

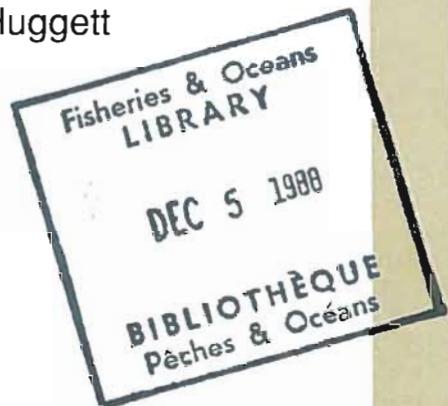
**WATER PROPERTY OBSERVATIONS
FROM THE NORTH COAST OCEANIC
DYNAMICS EXPERIMENT
(NCOPE): MAY 1983 - DECEMBER 1985
VOLUME 1**

by

R.E. Thomson, W.R. Crawford, and W.S. Huggett

Institute of Ocean Sciences
Department of Fisheries and Oceans
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1988



**CANADIAN DATA REPORT OF
HYDROGRAPHY AND OCEAN SCIENCES
NO. 67(1)**



Pêches
et Océans

Canada

Canadian Data Report Of Hydrography and Ocean Sciences

These reports provide a medium for the documentation and dissemination of data in a form directly useable by the scientific and engineering communities.

Generally, the reports will contain raw and/or analyzed data but will not contain interpretations of the data. Such compilations will commonly have been prepared in support of work related to the programs and interests of the Ocean Science and Surveys (OSS) sector of the Department of Fisheries and Oceans.

Data Reports are produced regionally but are numbered and indexed nationally. Requests for individual reports will be fulfilled by the issuing establishment listed on the front cover and title page. Out of stock reports will be supplied for a fee by commercial agents.

Regional and headquarters establishments of Ocean Science and Surveys ceased publication of their various report series as of December 1981. A complete listing of these publications and the last number issued under each title are published in the *Canadian Journal of Fisheries and Aquatic Sciences*, Volume 38: Index to Publications 1981. The current series began with Report Number 1 in January 1982.

Rapport statistique canadien sur l'hydrographie et les sciences océaniques

Ces rapports servent de véhicule pour la compilation et la diffusion des données sous une forme directement utilisable par les scientifiques et les techniciens.

En général, les rapports contiennent des données brutes ou analysées mais ne fournissent pas d'interprétations des données. Ces compilations sont préparées le plus souvent à l'appui de travaux reliés aux programmes et intérêts du service des Sciences et Levés océaniques (SLO) du ministère des Pêches et des Océans.

Les rapports statistiques sont produits à l'échelon régional mais sont numérotés et placés dans l'index à l'échelon national. Les demandes de rapports seront satisfaites par l'établissement auteur dont le nom figure sur la couverture et la page de titre. Les rapports épuisés seront fournis contre rétribution par des agents commerciaux.

Les établissements des Sciences et Levés océaniques dans les régions et à l'administration centrale ont cessé de publier leurs diverses séries de rapports depuis décembre 1981. Vous trouverez dans l'index des publications du volume 38 du *Journal canadien des sciences halieutiques et aquatiques*, la liste de ces publications ainsi que le dernier numéro paru dans chaque catégorie. La nouvelle série a commencé avec la publication du Rapport n° 1 en janvier 1982.

Canadian Data Report of Hydrography and Ocean Sciences No.67(1)

1988

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EXPERIMENT (NCODE) : MAY 1983 - DECEMBER 1985

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Cat. No. Fs 97-16/67 ISSN 0711-6721

Correct citation for this publication:

Thomson, R.E., W.R. Crawford and W.S. Huggett. 1988. Water property observations from the North Coast Oceanic Dynamics Experiment (NCODE): May 1983 - December 1985. Can. Data Rep. Hydrogr. Ocean Sci. 67: (Volume 1) 315p.

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ABSTRACT

Thomson, R.E., W.R. Crawford and W.S. Huggett. 1988 Water property observations from the North Coast Oceanic Dynamics Experiment (NCOPE): May 1983 - December 1985. Can. Data Rep. Hydrogr. Ocean Sci. 67: (7 Vols.).

This report presents listings of water property data collected during the North Coast Oceanic Dynamics Experiment (NCOPE). Listings include temperature, salinity, density, sound speed and dynamic height anomaly based on CTD profiles together with temperature, salinity and dissolved oxygen content obtained from water samples.

Key words: Queen Charlotte Islands; British Columbia Coast.

RÉSUMÉ

Thomson, R.E., W.R. Crawford and W.S. Huggett. 1988. Water property observations from the North Coast Oceanic Dynamics Experiment (NCOPE): May 1983 - December 1985. Can. Data Rep. Hydrogr. Ocean Sci. 67: (7 Vols.).

Le présent rapport fournit des listes de données sur les propriétés de l'eau recueillies au cours de l'Expérience sur la côte nord de la Colombie-Britannique. Les listes renferment des données sur la température, la salinité, la densité, la vitesse du son et l'anomalie géopotentielle, basées sur les profils de CTP de même que des données sur la température, la salinité et la teneur en oxygène dissous obtenues à partir d'échantillons d'eau.

Mots-clés: Îles de la Reine-Charlotte; côte de la Colombie-Britannique.

ACKNOWLEDGEMENTS

We wish to thank the officers and crews of the CSS Parizeau and CFAV Endeavour for their cooperation during the CTD and mooring operations of the experiment. We also acknowledge the technical staffs of Ocean Physics and Tides and Currents Sections who enthusiastically participated in the cruises, including: J. Love, B. Minkley, C. de Jong, F. Hermiston, R. Bigham, D. English and F. Stephenson. Computational and drafting assistance was kindly provided by J. Linguanti, D. Francis, M. Cannon and P. Kimber.

INTRODUCTION

The North Coast Oceanic Dynamics Experiment is a cooperative Institute of Ocean Sciences investigation of the circulation and water property variability off the north coast of British Columbia. Particular emphasis is on the spatial and temporal structure of the currents along the west coast of the Queen Charlotte Islands and within Dixon Entrance and Hecate Strait. Moored arrays of current meters, pressure gauges and wind stations formed the core of the field program. Observations of the temperature, salinity and dissolved oxygen fields encompassing the moored arrays were obtained during quasi-synoptic ship surveys.

The purpose of this report is to make available the CTD and Niskin bottle data obtained during ship surveys that covered the moored arrays. The times of the CTD surveys are summarized in Table 1. The station positions for each cruise are presented in a map preceding the data set. Data from moored instruments will be presented in subsequent reports.

Table 1. Summary of oceanographic ship surveys during the North Coast Oceanic Dynamics Experiment.

CRUISE ID	SURVEY PERIOD
83-10	3-19 May, 1983
83-11	10-15 July, 1983
83-12	7-26 September, 1983
84-10	11-24 January, 1984
84-11	11-26 April, 1984
84-14	14-31 October, 1984
85-10	26 June - 9 July, 1985
85-14	5-8 December, 1985

CTD OBSERVATIONS

Profiles of water properties were obtained using a 8700-series Guildline CTD lowered from the stern of the research vessel via a 5/16" (8 mm) diameter, 7-conductor armorgraph cable. Output from the probe consisted of analogue voltages of temperature, conductivity and pressure calibrated for the full-scale ranges of 0 to 25°C, 0 to 40‰ and 0 to 1500 dbar, respectively. The probe output was connected to a Guildline deck unit where part of the signal was converted to temperature, salinity and pressure values for plotting on calibrated graph paper. These traces provided real-time displays of the temperature and salinity profiles and served as back-up to the tape storage system. The remaining branch of the output signal was input into a 2100-series HP computer, digitized

at a rate of 10 samples per second and stored on a 9-track magnetic tape through a HP7970B digital unit. For variable rates of probe descent from 0.5 to 1.5 ms⁻¹ this yielded vertical scale resolutions of order 10 cm. As well as being recorded on tape, digitized records were converted and listed every 5 m on a high speed printer. This allowed real-time monitoring of tape recorded data and enabled the operator to safely lower the probe to within a few metres of the seafloor. (On the continental shelf, the probe was usually lowered until it touched bottom, as indicated by a sudden slackening of the CTD wire.) During each cruise, the absolute zero-depth voltage offset was established with the temperature and conductivity sensors a few centimetres below the sea surface in flat calm conditions. The offset was subtracted from subsequent pressure voltages.

Following each cruise, the raw voltages were converted to temperature, salinity and pressure and the data edited. For combined CTD and hydro cast stations, standard depth values were compared and correction curves for the CTDs determined. Although the standard deviations were significant in most cases the mean correction curves were generally within the manufacturer's specified accuracies for temperature, salinity and pressure of ±0.03°C, ±0.05‰ (parts per thousand) and ±1%, respectively. The variances are in part attributable to the presence of vertical property gradients, especially at depths shallower than 150 m. In the present report, all corrections to temperature and salinity profiles are based on careful laboratory calibrations taken before each cruise.

NISKIN BOTTLE OBSERVATIONS

Rosette and hydro-cast observations using 1.7 litre Niskin bottles at standard depths were obtained at a selected number of CTD stations. Reversing thermometers attached to each water bottle were given 5 minutes to reach in situ temperatures prior to release of the messenger; bottles deeper than 250 m carried both protected and unprotected thermometers so that depths could be calculated. Water samples were drawn immediately after each cast.

Dissolved oxygen samples were drawn into 125 mL flasks and immediately pickled. Samples were analyzed within 24 hours of collection using a micro-Winkler technique (de Jong, 1974) which, for the typical range of upper layer values of 4 to 6 mL/L within the main region, gave accuracies better than 1%. Dissolved oxygen values are listed with the hydro data following each set of CTD listings.

DATA FORMAT

The cruise survey data are arranged in chronological order according to cruise number with CTD data followed by hydro (Niskin bottle) data. Each survey is identified by a title page giving the cruise number, month and year. This is followed by a map of the oceanographic stations occupied during the cruise. The facing page provides "keys" to the information written on the diagrams and in the header of the listings, together with the symbols and units for the various oceanic parameters.

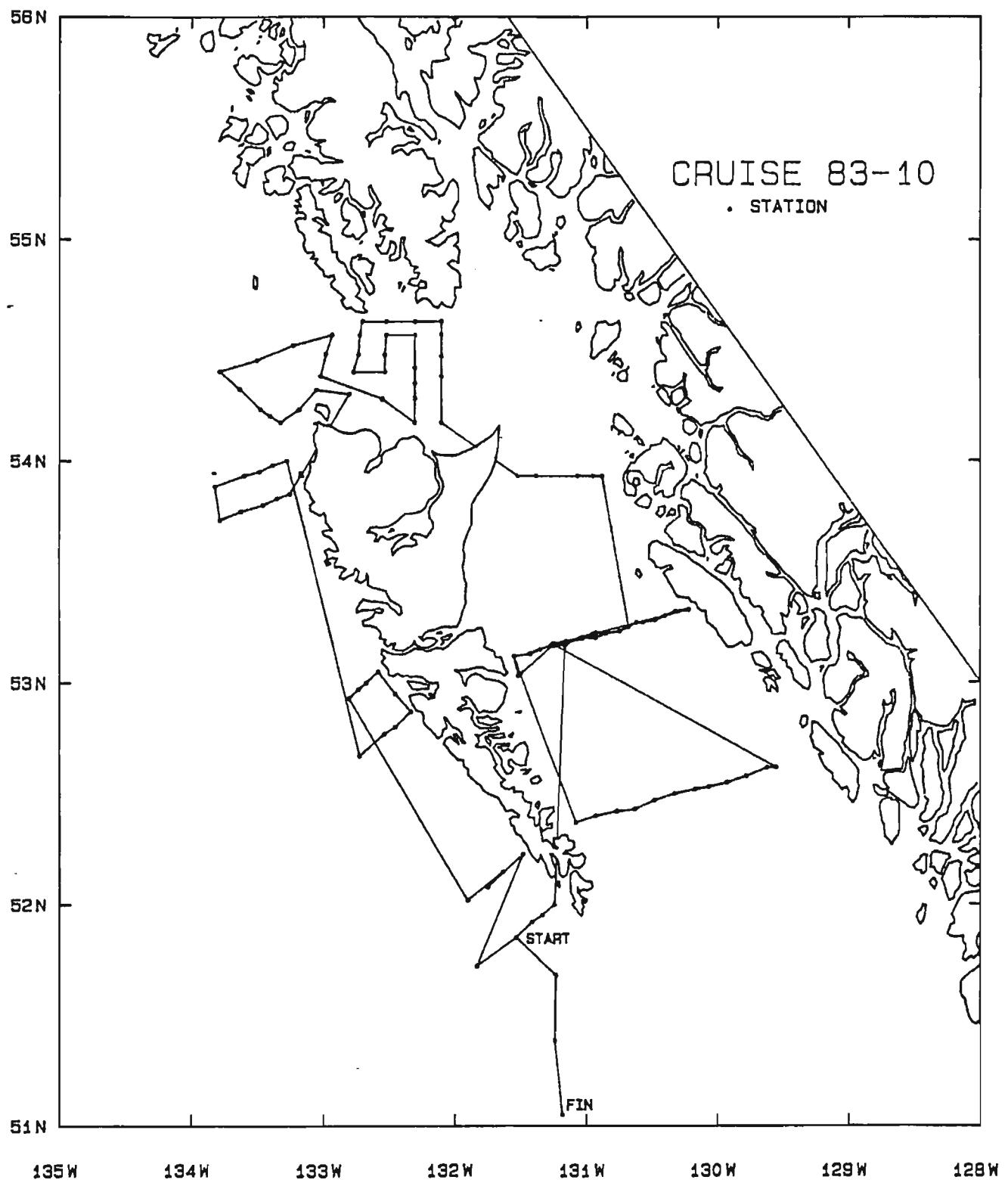
Individual CTD casts are presented in chronological order. Each cast occupies two pages. On the left hand (even numbered) page are plots of the calibrated temperature and salinity profiles while on the right hand (odd numbered) page are listings of observed and derived oceanographic quantities. Salinity increases and temperature decreases with depth in the northeast Pacific so that each is easily identified within a given plot. The listings are for standard hydrographic depths. In the header are the cruise identification, the station name, the consecutive number of the cast, the latitude and longitude, the date (year, month, day) and the time (Pacific Standard Time = GMT - 8 hours). The number of "points" in the header refers to the number of 1-metre averaged depths obtained during a given cast.

The CTD data are followed by a listing of the temperature, salinity and dissolved oxygen values from the Niskin bottle samples.

REFERENCES

de Jong, C. 1974. Reference manual for oceanographic technicians on the weatherships, unpublished manuscript, Dept. of the Environment, Marine Sciences Branch, 248 p.

CRUISE 83-10
3 -19 MAY 1983



NORTH COAST OCEANIC DYNAMICS EXPERIMENT

Key to information written on Plot pages and Listing pages.

PLOT PAGE

Ref. No. Year-Month-Station Consecutive Number
Latitude (°N) Longitude (°W)
Month Day Time (GMT)*

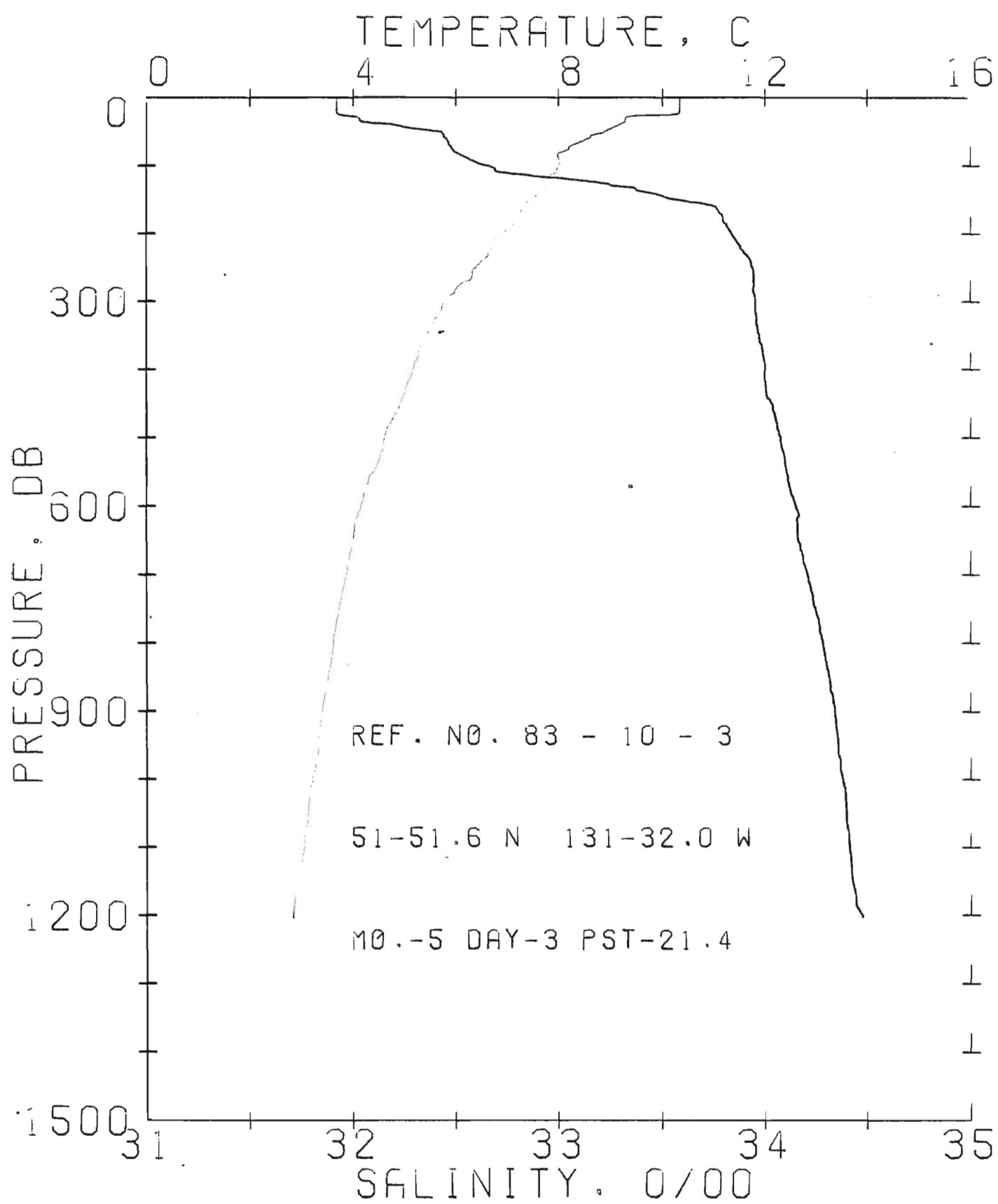
*PST = GMT - 8 hours

LISTING PAGE

Ref. No. Year-Month-Station Reference Number Date (D/Mo/Yr)
Position Latitude (°N) Longitude (°W) GMT (Hours) Station ID
Results of STP Cast ...Number of 1-metre averaged points
taken from digital system... Guildline (CTP) was used...
Pressures (in db) are input

PARAMETERS, SYMBOLS, UNITS

DEPTH: DEPTH in metres
TEMPERATURE: TEMP in degrees Celcius
SALINITY: SAL in grams per kilogram
SIGMA-T: SIG-T (dimensionless)
SPECIFIC VOLUME ANOMALY: SVA in $10^{\text{Exp}(-5)} \cdot \text{cm}^3/\text{gram}$
GEOPOTENTIAL ANOMALY: DELTA-D in Joules/Kilogram
POTENTIAL ENERGY: POT. EN. in $10^{\text{Exp}(8)} \text{Ergs/cm}^2$
SPEED OF SOUND: SOUND in metres/second



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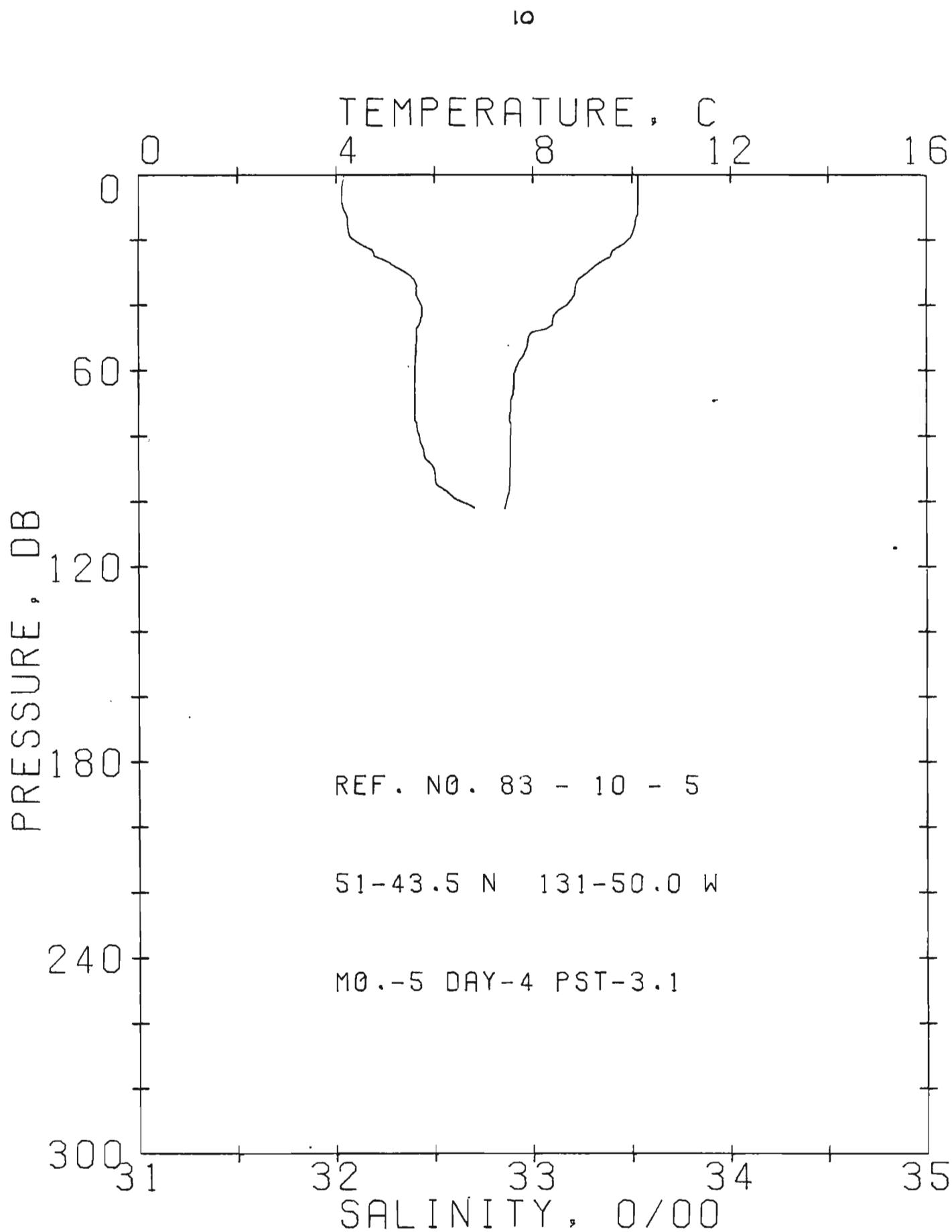
REFERENCE NO. 83-10- 3 DATE 3/ 5/83

POSITION 51-51.6N, 131-32.0W 21.4 STATION J 2

RESULTS OF STP CAST 1204 POINTS TAKEN FROM DIGITAL SYSTEM

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	10.34	31.93	0	24.52	342.2	.00	.00	1488.
10	10.34	31.92	10	24.52	342.5	.34	.02	1488.
20	10.35	31.92	20	24.52	342.7	.68	.07	1488.
30	9.30	32.03	30	24.78	318.5	1.02	.15	1484.
50	8.90	32.44	50	25.15	283.0	1.63	.40	1484.
75	8.22	32.48	75	25.29	270.1	2.31	.84	1482.
100	8.01	32.66	99	25.46	254.1	2.97	1.42	1482.
125	7.86	33.21	124	25.91	211.9	3.57	2.10	1482.
150	7.47	33.58	149	26.26	179.3	4.05	2.78	1481.
175	7.20	33.80	174	26.47	160.0	4.47	3.47	1481.
200	6.90	33.84	199	26.54	153.1	4.86	4.22	1480.
225	6.67	33.89	223	26.62	146.3	5.23	5.03	1480.
250	6.39	33.94	248	26.69	139.5	5.59	5.89	1479.
300	5.84	33.95	298	26.77	132.3	6.27	7.80	1478.
400	5.18	34.00	397	26.89	121.9	7.54	12.31	1477.
500	4.62	34.08	496	27.01	110.6	8.71	17.66	1476.
600	4.17	34.15	595	27.12	100.8	9.77	23.60	1476.
800	3.63	34.29	793	27.28	86.5	11.65	36.97	1477.
1000	3.23	34.38	990	27.40	76.3	13.28	51.84	1479.
1200	2.84	34.48	1188	27.51	66.1	14.72	68.02	1481.



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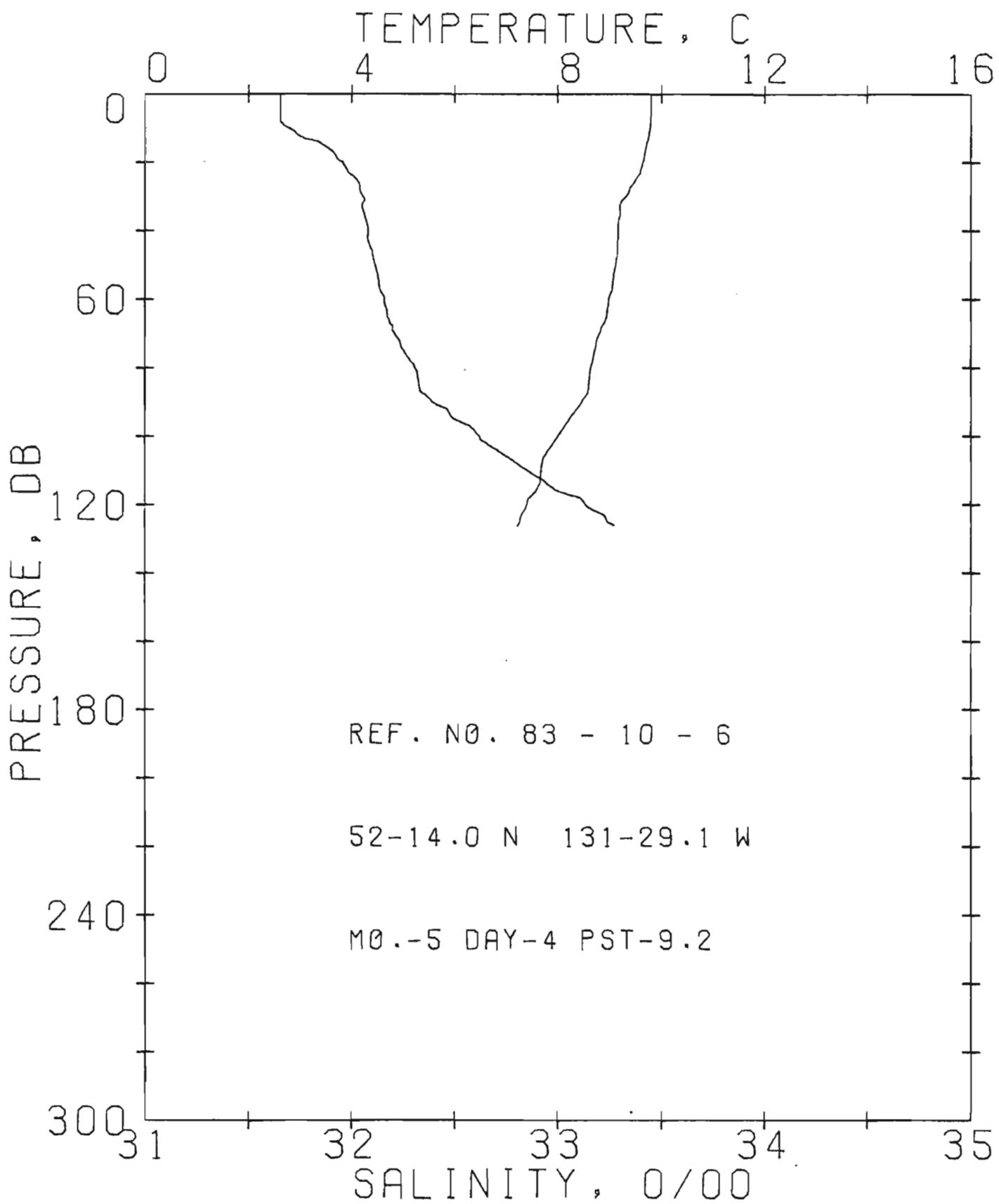
REFERENCE NO. 83-10- 5 DATE 4/ 5/83

POSITION 51-43.5N, 131-50.0W 3.1 STATION J 3

RESULTS OF STP CAST 103 POINTS TAKEN FROM DIGITAL SYSTEM

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	10.13	32.04	0	24.65	330.1	.00	.00	1487.
10	10.13	32.04	10	24.64	330.7	.33	.02	1487.
20	9.93	32.10	20	24.73	323.2	.66	.07	1487.
30	9.12	32.36	30	25.06	291.7	.97	.15	1484.
50	7.92	32.41	50	25.28	270.8	1.53	.37	1480.
75	7.52	32.40	75	25.33	266.6	2.20	.80	1479.
100	7.47	32.64	99	25.52	248.9	2.85	1.38	1479.



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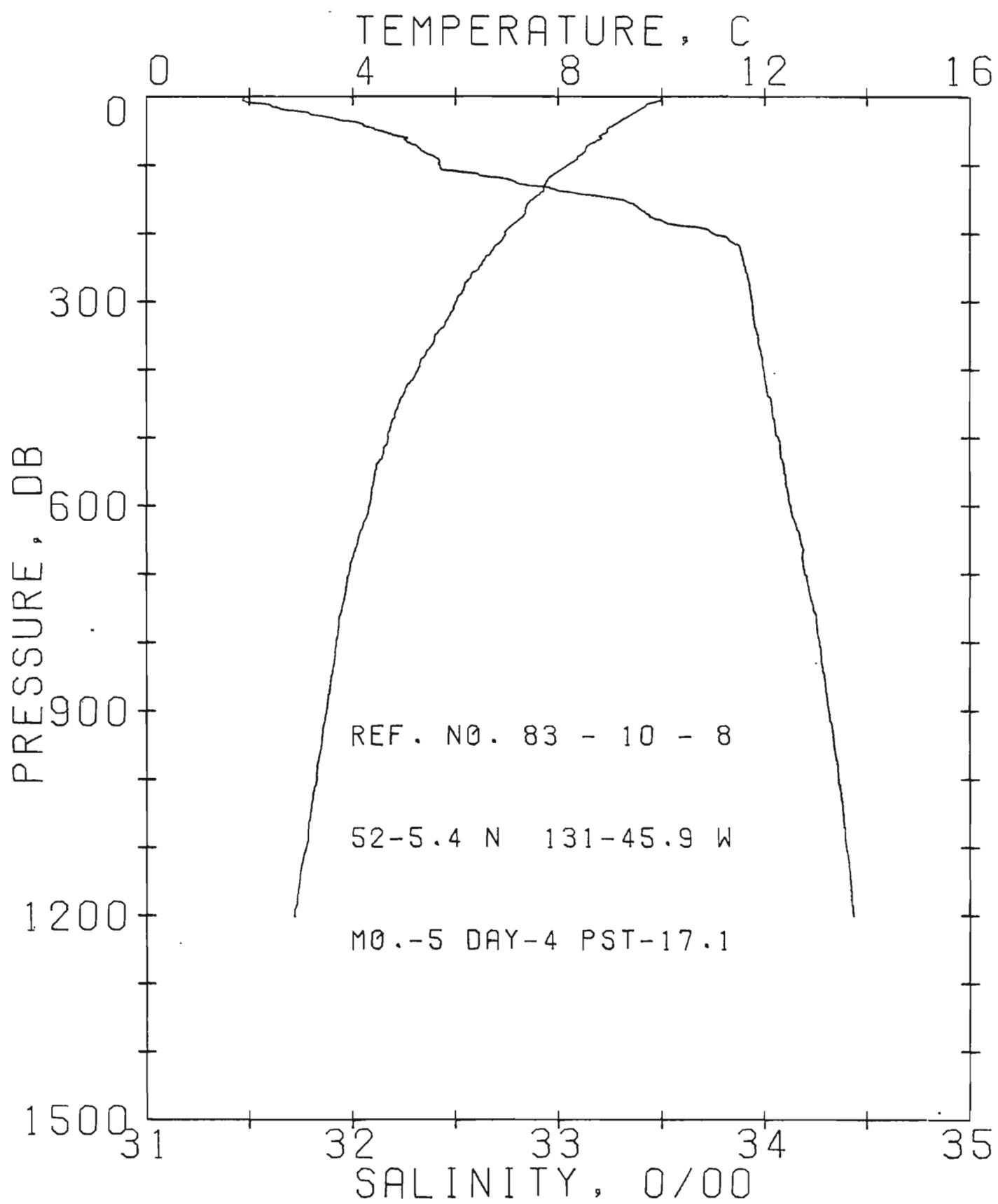
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POSITION 52-14.0N, 131-29.1W 9.2 STATION Q 3

RESULTS OF STP CAST 127 POINTS TAKEN FROM DIGITAL SYSTEM

GUIDELINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	9.80	31.66	0	24.40	353.6	.00	.00	1485.
10	9.79	31.70	10	24.44	350.1	.35	.02	1486.
20	9.63	31.96	20	24.67	328.8	.69	.07	1485.
30	9.32	32.06	30	24.79	316.8	1.01	.15	1485.
50	9.13	32.12	50	24.87	310.1	1.64	.41	1484.
75	8.72	32.26	75	25.04	294.2	2.40	.89	1483.
100	8.00	32.62	99	25.43	257.0	3.10	1.51	1481.
125	7.27	33.24	124	26.02	201.5	3.67	2.16	1480.



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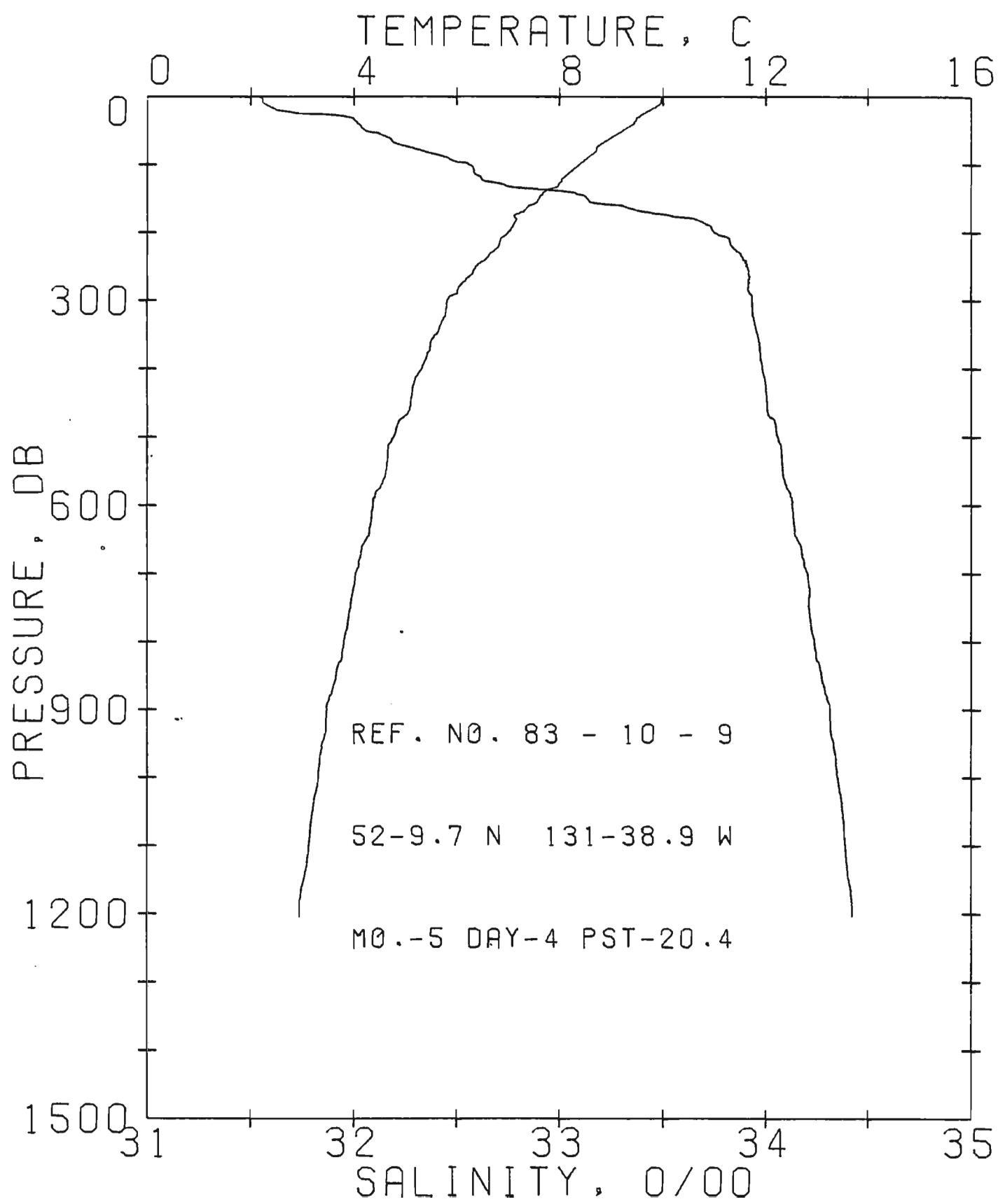
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POSITION 52- 5.4N, 131-45.9W 17.1 STATION Q 6

RESULTS OF STP CAST 1202 POINTS TAKEN FROM DIGITAL SYSTEM

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	10.02	31.47	0	24.22	370.6	.00	.00	1486.
10	9.71	31.59	10	24.37	357.1	.37	.02	1485.
20	9.55	31.73	20	24.50	344.8	.72	.07	1485.
30	9.33	31.91	30	24.67	328.5	1.06	.16	1484.
50	8.98	32.16	50	24.92	305.0	1.69	.41	1484.
75	8.55	32.33	75	25.12	286.1	2.43	.88	1483.
100	8.19	32.43	99	25.25	274.2	3.12	1.51	1482.
125	7.78	32.80	124	25.60	241.3	3.77	2.24	1481.
150	7.48	33.32	149	26.05	198.7	4.33	3.02	1481.
175	7.33	33.44	174	26.17	187.9	4.81	3.82	1481.
200	6.98	33.76	199	26.46	160.4	5.24	4.64	1481.
225	6.72	33.88	223	26.60	147.7	5.62	5.47	1480.
250	6.48	33.91	248	26.65	143.1	5.98	6.34	1480.
300	6.02	33.94	298	26.74	135.5	6.68	8.29	1479.
400	5.28	34.00	397	26.87	123.5	7.97	12.90	1477.
500	4.71	34.07	496	26.99	112.3	9.15	18.28	1477.
600	4.33	34.13	595	27.08	104.4	10.23	24.34	1477.
800	3.69	34.27	793	27.26	88.4	12.14	37.93	1478.
1000	3.30	34.36	990	27.37	78.7	13.81	53.21	1479.
1200	2.88	34.44	1188	27.47	69.9	15.29	69.77	1481.



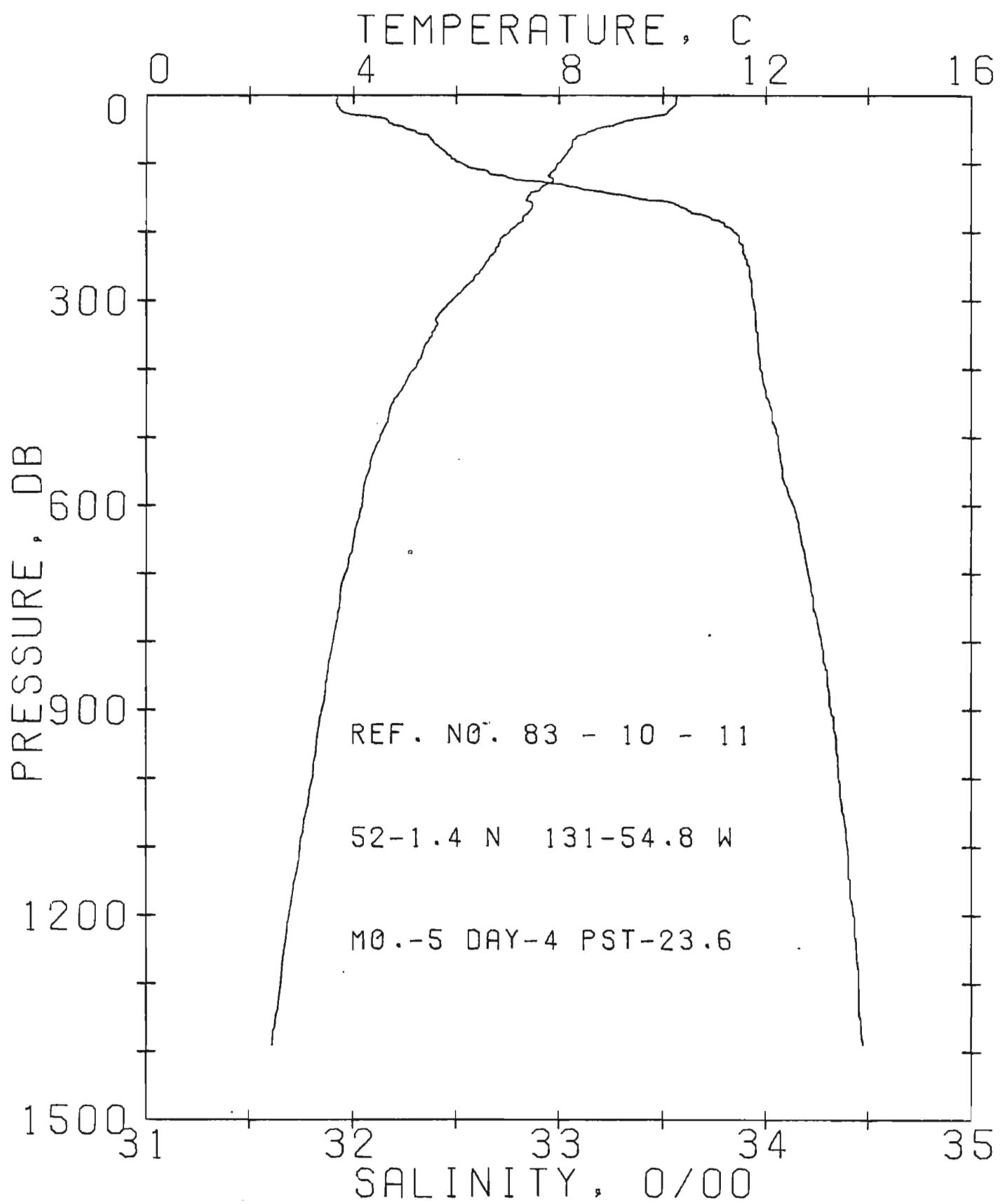
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REFERENCE NO. 83-10- 9 DATE 4/ 5/83

POSITION 52- 9.7N, 131-38.9W 20.4 STATION Q 5

RESULTS OF STP CAST 1204 POINTS TAKEN FROM DIGITAL SYSTEM
GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	9.99	31.55	0	24.29	364.5	.00	.00	1486.
10	9.96	31.57	10	24.31	362.8	.36	.02	1486.
20	9.74	31.65	20	24.41	353.5	.72	.07	1485.
30	9.52	31.99	30	24.70	325.4	1.06	.16	1485.
50	9.23	32.07	50	24.81	315.2	1.70	.42	1485.
75	8.73	32.29	75	25.07	291.7	2.46	.90	1483.
100	8.39	32.56	99	25.33	266.8	3.16	1.52	1483.
125	8.04	32.66	124	25.46	254.9	3.81	2.27	1482.
150	7.61	33.14	149	25.89	214.0	4.39	3.08	1481.
175	7.11	33.55	174	26.29	177.0	4.88	3.90	1480.
200	7.01	33.75	199	26.46	161.0	5.30	4.69	1481.
225	6.76	33.86	223	26.57	150.4	5.69	5.53	1480.
250	6.38	33.91	248	26.67	141.6	6.05	6.41	1479.
300	5.83	33.93	298	26.75	133.7	6.74	8.34	1478.
400	5.33	33.98	397	26.86	125.0	8.04	12.96	1478.
500	4.79	34.06	496	26.98	113.9	9.24	18.45	1477.
600	4.39	34.13	595	27.08	105.1	10.33	24.59	1477.
800	3.82	34.24	793	27.22	92.1	12.30	38.53	1478.
1000	3.33	34.35	990	27.36	79.7	13.99	54.07	1480.
1200	2.95	34.42	1188	27.45	71.5	15.50	70.91	1481.



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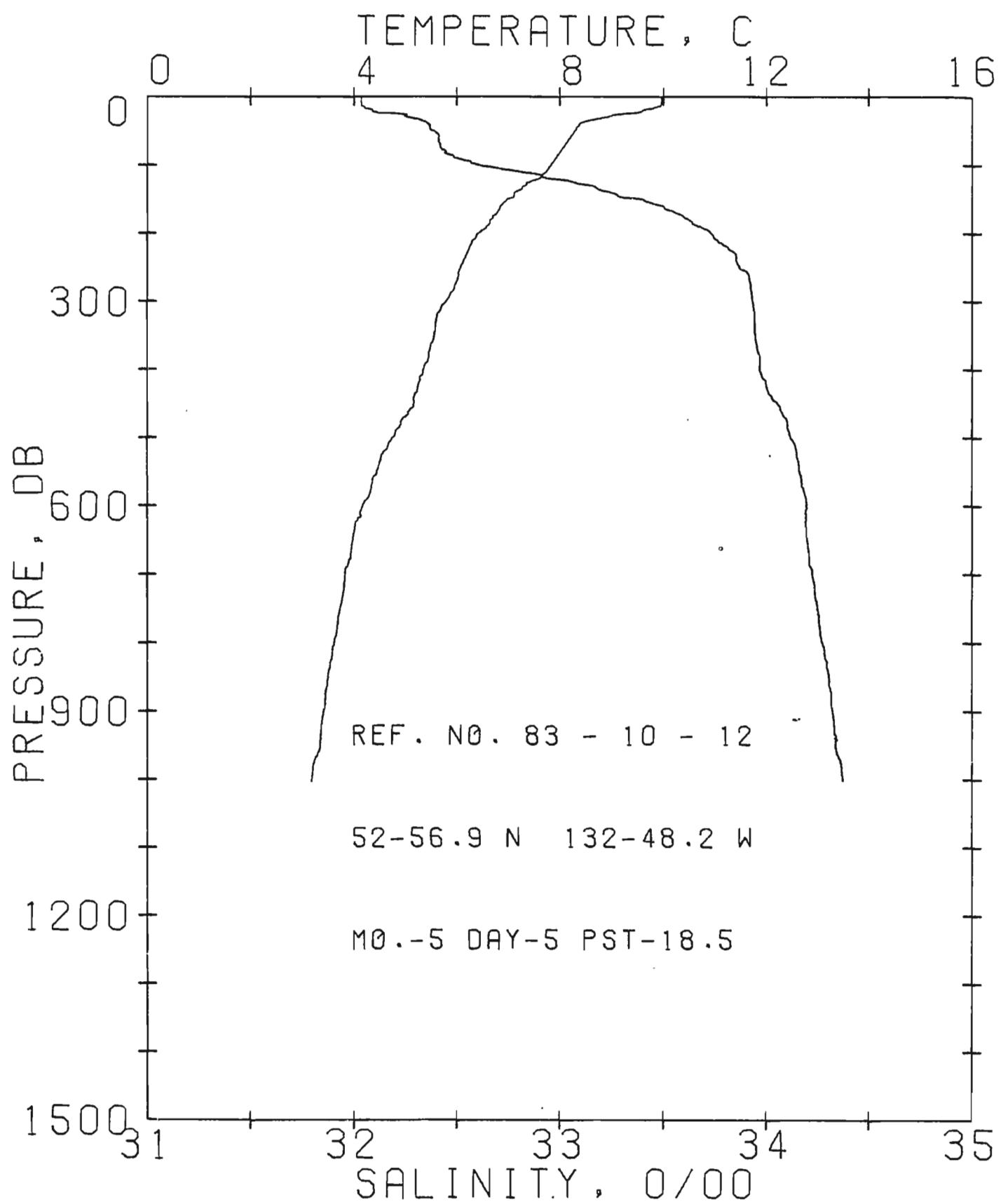
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POSITION 52- 1.4N, 131-54.8W 23.6 STATION Q 7

RESULTS OF STP CAST 372 POINTS TAKEN FROM DIGITAL SYSTEM

GUILDLINE WAS USED,PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	10.26	31.93	0	24.54	340.8	.00	.00	1487.
10	10.26	31.92	10	24.53	341.7	.34	.02	1488.
20	10.15	31.94	20	24.56	338.7	.68	.07	1487.
30	9.82	32.09	30	24.73	322.5	1.02	.15	1486.
50	8.72	32.27	50	25.05	292.8	1.63	.40	1483.
75	8.26	32.42	75	25.24	275.4	2.33	.85	1482.
100	7.98	32.53	99	25.37	263.3	3.01	1.45	1481.
125	7.91	32.87	124	25.64	237.8	3.64	2.17	1482.
150	7.39	33.37	149	26.10	193.9	4.17	2.92	1481.
175	7.34	33.70	174	26.37	169.1	4.62	3.66	1482.
200	7.05	33.85	199	26.53	154.3	5.02	4.43	1481.
225	6.78	33.89	223	26.60	148.1	5.40	5.25	1480.
250	6.54	33.92	248	26.65	143.1	5.76	6.13	1480.
300	5.93	33.94	298	26.75	134.4	6.46	8.08	1478.
400	5.20	33.97	397	26.86	124.3	7.75	12.66	1477.
500	4.53	34.06	496	27.01	110.8	8.92	18.01	1476.
600	4.19	34.14	595	27.11	102.1	9.99	24.00	1476.
800	3.63	34.27	793	27.27	87.4	11.87	37.40	1477.
1000	3.22	34.36	990	27.37	78.2	13.51	52.45	1479.
1200	2.76	34.43	1188	27.48	68.8	14.98	68.86	1481.



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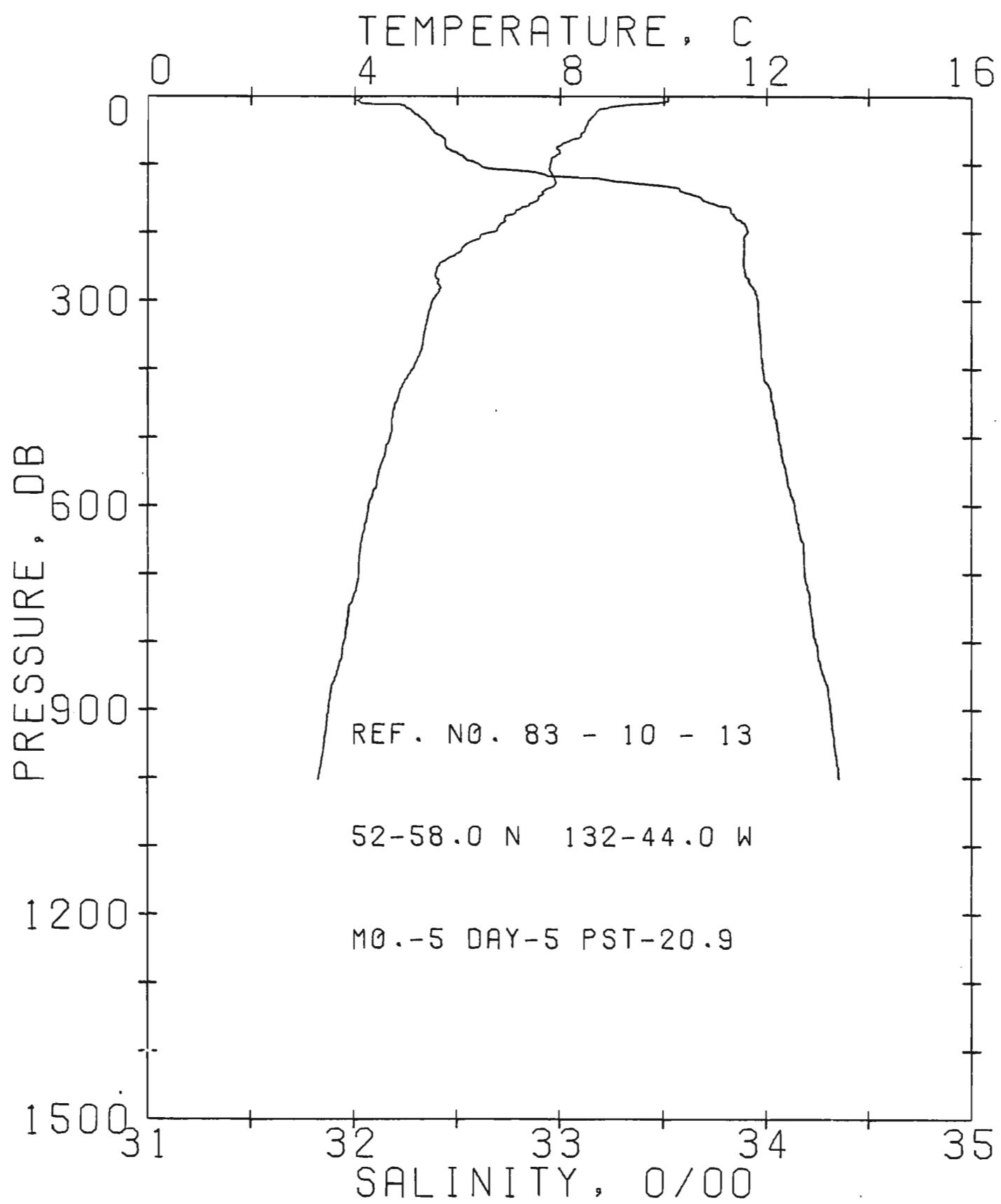
REFERENCE NO. 83-10- 12 DATE 5/ 5/83

POSITION 52-56.9N, 132-48.2W 18.5 STATION Q 8

RESULTS OF STP CAST 1003 POINTS TAKEN FROM DIGITAL SYSTEM

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	9.97	32.04	0	24.67	327.7	.00	.00	1486.
10	9.98	32.04	10	24.67	328.1	.33	.02	1487.
20	9.61	32.10	20	24.78	318.3	.65	.07	1486.
30	8.86	32.27	30	25.03	294.2	.96	.14	1483.
50	8.30	32.40	50	25.21	277.3	1.52	.37	1481.
75	8.07	32.43	75	25.27	272.2	2.21	.81	1481.
100	7.83	32.62	99	25.45	255.0	2.87	1.40	1481.
125	7.39	33.07	124	25.87	215.5	3.46	2.07	1480.
150	6.98	33.41	149	26.19	185.7	3.96	2.78	1479.
175	6.72	33.60	174	26.38	168.2	4.40	3.51	1479.
200	6.42	33.73	199	26.52	154.9	4.81	4.28	1478.
225	6.23	33.83	223	26.62	145.5	5.19	5.09	1478.
250	6.08	33.87	248	26.67	140.8	5.54	5.96	1478.
300	5.80	33.93	298	26.76	133.3	6.22	7.86	1478.
400	5.36	33.97	397	26.84	126.5	7.52	12.48	1478.
500	4.77	34.13	496	27.03	108.9	8.70	17.87	1477.
600	4.19	34.20	595	27.15	97.8	9.73	23.62	1476.
800	3.63	34.28	793	27.27	87.1	11.58	36.82	1477.
1000	3.19	34.38	990	27.39	76.4	13.22	51.81	1479.



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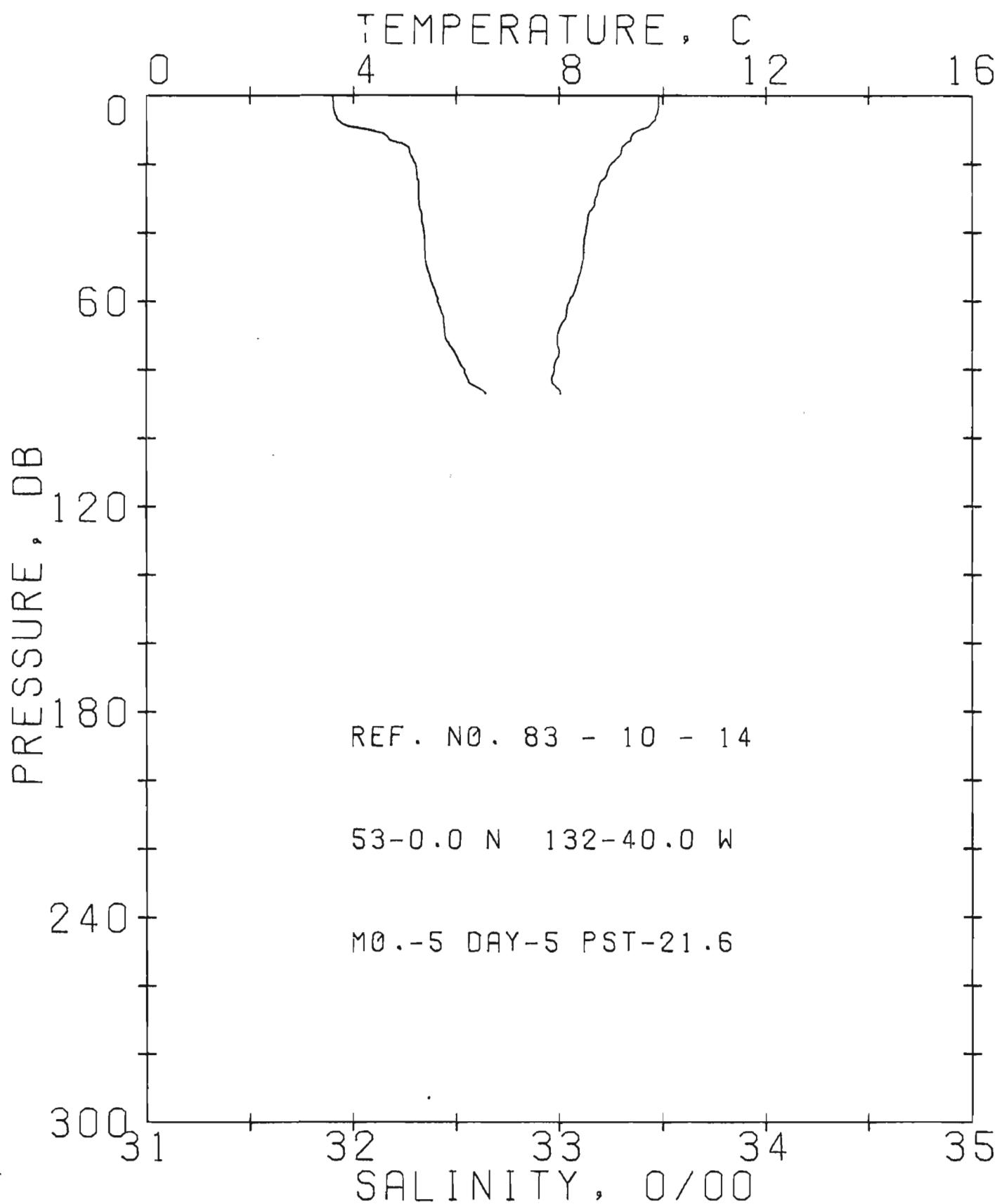
REFERENCE NO. 83-10- 13 DATE 5/ 5/83

POSITION 52-58.0N, 132-44.0W 20.9 STATION Q 9

RESULTS OF STP CAST 1002 POINTS TAKEN FROM DIGITAL SYSTEM

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	10.10	32.04	0	24.65	330.1	.00	.00	1487.
10	9.77	32.04	10	24.70	325.0	.33	.02	1486.
20	8.74	32.28	20	25.05	291.9	.63	.06	1483.
30	8.63	32.32	30	25.10	287.5	.92	.14	1482.
50	8.48	32.39	50	25.18	280.6	1.49	.37	1482.
75	7.93	32.45	75	25.31	268.6	2.17	.80	1481.
100	7.81	32.61	99	25.45	255.3	2.83	1.39	1481.
125	7.92	33.28	124	25.96	207.3	3.42	2.06	1482.
150	7.60	33.69	149	26.32	173.3	3.88	2.70	1482.
175	6.95	33.84	174	26.54	153.2	4.28	3.37	1480.
200	6.64	33.91	199	26.63	144.5	4.66	4.09	1479.
225	6.10	33.89	223	26.69	139.3	5.01	4.85	1478.
250	5.63	33.89	248	26.74	133.9	5.35	5.68	1476.
300	5.53	33.96	298	26.81	128.4	6.01	7.52	1477.
400	5.15	33.98	397	26.88	122.8	7.27	12.01	1477.
500	4.71	34.06	496	26.99	112.9	8.43	17.34	1477.
600	4.29	34.14	595	27.10	103.0	9.52	23.40	1477.
800	3.81	34.25	793	27.23	91.6	11.46	37.25	1478.
1000	3.32	34.36	990	27.36	79.3	13.15	52.71	1479.



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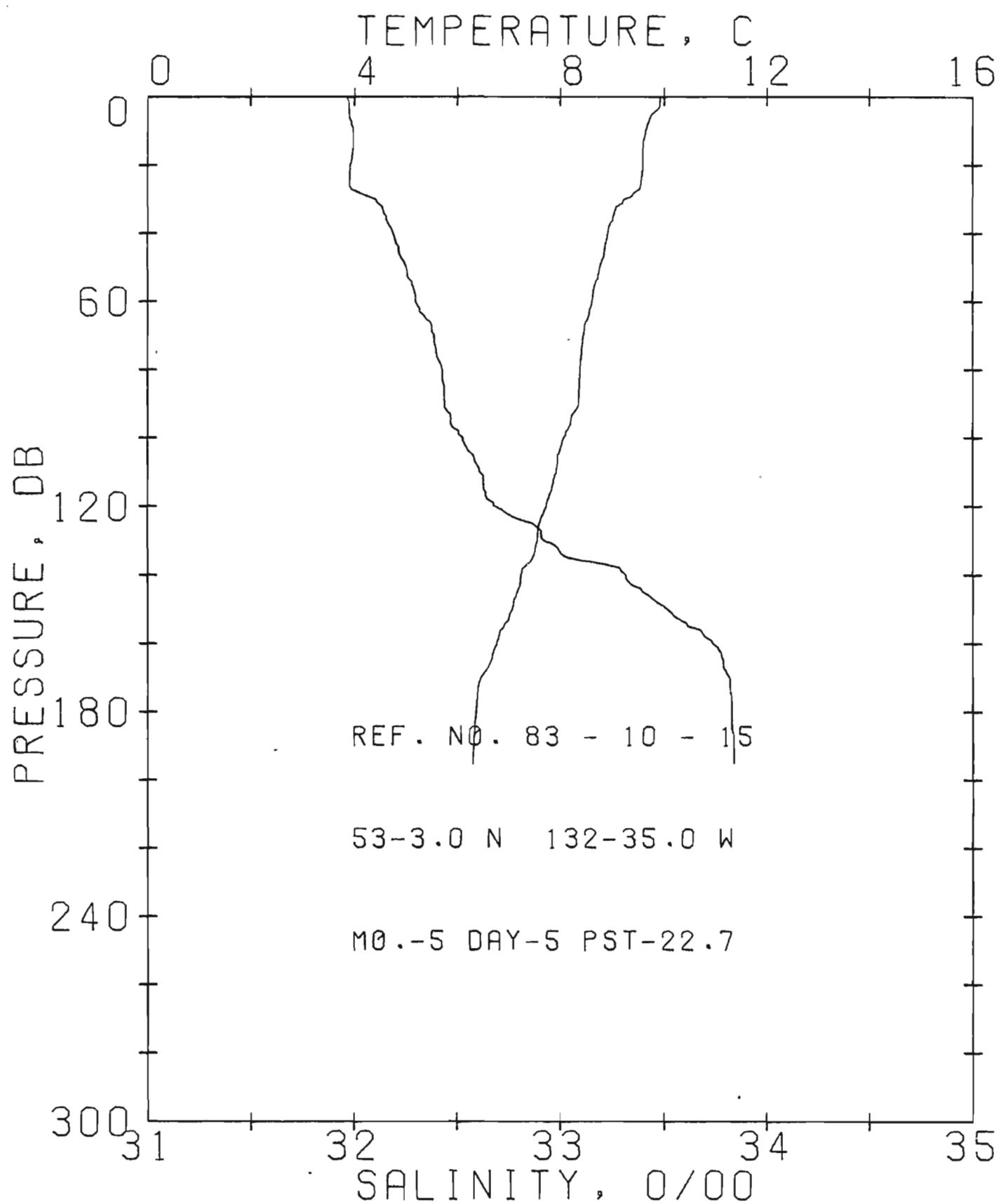
REFERENCE NO. 83-10- 14 DATE 5/ 5/83

POSITION 53- .0N, 132-40.0W 21.6 STATION Q10

RESULTS OF STP CAST 88 POINTS TAKEN FROM DIGITAL SYSTEM

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	9.92	31.90	0	24.57	337.2	.00	.00	1486.
10	9.56	32.07	10	24.76	319.3	.33	.02	1485.
20	9.00	32.30	20	25.03	294.0	.64	.06	1484.
30	8.70	32.32	30	25.09	288.6	.93	.14	1483.
50	8.44	32.36	50	25.16	282.2	1.50	.37	1482.
75	8.02	32.49	75	25.33	266.8	2.18	.80	1481.



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REFERENCE NO. 83-10- 15 DATE 5/ 5/83

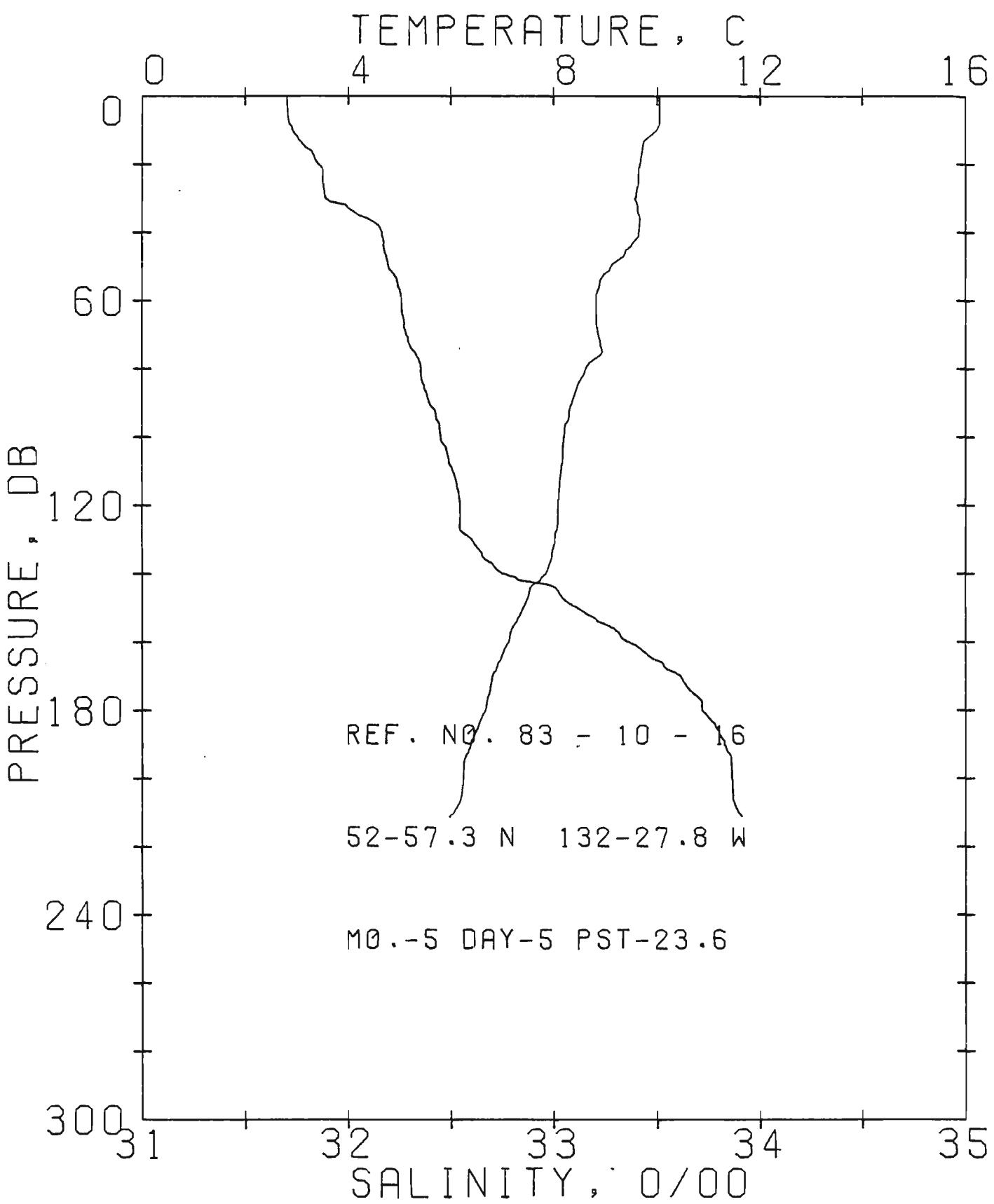
POSITION 53- 3.0N, 132-35.0W 22.7 STATION Q11

RESULTS OF STP CAST 153 POINTS TAKEN FROM DIGITAL SYSTEM

GUILDLINE WAS USED,PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	9.93	31.97	0	24.62	332.6	.00	.00	1486.
10	9.64	32.00	10	24.69	326.1	.33	.02	1485.
20	9.58	31.98	20	24.69	326.8	.66	.07	1485.
30	9.22	32.11	30	24.85	311.9	.98	.15	1484.
50	8.77	32.25	50	25.03	294.6	1.58	.39	1483.
75	8.42	32.40	75	25.20	279.2	2.30	.85	1482.
100	8.07	32.53	99	25.35	265.0	2.99	1.46	1482.
125	7.59	32.87	124	25.68	233.4	3.62	2.19	1481.
150	7.08	33.52	149	26.27	178.4	4.14	2.91	1480.
175	6.40	33.83	174	26.60	147.2	4.53	3.56	1478.

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REFERENCE NO. 83-10- 16 DATE 5/ 5/83

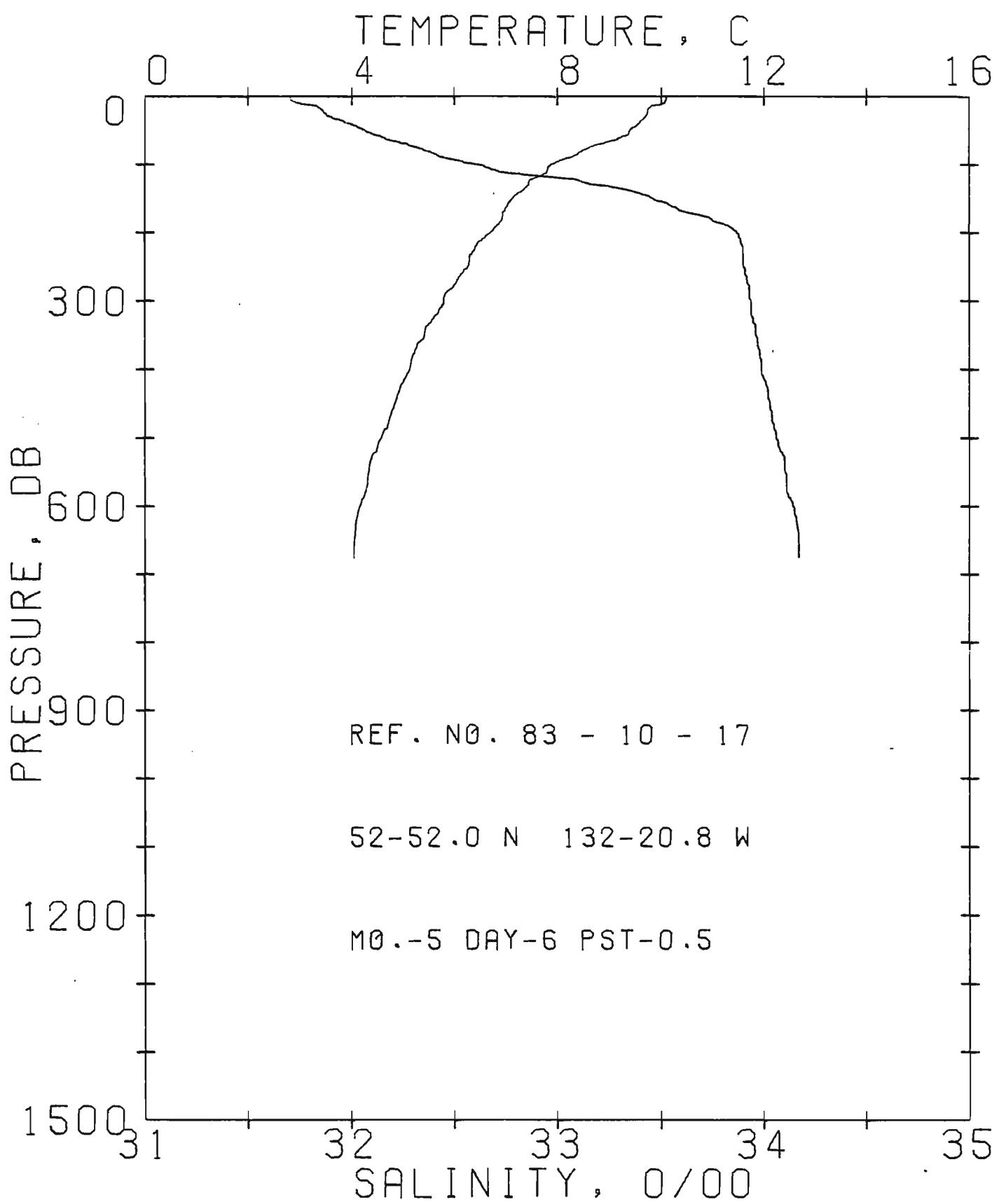
POSITION 52-57.3N, 132-27.8W 23.6 STATION Q12

RESULTS OF STP CAST 212 POINTS TAKEN FROM DIGITAL SYSTEM

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	10.05	31.71	0	24.40	353.9	.00	.00	1486.
10	9.99	31.73	10	24.43	351.1	.35	.02	1486.
20	9.68	31.86	20	24.58	337.0	.70	.07	1486.
30	9.56	31.89	30	24.62	332.9	1.03	.16	1485.
50	9.11	32.20	50	24.93	303.8	1.66	.41	1484.
75	8.96	32.33	75	25.06	292.3	2.40	.88	1484.
100	8.21	32.45	99	25.27	272.4	3.10	1.51	1482.
125	8.09	32.54	124	25.36	264.5	3.77	2.27	1482.
150	7.41	33.12	149	25.91	212.7	4.38	3.12	1481.
175	6.76	33.68	174	26.43	163.0	4.84	3.89	1479.
200	6.25	33.86	199	26.65	142.8	5.22	4.61	1478.

30



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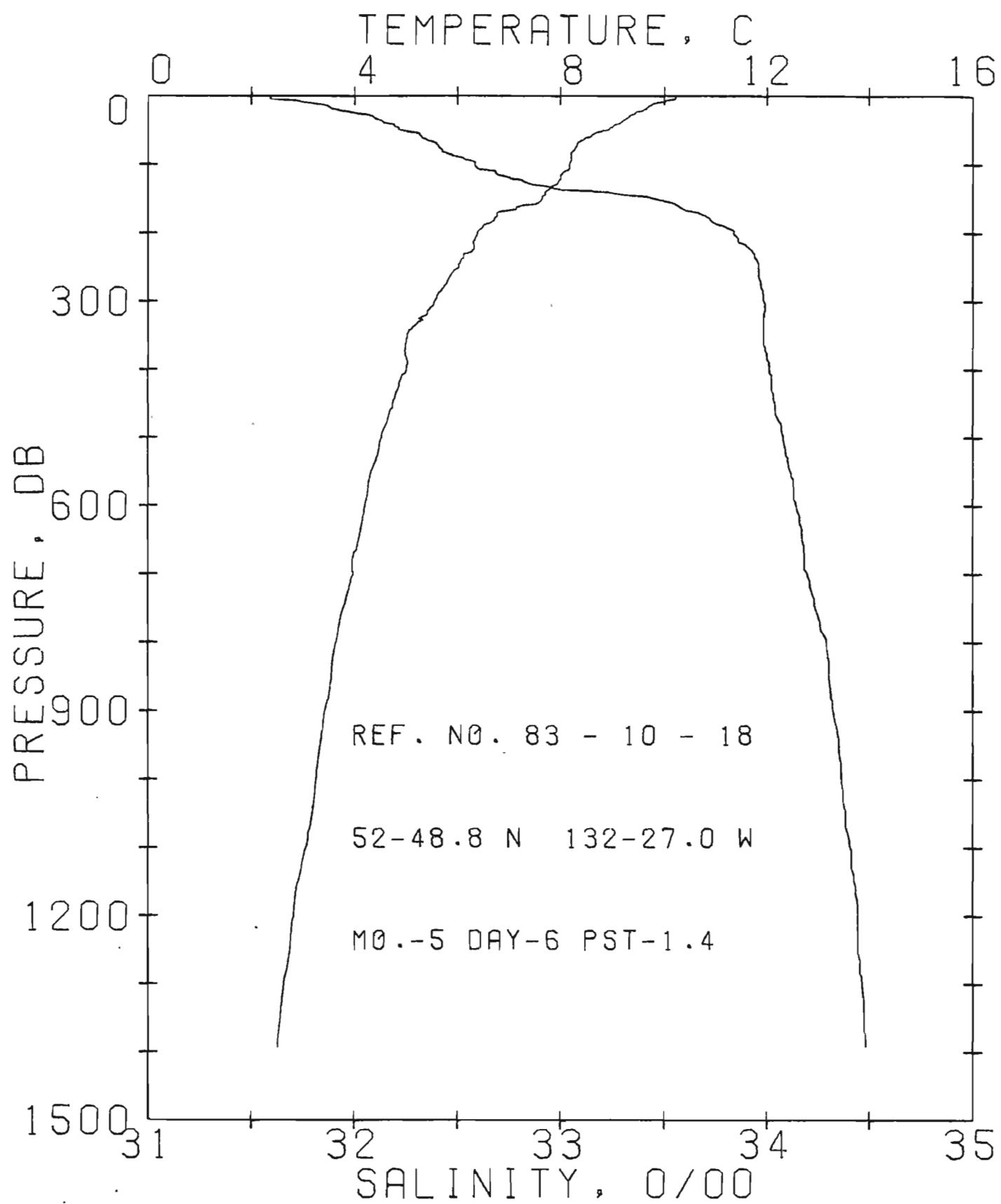
REFERENCE NO. 83-10- 17 DATE 6/ 5/83

POSITION 52-52.0N, 132-20.8W .5 STATION Q13

RESULTS OF STP CAST 321 POINTS TAKEN FROM DIGITAL SYSTEM

GUIDELINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	10.11	31.71	0	24.39	354.7	.00	.00	1487.
10	10.02	31.76	10	24.44	349.8	.35	.02	1486.
20	9.75	31.87	20	24.57	337.6	.69	.07	1486.
30	9.69	31.91	30	24.61	333.9	1.03	.16	1486.
50	9.41	32.07	50	24.79	317.6	1.68	.42	1485.
75	8.61	32.33	75	25.11	287.1	2.44	.90	1483.
100	7.87	32.62	99	25.45	255.5	3.13	1.51	1481.
125	7.46	33.12	124	25.90	212.6	3.72	2.19	1480.
150	7.14	33.47	149	26.22	183.3	4.21	2.88	1480.
175	6.95	33.70	174	26.43	163.7	4.65	3.59	1480.
200	6.71	33.87	199	26.59	148.3	5.03	4.34	1480.
225	6.40	33.90	223	26.66	142.3	5.40	5.12	1479.
250	6.28	33.90	248	26.67	140.9	5.75	5.97	1479.
300	5.80	33.94	298	26.76	132.8	6.43	7.88	1478.
400	5.14	33.99	397	26.88	122.1	7.70	12.40	1477.
500	4.59	34.06	496	27.00	111.4	8.87	17.73	1476.
600	4.17	34.15	595	27.11	101.4	9.93	23.67	1476.



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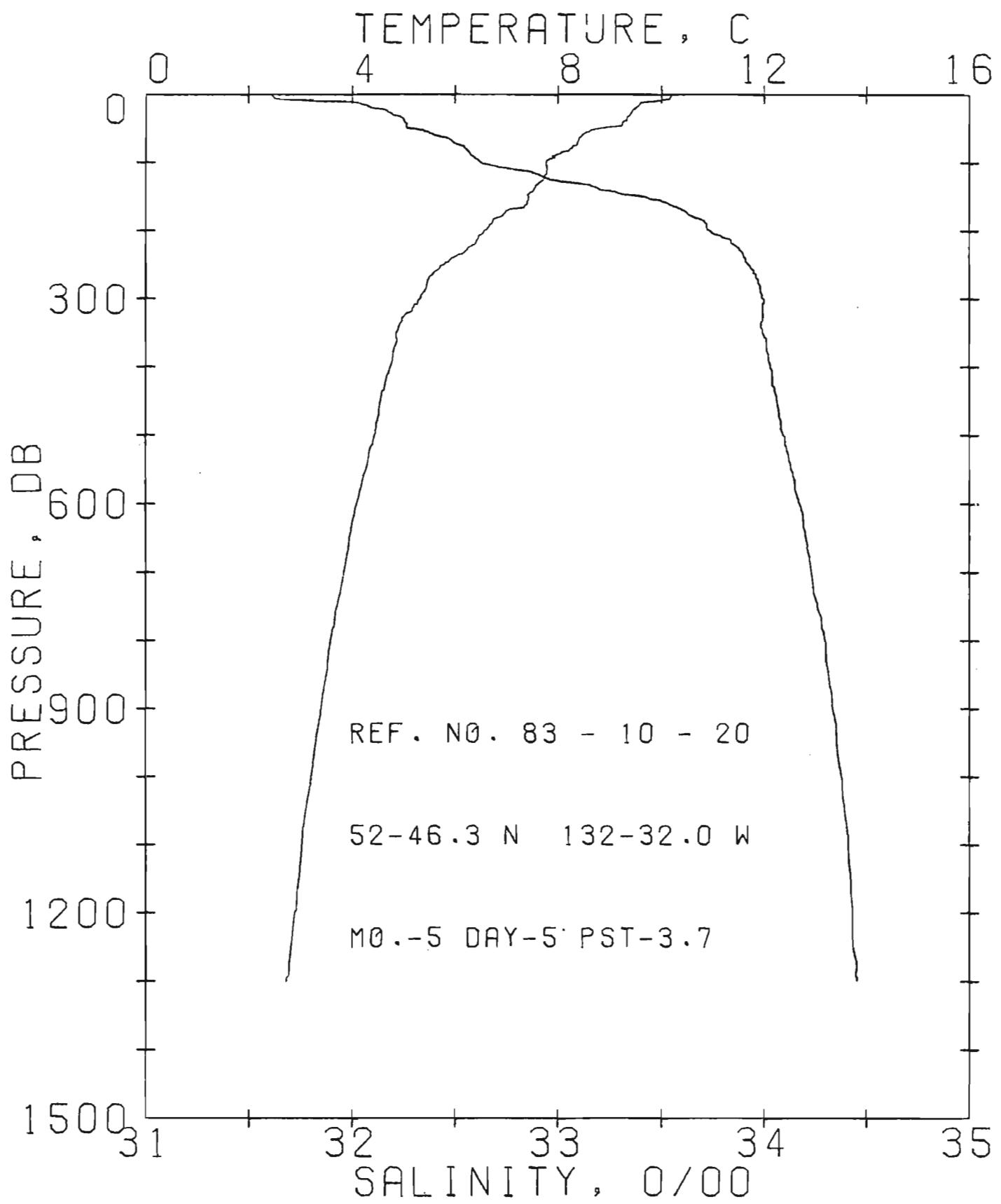
REFERENCE NO. 83-10- 18 DATE 6/ 5/83

POSITION 52-48.8N, 132-27.0W 1.4 STATION Q14

RESULTS OF STP CAST 370 POINTS TAKEN FROM DIGITAL SYSTEM

GUILDLINE WAS USED,PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	10.24	31.60	0	24.28	364.9	.00	.00	1487.
10	9.86	31.80	10	24.50	344.3	.36	.02	1486.
20	9.61	31.93	20	24.64	331.0	.69	.07	1485.
30	9.33	32.10	30	24.82	314.3	1.02	.15	1485.
50	8.87	32.24	50	25.00	297.2	1.63	.40	1483.
75	8.31	32.42	75	25.23	276.3	2.34	.85	1482.
100	8.18	32.59	99	25.38	262.1	3.01	1.45	1482.
125	7.98	32.83	124	25.60	241.5	3.64	2.17	1482.
150	7.66	33.47	149	26.14	190.4	4.19	2.93	1482.
175	6.77	33.71	174	26.45	161.0	4.62	3.65	1479.
200	6.39	33.84	199	26.61	146.4	5.01	4.39	1478.
225	6.31	33.93	223	26.69	139.0	5.36	5.16	1479.
250	6.04	33.96	248	26.75	133.6	5.70	5.98	1478.
300	5.56	33.99	298	26.83	126.5	6.35	7.80	1477.
400	5.02	34.01	397	26.91	119.1	7.57	12.14	1476.
500	4.53	34.08	496	27.02	109.3	8.71	17.37	1476.
600	4.22	34.15	595	27.11	102.0	9.77	23.28	1476.
800	3.65	34.29	793	27.28	86.2	11.67	36.77	1478.
1000	3.26	34.37	990	27.38	78.0	13.31	51.79	1479.
1200	2.83	34.45	1188	27.48	68.6	14.77	68.17	1481.



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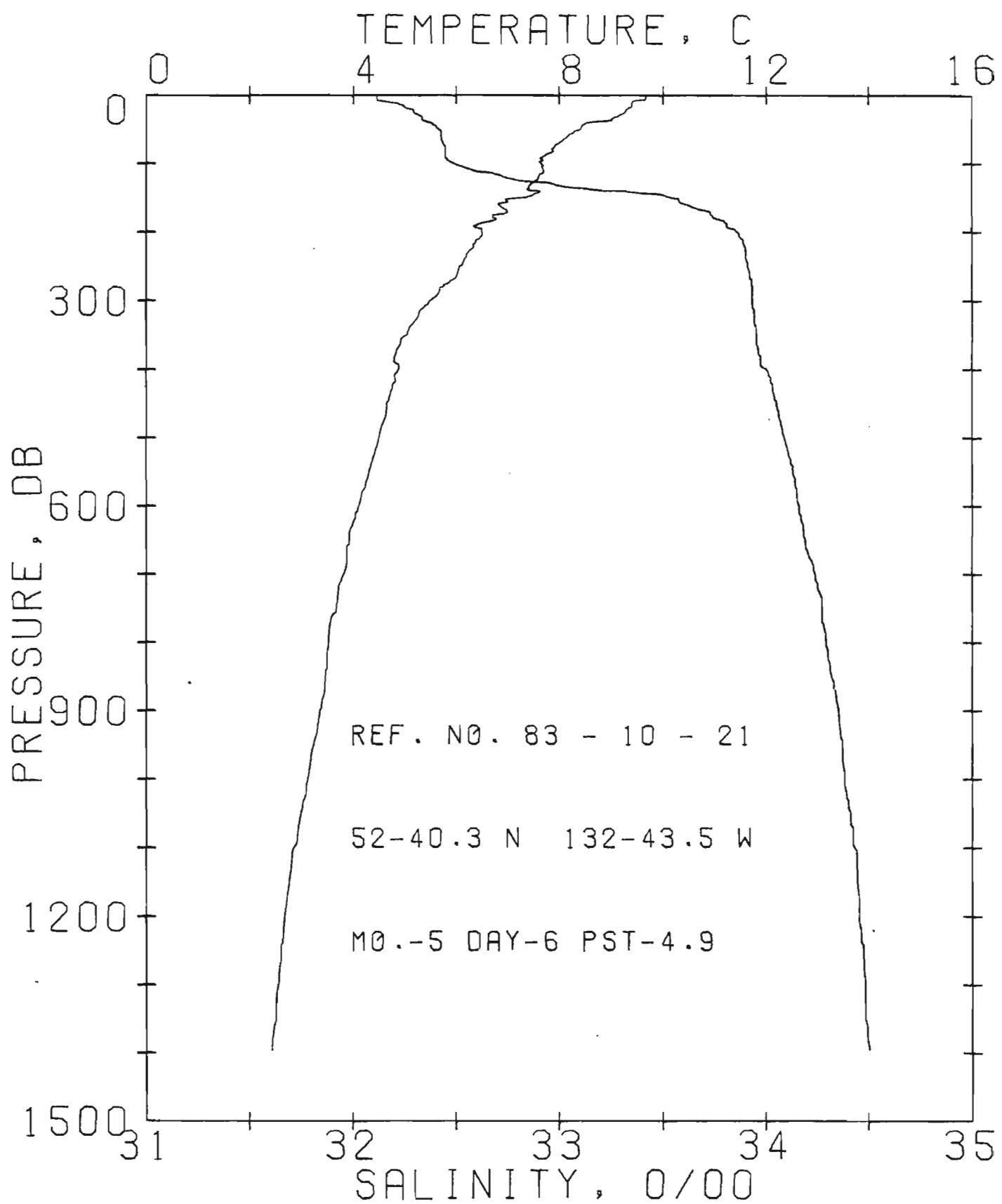
REFERENCE NO. 83-10- 20 DATE 5/ 5/83

POSITION 52-46.3N, 132-32.0W 3.7 STATION Q15

RESULTS OF STP CAST 361 POINTS TAKEN FROM DIGITAL SYSTEM

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	10.21	31.62	0	24.30	362.9	.00	.00	1487.
10	9.67	31.99	10	24.68	327.3	.36	.02	1485.
20	9.50	32.12	20	24.81	315.2	.68	.07	1485.
30	9.40	32.21	30	24.90	307.2	.99	.15	1485.
50	8.72	32.32	50	25.09	289.1	1.59	.39	1483.
75	8.30	32.54	75	25.32	267.1	2.28	.83	1482.
100	7.77	32.63	99	25.47	253.4	2.93	1.41	1481.
125	7.72	32.97	124	25.74	227.8	3.53	2.09	1481.
150	7.44	33.43	149	26.14	190.1	4.05	2.82	1481.
175	6.97	33.63	174	26.37	169.2	4.50	3.56	1480.
200	6.58	33.74	199	26.51	156.2	4.90	4.33	1479.
225	6.26	33.88	223	26.66	142.0	5.27	5.44	1478.
250	5.75	33.93	248	26.76	132.3	5.62	5.97	1477.
300	5.32	34.00	298	26.87	122.8	6.25	7.75	1476.
400	4.76	34.03	397	26.96	114.7	7.43	11.97	1475.
500	4.45	34.10	496	27.04	107.3	8.54	17.04	1476.
600	4.10	34.18	595	27.14	98.3	9.57	22.80	1476.
800	3.59	34.30	793	27.29	85.0	11.41	35.87	1477.
1000	3.22	34.38	990	27.39	76.4	13.03	50.68	1479.
1200	2.90	34.44	1188	27.47	70.1	14.49	67.01	1481.



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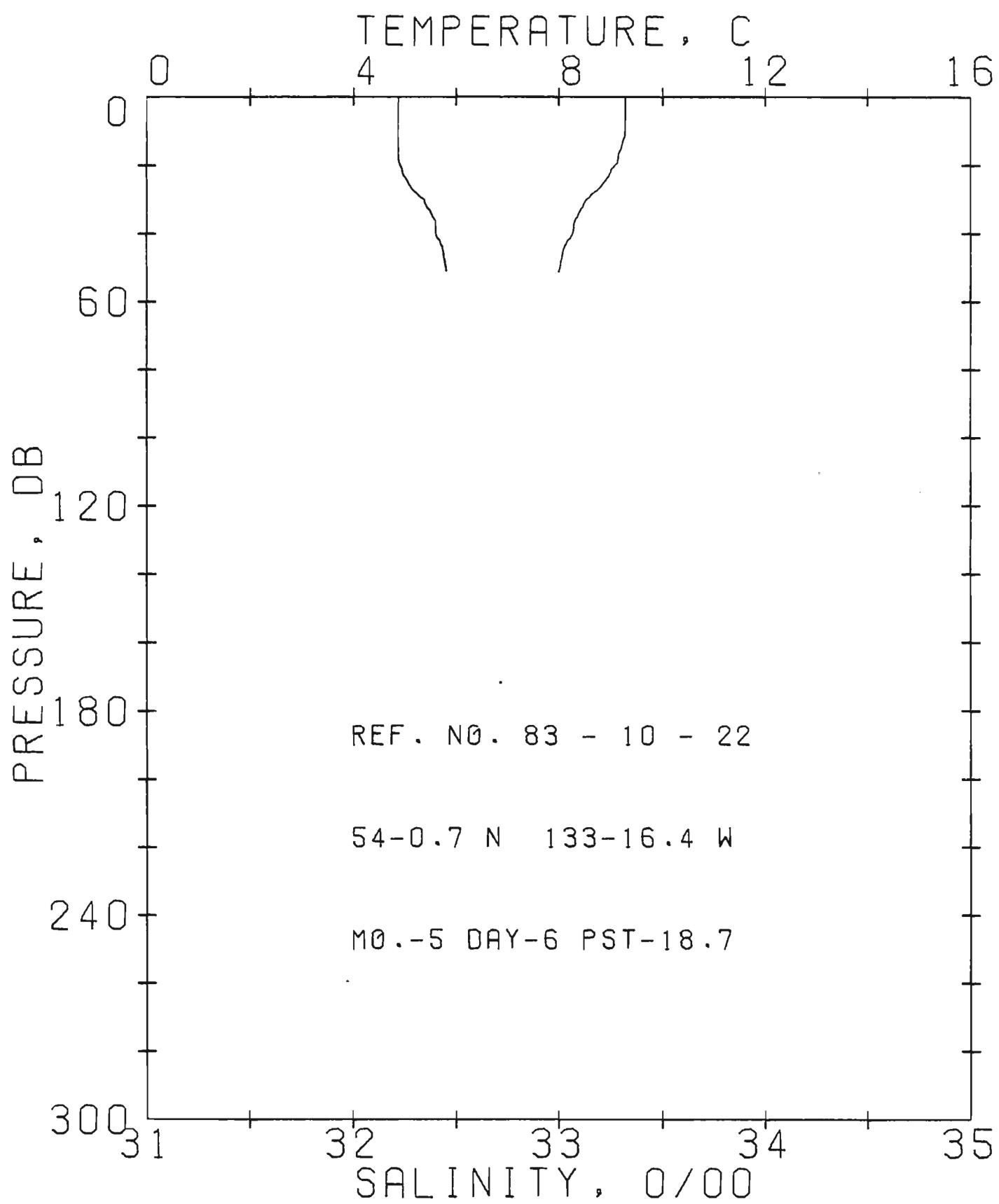
REFERENCE NO. 83-10- 21 DATE 6/ 5/83

POSITION 52-40.3N, 132-43.5W 4.9 STATION Q16

RESULTS OF STP CAST 383 POINTS TAKEN FROM DIGITAL SYSTEM

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	9.69	32.12	0	24.78	317.8	.00	.00	1486.
10	9.41	32.19	10	24.88	308.5	.32	.02	1485.
20	9.32	32.28	20	24.96	300.6	.62	.06	1485.
30	9.16	32.33	30	25.03	294.7	.92	.14	1484.
50	8.40	32.42	50	25.21	277.0	1.49	.37	1482.
75	7.92	32.45	75	25.31	268.4	2.17	.80	1481.
100	7.67	32.49	99	25.38	261.9	2.83	1.40	1480.
125	7.55	32.82	124	25.65	236.6	3.46	2.11	1480.
150	7.25	33.54	149	26.26	179.4	3.98	2.83	1481.
175	6.72	33.74	174	26.48	158.1	4.39	3.53	1479.
200	6.52	33.86	199	26.61	146.2	4.77	4.25	1479.
225	6.30	33.90	223	26.67	141.1	5.13	5.03	1478.
250	6.07	33.91	248	26.71	137.7	5.48	5.87	1478.
300	5.49	33.93	298	26.79	129.7	6.15	7.74	1477.
400	4.89	34.01	397	26.92	118.2	7.39	12.14	1476.
500	4.51	34.09	496	27.03	108.5	8.52	17.32	1476.
600	4.12	34.16	595	27.13	99.6	9.55	23.12	1476.
800	3.53	34.29	793	27.29	84.9	11.38	36.13	1477.
1000	3.13	34.38	990	27.40	75.2	12.98	50.73	1479.
1200	2.69	34.46	1188	27.50	66.2	14.38	66.34	1480.



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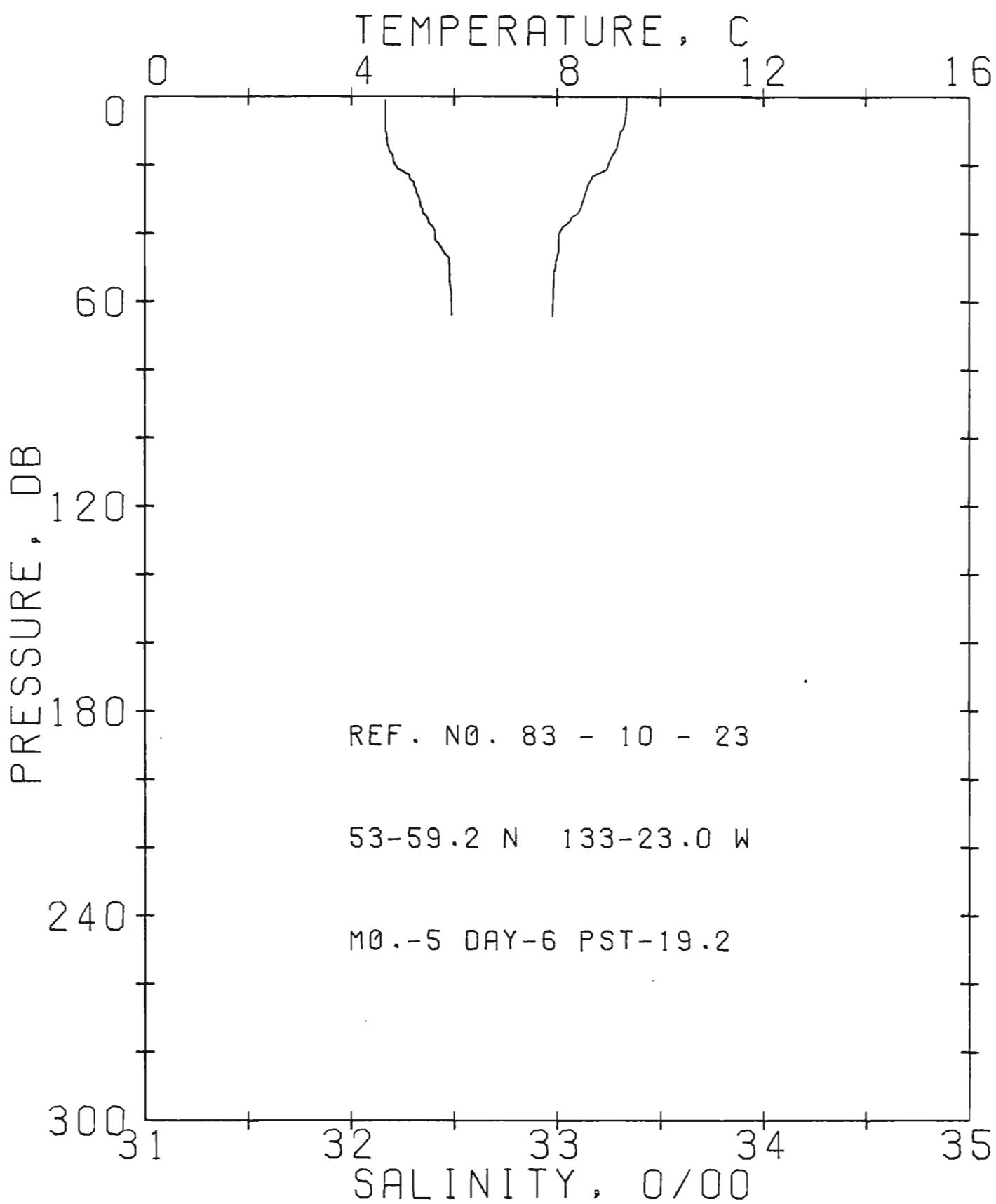
REFERENCE NO. 83-10- 22 DATE 6/ 5/83

POSITION 54- .7N, 133-16.4W 18.7 STATION Q17

RESULTS OF STP CAST 52 POINTS TAKEN FROM DIGITAL SYSTEM

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	9.29	32.22	0	24.92	303.9	.00	.00	1484.
10	9.29	32.22	10	24.92	304.3	.30	.02	1484.
20	9.08	32.23	20	24.97	300.3	.61	.06	1484.
30	8.53	32.35	30	25.14	283.9	.90	.14	1482.
50	8.03	32.45	50	25.30	269.3	1.45	.36	1481.



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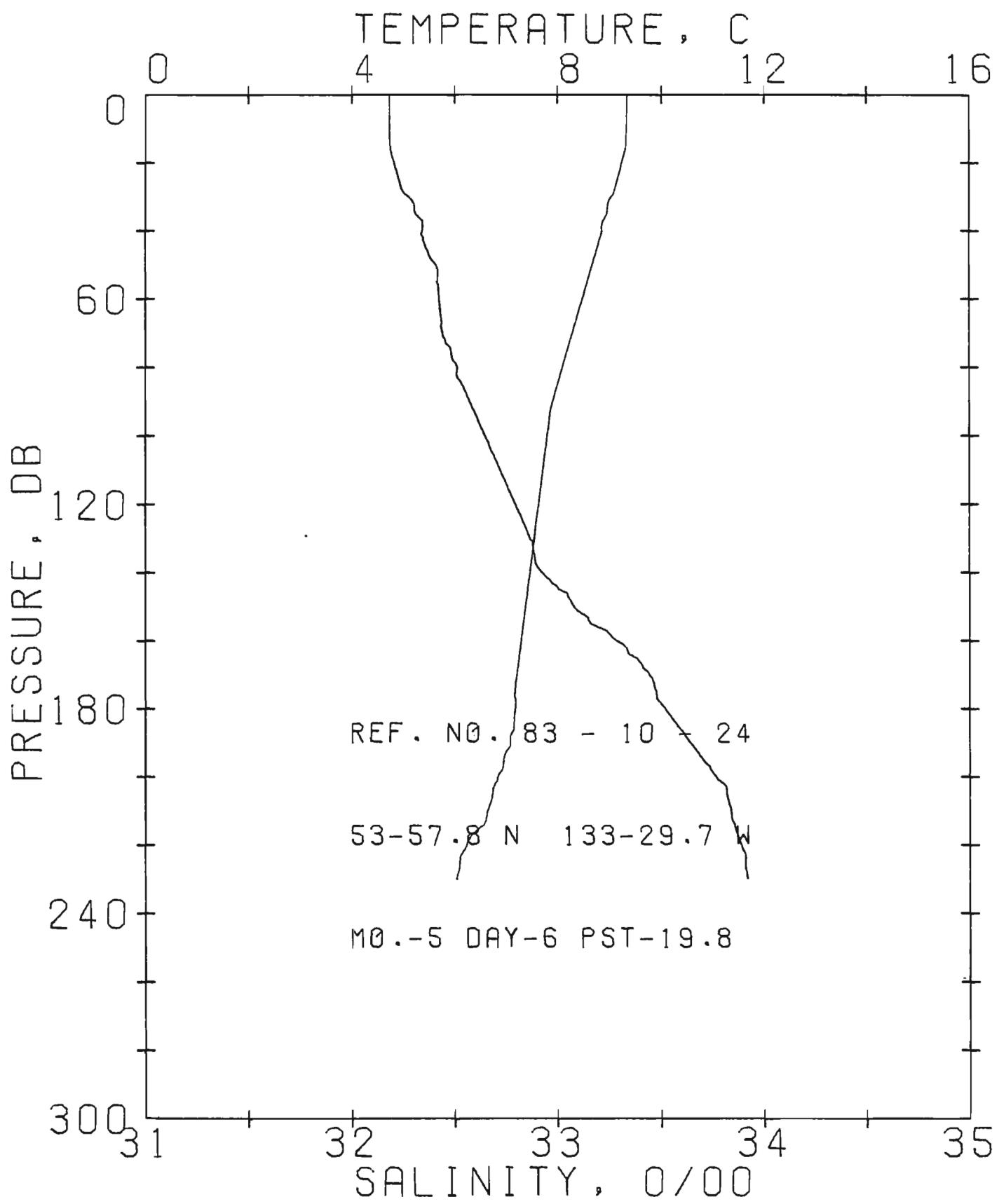
REFERENCE NO. 83-10- 23 DATE 6/ 5/83

POSITION 53-59.2N, 133-23.0W 19.2 STATION Q18

RESULTS OF STP CAST 54 POINTS TAKEN FROM DIGITAL SYSTEM

GUILDLINE WAS USED,PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	9.35	32.17	0	24.87	308.9	.00	.00	1484.
10	9.24	32.17	10	24.89	307.4	.31	.02	1484.
20	9.00	32.22	20	24.97	300.1	.61	.06	1483.
30	8.52	32.33	30	25.13	284.7	.90	.14	1482.
50	7.97	32.48	50	25.32	266.5	1.45	.36	1480.



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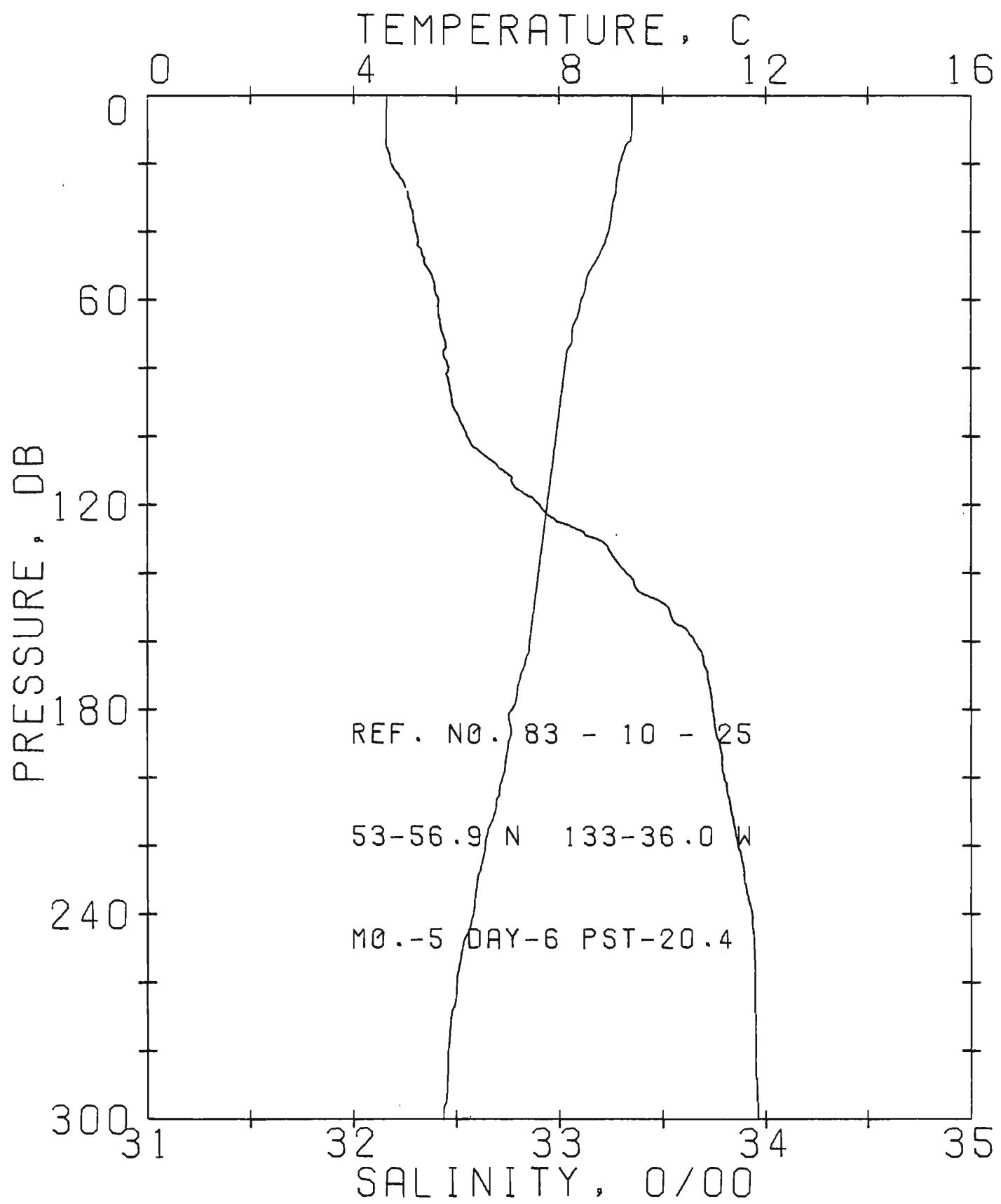
REFERENCE NO. 83-10- 24 DATE 6/ 5/83

POSITION 53-57.8N, 133-29.7W 19.8 STATION Q19

RESULTS OF STP CAST 220 POINTS TAKEN FROM DIGITAL SYSTEM

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	9.35	32.19	0	24.89	307.4	.00	.00	1484.
10	9.34	32.19	10	24.89	307.4	.31	.02	1485.
20	9.25	32.21	20	24.92	304.4	.61	.06	1484.
30	9.04	32.28	30	25.01	296.2	.92	.14	1484.
50	8.68	32.41	50	25.17	281.6	1.49	.37	1483.
75	8.20	32.49	75	25.30	269.6	2.19	.81	1482.
100	7.80	32.65	99	25.48	252.3	2.84	1.40	1481.
125	7.59	32.83	124	25.66	236.0	3.45	2.09	1481.
150	7.38	33.08	149	25.88	215.2	4.02	2.89	1480.
175	7.17	33.48	174	26.22	183.1	4.51	3.70	1481.
200	6.84	33.76	199	26.49	157.8	4.94	4.52	1480.
225	6.10	33.91	223	26.70	138.0	5.31	5.32	1478.



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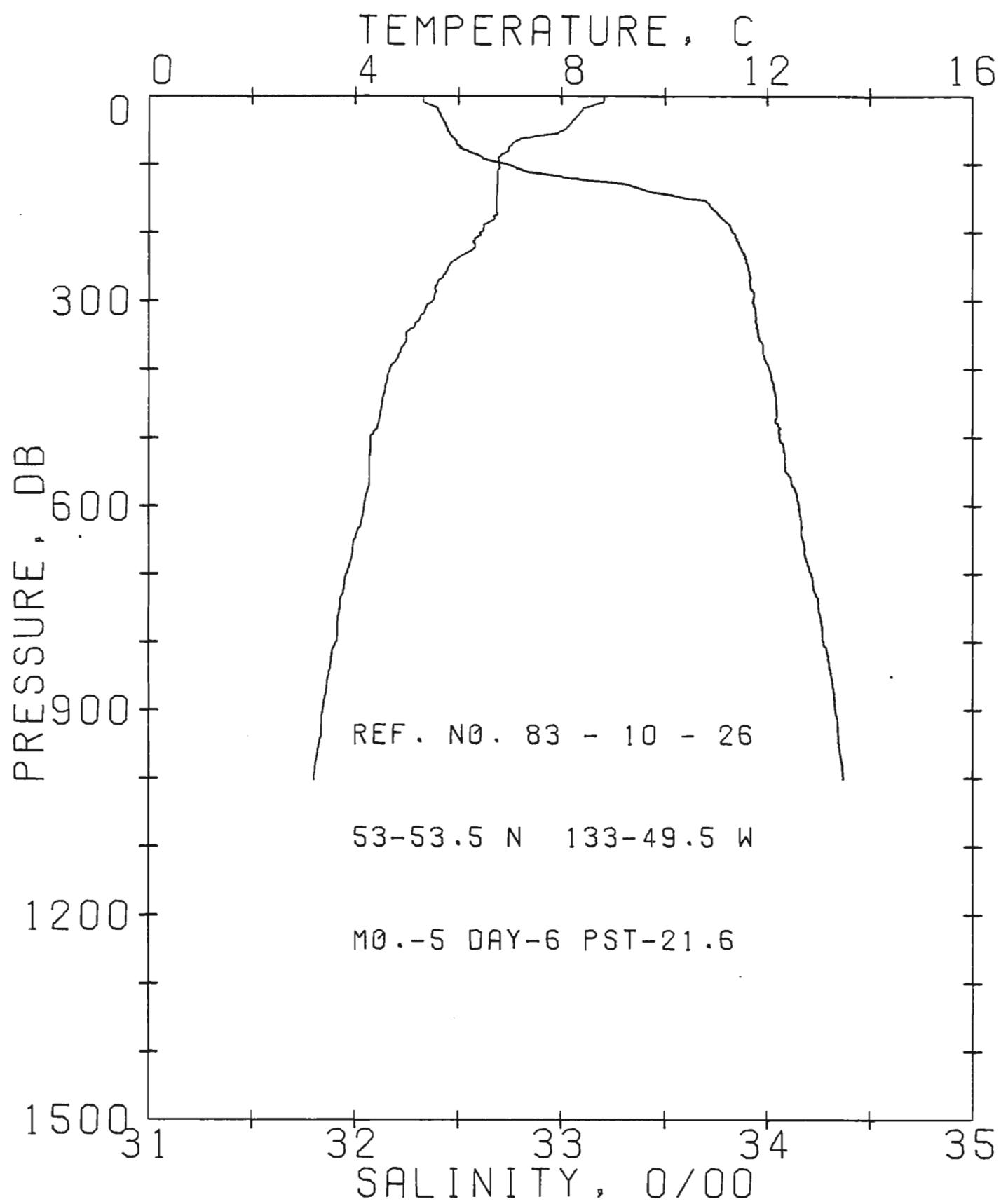
REFERENCE NO. 83-10- 25 DATE 6/ 5/83

POSITION 53-56.9N, 133-36.0W 20.4 STATION Q20

RESULTS OF STP CAST 382 POINTS TAKEN FROM DIGITAL SYSTEM

GUILDLINE WAS USED,PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	9.41	32.17	0	24.86	309.8	.00	.00	1485.
10	9.41	32.16	10	24.86	310.2	.31	.02	1485.
20	9.17	32.19	20	24.92	304.8	.62	.06	1484.
30	9.08	32.27	30	24.99	297.8	.92	.14	1484.
50	8.67	32.35	50	25.12	285.7	1.50	.38	1483.
75	8.16	32.44	75	25.26	272.8	2.20	.82	1481.
100	7.95	32.55	99	25.39	261.4	2.87	1.42	1481.
125	7.73	32.99	124	25.76	226.0	3.48	2.11	1481.
150	7.51	33.53	149	26.21	183.8	3.99	2.82	1482.
175	7.19	33.73	174	26.42	164.6	4.42	3.54	1481.
200	6.91	33.80	199	26.51	156.2	4.82	4.30	1480.
225	6.50	33.89	223	26.63	144.6	5.19	5.12	1479.
250	6.13	33.94	248	26.72	136.1	5.55	5.96	1478.
300	5.75	33.96	298	26.79	130.7	6.21	7.83	1478.



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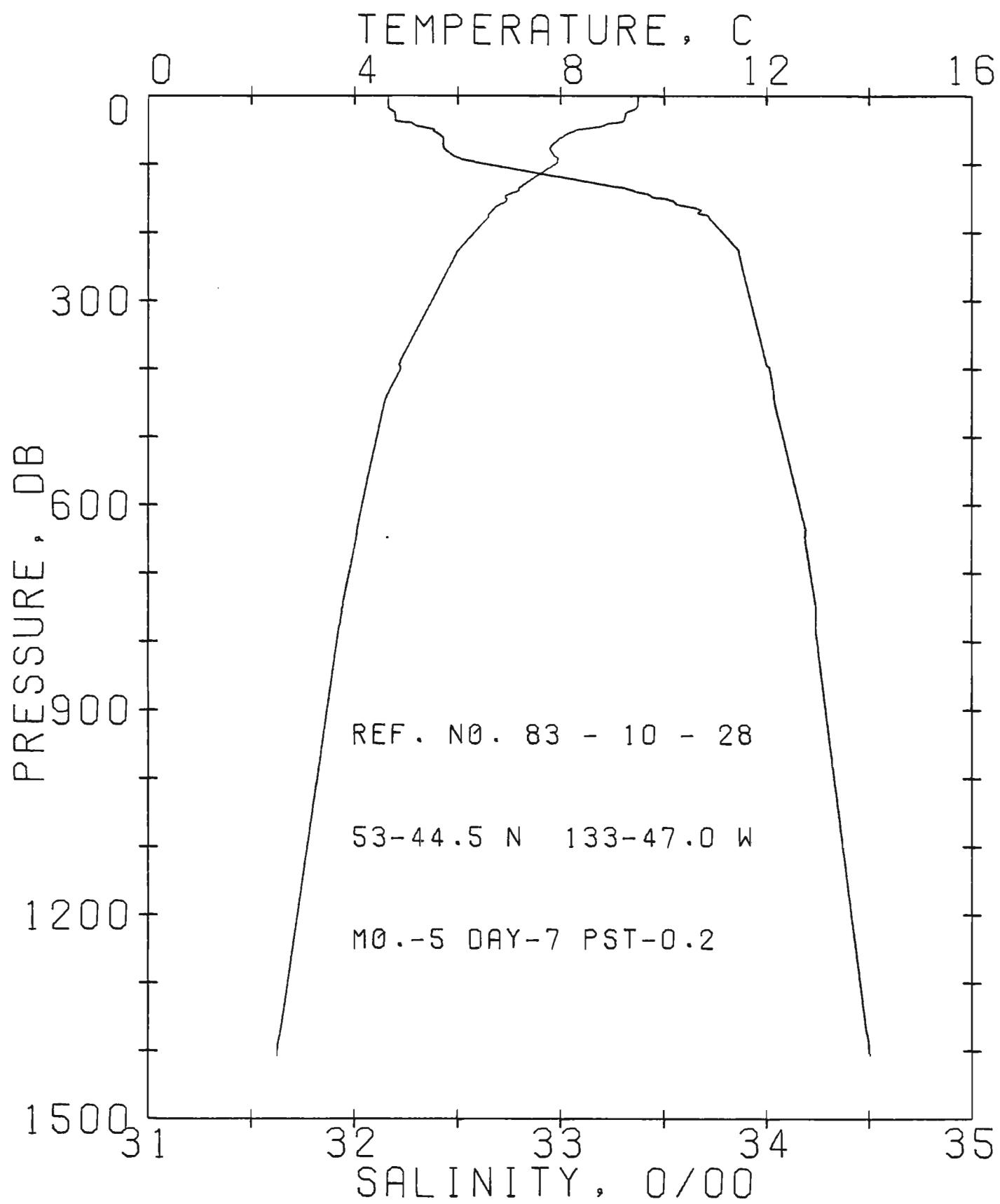
REFERENCE NO. 83-10- 26 DATE 6/ 5/83

POSITION 53-53.5N, 133-49.5W 21.6 STATION Q21

RESULTS OF STP CAST 1003 POINTS TAKEN FROM DIGITAL SYSTEM

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	8.84	32.34	0	25.08	288.7	.00	.00	1483.
10	8.75	32.34	10	25.10	287.3	.29	.01	1482.
20	8.42	32.40	20	25.20	278.2	.57	.06	1481.
30	8.30	32.42	30	25.23	275.5	.85	.13	1481.
50	8.06	32.45	50	25.29	269.7	1.39	.35	1481.
75	6.98	32.52	75	25.49	250.9	2.04	.76	1477.
100	6.79	32.74	99	25.69	232.4	2.65	1.30	1477.
125	6.76	33.18	124	26.04	199.6	3.20	1.93	1478.
150	6.75	33.60	149	26.37	168.2	3.65	2.57	1479.
175	6.70	33.77	174	26.51	155.5	4.05	3.23	1479.
200	6.41	33.83	199	26.60	147.4	4.43	3.95	1478.
225	6.30	33.88	223	26.65	142.9	4.79	4.73	1478.
250	5.82	33.91	248	26.73	135.0	5.14	5.57	1477.
300	5.50	33.93	298	26.79	129.8	5.80	7.42	1477.
400	4.69	34.01	397	26.95	115.3	7.02	11.78	1475.
500	4.31	34.06	496	27.03	108.8	8.14	16.91	1475.
600	4.18	34.16	595	27.12	100.7	9.19	22.79	1476.
800	3.65	34.27	793	27.27	87.6	11.07	36.11	1477.
1000	3.21	34.37	990	27.39	77.0	12.69	50.98	1479.



OFFSHORE OCEANOGRAPHY GROUP

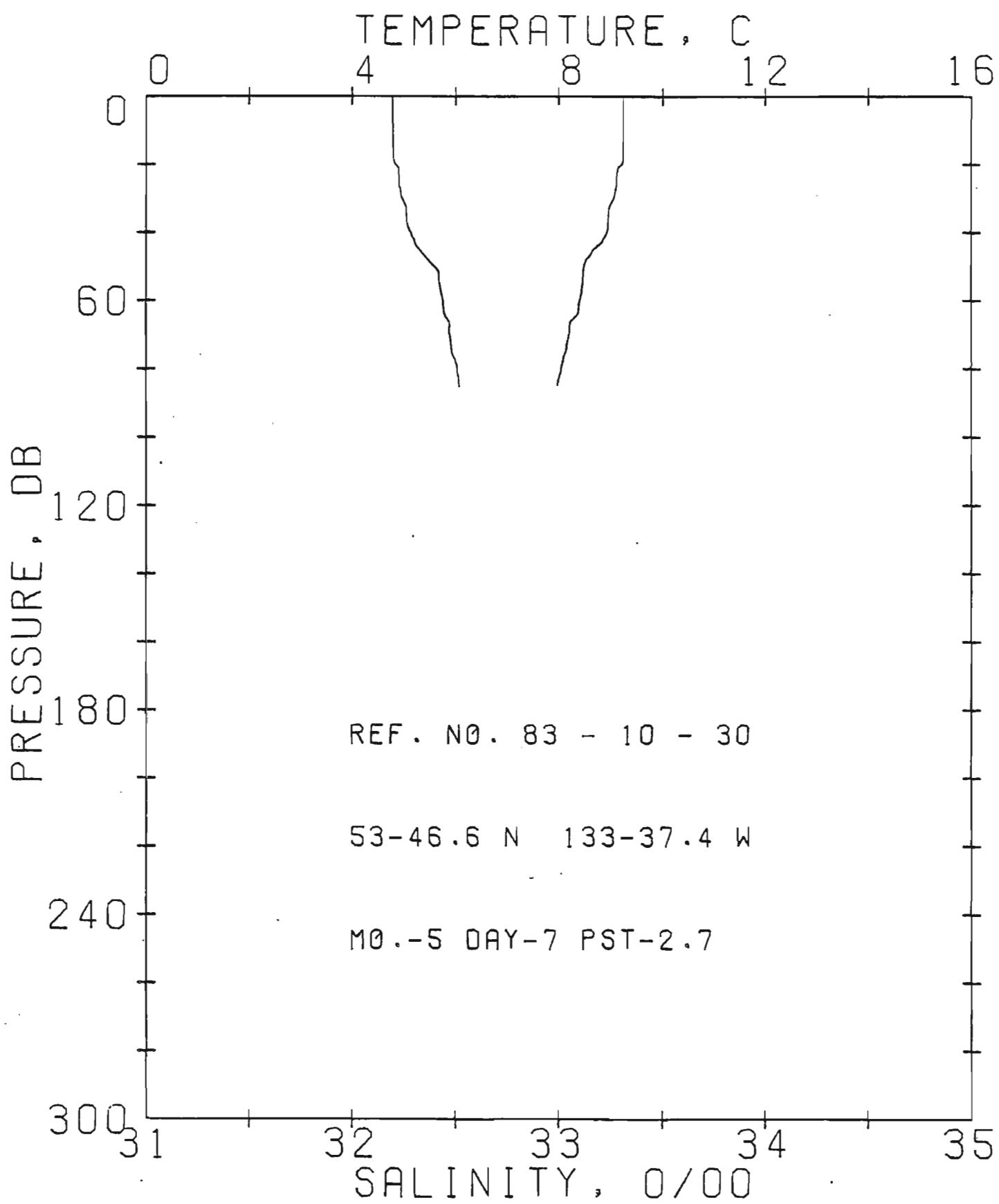
REFERENCE NO. 83-10- 28 DATE 7/ 5/83

POSITION 53-44.5N, 133-47.0W .2 STATION Q22

RESULTS OF STP CAST 239 POINTS TAKEN FROM DIGITAL SYSTEM

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA	SVA	DELTA	POT.	SOUND
					T		D	
0	9.50	32.17	0	24.85	311.3	.00	.00	1485.
10	9.50	32.17	10	24.85	311.4	.31	.02	1485.
20	9.43	32.17	20	24.86	310.0	.62	.06	1485.
30	9.25	32.20	30	24.91	305.3	.93	.14	1485.
50	8.31	32.39	50	25.20	278.1	1.52	.38	1482.
75	7.80	32.43	75	25.31	268.1	2.20	.81	1480.
100	7.91	32.63	99	25.45	255.2	2.86	1.40	1481.
125	7.39	33.11	124	25.90	212.9	3.45	2.07	1480.
150	6.96	33.49	149	26.26	179.1	3.93	2.75	1479.
175	6.61	33.71	174	26.48	158.3	4.35	3.44	1479.
200	6.34	33.79	199	26.57	149.7	4.74	4.17	1478.
225	6.03	33.86	223	26.67	140.7	5.10	4.96	1477.
250	5.85	33.88	248	26.71	137.3	5.45	5.80	1477.
300	5.51	33.92	298	26.78	130.6	6.12	7.67	1477.
400	4.91	34.02	397	26.93	117.6	7.36	12.07	1476.
500	4.45	34.08	496	27.03	108.5	8.49	17.23	1476.
600	4.17	34.16	595	27.13	100.2	9.53	23.06	1476.
800	3.67	34.25	793	27.24	89.9	11.42	36.47	1478.
1000	3.29	34.33	990	27.35	80.8	13.12	52.04	1479.
1200	2.90	34.42	1188	27.45	71.6	14.65	69.03	1481.



OFFSHORE OCEANOGRAPHY GROUP

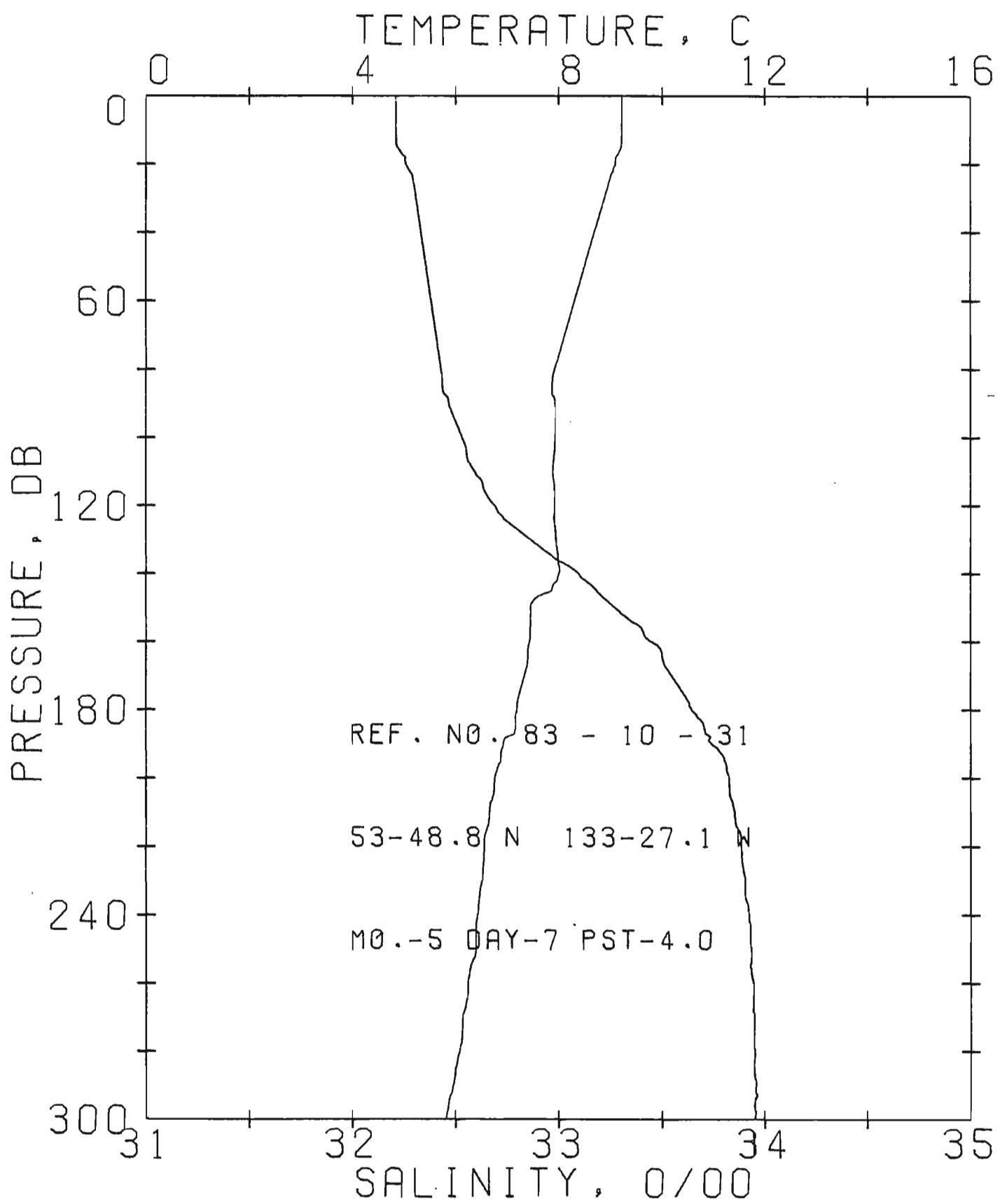
REFERENCE NO. 83-10- 30 DATE 7/ 5/83

POSITION 53-46.6N, 133-37.4W 2.7 STATION Q23

RESULTS OF STP CAST 86 POINTS TAKEN FROM DIGITAL SYSTEM

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	9.25	32.20	0	24.91	305.3	.00	.00	1484.
10	9.25	32.20	10	24.91	305.3	.31	.02	1484.
20	9.22	32.21	20	24.92	304.2	.61	.06	1484.
30	9.06	32.24	30	24.98	299.5	.91	.14	1484.
50	8.49	32.39	50	25.18	280.1	1.50	.38	1482.
75	8.14	32.48	75	25.30	269.0	2.18	.81	1481.



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REFERENCE NO. 83-10- 31

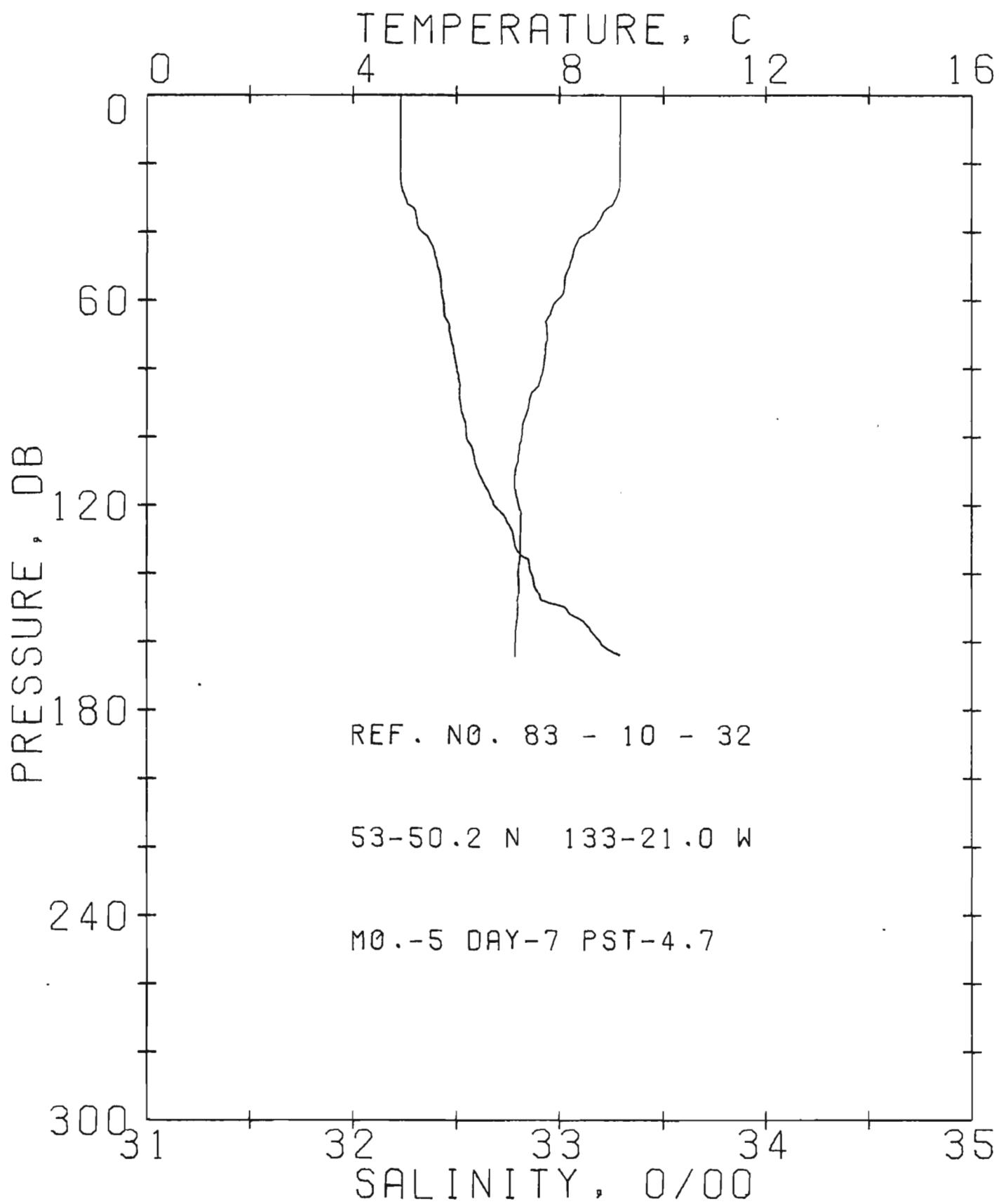
DATE 7/ 5/83

POSITION 53-48.8N, 133-27.1W 4.0 STATION Q24

RESULTS OF STP CAST 298 POINTS TAKEN FROM DIGITAL SYSTEM

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	9.22	32.21	0	24.93	303.6	.00	.00	1484.
10	9.23	32.21	10	24.93	303.7	.30	.02	1484.
20	9.10	32.26	20	24.98	298.7	.61	.06	1484.
30	8.88	32.31	30	25.06	291.8	.90	.14	1483.
50	8.50	32.36	50	25.15	283.0	1.47	.37	1482.
75	8.02	32.42	75	25.27	272.1	2.17	.81	1481.
100	7.93	32.53	99	25.37	262.7	2.84	1.41	1481.
125	7.91	32.76	124	25.55	246.2	3.48	2.14	1482.
150	7.45	33.27	149	26.02	202.0	4.04	2.93	1481.
175	7.25	33.60	174	26.30	175.3	4.51	3.70	1481.
200	6.76	33.82	199	26.55	152.3	4.92	4.48	1480.
225	6.54	33.89	223	26.63	145.0	5.29	5.28	1479.
250	6.39	33.93	248	26.68	140.1	5.65	6.14	1479.
300	5.82	33.95	298	26.77	132.4	6.33	8.05	1478.
400	4.79	34.02	397	26.94	116.0	7.57	12.43	1475.



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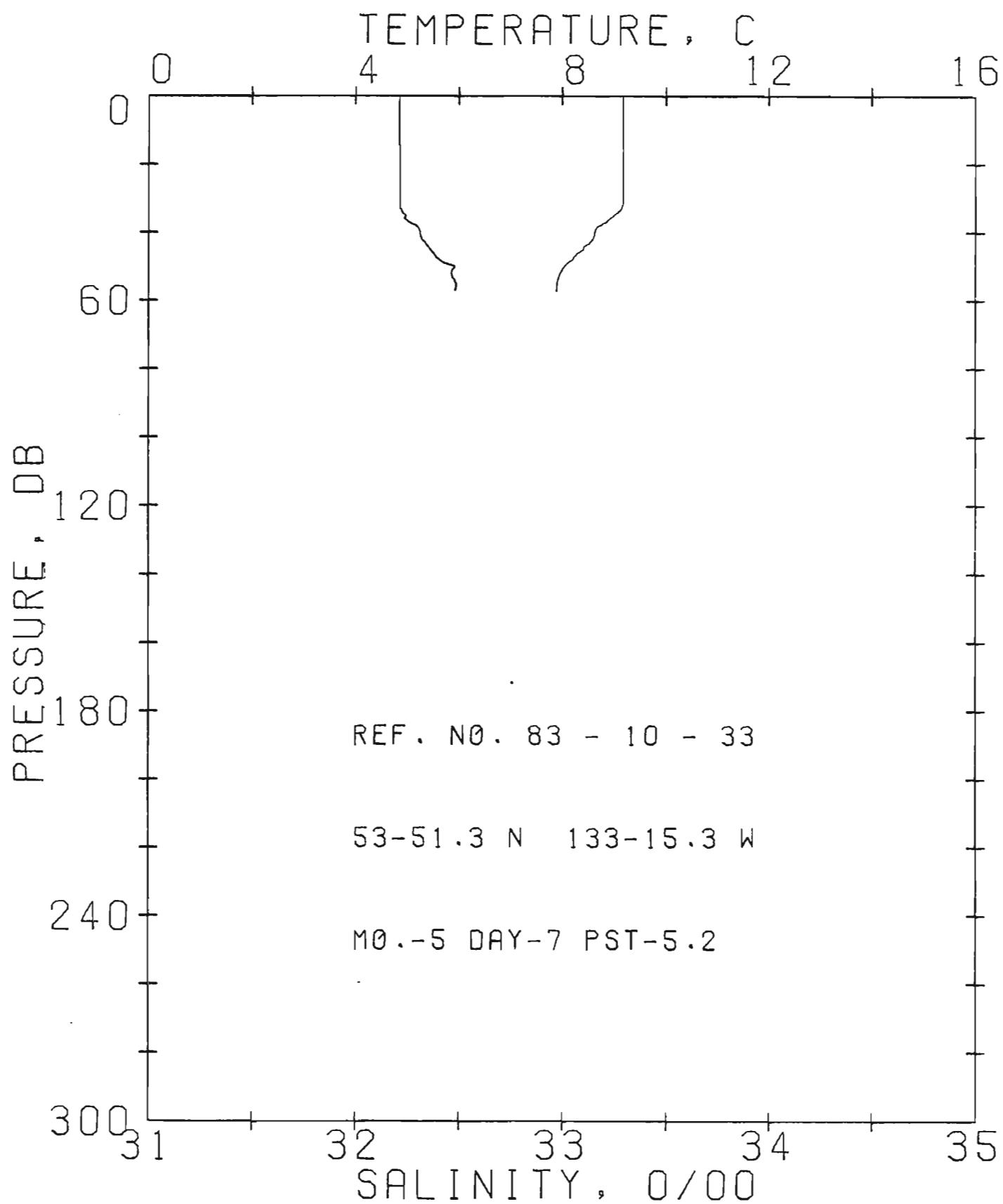
REFERENCE NO. 83-10- 32 DATE 7/ 5/83

POSITION 53-50.2N, 133-21.0W 4.7 STATION Q25

RESULTS OF STP CAST 165 POINTS TAKEN FROM DIGITAL SYSTEM

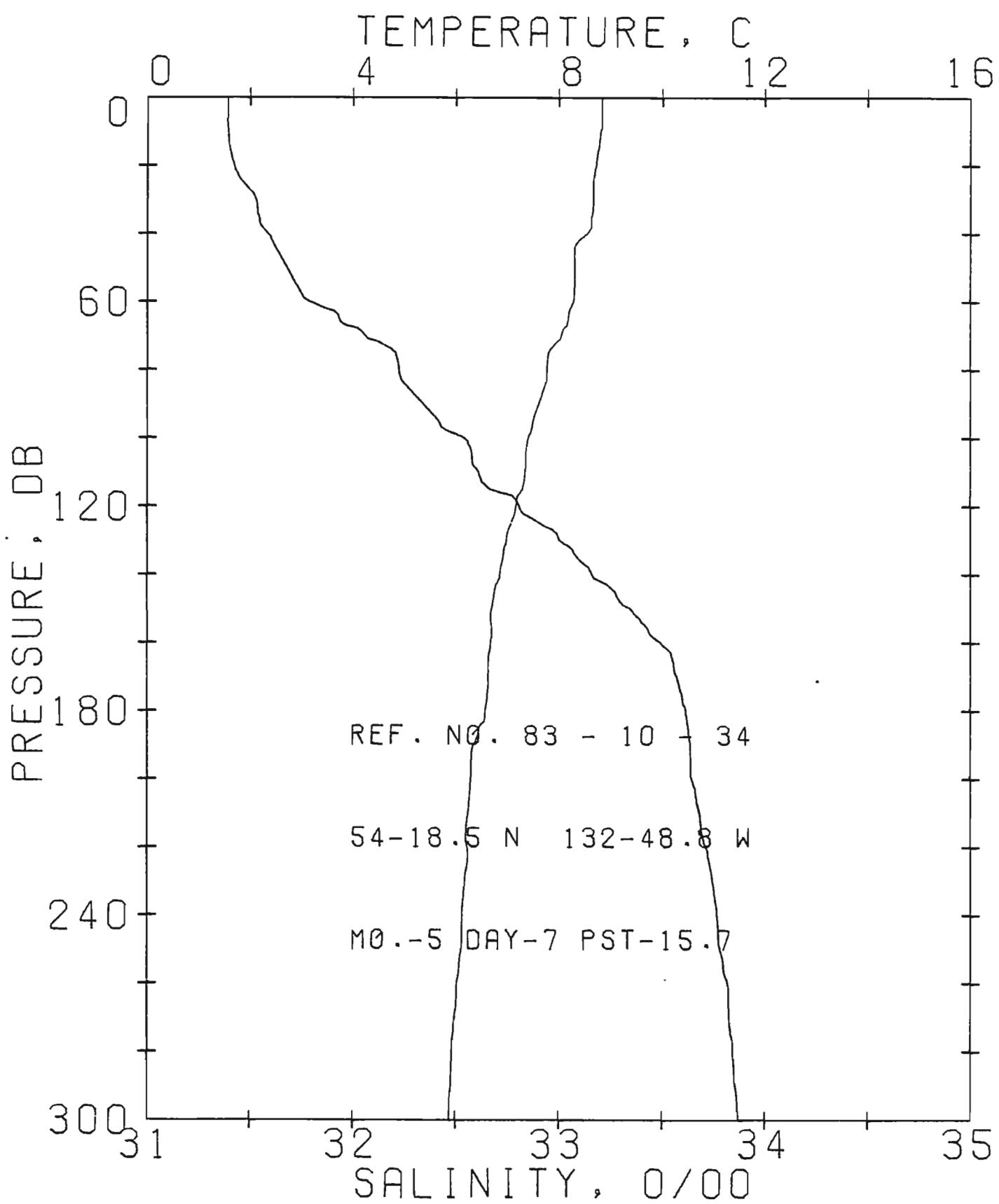
GUILDLINE WAS USED,PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	9.18	32.23	0	24.95	301.5	.00	.00	1484.
10	9.18	32.23	10	24.95	301.9	.30	.02	1484.
20	9.18	32.23	20	24.95	302.1	.60	.06	1484.
30	9.10	32.26	30	24.98	299.0	.91	.14	1484.
50	8.20	32.41	50	25.24	275.0	1.48	.37	1481.
75	7.73	32.49	75	25.37	262.9	2.15	.80	1480.
100	7.28	32.55	99	25.48	252.5	2.79	1.37	1479.
125	7.26	32.75	124	25.64	238.0	3.40	2.07	1479.
150	7.19	33.03	149	25.87	216.4	3.98	2.88	1480.



OFFSHORE OCEANOGRAPHY GROUP
REFERENCE NO. 83-10- 33 DATE 7/ 5/83
POSITION 53-51.3N, 133-15.3W 5.2 STATION Q26
RESULTS OF STP CAST 58 POINTS TAKEN FROM DIGITAL SYSTEM
GUILDLINE WAS USED,PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	9.17	32.22	0	24.94	302.4	.00	.00	1484.
10	9.17	32.21	10	24.94	302.8	.30	.02	1484.
20	9.18	32.22	20	24.94	303.0	.61	.06	1484.
30	9.17	32.22	30	24.94	303.0	.91	.14	1484.
50	8.04	32.48	50	25.32	267.3	1.49	.37	1481.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 83-10- 34 DATE 7/ 5/83

POSITION 54-18.5N, 132-48.8W 15.7 STATION Q27

RESULTS OF STP CAST 336 POINTS TAKEN FROM DIGITAL SYSTEM

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	8.83	31.39	0	24.35	358.7	.00	.00	1481.
10	8.81	31.39	10	24.35	358.5	.36	.02	1481.
20	8.72	31.42	20	24.39	355.1	.72	.07	1481.
30	8.67	31.53	30	24.48	346.8	1.07	.16	1481.
50	8.30	31.68	50	24.65	330.6	1.75	.44	1481.
75	7.80	32.21	75	25.14	284.6	2.53	.93	1480.
100	7.41	32.54	99	25.45	254.9	3.22	1.54	1479.
125	7.08	32.91	124	25.79	223.6	3.82	2.24	1479.
150	6.70	33.35	149	26.18	186.4	4.33	2.95	1478.
175	6.62	33.59	174	26.39	167.4	4.77	3.68	1479.
200	6.30	33.64	199	26.47	159.9	5.18	4.45	1478.
225	6.23	33.73	223	26.54	152.9	5.57	5.30	1478.
250	6.11	33.78	248	26.60	147.9	5.94	6.20	1478.
300	5.88	33.87	298	26.70	139.0	6.66	8.20	1478.

60

TEMPERATURE, C

0 4 8 12 16

PRESSURE, DB

0

60

120

180

240

300

REF. NO. 83 - 10 - 35

54-19.0 N 133-3.2 W

M0.-5 DAY-7 PST-17.0

31

32

33

34

35

SALINITY, P/PO

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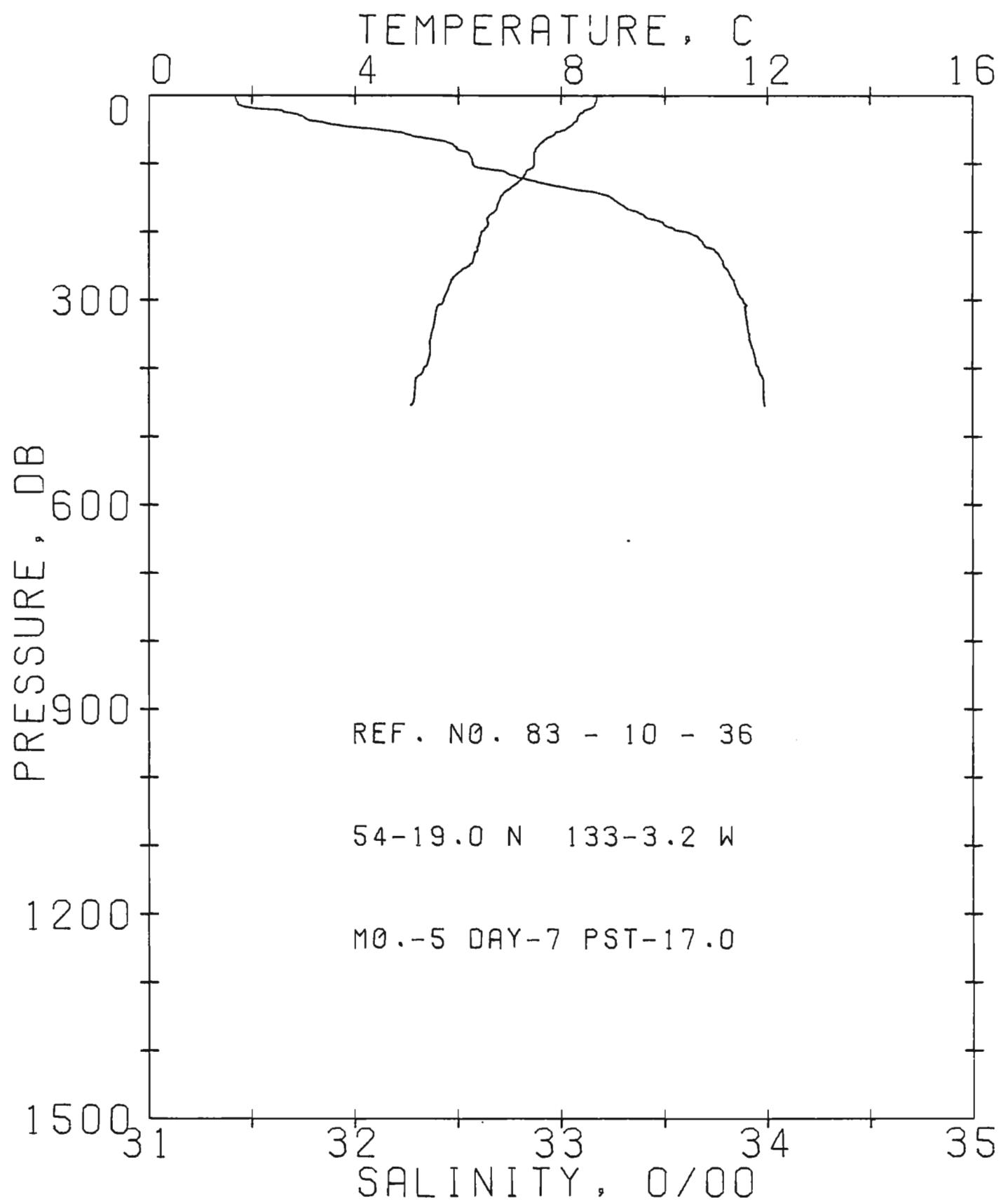
REFERENCE NO. 83-10- 35 DATE 7/ 5/83

POSITION 54-19.0N, 133- 3.2W 17.0 STATION Q28

RESULTS OF STP CAST 91 POINTS TAKEN FROM DIGITAL SYSTEM

GUILDLINE WAS USED,PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	8.67	31.45	0	24.42	352.2	.00	.00	1481.
10	8.66	31.46	10	24.43	351.5	.35	.02	1481.
20	8.51	31.66	20	24.60	334.6	.70	.07	1481.
30	8.32	31.78	30	24.73	322.8	1.03	.15	1480.
50	7.93	32.25	50	25.15	283.1	1.64	.40	1480.
75	7.53	32.52	75	25.42	257.9	2.31	.83	1479.
100	7.45	32.59	99	25.48	252.0	2.95	1.39	1479.



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REFERENCE NO. 83-10- 36 DATE 7/ 5/83

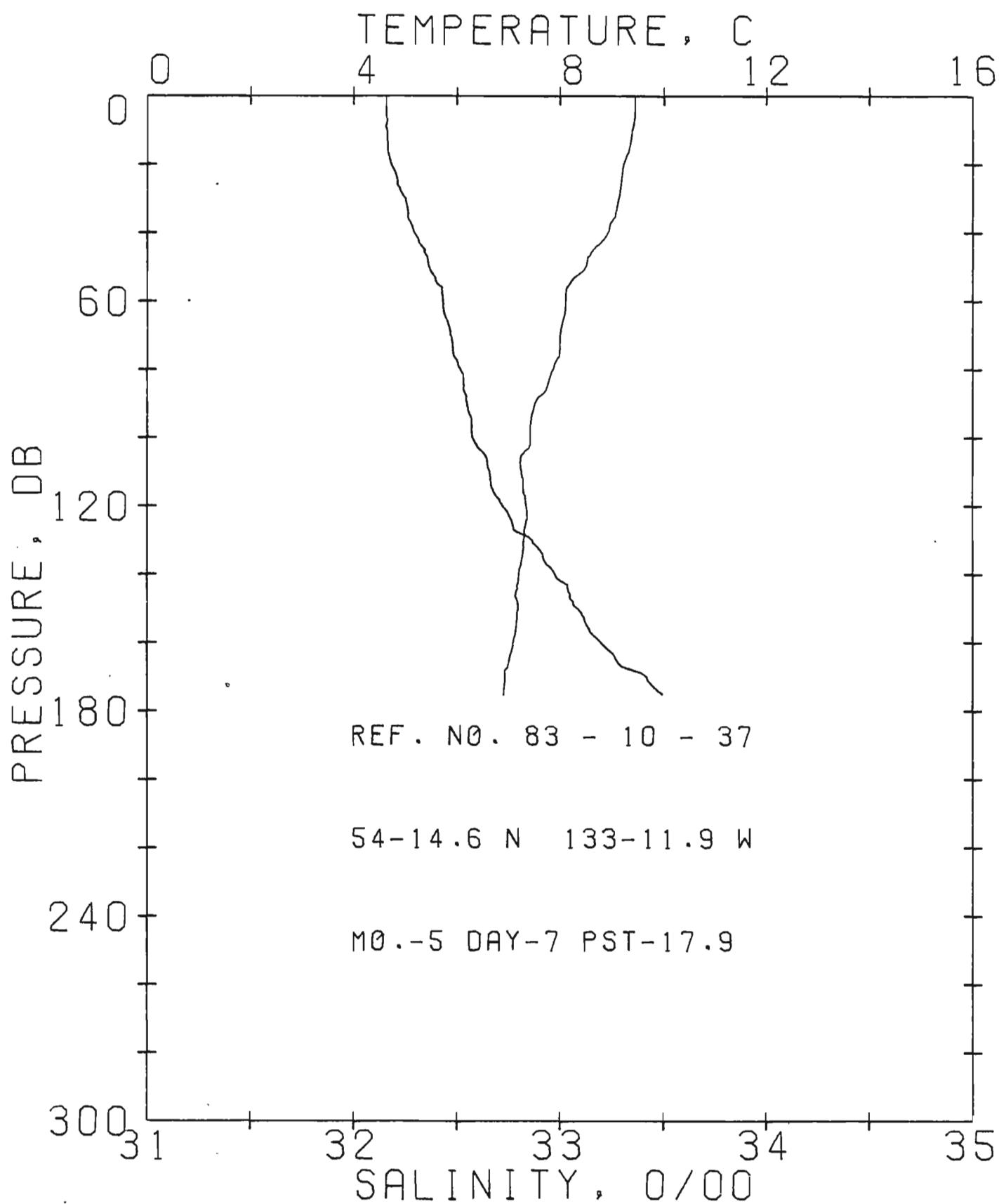
POSITION 54-19.0N, 133- 3.2W 17.0 STATION Q28

RESULTS OF STP CAST 390 POINTS TAKEN FROM DIGITAL SYSTEM

GUILDLINE WAS USED,PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	8.69	31.42	0	24.39	354.9	.00	.00	1481.
10	8.67	31.43	10	24.40	353.7	.35	.02	1481.
20	8.52	31.55	20	24.52	342.7	.71	.07	1481.
30	8.32	31.74	30	24.70	326.1	1.04	.16	1480.
50	8.08	32.12	50	25.03	294.5	1.67	.41	1480.
75	7.55	32.49	75	25.39	260.6	2.35	.85	1479.
100	7.48	32.57	99	25.47	253.4	2.99	1.42	1479.
125	7.18	32.87	124	25.74	227.9	3.60	2.11	1479.
150	6.82	33.24	149	26.08	195.6	4.12	2.84	1478.
175	6.61	33.40	174	26.23	181.7	4.60	3.63	1478.
200	6.45	33.61	199	26.42	164.4	5.03	4.46	1478.
225	6.37	33.74	223	26.53	153.9	5.43	5.32	1479.
250	6.21	33.79	248	26.59	148.5	5.81	6.24	1478.
300	5.71	33.89	298	26.73	135.9	6.51	8.21	1477.
400	5.33	33.96	397	26.83	126.9	7.83	12.90	1478.

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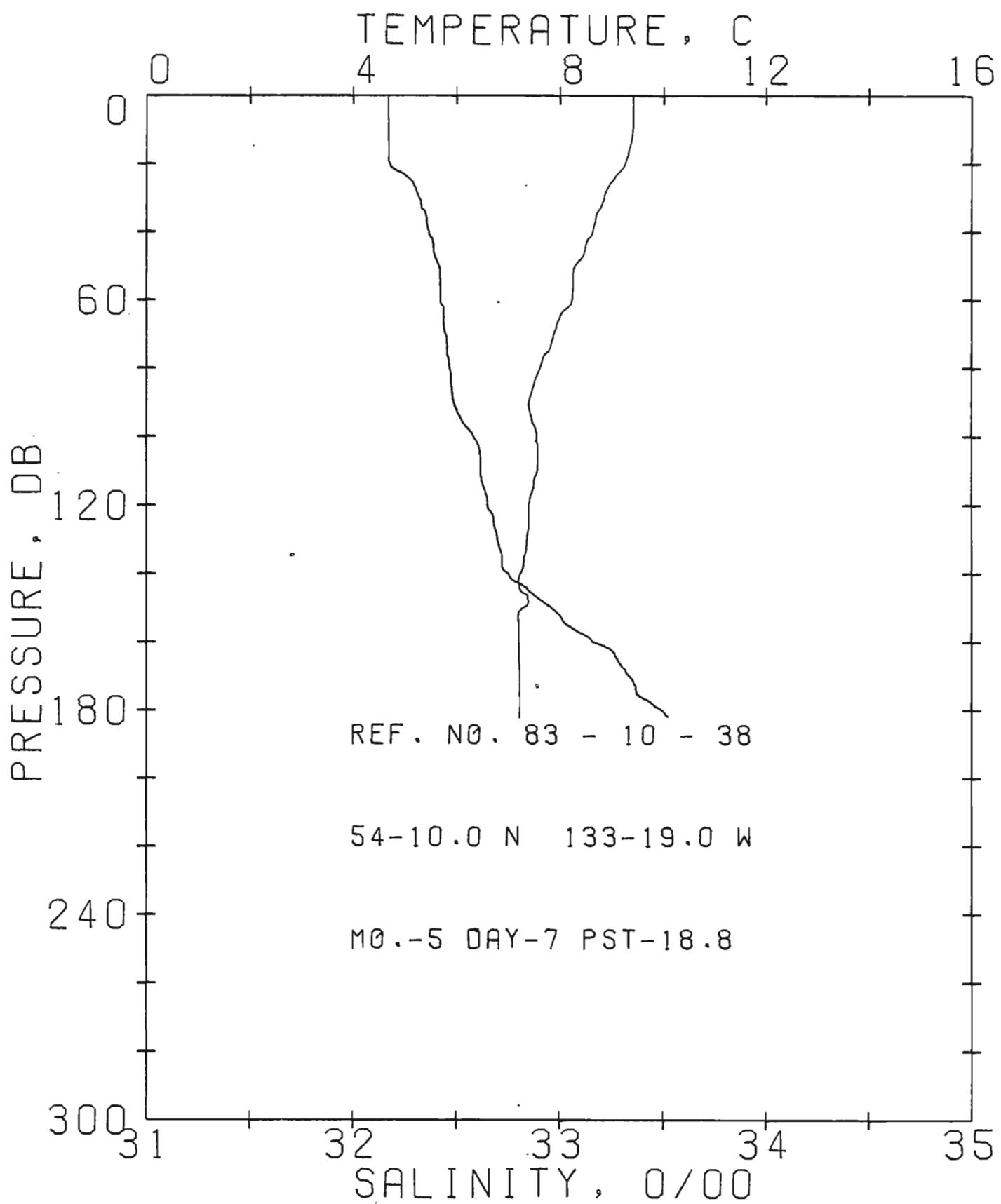
REFERENCE NO. 83-10- 37 DATE 7/ 5/83

POSITION 54-14.6N, 133-11.9W 17.9 STATION Q29

RESULTS OF STP CAST 176 POINTS TAKEN FROM DIGITAL SYSTEM

GUILDLINE WAS USED,PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	9.45	32.16	0	24.85	310.7	.00	.00	1485.
10	9.39	32.17	10	24.86	309.7	.31	.02	1485.
20	9.23	32.19	20	24.91	305.9	.62	.06	1484.
30	9.13	32.25	30	24.97	299.6	.92	.14	1484.
50	8.50	32.37	50	25.16	282.4	1.51	.38	1482.
75	8.00	32.48	75	25.32	266.9	2.19	.81	1481.
100	7.43	32.58	99	25.48	252.6	2.83	1.38	1479.
125	7.35	32.77	124	25.64	237.5	3.44	2.08	1480.
150	7.19	33.09	149	25.91	212.2	4.00	2.86	1480.
175	6.91	33.50	174	26.27	178.3	4.49	3.68	1480.



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REFERENCE NO. 83-10- 38 DATE 7/ 5/83

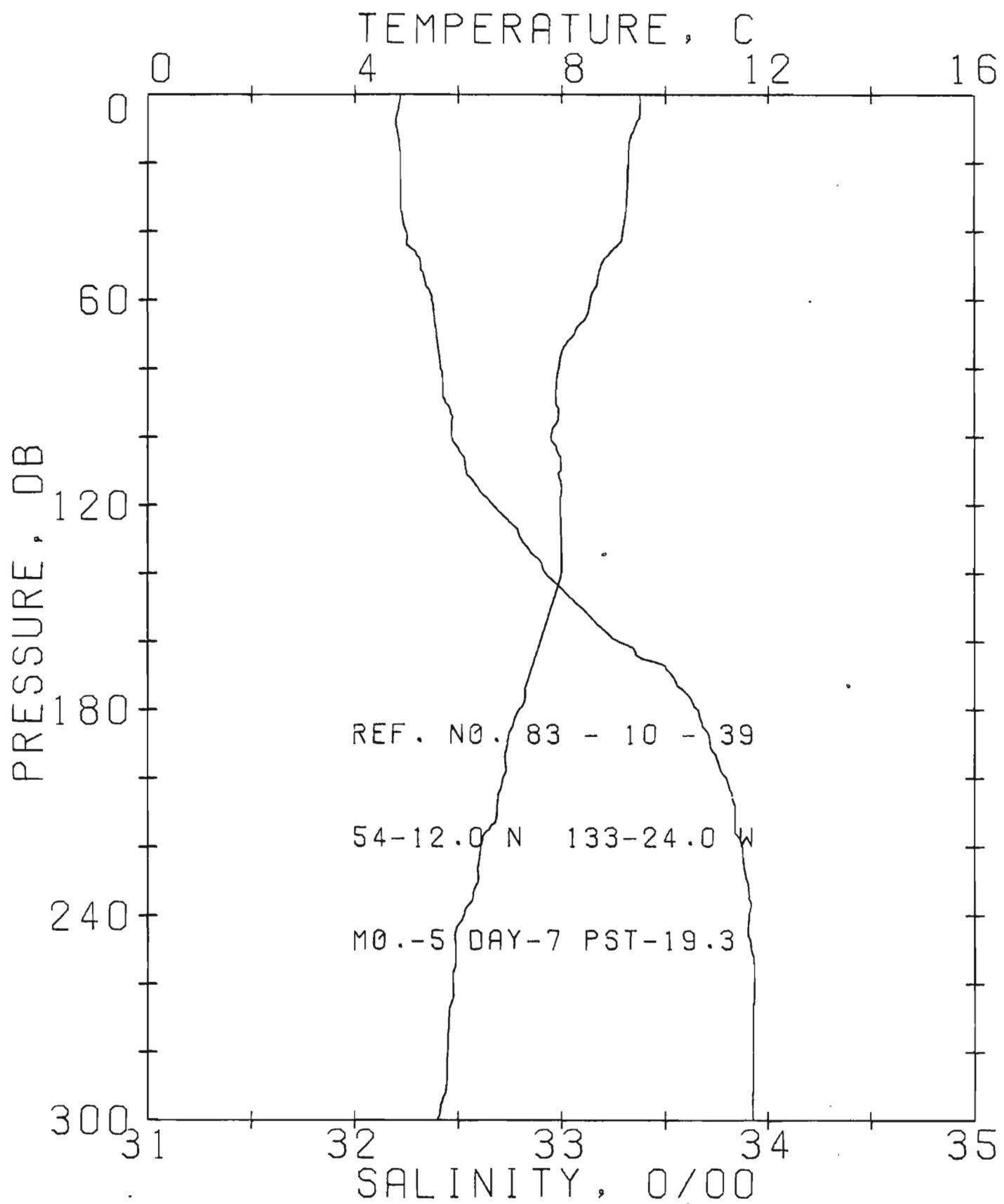
POSITION 54-10.0N, 133-19.0W 18.8 STATION Q30

RESULTS OF STP CAST 183 POINTS TAKEN FROM DIGITAL SYSTEM

GUILDLINE WAS USED,PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	9.41	32.17	0	24.87	309.5	.00	.00	1485.
10	9.41	32.17	10	24.87	309.5	.31	.02	1485.
20	9.26	32.18	20	24.90	306.9	.62	.06	1484.
30	8.86	32.32	30	25.07	290.6	.92	.14	1483.
50	8.29	32.42	50	25.23	275.6	1.48	.37	1481.
75	7.78	32.45	75	25.33	266.2	2.16	.80	1480.
100	7.55	32.58	99	25.47	253.8	2.81	1.38	1480.
125	7.41	32.68	124	25.56	244.9	3.43	2.09	1480.
150	7.28	32.96	149	25.80	222.5	4.03	2.93	1480.
175	7.22	33.37	174	26.13	191.9	4.54	3.77	1481.

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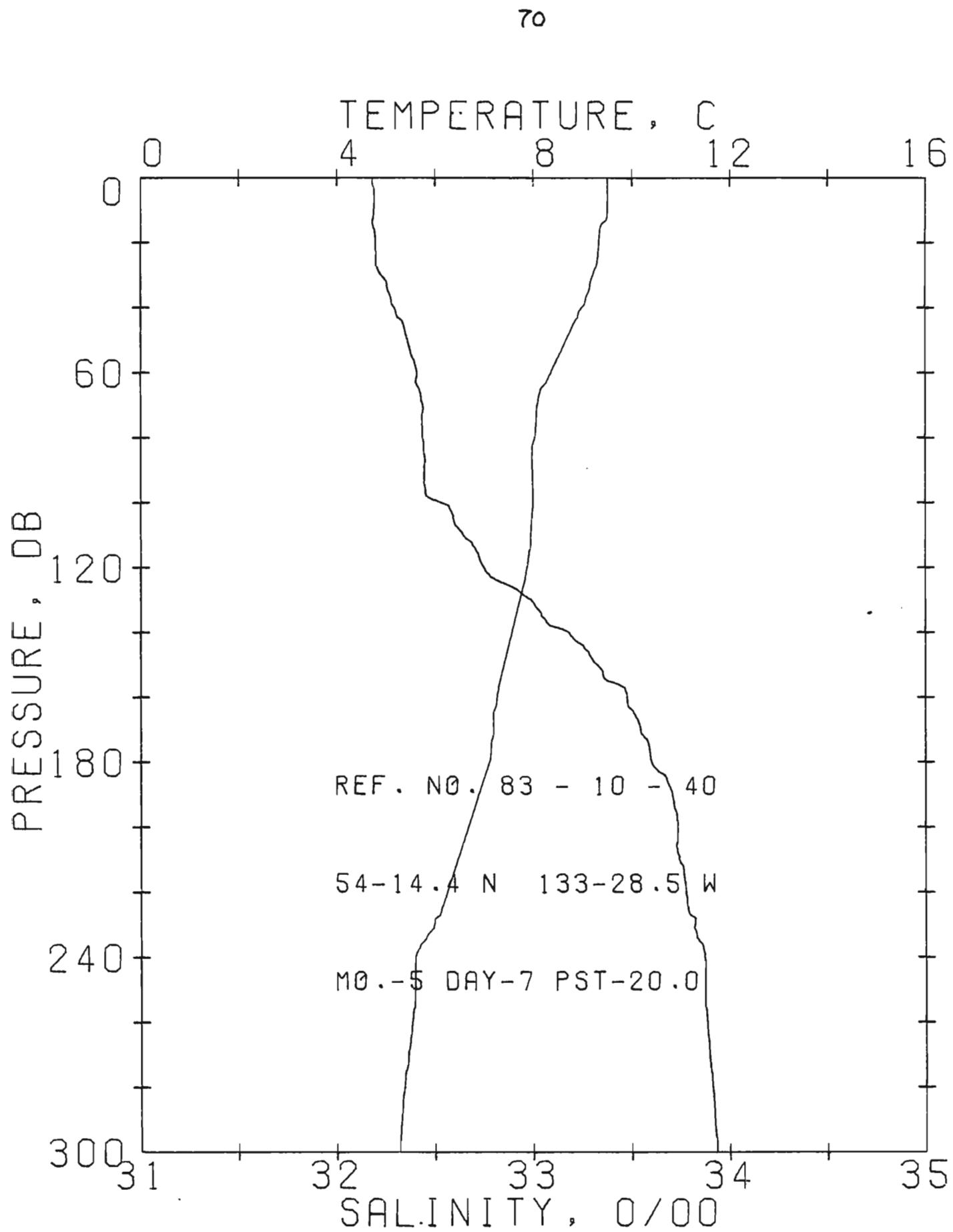
REFERENCE NO. 83-10- 39 DATE 7/ 5/83

POSITION 54-12.0N, 133-24.0W 19.3 STATION Q31

RESULTS OF STP CAST 401 POINTS TAKEN FROM DIGITAL SYSTEM

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	9.51	32.22	0	24.89	307.2	.00	.00	1485.
10	9.39	32.20	10	24.89	306.9	.31	.02	1485.
20	9.29	32.22	20	24.93	304.1	.61	.06	1485.
30	9.26	32.22	30	24.93	303.8	.92	.14	1485.
50	8.76	32.32	50	25.08	289.6	1.52	.38	1483.
75	8.00	32.40	75	25.26	272.8	2.22	.83	1481.
100	7.79	32.47	99	25.34	265.5	2.89	1.43	1480.
125	7.99	32.75	124	25.53	247.9	3.54	2.17	1482.
150	7.79	33.09	149	25.83	220.1	4.13	3.00	1482.
175	7.30	33.60	174	26.30	176.2	4.63	3.82	1481.
200	6.86	33.80	199	26.51	155.8	5.04	4.60	1480.
225	6.39	33.88	223	26.64	143.7	5.41	5.41	1479.
250	5.96	33.92	248	26.72	135.9	5.76	6.26	1478.
300	5.58	33.93	298	26.78	131.1	6.43	8.13	1477.
400	5.06	33.97	397	26.88	122.8	7.69	12.61	1476.



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REFERENCE NO. 83-10- 40 DATE 7/ 5/83

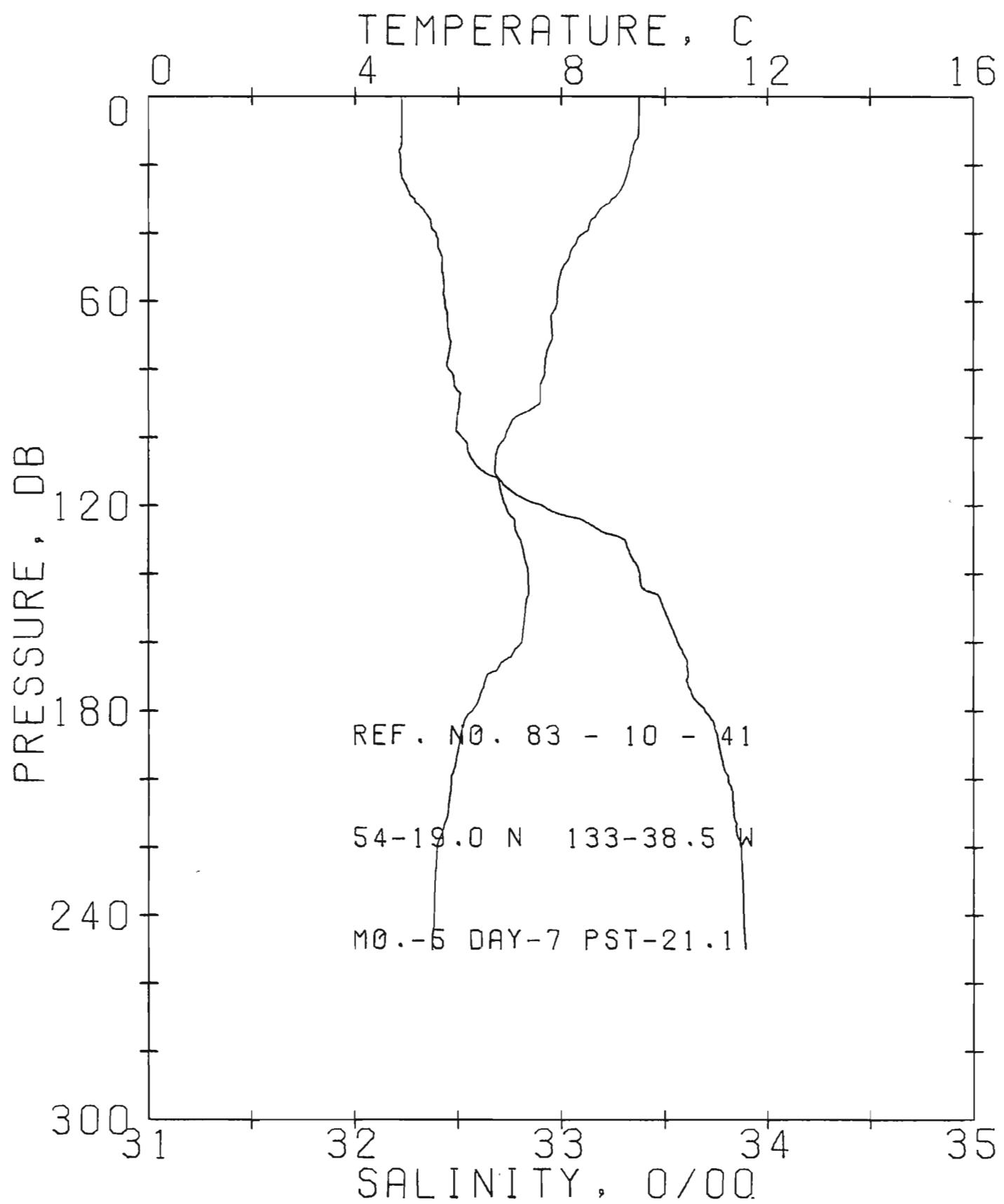
POSITION 54-14.4N, 133-28.5W 20.0 STATION Q32

RESULTS OF STP CAST 392 POINTS TAKEN FROM DIGITAL SYSTEM

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA	SVA	DELTA	POT.	SOUND
				T		D	EN	
0	9.50	32.19	0	24.86	309.7	.00	.00	1485.
10	9.51	32.19	10	24.86	309.7	.31	.02	1485.
20	9.34	32.20	20	24.90	306.5	.62	.06	1485.
30	9.21	32.23	30	24.94	302.8	.92	.14	1484.
50	8.67	32.36	50	25.13	285.2	1.51	.38	1483.
75	8.06	32.43	75	25.28	271.6	2.20	.82	1481.
100	8.00	32.53	99	25.36	263.9	2.88	1.42	1481.
125	7.81	32.86	124	25.64	237.3	3.51	2.14	1481.
150	7.41	33.33	149	26.07	197.3	4.05	2.90	1481.
175	7.15	33.59	174	26.31	174.8	4.51	3.66	1481.
200	6.68	33.73	199	26.49	158.3	4.92	4.45	1479.
225	6.13	33.79	223	26.60	147.5	5.31	5.28	1478.
250	5.59	33.87	248	26.74	134.7	5.65	6.11	1476.
300	5.27	33.93	298	26.82	127.0	6.31	7.94	1476.
400	4.91	34.02	397	26.93	117.1	7.53	12.27	1476.

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REFERENCE NO. 83-10- 41

DATE 7/ 5/83

POSITION 54-19.0N, 133-38.5W

21.1

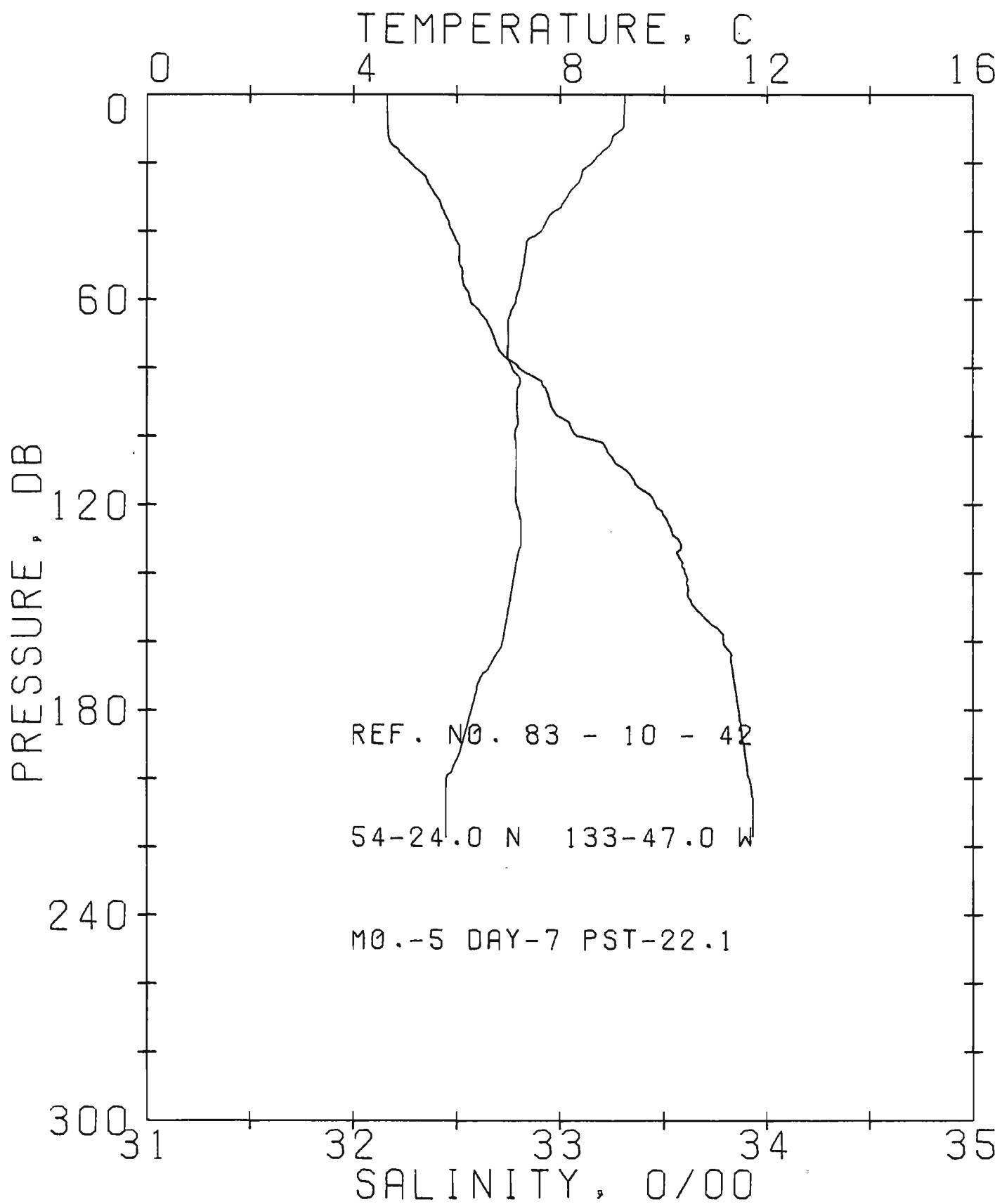
STATION Q33

RESULTS OF STP CAST 240 POINTS TAKEN FROM DIGITAL SYSTEM

GUIDELINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	9.50	32.23	0	24.89	306.8	.00	.00	1485.
10	9.50	32.23	10	24.90	306.7	.31	.02	1485.
20	9.32	32.22	20	24.92	304.8	.61	.06	1485.
30	8.98	32.29	30	25.03	294.6	.91	.14	1484.
50	8.04	32.42	50	25.27	272.1	1.48	.37	1481.
75	7.72	32.46	75	25.34	265.1	2.15	.79	1480.
100	6.92	32.52	99	25.50	250.0	2.79	1.37	1477.
125	7.10	33.13	124	25.96	207.6	3.38	2.04	1479.
150	7.32	33.50	149	26.21	183.5	3.86	2.72	1481.
175	6.44	33.63	174	26.44	162.2	4.30	3.43	1478.
200	5.87	33.81	199	26.65	142.2	4.67	4.15	1476.
225	5.58	33.87	223	26.74	134.2	5.02	4.89	1476.
250	5.49	33.89	248	26.76	132.0	5.35	5.70	1476.

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REFERENCE NO. 83-10- 42

DATE 7/ 5/83

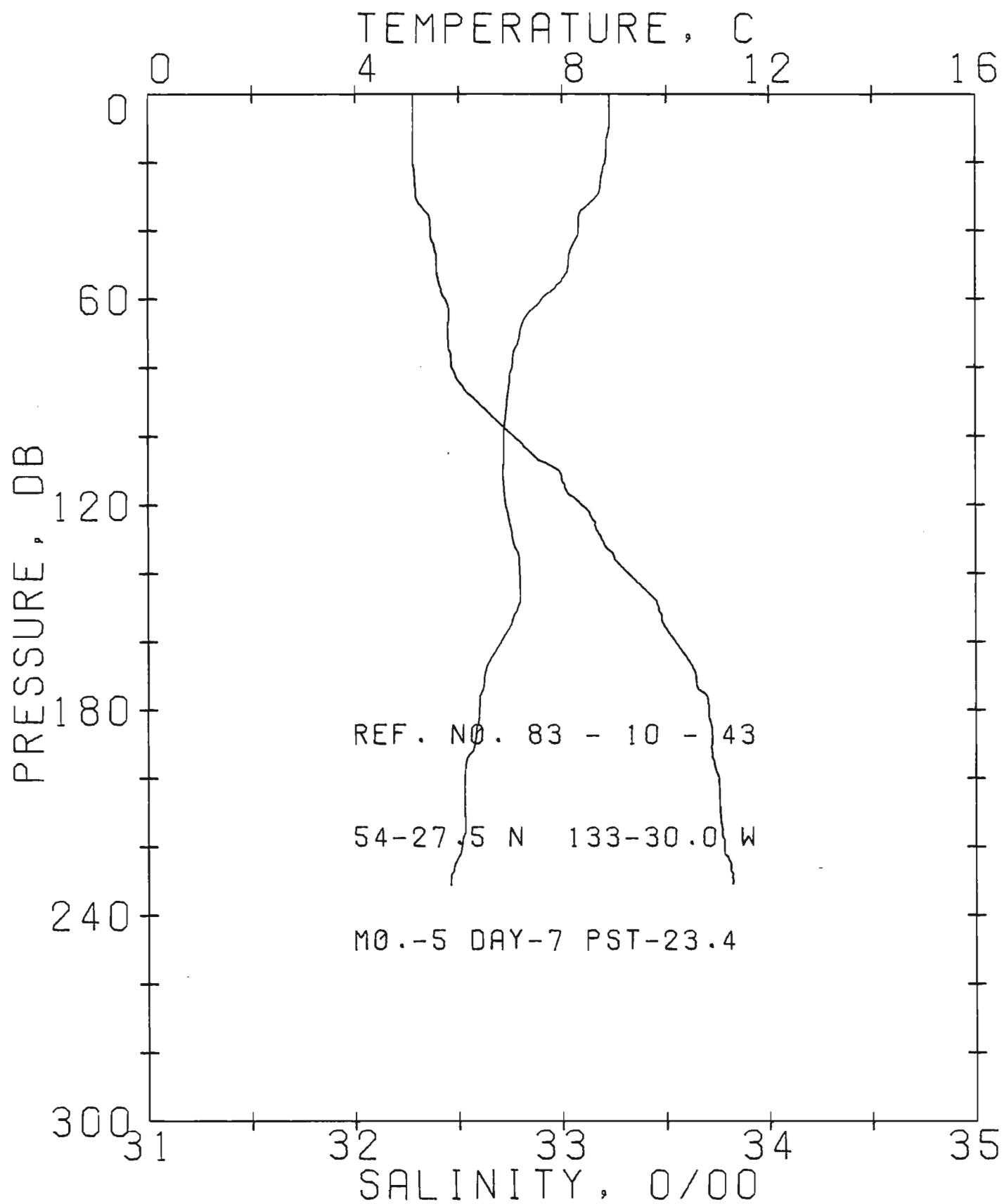
POSITION 54-24.0N, 133-47.0W 22.1 STATION Q34

RESULTS OF STP CAST 218 POINTS TAKEN FROM DIGITAL SYSTEM

GUIDELINE WAS USED,PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	9.25	32.17	0	24.89	307.4	.00	.00	1484.
10	9.21	32.17	10	24.90	306.7	.31	.02	1484.
20	8.62	32.28	20	25.07	290.2	.61	.06	1482.
30	8.14	32.41	30	25.24	274.0	.89	.13	1481.
50	7.30	32.52	50	25.45	254.6	1.41	.35	1478.
75	6.99	32.71	75	25.64	236.7	2.03	.74	1477.
100	7.12	33.08	99	25.92	210.9	2.58	1.23	1479.
125	7.25	33.52	124	26.24	180.3	3.06	1.78	1480.
150	7.01	33.65	149	26.38	167.9	3.50	2.39	1480.
175	6.37	33.85	174	26.62	145.1	3.89	3.03	1478.
200	5.79	33.91	199	26.74	133.5	4.23	3.70	1476.

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REFERENCE NO. 83-10- 43 DATE 7/ 5/83

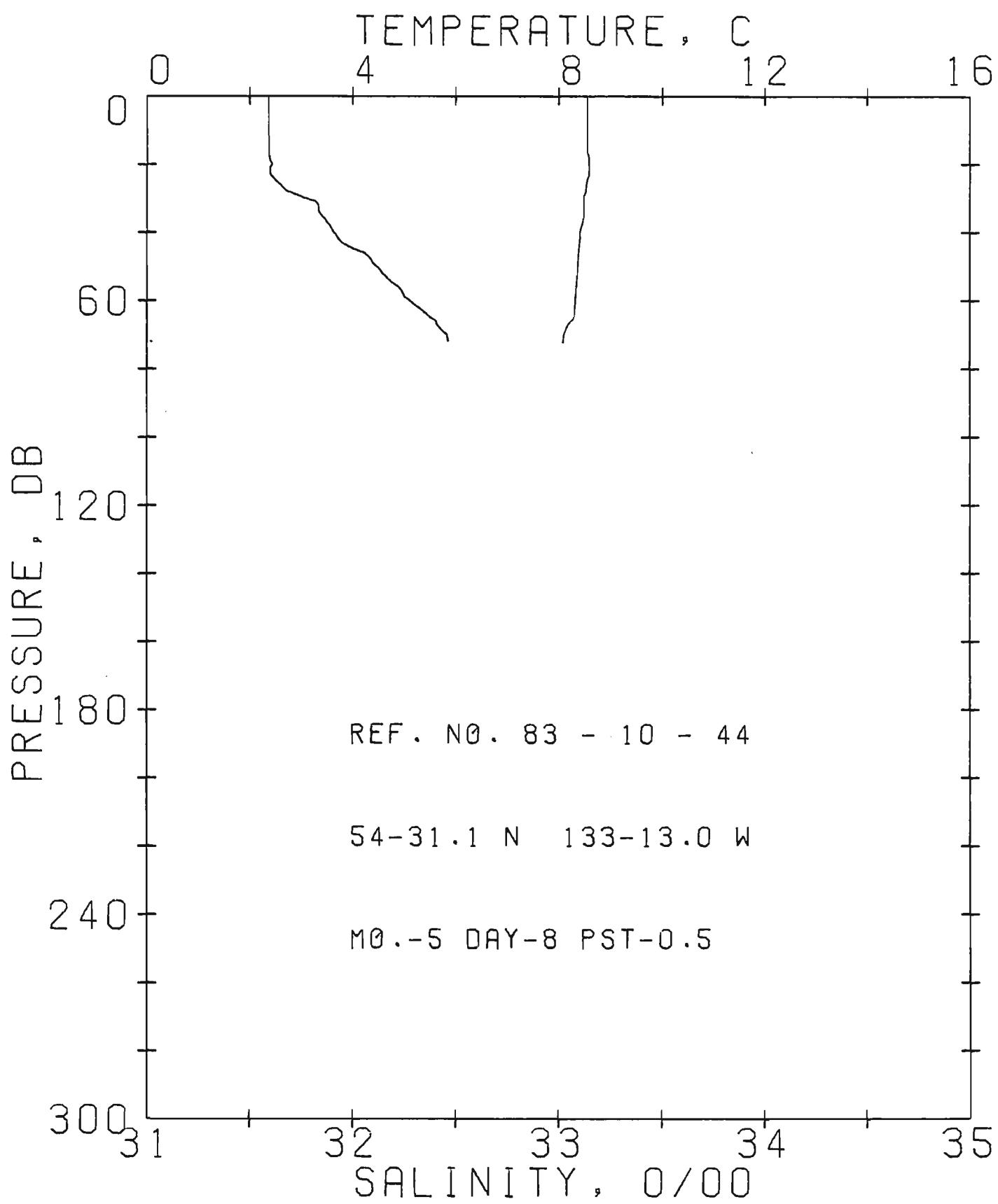
POSITION 54-27.5N, 133-30.0W 23.4 STATION Q35

RESULTS OF STP CAST 210 POINTS TAKEN FROM DIGITAL SYSTEM

GUILDLINE WAS USED,PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	8.92	32.28	0	25.03	293.9	.00	.00	1483.
10	8.92	32.28	10	25.03	294.0	.29	.01	1483.
20	8.84	32.28	20	25.04	293.5	.59	.06	1483.
30	8.67	32.29	30	25.08	289.9	.88	.13	1482.
50	8.13	32.39	50	25.23	275.2	1.44	.36	1481.
75	7.08	32.46	75	25.43	256.7	2.10	.78	1477.
100	6.86	32.77	99	25.71	230.9	2.72	1.33	1477.
125	6.97	33.16	124	26.00	203.4	3.26	1.95	1479.
150	7.15	33.47	149	26.21	183.5	3.74	2.63	1480.
175	6.44	33.69	174	26.48	158.2	4.17	3.33	1478.
200	6.11	33.76	199	26.58	149.1	4.56	4.07	1477.
225	5.92	33.82	223	26.65	142.7	4.93	4.87	1477.

78



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 83-10- 44 DATE 8/ 5/83

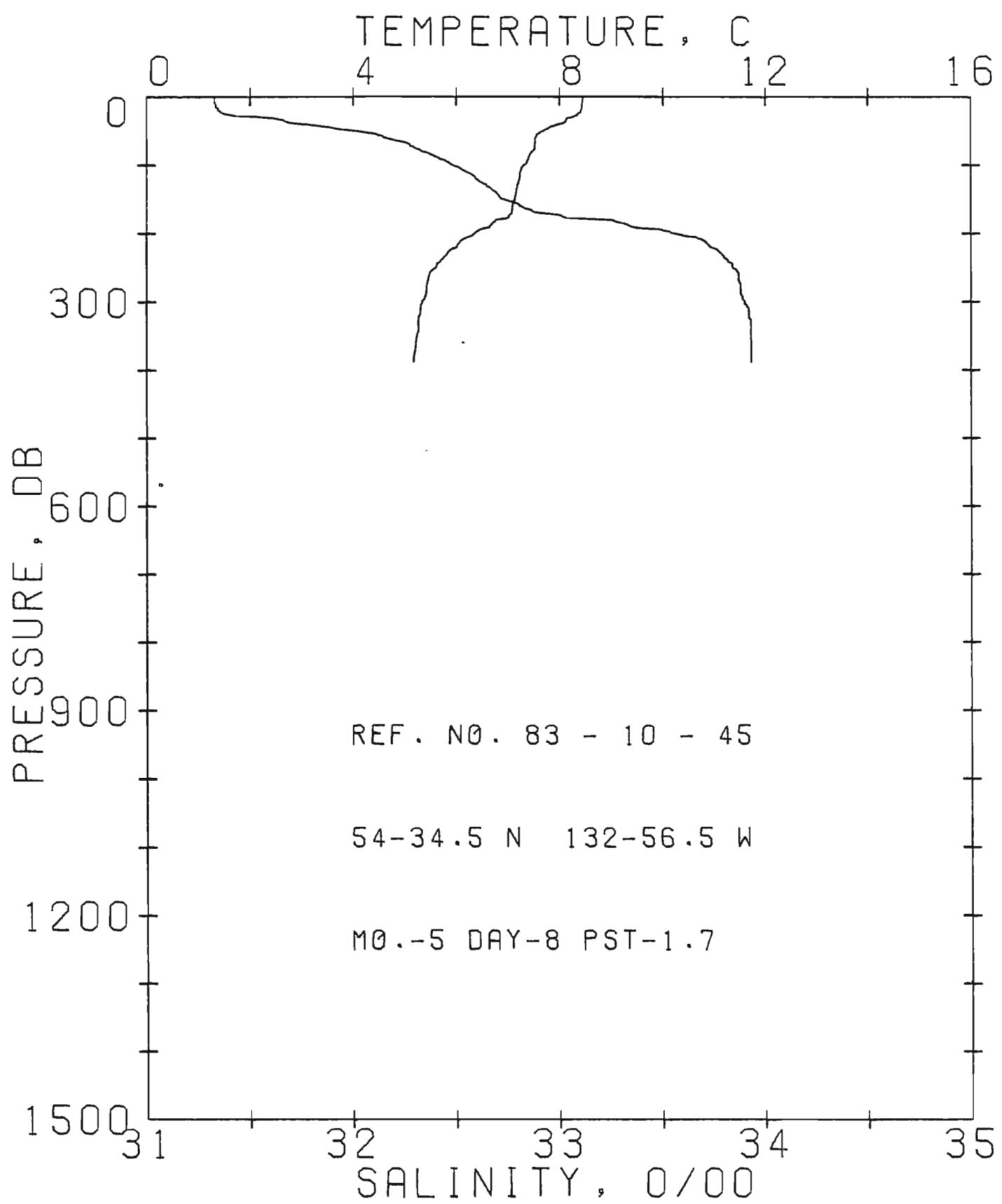
POSITION 54-31.1N, 133-13.0W .5 STATION Q36

RESULTS OF STP CAST 73 POINTS TAKEN FROM DIGITAL SYSTEM

GUILDLINE WAS USED,PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	8.55	31.59	0	24.55	339.9	.00	.00	1481.
10	8.55	31.59	10	24.55	340.1	.34	.02	1481.
20	8.59	31.61	20	24.56	339.3	.68	.07	1481.
30	8.48	31.77	30	24.70	326.1	1.02	.15	1481.
50	8.37	32.12	50	24.99	298.7	1.64	.41	1481.
75	8.06	32.47	75	25.30	268.9	2.35	.86	1481.

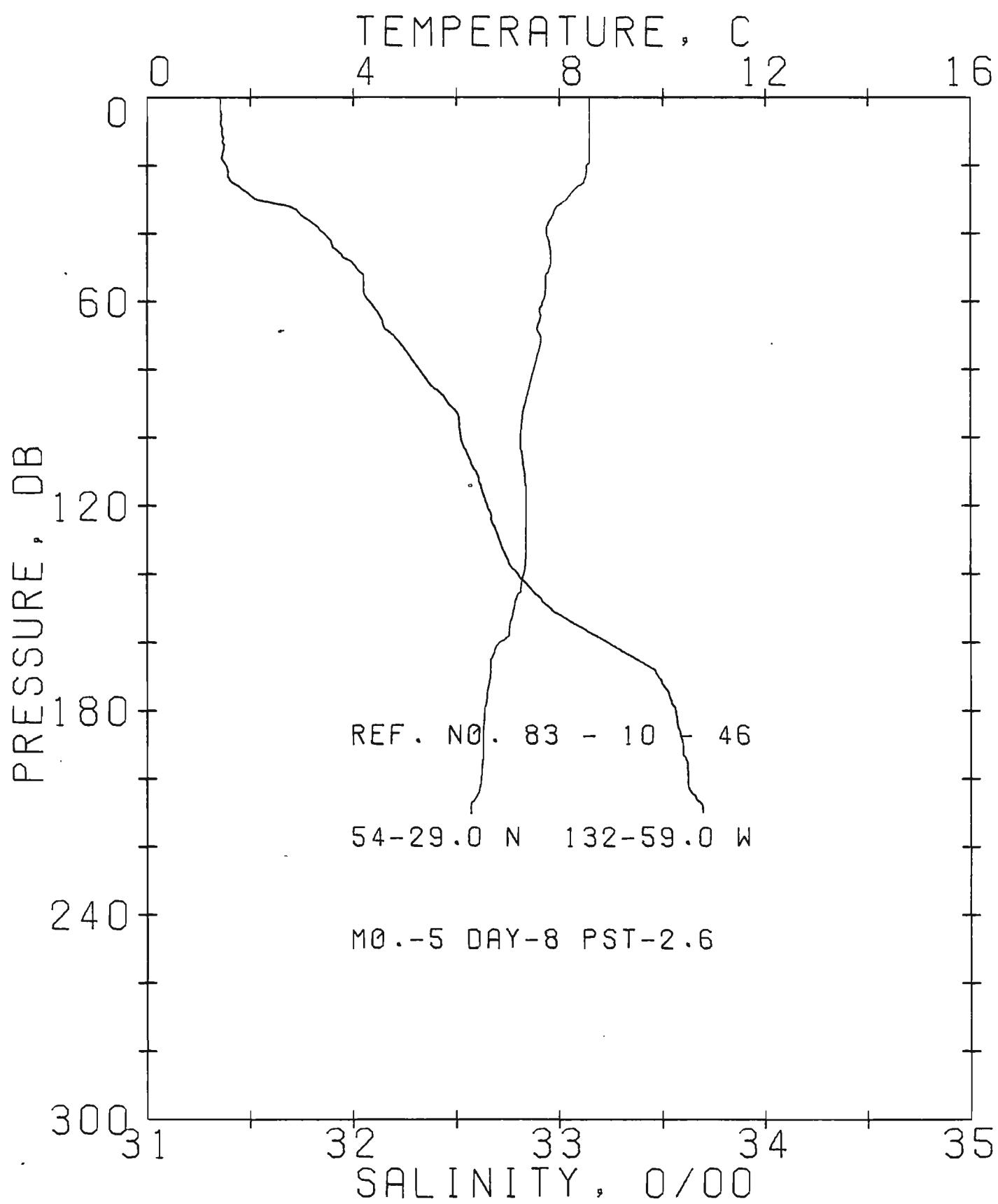
80



OFFSHORE OCEANOGRAPHY GROUP
 REFERENCE NO. 83-10- 45 DATE 8/ 5/83
 POSITION 54-34.5N, 132-56.5W 1.7 STATION Q37
 RESULTS OF STP CAST 250 POINTS TAKEN FROM DIGITAL SYSTEM
 GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA	SVA	DELTA	POT.	SOUND
				T		D	EN	
0	8.46	31.33	0	24.35	358.2	.00	.00	1480.
10	8.44	31.34	10	24.36	357.5	.36	.02	1480.
20	8.42	31.35	20	24.38	356.4	.72	.07	1480.
30	8.23	31.59	30	24.59	336.0	1.06	.16	1480.
50	7.67	32.03	50	25.02	295.9	1.70	.42	1479.
75	7.54	32.31	75	25.25	273.7	2.40	.87	1479.
100	7.31	32.49	99	25.43	257.5	3.07	1.46	1479.
125	7.21	32.63	124	25.55	246.4	3.69	2.17	1479.
150	7.13	32.74	149	25.65	237.1	4.30	3.02	1479.
175	7.02	33.02	174	25.88	215.2	4.87	3.96	1479.
200	6.35	33.57	199	26.40	165.9	5.33	4.85	1478.
225	5.87	33.77	223	26.62	145.4	5.72	5.68	1477.
250	5.59	33.85	248	26.72	136.7	6.07	6.53	1476.
300	5.34	33.90	298	26.79	130.2	6.73	8.39	1476.
400	5.18	33.93	397	26.83	127.0	8.02	12.96	1477.

82



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OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 83-10- 46 DATE 8/ 5/83

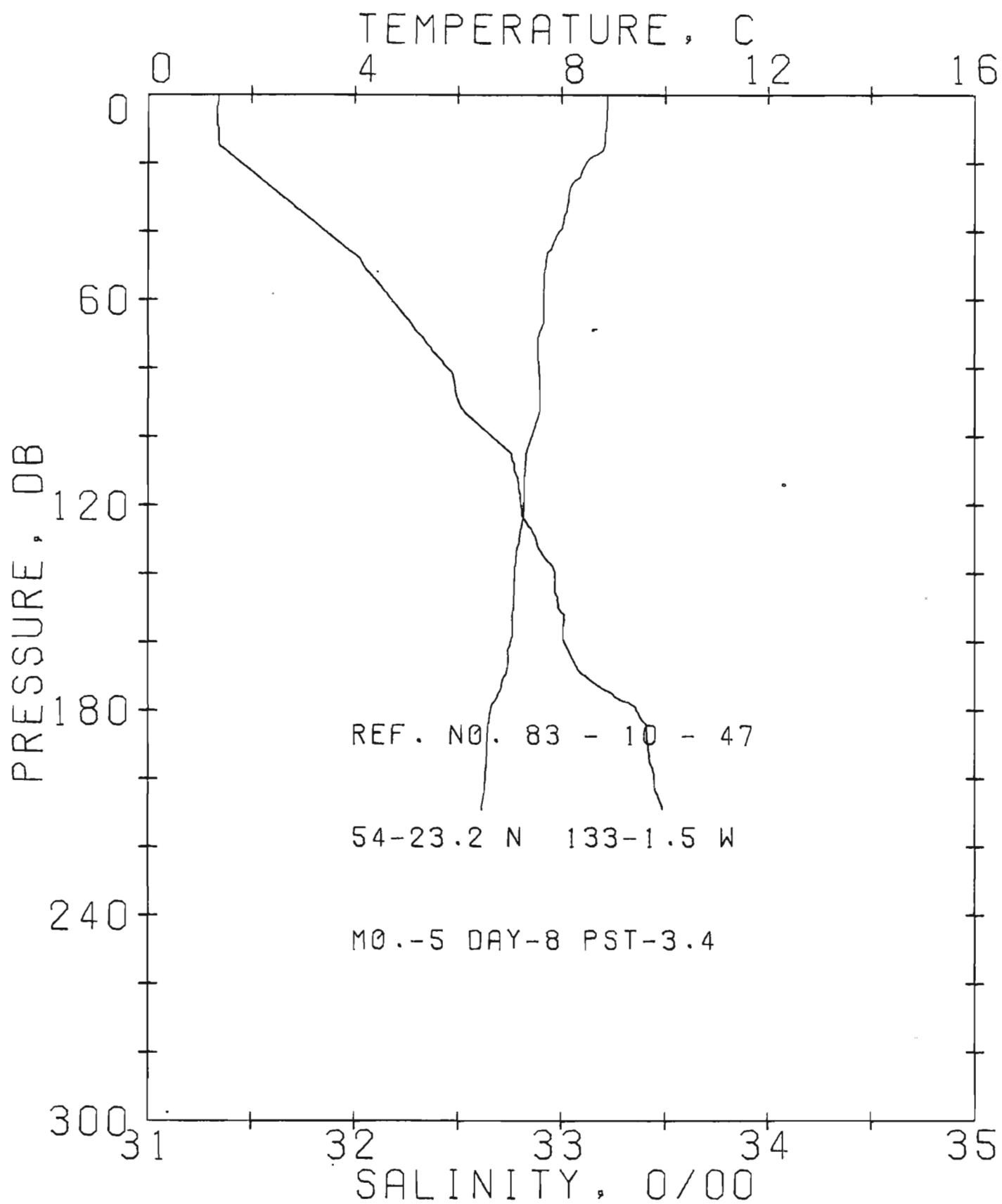
POSITION 54-29.0N, 132-59.0W 2.6 STATION Q38

RESULTS OF STP CAST 200 POINTS TAKEN FROM DIGITAL SYSTEM

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	8.58	31.35	0	24.36	358.0	.00	.00	1480.
10	8.59	31.36	10	24.36	357.5	.36	.02	1481.
20	8.52	31.39	20	24.39	354.9	.72	.07	1481.
30	8.15	31.53	30	24.56	339.3	1.06	.16	1479.
50	7.82	32.02	50	24.98	298.8	1.69	.42	1479.
75	7.60	32.26	75	25.21	277.8	2.41	.87	1479.
100	7.24	32.52	99	25.46	254.1	3.07	1.46	1478.
125	7.36	32.68	124	25.57	244.6	3.69	2.17	1479.
150	7.12	32.96	149	25.82	220.6	4.28	3.00	1479.
175	6.60	33.53	174	26.34	171.7	4.76	3.79	1478.
200	6.48	33.63	199	26.43	163.5	5.18	4.59	1478.

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REFERENCE NO. 83-10- 47 DATE 8/ 5/83

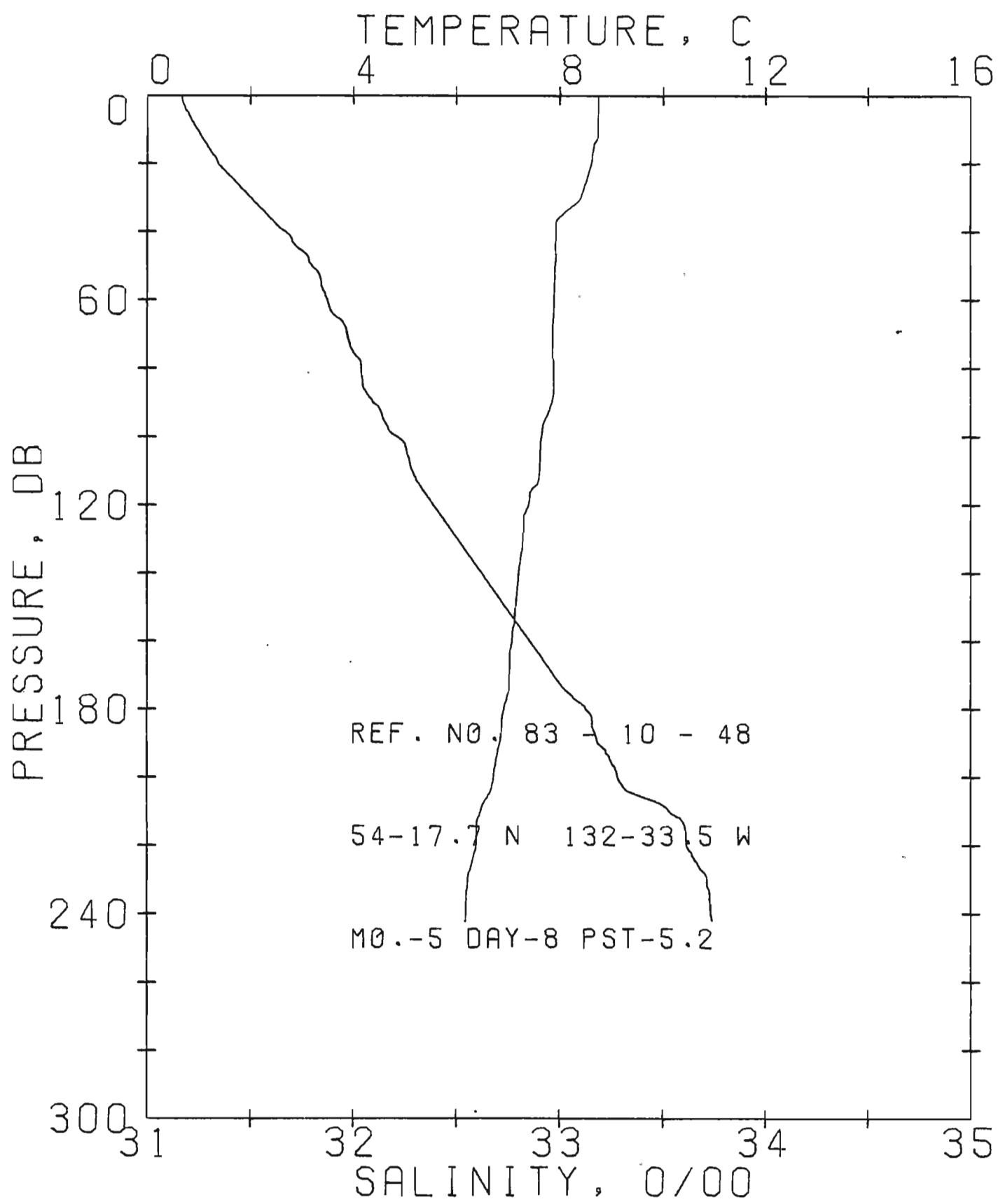
POSITION 54-23.2N, 133- 1.5W 3.4 STATION Q39

RESULTS OF STP CAST 199 POINTS TAKEN FROM DIGITAL SYSTEM

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	8.88	31.34	0	24.30	363.3	.00	.00	1482.
10	8.86	31.34	10	24.30	363.0	.36	.02	1482.
20	8.47	31.45	20	24.45	349.3	.72	.07	1480.
30	8.14	31.66	30	24.66	329.6	1.06	.16	1480.
50	7.70	32.05	50	25.02	295.0	1.69	.41	1479.
75	7.54	32.38	75	25.31	268.5	2.39	.86	1479.
100	7.43	32.67	99	25.55	245.8	3.04	1.44	1479.
125	7.25	32.84	124	25.70	231.4	3.63	2.11	1479.
150	7.08	32.98	149	25.84	218.4	4.19	2.89	1479.
175	6.78	33.25	174	26.09	195.3	4.71	3.77	1479.
200	6.53	33.45	199	26.28	177.5	5.17	4.64	1478.

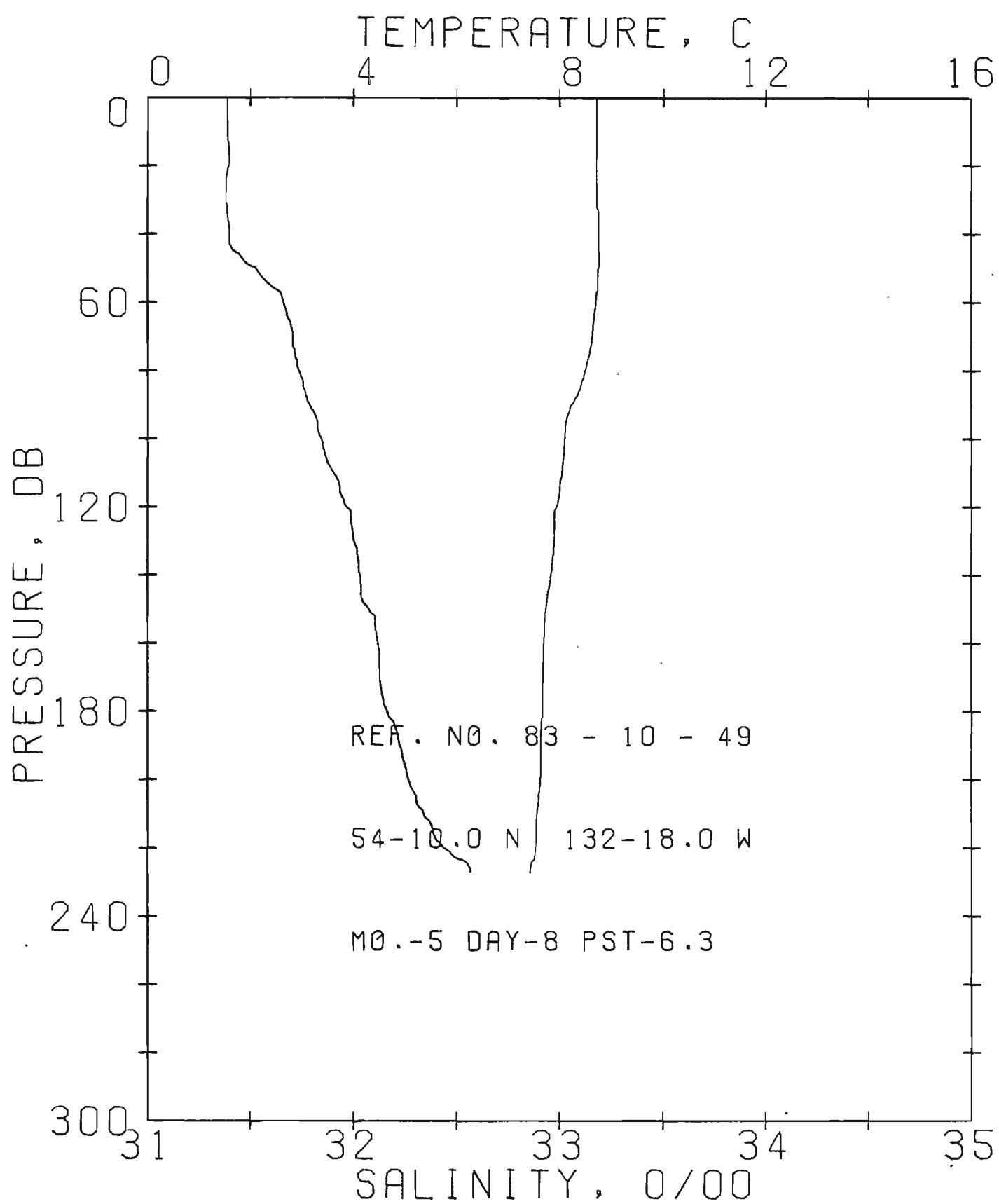
86



OFFSHORE OCEANOGRAPHY GROUP
 REFERENCE NO. 83-10- 48 DATE 8/ 5/83
 POSITION 54-17.7N, 132-33.5W 5.2 STATION Q40
 RESULTS OF STP CAST 243 POINTS TAKEN FROM DIGITAL SYSTEM
 GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA	SVA	DELTA	POT.	SOUND
				T		D	EN	
0	8.76	31.17	0	24.19	374.3	.00	.00	1481.
10	8.76	31.25	10	24.25	368.7	.37	.02	1481.
20	8.62	31.35	20	24.35	359.3	.74	.07	1481.
30	8.42	31.51	30	24.50	344.9	1.09	.16	1480.
50	7.92	31.80	50	24.80	316.2	1.74	.43	1479.
75	7.85	32.00	75	24.97	301.0	2.51	.92	1480.
100	7.65	32.22	99	25.17	282.2	3.25	1.57	1480.
125	7.31	32.45	124	25.40	260.7	3.93	2.35	1479.
150	7.16	32.74	149	25.64	237.4	4.55	3.23	1479.
175	7.02	33.04	174	25.90	213.4	5.12	4.16	1479.
200	6.73	33.28	199	26.13	192.2	5.62	5.12	1479.
225	6.31	33.67	223	26.48	158.5	6.05	6.04	1478.

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REFERENCE NO. 83-10- 49 DATE 8/ 5/83

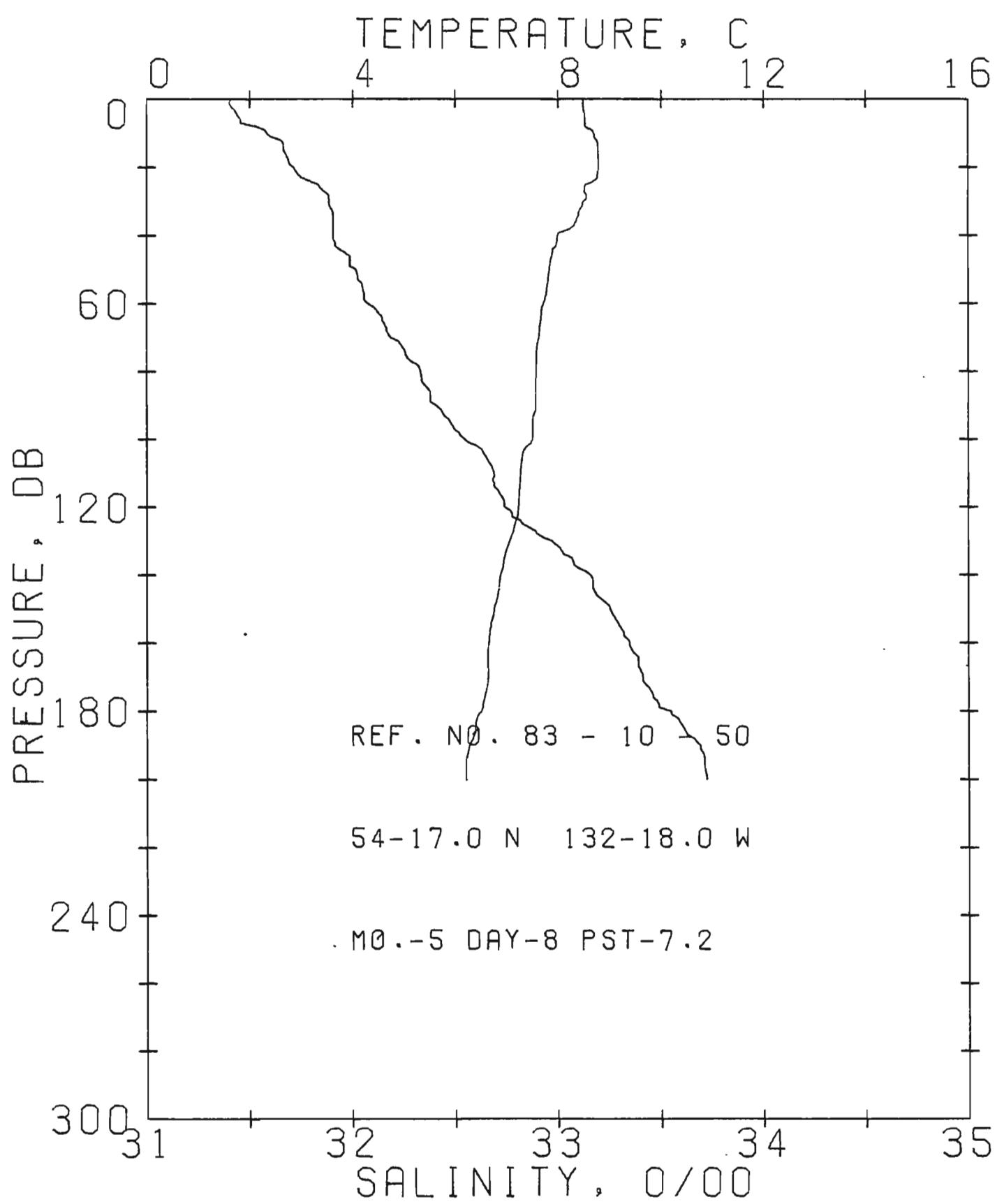
POSITION 54-10.0N, 132-18.0W 6.3 STATION Q41

RESULTS OF STP CAST 145 POINTS TAKEN FROM DIGITAL SYSTEM

GUILDLINE WAS USED,PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	8.72	31.39	0	24.36	357.4	.00	.00	1481.
10	8.72	31.39	10	24.36	357.5	.36	.02	1481.
20	8.70	31.39	20	24.37	357.1	.71	.07	1481.
30	8.72	31.38	30	24.35	358.6	1.07	.16	1481.
50	8.75	31.53	50	24.47	348.2	1.79	.45	1482.
75	8.59	31.72	75	24.64	332.1	2.63	.99	1482.
100	8.10	31.85	99	24.81	315.9	3.44	1.71	1481.
125	7.90	31.99	124	24.95	302.9	4.21	2.60	1481.
150	7.74	32.08	149	25.04	294.5	4.96	3.65	1481.
175	7.68	32.14	174	25.10	289.2	5.69	4.85	1481.
200	7.63	32.27	199	25.21	279.6	6.40	6.21	1481.
225	7.45	32.56	224	25.46	255.9	7.08	7.67	1481.

90



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REFERENCE NO. 83-10- 50 DATE 8/ 5/83

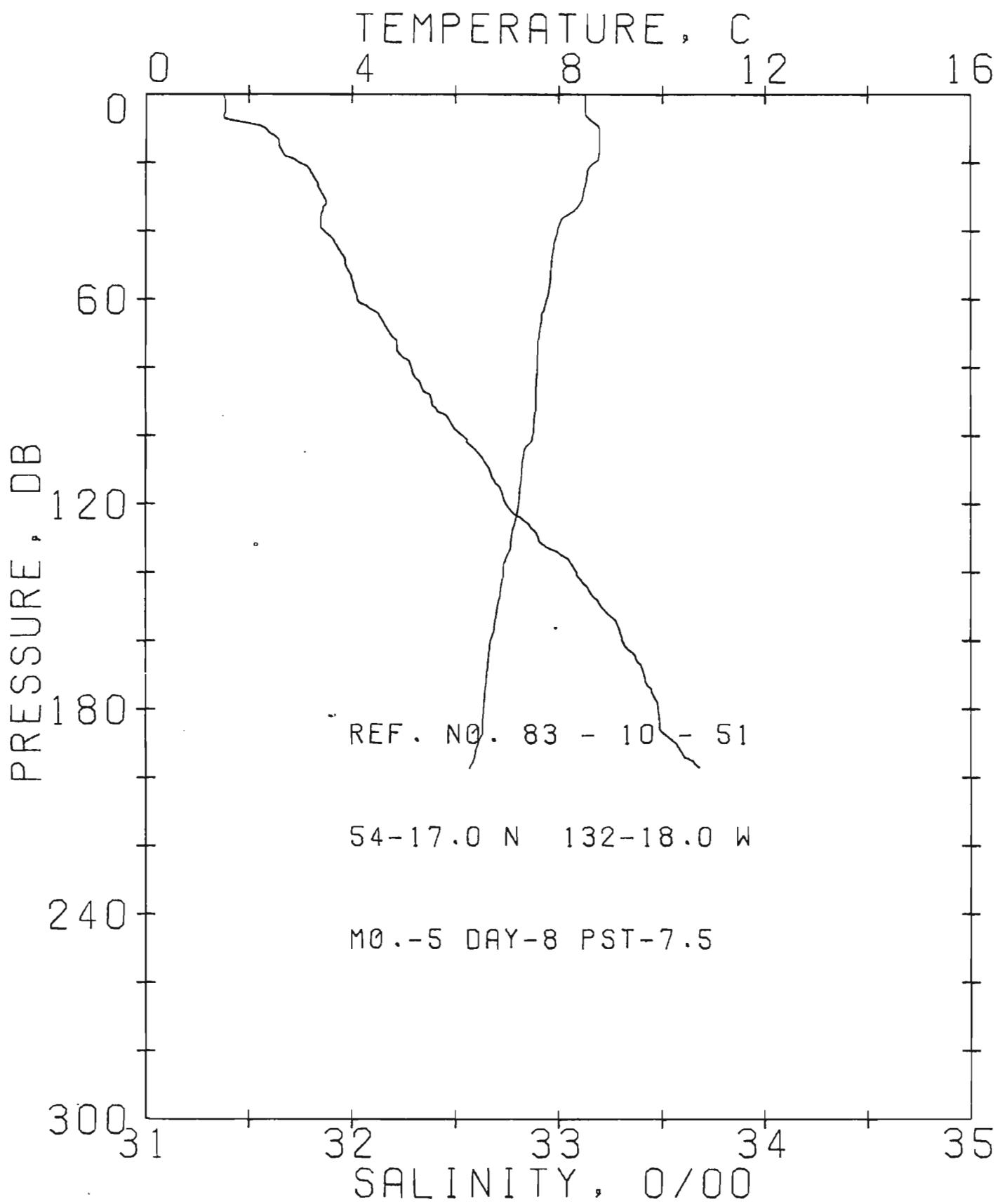
POSITION 54-17.0N, 132-18.0W 7.2 STATION Q42

RESULTS OF STP CAST 166 POINTS TAKEN FROM DIGITAL SYSTEM

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	8.50	31.41	0	24.41	352.8	.00	.00	1480.
10	8.70	31.59	10	24.52	342.4	.35	.02	1481.
20	8.80	31.72	20	24.61	334.3	.69	.07	1482.
30	8.50	31.89	30	24.79	317.5	1.01	.15	1481.
50	7.84	32.02	50	24.98	299.0	1.63	.40	1479.
75	7.58	32.26	75	25.21	277.9	2.35	.86	1479.
100	7.51	32.55	99	25.44	255.8	3.02	1.46	1479.
125	7.17	32.83	124	25.71	230.6	3.63	2.15	1479.
150	6.76	33.26	149	26.10	194.0	4.15	2.88	1478.
175	6.59	33.46	174	26.29	176.8	4.61	3.65	1478.
200	6.20	33.72	199	26.54	152.9	5.02	4.42	1477.

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REFERENCE NO. 83-10- 51 DATE 8/ 5/83

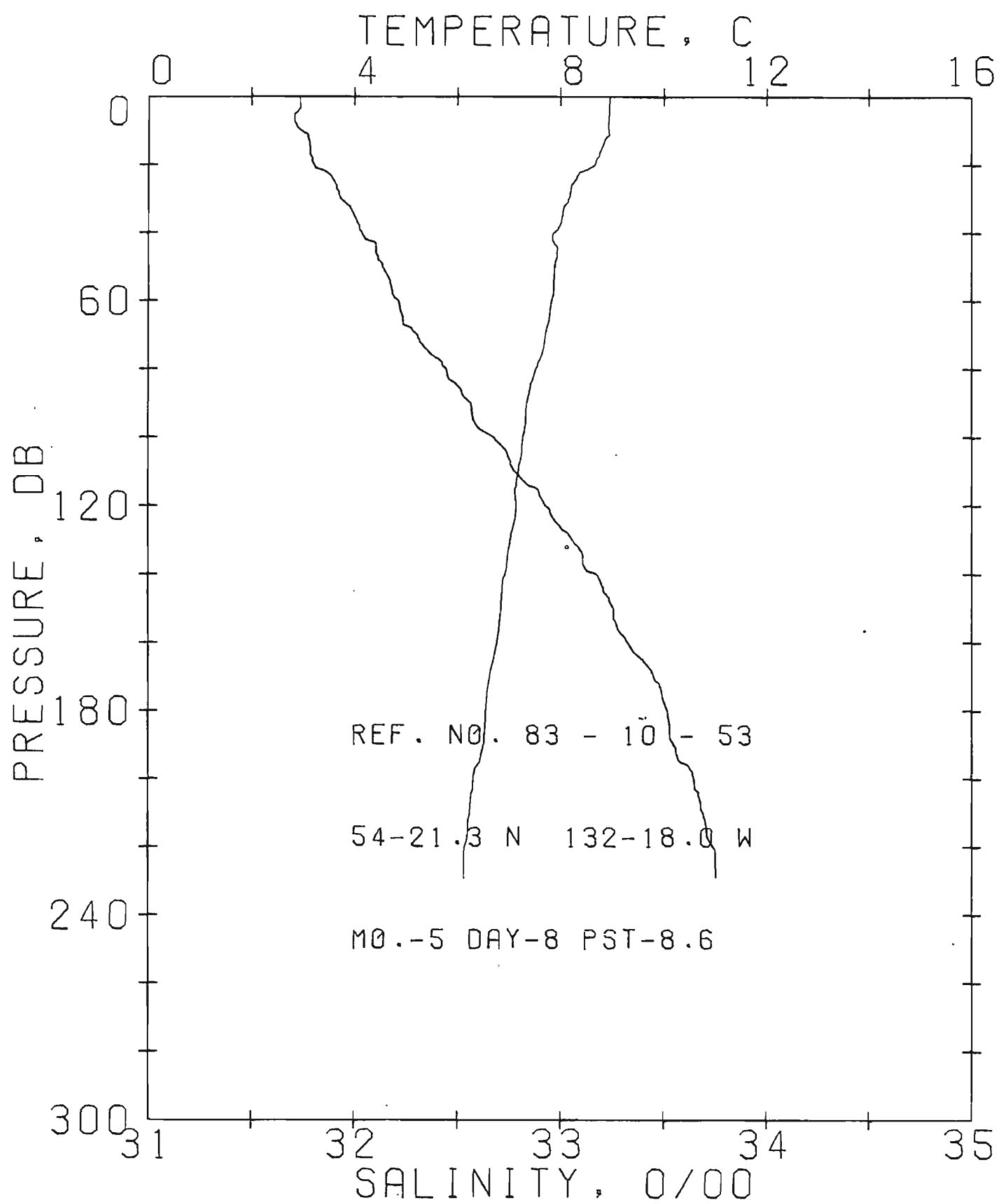
POSITION 54-17.0N, 132-18.0W 7.5 STATION Q42

RESULTS OF STP CAST 154 POINTS TAKEN FROM DIGITAL SYSTEM

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	8.52	31.38	0	24.38	355.3	.00	.00	1480.
10	8.79	31.59	10	24.51	343.7	.35	.02	1482.
20	8.68	31.75	20	24.65	330.4	.69	.07	1482.
30	8.47	31.87	30	24.77	318.6	1.01	.15	1481.
50	7.87	31.97	50	24.94	303.1	1.64	.40	1479.
75	7.60	32.22	75	25.17	281.2	2.37	.87	1479.
100	7.50	32.54	99	25.44	256.4	3.04	1.47	1479.
125	7.17	32.84	124	25.72	229.9	3.65	2.16	1479.
150	6.83	33.21	149	26.06	198.2	4.18	2.91	1478.
175	6.58	33.45	174	26.28	177.5	4.65	3.68	1478.
200	6.16	33.74	199	26.56	150.9	5.06	4.46	1477.

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REFERENCE NO. 83-10- 53 DATE 8/ 5/83

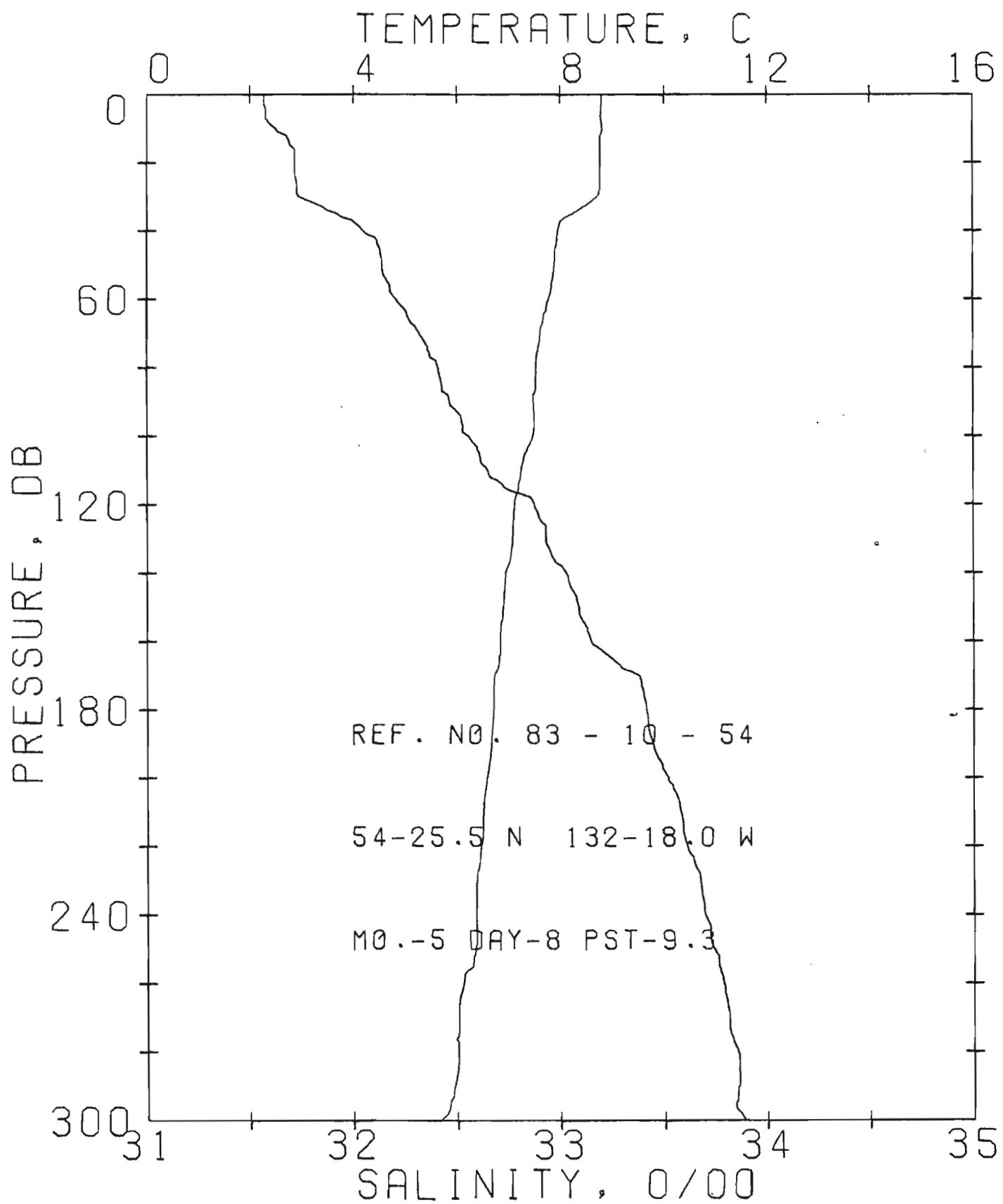
POSITION 54-21.3N, 132-18.0W 8.6 STATION Q43

RESULTS OF STP CAST 161 POINTS TAKEN FROM DIGITAL SYSTEM

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	8.96	31.74	0	24.60	334.8	.00	.00	1482.
10	8.94	31.75	10	24.61	334.0	.34	.02	1482.
20	8.68	31.81	20	24.70	325.9	.67	.07	1482.
30	8.17	31.94	30	24.87	309.2	.98	.15	1480.
50	7.90	32.14	50	25.07	290.9	1.58	.39	1480.
75	7.66	32.36	75	25.28	271.1	2.28	.84	1479.
100	7.27	32.68	99	25.58	242.9	2.92	1.41	1479.
125	7.11	32.99	124	25.84	218.3	3.50	2.07	1479.
150	6.86	33.26	149	26.09	194.9	4.01	2.79	1479.
175	6.58	33.49	174	26.31	174.3	4.48	3.55	1478.
200	6.32	33.65	199	26.47	159.8	4.90	4.36	1478.
225	6.12	33.75	223	26.57	149.9	5.29	5.20	1478.

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REFERENCE NO. 83-10- 54 DATE 8/ 5/83

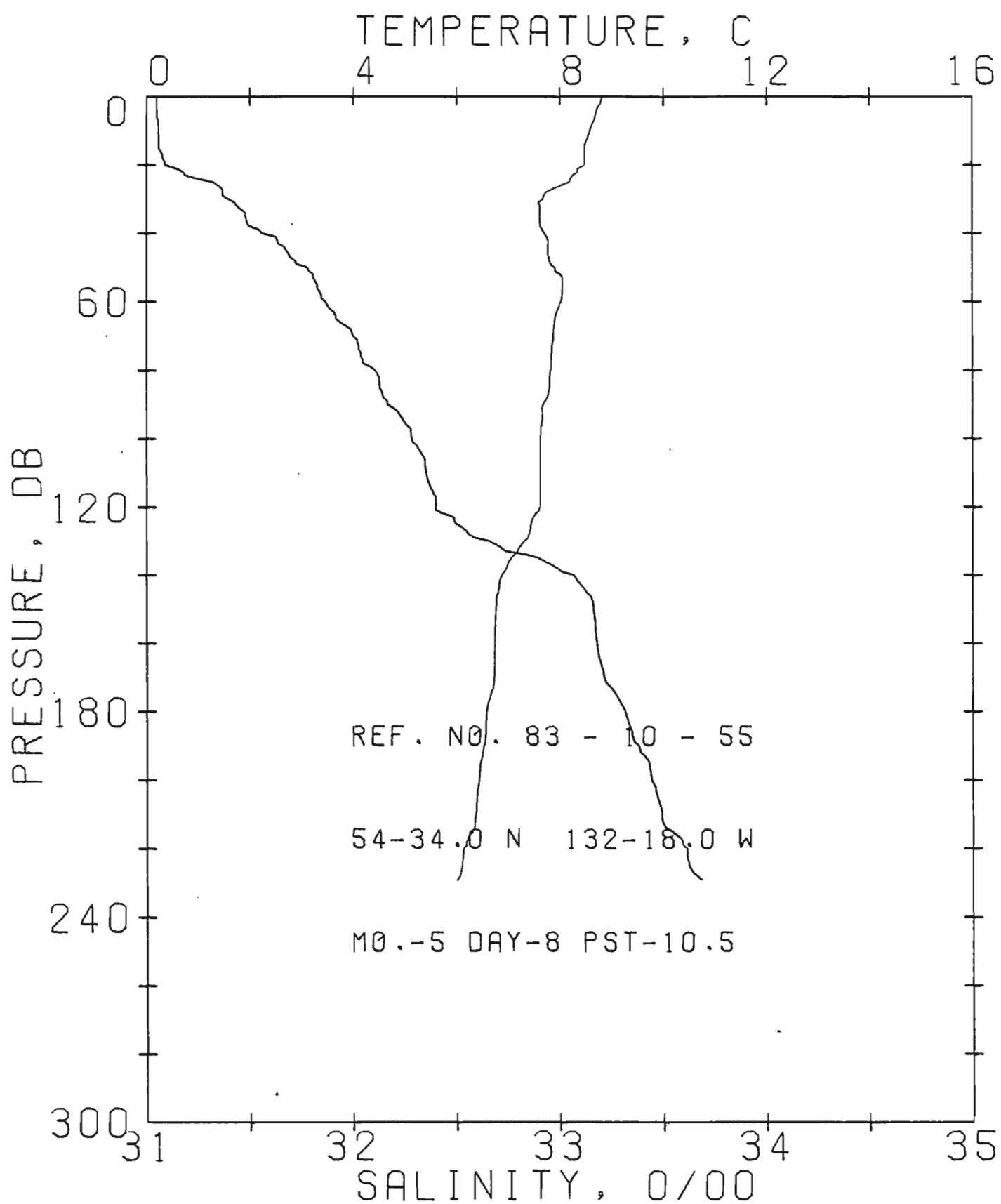
POSITION 54-25.5N, 132-18.0W 9.3 STATION Q44

RESULTS OF STP CAST 215 POINTS TAKEN FROM DIGITAL SYSTEM

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	8.81	31.57	0	24.49	345.3	.00	.00	1482.
10	8.83	31.63	10	24.53	341.3	.34	.02	1482.
20	8.78	31.72	20	24.61	334.0	.68	.07	1482.
30	8.72	31.74	30	24.64	331.8	1.01	.15	1482.
50	7.89	32.14	50	25.07	290.7	1.62	.40	1480.
75	7.57	32.36	75	25.29	270.4	2.32	.85	1479.
100	7.47	32.56	99	25.46	254.5	2.98	1.43	1479.
125	7.10	32.91	124	25.78	223.7	3.58	2.11	1479.
150	6.90	33.09	149	25.95	208.1	4.12	2.87	1479.
175	6.71	33.40	174	26.22	182.9	4.61	3.68	1479.
200	6.58	33.52	199	26.33	172.6	5.06	4.54	1479.
225	6.43	33.65	223	26.45	161.7	5.47	5.44	1479.
250	6.35	33.74	248	26.54	153.9	5.87	6.40	1479.
300	5.65	33.89	298	26.74	134.6	6.59	8.41	1477.

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REFERENCE NO. 83-10- 55

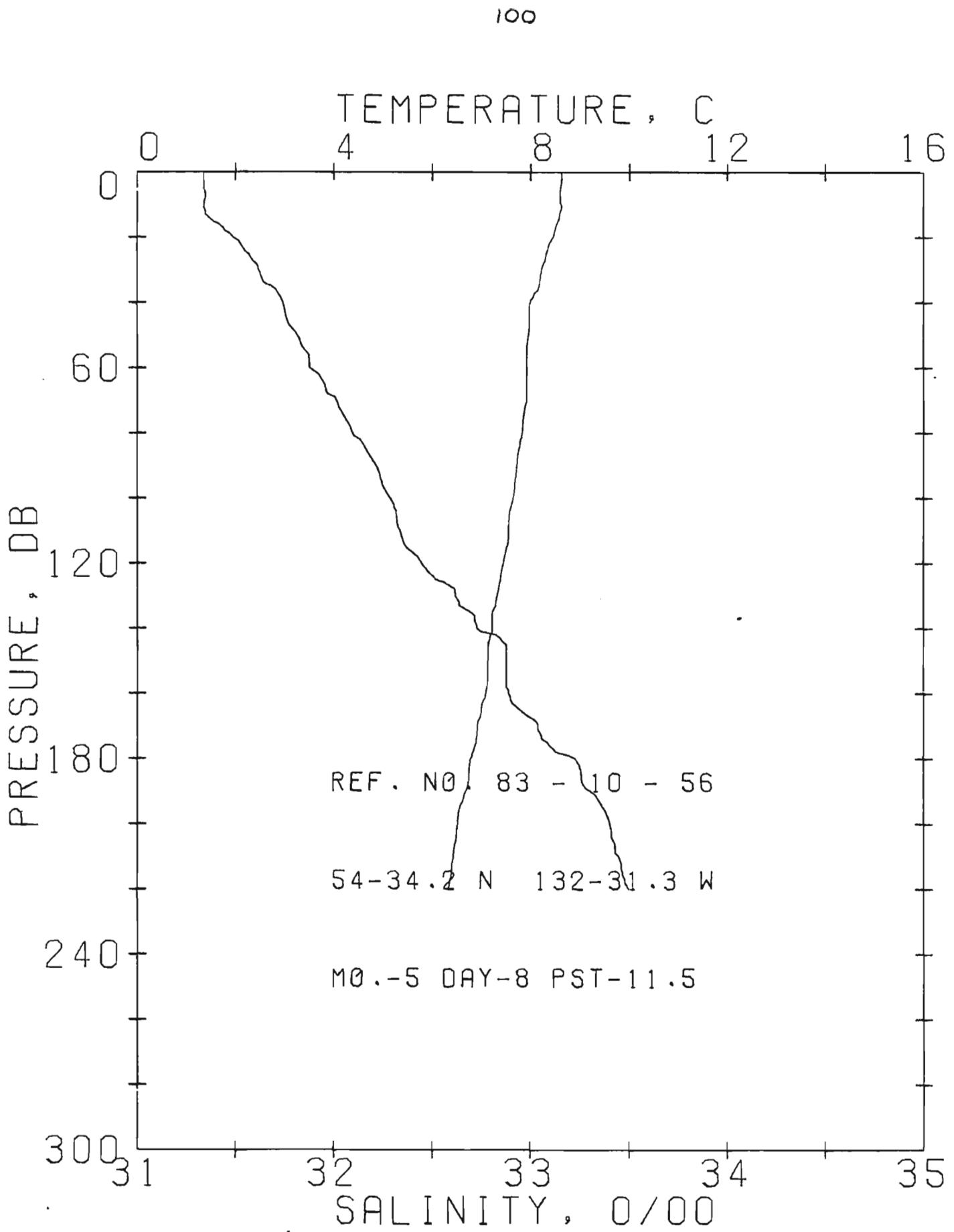
DATE 8/ 5/83

POSITION 54-34.0N, 132-18.0W 10.5 STATION Q45

RESULTS OF STP CAST 163 POINTS TAKEN FROM DIGITAL SYSTEM

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	8.82	31.05	0	24.08	384.1	.00	.00	1481.
10	8.59	31.06	10	24.12	380.2	.38	.02	1480.
20	8.48	31.09	20	24.16	376.6	.76	.08	1480.
30	7.68	31.40	30	24.52	342.7	1.12	.17	1477.
50	7.89	31.78	50	24.79	317.5	1.78	.44	1479.
75	7.84	32.04	75	25.00	297.8	2.55	.93	1480.
100	7.63	32.28	99	25.22	277.1	3.27	1.57	1480.
125	7.43	32.50	124	25.42	258.8	3.94	2.34	1480.
150	6.76	33.16	149	26.03	200.8	4.50	3.12	1478.
175	6.66	33.27	174	26.13	191.9	5.00	3.94	1478.
200	6.44	33.44	199	26.29	176.7	5.46	4.81	1478.
225	6.10	33.62	223	26.47	159.4	5.88	5.72	1477.



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REFERENCE NO. 83-10- 56 DATE 8/ 5/83

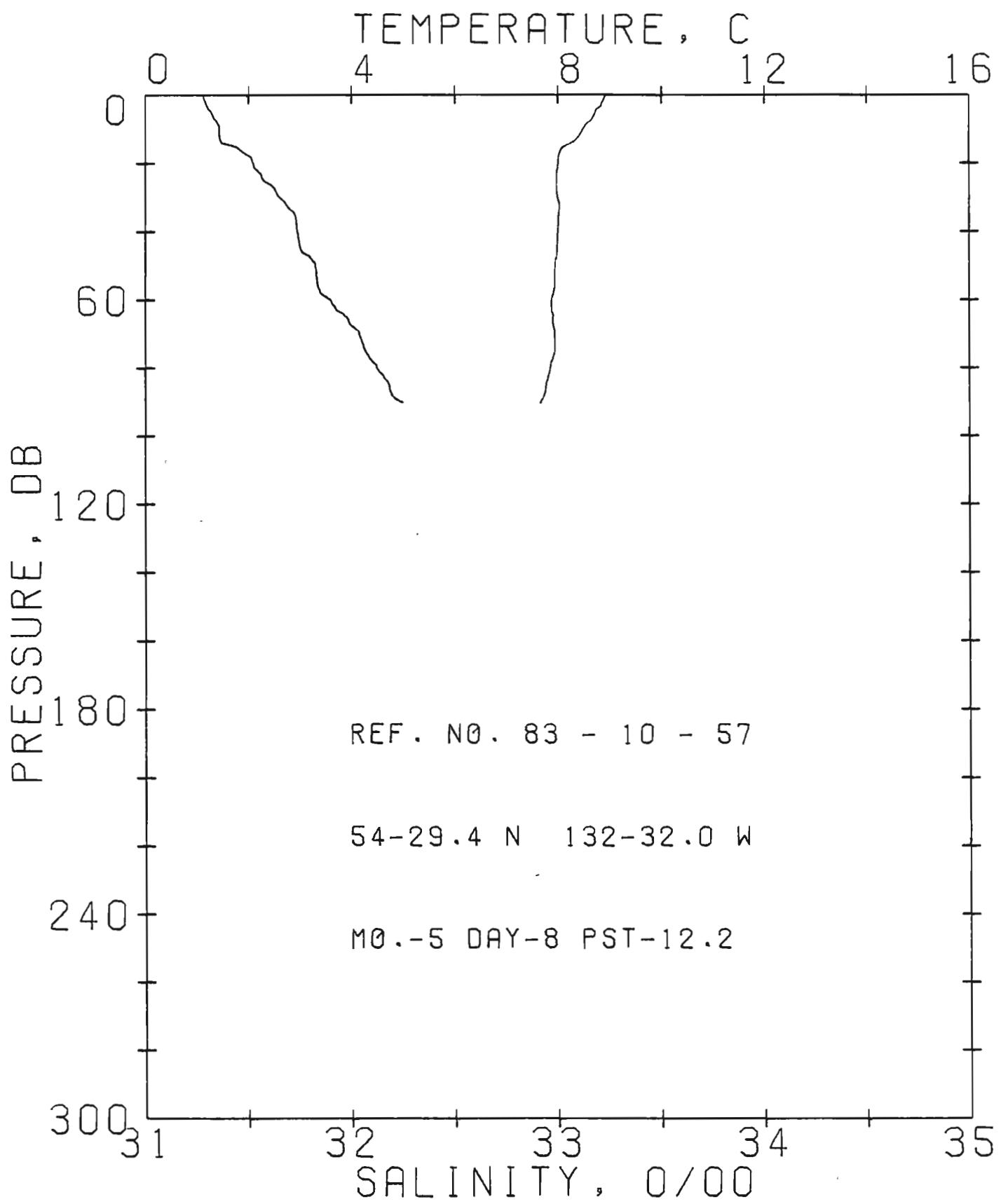
POSITION 54-34.2N, 132-31.3W 11.5 STATION Q46

RESULTS OF STP CAST 163 POINTS TAKEN FROM DIGITAL SYSTEM

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	8.64	31.34	0	24.34	360.0	.00	.00	1481.
10	8.64	31.34	10	24.34	360.1	.36	.02	1481.
20	8.46	31.49	20	24.48	346.5	.71	.07	1480.
30	8.23	31.62	30	24.61	333.8	1.05	.16	1480.
50	7.96	31.82	50	24.81	315.5	1.70	.42	1479.
75	7.86	32.06	75	25.01	296.6	2.47	.91	1480.
100	7.65	32.29	99	25.22	277.0	3.18	1.55	1480.
125	7.40	32.52	124	25.44	256.9	3.85	2.32	1479.
150	7.15	32.88	149	25.75	227.0	4.45	3.15	1479.
175	6.91	33.09	174	25.95	208.5	5.00	4.06	1479.
200	6.52	33.40	199	26.25	180.5	5.48	4.98	1478.

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OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 83-10- 57 DATE 8/ 5/83

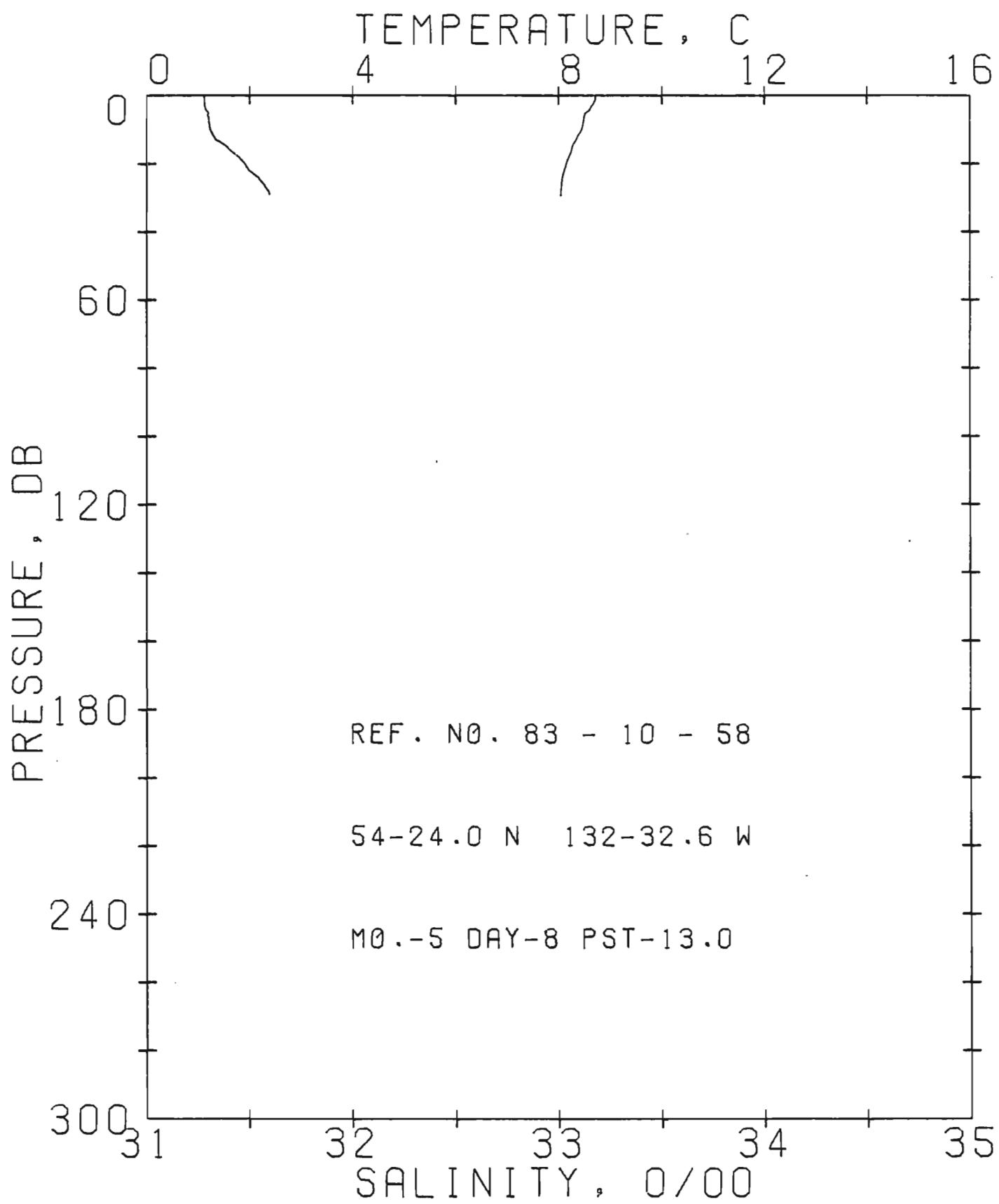
POSITION 54-29.4N, 132-32.0W 12.2 STATION Q47

RESULTS OF STP CAST 91 POINTS TAKEN FROM DIGITAL SYSTEM

GUILDLINE WAS USED,PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	8.93	31.28	0	24.25	368.3	.00	.00	1482.
10	8.49	31.36	10	24.37	356.4	.36	.02	1480.
20	8.01	31.53	20	24.57	337.5	.71	.07	1479.
30	7.99	31.66	30	24.68	327.8	1.04	.16	1479.
50	7.95	31.83	50	24.82	314.7	1.68	.42	1479.
75	7.94	32.07	75	25.01	296.7	2.45	.90	1480.

104



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 83-10- 58 DATE 8/ 5/83

POSITION 54-24.0N, 132-32.6W 13.0 STATION Q48

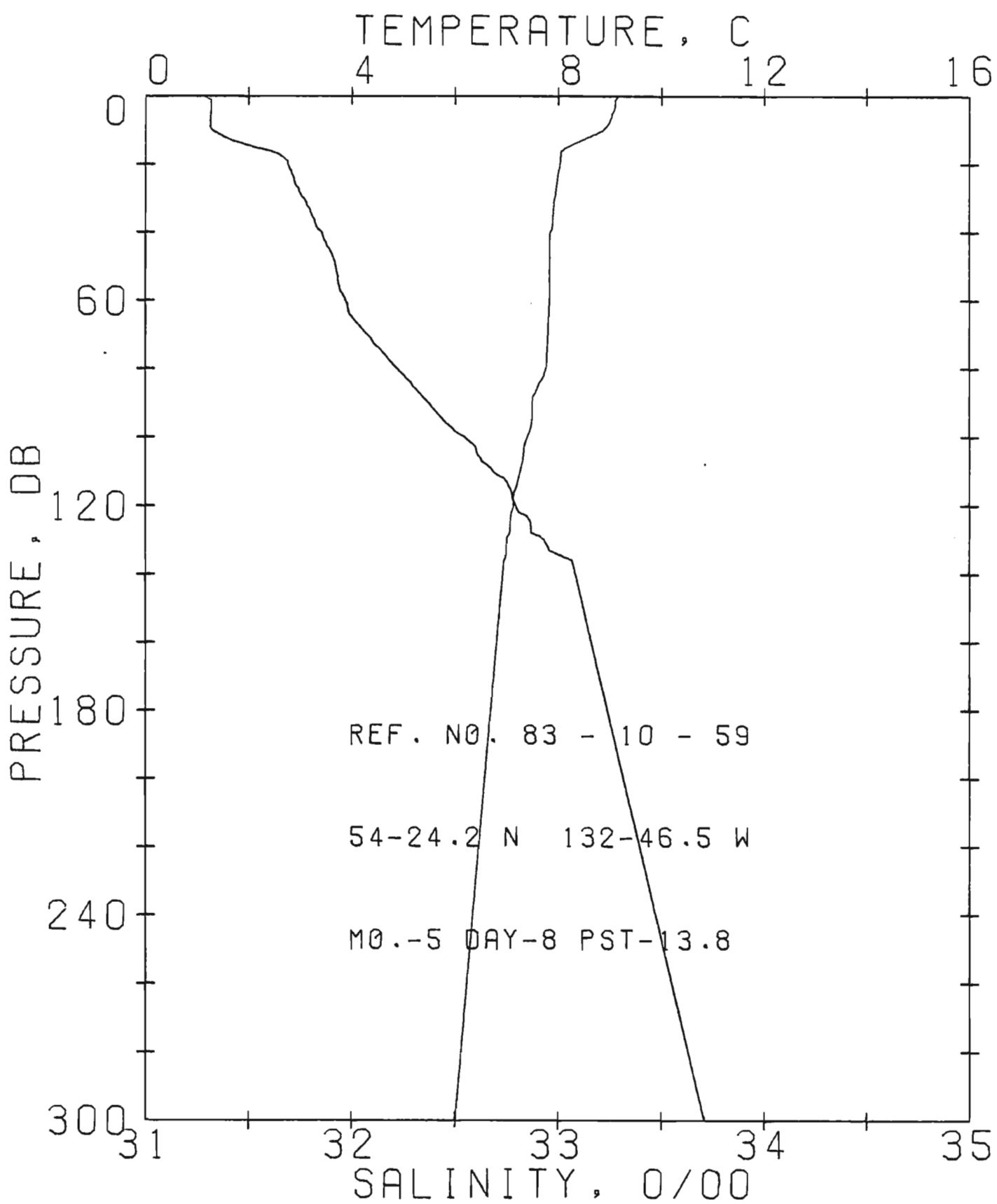
RESULTS OF STP CAST 30 POINTS TAKEN FROM DIGITAL SYSTEM

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	8.73	31.28	0	24.28	365.6	.00	.00	1481.
10	8.45	31.31	10	24.34	359.5	.36	.02	1480.
20	8.15	31.48	20	24.52	343.0	.71	.07	1479.
30	8.05	31.61	30	24.63	332.3	1.05	.16	1479.

PRES	DEPTH	TEMP	SAL	PRES	DEPTH	TEMP	SAL
0.		8.73	31.28	15.		8.27	31.39
1.		8.73	31.28	16.		8.25	31.41
2.		8.69	31.28	17.		8.23	31.43
3.		8.65	31.28	18.		8.21	31.45
4.		8.61	31.29	19.		8.18	31.47
5.		8.52	31.30	20.		8.15	31.48
6.		8.50	31.30	21.		8.14	31.49
7.		8.49	31.30	22.		8.12	31.50
8.		8.48	31.30	23.		8.09	31.52
9.		8.47	31.31	24.		8.08	31.55
10.		8.45	31.31	25.		8.07	31.56
11.		8.40	31.32	26.		8.06	31.57
12.		8.37	31.33	27.		8.06	31.58
13.		8.34	31.34	28.		8.05	31.59
14.		8.30	31.37	29.		8.05	31.60

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REFERENCE NO. 83-10- 59 DATE 8/ 5/83

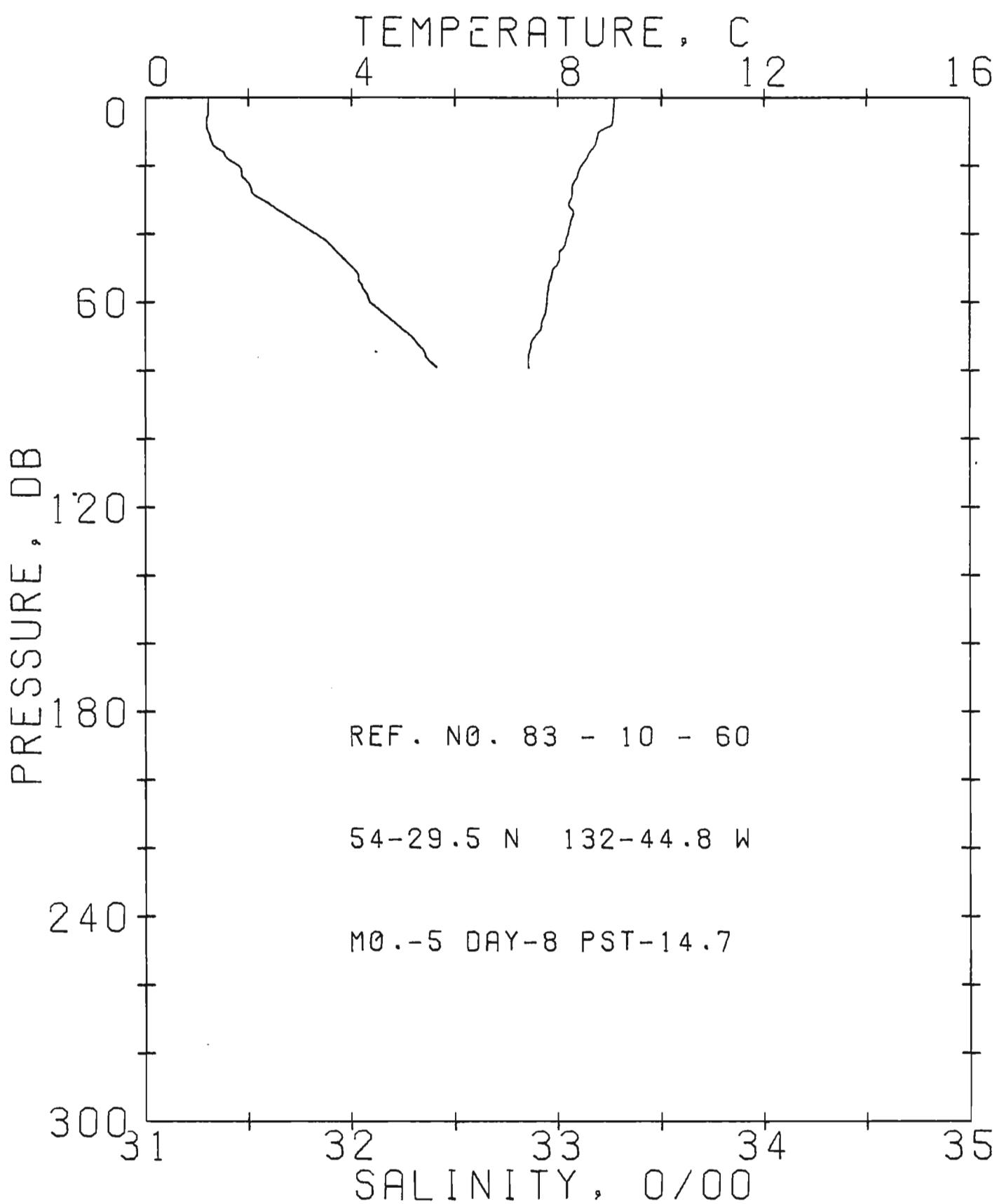
POSITION 54-24.2N, 132-46.5W 13.8 STATION Q49

RESULTS OF STP CAST 150 POINTS TAKEN FROM DIGITAL SYSTEM

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA	SVA	DELTA	POT.	SOUND
				T		D	EN	
0	9.17	31.29	0	24.22	371.3	.00	.00	1483.
10	8.88	31.33	10	24.29	364.5	.37	.02	1482.
20	8.04	31.69	20	24.70	325.6	.71	.07	1479.
30	7.93	31.77	30	24.77	318.5	1.03	.15	1479.
50	7.83	31.93	50	24.91	305.8	1.65	.41	1479.
75	7.79	32.15	75	25.10	288.7	2.40	.88	1480.
100	7.41	32.55	99	25.46	254.3	3.09	1.49	1479.
125	7.08	32.87	124	25.76	226.6	3.68	2.17	1479.
150	6.87	33.13	149	25.98	205.2	4.22	2.92	1479.
175	6.73	33.22	174	26.08	196.4	4.72	3.75	1478.
200	6.59	33.32	199	26.17	187.6	5.20	4.67	1478.
225	6.44	33.42	223	26.27	178.9	5.66	5.66	1478.
250	6.30	33.51	248	26.36	170.2	6.09	6.71	1478.
300	6.01	33.71	298	26.55	152.7	6.90	8.96	1478.

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REFERENCE NO. 83-10- 60 DATE 8/ 5/83

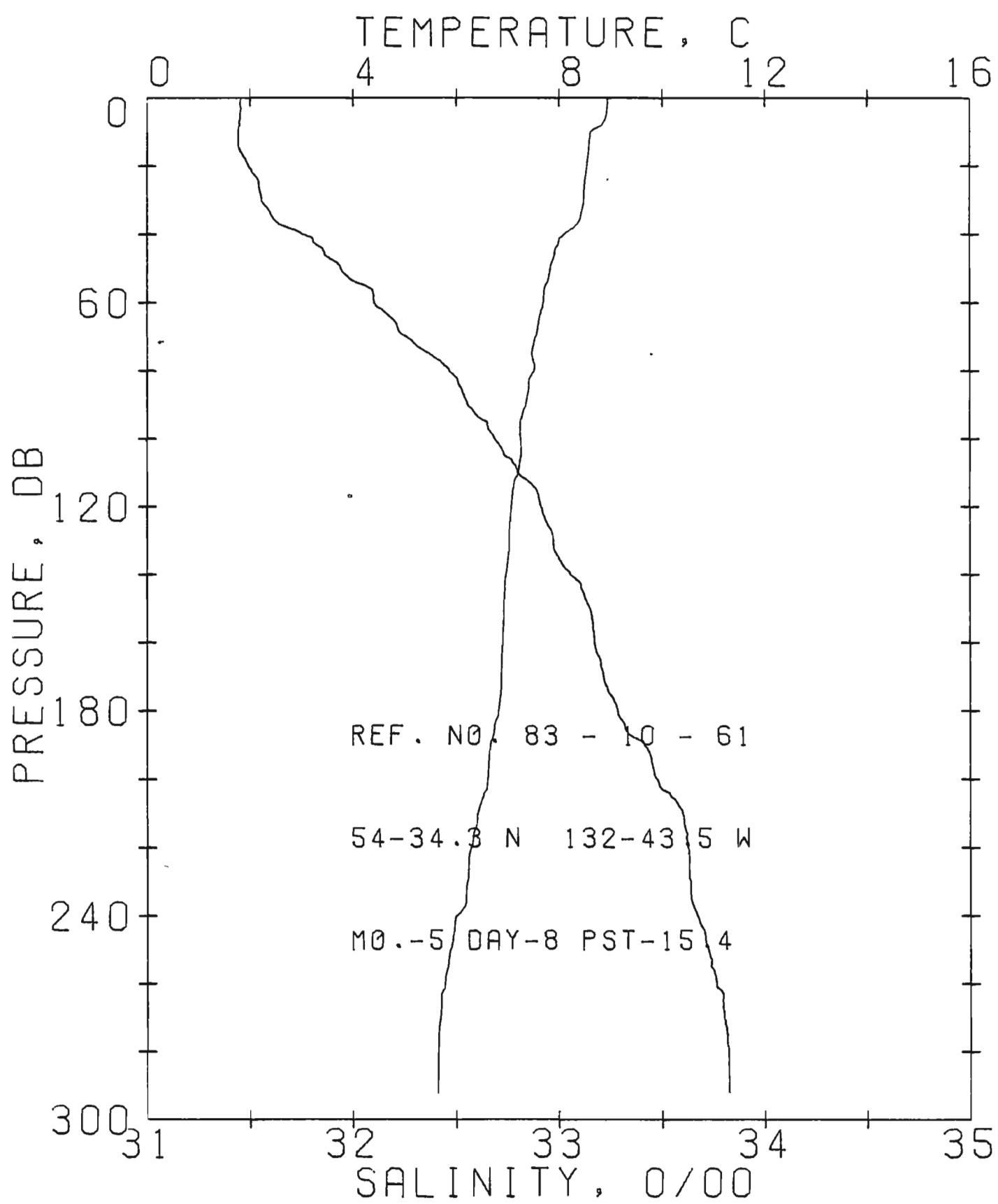
POSITION 54-29.5N, 132-44.8W 14.7 STATION Q50

RESULTS OF STP CAST 80 POINTS TAKEN FROM DIGITAL SYSTEM

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	9.09	31.31	0	24.24	369.0	.00	.00	1482.
10	8.80	31.31	10	24.29	364.7	.37	.02	1481.
20	8.45	31.46	20	24.45	348.9	.73	.07	1480.
30	8.24	31.57	30	24.58	337.4	1.07	.16	1480.
50	7.92	32.01	50	24.97	300.7	1.71	.42	1480.
75	7.44	32.36	75	25.31	268.6	2.42	.87	1479.

110



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REFERENCE NO. 83-10- 61 DATE 8/ 5/83

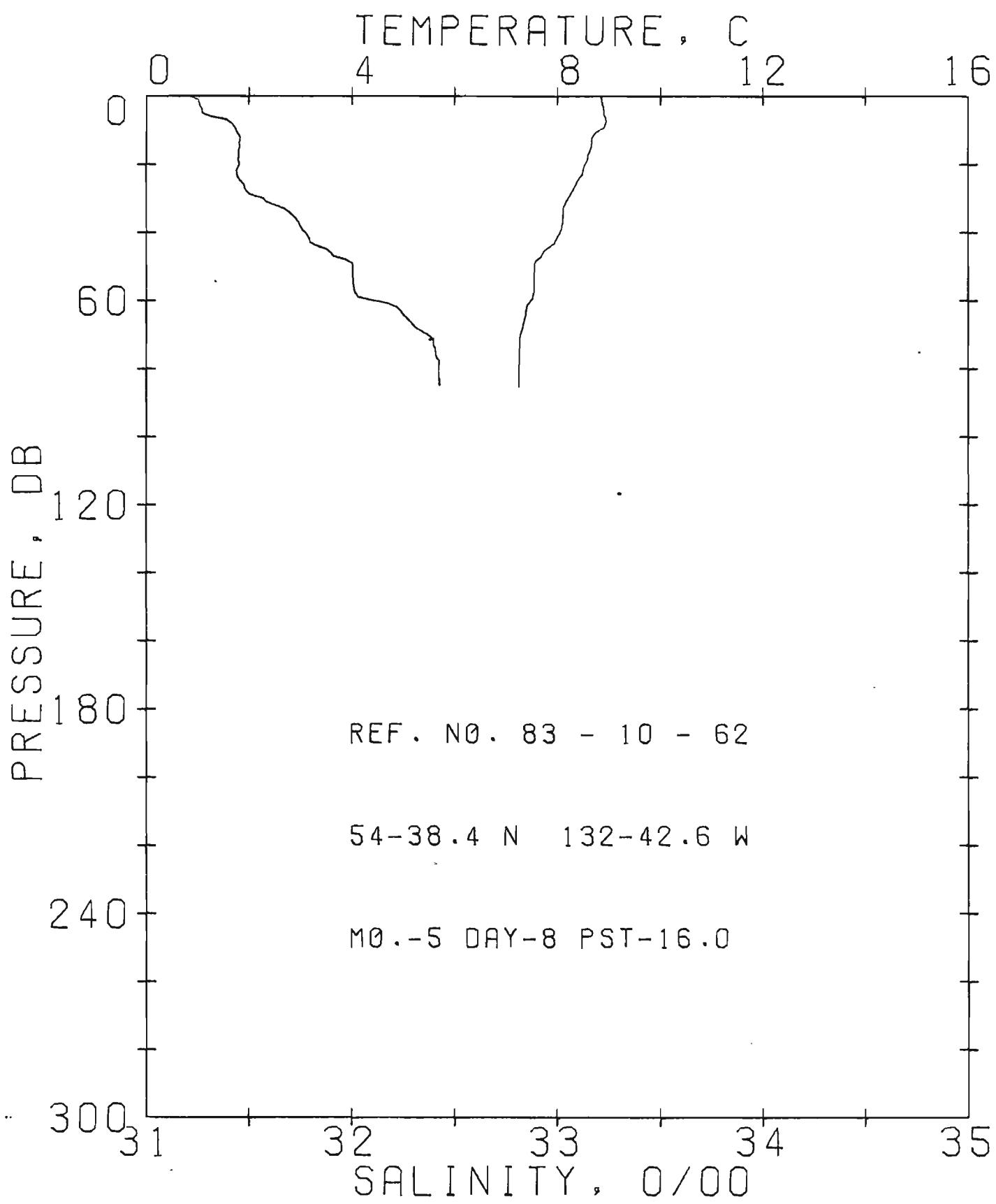
POSITION 54-34.3N, 132-43.5W 15.4 STATION Q51

RESULTS OF STP CAST 293 POINTS TAKEN FROM DIGITAL SYSTEM

GUILDLINE WAS USED,PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	8.94	31.45	0	24.38	355.6	.00	.00	1482.
10	8.61	31.44	10	24.42	352.2	.36	.02	1481.
20	8.55	31.50	20	24.47	347.3	.71	.07	1481.
30	8.49	31.56	30	24.53	342.0	1.05	.16	1481.
50	7.83	31.95	50	24.93	304.3	1.70	.42	1479.
75	7.47	32.38	75	25.32	267.6	2.41	.88	1479.
100	7.25	32.69	99	25.59	241.9	3.05	1.44	1479.
125	7.05	32.94	124	25.82	220.6	3.62	2.10	1479.
150	6.93	33.15	149	26.00	203.9	4.15	2.84	1479.
175	6.87	33.25	174	26.08	196.3	4.66	3.67	1479.
200	6.61	33.48	199	26.29	176.3	5.12	4.56	1479.
225	6.24	33.63	223	26.46	160.7	5.53	5.45	1478.
250	5.89	33.73	248	26.58	149.3	5.92	6.40	1477.

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REFERENCE NO. 83-10- 62 DATE 8/ 5/83

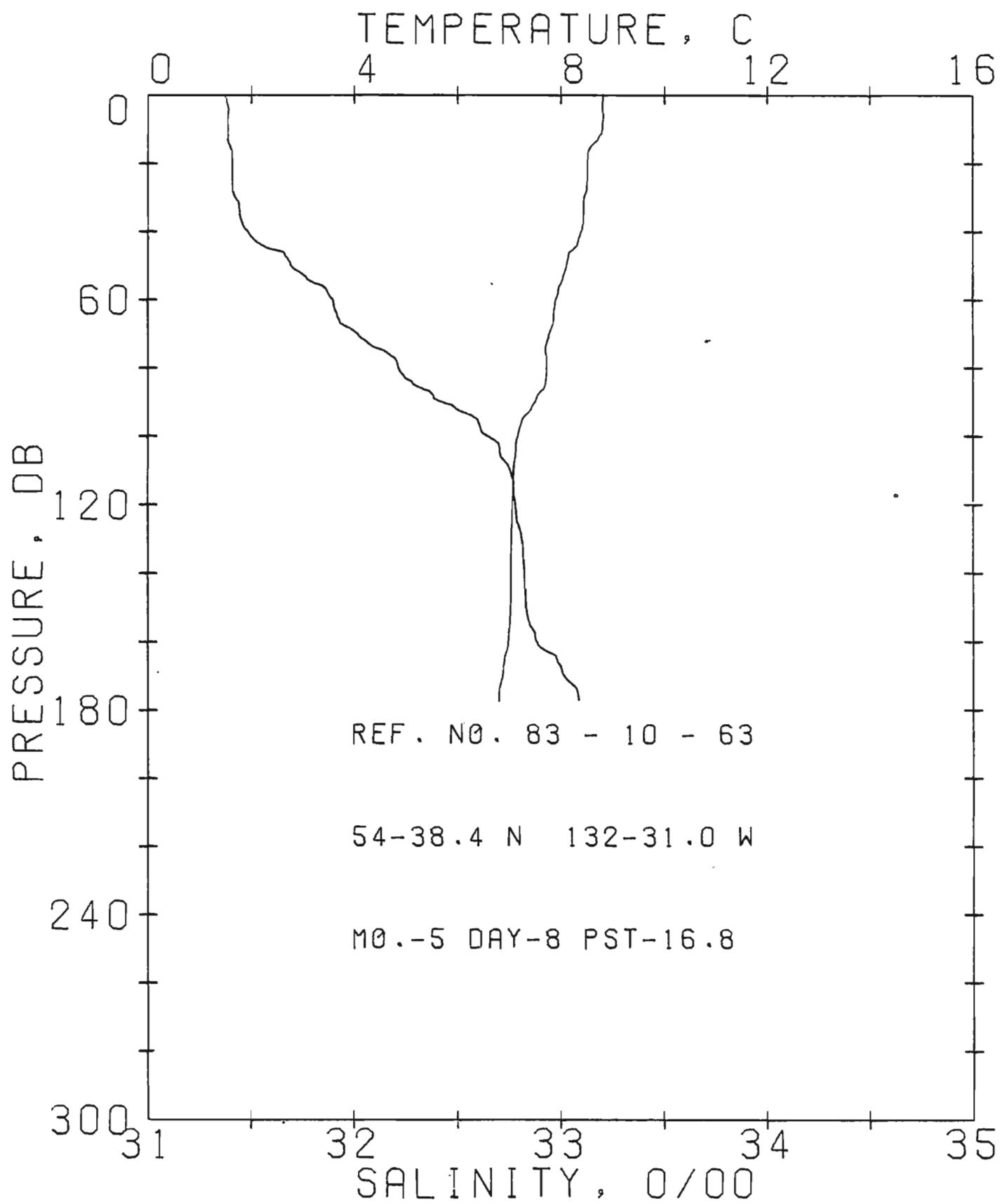
POSITION 54-38.4N, 132-42.6W 16.0 STATION Q52

RESULTS OF STP CAST 86 POINTS TAKEN FROM DIGITAL SYSTEM

GUILDLINE WAS USED,PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	8.84	31.22	0	24.21	371.8	.00	.00	1481.
10	8.80	31.44	10	24.39	354.9	.36	.02	1482.
20	8.53	31.46	20	24.44	350.1	.72	.07	1481.
30	8.21	31.57	30	24.58	336.8	1.06	.16	1480.
50	7.56	32.01	50	25.01	296.0	1.70	.42	1478.
75	7.27	32.41	75	25.37	262.6	2.40	.86	1478.

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REFERENCE NO. 83-10- 63 DATE 8/ 5/83

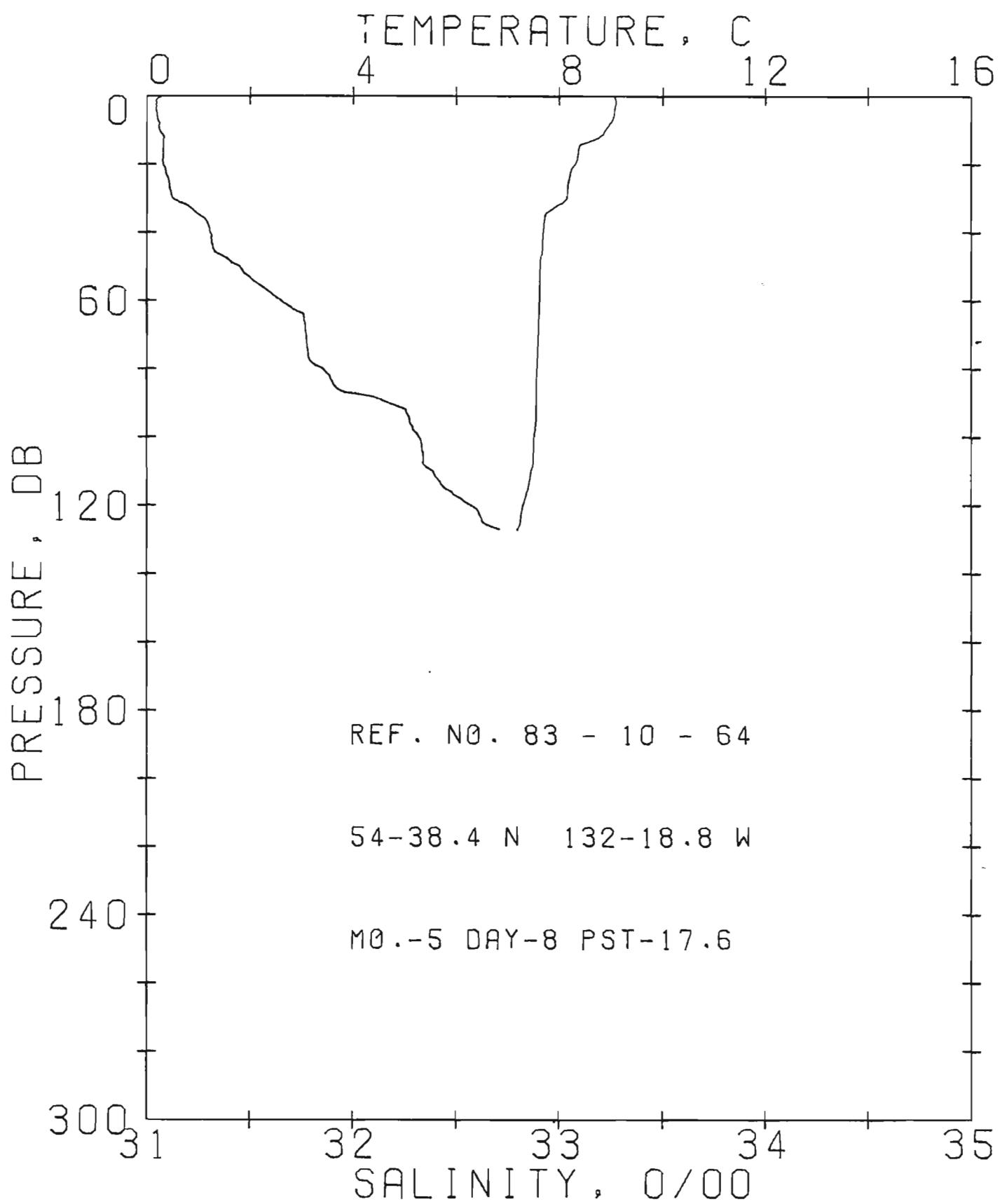
POSITION 54-38.4N, 132-31.0W 16.8 STATION Q53

RESULTS OF STP CAST 178 POINTS TAKEN FROM DIGITAL SYSTEM

GUIDELINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	8.81	31.37	0	24.34	359.8	.00	.00	1481.
10	8.81	31.39	10	24.35	358.8	.36	.02	1481.
20	8.52	31.41	20	24.41	353.4	.71	.07	1481.
30	8.45	31.42	30	24.43	351.4	1.07	.16	1480.
50	8.12	31.70	50	24.69	326.8	1.75	.44	1480.
75	7.70	32.15	75	25.11	287.6	2.52	.93	1479.
100	7.17	32.65	99	25.57	243.8	3.19	1.52	1478.
125	7.06	32.79	124	25.69	232.4	3.78	2.20	1478.
150	7.03	32.83	149	25.73	229.1	4.36	3.00	1479.
175	6.80	33.09	174	25.96	207.5	4.91	3.91	1479.

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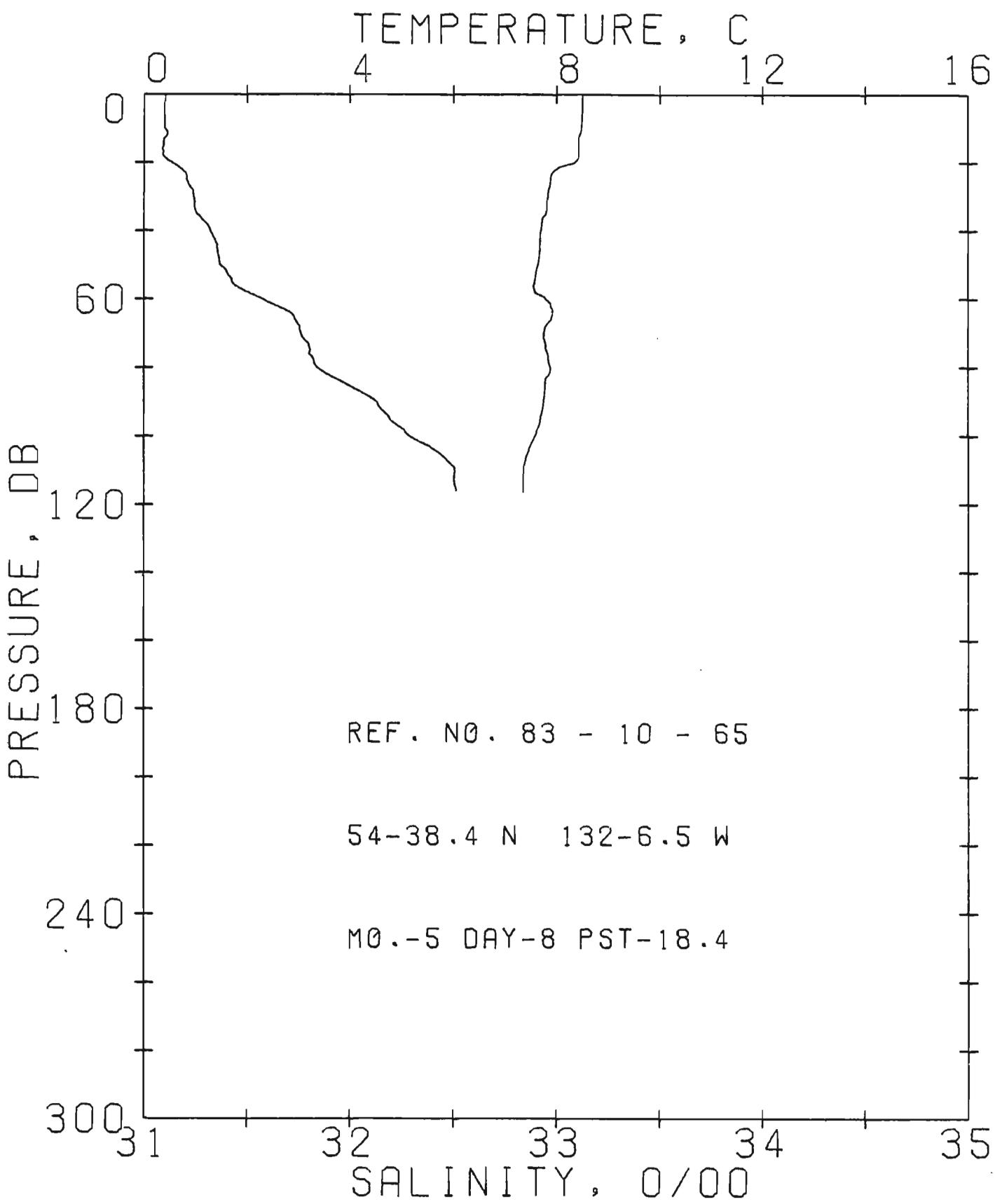
REFERENCE NO. 83-10- 64 DATE 8/ 5/83

POSITION 54-38.4N, 132-18.8W 17.6 STATION Q54

RESULTS OF STP CAST 128 POINTS TAKEN FROM DIGITAL SYSTEM

GUILDLINE WAS USED,PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	9.07	31.07	0	24.06	386.3	.00	.00	1482.
10	8.89	31.06	10	24.08	384.4	.39	.02	1481.
20	8.31	31.08	20	24.18	375.0	.77	.08	1479.
30	8.15	31.13	30	24.24	369.5	1.14	.17	1479.
50	7.64	31.45	50	24.57	338.4	1.84	.46	1478.
75	7.59	31.78	75	24.83	313.4	2.64	.97	1478.
100	7.52	32.32	99	25.27	272.6	3.38	1.62	1479.
125	7.26	32.63	124	25.54	246.6	4.03	2.37	1479.



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REFERENCE NO. 83-10- 65 DATE 8/ 5/83

POSITION 54-38.4N, 132- 6.5W 18.4 STATION Q55

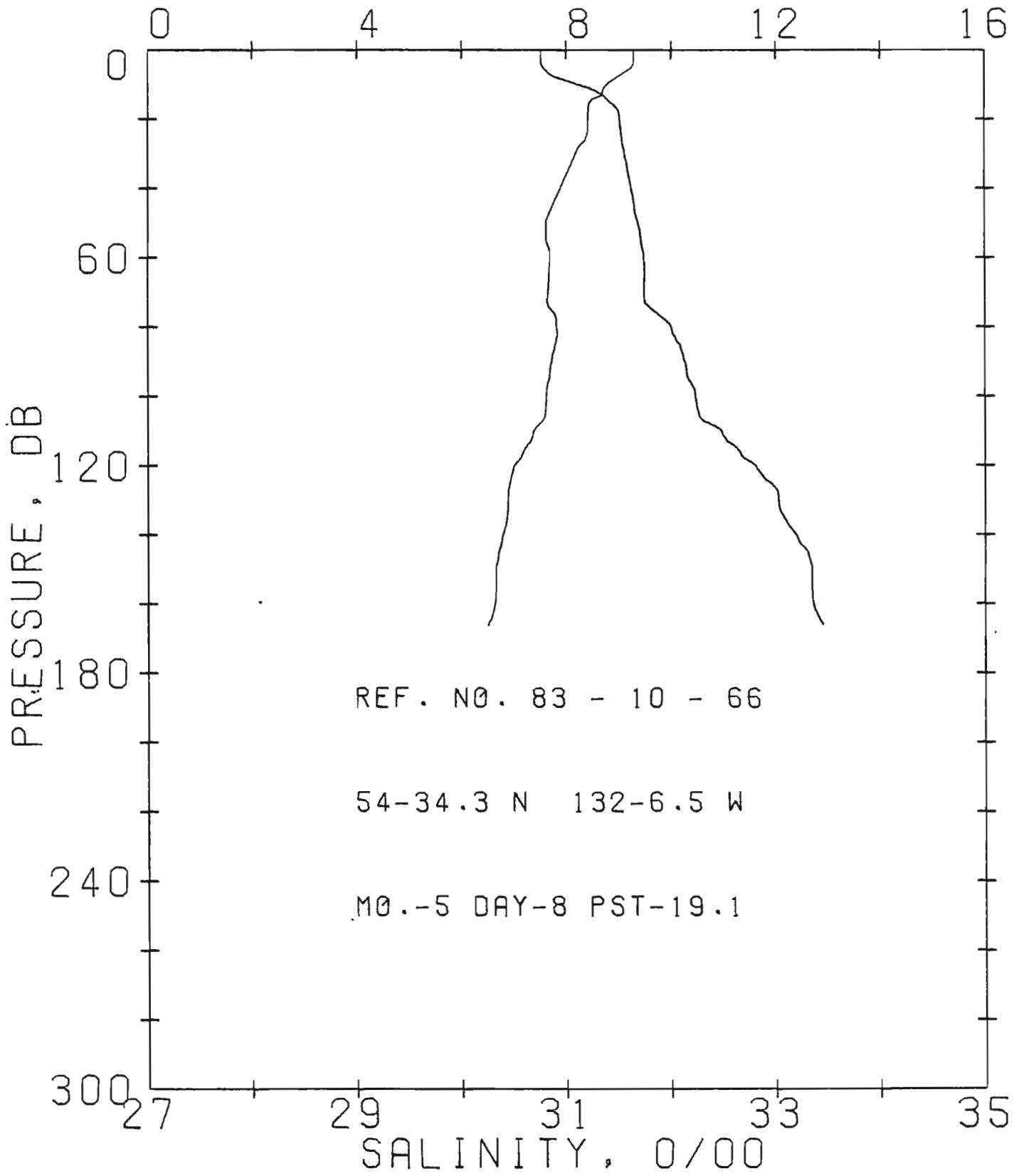
RESULTS OF STP CAST 117 POINTS TAKEN FROM DIGITAL SYSTEM

GUILDLINE WAS USED,PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	8.50	31.10	0	24.17	375.7	.00	.00	1480.
10	8.49	31.10	10	24.17	375.6	.38	.02	1480.
20	8.36	31.14	20	24.22	371.4	.75	.08	1480.
30	7.84	31.24	30	24.38	356.4	1.11	.17	1478.
50	7.65	31.37	50	24.50	344.8	1.81	.45	1478.
75	7.80	31.81	75	24.82	314.4	2.63	.97	1479.
100	7.58	32.29	99	25.23	276.0	3.37	1.63	1479.

120

TEMPERATURE, C



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REFERENCE NO. 83-10- 66 DATE 8/ 5/83

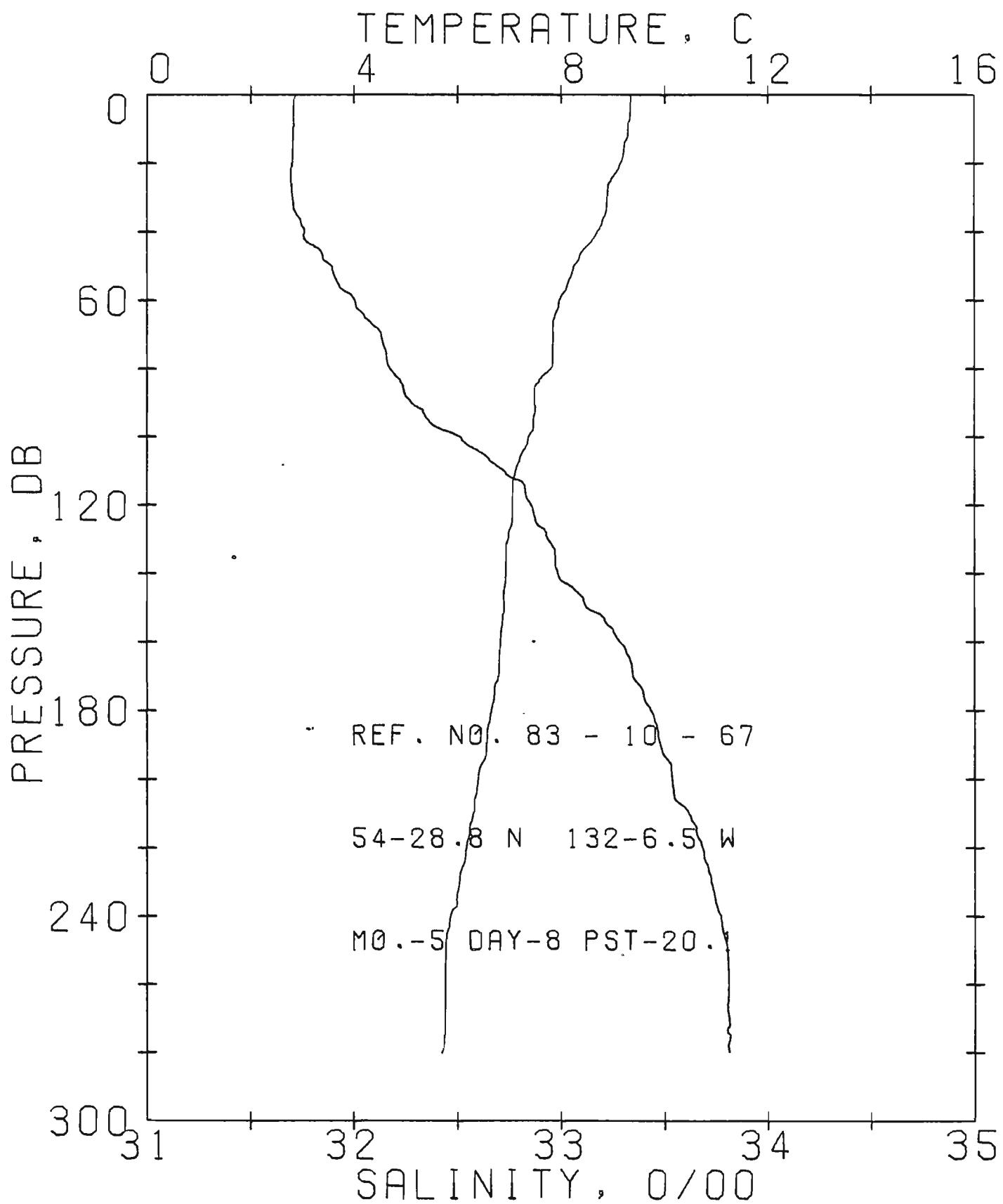
POSITION 54-34.3N, 132- 6.5W 19.1 STATION Q56

RESULTS OF STP CAST 167 POINTS TAKEN FROM DIGITAL SYSTEM

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	9.29	30.76	0	23.79	412.4	.00	.00	1482.
10	8.78	31.11	10	24.14	379.0	.40	.02	1481.
20	8.42	31.51	20	24.50	344.2	.76	.07	1480.
30	8.18	31.56	30	24.57	337.9	1.10	.16	1480.
50	7.61	31.69	50	24.76	320.5	1.76	.43	1478.
75	7.70	31.83	75	24.85	311.7	2.55	.93	1479.
100	7.62	32.23	99	25.18	280.8	3.29	1.59	1479.
125	6.92	32.96	124	25.85	217.9	3.92	2.31	1478.
150	6.66	33.35	149	26.19	185.7	4.42	3.01	1478.

122



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REFERENCE NO. 83-10- 67 DATE 8/ 5/83

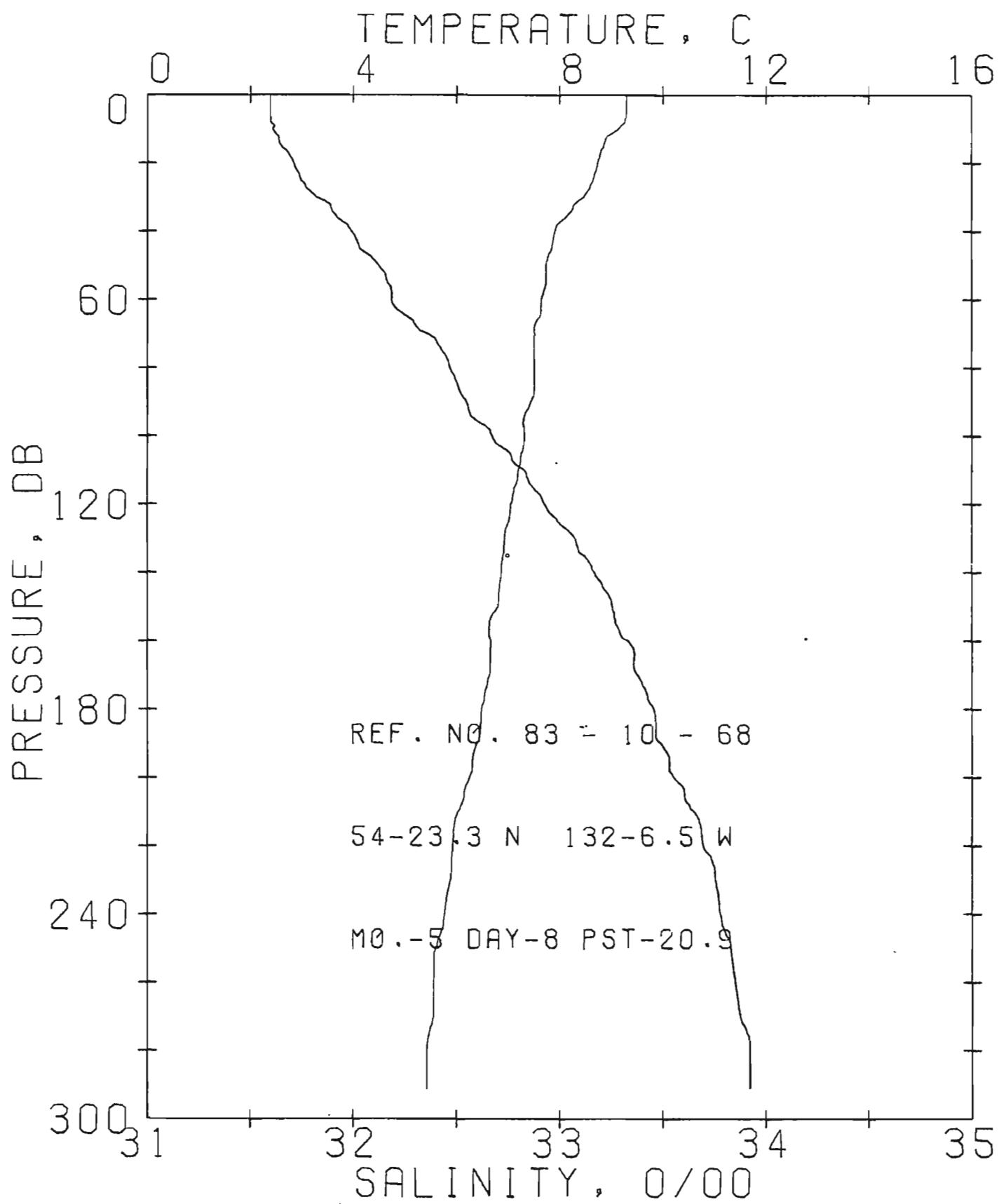
POSITION 54-28.8N, 132- 6.5W 20.1 STATION Q57

RESULTS OF STP CAST 281 POINTS TAKEN FROM DIGITAL SYSTEM

GUILDLINE WAS USED,PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	9.34	31.72	0	24.52	342.2	.00	.00	1484.
10	9.29	31.70	10	24.52	342.6	.34	.02	1484.
20	9.14	31.70	20	24.54	340.9	.68	.07	1483.
30	8.89	31.70	30	24.58	336.9	1.02	.16	1483.
50	8.24	31.90	50	24.83	313.4	1.68	.42	1481.
75	7.83	32.16	75	25.09	288.9	2.43	.90	1480.
100	7.37	32.52	99	25.44	256.3	3.12	1.51	1479.
125	7.06	32.88	124	25.77	225.6	3.71	2.19	1479.
150	6.90	33.12	149	25.98	205.6	4.25	2.94	1479.
175	6.71	33.40	174	26.22	183.2	4.73	3.74	1479.
200	6.40	33.54	199	26.37	169.0	5.17	4.58	1478.
225	6.11	33.71	223	26.54	153.1	5.57	5.45	1477.
250	5.77	33.80	248	26.66	142.2	5.94	6.34	1477.

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REFERENCE NO. 83-10- 68 DATE 8/ 5/83

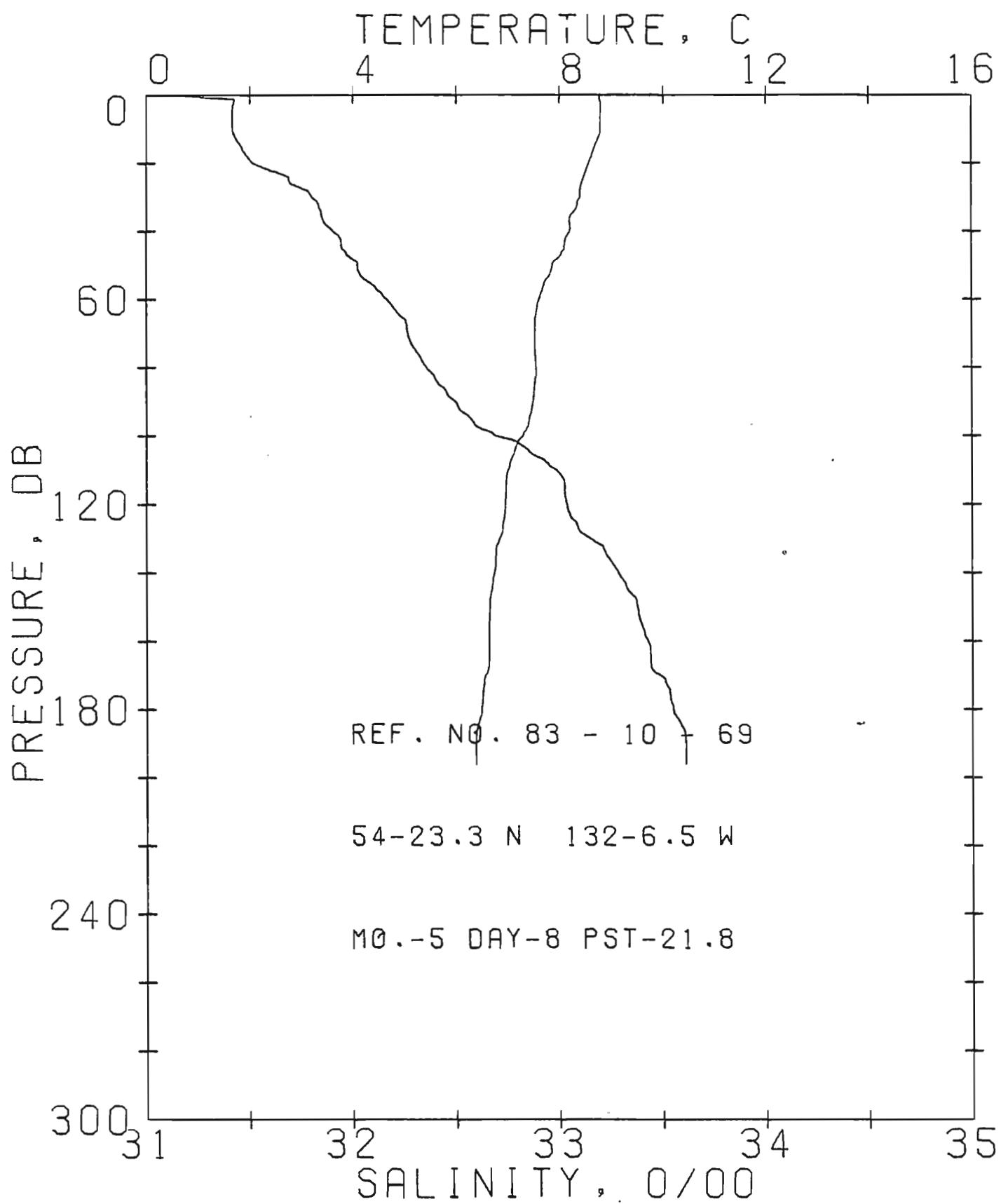
POSITION 54-23.3N, 132- 6.5W 20.9 STATION Q58

RESULTS OF STP CAST 292 POINTS TAKEN FROM DIGITAL SYSTEM

GUILDLINE WAS USED,PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	9.30	31.60	0	24.43	350.5	.00	.00	1483.
10	9.14	31.61	10	24.47	347.5	.35	.02	1483.
20	8.73	31.72	20	24.61	333.6	.69	.07	1482.
30	8.45	31.83	30	24.74	321.5	1.02	.15	1481.
50	7.74	32.13	50	25.08	289.5	1.62	.40	1479.
75	7.52	32.43	75	25.35	264.1	2.32	.84	1479.
100	7.33	32.68	99	25.57	243.9	2.96	1.41	1479.
125	7.02	32.99	124	25.86	216.5	3.53	2.07	1479.
150	6.82	33.26	149	26.09	194.7	4.04	2.78	1478.
175	6.56	33.42	174	26.26	179.3	4.51	3.55	1478.
200	6.26	33.56	199	26.40	165.9	4.94	4.38	1477.
225	5.91	33.74	223	26.59	148.1	5.33	5.22	1477.
250	5.60	33.83	248	26.70	138.0	5.69	6.09	1476.

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OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 83-10- 69

DATE 8/ 5/83

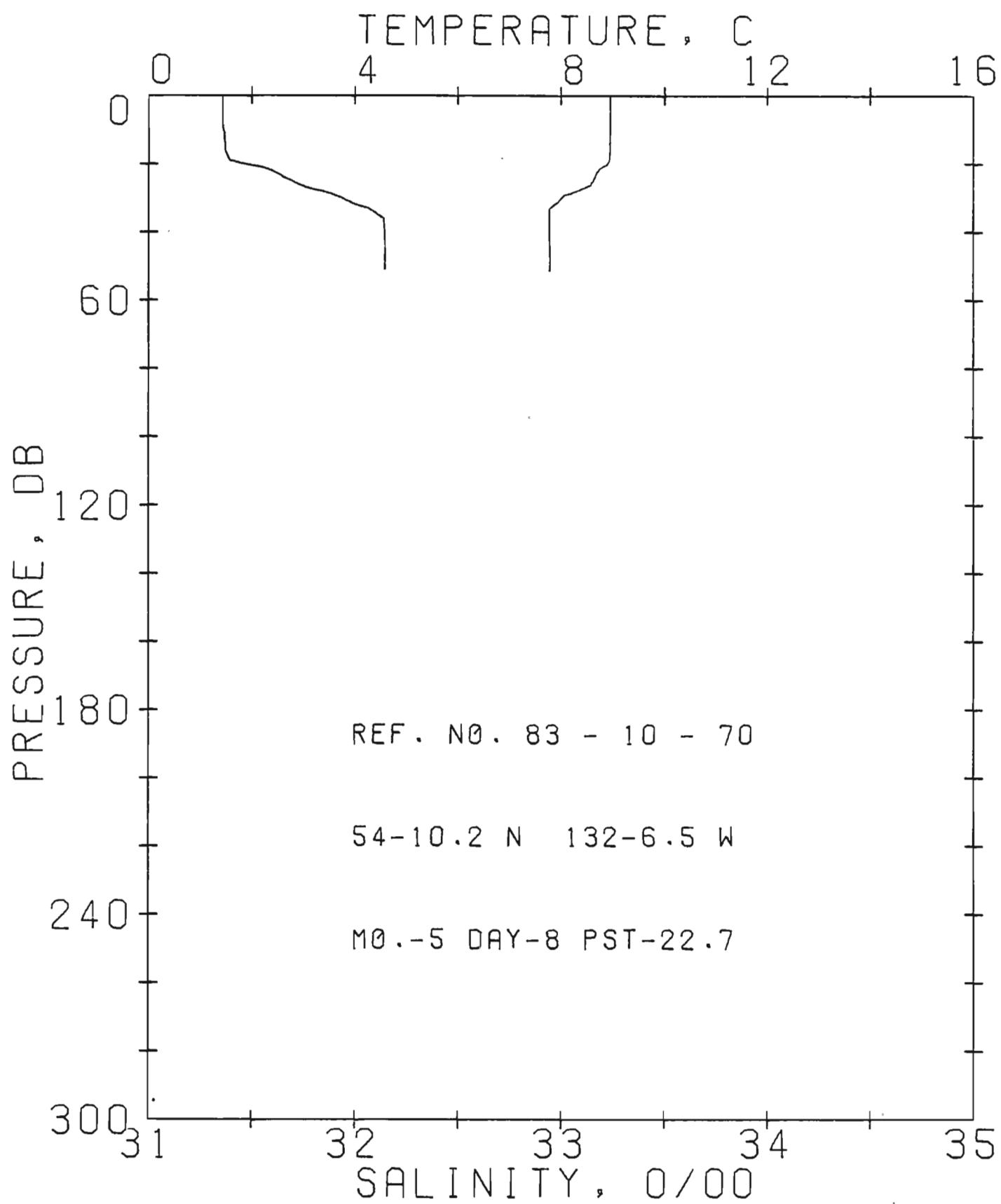
POSITION 54-23.3N, 132- 6.5W 21.8 STATION Q59

RESULTS OF STP CAST 197 POINTS TAKEN FROM DIGITAL SYSTEM

GUILDLINE WAS USED,PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	8.77	31.19	0	24.20	372.8	.00	.00	1481.
10	8.81	31.42	10	24.37	356.6	.36	.02	1482.
20	8.57	31.52	20	24.49	345.8	.71	.07	1481.
30	8.40	31.81	30	24.74	322.2	1.04	.16	1481.
50	7.87	32.03	50	24.98	298.8	1.66	.41	1479.
75	7.52	32.31	75	25.25	273.4	2.37	.86	1479.
100	7.31	32.69	99	25.58	242.5	3.03	1.44	1479.
125	6.91	33.08	124	25.94	208.6	3.57	2.07	1478.
150	6.65	33.38	149	26.21	183.5	4.06	2.74	1478.
175	6.52	33.53	174	26.35	170.5	4.50	3.48	1478.

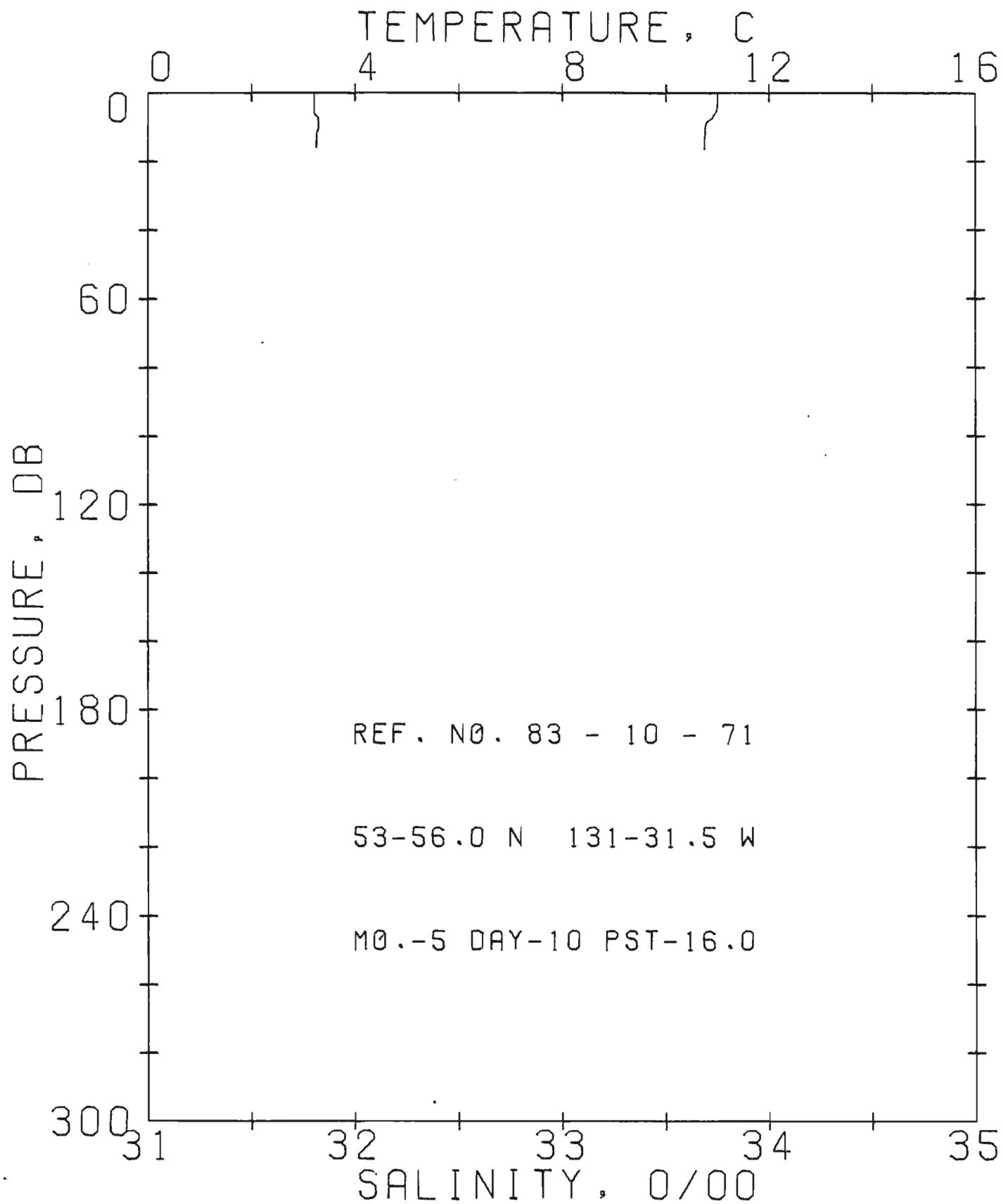
128



OFFSHORE OCEANOGRAPHY GROUP
REFERENCE NO. 83-10- 70 DATE 8/ 5/83
POSITION 54-10.2N, 132- 6.5W 22.7 STATION Q60
RESULTS OF STP CAST 52 POINTS TAKEN FROM DIGITAL SYSTEM
GUILDLINE WAS USED,PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	8.96	31.36	0	24.30	363.0	.00	.00	1482.
10	8.96	31.36	10	24.31	362.9	.36	.02	1482.
20	8.90	31.46	20	24.39	354.9	.72	.07	1482.
30	8.01	31.94	30	24.90	306.6	1.06	.16	1479.
50	7.79	32.15	50	25.09	288.6	1.64	.39	1479.

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13)

OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 83-10- 71 DATE 10/ 5/83

POSITION 53-56.0N, 131-31.5W 16.0 STATION R 7

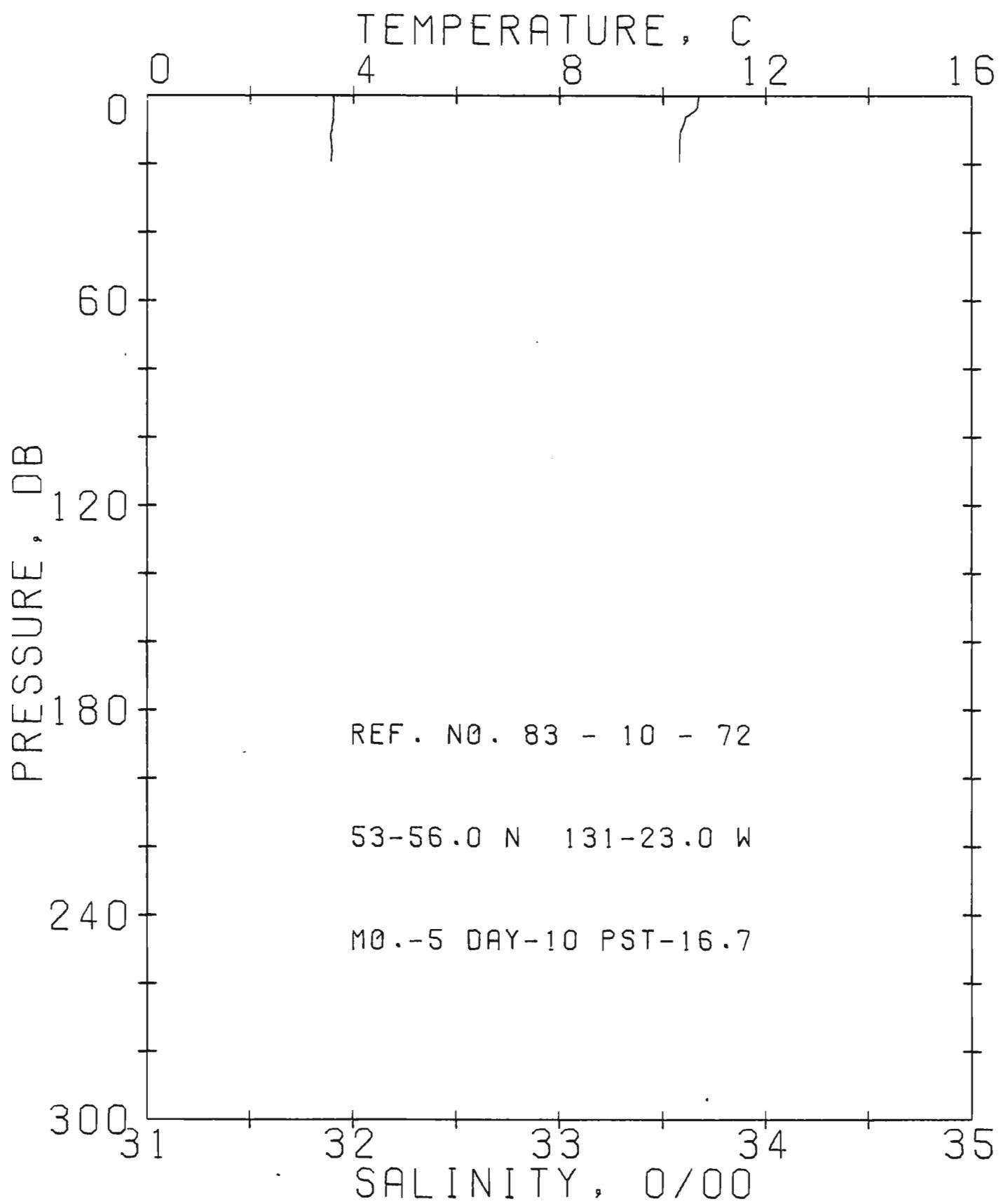
RESULTS OF STP CAST 15 POINTS TAKEN FROM DIGITAL SYSTEM

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	11.00	31.81	0	24.32	361.9	.00	.00	1490.
10	10.76	31.83	10	24.37	356.5	.36	.02	1489.

PRES	DEPTH	TEMP	SAL	PRES	DEPTH	TEMP	SAL
0.		11.00	31.81	9.		10.77	31.83
1.		11.00	31.81	10.		10.76	31.83
3.		11.00	31.81	12.		10.76	31.82
4.		11.00	31.81	13.		10.75	31.82
5.		10.99	31.81	14.		10.75	31.82
6.		10.95	31.81	15.		10.75	31.82
7.		10.91	31.83	16.		10.75	31.82
8.		10.81	31.83				

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OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 83-10- 72 DATE 10/ 5/83

POSITION 53-56.0N, 131-23.0W 16.7 STATION R 6

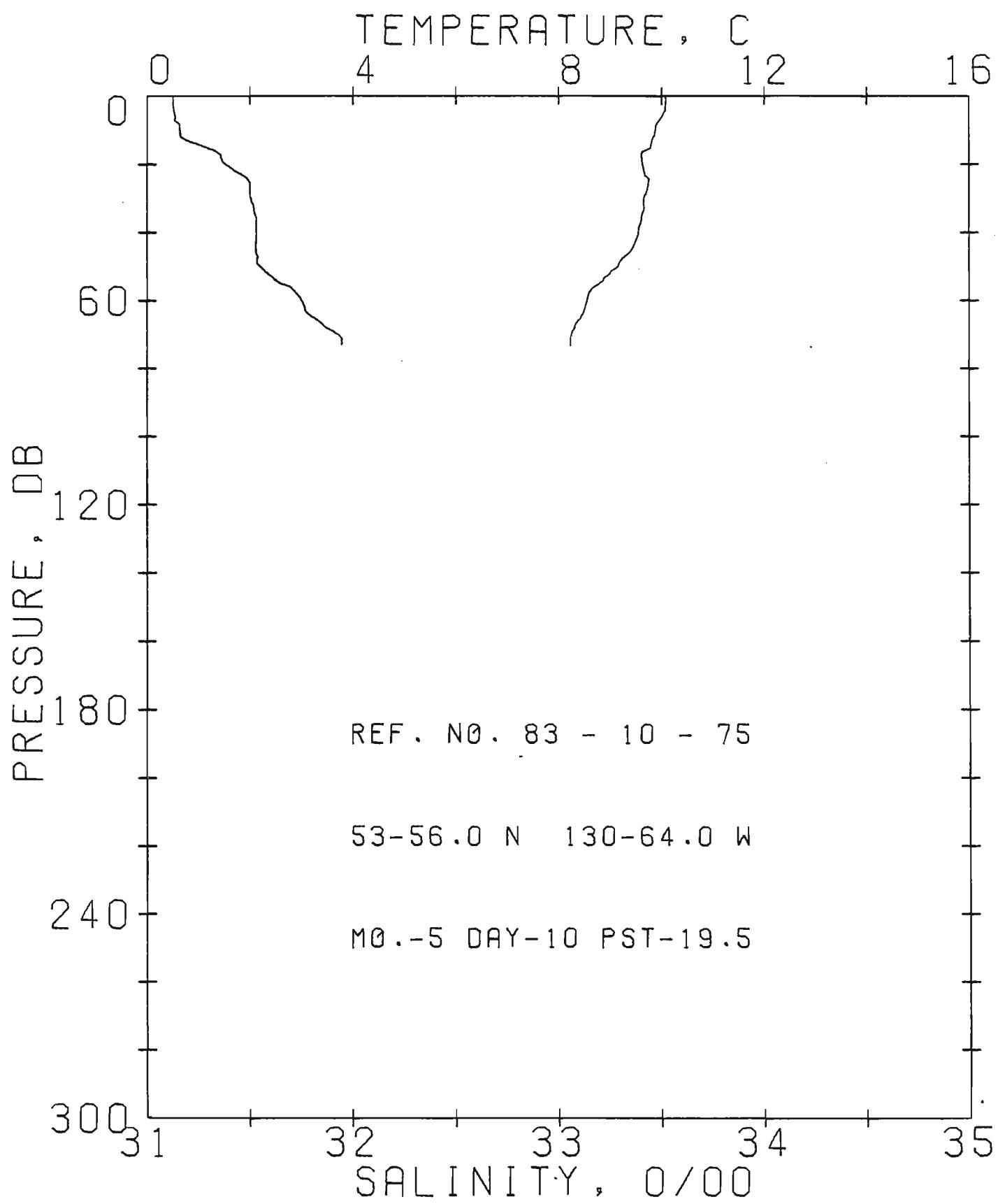
RESULTS OF STP CAST 20 POINTS TAKEN FROM DIGITAL SYSTEM

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	10.70	31.90	0	24.44	349.7	.00	.00	1489.
10	10.36	31.90	10	24.50	344.4	.35	.02	1488.
20	10.33	31.89	20	24.50	344.7	.69	.07	1488.

PRES	DEPTH	TEMP	SAL	PRES	DEPTH	TEMP	SAL
0.		10.70	31.90	10.		10.36	31.90
1.		10.69	31.91	11.		10.34	31.89
2.		10.68	31.91	12.		10.33	31.89
3.		10.68	31.91	13.		10.33	31.90
4.		10.65	31.91	14.		10.33	31.90
5.		10.55	31.91	15.		10.33	31.90
6.		10.44	31.91	16.		10.33	31.90
7.		10.43	31.91	17.		10.32	31.90
8.		10.41	31.90	18.		10.32	31.90
9.		10.38	31.90	19.		10.32	31.90

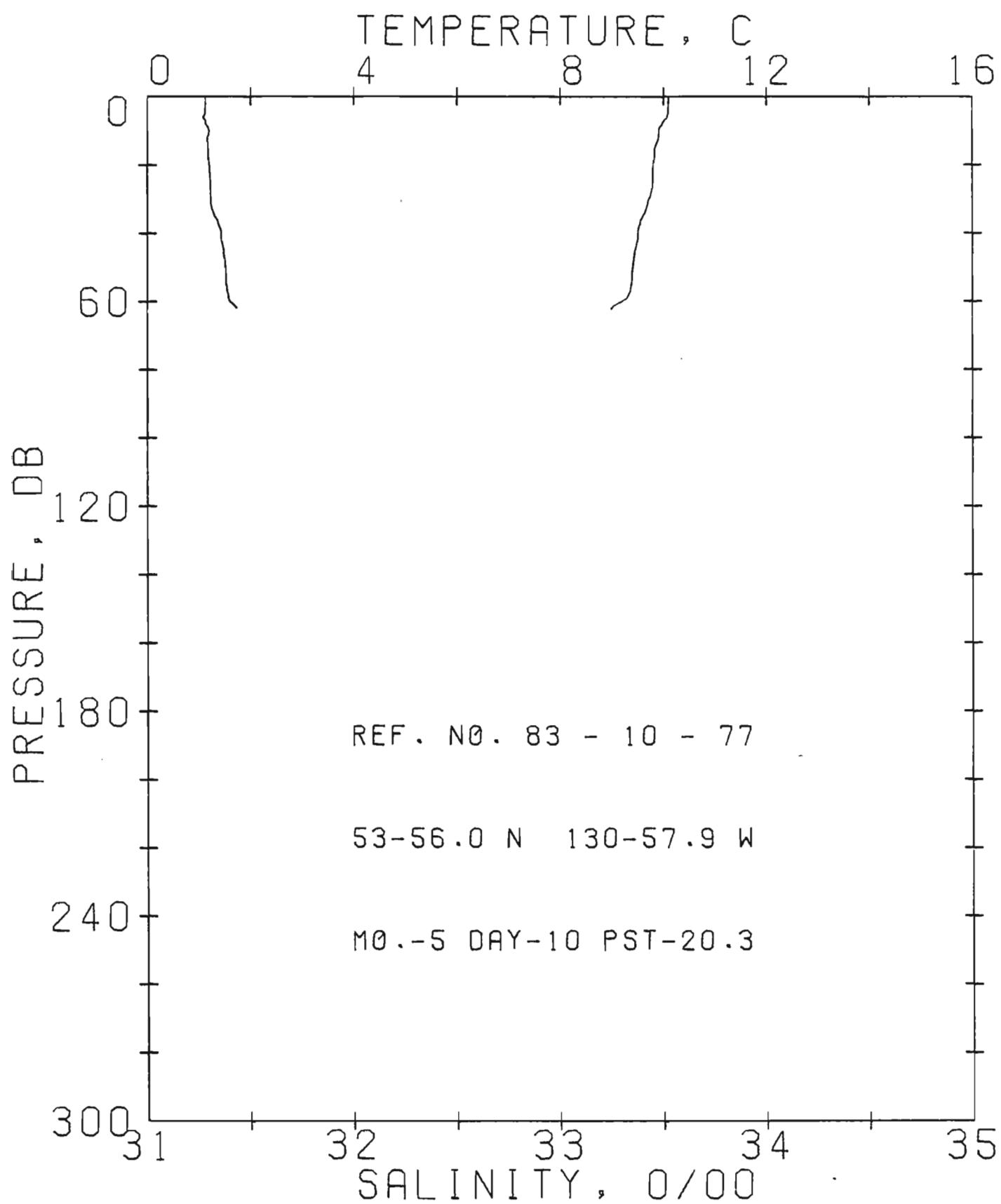
134



OFFSHORE OCEANOGRAPHY GROUP
REFERENCE NO. 83-10- 75 DATE 10/ 5/83
POSITION 53-56.0N, 130-64.0W 19.5 STATION R 3
RESULTS OF STP CAST 74 POINTS TAKEN FROM DIGITAL SYSTEM
GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	10.08	31.13	0	23.94	397.3	.00	.00	1486.
10	9.88	31.16	10	24.00	391.9	.40	.02	1485.
20	9.62	31.39	20	24.22	371.2	.78	.08	1485.
30	9.65	31.51	30	24.31	362.8	1.14	.17	1485.
50	9.15	31.55	50	24.43	352.1	1.86	.46	1484.
75	8.23	31.94	75	24.87	310.3	2.69	.98	1481.

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OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 83-10- 77 DATE 10/ 5/83

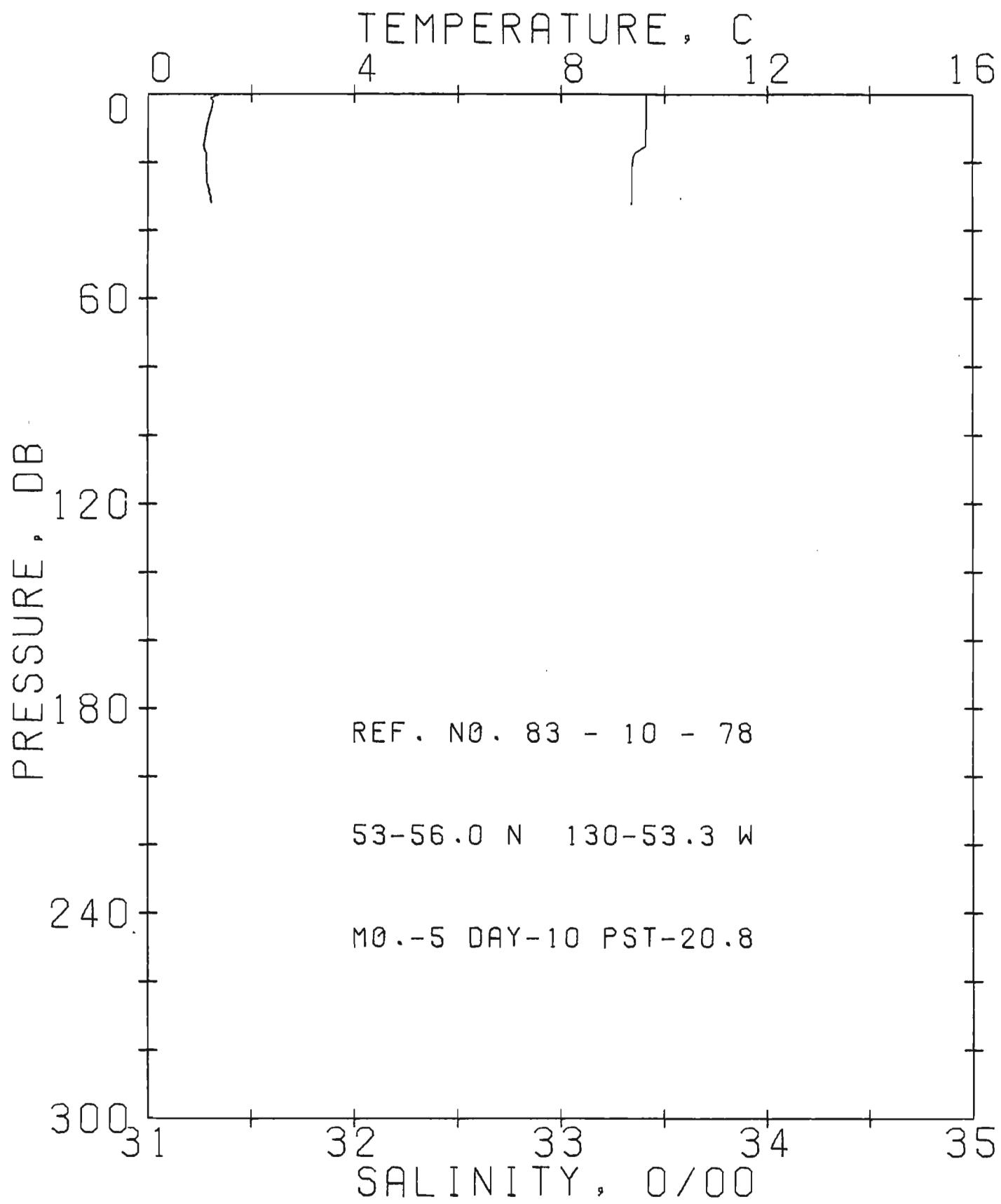
POSITION 53-56.0N, 130-57.9W 20.3 STATION R 2

RESULTS OF STP CAST 63 POINTS TAKEN FROM DIGITAL SYSTEM

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	10.10	31.28	0	24.06	386.1	.00	.00	1486.
10	9.92	31.30	10	24.11	381.9	.39	.02	1486.
20	9.80	31.30	20	24.13	380.3	.77	.08	1485.
30	9.72	31.31	30	24.15	378.5	1.15	.17	1485.
50	9.41	31.38	50	24.25	369.0	1.89	.48	1484.

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OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 83-10- 78 DATE 10/ 5/83

POSITION 53-56.0N, 130-53.3W 20.8 STATION R 1

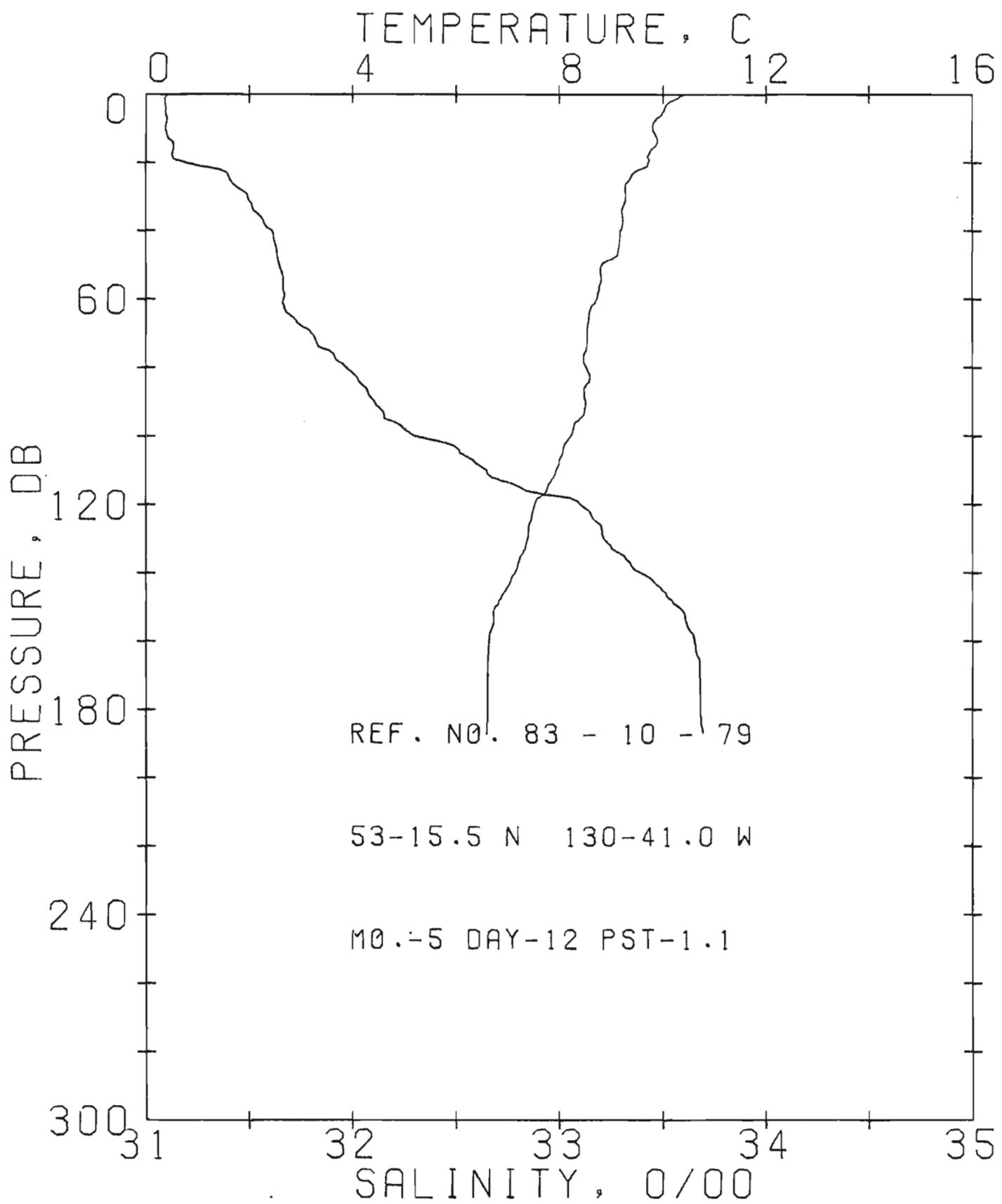
RESULTS OF STP CAST 33 POINTS TAKEN FROM DIGITAL SYSTEM

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	9.64	31.34	0	24.18	374.7	.00	.00	1484.
10	9.64	31.28	10	24.14	379.0	.38	.02	1484.
20	9.39	31.28	20	24.17	375.6	.76	.08	1484.
30	9.38	31.31	30	24.20	373.7	1.13	.17	1484.

PRES	DEPTH	TEMP	SAL	PRES	DEPTH	TEMP	SAL
0.		9.64	31.34	17.		9.44	31.28
1.		9.64	31.30	18.		9.40	31.29
2.		9.64	31.32	19.		9.40	31.28
3.		9.64	31.31	20.		9.39	31.28
4.		9.65	31.31	21.		9.38	31.28
5.		9.65	31.30	22.		9.37	31.28
6.		9.64	31.30	23.		9.36	31.28
7.		9.64	31.29	24.		9.36	31.28
8.		9.64	31.29	25.		9.36	31.29
9.		9.64	31.28	26.		9.36	31.28
10.		9.64	31.28	27.		9.36	31.29
11.		9.64	31.28	28.		9.37	31.30
12.		9.64	31.28	29.		9.37	31.30
13.		9.64	31.27	30.		9.38	31.31
14.		9.64	31.27	31.		9.38	31.30
15.		9.64	31.27	32.		9.37	31.31
16.		9.53	31.27				

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OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 83-10- 79 DATE 12/ 5/83

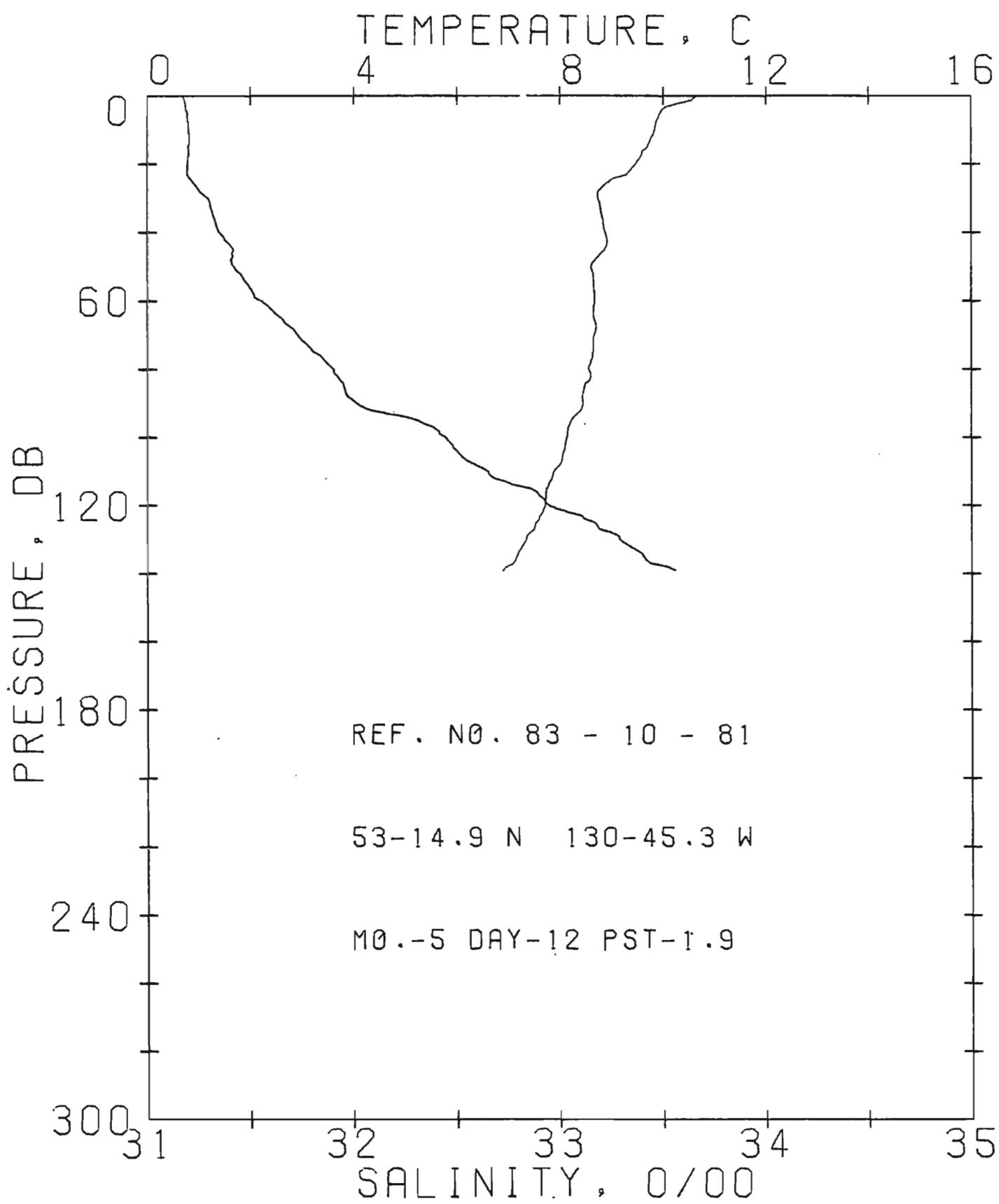
POSITION 53-15.5N, 130-41.0W 1.1 STATION W 7

RESULTS OF STP CAST 188 POINTS TAKEN FROM DIGITAL SYSTEM

GUIDELINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	10.39	31.10	0	23.88	403.8	.00	.00	1487.
10	9.79	31.09	10	23.97	395.4	.40	.02	1485.
20	9.72	31.19	20	24.05	387.1	.79	.08	1485.
30	9.30	31.49	30	24.36	358.4	1.16	.17	1484.
50	8.82	31.65	50	24.55	340.4	1.86	.46	1483.
75	8.52	31.89	75	24.79	318.2	2.69	.99	1482.
100	8.23	32.30	99	25.15	284.0	3.45	1.66	1482.
125	7.44	33.18	124	25.95	208.0	4.06	2.36	1480.
150	6.75	33.58	149	26.36	169.8	4.54	3.02	1479.
175	6.62	33.68	174	26.45	160.9	4.95	3.70	1479.

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OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 83-10- 81 DATE 12/ 5/83

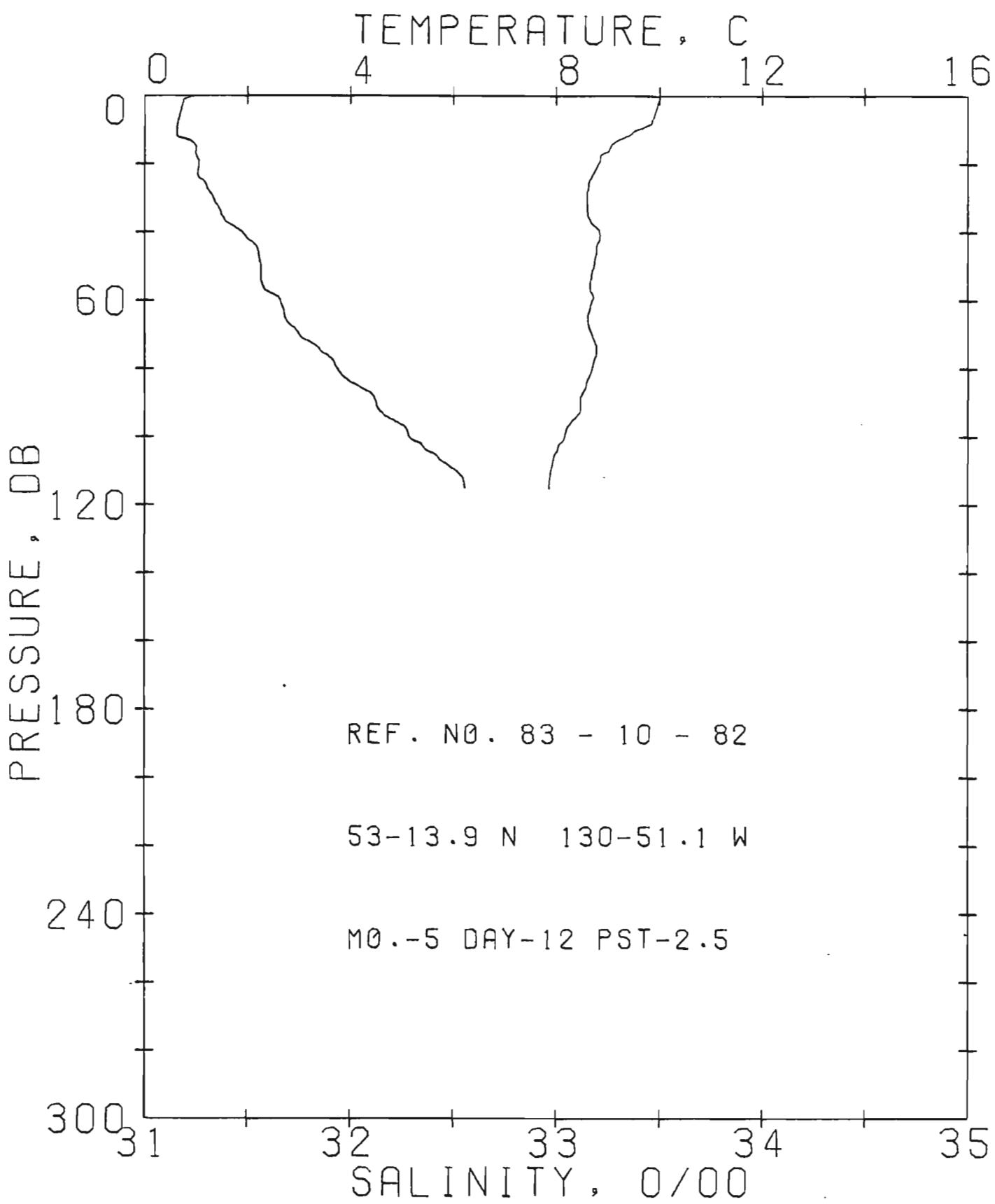
POSITION 53-14.9N, 130-45.3W 1.9 STATION W10

RESULTS OF STP CAST 140 POINTS TAKEN FROM DIGITAL SYSTEM

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	10.65	31.17	0	23.89	402.7	.00	.00	1488.
10	9.84	31.20	10	24.04	388.1	.39	.02	1485.
20	9.47	31.19	20	24.10	383.2	.78	.08	1484.
30	8.73	31.30	30	24.29	364.5	1.15	.17	1481.
50	8.59	31.42	50	24.41	353.8	1.87	.47	1481.
75	8.63	31.81	75	24.71	325.6	2.73	1.01	1482.
100	8.13	32.45	99	25.28	271.7	3.49	1.69	1482.
125	7.54	33.17	124	25.93	210.3	4.10	2.39	1481.

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OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 83-10- 82 DATE 12/ 5/83

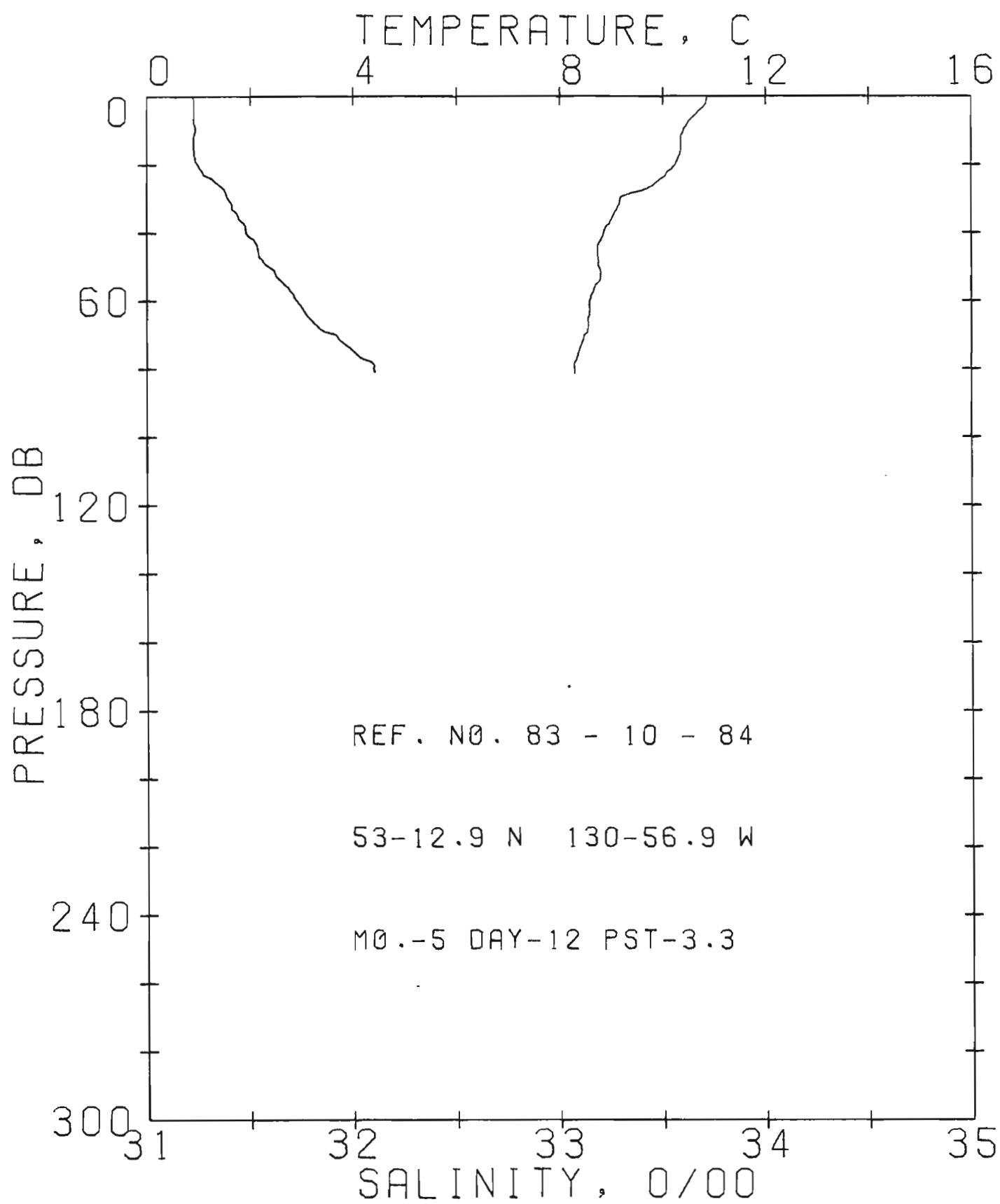
POSITION 53-13.9N, 130-51.1W 2.5 STATION W11

RESULTS OF STP CAST 116 POINTS TAKEN FROM DIGITAL SYSTEM

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	10.03	31.24	0	24.04	388.1	.00	.00	1486.
10	9.53	31.15	10	24.05	386.9	.39	.02	1484.
20	8.81	31.26	20	24.25	368.3	.77	.08	1482.
30	8.60	31.34	30	24.34	360.0	1.13	.17	1481.
50	8.74	31.57	50	24.50	345.0	1.84	.46	1482.
75	8.78	31.86	75	24.72	324.3	2.68	.99	1483.
100	8.18	32.29	99	25.14	284.4	3.44	1.67	1482.

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OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 83-10- 84

DATE 12/ 5/83

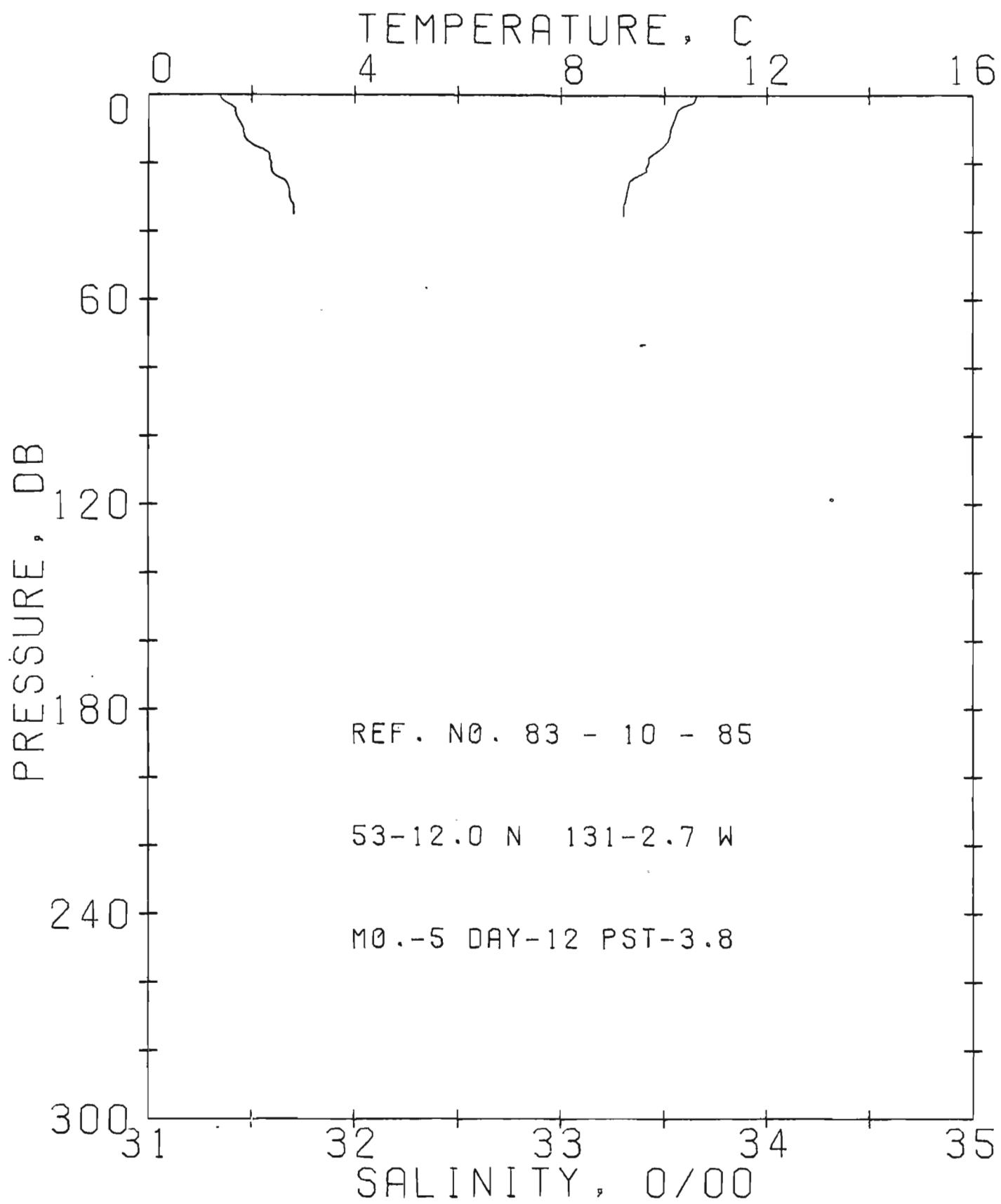
POSITION 53-12.9N, 130-56.9W 3.3 STATION W12

RESULTS OF STP CAST 82 POINTS TAKEN FROM DIGITAL SYSTEM

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	10.86	31.22	0	23.89	402.5	.00	.00	1489.
10	10.39	31.23	10	23.98	394.2	.40	.02	1487.
20	10.23	31.25	20	24.01	391.0	.79	.08	1487.
30	9.18	31.40	30	24.30	364.0	1.17	.18	1483.
50	8.76	31.59	50	24.52	343.5	1.88	.46	1482.
75	8.37	32.01	75	24.90	307.4	2.70	.98	1482.

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OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 83-10- 85

DATE 12/ 5/83

POSITION 53-12.0N, 131- 2.7W 3.8 STATION W13

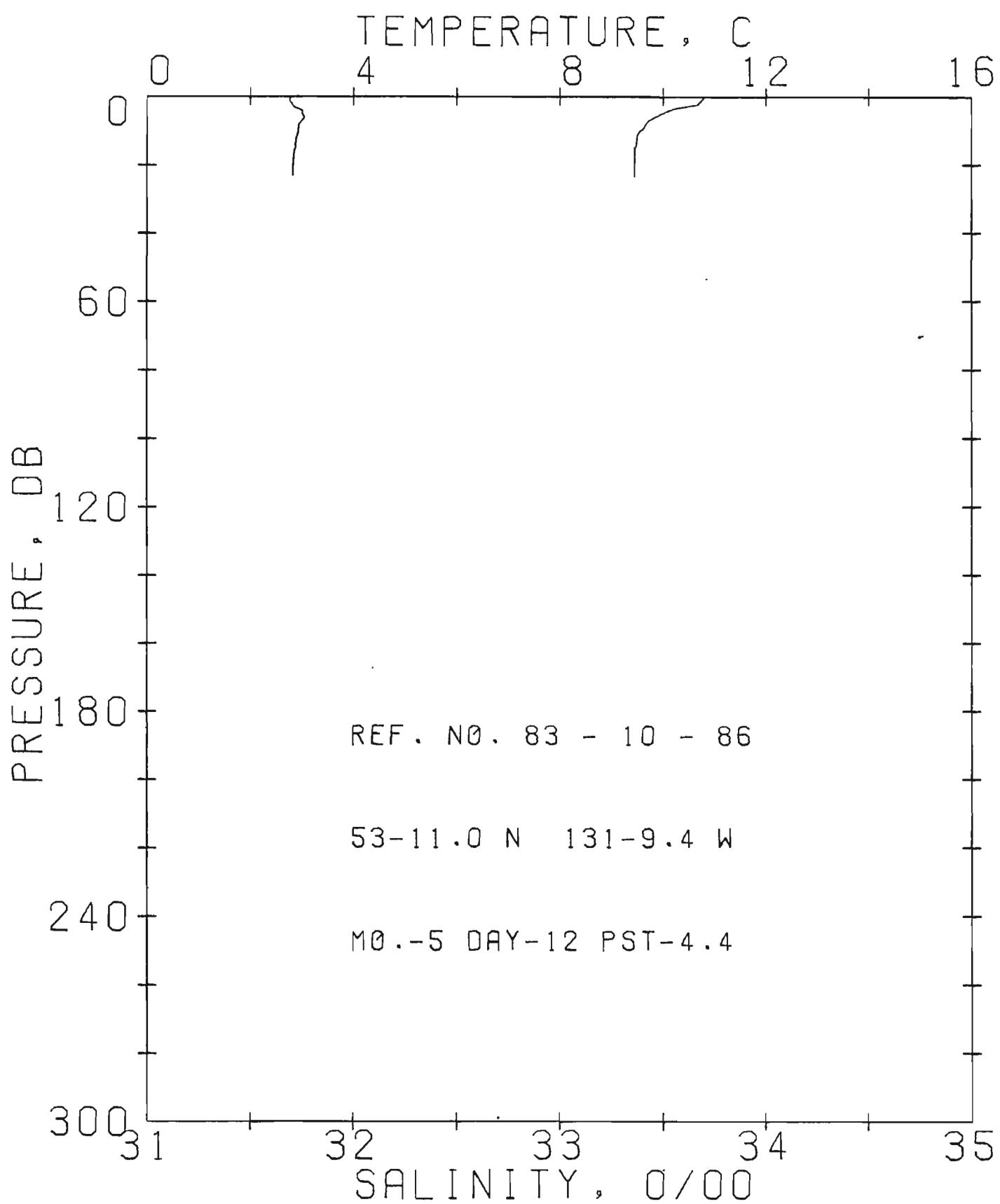
RESULTS OF STP CAST 36 POINTS TAKEN FROM DIGITAL SYSTEM

GUIDELINE WAS USED,PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	10.63	31.35	0	24.03	389.5	.00	.00	1488.
10	10.13	31.46	10	24.20	373.3	.38	.02	1486.
20	9.69	31.60	20	24.37	356.6	.75	.07	1485.
30	9.28	31.69	30	24.51	343.9	1.09	.16	1484.

PRES	DEPTH	TEMP	SAL	PRES	DEPTH	TEMP	SAL
0.		10.63	31.35	18.		9.70	31.59
1.		10.61	31.35	19.		9.72	31.59
2.		10.58	31.37	20.		9.69	31.60
3.		10.37	31.40	21.		9.65	31.59
4.		10.28	31.42	22.		9.68	31.60
5.		10.25	31.42	23.		9.55	31.61
6.		10.23	31.43	24.		9.43	31.63
7.		10.20	31.44	25.		9.34	31.67
8.		10.18	31.45	26.		9.32	31.68
9.		10.15	31.45	27.		9.31	31.68
10.		10.13	31.46	28.		9.29	31.68
11.		10.12	31.46	29.		9.29	31.69
12.		10.11	31.47	30.		9.28	31.69
13.		10.09	31.47	31.		9.26	31.69
14.		10.04	31.50	32.		9.23	31.70
15.		9.98	31.52	33.		9.22	31.71
16.		9.90	31.56	34.		9.23	31.70
17.		9.79	31.59	35.		9.22	31.70

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REFERENCE NO. 83-10- 86 DATE 12/ 5/83

POSITION 53-11.0N, 131- 9.4W 4.4 STATION W14

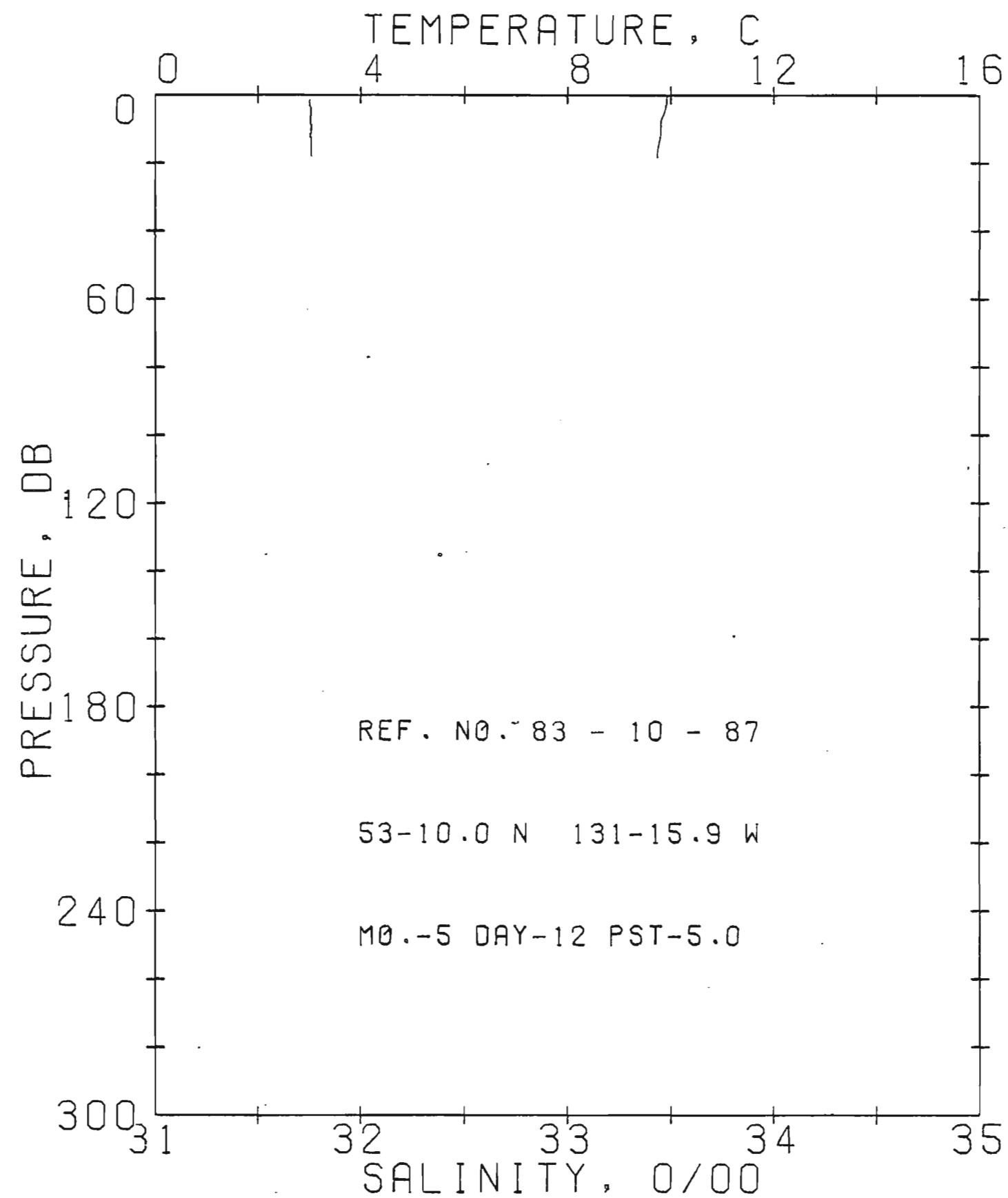
RESULTS OF STP CAST 24 POINTS TAKEN FROM DIGITAL SYSTEM

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	10.79	31.69	0	24.26	366.7	.00	.00	1489.
10	9.54	31.73	10	24.50	344.3	.35	.02	1485.
20	9.45	31.71	20	24.50	344.8	.70	.07	1484.

PRES	DEPTH	TEMP	SAL	PRES	DEPTH	TEMP	SAL
0.		10.79	31.69	12.		9.50	31.72
1.		10.74	31.69	13.		9.49	31.72
2.		10.68	31.70	14.		9.48	31.72
3.		10.27	31.72	15.		9.45	31.72
4.		10.09	31.76	16.		9.45	31.71
5.		9.94	31.75	17.		9.45	31.71
6.		9.81	31.76	18.		9.45	31.71
7.		9.70	31.75	19.		9.45	31.71
8.		9.67	31.73	20.		9.45	31.71
9.		9.62	31.73	21.		9.45	31.71
10.		9.54	31.73	22.		9.45	31.71
11.		9.50	31.73	23.		9.45	31.71

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OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 83-10- 87 DATE 12/ 5/83

POSITION 53-10.0N, 131-15.9W 5.0 STATION W15

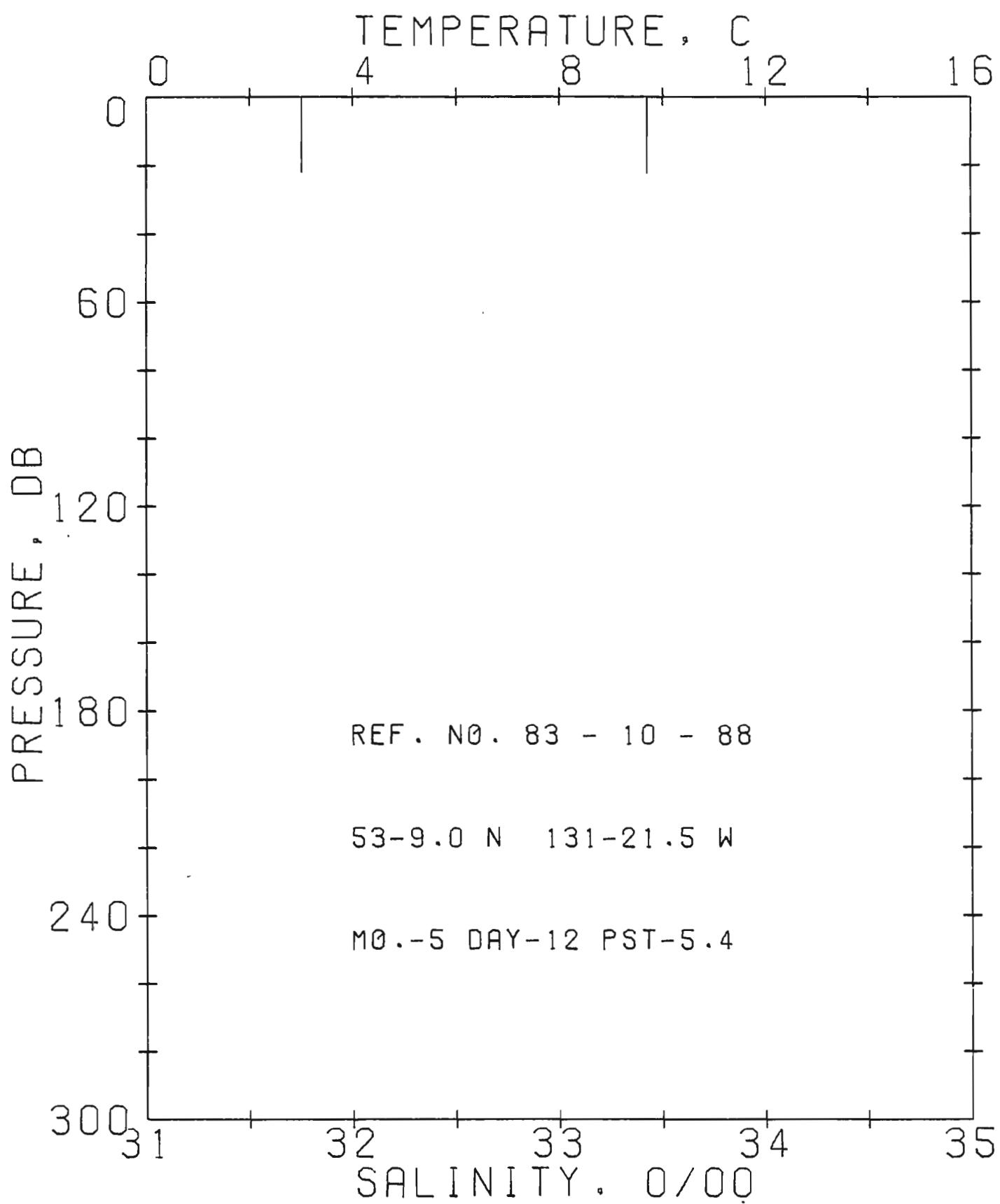
RESULTS OF STP CAST 19 POINTS TAKEN FROM DIGITAL SYSTEM

GUILDLINE WAS USED,PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	9.93	31.75	0	24.45	348.8	.00	.00	1486.
10	9.81	31.76	10	24.48	346.4	.35	.02	1486.

PRES	DEPTH	TEMP	SAL	PRES	DEPTH	TEMP	SAL
0.		9.93	31.75	10.		9.81	31.76
1.		9.93	31.76	11.		9.80	31.76
2.		9.93	31.75	12.		9.80	31.75
3.		9.91	31.75	13.		9.79	31.76
4.		9.90	31.76	14.		9.78	31.76
5.		9.88	31.76	15.		9.76	31.76
6.		9.85	31.75	16.		9.75	31.76
7.		9.82	31.75	17.		9.74	31.76
8.		9.81	31.76	18.		9.74	31.76
9.		9.80	31.76				

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OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 83-10- 88 DATE 12/ 5/83

POSITION 53- 9.0N, 131-21.5W 5.4 STATION W16

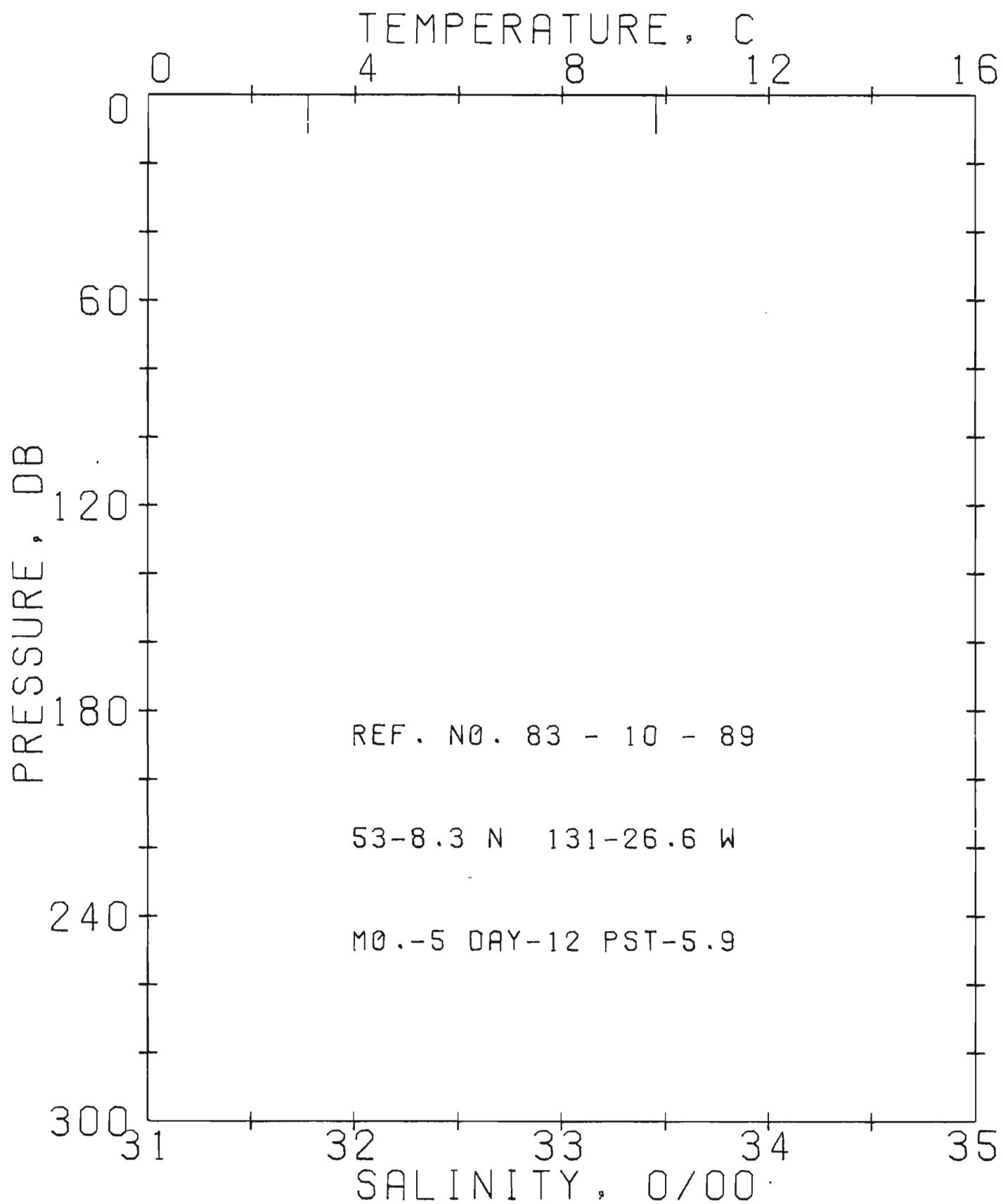
RESULTS OF STP CAST 23 POINTS TAKEN FROM DIGITAL SYSTEM

GUILDLINE WAS USED,PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	9.70	31.75	0	24.49	344.9	.00	.00	1485.
10	9.70	31.76	10	24.49	344.9	.34	.02	1485.
20	9.70	31.75	20	24.49	345.1	.69	.07	1485.

PRES	DEPTH	TEMP	SAL	PRES	DEPTH	TEMP	SAL
0.		9.70	31.75	12.		9.70	31.76
1.		9.70	31.76	13.		9.70	31.75
2.		9.70	31.76	14.		9.70	31.75
3.		9.70	31.76	15.		9.70	31.76
4.		9.70	31.76	16.		9.70	31.76
5.		9.70	31.75	17.		9.70	31.76
6.		9.70	31.76	18.		9.70	31.75
7.		9.70	31.75	19.		9.70	31.76
8.		9.70	31.76	20.		9.70	31.75
9.		9.70	31.76	21.		9.70	31.75
10.		9.70	31.76	22.		9.70	31.76
11.		9.70	31.76				

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OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 83-10- 89 DATE 12/ 5/83

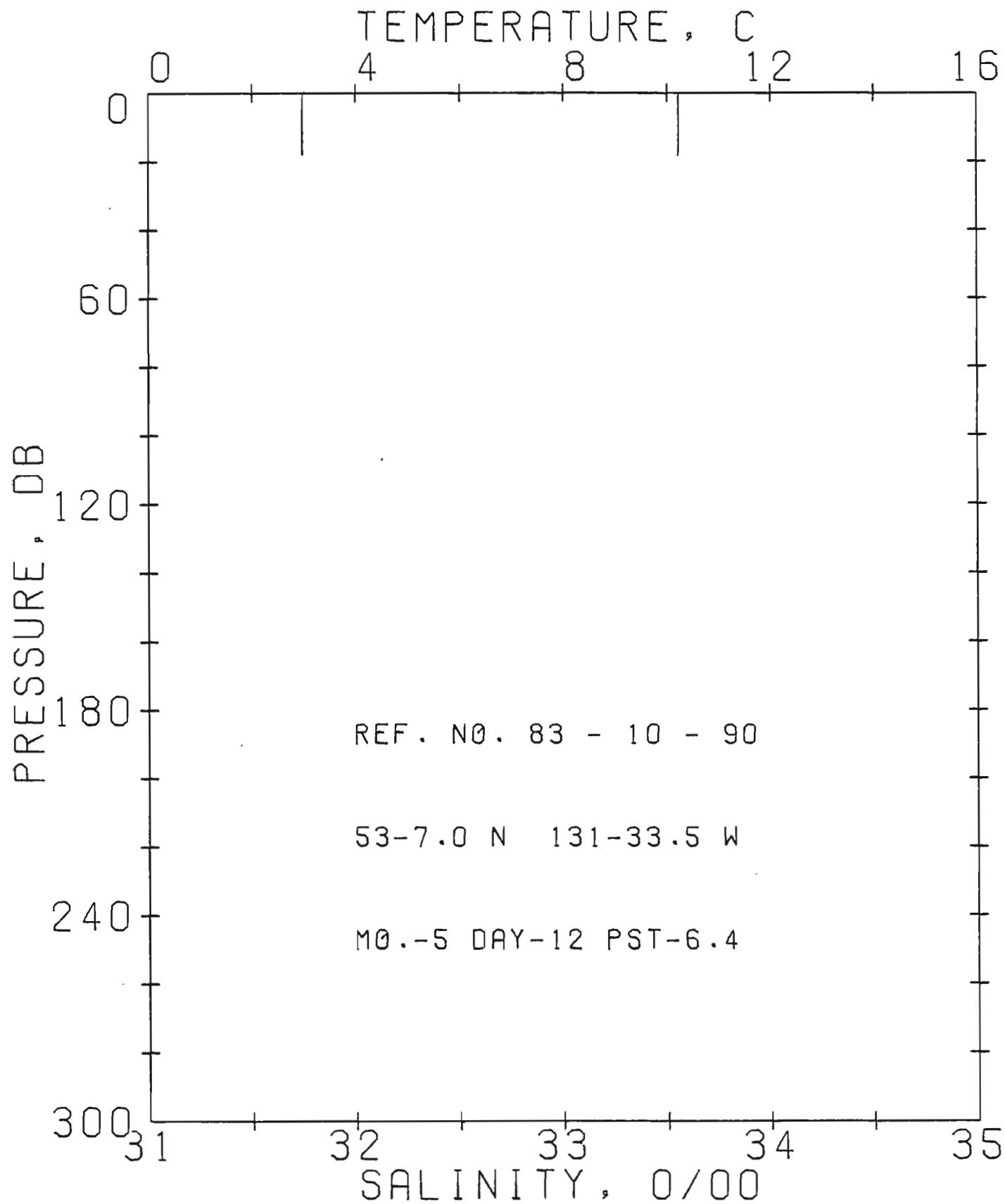
POSITION 53- 8.3N, 131-26.6W 5.9 STATION W15

RESULTS OF STP CAST 12 POINTS TAKEN FROM DIGITAL SYSTEM

GUILDLINE WAS USED,PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	9.81	31.77	0	24.49	345.0	.00	.00	1486.
10	9.81	31.77	10	24.49	345.2	.35	.02	1486.

PRES	DEPTH	TEMP	SAL	PRES	DEPTH	TEMP	SAL
0.		9.81	31.77	6.		9.81	31.77
1.		9.81	31.78	7.		9.81	31.77
2.		9.81	31.77	8.		9.81	31.77
3.		9.81	31.77	9.		9.81	31.77
4.		9.81	31.77	10.		9.81	31.77
5.		9.81	31.77	11.		9.81	31.77



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 83-10- 90 DATE 12/ 5/83

POSITION 53- 7.0N, 131-33.5W 6.4 STATION W16

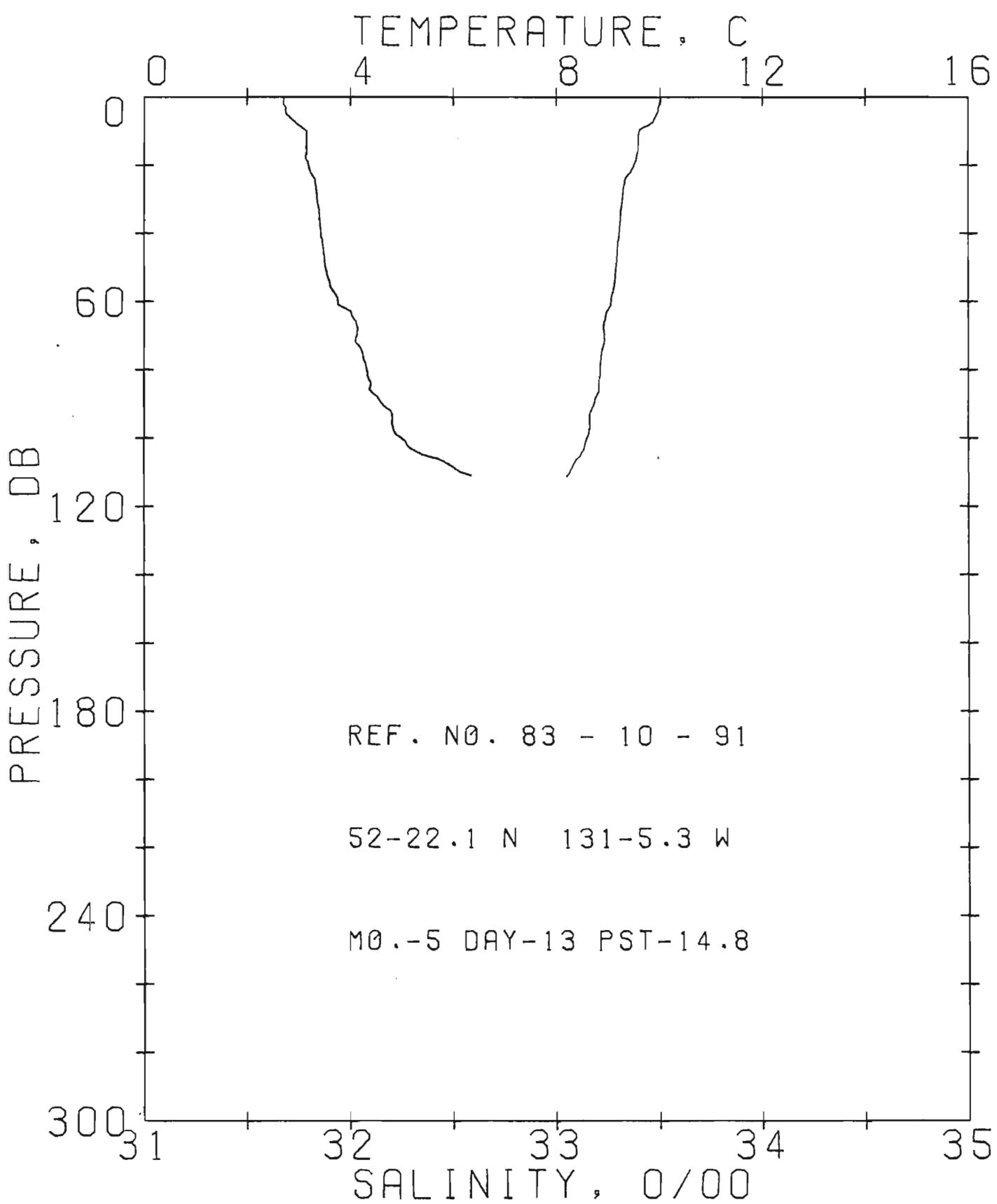
RESULTS OF STP CAST 19 POINTS TAKEN FROM DIGITAL SYSTEM

GUILDLINE WAS USED,PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	10.22	31.75	0	24.40	353.6	.00	.00	1487.
10	10.22	31.74	10	24.40	353.9	.35	.02	1487.

PRES	DEPTH	TEMP	SAL	PRES	DEPTH	TEMP	SAL
0.		10.22	31.75	10.		10.22	31.74
1.		10.22	31.75	11.		10.22	31.74
2.		10.22	31.75	12.		10.22	31.75
3.		10.22	31.75	13.		10.22	31.75
4.		10.22	31.75	14.		10.22	31.75
5.		10.22	31.74	15.		10.22	31.74
6.		10.22	31.74	16.		10.22	31.74
7.		10.22	31.75	17.		10.22	31.75
8.		10.22	31.75	18.		10.21	31.75
9.		10.22	31.75				

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REFERENCE NO. 83-10- 91 DATE 13/ 5/83

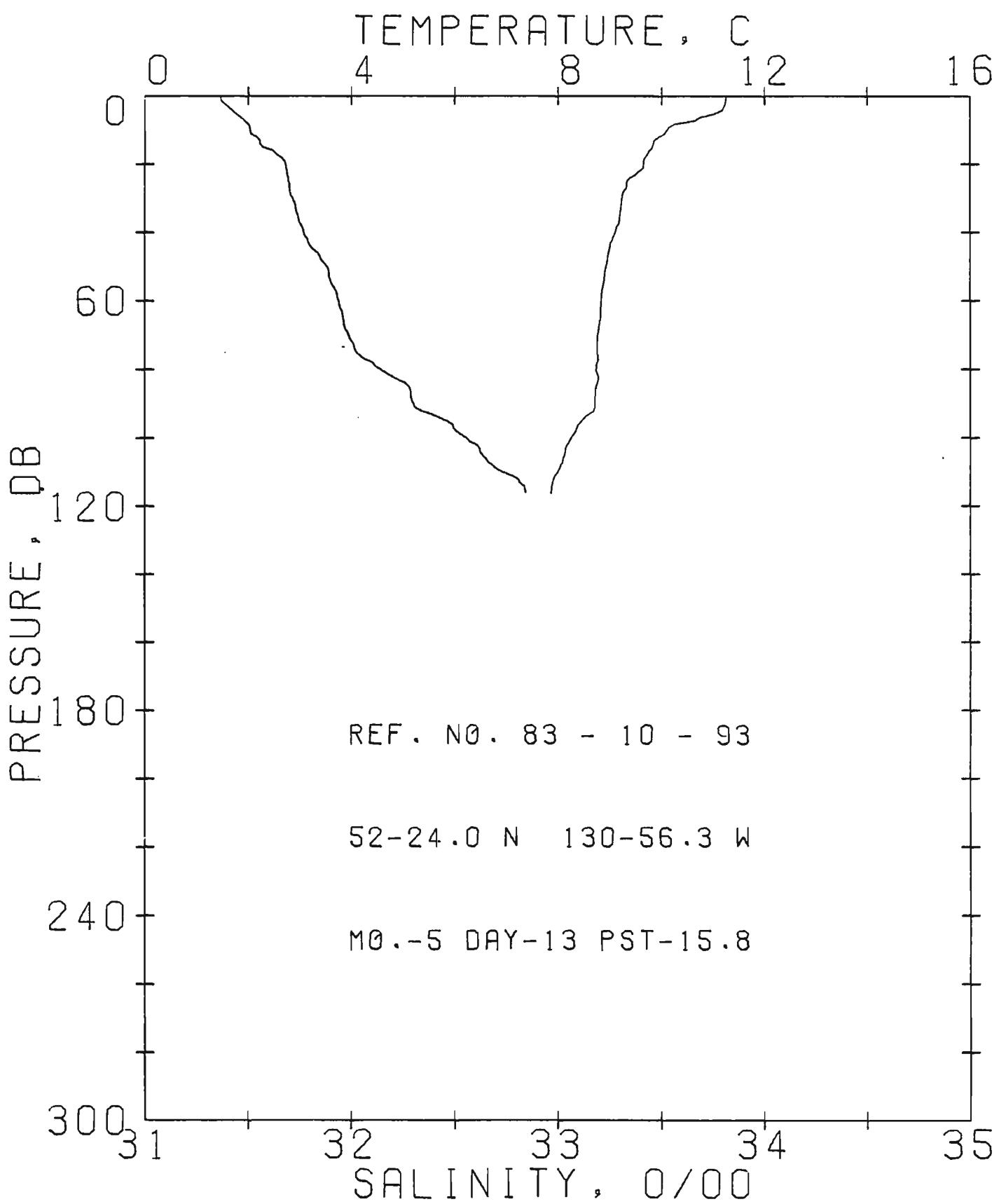
POSITION 52-22.1N, 131- 5.3W 14.8 STATION H 1

RESULTS OF STP CAST 112 POINTS TAKEN FROM DIGITAL SYSTEM

GUILDLINE WAS USED,PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	10.02	31.68	0	24.39	355.1	.00	.00	1486.
10	9.60	31.79	10	24.54	340.4	.35	.02	1485.
20	9.50	31.80	20	24.56	338.5	.69	.07	1485.
30	9.28	31.84	30	24.63	332.5	1.03	.15	1484.
50	9.15	31.88	50	24.68	327.7	1.69	.42	1484.
75	8.88	32.06	75	24.86	310.8	2.48	.93	1484.
100	8.59	32.25	99	25.05	293.1	3.24	1.61	1483.

162



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 83-10- 93 DATE 13/ 5/83

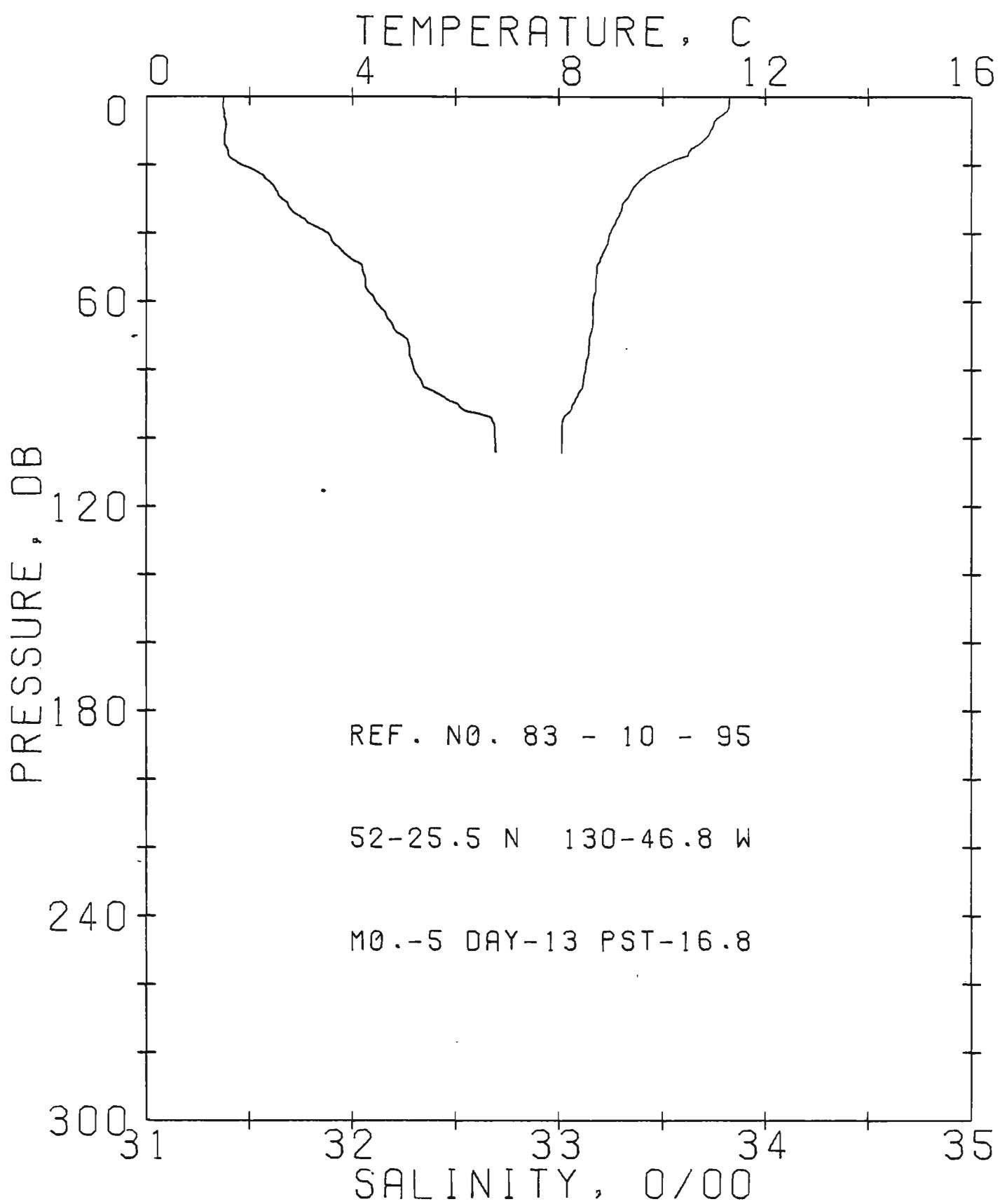
POSITION 52-24.ON, 130-56.3W 15.8 STATION M11

RESULTS OF STP CAST 117 POINTS TAKEN FROM DIGITAL SYSTEM

GUILDLINE WAS USED,PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	11.26	31.37	0	23.93	398.5	.00	.00	1490.
10	10.10	31.51	10	24.24	369.2	.39	.02	1486.
20	9.66	31.68	20	24.45	349.7	.74	.07	1485.
30	9.24	31.72	30	24.54	341.1	1.09	.16	1484.
50	8.93	31.89	50	24.72	324.3	1.76	.43	1483.
75	8.77	32.03	75	24.85	311.9	2.55	.94	1483.
100	8.26	32.56	99	25.35	265.2	3.28	1.58	1482.

164



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 83-10- 95 DATE 13/ 5/83

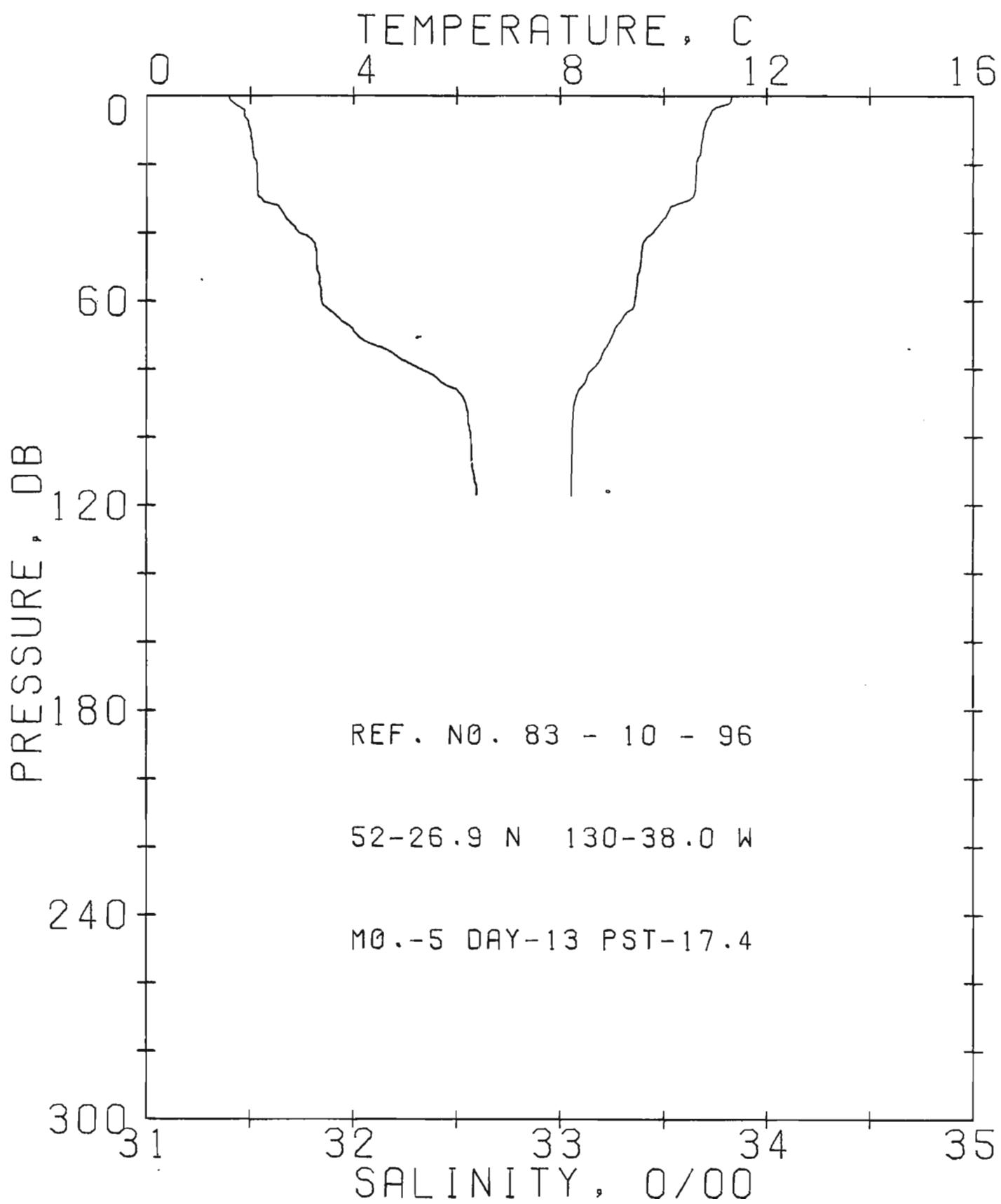
POSITION 52-25.5N, 130-46.8W 16.8 STATION M10

RESULTS OF STP CAST 105 POINTS TAKEN FROM DIGITAL SYSTEM

GUILDLINE WAS USED,PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	11.30	31.37	0	23.93	398.7	.00	.00	1490.
10	10.93	31.38	10	24.00	392.3	.40	.02	1489.
20	10.01	31.46	20	24.22	371.6	.78	.08	1486.
30	9.30	31.66	30	24.49	346.1	1.14	.17	1484.
50	8.74	32.05	50	24.88	309.0	1.79	.43	1483.
75	8.58	32.28	75	25.08	290.3	2.54	.91	1483.
100	8.06	32.69	99	25.48	252.7	3.22	1.52	1482.

166



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 83-10- 96 DATE 13/ 5/83

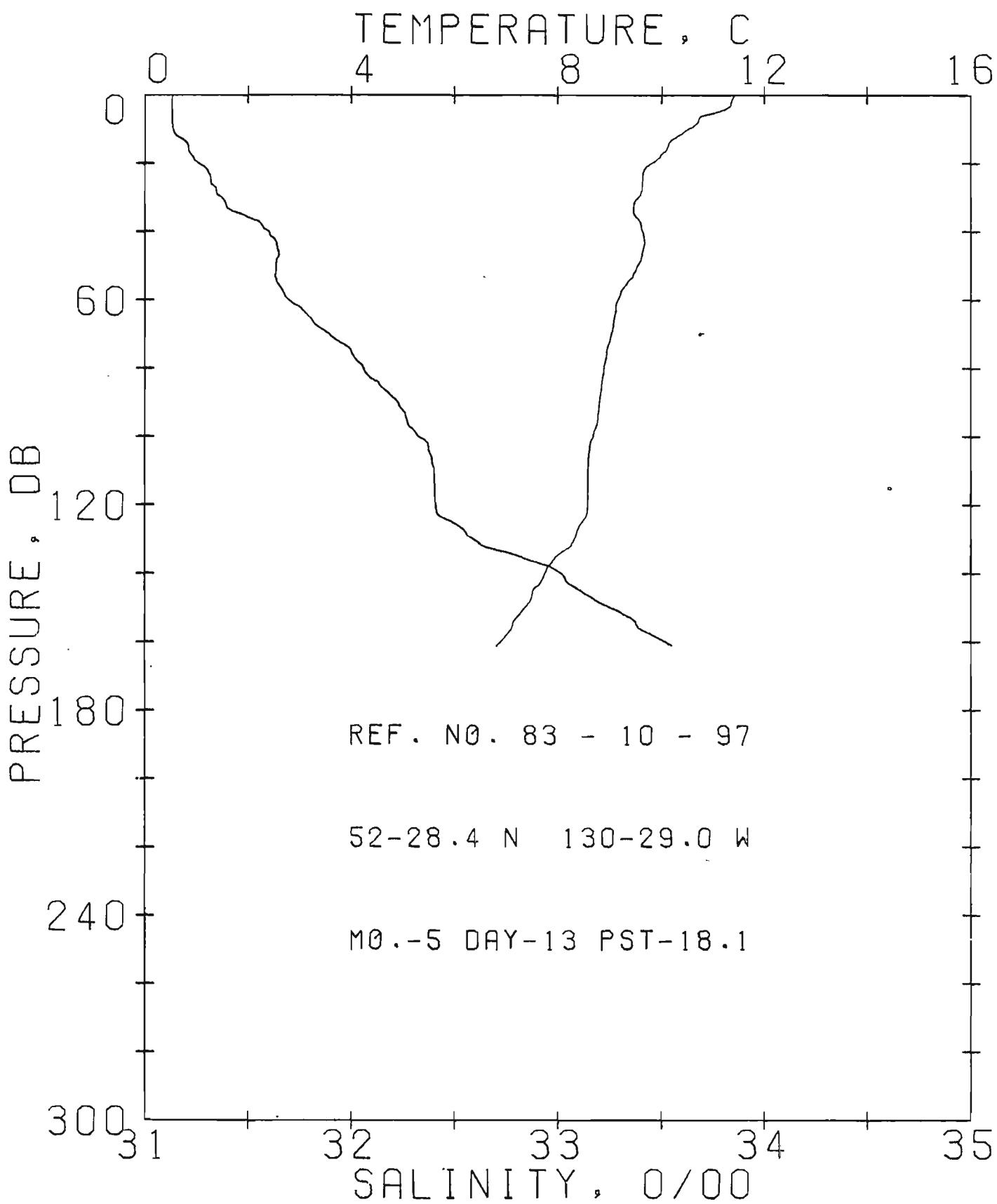
POSITION 52-26.9N, 130-38.0W 17.4 STATION M 9

RESULTS OF STP CAST 118 POINTS TAKEN FROM DIGITAL SYSTEM

GUILDLINE WAS USED,PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	11.32	31.40	0	23.95	397.2	.00	.00	1491.
10	10.76	31.50	10	24.12	380.5	.39	.02	1489.
20	10.63	31.53	20	24.17	376.1	.77	.08	1489.
30	10.52	31.56	30	24.21	372.8	1.14	.17	1488.
50	9.55	31.83	50	24.58	338.0	1.84	.46	1485.
75	8.83	32.19	75	24.97	300.6	2.65	.97	1484.
100	8.23	32.57	99	25.36	264.3	3.34	1.58	1482.

168



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 83-10- 97 DATE 13/ 5/83

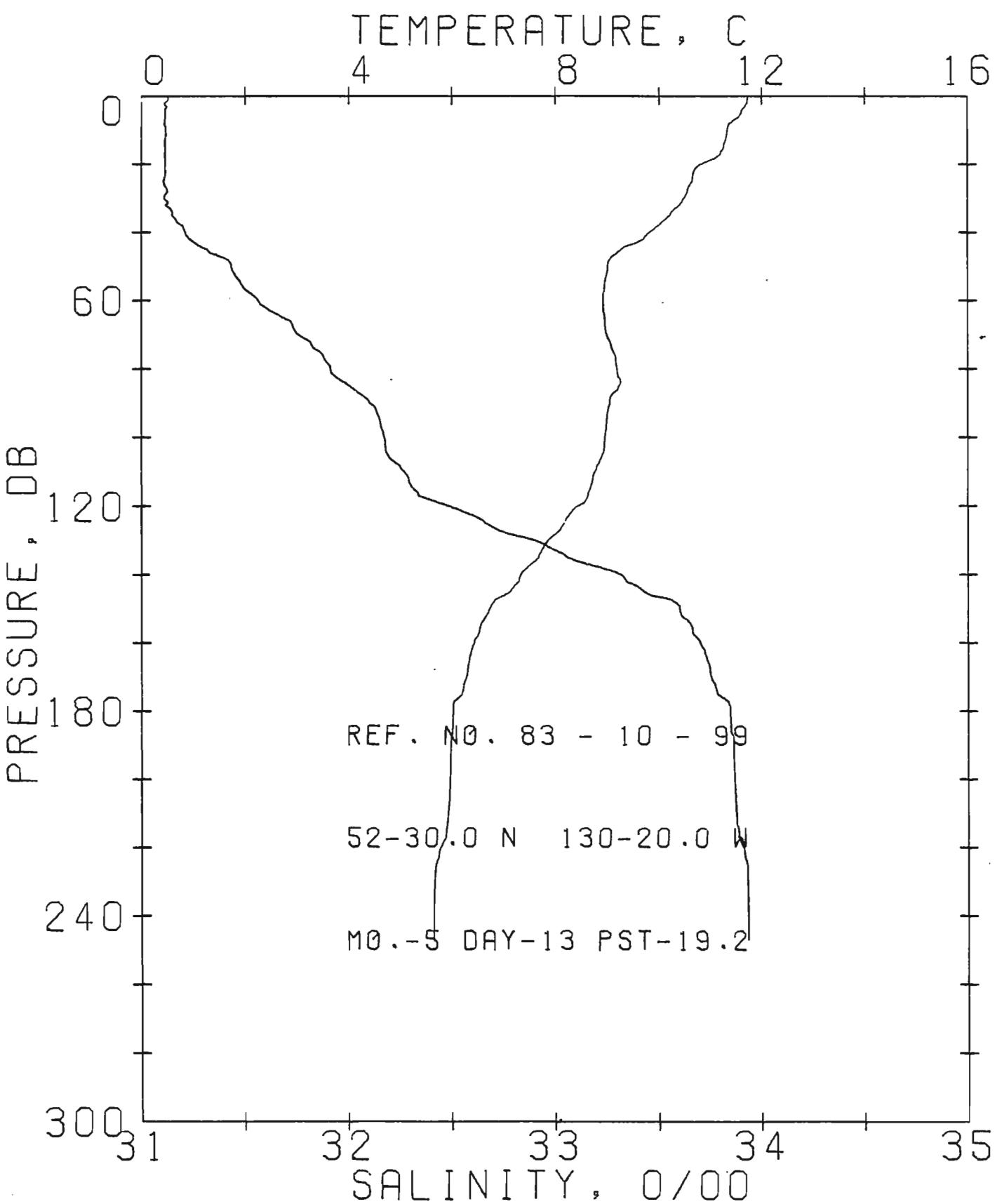
POSITION 52-28.4N, 130-29.0W 18.1 STATION M 8

RESULTS OF STP CAST 162 POINTS TAKEN FROM DIGITAL SYSTEM

GUILDLINE WAS USED,PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	11.41	31.14	0	23.72	418.3	.00	.00	1491.
10	10.49	31.14	10	23.88	403.2	.41	.02	1487.
20	9.78	31.26	20	24.10	382.8	.80	.08	1485.
30	9.54	31.38	30	24.23	370.7	1.18	.18	1485.
50	9.53	31.63	50	24.43	352.0	1.90	.47	1485.
75	8.94	32.00	75	24.81	316.2	2.74	1.00	1484.
100	8.68	32.33	99	25.10	288.7	3.49	1.67	1484.
125	8.46	32.49	124	25.26	273.7	4.20	2.48	1483.
150	7.36	33.26	149	26.02	202.0	4.79	3.31	1481.

170



OFFSHORE OCEANOGRAPHY GROUP

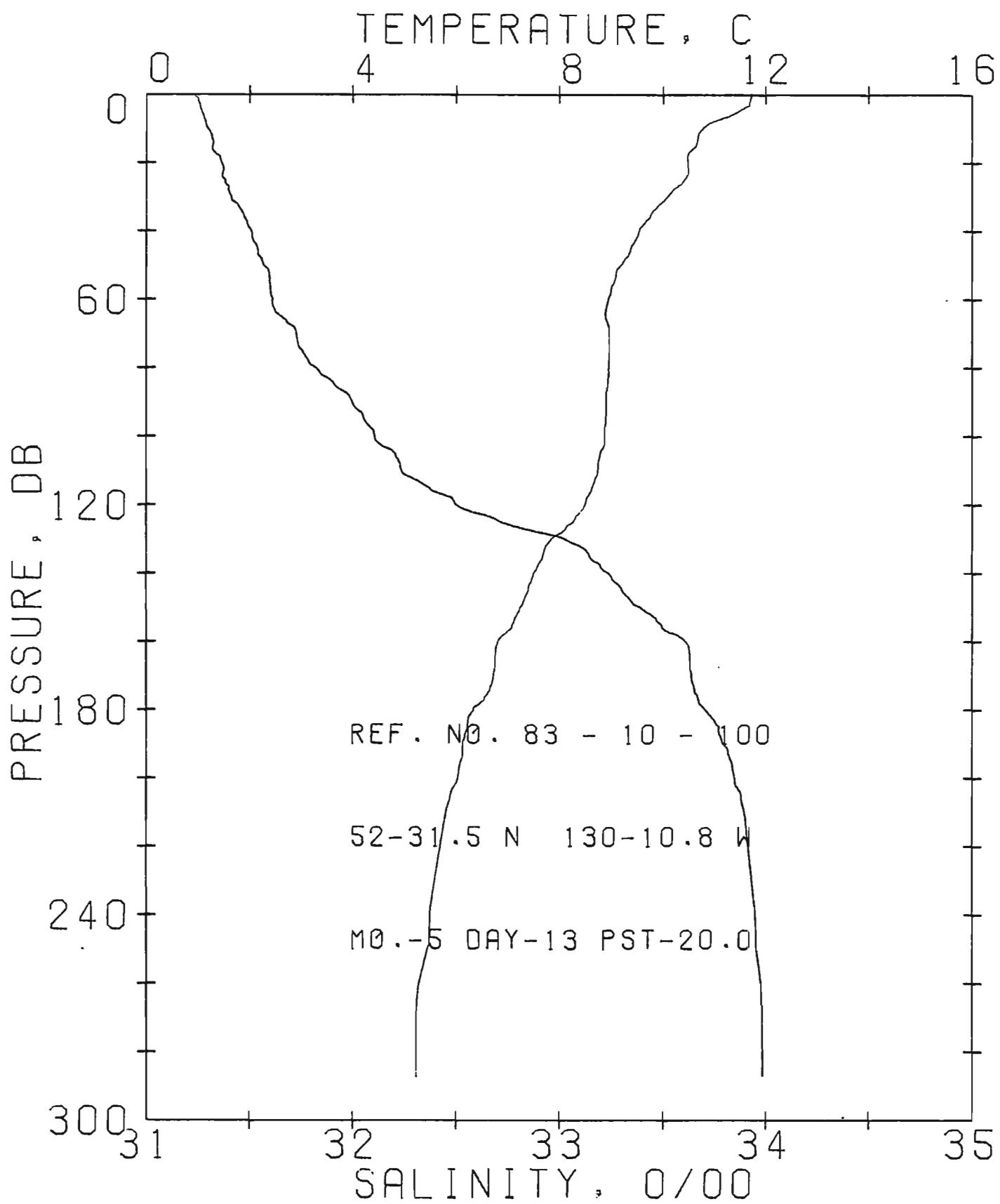
REFERENCE NO. 83-10- 99 DATE 13/ 5/83

POSITION 52-30.0N, 130-20.0W 19.2 STATION M 7

RESULTS OF STP CAST 248 POINTS TAKEN FROM DIGITAL SYSTEM

GUILDLINE WAS USED,PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	11.73	31.13	0	23.66	424.3	.00	.00	1492.
10	11.33	31.12	10	23.72	418.4	.42	.02	1490.
20	10.80	31.11	20	23.81	410.0	.84	.09	1489.
30	10.49	31.11	30	23.86	405.5	1.25	.19	1488.
50	9.02	31.44	50	24.35	358.9	2.02	.50	1483.
75	9.13	31.87	75	24.67	328.9	2.88	1.05	1484.
100	8.96	32.18	99	24.94	303.9	3.67	1.75	1485.
125	8.18	32.67	124	25.44	256.5	4.39	2.57	1483.
150	6.74	33.60	149	26.38	167.9	4.91	3.30	1479.
175	6.20	33.79	174	26.59	147.6	5.30	3.95	1477.
200	5.96	33.87	199	26.69	138.9	5.65	4.62	1477.
225	5.69	33.93	224	26.77	131.4	5.99	5.36	1476.
250	5.64	33.94	248	26.78	130.5	6.32	6.15	1476.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 83-10-100 DATE 13/ 5/83

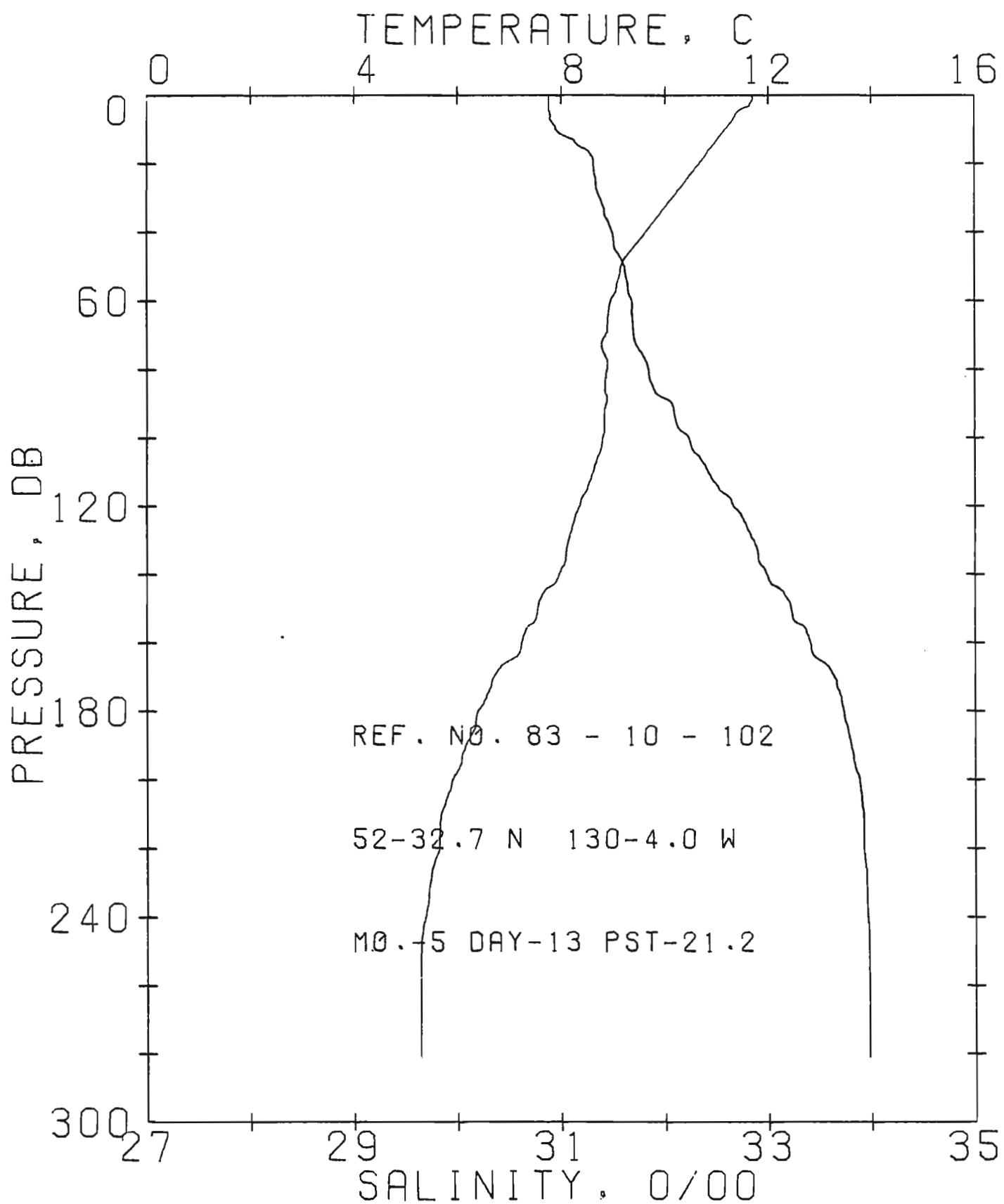
POSITION 52-31.5N, 130-10.8W 20.0 STATION M 6

RESULTS OF STP CAST 253 POINTS TAKEN FROM DIGITAL SYSTEM

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	11.73	31.23	0	23.74	416.6	.00	.00	1492.
10	10.76	31.30	10	23.97	395.4	.41	.02	1489.
20	10.48	31.37	20	24.06	386.1	.80	.08	1488.
30	10.08	31.41	30	24.17	376.5	1.18	.18	1487.
50	9.19	31.57	50	24.43	351.5	1.91	.47	1484.
75	8.97	31.76	75	24.61	334.7	2.76	1.02	1484.
100	8.88	32.11	99	24.90	307.7	3.56	1.73	1484.
125	8.27	32.72	124	25.47	254.0	4.28	2.55	1483.
150	7.25	33.39	149	26.14	190.2	4.81	3.29	1480.
175	6.63	33.66	174	26.43	162.8	5.24	4.00	1479.
200	6.05	33.85	199	26.66	141.4	5.61	4.71	1477.
225	5.65	33.93	224	26.77	131.2	5.95	5.44	1476.
250	5.46	33.96	248	26.82	126.9	6.27	6.22	1476.

174



OFFSHORE OCEANOGRAPHY GROUP

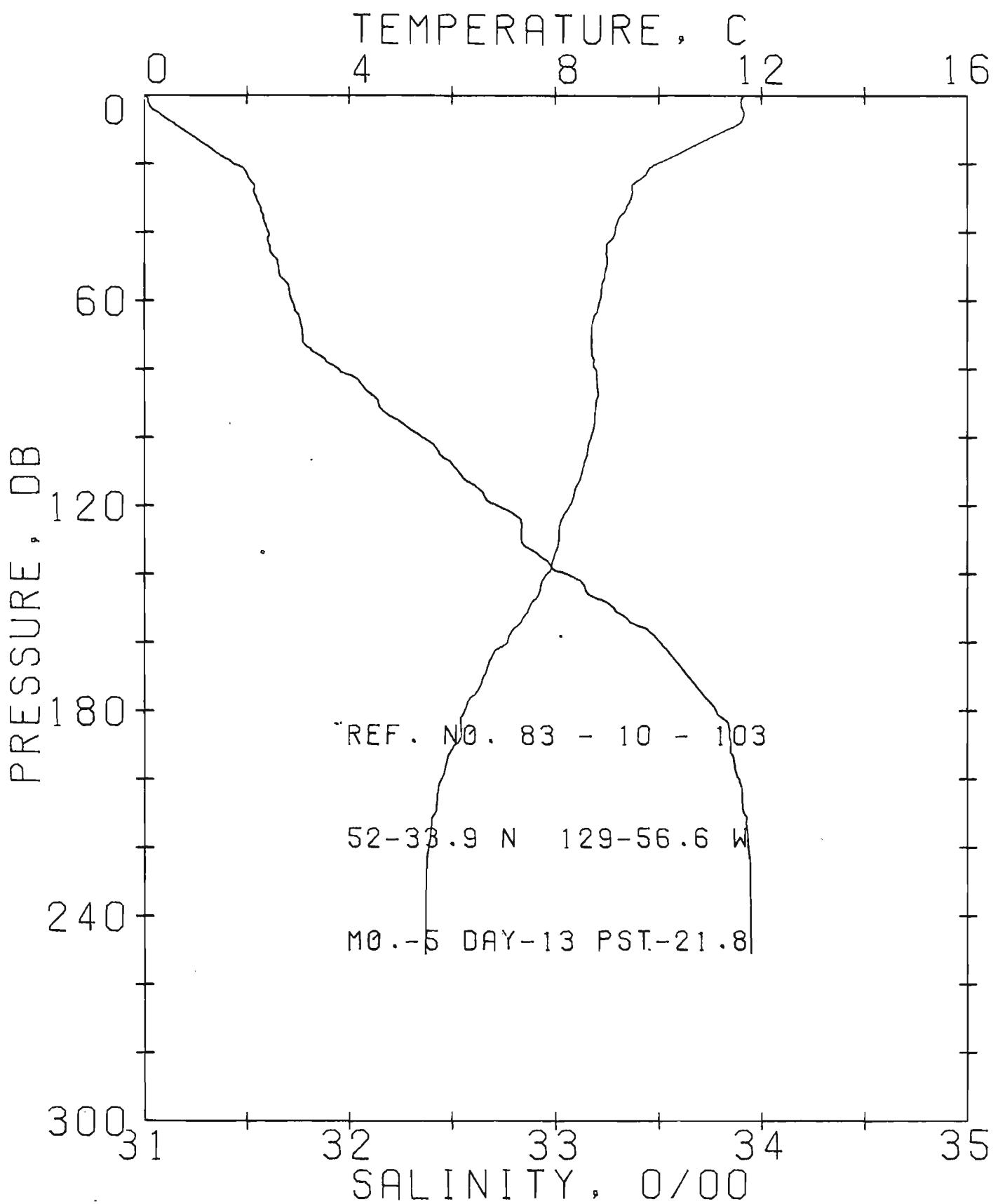
REFERENCE NO. 83-10-102 DATE 13/ 5/83

POSITION 52-32.7N, 130- 4.0W 21.2 STATION M 5

RESULTS OF STP CAST 282 POINTS TAKEN FROM DIGITAL SYSTEM

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	11.69	30.89	0	23.48	441.5	.00	.00	1491.
10	11.17	30.96	10	23.63	427.5	.44	.02	1490.
20	10.67	31.31	20	23.99	393.3	.84	.08	1488.
30	10.15	31.38	30	24.13	379.6	1.23	.18	1487.
50	9.15	31.62	50	24.47	347.5	1.96	.48	1484.
75	8.81	31.78	75	24.65	331.1	2.81	1.02	1483.
100	8.80	32.24	99	25.01	297.3	3.60	1.72	1484.
125	8.23	32.78	124	25.52	249.2	4.29	2.51	1483.
150	7.55	33.22	149	25.97	207.1	4.87	3.32	1481.
175	6.57	33.70	174	26.47	158.9	5.32	4.07	1479.
200	5.89	33.89	199	26.71	136.7	5.69	4.78	1476.
225	5.52	33.94	224	26.80	128.3	6.03	5.49	1475.
250	5.28	33.97	248	26.85	123.5	6.34	6.25	1475.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 83-10-103 DATE 13/ 5/83

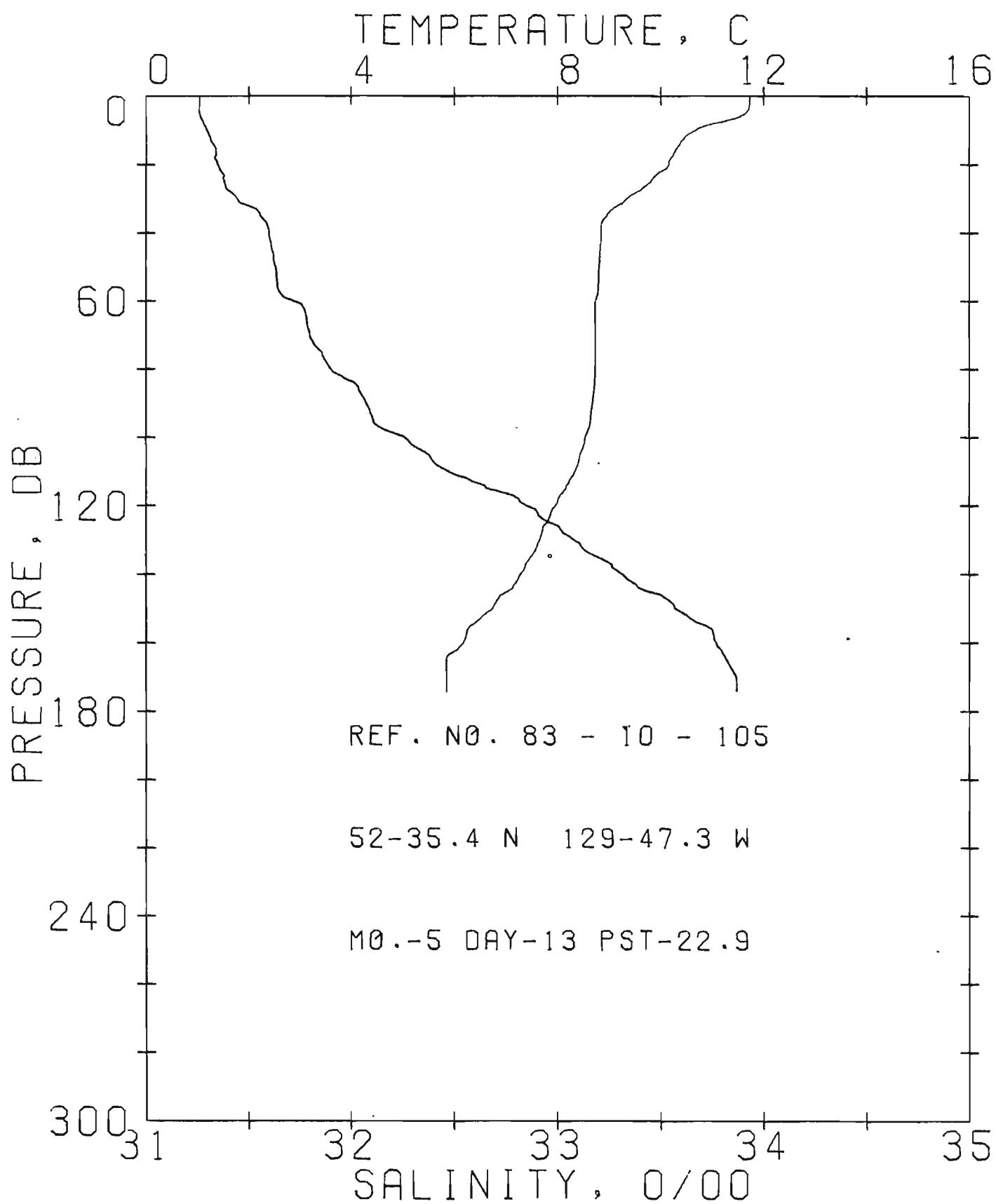
POSITION 52-33.9N, 129-56.6W 21.8 STATION M 4

RESULTS OF STP CAST 252 POINTS TAKEN FROM DIGITAL SYSTEM

GUIDELINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	11.65	31.01	0	23.58	431.9	.00	.00	1491.
10	11.32	31.19	10	23.78	412.7	.43	.02	1490.
20	9.96	31.44	20	24.21	372.6	.82	.08	1486.
30	9.47	31.55	30	24.37	356.9	1.18	.17	1485.
50	8.99	31.66	50	24.53	342.2	1.88	.46	1483.
75	8.69	31.83	75	24.71	325.4	2.71	.99	1483.
100	8.69	32.36	99	25.12	286.5	3.48	1.67	1484.
125	8.10	32.84	124	25.59	242.9	4.14	2.43	1483.
150	7.49	33.28	149	26.02	201.6	4.71	3.22	1481.
175	6.46	33.71	174	26.50	156.4	5.15	3.95	1478.
200	5.80	33.89	199	26.73	135.2	5.51	4.64	1476.
225	5.51	33.94	224	26.80	128.1	5.84	5.34	1475.
250	5.48	33.95	248	26.81	127.7	6.16	6.12	1476.

178



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 83-10-105

DATE 13/ 5/83

POSITION 52-35.4N, 129-47.3W

22.9

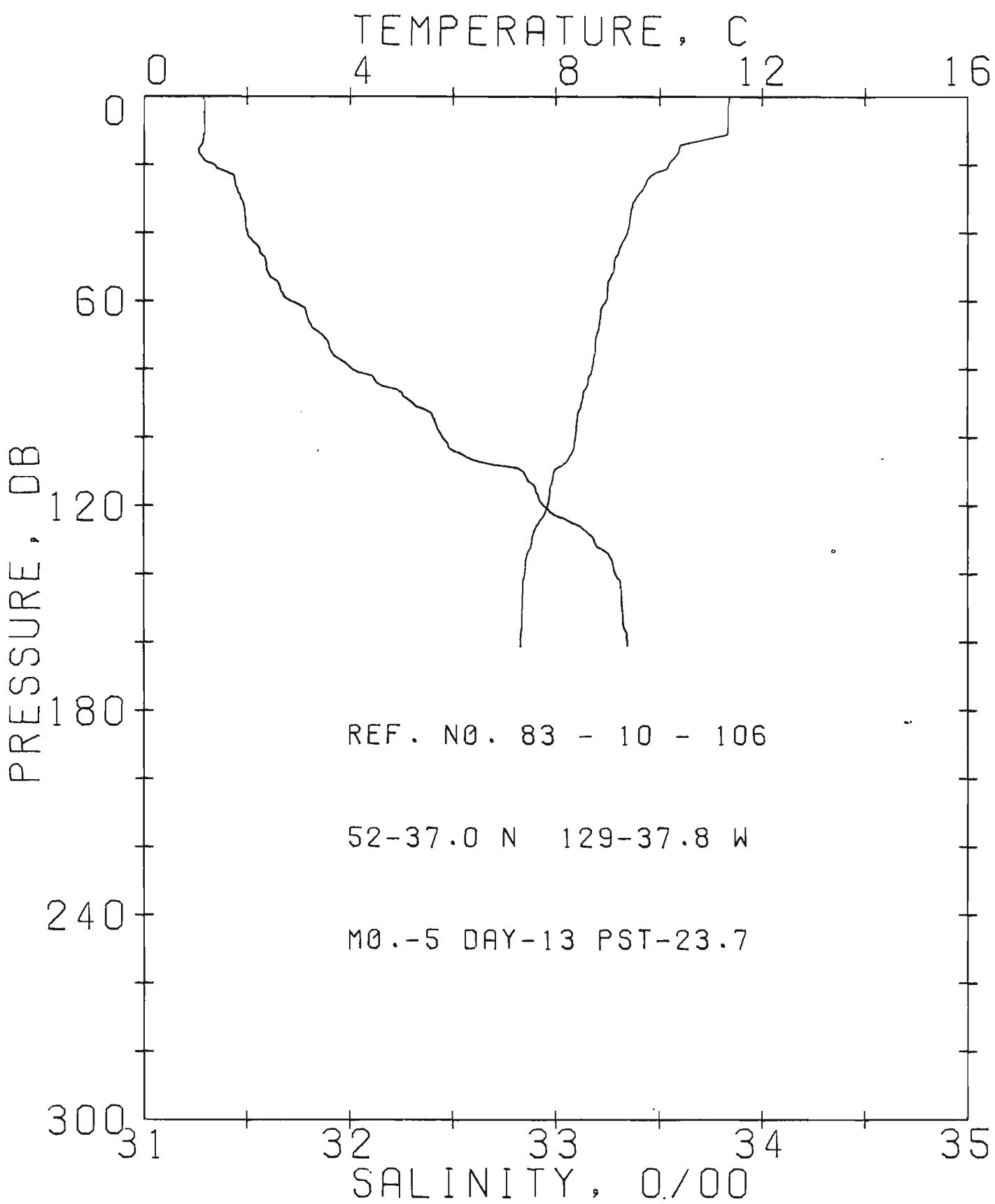
STATION M 3

RESULTS OF STP CAST 175 POINTS TAKEN FROM DIGITAL SYSTEM

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	11.74	31.26	0	23.76	414.5	.00	.00	1492.
10	10.67	31.30	10	23.98	394.0	.41	.02	1488.
20	10.16	31.35	20	24.11	382.1	.80	.08	1487.
30	9.34	31.45	30	24.31	362.5	1.17	.17	1484.
50	8.80	31.63	50	24.54	341.2	1.86	.46	1482.
75	8.73	31.86	75	24.73	323.7	2.69	.99	1483.
100	8.54	32.26	99	25.07	291.3	3.47	1.68	1483.
125	7.79	32.96	124	25.73	229.1	4.12	2.42	1481.
150	6.75	33.57	149	26.35	170.5	4.63	3.12	1479.
175	5.85	33.87	174	26.70	137.1	5.01	3.76	1476.

180



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 83-10-106

DATE 13/ 5/83

POSITION 52-37.0N, 129-37.8W

23.7

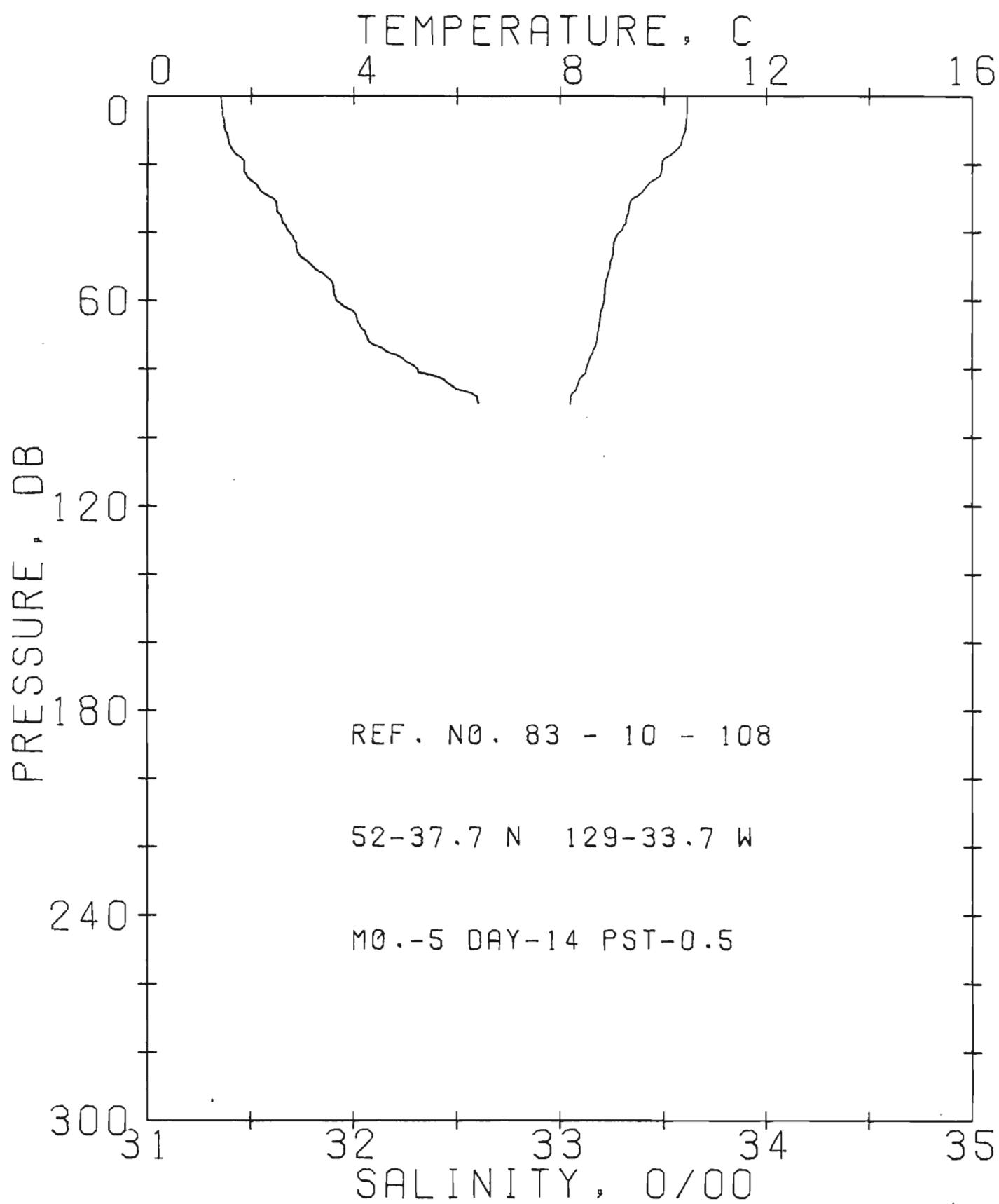
STATION M 2

RESULTS OF STP CAST 162 POINTS TAKEN FROM DIGITAL SYSTEM

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	11.37	31.29	0	23.85	406.1	.00	.00	1491.
10	11.34	31.30	10	23.86	405.3	.41	.02	1491.
20	10.19	31.35	20	24.10	382.9	.80	.08	1487.
30	9.54	31.47	30	24.30	363.7	1.17	.17	1485.
50	9.13	31.60	50	24.46	348.7	1.88	.47	1484.
75	8.76	31.92	75	24.77	319.9	2.72	.99	1483.
100	8.38	32.45	99	25.24	275.2	3.45	1.65	1483.
125	7.67	33.08	124	25.84	219.0	4.07	2.35	1481.
150	7.35	33.32	149	26.07	196.9	4.57	3.06	1481.

182



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OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 83-10-108

DATE 14/ 5/83

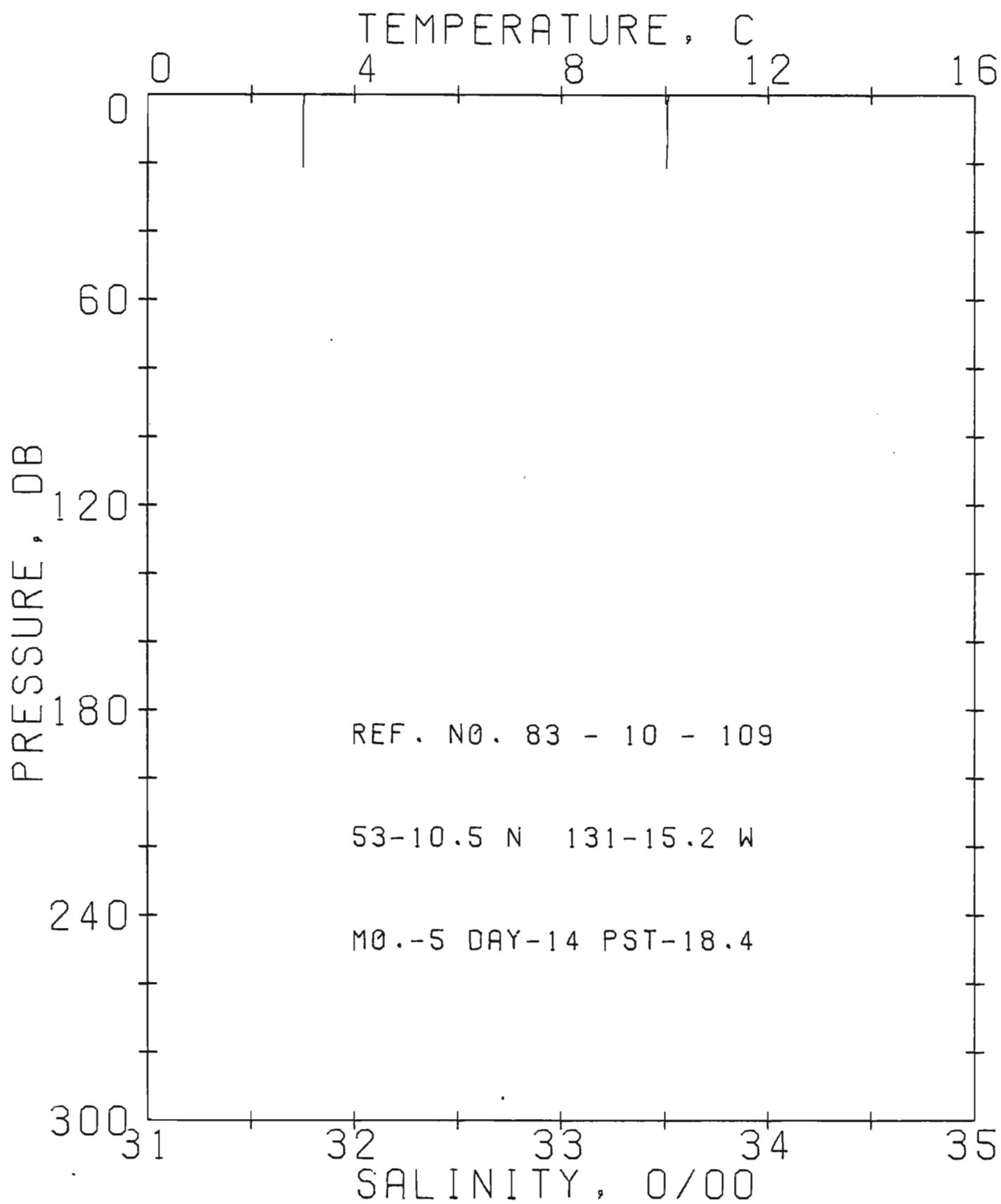
POSITION 52-37.7N, 129-33.7W .5 STATION M 1

RESULTS OF STP CAST 91 POINTS TAKEN FROM DIGITAL SYSTEM

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	10.44	31.35	0	24.06	386.1	.00	.00	1487.
10	10.42	31.38	10	24.08	384.1	.39	.02	1487.
20	9.97	31.47	20	24.23	370.3	.76	.08	1486.
30	9.38	31.61	30	24.43	351.0	1.13	.17	1484.
50	8.96	31.80	50	24.65	330.8	1.81	.45	1483.
75	8.64	32.16	75	24.98	299.8	2.60	.95	1483.

184



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 83-10-109 DATE 14/ 5/83

POSITION 53-10.5N, 131-15.2W 18.4 STATION W13

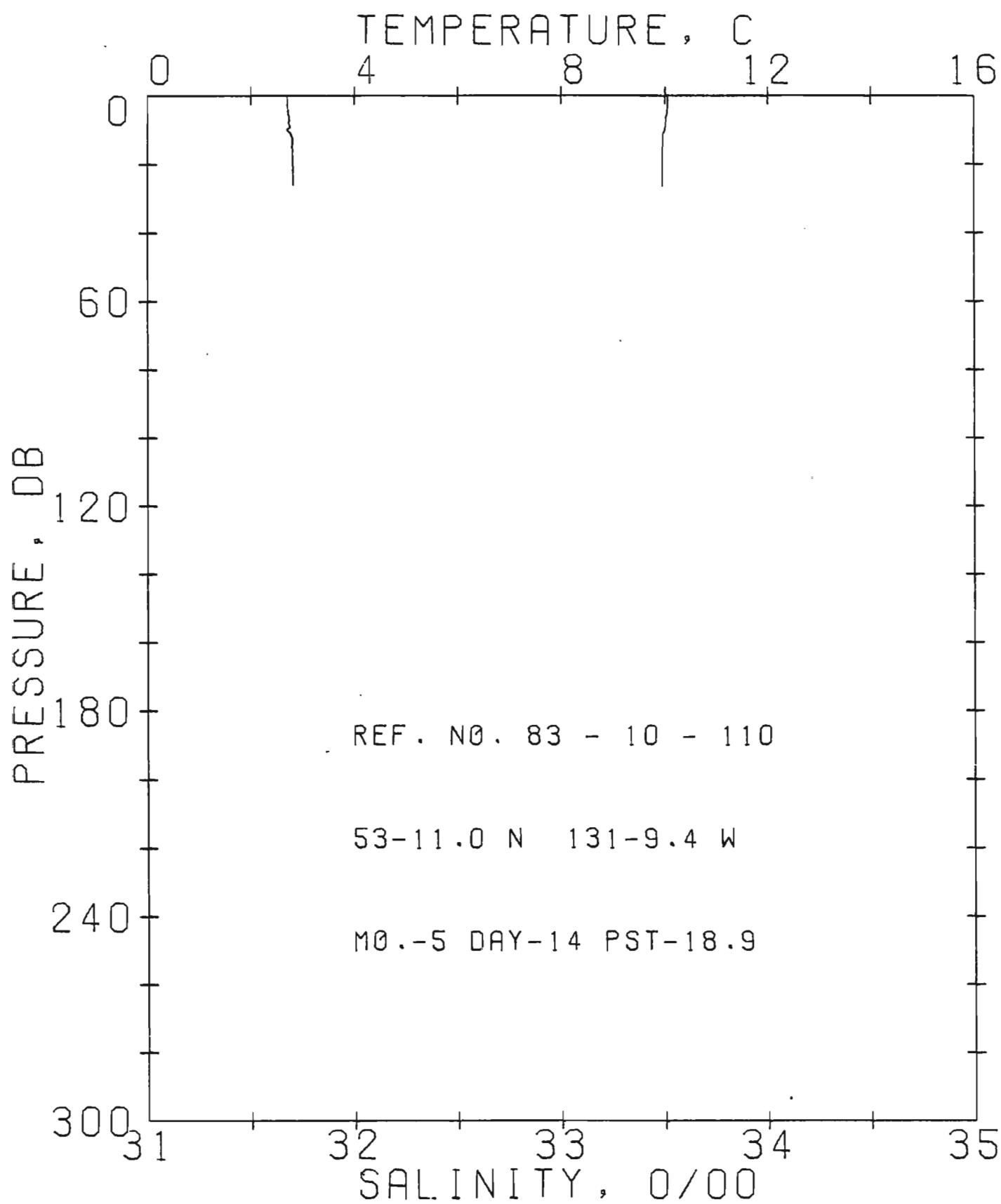
RESULTS OF STP CAST 22 POINTS TAKEN FROM DIGITAL SYSTEM

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	10.06	31.76	0	24.44	350.1	.00	.00	1486.
10	10.04	31.75	10	24.44	350.3	.35	.02	1487.
20	10.03	31.75	20	24.44	350.3	.70	.07	1487.

PRES	DEPTH	TEMP	SAL	PRES	DEPTH	TEMP	SAL
0.		10.06	31.76	11.		10.05	31.75
1.		10.05	31.76	12.		10.05	31.75
2.		10.04	31.76	13.		10.05	31.75
3.		10.04	31.75	14.		10.05	31.75
4.		10.03	31.75	15.		10.03	31.76
5.		10.03	31.75	16.		10.03	31.75
6.		10.03	31.75	17.		10.04	31.76
7.		10.03	31.75	18.		10.03	31.75
8.		10.03	31.75	19.		10.03	31.75
9.		10.03	31.75	20.		10.03	31.75
10.		10.04	31.75	21.		10.03	31.75

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OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 83-10-110 DATE 14/ 5/83

POSITION 53-11.0N, 131- 9.4W 18.9 STATION W12

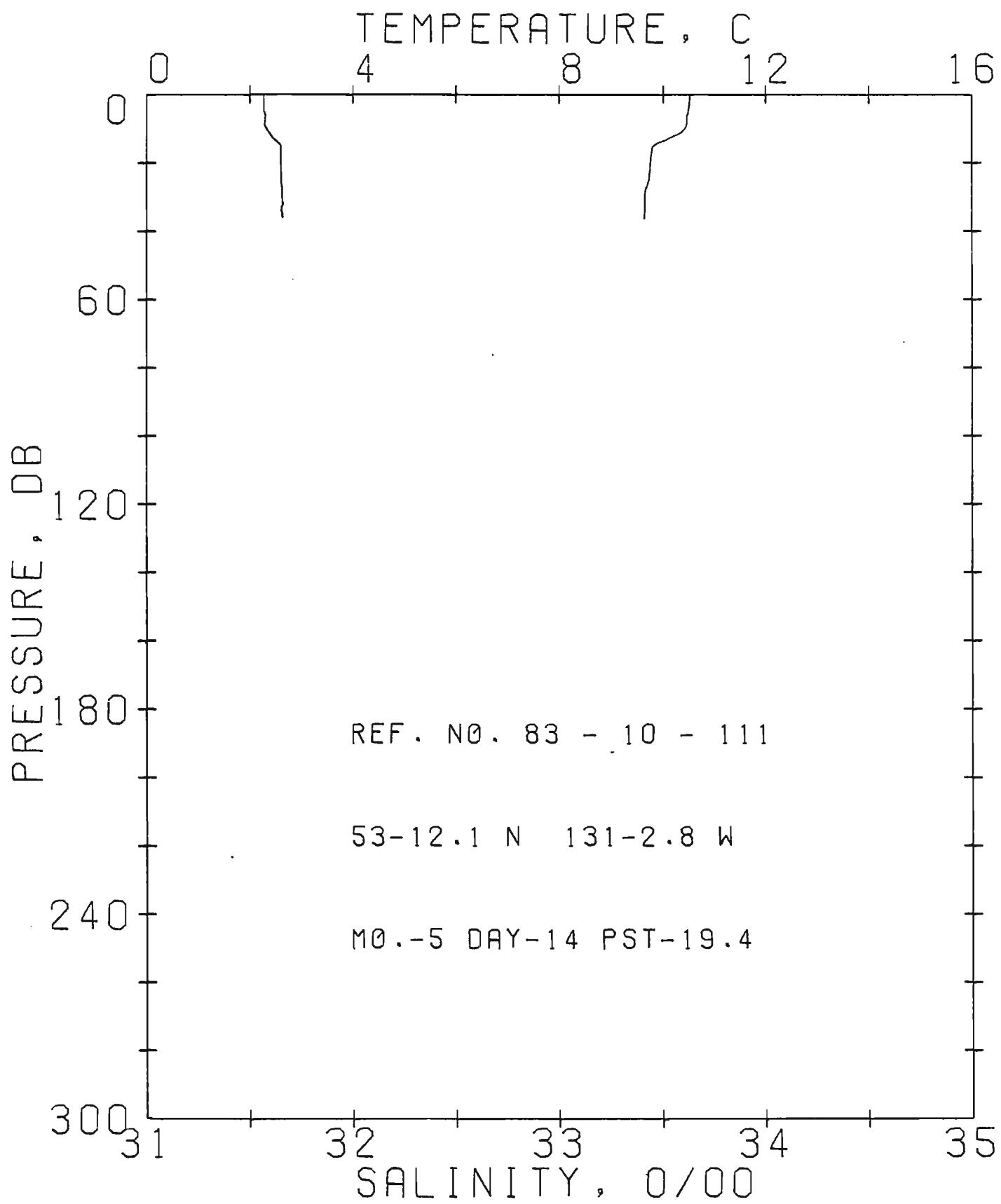
RESULTS OF STP CAST 27 POINTS TAKEN FROM DIGITAL SYSTEM

GUILDLINE WAS USED,PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	10.06	31.68	0	24.38	356.0	.00	.00	1486.
10	10.00	31.67	10	24.38	355.6	.36	.02	1486.
20	9.96	31.70	20	24.41	352.9	.71	.07	1486.

PRES	DEPTH	TEMP	SAL	PRES	DEPTH	TEMP	SAL
0.		10.06	31.68	14.		9.96	31.70
1.		10.06	31.68	15.		9.96	31.70
2.		10.05	31.68	16.		9.95	31.71
3.		10.06	31.68	17.		9.96	31.70
4.		10.05	31.68	18.		9.95	31.70
5.		10.05	31.68	19.		9.96	31.70
6.		10.02	31.69	20.		9.96	31.70
7.		10.02	31.69	21.		9.95	31.71
8.		10.02	31.68	22.		9.95	31.71
9.		10.01	31.69	23.		9.95	31.70
10.		10.00	31.67	24.		9.95	31.71
11.		9.97	31.70	25.		9.95	31.71
12.		9.96	31.70	26.		9.95	31.70
13.		9.95	31.71				

188

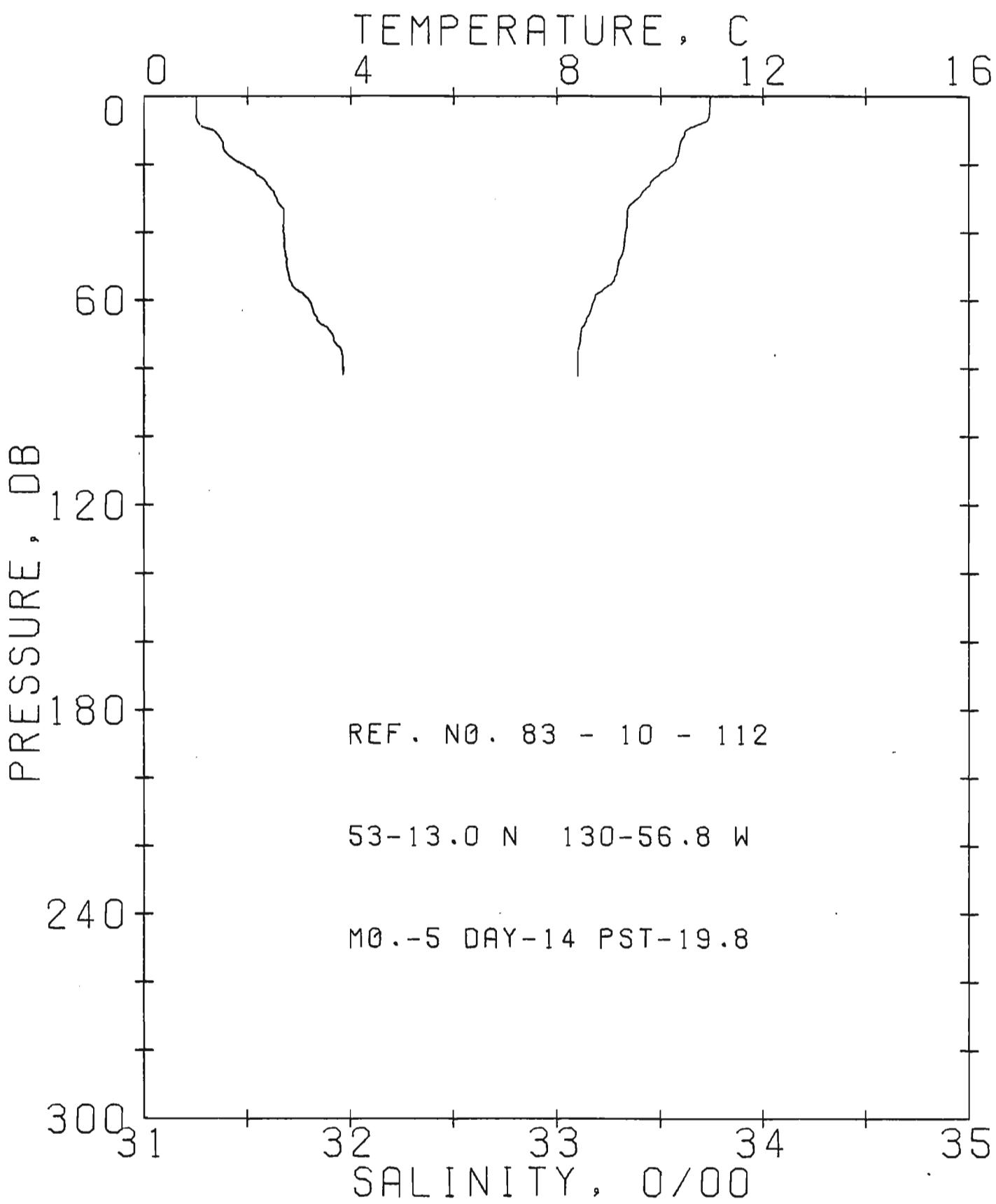


OFFSHORE OCEANOGRAPHY GROUP
 REFERENCE NO. 83-10-111 DATE 14/ 5/83
 POSITION 53-12.1N, 131- 2.8W 19.4 STATION W11
 RESULTS OF STP CAST 37 POINTS TAKEN FROM DIGITAL SYSTEM
 GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	10.53	31.57	0	24.21	371.6	.00	.00	1488.
10	10.42	31.58	10	24.24	368.9	.37	.02	1488.
20	9.76	31.65	20	24.41	353.6	.73	.07	1486.
30	9.65	31.66	30	24.43	351.7	1.08	.16	1485.

PRES	DEPTH	TEMP	SAL	PRES	DEPTH	TEMP	SAL
0.		10.53	31.57	19.		9.76	31.65
1.		10.53	31.57	20.		9.76	31.65
2.		10.52	31.57	21.		9.75	31.65
3.		10.51	31.57	22.		9.75	31.65
4.		10.50	31.57	23.		9.74	31.65
5.		10.49	31.57	24.		9.74	31.65
6.		10.46	31.58	25.		9.73	31.65
7.		10.46	31.58	26.		9.71	31.66
8.		10.47	31.57	27.		9.68	31.66
9.		10.46	31.57	28.		9.66	31.66
10.		10.42	31.58	29.		9.65	31.66
11.		10.35	31.60	30.		9.65	31.66
12.		10.20	31.61	31.		9.64	31.66
13.		10.08	31.62	32.		9.65	31.66
14.		9.90	31.64	33.		9.65	31.65
15.		9.80	31.66	34.		9.65	31.65
16.		9.79	31.65	35.		9.64	31.66
17.		9.78	31.65	36.		9.64	31.66
18.		9.77	31.65				

190



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 83-10-112 DATE 14/ 5/83

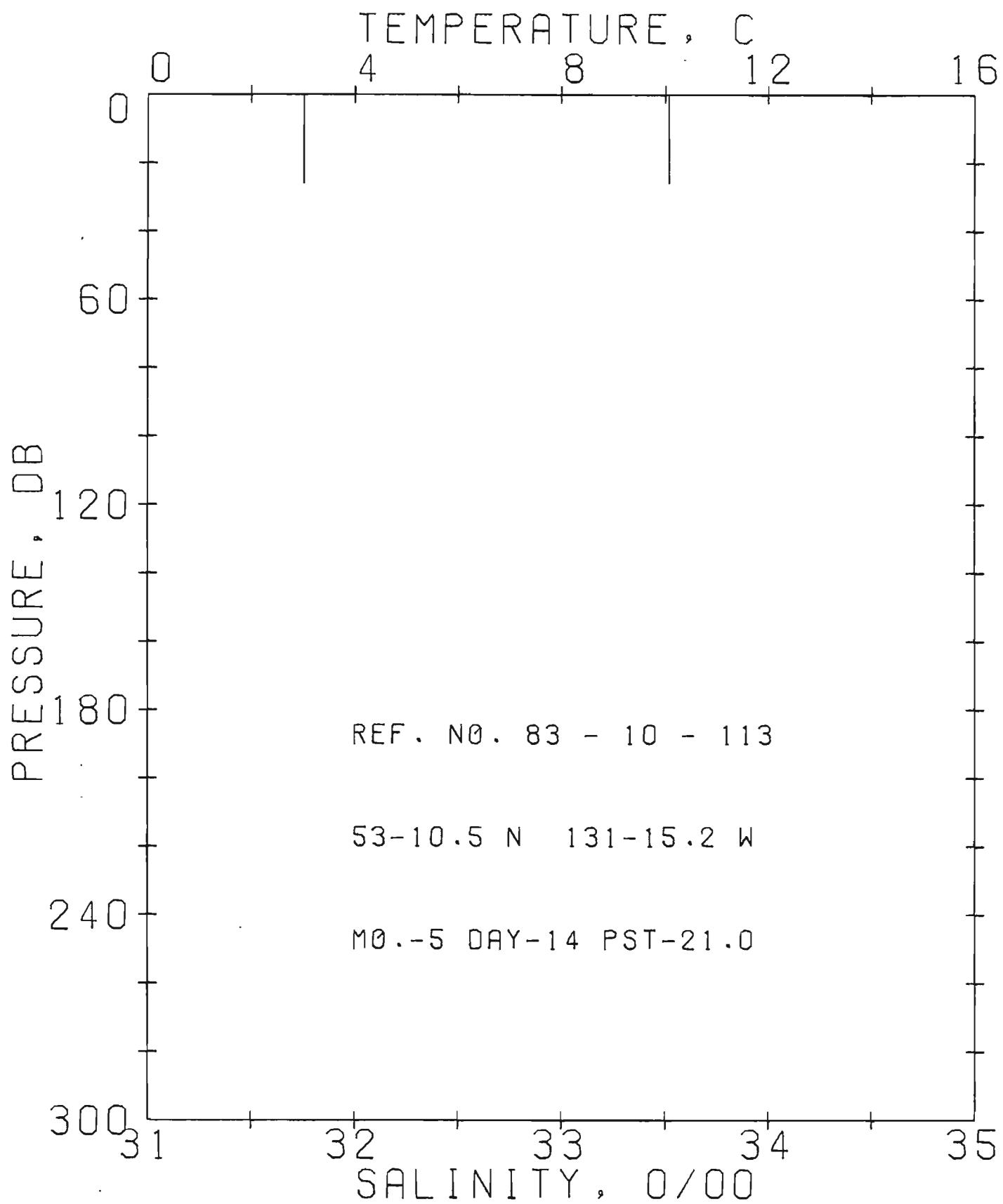
POSITION 53-13.0N, 130-56.8W 19.8 STATION W10

RESULTS OF STP CAST 83 POINTS TAKEN FROM DIGITAL SYSTEM

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	10.96	31.25	0	23.89	402.0	.00	.00	1489.
10	10.47	31.34	10	24.05	387.6	.40	.02	1488.
20	10.25	31.48	20	24.19	373.8	.78	.08	1487.
30	9.55	31.65	30	24.44	350.9	1.14	.17	1485.
50	9.18	31.69	50	24.53	342.2	1.83	.45	1484.
75	8.41	31.96	75	24.86	311.4	2.65	.97	1482.

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OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 83-10-113

DATE 14/ 5/83

POSITION 53-10.5N, 131-15.2W 21.0 STATION W13

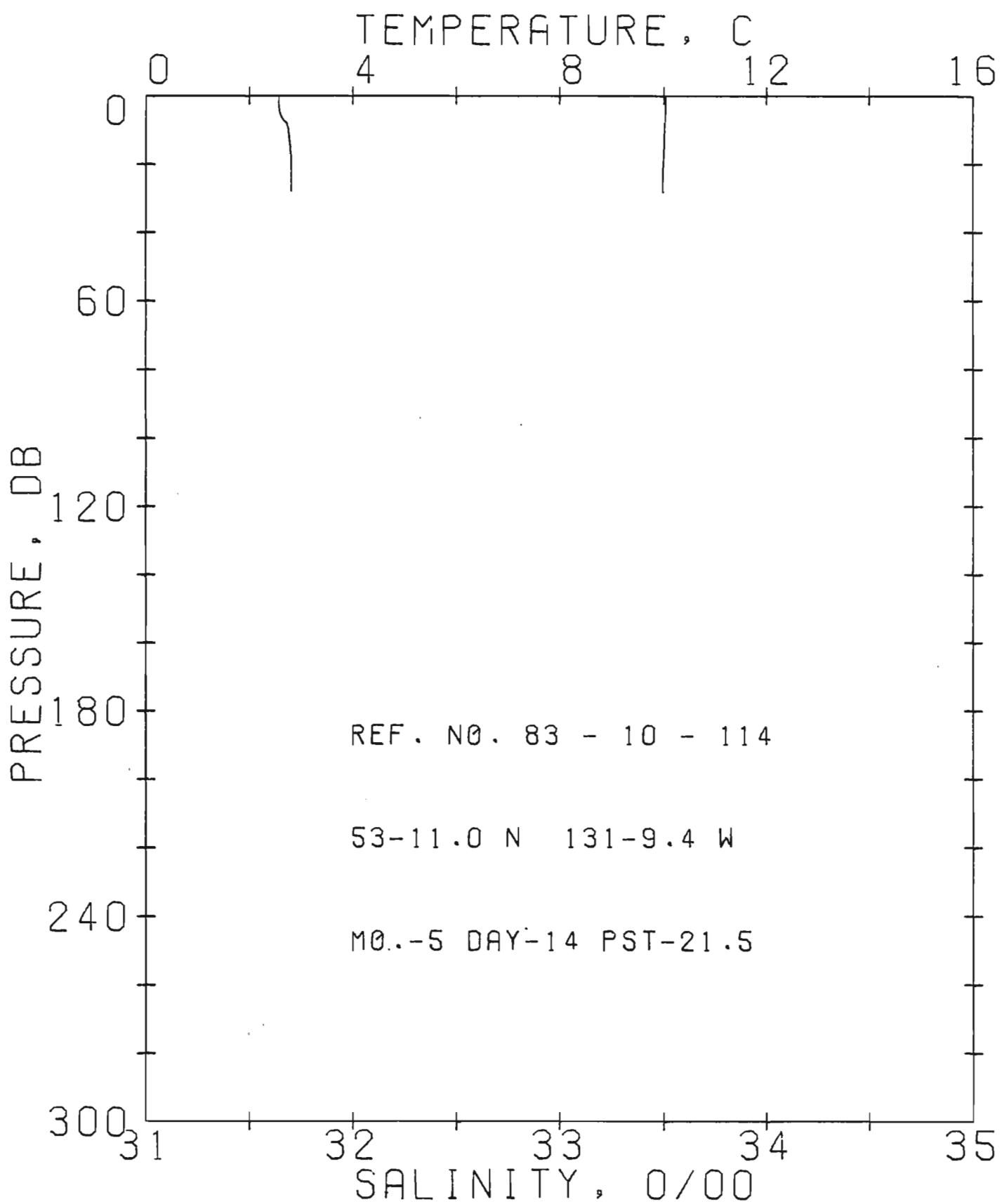
RESULTS OF STP CAST 27 POINTS TAKEN FROM DIGITAL SYSTEM

GUIDELINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	10.07	31.76	0	24.43	350.5	.00	.00	1486.
10	10.07	31.76	10	24.44	350.6	.35	.02	1487.
20	10.08	31.75	20	24.43	351.0	.70	.07	1487.

PRES	DEPTH	TEMP	SAL	PRES	DEPTH	TEMP	SAL
0.		10.07	31.76	14.		10.07	31.76
1.		10.07	31.76	15.		10.07	31.76
2.		10.07	31.76	16.		10.07	31.76
3.		10.06	31.76	17.		10.07	31.76
4.		10.07	31.75	18.		10.07	31.76
5.		10.07	31.76	19.		10.07	31.76
6.		10.07	31.76	20.		10.08	31.75
7.		10.07	31.76	21.		10.07	31.76
8.		10.07	31.76	22.		10.07	31.76
9.		10.07	31.76	23.		10.07	31.75
10.		10.07	31.76	24.		10.07	31.76
11.		10.07	31.76	25.		10.07	31.76
12.		10.07	31.75	26.		10.07	31.76
13.		10.07	31.76				

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OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 83-10-114 DATE 14/ 5/83

POSITION 53-11.0N, 131- 9.4W 21.5 STATION W12

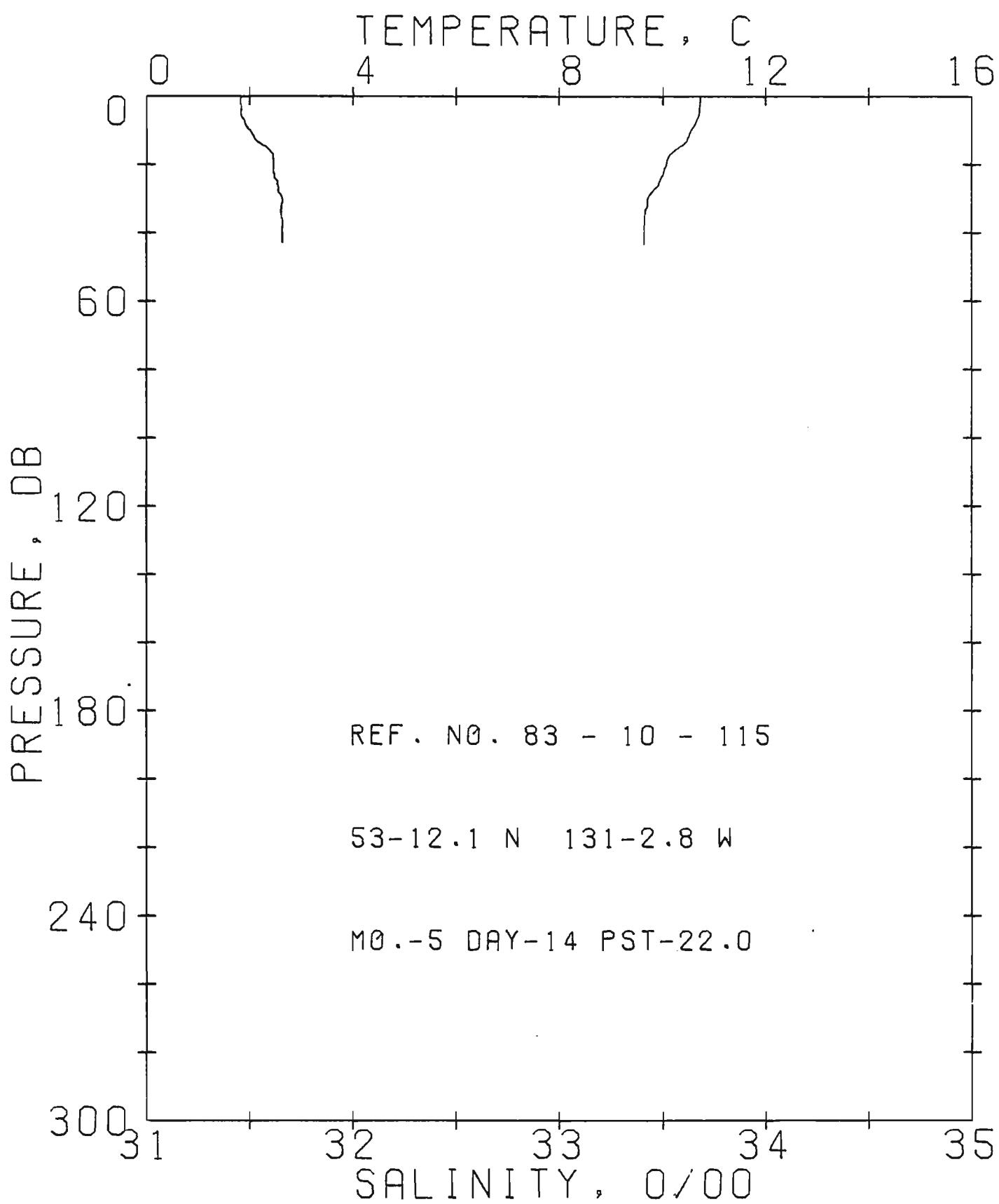
RESULTS OF STP CAST 29 POINTS TAKEN FROM DIGITAL SYSTEM

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	10.04	31.65	0	24.35	358.2	.00	.00	1486.
10	10.01	31.69	10	24.40	354.4	.36	.02	1486.
20	10.00	31.70	20	24.41	353.5	.71	.07	1486.

PRES	DEPTH	TEMP	SAL	PRES	DEPTH	TEMP	SAL
0.		10.04	31.65	15.		10.01	31.70
1.		10.05	31.64	16.		10.01	31.70
2.		10.04	31.64	17.		10.00	31.70
3.		10.04	31.65	18.		10.00	31.70
4.		10.04	31.65	19.		10.00	31.70
5.		10.04	31.65	20.		10.00	31.70
6.		10.04	31.66	21.		9.99	31.71
7.		10.03	31.67	22.		9.99	31.71
8.		10.02	31.68	23.		9.99	31.71
9.		10.02	31.69	24.		9.99	31.71
10.		10.01	31.69	25.		9.99	31.71
11.		10.01	31.69	26.		9.99	31.71
12.		10.01	31.70	27.		9.99	31.71
13.		10.01	31.70	28.		9.99	31.71
14.		10.01	31.70				

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OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 83-10-115 DATE 14/ 5/83

POSITION 53-12.1N, 131- 2.8W 22.0 STATION W11

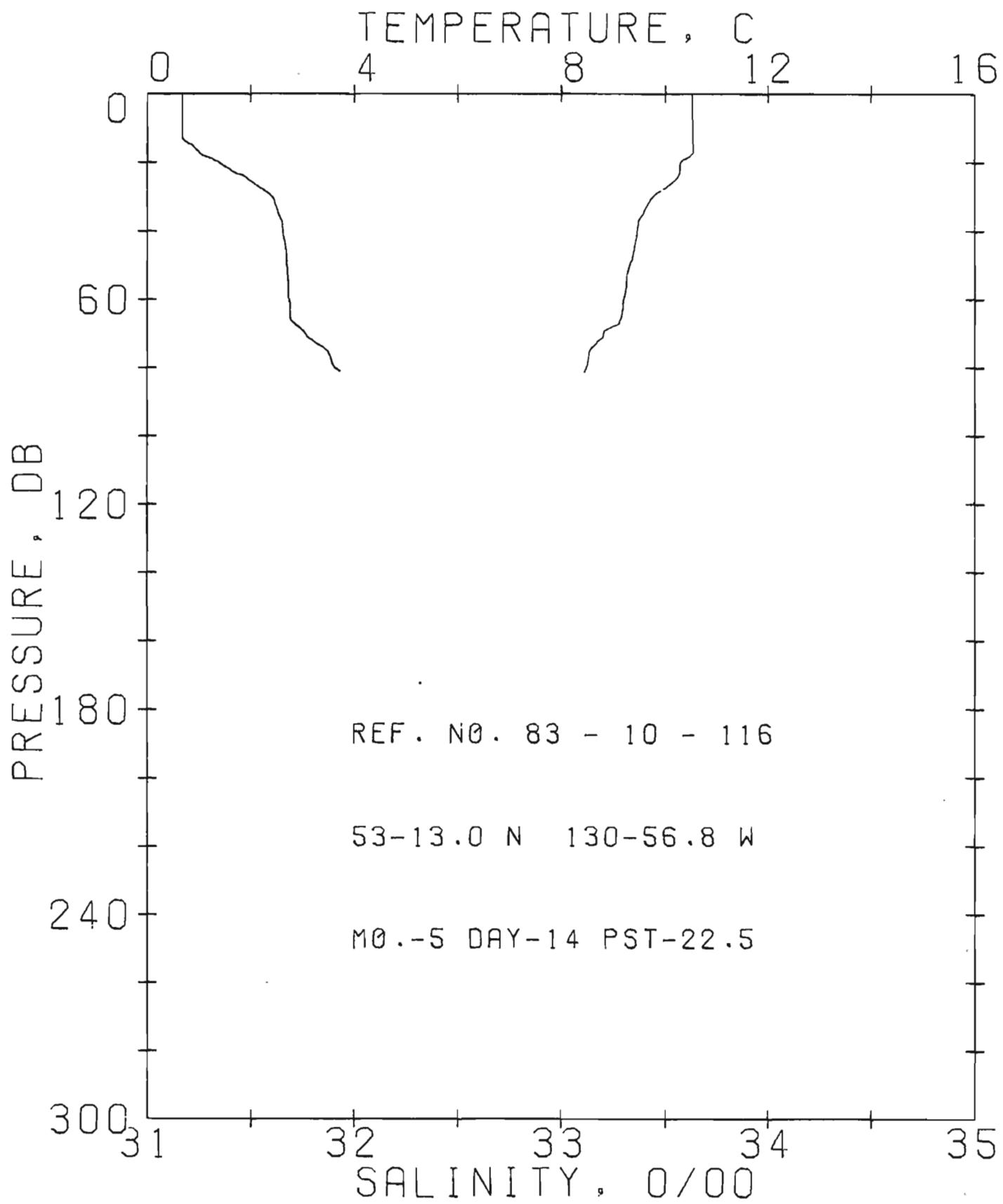
RESULTS OF STP CAST 44 POINTS TAKEN FROM DIGITAL SYSTEM

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	10.74	31.46	0	24.10	382.8	.00	.00	1489.
10	10.55	31.51	10	24.16	376.8	.38	.02	1488.
20	10.08	31.62	20	24.33	361.1	.75	.08	1487.
30	9.71	31.66	30	24.42	352.2	1.11	.17	1486.

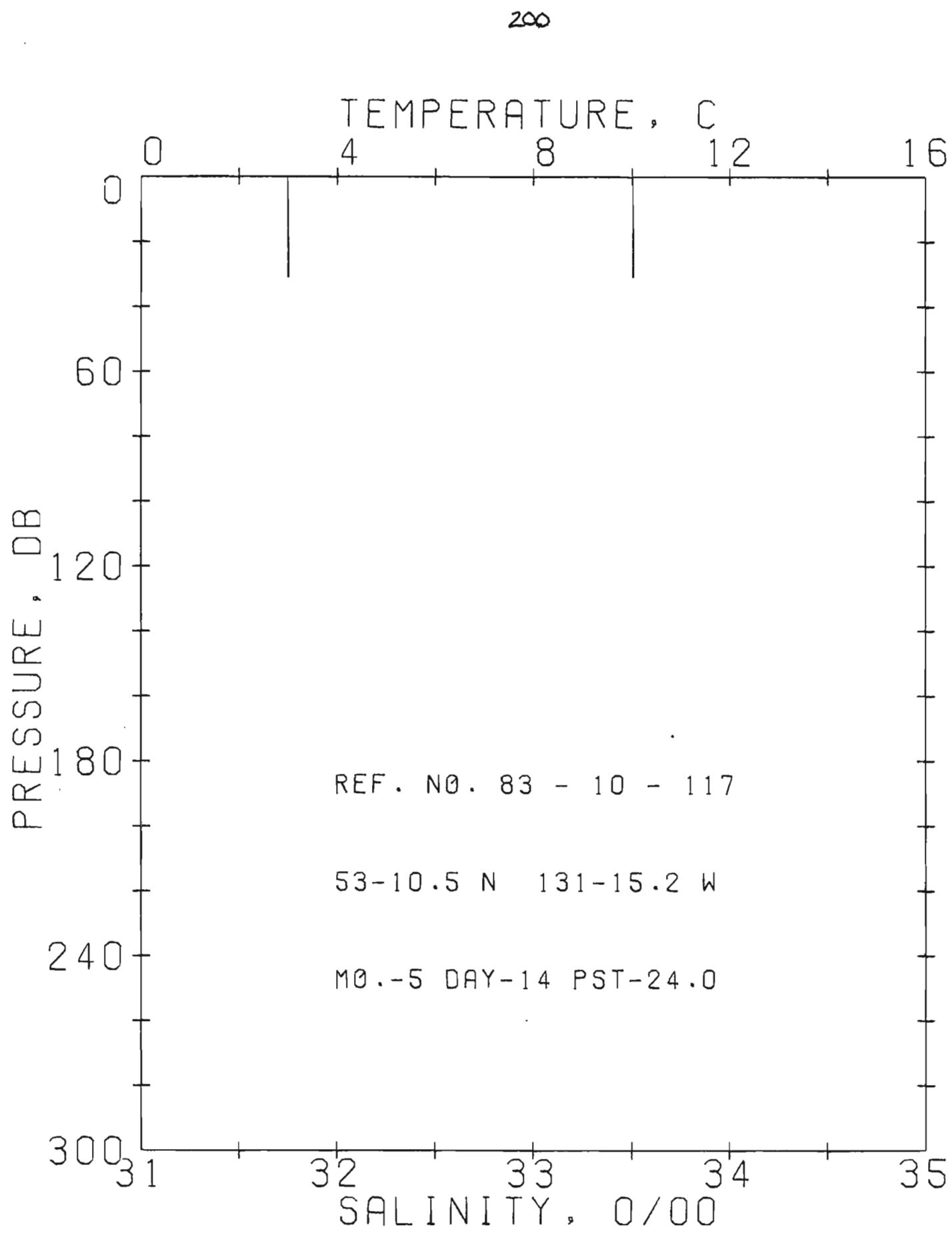
PRES	DEPTH	TEMP	SAL	PRES	DEPTH	TEMP	SAL
0.		10.74	31.46	22.		10.03	31.61
1.		10.74	31.45	23.		10.01	31.62
2.		10.73	31.46	24.		9.96	31.62
3.		10.72	31.46	25.		9.94	31.64
4.		10.71	31.46	26.		9.93	31.64
5.		10.71	31.46	27.		9.84	31.64
6.		10.69	31.46	28.		9.79	31.64
7.		10.66	31.48	29.		9.74	31.66
8.		10.64	31.48	30.		9.71	31.66
9.		10.59	31.49	31.		9.71	31.66
10.		10.55	31.51	32.		9.71	31.65
11.		10.53	31.51	33.		9.67	31.65
12.		10.49	31.52	34.		9.67	31.65
13.		10.47	31.53	35.		9.66	31.66
14.		10.41	31.56	36.		9.65	31.66
15.		10.30	31.59	37.		9.64	31.66
16.		10.22	31.60	38.		9.64	31.66
17.		10.15	31.62	39.		9.65	31.66
18.		10.11	31.62	40.		9.64	31.66
19.		10.08	31.62	41.		9.64	31.66
20.		10.08	31.62	42.		9.64	31.66
21.		10.04	31.61	43.		9.64	31.66

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OFFSHORE OCEANOGRAPHY GROUP
REFERENCE NO. 83-10-116 DATE 14/ 5/83
POSITION 53-13.0N, 130-56.8W 22.5 STATION W10
RESULTS OF STP CAST 82 POINTS TAKEN FROM DIGITAL SYSTEM
GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA	SVA	DELTA	POT.	SOUND
				T		D	EN	
0	10.52	31.17	0	23.90	401.0	.00	.00	1487.
10	10.52	31.17	10	23.90	401.4	.40	.02	1488.
20	10.29	31.35	20	24.08	384.2	.80	.08	1487.
30	9.76	31.61	30	24.37	357.1	1.17	.18	1486.
50	9.32	31.68	50	24.49	345.6	1.87	.46	1484.
75	8.55	31.87	75	24.77	320.0	2.72	1.00	1482.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 83-10-117 DATE 14/ 5/83

POSITION 53-10.5N, 131-15.2W 24.0 STATION W13

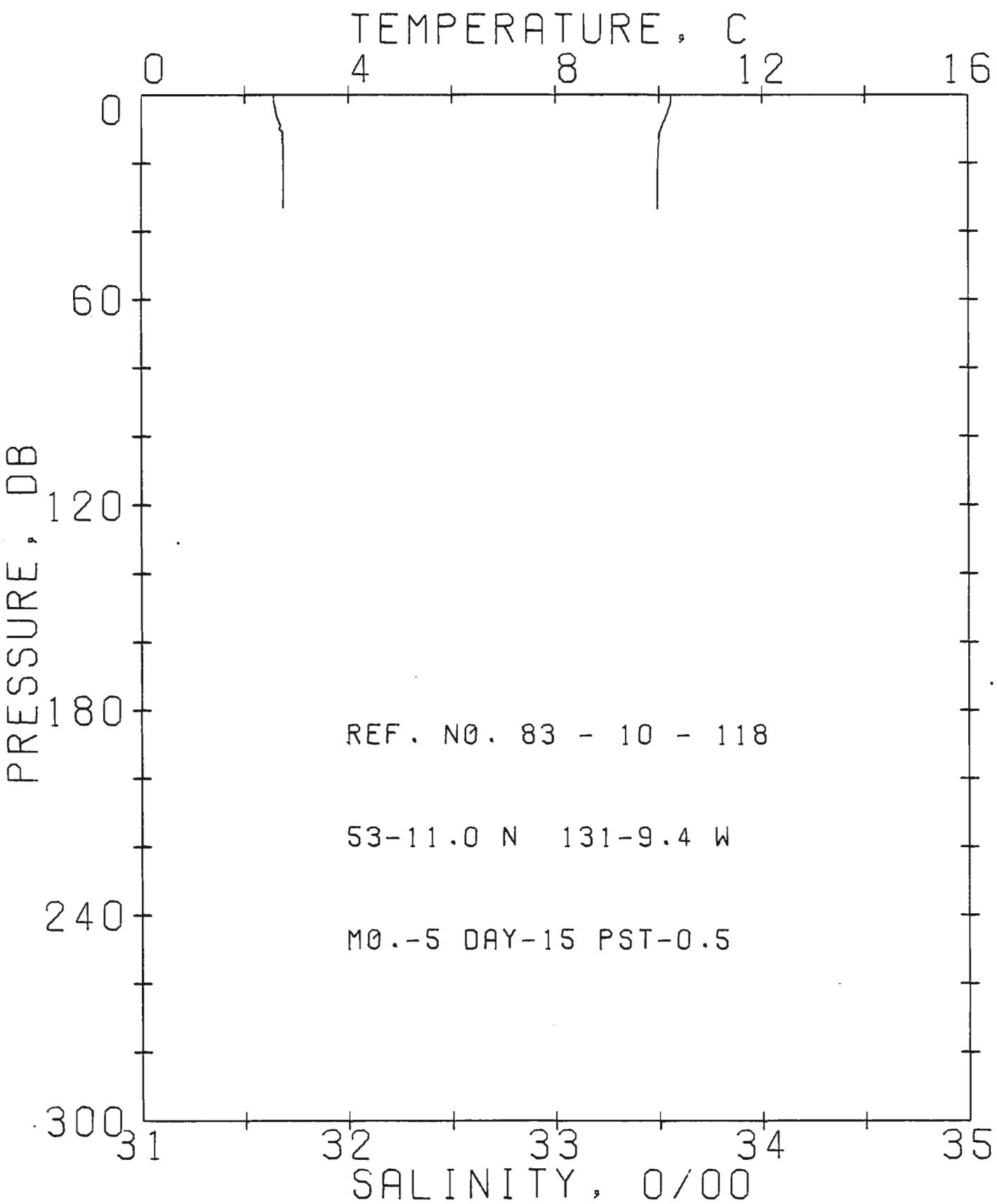
RESULTS OF STP CAST 32 POINTS TAKEN FROM DIGITAL SYSTEM

GUIDELINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	10.02	31.75	0	24.44	350.3	.00	.00	1486.
10	10.02	31.75	10	24.44	350.1	.35	.02	1486.
20	10.03	31.75	20	24.44	350.4	.70	.07	1487.
30	10.03	31.75	30	24.44	350.6	1.05	.16	1487.

PRES	DEPTH	TEMP	SAL	PRES	DEPTH	TEMP	SAL
0.		10.02	31.75	16.		10.02	31.75
1.		10.02	31.75	17.		10.02	31.75
2.		10.02	31.75	18.		10.03	31.75
3.		10.02	31.75	19.		10.03	31.75
4.		10.02	31.75	20.		10.03	31.75
5.		10.02	31.75	21.		10.03	31.75
6.		10.02	31.75	22.		10.03	31.75
7.		10.02	31.75	23.		10.03	31.75
8.		10.02	31.75	24.		10.03	31.75
9.		10.02	31.75	25.		10.03	31.75
10.		10.02	31.75	26.		10.03	31.75
11.		10.02	31.75	27.		10.03	31.75
12.		10.02	31.75	28.		10.03	31.75
13.		10.02	31.75	29.		10.03	31.75
14.		10.02	31.75	30.		10.03	31.75
15.		10.02	31.75	31.		10.03	31.75

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OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 83-10-118 DATE 15/ 5/83

POSITION 53-11.0N, 131- 9.4W .5 STATION W12

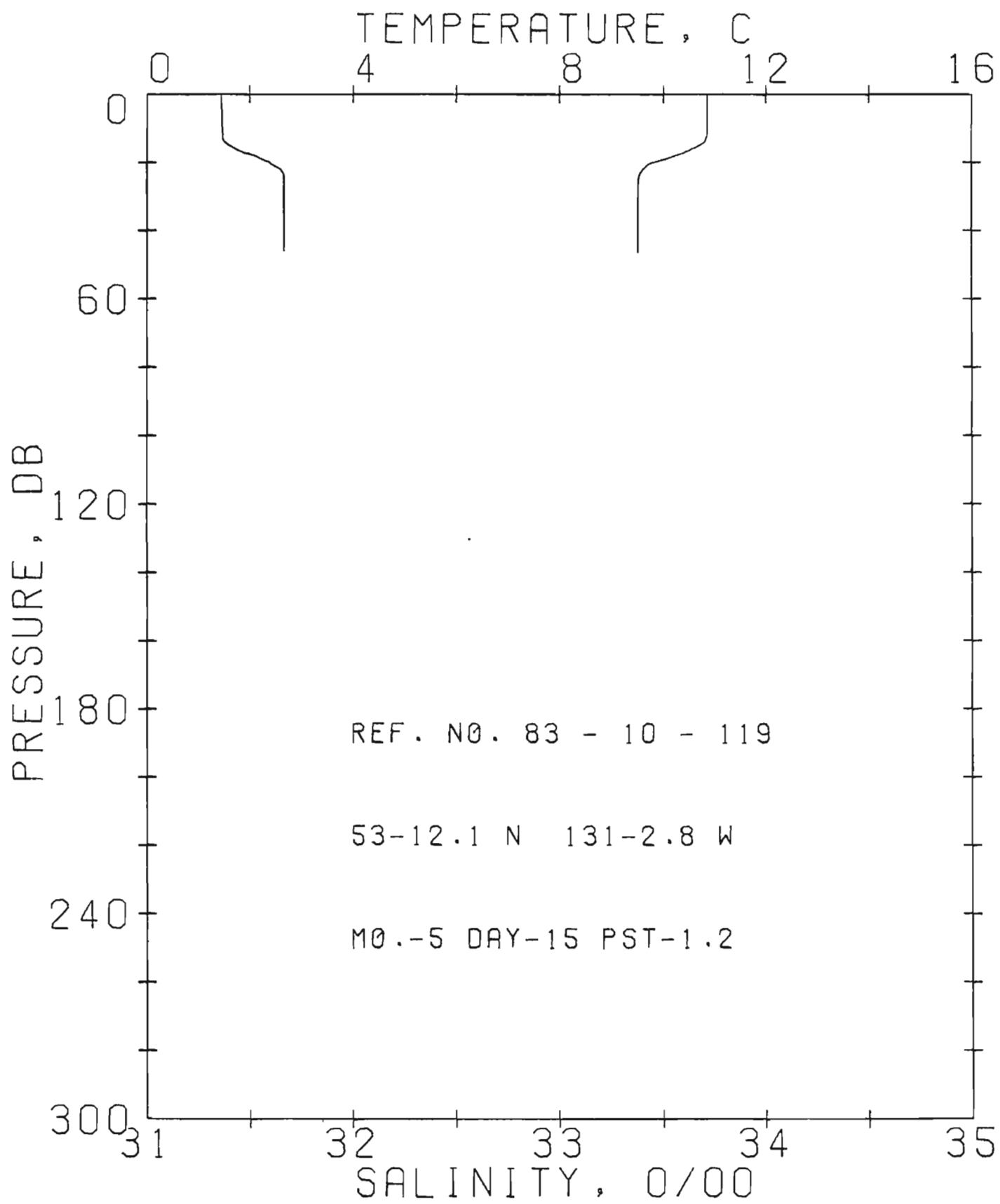
RESULTS OF STP CAST 34 POINTS TAKEN FROM DIGITAL SYSTEM

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	10.23	31.64	0	24.32	361.3	.00	.00	1487.
10	10.04	31.67	10	24.37	356.7	.36	.02	1486.
20	9.98	31.69	20	24.40	354.3	.71	.07	1486.
30	9.97	31.69	30	24.40	354.4	1.07	.16	1487.

PRES	DEPTH	TEMP	SAL	PRES	DEPTH	TEMP	SAL
0.		10.23	31.64	17.		9.99	31.69
1.		10.23	31.64	18.		9.99	31.69
2.		10.23	31.64	19.		9.98	31.69
3.		10.21	31.65	20.		9.98	31.69
4.		10.19	31.65	21.		9.98	31.69
5.		10.17	31.65	22.		9.98	31.69
6.		10.14	31.66	23.		9.98	31.69
7.		10.12	31.66	24.		9.97	31.69
8.		10.08	31.67	25.		9.97	31.69
9.		10.06	31.68	26.		9.97	31.69
10.		10.04	31.67	27.		9.97	31.69
11.		10.00	31.69	28.		9.97	31.69
12.		10.00	31.69	29.		9.97	31.69
13.		10.00	31.68	30.		9.97	31.69
14.		10.01	31.68	31.		9.97	31.69
15.		9.99	31.69	32.		9.97	31.69
16.		9.99	31.69	33.		9.97	31.69

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OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 83-10-119 DATE 15/ 5/83

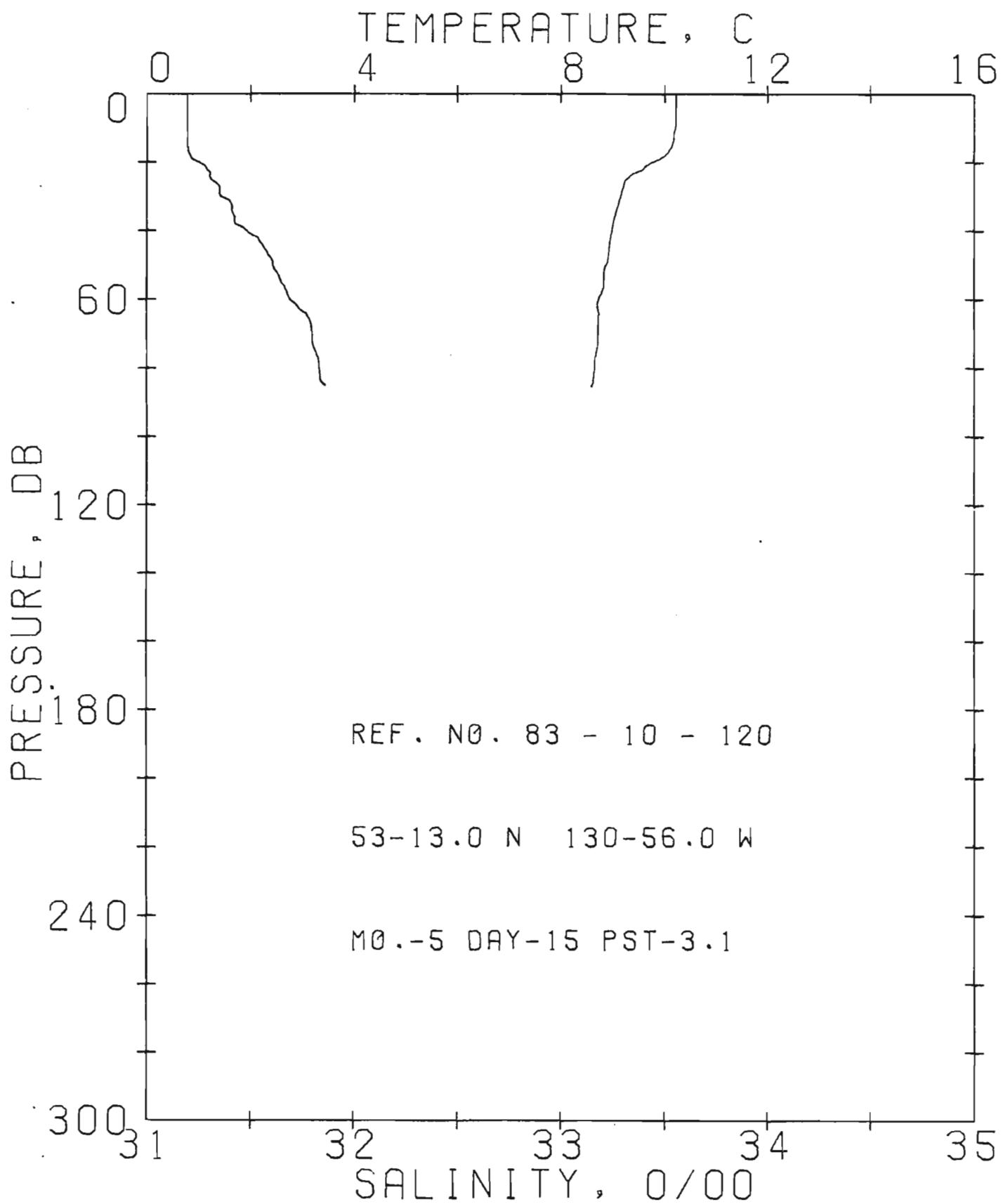
POSITION 53-12.1N, 131- 2.8W 1.2 STATION W11

RESULTS OF STP CAST 47 POINTS TAKEN FROM DIGITAL SYSTEM

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	10.85	31.36	0	24.00	392.2	.00	.00	1489.
10	10.85	31.37	10	24.00	392.0	.39	.02	1489.
20	9.75	31.60	20	24.37	357.4	.77	.08	1485.
30	9.51	31.67	30	24.46	348.9	1.12	.17	1485.

PRES	DEPTH	TEMP	SAL	PRES	DEPTH	TEMP	SAL
0.		10.85	31.36	24.		9.53	31.67
1.		10.85	31.36	25.		9.52	31.67
2.		10.85	31.36	26.		9.51	31.66
3.		10.85	31.36	27.		9.51	31.67
4.		10.85	31.36	28.		9.51	31.67
5.		10.85	31.37	29.		9.51	31.67
6.		10.85	31.36	30.		9.51	31.67
7.		10.85	31.36	31.		9.51	31.66
8.		10.86	31.36	32.		9.51	31.67
9.		10.85	31.36	33.		9.51	31.67
10.		10.85	31.37	34.		9.51	31.67
11.		10.85	31.37	35.		9.51	31.66
12.		10.85	31.37	36.		9.51	31.66
13.		10.84	31.37	37.		9.51	31.67
14.		10.80	31.38	38.		9.51	31.67
15.		10.68	31.40	39.		9.51	31.66
16.		10.55	31.43	40.		9.51	31.67
17.		10.39	31.47	41.		9.51	31.67
18.		10.20	31.53	42.		9.51	31.67
19.		10.00	31.56	43.		9.51	31.67
20.		9.75	31.60	44.		9.51	31.67
21.		9.66	31.62	45.		9.51	31.67
22.		9.60	31.65	46.		9.51	31.67
23.		9.55	31.66				



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 83-10-120

DATE 15/ 5/83

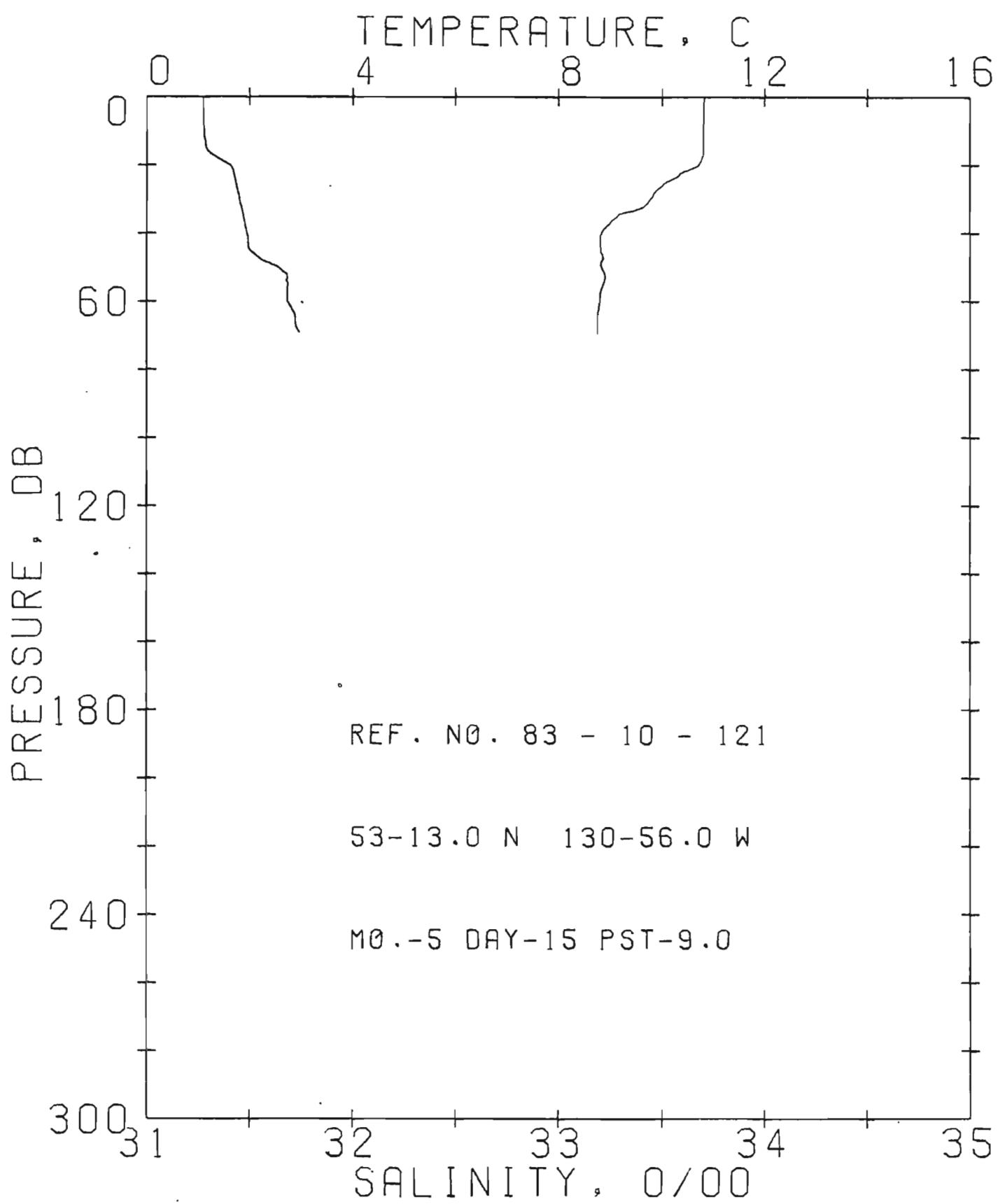
POSITION 53-13.0N, 130-56.0W 3.1 STATION W10

RESULTS OF STP CAST 86 POINTS TAKEN FROM DIGITAL SYSTEM

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	10.22	31.19	0	23.97	394.4	.00	.00	1486.
10	10.21	31.20	10	23.98	394.3	.39	.02	1486.
20	9.73	31.25	20	24.10	382.7	.79	.08	1485.
30	9.15	31.36	30	24.27	366.4	1.16	.17	1483.
50	8.86	31.61	50	24.51	343.9	1.87	.46	1483.
75	8.70	31.82	75	24.70	326.3	2.70	.99	1483.

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OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 83-10-121 DATE 15/ 5/83

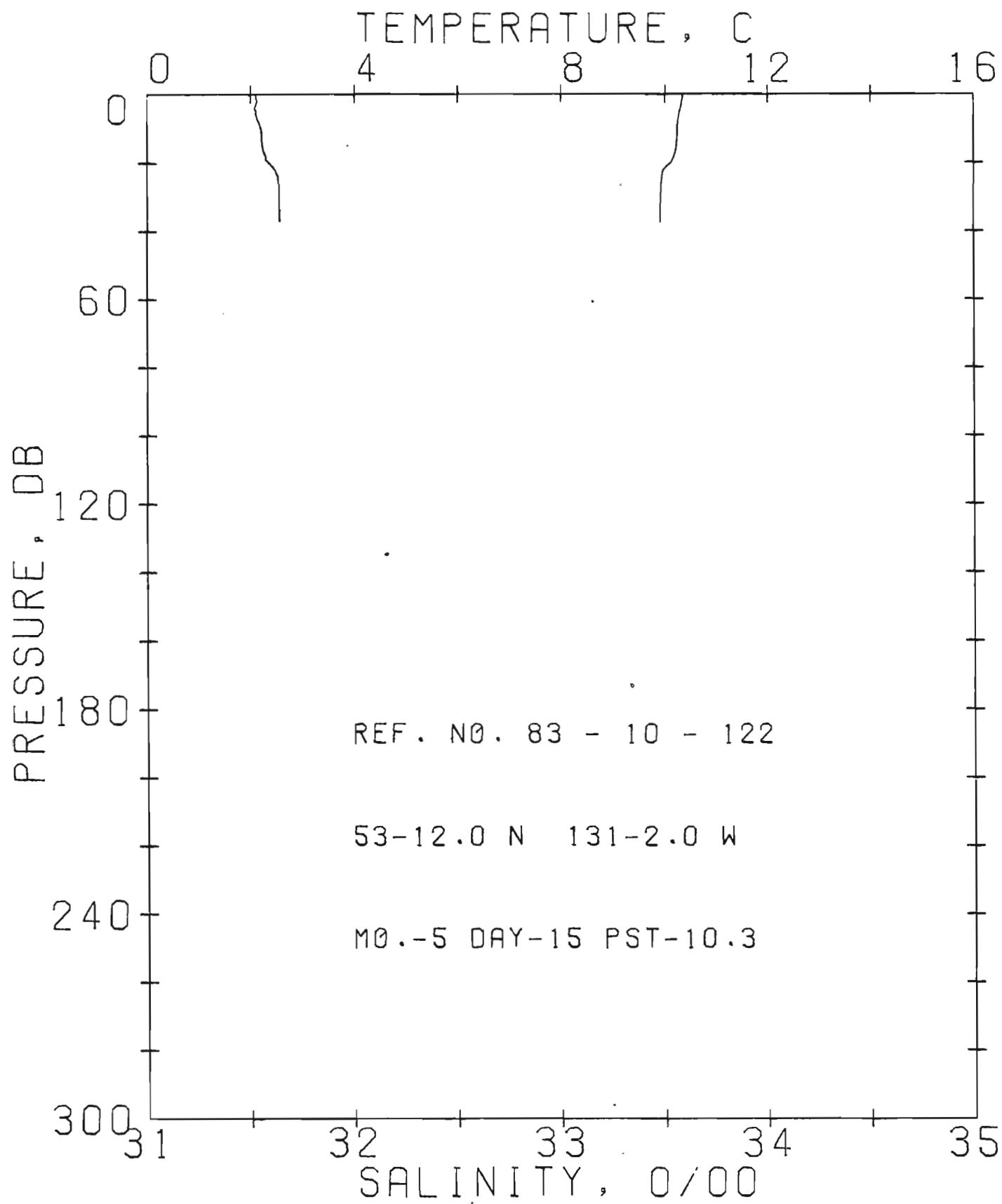
POSITION 53-13.0N, 130-56.0W 9.0 STATION W10

RESULTS OF STP CAST 70 POINTS TAKEN FROM DIGITAL SYSTEM

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	10.82	31.27	0	23.94	398.1	.00	.00	1489.
10	10.80	31.28	10	23.94	397.5	.40	.02	1489.
20	10.71	31.41	20	24.06	386.7	.79	.08	1489.
30	9.77	31.45	30	24.25	368.6	1.17	.18	1485.
50	8.83	31.65	50	24.55	340.7	1.88	.46	1483.

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OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 83-10-122 DATE 15/ 5/83

POSITION 53-12.0N, 131- 2.0W 10.3 STATION W11

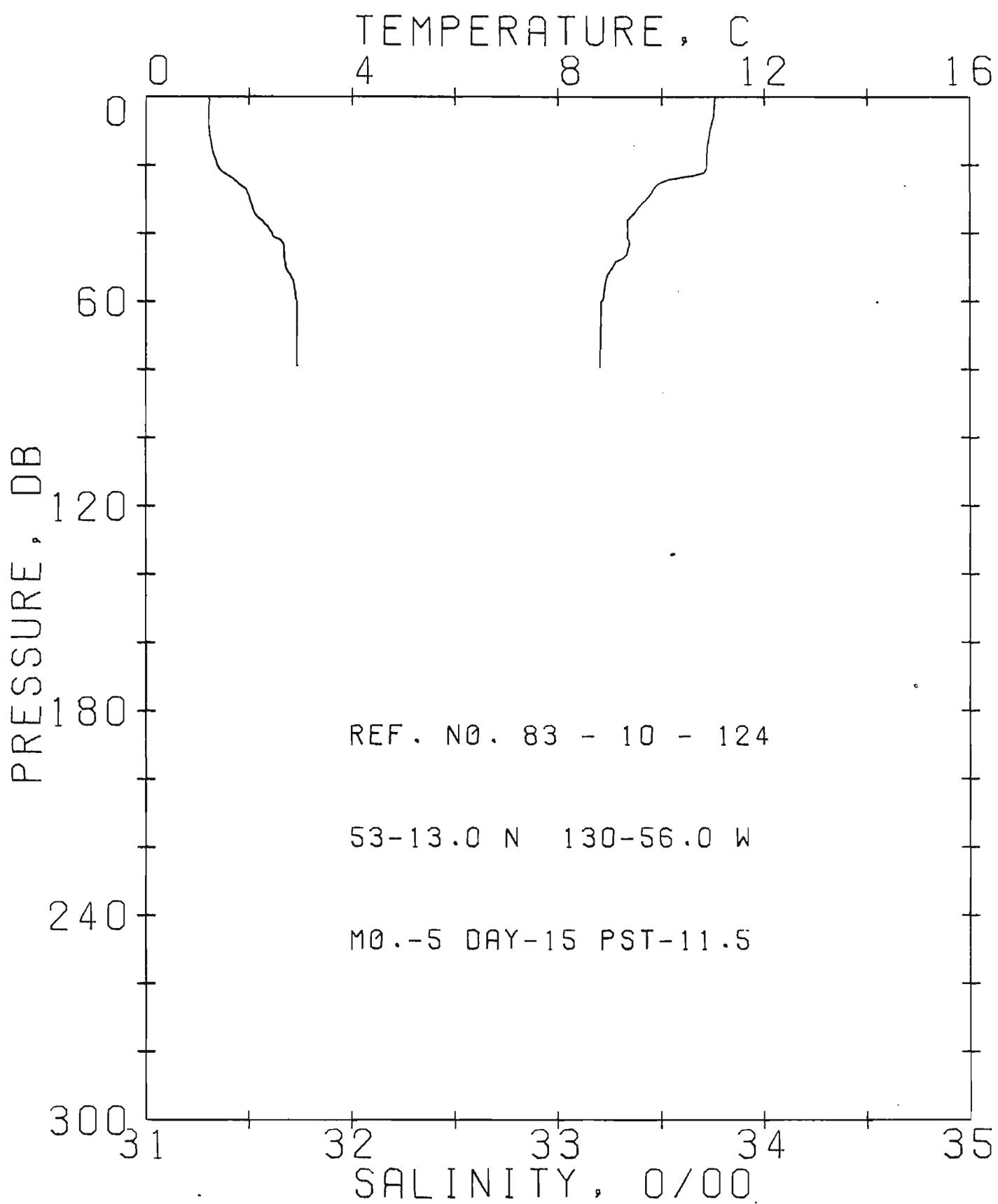
RESULTS OF STP CAST 38 POINTS TAKEN FROM DIGITAL SYSTEM

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	10.34	31.53	0	24.21	371.6	.00	.00	1487.
10	10.25	31.55	10	24.25	368.5	.37	.02	1487.
20	10.11	31.59	20	24.30	363.4	.74	.07	1487.
30	9.92	31.64	30	24.37	357.2	1.10	.17	1486.

PRES	DEPTH	TEMP	SAL	PRES	DEPTH	TEMP	SAL
0.		10.34	31.53	19.		10.16	31.58
1.		10.34	31.53	20.		10.11	31.59
2.		10.33	31.53	21.		10.02	31.61
3.		10.32	31.53	22.		9.97	31.62
4.		10.31	31.52	23.		9.95	31.63
5.		10.29	31.53	24.		9.94	31.64
6.		10.27	31.53	25.		9.94	31.63
7.		10.26	31.53	26.		9.93	31.64
8.		10.25	31.54	27.		9.93	31.64
9.		10.25	31.55	28.		9.93	31.64
10.		10.25	31.55	29.		9.93	31.64
11.		10.25	31.56	30.		9.92	31.64
12.		10.25	31.56	31.		9.92	31.64
13.		10.24	31.56	32.		9.92	31.64
14.		10.24	31.56	33.		9.91	31.64
15.		10.23	31.56	34.		9.91	31.64
16.		10.22	31.56	35.		9.91	31.64
17.		10.20	31.57	36.		9.91	31.64
18.		10.18	31.58	37.		9.91	31.64

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OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 83-10-124

DATE 15/ 5/83

POSITION 53-13.0N, 130-56.0W

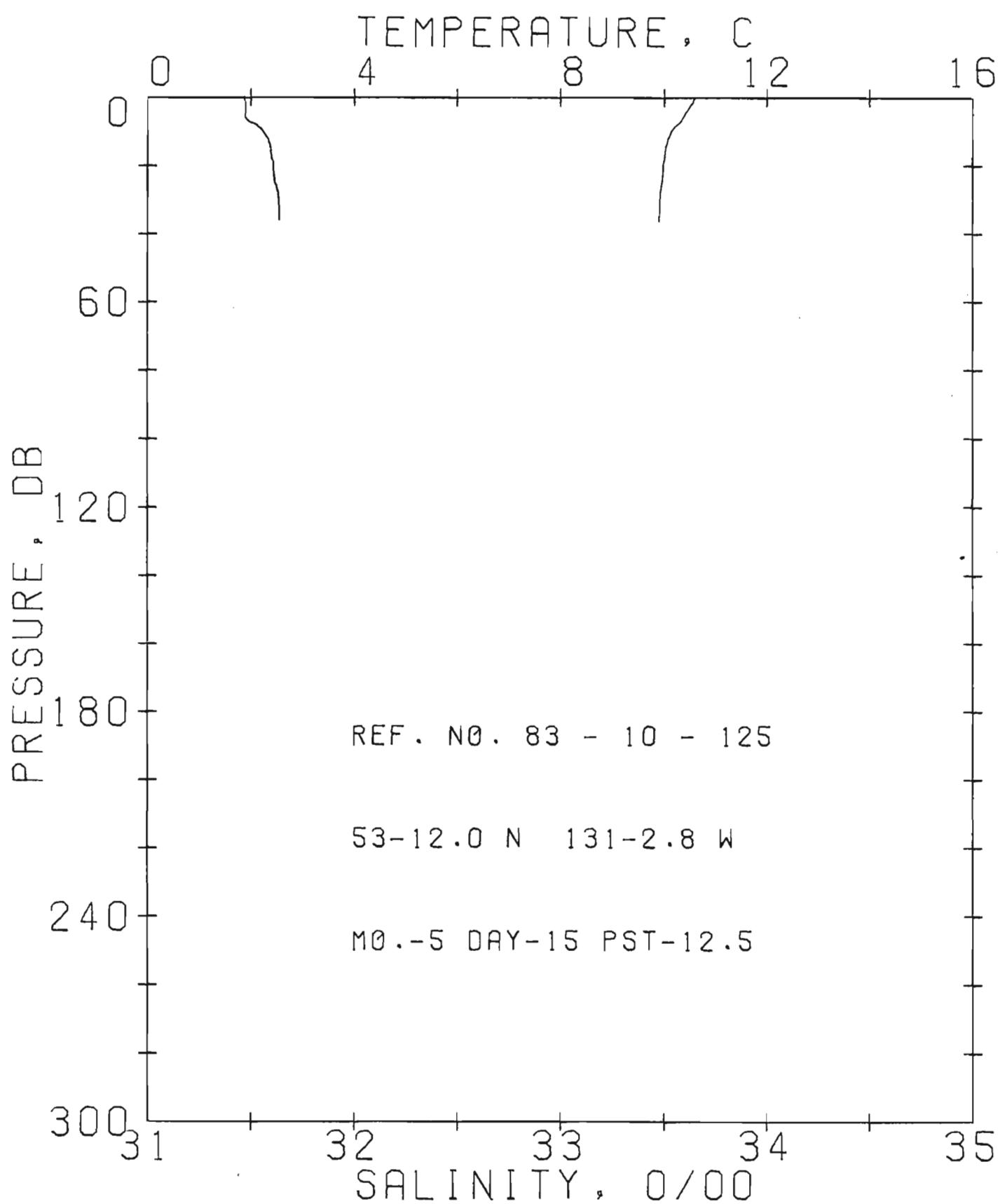
11.5 STATION W10

RESULTS OF STP CAST 80 POINTS TAKEN FROM DIGITAL SYSTEM

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	PCT. EN	SOUND
0	11.05	31.31	0	23.92	399.6	.00	.00	1489.
10	10.94	31.31	10	23.94	397.6	.40	.02	1489.
20	10.88	31.35	20	23.98	394.0	.79	.08	1489.
30	9.70	31.51	30	24.30	363.5	1.17	.18	1485.
50	9.05	31.68	50	24.54	341.4	1.87	.46	1483.
75	8.82	31.73	75	24.62	334.3	2.71	1.00	1483.

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OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 83-10-125 DATE 15/ 5/83

POSITION 53-12.0N, 131- 2.8W 12.5 STATION W11

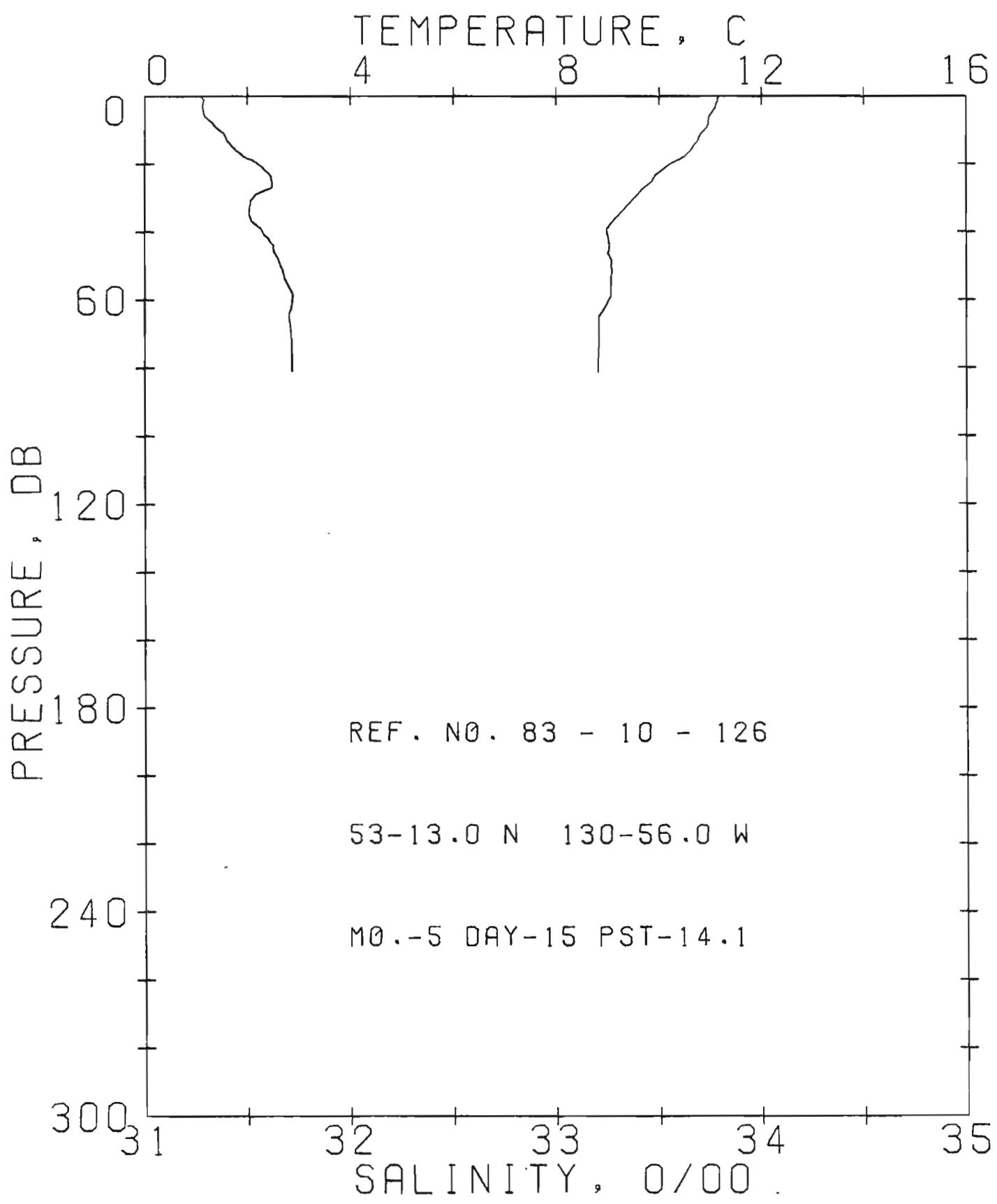
RESULTS OF STP CAST 37 POINTS TAKEN FROM DIGITAL SYSTEM

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	10.59	31.47	0	24.13	379.9	.00	.00	1488.
10	10.14	31.56	10	24.27	365.9	.37	.02	1487.
20	9.98	31.61	20	24.34	360.1	.74	.07	1486.
30	9.92	31.64	30	24.37	357.4	1.10	.17	1486.

PRES	DEPTH	TEMP	SAL	PRES	DEPTH	TEMP	SAL
0.		10.59	31.47	19.		9.99	31.61
1.		10.57	31.47	20.		9.98	31.61
2.		10.52	31.48	21.		9.98	31.61
3.		10.47	31.48	22.		9.98	31.61
4.		10.43	31.48	23.		9.97	31.62
5.		10.39	31.47	24.		9.96	31.62
6.		10.35	31.48	25.		9.96	31.62
7.		10.31	31.49	26.		9.94	31.63
8.		10.23	31.53	27.		9.93	31.63
9.		10.17	31.55	28.		9.93	31.64
10.		10.14	31.56	29.		9.92	31.63
11.		10.10	31.57	30.		9.92	31.64
12.		10.08	31.59	31.		9.92	31.64
13.		10.06	31.59	32.		9.91	31.64
14.		10.04	31.60	33.		9.91	31.64
15.		10.03	31.60	34.		9.91	31.64
16.		10.02	31.60	35.		9.90	31.64
17.		10.02	31.60	36.		9.90	31.64
18.		10.01	31.60				

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OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 83-10-126 DATE 15/ 5/83

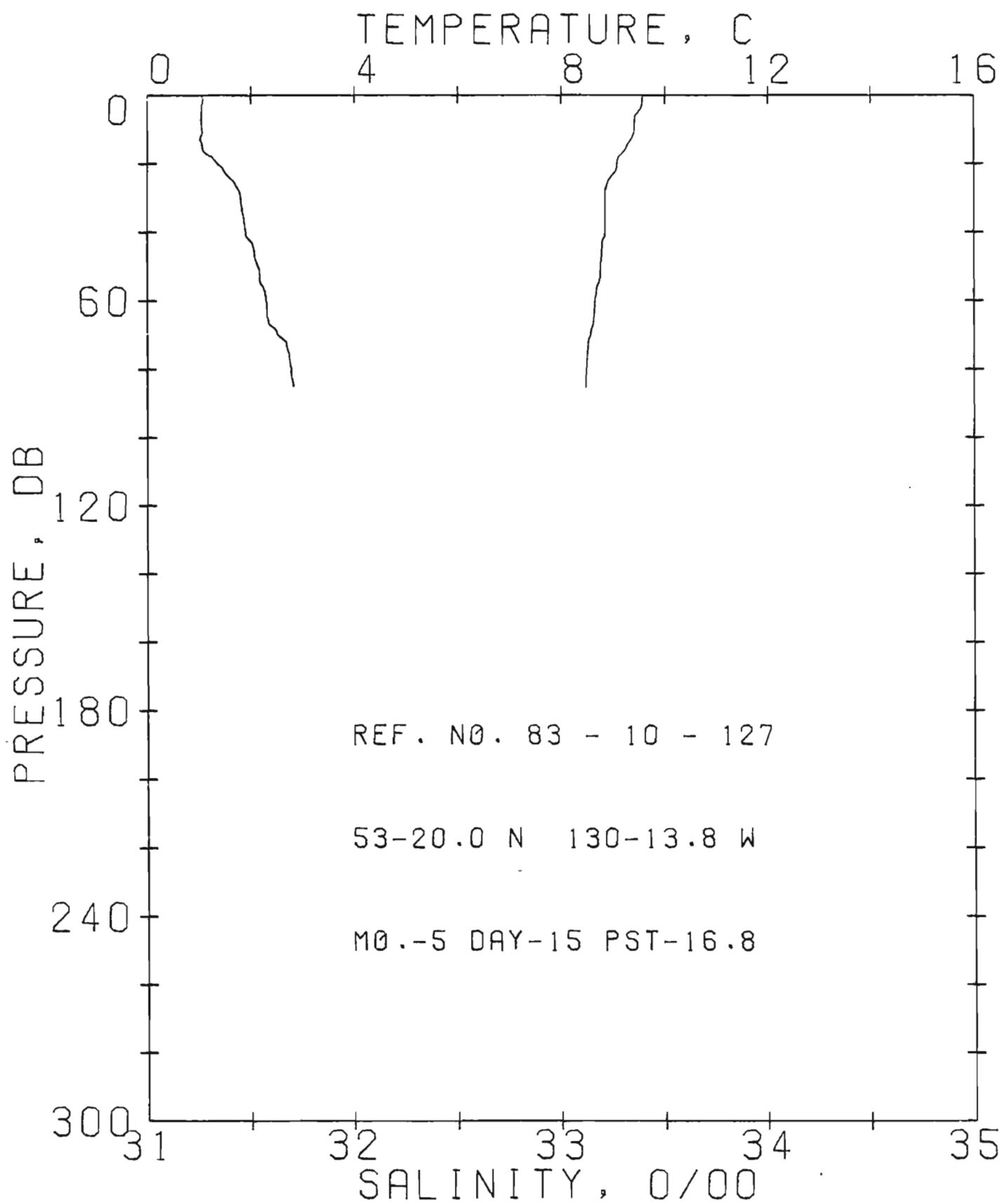
POSITION 53-13.0N, 130-56.0W 14.1 STATION W10

RESULTS OF STP CAST 82 POINTS TAKEN FROM DIGITAL SYSTEM

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	11.16	31.28	0	23.88	403.6	.00	.00	1490.
10	10.88	31.37	10	24.00	392.6	.40	.02	1489.
20	10.20	31.56	20	24.26	367.7	.78	.08	1487.
30	9.52	31.53	30	24.35	359.4	1.14	.17	1485.
50	9.07	31.66	50	24.52	342.8	1.84	.45	1483.
75	8.83	31.72	75	24.60	335.6	2.69	.99	1483.

218



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 83-10-127 DATE 15/ 5/83

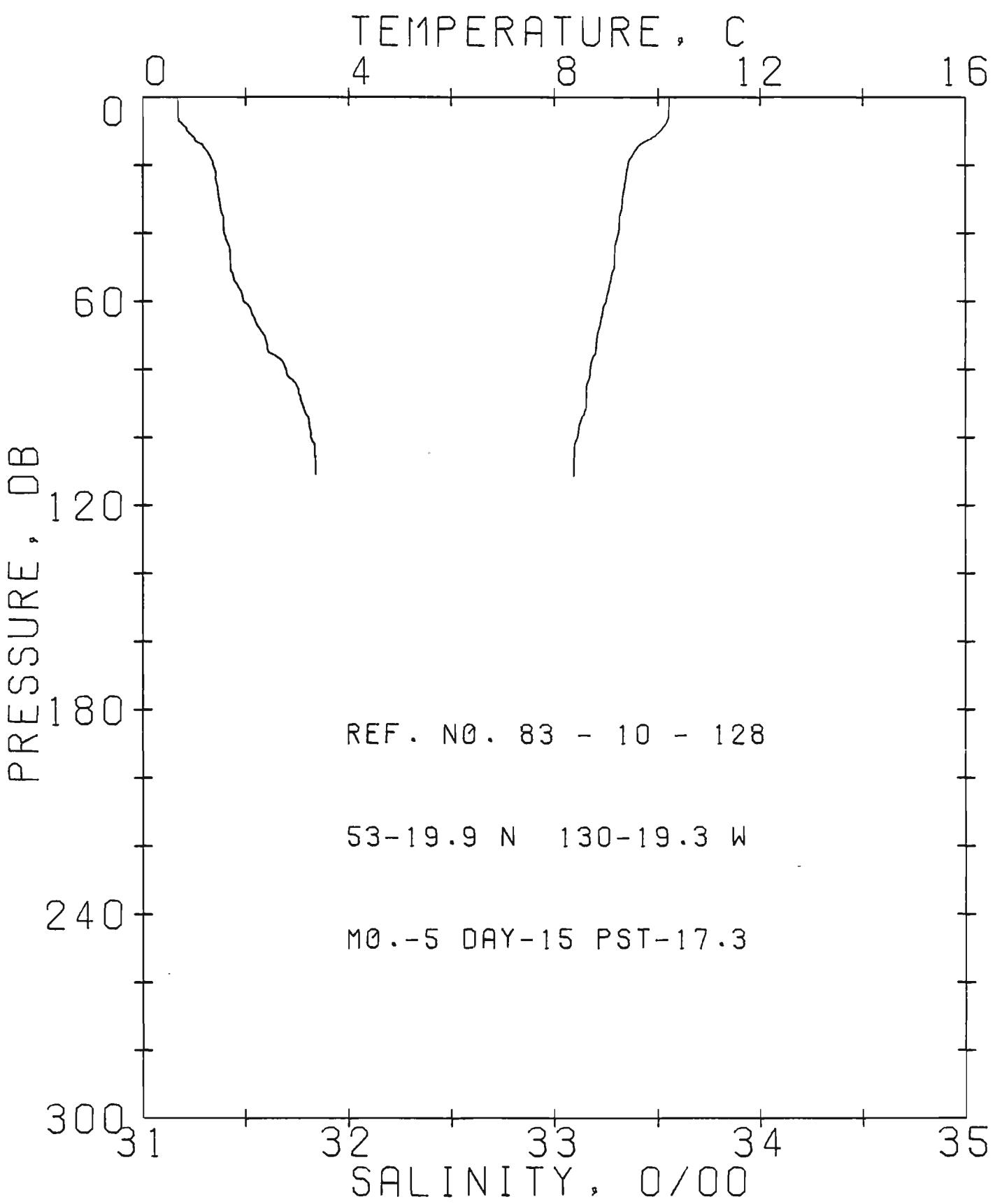
POSITION 53-20.0N, 130-13.8W 16.8 STATION W 1

RESULTS OF STP CAST 86 POINTS TAKEN FROM DIGITAL SYSTEM

GUIDELINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	9.58	31.27	0	24.13	379.2	.00	.00	1484.
10	9.43	31.27	10	24.16	377.0	.38	.02	1484.
20	9.09	31.34	20	24.27	366.4	.75	.08	1483.
30	8.86	31.45	30	24.39	355.1	1.11	.17	1482.
50	8.77	31.54	50	24.47	347.7	1.82	.45	1482.
75	8.51	31.69	75	24.63	333.4	2.67	1.00	1482.

220



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 83-10-128 DATE 15/ 5/83

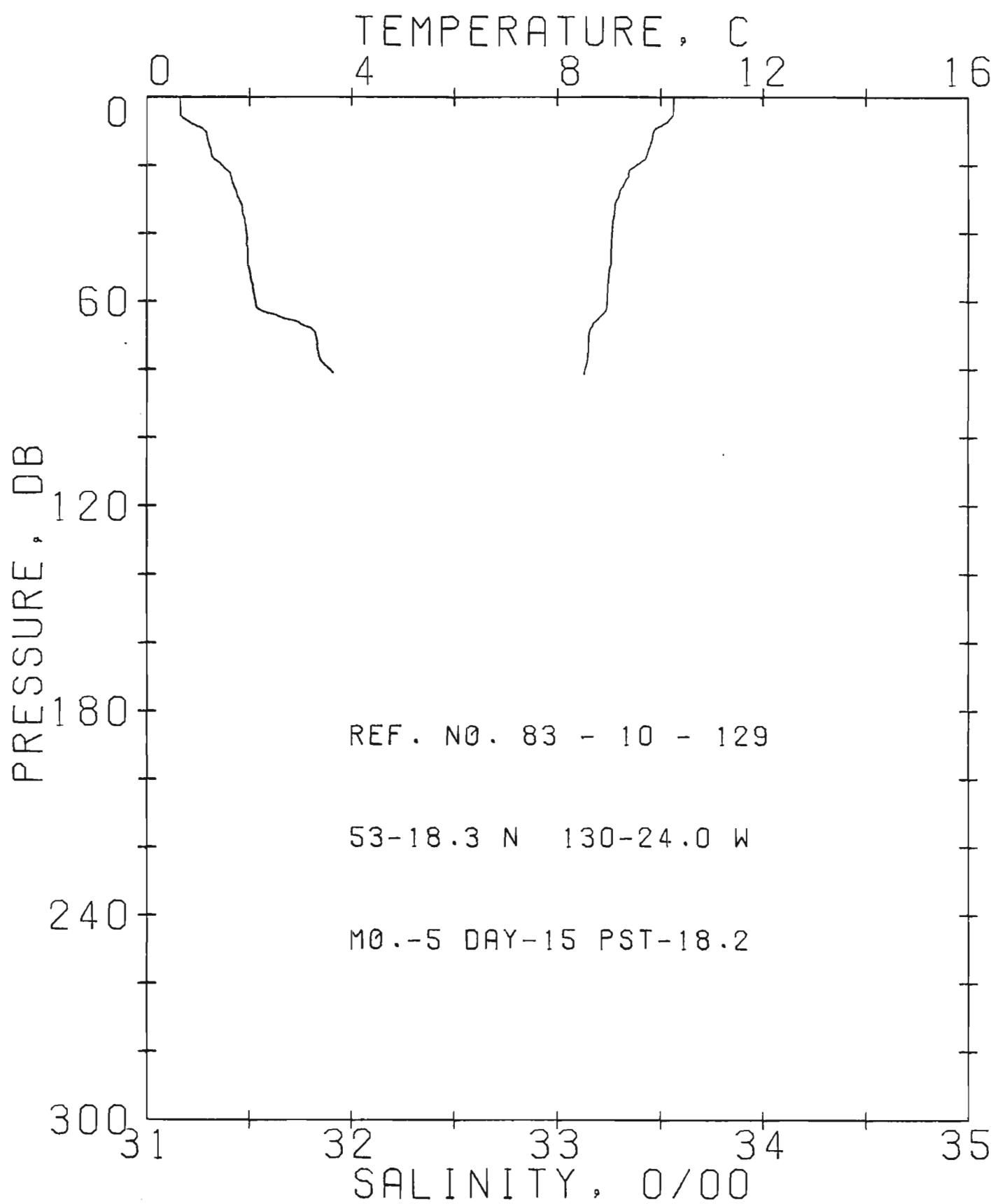
POSITION 53-19.9N, 130-19.3W 17.3 STATION W 2

RESULTS OF STP CAST 112 POINTS TAKEN FROM DIGITAL SYSTEM

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	10.22	31.17	0	23.95	396.4	.00	.00	1486 -
10	10.05	31.22	10	24.02	390.1	.40	.02	1486 -
20	9.43	31.34	20	24.22	371.5	.77	.08	1484 -
30	9.32	31.38	30	24.26	367.7	1.14	.17	1484 -
50	9.17	31.43	50	24.32	362.0	1.87	.47	1484 -
75	8.80	31.61	75	24.53	343.0	2.75	1.03	1483 -
100	8.45	31.82	99	24.74	323.2	3.58	1.76	1482 -

222



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 83-10-129 DATE 15/ 5/83

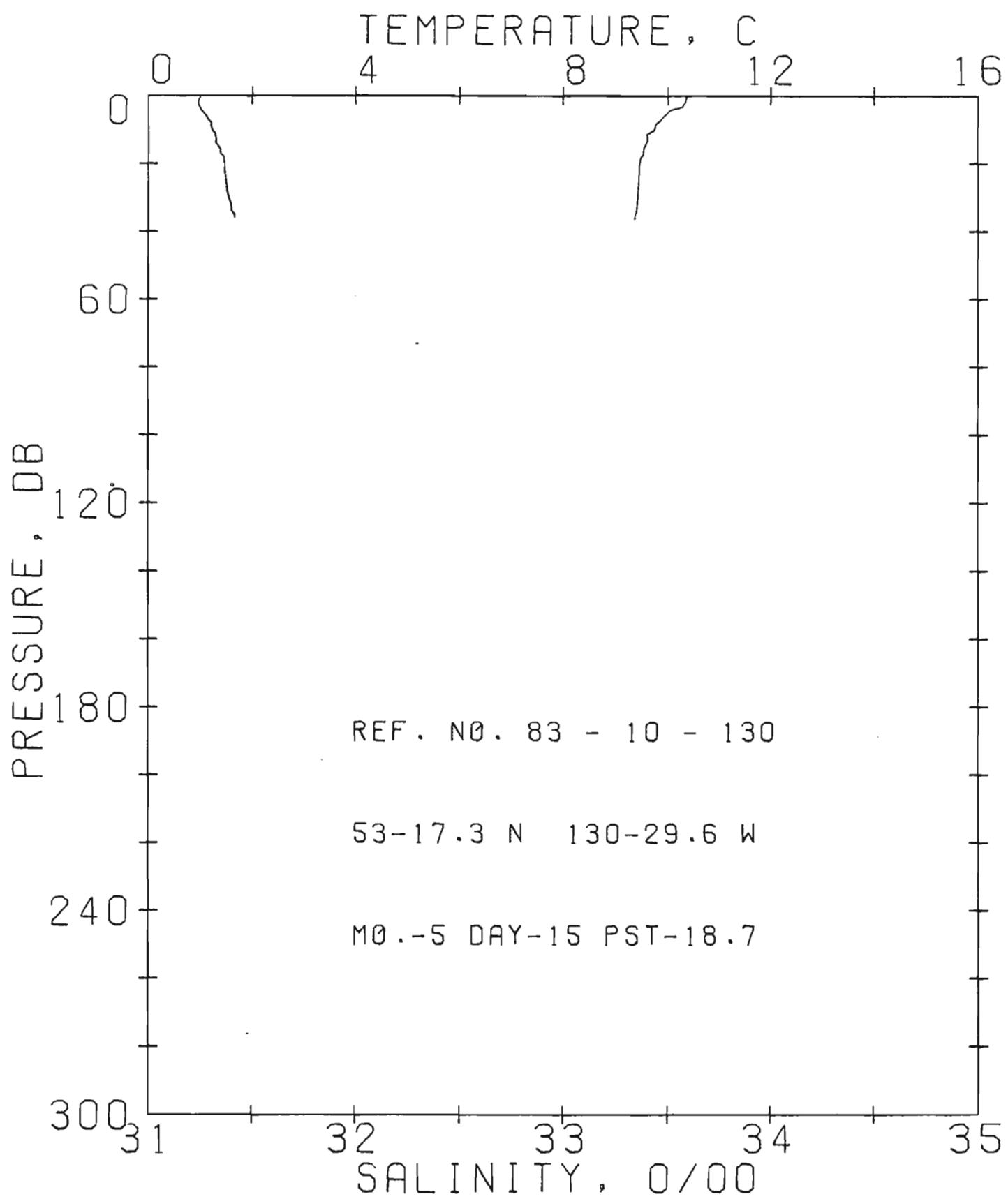
POSITION 53-18.3N, 130-24.0W 18.2 STATION W 3

RESULTS OF STP CAST 82 POINTS TAKEN FROM DIGITAL SYSTEM

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	10.26	31.16	0	23.94	397.4	.00	.00	1486.
10	9.87	31.29	10	24.11	381.9	.39	.02	1485.
20	9.51	31.37	20	24.22	370.9	.77	.08	1484.
30	9.15	31.45	30	24.35	359.4	1.14	.17	1483.
50	9.01	31.50	50	24.40	354.2	1.85	.46	1483.
75	8.60	31.84	75	24.73	323.3	2.70	1.00	1482.

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OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 83-10-130 DATE 15/ 5/83

POSITION 53-17.3N, 130-29.6W 18.7 STATION W 4

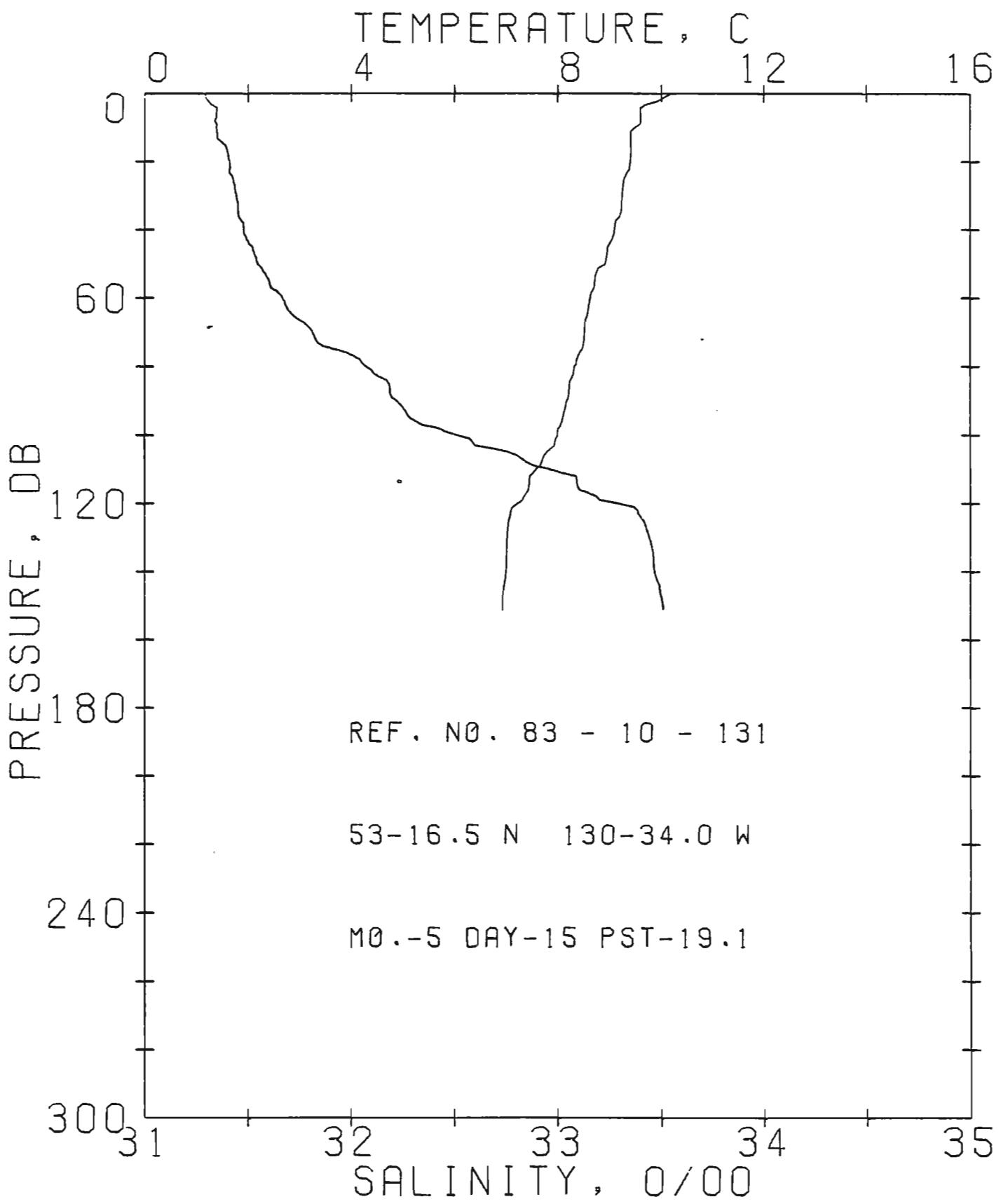
RESULTS OF STP CAST 37 POINTS TAKEN FROM DIGITAL SYSTEM

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	10.37	31.25	0	23.99	392.6	.00	.00	1487.
10	9.74	31.31	10	24.14	378.7	.39	.02	1485.
20	9.47	31.37	20	24.23	370.3	.76	.08	1484.
30	9.43	31.39	30	24.25	368.2	1.13	.17	1484.

PRES	DEPTH	TEMP	SAL	PRES	DEPTH	TEMP	SAL
0.		10.37	31.25	19.		9.48	31.37
1.		10.36	31.24	20.		9.47	31.37
2.		10.33	31.24	21.		9.46	31.37
3.		10.29	31.24	22.		9.46	31.37
4.		10.06	31.25	23.		9.45	31.37
5.		9.99	31.27	24.		9.46	31.37
6.		9.92	31.28	25.		9.45	31.38
7.		9.86	31.29	26.		9.45	31.38
8.		9.78	31.30	27.		9.45	31.38
9.		9.77	31.30	28.		9.44	31.38
10.		9.74	31.31	29.		9.43	31.38
11.		9.60	31.32	30.		9.43	31.39
12.		9.62	31.33	31.		9.42	31.39
13.		9.62	31.33	32.		9.42	31.40
14.		9.59	31.32	33.		9.41	31.40
15.		9.55	31.34	34.		9.41	31.40
16.		9.54	31.35	35.		9.38	31.42
17.		9.53	31.35	36.		9.38	31.42
18.		9.49	31.37				

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OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 83-10-131 DATE 15/ 5/83

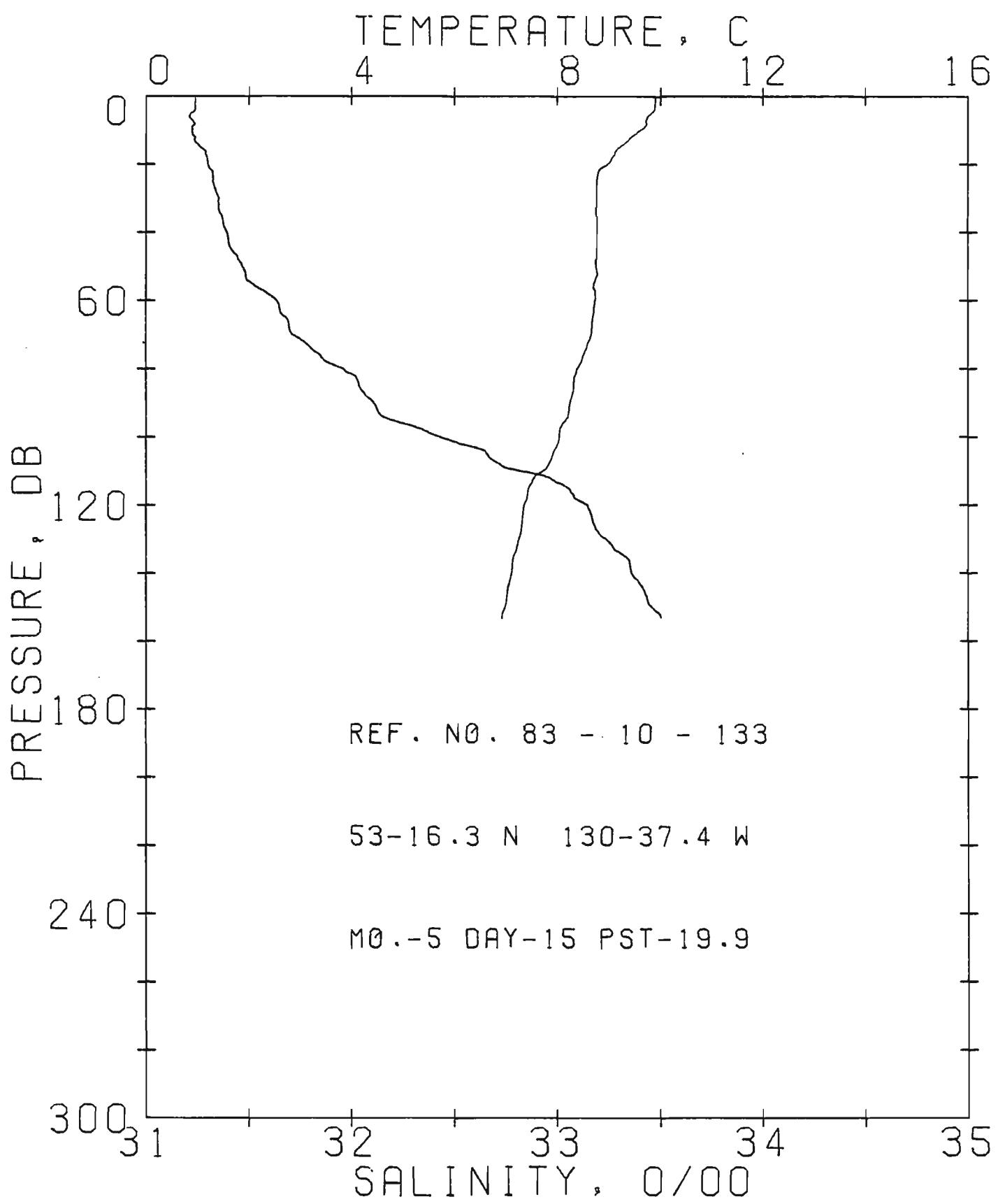
POSITION 53-16.5N, 130-34.0W 19.1 STATION W 5

RESULTS OF STP CAST 152 POINTS TAKEN FROM DIGITAL SYSTEM

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	10.16	31.30	0	24.06	385.9	.00	.00	1486.
10	9.48	31.35	10	24.21	371.7	.38	.02	1484.
20	9.41	31.41	20	24.28	365.9	.74	.08	1484.
30	9.25	31.45	30	24.33	361.2	1.11	.17	1484.
50	8.92	31.55	50	24.46	349.1	1.82	.46	1483.
75	8.47	31.93	75	24.82	314.7	2.65	.99	1482.
100	8.00	32.52	99	25.35	265.0	3.38	1.63	1481.
125	7.06	33.42	124	26.19	185.6	3.93	2.26	1479.
150	6.93	33.51	149	26.28	177.3	4.39	2.90	1479.

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OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 83-10-133 DATE 15/ 5/83

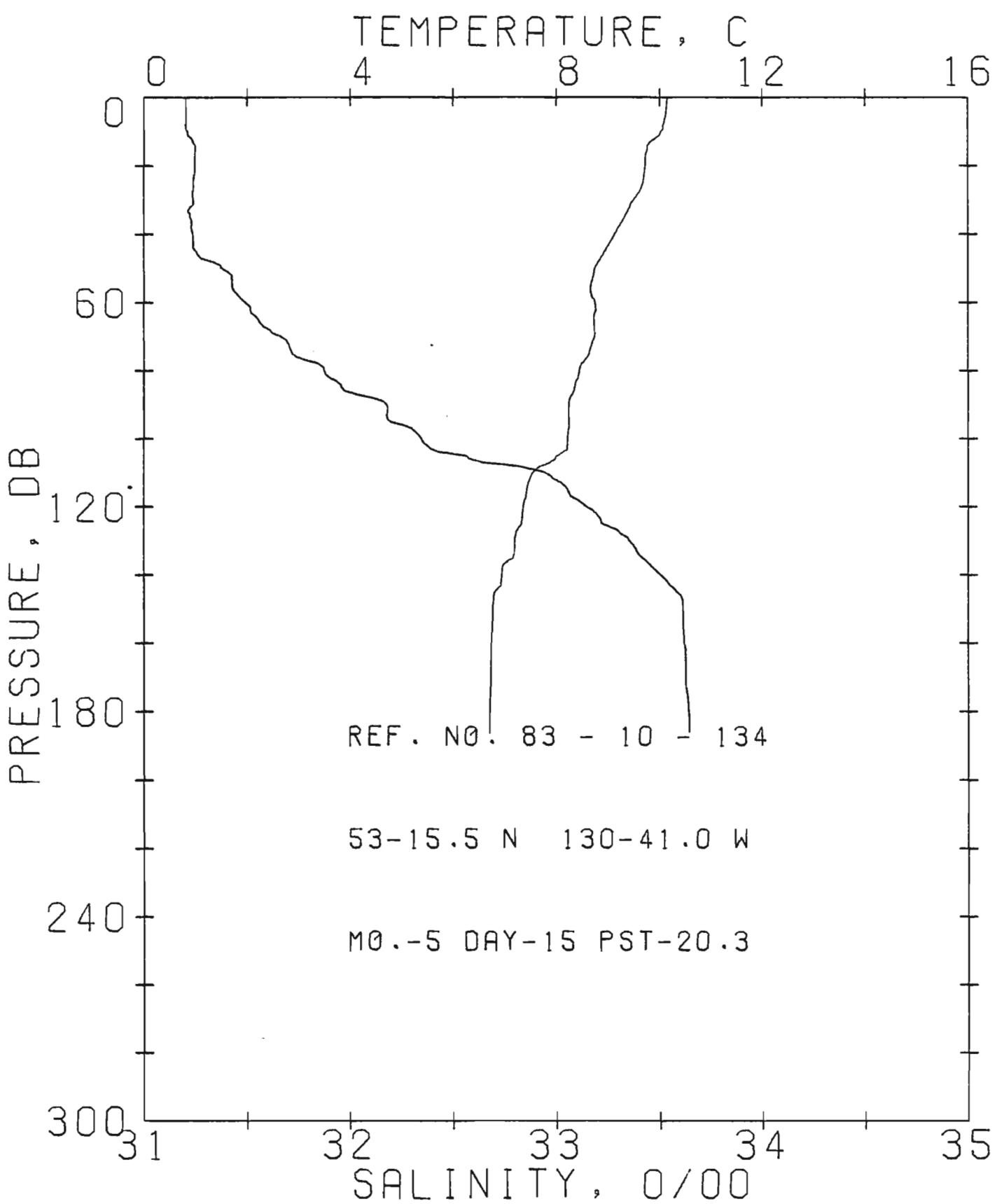
POSITION 53-16.3N, 130-37.4W 19.9 STATION W 6

RESULTS OF STP CAST 154 POINTS TAKEN FROM DIGITAL SYSTEM

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	9.91	31.24	0	24.06	386.1	.00	.00	1485.
10	9.60	31.23	10	24.10	382.7	.39	.02	1484.
20	8.97	31.30	20	24.26	367.8	.76	.08	1482.
30	8.77	31.36	30	24.33	360.9	1.12	.17	1482.
50	8.75	31.47	50	24.42	352.5	1.84	.46	1482.
75	8.53	31.83	75	24.73	323.1	2.69	1.00	1482.
100	8.04	32.43	99	25.28	271.7	3.44	1.67	1481.
125	7.33	33.18	124	25.96	207.1	4.02	2.33	1480.
150	6.98	33.46	149	26.23	181.7	4.50	3.00	1479.

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OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 83-10-134

DATE 15/ 5/83

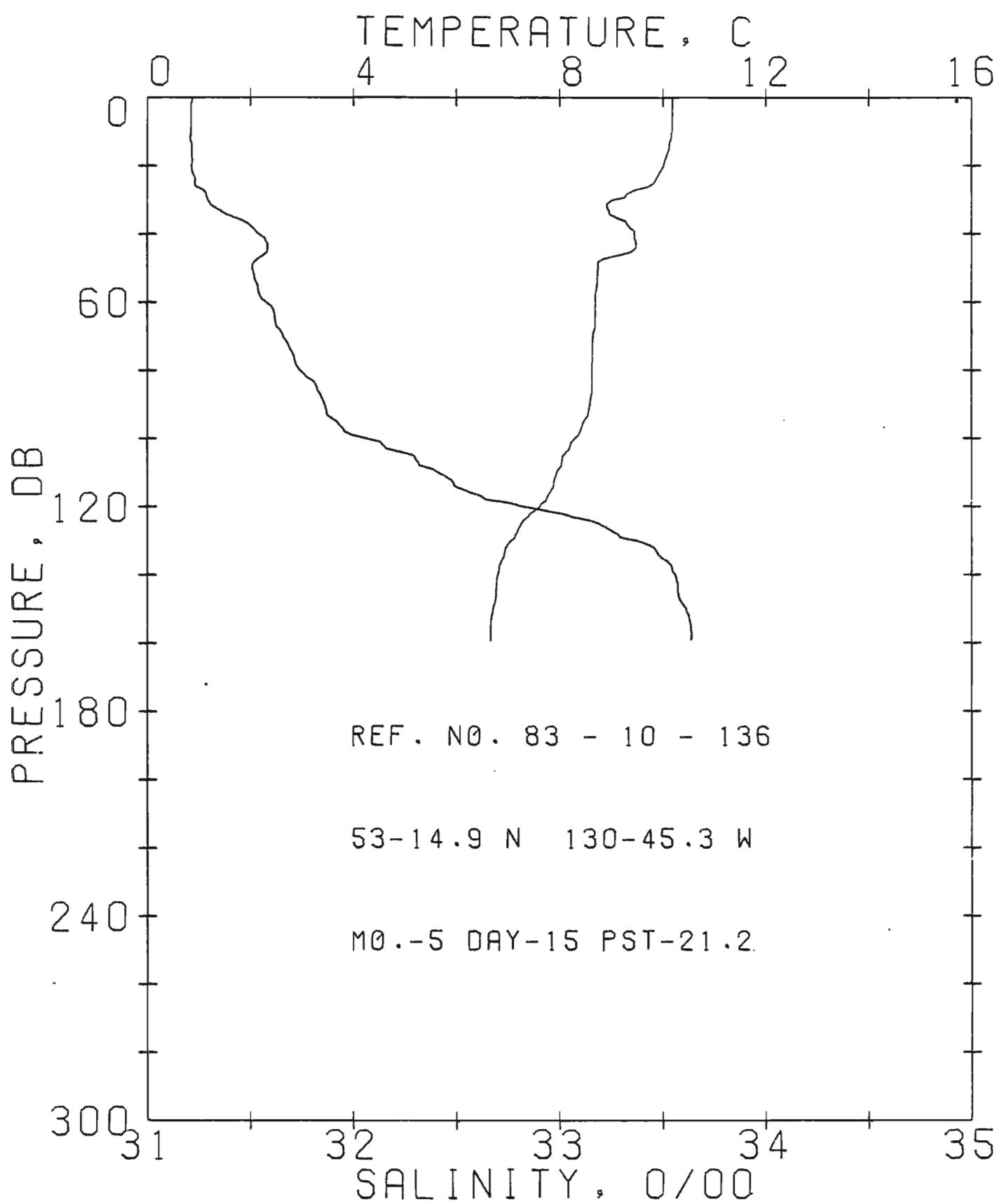
POSITION 53-15.5N, 130-41.0W 20.3 STATION W 7

RESULTS OF STP CAST 187 POINTS TAKEN FROM DIGITAL SYSTEM

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	10.15	31.21	0	23.99	392.5	.00	.00	1486.
10	10.03	31.21	10	24.02	390.2	.39	.02	1486.
20	9.72	31.25	20	24.10	383.0	.78	.08	1485.
30	9.48	31.24	30	24.13	380.1	1.16	.18	1484.
50	8.73	31.38	50	24.35	358.9	1.91	.48	1482.
75	8.63	31.72	75	24.64	332.3	2.77	1.03	1482.
100	8.22	32.35	99	25.19	280.5	3.53	1.70	1482.
125	7.33	33.22	124	26.00	203.8	4.11	2.37	1480.
150	6.77	33.61	149	26.38	167.7	4.57	3.00	1479.
175	6.72	33.63	174	26.40	165.6	4.99	3.69	1479.

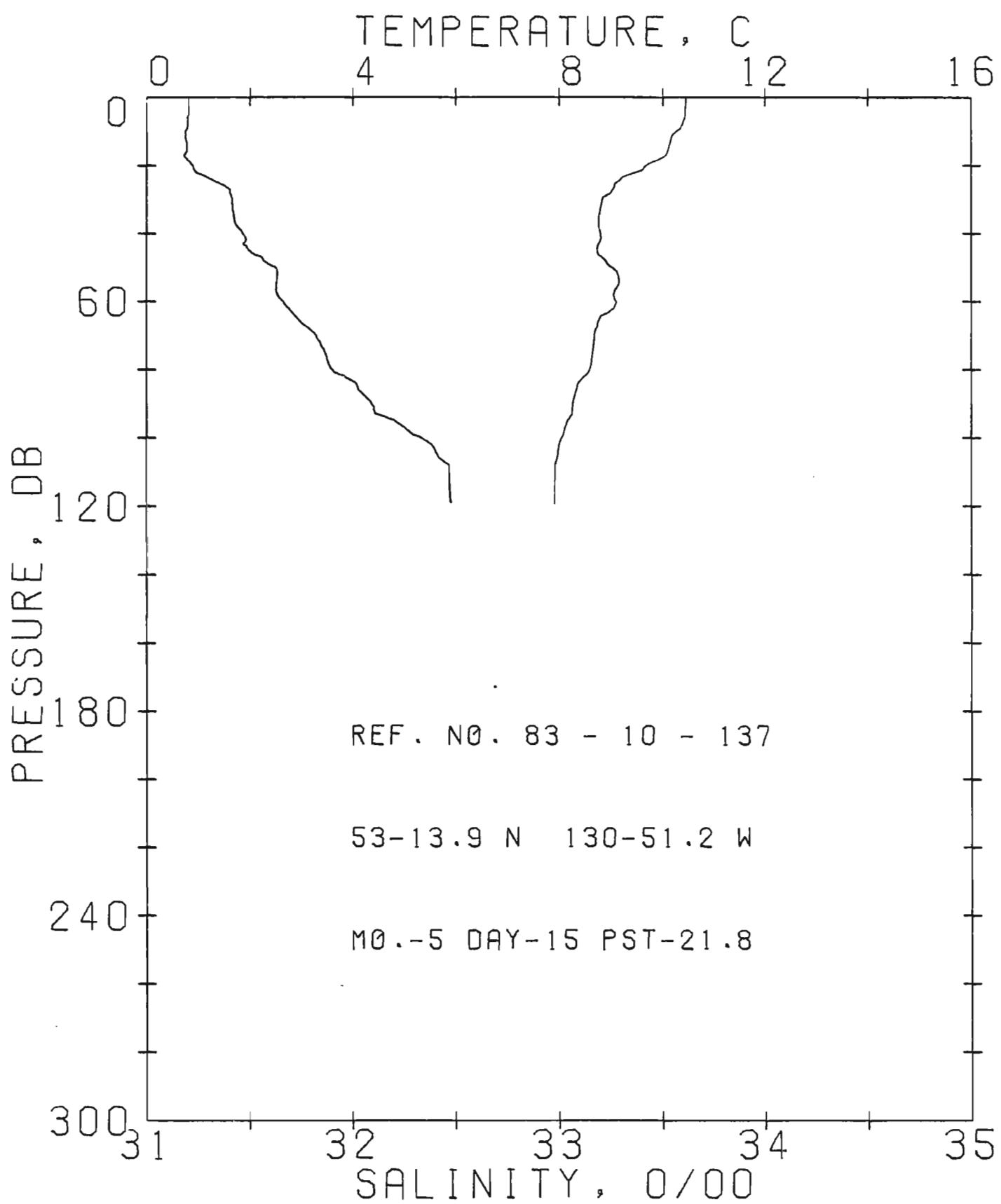
232



OFFSHORE OCEANOGRAPHY GROUP
REFERENCE NO. 83-10-136 DATE 15/ 5/83
POSITION 53-14.9N, 130-45.3W 21.2 STATION W 8
RESULTS OF STP CAST 160 POINTS TAKEN FROM DIGITAL SYSTEM
GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	10.19	31.22	0	24.00	392.2	.00	.00	1486.
10	10.17	31.21	10	24.00	392.4	.39	.02	1486.
20	10.02	31.22	20	24.02	390.0	.78	.08	1486.
30	9.00	31.30	30	24.25	368.6	1.17	.18	1482.
50	8.74	31.51	50	24.45	349.5	1.88	.47	1482.
75	8.63	31.71	75	24.63	333.4	2.74	1.01	1482.
100	8.29	32.07	99	24.96	302.1	3.54	1.73	1482.
125	7.26	33.20	124	25.99	204.7	4.20	2.47	1480.
150	6.71	33.61	149	26.39	166.7	4.64	3.10	1479.

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OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 83-10-137

DATE 15/ 5/83

POSITION 53-13.9N, 130-51.2W

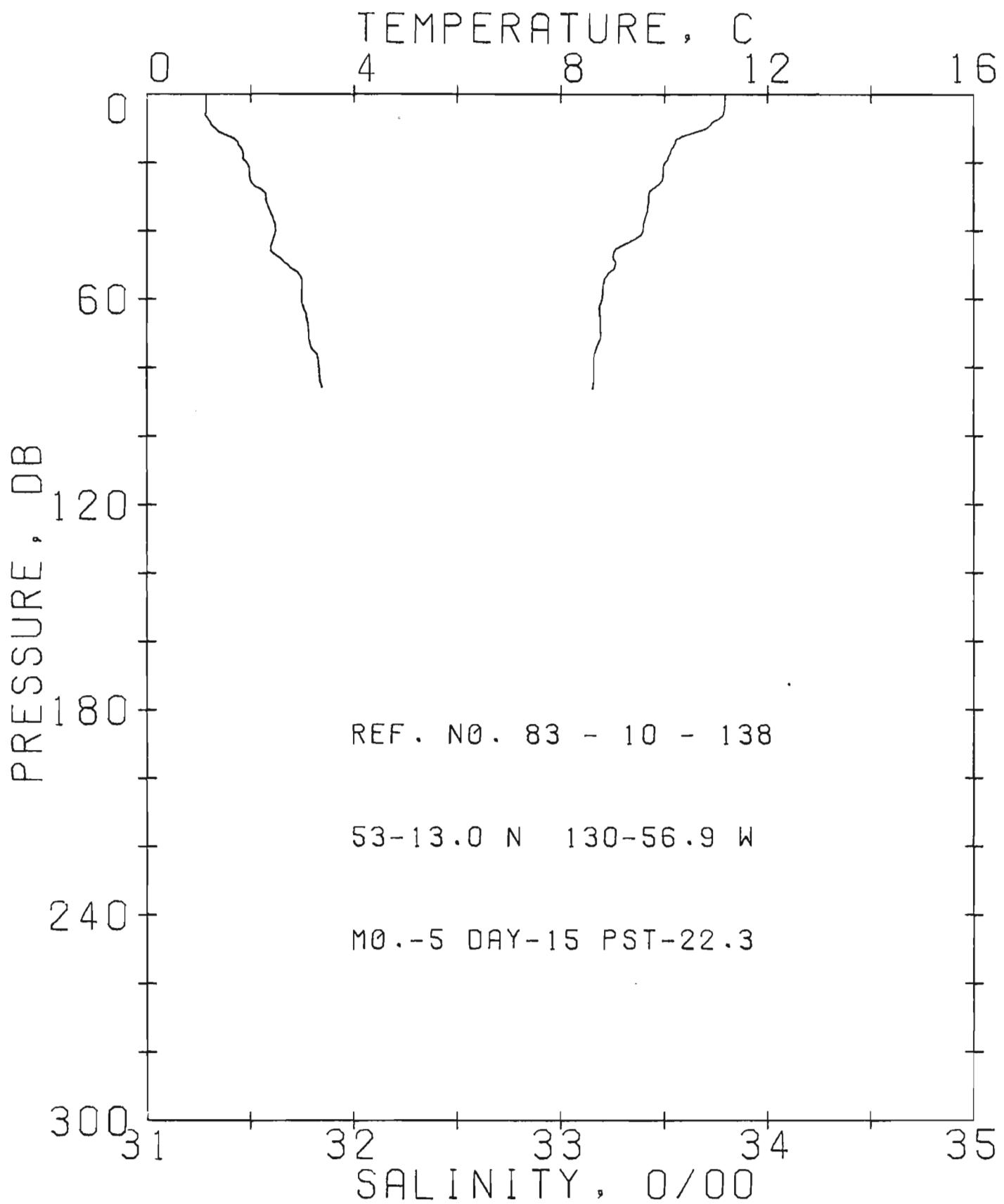
21.8 STATION W 9

RESULTS OF STP CAST 120 POINTS TAKEN FROM DIGITAL SYSTEM

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	10.44	31.20	0	23.94	397.2	.00	.00	1487.
10	10.25	31.18	10	23.96	395.8	.40	.02	1487.
20	9.66	31.23	20	24.09	383.4	.79	.08	1485.
30	8.83	31.42	30	24.37	357.2	1.16	.17	1482.
50	9.02	31.63	50	24.50	344.7	1.86	.46	1483.
75	8.65	31.87	75	24.75	321.7	2.70	1.00	1483.
100	8.04	32.33	99	25.20	279.1	3.46	1.67	1481.

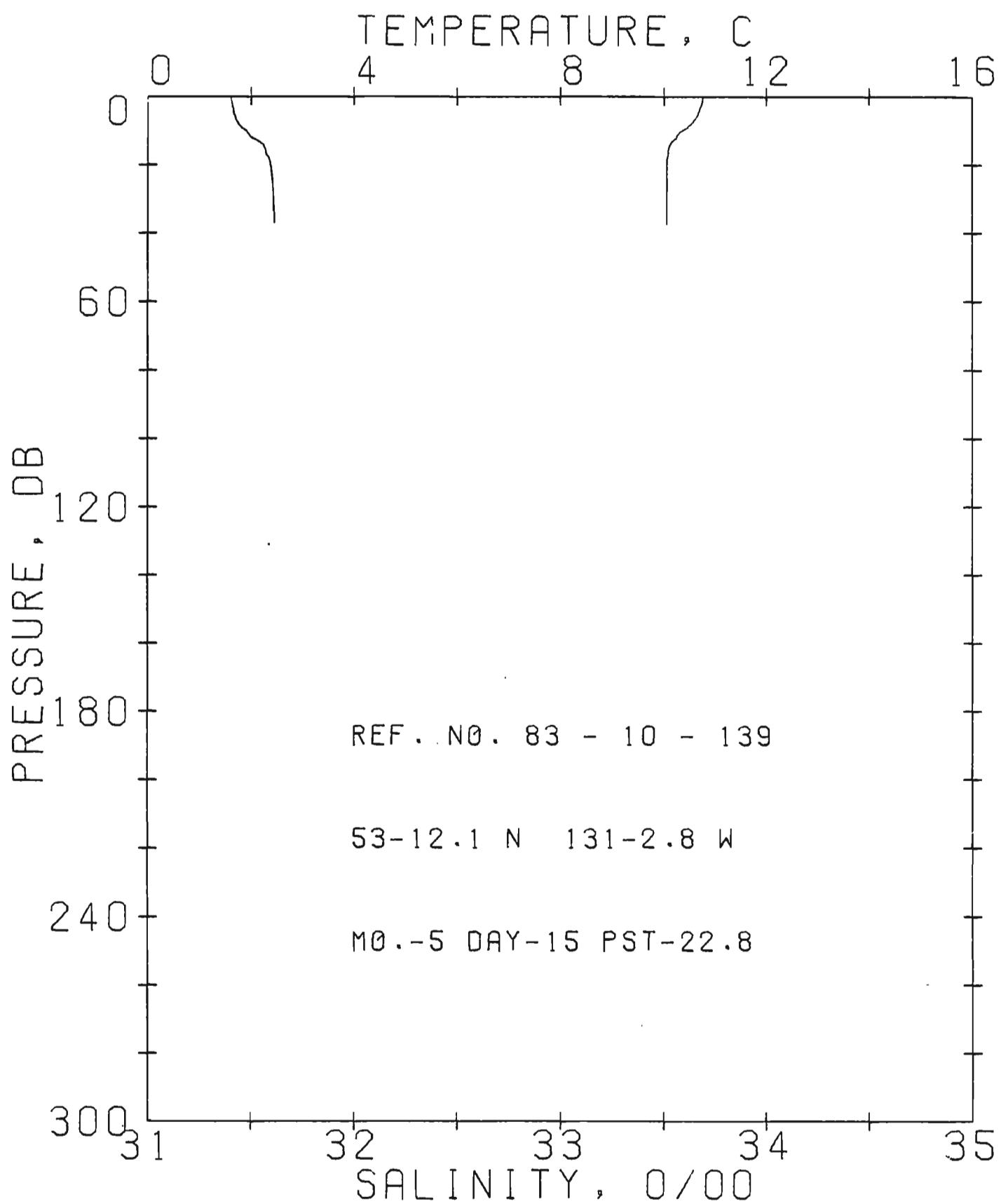
236



OFFSHORE OCEANOGRAPHY GROUP
REFERENCE NO. 83-10-138 DATE 15/ 5/83
POSITION 53-13.0N, 130-56.9W 22.3 STATION W10
RESULTS OF STP CAST 87 POINTS TAKEN FROM DIGITAL SYSTEM
GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	11.18	31.28	0	23.88	403.4	.00	.00	1490.
10	10.80	31.33	10	23.98	393.9	.40	.02	1489.
20	10.01	31.48	20	24.23	370.0	.78	.08	1486.
30	9.70	31.58	30	24.36	358.4	1.14	.17	1485.
50	9.05	31.69	50	24.54	341.0	1.85	.46	1483.
75	8.68	31.81	75	24.70	326.8	2.68	.99	1483.

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OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 83-10-139 DATE 15/ 5/83

POSITION 53-12.1N, 131- 2.8W 22.8 STATION W11

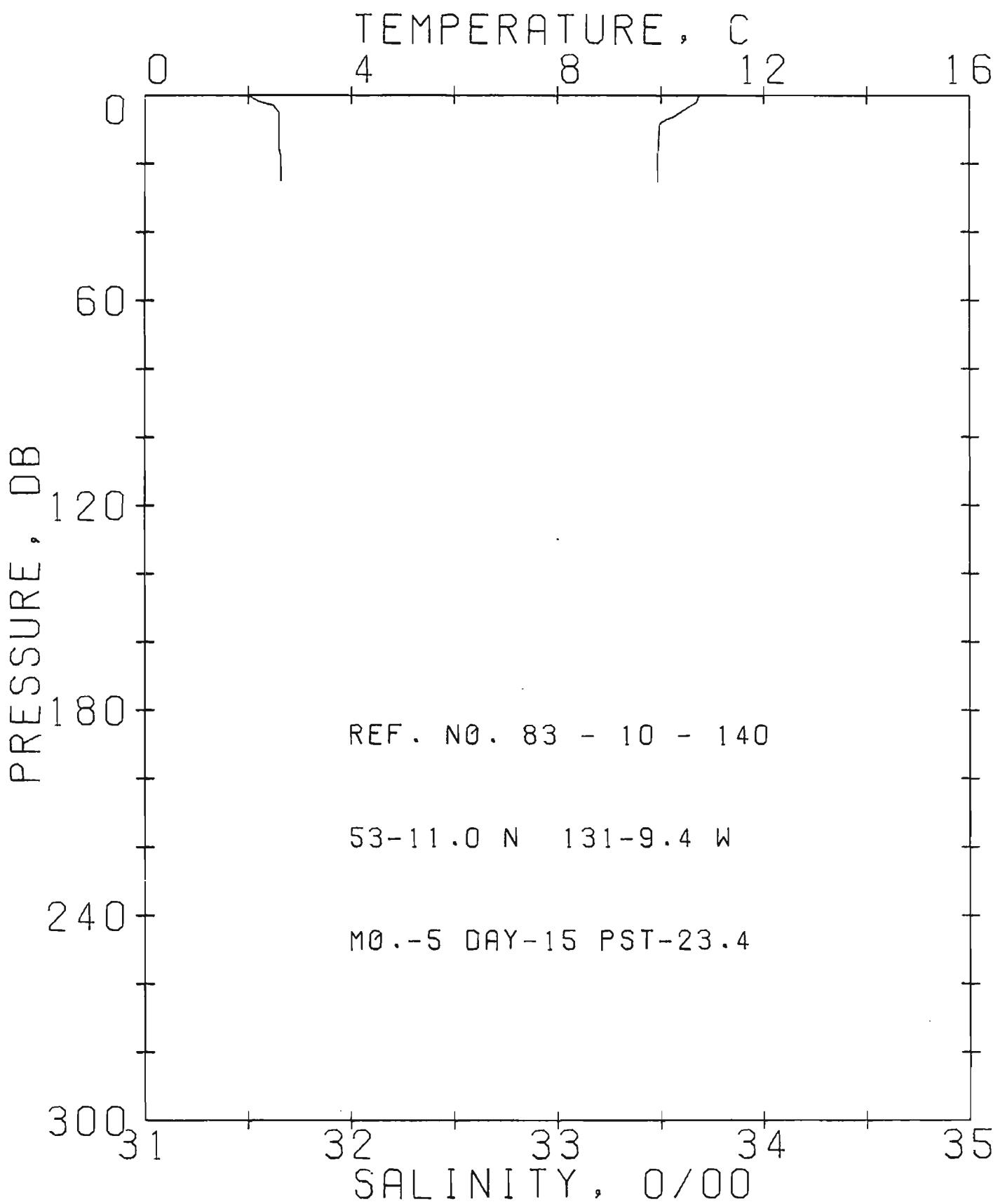
RESULTS OF STP CAST 38 POINTS TAKEN FROM DIGITAL SYSTEM

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	10.76	31.40	0	24.05	387.6	.00	.00	1489.
10	10.32	31.48	10	24.18	375.3	.38	.02	1487.
20	10.06	31.60	20	24.31	362.4	.75	.08	1487.
30	10.06	31.61	30	24.32	361.6	1.11	.17	1487.

PRES	DEPTH	TEMP	SAL	PRES	DEPTH	TEMP	SAL
0.		10.76	31.40	19.		10.06	31.60
1.		10.75	31.41	20.		10.06	31.60
2.		10.74	31.41	21.		10.06	31.60
3.		10.71	31.41	22.		10.05	31.60
4.		10.69	31.42	23.		10.05	31.60
5.		10.67	31.42	24.		10.06	31.60
6.		10.63	31.42	25.		10.06	31.61
7.		10.58	31.43	26.		10.06	31.61
8.		10.53	31.44	27.		10.06	31.61
9.		10.45	31.45	28.		10.06	31.61
10.		10.32	31.48	29.		10.06	31.61
11.		10.27	31.49	30.		10.06	31.61
12.		10.24	31.50	31.		10.06	31.61
13.		10.16	31.54	32.		10.06	31.61
14.		10.12	31.56	33.		10.06	31.61
15.		10.10	31.57	34.		10.06	31.61
16.		10.09	31.57	35.		10.06	31.62
17.		10.08	31.58	36.		10.06	31.62
18.		10.07	31.59	37.		10.06	31.62

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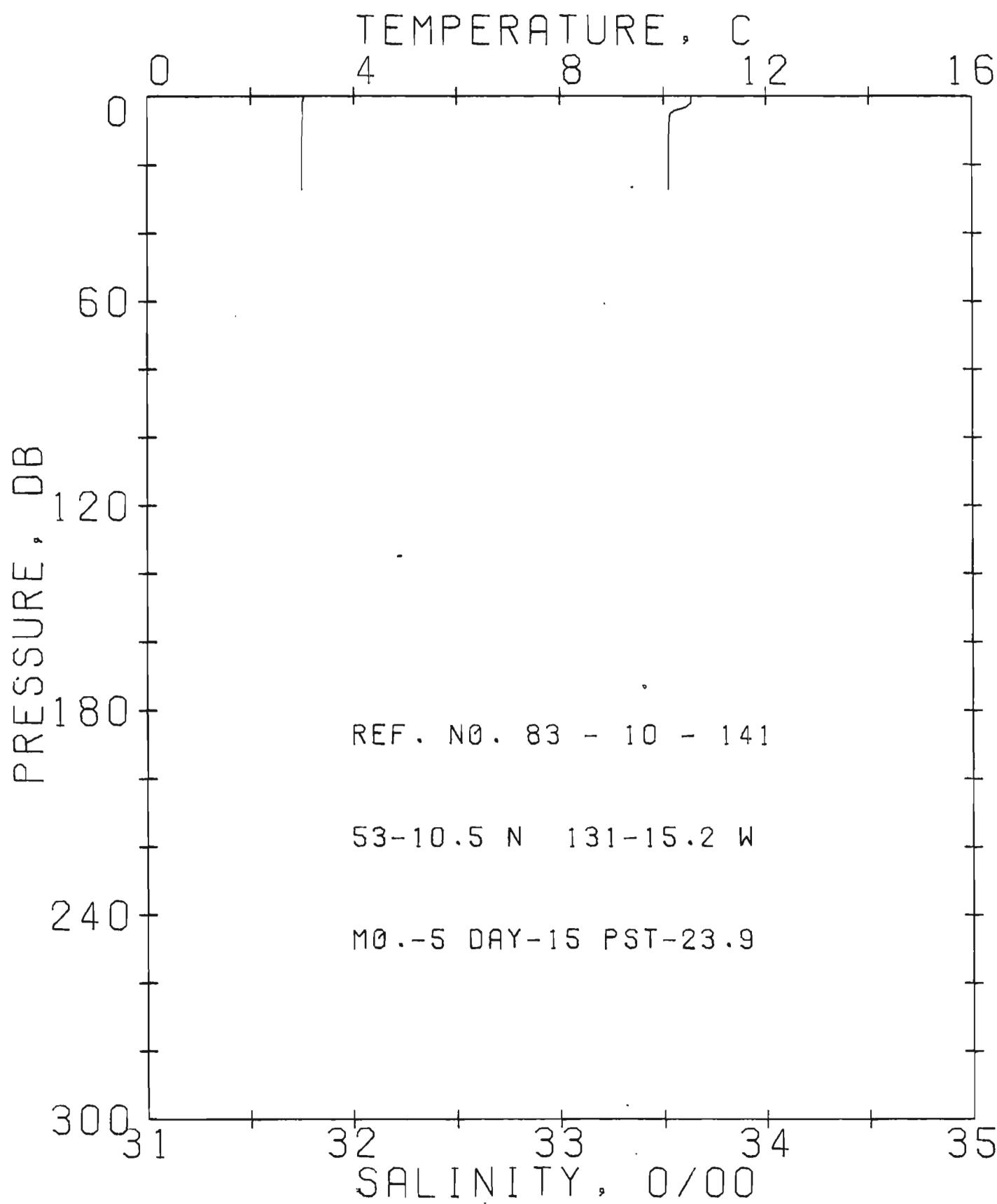


OFFSHORE OCEANOGRAPHY GROUP
 REFERENCE NO. 83-10-140 DATE 15/ 5/83
 POSITION 53-11.0N, 131- 9.4W 23.4 STATION W12
 RESULTS OF STP CAST 26 POINTS TAKEN FROM DIGITAL SYSTEM
 GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	10.75	31.50	0	24.12	380.3	.00	.00	1489.
10	9.97	31.65	10	24.37	356.9	.37	.02	1486.
20	9.94	31.66	20	24.38	355.8	.72	.07	1486.

PRES	DEPTH	TEMP	SAL	PRES	DEPTH	TEMP	SAL
0.		10.75	31.50	13.		9.96	31.65
1.		10.72	31.53	14.		9.96	31.65
2.		10.70	31.56	15.		9.95	31.65
3.		10.58	31.63	16.		9.95	31.65
4.		10.48	31.64	17.		9.94	31.66
5.		10.37	31.65	18.		9.94	31.66
6.		10.28	31.65	19.		9.94	31.66
7.		10.11	31.65	20.		9.94	31.66
8.		10.00	31.65	21.		9.94	31.66
9.		9.97	31.65	22.		9.94	31.66
10.		9.97	31.65	23.		9.94	31.66
11.		9.96	31.65	24.		9.94	31.66
12.		9.96	31.65	25.		9.94	31.66

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OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 83-10-141 DATE 15/ 5/83

POSITION 53-10.5N, 131-15.2W 23.9 STATION W13

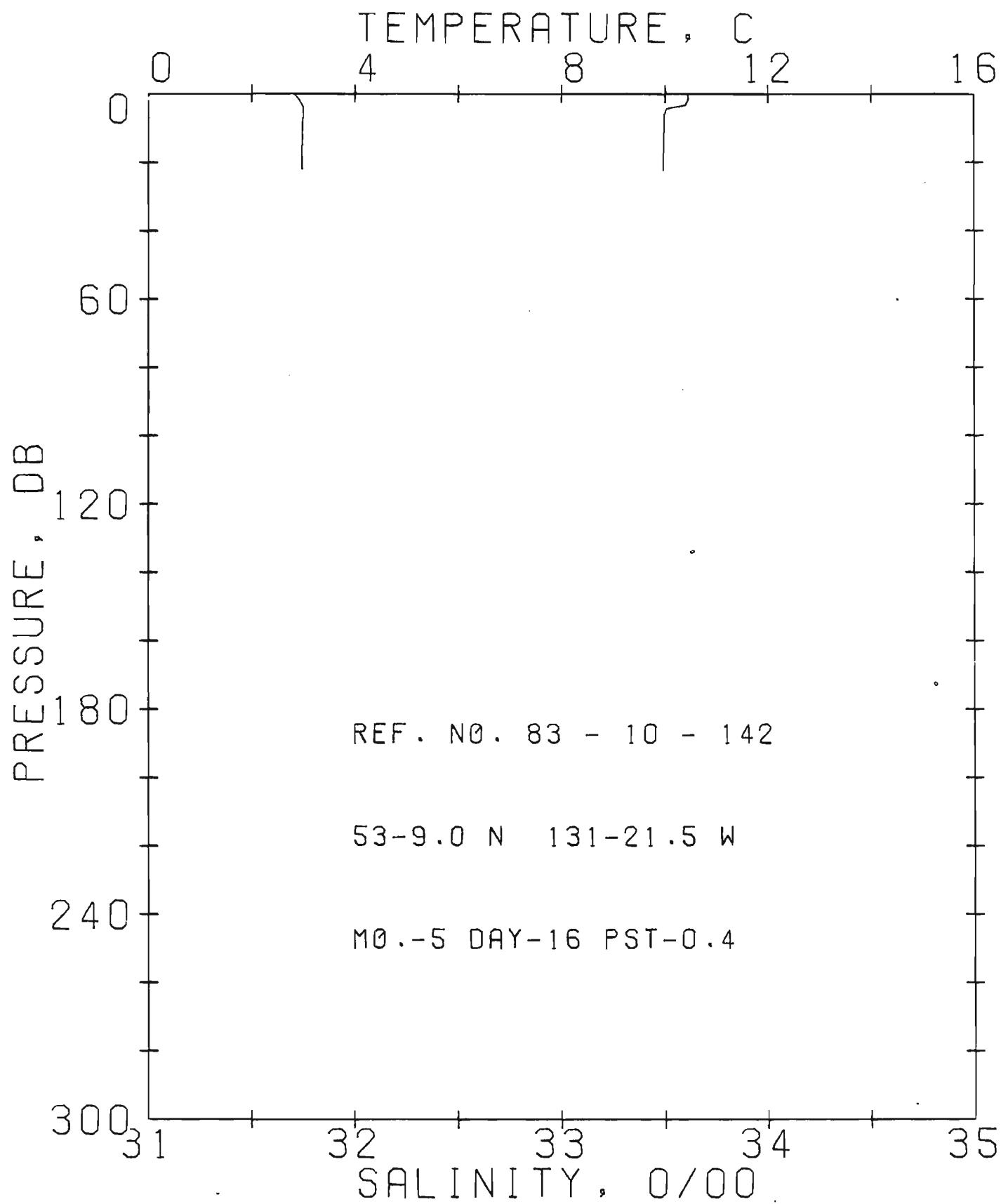
RESULTS OF STP CAST 28 POINTS TAKEN FROM DIGITAL SYSTEM

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	10.54	31.76	0	24.36	357.5	.00	.00	1488.
10	10.11	31.75	10	24.42	351.7	.35	.02	1487.
20	10.10	31.75	20	24.43	351.6	.71	.07	1487.

PRES	DEPTH	TEMP	SAL	PRES	DEPTH	TEMP	SAL
0.		10.54	31.76	14.		10.10	31.75
1.		10.55	31.76	15.		10.10	31.75
2.		10.54	31.75	16.		10.11	31.75
3.		10.45	31.75	17.		10.10	31.75
4.		10.22	31.75	18.		10.10	31.75
5.		10.13	31.76	19.		10.10	31.75
6.		10.12	31.76	20.		10.10	31.75
7.		10.12	31.76	21.		10.10	31.75
8.		10.12	31.75	22.		10.11	31.75
9.		10.12	31.75	23.		10.10	31.75
10.		10.11	31.75	24.		10.10	31.75
11.		10.11	31.75	25.		10.10	31.75
12.		10.11	31.75	26.		10.11	31.75
13.		10.11	31.75	27.		10.10	31.75

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OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 83-10-142 DATE 16/ 5/83

POSITION 53- 9.0N, 131-21.5W .4 STATION W14

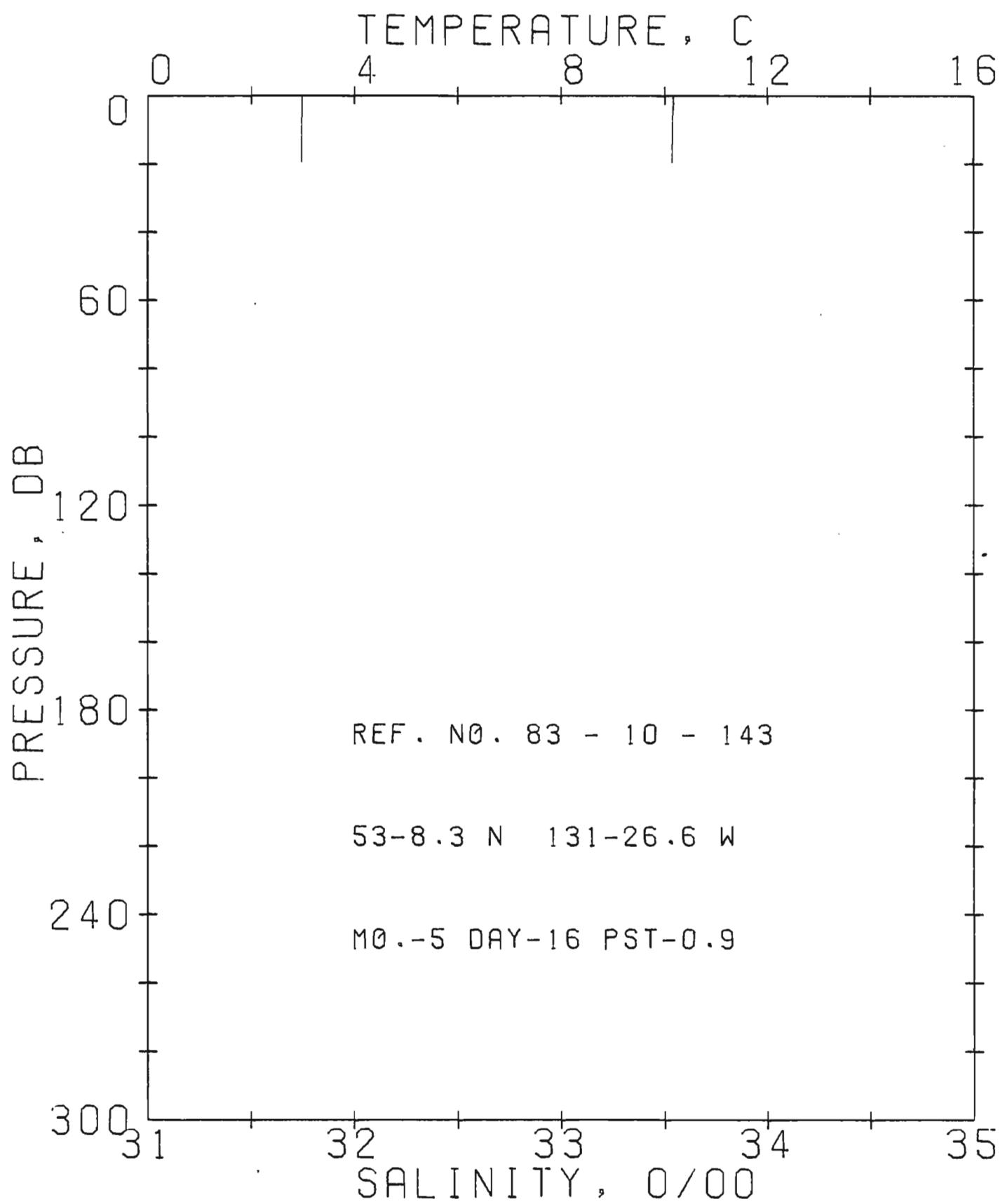
RESULTS OF STP CAST 23 POINTS TAKEN FROM DIGITAL SYSTEM

GUIDLINE WAS USED,PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	10.43	31.71	0	24.34	359.7	.00	.00	1488.
10	9.98	31.74	10	24.44	350.2	.35	.02	1486.
20	9.97	31.74	20	24.44	350.1	.70	.07	1486.

PRES	DEPTH	TEMP	SAL	PRES	DEPTH	TEMP	SAL
0.		10.43	31.71	12.		9.98	31.74
1.		10.46	31.72	13.		9.98	31.75
2.		10.43	31.74	14.		9.97	31.74
3.		10.40	31.75	15.		9.97	31.74
4.		10.03	31.75	16.		9.97	31.75
5.		10.01	31.75	17.		9.97	31.74
6.		9.99	31.75	18.		9.98	31.74
7.		9.99	31.75	19.		9.97	31.74
8.		9.99	31.75	20.		9.97	31.74
9.		9.99	31.74	21.		9.97	31.74
10.		9.98	31.74	22.		9.97	31.75
11.		9.98	31.74				

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OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 83-10-143

DATE 16/ 5/83

POSITION 53- 8.3N, 131-26.6W

.9 STATION W15

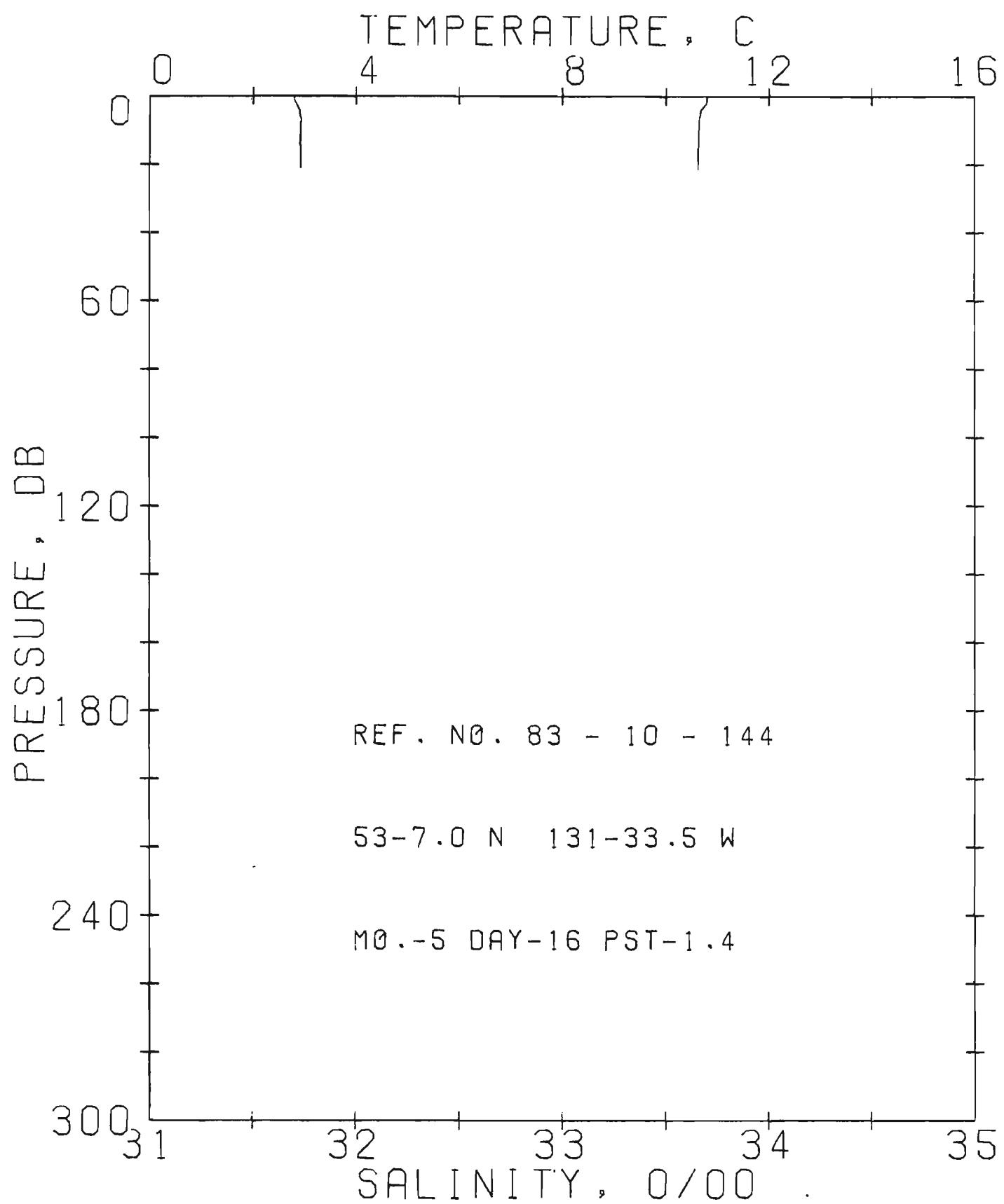
RESULTS OF STP CAST 20 POINTS TAKEN FROM DIGITAL SYSTEM

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	10.17	31.75	0	24.41	352.5	.00	.00	1487.
10	10.15	31.75	10	24.41	352.6	.35	.02	1487.
20	10.15	31.75	20	24.42	352.7	.71	.07	1487.

PRES	DEPTH	TEMP	SAL	PRES	DEPTH	TEMP	SAL
0.		10.17	31.75	10.		10.15	31.75
1.		10.17	31.75	11.		10.15	31.75
2.		10.17	31.75	12.		10.15	31.75
3.		10.17	31.75	13.		10.15	31.75
4.		10.16	31.75	14.		10.15	31.75
5.		10.15	31.75	15.		10.15	31.75
6.		10.15	31.75	16.		10.15	31.75
7.		10.16	31.75	17.		10.15	31.75
8.		10.16	31.75	18.		10.15	31.75
9.		10.16	31.75	19.		10.15	31.75

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REFERENCE NO. 83-10-144 DATE 16/ 5/83

POSITION 53- 7.0N, 131-33.5W 1.4 STATION W16

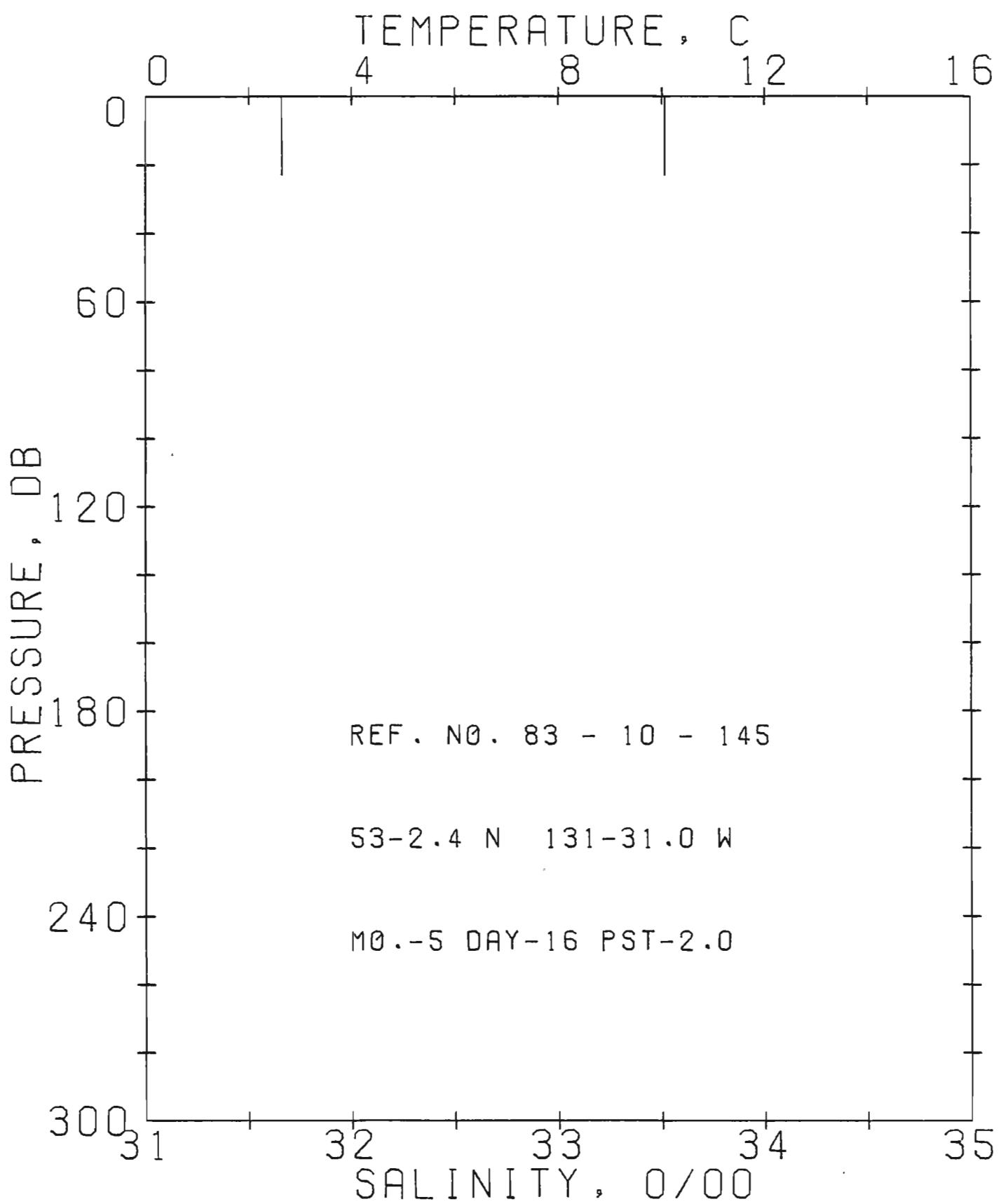
RESULTS OF STP CAST 22 POINTS TAKEN FROM DIGITAL SYSTEM

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	10.80	31.70	0	24.27	366.2	.00	.00	1489.
10	10.63	31.73	10	24.32	361.4	.36	.02	1489.
20	10.62	31.73	20	24.33	361.2	.72	.07	1489.

PRES	DEPTH	TEMP	SAL	PRES	DEPTH	TEMP	SAL
0.		10.80	31.70	11.		10.63	31.74
1.		10.80	31.70	12.		10.63	31.73
2.		10.79	31.71	13.		10.63	31.73
3.		10.73	31.72	14.		10.64	31.73
4.		10.67	31.73	15.		10.62	31.74
5.		10.68	31.73	16.		10.62	31.73
6.		10.65	31.74	17.		10.62	31.73
7.		10.64	31.74	18.		10.62	31.73
8.		10.64	31.73	19.		10.62	31.73
9.		10.64	31.73	20.		10.62	31.73
10.		10.63	31.73	21.		10.62	31.73

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OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 83-10-145 DATE 16/ 5/83

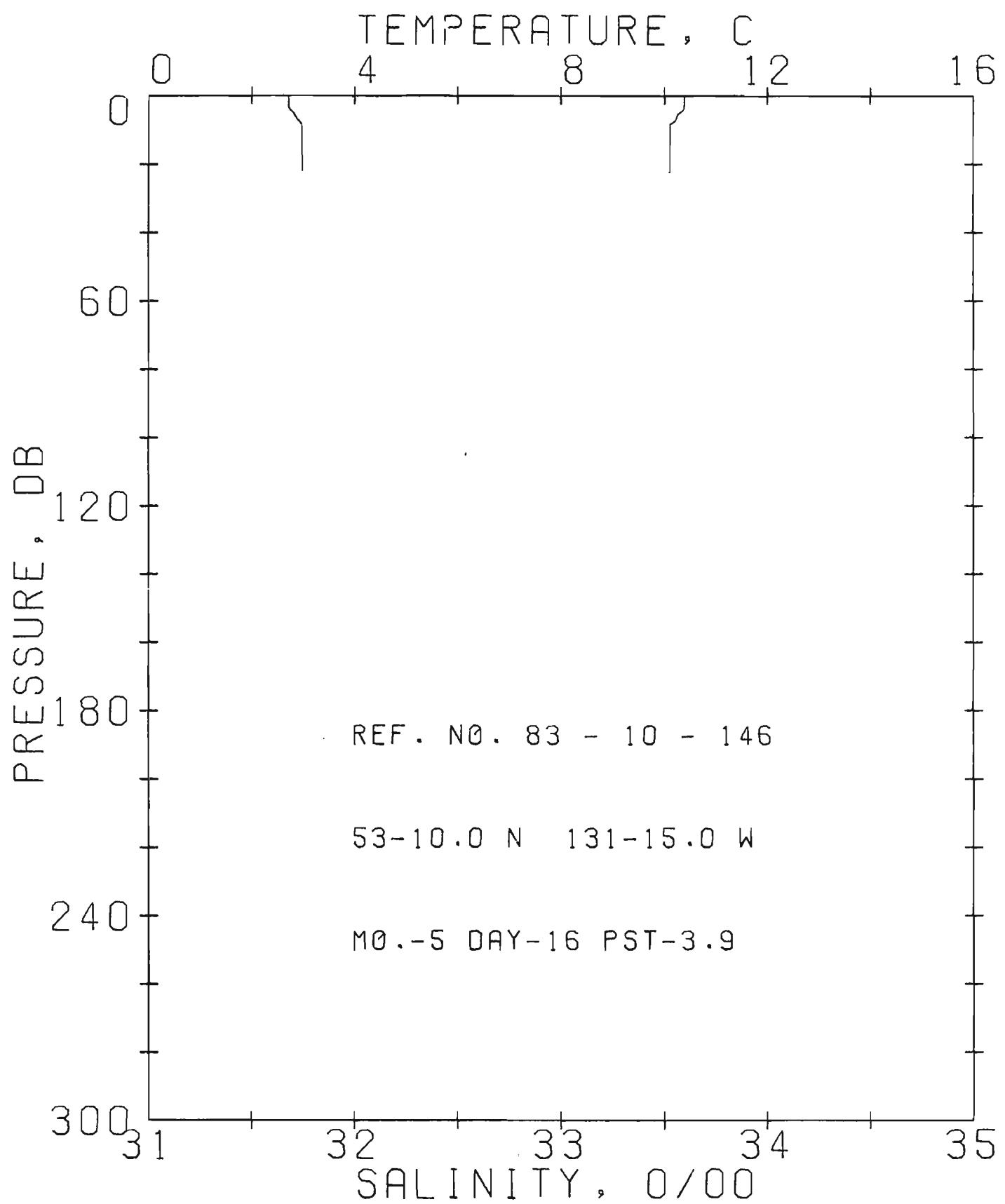
POSITION 53- 2.4N, 131-31.0W 2.0 STATION W17

RESULTS OF STP CAST 24 POINTS TAKEN FROM DIGITAL SYSTEM

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	10.06	31.66	0	24.36	357.4	.00	.00	1486.
10	10.06	31.66	10	24.36	357.6	.36	.02	1486.
20	10.06	31.66	20	24.36	357.6	.72	.07	1487.

PRES	DEPTH	TEMP	SAL	PRES	DEPTH	TEMP	SAL
0.		10.06	31.66	12.		10.06	31.66
1.		10.06	31.66	13.		10.06	31.66
2.		10.06	31.66	14.		10.06	31.66
3.		10.06	31.66	15.		10.06	31.66
4.		10.06	31.66	16.		10.06	31.66
5.		10.06	31.66	17.		10.06	31.66
6.		10.06	31.66	18.		10.06	31.66
7.		10.06	31.66	19.		10.06	31.66
8.		10.06	31.66	20.		10.06	31.66
9.		10.06	31.66	21.		10.06	31.66
10.		10.06	31.66	22.		10.06	31.66
11.		10.06	31.66	23.		10.06	31.66



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 83-10-146 DATE 16/ 5/83

POSITION 53-10.0N, 131-15.0W 3.9 STATION W13

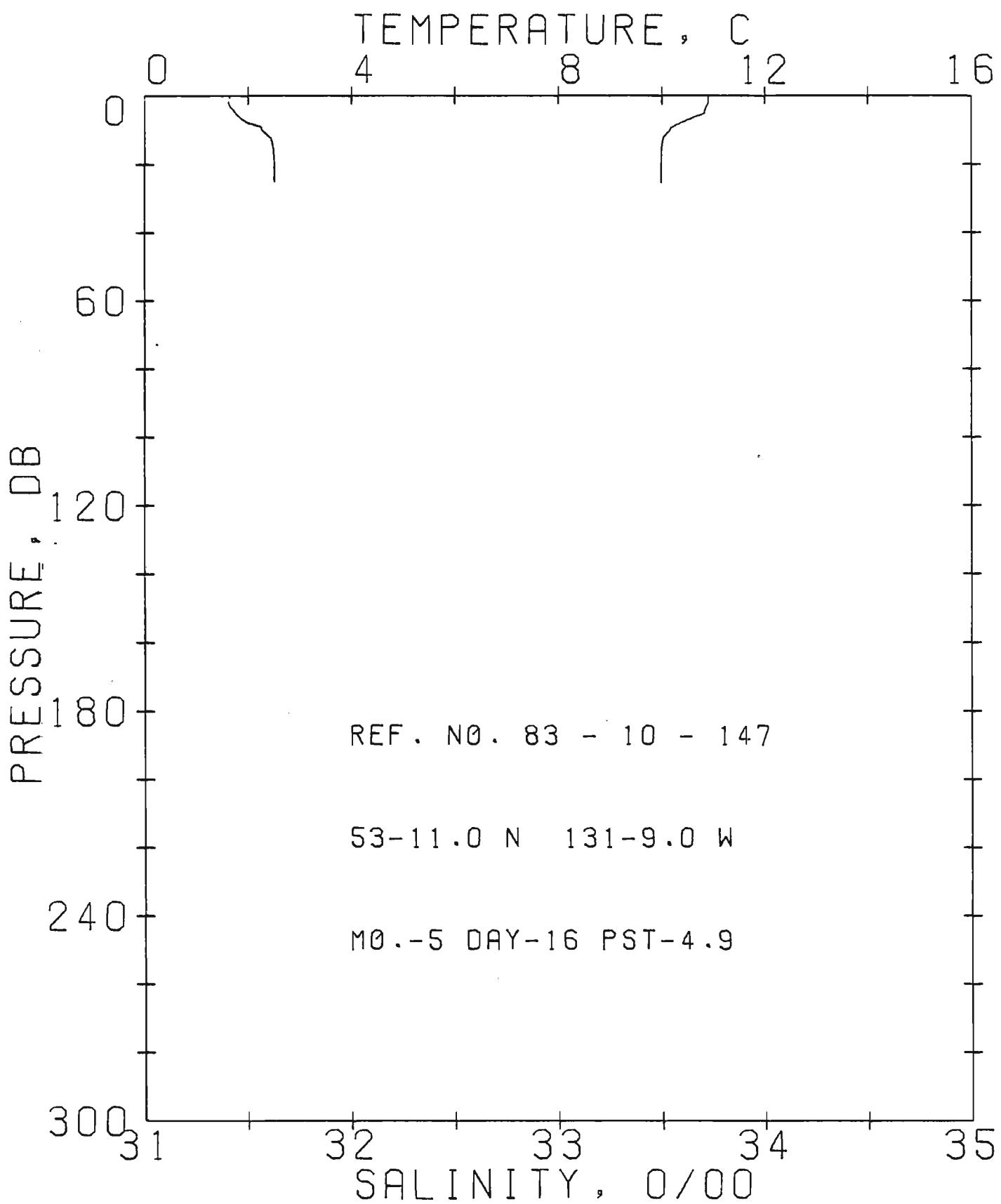
RESULTS OF STP CAST 23 POINTS TAKEN FROM DIGITAL SYSTEM

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	10.38	31.68	0	24.32	361.1	.00	.00	1488.
10	10.11	31.74	10	24.42	352.2	.36	.02	1487.
20	10.11	31.75	20	24.42	352.1	.71	.07	1487.

PRES	DEPTH	TEMP	SAL	PRES	DEPTH	TEMP	SAL
0.		10.38	31.68	12.		10.11	31.74
1.		10.38	31.68	13.		10.11	31.74
2.		10.39	31.68	14.		10.11	31.75
3.		10.38	31.68	15.		10.11	31.75
4.		10.37	31.69	16.		10.11	31.75
5.		10.27	31.71	17.		10.11	31.75
6.		10.24	31.71	18.		10.11	31.75
7.		10.22	31.73	19.		10.11	31.75
8.		10.12	31.74	20.		10.11	31.75
9.		10.11	31.74	21.		10.11	31.75
10.		10.11	31.74	22.		10.11	31.75
11.		10.11	31.74				

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OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 83-10-147 DATE 16/ 5/83

POSITION 53-11.0N, 131- 9.0W 4.9 STATION W12

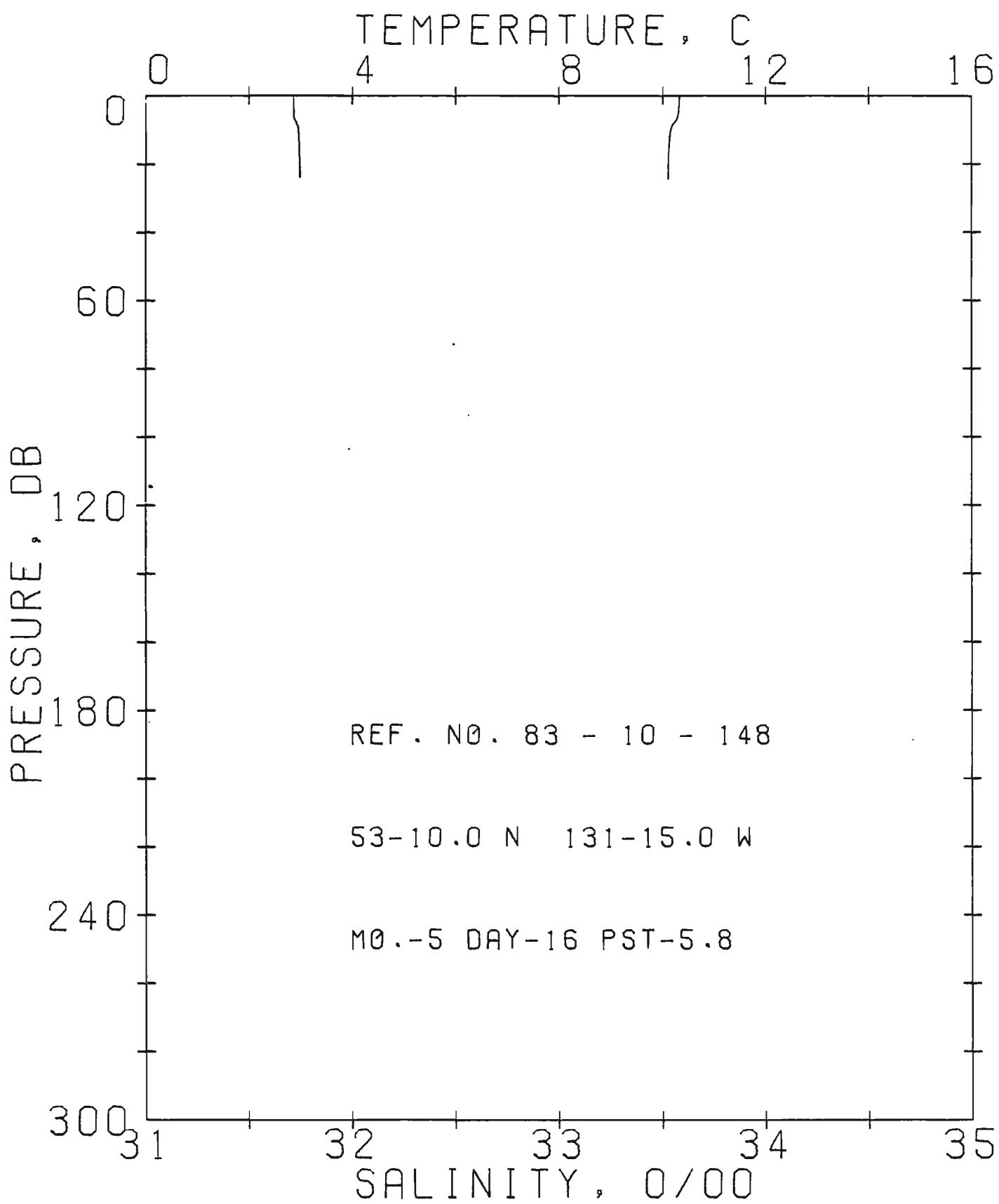
RESULTS OF STP CAST 26 POINTS TAKEN FROM DIGITAL SYSTEM

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	10.90	31.41	0	24.03	389.3	.00	.00	1489.
10	10.15	31.57	10	24.28	365.8	.38	.02	1487.
20	9.99	31.63	20	24.35	358.8	.74	.07	1486.

PRES	DEPTH	TEMP	SAL	PRES	DEPTH	TEMP	SAL
0.		10.90	31.41	13.		10.02	31.62
1.		10.90	31.41	14.		10.01	31.62
2.		10.90	31.40	15.		10.00	31.62
3.		10.86	31.41	16.		9.99	31.63
4.		10.84	31.43	17.		9.99	31.63
5.		10.83	31.44	18.		9.99	31.63
6.		10.64	31.46	19.		9.99	31.63
7.		10.46	31.48	20.		9.99	31.63
8.		10.32	31.50	21.		9.99	31.63
9.		10.19	31.57	22.		9.99	31.63
10.		10.15	31.57	23.		9.99	31.63
11.		10.09	31.59	24.		9.99	31.63
12.		10.04	31.61	25.		9.99	31.63

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OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 83-10-148 DATE 16/ 5/83

POSITION 53-10.0N, 131-15.0W 5.8 STATION W13

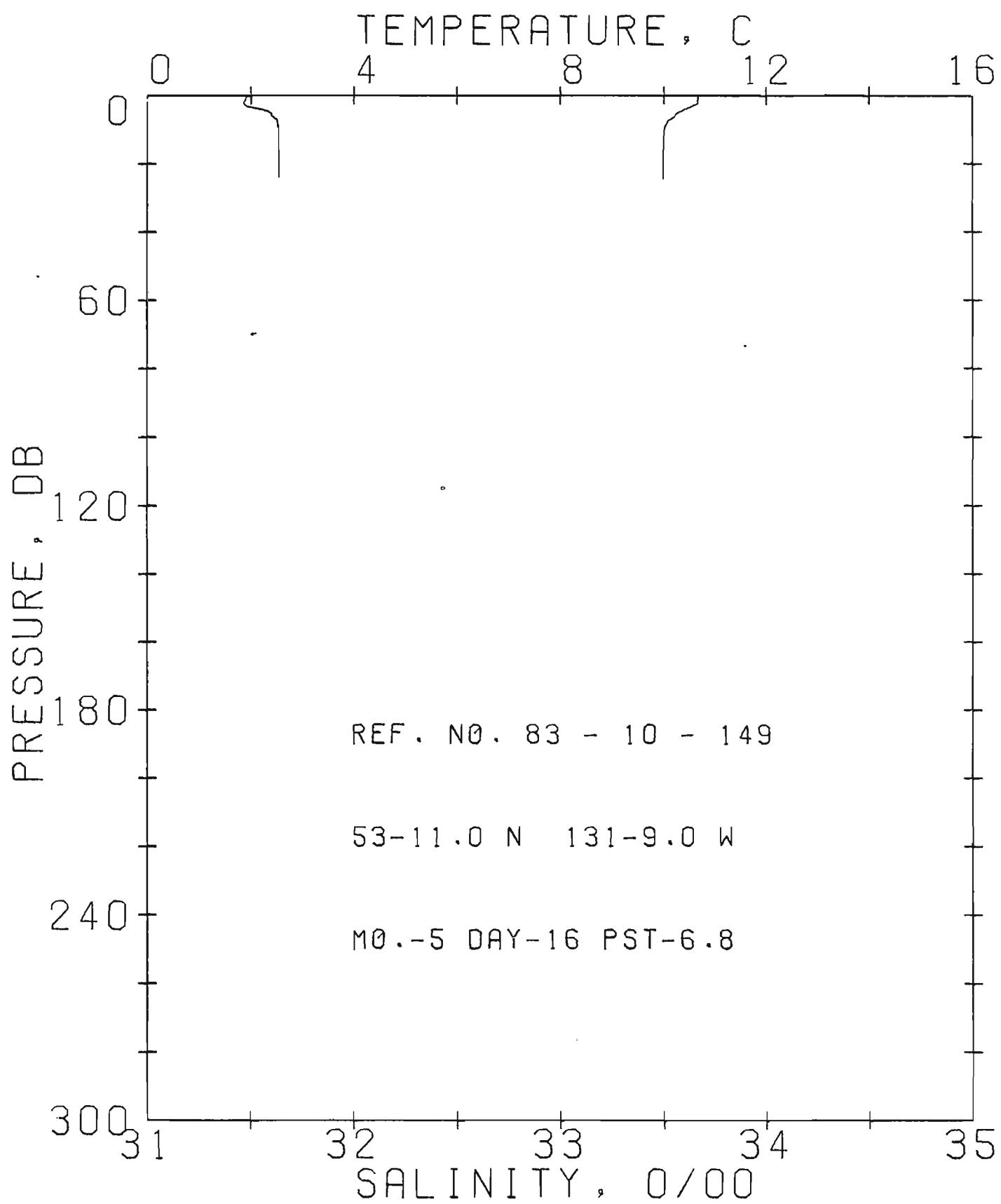
RESULTS OF STP CAST 25 POINTS TAKEN FROM DIGITAL SYSTEM

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	10.33	31.72	0	24.36	357.4	.00	.00	1487.
10	10.16	31.74	10	24.41	353.0	.36	.02	1487.
20	10.11	31.75	20	24.42	352.0	.71	.07	1487.

PRES	DEPTH	TEMP	SAL	PRES	DEPTH	TEMP	SAL
0.		10.33	31.72	13.		10.14	31.74
1.		10.33	31.72	14.		10.13	31.74
2.		10.32	31.72	15.		10.13	31.75
3.		10.32	31.72	16.		10.13	31.75
4.		10.32	31.72	17.		10.12	31.75
5.		10.31	31.72	18.		10.12	31.75
6.		10.30	31.72	19.		10.12	31.75
7.		10.27	31.73	20.		10.11	31.75
8.		10.21	31.73	21.		10.11	31.75
9.		10.18	31.74	22.		10.11	31.75
10.		10.16	31.74	23.		10.11	31.75
11.		10.15	31.74	24.		10.11	31.75
12.		10.15	31.74				

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OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 83-10-149 DATE 16/ 5/83

POSITION 53-11.0N, 131- 9.0W 6.8 STATION W12

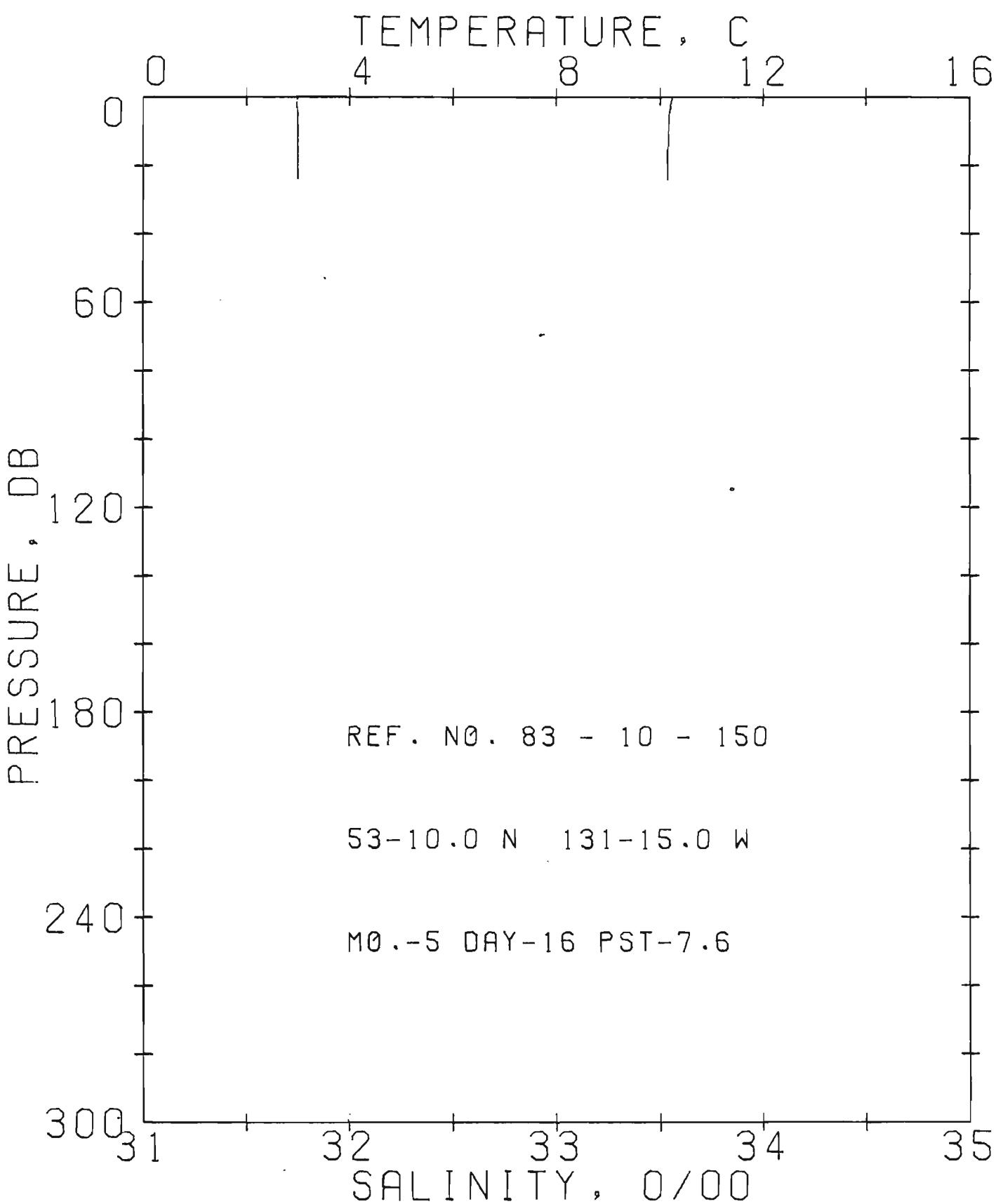
RESULTS OF STP CAST 25 POINTS TAKEN FROM DIGITAL SYSTEM

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	10.66	31.48	0	24.12	380.4	.00	.00	1488.
10	10.01	31.64	10	24.36	358.2	.37	.02	1486.
20	9.99	31.64	20	24.36	358.4	.73	.07	1486.

PRES	DEPTH	TEMP	SAL	PRES	DEPTH	TEMP	SAL
0.		10.66	31.48	13.		9.99	31.64
1.		10.67	31.47	14.		10.00	31.64
2.		10.68	31.46	15.		10.00	31.64
3.		10.53	31.48	16.		10.00	31.64
4.		10.38	31.56	17.		10.00	31.64
5.		10.25	31.60	18.		10.00	31.64
6.		10.22	31.61	19.		10.00	31.64
7.		10.10	31.63	20.		9.99	31.64
8.		10.07	31.63	21.		9.99	31.64
9.		10.02	31.63	22.		9.99	31.64
10.		10.01	31.64	23.		9.99	31.64
11.		10.01	31.64	24.		9.99	31.64
12.		10.00	31.64				

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OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 83-10-150 DATE 16/ 5/83

POSITION 53-10.0N, 131-15.0W 7.6 STATION W13

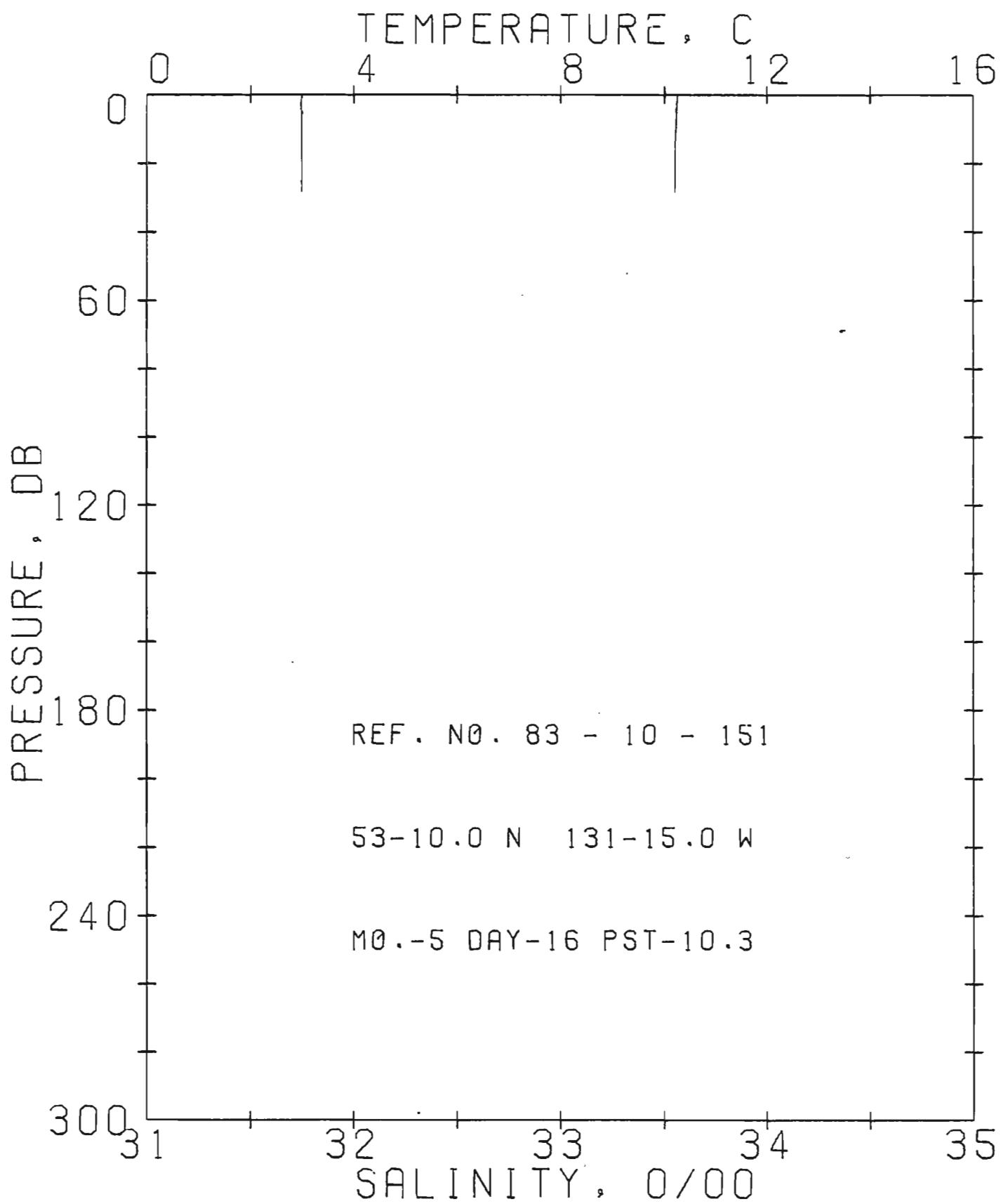
RESULTS OF STP CAST 25 POINTS TAKEN FROM DIGITAL SYSTEM

GUIDELINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	10.24	31.75	0	24.40	353.7	.00	.00	1487.
10	10.16	31.75	10	24.42	352.5	.35	.02	1487.
20	10.15	31.75	20	24.42	352.6	.71	.07	1487.

PRES	DEPTH	TEMP	SAL	PRES	DEPTH	TEMP	SAL
0.		10.24	31.75	13.		10.17	31.75
1.		10.22	31.75	14.		10.16	31.75
2.		10.20	31.74	15.		10.15	31.75
3.		10.21	31.75	16.		10.15	31.75
4.		10.19	31.75	17.		10.15	31.75
5.		10.18	31.75	18.		10.15	31.75
6.		10.18	31.75	19.		10.15	31.75
7.		10.17	31.75	20.		10.15	31.75
8.		10.16	31.75	21.		10.15	31.75
9.		10.16	31.75	22.		10.15	31.75
10.		10.16	31.75	23.		10.15	31.75
11.		10.17	31.75	24.		10.15	31.75
12.		10.17	31.75				

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OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 83-10-151 DATE 16/ 5/83

POSITION 53-10.0N, 131-15.0W 10.3 STATION W13

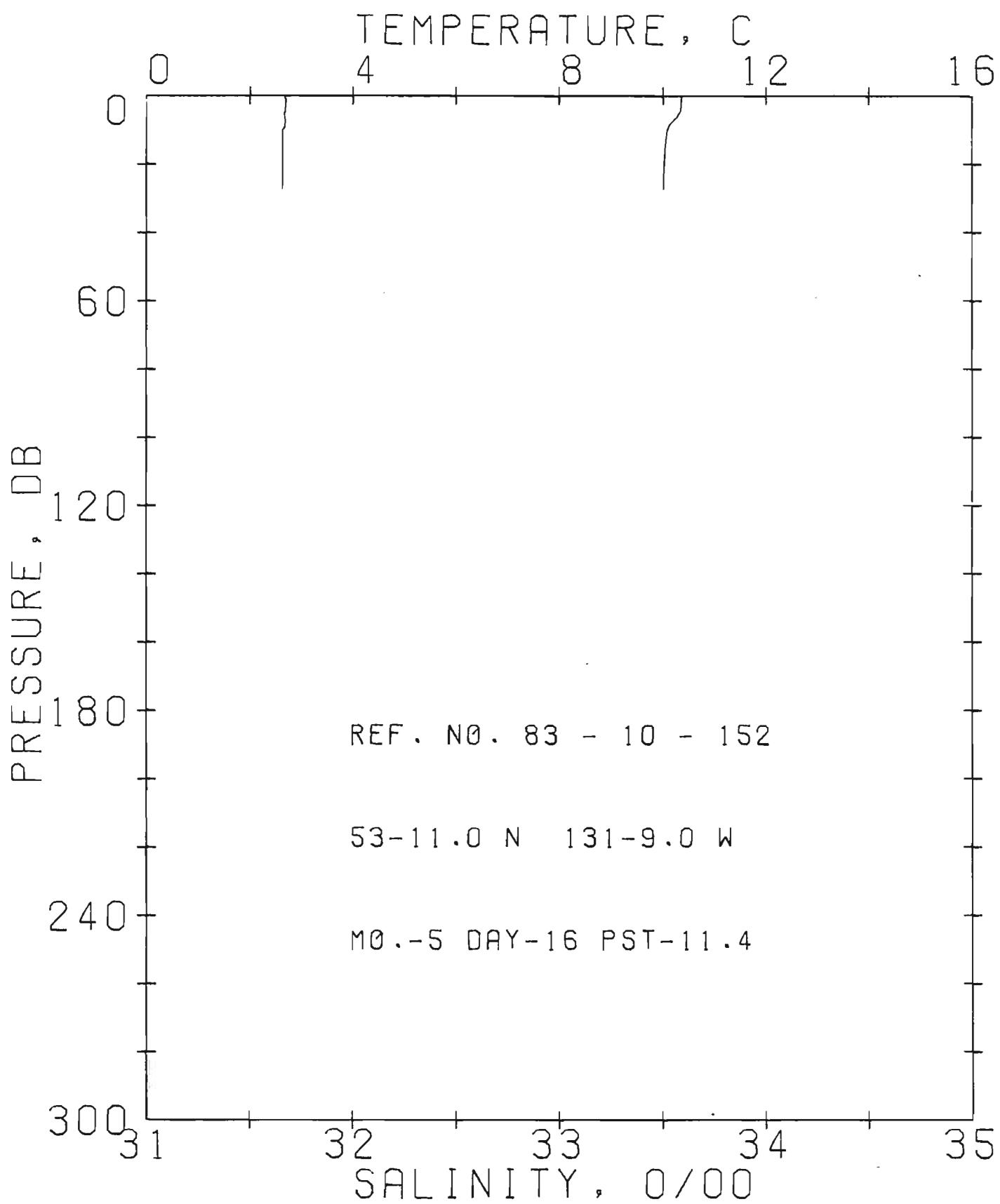
RESULTS OF STP CAST 29 POINTS TAKEN FROM DIGITAL SYSTEM

GUIDELINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	10.26	31.75	0	24.40	353.8	.00	.00	1487.
10	10.23	31.75	10	24.40	353.6	.35	.02	1487.
20	10.21	31.75	20	24.41	353.3	.71	.07	1487.

PRES	DEPTH	TEMP	SAL	PRES	DEPTH	TEMP	SAL
0.		10.26	31.75	15.		10.21	31.75
1.		10.26	31.75	16.		10.21	31.75
2.		10.25	31.75	17.		10.21	31.75
3.		10.25	31.74	18.		10.21	31.75
4.		10.23	31.74	19.		10.21	31.75
5.		10.23	31.75	20.		10.21	31.75
6.		10.24	31.75	21.		10.21	31.75
7.		10.24	31.75	22.		10.21	31.75
8.		10.24	31.75	23.		10.21	31.75
9.		10.23	31.75	24.		10.20	31.75
10.		10.23	31.75	25.		10.20	31.75
11.		10.22	31.75	26.		10.20	31.75
12.		10.21	31.75	27.		10.20	31.75
13.		10.21	31.75	28.		10.21	31.75
14.		10.21	31.75				

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REFERENCE NO. 83-10-152 DATE 16/ 5/83

POSITION 53-11.0N, 131- 9.0W 11.4 STATION W12

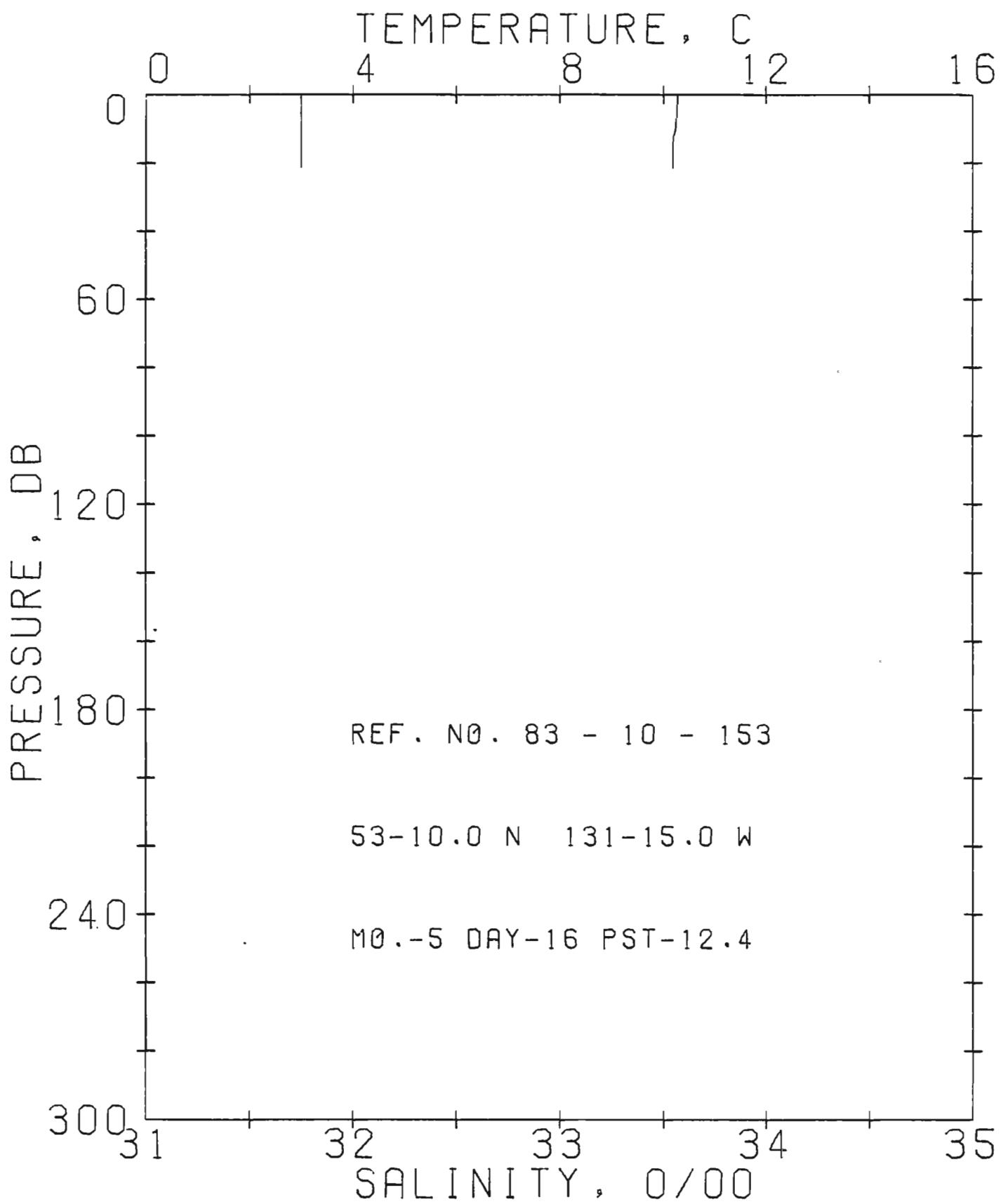
RESULTS OF STP CAST 28 POINTS TAKEN FROM DIGITAL SYSTEM

GUIDELINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	10.36	31.67	0	24.32	361.4	.00	.00	1487.
10	10.08	31.66	10	24.36	358.1	.36	.02	1487.
20	10.03	31.66	20	24.37	357.3	.72	.07	1487.

PRES	DEPTH	TEMP	SAL	PRES	DEPTH	TEMP	SAL
0.		10.36	31.67	14.		10.06	31.66
1.		10.36	31.68	15.		10.05	31.66
2.		10.35	31.68	16.		10.04	31.66
3.		10.35	31.68	17.		10.04	31.66
4.		10.35	31.67	18.		10.04	31.66
5.		10.31	31.67	19.		10.03	31.66
6.		10.28	31.67	20.		10.03	31.66
7.		10.21	31.67	21.		10.03	31.66
8.		10.14	31.67	22.		10.02	31.66
9.		10.11	31.67	23.		10.01	31.66
10.		10.08	31.66	24.		10.02	31.66
11.		10.08	31.66	25.		10.01	31.66
12.		10.07	31.66	26.		10.01	31.66
13.		10.06	31.66	27.		10.01	31.66

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OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 83-10-153 DATE 16/ 5/83

POSITION 53-10.0N, 131-15.0W 12.4 STATION W13

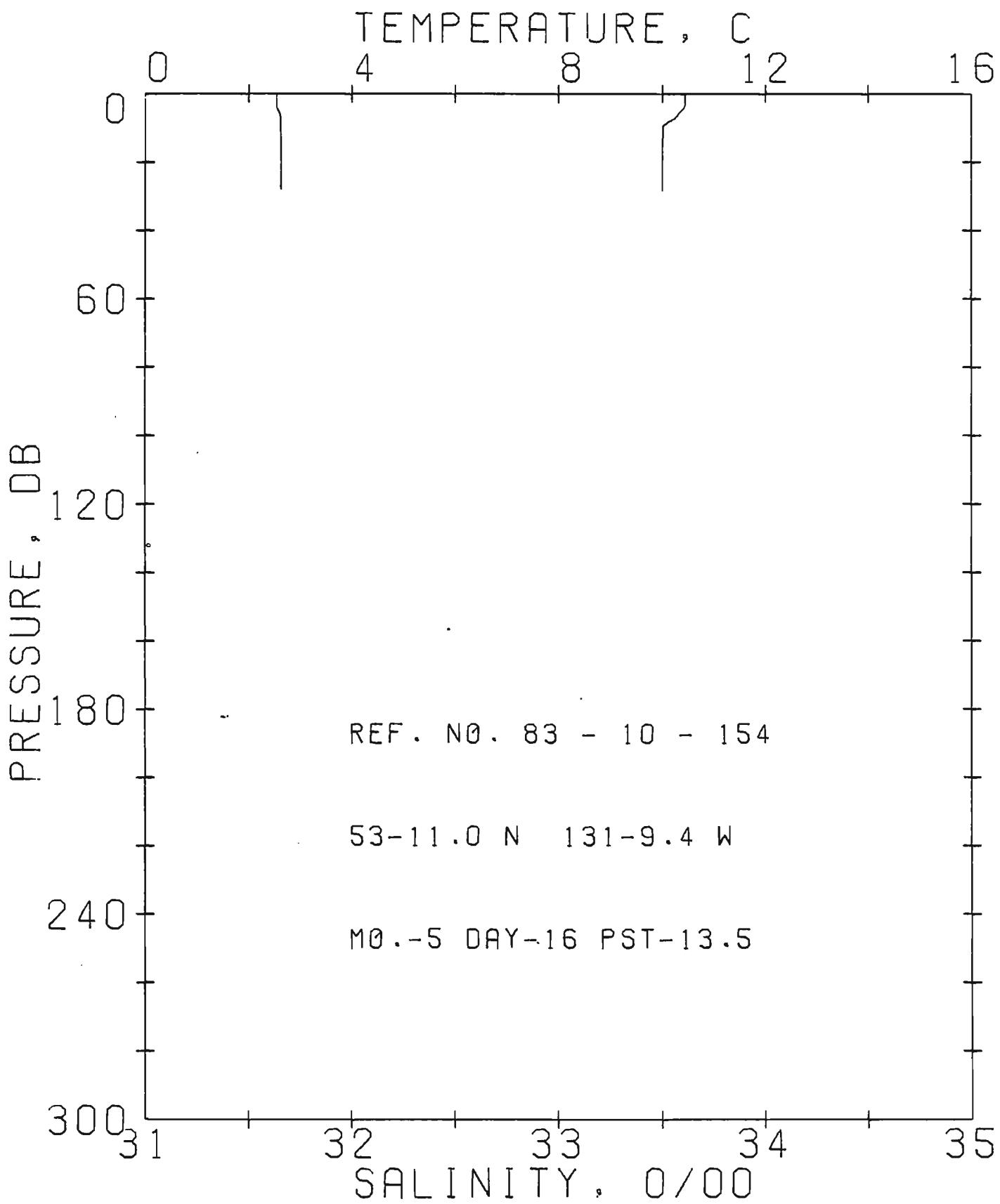
RESULTS OF STP CAST 22 POINTS TAKEN FROM DIGITAL SYSTEM

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	10.28	31.75	0	24.40	354.0	.00	.00	1487.
10	10.24	31.75	10	24.41	353.5	.35	.02	1487.
20	10.19	31.75	20	24.41	353.0	.71	.07	1487.

PRES	DEPTH	TEMP	SAL	PRES	DEPTH	TEMP	SAL
0.		10.28	31.75	11.		10.22	31.75
1.		10.28	31.75	12.		10.20	31.75
2.		10.28	31.75	13.		10.20	31.75
3.		10.27	31.75	14.		10.19	31.75
4.		10.26	31.75	15.		10.19	31.75
5.		10.27	31.75	16.		10.19	31.75
6.		10.26	31.75	17.		10.19	31.75
7.		10.26	31.75	18.		10.19	31.75
8.		10.25	31.75	19.		10.19	31.75
9.		10.25	31.75	20.		10.19	31.75
10.		10.24	31.75	21.		10.19	31.75

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REFERENCE NO. 83-10-154 DATE 16/ 5/83

POSITION 53-11.0N, 131- 9.4W 13.5 STATION W12

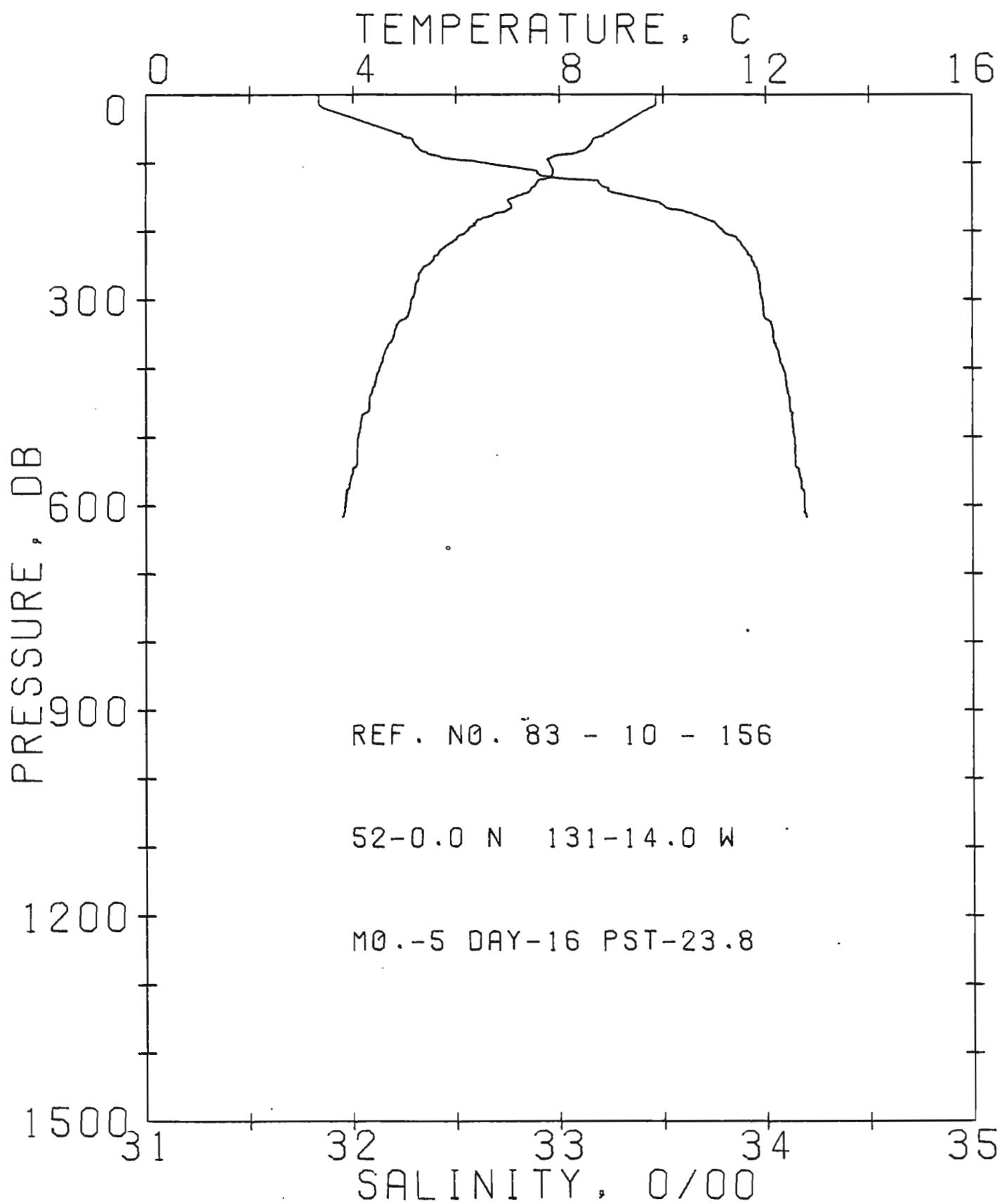
RESULTS OF STP CAST 29 POINTS TAKEN FROM DIGITAL SYSTEM

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	10.44	31.64	0	24.28	365.0	.00	.00	1488.
10	10.02	31.66	10	24.37	357.1	.36	.02	1486.
20	10.00	31.66	20	24.37	356.8	.72	.07	1486.

PRES	DEPTH	TEMP	SAL	PRES	DEPTH	TEMP	SAL
0.		10.44	31.64	15.		10.00	31.66
1.		10.44	31.63	16.		10.00	31.66
2.		10.44	31.64	17.		10.00	31.66
3.		10.45	31.64	18.		10.00	31.66
4.		10.42	31.64	19.		10.00	31.66
5.		10.35	31.65	20.		10.00	31.66
6.		10.30	31.66	21.		10.00	31.66
7.		10.25	31.66	22.		10.00	31.66
8.		10.12	31.66	23.		10.00	31.66
9.		10.02	31.66	24.		10.00	31.66
10.		10.02	31.66	25.		10.00	31.66
11.		10.01	31.66	26.		10.00	31.66
12.		10.01	31.66	27.		10.00	31.66
13.		10.01	31.66	28.		10.00	31.66
14.		10.01	31.66				

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OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 83-10-156 DATE 16/ 5/83

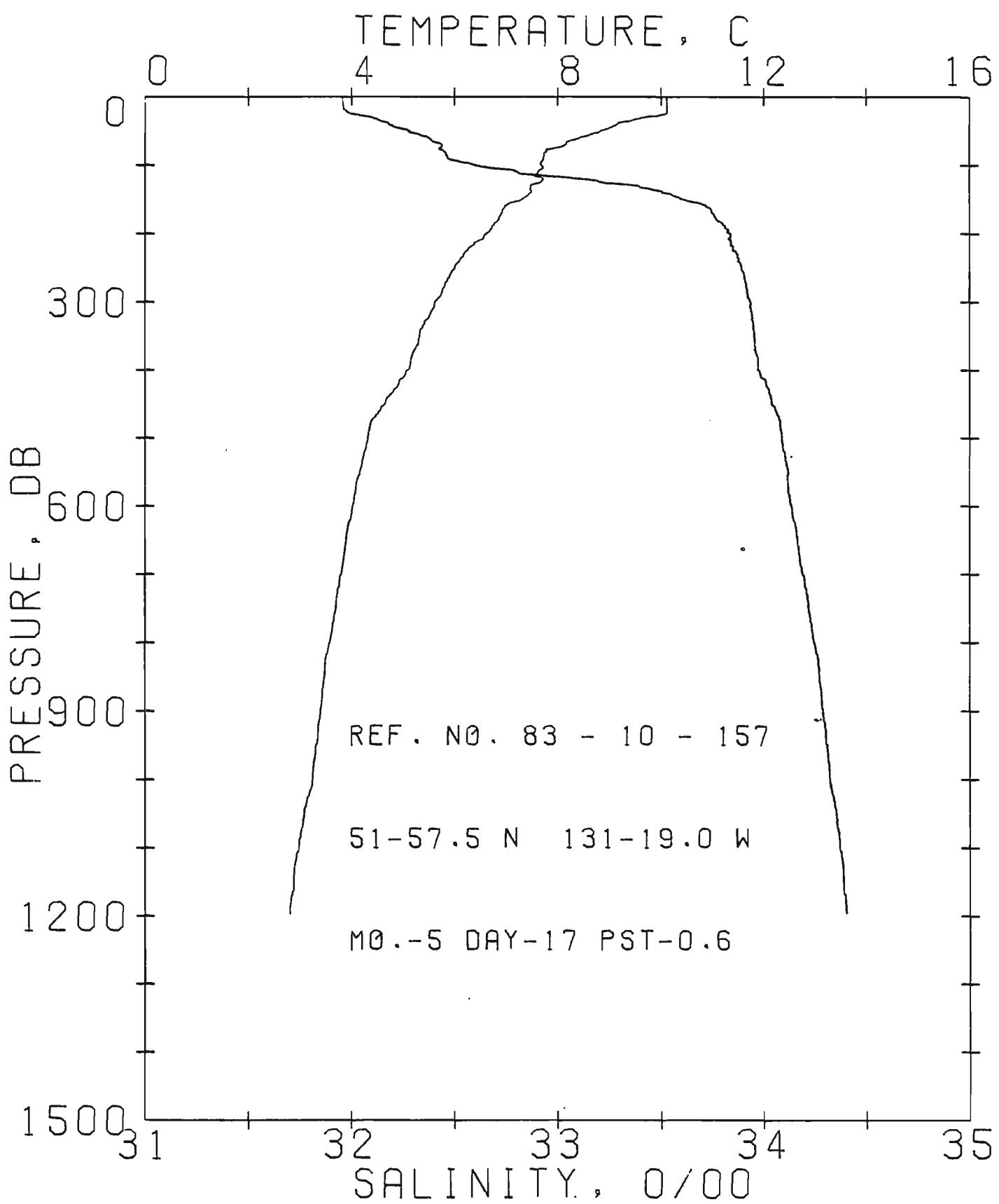
POSITION 52- .0N, 131-14.0W 23.8 STATION J 1

RESULTS OF STP CAST 532 POINTS TAKEN FROM DIGITAL SYSTEM

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	9.86	31.84	0	24.53	341.0	.00	.00	1486.
10	9.86	31.84	10	24.53	341.3	.34	.02	1486.
20	9.72	31.87	20	24.58	336.9	.68	.07	1486.
30	9.49	31.97	30	24.69	326.3	1.01	.15	1485.
50	9.05	32.17	50	24.92	305.2	1.64	.41	1484.
75	8.58	32.31	75	25.10	287.9	2.38	.88	1483.
100	7.81	32.65	99	25.48	252.1	3.06	1.48	1481.
125	7.59	33.19	124	25.94	209.6	3.65	2.16	1481.
150	7.14	33.37	149	26.14	190.7	4.16	2.87	1480.
175	6.72	33.66	174	26.42	164.1	4.61	3.61	1479.
200	6.21	33.79	199	26.59	147.7	4.99	4.34	1478.
225	5.75	33.90	223	26.74	134.3	5.34	5.10	1476.
250	5.43	33.95	248	26.82	127.1	5.67	5.89	1475.
300	5.13	33.98	298	26.88	121.4	6.29	7.62	1475.
400	4.52	34.08	397	27.03	108.1	7.44	11.70	1474.
500	4.10	34.14	496	27.12	100.1	8.47	16.46	1474.
600	3.85	34.19	595	27.18	94.9	9.45	21.94	1475.

272



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 83-10-157

DATE 17/ 5/83

POSITION 51-57.5N, 131-19.0W

.6

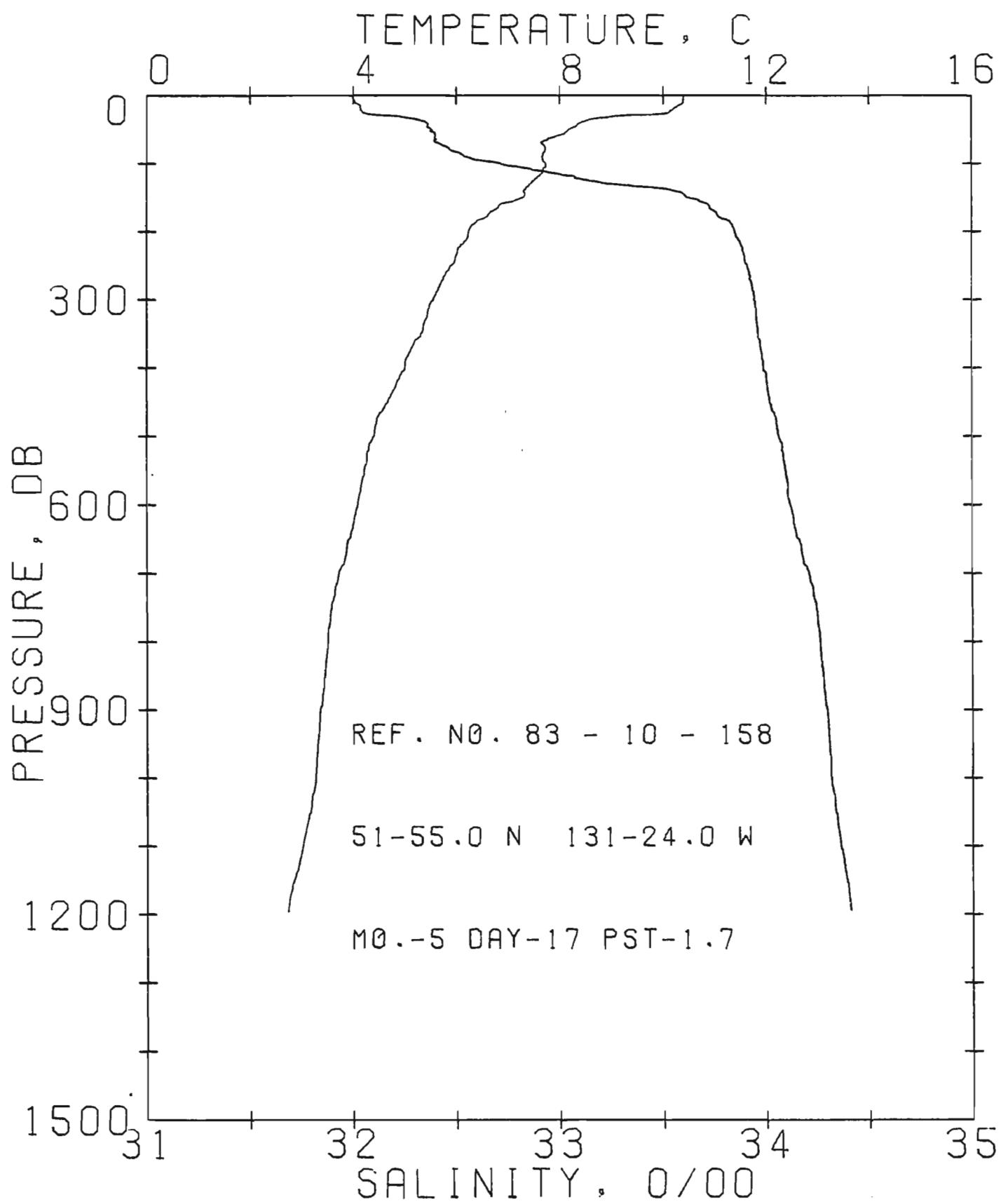
STATION J1A

RESULTS OF STP CAST 1197 POINTS TAKEN FROM DIGITAL SYSTEM

GUIDELINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	10.10	31.96	0	24.59	335.9	.00	.00	1487.
10	10.11	31.97	10	24.59	335.8	.34	.02	1487.
20	10.12	31.98	20	24.60	334.9	.67	.07	1487.
30	9.65	32.11	30	24.78	318.0	1.00	.15	1486.
50	8.83	32.29	50	25.05	292.8	1.61	.40	1483.
75	7.91	32.42	75	25.29	270.3	2.31	.84	1480.
100	7.70	32.61	99	25.47	253.5	2.97	1.43	1480.
125	7.66	33.23	124	25.95	208.0	3.54	2.09	1481.
150	7.31	33.61	149	26.31	174.6	4.01	2.74	1481.
175	6.88	33.77	174	26.49	157.9	4.42	3.41	1480.
200	6.61	33.84	199	26.58	149.0	4.80	4.15	1479.
225	6.23	33.86	223	26.65	143.2	5.17	4.94	1478.
250	6.02	33.89	248	26.70	138.6	5.52	5.79	1478.
300	5.62	33.94	298	26.78	131.0	6.19	7.68	1477.
400	5.08	33.98	397	26.88	122.3	7.46	12.20	1476.
500	4.34	34.09	496	27.05	106.6	8.59	17.37	1475.
600	4.02	34.14	595	27.12	100.3	9.63	23.16	1476.
800	3.59	34.25	793	27.25	89.1	11.52	36.63	1477.
1000	3.25	34.32	990	27.35	81.0	13.21	52.11	1479.
1200	2.80	34.41	1188	27.45	71.1	14.73	69.06	1481.

274



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 83-10-158 DATE 17/ 5/83

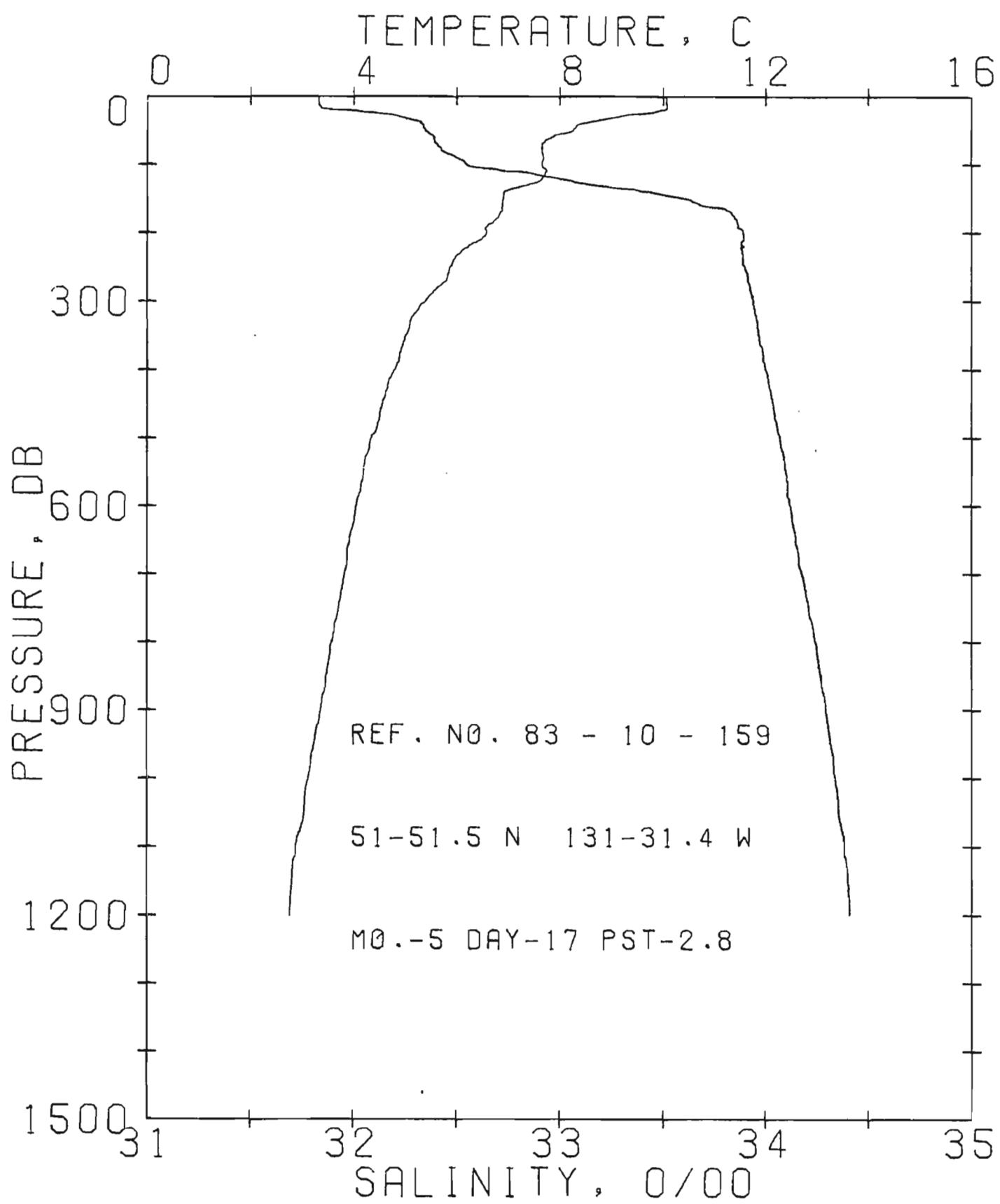
POSITION 51-55.0N, 131-24.0W 1.7 STATION J1B

RESULTS OF STP CAST 1108 POINTS TAKEN FROM DIGITAL SYSTEM

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	10.39	32.00	0	24.57	337.5	.00	.00	1488.
10	10.40	32.01	10	24.58	336.8	.34	.02	1488.
20	10.20	32.04	20	24.64	331.7	.67	.07	1488.
30	9.09	32.23	30	24.96	300.9	1.00	.15	1484.
50	8.18	32.39	50	25.22	276.4	1.56	.38	1481.
75	7.73	32.46	75	25.34	265.1	2.24	.81	1480.
100	7.75	32.72	99	25.55	246.1	2.88	1.39	1481.
125	7.51	33.15	124	25.92	211.0	3.45	2.04	1481.
150	7.28	33.63	149	26.33	172.8	3.92	2.69	1481.
175	6.63	33.76	174	26.52	154.8	4.32	3.36	1479.
200	6.25	33.85	199	26.64	143.8	4.69	4.06	1478.
225	6.04	33.89	223	26.69	138.8	5.05	4.83	1477.
250	5.89	33.91	248	26.73	135.6	5.39	5.66	1477.
300	5.56	33.94	298	26.79	130.1	6.05	7.51	1477.
400	5.01	33.99	397	26.89	121.0	7.30	11.97	1476.
500	4.41	34.06	496	27.02	109.4	8.45	17.22	1475.
600	4.10	34.12	595	27.10	102.6	9.51	23.12	1476.
800	3.52	34.26	793	27.27	87.1	11.38	36.42	1477.
1000	3.28	34.32	990	27.34	81.6	13.06	51.83	1479.
1200	2.74	34.41	1188	27.46	70.1	14.58	68.72	1480.

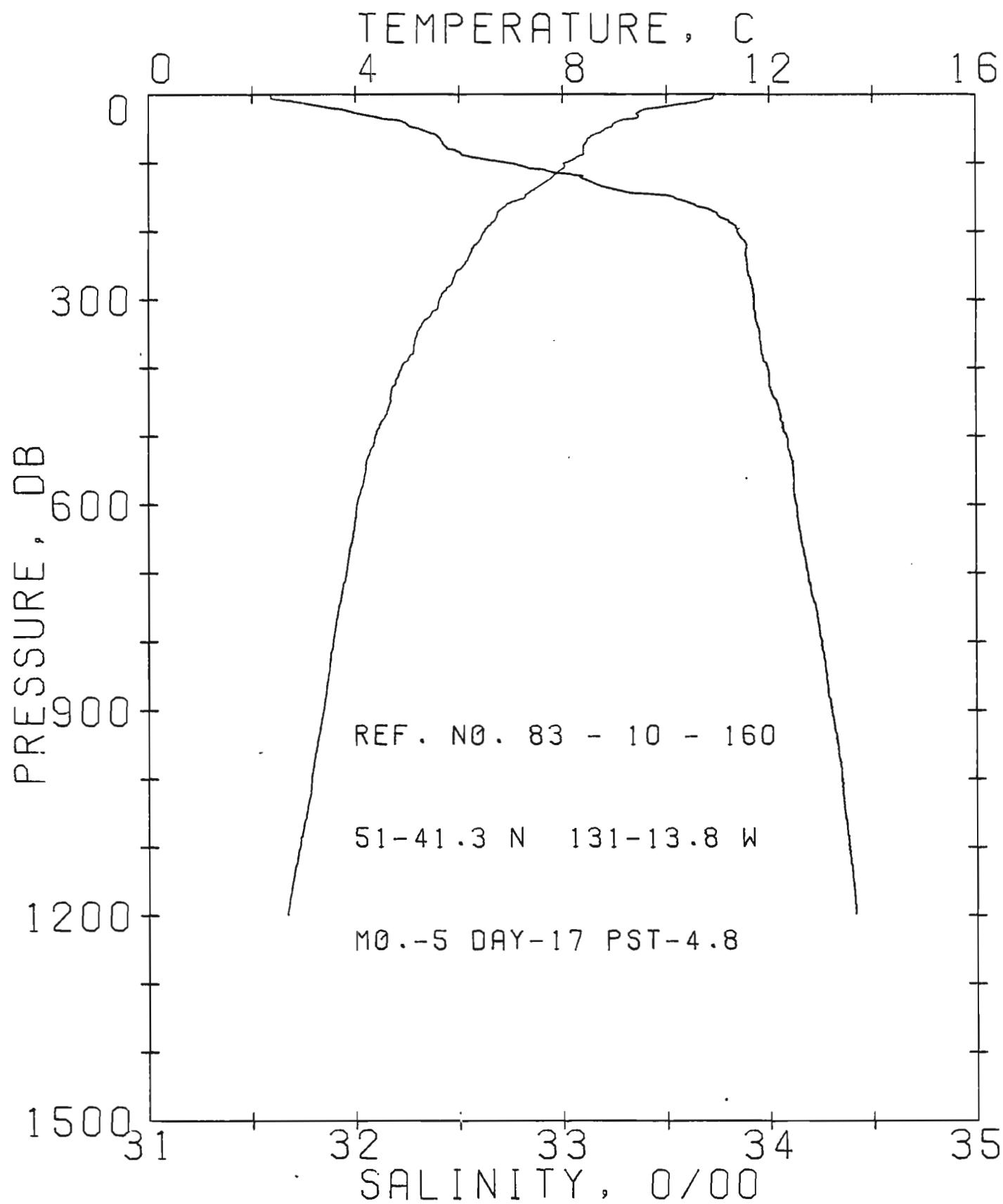
276



OFFSHORE OCEANOGRAPHY GROUP
 REFERENCE NO. 83-10-159 DATE 17/ 5/83
 POSITION 51-51.5N, 131-31.4W 2.8 STATION J 2
 RESULTS OF STP CAST 1146 POINTS TAKEN FROM DIGITAL SYSTEM
 GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	10.06	31.83	0	24.50	344.7	.00	.00	1487.
10	10.07	31.84	10	24.50	344.6	.34	.02	1487.
20	9.95	31.99	20	24.63	331.9	.69	.07	1487.
30	9.09	32.24	30	24.97	299.9	1.00	.15	1484.
50	8.27	32.35	50	25.18	280.1	1.57	.38	1481.
75	7.65	32.43	75	25.33	266.6	2.25	.81	1479.
100	7.65	32.55	99	25.43	257.4	2.91	1.40	1480.
125	7.57	33.07	124	25.84	218.2	3.50	2.08	1481.
150	6.91	33.62	149	26.37	168.9	3.98	2.74	1479.
175	6.84	33.85	174	26.56	151.2	4.38	3.40	1480.
200	6.59	33.89	199	26.62	145.3	4.75	4.11	1479.
225	6.12	33.88	223	26.68	140.0	5.10	4.88	1478.
250	5.88	33.90	248	26.72	136.1	5.45	5.72	1477.
300	5.41	33.94	298	26.81	128.2	6.11	7.57	1476.
400	4.81	34.00	397	26.93	117.6	7.33	11.92	1475.
500	4.36	34.07	496	27.03	108.3	8.46	17.09	1475.
600	4.05	34.13	595	27.11	101.6	9.51	22.97	1476.
800	3.59	34.25	793	27.25	89.0	11.43	36.60	1477.
1000	3.13	34.34	990	27.37	78.2	13.10	51.92	1479.
1200	2.77	34.41	1188	27.46	70.5	14.58	68.41	1481.

278



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 83-10-160 DATE 17/ 5/83

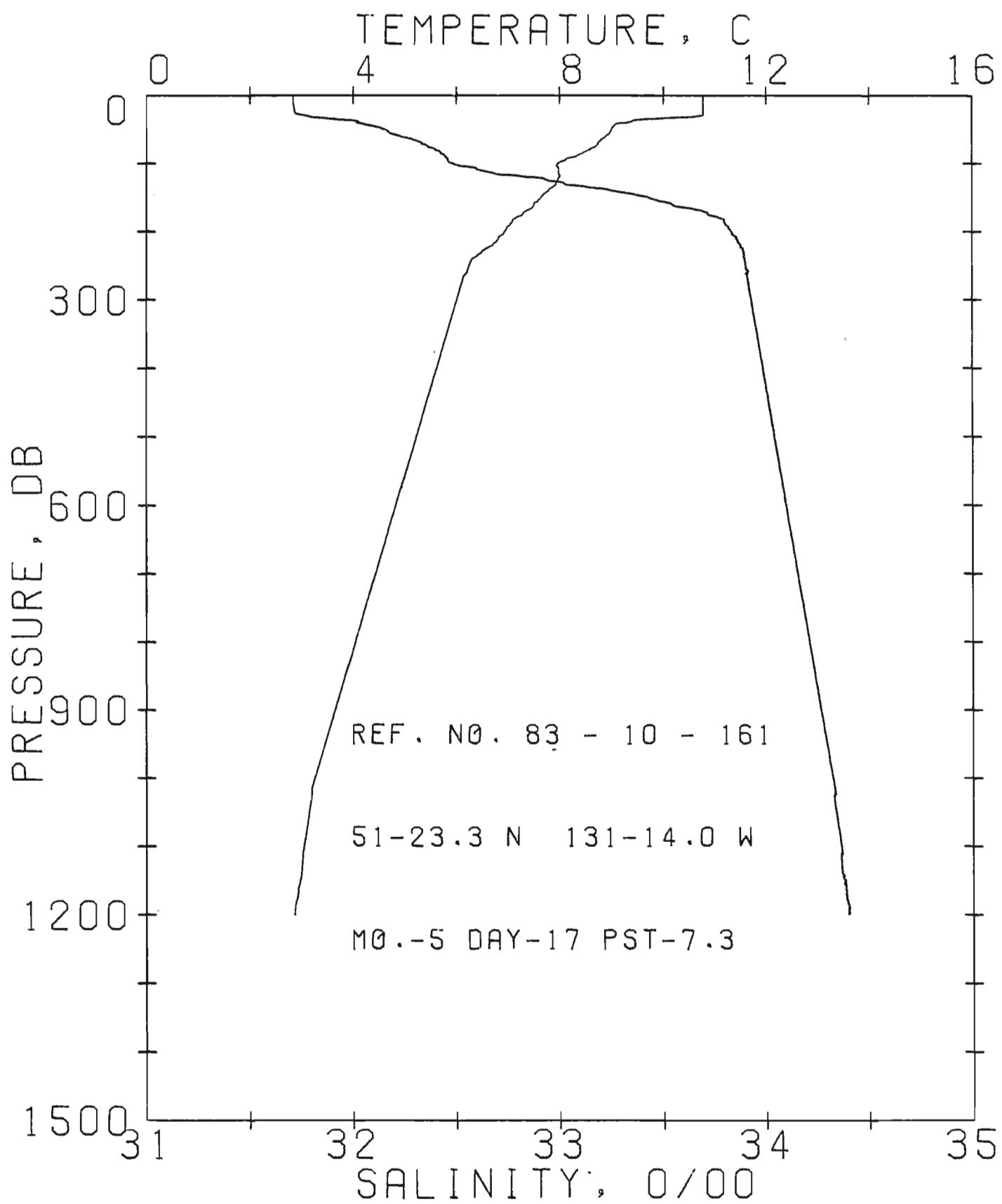
POSITION 51-41.3N, 131-13.8W 4.8 STATION 88

RESULTS OF STP CAST 1199 POINTS TAKEN FROM DIGITAL SYSTEM

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	10.93	31.59	0	24.16	376.5	.00	.00	1489.
10	10.65	31.72	10	24.31	362.7	.37	.02	1489.
20	9.72	31.90	20	24.60	334.7	.72	.07	1486.
30	9.47	32.07	30	24.78	318.3	1.05	.15	1485.
50	8.83	32.32	50	25.07	290.8	1.65	.40	1483.
75	8.41	32.44	75	25.23	276.1	2.35	.85	1482.
100	8.00	32.76	99	25.54	246.5	3.02	1.44	1482.
125	7.73	33.13	124	25.87	216.2	3.60	2.10	1481.
150	7.29	33.54	149	26.26	179.6	4.10	2.80	1481.
175	6.75	33.75	174	26.49	157.3	4.51	3.49	1479.
200	6.49	33.85	199	26.60	147.3	4.89	4.21	1479.
225	6.26	33.89	223	26.66	141.7	5.25	4.99	1478.
250	6.09	33.89	248	26.69	139.5	5.61	5.84	1478.
300	5.62	33.93	298	26.77	131.8	6.28	7.73	1477.
400	4.89	33.99	397	26.91	119.1	7.54	12.21	1476.
500	4.39	34.09	496	27.04	107.4	8.68	17.42	1475.
600	4.03	34.13	595	27.12	100.8	9.72	23.24	1476.
800	3.57	34.26	793	27.26	88.2	11.62	36.76	1477.
1000	3.15	34.35	990	27.37	78.2	13.28	51.99	1479.
1200	2.68	34.41	1188	27.46	69.8	14.76	68.49	1480.

280



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 83-10-161 DATE 17/ 5/83

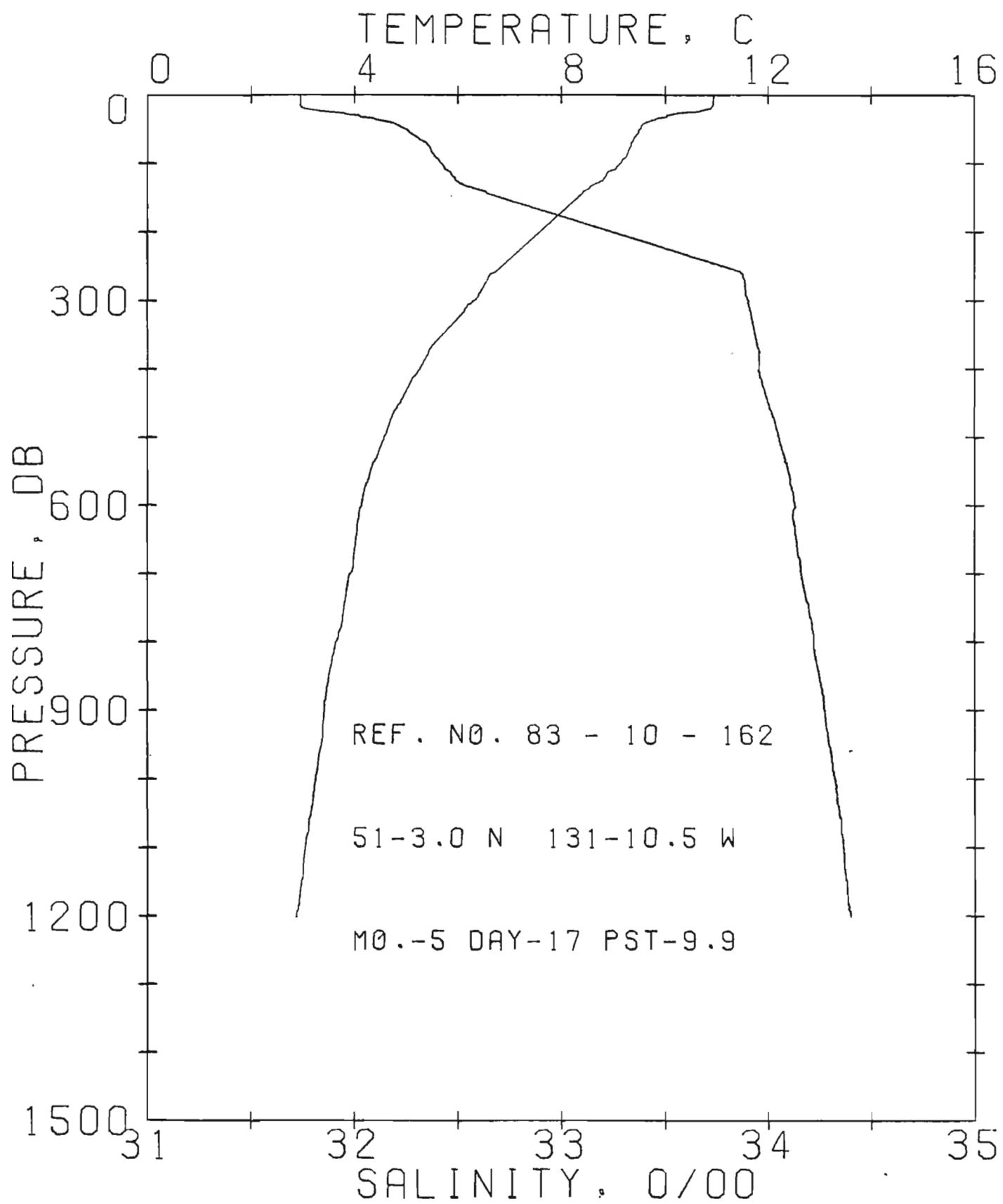
POSITION 51-23.3N, 131-14.0W 7.3 STATION I 3

RESULTS OF STP CAST 333 POINTS TAKEN FROM DIGITAL SYSTEM

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	10.77	31.71	0	24.28	365.0	.00	.00	1489.
10	10.77	31.71	10	24.28	365.0	.36	.02	1489.
20	10.77	31.72	20	24.29	365.1	.73	.07	1489.
30	10.68	31.79	30	24.36	358.4	1.09	.17	1489.
50	9.01	32.17	50	24.93	304.6	1.74	.43	1484.
75	8.71	32.37	75	25.13	285.7	2.47	.90	1483.
100	7.96	32.49	99	25.34	266.2	3.16	1.51	1481.
125	7.97	32.95	124	25.69	232.9	3.79	2.23	1482.
150	7.65	33.44	149	26.12	192.6	4.32	2.96	1482.
175	7.29	33.72	174	26.39	166.8	4.76	3.70	1481.
200	6.94	33.83	199	26.53	154.1	5.16	4.46	1481.
225	6.57	33.89	223	26.63	145.4	5.53	5.27	1480.
250	6.26	33.90	248	26.68	140.8	5.89	6.13	1479.
300	6.01	33.93	298	26.73	136.3	6.58	8.07	1479.
400	5.62	33.99	397	26.82	128.4	7.91	12.77	1479.
500	5.23	34.04	496	26.91	120.6	9.15	18.46	1479.
600	4.83	34.10	595	27.00	112.7	10.32	24.98	1479.
800	4.05	34.21	793	27.18	96.9	12.41	39.77	1479.
1000	3.26	34.32	990	27.34	81.0	14.19	55.92	1479.
1200	2.86	34.40	1188	27.45	71.9	15.72	72.97	1481.

282



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 83-10-162

DATE 17/ 5/83

POSITION 51- 3.0N, 131-10.5W

9.9

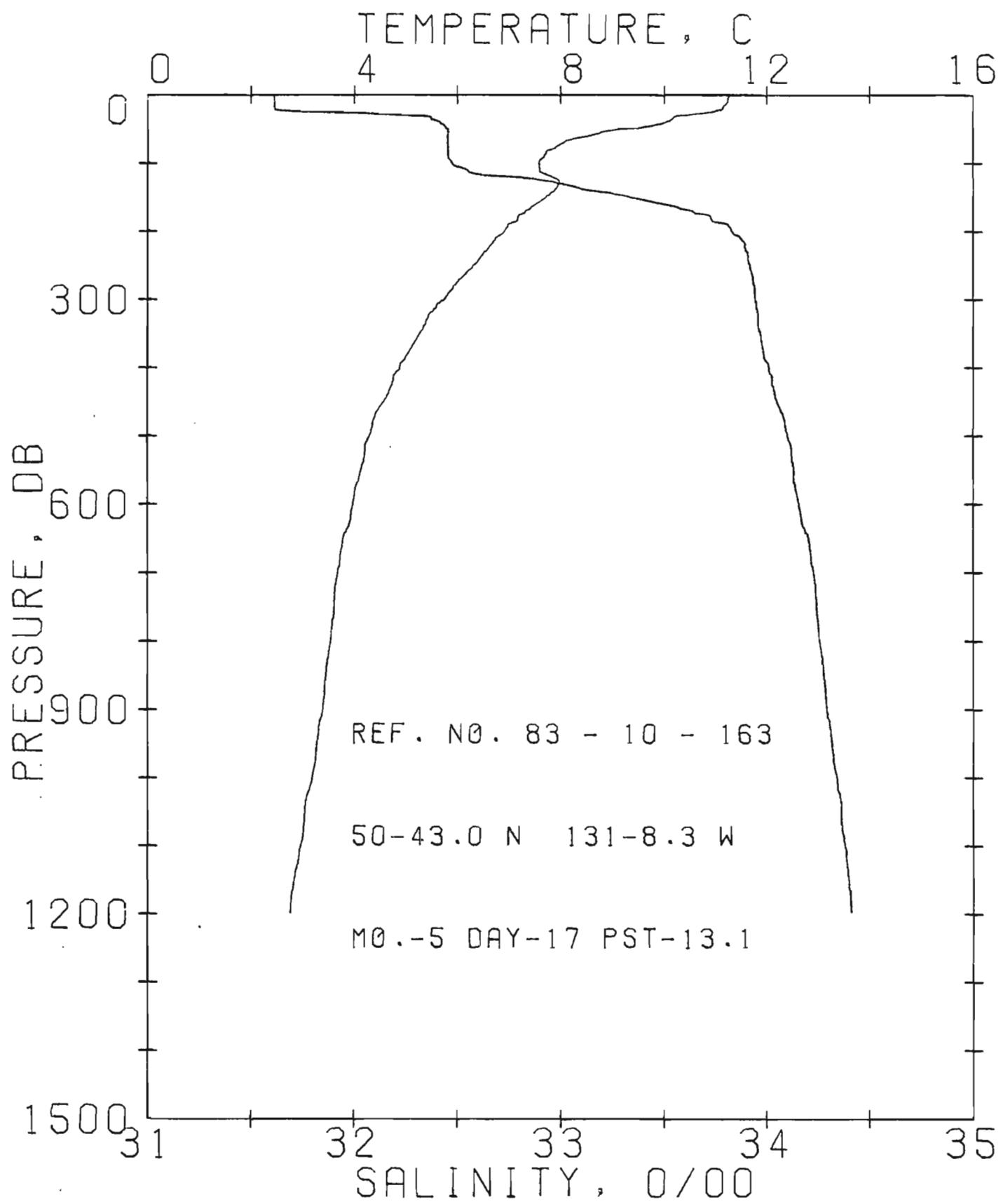
STATION 89

RESULTS OF STP CAST 798 POINTS TAKEN FROM DIGITAL SYSTEM

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	10.95	31.74	0	24.27	365.9	.00	.00	1490.
10	10.94	31.74	10	24.28	365.8	.37	.02	1490.
20	10.84	31.78	20	24.32	361.8	.73	.07	1490.
30	10.05	32.03	30	24.65	330.3	1.08	.16	1487.
50	9.51	32.26	50	24.92	305.5	1.71	.42	1486.
75	9.34	32.37	75	25.03	295.2	2.46	.90	1486.
100	9.13	32.43	99	25.11	288.1	3.19	1.55	1485.
125	8.81	32.50	124	25.21	278.4	3.90	2.36	1485.
150	8.32	32.72	149	25.46	255.2	4.56	3.29	1484.
175	7.95	32.99	174	25.72	230.5	5.17	4.29	1483.
200	7.59	33.26	199	25.99	205.8	5.71	5.33	1482.
225	7.22	33.52	224	26.25	181.2	6.20	6.37	1482.
250	6.85	33.79	248	26.51	156.7	6.62	7.39	1481.
300	6.32	33.91	298	26.67	141.7	7.35	9.44	1480.
400	5.27	33.95	397	26.84	126.6	8.68	14.17	1477.
500	4.59	34.05	496	26.99	112.1	9.87	19.60	1476.
600	4.15	34.13	595	27.10	102.4	10.94	25.57	1476.
800	3.65	34.22	793	27.23	91.5	12.89	39.48	1477.
1000	3.25	34.33	991	27.35	80.8	14.61	55.23	1479.
1200	2.87	34.40	1188	27.44	72.3	16.15	72.40	1481.

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OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 83-10-163 DATE 17/ 5/83

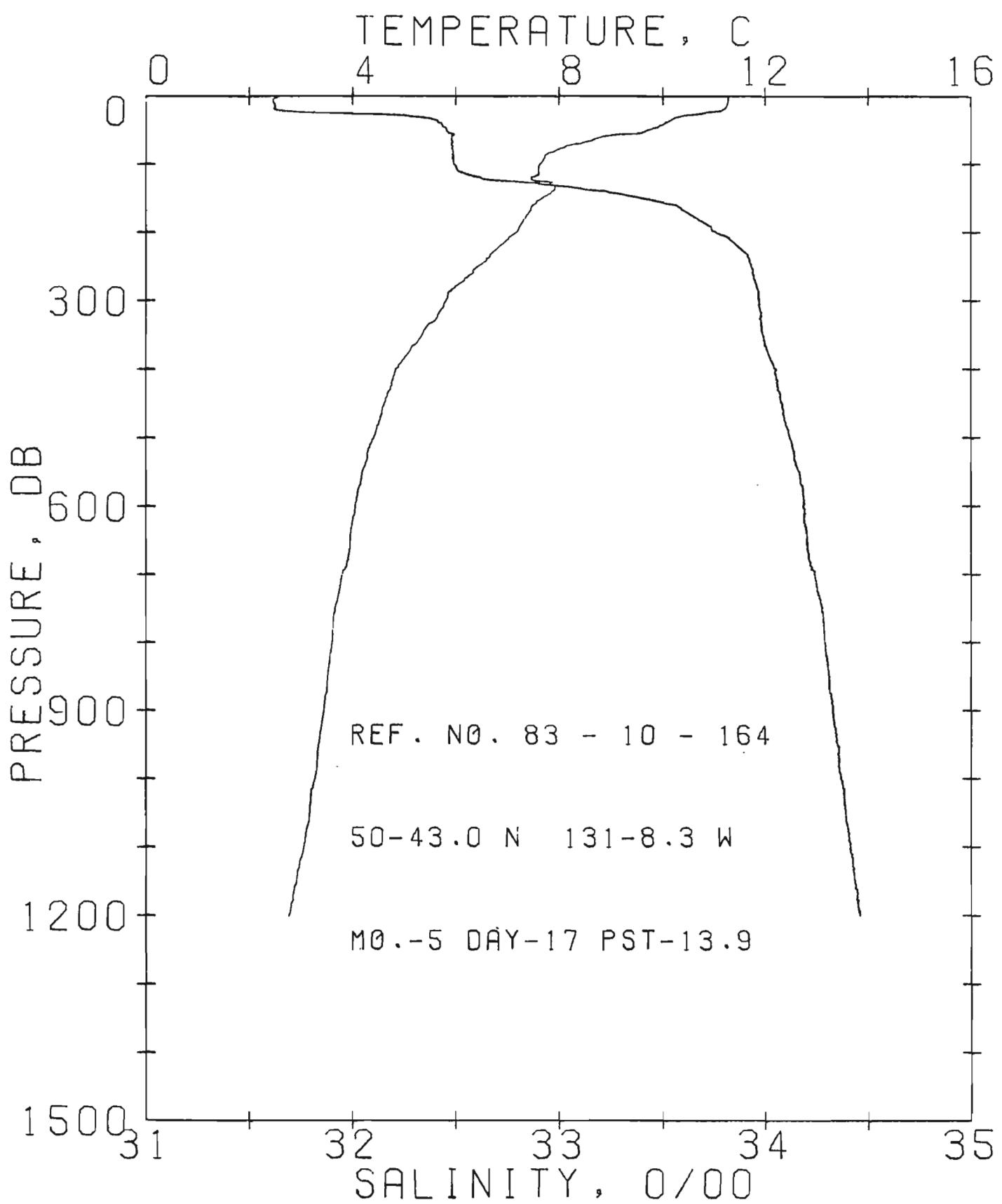
POSITION 50-43.0N, 131- 8.3W 13.1 STATION H 5

RESULTS OF STP CAST 927 POINTS TAKEN FROM DIGITAL SYSTEM

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	11.27	31.61	0	24.12	380.7	.00	.00	1491.
10	11.23	31.62	10	24.13	379.7	.38	.02	1491.
20	11.14	31.62	20	24.14	378.7	.76	.08	1491.
30	10.25	32.35	30	24.86	310.2	1.11	.17	1488.
50	9.11	32.46	50	25.14	284.5	1.71	.41	1485.
75	7.93	32.45	75	25.31	268.2	2.40	.85	1481.
100	7.58	32.48	99	25.38	262.0	3.06	1.44	1480.
125	7.98	32.94	124	25.68	233.9	3.69	2.16	1482.
150	7.72	33.35	149	26.04	200.2	4.24	2.92	1482.
175	7.21	33.71	174	26.40	166.1	4.69	3.68	1481.
200	6.92	33.83	199	26.53	153.8	5.09	4.44	1480.
225	6.60	33.90	223	26.63	145.3	5.46	5.24	1480.
250	6.32	33.92	248	26.68	140.4	5.82	6.11	1479.
300	5.75	33.94	298	26.77	132.1	6.50	8.01	1478.
400	4.90	34.01	397	26.93	117.9	7.75	12.45	1476.
500	4.31	34.10	496	27.06	105.3	8.86	17.54	1475.
600	3.98	34.16	595	27.14	98.5	9.88	23.24	1475.
800	3.55	34.26	793	27.26	87.8	11.71	36.30	1477.
1000	3.19	34.34	990	27.36	79.0	13.39	51.62	1479.
1200	2.76	34.42	1188	27.46	69.9	14.88	68.22	1480.

286



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 83-10-164

DATE 17/ 5/83

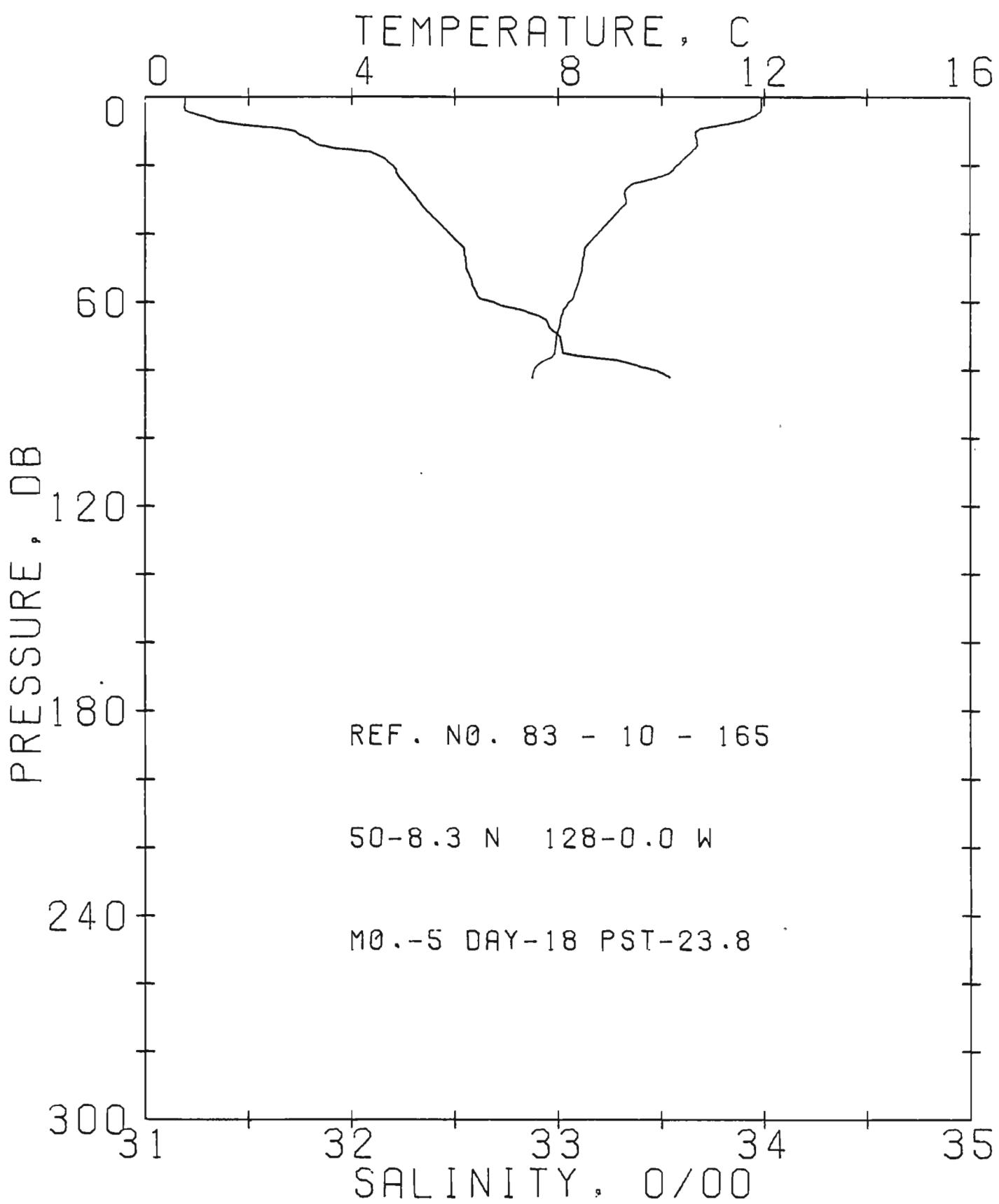
POSITION 50-43.0N, 131- 8.3W 13.9 STATION H 5

RESULTS OF STP CAST 1042 POINTS TAKEN FROM DIGITAL SYSTEM

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	11.28	31.63	0	24.13	379.8	.00	.00	1491.
10	11.27	31.63	10	24.13	379.7	.38	.02	1491.
20	11.18	31.63	20	24.15	377.9	.76	.08	1491.
30	10.31	32.32	30	24.84	312.7	1.10	.16	1489.
50	9.68	32.46	50	25.05	293.3	1.71	.41	1487.
75	8.10	32.49	75	25.31	268.2	2.40	.85	1481.
100	7.63	32.50	99	25.39	261.4	3.06	1.44	1480.
125	7.79	32.81	124	25.61	240.4	3.70	2.17	1481.
150	7.67	33.41	149	26.10	194.4	4.24	2.92	1482.
175	7.39	33.65	174	26.32	173.7	4.69	3.67	1482.
200	7.18	33.76	199	26.44	162.5	5.11	4.47	1481.
225	6.79	33.89	224	26.60	148.2	5.50	5.31	1480.
250	6.43	33.94	248	26.68	140.5	5.86	6.18	1479.
300	5.82	33.97	298	26.79	130.7	6.53	8.07	1478.
400	4.84	34.06	397	26.97	113.9	7.77	12.47	1476.
500	4.42	34.12	496	27.07	105.2	8.87	17.51	1476.
600	4.06	34.18	595	27.15	97.6	9.87	23.12	1476.
800	3.61	34.29	793	27.29	85.9	11.70	36.12	1477.
1000	3.28	34.37	990	27.38	78.1	13.34	51.14	1479.
1200	2.77	34.46	1188	27.50	66.7	14.79	67.35	1481.

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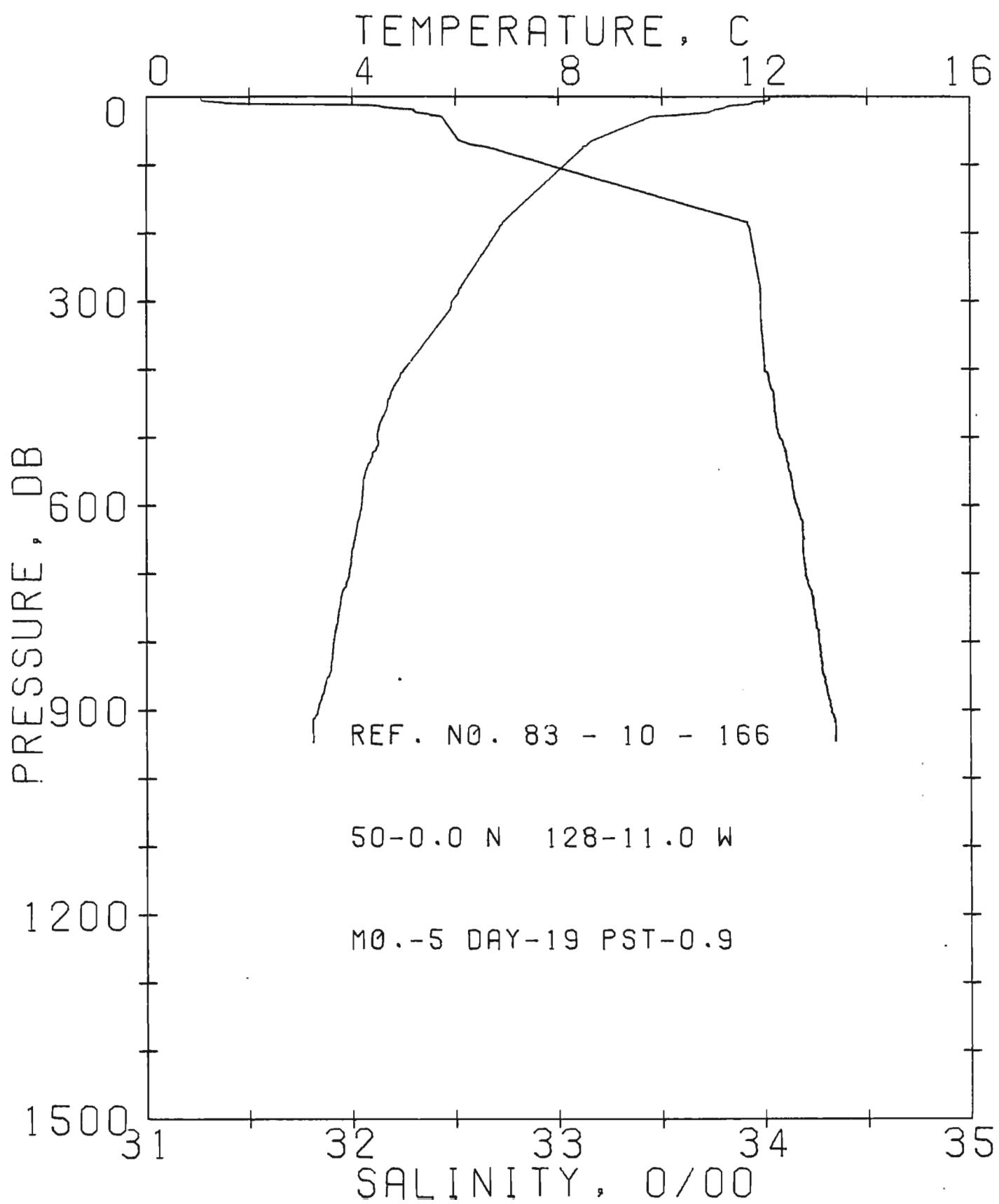


289

OFFSHORE OCEANOGRAPHY GROUP
REFERENCE NO. 83-10-165 DATE 18/ 5/83
POSITION 50- 8.3N, 128- .0W 23.8 STATION D 1
RESULTS OF STP CAST 72 POINTS TAKEN FROM DIGITAL SYSTEM
GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA	SVA	DELTA	POT.	SOUND
				T		D	EN	
0	11.96	31.19	0	23.67	423.3	.00	.00	1493.
10	10.66	31.73	10	24.32	361.8	.41	.02	1489.
20	10.29	32.21	20	24.75	320.9	.75	.07	1488.
30	9.32	32.32	30	25.00	297.5	1.06	.15	1485.
50	8.48	32.56	50	25.31	268.0	1.62	.38	1482.
75	7.94	33.03	75	25.76	225.9	2.23	.76	1481.

290



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 83-10-166 DATE 19/ 5/83

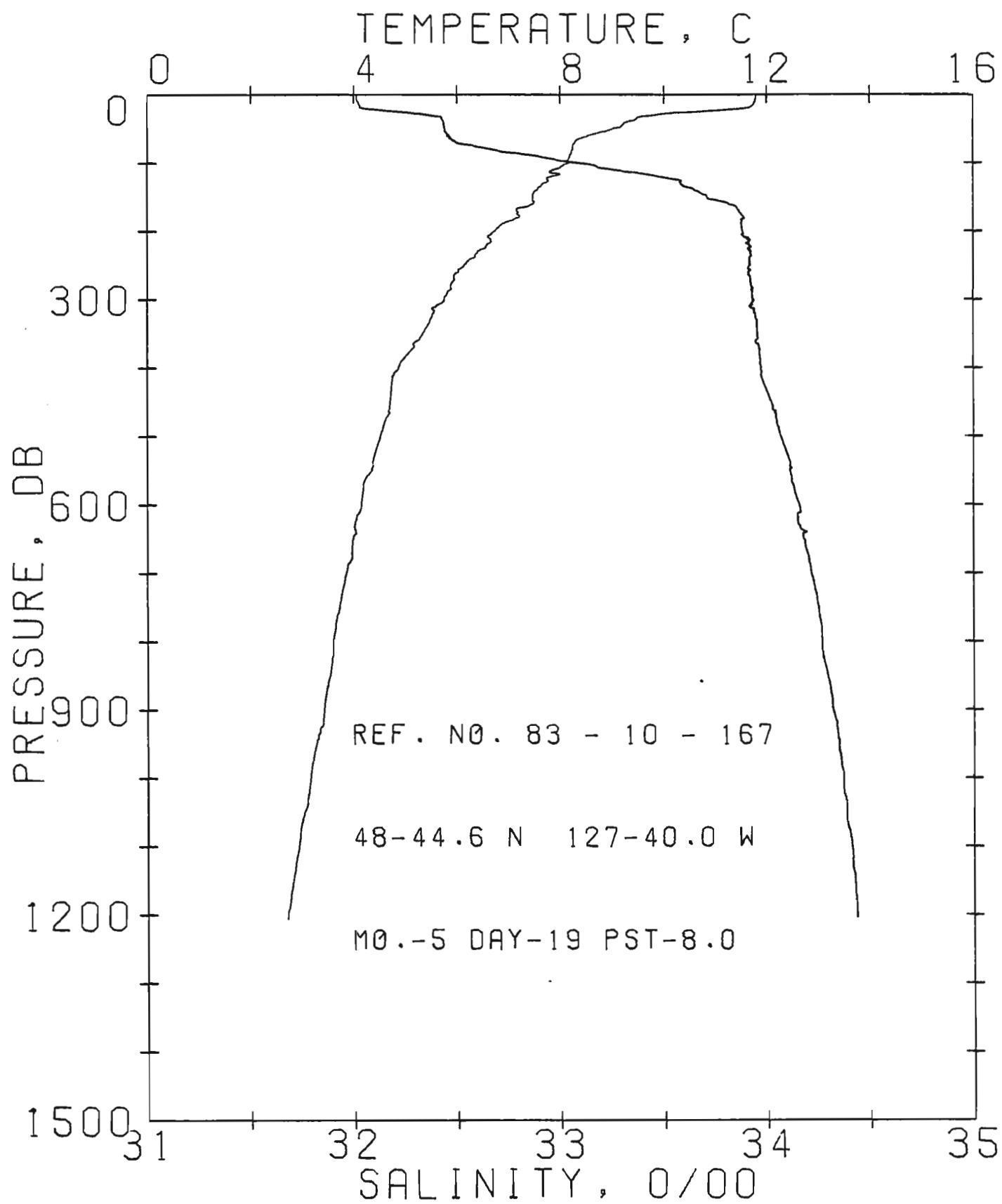
POSITION 50- .0N, 128-11.0W .9 STATION D 2

RESULTS OF STP CAST 616 POINTS TAKEN FROM DIGITAL SYSTEM

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	12.12	31.27	0	23.70	420.9	.00	.00	1493.
10	11.75	31.52	10	23.96	396.0	.42	.02	1492.
20	11.01	32.30	20	24.69	326.3	.76	.07	1491.
30	9.75	32.44	30	25.02	295.2	1.07	.15	1487.
50	9.11	32.49	50	25.16	282.3	1.65	.39	1485.
75	8.47	32.68	75	25.41	259.2	2.33	.82	1483.
100	8.12	32.96	99	25.68	233.4	2.95	1.36	1482.
125	7.76	33.25	124	25.96	207.6	3.50	1.99	1482.
150	7.41	33.53	149	26.23	181.9	3.98	2.67	1481.
175	7.05	33.82	174	26.50	156.3	4.41	3.37	1481.
200	6.79	33.93	199	26.63	144.6	4.78	4.07	1480.
225	6.58	33.95	223	26.67	141.0	5.13	4.85	1480.
250	6.36	33.96	248	26.71	137.5	5.48	5.69	1479.
300	5.93	33.98	298	26.78	131.2	6.15	7.57	1478.
400	5.01	34.00	397	26.91	119.9	7.41	12.04	1476.
500	4.49	34.08	496	27.02	109.2	8.55	17.25	1476.
600	4.19	34.16	595	27.13	100.3	9.60	23.09	1476.
800	3.65	34.27	793	27.26	88.2	11.48	36.53	1477.

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OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 83-10-167

DATE 19/ 5/83

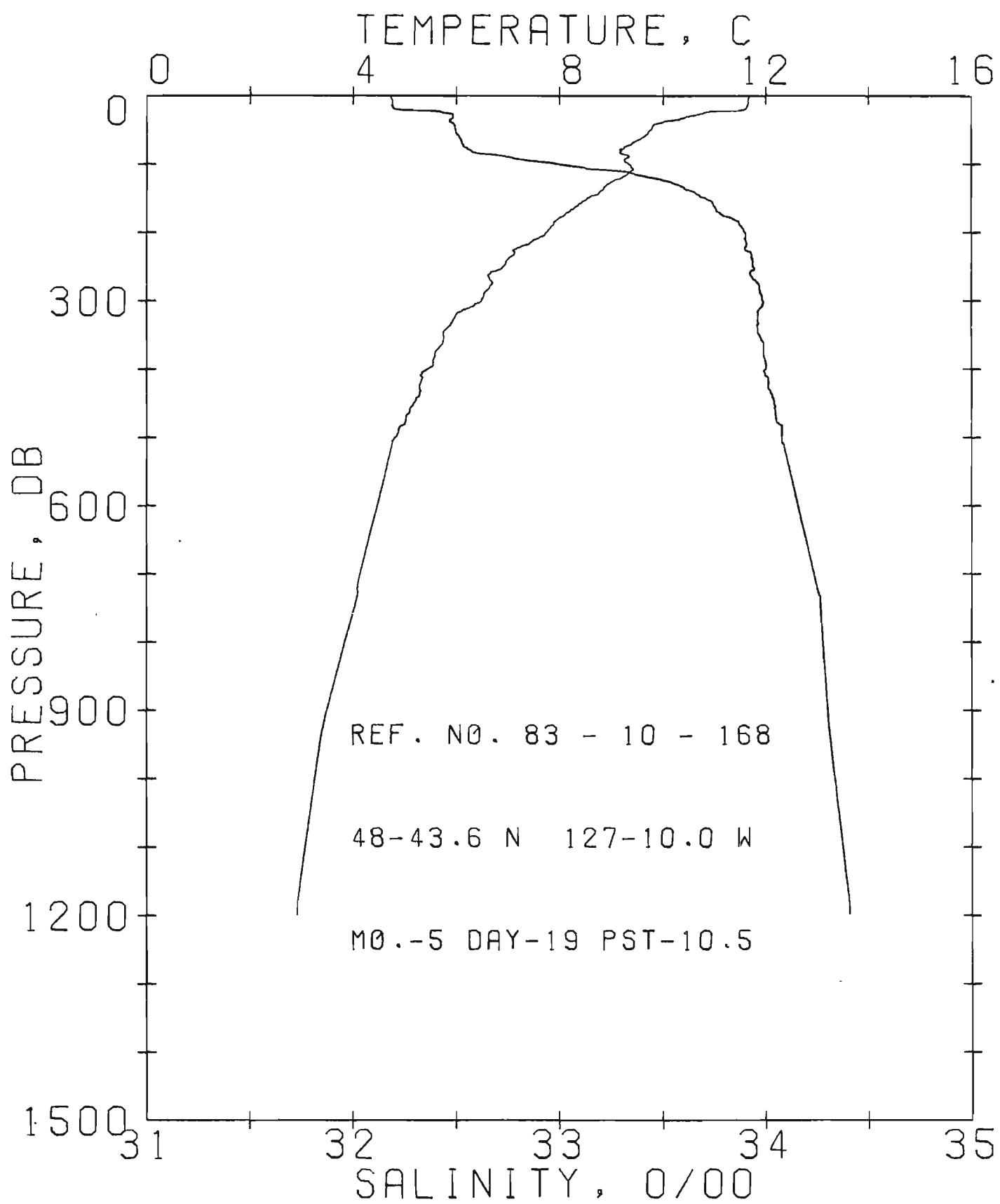
POSITION 48-44.6N, 127-40.0W 8.0 STATION P 6

RESULTS OF STP CAST 948 POINTS TAKEN FROM DIGITAL SYSTEM

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	11.80	32.01	0	24.33	360.0	.00	.00	1493.
10	11.78	32.02	10	24.34	359.6	.36	.02	1493.
20	11.57	32.05	20	24.40	354.0	.72	.07	1493.
30	9.79	32.38	30	24.96	300.6	1.04	.16	1487.
50	9.02	32.44	50	25.14	284.2	1.62	.39	1484.
75	8.25	32.59	75	25.37	262.6	2.31	.83	1482.
100	8.16	33.10	99	25.78	224.2	2.92	1.37	1483.
125	7.79	33.58	124	26.21	183.6	3.43	1.95	1482.
150	7.47	33.71	149	26.36	169.5	3.87	2.57	1482.
175	7.16	33.88	174	26.53	153.5	4.27	3.23	1481.
200	6.73	33.88	199	26.60	147.6	4.64	3.95	1480.
225	6.54	33.91	223	26.64	143.7	5.01	4.74	1479.
250	6.15	33.92	248	26.70	138.2	5.36	5.58	1478.
300	5.76	33.93	298	26.76	132.9	6.03	7.48	1478.
400	4.89	33.97	397	26.90	120.5	7.30	11.99	1476.
500	4.53	34.07	496	27.01	110.2	8.46	17.28	1476.
600	4.16	34.16	595	27.12	100.4	9.51	23.16	1476.
800	3.61	34.27	793	27.26	87.9	11.38	36.49	1477.
1000	3.16	34.37	991	27.39	76.5	13.03	51.55	1479.
1200	2.71	34.43	1188	27.48	68.0	14.47	67.68	1480.

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295

OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 83-10-168

DATE 19/ 5/83

POSITION 48-43.6N, 127-10.0W

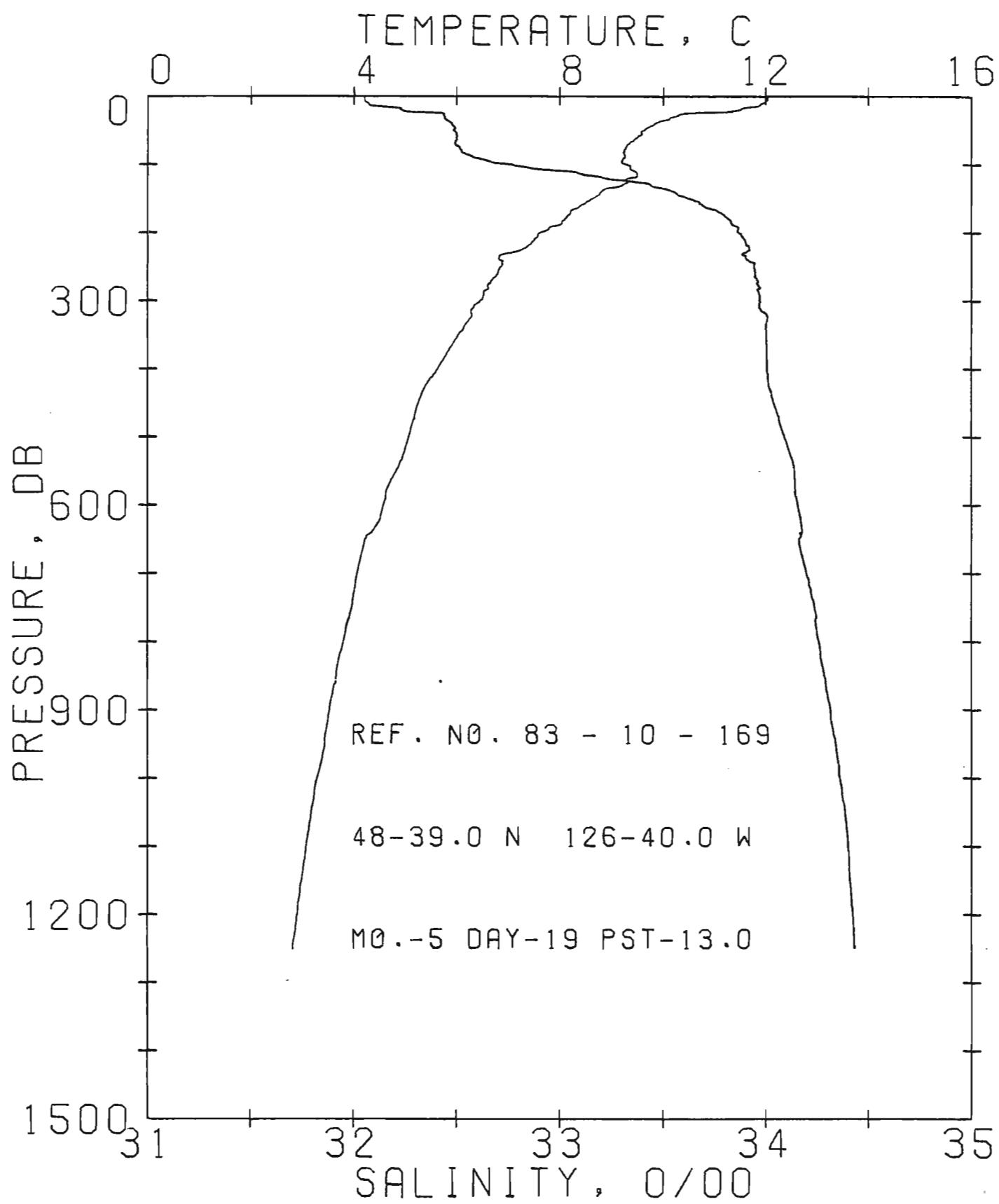
10.5 STATION P 5

RESULTS OF STP CAST 542 POINTS TAKEN FROM DIGITAL SYSTEM

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	11.69	32.18	0	24.49	345.6	.00	.00	1493.
10	11.67	32.20	10	24.50	344.6	.34	.02	1493.
20	11.59	32.22	20	24.53	342.0	.69	.07	1493.
30	10.47	32.48	30	24.93	303.7	1.00	.15	1489.
50	9.74	32.50	50	25.07	291.0	1.60	.39	1487.
75	9.26	32.54	75	25.17	281.4	2.31	.85	1486.
100	9.35	33.00	99	25.52	248.8	2.98	1.44	1487.
125	9.03	33.53	124	25.99	205.2	3.55	2.09	1487.
150	8.54	33.71	149	26.20	185.0	4.04	2.77	1486.
175	8.10	33.79	174	26.33	172.8	4.48	3.51	1485.
200	7.75	33.90	199	26.47	160.2	4.90	4.30	1484.
225	7.11	33.90	224	26.56	151.7	5.29	5.15	1482.
250	6.92	33.94	248	26.62	146.7	5.66	6.04	1481.
300	6.50	33.98	298	26.71	138.5	6.37	8.03	1481.
400	5.44	34.00	397	26.86	125.0	7.68	12.69	1478.
500	4.82	34.08	496	26.99	112.8	8.87	18.16	1477.
600	4.48	34.16	595	27.09	104.1	9.95	24.22	1478.
800	3.85	34.28	793	27.25	89.6	11.87	37.83	1478.
1000	3.27	34.34	991	27.35	80.3	13.57	53.34	1479.
1200	2.91	34.41	1188	27.44	72.2	15.09	70.36	1481.

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OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 83-10-169 DATE 19/ 5/83

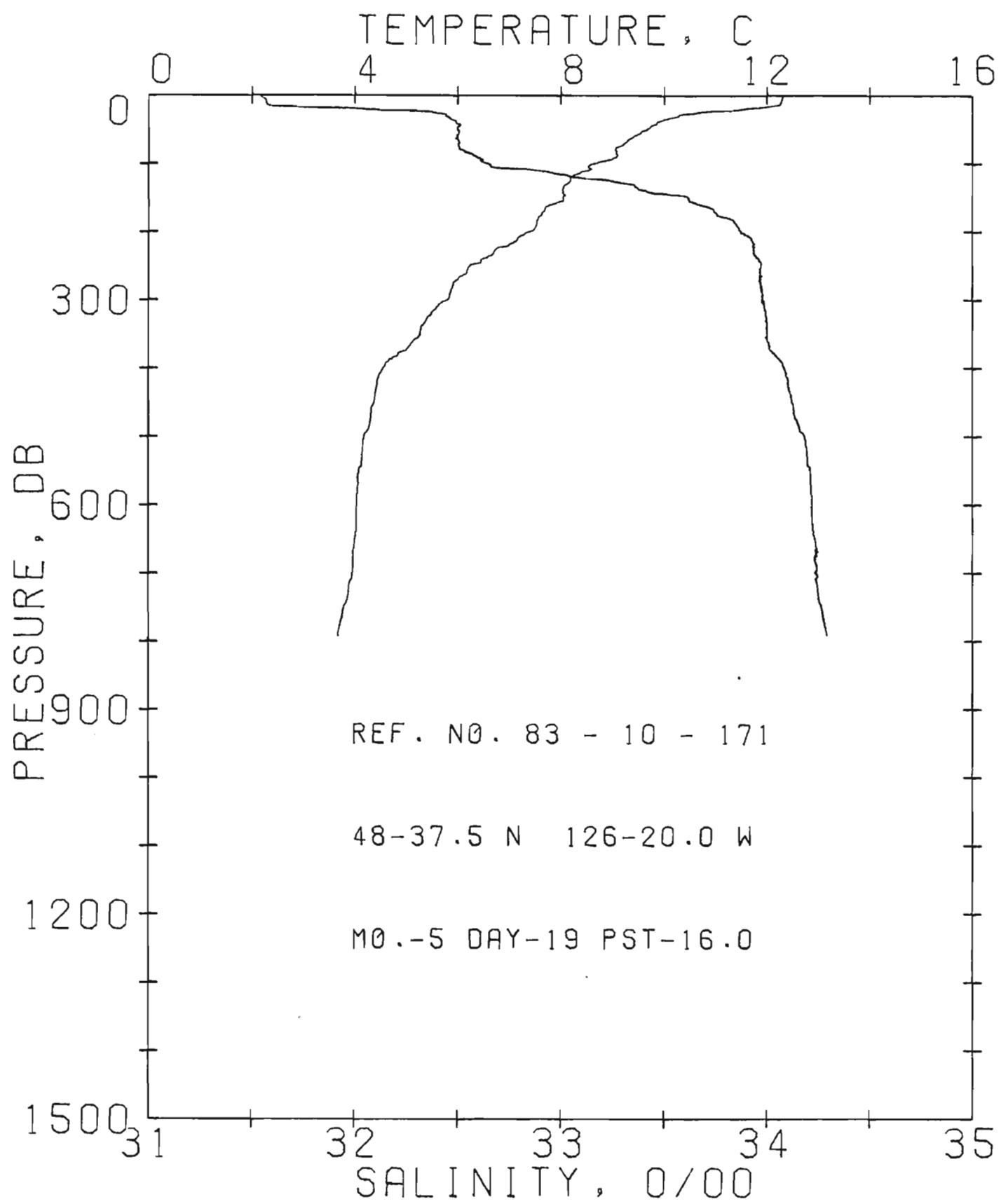
POSITION 48-39.0N, 126-40.0W 13.0 STATION P 4

RESULTS OF STP CAST 770 POINTS TAKEN FROM DIGITAL SYSTEM

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	12.05	32.06	0	24.32	361.4	.00	.00	1494.
10	11.94	32.08	10	24.36	358.3	.36	.02	1494.
20	11.46	32.24	20	24.57	338.1	.71	.07	1492.
30	10.18	32.44	30	24.95	301.9	1.02	.15	1488.
50	9.60	32.48	50	25.08	290.3	1.61	.39	1487.
75	9.30	32.52	75	25.16	283.2	2.33	.85	1486.
100	9.36	32.78	99	25.35	265.5	3.02	1.47	1487.
125	9.34	33.38	124	25.82	221.3	3.64	2.16	1488.
150	8.63	33.63	149	26.13	192.0	4.15	2.88	1486.
175	8.16	33.80	174	26.33	173.0	4.60	3.63	1485.
200	7.60	33.87	199	26.47	160.3	5.02	4.43	1483.
225	7.26	33.92	224	26.56	152.1	5.41	5.28	1482.
250	6.86	33.94	248	26.63	145.6	5.78	6.17	1481.
300	6.46	33.97	298	26.70	139.2	6.49	8.16	1480.
400	5.64	34.01	397	26.84	127.1	7.81	12.86	1479.
500	5.08	34.10	496	26.97	114.8	9.02	18.38	1478.
600	4.60	34.16	595	27.08	105.3	10.11	24.51	1478.
800	3.82	34.26	793	27.24	90.6	12.06	38.36	1478.
1000	3.31	34.36	991	27.37	78.9	13.75	53.81	1479.
1200	2.91	34.43	1188	27.46	70.8	15.23	70.44	1481.

298



OFFSHORE OCEANOGRAPHY GROUP

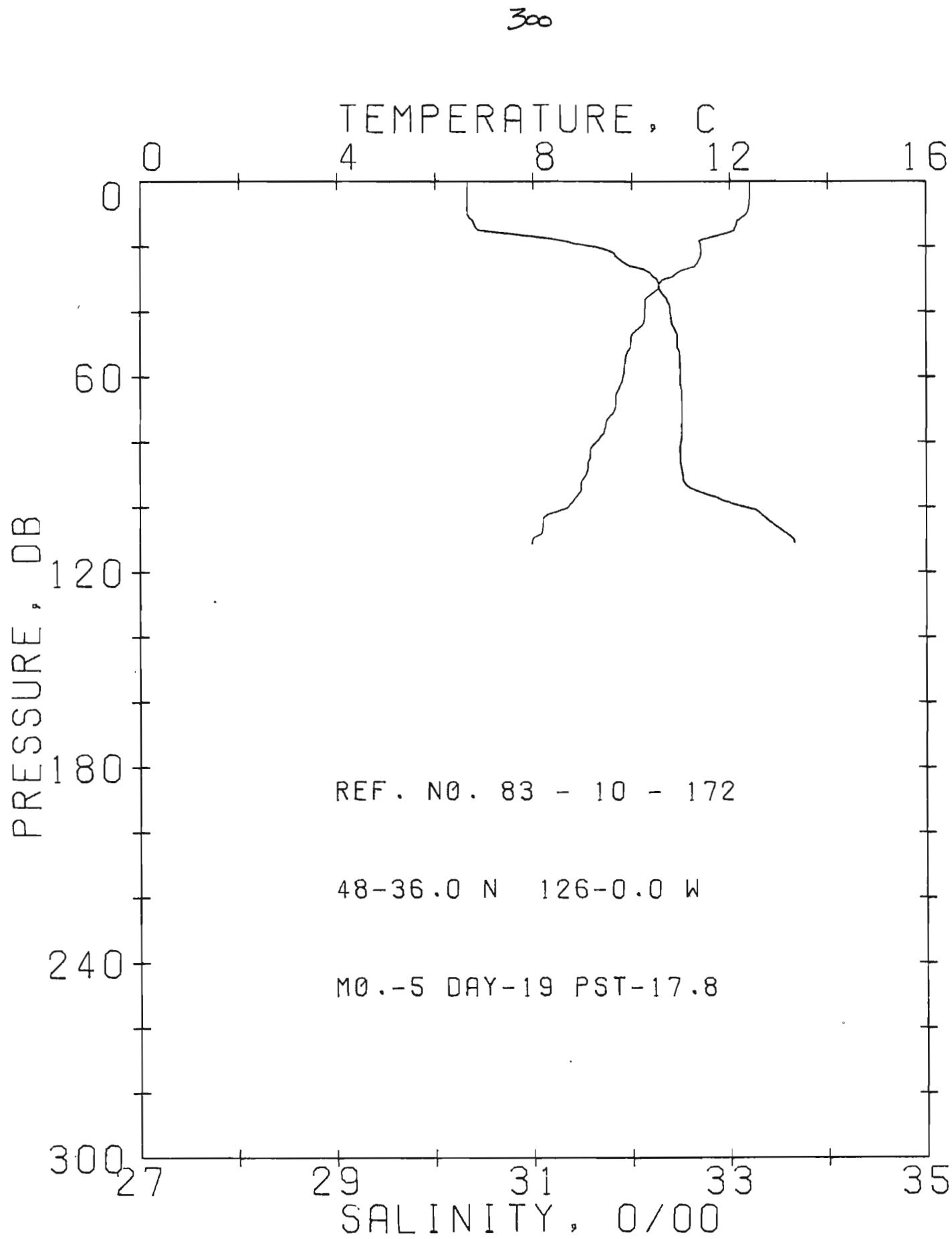
REFERENCE NO. 83-10-171 DATE 19/ 5/83

POSITION 48-37.5N, 126-20.0W 16.0 STATION P 3

RESULTS OF STP CAST 792 POINTS TAKEN FROM DIGITAL SYSTEM

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	12.31	31.55	0	23.88	403.5	.00	.00	1494.
10	12.29	31.57	10	23.90	401.6	.40	.02	1494.
20	11.47	32.06	20	24.43	351.2	.79	.08	1492.
30	10.29	32.45	30	24.93	303.5	1.10	.16	1489.
50	9.64	32.50	50	25.08	289.9	1.69	.40	1487.
75	9.07	32.50	75	25.18	281.1	2.41	.85	1485.
100	8.60	32.66	99	25.37	263.0	3.09	1.46	1484.
125	8.20	33.25	124	25.89	213.9	3.69	2.15	1483.
150	8.06	33.62	149	26.21	184.5	4.19	2.85	1484.
175	7.63	33.76	174	26.37	168.9	4.63	3.57	1483.
200	7.37	33.88	199	26.51	156.7	5.03	4.34	1482.
225	6.75	33.94	224	26.64	144.3	5.41	5.16	1480.
250	6.24	33.97	248	26.73	135.6	5.76	6.01	1479.
300	5.80	33.98	298	26.79	130.1	6.42	7.86	1478.
400	4.58	34.09	397	27.02	108.7	7.63	12.15	1475.
500	4.20	34.19	496	27.14	97.9	8.67	16.90	1475.
600	4.05	34.22	595	27.18	94.7	9.62	22.27	1476.
800	3.70	34.27	793	27.26	88.3	11.45	35.27	1478.



301

OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 83-10-172 DATE 19/ 5/83

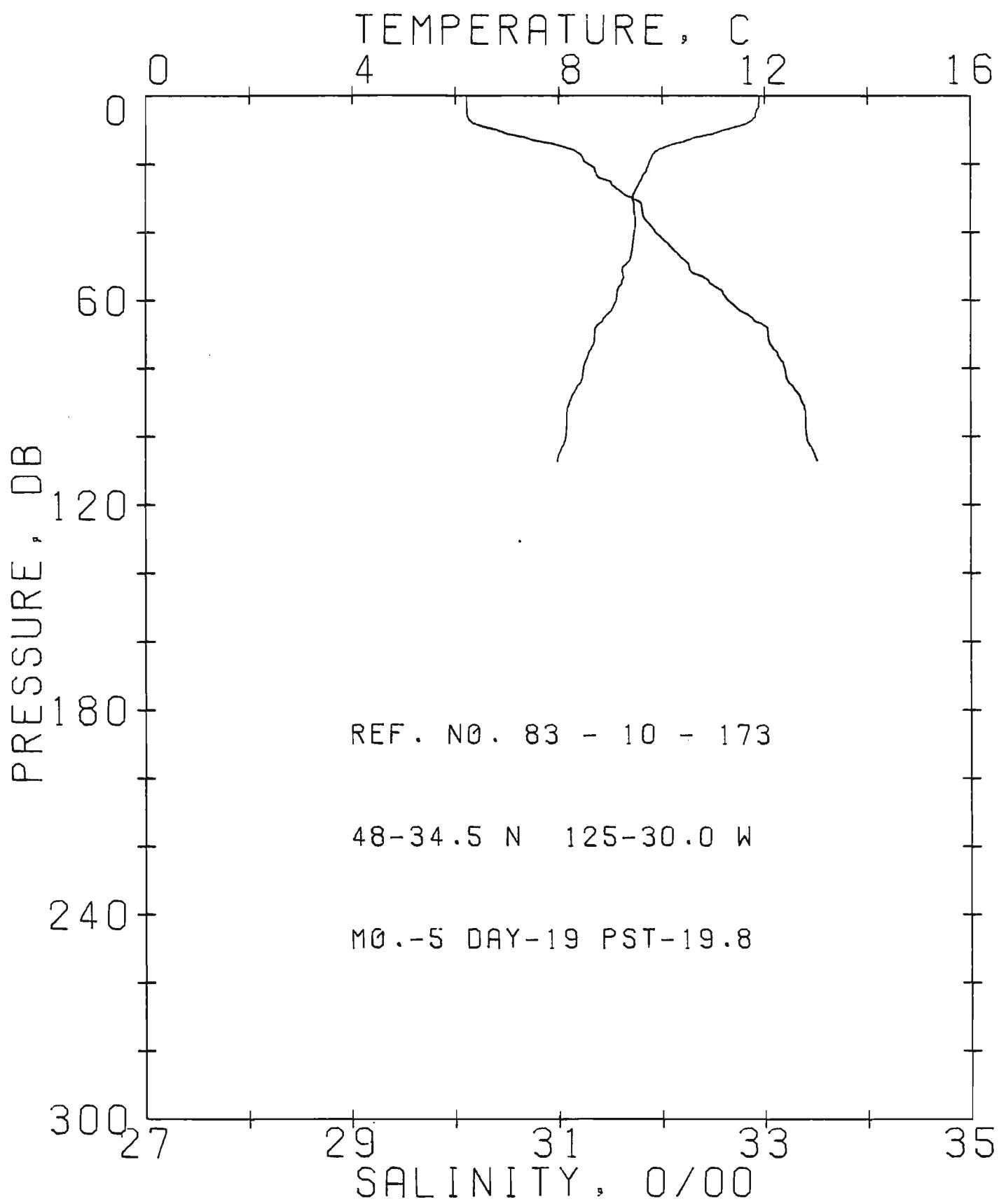
POSITION 48-36.ON, 126- .0W 17.8 STATION P 2

RESULTS OF STP CAST 112 POINTS TAKEN FROM DIGITAL SYSTEM

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	12.43	30.33	0	22.92	495.2	.00	.00	1493.
10	12.35	30.33	10	22.93	493.8	.49	.03	1493.
20	11.42	31.64	20	24.11	381.5	.95	.09	1492.
30	10.64	32.26	30	24.73	322.7	1.30	.18	1490.
50	9.98	32.46	50	25.00	297.5	1.92	.43	1488.
75	9.47	32.50	75	25.11	287.3	2.65	.90	1486.
100	8.71	33.15	99	25.74	228.0	3.34	1.51	1485.

302



303

OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 83-10-173 DATE 19/ 5/83

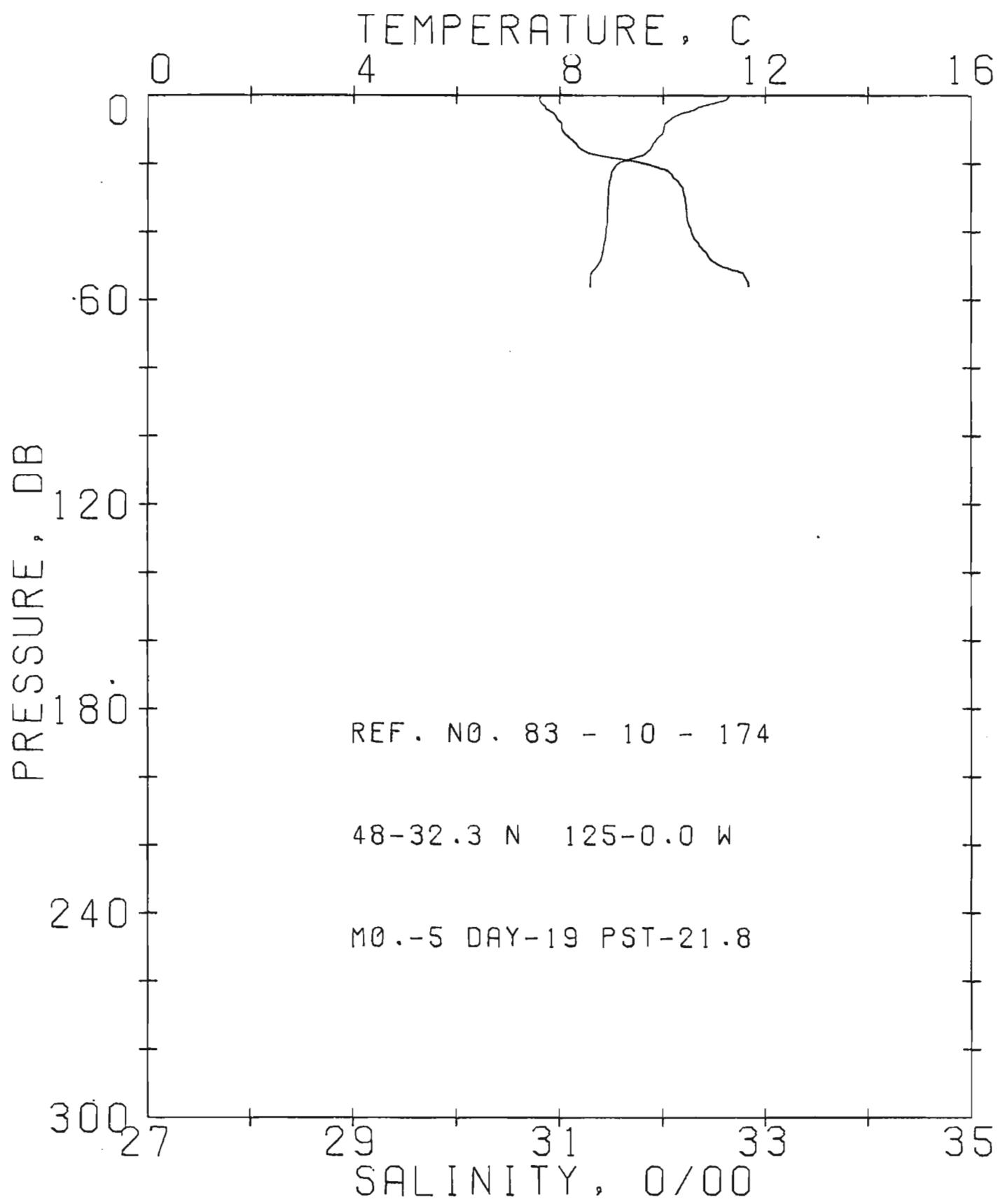
POSITION 48-34.5N, 125-30.0W 19.8 STATION P 1

RESULTS OF STP CAST 108 POINTS TAKEN FROM DIGITAL SYSTEM

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	11.90	30.11	0	22.85	502.0	.00	.00	1491.
10	11.18	30.43	10	23.22	467.0	.50	.03	1489.
20	9.74	31.30	20	24.13	379.4	.91	.09	1485.
30	9.42	31.72	30	24.52	343.3	1.27	.18	1485.
50	9.24	32.27	50	24.97	300.4	1.92	.44	1485.
75	8.59	33.13	75	25.74	227.7	2.57	.85	1484.
100	8.15	33.41	99	26.03	200.6	3.10	1.32	1483.

304



305

OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 83-10-174 DATE 19/ 5/83

POSITION 48-32.3N, 125- .0W 21.8 STATION JF4

RESULTS OF STP CAST 57 POINTS TAKEN FROM DIGITAL SYSTEM

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	11.30	30.82	0	23.50	439.7	.00	.00	1490.
10	10.03	31.02	10	23.87	404.1	.42	.02	1486.
20	9.12	31.84	20	24.65	330.0	.80	.08	1483.
30	8.94	32.22	30	24.98	299.4	1.11	.16	1483.
50	8.73	32.57	50	25.28	270.7	1.69	.39	1483.

307

OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 83- 10- 10 DATE 4/ 5/83

POSITION 52- 9.5 N, 131-38.9 W

HYDROGRAPHIC CAST DATA

21.9
STATION QC5

OBSERVED DATA

DEPTH	TEMP	SAL	OXY
0	9.93		6.850
10	9.92		6.830
20	9.87		6.830
30	10.05		6.760
50	9.43		6.630
75	8.91		6.270
100	8.32		6.090
150	7.46		4.350
200	6.72		2.920
300	5.74		2.180
400	5.22		1.670
500	4.72		1.220
600	4.38		.920
799	3.79		.470
997	3.36		.400
1195	2.96		.380

OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 83- 10- 19 DATE 5/ 4/83

POSITION 52-48.8 N, 132-26.0 W

HYDROGRAPHIC CAST DATA

2.7
STATION QC14

OBSERVED DATA

DEPTH	TEMP	SAL	OXY
0	10.24		6.860
10	10.20		6.890
20	10.07		6.890
30	9.82		6.700
50	9.14		6.630
75	8.42		6.370
100	8.11		5.490
125	7.88		5.030
150	7.73		4.270
175	7.19		3.820
200	6.53		3.030
250	6.14		2.620
299	5.51		2.040
399	5.00		1.450
499	4.50		.960
599	4.21		.730
798	3.78		.350

308

OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 83- 10- 29 DATE 7/ 5/83
POSITION 53-44.5 N, 133-47.0 W
HYDROGRAPHIC CAST DATA

1.5
STATION QC22

OBSERVED DATA

DEPTH	TEMP	SAL	OXY
0	9.56		6.780
10	9.55		6.790
20	9.34		6.820
30	9.22		6.800
50	8.21		6.640
75	7.82		6.690
100	7.78		5.820
125	7.31		5.080
150	6.87		4.160
175	6.55		3.790
200	6.32		3.510
249	5.80		2.950
299	5.49		2.380
397	4.84		1.550
496	4.34		1.200
594	4.22		.780
791	3.70		.440
990	3.23		.360
1190	2.91		.440
1394	2.55		.560

OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 83- 10- 76 DATE 10/ 5/83
POSITION 53-56.0 N, 131- 3.2 W
HYDROGRAPHIC CAST DATA

19.7
STATION R3

OBSERVED DATA

DEPTH	TEMP	SAL	OXY
0	10.15	31.141	7.324
10	10.05	31.144	7.295
20	9.71	31.321	6.826
30	9.44	31.387	6.600
50	9.52	31.509	6.627
72	8.45	31.809	5.747

309

OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 83- 10- 80

DATE 12/ 5/83

1.2

POSITION 53-15.5 N, 130-41.0 W

STATION W7

HYDROGRAPHIC CAST DATA

OBSERVED DATA

DEPTH	TEMP	SAL	OXY
-------	------	-----	-----

0			7.194
10			7.153
20			6.916
30			6.459
50			6.246
75			5.705
100			5.462
125			3.498
150			2.734
175			2.380

OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 83- 10- 83

DATE 12/ 5/83

2.6

POSITION 53-14.0 N, 130-51.1 W

STATION W9

HYDROGRAPHIC CAST DATA

OBSERVED DATA

DEPTH	TEMP	SAL	OXY
-------	------	-----	-----

0			7.100
10			7.423
20			6.586
30			6.070
50			6.030
75			5.871
100			5.423

310

OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 83- 10- 92 DATE 13/ 5/83

POSITION 52-22.2 N, 131- 5.3 W

HYDROGRAPHIC CAST DATA

14.8

STATION M12

OBSERVED DATA

DEPTH TEMP SAL OXY

0		7.399
10		7.414
20		7.007
30		6.626
50		6.313
75		5.806
100		6.042
115		4.686

OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 83- 10- 94 DATE 13/ 5/83

POSITION 52-24.0 N, 130-56.0 W

HYDROGRAPHIC CAST DATA

16.0

STATION M11

OBSERVED DATA

DEPTH TEMP SAL OXY

0		7.480
10		7.301
20		6.973
30		6.648
50		6.326
75		5.957
100		5.819
120		4.797

311

OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 83- 10- 98

DATE 13/ 5/83

18.2

POSITION 52-28.4 N, 130-29.0 W

STATION M8

HYDROGRAPHIC CAST DATA

OBSERVED DATA

DEPTH TEMP SAL OXY

0			6.987
10			7.037
20			7.053
30			6.510
50			6.605
75			6.091
100			6.104
125			5.778
150			4.688

OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 83- 10-101

DATE 13/ 5/83

20.6

POSITION 52-31.5 N, 130-10.8 W

STATION M6

HYDROGRAPHIC CAST DATA

OBSERVED DATA

DEPTH TEMP SAL OXY

0			6.908
10			5.954
20			6.954
30			6.659
50			6.612
75			6.218
100			6.017
125			5.431
150			3.802
175			2.839
200			2.427
250			1.935

312

OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 83- 10-104 DATE 13/ 5/83

POSITION 52-33.9 N, 129-56.6 W

HYDROGRAPHIC CAST DATA

22.0

STATION M4

OBSERVED DATA

DEPTH	TEMP	SAL	OXY
-------	------	-----	-----

0			6.876
10			7.417
20			6.780
30			6.609
50			6.294
75			6.009
100			5.942
125			4.937
150			3.779
175			2.909
200			2.141
250			1.947

OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 83- 10-107 DATE 13/ 5/83

POSITION 52-37.0 N, 129-37.8 W

HYDROGRAPHIC CAST DATA

23.9

STATION M2

OBSERVED DATA

DEPTH	TEMP	SAL	OXY
-------	------	-----	-----

0			6.982
10			7.186
20			6.864
30			6.585
50			6.378
75			6.011
100			5.311
125			4.252
150			3.731

313

OFFSHORE OCEANOGRAPHY GROUP
REFERENCE NO. 83- 10-128 DATE 15/ 5/83 17.4
POSITION 53-19.1 N, 130-19.3 W STATION W2
HYDROGRAPHIC CAST DATA

OBSERVED DATA

DEPTH	TEMP	SAL	OXY
0			7.010
10			7.053
20			6.568
30			6.445
50			6.335
75			5.973
100			5.304
115			5.148

OFFSHORE OCEANOGRAPHY GROUP
REFERENCE NO. 83- 10-132 DATE 15/ 5/83 19.2
POSITION 53-16.6 N, 130-33.9 W STATION W5
HYDROGRAPHIC CAST DATA

OBSERVED DATA

DEPTH	TEMP	SAL	OXY
0			6.832
10			6.662
20			6.539
30			6.452
50			6.045
75			5.646
100			4.558
125			3.160
150			2.957

314

OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 83- 10-135 DATE 15/ 5/83

POSITION 53-15.5 N, 130-41.0 W

HYDROGRAPHIC CAST DATA

20.4

STATION W7

OBSERVED DATA

DEPTH TEMP SAL OXY

0			6.989
10			6.946
20			6.773
30			6.301
50			5.964
75			5.705
100			5.017
125			3.288
150			2.932
175			2.600
185			2.600

OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 83- 10-165 DATE 17/ 5/83

POSITION 50-38.0 N, 131- 8.3 W

HYDROGRAPHIC CAST DATA

14.3

STATION H05

OBSERVED DATA

DEPTH TEMP SAL OXY

0	11.31	31.629	6.341
10	11.29	31.621	6.577
20	11.28	31.619	6.588
30	10.79	32.001	6.664
50	9.70	32.433	6.645
75	8.25	32.460	6.772
99	7.68	32.485	6.645
124	7.53	32.793	5.765
148	7.78	33.308	4.188
173	7.38	33.625	3.472
197	7.18	33.766	3.328
246	6.53	33.897	2.924
294	6.06	33.943	2.452
391	4.97	34.006	1.445
486	4.52	34.076	1.050
581	4.18	34.151	.668
771	3.66	34.282	.454
961	3.29	34.360	.359
1153	2.90	34.431	.470
1447	2.45	34.498	.755

315

OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 83- 10-170 DATE 19/ 5/83

POSITION 48-39.0 N, 126-40.0 W

HYDROGRAPHIC CAST DATA

14.1
STATION P04

OBSERVED DATA

DEPTH	TEMP	SAL	OXY
0	12.18	32.047	6.405
10	12.12	32.046	6.444
20	11.72	32.209	6.502
30	10.65	32.417	
50	9.87	32.484	6.244
75	9.49	32.487	6.229
100	9.33	32.635	5.852
125	9.45	33.227	4.332
150	8.85	33.562	3.454
175	8.27	33.796	2.872
199	7.75	33.868	2.926
249	6.87	33.952	2.690
299	6.35	34.006	1.793
398	5.61	34.031	1.353
497	5.09	34.109	.779
596	4.66	34.164	.453
795	3.89	34.288	.284
995	3.38	34.387	.323
1196	2.99	34.445	.436
1262	2.86	34.470	.542