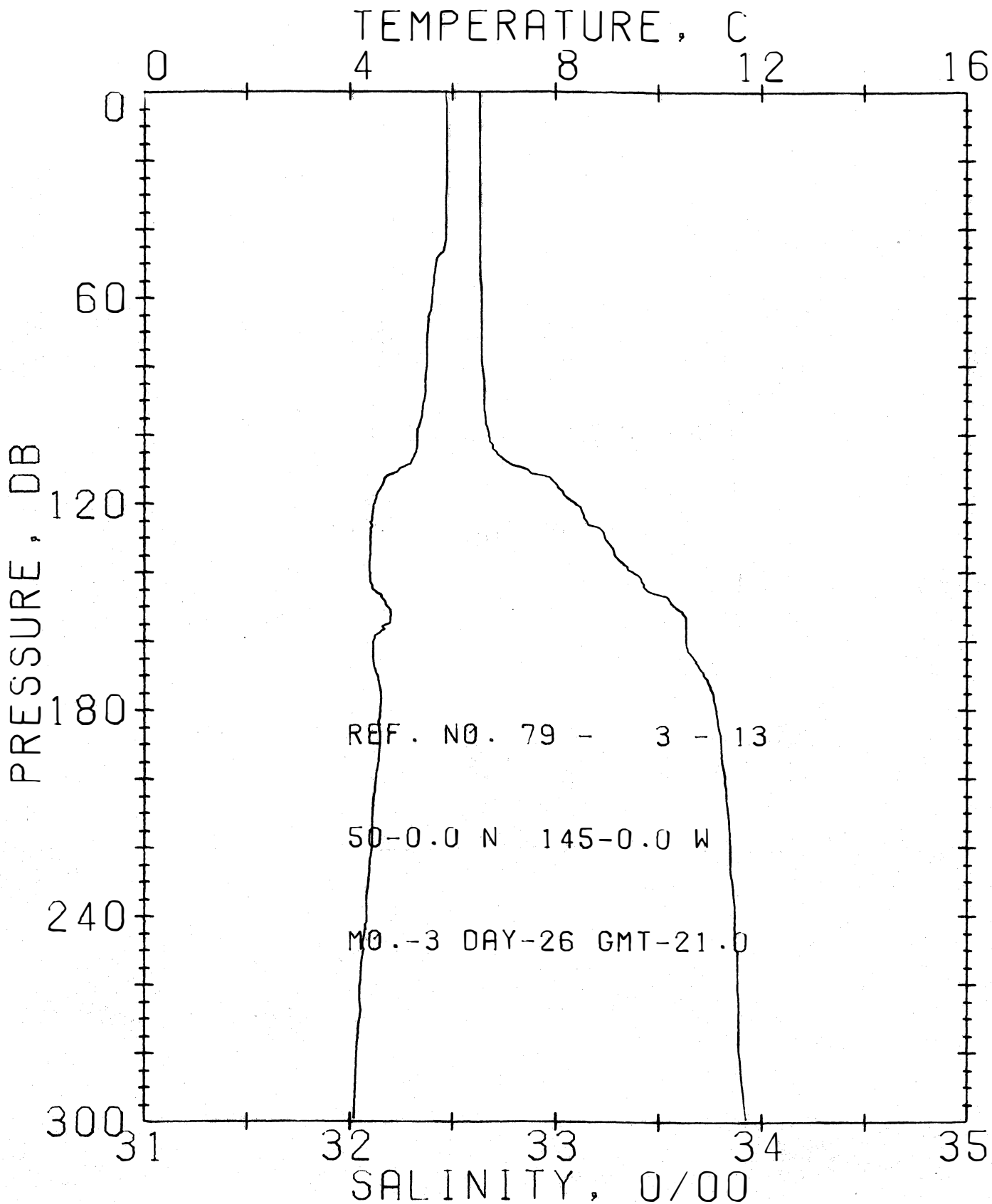
GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	6.25	32.61	0	25.66	233.9	.00	.00	1473.
10	6.26	32.61	10	25.66	234.2	.23	.01	1473.
20	6.26	32.61	20	25.66	234.3	.47	.05	1473.
30	6.25	32.61	30	25.66	234.3	.70	.11	1473.
40	6.26	32.61	40	25.66	234.5	.94	.19	1474.
50	6.25	32.61	50	25.66	234.5	1.17	.30	1474.
60	6.15	32.61	60	25.67	233.4	1.41	.43	1473.
70	6.14	32.61	70	25.67	233.4	1.64	.58	1474.
80	6.12	32.61	79	25.68	233.3	1.87	.76	1474.
90	6.11	32.61	89	25.68	233.3	2.11	.97	1474.
100	5.65	32.80	99	25.88	213.8	2.33	1.18	1472.
110	5.76	33.18	109	26.17	186.8	2.53	1.40	1473.
120	5.83	33.41	119	26.34	170.9	2.71	1.61	1474.
130	5.97	33.58	129	26.46	159.7	2.88	1.82	1475.
140	6.12	33.70	139	26.53	152.7	3.03	2.03	1476.
150	6.15	33.77	149	26.59	148.0	3.18	2.26	1476.
160	6.15	33.85	159	26.65	142.1	3.33	2.48	1477.
170	6.04	33.88	169	26.69	138.7	3.47	2.72	1477.
180	5.96	33.90	179	26.71	136.3	3.61	2.96	1476.
190	5.88	33.91	189	26.73	134.8	3.74	3.22	1476.
200	5.78	33.91	199	26.74	133.6	3.88	3.49	1476.
210	5.74	33.91	209	26.75	133.3	4.01	3.77	1476.
220	5.63	33.91	218	26.76	132.1	4.14	4.06	1476.
230	5.49	33.92	228	26.79	129.8	4.27	4.36	1475.
240	5.33	33.92	238	26.80	128.0	4.40	4.67	1475.
250	5.26	33.93	248	26.82	126.5	4.53	4.98	1475.
260	5.21	33.93	258	26.83	126.0	4.65	5.31	1475.
270	5.14	33.93	268	26.83	125.3	4.78	5.65	1475.
280	5.05	33.93	278	26.84	124.4	4.91	6.00	1474.
290	4.92	33.93	288	26.86	123.1	5.03	6.36	1474.
300	4.82	33.93	298	26.87	122.0	5.15	6.73	1474.



OFFSHORE OCEANOGRAPHY GROUP
 REFERENCE NO. 79- 3- 12 DATE 26/ 3/79
 POSITION 49-49.0N, 142-40.0W GMT 9.0 STATION 12
 RESULTS OF STP CAST 240 POINTS TAKEN FROM ANALOG TRACE
 GUIDELINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	6.25	32.61	0	25.66	233.9	.00	.00	1473.
10	6.26	32.61	10	25.66	234.2	.23	.01	1473.
20	6.26	32.61	20	25.66	234.3	.47	.05	1473.
30	6.25	32.61	30	25.66	234.3	.70	.11	1473.
50	6.25	32.61	50	25.66	234.5	1.17	.30	1474.
75	6.13	32.61	75	25.67	233.4	1.76	.67	1474.
100	5.65	32.80	99	25.88	213.8	2.33	1.18	1472.
125	5.88	33.48	124	26.39	166.0	2.80	1.71	1475.
150	6.15	33.77	149	26.59	148.0	3.18	2.26	1476.
175	6.03	33.89	174	26.69	137.9	3.54	2.84	1477.
200	5.78	33.91	199	26.74	133.6	3.88	3.49	1476.
225	5.58	33.91	223	26.77	131.5	4.21	4.21	1476.
250	5.26	33.93	248	26.82	126.5	4.53	4.98	1475.
300	4.82	33.93	298	26.87	122.0	5.15	6.73	1474.
400	4.35	33.97	397	26.96	114.4	6.34	10.97	1473.
500	3.93	34.06	496	27.07	104.2	7.43	15.96	1473.
600	3.82	34.16	595	27.16	96.5	8.44	21.58	1475.
800	3.33	34.28	793	27.31	83.4	10.24	34.38	1476.
1000	2.97	34.37	990	27.40	74.8	11.81	48.78	1478.
1200	2.68	34.43	1188	27.48	68.0	13.23	64.68	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 13

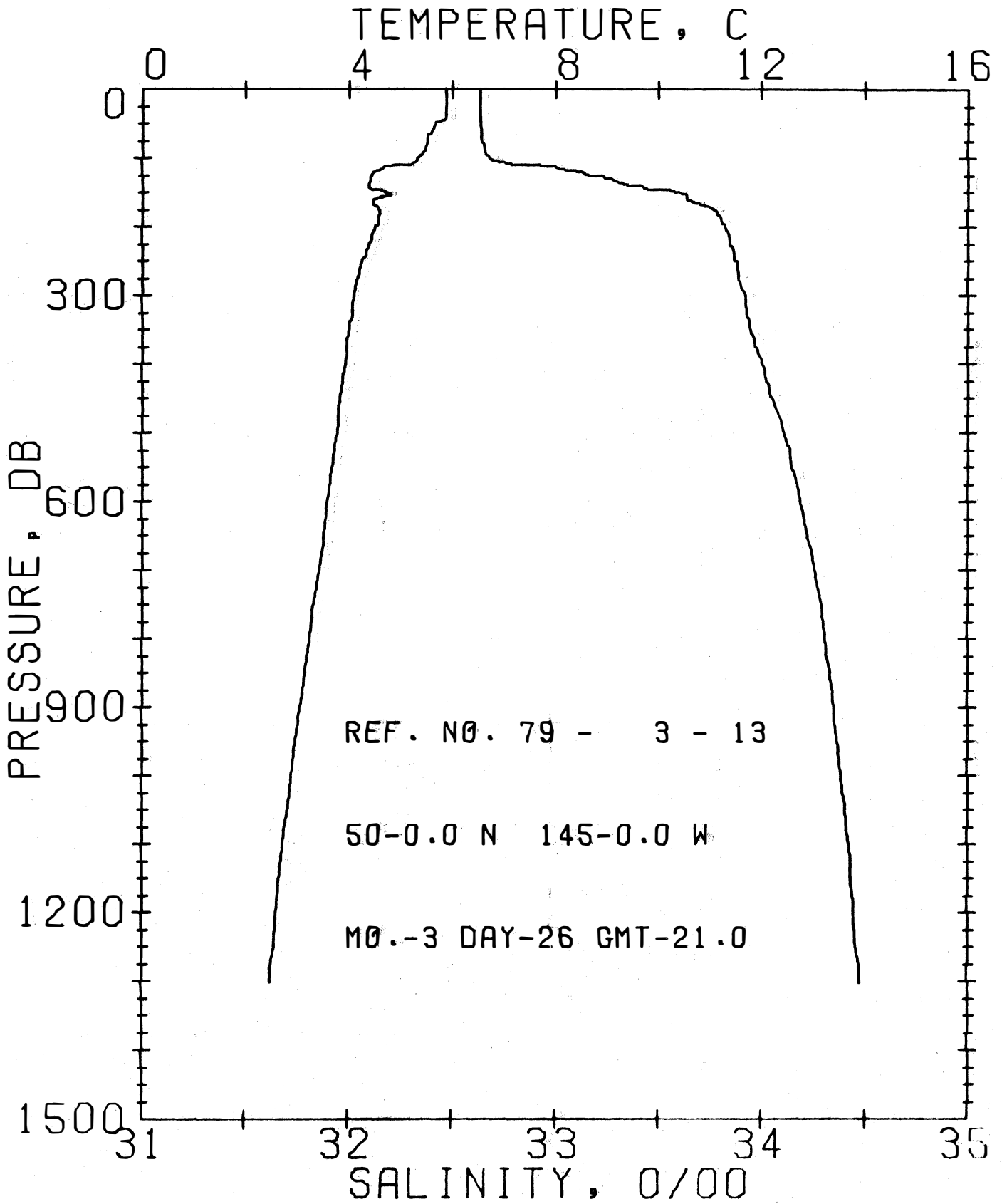
DATE 26/ 3/79

POSITION 50- .0N, 145- .0W GMT 21.0 STATION P

RESULTS OF STP CAST 131 POINTS TAKEN FROM ANALOG TRACE

GUIDELINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	5.88	32.63	0	25.72	228.1	.00	.00	1471.
10	5.89	32.63	10	25.72	228.3	.23	.01	1472.
20	5.89	32.63	20	25.72	228.4	.46	.05	1472.
30	5.88	32.63	30	25.72	228.5	.69	.10	1472.
40	5.87	32.63	40	25.72	228.4	.91	.19	1472.
50	5.67	32.63	50	25.75	226.3	1.14	.29	1471.
60	5.59	32.64	60	25.76	224.7	1.37	.42	1471.
70	5.50	32.64	70	25.77	223.8	1.59	.57	1471.
80	5.48	32.64	79	25.78	223.5	1.81	.74	1471.
90	5.43	32.65	89	25.79	222.4	2.04	.93	1471.
100	5.32	32.67	99	25.82	219.5	2.26	1.14	1471.
110	4.96	32.87	109	26.02	201.0	2.47	1.37	1470.
120	4.48	33.10	119	26.25	178.8	2.66	1.59	1468.
130	4.40	33.24	129	26.37	167.5	2.84	1.81	1468.
140	4.37	33.38	139	26.48	156.8	3.00	2.04	1469.
150	4.71	33.58	149	26.61	145.5	3.15	2.26	1470.
160	4.47	33.63	159	26.67	139.2	3.29	2.49	1470.
170	4.54	33.72	169	26.74	133.4	3.43	2.72	1470.
180	4.59	33.78	179	26.78	129.5	3.56	2.95	1471.
190	4.57	33.80	189	26.80	127.7	3.69	3.19	1471.
200	4.51	33.82	199	26.82	125.9	3.81	3.44	1471.
210	4.44	33.84	209	26.84	123.9	3.94	3.70	1471.
220	4.42	33.85	218	26.85	122.8	4.06	3.97	1471.
230	4.35	33.86	228	26.86	121.8	4.18	4.26	1471.
240	4.31	33.87	238	26.88	120.4	4.31	4.55	1471.
250	4.26	33.88	248	26.89	119.2	4.43	4.84	1471.
260	4.20	33.88	258	26.90	118.6	4.54	5.15	1470.
270	4.18	33.89	268	26.91	117.7	4.66	5.47	1471.
280	4.13	33.89	278	26.91	117.2	4.78	5.80	1470.
290	4.10	33.90	288	26.93	116.1	4.90	6.14	1471.
300	4.07	33.92	298	26.94	114.6	5.01	6.49	1471.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 13

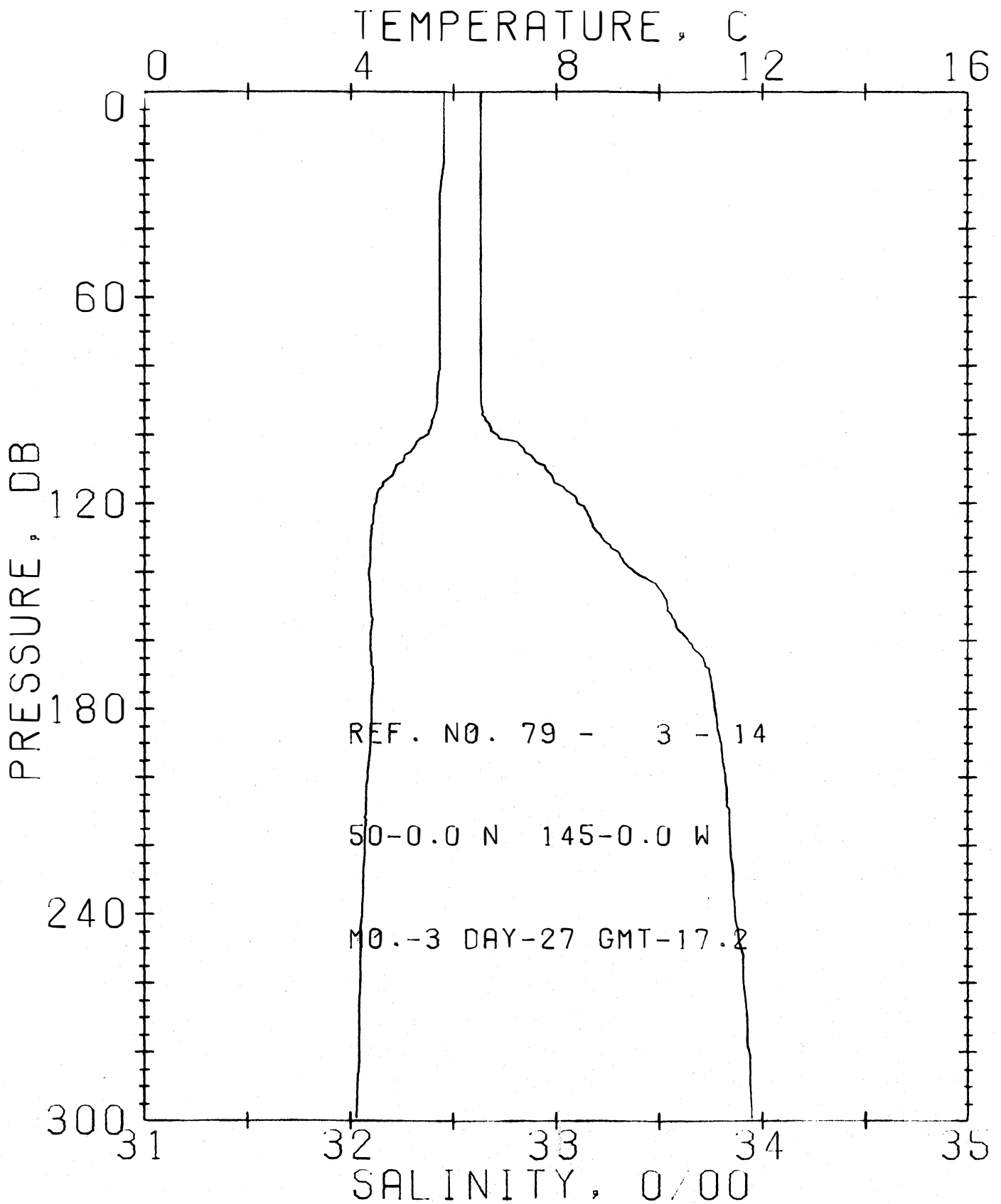
DATE 26/ 3/79

POSITION 50- .0N, 145- .0W GMT 21.0 STATION P

RESULTS OF STP CAST 203 POINTS TAKEN FROM ANALOG TRACE

GUIDELINE WAS USED, PRESSURES ARE

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	5.88	32.63	0	25.72	228.1	.00	.00	1471.
10	5.89	32.63	10	25.72	228.3	.23	.01	1472.
20	5.89	32.63	20	25.72	228.4	.46	.05	1472.
30	5.88	32.63	30	25.72	228.5	.69	.10	1472.
50	5.67	32.63	50	25.75	226.3	1.14	.29	1471.
75	5.49	32.64	75	25.78	223.7	1.70	.65	1471.
100	5.32	32.67	99	25.82	219.5	2.26	1.14	1471.
125	4.42	33.15	124	26.30	174.4	2.75	1.70	1468.
150	4.71	33.58	149	26.61	145.5	3.15	2.26	1470.
175	4.60	33.77	174	26.77	130.3	3.49	2.83	1471.
200	4.51	33.82	199	26.82	125.9	3.81	3.44	1471.
225	4.37	33.85	223	26.86	122.4	4.12	4.11	1471.
250	4.26	33.88	248	26.89	119.2	4.43	4.84	1471.
300	4.07	33.92	298	26.94	114.6	5.01	6.49	1471.
400	3.93	34.00		27.02	107.9	6.13	10.47	1472.
500	3.75	34.10	496	27.12	99.2	7.17	15.22	1473.
600	3.57	34.18		27.20	92.4	8.12	20.58	1474.
800	3.22	34.30	793	27.33	81.0	9.85	32.86	1476.
1000	2.87	34.38	990	27.42	72.8	11.38	46.88	1478.
1200	2.60	34.44	1188	27.50	66.4	12.76	62.34	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 14

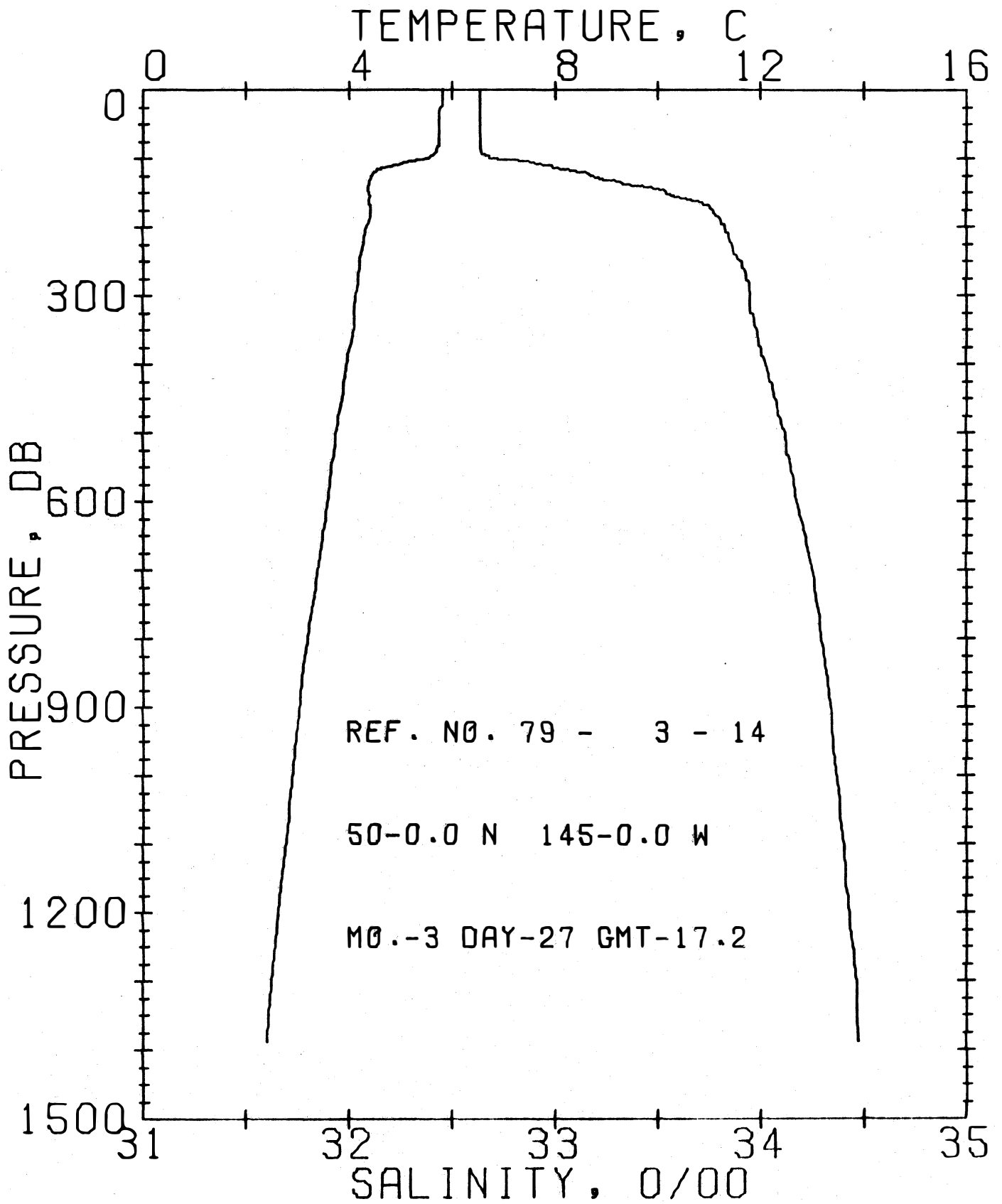
DATE 27/ 3/79

POSITION 50- .0N, 145- .0W GMT 17.2 STATION P

RESULTS OF STP CAST 125 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	5.81	32.63	0	25.73	227.3	.00	.00	1471.
10	5.81	32.63	10	25.73	227.4	.23	.01	1471.
20	5.80	32.63	20	25.73	227.4	.45	.05	1471.
30	5.73	32.63	30	25.74	226.7	.68	.10	1471.
40	5.74	32.63	40	25.74	226.9	.91	.19	1472.
50	5.73	32.63	50	25.74	226.9	1.14	.29	1472.
60	5.72	32.63	60	25.74	226.9	1.36	.42	1472.
70	5.72	32.63	70	25.74	227.0	1.59	.57	1472.
80	5.72	32.63	79	25.74	227.1	1.82	.74	1472.
90	5.67	32.63	89	25.75	226.6	2.04	.94	1472.
100	5.50	32.71	99	25.83	218.8	2.27	1.15	1472.
110	4.86	32.95	109	26.09	193.9	2.47	1.37	1469.
120	4.47	33.10	119	26.25	178.7	2.66	1.59	1468.
130	4.38	33.22	129	26.36	168.8	2.83	1.81	1468.
140	4.35	33.38	139	26.49	156.6	2.99	2.03	1468.
150	4.39	33.54	149	26.61	145.3	3.14	2.25	1469.
160	4.36	33.64	159	26.69	137.4	3.28	2.48	1469.
170	4.42	33.74	169	26.77	130.4	3.42	2.70	1470.
180	4.40	33.77	179	26.79	128.1	3.55	2.93	1470.
190	4.36	33.80	189	26.82	125.7	3.67	3.17	1470.
200	4.32	33.82	199	26.84	123.8	3.80	3.42	1470.
210	4.30	33.84	208	26.86	122.2	3.92	3.68	1470.
220	4.28	33.85	218	26.87	121.3	4.04	3.95	1470.
230	4.25	33.86	228	26.88	120.4	4.16	4.22	1470.
240	4.21	33.87	238	26.89	119.3	4.28	4.51	1470.
250	4.19	33.90	248	26.91	117.0	4.40	4.81	1470.
260	4.18	33.91	258	26.93	116.0	4.52	5.11	1470.
270	4.16	33.93	268	26.94	114.5	4.63	5.42	1470.
280	4.15	33.94	278	26.95	114.0	4.75	5.74	1471.
290	4.12	33.94	288	26.96	113.5	4.86	6.07	1471.
300	4.10	33.95	298	26.96	112.7	4.98	6.41	1471.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 14

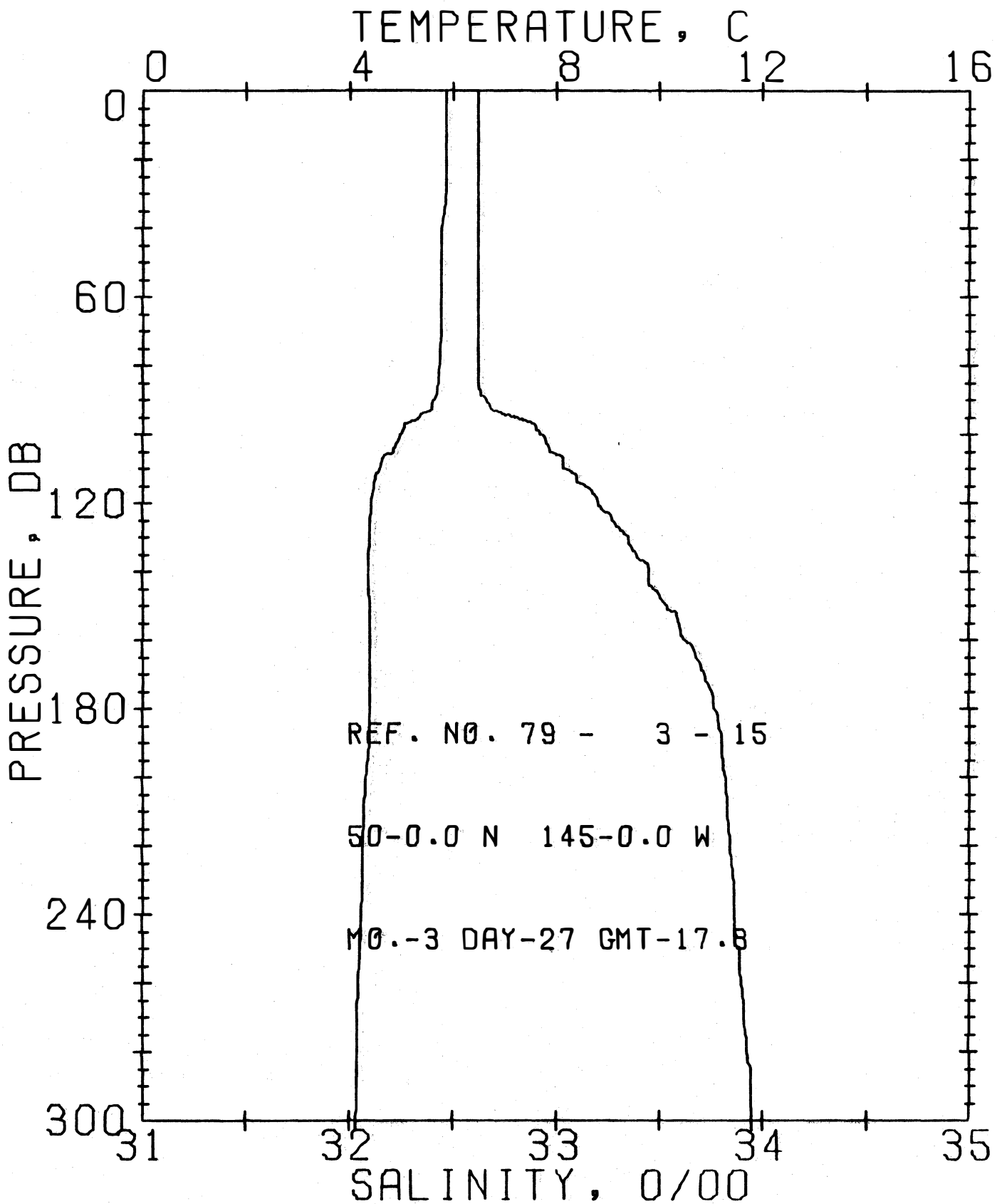
DATE 27/ 3/79

POSITION 50- .0N, 145- .0W GMT 17.2 STATION P

RESULTS OF STP CAST 209 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DLPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	5.81	32.63	0	25.73	227.3	.00	.00	1471.
10	5.81	32.63	10	25.73	227.4	.23	.01	1471.
20	5.80	32.63	20	25.73	227.4	.45	.05	1471.
30	5.73	32.63	30	25.74	226.7	.68	.10	1471.
50	5.73	32.63	50	25.74	226.9	1.14	.29	1472.
75	5.72	32.63	75	25.74	227.1	1.70	.65	1472.
100	5.50	32.71	99	25.83	218.8	2.27	1.15	1472.
125	4.43	33.16	124	26.31	173.4	2.75	1.70	1468.
150	4.39	33.54	149	26.61	145.3	3.14	2.25	1469.
175	4.41	33.76	174	26.78	129.2	3.48	2.82	1470.
200	4.32	33.82	199	26.84	123.8	3.80	3.42	1470.
225	4.26	33.85	223	26.87	120.8	4.10	4.08	1470.
250	4.19	33.90	248	26.91	117.0	4.40	4.81	1470.
300	4.10	33.95	298	26.96	112.7	4.98	6.41	1471.
400	3.94	34.02	397	27.03	106.8	6.08	10.35	1472.
500	3.72	34.11	496	27.13	98.4	7.11	15.05	1473.
600	3.56	34.17	595	27.19	93.2	8.07	20.43	1474.
800	3.18	34.29	793	27.32	81.5	9.80	32.78	1475.
1000	2.90	34.37	990	27.41	74.0	11.35	46.93	1478.
1200	2.62	34.43	1188	27.48	67.8	12.77	62.80	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 15

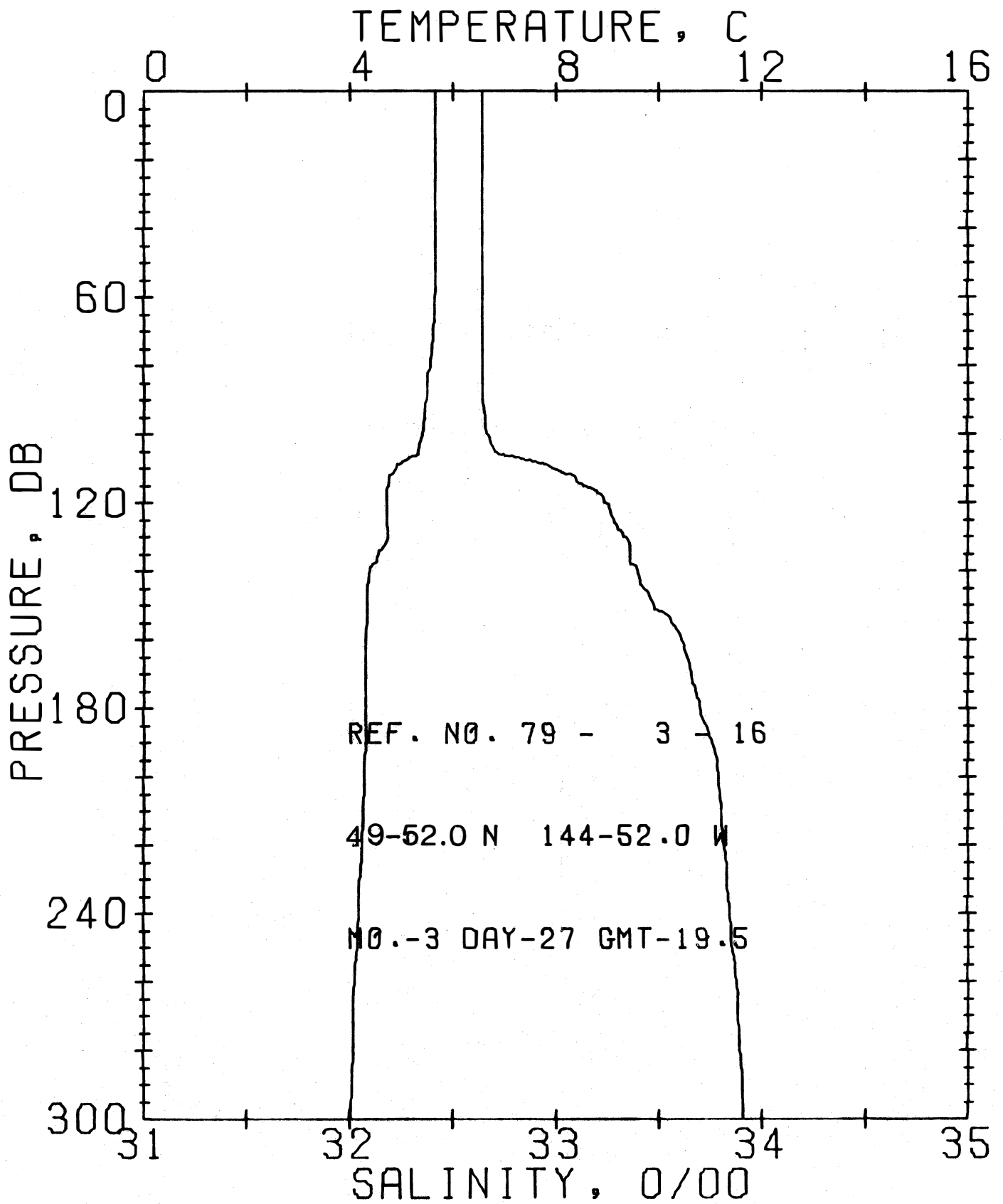
DATE 27/ 3/79

POSITION 50- .0N, 145- .0W GMT 17.8 STATION P

RESULTS OF STP CAST 139 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	5.87	32.62	0	25.71	228.7	.00	.00	1471.
10	5.88	32.62	10	25.71	228.9	.23	.01	1472.
20	5.86	32.62	20	25.72	228.8	.46	.05	1472.
30	5.85	32.62	30	25.72	228.8	.69	.10	1472.
40	5.77	32.62	40	25.73	228.0	.92	.19	1472.
50	5.75	32.62	50	25.73	227.9	1.14	.29	1472.
60		32.62	60	25.73	228.0	1.37	.42	1472.
70	5.75	32.62	70	25.73	228.1	1.60	.57	1472.
80	5.71	32.62	79	25.73	227.7	1.83	.74	1472.
90	5.61	32.65	89	25.77	224.5	2.05	.94	1472.
100	4.97	32.92	99	26.06	197.2	2.27	1.15	1470.
110	4.56	33.03	109	26.19	184.7	2.46	1.35	1468.
120	4.41	33.19	119	26.33	170.9	2.63	1.56	1468.
130	4.36	33.35	129	26.46	158.9	2.80	1.77	1468.
140	4.37	33.45	139	26.54	151.5	2.95	1.98	1469.
150	4.39	33.53	149	26.60	146.2	3.10	2.20	1469.
160	4.39	33.61	159	26.66	139.9	3.24	2.43	1469.
170	4.40	33.71	169	26.74	132.6	3.38	2.65	1470.
180	4.39	33.76	179	26.78	128.9	3.51	2.89	1470.
190	4.37	33.80	189	26.82	125.7	3.64	3.12	1470.
200	4.30	33.82	199	26.84	123.9	3.76	3.37	1470.
210	4.27	33.83	208	26.85	122.6	3.89	3.63	1470.
220	4.25	33.84	218	26.86	121.8	4.01	3.90	1470.
230	4.23	33.86	228	26.88	120.5	4.13	4.18	1470.
240	4.22	33.86	238	26.88	120.0	4.25	4.46	1470.
250	4.19	33.89	248	26.91	117.7	4.37	4.76	1470.
260	4.16	33.89	258	26.91	117.1	4.49	5.07	1470.
270	4.16	33.91	268	26.93	116.1	4.60	5.38	1470.
280	4.16	33.92	278	26.93	115.4	4.72	5.71	1471.
290	4.13	33.94	288	26.95	113.7	4.83	6.04	1471.
300	4.11	33.95	298	26.96	113.0	4.95	6.38	1471.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 16

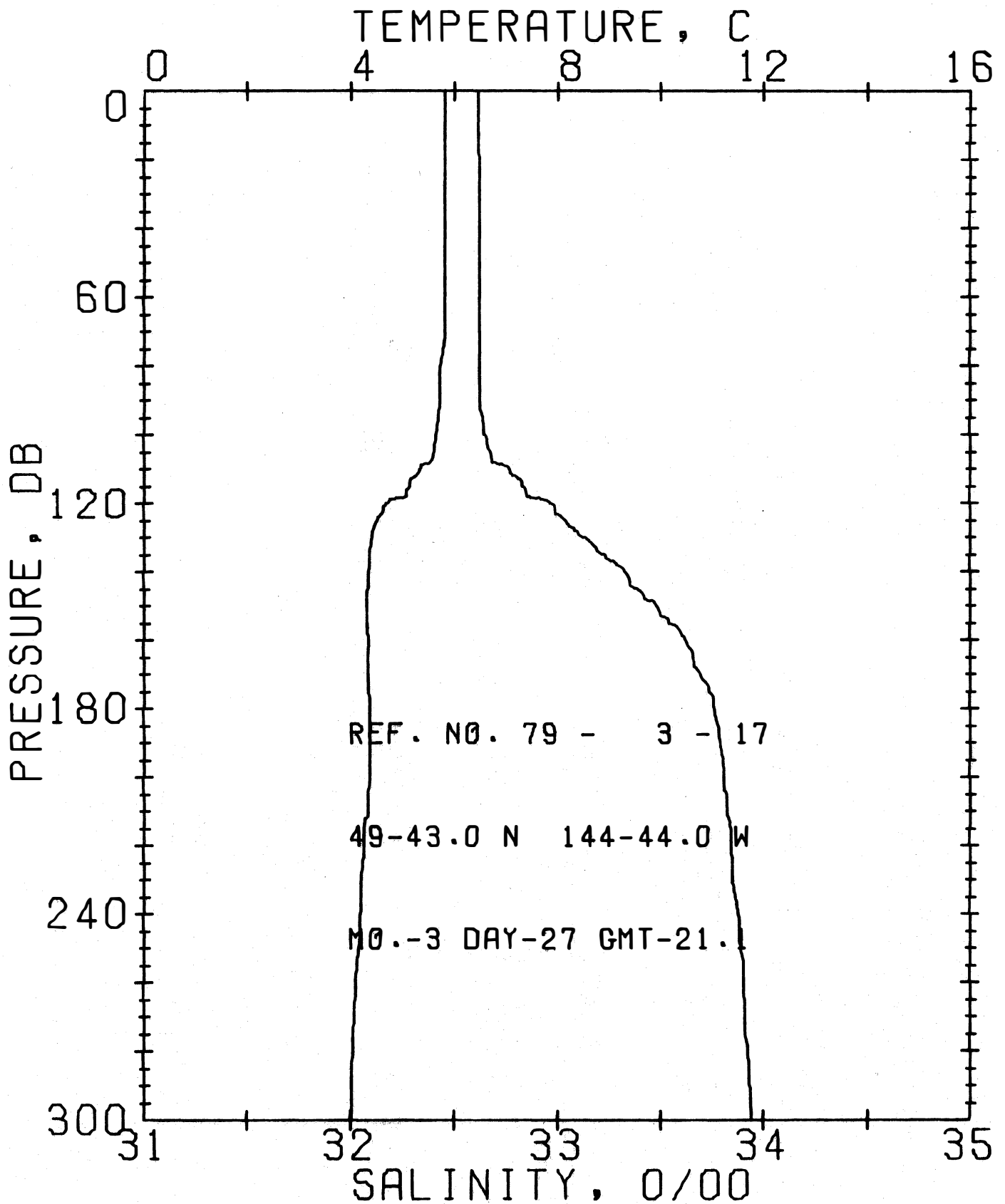
DATE 27/ 3/79

POSITION .0N, 144-52.0W GMT 19.5 STATION E3

RESULTS OF STP CAST 108 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	5.66	32.64	0	25.76	224.8	.00	.00	1471.
10	5.66	32.64	10	25.76	225.0	.22	.01	1471.
20	5.66	32.64	20	25.76	225.1	.45	.05	1471.
30	5.66	32.64	30	25.76	225.2	.68	.10	1471.
40	5.66	32.64	40	25.76	225.3	.90	.18	1471.
50	5.66	32.64	50	25.76	225.4	1.13	.29	1471.
60	5.64	32.64	60	25.76	225.2	1.35	.41	1471.
70	5.60	32.64	70	25.76	224.9	1.58	.56	1471.
80	5.55	32.64	79	25.77	224.4	1.80	.73	1471.
90	5.46	32.64	89	25.78	223.5	2.02	.93	1471.
100	5.39	32.66	99	25.80	221.3	2.25	1.14	1471.
110	4.87	32.98	109	26.11	191.8	2.46	1.37	1470.
120	4.71	33.23	119	26.33	171.4	2.64	1.58	1469.
130	4.76	33.33	129	26.40	164.6	2.81	1.79	1470.
140	4.36	33.39	139	26.50	155.7	2.97	2.01	1469.
150	4.31	33.47	149	26.56	149.4	3.12	2.24	1469.
160	4.30	33.61	159	26.67	139.3	3.26	2.47	1469.
170	4.30	33.65	169	26.71	136.1	3.40	2.70	1469.
180	4.30	33.69	179	26.74	132.8	3.53	2.94	1469.
190	4.30	33.75	189	26.78	128.8	3.67	3.18	1470.
200	4.27	33.79	199	26.82	125.7	3.79	3.44	1470.
210	4.24	33.80	208	26.83	124.5	3.92	3.70	1470.
220	4.22	33.81	218	26.84	123.5	4.04	3.97	1470.
230	4.18	33.83	228	26.86	121.9	4.16	4.25	1470.
240	4.15	33.84	238	26.87	120.8	4.29	4.54	1470.
250	4.11	33.85	248	26.89	119.6	4.41	4.84	1470.
260	4.06	33.87	258	26.91	117.7	4.52	5.15	1470.
270	4.05	33.88	268	26.92	117.0	4.64	5.47	1470.
280	4.05	33.89	278	26.92		4.76	5.79	1470.
290	4.03	33.90	288	26.93	115.5	4.87	6.13	1470.
300	4.01	33.91	298	26.94	114.6	4.99	6.48	1470.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 17

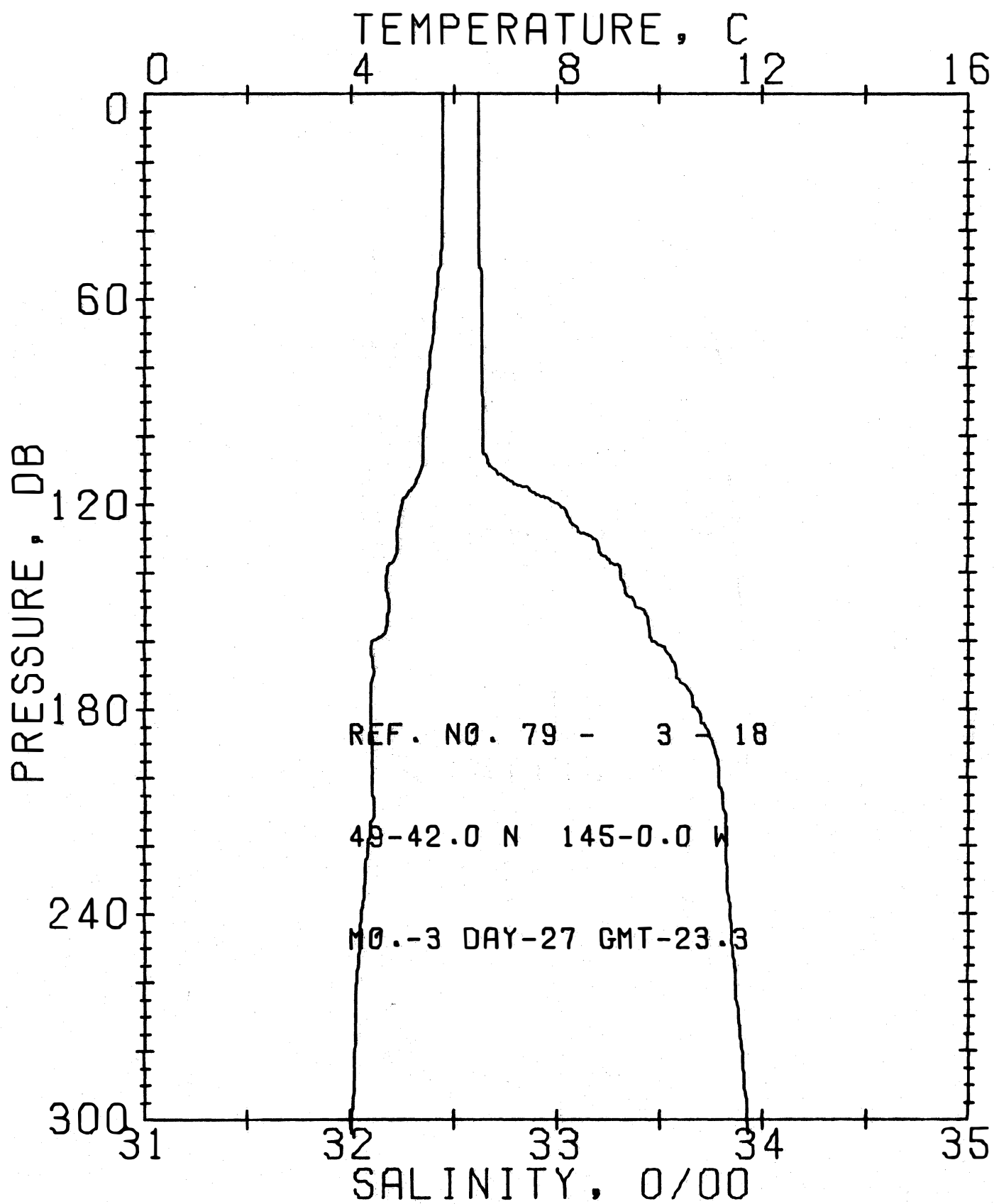
DATE 27/ 3/79

POSITION 49-43.0N, 144-44.0W GMT 21.1 STATION E4

RESULTS OF STP CAST 115 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	5.82	32.61	0	25.71	228.9	.00	.00	1471.
10	5.82	32.61	10	25.71	229.0	.23	.01	1471.
20	5.82	32.62	20	25.72	228.7	.46	.05	1472.
30	5.82	32.62	30	25.72	228.5	.69	.10	1472.
40	5.80	32.62	40	25.72	228.4	.91	.19	1472.
50	5.80	32.62	50	25.72	228.5	1.14	.29	1472.
60	5.80	32.62	60	25.72	228.6	1.37	.42	1472.
70	5.80	32.62	70	25.72	228.7	1.60	.57	1472.
80	5.72	32.62	79	25.73	227.8	1.83	.75	1472.
90	5.70	32.62	89	25.73	227.7	2.06	.94	1472.
100	5.64	32.64	99	25.76	225.7	2.28	1.16	1472.
110	5.32	32.76	109	25.89	213.2	2.51	1.40	1471.
120	4.67	32.96	119	26.12	191.2	2.71	1.64	1469.
130	4.38	33.12	129	26.28	176.0	2.89	1.87	1468.
140	4.32	33.32	139	26.44	160.8	3.06	2.11	1468.
150	4.31	33.48	149	26.57	148.8	3.22	2.34	1469.
160	4.34	33.61	159	26.67	139.4	3.36	2.56	1469.
170	4.34	33.68	169	26.73	134.3	3.50	2.79	1469.
180	4.38	33.76	179	26.78	129.1	3.63	3.03	1470.
190	4.37	33.79	189	26.81	126.8	3.76	3.27	1470.
200	4.36	33.81	199	26.83	125.0	3.88	3.52	1470.
210	4.31	33.82	209	26.84	123.8	4.01	3.78	1470.
220	4.25	33.84	218	26.86	121.7	4.13	4.05	1470.
230	4.19	33.85	228	26.88	120.5	4.25	4.32	1470.
240	4.17	33.88	238	26.90	118.5	4.37	4.61	1470.
250	4.13	33.89	248	26.91	117.3	4.49	4.90	1470.
260	4.08	33.90	258	26.93	115.9	4.61	5.21	1470.
270	4.06	33.91	268	26.94	114.9	4.72	5.52	1470.
280	4.02	33.92	278	26.95	113.8	4.84	5.84	1470.
290	4.01	33.93	288	26.96	112.9	4.95	6.17	1470.
300	3.99	33.94	298	26.97	112.3	5.06	6.51	1470.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 18

DATE 27/ 3/79

POSITION 49-42.0N, 145- .0W

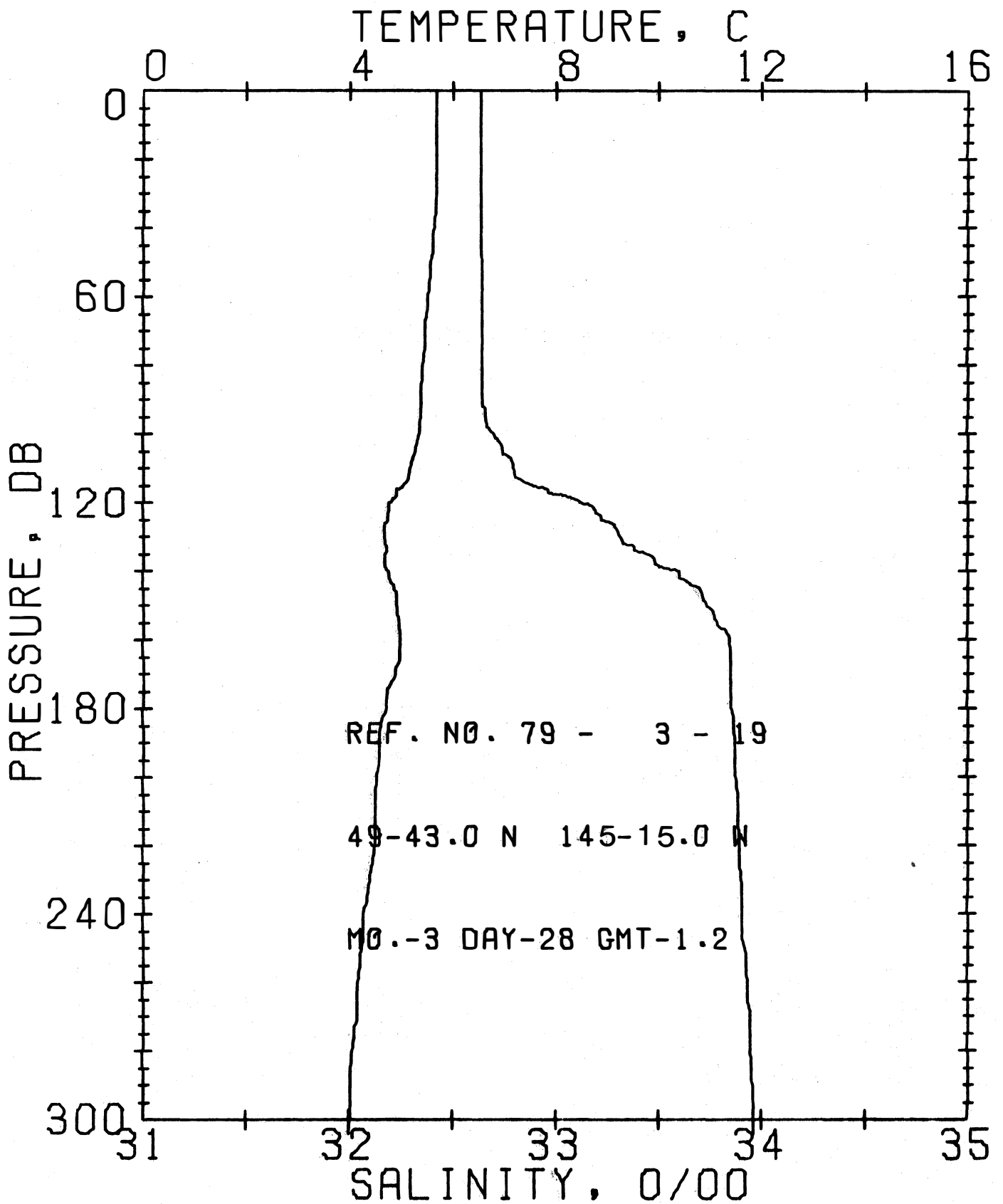
GMT 23.3

STATION C1

RESULTS OF STP CAST 142 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	5.79	32.62	0	25.72	227.8	.00	.00	1471.
10	5.79	32.62	10	25.72	227.9	.23	.01	1471.
20	5.78	32.62	20	25.73	227.9	.46	.05	1471.
30	5.77	32.62	30	25.73	227.9	.68	.10	1471.
40	5.76	32.62	40	25.73	227.9	.91	.19	1472.
50	5.73	32.62	50	25.73	227.7	1.14	.29	1472.
60	5.64	32.63	60	25.75	226.0	1.37	.42	1471.
70	5.59	32.63	70	25.76	225.5	1.59	.57	1471.
80	5.50	32.63	79	25.77	224.6	1.82	.74	1471.
90	5.43	32.64	89	25.78	223.2	2.04	.93	1471.
100	5.40	32.64	99	25.79	222.9	2.26	1.15	1471.
110	5.34	32.69	109	25.83	218.6	2.49	1.39	1471.
120	4.97	32.99	119	26.11	191.8	2.69	1.63	1470.
130	4.90	33.17	129	26.26	178.0	2.88	1.86	1470.
140	4.69	33.31	139	26.39	165.4	3.05	2.10	1470.
150	4.75	33.38	149	26.44	160.9	3.21	2.34	1470.
160	4.39	33.46	159	26.55	151.2	3.37	2.59	1469.
170	4.43	33.58	169	26.64	142.6	3.51	2.83	1470.
180	4.38	33.68	179	26.72	134.8	3.65	3.08	1470.
190	4.43	33.75	189	26.77	130.1	3.78	3.33	1470.
200	4.41	33.79	199	26.80	127.0	3.91	3.58	1470.
210	4.45	33.82	209	26.82	125.7	4.04	3.85	1471.
220	4.33	33.82	218	26.84	124.1	4.16	4.12	1470.
230	4.26	33.83	228	26.85	122.7	4.29	4.40	1470.
240	4.19	33.84	238	26.87	121.3	4.41	4.70	1470.
250	4.15	33.85	248	26.88	120.0	4.53	5.00	1470.
260	4.10	33.87	258	26.90	118.3	4.65	5.31	1470.
270	4.08	33.88	268	26.91	117.4	4.77	5.63	1470.
280	4.07	33.90	278	26.93	116.1	4.88	5.95	1470.
290	4.04	33.91	288	26.94	115.0	5.00	6.29	1470.
300	4.01	33.92	298	26.95	113.8	5.11	6.63	1470.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 19

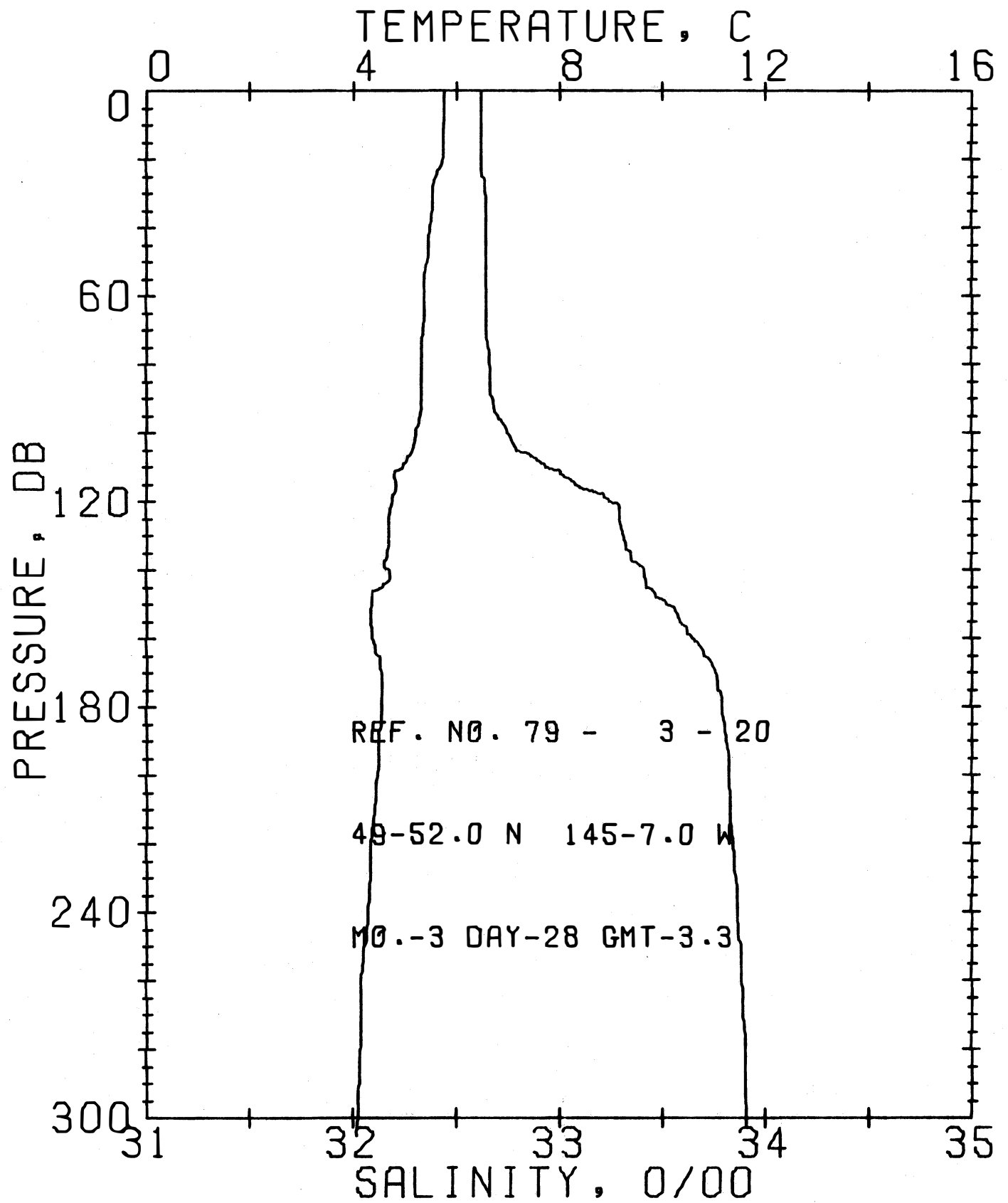
DATE 28/ 3/79

POSITION 49-43.0N, .0W GMT 1.2 STATION

RESULTS OF STP CAST 134 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	5.67	32.63	0	25.75	225.7	.00	.00	1471.
10	5.67	32.63	10	25.75	225.8	.23	.01	1471.
20	5.67	32.63	20	25.75	225.9	.45	.05	1471.
30	5.67	32.63	30	25.75	226.0	.68	.10	1471.
40	5.63	32.63	40	25.75	225.7	.90	.18	1471.
50	5.55	32.64	50	25.77	224.1	1.13	.29	1471.
60	5.49	32.64	60	25.78	223.5	1.35	.41	1471.
70	5.45	32.64	70	25.78	223.2	1.58	.56	1471.
80	5.39	32.64	79	25.79	222.6	1.80	.73	1471.
90	5.36	32.64	89	25.79	222.4	2.02	.92	1471.
100	5.31	32.68	99	25.83	218.6	2.24	1.14	1471.
110	5.15	32.79	109	25.93	209.0	2.46	1.37	1470.
120	4.76	33.11	119	26.23	180.9	2.66	1.60	1469.
130	4.69	33.31	129	26.39	165.5	2.83	1.82	1470.
140	4.74	33.59	139	26.61	145.0	2.98	2.03	1470.
150	4.92	33.73	149	26.70	136.8	3.12	2.24	1471.
160	4.99	33.84	159	26.78	129.2	3.26	2.45	1472.
170	4.87	33.85	169	26.80	127.2	3.39	2.67	1472.
180	4.69	33.85	179	26.82	125.4	3.51	2.89	1471.
190	4.56	33.87	189	26.85	122.5	3.63	3.12	1471.
200	4.52	33.87	199	26.86	122.1	3.76	3.37	1471.
210	4.48	33.88	209	26.87	121.2	3.88	3.62	1471.
220	4.46	33.89	218	26.88	120.2	4.00	3.89	1471.
230	4.37	33.90	228	26.89	118.9	4.12	4.16	1471.
240	4.25	33.90	238	26.91	117.5	4.24	4.44	1470.
250	4.22	33.91	248	26.92	116.3	4.35	4.74	1470.
260	4.15	33.93	258	26.94	114.5	4.47	5.04	1470.
270	4.14	33.94	268	26.95	113.6	4.58	5.34	1470.
280	4.04	33.94	278	26.96	112.4	4.70	5.66	1470.
290	4.00	33.95	288	26.98	111.3	4.81	5.99	1470.
300	3.98	33.96	298	26.98	110.7	4.92	6.32	1470.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 20

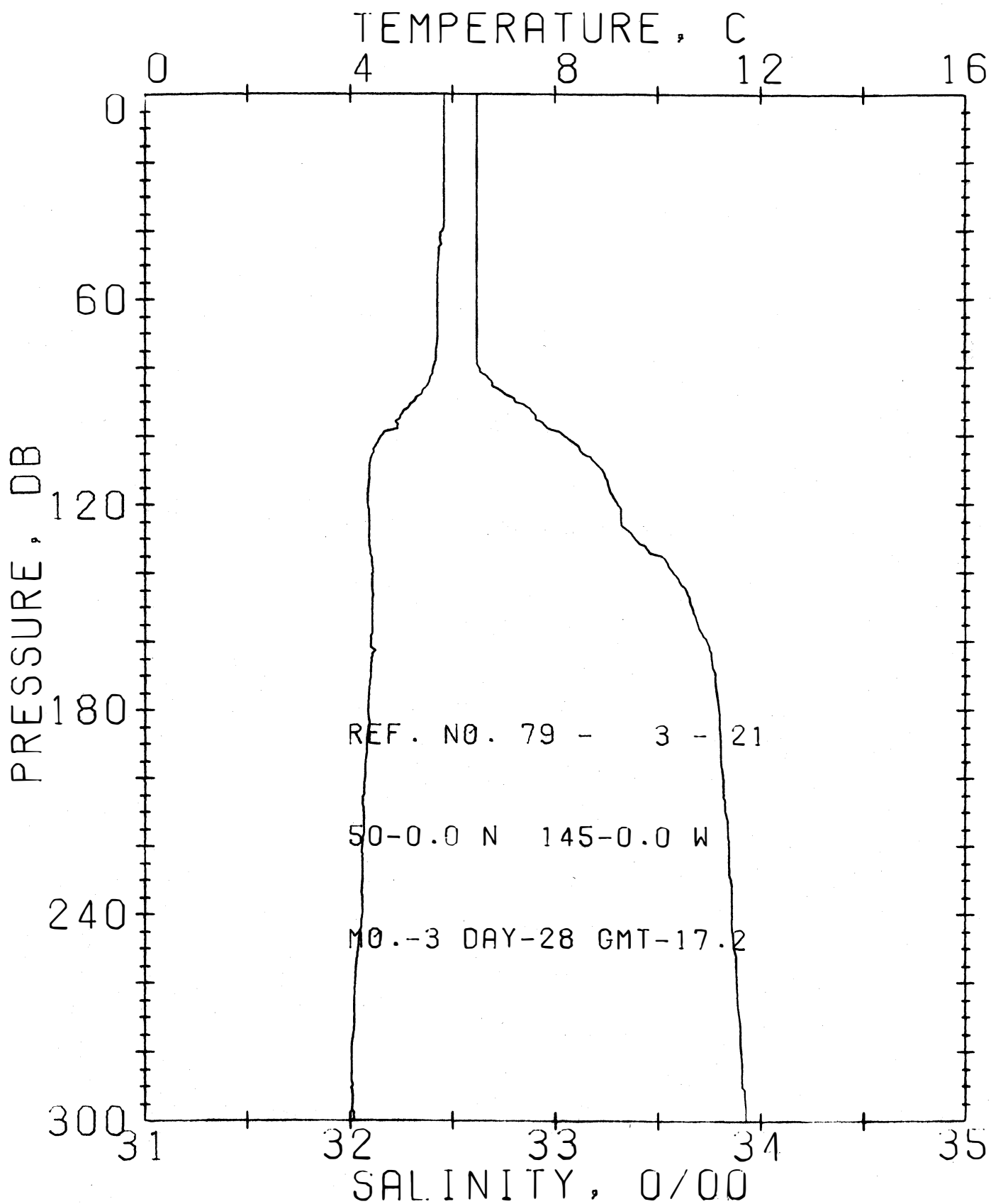
DATE 28/ 3/79

POSITION 49-52.0N, 145- 7.0W GMT 3.3 STATION

RESULTS OF STP CAST 141 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	5.76	32.62	0	25.73	227.5	.00	.00	1471.
10	5.74	32.62	10	25.73	227.4	.23	.01	1471.
20	5.71	32.62	20	25.73	227.1	.45	.05	1471.
30	5.53	32.63	30	25.77	224.1	.68	.10	1471.
40	5.46	32.64	40	25.78	223.1	.90	.18	1470.
50	5.42	32.64	50	25.78	222.7	1.13	.29	1470.
60	5.37	32.64	60	25.79	222.2	1.35	.41	1470.
70	5.33	32.64	70	25.79	221.9	1.57	.56	1470.
80	5.30	32.65	79	25.81	220.6	1.79	.73	1470.
90	5.30	32.66	89	25.82	219.9	2.01	.92	1471.
100	5.20	32.74	99	25.89	213.2	2.23	1.13	1470.
110	4.93	32.93	109	26.07	196.2	2.44	1.35	1470.
120	4.74	33.24	119	26.33	171.0	2.62	1.56	1470.
130	4.68	33.31	129	26.39	165.5	2.79	1.78	1470.
140	4.69	33.41	139	26.47	157.9	2.95	2.00	1470.
150	4.34	33.52	149	26.60	146.1	3.10	2.23	1469.
160	4.38	33.64	159	26.69	137.6	3.24	2.45	1469.
170	4.57	33.75	169	26.76	131.4	3.38	2.67	1470.
180	4.55	33.79	179	26.79	128.3	3.51	2.91	1470.
190	4.47	33.81	189	26.81	126.1	3.63	3.15	1470.
200	4.45	33.82	199	26.82	125.2	3.76	3.39	1470.
210	4.39	33.83	208	26.84	123.9	3.88	3.66	1470.
220	4.33	33.84	218	26.85	122.6	4.01	3.93	1470.
230	4.30	33.85	228	26.87	121.4	4.13	4.21	1470.
240	4.27	33.86	238	26.88	120.6	4.25	4.49	1470.
250	4.20	33.88	248	26.90	118.5	4.37	4.79	1470.
260	4.14	33.88	258	26.91	117.7	4.49	5.10	1470.
270	4.13	33.89	268	26.91	117.2	4.61	5.42	1470.
280	4.11	33.90	278	26.92	116.3	4.72	5.75	1470.
290	4.10	33.90	288	26.92	116.3	4.84	6.08	1471.
300	4.08	33.91	298	26.93	115.4	4.95	6.43	1471.



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REFERENCE NO. 79- 3- 21

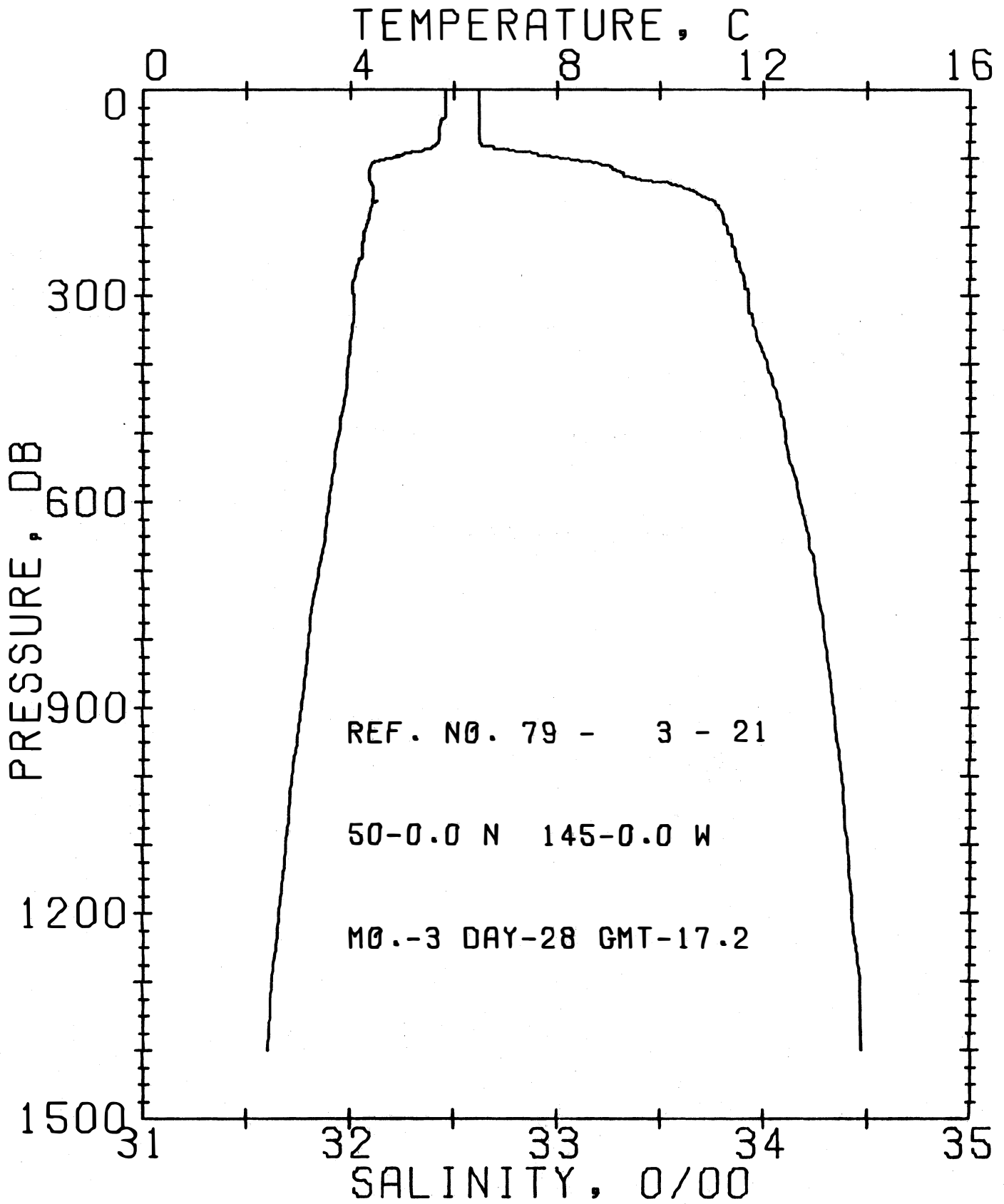
DATE 28/ 3/79

POSITION 50- .0N, 145- .0W GMT 17.2 STATION P

RESULTS OF STP CAST 143 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	5.84	32.62	0	25.72	228.4	.00	.00	1471.
10	5.84	32.62	10	25.72	228.5	.23	.01	1471.
20	5.84	32.62	20	25.72	228.6	.46	.05	1472.
30	5.84	32.62	30	25.72	228.7	.69	.10	1472.
40	5.82	32.62	40	25.72	228.6	.91	.19	1472.
50	5.72	32.62	50	25.73	227.5	1.14	.29	1472.
60	5.70	32.62	60	25.73	227.5	1.37	.42	1472.
70	5.70	32.62	70	25.73	227.5	1.60	.57	1472.
80	5.64	32.63	79	25.75	226.2	1.82	.74	1472.
90	5.26	32.81	89	25.94	208.6	2.04	.93	1471.
100	4.62	33.05	99	26.19	184.2	2.24	1.12	1468.
110	4.38	33.23	109	26.36	167.9	2.42	1.31	1468.
120	4.34	33.31	119	26.43	161.6	2.58	1.50	1468.
130	4.36	33.39	129	26.50	155.5	2.74	1.71	1468.
140	4.45	33.58	139	26.63	142.6	2.89	1.91	1469.
150	4.42	33.66	149	26.70	136.0	3.03	2.12	1469.
160	4.40	33.74	159	26.76	130.6	3.16	2.33	1469.
170	4.39	33.78	169	26.80	127.3	3.29	2.54	1470.
180	4.35	33.80	179	26.82	125.7	3.42	2.77	1470.
190	4.32	33.81	189	26.83	124.5	3.54	3.01	1470.
200	4.29	33.82	199	26.84	123.5	3.67	3.25	1470.
210	4.28	33.83	208	26.85	122.5	3.79	3.51	1470.
220	4.24	33.85	218	26.87	120.9	3.91	3.78	1470.
230	4.24	33.86	228	26.88	120.6	4.03	4.05	1470.
240	4.23	33.86	238	26.88	120.2	4.15	4.34	1470.
250	4.14	33.87	248	26.90	118.4	4.27	4.64	1470.
260	4.10	33.88	258	26.91	117.2	4.39	4.95	1470.
270	4.09	33.90	268	26.92	116.4	4.51	5.26	1470.
280	4.03	33.90	278	26.93	115.2	4.62	5.59	1470.
290	4.05	33.91	288	26.94	115.1	4.74	5.92	1470.
300	4.06	33.93	298	26.95	113.8	4.85	6.26	1471.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 21

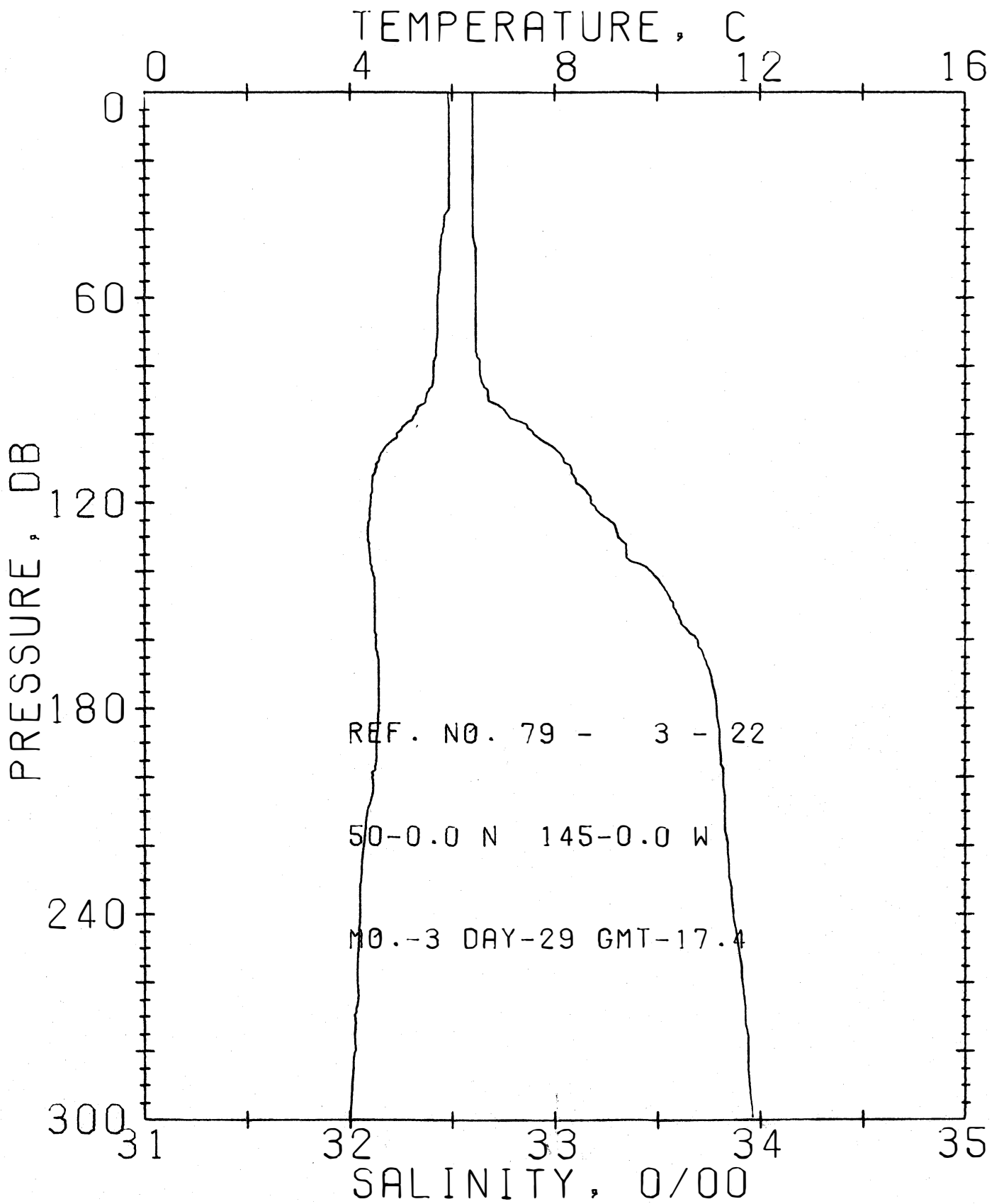
DATE 28/ 3/79

POSITION 50- .0N, 145- .0W GMT 17.2 STATION P

RESULTS OF STP CAST 234 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	5.84	32.62	0	25.72	228.4	.00	.00	1471.
10	5.84	32.62	10	25.72	228.5	.23	.01	1471.
20	5.84	32.62	20	25.72	228.6	.46	.05	1472.
30	5.84	32.62	30	25.72	228.7	.69	.10	1472.
50	5.72	32.62	50	25.73	227.5	1.14	.29	1472.
75	5.69	32.62	75	25.74	227.5	1.71	.65	1472.
100	4.62	33.05	99	26.19	184.2	2.24	1.12	1468.
125	4.36	33.32	124	26.44	161.1	2.66	1.60	1468.
150	4.42	33.66	149	26.70	136.0	3.03	2.12	1469.
175	4.37	33.79	174	26.81	126.6	3.35	2.66	1470.
200	4.29	33.82	199	26.84	123.5	3.67	3.25	1470.
225	4.24	33.85	223	26.87	121.0	3.97	3.91	1470.
250	4.14	33.87	248	26.90	118.4	4.27	4.64	1470.
300	4.06	33.93	298	26.95	113.8	4.85	6.26	1471.
400	3.94	34.01	397	27.03	107.3	5.96	10.23	1472.
500	3.75	34.10	496	27.12	99.4	7.00	14.96	1473.
600	3.56	34.17	595	27.19	93.3	7.96	20.38	1474.
800	3.17	34.29	793	27.32	81.4	9.70	32.72	1475.
1000	2.87	34.37	990	27.42	73.1	11.25	46.87	1478.
1200	2.62	34.42	1188	27.48	68.1	12.65	62.64	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 22

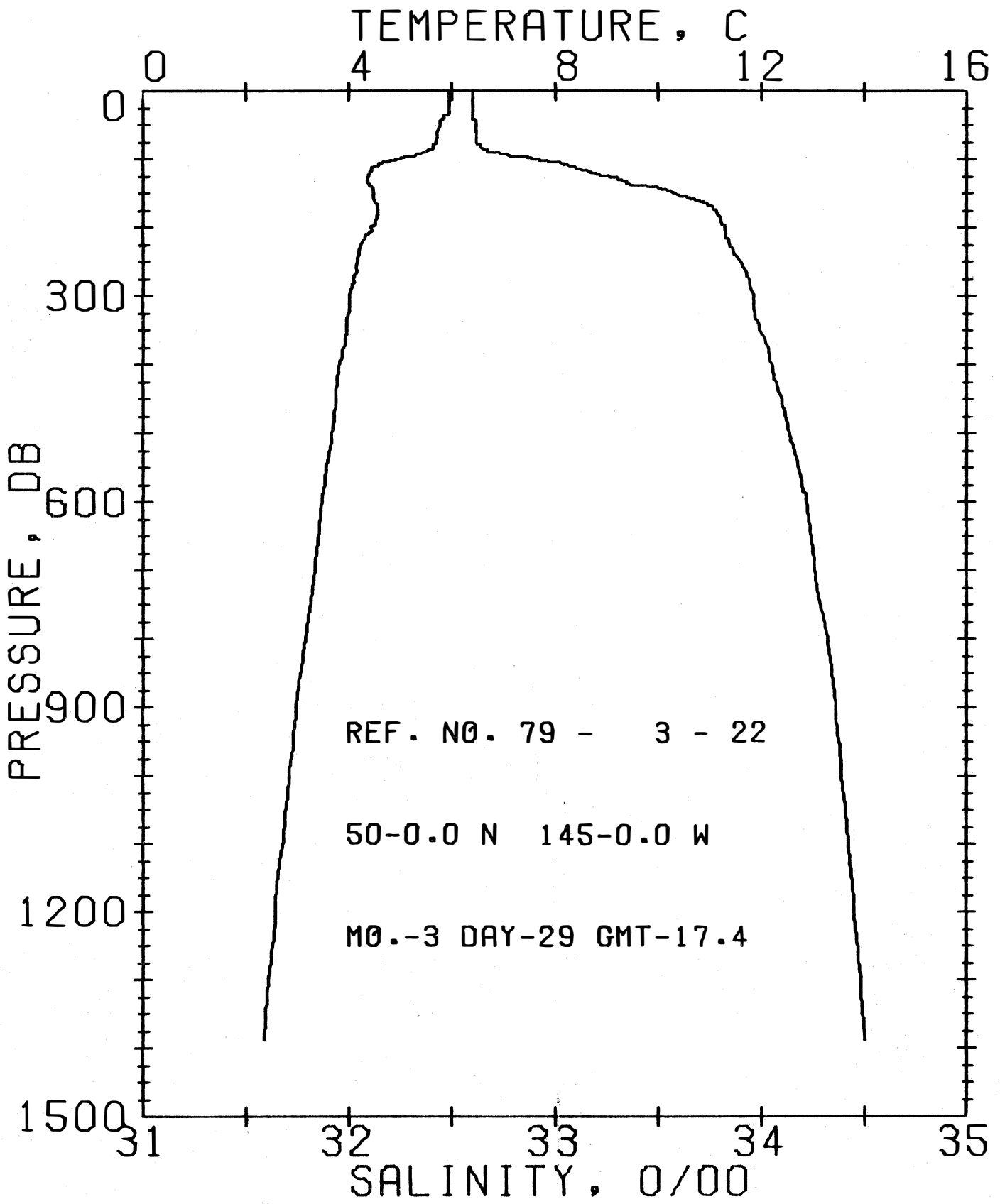
DATE 29/ 3/79

POSITION 50- .0N, 145- .0W GMT 17.4 STATION P

RESULTS OF STP CAST 149 POINTS FROM ANALOG TRACE

GUIDELINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	5.93	32.60	0	25.69	230.9	.00	.00	1472.
10	5.94	32.60	10	25.69	231.2	.23	.01	1472.
20	5.94	32.60	20	25.69	231.3	.46	.05	1472.
30	5.94	32.60	30	25.69	231.4	.69	.11	1472.
40	5.82	32.60	40	25.70	230.1	.92	.19	1472.
50	5.75	32.61	50	25.72	228.6	1.15	.29	1472.
60	5.71	32.61	60	25.73	228.3	1.38	.42	1472.
70	5.70	32.61	70	25.73	228.3	1.61	.57	1472.
80	5.63	32.63	79	25.75	226.1	1.84	.75	1472.
90	5.46	32.67	89	25.80	221.3	2.06	.94	1471.
100	4.92	32.90	99	26.05	198.2	2.27	1.14	1470.
110	4.51	33.08	109	26.23	180.5	2.46	1.34	1468.
120	4.40	33.17	119	26.31	172.7	2.64	1.55	1468.
130	4.35	33.31	129	26.43	161.8	2.80	1.76	1468.
140	4.44	33.47	139	26.55	150.8	2.96	1.98	1469.
150	4.49	33.57	149	26.62	143.9	3.11	2.20	1469.
160	4.51	33.69	159	26.71	135.2	3.25	2.42	1470.
170	4.56	33.75	169	26.76	131.0	3.38	2.64	1470.
180	4.57	33.79	179	26.79	128.5	3.51	2.87	1471.
190	4.51	33.80	189	26.80	127.3	3.64	3.11	1470.
200	4.44	33.82	199	26.83	125.1	3.76	3.36	1470.
210	4.33	33.83	208	26.84	123.3	3.89	3.62	1470.
220	4.25	33.84	218	26.86	121.8	4.01	3.89	1470.
230	4.21	33.85	228	26.88	120.5	4.13	4.17	1470.
240	4.18	33.87	238	26.89	119.0	4.25	4.46	1470.
250	4.15	33.90	248	26.92	116.7	4.37	4.75	1470.
260	4.14	33.91	258	26.93	115.5	4.48	5.05	1470.
270	4.09	33.93	268	26.95	113.8	4.60	5.36	1470.
280	4.10	33.94	278	26.96	113.3	4.71	5.68	1470.
290	4.03	33.95	288	26.97	112.0	4.83	6.01	1470.
300	4.01	33.96	298	26.98	111.0	4.94	6.34	1470.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 22

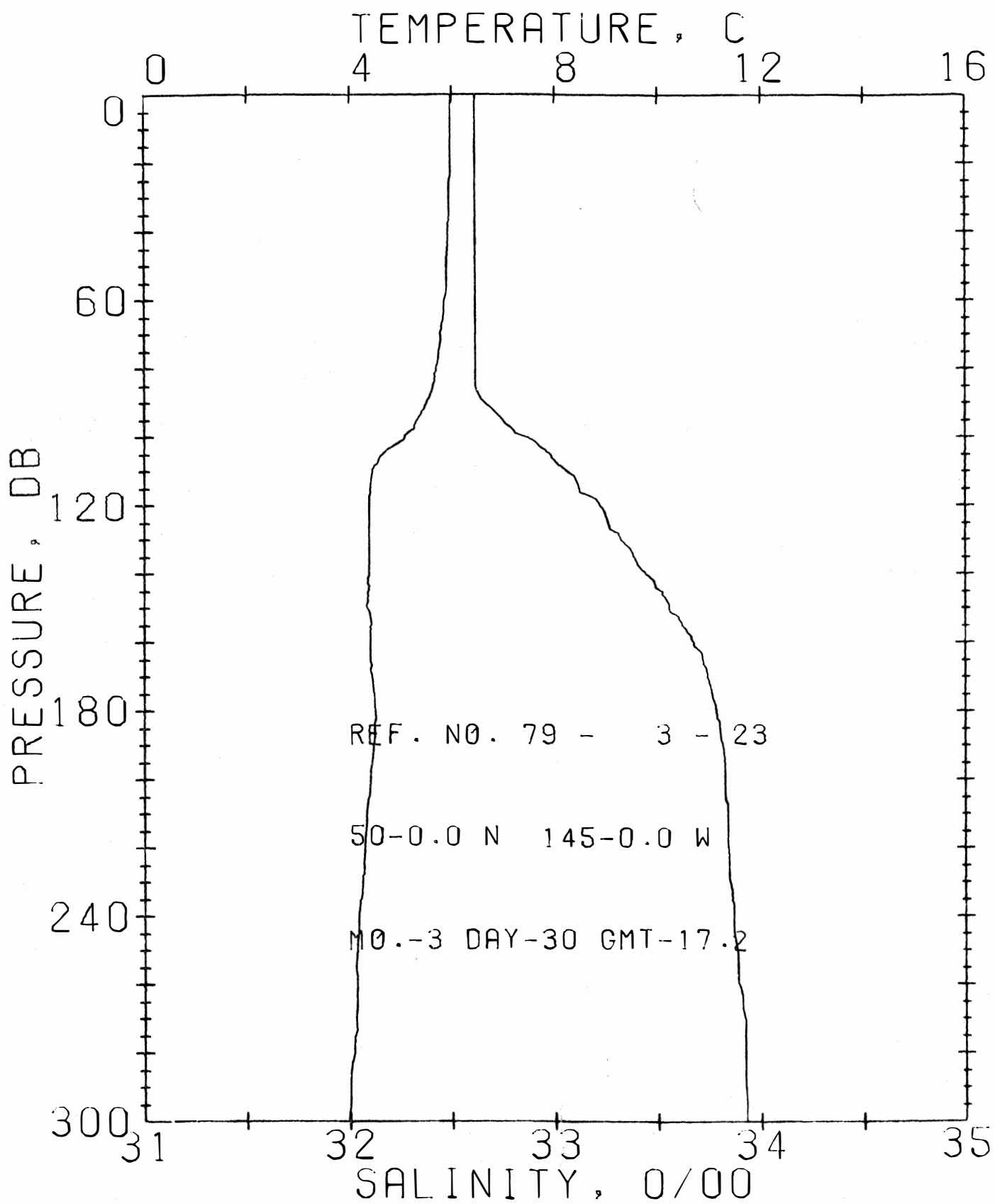
DATE 29/ 3/79

POSITION 50- .0N, 145- .0W GMT 17.4 STATION P

RESULTS OF STP CAST 226 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	5.93	32.60	0	25.69	230.9	.00	.00	1472.
10	5.94	32.60	10	25.69	231.2	.23	.01	1472.
20	5.94	32.60	20	25.69	231.3	.46	.05	1472.
30	5.94	32.60	30	25.69	231.4	.69	.11	1472.
50	5.75	32.61	50	25.72	228.6	1.15	.29	1472.
75	5.68	32.61	75	25.73	228.1	1.72	.66	1472.
100	4.92	32.90	99	26.05	198.2	2.27	1.14	1470.
125	4.36	33.27	124	26.40	164.8	2.72	1.66	1468.
150	4.49	33.57	149	26.62	143.9	3.11	2.20	1469.
175	4.57	33.78	174	26.78	129.5	3.44	2.76	1470.
200	4.44	33.82	199	26.83	125.1	3.76	3.36	1470.
225	4.22	33.85	223	26.87	120.8	4.07	4.03	1470.
250	4.15	33.90	248	26.92	116.7	4.37	4.75	1470.
300	4.01	33.96	298	26.98	111.0	4.94	6.34	1470.
400	3.80	34.05	397	27.07	103.3	6.01	10.18	1471.
500	3.66	34.13	496	27.15	96.3	7.01	14.74	1472.
600	3.46	34.21	595	27.24	88.7	7.93	19.90	1473.
800	3.15	34.32	793	27.35	78.9	9.62	31.91	1475.
1000	2.82	34.39	990	27.44	71.4	11.12	45.61	1477.
1200	2.56	34.45	1188	27.51	65.2	12.48	60.87	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 23

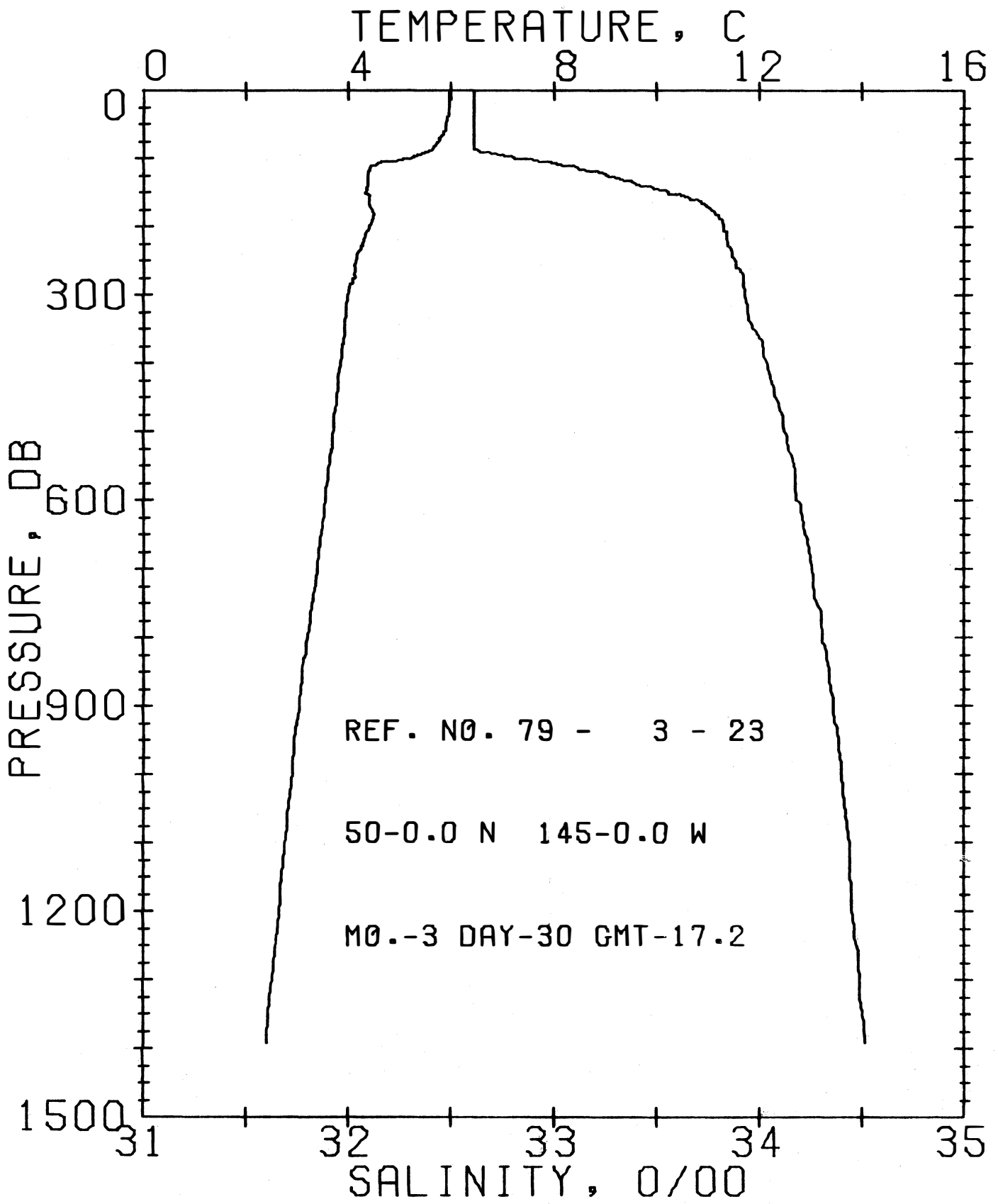
DATE 30/ 3/79

POSITION 50- .0N, 145- .0W GMT 17.2 STATION P

RESULTS OF STP CAST 138 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	5.97	32.61	0	25.69	230.6	.00	.00	1472.
10	5.97	32.61	10	25.69	230.8	.23	.01	1472.
20	5.98	32.61	20	25.69	231.0	.46	.05	1472.
30	5.95	32.61	30	25.70	230.7	.69	.11	1472.
40	5.91	32.61	40	25.70	230.4	.92	.19	1472.
50	5.90	32.61	50	25.70	230.4	1.15	.29	1472.
60	5.86	32.61	60	25.71	230.0	1.38	.42	1472.
70	5.77	32.61	70	25.72	229.1	1.61	.58	1472.
80	5.68	32.61	79	25.73	228.2	1.84	.75	1472.
90	5.50	32.66	89	25.79	222.5	2.07	.95	1471.
100	5.06	32.87	99	26.01	202.0	2.28	1.15	1470.
110	4.42	33.06	109	26.23	181.1	2.47	1.36	1468.
120	4.38	33.22	119	26.36	168.7	2.65	1.56	1468.
130	4.37	33.32	129	26.44	161.2	2.81	1.77	1468.
140	4.38	33.44	139	26.53	152.4	2.97	1.99	1469.
150	4.33	33.55	149	26.62	143.7	3.12	2.21	1469.
160	4.40	33.67	159	26.71	135.5	3.26	2.43	1469.
170	4.42	33.74	169	26.76	130.6	3.39	2.65	1470.
180	4.50	33.78	179	26.79	128.2	3.52	2.88	1470.
190	4.46	33.82	189	26.82	125.5	3.65	3.12	1470.
200	4.40	33.83	199	26.84	123.9	3.77	3.37	1470.
210	4.33	33.84	208	26.85	122.5	3.89	3.62	1470.
220	4.29	33.84	218	26.86	122.0	4.02	3.89	1470.
230	4.24	33.85	228	26.87	120.8	4.14	4.17	1470.
240	4.18	33.87	238	26.89	118.9	4.26	4.46	1470.
250	4.12	33.88	248	26.91	117.4	4.38	4.75	1470.
260	4.12	33.89	258	26.92	116.7	4.49	5.06	1470.
270	4.11	33.92	268	26.94	114.8	4.61	5.37	1470.
280	4.08	33.92	278	26.94	114.5	4.72	5.69	1470.
290	4.00	33.92	288	26.95	113.6	4.84	6.02	1470.
300	3.97	33.93	298	26.96	112.8	4.95	6.36	1470.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 23

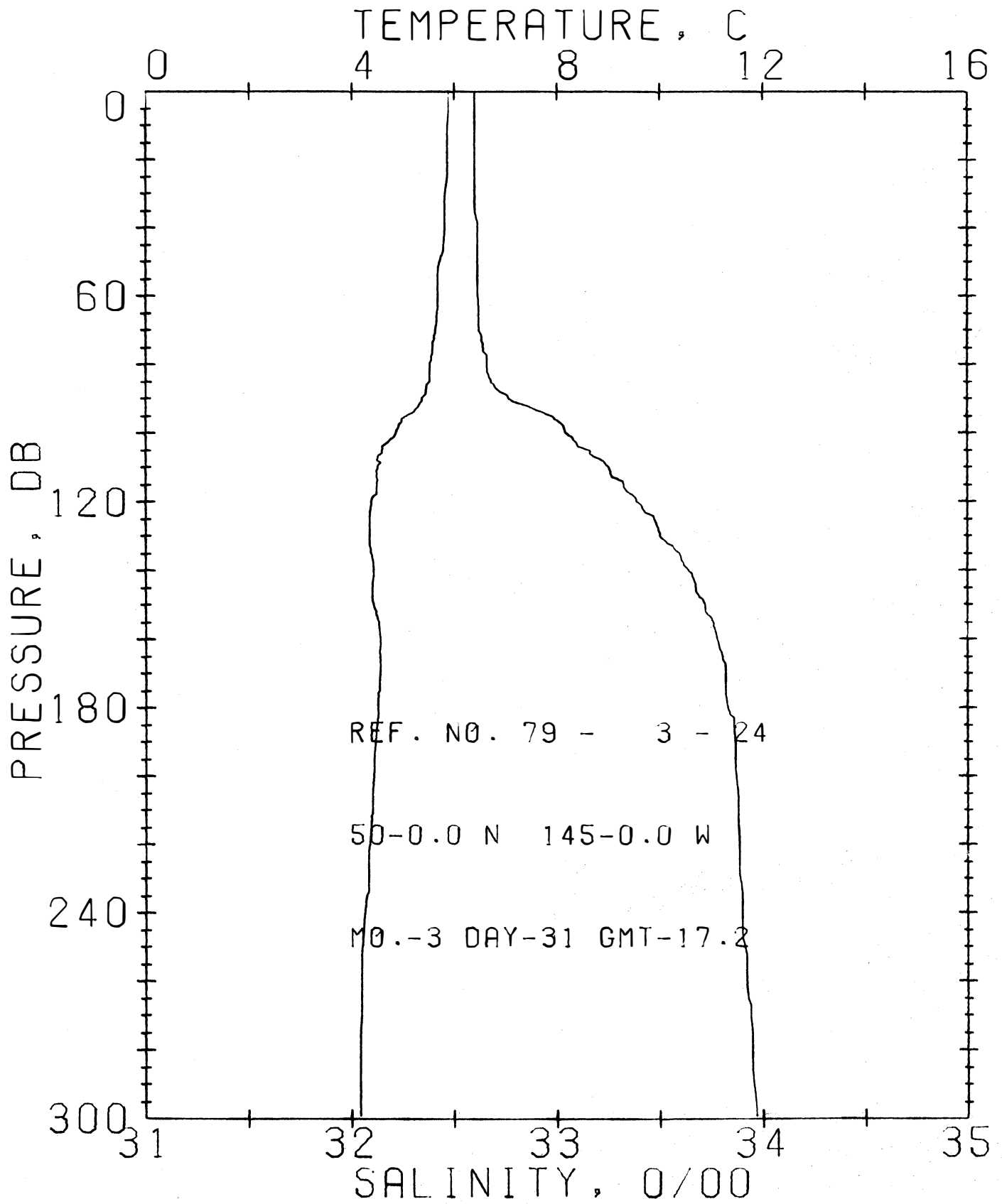
DATE 30/ 3/79

POSITION 50- .0N, 145- .0W GMT 17.2 STATION P

RESULTS OF STP CAST 236 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	5.97	32.61	0	25.69	230.6	.00	.00	1472.
10	5.97	32.61	10	25.69	230.8	.23	.01	1472.
20	5.98	32.61	20	25.69	231.0	.46	.05	1472.
30	5.95	32.61	30	25.70	230.7	.69	.11	1472.
50	5.90	32.61	50	25.70	230.4	1.15	.29	1472.
75	5.74	32.61	75	25.72	228.8	1.73	.66	1472.
100	5.06	32.87	99	26.01	202.0	2.28	1.15	1470.
125	4.36	33.26	124	26.39	165.8	2.73	1.67	1468.
150	4.33	33.55	149	26.62	143.7	3.12	2.21	1469.
175	4.46	33.76	174	26.78	129.3	3.45	2.76	1470.
200	4.40	33.83	199	26.84	123.9	3.77	3.37	1470.
225	4.27	33.85	223	26.87	121.3	4.08	4.03	1470.
250	4.12	33.88	248	26.91	117.4	4.38	4.75	1470.
300	3.97	33.93	298	26.96	112.8	4.95	6.36	1470.
400	3.84	34.03	397	27.06	104.5	6.04	10.25	1471.
500	3.69	34.12	496	27.14	97.4	7.05	14.86	1473.
600	3.54	34.18	595	27.20	92.0	7.99	20.13	1474.
800	3.20	34.31	793	27.34	80.1	9.70	32.31	1476.
1000	2.89	34.40	990	27.44	71.4	11.21	46.07	1478.
1200	2.64	34.45	1188	27.50	66.0	12.57	61.36	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 24

DATE 31/ 3/79

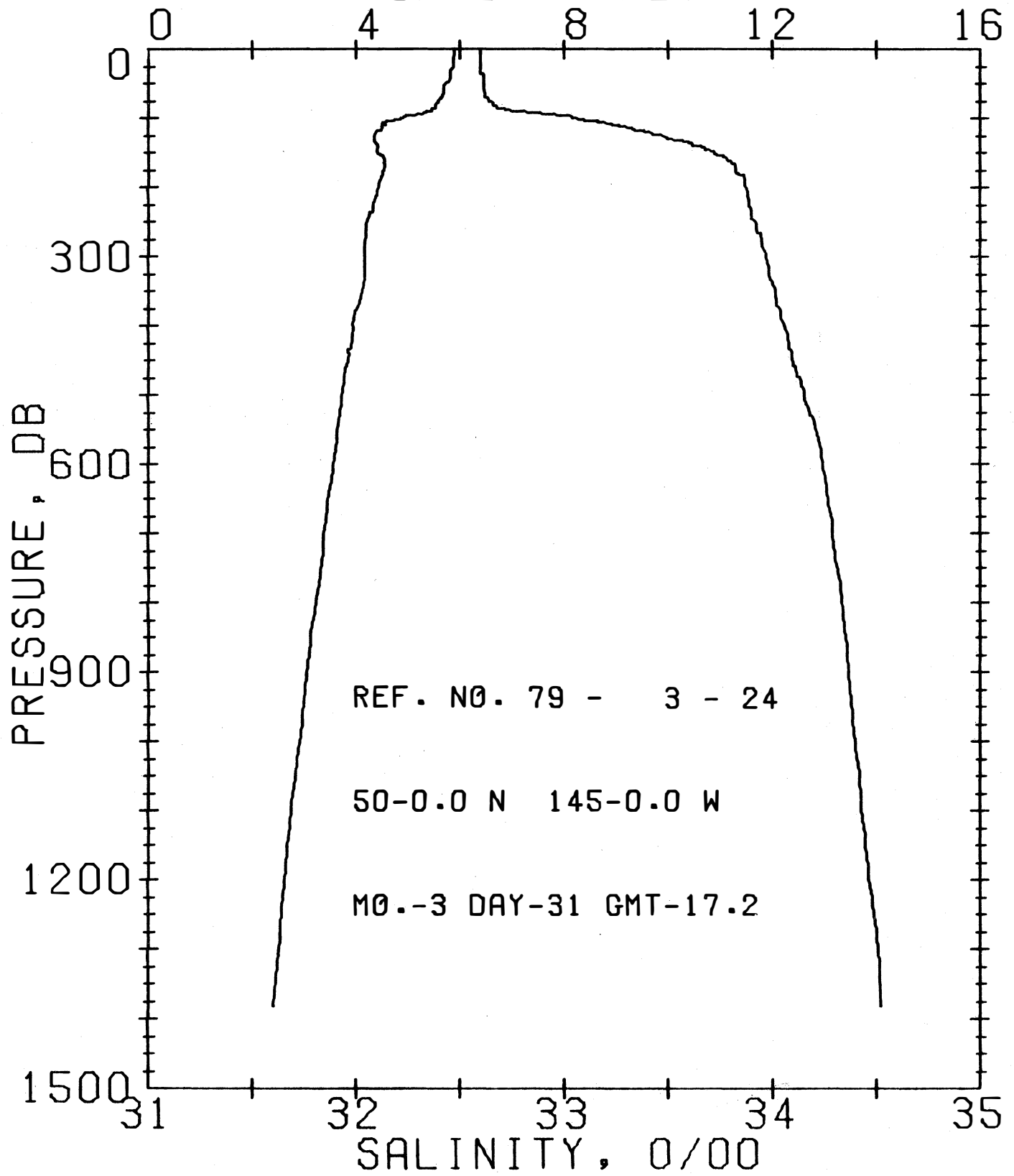
POSITION 50- .0N, 145- .0W GMT 17.2 STATION P

RESULTS OF STP CAST 148 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	5.89	32.60	0	25.70	230.5	.00	.00	1471.
10	5.88	32.60	10	25.70	230.5	.23	.01	1472.
20	5.87	32.60	20	25.70	230.4	.46	.05	1472.
30	5.83	32.60	30	25.70	230.1	.69	.11	1472.
40	5.80	32.61	40	25.71	229.1	.92	.19	1472.
50	5.70	32.61	50	25.73	228.1	1.15	.29	1472.
60	5.68	32.61	60	25.73	227.7	1.38	.42	1472.
70	5.64	32.62	70	25.74	226.8	1.60	.57	1472.
80	5.52	32.66	79	25.79	222.6	1.83	.74	1471.
90	5.37	32.77	89	25.89	212.8	2.05	.93	1471.
100	4.86	33.04	99	26.16	187.1	2.25	1.12	1469.
110	4.52	33.25	109	26.37	167.8	2.42	1.31	1468.
120	4.38	33.39	119	26.49	156.0	2.59	1.50	1468.
130	4.35	33.50	129	26.58	147.5	2.74	1.69	1468.
140	4.42	33.63	139	26.68	138.2	2.88	1.89	1469.
150	4.44	33.72	149	26.75	132.1	3.01	2.09	1469.
160	4.55	33.78	159	26.78	128.9	3.14	2.30	1470.
170	4.55	33.82	169	26.81	125.9	3.27	2.51	1470.
180	4.52	33.83	179	26.83	124.7	3.40	2.73	1470.
190	4.46	33.87	189	26.86	121.5	3.52	2.97	1470.
200	4.42	33.87	199	26.87	120.9	3.64	3.21	1470.
210	4.39	33.88	208	26.88	120.2	3.76	3.46	1470.
220	4.34	33.89	218	26.89	119.0	3.88	3.72	1470.
230	4.32	33.89	228	26.90	118.7	4.00	3.99	1470.
240	4.25	33.90	238	26.91	117.5	4.12	4.28	1470.
250	4.21	33.91	248	26.92	116.2	4.23	4.57	1470.
260	4.20	33.92	258	26.93	115.6	4.35	4.87	1470.
270	4.19	33.94	268	26.95	114.1	4.46	5.18	1471.
280	4.16	33.95	278	26.96	113.1	4.58	5.50	1471.
290	4.16	33.96	288	26.96	112.7	4.69	5.82	1471.
300	4.16	33.97	298	26.97	111.8	4.80	6.16	1471.

TEMPERATURE, C



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 24

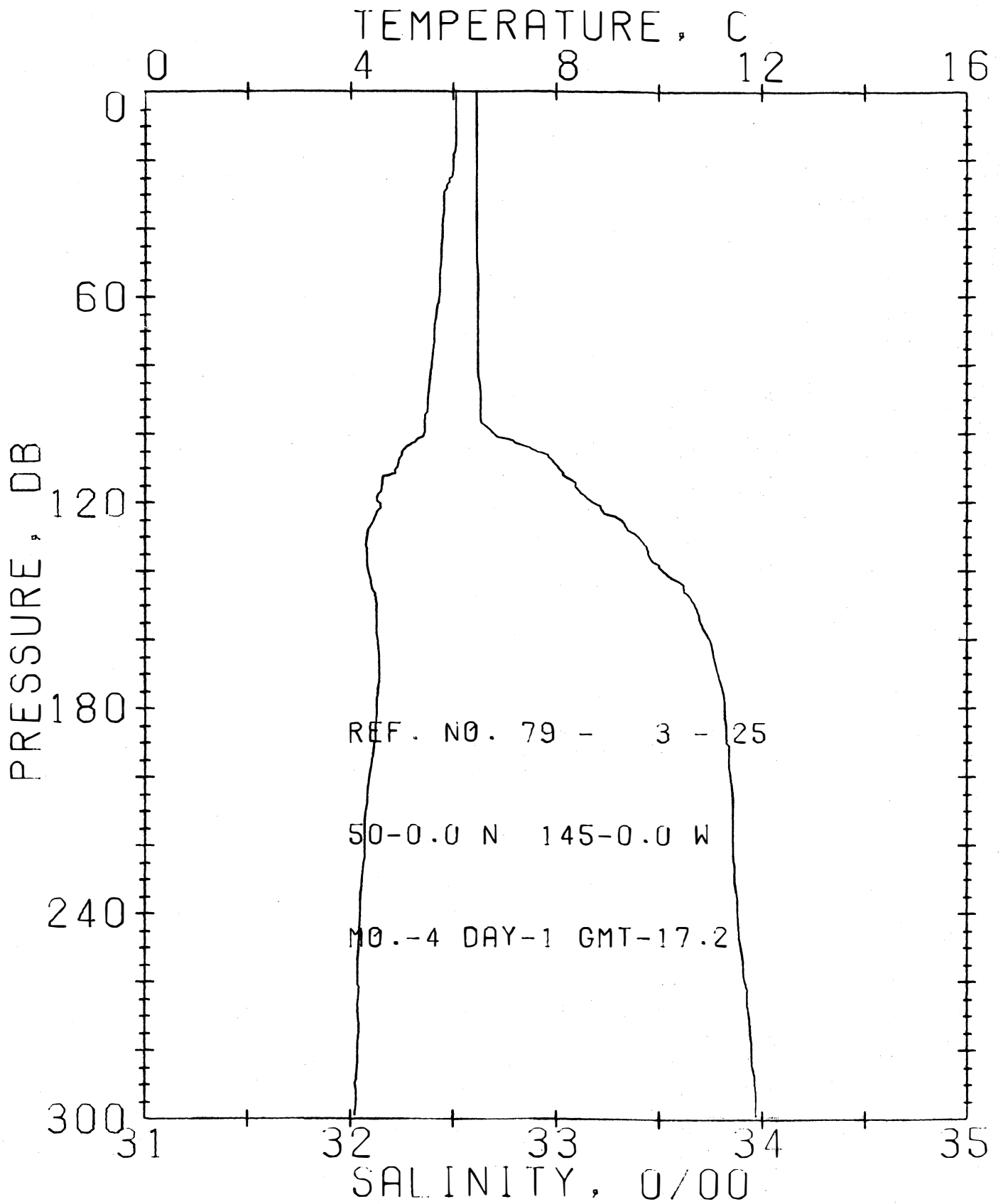
DATE 31/ 3/79

POSITION 50- .0N, 145- .0W GMT 17.2 STATION P

RESULTS OF STP CAST 258 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

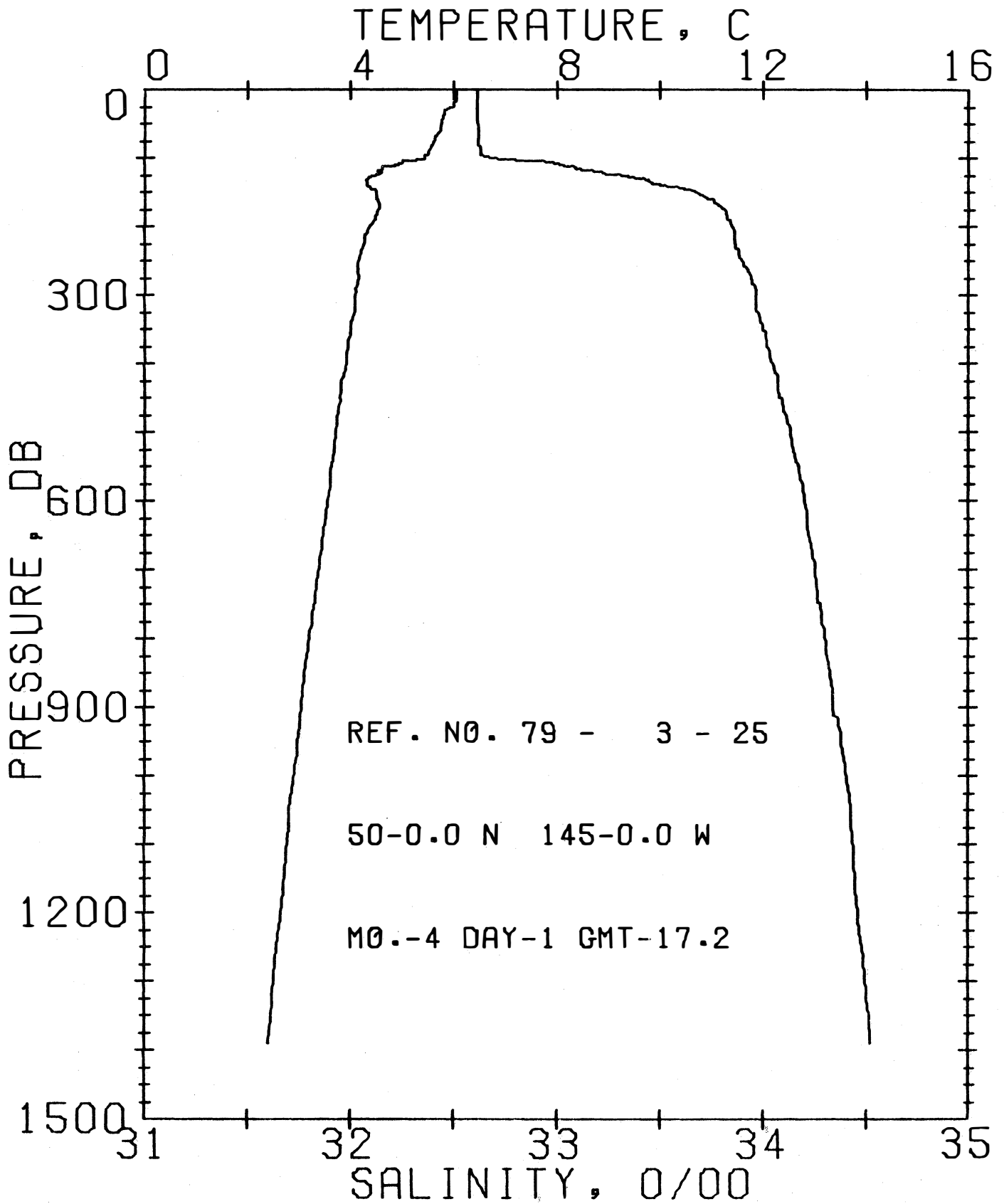
PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	5.89	32.60	0	25.70	230.5	.00	.00	1471.
10	5.88	32.60	10	25.70	230.5	.23	.01	1472.
20	5.87	32.60	20	25.70	230.4	.46	.05	1472.
30	5.83	32.60	30	25.70	230.1	.69	.11	1472.
50	5.70	32.61	50	25.73	228.1	1.15	.29	1472.
75	5.57	32.64	75	25.77	224.7	1.72	.65	1471.
100	4.86	33.04	99	26.16	187.1	2.25	1.12	1469.
125	4.35	33.48	124	26.56	149.3	2.66	1.60	1468.
150	4.44	33.72	149	26.75	132.1	3.01	2.09	1469.
175	4.53	33.82	174	26.82	125.8	3.33	2.62	1470.
200	4.42	33.87	199	26.87	120.9	3.64	3.21	1470.
225	4.32	33.89	223	26.89	118.8	3.94	3.85	1470.
250	4.21	33.91	248	26.92	116.2	4.23	4.57	1470.
300	4.16	33.97	298	26.97	111.8	4.80	6.16	1471.
400	3.93	34.05	397	27.06	103.9	5.89	10.03	1472.
500	3.72	34.15	496	27.16	95.4	6.89	14.60	1473.
600	3.56	34.24	595	27.25	87.9	7.80	19.70	1474.
800	3.23	34.34	793	27.36	78.4	9.46	31.50	1476.
1000	2.90	34.40	990	27.44	71.6	10.95	45.21	1478.
1200	2.62	34.46	1188	27.51	65.2	12.31	60.43	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 25 DATE 1/ 4/79
 POSITION 50- .0N, 145- .0W GMT 17.2 STATION P
 RESULTS OF STP CAST 132 POINTS TAKEN FROM ANALOG TRACE
 GUIDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	6.05	32.61	0	25.68	231.6	.00	.00	1472.
10	6.05	32.61	10	25.68	231.7	.23	.01	1472.
20	6.00	32.61	20	25.69	231.3	.46	.05	1472.
30	5.82	32.61	30	25.71	229.2	.69	.11	1472.
40	5.78	32.61	40	25.72	228.9	.92	.19	1472.
50	5.75	32.61	50	25.72	228.5	1.15	.29	1472.
60	5.73	32.62	60	25.73	227.8	1.38	.42	1472.
70	5.63	32.62	70	25.74	226.7	1.61	.57	1472.
80	5.59	32.62	79	25.75	226.3	1.83	.74	1472.
90	5.50	32.63	89	25.77	224.7	2.06	.94	1471.
100	5.43	32.69	99	25.82	219.5	2.28	1.16	1471.
110	4.91	33.01	109	26.13	189.9	2.48	1.37	1470.
120	4.51	33.18	119	26.31	173.1	2.67	1.58	1469.
130	4.31	33.40	129	26.51	154.6	2.83	1.79	1468.
140	4.34	33.52	139	26.60	146.0	2.98	2.00	1469.
150	4.51	33.67	149	26.70	136.6	3.12	2.21	1470.
160	4.52	33.74	159	26.75	131.6	3.25	2.42	1470.
170	4.55	33.79	169	26.79	128.2	3.38	2.64	1470.
180	4.52	33.82	179	26.82	125.8	3.51	2.86	1470.
190	4.47	33.83	189	26.83	124.6	3.64	3.10	1470.
200	4.36	33.85	199	26.86	121.9	3.76	3.34	1470.
210	4.30	33.86	208	26.87	120.7	3.88	3.60	1470.
220	4.26	33.86	218	26.88	120.4	4.00	3.86	1470.
230	4.22	33.87	228	26.89	119.3	4.12	4.14	1470.
240	4.19	33.88	238	26.90	118.2	4.24	4.42	1470.
250	4.15	33.90	248	26.92	116.6	4.36	4.71	1470.
260	4.13	33.92	258	26.93	115.1	4.47	5.01	1470.
270	4.14	33.93	268	26.95	114.0	4.59	5.32	1470.
280	4.13	33.95	278	26.96	112.8	4.70	5.64	1471.
290	4.09	33.96	288	26.97	111.7	4.81	5.97	1471.
300	4.09	33.97	298	26.98	111.1	4.92	6.30	1471.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 25

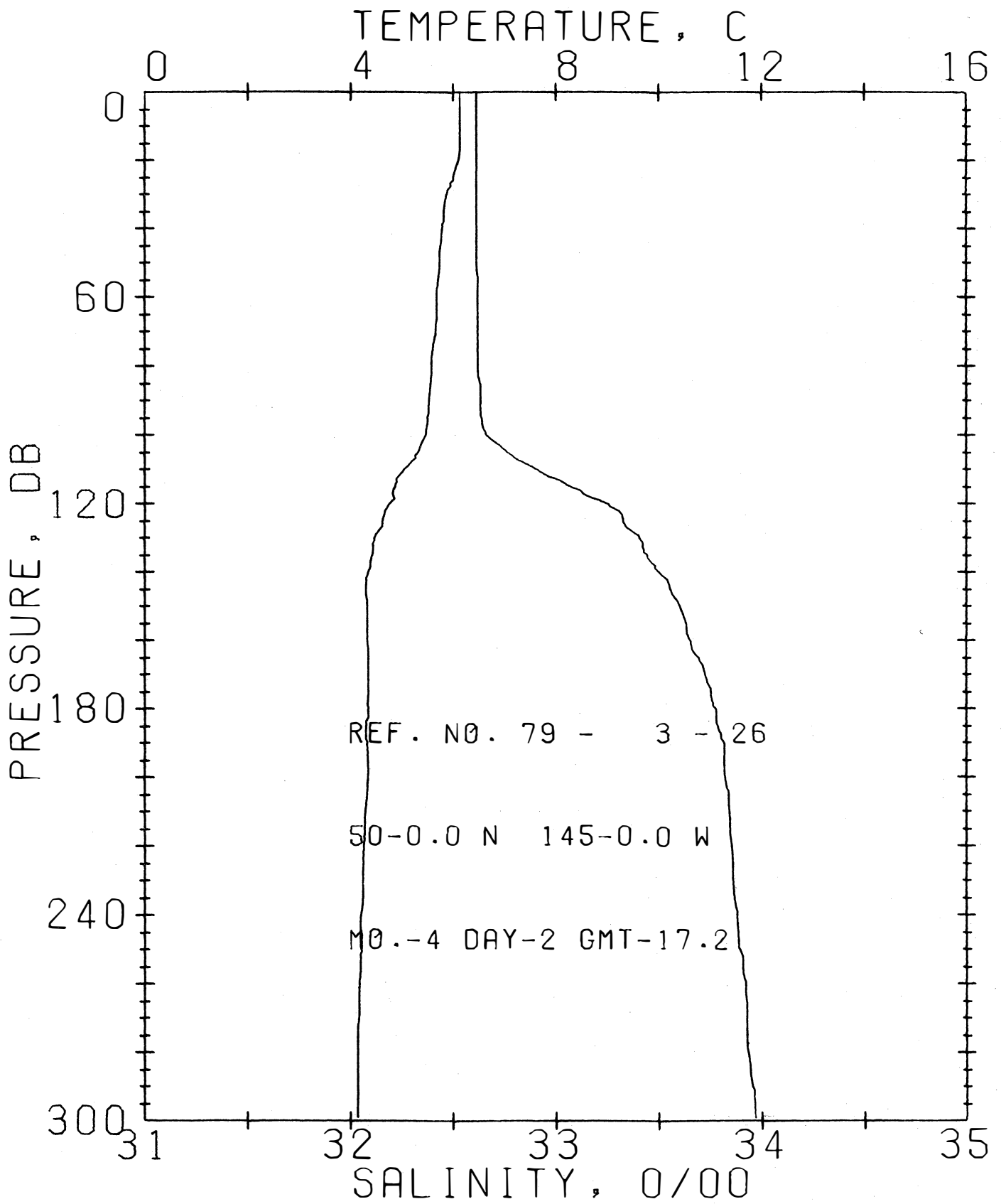
DATE 1/ 4/79

POSITION 50- .0N, 145- .0W GMT 17.2 STATION P

RESULTS OF STP CAST 235 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

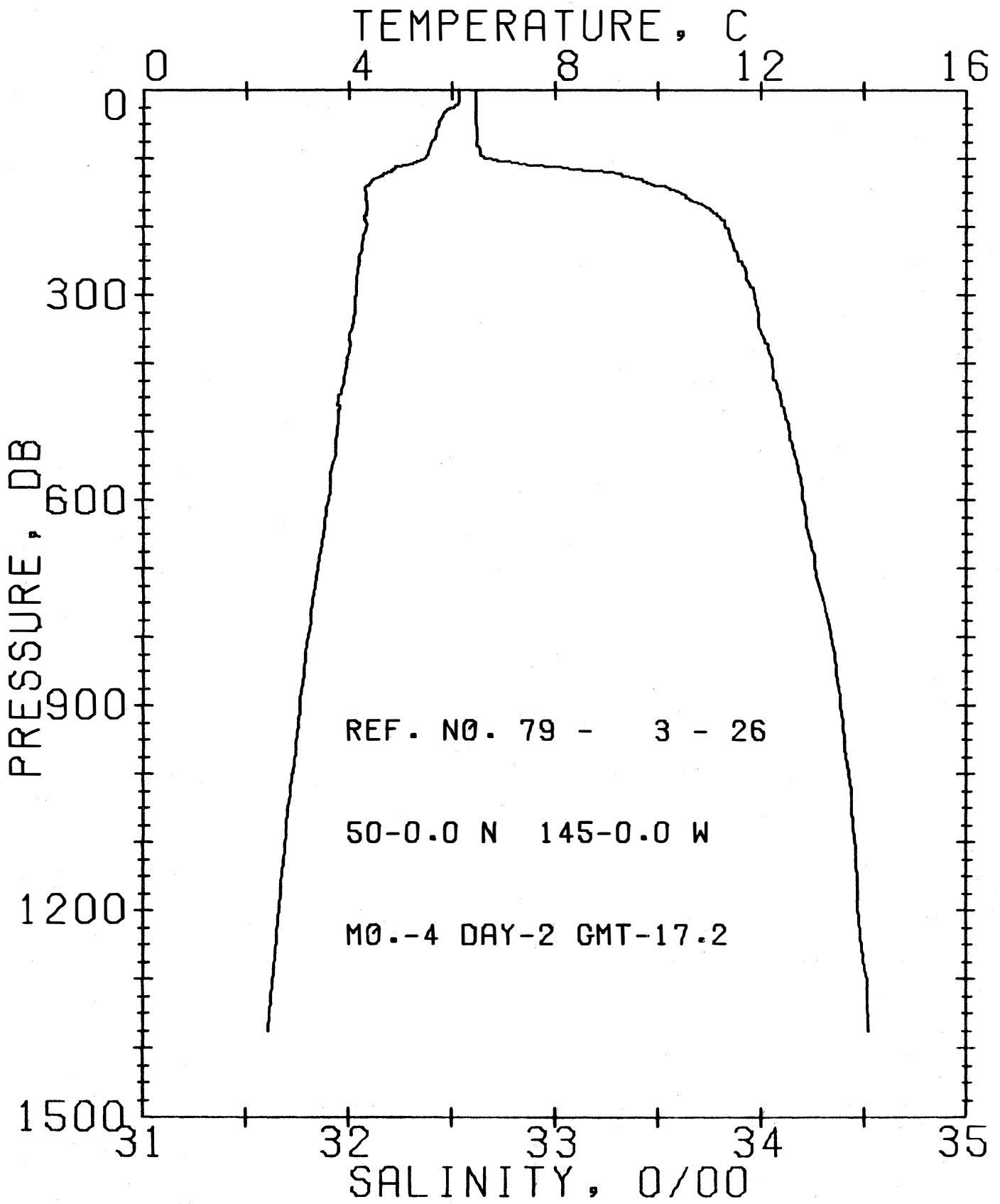
PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	6.05	32.61	0	25.68	231.6	.00	.00	1472.
10	6.05	32.61	10	25.68	231.7	.23	.01	1472.
20	6.00	32.61	20	25.69	231.3	.46	.05	1472.
30	5.82	32.61	30	25.71	229.2	.69	.11	1472.
50	5.75	32.61	50	25.72	228.5	1.15	.29	1472.
75	5.62	32.62	75	25.74	226.7	1.72	.65	1472.
100	5.43	32.69	99	25.82	219.5	2.28	1.16	1471.
125	4.46	33.32	124	26.43	162.1	2.75	1.69	1469.
150	4.51	33.67	149	26.70	136.6	3.12	2.21	1470.
175	4.54	33.81	174	26.81	126.4	3.45	2.75	1470.
200	4.36	33.85	199	26.86	121.9	3.76	3.34	1470.
225	4.25	33.86	223	26.88	120.0	4.06	4.00	1470.
250	4.15	33.90	248	26.92	116.6	4.36	4.71	1470.
300	4.09	33.97	298	26.98	111.1	4.92	6.30	1471.
400	3.90	34.04	397	27.06	104.5	6.01	10.16	1472.
500	3.70	34.13	496	27.15	96.5	7.01	14.76	1473.
600	3.55	34.20	595	27.22	90.6	7.95	20.00	1474.
800	3.18	34.30	793	27.34	80.4	9.66	32.20	1476.
1000	2.89	34.41	990	27.44	71.0	11.18	46.08	1478.
1200	2.64	34.46	1188	27.51	65.5	12.54	61.29	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 26 DATE 2/ 4/79
 POSITION 50- .0N, 145- .0W GMT 17.2 STATION P
 RESULTS OF STP CAST 139 POINTS TAKEN FROM ANALOG TRACE
 GUIDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	6.14	32.61	0	25.67	232.6	.00	.00	1472.
10	6.14	32.61	10	25.67	232.7	.23	.01	1473.
20	6.11	32.61	20	25.68	232.5	.47	.05	1473.
30	5.87	32.61	30	25.71	229.8	.70	.11	1472.
40	5.79	32.61	40	25.72	228.9	.93	.19	1472.
50	5.72	32.61	50	25.72	228.3	1.15	.29	1472.
60	5.68	32.62	60	25.74	227.2	1.38	.42	1472.
70	5.66	32.62	70	25.74	227.0	1.61	.57	1472.
80	5.57	32.62	79	25.75	226.2	1.84	.74	1472.
90	5.53	32.63	89	25.76	225.0	2.06	.94	1471.
100	5.46	32.66	99	25.79	222.1	2.29	1.16	1471.
110	5.04	32.91	109	26.04	198.8	2.50	1.38	1470.
120	4.75	33.25	119	26.34	170.3	2.68	1.60	1470.
130	4.46	33.41	129	26.50	155.4	2.85	1.81	1469.
140	4.34	33.50	139	26.58	147.5	3.00	2.02	1469.
150	4.31	33.60	149	26.66	140.1	3.14	2.23	1469.
160	4.33	33.65	159	26.70	136.3	3.28	2.45	1469.
170	4.35	33.72	169	26.76	131.2	3.41	2.67	1469.
180	4.35	33.78	179	26.80	127.0	3.54	2.90	1470.
190	4.33	33.82	189	26.84	123.8	3.67	3.14	1470.
200	4.34	33.82	199	26.84	123.8	3.79	3.39	1470.
210	4.29	33.84	208	26.86	121.7	3.91	3.64	1470.
220	4.26	33.86	218	26.87	120.8	4.04	3.91	1470.
230	4.24	33.86	228	26.88	119.9	4.16	4.18	1470.
240	4.21	33.88	238	26.90	118.5	4.28	4.47	1470.
250	4.20	33.89	248	26.91	117.4	4.39	4.76	1470.
260	4.17	33.92	258	26.93	115.3	4.51	5.07	1470.
270	4.14	33.93	268	26.94	114.4	4.62	5.38	1470.
280	4.12	33.93	278	26.95	114.0	4.74	5.70	1471.
290	4.13	33.95	288	26.96	112.6	4.85	6.03	1471.
300	4.13	33.97	298	26.98	111.5	4.96	6.36	1471.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 26

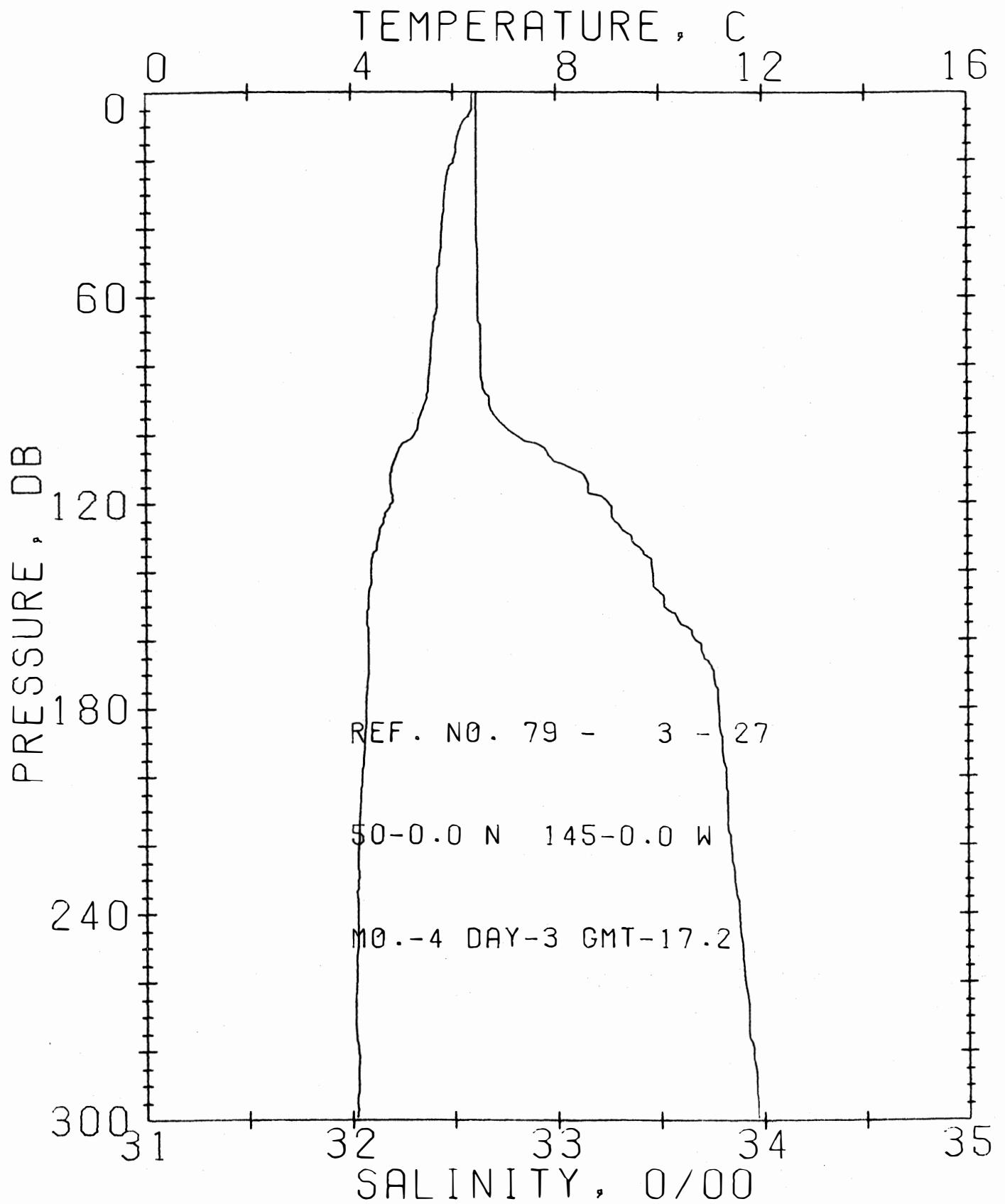
DATE 2/ 4/79

POSITION 50- .0N, 145- .0W GMT 17.2 STATION P

RESULTS OF STP CAST 245 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	6.14	32.61	0	25.67	232.6	.00	.00	1472.
10	6.14	32.61	10	25.67	232.7	.23	.01	1473.
20	6.11	32.61	20	25.68	232.5	.47	.05	1473.
30	5.87	32.61	30	25.71	229.8	.70	.11	1472.
50	5.72	32.61	50	25.72	228.3	1.15	.29	1472.
75	5.60	32.62	75	25.75	226.5	1.72	.65	1472.
100	5.46	32.66	99	25.79	222.1	2.29	1.16	1471.
125	4.61	33.33	124	26.42	162.9	2.77	1.70	1469.
150	4.31	33.60	149	26.66	140.1	3.14	2.23	1469.
175	4.35	33.75	174	26.78	129.2	3.48	2.79	1469.
200	4.34	33.82	199	26.84	123.8	3.79	3.39	1470.
225	4.25	33.86	223	26.88	120.3	4.10	4.04	1470.
250	4.20	33.89	248	26.91	117.4	4.39	4.76	1470.
300	4.13	33.97	298	26.98	111.5	4.96	6.36	1471.
400	3.95	34.05	397	27.06	104.5	6.05	10.22	1472.
500	3.76	34.14	496	27.15	96.7	7.05	14.83	1473.
600	3.59	34.20	595	27.21	91.0	7.99	20.07	1474.
800	3.19	34.34	793	27.37	77.6	9.68	32.08	1476.
1000	2.89	34.43	990	27.46	69.2	11.14	45.48	1478.
1200	2.63	34.47	1188	27.52	64.5	12.47	60.37	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 27

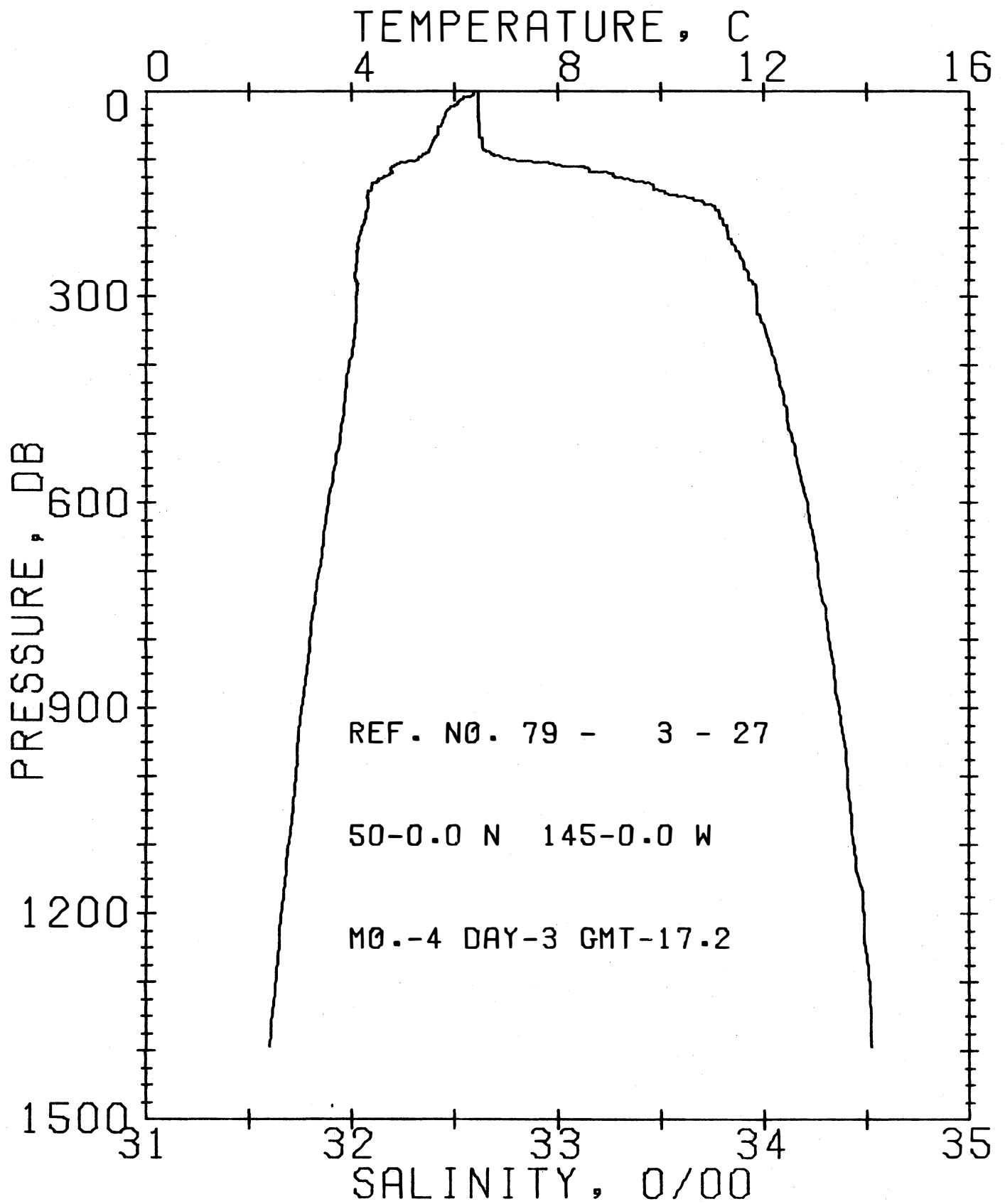
DATE 3/ 4/79

POSITION 50- .0N, 145- .0W GMT 17.2 STATION P

RESULTS OF STP CAST 150 POINTS TAKEN FROM ANALOG TRACE

GUIDELINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	6.38	32.61	0	25.64	235.5	.00	.00	1473.
10	6.16	32.61	10	25.67	233.0	.23	.01	1473.
20	6.01	32.61	20	25.69	231.3	.47	.05	1472.
30	5.83	32.61	30	25.71	229.4	.70	.11	1472.
40	5.77	32.61	40	25.72	228.8	.93	.19	1472.
50	5.73	32.62	50	25.73	227.6	1.15	.29	1472.
60	5.68	32.62	60	25.74	227.2	1.38	.42	1472.
70	5.59	32.63	70	25.76	225.5	1.61	.57	1471.
80	5.54	32.63	79	25.76	225.1	1.83	.74	1471.
90	5.46	32.67	89	25.80	221.3	2.06	.94	1471.
100	5.22	32.80	99	25.93	209.0	2.27	1.15	1471.
110	4.77	33.07	109	26.20	184.0	2.47	1.36	1469.
120	4.80	33.25	119	26.34	170.9	2.65	1.56	1470.
130	4.52	33.36	129	26.46	159.4	2.81	1.77	1469.
140	4.37	33.47	139	26.56	150.0	2.97	1.99	1469.
150	4.32	33.52	149	26.60	145.9	3.11	2.20	1469.
160	4.31	33.67	159	26.72	134.6	3.25	2.42	1469.
170	4.31	33.76	169	26.79	128.0	3.38	2.64	1469.
180	4.28	33.79	179	26.82	125.8	3.51	2.87	1469.
190	4.24	33.80	189	26.83	124.4	3.64	3.11	1469.
200	4.19	33.82	199	26.85	122.5	3.76	3.35	1469.
210	4.15	33.83	208	26.86	121.4	3.88	3.61	1469.
220	4.12	33.84	218	26.88	120.1	4.00	3.87	1469.
230	4.12	33.86	228	26.89	119.0	4.12	4.15	1470.
240	4.10	33.88	238	26.91	117.1	4.24	4.43	1470.
250	4.10	33.90	248	26.92	116.0	4.36	4.72	1470.
260	4.08	33.91	258	26.94	114.9	4.47	5.02	1470.
270	4.06	33.93	268	26.95	113.5	4.59	5.33	1470.
280	4.11	33.95	278	26.96	112.6	4.70	5.64	1470.
290	4.10	33.96	288	26.97	111.9	4.81	5.97	1471.
300	4.09	33.97	298	26.98	111.1	4.92	6.30	1471.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 27

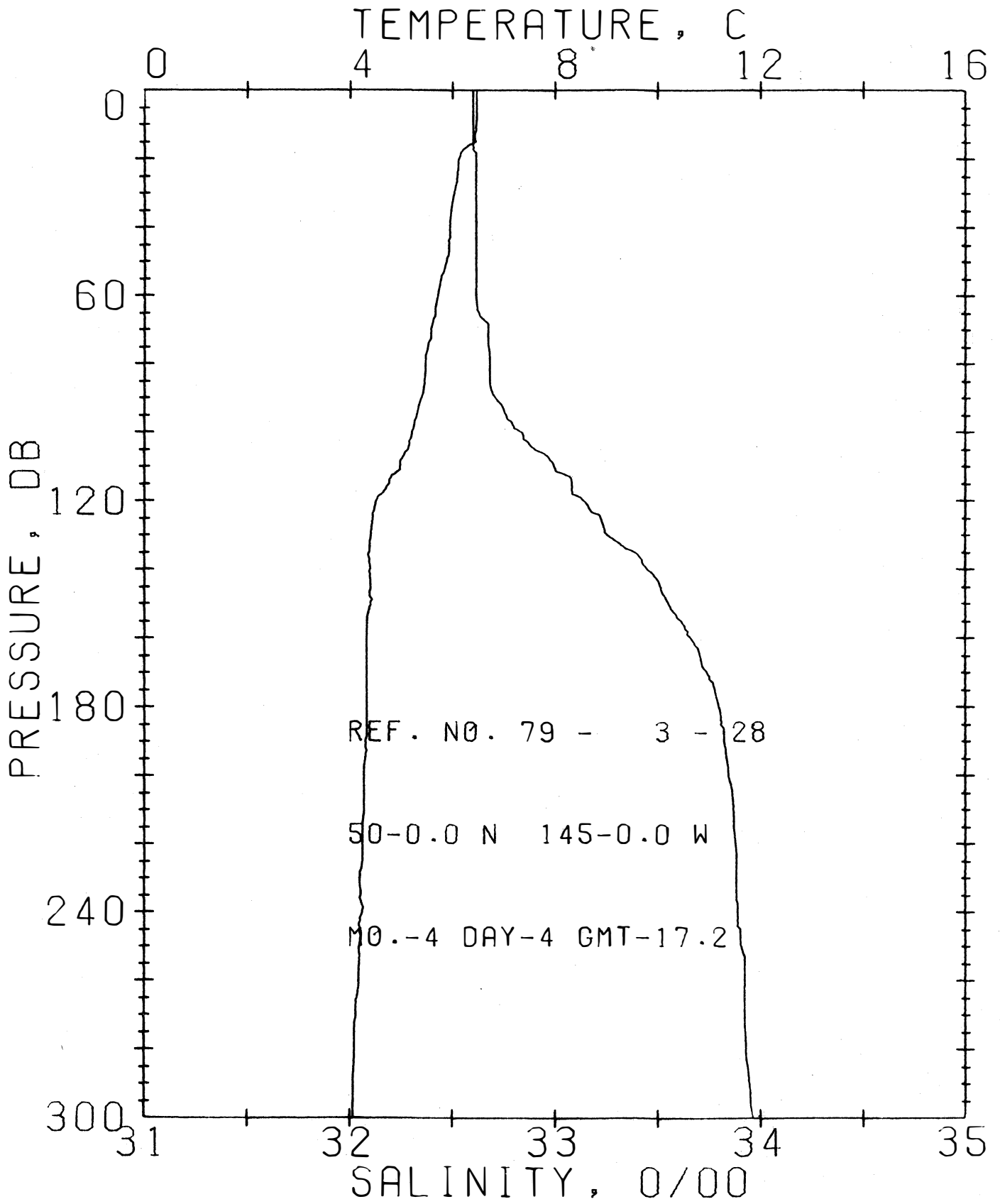
DATE 3/ 4/79

POSITION 50- .0N, 145- .0W GMT 17.2 STATION P

RESULTS OF STP CAST 232 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	6.38	32.61	0	25.64	235.5	.00	.00	1473.
10	6.16	32.61	10	25.67	233.0	.23	.01	1473.
20	6.01	32.61	20	25.69	231.3	.47	.05	1472.
30	5.83	32.61	30	25.71	229.4	.70	.11	1472.
50	5.73	32.62	50	25.73	227.6	1.15	.29	1472.
75	5.56	32.63	75	25.76	225.2	1.72	.65	1471.
100	5.22	32.80	99	25.93	209.0	2.27	1.15	1471.
125	4.62	33.28	124	26.38	166.8	2.73	1.67	1469.
150	4.32	33.52	149	26.60	145.9	3.11	2.20	1469.
175	4.30	33.78	174	26.81	126.4	3.45	2.76	1469.
200	4.19	33.82	199	26.85	122.5	3.76	3.35	1469.
225	4.11	33.85	223	26.89	119.4	4.06	4.01	1469.
250	4.10	33.90	248	26.92	116.0	4.36	4.72	1470.
300	4.09	33.97	298	26.98	111.1	4.92	6.30	1471.
400	3.94	34.06	397	27.07	103.8	6.01	10.16	1472.
500	3.77	34.13	496	27.14	97.4	7.01	14.77	1473.
600	3.54	34.21	595	27.23	89.9	7.95	20.02	1474.
800	3.17	34.32	793	27.35	79.4	9.64	32.05	1476.
1000	2.91	34.41	990	27.44	70.9	11.14	45.75	1478.
1200	2.63	34.49	1188	27.53	63.4	12.49	60.86	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 28

DATE 4/ 4/79

POSITION 50- .0N, 145- .0W

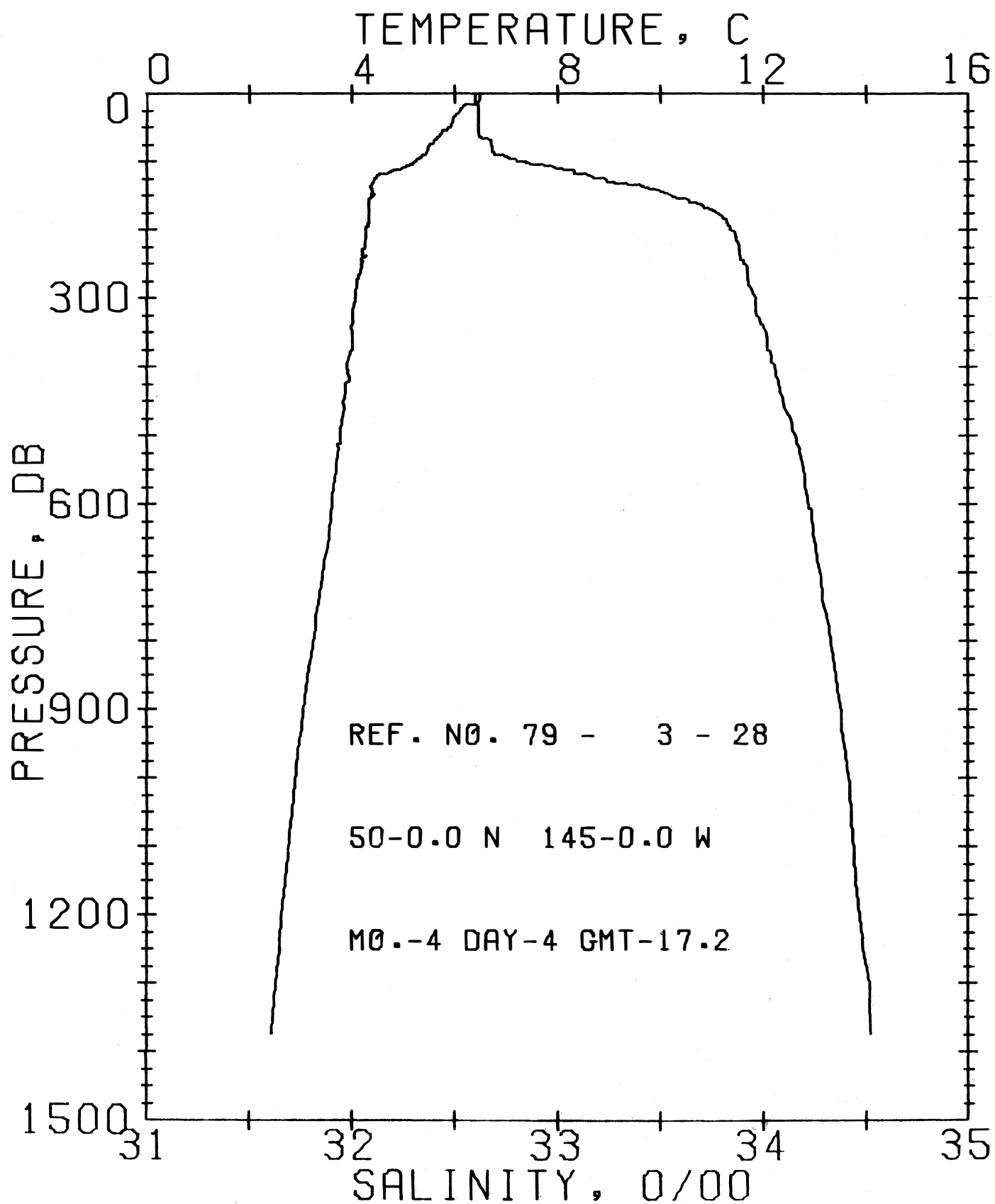
GMT 17.2

STATION P

RESULTS OF STP CAST 149 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	6.47	32.60	0	25.62	237.3	.00	.00	1474.
10	6.47	32.60	10	25.62	237.4	.24	.01	1474.
20	6.13	32.61	20	25.67	232.8	.47	.05	1473.
30	6.03	32.61	30	25.69	231.7	.71	.11	1473.
40	5.95	32.61	40	25.70	230.8	.94	.19	1472.
50	5.87	32.61	50	25.71	230.0	1.17	.30	1472.
60	5.70	32.61	60	25.73	228.2	1.40	.42	1472.
70	5.58	32.67	70	25.79	222.4	1.62	.57	1471.
80	5.47	32.68	79	25.81	220.5	1.84	.74	1471.
90	5.39	32.70	89	25.84	217.9	2.06	.93	1471.
100	5.20	32.84	99	25.97	205.7	2.28	1.14	1471.
110	4.96	32.99	109	26.12	191.6	2.47	1.35	1470.
120	4.51	33.13	119	26.28	176.4	2.66	1.57	1468.
130	4.41	33.25	129	26.38	166.9	2.83	1.78	1468.
140	4.40	33.45	139	26.54	151.9	2.99	2.00	1469.
150	4.39	33.55	149	26.62	144.3	3.13	2.22	1469.
160	4.32	33.66	159	26.71	135.5	3.27	2.44	1469.
170	4.33	33.74	169	26.77	129.7	3.41	2.66	1469.
180	4.33	33.80	179	26.82	125.5	3.53	2.89	1470.
190	4.29	33.82	189	26.84	123.4	3.66	3.12	1470.
200	4.26	33.84	199	26.86	121.7	3.78	3.37	1470.
210	4.26	33.87	208	26.88	119.7	3.90	3.62	1470.
220	4.24	33.88	218	26.89	119.0	4.02	3.88	1470.
230	4.19	33.88	228	26.90	118.3	4.14	4.15	1470.
240	4.24	33.89	238	26.90	118.1	4.26	4.44	1470.
250	4.18	33.90	248	26.92	116.4	4.38	4.73	1470.
260	4.16	33.92	258	26.93	115.2	4.49	5.03	1470.
270	4.10	33.92	268	26.94	114.7	4.61	5.34	1470.
280	4.07	33.93	278	26.95	113.7	4.72	5.66	1470.
290	4.04	33.94	288	26.97	112.5	4.83	5.99	1470.
300	4.06	33.96	298	26.98	111.5	4.94	6.33	1471.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 28

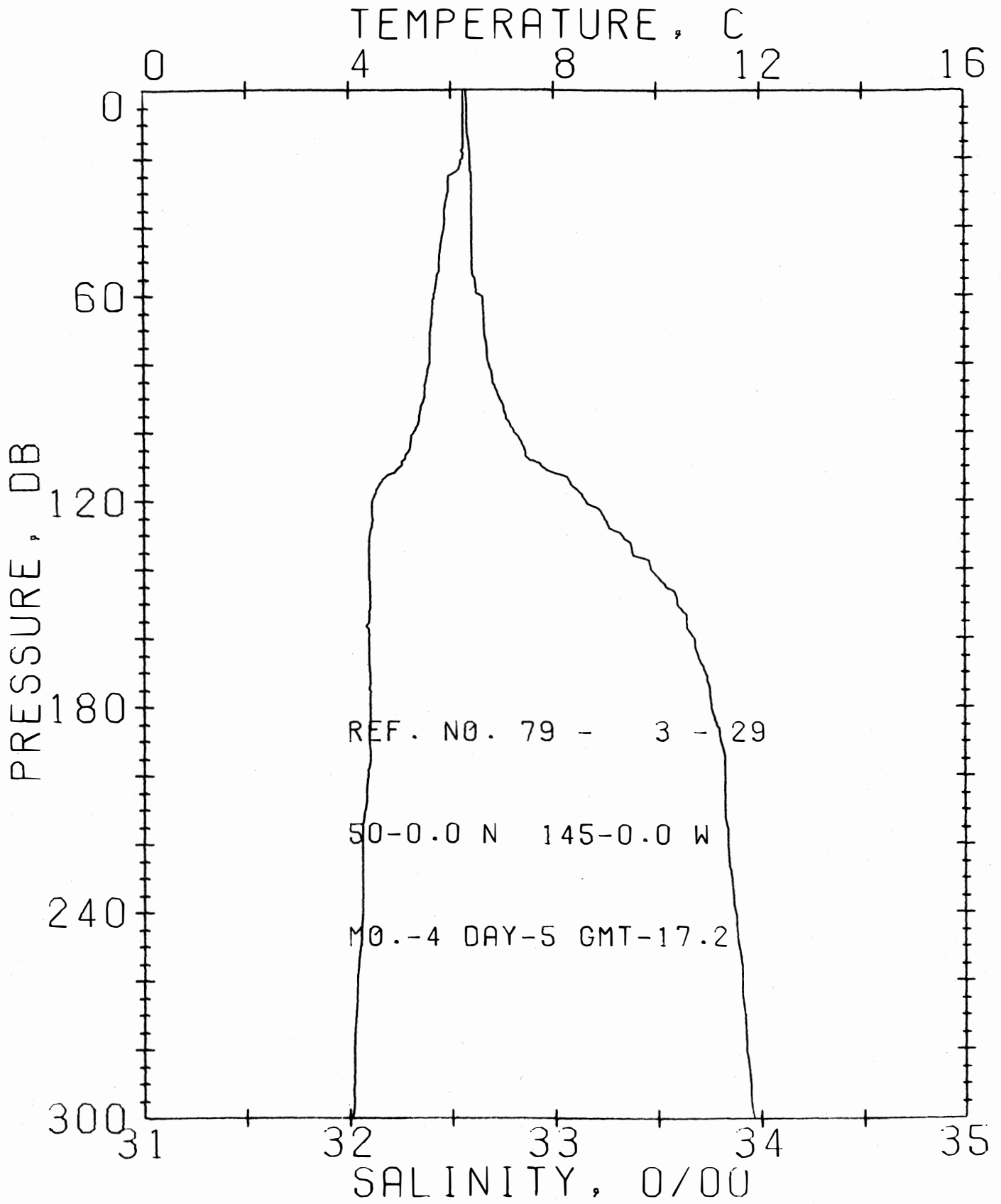
DATE 4/ 4/79

POSITION 50- .0N, 145- .0W GMT 17.2 STATION P

RESULTS OF STP CAST 252 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	6.47	32.60	0	25.62	237.3	.00	.00	1474.
10	6.47	32.60	10	25.62	237.4	.24	.01	1474.
20	6.13	32.61	20	25.67	232.8	.47	.05	1473.
30	6.03	32.61	30	25.69	231.7	.71	.11	1473.
50	5.87	32.61	50	25.71	230.0	1.17	.30	1472.
75	5.51	32.67	75	25.80	221.5	1.73	.66	1471.
100	5.20	32.84	99	25.97	205.7	2.28	1.14	1471.
125	4.43	33.22	124	26.35	169.5	2.75	1.68	1468.
150	4.39	33.55	149	26.62	144.3	3.13	2.22	1469.
175	4.33	33.78	174	26.80	126.9	3.47	2.78	1469.
200	4.26	33.84	199	26.86	121.7	3.78	3.37	1470.
225	4.23	33.88	223	26.90	118.6	4.08	4.02	1470.
250	4.18	33.90	248	26.92	116.4	4.38	4.73	1470.
300	4.06	33.96	298	26.98	111.5	4.94	6.33	1471.
400	3.90	34.05	397	27.06	103.9	6.02	10.17	1472.
500	3.77	34.15	496	27.16	95.9	7.03	14.76	1473.
600	3.60	34.22	595	27.23	89.9	7.95	19.94	1474.
800	3.24	34.33	793	27.35	79.2	9.64	31.96	1476.
1000	2.89	34.42	990	27.45	70.2	11.13	45.59	1478.
1200	2.62	34.47	1188	27.52	64.6	12.48	60.74	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 29

DATE 5/ 4/79

POSITION 50- .0N, 145- .0W

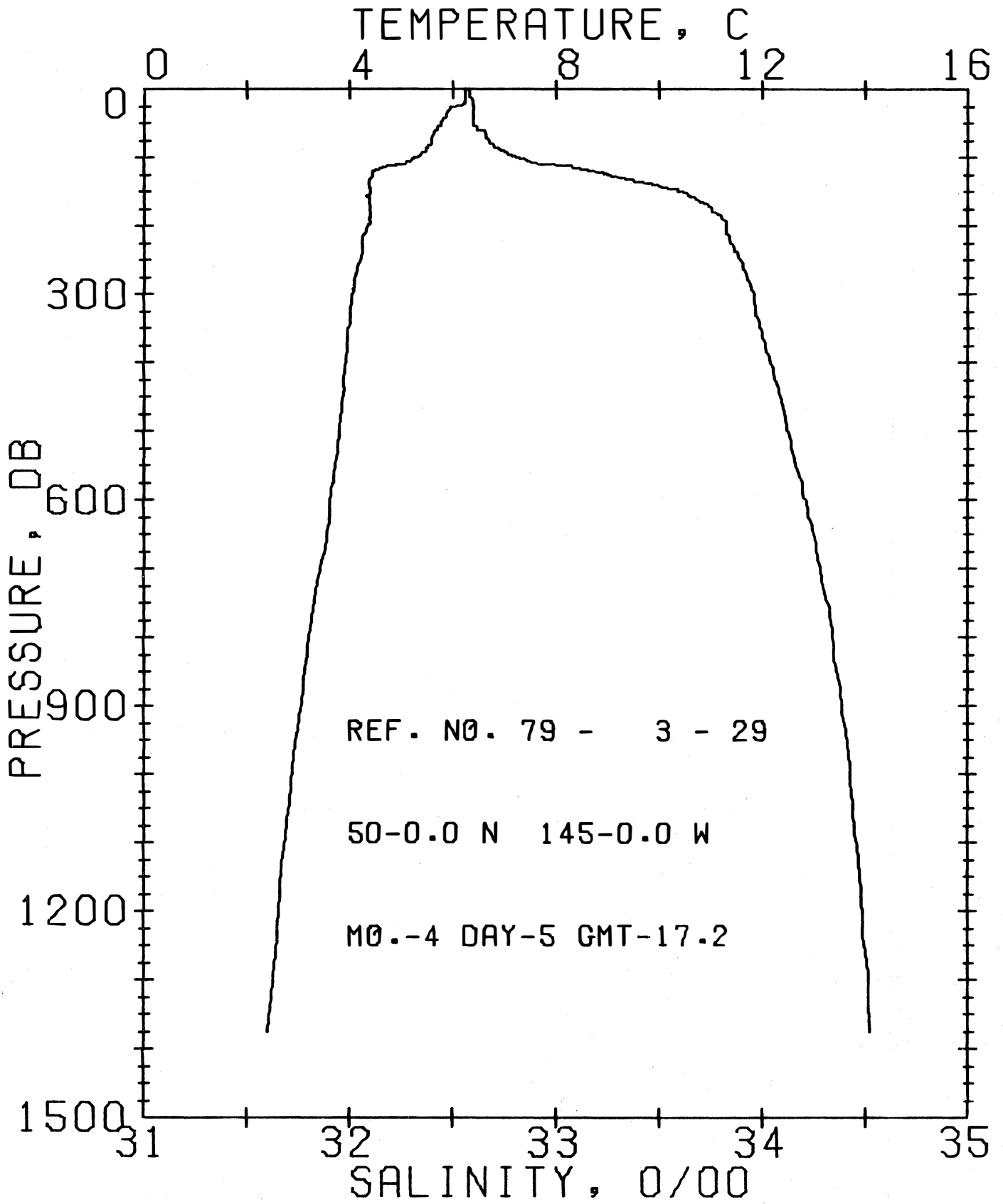
GMT 17.2

STATION P

RESULTS OF STP CAST 137 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	6.24	32.57	0	25.63	236.8	.00	.00	1473.
10	6.25	32.58	10	25.64	236.3	.24	.01	1473.
20	6.24	32.59	20	25.64	235.5	.47	.05	1473.
30	5.94	32.60	30	25.69	231.4	.71	.11	1472.
40	5.86	32.60	40	25.70	230.5	.94	.19	1472.
50	5.75	32.60	50	25.71	229.4	1.17	.30	1472.
60	5.66	32.65	60	25.76	224.7	1.39	.42	1472.
70	5.60	32.66	70	25.78	223.3	1.62	.57	1471.
80	5.58	32.68	79	25.80	221.8	1.84	.74	1472.
90	5.46	32.73	89	25.85	216.8	2.06	.93	1471.
100	5.25	32.81	99	25.94	208.5	2.27	1.14	1471.
110	5.00	32.94	109	26.07	196.2	2.48	1.36	1470.
120	4.45	33.15	119	26.29	174.7	2.66	1.57	1468.
130	4.39	33.33	129	26.44	160.7	2.83	1.78	1468.
140	4.38	33.47	139	26.55	150.1	2.98	2.00	1469.
150	4.39	33.59	149	26.65	141.3	3.13	2.21	1469.
160	4.38	33.68	159	26.72	134.6	3.26	2.43	1469.
170	4.39	33.73	169	26.76	130.8	3.40	2.65	1470.
180	4.40	33.76	179	26.78	129.0	3.53	2.88	1470.
190	4.38	33.81	189	26.82	125.1	3.65	3.12	1470.
200	4.35	33.83	199	26.84	123.3	3.78	3.37	1470.
210	4.30	33.83	208	26.85	123.0	3.90	3.63	1470.
220	4.23	33.84	218	26.86	121.6	4.02	3.89	1470.
230	4.25	33.86	228	26.88	120.4	4.14	4.17	1470.
240	4.23	33.88	238	26.89	119.0	4.26	4.46	1470.
250	4.20	33.90	248	26.91	117.3	4.38	4.75	1470.
260	4.14	33.91	258	26.93	115.7	4.50	5.06	1470.
270	4.11	33.92	268	26.94	114.8	4.61	5.37	1470.
280	4.09	33.93	278	26.95	113.9	4.73	5.69	1470.
290	4.08	33.95	288	26.97	112.4	4.84	6.02	1471.
300	4.03	33.96	298	26.98	111.2	4.95	6.35	1470.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 29

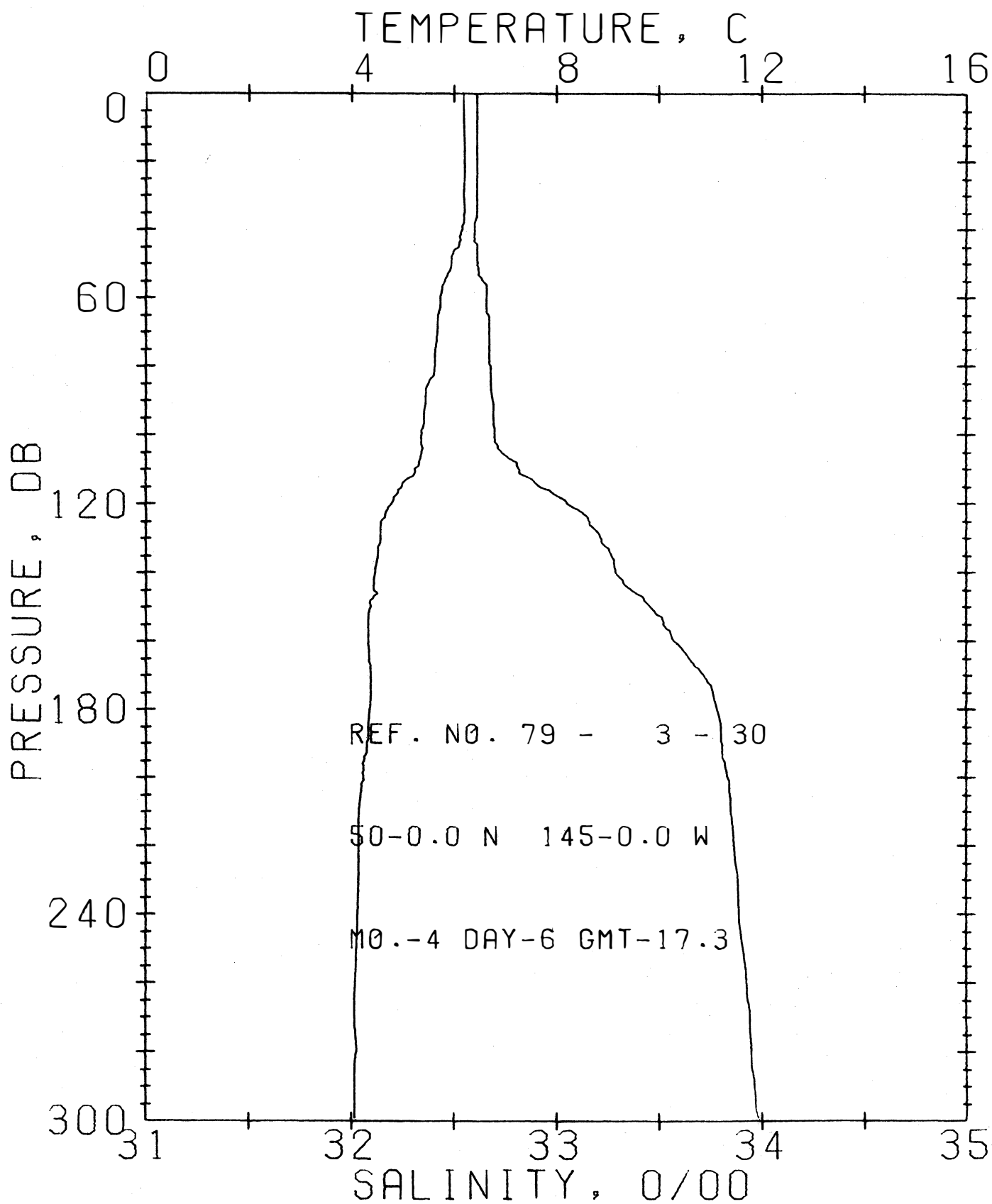
DATE 5/ 4/79

POSITION 50- .0N, 145- .0W GMT 17.2 STATION P

RESULTS OF STP CAST 224 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DLPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	6.24	32.57	0	25.63	236.8	.00	.00	1473.
10	6.25	32.58	10	25.64	236.3	.24	.01	1473.
20	6.24	32.59	20	25.64	235.5	.47	.05	1473.
30	5.94	32.60	30	25.69	231.4	.71	.11	1472.
50	5.75	32.60	50	25.71	229.4	1.17	.30	1472.
75	5.58	32.67	75	25.79	222.5	1.73	.65	1472.
100	5.25	32.81	99	25.94	208.5	2.27	1.14	1471.
125	4.44	33.24	124	26.37	167.9	2.74	1.68	1468.
150	4.39	33.59	149	26.65	141.3	3.13	2.21	1469.
175	4.37	33.75	174	26.78	129.4	3.46	2.77	1470.
200	4.35	33.83	199	26.84	123.3	3.78	3.37	1470.
225	4.24	33.85	223	26.87	121.1	4.08	4.03	1470.
250	4.20	33.90	248	26.91	117.3	4.38	4.75	1470.
300	4.03	33.96	298	26.98	111.2	4.95	6.35	1470.
400	3.91	34.04	397	27.05	104.9	6.04	10.22	1472.
500	3.78	34.12	496	27.13	98.3	7.05	14.86	1473.
600	3.61	34.20	595	27.22	90.8	8.00	20.16	1474.
800	3.20	34.34	793	27.36	77.8	9.68	32.11	1476.
1000	2.87	34.43	990	27.46	69.0	11.15	45.52	1478.
1200	2.61	34.49	1188	27.53	63.2	12.47	60.30	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 30

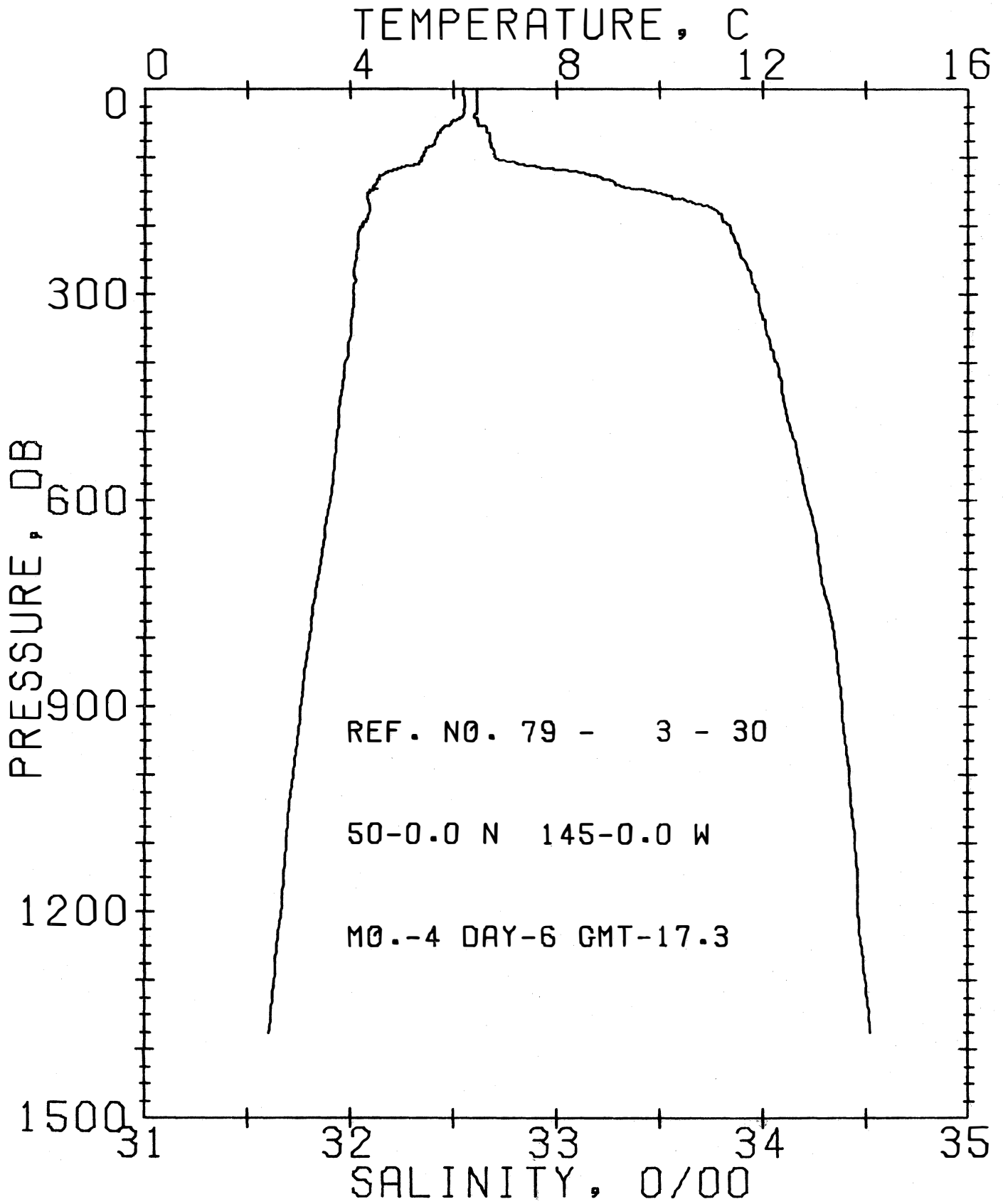
DATE 6/ 4/79

POSITION 50- .0N, 145- .0W GMT 17.3 STATION P

RESULTS OF STP CAST 146 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	6.20	32.61	0	25.67	233.3	.00	.00	1473.
10	6.20	32.61	10	25.67	233.5	.23	.01	1473.
20	6.21	32.61	20	25.66	233.7	.47	.05	1473.
30	6.20	32.61	30	25.67	233.7	.70	.11	1473.
40	6.17	32.60	40	25.66	234.2	.93	.19	1473.
50	5.94	32.61	50	25.70	230.8	1.17	.30	1472.
60	5.74	32.66	60	25.76	224.9	1.39	.42	1472.
70	5.67	32.67	70	25.78	223.4	1.62	.57	1472.
80	5.62	32.68	79	25.79	222.2	1.84	.74	1472.
90	5.44	32.69	89	25.82	219.8	2.06	.94	1471.
100	5.36	32.70	99	25.84	218.0	2.28	1.15	1471.
110	5.23	32.82	109	25.95	207.7	2.50	1.38	1471.
120	4.78	33.05	119	26.18	185.6	2.69	1.61	1469.
130	4.56	33.22	129	26.34	170.7	2.87	1.83	1469.
140	4.45	33.29	139	26.40	164.4	3.04	2.06	1469.
150	4.36	33.46	149	26.55	150.8	3.19	2.29	1469.
160	4.33	33.57	159	26.64	142.3	3.34	2.52	1469.
170	4.37	33.71	169	26.75	131.9	3.48	2.75	1469.
180	4.36	33.78	179	26.81	126.6	3.61	2.98	1470.
190	4.30	33.81	189	26.83	124.3	3.73	3.22	1470.
200	4.23	33.84	199	26.86	121.7	3.85	3.47	1469.
210	4.14	33.85	209	26.88	119.8	3.97	3.72	1469.
220	4.13	33.86	218	26.89	118.7	4.09	3.98	1469.
230	4.13	33.88	228	26.91	117.5	4.21	4.25	1470.
240	4.11	33.89	238	26.91	116.8	4.33	4.53	1470.
250	4.09	33.91	248	26.93	115.4	4.45	4.82	1470.
260	4.07	33.92	258	26.95	113.9	4.56	5.12	1470.
270	4.06	33.94	268	26.96	112.7	4.67	5.42	1470.
280	4.10	33.95	278	26.96	112.5	4.79	5.74	1470.
290	4.06	33.96	288	26.98	111.4	4.90	6.07	1470.
300	4.06	33.98	298	26.99	110.0	5.01	6.40	1471.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 30

DATE 6/ 4/79

POSITION 50- .0N, 145- .0W

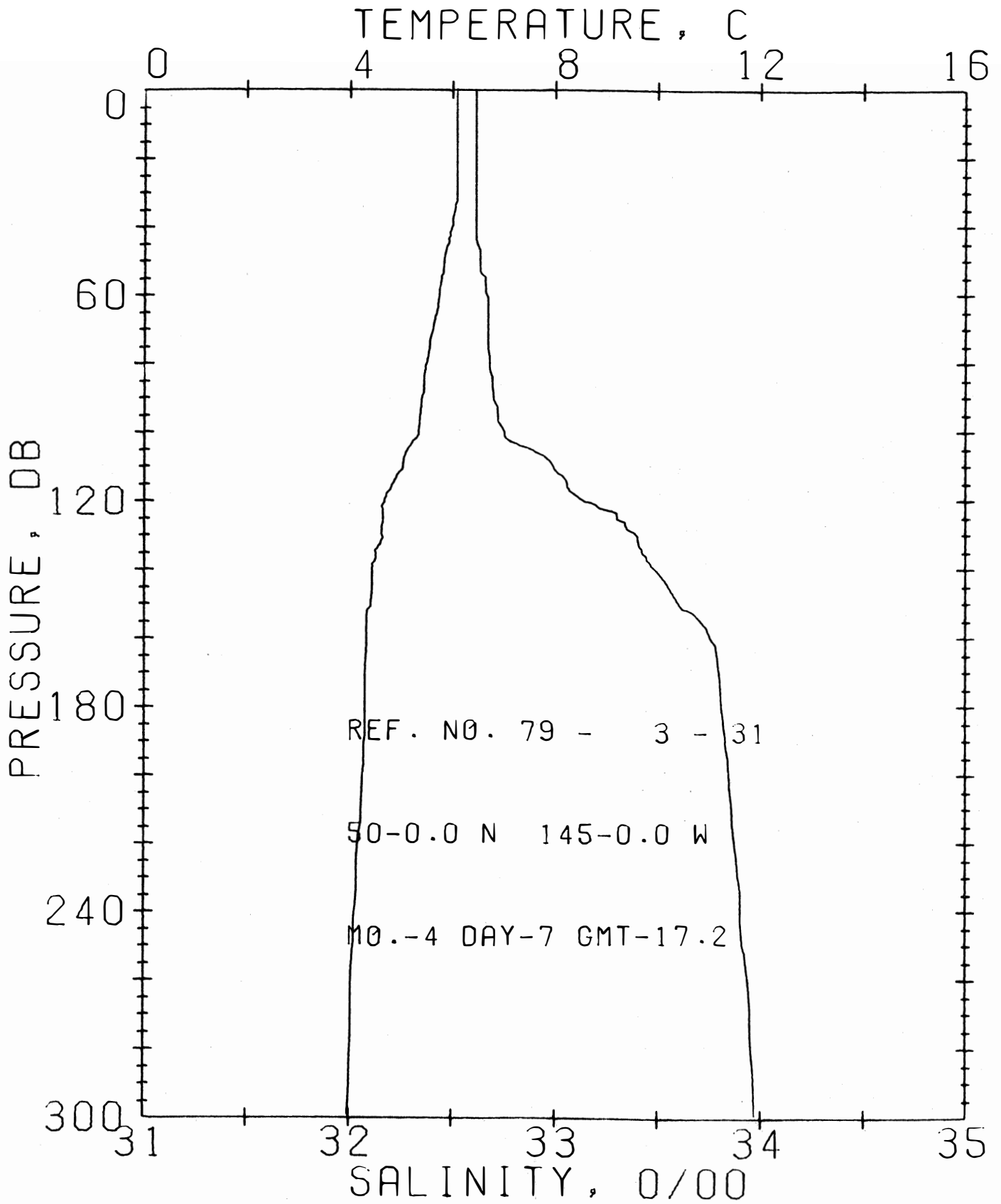
GMT 17.3

STATION P

RESULTS OF STP CAST 218 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	6.20	32.61	0	25.67	233.3	.00	.00	1473.
10	6.20	32.61	10	25.67	233.5	.23	.01	1473.
20	6.21	32.61	20	25.66	233.7	.47	.05	1473.
30	6.20	32.61	30	25.67	233.7	.70	.11	1473.
50	5.94	32.61	50	25.70	230.8	1.17	.30	1472.
75	5.64	32.67	75	25.78	223.2	1.73	.66	1472.
100	5.36	32.70	99	25.84	218.0	2.28	1.15	1471.
125	4.57	33.16	124	26.29	175.2	2.78	1.72	1469.
150	4.36	33.46	149	26.55	150.8	3.19	2.29	1469.
175	4.37	33.76	174	26.79	128.6	3.54	2.87	1470.
200	4.23	33.84	199	26.86	121.7	3.85	3.47	1469.
225	4.13	33.87	223	26.90	118.2	4.15	4.11	1470.
250	4.09	33.91	248	26.93	115.4	4.45	4.82	1470.
300	4.06	33.98	298	26.99	110.0	5.01	6.40	1471.
400	3.88	34.06	397	27.08	102.7	6.08	10.21	1472.
500	3.74	34.13	496	27.15	96.7	7.08	14.78	1473.
600	3.58	34.21	595	27.22	90.0	8.01	20.00	1474.
800	3.19	34.35	793	27.37	77.2	9.67	31.84	1476.
1000	2.87	34.42	990	27.46	69.6	11.14	45.27	1478.
1200	2.64	34.46	1188	27.51	65.2	12.48	60.27	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 31

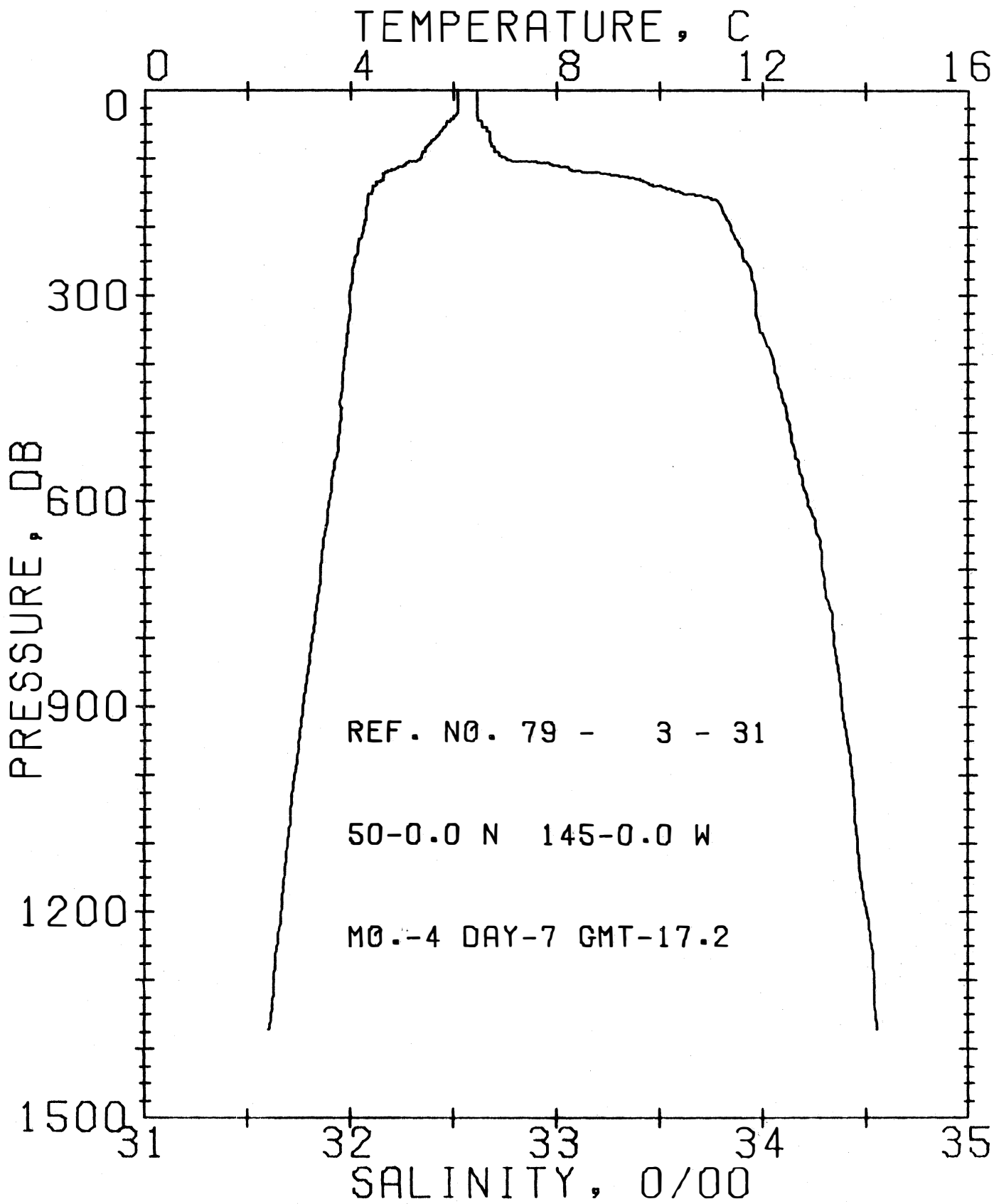
DATE 7/ 4/79

POSITION 50- .0N, 145- .0W GMT 17.2 STATION P

RESULTS OF STP CAST 114 POINTS TAKEN FROM ANALOG TRACE

GUIDELINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	6.08	32.61	0	25.68	231.9	.00	.00	1472.
10	6.08	32.61	10	25.68	232.0	.23	.01	1472.
20	6.08	32.61	20	25.68	232.2	.46	.05	1473.
30	6.08	32.61	30	25.68	232.3	.70	.11	1473.
40	6.00	32.61	40	25.69	231.4	.93	.19	1473.
50	5.84	32.63	50	25.73	228.2	1.16	.29	1472.
60	5.73	32.66	60	25.77	224.3	1.38	.42	1472.
70	5.61	32.67	70	25.78	222.8	1.61	.57	1472.
80	5.48	32.68	79	25.81	220.6	1.83	.74	1471.
90	5.42	32.70	89	25.83	218.6	2.05	.93	1471.
100	5.34	32.75	99	25.88	214.0	2.27	1.14	1471.
110	5.01	32.99	109	26.11	192.6	2.47	1.36	1470.
120	4.67	33.14	119	26.26	177.7	2.65	1.57	1469.
130	4.62	33.40	129	26.47	157.8	2.82	1.78	1469.
140	4.44	33.48	139	26.56	149.6	2.97	2.00	1469.
150	4.40	33.60	149	26.66	140.7	3.12	2.21	1469.
160	4.31	33.75	159	26.78	128.6	3.25	2.42	1469.
170	4.30	33.80	169	26.82	125.2	3.38	2.63	1469.
180	4.30	33.81	179	26.83	124.1	3.50	2.86	1469.
190	4.29	33.83	189	26.85	122.6	3.63	3.09	1470.
200	4.25	33.85	199	26.87	121.1	3.75	3.33	1470.
210	4.21	33.86	208	26.88	119.9	3.87	3.58	1470.
220	4.16	33.87	218	26.90	118.3	3.99	3.84	1470.
230	4.13	33.89	228	26.92	116.7	4.11	4.11	1470.
240	4.10	33.90	238	26.92	115.9	4.22	4.39	1470.
250	4.06	33.91	248	26.94	114.6	4.34	4.68	1470.
260	4.03	33.94	258	26.96	112.7	4.45	4.98	1470.
270	4.03	33.95	268	26.97	111.7	4.56	5.28	1470.
280	4.02	33.95	278	26.98	111.4	4.68	5.59	1470.
290	4.00	33.96	288	26.99	110.5	4.79	5.91	1470.
300	3.98	33.97	298	26.99	109.9	4.90	6.24	1470.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 31

DATE 7/ 4/79

POSITION 50- .0N, 145- .0W

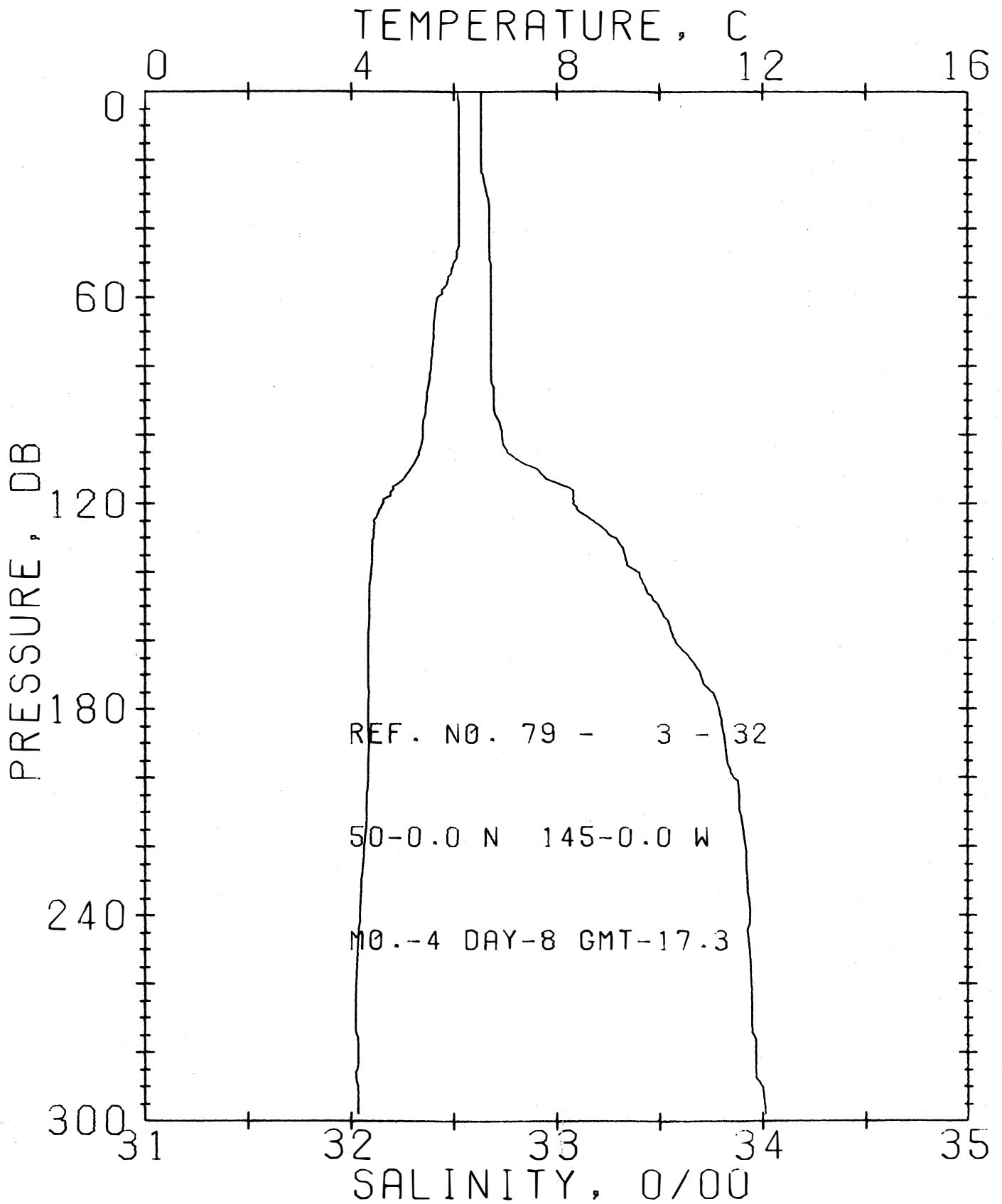
GMT 17.2

STATION P

RESULTS OF STP CAST 198 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	6.08	32.61	0	25.68	231.9	.00	.00	1472.
10	6.08	32.61	10	25.68	232.0	.23	.01	1472.
20	6.08	32.61	20	25.68	232.2	.46	.05	1473.
30	6.08	32.61	30	25.68	232.3	.70	.11	1473.
50	5.84	32.63	50	25.73	228.2	1.16	.29	1472.
75	5.55	32.67	75	25.79	222.1	1.72	.65	1471.
100	5.34	32.75	99	25.88	214.0	2.27	1.14	1471.
125	4.63	33.30	124	26.39	165.4	2.74	1.68	1469.
150	4.40	33.60	149	26.66	140.7	3.12	2.21	1469.
175	4.30	33.80	174	26.83	124.6	3.44	2.74	1469.
200	4.25	33.85	199	26.87	121.1	3.75	3.33	1470.
225	4.14	33.88	223	26.91	117.5	4.05	3.98	1470.
250	4.06	33.91	248	26.94	114.6	4.34	4.68	1470.
300	3.98	33.97	298	26.99	109.9	4.90	6.24	1470.
400	3.87	34.05	397	27.07	103.5	5.98	10.09	1472.
500	3.78	34.13	496	27.14	97.1	6.98	14.67	1473.
600	3.58	34.22	595	27.23	89.7	7.91	19.91	1474.
800	3.26	34.35	793	27.37	77.8	9.57	31.74	1476.
1000	2.91	34.44	990	27.47	68.9	11.04	45.16	1478.
1200	2.65	34.50	1188	27.54	62.5	12.36	59.94	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 32

DATE 8/ 4/79

POSITION 50- .0N, 145- .0W

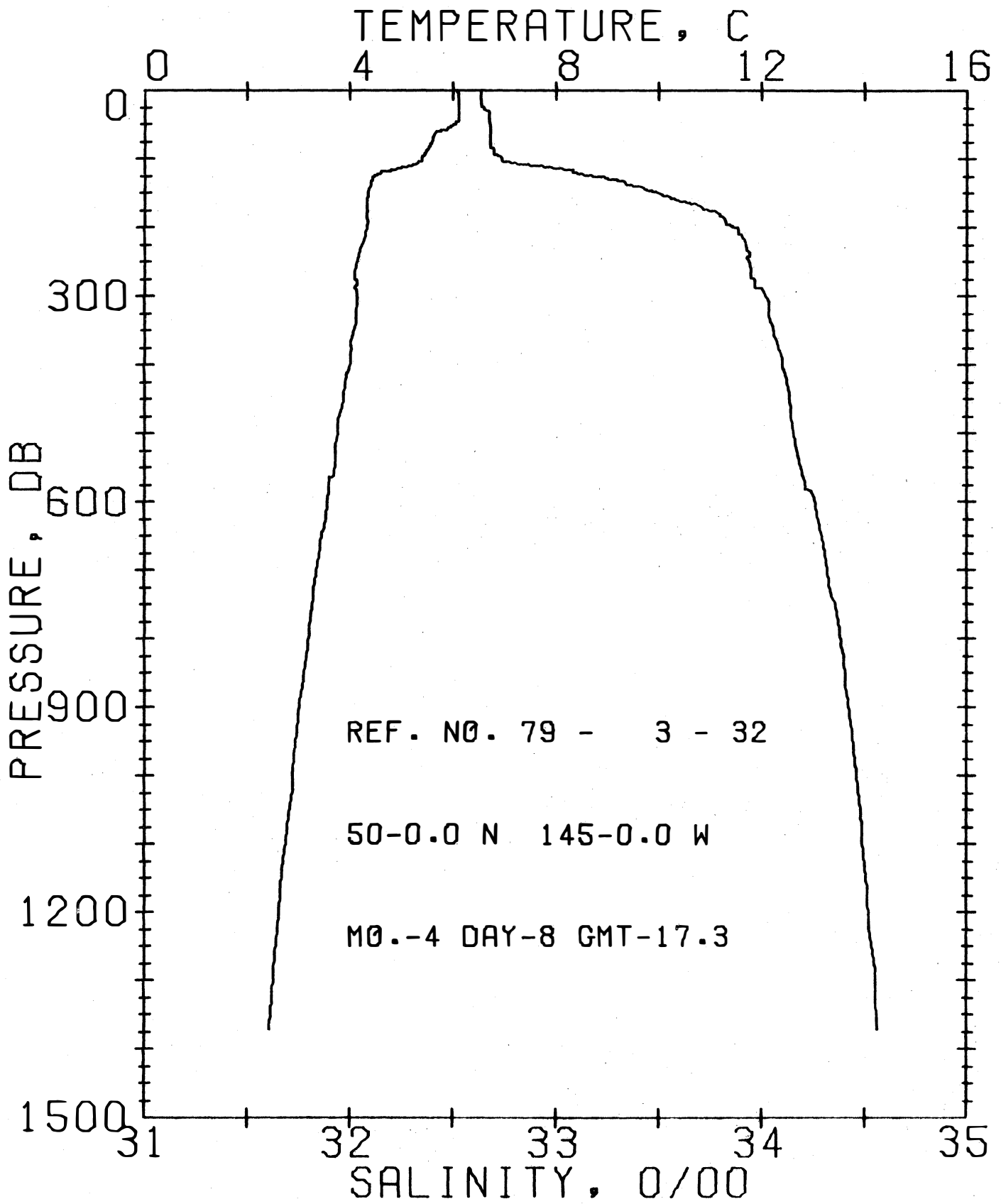
GMT 17.3

STATION P

RESULTS OF STP CAST 128 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	6.08	32.63	0	25.70	230.4	.00	.00	1472.
10	6.11	32.63	10	25.69	230.9	.23	.01	1473.
20	6.11	32.63	20	25.69	231.0	.46	.05	1473.
30	6.11	32.66	30	25.71	229.1	.69	.11	1473.
40	6.12	32.67	40	25.72	228.4	.92	.19	1473.
50	6.00	32.68	50	25.75	226.3	1.15	.29	1473.
60	5.69	32.68	60	25.78	222.8	1.37	.42	1472.
70	5.60	32.68	70	25.79	221.9	1.60	.57	1472.
80	5.54	32.68	79	25.80	221.3	1.82	.73	1471.
90	5.46	32.69	89	25.82	219.8	2.04	.93	1471.
100	5.38	32.73	99	25.86	216.0	2.26	1.14	1471.
110	5.15	32.91	109	26.03	200.0	2.47	1.36	1471.
120	4.60	33.08	119	26.22	181.5	2.66	1.58	1469.
130	4.42	33.29	129	26.41	164.0	2.83	1.80	1468.
140	4.36	33.40	139	26.50	155.2	2.99	2.03	1468.
150	4.34	33.50	149	26.58	147.8	3.14	2.25	1469.
160	4.32	33.57	159	26.64	142.0	3.29	2.48	1469.
170	4.32	33.69	169	26.74	133.0	3.42	2.71	1469.
180	4.32	33.79	179	26.81	126.1	3.55	2.94	1470.
190	4.34	33.82	189	26.84	124.0	3.68	3.18	1470.
200	4.31	33.86	199	26.87	120.7	3.80	3.42	1470.
210	4.29	33.89	208	26.90	118.2	3.92	3.67	1470.
220	4.25	33.92	218	26.92	116.0	4.04	3.92	1470.
230	4.19	33.93	228	26.94	114.5	4.15	4.19	1470.
240	4.15	33.94	238	26.95	113.5	4.27	4.46	1470.
250	4.12	33.94	248	26.95	113.4	4.38	4.75	1470.
260	4.09	33.95	258	26.96	112.5	4.49	5.04	1470.
270	4.08	33.95	268	26.97	112.2	4.60	5.34	1470.
280	4.13	33.97	278	26.98	111.3	4.72	5.66	1471.
290	4.12	34.00	288	27.00	109.1	4.83	5.98	1471.
300	4.13	34.01	298	27.01	108.1	4.94	6.30	1471.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 32

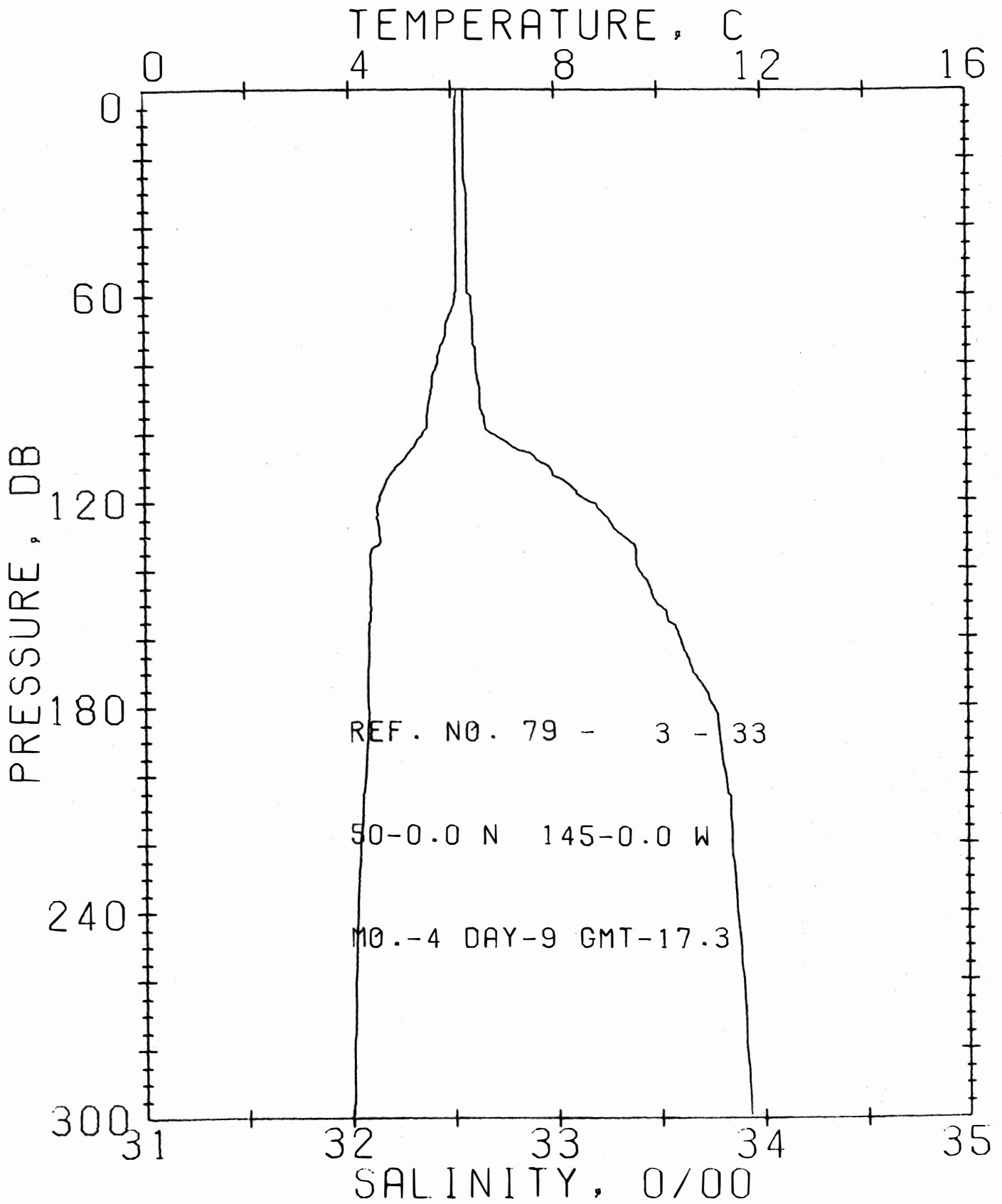
DATE 8/ 4/79

POSITION 50- .0N, 145- .0W GMT 17.3 STATION P

RESULTS OF STP CAST 208 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	6.08	32.63	0	25.70	230.4	.00	.00	1472.
10	6.11	32.63	10	25.69	230.9	.23	.01	1473.
20	6.11	32.63	20	25.69	231.0	.46	.05	1473.
30	6.11	32.66	30	25.71	229.1	.69	.11	1473.
50	6.00	32.68	50	25.75	226.3	1.15	.29	1473.
75	5.57	32.68	75	25.80	221.6	1.71	.65	1471.
100	5.36	32.73	99	25.86	216.0	2.26	1.14	1471.
125		33.18	124	26.32	172.4	2.74	1.69	1468.
150	4.34	33.50	149	26.58	147.8	3.14	2.25	1469.
175	4.34	33.76	174	26.79	128.3	3.49	2.82	1469.
200	4.31	33.86	199	26.87	120.7	3.80	3.42	1470.
225	4.23	33.92	223	26.93	115.6	4.09	4.06	1470.
250	4.12	33.94	248	26.95	113.4	4.38	4.75	1470.
300	4.13	34.01	298	27.01	108.1	4.94	6.30	1471.
400	3.99	34.10	397	27.09	101.1	5.98	10.03	1472.
500	3.75	34.15	496	27.16		6.96	14.52	1473.
600	3.56	34.25	595	27.26	86.6	7.88	19.68	1474.
800	3.18	34.38	793	27.40	74.4	9.49	31.08	1476.
1000	2.88	34.46	990	27.49	66.7	10.89	43.95	1478.
1200	2.61	34.52	1188	27.56	60.9	12.16	58.18	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 33

DATE 9/ 4/79

POSITION 50- .0N, 145- .0W

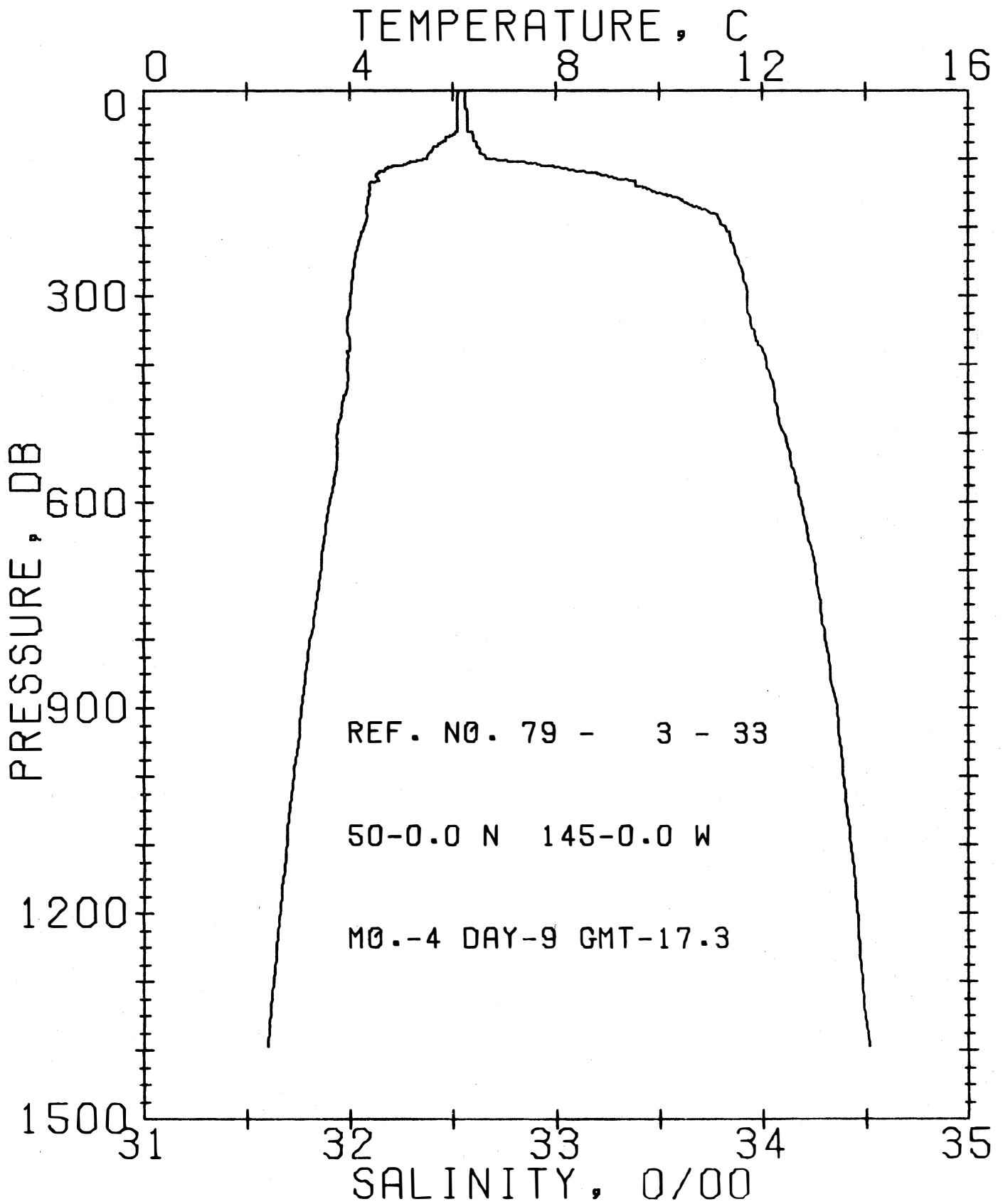
GMT 17.3

STATION P

RESULTS OF STP CAST 122 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	6.10	32.56	0	25.64	235.9	.00	.00	1472.
10	6.09	32.56	10	25.64	235.9	.24	.01	1472.
20	6.09	32.56	20	25.64	236.0	.47	.05	1473.
30	6.09	32.57	30	25.65	235.4	.71	.11	1473.
40	6.09	32.57	40	25.65	235.5	.94	.19	1473.
50	6.08	32.57	50	25.65	235.5	1.18	.30	1473.
60	6.06	32.59	60	25.67	233.9	1.41	.43	1473.
70	5.87	32.60	70	25.70	231.0	1.65	.59	1473.
80	5.70	32.61	79	25.73	228.4	1.88	.76	1472.
90	5.54	32.63	89	25.76	225.2	2.10	.96	1472.
100	5.42	32.68	99	25.81	220.2	2.33	1.17	1471.
110	4.88	32.97	109	26.10	192.6	2.53	1.40	1470.
120	4.56	33.15	119	26.28	175.8	2.72	1.61	1469.
130	4.57	33.32	129	26.42	163.3	2.89	1.83	1469.
140	4.38	33.40	139	26.50	155.4	3.04	2.04	1469.
150	4.37	33.49	149	26.57	148.6	3.20	2.27	1469.
160	4.35	33.60	159	26.66	140.3	3.34	2.49	1469.
170	4.32	33.66	169	26.71	135.6	3.48	2.73	1469.
180	4.33	33.76	179	26.79	128.3	3.61	2.96	1470.
190	4.30	33.79	189	26.82	125.5	3.74	3.20	1470.
200	4.27	33.82	199	26.84	123.5	3.86	3.45	1470.
210	4.21	33.84	209	26.87	121.3	3.98	3.70	1470.
220	4.16	33.85	218	26.88	120.1	4.10	3.97	1470.
230	4.12	33.86	228	26.89	118.9	4.22	4.24	1470.
240	4.10	33.87	238	26.90	118.0	4.34	4.53	1470.
250	4.08	33.89	248	26.92	116.5	4.46	4.82	1470.
260	4.06	33.90	258	26.93	115.8	4.57	5.12	1470.
270	4.05	33.91	268	26.94	115.0	4.69	5.43	1470.
280	4.03	33.91	278	26.94	114.6	4.80	5.75	1470.
290	4.02	33.92	288	26.95	113.9	4.92	6.09	1470.
300	4.00	33.93	298	26.96	113.1	5.03	6.43	1470.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 33

DATE 9/ 4/79

POSITION 50- .0N, 145- .0W

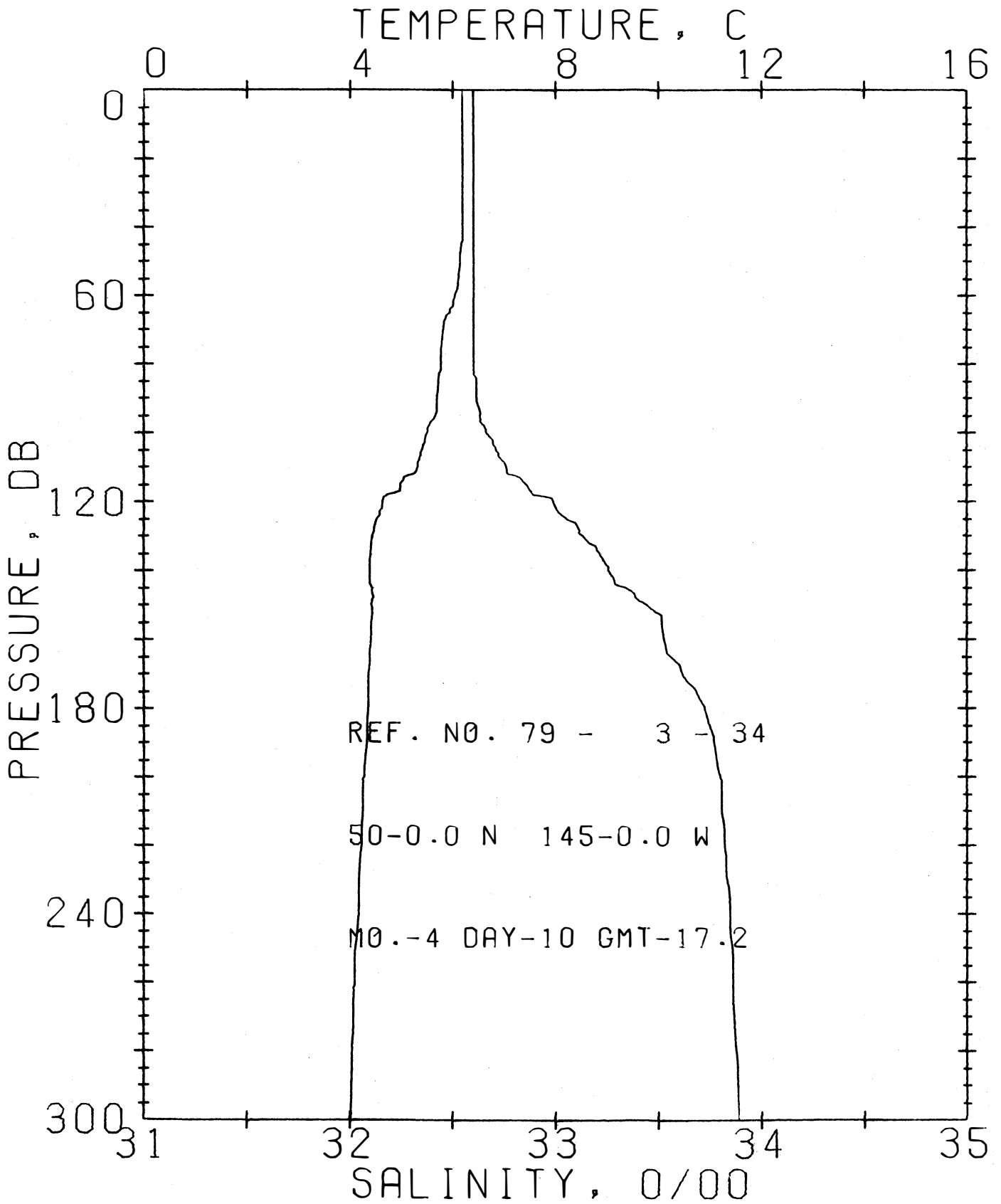
GMT 17.3

STATION P

RESULTS OF STP CAST 212 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	6.10	32.56	0	25.64	235.9	.00	.00	1472.
10	6.09	32.56	10	25.64	235.9	.24	.01	1472.
20	6.09	32.56	20	25.64	236.0	.47	.05	1473.
30	6.09	32.57	30	25.65	235.4	.71	.11	1473.
50	6.08	32.57	50	25.65	235.5	1.18	.30	1473.
75	5.75	32.61	75	25.72	228.9	1.76	.67	1472.
100	5.42	32.68	99	25.81	220.2	2.33	1.17	1471.
125	4.51	33.25	124	26.37	167.9	2.80	1.72	1469.
150	4.37	33.49	149	26.57	148.6	3.20	2.27	1469.
175	4.33	33.72	174	26.76	131.3	3.54	2.84	1469.
200	4.27	33.82	199	26.84	123.5	3.86	3.45	1470.
225	4.14	33.85	223	26.88	119.7	4.16	4.10	1470.
250	4.08	33.89	248	26.92	116.5	4.46	4.82	1470.
300	4.00	33.93	298	26.96	113.1	5.03	6.43	1470.
400	3.95	34.02	397	27.04	106.7	6.14	10.38	1472.
500	3.76	34.10	496	27.12	99.5	7.17	15.11	1473.
600	3.59	34.18	595	27.20	92.3	8.14	20.49	1474.
800	3.21	34.30	793	27.33	81.0	9.86	32.77	1476.
1000	2.90	34.39	990	27.43	72.1	11.38	46.68	1478.
1200	2.63	34.46	1188	27.51	65.4	12.75	62.05	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 34

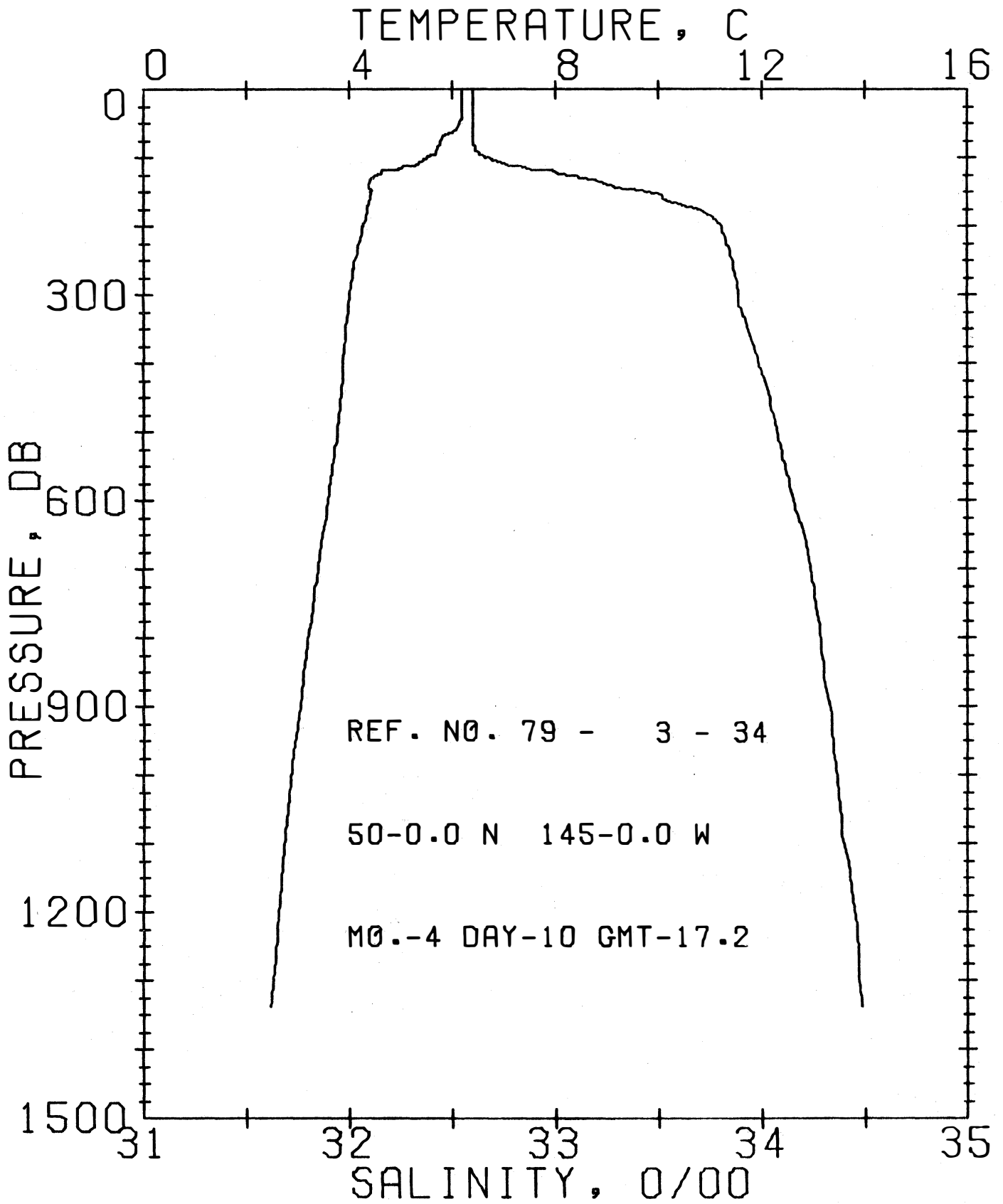
DATE 10/ 4/79

POSITION 50- .0N, 145- .0W GMT 17.2 STATION P

RESULTS OF STP CAST 120 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	6.19	32.60	0	25.66	234.0	.00	.00	1473.
10	6.18	32.60	10	25.66	234.0	.23	.01	1473.
20	6.18	32.60	20	25.66	234.1	.47	.05	1473.
30	6.18	32.60	30	25.66	234.2	.70	.11	1473.
40	6.18	32.60	40	25.66	234.3	.94	.19	1473.
50	6.14	32.60	50	25.67	233.9	1.17	.30	1473.
60		32.60	60	25.68	232.6	1.40	.43	1473.
70	5.80	32.60	70	25.71	230.2	1.64	.58	1472.
80	5.76	32.60	79	25.71	229.8	1.87	.76	1472.
90	5.69	32.61	89	25.73	228.4	2.09	.96	1472.
100	5.48	32.66	99	25.79	222.3	2.32	1.18	1471.
110	5.31	32.76	109	25.89	213.0	2.54	1.41	1471.
120	4.61	32.99	119	26.15	188.3	2.74	1.65	1469.
130	4.43	33.13	129	26.28	176.1	2.92	1.88	1468.
140	4.36	33.25	139	26.38	166.4	3.09	2.11	1468.
150	4.41	33.44	149	26.53	152.8	3.25	2.35	1469.
160	4.40	33.52	159	26.60	146.4	3.40	2.58	1469.
170	4.35	33.61	169	26.67	139.6	3.55	2.82	1469.
180	4.34	33.72	179	26.76	131.0	3.68	3.06	1469.
190	4.31	33.77	189	26.80	127.2	3.81	3.31	1470.
200	4.27	33.80	199	26.83	124.8	3.94	3.56	1470.
210	4.23	33.81	209	26.84	123.7	4.06	3.82	1470.
220	4.21	33.82	218	26.85	122.9	4.18	4.09	1470.
230	4.15	33.83	228	26.87	121.3	4.30	4.37	1470.
240	4.14	33.85	238	26.88	120.1	4.42	4.66	1470.
250	4.10	33.86	248	26.89	119.2	4.54	4.95	1470.
260	4.07	33.86	258	26.90	118.8	4.66	5.26	1470.
270	4.04	33.87	268	26.90	118.0	4.78	5.58	1470.
280	4.03	33.88	278	26.91	117.2	4.90	5.91	1470.
290	4.01	33.88	288	26.92	116.6	5.02	6.25	1470.
300	4.00	33.89	298	26.93	116.1	5.13	6.60	1470.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 34

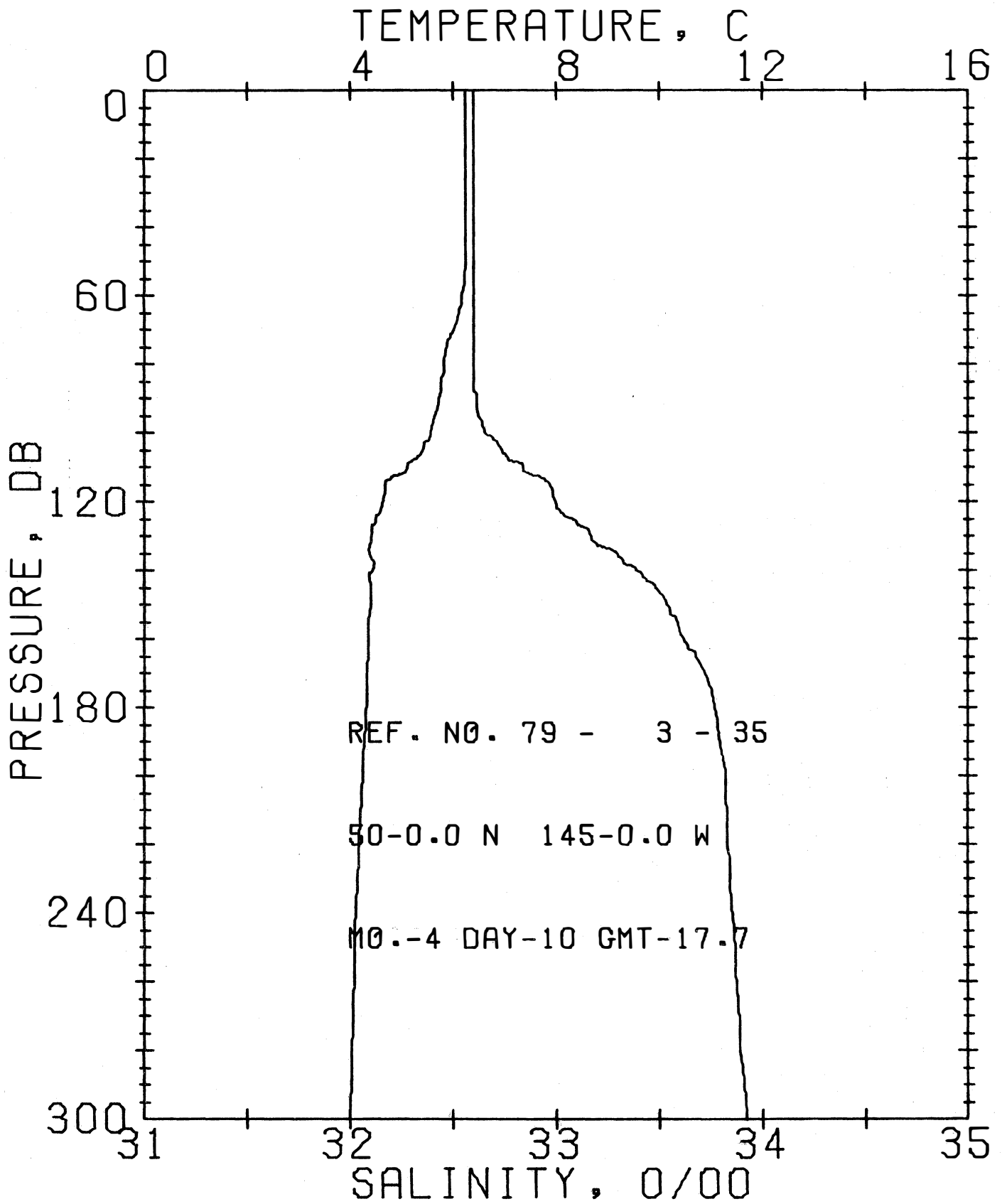
DATE 10/ 4/79

POSITION 50- .0N, 145- .0W GMT 17.2 STATION P

RESULTS OF STP CAST 192 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	6.19	32.60	0	25.66	234.0	.00	.00	1473.
10	6.18	32.60	10	25.66	234.0	.23	.01	1473.
20	6.18	32.60	20	25.66	234.1	.47	.05	1473.
30	6.18	32.60	30	25.66	234.2	.70	.11	1473.
50	6.14	32.60	50	25.67	233.9	1.17	.30	1473.
75	5.78	32.60	75	25.71	230.0	1.75	.67	1472.
100	5.48	32.66	99	25.79	222.3	2.32	1.18	1471.
125	4.50	33.05	124	26.21	182.8	2.83	1.76	1468.
150	4.41	33.44	149	26.53	152.8	3.25	2.35	1469.
175	4.35	33.68	174	26.72	134.6	3.61	2.94	1469.
200	4.27	33.80	199	26.83	124.8	3.94	3.56	1470.
225	4.18	33.83	223	26.86	121.8	4.24	4.23	1470.
250	4.10	33.86	248	26.89	119.2	4.54	4.95	1470.
300	4.00	33.89	298	26.93	116.1	5.13	6.60	1470.
400	3.87	33.99	397	27.02	108.4	6.26	10.62	1471.
500	3.77	34.07	496	27.10	101.6	7.31	15.42	1473.
600	3.57	34.15	595	27.18	94.6	8.29	20.92	1474.
800	3.19	34.29	793	27.32	81.7	10.04	33.36	1476.
1000	2.87	34.37	990	27.41	73.7	11.59	47.60	1478.
1200	2.61	34.45	1188	27.50	65.9	12.99	63.26	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 35

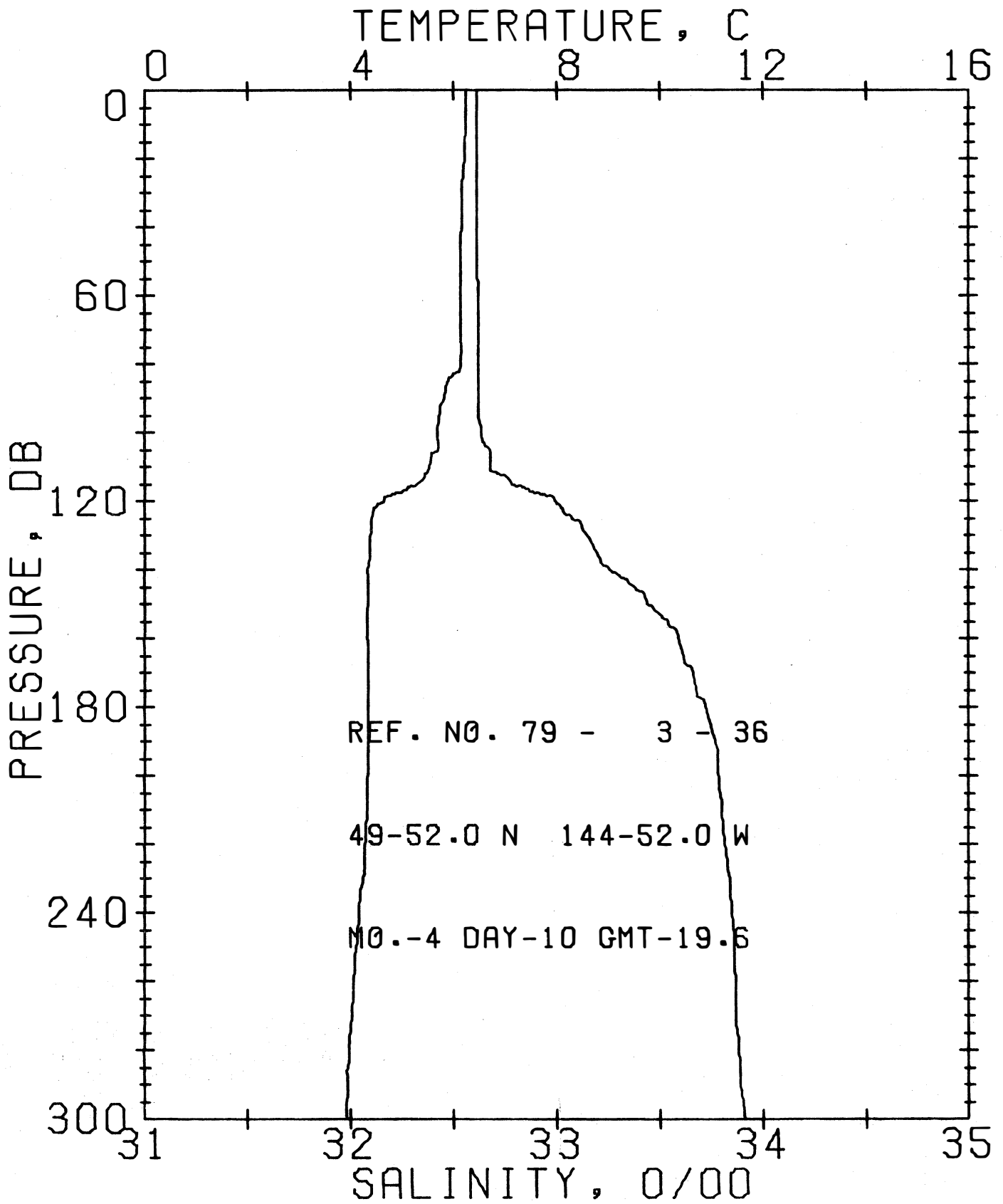
DATE 10/ 4/79

POSITION 50- .0N, 145- .0W GMT 17.7 STATION P

RESULTS OF STP CAST 119 POINTS TAKEN FROM ANALOG TRACE

GUIDELINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	6.24	32.60	0	25.65	234.6	.00	.00	1473.
10	6.24	32.60	10	25.65	234.7	.23	.01	1473.
20	6.23	32.60	20	25.65	234.7	.47	.05	1473.
30	6.23	32.60	30	25.65	234.8	.70	.11	1473.
40	6.23	32.60	40	25.65	234.9	.94	.19	1473.
50	6.23	32.60	50	25.65	235.0	1.17	.30	1474.
60	6.16	32.60	60	25.66	234.3	1.41	.43	1474.
70	5.99	32.60	70	25.68	232.4	1.64	.59	1473.
80	5.80	32.60	79	25.71	230.3	1.87	.76	1472.
90	5.71	32.61	89	25.73	228.6	2.10	.96	1472.
100	5.54	32.65	99	25.78	223.8	2.33	1.18	1472.
110	5.09	32.84	109	25.98	204.6	2.55	1.41	1470.
120	4.63	32.99	119	26.15	188.6	2.74	1.64	1469.
130	4.41	33.16	129	26.31	173.4	2.92	1.87	1468.
140	4.44	33.39	139	26.48	156.8	3.09	2.10	1469.
150	4.39	33.53	149	26.60	145.8	3.24	2.32	1469.
160	4.35	33.61	159	26.67	139.5	3.38	2.54	1469.
170	4.33	33.72	169	26.76	131.2	3.51	2.77	1469.
180	4.31	33.76	179	26.80	127.6	3.64	3.00	1469.
190	4.26	33.79	189	26.82	125.2	3.77	3.24	1469.
200	4.23	33.82	199	26.85	122.9	3.89	3.48	1469.
210	4.20	33.83	209	26.86	122.2	4.01	3.74	1470.
220	4.16	33.83	218	26.86	121.6	4.14	4.01	1470.
230	4.14	33.84	228	26.87	120.7	4.26	4.29	1470.
240	4.10	33.85	238	26.89	119.5	4.38	4.57	1470.
250	4.08	33.87	248	26.90	118.3	4.50	4.87	1470.
260	4.06	33.87	258	26.91	117.7	4.61	5.18	1470.
270	4.04	33.88	268	26.92	116.7	4.73	5.49	1470.
280	4.02	33.89	278	26.92	116.2	4.85	5.82	1470.
290	4.01	33.91	288	26.94	114.9	4.96	6.15	1470.
300	4.00	33.92	298	26.95	113.9	5.08	6.50	1470.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 36

DATE 10/ 4/79

POSITION 49-52.0N, 144-52.0W

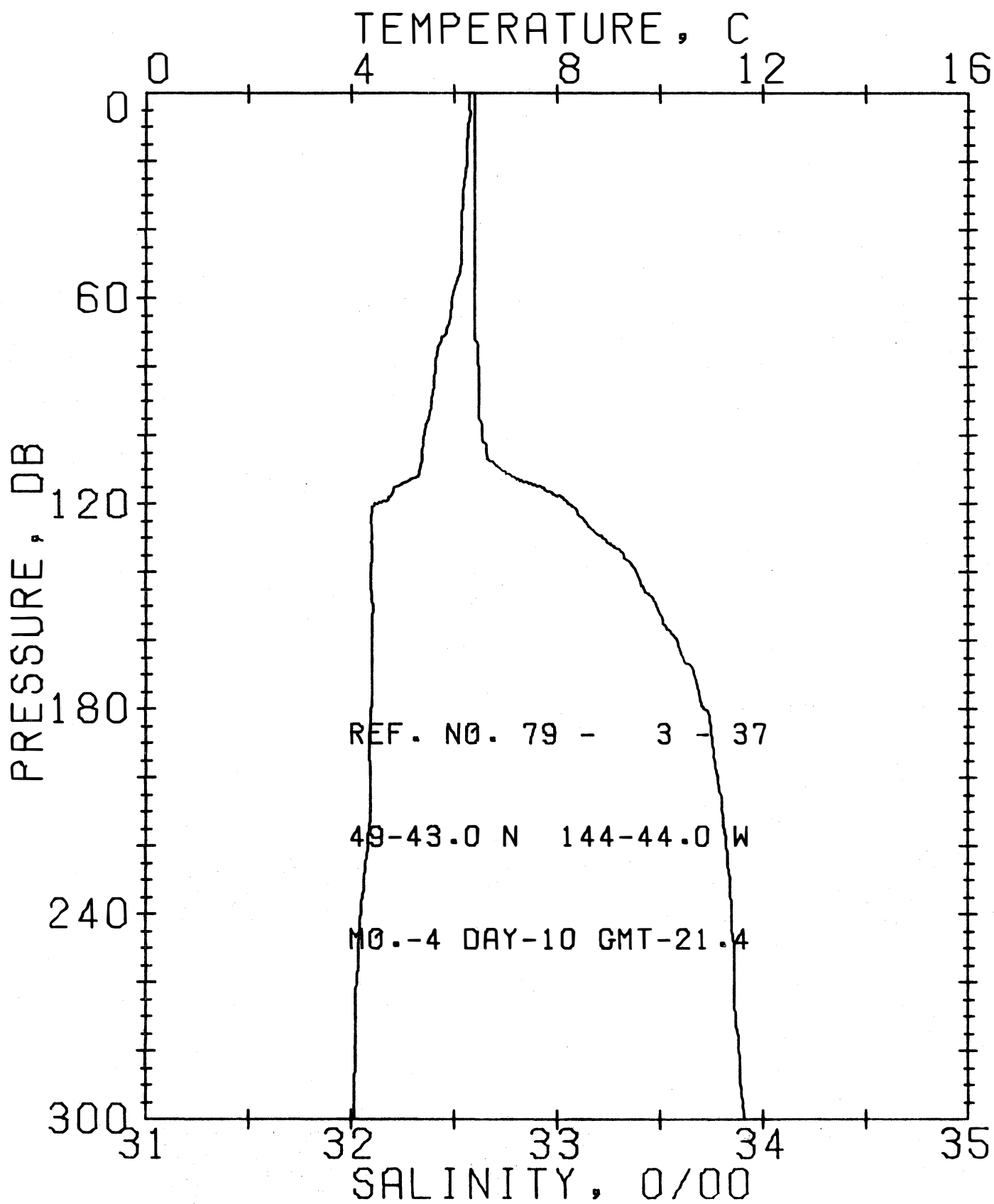
GMT 19.6

STATION E3

RESULTS OF STP CAST 112 POINTS TAKEN FROM ANALOG TRACE

GUIDELINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	6.23	32.61	0	25.66	233.7	.00	.00	1473.
10	6.23	32.61	10	25.66	233.8	.23	.01	1473.
20	6.21	32.61	20	25.66	233.7	.47	.05	1473.
30	6.16	32.61	30	25.67	233.2	.70	.11	1473.
40	6.15	32.61	40	25.67	233.2	.93	.19	1473.
50	6.14	32.61	50	25.67	233.2	1.17	.30	1473.
60	6.14	32.62	60	25.68	232.6	1.40	.43	1473.
70	6.14	32.62	70	25.68	232.7	1.63	.58	1474.
80	6.13	32.62	79	25.68	232.7	1.87	.76	1474.
90	5.81	32.62	89	25.72	229.0	2.10	.96	1473.
100	5.68	32.63	99	25.74	226.9	2.32	1.18	1472.
110	5.53	32.68	109	25.80	221.5	2.55	1.42	1472.
120	4.63	32.99	119	26.15	188.6	2.76	1.66	1469.
130	4.38	33.15	129	26.30	174.3	2.94	1.89	1468.
140	4.33	33.25	139	26.39	166.1	3.11	2.13	1468.
150	4.34	33.44	149	26.53	152.1	3.26	2.36	1469.
160	4.33	33.59	159	26.65	141.0	3.41	2.59	1469.
170	4.34	33.65	169	26.70	136.2	3.55	2.82	1469.
180	4.34	33.72	179	26.76	131.4	3.68	3.06	1469.
190	4.35	33.76	189	26.79	128.2	3.81	3.31	1470.
200	4.34	33.78	199	26.81	126.7	3.94	3.56	1470.
210	4.33	33.80	209	26.82	125.5	4.07	3.82	1470.
220	4.28	33.82	218	26.84	124.0	4.19	4.10	1470.
230	4.25	33.84	228	26.86	122.1	4.31	4.38	1470.
240	4.15	33.85	238	26.88	120.2	4.43	4.67	1470.
250	4.11	33.86	248	26.89	119.1	4.55	4.97	1470.
260	4.05	33.87	258	26.91	117.8	4.67	5.28	1470.
270	4.03	33.87	268	26.91	117.7	4.79	5.59	1470.
280	3.98	33.88	278	26.92	116.5	4.91	5.92	1470.
290	3.95	33.89	288	26.93	115.5	5.02	6.26	1470.
300	3.93	33.91	298	26.95	113.9	5.14	6.60	1470.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 37

DATE 10/ 4/79

POSITION 49-43.0N, 144-44.0W

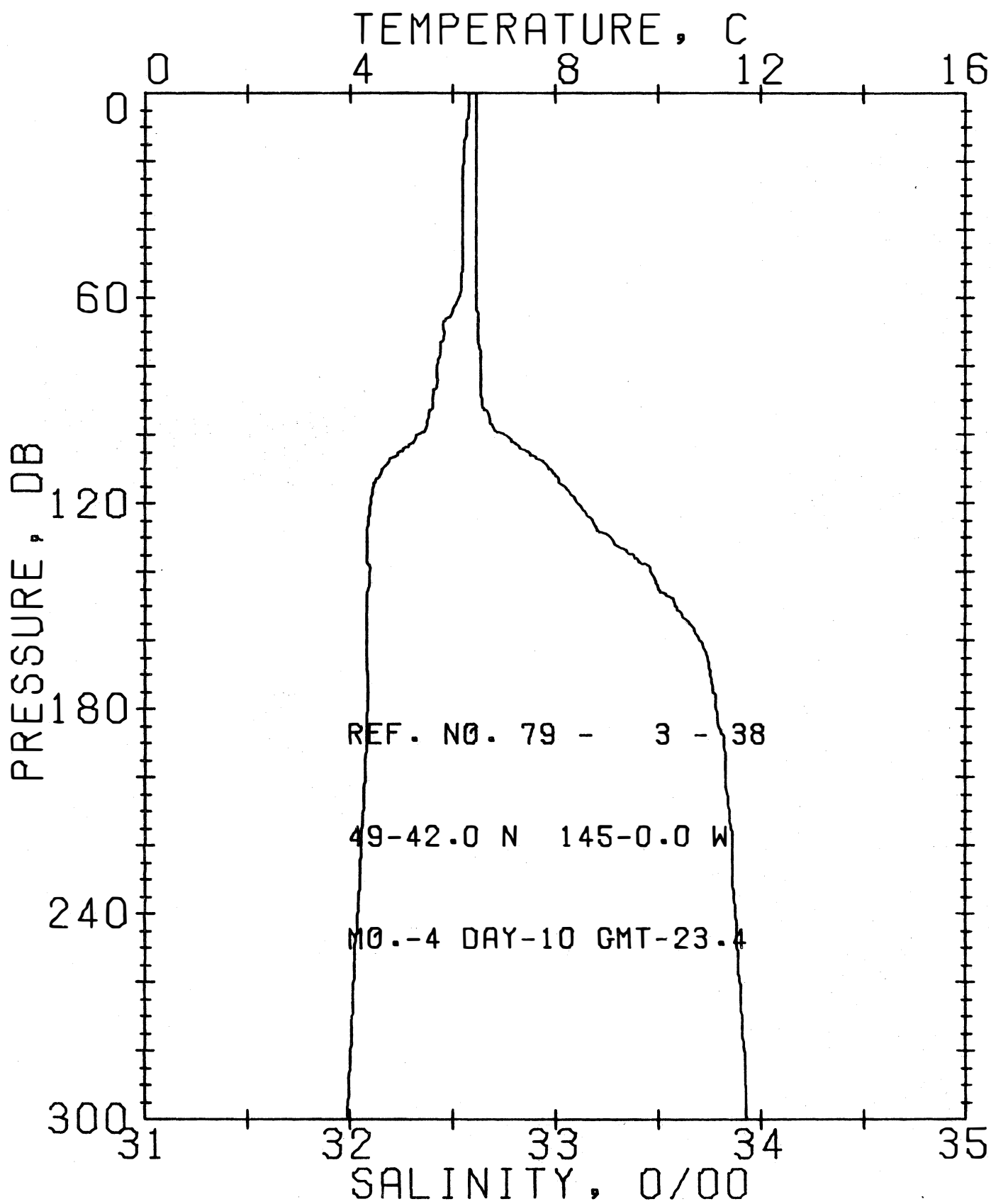
GMT 21.4

STATION E4

RESULTS OF STP CAST 141 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	6.30	32.60	0	25.65	235.3	.00	.00	1473.
10	6.27	32.60	10	25.65	235.0	.24	.01	1473.
20	6.23	32.60	20	25.65	234.7	.47	.05	1473.
30	6.16	32.60	30	25.66	234.0	.70	.11	1473.
40	6.14	32.60	40	25.67	233.8	.94	.19	1473.
50	6.13	32.60	50	25.67	233.8	1.17	.30	1473.
60	5.95	32.60	60	25.69	231.8	1.40	.43	1473.
70	5.83	32.60	70	25.70	230.5	1.64	.58	1472.
80	5.62	32.62	79	25.74	227.0	1.86	.76	1472.
90	5.55	32.62	89	25.75	226.0	2.09	.95	1472.
100	5.40	32.63	99	25.78	223.7	2.32	1.17	1471.
110	5.32	32.72	109	25.86	215.8	2.54	1.41	1471.
120	4.46	33.05	119	26.21	182.3	2.74	1.64	1468.
130	4.39	33.22	129	26.36	168.9	2.91	1.86	1468.
140	4.37	33.38	139	26.48	156.8	3.07	2.09	1469.
150	4.42	33.48	149	26.56	149.9	3.23	2.31	1469.
160	4.40	33.58	159	26.64	142.3	3.37	2.55	1469.
170	4.39	33.66	169	26.70	136.3	3.51	2.78	1469.
180	4.37	33.71	179	26.75	132.4	3.65	3.02	1470.
190	4.35	33.75	189	26.78	129.3	3.78	3.27	1470.
200	4.37	33.78	199	26.80	127.4	3.91	3.52	1470.
210	4.37	33.80	209	26.82	125.7	4.03	3.78	1470.
220	4.31	33.82	218	26.84	123.9	4.16	4.06	1470.
230	4.24	33.84	228	26.86	121.8	4.28	4.34	1470.
240	4.18	33.85	238	26.88	120.5	4.40	4.63	1470.
250	4.13	33.86	248	26.89	119.3	4.52	4.93	1470.
260	4.09	33.86	258	26.89	119.0	4.64	5.24	1470.
270	4.09	33.87	268	26.90	118.3	4.76	5.56	1470.
280	4.08	33.88	278	26.91	117.2	4.88	5.89	1470.
290	4.06	33.89	288	26.92	116.5	4.99	6.23	1470.
300	4.05	33.91	298	26.94	115.0	5.11	6.58	1470.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 38

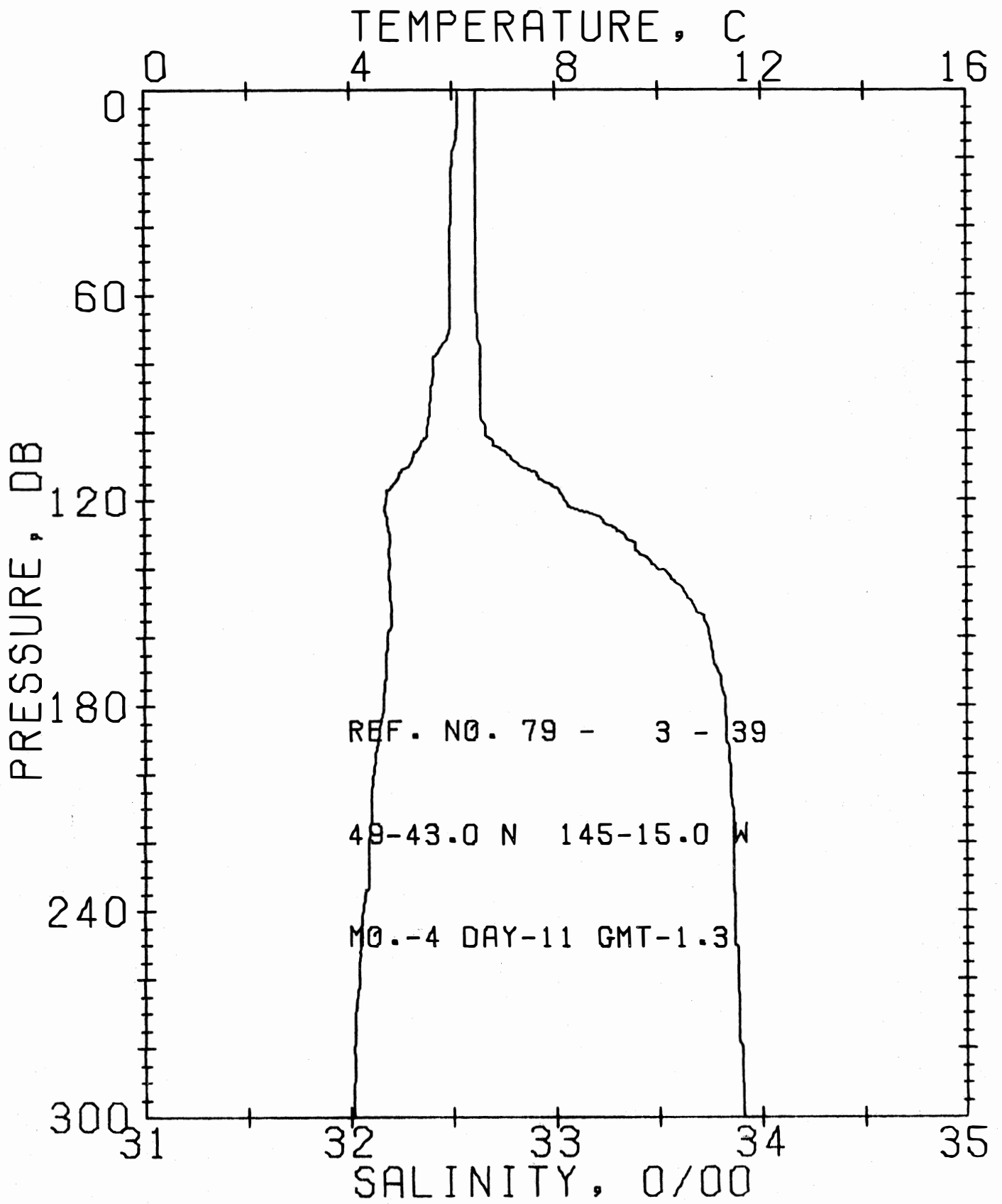
DATE 10/ 4/79

POSITION 49-42.0N, 145- .0W GMT 23.4 STATION C1

RESULTS OF STP CAST 124 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	6.31	32.61	0	25.65	234.7	.00	.00	1473.
10	6.28	32.61	10	25.66	234.4	.23	.01	1473.
20	6.21	32.61	20	25.67	233.6	.47	.05	1473.
30	6.19	32.61	30	25.67	233.6	.70	.11	1473.
40	6.19	32.61	40	25.67	233.6	.94	.19	1473.
50	6.18	32.61	50	25.67	233.7	1.17	.30	1473.
60	6.11	32.61	60	25.68	233.0	1.40	.43	1473.
70	5.84	32.62	70	25.72	229.1	1.63	.58	1472.
80	5.69	32.63	79	25.74	226.8	1.86	.76	1472.
90	5.59	32.64	89	25.76	225.0	2.09	.95	1472.
100	5.29	32.75	99	25.89	213.5	2.31	1.17	1471.
110	4.62	32.97	109	26.13	189.9	2.51	1.38	1469.
120	4.38	33.10	119	26.26	177.5	2.69	1.60	1468.
130	4.31	33.26	129	26.40	164.8	2.87	1.82	1468.
140	4.38	33.46	139	26.55	150.9	3.02	2.03	1469.
150	4.31	33.58	149	26.65	141.3	3.17	2.25	1469.
160	4.33	33.70	159	26.74	132.6	3.31	2.46	1469.
170	4.34	33.75	169	26.78	128.7	3.44	2.68	1469.
180	4.34	33.78	179	26.81	126.6	3.56	2.91	1470.
190	4.31	33.82	189	26.84	123.5	3.69	3.15	1470.
200	4.29	33.83	199	26.85	122.8	3.81	3.39	1470.
210	4.24	33.85	209	26.87	121.2	3.93	3.65	1470.
220	4.21	33.86	218	26.88	119.8	4.05	3.91	1470.
230	4.18	33.86	228	26.88	119.7	4.17	4.18	1470.
240	4.14	33.88	238	26.90	118.2	4.29	4.47	1470.
250	4.08	33.88	248	26.91	117.1	4.41	4.76	1470.
260	4.06	33.90	258	26.93	115.9	4.53	5.07	1470.
270	4.03	33.91	268	26.94	115.0	4.64	5.38	1470.
280	4.01	33.92	278	26.95	114.0	4.76	5.70	1470.
290	3.98	33.92	288	26.96	113.2	4.87	6.03	1470.
300	3.95	33.93	298	26.96	112.6	4.98	6.37	1470.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 39

DATE 11/ 4/79

POSITION 49-43.0N, 145-15.0W

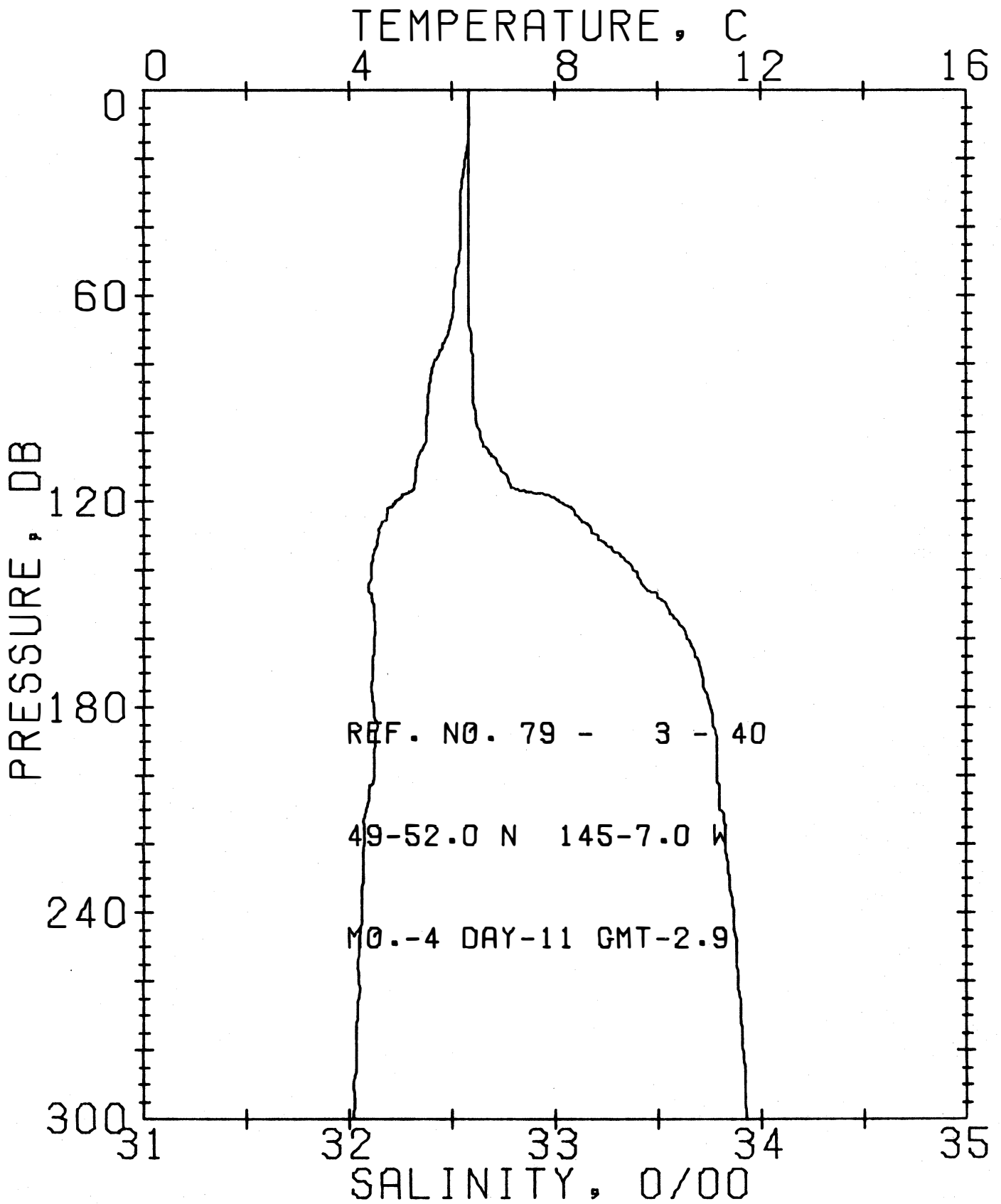
GMT 1.3

STATION W4

RESULTS OF STP CAST 140 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	6.11	32.61	0	25.68	232.3	.00	.00	1472.
10	6.12	32.61	10	25.68	232.5	.23	.01	1473.
20	6.00	32.61	20	25.69	231.2	.46	.05	1472.
30	5.97	32.61	30	25.69	231.0	.70	.11	1472.
40	5.96	32.61	40	25.69	231.0	.93	.19	1472.
50	5.96	32.61	50	25.70	231.1	1.16	.29	1473.
60	5.96	32.61	60	25.70	231.2	1.39	.42	1473.
70	5.93	32.62	70	25.71	230.2	1.62	.58	1473.
80	5.63	32.63	79	25.75	226.1	1.85	.75	1472.
90	5.56	32.63	89	25.76	225.4	2.07	.95	1472.
100	5.49	32.66	99	25.79	222.5	2.30	1.16	1472.
110	5.15	32.82	109	25.96	206.8	2.51	1.39	1471.
120	4.69	33.04	119	26.18	185.4	2.71	1.62	1469.
130	4.78	33.33	129	26.40	164.8	2.88	1.84	1470.
140	4.77	33.49	139	26.53	152.8	3.04	2.06	1470.
150	4.79	33.66	149	26.66	140.4	3.19	2.28	1471.
160	4.72	33.74	159	26.73	133.5	3.32	2.49	1471.
170	4.69	33.79	169	26.77	129.7	3.45	2.72	1471.
180	4.63	33.82	179	26.80	126.9	3.58	2.94	1471.
190	4.54	33.83	189	26.82	125.3	3.71	3.18	1471.
200	4.44	33.85	199	26.85	122.9	3.83	3.43	1470.
210	4.39	33.86	209	26.86	121.8	3.95	3.68	1470.
220	4.35	33.86	218	26.87	121.3	4.08	3.95	1470.
230	4.35	33.86	228	26.87	121.4	4.20	4.23	1471.
240	4.23	33.87	238	26.89	119.5	4.32	4.52	1470.
250	4.18	33.87	248	26.89	119.1	4.44	4.81	1470.
260	4.17	33.88	258	26.90	118.3	4.56	5.12	1470.
270	4.09	33.89	268	26.92	116.7	4.67	5.44	1470.
280	4.05	33.90	278	26.93	115.7	4.79	5.77	1470.
290	4.06	33.90	288	26.93	115.5	4.91	6.10	1470.
300	4.04	33.91	298	26.94	115.0	5.02	6.45	1470.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 40

DATE 11/ 4/79

POSITION 49-52.0N, 145- 7.0W

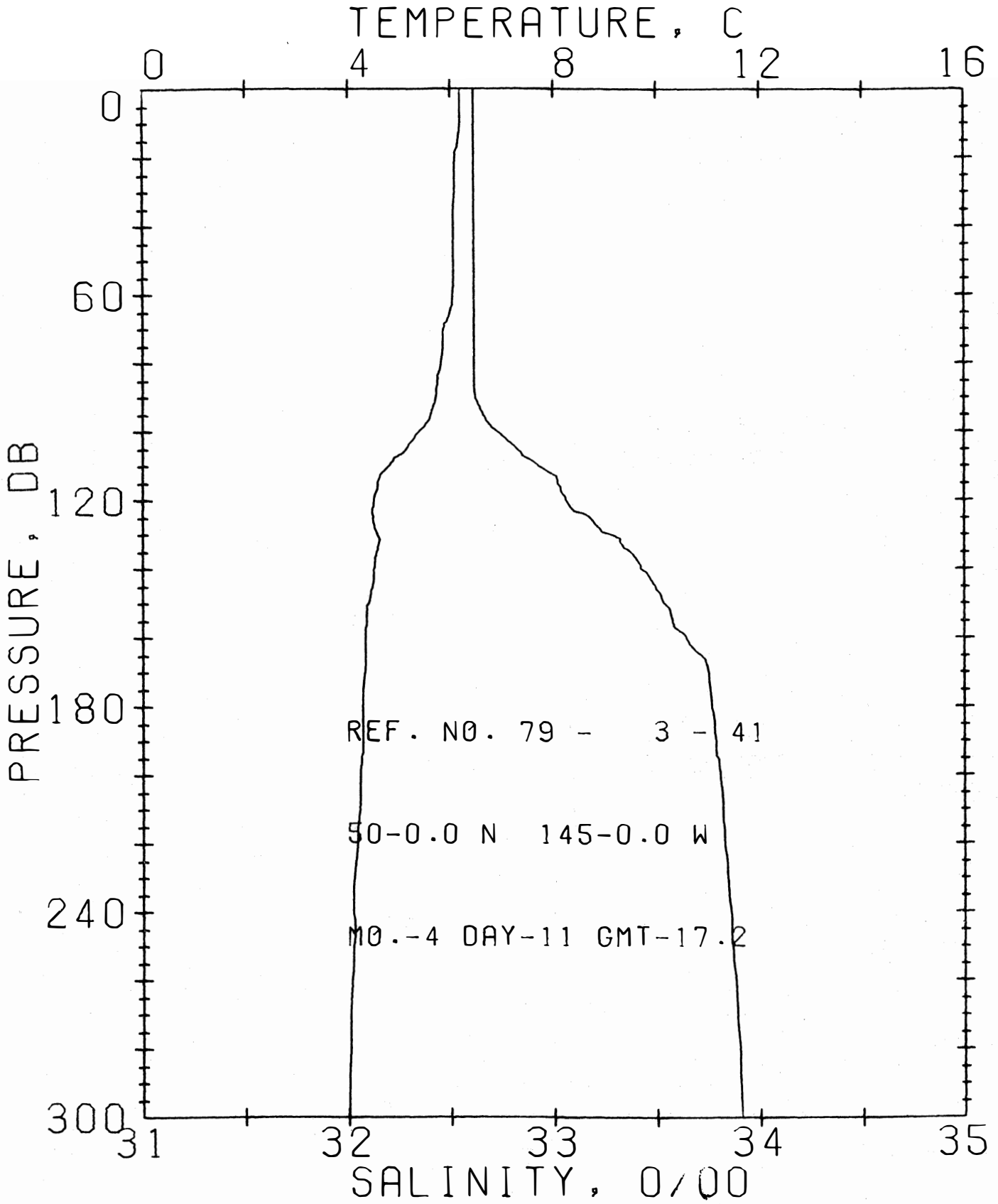
GMT 2.9

STATION W3

RESULTS OF STP CAST 157 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	6.33	32.58	0	25.63	237.1	.00	.00	1473.
10	6.35	32.58	10	25.62	237.5	.24	.01	1473.
20	6.26	32.58	20	25.63	236.5	.47	.05	1473.
30	6.18	32.58	30	25.65	235.6	.71	.11	1473.
40	6.16	32.58	40	25.65	235.6	.95	.19	1473.
50	6.13	32.58	50	25.65	235.3	1.18	.30	1473.
60	6.02	32.58	60	25.66	234.1	1.42	.43	1473.
70	5.93	32.59	70	25.68	232.8	1.65	.59	1473.
80	5.63	32.60	79	25.73	228.3	1.88	.76	1472.
90	5.52	32.60	89	25.74	227.2	2.11	.96	1471.
100	5.50	32.63	99	25.77	224.8	2.33	1.18	1472.
110	5.30	32.73	109	25.87	215.2	2.55	1.42	1471.
120	4.92	33.02	119	26.14	189.4	2.76	1.66	1470.
130	4.55	33.21	129	26.33	171.3	2.94	1.89	1469.
140	4.44	33.38	139	26.48	157.5	3.11	2.11	1469.
150	4.49	33.54	149	26.60	146.1	3.26	2.34	1469.
160	4.48	33.64	159	26.68	138.6	3.40	2.56	1470.
170	4.45	33.71	169	26.74	133.2	3.54	2.79	1470.
180	4.47	33.75	179	26.77	130.5	3.67	3.02	1470.
190	4.50	33.79	189	26.80	127.9	3.80	3.27	1470.
200	4.48	33.79	199	26.80	127.8	3.92	3.52	1471.
210	4.33	33.80	209	26.82	125.5	4.05	3.79	1470.
220	4.29	33.83	218	26.85	123.0	4.17	4.06	1470.
230	4.26	33.85	228	26.87	121.2	4.30	4.34	1470.
240	4.24	33.87	238	26.88	119.7	4.42	4.63	1470.
250	4.20	33.88	248	26.90	118.5	4.54	4.92	1470.
260	4.19	33.89	258	26.91	117.8	4.65	5.23	1470.
270	4.16	33.90	268	26.92	116.8	4.77	5.55	1470.
280	4.12	33.91	278	26.93	115.5	4.89	5.87	1470.
290	4.08	33.92	288	26.94	114.7	5.00	6.21	1470.
300	4.09	33.93	298	26.95	114.1	5.12	6.55	1471.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 41

DATE 11/ 4/79

POSITION 50- .0N, 145- .0W

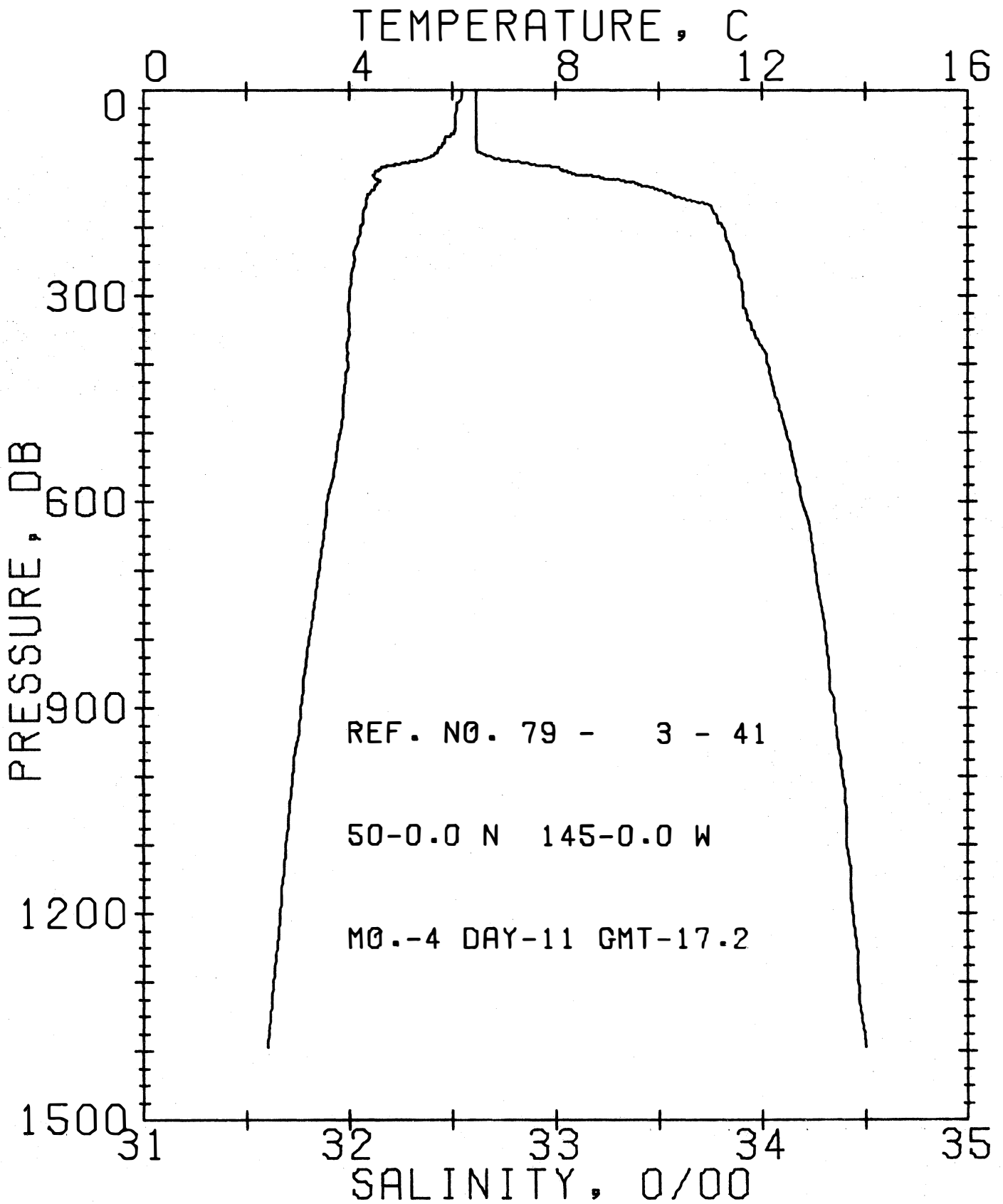
GMT 17.2

STATION P

RESULTS OF STP CAST 122 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	6.18	32.61	0	25.67	233.1	.00	.00	1473.
10	6.18	32.61	10	25.67	233.2	.23	.01	1473.
20	6.08	32.61	20	25.68	232.2	.47	.05	1473.
30	6.07	32.61	30	25.68	232.1	.70	.11	1473.
40	6.06	32.61	40	25.68	232.1	.93	.19	1473.
50	6.06	32.61	50	25.68	232.3	1.16	.30	1473.
60	6.03	32.61	60	25.69	232.0	1.39	.43	1473.
70	5.87	32.61	70	25.71	230.2	1.63	.58	1473.
80	5.80	32.61	79	25.71	229.5	1.86	.76	1472.
90	5.70	32.62	89	25.73	227.7	2.08	.95	1472.
100	5.39	32.72	99	25.85	216.5	2.31	1.17	1471.
110	4.81	32.93	109	26.08	194.9	2.51	1.39	1469.
120	4.49	33.06	119	26.22	181.9	2.70	1.61	1468.
130	4.55	33.28	129	26.39	166.1	2.88	1.83	1469.
140	4.51	33.42	139	26.50	155.3	3.04	2.05	1469.
150	4.40	33.53	149	26.60	145.9	3.18	2.27	1469.
160	4.33	33.64	159	26.69	137.1	3.33	2.50	1469.
170	4.32	33.75	169	26.78	128.8	3.46	2.72	1469.
180	4.27	33.77	179	26.80	126.9	3.59	2.95	1469.
190	4.26	33.79	189	26.82	125.4	3.71	3.18	1469.
200	4.22	33.81	199	26.84	123.5	3.84	3.43	1469.
210	4.19	33.82	209	26.85	122.6	3.96	3.69	1470.
220	4.15	33.83	218	26.86	121.5	4.08	3.96	1470.
230	4.10	33.84	228	26.88	120.0	4.20	4.23	1469.
240	4.09	33.86	238	26.89	118.9	4.32	4.52	1470.
250	4.09	33.87	248	26.90	118.4	4.44	4.82	1470.
260	4.06	33.88	258	26.91	117.2	4.56	5.12	1470.
270	4.03	33.89	268	26.92	116.2	4.68	5.44	1470.
280	4.02	33.90	278	26.93	115.5	4.79	5.76	1470.
290	4.01	33.90	288	26.94	115.2	4.91	6.10	1470.
300	3.99	33.91	298	26.94	114.5	5.02	6.44	1470.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 41

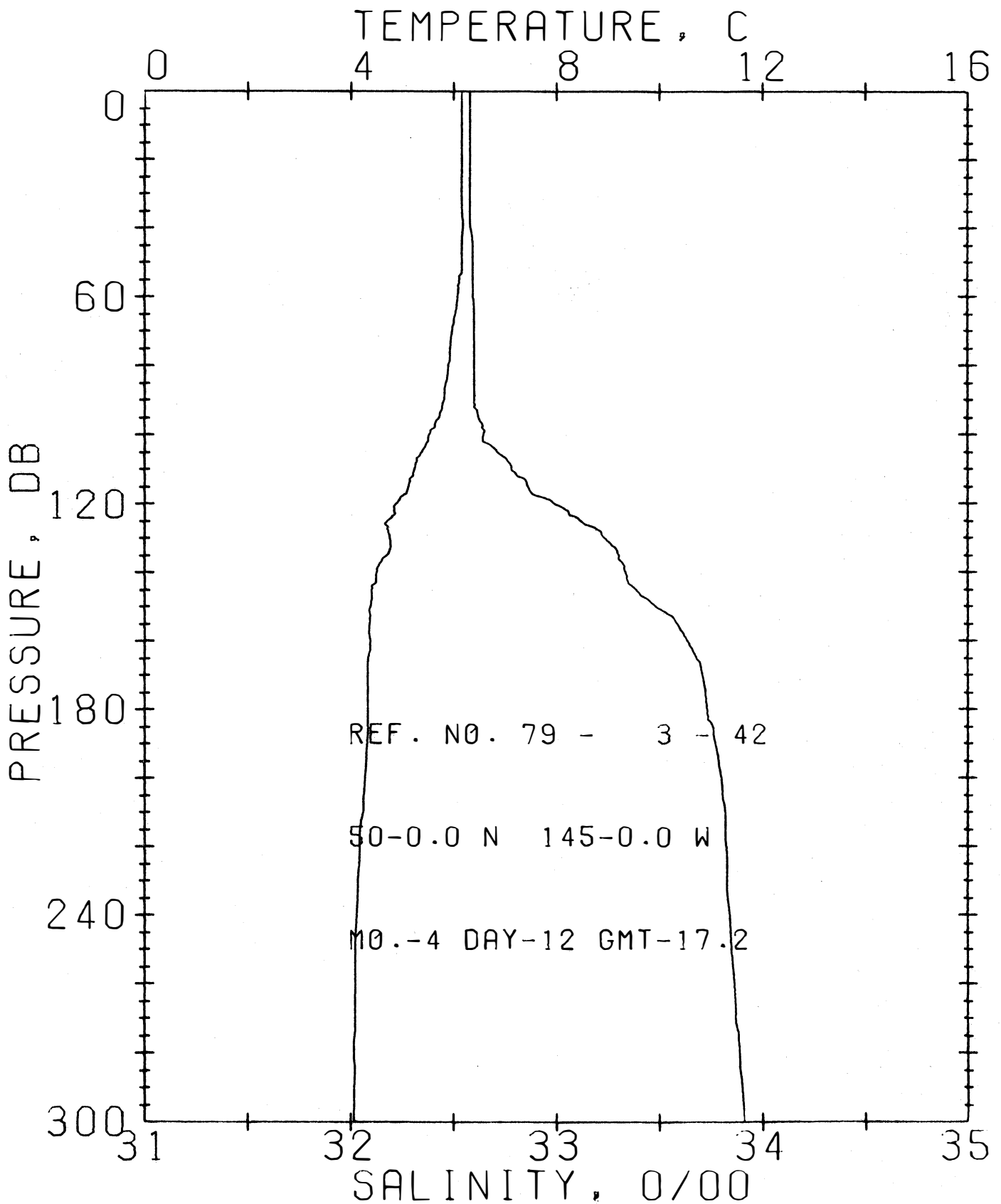
DATE 11/ 4/79

POSITION 50- .0N, 145- .0W GMT 17.2 STATION P

RESULTS OF STP CAST 203 POINTS TAKEN FROM ANALOG TRACE

GUIDELINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	6.18	32.61	0	25.67	233.1	.00	.00	1473.
10	6.18	32.61	10	25.67	233.2	.23	.01	1473.
20	6.08	32.61	20	25.68	232.2	.47	.05	1473.
30	6.07	32.61	30	25.68	232.1	.70	.11	1473.
50	6.06	32.61	50	25.68	232.3	1.16	.30	1473.
75	5.84	32.61	75	25.71	229.9	1.74	.66	1472.
100	5.39	32.72	99	25.85	216.5	2.31	1.17	1471.
125	4.47	33.18	124	26.32	172.7	2.79	1.72	1468.
150	4.40	33.53	149	26.60	145.9	3.18	2.27	1469.
175	4.29	33.76	174	26.79	127.9	3.52	2.83	1469.
200	4.22	33.81	199	26.84	123.5	3.84	3.43	1469.
225	4.12	33.84	223	26.87	120.5	4.14	4.09	1469.
250	4.09	33.87	248	26.90	118.4	4.44	4.82	1470.
300	3.99	33.91	298	26.94	114.5	5.02	6.44	1470.
400	3.97	34.02	397	27.04	106.7	6.13	10.40	1472.
500	3.81	34.11	496	27.12	99.3	7.16	15.12	1473.
600	3.57	34.19	595	27.20	91.9	8.12	20.45	1474.
800	3.19	34.31	793	27.34	80.0	9.83	32.64	1476.
1000	2.88	34.39	990	27.43	72.2	11.35	46.60	1478.
1200	2.64	34.44	1188	27.49	67.0	12.74	62.14	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 42

DATE 12/ 4/79

POSITION 50- .0N, 145- .0W

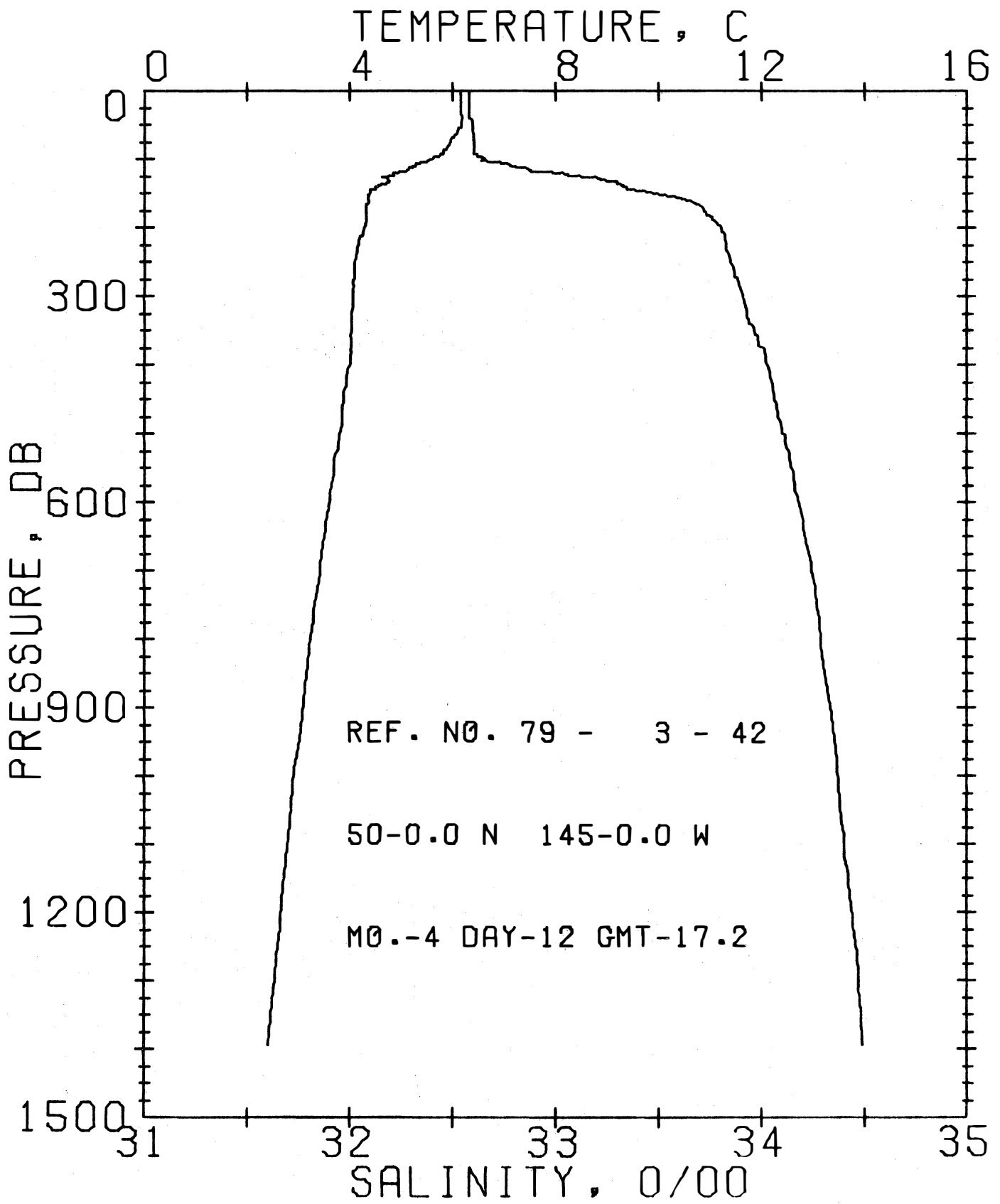
GMT 17.2

STATION P

RESULTS OF STP CAST 122 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	6.17	32.58	0	25.65	235.2	.00	.00	1473.
10	6.17	32.58	10	25.65	235.3	.24	.01	1473.
20	6.17	32.58	20	25.65	235.5	.47	.05	1473.
30	6.17	32.58	30	25.65	235.6	.71	.11	1473.
40	6.18	32.58	40	25.65	235.6	.94	.19	1473.
50	6.16	32.59	50	25.65	234.9	1.18	.30	1473.
60	6.06	32.59	60	25.67	233.7	1.41	.43	1473.
70	5.97	32.60	70	25.69	232.1	1.64	.59	1473.
80	5.90	32.60	79	25.69	231.4	1.88	.76	1473.
90	5.80	32.60	89	25.71	230.4	2.11	.96	1473.
100	5.52	32.64	99	25.78	223.9	2.33	1.18	1472.
110	5.23	32.78	109	25.92	210.7	2.55	1.42	1471.
120	4.87	32.99	119	26.12	191.1	2.75	1.65	1470.
130	4.76	33.23	129	26.33	171.7	2.93	1.88	1470.
140	4.50	33.34	139	26.43	161.5	3.10	2.11	1469.
150	4.37	33.48	149	26.56	149.4	3.26	2.34	1469.
160	4.36	33.63	159	26.68	138.1	3.40	2.57	1469.
170	4.33	33.70	169	26.75	132.3	3.53	2.79	1469.
180	4.33	33.73	179	26.76	130.8	3.67	3.03	1469.
190	4.31	33.77	189	26.80	127.4	3.79	3.27	1470.
200	4.27	33.80	199	26.83	124.8	3.92	3.52	1470.
210	4.23	33.82	209	26.85	123.0	4.04	3.78	1470.
220	4.17	33.82	218	26.86	122.2	4.17	4.05	1470.
230	4.14	33.83	228	26.86	121.5	4.29	4.33	1470.
240	4.11	33.84	238	26.88	120.5	4.41	4.62	1470.
250	4.09	33.85	248	26.89	119.6	4.53	4.92	1470.
260	4.07	33.86	258	26.90	118.7	4.65	5.23	1470.
270	4.08	33.87	268	26.90	118.2	4.77	5.55	1470.
280	4.05	33.89	278	26.92	116.5	4.88	5.88	1470.
290	4.06	33.90	288	26.93	116.1	5.00	6.21	1470.
300	4.04	33.91	298	26.94	115.0	5.12	6.56	1470.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 42

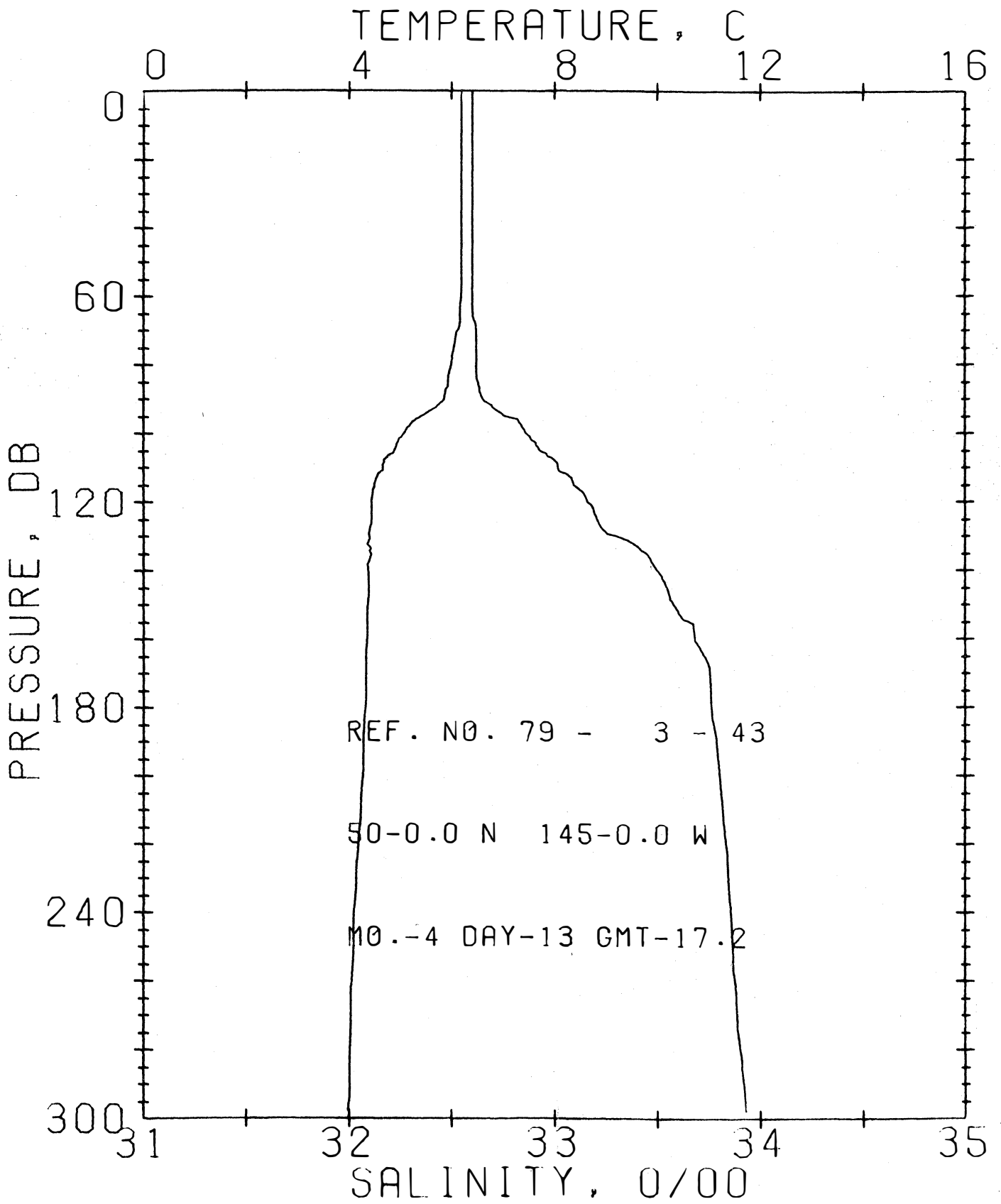
DATE 12/ 4/79

POSITION 50- .0N, 145- .0W GMT 17.2 STATION P

RESULTS OF STP CAST 200 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	6.17	32.58	0	25.65	235.2	.00	.00	1473.
10	6.17	32.58	10	25.65	235.3	.24	.01	1473.
20	6.17	32.58	20	25.65	235.5	.47	.05	1473.
30	6.17	32.58	30	25.65	235.6	.71	.11	1473.
50	6.16	32.59	50	25.65	234.9	1.18	.30	1473.
75	5.93	32.60	75	25.69	231.7	1.76	.67	1473.
100	5.52	32.64	99	25.78	223.9	2.33	1.18	1472.
125		33.11	124	26.24	180.0	2.85	1.77	1469.
150	4.37	33.48	149	26.56	149.4	3.26	2.34	1469.
175		33.72	174	26.76	131.2	3.60	2.91	1469.
200	4.27	33.80	199	26.83	124.8	3.92	3.52	1470.
225	4.16	33.83	223	26.86	121.6	4.23	4.19	1470.
250	4.09	33.85	248	26.89	119.6	4.53	4.92	1470.
300	4.04	33.91	298	26.94	115.0	5.12	6.56	1470.
400	3.98	34.02	397	27.04	106.7	6.23	10.52	1472.
500	3.80	34.10	496	27.12	99.7	7.26	15.24	1473.
600	3.59	34.17	595	27.19	92.9	8.22	20.62	1474.
800	3.22	34.29	793	27.32	82.0	9.96	32.98	1476.
1000	2.91	34.37	990	27.42	73.6	11.51	47.19	1478.
1200	2.65	34.44	1188	27.49	67.2	12.92	63.01	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 43

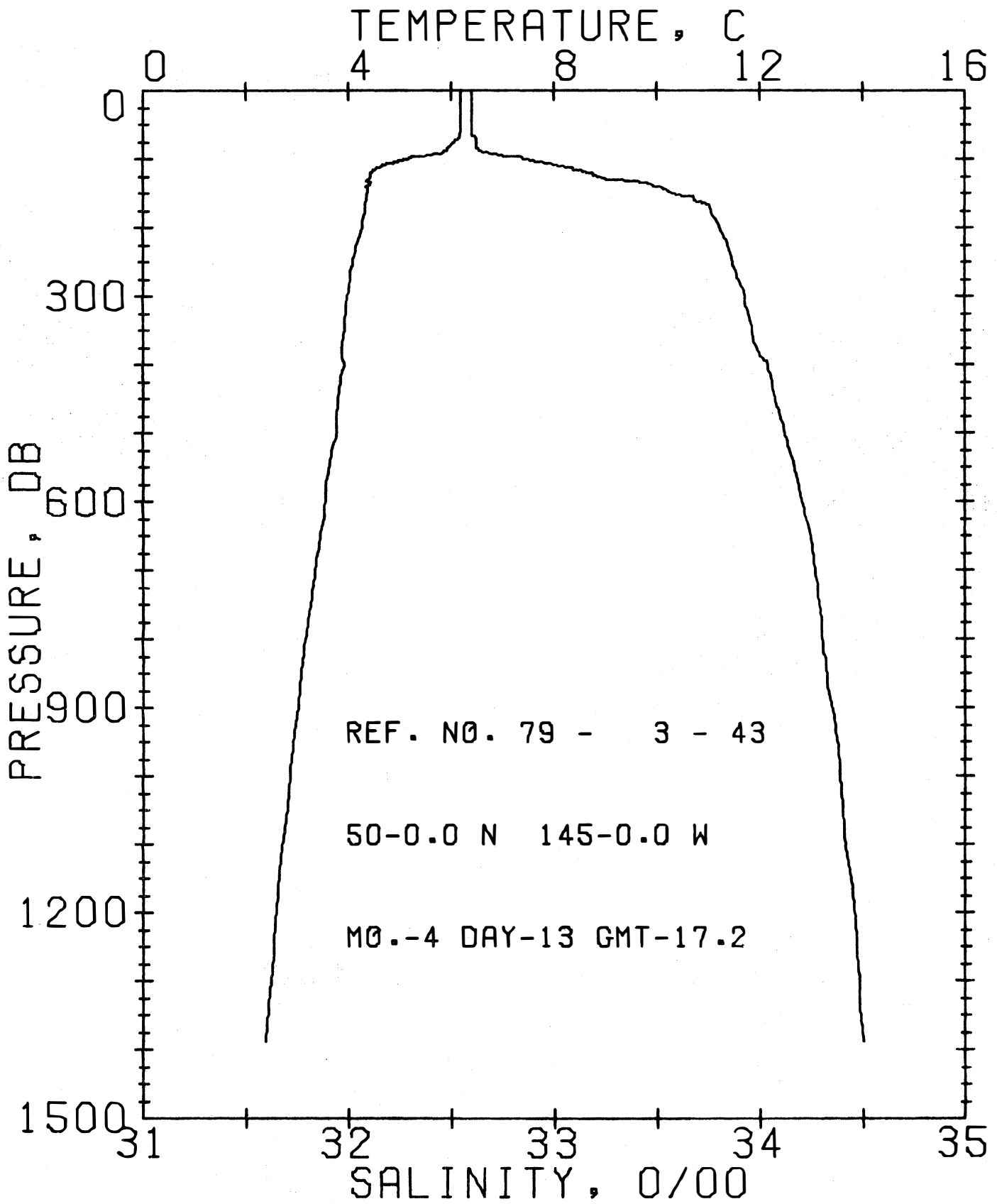
DATE 13/ 4/79

POSITION 50- .0N, 145- .0W GMT 17.2 STATION P

RESULTS OF STP CAST 100 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	6.18	32.60	0	25.66	233.9	.00	.00	1473.
10	6.18	32.60	10	25.66	234.0	.23	.01	1473.
20	6.18	32.60	20	25.66	234.1	.47	.05	1473.
30	6.18	32.60	30	25.66	234.2	.70	.11	1473.
40	6.18	32.60	40	25.66	234.3	.94	.19	1473.
50	6.18	32.60	50	25.66	234.4	1.17	.30	1473.
60	6.18	32.60	60	25.66	234.5	1.41	.43	1474.
70	6.14	32.62	70	25.68	232.7	1.64	.59	1474.
80	5.98	32.62	79	25.70	230.9	1.87	.76	1473.
90	5.84	32.64	89	25.74	227.7	2.10	.96	1473.
100	5.07	32.86	99	26.00	202.8	2.32	1.17	1470.
110	4.65	33.01	109	26.16	187.2	2.51	1.38	1469.
120	4.43	33.16	119	26.30	173.7	2.69	1.59	1468.
130	4.37	33.31	129	26.43	162.0	2.86	1.80	1468.
140	4.36	33.50	139	26.58	147.7	3.01	2.01	1469.
150	4.35	33.58	149	26.64	141.7	3.16	2.23	1469.
160	4.34	33.68	159	26.73	134.2	3.29	2.44	1469.
170	4.32	33.75	169	26.78	128.6	3.42	2.66	1469.
180	4.31	33.76	179	26.80	127.7	3.55	2.89	1469.
190	4.28	33.79	189	26.82	125.6	3.68	3.13	1470.
200	4.25	33.80	199	26.83	124.5	3.80	3.38	1470.
210	4.22	33.82	209	26.85	123.0	3.93	3.64	1470.
220	4.17	33.84	218	26.87	121.3	4.05	3.91	1470.
230	4.13	33.85	228	26.88	120.1	4.17	4.18	1470.
240	4.10	33.86	238	26.89	119.1	4.29	4.47	1470.
250	4.08	33.87	248	26.90	118.2	4.41	4.76	1470.
260	4.04	33.87	258	26.91	117.3	4.53	5.07	1470.
270	4.03	33.89	268	26.92	116.3	4.64	5.39	1470.
280	4.01	33.90	278	26.94	115.1	4.76	5.71	1470.
290	4.00	33.92	288	26.95	114.1	4.87	6.04	1470.
300	3.98	33.93	298	26.96	112.9	4.99	6.38	1470.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 43

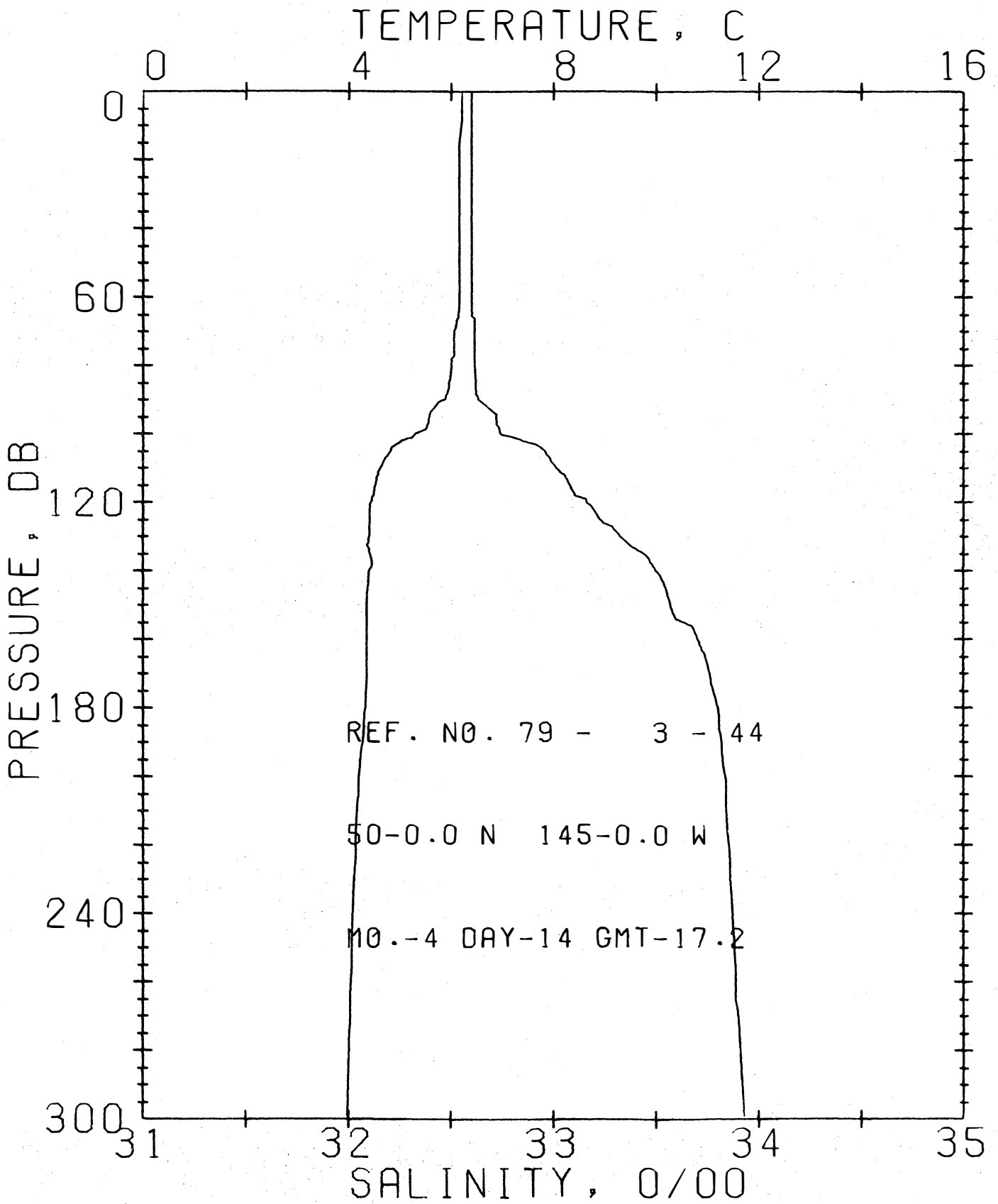
DATE 13/ 4/79

POSITION 50- .0N, 145- .0W GMT 17.2

RESULTS OF STP CAST 170 POINTS TAKEN FROM ANALOG TRACE P

GUIDELINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DLPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	6.18	32.60	0	25.66	233.9	.00	.00	1473.
10	6.18	32.60	10	25.66	234.0	.23	.01	1473.
20	6.18	32.60	20	25.66	234.1	.47	.05	1473.
30	6.18	32.60	30	25.66	234.2	.70	.11	1473.
50	6.18	32.60	50	25.66	234.4	1.17	.30	1473.
75	6.05	32.62	75	25.69	231.6	1.76	.67	1473.
100	5.07	32.86	99	26.00	202.8	2.32	1.17	1470.
125	4.42	33.20	124	26.34	170.5	2.77	1.69	1468.
150	4.35	33.58	149	26.64	141.7	3.16	2.23	1469.
175	4.31	33.76	174	26.79	128.0	3.49	2.78	1469.
200	4.25	33.80	199	26.83	124.5	3.80	3.38	1470.
225	4.14	33.84	223	26.87	120.7	4.11	4.04	1470.
250	4.08	33.87	248	26.90	118.2	4.41	4.76	1470.
300	3.98	33.93	298	26.96	112.9	4.99	6.38	1470.
400	3.91	34.04	397	27.05	105.1	6.09	10.30	1472.
500	3.75	34.12	496	27.13	98.2	7.10	14.95	1473.
600	3.53	34.20	595	27.22	90.6	8.04	20.21	1474.
800	3.15	34.30	793	27.34	80.0	9.73	32.23	1475.
1000	2.85	34.39	990	27.43	71.6	11.24	46.05	1478.
1200	2.58	34.46	1188	27.51	65.0	12.61	61.40	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 44

DATE 14/ 4/79

POSITION 50- .0N, 145- .0W

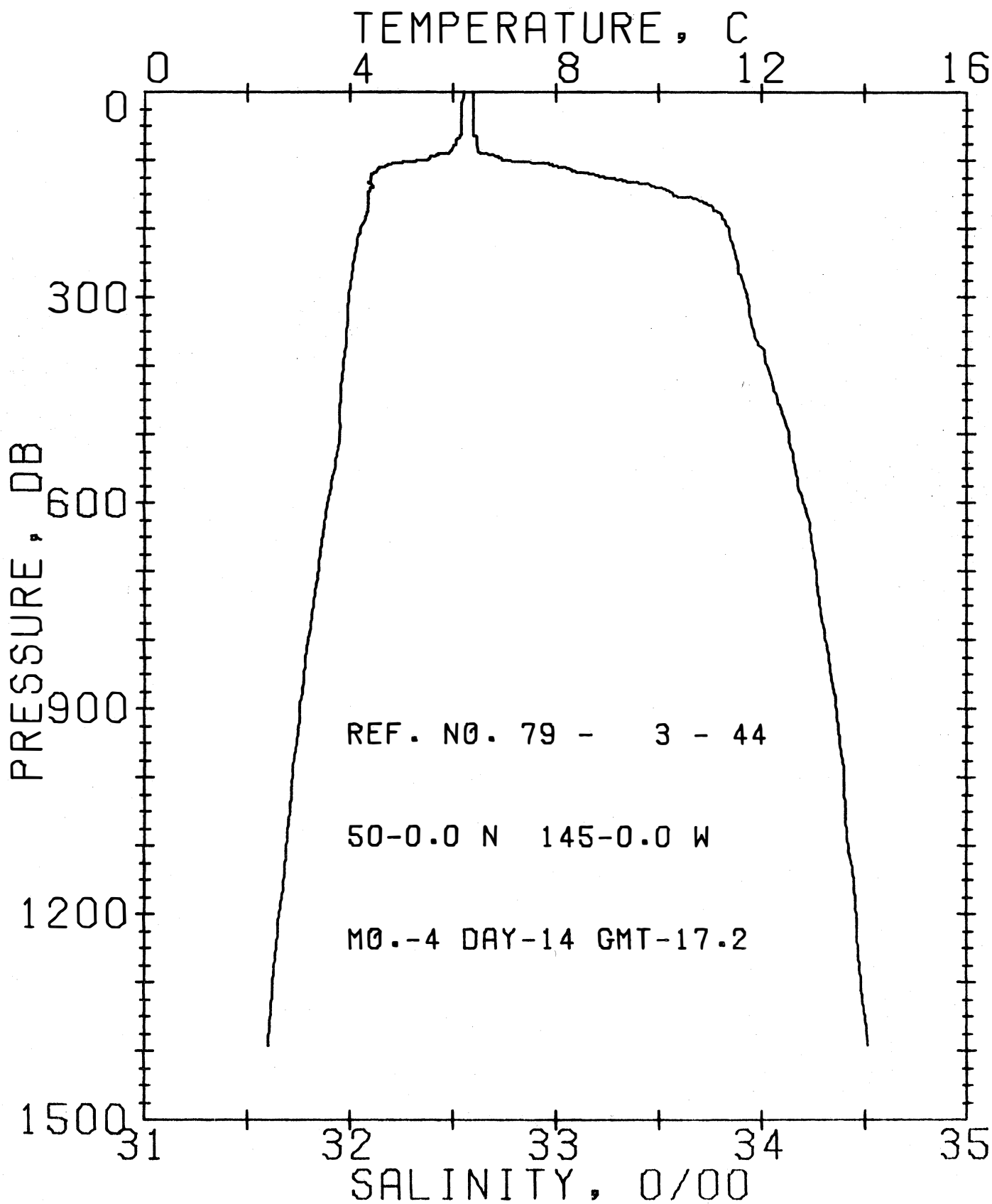
GMT 17.2

STATION P

RESULTS OF STP CAST 106 POINTS TAKEN FROM ANALOG TRACE

GUIDELINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	6.21	32.60	0	25.66	234.2	.00	.00	1473.
10	6.20	32.60	10	25.66	234.2	.23	.01	1473.
20	6.17	32.60	20	25.66	233.9	.47	.05	1473.
30	6.16	32.60	30	25.66	234.0	.70	.11	1473.
40	6.16	32.60	40	25.66	234.1	.94	.19	1473.
50	6.16	32.60	50	25.66	234.2	1.17	.30	1473.
60	6.16	32.60	60	25.66	234.3	1.40	.43	1474.
70	6.06	32.61	70	25.68	232.5	1.64	.58	1473.
80	5.99	32.61	79	25.69	231.8	1.87	.76	1473.
90	5.88	32.63	89	25.72	229.1	2.10	.96	1473.
100	5.29	32.74	99	25.88	214.2	2.32	1.17	1471.
110	4.62	33.01	109	26.16	186.9	2.52	1.38	1469.
120	4.43	33.16	119	26.30	173.7	2.70	1.60	1468.
130	4.40	33.33	129	26.44	160.8	2.87	1.81	1468.
140	4.40	33.50	139	26.58	148.1	3.02	2.02	1469.
150	4.34	33.57	149	26.63	142.7	3.16	2.23	1469.
160	4.34	33.70	159	26.74	132.8	3.30	2.45	1469.
170	4.34	33.76	169	26.79	128.3	3.43	2.67	1469.
180	4.32	33.80	179	26.82	125.2	3.56	2.90	1470.
190	4.27	33.82	189	26.84	123.2	3.68	3.13	1470.
200	4.21	33.84	199	26.86	121.3	3.80	3.37	1469.
210	4.16	33.84	209	26.87	120.6	3.93	3.63	1469.
220	4.13	33.86	218	26.89	119.4	4.05	3.89	1469.
230	4.11	33.86	228	26.89	118.7	4.16	4.16	1470.
240	4.08	33.87	238	26.90	117.8	4.28	4.45	1470.
250	4.06	33.88	248	26.91	117.1	4.40	4.74	1470.
260	4.03	33.89	258	26.92	116.1	4.52	5.04	1470.
270	4.02	33.90	268	26.93	115.3	4.63	5.35	1470.
280	4.00	33.91	278	26.94	114.3	4.75	5.68	1470.
290	3.99	33.92	288	26.95	113.5	4.86	6.01	1470.
300	3.97	33.93	298	26.96	112.8	4.97	6.35	1470.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 44

DATE 14/ 4/79

POSITION 50- .0N, 145- .0W

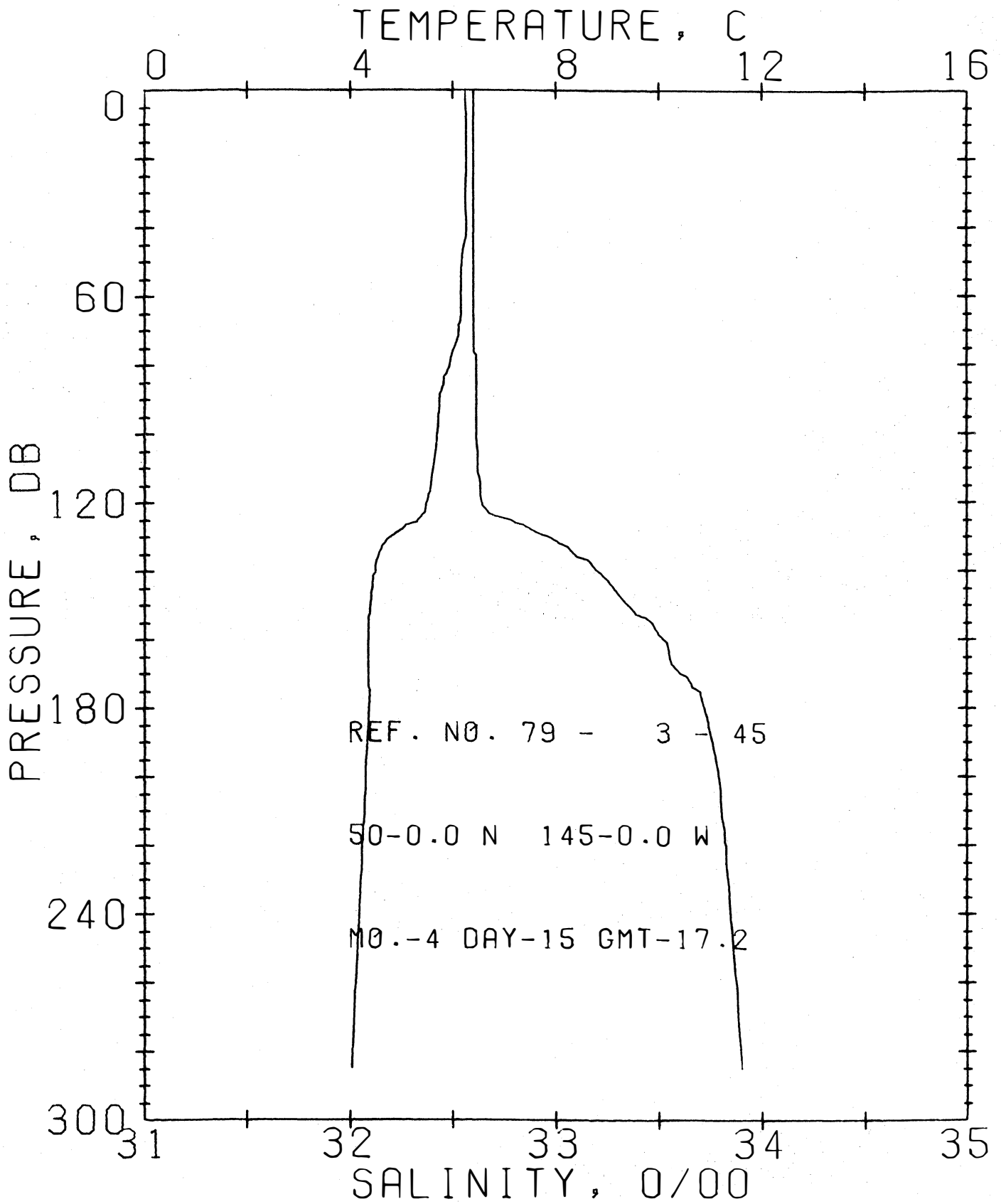
GMT 17.2

STATION P

RESULTS OF STP CAST 175 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	6.21	32.60	0	25.66	234.2	.00	.00	1473.
10	6.20	32.60	10	25.66	234.2	.23	.01	1473.
20	6.17	32.60	20	25.66	233.9	.47	.05	1473.
30	6.16	32.60	30	25.66	234.0	.70	.11	1473.
50	6.16	32.60	50	25.66	234.2	1.17	.30	1473.
75	6.06	32.61	75	25.68	232.5	1.75	.67	1473.
100	5.29	32.74	99	25.88	214.2	2.32	1.17	1471.
125	4.41	33.22	124	26.36	168.6	2.78	1.70	1468.
150	4.34	33.57	149	26.63	142.7	3.16	2.23	1469.
175	4.33	33.78	174	26.80	126.8	3.50	2.78	1469.
200	4.21	33.84	199	26.86	121.3	3.80	3.37	1469.
225	4.12	33.86	223	26.89	118.9	4.11	4.03	1469.
250	4.06	33.88	248	26.91	117.1	4.40	4.74	1470.
300	3.97	33.93	298	26.96	112.8	4.97	6.35	1470.
400	3.87	34.03	397	27.05	105.4	6.07	10.26	1472.
500	3.78	34.13	496	27.14	97.6	7.09	14.90	1473.
600	3.56	34.20	595	27.22	90.9	8.03	20.20	1474.
800	3.18	34.31	793	27.34	79.9	9.73	32.27	1476.
1000	2.88	34.40	990	27.44	71.3	11.23	46.01	1478.
1200	2.62	34.46	1188	27.51	65.3	12.60	61.38	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 45

DATE 15/ 4/79

POSITION 50- .0N, 145- .0W

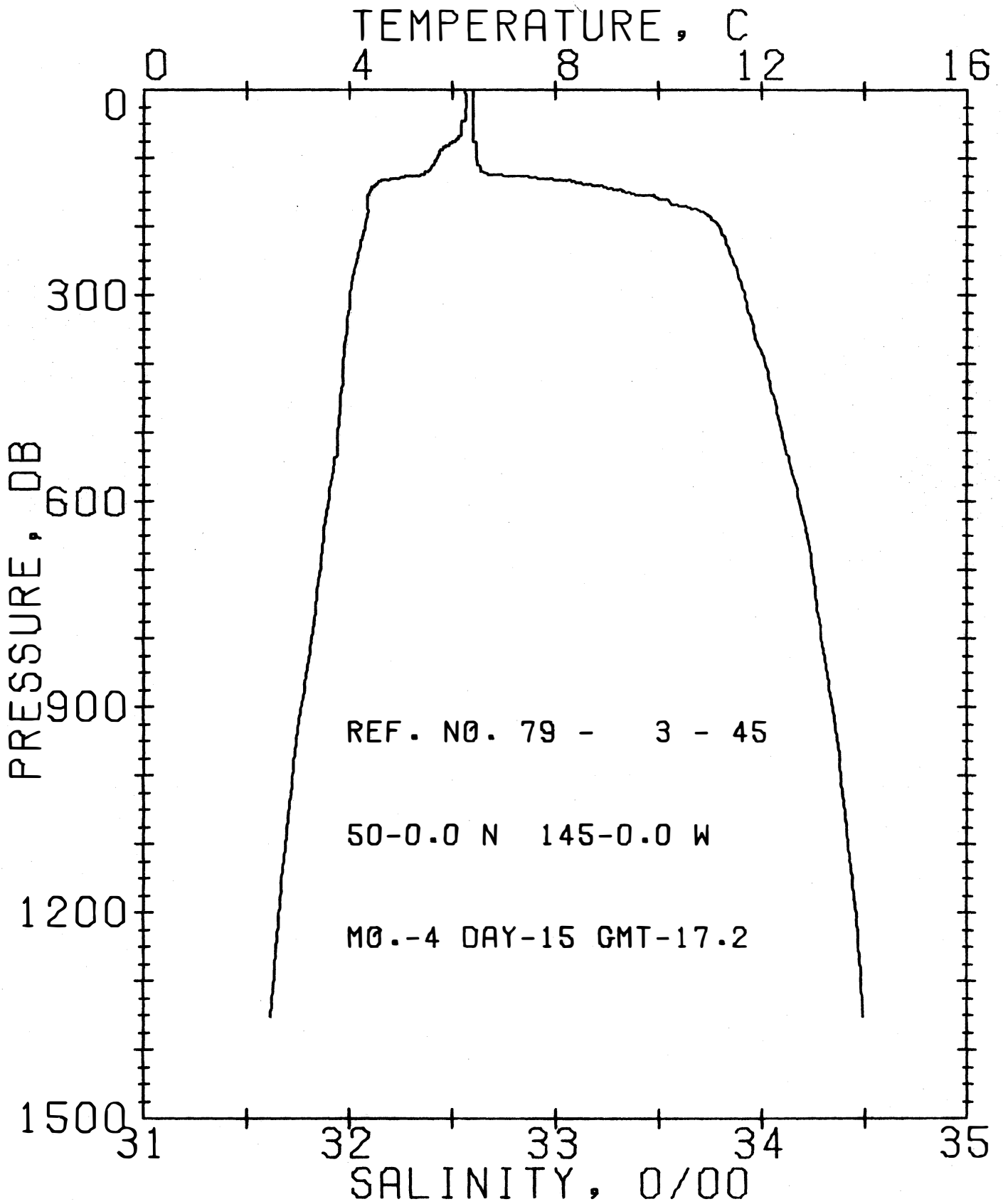
GMT 17.2

STATION P

RESULTS OF STP CAST 107 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	6.25	32.60	0	25.65	234.7	.00	.00	1473.
10	6.26	32.60	10	25.65	234.9	.23	.01	1473.
20	6.26	32.60	20	25.65	235.0	.47	.05	1473.
30	6.25	32.60	30	25.65	235.1	.70	.11	1473.
40	6.26	32.60	40	25.65	235.3	.94	.19	1474.
50	6.17	32.60	50	25.66	234.3	1.17	.30	1473.
60	6.16	32.60	60	25.66	234.3	1.41	.43	1474.
70	6.11	32.60	70	25.67	233.8	1.64	.59	1473.
80	5.94	32.61	79	25.70	231.2	1.88	.76	1473.
90	5.73	32.61	89	25.72	228.8	2.11	.96	1472.
100	5.69	32.61	99	25.73	228.5	2.33	1.18	1472.
110	5.62	32.62	109	25.74	227.0	2.56	1.43	1472.
120	5.48	32.64	119	25.77	224.3	2.79	1.69	1472.
130	4.81	32.96	129	26.10	192.8	3.00	1.96	1470.
140	4.48	33.19	139	26.32	172.2	3.18	2.21	1469.
150	4.38	33.35	149	26.46	159.3	3.35	2.45	1469.
160	4.35	33.52	159	26.60	146.3	3.50	2.69	1469.
170	4.35	33.60	169	26.66	140.4	3.64	2.94	1469.
180	4.35	33.72	179	26.76	131.5	3.78	3.18	1470.
190	4.32	33.76	189	26.79	128.2	3.91	3.42	1470.
200	4.30	33.79	199	26.82	125.6	4.03	3.67	1470.
210	4.26	33.81	209	26.83	124.4	4.16	3.93	1470.
220	4.22	33.83	218	26.86	122.2	4.28	4.21	1470.
230	4.20	33.84	228	26.86	121.5	4.40	4.49	1470.
240	4.17	33.85	238	26.88	120.5	4.52	4.77	1470.
250	4.12	33.86	248	26.89	119.2	4.64	5.07	1470.
260	4.09	33.87	258	26.91	117.8	4.76	5.38	1470.
270	4.06	33.89	268	26.92	116.8	4.88	5.70	1470.
280	4.04	33.90	278	26.93	115.8	5.00	6.02	1470.
290	4.02	33.91	288	26.94	115.0	5.11	6.36	1470.
300	4.00	33.92	298	26.95	114.0	5.23	6.70	1470.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 45

DATE 15/ 4/79

POSITION 50- .0N, 145- .0W

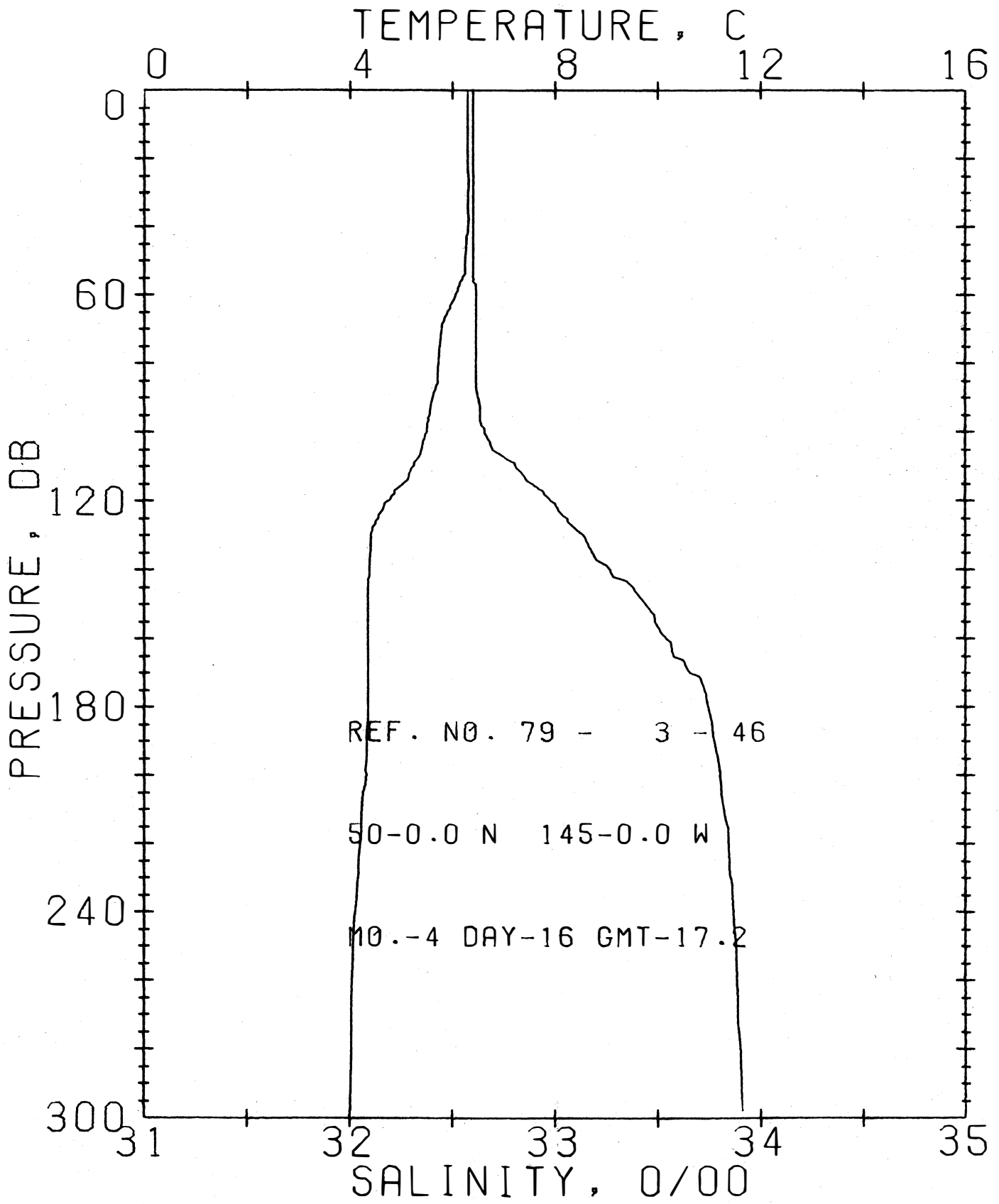
GMT 17.2

STATION P

RESULTS OF STP CAST 168 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	6.25	32.60	0	25.65	234.7	.00	.00	1473.
10	6.26	32.60	10	25.65	234.9	.23	.01	1473.
20	6.26	32.60	20	25.65	235.0	.47	.05	1473.
30	6.25	32.60	30	25.65	235.1	.70	.11	1473.
50	6.17	32.60	50	25.66	234.3	1.17	.30	1473.
75	6.03	32.60	75	25.68	232.9	1.76	.67	1473.
100	5.69	32.61	99	25.73	228.5	2.33	1.18	1472.
125	5.32	32.78	124	25.91	211.8	2.90	1.83	1471.
150	4.38	33.35	149	26.46	159.3	3.35	2.45	1469.
175	4.36	33.70	174	26.74	133.0	3.71	3.06	1469.
200	4.30	33.79	199	26.82	125.6	4.03	3.67	1470.
225	4.21	33.83	223	26.86	122.2	4.34	4.34	1470.
250	4.12	33.86	248	26.89	119.2	4.64	5.07	1470.
300	4.00	33.92	298	26.95	114.0	5.23	6.70	1470.
400	3.87	34.02	397	27.04	106.2	6.33	10.64	1472.
500	3.77	34.10	496	27.12	99.8	7.36	15.36	1473.
600	3.57	34.18	595	27.20	92.5	8.32	20.75	1474.
800	3.25	34.29	793	27.32	82.2	10.06	33.10	1476.
1000	2.89	34.39	990	27.43	72.4	11.59	47.15	1478.
1200	2.63	34.46	1188	27.51	65.4	12.97	62.56	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 46

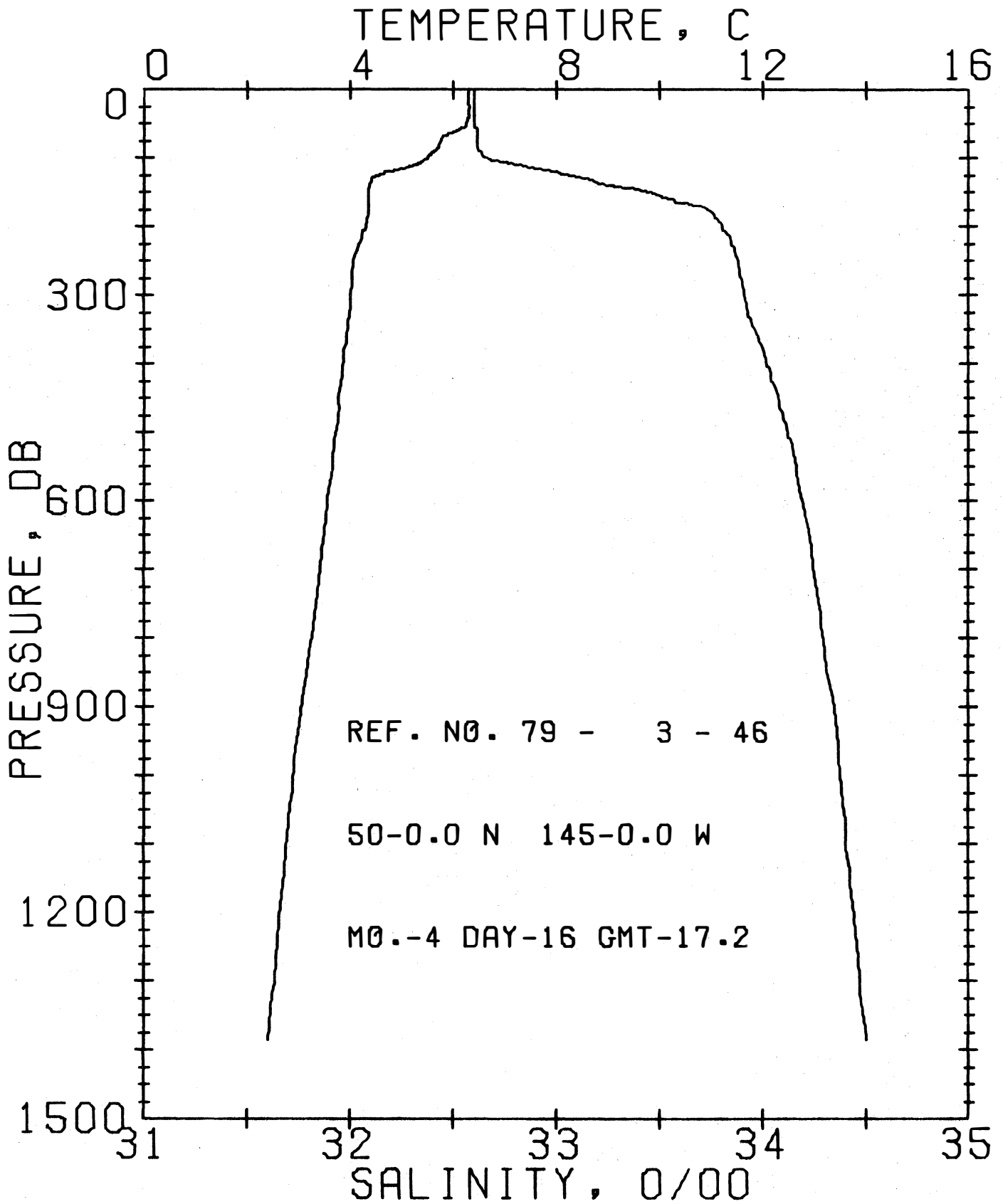
DATE 16/ 4/79

POSITION 50- .0N, 145- .0W GMT 17.2 STATION P

RESULTS OF STP CAST 111 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	6.30	32.60	0	25.65	235.3	.00	.00	1473.
10	6.30	32.60	10	25.65	235.4	.24	.01	1473.
20	6.30	32.60	20	25.65	235.5	.47	.05	1473.
30	6.30	32.60	30	25.65	235.7	.71	.11	1474.
40	6.30	32.60	40	25.64	235.8	.94	.19	1474.
50	6.25	32.60	50	25.65	235.3	1.18	.30	1474.
60	6.05	32.61	60	25.68	232.2	1.41	.43	1473.
70	5.78	32.61	70	25.72	229.2	1.64	.58	1472.
80	5.72	32.61	79	25.72	228.6	1.87	.76	1472.
90	5.62	32.62	89	25.75	226.5	2.10	.96	1472.
100	5.49	32.65	99	25.78	223.2	2.32	1.17	1472.
110	5.22	32.81	109	25.94	208.3	2.54	1.41	1471.
120	4.74	32.98	119	26.13	190.5	2.74	1.64	1469.
130	4.41	33.14	129	26.29	175.1	2.92	1.87	1468.
140	4.36	33.27	139	26.40	164.9	3.10	2.11	1468.
150	4.34	33.44	149	26.53	152.1	3.25	2.34	1469.
160	4.35	33.54	159	26.61	144.8	3.40	2.58	1469.
170	4.34	33.65	169	26.70	136.5	3.54	2.81	1469.
180	4.34	33.74	179	26.77	129.6	3.67	3.05	1470.
190	4.31	33.78	189	26.80	126.9	3.80	3.29	1470.
200	4.31	33.80	199	26.82	125.2	3.93	3.54	1470.
210	4.23	33.82	209	26.85	122.8	4.05	3.80	1470.
220	4.19	33.84	218	26.87	120.9	4.17	4.07	1470.
230	4.14	33.85	228	26.88	119.7	4.29	4.34	1470.
240	4.10	33.87	238	26.90	118.3	4.41	4.63	1470.
250	4.06	33.88	248	26.91	117.2	4.53	4.92	1470.
260	4.04	33.89	258	26.92	116.5	4.65	5.22	1470.
270	4.03	33.89	268	26.92	116.2	4.76	5.54	1470.
280	4.02	33.90	278	26.93	115.5	4.88	5.86	1470.
290	4.00	33.91	288	26.94	114.9	5.00	6.20	1470.
300	3.99	33.91	298	26.94	114.4	5.11	6.54	1470.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 46

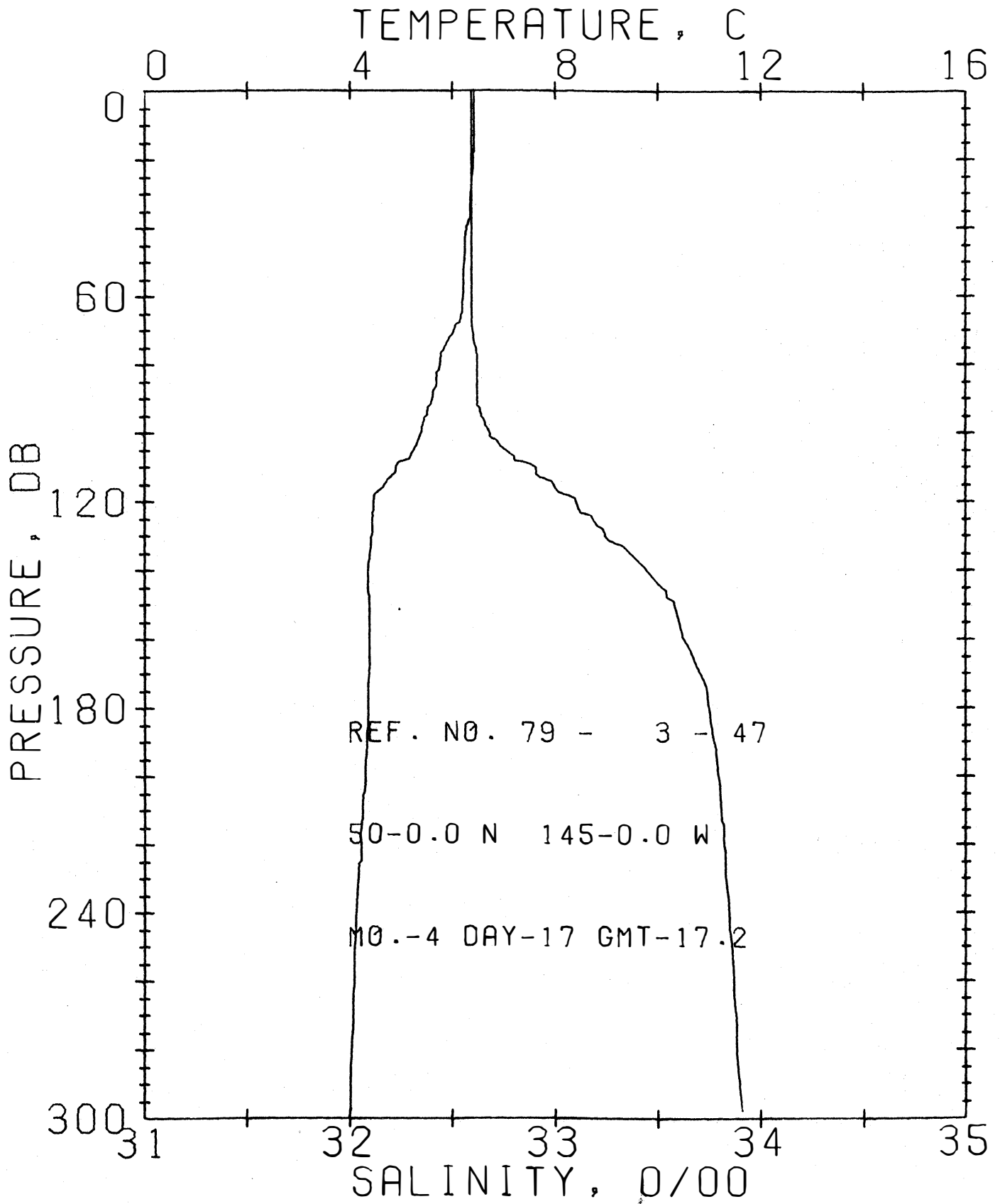
DATE 16/ 4/79

POSITION 50- .0N, 145- .0W GMT 17.2 STATION P

RESULTS OF STP CAST 174 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	6.30	32.60	0	25.65	235.3	.00	.00	1473.
10	6.30	32.60	10	25.65	235.4	.24	.01	1473.
20	6.30	32.60	20	25.65	235.5	.47	.05	1473.
30	6.30	32.60	30	25.65	235.7	.71	.11	1474.
50	6.25	32.60	50	25.65	235.3	1.18	.30	1474.
75	5.75	32.61	75	25.72	228.8	1.76	.67	1472.
100	5.49	32.65	99	25.78	223.2	2.32	1.17	1472.
125	4.53	33.06	124	26.21	182.3	2.83	1.76	1469.
150	4.34	33.44	149	26.53	152.1	3.25	2.34	1469.
175	4.34	33.72	174	26.76	131.0	3.61	2.93	1469.
200	4.31	33.80	199	26.82	125.2	3.93	3.54	1470.
225	4.17	33.85	223	26.88	120.2	4.23	4.20	1470.
250	4.06	33.88	248	26.91	117.2	4.53	4.92	1470.
300	3.99	33.91	298	26.94	114.4	5.11	6.54	1470.
400	3.86	34.01	397	27.04	106.1	6.22	10.48	1471.
500	3.71	34.12	496	27.14	97.7	7.23	15.14	1473.
600	3.55	34.19	595	27.21	91.7	8.18	20.44	1474.
800	3.24	34.29	793	27.32	82.0	9.91	32.76	1476.
1000	2.89	34.38	990	27.42	73.2	11.45	46.86	1478.
1200	2.63	34.44	1188	27.49	66.9	12.86	62.59	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 47

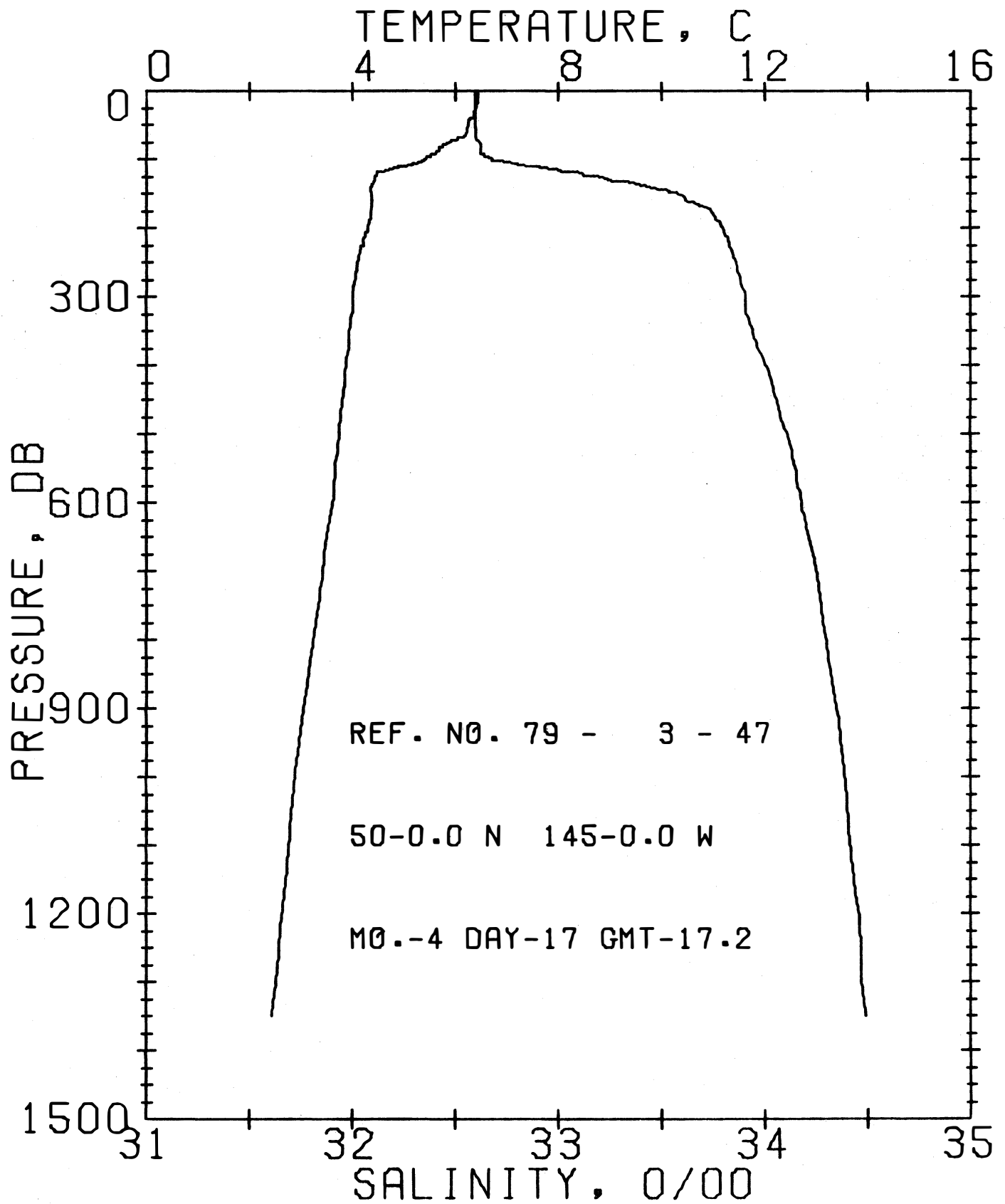
DATE 17/ 4/79

POSITION 50- .0N, 145- .0W GMT 17.2 STATION P

RESULTS OF STP CAST 122 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	6.42	32.59	0	25.62	237.5	.00	.00	1474.
10	6.42	32.59	10	25.62	237.6	.24	.01	1474.
20	6.40	32.59	20	25.62	237.5	.48	.05	1474.
30	6.35	32.59	30	25.63	237.0	.71	.11	1474.
40	6.27	32.59	40	25.64	236.1	.95	.19	1474.
50	6.23	32.59	50	25.65	235.7	1.19	.30	1474.
60	6.21	32.59	60	25.65	235.6	1.42	.43	1474.
70	6.03	32.59	70	25.68	233.2	1.66	.59	1473.
80	5.74	32.62	79	25.73	228.0	1.89	.77	1472.
90	5.60	32.62	89	25.75	226.6	2.11	.96	1472.
100	5.38	32.68	99	25.82	219.7	2.34	1.18	1471.
110	4.88	32.91	109	26.06	197.1	2.55	1.41	1470.
120	4.46	33.10	119	26.25	178.7	2.74	1.63	1468.
130	4.42	33.24	129	26.37	167.7	2.91	1.85	1468.
140	4.34	33.44	139	26.54	151.6	3.07	2.07	1468.
150	4.37	33.57	149	26.64	142.3	3.22	2.28	1469.
160	4.36	33.62	159	26.68	138.9	3.36	2.50	1469.
170	4.36	33.70	169	26.74	133.1	3.49	2.73	1469.
180	4.34	33.74	179	26.78	129.6	3.62	2.97	1470.
190	4.32	33.77	189	26.80	127.3	3.75	3.21	1470.
200	4.30	33.79	199	26.82	125.5	3.88	3.46	1470.
210	4.23	33.81	209	26.84	123.7	4.00	3.72	1470.
220	4.21	33.82	218	26.85	122.9	4.13	3.99	1470.
230	4.14	33.83	228	26.87	121.3	4.25	4.27	1470.
240	4.11	33.85	238	26.88	120.0	4.37	4.56	1470.
250	4.09	33.86	248	26.89	119.0	4.49	4.86	1470.
260	4.07	33.87	258	26.90	118.0	4.61	5.16	1470.
270	4.05	33.88	268	26.91	117.3	4.72	5.48	1470.
280	4.03	33.88	278	26.92	117.0	4.84	5.81	1470.
290	4.00	33.90	288	26.93	115.4	4.96	6.15	1470.
300	3.99	33.91	298	26.94	114.5	5.07	6.49	1470.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 47

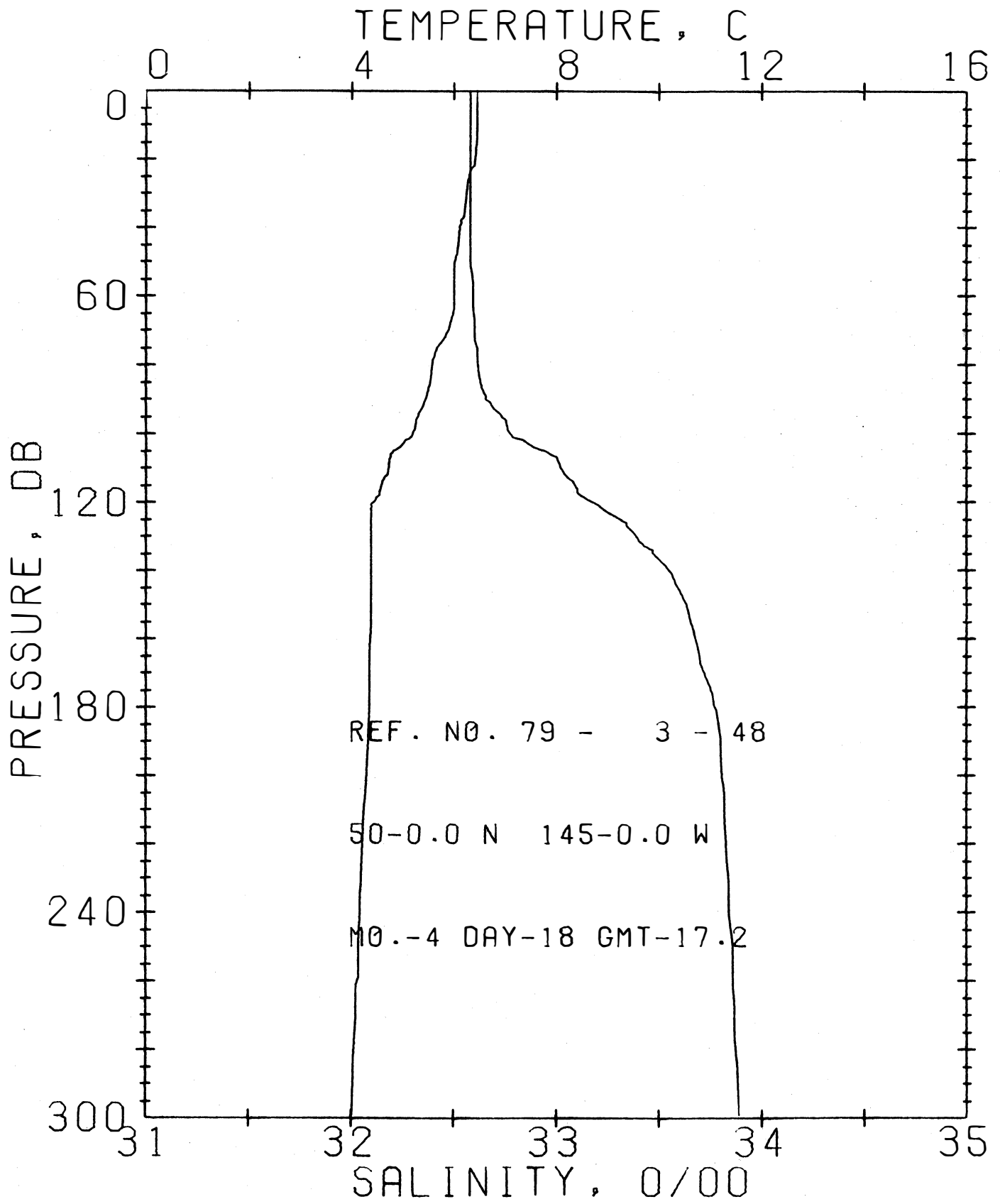
DATE 17/ 4/79

POSITION 50- .0N, 145- .0W GMT 17.2 STATION P

RESULTS OF STP CAST 186 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	6.42	32.59	0	25.62	237.5	.00	.00	1474.
10	6.42	32.59	10	25.62	237.6	.24	.01	1474.
20	6.40	32.59	20	25.62	237.5	.48	.05	1474.
30	6.35	32.59	30	25.63	237.0	.71	.11	1474.
50	6.23	32.59	50	25.65	235.7	1.19	.30	1474.
75	5.84	32.61	75	25.71	229.9	1.77	.68	1472.
100	5.38	32.68	99	25.82	219.7	2.34	1.18	1471.
125	4.43	33.18	124	26.32	172.3	2.83	1.74	1468.
150	4.37	33.57	149	26.64	142.3	3.22	2.28	1469.
175	4.35	33.73	174	26.77	130.5	3.56	2.85	1469.
200	4.30	33.79	199	26.82	125.5	3.88	3.46	1470.
225	4.21	33.83	223	26.86	122.2	4.19	4.13	1470.
250	4.09	33.86	248	26.89	119.0	4.49	4.86	1470.
300	3.99	33.91	298	26.94	114.5	5.07	6.49	1470.
400	3.86	34.00	397	27.03	107.1	6.19	10.48	1471.
500	3.73	34.11	496	27.12	98.8	7.22	15.20	1473.
600	3.60	34.18	595	27.20	92.8	8.18	20.56	1474.
800	3.24	34.30	793	27.33	81.5	9.92	32.91	1476.
1000	2.88	34.39	990	27.43	71.9	11.44	46.88	1478.
1200	2.63	34.46	1188	27.51	65.5	12.82	62.35	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 48

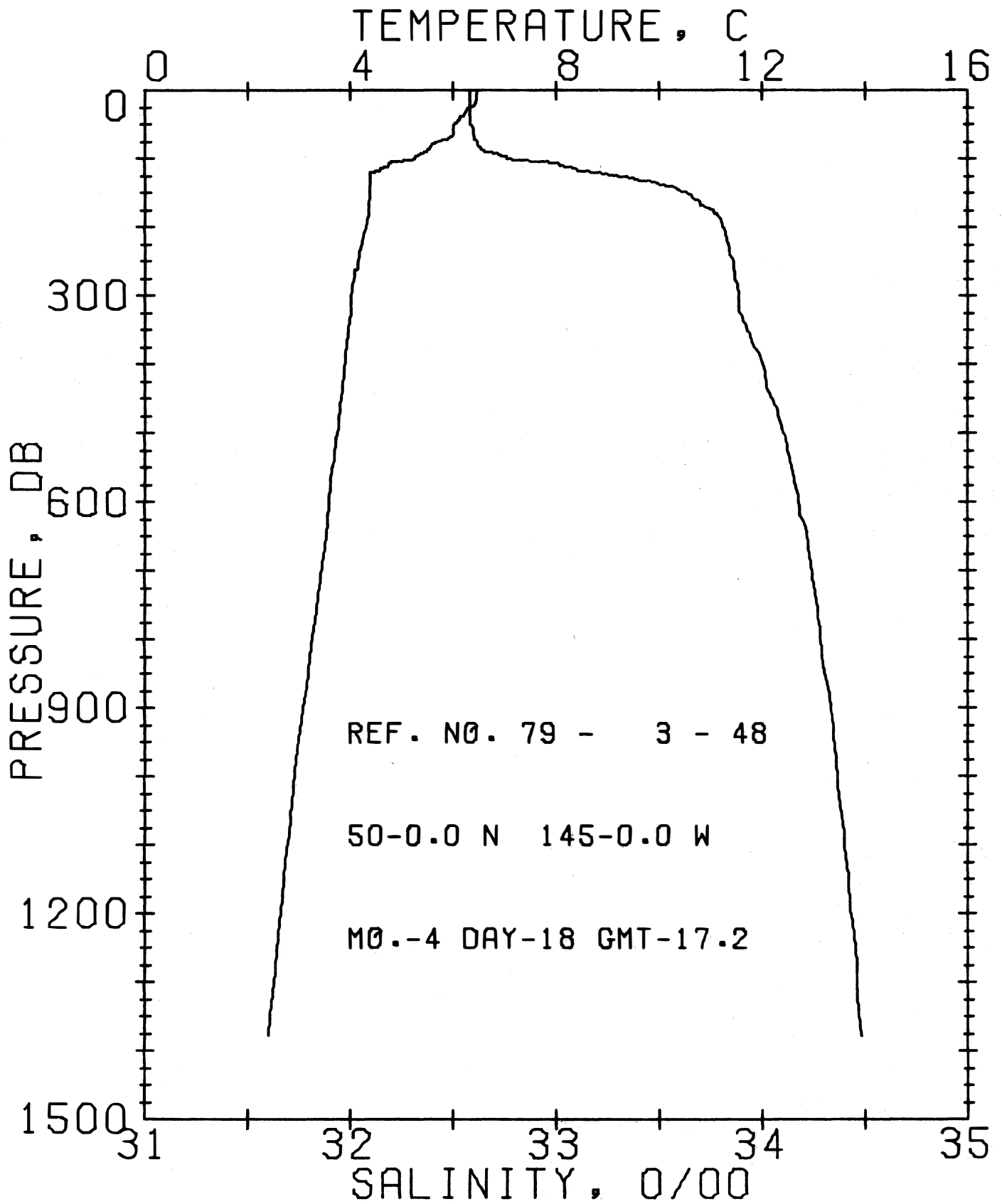
DATE 18/ 4/79

POSITION 50- .0N, 145- .0W GMT 17.2 STATION P

RESULTS OF STP CAST 106 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	6.46	32.58	0	25.61	238.7	.00	.00	1474.
10	6.46	32.58	10	25.61	238.8	.24	.01	1474.
20	6.43	32.58	20	25.61	238.5	.48	.05	1474.
30	6.25	32.58	30	25.64	236.5	.71	.11	1473.
40	6.12	32.58	40	25.65	235.1	.95	.19	1473.
50	6.02	32.58	50	25.66	234.0	1.19	.30	1473.
60	5.99	32.59	60	25.68	233.0	1.42	.43	1473.
70	5.90	32.60	70	25.69	231.3	1.65	.59	1473.
80	5.56	32.61	79	25.74	226.6	1.88	.76	1471.
90	5.45	32.65	89	25.79	222.6	2.10	.96	1471.
100	5.19	32.78	99	25.92	210.4	2.32	1.16	1470.
110	4.72	33.02	109	26.16	187.2	2.52	1.37	1469.
120	4.44	33.17	119	26.31	173.1	2.70	1.59	1468.
130	4.38	33.39	129	26.49	156.0	2.86	1.79	1468.
140	4.36	33.55	139	26.62	144.3	3.01	2.00	1469.
150	4.36	33.63	149	26.68	138.0	3.15	2.21	1469.
160	4.36	33.67	159	26.72	134.7	3.29	2.42	1469.
170	4.35	33.72	169	26.76	131.4	3.42	2.65	1469.
180	4.34	33.78	179	26.80	127.3	3.55	2.88	1470.
190	4.32	33.80	189	26.82	125.2	3.68	3.12	1470.
200	4.29	33.81	199	26.83	124.3	3.80	3.36	1470.
210	4.25	33.82	208	26.85	123.1	3.92	3.62	1470.
220	4.22	33.83	218	26.86	122.2	4.05	3.89	1470.
230	4.19	33.84	228	26.87	121.3	4.17	4.17	1470.
240	4.16	33.84	238	26.87	121.0	4.29	4.46	1470.
250	4.14	33.86	248	26.89	119.4	4.41	4.76	1470.
260	4.11	33.86	258	26.89	119.1	4.53	5.07	1470.
270	4.07	33.87	268	26.90	118.1	4.65	5.39	1470.
280	4.04	33.87	278	26.91	117.5	4.77	5.72	1470.
290	4.02	33.88	288	26.92	116.8	4.88	6.06	1470.
300	4.00	33.89	298	26.93	116.1	5.00	6.41	1470.



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REFERENCE NO. 79- 3- 48

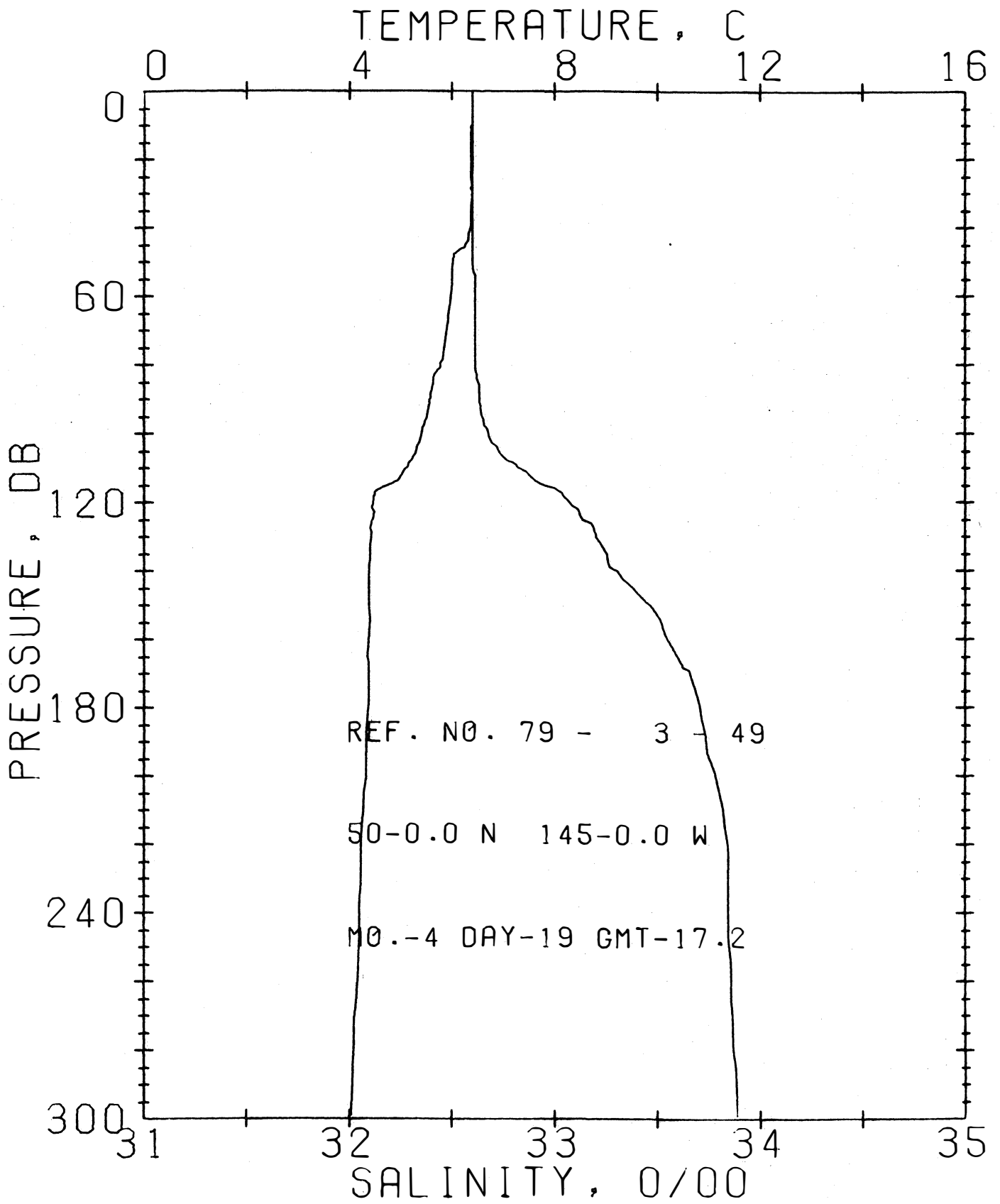
DATE 18/ 4/79

POSITION 50- .0N, 145- .0W GMT 17.2 STATION P

RESULTS OF STP CAST 171 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	6.46	32.58	0	25.61	238.7	.00	.00	1474.
10	6.46	32.58	10	25.61	238.8	.24	.01	1474.
20	6.43	32.58	20	25.61	238.5	.48	.05	1474.
30	6.25	32.58	30	25.64	236.5	.71	.11	1473.
50	6.02	32.58	50	25.66	234.0	1.19	.30	1473.
75	5.65	32.61	75	25.73	227.8	1.77	.67	1472.
100	5.19	32.78	99	25.92	210.4	2.32	1.16	1470.
125	4.37	33.31	124	26.43	161.9	2.78	1.69	1468.
150	4.36	33.63	149	26.68	138.0	3.15	2.21	1469.
175		33.75	174	26.78	128.8	3.49	2.76	1469.
200	4.29	33.81	199	26.83	124.3	3.80	3.36	1470.
225	4.21	33.83	223	26.86	121.8	4.11	4.03	1470.
250	4.14	33.86	248	26.89	119.4	4.41	4.76	1470.
300	4.00	33.89	298	26.93	116.1	5.00	6.41	1470.
400	3.89	34.00	397	27.02	107.6	6.13	10.43	1472.
500		34.10	496	27.12	99.4	7.16	15.17	1473.
600	3.57	34.17	595	27.19	93.0	8.12	20.54	1474.
800	3.25	34.26	793	27.31	82.8	9.87	32.99	1476.
1000	2.90	34.37	990	27.41	73.9	11.43	47.26	1478.
1200	2.62	34.43	1188	27.49	67.2	12.84	63.04	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 49

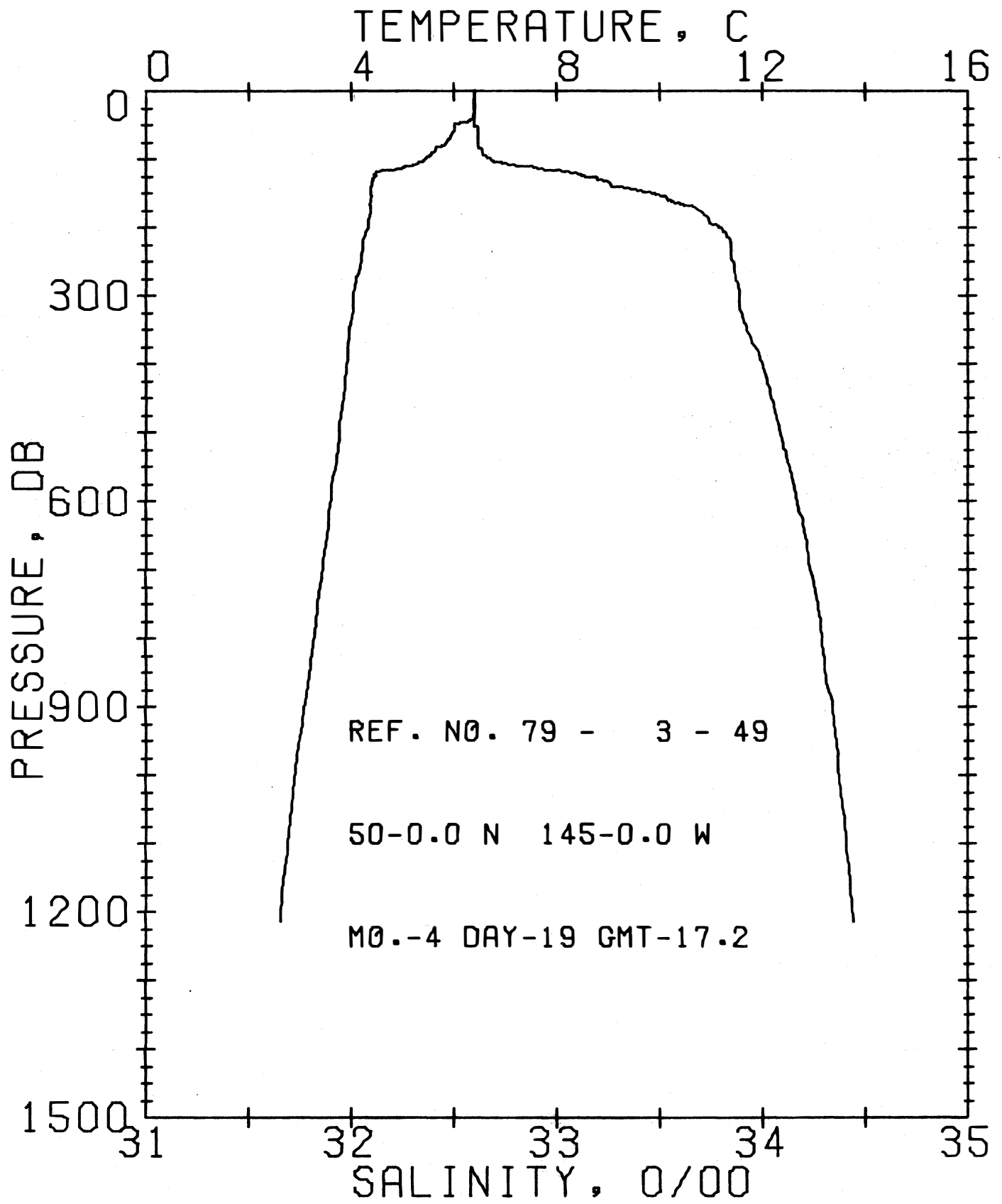
DATE 19/ 4/79

POSITION 50- .0N, 145- .0W GMT 17.2 STATION P

RESULTS OF STP CAST 117 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	6.39	32.60	0	25.63	236.4	.00	.00	1473.
10	6.39	32.60	10	25.63	236.5	.24	.01	1474.
20	6.38	32.60	20	25.64	236.5	.47	.05	1474.
30	6.39	32.60	30	25.63	236.7	.71	.11	1474.
40	6.38	32.60	40	25.64	236.7	.95	.19	1474.
50	6.02	32.60	50	25.68	232.5	1.18	.30	1473.
60	5.98	32.61	60	25.69	231.4	1.41	.43	1473.
70	5.89	32.61	70	25.70	230.5	1.64	.58	1473.
80	5.77	32.61	79	25.72	229.2	1.87	.76	1472.
90	5.56	32.63	89	25.76	225.4	2.10	.96	1472.
100	5.41	32.67	99	25.81	220.4	2.32	1.17	1471.
110	5.12	32.82	109	25.96	206.5	2.54	1.40	1470.
120	4.46	33.07	119	26.23	180.8	2.73	1.63	1468.
130	4.42	33.20	129	26.34	170.7	2.91	1.85	1468.
140	4.37	33.31	139	26.43	162.0	3.07	2.08	1468.
150	4.38	33.47	149	26.55	150.2	3.23	2.31	1469.
160	4.37	33.55	159	26.62	144.2	3.38	2.54	1469.
170	4.36	33.66	169	26.70	136.3	3.52	2.78	1469.
180	4.36	33.70	179	26.74	132.7	3.65	3.02	1470.
190	4.33	33.73	189	26.77	130.3	3.78	3.27	1470.
200	4.32	33.78	199	26.81	126.5	3.91	3.52	1470.
210	4.27	33.82	209	26.85	123.2	4.04	3.78	1470.
220	4.22	33.84	218	26.87	121.2	4.16	4.05	1470.
230	4.21	33.85	228	26.87	120.7	4.28	4.33	1470.
240	4.19	33.85	238	26.88	120.6	4.40	4.62	1470.
250	4.17	33.85	248	26.88	120.2	4.52	4.92	1470.
260	4.14	33.86	258	26.89	119.5	4.64	5.23	1470.
270	4.10	33.87	268	26.90	118.6	4.76	5.55	1470.
280	4.07	33.87	278	26.91	118.0	4.88	5.88	1470.
290	4.04	33.88	288	26.92	116.9	5.00	6.22	1470.
300	4.02	33.89	298	26.92	116.3	5.11	6.57	1470.



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REFERENCE NO. 79- 3- 49

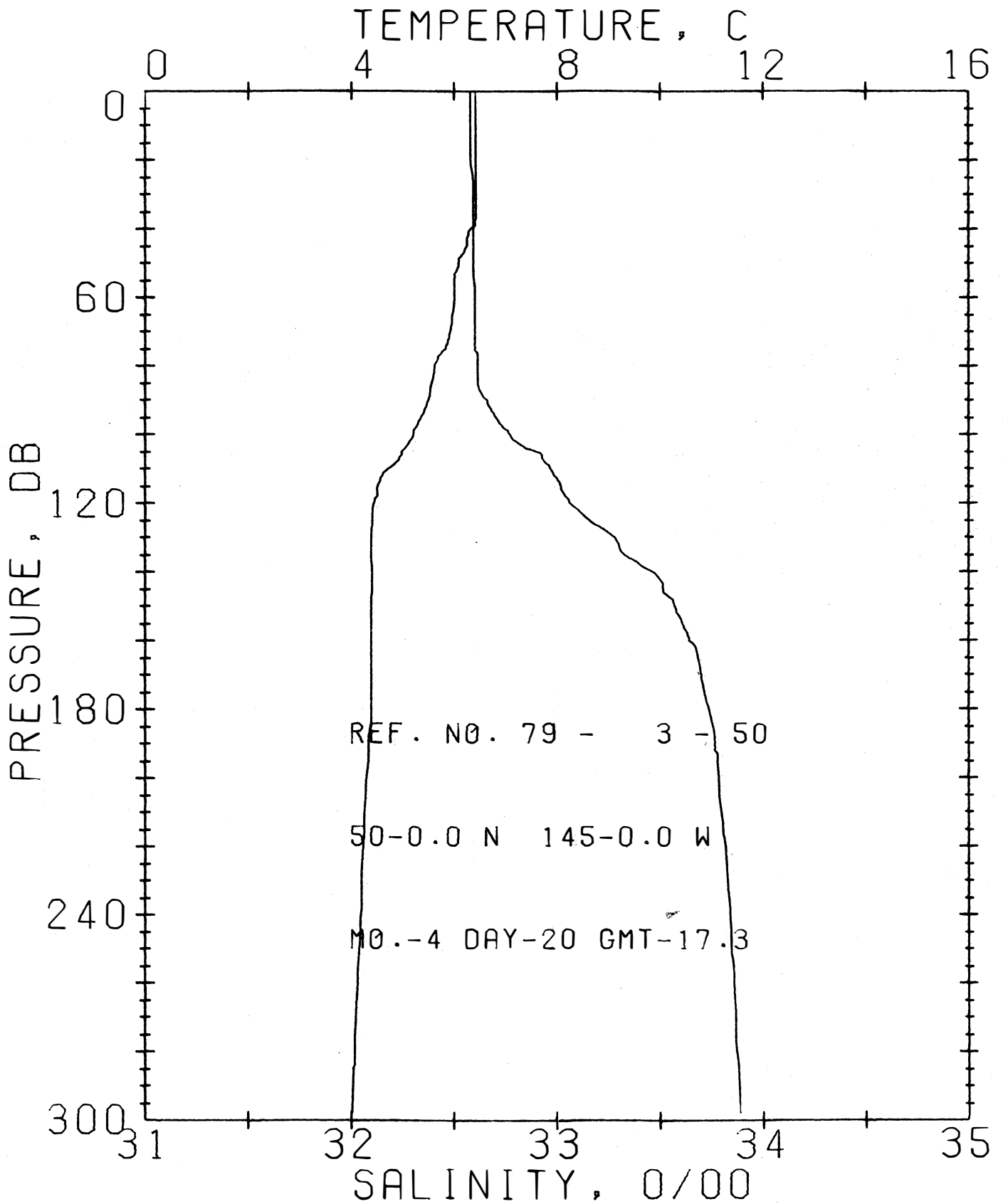
DATE 19/ 4/79

POSITION 50- .0N, 145- .0W GMT 17.2 STATION P

RESULTS OF STP CAST 181 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	6.39	32.60	0	25.63	236.4	.00	.00	1473.
10	6.39	32.60	10	25.63	236.5	.24	.01	1474.
20	6.38	32.60	20	25.64	236.5	.47	.05	1474.
30	6.39	32.60	30	25.63	236.7	.71	.11	1474.
50	6.02	32.60	50	25.68	232.5	1.18	.30	1473.
75	5.85	32.61	75	25.71	230.0	1.76	.67	1473.
100	5.41	32.67	99	25.81	220.4	2.32	1.17	1471.
125	4.46	33.13	124	26.28	176.3	2.82	1.74	1468.
150	4.38	33.47	149	26.55	150.2	3.23	2.31	1469.
175	4.36	33.68	174	26.73	134.3	3.58	2.90	1469.
200	4.32	33.78	199	26.81	126.5	3.91	3.52	1470.
225	4.21	33.85	223	26.87	120.7	4.22	4.19	
250	4.17	33.85	248	26.88	120.2	4.52	4.92	1470.
300	4.02	33.89	298	26.92	116.3	5.11	6.57	1470.
400	3.90	34.00	397	27.02	107.9	6.24	10.60	1472.
500	3.76	34.08	496	27.10	100.8	7.29	15.38	1473.
600	3.58	34.16	595	27.19	93.7	8.26	20.82	1474.
800	3.25	34.29	793	27.32	82.4	10.01	33.30	1476.
1000	2.88	34.37	990	27.42	73.3	11.56	47.51	1478.
1200	2.62	34.44	1188	27.49	66.9	12.96	63.14	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 50

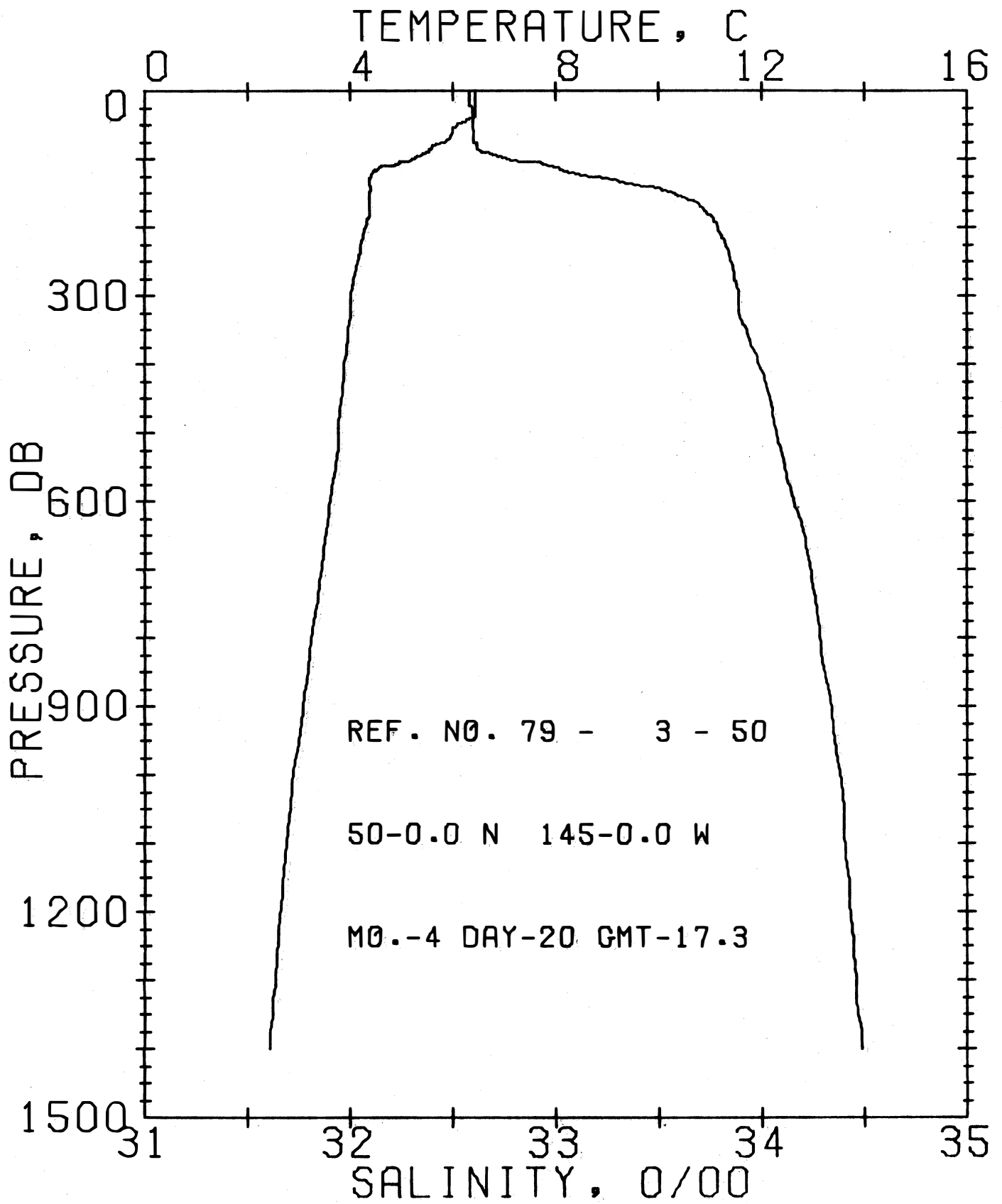
DATE 20/ 4/79

POSITION 50- .0N, 145- .0W GMT 17.3 STATION P

RESULTS OF STP CAST 123 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	6.42	32.58	0	25.61	238.2	.00	.00	1474.
10	6.42	32.58	10	25.61	238.3	.24	.01	1474.
20	6.42	32.58	20	25.61	238.5	.48	.05	1474.
30	6.42	32.59	30	25.62	237.8	.71	.11	1474.
40	6.32	32.59	40	25.63	236.7	.95	.19	1474.
50	6.09	32.59	50	25.66	234.1	1.19	.30	1473.
60	6.00	32.60	60	25.68	232.3	1.42	.43	1473.
70	5.91	32.60	70	25.69	231.5	1.65	.59	1473.
80	5.60	32.61	79	25.74	227.2	1.88	.76	1472.
90	5.48	32.66	89	25.79	222.2	2.11	.96	1471.
100	5.19	32.77	99	25.91	210.8	2.33	1.17	1470.
110	4.73	32.97	109	26.12	191.0	2.53	1.38	1469.
120	4.43	33.06	119	26.22	181.2	2.71	1.60	1468.
130	4.37	33.28	129	26.41	164.2	2.89	1.82	1468.
140	4.39	33.47	139	26.55	150.3	3.04	2.04	1469.
150	4.38	33.57	149	26.63	142.7	3.19	2.26	1469.
160	4.36	33.64	159	26.69	137.4	3.33	2.48	1469.
170	4.36	33.70	169	26.74	133.0	3.47	2.70	1469.
180	4.36	33.73	179	26.77	130.5	3.60	2.94	1470.
190	4.33	33.77	189	26.80	127.6	3.73	3.18	1470.
200	4.28	33.79	199	26.82	125.9	3.85	3.43	1470.
210	4.25	33.80	209	26.83	124.8	3.98	3.70	1470.
220	4.21	33.82	218	26.85	122.9	4.10	3.97	1470.
230	4.20	33.83	228	26.86	121.9	4.23	4.25	1470.
240	4.18	33.84	238	26.87	121.2	4.35	4.54	1470.
250	4.12	33.85	248	26.88	120.0	4.47	4.84	1470.
260	4.10	33.86	258	26.89	119.1	4.59	5.15	1470.
270	4.08	33.87	268	26.90	118.2	4.71	5.47	1470.
280	4.05	33.87	278	26.91	117.6	4.82	5.80	1470.
290	4.02	33.88	288	26.92	116.7	4.94	6.14	1470.
300	4.00	33.89	298	26.93	116.1	5.06	6.49	1470.



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REFERENCE NO. 79- 3- 50

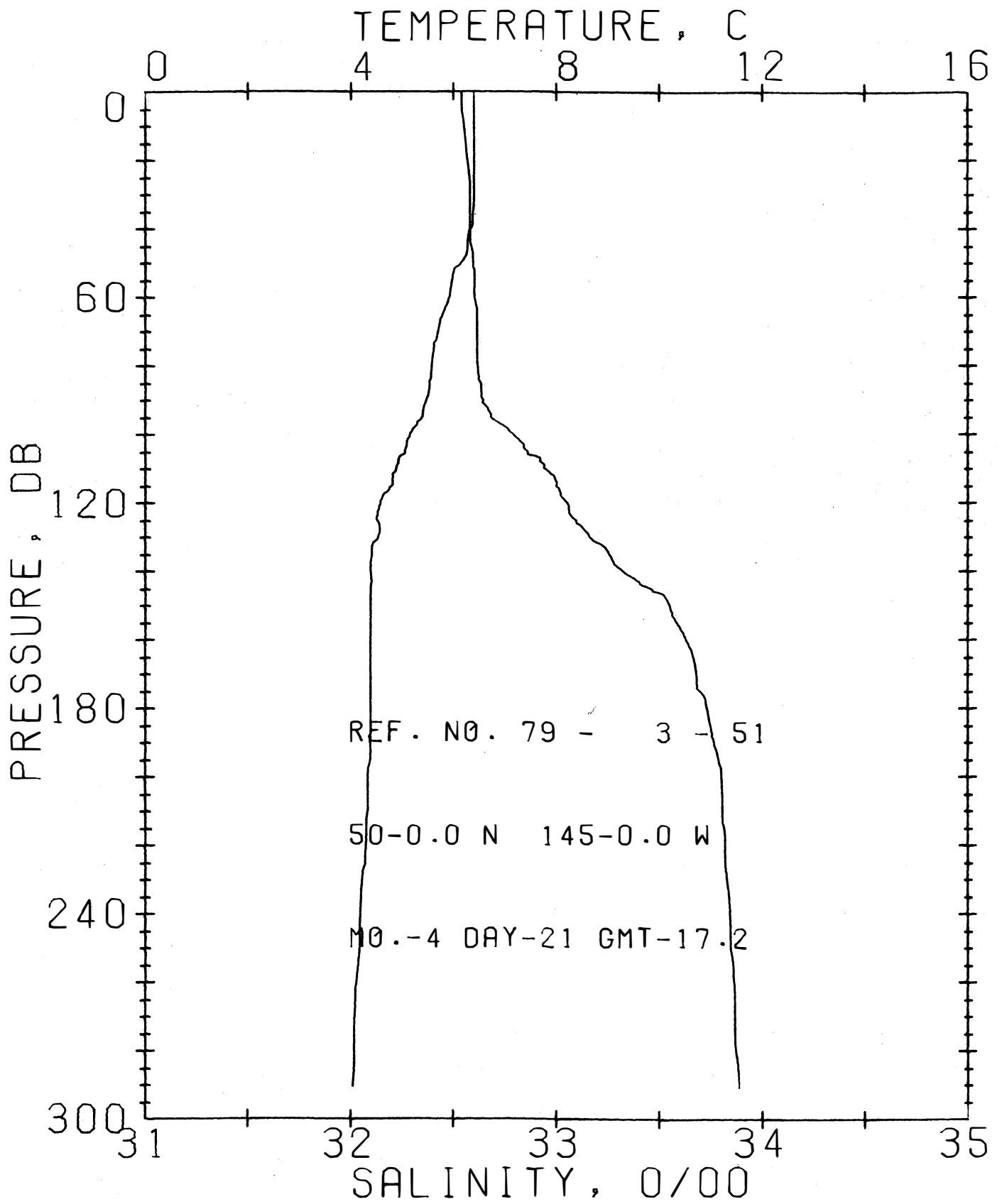
DATE 20/ 4/79

POSITION 50- .0N, 145- .0W GMT 17.3 STATION P

RESULTS OF STP CAST 195 POINTS TAKEN FROM ANALOG TRACE

GUIDELINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	6.42	32.58	0	25.61	238.2	.00	.00	1474.
10	6.42	32.58	10	25.61	238.3	.24	.01	1474.
20	6.42	32.58	20	25.61	238.5	.48	.05	1474.
30	6.42	32.59	30	25.62	237.8	.71	.11	1474.
50	6.09	32.59	50	25.66	234.1	1.19	.30	1473.
75	5.82	32.60	75	25.70	230.5	1.77	.67	1472.
100	5.19	32.77	99	25.91	210.8	2.33	1.17	1470.
125	4.39	33.15	124	26.30	173.9	2.80	1.71	1468.
150	4.38	33.57	149	26.63	142.7	3.19	2.26	1469.
175	4.36	33.71	174	26.75	132.0	3.53	2.82	1469.
200	4.28	33.79	199	26.82	125.9	3.85	3.43	1470.
225	4.20	33.83	223	26.86	122.4	4.16	4.11	1470.
250	4.12	33.85	248	26.88	120.0	4.47	4.84	1470.
300	4.00	33.89	298	26.93	116.1	5.06	6.49	1470.
400	3.88	33.98	397	27.01	108.7	6.19	10.53	1472.
500	3.76	34.07	496	27.09	101.8	7.24	15.33	1473.
600	3.58	34.15	595	27.18	94.4	8.22	20.83	1474.
800	3.24	34.28	793	27.31	82.5	9.97	33.31	1476.
1000	2.88	34.38	990	27.43	72.6	11.53	47.53	1478.
1200	2.63	34.43	1188	27.49	67.3	12.92	63.16	1480.



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REFERENCE NO. 79- 3- 51

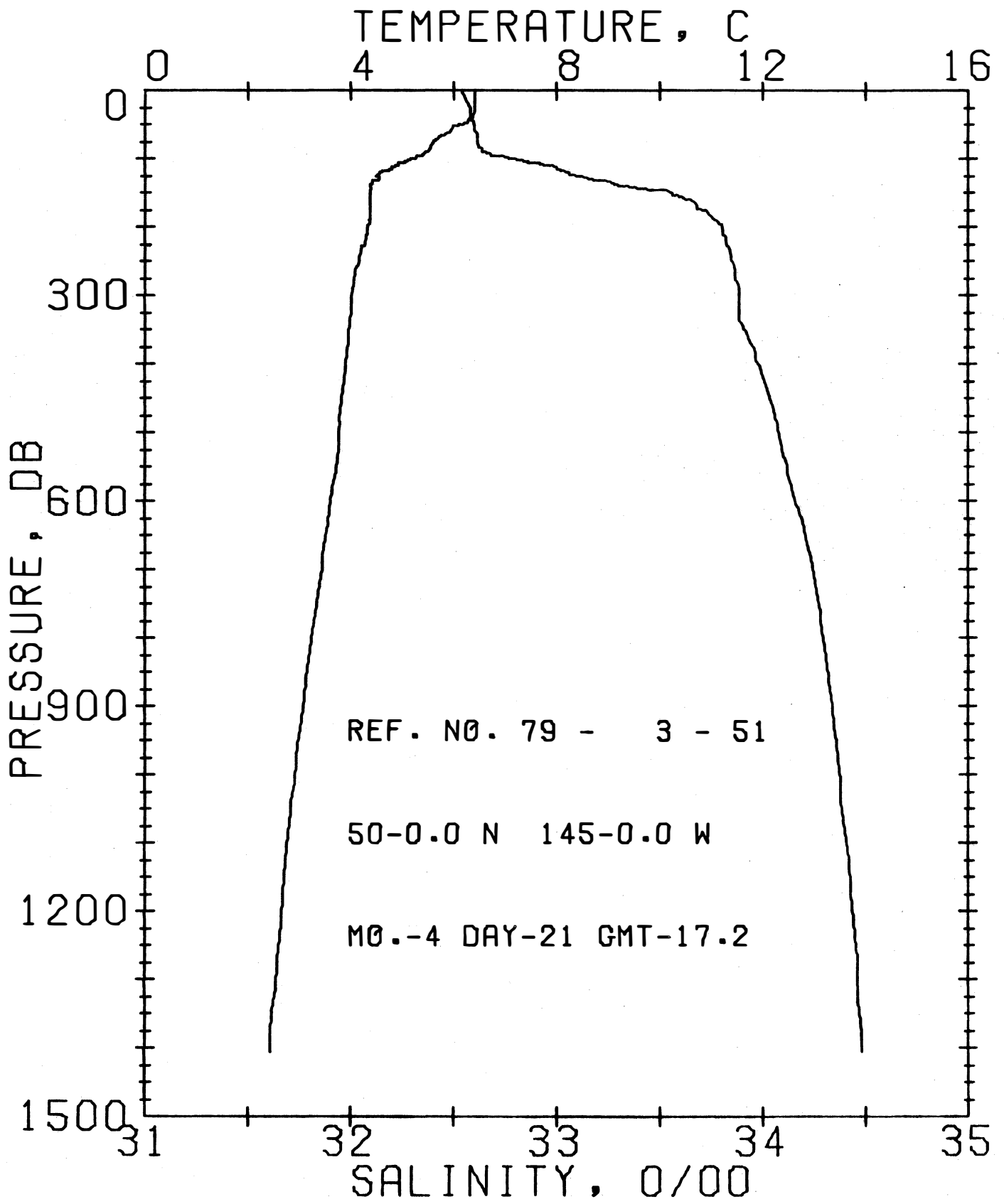
DATE 21/ 4/79

POSITION 50- .0N, 145- .0W GMT 17.2 STATION P

RESULTS OF STP CAST 130 POINTS TAKEN FROM ANALOG TRACE

GUIDELINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	6.40	32.54	0	25.59	241.0	.00	.00	1473.
10	6.41	32.55	10	25.59	240.6	.24	.01	1474.
20	6.41	32.57	20	25.60	239.4	.48	.05	1474.
30	6.39	32.58	30	25.62	238.2	.72	.11	1474.
40	6.34	32.58	40	25.62	237.7	.96	.19	1474.
50	6.16	32.59	50	25.65	234.9	1.19	.30	1473.
60	5.91	32.60	60	25.69	231.4	1.43	.43	1473.
70	5.69	32.61	70	25.73	228.2	1.66	.59	1472.
80	5.56	32.61	79	25.74	226.6	1.88	.76	1471.
90	5.47	32.64	89	25.78	223.6	2.11	.95	1471.
100	5.15	32.79	99	25.93	208.9	2.33	1.17	1470.
110	4.89	32.94	109	26.08	195.0	2.53	1.38	1470.
120	4.56	33.05	119	26.20	183.3	2.72	1.60	1469.
130	4.54	33.16	129	26.29	175.0	2.90	1.83	1469.
140	4.38	33.32	139	26.44	161.4	3.06	2.06	1468.
150	4.36	33.55	149	26.62	144.3	3.22	2.28	1469.
160	4.36	33.63	159	26.68	138.4	3.36	2.51	1469.
170	4.36	33.68	169	26.72	134.7	3.49	2.74	1469.
180	4.36	33.73	179	26.76	130.9	3.63	2.97	1470.
190		33.76	189	26.79	128.2	3.76	3.22	1470.
200	4.33	33.80	199	26.82	125.2	3.88	3.47	1470.
210	4.31	33.81	209	26.83	124.6	4.01	3.73	1470.
220	4.28	33.82	218	26.84	123.5	4.13	4.00	1470.
230	4.21	33.83	228	26.86	122.0	4.25	4.29	1470.
240	4.19	33.84	238	26.87	120.9	4.38	4.58	1470.
250	4.15	33.85	248	26.88	120.2	4.50	4.88	1470.
260	4.10	33.86	258	26.90	118.7	4.62	5.19	1470.
270	4.06	33.87	268	26.90	118.0	4.73	5.51	1470.
280	4.05	33.87	278	26.91	117.6	4.85	5.84	1470.
290	4.02	33.89	288	26.92	116.2	4.97	6.18	1470.
300	4.00	33.89	298	26.93	116.1	5.09	6.53	1470.



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REFERENCE NO. 79- 3- 51

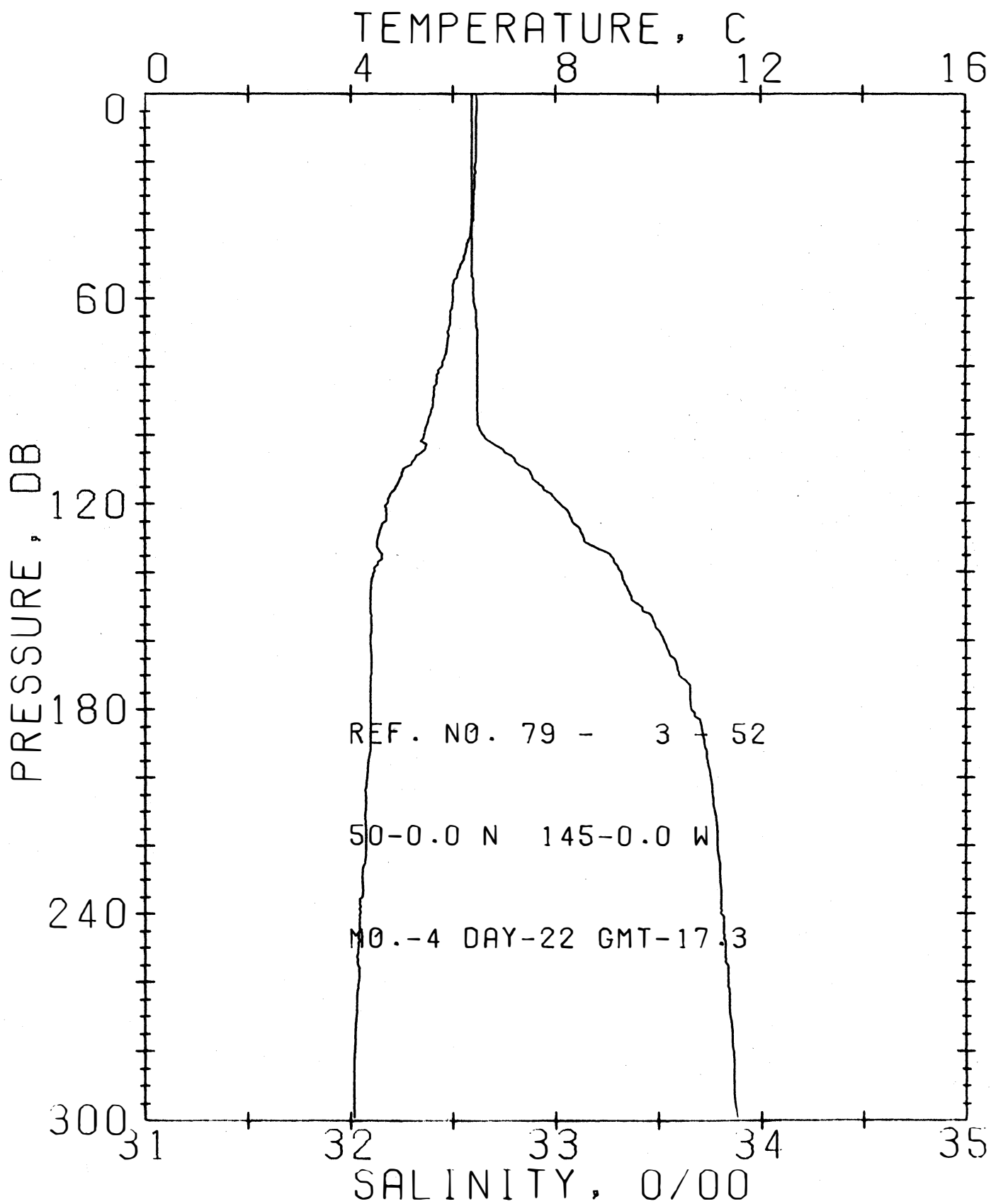
DATE 21/ 4/79

POSITION 50- .0N, 145- .0W GMT 17.2 STATION P

RESULTS OF STP CAST 198 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	6.40	32.54	0	25.59	241.0	.00	.00	1473.
10	6.41	32.55	10	25.59	240.6	.24	.01	1474.
20	6.41	32.57	20	25.60	239.4	.48	.05	1474.
30	6.39	32.58	30	25.62	238.2	.72	.11	1474.
50	6.16	32.59	50	25.65	234.9	1.19	.30	1473.
75	5.61	32.61	75	25.74	227.2	1.77	.67	1472.
100	5.15	32.79	99	25.93	208.9	2.33	1.17	1470.
125	4.49	33.09	124	26.24	179.6	2.81	1.72	1468.
150	4.36	33.55	149	26.62	144.3	3.22	2.28	1469.
175	4.36	33.69	174	26.73	133.4	3.56	2.86	1469.
200	4.33	33.80	199	26.82	125.2	3.88	3.47	1470.
225	4.26	33.82	223	26.84	123.4	4.19	4.14	1470.
250	4.15	33.85	248	26.88	120.2	4.50	4.88	1470.
300	4.00	33.89	298	26.93	116.1	5.09	6.53	1470.
400	3.90	33.98	397	27.01	109.1	6.22	10.58	1472.
500	3.76	34.07	496	27.10	101.4	7.27	15.38	1473.
600	3.59	34.15	595	27.18	94.5	8.25	20.88	1474.
800	3.23	34.29	793	27.32	81.8	10.00	33.30	1476.
1000	2.91	34.38	990	27.42	73.4	11.55	47.47	1478.
1200	2.65	34.44	1188	27.49	67.2	12.95	63.17	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 52

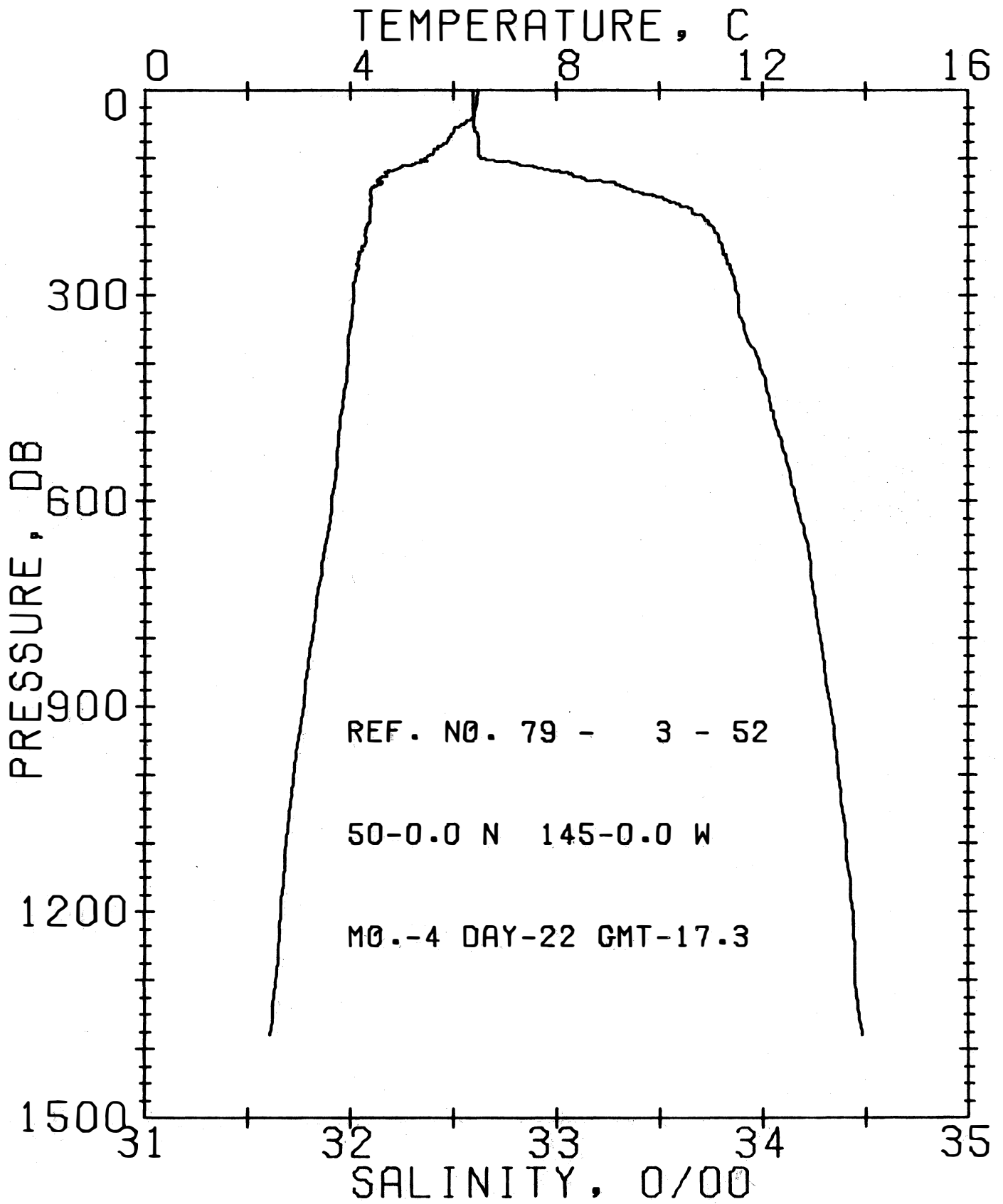
DATE 22/ 4/79

POSITION 50- .0N, 145- .0W GMT 17.3 STATION P

RESULTS OF STP CAST 173 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	6.46	32.59	0	25.62	238.0	.00	.00	1474.
10	6.46	32.59	10	25.62	238.1	.24	.01	1474.
20	6.46	32.59	20	25.62	238.2	.48	.05	1474.
30	6.39	32.59	30	25.63	237.5	.71	.11	1474.
40	6.35	32.59	40	25.63	237.1	.95	.19	1474.
50	6.16	32.59	50	25.65	234.9	1.19	.30	1473.
60	5.99	32.60	60	25.68	232.3	1.42	.43	1473.
70	5.90	32.62	70	25.71	229.8	1.65	.59	1473.
80	5.78	32.62	79	25.73	228.6	1.88	.76	1472.
90	5.61	32.62	89	25.75	226.7	2.11	.96	1472.
100	5.42	32.64	99	25.79	222.8	2.33	1.18	1471.
110	5.02	32.87	109	26.01	201.6	2.55	1.41	1470.
120	4.71	33.02	119	26.16	187.2	2.74	1.63	1469.
130	4.52	33.13	129	26.27	176.6	2.93	1.87	1469.
140	4.45	33.32	139	26.43	162.1	3.09	2.10	1469.
150	4.37	33.42	149	26.52	153.9	3.25	2.33	1469.
160	4.38	33.53	159	26.60	146.2	3.40	2.57	1469.
170	4.39	33.60	169	26.66	140.8	3.55	2.81	1469.
180	4.37	33.66	179	26.71	136.2	3.68	3.05	1470.
190	4.37	33.72	189	26.75	131.8	3.82	3.31	1470.
200	4.30	33.75	199	26.79	128.7	3.95	3.56	1470.
210	4.29	33.78	209	26.81	126.8	4.07	3.83	1470.
220	4.29	33.79	218	26.82	125.9	4.20	4.11	1470.
230	4.22	33.80	228	26.83	124.5	4.33	4.39	1470.
240	4.18	33.81	238	26.84	123.5	4.45	4.69	1470.
250	4.13	33.83	248	26.87	121.5	4.57	5.00	1470.
260	4.13	33.84	258	26.87	120.9	4.69	5.31	1470.
270	4.11	33.85	268	26.89	119.8	4.81	5.64	1470.
280	4.06	33.86	278	26.90	118.4	4.93	5.97	1470.
290	4.05	33.87	288	26.91	118.0	5.05	6.31	1470.
300	4.04	33.88	298	26.91	117.3	5.17	6.67	1470.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 52

DATE 22/ 4/79

POSITION 50- .0N, 145- .0W

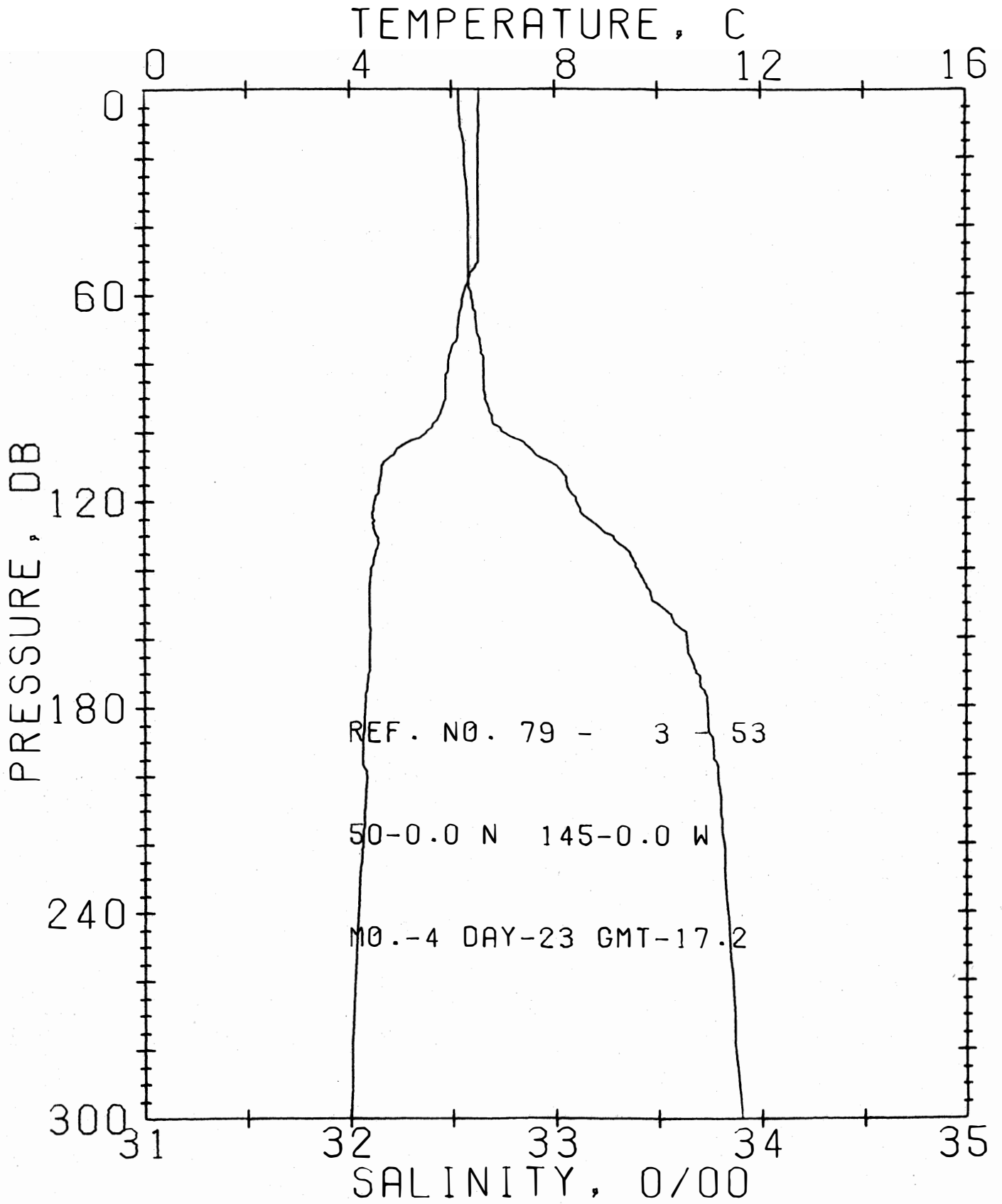
GMT 17.3

STATION P

RESULTS OF STP CAST 252 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	6.46	32.59	0	25.62	238.0	.00	.00	1474.
10	6.46	32.59	10	25.62	238.1	.24	.01	1474.
20	6.46	32.59	20	25.62	238.2	.48	.05	1474.
30	6.39	32.59	30	25.63	237.5	.71	.11	1474.
50	6.16	32.59	50	25.65	234.9	1.19	.30	1473.
75	5.89	32.62	75	25.71	229.7	1.77	.67	1473.
100	5.42	32.64	99	25.79	222.8	2.33	1.18	1471.
125	4.70	33.08	124	26.21	182.6	2.84	1.75	1469.
150	4.37	33.42	149	26.52	153.9	3.25	2.33	1469.
175	4.37	33.65	174	26.70	136.9	3.61	2.93	1469.
200	4.30	33.75	199	26.79	128.7	3.95	3.56	1470.
225	4.28	33.80	223	26.83	125.1	4.26	4.25	1470.
250	4.13	33.83	248	26.87	121.5	4.57	5.00	1470.
300	4.04	33.88	298	26.91	117.3	5.17	6.67	1470.
400	3.94	33.98	397	27.01	109.3	6.31	10.74	1472.
500	3.77	34.07	496	27.10	101.5	7.37	15.57	1473.
600	3.62	34.16	595	27.18	94.3	8.34	21.05	1474.
800	3.24	34.28	793	27.31	82.8	10.11	33.59	1476.
1000	2.89	34.37	990	27.41	73.7	11.66	47.85	1478.
1200	2.63	34.44	1188	27.49	67.0	13.07	63.55	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 53

DATE 23/ 4/79

POSITION 50- .0N, 145- .0W

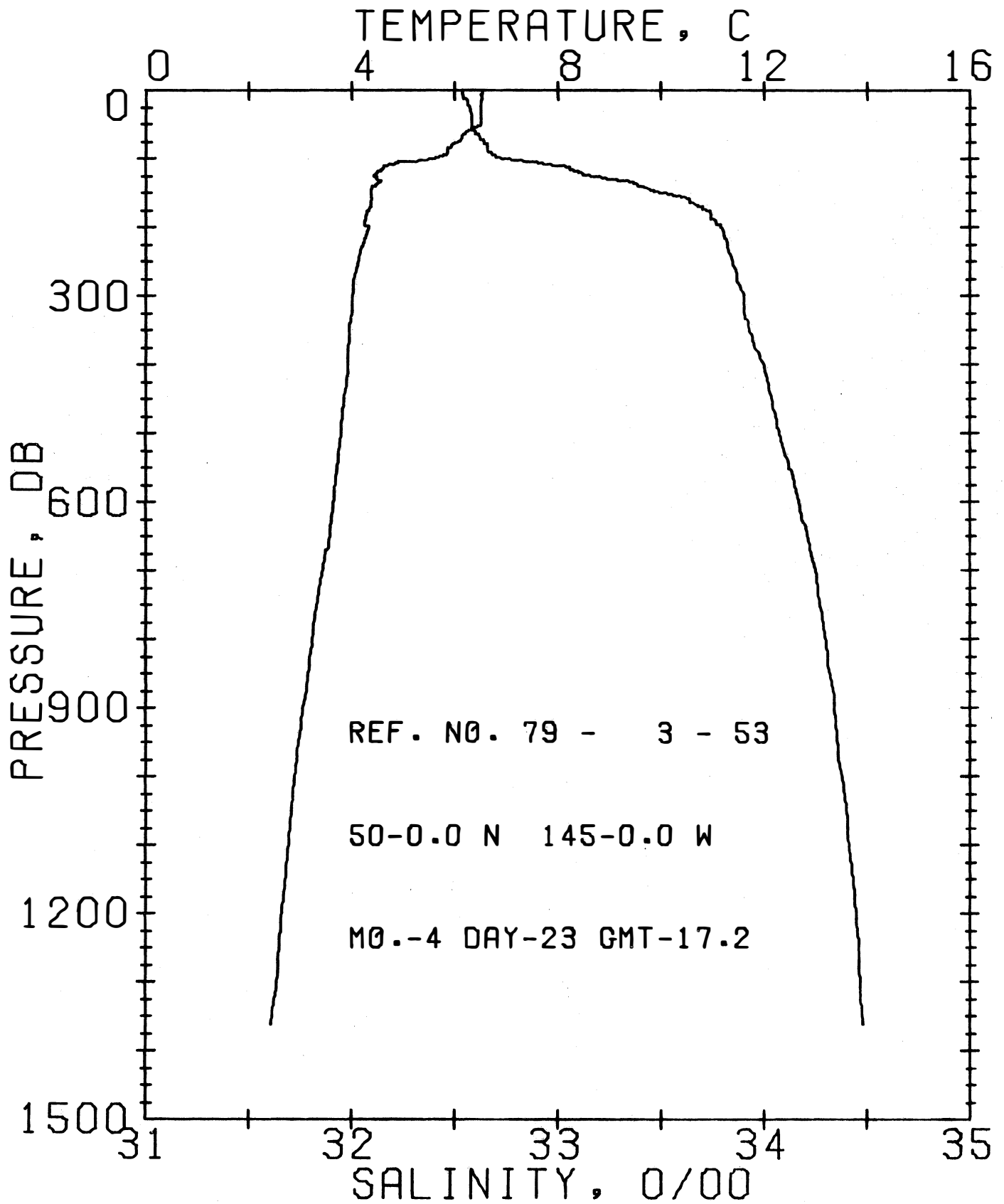
GMT 17.2

STATION P

RESULTS OF STP CAST 134 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	6.54	32.53	0	25.56	243.4	.00	.00	1474.
10	6.53	32.54	10	25.57	242.7	.24	.01	1474.
20	6.51	32.56	20	25.59	241.1	.48	.05	1474.
30	6.51	32.57	30	25.60	240.4	.73	.11	1474.
40	6.51	32.58	40	25.60	239.8	.97	.20	1475.
50	6.50	32.58	50	25.60	239.9	1.21	.31	1475.
60	6.23	32.59	60	25.65	235.8	1.44	.44	1474.
70	6.12	32.62	70	25.68	232.5	1.68	.59	1474.
80	5.93	32.65	79	25.73	228.1	1.91	.77	1473.
90	5.87	32.66	89	25.75	226.7	2.14	.97	1473.
100	5.53	32.74	99	25.85	216.9	2.36	1.18	1472.
110	4.62	33.01	109	26.16	186.9	2.56	1.40	1469.
120	4.48	33.10	119	26.25	178.8	2.74	1.61	1468.
130	4.51	33.28	129	26.39	165.7	2.92	1.83	1469.
140	4.41	33.40	139	26.50	155.7	3.08	2.05	1469.
150	4.36	33.50	149	26.58	147.8	3.23	2.28	1469.
160	4.38	33.63	159	26.68	138.0	3.37	2.50	1469.
170	4.36	33.68	169	26.72	134.5	3.51	2.73	1469.
180	4.28	33.73	179	26.77	129.8	3.64	2.97	1469.
190	4.24	33.76	189	26.80	127.2	3.77	3.21	1469.
200	4.32	33.79	199	26.81	126.1	3.89	3.46	1470.
210	4.29	33.80	209	26.83	125.1	4.02	3.72	1470.
220	4.23	33.82	218	26.85	123.3	4.14	4.00	1470.
230	4.19	33.82	228	26.85	122.5	4.27	4.28	1470.
240	4.16	33.84	238	26.87	121.3	4.39	4.57	1470.
250	4.12	33.85	248	26.88	120.2	4.51	4.87	1470.
260	4.09	33.86	258	26.89	119.1	4.63	5.18	1470.
270	4.06	33.87	268	26.90	118.0	4.75	5.50	1470.
280	4.03	33.87	278	26.91	117.5	4.86	5.83	1470.
290	4.02	33.89	288	26.92	116.2	4.98	6.17	1470.
300	3.99	33.90	298	26.94	115.3	5.10	6.52	1470.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 53

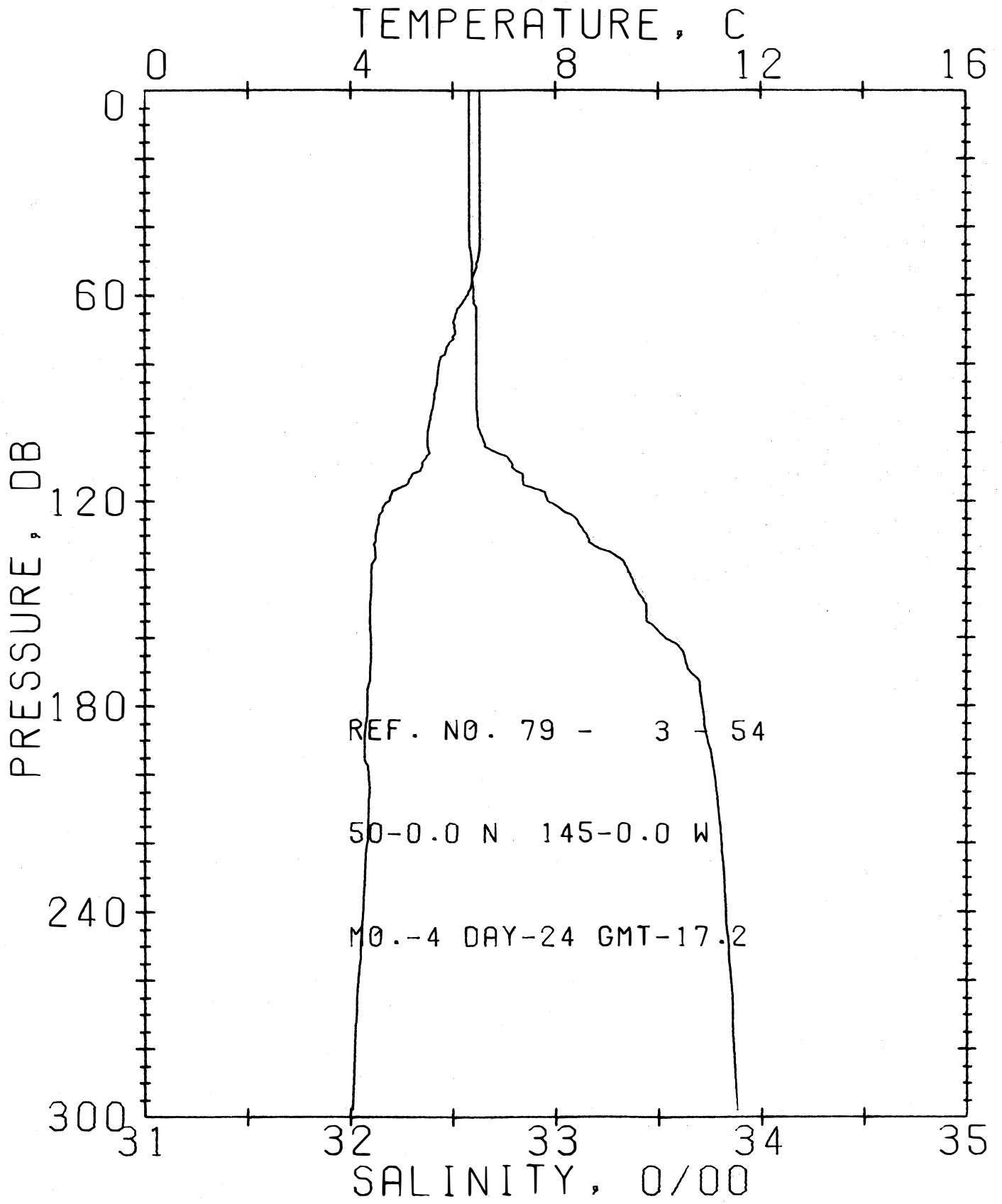
DATE 23/ 4/79

POSITION 50- .0N, 145- .0W GMT 17.2 STATION P

RESULTS OF STP CAST 205 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	6.54	32.53	0	25.56	243.4	.00	.00	1474.
10	6.53	32.54	10	25.57	242.7	.24	.01	1474.
20	6.51	32.56	20	25.59	241.1	.48	.05	1474.
30	6.51	32.57	30	25.60	240.4	.73	.11	1474.
50	6.50	32.58	50	25.60	239.9	1.21	.31	1475.
75	6.01	32.64	75	25.71	229.7	1.79	.68	1473.
100	5.53	32.74	99	25.85	216.9	2.36	1.18	1472.
125	4.44	33.16	124	26.30	173.9	2.83	1.72	1468.
150	4.36	33.50	149	26.58	147.8	3.23	2.28	1469.
175	4.31	33.72	174	26.76	131.0	3.57	2.85	1469.
200	4.32	33.79	199	26.81	126.1	3.89	3.46	1470.
225	4.21	33.82	223	26.85	122.9	4.20	4.14	1470.
250	4.12	33.85	248	26.88	120.2	4.51	4.87	1470.
300	3.99	33.90	298	26.94	115.3	5.10	6.52	1470.
400	3.91	34.00	397	27.02	108.1	6.23	10.54	1472.
500	3.78	34.07	496	27.09	101.9	7.28	15.36	1473.
600	3.63	34.16	595	27.18	94.3	8.26	20.84	1474.
800	3.23	34.30	793	27.33	81.3	10.00	33.24	1476.
1000	2.89	34.38	990	27.42	73.0	11.54	47.35	1478.
1200	2.63	34.45	1188	27.50	66.2	12.93	62.87	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 54

DATE 24/ 4/79

POSITION 50- .0N, 145- .0W

GMT 17.2

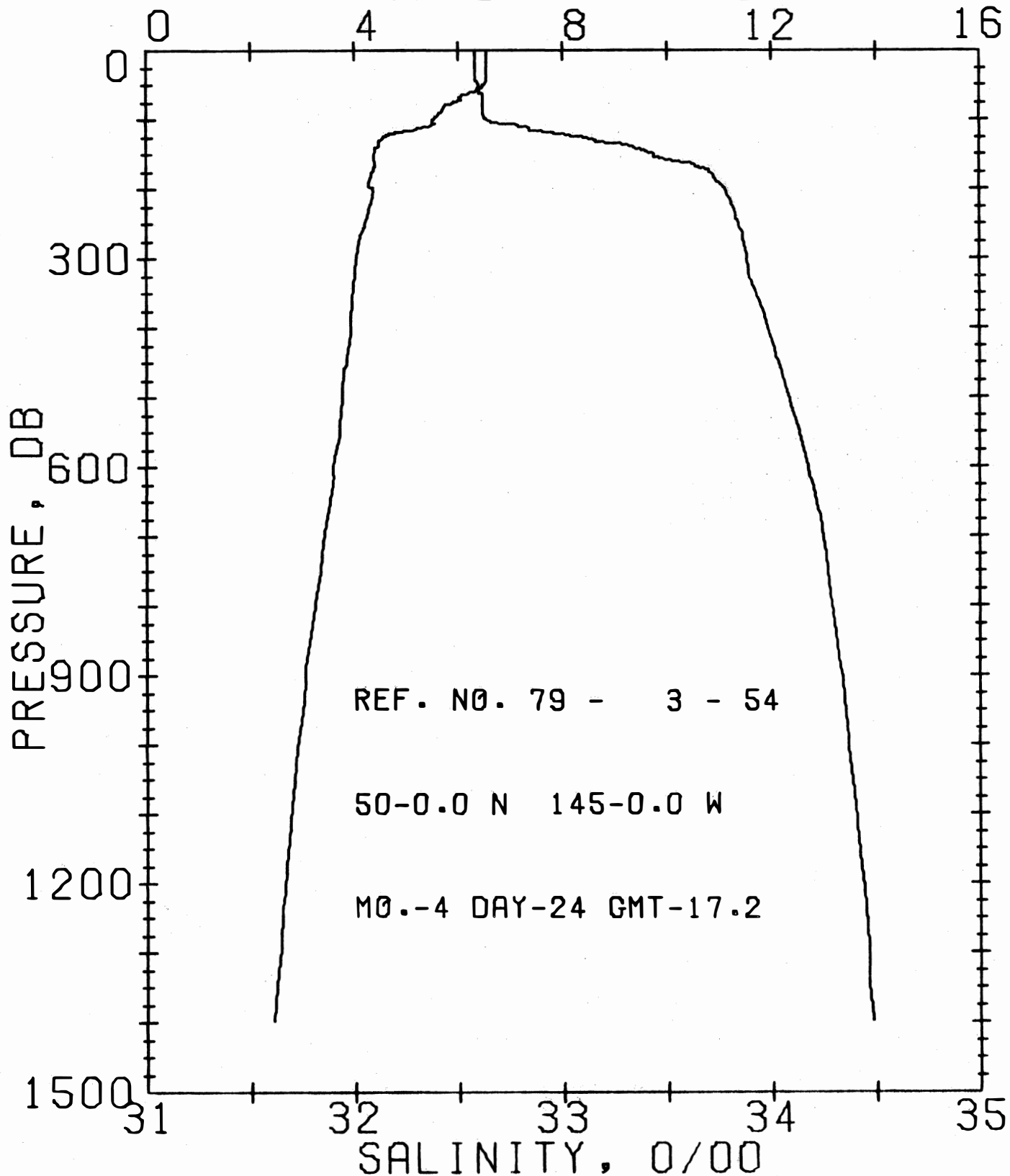
STATION P

RESULTS OF STP CAST 103 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	6.53	32.58	0	25.60	239.6	.00	.00	1474.
10	6.53	32.58	10	25.60	239.7	.24	.01	1474.
20	6.53	32.58	20	25.60	239.8	.48	.05	1474.
30	6.53	32.58	30	25.60	239.9	.72	.11	1474.
40	6.53	32.58	40	25.60	240.0	.96	.20	1475.
50	6.47	32.59	50	25.62	238.7	1.20	.31	1475.
60	6.27	32.60	60	25.65	235.6	1.44	.44	1474.
70	6.03	32.61	70	25.69	232.1	1.67	.59	1473.
80	5.73	32.61	79	25.72	228.7	1.90	.77	1472.
90	5.64	32.61	89	25.73	227.8	2.13	.97	1472.
100	5.49	32.63	99	25.77	224.7	2.35	1.19	1471.
110	5.38	32.79	109	25.91	211.6	2.57	1.42	1471.
120	4.75	32.96	119	26.11	192.1	2.78	1.66	1469.
130	4.49	33.15	129	26.29	175.2	2.96	1.89	1469.
140	4.41	33.35	139	26.45	159.6	3.12	2.12	1469.
150	4.37	33.44	149	26.53	152.4	3.28	2.35	1469.
160	4.39	33.53	159	26.60	145.9	3.43	2.59	1469.
170	4.38	33.65	169	26.70	136.9	3.57	2.82	1469.
180	4.32	33.71	179	26.75	131.7	3.70	3.06	1469.
190	4.26	33.73	189	26.78	129.5	3.83	3.31	1469.
200	4.35	33.77	199	26.80	127.7	3.96	3.56	1470.
210	4.33	33.79	209	26.82	126.1	4.09	3.83	1470.
220	4.31	33.81	218	26.83	124.7	4.22	4.10	1470.
230	4.26	33.82	228	26.84	123.5	4.34	4.39	1470.
240	4.24	33.83	238	26.85	122.6	4.46	4.68	1470.
250	4.19	33.84	248	26.87	121.4	4.58	4.98	1470.
260	4.13	33.85	258	26.88	119.9	4.71	5.30	1470.
270	4.10	33.86	268	26.89	119.2	4.82	5.62	1470.
280	4.06	33.87	278	26.90	118.4	4.94	5.95	1470.
290	4.04	33.87	288	26.91	117.6	5.06	6.30	1470.
300	4.02	33.88	298	26.92	117.0	5.18	6.65	1470.

TEMPERATURE, C



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 54

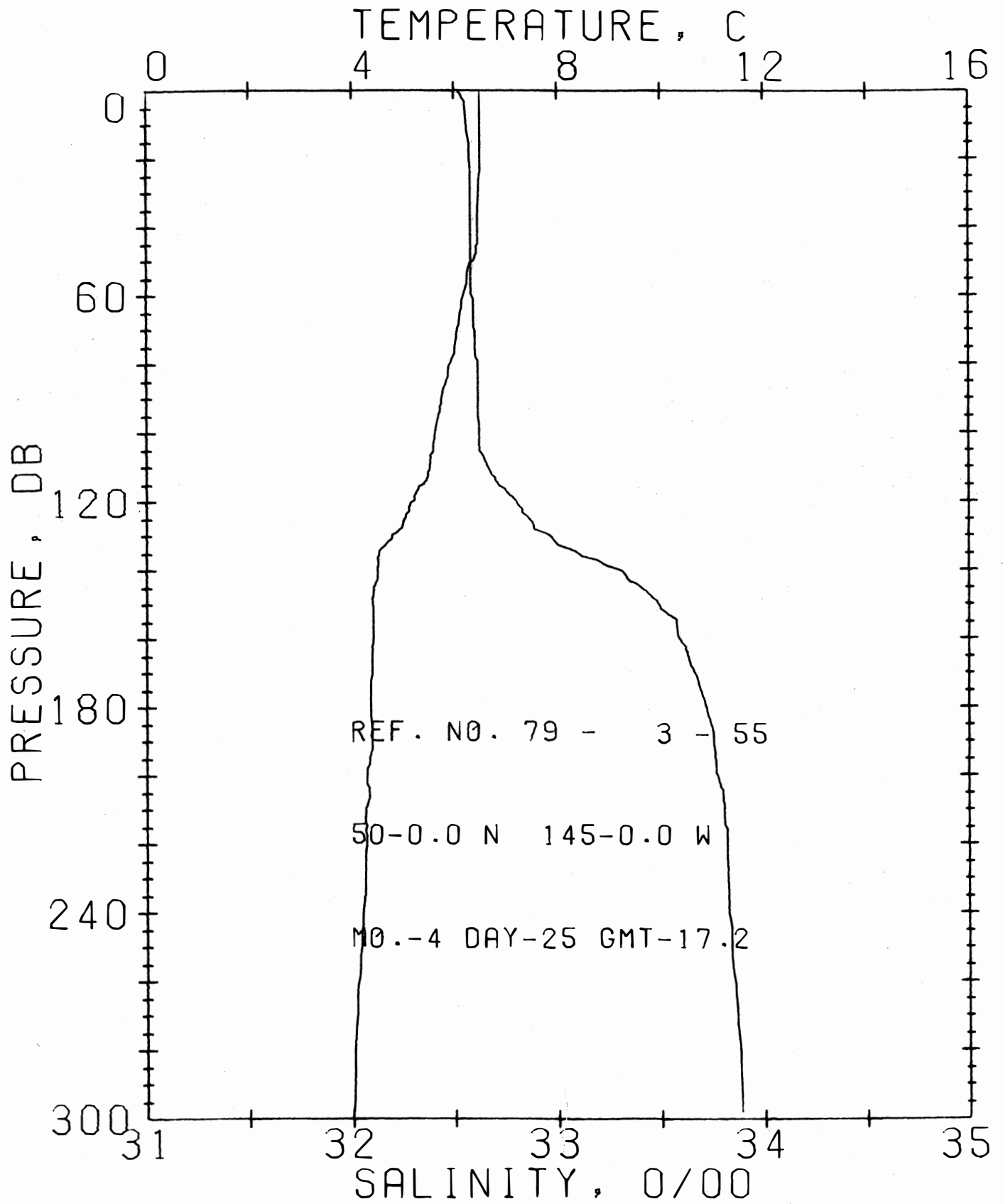
DATE 24/ 4/79

POSITION 50- .0N, 145- .0W GMT 17.2 STATION P

RESULTS OF STP CAST 153 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	6.53	32.58	0	25.60	239.6	.00	.00	1474.
10	6.53	32.58	10	25.60	239.7	.24	.01	1474.
20	6.53	32.58	20	25.60	239.8	.48	.05	1474.
30	6.53	32.58	30	25.60	239.9	.72	.11	1474.
50	6.47	32.59	50	25.62	238.7	1.20	.31	1475.
75	5.88	32.61	75	25.71	230.4	1.79	.68	1473.
100	5.49	32.63	99	25.77	224.7	2.35	1.19	1471.
125	4.54	33.10	124	26.24	179.4	2.87	1.77	1469.
150	4.37	33.44	149	26.53	152.4	3.28	2.35	1469.
175	4.33	33.70	174	26.74	132.7	3.64	2.94	1469.
200	4.35	33.77	199	26.80	127.7	3.96	3.56	1470.
225	4.29	33.81	223	26.84	124.2	4.28	4.24	1470.
250	4.19	33.84	248	26.87	121.4	4.58	4.98	1470.
300	4.02	33.88	298	26.92	117.0	5.18	6.65	1470.
400	3.92	33.98	397	27.01	109.1	6.31	10.69	1472.
500	3.75	34.08	496	27.11	100.7	7.36	15.50	1473.
600	3.58	34.17	595	27.19	93.3	8.33	20.93	1474.
800	3.21	34.29	793	27.32	81.7	10.07	33.31	1476.
1000	2.90	34.37	990	27.41	73.7	11.62	47.46	1478.
1200	2.65	34.44	1188	27.49	67.2	13.03	63.20	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 55

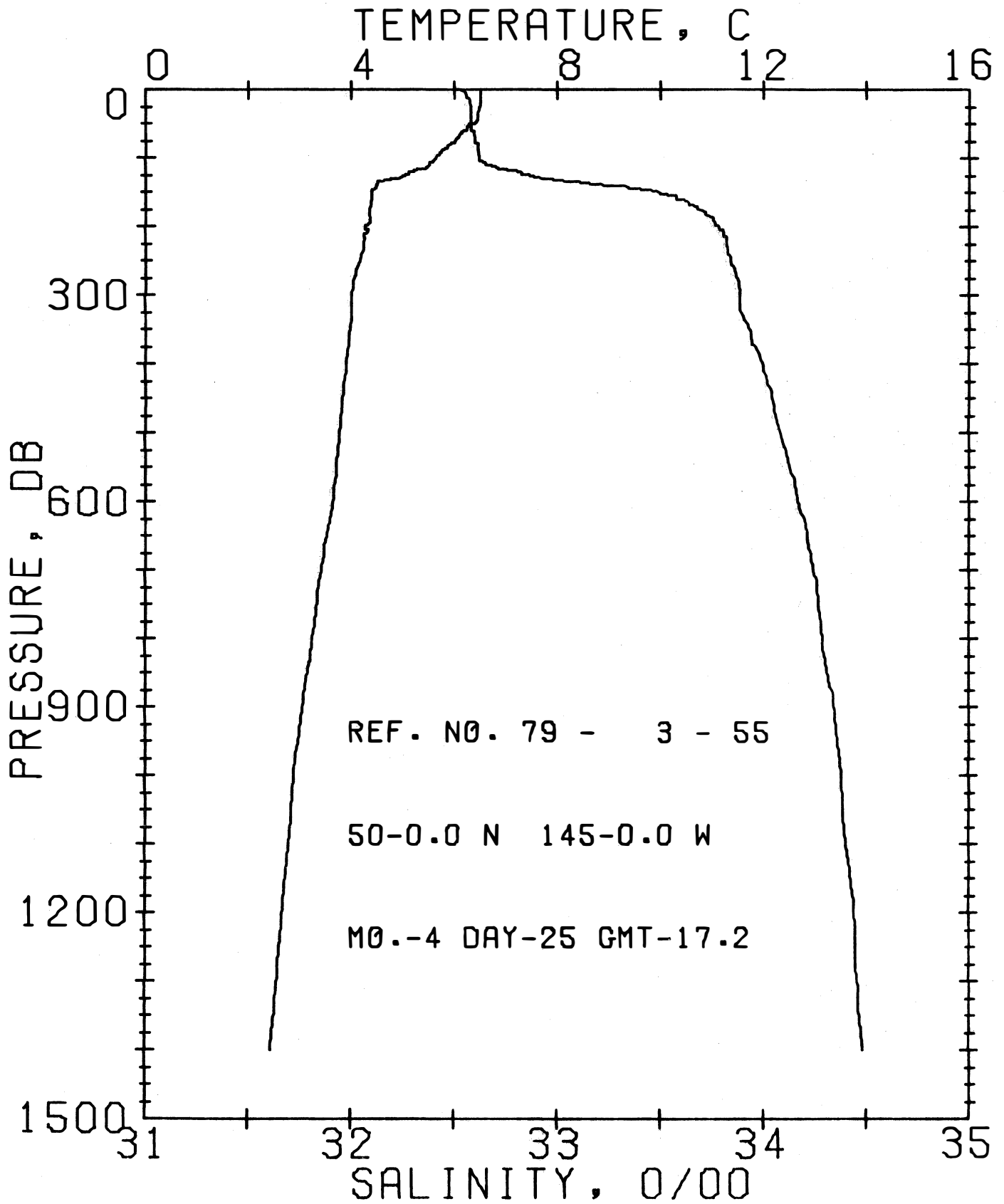
DATE 25/ 4/79

POSITION 50- .0N, 145- .0W GMT 17.2 STATION P

RESULTS OF STP CAST 142 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	6.51	32.52	0	25.56	243.8	.00	.00	1474.
10	6.51	32.56	10	25.59	241.0	.24	.01	1474.
20	6.51	32.57	20	25.60	240.3	.48	.05	1474.
30	6.47	32.58	30	25.61	239.2	.72	.11	1474.
40	6.46	32.58	40	25.61	239.2	.96	.20	1474.
50	6.37	32.58	50	25.62	238.2	1.20	.31	1474.
60	6.18	32.59	60	25.65	235.6	1.44	.44	1474.
70	6.05	32.60	70	25.68	233.1	1.67	.59	1473.
80	5.92	32.61	79	25.70	230.9	1.90	.77	1473.
90	5.74	32.61	89	25.72	229.0	2.13	.97	1472.
100	5.62	32.62	99	25.74	226.9	2.36	1.19	1472.
110	5.50	32.66	109	25.79	222.7	2.59	1.43	1472.
120	5.19	32.80	119	25.94	208.8	2.80	1.69	1471.
130	4.77	32.97	129	26.12	191.6	3.01	1.94	1469.
140	4.48	33.31	139	26.42	163.2	3.19	2.19	1469.
150	4.38	33.49	149	26.57	148.7	3.34	2.42	1469.
160	4.40	33.59	159	26.65	141.5	3.49	2.65	1469.
170	4.37	33.66	169	26.71	135.8	3.62	2.88	1469.
180	4.35	33.72	179	26.76	131.5	3.76	3.12	1470.
190	4.36	33.75	189	26.78	129.4	3.89	3.36	1470.
200	4.28	33.78	199	26.81	126.8	4.02	3.62	1470.
210	4.24	33.81	209	26.84	123.8	4.14	3.88	1470.
220	4.26	33.82	218	26.84	123.4	4.26	4.15	1470.
230	4.24	33.83	228	26.85	122.8	4.39	4.43	1470.
240	4.18	33.83	238	26.86	122.0	4.51	4.73	1470.
250	4.15	33.84	248	26.87	121.0	4.63	5.03	1470.
260	4.10	33.86	258	26.89	119.4	4.75	5.34	1470.
270	4.09	33.87	268	26.90	118.3	4.87	5.66	1470.
280	4.03	33.88	278	26.92	117.0	4.99	5.99	1470.
290	4.01	33.88	288	26.92	116.6	5.10	6.33	1470.
300	4.00	33.89	298	26.93	116.1	5.22	6.68	1470.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 55

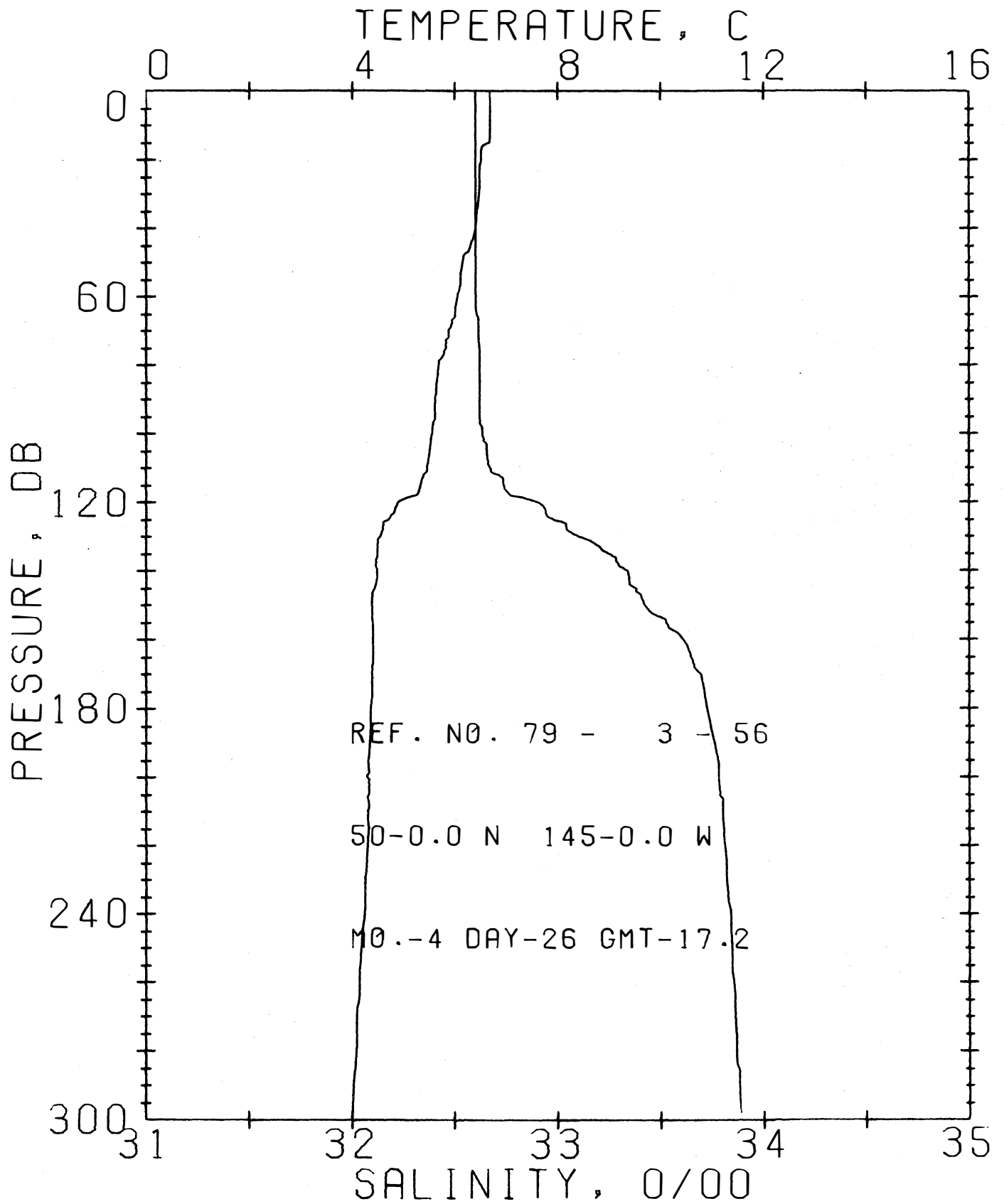
DATE 25/ 4/79

POSITION 50- .0N, 145- .0W GMT 17.2 STATION P

RESULTS OF STP CAST 220 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	6.51	32.52	0	25.56	243.8	.00	.00	1474.
10	6.51	32.56	10	25.59	241.0	.24	.01	1474.
20	6.51	32.57	20	25.60	240.3	.48	.05	1474.
30	6.47	32.58	30	25.61	239.2	.72	.11	1474.
50	6.37	32.58	50	25.62	238.2	1.20	.31	1474.
75	6.01	32.60	75	25.68	232.7	1.79	.68	1473.
100	5.62	32.62	99	25.74	226.9	2.36	1.19	1472.
125	5.02	32.87	124	26.01	201.8	2.91	1.81	1470.
150	4.38	33.49	149	26.57	148.7	3.34	2.42	1469.
175	4.34	33.69	174	26.73	133.5	3.69	3.00	1469.
200	4.28	33.78	199	26.81	126.8	4.02	3.62	1470.
225	4.25	33.82	223	26.85	123.1	4.33	4.29	1470.
250	4.15	33.84	248	26.87	121.0	4.63	5.03	1470.
300	4.00	33.89	298	26.93	116.1	5.22	6.68	1470.
400	3.90	34.00	397	27.02	108.0	6.35	10.70	1472.
500	3.77	34.08	496	27.10	100.9	7.40	15.49	1473.
600	3.63	34.17	595	27.18	94.0	8.37	20.94	1474.
800	3.23	34.29	793	27.32	81.9	10.11	33.32	1476.
1000	2.88	34.38	990	27.42	72.7	11.65	47.44	1478.
1200	2.65	34.44	1188	27.49	66.8	13.06	63.15	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 56

DATE 26/ 4/79

POSITION 50- .0N, 145- .0W

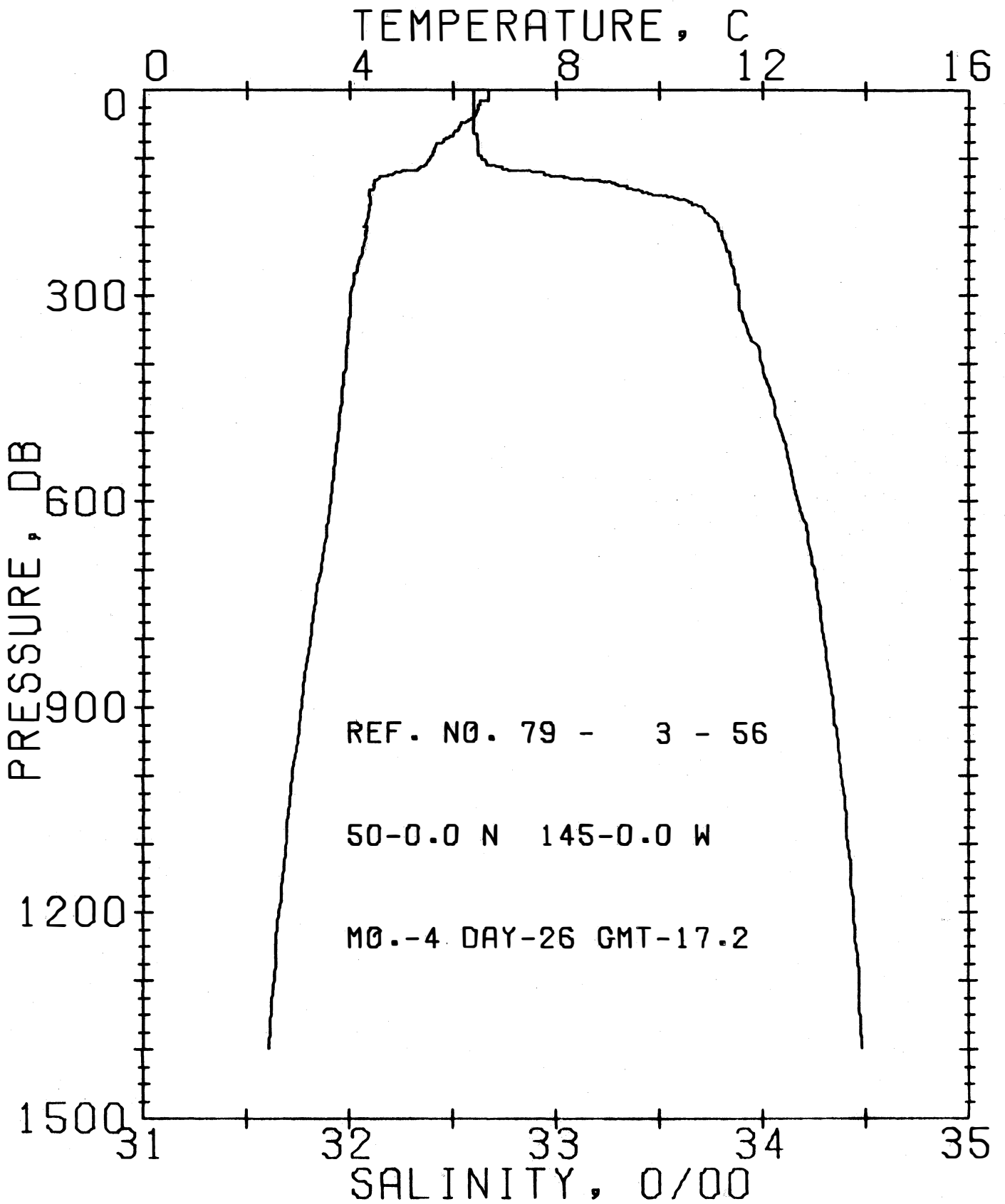
GMT 17.2

STATION P

RESULTS OF STP CAST 139 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	6.68	32.60	0	25.60	239.9	.00	.00	1475.
10	6.69	32.60	10	25.60	240.2	.24	.01	1475.
20	6.51	32.60	20	25.62	238.1	.48	.05	1474.
30	6.47	32.60	30	25.62	237.6	.72	.11	1474.
40	6.40	32.60	40	25.63	237.0	.95	.19	1474.
50	6.14	32.60	50	25.67	233.9	1.19	.30	1473.
60	6.05	32.60	60	25.68	232.9	1.42	.43	1473.
70	5.88	32.61	70	25.71	230.4	1.66	.59	1473.
80	5.68	32.62	79	25.74	227.4	1.88	.76	1472.
90	5.61	32.62	89	25.75	226.7	2.11	.96	1472.
100	5.54	32.63	99	25.76	225.3	2.34	1.18	1472.
110	5.45	32.67	109	25.80	221.4	2.56	1.42	1472.
120	4.88	32.91	119	26.06	197.2	2.78	1.67	1470.
130	4.53	33.10	129	26.25	179.4	2.96	1.91	1469.
140	4.47	33.34	139	26.44	160.8	3.13	2.14	1469.
150	4.36	33.42	149	26.52	153.8	3.29	2.37	1469.
160	4.40	33.61	159	26.66	140.4	3.44	2.60	1469.
170	4.36	33.69	169	26.73	133.7	3.57	2.84	1469.
180	4.35	33.72	179	26.76	131.2	3.71	3.07	1470.
190	4.33	33.76	189	26.79	128.2	3.84	3.32	1470.
200	4.28	33.78	199	26.81	126.4	3.96	3.57	1470.
210	4.29	33.80	209	26.83	125.1	4.09	3.83	1470.
220	4.28	33.81	218	26.84	124.2	4.21	4.11	1470.
230	4.24	33.82	228	26.85	123.3	4.34	4.39	1470.
240	4.22	33.84	238	26.86	121.7	4.46	4.68	1470.
250	4.18	33.85	248	26.88	120.6	4.58	4.99	1470.
260	4.13	33.85	258	26.89	119.8	4.70	5.30	1470.
270	4.09	33.86	268	26.90	118.8	4.82	5.62	1470.
280	4.07	33.87	278	26.90	118.1	4.94	5.95	1470.
290	4.02	33.88	288	26.92	116.8	5.06	6.29	1470.
300	4.01	33.89	298	26.93	116.2	5.17	6.64	1470.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 56

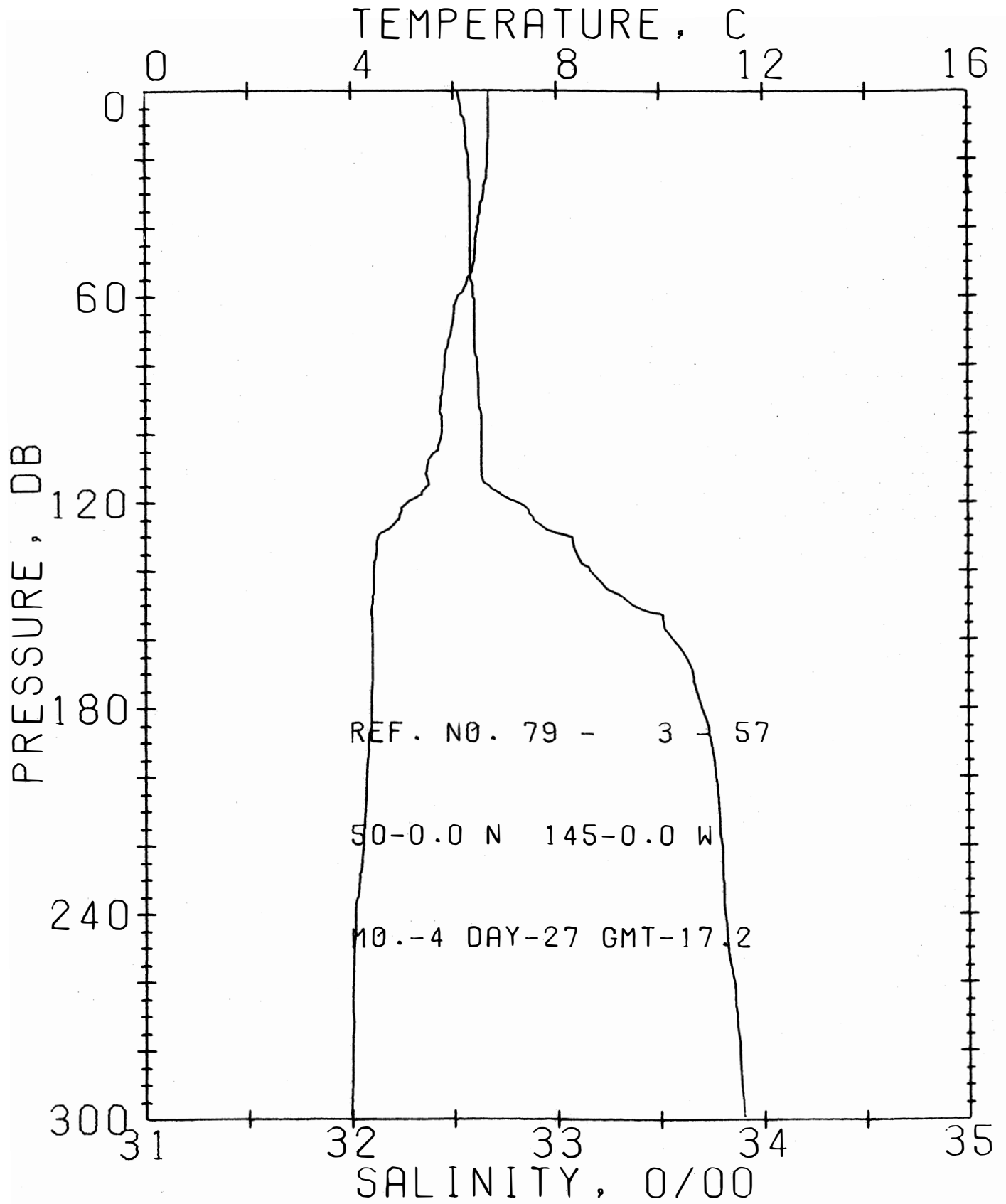
DATE 26/ 4/79

POSITION 50- .0N, 145- .0W GMT 17.2 STATION P

RESULTS OF STP CAST 213 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	6.68	32.60	0	25.60	239.9	.00	.00	1475.
10	6.69	32.60	10	25.60	240.2	.24	.01	1475.
20	6.51	32.60	20	25.62	238.1	.48	.05	1474.
30	6.47	32.60	30	25.62	237.6	.72	.11	1474.
50	6.14	32.60	50	25.67	233.9	1.19	.30	1473.
75	5.80	32.62	75	25.72	228.7	1.77	.67	1472.
100	5.54	32.63	99	25.76	225.3	2.34	1.18	1472.
125	4.70	32.98	124	26.13	190.1	2.87	1.79	1469.
150	4.36	33.42	149	26.52	153.8	3.29	2.37	1469.
175	4.36	33.70	174	26.74	132.7	3.64	2.95	1469.
200	4.28	33.78	199	26.81	126.4	3.96	3.57	1470.
225	4.26	33.82	223	26.84	123.6	4.28	4.25	1470.
250	4.18	33.85	248	26.88	120.6	4.58	4.99	1470.
300	4.01	33.89	298	26.93	116.2	5.17	6.64	1470.
400	3.91	33.99	397	27.02	108.1	6.30	10.66	1472.
500	3.76	34.09	496	27.11	100.4	7.35	15.44	1473.
600	3.63	34.17	595	27.19	93.8	8.31	20.87	1474.
800	3.23	34.30	793	27.33	81.3	10.05	33.21	1476.
1000	2.88	34.38	990	27.42	72.7	11.59	47.27	1478.
1200	2.62	34.44	1188	27.50	66.5	12.97	62.78	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 57

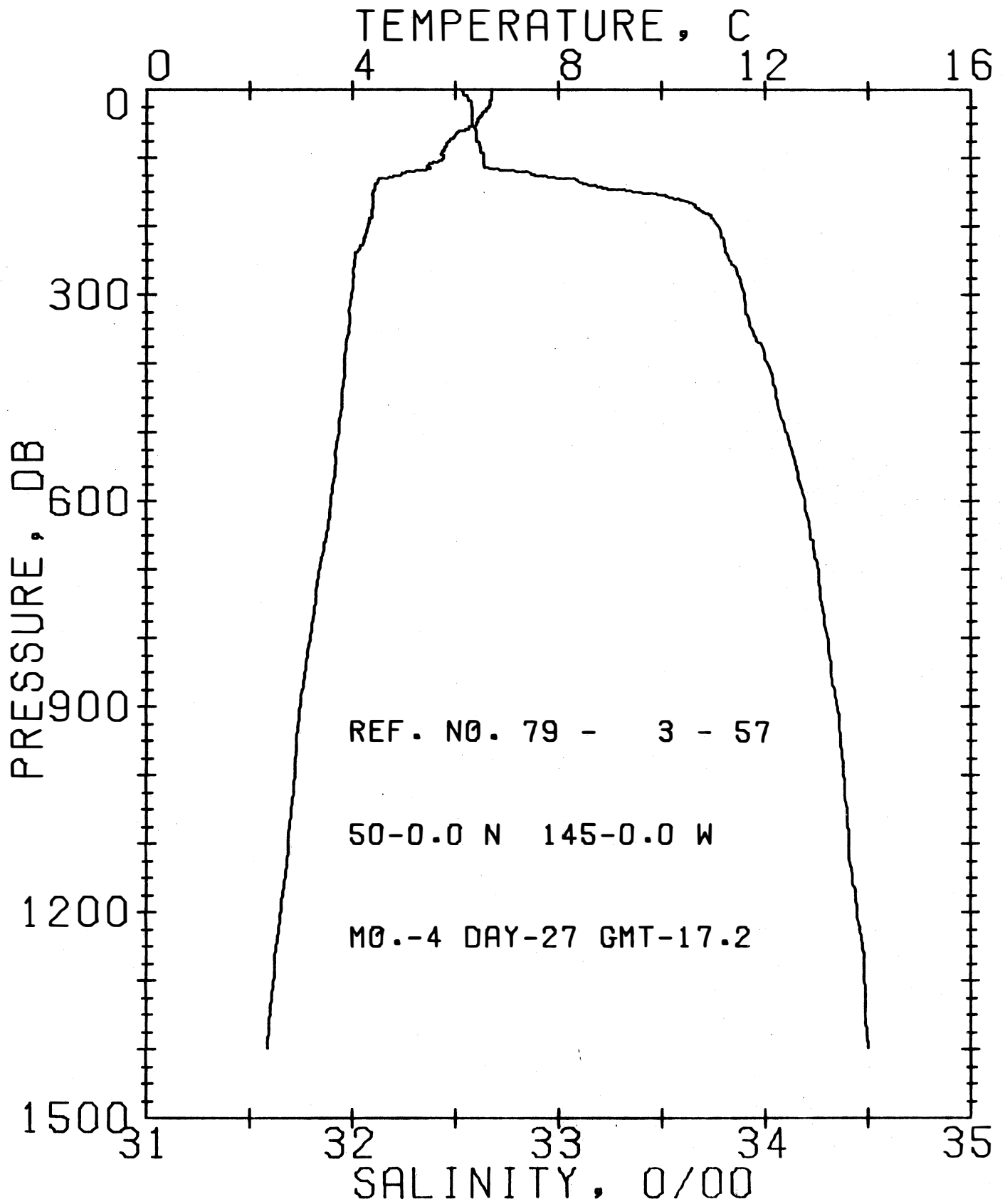
DATE 27/ 4/79

POSITION 50- .0N, 145- .0W GMT 17.2 STATION P

RESULTS OF STP CAST 144 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	6.70	32.52	0	25.53	246.1	.00	.00	1475.
10	6.70	32.56	10	25.56	243.5	.25	.01	1475.
20	6.67	32.57	20	25.57	242.3	.49	.05	1475.
30	6.58	32.58	30	25.59	240.5	.73	.11	1475.
40	6.46	32.58	40	25.61	239.2	.97	.20	1474.
50	6.39	32.58	50	25.62	238.5	1.21	.31	1474.
60	6.07	32.59	60	25.67	234.0	1.45	.44	1473.
70	5.94	32.60	70	25.69	231.8	1.68	.59	1473.
80	5.81	32.61	79	25.71	229.7	1.91	.77	1472.
90	5.74	32.62	89	25.73	228.2	2.14	.97	1472.
100	5.75	32.63	99	25.74	227.7	2.36	1.19	1473.
110	5.47	32.63	109	25.77	224.6	2.59	1.43	1472.
120	5.09	32.81	119	25.96	207.0	2.81	1.69	1470.
130	4.50	33.07	129	26.23	181.3	3.01	1.94	1468.
140	4.43	33.16	139	26.30	173.9	3.19	2.19	1468.
150	4.39	33.37	149	26.47	157.8	3.35	2.43	1469.
160	4.41	33.56	159	26.62	143.9	3.50	2.67	1469.
170	4.39	33.65	169	26.70	136.7	3.64	2.90	1469.
180	4.37	33.70	179	26.74	133.2	3.78	3.14	1470.
190	4.32	33.74	189	26.78	129.4	3.91	3.39	1470.
200	4.28	33.77	199	26.80	127.2	4.04	3.64	1470.
210	4.26	33.79	209	26.82	125.8	4.16	3.91	1470.
220	4.21	33.80	218	26.83	124.4	4.29	4.18	1470.
230	4.13	33.80	228	26.85	123.2	4.41	4.47	1470.
240	4.05	33.81	238	26.86	121.8	4.53	4.76	1469.
250	4.03	33.83	248	26.87	120.6	4.66	5.06	1469.
260	4.02	33.85	258	26.90	118.6	4.78	5.37	1470.
270	4.01	33.87	268	26.91	117.4	4.89	5.69	1470.
280	4.00	33.88	278	26.92	116.7	5.01	6.02	1470.
290	3.99	33.89	288	26.93	115.8	5.13	6.36	1470.
300	3.98	33.90	298	26.94	115.1	5.24	6.71	1470.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 57

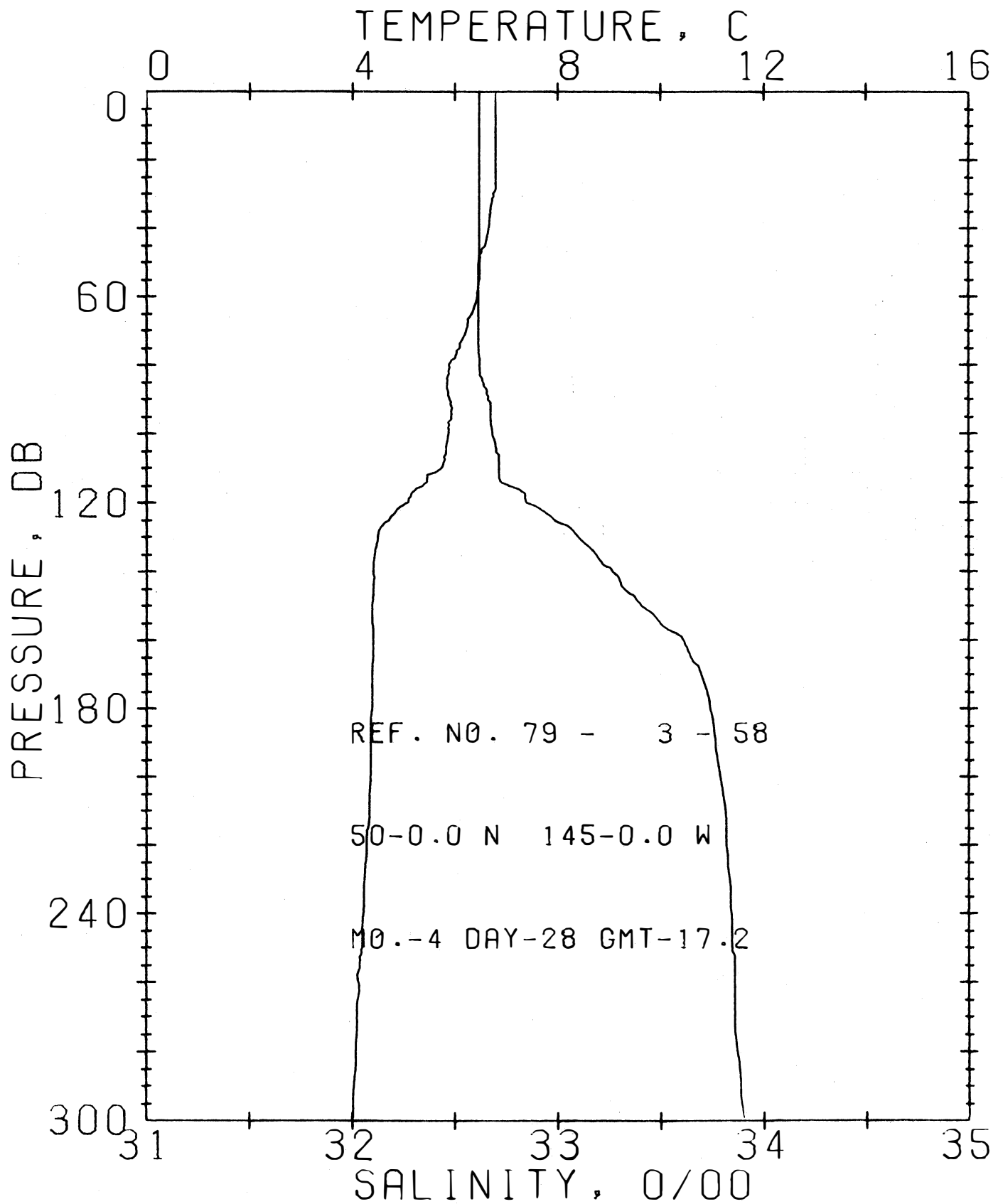
DATE 27/ 4/79

POSITION 50- .0N, 145- .0W GMT 17.2 STATION P

RESULTS OF STP CAST 245 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	6.70	32.52	0	25.53	246.1	.00	.00	1475.
10	6.70	32.56	10	25.56	243.5	.25	.01	1475.
20	6.67	32.57	20	25.57	242.3	.49	.05	1475.
30	6.58	32.58	30	25.59	240.5	.73	.11	1475.
50	6.39	32.58	50	25.62	238.5	1.21	.31	1474.
75	5.87	32.60	75	25.70	231.0	1.79	.68	1473.
100	5.75	32.63	99	25.74	227.7	2.36	1.19	1473.
125	4.90	32.89	124	26.04	199.0	2.91	1.81	1470.
150	4.39	33.37	149	26.47	157.8	3.35	2.43	1469.
175	4.38	33.67	174	26.72	135.1	3.71	3.02	1470.
200	4.28	33.77	199	26.80	127.2	4.04	3.64	1470.
225	4.19	33.80	223	26.84	124.2	4.35	4.32	1470.
250	4.03	33.83	248	26.87	120.6	4.66	5.06	1469.
300	3.98	33.90	298	26.94	115.1	5.24	6.71	1470.
400	3.84	34.01	397	27.04	106.3	6.36	10.67	1471.
500	3.73	34.10	496	27.12	99.1	7.38	15.38	1473.
600	3.58	34.19	595	27.21	91.7	8.34	20.71	1474.
800	3.17	34.31	793	27.34	80.0	10.05	32.91	1475.
1000	2.87	34.38	990	27.43	72.4	11.57	46.79	1478.
1200	2.61	34.45	1188	27.50	65.7	12.96	62.35	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 58

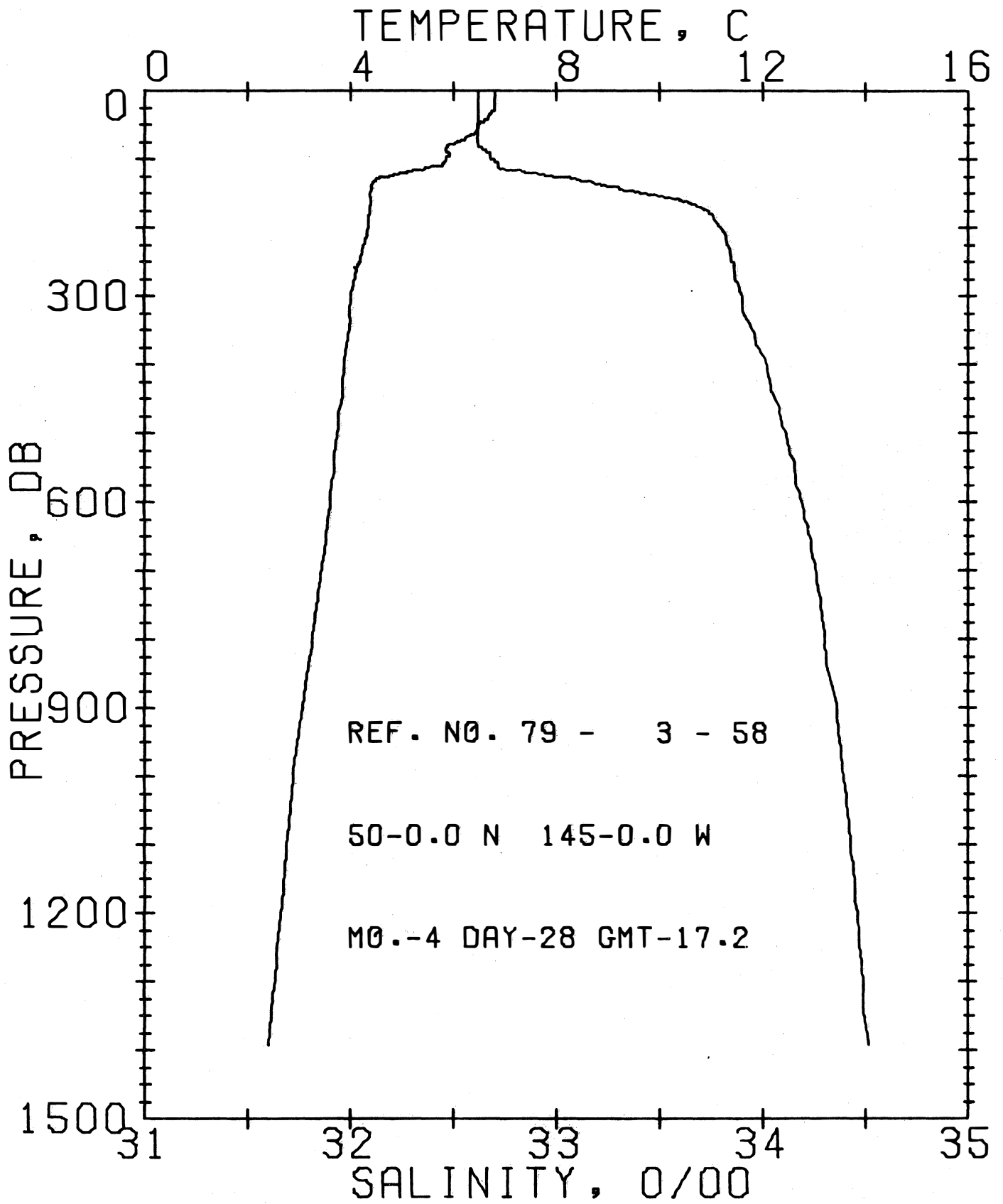
DATE 28/ 4/79

POSITION 50- .0N, 145- .0W GMT 17.2 STATION P

RESULTS OF STP CAST 147 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	6.81	32.62	0	25.60	240.0	.00	.00	1475.
10	6.80	32.62	10	25.60	240.0	.24	.01	1475.
20	6.80	32.62	20	25.60	240.2	.48	.05	1475.
30	6.76	32.62	30	25.60	239.8	.72	.11	1475.
40	6.65	32.62	40	25.62	238.5	.96	.20	1475.
50	6.48	32.61	50	25.63	237.1	1.20	.30	1475.
60	6.43	32.61	60	25.64	236.8	1.43	.44	1475.
70	6.22	32.61	70	25.66	234.4	1.67	.59	1474.
80	5.88	32.62	79	25.71	229.7	1.90	.77	1473.
90	5.90	32.66	89	25.74	227.1	2.13	.97	1473.
100	5.86	32.68	99	25.76	225.2	2.36	1.19	1473.
110	5.73	32.71	109	25.80	221.6	2.58	1.43	1473.
120	5.07	32.85	119	25.99	203.8	2.79	1.68	1470.
130	4.49	33.10	129	26.25	178.9	2.98	1.92	1468.
140	4.41	33.27	139	26.39	165.5	3.15	2.15	1469.
150	4.38	33.41	149	26.51	154.7	3.31	2.39	1469.
160	4.40	33.61	159	26.66	140.2	3.46	2.62	1469.
170	4.38	33.69	169	26.73	133.5	3.60	2.85	1469.
180	4.36	33.74	179	26.77	130.1	3.73	3.09	1470.
190	4.34	33.77	189	26.80	127.7	3.86	3.33	1470.
200	4.34	33.79	199	26.81	126.0	3.99	3.58	1470.
210	4.31	33.82	209	26.84	124.1	4.11	3.84	1470.
220	4.28	33.82	218	26.84	123.6	4.23	4.12	1470.
230	4.23	33.84	228	26.86	121.9	4.36	4.40	1470.
240	4.19	33.84	238	26.87	121.0	4.48	4.69	1470.
250	4.18	33.85	248	26.88	120.6	4.60	4.99	1470.
260	4.11	33.86	258	26.89	119.2	4.72	5.30	1470.
270	4.08	33.86	268	26.90	118.9	4.84	5.62	1470.
280	4.06	33.87	278	26.91	117.7	4.96	5.95	1470.
290	4.01	33.89	288	26.93	116.2	5.07	6.29	1470.
300	3.99	33.90	298	26.94	115.3	5.19	6.64	1470.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 58

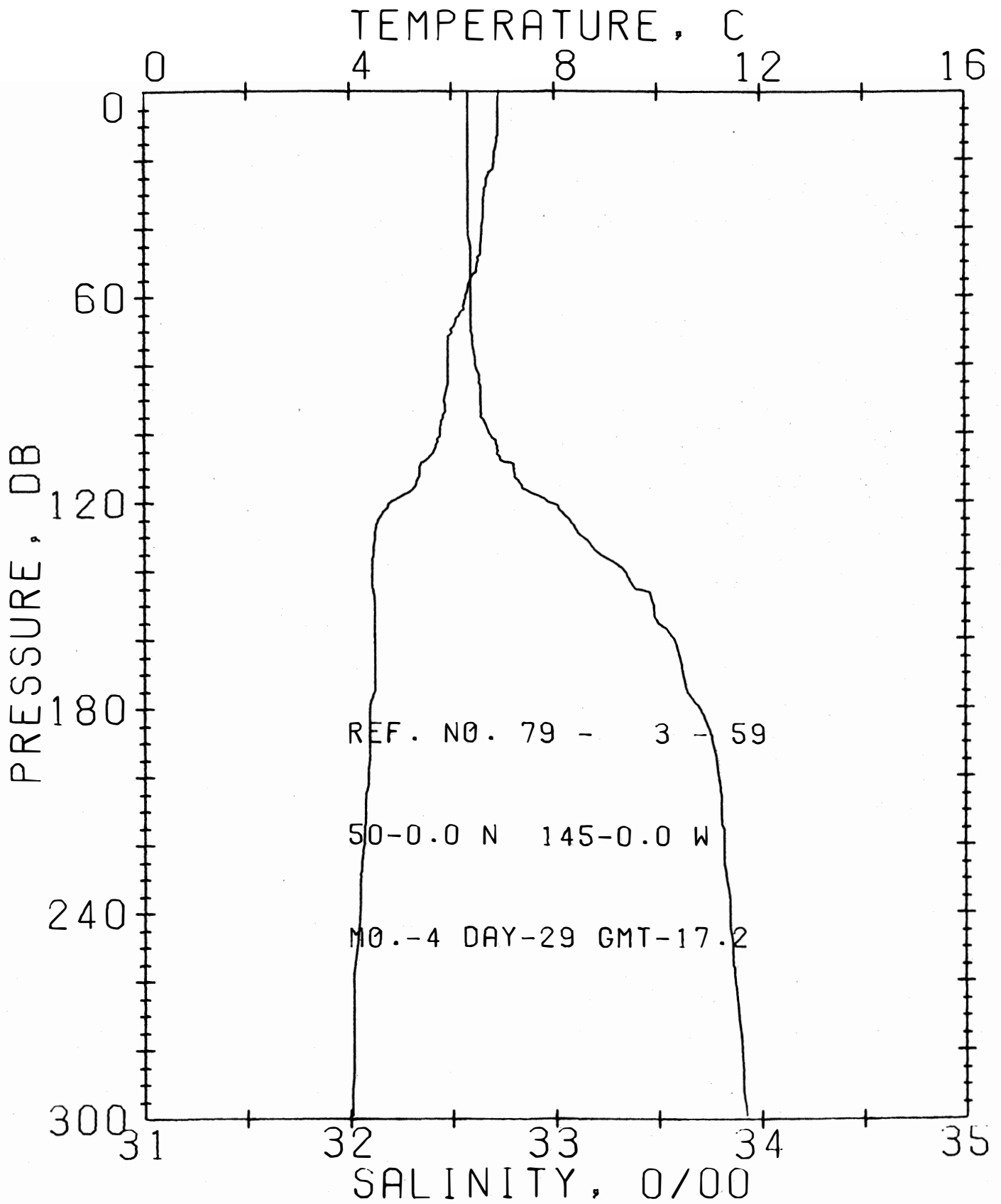
DATE 28/ 4/79

POSITION 50- .0N, 145- .0W GMT 17.2 STATION P

RESULTS OF STP CAST 225 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

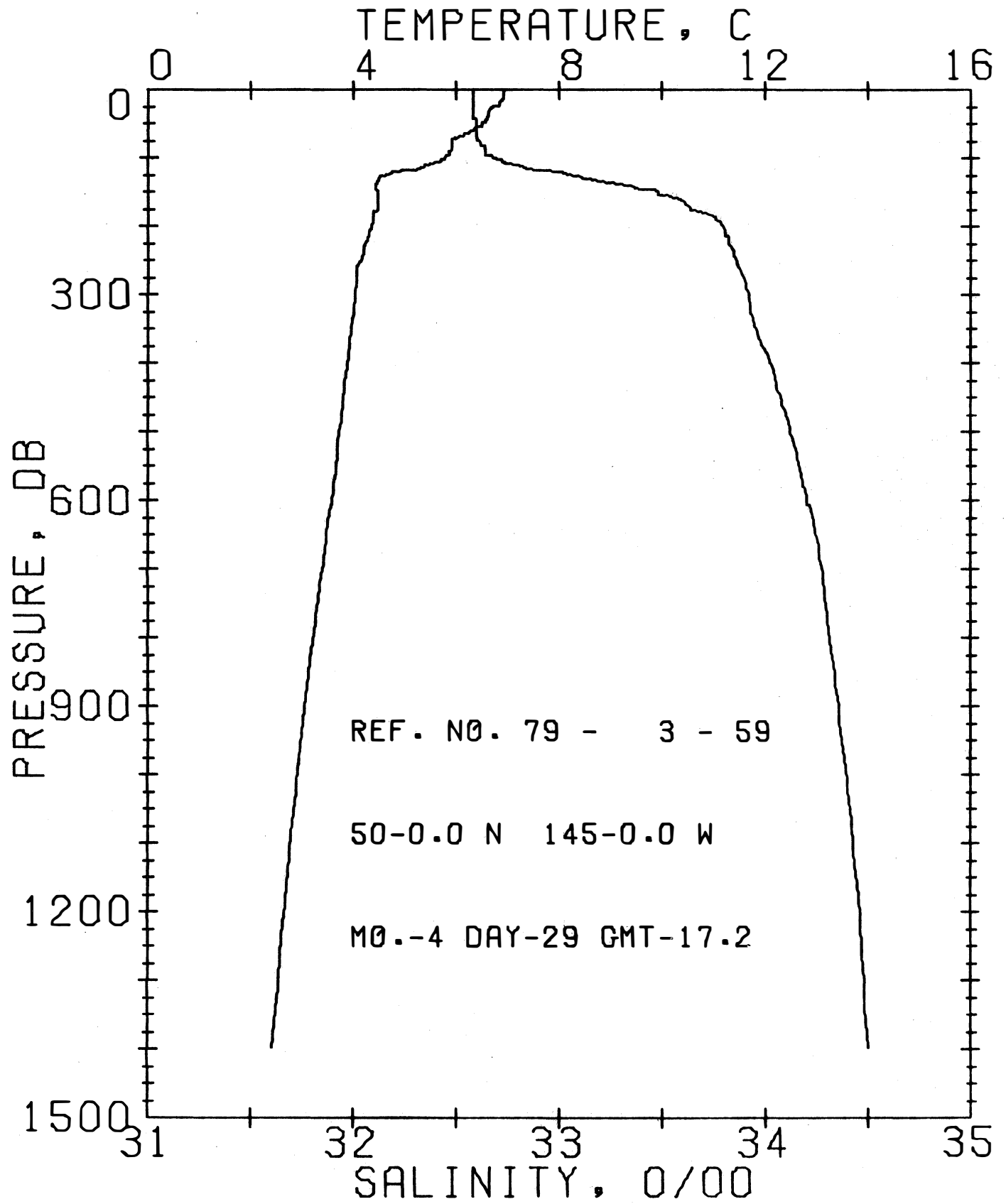
PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	6.81	32.62	0	25.60	240.0	.00	.00	1475.
10	6.80	32.62	10	25.60	240.0	.24	.01	1475.
20	6.80	32.62	20	25.60	240.2	.48	.05	1475.
30	6.76	32.62	30	25.60	239.8	.72	.11	1475.
50	6.48	32.61	50	25.63	237.1	1.20	.30	1475.
75	6.07	32.61	75	25.68	232.7	1.79	.68	1473.
100	5.86	32.68	99	25.76	225.2	2.36	1.19	1473.
125	4.70	32.99	124	26.14	189.3	2.89	1.80	1469.
150	4.38	33.41	149	26.51	154.7	3.31	2.39	1469.
175	4.37	33.72	174	26.75	131.6	3.66	2.97	1470.
200	4.34	33.79	199	26.81	126.0	3.99	3.58	1470.
225	4.25	33.83	223	26.85	122.6	4.30	4.26	1470.
250	4.18	33.85	248	26.88	120.6	4.60	4.99	1470.
300	3.99	33.90	298	26.94	115.3	5.19	6.64	1470.
400	3.88	34.01	397	27.04	106.3	6.31	10.62	1472.
500	3.73	34.11	496	27.13	98.7	7.33	15.32	1473.
600	3.60	34.19	595	27.20	92.2	8.29	20.67	1474.
800	3.26	34.30	793	27.33	81.5	10.01	32.93	1476.
1000	2.88	34.39	990	27.44	71.7	11.54	46.88	1478.
1200	2.64	34.46	1188	27.51	65.5	12.91	62.22	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 59 DATE 29/ 4/79
 POSITION 50- .0N, 145- .0W GMT 17.2 STATION P
 RESULTS OF STP CAST 153 POINTS TAKEN FROM ANALOG TRACE
 GUIDELINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	6.93	32.58	0	25.55	244.5	.00	.00	1476.
10	6.92	32.58	10	25.55	244.5	.24	.01	1476.
20	6.83	32.58	20	25.56	243.5	.49	.05	1476.
30	6.63	32.58	30	25.59	241.1	.73	.11	1475.
40	6.60	32.58	40	25.59	240.9	.97	.20	1475.
50	6.50	32.59	50	25.61	239.1	1.21	.31	1475.
60	6.28	32.59	60	25.64	236.5	1.45	.44	1474.
70	5.97	32.59	70	25.68	232.9	1.68	.60	1473.
80	5.92	32.61	79	25.70	230.9	1.92	.77	1473.
90	5.85	32.64	89	25.73	228.0	2.15	.97	1473.
100	5.76	32.68	99	25.77	224.1	2.37	1.19	1473.
110	5.35	32.80	109	25.92	210.5	2.59	1.43	1471.
120	4.81	32.97	119	26.11	192.0	2.80	1.67	1469.
130	4.48	33.13	129	26.27	176.6	2.98	1.90	1468.
140	4.42	33.34	139	26.45	160.3	3.15	2.13	1469.
150	4.47	33.48	149	26.55	150.4	3.30	2.36	1469.
160	4.48	33.58	159	26.63	143.1	3.45	2.59	1470.
170	4.48	33.62	169	26.66	140.4	3.59	2.83	1470.
180	4.38	33.70	179	26.74	133.3	3.73	3.08	1470.
190	4.37	33.76	189	26.79	128.4	3.86	3.32	1470.
200	4.35	33.79	199	26.81	126.1	3.99	3.58	1470.
210	4.30	33.81	209	26.83	124.4	4.11	3.84	1470.
220	4.28	33.82	218	26.84	123.6	4.24	4.11	1470.
230	4.20	33.83	228	26.86	121.9	4.36	4.39	1470.
240	4.17	33.85	238	26.88	120.3	4.48	4.68	1470.
250	4.12	33.86	248	26.89	119.2	4.60	4.98	1470.
260	4.06	33.87	258	26.91	117.7	4.72	5.29	1470.
270	4.06	33.89	268	26.92	116.5	4.84	5.61	1470.
280	4.06	33.90	278	26.93	115.5	4.95	5.93	1470.
290	4.04	33.91	288	26.94	114.9	5.07	6.26	1470.
300	4.02	33.92	298	26.95	114.0	5.18	6.61	1470.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 59

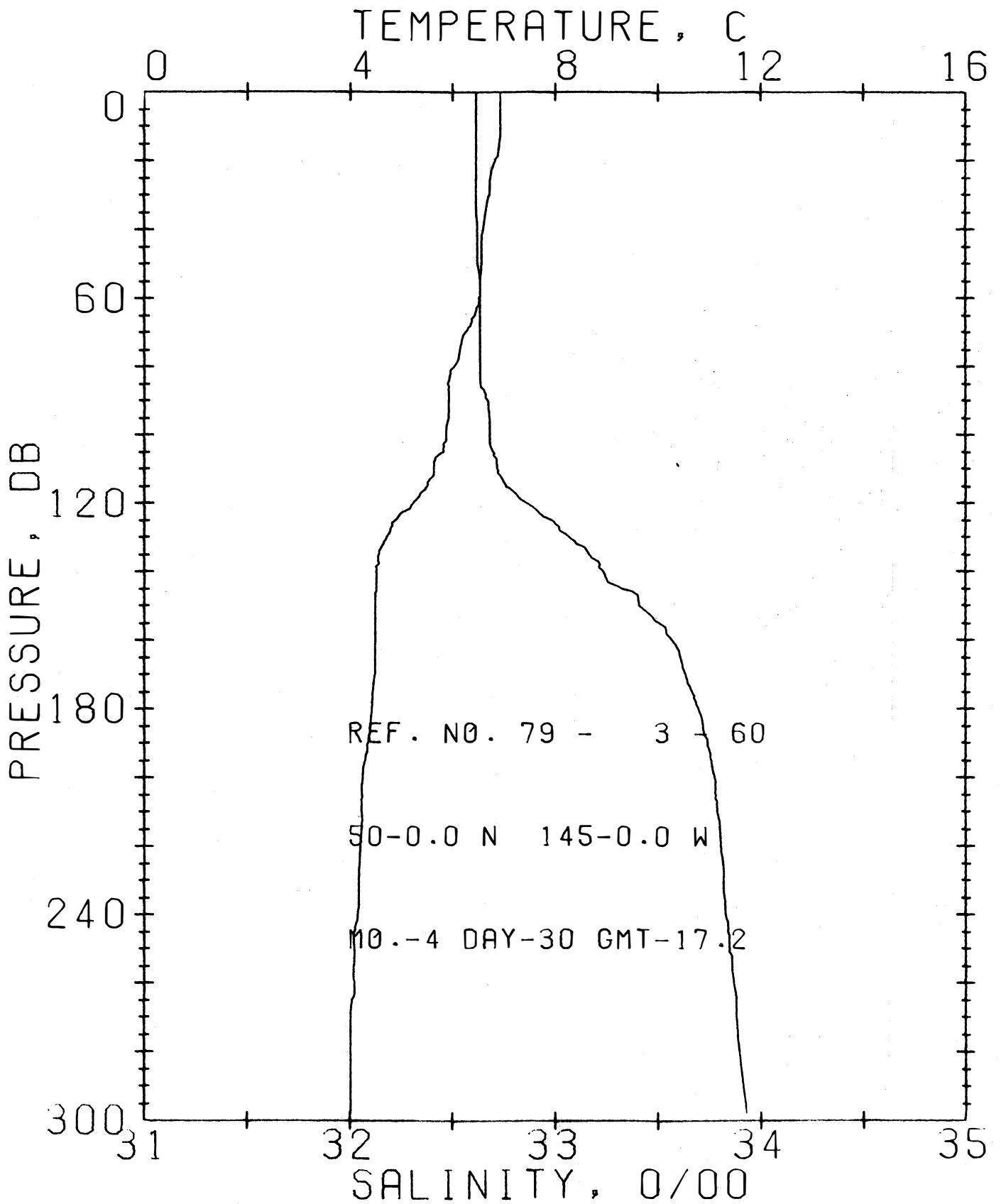
DATE 29/ 4/79

POSITION 50- .0N, 145- .0W GMT 17.2 STATION P

RESULTS OF STP CAST 223 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS.	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	6.93	32.58	0	25.55	244.5	.00	.00	1476.
10	6.92	32.58	10	25.55	244.5	.24	.01	1476.
20	6.83	32.58	20	25.56	243.5	.49	.05	1476.
30	6.63	32.58	30	25.59	241.1	.73	.11	1475.
50	6.50	32.59	50	25.61	239.1	1.21	.31	1475.
75	5.92	32.60	75	25.69	231.5	1.80	.68	1473.
100	5.76	32.68	99	25.77	224.1	2.37	1.19	1473.
125	4.57	33.07	124	26.22	182.0	2.89	1.78	1469.
150	4.47	33.48	149	26.55	150.4	3.30	2.36	1469.
175	4.47	33.64	174	26.68	138.7	3.66	2.96	1470.
200	4.35	33.79	199	26.81	126.1	3.99	3.58	1470.
225	4.22	33.82	223	26.85	123.0	4.30	4.25	1470.
250	4.12	33.86	248	26.89	119.2	4.60	4.98	1470.
300	4.02	33.92	298	26.95	114.0	5.18	6.61	1470.
400	3.87	34.02	397	27.04	105.9	6.29	10.56	1472.
500	3.71	34.12	496	27.14	97.6	7.31	15.21	1473.
600	3.58	34.20	595	27.22	90.9	8.25	20.48	1474.
800	3.20	34.31	793	27.34	80.0	9.94	32.51	1476.
1000	2.90	34.40	990	27.44	71.7	11.45	46.38	1478.
1200	2.64	34.46	1188	27.51	65.5	12.82	61.73	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 60

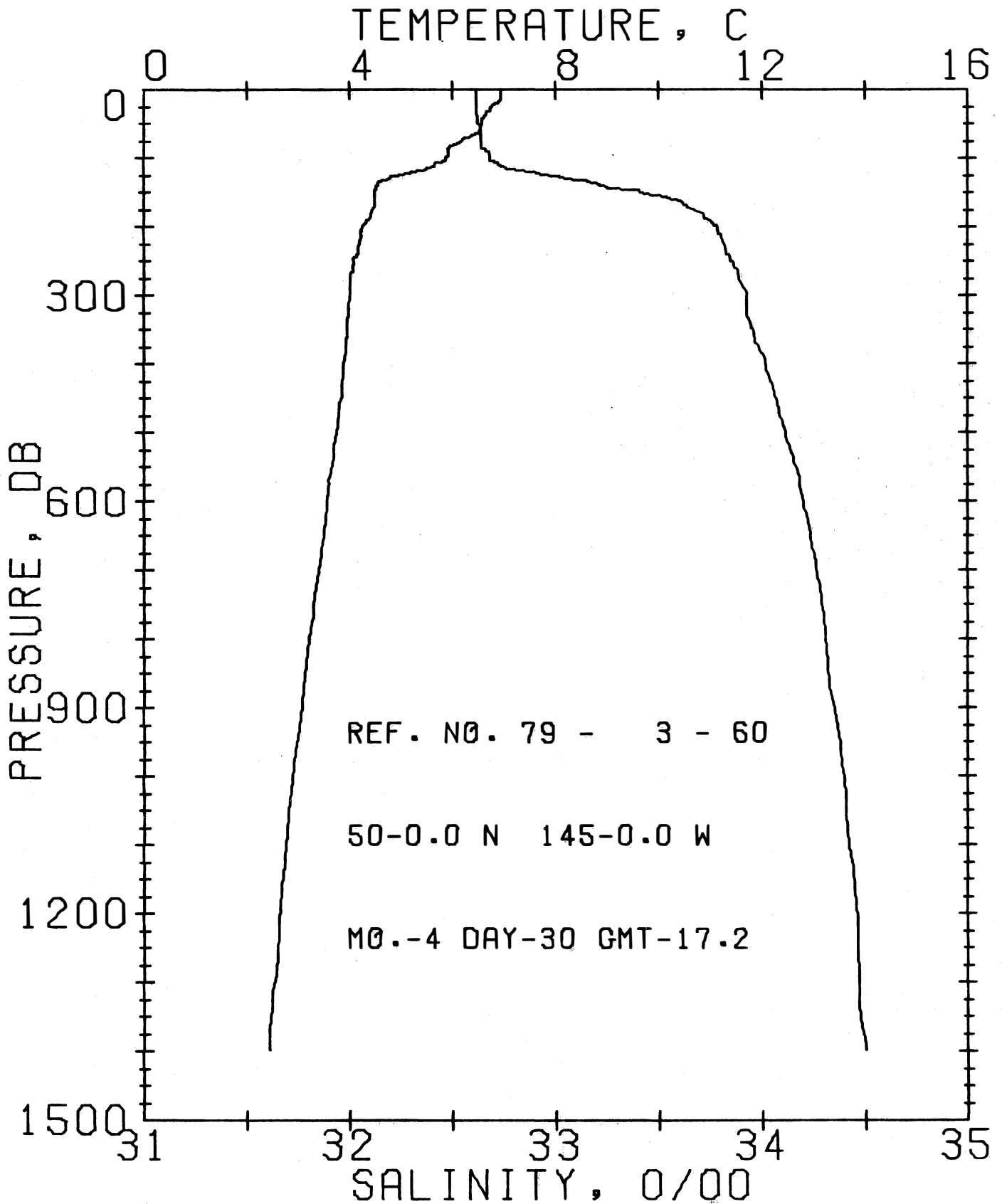
DATE 30/ 4/79

POSITION 50- .0N, 145- .0W GMT 17.2 STATION P

RESULTS OF STP CAST 150 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	6.94	32.61	0	25.57	242.4	.00	.00	1476.
10	6.94	32.61	10	25.57	242.6	.24	.01	1476.
20	6.84	32.61	20	25.58	241.4	.48	.05	1476.
30	6.72	32.61	30	25.60	240.0	.73	.11	1475.
40	6.59	32.62	40	25.62	237.8	.96	.20	1475.
50	6.55	32.62	50	25.63	237.4	1.20	.30	1475.
60	6.51	32.63	60	25.64	236.3	1.44	.44	1475.
70	6.24	32.63	70	25.68	233.1	1.67	.59	1474.
80	6.02	32.63	79	25.70	230.6	1.91	.77	1473.
90	5.93	32.67	89	25.75	226.7	2.13	.97	1473.
100	5.88	32.68	99	25.76	225.5	2.36	1.19	1473.
110	5.63	32.72	109	25.82	220.0	2.58	1.43	1472.
120	5.22	32.86	119	25.98	204.7	2.80	1.68	1471.
130	4.72	33.07	129	26.20	183.5	2.99	1.92	1469.
140	4.51	33.23	139	26.35	169.5	3.17	2.16	1469.
150	4.49	33.41	149	26.50	155.9	3.33	2.40	1469.
160	4.49	33.57	159	26.62	144.4	3.48	2.64	1470.
170	4.47	33.63	169	26.67	139.4	3.62	2.88	1470.
180	4.41	33.69	179	26.73	134.3	3.76	3.12	1470.
190	4.34	33.74	189	26.77	129.9	3.89	3.37	1470.
200	4.24	33.78	199	26.81	126.3	4.02	3.63	1469.
210	4.21	33.79	209	26.83	125.0	4.14	3.89	1470.
220	4.19	33.81	218	26.84	123.6	4.27	4.16	1470.
230	4.16	33.82	228	26.85	122.4	4.39	4.44	1470.
240	4.14	33.83	238	26.86	121.6	4.51	4.73	1470.
250	4.07	33.85	248	26.89	119.4	4.63	5.03	1470.
260	4.07	33.87	258	26.90	118.0	4.75	5.34	1470.
270	4.00	33.88	268	26.92	116.4	4.87	5.66	1470.
280	4.00	33.90	278	26.93	115.4	4.98	5.98	1470.
290	4.00	33.92	288	26.95	114.1	5.10	6.32	1470.
300	3.99	33.93	298	26.96	113.0	5.21	6.66	1470.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 60

DATE 30/ 4/79

POSITION 50- .0N, 145- .0W

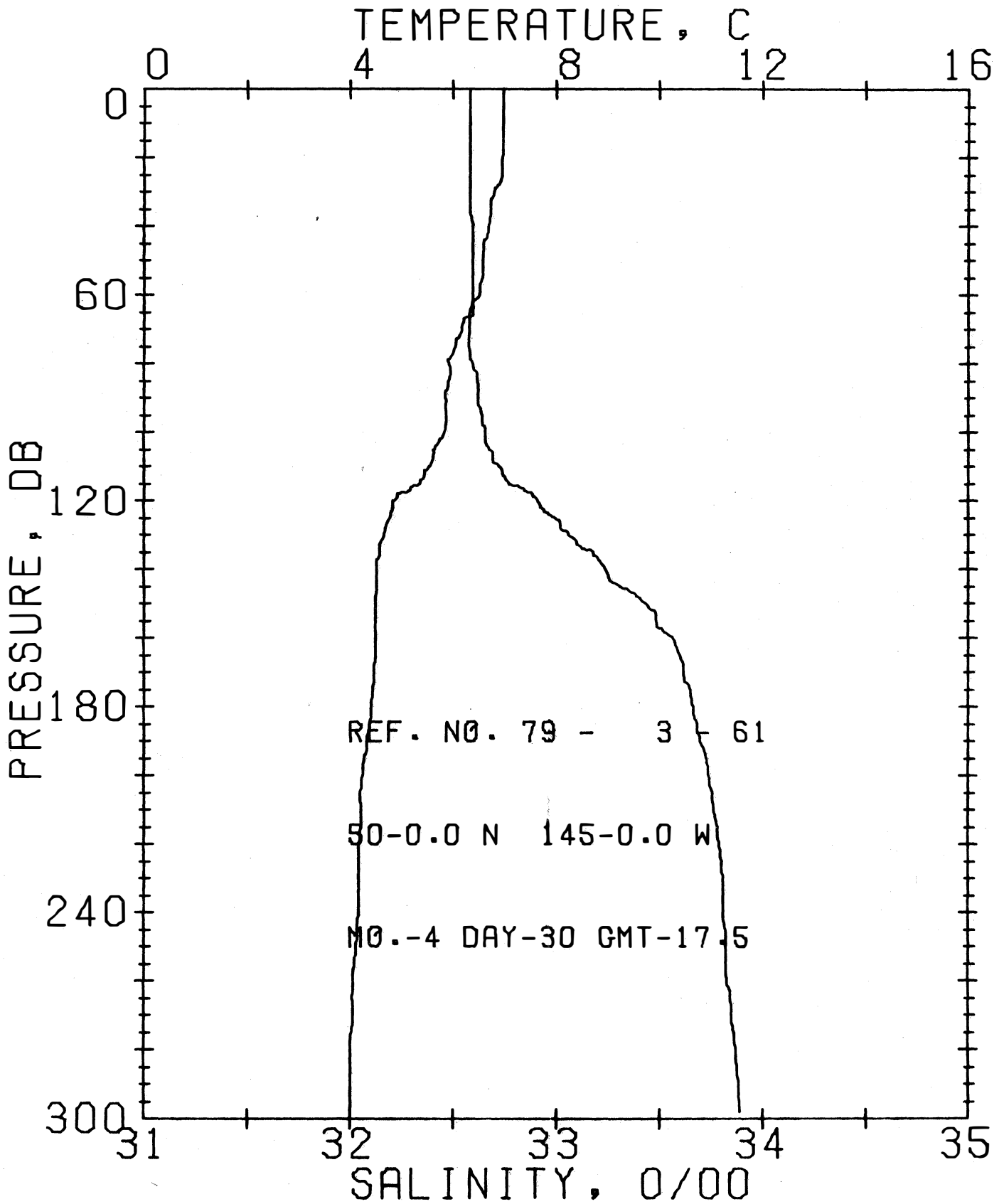
GMT 17.2

STATION P

RESULTS OF STP CAST 235 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	6.94	32.61	0	25.57	242.4	.00	.00	1476.
10	6.94	32.61	10	25.57	242.6	.24	.01	1476.
20	6.84	32.61	20	25.58	241.4	.48	.05	1476.
30	6.72	32.61	30	25.60	240.0	.73	.11	1475.
50	6.55	32.62	50	25.63	237.4	1.20	.30	1475.
75	6.14	32.63	75	25.69	232.0	1.79	.68	1474.
100	5.88	32.68	99	25.76	225.5	2.36	1.19	1473.
125	4.88	32.99	124	26.12	191.3	2.90	1.80	1470.
150	4.49	33.41	149	26.50	155.9	3.33	2.40	1469.
175	4.44	33.66	174	26.70	136.6	3.69	3.00	1470.
200	4.24	33.78	199	26.81	126.3	4.02	3.63	1469.
225	4.18	33.82	223	26.85	122.8	4.33	4.30	1470.
250	4.07	33.85	248	26.89	119.4	4.63	5.03	1470.
300	3.99	33.93	298	26.96	113.0	5.21	6.66	1470.
400	3.88	34.01	397	27.04	106.4	6.32	10.60	1472.
500	3.73	34.11	496	27.13	98.5	7.34	15.29	1473.
600	3.55	34.20	595	27.22	90.8	8.29	20.57	1474.
800	3.21	34.31	793	27.34	80.1	9.99	32.68	1476.
1000	2.88	34.40	990	27.44	71.5	11.51	46.59	1478.
1200	2.63	34.46	1188	27.51	65.5	12.88	61.93	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 61

DATE 30/ 4/79

POSITION 50- .0N, 145- .0W

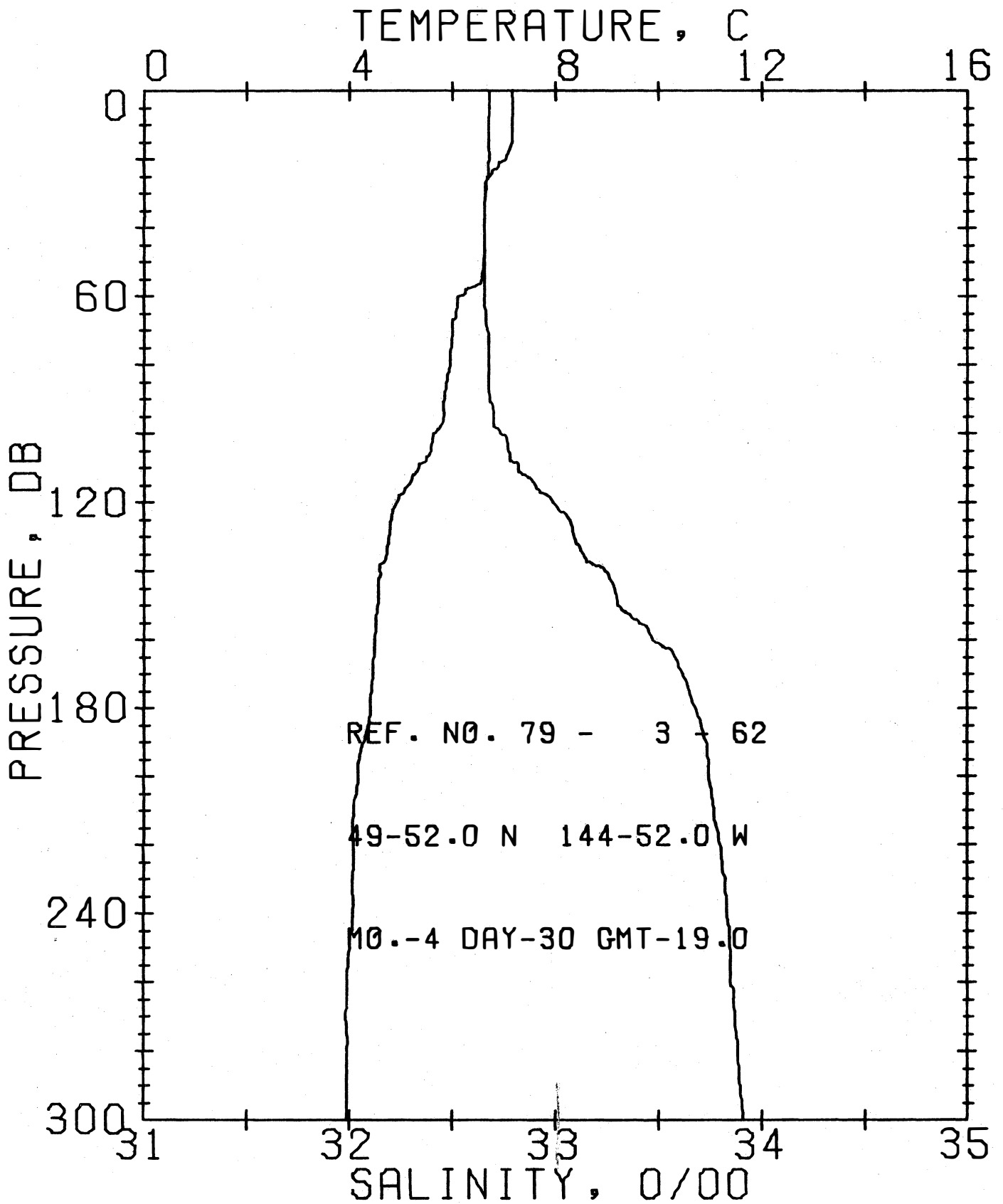
GMT 17.5

STATION P

RESULTS OF STP CAST 158 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	6.95	32.58	0	25.55	244.8	.00	.00	1476.
10	6.95	32.58	10	25.55	244.9	.24	.01	1476.
20	6.94	32.58	20	25.55	244.9	.49	.05	1476.
30	6.78	32.58	30	25.57	243.0	.73	.11	1475.
40	6.68	32.59	40	25.59	241.2	.98	.20	1475.
50	6.56	32.59	50	25.60	239.8	1.22	.31	1475.
60	6.50	32.59	60	25.61	239.2	1.46	.44	1475.
70	6.17	32.58	70	25.65	236.0	1.69	.60	1474.
80	5.93	32.59	79	25.68	232.5	1.93	.78	1473.
90	5.85	32.62	89	25.72	229.5	2.16	.98	1473.
100	5.81	32.65	99	25.75	226.8	2.39	1.20	1473.
110	5.53	32.72	109	25.83	218.5	2.61	1.44	1472.
120	4.84	32.91	119	26.06	196.8	2.82	1.69	1470.
130	4.63	33.06	129	26.20	183.4	3.01	1.93	1469.
140	4.52	33.23	139	26.35	169.6	3.19	2.17	1469.
150	4.49	33.43	149	26.51	154.4	3.35	2.41	1469.
160	4.48	33.56	159	26.62	144.6	3.50	2.65	1470.
170	4.46	33.61	169	26.66	140.8	3.64	2.89	1470.
180	4.41	33.66	179	26.70	136.8	3.78	3.13	1470.
190	4.33	33.69	189	26.73	133.6	3.92	3.39	1470.
200	4.24	33.73	199	26.78	129.4	4.05	3.65	1469.
210	4.21	33.76	209	26.80	127.3	4.17	3.92	1469.
220	4.16	33.79	218	26.83	124.6	4.30	4.19	1469.
230	4.16	33.81	228	26.84	123.4	4.42	4.48	1470.
240	4.16	33.81	238	26.85	123.3	4.55	4.77	1470.
250	4.10	33.82	248	26.86	121.9	4.67	5.08	1470.
260	4.06	33.83	258	26.87	121.1	4.79	5.39	1470.
270	4.06	33.85	268	26.89	119.5	4.91	5.72	1470.
280	4.01	33.87	278	26.91	117.6	5.03	6.05	1470.
290	3.99	33.88	288	26.92	116.8	5.15	6.39	1470.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 62

DATE 30/ 4/79

POSITION 49-52.0N, 144-52.0W

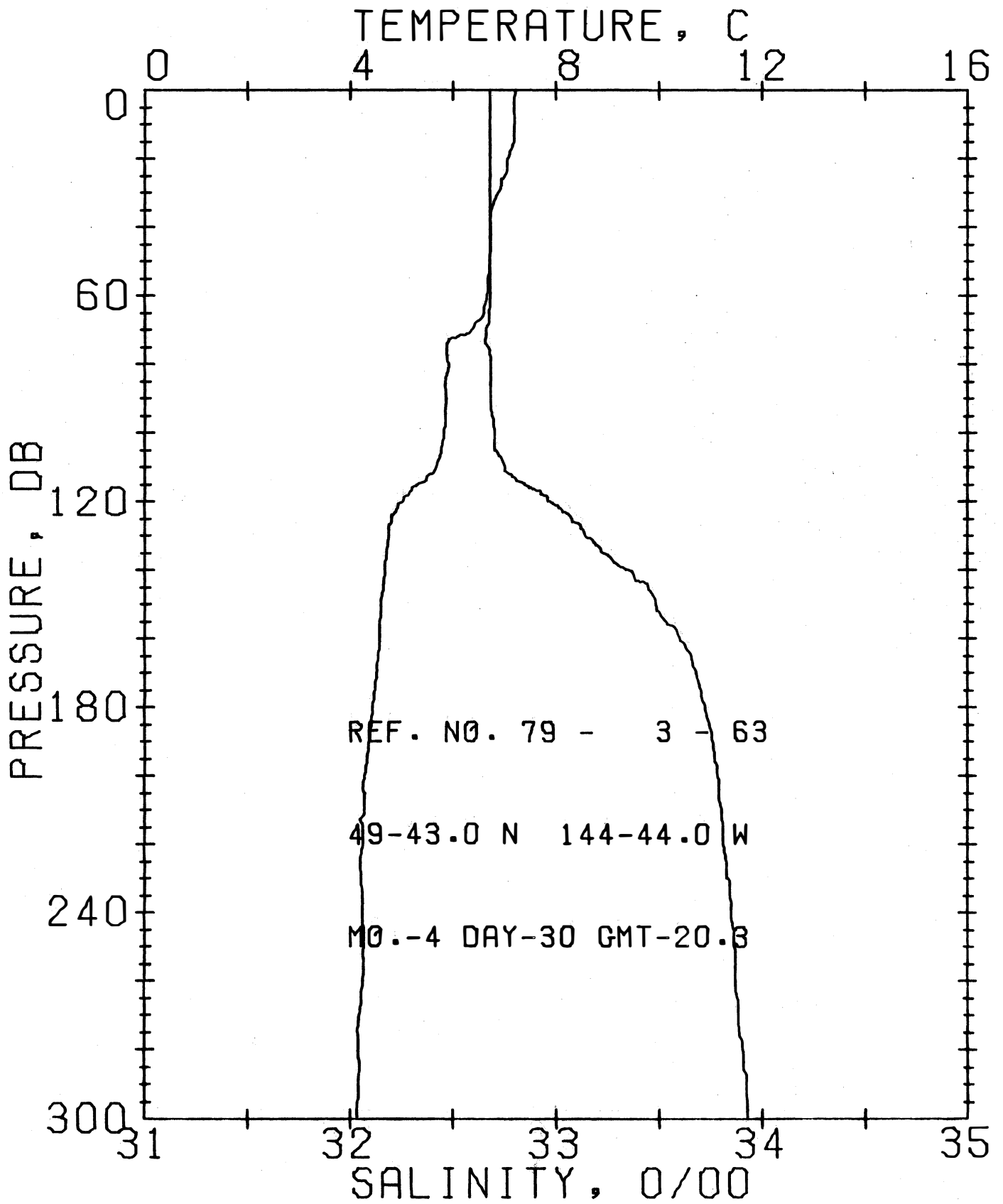
GMT 19.0

STATION E3

RESULTS OF STP CAST 158 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	7.15	32.68	0	25.60	239.9	.00	.00	1477.
10	7.15	32.67	10	25.59	240.8	.24	.01	1477.
20	7.00	32.68	20	25.62	238.2	.48	.05	1476.
30	6.62	32.66	30	25.65	235.1	.72	.11	1475.
40	6.62	32.65	40	25.64	235.9	.95	.19	1475.
50	6.60	32.65	50	25.65	235.7	1.19	.30	1475.
60	6.11	32.65	60	25.71	230.0	1.42	.43	1473.
70	6.00	32.67	70	25.73	227.6	1.65	.58	1473.
80	5.94	32.67	79	25.75	226.7	1.88	.76	1473.
90	5.83	32.68	89	25.77	224.8	2.10	.95	1473.
100	5.64	32.73	99	25.83	218.9	2.33	1.17	1472.
110	5.33	32.82	109	25.94	208.8	2.54	1.40	1471.
120	4.90	32.99	119	26.12	191.4	2.74	1.63	1470.
130	4.76	33.09	129	26.21	182.7	2.93	1.87	1470.
140	4.59	33.24	139	26.35	169.6	3.11	2.11	1469.
150	4.54	33.30	149	26.40	164.6	3.27	2.36	1469.
160	4.49	33.47	159	26.54	151.5	3.43	2.61	1469.
170	4.45	33.61	169	26.66	140.7	3.57	2.85	1470.
180	4.40	33.67	179	26.71	135.4	3.71	3.10	1470.
190	4.27	33.72	189	26.77	130.3	3.84	3.35	1469.
200	4.16	33.74	199	26.79	128.2	3.97	3.60	1469.
210	4.08	33.77	209	26.82	125.4	4.10	3.87	1469.
220	4.07	33.80	218	26.84	123.3	4.22	4.14	1469.
230	4.05	33.82	228	26.87	121.3	4.35	4.42	1469.
240	4.06	33.83	238	26.87	120.8	4.47	4.71	1469.
250	3.99	33.84	248	26.89	119.0	4.59	5.01	1469.
260	3.95	33.85	258	26.90	118.3	4.71	5.32	1469.
270	3.93	33.87	268	26.92	116.6	4.82	5.64	1469.
280	3.95	33.88	278	26.92	116.2	4.94	5.96	1470.
290	3.95	33.89	288	26.93	115.3	5.06	6.30	1470.
300	3.96	33.91	298	26.95	114.2	5.17	6.64	1470.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 63

DATE 30/ 4/79

POSITION 49-43.0N, 144-44.0W

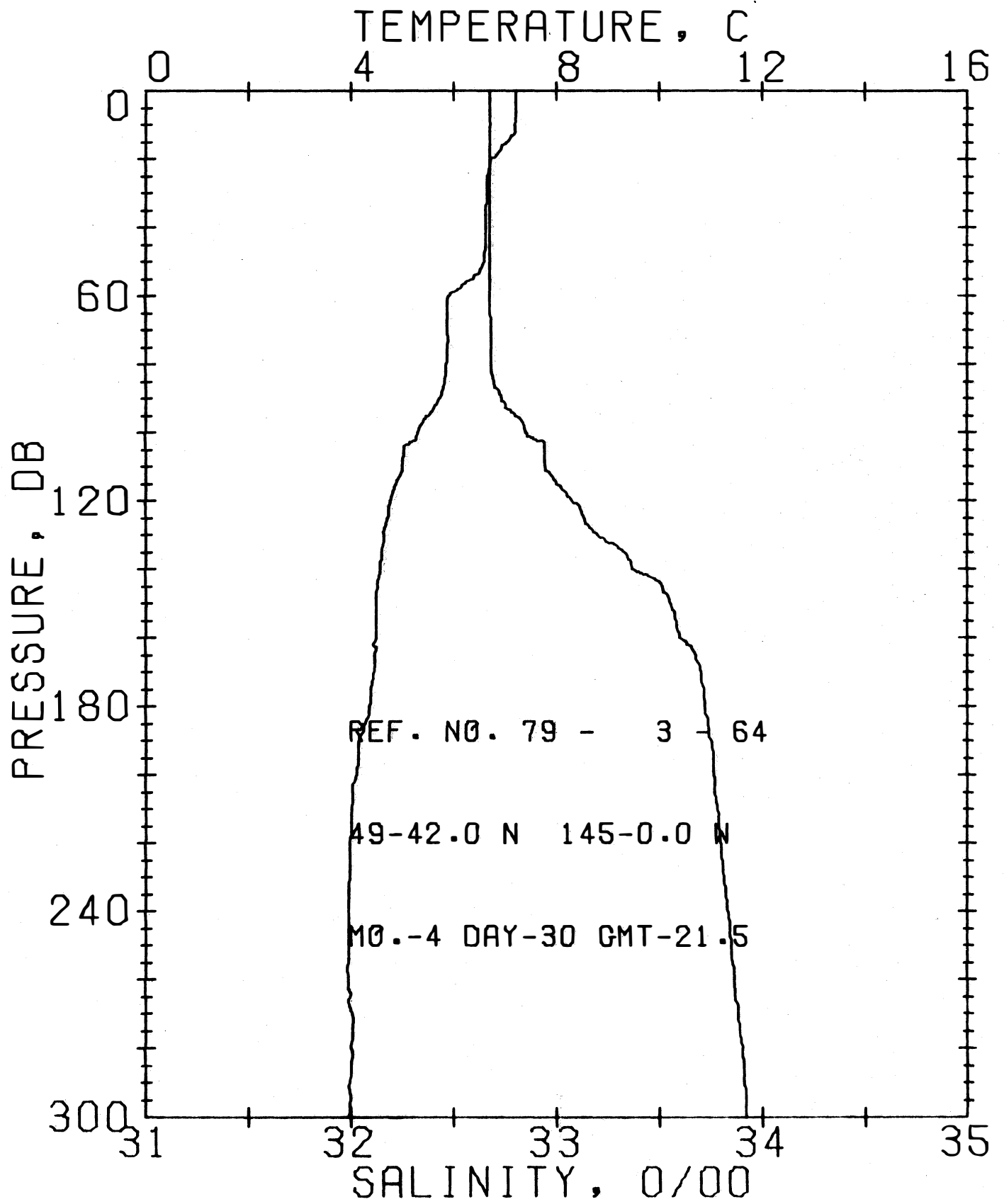
GMT 20.3

STATION E4

RESULTS OF STP CAST 161 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	7.19	32.68	0	25.59	240.4	.00	.00	1477.
10	7.19	32.68	10	25.59	240.5	.24	.01	1477.
20	7.05	32.68	20	25.61	238.9	.48	.05	1477.
30	6.87	32.68	30	25.63	236.7	.72	.11	1476.
40	6.73	32.68	40	25.65	235.1	.95	.19	1476.
50	6.70	32.68	50	25.66	234.8	1.19	.30	1476.
60	6.65	32.68	60	25.66	234.3	1.42	.43	1476.
70	6.34	32.66	70	25.69	232.1	1.66	.59	1474.
80	5.91	32.68	79	25.76	225.6	1.88	.76	1473.
90	5.86	32.68	89	25.76	225.1	2.11	.96	1473.
100	5.82	32.70	99	25.78	223.3	2.33	1.17	1473.
110	5.65	32.74	109	25.84	218.0	2.56	1.41	1472.
120	5.01	32.96	119	26.08	194.9	2.76	1.65	1470.
130	4.74	33.14	129	26.25	178.6	2.95	1.89	1470.
140	4.67	33.34	139	26.42	162.9	3.12	2.12	1470.
150	4.59	33.48	149	26.54	151.4	3.27	2.35	1470.
160	4.55	33.59	159	26.63	143.0	3.42	2.59	1470.
170	4.51	33.67	169	26.70	136.8	3.56	2.82	1470.
180	4.43	33.72	179	26.75	132.3	3.70	3.06	1470.
190	4.36	33.76	189	26.78	129.0	3.83	3.31	1470.
200	4.26	33.78	199	26.81	126.2	3.95	3.56	1470.
210	4.28	33.80	209	26.83	125.0	4.08	3.82	1470.
220	4.24	33.81	218	26.84	123.9	4.20	4.10	1470.
230	4.21	33.83	228	26.86	122.2	4.33	4.38	1470.
240	4.24	33.85	238	26.87	121.1	4.45	4.67	1470.
250	4.26	33.86	248	26.88	120.4	4.57	4.97	1470.
260	4.24	33.87	258	26.89	119.8	4.69	5.28	1471.
270	4.18	33.88	268	26.90	118.5	4.81	5.60	1470.
280	4.17	33.90	278	26.92	116.7	4.93	5.93	1471.
290	4.16	33.92	288	26.93	115.5	5.04	6.27	1471.
300	4.12	33.93	298	26.95	114.4	5.16	6.62	1471.



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REFERENCE NO. 79- 3- 64

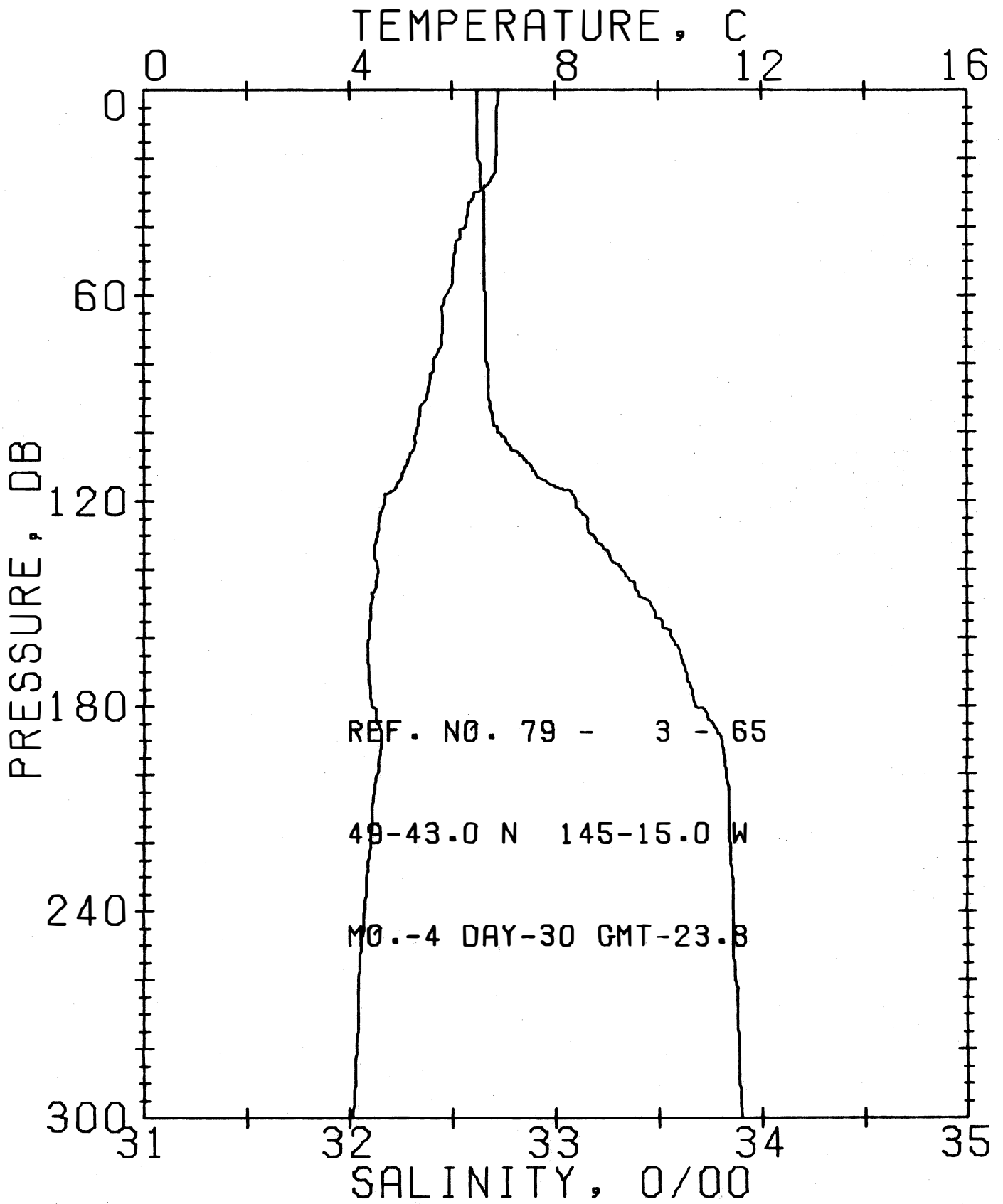
DATE 30/ 4/79

POSITION 49-42.0N, 145- .0W GMT 21.5 STATION C1

RESULTS OF STP CAST 158 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	7.20	32.67	0	25.58	241.3	.00	.00	1477.
10	7.18	32.68	10	25.59	240.4	.24	.01	1477.
20	6.71	32.67	20	25.65	235.3	.48	.05	1475.
30	6.64	32.67	30	25.66	234.6	.72	.11	1475.
40	6.62	32.67	40	25.66	234.4	.95	.19	1475.
50	6.58	32.67	50	25.66	234.1	1.18	.30	1475.
60	5.90	32.67	60	25.75	226.0	1.41	.43	1473.
70	5.87	32.68	70	25.76	225.1	1.64	.58	1473.
80	5.84	32.68	79	25.76	224.8	1.87	.75	1473.
90	5.71	32.73	89	25.82	219.6	2.09	.94	1472.
100	5.28	32.85	99	25.97	205.9	2.30	1.15	1471.
110	4.98	32.95	109	26.08	195.5	2.50	1.36	1470.
120	4.76	33.07	119	26.20	183.9	2.69	1.58	1469.
130	4.63	33.20	129	26.31	172.9	2.87	1.81	1469.
140	4.55	33.37	139	26.46	159.4	3.03	2.04	1469.
150	4.49	33.55	149	26.61	145.4	3.18	2.26	1469.
160	4.48	33.60	159	26.65	141.6	3.33	2.49	1470.
170	4.44	33.69	169	26.73	134.2	3.46	2.72	1470.
180	4.35	33.72	179	26.76	131.5	3.60	2.95	1470.
190	4.16	33.74	189	26.80	127.7	3.73	3.20	1469.
200	4.10	33.76	199	26.81	126.0	3.85	3.45	1469.
210	4.00	33.78	209	26.84	123.3	3.98	3.71	1469.
220	3.98	33.80	218	26.86	122.2	4.10	3.98	1469.
230	3.97	33.81	228	26.87	120.9	4.22	4.26	1469.
240	3.96	33.83	238	26.89	119.5	4.34	4.55	1469.
250	3.94	33.85	248	26.90	118.1	4.46	4.84	1469.
260	3.94	33.86	258	26.91	117.4	4.58	5.15	1469.
270	4.02	33.88	268	26.92	116.8	4.69	5.46	1470.
280	4.01	33.90	278	26.93	115.3	4.81	5.79	1470.
290	3.97	33.91	288	26.95	114.2	4.93	6.12	1470.
300	3.96	33.92	298	26.95	113.5	5.04	6.47	1470.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 65

DATE 30/ 4/79

POSITION 49-43.0N, 145-15.0W

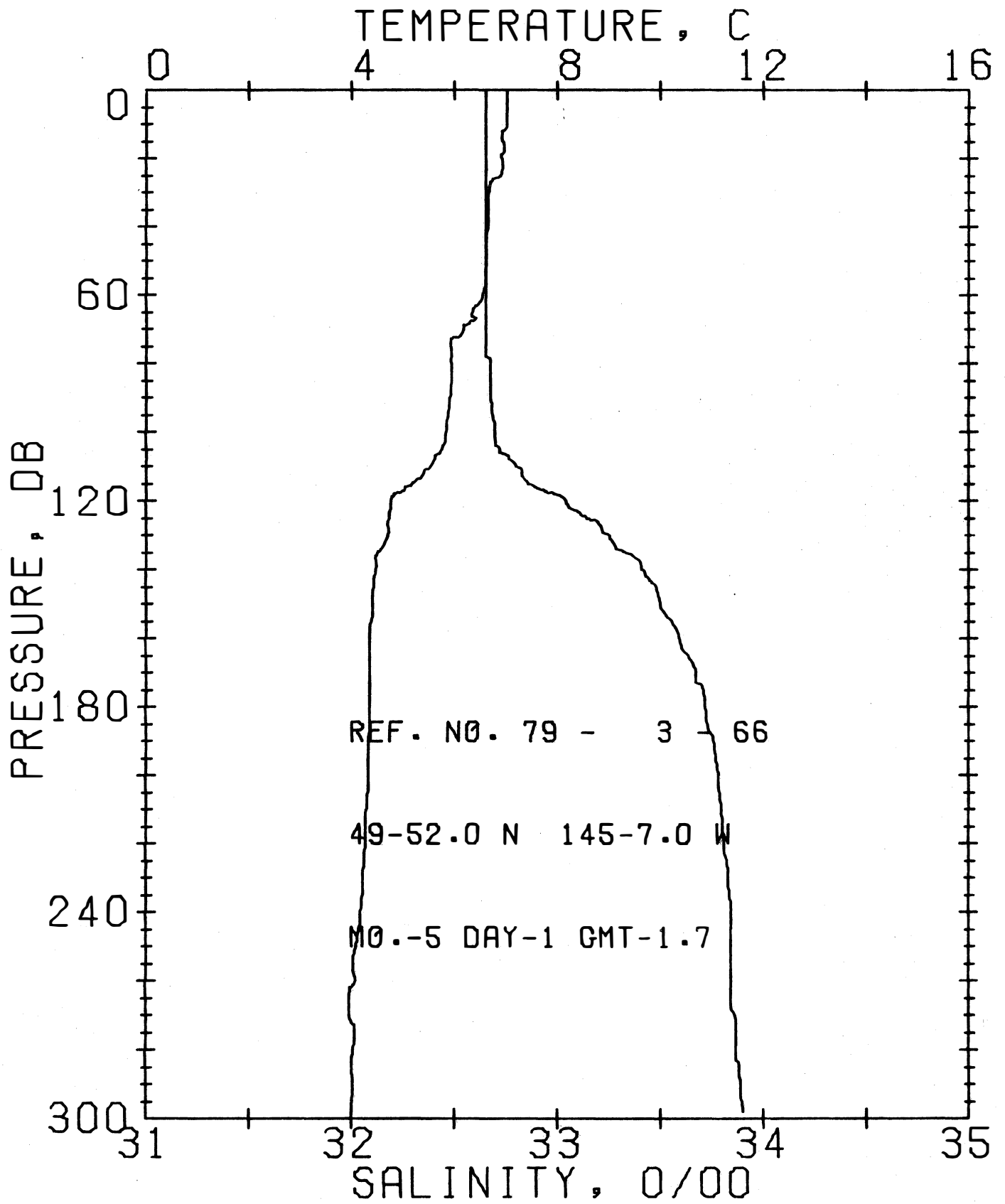
GMT 23.8

STATION W4

RESULTS OF STP CAST 166 POINTS TAKEN FROM ANALOG TRACE

GUIDELINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	6.88	32.62	0	25.59	240.9	.00	.00	1475.
10	6.86	32.62	10	25.59	240.8	.24	.01	1476.
20	6.84	32.62	20	25.59	240.7	.48	.05	1476.
30	6.43	32.65	30	25.67	233.5	.72	.11	1474.
40	6.23	32.65	40	25.69	231.2	.95	.19	1474.
50	6.02	32.65	50	25.72	228.8	1.18	.30	1473.
60	5.88	32.66	60	25.74	226.5	1.41	.43	1472.
70	5.80	32.66	70	25.75	225.7	1.64	.58	1472.
80	5.63	32.66	79	25.78	223.6	1.86	.75	1472.
90	5.50	32.67	89	25.80	221.7	2.08	.94	1471.
100	5.28	32.72	99	25.86	215.6	2.30	1.15	1471.
110	5.06	32.88	109	26.01	201.3	2.51	1.38	1470.
120	4.67	33.10	119	26.23	180.7	2.70	1.60	1469.
130	4.53	33.18	129	26.31	173.4	2.88	1.83	1469.
140	4.55	33.32	139	26.42	163.2	3.05	2.06	1469.
150	4.41	33.46	149	26.54	151.3	3.21	2.29	1469.
160	4.36	33.56	159	26.63	143.3	3.35	2.52	1469.
170	4.37	33.63	169	26.68	138.5	3.49	2.76	1469.
180	4.42	33.67	179	26.71	135.9	3.63	3.00	1470.
190	4.62	33.80	189	26.79	128.0	3.76	3.25	1471.
200	4.54	33.83	199	26.82	125.4	3.89	3.50	1471.
210	4.44	33.84	209	26.84	123.7	4.01	3.76	1471.
220	4.40	33.85	218	26.85	122.9	4.14	4.03	1471.
230	4.34	33.86	228	26.87	121.5	4.26	4.31	1470.
240	4.29	33.86	238	26.87	120.8	4.38	4.60	1470.
250	4.21	33.86	248	26.88	120.2	4.50	4.90	1470.
260	4.17	33.87	258	26.89	119.0	4.62	5.21	1470.
270	4.15	33.88	268	26.90	118.2	4.74	5.53	1470.
280	4.12	33.89	278	26.91	117.3	4.86	5.86	1470.
290	4.09	33.89	288	26.92	116.9	4.97	6.20	1470.
300	4.06	33.90	298	26.93	116.0	5.09	6.55	1471.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 66

DATE 1/ 5/79

POSITION 49-52.0N, 145- 7.0W

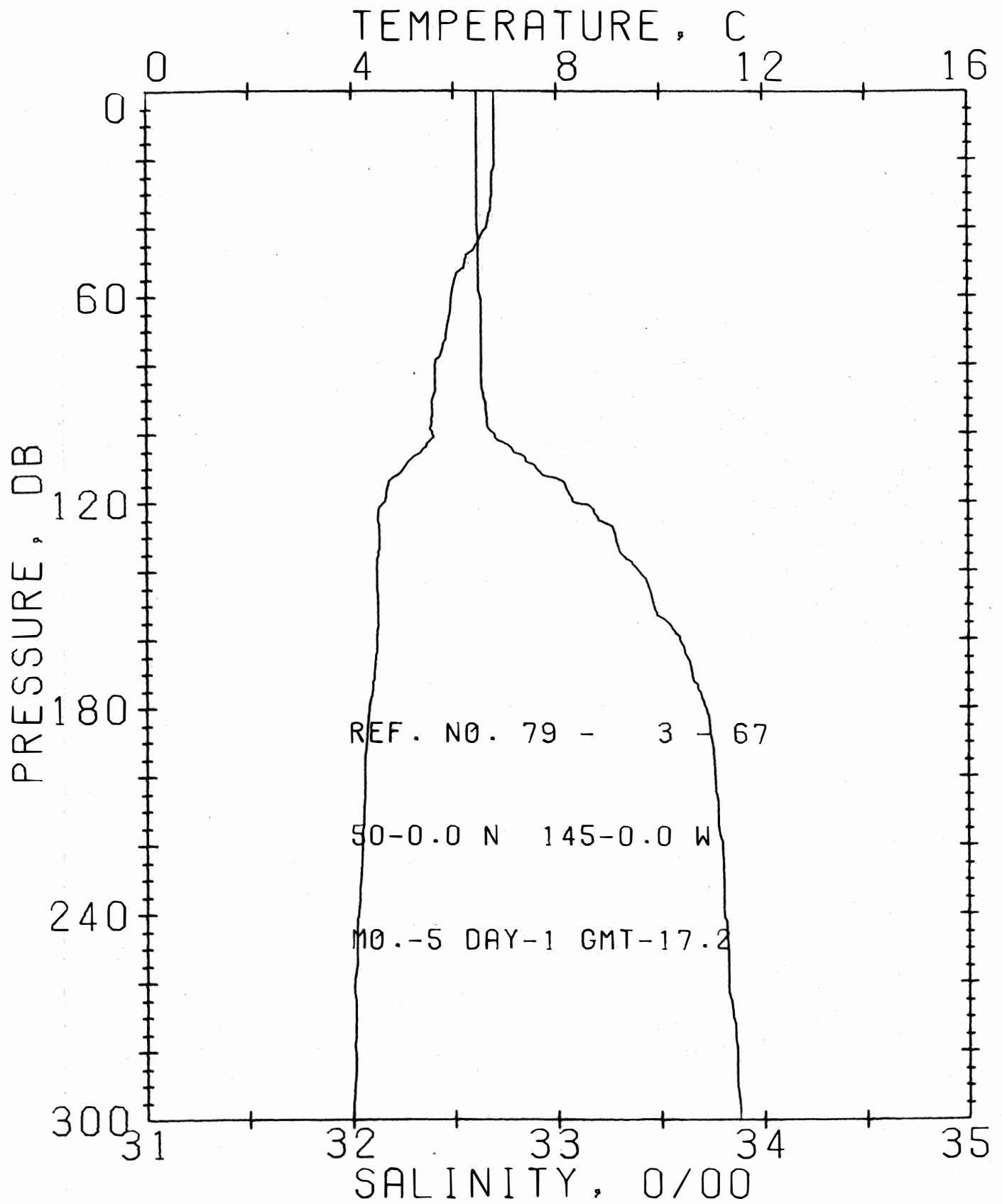
GMT 1.7

STATION W3

RESULTS OF STP CAST 165 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	7.01	32.65	0	25.59	240.3	.00	.00	1476.
10	7.00	32.65	10	25.59	240.4	.24	.01	1476.
20	6.93	32.65	20	25.60	239.6	.48	.05	1476.
30	6.66	32.65	30	25.64	236.2	.72	.11	1475.
40	6.63	32.65	40	25.64	236.0	.95	.19	1475.
50	6.61	32.65	50	25.65	235.9	1.19	.30	1475.
60	6.54	32.65	60	25.65	235.2	1.43	.43	1475.
70	6.16	32.65	70	25.70	230.7	1.66	.59	1474.
80	5.96	32.67	79	25.74	226.9	1.89	.76	1473.
90	5.90	32.67	89	25.75	226.3	2.11	.96	1473.
100	5.83	32.69	99	25.77	224.1	2.34	1.18	1473.
110	5.51	32.80	109	25.90	212.3	2.56	1.41	1472.
120	4.76	33.04	119	26.17	186.2	2.76	1.65	1469.
130	4.70	33.25	129	26.35	169.9	2.94	1.88	1470.
140	4.46	33.41	139	26.50	155.5	3.10	2.10	1469.
150	4.39	33.50	149	26.58	148.1	3.25	2.32	1469.
160	4.34	33.59	159	26.65	141.2	3.40	2.55	1469.
170	4.35	33.67	169	26.72	135.1	3.53	2.78	1469.
180	4.35	33.71	179	26.75	132.0	3.67	3.02	1470.
190	4.33	33.75	189	26.78	128.8	3.80	3.27	1470.
200	4.31	33.78	199	26.81	126.7	3.93	3.52	1470.
210	4.29	33.80	209	26.82	125.4	4.05	3.78	1470.
220	4.26	33.81	218	26.84	124.1	4.18	4.06	1470.
230	4.22	33.83	228	26.86	122.3	4.30	4.34	1470.
240	4.17	33.84	238	26.87	121.1	4.42	4.63	1470.
250	4.07	33.84	248	26.88	120.2	4.54	4.93	1470.
260	4.07	33.84	258	26.88	120.3	4.66	5.25	1470.
270	3.96	33.86	268	26.91	117.7	4.78	5.57	1470.
280	4.03	33.87	278	26.91	117.8	4.90	5.90	1470.
290	4.03	33.89	288	26.92	116.3	5.02	6.24	1470.

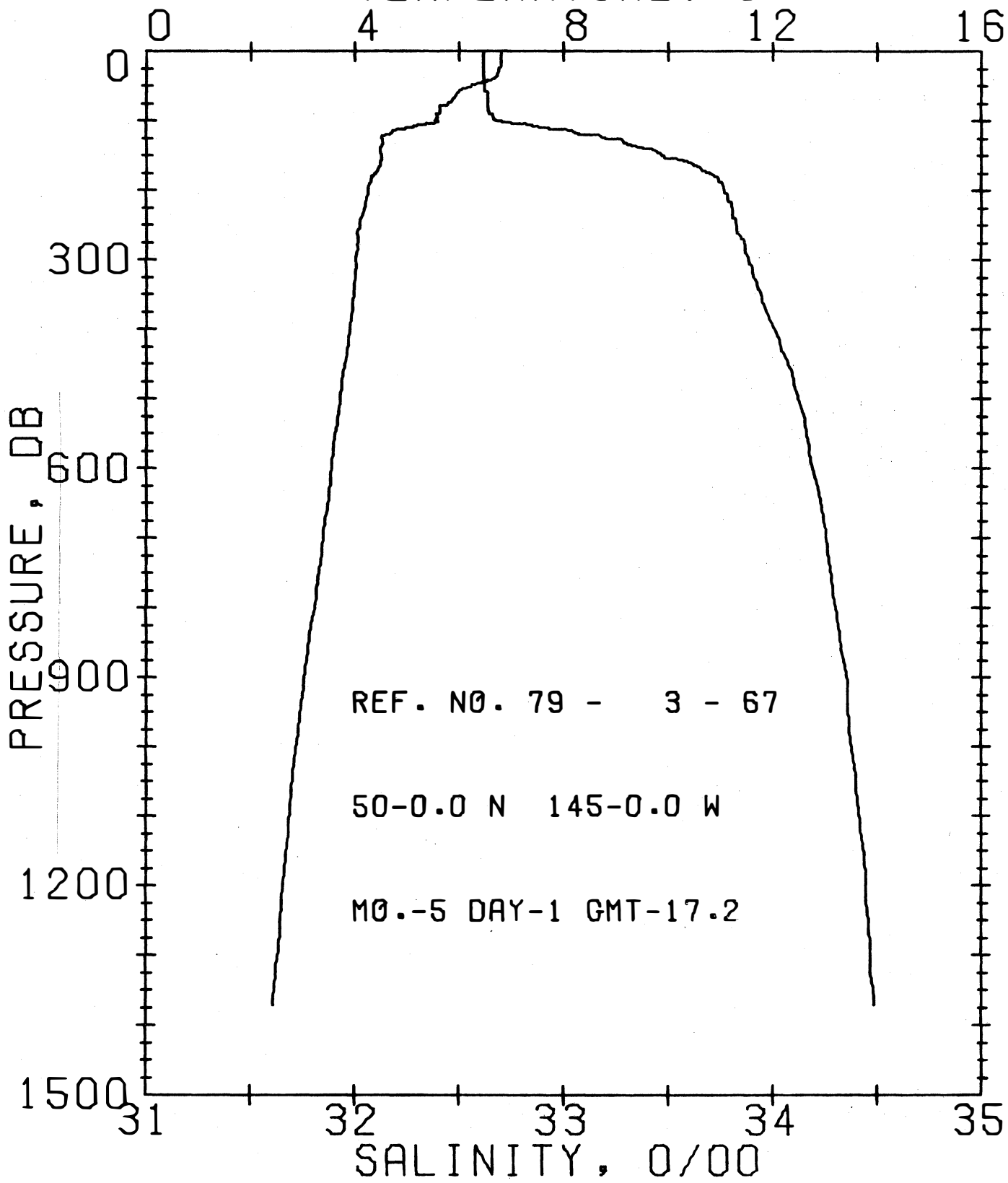


OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 67 DATE 1/ 5/79
 POSITION 50- .0N, 145- .0W GMT 17.2 STATION P
 RESULTS OF STP CAST 156 POINTS TAKEN FROM ANALOG TRACE
 GUIDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	6.81	32.61	0	25.59	240.8	.00	.00	1475.
10	6.80	32.61	10	25.59	240.8	.24	.01	1475.
20	6.80	32.61	20	25.59	240.9	.48	.05	1475.
30	6.74	32.61	30	25.60	240.3	.72	.11	1475.
40	6.63	32.61	40	25.61	239.0	.96	.20	1475.
50	6.21	32.62	50	25.67	233.3	1.20	.30	1474.
60	5.96	32.63	60	25.71	229.9	1.43	.43	1473.
70	5.86	32.63	70	25.72	228.6	1.66	.59	1473.
80	5.63	32.63	79	25.75	226.1	1.89	.76	1472.
90	5.56	32.64	89	25.77	224.3	2.11	.96	1472.
100	5.57	32.69	99	25.81	221.1	2.34	1.17	1472.
110	5.02	32.90	109	26.03	199.4	2.55	1.40	1470.
120	4.63	33.07	119	26.21	182.6	2.73	1.62	1469.
130	4.54	33.28	129	26.39	165.5	2.91	1.83	1469.
140	4.48	33.39	139	26.48	156.8	3.07	2.06	1469.
150	4.50	33.47	149	26.54	151.5	3.22	2.28	1469.
160	4.49	33.59	159	26.64	142.5	3.37	2.52	1470.
170	4.44	33.65	169	26.69	137.6	3.51	2.75	1470.
180	4.33	33.72	179	26.76	131.2	3.64	2.99	1469.
190	4.27	33.75	189	26.79	128.6	3.77	3.24	1469.
200	4.24	33.77	199	26.80	127.0	3.90	3.49	1469.
210	4.22	33.78	209	26.82	125.9	4.03	3.75	1470.
220	4.19	33.80	218	26.84	124.1	4.15	4.03	1470.
230	4.16	33.81	228	26.85	123.2	4.27	4.31	1470.
240	4.11	33.81	238	26.85	122.8	4.40	4.61	1470.
250	4.09	33.83	248	26.87	121.3	4.52	4.91	1470.
260	4.02	33.83	258	26.88	120.5	4.64	5.22	1470.
270	4.06	33.85	268	26.89	119.5	4.76	5.55	1470.
280	4.03	33.87	278	26.91	117.8	4.88	5.88	1470.
290	4.02	33.87	288	26.91	117.7	5.00	6.22	1470.
300	4.01	33.88	298	26.92	117.0	5.11	6.58	1470.

TEMPERATURE, C



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 67

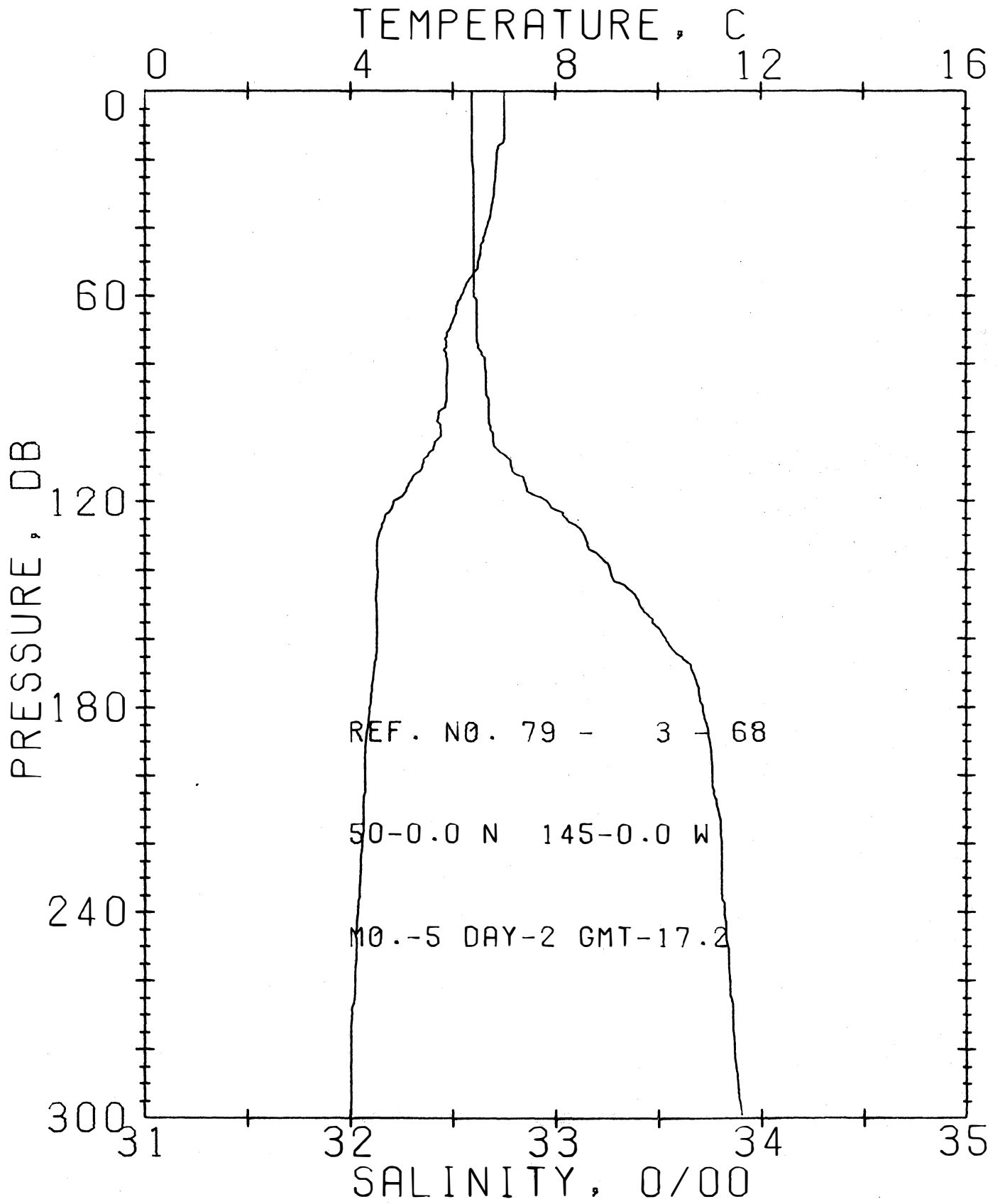
DATE 1/ 5/79

POSITION 50- .0N, 145- .0W GMT 17.2 STATION P

RESULTS OF STP CAST 234 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	6.81	32.61	0	25.59	240.8	.00	.00	1475.
10	6.80	32.61	10	25.59	240.8	.24	.01	1475.
20	6.80	32.61	20	25.59	240.9	.48	.05	1475.
30	6.74	32.61	30	25.60	240.3	.72	.11	1475.
50	6.21	32.62	50	25.67	233.3	1.20	.30	1474.
75	5.77	32.63	75	25.73	227.7	1.77	.67	1472.
100	5.57	32.69	99	25.81	221.1	2.34	1.17	1472.
125	4.50	33.20	124	26.33	171.5	2.82	1.73	1469.
150	4.50	33.47	149	26.54	151.5	3.22	2.28	1469.
175	4.39	33.69	174	26.73	134.1	3.58	2.87	1470.
200	4.24	33.77	199	26.80	127.0	3.90	3.49	1469.
225	4.18	33.80	223	26.84	123.7	4.21	4.17	1470.
250	4.09	33.83	248	26.87	121.3	4.52	4.91	1470.
300	4.01	33.88	298	26.92	117.0	5.11	6.58	1470.
400	3.90	34.00	397	27.03	107.3	6.24	10.58	1472.
500	3.70	34.12	496	27.14	97.4	7.26	15.25	1473.
600	3.55	34.19	595	27.21	91.6	8.20	20.52	1474.
800	3.21	34.30	793	27.33	80.7	9.92	32.74	1476.
1000	2.87	34.38	990	27.43	72.6	11.44	46.69	1478.
1200	2.62	34.45	1188	27.50	65.9	12.82	62.16	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 68

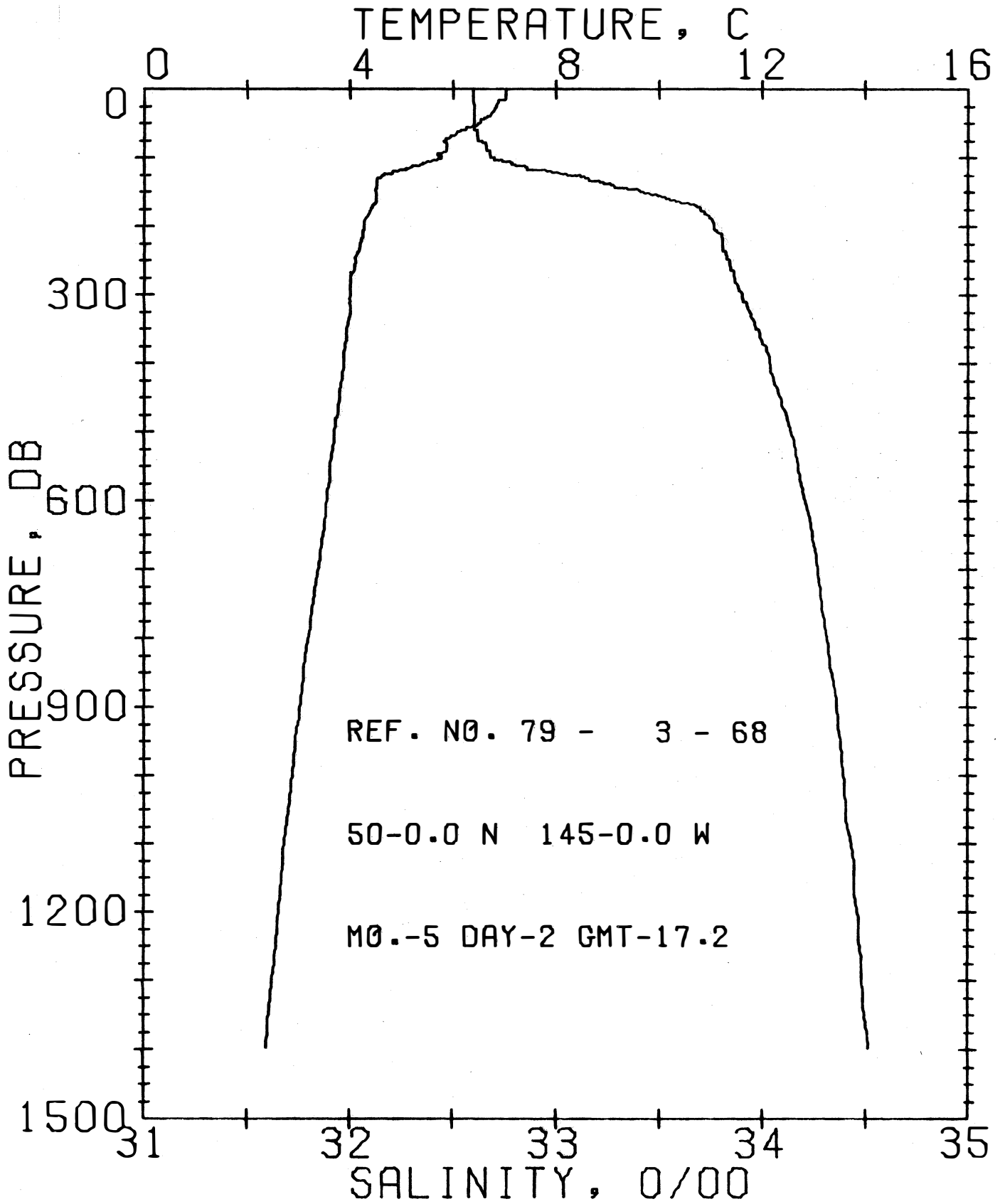
DATE 2/ 5/79

POSITION 50- .0N, 145- .0W GMT 17.2 STATION P

RESULTS OF STP CAST 170 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	7.01	32.59	0	25.55	244.8	.00	.00	1476.
10	7.01	32.59	10	25.55	244.9	.24	.01	1476.
20	6.85	32.59	20	25.57	243.0	.49	.05	1476.
30	6.80	32.60	30	25.58	241.8	.73	.11	1476.
40	6.66	32.60	40	25.60	240.1	.97	.20	1475.
50	6.49	32.60	50	25.62	238.2	1.21	.31	1475.
60	6.16	32.60	60	25.66	234.3	1.45	.44	1474.
70	5.91	32.61	70	25.70	230.7	1.68	.59	1473.
80	5.90	32.65	79	25.73	227.7	1.91	.77	1473.
90	5.86	32.67	89	25.75	225.9	2.14	.96	1473.
100	5.75	32.69	99	25.78	223.2	2.36	1.18	1473.
110	5.39	32.78	109	25.90	212.1	2.58	1.42	1471.
120	4.84	32.96	119	26.10	193.0	2.78	1.66	1470.
130	4.54	33.14	129	26.28	176.5	2.97	1.89	1469.
140	4.52	33.26	139	26.38	167.0	3.14	2.13	1469.
150	4.50	33.41	149	26.49	156.0	3.30	2.37	1469.
160	4.51	33.53	159	26.59	147.2	3.45	2.60	1470.
170	4.44	33.66	169	26.70	136.5	3.59	2.84	1470.
180	4.36	33.71	179	26.75	132.3	3.73	3.08	1470.
190	4.29	33.74	189	26.78	129.0	3.86	3.33	1469.
200	4.27	33.76	199	26.80	127.8	3.99	3.58	1470.
210	4.25	33.79	209	26.82	125.6	4.11	3.85	1470.
220	4.22	33.81	218	26.84	123.7	4.24	4.12	1470.
230	4.18	33.81	228	26.85	123.3	4.36	4.40	1470.
240	4.12	33.82	238	26.86	122.1	4.48	4.70	1470.
250	4.11	33.84	248	26.87	120.8	4.61	5.00	1470.
260	4.08	33.85	258	26.89	119.6	4.73	5.31	1470.
270	4.02	33.86	268	26.90	118.3	4.85	5.64	1470.
280	4.00	33.87	278	26.91	117.5	4.96	5.97	1470.
290	4.01	33.88	288	26.92	116.6	5.08	6.31	1470.
300	3.99	33.90	298	26.94	115.2	5.20	6.65	1470.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 68

DATE 2/ 5/79

POSITION 50- .0N, 145- .0W

GMT 17.2

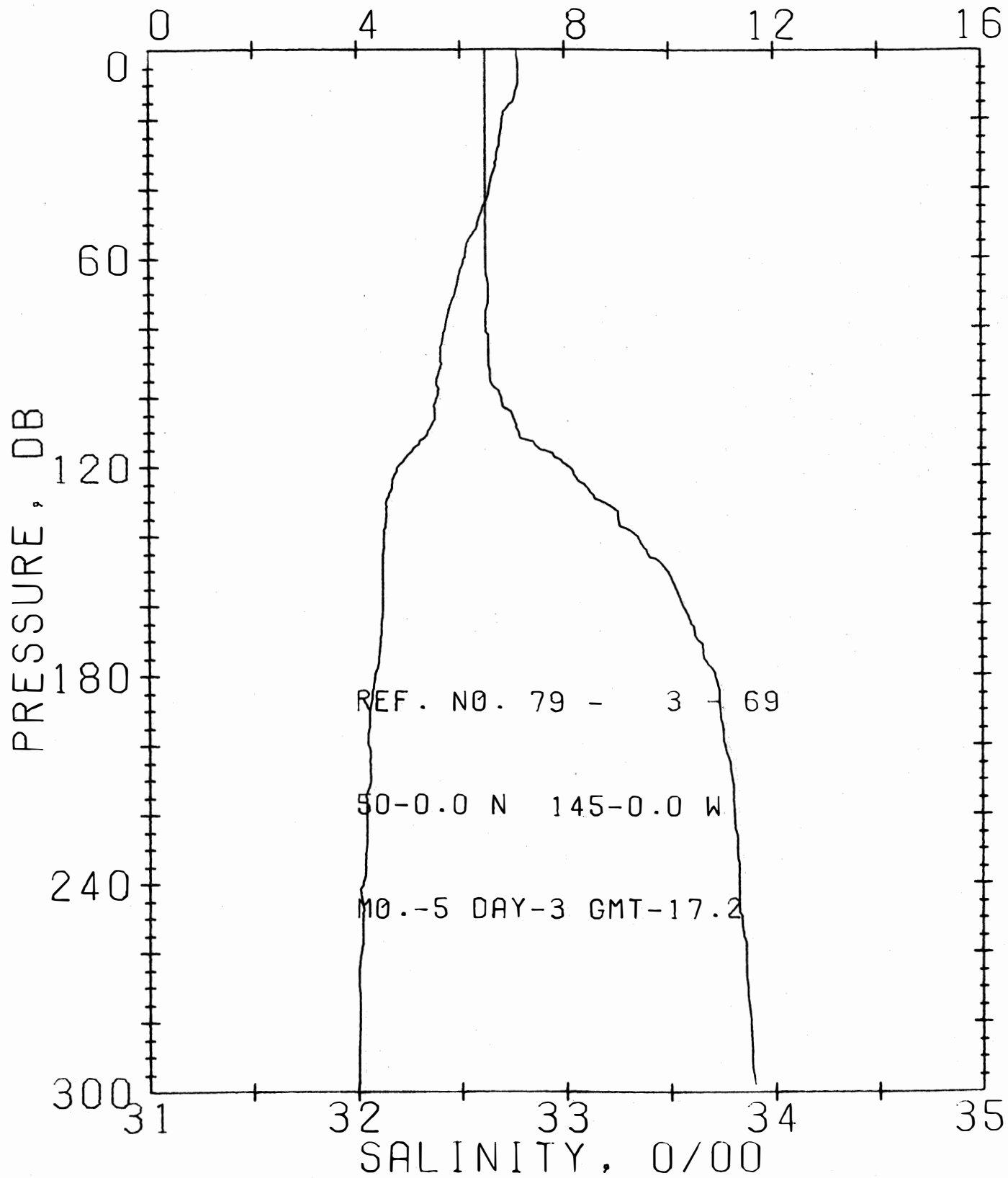
STATION P

RESULTS OF STP CAST 255 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	7.01	32.59	0	25.55	244.8	.00	.00	1476.
10	7.01	32.59	10	25.55	244.9	.24	.01	1476.
20	6.85	32.59	20	25.57	243.0	.49	.05	1476.
30	6.80	32.60	30	25.58	241.8	.73	.11	1476.
50	6.49	32.60	50	25.62	238.2	1.21	.31	1475.
75	5.86	32.62	75	25.72	229.4	1.79	.68	1473.
100	5.75	32.69	99	25.78	223.2	2.36	1.18	1473.
125	4.64	33.05	124	26.19	184.2	2.88	1.77	1469.
150	4.50	33.41	149	26.49	156.0	3.30	2.37	1469.
175	4.40	33.69	174	26.73	134.2	3.66	2.96	1470.
200	4.27	33.76	199	26.80	127.8	3.99	3.58	1470.
225	4.20	33.81	223	26.84	123.5	4.30	4.26	1470.
250	4.11	33.84	248	26.87	120.8	4.61	5.00	1470.
300	3.99	33.90	298	26.94	115.2	5.20	6.65	1470.
400	3.87	34.03	397	27.06	104.7	6.29	10.56	1472.
500	3.70	34.14	496	27.15	96.1	7.30	15.17	1473.
600	3.55	34.20	595	27.22	90.4	8.23	20.38	1474.
800	3.18	34.31	793	27.34	79.7	9.93	32.44	1476.
1000	2.88	34.40	990	27.44	71.5	11.43	46.22	1478.
1200	2.60	34.46	1188	27.51	64.7	12.79	61.46	1480.

TEMPERATURE, C



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 69

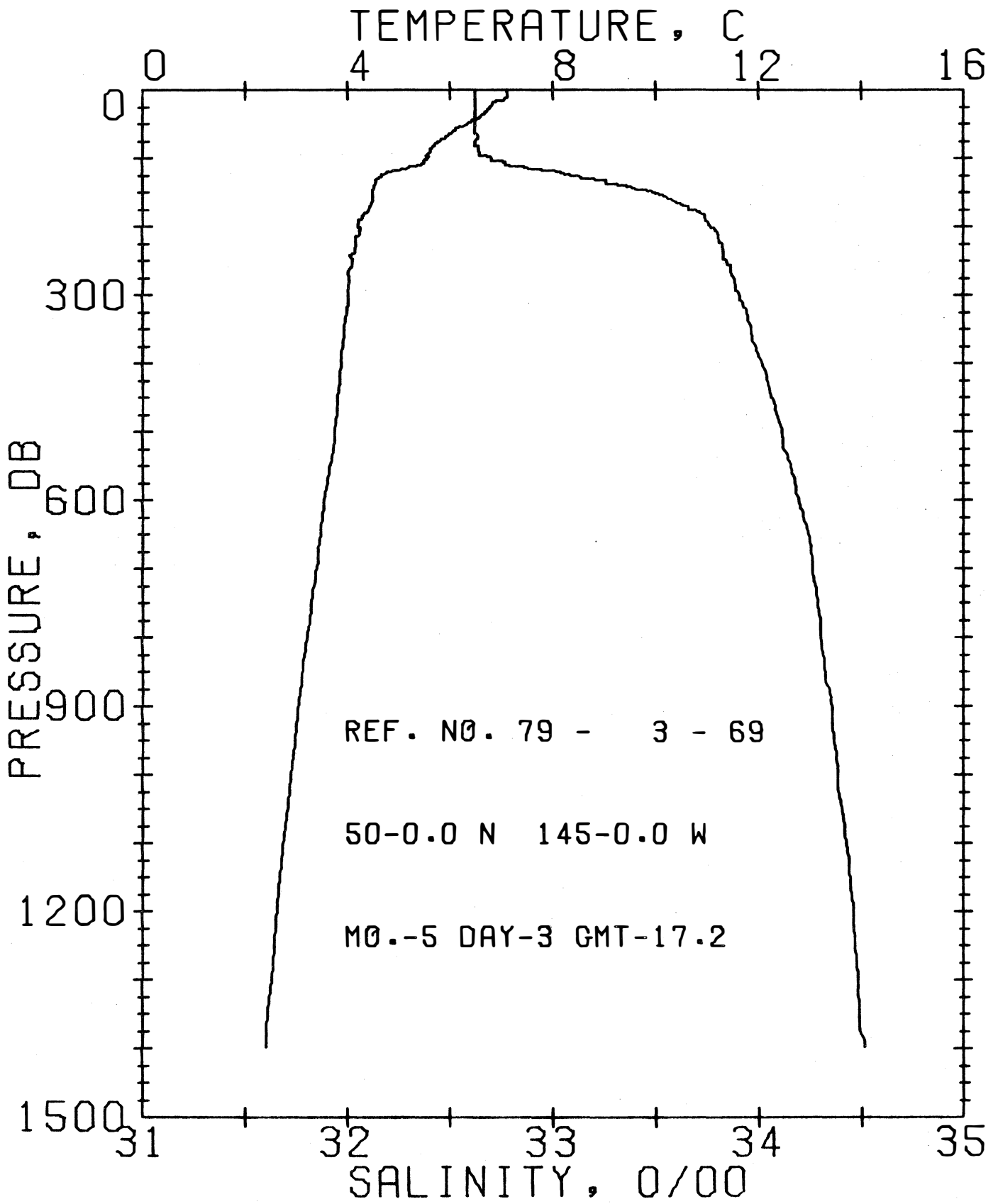
DATE 3/ 5/79

POSITION 50- .0N, 145- .0W GMT 17.2 STATION P

RESULTS OF STP CAST 168 POINTS TAKEN FROM ANALOG TRACE

GUIDELINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	7.09	32.62	0	25.56	243.6	.00	.00	1476.
10	7.11	32.62	10	25.56	244.0	.24	.01	1477.
20	6.81	32.62	20	25.60	240.3	.49	.05	1475.
30	6.70	32.62	30	25.61	239.0	.73	.11	1475.
40	6.56	32.62	40	25.63	237.4	.96	.20	1475.
50	6.33	32.62	50	25.66	234.7	1.20	.30	1474.
60	6.09	32.62	60	25.69	232.0	1.43	.43	1473.
70	5.88	32.63	70	25.72	228.9	1.66	.59	1473.
80	5.70	32.62	79	25.73	227.6	1.89	.76	1472.
90	5.60	32.63	89	25.75	225.8	2.12	.96	1472.
100	5.55	32.69	99	25.81	220.9	2.34	1.17	1472.
110	5.36	32.78	109	25.90	212.1	2.56	1.41	1471.
120	4.81	33.02	119	26.15	188.2	2.76	1.64	1470.
130	4.57	33.17	129	26.30	174.5	2.94	1.87	1469.
140	4.52	33.35	139	26.44	160.6	3.11	2.10	1469.
150	4.48	33.49	149	26.56	149.8	3.27	2.33	1469.
160	4.47	33.56	159	26.62	144.5	3.41	2.57	1469.
170	4.44	33.63	169	26.67	139.1	3.55	2.80	1470.
180	4.33	33.71	179	26.75	132.0	3.69	3.05	1469.
190	4.23	33.74	189	26.78	129.0	3.82	3.29	1469.
200	4.20	33.76	199	26.80	127.1	3.95	3.55	1469.
210	4.23	33.80	209	26.83	124.7	4.07	3.81	1470.
220	4.16	33.81	218	26.84	123.3	4.20	4.08	1470.
230	4.15	33.82	228	26.86	122.3	4.32	4.36	1470.
240	4.08	33.83	238	26.87	120.9	4.44	4.65	1470.
250	4.09	33.84	248	26.88	120.4	4.56	4.96	1470.
260	4.05	33.86	258	26.90	118.5	4.68	5.27	1470.
270	4.00	33.87	268	26.91	117.4	4.80	5.59	1470.
280	4.02	33.88	278	26.92	116.9	4.92	5.91	1470.
290	4.01	33.89	288	26.93	116.1	5.03	6.25	1470.
300	4.01	33.90	298	26.94	115.1	5.15	6.60	1470.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 69

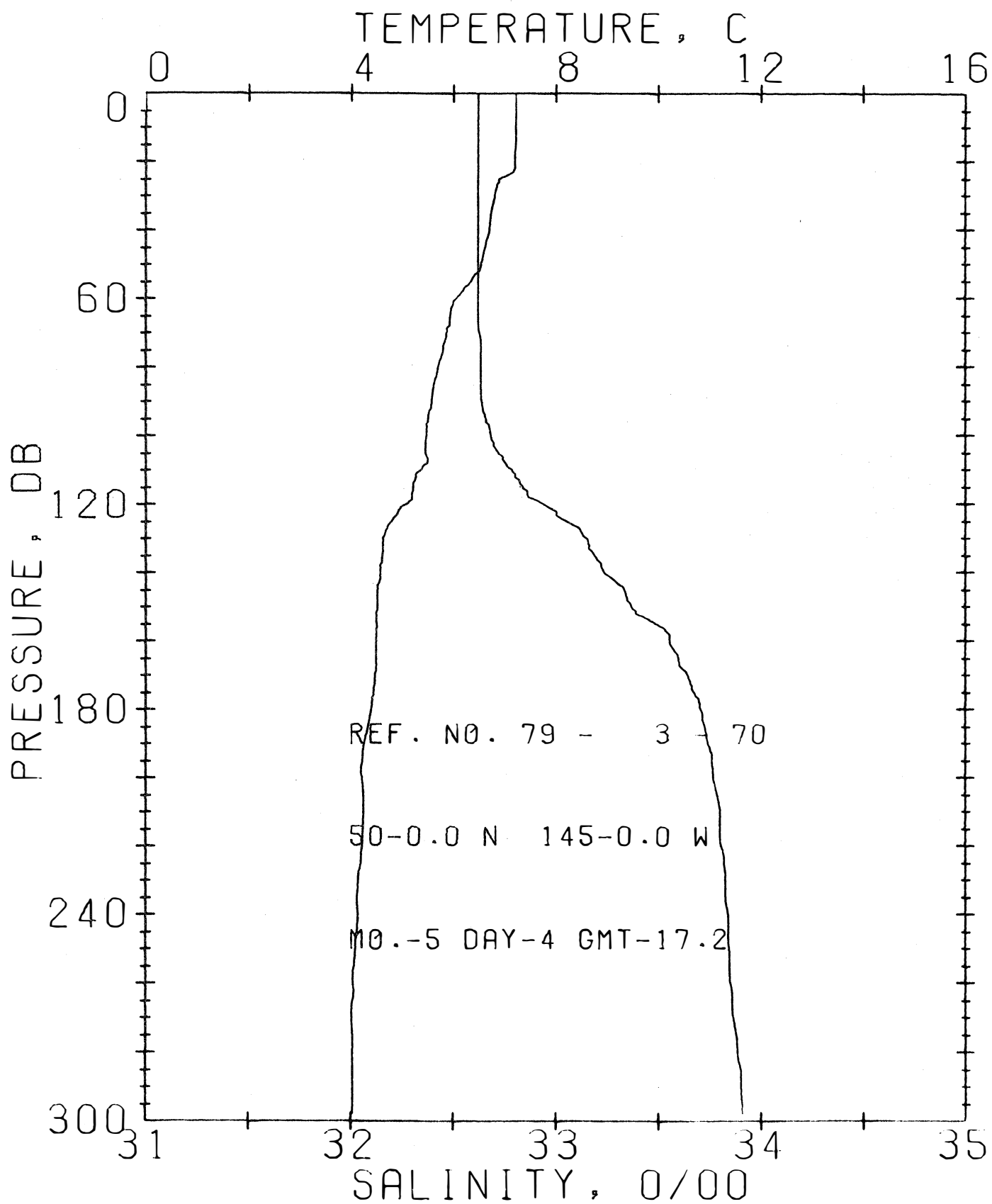
DATE 3/ 5/79

POSITION 50- .0N, 145- .0W GMT 17.2 STATION P

RESULTS OF STP CAST 266 POINTS TAKEN FROM ANALOG TRACE

GUIDELINE WAS USED. PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	7.09	32.62	0	25.56	243.6	.00	.00	1476.
10	7.11	32.62	10	25.56	244.0	.24	.01	1477.
20	6.81	32.62	20	25.60	240.3	.49	.05	1475.
30	6.70	32.62	30	25.61	239.0	.73	.11	1475.
50	6.33	32.62	50	25.66	234.7	1.20	.30	1474.
75	5.77	32.62	75	25.73	228.4	1.78	.67	1472.
100	5.55	32.69	99	25.81	220.9	2.34	1.17	1472.
125	4.67	33.09	124	26.22	181.5	2.85	1.76	1469.
150	4.48	33.49	149	26.56	149.8	3.27	2.33	1469.
175	4.41	33.66	174	26.70	136.5	3.62	2.93	1470.
200	4.20	33.76	199	26.80	127.1	3.95	3.55	1469.
225	4.16	33.82	223	26.85	122.8	4.26	4.22	1470.
250	4.09	33.84	248	26.88	120.4	4.56	4.96	1470.
300	4.01	33.90	298	26.94	115.1	5.15	6.60	1470.
400	3.86	34.01	397	27.04	106.3	6.26	10.54	1471.
500	3.73	34.11	496	27.13	98.5	7.28	15.22	1473.
600	3.53	34.19	595	27.21	91.1	8.23	20.54	1474.
800	3.19	34.30	793	27.33	80.6	9.93	32.63	1476.
1000	2.88	34.39	990	27.43	72.0	11.45	46.54	1478.
1200	2.61	34.46	1188	27.51	65.1	12.82	61.87	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 70

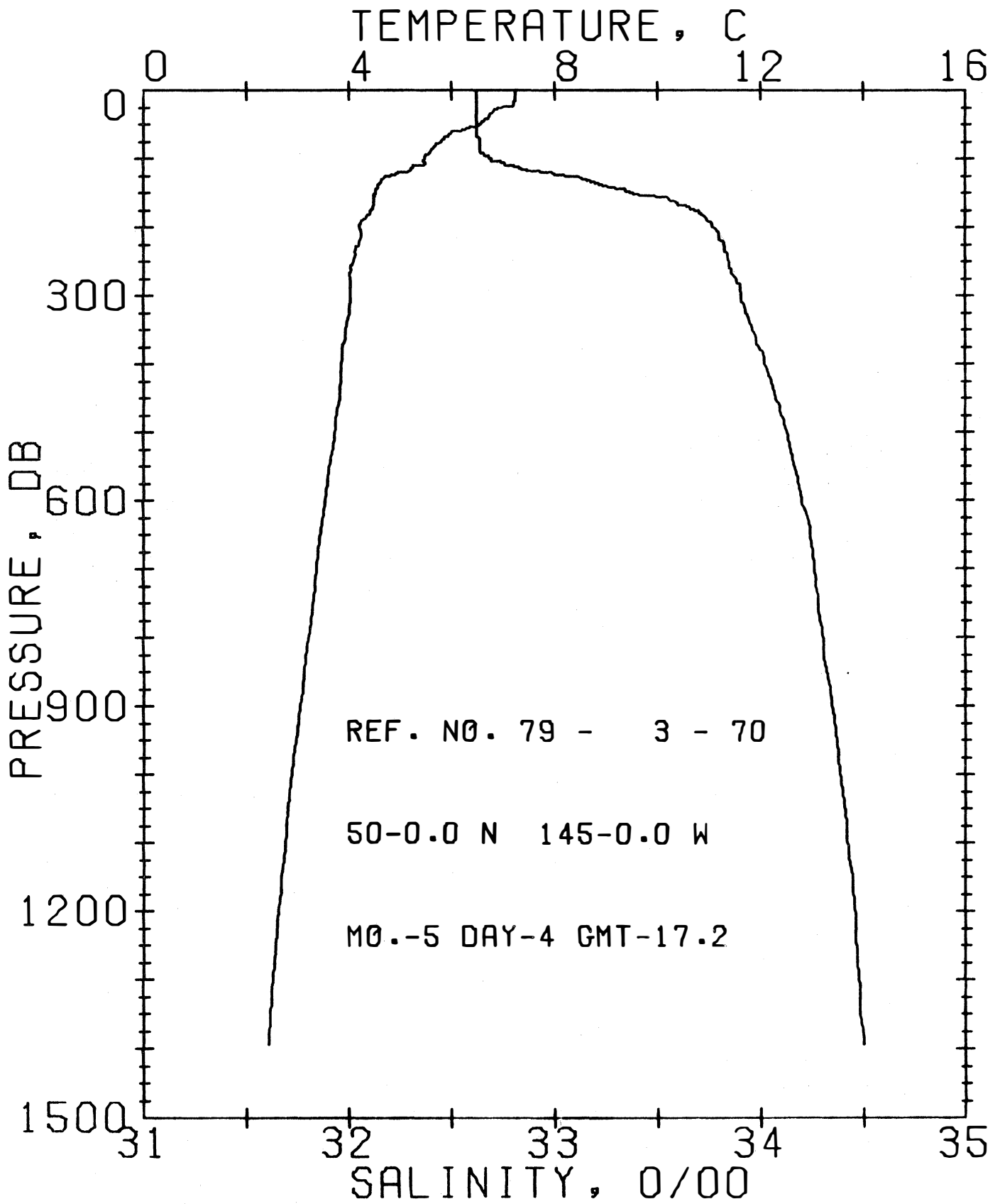
DATE 4/ 5/79

POSITION 50- .0N, 145- .0W GMT 17.2 STATION P

RESULTS OF STP CAST 154 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	7.22	32.62	0	25.54	245.3	.00	.00	1477.
10	7.22	32.62	10	25.54	245.4	.25	.01	1477.
20	7.20	32.62	20	25.54	245.3	.49	.05	1477.
30	6.81	32.62	30	25.60	240.4	.73	.11	1476.
40	6.71	32.62	40	25.61	239.2	.97	.20	1475.
50	6.54	32.62	50	25.63	237.3	1.21	.31	1475.
60	6.04	32.62	60	25.69	231.4	1.45	.44	1473.
70	5.87	32.62	70	25.72	229.2	1.68	.59	1473.
80	5.69	32.63	79	25.74	226.8	1.90	.76	1472.
90	5.56	32.63	89	25.76	225.1	2.13	.96	1472.
100	5.46	32.68	99	25.81	220.6	2.35	1.18	1471.
110	5.36	32.79	109	25.91	211.4	2.57	1.41	1471.
120	5.08	32.94	119	26.06	197.1	2.78	1.65	1471.
130	4.62	33.15	129	26.28	176.5	2.96	1.89	1469.
140	4.56	33.23	139	26.35	170.0	3.14	2.12	1469.
150	4.50	33.37	149	26.46	159.0	3.30	2.37	1469.
160	4.48	33.55	159	26.61	145.4	3.45	2.60	1470.
170	4.45	33.64	169	26.68	138.4	3.59	2.84	1470.
180	4.38	33.70	179	26.74	132.9	3.73	3.09	1470.
190	4.24	33.74	189	26.78	128.9	3.86	3.33	1469.
200	4.21	33.77	199	26.81	126.4	3.99	3.58	1469.
210	4.23	33.80	209	26.83	124.5	4.11	3.85	1470.
220	4.21	33.80	218	26.84	124.0	4.23	4.12	1470.
230	4.13	33.83	228	26.87	121.4	4.36	4.40	1470.
240	4.12	33.84	238	26.87	120.6	4.48	4.69	1470.
250	4.08	33.85	248	26.88	119.7	4.60	4.99	1470.
260	4.02	33.85	258	26.89	118.9	4.72	5.30	1470.
270	4.00	33.86	268	26.91	117.9	4.84	5.62	1470.
280	4.02	33.89	278	26.92	116.5	4.95	5.95	1470.
290	4.03	33.90	288	26.93	115.6	5.07	6.29	1470.
300	4.02	33.91	298	26.94	114.8	5.18	6.63	1470.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 70

DATE 4/ 5/79

POSITION 50- 30N, 145- 00W

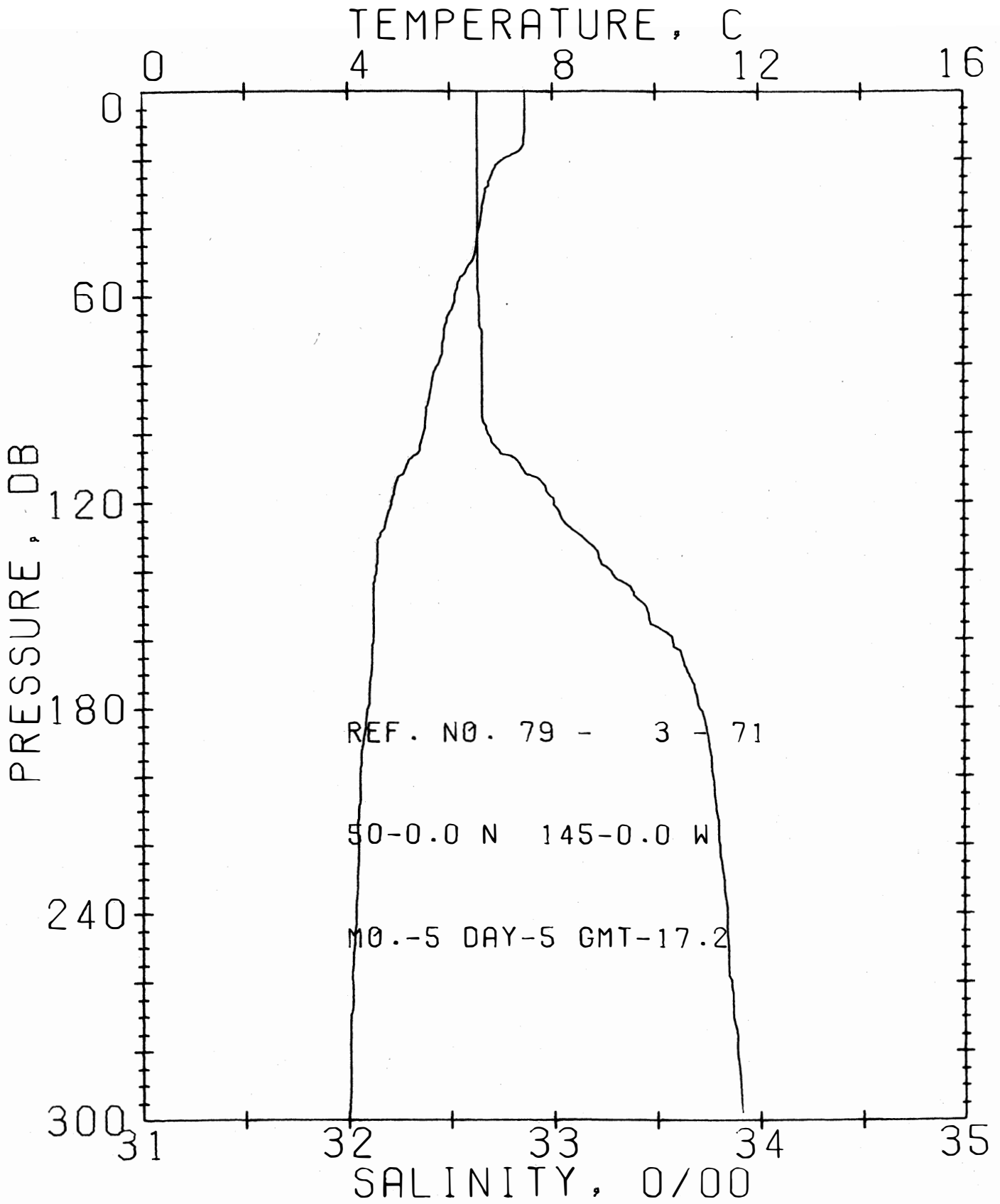
GMT 17.2

STATION P

RESULTS OF STP CAST 227 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	7.22	32.62	0	25.54	245.3	.00	.00	1477.
10	7.22	32.62	10	25.54	245.4	.25	.01	1477.
20	7.20	32.62	20	25.54	245.3	.49	.05	1477.
30	6.81	32.62	30	25.60	240.4	.73	.11	1476.
50	6.54	32.62	50	25.63	237.3	1.21	.31	1475.
75	5.79	32.63	75	25.73	227.8	1.79	.68	1472.
100	5.46	32.68	99	25.81	220.6	2.35	1.18	1471.
125	4.78	33.05	124	26.18	185.7	2.87	1.77	1470.
150	4.50	33.37	149	26.46	159.0	3.30	2.37	1469.
175	4.43	33.67	174	26.71	136.0	3.66	2.96	1470.
200	4.21	33.77	199	26.81	126.4	3.99	3.58	1469.
225	4.18	33.82	223	26.85	122.6	4.30	4.26	1470.
250	4.08	33.85	248	26.88	119.7	4.60	4.99	1470.
300	4.02	33.91	298	26.94	114.8	5.18	6.63	1470.
400	3.85	34.02	397	27.05	105.6	6.29	10.56	1471.
500	3.72	34.12	496	27.14	97.2	7.30	15.21	1473.
600	3.53	34.20	595	27.22	90.4	8.24	20.46	1474.
800	3.20	34.30	793	27.33	80.5	9.94	32.56	1476.
1000	2.87	34.39	990	27.43	72.1	11.47	46.51	1478.
1200	2.62	34.46	1188	27.51	65.3	12.83	61.84	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 71

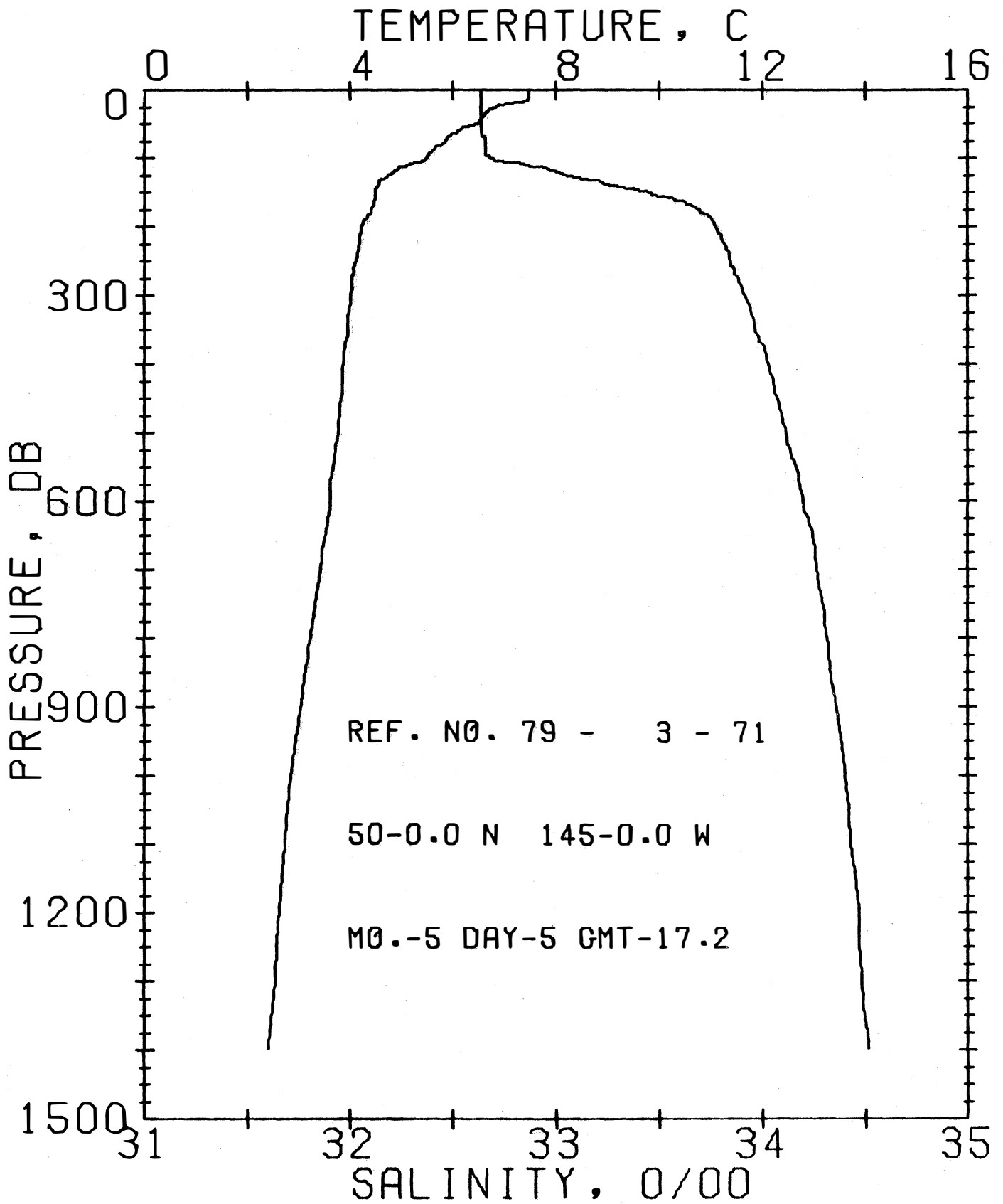
DATE 5/ 5/79

POSITION 50- .0N, 145- .0W GMT 17.2 STATION P

RESULTS OF STP CAST 163 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	7.47	32.63	0	25.51	247.8	.00	.00	1478.
10	7.46	32.63	10	25.52	247.8	.25	.01	1478.
20	7.05	32.63	20	25.57	242.6	.49	.05	1476.
30	6.69	32.63	30	25.62	238.1	.73	.11	1475.
40	6.56	32.63	40	25.64	236.7	.97	.20	1475.
50	6.43	32.63	50	25.65	235.2	1.21	.30	1474.
60	6.09	32.64	60	25.70	230.5	1.44	.43	1473.
70	5.86	32.65	70	25.74	227.1	1.67	.59	1473.
80	5.76	32.65	79	25.75	226.1	1.90	.76	1472.
90	5.58	32.65	89	25.77	224.1	2.12	.95	1472.
100	5.46	32.68	99	25.81	220.6	2.34	1.17	1471.
110	5.12	32.85	109	25.98	204.2	2.56	1.40	1470.
120	4.83	33.00	119	26.13	189.9	2.75	1.63	1470.
130	4.62	33.14	129	26.27	177.3	2.94	1.86	1469.
140	4.53	33.28	139	26.39	165.9	3.11	2.10	1469.
150	4.49	33.45	149	26.53	152.9	3.27	2.34	1469.
160	4.47	33.57	159	26.63	143.4	3.42	2.57	1470.
170	4.44	33.65	169	26.69	137.3	3.56	2.81	1470.
180	4.37	33.71	179	26.75	132.4	3.69	3.05	1470.
190	4.27	33.75	189	26.79	128.5	3.82	3.29	1469.
200	4.22	33.77	199	26.81	126.2	3.95	3.54	1469.
210	4.20	33.79	209	26.83	124.7	4.08	3.81	1469.
220	4.18	33.81	218	26.84	123.3	4.20	4.08	1470.
230	4.16	33.83	228	26.86	121.7	4.32	4.36	1470.
240	4.14	33.84	238	26.87	120.8	4.44	4.65	1470.
250	4.10	33.85	248	26.89	119.7	4.56	4.95	1470.
260	4.06	33.86	258	26.90	118.7	4.68	5.26	1470.
270	4.02	33.87	268	26.91	117.6	4.80	5.58	1470.
280	4.02	33.89	278	26.92	116.2	4.92	5.91	1470.
290	4.02	33.90	288	26.93	115.5	5.03	6.24	1470.
300	4.00	33.91	298	26.95	114.3	5.15	6.59	1470.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 71

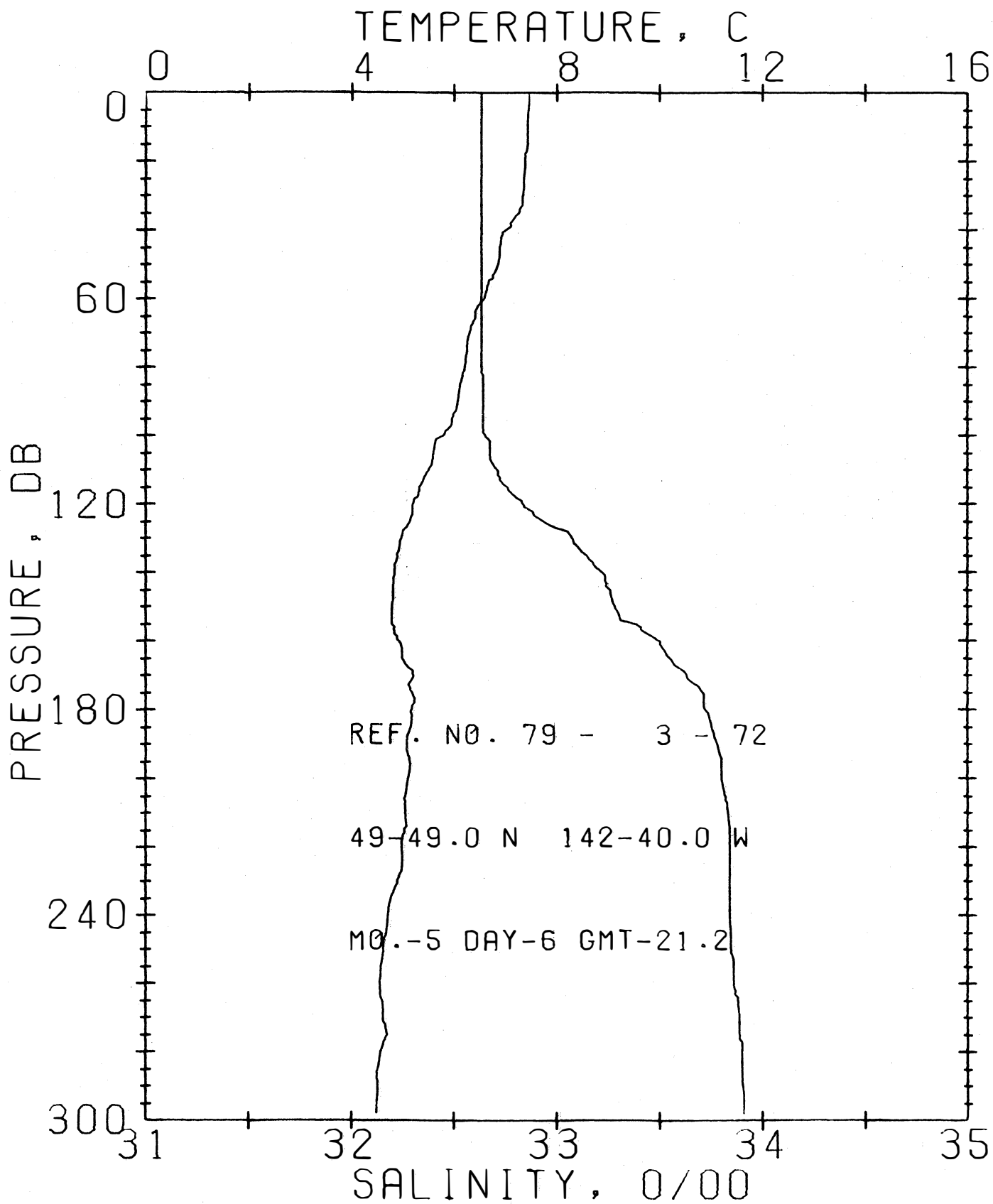
DATE 5/ 5/79

POSITION 50- .0N, 145- .0W GMT 17.2 STATION P

RESULTS OF STP CAST 247 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	7.47	32.63	0	25.51	247.8	.00	.00	1478.
10	7.46	32.63	10	25.52	247.8	.25	.01	1478.
20	7.05	32.63	20	25.57	242.6	.49	.05	1476.
30	6.69	32.63	30	25.62	238.1	.73	.11	1475.
50	6.43	32.63	50	25.65	235.2	1.21	.30	1474.
75	5.84	32.65	75	25.74	227.0	1.78	.67	1473.
100	5.46	32.68	99	25.81	220.6	2.34	1.17	1471.
125	4.75	33.04	124	26.18	186.1	2.85	1.75	1469.
150	4.49	33.45	149	26.53	152.9	3.27	2.34	1469.
175	4.41	33.68	174	26.72	134.6	3.63	2.93	1470.
200	4.22	33.77	199	26.81	126.2	3.95	3.54	1469.
225	4.17	33.82	223	26.85	122.9	4.26	4.22	1470.
250	4.10	33.85	248	26.89	119.7	4.56	4.95	1470.
300	4.00	33.91	298	26.95	114.3	5.15	6.59	1470.
400	3.86	34.02	397	27.05	105.4	6.25	10.49	1471.
500	3.75	34.11	496	27.13	98.5	7.26	15.16	1473.
600	3.60	34.19	595	27.21	91.8	8.21	20.47	1474.
800	3.21	34.31	793	27.34	79.9	9.92	32.60	1476.
1000	2.84	34.40	990	27.44	70.9	11.42	46.36	1478.
1200	2.61	34.47	1188	27.52	64.4	12.77	61.48	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 72

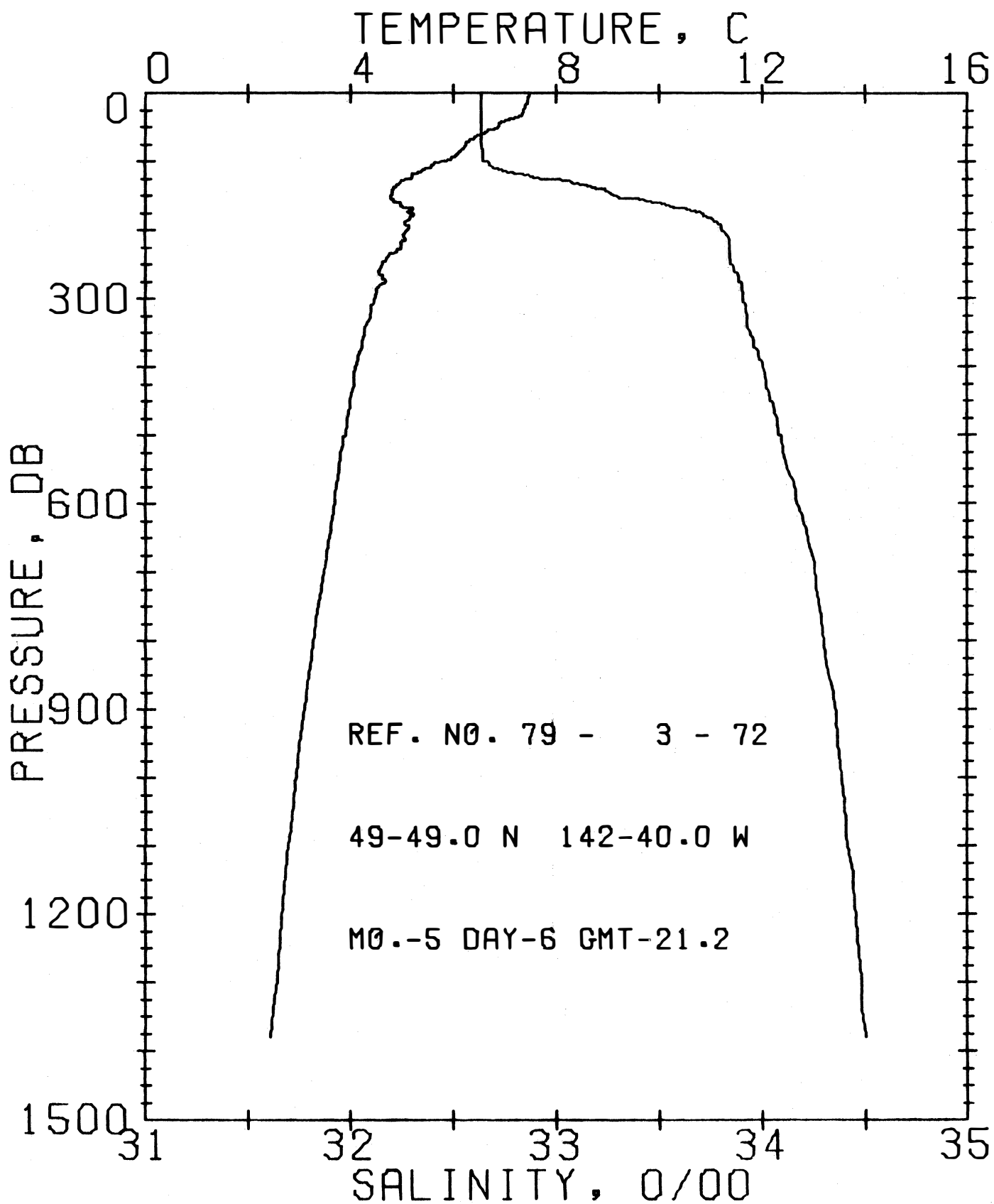
DATE 6/ 5/79

POSITION 49-49.0N, 142-40.0W GMT 21.2 STATION 12

RESULTS OF STP CAST 176 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	7.46	32.63	0	25.52	247.7	.00	.00	1478.
10	7.45	32.63	10	25.52	247.7	.25	.01	1478.
20	7.40	32.63	20	25.52	247.2	.50	.05	1478.
30	7.34	32.63	30	25.53	246.5	.74	.11	1478.
40	7.00	32.63	40	25.58	242.2	.99	.20	1477.
50	6.85	32.63	50	25.60	240.4	1.23	.31	1476.
60	6.59	32.63	60	25.63	237.3	1.47	.45	1475.
70	6.30	32.63	70	25.67	233.9	1.70	.60	1474.
80	6.19	32.63	79	25.68	232.7	1.93	.78	1474.
90	6.05	32.64	89	25.71	230.3	2.17	.98	1474.
100	5.79	32.65	99	25.75	226.6	2.40	1.20	1473.
110	5.48	32.71	109	25.83	218.7	2.62	1.44	1472.
120	5.18	32.84	119	25.96	206.1	2.83	1.69	1471.
130	4.96	33.07	129	26.18	186.2	3.03	1.94	1470.
140	4.82	33.22	139	26.31	173.5	3.21	2.19	1470.
150	4.78	33.28	149	26.36	168.7	3.38	2.44	1470.
160	4.91	33.50	159	26.52	153.7	3.54	2.70	1471.
170	5.19	33.62	169	26.59	147.6	3.69	2.95	1473.
180	5.16	33.72	179	26.67	140.2	3.84	3.21	1473.
190	5.08	33.78	189	26.72	135.0	3.97	3.47	1473.
200	5.10	33.80	199	26.74	133.9	4.11	3.73	1473.
210	5.05	33.83	209	26.77	130.9	4.24	4.01	1473.
220	4.97	33.84	218	26.78	129.6	4.37	4.29	1473.
230	4.87	33.84	228	26.79	128.6	4.50	4.59	1473.
240	4.70	33.84	238	26.81	126.8	4.63	4.90	1472.
250	4.62	33.85	248	26.83	125.2	4.75	5.21	1472.
260	4.54	33.86	258	26.85	123.7	4.88	5.53	1472.
270	4.62	33.89	268	26.86	122.4	5.00	5.86	1472.
280	4.57	33.90	278	26.87	121.3	5.12	6.21	1472.
290	4.51	33.90	288	26.88	120.5	5.24	6.56	1472.
300	4.46	33.91	298	26.89	119.5	5.36	6.92	1472.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 72

DATE 6/ 5/79

POSITION 49-49.0N, 142-40.0W

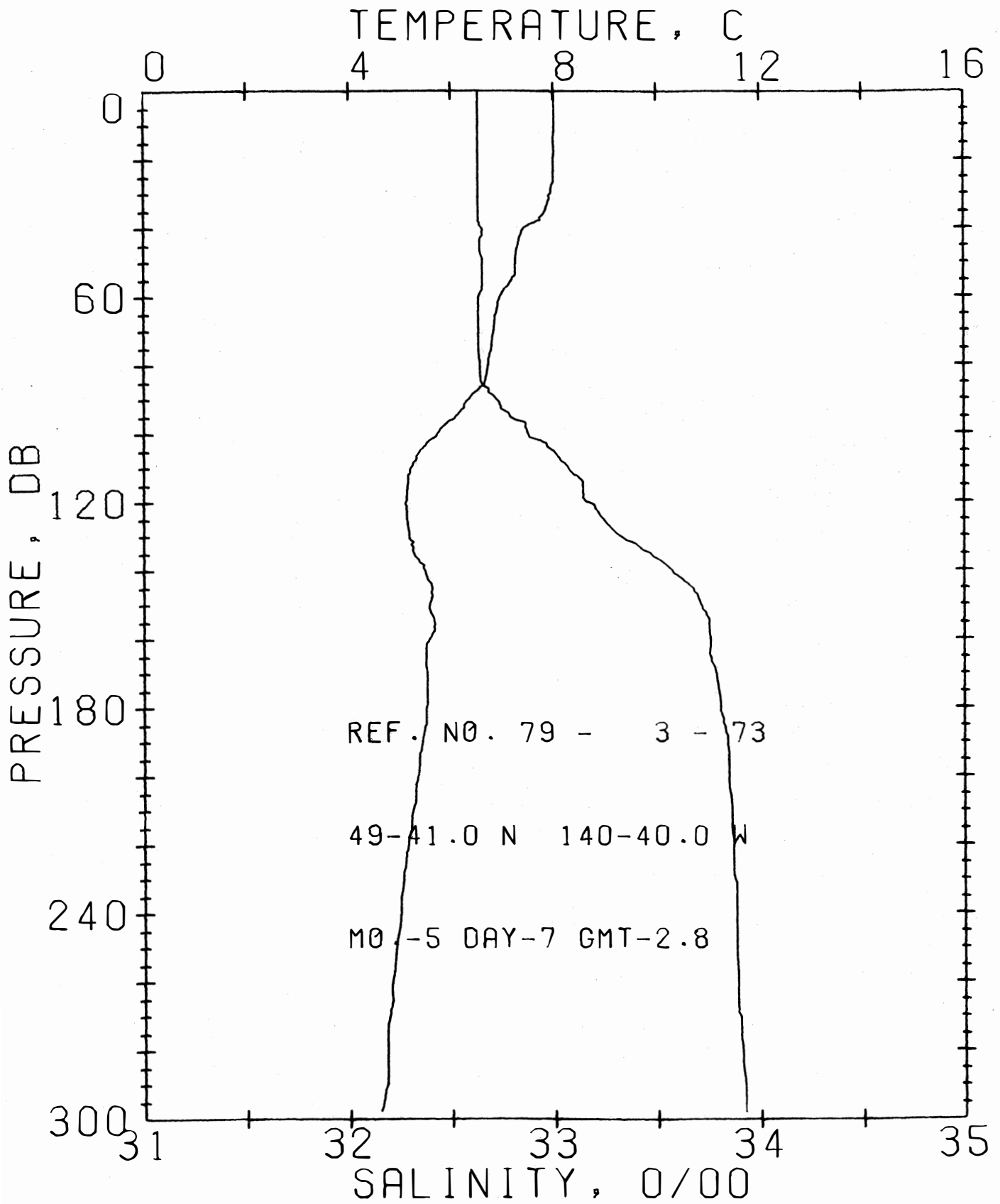
GMT 21.2

STATION 12

RESULTS OF STP CAST 251 POINTS TAKEN FROM ANALOG TRACE

GUIDELINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	7.46	32.63	0	25.52	247.7	.00	.00	1478.
10	7.45	32.63	10	25.52	247.7	.25	.01	1478.
20	7.40	32.63	20	25.52	247.2	.50	.05	1478.
30	7.34	32.63	30	25.53	246.5	.74	.11	1478.
50	6.85	32.63	50	25.60	240.4	1.23	.31	1476.
75	6.25	32.63	75	25.68	233.3	1.82	.69	1474.
100	5.79	32.65	99	25.75	226.6	2.40	1.20	1473.
125	5.12	32.94	124	26.05	197.6	2.93	1.82	1471.
150	4.78	33.28	149	26.36	168.7	3.38	2.44	1470.
175	5.16	33.71	174	26.66	141.0	3.76	3.08	1473.
200	5.10	33.80	199	26.74	133.9	4.11	3.73	1473.
225	4.98	33.84	223	26.78	129.7	4.43	4.44	1473.
250	4.62	33.85	248	26.83	125.2	4.75	5.21	1472.
300	4.46	33.91	298	26.89	119.5	5.36	6.92	1472.
400	4.09	34.00	397	27.01	109.6	6.51	11.02	1472.
500	3.88	34.08	496	27.09	102.1	7.57	15.86	1473.
600	3.66	34.17	595	27.18	94.3	8.55	21.35	1474.
800	3.26	34.30	793	27.32	81.5	10.29	33.71	1476.
1000	2.93	34.39	990	27.43	72.5	11.82	47.73	1478.
1200	2.65	34.45	1188	27.50	66.1	13.21	63.25	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 73

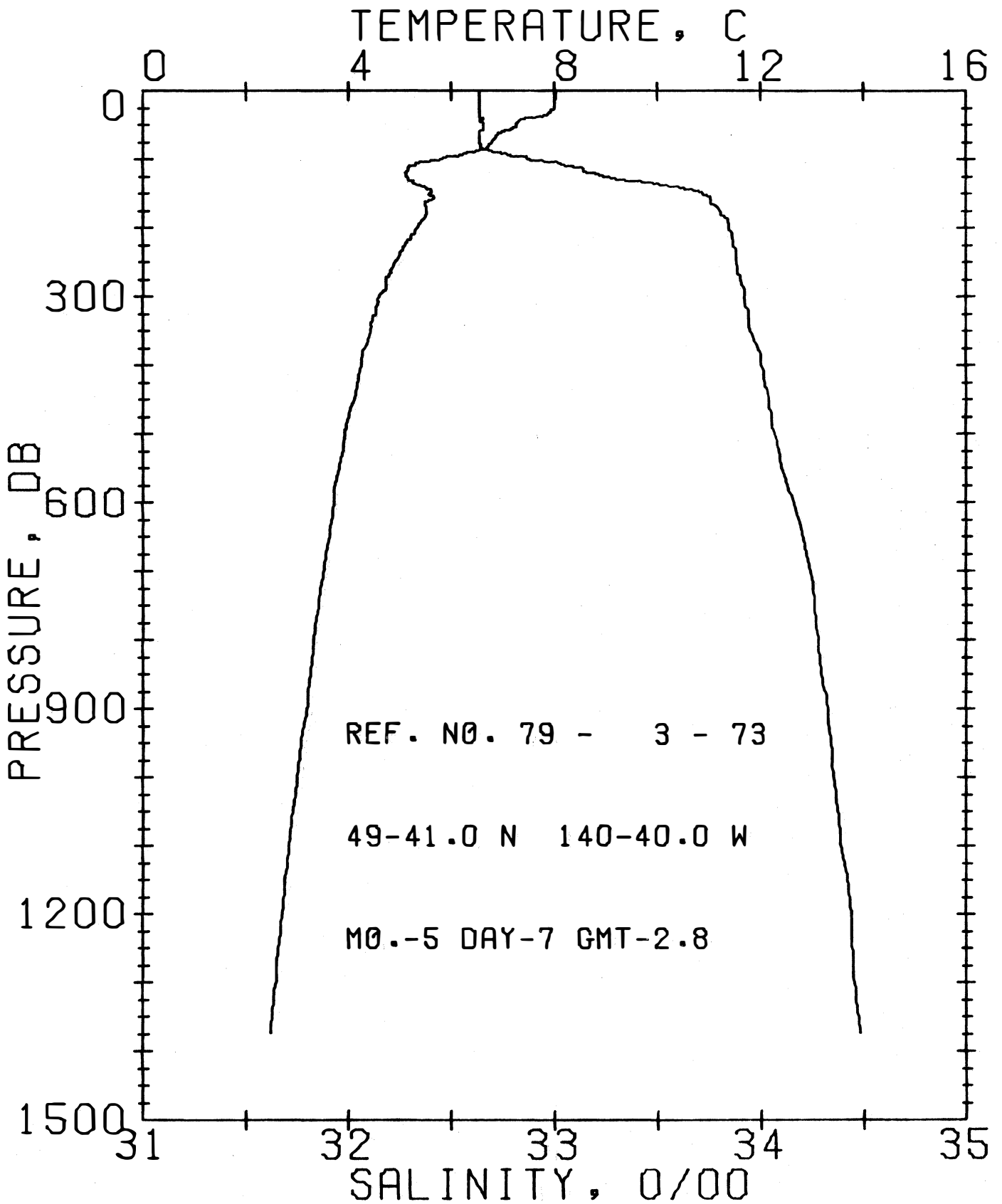
DATE 7/ 5/79

POSITION 49-41.0N, 140-40.0W GMT 2.8 STATION 11

RESULTS OF STP CAST 181 POINTS TAKEN FROM ANALOG TRACE

GUIDELINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	8.03	32.63	0	25.43	255.4	.00	.00	1480.
10	8.03	32.63	10	25.43	255.5	.26	.01	1480.
20	8.01	32.63	20	25.44	255.4	.51	.05	1480.
30	7.95	32.63	30	25.45	254.7	.77	.12	1480.
40	7.43	32.65	40	25.53	246.3	1.02	.21	1478.
50	7.26	32.65	50	25.56	244.2	1.26	.32	1478.
60	6.96	32.63	60	25.58	242.0	1.51	.46	1477.
70	6.84	32.63	70	25.60	240.6	1.75	.62	1476.
80	6.72	32.64	80	25.62	238.4	1.99	.80	1476.
90	6.35	32.72	89	25.73	228.0	2.22	1.00	1475.
100	5.74	32.87	99	25.93	209.2	2.44	1.21	1473.
110	5.21	33.07	109	26.14	189.1	2.64	1.43	1471.
120	5.12	33.15	119	26.22	181.9	2.82	1.64	1471.
130	5.17	33.32	129	26.35	169.8	3.00	1.87	1472.
140	5.47	33.57	139	26.51	154.6	3.16	2.09	1473.
150	5.57	33.71	149	26.61	145.4	3.31	2.31	1474.
160	5.56	33.76	159	26.65	141.7	3.45	2.53	1474.
170	5.51	33.79	169	26.68	139.0	3.59	2.77	1474.
180	5.50	33.81	179	26.70	137.6	3.73	3.02	1474.
190	5.42	33.84	189	26.73	134.5	3.87	3.27	1474.
200	5.32	33.85	199	26.75	132.6	4.00	3.54	1474.
210	5.23	33.86	209	26.77	131.0	4.13	3.81	1474.
220	5.14	33.87	218	26.79	129.3	4.26	4.10	1474.
230	5.04	33.87	228	26.80	127.8	4.39	4.40	1473.
240	4.98	33.88	238	26.81	126.9	4.52	4.70	1473.
250	4.89	33.88	248	26.82	126.0	4.65	5.02	1473.
260	4.82	33.89	258	26.84	124.7	4.77	5.34	1473.
270	4.77	33.90	268	26.85	123.4	4.90	5.68	1473.
280	4.73	33.91	278	26.86	122.3	5.02	6.02	1473.
290	4.71	33.92	288	26.88	121.4	5.14	6.38	1473.
300	4.58	33.92	298	26.89	120.1	5.26	6.74	1473.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 73

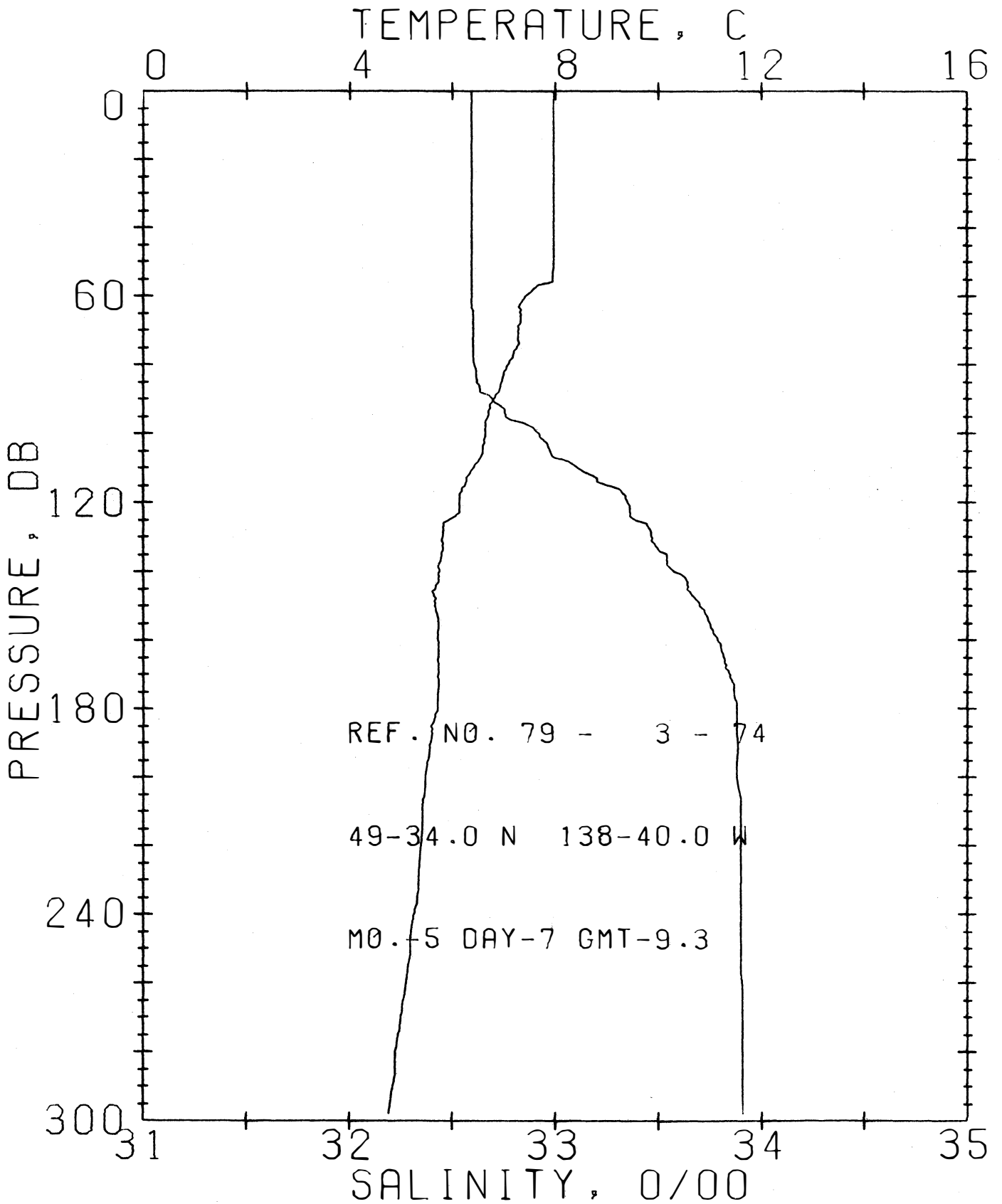
DATE 7/ 5/79

POSITION 49-41.0N, 140-40.0W GMT 2.8 STATION 11

RESULTS OF STP CAST 291 POINTS TAKEN FROM ANALOG TRACE

GUIDELINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	8.03	32.63	0	25.43	255.4	.00	.00	1480.
10	8.03	32.63	10	25.43	255.5	.26	.01	1480.
20	8.01	32.63	20	25.44	255.4	.51	.05	1480.
30	7.95	32.63	30	25.45	254.7	.77	.12	1480.
50	7.26	32.65	50	25.56	244.2	1.26	.32	1478.
75	6.79	32.63	75	25.61	240.0	1.87	.70	1476.
100	5.74	32.87	99	25.93	209.2	2.44	1.21	1473.
125	5.12	33.24	124	26.29	175.2	2.91	1.75	1471.
150	5.57	33.71	149	26.61	145.4	3.31	2.31	1474.
175	5.52	33.80	174	26.69	138.4	3.66	2.89	1474.
200	5.32	33.85	199	26.75	132.6	4.00	3.54	1474.
225	5.09	33.87	223	26.79	128.8	4.33	4.25	1474.
250	4.89	33.88	248	26.82	126.0	4.65	5.02	1473.
300	4.58	33.92	298	26.89	120.1	5.26	6.74	1473.
400	4.24	34.00	397	26.99	111.2	6.42	10.86	1473.
500	3.92	34.06	496	27.07	103.8	7.50	15.79	1473.
600	3.70	34.15	595	27.17	95.6	8.50	21.39	1474.
800	3.30	34.28	793	27.30	83.5	10.27	34.01	1476.
1000	2.98	34.36	990	27.40	75.5	11.86	48.57	1478.
1200	2.70	34.44	1188	27.49	67.6	13.29	64.57	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 74

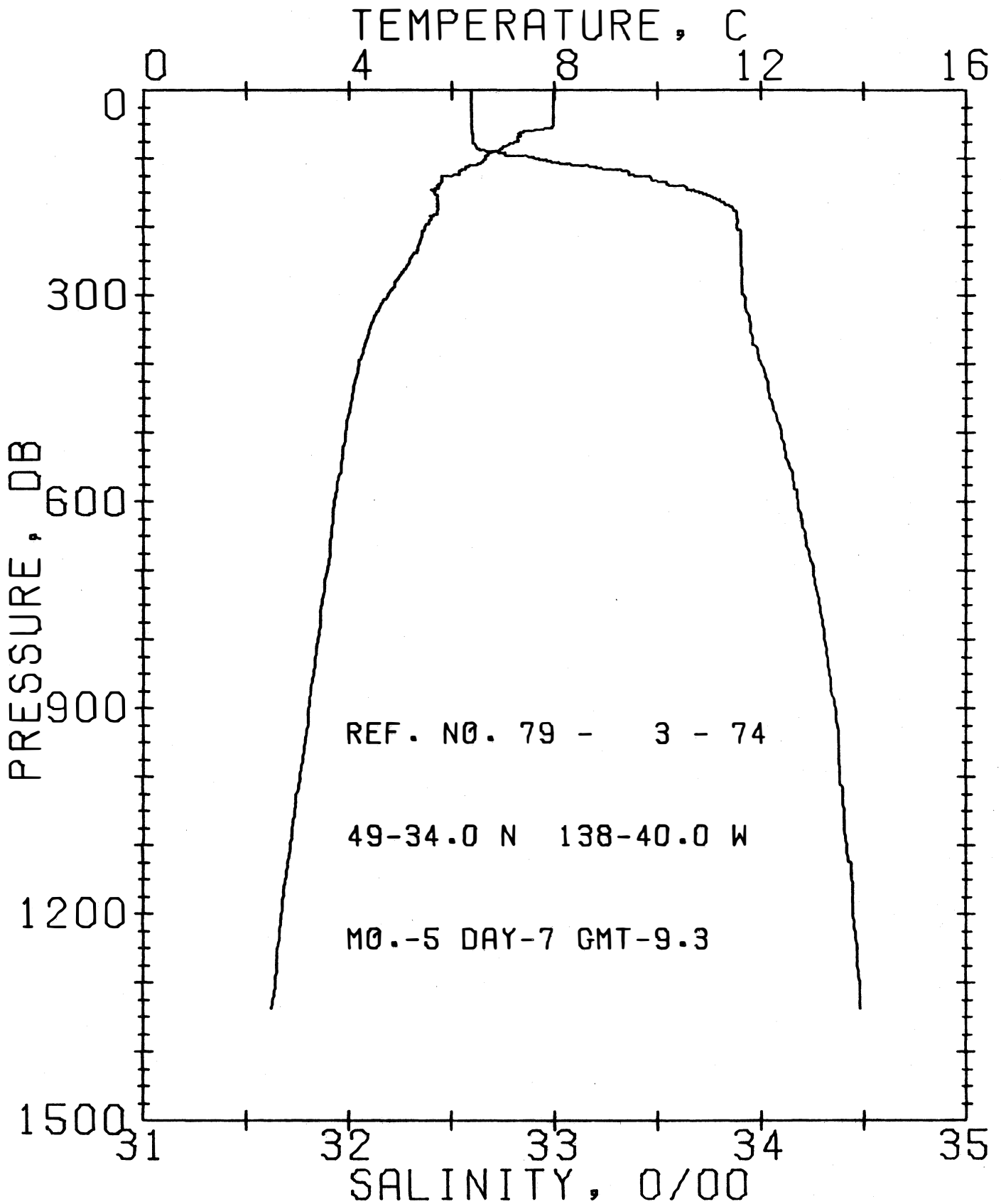
DATE 7/ 5/79

POSITION 49-34.0N, 138-40.0W GMT 9.3 STATION 10

RESULTS OF STP CAST 176 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	7.98	32.59	0	25.41	257.7	.00	.00	1480.
10	7.98	32.59	10	25.41	257.8	.26	.01	1480.
20	7.98	32.59	20	25.41	258.0	.52	.05	1480.
30	7.98	32.59	30	25.41	258.1	.77	.12	1480.
40	7.97	32.59	40	25.41	258.1	1.03	.21	1480.
50	7.97	32.59	50	25.41	258.3	1.29	.33	1480.
60	7.41	32.59	60	25.49	250.8	1.55	.47	1478.
70	7.29	32.60	70	25.52	248.6	1.80	.64	1478.
80	7.09	32.61	80	25.55	245.7	2.04	.83	1478.
90	6.80	32.69	89	25.65	235.8	2.29	1.04	1477.
100	6.64	32.92	99	25.85	216.8	2.51	1.26	1477.
110	6.41	33.11	109	26.03	199.8	2.72	1.48	1476.
120	6.13	33.35	119	26.26	178.7	2.91	1.70	1475.
130	5.80	33.47	129	26.39	165.8	3.08	1.92	1474.
140	5.76	33.57	139	26.48	158.0	3.25	2.14	1474.
150	5.66	33.70	149	26.59	147.3	3.40	2.37	1474.
160	5.71	33.79	159	26.66	141.3	3.54	2.60	1475.
170	5.73	33.85	169	26.70	137.1	3.68	2.83	1475.
180	5.70	33.88	179	26.73	134.7	3.82	3.07	1475.
190	5.57	33.89	189	26.75	132.5	3.95	3.32	1475.
200	5.47	33.88	199	26.76	132.2	4.08	3.59	1475.
210	5.42	33.90	209	26.78	130.2	4.21	3.86	1475.
220	5.38	33.90	218	26.78	129.9	4.34	4.15	1475.
230	5.33	33.90	228	26.79	129.4	4.47	4.44	1475.
240	5.25	33.90	238	26.80	128.5	4.60	4.75	1474.
250	5.17	33.90	248	26.81	127.7	4.73	5.07	1474.
260	5.10	33.90	258	26.82	126.6	4.86	5.40	1474.
270	4.98	33.91	268	26.84	125.0	4.98	5.74	1474.
280	4.89	33.91	278	26.85	124.1	5.11	6.09	1474.
290	4.85	33.91	288	26.85	123.7	5.23	6.45	1474.
300	4.74	33.91	298	26.87	122.3	5.35	6.82	1473.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 74

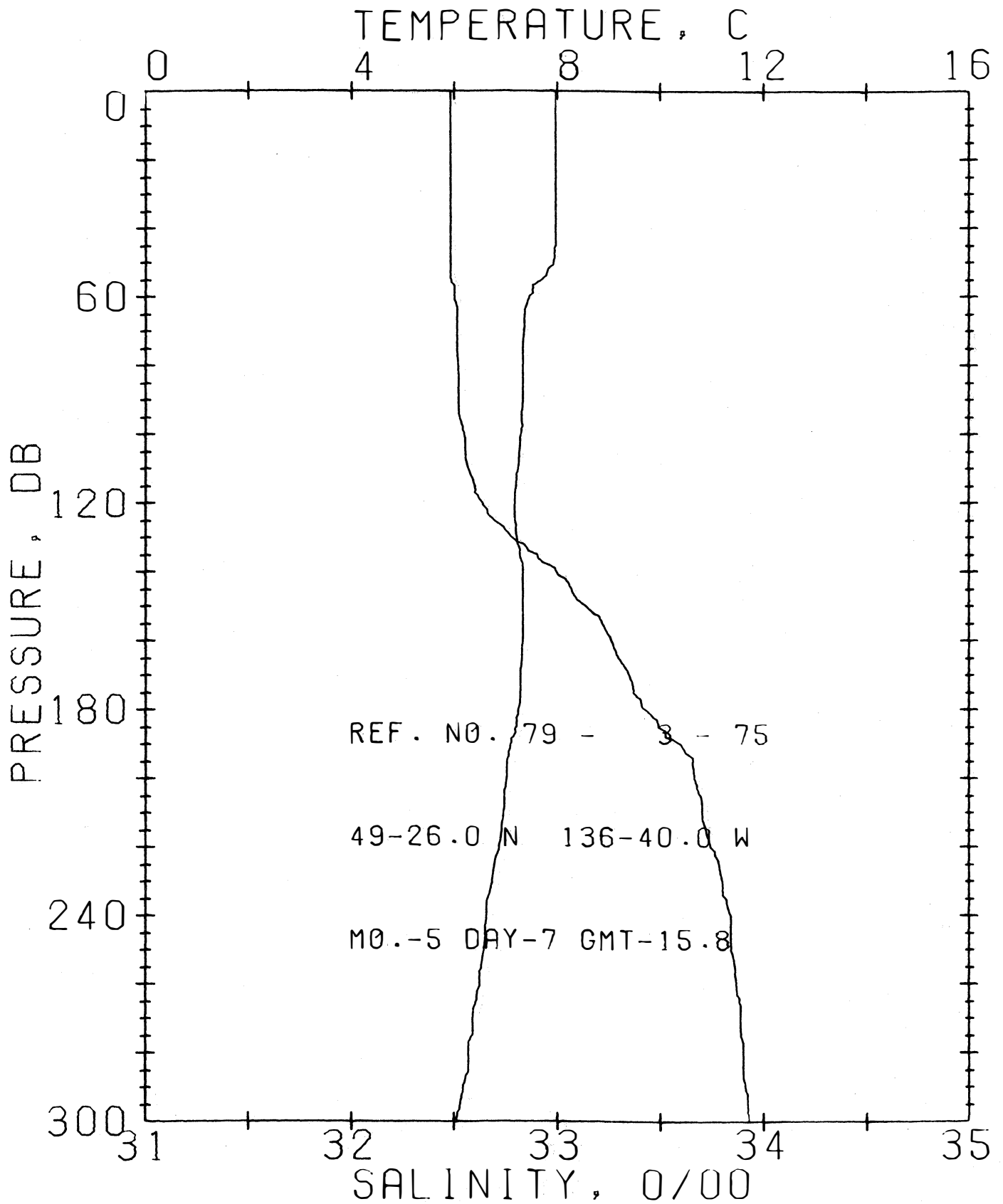
DATE 7/ 5/79

POSITION 49-34.0N, 138-40.0W GMT 9.3 STATION 10

RESULTS OF STP CAST 299 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

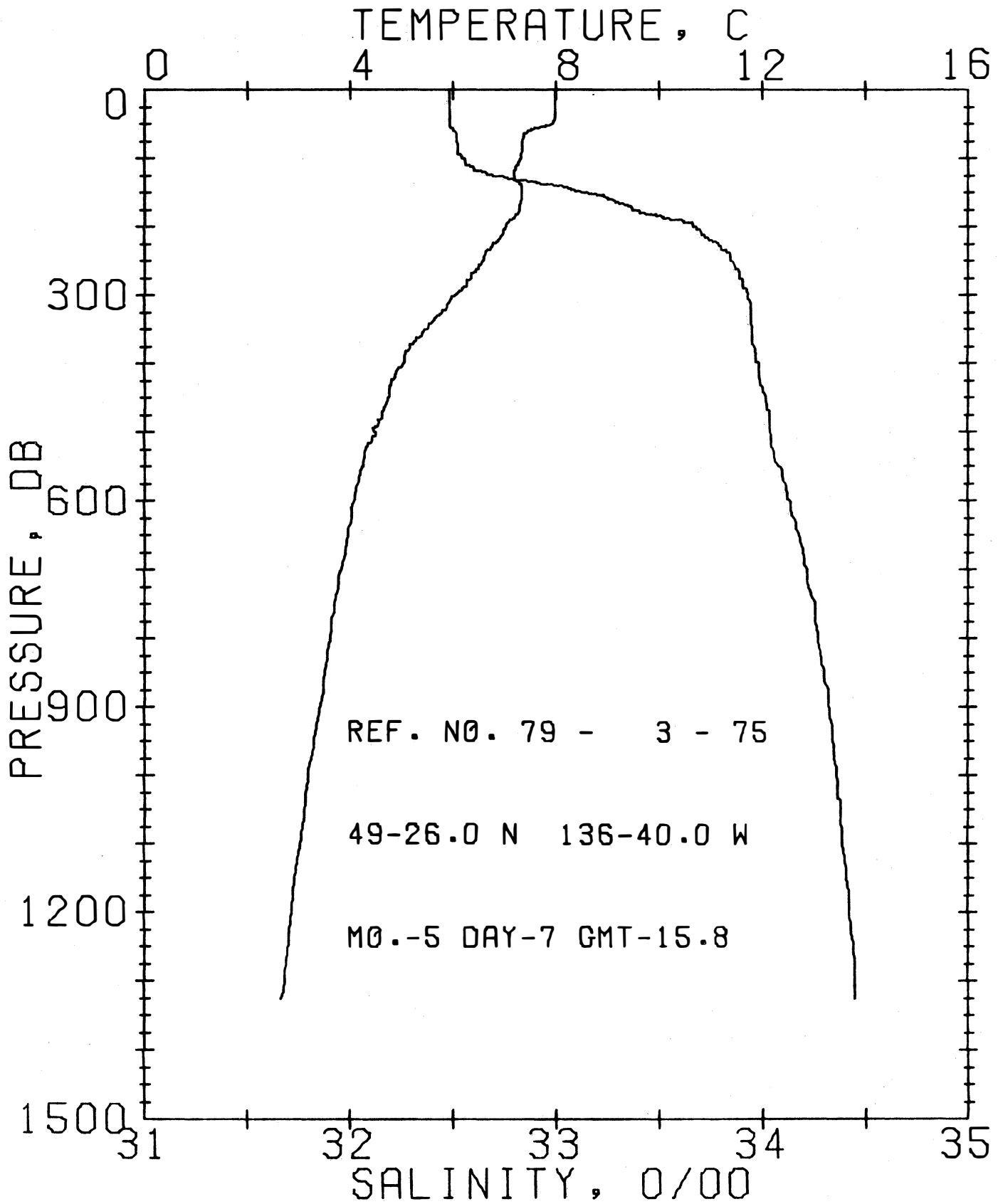
PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	7.98	32.59	0	25.41	257.7	.00	.00	1480.
10	7.98	32.59	10	25.41	257.8	.26	.01	1480.
20	7.98	32.59	20	25.41	258.0	.52	.05	1480.
30	7.98	32.59	30	25.41	258.1	.77	.12	1480.
50	7.97	32.59	50	25.41	258.3	1.29	.33	1480.
75	7.25	32.60	75	25.52	248.2	1.92	.73	1478.
100	6.64	32.92	99	25.85	216.8	2.51	1.26	1477.
125	5.92	33.39	124	26.31	173.2	3.00	1.81	1475.
150	5.66	33.70	149	26.59	147.3	3.40	2.37	1474.
175	5.72	33.87	174	26.72	135.5	3.75	2.95	1475.
200	5.47	33.88	199	26.76	132.2	4.08	3.59	1475.
225	5.36	33.96	223	26.79	129.6	4.41	4.29	1475.
250	5.17	33.90	248	26.81	127.7	4.73	5.07	1474.
300	4.74	33.91	298	26.87	122.3	5.35	6.82	1473.
400	4.18	34.00	397	26.99	110.8	6.52	10.96	1473.
500	3.92	34.10	496	27.10	101.2	7.58	15.82	1473.
600	3.71	34.18	595	27.19	93.8	8.56	21.30	1474.
800	3.38	34.31	793	27.32	82.0	10.32	33.80	1476.
1000	3.03	34.39	990	27.42	73.7	11.86	47.97	1478.
1200	2.68	34.45	1188	27.50	66.6	13.26	63.61	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 75 DATE 7/ 5/79
 POSITION 49-26.0N, 136-40.0W GMT 15.8 STATION 9
 RESULTS OF STP CAST 159 POINTS TAKEN FROM ANALOG TRACE
 GUIDELINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	7.98	32.48	0	25.32	265.9	.00	.00	1480.
10	7.98	32.48	10	25.32	266.0	.27	.01	1480.
20	7.98	32.48	20	25.32	266.2	.53	.05	1480.
30	7.98	32.48	30	25.32	266.3	.80	.12	1480.
40	7.98	32.48	40	25.32	266.5	1.06	.22	1480.
50	7.93	32.48	50	25.33	265.8	1.33	.34	1480.
60	7.46	32.50	60	25.41	258.2	1.59	.49	1479.
70	7.36	32.51	70	25.44	256.2	1.85	.66	1478.
80	7.34	32.52	80	25.44	255.7	2.11	.85	1478.
90	7.33	32.52	89	25.45	255.4	2.36	1.07	1479.
100	7.30	32.55	99	25.47	253.3	2.62	1.32	1479.
110	7.23	32.57	109	25.50	251.0	2.87	1.59	1479.
120	7.17	32.63	119	25.55	245.5	3.12	1.88	1479.
130	7.21	32.78	129	25.67	234.6	3.36	2.19	1479.
140	7.33	32.99	139	25.82	220.8	3.58	2.50	1480.
150	7.34	33.14	149	25.93	210.3	3.80	2.82	1480.
160	7.32	33.26	159	26.03	201.4	4.01	3.14	1481.
170	7.29	33.35	169	26.10	194.3	4.20	3.48	1481.
180	7.25	33.42	179	26.17	188.2	4.40	3.82	1481.
190	7.10	33.59	189	26.32	174.2	4.58	4.16	1481.
200	7.01	33.66	199	26.39	167.9	4.75	4.50	1481.
210	6.94	33.70	209	26.43	164.2	4.91	4.85	1481.
220	6.86	33.74	219	26.47	160.3	5.08	5.20	1480.
230	6.72	33.80	228	26.53	154.1	5.23	5.56	1480.
240	6.61	33.84	238	26.58	149.8	5.38	5.93	1480.
250	6.56	33.84	248	26.59	149.3	5.53	6.30	1480.
260	6.48	33.87	258	26.62	146.4	5.68	6.68	1480.
270	6.36	33.89	268	26.65	143.3	5.83	7.07	1479.
280	6.26	33.90	278	26.67	141.4	5.97	7.47	1479.
290	6.17	33.91	288	26.69	139.6	6.11	7.88	1479.
300	6.02	33.93	298	26.73	136.4	6.25	8.30	1479.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 75

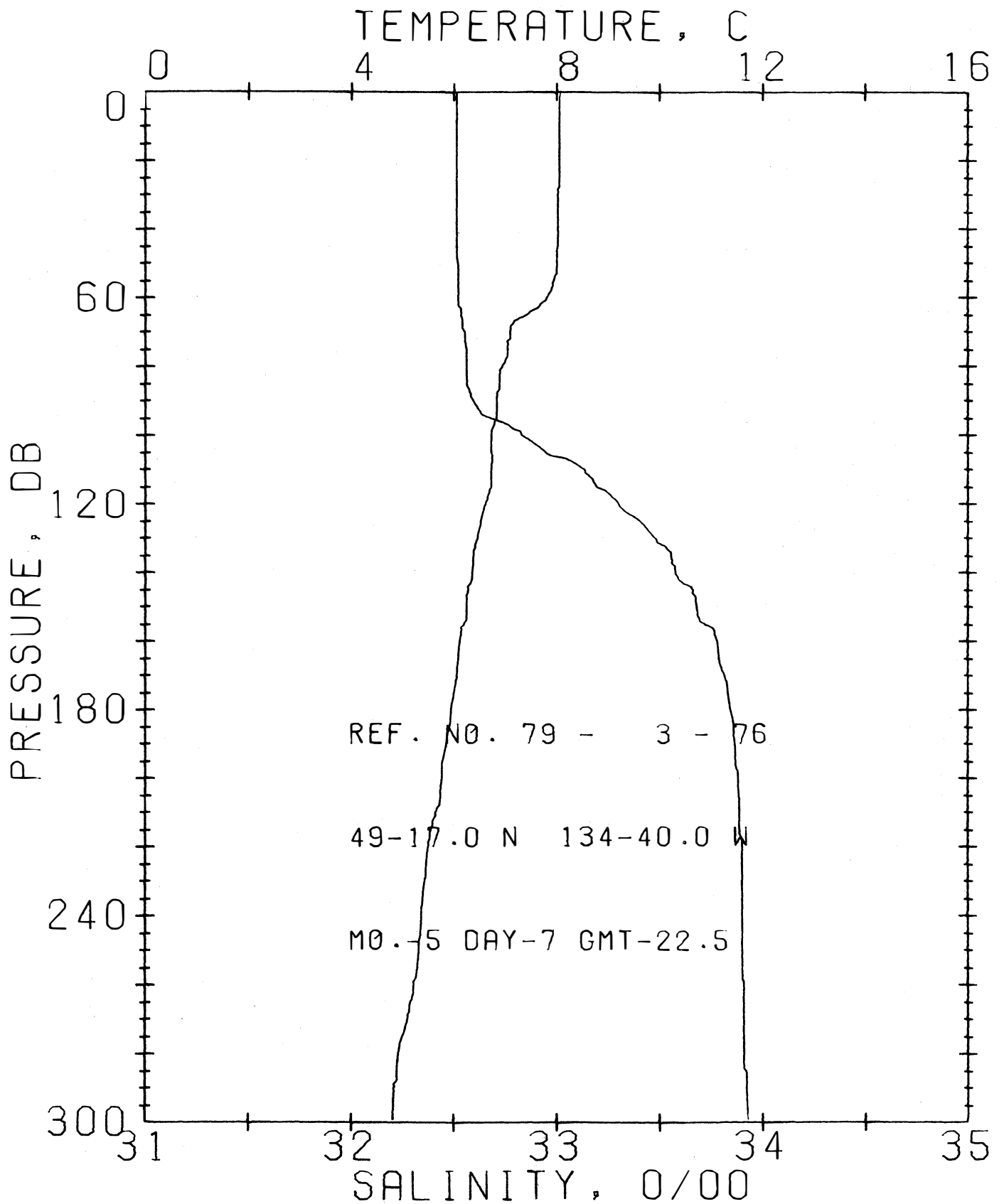
DATE 7/ 5/79

POSITION 49-26.0N, 136-40.0W GMT 15.8 STATION 9

RESULTS OF STP CAST 332 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS		SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	7.98	32.48	0	25.32	265.9	.00	.00	1480.
10	7.98	32.48	10	25.32	266.0	.27	.01	1480.
20	7.98	32.48	20	25.32	266.2	.53	.05	1480.
30	7.98	32.48	30	25.32	266.3	.80	.12	1480.
50	7.93	32.48	50	25.33	265.8	1.33	.34	1480.
75	7.34	32.51	75	25.44	256.1	1.98	.75	1478.
100	7.30	32.55	99	25.47	253.3	2.62	1.32	1479.
125	7.18	32.69	124	25.60	241.2	3.24	2.03	1479.
150	7.34	33.14	149	25.93	210.3	3.80	2.82	1480.
175	7.27	33.37	174	26.12	192.6	4.30	3.65	1481.
200	7.01	33.60	199	26.39	167.9	4.75	4.50	1481.
225	6.76	33.78	223	26.52	155.8	5.15	5.38	1480.
250	6.56	33.84	248	26.59	149.3	5.53	6.30	1480.
300	6.02	33.93	298	26.73	136.4	6.25	8.30	1479.
400	5.01	33.98	397	26.89	121.5	7.53	12.88	1476.
500	4.49	34.03	496	26.99	112.7	8.70	18.21	1476.
	4.06	34.13	595	27.11	101.7	9.77	24.20	1476.
	3.61	34.27	793	27.27	87.5	11.65	37.56	1477.
1000	3.16	34.36	991	27.38	77.3	13.29	52.58	1479.
1200	2.84		1188	27.46	70.5	14.76	69.09	1481.



OFFSHORE OCEANOGRAPHY GROUP

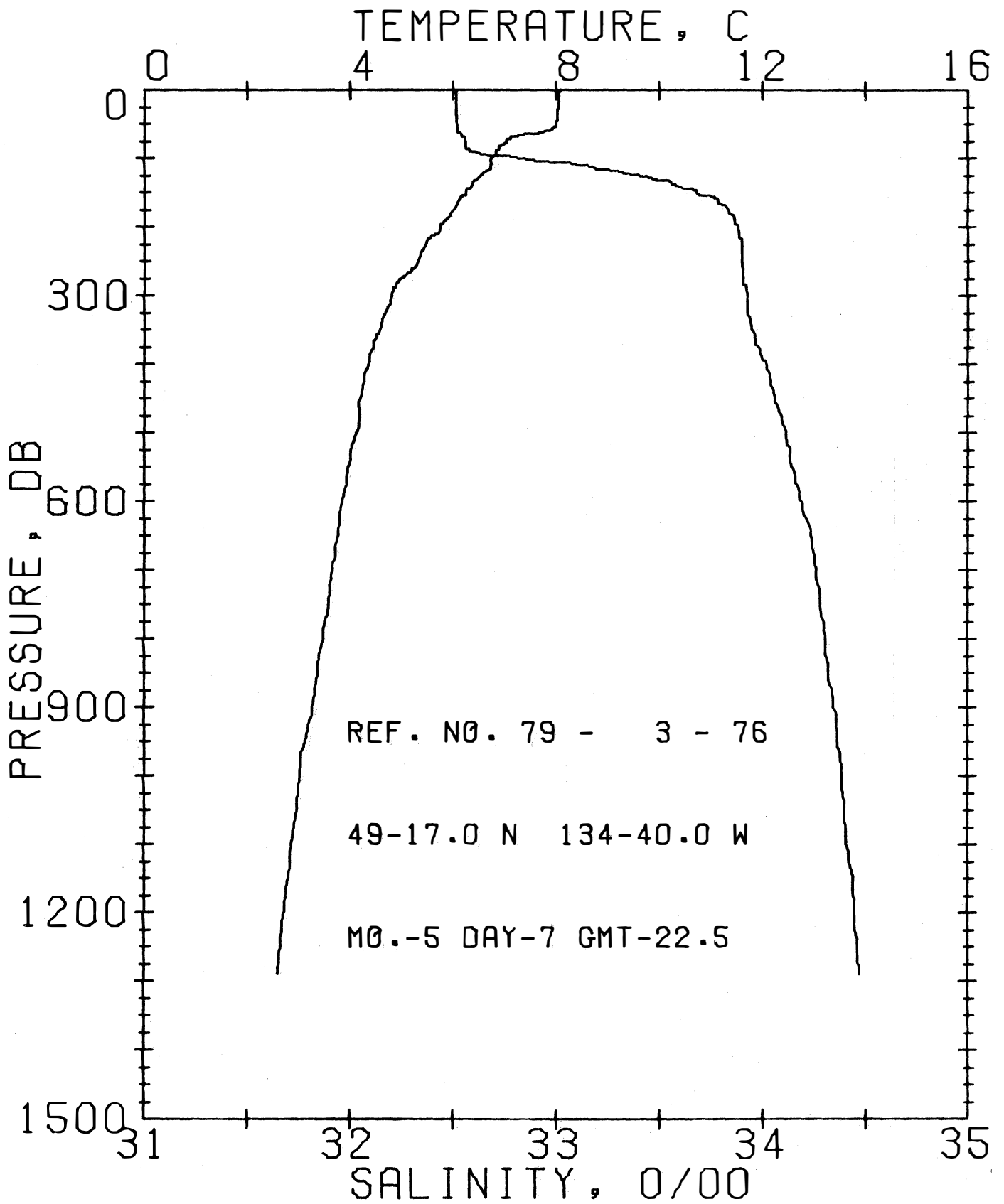
REFERENCE NO. 79- 3- 76

DATE 7/ 5/79

POSITION 49-17.0N, 134-40.0W GMT 22.5 STATION 8

RESULTS OF STP CAST 168 POINTS TAKEN FROM ANALOG TRACE
GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	8.07	32.51	0	25.33	264.9	.00	.00	1480.
10	8.05	32.51	10	25.34	264.7	.26	.01	1480.
20	8.05	32.51	20	25.34	264.9	.53	.05	1480.
30	8.04	32.51	30	25.34	264.9	.79	.12	1480.
40	8.04	32.51	40	25.34	265.1	1.06	.22	1480.
50	8.00	32.52	50	25.35	264.2	1.32	.34	1481.
60	7.82	32.52	60	25.38	261.6	1.59	.49	1480.
70	7.10	32.55	70	25.50	249.9	1.84	.65	1477.
80	6.93	32.56	80	25.53	247.1	2.09	.84	1477.
90	6.83	32.59	89	25.57	243.7	2.34	1.06	1477.
100	6.72	32.83	99	25.77	224.5	2.57	1.29	1477.
110	6.72	33.13	109	26.01	202.3	2.79	1.51	1477.
120	6.62	33.30	119	26.15	188.5	2.98	1.74	1477.
130	6.45	33.48	129	26.32	173.1	3.16	1.97	1477.
140	6.36	33.57	139	26.40	165.4	3.33	2.20	1477.
150	6.25	33.68	149	26.50	156.2	3.49	2.44	1477.
160	6.11	33.78	159	26.60	146.9	3.64	2.68	1477.
170	6.05	33.82	169	26.63	143.6	3.79	2.92	1476.
180	5.94	33.84	179	26.67	140.3	3.93	3.18	1476.
190	5.86	33.87	189	26.70	137.6	4.07	3.44	1476.
200	5.76	33.88	199	26.72	135.6	4.21	3.71	1476.
210	5.64	33.89	209	26.74	133.6	4.34	3.99	1476.
220	5.48	33.90	218	26.77	131.0	4.47	4.28	1475.
230	5.43	33.90	228	26.78	130.5	4.60	4.58	1475.
240	5.35	33.90	238	26.79	129.8	4.73	4.89	1475.
250	5.30	33.90	248	26.79	129.2	4.86	5.22	1475.
260	5.20	33.91	258	26.81	127.5	4.99	5.55	1475.
270	5.08	33.91	268	26.83	126.2	5.12	5.89	1474.
280	4.91	33.91	278	26.84	124.3	5.24	6.25	1474.
290	4.83	33.92	288	26.86	122.7	5.37	6.60	1474.
300	4.80	33.93	298	26.87	121.8	5.49	6.97	1474.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 76

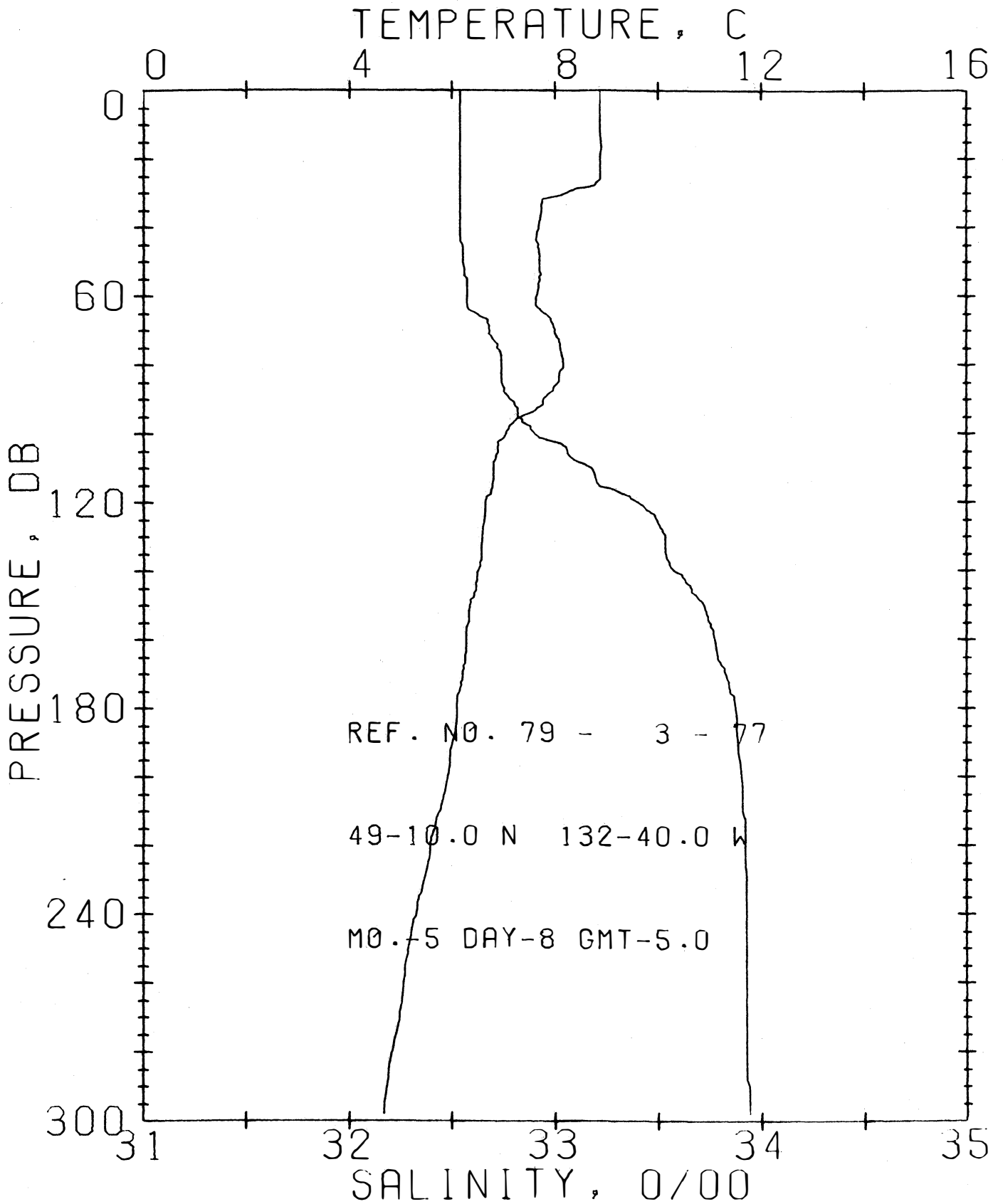
DATE 7/ 5/79

POSITION 49-17.0N, 134-40.0W GMT 22.5 STATION 8

RESULTS OF STP CAST 301 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	8.07	32.51	0	25.33	264.9	.00	.00	1480.
10	8.05	32.51	10	25.34	264.7	.26	.01	1480.
20	8.05	32.51	20	25.34	264.9	.53	.05	1480.
30	8.04	32.51	30	25.34	264.9	.79	.12	1480.
50	8.00	32.52	50	25.35	264.2	1.32	.34	1481.
75	7.05	32.56	75	25.52	248.5	1.97	.75	1477.
100	6.72	32.83	99	25.77	224.5	2.57	1.29	1477.
125	6.51	33.41	124	26.26	179.0	3.08	1.86	1477.
150	6.25	33.68	149	26.50	156.2	3.49	2.44	1477.
175	5.99	33.83	174	26.66	141.5	3.86	3.05	1476.
200	5.76	33.88	199	26.72	135.6	4.21	3.71	1476.
225	5.46	33.90	223	26.77	130.8	4.54	4.43	1475.
250	5.30	33.90	248	26.79	129.2	4.86	5.22	1475.
300	4.80	33.93	298	26.87	121.8	5.49	6.97	1474.
400	4.36	34.02	397	26.99	111.3	6.66	11.15	1474.
500	4.12	34.11	496	27.09	102.6	7.73	16.05	1474.
600	3.84	34.16	595	27.18	94.9	8.72	21.58	1475.
800	3.46	34.31	793	27.31	82.9	10.49	34.15	1477.
1000	3.01	34.39	990	27.42	73.4	12.05	48.48	1478.
1200	2.71	34.45	1188	27.49	66.9	13.46	64.24	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 77

DATE 8/ 5/79

POSITION 49-10.0N, 132-40.0W

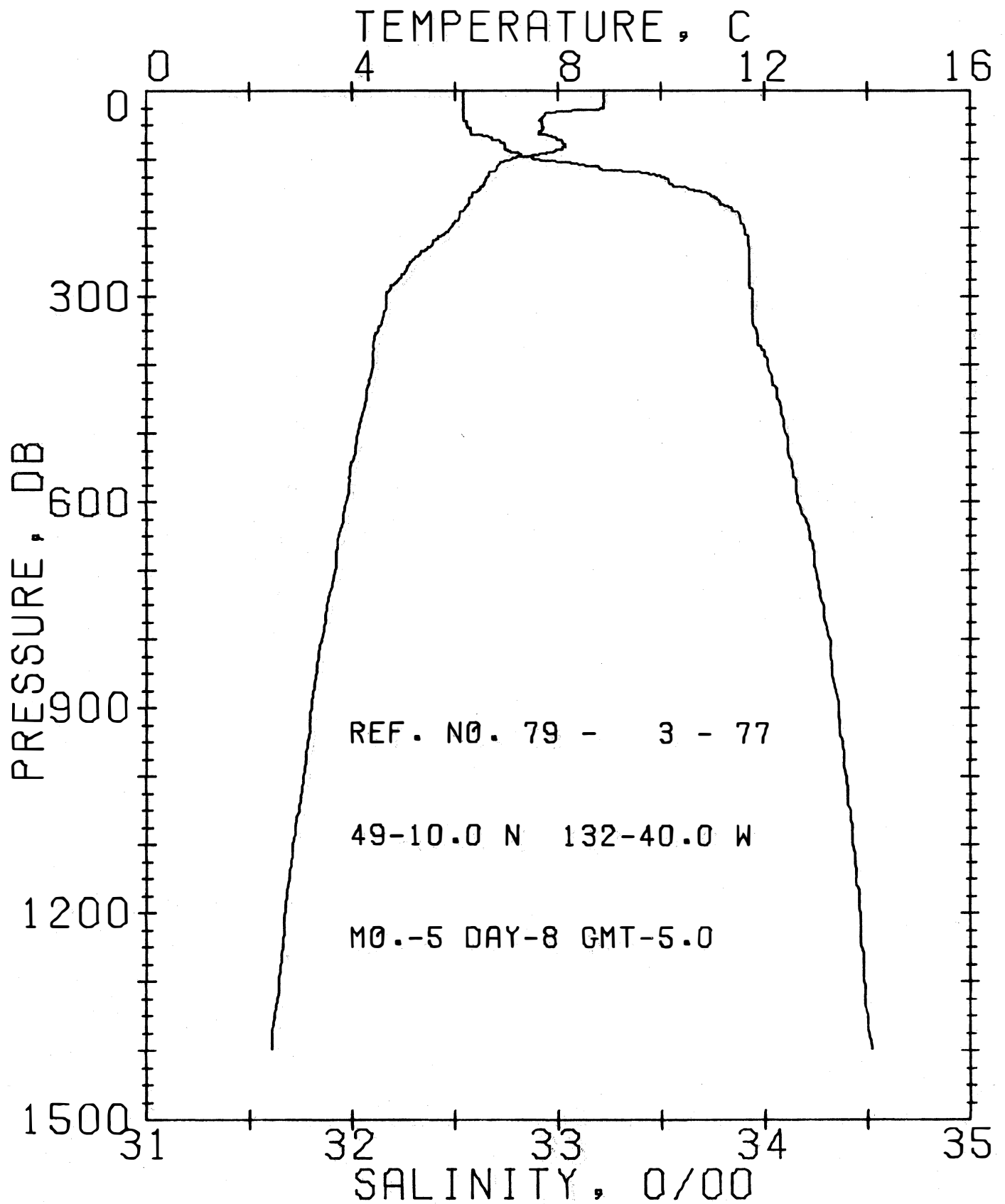
GMT 5.0

STATION 7

RESULTS OF STP CAST 176 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	8.89	32.54	0	25.23	274.3	.00	.00	1483.
10	8.89	32.54	10	25.23	274.5	.27	.01	1483.
20	8.89	32.54	20	25.23	274.7	.55	.06	1483.
30	8.27	32.54	30	25.33	265.9	.82	.13	1481.
40	7.69	32.54	40	25.41	258.0	1.08	.22	1479.
50	7.70	32.55	50	25.42	257.6	1.34	.34	1479.
60	7.65	32.57	60	25.44	255.5	1.60	.48	1479.
70	7.99	32.68	70	25.48	252.2	1.85	.65	1481.
80	8.15	32.74	80	25.50	250.1	2.10	.84	1482.
90	7.79	32.78	89	25.59	242.3	2.35	1.05	1481.
100	7.05	32.90	99	25.78	223.5	2.58	1.28	1478.
110	6.80	33.18	109	26.04	199.6	2.79	1.51	1478.
120	6.64	33.41	119	26.24	180.6	2.99	1.73	1477.
130	6.58	33.53	129	26.34	171.0	3.16	1.95	1478.
140	6.50	33.58	139	26.39	166.4	3.33	2.19	1477.
150	6.35	33.72	149	26.52	154.4	3.49	2.43	1477.
160	6.27	33.78	159	26.57	149.3	3.64	2.66	1477.
170	6.20	33.83	169	26.63	144.4	3.79	2.91	1477.
180	6.08	33.87	179	26.68	139.7	3.93	3.17	1477.
190	5.99	33.89	189	26.70	137.6	4.07	3.43	1477.
200	5.90	33.90	199	26.72	135.5	4.21	3.70	1476.
210	5.77	33.91	209	26.74	133.6	4.34	3.98	1476.
220	5.55	33.92	218	26.78	130.4	4.47	4.27	1475.
230	5.45	33.93	228	26.80	128.5	4.60	4.57	1475.
240	5.30	33.93	238	26.82	126.8	4.73	4.87	1475.
250	5.12	33.93	248	26.84	124.9	4.86	5.18	1474.
260	5.04	33.93	258	26.85	124.1	4.98	5.51	1474.
270	4.96	33.93	268	26.85	123.3	5.10	5.84	1474.
280	4.82	33.93	278	26.87	121.8	5.23	6.19	1473.
290	4.72	33.94	288	26.89	120.0	5.35	6.54	1473.
300	4.67	33.94	298	26.90	119.6	5.47	6.90	1473.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 77

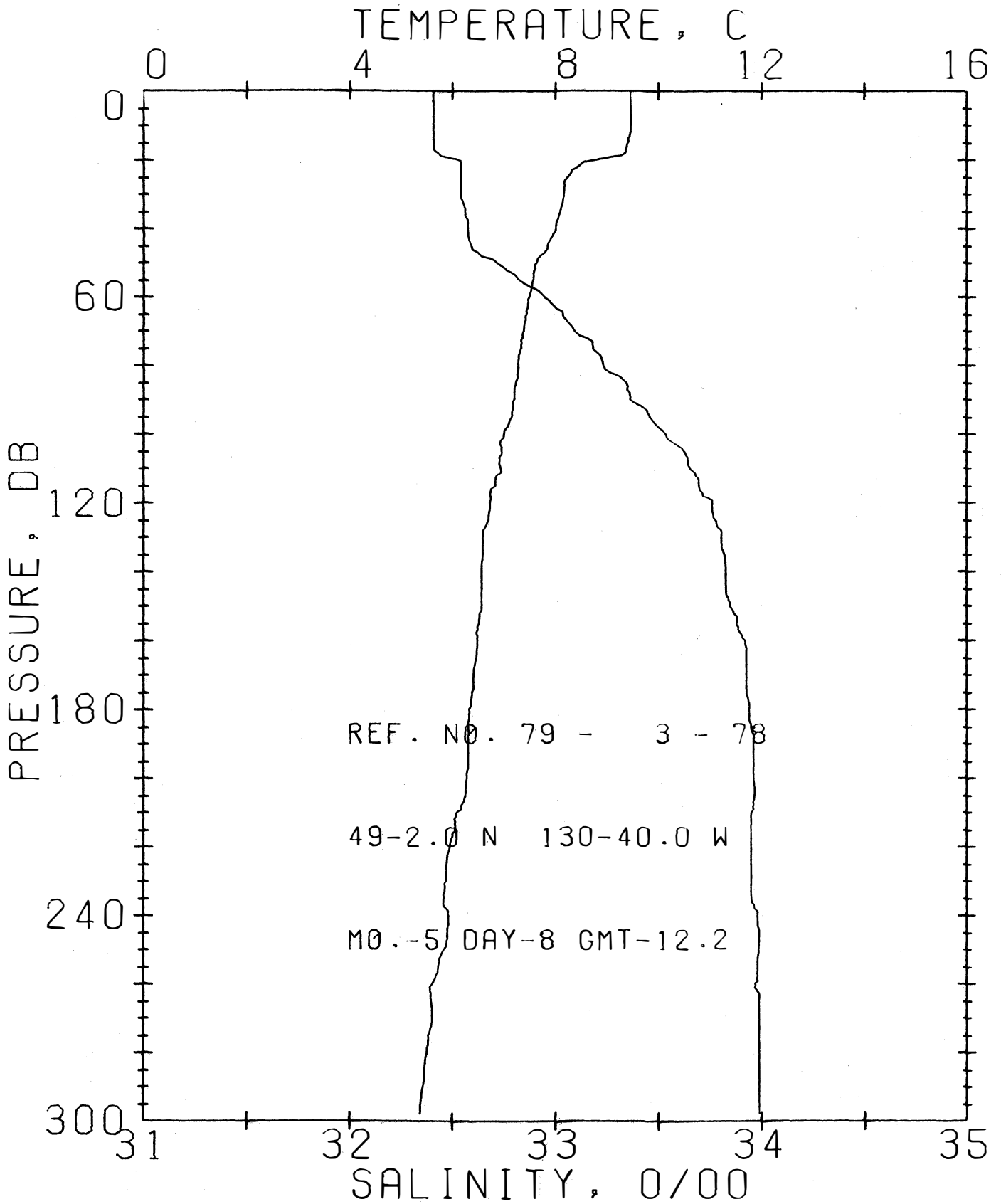
DATE 8/ 5/79

POSITION 49-10.0N, 132-40.0W GMT 5.0 STATION 7

RESULTS OF STP CAST 325 POINTS TAKEN FROM ANALOG TRACE

GUIDELINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	8.89	32.54	0	25.23	274.3	.00	.00	1483.
10	8.89	32.54	10	25.23	274.5	.27	.01	1483.
20	8.89	32.54	20	25.23	274.7	.55	.06	1483.
30	8.27	32.54	30	25.33	265.9	.82	.13	1481.
50	7.70	32.55	50	25.42	257.6	1.34	.34	1479.
75	8.12	32.72	75	25.49	251.1	1.98	.74	1482.
100	7.05	32.90	99	25.78	223.5	2.58	1.28	1478.
125	6.62	33.49	124	26.31	174.1	3.07	1.84	1478.
150	6.35	33.72	149	26.52	154.4	3.49	2.43	1477.
175	6.13	33.85	174	26.65	142.1	3.86	3.04	1477.
200	5.90	33.90	199	26.72	135.5	4.21	3.70	1476.
225	5.51	33.92	223	26.78	129.9	4.54	4.42	1475.
250	5.12	33.93	248	26.84	124.9	4.86	5.18	1474.
300	4.67	33.94	298	26.90	119.6	5.47	6.90	1473.
400	4.39	34.01	397	26.98	112.2	6.63	11.05	1474.
500	4.10	34.10	496	27.08	103.0	7.71	15.97	1474.
600	3.88	34.16	595	27.15	97.1	8.71	21.56	1475.
800	3.40	34.32	793	27.33	81.8	10.48	34.19	1476.
1000	3.04	34.40	990	27.42	73.1	12.03	48.36	1478.
1200	2.68	34.47	1188	27.51	65.4	13.41	63.83	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 78

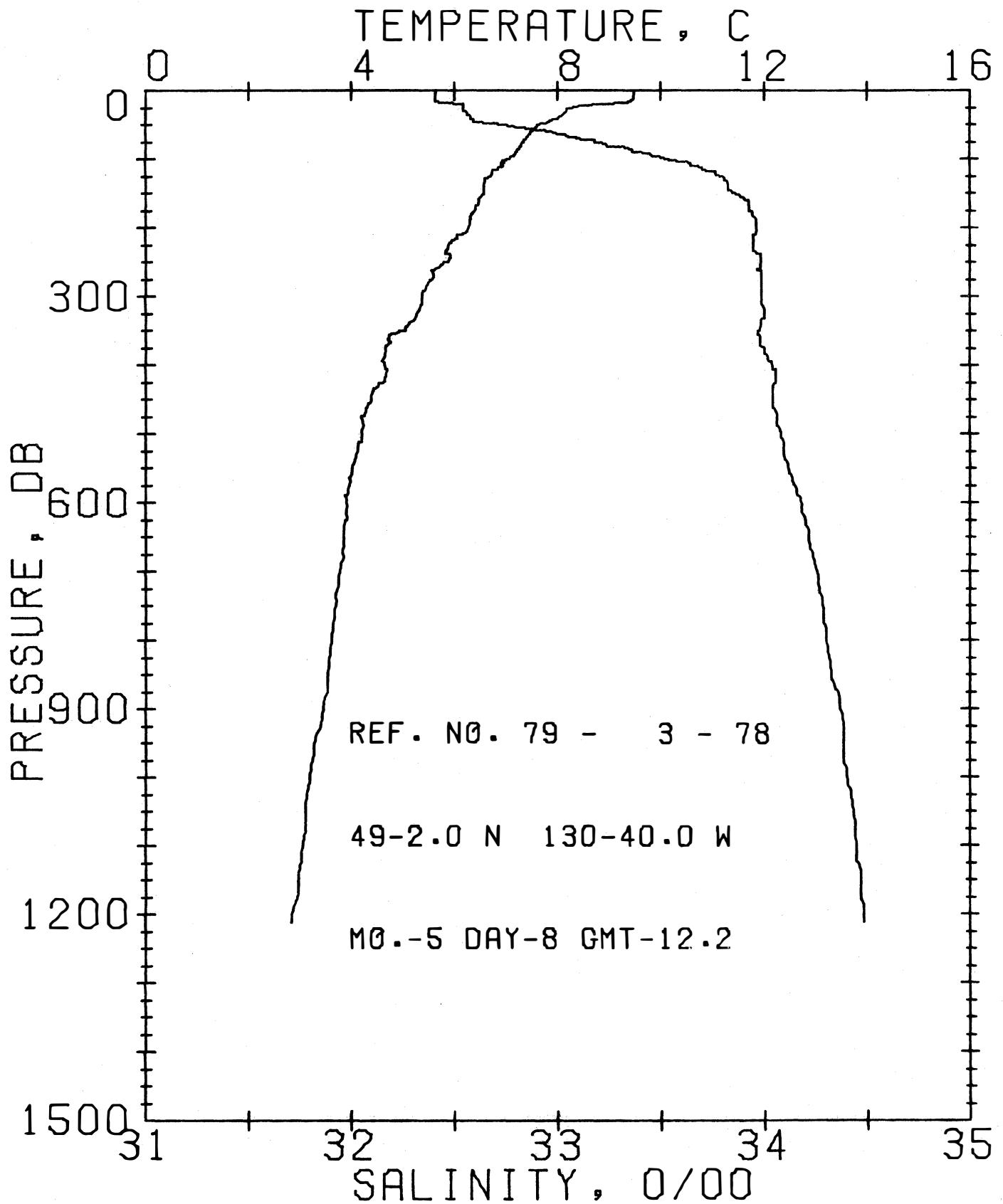
DATE 8/ 5/79

POSITION 49- 2.0N, 130-40.0W GMT 12.2 STATION 6

RESULTS OF STP CAST 198 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	9.47	32.41	0	25.04	292.7	.00	.00	1485.
10	9.47	32.41	10	25.04	292.9	.29	.01	1485.
20	8.83	32.54	20	25.24	273.8	.58	.06	1483.
30	8.15	32.54	30	25.35	264.2	.85	.13	1481.
40	8.00	32.57	40	25.39	260.0	1.11	.22	1480.
50	7.63	32.71	50	25.55	244.7	1.37	.34	1479.
60	7.48	32.95	60	25.76	225.0	1.60	.47	1479.
70	7.38	33.09	70	25.89	213.4	1.82	.61	1479.
80	7.28	33.23	80	26.01	201.8	2.03	.77	1479.
90	7.19	33.36	89	26.12	191.0	2.22	.94	1479.
100	6.99	33.53	99	26.29	175.9	2.40	1.12	1479.
110	6.93	33.65	109	26.39	166.3	2.57	1.30	1479.
120	6.72	33.76	119	26.50	155.5	2.73	1.49	1478.
130	6.59	33.81	129	26.56	150.3	2.89	1.68	1478.
140	6.56	33.83	139	26.58	148.6	3.04	1.89	1478.
150	6.57	33.85	149	26.59	147.3	3.19	2.11	1478.
160	6.48	33.92	159	26.66	141.1	3.33	2.33	1478.
170	6.41	33.93	169	26.68	139.5	3.47	2.57	1478.
180	6.33	33.94	179	26.70	138.0	3.61	2.82	1478.
190	6.30	33.96	189	26.72	136.2	3.75	3.08	1478.
200	6.26	33.96	199	26.72	135.9	3.88	3.35	1478.
210	6.05	33.95	209	26.74	134.1	4.02	3.63	1477.
	5.94	33.95	218	26.75	132.9	4.15	3.92	1477.
230	5.86	33.95	228	26.76	132.0	4.28	4.23	1477.
240	5.92	33.98	238	26.78	130.6	4.41	4.54	1477.
250	5.82	33.99	248	26.80	128.8	4.54	4.86	1477.
260	5.59	33.97	258	26.81	127.6	4.67	5.20	1476.
270	5.60	33.99	268	26.83	126.3	4.80	5.54	1477.
280	5.48	33.99	278	26.84	125.1	4.92	5.89	1476.
290	5.42	33.99	288	26.85	124.4	5.05	6.25	1476.
300	5.37	33.99	298	26.85	123.9	5.17	6.63	1476.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 78

DATE 8/ 5/79

POSITION 49- 2.0N, 130-40.0W

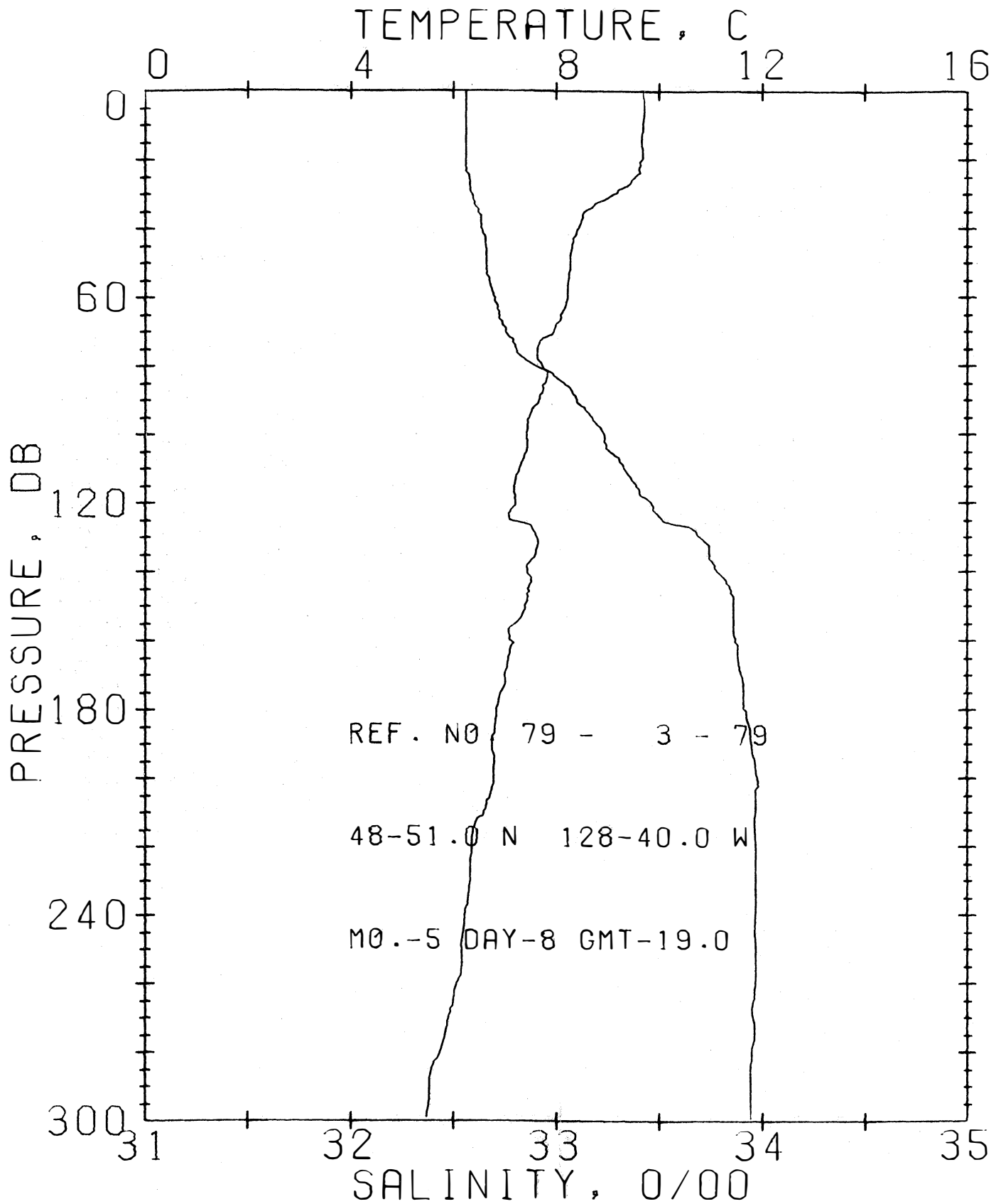
GMT 12.2

STATION 6

RESULTS OF STP CAST 386 POINTS TAKEN FROM ANALOG TRACE

GUIDELINE USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT.	SOUND
0	9.47	32.41	0	25.04	292.7	.00	.00	1485.
10	9.47	32.41	10	25.04	292.9	.29	.01	1485.
20	8.83	32.54	20	25.24	273.8	.58	.06	1483.
30	8.15	32.54	30	25.35	264.2	.85	.13	1481.
50	7.63	32.71	50	25.55	244.7	1.37	.34	1479.
75	7.33	33.18	75	25.96	206.1	1.92	.69	1479.
100	6.99	33.53	99	26.29	175.9	2.40	1.12	1479.
125	6.69	33.78	124	26.52	153.7	2.81	1.58	1478.
150	6.57	33.85	149	26.59	147.3	3.19	2.11	1478.
175	6.38	33.93	174	26.68	139.3	3.54	2.69	1478.
200	6.26	33.96	199	26.72	135.9	3.88	3.35	1478.
225	5.88	33.95	223	26.76	132.1	4.22	4.07	1477.
250	5.82	33.99	248	26.80	128.8	4.54	4.86	1477.
300	5.37	33.99	298	26.85	123.9	5.17	6.63	1476.
400	4.65	34.04	397	26.97	113.1	6.37	10.88	1475.
500	4.20	34.08	496	27.06	105.8	7.47	15.91	1475.
600	3.90	34.17	595	27.16	96.3	8.48	21.59	1475.
800	3.60	34.30	793	27.29	85.2	10.28	34.43	1477.
1000	3.18	34.40	990	27.42	74.3	11.87	48.93	1479.
1200	2.84	34.48	1188	27.51	66.1	13.27	64.61	1481.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 79

DATE 8/ 5/79

POSITION 48-51.0N, 128-40.0W

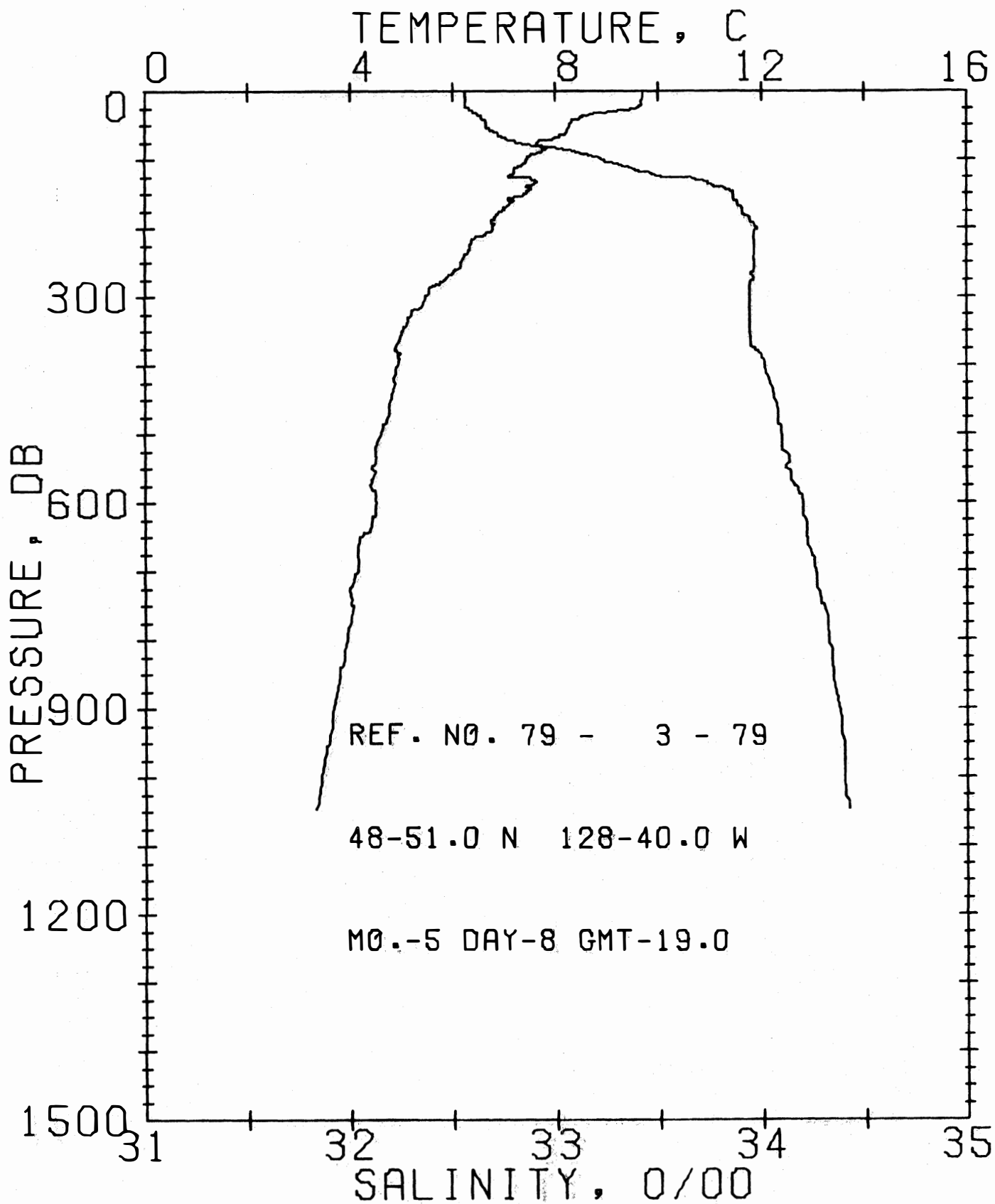
GMT 19.0

STATION 5

RESULTS OF STP CAST 210 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	9.69	32.56	0	25.12	284.9	.00	.00	1486.
10	9.69	32.56	10	25.12	285.1	.29	.01	1486.
20	9.68	32.56	20	25.12	285.2	.57	.06	1486.
30	9.17	32.59	30	25.23	275.3	.85	.13	1485.
40	8.43	32.63	40	25.38	261.2	1.12	.22	1482.
50	8.27	32.66	50	25.42	257.3	1.38	.34	1482.
60	8.21	32.70	60	25.46	253.6	1.63	.49	1482.
70	7.96	32.75	70	25.54	246.6	1.88	.65	1481.
80	7.72	32.90	80	25.69	232.2	2.12	.83	1480.
90	7.67	33.09	89	25.85	217.1	2.34	1.03	1481.
100	7.42	33.23	99	25.99	203.9	2.55	1.23	1480.
110	7.29	33.33	109	26.09	194.9	2.75	1.45	1480.
120	7.19	33.46	119	26.20	184.0	2.94	1.67	1480.
130	7.63	33.70	129	26.33	172.3	3.12	1.89	1482.
140	7.43	33.78	139	26.42	163.8	3.29	2.13	1481.
150	7.39	33.86	149	26.49	157.5	3.45	2.36	1482.
160	7.10	33.87	159	26.54	152.9	3.61	2.61	1481.
170	6.99	33.90	169	26.58	149.4	3.76	2.86	1480.
180	6.82	33.92	179	26.62	145.8	3.90	3.13	1480.
190	6.74	33.95	189	26.65	142.6	4.05	3.40	1480.
200	6.78	33.98	199	26.67	141.3	4.19	3.68	1480.
210	6.60	33.97	209	26.68	139.6	4.33	3.98	1480.
220	6.35	33.97	218	26.72	136.5	4.47	4.28	1479.
230	6.31	33.97	228	26.72	136.2	4.61	4.59	1479.
240	6.21	33.97	238	26.73	135.1	4.74	4.91	1478.
250	6.14	33.97	248	26.74	134.3	4.88	5.25	1478.
260	6.06	33.97	258	26.75	133.4	5.01	5.60	1478.
270	5.90	33.95	268	26.76	132.6	5.14	5.96	1478.
280	5.72	33.95	278	26.78	130.9	5.28	6.33	1477.
290	5.51	33.94	288	26.80	129.2	5.41	6.71	1476.
300	5.46	33.94	298	26.80	128.7	5.54	7.10	1476.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79-3-79

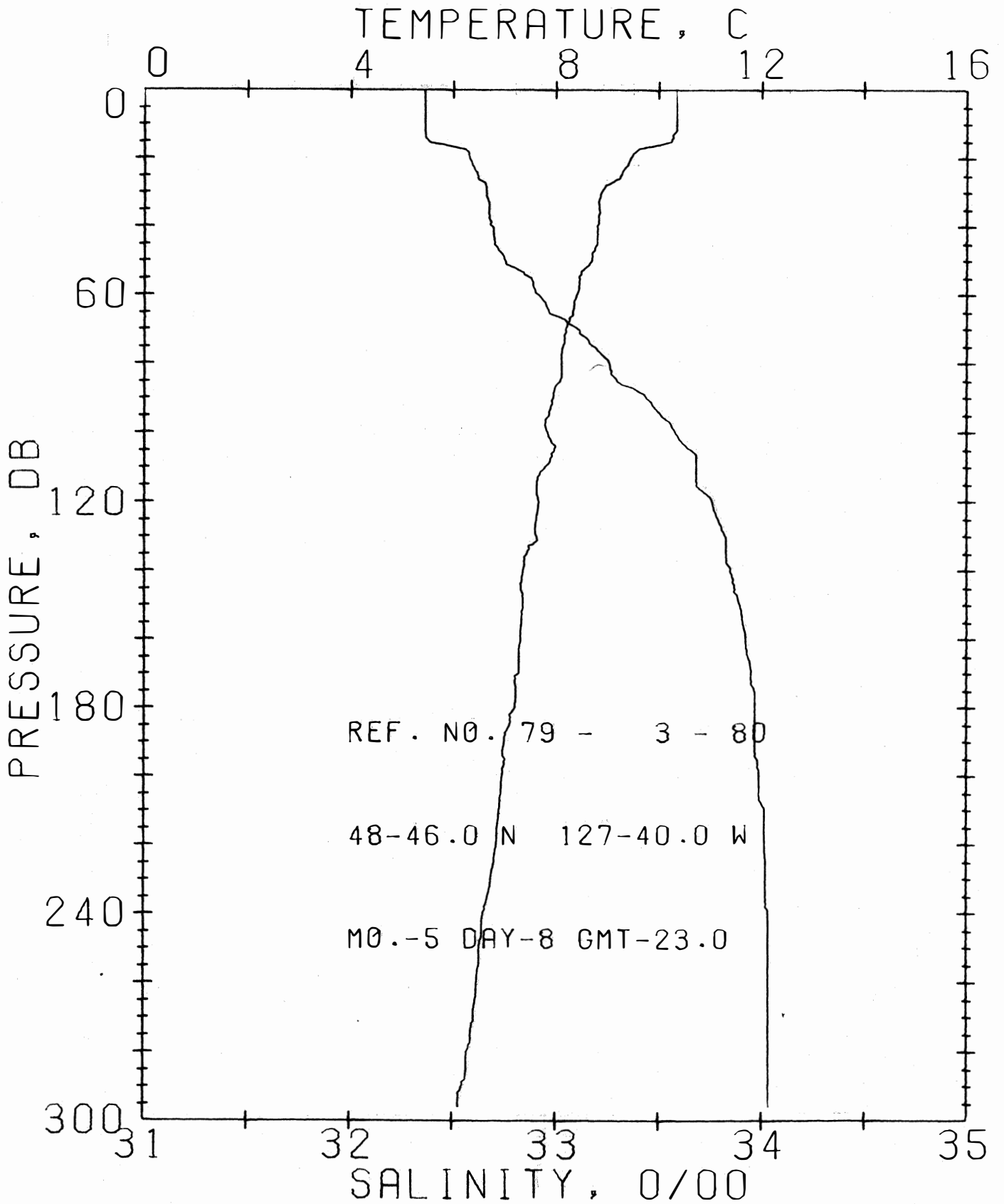
DATE 8/5/79

POSITION 48-51.0N, 128-40.0W GMT 19.0 STATION 5

RESULTS OF STP CAST 363 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DLPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	9.69	32.56	0	25.12	284.9	.00	.00	1486.
10	9.69	32.56	10	25.12	285.1	.29	.01	1486.
20	9.68	32.56	20	25.12	285.2	.57	.06	1486.
30	9.17	32.59	30	25.23	275.3	.85	.13	1485.
50	8.27	32.66	50	25.42	257.3	1.38	.34	1482.
75	7.62	32.81	75	25.63	237.5	2.00	.74	1480.
100	7.42	33.23	99	25.90	203.9	2.55	1.23	1480.
125	7.08	33.51	124	26.26	178.9	3.03	1.78	1479.
150	7.39	33.86	149	26.49	157.5	3.45	2.36	1482.
175	6.91	33.91	174	26.60	147.7	3.83	2.99	1480.
200	6.78	33.98	199	26.67	141.3	4.19	3.68	1480.
225	6.33	33.97	223	26.72	136.3	4.54	4.43	1479.
250	6.14	33.97	248	26.74	134.3	4.88	5.25	1478.
300	5.46	33.94	298	26.80	128.7	5.54	7.10	1476.
400	4.89	34.01	397	26.93	117.9	6.77	11.49	1476.
500	4.58	34.09	496	27.03	109.1	7.90	16.69	1476.
600	4.50	34.20	595	27.12	101.2	8.96	22.58	1478.
800	3.91	34.33	793	27.29	86.5	10.83	35.87	1479.
1000	3.41	34.40	991	27.39	77.2	12.45	50.76	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 80

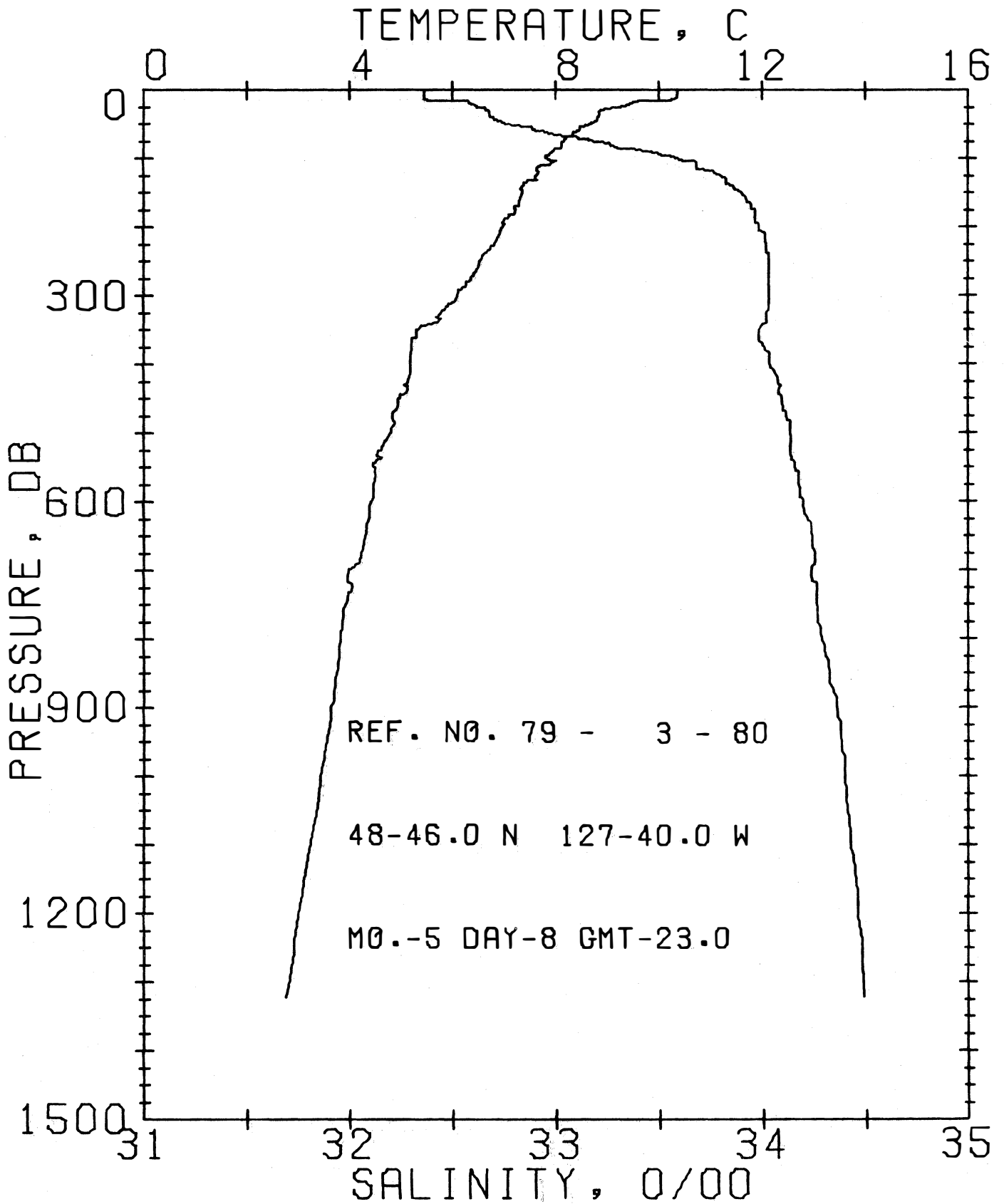
DATE 8/ 5/79

POSITION 48-46.0N, 127-40.0W GMT 23.0 STATION 4

RESULTS OF STP CAST 192 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	10.35	32.36	0	24.86	310.2	.00	.00	1488.
10	10.36	32.36	10	24.86	310.5	.31	.02	1488.
20	9.45	32.58	20	25.18	280.1	.61	.06	1486.
30	8.89	32.66	30	25.33	265.9	.88	.13	1484.
40	8.81	32.69	40	25.36	262.7	1.15	.23	1484.
50	8.69	32.75	50	25.43	256.7	1.41	.34	1483.
60	8.39	32.92	60	25.61	239.9	1.65	.48	1483.
70	8.18	33.11	70	25.79	222.9	1.89	.64	1482.
80	8.10	33.26	80	25.92	210.8	2.10	.80	1482.
90	7.94	33.44	89	26.08	195.3	2.31	.98	1482.
100	7.83	33.58	99	26.21	183.6	2.50	1.16	1482.
110	7.78	33.68	109	26.29	175.6	2.68	1.36	1482.
120	7.68	33.76	119	26.37	168.4	2.85	1.56	1482.
130	7.64	33.83	129	26.43	162.8	3.02	1.77	1482.
140	7.37	33.85	139	26.48	157.8	3.18	1.99	1481.
150	7.36	33.89	149	26.52	154.5	3.33	2.22	1481.
160	7.31	33.92	159	26.55	152.1	3.48	2.46	1481.
170	7.27	33.95	169	26.58	149.5	3.64	2.71	1481.
180	7.20	33.97	179	26.60	147.2	3.78	2.98	1481.
190	6.99	33.97	189	26.63	144.4	3.93	3.25	1481.
200	6.95	33.99	199	26.65	142.6	4.07	3.54	1481.
210	6.88	34.01	209	26.68	140.4	4.21	3.83	1481.
220	6.84	34.01	218	26.68	139.9	4.35	4.14	1481.
230	6.74	34.02	228	26.71	138.0	4.49	4.46	1480.
240	6.60	34.03	238	26.73	135.6	4.63	4.79	1480.
250	6.51	34.03	248	26.74	134.6	4.77	5.13	1480.
260	6.47	34.03	258	26.75	134.1	4.90	5.48	1480.
270	6.39	34.03	268	26.76	133.3	5.03	5.84	1480.
280	6.28	34.03	278	26.77	132.0	5.17	6.21	1479.
290	6.17	34.03	288	26.79	130.7	5.30	6.59	1479.
300	6.08	34.03	298	26.80	129.7	5.43	6.98	1479.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 80

DATE 8/ 5/79

POSITION 48-46.0N, 127-40.0W

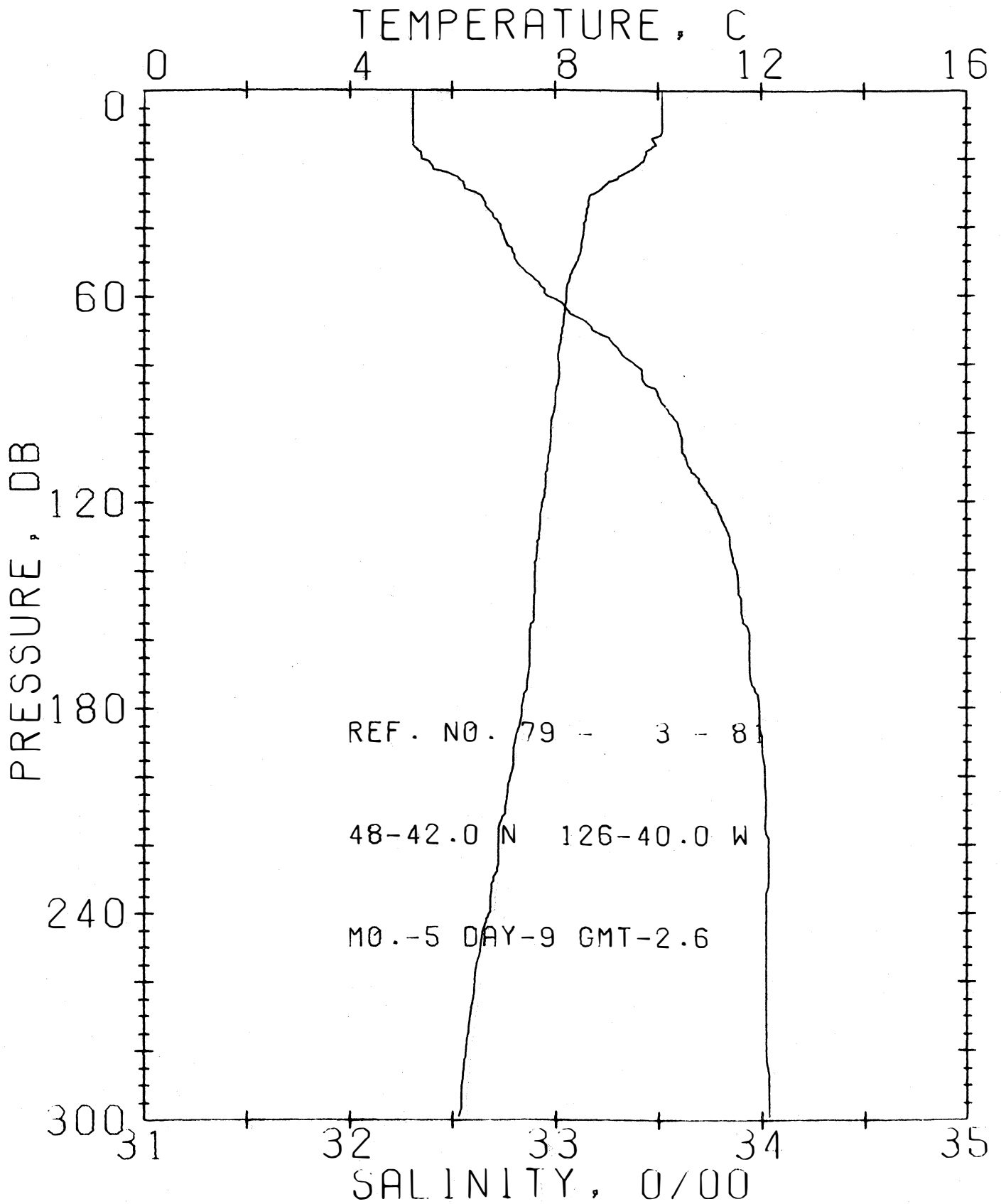
GMT 23.0

STATION 4

RESULTS OF STP CAST 372 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	10.35	32.36	0	24.86	310.2	.00	.00	1488.
10	10.36	32.36	10	24.86	310.5	.31	.02	1488.
20	9.45	32.58	20	25.18	280.1	.61	.06	1486.
30	8.89	32.66	30	25.33	265.9	.88	.13	1484.
50	8.69	32.75	50	25.43	256.7	1.41	.34	1483.
75	8.13	33.19	75	25.86	216.3	2.00	.72	1482.
100	7.83	33.58	99	26.21	183.6	2.50	1.16	1482.
125	7.62	33.79	124	26.40	165.7	2.93	1.66	1482.
150	7.36	33.89	149	26.52	154.5	3.33	2.22	1481.
175	7.23	33.97	174	26.60	147.5	3.71	2.84	1481.
200	6.95	33.99	199	26.65	142.6	4.07	3.54	1481.
225	6.80	34.02	223	26.70	138.7	4.42	4.30	1481.
250	6.51	34.03	248	26.74	134.6	4.77	5.13	1480.
300	6.08	34.03	298	26.80	129.7	5.43	6.98	1479.
400	5.17	34.03	397	26.91	119.5	6.67	11.41	1477.
500	4.79	34.13	496	27.03	108.8	7.81	16.61	1477.
600	4.41	34.19	595	27.12	100.9	8.85	22.46	1477.
800	3.82	34.29	793	27.26	88.7	10.73	35.84	1478.
1000	3.42	34.40	991	27.39	77.3	12.38	50.88	1480.
1200	2.99	34.46	1188	27.48	69.3	13.84	67.26	1482.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 81

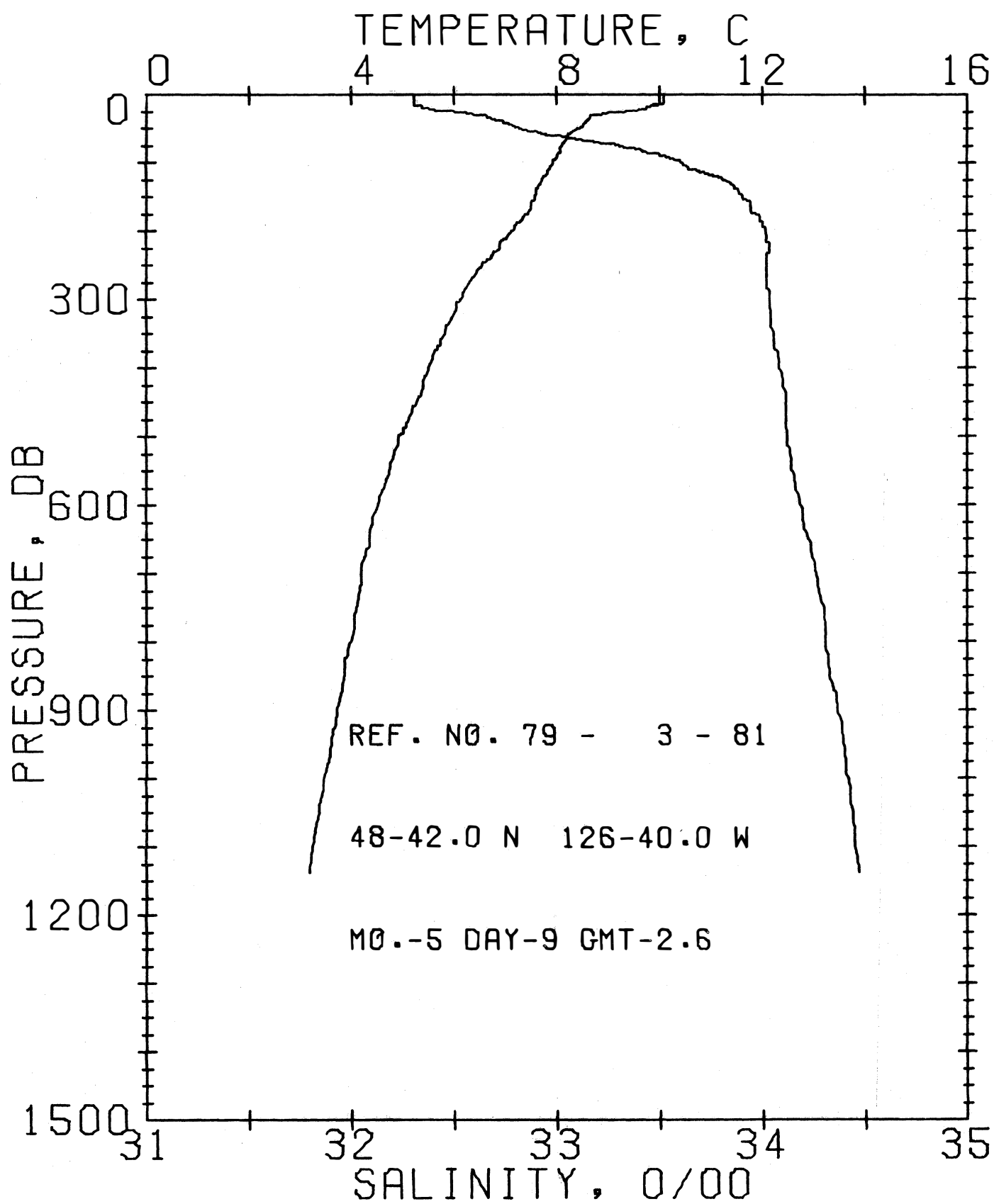
DATE 9/ 5/79

POSITION 48-42.0N, 126-40.0W GMT 2.6 STATION 3

RESULTS OF STP CAST 175 POINTS TAKEN FROM ANALOG TRACE

GUIDELINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	10.08	32.31	0	24.86	309.6	.00	.00	1487.
10	10.08	32.31	10	24.86	309.8	.31	.02	1487.
20	9.73	32.35	20	24.95	301.5	.62	.06	1486.
30	8.81	32.61	30	25.30	268.5	.90	.13	1483.
40	8.57	32.73	40	25.43	256.2	1.16	.23	1483.
50	8.44	32.81	50	25.51	248.5	1.41	.34	1483.
60	8.21	32.96	60	25.67	234.3	1.65	.48	1482.
70	8.14	33.18	70	25.85	217.2	1.88	.63	1482.
80	8.07	33.39	80	26.02	200.7	2.09	.79	1482.
90	8.00	33.51	89	26.12	191.4	2.28	.96	1482.
100	7.92	33.61	99	26.21	182.9	2.47	1.14	1482.
110	7.84	33.65	109	26.26	178.7	2.65	1.33	1482.
120	7.76	33.76	119	26.36	169.5	2.82	1.53	1482.
130	7.68	33.85	129	26.44	161.9	2.99	1.74	1482.
140	7.60	33.88	139	26.48	158.7	3.15	1.97	1482.
150	7.57	33.90	149	26.50	156.9	3.31	2.20	1482.
160	7.50	33.94	159	26.54	153.2	3.46	2.44	1482.
170	7.47	33.94	169	26.54	152.9	3.62	2.70	1482.
180	7.34	33.99	179	26.60	147.6	3.77	2.97	1482.
190	7.19	34.00	189	26.63	145.0	3.91	3.25	1482.
200	7.13	34.01	199	26.64	143.6	4.06	3.53	1482.
210	7.01	34.02	209	26.67	141.3	4.20	3.83	1481.
220	6.89	34.03	218	26.69	139.1	4.34	4.14	1481.
230	6.78	34.03	228	26.71	137.8	4.48	4.46	1481.
240	6.71	34.02	238	26.71	137.8	4.62	4.79	1481.
250	6.53	34.02	248	26.73	135.5	4.75	5.13	1480.
260	6.41	34.02	258	26.75	134.1	4.89	5.48	1480.
270	6.34	34.02	268	26.76	133.4	5.02	5.84	1480.
280	6.26	34.02	278	26.77	132.4	5.16	6.21	1479.
290	6.19	34.03	288	26.79	130.9	5.29	6.59	1479.
300	6.11	34.03	298	26.79	130.1	5.42	6.99	1479.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 81

DATE 9/ 5/79

POSITION 48-42.0N, 126-40.0W

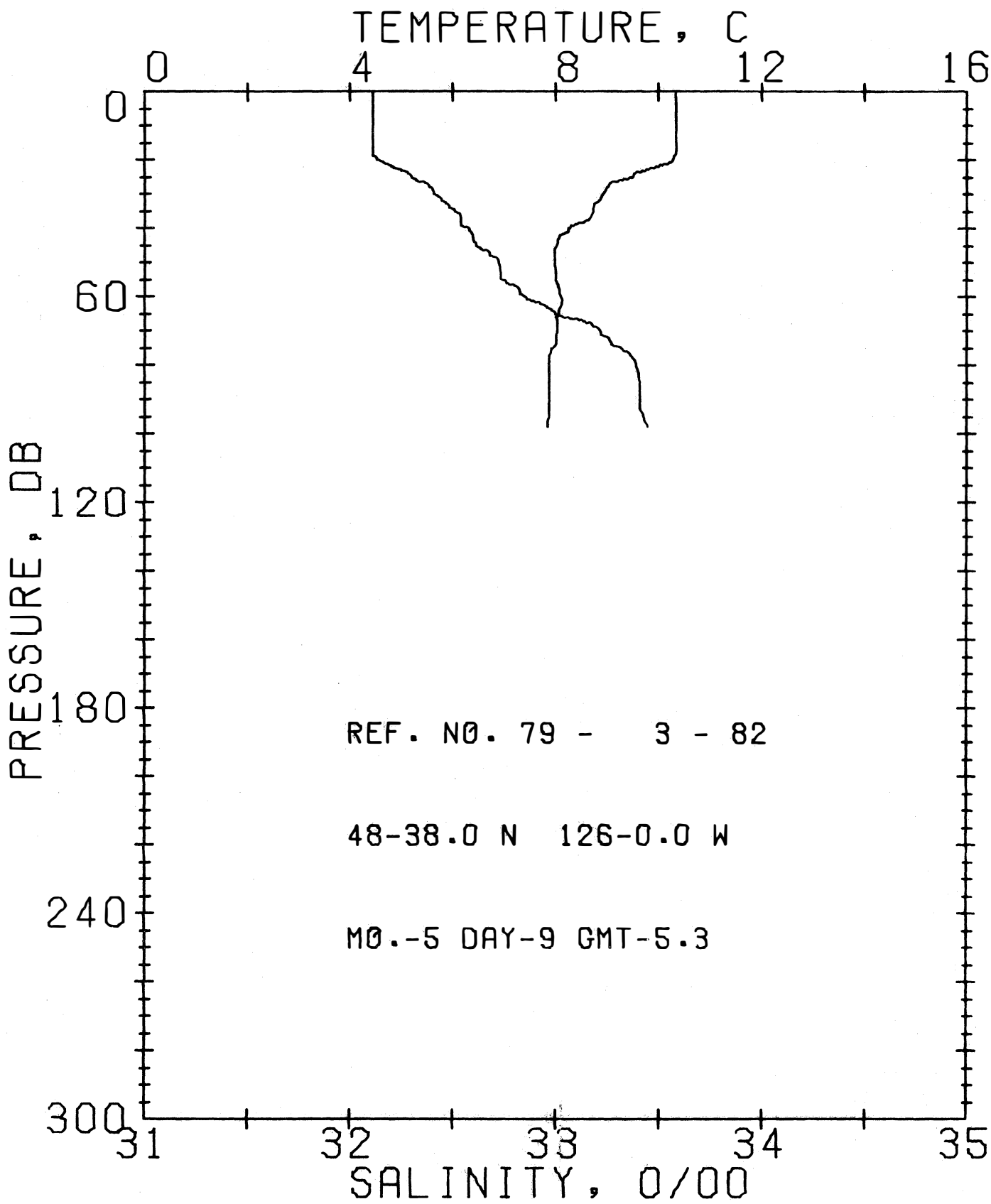
GMT 2.6

STATION 3

RESULTS OF STP CAST 317 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	10.08	32.31	0	24.86	309.6	.00	.00	1487.
10	10.08	32.31	10	24.86	309.8	.31	.02	1487.
20	9.73	32.35	20	24.95	301.5	.62	.06	1486.
30	8.81	32.61	30	25.30	268.5	.90	.13	1483.
50	8.44	32.81	50	25.51	248.5	1.41	.34	1483.
75	8.09	33.31	75	25.96	206.9	1.98	.70	1482.
100	7.92	33.61	99	26.21	182.9	2.47	1.14	1482.
125	7.71	33.81	124	26.40	165.2	2.91	1.64	1482.
150	7.57	33.90	149	26.50	156.9	3.31	2.20	1482.
175	7.43	33.97	174	26.57	150.2	3.69	2.84	1482.
200	7.13	34.01	199	26.64	143.6	4.06	3.53	1482.
225	6.89	34.03	223	26.69	139.2	4.41	4.30	1481.
250	6.53	34.02	248	26.73	135.5	4.75	5.13	1480.
300	6.11	34.03	298	26.79	130.1	5.42	6.99	1479.
400	5.50	34.08	397	26.91	120.0	6.67	11.45	1478.
500	4.91	34.12	496	27.01	111.0	7.82	16.74	1478.
600	4.50	34.18	595	27.11	102.4	8.90	22.74	1478.
800	3.98	34.31	793	27.26	88.8	10.79	36.21	1479.
1000	3.45	34.42	991	27.40	76.4	12.44	51.30	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 82

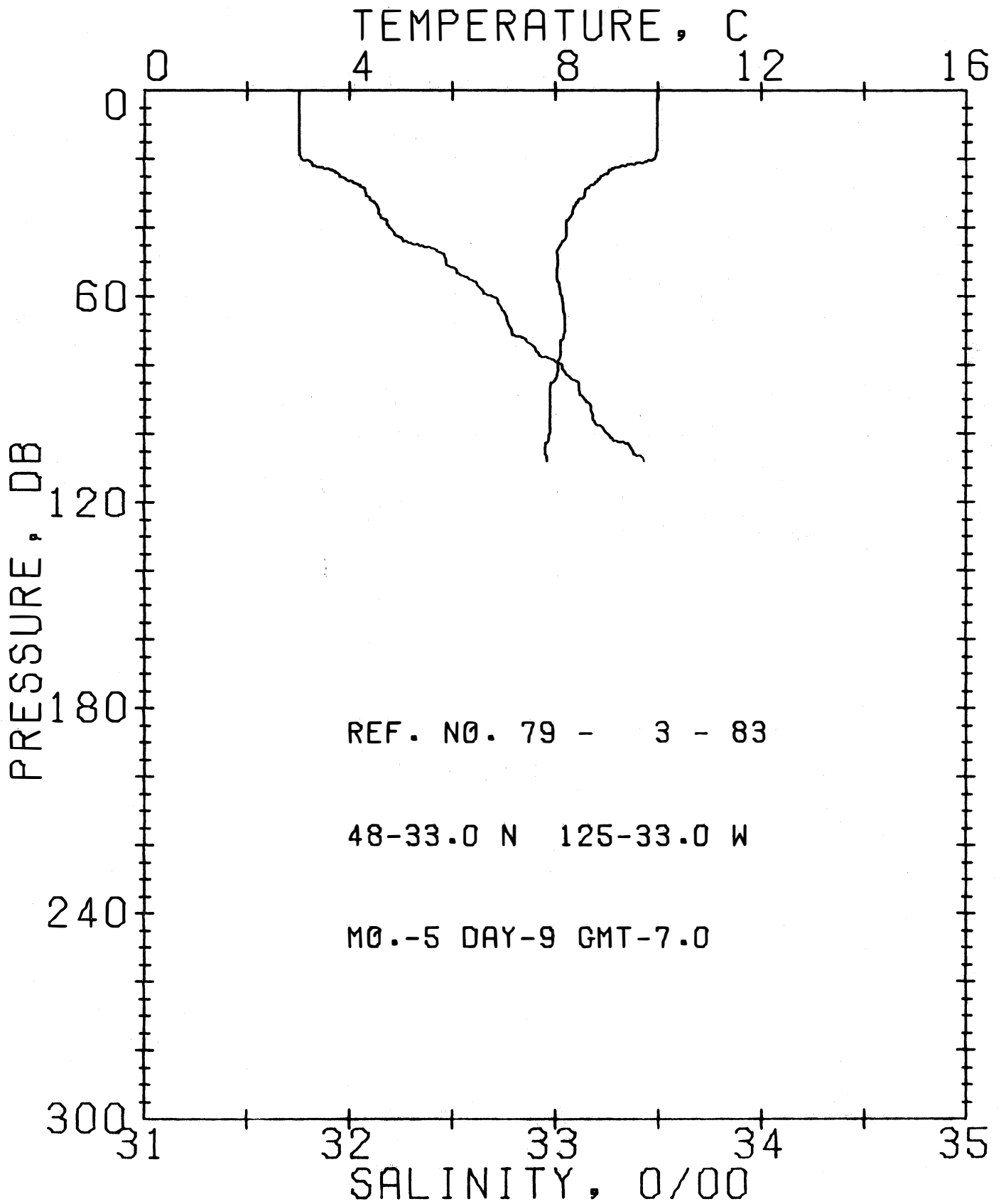
DATE 9/ 5/79

POSITION 48-38.0N; 126- .0W GMT 5.3 STATION 2

RESULTS OF STP CAST 66 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	10.33	32.11	0	24.67	328.4	.00	.00	1488.
10	10.35	32.11	10	24.66	328.9	.33	.02	1488.
20	10.26	32.13	20	24.69	326.1	.66	.07	1488.
30	8.92	32.41	30	25.13	284.9	.96	.14	1484.
40	8.25	32.58	40	25.36	262.8	1.23	.24	1481.
50	7.98	32.71	50	25.51	249.2	1.49	.36	1481.
60	8.11	32.85	60	25.59	241.1	1.74	.50	1482.
70	8.02	33.21	70	25.89	213.2	1.96	.65	1482.
80	7.88	33.38	80	26.05	198.4	2.17	.80	1482.
90	7.86	33.41	89	26.07	196.4	2.37	.97	1482.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 83

DATE 9/ 5/79

POSITION 48-33.0N, 125-33.0W GMT 7.0 STATION 1

RESULTS OF STP CAST 79 POINTS TAKEN FROM ANALOG TRACE
GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	9.97	31.75	0	24.45	349.3	.00	.00	1486.
10	9.98	31.75	10	24.45	349.6	.35	.02	1486.
20	9.93	31.76	20	24.46	348.3	.70	.07	1486.
30	8.59	32.07	30	24.92	304.9	1.02	.15	1482.
40	8.21	32.19	40	25.06	291.2	1.32	.26	1481.
50	8.05	32.47	50	25.31	268.3	1.60	.39	1481.
60	8.13	32.69	60	25.47	253.2	1.86	.53	1481.
70	8.18	32.79	70	25.54	246.7	2.11	.70	1482.
80	8.05	33.03	80	25.74	227.2	2.34	.88	1482.
90	7.90	33.14	89	25.85	217.1	2.57	1.07	1482.
100	7.88	33.25	99	25.94	208.8	2.78	1.28	1482.



Surface Salinity and Temperature Observations

(P-79-3)

SURFACE SALINITY AND TEMPERATURE OBSERVATIONS
 CRUISE REFERENCE NUMBER 79- 3

DATE/TIME				SALINITY	TEMP	LONGITUDE
YR	MO	DY	GMT	0/00	C	WEST
79	3	23	1800	31.005		123-30
79	3	23	1920	31.356		124- 0
79	3	23	2045	31.352		124-30
79	3	23	2155	30.951		125- 0
79	3	23	2330	32.024	10.4	125-33
79	3	24	100	31.377		126- 0
79	3	24	312	32.461	9.2	126-40
79	3	24	640	32.555	9.2	127-40
79	3	24	1000	32.488		128-40
79	3	24	1612	32.553	7.8	130-40
79	3	24	2230	32.493	7.5	132-40
79	3	25	420	32.468	7.4	134-40
79	3	25	1100	32.461	7.4	136-40
79	3	25	1800	32.552	7.2	138-40
79	3	26	210	32.630	6.8	140-40
79	3	26	902	32.603	6.2	142-40
79	3	26	2100	32.601	5.9	145- 0
79	3	27	0	32.600	5.8	ON STATION
79	3	28	0	32.599	5.8	ON STATION
79	3	29	0	32.599	6.1	ON STATION
79	3	30	0	32.603	6.1	ON STATION
79	3	31	0	32.608	6.2	ON STATION
79	4	1	0	32.600	6.0	ON STATION
79	4	2	0	32.592	6.2	ON STATION
79	4	3	0	32.592	6.4	ON STATION
79	4	4	0	32.596	6.5	ON STATION
79	4	5	0	32.592	6.6	ON STATION
79	4	6	0	32.737	6.4	ON STATION
79	4	7	0	32.600*	6.3	ON STATION
79	4	8	0	32.619*	6.3	ON STATION
79	4	9	0	32.607*	6.2	ON STATION
79	4	10	0	32.604	6.2	ON STATION
79	4	11	0	32.607	6.3	ON STATION
79	4	12	0	32.591	6.2	ON STATION
79	4	13	0	32.587	6.2	ON STATION
79	4	14	0	32.590	6.5	ON STATION
79	4	15	0	32.574	6.5	ON STATION
79	4	16	0	32.621	6.2	ON STATION
79	4	17	0	32.588	6.5	ON STATION
79	4	18	0	32.485	6.4	ON STATION
79	4	19	0	32.582	6.6	ON STATION
79	4	20	0	32.323	6.5	ON STATION
79	4	21	0	32.590	6.7	ON STATION
79	4	22	0	32.584	6.5	ON STATION

SURFACE SALINITY AND TEMPERATURE OBSERVATIONS
 CRUISE REFERENCE NUMBER 79- 3

DATE/TIME				SALINITY	TEMP	LONGITUDE
YR	MO	DY	GMT	0/00	C	WEST
79	4	23	0	32.584	6.5	ON STATION
79	4	24	0	32.584	6.5	ON STATION
79	4	25	0	32.589	6.7	ON STATION
79	4	26	0	32.457	6.7	ON STATION
79	4	27	0	32.588	6.8	ON STATION
79	4	28	0	32.422	6.8	ON STATION
79	4	29	0	32.596	7.0	ON STATION
79	4	30	0	32.459	7.1	ON STATION
79	5	1	0	32.447	6.8	ON STATION
79	5	2	0	32.508	7.2	ON STATION
79	5	3	0	32.596	7.7	ON STATION
79	5	4	0	32.469	7.5	ON STATION
79	5	5	0	32.604	7.4	ON STATION
79	5	6	0	32.596	7.7	145- 0
79	5	6	2100	32.597	7.4	142-40
79	5	7	250	32.596	8.2	140-40
79	5	7	915	32.550	8.1	138-40
79	5	7	1548	32.431	8.2	136-40
79	5	7	2230	32.472	8.1	134-40
79	5	8	540	32.481	8.8	132-40
79	5	8	1212	32.355	9.6	130-40
79	5	8	1900	32.498	9.8	128-40
79	5	8	2340	32.284	10.3	127-40
79	5	9	530	32.060	10.6	126- 0
79	5	9	700	31.720	10.1	125-33
79	5	9	900	29.492*		125- 0
79	5	9	1020	29.965*		124-30
79	5	9	1146	29.406*		124- 0
79	5	9	1320	31.484*		123-30

* DENOTES SALINITY SAMPLE TAKEN FROM A
 BUCKET. ALL OTHER SAMPLES TAKEN FROM
 THE SEAWATER LOOP