

Water Property Observations Off the West Coast of Vancouver Island During CODE: May 1979 to September 1980

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

Institute of Ocean Sciences
Department of Fisheries and Oceans
Sidney, B.C. V8L 4B2

1984

**Canadian Data Report of
Hydrography and Ocean Sciences
No. 23 (1)**



Fisheries
and Oceans

Pêches
et Océans

Canada

Canadian Data Report Of Hydrography and Ocean Sciences

Data 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 contain raw and/or analyzed data but will not contain interpretations of the data. Such compilations commonly will 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 not intended for general distribution and the contents must not be referred to in other publications without prior written authorization from the issuing establishment. The correct citation appears above the abstract of each report. Data reports are abstracted in *Aquatic Sciences and Fisheries Abstracts* and indexed in the Department's annual index to scientific and technical publications.

Data reports are produced regionally but are numbered nationally. Requests for individual reports will be filled 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 is published in the *Canadian Journal of Fisheries and Aquatic Sciences*, Volume 39: Index to Publications 1982. The current series, which begins with report number 1, was initiated in January 1982.

Rapport statistique canadien sur l'hydrographie et les sciences océaniques

Les rapports statistiques 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'interprétation des données. Ces compilations sont préparées le plus souvent à l'appui de travaux liés aux programmes et intérêts du service des Sciences et levés océaniques (SLO) du ministère des Pêches et des Océans.

Les rapports statistiques ne sont pas destinés à une vaste distribution et leur contenu ne doit pas être mentionné dans une publication sans une autorisation écrite préalable de l'établissement auteur. Le titre exact paraît au-dessus du résumé de chaque rapport. Les rapports statistiques sont résumés dans la revue *Résumés des sciences halieutiques et aquariques*, et ils sont classés dans l'index annuel des publications scientifiques et techniques du Ministère.

Les rapports statistiques sont produits à l'échelon régional, mais numérotés à l'échelon national. Les demandes de rapports seront satisfaites par l'établissement auteur dont le nom figure sur la couverture et la page du titre. Les rapports épuisés sont 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 en décembre 1981. Une liste complète de ces publications figure dans le volume 39, Index des publications 1982, du *Journal canadien des sciences halieutiques et aquariques*. La série actuelle a commencé avec la publication du rapport numéro 1 en janvier 1982.

Canadian Data Report of Hydrography and Ocean Sciences No. 23(1)

1984

WATER PROPERTY OBSERVATIONS OFF THE WEST COAST OF VANCOUVER ISLAND DURING
CODE: MAY 1979 TO SEPTEMBER 1980

by

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

Institute of Ocean Sciences
Department of Fisheries and Oceans
Sidney, B.C. V8L 4B2

Copyright Minister of Supply and Services Canada - 1984

Cat. No. Fs 97-16/23 ISSN 0711-6721

Correct citation for this publication:

Thomson, R.E., W.R. Crawford and W.S. Huggett. 1984. Water property observations off the west coast of Vancouver Island during CODE: May 1979 to September 1980.

Can. Data Rep. Hydrogr. Ocean Sci. 23: (Vol. 1) 273 p.

CONTENTS

Volume 1

Abstract/Résumé	v
Acknowledgements	vi
Introduction	1
CTD Observations	4
Niskin Bottle Observations	4
Data Format	4
References	5
Cruise 79-12 (May 1979)	7
Cruise 79-14 (August 1979)	89
Cruise 79-15 (September 1979)	207

Volume 2

Cruise 80-10 (January 1980)	1
Cruise 80-11 (May 1980)	157

Volume 3

Cruise 80-13 (July 1980)	1
Cruise 80-14 (September 1980)	177

THIS PAGE IS BLANK

ABSTRACT

Thomson, R.E., W.R. Crawford and W.S. Huggett. 1984. Water property observations off the west coast of Vancouver Island during CODE: May 1979 to September 1980. Can. Data Rep. Hydrogr. Ocean Sci. 23: (Vols. 1,2,3)

This report presents listings of water property data collected during the Coastal Ocean Dynamics Experiment (CODE) off the west coast of Vancouver Island between May 1979 and September 1980. 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: Vancouver Island; water properties; CODE

RÉSUMÉ

Thomson, R.E., W.R. Crawford and W.S. Huggett. 1984. Water property observations off the west coast of Vancouver Island during CODE: May 1979 to September 1980. Can. Data Rep. Hydrogr. Ocean Sci. 23: (Vols. 1,2,3)

Le présent rapport fournit des listes de données sur les propriétés de l'eau recueillies au cours de l'Expérience sur la dynamique des eaux côtières (CODE) au large de la côte ouest de l'île Vancouver entre mai 1979 et septembre 1980. 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: île Vancouver, propriétés de l'eau, CODE.

ACKNOWLEDGEMENTS

We wish to thank the officers and crews of the CSS Parizeau, CNAV Endeavour and Pandora II for their cooperation during the CODE program. We also acknowledge the technical staff of the Tides and Currents and Ocean Physics Sections for their enthusiastic assistance with special thanks to Mike Woodward, Fred Hermiston, Fred Stephenson, Al Douglas, John Love, Cor de Jong, Bernard Minkley and Bruce Canning. Computational assistance was generously provided by Lilliane Wu, Joseph Linguanti, John Papadakis and David Ramsden.

INTRODUCTION

The CODE program was an interdisciplinary investigation of the circulation, water property variability and plankton distributions off the west coast of Vancouver Island. Moored arrays of current meters, pressure gauges and wind stations formed the core of the physical program (Figure 1). The spatial structure of the temperature, salinity and dissolved oxygen fields encompassing the moored arrays were obtained during numerous quasi-synoptic ship surveys. Much of the information collected during CODE has been presented in a variety of manuscripts and scientific papers. A list of these publications is provided in the references.

The purpose of this report is to make available the CTD and Niskin bottle data obtained during seven major CODE surveys that covered the full moored array over the Vancouver Island and continental margin. The times of the surveys are listed in Table 1; the station positions for each cruise are presented in a map preceding the data set.

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 armograph 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 tape 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. 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. Results from these comparisons are presented before the appropriate listings. 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 ‰ and 1% respectively. The variances are in part attributable to the presence of vertical property gradients, especially at depths shallower than 150 m. All temperature, salinity, sigma-t and sound speed values have been derived from the hydro-corrected CTD profiles.

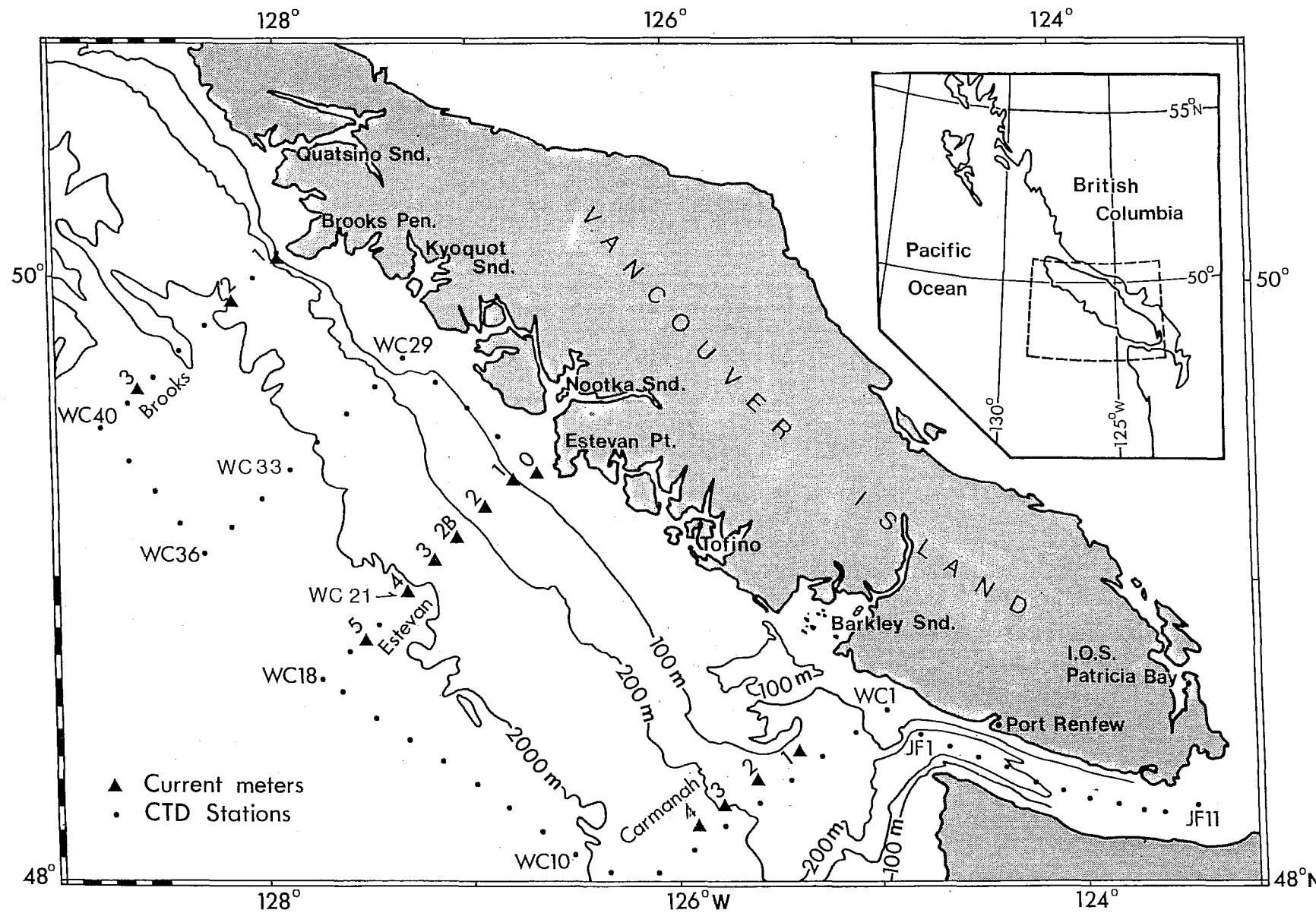


Figure 1. Map and location of stations

Table 1. The times of large-scale oceanographic ship surveys during the
Coastal Ocean Dynamics Experiment

CRUISE ID.	SURVEY PERIOD
79-12	6 May to 12 May 1979
79-14	3 Aug to 11 Aug 1979
79-15	23 Sep to 26 Sep 1979
80-10	15 Jan to 27 Jan 1980
80-11	30 Apr to 16 May 1980
80-13	22 Jul to 30 Jul 1980
80-14	3 Sep to 10 Sep 1980

NISKIN BOTTLE OBSERVATIONS

Rosette and hydro-cast observations using 1.7 litre Niskin bottles at standard depths were obtained at approximately each alternate survey station. 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 next page shows the "correction" curve applied to the CTD based on the water bottle observations; the facing page provides a summary of the number of stations processed plus the number of stations for which it has been possible to derive the depth of the near-homogeneous, surface wind-mixed layer. (The depth of the wind-mixed layer is listed after the CTD data and has been derived using the method of Papadakis (1981).) Also listed on this page are the oceanic parameters along with their corresponding symbols and units.

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. At the end of each listing, are the oceanographic quantities for the maximum depth of the profile followed (where possible) by the depth of the wind-mixed layer. The latter corresponds to the "elbow" or intersection of two straight lines fitted to the upper portion of the density profile (Papadakis, 1981).

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

REFERENCES

- Crawford, W.R. 1984. Energy flux and generation of shelf waves along Vancouver Island. *J. Phys. Oceanogr.*, (in press).
- Crawford, W.R. and R.E. Thomson. 1982. Continental shelf waves of diurnal period along Vancouver Island. *J. Geophys. Res.*, 87, 9516-9522.
- Crawford, W.R., R.E. Thomson and W.S. Huggett. 1983. Shelf waves of diurnal period along Vancouver Island, in *Coastal Oceanography*, Ed. H. Gade, A. Edwards and H. Svendsen, Plenum, 225-235.
- Crawford, W.R. and R.E. Thomson. 1984. Diurnal period continental shelf waves along Vancouver Island: A comparison of observations with theoretical model. *J. Phys. Oceanogr.*, (in press).
- de Jong, C. 1974. Reference manual for oceanographic technicians on the weatherships, unpublished manuscript, Dept. of the Environment, Marine Sciences Branch, 248 p.
- Denman, K.L., D.L. Mackas, H.J. Freeland, M.J. Austin and S.H. Hill. 1981. Persistent upwelling and meso-scale zones of high productivity off the west coast of Vancouver Island, Canada, in *Coastal Upwelling*, Ed. F. Richards, American Geophysical Union, Washington, D.C., 514-521.
- Denman, K.L. and H.J. Freeland. 1984. Correlation scales, objective mapping, and a statistical test of geostrophy over the continental shelf. *J. Phys. Oceanogr.*, (submitted).
- Forbes, J.R., H.A. Sefton and K. de Macedo. 1983. Phytoplankton productivity experiments in British Columbia coastal waters, 1982 and 1983. *Can. Data Rep. Hydrogr. Ocean Sci.* No. 14, 199 p.
- Freeland, H.J. and K.L. Denman. 1982. A topographically controlled upwelling center off southern Vancouver Island. *J. Mar. Res.*, 40, 1069-1093.
- Freeland, H.J. 1983. Low frequency currents observed off southern Vancouver Island, 1979-1981. *Can. Data Rep. Hydrogr. Ocean Sci.* No. 7, 80 p.
- Freeland, H.J., W.R. Crawford and R.E. Thomson. 1984. Currents along the Pacific coast of Canada. *Atmosphere-Ocean*, 22, 151-172.
- Hill, S., K. Denman, D. Mackas and H. Sefton. 1982. Ocean Ecology data report: Coastal waters off southwest Vancouver Island. Spring and Summer 1979. *Can. Data Rep. Hydrogr. Ocean Sci.* No. 3, 123 p.
- Hill, S., K. Denman, D. Mackas and H. Sefton. 1982. Ocean Ecology data report: Coastal waters off southwest Vancouver Island. Spring and Summer 1980. *Can. Data Rep. Hydrogr. Ocean Sci.* No. 4, 103 p.
- Hill, S., K. Denman, D. Mackas, H. Sefton and R. Forbes. 1983. Ocean Ecology data report: Coastal waters off southwest Vancouver Island. Spring and Summer 1981. *Can. Data Rep. Hydrogr. Ocean Sci.* No. 8, 98 p.

Mackas, D.L., G.C. Louttit and M.J. Austin. 1980. Spatial distribution of zooplankton and phytoplankton in British Columbia coastal waters. *Can. J. Fish. Aquat. Sci.*, 37, 1476-1487.

Mackas, D.L. and H.A. Sefton. 1982. Plankton species assemblages off southern Vancouver Island: Geographic pattern and temporal variability. *J. Mar. Res.*, 40, 1173-1200.

Mackas, D.L. 1984. Spatial autocorrelation of plankton community composition in a continental shelf ecosystem. *Limnol. Oceanogr.*, 29, 451-471.

Mackas, D.L., K.L. Denman and M. Abbott. 1985. Plankton patchiness: Biology in the physical vernacular. *Bull. Mar. Sci.*, (submitted).

Papadakis, J.E. 1981. Determination of the oceanic wind mixed layer depth by an extension of Newton's Method. *Pac. Marine Sci. Rep.*, 81-9 (Institute of Ocean Sciences), 32 p.

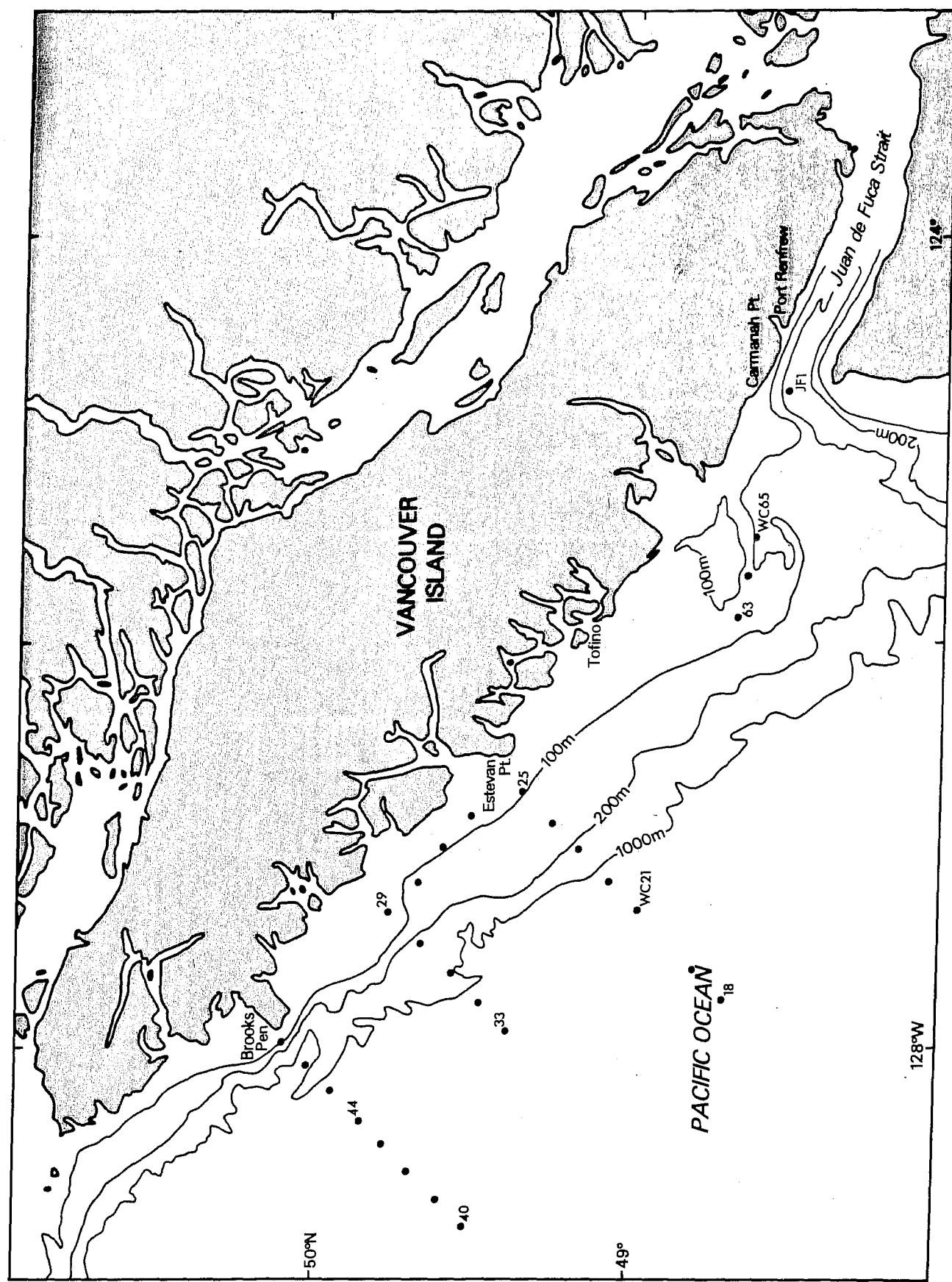
Thomson, R.E. 1983. A comparison between computed and measured oceanic winds near the British Columbia coast. *J. Geophys. Res.*, 88, No. C4, 2675-2683.

Thomson, R.E. and W.R. Crawford. 1982. The generation of diurnal period shelf waves by tidal currents. *J. Phys. Oceanogr.*, 12, 635-643.

Thomson, R.E. 1984. A cyclonic eddy over the continental margin of Vancouver Island: Evidence for baroclinic instability. *J. Phys. Oceanogr.*, (in press).

CRUISE 79-12

MAY 1979



COASTAL OCEANIC DYNAMICS EXPERIMENT

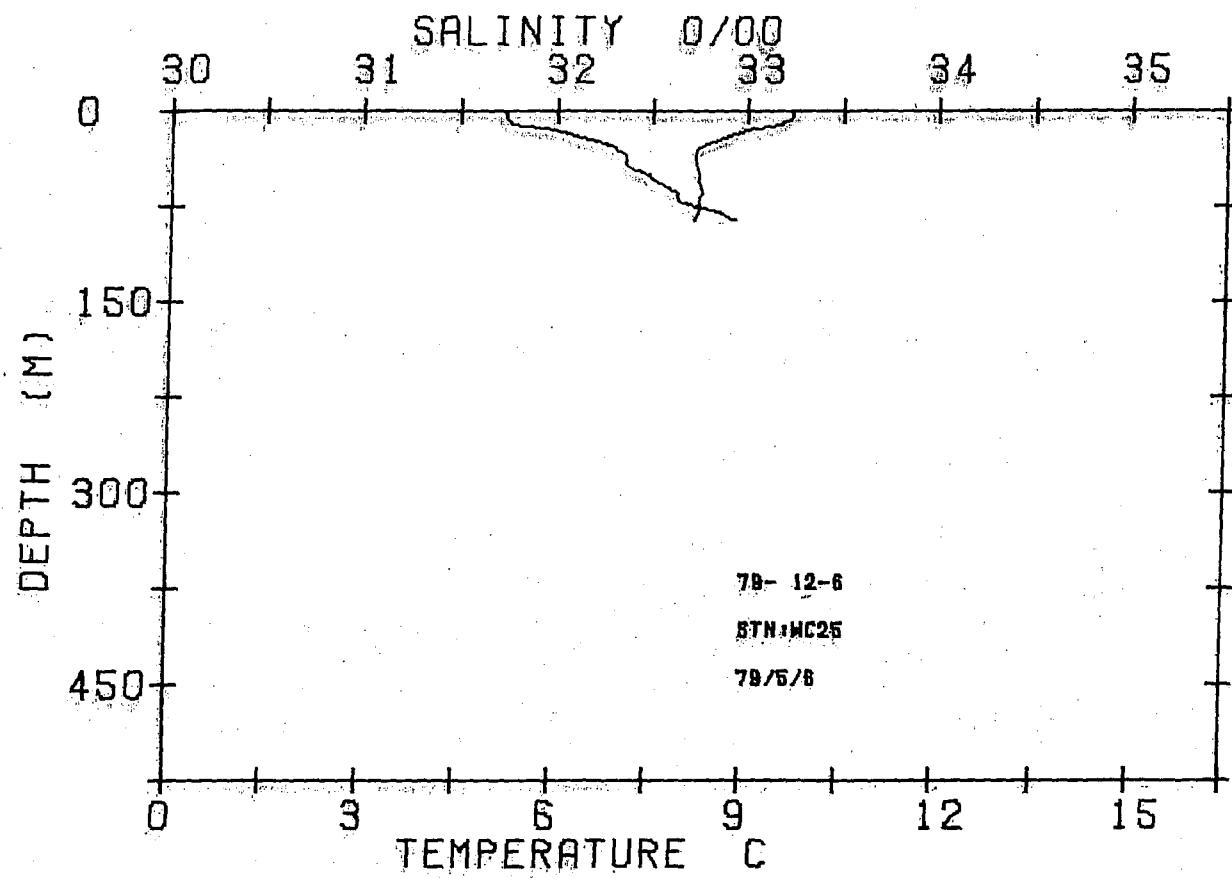
CRUISE 79-12. MAY 6 - MAY 12, 1979

A. CRUISE SUMMARY :

1. NUMBER OF STATIONS PROCESSED : 36
2. NUMBER OF STATIONS OF DEPTH GREATER THAN 120.0 METRES FOR WHICH THE DEPTH OF WIND MIXED LAYER COULD BE IDENTIFIED : 24

B. PARAMETERS, SYMBOLS, UNITS :

DEPTH : DEPTH : METRES
TEMPERATURE : TEMP : DEGREES CELCIUS
SALINITY : SAL : GRAMS PER KILOGRAM
SIGMA - T : SIG-T : (DIMENSIONLESS)
SPECIFIC VOLUME ANOMALY : SVA : $10\text{EXP}(-5)*\text{CM}*\text{EXP}(3)/\text{GRAM}$
GEOPOTENTIAL ANOMALY : DELTA-D : JOULES/KGR
POTENTIAL ENERGY : POT.EN : $10\text{EXP}(8)\text{ERGS}/(\text{CM}*\text{CM})$
SPEED OF SOUND : SOUND : METRES/SECOND. -WILSON 1960-



CRUISE : C.O.D.E. 79-12.
 STATION: WC25 CONS HOU6
 LAT N 49 21.2 LONG W 126 44.4
 DATE 79/05/06 TIME (PST) 0917

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT. EN	SOUND
0	9.69	31.73	24.48	346.0	.00	.00	1485.1
10	9.54	31.77	24.53	341.4	.34	.02	1484.7
20	8.73	32.09	24.91	305.4	.66	.06	1482.3
30	8.19	32.31	25.16	281.8	.96	.14	1480.6
50	8.21	32.48	25.29	269.8	1.51	.36	1481.3
75	8.26	32.73	25.48	252.2	2.16	.77	1482.2

DEEPEST MEASUREMENT :

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT. EN	SOUND
85.1	8.17	32.94	25.65	235.9	2.41	.96	1482.3

THIS PAGE IS BLANK

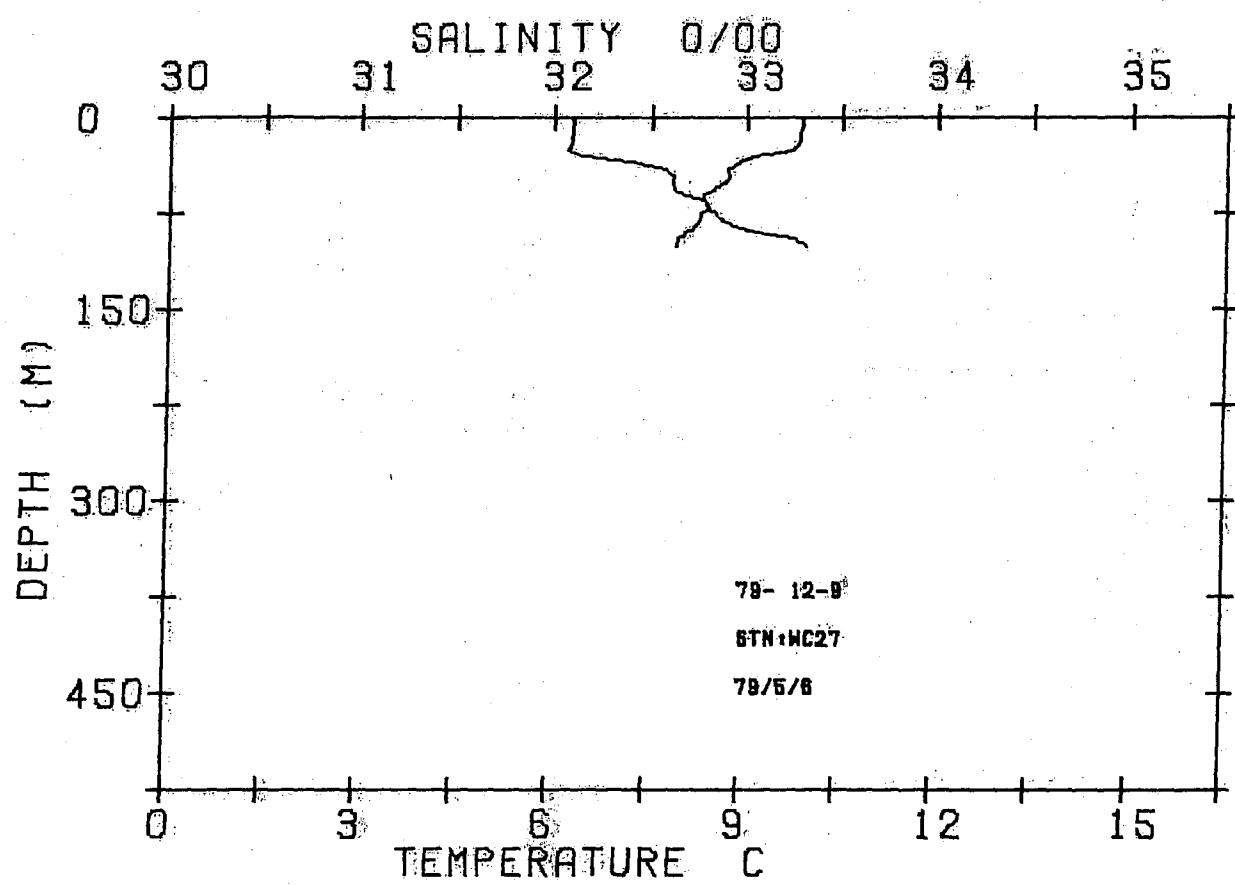
CRUISE : C.O.D.E. 79-12.

STATION: WC26 CONS #008
 LAT N 49 30.5 LONG W 126 51.3
 DATE 79/05/06 TIME (PST) 1115

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
0	9.58	31.76	24.52	342.4	.00	.00	1484.7
10	9.57	31.77	24.53	341.3	.34	.02	1484.8
20	9.38	31.92	24.67	328.1	.68	.07	1484.5
30	9.00	32.05	24.83	313.1	1.00	.15	1483.4
50	8.34	32.26	25.11	286.5	1.60	.39	1481.5

DEEPEST MEASUREMENT :

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
65.5	8.28	32.34	25.17	281.6	2.03	.64	1481.6

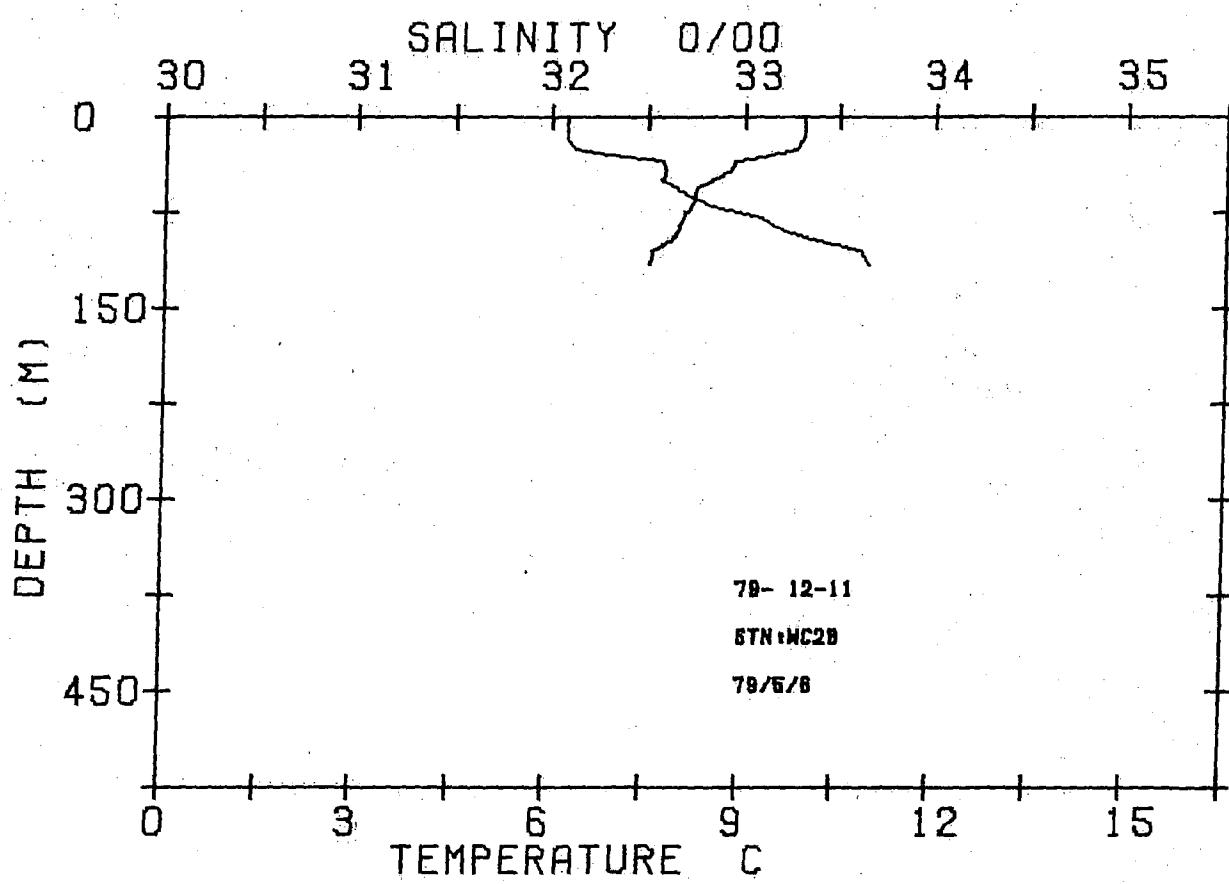


CRUISE : C.O.D.E. 79-12.
 STATION: WC27 CONS #009
 LAT N 49 35.9 LONG W 127 01.2
 DATE 79/05/06 TIME (PST) 1205

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
0	9.88	32.09	24.73	322.5	.00	.00	1486.2
10	9.85	32.10	24.74	321.8	.32	.02	1486.3
20	9.81	32.09	24.74	321.6	.64	.06	1486.3
30	9.11	32.14	24.89	307.3	.96	.14	1483.9
50	8.67	32.61	25.32	266.7	1.52	.36	1483.2
75	8.28	32.84	25.56	244.3	2.15	.76	1482.4
100	7.89	33.32	26.00	203.6	2.72	1.26	1481.9

DEEPEST MEASUREMENT :

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
100.1	7.89	33.32	26.00	203.5	2.72	1.26	1481.9



CRUISE : C.O.O.E. 79-12.

STATION: WC28 CONS #011

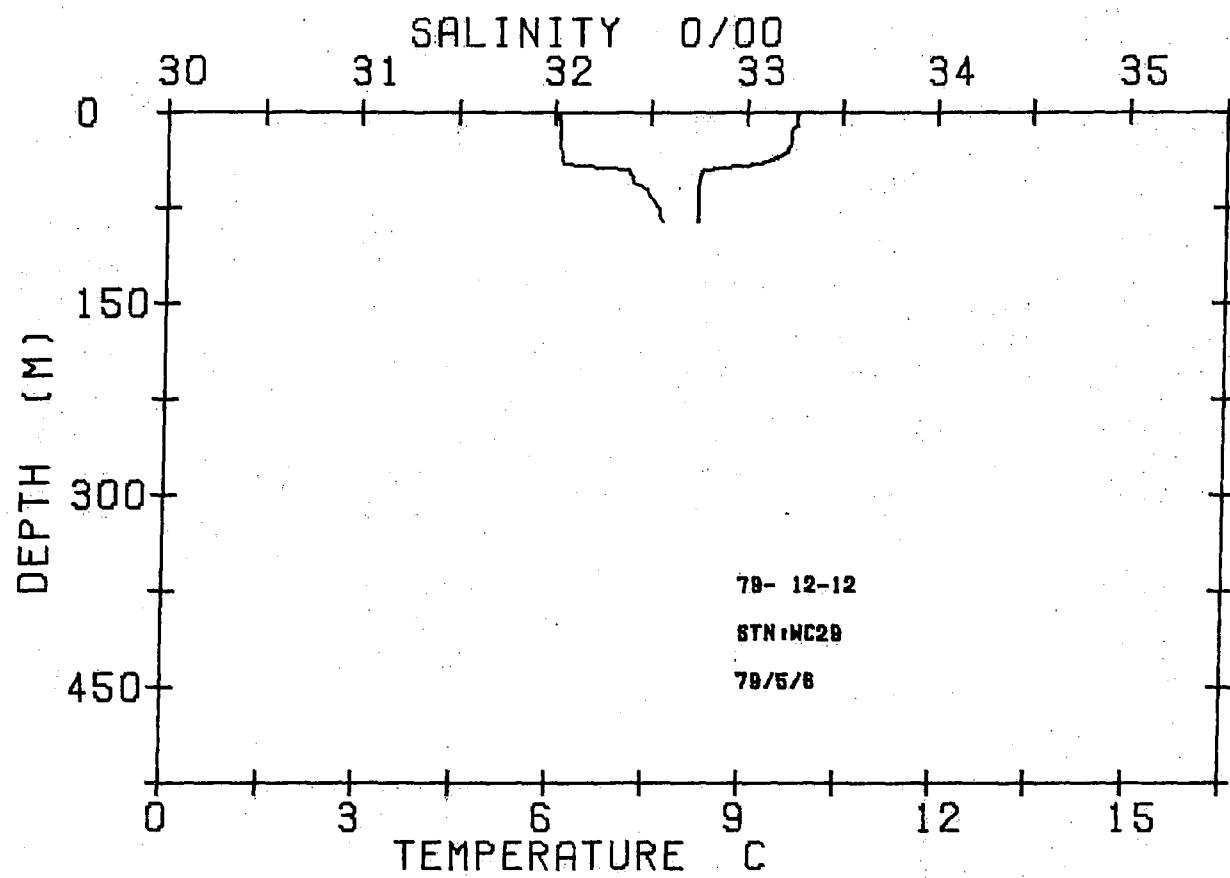
LAT N 49 40.4 LONG W 127 10.8

DATE 79/05/06 TIME (PST) 1311

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
0	9.92	32.08	24.71	324.3	.00	.00	1486.4
10	9.92	32.08	24.72	323.9	.32	.02	1486.5
20	9.88	32.10	24.73	322.5	.65	.06	1486.6
30	9.39	32.31	24.98	299.3	.96	.14	1485.2
50	8.48	32.57	25.32	267.0	1.51	.36	1482.4
75	8.09	32.98	25.70	231.3	2.14	.75	1481.8
100	7.75	33.49	26.15	188.9	2.67	1.21	1481.6

DEEPEST MEASUREMENT :

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
115.0	7.52	33.66	26.32	173.3	2.93	1.50	1481.2

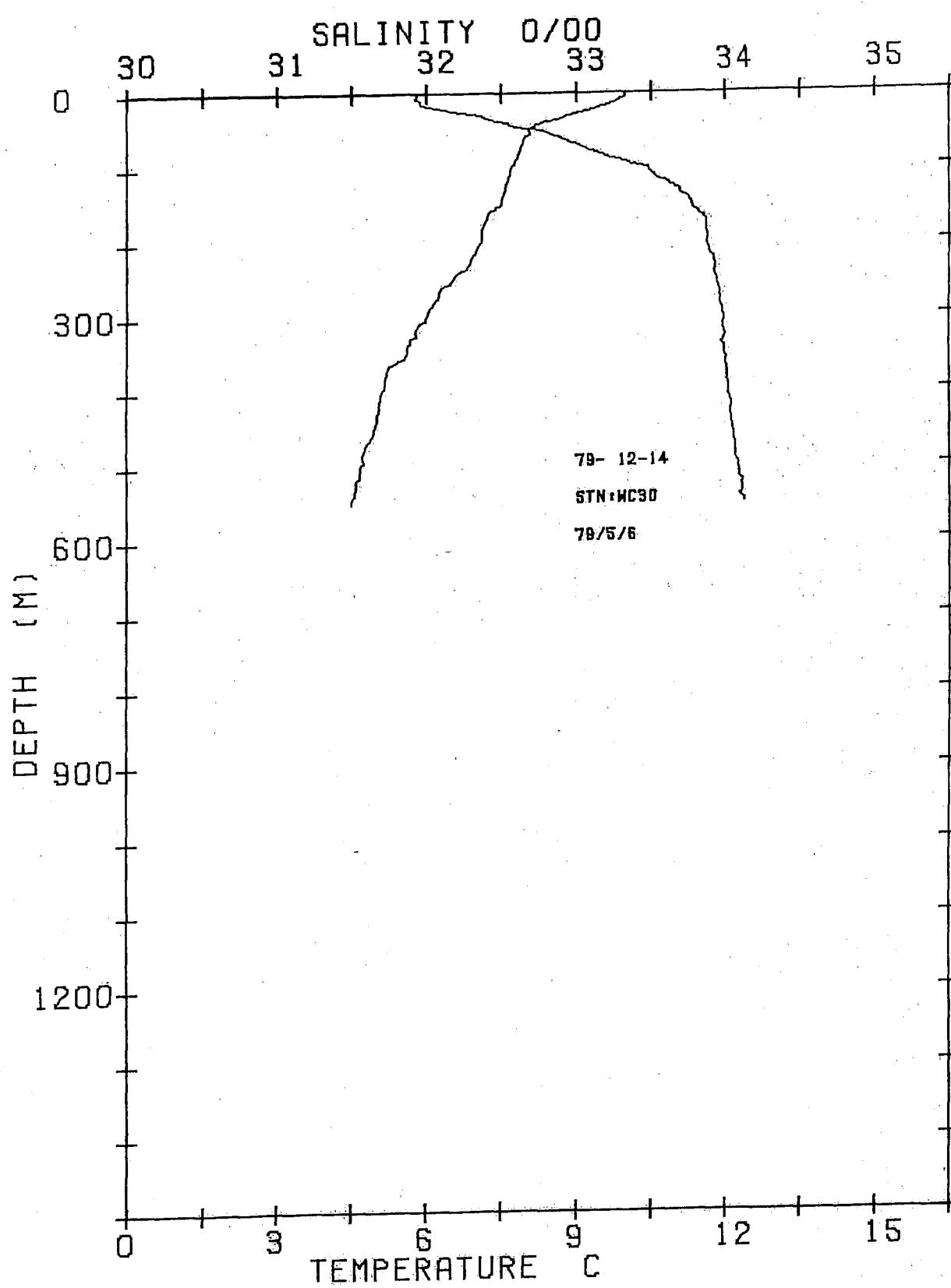


CRUISE : C.O.D.E. 79-12.
 STATION: WC29 CONS #012
 LAT N 49 46.0 LONG W 127 20.0
 DATE 79/05/06 TIME (PST) 1410

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT. EN	SOUND
0	9.79	32.02	24.69	326.6	.00	.00	1485.8
10	9.79	32.03	24.69	326.1	.33	.02	1486.0
20	9.70	32.03	24.71	324.7	.65	.07	1485.8
30	9.66	32.04	24.73	323.3	.98	.15	1485.8
50	8.29	32.41	25.22	276.1	1.58	.39	1481.5
75	8.24	32.55	25.34	265.1	2.26	.81	1481.9

DEEPEST MEASUREMENT :

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT. EN	SOUND
85.4	8.24	32.57	25.36	263.8	2.54	1.03	1482.1



CRUISE : C.O.D.E. 79-12.

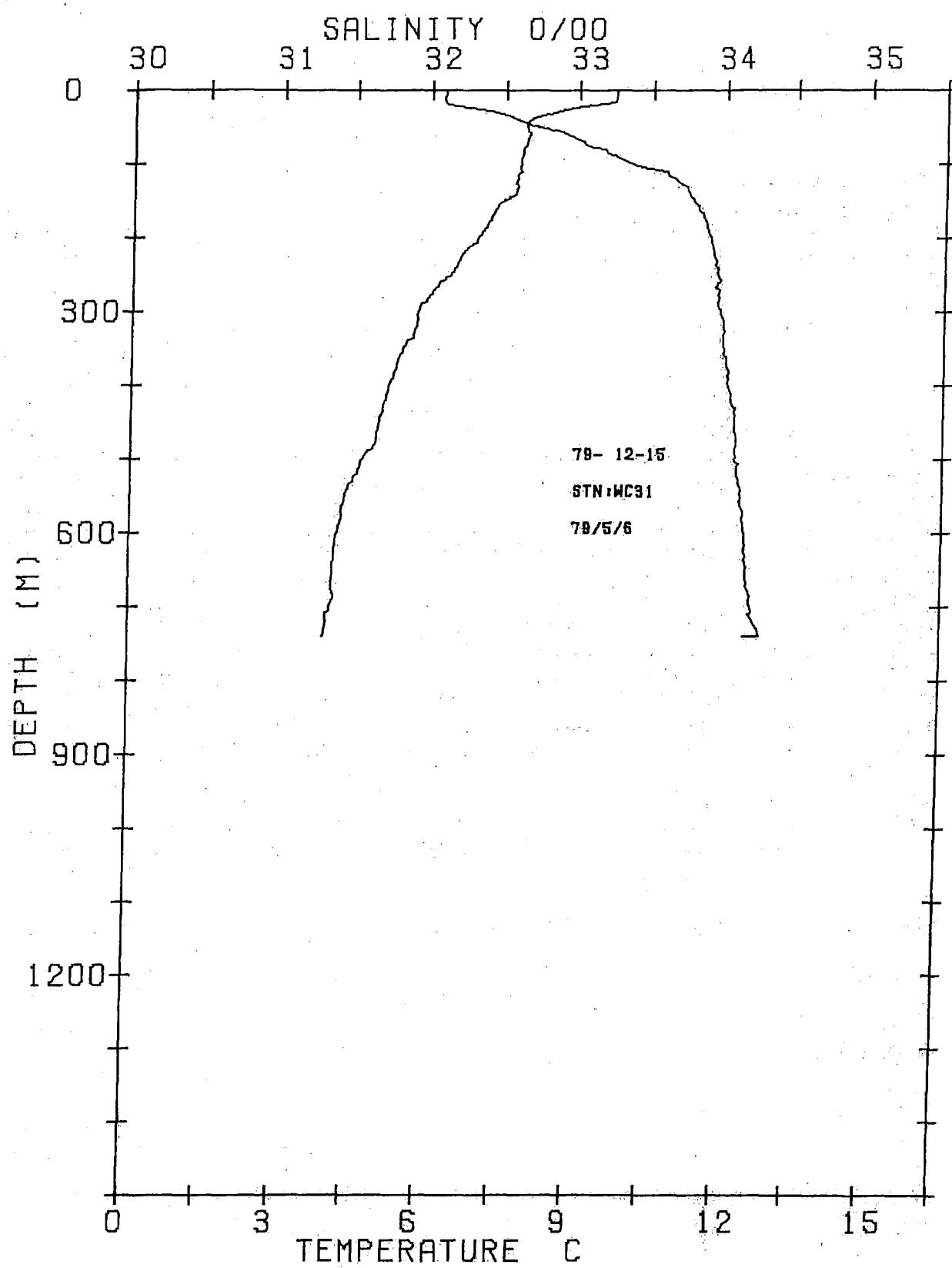
STATION: WC30 CONS #014
 LAT N 49 40.0 LONG W 127 29.0
 DATE 79/05/06 TIME (PST) 1527

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT. EN	SOUND
0	9.95	31.93	24.59	335.8	.00	.00	1486.3
10	9.88	31.95	24.62	333.4	.34	.02	1486.2
20	9.46	32.06	24.78	318.3	.66	.07	1484.9
30	8.84	32.37	25.11	286.8	.96	.14	1483.2
50	8.03	32.78	25.55	245.2	1.50	.35	1481.0
75	7.88	33.07	25.80	221.5	2.08	.72	1481.2
100	7.70	33.48	26.15	189.2	2.60	1.17	1481.4
125	7.58	33.66	26.31	174.1	3.06	1.68	1481.6
150	7.49	33.77	26.41	165.3	3.48	2.26	1481.8
175	7.18	33.87	26.53	154.3	3.88	2.91	1481.1
200	7.10	33.87	26.54	153.5	4.26	3.62	1481.2
225	6.91	33.92	26.60	147.5	4.64	4.42	1480.9
250	6.54	33.94	26.67	141.3	5.00	5.28	1479.9
300	6.00	33.99	26.78	131.4	5.68	7.15	1478.6
400	5.11	34.02	26.91	119.7	6.93	11.53	1476.7
500	4.69	34.09	27.02	110.1	8.09	16.71	1476.7

DEEPEST MEASUREMENT :

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT. EN	SOUND
550.1	4.49	34.13	27.07	105.7	8.63	19.55	1476.7

WIND MIXED LAYER DEPTH = 10.1 METRES



CRUISE : C.O.O.E. 79-12.

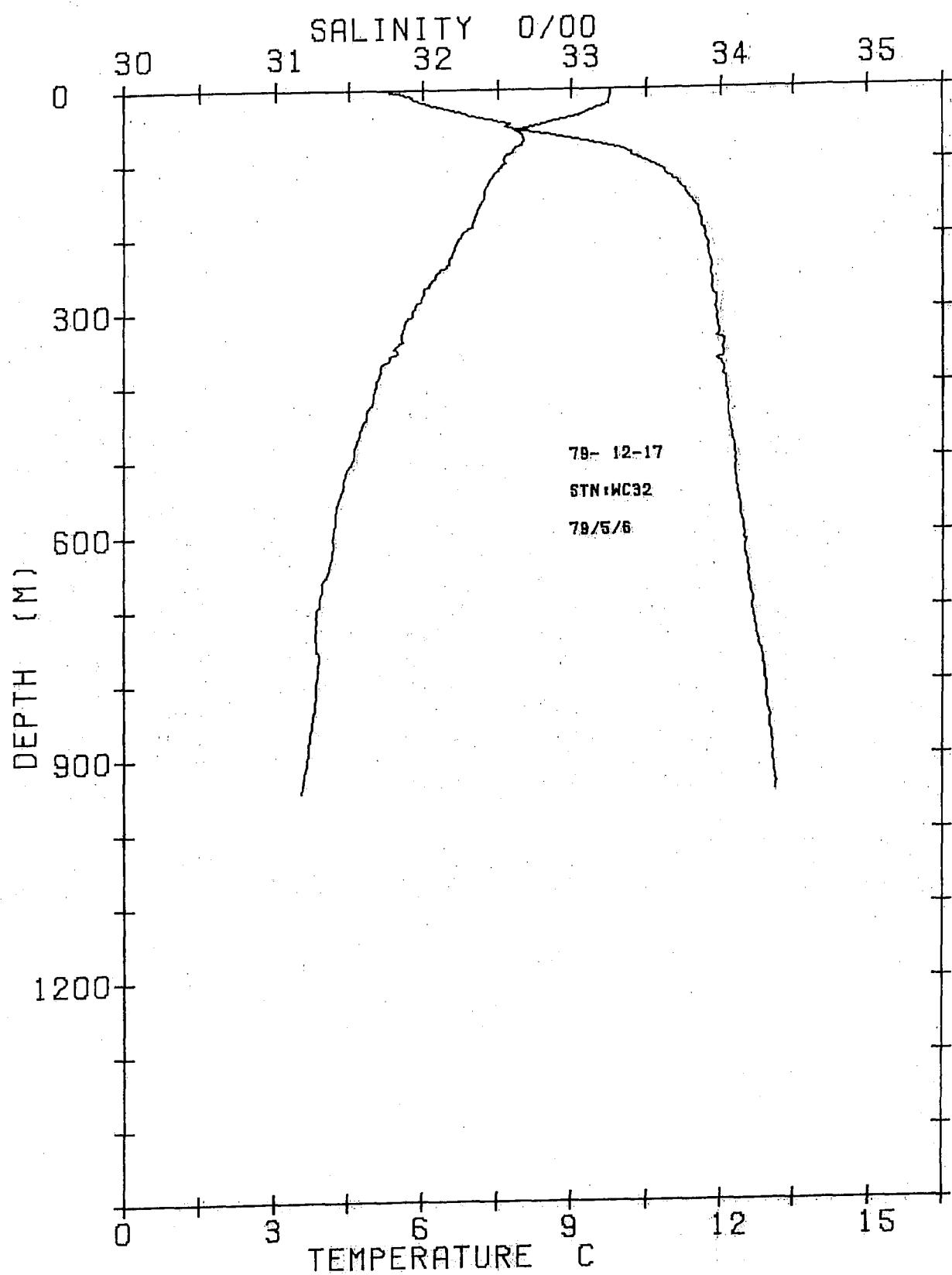
STATION: WC31 CONS #015
 LAT N 49 35.0 LONG W 127 36.0
 DATE 79/05/06 TIME (PST) 1731

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT. EN	SOUND
0	9.74	32.09	24.75	320.7	.00	.00	1485.7
10	9.74	32.08	24.74	321.4	.32	.02	1485.9
20	9.32	32.10	24.83	313.4	.64	.06	1484.5
30	8.51	32.44	25.22	276.6	.93	.14	1482.0
50	7.91	32.73	25.53	247.1	1.45	.34	1480.4
75	7.92	33.06	25.78	223.2	2.03	.70	1481.3
100	7.82	33.37	26.05	198.7	2.55	1.16	1481.7
125	7.72	33.69	26.31	174.3	3.01	1.67	1482.2
150	7.46	33.78	26.42	164.2	3.44	2.26	1481.7
175	7.23	33.86	26.51	155.6	3.83	2.90	1481.3
200	6.98	33.89	26.58	149.8	4.22	3.62	1480.8
225	6.63	33.93	26.65	143.2	4.58	4.40	1479.8
250	6.41	33.95	26.70	138.8	4.93	5.23	1479.4
300	5.78	33.97	26.79	130.0	5.61	7.08	1477.7
400	5.22	34.03	26.90	120.4	6.86	11.46	1477.1
500	4.70	34.08	27.01	111.2	8.01	16.63	1476.7
600	4.20	34.16	27.12	100.9	9.06	22.39	1476.4

DEEPEST MEASUREMENT :

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT. EN	SOUND
740.7	3.94	34.17	27.16	97.7	10.43	31.55	1477.6

WIND MIXED LAYER DEPTH = 14.2 METRES



CRUISE : C.O.D.E. 79-12.

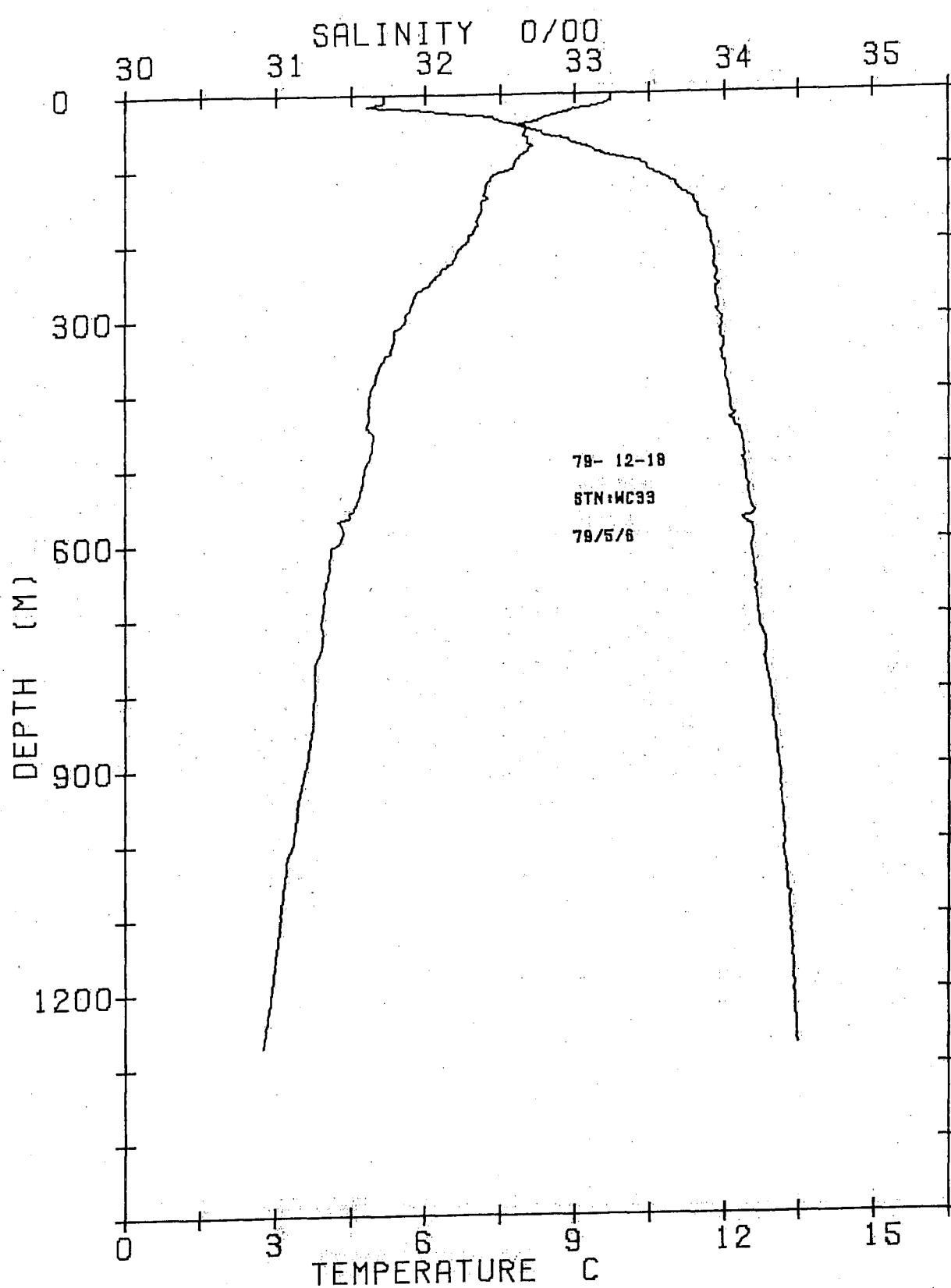
STATION: WC32 CONS #017
 LAT N 49 29.4 LONG W 127 45.9
 DATE 79/05/06 TIME (PST) 2103

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
0	9.79	31.77	24.49	345.0	.00	.00	1485.5
10	9.77	31.93	24.62	333.0	.34	.02	1485.8
20	9.74	32.03	24.71	324.9	.67	.07	1485.9
30	9.34	32.23	24.93	304.2	.98	.14	1484.9
50	8.23	32.55	25.34	264.7	1.55	.37	1481.4
75	7.98	33.24	25.92	210.6	2.14	.73	1481.8
100	7.64	33.52	26.19	185.4	2.63	1.16	1481.2
125	7.33	33.70	26.38	167.7	3.06	1.65	1480.7
150	7.19	33.81	26.48	158.5	3.47	2.21	1480.7
175	7.03	33.87	26.55	152.2	3.86	2.84	1480.5
200	6.74	33.90	26.61	146.2	4.23	3.54	1479.8
225	6.57	33.92	26.65	142.7	4.59	4.30	1479.6
250	6.28	33.93	26.70	138.6	4.94	5.14	1478.9
300	5.78	33.97	26.79	130.0	5.61	6.99	1477.7
400	5.06	34.03	26.93	118.0	6.85	11.32	1476.5
500	4.58	34.10	27.03	108.3	7.98	16.39	1476.3
600	4.21	34.17	27.13	100.2	9.02	22.11	1476.4
800	3.85	34.32	27.28	86.5	10.88	35.08	1478.4

DEEPEST MEASUREMENT :

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
945.2	3.55	34.38	27.37	79.3	12.09	45.59	1479.6

WIND MIXED LAYER DEPTH = 21.3 METRES



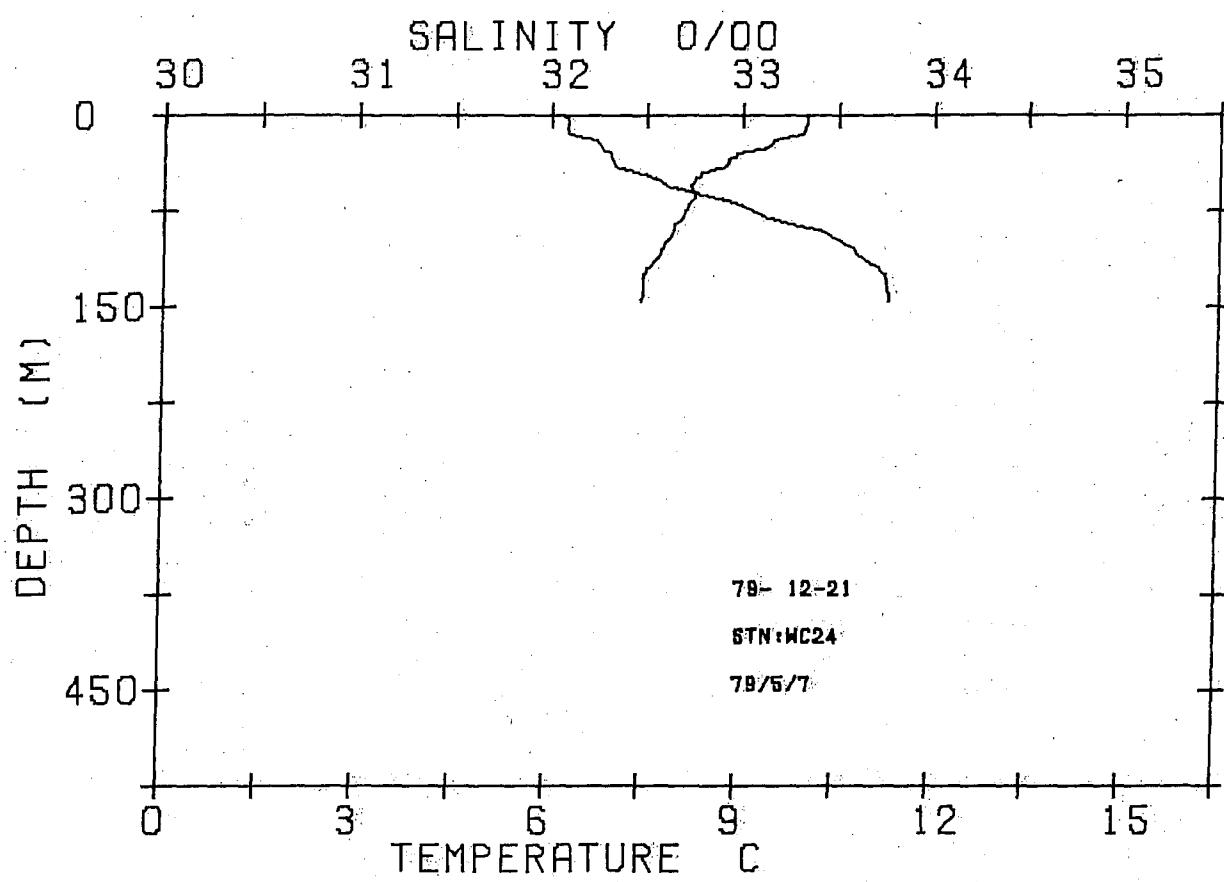
CRUISE : C.O.D.E. 79-12.
 STATION: WC33 CONS #018
 LAT N 49 23.2 LONG W 127 55.0
 DATE 79/05/06 TIME (PST) 2243

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
0	9.72	31.72	24.46	347.8	.00	.00	1485.1
10	9.72	31.72	24.46	347.9	.35	.02	1485.3
20	9.01	31.91	24.73	323.2	.69	.07	1483.1
30	8.43	32.44	25.23	275.3	.99	.14	1481.7
50	7.99	32.77	25.55	245.0	1.51	.35	1480.8
75	8.05	33.13	25.82	219.7	2.09	.71	1481.9
100	7.75	33.49	26.15	189.0	2.59	1.15	1481.6
125	7.21	33.69	26.38	167.5	3.03	1.64	1480.2
150	7.13	33.82	26.50	156.7	3.44	2.20	1480.4
175	7.04	33.88	26.56	151.3	3.82	2.82	1480.6
200	6.80	33.91	26.61	146.1	4.19	3.52	1480.1
225	6.53	33.93	26.67	141.4	4.55	4.28	1479.5
250	6.15	33.93	26.71	137.2	4.90	5.10	1478.3
300	5.60	33.98	26.82	127.2	5.56	6.91	1477.0
400	4.89	34.03	26.94	116.3	6.78	11.18	1475.8
500	4.78	34.14	27.04	107.9	7.90	16.22	1477.1
600	4.26	34.19	27.14	99.0	8.93	21.89	1476.7
800	3.74	34.32	27.29	85.5	10.77	34.72	1477.9
1000	3.35	34.41	27.40	75.8	12.38	49.14	1479.7
1200	2.93	34.47	27.50	67.5	13.79	64.67	1481.3

DEEPEST MEASUREMENT :

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
1271.2	2.76	34.50	27.53	64.1	14.26	70.47	1481.8

WIND MIXED LAYER DEPTH = 10.6 METRES



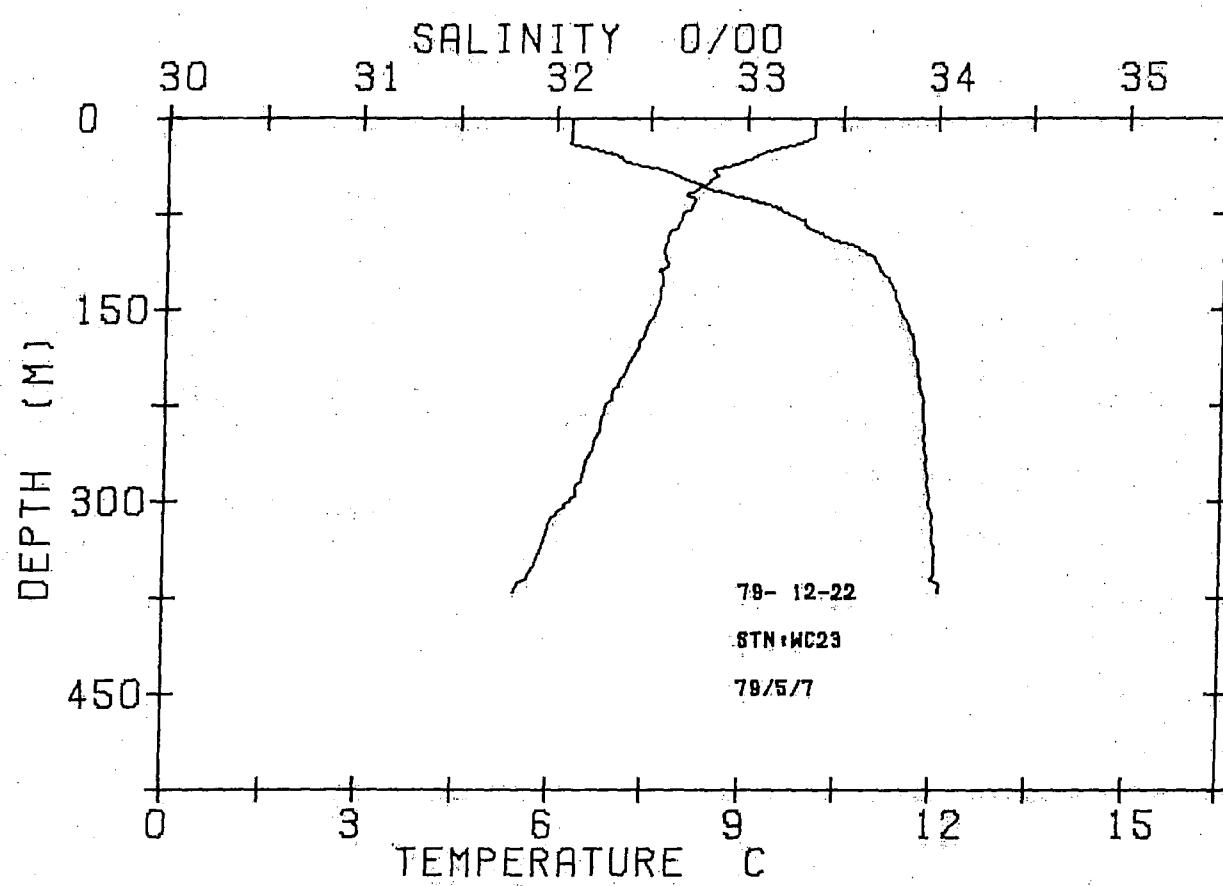
CRUISE : C.O.D.E. 79-12.

STATION: WC24 CONS #021
 LAT N 49 15.8 LONG W 126 53.3
 DATE 79/05/07 TIME (PST) 1535

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
0	10.00	32.06	24.69	326.5	.00	.00	1486.6
10	9.96	32.08	24.71	324.5	.32	.02	1486.7
20	9.48	32.24	24.91	305.7	.64	.06	1485.3
30	8.93	32.31	25.05	292.4	.94	.14	1483.4
50	8.27	32.55	25.34	265.2	1.51	.36	1481.6
75	8.11	33.06	25.76	225.7	2.13	.75	1482.0
100	7.81	33.54	26.18	186.2	2.64	1.19	1481.9
125	7.48	33.75	26.39	166.2	3.08	1.69	1481.3

DEEPEST MEASUREMENT :

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
145.0	7.45	33.77	26.41	165.0	3.41	2.13	1481.6



CRUISE : C.O.D.E. 79-12.

STATION: WC23 CONS #022

LAT N 49 10.2 LONG W 127 02.0

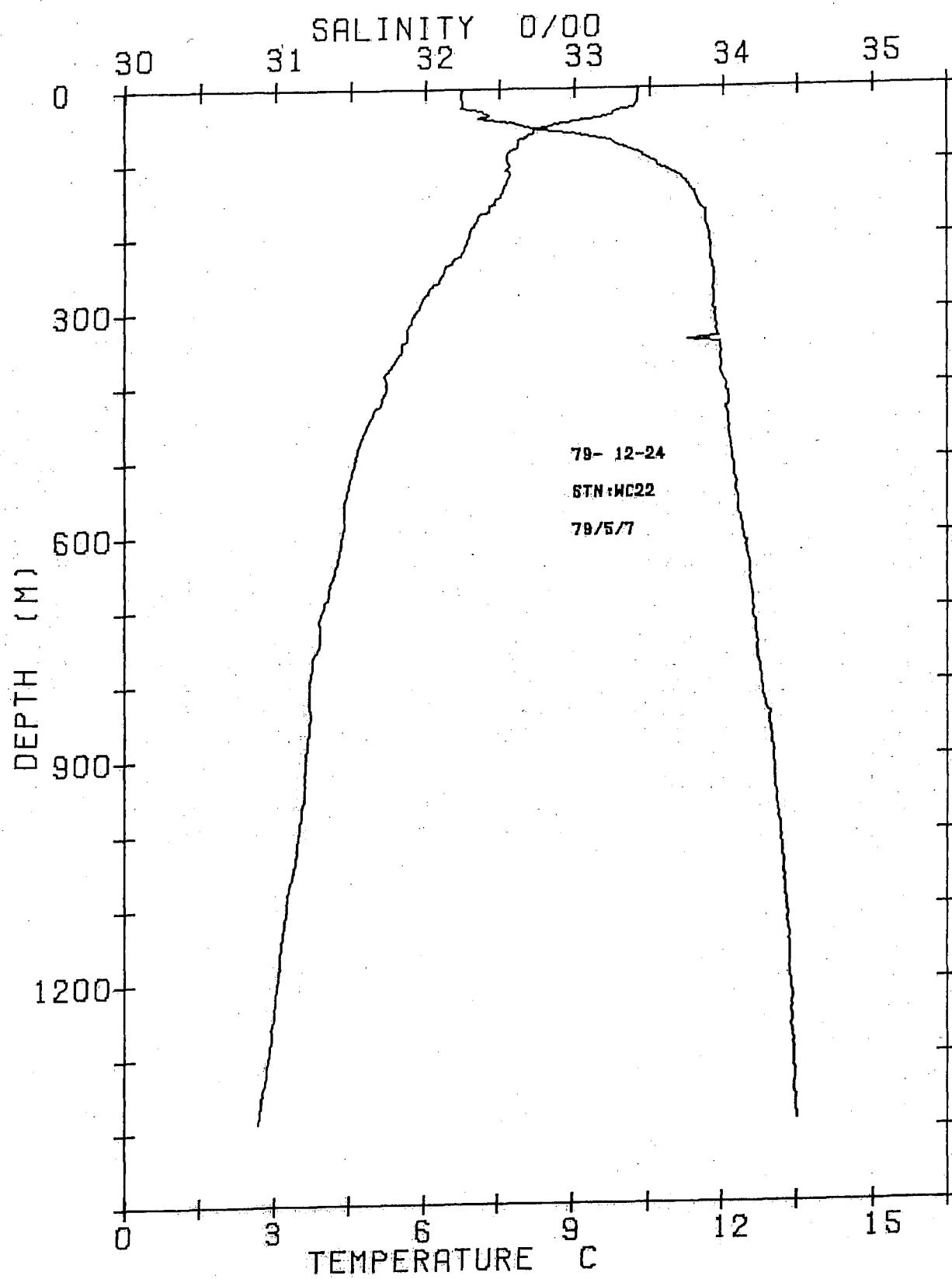
DATE 79/05/07 TIME (PST) 1833

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
0	10.06	32.08	24.69	326.3	.00	.00	1486.9
10	10.05	32.08	24.69	326.1	.33	.02	1487.0
20	9.83	32.07	24.72	324.1	.65	.07	1486.4
30	9.15	32.34	25.04	293.1	.96	.14	1484.3
50	8.46	32.73	25.45	254.8	1.50	.36	1482.5
75	8.05	33.22	25.89	213.1	2.08	.72	1482.0
100	7.77	33.59	26.23	181.5	2.58	1.15	1481.8
125	7.73	33.75	26.35	170.0	3.02	1.64	1482.3
150	7.66	33.82	26.42	163.9	3.44	2.22	1482.5
175	7.39	33.89	26.51	155.6	3.84	2.87	1482.0
200	7.17	33.91	26.56	151.0	4.22	3.58	1481.5
225	6.88	33.94	26.62	145.8	4.59	4.37	1480.8
250	6.73	33.94	26.64	143.9	4.95	5.23	1480.7
300	6.30	33.97	26.73	136.8	5.65	7.16	1479.8

DEEPEST MEASUREMENT :

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
370.1	5.44	34.03	26.88	122.7	6.56	10.19	1477.6

WIND MIXED LAYER DEPTH = 15.2 METRES



CRUISE : C.O.D.E. 79-12.

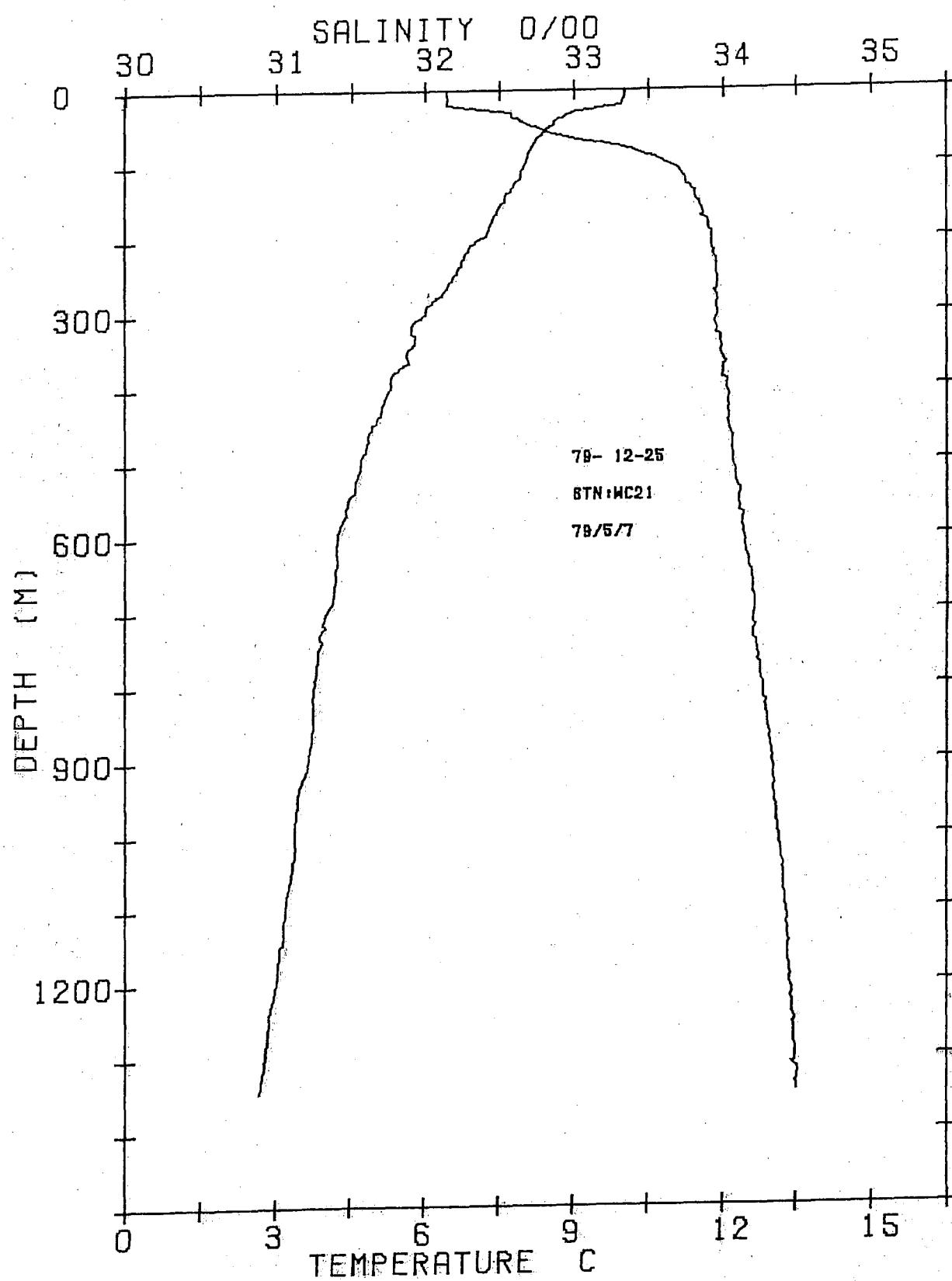
STATION: WC22 CONS H024
 LAT N 49 04.8 LONG W 127 11.1
 DATE 79/05/07 TIME (PST) 2023

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
0	10.26	32.25	24.79	316.9	.00	.00	1487.8
10	10.25	32.24	24.78	317.7	.32	.02	1487.9
20	10.26	32.25	24.79	317.1	.63	.06	1488.1
30	9.84	32.39	24.97	300.5	.95	.14	1486.9
50	8.60	32.65	25.36	262.9	1.52	.37	1483.0
75	7.90	33.28	25.96	206.1	2.09	.72	1481.5
100	7.68	33.55	26.20	183.8	2.57	1.14	1481.4
125	7.67	33.75	26.36	169.1	3.02	1.64	1482.1
150	7.43	33.83	26.46	160.1	3.43	2.20	1481.6
175	7.09	33.88	26.55	152.0	3.82	2.84	1480.8
200	6.89	33.91	26.60	147.5	4.19	3.54	1480.4
225	6.71	33.92	26.64	144.4	4.56	4.32	1480.1
250	6.36	33.94	26.69	139.3	4.91	5.15	1479.2
300	5.83	33.95	26.77	132.3	5.59	7.02	1477.9
400	5.22	34.02	26.90	120.4	6.86	11.47	1477.1
500	4.60	34.07	27.01	110.7	8.02	16.67	1476.3
600	4.34	34.15	27.10	103.1	9.09	22.53	1477.0
800	3.70	34.27	27.27	88.0	10.99	35.79	1477.7
1000	3.49	34.40	27.39	77.6	12.64	50.66	1480.3
1200	3.07	34.47	27.48	69.3	14.11	66.73	1481.9

DEEPEST MEASUREMENT :

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
1388.2	2.66	34.51	27.55	62.8	15.36	82.89	1483.3

WIND MIXED LAYER DEPTH = 25.8 METRES



CRUISE : C.O.D.E. 79-12.

STATION: WC21 CONS #025

LAT N 48 59.0 LONG W 127 20.0

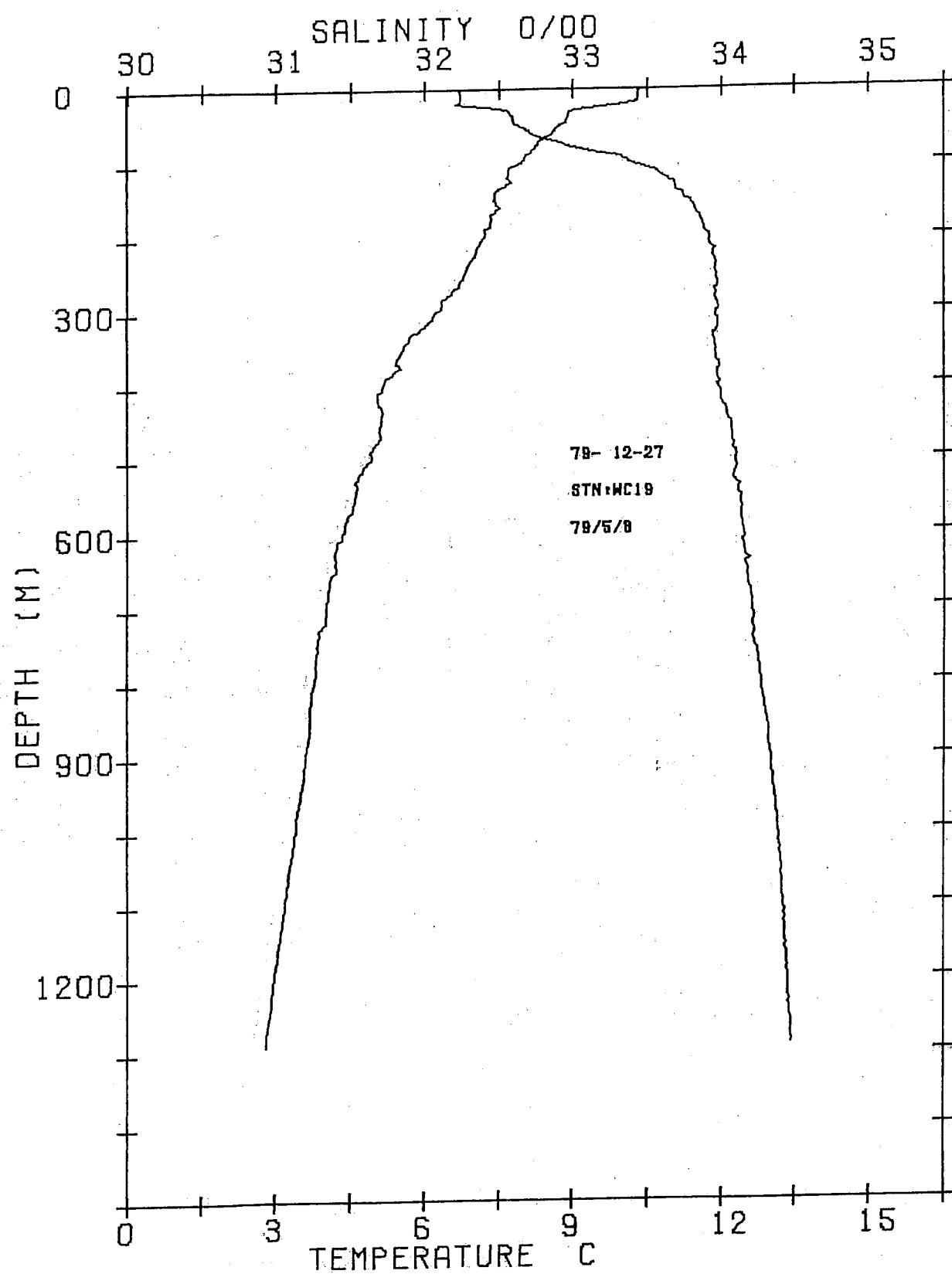
DATE 79/05/07 TIME (PST) 2223

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
0	10.03	32.14	24.74	321.5	.00	.00	1486.8
10	10.02	32.15	24.75	321.0	.32	.02	1487.0
20	9.96	32.14	24.75	320.5	.64	.06	1486.9
30	8.93	32.57	25.25	272.9	.94	.14	1483.8
50	8.48	32.77	25.48	252.1	1.47	.35	1482.7
75	8.16	33.34	25.97	205.6	2.05	.71	1482.6
100	8.02	33.65	26.24	180.9	2.53	1.13	1482.9
125	7.79	33.75	26.35	170.6	2.96	1.62	1482.5
150	7.58	33.84	26.45	161.7	3.38	2.19	1482.2
175	7.34	33.90	26.53	154.1	3.77	2.83	1481.8
200	7.09	33.92	26.58	149.8	4.15	3.54	1481.3
225	6.77	33.95	26.65	143.1	4.52	4.32	1480.4
250	6.57	33.96	26.68	140.5	4.88	5.16	1480.0
300	5.99	33.96	26.75	133.8	5.56	7.05	1478.6
400	5.30	34.02	26.89	121.6	6.84	11.51	1477.5
500	4.71	34.07	27.00	112.2	8.01	16.75	1476.7
600	4.22	34.15	27.11	101.9	9.07	22.62	1476.5
800	3.76	34.28	27.26	88.5	10.98	35.91	1478.0
1000	3.40	34.39	27.38	77.8	12.64	50.83	1479.9
1200	3.02	34.46	27.48	69.3	14.10	66.88	1481.7

DEEPEST MEASUREMENT :

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
1345.0	2.70	34.51	27.55	62.8	15.05	78.97	1482.8

WIND MIXED LAYER DEPTH = 19.0 METRES



CRUISE : C.O.D.E. 79-12.

STATION: WC19 CONS #027

LAT N 48 47.8 LONG W 127 37.3

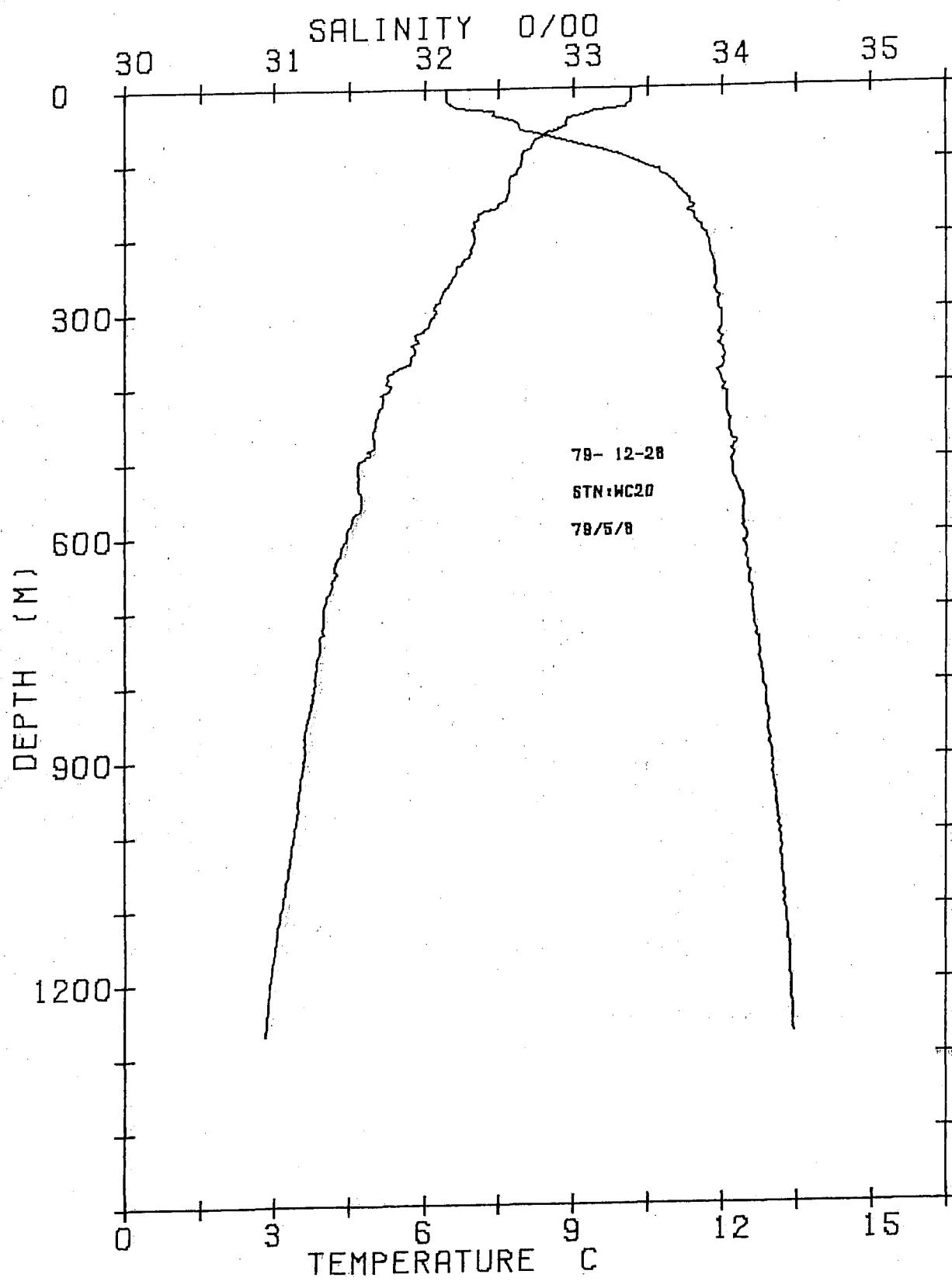
DATE 79/05/08 TIME (PST) 1720

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
0	10.34	32.23	24.76	319.5	.00	.00	1488.1
10	10.33	32.24	24.77	319.0	.32	.02	1488.2
20	10.10	32.21	24.78	317.8	.64	.06	1487.5
30	8.96	32.57	25.25	273.4	.93	.14	1483.9
50	8.75	32.63	25.33	266.3	1.47	.35	1483.5
75	8.28	32.96	25.66	235.3	2.10	.74	1482.6
100	7.96	33.41	26.05	198.1	2.63	1.21	1482.3
125	7.73	33.68	26.30	174.9	3.09	1.72	1482.2
150	7.38	33.79	26.43	162.8	3.51	2.30	1481.4
175	7.35	33.86	26.49	157.4	3.91	2.95	1481.8
200	7.20	33.92	26.56	151.3	4.30	3.67	1481.7
225	7.01	33.94	26.61	147.0	4.67	4.47	1481.4
250	6.80	33.96	26.65	143.2	5.03	5.33	1481.0
300	6.24	33.96	26.73	136.8	5.73	7.25	1479.6
400	5.15	33.98	26.87	123.4	7.03	11.77	1476.8
500	4.93	34.10	27.00	112.3	8.20	17.04	1477.7
600	4.32	34.16	27.11	101.9	9.27	22.92	1476.9
800	3.77	34.28	27.26	88.5	11.17	36.18	1478.0
1000	3.41	34.39	27.39	77.3	12.82	51.01	1479.9
1200	3.00	34.46	27.48	68.8	14.29	67.10	1481.6

DEEPEST MEASUREMENT :

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
1290.0	2.81	34.48	27.52	65.7	14.90	74.67	1482.3

WIND MIXED LAYER DEPTH = 18.7 METRES



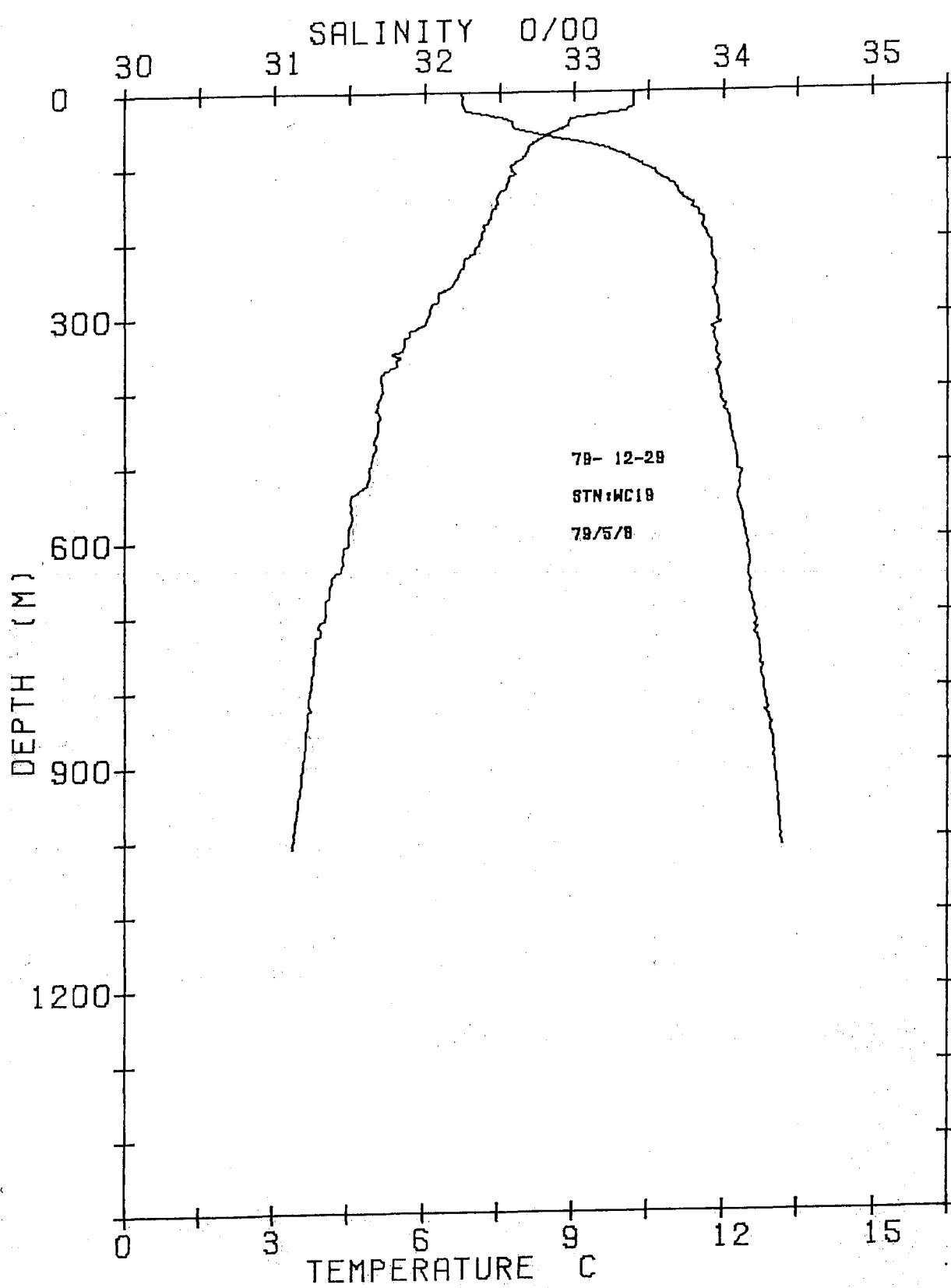
CRUISE : C.O.D.E. 79-12.
 STATION: WC20 CONS #028
 LAT N 48 53.1 LONG W 127 28.7
 DATE 79/05/08 TIME (PST) 1917

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
0	10.18	32.14	24.72	323.4	.00	.00	1487.4
10	10.17	32.15	24.72	323.1	.32	.02	1487.5
20	10.14	32.17	24.75	321.1	.65	.06	1487.6
30	9.47	32.47	25.09	288.9	.96	.14	1485.7
50	8.87	32.64	25.31	267.7	1.51	.36	1484.0
75	8.18	33.05	25.74	227.2	2.13	.75	1482.3
100	7.95	33.44	26.08	195.3	2.65	1.20	1482.3
125	7.72	33.67	26.29	175.8	3.12	1.72	1482.1
150	7.66	33.78	26.39	166.9	3.55	2.31	1482.5
175	7.08	33.81	26.50	157.1	3.95	2.97	1480.6
200	7.01	33.90	26.57	150.1	4.33	3.68	1480.9
225	6.89	33.93	26.62	146.3	4.70	4.47	1480.9
250	6.64	33.95	26.67	141.8	5.06	5.32	1480.3
300	6.23	33.99	26.75	134.6	5.75	7.22	1479.6
400	5.33	34.02	26.88	122.2	7.04	11.71	1477.6
500	4.70	34.06	26.99	112.5	8.21	16.97	1476.7
600	4.47	34.17	27.10	103.2	9.29	22.91	1477.5
800	3.81	34.28	27.26	88.5	11.20	36.25	1478.2
1000	3.41	34.39	27.39	77.6	12.86	51.12	1479.9
1200	2.92	34.47	27.49	67.6	14.31	67.04	1481.3

DEEPEST MEASUREMENT :

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
1270.2	2.81	34.49	27.52	65.6	14.78	72.82	1482.0

WIND MIXED LAYER DEPTH = 22.1 METRES



CRUISE : C.O.D.E. 79-12.

STATION: WC19 CONS #029

LAT N 48 47.8 LONG W 127 37.3

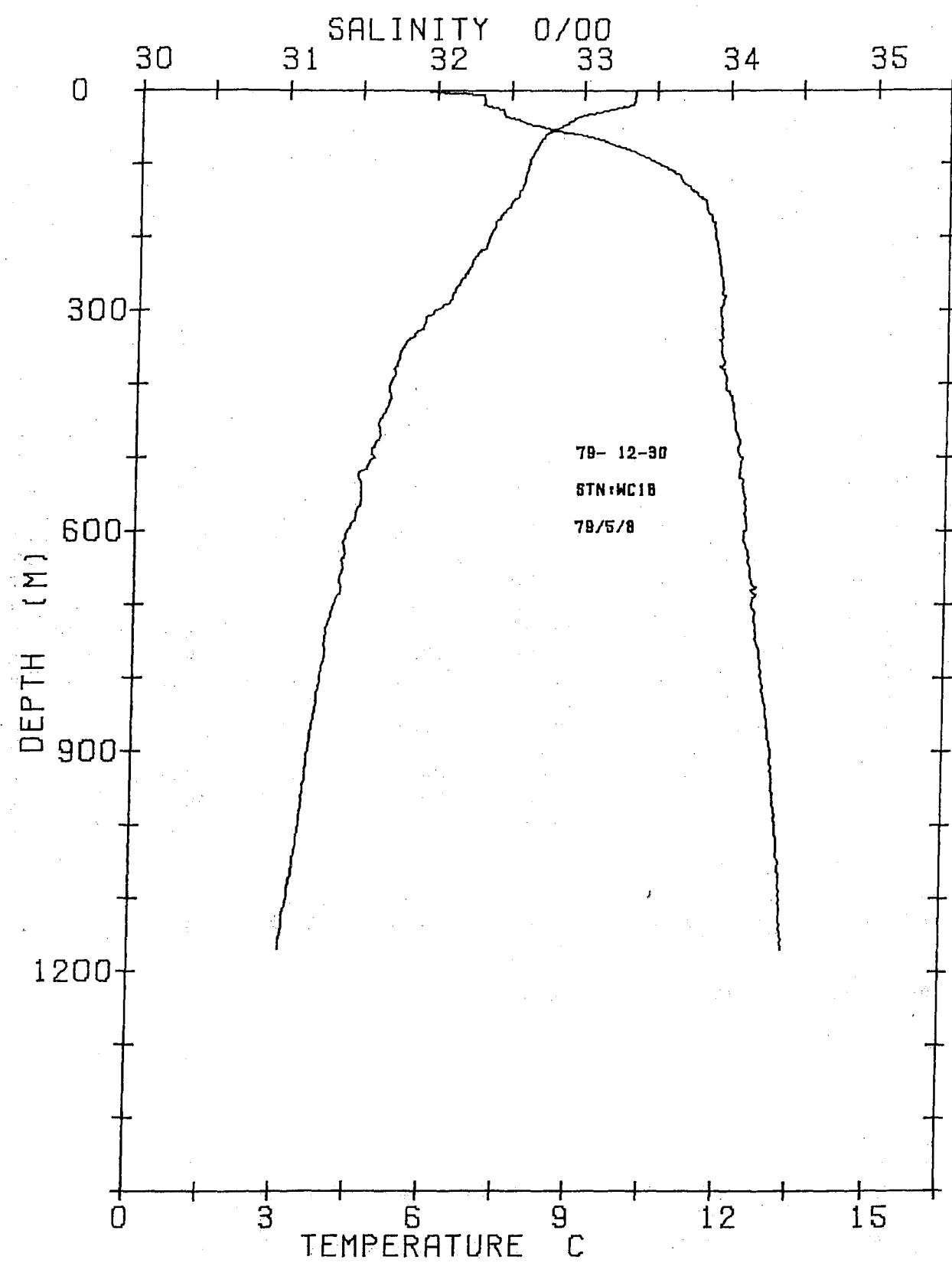
DATE 79/05/08 TIME (PST) 2121

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
0	10.20	32.24	24.79	316.8	.00	.00	1487.6
10	10.20	32.25	24.80	315.9	.32	.02	1487.8
20	10.20	32.26	24.80	315.7	.63	.06	1487.9
30	9.61	32.41	25.02	295.6	.94	.14	1486.1
50	8.77	32.61	25.31	268.2	1.49	.36	1483.5
75	8.07	33.24	25.90	211.9	2.09	.73	1482.1
100	7.72	33.47	26.14	189.8	2.59	1.17	1481.5
125	7.65	33.68	26.31	174.2	3.04	1.68	1481.9
150	7.46	33.80	26.43	162.8	3.47	2.26	1481.7
175	7.26	33.87	26.52	155.2	3.86	2.90	1481.4
200	7.12	33.92	26.57	150.1	4.25	3.62	1481.4
225	6.79	33.94	26.64	144.3	4.62	4.41	1480.5
250	6.66	33.95	26.66	142.5	4.97	5.26	1480.4
300	6.10	33.97	26.75	134.2	5.66	7.15	1479.0
400	5.18	33.98	26.87	123.4	6.95	11.63	1476.9
500	4.94	34.09	26.99	113.1	8.13	16.93	1477.7
600	4.49	34.16	27.09	104.1	9.21	22.89	1477.6
800	3.76	34.28	27.26	88.3	11.12	36.22	1478.0
1000	3.42	34.39	27.39	77.6	12.77	50.98	1480.0

DEEPEST MEASUREMENT :

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
1010.0	3.39	34.40	27.39	77.1	12.85	51.76	1480.0

WIND MIXED LAYER DEPTH = 25.8 METRES



CRUISE : C.O.D.E. 79-12.

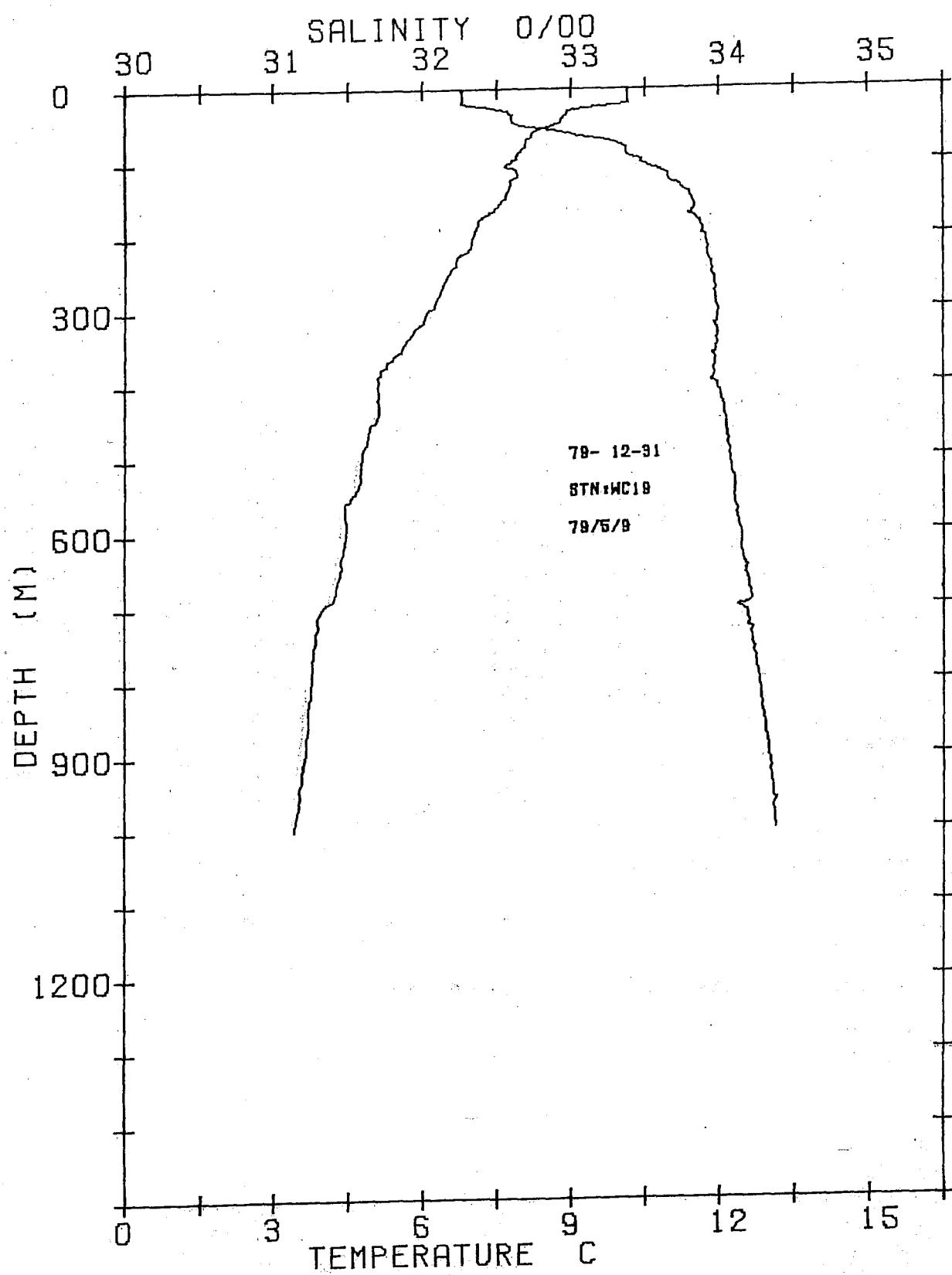
STATION: wC18 CONS #030
 LAT N 48 42.0 LONG W 127 46.0
 DATE 79/05/08 TIME (PST) 2304

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT. EN	SOUND
0	10.04	32.06	24.68	327.4	.00	.00	1486.8
10	10.04	32.32	24.88	308.6	.32	.02	1487.3
20	10.03	32.31	24.87	309.0	.63	.06	1487.4
30	9.32	32.45	25.09	288.2	.92	.14	1485.1
50	8.56	32.72	25.42	257.2	1.47	.35	1482.9
75	8.08	33.24	25.91	211.7	2.05	.71	1482.1
100	7.91	33.53	26.16	188.1	2.55	1.15	1482.3
125	7.79	33.69	26.30	174.8	3.00	1.65	1482.4
150	7.60	33.84	26.45	161.5	3.42	2.23	1482.3
175	7.30	33.88	26.52	154.8	3.81	2.87	1481.6
200	7.12	33.91	26.57	150.3	4.19	3.59	1481.3
225	6.86	33.94	26.62	145.6	4.56	4.37	1480.8
250	6.65	33.95	26.67	141.9	4.92	5.23	1480.4
300	6.02	33.95	26.75	134.5	5.61	7.13	1478.7
400	5.17	34.00	26.89	121.7	6.89	11.57	1476.9
500	4.85	34.12	27.02	110.3	8.04	16.77	1477.4
600	4.33	34.14	27.10	103.2	9.11	22.61	1476.9
800	3.81	34.28	27.26	88.8	11.02	35.97	1478.2
1000	3.44	34.39	27.38	78.3	12.68	50.85	1480.1

DEEPEST MEASUREMENT :

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT. EN	SOUND
1170.3	3.08	34.45	27.46	70.7	13.94	64.55	1481.4

WIND MIXED LAYER DEPTH = 16.5 METRES



CRUISE : C.O.D.E. 79-12.

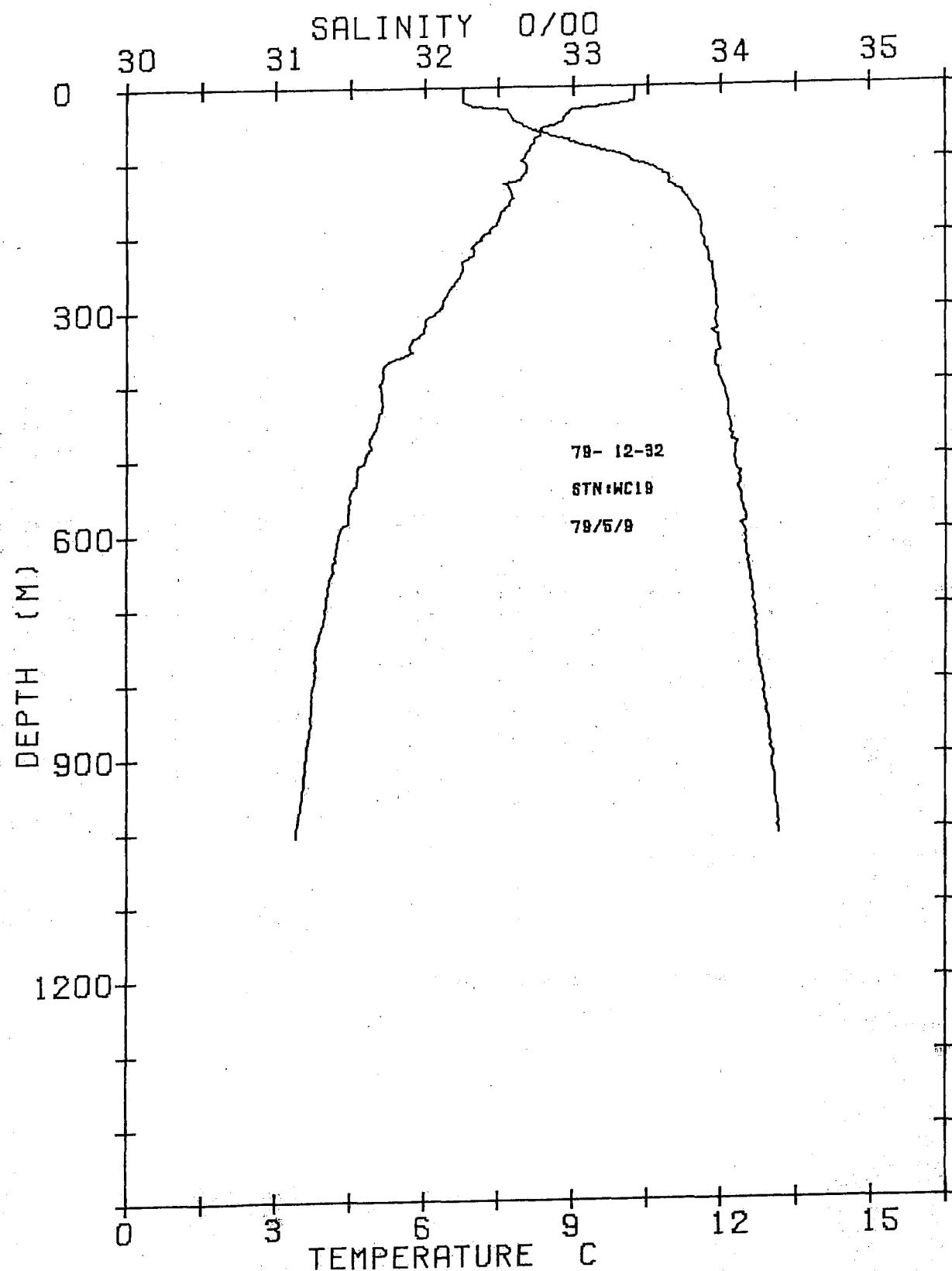
STATION: WC19 CONS #031
 LAT N 48 47.8 LONG W 127 37.3
 DATE 79/05/09 TIME (PST) 0108

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
0	10.15	32.27	24.82	313.8	.00	.00	1487.4
10	10.15	32.27	24.82	314.2	.31	.02	1487.6
20	10.16	32.26	24.82	314.6	.63	.06	1487.8
30	8.94	32.57	25.25	273.7	.92	.14	1483.8
50	8.65	32.66	25.37	262.6	1.46	.35	1483.2
75	8.09	33.34	25.98	204.6	2.03	.70	1482.3
100	7.81	33.47	26.13	191.0	2.52	1.14	1481.8
125	7.78	33.68	26.29	176.0	2.98	1.65	1482.4
150	7.67	33.82	26.42	164.4	3.40	2.23	1482.6
175	7.20	33.84	26.51	156.3	3.80	2.88	1481.2
200	7.05	33.91	26.57	150.1	4.19	3.60	1481.1
225	6.79	33.92	26.62	145.6	4.56	4.39	1480.5
250	6.57	33.95	26.68	140.9	4.91	5.23	1480.0
300	6.14	34.00	26.77	132.4	5.60	7.12	1479.2
400	5.11	33.99	26.88	122.2	6.88	11.58	1476.6
500	4.79	34.08	26.99	112.6	8.05	16.84	1477.1
600	4.47	34.16	27.09	103.9	9.13	22.78	1477.5
800	3.77	34.28	27.26	88.4	11.05	36.19	1478.0
1000	3.43	34.39	27.38	77.9	12.71	51.09	1480.0

DEEPEST MEASUREMENT :

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
1000.1	3.43	34.39	27.38	77.9	12.71	51.09	1480.0

WIND MIXED LAYER DEPTH = 19.5 METRES



CRUISE : C.O.D.E. 79-12.

STATION: WC19 CONS #032

LAT N 48 47.8 LONG W 127 37.3

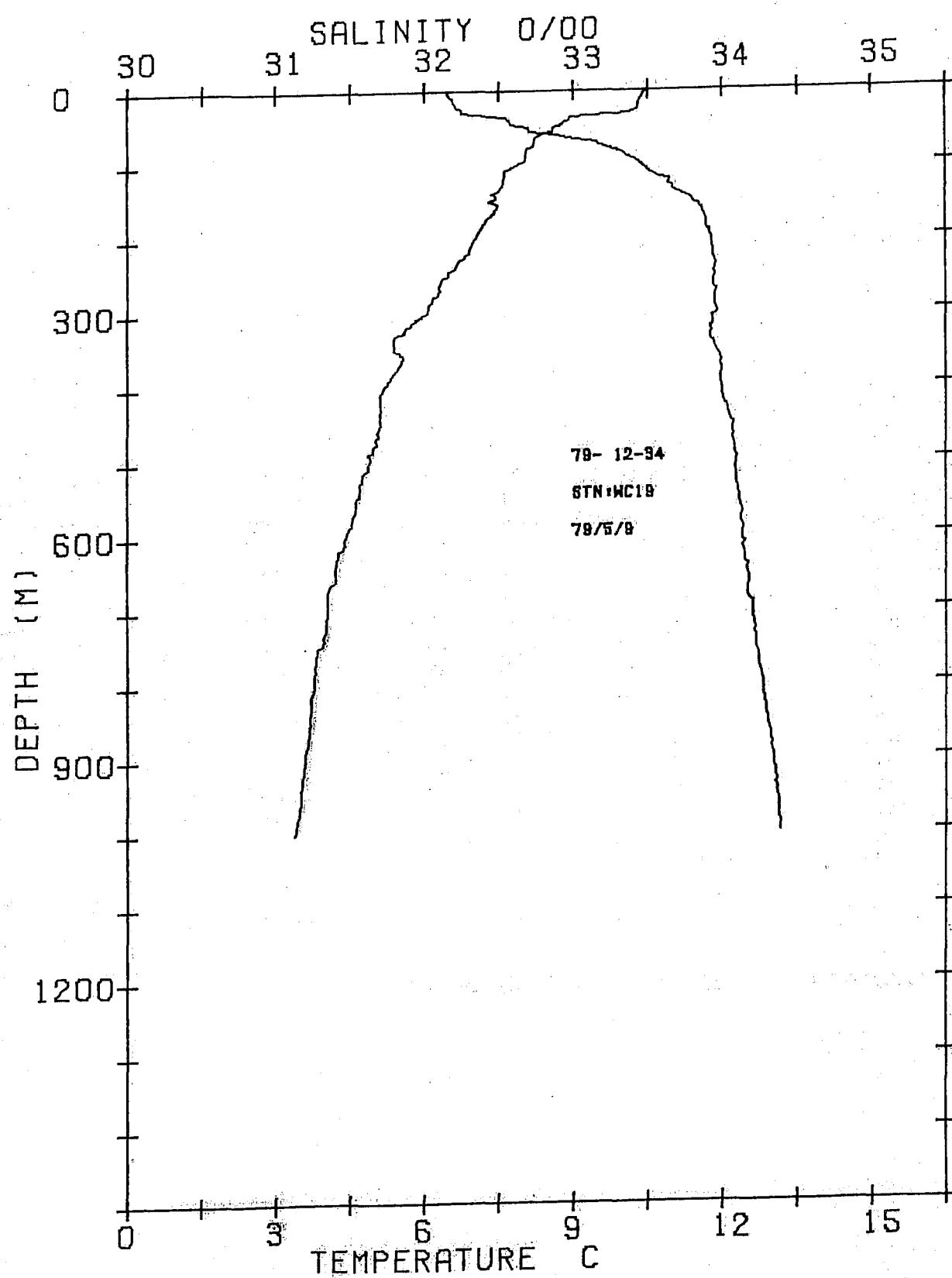
DATE 79/05/09 TIME (PST) 0524

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
0	10.22	32.26	24.80	315.4	.00	.00	1487.7
10	10.23	32.26	24.80	315.8	.32	.02	1487.9
20	10.22	32.26	24.80	315.7	.63	.06	1488.0
30	9.01	32.55	25.23	275.5	.93	.14	1484.1
50	8.69	32.66	25.36	263.6	1.47	.35	1483.3
75	8.21	33.01	25.71	230.6	2.09	.74	1482.4
100	7.99	33.39	26.04	199.8	2.62	1.20	1482.4
125	7.94	33.65	26.25	180.0	3.09	1.72	1483.0
150	7.79	33.77	26.37	169.3	3.52	2.32	1483.0
175	7.54	33.86	26.47	160.1	3.93	2.99	1482.5
200	7.21	33.87	26.53	154.8	4.32	3.73	1481.6
225	6.98	33.92	26.60	148.4	4.70	4.53	1481.2
250	6.75	33.95	26.65	143.6	5.07	5.39	1480.7
300	6.30	33.98	26.73	136.3	5.76	7.31	1479.8
400	5.06	34.01	26.91	120.0	7.05	11.80	1476.5
500	4.79	34.09	27.01	111.3	8.21	17.01	1477.1
600	4.26	34.17	27.12	100.6	9.27	22.81	1476.6
600	3.78	34.28	27.26	88.3	11.16	36.02	1478.1
1000	3.43	34.39	27.38	77.9	12.82	50.94	1480.0

DEEPEST MEASUREMENT :

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
1005.1	3.42	34.39	27.38	77.9	12.86	51.34	1480.1

WIND MIXED LAYER DEPTH = 20.1 METRES



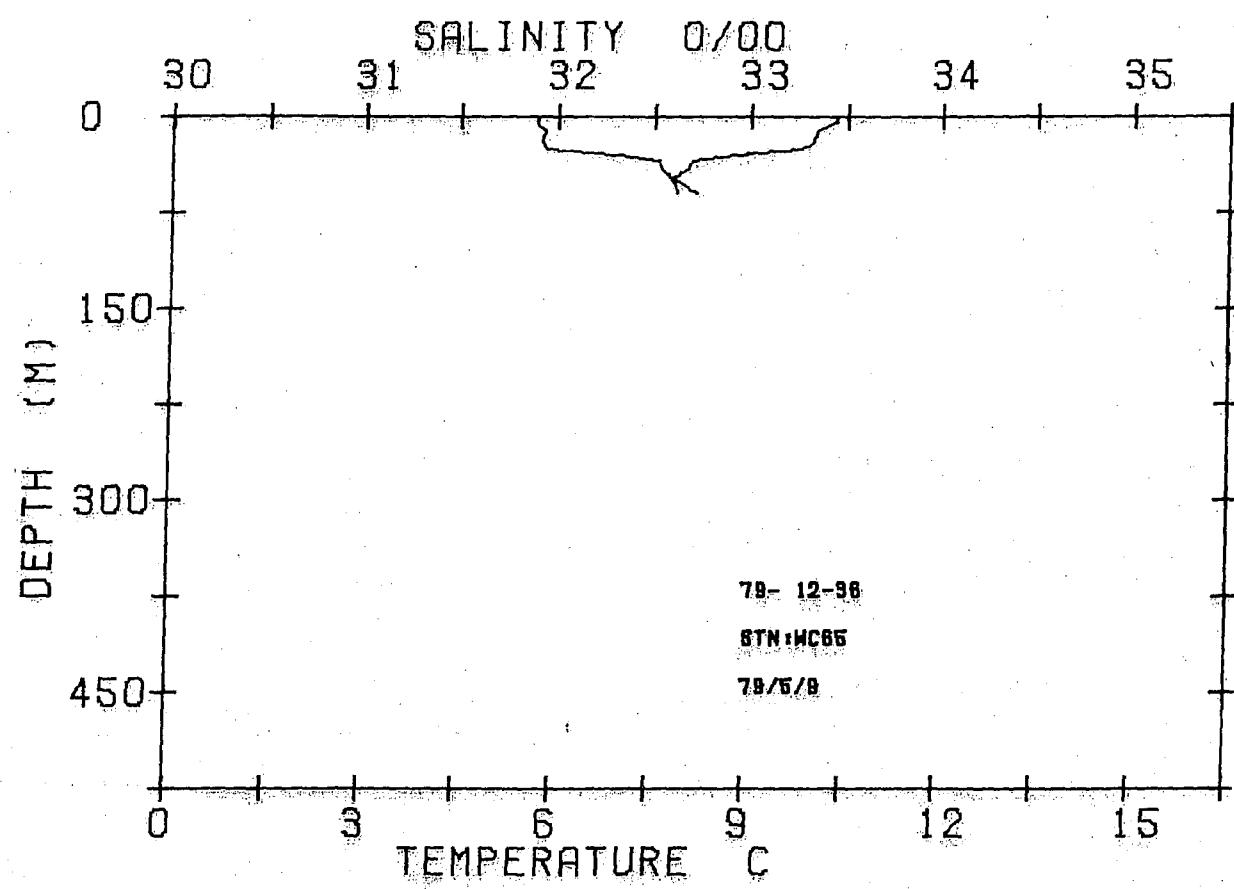
CRUISE : C.O.D.E. 79-12.
 STATION: WC19 CONS #034
 LAT N 48 48.0 LONG W 127 37.3
 DATE 79/05/09 TIME (PST) 1114

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
0	10.43	32.15	24.68	326.7	.00	.00	1488.3
10	10.37	32.19	24.72	323.3	.33	.02	1488.3
20	10.32	32.21	24.75	321.0	.65	.06	1488.3
30	10.16	32.25	24.81	315.7	.97	.14	1487.9
50	8.60	32.70	25.40	259.3	1.52	.36	1483.0
75	8.18	33.20	25.86	216.3	2.11	.73	1482.5
100	7.89	33.46	26.11	193.0	2.62	1.17	1482.1
125	7.60	33.63	26.28	176.5	3.08	1.69	1481.6
150	7.32	33.80	26.45	161.1	3.50	2.27	1481.2
175	7.27	33.89	26.53	154.2	3.90	2.91	1481.5
200	7.05	33.93	26.59	148.4	4.27	3.62	1481.1
225	6.82	33.94	26.64	144.4	4.64	4.40	1480.6
250	6.47	33.95	26.68	140.1	5.00	5.24	1479.7
300	6.06	33.97	26.76	133.6	5.68	7.13	1478.9
400	5.19	34.00	26.88	122.2	6.96	11.60	1477.0
500	4.90	34.10	27.00	112.0	8.13	16.84	1477.6
600	4.41	34.14	27.06	104.6	9.21	22.79	1477.2
800	3.78	34.28	27.26	88.8	11.13	36.20	1478.0
1000	3.40	34.39	27.39	77.4	12.79	51.06	1479.9

DEEPEST MEASUREMENT :

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
1000.1	3.40	34.39	27.39	77.3	12.79	51.06	1479.9

WIND MIXED LAYER DEPTH = 29.3 METRES



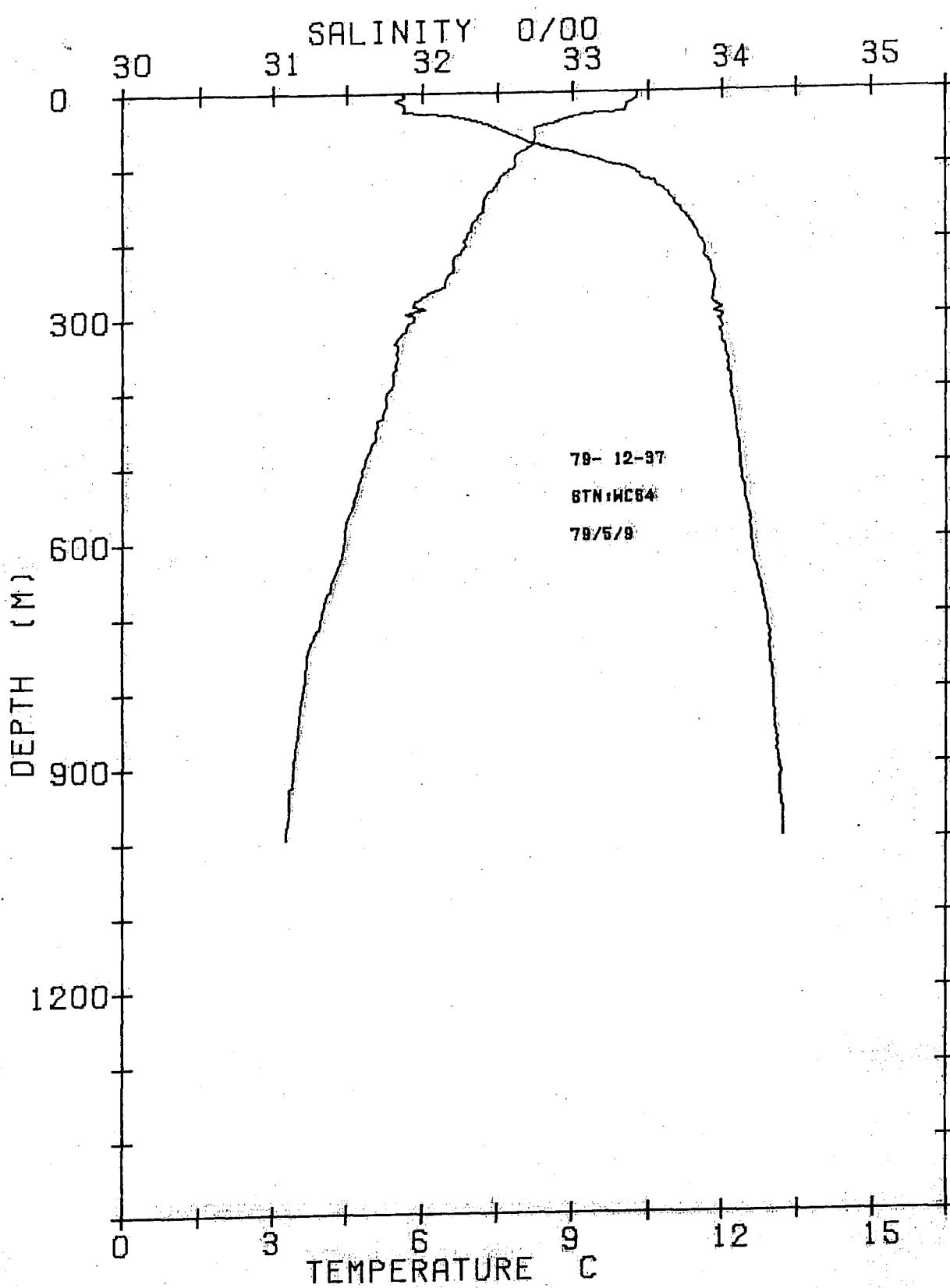
CRUISE : C.O.D.E. 79-12.

STATION: WC65 CONS #036
 LAT N 49 06.3 LONG W 127 35.0
 DATE 79/05/09 TIME (PST) 1858

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND.
0	10.33	31.89	24.50	344.5	.00	.00	1487.6
10	10.07	31.93	24.57	338.0	.34	.02	1486.9
20	9.98	31.92	24.58	337.1	.68	.07	1486.7
30	8.80	32.31	25.07	290.7	1.00	.15	1483.0
50	7.76	32.61	25.46	254.1	1.53	.36	1479.7

DEEPEST MEASUREMENT :

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
60.1	7.85	32.72	25.53	247.0	1.79	.50	1480.4



CRUISE : C.O.D.E. 79-12.

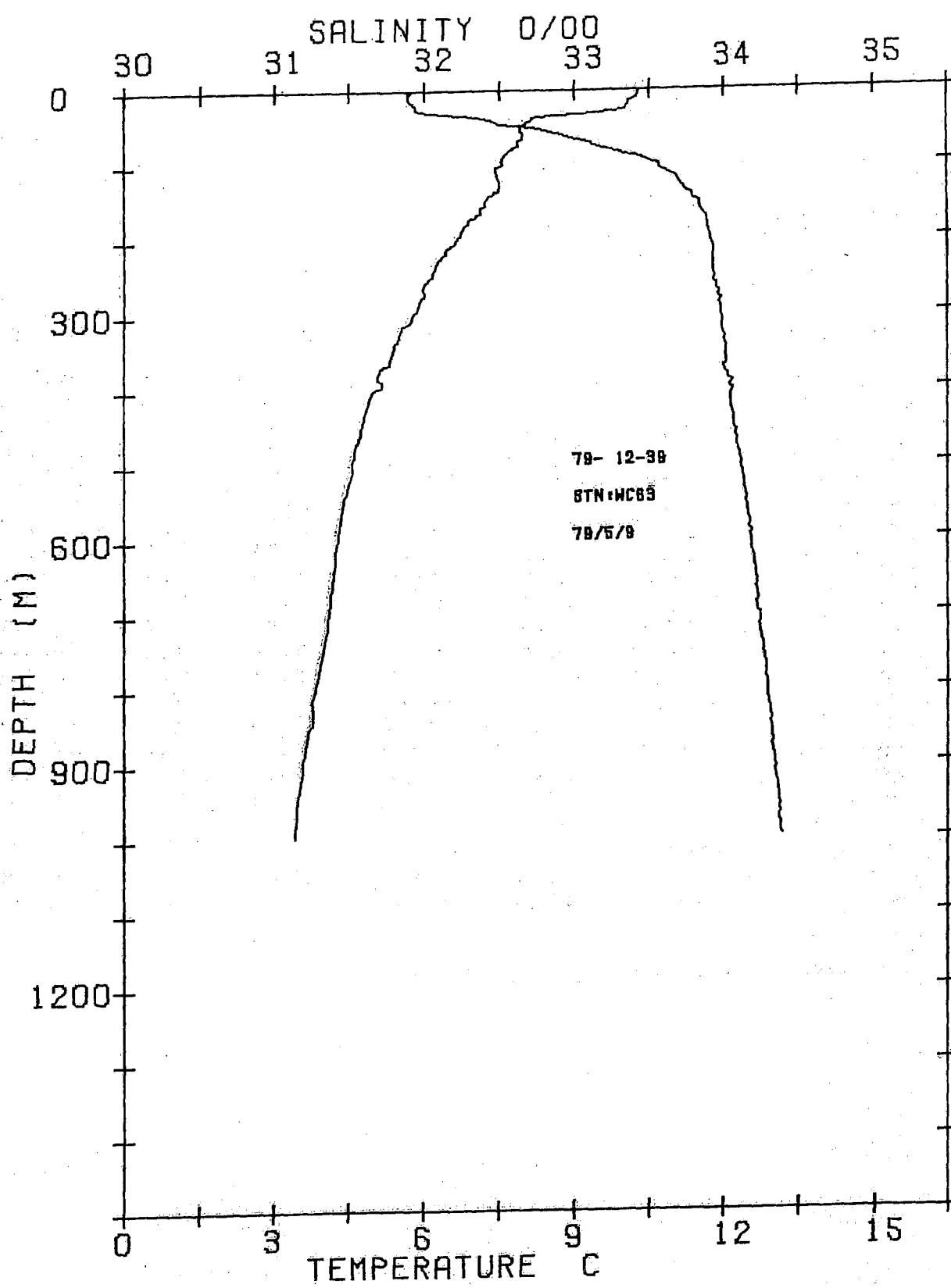
STATION: WC64 CONS #037
 LAT N 49 14.0 LONG W 127 39.0
 DATE 79/05/09 TIME (PST) 1958

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
0	10.28	31.87	24.49	345.2	.00	.00	1487.4
10	10.28	31.82	24.45	349.0	.35	.02	1487.5
20	10.07	31.88	24.53	341.8	.69	.07	1487.0
30	9.27	32.18	24.90	307.2	1.02	.15	1484.6
50	8.22	32.52	25.32	266.7	1.59	.38	1481.3
75	8.10	32.88	25.62	238.6	2.23	.77	1481.8
100	7.82	33.35	26.03	200.2	2.77	1.25	1481.7
125	7.49	33.56	26.24	180.4	3.25	1.78	1481.1
150	7.22	33.68	26.37	168.7	3.68	2.38	1480.6
175	7.00	33.79	26.49	157.7	4.09	3.04	1480.3
200	6.81	33.86	26.57	150.5	4.47	3.76	1480.0
225	6.61	33.90	26.63	144.8	4.84	4.55	1479.7
250	6.50	33.95	26.68	140.4	5.20	5.40	1479.7
300	5.85	34.01	26.82	127.9	5.87	7.24	1478.0
400	5.33	34.07	26.92	118.7	7.11	11.56	1477.6
500	4.87	34.13	27.03	109.3	8.25	16.68	1477.5
600	4.46	34.20	27.13	100.2	9.29	22.41	1477.5
800	3.60	34.35	27.33	81.6	11.08	34.84	1477.4

DEEPEST MEASUREMENT :

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
995.3	3.27	34.41	27.41	74.6	12.59	48.43	1479.3

WIND MIXED LAYER DEPTH = 23.0 METRES



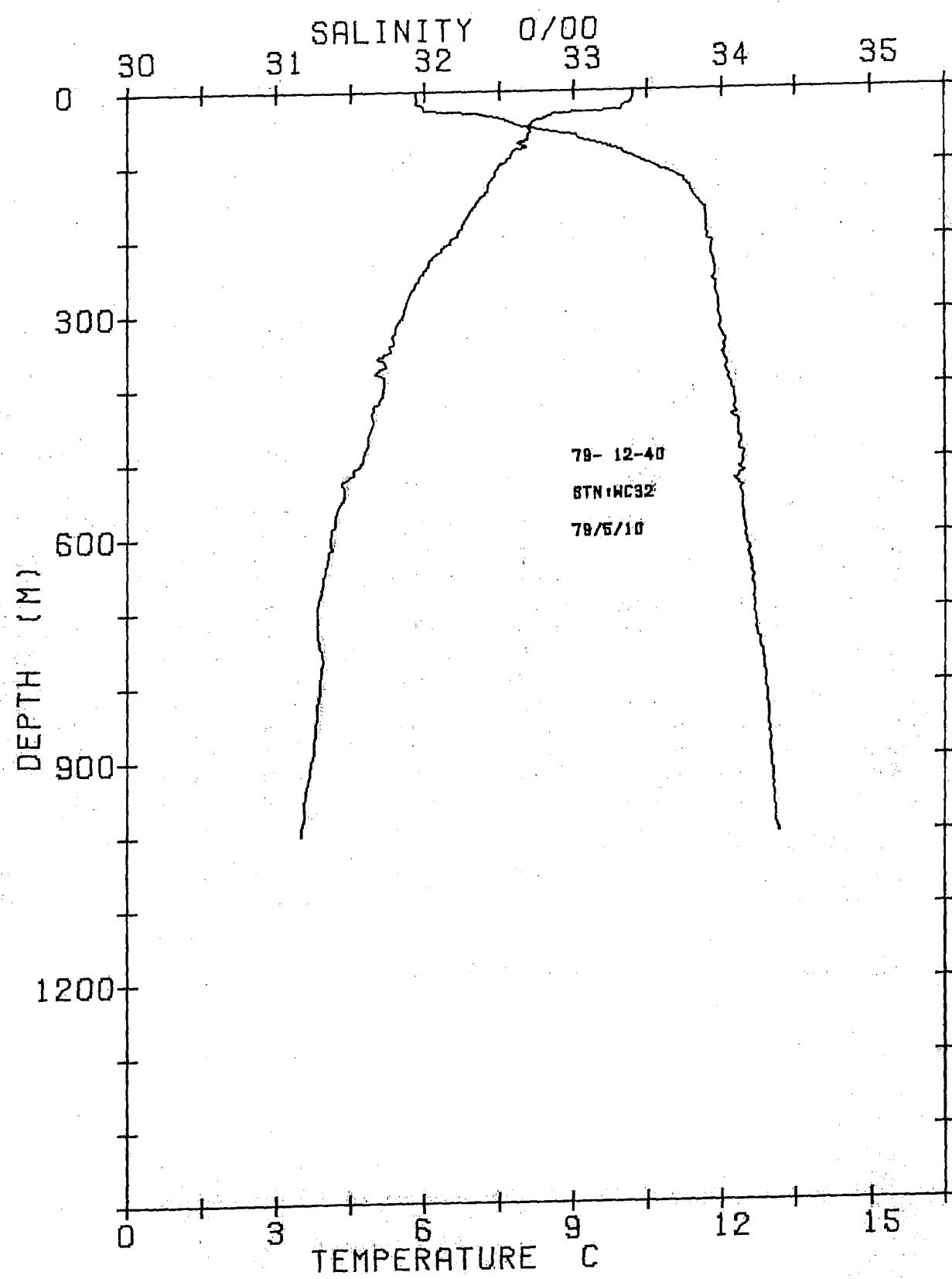
CRUISE : C.O.D.E. 79-12.
 STATION: WC63 CONS #039
 LAT N 49 21.2 LONG W 127 42.0
 DATE 79/05/09 TIME (PST) 2306

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT. EN	SOUND
0	10.30	31.90	24.51	343.7	.00	.00	1487.5
10	10.26	31.89	24.51	343.8	.34	.02	1487.5
20	10.07	31.94	24.58	337.4	.68	.07	1487.0
30	9.50	32.04	24.75	321.2	1.02	.15	1485.3
50	7.88	32.73	25.54	246.5	1.57	.37	1480.3
75	7.85	33.14	25.86	215.6	2.14	.73	1481.2
100	7.57	33.57	26.24	180.4	2.63	1.15	1481.0
125	7.49	33.71	26.36	169.4	3.07	1.64	1481.3
150	7.22	33.83	26.49	157.4	3.48	2.20	1480.8
175	6.90	33.88	26.57	149.8	3.86	2.83	1480.0
200	6.67	33.91	26.63	144.7	4.23	3.52	1479.6
225	6.34	33.93	26.68	139.7	4.58	4.27	1478.7
250	6.14	33.94	26.72	136.6	4.93	5.09	1478.3
300	5.78	33.98	26.80	129.4	5.59	6.91	1477.7
400	5.01	34.06	26.95	115.7	6.82	11.19	1476.3
500	4.57	34.12	27.05	107.1	7.93	16.21	1476.2
600	4.28	34.19	27.13	99.5	8.96	21.86	1476.7
800	3.85	34.30	27.27	87.7	10.84	34.95	1478.4

DEEPEST MEASUREMENT :

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT. EN	SOUND
995.1	3.41	34.40	27.39	77.0	12.44	49.29	1479.9

WIND MIXED LAYER DEPTH = 25.5 METRES



CRUISE : C.O.D.E. 79-12.

STATION: WC32 CONS H040

LAT N 49 29.4 LONG W 127 45.9

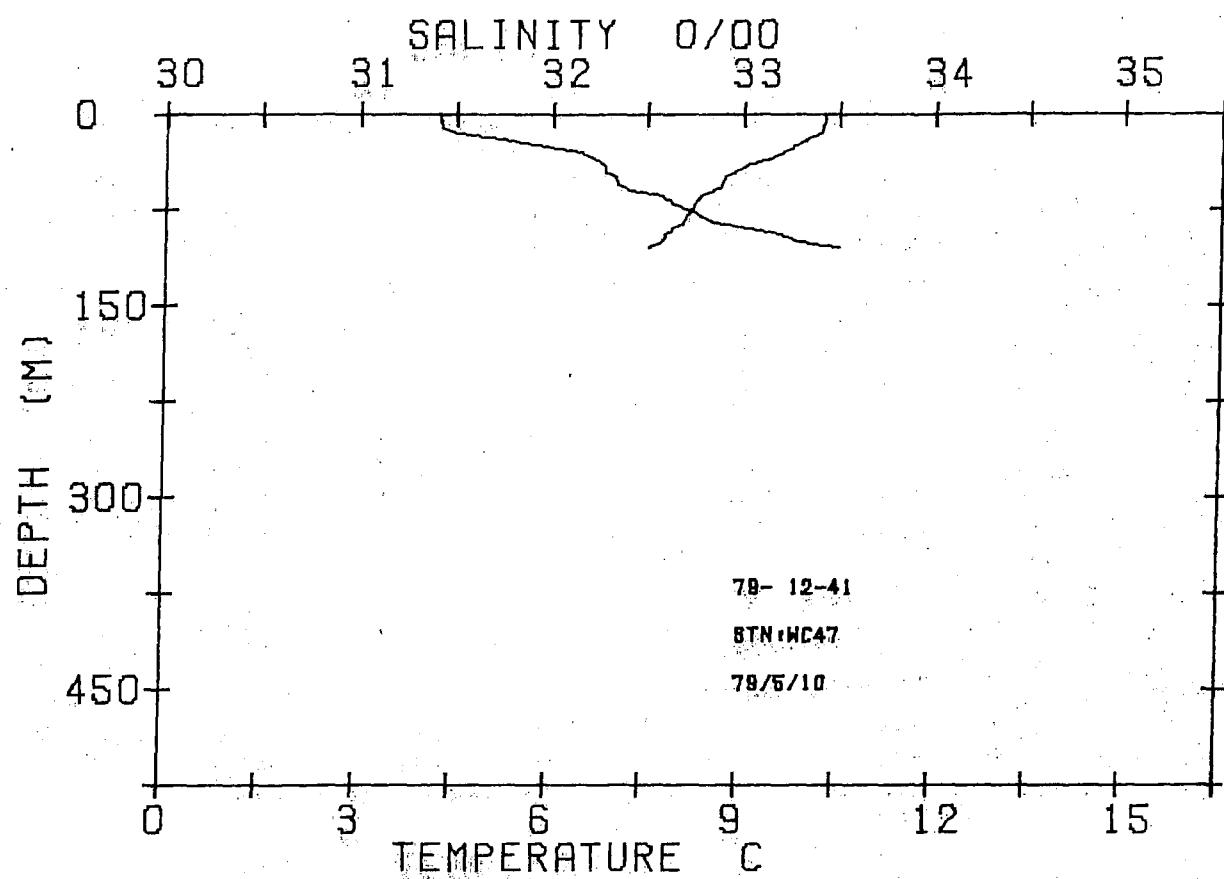
DATE 79/05/10 TIME (PST) 0042

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT·EN	SOUND
0	10.22	31.94	24.55	339.4	.00	.00	1487.3
10	10.22	31.95	24.56	338.8	.34	.02	1487.5
20	10.03	31.99	24.63	332.6	.68	.07	1487.0
30	8.67	32.33	25.11	286.9	1.00	.15	1482.5
50	8.08	32.72	25.50	250.3	1.53	.36	1481.1
75	8.05	33.25	25.92	210.6	2.10	.71	1482.0
100	7.53	33.53	26.21	182.9	2.59	1.14	1480.8
125	7.30	33.76	26.42	163.2	3.02	1.62	1480.6
150	7.09	33.84	26.52	154.5	3.42	2.17	1480.3
175	6.82	33.89	26.59	147.9	3.79	2.78	1479.7
200	6.55	33.89	26.63	144.4	4.16	3.46	1479.1
225	6.15	33.93	26.72	136.6	4.51	4.21	1478.0
250	5.92	33.95	26.76	133.0	4.84	5.01	1477.4
300	5.57	33.97	26.82	127.3	5.49	6.79	1476.9
400	5.17	34.06	26.94	117.2	6.71	11.03	1477.0
500	4.75	34.14	27.04	107.8	7.82	16.05	1477.0
600	4.07	34.16	27.14	98.9	8.85	21.71	1475.8
800	3.86	34.30	27.27	87.8	10.71	34.65	1478.4
1000	3.48	34.39	27.37	78.8	12.38	49.68	1480.2

DEEPEST MEASUREMENT :

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT·EN	SOUND
1000.1	3.48	34.39	27.37	78.8	12.38	49.69	1480.2

WIND MIXED LAYER DEPTH = 23.6 METRES



CRUISE : C.O.D.E. 79-12.

STATION: WC47 CONS #041

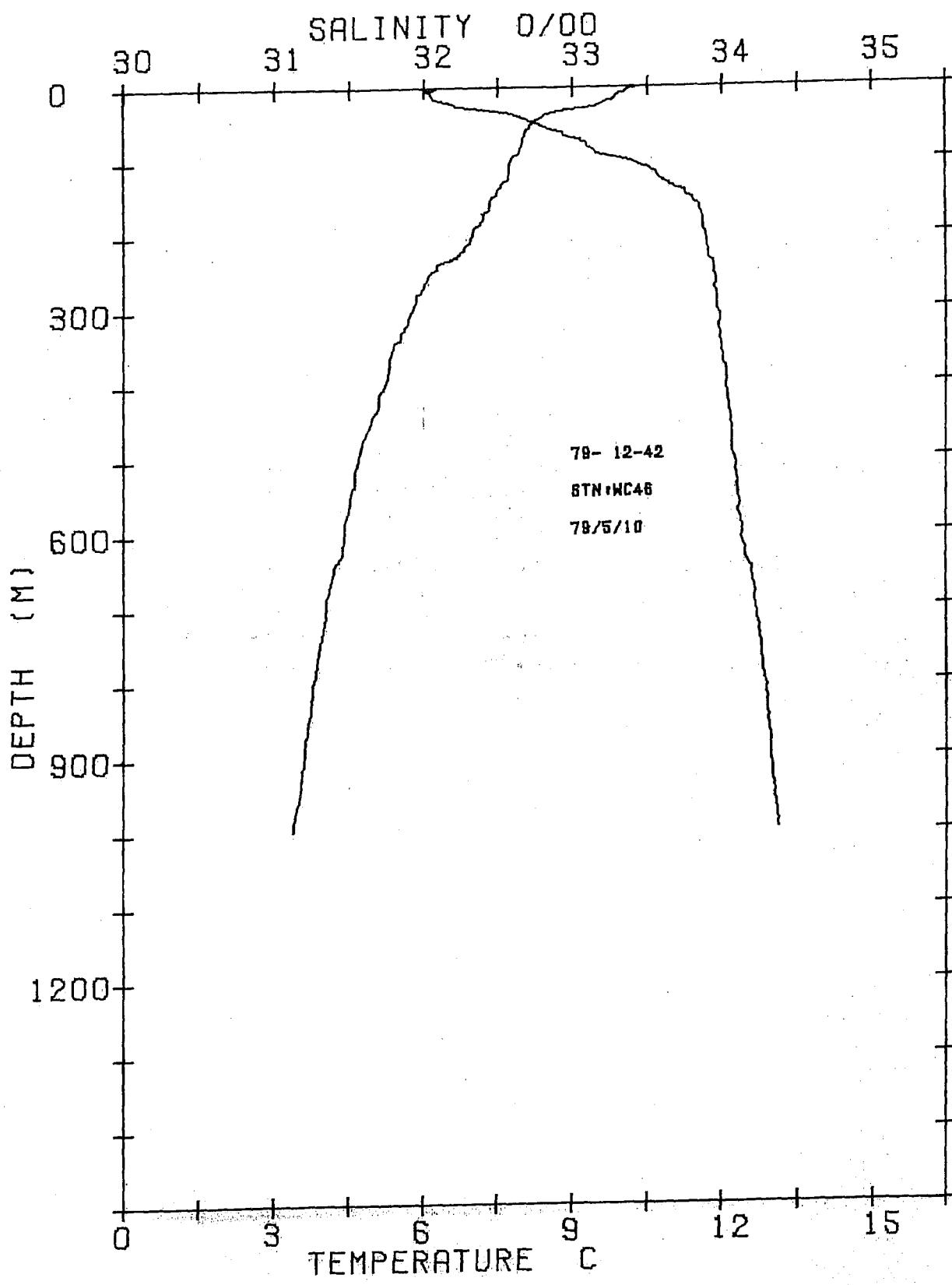
LAT N 50 06.0 LONG W 127 58.0

DATE 79/05/10 TIME (PST) 1717

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
0	10.26	31.41	24.14	378.9	.00	.00	1486.7
10	10.23	31.43	24.16	377.2	.38	.02	1486.8
20	9.96	31.73	24.44	350.8	.75	.07	1486.4
30	9.65	32.15	24.81	315.2	1.08	.16	1485.9
50	8.73	32.34	25.10	287.9	1.68	.40	1483.1
75	8.20	32.70	25.46	253.7	2.36	.82	1481.9
100	7.73	33.30	26.00	203.1	2.93	1.32	1481.3

DEEPEST MEASUREMENT :

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
105.4	7.53	33.50	26.19	185.1	3.04	1.43	1480.9



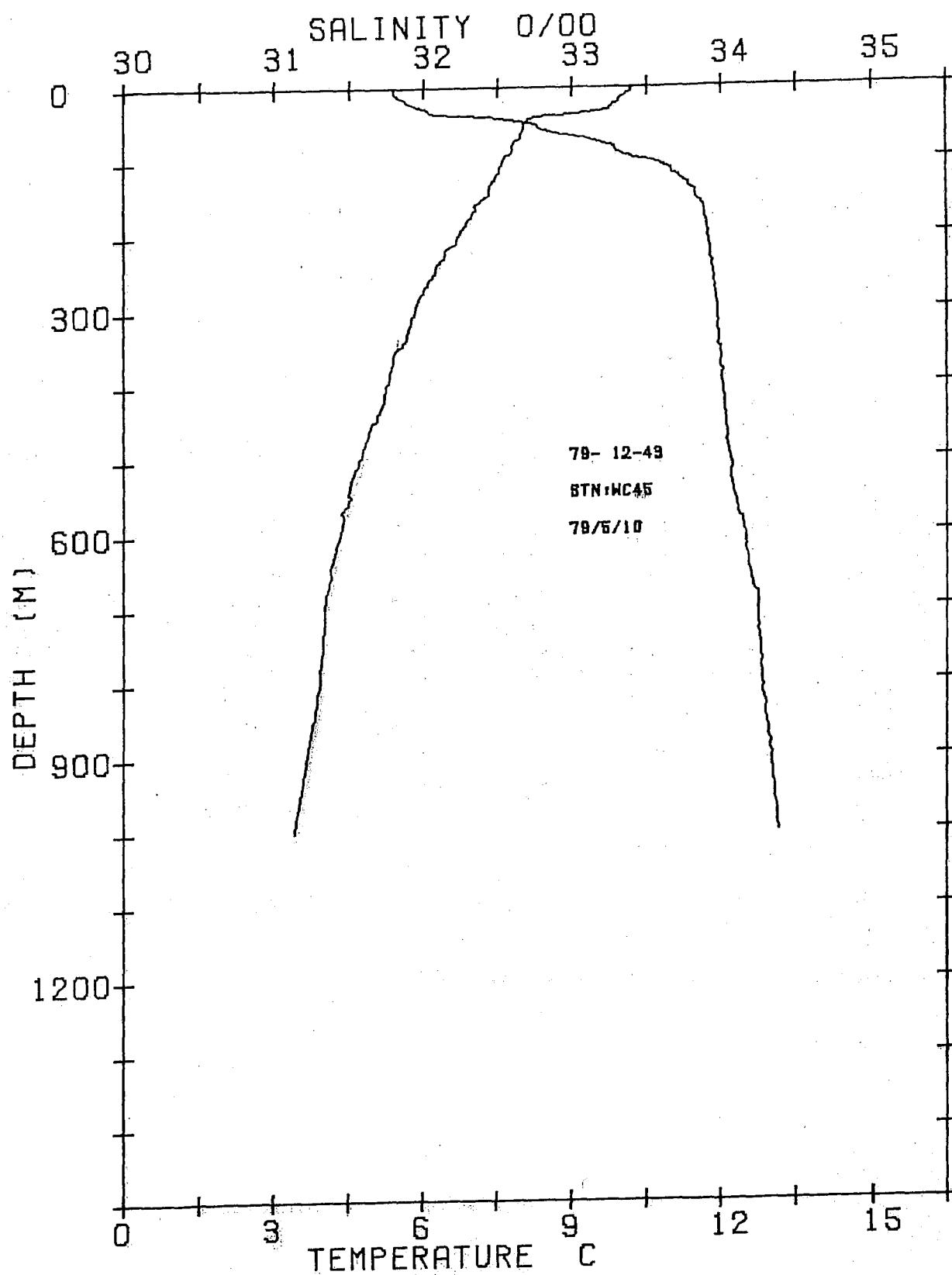
CRUISE : C.O.D.E. 79-12.
 STATION: WC46 CONS #042
 LAT N 50 01.2 LONG W 128 05.3
 DATE 79/05/10 TIME (PST) 1831

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
0	10.18	32.08	24.67	328.1	.00	.00	1487.3
10	9.91	32.05	24.69	326.3	.33	.02	1486.4
20	9.67	32.16	24.82	314.5	.65	.06	1485.8
30	8.92	32.41	25.13	284.6	.95	.14	1483.5
50	8.21	32.78	25.53	247.4	1.48	.35	1481.6
75	8.00	33.09	25.80	221.5	2.06	.71	1481.7
100	7.77	33.39	26.07	196.9	2.59	1.18	1481.6
125	7.70	33.60	26.24	180.7	3.06	1.70	1482.0
150	7.38	33.80	26.45	161.5	3.49	2.29	1481.4
175	7.21	33.87	26.52	154.5	3.88	2.93	1481.2
200	7.00	33.89	26.57	150.5	4.26	3.64	1480.8
225	6.73	33.91	26.62	145.7	4.63	4.43	1480.2
250	6.16	33.95	26.73	135.9	4.98	5.26	1478.4
300	5.78	33.97	26.79	130.1	5.65	7.08	1477.7
400	5.22	34.03	26.91	120.1	6.89	11.42	1477.1
500	4.72	34.09	27.01	110.7	8.04	16.59	1476.8
600	4.40	34.14	27.08	104.6	9.11	22.50	1477.2
800	3.79	34.30	27.27	87.4	11.01	35.73	1478.1

DEEPEST MEASUREMENT :

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
996.1	3.38	34.38	27.38	78.2	12.65	50.36	1479.7

WIND MIXED LAYER DEPTH = 14.4 METRES



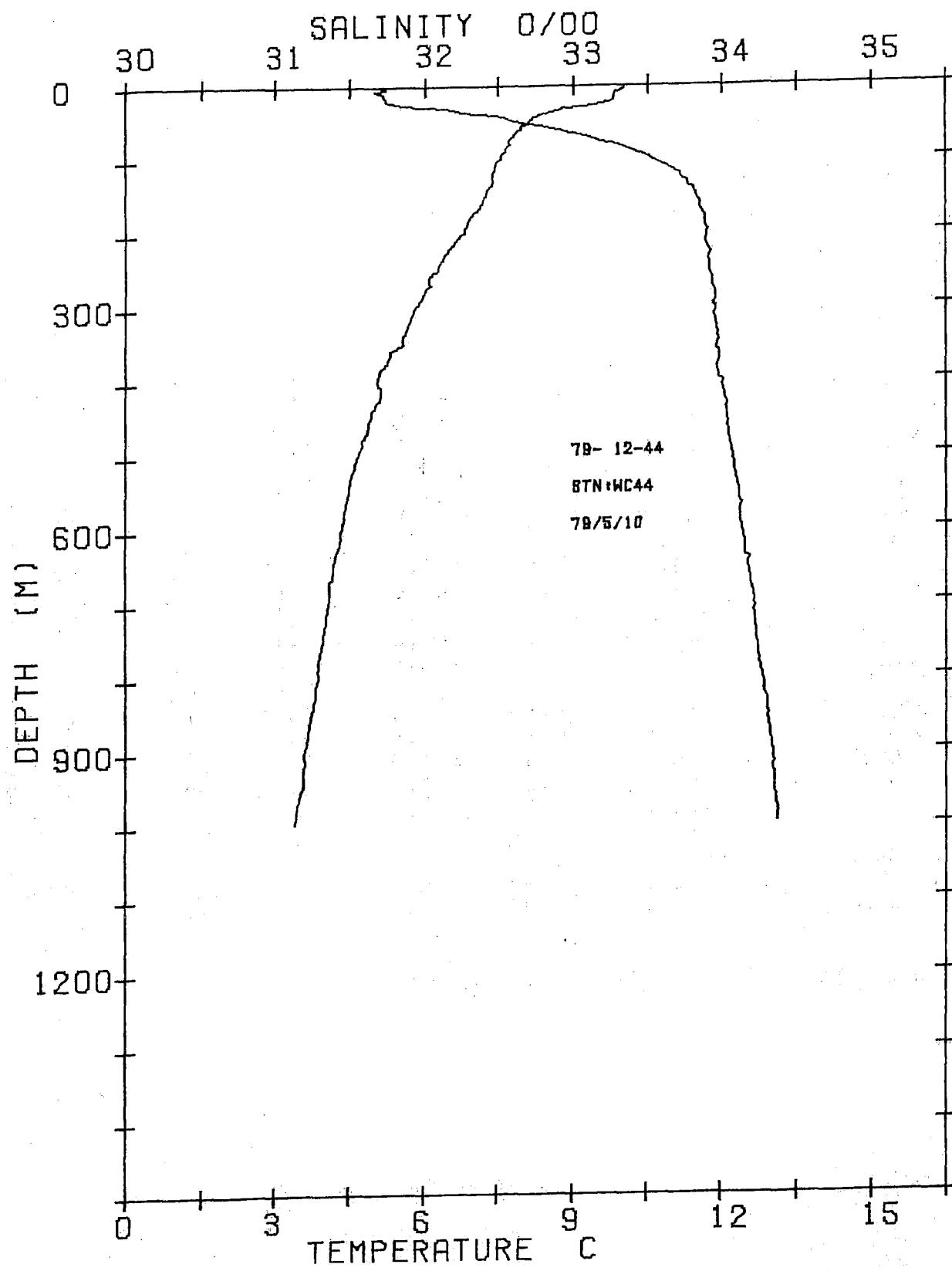
CRUISE : C.O.D.E. 79-12.
 STATION: WC45 CONS #043
 LAT N 49 56.8 LONG W 128 13.0
 DATE 79/05/10 TIME (PST) 2016

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT. EN	SOUND
0	10.19	31.80	24.45	349.2	.00	.00	1487.0
10	10.09	31.82	24.48	346.2	.35	.02	1486.8
20	9.92	31.89	24.56	338.5	.69	.07	1486.4
30	9.74	32.03	24.70	325.7	1.02	.15	1486.1
50	8.05	32.77	25.54	246.2	1.59	.37	1481.0
75	7.84	33.22	25.93	209.7	2.16	.73	1481.2
100	7.62	33.55	26.21	182.9	2.66	1.17	1481.2
125	7.43	33.74	26.39	166.5	3.10	1.66	1481.1
150	7.23	33.83	26.49	157.2	3.50	2.21	1480.9
175	6.96	33.89	26.58	149.4	3.88	2.83	1480.3
200	6.73	33.91	26.62	145.6	4.25	3.51	1479.8
225	6.46	33.93	26.68	140.6	4.60	4.27	1479.2
250	6.23	33.95	26.72	136.5	4.95	5.09	1478.7
300	5.84	33.98	26.79	130.0	5.61	6.92	1478.0
400	5.26	34.02	26.89	121.4	6.87	11.32	1477.3
500	4.72	34.07	26.99	112.2	8.05	16.58	1476.8
600	4.34	34.17	27.11	101.5	9.12	22.49	1477.0
800	3.93	34.28	27.25	90.2	11.00	35.64	1478.7
1000	3.41	34.39	27.38	77.9	12.68	50.68	1479.9

DEEPEST MEASUREMENT :

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT. EN	SOUND
1000.1	3.41	34.39	27.38	77.9	12.68	50.69	1479.9

WIND MIXED LAYER DEPTH = 24.3 METRES



CRUISE : C.O.D.E. 79-12.

STATION: WC44 CONS #044

LAT N 49 51.5 LONG W 128 20.9

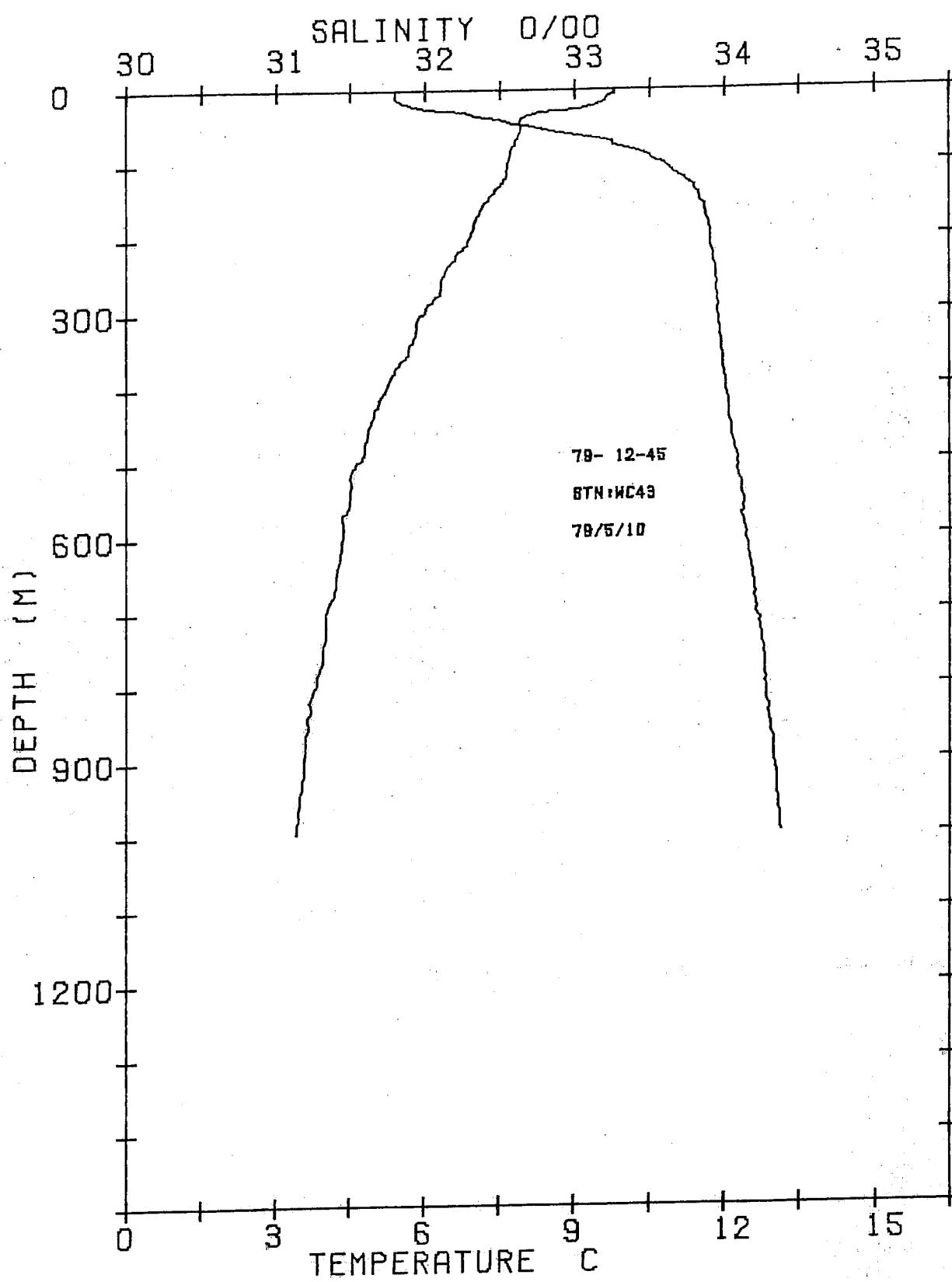
DATE 79/05/10 TIME (PST) 2155

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
0	10.04	31.73	24.42	351.9	.00	.00	1486.3
10	9.83	31.72	24.45	349.4	.35	.02	1485.7
20	9.80	31.74	24.46	348.0	.70	.07	1485.8
30	8.87	32.14	24.93	303.8	1.03	.15	1483.0
50	8.14	32.66	25.45	255.1	1.58	.37	1481.2
75	7.72	33.19	25.92	210.3	2.16	.73	1480.7
100	7.56	33.53	26.21	183.1	2.64	1.15	1480.9
125	7.38	33.74	26.40	165.8	3.07	1.64	1480.9
150	7.25	33.83	26.49	157.3	3.48	2.19	1480.9
175	7.00	33.89	26.57	150.4	3.86	2.82	1480.4
200	6.80	33.90	26.61	146.9	4.23	3.51	1480.1
225	6.49	33.93	26.67	141.4	4.60	4.28	1479.3
250	6.28	33.92	26.69	139.5	4.95	5.11	1478.9
300	5.81	33.96	26.78	131.4	5.62	6.97	1477.8
400	5.05	34.01	26.91	119.9	6.89	11.39	1476.4
500	4.67	34.08	27.01	111.1	8.05	16.62	1476.6
600	4.34	34.14	27.09	103.7	9.12	22.49	1476.9
800	3.89	34.28	27.25	89.7	11.04	35.90	1478.5

DEEPEST MEASUREMENT :

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
995.1	3.43	34.38	27.38	78.4	12.67	50.51	1479.9

WIND MIXED LAYER DEPTH = 18.4 METRES



CRUISE : C.O.D.E. 79-12.

STATION: WC43 CONS #045

LAT N 49 47.0 LONG W 128 29.0

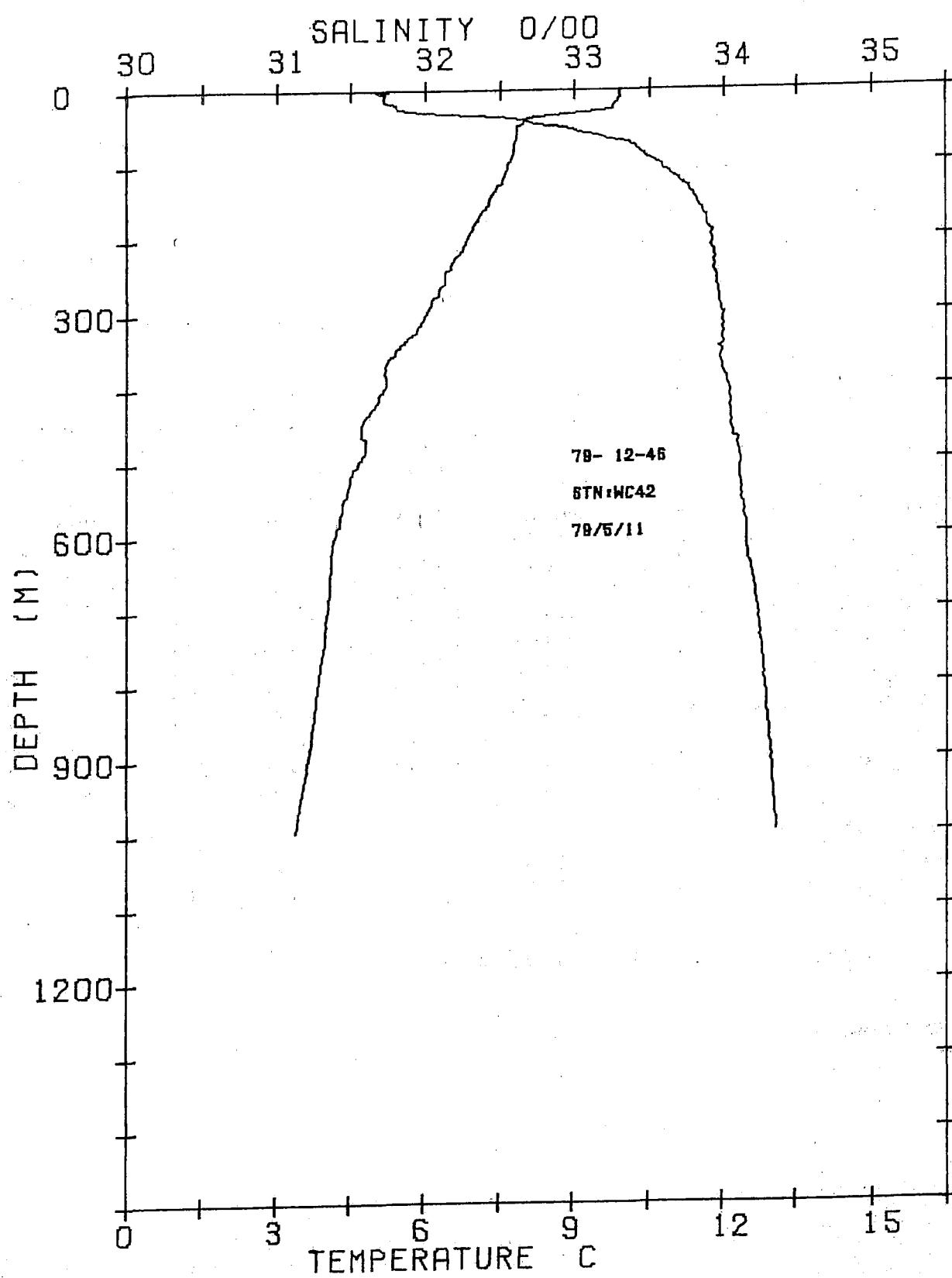
DATE 79/05/10 TIME (PST) 2324

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
0	9.79	31.80	24.51	343.1	.00	.00	1485.5
10	9.66	31.80	24.53	341.2	.34	.02	1485.2
20	9.48	31.90	24.64	331.3	.68	.07	1484.8
30	8.31	32.26	25.11	287.0	.99	.15	1481.0
50	7.91	32.73	25.53	247.2	1.53	.36	1480.4
75	7.79	33.26	25.96	206.3	2.08	.70	1481.1
100	7.66	33.60	26.25	179.9	2.56	1.12	1481.4
125	7.55	33.76	26.39	166.9	2.99	1.61	1481.6
150	7.25	33.83	26.49	157.6	3.40	2.16	1480.9
175	7.03	33.88	26.56	151.1	3.78	2.78	1480.5
200	6.91	33.90	26.59	148.2	4.16	3.49	1480.5
225	6.63	33.92	26.64	143.7	4.52	4.26	1479.8
250	6.40	33.94	26.69	139.8	4.88	5.10	1479.4
300	6.00	33.95	26.75	134.3	5.56	6.99	1478.6
400	5.24	34.01	26.89	121.9	6.84	11.46	1477.2
500	4.66	34.09	27.02	109.9	8.00	16.67	1476.6
600	4.38	34.15	27.10	103.1	9.06	22.48	1477.1
800	3.82	34.29	27.26	88.5	10.96	35.73	1478.2

DEEPEST MEASUREMENT :

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
995.3	3.41	34.39	27.39	77.5	12.57	50.15	1479.8

WIND MIXED LAYER DEPTH = 19.1 METRES



CRUISE : C.O.D.E. 79-12.

STATION: WC42 CONS #046

LAT N 49 41.8 LONG W 128 36.3

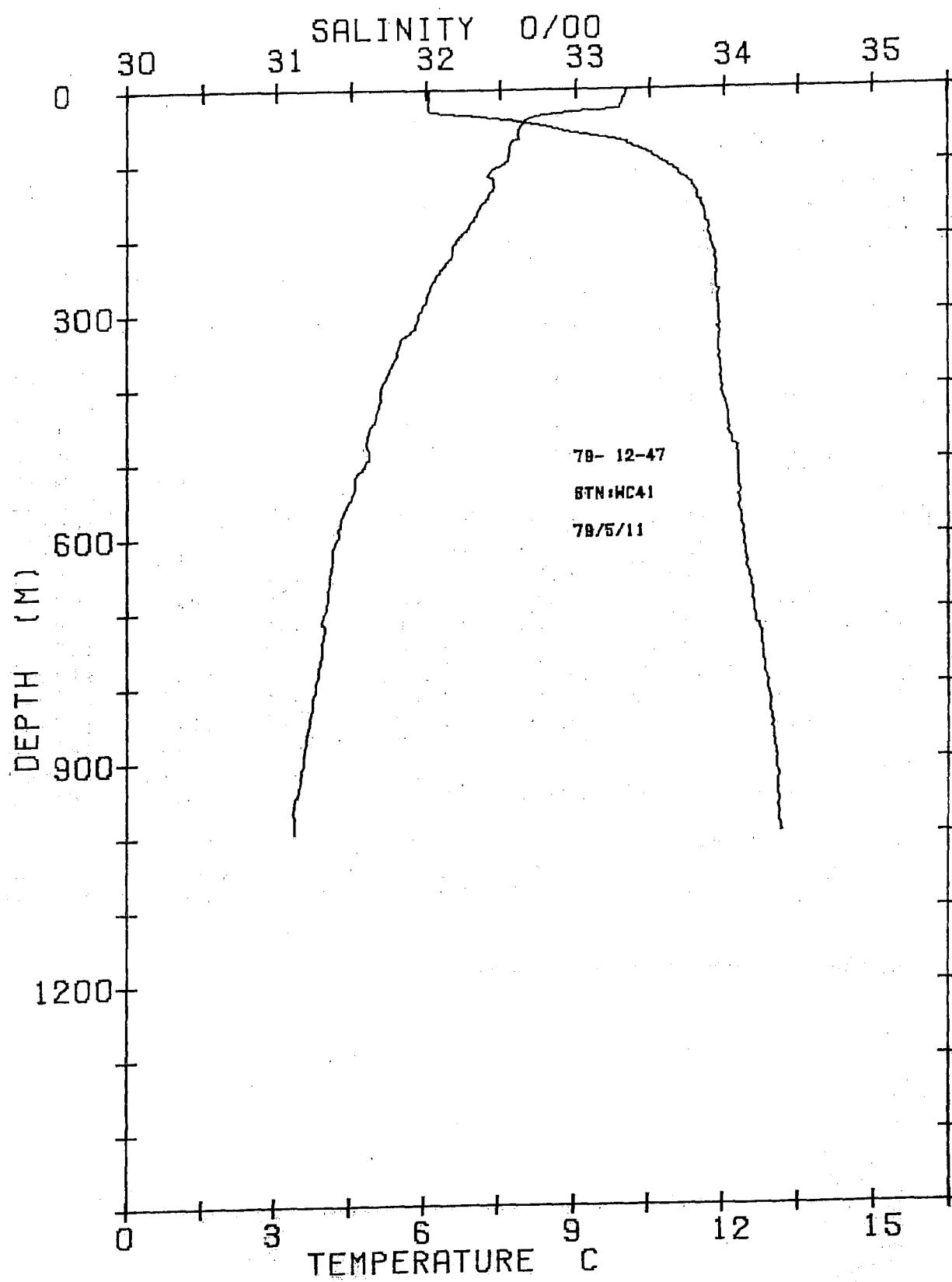
DATE 79/05/11 TIME (PST) 0056

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
0	9.92	31.64	24.37	556.3	.00	.00	1485.8
10	9.92	31.72	24.43	350.7	.35	.02	1486.1
20	9.80	31.81	24.52	342.5	.70	.07	1485.9
30	9.23	31.99	24.75	320.7	1.03	.15	1484.2
50	7.84	32.95	25.71	229.5	1.56	.36	1480.4
75	7.78	33.41	26.08	194.7	2.09	.69	1481.2
100	7.66	33.58	26.23	181.3	2.56	1.10	1481.4
125	7.53	33.72	26.36	169.0	3.00	1.60	1481.5
150	7.27	33.82	26.48	158.7	3.41	2.15	1481.0
175	7.04	33.88	26.56	151.2	3.79	2.78	1480.6
200	6.85	33.92	26.61	146.1	4.16	3.48	1480.3
225	6.61	33.94	26.66	142.0	4.53	4.25	1479.8
250	6.39	33.95	26.70	138.8	4.88	5.09	1479.3
300	6.03	34.00	26.78	131.3	5.56	6.95	1478.7
400	5.23	34.04	26.91	119.7	6.82	11.34	1477.2
500	4.67	34.12	27.04	107.7	7.95	16.45	1476.6
600	4.19	34.16	27.13	100.2	9.00	22.18	1476.3
800	3.85	34.29	27.26	88.5	10.88	35.32	1478.3

DEEPEST MEASUREMENT :

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
995.2	3.40	34.37	27.37	78.7	12.52	49.98	1479.8

WIND MIXED LAYER DEPTH = 26.7 METRES



CRUISE : C.O.D.E. 79-12.

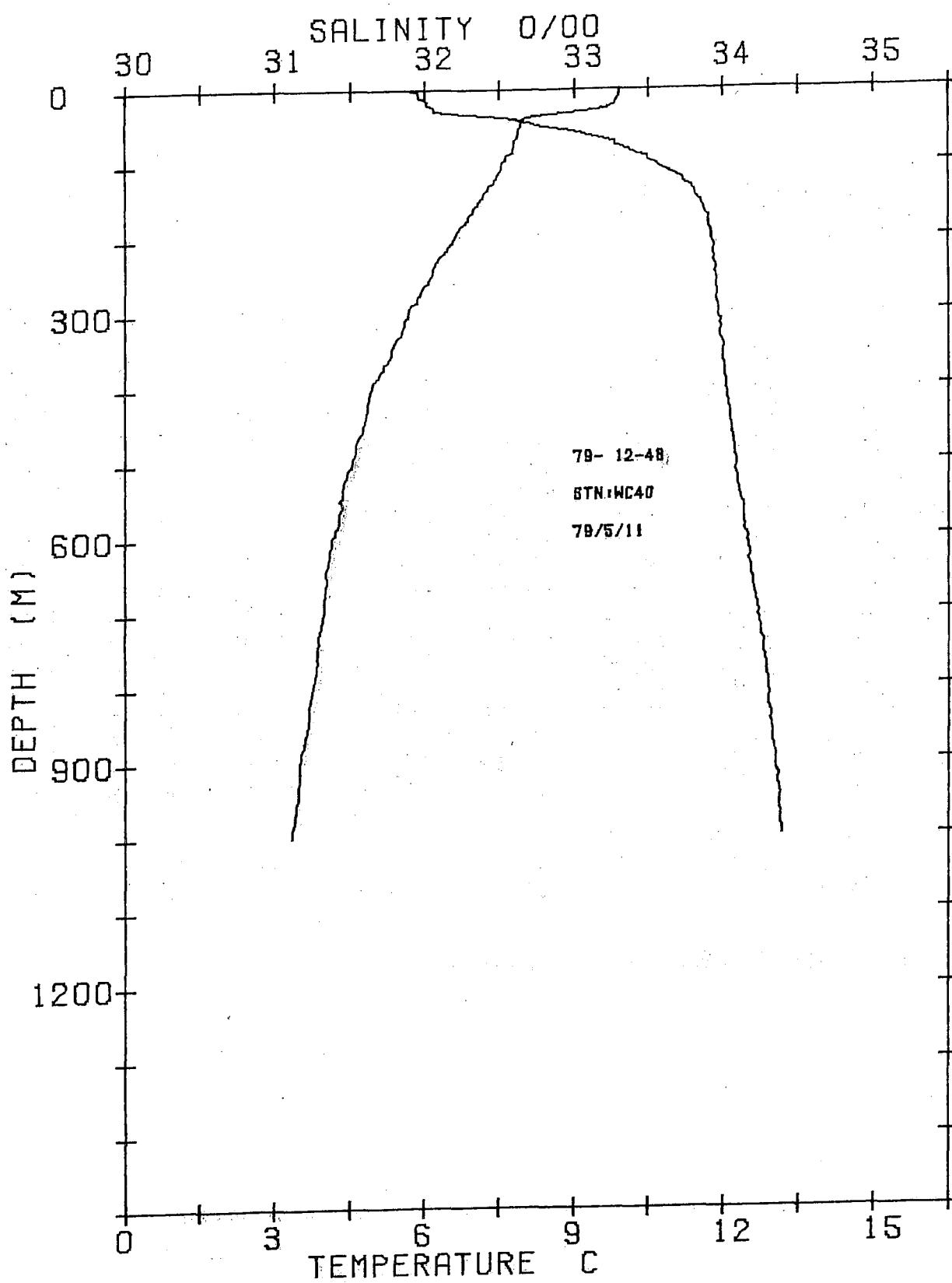
STATION: WC41 CONS #047
 LAT N 49 36.5 LONG W 128 44.1
 DATE 79/05/11 TIME (PST) 0222

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
0	10.01	32.01	24.64	330.6	.00	.00	1486.6
10	10.00	32.02	24.65	330.1	.33	.02	1486.7
20	9.92	32.01	24.66	329.8	.66	.07	1486.6
30	8.93	32.03	24.83	313.4	.99	.15	1483.1
50	7.90	32.84	25.62	238.6	1.52	.36	1480.5
75	7.67	33.38	26.07	195.8	2.06	.69	1480.7
100	7.59	33.62	26.28	176.9	2.52	1.10	1481.2
125	7.36	33.78	26.43	162.4	2.94	1.57	1480.9
150	7.19	33.84	26.50	155.9	3.34	2.12	1480.7
175	6.96	33.87	26.56	150.8	3.72	2.74	1480.3
200	6.66	33.91	26.63	144.7	4.09	3.43	1479.5
225	6.50	33.93	26.67	141.2	4.45	4.19	1479.3
250	6.20	33.94	26.71	137.0	4.80	5.01	1478.6
300	5.86	33.96	26.77	132.2	5.47	6.86	1478.0
400	5.11	33.99	26.89	121.7	6.74	11.31	1476.6
500	4.80	34.10	27.01	110.8	7.91	16.55	1477.1
600	4.25	34.14	27.10	102.3	8.98	22.41	1476.6
800	3.81	34.30	27.27	87.3	10.87	35.65	1478.2

DEEPEST MEASUREMENT :

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
995.9	3.38	34.39	27.39	76.9	12.47	49.93	1479.7

WIND MIXED LAYER DEPTH = 24.3 METRES



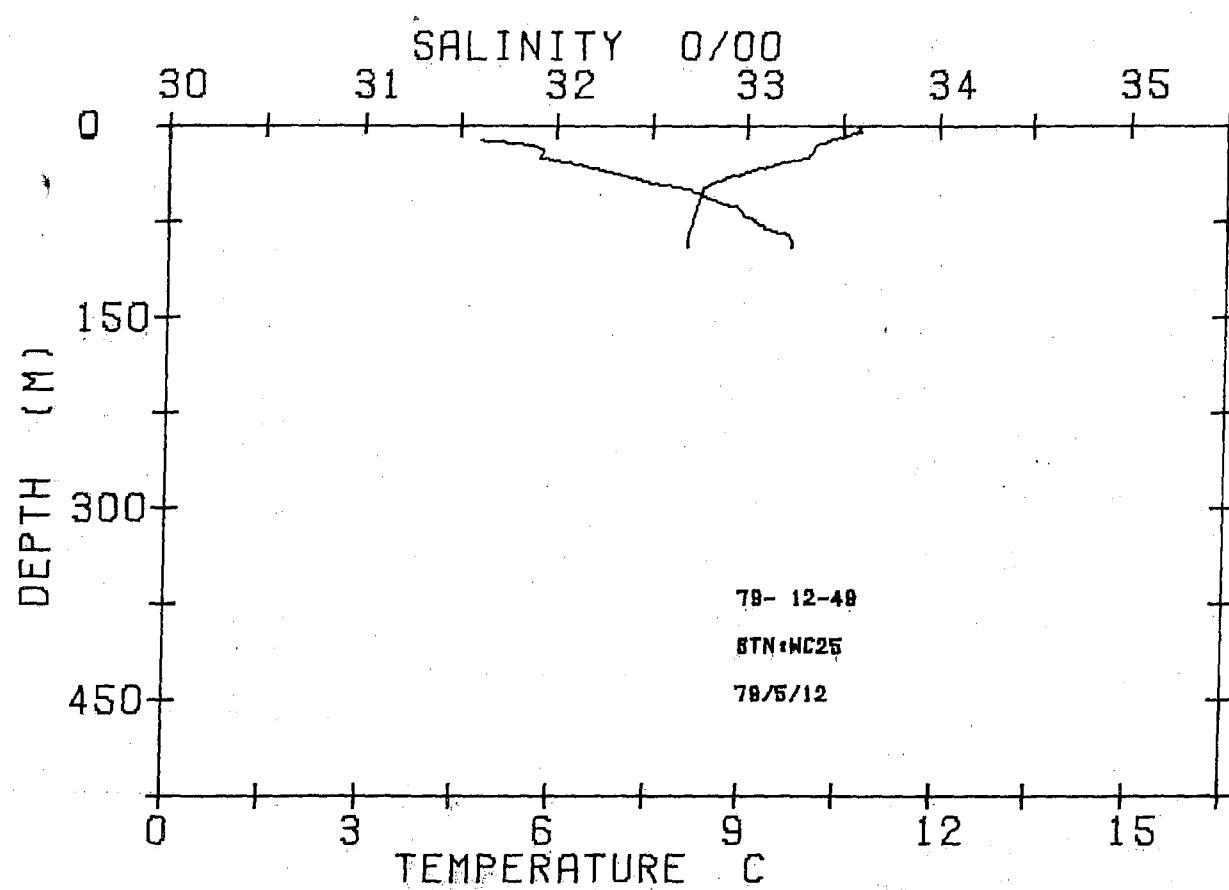
CRUISE : C.O.D.E. 79-12.
 STATION: WC40 CONS #048
 LAT N 49 31.5 LONG W 128 52.0
 DATE 79/05/11 TIME (PST) 0353

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
0	9.90	31.95	24.61	333.7	.00	.00	1486.1
10	9.91	31.96	24.62	332.7	.33	.02	1486.3
20	9.82	32.01	24.68	327.9	.66	.07	1486.2
30	9.21	32.06	24.81	315.0	.98	.15	1484.2
50	7.92	32.80	25.58	241.9	1.51	.36	1480.6
75	7.79	33.28	25.98	205.0	2.06	.69	1481.1
100	7.57	33.56	26.23	181.5	2.54	1.11	1481.0
125	7.38	33.75	26.41	164.7	2.97	1.60	1480.9
150	7.10	33.85	26.52	154.1	3.37	2.14	1480.4
175	6.87	33.90	26.59	147.8	3.75	2.76	1479.9
200	6.60	33.92	26.65	143.1	4.11	3.43	1479.3
225	6.32	33.94	26.70	138.0	4.46	4.18	1478.6
250	6.15	33.95	26.73	136.0	4.80	4.99	1478.4
300	5.67	33.97	26.80	129.2	5.46	6.81	1477.3
400	4.94	34.02	26.93	117.3	6.70	11.12	1476.0
500	4.54	34.09	27.03	108.9	7.83	16.20	1476.1
600	4.14	34.17	27.13	99.3	8.87	21.94	1476.1
800	3.78	34.30	27.28	86.9	10.74	34.96	1478.1
1000	3.37	34.39	27.39	77.1	12.38	49.66	1479.7

DEEPEST MEASUREMENT :

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
1000.2	3.37	34.39	27.39	77.1	12.38	49.67	1479.7

WIND MIXED LAYER DEPTH = 24.5 METRES



CRUISE : C.O.D.E. 79-12.

STATION: WC25 CONS #049

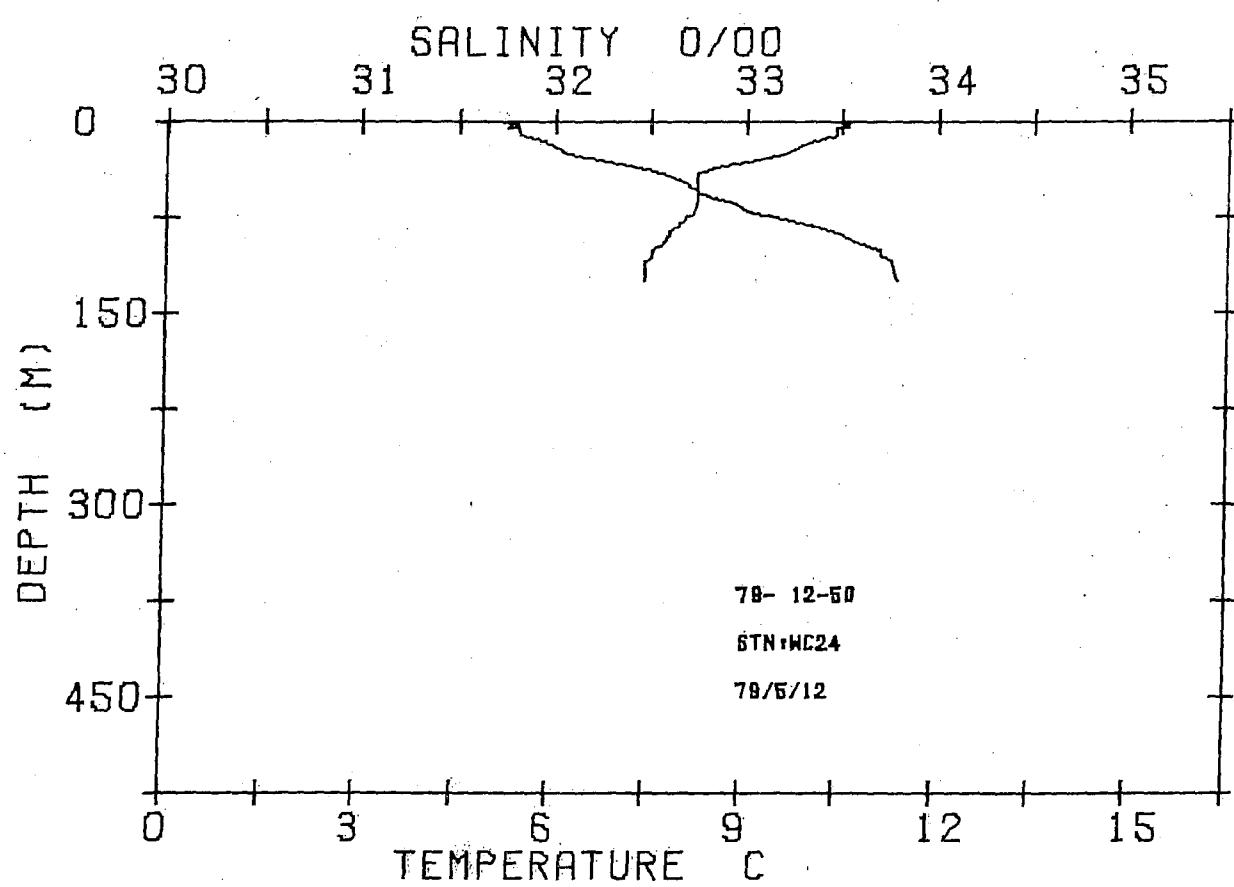
LAT N 49 21.2 LONG W 126 44.4

DATE 79/05/12 TIME (PST) 0134

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
0	10.73	25.39	19.39	833.5	.00	.00	1480.9
10	10.39	31.41	24.11	381.7	.77	.03	1487.4
20	10.04	31.93	24.57	337.8	1.12	.08	1486.9
30	9.50	32.10	24.80	316.4	1.45	.17	1485.3
50	8.30	32.69	25.44	255.6	2.02	.39	1481.9
75	8.17	33.04	25.74	227.6	2.63	.77	1482.2

DEEPEST MEASUREMENT :

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
95.2	8.07	33.24	25.91	211.9	3.06	1.14	1482.5

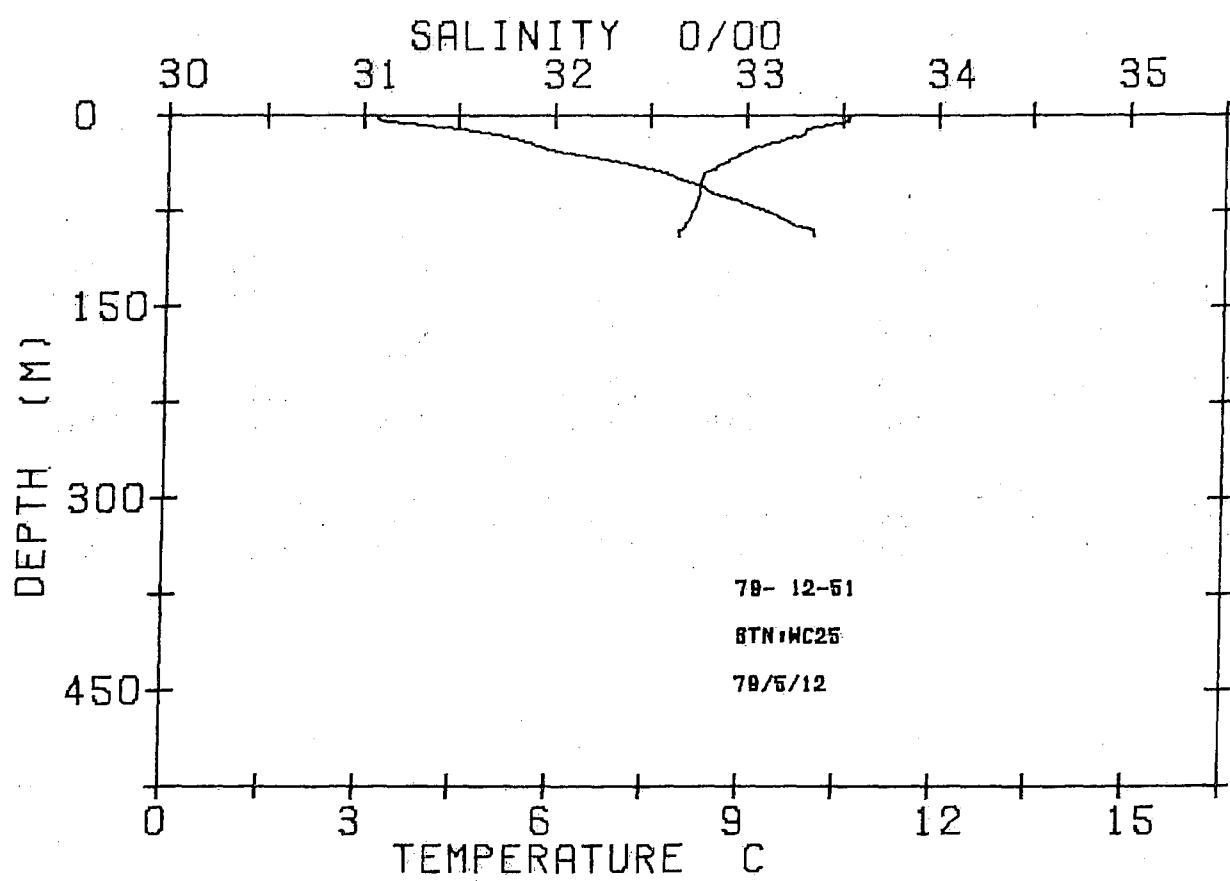


CRUISE : C.O.D.E. 79-12.
 STATION: WC24 CONS #050
 LAT N 49 15.8 LONG W 126 53.3
 DATE 79/05/12 TIME (PST) 0229

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT. EN	SOUND
0	10.62	31.72	24.31	362.1	.00	.00	1488.5
10	10.41	31.82	24.43	351.1	.35	.02	1488.0
20	9.83	31.99	24.66	329.8	.69	.07	1486.2
30	9.15	32.24	24.96	301.3	1.01	.15	1484.2
50	8.25	32.70	25.45	254.2	1.55	.36	1481.7
75	8.07	33.16	25.85	217.4	2.15	.73	1482.0
100	7.56	33.71	26.35	170.2	2.63	1.15	1481.2
125	7.40	33.80	26.44	161.4	3.04	1.61	1481.1

DEEPEST MEASUREMENT :

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT. EN	SOUND
125.2	7.40	33.80	26.44	161.3	3.04	1.62	1481.1



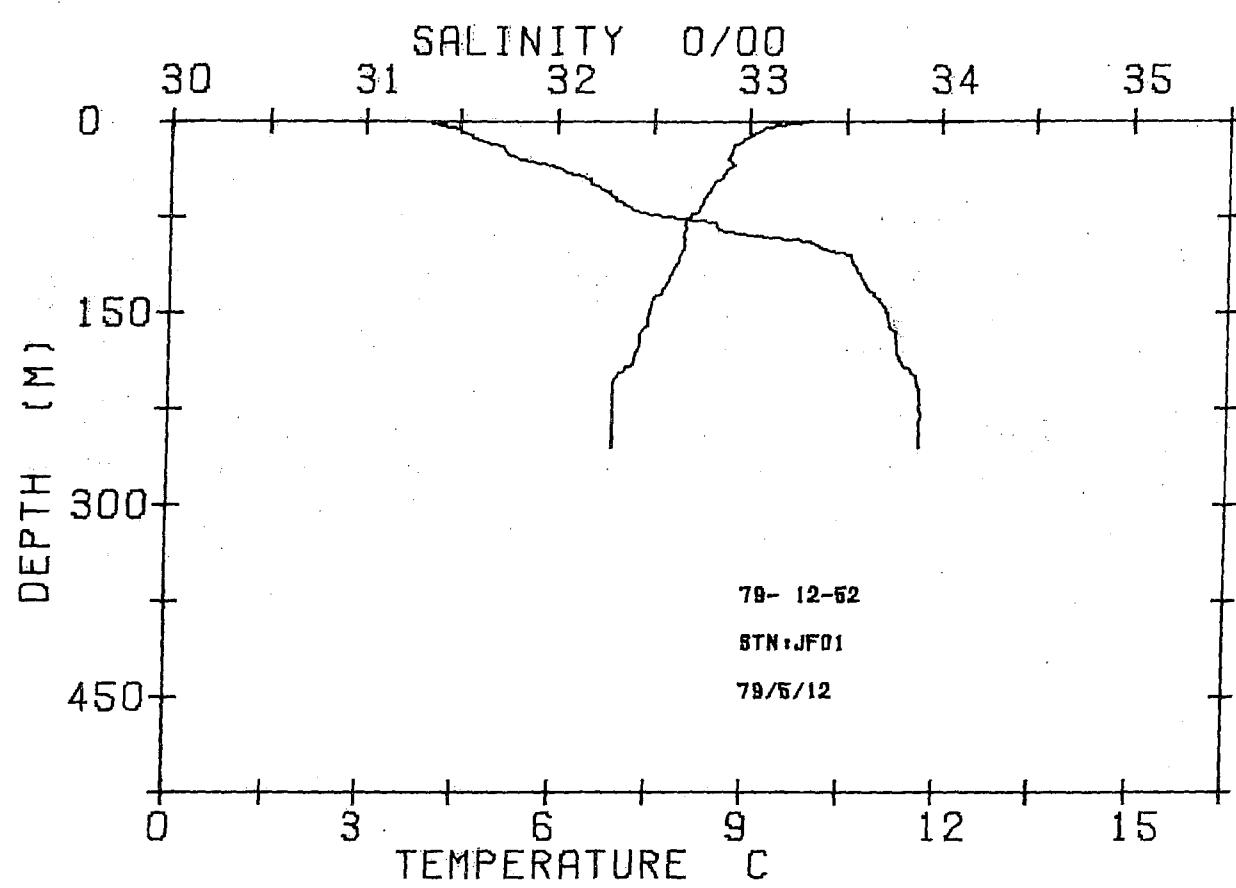
CRUISE : C.O.D.E. 79-12.

STATION: NC25 CONS #051
 LAT N 49 21.2 LONG W 126 44.4
 DATE 79/05/12 TIME (PST) 0330

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
0	10.61	31.07	23.81	410.0	.00	.00	1487.6
10	9.93	31.52	24.27	366.2	.40	.02	1485.8
20	9.56	31.84	24.58	336.8	.75	.07	1485.0
30	8.92	32.07	24.86	310.3	1.07	.15	1483.1
50	8.31	32.66	25.42	257.8	1.63	.37	1481.9
75	8.15	33.12	25.80	221.5	2.23	.75	1482.3

DEEPEST MEASUREMENT :

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
95.0	7.98	33.30	26.02	201.6	2.65	1.10	1482.3



CRUISE : C.O.D.E. 79-12.
 STATION: JF01 CONS #052
 LAT N 48 29.5 LONG W 124 46.4
 DATE 79/05/12 TIME (PST) 1246

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
0	9.88	31.38	24.18	375.1	.00	.00	1485.3
10	9.06	31.56	24.44	349.7	.36	.02	1482.7
20	8.76	31.73	24.62	332.9	.70	.07	1481.9
30	8.66	31.83	24.72	324.0	1.03	.15	1481.8
50	8.46	32.18	25.02	295.9	1.65	.40	1481.8
75	8.11	32.56	25.37	262.5	2.35	.83	1481.4
100	8.02	33.39	26.03	200.5	2.93	1.33	1482.5
125	7.78	33.60	26.23	181.7	3.39	1.86	1482.3
150	7.46	33.73	26.38	167.9	3.83	2.46	1481.6
175	7.31	33.78	26.44	162.3	4.24	3.13	1481.5
200	6.96	33.88	26.56	151.0	4.64	3.87	1480.7
225	6.90	33.90	26.59	148.9	5.01	4.66	1480.9
250	6.90	33.90	26.59	149.1	5.38	5.55	1481.3

DEEPEST MEASUREMENT :

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
255.2	6.90	33.90	26.59	149.0	5.46	5.74	1481.4

THIS PAGE IS BLANK

OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 12- 7 DATE 6/ 5/79 GMT 9.9
 POSITION 49-21.2 N, 126-44.4 W STATION 36
 HYDROGRAPHIC CAST DATA

OBSERVED DATA

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

0	9.69	31.746	6.930
10	9.67	31.747	6.930
19	9.05	31.971	6.280
29	8.39	32.184	5.760
48	8.15	32.382	4.820
72	8.19	32.628	5.160
97	8.13	32.933	4.770

OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 12- 10 DATE 6/ 5/79 GMT 12.4
 POSITION 49-35.9 N, 127- 1.2 W STATION 38
 HYDROGRAPHIC CAST DATA

OBSERVED DATA

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

0	9.82	32.143	6.900
10	9.80	32.144	6.740
20	9.74	32.143	6.730
30	8.67	32.620	6.630
50	8.35	32.734	6.400
75	8.10	33.013	4.900
100	7.90	33.310	4.030

OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 12- 13 DATE 6/ 5/79

GMT 14.4

POSITION 49-46.0 N, 127-20.0 W

STATION 40

HYDROGRAPHIC CAST DATA

OBSERVED DATA

DEPTH TEMP SAL OXY

0		32.085	6.790
10		32.086	6.690
20		32.089	6.660
30		32.101	6.480
50	8.27	32.445	5.200
75	8.22	32.572	5.030

OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 12- 16 DATE 6/ 5/79

GMT 18.9

POSITION 49-35.0 N, 127-37.6 W

STATION 42

HYDROGRAPHIC CAST DATA

OBSERVED DATA

DEPTH TEMP SAL OXY

0	9.71	32.126	7.200
10	9.70	32.126	6.930
20	9.61	32.128	6.990
30	9.14	32.246	7.020
49	7.88	32.671	5.930
74	7.85	33.004	5.290
98	7.78	33.349	4.480
121	7.71	33.606	3.720
145	7.65	33.780	3.090
169	7.39	33.855	2.880
192	7.12	33.906	2.650
239	6.38	33.945	2.640
287	5.83	33.973	2.120
384	5.29	34.060	1.230

OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 12- 19 DATE 7/ 5/79 GMT 22.3
POSITION 49-23.2 N, 127-55.0 W STATION 44
HYDROGRAPHIC CAST DATA

OBSERVED DATA

DEPTH	TEMP	SAL	OXY
0	9.67	31.736	6.170
10	9.67	31.735	6.640
20	9.36	31.740	6.560
30	8.42	32.374	5.950
50	7.91	32.662	5.950
75	7.88	33.205	4.460
100	7.76	33.555	3.790
125	7.67	33.766	3.260
150	7.12	33.846	3.200
175	6.92	33.912	2.920
199	6.76	33.936	2.880
249	5.97	33.924	2.750
300	5.50	33.956	2.080
402	5.30	34.078	1.080

OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 12- 23 DATE 7/ 5/79 GMT 19.2
POSITION 49-10.2 N, 127- 2.0 W STATION 34
HYDROGRAPHIC CAST DATA

OBSERVED DATA

DEPTH	TEMP	SAL	OXY
0	10.00	32.109	6.890
10	9.98	32.121	6.750
20	9.45	32.220	6.890
30	9.07	32.400	6.250
50	8.49	32.720	6.140
74	8.14	33.234	4.540
97	7.93	33.630	3.550
120	7.82	33.765	3.210
144	7.65	33.843	2.920
168	7.41	33.908	2.780
192	7.13	33.946	2.630
244	6.70	33.965	2.450
301	6.22	33.993	2.010

OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79-12-26 DATE 7/5/79 GMT 23.6
POSITION 48-59.0 N, 127-20.0 W STATION 32

HYDROGRAPHIC CAST DATA

OBSERVED DATA

DEPTH	TEMP	SAL	OXY
0	10.04	32.181	6.750
10	10.02	32.181	6.750
20	9.93		
30	8.92	32.389	7.060
50	8.60	32.750	6.140
75	6.70	33.202	4.690
100	7.98	33.618	3.330
125	7.84	33.789	2.920
150	7.56	33.864	2.780
175	7.43	33.912	2.590
200	7.23	33.922	2.880
250	6.67	33.970	2.440
300	5.99	33.949	2.520
400	5.28	34.031	1.360
500	4.67	34.069	.910
600	4.30	34.134	.660
800	3.80	34.277	.440
1000	3.46	34.387	.440
1200	3.05	34.428	.500
1500	3.05	34.518	.920

OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 12- 38 DATE 9/ 5/79 GMT 21.1

POSITION 49-14.0 N, 127-39.0 W

STATION 64

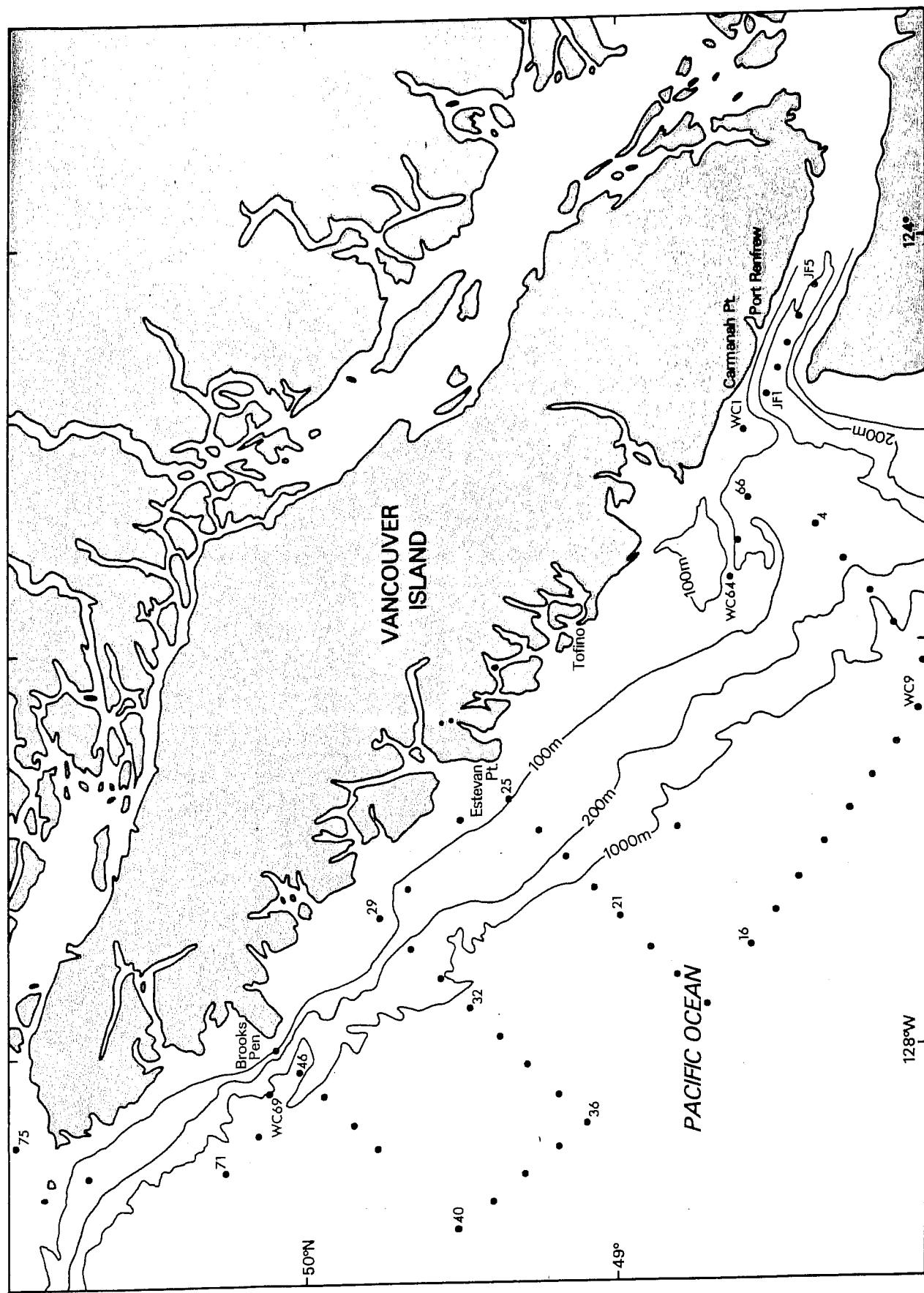
HYDROGRAPHIC CAST DATA

OBSERVED DATA

DEPTH	TEMP	SAL	OXY
0	10.23	31.931	6.760
10	10.07	31.933	6.700
20	9.98	31.936	6.700
30	9.17	31.930	6.710
49	8.35	32.572	6.210
74	8.17	32.907	5.300
98	7.81	33.365	4.210
123	7.51	33.608	3.780
148	7.18	33.725	3.610
172	7.02	33.823	3.260
203	6.76	33.874	3.140
253	6.49	33.956	2.570
303	5.73	33.991	1.880
403	5.29	34.043	1.250
503	4.80	34.143	.750
603	4.35	34.226	.510
804	3.64	34.336	.440
1006	3.25	34.405	.480
1210	2.97		

THIS PAGE IS BLANK

CRUISE 79-14
AUGUST 1979



COASTAL OCEANIC DYNAMICS EXPERIMENT

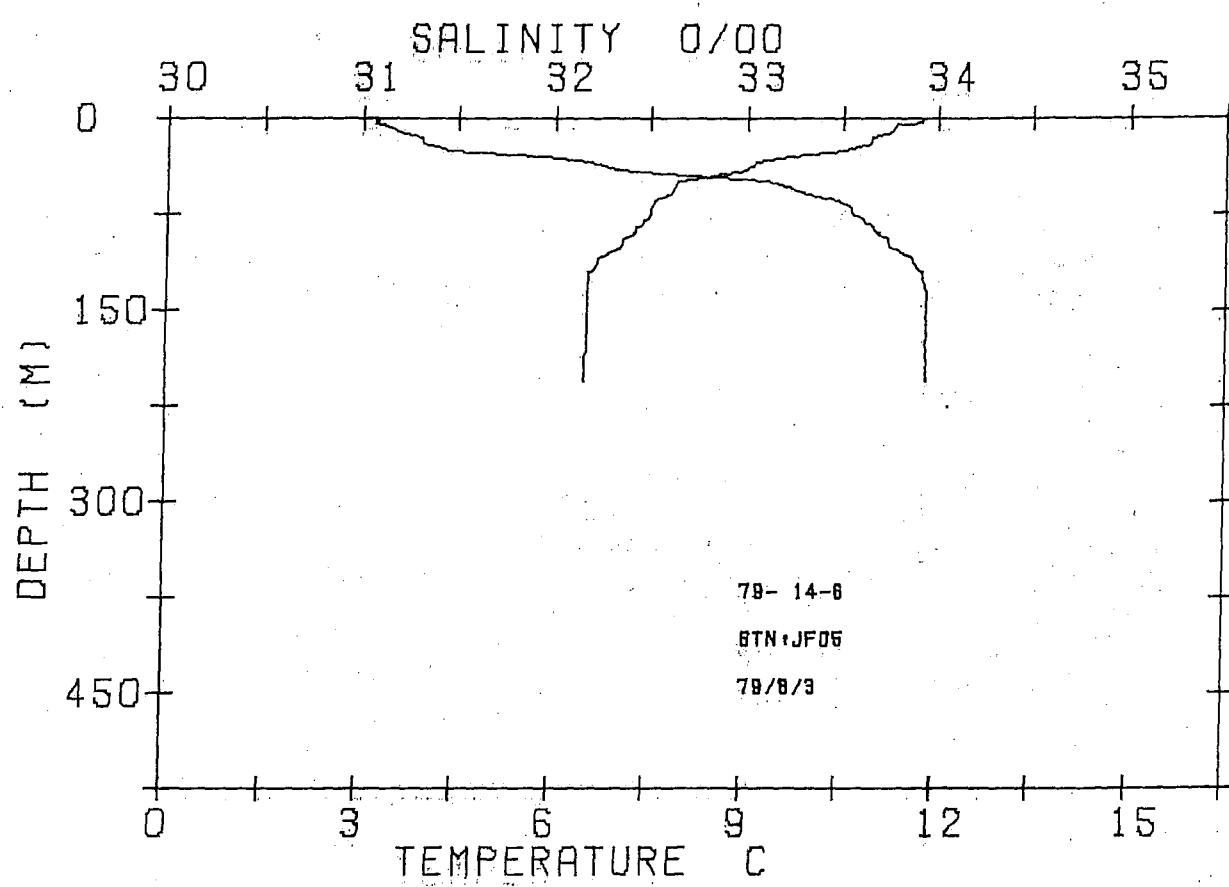
CRUISE 79-14. AUGUST 3 - AUGUST 11, 1979

A. CRUISE SUMMARY :

1. NUMBER OF STATIONS PROCESSED : 57
2. NUMBER OF STATIONS OF DEPTH GREATER THAN 80.0 METRES
FOR WHICH THE DEPTH OF WIND MIXED LAYER COULD BE IDENTIFIED : 38

B. PARAMETERS, SYMBOLS, UNITS :

DEPTH : DEPTH : METRES
TEMPERATURE : TEMP : DEGREES CELCIUS
SALINITY : SAL : GRAMS PER KILOGRAM
SIGMA - T : SIG-T : (DIMENSIONLESS)
SPECIFIC VOLUME ANOMALY : SVA : $10\text{EXP}(-5)*\text{CM}*\text{EXP}(3)/\text{GRAM}$
GEOPOTENTIAL ANOMALY : DELTA-D : JOULES/KGR
POTENTIAL ENERGY : POT.EN : $10\text{EXP}(8)\text{ERGS}/(\text{CM}*\text{CM})$
SPEED OF SOUND : SOUND : METRES/SECOND. -WILSON 1960-

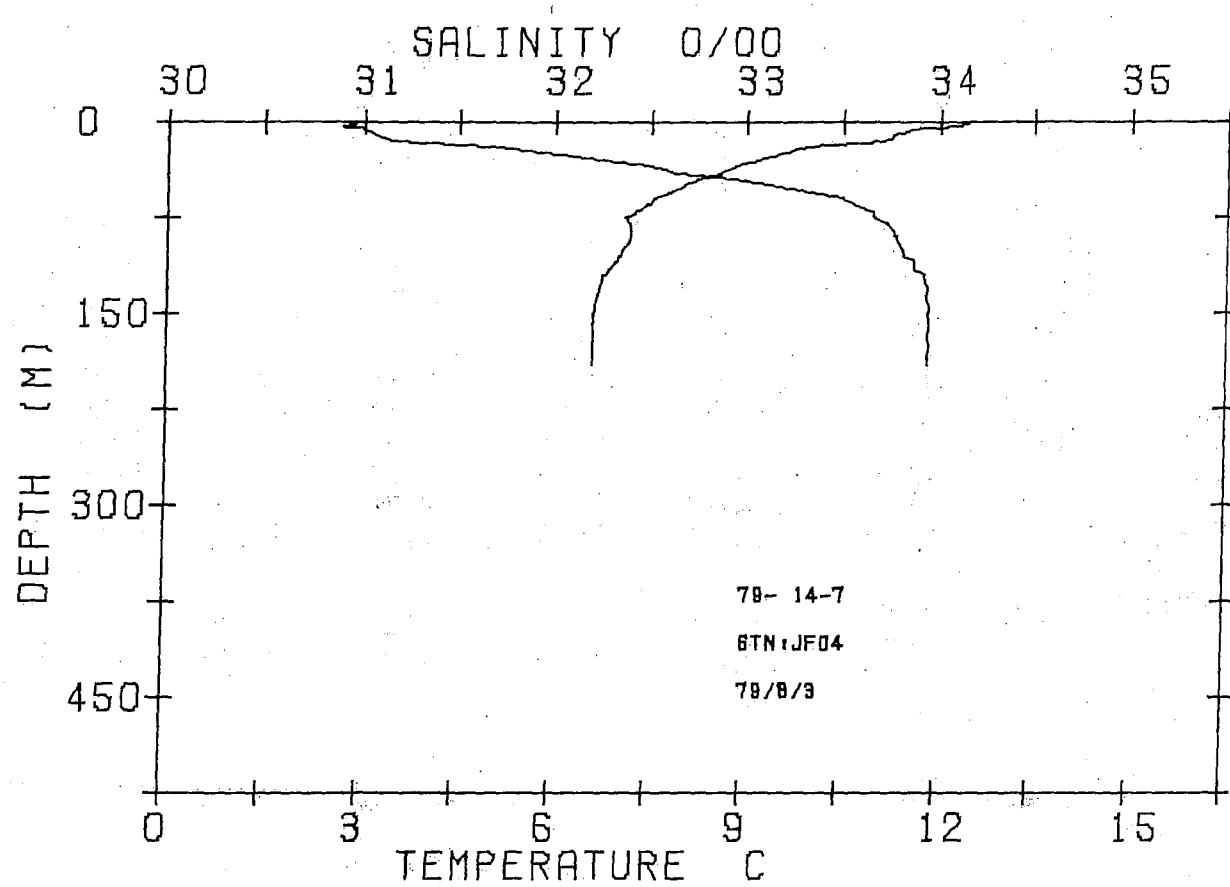


CRUISE : C.O.D.E. 79-14.
 STATION: JF05 CONS #006
 LAT N 48 21.0 LONG W 124 14.2
 DATE 79/08/03 TIME (PST) 1835

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT. EN	SOUND
0	11.74	31.08	23.62	428.4	.00	.00	1491.6
10	11.24	31.18	23.79	412.2	.42	.02	1490.2
20	10.93	31.32	23.95	396.9	.82	.08	1489.4
30	9.67	31.91	24.62	333.4	1.20	.17	1485.7
50	7.93	33.11	25.82	219.3	1.76	.40	1481.0
75	7.49	33.56	26.24	180.0	2.25	.70	1480.3
100	7.02	33.75	26.46	159.6	2.67	1.07	1479.1
125	6.53	33.93	26.67	140.1	3.04	1.48	1477.8
150	6.51	33.95	26.68	139.0	3.39	1.96	1478.2
175	6.51	33.94	26.68	139.9	3.74	2.52	1478.6
200	6.49	33.95	26.68	139.6	4.08	3.18	1478.9

DEEPEST MEASUREMENT :

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT. EN	SOUND
205.0	6.49	33.95	26.68	139.7	4.15	3.32	1479.0

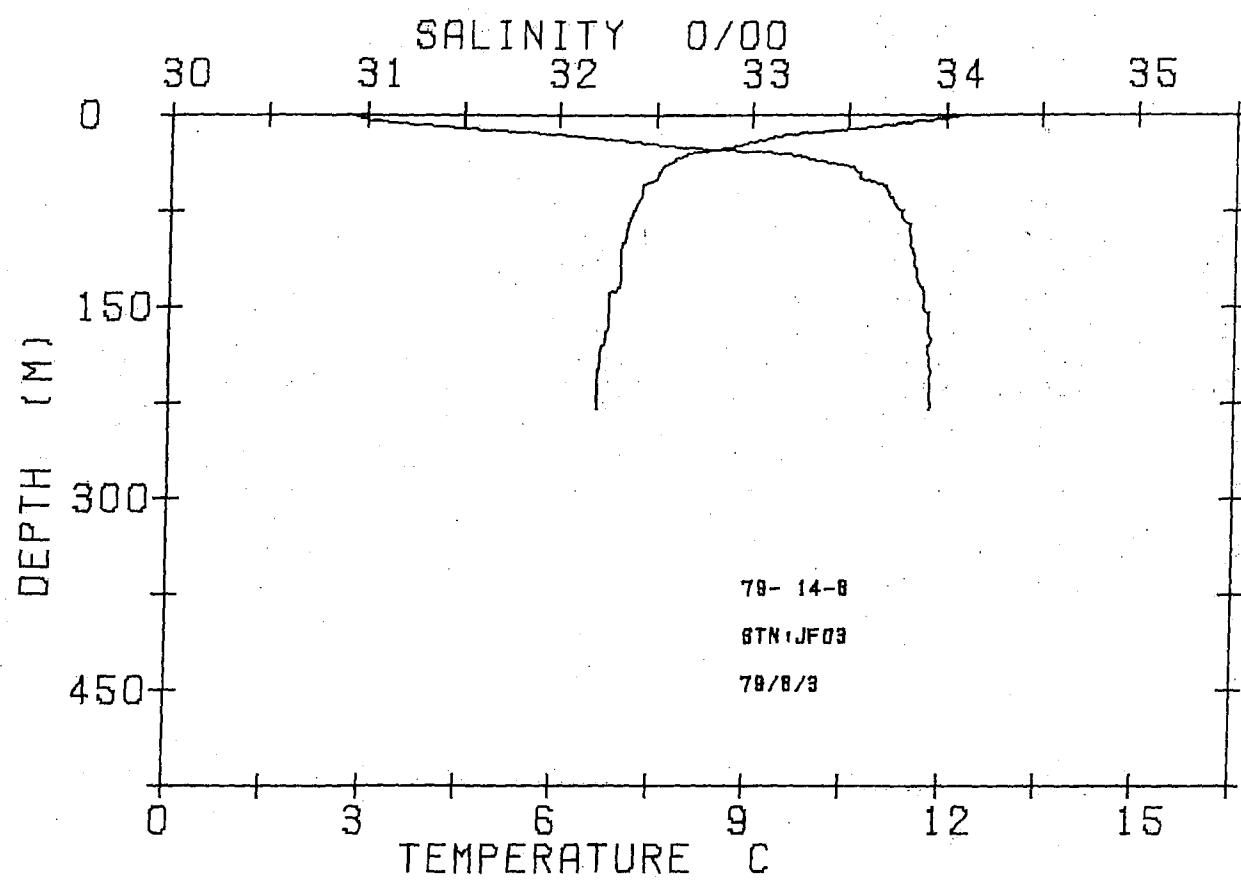


CRUISE : C.O.D.E. 79-14.
 STATION: JF04 CONS #007
 LAT N 48 24.5 LONG W 124 23.0
 DATE 79/08/03 TIME (PST) 1939

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT. EN	SOUND
0	12.47	30.95	23.38	450.7	.00	.00	1494.0
10	11.24	31.07	23.70	420.6	.44	.02	1490.0
20	9.90	31.69	24.41	353.1	.84	.08	1486.1
30	9.17	32.23	24.95	302.1	1.16	.16	1484.2
50	8.01	33.12	25.82	219.4	1.68	.37	1481.3
75	7.12	33.67	26.38	166.7	2.15	.65	1479.0
100	7.04	33.81	26.50	155.4	2.55	1.00	1479.3
125	6.72	33.93	26.64	142.9	2.92	1.42	1478.6
150	6.61	33.94	26.66	140.9	3.27	1.91	1478.6
175	6.60	33.95	26.67	140.7	3.62	2.48	1478.9

DEEPEST MEASUREMENT :

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT. EN	SOUND
190.0	6.59	33.94	26.66	141.1	3.84	2.87	1479.1

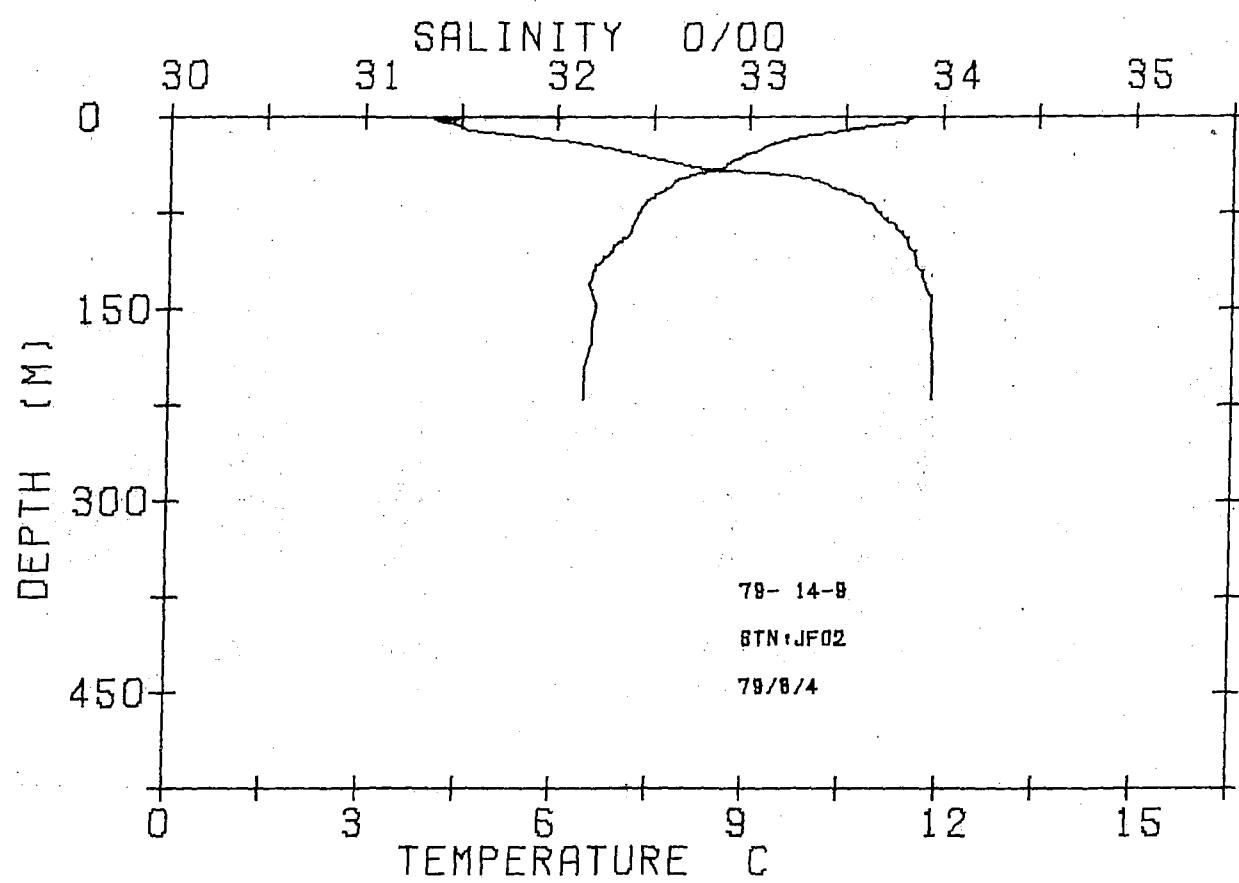


CRUISE : C.O.D.E. 79-14.
 STATION: JF03 CONS #008
 LAT N 48 26.0 LONG W 124 31.0
 DATE 79/08/03 TIME (PST) 2039

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
0	12.17	30.94	23.44	445.5	.00	.00	1493.0
10	10.66	31.50	24.13	379.4	.42	.02	1488.5
20	9.13	32.29	25.00	296.9	.75	.07	1484.0
30	7.97	33.19	25.88	213.2	1.01	.13	1480.9
50	7.49	33.57	26.25	178.4	1.39	.28	1479.9
75	7.14	33.78	26.46	159.0	1.81	.54	1479.2
100	6.99	33.83	26.52	153.6	2.20	.88	1479.1
125	6.99	33.86	26.55	151.4	2.58	1.31	1479.5
150	6.82	33.89	26.60	147.1	2.95	1.82	1479.3
175	6.74	33.94	26.64	143.3	3.31	2.41	1479.5
200	6.64	33.94	26.65	142.4	3.67	3.08	1479.5
225	6.63	33.94	26.66	142.5	4.02	3.84	1479.9

DEEPEST MEASUREMENT :

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
230.0	6.63	33.93	26.65	142.9	4.10	4.00	1479.9



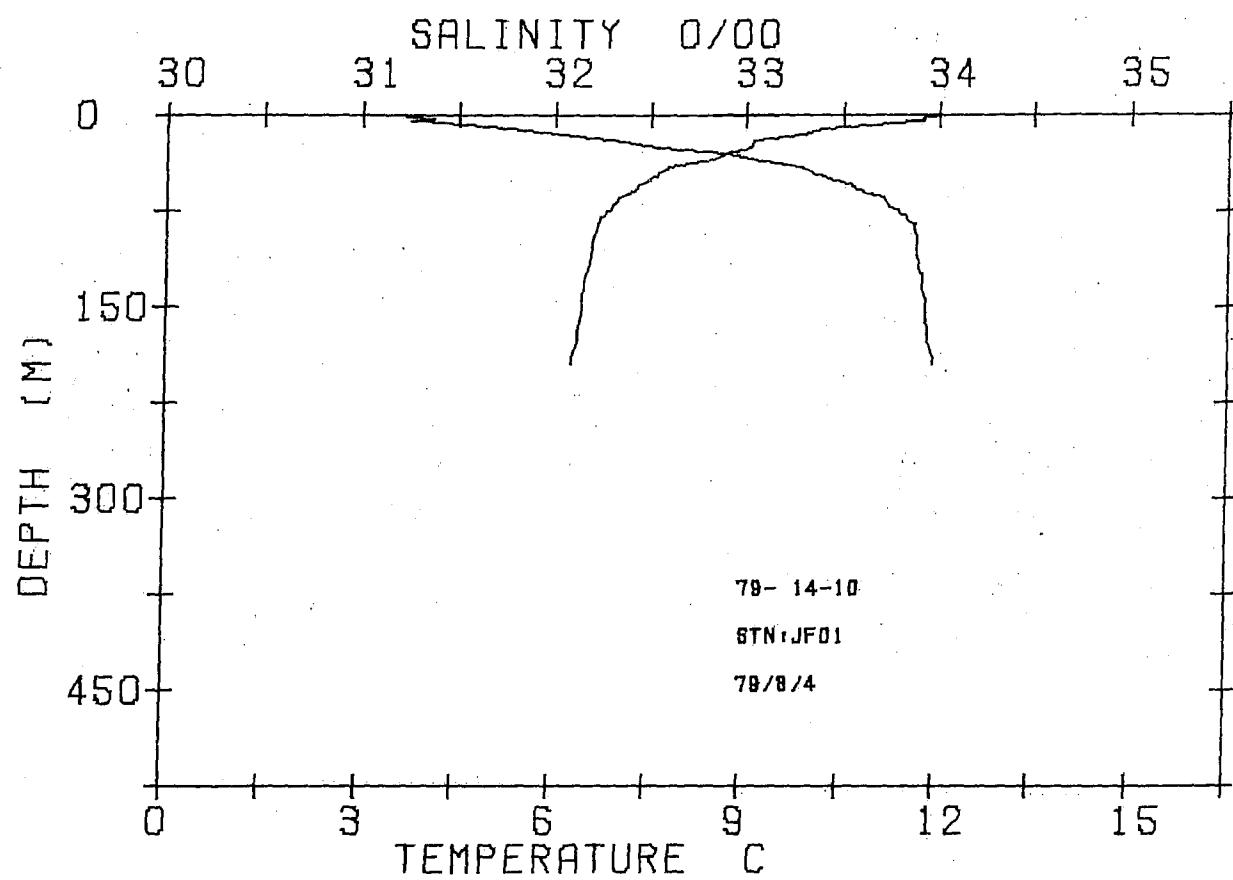
CRUISE : C.O.D.E. 79-14.
 STATION: JF02 CONS #009
 LAT N 48 28.5 LONG W 124 39.0
 DATE 79/08/04 TIME (PST) 0015

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
0	11.49	31.41	23.92	399.2	.00	.00	1491.2
10	10.46	31.53	24.19	373.7	.39	.02	1487.8
20	9.40	32.09	24.81	315.5	.73	.07	1484.8
30	8.90	32.44	25.15	282.5	1.03	.14	1483.5
50	7.83	33.35	26.03	199.5	1.52	.34	1480.9
75	7.25	33.68	26.37	167.6	1.97	.62	1479.5
100	6.91	33.83	26.54	152.1	2.37	.97	1478.8
125	6.56	33.90	26.64	142.8	2.74	1.38	1477.9
150	6.62	33.95	26.67	140.4	3.09	1.86	1478.6
175	6.56	33.96	26.68	139.2	3.44	2.43	1478.8
200	6.45	33.96	26.70	138.2	3.79	3.08	1478.8

DEEPEST MEASUREMENT :

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
220.1	6.44	33.96	26.70	138.5	4.06	3.66	1479.0

100

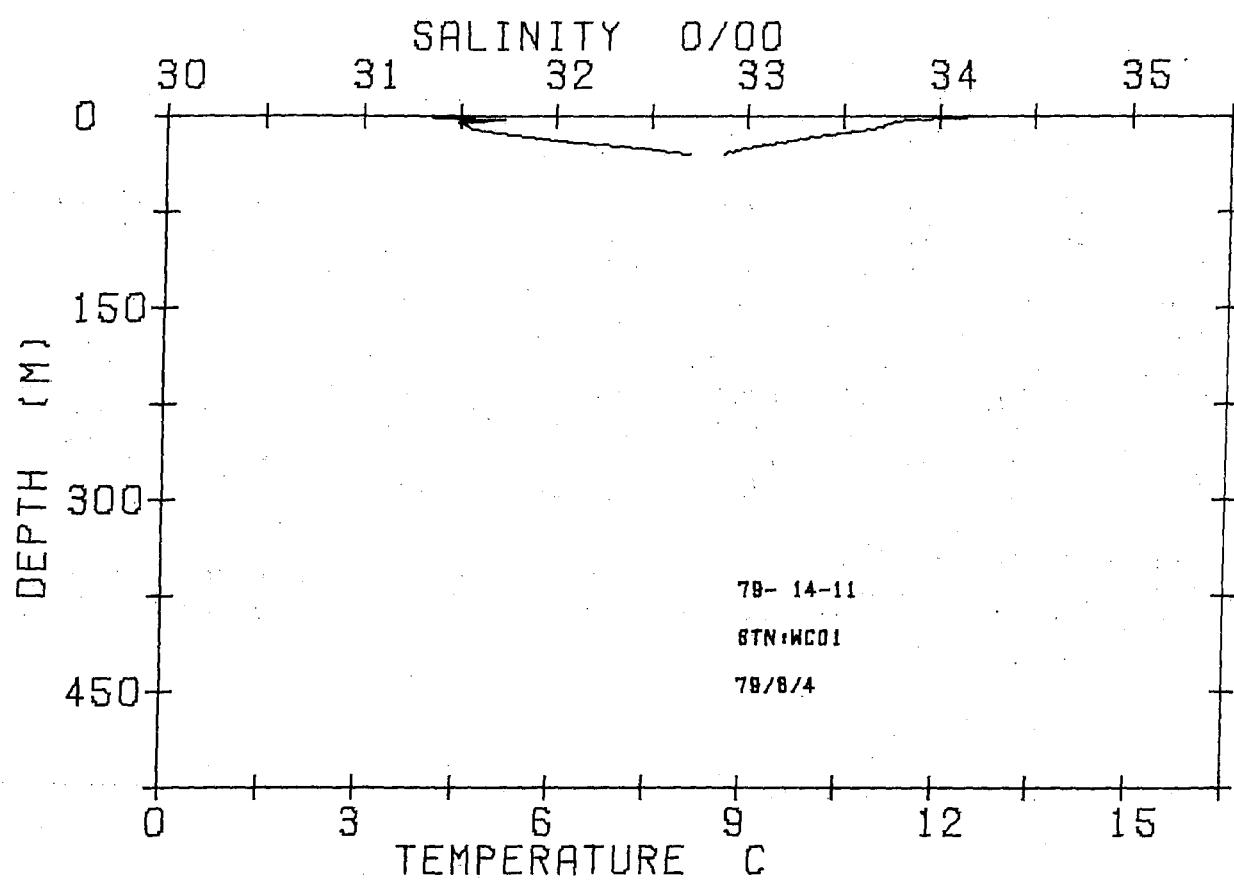


CRUISE : C.O.D.E. 79-14.
 STATION: JF01 CONS #010
 LAT N 48 30.5 LONG W 124 46.5
 DATE 79/08/04 TIME (PST) 0127

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
0	11.94	31.22	23.69	421.1	.00	.00	1492.5
10	10.14	31.75	24.42	352.0	.40	.02	1486.9
20	9.13	32.29	25.00	297.0	.72	.07	1484.0
30	8.67	32.90	25.55	244.9	1.00	.14	1483.2
50	7.50	33.43	26.14	189.3	1.42	.30	1479.7
75	6.80	33.79	26.52	153.6	1.85	.56	1477.9
100	6.58	33.89	26.63	143.4	2.21	.88	1477.5
125	6.47	33.92	26.66	140.6	2.57	1.29	1477.6
150	6.42	33.94	26.68	138.8	2.92	1.77	1477.8
175	6.36	33.95	26.71	137.0	3.26	2.33	1478.0

DEEPEST MEASUREMENT :

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
195.1	6.28	33.98	26.74	134.2	3.53	2.83	1478.0



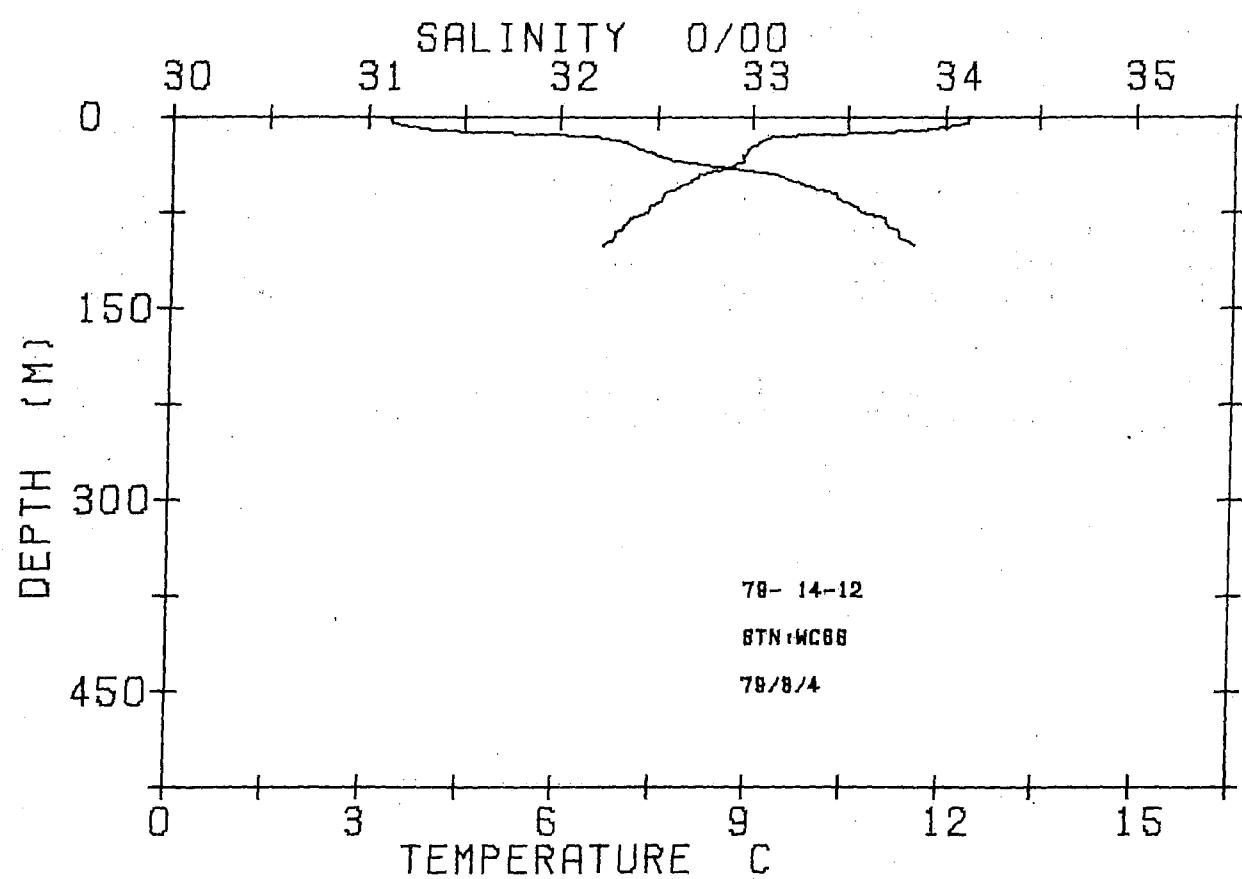
CRUISE : C.O.D.E. 79-14.
 STATION: WC01 CONS #011
 LAT N 48 35.5 LONG W 124 57.0
 DATE 79/08/04 TIME (PST) 0233

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
0	12.53	31.39	23.72	419.0	.00	.00	1494.8
10	10.99	31.56	24.13	379.8	.39	.02	1489.7
20	9.72	32.00	24.68	327.3	.74	.07	1485.8
30	8.65	32.70	25.39	259.7	1.03	.14	1482.9

DEEPEST MEASUREMENT :

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
30.2	8.65	32.70	25.40	259.0	1.04	.14	1482.9

104

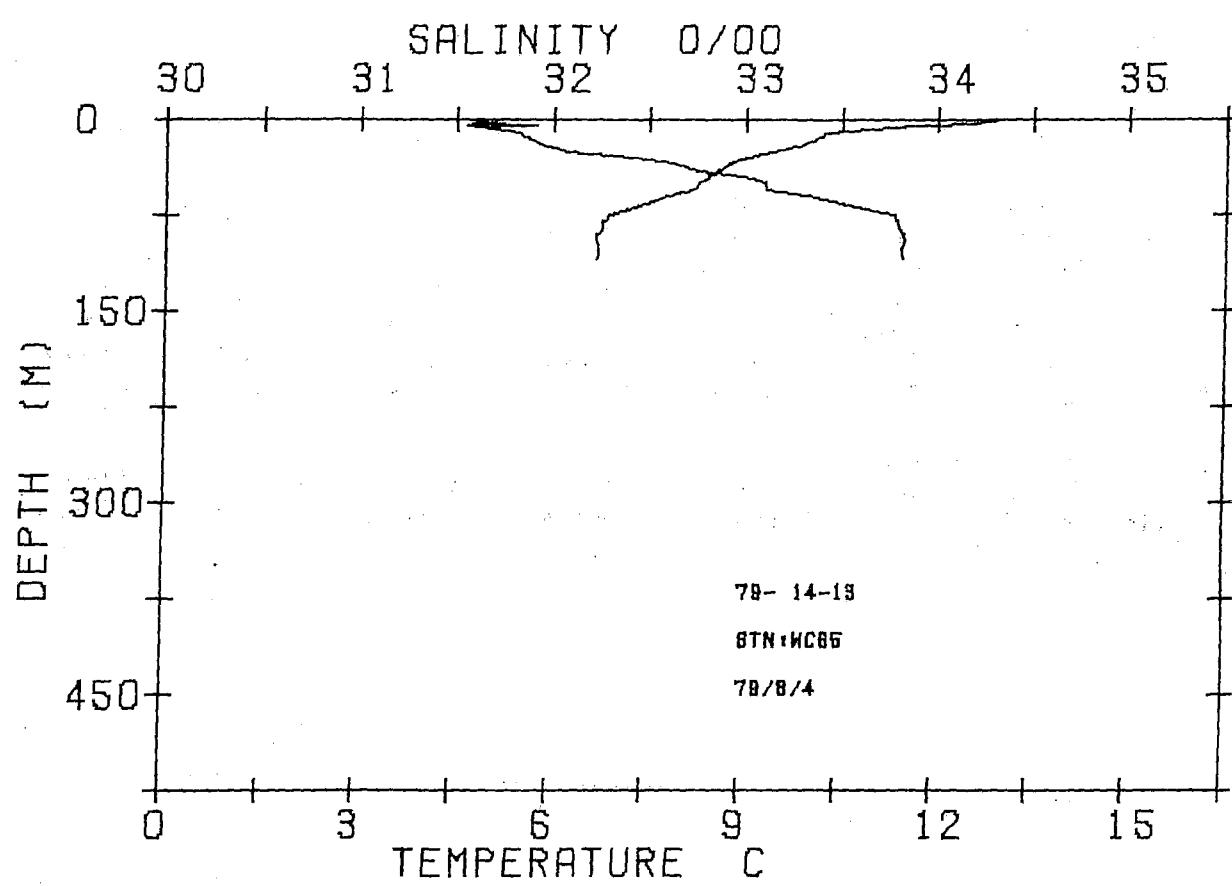


CRUISE : C.O.D.E. 79-14.
 STATION: WC66 CONS #012
 LAT N 48 34.5 LONG W 125 17.0
 DATE 79/08/04 TIME (PST) 0451

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
0	12.35	31.12	23.54	435.4	.00	.00	1493.8
10	11.59	31.33	23.84	406.9	.43	.02	1491.6
20	9.08	32.34	25.05	292.6	.76	.07	1483.9
30	8.84	32.51	25.22	276.2	1.04	.14	1483.4
50	8.03	33.20	25.88	213.3	1.53	.33	1481.5
75	7.32	33.58	26.28	176.2	2.01	.63	1479.7
100	6.68	33.84	26.57	148.4	2.41	.98	1477.9

DEEPEST MEASUREMENT :

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
100.0	6.68	33.84	26.57	148.4	2.41	.98	1477.9

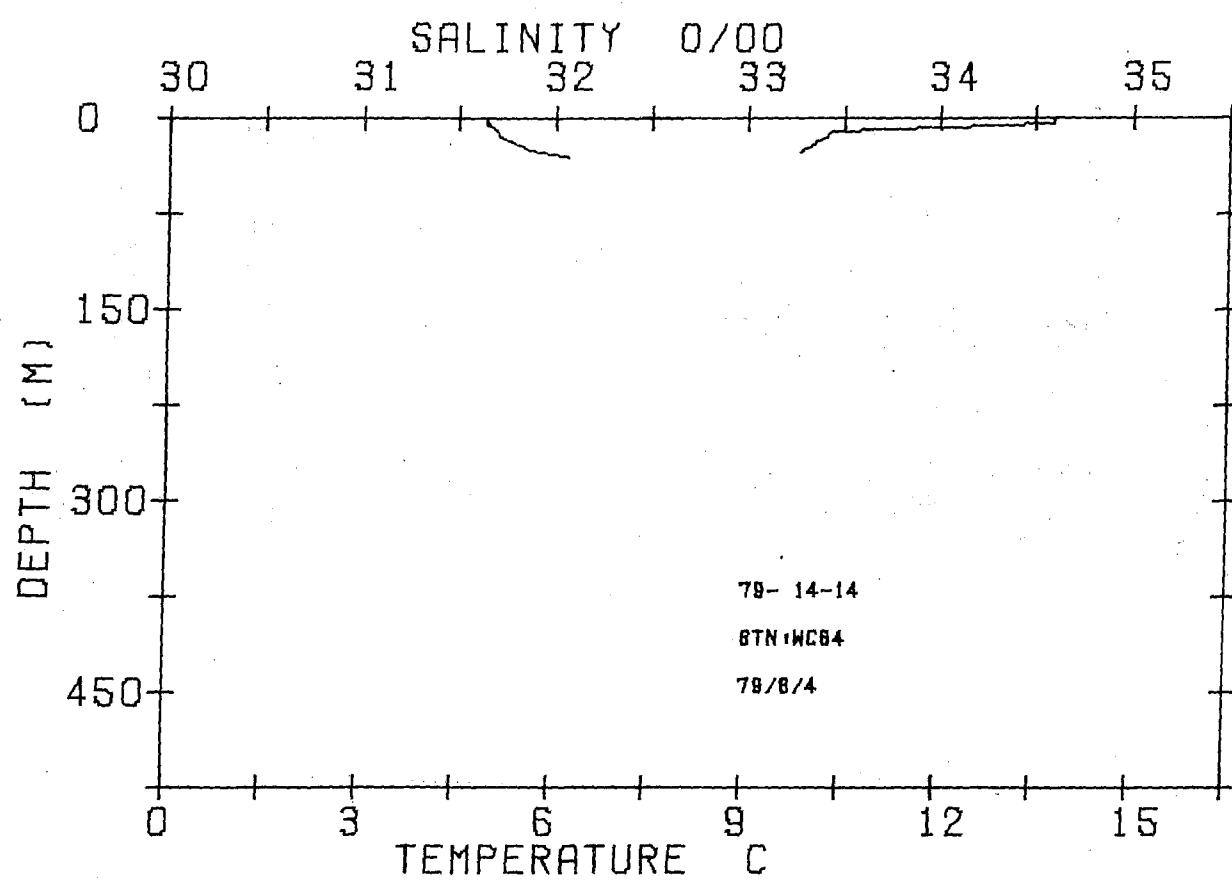


CRUISE : C.O.D.E. 79-14.
 STATION: WC65 CONS #013
 LAT N 48 36.5 LONG W 125 28.5
 DATE 79/08/04 TIME (PST) 0553

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
0	12.94	31.60	23.80	410.7	.00	.00	1496.4
10	10.22	31.83	24.47	347.7	.38	.02	1487.3
20	9.86	31.94	24.61	333.9	.73	.07	1486.3
30	8.99	32.41	25.12	285.9	1.04	.15	1483.8
50	8.29	33.10	25.76	225.1	1.54	.35	1482.4
75	6.87	33.78	26.50	155.5	2.03	.65	1478.2
100	6.71	33.82	26.55	150.6	2.41	.98	1478.0

DEEPEST MEASUREMENT :

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
110.0	6.68	33.83	26.57	149.2	2.56	1.13	1478.0

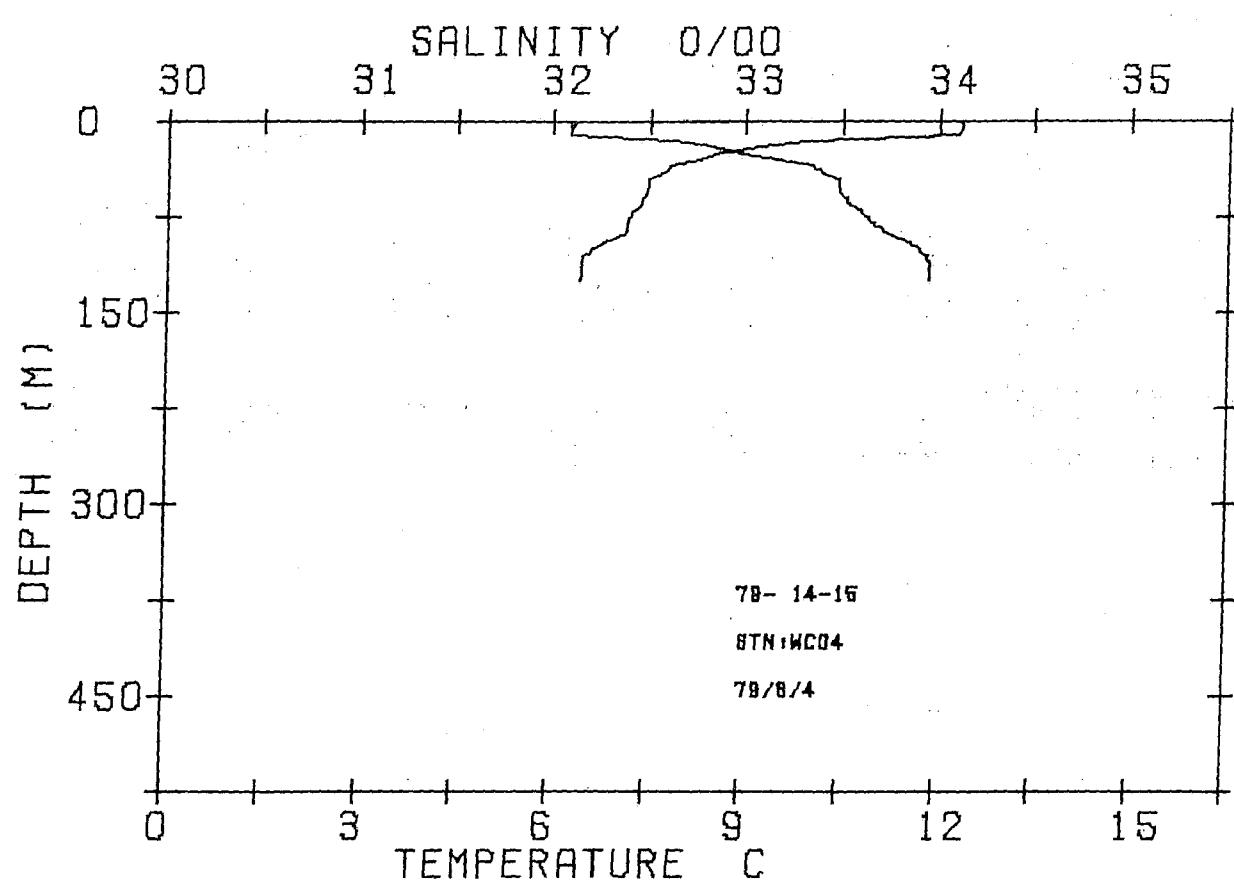


CRUISE : C.O.D.E. 79-14.
 STATION: WC64 CONS #014
 LAT N 48 38.5 LONG W 125 40.0
 DATE 79/08/04 TIME (PST) 0703

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
0	13.77	31.64	23.67	423.6	.00	.00	1499.3
10	10.34	31.70	24.34	359.3	.41	.02	1487.6
20	10.06	31.78	24.45	349.1	.76	.07	1486.8
30	9.66	32.04	24.72	323.9	1.10	.16	1485.8

DEEPEST MEASUREMENT :

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
45.1	8.52	32.83	25.52	247.7	1.55	.32	1482.8

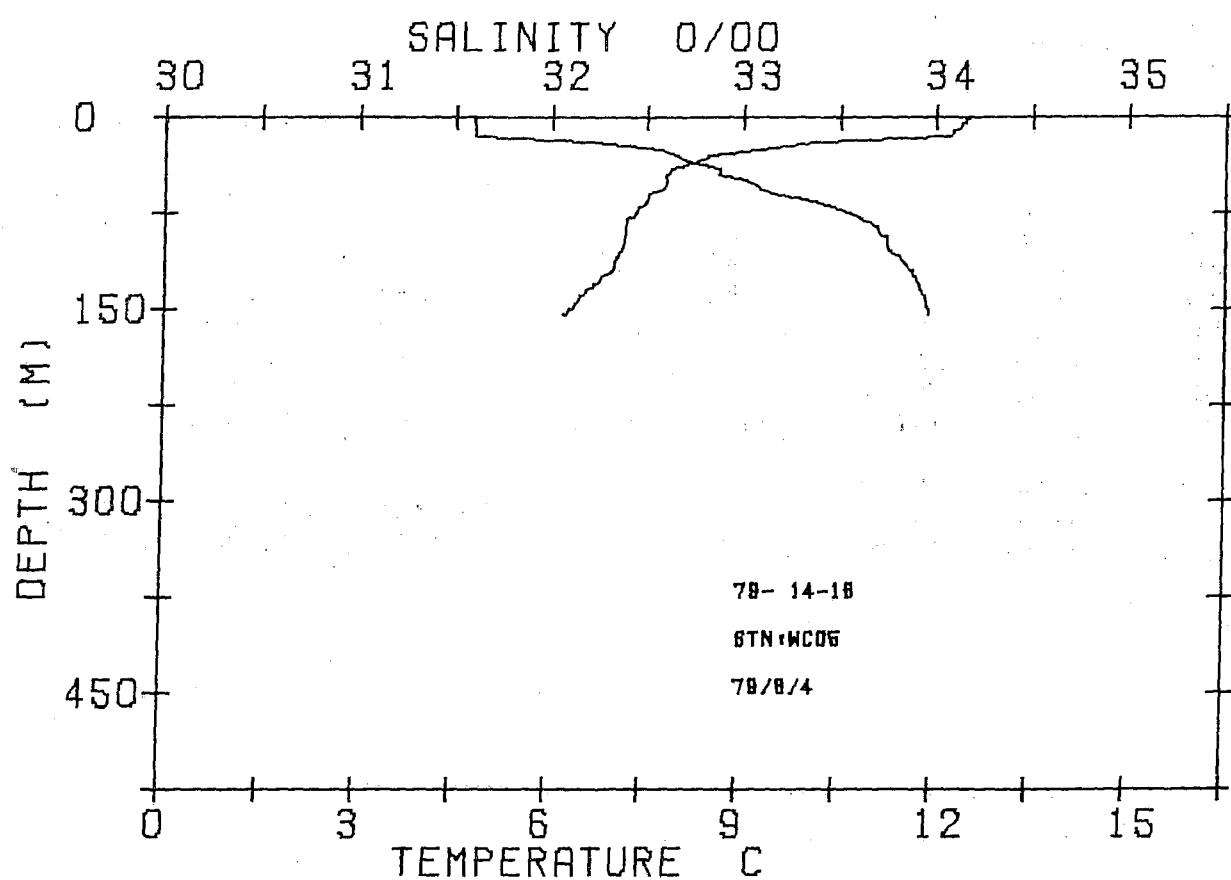


CRUISE : C.O.D.E. 79-14.
 STATION: WC04 CONS #015
 LAT N 48 21.5 LONG W 125 26.5
 DATE 79/08/04 TIME (PST) 0938

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT-EN	SOUND
0	12.32	32.11	24.31	362.0	.00	.00	1494.9
10	12.28	32.09	24.30	363.4	.36	.02	1494.9
20	9.19	32.83	25.41	257.7	.66	.06	1484.9
30	8.24	33.18	25.83	218.1	.90	.12	1482.0
50	7.46	33.48	26.18	184.9	1.29	.28	1479.7
75	7.17	33.63	26.34	170.2	1.74	.55	1479.1
100	6.60	33.90	26.63	143.2	2.14	.90	1477.6
125	6.43	33.95	26.70	137.3	2.48	1.29	1477.5

DEEPEST MEASUREMENT :

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT-EN	SOUND
125.0	6.43	33.95	26.70	137.3	2.48	1.29	1477.5



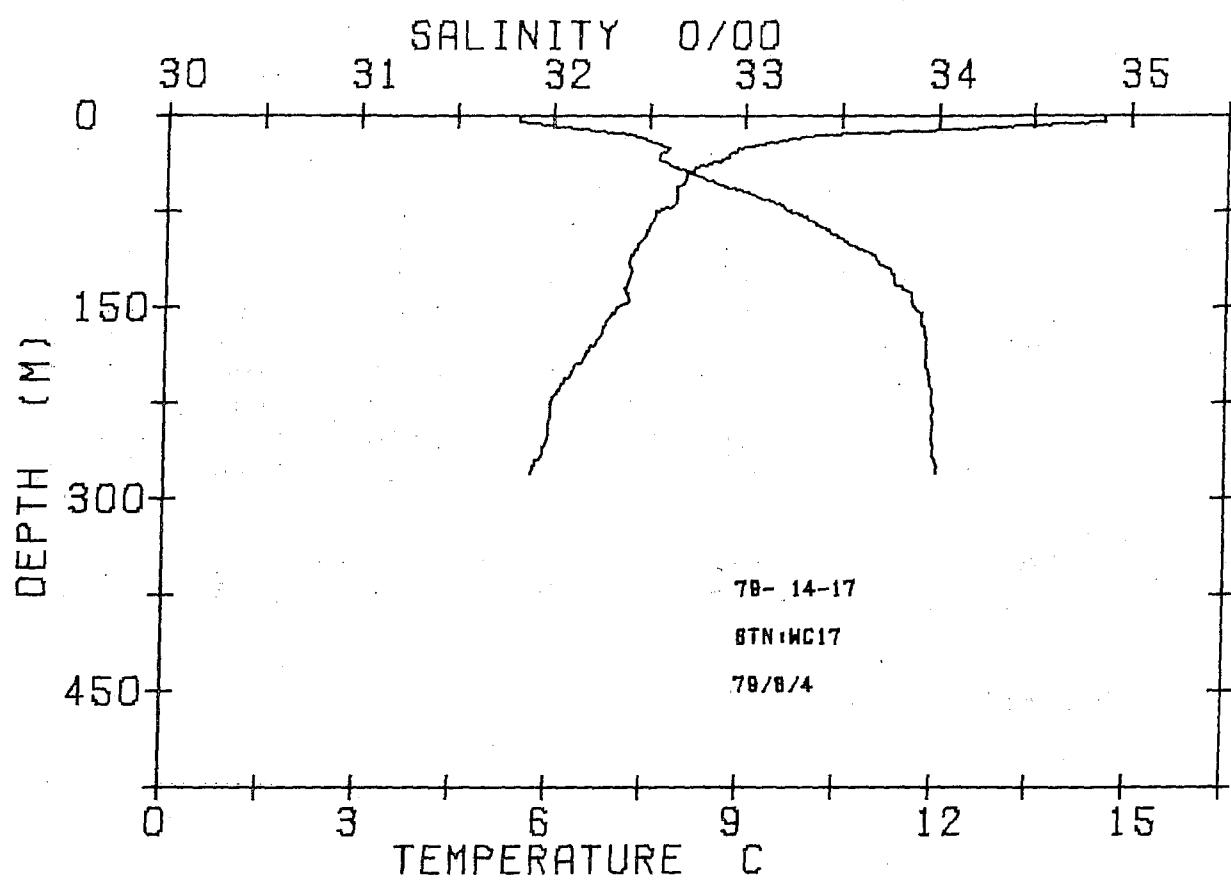
CRUISE : C.O.D.E. 79-14.
 STATION: WC05 CONS #016
 LAT N 48 16.5 LONG W 125 35.0
 DATE 79/08/04 TIME (PST) 1200

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
0	12.51	31.59	23.88	403.8	.00	.00	1494.9
10	12.27	31.60	23.93	399.1	.40	.02	1494.3
20	10.09	32.21	24.79	317.5	.78	.08	1487.5
30	8.49	32.66	25.39	259.7	1.06	.15	1482.2
50	7.83	33.01	25.76	224.8	1.55	.34	1480.5
75	7.31	33.55	26.26	177.9	2.05	.65	1479.6
100	7.13	33.75	26.44	161.4	2.47	1.02	1479.6
125	6.80	33.90	26.60	146.3	2.85	1.45	1478.9
150	6.30	33.97	26.73	134.6	3.20	1.93	1477.4

DEEPEST MEASUREMENT :

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
155.1	6.21	33.97	26.74	133.7	3.27	2.03	1477.1

WIND MIXED LAYER DEPTH = 15.0 METRES



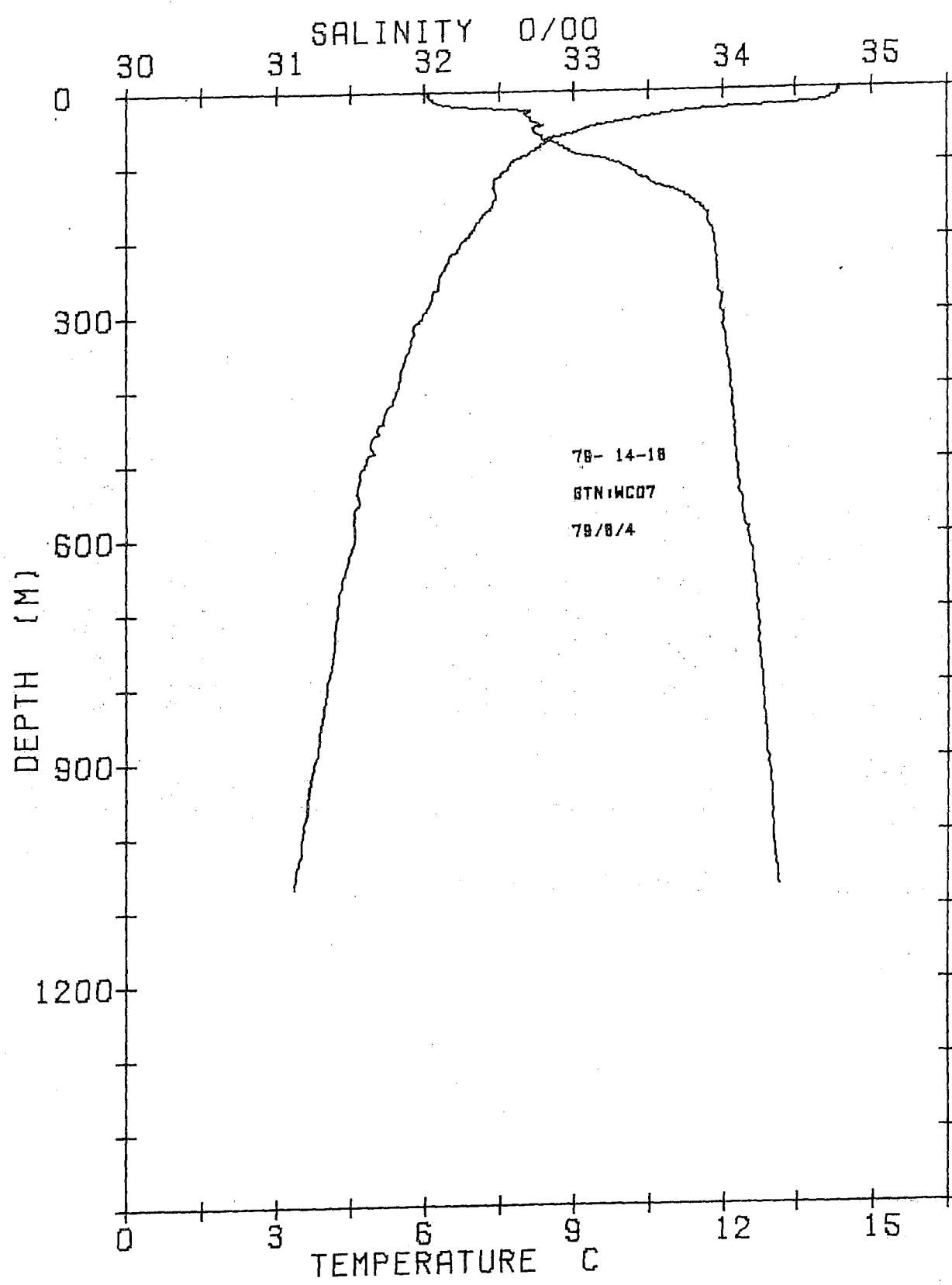
CRUISE : C.O.D.E. 79-14.
 STATION: WC06 CONS #017
 LAT N 48 12.0 LONG W 125 47.0
 DATE 79/08/04 TIME (PST) 1319

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT. EN	SOUND
0	14.57	31.82	23.64	426.3	.00	.00	1502.1
10	12.31	32.14	24.34	359.9	.41	.02	1495.1
20	9.55	32.50	25.10	287.4	.72	.07	1485.9
30	8.77	32.56	25.27	271.7	1.00	.13	1483.2
50	8.06	32.79	25.55	244.7	1.52	.34	1481.1
75	7.64	33.23	25.96	206.3	2.08	.69	1480.4
100	7.35	33.54	26.24	180.0	2.56	1.11	1480.1
125	7.24	33.78	26.45	160.9	2.98	1.58	1480.4
150	7.03	33.89	26.57	149.9	3.37	2.12	1480.2
175	6.72	33.95	26.65	142.2	3.73	2.71	1479.4
200	6.32	33.96	26.71	136.4	4.08	3.36	1478.2
225	6.01	33.98	26.77	131.3	4.42	4.07	1477.4
250	5.96	33.98	26.77	131.2	4.74	4.85	1477.7

DEEPEST MEASUREMENT :

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT. EN	SOUND
280.0	5.71	34.01	26.83	126.0	5.13	5.87	1477.2

WIND MIXED LAYER DEPTH = 5.0 METRES



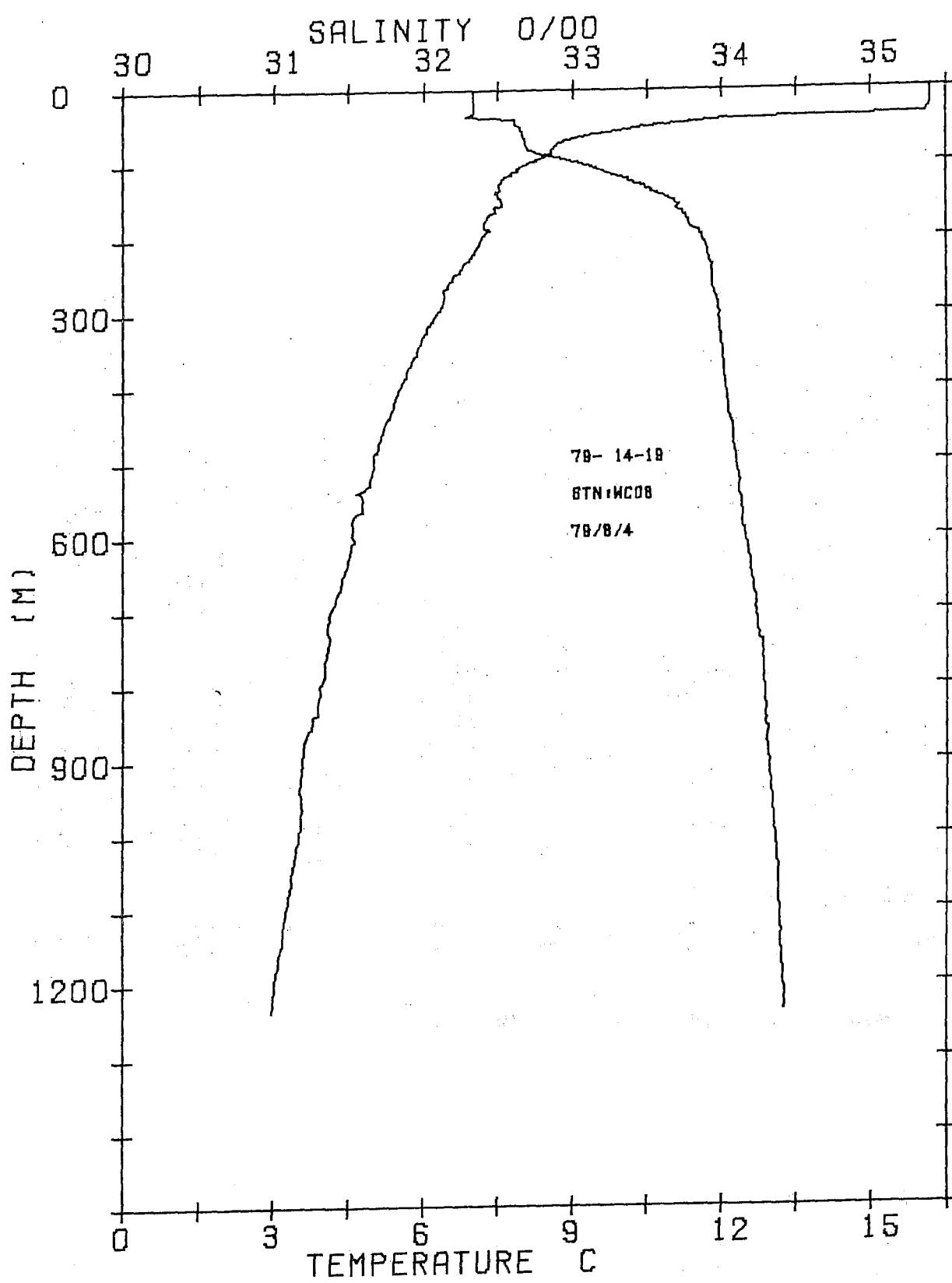
CRUISE : C.O.D.E. 79-14.
 STATION: WC07 CONS #018
 LAT N 48 07.0 LONG W 125 56.5
 DATE 79/08/04 TIME (PST) 1444

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
0	14.38	32.03	23.84	407.2	.00	.00	1501.7
10	14.32	32.05	23.87	404.9	.41	.02	1501.7
20	13.95	32.21	24.07	385.6	.80	.08	1500.9
30	11.09	32.67	24.97	300.2	1.13	.16	1491.8
50	9.30	32.72	25.31	268.1	1.69	.38	1485.7
75	8.30	32.93	25.63	237.9	2.32	.78	1482.6
100	7.70	33.32	26.02	201.1	2.87	1.26	1481.2
125	7.37	33.53	26.23	181.4	3.35	1.79	1480.6
150	7.36	33.80	26.45	161.3	3.78	2.37	1481.3
175	7.08	33.89	26.56	151.1	4.16	3.00	1480.8
200	6.81	33.94	26.63	144.4	4.53	3.69	1480.2
225	6.49	33.96	26.69	139.2	4.89	4.45	1479.3
250	6.31	33.96	26.72	136.9	5.23	5.27	1479.0
300	5.98	34.00	26.79	130.7	5.90	7.11	1478.6
400	5.46	34.05	26.89	121.5	7.15	11.49	1478.1
500	4.82	34.09	27.00	111.7	8.32	16.70	1477.2
600	4.60	34.17	27.09	104.0	9.39	22.63	1478.0
800	4.03	34.27	27.23	92.3	11.33	36.15	1479.1
1000	3.54	34.35	27.34	82.1	13.07	51.75	1480.4

DEEPEST MEASUREMENT :

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
1070.0	3.35	34.39	27.39	77.9	13.63	57.54	1480.8

WIND MIXED LAYER DEPTH = 20.0 METRES



CRUISE : C.O.D.E. 79-14.
 STATION: WC08 CONS #019
 LAT N 48 02.5 LONG W 126 06.5
 DATE 79/08/04 TIME (PST) 1714

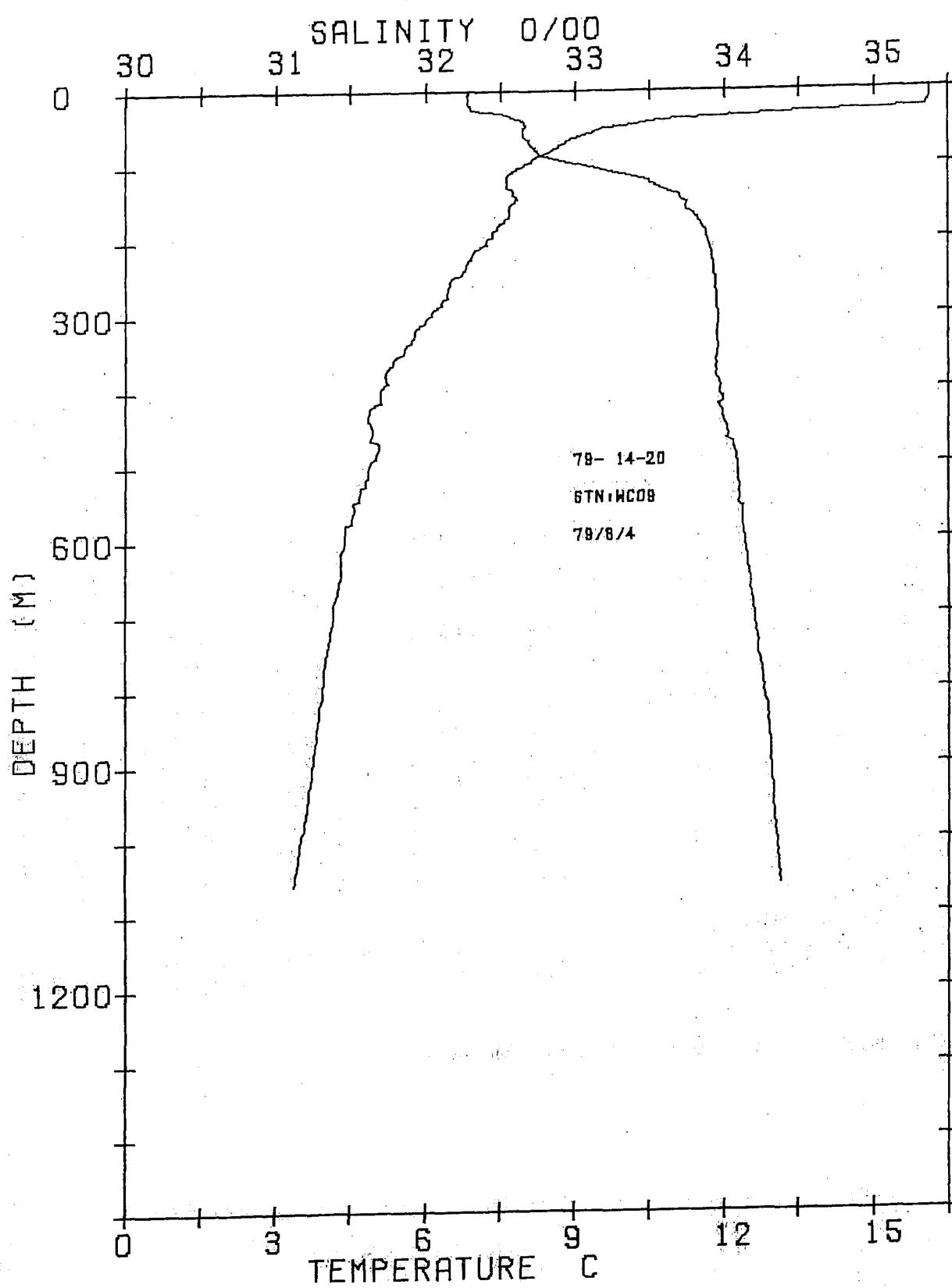
DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
0	16.20	32.33	23.68	422.6	.00	.00	1507.9
10	16.21	32.34	23.68	422.8	.42	.02	1508.1
20	16.21	32.34	23.68	423.1	.85	.08	1508.3
30	16.18	32.34	23.69	422.5	1.27	.19	1508.3
50	10.46	32.64	25.06	292.0	1.97	.47	1489.9
75	8.68	32.69	25.38	261.6	2.66	.89	1483.7
100	8.11	33.06	25.76	226.3	3.28	1.43	1482.5
125	7.57	33.40	26.10	193.7	3.80	2.02	1481.2
150	7.55	33.68	26.33	172.8	4.25	2.64	1481.9
175	7.25	33.78	26.44	162.1	4.67	3.32	1481.3
200	7.18	33.87	26.53	154.1	5.07	4.06	1481.5
225	6.95	33.92	26.60	147.9	5.45	4.87	1481.1
250	6.60	33.94	26.66	142.0	5.81	5.73	1480.2
300	6.26	33.99	26.75	134.8	6.50	7.64	1479.7
400	5.51	34.03	26.87	123.4	7.80	12.15	1478.4
500	5.00	34.10	26.99	113.2	8.98	17.46	1478.0
600	4.59	34.17	27.09	104.4	10.06	23.43	1478.0
800	3.94	34.30	27.26	88.8	11.98	36.80	1478.7
1000	3.54	34.37	27.36	80.7	13.67	51.98	1480.5
1200	3.03	34.42	27.45	72.4	15.20	68.78	1481.7

DEEPEST MEASUREMENT :

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
1235.0	2.98	34.42	27.45	71.9	15.45	71.84	1482.0

WIND MIXED LAYER DEPTH = 35.0 METRES

120



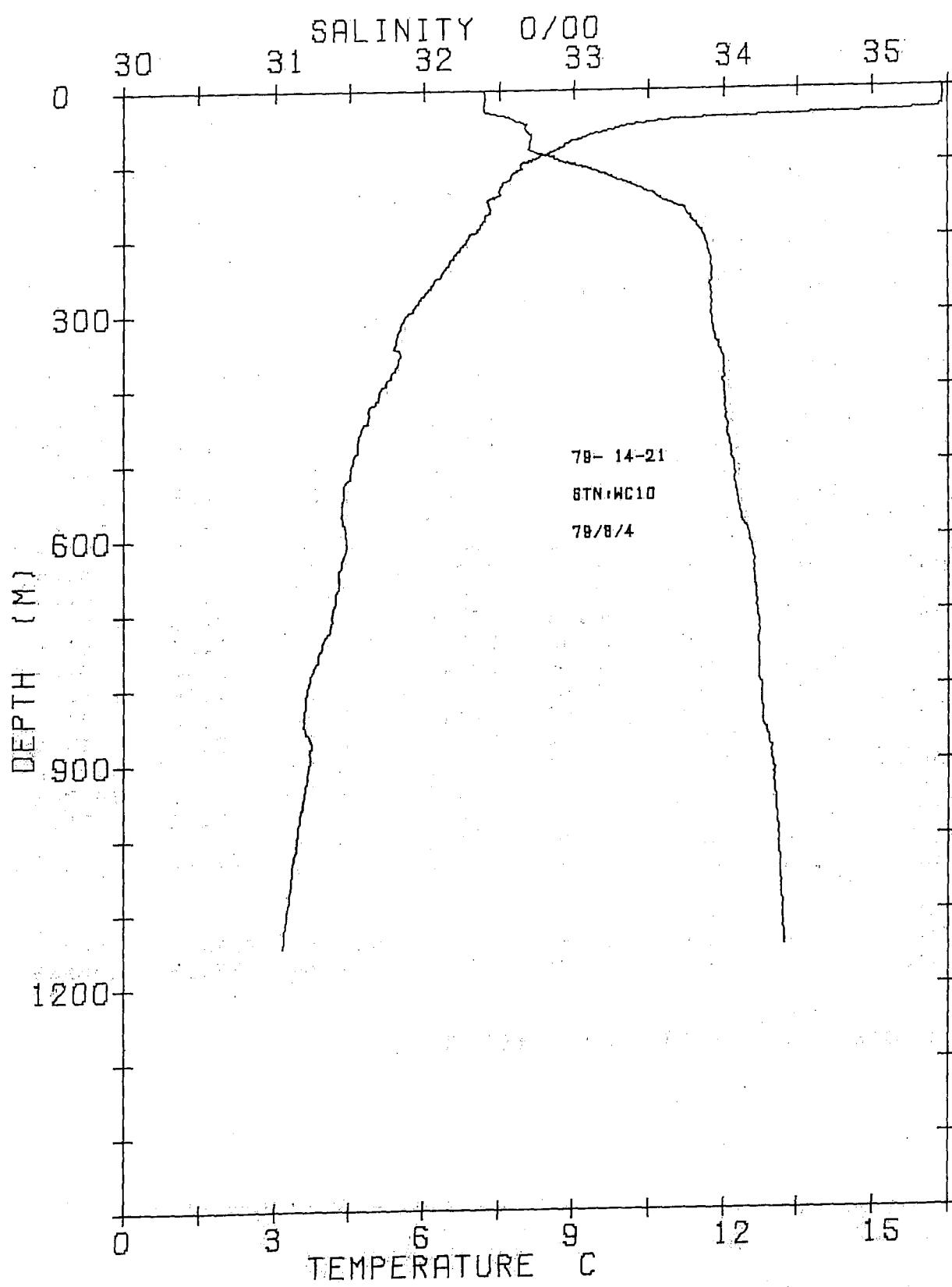
CRUISE : C.O.D.E. 79-14.
 STATION: WC09 CONS #020
 LAT N 48 02.5 LONG W 126 20.0
 DATE 79/08/04 TIME (PST) 1936

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
0	16.12	32.28	23.65	425.2	.00	.00	1507.6
10	16.13	32.28	23.65	425.7	.43	.02	1507.8
20	16.10	32.29	23.67	424.2	.85	.09	1507.9
30	13.77	32.51	24.33	360.8	1.26	.19	1500.8
50	9.61	32.65	25.21	277.9	1.87	.43	1486.7
75	8.64	32.72	25.41	258.6	2.54	.85	1483.6
100	7.98	33.07	25.79	223.4	3.15	1.38	1481.9
125	7.63	33.53	26.20	184.6	3.65	1.94	1481.6
150	7.77	33.75	26.35	171.0	4.10	2.55	1482.9
175	7.56	33.84	26.46	161.1	4.51	3.23	1482.6
200	7.24	33.89	26.54	153.7	4.91	3.96	1481.8
225	6.91	33.92	26.60	147.5	5.28	4.76	1480.9
250	6.56	33.94	26.67	141.8	5.64	5.62	1480.0
300	6.08	33.96	26.74	134.8	6.34	7.53	1478.9
400	5.11	33.97	26.87	123.5	7.63	12.03	1476.6
500	4.90	34.09	26.99	112.7	8.81	17.35	1477.6
600	4.40	34.14	27.09	104.1	9.90	23.33	1477.2
800	3.96	34.27	27.24	91.0	11.85	36.93	1478.8
1000	3.54	34.37	27.35	80.9	13.56	52.32	1480.5

DEEPEST MEASUREMENT :

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
1060.2	3.40	34.39	27.39	78.0	14.04	57.25	1480.9

WIND MIXED LAYER DEPTH = 24.0 METRES



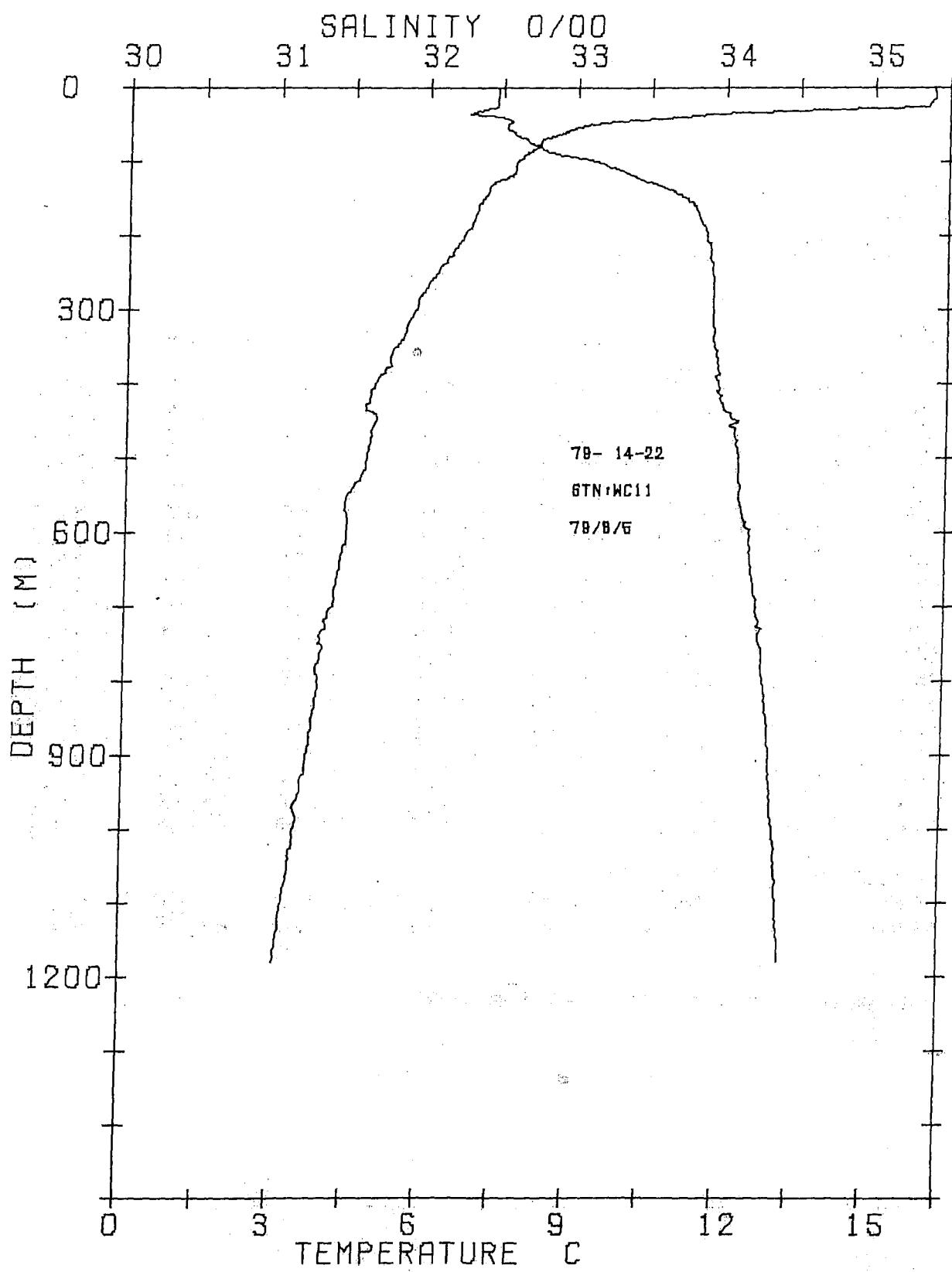
CRUISE : C.O.D.E. 79-14.
 STATION: WC10 CONS #021
 LAT N 48 06.5 LONG W 126 29.5
 DATE 79/08/04 TIME (PST) 2151

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
0	16.37	32.39	23.68	422.3	.00	.00	1508.5
10	16.38	32.40	23.69	422.1	.42	.02	1508.7
20	16.38	32.39	23.68	422.8	.84	.08	1508.9
30	16.32	32.41	23.71	420.9	1.27	.19	1508.8
50	9.99	32.67	25.16	282.2	1.91	.44	1488.2
75	8.80	32.70	25.37	262.5	2.59	.86	1484.2
100	7.92	33.00	25.74	227.8	3.21	1.41	1481.6
125	7.56	33.38	26.09	195.2	3.74	2.00	1481.2
150	7.23	33.61	26.32	173.8	4.20	2.63	1480.6
175	7.19	33.79	26.47	160.0	4.61	3.30	1481.0
200	6.88	33.87	26.57	150.4	5.00	4.03	1480.3
225	6.58	33.91	26.64	144.1	5.37	4.81	1479.6
250	6.33	33.91	26.67	141.0	5.72	5.66	1479.0
300	5.68	33.91	26.76	133.1	6.41	7.53	1477.2
400	5.14	34.00	26.89	121.1	7.68	11.96	1476.8
500	4.56	34.07	27.01	110.7	8.84	17.18	1476.1
600	4.45	34.17	27.11	102.3	9.90	23.03	1477.4
800	3.67	34.26	27.25	89.0	11.82	36.39	1477.6
1000	3.46	34.38	27.37	79.3	13.50	51.52	1480.1

DEEPEST MEASUREMENT :

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
1145.0	3.16	34.42	27.43	73.4	14.61	63.37	1481.3

WIND MIXED LAYER DEPTH = 29.7 METRES



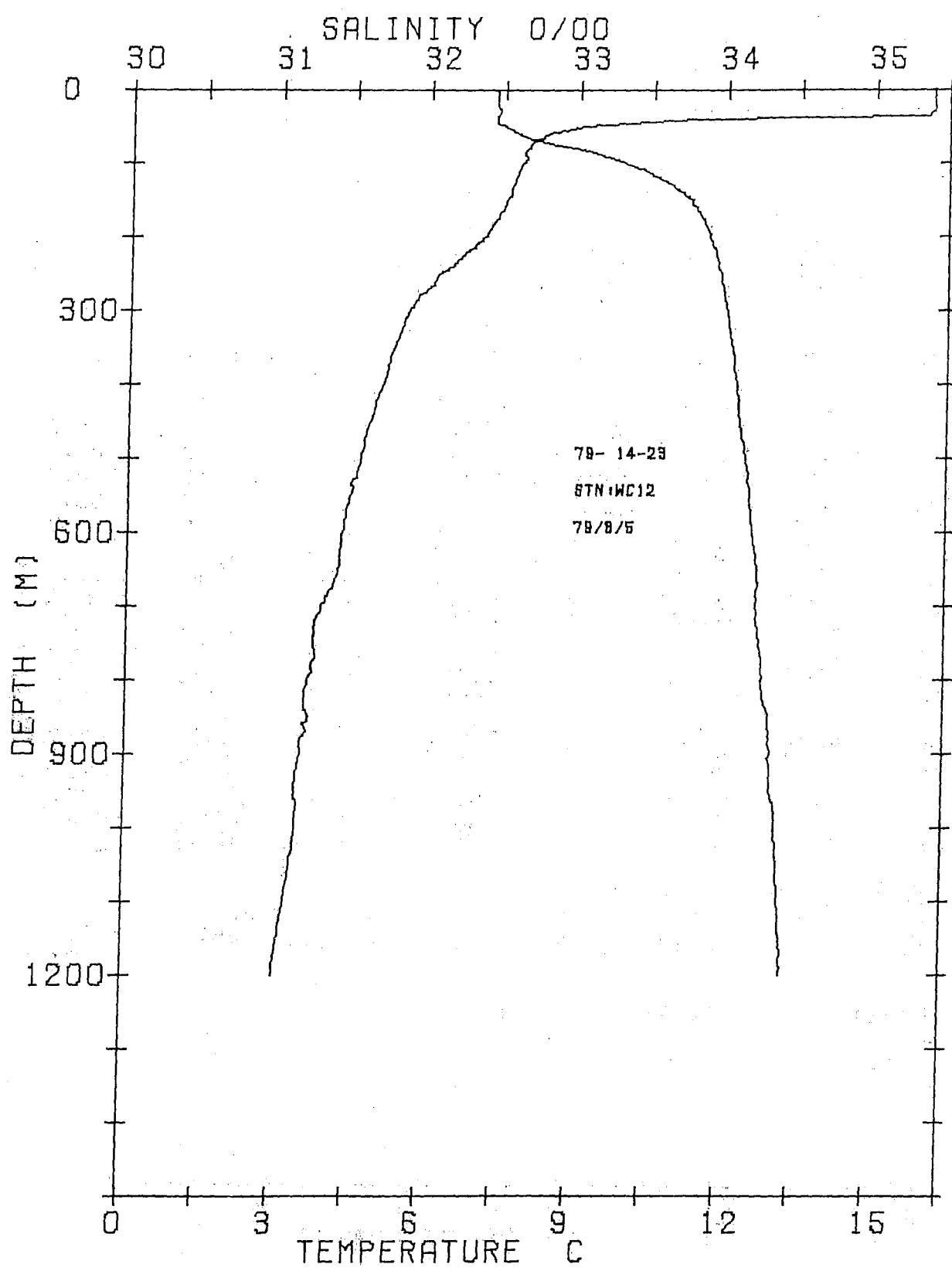
CRUISE : C.O.D.E. 79-14.
 STATION: WC11 CONS #022
 LAT N 48 11.0 LONG W 126 39.5
 DATE 79/08/05 TIME (PST) 0005

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
0	16.18	32.46	23.78	412.7	.00	.00	1508.0
10	16.19	32.46	23.78	413.4	.41	.02	1508.2
20	16.13	32.46	23.79	412.2	.83	.08	1508.2
30	14.17	32.36	24.14	379.7	1.23	.18	1502.0
50	9.29	32.53	25.17	281.8	1.87	.43	1485.4
75	8.26	32.69	25.45	255.1	2.54	.85	1482.1
100	7.80	33.13	25.86	216.4	3.14	1.37	1481.3
125	7.42	33.45	26.16	188.0	3.64	1.94	1480.7
150	7.14	33.74	26.43	162.8	4.08	2.54	1480.4
175	6.97	33.83	26.53	154.2	4.47	3.17	1480.3
200	6.75	33.88	26.59	148.1	4.85	3.88	1479.9
225	6.50	33.91	26.65	142.9	5.21	4.65	1479.3
250	6.21	33.92	26.70	138.5	5.56	5.49	1478.6
300	5.78	33.93	26.76	133.0	6.24	7.35	1477.7
400	4.99	33.97	26.89	121.6	7.52	11.81	1476.1
500	4.82	34.11	27.01	110.8	8.67	16.99	1477.2
600	4.42	34.18	27.11	101.9	9.74	22.85	1477.3
800	3.88	34.29	27.26	89.0	11.64	36.10	1478.5
1000	3.45	34.38	27.37	78.7	13.31	51.18	1480.1

DEEPEST MEASUREMENT :

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
1180.1	3.07	34.43	27.45	71.8	14.67	65.95	1481.5

WIND MIXED LAYER DEPTH = 25.0 METRES



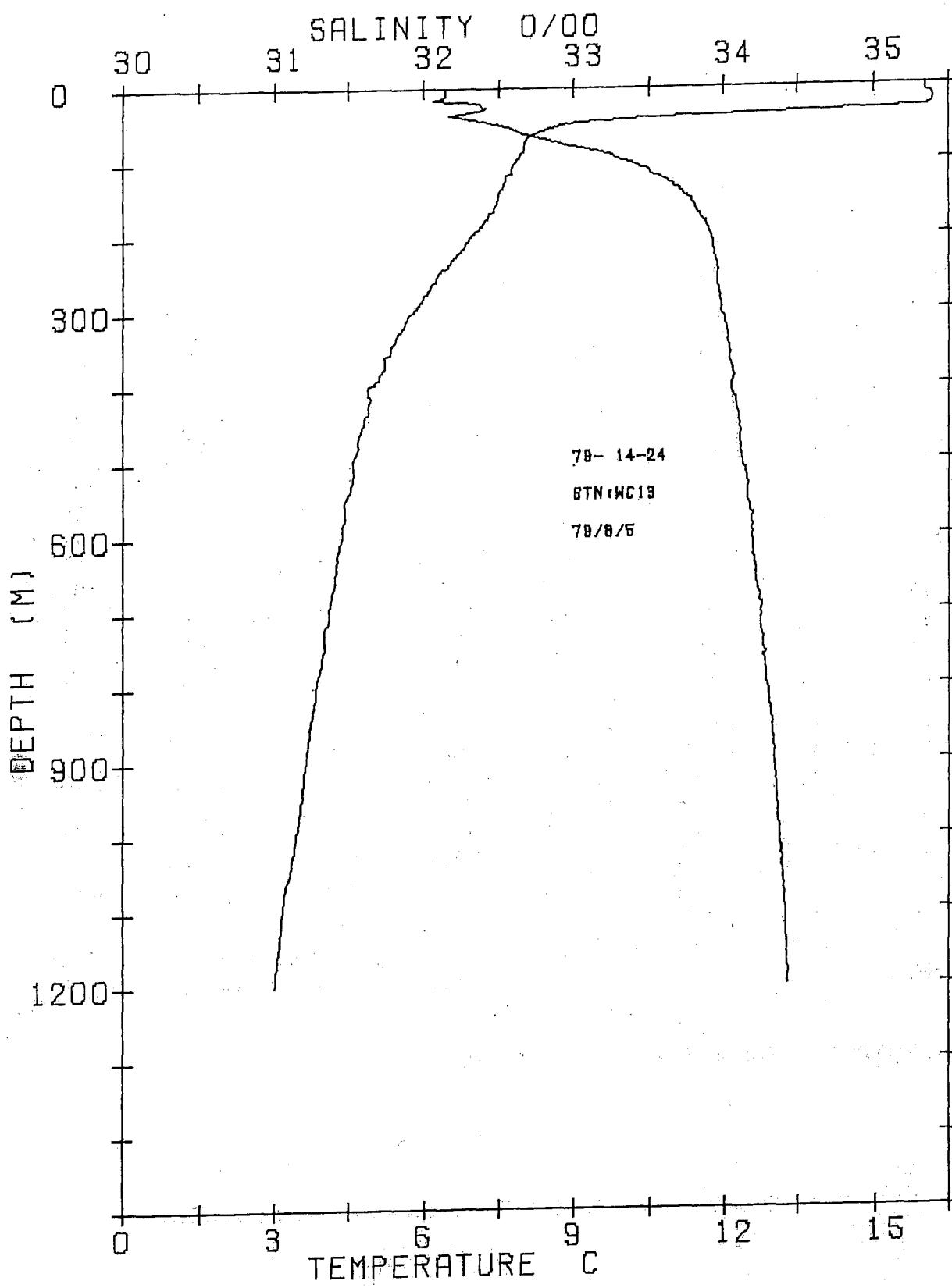
CRUISE : C.O.D.E. 79-14.
 STATION: WC12 CONS #023
 LAT N 48 16.0 LONG W 126 49.5
 DATE 79/08/05 TIME (PST) 0205

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
0	16.17	32.44	23.76	414.4	.00	.00	1507.9
10	16.17	32.44	23.77	414.5	.41	.02	1508.1
20	16.18	32.44	23.76	415.1	.83	.08	1508.3
30	16.18	32.46	23.78	414.1	1.24	.19	1508.5
50	9.11	32.50	25.17	281.6	1.94	.46	1484.7
75	8.02	32.84	25.60	240.8	2.59	.86	1481.4
100	7.90	33.30	25.97	205.6	3.14	1.34	1481.9
125	7.72	33.59	26.23	181.7	3.62	1.88	1482.0
150	7.57	33.76	26.38	167.5	4.05	2.48	1482.1
175	7.37	33.84	26.48	159.1	4.46	3.14	1481.8
200	7.13	33.88	26.55	152.7	4.85	3.87	1481.3
225	6.69	33.93	26.64	143.6	5.22	4.66	1480.1
250	6.24	33.97	26.73	135.5	5.57	5.49	1478.8
300	5.61	34.01	26.84	125.2	6.22	7.28	1477.1
400	5.10	34.08	26.96	115.1	7.42	11.46	1476.7
500	4.69	34.14	27.05	106.7	8.53	16.44	1476.7
600	4.32	34.19	27.13	99.9	9.56	22.09	1476.9
800	3.66	34.27	27.27	87.6	11.42	35.11	1477.5
1000	3.45	34.38	27.37	79.0	13.08	49.98	1480.1
1200	3.02	34.43	27.46	71.3	14.58	66.43	1481.6

DEEPEST MEASUREMENT :

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
1200.1	3.02	34.43	27.46	71.3	14.58	66.44	1481.6

WIND MIXED LAYER DEPTH = 35.0 METRES



CRUISE : C.O.D.E. 79-14.
 STATION: WC13 CONS #024
 LAT N 48 20.5 LONG W 127 00.0
 DATE 79/08/05 TIME (PST) 0427

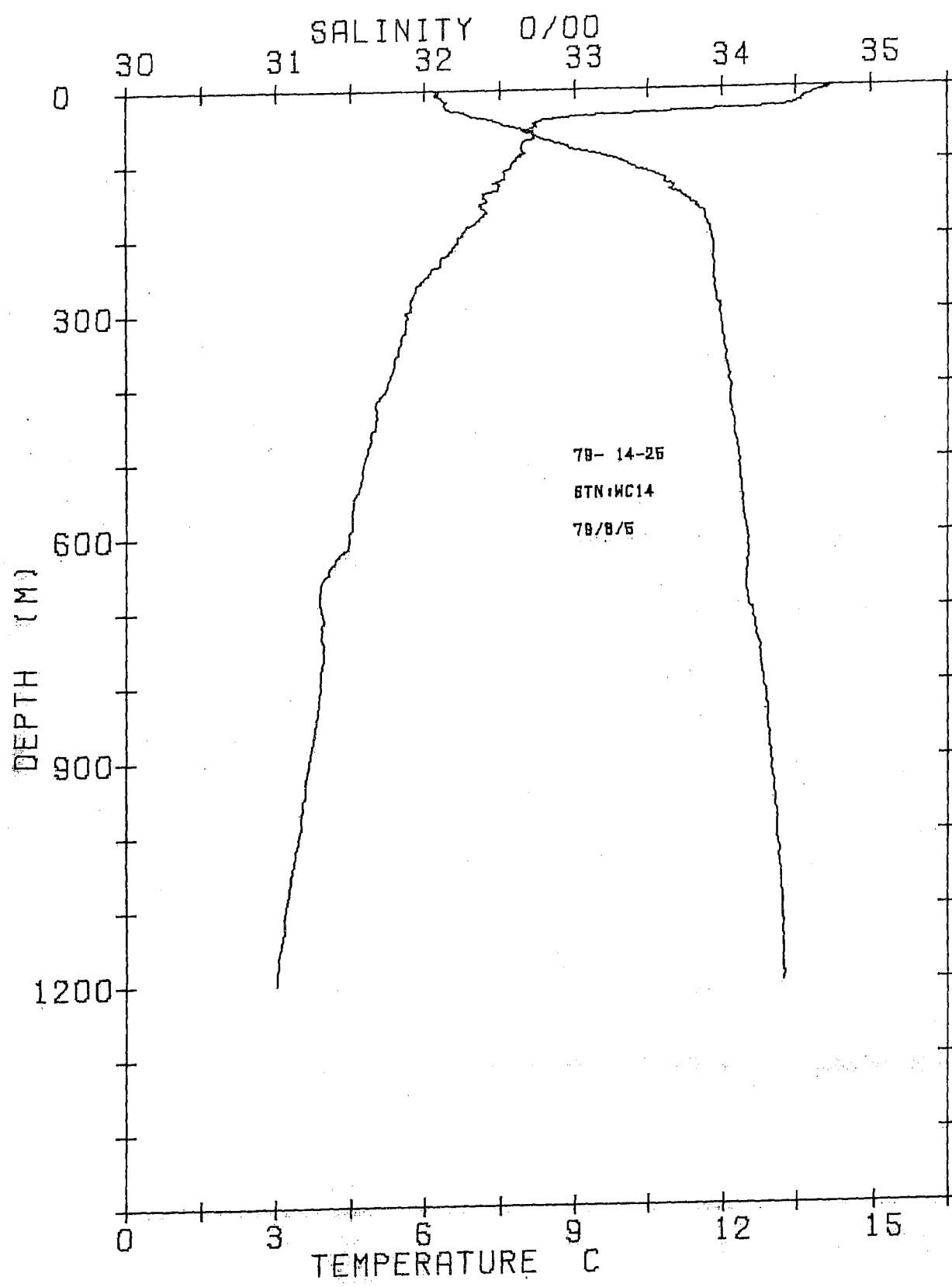
DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
0	16.03	32.14	23.57	433.2	.00	.00	1507.1
10	16.04	32.14	23.57	433.3	.43	.02	1507.3
20	16.20	32.37	23.71	420.6	.87	.09	1508.3
30	16.07	32.36	23.72	419.0	1.29	.19	1508.0
50	8.75	32.52	25.24	274.4	1.95	.45	1483.4
75	8.01	32.94	25.68	233.1	2.58	.84	1481.5
100	7.82	33.38	26.06	197.9	3.12	1.31	1481.7
125	7.63	33.63	26.28	177.2	3.58	1.84	1481.7
150	7.46	33.78	26.42	163.8	4.01	2.42	1481.7
175	7.26	33.86	26.51	156.3	4.41	3.07	1481.4
200	6.94	33.92	26.60	147.6	4.79	3.78	1480.6
225	6.64	33.94	26.66	142.5	5.15	4.55	1479.9
250	6.28	33.96	26.72	136.5	5.50	5.37	1478.9
300	5.78	33.98	26.80	129.1	6.16	7.20	1477.7
400	4.89	34.05	26.96	114.8	7.37	11.42	1475.8
500	4.58	34.13	27.05	106.5	8.48	16.38	1476.3
600	4.37	34.19	27.13	100.0	9.50	22.01	1477.1
800	3.85	34.30	27.27	87.8	11.38	35.12	1478.4
1000	3.46	34.38	27.37	79.1	13.04	50.05	1480.1
1200	3.01	34.44	27.46	70.9	14.53	66.38	1481.6

DEEPEST MEASUREMENT :

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
1200.0	3.01	34.44	27.46	70.9	14.53	66.38	1481.6

WIND MIXED LAYER DEPTH = 28.9 METRES

130



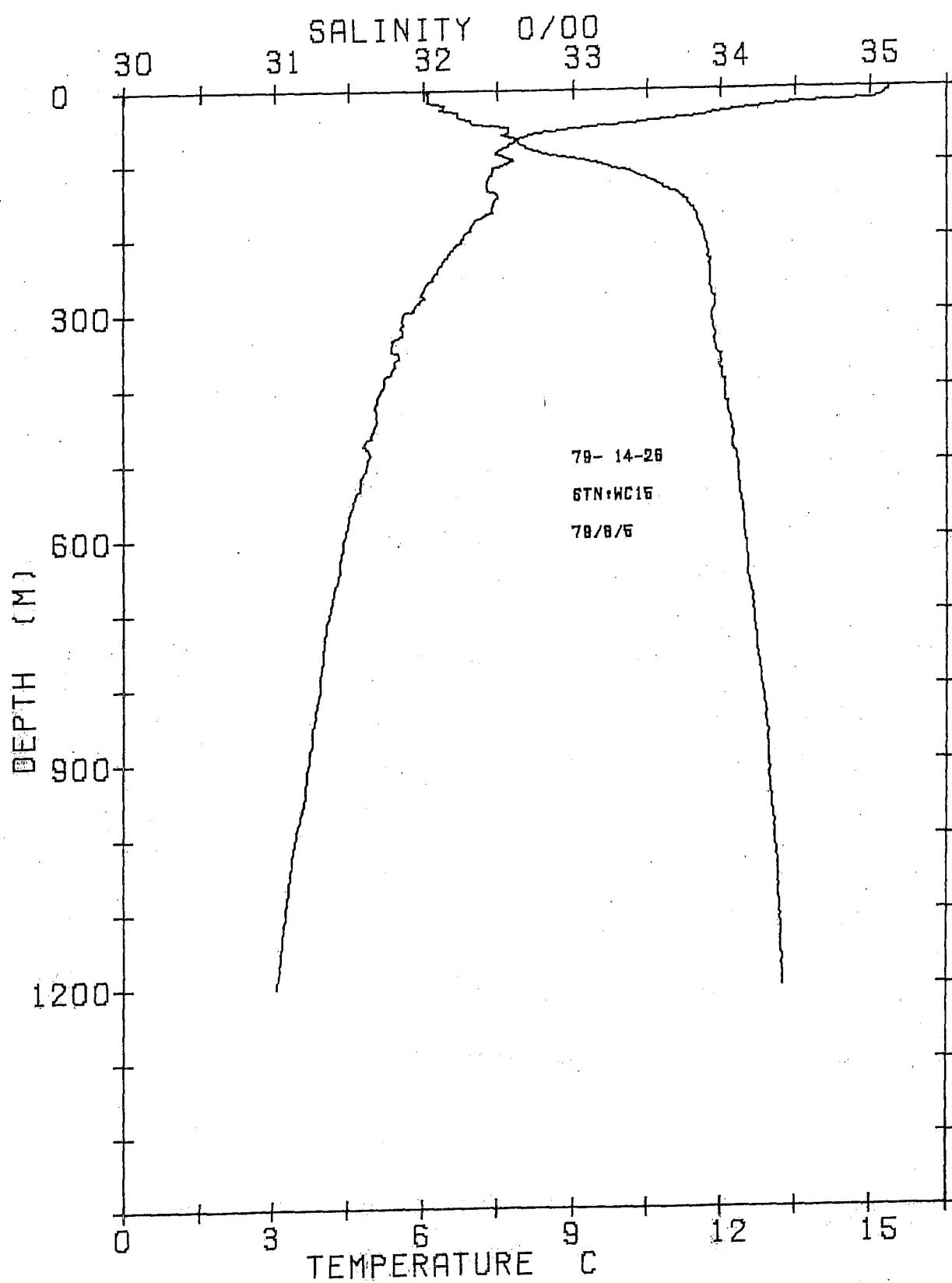
CRUISE : C.O.D.E. 79-14.
 STATION: WC14 CONS #025
 LAT N 48 25.0 LONG W 127 09.5
 DATE 79/08/05 TIME (PST) 0633

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
0	14.19	32.08	23.92	399.8	.00	.00	1501.2
10	13.85	32.11	24.01	391.2	.40	.02	1500.3
20	13.60	32.13	24.08	384.8	.78	.08	1499.6
30	11.42	32.26	24.59	336.1	1.15	.17	1492.5
50	8.21	32.58	25.37	262.6	1.72	.39	1481.4
75	7.91	32.95	25.70	231.0	2.34	.78	1481.1
100	7.75	33.36	26.05	198.8	2.88	1.25	1481.4
125	7.39	33.61	26.30	175.3	3.34	1.77	1480.8
150	7.24	33.78	26.45	161.4	3.76	2.35	1480.8
175	7.08	33.89	26.56	151.1	4.15	2.97	1480.8
200	6.67	33.93	26.65	143.2	4.52	3.66	1479.6
225	6.34	33.93	26.69	139.1	4.87	4.41	1478.7
250	6.05	33.94	26.73	135.1	5.21	5.23	1477.9
300	5.62	33.98	26.82	127.3	5.87	7.02	1477.1
400	5.24	34.06	26.92	118.4	7.10	11.34	1477.3
500	4.78	34.12	27.02	109.6	8.24	16.47	1477.1
600	4.48	34.17	27.10	103.1	9.31	22.32	1477.5
800	3.90	34.28	27.25	89.6	11.22	35.67	1478.5
1000	3.47	34.37	27.36	79.7	12.91	50.81	1480.2
1200	3.02	34.42	27.45	72.4	14.41	67.29	1481.6

DEEPEST MEASUREMENT :

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
1200.1	3.02	34.42	27.45	72.4	14.41	67.30	1481.6

WIND MIXED LAYER DEPTH = 23.9 METRES



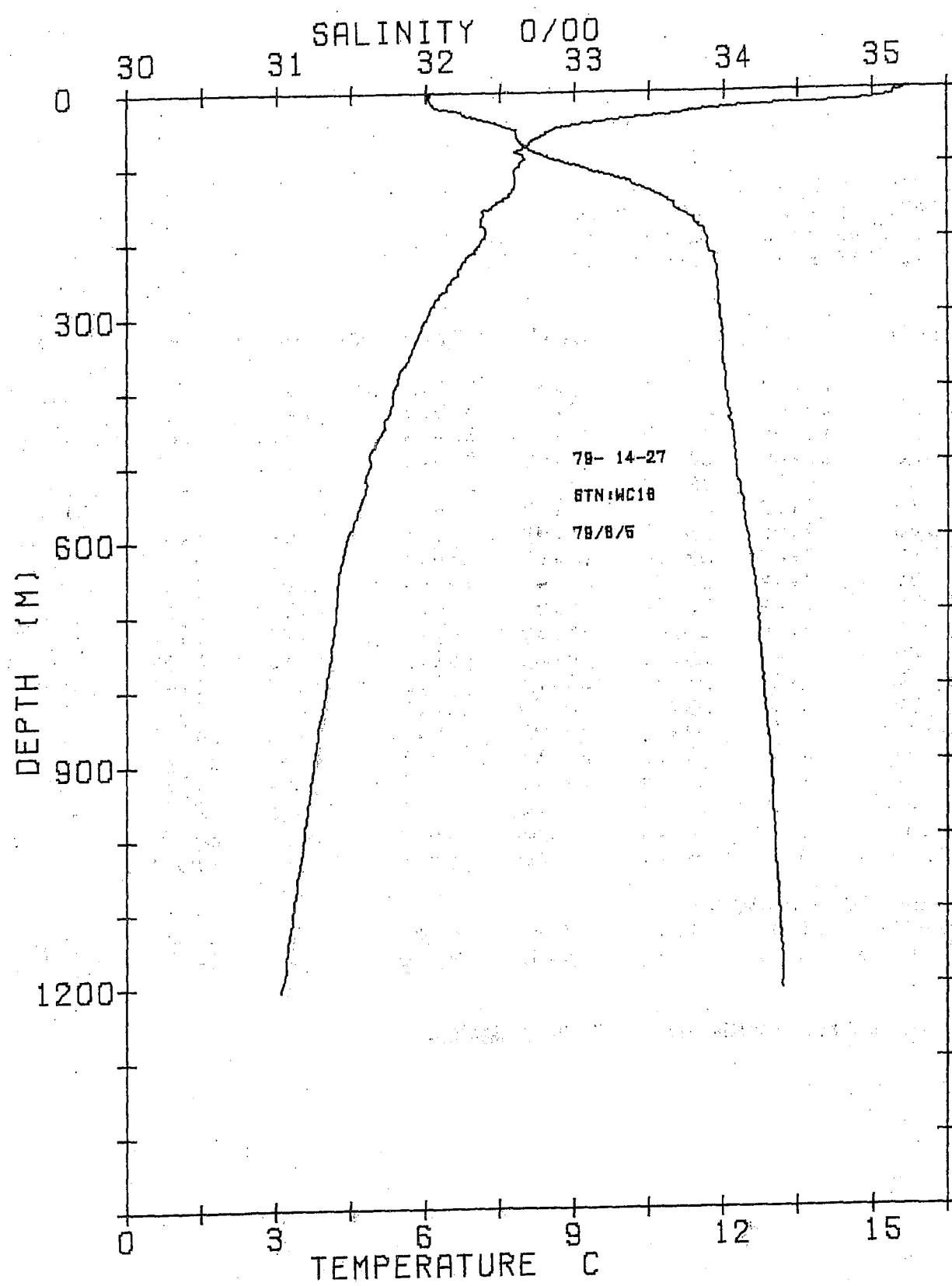
CRUISE : C.O.D.E. 79-14.
 STATION: WC15 CONS #026
 LAT N 48 30.0 LONG W 127 20.0
 DATE 79/08/05 TIME (PST) 0857

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT. EN	SOUND
0	15.38	32.03	23.62	427.8	.00	.00	1505.0
10	15.29	32.03	23.65	426.0	.43	.02	1504.8
20	13.60	32.13	24.08	384.8	.84	.08	1499.6
30	12.09	32.22	24.44	350.3	1.21	.17	1494.8
50	9.31	32.57	25.19	279.5	1.85	.43	1485.5
75	7.72	32.68	25.52	248.3	2.51	.84	1480.0
100	7.68	33.18	25.92	211.0	3.09	1.34	1481.0
125	7.29	33.56	26.27	178.3	3.57	1.88	1480.3
150	7.44	33.77	26.42	164.4	3.99	2.46	1481.6
175	7.04	33.84	26.53	154.3	4.39	3.11	1480.5
200	6.80	33.89	26.60	147.5	4.77	3.82	1480.0
225	6.47	33.91	26.66	142.1	5.13	4.59	1479.2
250	6.20	33.93	26.71	137.5	5.48	5.42	1478.5
300	5.60	33.94	26.79	130.2	6.15	7.26	1476.9
400	5.20	34.03	26.91	119.9	7.41	11.65	1477.1
500	4.88	34.12	27.01	110.6	8.56	16.82	1477.5
600	4.44	34.16	27.10	102.9	9.62	22.67	1477.4
800	3.95	34.29	27.25	90.1	11.55	36.08	1478.8
1000	3.47	34.37	27.36	79.8	13.24	51.33	1480.2
1200	3.10	34.42	27.44	73.2	14.77	68.05	1481.9

DEEPEST MEASUREMENT :

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT. EN	SOUND
1200.0	3.10	34.42	27.44	73.2	14.77	68.06	1481.9

WIND MIXED LAYER DEPTH = 15.0 METRES



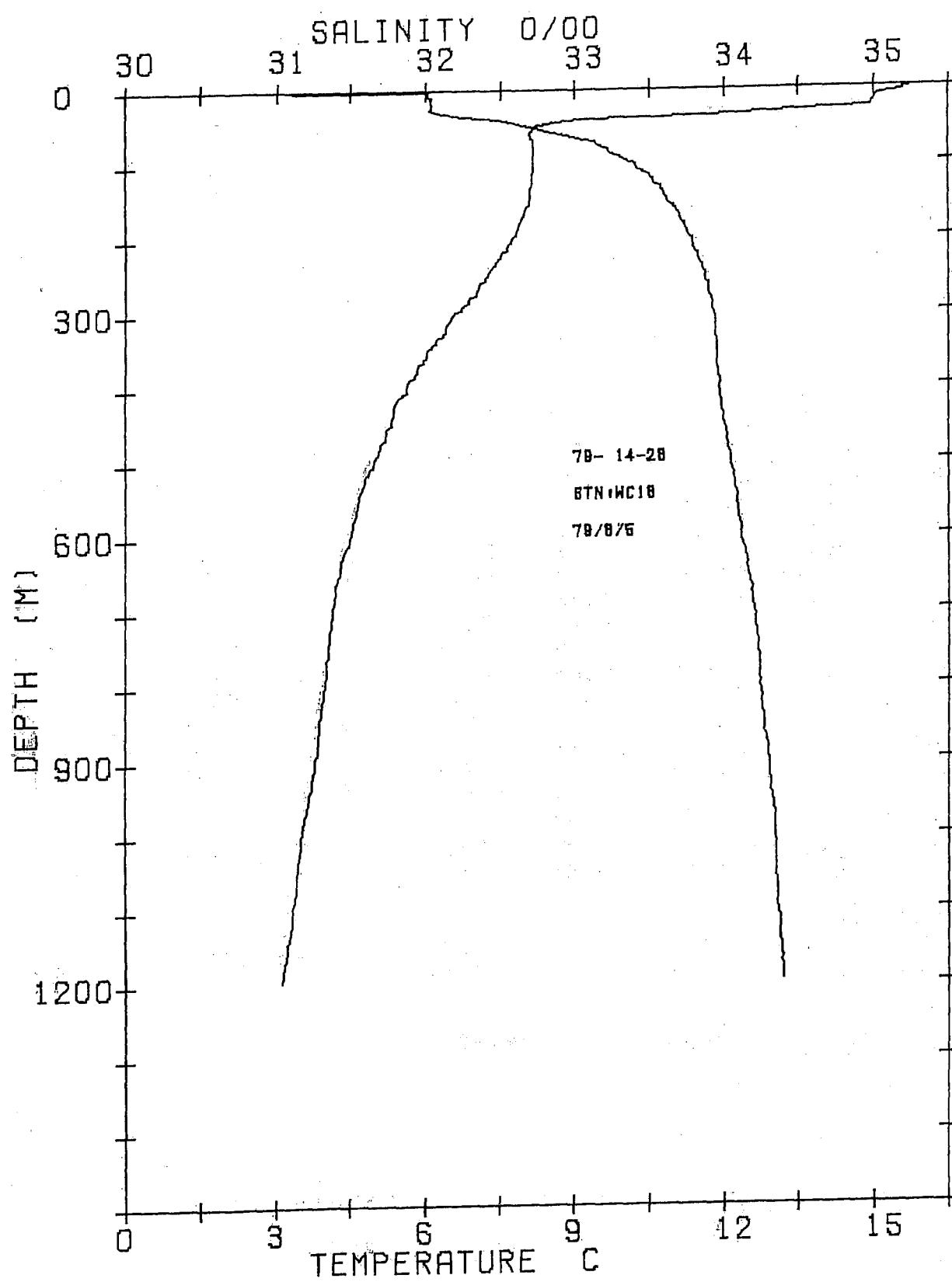
CRUISE : C.O.D.E. 79-14.
 STATION: WC16 CONS #027
 LAT N 48 35.5 LONG W 127 30.0
 DATE 79/08/05 TIME (PST) 1126

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
0	15.72	32.03	23.55	434.6	.00	.00	1506.0
10	15.38	32.02	23.62	428.8	.43	.02	1505.1
20	12.48	32.06	24.24	369.6	.84	.08	1495.8
30	11.13	32.25	24.64	331.9	1.18	.17	1491.4
50	8.60	32.59	25.32	266.9	1.77	.40	1482.9
75	7.94	32.69	25.50	250.4	2.41	.80	1480.9
100	7.85	33.03	25.77	224.7	3.01	1.33	1481.4
125	7.81	33.40	26.07	196.8	3.53	1.91	1482.1
150	7.42	33.66	26.33	172.2	4.00	2.54	1481.4
175	7.10	33.80	26.49	158.1	4.41	3.21	1480.7
200	7.11	33.89	26.55	152.1	4.79	3.94	1481.3
225	6.78	33.93	26.63	145.1	5.17	4.73	1480.4
250	6.55	33.95	26.68	140.7	5.53	5.58	1480.0
300	6.03	33.97	26.76	133.2	6.21	7.46	1478.7
400	5.35	34.01	26.88	123.0	7.49	11.92	1477.7
500	4.89	34.09	26.99	113.1	8.67	17.22	1477.5
600	4.42	34.18	27.11	101.9	9.75	23.15	1477.3
800	4.00	34.28	27.24	91.0	11.66	36.52	1479.0
1000	3.56	34.36	27.34	81.9	13.38	51.96	1480.5
1200	3.12	34.40	27.42	74.6	14.94	69.10	1482.0

DEEPEST MEASUREMENT :

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
1205.2	3.09	34.41	27.43	74.0	14.98	69.56	1482.0

WIND MIXED LAYER DEPTH = 15.0 METRES



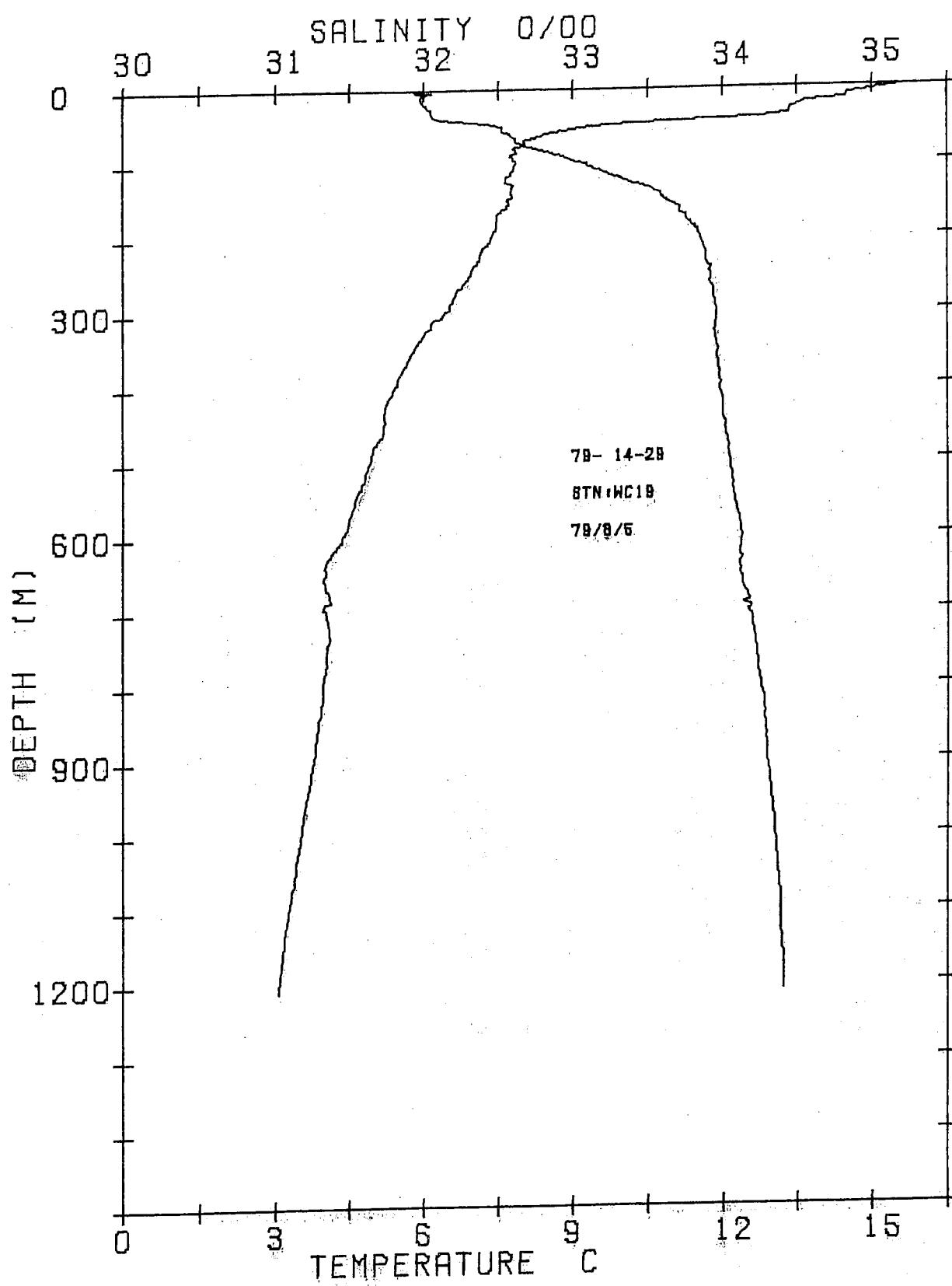
CRUISE : C.O.D.E. 79-14.
 STATION: WC18 CONS #028
 LAT N 48 42.0 LONG W 127 46.0
 DATE 79/08/05 TIME (PST) 1416

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
0	15.69	31.15	22.88	498.5	.00	.00	1504.9
10	15.13	32.03	23.69	422.2	.44	.02	1504.3
20	14.99	32.04	23.72	419.5	.86	.08	1504.1
30	13.56	32.07	24.04	389.0	1.27	.19	1499.6
50	8.20	32.70	25.46	253.3	1.88	.42	1481.5
75	8.16	33.17	25.84	218.1	2.46	.78	1482.4
100	8.17	33.41	26.02	201.1	2.98	1.24	1483.1
125	8.13	33.53	26.13	191.6	3.48	1.79	1483.6
150	8.08	33.62	26.21	184.5	3.94	2.44	1483.9
175	7.93	33.71	26.30	176.4	4.39	3.17	1483.8
200	7.75	33.78	26.37	169.4	4.83	3.98	1483.6
225	7.49	33.82	26.45	162.7	5.24	4.86	1483.1
250	7.24	33.87	26.52	155.9	5.64	5.80	1482.6
300	6.58	33.93	26.66	143.3	6.39	7.86	1480.9
400	5.61	33.96	26.81	129.8	7.75	12.62	1478.7
500	4.98	34.04	26.94	117.6	8.98	18.16	1477.8
600	4.50	34.11	27.05	107.7	10.10	24.30	1477.6
800	3.98	34.24	27.21	93.4	12.07	38.04	1478.8
1000	3.52	34.35	27.34	81.8	13.82	53.74	1480.4

DEEPEST MEASUREMENT :

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
1195.1	3.13	34.41	27.43	74.0	15.35	70.49	1482.0

WIND MIXED LAYER DEPTH = 25.4 METRES



CRUISE : C.O.O.E. 79-14.
 STATION: WC19 CONS #029
 LAT N 48 48.0 LONG W 127 37.5
 DATE 79/08/05 TIME (PST) 1702

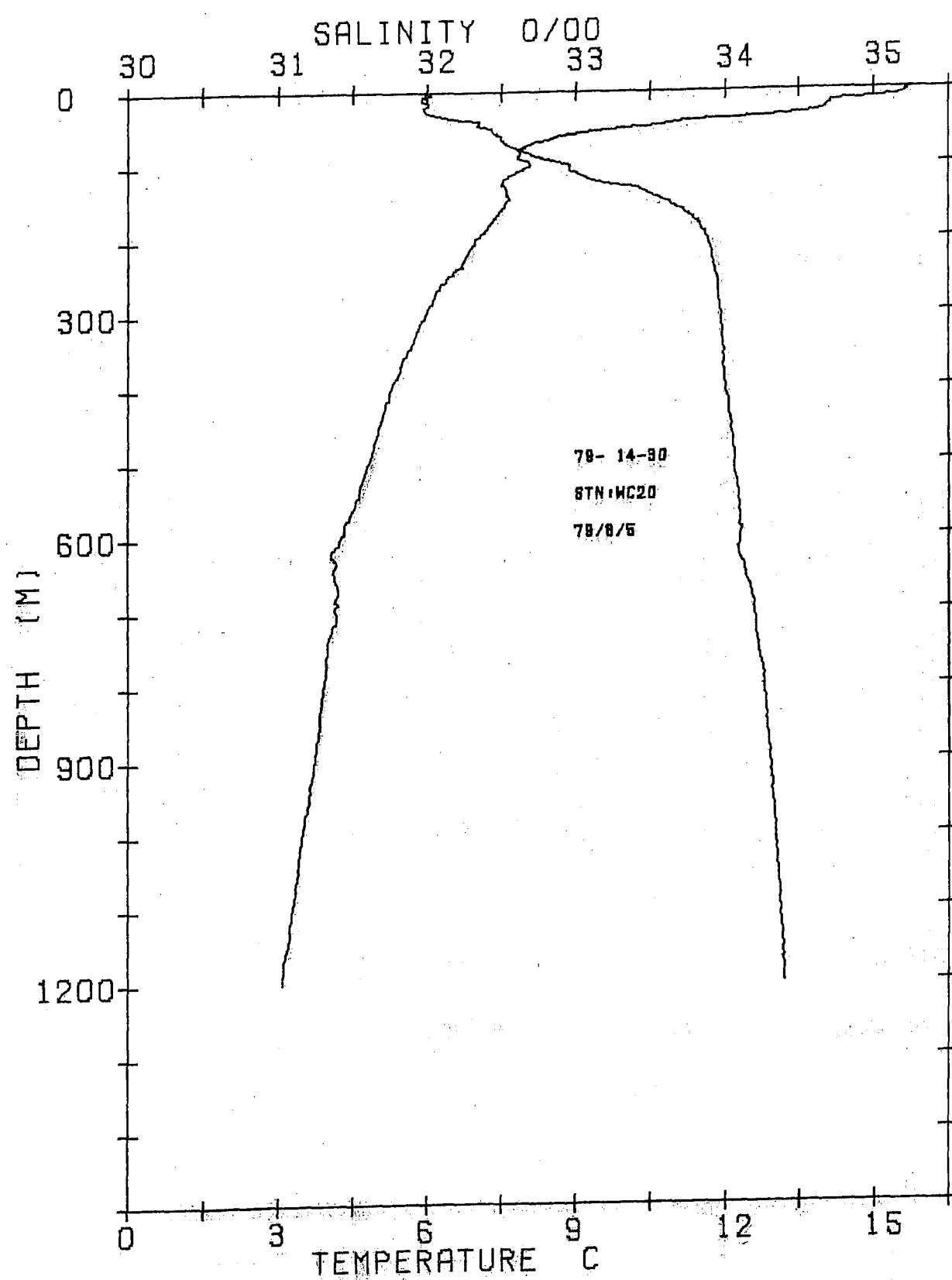
DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
0	15.51	31.97	23.56	434.3	.00	.00	1505.3
10	14.56	31.97	23.76	415.2	.42	.02	1502.4
20	13.77	32.01	23.95	397.2	.83	.08	1500.0
30	13.38	32.05	24.06	386.7	1.22	.18	1499.0
50	9.41	32.52	25.13	284.7	1.92	.46	1485.8
75	8.04	32.68	25.47	253.0	2.59	.87	1481.3
100	7.86	33.08	25.81	220.8	3.18	1.38	1481.5
125	7.64	33.39	26.09	195.2	3.70	1.97	1481.5
150	7.69	33.62	26.26	179.4	4.16	2.61	1482.3
175	7.47	33.76	26.40	166.2	4.59	3.30	1482.1
200	7.35	33.85	26.49	158.1	5.00	4.06	1482.2
225	7.12	33.89	26.55	152.7	5.39	4.88	1481.7
250	6.94	33.92	26.60	148.4	5.76	5.78	1481.4
300	6.41	33.96	26.71	138.7	6.48	7.75	1480.2
400	5.41	33.98	26.85	125.8	7.80	12.35	1477.8
500	4.91	34.05	26.96	116.2	9.01	17.80	1477.5
600	4.36	34.13	27.08	104.8	10.12	23.89	1477.0
800	3.97	34.26	27.23	91.8	12.09	37.62	1478.8
1000	3.52	34.35	27.34	81.7	13.82	53.22	1480.4
1200	3.07	34.41	27.44	73.5	15.37	70.17	1481.8

DEEPEST MEASUREMENT :

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
1210.2	3.06	34.41	27.44	73.3	15.44	71.08	1481.9

WIND MIXED LAYER DEPTH = 35.0 METRES

140



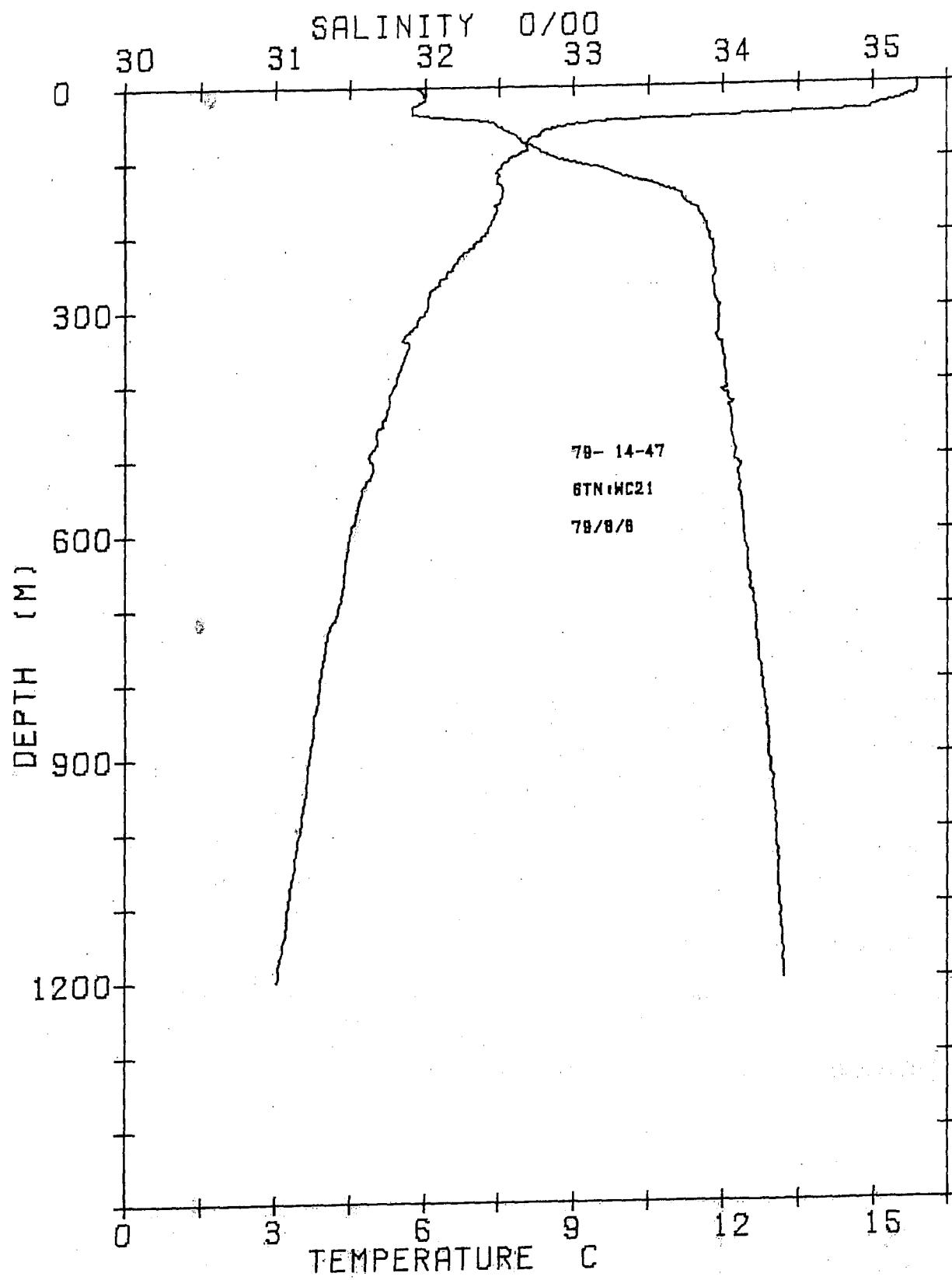
CRUISE : C.O.D.E. 79-14.
 STATION: WC20 CONS #030
 LAT N 48 53.5 LONG W 127 29.0
 DATE 79/08/05 TIME (PST) 1935

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
0	15.75	32.01	23.53	436.6	.00	.00	1506.1
10	15.48	31.96	23.55	434.8	.44	.02	1505.4
20	14.13	31.98	23.86	405.9	.85	.08	1501.2
30	13.89	32.03	23.94	398.4	1.25	.18	1500.6
50	9.97	32.43	24.97	300.2	1.93	.45	1487.8
75	7.95	32.59	25.41	258.6	2.62	.88	1480.8
100	8.06	32.96	25.69	232.9	3.24	1.42	1482.1
125	7.50	33.26	26.00	203.1	3.79	2.04	1480.8
150	7.58	33.63	26.28	177.0	4.26	2.68	1482.0
175	7.31	33.81	26.46	160.4	4.68	3.37	1481.6
200	6.98	33.88	26.57	150.9	5.07	4.10	1480.7
225	6.76	33.91	26.62	146.0	5.44	4.88	1480.3
250	6.43	33.94	26.69	139.9	5.80	5.73	1479.5
300	5.96	33.97	26.77	132.5	6.48	7.60	1478.4
400	5.27	34.00	26.88	122.7	7.76	12.07	1477.3
500	4.84	34.06	26.97	114.5	8.94	17.38	1477.2
600	4.26	34.10	27.07	105.9	10.04	23.40	1476.5
800	3.91	34.27	27.24	90.6	12.00	37.08	1478.6
1000	3.49	34.35	27.34	81.6	13.72	52.59	1480.2
1200	3.09	34.41	27.43	73.8	15.28	69.62	1481.9

DEEPEST MEASUREMENT :

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
1200.0	3.09	34.41	27.43	73.8	15.28	69.62	1481.9

WIND MIXED LAYER DEPTH = 30.0 METRES



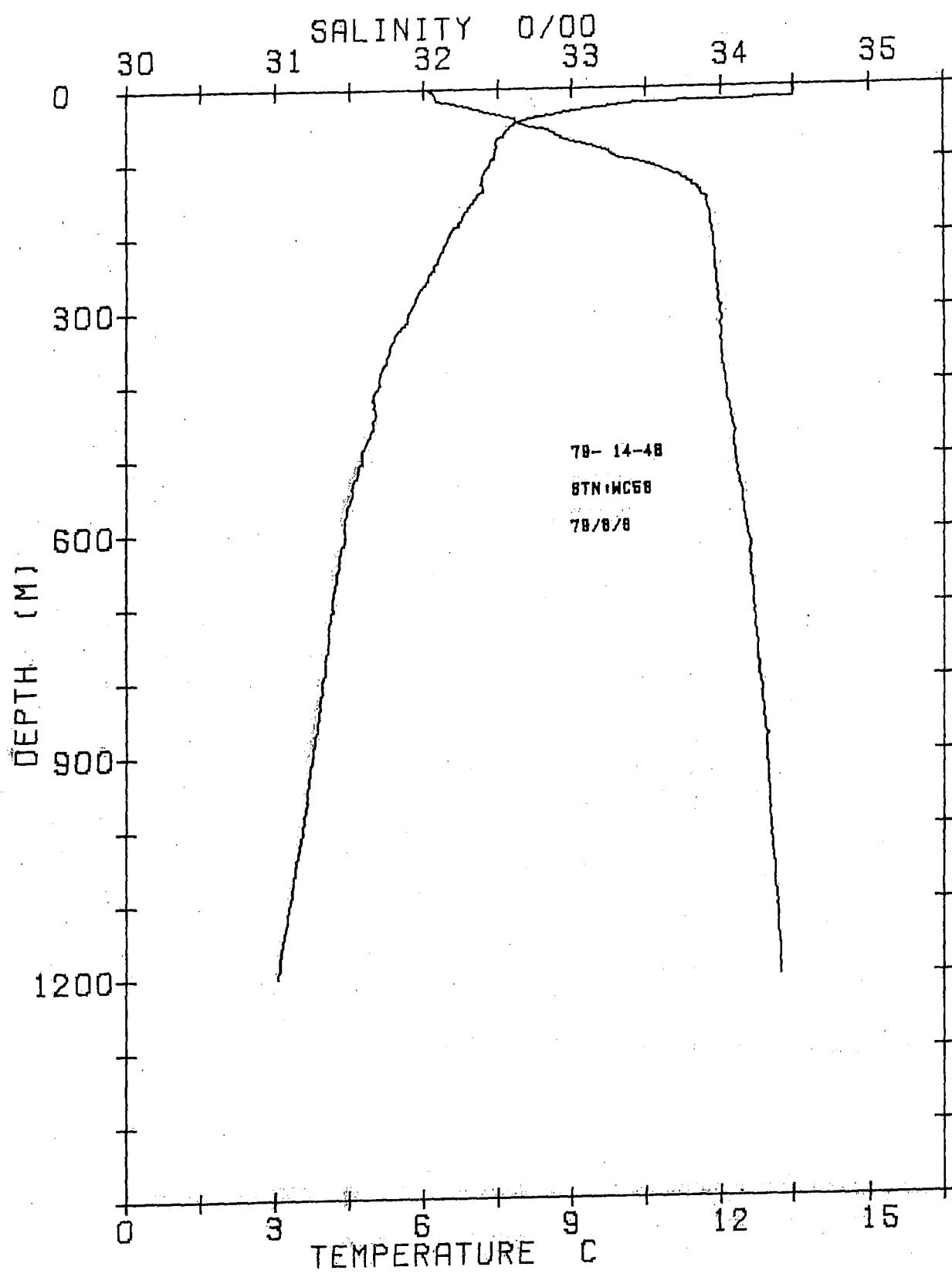
CRUISE : C.O.D.E. 79-14.
 STATION: WC21 CONS #047
 LAT N 48 59.0 LONG W 127 19.5
 DATE 79/08/06 TIME (PST) 1821

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT. EN	SOUND
0	15.89	31.94	23.45	444.5	.00	.00	1506.4
10	15.91	31.99	23.48	441.7	.44	.02	1506.7
20	15.68	31.96	23.51	439.6	.88	.09	1506.2
30	15.06	31.91	23.60	430.7	1.32	.20	1504.3
50	9.14	32.48	25.15	283.6	2.05	.48	1484.8
75	8.06	32.67	25.46	254.2	2.72	.90	1481.4
100	7.69	32.96	25.74	228.0	3.32	1.43	1480.7
125	7.44	33.41	26.13	190.8	3.84	2.01	1480.7
150	7.55	33.73	26.36	169.4	4.28	2.62	1482.0
175	7.42	33.86	26.49	158.2	4.69	3.28	1482.0
200	7.20	33.91	26.56	151.7	5.08	4.00	1481.7
225	6.74	33.93	26.63	144.7	5.45	4.79	1480.3
250	6.45	33.95	26.69	139.8	5.80	5.63	1479.6
300	6.03	33.97	26.76	133.6	6.49	7.51	1478.7
400	5.39	34.02	26.88	122.6	7.76	11.97	1477.8
500	4.88	34.07	26.98	113.8	8.94	17.26	1477.4
600	4.51	34.14	27.07	105.4	10.03	23.26	1477.6
800	3.90	34.27	27.24	90.8	12.00	36.94	1478.5
1000	3.50	34.36	27.35	80.9	13.71	52.33	1480.3
1200	3.04	34.41	27.44	73.3	15.25	69.27	1481.7

DEEPEST MEASUREMENT :

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT. EN	SOUND
1200.0	3.04	34.41	27.44	73.3	15.25	69.27	1481.7

WIND MIXED LAYER DEPTH = 33.1 METRES



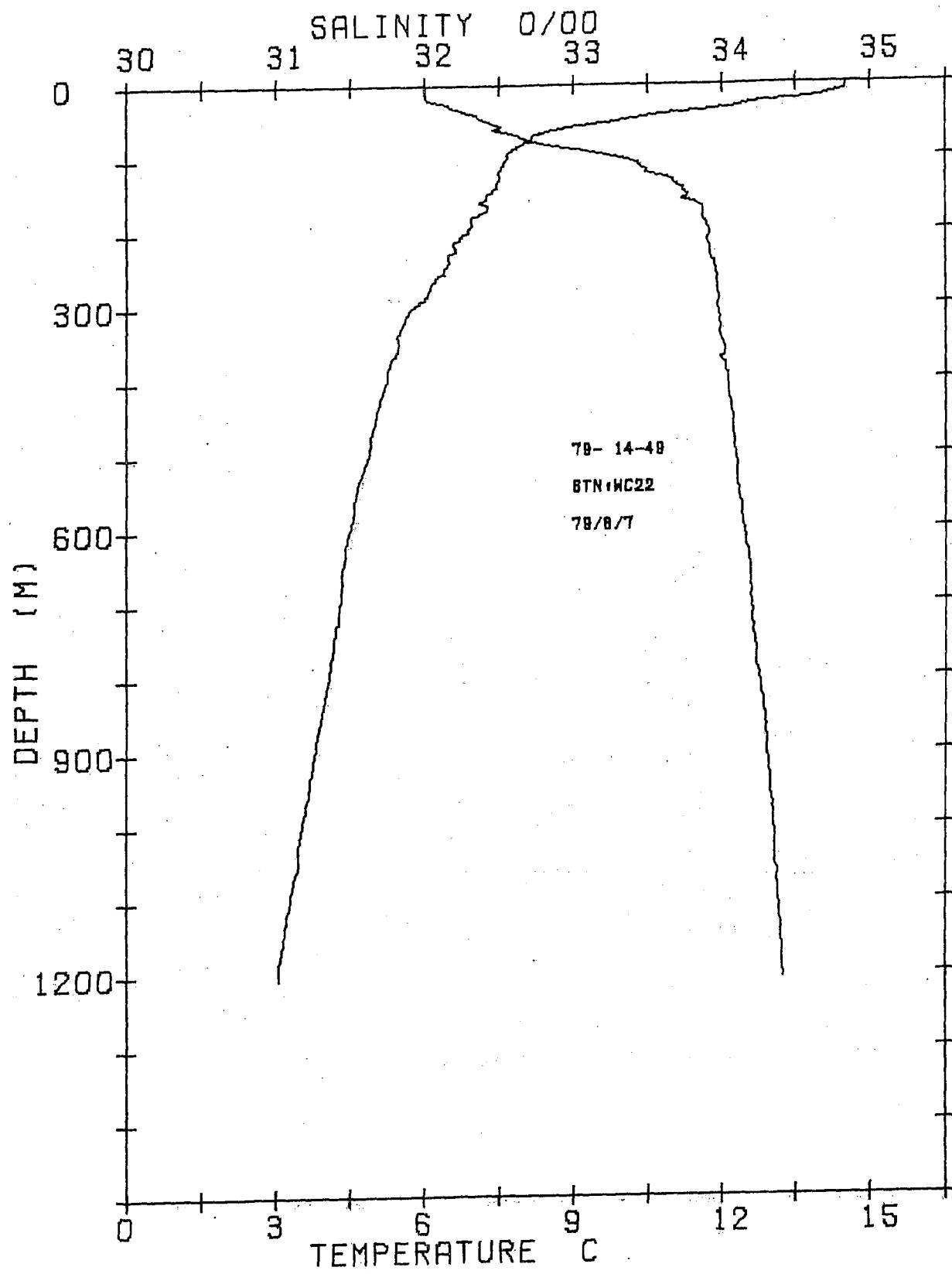
CRUISE : C.O.D.E. 79-14.
 STATION: WC58 CONS #048
 LAT N 48 48.5 LONG W 126 52.5
 DATE 79/08/06 TIME (PST) 2224

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
0	13.48	32.03	24.02	390.0	.00	.00	1498.8
10	13.49	32.08	24.06	386.6	.39	.02	1499.0
20	10.46	32.21	24.72	324.0	.76	.07	1488.8
30	9.06	32.39	25.09	288.8	1.06	.15	1484.1
50	7.80	32.68	25.51	248.9	1.59	.36	1480.0
75	7.45	33.09	25.88	214.4	2.17	.72	1479.5
100	7.36	33.45	26.17	186.8	2.67	1.16	1480.0
125	7.17	33.77	26.45	160.8	3.10	1.64	1480.2
150	7.06	33.90	26.57	150.1	3.49	2.17	1480.3
175	6.78	33.93	26.63	144.1	3.86	2.77	1479.6
200	6.51	33.95	26.68	139.5	4.21	3.44	1479.0
225	6.33	33.96	26.71	137.3	4.56	4.17	1478.7
250	6.16	33.97	26.74	134.5	4.90	4.98	1478.4
300	5.74	33.99	26.81	128.1	5.55	6.78	1477.6
400	5.12	34.03	26.92	118.8	6.79	11.09	1476.7
500	4.74	34.10	27.02	109.9	7.93	16.21	1476.9
600	4.41	34.19	27.13	100.4	8.98	21.98	1477.3
800	3.94	34.28	27.24	90.6	10.89	35.31	1478.7
1000	3.54	34.35	27.34	82.2	12.61	50.76	1480.4
1200	3.07	34.42	27.44	72.9	14.15	67.67	1481.8

DEEPEST MEASUREMENT :

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
1200.0	3.07	34.42	27.44	72.9	14.15	67.67	1481.8

WIND MIXED LAYER DEPTH = 14.1 METRES



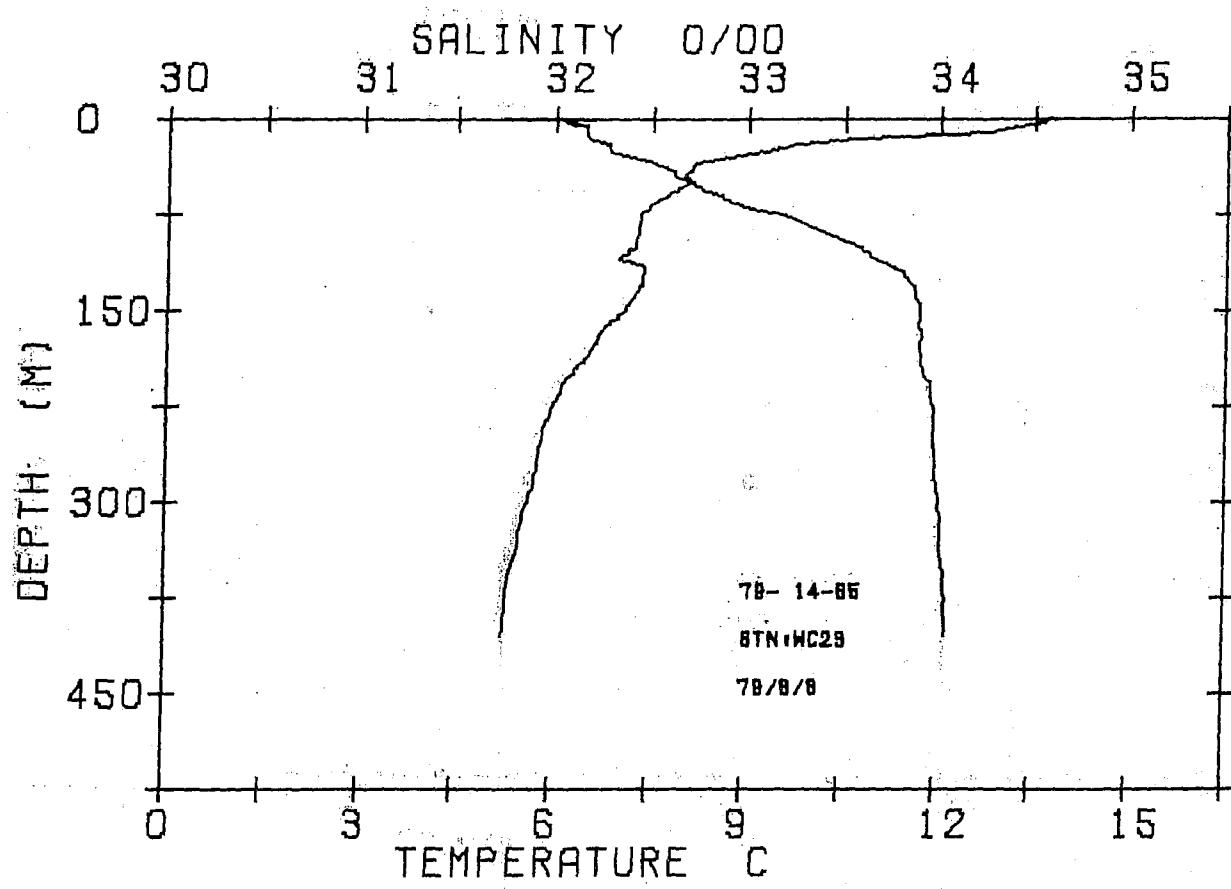
CRUISE : C.O.D.E. 79-14.
 STATION: WC22 CONS #049
 LAT N 49 04.5 LONG W 127 11.0
 DATE 79/08/07 TIME (PST) 0307

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
0	14.51	32.01	23.80	411.2	.00	.00	1502.1
10	14.50	32.01	23.80	411.6	.41	.02	1502.3
20	13.81	32.02	23.95	397.1	.82	.08	1500.2
30	12.41	32.18	24.35	359.4	1.19	.17	1495.8
50	9.90	32.43	24.99	298.7	1.83	.43	1487.5
75	8.15	32.70	25.47	253.0	2.51	.85	1481.7
100	7.69	33.33	26.03	199.9	3.08	1.34	1481.2
125	7.51	33.63	26.29	175.8	3.55	1.87	1481.3
150	7.27	33.77	26.44	162.2	3.97	2.45	1480.9
175	7.12	33.88	26.54	152.8	4.37	3.09	1480.9
200	6.88	33.92	26.61	147.0	4.74	3.79	1480.4
225	6.62	33.92	26.65	143.4	5.10	4.56	1479.8
250	6.39	33.96	26.71	137.8	5.45	5.40	1479.3
300	5.80	33.97	26.79	130.1	6.12	7.24	1477.8
400	5.25	34.04	26.91	119.3	7.37	11.58	1477.3
500	4.88	34.10	27.00	111.7	8.52	16.75	1477.5
600	4.50	34.16	27.09	103.9	9.60	22.68	1477.6
800	4.08	34.26	27.22	93.4	11.57	36.45	1479.3
1000	3.55	34.35	27.34	82.1	13.31	52.08	1480.5
1200	3.06	34.42	27.44	73.0	14.86	69.08	1481.8

DEEPEST MEASUREMENT :

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
1205.2	3.06	34.42	27.44	72.6	14.89	69.53	1481.8

WIND MIXED LAYER DEPTH = 20.0 METRES



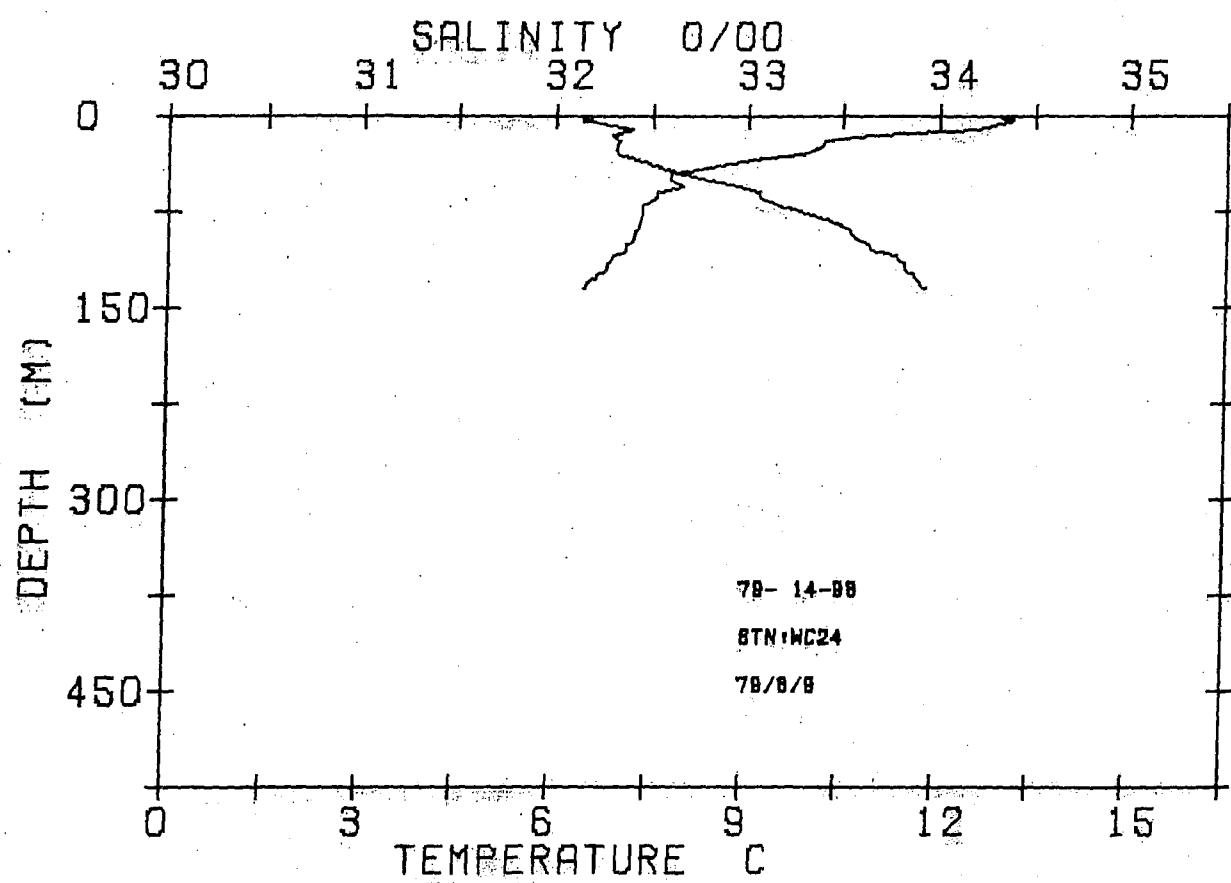
CRUISE : C.O.O.E. 79-14.
 STATION: WC23 CONS #065
 LAT N 49 10.0 LONG W 127 02.0
 DATE 79/08/08 TIME (PST) 0437

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
0	13.79	32.05	23.97	394.3	.00	.00	1499.8
10	12.78	32.16	24.26	367.3	.38	.02	1496.7
20	9.81	32.27	24.88	308.8	.72	.07	1486.5
30	8.74	32.40	25.15	283.3	1.01	.14	1482.9
50	8.10	32.71	25.49	251.1	1.54	.35	1481.1
75	7.34	33.19	25.97	205.1	2.12	.71	1479.2
100	7.24	33.59	26.30	174.8	2.59	1.13	1479.8
125	7.35	33.83	26.47	158.6	3.01	1.59	1480.9
150	7.08	33.90	26.56	150.3	3.39	2.12	1480.4
175	6.67	33.90	26.62	144.8	3.76	2.72	1479.1
200	6.30	33.92	26.68	139.3	4.11	3.38	1478.1
225	6.01	33.98	26.77	131.6	4.45	4.09	1477.4
250	5.85	33.98	26.79	129.5	4.78	4.87	1477.2
300	5.63	34.01	26.84	125.6	5.41	6.62	1477.2
400	5.28	34.05	26.92	119.2	6.63	10.88	1477.4

DEEPEST MEASUREMENT :

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
405.2	5.26	34.05	26.92	119.1	6.69	11.13	1477.4

WIND MIXED LAYER DEPTH = 4.2 METRES

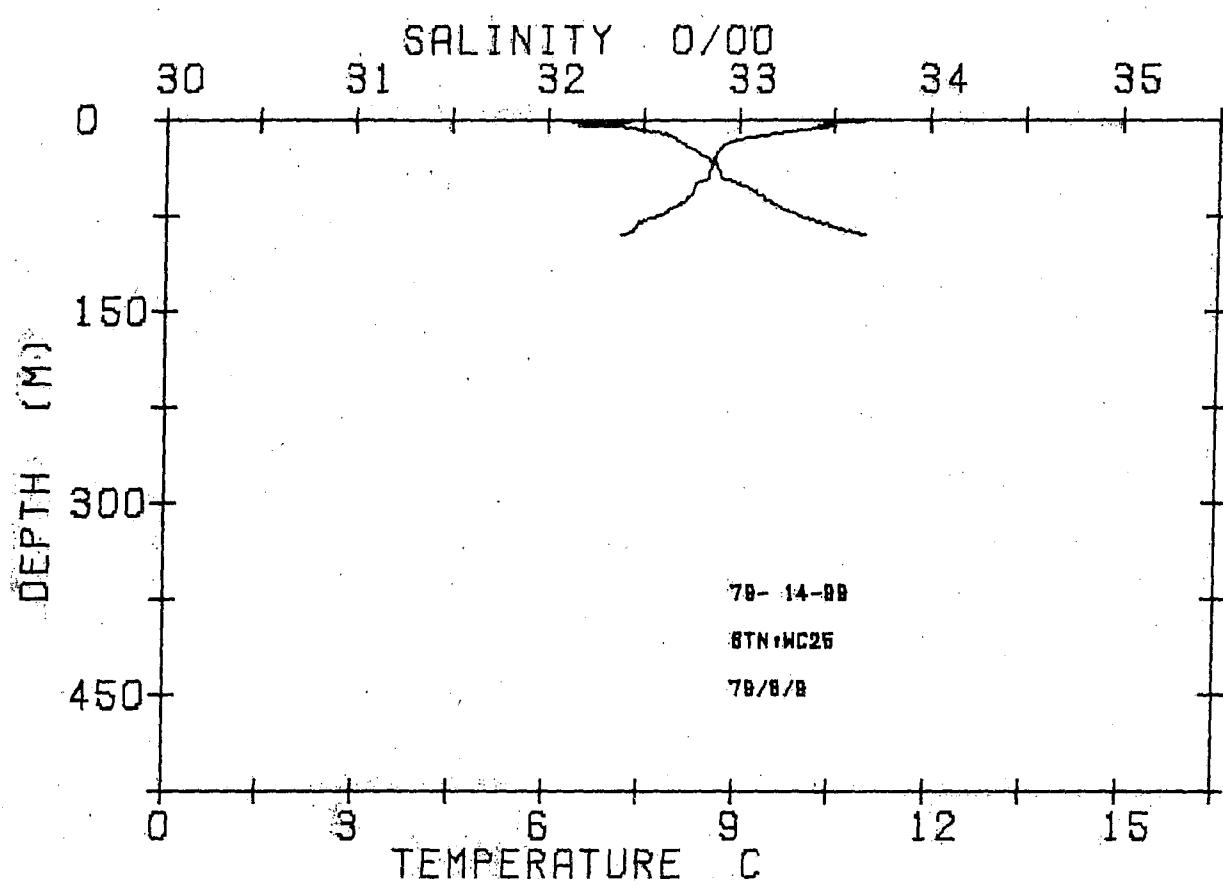


CRUISE : C.O.D.E. 79-14.
 STATION: WC24 CONS #098
 LAT N 49 15.5 LONG W 126 53.0
 DATE 79/08/09 TIME (PST) 0250

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT. EN	SOUND
0	13.03	32.14	24.20	372.9	.00	.00	1497.4
10	12.57	32.39	24.48	346.1	.37	.02	1496.3
20	10.21	32.32	24.85	311.1	.69	.07	1488.0
30	9.84	32.32	24.91	305.8	1.00	.14	1486.9
50	7.76	32.76	25.58	242.6	1.54	.36	1479.9
75	7.36	33.28	26.04	198.8	2.09	.70	1479.4
100	7.11	33.64	26.36	168.9	2.54	1.09	1479.3
125	6.67	33.86	26.59	147.0	2.94	1.53	1478.3

DEEPEST MEASUREMENT :

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT. EN	SOUND
135.3	6.44	33.93	26.67	139.7	3.08	1.72	1477.6

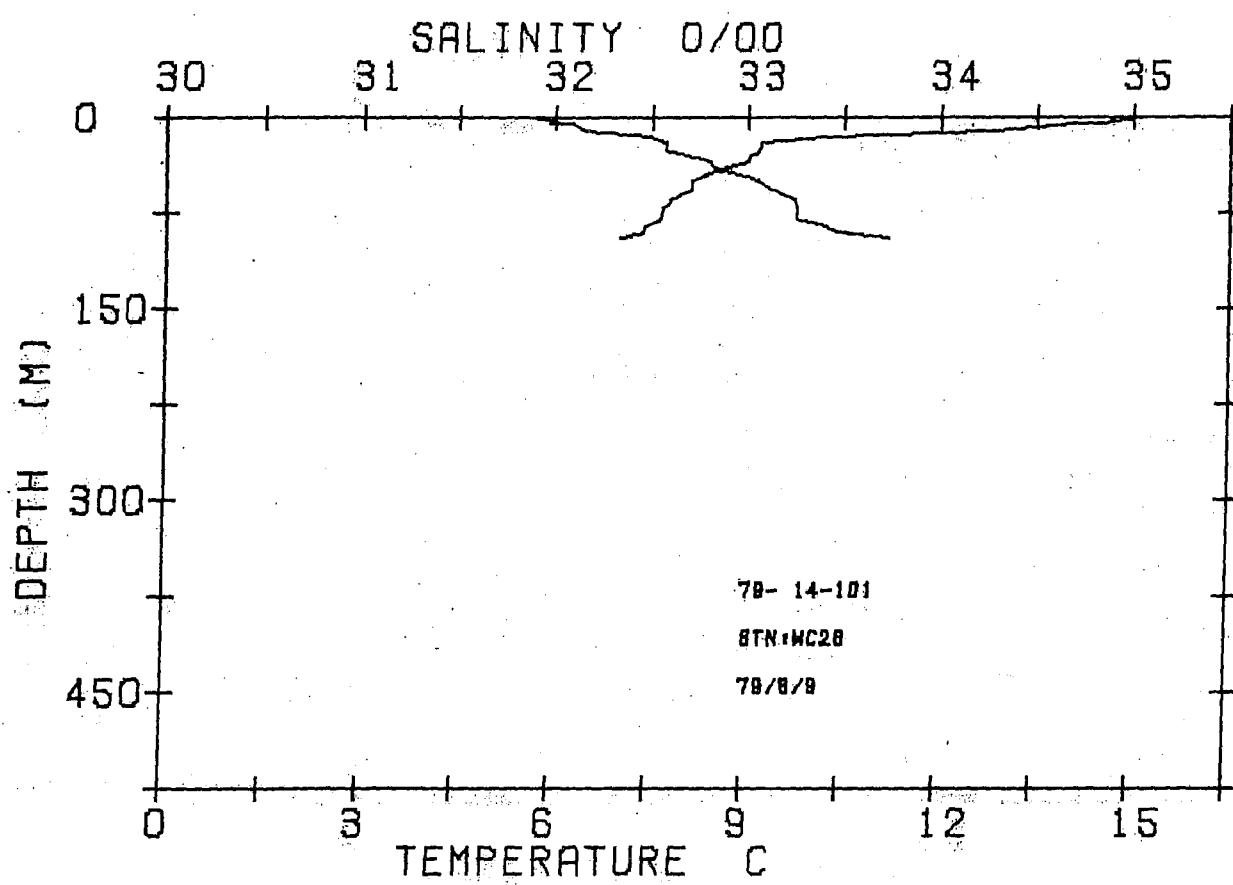


CRUISE : C.O.D.E. 79-14.
 STATION: WC25 CONS #049
 LAT N 49 21.5 LONG W 126 44.5
 DATE 79/08/09 TIME (PST) 0400

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
0	11.36	31.88	24.31	362.2	.00	.00	1491.3
10	9.61	32.61	25.18	280.0	.31	.01	1486.1
20	8.73	32.72	25.40	258.9	.57	.05	1483.1
30	8.59	32.84	25.52	248.2	.83	.12	1482.9
50	8.31	33.00	25.68	232.4	1.31	.31	1482.3
75	7.71	33.33	26.03	200.0	1.86	.65	1480.8

DEEPEST MEASUREMENT :

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
90.0	7.18	33.67	26.37	167.8	2.13	.88	1479.5

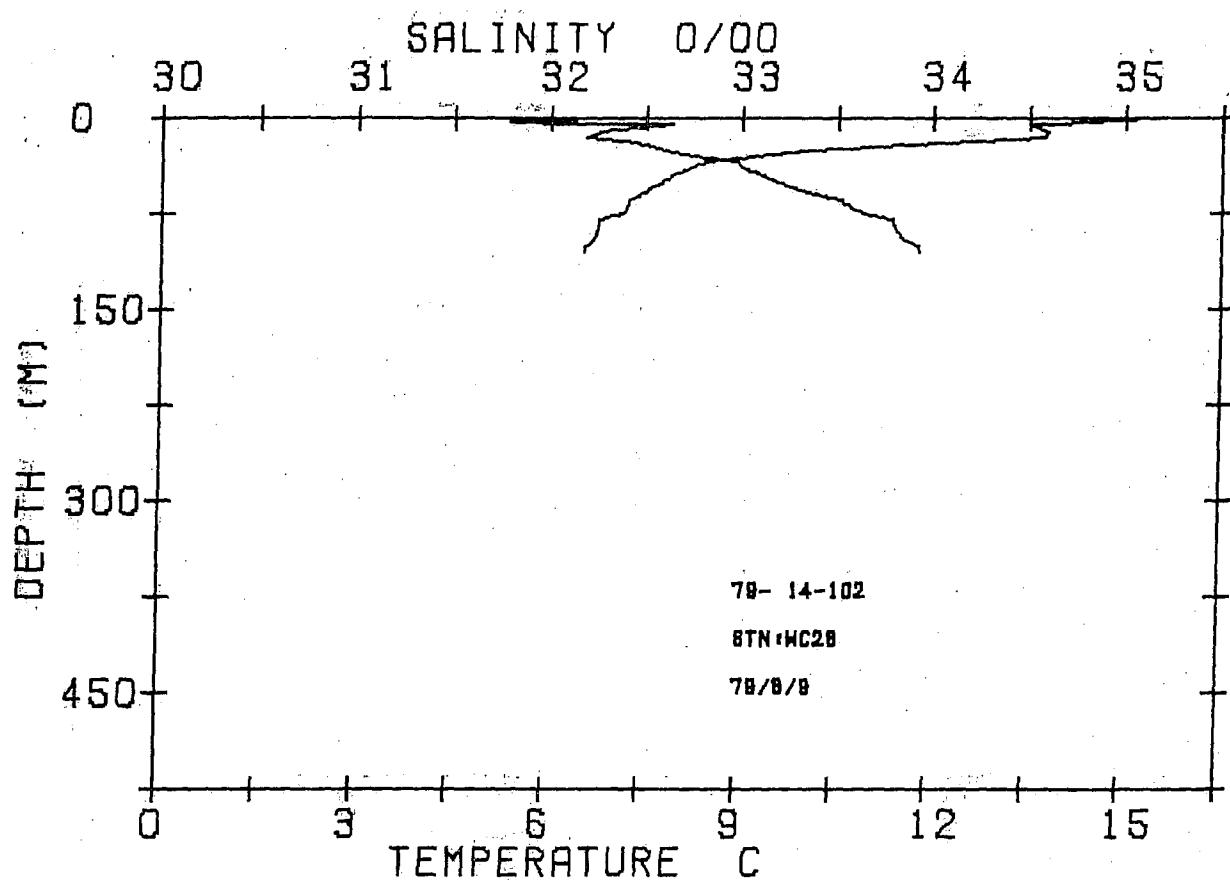


CRUISE : C.O.D.E. 79-14.
 STATION: WC26 CONS #101
 LAT N 49 30.5 LONG W 126 51.1
 DATE 79/08/09 TIME (PST) 1129

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
0	15.09	31.89	23.58	431.8	.00	.00	1503.9
10	12.78	32.15	24.25	367.9	.40	.02	1496.7
20	9.22	32.56	25.20	277.7	.71	.06	1484.7
30	9.05	32.69	25.33	266.0	.99	.13	1484.4
50	8.12	33.05	25.75	226.2	1.48	.33	1481.7
75	7.64	33.26	25.98	204.4	2.01	.66	1480.5

DEEPEST MEASUREMENT :

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
95.1	7.01	33.74	26.45	160.4	2.39	.98	1479.0

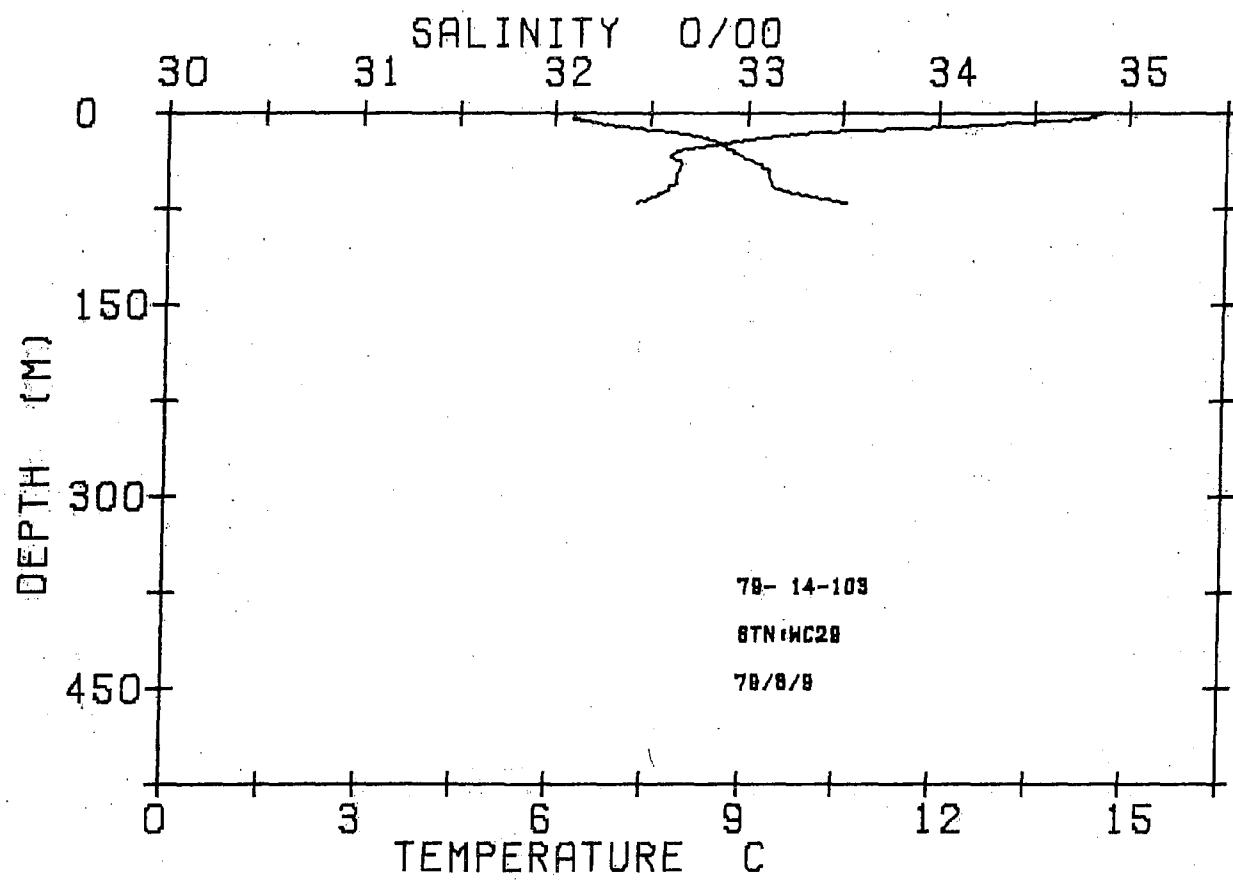


CRUISE : C.O.D.E. 79-14.
 STATION: WC28 CONS #102
 LAT N 49 40.5 LONG W 127 11.0
 DATE 79/08/09 TIME (PST) 1236

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
0	15.59	31.50	23.19	469.5	.00	.00	1505.0
10	13.77	32.26	24.14	378.6	.39	.02	1500.2
20	12.16	32.45	24.61	334.5	.76	.07	1495.1
30	9.17	32.75	25.35	263.5	1.05	.15	1484.9
50	7.76	33.17	25.89	212.4	1.51	.33	1480.4
75	7.10	33.64	26.36	168.9	1.98	.62	1478.9
100	6.57	33.93	26.66	140.4	2.36	.95	1477.6

DEEPEST MEASUREMENT :

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
105.3	6.55	33.94	26.67	139.8	2.43	1.03	1477.6

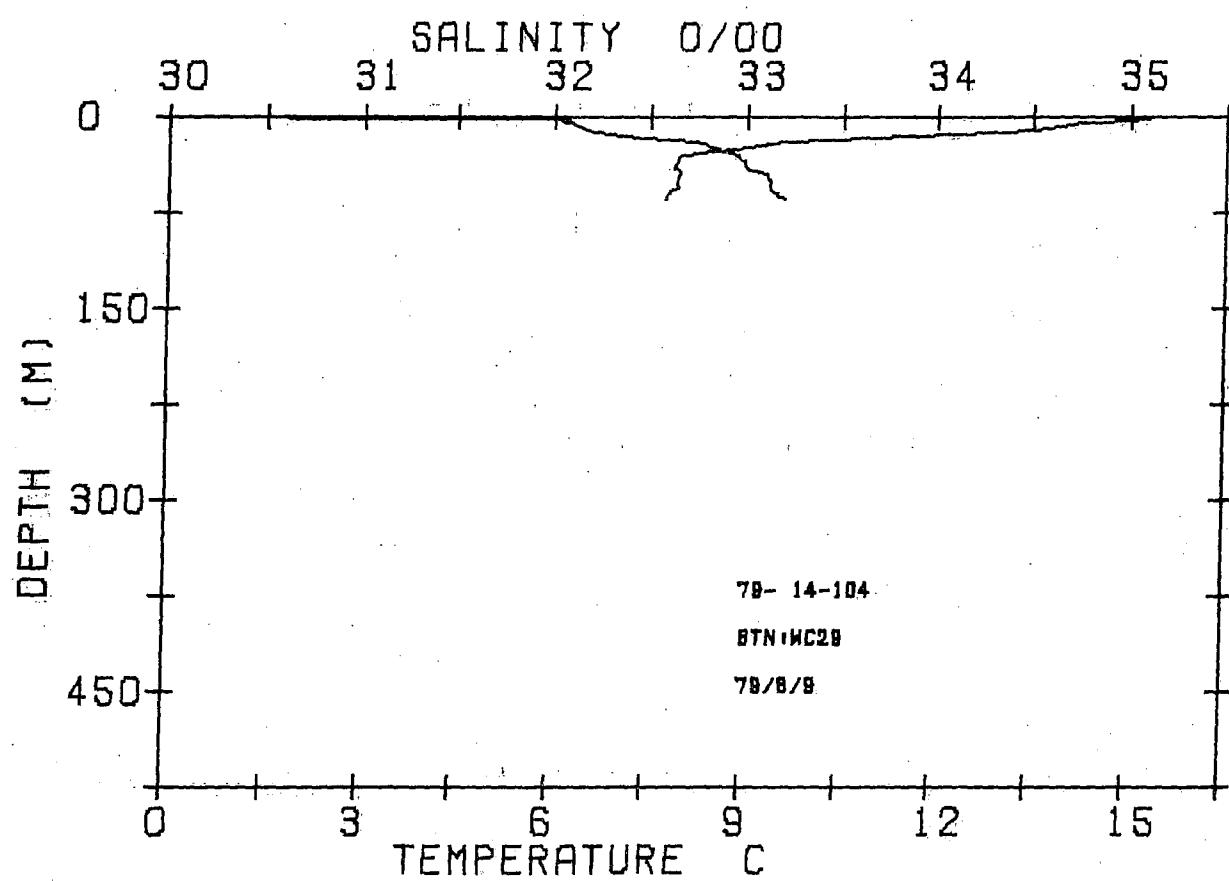


CRUISE : C.O.D.E. 79-14.
 STATION: WC29 CONS #103
 LAT N 49 46.0 LONG W 127 20.0
 DATE 79/08/09 TIME (PST) 1339

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT. EN	SOUND
0	14.59	32.09	23.84	406.7	.00	.00	1502.5
10	12.34	32.33	24.48	346.7	.39	.02	1495.4
20	9.26	32.78	25.37	262.0	.69	.06	1485.1
30	7.93	32.92	25.68	232.5	.93	.12	1480.4
50	7.93	33.12	25.83	218.4	1.38	.30	1481.0

DEEPEST MEASUREMENT :

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT. EN	SOUND
70.1	7.28	33.52	26.24	179.8	1.80	.55	1479.3

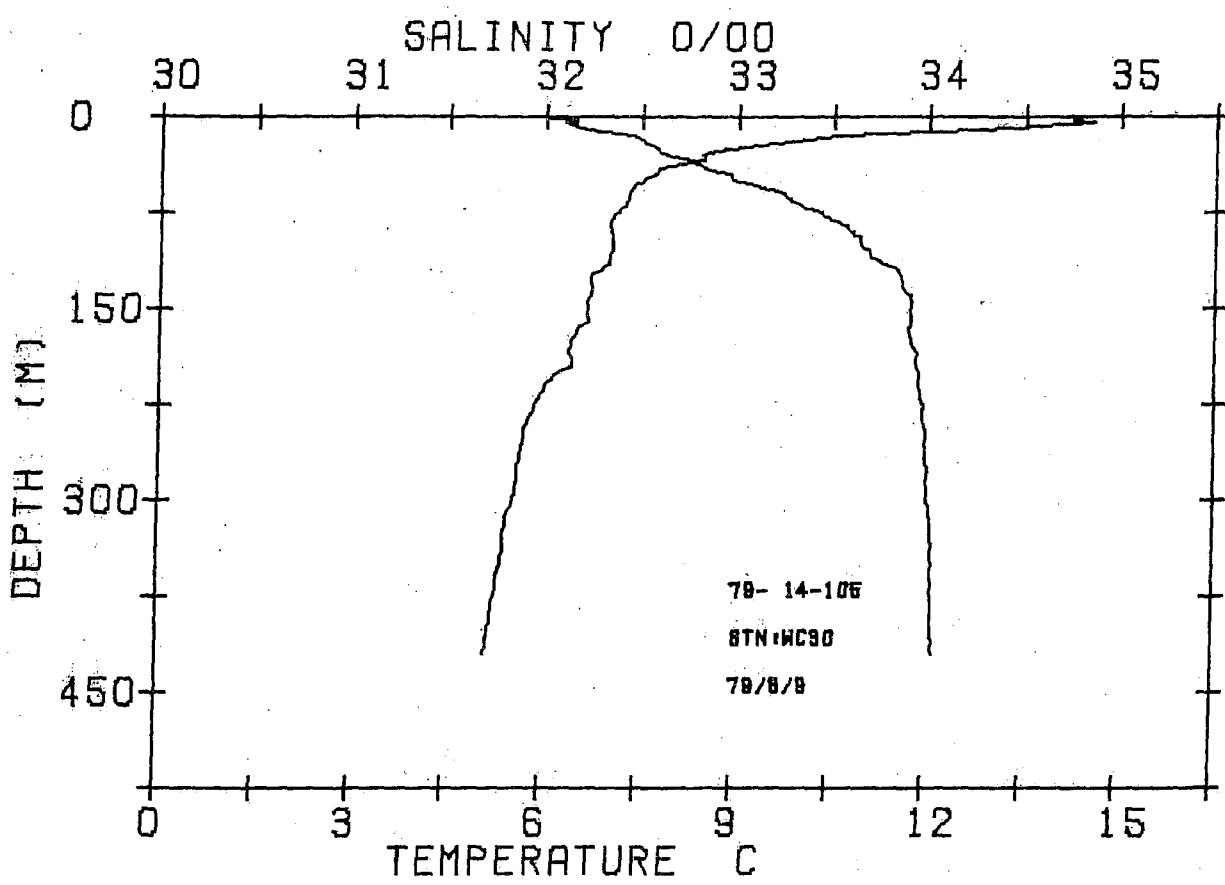


CRUISE : C.O.D.E. 79-14.
 STATION: WC29 CONS #104
 LAT N 49 46.0 LONG W 127 20.0
 DATE 79/08/09 TIME (PST) 1346

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT. EN	SOUND
0	15.32	29.14	21.43	637.8	.00	.00	1501.3
10	13.56	32.17	24.11	381.4	.42	.02	1499.4
20	9.60	32.73	25.27	270.9	.75	.07	1486.4
30	8.04	32.95	25.69	231.8	1.00	.13	1480.9
50	7.93	33.12	25.83	218.6	1.45	.31	1481.0

DEEPEST MEASUREMENT :

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT. EN	SOUND
65.0	7.75	33.19	25.91	211.1	1.77	.50	1480.7



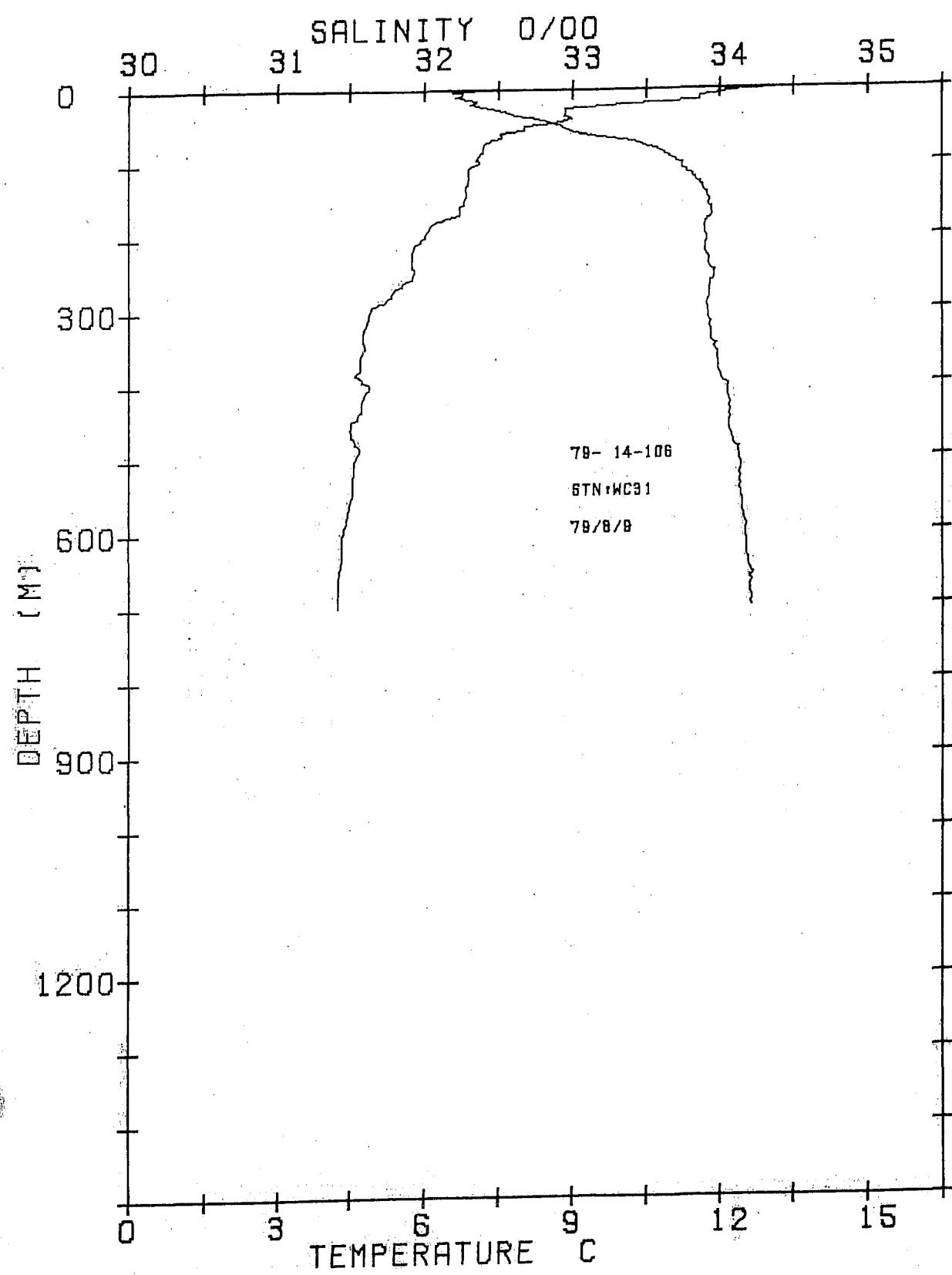
CRUISE : C.O.D.E. 79-14.
 STATION: WC30 CONS #105
 LAT N 49 40.5 LONG W 127 29.0
 DATE 79/08/09 TIME (PST) 1455

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
0	14.15	32.01	23.87	403.9	.00	.00	1501.0
10	12.83	32.21	24.29	364.2	.39	.02	1497.0
20	9.85	32.51	25.06	291.8	.71	.07	1487.0
30	8.45	32.62	25.36	262.5	.98	.13	1482.0
50	7.54	32.98	25.78	223.4	1.47	.32	1479.3
75	7.15	33.44	26.20	184.1	1.97	.64	1478.8
100	7.05	33.65	26.37	167.6	2.40	1.02	1479.1
125	6.71	33.86	26.58	148.1	2.80	1.46	1478.5
150	6.68	33.91	26.63	143.9	3.16	1.96	1478.8
175	6.43	33.92	26.67	140.8	3.52	2.54	1478.2
200	6.23	33.96	26.73	135.2	3.87	3.19	1477.9
225	5.88	33.99	26.79	129.4	4.20	3.90	1476.9
250	5.69	34.00	26.82	126.5	4.52	4.66	1476.6
300	5.56	34.01	26.85	124.6	5.15	6.38	1476.9
400	5.19	34.04	26.92	118.8	6.36	10.61	1477.1

DEEPEST MEASUREMENT :

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
420.2	5.13	34.05	26.93	117.5	6.60	11.59	1477.1

WIND MIXED LAYER DEPTH = 4.7 METRES



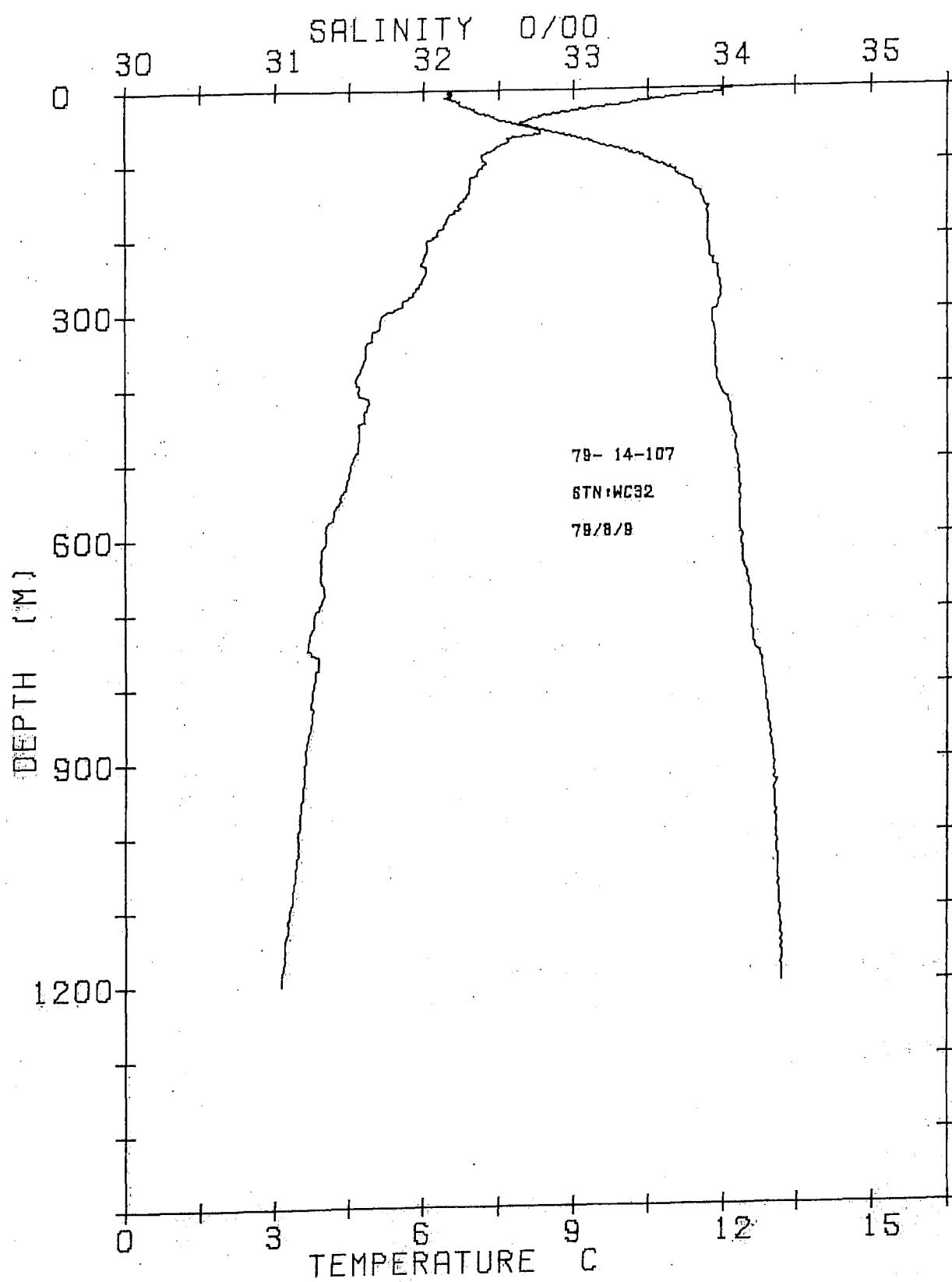
CRUISE : C.O.D.E. 79-14.
 STATION: WC31 CONS #106
 LAT N 49 34.5 LONG W 127 38.0
 DATE 79/08/09 TIME (PST) 1634

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
0	12.99	32.33	24.35	358.1	.00	.00	1497.5
10	11.60	32.21	24.52	342.6	.35	.02	1492.7
20	10.09	32.31	24.86	310.1	.68	.07	1487.6
30	8.84	32.53	25.24	274.5	.97	.14	1483.4
50	8.04	32.93	25.67	233.9	1.48	.34	1481.2
75	7.20	33.49	26.23	181.0	2.00	.67	1479.1
100	7.11	33.74	26.43	161.8	2.43	1.04	1479.4
125	6.88	33.86	26.56	150.3	2.82	1.47	1479.1
150	6.80	33.93	26.63	144.1	3.18	1.98	1479.3
175	6.38	33.92	26.68	139.6	3.54	2.56	1478.0
200	5.99	33.91	26.72	135.8	3.89	3.20	1476.9
225	5.76	33.92	26.75	132.8	4.22	3.92	1476.3
250	5.79	33.96	26.78	130.3	4.55	4.70	1476.9
300	4.91	33.92	26.85	123.6	5.19	6.46	1474.1
400	4.89	34.05	26.96	114.4	6.38	10.62	1475.8
500	4.63	34.13	27.06	106.4	7.49	15.60	1476.5
600	4.37	34.17	27.11	101.6	8.54	21.34	1477.1

DEEPEST MEASUREMENT :

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
700.2	4.25	34.21	27.15	98.6	9.53	27.82	1478.3

WIND MIXED LAYER DEPTH = 11.7 METRES



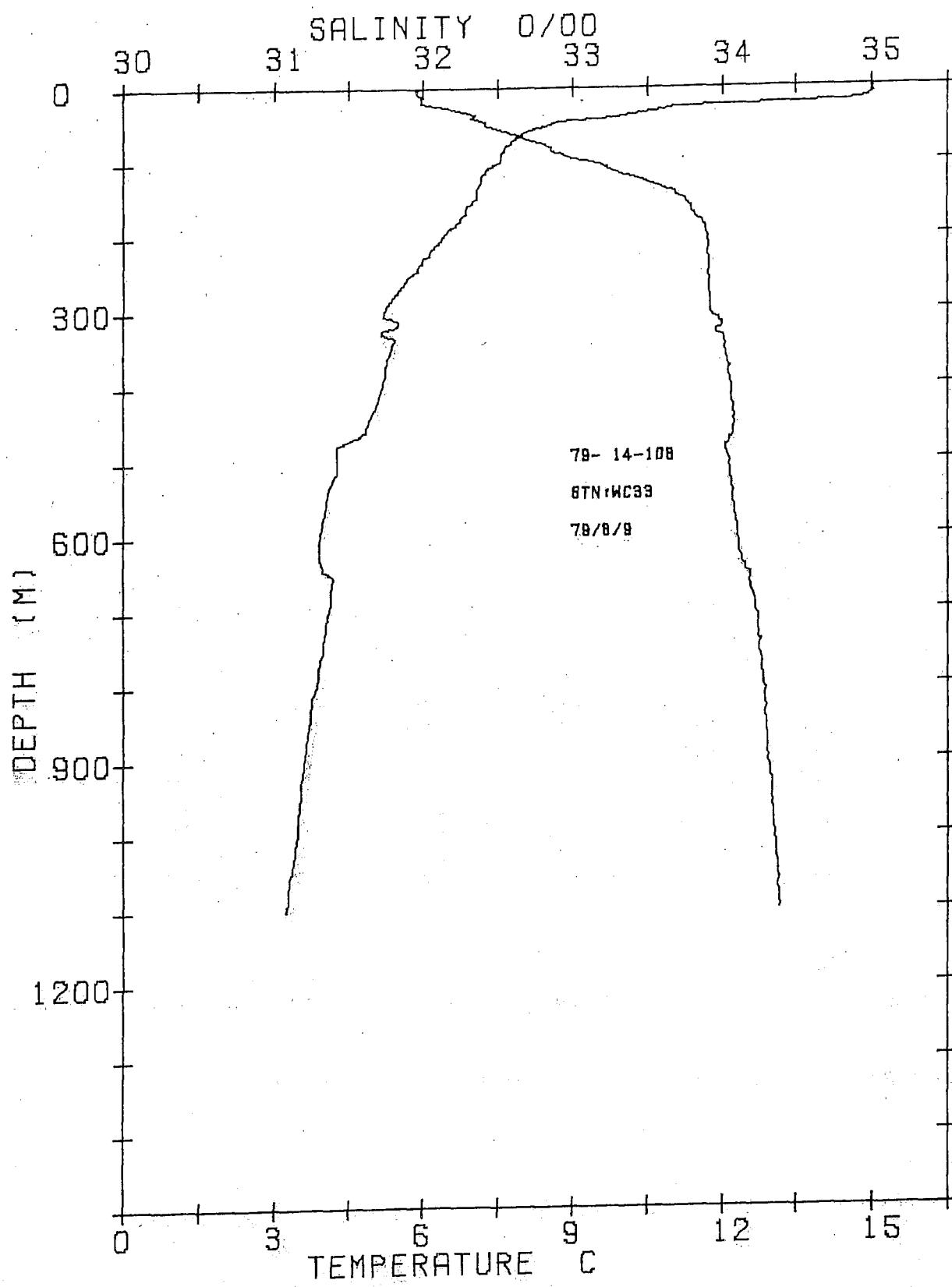
CRUISE : C.O.D.E. 79-14.
 STATION: WC32 CONS #107
 LAT N 49 29.0 LONG W 127 46.5
 DATE 79/08/09 TIME (PST) 1825

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT·EN	SOUND
0	12.21	32.16	24.37	357.0	.00	.00	1494.6
10	11.35	32.14	24.51	343.4	.35	.02	1491.8
20	10.11	32.24	24.81	315.4	.68	.07	1487.6
30	8.83	32.35	25.10	287.8	.97	.14	1483.1
50	8.09	32.70	25.48	251.9	1.51	.35	1481.1
75	7.52	33.20	25.95	207.1	2.08	.71	1479.9
100	7.24	33.55	26.27	177.5	2.55	1.12	1479.7
125	6.92	33.80	26.50	155.5	2.97	1.58	1479.2
150	6.79	33.87	26.58	148.2	3.35	2.11	1479.2
175	6.48	33.90	26.65	142.7	3.71	2.69	1478.4
200	6.18	33.90	26.69	139.2	4.06	3.36	1477.6
225	6.00	33.91	26.72	136.2	4.40	4.08	1477.3
250	6.04	33.97	26.76	132.7	4.74	4.88	1477.9
300	5.25	33.93	26.83	126.5	5.39	6.66	1475.5
400	4.70	33.98	26.93	117.5	6.60	10.90	1474.9
500	4.57	34.10	27.03	108.4	7.73	15.98	1476.2
600	4.06	34.13	27.11	101.5	8.78	21.74	1475.7
800	3.80	34.28	27.26	88.8	10.69	35.06	1478.2
1000	3.48	34.36	27.36	80.4	12.37	50.13	1480.2
1200	3.15	34.40	27.42	75.4	13.92	67.24	1482.1

DEEPEST MEASUREMENT :

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT·EN	SOUND
1200.0	3.15	34.40	27.42	75.4	13.92	67.24	1482.1

WIND MIXED LAYER DEPTH = 3.4 METRES



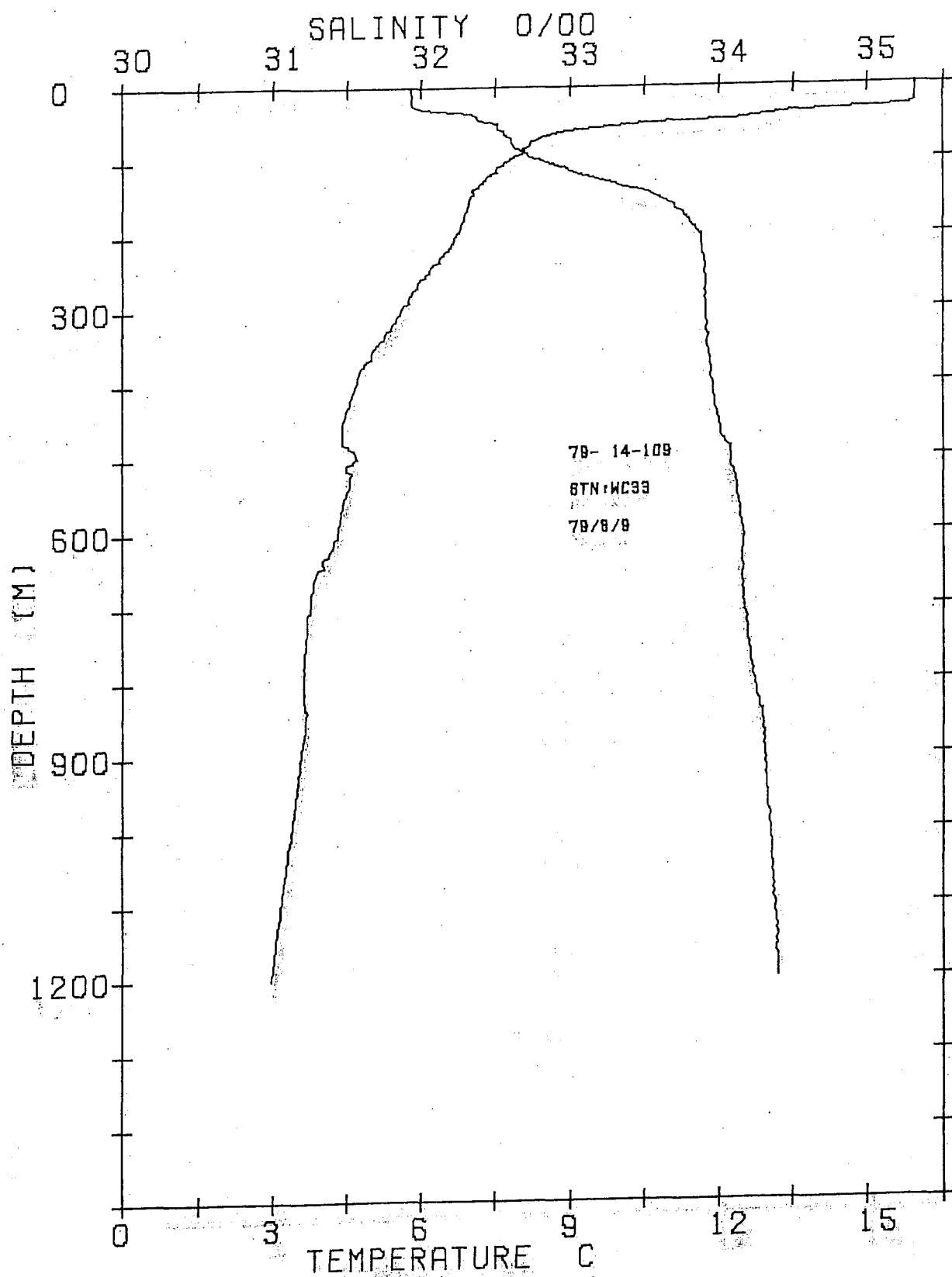
CRUISE : C.O.D.E. 79-14.
 STATION: WC33 CONS #108
 LAT N 49 23.5 LONG W 127 55.0
 DATE 79/08/09 TIME (PST) 2048

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
0	14.99	31.97	23.67	423.8	.00	.00	1503.6
10	15.03	31.98	23.67	423.9	.42	.02	1503.9
20	14.53	31.99	23.78	413.7	.84	.08	1502.5
30	10.82	32.24	24.69	327.1	1.20	.17	1490.3
50	8.59	32.41	25.18	280.2	1.80	.41	1482.6
75	7.75	32.81	25.61	239.5	2.45	.81	1480.3
100	7.55	33.13	25.90	212.8	3.02	1.31	1480.4
125	7.16	33.49	26.23	181.7	3.51	1.86	1479.7
150	7.05	33.75	26.45	160.9	3.94	2.45	1480.0
175	6.76	33.83	26.56	151.3	4.33	3.08	1479.4
200	6.42	33.90	26.65	142.3	4.69	3.76	1478.5
225	6.13	33.90	26.69	139.0	5.04	4.51	1477.8
250	5.79	33.90	26.74	134.9	5.38	5.32	1476.8
300	5.24	33.92	26.82	127.5	6.04	7.11	1475.4
400	5.18	34.06	26.93	117.6	7.26	11.38	1477.0
500	4.26	34.05	27.03	108.8	8.39	16.47	1474.8
600	3.93	34.10	27.11	101.7	9.44	22.26	1475.2
800	3.88	34.28	27.25	89.3	11.35	35.59	1478.5
1000	3.48	34.36	27.35	80.7	13.04	50.77	1480.2

DEEPEST MEASUREMENT :

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
1100.1	3.24	34.39	27.40	76.1	13.82	58.96	1480.9

WIND MIXED LAYER DEPTH = 16.0 METRES



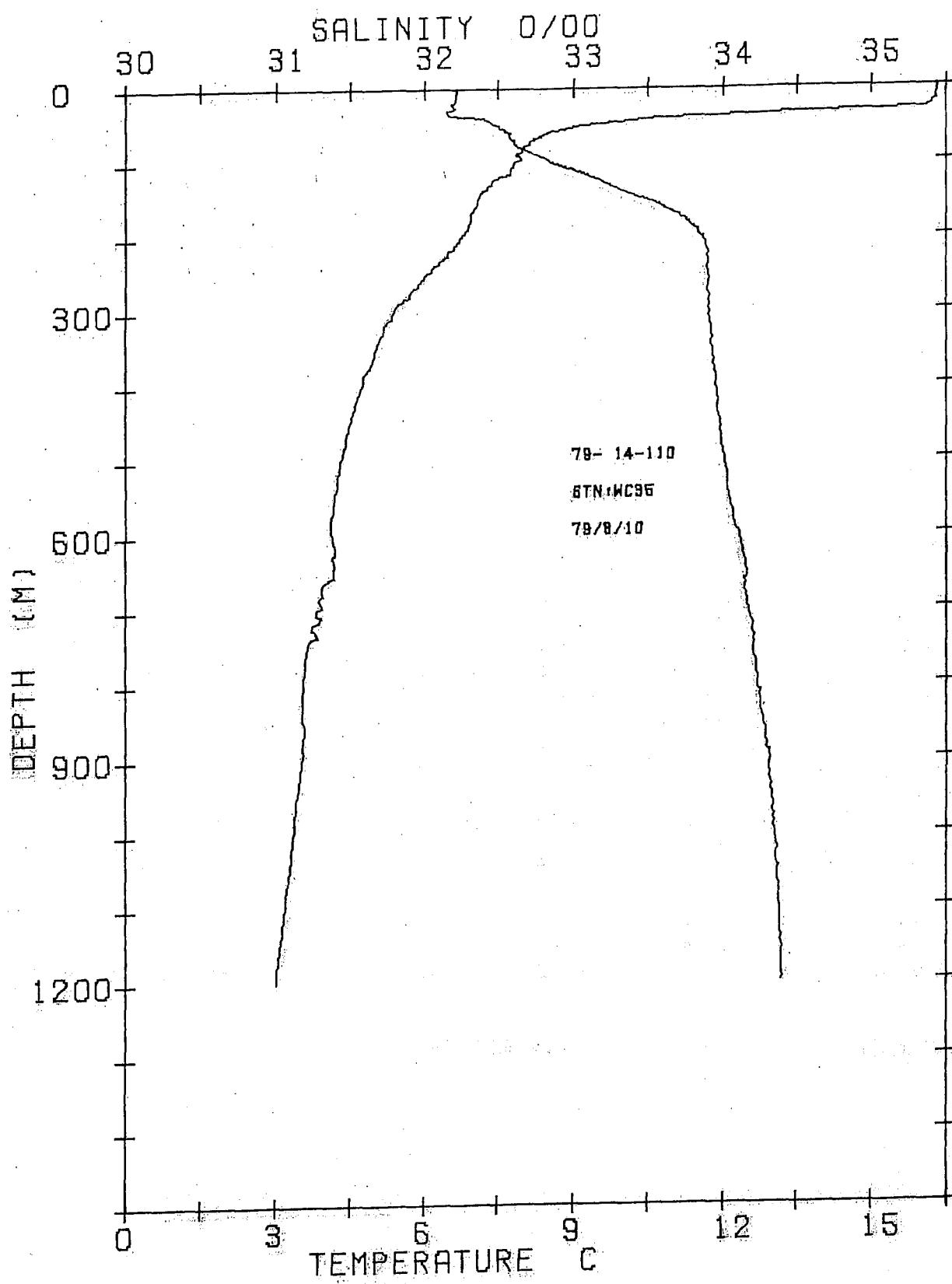
CRUISE : C.O.D.E. 79-14.
 STATION: WC33 CONS #109
 LAT N 49 23.5 LONG W 127 55.0
 DATE 79/08/09 TIME (PST) 2333

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
0	15.93	31.93	23.43	446.3	.00	.00	1506.6
10	15.92	31.94	23.44	446.0	.45	.02	1506.7
20	15.92	31.93	23.43	446.8	.89	.09	1506.9
30	15.86	32.01	23.51	439.8	1.34	.20	1506.9
50	10.61	32.51	24.93	304.2	2.06	.48	1490.2
75	8.24	32.61	25.39	260.6	2.75	.91	1482.0
100	7.77	32.81	25.61	239.9	3.38	1.46	1480.8
125	7.29	33.21	25.99	204.2	3.93	2.09	1479.9
150	6.99	33.60	26.34	171.1	4.40	2.72	1479.6
175	6.88	33.78	26.50	156.9	4.81	3.39	1479.8
200	6.72	33.88	26.60	147.3	5.19	4.10	1479.7
225	6.44	33.89	26.64	143.6	5.55	4.87	1479.0
250	6.15	33.90	26.69	139.2	5.90	5.71	1478.3
300	5.58	33.91	26.77	132.4	6.58	7.57	1476.8
400	4.69	33.96	26.91	119.3	7.84	11.96	1474.9
500	4.67	34.08	27.01	110.9	8.98	17.09	1476.6
600	4.29	34.16	27.11	101.5	10.04	22.91	1476.8
800	3.60	34.24	27.25	89.4	11.95	36.25	1477.2
1000	3.37	34.35	27.36	80.0	13.64	51.47	1479.7
1200	2.97	34.40	27.43	73.2	15.17	68.23	1481.4

DEEPEST MEASUREMENT :

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
1200.0	2.97	34.40	27.43	73.2	15.17	68.23	1481.4

WIND MIXED LAYER DEPTH = 27.4 METRES



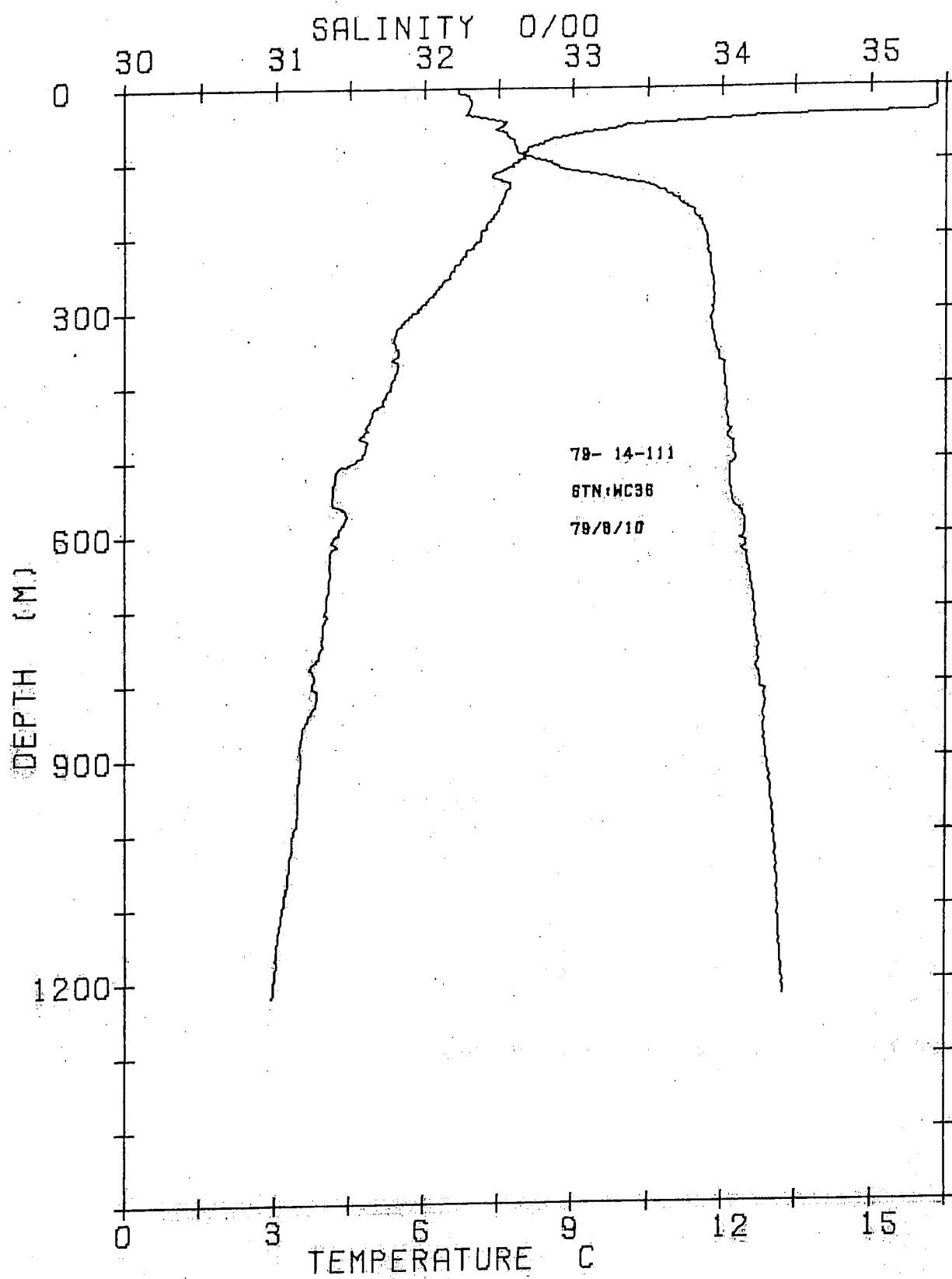
CRUISE : C.O.D.E. 79-14.
 STATION: WC35 CONS #110
 LAT N 49 12.0 LONG W 128 12.5
 DATE 79/08/10 TIME (PST) 0134

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
0	16.30	32.21	23.57	433.4	.00	.00	1508.1
10	16.31	32.21	23.56	434.0	.43	.02	1508.2
20	16.29	32.18	23.54	436.0	.87	.09	1508.3
30	16.10	32.15	23.56	434.9	1.30	.20	1507.9
50	9.19	32.50	25.16	282.6	1.97	.46	1485.0
75	8.10	32.62	25.42	258.1	2.64	.87	1481.4
100	7.81	32.85	25.64	237.8	3.26	1.41	1481.0
125	7.40	33.19	25.97	206.5	3.81	2.04	1480.3
150	7.08	33.49	26.24	181.0	4.30	2.70	1479.8
175	6.93	33.75	26.47	159.4	4.72	3.39	1480.0
200	6.74	33.86	26.58	149.0	5.11	4.11	1479.8
225	6.45	33.89	26.64	143.5	5.47	4.89	1479.1
250	6.04	33.90	26.70	138.0	5.83	5.72	1477.9
300	5.36	33.91	26.79	129.7	6.50	7.56	1475.9
400	4.73	33.95	26.90	120.3	7.74	11.92	1475.0
500	4.32	34.01	26.99	112.1	8.90	17.14	1475.1
600	4.13	34.11	27.09	103.7	9.99	23.10	1476.0
800	3.57	34.23	27.24	90.1	11.93	36.60	1477.1
1000	3.36	34.35	27.36	80.0	13.62	51.81	1479.6
1200	3.02	34.40	27.43	73.6	15.15	68.61	1481.6

DEEPEST MEASUREMENT :

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
1200.1	3.02	34.40	27.43	73.6	15.15	68.62	1481.6

WIND MIXED LAYER DEPTH = 29.3 METRES



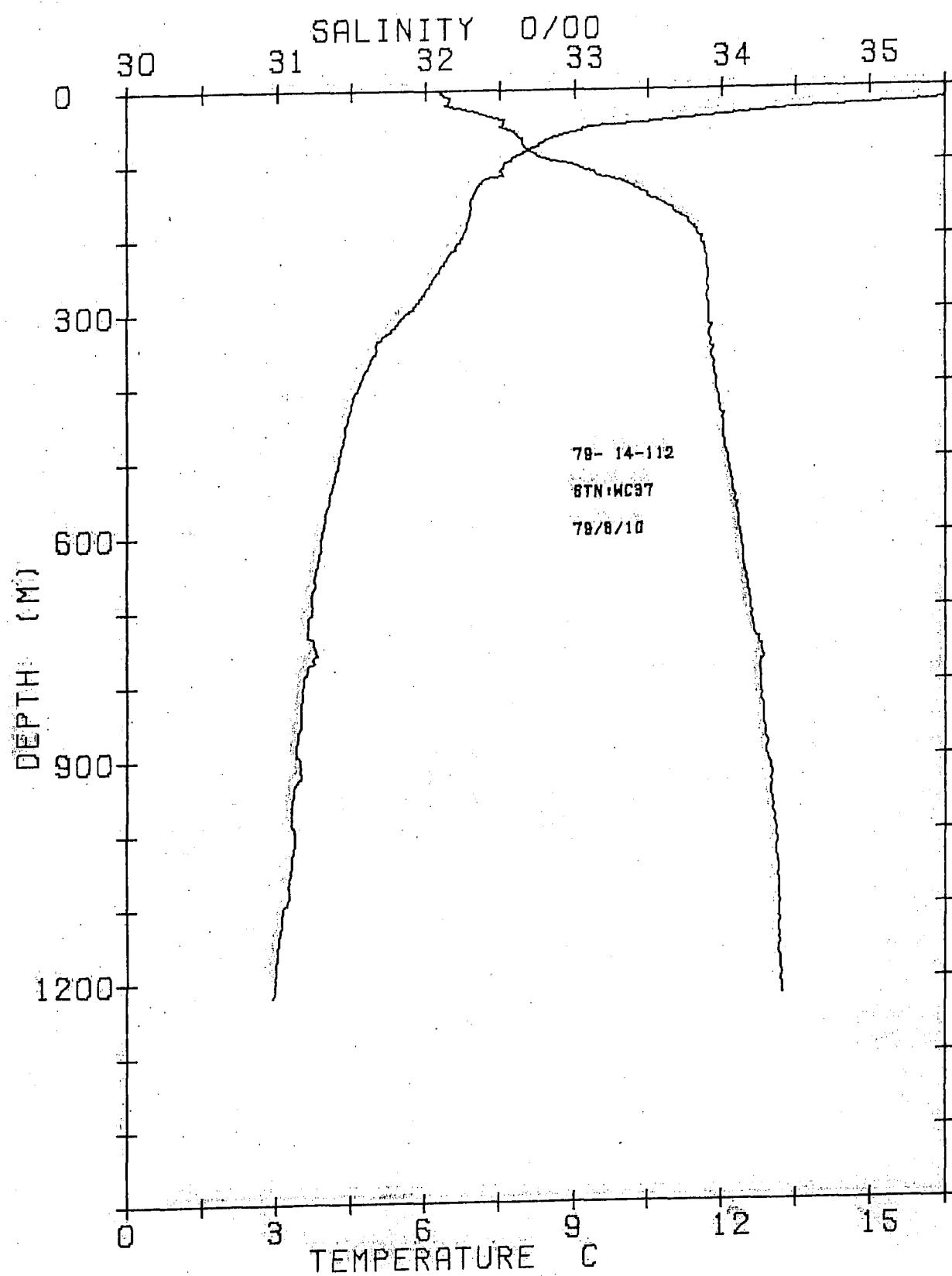
CRUISE : C.O.D.E. 79-14.
 STATION: WC36 CONS #111
 LAT N 49 06.5 LONG W 128 21.0
 DATE 79/08/10 TIME (PST) 0338

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
0	16.30	32.22	23.57	432.8	.00	.00	1508.1
10	16.29	32.29	23.63	427.8	.43	.02	1508.3
20	16.29	32.31	23.64	427.0	.86	.09	1508.5
30	16.29	32.29	23.62	428.9	1.29	.19	1508.6
50	10.12	32.53	25.03	294.8	2.02	.48	1488.5
75	8.40	32.61	25.36	263.6	2.71	.91	1482.6
100	7.90	32.85	25.62	238.9	3.35	1.46	1481.4
125	7.59	33.38	26.09	195.1	3.89	2.07	1481.3
150	7.58	33.70	26.34	171.6	4.34	2.70	1482.1
175	7.37	33.84	26.48	159.1	4.76	3.37	1481.8
200	7.13	33.90	26.56	151.4	5.14	4.09	1481.4
225	6.82	33.92	26.62	146.4	5.52	4.88	1480.6
250	6.52	33.93	26.67	141.7	5.88	5.74	1479.8
300	5.85	33.94	26.76	133.5	6.56	7.63	1477.9
400	5.34	34.02	26.89	122.0	7.83	12.07	1477.6
500	4.65	34.09	27.02	110.0	9.00	17.28	1476.5
600	4.26	34.15	27.11	102.1	10.06	23.12	1476.6
800	3.74	34.26	27.25	89.5	11.97	36.44	1477.9
1000	3.35	34.35	27.36	79.9	13.66	51.63	1479.6
1200	2.98	34.42	27.45	72.3	15.18	68.31	1481.5

DEEPEST MEASUREMENT :

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
1220.1	2.95	34.42	27.45	71.9	15.32	70.07	1481.6

WIND MIXED LAYER DEPTH = 33.2 METRES



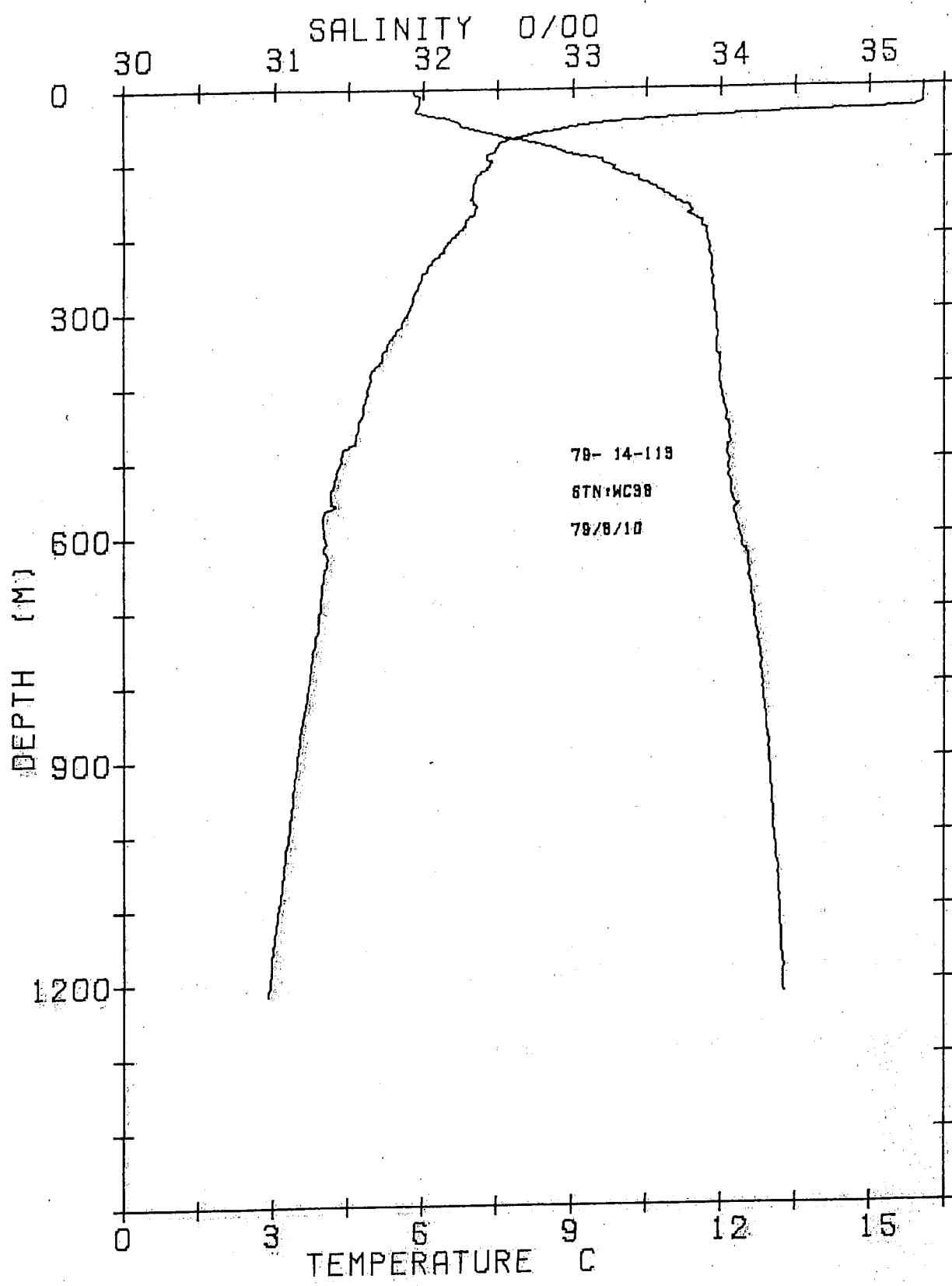
CRUISE : C.O.D.E. 79-14.
 STATION: WC37 CONS #112
 LAT N 49 12.5 LONG W 128 29.0
 DATE 79/08/10 TIME (PST) 0625

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
0	16.48	32.09	23.42	446.8	.00	.00	1508.5
10	16.49	32.16	23.48	442.2	.44	.02	1508.7
20	16.32	32.13	23.49	440.9	.89	.09	1508.3
30	13.12	32.35	24.34	360.1	1.28	.19	1498.4
50	9.26	32.51	25.15	283.3	1.91	.44	1485.3
75	8.24	32.66	25.43	257.2	2.58	.85	1482.0
100	7.61	32.98	25.77	224.8	3.19	1.39	1480.4
125	7.14	33.36	26.13	190.9	3.72	1.97	1479.5
150	6.91	33.57	26.33	172.5	4.17	2.60	1479.3
175	6.88	33.77	26.49	157.6	4.59	3.27	1479.8
200	6.74	33.86	26.58	149.7	4.97	3.99	1479.8
225	6.46	33.90	26.65	143.2	5.34	4.76	1479.1
250	6.20	33.91	26.69	139.7	5.69	5.60	1478.5
300	5.65	33.91	26.76	133.3	6.37	7.48	1477.1
400	4.66	33.96	26.91	119.1	7.62	11.84	1474.7
500	4.25	34.04	27.02	109.2	8.76	16.94	1474.8
600	3.92	34.12	27.12	100.2	9.80	22.68	1475.1
800	3.56	34.26	27.27	87.6	11.67	35.75	1477.1
1000	3.40	34.37	27.37	79.1	13.34	50.67	1479.9
1200	2.99	34.40	27.44	73.2	14.85	67.32	1481.5

DEEPEST MEASUREMENT :

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
1220.1	2.95	34.41	27.44	72.4	15.00	69.09	1481.6

WIND MIXED LAYER DEPTH = 16.5 METRES



CRUISE : C.O.D.E. 79-14.
 STATION: WC38 CONS #113
 LAT N 49 18.5 LONG W 128 36.5
 DATE 79/08/10 TIME (PST) 0834

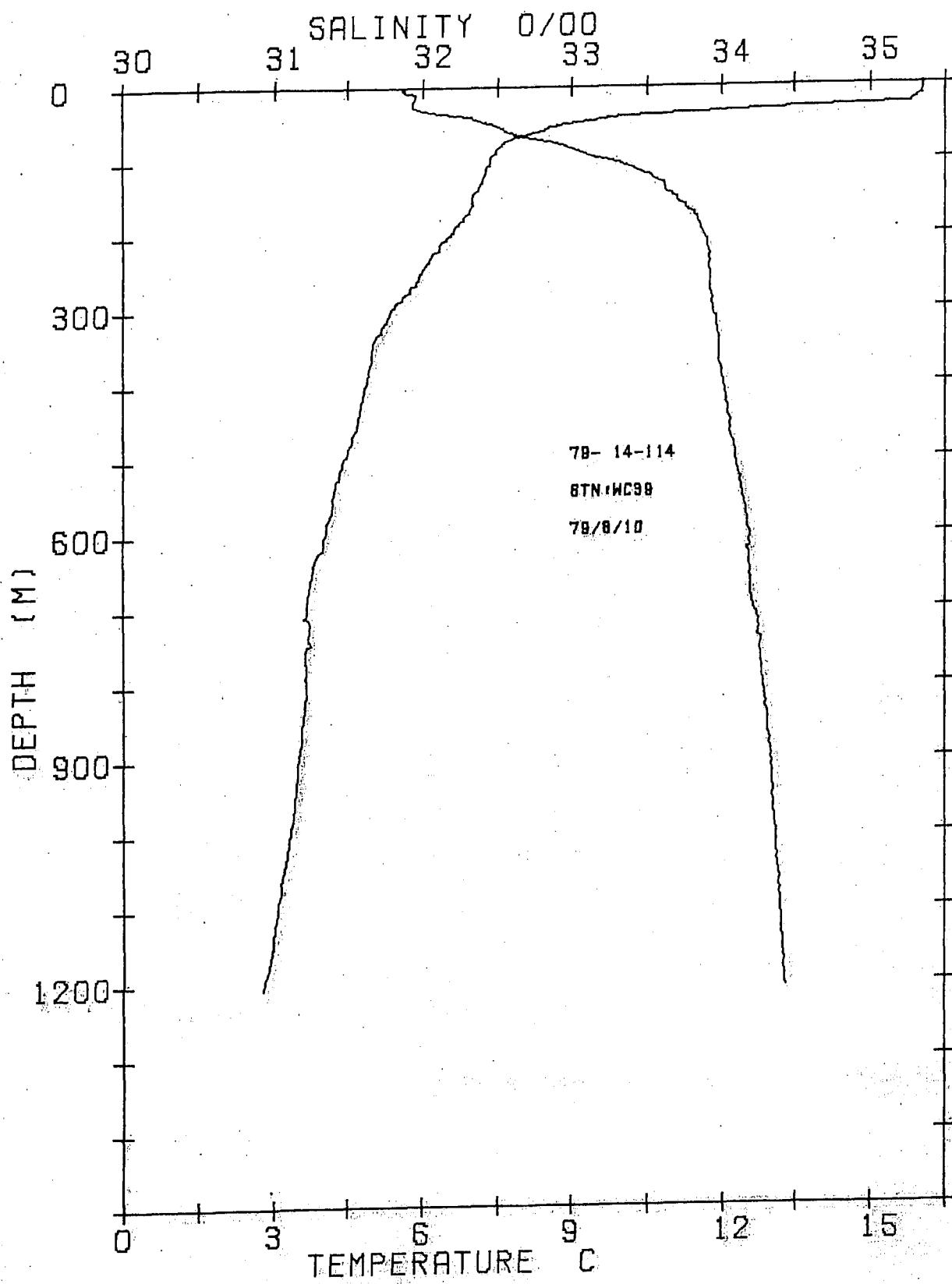
DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT. EN	SOUND
0	16.07	31.93	23.40	449.5	.00	.00	1507.0
10	16.07	31.97	23.43	446.9	.45	.02	1507.2
20	16.06	31.97	23.43	446.7	.90	.09	1507.3
30	15.91	31.94	23.44	446.2	1.34	.20	1507.0
50	9.18	32.25	24.96	301.2	2.04	.48	1484.6
75	7.52	32.80	25.64	236.9	2.71	.89	1479.4
100	7.39	33.20	25.97	205.8	3.26	1.37	1479.8
125	7.06	33.46	26.22	182.3	3.74	1.91	1479.3
150	6.97	33.69	26.41	164.5	4.17	2.50	1479.6
175	6.90	33.84	26.54	152.7	4.57	3.15	1480.0
200	6.63	33.91	26.63	144.4	4.94	3.84	1479.4
225	6.30	33.93	26.69	138.9	5.30	4.59	1478.5
250	5.99	33.94	26.74	134.6	5.64	5.40	1477.7
300	5.71	33.96	26.79	130.3	6.30	7.22	1477.4
400	4.89	34.00	26.92	118.7	7.53	11.54	1475.7
500	4.37	34.06	27.02	109.3	8.67	16.64	1475.3
600	4.02	34.13	27.12	100.8	9.72	22.42	1475.6
800	3.73	34.28	27.27	87.9	11.61	35.57	1477.8
1000	3.31	34.36	27.37	78.9	13.27	50.50	1479.4
1200	2.94	34.42	27.45	71.3	14.76	66.87	1481.3

DEEPEST MEASUREMENT :

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT. EN	SOUND
1215.0	2.92	34.43	27.46	70.8	14.87	68.16	1481.4

WIND MIXED LAYER DEPTH = 28.2 METRES

180



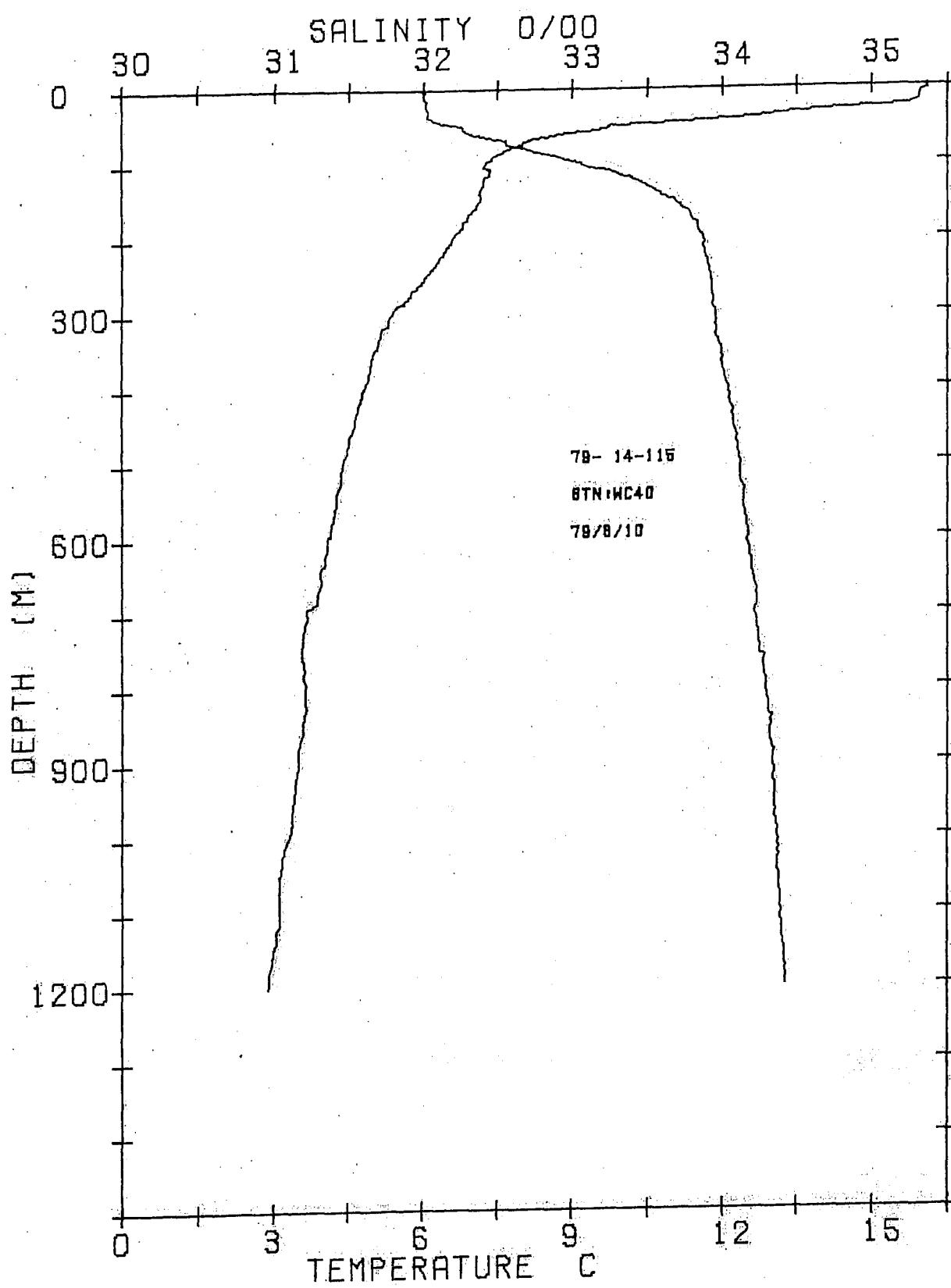
CRUISE : C.O.D.E. 79-14.
 STATION: WC39 CONS #114
 LAT N 49 25.0 LONG W 128 44.5
 DATE 79/08/10 TIME (PST) 1050

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
0	16.05	31.86	23.35	454.3	.00	.00	1506.8
10	16.04	31.94	23.42	448.0	.45	.02	1507.1
20	15.90	31.93	23.44	446.0	.90	.09	1506.8
30	13.78	31.96	23.91	401.6	1.33	.20	1500.2
50	8.91	32.45	25.16	282.3	1.98	.45	1483.9
75	7.61	32.89	25.70	231.1	2.63	.85	1479.9
100	7.31	33.26	26.03	199.9	3.17	1.33	1479.6
125	7.19	33.56	26.29	176.2	3.64	1.85	1479.9
150	6.98	33.69	26.41	164.4	4.06	2.43	1479.7
175	6.82	33.83	26.54	152.5	4.46	3.08	1479.6
200	6.55	33.88	26.62	145.2	4.83	3.78	1479.1
225	6.18	33.92	26.70	138.1	5.18	4.53	1478.1
250	5.96	33.92	26.73	135.5	5.53	5.34	1477.6
300	5.38	33.94	26.81	127.7	6.19	7.16	1476.1
400	4.87	34.01	26.93	117.7	7.40	11.40	1475.7
500	4.42	34.09	27.04	107.2	8.53	16.46	1475.6
600	4.05	34.19	27.16	96.9	9.55	22.05	1475.8
800	3.67	34.28	27.27	87.3	11.38	34.86	1477.6
1000	3.33	34.37	27.37	78.6	13.04	49.71	1479.5
1200	2.81	34.43	27.47	69.6	14.51	65.93	1480.7

DEEPEST MEASUREMENT :

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
1205.1	2.80	34.44	27.48	68.7	14.55	66.36	1480.8

WIND MIXED LAYER DEPTH = 24.3 METRES



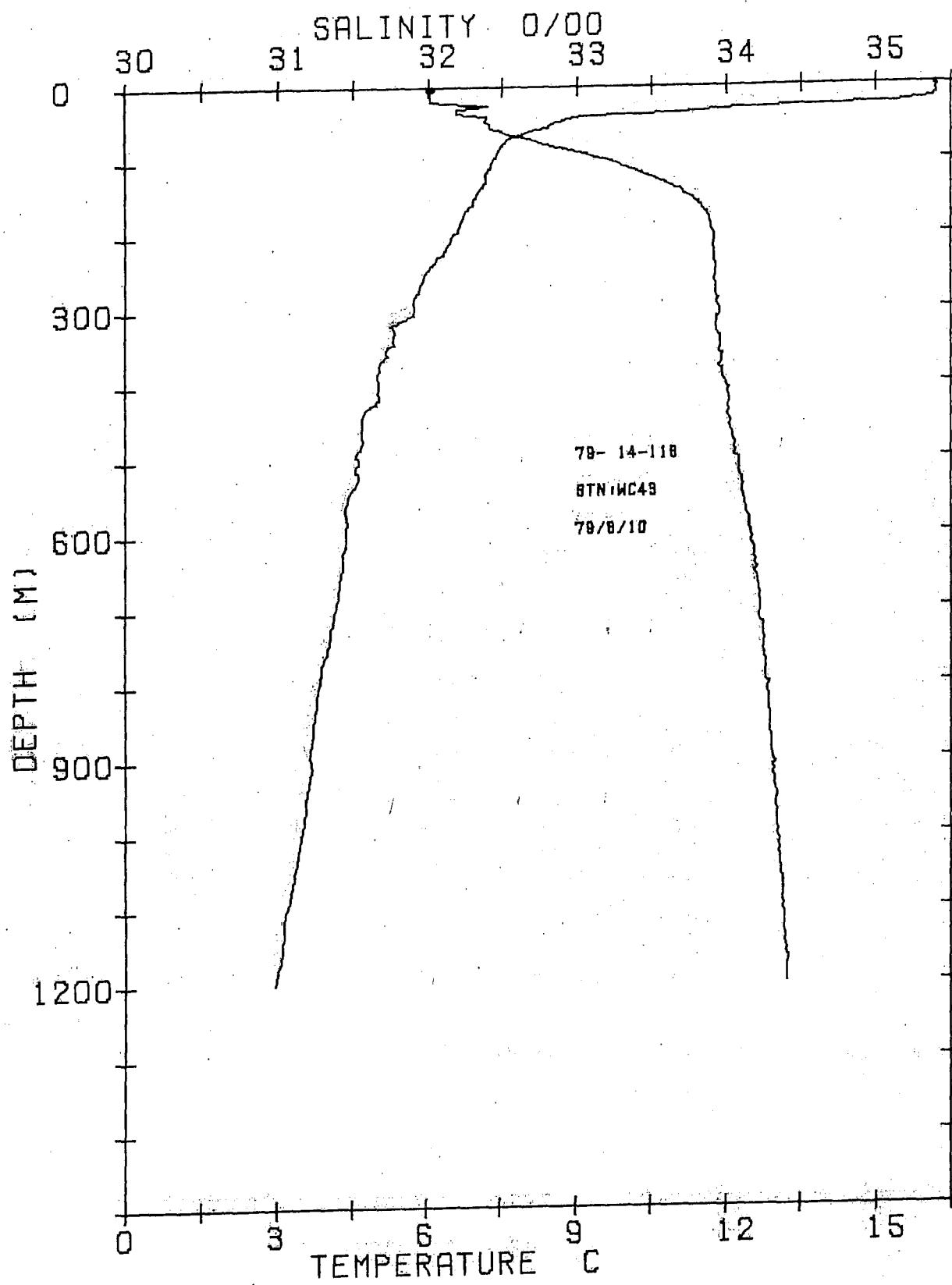
CRUISE : C.O.D.E. 79-14.
 STATION: WC40 CONS #115
 LAT N 49 31.5 LONG W 128 52.5
 DATE 79/08/10 TIME (PST) 1313

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
0	16.07	32.00	23.45	444.4	.00	.00	1507.1
10	15.95	32.00	23.48	442.0	.44	.02	1506.9
20	15.93	32.01	23.49	441.1	.88	.09	1507.0
30	14.47	32.03	23.82	409.6	1.32	.20	1502.5
50	9.81	32.26	24.87	309.6	2.05	.48	1487.0
75	7.99	32.56	25.39	261.1	2.76	.93	1480.9
100	7.26	33.05	25.87	215.3	3.35	1.44	1479.1
125	7.21	33.46	26.20	184.3	3.85	2.00	1479.9
150	7.13	33.68	26.38	167.3	4.29	2.60	1480.3
175	6.86	33.80	26.52	155.0	4.69	3.25	1479.8
200	6.61	33.87	26.60	147.0	5.06	3.96	1479.3
225	6.35	33.89	26.66	142.0	5.43	4.73	1478.7
250	6.05	33.92	26.72	136.9	5.78	5.56	1477.9
300	5.38	33.95	26.82	127.0	6.43	7.37	1476.1
400	4.81	34.04	26.96	114.9	7.64	11.58	1475.5
500	4.39	34.12	27.07	104.8	8.74	16.52	1475.5
600	4.09	34.17	27.14	98.5	9.76	22.13	1475.9
800	3.64	34.29	27.28	86.4	11.59	34.90	1477.5
1000	3.31	34.37	27.38	78.0	13.23	49.64	1479.5
1200	2.89	34.43	27.46	70.2	14.72	65.95	1481.1

DEEPEST MEASUREMENT :

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
1200.0	2.89	34.43	27.46	70.2	14.72	65.95	1481.1

WIND MIXED LAYER DEPTH = 23.6 METRES



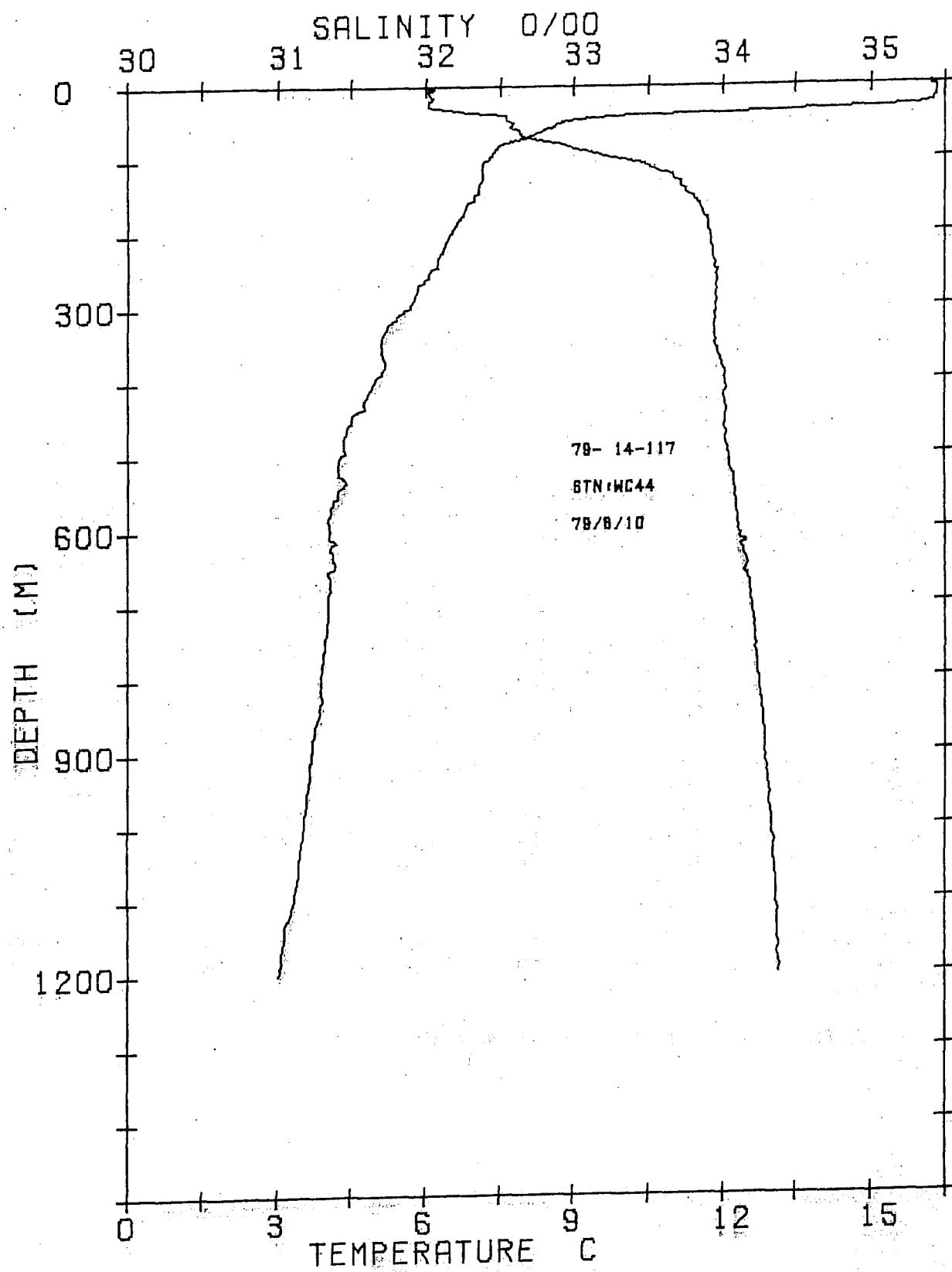
CRUISE : C.O.D.E. 79-14.
 STATION: WC43 CONS #116
 LAT N 49 47.0 LONG W 128 28.5
 DATE 79/08/10 TIME (PST) 1609

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
0	16.20	31.98	23.41	448.4	.00	.00	1507.5
10	16.16	32.00	23.44	446.1	.45	.02	1507.5
20	16.15	32.01	23.44	445.6	.89	.09	1507.7
30	12.38	32.19	24.36	357.9	1.29	.19	1495.7
50	8.51	32.41	25.19	279.1	1.91	.43	1482.3
75	7.56	32.76	25.60	240.5	2.56	.84	1479.5
100	7.33	33.24	26.01	201.9	3.12	1.32	1479.7
125	7.18	33.54	26.27	178.2	3.59	1.85	1479.9
150	6.96	33.78	26.49	157.5	4.01	2.43	1479.7
175	6.73	33.89	26.60	146.8	4.39	3.04	1479.4
200	6.52	33.92	26.66	142.1	4.75	3.72	1479.0
225	6.31	33.92	26.69	139.4	5.10	4.47	1478.6
250	5.97	33.93	26.74	135.0	5.45	5.28	1477.6
300	5.72	33.95	26.79	130.6	6.11	7.11	1477.4
400	5.00	34.00	26.91	119.4	7.36	11.47	1476.2
500	4.62	34.08	27.01	110.4	8.51	16.65	1476.4
600	4.38	34.16	27.10	102.7	9.58	22.50	1477.1
800	3.86	34.28	27.26	89.2	11.51	35.96	1478.4
1000	3.52	34.35	27.34	82.2	13.23	51.44	1480.3
1200	2.97	34.41	27.44	72.6	14.77	68.31	1481.4

DEEPEST MEASUREMENT :

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
1200.0	2.97	34.41	27.44	72.6	14.77	68.32	1481.4

WIND MIXED LAYER DEPTH = 21.6 METRES



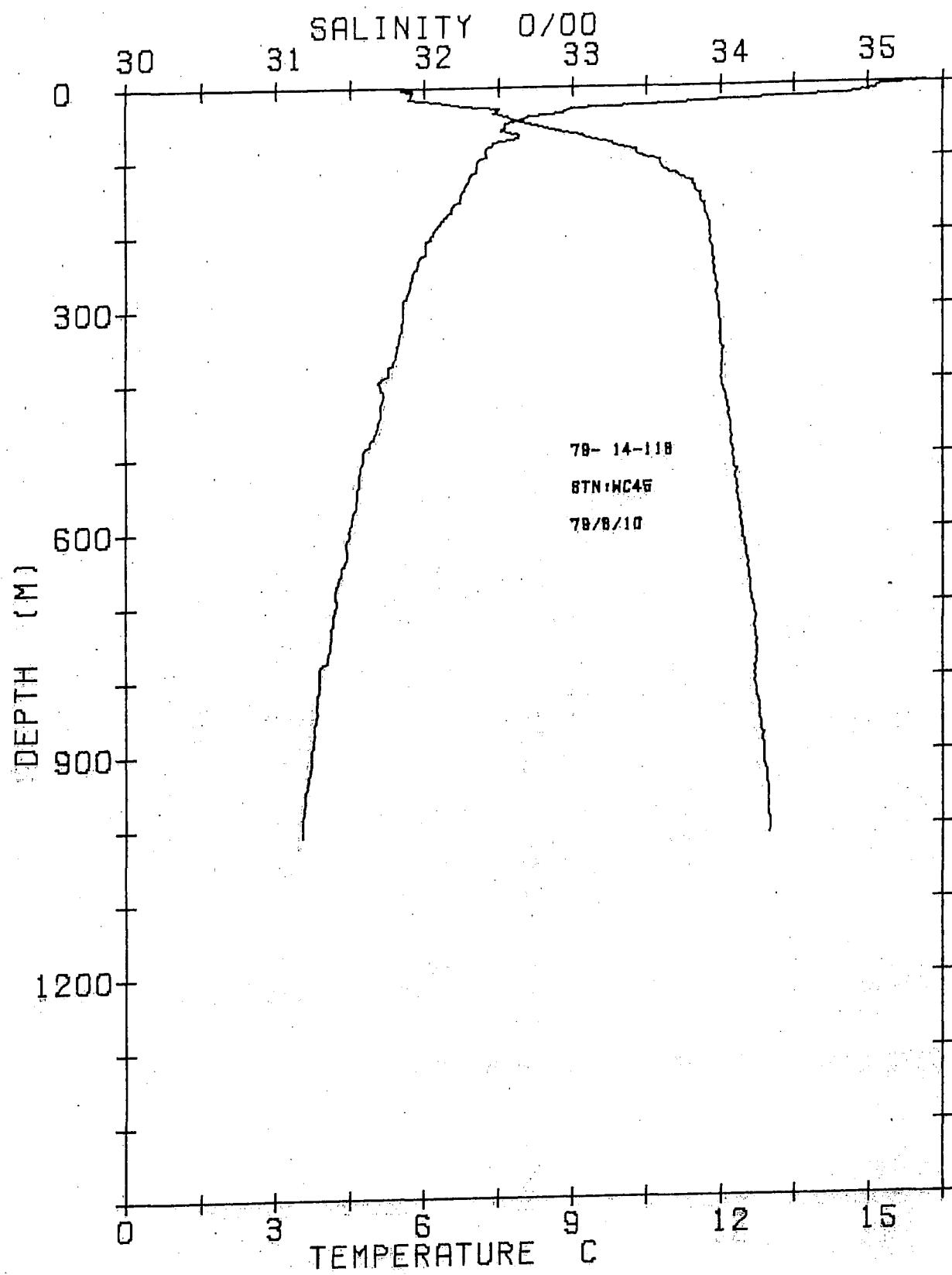
CRUISE : C.O.D.E. 79-14.
 STATION: WC44 CONS #117
 LAT N 49 51.5 LONG W 128 20.5
 DATE 79/08/10 TIME (PST) 1835

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
0	16.20	32.02	23.43	445.9	.00	.00	1507.5
10	16.32	32.02	23.41	448.4	.45	.02	1508.1
20	16.32	32.02	23.41	448.6	.89	.09	1508.2
30	15.97	32.04	23.51	439.7	1.34	.20	1507.3
50	8.72	32.57	25.29	270.1	1.99	.45	1483.3
75	7.72	32.81	25.62	238.8	2.64	.86	1480.2
100	7.26	33.33	26.09	194.2	3.18	1.33	1479.5
125	7.14	33.67	26.38	167.5	3.62	1.83	1479.9
150	6.97	33.80	26.50	156.1	4.03	2.38	1479.8
175	6.75	33.87	26.59	148.2	4.41	3.00	1479.4
200	6.52	33.91	26.65	142.8	4.77	3.68	1479.0
225	6.32	33.93	26.69	139.2	5.12	4.43	1478.6
250	6.10	33.96	26.74	134.6	5.47	5.24	1478.2
300	5.66	33.95	26.79	129.8	6.13	7.06	1477.2
400	4.99	34.01	26.91	119.0	7.37	11.41	1476.2
500	4.31	34.03	27.01	110.1	8.52	16.54	1475.0
600	4.07	34.10	27.09	103.1	9.58	22.38	1475.7
800	3.91	34.25	27.22	92.6	11.53	35.98	1478.6
1000	3.56	34.34	27.33	83.1	13.28	51.74	1480.5
1200	3.04	34.39	27.42	74.9	14.85	69.02	1481.7

DEEPEST MEASUREMENT :

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
1200.1	3.04	34.39	27.42	74.9	14.85	69.03	1481.7

WIND MIXED LAYER DEPTH = 29.8 METRES



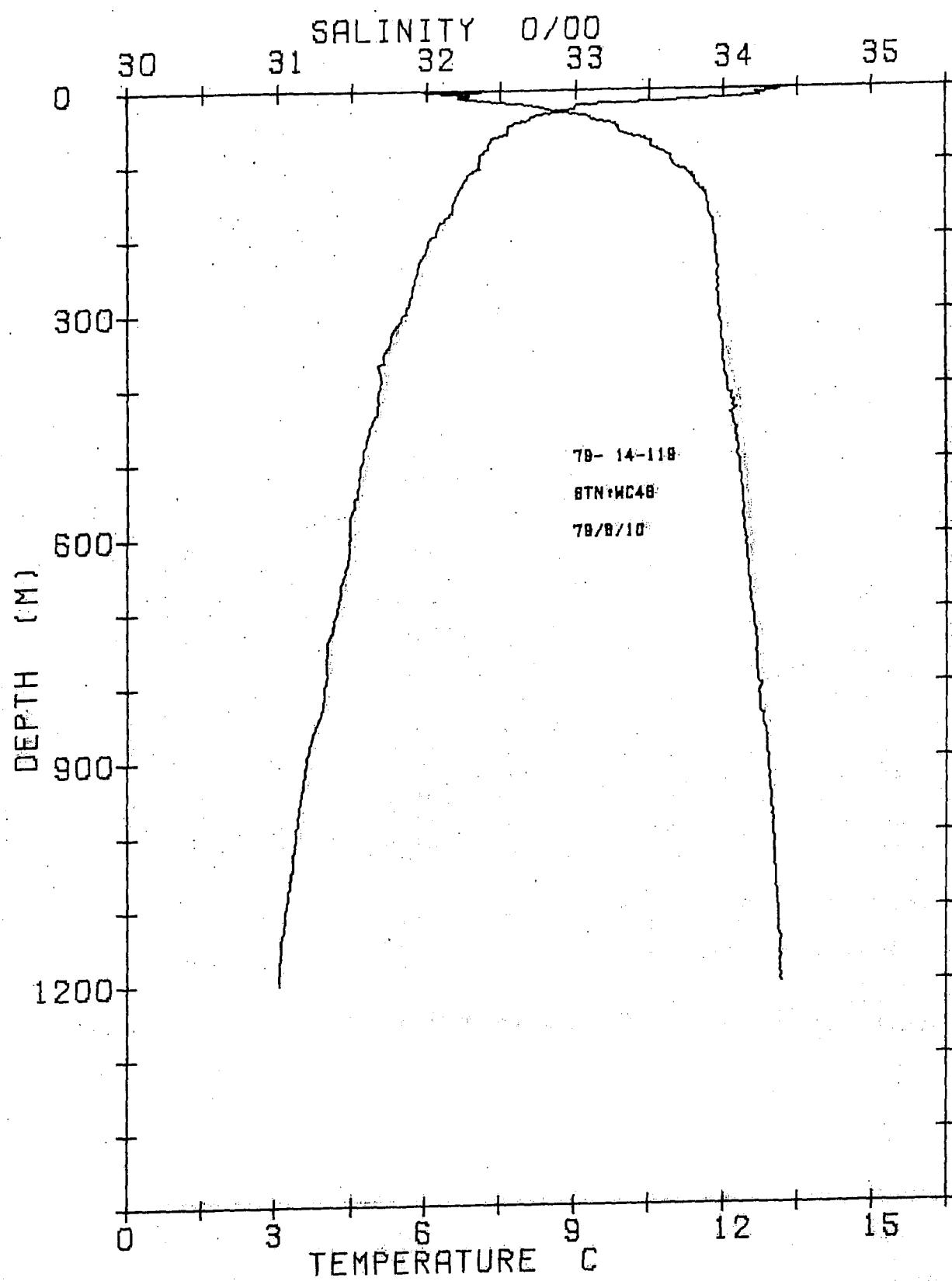
CRUISE : C.O.D.E. 79-14.
 STATION: WC45 CONS #118
 LAT N 49 57.0 LONG W 128 12.5
 DATE 79/08/10 TIME (PST) 2124

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
0	16.16	31.86	23.33	455.8	.00	.00	1507.2
10	15.14	31.91	23.59	431.4	.44	.02	1504.2
20	12.31	32.08	24.29	365.1	.85	.08	1495.2
30	8.99	32.49	25.18	279.7	1.17	.16	1483.9
50	7.67	32.71	25.55	245.1	1.70	.37	1479.5
75	7.41	33.27	26.03	200.3	2.26	.72	1479.6
100	7.10	33.59	26.32	173.0	2.74	1.13	1479.2
125	6.93	33.76	26.47	158.3	3.15	1.60	1479.2
150	6.74	33.87	26.59	148.1	3.53	2.13	1479.0
175	6.44	33.91	26.66	141.4	3.90	2.71	1478.3
200	6.17	33.93	26.71	136.9	4.24	3.36	1477.6
225	6.02	33.95	26.75	133.7	4.58	4.08	1477.4
250	5.80	33.96	26.78	131.0	4.91	4.86	1477.0
300	5.57	33.99	26.83	126.0	5.55	6.63	1476.9
400	5.08	34.01	26.91	120.0	6.79	10.96	1476.5
500	4.77	34.08	27.00	111.7	7.96	16.20	1477.0
600	4.48	34.15	27.08	104.5	9.04	22.15	1477.5
800	3.91	34.24	27.21	93.3	11.00	35.81	1478.5
1000	3.57	34.34	27.33	83.5	12.75	51.55	1480.5

DEEPEST MEASUREMENT :

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
1010.1	3.57	34.33	27.32	83.8	12.83	52.39	1480.7

WIND MIXED LAYER DEPTH = 11.8 METRES



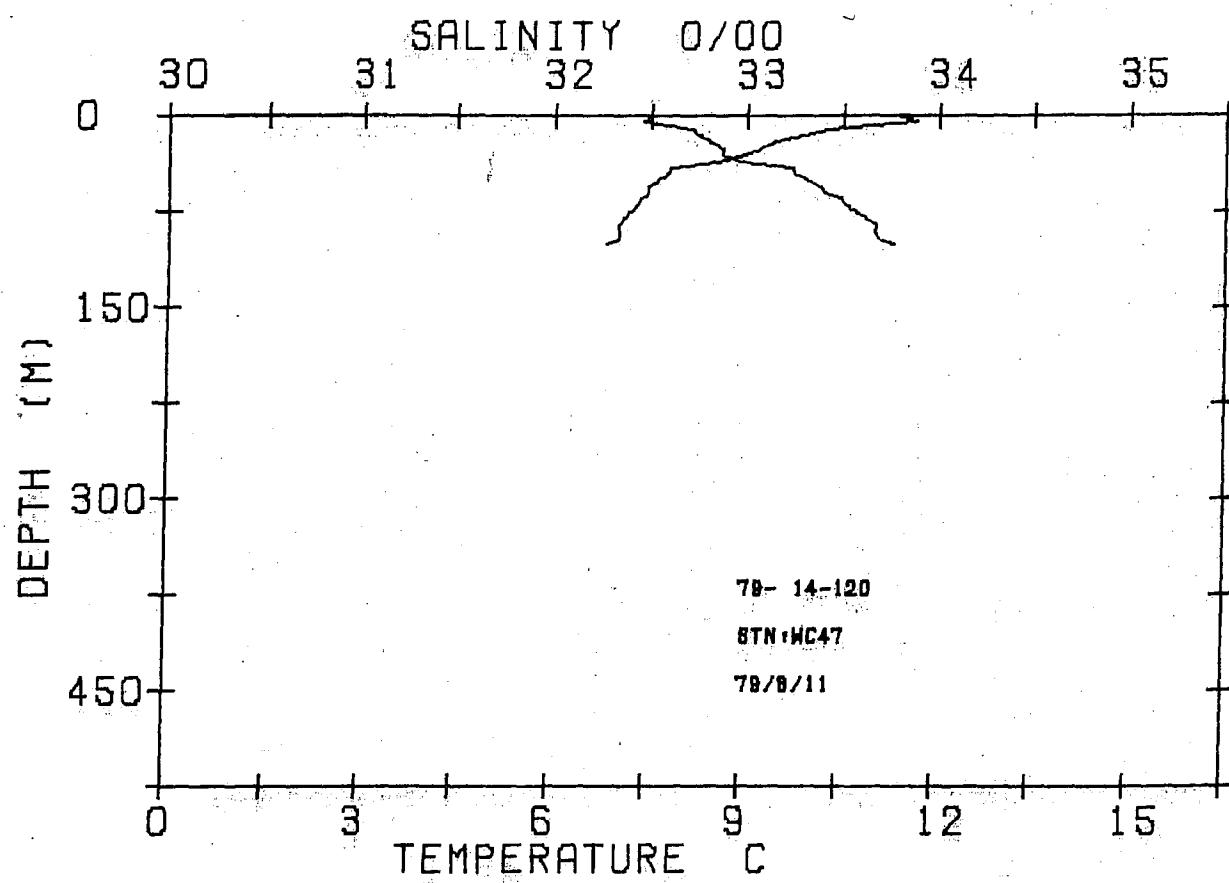
CRUISE : C.O.D.E. 79-14.
 STATION: WC46 CONS #119
 LAT N 50 01.5 LONG W 128 05.5
 DATE 79/08/10 TIME (PST) 2331

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT. EN	SOUND
0	13.36	32.12	24.12	380.7	.00	.00	1498.5
10	12.71	32.21	24.32	362.1	.36	.02	1496.6
20	9.04	32.70	25.34	264.7	.68	.06	1484.2
30	8.59	32.93	25.58	241.7	.93	.13	1483.0
50	7.65	33.29	26.01	201.6	1.36	.30	1480.1
75	7.26	33.51	26.24	180.3	1.84	.60	1479.3
100	7.04	33.66	26.38	167.0	2.27	.97	1479.1
125	6.76	33.81	26.54	152.1	2.67	1.42	1478.6
150	6.56	33.89	26.63	143.6	3.03	1.92	1478.3
175	6.35	33.93	26.68	139.0	3.39	2.50	1477.9
200	6.09	33.95	26.73	134.6	3.73	3.14	1477.3
225	5.92	33.96	26.76	131.9	4.07	3.85	1477.0
250	5.78	33.96	26.78	130.4	4.39	4.62	1476.9
300	5.57	33.98	26.82	127.2	5.04	6.40	1476.9
400	5.06	34.03	26.93	117.9	6.26	10.65	1476.5
500	4.71	34.11	27.02	109.5	7.39	15.75	1476.8
600	4.49	34.15	27.09	104.4	8.46	21.62	1477.6
800	3.98	34.25	27.22	92.7	10.43	35.41	1478.9
1000	3.42	34.34	27.34	81.5	12.17	50.95	1479.9
1200	3.09	34.40	27.42	74.9	13.72	67.99	1481.9

DEEPEST MEASUREMENT :

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT. EN	SOUND
1200.1	3.09	34.40	27.42	74.8	13.72	68.00	1481.9

WIND MIXED LAYER DEPTH = 9.0 METRES

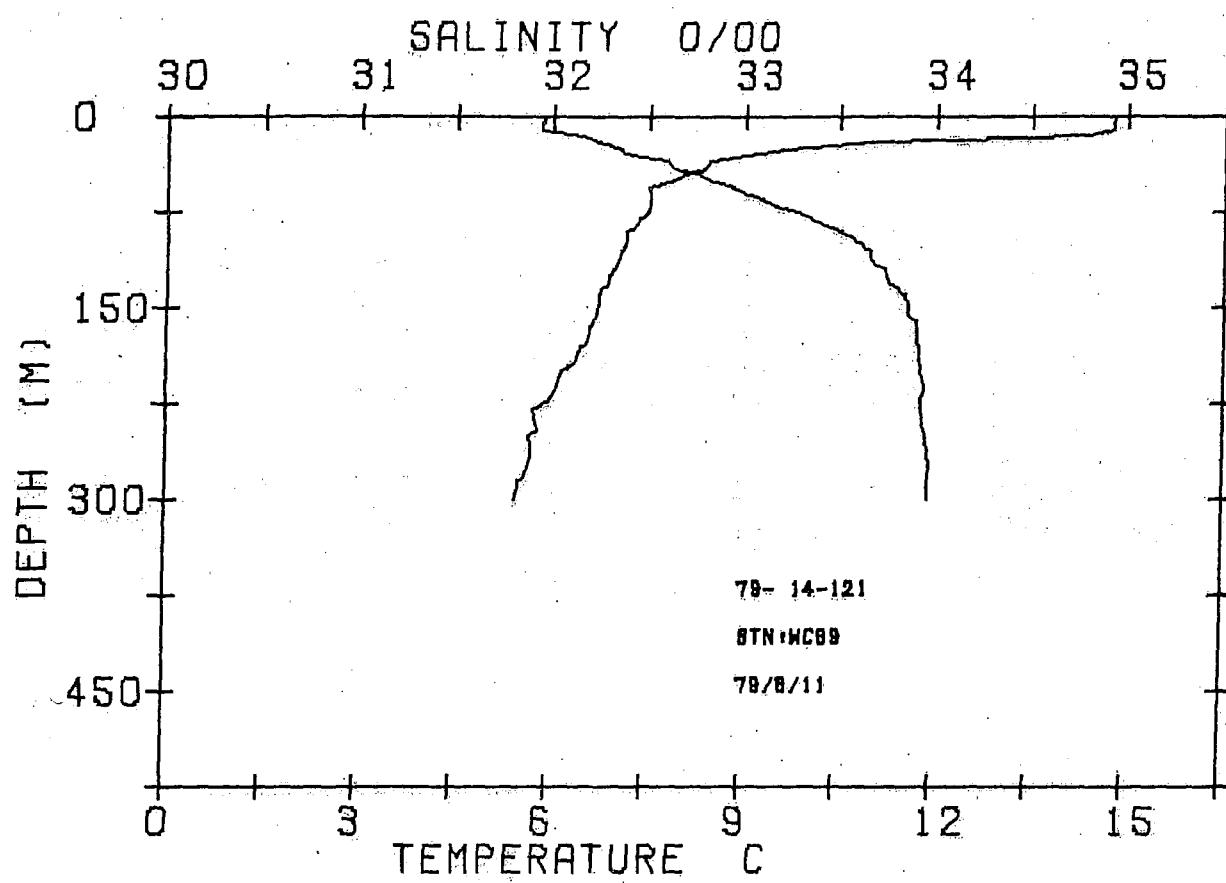


CRUISE : C.O.D.E. 79-14.
 STATION: WC47 CONS #120
 LAT N 50 06.0 LONG W 127 58.0
 DATE 79/08/11 TIME (PST) 0133

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT. EN	SOUND
0	11.36	32.50	24.79	316.9	.00	.00	1492.1
10	10.20	32.72	25.16	281.5	.31	.02	1488.4
20	9.43	32.80	25.36	263.2	.58	.06	1485.8
30	8.95	32.87	25.49	250.9	.84	.12	1484.3
50	7.62	33.31	26.03	199.8	1.28	.29	1480.1
75	7.18	33.57	26.29	174.9	1.75	.58	1479.1
100	6.84	33.77	26.50	155.9	2.16	.94	1478.4

DEEPEST MEASUREMENT :

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT. EN	SOUND
100.0	6.84	33.77	26.50	155.9	2.16	.95	1478.4



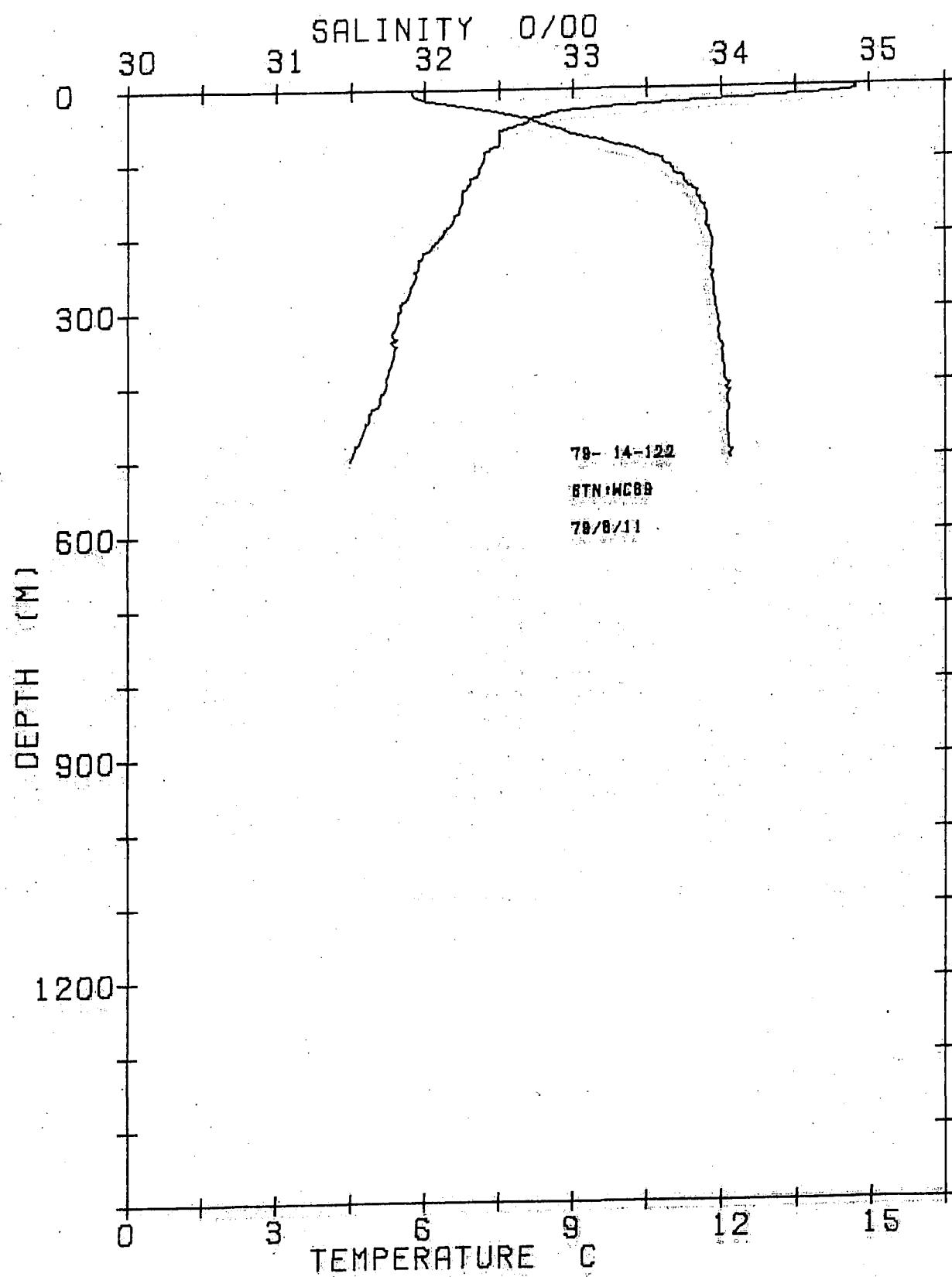
CRUISE : C.O.D.E. 79-14.
 STATION: WC69 CONS #121
 LAT N 50 07.3 LONG W 128 11.8
 DATE 79/08/11 TIME (PST) 0251

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT. EN	SOUND
0	14.80	31.95	23.69	421.7	.00	.00	1503.0
10	14.78	31.94	23.69	422.0	.42	.02	1503.1
20	11.02	32.24	24.65	330.6	.81	.08	1490.9
30	9.02	32.40	25.11	287.1	1.11	.15	1483.9
50	7.90	32.81	25.59	240.9	1.63	.36	1480.5
75	7.48	33.29	26.03	200.1	2.18	.70	1479.9
100	7.13	33.62	26.34	170.6	2.64	1.10	1479.4
125	6.90	33.75	26.48	158.2	3.05	1.56	1479.1
150	6.73	33.86	26.58	148.3	3.43	2.09	1478.9
175	6.57	33.91	26.64	143.3	3.79	2.67	1478.8
200	6.19	33.93	26.71	136.7	4.14	3.33	1477.7
225	5.88	33.93	26.75	133.1	4.48	4.05	1476.8
250	5.68	33.96	26.79	129.3	4.81	4.83	1476.5
300	5.46	33.97	26.83	126.1	5.45	6.58	1476.4

DEEPEST MEASUREMENT :

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT. EN	SOUND
300.1	5.46	33.97	26.83	126.1	5.45	6.59	1476.4

WIND MIXED LAYER DEPTH = 13.5 METRES



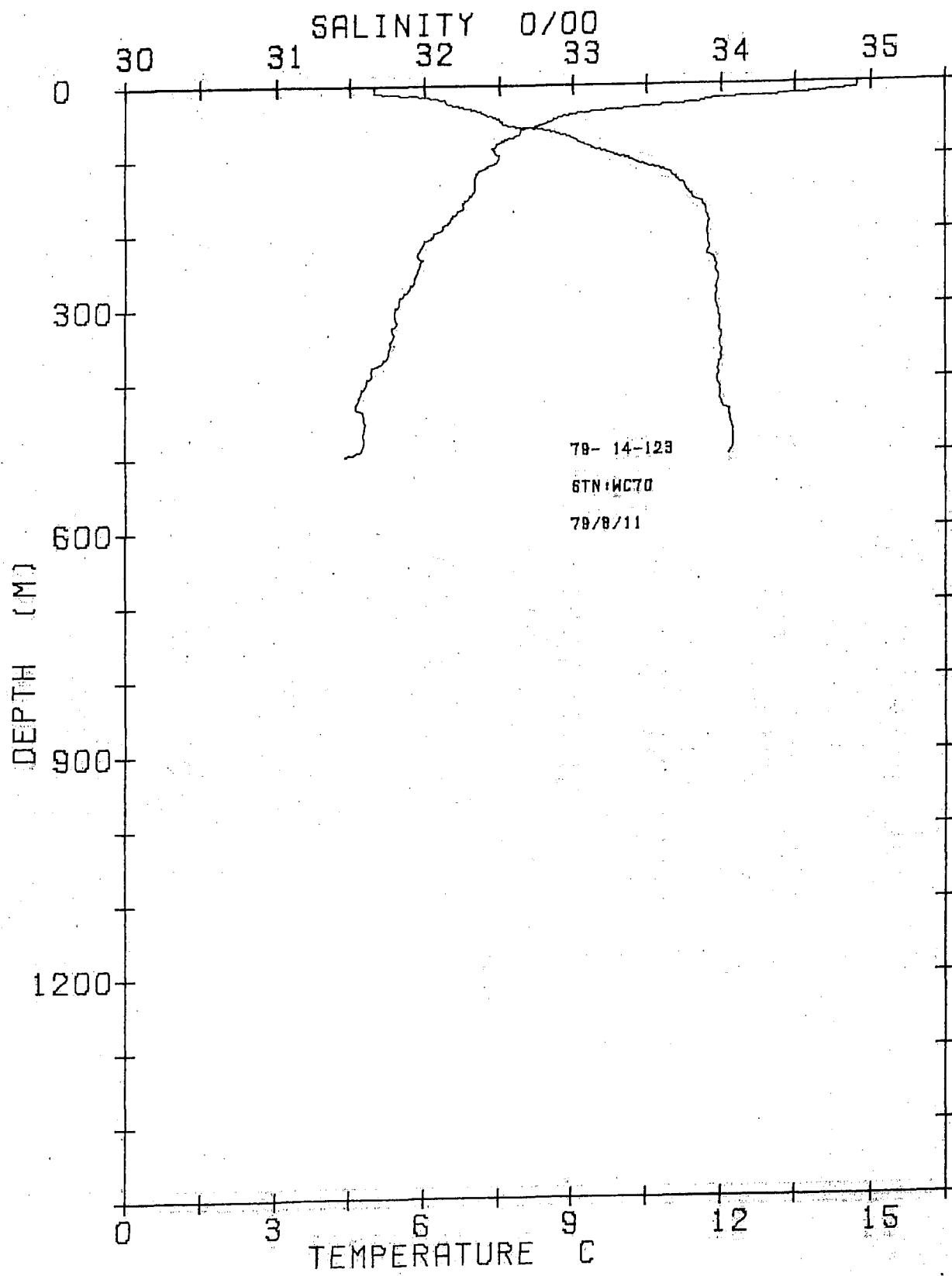
CRUISE : C.O.D.E. 79-14.
 STATION: WC69 CONS #122
 LAT N 50 07.3 LONG W 128 11.8
 DATE 79/08/11 TIME (PST) 0311

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT. EN	SOUND
0	14.68	31.91	23.68	422.1	.00	.00	1502.6
10	14.30	31.94	23.79	412.5	.42	.02	1501.5
20	11.01	32.18	24.61	334.4	.79	.08	1490.8
30	8.73	32.47	25.20	277.7	1.09	.15	1482.9
50	7.80	32.83	25.62	238.3	1.60	.35	1480.1
75	7.49	33.26	26.01	201.9	2.15	.69	1479.9
100	7.14	33.61	26.33	171.4	2.61	1.09	1479.4
125	6.92	33.74	26.46	159.6	3.02	1.55	1479.1
150	6.74	33.85	26.57	149.4	3.40	2.08	1479.0
175	6.58	33.90	26.63	144.1	3.77	2.67	1478.8
200	6.31	33.92	26.69	138.9	4.12	3.34	1478.2
225	5.93	33.93	26.74	134.1	4.46	4.06	1477.0
250	5.81	33.94	26.76	132.4	4.79	4.85	1477.0
300	5.47	33.97	26.83	126.3	5.44	6.63	1476.4
400	5.20	34.05	26.92	118.3	6.67	10.94	1477.1
500	4.47	34.06	27.01	110.5	7.82	16.09	1475.7

DEEPEST MEASUREMENT :

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT. EN	SOUND
500.0	4.47	34.06	27.01	110.5	7.82	16.09	1475.7

WIND MIXED LAYER DEPTH = 7.2 METRES



CRUISE : C.O.D.E. 79-14.
 STATION: WC70 CONS #123
 LAT N 50 09.0 LONG W 128 25.0
 DATE 79/08/11 TIME (PST) 0450

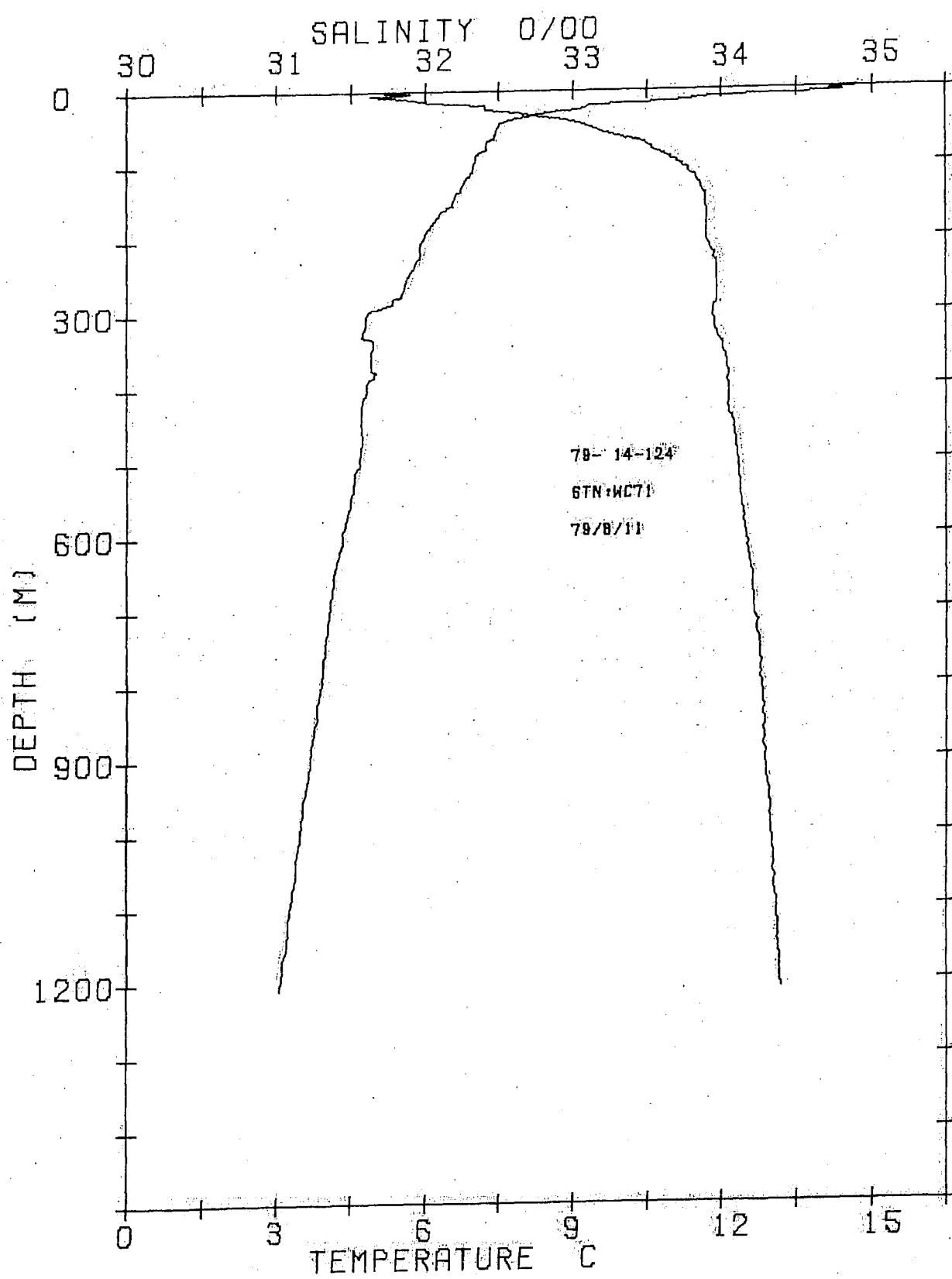
DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
0	14.72	31.67	23.49	440.3	.00	.00	1502.4
10	14.68	31.66	23.49	440.7	.44	.02	1502.4
20	11.82	32.13	24.42	352.3	.84	.08	1493.6
30	10.53	32.25	24.74	321.7	1.18	.16	1489.3
50	8.50	32.51	25.27	272.0	1.75	.39	1482.4
75	7.53	33.02	25.82	220.2	2.36	.77	1479.7
100	7.48	33.38	26.10	193.5	2.88	1.22	1480.4
125	6.99	33.69	26.41	164.4	3.32	1.72	1479.3
150	6.91	33.80	26.51	155.3	3.72	2.27	1479.6
175	6.58	33.90	26.64	143.6	4.09	2.87	1478.8
200	6.20	33.90	26.69	139.0	4.45	3.53	1477.7
225	5.86	33.91	26.73	134.6	4.79	4.25	1476.7
250	5.86	33.96	26.77	131.3	5.12	5.04	1477.2
300	5.42	33.97	26.84	125.6	5.76	6.81	1476.3
400	4.82	33.97	26.91	119.7	6.99	11.11	1475.4
500	4.41	34.05	27.01	110.4	8.13	16.24	1475.5

DEEPEST MEASUREMENT :

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
500.1	4.41	34.05	27.01	110.4	8.13	16.25	1475.5

WIND MIXED LAYER DEPTH = 8.0 METRES

200



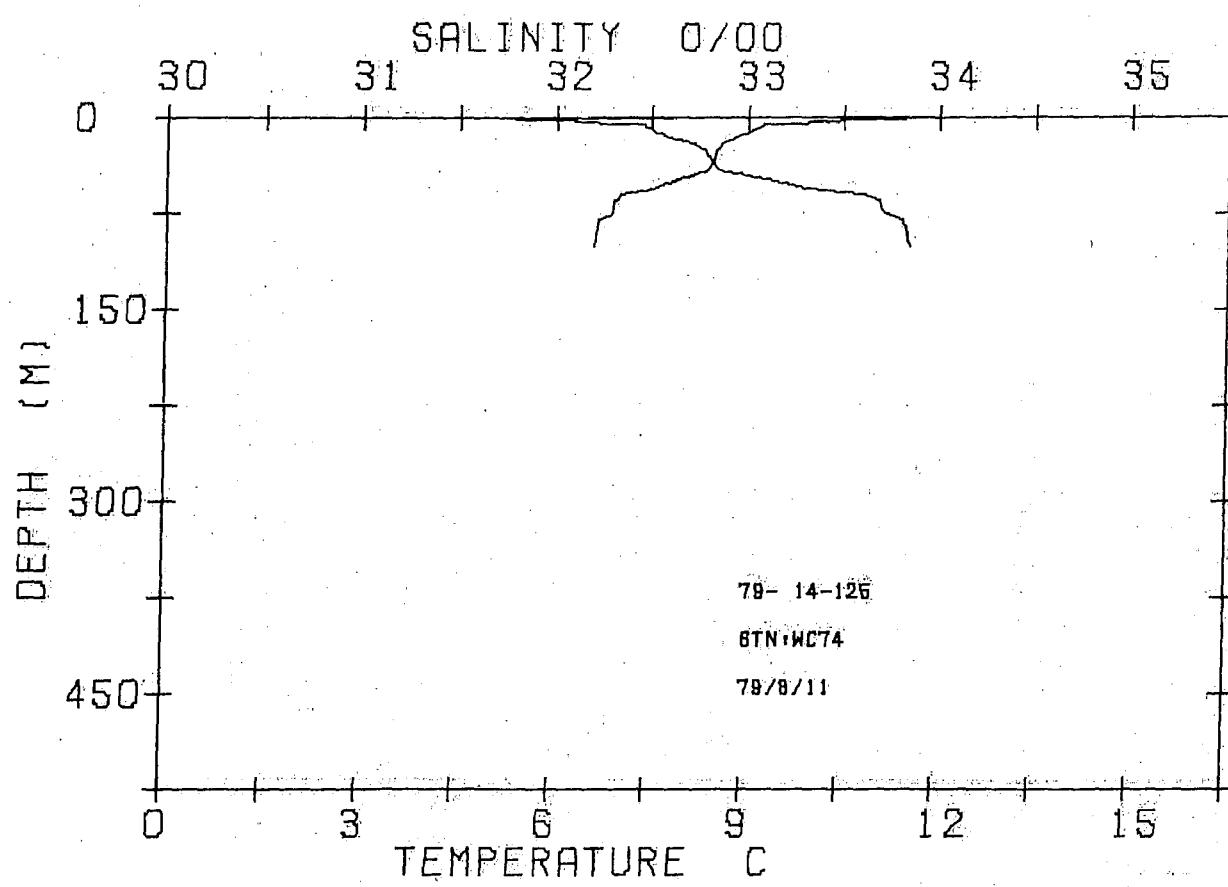
CRUISE : C.O.D.E. 79-14.
 STATION: WC71 CONS #124
 LAT N 50 16.2 LONG W 128 35.0
 DATE 79/08/11 TIME (PST) 0628

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
0	14.69	31.86	23.64	425.9	.00	.00	1502.5
10	11.90	31.86	24.20	373.5	.41	.02	1493.3
20	9.40	32.39	25.04	293.2	.75	.07	1485.2
30	8.49	32.63	25.37	262.2	1.04	.14	1482.2
50	7.49	33.12	25.89	212.4	1.50	.32	1479.3
75	7.24	33.52	26.24	179.7	1.99	.63	1479.3
100	6.99	33.73	26.44	161.0	2.41	1.00	1479.0
125	6.79	33.85	26.57	149.4	2.80	1.43	1478.8
150	6.56	33.89	26.63	144.2	3.17	1.94	1478.3
175	6.20	33.90	26.68	139.0	3.52	2.51	1477.3
200	5.97	33.90	26.72	136.2	3.87	3.16	1476.8
225	5.88	33.94	26.76	132.4	4.20	3.87	1476.9
250	5.66	33.97	26.81	128.2	4.52	4.64	1476.4
300	4.84	33.94	26.88	121.5	5.15	6.36	1473.8
400	4.84	34.05	26.96	114.2	6.32	10.46	1475.6
500	4.67	34.12	27.04	108.3	7.44	15.46	1476.6
600	4.34	34.17	27.12	101.1	8.49	21.24	1477.0
800	3.92	34.27	27.24	90.5	10.40	34.55	1478.6
1000	3.47	34.33	27.33	82.6	12.13	50.15	1480.1
1200	3.08	34.39	27.42	75.2	13.71	67.46	1481.8

DEEPEST MEASUREMENT :

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
1210.0	3.06	34.40	27.43	74.1	13.78	68.36	1481.9

WIND MIXED LAYER DEPTH = 3.9 METRES

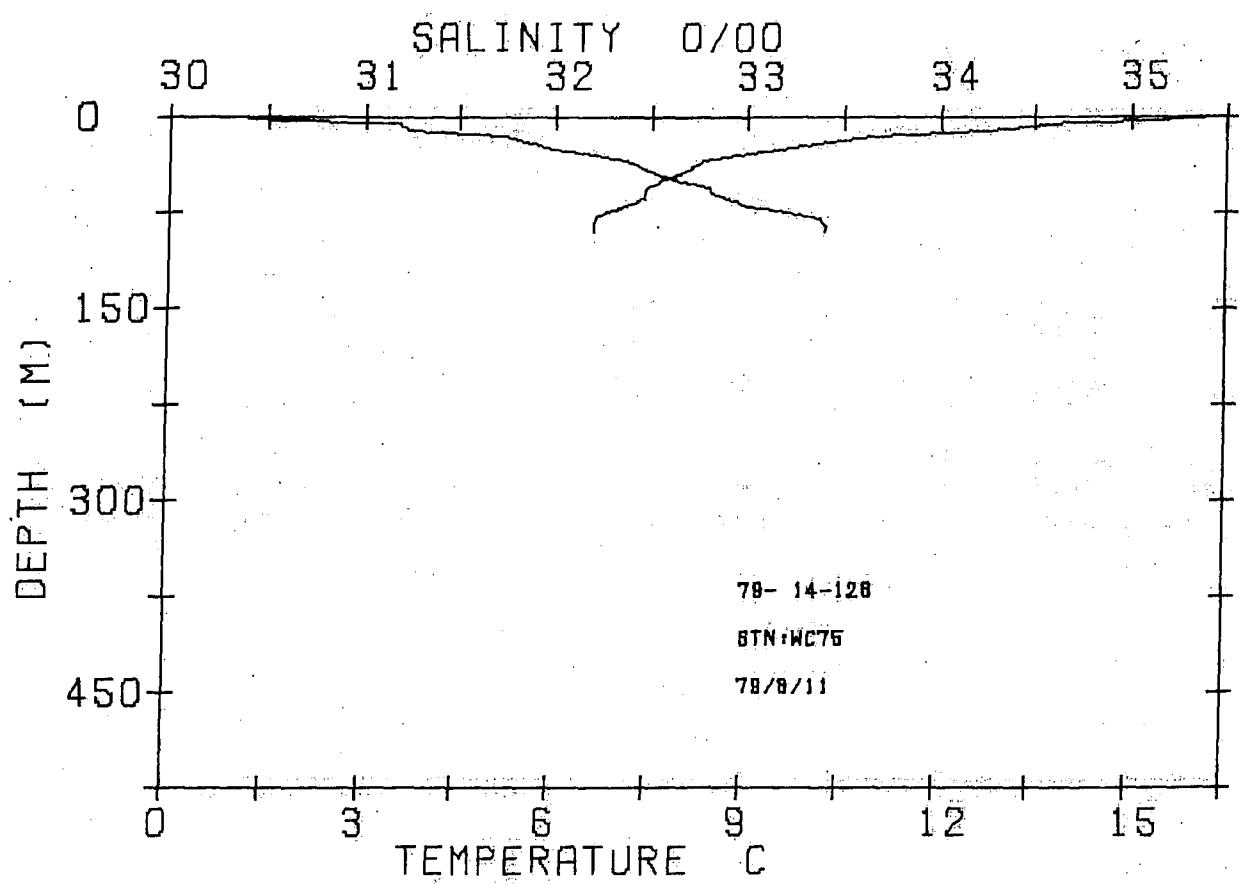


CRUISE : C.O.D.E. 79-14.
 STATION: WC74 CONS #125
 LAT N 50 42.3 LONG W 128 34.8
 DATE 79/08/11 TIME (PST) 1035

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
0	11.69	31.71	24.12	380.3	.00	.00	1492.2
10	9.01	32.51	25.19	278.8	.31	.01	1483.7
20	8.57	32.72	25.42	256.8	.57	.05	1482.5
30	8.46	32.80	25.50	249.6	.83	.12	1482.3
50	7.83	33.15	25.87	214.8	1.30	.31	1480.7
75	6.87	33.73	26.46	159.2	1.74	.58	1478.1
100	6.61	33.85	26.59	147.2	2.12	.91	1477.6

DEEPEST MEASUREMENT :

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
100.0	6.60	33.85	26.59	147.2	2.12	.91	1477.6



CRUISE : C.O.D.E. 79-14.
 STATION: WC75 CONS #126
 LAT N 50 56.0 LONG W 128 26.4
 DATE 79/08/11 TIME (PST) 1300

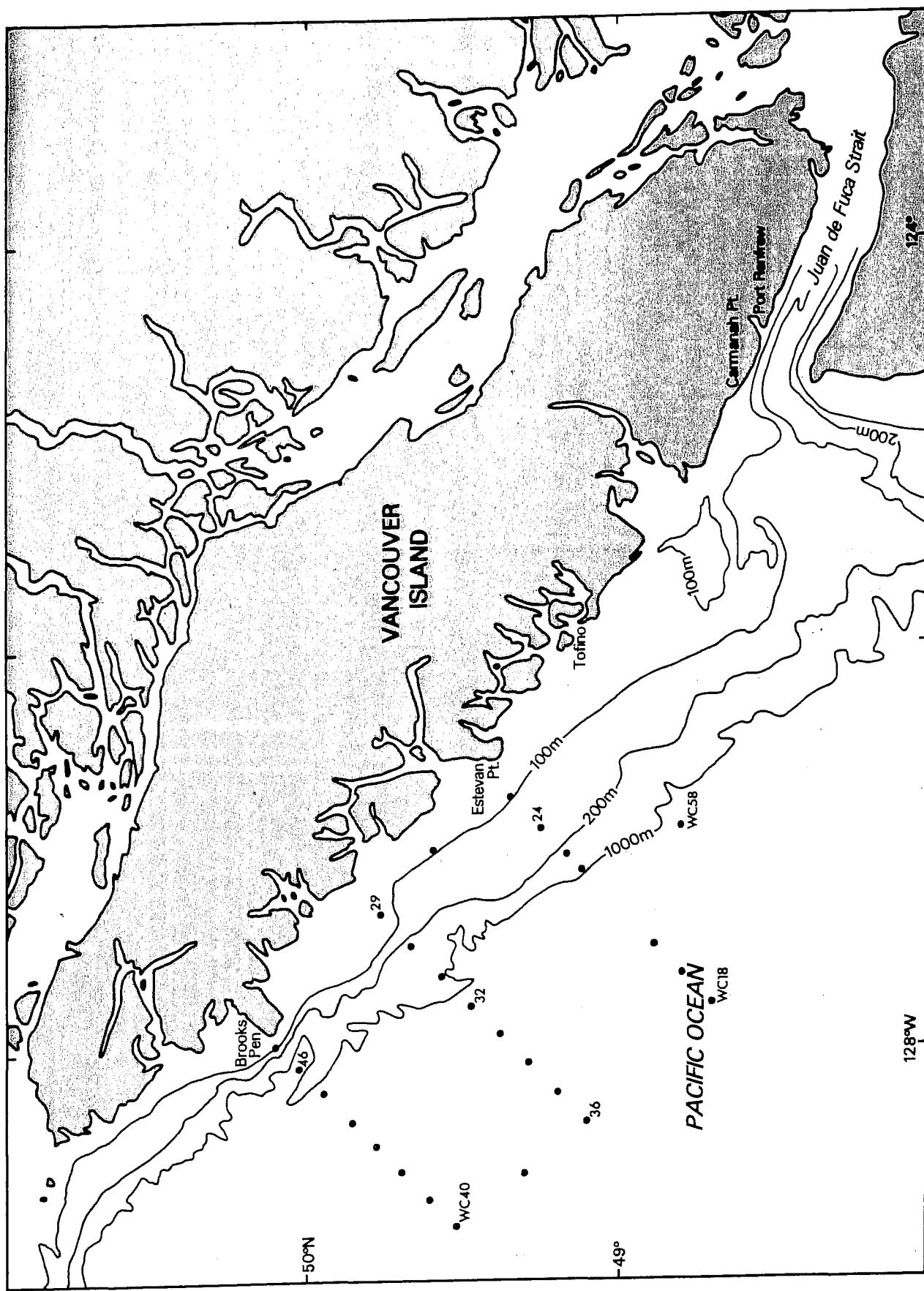
DEPTH	TEMP.	SAL	SIG-T	SVA	DELTA-D	POT. EN	SOUND
0	16.84	30.11	21.85	597.4	.00	.00	1507.2
10	12.75	31.23	23.55	435.2	.49	.02	1495.5
20	10.30	31.85	24.47	347.4	.87	.08	1487.8
30	8.85	32.21	24.98	298.9	1.19	.16	1483.0
50	7.72	32.62	25.47	252.5	1.74	.38	1479.6
75	6.84	33.22	26.06	196.4	2.30	.73	1477.3

DEEPEST MEASUREMENT :

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT. EN	SOUND
90.0	6.60	33.40	26.24	180.2	2.58	.96	1476.8

THIS PAGE IS BLANK

**CRUISE 79-15
SEPTEMBER 1979**



COASTAL OCEANIC DYNAMICS EXPERIMENT

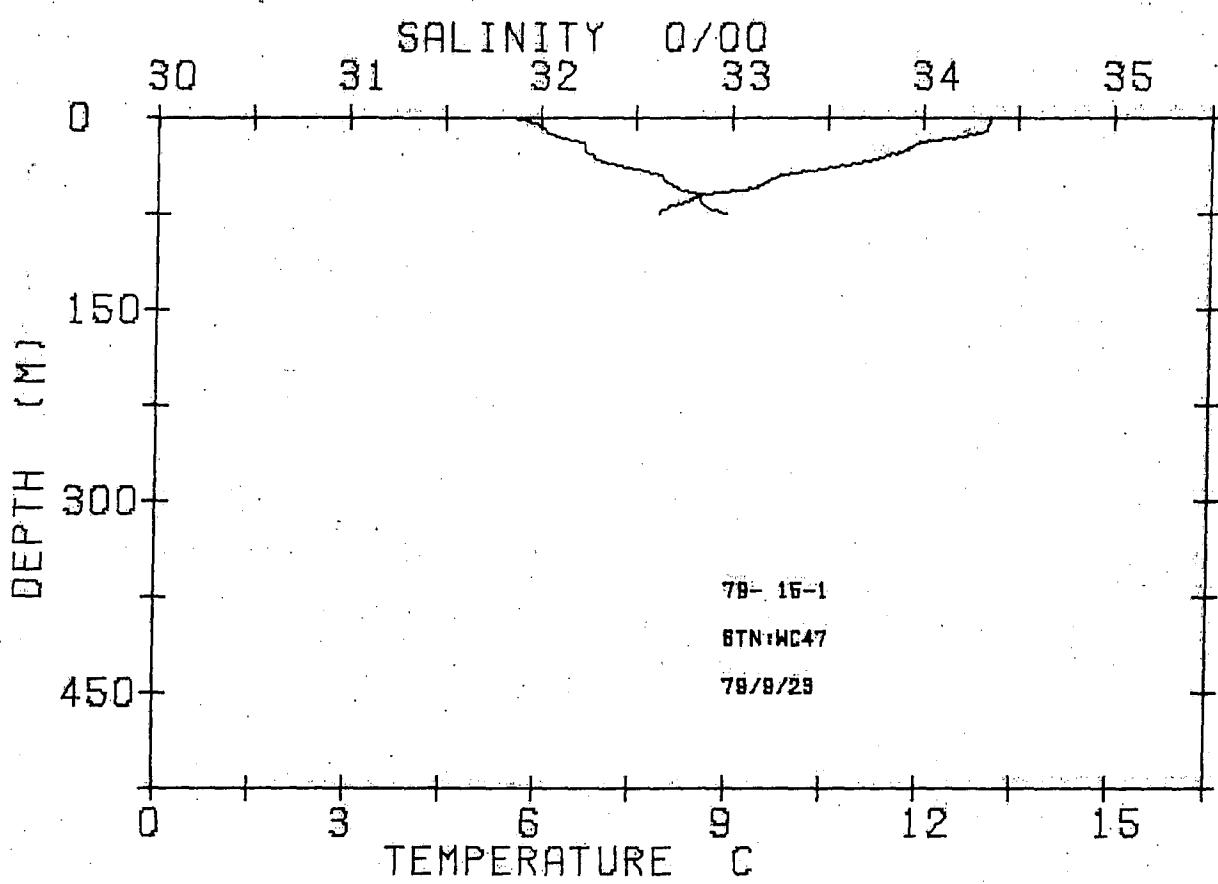
CRUISE 79-15. SEPTEMBER 23 - SEPTEMBER 26 , 1979

A. CRUISE SUMMARY :

1. NUMBER OF STATIONS PROCESSED : 27
2. NUMBER OF STATIONS OF DEPTH GREATER THAN 80.0 METRES
FOR WHICH THE DEPTH OF WIND MIXED LAYER COULD BE IDENTIFIED : 22

B. PARAMETERS, SYMBOLS, UNITS :

DEPTH : DEPTH : METRES
TEMPERATURE : TEMP : DEGREES CELCIUS
SALINITY : SAL : GRAMS PER KILOGRAM
SIGMA - T : SIG-T : (DIMENSIONLESS)
SPECIFIC VOLUME ANOMALY : SVA : $10\text{EXP}(-5)*\text{CM}*\text{EXP}(3)/\text{GRAM}$
GEOPOTENTIAL ANOMALY : DELTA-D : JOULES/KGR
POTENTIAL ENERGY : POT.EN : $10\text{EXP}(8)\text{ERGS}/(\text{CM}*\text{CM})$
SPEED OF SOUND : SOUND : METRES/SECOND. -WILSON 1960-

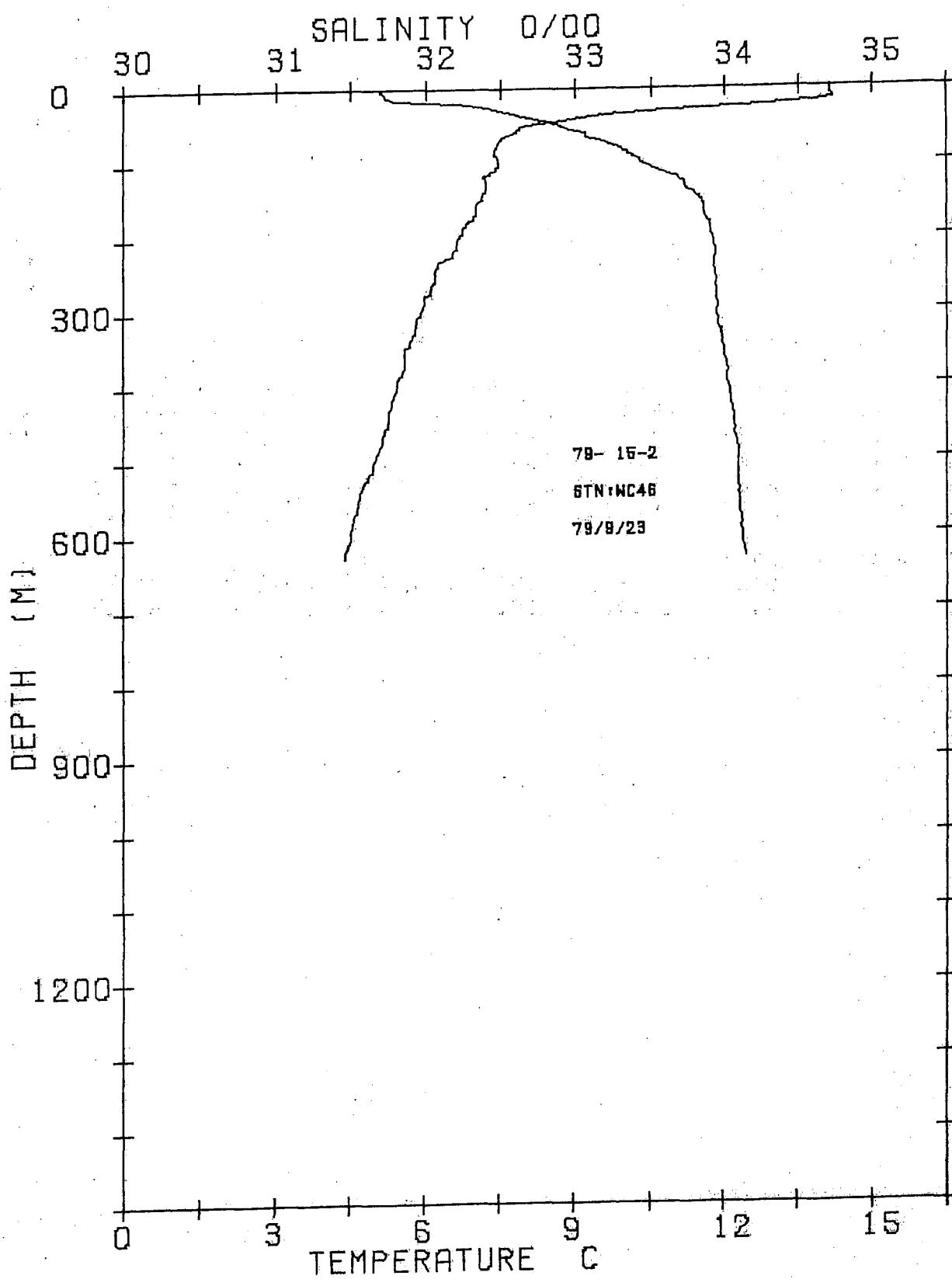


CRUISE : C.O.D.E. 79-15.
 STATION: WC47 CONS #001
 LAT N 50 06.0 LONG W 127 58.0
 DATE 79/09/23 TIME (PST) 0223

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
0	13.05	31.86	23.97	394.4	.00	.00	1497.1
10	12.99	32.03	24.12	380.7	.39	.02	1497.3
20	11.95	32.23	24.47	347.2	.75	.07	1494.1
30	11.47	32.28	24.60	335.2	1.10	.16	1492.7
50	9.58	32.66	25.22	277.1	1.70	.40	1486.7
75	7.90	32.97	25.72	229.7	2.33	.79	1481.1

DEEPEST MEASUREMENT :

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
75.1	7.90	32.97	25.72	229.6	2.33	.79	1481.1



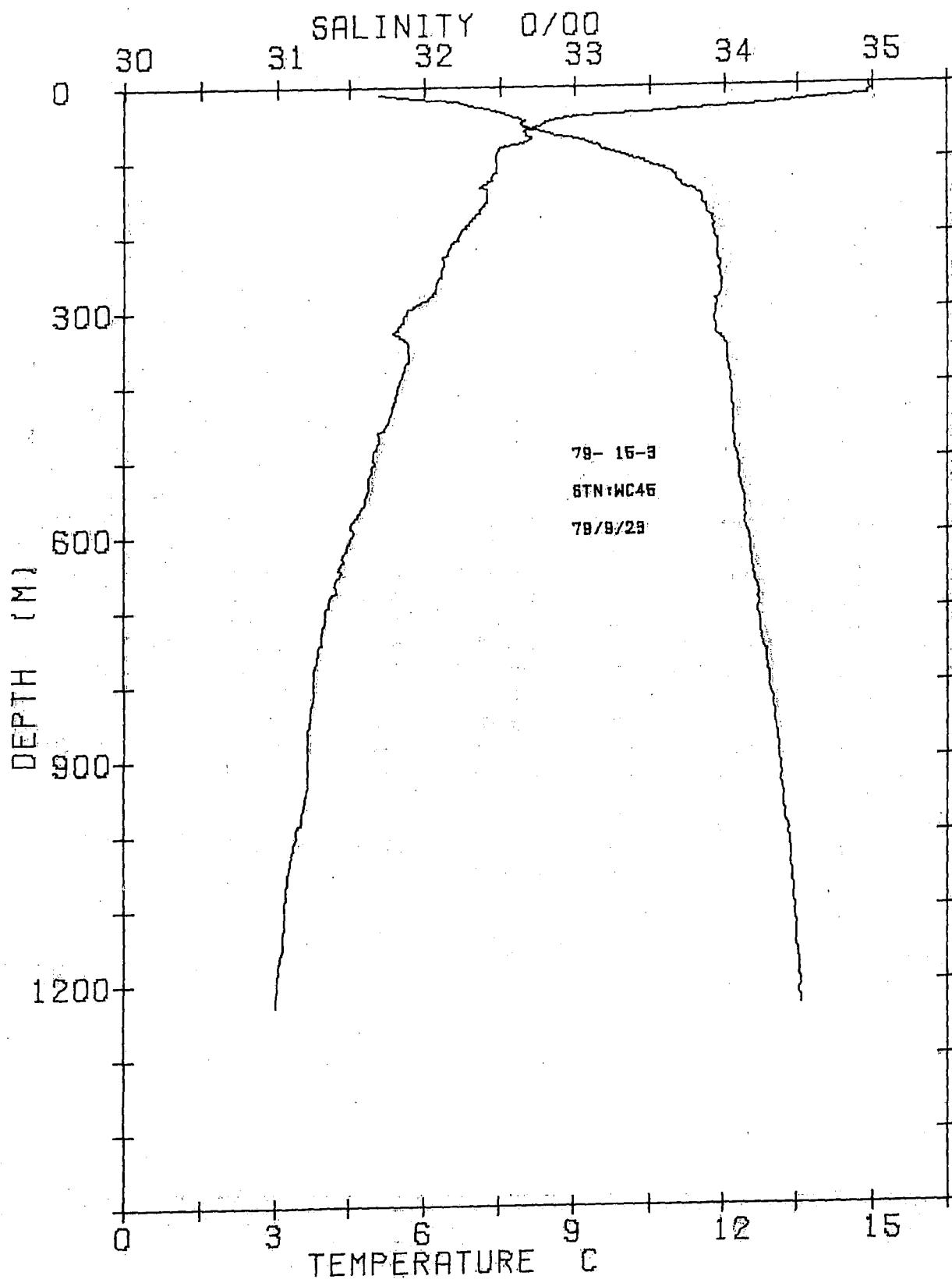
CRUISE : C.O.D.E. 79-15.
 STATION: WC46 CONS #002
 LAT N 50 01.5 LONG W 128 05.5
 DATE 79/09/23 TIME (PST) 0415

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
0	14.13	31.68	23.62	427.9	.00	.00	1500.5
10	14.13	31.73	23.66	424.5	.43	.02	1500.7
20	13.81	32.20	24.09	384.3	.84	.08	1500.4
30	10.83	32.50	24.88	308.5	1.18	.17	1490.7
50	7.98	32.90	25.65	235.5	1.72	.38	1480.9
75	7.45	33.23	25.99	203.5	2.27	.72	1479.7
100	7.45	33.44	26.16	188.4	2.75	1.14	1480.4
125	7.20	33.72	26.40	165.1	3.19	1.64	1480.2
150	7.10	33.84	26.51	155.2	3.59	2.19	1480.4
175	6.94	33.88	26.57	150.2	3.97	2.81	1480.2
200	6.66	33.92	26.64	143.5	4.34	3.49	1479.6
225	6.50	33.94	26.67	140.7	4.69	4.25	1479.3
250	6.19	33.94	26.72	136.7	5.04	5.07	1478.5
300	5.90	33.95	26.76	132.8	5.71	6.92	1478.2
400	5.44	34.03	26.88	122.7	6.99	11.37	1478.0
500	5.02	34.10	26.98	113.9	8.17	16.67	1478.1
600	4.52	34.13	27.07	106.1	9.27	22.71	1477.7

DEEPEST MEASUREMENT :

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
630.2	4.40	34.15	27.09	103.7	9.58	24.67	1477.7

WIND MIXED LAYER DEPTH = 17.6 METRES



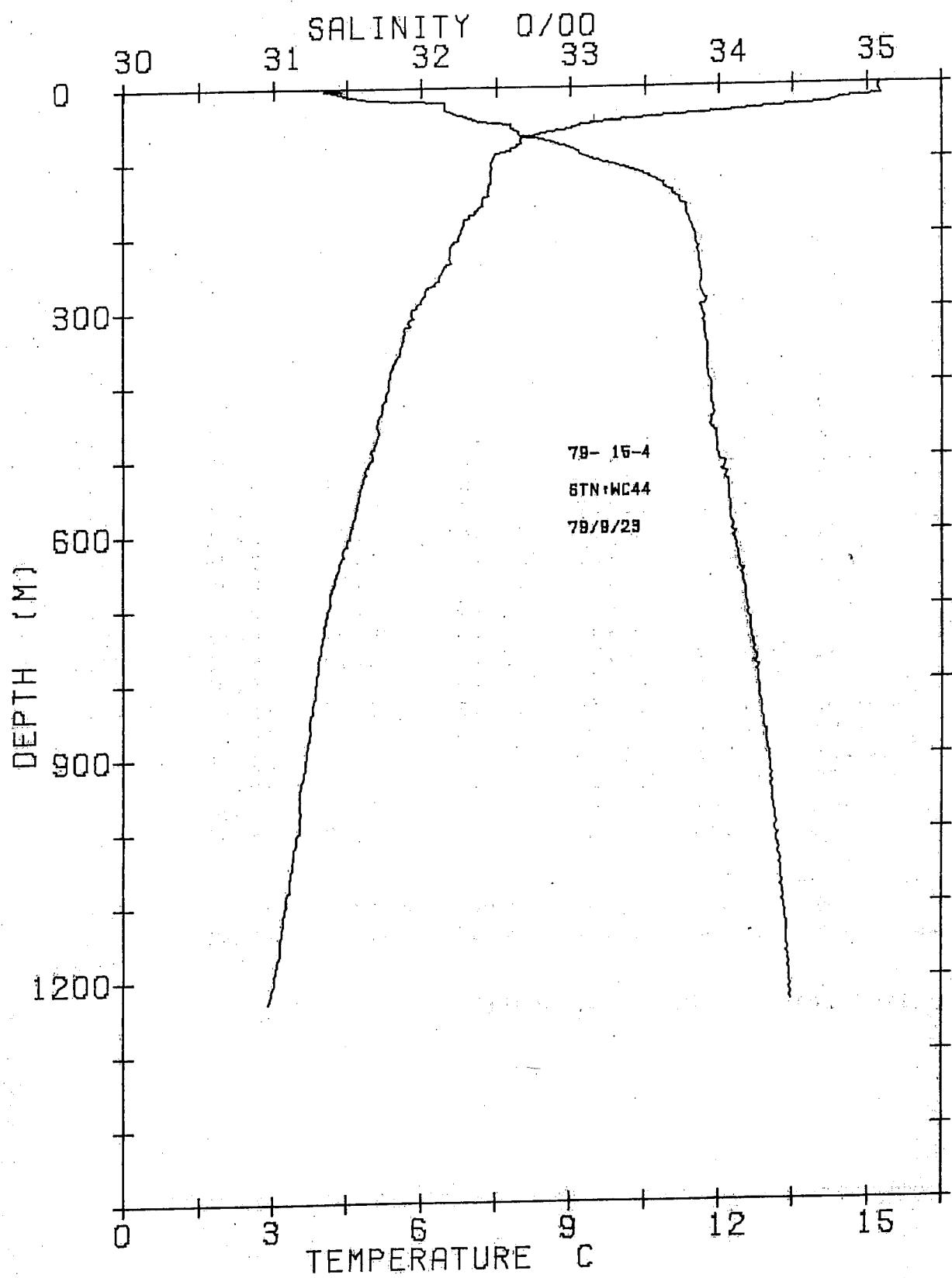
CRUISE : C.O.D.E. 79-15.
 STATION: NC45 CONS #003
 LAT N 49 57.0 LONG W 128 12.5
 DATE 79/09/23 TIME (PST) 0545

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
0	14.95	31.69	23.46	443.7	.00	.00	1503.2
10	14.97	31.70	23.46	443.4	.44	.02	1503.4
20	13.87	32.22	24.09	383.8	.86	.08	1500.6
30	11.82	32.42	24.64	331.1	1.22	.17	1494.1
50	8.39	32.65	25.39	260.0	1.79	.40	1482.2
75	7.99	33.11	25.81	220.5	2.39	.77	1481.7
100	7.42	33.46	26.17	186.9	2.90	1.21	1480.3
125	7.31	33.68	26.36	169.4	3.34	1.71	1480.6
150	7.23	33.85	26.51	155.9	3.74	2.26	1480.9
175	7.00	33.91	26.58	148.9	4.12	2.88	1480.5
200	6.69	33.93	26.64	143.3	4.49	3.57	1479.7
225	6.44	33.95	26.69	139.0	4.84	4.31	1479.1
250	6.34	33.97	26.72	136.5	5.18	5.13	1479.1
300	5.07	33.94	26.78	131.5	5.86	6.98	1477.2
400	5.48	34.05	26.89	122.1	7.12	11.41	1478.2
500	4.99	34.09	26.98	113.8	8.31	16.74	1477.9
600	4.55	34.17	27.09	104.2	9.40	22.74	1477.8
800	3.77	34.31	27.28	86.4	11.29	35.89	1478.1
1000	3.42	34.44	27.43	73.7	12.89	50.30	1480.0
1200	3.03	34.53	27.53	64.7	14.27	65.42	1481.8

DEEPEST MEASUREMENT :

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
1230.0	2.99	34.53	27.54	64.2	14.46	67.77	1482.1

WIND MIXED LAYER DEPTH = 16.2 METRES



CRUISE : C.O.D.E. 79-15.

STATION: WC44 CONS #004

LAT N 49 51.5 LONG W 128 20.5

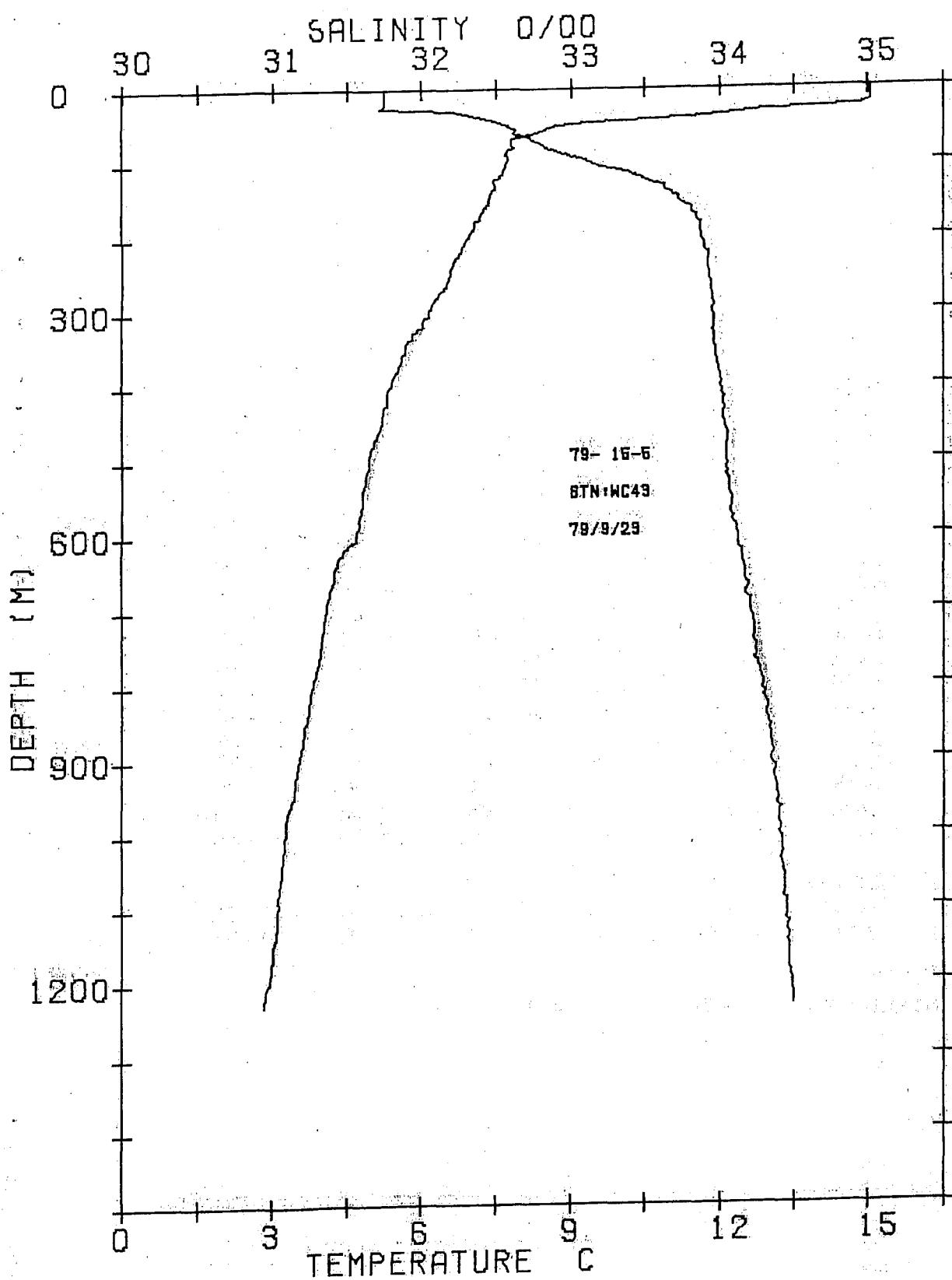
DATE 79/09/23 TIME (PST) 1332

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
0	15.23	31.32	23.12	476.4	.00	.00	1503.6
10	15.21	31.48	23.24	464.7	.47	.02	1503.9
20	14.49	32.13	23.90	402.2	.91	.09	1502.6
30	13.07	32.15	24.20	373.5	1.30	.19	1498.0
50	9.24	32.59	25.22	277.1	1.96	.44	1485.3
75	7.98	32.90	25.66	235.3	2.60	.84	1481.3
100	7.40	33.20	25.97	205.6	3.15	1.32	1479.9
125	7.38	33.58	26.27	177.7	3.63	1.86	1480.7
150	7.24	33.73	26.41	164.9	4.05	2.44	1480.7
175	6.93	33.79	26.50	156.6	4.46	3.10	1480.0
200	6.76	33.84	26.56	151.2	4.84	3.82	1479.8
225	6.56	33.86	26.60	147.5	5.21	4.61	1479.5
250	6.38	33.88	26.64	144.0	5.58	5.48	1479.2
300	5.79	33.88	26.72	137.0	6.28	7.41	1477.7
400	5.34	33.95	26.83	127.5	7.60	12.03	1477.5
500	5.00	34.00	26.91	121.0	8.85	17.64	1477.8
600	4.56	34.11	27.04	108.5	9.99	23.87	1477.8
800	3.90	34.26	27.24	91.1	11.96	37.65	1478.5
1000	3.53	34.38	27.37	79.5	13.65	52.80	1480.4
1200	3.03	34.48	27.49	67.9	15.11	68.85	1481.7

DEEPEST MEASUREMENT :

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
1230.1	2.92	34.49	27.51	66.1	15.32	71.31	1481.8

WIND MIXED LAYER DEPTH = 18.0 METRES



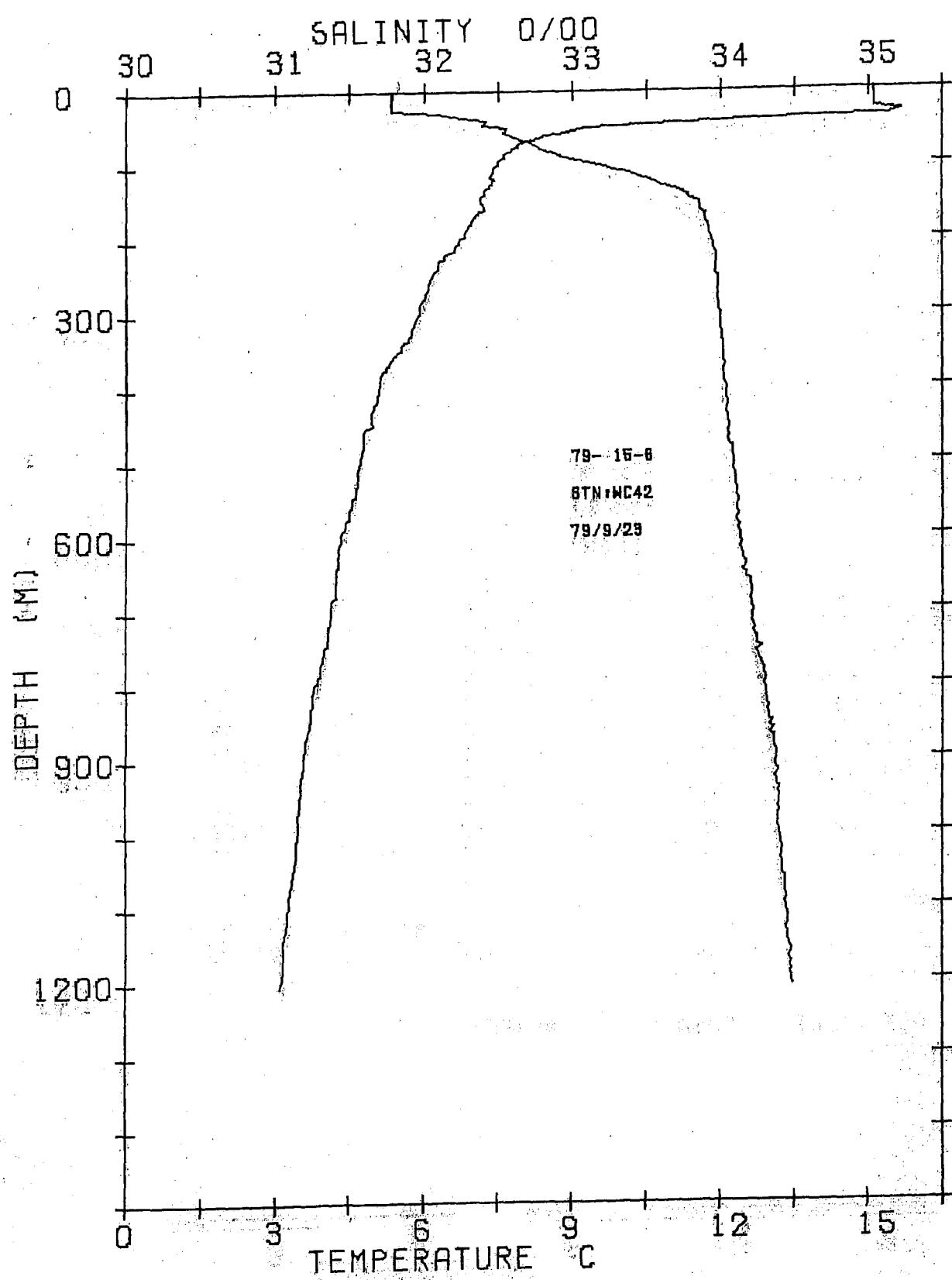
CRUISE : C.O.D.E. 79-15.
 STATION: WC43 CONS #005
 LAT N 49 47.0 LONG W 128 28.5
 DATE 79/09/23 TIME (PST) 1522

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
0	15.06	31.75	23.48	441.3	.00	.00	1503.6
10	15.05	31.75	23.49	441.3	.44	.02	1503.7
20	15.05	31.75	23.48	441.8	.88	.09	1503.9
30	12.98	32.21	24.26	367.6	1.31	.19	1497.8
50	8.72	32.57	25.29	270.2	1.94	.44	1483.3
75	7.81	32.81	25.61	239.8	2.58	.84	1480.6
100	7.71	33.13	25.88	214.9	3.15	1.34	1481.0
125	7.44	33.53	26.22	182.3	3.64	1.89	1480.9
150	7.36	33.73	26.40	166.2	4.07	2.48	1481.2
175	7.18	33.85	26.52	155.3	4.47	3.13	1481.1
200	6.97	33.88	26.57	150.5	4.85	3.85	1480.7
225	6.76	33.93	26.63	144.9	5.22	4.63	1480.4
250	6.59	33.93	26.65	142.9	5.58	5.49	1480.1
300	6.16	33.95	26.73	136.6	6.28	7.40	1479.2
400	5.40	34.00	26.86	124.2	7.58	11.93	1477.8
500	4.96	34.04	26.95	117.1	8.78	17.33	1477.7
600	4.69	34.12	27.04	109.3	9.92	23.59	1478.3
800	3.84	34.29	27.26	88.8	11.87	37.20	1478.3
1000	3.29	34.40	27.40	75.6	13.50	51.78	1479.4
1200	2.96	34.49	27.51	66.7	14.91	67.33	1481.4

DEEPEST MEASUREMENT :

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
1230.1	2.85	34.50	27.52	64.9	15.11	69.72	1481.5

WIND MIXED LAYER DEPTH = 22.8 METRES



CRUISE : C.O.D.E. 79-15.

STATION: WC42 CONS #006

LAT N 49 42.0 LONG W 128 36.5

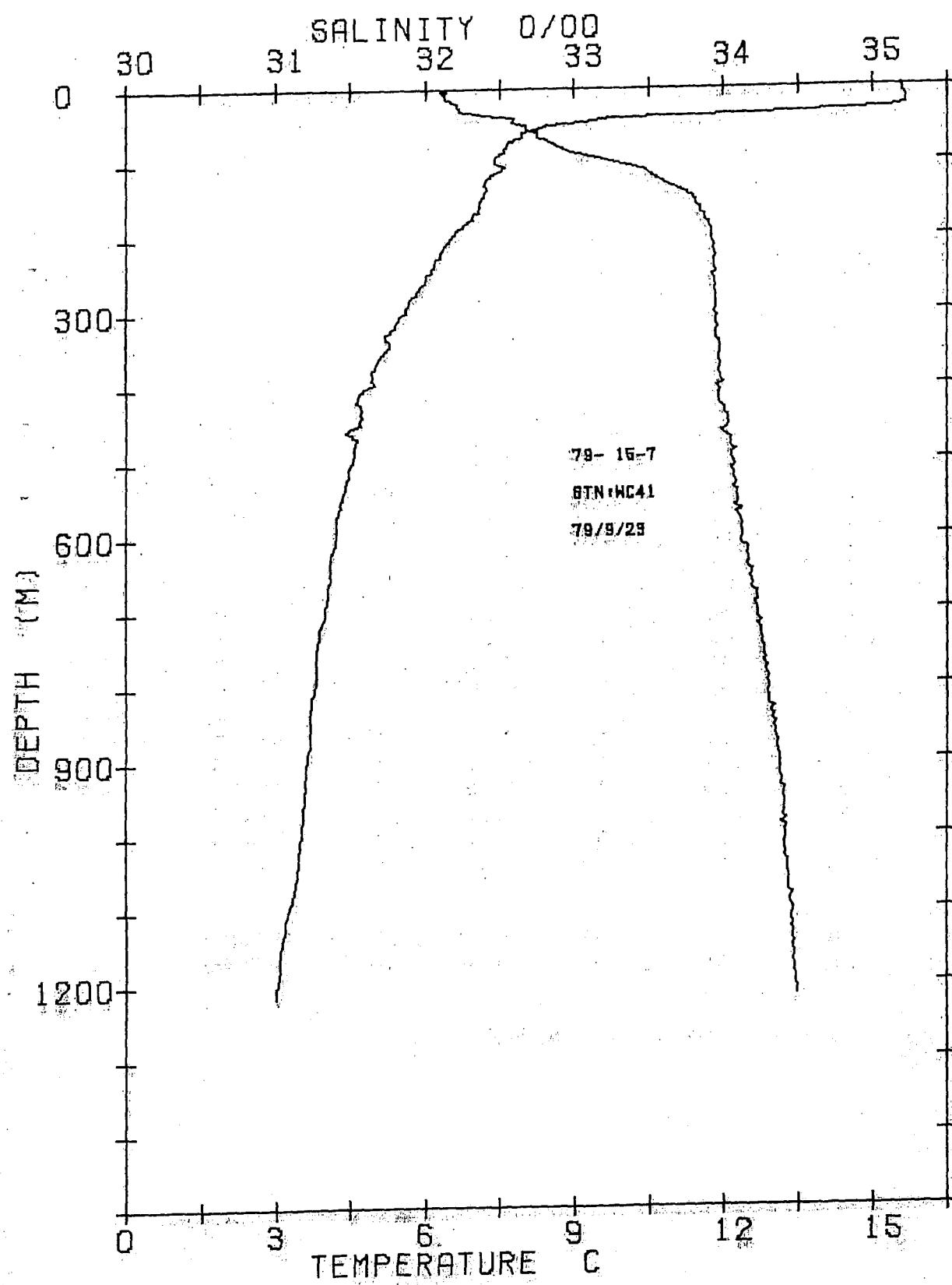
DATE 79/09/23 TIME (PST) 2009

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
0	15.10	31.78	23.50	440.0	.00	.00	1503.8
10	15.11	31.78	23.50	440.3	.44	.02	1504.0
20	15.11	31.78	23.49	440.8	.88	.09	1504.1
30	15.63	32.08	23.61	429.8	1.32	.20	1506.3
50	9.28	32.54	25.18	280.7	2.03	.48	1485.4
75	7.85	32.77	25.57	243.6	2.69	.88	1480.7
100	7.46	33.18	25.95	208.2	3.26	1.38	1480.1
125	7.34	33.57	26.27	177.5	3.73	1.92	1480.6
150	7.15	33.85	26.52	154.9	4.14	2.48	1480.6
175	6.97	33.90	26.58	148.8	4.53	3.10	1480.4
200	6.73	33.94	26.65	143.1	4.89	3.78	1479.8
225	6.40	33.97	26.71	137.1	5.24	4.53	1479.0
250	6.16	33.98	26.75	133.9	5.58	5.33	1478.5
300	5.90	34.00	26.80	129.7	6.24	7.14	1478.2
400	5.10	34.04	26.92	118.2	7.48	11.47	1476.7
500	4.74	34.09	27.01	111.1	8.63	16.63	1476.9
600	4.35	34.13	27.09	104.2	9.71	22.57	1476.9
800	3.79	34.29	27.27	87.7	11.64	36.03	1478.1
1000	3.44	34.39	27.38	78.2	13.27	50.69	1480.1
1200	3.10	34.48	27.49	68.6	14.73	66.74	1482.0

DEEPEST MEASUREMENT :

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
1205.1	3.09	34.49	27.49	68.0	14.77	67.16	1482.1

WIND MIXED LAYER DEPTH = 34.8 METRES



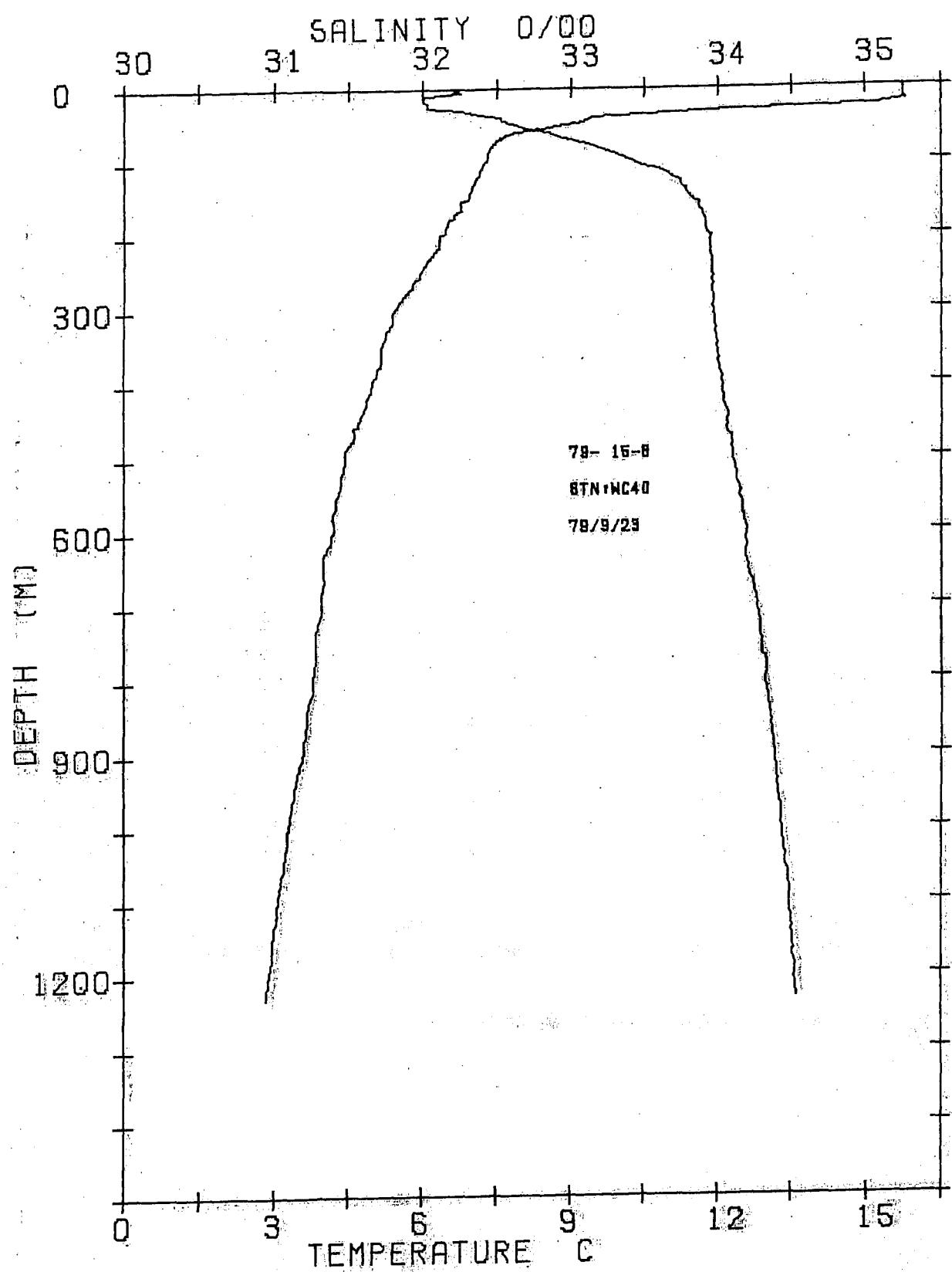
CRUISE : C.O.D.E. 79-15.
 STATION: WC41 CONS #007
 LAT N 49 36.5 LONG W 128 44.5
 DATE 79/09/23 TIME (PST) 2138

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
0	15.58	32.13	23.66	424.8	.00	.00	1505.7
10	15.61	32.12	23.65	425.9	.43	.02	1506.0
20	15.66	32.20	23.70	421.2	.85	.08	1506.4
30	15.35	32.22	23.78	413.5	1.27	.19	1505.6
50	8.52	32.67	25.39	260.4	1.89	.43	1482.7
75	7.66	32.88	25.69	232.5	2.51	.82	1480.1
100	7.38	33.29	26.04	199.1	3.05	1.29	1479.9
125	7.20	33.60	26.31	173.8	3.52	1.81	1480.0
150	7.12	33.81	26.49	157.2	3.93	2.38	1480.4
175	6.92	33.88	26.57	149.9	4.31	3.00	1480.1
200	6.53	33.92	26.65	142.3	4.68	3.68	1479.0
225	6.27	33.95	26.71	137.0	5.02	4.42	1478.4
250	6.01	33.93	26.73	135.1	5.36	5.23	1477.8
300	5.57	33.94	26.80	129.6	6.02	7.04	1476.8
400	4.82	33.96	26.89	120.8	7.26	11.36	1475.4
500	4.57	34.07	27.01	110.5	8.40	16.50	1476.1
600	4.23	34.13	27.09	103.1	9.47	22.36	1476.4
800	3.79	34.30	27.27	87.4	11.35	35.47	1478.1
1000	3.50	34.41	27.40	76.9	12.98	50.14	1480.3
1200	3.02	34.48	27.49	67.8	14.44	66.11	1481.7

DEEPEST MEASUREMENT :

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
1215.1	2.99	34.49	27.50	66.9	14.54	67.33	1481.8

WIND MIXED LAYER DEPTH = 28.7 METRES



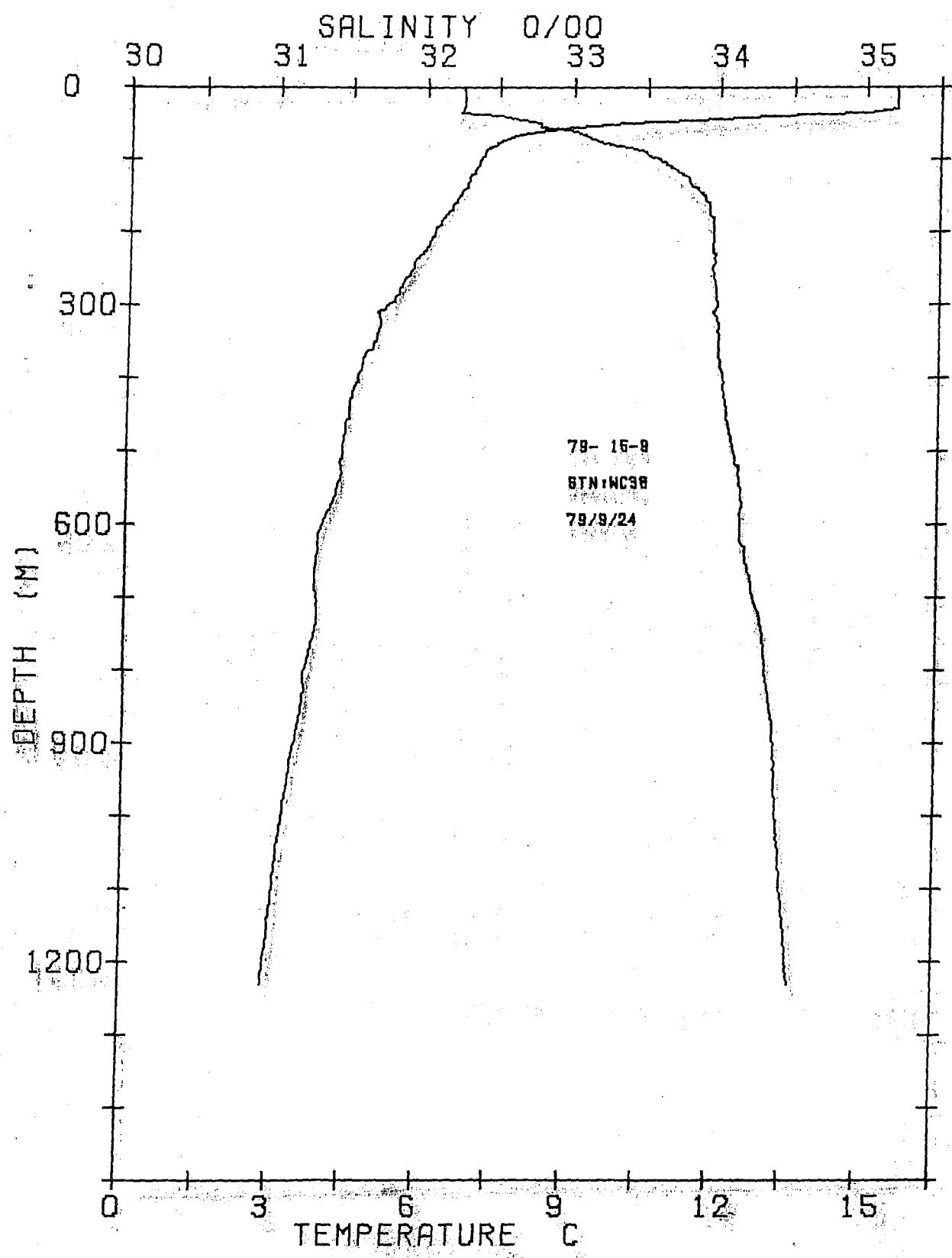
CRUISE : C.O.D.E. 79-15.
 STATION: WC40 CONS #008
 LAT N 49 31.5 LONG W 128 52.5
 DATE 79/09/23 TIME (PST) 2323

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
0	15.75	32.21	23.68	422.3	.00	.00	1506.3
10	15.76	32.02	23.53	436.6	.42	.02	1506.3
20	15.77	32.03	23.54	436.0	.86	.09	1506.5
30	12.44	32.27	24.41	353.6	1.27	.19	1496.0
50	8.87	32.63	25.31	268.2	1.87	.42	1484.0
75	7.46	33.12	25.90	212.2	2.46	.79	1479.6
100	7.28	33.43	26.17	187.2	2.96	1.23	1479.7
125	7.07	33.75	26.45	161.0	3.39	1.71	1479.7
150	6.93	33.83	26.54	152.9	3.78	2.25	1479.7
175	6.64	33.91	26.64	143.6	4.15	2.85	1479.0
200	6.37	33.95	26.70	137.9	4.51	3.51	1478.4
225	6.21	33.95	26.72	135.8	4.85	4.24	1478.2
250	5.96	33.96	26.76	132.9	5.18	5.04	1477.6
300	5.43	33.97	26.83	126.2	5.83	6.82	1476.3
400	4.97	34.03	26.94	117.1	7.05	11.07	1476.1
500	4.43	34.10	27.05	106.6	8.17	16.09	1475.6
600	4.20	34.20	27.15	97.5	9.18	21.68	1476.4
800	3.79	34.32	27.29	85.5	11.00	34.36	1478.2
1000	3.31	34.44	27.43	73.0	12.58	48.51	1479.6
1200	2.91	34.53	27.54	63.2	13.93	63.35	1481.3

DEEPEST MEASUREMENT :

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
1230.0	2.84	34.54	27.56	61.8	14.12	65.63	1481.5

WIND MIXED LAYER DEPTH = 22.7 METRES



CRUISE : C.O.D.E. 79-15.

STATION: WC38 CONS #009

LAT N 49 18.5 LONG W 128 36.5

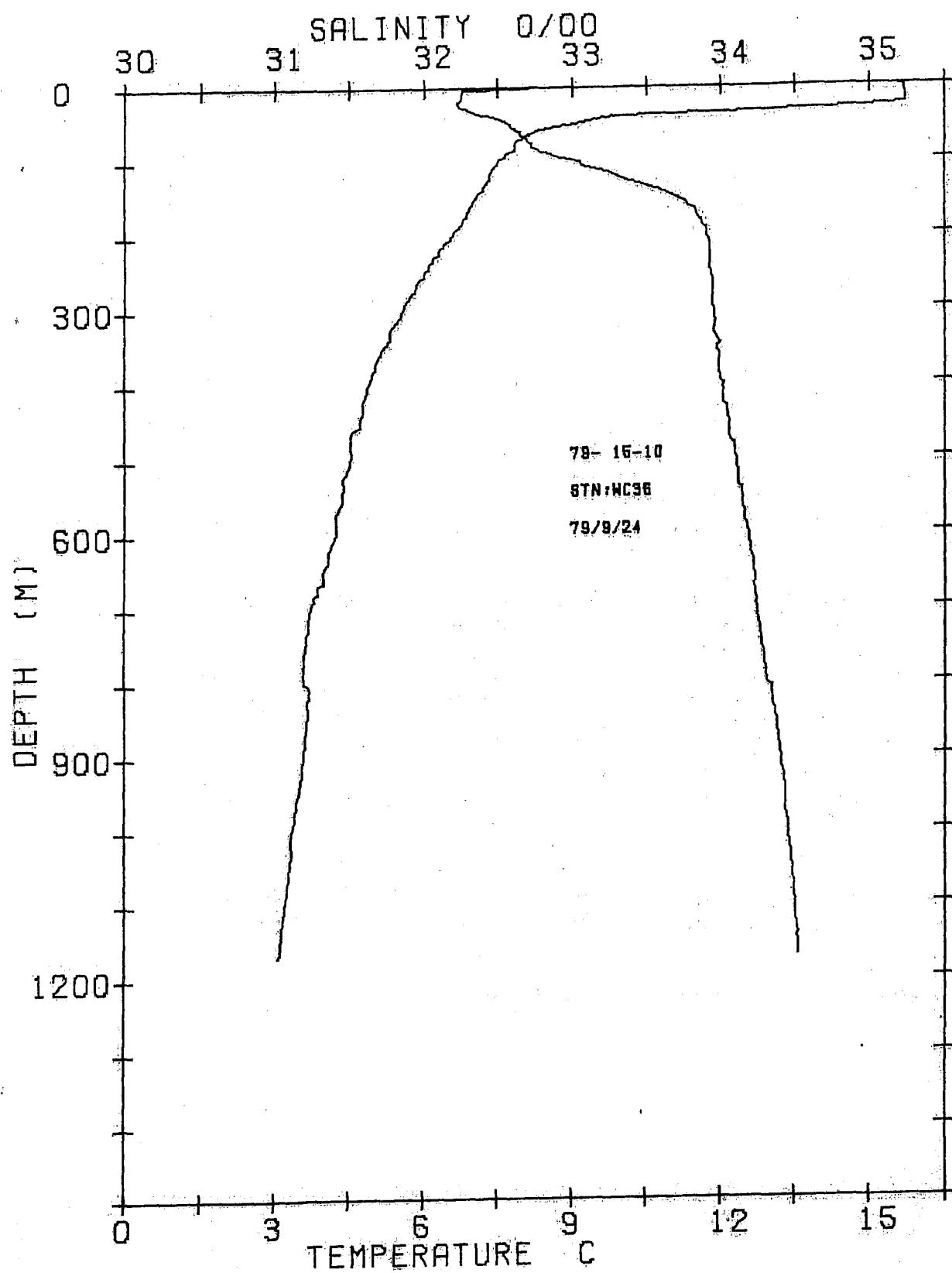
DATE 79/09/24 TIME (PST) 0312

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
0	15.62	32.25	23.74	416.5	.00	.00	1506.0
10	15.63	32.26	23.75	415.9	.42	.02	1506.2
20	15.63	32.26	23.75	416.5	.83	.08	1506.4
30	15.62	32.25	23.75	416.9	1.25	.19	1506.5
50	10.11	32.78	25.22	276.3	1.95	.46	1488.8
75	7.54	33.18	25.94	208.6	2.54	.83	1480.0
100	7.16	33.58	26.31	173.9	3.02	1.24	1479.4
125	6.92	33.79	26.50	156.1	3.43	1.70	1479.2
150	6.71	33.90	26.61	145.6	3.81	2.22	1478.9
175	6.46	33.94	26.68	139.1	4.16	2.80	1478.4
200	6.22	33.97	26.73	134.5	4.50	3.44	1477.8
225	6.00	33.96	26.76	132.4	4.84	4.14	1477.4
250	5.75	33.96	26.79	129.7	5.16	4.92	1476.8
300	5.24	34.00	26.88	121.8	5.79	6.64	1475.6
400	4.66	34.04	26.98	112.5	6.97	10.76	1474.9
500	4.38	34.12	27.07	104.9	8.06	15.66	1475.4
600	3.98	34.17	27.15	97.3	9.07	21.19	1475.5
800	3.66	34.35	27.33	81.8	10.86	33.67	1477.6
1000	3.25	34.44	27.44	71.9	12.38	47.36	1479.3
1200	2.91	34.53	27.55	62.7	13.73	62.14	1481.3

DEEPEST MEASUREMENT :

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
1230.0	2.87	34.55	27.56	61.5	13.91	64.40	1481.7

WIND MIXED LAYER DEPTH = 32.0 METRES



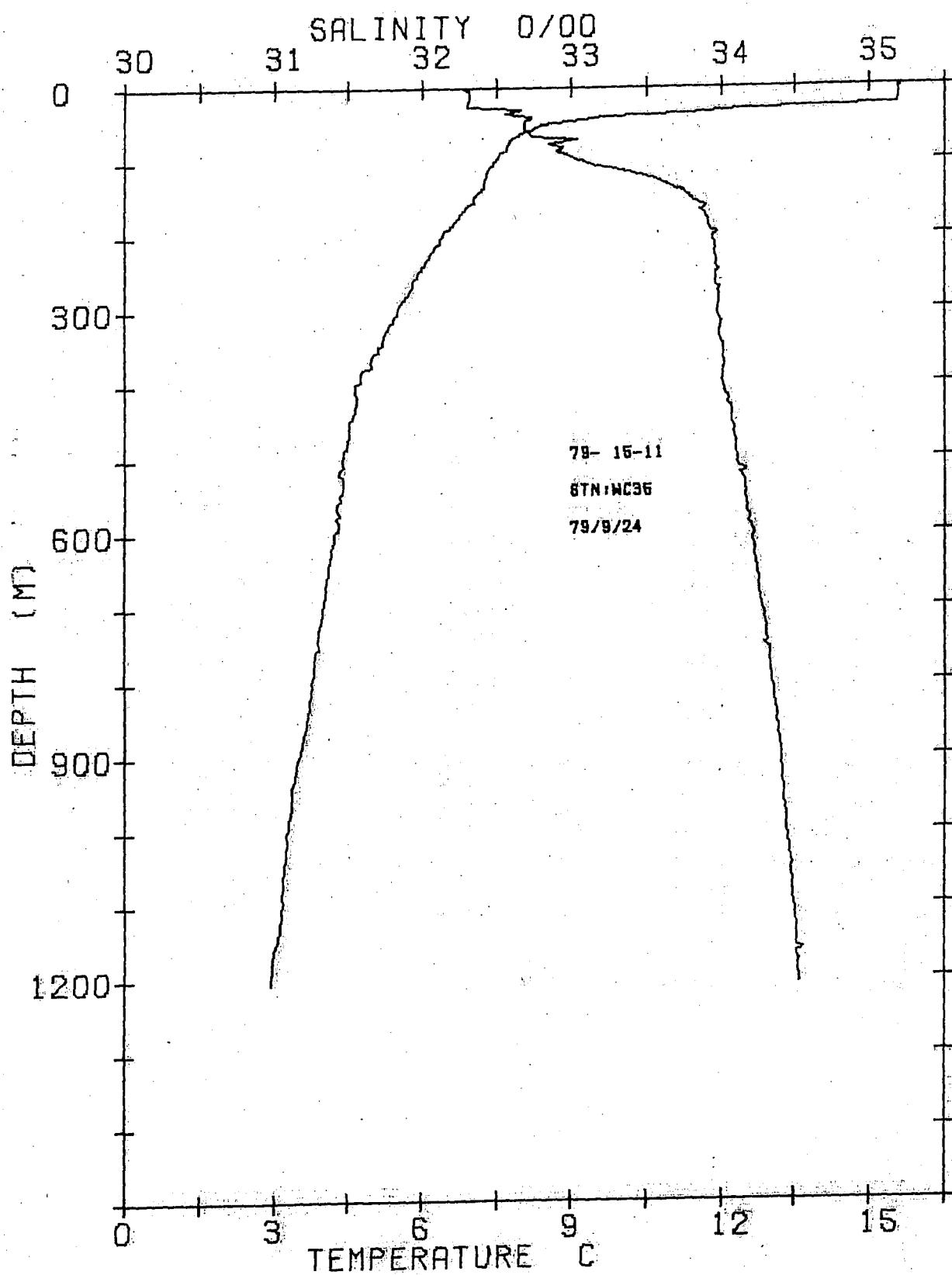
CRUISE : C.O.D.E. 79-15.
 STATION: WC36 CONS #010
 LAT N 49 06.5 LONG W 128 21.0
 DATE 79/09/24 TIME (PST) 0701

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
0	15.56	32.77	24.16	377.1	.00	.00	1506.4
10	15.70	32.25	23.73	418.3	.41	.02	1506.4
20	15.72	32.23	23.71	420.2	.83	.08	1506.6
30	14.91	32.30	23.94	398.6	1.24	.19	1504.3
50	9.08	32.58	25.24	274.8	1.87	.43	1484.7
75	7.89	32.73	25.53	247.1	2.51	.83	1480.8
100	7.53	33.05	25.83	219.0	3.11	1.35	1480.2
125	7.34	33.35	26.10	194.2	3.62	1.93	1480.2
150	7.08	33.71	26.42	164.2	4.07	2.54	1480.1
175	6.88	33.85	26.55	151.7	4.46	3.17	1479.9
200	6.61	33.91	26.64	144.0	4.82	3.86	1479.4
225	6.30	33.93	26.69	138.7	5.18	4.61	1478.5
250	6.04	33.94	26.73	135.3	5.52	5.42	1477.9
300	5.59	33.96	26.80	128.9	6.18	7.23	1476.9
400	4.89	34.02	26.93	117.2	7.41	11.53	1475.8
500	4.54	34.11	27.04	107.4	8.53	16.59	1476.1
600	4.26	34.19	27.14	99.3	9.57	22.26	1476.6
800	3.61	34.31	27.30	84.3	11.38	34.92	1477.4
1000	3.36	34.46	27.44	72.1	12.94	48.89	1479.8

DEEPEST MEASUREMENT :

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
1170.0	3.09	34.53	27.53	64.8	14.10	61.47	1481.6

WIND MIXED LAYER DEPTH = 28.2 METRES



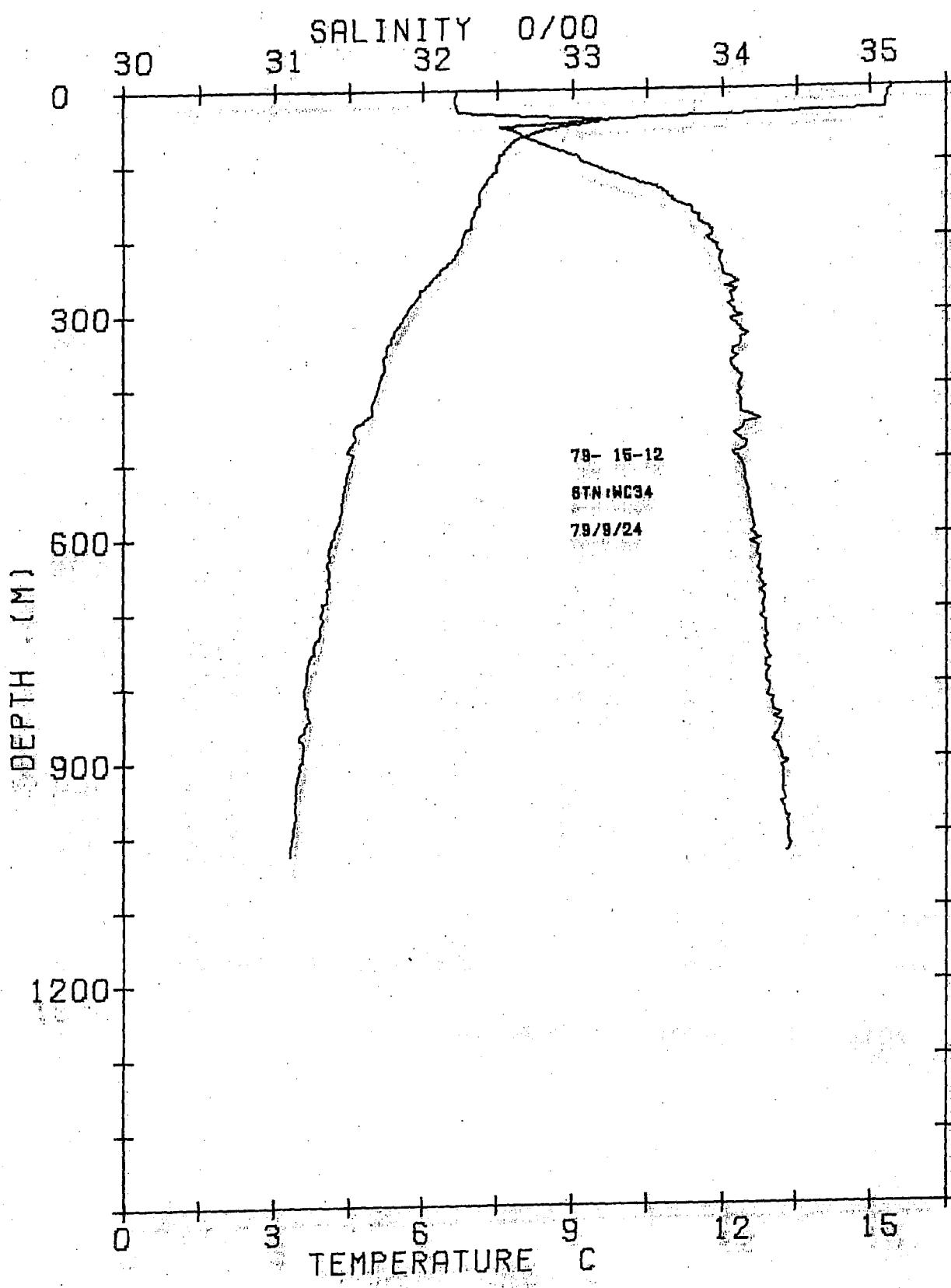
CRUISE : C.O.D.E. 79-15.
 STATION: WC35 CONS #011
 LAT N 49 12.0 LONG W 128 12.5
 DATE 79/09/24 TIME (PST) 1015

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
0	15.64	32.27	23.75	415.6	.00	.00	1506.1
10	15.59	32.31	23.80	411.7	.41	.02	1506.1
20	15.61	32.30	23.79	412.9	.82	.08	1506.3
30	12.48	32.66	24.71	325.3	1.22	.18	1496.6
50	8.43	32.68	25.41	258.1	1.79	.41	1482.4
75	7.73	32.84	25.64	236.5	2.40	.78	1480.3
100	7.49	33.09	25.87	215.1	2.96	1.28	1480.1
125	7.26	33.59	26.30	175.2	3.45	1.82	1480.3
150	7.02	33.80	26.50	156.7	3.86	2.39	1480.0
175	6.72	33.90	26.61	146.0	4.24	3.00	1479.3
200	6.38	33.94	26.69	138.9	4.60	3.67	1478.4
225	6.14	33.95	26.73	135.1	4.94	4.40	1477.9
250	5.91	33.96	26.77	132.0	5.27	5.19	1477.4
300	5.50	33.97	26.83	126.7	5.92	6.96	1476.6
400	4.66	34.01	26.96	114.7	7.12	11.17	1474.8
500	4.38	34.11	27.06	105.4	8.22	16.11	1475.4
600	4.24	34.22	27.16	96.7	9.23	21.67	1476.6
800	3.76	34.34	27.31	83.6	11.05	34.31	1478.0
1000	3.27	34.45	27.45	71.3	12.59	48.12	1479.4
1200	2.93	34.54	27.55	62.7	13.93	62.84	1481.4

DEEPEST MEASUREMENT :

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
1205.0	2.93	34.54	27.55	62.6	13.96	63.22	1481.5

WIND MIXED LAYER DEPTH = 22.7 METRES



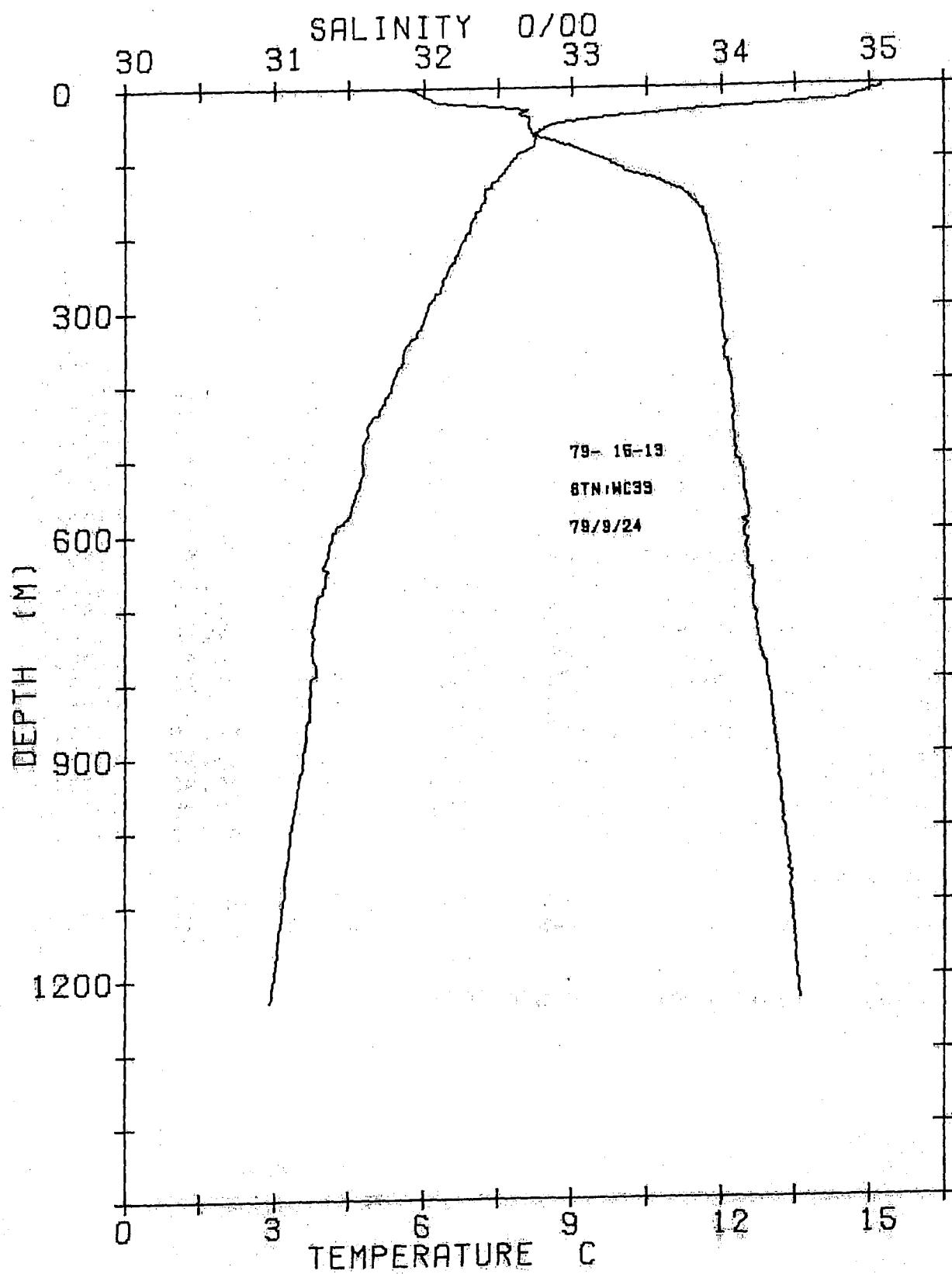
CRUISE : C.O.D.E. 79-15.
 STATION: WC34 CONS #012
 LAT N 49 18.0 LONG W 128 04.0
 DATE 79/09/24 TIME (PST) 1144

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
0	15.42	32.22	23.76	414.4	.00	.00	1505.3
10	15.37	32.21	23.77	414.4	.41	.02	1505.3
20	15.34	32.22	23.78	413.3	.83	.08	1505.4
30	15.31	32.24	23.81	411.1	1.24	.19	1505.5
50	8.84	32.52	25.23	275.8	1.82	.41	1483.7
75	7.73	32.84	25.64	236.5	2.45	.81	1480.3
100	7.50	33.11	25.89	214.0	3.01	1.29	1480.2
125	7.28	33.46	26.19	185.1	3.51	1.86	1480.2
150	7.14	33.68	26.39	167.1	3.94	2.45	1480.3
175	6.99	33.84	26.53	153.4	4.34	3.09	1480.4
200	6.82	33.90	26.60	147.1	4.71	3.79	1480.2
225	6.62	33.98	26.69	139.4	5.07	4.54	1479.9
250	6.27	34.01	26.76	133.0	5.41	5.35	1478.9
300	5.67	34.08	26.89	121.0	6.03	7.07	1477.4
400	5.10	34.10	26.97	113.8	7.19	11.11	1476.8
500	4.54	34.12	27.05	106.5	8.27	15.97	1476.1
600	4.20	34.21	27.16	97.1	9.28	21.53	1476.4
800	3.64	34.31	27.30	84.8	11.09	34.18	1477.5
1000	3.38	34.45	27.44	72.9	12.66	48.27	1479.9

DEEPEST MEASUREMENT :

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
1025.0	3.34	34.44	27.43	73.3	12.84	50.10	1480.1

WIND MIXED LAYER DEPTH = 29.5 METRES



CRUISE : C.O.D.E. 79-15.

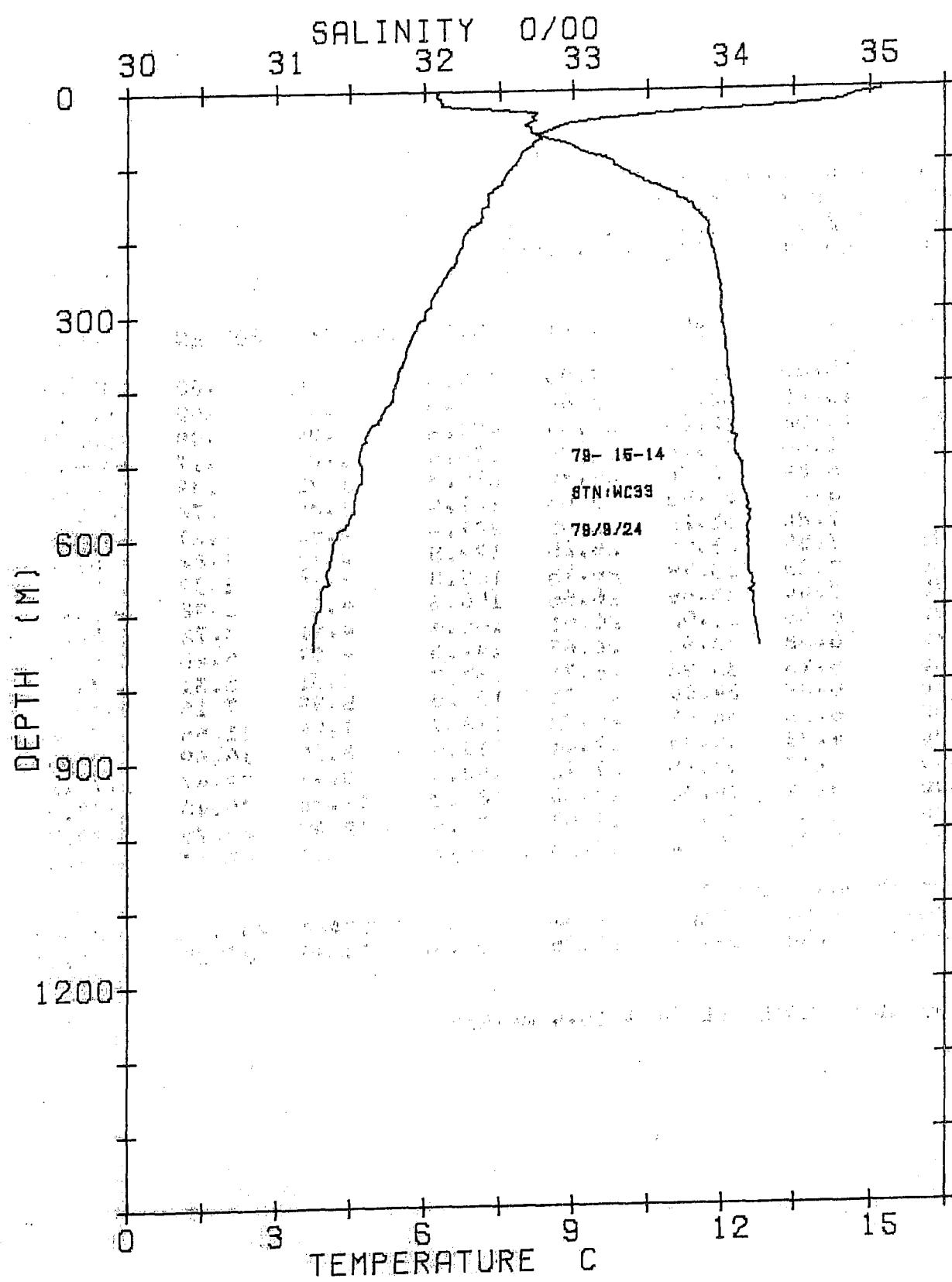
STATION: NC33 CONS #013
 LAT N 49 23.5 LONG W 127 55.0
 DATE 79/09/24 TIME (PST) 1507

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
0	15.23	31.89	23.55	434.8	.00	.00	1504.3
10	15.00	32.00	23.68	422.3	.43	.02	1503.9
20	14.58	32.09	23.84	407.4	.84	.08	1502.8
30	11.69	32.70	24.88	308.4	1.20	.17	1494.0
50	8.64	32.70	25.40	259.3	1.75	.39	1483.2
75	8.25	32.93	25.63	237.5	2.38	.78	1482.4
100	7.80	33.25	25.95	207.9	2.93	1.27	1481.5
125	7.50	33.58	26.25	179.5	3.43	1.82	1481.2
150	7.25	33.79	26.45	160.8	3.85	2.39	1480.9
175	7.04	33.89	26.56	150.6	4.23	3.02	1480.6
200	6.86	33.92	26.61	146.4	4.61	3.72	1480.4
225	6.68	33.96	26.67	141.6	4.97	4.48	1480.1
250	6.48	33.98	26.71	137.7	5.31	5.31	1479.7
300	6.09	34.00	26.78	131.8	5.99	7.16	1479.0
400	5.36	34.07	26.92	118.7	7.24	11.55	1477.8
500	4.76	34.09	27.01	110.9	8.39	16.69	1477.0
600	4.17	34.15	27.12	100.8	9.44	22.47	1476.2
800	3.74	34.32	27.30	85.3	11.30	35.45	1477.9
1000	3.34	34.44	27.43	73.5	12.90	49.75	1479.7
1200	2.99	34.52	27.53	64.6	14.27	64.83	1481.6

DEEPEST MEASUREMENT :

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
1230.0	2.92	34.54	27.55	62.9	14.46	67.15	1481.8

WIND MIXED LAYER DEPTH = 16.4 METRES



CRUISE : C.O.D.E. 79-15.

STATION: WC33 CONS #014

LAT N 49 23.5 LONG W 127 55.0

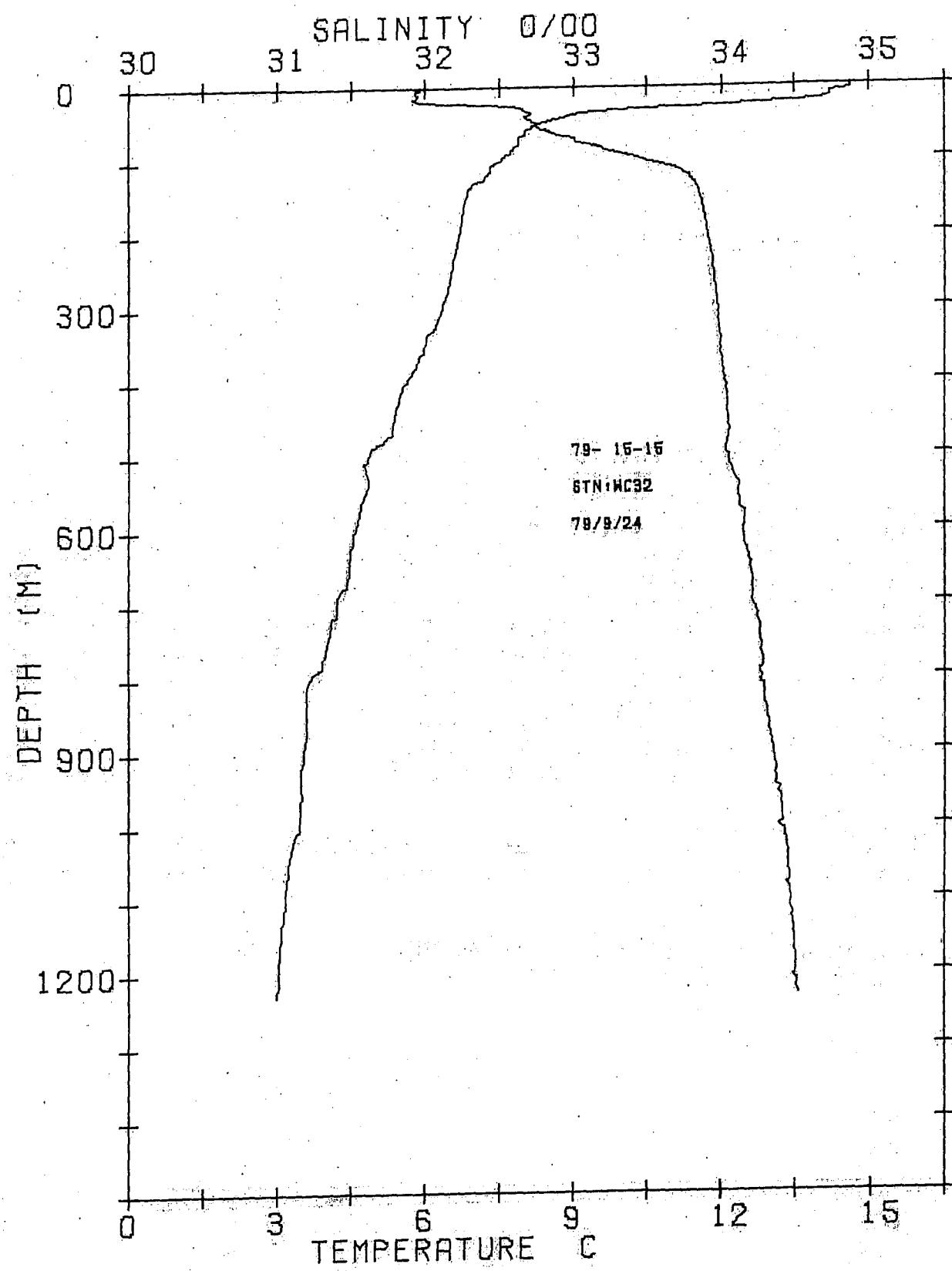
DATE 79/09/24 TIME (PST) 1608

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT-EN	SOUND
0	15.21	32.09	23.71	419.6	.00	.00	1504.5
10	14.74	32.10	23.82	409.3	.42	.02	1503.2
20	14.33	32.11	23.91	400.9	.82	.08	1502.0
30	11.23	32.74	25.00	297.3	1.17	.17	1492.4
50	8.69	32.71	25.40	259.9	1.71	.38	1483.4
75	8.16	33.01	25.71	230.2	2.33	.77	1482.1
100	7.84	33.28	25.98	205.5	2.87	1.24	1481.7
125	7.52	33.51	26.20	184.8	3.36	1.78	1481.1
150	7.29	33.76	26.43	163.5	3.79	2.38	1481.0
175	7.12	33.89	26.55	152.0	4.18	3.01	1480.9
200	6.76	33.92	26.63	145.0	4.55	3.70	1479.9
225	6.63	33.96	26.68	140.6	4.91	4.46	1479.9
250	6.41	33.98	26.72	137.0	5.26	5.29	1479.4
300	6.02	34.00	26.78	131.0	5.92	7.12	1478.7
400	5.41	34.06	26.91	119.9	7.17	11.49	1478.0
500	4.70	34.12	27.04	108.3	8.31	16.62	1476.8
600	4.24	34.18	27.13	99.8	9.36	22.35	1476.6

DEEPEST MEASUREMENT :

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT-EN	SOUND
750.1	3.77	34.26	27.25	89.4	10.78	31.94	1477.2

WIND MIXED LAYER DEPTH = 16.0 METRES



CRUISE : C.O.D.E. 79-15.

STATION: WC32 CONS #015
 LAT N 49 29.0 LONG W 127 46.5
 DATE 79/09/24 TIME (PST) 1756

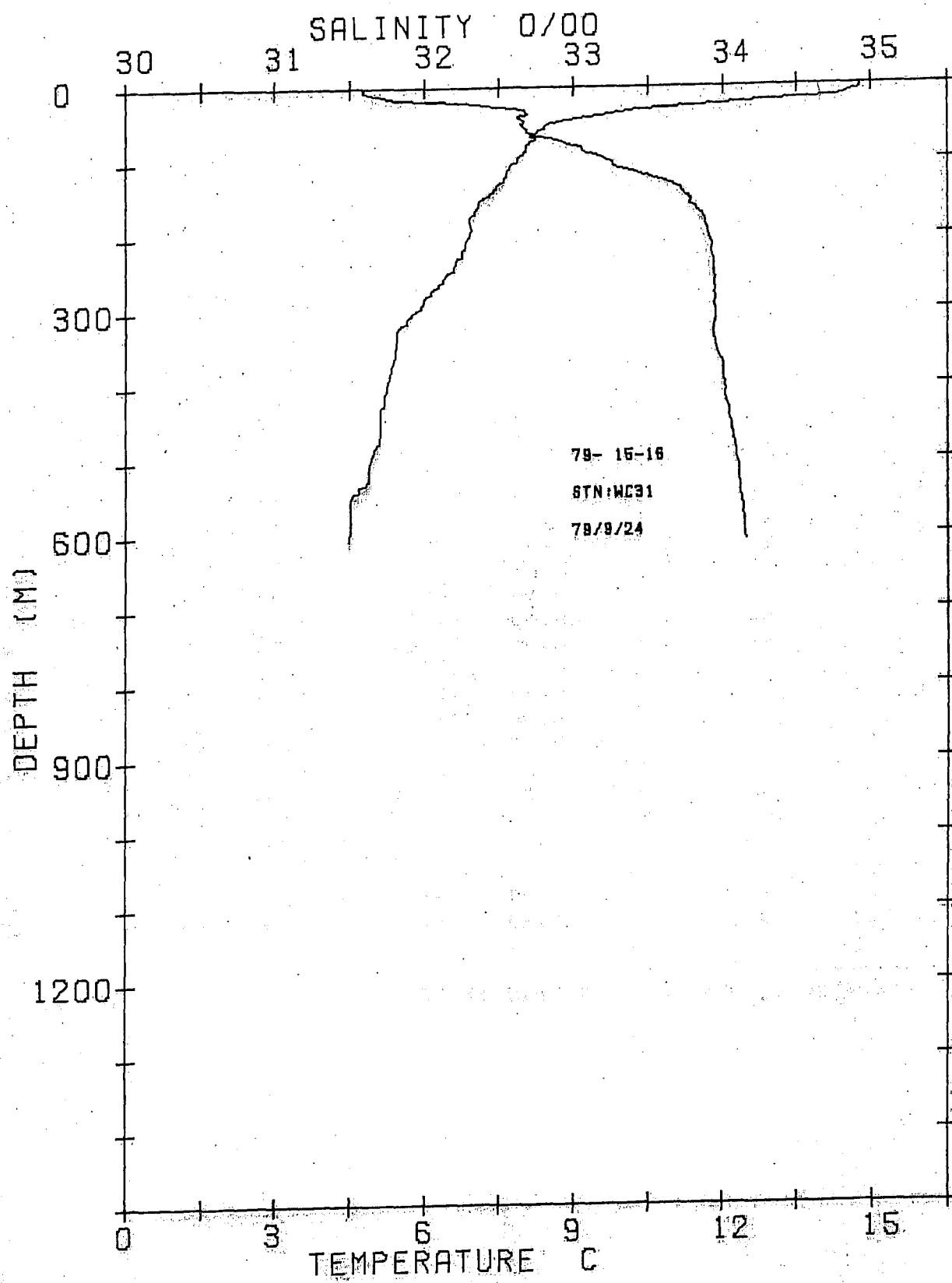
DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
0	14.64	31.97	23.74	416.3	.00	.00	1502.5
10	14.23	31.95	23.81	410.5	.42	.02	1501.3
20	14.11	31.97	23.85	406.9	.83	.08	1501.1
30	10.33	32.65	25.09	288.6	1.16	.16	1489.1
50	8.33	32.74	25.47	252.3	1.69	.38	1482.0
75	7.89	33.02	25.76	225.3	2.29	.75	1481.1
100	7.54	33.49	26.18	186.2	2.80	1.19	1480.8
125	7.20	33.80	26.47	158.5	3.22	1.66	1480.3
150	6.83	33.86	26.56	150.1	3.60	2.19	1479.3
175	6.76	33.89	26.60	147.1	3.97	2.79	1479.5
200	6.70	33.91	26.63	145.1	4.34	3.48	1479.7
225	6.64	33.93	26.65	142.8	4.70	4.24	1479.9
250	6.55	33.95	26.68	140.9	5.05	5.08	1479.9
300	6.35	33.98	26.72	137.1	5.75	7.00	1480.0
400	5.64	34.02	26.85	125.8	7.07	11.60	1478.8
500	4.87	34.05	26.96	115.5	8.28	17.04	1477.4
600	4.59	34.15	27.07	105.6	9.38	23.07	1478.0
800	3.68	34.28	27.27	87.5	11.30	36.50	1477.6
1000	3.46	34.40	27.39	77.2	12.92	51.05	1480.1
1200	3.04	34.51	27.51	66.0	14.31	66.29	1481.8

DEEPEST MEASUREMENT :

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
1230.0	3.00	34.53	27.53	64.5	14.51	68.69	1482.2

WIND MIXED LAYER DEPTH = 18.3 METRES

240



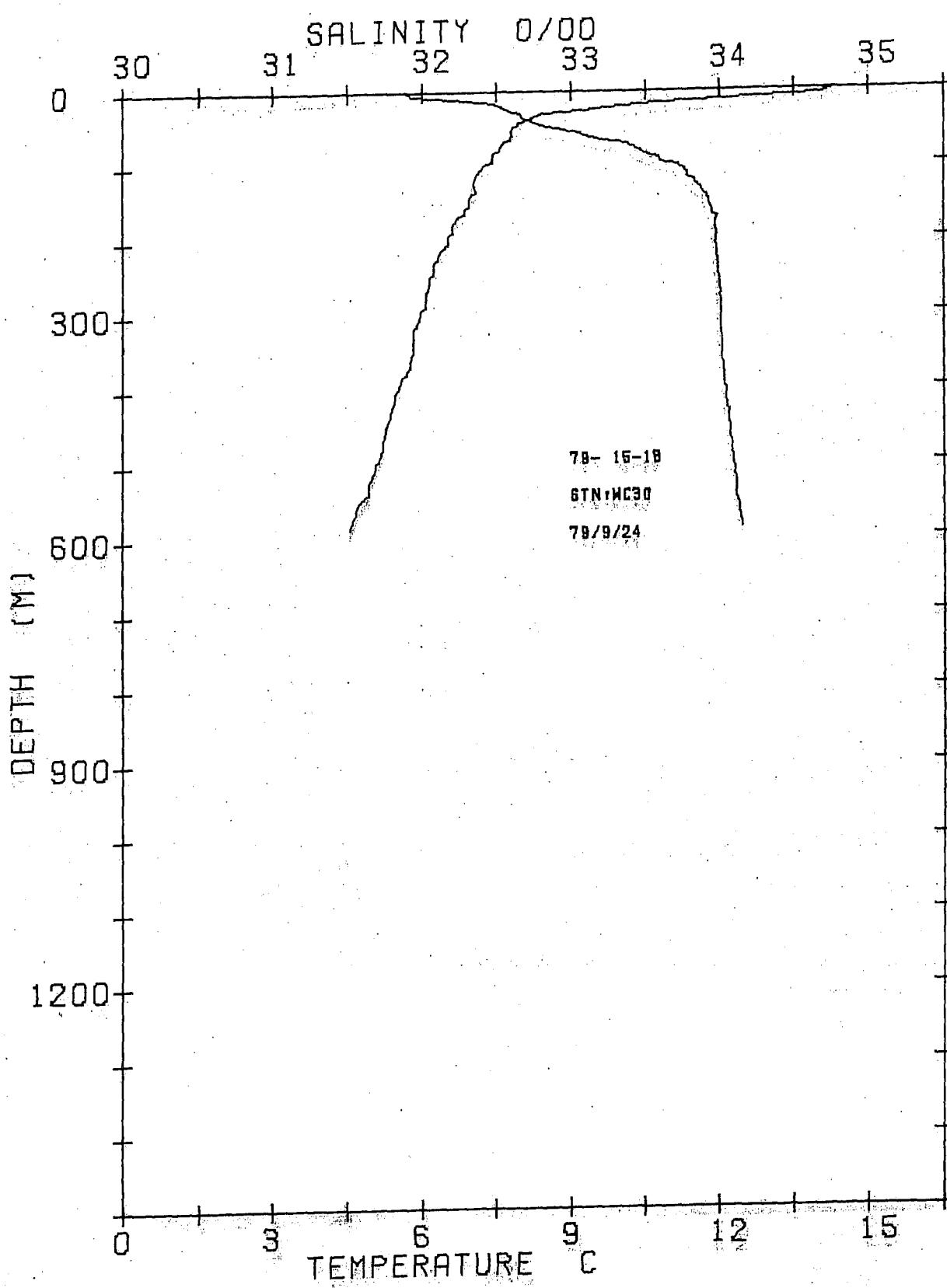
CRUISE : C.O.D.E. 79-15.
 STATION: WC31 CONS #016
 LAT N 49 34.5 LONG W 127 38.0
 DATE 79/09/24 TIME (PST) 2023

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
0	14.77	31.59	23.42	447.1	.00	.00	1502.5
10	14.58	31.68	23.53	437.4	.44	.02	1502.1
20	12.92	32.26	24.31	362.8	.86	.08	1497.5
30	10.34	32.67	25.10	287.5	1.18	.16	1489.1
50	8.50	32.65	25.38	261.4	1.72	.38	1482.6
75	8.10	32.97	25.69	232.0	2.35	.77	1481.9
100	7.86	33.26	25.95	208.0	2.90	1.25	1481.8
125	7.58	33.62	26.27	177.5	3.38	1.79	1481.5
150	7.17	33.79	26.47	159.6	3.80	2.37	1480.6
175	6.91	33.88	26.57	149.8	4.19	3.00	1480.1
200	6.90	33.91	26.60	147.9	4.56	3.70	1480.5
225	6.74	33.93	26.64	144.3	4.93	4.47	1480.3
250	6.46	33.94	26.68	140.2	5.28	5.32	1479.6
300	5.81	33.95	26.77	132.3	5.96	7.19	1477.8
400	5.25	34.02	26.90	121.0	7.23	11.61	1477.3
500	4.93	34.11	27.00	111.6	8.40	16.86	1477.7
600	4.51	34.16	27.09	103.9	9.47	22.73	1477.7

DEEPEST MEASUREMENT :

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
605.1	4.49	34.17	27.10	103.0	9.52	23.04	1477.7

WIND MIXED LAYER DEPTH = 10.8 METRES



CRUISE : C.O.D.E. 79-15.

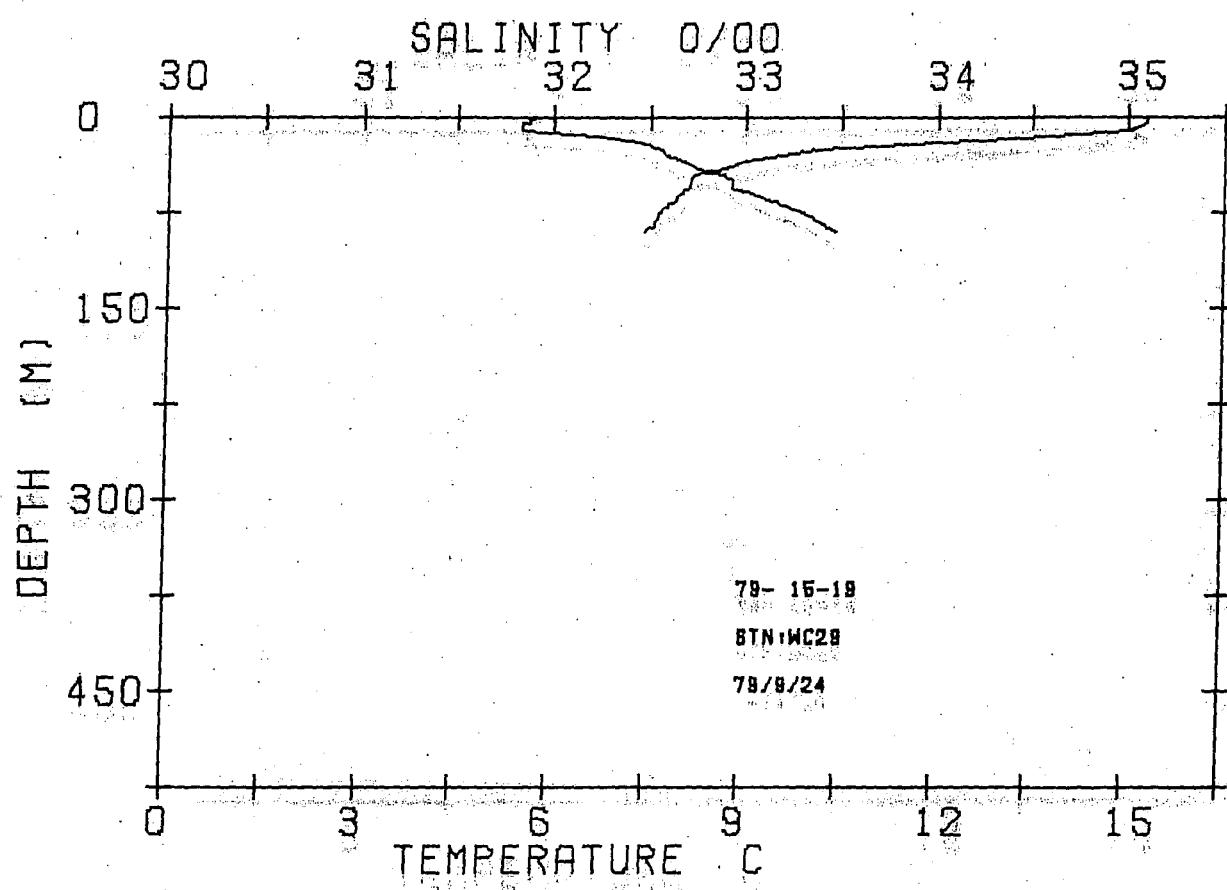
STATION: WC30 CONS #018
 LAT N 49 40.5 LONG W 127 29.0
 DATE 79/09/24 TIME (PST) 2230

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
0	14.33	31.89	23.74	416.7	.00	.00	1501.4
10	12.81	32.19	24.28	365.2	.40	.02	1496.9
20	10.02	32.53	25.05	292.5	.72	.07	1487.6
30	8.46	32.66	25.39	259.9	.99	.13	1482.1
50	7.82	32.90	25.68	232.9	1.49	.33	1480.3
75	7.59	33.42	26.12	191.6	2.02	.66	1480.5
100	7.26	33.72	26.40	165.5	2.47	1.05	1480.0
125	7.02	33.85	26.53	152.8	2.87	1.50	1479.6
150	6.92	33.93	26.61	145.7	3.24	2.01	1479.8
175	6.65	33.97	26.68	140.0	3.60	2.59	1479.2
200	6.52	33.98	26.70	137.7	3.94	3.24	1479.1
225	6.29	33.99	26.74	134.4	4.28	3.96	1478.6
250	6.16	34.00	26.76	132.3	4.62	4.76	1478.5
300	5.96	34.01	26.80	129.4	5.27	6.56	1478.5
400	5.51	34.05	26.89	122.2	6.54	10.99	1478.4
500	5.09	34.10	26.98	114.1	7.72	16.31	1478.3

DEEPEST MEASUREMENT :

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
585.0	4.57	34.16	27.08	104.7	8.66	21.36	1477.7

WIND MIXED LAYER DEPTH = 4.5 METRES



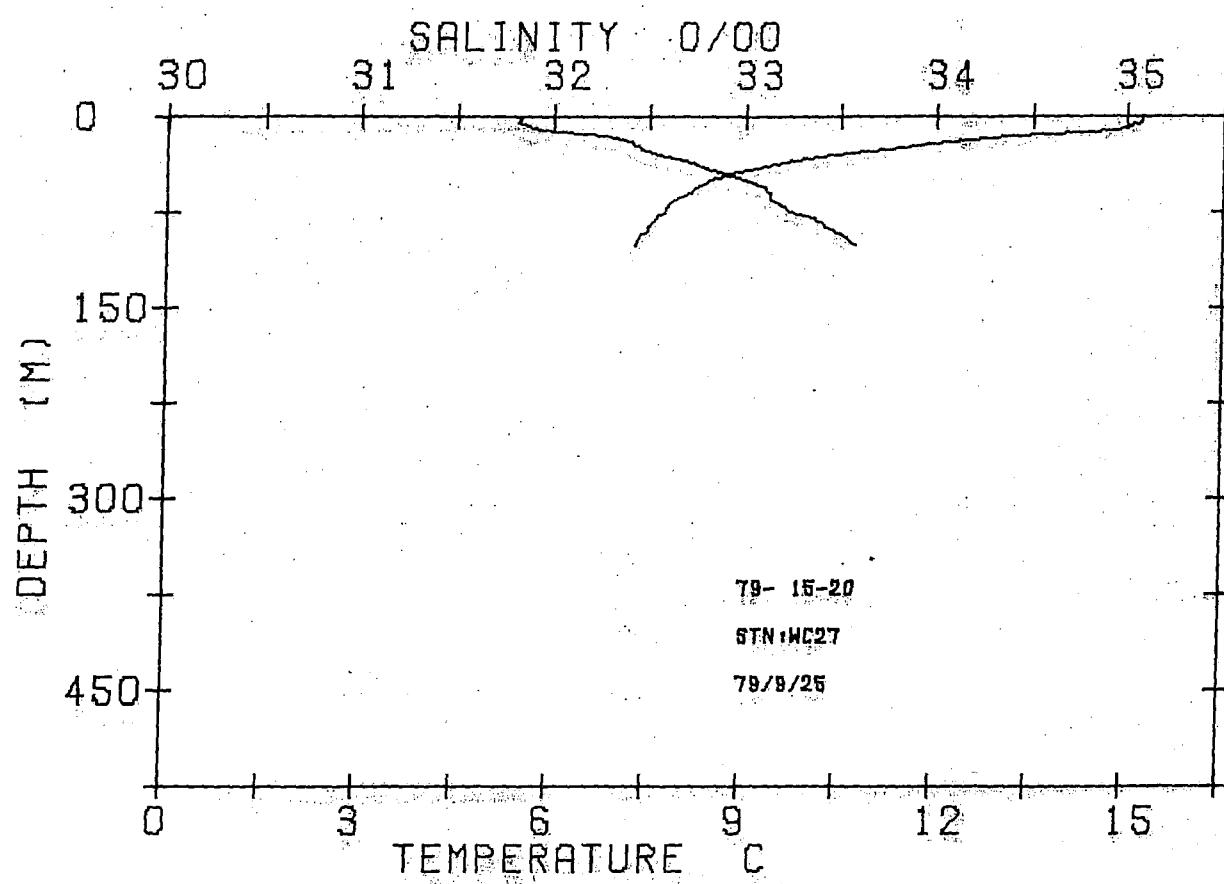
CRUISE : C.O.D.E. 79-15.

STATION: WC29 CONS #019
 LAT N 49 46.0 LONG W 127 20.0
 DATE 79/09/24 TIME (PST) 2343

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
0	15.29	31.91	23.55	434.7	.00	.00	1504.5
10	15.06	31.84	23.55	434.8	.44	.02	1503.9
20	12.05	32.44	24.62	333.3	.82	.08	1494.7
30	9.60	32.59	25.16	281.8	1.12	.15	1486.3
50	8.15	32.93	25.65	235.2	1.63	.35	1481.6
75	7.69	33.30	26.01	201.5	2.18	.70	1480.7

DEEPEST MEASUREMENT :

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
90.0	7.44	33.48	26.19	185.0	2.47	.94	1480.2

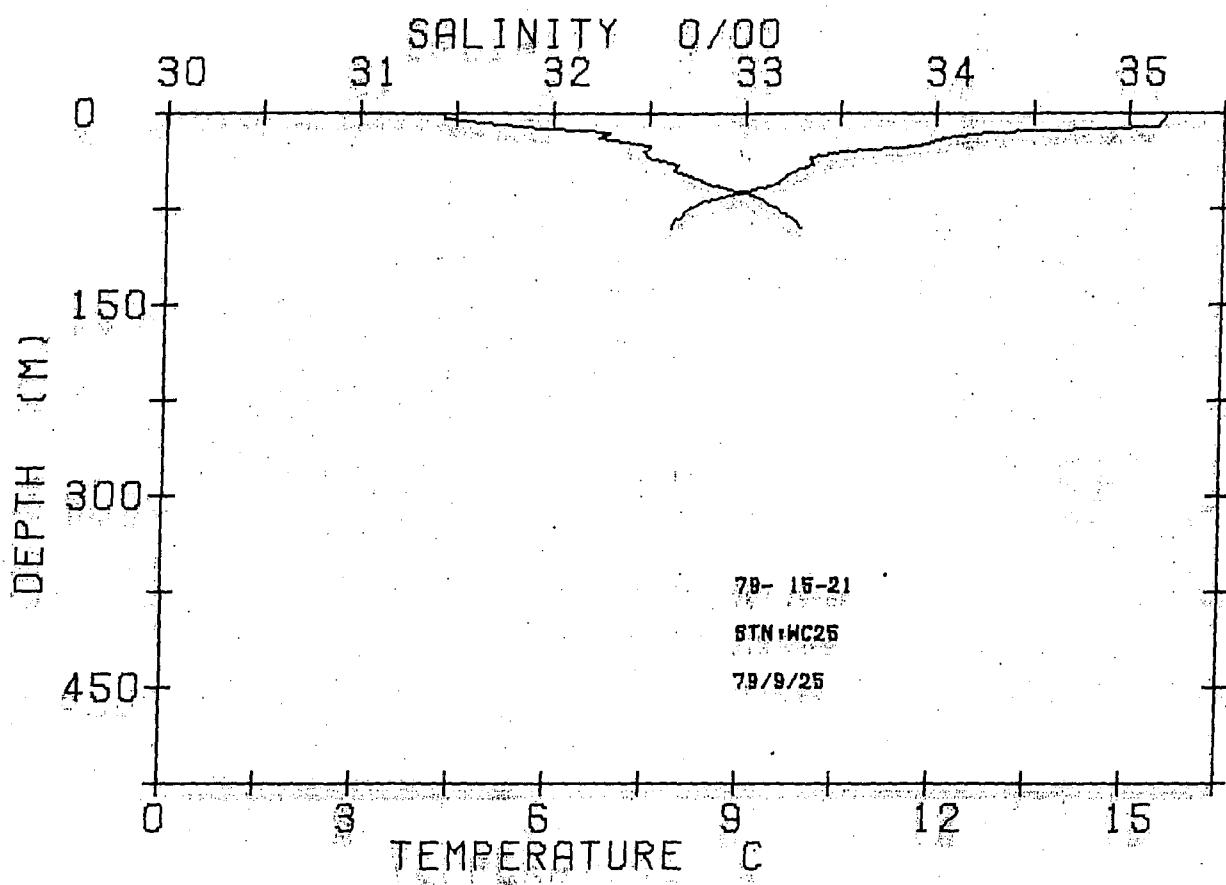


CRUISE : C.O.D.E. 79-15.
 STATION: WC27 CONS #020
 LAT N 49 36.0 LONG W 127 01.1
 DATE 79/09/25 TIME (PST) 0159

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
0	15.25	31.83	23.51	439.2	.00	.00	1504.3
10	14.90	31.93	23.65	425.4	.44	.02	1503.5
20	12.19	32.41	24.57	338.0	.81	.08	1495.2
30	10.41	32.55	25.00	297.3	1.13	.16	1489.2
50	8.49	33.00	25.66	235.1	1.65	.36	1483.0
75	7.75	33.24	25.95	207.4	2.20	.70	1480.9
100	7.30	33.58	26.29	176.0	2.67	1.12	1480.0

DEEPEST MEASUREMENT :

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
100.1	7.30	33.58	26.29	175.9	2.68	1.12	1480.0

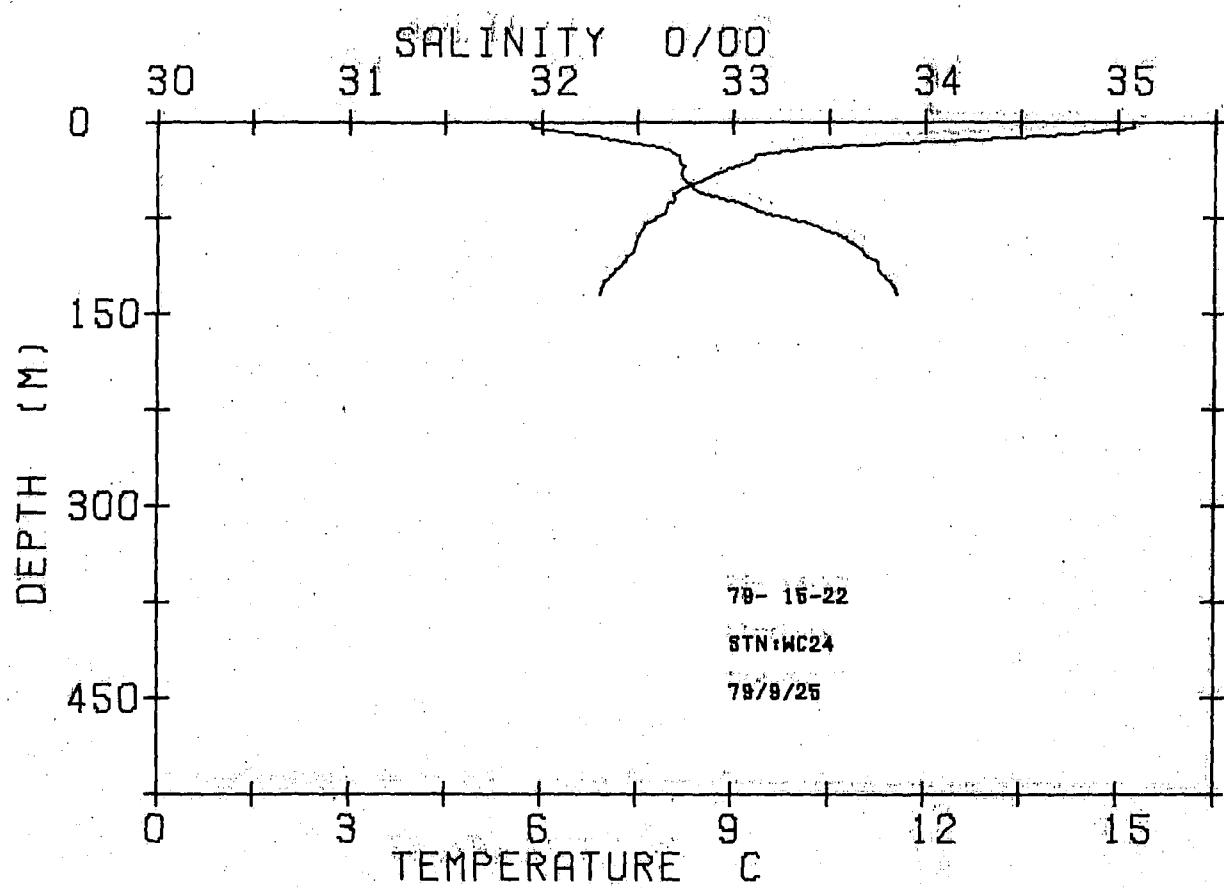


CRUISE : C.O.D.E. 79-15.
 STATION: WC25 CONS #021
 LAT N 49 21.5 LONG W 126 44.5
 DATE 79/09/25 TIME (PST) 0409

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
0	15.56	31.43	23.13	475.4	.00	.00	1504.8
10	15.47	31.83	23.45	444.5	.47	.02	1505.2
20	12.12	32.24	24.45	349.8	.84	.08	1494.7
30	10.61	32.48	24.91	306.2	1.17	.16	1489.9
50	9.65	32.71	25.25	273.7	1.75	.39	1487.0
75	8.13	33.18	25.85	216.8	2.36	.77	1482.3

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
DEEPEST MEASUREMENT :							
90.0	7.86	33.30	25.98	204.5	2.67	1.03	1481.6

250

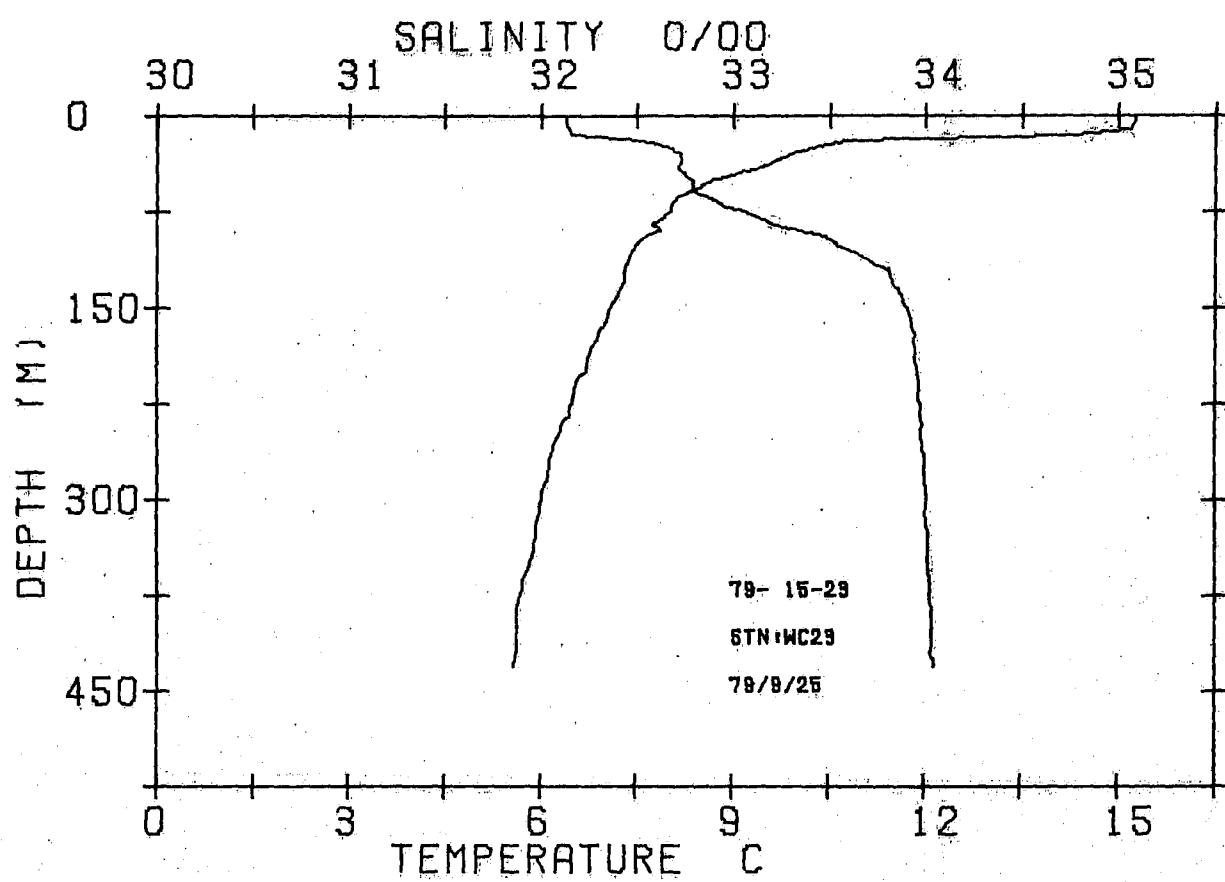


CRUISE : C.O.D.E. 79-15.
 STATION: WC24 CONS #022
 LAT N 49 15.5 LONG W 126 53.0
 DATE 79/09/25 TIME (PST) 0539

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT. EN	SOUND
0	15.24	31.94	23.59	431.2	.00	.00	1504.4
10	13.89	32.29	24.14	378.9	.42	.02	1500.6
20	10.40	32.63	25.06	291.4	.75	.07	1489.1
30	9.29	32.72	25.31	267.3	1.03	.14	1485.3
50	8.34	32.79	25.51	248.8	1.54	.34	1482.2
75	7.79	33.28	25.98	205.0	2.11	.70	1481.1
100	7.45	33.68	26.34	170.6	2.57	1.10	1480.7
125	6.99	33.82	26.52	154.3	2.98	1.55	1479.5

DEEPEST MEASUREMENT :

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT. EN	SOUND
135.0	6.89	33.86	26.56	150.4	3.13	1.75	1479.3



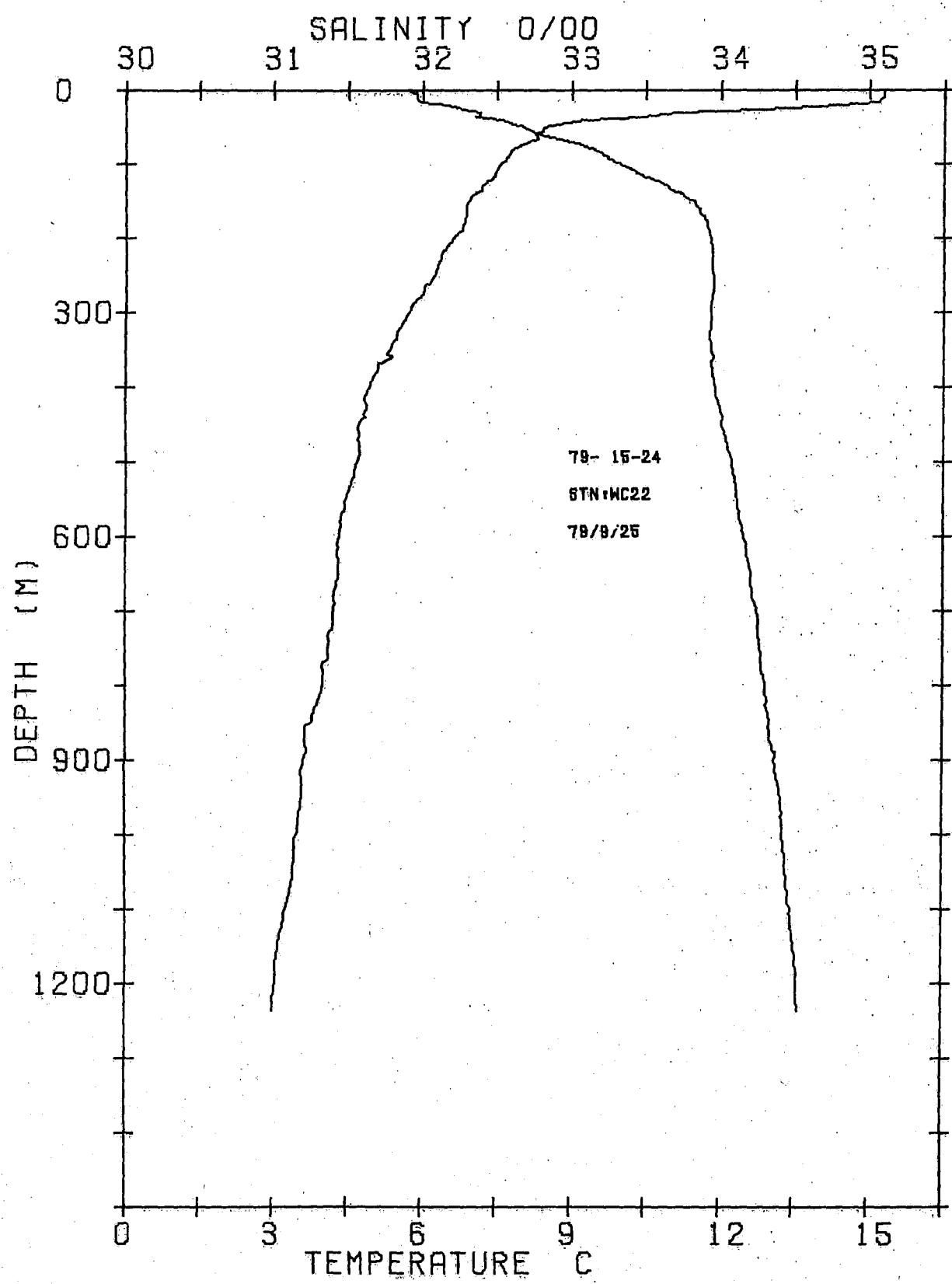
CRUISE : C.O.D.E. 79-15.
 STATION: WC23 CONS #023
 LAT N 49 10.0 LONG W 127 02.0
 DATE 79/09/25 TIME (PST) 0641

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
0	15.27	32.13	23.73	417.9	.00	.00	1504.7
10	15.22	32.15	23.75	415.9	.42	.02	1504.8
20	10.80	32.53	24.92	305.1	.80	.08	1490.4
30	9.95	32.73	25.21	277.1	1.08	.15	1487.8
50	8.70	32.78	25.45	254.3	1.62	.36	1483.5
75	8.03	33.07	25.78	223.9	2.22	.74	1481.7
100	7.54	33.54	26.22	182.3	2.73	1.18	1480.9
125	7.31	33.82	26.47	158.6	3.16	1.66	1480.7
150	7.11	33.91	26.57	149.8	3.54	2.19	1480.5
175	6.89	33.94	26.63	144.6	3.91	2.78	1480.1
200	6.73	33.96	26.66	141.6	4.27	3.45	1479.9
225	6.50	33.98	26.70	137.9	4.62	4.19	1479.4
250	6.29	33.98	26.74	135.1	4.96	5.00	1479.0
300	6.02	34.01	26.79	130.5	5.62	6.82	1478.7
400	5.64	34.04	26.87	124.3	6.89	11.28	1478.9

DEEPEST MEASUREMENT :

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
430.1	5.58	34.05	26.88	123.7	7.27	12.83	1479.2

WIND MIXED LAYER DEPTH = 11.4 METRES



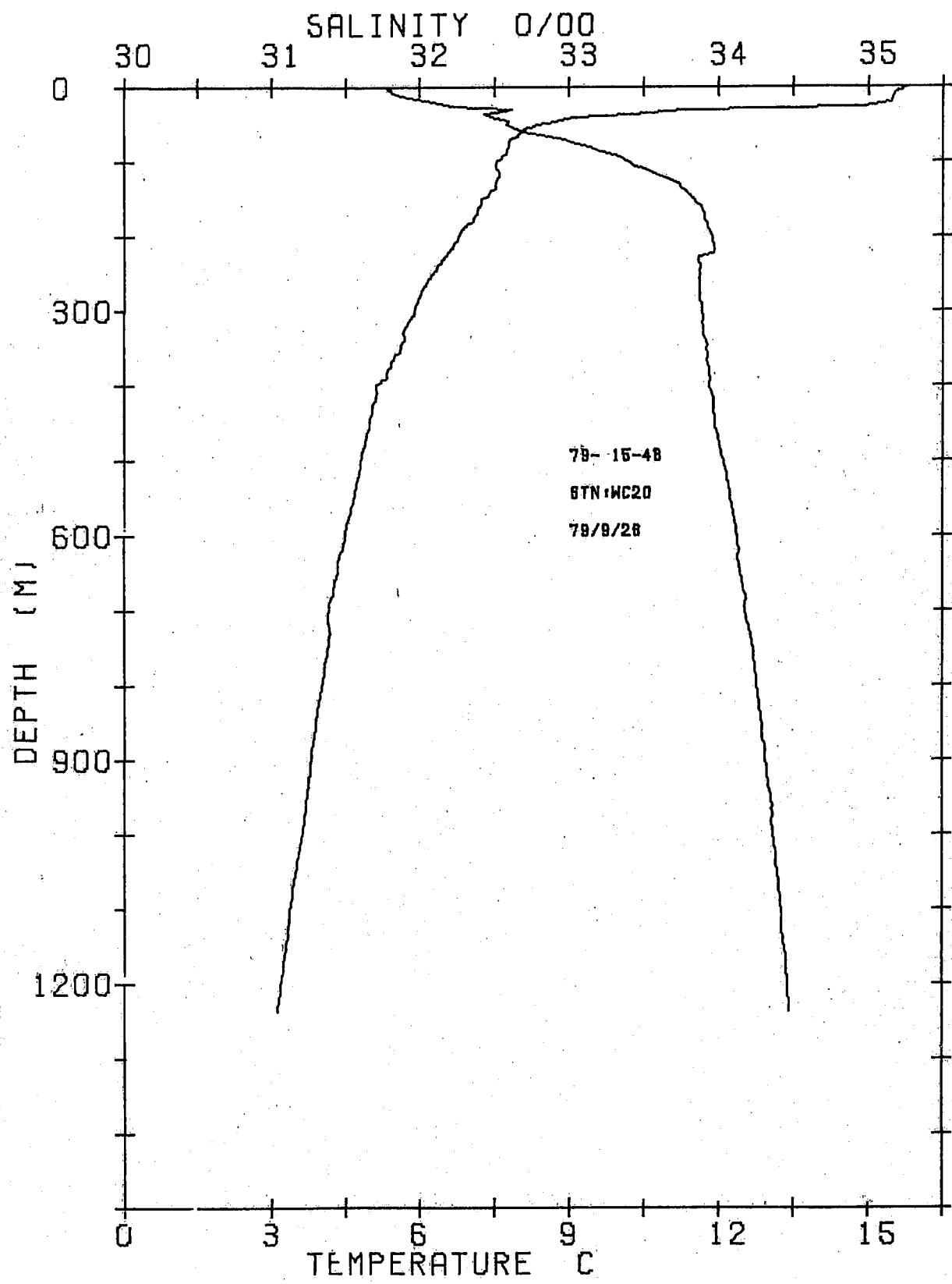
CRUISE : C.O.D.E. 79-15.
 STATION: WC22 CONS #024
 LAT N 49 04.5 LONG W 127 11.0
 DATE 79/09/25 TIME (PST) 0828

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
0	15.31	31.91	23.55	435.0	.00	.00	1504.6
10	15.29	31.96	23.59	431.3	.43	.02	1504.7
20	14.43	32.18	23.94	397.9	.85	.08	1502.4
30	11.13	32.38	24.74	321.8	1.21	.17	1491.6
50	8.47	32.69	25.41	258.0	1.79	.40	1482.5
75	8.00	33.10	25.80	221.4	2.39	.78	1481.7
100	7.61	33.34	26.05	198.1	2.92	1.23	1480.9
125	7.29	33.62	26.32	173.2	3.38	1.76	1480.4
150	6.96	33.83	26.53	153.9	3.79	2.32	1479.8
175	6.87	33.91	26.60	147.2	4.17	2.93	1479.9
200	6.67	33.94	26.65	142.9	4.53	3.61	1479.6
225	6.40	33.95	26.70	138.6	4.88	4.36	1478.9
250	6.26	33.96	26.72	136.5	5.23	5.17	1478.8
300	5.75	33.94	26.77	132.3	5.90	7.02	1477.5
400	4.96	33.97	26.89	121.7	7.17	11.47	1476.0
500	4.70	34.08	27.00	111.5	8.34	16.70	1476.7
600	4.34	34.16	27.11	102.1	9.40	22.56	1477.0
800	4.03	34.31	27.26	88.9	11.31	35.87	1479.2
1000	3.51	34.43	27.41	75.7	12.94	50.44	1480.4
1200	3.05	34.53	27.53	64.7	14.34	65.80	1481.9

DEEPEST MEASUREMENT :

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
1235.1	2.99	34.54	27.54	63.6	14.56	68.53	1482.2

WIND MIXED LAYER DEPTH = 15.4 METRES



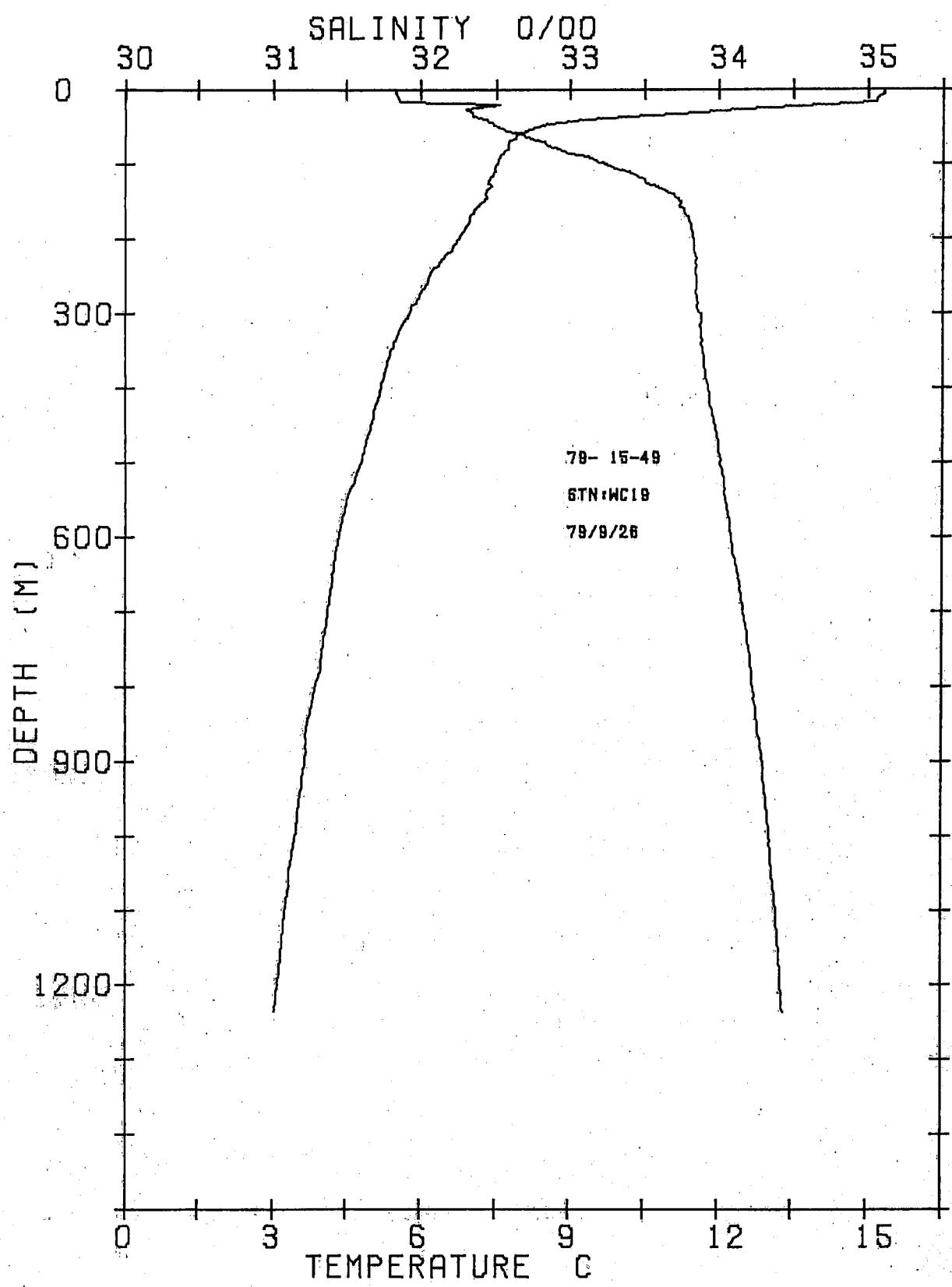
CRUISE : C.O.D.E. 79-15.
 STATION: WC20 CONS #048
 LAT N 48 53.5 LONG W 127 29.0
 DATE 79/09/26 TIME (PST) 1443

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
0	15.71	31.78	23.36	452.6	.00	.00	1505.7
10	15.49	31.84	23.45	444.3	.45	.02	1505.2
20	15.42	32.10	23.68	423.3	.88	.09	1505.5
30	11.36	32.61	24.87	309.4	1.27	.18	1492.7
50	8.34	32.59	25.35	263.8	1.84	.41	1481.9
75	7.73	33.06	25.81	220.5	2.44	.78	1480.6
100	7.50	33.40	26.11	192.5	2.95	1.23	1480.5
125	7.51	33.68	26.33	171.9	3.41	1.75	1481.3
150	7.21	33.82	26.49	157.7	3.82	2.31	1480.8
175	7.06	33.89	26.56	150.7	4.21	2.94	1480.7
200	6.75	33.95	26.65	143.1	4.58	3.62	1479.9
225	6.52	33.85	26.70	138.3	4.93	4.37	1479.3
250	6.24	33.86	26.72	136.8	5.27	5.19	1478.6
300	5.85	33.87	26.80	129.4	5.94	7.01	1477.9
400	5.09	33.92	26.94	116.9	7.16	11.29	1476.4
500	4.78	34.02	27.02	110.2	8.28	16.34	1476.9
600	4.44	34.11	27.10	102.9	9.35	22.18	1477.3
800	3.97	34.24	27.21	93.5	11.31	35.92	1478.8
1000	3.56	34.35	27.34	82.2	13.06	51.58	1480.5
1200	3.13	34.45	27.46	71.6	14.59	68.38	1482.1

DEEPEST MEASUREMENT :

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
1235.1	3.06	34.46	27.48	69.8	14.84	71.41	1482.4

WIND MIXED LAYER DEPTH = 21.2 METRES



CRUISE : C.O.D.E. 79-15.
 STATION: WC19 CONS #049
 LAT N 48 48.0 LONG W 127 37.5
 DATE 79/09/26 TIME (PST) 1643

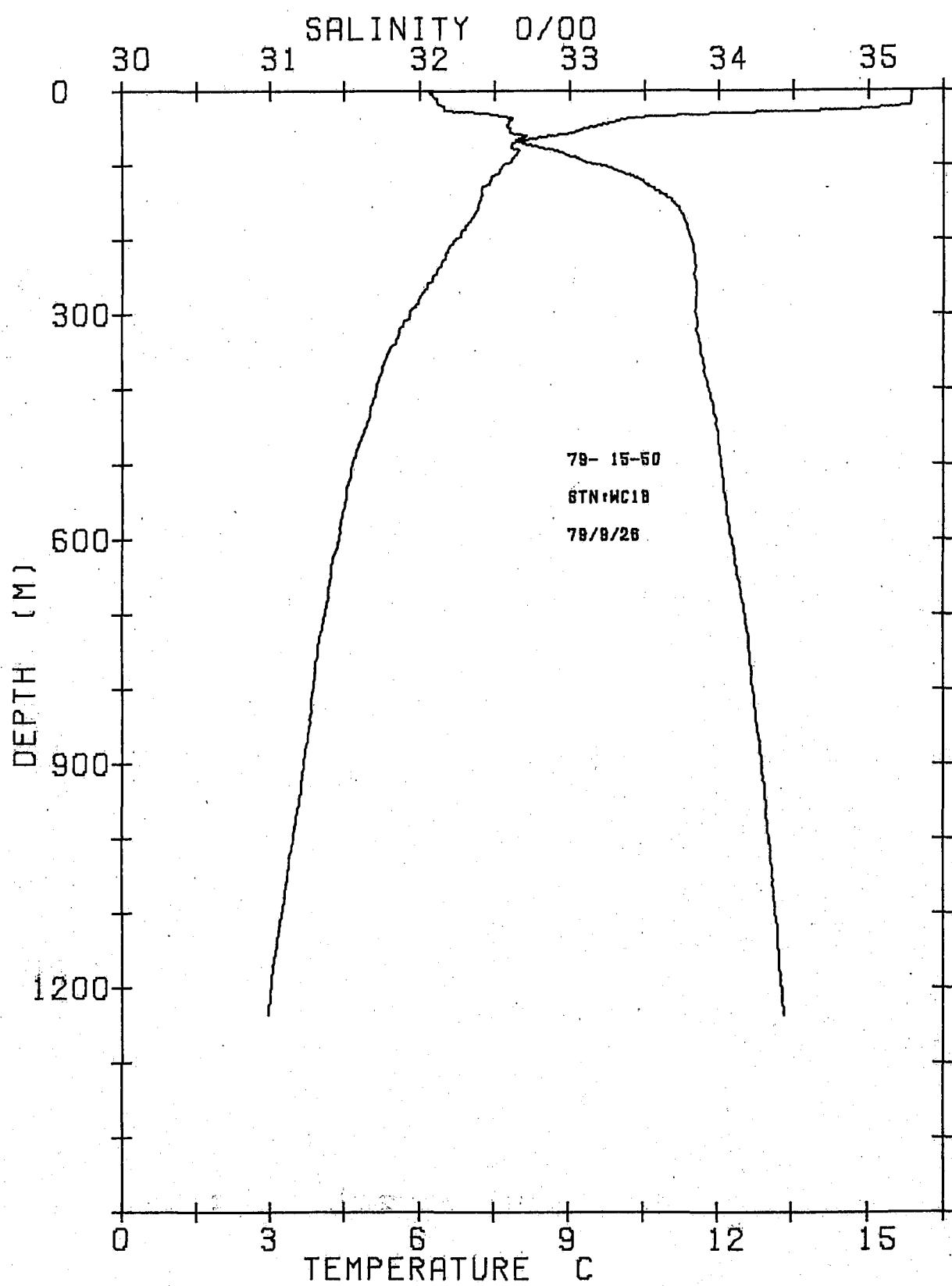
DEPTH	TEMP.	SAL	SIG-T	SVA	DELTA-D	POT. EN	SOUND
0	15.32	31.83	23.49	440.6	.00	.00	1504.5
10	15.25	31.85	23.52	438.2	.44	.02	1504.5
20	14.22	32.51	24.24	369.5	.86	.08	1502.1
30	11.63	32.34	24.62	333.7	1.21	.17	1493.3
50	8.36	32.51	25.29	269.4	1.80	.40	1481.9
75	7.74	32.86	25.66	235.0	2.42	.79	1480.4
100	7.52	33.24	25.99	204.1	2.97	1.27	1480.4
125	7.36	33.52	26.23	181.6	3.45	1.81	1480.5
150	7.26	33.74	26.41	164.5	3.88	2.40	1480.9
175	6.98	33.80	26.50	156.9	4.28	3.05	1480.2
200	6.77	33.83	26.55	152.1	4.67	3.77	1479.8
225	6.49	33.84	26.60	147.5	5.04	4.57	1479.2
250	6.18	33.85	26.64	143.8	5.40	5.43	1478.4
300	5.79	33.88	26.72	137.2	6.11	7.37	1477.6
400	5.22	33.93	26.83	127.4	7.44	12.00	1477.0
500	4.83	34.01	26.94	117.8	8.66	17.50	1477.2
600	4.38	34.09	27.05	107.6	9.78	23.65	1477.0
800	3.87	34.24	27.22	92.8	11.78	37.58	1478.4
1000	3.45	34.35	27.35	80.8	13.50	53.08	1480.0
1200	3.09	34.43	27.45	72.2	15.03	69.84	1481.9

DEEPEST MEASUREMENT :

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT. EN	SOUND
1235.1	3.02	34.45	27.47	70.6	15.28	72.90	1482.2

WIND MIXED LAYER DEPTH = 14.5 METRES

260



CRUISE : C.O.D.E. 79-15.

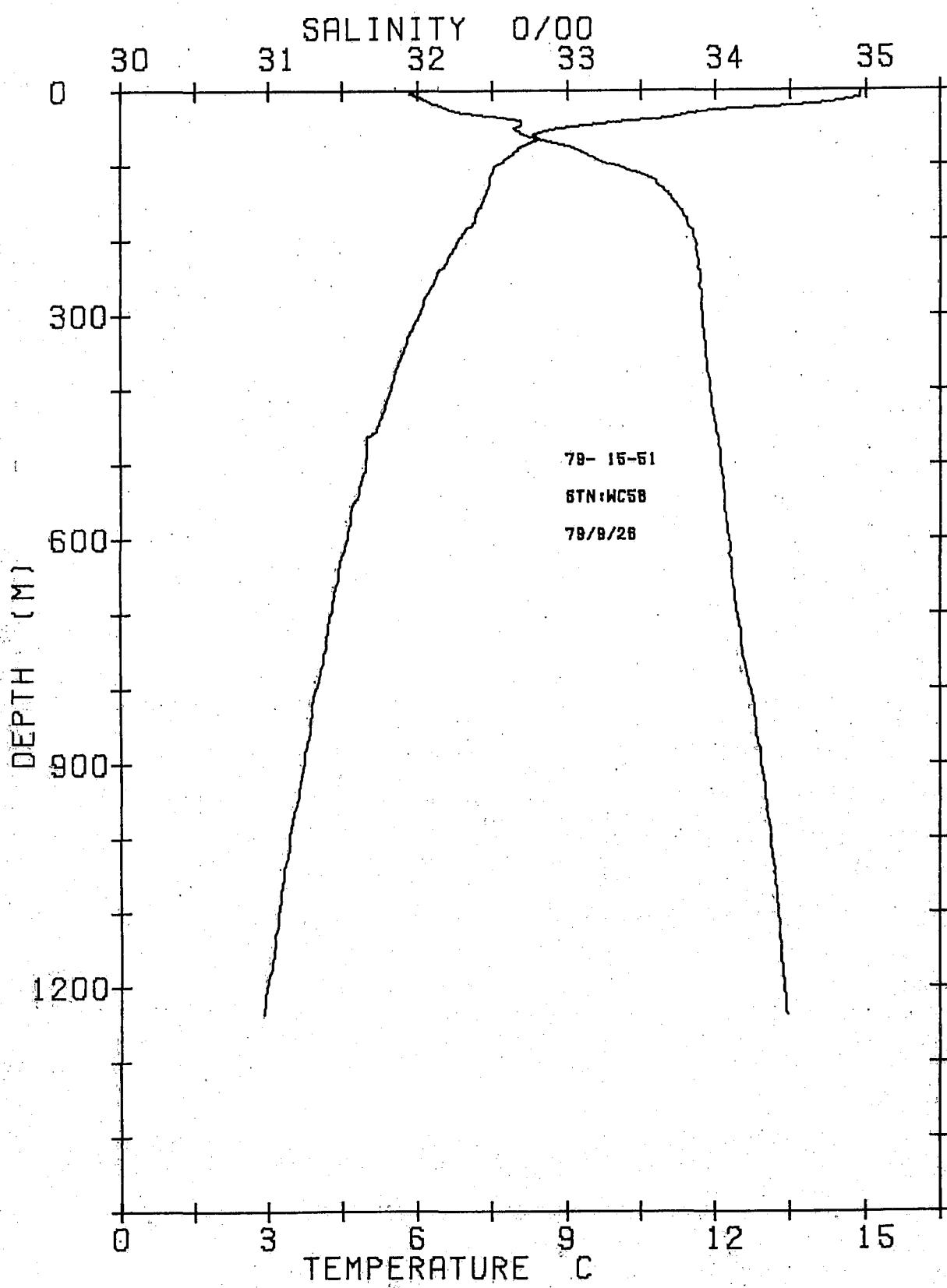
STATION: WC18 CONS #050
 LAT N 48 42.0 LONG W 127 46.0
 DATE 79/09/26 TIME (PST) 1827

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
0	15.89	32.06	23.54	435.9	.00	.00	1506.6
10	15.88	32.11	23.58	432.4	.43	.02	1506.8
20	15.85	32.16	23.63	428.1	.86	.09	1506.9
30	12.18	32.43	24.59	336.8	1.26	.18	1495.3
50	9.34	32.60	25.21	277.4	1.84	.42	1485.7
75	7.83	32.81	25.61	240.1	2.49	.82	1480.6
100	7.69	33.24	25.96	207.0	3.05	1.31	1481.1
125	7.37	33.52	26.22	182.3	3.54	1.85	1480.6
150	7.21	33.70	26.39	166.4	3.97	2.45	1480.6
175	7.01	33.78	26.48	158.6	4.38	3.11	1480.3
200	6.71	33.82	26.55	152.1	4.76	3.83	1479.6
225	6.52	33.84	26.59	148.6	5.14	4.63	1479.3
250	6.27	33.84	26.63	145.3	5.51	5.50	1478.7
300	5.82	33.85	26.69	139.7	6.22	7.45	1477.7
400	5.15	33.94	26.84	125.9	7.54	12.09	1476.8
500	4.68	34.02	26.96	115.4	8.75	17.50	1476.5
600	4.40	34.10	27.05	107.5	9.86	23.63	1477.1
800	3.89	34.24	27.22	92.4	11.85	37.45	1478.4
1000	3.48	34.35	27.35	81.3	13.58	53.06	1480.2
1200	3.03	34.44	27.46	71.3	15.11	69.79	1481.7

DEEPEST MEASUREMENT :

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
1235.1	2.96	34.45	27.47	69.9	15.35	72.79	1482.0

WIND MIXED LAYER DEPTH = 22.1 METRES



CRUISE : C.O.D.E. 79-15.

STATION: WC58 CONS #051
 LAT N 48 48.5 LONG W 126 52.5
 DATE 79/09/26 TIME (PST) 2317

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
0	14.88	31.95	23.67	423.0	.00	.00	1503.3
10	14.87	32.04	23.75	416.3	.42	.02	1503.5
20	13.60	32.16	24.10	383.0	.82	.08	1499.7
30	11.51	32.32	24.63	332.9	1.18	.17	1492.9
50	8.85	32.65	25.33	265.9	1.76	.40	1483.9
75	8.06	33.04	25.75	226.7	2.38	.78	1481.8
100	7.61	33.35	26.06	197.6	2.91	1.25	1480.9
125	7.47	33.62	26.29	175.9	3.37	1.77	1481.1
150	7.32	33.74	26.41	165.4	3.80	2.35	1481.1
175	7.16	33.81	26.48	158.5	4.20	3.01	1481.0
200	6.85	33.87	26.57	150.1	4.59	3.73	1480.2
225	6.63	33.89	26.62	146.0	4.96	4.51	1479.8
250	6.40	33.90	26.65	142.8	5.32	5.37	1479.3
300	6.05	33.92	26.72	137.3	6.02	7.29	1478.7
400	5.48	33.97	26.83	127.4	7.34	11.91	1478.1
500	4.99	34.04	26.94	117.5	8.56	17.38	1477.9
600	4.61	34.10	27.03	109.8	9.69	23.61	1478.0
800	3.99	34.25	27.22	93.2	11.74	37.89	1478.9
1000	3.46	34.38	27.37	78.8	13.46	53.33	1480.1
1200	2.97	34.47	27.49	68.0	14.93	69.46	1481.5

DEEPEST MEASUREMENT :

DEPTH	TEMP	SAL	SIG-T	SVA	DELTA-D	POT.EN	SOUND
1235.1	2.91	34.49	27.51	66.4	15.16	72.33	1481.8

WIND MIXED LAYER DEPTH = 10.0 METRES

THIS PAGE IS BLANK

OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 15- 1 DATE 23/ 9/79 GMT 2.4

POSITION 50- 5.8 N, 127-56.4 W

STATION WC47

HYDROGRAPHIC CAST DATA

OBSERVED DATA

DEPTH	TEMP	SAL	OXY
0	31.994	5.403	
10	31.992	5.440	
20	32.073	5.286	
30	32.236	4.946	
50	32.666	4.217	

OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 15- 3 DATE 23/ 9/79 GMT 5.8

POSITION 49-57.0 N, 128-12.5 W

STATION WC45

HYDROGRAPHIC CAST DATA

OBSERVED DATA

DEPTH	TEMP	SAL	OXY
30		5.353	
50		5.384	
75		4.247	
100		4.283	
150		3.738	
200		2.976	
350		2.140	
1000		.485	

OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 15- 5 DATE 23/ 9/79 GMT 15.4
 POSITION 49-47.0 N, 128-29.0 W STATION WC43
 HYDROGRAPHIC CAST DATA

OBSERVED DATA

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

0	31.703	6.460
10	31.702	6.273
30	31.705	6.349
50	32.540	6.389
75	32.872	3.313
100	33.281	4.303
150	33.796	3.536
200	33.888	3.005
350	33.987	1.772
500	34.043	1.159
750	34.234	.553
1000	34.407	.505

OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 15- 8 DATE 23/ 9/79 GMT 23.4
 POSITION 49-31.5 N, 128-57.5 W STATION WC40
 HYDROGRAPHIC CAST DATA

OBSERVED DATA

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

0	15.68	32.101	
10		32.100	5.954
30	10.15	32.369	5.986
50		32.664	5.824
75	7.61	32.918	5.060
100		33.345	4.142
150	6.93	33.792	3.347
200		33.909	2.897
350		33.975	1.748
500		34.067	1.018
750	3.86	34.251	.542
1000		34.371	.614

OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 15- 9 DATE 24/ 9/79 GMT 3.2

POSITION 49-18.4 N, 128-36.0 W

STATION WC38

HYDROGRAPHIC CAST DATA

OBSERVED DATA

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

30		32.150	5.656
50		32.913	3.861
75		33.325	4.081
100		33.621	3.399
150		33.829	3.005
200		33.922	2.766
350	8.59	33.843	3.002
500		34.076	.972
750	3.68	34.298	.480
1000		34.369	.504

OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 15- 10 DATE 24/ 9/79 GMT 7.0

POSITION 49- 6.5 N, 128-21.0 W

STATION WC36

HYDROGRAPHIC CAST DATA

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

0		32.145	
10		32.176	
30		32.127	
50		32.445	
75		32.711	
100		33.070	
150		33.813	
200		33.906	
350		33.973	
500		34.096	
750		34.258	
1000		34.426	

OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 15- 16 DATE 24/ 9/79 GMT 20.4
 POSITION 49-34.5 N, 127-35.0 W STATION WC31
 HYDROGRAPHIC CAST DATA

OBSERVED DATA

DEPTH	TEMP	SAL	OXY
0	14.68	31.692	7.637
10		31.690	6.775
20	12.31	32.302	6.263
30		32.647	6.517
50	8.19	32.779	5.938
75		33.117	5.193
100	7.70	33.362	4.599
150		33.776	2.662
200	6.85	33.894	2.121
350		33.953	2.171
500	4.92	34.101	1.022
600		34.149	.701

OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 15- 19 DATE 24/ 9/79 GMT 23.7
 POSITION 49-46.0 N, 127-20.0 W STATION WC29
 HYDROGRAPHIC CAST DATA

OBSERVED DATA

DEPTH	TEMP	SAL	OXY
0	15.36	31.781	
10		31.769	6.902
20	10.73	32.430	5.206
30		32.525	5.110
50	8.20	32.831	4.001
75		33.269	3.795

OFFSHORE OCEANOGRAPHY GROUP
 REFERENCE NO. 79- 15- 20
 POSITION 49-35.5 N, 127- .0 W
 HYDROGRAPHIC CAST DATA

DATE 25/ 9/79 GMT 2.0
 STATION WC27

OBSERVED DATA

DEPTH	TEMP	SAL	OXY
0	31.705	6.842	
10	31.973	6.539	
20	32.302	5.226	
30	32.465	4.561	
50	32.904	3.833	
75	33.193	3.317	

OFFSHORE OCEANOGRAPHY GROUP
 REFERENCE NO. 79- 15- 21
 POSITION 49-21.0 N, 126-44.2 W
 HYDROGRAPHIC CAST DATA

DATE 25/ 9/79 GMT 4.2
 STATION WC25

OBSERVED DATA

DEPTH	TEMP	SAL	OXY
0	15.63	31.348	6.529
10		31.625	6.309
20	12.45	32.224	5.605
30		32.386	4.234
50	9.65	32.629	4.258
75		33.158	2.722

OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 15- 22

DATE 25/ 9/79

GMT 5.7

POSITION 49-15.5 N, 126-53.0 W

STATION WC24

HYDROGRAPHIC CAST DATA

OBSERVED DATA

DEPTH TEMP SAL OXY

0			6.626
10			6.680
20			5.188
30			6.648
50			5.734
75			4.299
100			3.747
125			1.940

OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 15- 23

DATE 25/ 9/79

GMT 6.7

POSITION 49-10.1 N, 127- 1.9 W

STATION WC23

HYDROGRAPHIC CAST DATA

OBSERVED DATA

DEPTH TEMP SAL OXY

0		31.987	6.300
10	14.41	32.012	6.616
30		32.679	6.856
50	8.83	32.711	6.511
75		32.889	5.223
100	7.62	33.443	2.518
150		33.863	3.204
200	6.75	33.924	3.095
350		33.996	1.782

OFFSHORE OCEANOGRAPHY GROUP
 REFERENCE NO. 79- 15- 24 DATE 25/ 9/79 GMT 8.5
 POSITION 49- 4.5 N, 127-10.5 W STATION WC22
 HYDROGRAPHIC CAST DATA

OBSERVED DATA

DEPTH	TEMP	SAL	OXY
0	15.24		6.045
10			
30	9.80		4.910
50			
75	7.83		3.381
100			
150	6.89		2.057
200			
350	5.29		2.670
500			
750	4.04		1.712
1000			1.044
			.556
			.488

OFFSHORE OCEANOGRAPHY GROUP
 REFERENCE NO. 79- 15- 47 DATE 26/ 9/79 GMT 8.6
 POSITION 49- 4.5 N, 127-10.5 W STATION WC22
 HYDROGRAPHIC CAST DATA

OBSERVED DATA

DEPTH	TEMP	SAL	OXY
0	15.40	31.855	6.577
10		32.498	5.541
30	10.50	31.866	6.018
50		32.636	5.393
75	8.06	32.976	4.381
		33.300	3.575
100		33.806	2.650
150	7.19	33.929	2.814
200		33.985	1.739
350	5.41	34.076	.960
500			.517
750	4.09	34.246	.510
1000			

OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 15- 48

DATE 26/ 9/79

GMT 14.7

POSITION 48-52.5 N, 127-28.1 W

STATION WC20

HYDROGRAPHIC CAST DATA

OBSERVED DATA

DEPTH TEMP SAL OXY

0	31.871	6.132
10	31.908	5.164
20	32.105	
30	32.437	5.101
50	32.604	5.463
75	33.383	4.829
100	33.459	4.132
150	33.809	3.622
200	33.926	2.885
350	33.996	1.828
500	34.102	.903
750	34.272	.682
1000	33.227	3.604

OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 15- 50

DATE 26/ 9/79

GMT 18.5

POSITION 48-41.7 N, 127-45.8 W

STATION WC18

HYDROGRAPHIC CAST DATA

OBSERVED DATA

DEPTH TEMP SAL OXY

0	32.081	5.921
10	32.084	5.990
30	32.235	5.895
50	32.741	3.830
75	33.021	4.630
100	33.328	4.402
150	33.810	3.404
200	33.910	3.310
350	33.975	2.021
500	34.102	.919
750	34.282	
1000	34.406	.613

OFFSHORE OCEANOGRAPHY GROUP
 REFERENCE NO. 79- 15- 51 DATE 26/ 9/79 GMT 23.2
 POSITION 48-48.0 N, 126-52.0 W STATION WC58
 HYDROGRAPHIC CAST DATA

OBSERVED DATA

DEPTH	TEMP	SAL	OXY
0	32.007	6.318	
10	32.010	6.300	
30	32.136	5.193	
50	32.564	4.611	
75	33.097	2.784	
100	33.501	3.475	
150	33.633	3.313	
200	33.917	2.710	
350	34.000	1.724	
500	34.065	1.085	
750	34.226	.607	
1000	34.382	.491	

OFFSHORE OCEANOGRAPHY GROUP
 REFERENCE NO. 79- 15- 52 DATE 27/ 9/79 GMT 2.7
 POSITION 48-43.0 N, 125-15.0 W STATION WC61
 HYDROGRAPHIC CAST DATA

OBSERVED DATA

DEPTH	TEMP	SAL	OXY
0	31.928	6.295	
10	32.156	5.743	
30	32.539	4.185	
50	32.859	3.569	
75	33.513	3.968	
150	33.665	2.498	