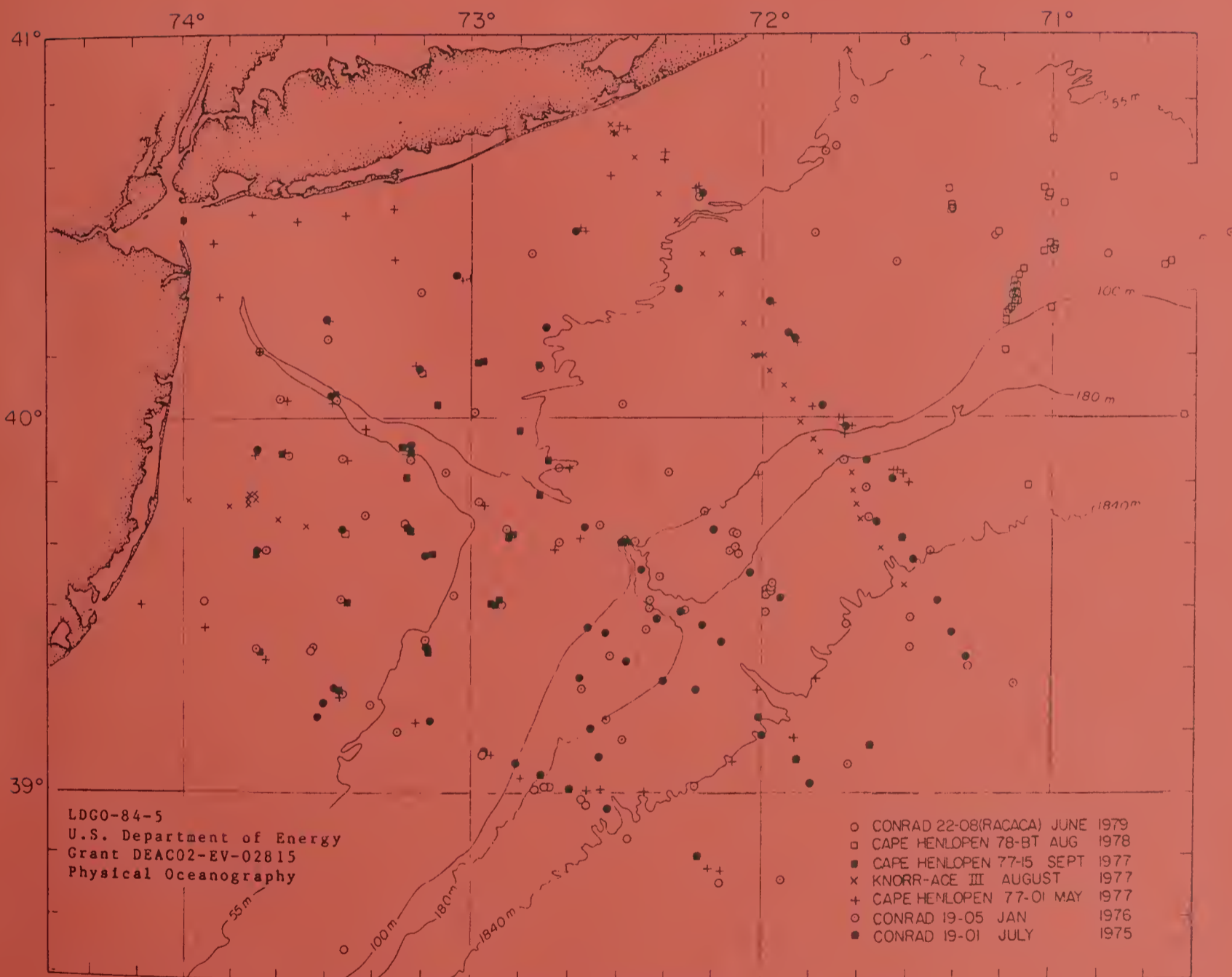


NEW YORK BIGHT and MIDDLE ATLANTIC BIGHT HYDROGRAPHIC CRUISES 1975 - 1979

*5/10/79 only
1/1/80 to 5/1/80
1/1/81 to 5/1/81*



NEW YORK BIGHT AND MIDDLE ATLANTIC BIGHT
HYDROGRAPHIC CRUISES 1975-1979

REPORT OF CRUISES:

CONRAD 19-01 July 1975
CONRAD 19-05 January 1976
CAPE HENLOPEN 77-01 May 1977
KNORR ACE-III August 1977
CAPE HENLOPEN 77-15 September 1977
CAPE HENLOPEN 78-BT August 1978
CONRAD 22-08(RACACA) June 1979

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1984

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Physical Oceanography

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CRUISES	DATES
CONRAD 19-01	7/18/75 - 8/3/75
CONRAD 19-05	1/3/76 - 1/21/76
CAPE HENLOPEN 77-01	4/29/77 - 5/11/77
KNORR ACE-III	8/4/77 - 8/16/77
CAPE HENLOPEN 77-15	9/20/77 - 9/24/77
CAPE HENLOPEN 78-BT	8/13/78 - 8/19/78
CONRAD 22-08	6/12/79 - 6/30/79

I. Introduction

During the years 1974-1979, the Department of Energy's Division of Environmental and Biomedical Research supported an inter-disciplinary study of the waters of the continental shelf and slope in the Middle Atlantic Bight, and particularly in the New York Bight. The overall goal of the Physical Oceanographers, Geochemists and Marine Biologists involved has been to understand and quantify the processes that govern the transport and dispersal of energy-related pollutants introduced to these waters by man's activities. One very important aspect of this project has been the identification and the study of hydrographic and physical mixing processes that govern the distribution of water types and properties in this region. The Physical Oceanographic component of the study has been devoted to this end, and herein are reported the data of this component.

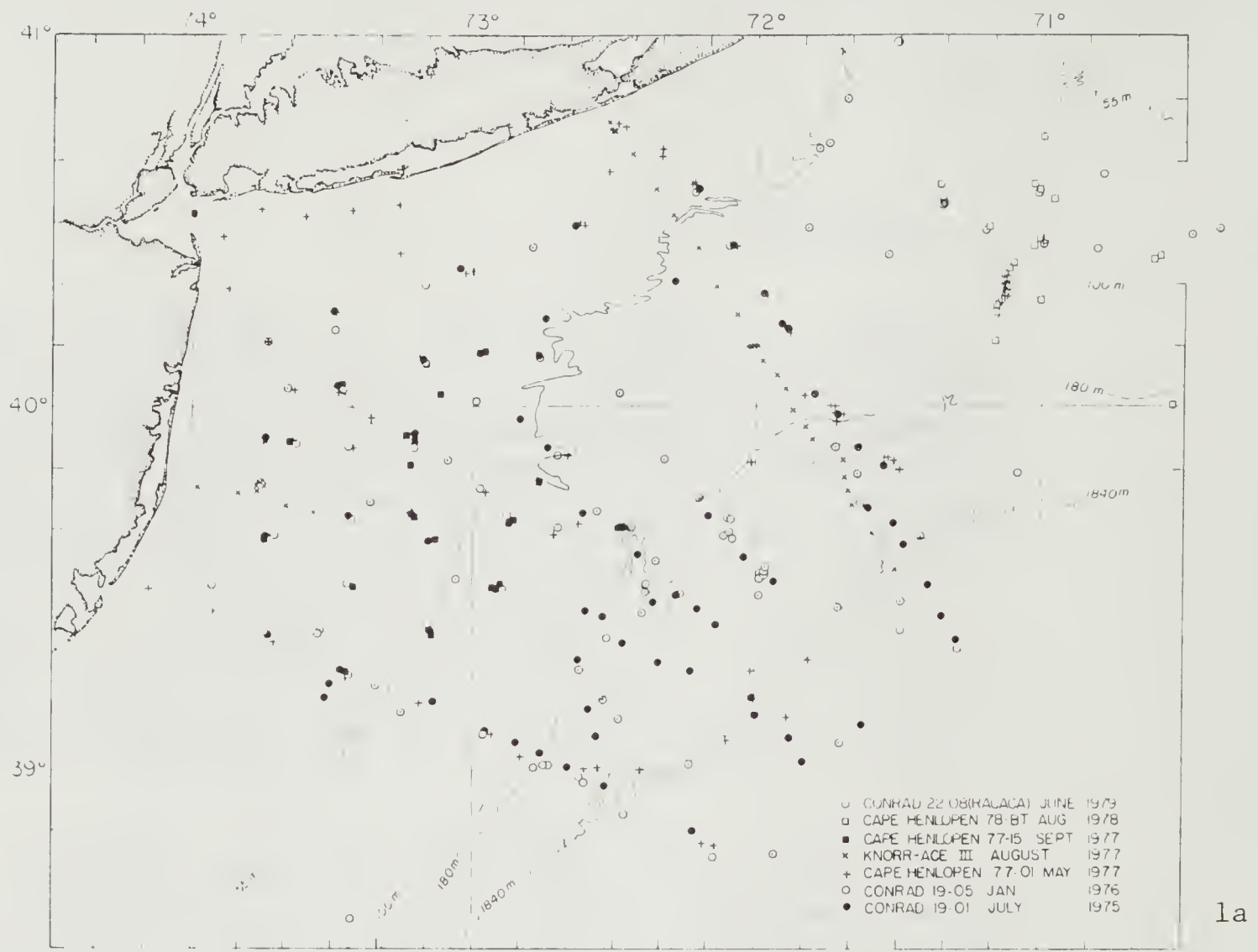
A total of eight separate cruises were conducted in this region during this six year period. The October 1974 Vema 32-01 Cruise is reported elsewhere (Amos, 1976 and Gordon et al. 1976). The remaining seven cruises are reported here, and taken together these data provide a very clear seasonal picture of the hydrography of the region (also see Gordon and Aikman 1981, and Aikman, 1984). The data is derived from continuously recording CTD or STD profiles and from discrete measurements of temperature, salinity, dissolved oxygen concentration, phosphate, nitrate, silicate, nitrite and ammonia. Not all these measurements were made on all cruises, nor with the same instrumentation, but a thread of technique and method is common to all the cruises. This will be discussed next and peculiarities unique to individual cruises will be explained in their respective sections.

A total of 426 hydrographic stations are reported here, as depicted in the station maps of Figures 1a and b. These data have been deposited at the National Oceanographic Data Center, Washington, D. C.

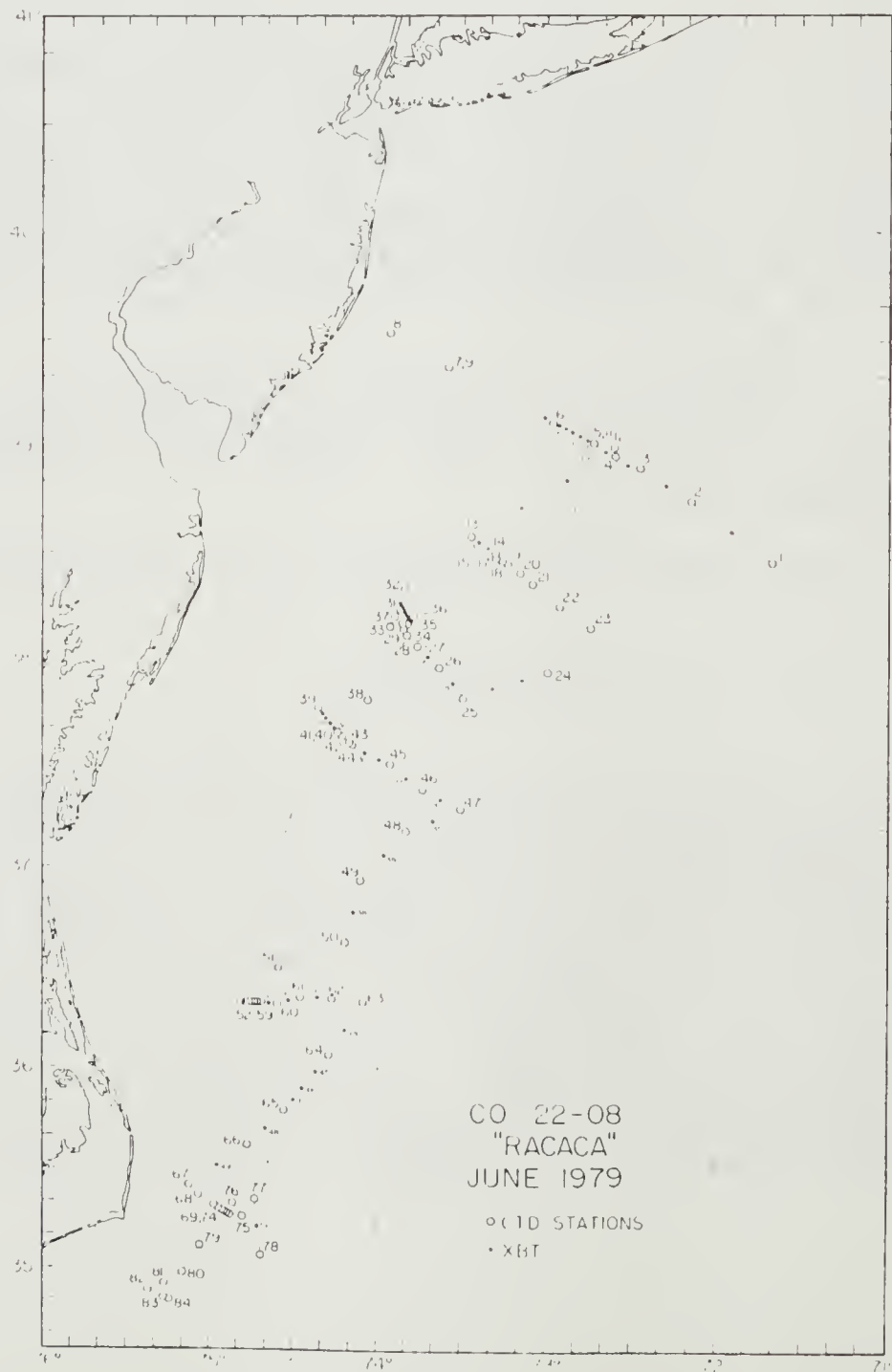
II. Data Collection Methods and Instrumentation

A. Continuous Profiles

The five most recent cruises (1977-1979) used a Neil Brown Instrument Systems (NBIS), Inc. Mark III CTD package as the primary profiling instrument. The manufacturer's specifications of the CTD are given in Table 1. The CTD was fitted with a dissolved oxygen sensor which never performed well on any of these cruises. The oxygen data is considered to be of marginal quality and is not presented in this report. The two earlier cruises (1975-1976) used either a Plessey model 9040 STD and/or an aged Plessey model 9006 STD. All the CTD data was logged on audio tape and in most cases on 9-track digital tape with the aid of a Hewlett-Packard 2108 computer. The STD data was all recorded in



1a



1b

analog form and when possible on a digital tape recorder. In the cases where digital recordings could not be made at sea, this was done back at the lab, either by digitization from audio tape via the HP computer (for CTD data) or by hand digitization of analog records (in the case of STD data).

B. Discrete Sampling

On all cruises a General Oceanics rosette sampler mounted above the CTD (STD) provided up to twelve 1.7 liter water samples for calibration and chemical analysis. Reversing protected and unprotected thermometers mounted on the rosette bottles provided temperature and pressure measurements used in calibration of the CTD. Table 2 summarizes what parameters were measured from water samples on all cruises and Table 3 summarizes sample analysis techniques.

TABLE 1 NBIS CTD SPECIFICATION

Sensor	Range	Accuracy	Resolution	Interval
Pressure	0 to 1600 db	± 3.2 db	0.05 db	32 msec
	0 to 6500 db	± 6.5 db	0.1 db	32 msec
Temperature	-32 to +32°C	± 0.005 °C	0.0005°C	32 msec
Conductivity	1 to 65 mmho	± 0.005 mmho	0.001 mmho	32 msec

TABLE 2 WATER SAMPLE INVENTORY

Cruise	Salinity	Dissolved					
		Oxygen	Phosphate	Nitrate	Silicate	Nitrite	Ammonia
CO 22-08	X	X					
CH 78-BT	X	X	X	X	X	X	X
CH 77-15	X						
KN ACE-3	X	X	X	X	X	X	X
CH 77-01	X	X					
CO 19-05	X	X	X		X		
CO 19-01	X	X	X		X		

TABLE 3 SUMMARY OF WATER SAMPLE ANALYSIS

Parameter	Technique	Precision	Units	Comments
Salinity	Conductivity Ratio (Guildline 8400 Salinometer)	0.002	o/oo	Lewis (1980)
Dissolved Oxygen	Modified Winkler	0.5%	ml/l	Carpenter (1965)
Reactive Phosphate	Molybdate - Asorbic Acid	5%	uM/l	Strickland and Parsons (1968)
Reactive Nitrate	Cadnium Reduction	5%	uM/l	"
Reactive Silicate	Silico molybdate	5%	uM/l	"
Reative Nitrite	Diazo procedure	5%	uM/l	"
Ammonia	Pheno-hypochlorite	10%	uM/l	"

III Data Processing

A. CTD Data

The CTD data processing scheme has been developed at Lamont primarily to be applied to our Southern Ocean data set. It is essentially modeled after the system developed at Woods Hole Oceanographic Institution. With only slight modification, it is applicable to our continental shelf data set.

The CTD/Rosette package was usually lowered at a nominal rate of 60 decibars/min, which when combined with the 31.25 Hz design sample rate yields a nominal sampling of one data scan every 0.032 decibars. Since the instrument package was stopped for water sampling on the uptrace, only data from the downtrace was fully processed. When a bottle sample was taken the associated CTD scan was flagged in the digital record and later compared to the bottle salinity, temperature and pressure determinations.

The raw data was first edited by flagging obviously noisy points. The raw, flagged data was then decimated to form a uniform pressure series at 0.2 decibar intervals by interpolating within a 9 scan window approximately centered about the desired nTH decibar level. In filling the window flagged points were

ignored and, for pressure and temperature, calibration constants applied. Salinity was calculated from the decimated pressure, temperature and conductivity according to Fofonoff et. al. (1974). The data was not corrected for sensor time constant mis-match. The decimated data was then visually inspected and edited by hand with the aid of a CRT graphics terminal. Data gaps and remaining erroneous data points were corrected by interpolation between surrounding good data points.

B. STD Data

The STD data set, once it had been uniformly digitized was very carefully edited for noisy points. At this point, the calibration procedure (described below) was applied rather rigorously, as the STD data required this (at the time this data was collected our STD equipment was some of the oldest surviving equipment of its type in the oceanographic community). The calibrated STD data was then converted to our CTD data format, decimated and finally edited according to the CTD data processing scheme.

C. Calibration

Many coastal oceanographers feel that great accuracy is not essential in regions where both large property gradients and large time-dependent changes can occur. We feel it is essential to maintain as high quality hydrographic data as possible, and to this end the CTD and STD data have been adjusted to the bottle data when necessary or applicable.

A combination of laboratory calibrations and water sample derived calibration data were used to correct pressures and temperatures, where applicable. Conductivity (or salinity in the case of STD data) corrections were derived only from water sample data. Where either significant differences between down and uptraces occurred or where large vertical gradients existed, the water sample - CTD/STD comparisons were not included in the calibration procedure. Calibration equations were derived by performing a least-squares polynomial fit to P, T and S (water sample - CTD/STD) values as a function of pressure and these coefficients were applied uniformly to stations within a group. Stations were grouped to reflect changes in sensor behavior or modifications to the under water unit.

In general the CTD data over the shelf did not warrant significant calibration, or high gradients made it impossible to apply such techniques, however, the STD data did require careful calibration applications. For pressure and temperature a linear fit was usually sufficient, while salinity usually required a quadratic fit.

IV Data Report Format

Section V contains the cruise by cruise data. Each cruise has some particular circumstance that distinguishes it from the others and these are clarified per cruise. A station map is provided for each cruise. The data is presented in the form of plots of temperature, salinity and density versus pressure (or depth) and listings of CTD/STD and bottle data.

A. Plots

Each station's data is presented in one plot format: In situ temperature (8 to 22°C), salinity (30 to 37 o/oo) and density (21 to 28 sigma-t units) versus pressure (0 to 180 db). In the case of the STD data of CO 19-01 and CO 19-05 the ordinate is depth (0 to 180m). The majority of stations are less than 180m deep, the depth of the shelf break and the deepest extent of seasonal influence by the atmosphere or continental shelf water over the slope. Below this depth thermohaline characteristics are well represented by the listings. In the cases where a station is less than 80m we have put two stations per page. All data is plotted at 1 point every decibar. Each curve is labelled with a 2-letter code (TE = temperature, SA = Salinity, ST = Sigma-t).

B. Listings

These consist of standard level listings of the CTD/STD data (at 5m intervals from 0 to 200m; at 25m intervals from 200 to 500m; and at 100m intervals below 500m), followed by the bottle data. Stations that consist of only bottle data are grouped separately and follow the CTD/STD listings.

Header information for each station consists of:

SHIP -	2 letter ship identifier
CRUISE -	cruise number
STATION -	CTD/STD station number
POSITION -	position at start of station in degrees, minutes and hundredths of minutes (LAT, LONG)
LOCAL TIME-	hours
DATE -	YR/MO/DA
WIND -	speed (kts)
DIR -	direction
DEPTH-	sonic depth (m) corrected via Matthew's (1939) tables

The CTD/STD - derived data is listed first and identified by the following codes:

DTH-	depth (meters) computed from pressure according to Saunders and Fofonoff (1976)
TEM-	in situ temperature ($^{\circ}\text{C}$)
SAL-	salinity (o/oo)
SGT-	sigma-t
ANO-	specific volume anomaly $\times 10^5$ (cm^3/g)
DYN-	dynamic height anomaly (dyn-m)
SVL-	sound velocity (m/s) computed from Wilson (1960)
PRS-	pressure in decibars

The bottle data is listed immediately below the CTD/STD data and identified by:

DTH-	depth (meters), either computed from thermometric or CTD/STD pressure
TEM-	in situ temperature ($^{\circ}\text{C}$), from reversing thermometers
SAL-	salinity (o/oo), from Autosal measurements
OXG-	dissolved oxygen concentration (ml/l)
PHOS-	phosphate ($\mu\text{M}/\text{l}$)
NITR-	nitrate ($\mu\text{M}/\text{l}$)
SIL-	silicate ($\mu\text{M}/\text{l}$)
NO2-	nitrite ($\mu\text{M}/\text{l}$)
AMM-	ammonia ($\mu\text{M}/\text{l}$)

ACKNOWLEDGMENTS

Support for this work has been provided by the Department of Energy, Division of Environmental and Biomedical Research, contract DE-AC02-EV02185 (Physical Oceanography - A. L. Gordon, principal investigator). We thank the captains, officers and crews of the research vessels CONRAD, CAPE HENLOPEN and KNORR. Pierre Biscaye was chief scientist on five of these multi-disciplinary cruises and overall principal investigator of the project at Lamont.

The number of people involved over the years in either the collection or processing of this data is understandably large, but special thanks is extended to Sarah Rennie, David Woodroffe, Tony Amos, Jan Szelag, Bruce Huber, Robert Houghton, Bruce Deck, Ted Baker, Steve Carson, Kate Cooke Epstein and Scott Daubin.

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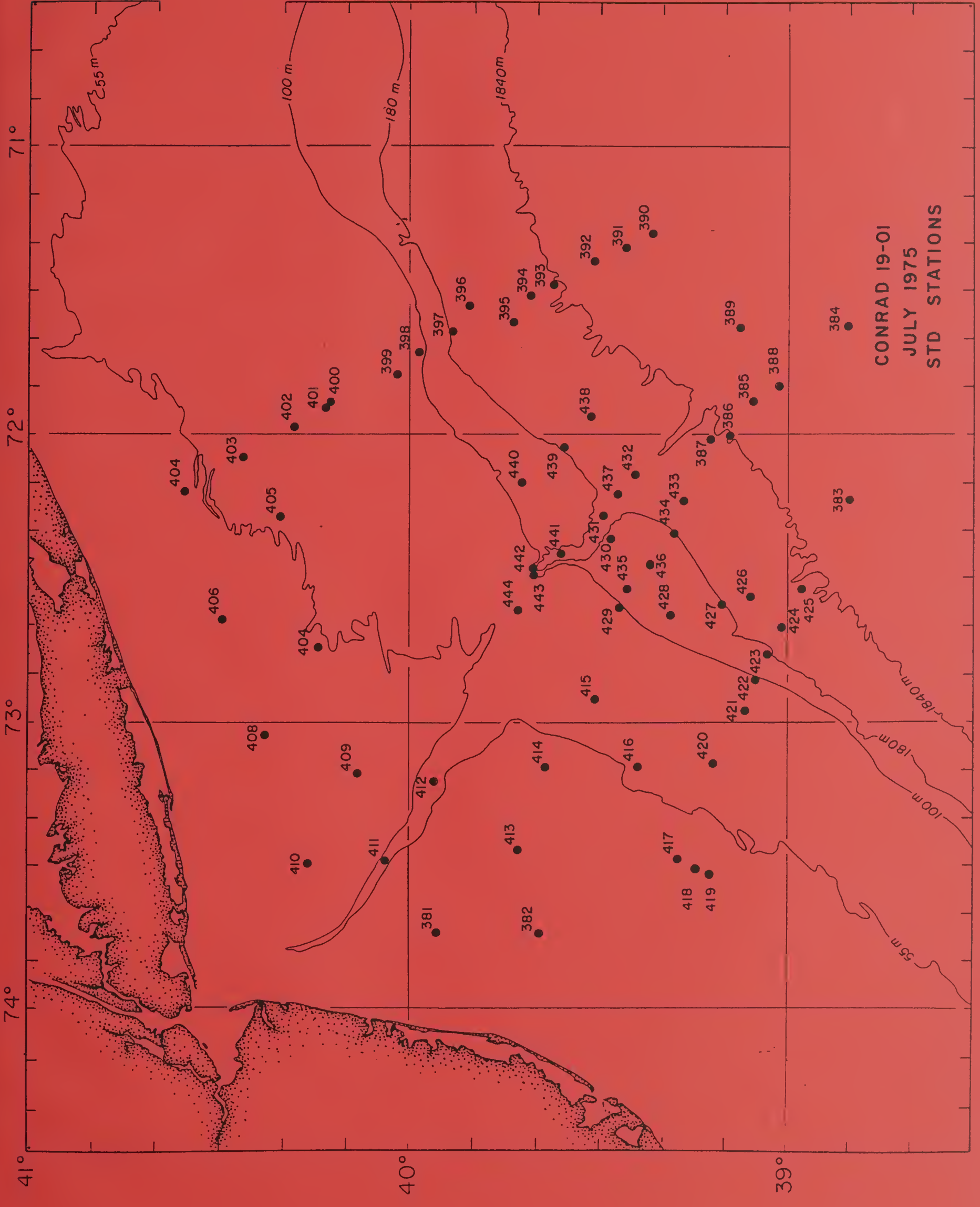
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CONRAD 19-01
JULY 1975
STD STATIONS

CONRAD 19-01

Cruise dates: 18 July 1975 - 3 August 1975

Station numbers (total of 64): 381-444

STD and bottle data (43): 387-389, 391-400, 402-420, 422, 424-431,
433-434

Bottle data only (19): 381-386, 390, 421, 423, 432, 436-444

No STD or bottle data (2): 401, 435

SHIP CO CRUISE 19-01 STATION 387 POSITION 39 12.17 N 72 .83 W
 LOCAL TIME 1432 DATE 75/ 7/23 WIND = DIR = DEPTH=1640M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	DTH	
0	24.647	34.557	23.115	474.5	0.000	1533.5	0.0	
5	24.647	34.557	23.115	474.7	.024	1533.6	5.0	
10	24.647	34.557	23.115	474.9	.047	1533.7	10.0	
15	24.533	34.790	23.325	455.0	.071	1533.7	15.0	
20	23.604	35.063	23.807	409.2	.092	1531.9	20.0	
25	22.261	35.287	24.364	356.3	.111	1528.8	25.0	
30	21.276	35.511	24.809	314.1	.128	1526.6	30.0	
35	20.489	35.751	25.206	276.5	.143	1524.9	35.0	
40	20.016	35.897	25.443	254.0	.156	1523.9	40.0	
45	19.432	35.948	25.635	235.9	.168	1522.4	45.0	
50	18.939	35.959	25.771	223.2	.180	1521.1	50.0	
55	17.236	36.024	26.245	178.2	.190	1516.4	55.0	
60	16.127	36.099	26.565	148.0	.198	1513.2	60.0	
65	15.471	36.080	26.700	135.2	.205	1511.3	65.0	
70	15.087	36.046	26.760	129.6	.212	1510.1	70.0	
75	14.994	36.117	26.836	122.6	.218	1510.0	75.0	
80	15.111	36.157	26.841	122.3	.224	1510.5	80.0	
85	15.122	36.176	26.853	121.3	.230	1510.6	85.0	
90	15.102	36.166	26.850	121.8	.236	1510.6	90.0	
95	15.110	36.182	26.860	120.9	.243	1510.7	95.0	
100	15.091	36.190	26.870	120.1	.249	1510.8	100.0	
105	15.084	36.169	26.856	121.7	.255	1510.8	105.0	
110	15.071	36.162	26.853	122.0	.261	1510.8	110.0	
115	15.072	36.164	26.855	122.1	.267	1510.9	115.0	
120	15.071	36.162	26.853	122.4	.273	1511.0	120.0	
125	15.063	36.157	26.851	122.7	.279	1511.1	125.0	
130	15.062	36.156	26.851	122.9	.285	1511.1	130.0	
135	15.076	36.161	26.851	123.0	.291	1511.3	135.0	
140	15.072	36.158	26.850	123.3	.297	1511.3	140.0	
145	15.074	36.159	26.850	123.4	.304	1511.4	145.0	
150	15.074	36.156	26.848	123.8	.310	1511.5	150.0	
155	15.083	36.161	26.850	123.7	.316	1511.6	155.0	
160	15.083	36.159	26.848	124.0	.322	1511.7	160.0	
165	15.076	36.156	26.848	124.3	.328	1511.7	165.0	
170	15.075	36.154	26.846	124.5	.335	1511.8	170.0	
175	15.065	36.153	26.848	124.5	.341	1511.9	175.0	
180	15.063	36.151	26.847	124.8	.347	1511.9	180.0	
185	15.060	36.148	26.845	125.1	.353	1512.0	185.0	
190	15.054	36.147	26.845	125.2	.360	1512.1	190.0	
195	15.053	36.146	26.845	125.4	.366	1512.1	195.0	
200	15.052	36.145	26.844	125.6	.372	1512.2	200.0	
225	14.984	36.135	26.852	125.6	.404	1512.4	225.0	
250	14.850	36.073	26.834	128.0	.435	1512.3	250.0	
275	14.609	36.017	26.843	127.8	.467	1511.9	275.0	
300	13.498	35.764	26.884	124.1	.499	1508.4	300.0	
325	12.019	35.512	26.984	114.5	.529	1503.5	325.0	
350	11.499	35.451	27.035	110.0	.557	1502.0	350.0	
375	10.772	35.362	27.099	104.0	.583	1499.7	375.0	
400	9.986	35.272	27.167	97.6	.609	1497.2	400.0	
425	8.959	35.158	27.249	89.6	.632	1493.7	425.0	
450	8.605	35.117	27.273	87.5	.654	1492.7	450.0	
475	7.965	35.104	27.361	79.1	.675	1490.7	475.0	
500	7.304	35.076	27.436	71.8	.694	1488.5	500.0	
600	5.446	35.032	27.648	51.1	.755	1482.7	600.0	
700	5.027	35.007	27.678	48.9	.805	1482.6	700.0	
800	4.729	35.003	27.709	46.6	.853	1483.0	800.0	
900	4.407	34.987	27.732	44.8	.899	1483.3	900.0	
1000	4.269	34.990	27.750	43.9	.943	1484.4	1000.0	
1100	4.125	34.991	27.766	43.0	.987	1485.4	1100.0	
1200	4.037	34.977	27.764	43.9	1.030	1486.7	1200.0	
1300	3.959	34.983	27.777	43.4	1.074	1488.0	1300.0	
1400	3.884	34.990	27.790	42.8	1.117	1489.4	1400.0	
1500	3.808	34.994	27.801	42.4	1.159	1490.7	1500.0	
1584	3.726	35.004	27.818	41.3	1.194	1491.8	1584.0	
DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
4	24.610	34.529	5.20	0.47		2.92		
89	15.100	36.142	5.31	0.47		2.87		
187	15.060	36.137	5.38	0.49		2.98		
250	14.840	36.116	5.39	1.20		8.83		
355	11.480	35.485	3.99	1.21		9.03		
442	8.860	35.165	3.33	1.67		15.14		
544	6.720	35.074	4.33	1.55		14.31		
720	5.050	35.013	5.53	1.36		12.27		
909	4.460	34.997	6.00	1.27		11.33		
1196	4.050	34.989	7.93	1.27		11.65		
1465	3.860	34.983	6.27	1.24		12.48		
1614	3.710	34.983	6.29	1.26		12.53		

SIGMA-T

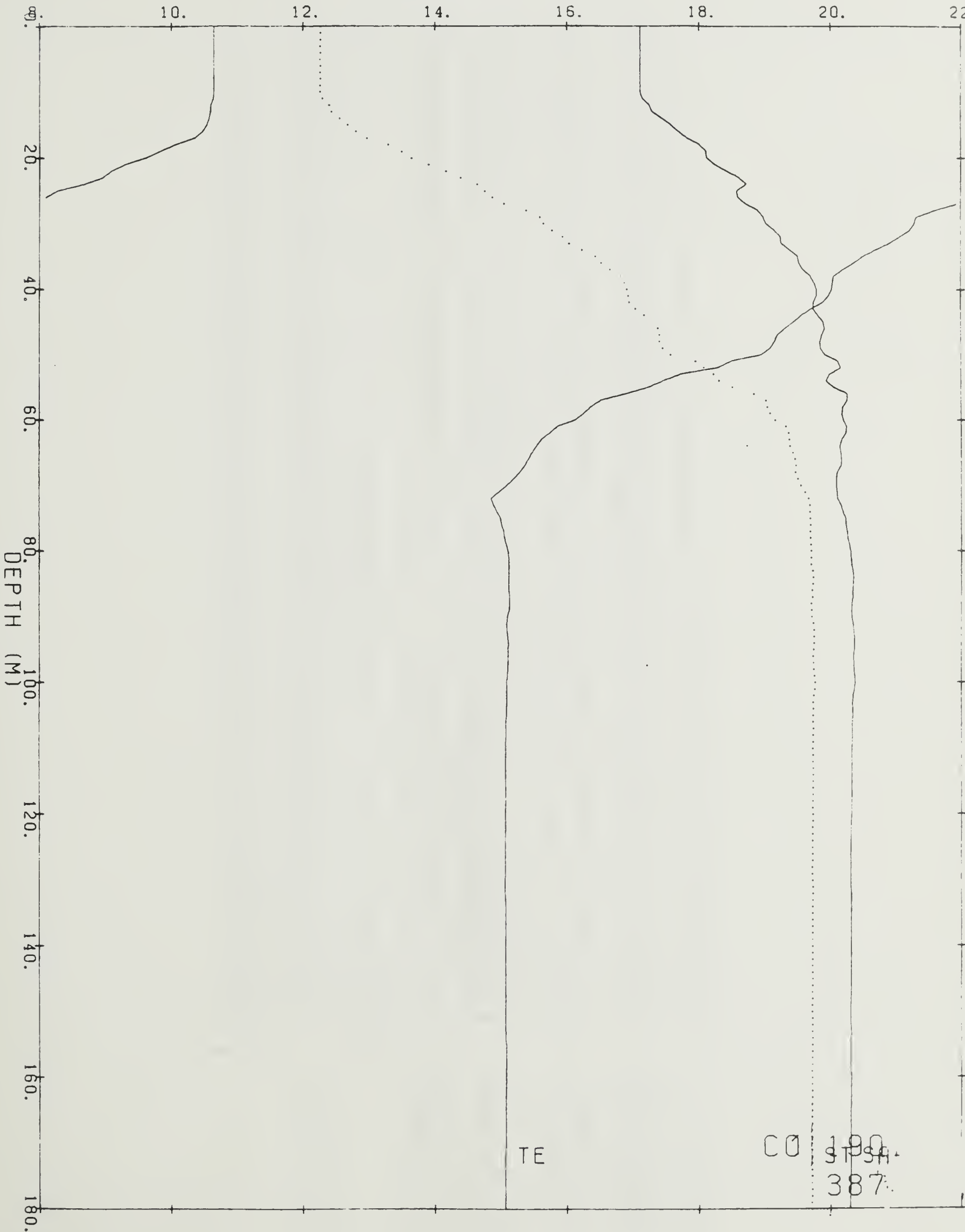
21. 22. 23. 24. 25. 26. 27. 28.

SALINITY (PPT)

30. 31. 32. 33. 34. 35. 36. 37.

TEMPERATURE (DEG C)

8. 10. 12. 14. 16. 18. 20. 22.



SHIP CO CRUISE 19-01 STATION 388 POSITION 39 .95 N 71 49.02 W
 LOCAL TIME 1940 DATE 75/ 7/23 WIND = 6knots DIR = 270 DEPTH=1970M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	DTH
0	25.530	31.936	20.869	689.5	0.000	1532.7	0.0
5	25.530	31.936	20.869	689.7	.034	1532.8	5.0
10	24.987	32.278	21.291	649.4	.068	1531.9	10.0
15	24.118	34.051	22.890	496.6	.097	1531.9	15.0
20	21.751	34.908	24.219	369.9	.118	1527.0	20.0
25	20.351	35.078	24.729	321.4	.136	1523.6	25.0
30	20.641	35.288	24.812	313.8	.151	1524.7	30.0
35	20.701	35.682	25.096	286.9	.166	1525.4	35.0
40	20.141	35.799	25.335	264.3	.180	1524.1	40.0
45	19.845	35.810	25.422	256.2	.193	1523.4	45.0
50	19.059	35.740	25.573	242.0	.206	1521.2	50.0
55	17.713	35.593	25.798	220.7	.217	1517.3	55.0
60	16.513	35.504	26.017	199.9	.228	1513.7	60.0
65	14.621	35.317	26.300	173.1	.237	1507.6	65.0
70	14.067	35.385	26.471	156.9	.245	1506.0	70.0
75	13.695	35.409	26.568	147.8	.253	1504.9	75.0
80	13.567	35.441	26.619	143.1	.260	1504.6	80.0
85	13.535	35.468	26.647	140.6	.267	1504.6	85.0
90	13.515	35.477	26.658	139.7	.274	1504.6	90.0
95	13.565	35.538	26.695	136.4	.281	1505.0	95.0
100	13.569	35.577	26.724	133.7	.288	1505.1	100.0
105	13.532	35.572	26.728	133.5	.295	1505.1	105.0
110	13.346	35.609	26.795	127.2	.301	1504.6	110.0
115	13.543	35.698	26.823	124.7	.308	1505.4	115.0
120	13.683	35.760	26.842	123.1	.314	1506.0	120.0
125	13.856	35.803	26.839	123.6	.320	1506.7	125.0
130	14.068	35.885	26.858	122.0	.326	1507.6	130.0
135	14.274	36.013	26.912	117.0	.332	1508.5	135.0
140	14.403	35.994	26.870	121.2	.338	1509.0	140.0
145	14.407	35.996	26.871	121.3	.344	1509.1	145.0
150	14.405	35.991	26.867	121.8	.350	1509.2	150.0
155	14.239	35.937	26.861	122.4	.356	1508.6	155.0
160	14.089	35.914	26.875	121.2	.362	1508.2	160.0
165	13.922	35.865	26.873	121.5	.368	1507.7	165.0
170	13.659	35.804	26.881	120.8	.374	1506.8	170.0
175	13.548	35.802	26.903	118.9	.380	1506.5	175.0
180	13.436	35.773	26.903	118.9	.386	1506.2	180.0
185	13.208	35.677	26.876	121.6	.392	1505.4	185.0
190	12.960	35.660	26.913	118.1	.398	1504.7	190.0
195	12.897	35.655	26.922	117.4	.404	1504.5	195.0
200	12.742	35.628	26.932	116.5	.410	1504.0	200.0
225	12.297	35.549	26.959	114.5	.439	1502.8	225.0
250	11.966	35.537	27.013	109.8	.467	1502.1	250.0
275	11.750	35.529	27.048	107.0	.494	1501.8	275.0
300	10.341	35.365	27.178	94.6	.519	1497.0	300.0
325	8.948	35.243	27.317	81.2	.541	1492.1	325.0
350	8.085	35.175	27.399	73.4	.561	1489.2	350.0
375	6.780	35.114	27.539	59.6	.577	1484.5	375.0
400	6.424	35.130	27.600	53.9	.591	1483.5	400.0
425	5.996	35.110	27.640	50.1	.604	1482.1	425.0
450	5.505	35.115	27.706	43.8	.616	1480.6	450.0
475	5.254	35.104	27.728	41.8	.627	1480.0	475.0
500	5.077	35.104	27.749	39.9	.637	1479.6	500.0
600	4.763	35.106	27.787	37.1	.676	1480.0	600.0
700	4.513	35.108	27.817	35.1	.712	1480.6	700.0
800	4.355	35.112	27.837	33.9	.746	1481.6	800.0
900	4.255	35.113	27.849	33.6	.780	1482.8	900.0
1000	4.157	35.115	27.861	33.3	.813	1484.1	1000.0
1100	4.063	35.114	27.870	33.2	.847	1485.3	1100.0
1200	4.013	35.116	27.877	33.3	.880	1486.8	1200.0
1300	3.930	35.109	27.880	33.7	.913	1488.1	1300.0
1400	3.874	35.099	27.878	34.7	.948	1489.5	1400.0
1500	3.781	35.091	27.881	34.9	.982	1490.7	1500.0
1600	3.762	35.065	27.863	37.4	1.019	1492.3	1600.0
1700	3.686	35.042	27.852	39.0	1.057	1493.6	1700.0
1796	3.572	35.012	27.840	40.4	1.095	1494.7	1796.0

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
4	25.190	31.947	5.06	0.04		1.28		
43	18.590	35.770	6.02	0.02		2.29		
92	13.280	35.502	4.92	0.58		4.58		
171	13.460	35.737	5.03	0.65		5.29		
269	11.910	35.500	4.69	0.97		7.78		
358	12.260	35.121	3.78	1.58		15.24		
654	4.630	35.005	5.87					
984	4.180	34.959	5.12	0.74		6.98		
1184	3.980	34.986	6.22	1.21		12.95		
1430	3.910	34.982	6.29	1.20		13.26		
1775	3.650	34.981	6.28	1.20		14.81		
1867	3.570	34.972	6.30	1.21		15.08		

SIGMA-T

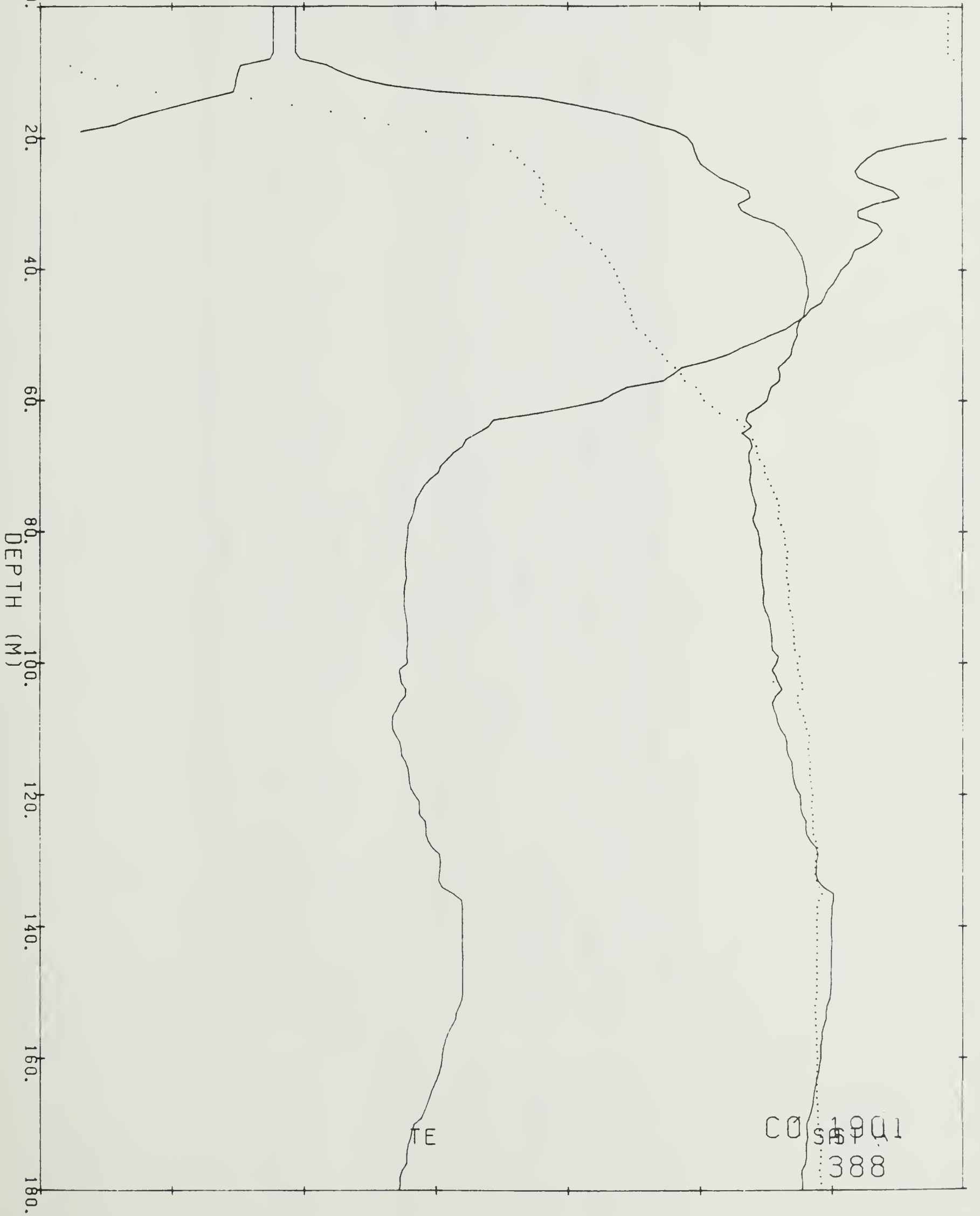
21. 22. 23. 24. 25. 26. 27. 28.

SALINITY (PPT)

30. 31. 32. 33. 34. 35. 36. 37.

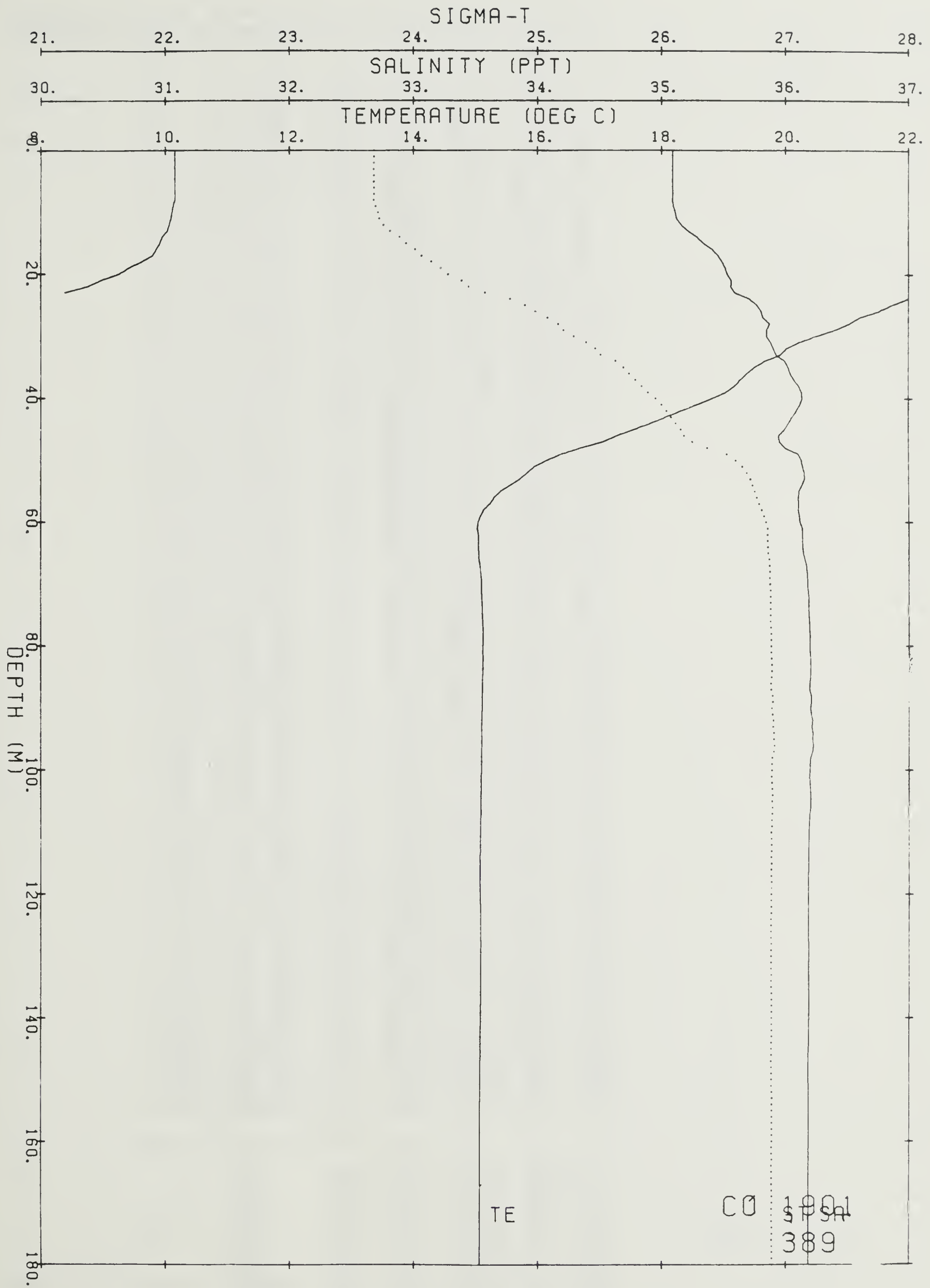
TEMPERATURE (DEG C)

8. 10. 12. 14. 16. 18. 20. 22.



SHIP CO CRUISE 19-01 STATION 389 POSITIONN 39 7.13 N 71 37.73 W
 LOCAL TIME 1543 DATE 75/ 7/24 WIND = 10knots DIR = 200 DEPTH=2534M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	DTH	
0	24.156	35.091	23.666	422.0	0.000	1532.9	0.0	
5	24.156	35.091	23.666	422.1	.021	1533.0	5.0	
10	24.102	35.112	23.697	419.3	.042	1533.0	10.0	
15	23.906	35.338	23.927	397.6	.063	1532.8	15.0	
20	23.253	35.533	24.266	365.4	.082	1531.5	20.0	
25	21.717	35.770	24.884	306.8	.098	1528.0	25.0	
30	20.489	35.849	25.280	269.2	.113	1524.9	30.0	
35	19.493	36.027	25.680	231.3	.125	1522.5	35.0	
40	18.813	36.140	25.942	206.6	.136	1520.8	40.0	
45	17.555	35.992	26.143	187.6	.146	1517.1	45.0	
50	16.146	36.132	26.586	145.7	.154	1513.2	50.0	
55	15.397	36.110	26.740	131.1	.161	1510.9	55.0	
60	15.034	36.121	26.830	122.7	.168	1509.9	60.0	
65	15.048	36.148	26.848	121.2	.174	1510.0	65.0	
70	15.094	36.181	26.863	119.9	.180	1510.3	70.0	
75	15.109	36.193	26.869	119.5	.186	1510.4	75.0	
80	15.114	36.201	26.874	119.2	.192	1510.5	80.0	
85	15.110	36.204	26.877	119.0	.198	1510.6	85.0	
90	15.103	36.205	26.879	119.0	.204	1510.7	90.0	
95	15.098	36.221	26.893	117.8	.210	1510.7	95.0	
100	15.094	36.197	26.875	119.7	.216	1510.8	100.0	
105	15.084	36.205	26.883	119.0	.222	1510.8	105.0	
110	15.077	36.191	26.874	120.1	.228	1510.9	110.0	
115	15.074	36.188	26.873	120.4	.234	1511.0	115.0	
120	15.072	36.188	26.873	120.5	.240	1511.0	120.0	
125	15.080	36.188	26.871	120.8	.246	1511.1	125.0	
130	15.082	36.188	26.871	121.0	.252	1511.2	130.0	
135	15.081	36.188	26.871	121.1	.258	1511.3	135.0	
140	15.073	36.187	26.872	121.2	.264	1511.4	140.0	
145	15.070	36.186	26.872	121.3	.270	1511.4	145.0	
150	15.064	36.186	26.873	121.4	.276	1511.5	150.0	
155	15.061	36.187	26.875	121.4	.282	1511.6	155.0	
160	15.058	36.187	26.876	121.5	.288	1511.6	160.0	
165	15.059	36.184	26.873	121.9	.294	1511.7	165.0	
170	15.058	36.186	26.875	121.8	.300	1511.8	170.0	
175	15.058	36.184	26.873	122.1	.306	1511.9	175.0	
180	15.053	36.184	26.874	122.2	.312	1511.9	180.0	
185	15.047	36.186	26.877	122.0	.319	1512.0	185.0	
190	15.044	36.186	26.878	122.1	.325	1512.1	190.0	
195	15.035	36.174	26.870	123.0	.331	1512.1	195.0	
200	15.019	36.174	26.874	122.8	.337	1512.2	200.0	
225	14.967	36.159	26.874	123.5	.368	1512.4	225.0	
250	14.881	36.128	26.869	124.7	.399	1512.5	250.0	
275	14.706	36.094	26.881	124.2	.430	1512.3	275.0	
300	13.645	35.857	26.925	120.3	.460	1509.0	300.0	
325	12.458	35.650	27.005	112.7	.490	1505.1	325.0	
350	11.256	35.484	27.106	103.1	.517	1501.2	350.0	
375	9.668	35.281	27.228	91.1	.541	1495.6	375.0	
400	8.641	35.192	27.326	81.6	.562	1492.1	400.0	
425	8.026	35.172	27.405	74.1	.582	1490.2	425.0	
450	7.305	35.154	27.497	65.2	.599	1487.8	450.0	
475	6.658	35.106	27.550	60.0	.615	1485.6	475.0	
500	5.906	35.099	27.643	50.8	.629	1483.0	500.0	
600	5.018	35.114	27.764	39.7	.674	1481.1	600.0	
700	4.734	35.119	27.801	36.9	.712	1481.5	700.0	
800	4.484	35.121	27.830	34.8	.748	1482.1	800.0	
900	4.309	35.121	27.850	33.7	.782	1483.1	900.0	
1000	4.200	35.125	27.864	33.1	.816	1484.3	1000.0	
1100	4.108	35.128	27.877	32.7	.849	1485.5	1100.0	
1200	4.011	35.132	27.890	32.1	.881	1486.8	1200.0	
1300	3.946	35.136	27.900	32.0	.913	1488.2	1300.0	
1400	3.858	35.142	27.914	31.3	.945	1489.5	1400.0	
1500	3.784	35.142	27.922	31.2	.976	1490.8	1500.0	
1600	3.726	35.140	27.926	31.5	1.007	1492.2	1600.0	
1700	3.646	35.125	27.922	32.4	1.039	1493.5	1700.0	
1800	3.560	35.116	27.924	32.7	1.072	1494.8	1800.0	
1900	3.432	35.103	27.926	32.7	1.105	1495.9	1900.0	
2000	3.308	35.089	27.927	32.8	1.137	1497.1	2000.0	
2100	3.198	35.070	27.922	33.5	1.170	1498.2	2100.0	
2200	3.107	35.051	27.916	34.3	1.204	1499.5	2200.0	
2300	2.973	35.023	27.906	35.1	1.239	1500.6	2300.0	
2400	2.836	34.987	27.890	36.5	1.275	1501.6	2400.0	
2404	2.833	34.985	27.889	36.6	1.276	1501.7	2404.0	
DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
2	24.580	34.746	5.09	0.04		1.63		
119	15.080	36.142	5.35	0.43		3.49		
227	14.780	36.072	5.35	0.48		3.81		
328	11.030	35.408	3.65	1.37		11.93		
517	6.210	35.042	4.63	1.53		14.70		
676	4.800	35.007	5.61	1.34		12.12		
974	4.240	34.978	6.19	1.22		12.25		
1269	4.000	34.975	5.23	0.34				
1598	3.730	34.973	6.34	1.25		14.44		
2055	3.340	34.962	6.40	1.27		16.73		
2348	2.960	34.946	6.40	1.22		18.30		
2414	2.830	34.940	6.41	1.20		2.31		



SHIP CD CRUISE 19-01 STATION 391 POSITION 39 25.61 N 71 20.76 W
 LOCAL TIME 508 DATE 75/ 7/25 WIND = 14knots DIR = 180 DEPTH=2432M

DTH	TEM	SAL	SGT	ANO	OYN	SVL	OTH
0	23.373	33.101	22.389	544.0	0.000	1528.7	0.0
5	23.373	33.101	22.389	544.1	.027	1528.8	5.0
10	23.364	33.102	22.392	544.0	.054	1528.9	10.0
15	23.271	33.089	22.409	542.6	.082	1528.7	15.0
20	19.359	33.969	24.143	377.1	.105	1519.5	20.0
25	17.528	34.408	24.935	301.8	.122	1514.8	25.0
30	17.133	34.451	25.062	289.8	.136	1513.8	30.0
35	15.719	34.374	25.330	264.4	.150	1509.5	35.0
40	13.676	34.221	25.653	233.7	.163	1502.8	40.0
45	11.932	34.103	25.906	209.7	.174	1496.8	45.0
50	10.905	34.012	26.024	198.5	.184	1493.2	50.0
55	10.313	34.118	26.210	180.9	.193	1491.3	55.0
60	10.205	34.183	26.279	174.4	.202	1491.1	60.0
65	10.764	34.458	26.396	163.5	.211	1493.5	65.0
70	10.536	34.359	26.359	167.1	.219	1492.6	70.0
75	10.806	34.566	26.473	156.5	.227	1494.0	75.0
80	11.349	34.846	26.592	145.3	.235	1496.3	80.0
85	11.768	34.983	26.620	142.8	.242	1498.0	85.0
90	12.125	35.098	26.642	141.0	.249	1499.5	90.0
95	12.368	35.227	26.695	136.2	.256	1500.6	95.0
100	12.309	35.330	26.786	127.6	.262	1500.6	100.0
105	12.675	35.478	26.829	123.8	.269	1502.1	105.0
110	12.653	35.440	26.804	126.3	.275	1502.0	110.0
115	12.528	35.487	26.865	120.6	.281	1501.8	115.0
120	12.433	35.503	26.896	117.7	.287	1501.5	120.0
125	12.606	35.578	26.920	115.6	.293	1502.3	125.0
130	12.525	35.576	26.935	114.4	.299	1502.1	130.0
135	12.163	35.517	26.960	112.0	.304	1500.9	135.0
140	11.830	35.526	27.031	105.4	.310	1499.8	140.0
145	11.628	35.497	27.047	104.0	.315	1499.2	145.0
150	11.341	35.483	27.089	99.9	.320	1498.2	150.0
155	11.104	35.438	27.098	99.2	.325	1497.4	155.0
160	10.733	35.413	27.146	94.6	.330	1496.2	160.0
165	10.372	35.375	27.181	91.4	.335	1494.9	165.0
170	10.092	35.364	27.221	87.6	.339	1494.0	170.0
175	9.847	35.336	27.241	85.7	.343	1493.1	175.0
180	9.633	35.321	27.266	83.4	.348	1492.4	180.0
185	9.066	35.238	27.294	80.6	.352	1490.3	185.0
190	8.714	35.209	27.328	77.4	.356	1489.0	190.0
195	8.431	35.177	27.347	75.6	.360	1488.0	195.0
200	8.269	35.167	27.364	74.0	.363	1487.4	200.0
225	7.826	35.152	27.420	69.0	.381	1486.1	225.0
250	7.430	35.143	27.471	64.5	.398	1485.0	250.0
275	7.007	35.145	27.532	58.8	.413	1483.8	275.0
300	6.650	35.128	27.568	55.6	.428	1482.7	300.0
325	6.288	35.122	27.612	51.6	.441	1481.7	325.0
350	5.974	35.122	27.653	47.9	.453	1480.8	350.0
375	5.804	35.105	27.661	47.3	.465	1480.6	375.0
400	5.626	35.119	27.694	44.4	.477	1480.3	400.0
425	5.451	35.116	27.713	42.7	.488	1480.0	425.0
450	5.243	35.112	27.736	40.8	.498	1479.5	450.0
475	5.017	35.099	27.752	39.3	.508	1479.0	475.0
500	4.917	35.095	27.760	38.7	.518	1479.0	500.0
600	4.694	35.115	27.802	35.6	.555	1479.7	600.0
700	4.465	35.119	27.831	33.7	.590	1480.4	700.0
800	4.313	35.129	27.855	32.2	.623	1481.4	800.0
900	4.211	35.138	27.874	31.3	.654	1482.7	900.0
1000	4.098	35.141	27.888	30.6	.685	1483.9	1000.0
1100	4.023	35.148	27.902	30.2	.716	1485.2	1100.0
1200	3.935	35.150	27.912	29.9	.746	1486.5	1200.0
1300	3.862	35.152	27.922	29.7	.775	1487.8	1300.0
1400	3.807	35.150	27.926	30.1	.805	1489.3	1400.0
1500	3.718	35.146	27.932	30.1	.835	1490.5	1500.0
1600	3.658	35.136	27.930	30.9	.866	1491.9	1600.0
1700	3.600	35.127	27.929	31.6	.897	1493.3	1700.0
1800	3.532	35.116	27.927	32.3	.929	1494.7	1800.0
1900	3.454	35.100	27.922	33.2	.962	1496.0	1900.0
2000	3.325	35.080	27.918	33.7	.995	1497.1	2000.0
2100	3.162	35.056	27.915	34.0	1.029	1498.1	2100.0
2200	2.903	35.025	27.914	33.4	1.063	1498.6	2200.0
2300	2.697	34.989	27.904	33.8	1.096	1499.3	2300.0
2317	2.694	34.974	27.892	35.0	1.102	1499.6	2317.0

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
2	23.000	33.102	5.39	0.05		1.12		
39	13.380	34.045	6.11	0.18		2.67		
63	9.890	34.122	5.83	0.64		6.84		
88	11.730	34.894	5.30	0.58		5.93		
108	12.850	35.592	5.10	0.69		5.55		
369	5.880	35.032	4.88	1.47		14.00		
727	4.410	35.013	6.01	1.23		12.02		
1100	4.050	34.994	6.16	1.21		11.86		
1455	3.760	34.983	6.26	1.24		13.57		
1803	3.570	34.970	6.31	1.25		14.42		
2189	3.150	34.962	6.34	1.23		17.68		
2306	2.700	34.940	6.53	1.20		19.12		

SIGMA-T

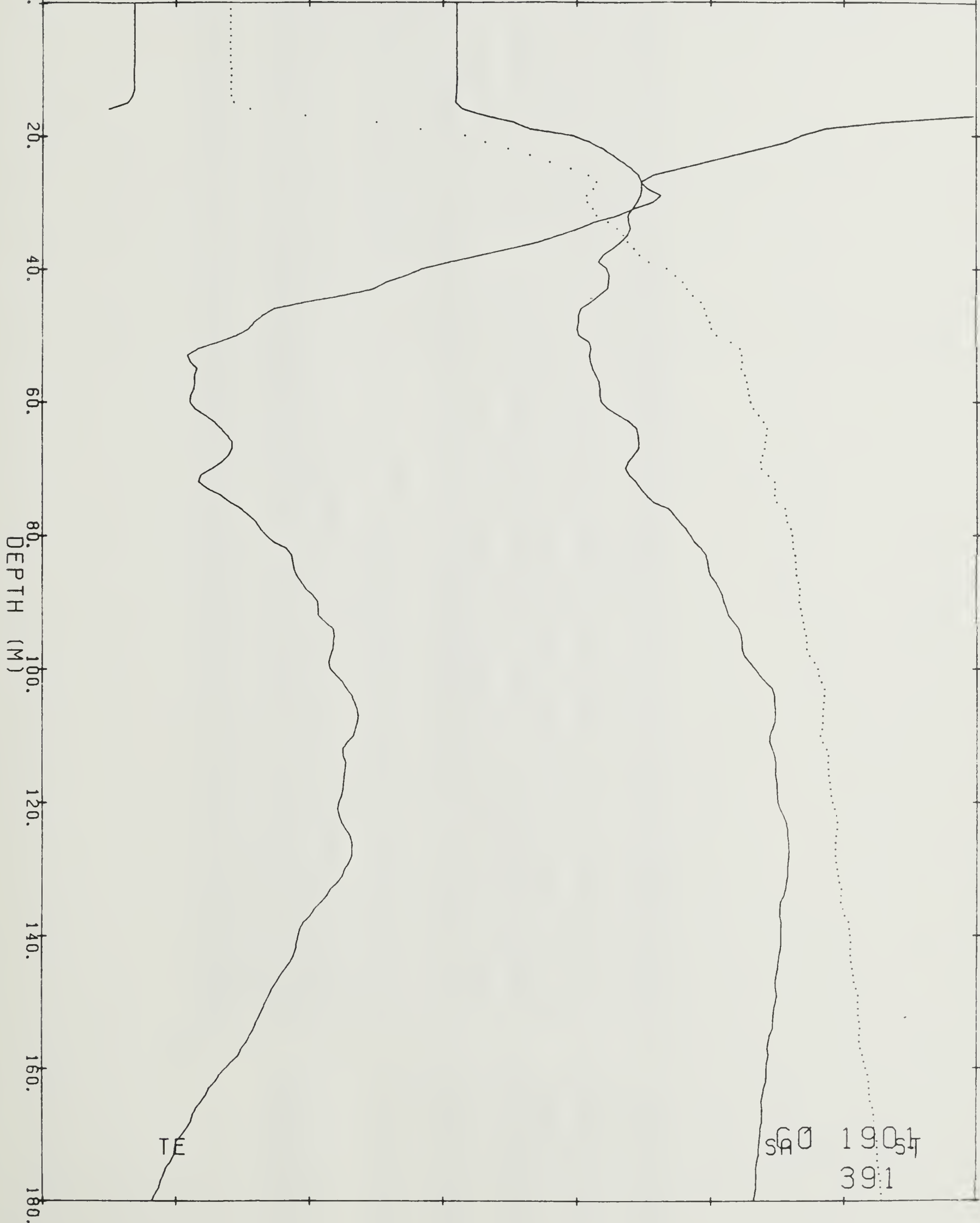
21. 22. 23. 24. 25. 26. 27. 28.

SALINITY (PPT)

30. 31. 32. 33. 34. 35. 36. 37.

TEMPERATURE (DEG C)

8. 10. 12. 14. 16. 18. 20. 22.



SHIP CO CRUISE 19-01 STATION 392 POSITION 39 30.53 N 71 23.82 W
 LOCAL TIME 1416 DATE 75/ 7/25 WIND = 16knots DIR = 200 DEPTH=2259M

DTH	TEM	SAL	SGT	AND	OYN	SVL	OTH	
0	23.123	33.606	22.843	500.5	0.000	1528.7	0.0	
5	23.123	33.606	22.843	500.7	.025	1528.8	5.0	
10	23.092	33.611	22.856	499.7	.050	1528.8	10.0	
15	22.752	33.576	22.926	493.1	.075	1528.0	15.0	
20	19.688	34.206	24.239	367.9	.096	1520.7	20.0	
25	18.799	34.582	24.754	319.0	.114	1518.7	25.0	
30	16.014	34.290	25.199	276.7	.128	1510.2	30.0	
35	11.718	33.909	25.795	219.9	.141	1495.7	35.0	
40	12.453	34.415	26.048	196.1	.151	1498.9	40.0	
45	11.329	34.508	26.333	169.1	.160	1495.2	45.0	
50	11.876	34.677	26.362	166.5	.169	1497.4	50.0	
55	10.295	34.527	26.532	150.3	.177	1491.7	55.0	
60	10.308	34.604	26.590	145.0	.184	1492.0	60.0	
65	11.156	34.940	26.701	134.7	.191	1495.5	65.0	
70	11.806	35.159	26.750	130.2	.198	1498.1	70.0	
75	12.230	35.369	26.832	122.6	.204	1499.9	75.0	
80	12.383	35.433	26.852	120.9	.210	1500.6	80.0	
85	12.228	35.479	26.918	114.8	.216	1500.2	85.0	
90	12.590	35.661	26.988	108.3	.222	1501.8	90.0	
95	13.027	35.758	26.976	109.7	.227	1503.5	95.0	
100	12.999	35.816	27.026	105.0	.232	1503.5	100.0	
105	13.039	35.815	27.017	106.0	.238	1503.7	105.0	
110	12.844	35.783	27.032	104.7	.243	1503.1	110.0	
115	12.663	35.754	27.046	103.5	.248	1502.6	115.0	
120	12.594	35.735	27.045	103.7	.253	1502.4	120.0	
125	12.361	35.696	27.060	102.3	.258	1501.6	125.0	
130	12.139	35.677	27.089	99.7	.264	1500.9	130.0	
135	12.100	35.666	27.088	99.9	.269	1500.9	135.0	
140	12.048	35.670	27.101	98.8	.273	1500.8	140.0	
145	11.976	35.658	27.105	98.5	.278	1500.6	145.0	
150	11.886	35.652	27.118	97.4	.283	1500.3	150.0	
155	11.812	35.646	27.128	96.6	.288	1500.2	155.0	
160	11.709	35.636	27.139	95.6	.293	1499.9	160.0	
165	11.658	35.623	27.139	95.7	.298	1499.8	165.0	
170	11.556	35.605	27.144	95.3	.303	1499.5	170.0	
175	11.431	35.592	27.158	94.1	.307	1499.1	175.0	
180	11.342	35.564	27.152	94.7	.312	1498.8	180.0	
185	11.163	35.546	27.172	93.0	.317	1498.3	185.0	
190	10.946	35.523	27.193	91.0	.321	1497.5	190.0	
195	10.772	35.499	27.206	89.8	.326	1497.0	195.0	
200	10.497	35.470	27.233	87.3	.330	1496.0	200.0	
225	9.674	35.363	27.292	82.0	.351	1493.3	225.0	
250	9.020	35.270	27.327	78.8	.371	1491.2	250.0	
275	8.344	35.200	27.379	74.0	.391	1489.0	275.0	
300	7.736	35.174	27.450	67.4	.408	1487.0	300.0	
325	7.304	35.145	27.490	63.8	.425	1485.7	325.0	
350	6.509	35.089	27.556	57.4	.440	1482.9	350.0	
375	6.204	35.073	27.584	54.9	.454	1482.1	375.0	
400	5.899	35.054	27.608	52.7	.467	1481.3	400.0	
425	5.663	35.031	27.620	51.7	.480	1480.7	425.0	
450	5.517	35.034	27.640	50.0	.493	1480.5	450.0	
475	5.256	35.014	27.656	48.5	.505	1479.8	475.0	
500	5.181	35.011	27.663	48.1	.517	1479.9	500.0	
600	4.845	34.996	27.690	46.3	.565	1480.2	600.0	
700	4.564	34.973	27.704	45.7	.611	1480.6	700.0	
800	4.360	34.954	27.711	45.7	.656	1481.4	800.0	
900	4.202	34.940	27.717	45.8	.702	1482.4	900.0	
1000	4.091	34.937	27.727	45.6	.748	1483.5	1000.0	
1100	4.023	34.939	27.735	45.6	.793	1484.9	1100.0	
1200	3.963	34.941	27.743	45.6	.839	1486.3	1200.0	
1300	3.884	34.944	27.754	45.3	.884	1487.6	1300.0	
1400	3.809	34.946	27.763	45.1	.930	1489.0	1400.0	
1500	3.764	34.947	27.769	45.3	.975	1490.5	1500.0	
1600	3.693	34.944	27.773	45.4	1.020	1491.8	1600.0	
1700	3.614	34.932	27.772	46.0	1.066	1493.1	1700.0	
1800	3.514	34.919	27.771	46.5	1.112	1494.3	1800.0	
1900	3.411	34.900	27.766	47.2	1.159	1495.6	1900.0	
2000	3.274	34.872	27.757	48.2	1.207	1496.6	2000.0	
2100	3.130	34.831	27.738	49.9	1.256	1497.6	2100.0	
2137	3.111	34.811	27.724	51.3	1.274	1498.1	2137.0	
DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
47	10.420	34.248	5.67	0.65		6.71		
61	11.510	34.742	5.26	0.71		6.87		
93	13.440	35.709	5.08	0.64		4.62		
178	10.880	35.378	3.49	1.43		12.19		
358	6.480	35.035	4.46	1.52		14.66		
541	5.120	34.924	5.39	0.50				
726	4.610	34.996	5.88	1.25		12.25		
912	4.270	34.985	6.09	1.25		12.14		
1102	4.040	34.971	6.22	1.24		12.62		
1460	3.820	34.974	6.28	1.24		13.48		
1676	3.670	34.969	6.28	1.25		14.45		
2222	3.110	34.953	6.43	1.20		17.24		

SIGMA-T

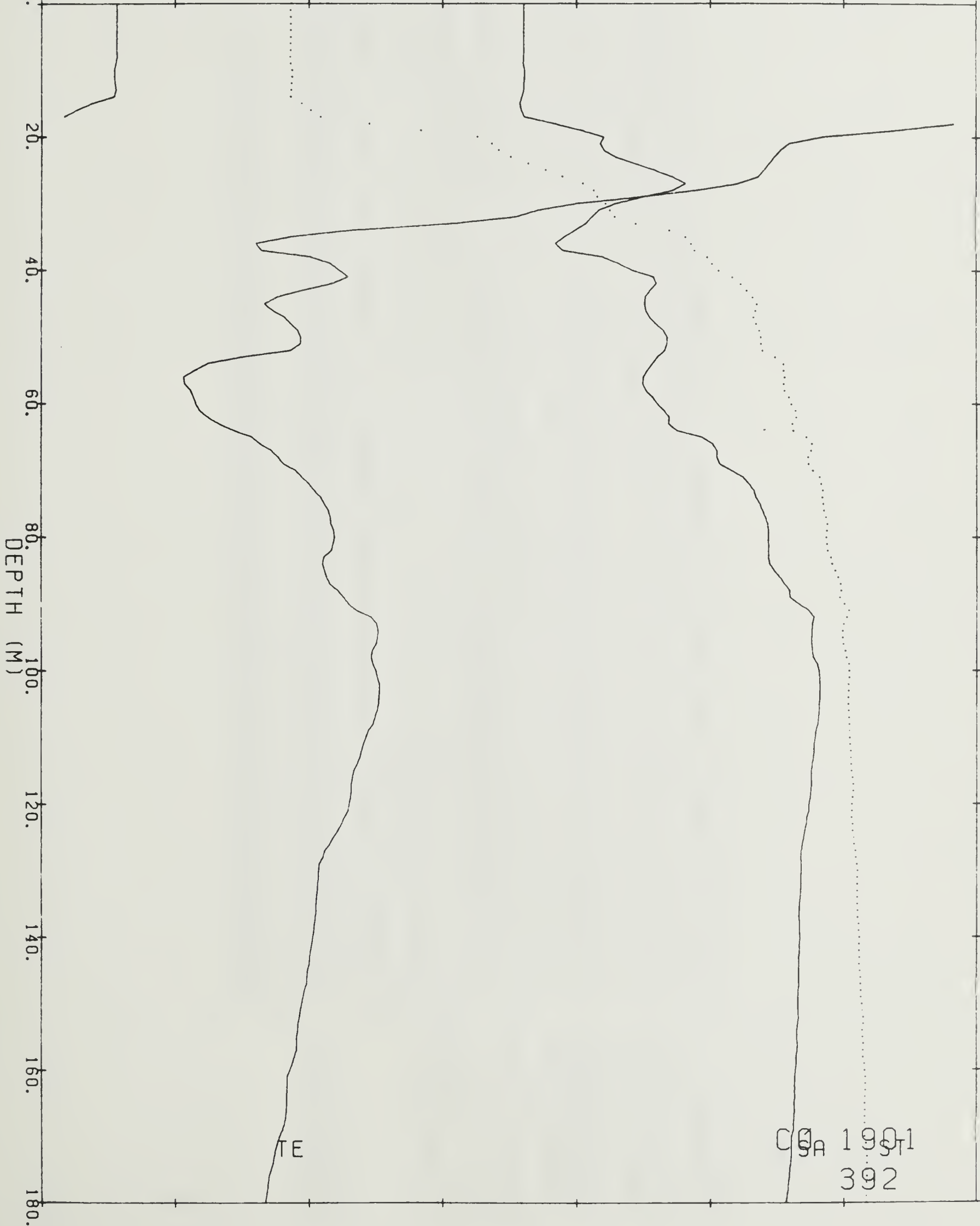
21. 22. 23. 24. 25. 26. 27. 28.

SALINITY (PPT)

30. 31. 32. 33. 34. 35. 36. 37.

TEMPERATURE (DEG C)

8. 10. 12. 14. 16. 18. 20. 22.



SHIP CO CRUISE 19-01 STATION 393 POSITION 39 37.25 N 71 28.80 W
 LOCAL TIME 2136 DATE 75/ 7/25 WIND = 16knots DIR = 200 DEPTH=1615M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	OTH
0	23.091	32.990	22.386	544.3	0.000	1527.9	0.0
5	23.091	32.990	22.386	544.4	.027	1528.0	5.0
10	23.091	32.991	22.386	544.5	.054	1528.1	10.0
15	22.524	33.549	22.970	488.9	.080	1527.4	15.0
20	19.382	34.457	24.510	342.1	.101	1520.1	20.0
25	17.967	34.551	24.937	301.5	.117	1516.3	25.0
30	16.674	34.661	25.332	264.1	.131	1512.6	30.0
35	14.460	34.692	25.852	214.7	.143	1505.9	35.0
40	13.560	34.961	26.249	177.1	.153	1503.3	40.0
45	12.298	34.893	26.449	158.2	.161	1499.1	45.0
50	12.369	34.964	26.490	154.4	.169	1499.5	50.0
55	12.573	35.198	26.632	141.1	.177	1500.6	55.0
60	12.683	35.256	26.655	139.0	.184	1501.1	60.0
65	12.777	35.351	26.710	134.0	.190	1501.6	65.0
70	12.842	35.422	26.752	130.1	.197	1502.0	70.0
75	12.854	35.455	26.775	128.1	.204	1502.2	75.0
80	12.813	35.463	26.790	126.8	.210	1502.1	80.0
85	12.819	35.510	26.825	123.6	.216	1502.3	85.0
90	12.909	35.543	26.833	123.1	.222	1502.7	90.0
95	12.891	35.554	26.845	122.0	.228	1502.7	95.0
100	13.003	35.602	26.860	120.8	.235	1503.3	100.0
105	12.926	35.574	26.853	121.5	.241	1503.1	105.0
110	12.781	35.553	26.866	120.4	.247	1502.6	110.0
115	12.708	35.537	26.868	120.3	.253	1502.4	115.0
120	12.583	35.511	26.873	120.0	.259	1502.1	120.0
125	12.481	35.498	26.883	119.1	.265	1501.8	125.0
130	12.289	35.465	26.895	118.1	.271	1501.2	130.0
135	12.133	35.449	26.913	116.5	.276	1500.7	135.0
140	12.056	35.438	26.919	116.0	.282	1500.5	140.0
145	12.051	35.471	26.946	113.6	.288	1500.6	145.0
150	12.027	35.458	26.940	114.2	.294	1500.6	150.0
155	11.995	35.461	26.949	113.6	.299	1500.6	155.0
160	11.983	35.465	26.954	113.2	.305	1500.6	160.0
165	11.961	35.471	26.963	112.4	.311	1500.6	165.0
170	11.915	35.462	26.965	112.4	.316	1500.5	170.0
175	11.881	35.464	26.973	111.7	.322	1500.5	175.0
180	11.838	35.462	26.980	111.2	.327	1500.4	180.0
185	11.799	35.459	26.985	110.8	.333	1500.4	185.0
190	11.615	35.422	26.991	110.3	.339	1499.8	190.0
195	11.417	35.405	27.015	108.1	.344	1499.1	195.0
200	11.275	35.458	27.082	101.8	.349	1498.8	200.0
225	10.374	35.280	27.106	99.8	.374	1495.8	225.0
250	9.598	35.203	27.179	93.1	.399	1493.3	250.0
275	8.757	35.127	27.257	85.8	.421	1490.4	275.0
300	8.102	35.090	27.329	79.0	.442	1488.3	300.0
325	7.517	35.077	27.406	71.9	.460	1486.5	325.0
350	7.061	35.060	27.458	67.1	.478	1485.1	350.0
375	6.778	35.059	27.496	63.6	.494	1484.4	375.0
400	6.322	35.044	27.546	59.0	.509	1483.0	400.0
425	5.890	35.055	27.610	52.8	.523	1481.6	425.0
450	5.443	35.034	27.649	49.0	.536	1480.2	450.0
475	5.236	35.034	27.675	46.8	.548	1479.8	475.0
500	5.161	35.038	27.687	45.9	.560	1479.9	500.0
600	4.860	35.038	27.722	43.4	.604	1480.3	600.0
700	4.689	35.039	27.742	42.3	.647	1481.2	700.0
800	4.542	35.043	27.762	41.3	.689	1482.3	800.0
900	4.360	35.043	27.782	40.1	.730	1483.2	900.0
1000	4.203	35.036	27.793	39.7	.770	1484.1	1000.0
1100	4.071	35.028	27.801	39.6	.809	1485.2	1100.0
1200	3.969	35.015	27.801	40.2	.849	1486.4	1200.0
1300	3.901	34.997	27.794	41.6	.890	1487.8	1300.0
1400	3.841	34.976	27.784	43.3	.932	1489.2	1400.0
1500	3.766	34.948	27.769	45.2	.977	1490.5	1500.0
1533	3.718	34.934	27.763	45.9	.992	1490.8	1533.0

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
1	23.090	33.230	5.35	0.11		1.26		
28	17.650	34.686	6.21	0.03		2.63		
43	12.340	34.855	5.86	0.36		4.65		
73	12.870	35.499	4.97	0.68		5.25		
91	13.000	35.618	5.09	0.70		5.31		
368	7.010	35.096	4.15	1.61		15.65		
548	5.060	35.005	5.35	1.35		13.29		
736	4.630	35.030	5.70	1.35		12.64		
915	4.350	35.004	5.99	1.27		12.47		
1286	3.950	34.976	6.18	1.24		13.02		
1452	3.820	34.969	6.24	1.23		13.68		
1591	3.710	34.987	6.30	1.21		14.61		

SIGMA-T

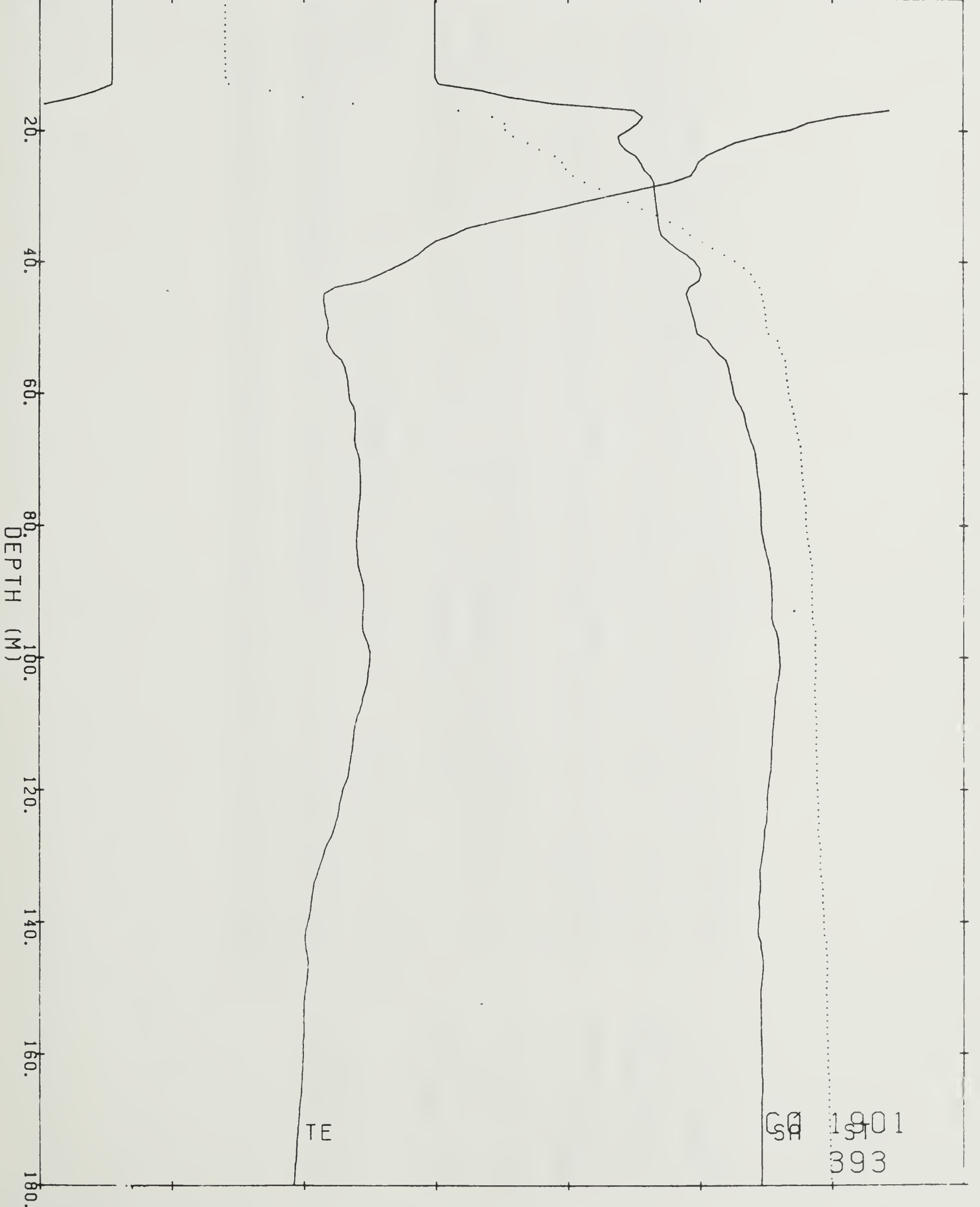
21. 22. 23. 24. 25. 26. 27. 28.

SALINITY (PPT)

30. 31. 32. 33. 34. 35. 36. 37.

TEMPERATURE (DEG C)

8. 10. 12. 14. 16. 18. 20. 22.



SHIP CO CRUISE 19-01 STATION 394 POSITION 39 40.85 N 71 31.56 W
 LOCAL TIME 722 DATE 75/ 7/26 WIND = 8knots DIR = 280 DEPTH=1641M

DTH	TEM	SAL	SGT	AND	DYN	SVL	DTH	
0	22.887	32.713	22.234	558.8	0.000	1527.1	0.0	
5	22.891	32.717	22.236	558.8	.028	1527.2	5.0	
10	22.740	33.030	22.516	532.2	.055	1527.2	10.0	
15	20.266	34.725	24.483	344.5	.077	1522.8	15.0	
20	19.516	34.750	24.699	324.1	.094	1520.8	20.0	
25	18.687	34.689	24.864	308.6	.110	1518.5	25.0	
30	17.251	34.828	25.323	265.0	.124	1514.6	30.0	
35	14.230	34.663	25.879	212.2	.136	1505.1	35.0	
40	13.331	34.698	26.093	191.9	.146	1502.3	40.0	
45	12.763	34.750	26.247	177.4	.155	1500.5	45.0	
50	12.333	34.880	26.432	159.9	.164	1499.3	50.0	
55	12.252	34.980	26.526	151.2	.171	1499.2	55.0	
60	12.516	35.207	26.650	139.5	.179	1500.5	60.0	
65	12.941	35.407	26.721	133.0	.186	1502.2	65.0	
70	12.935	35.426	26.737	131.6	.192	1502.3	70.0	
75	12.871	35.435	26.757	129.9	.199	1502.2	75.0	
80	12.988	35.549	26.821	123.9	.205	1502.8	80.0	
85	12.898	35.505	26.805	125.5	.211	1502.5	85.0	
90	13.122	35.519	26.771	128.9	.218	1503.4	90.0	
95	12.933	35.565	26.845	122.0	.224	1502.9	95.0	
100	12.920	35.563	26.846	122.1	.230	1502.9	100.0	
105	12.799	35.510	26.829	123.8	.236	1502.5	105.0	
110	12.708	35.522	26.857	121.3	.242	1502.3	110.0	
115	12.648	35.509	26.859	121.2	.248	1502.2	115.0	
120	12.558	35.493	26.864	120.8	.254	1502.0	120.0	
125	12.410	35.454	26.863	121.0	.260	1501.5	125.0	
130	12.288	35.452	26.885	119.0	.266	1501.1	130.0	
135	12.202	35.449	26.900	117.8	.272	1500.9	135.0	
140	12.133	35.446	26.911	116.8	.278	1500.8	140.0	
145	12.011	35.437	26.927	115.4	.284	1500.4	145.0	
150	12.052	35.468	26.943	114.0	.290	1500.7	150.0	
155	12.168	35.493	26.940	114.4	.295	1501.2	155.0	
160	12.095	35.494	26.955	113.1	.301	1501.0	160.0	
165	12.050	35.471	26.946	114.1	.307	1500.9	165.0	
170	11.895	35.448	26.958	113.0	.313	1500.4	170.0	
175	11.840	35.441	26.963	112.7	.318	1500.3	175.0	
180	11.793	35.445	26.975	111.6	.324	1500.2	180.0	
185	11.680	35.406	26.966	112.6	.329	1499.9	185.0	
190	11.459	35.388	26.994	110.0	.335	1499.2	190.0	
195	11.277	35.353	27.000	109.4	.340	1498.6	195.0	
200	11.101	35.332	27.016	108.0	.346	1498.0	200.0	
225	10.358	35.220	27.062	103.9	.372	1495.6	225.0	
250	9.511	35.153	27.155	95.3	.397	1492.9	250.0	
275	8.639	35.053	27.218	89.4	.420	1489.9	275.0	
300	8.221	35.047	27.278	84.0	.442	1488.7	300.0	
325	7.677	35.031	27.346	77.6	.462	1487.0	325.0	
350	7.169	35.031	27.420	70.7	.481	1485.5	350.0	
375	6.730	35.024	27.475	65.6	.498	1484.1	375.0	
400	6.440	35.021	27.512	62.2	.514	1483.4	400.0	
425	6.046	35.010	27.555	58.2	.529	1482.2	425.0	
450	5.835	35.008	27.580	55.9	.543	1481.8	450.0	
475	5.544	35.005	27.614	52.8	.557	1481.0	475.0	
500	5.216	34.975	27.630	51.2	.570	1480.0	500.0	
600	4.913	34.991	27.678	47.5	.619	1480.5	600.0	
700	4.653	34.992	27.709	45.4	.665	1481.0	700.0	
800	4.471	34.997	27.733	43.9	.710	1481.9	800.0	
900	4.356	35.005	27.752	42.9	.753	1483.1	900.0	
1000	4.243	35.005	27.764	42.5	.796	1484.3	1000.0	
1100	4.186	35.002	27.768	43.0	.839	1485.7	1100.0	
1200	4.124	34.987	27.763	44.2	.882	1487.1	1200.0	
1300	4.046	34.965	27.754	45.8	.927	1488.3	1300.0	
1400	3.903	34.931	27.742	47.4	.974	1489.4	1400.0	
1432	3.867	34.909	27.728	48.8	.989	1489.7	1432.0	
DTH	TEM	SAL	DXG	PHOS	NITR	SIL	NO2	AMM
2	22.630	32.631	5.27	0.15		1.51		
38	13.010	35.020	6.31	0.12		4.10		
84	13.320	35.651	5.01	0.66		4.86		
182	11.790	35.497	4.28	1.10		18.96		
352	7.160	35.001	3.99	1.57		15.65		
453	5.500	35.000	5.05	1.39		14.03		
625	4.850	35.001	5.61	1.29		12.84		
750	4.510	34.999	5.95	1.22		12.36		
858	4.310	34.810						
1045	4.190	34.984	5.57	1.21		12.68		
1212	4.100	34.976	6.11	1.21		12.74		
1439	3.860	34.974	6.32	1.18		13.65		

SIGMA-T

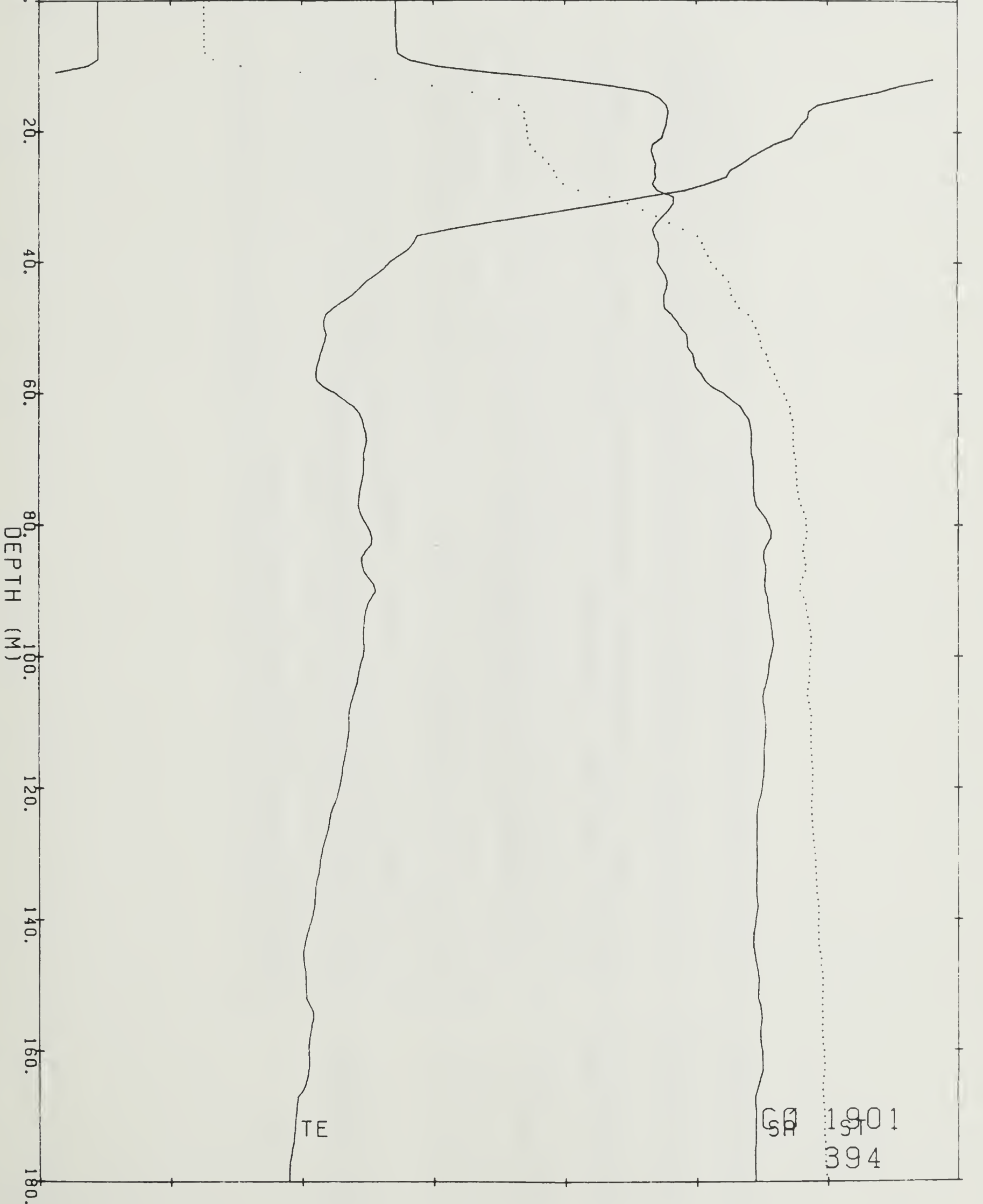
21. 22. 23. 24. 25. 26. 27. 28.

SALINITY (PPT)

30. 31. 32. 33. 34. 35. 36. 37.

TEMPERATURE (DEG C)

8. 10. 12. 14. 16. 18. 20. 22.



SHIP CO CRUISE 19-01 STATION 395 POSITION 39 43.62 N 71 37.07 W
 LOCAL TIME 1110 DATE 75/ 7/26 WIND = 17knots DIR = 360 DEPTH= 907M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	DTH
0	23.060	32.425	21.966	584.4	0.000	1527.2	0.0
5	23.057	32.435	21.975	583.7	.029	1527.3	5.0
10	22.847	32.658	22.203	562.0	.058	1527.1	10.0
15	21.086	34.569	24.144	376.9	.081	1524.8	15.0
20	20.043	35.012	24.761	318.3	.099	1522.6	20.0
25	18.829	34.879	24.973	298.1	.114	1519.1	25.0
30	18.283	35.033	25.228	274.0	.128	1517.8	30.0
35	16.039	34.793	25.580	240.6	.141	1511.0	35.0
40	13.468	34.478	25.894	210.8	.153	1502.4	40.0
45	12.572	34.516	26.103	191.0	.163	1499.6	45.0
50	11.070	34.353	26.260	176.2	.172	1494.2	50.0
55	10.918	34.459	26.369	165.8	.180	1493.9	55.0
60	10.803	34.633	26.525	151.1	.188	1493.8	60.0
65	11.281	34.873	26.626	141.8	.196	1495.9	65.0
70	11.546	34.975	26.656	139.1	.203	1497.0	70.0
75	12.694	35.360	26.734	132.0	.209	1501.5	75.0
80	12.848	35.422	26.751	130.5	.216	1502.2	80.0
85	12.808	35.444	26.776	128.3	.222	1502.2	85.0
90	12.780	35.511	26.834	122.9	.229	1502.2	90.0
95	12.567	35.476	26.849	121.6	.235	1501.6	95.0
100	12.558	35.508	26.876	119.2	.241	1501.6	100.0
105	12.629	35.545	26.890	118.0	.247	1502.0	105.0
110	12.605	35.556	26.903	116.8	.253	1502.0	110.0
115	12.483	35.531	26.908	116.5	.258	1501.7	115.0
120	12.452	35.521	26.906	116.8	.264	1501.6	120.0
125	12.397	35.510	26.909	116.7	.270	1501.5	125.0
130	12.317	35.492	26.911	116.6	.276	1501.3	130.0
135	12.240	35.498	26.930	114.9	.282	1501.1	135.0
140	12.155	35.489	26.940	114.1	.287	1500.9	140.0
145	11.948	35.475	26.969	111.4	.293	1500.3	145.0
150	11.872	35.477	26.985	110.0	.299	1500.1	150.0
155	11.765	35.458	26.990	109.6	.304	1499.8	155.0
160	11.720	35.461	27.001	108.6	.310	1499.7	160.0
165	11.634	35.444	27.004	108.5	.315	1499.5	165.0
170	11.547	35.435	27.014	107.7	.320	1499.2	170.0
175	11.450	35.433	27.030	106.2	.326	1499.0	175.0
180	11.313	35.405	27.034	105.9	.331	1498.5	180.0
185	11.264	35.405	27.043	105.1	.336	1498.4	185.0
190	11.066	35.375	27.056	104.0	.342	1497.8	190.0
195	10.860	35.352	27.076	102.2	.347	1497.1	195.0
200	10.697	35.339	27.095	100.4	.352	1496.6	200.0
225	9.925	35.238	27.151	95.3	.376	1494.1	225.0
250	9.448	35.172	27.180	92.9	.400	1492.7	250.0
275	8.805	35.131	27.252	86.2	.422	1490.6	275.0
300	8.179	35.090	27.318	80.2	.443	1488.6	300.0
325	7.774	35.085	27.375	75.0	.462	1487.5	325.0
350	7.342	35.068	27.424	70.4	.481	1486.2	350.0
375	6.828	35.022	27.460	67.1	.498	1484.5	375.0
400	6.564	35.033	27.505	63.0	.514	1483.9	400.0
425	6.265	35.033	27.545	59.4	.529	1483.1	425.0
450	5.942	35.035	27.588	55.3	.544	1482.2	450.0
475	5.648	35.032	27.623	52.1	.557	1481.5	475.0
500	5.421	35.031	27.650	49.6	.570	1480.9	500.0
600	4.965	35.039	27.710	44.6	.617	1480.7	600.0
700	4.663	35.017	27.728	43.6	.661	1481.1	700.0
800	4.511	35.016	27.744	42.9	.704	1482.1	800.0
900	4.383	34.961	27.714	46.5	.749	1483.1	900.0
901	4.381	34.960	27.714	46.5	.749	1483.2	901.0

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
7	22.690	32.548						
100	13.260	35.665	5.04	0.69		4.97		
182	11.860	35.493	4.41	1.05		8.04		
219	10.680	35.353	3.43	1.46		12.63		
252	9.480	35.231	3.23	1.64		15.27		
345	7.460	35.096	3.90	1.64		15.87		
434	5.970	35.045	4.76	1.46		14.46		
515	5.270	35.032	5.35	1.37		13.44		
596	4.860	35.018	5.65	1.32		13.11		
679	4.700	35.003	5.78	1.27		12.68		
776	4.490	35.049	5.99	1.24		12.74		
885	4.380	34.996	5.88			12.58		

SIGMA-T

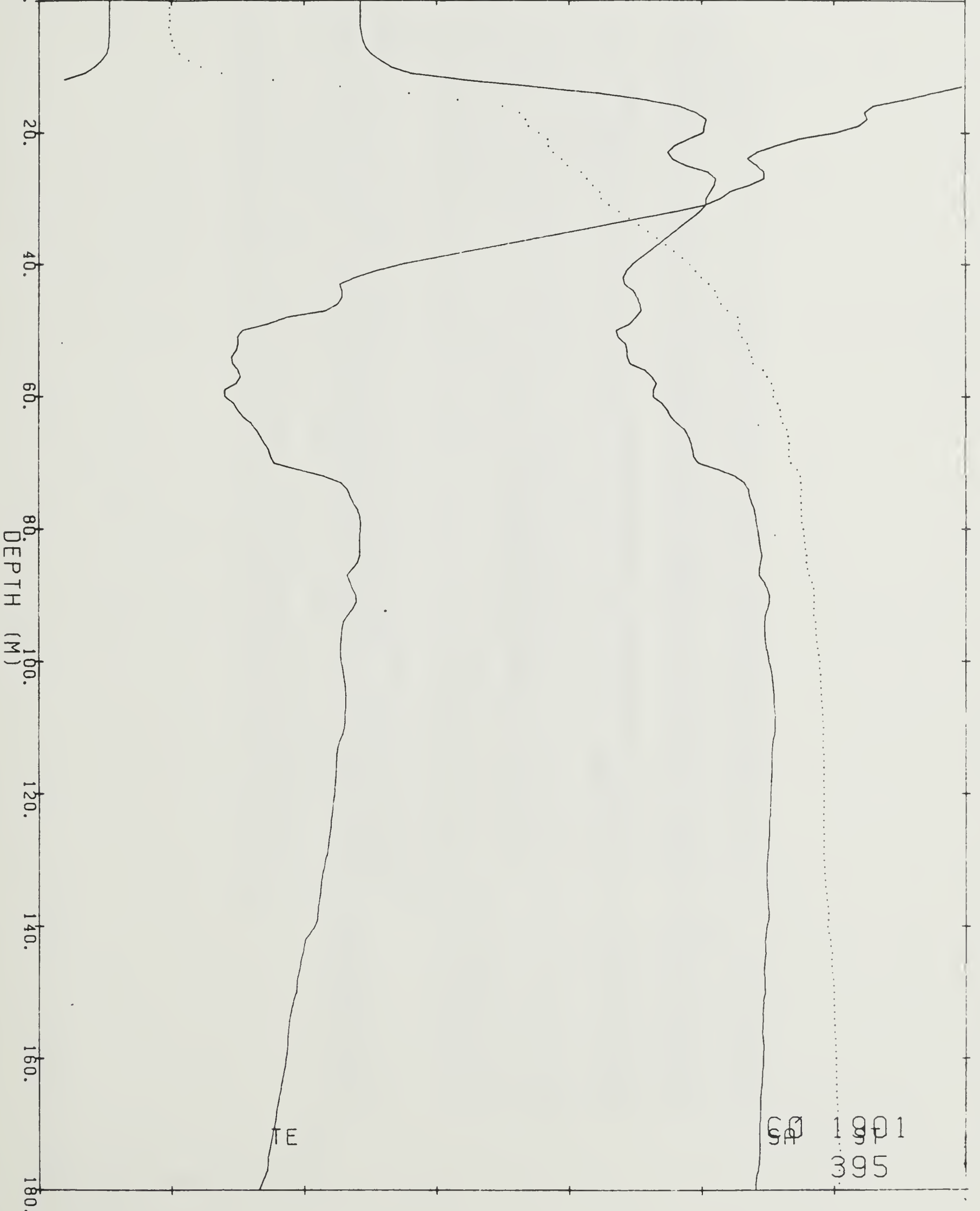
21. 22. 23. 24. 25. 26. 27. 28.

SALINITY (PPT)

30. 31. 32. 33. 34. 35. 36. 37.

TEMPERATURE (DEG C)

8. 10. 12. 14. 16. 18. 20. 22.



SHIP CO CRUISE 19-01 STATION 396 POSITION 39 50.28 N 71 33.65 W
 LOCAL TIME 2005 DATE 75/ 7/26 WIND = 6knots DIR = 330 DEPTH= 486M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	DTH
0	23.084	32.579	22.076	573.9	0.000	1527.4	0.0
5	23.083	32.605	22.096	572.1	.029	1527.5	5.0
10	20.256	33.649	23.666	422.3	.054	1521.4	10.0
15	18.266	34.017	24.455	347.2	.073	1516.3	15.0
20	16.794	34.119	24.888	306.1	.089	1512.2	20.0
25	14.823	34.024	25.259	270.9	.104	1506.0	25.0
30	14.094	33.938	25.347	262.5	.117	1503.7	30.0
35	12.666	33.801	25.530	245.2	.130	1498.8	35.0
40	9.892	33.455	25.764	222.9	.141	1488.7	40.0
45	7.534	33.172	25.905	209.3	.152	1479.5	45.0
50	7.613	33.254	25.959	204.4	.162	1480.0	50.0
55	7.744	33.315	25.988	201.7	.173	1480.6	55.0
60	7.851	33.354	26.003	200.3	.183	1481.2	60.0
65	8.094	33.506	26.087	192.5	.192	1482.4	65.0
70	8.527	33.715	26.186	183.2	.202	1484.4	70.0
75	8.908	33.927	26.293	173.2	.211	1486.2	75.0
80	9.410	34.151	26.388	164.4	.219	1488.4	80.0
85	11.000	34.672	26.521	152.2	.227	1494.9	85.0
90	12.191	35.019	26.568	148.0	.235	1499.6	90.0
95	12.877	35.403	26.731	132.9	.242	1502.5	95.0
100	13.000	35.439	26.734	132.7	.248	1503.0	100.0
105	13.023	35.481	26.762	130.2	.255	1503.3	105.0
110	13.020	35.525	26.796	127.0	.261	1503.4	110.0
115	13.008	35.521	26.796	127.2	.268	1503.4	115.0
120	12.965	35.542	26.821	125.0	.274	1503.4	120.0
125	12.967	35.545	26.823	125.0	.280	1503.5	125.0
130	12.936	35.568	26.847	122.8	.286	1503.5	130.0
135	12.897	35.561	26.849	122.7	.292	1503.4	135.0
140	12.752	35.548	26.868	121.0	.299	1503.0	140.0
145	12.672	35.536	26.875	120.5	.305	1502.8	145.0
150	12.520	35.527	26.898	118.4	.311	1502.4	150.0
155	12.374	35.489	26.897	118.6	.317	1501.9	155.0
160	12.261	35.510	26.935	115.0	.322	1501.6	160.0
165	12.105	35.487	26.948	113.9	.328	1501.1	165.0
170	12.026	35.499	26.972	111.7	.334	1501.0	170.0
175	11.963	35.498	26.984	110.7	.339	1500.8	175.0
180	11.936	35.496	26.987	110.5	.345	1500.8	180.0
185	11.877	35.477	26.984	111.0	.350	1500.7	185.0
190	11.699	35.446	26.994	110.1	.356	1500.1	190.0
195	11.405	35.409	27.020	107.6	.361	1499.1	195.0
200	11.100	35.319	27.006	108.9	.367	1498.0	200.0
225	10.205	35.292	27.145	96.0	.392	1495.2	225.0
250	9.816	35.261	27.188	92.4	.416	1494.1	250.0
275	8.882	35.177	27.276	84.0	.438	1491.0	275.0
300	8.087	35.116	27.352	76.9	.458	1488.3	300.0
325	7.545	35.096	27.417	70.8	.477	1486.6	325.0
350	7.297	35.098	27.454	67.6	.494	1486.0	350.0
375	6.704	35.086	27.528	60.6	.510	1484.1	375.0
400	6.191	35.059	27.575	56.1	.524	1482.5	400.0
425	5.859	35.053	27.613	52.6	.538	1481.5	425.0
450	5.562	35.054	27.651	49.0	.551	1480.7	450.0
475	5.356	35.054	27.676	46.8	.563	1480.3	475.0
479	5.344	35.053	27.677	46.8	.565	1480.3	479.0

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
5	23.000	32.657	5.29	0.16		1.00		
11	22.630	32.912	5.21	0.14		1.36		
20	17.050	34.202	6.31	0.14		7.31		
42	7.710	33.217	6.01	0.84		6.92		
104	13.030	35.471	4.32	0.79		4.82		
176	11.960	35.497	4.57	1.25		7.65		
227	9.850	35.265	3.29	1.63		14.05		
264	8.790	35.162	3.32	1.71		15.57		
319	7.390	35.091	3.79	1.62		14.99		
366	6.700	35.063	4.18	1.61		15.15		
410	5.980	35.040	3.00	1.53		14.57		
473	5.330	35.028	5.03	1.47		13.94		

SIGMA-T

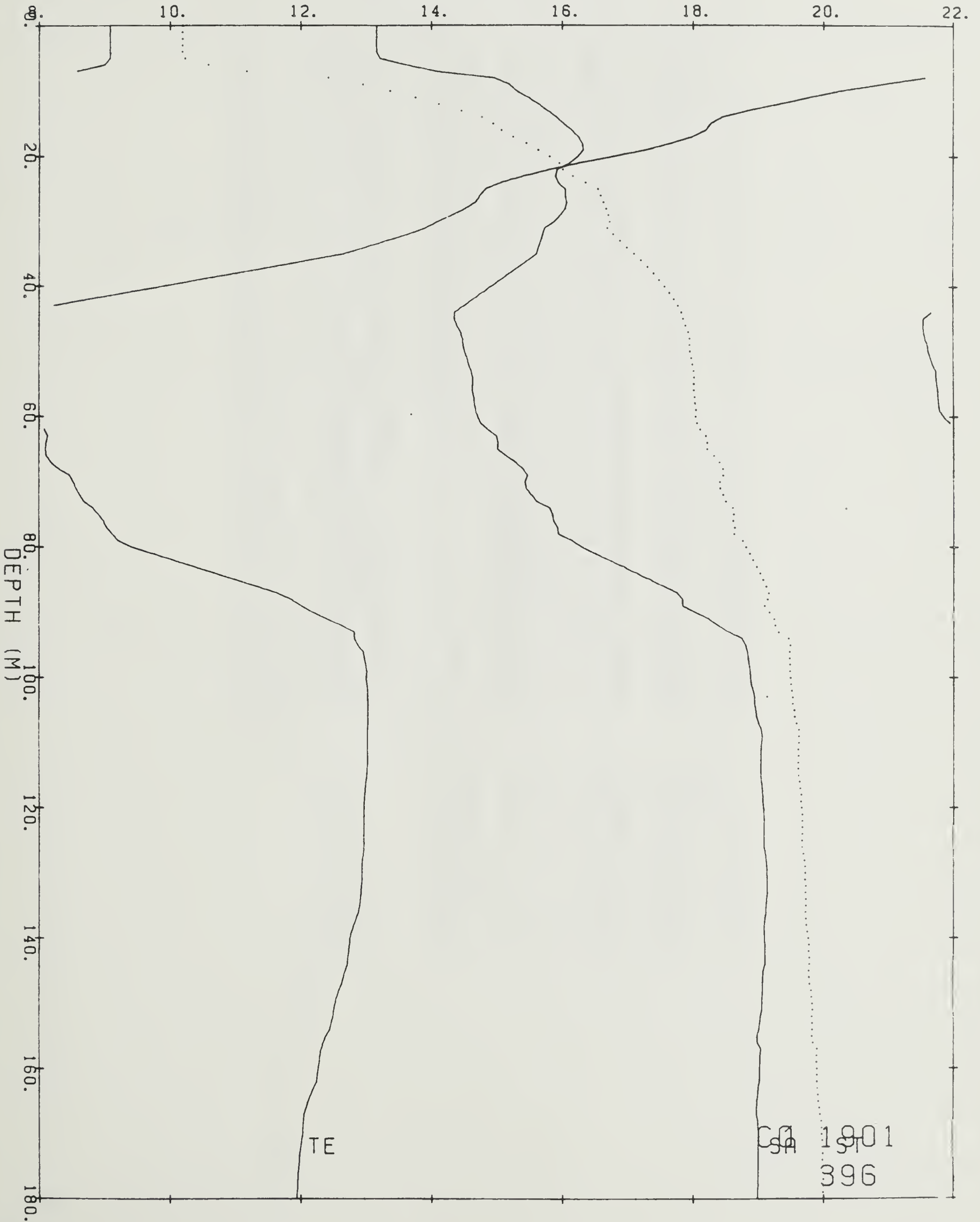
21. 22. 23. 24. 25. 26. 27. 28.

SALINITY (PPT)

30. 31. 32. 33. 34. 35. 36. 37.

TEMPERATURE (DEG C)

8. 10. 12. 14. 16. 18. 20. 22.



SHIP CO CRUISE 19-01 STATION 397 POSITION 39 53.28 N 71 38.94 W
 LOCAL TIME 2252 DATE 75/ 7/26 WIND = 6knots DIR = 340 DEPTH= 214M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	DTH
0	23.031	32.351	21.919	588.9	0.000	1527.0	0.0
5	23.040	32.355	21.919	589.1	.029	1527.2	5.0
10	20.139	32.568	22.873	498.0	.057	1519.8	10.0
15	13.300	33.095	24.858	308.6	.077	1499.7	15.0
20	12.776	33.111	24.974	297.7	.092	1498.1	20.0
25	11.328	33.096	25.235	273.0	.106	1493.1	25.0
30	10.646	33.224	25.456	252.0	.119	1490.9	30.0
35	9.155	33.075	25.587	239.6	.132	1485.4	35.0
40	8.837	33.103	25.659	232.8	.143	1484.3	40.0
45	8.494	33.094	25.704	228.5	.155	1483.1	45.0
50	7.911	33.092	25.789	220.5	.166	1480.9	50.0
55	7.491	33.117	25.868	213.0	.177	1479.4	55.0
60	7.672	33.234	25.935	206.8	.188	1480.3	60.0
65	7.772	33.340	26.004	200.3	.198	1480.9	65.0
70	7.956	33.456	26.068	194.3	.208	1481.9	70.0
75	8.115	33.504	26.082	193.1	.217	1482.6	75.0
80	8.540	33.642	26.127	189.0	.227	1484.5	80.0
85	8.424	33.661	26.159	186.0	.236	1484.2	85.0
90	8.948	34.048	26.381	165.1	.245	1486.7	90.0
95	10.082	34.477	26.530	151.4	.253	1491.6	95.0
100	11.190	34.908	26.670	138.4	.260	1496.2	100.0
105	11.481	34.992	26.681	137.5	.267	1497.4	105.0
110	11.744	35.135	26.743	131.8	.274	1498.5	110.0
115	12.123	35.262	26.769	129.5	.280	1500.1	115.0
120	12.206	35.334	26.809	125.9	.287	1500.6	120.0
125	12.212	35.399	26.859	121.4	.293	1500.7	125.0
130	12.174	35.405	26.871	120.3	.299	1500.7	130.0
135	12.157	35.418	26.884	119.2	.305	1500.7	135.0
140	12.189	35.465	26.914	116.5	.311	1501.0	140.0
145	12.169	35.477	26.928	115.4	.317	1501.0	145.0
150	12.122	35.462	26.925	115.7	.322	1500.9	150.0
155	11.915	35.438	26.946	113.8	.328	1500.3	155.0
160	11.693	35.431	26.983	110.4	.334	1499.6	160.0
165	11.609	35.444	27.009	108.0	.339	1499.4	165.0
170	11.574	35.439	27.012	107.9	.345	1499.3	170.0
175	11.476	35.419	27.015	107.7	.350	1499.0	175.0
180	11.398	35.422	27.031	106.2	.355	1498.8	180.0
185	11.338	35.420	27.041	105.4	.361	1498.7	185.0
190	11.301	35.408	27.039	105.7	.366	1498.6	190.0
195	11.209	35.392	27.043	105.4	.371	1498.4	195.0
200	11.102	35.379	27.053	104.5	.376	1498.1	200.0
203	10.805	35.353	27.086	101.3	.379	1497.0	203.0

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
1	23.070	32.331	5.23	0.14		0.31		
6	23.050	32.335	5.30	0.14		1.15		
13	20.810	32.835	5.89	0.14		1.05		
22	12.730	32.879	7.09	0.29		0.79		
27	10.910	32.959	6.35	0.35		0.89		
51	7.930	33.194	6.21	0.75		5.61		
86	10.370	34.491	5.32	0.78		7.76		
107	12.550	35.411		0.84		6.76		
134	12.350	35.468	4.59	0.92		7.81		
167	11.420	35.432	3.86	1.20		10.17		
179	11.340	35.412	3.96	1.22		10.38		
206	10.890	35.370	3.67	1.35		11.69		

SIGMA-T

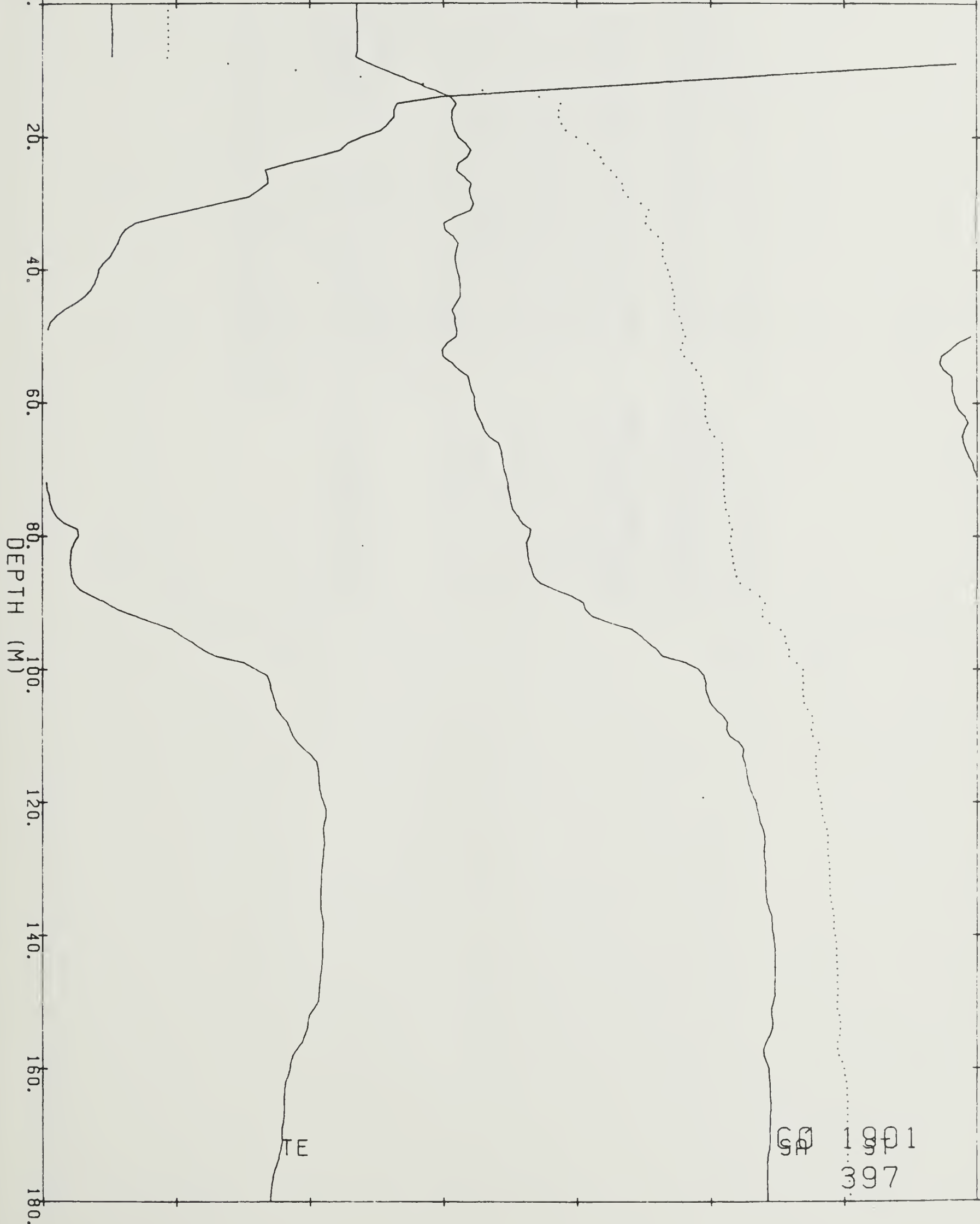
21. 22. 23. 24. 25. 26. 27. 28.

SALINITY (PPT)

30. 31. 32. 33. 34. 35. 36. 37.

TEMPERATURE (DEG C)

8. 10. 12. 14. 16. 18. 20. 22.



SHIP CO CRUISE 19-01 STATION 398 POSITION 39 58.32 N 71 43.14 W
 LOCAL TIME 601 DATE 75/ 7/27 WIND = 6knots DIR = 40 DEPTH= 108M

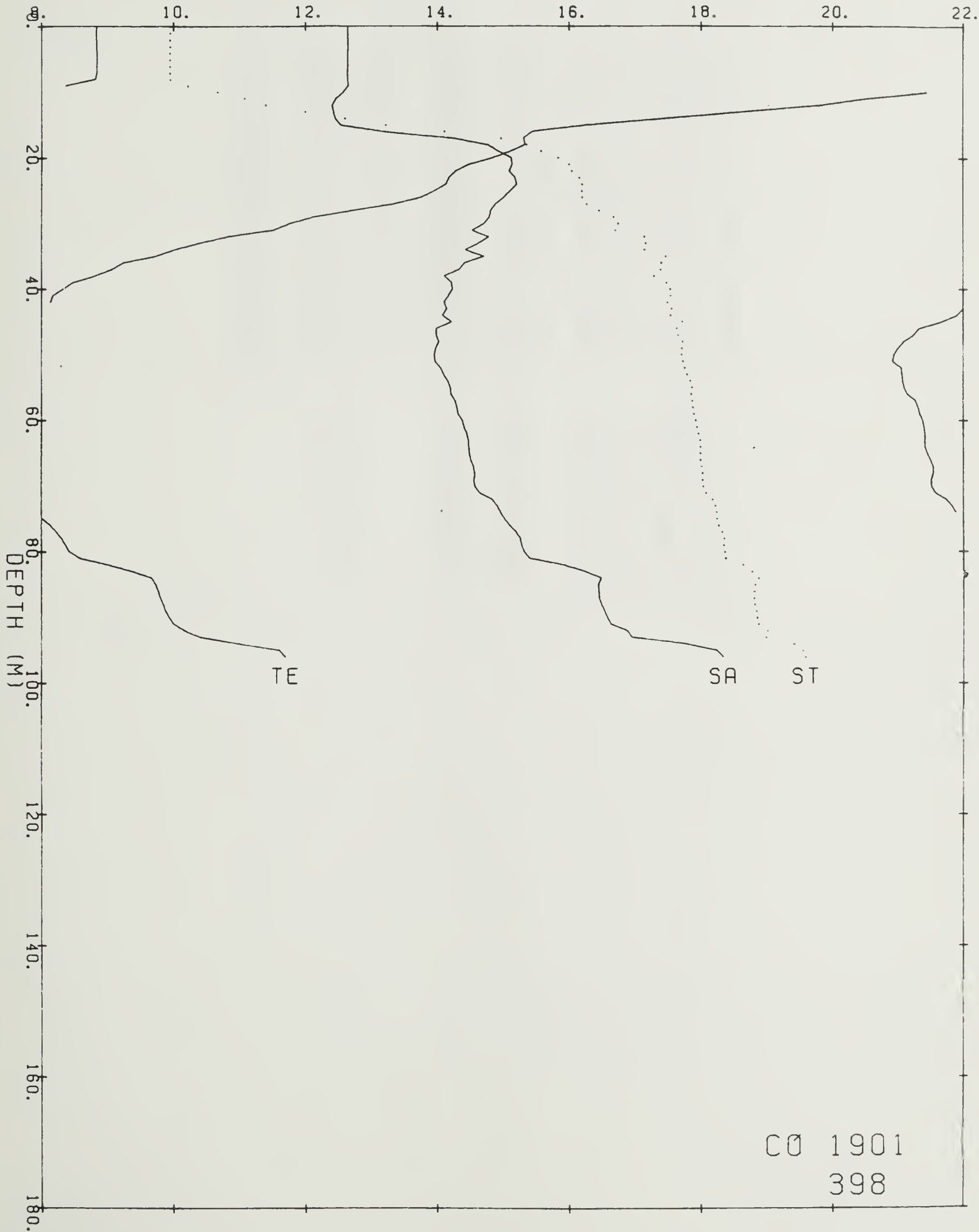
DTH	TEM	SAL	SGT	ANO	DYN	SVL	DTH
0	22.829	32.320	21.952	585.7	0.000	1526.5	0.0
5	22.839	32.321	21.950	586.1	.029	1526.6	5.0
10	21.437	32.286	22.313	551.6	.058	1523.0	10.0
15	16.260	32.267	23.589	429.7	.082	1508.2	15.0
20	14.835	33.562	24.900	304.9	.101	1505.4	20.0
25	13.960	33.553	25.078	288.0	.115	1502.7	25.0
30	11.766	33.350	25.352	262.0	.129	1495.1	30.0
35	9.731	33.356	25.713	227.6	.141	1487.9	35.0
40	8.320	33.116	25.747	224.3	.153	1482.3	40.0
45	7.663	33.108	25.837	215.9	.164	1479.9	45.0
50	6.935	32.974	25.832	216.3	.175	1476.9	50.0
55	7.094	33.099	25.909	209.1	.185	1477.8	55.0
60	7.380	33.192	25.943	206.0	.196	1479.1	60.0
65	7.448	33.246	25.976	202.9	.206	1479.6	65.0
70	7.514	33.286	25.998	200.9	.216	1480.0	70.0
75	8.008	33.509	26.102	191.2	.226	1482.2	75.0
80	8.422	33.660	26.159	186.0	.235	1484.1	80.0
85	9.733	34.223	26.391	164.3	.244	1489.8	85.0
90	9.938	34.293	26.411	162.5	.252	1490.7	90.0
95	11.610	35.123	26.759	129.9	.259	1497.8	95.0
96	11.693	35.169	26.779	128.1	.261	1498.2	96.0

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
1	22.820	32.319	5.26	0.11		1.10		
2	22.790	32.318	5.29	0.08		1.05		
7	22.790	32.321	5.28	0.08		1.21		
10	22.760	32.320	5.32	0.10		1.05		
18	18.880	32.656	6.09	0.12		1.00		
36	9.780	33.223	6.63	0.42		3.04		
43	7.110	32.970	6.09	0.76		6.08		
62	7.290	33.133						
71	7.670	33.349	5.66	0.78		6.60		
81	8.330	33.627	5.84	0.76		7.13		
89	9.950	34.287	5.43	0.73		7.86		
95	11.700	35.184	4.77	0.86		8.02		

SIGMA-T

SALINITY (PPT)

TEMPERATURE (DEG C)



C0 1901
398

SHIP CO CRUISE 19-01 STATION 399 POSITION 40 2.15 N 71 47.69 W
 LOCAL TIME 836 DATE 75/ 7/27 WIND = 6knots DIR = 40 DEPTH= 99M

DTH	TEM	SAL	SGT	AND	DYN	SVL	DTH
0	22.711	31.863	21.639	615.7	0.000	1525.7	0.0
5	22.717	31.861	21.636	616.2	.031	1525.8	5.0
10	19.196	32.304	22.914	494.1	.059	1516.9	10.0
15	13.675	32.730	24.501	342.7	.079	1500.5	15.0
20	11.231	32.742	24.977	297.4	.095	1492.3	20.0
25	9.795	32.789	25.260	270.5	.110	1487.2	25.0
30	8.171	32.718	25.457	251.7	.123	1481.1	30.0
35	7.538	32.784	25.600	238.2	.135	1478.8	35.0
40	7.227	32.790	25.648	233.7	.147	1477.7	40.0
45	7.063	32.879	25.740	225.0	.158	1477.2	45.0
50	7.214	33.003	25.817	217.8	.169	1478.1	50.0
55	7.678	33.126	25.849	214.9	.180	1480.1	55.0
60	7.857	33.235	25.909	209.3	.191	1481.1	60.0
65	7.817	33.272	25.944	206.0	.201	1481.0	65.0
70	8.215	33.450	26.025	198.5	.211	1482.9	70.0
75	8.431	33.560	26.079	193.5	.221	1483.9	75.0
80	8.831	33.702	26.129	188.9	.231	1485.7	80.0
85	8.904	33.883	26.259	176.6	.240	1486.3	85.0
90	9.169	33.987	26.298	173.0	.248	1487.5	90.0
90	9.169	33.987	26.298	173.0	.248	1487.5	90.0

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
1	22.650	31.857	5.35	0.12		1.26		
6	22.640	31.856	5.35	0.12		1.26		
14	19.020	32.366	5.92	0.13		1.00		
20	11.590	32.715	7.24	0.22		0.84		
27	11.140	32.816	7.26	0.28		1.10		
37	7.490	32.853	6.65	0.65		4.56		
45	7.530	32.946	6.45	0.66		4.61		
54	7.490	32.997	6.35	0.70		5.03		
61	7.560	33.186	6.01	0.78		6.45		
70	8.320	33.398	6.06	0.71		6.18		
79	8.810	33.761	5.75	0.71		7.65		
88	9.190	33.986						

SIGMA-T

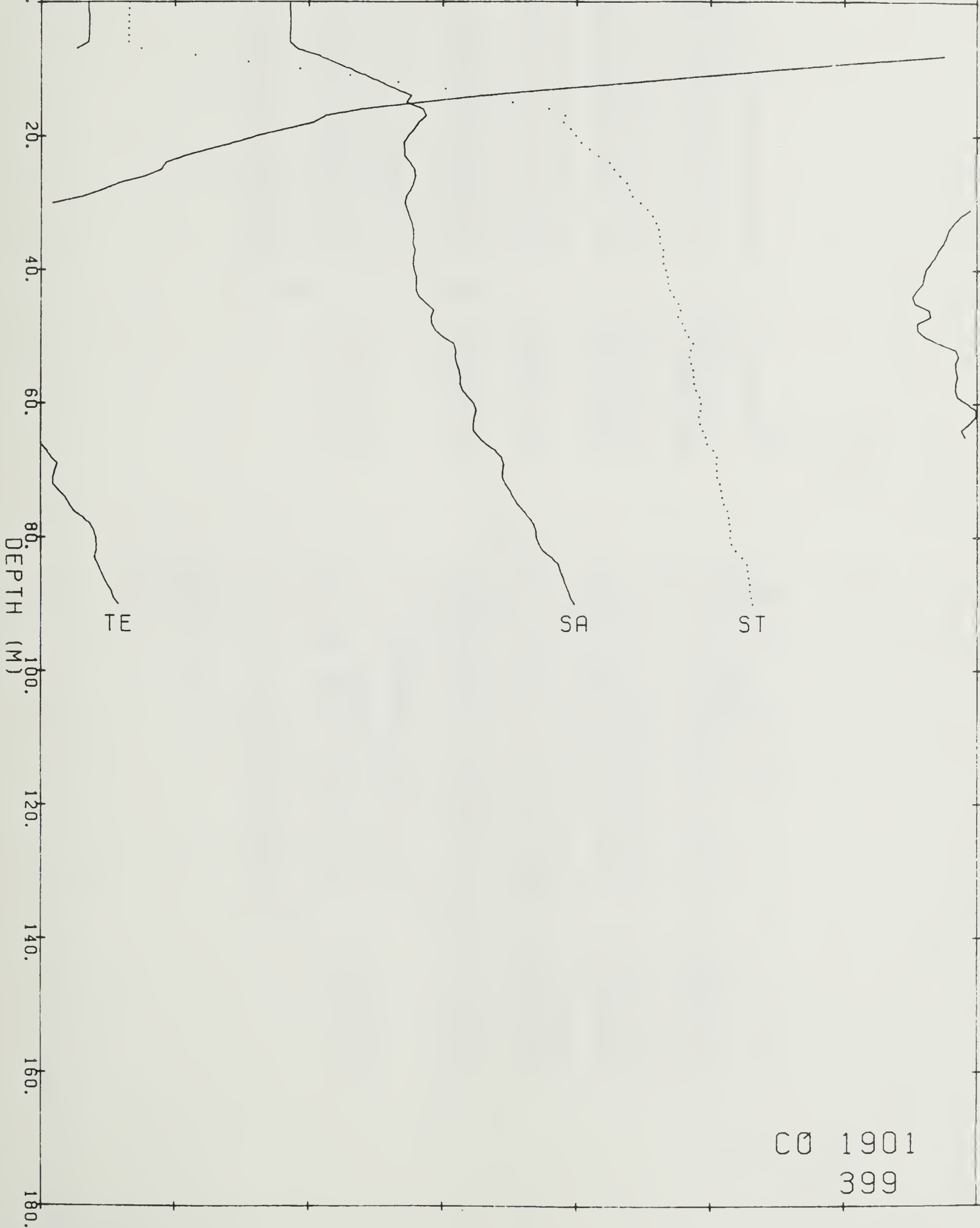
21. 22. 23. 24. 25. 26. 27. 28.

SALINITY (PPT)

30. 31. 32. 33. 34. 35. 36. 37.

TEMPERATURE (DEG C)

8. 10. 12. 14. 16. 18. 20. 22.



C0 1901
399

SHIP CO CRUISE 19-01 STATION 400 POSITION 40 13.07 N 71 53.45 W
 LOCAL TIME 1255 DATE 75/ 7/27 WIND = 7knots DIR = 60 DEPTH= 79M

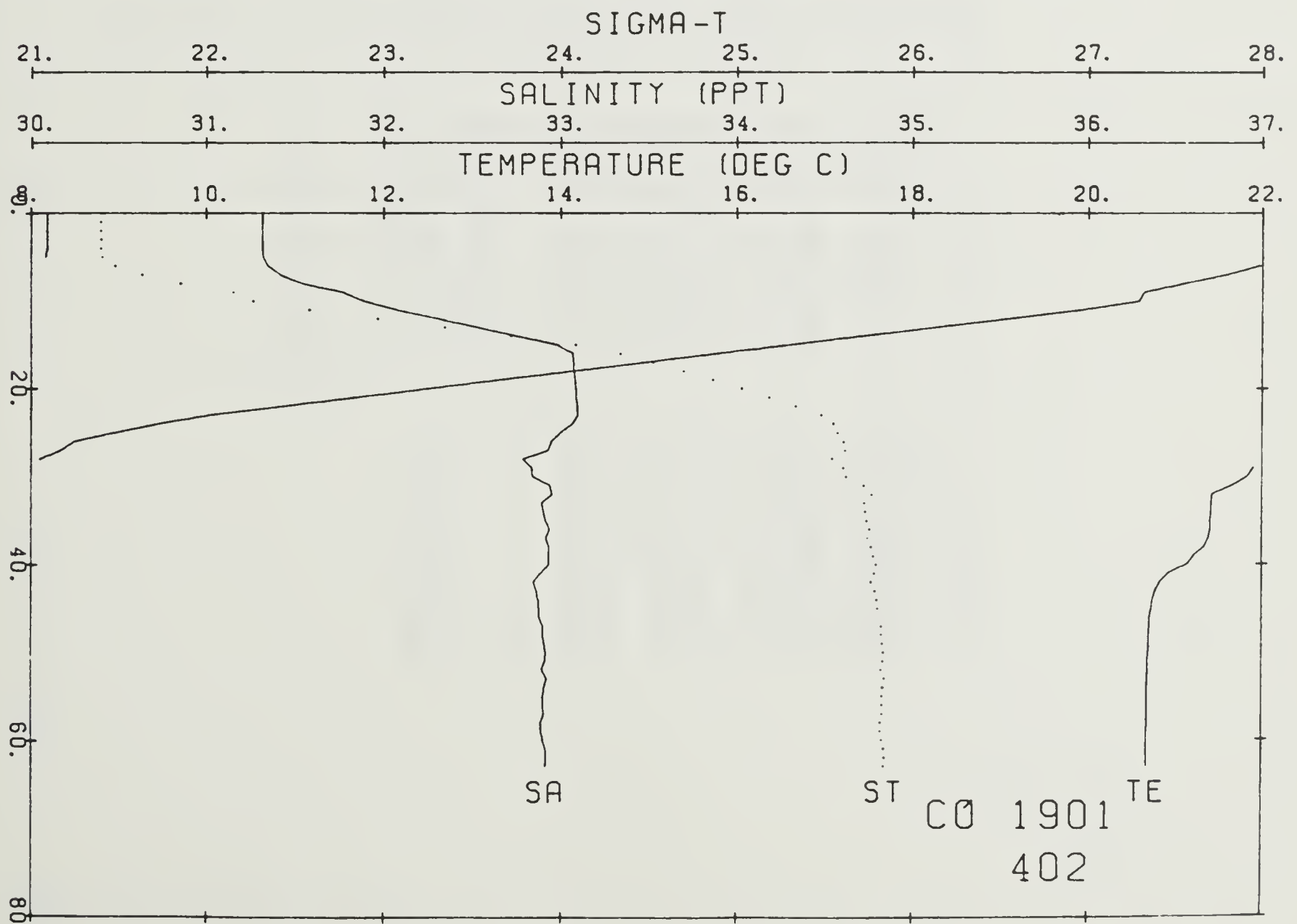
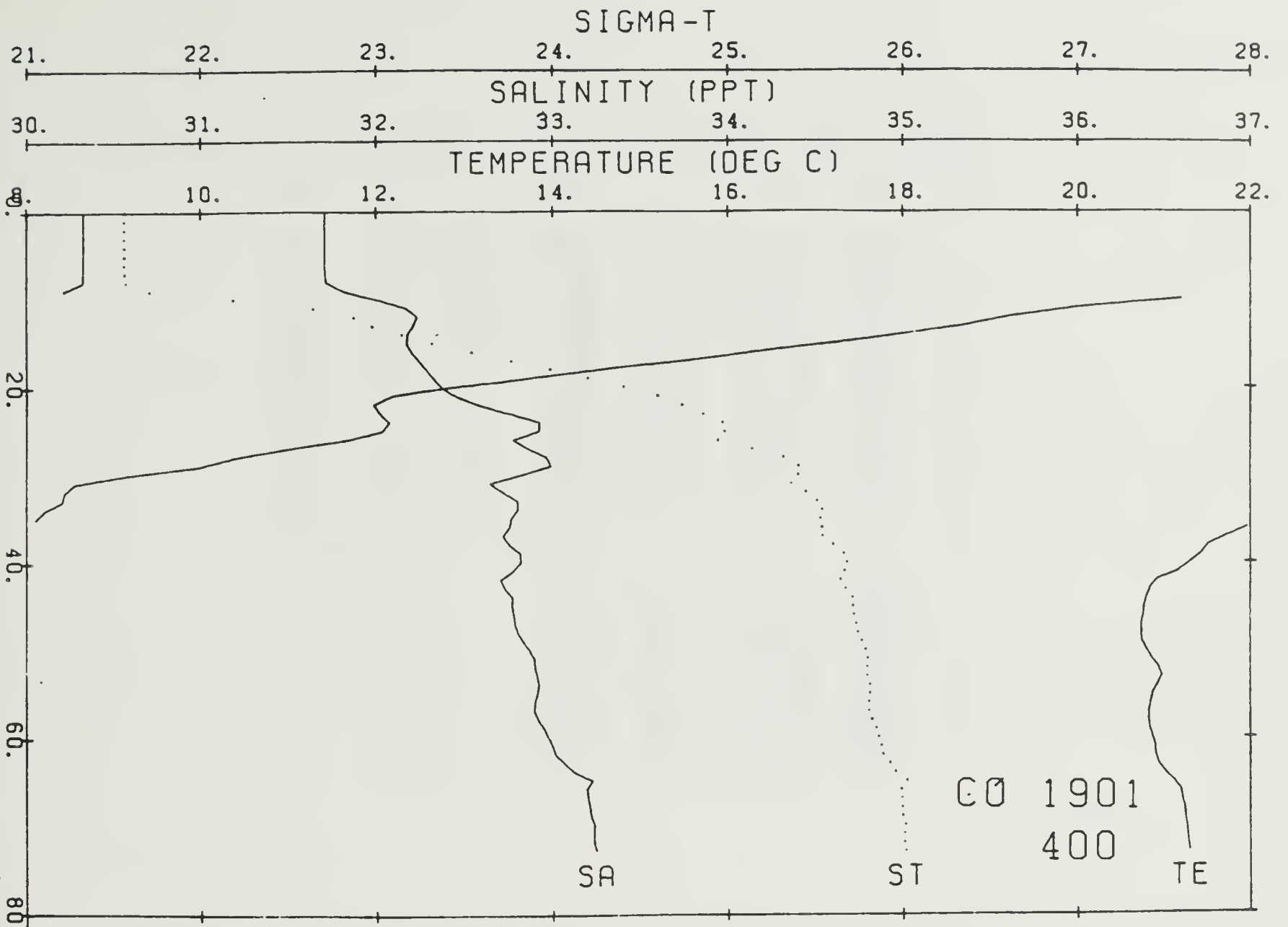
DTH	TEM	SAL	SGT	AND	DYN	SVL	DTH
0	22.649	31.707	21.539	625.3	0.000	1525.3	0.0
5	22.649	31.707	21.539	625.5	.031	1525.4	5.0
10	21.195	32.007	22.166	565.6	.061	1522.0	10.0
15	17.208	32.169	23.295	457.8	.087	1511.0	15.0
20	12.859	32.370	24.384	353.9	.107	1497.4	20.0
25	12.067	32.923	24.964	298.7	.123	1495.5	25.0
30	9.157	32.818	25.386	258.6	.137	1485.0	30.0
35	8.095	32.766	25.506	247.2	.150	1481.0	35.0
40	7.301	32.821	25.662	232.4	.162	1478.0	40.0
45	6.763	32.770	25.694	229.3	.173	1475.9	45.0
50	6.798	32.868	25.767	222.5	.185	1476.3	50.0
55	6.871	32.913	25.792	220.1	.196	1476.7	55.0
60	6.873	32.975	25.841	215.6	.207	1476.9	60.0
65	7.125	33.224	26.003	200.3	.217	1478.3	65.0
70	7.269	33.236	25.993	201.4	.227	1478.9	70.0
73	7.303	33.248	25.998	201.0	.233	1479.1	73.0

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
3	22.560	31.681	5.40	0.14		1.44		
10	20.910	31.817	5.62	0.14		1.78		
14	16.890	32.949	6.69	0.18		0.85		
32	8.500	32.763	6.83	0.55		3.09		
42	6.800	32.728	6.39	1.65		6.87		
50	7.000	32.859	6.41	0.77		6.45		
56	6.800	32.863	6.28	0.81		7.51		
67	7.250	32.860	6.27	0.82		7.62		
72	7.300	33.175	5.82	0.89		10.34		

SHIP CO CRUISE 19-01 STATION 402 POSITION 40 19.02 N 71 58.86 W
 LOCAL TIME 1725 DATE 75/ 7/27 WIND = 8knots DIR = 60 DEPTH= 69M

DTH	TEM	SAL	SGT	AND	DYN	SVL	DTH
0	22.178	31.317	21.374	641.1	0.000	1523.7	0.0
5	22.160	31.319	21.381	640.6	.032	1523.7	5.0
10	20.580	31.891	22.242	558.3	.062	1520.3	10.0
15	16.583	32.982	24.064	384.4	.086	1510.1	15.0
20	12.485	33.084	25.010	294.3	.103	1497.1	20.0
25	8.944	32.994	25.557	242.2	.116	1484.3	25.0
30	7.831	32.839	25.602	238.0	.128	1479.9	30.0
35	7.402	32.913	25.720	226.8	.140	1478.5	35.0
40	7.144	32.933	25.772	221.9	.151	1477.6	40.0
45	6.728	32.875	25.781	221.0	.162	1475.9	45.0
50	6.696	32.913	25.816	217.8	.173	1475.9	50.0
55	6.676	32.895	25.804	219.0	.184	1475.9	55.0
60	6.671	32.894	25.804	219.1	.195	1476.0	60.0
63	6.671	32.908	25.815	218.1	.201	1476.0	63.0

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
3	21.920	31.508	5.41	0.28		1.55		
7	20.630	31.795	5.05	0.24		1.76		
15	16.680	32.888	6.78	0.14		1.33		
21	16.700	32.348	6.05	0.19		1.76		
31	7.730	32.785	6.97	0.59		3.30		
38	7.220	32.873	6.65	0.70		6.12		
46	6.690	32.833	6.09	0.87		10.60		
61	6.700	32.849	6.35	0.92		11.24		



SHIP CO CRUISE 19-01 STATION 403 POSITION 40 27.17 N 72 5.15 W
 LOCAL TIME 2123 DATE 75/ 7/27 WIND = 6knots DIR = 10 DEPTH= 64M

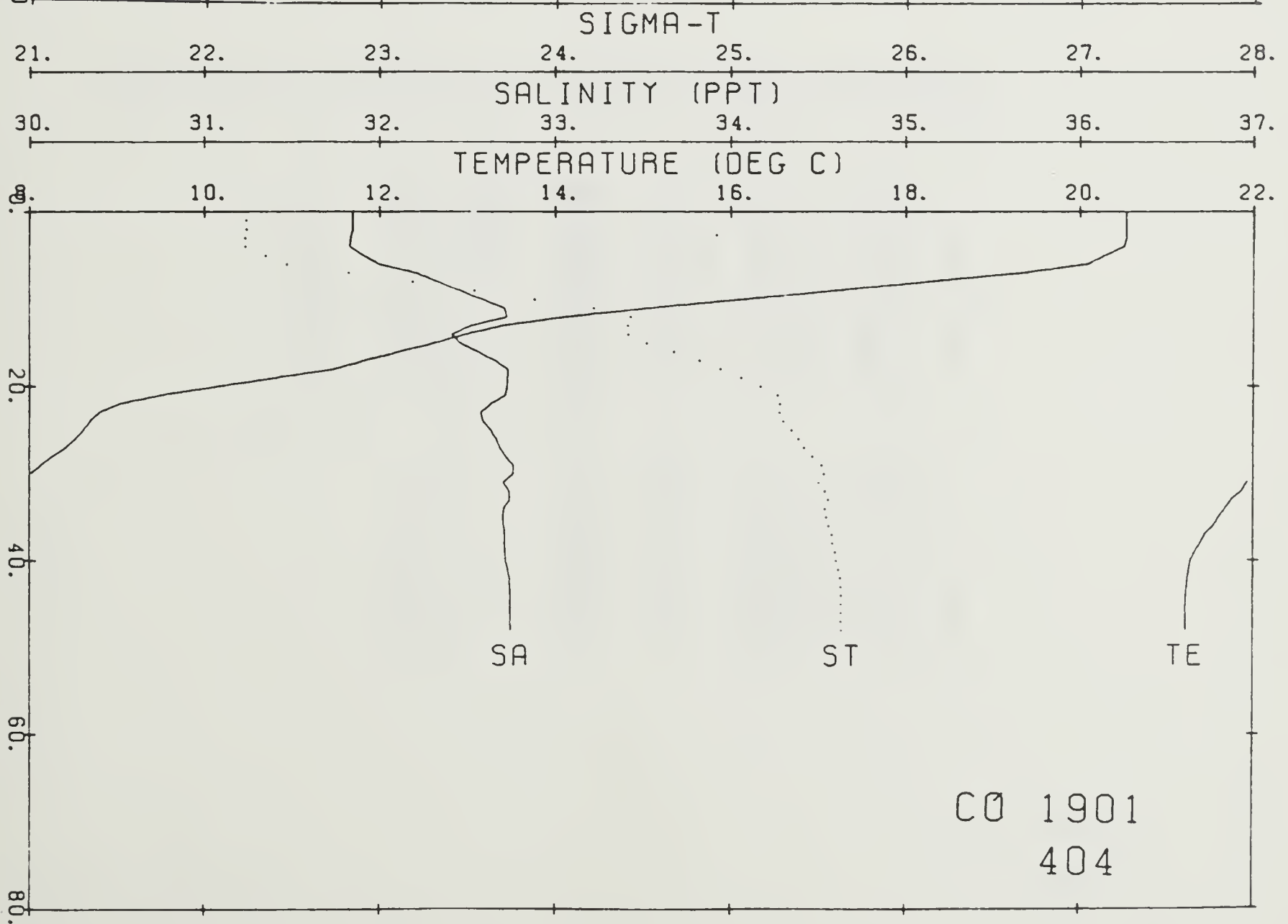
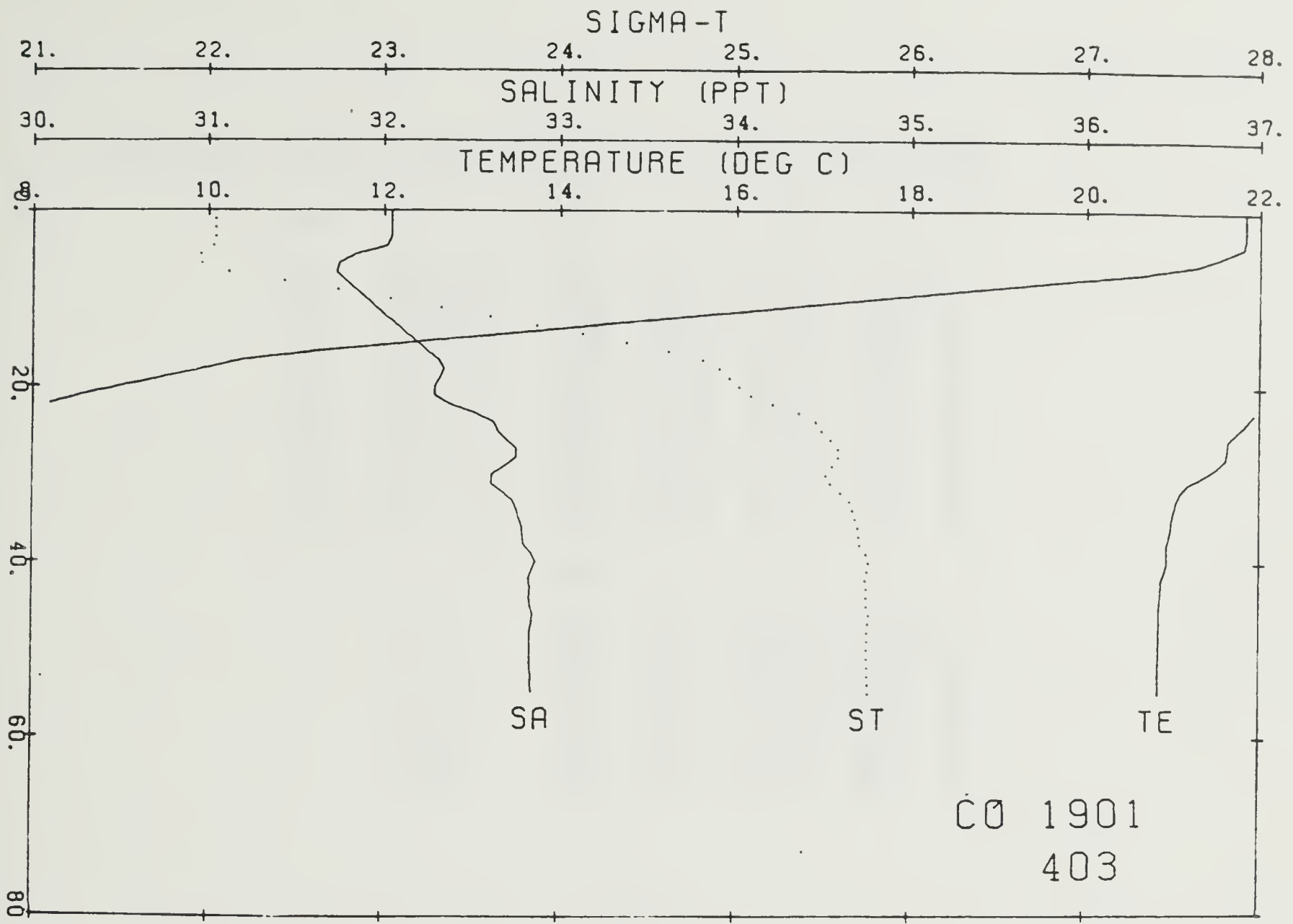
DTH	TEM	SAL	SGT	ANO	DYN	SVL	DTH
0	21.831	32.046	22.023	579.0	0.000	1523.6	0.0
5	21.567	31.835	21.935	587.6	.029	1522.8	5.0
10	17.524	31.905	23.018	484.1	.056	1511.6	10.0
15	12.295	32.197	24.358	356.2	.077	1495.2	15.0
20	9.012	32.291	24.996	295.5	.093	1483.6	20.0
25	7.740	32.650	25.466	250.8	.107	1479.3	25.0
30	7.354	32.615	25.493	248.3	.119	1477.8	30.0
35	6.987	32.770	25.664	232.0	.131	1476.6	35.0
40	6.937	32.864	25.745	224.4	.143	1476.6	40.0
45	6.849	32.836	25.735	225.5	.154	1476.3	45.0
50	6.844	32.838	25.737	225.3	.165	1476.4	50.0
55	6.841	32.848	25.745	224.6	.177	1476.5	55.0
55	6.841	32.848	25.745	224.6	.177	1476.5	55.0

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
3	21.600	31.933	5.65	0.13		1.31		
7	21.000	31.857	5.66	0.15		1.26		
14	14.550	33.336	7.30	0.20		1.63		
20	8.620	32.778	7.36	0.42		1.63		
27	7.510	32.772	6.87	0.64		3.83		
34	6.980	32.771	6.28	0.78		8.81		
40	6.890	32.773	6.15	0.78		9.44		
46	6.830	32.803	6.09	0.82		11.22		
54	6.870	32.807	6.07	0.81		11.12		

SHIP CO CRUISE 19-01 STATION 404 POSITION 40 36.48 N 72 12.05 W
 LOCAL TIME 605 DATE 75/ 7/28 WIND = knots DIR = DEPTH= 51M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	DTH
0	20.529	31.847	22.222	559.9	0.000	1519.9	0.0
5	20.290	31.908	22.331	549.7	.028	1519.4	5.0
10	16.135	32.587	23.863	403.4	.052	1508.2	10.0
15	12.625	32.459	24.498	342.9	.070	1496.7	15.0
20	10.167	32.724	25.148	281.1	.086	1488.4	20.0
25	8.604	32.632	25.325	264.2	.099	1482.6	25.0
30	8.008	32.759	25.513	246.4	.112	1480.5	30.0
35	7.603	32.701	25.526	245.3	.125	1479.0	35.0
40	7.272	32.717	25.584	239.8	.137	1477.8	40.0
45	7.213	32.743	25.613	237.1	.149	1477.7	45.0
48	7.215	32.744	25.613	237.1	.156	1477.7	48.0

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
2	21.240	31.760	5.73	0.10		0.84		
9	20.350	31.866	5.86	0.13		1.10		
17	11.430	32.487	7.29	0.34		2.31		
21	10.730	32.716	7.74	0.31		2.31		
24	8.710	32.605	6.75	0.61		6.55		
27	8.360	32.722	7.33	0.44		4.56		
31	7.840	32.720	6.94	0.59		6.40		
34	7.570	32.700	6.55	0.68		7.81		
37	7.150	32.724	6.32	0.73		8.86		
41	7.200	32.721	6.22	0.78		9.28		
47	7.260	32.729	6.23	0.79		9.28		



SHIP CD CRUISE 19-01 STATION 405 POSITION 40 20.76 N 72 17.28 W
 LOCAL TIME 609 DATE 75/ 7/28 WIND = 6knots OIR = 230 DEPTH= 55M

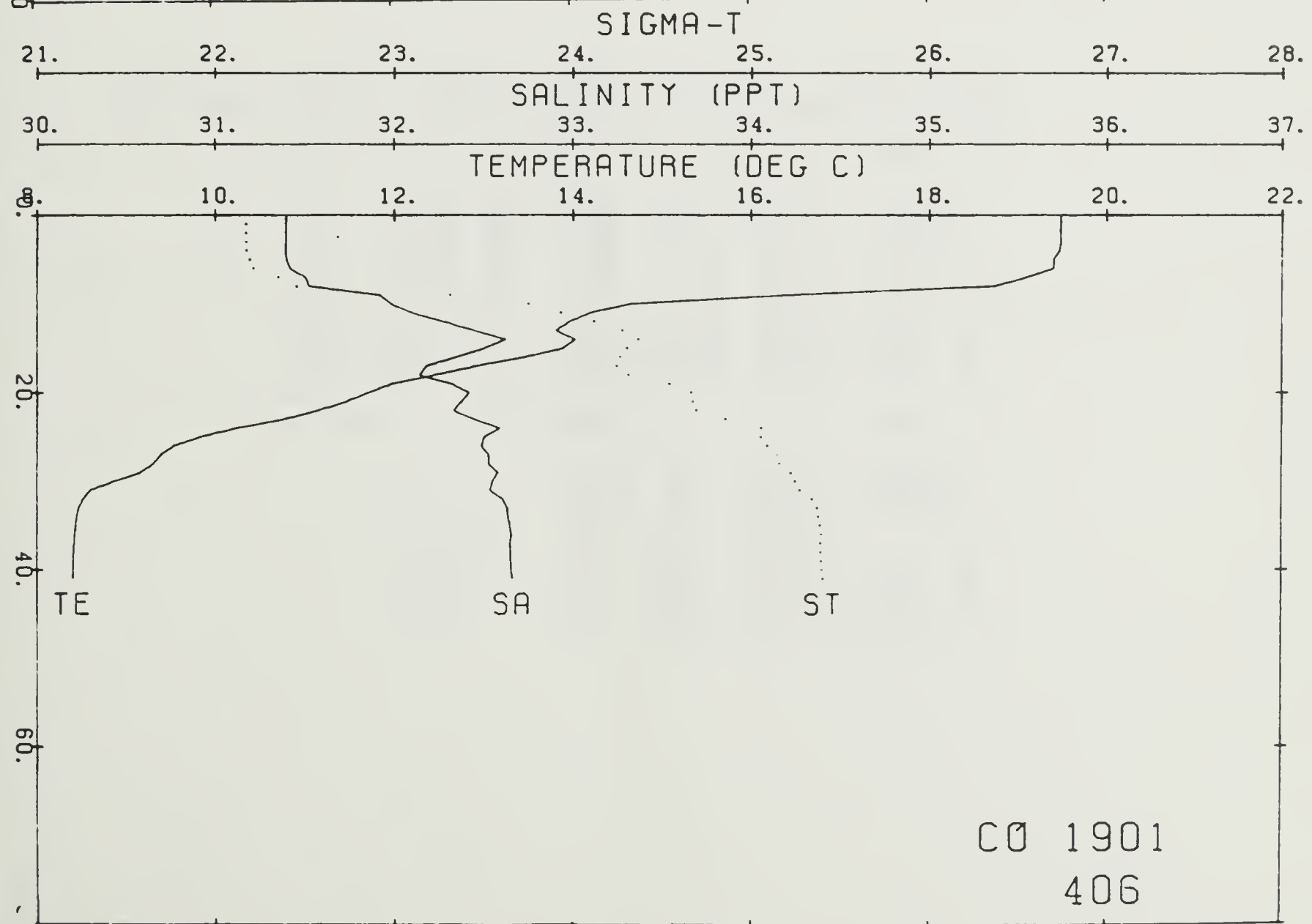
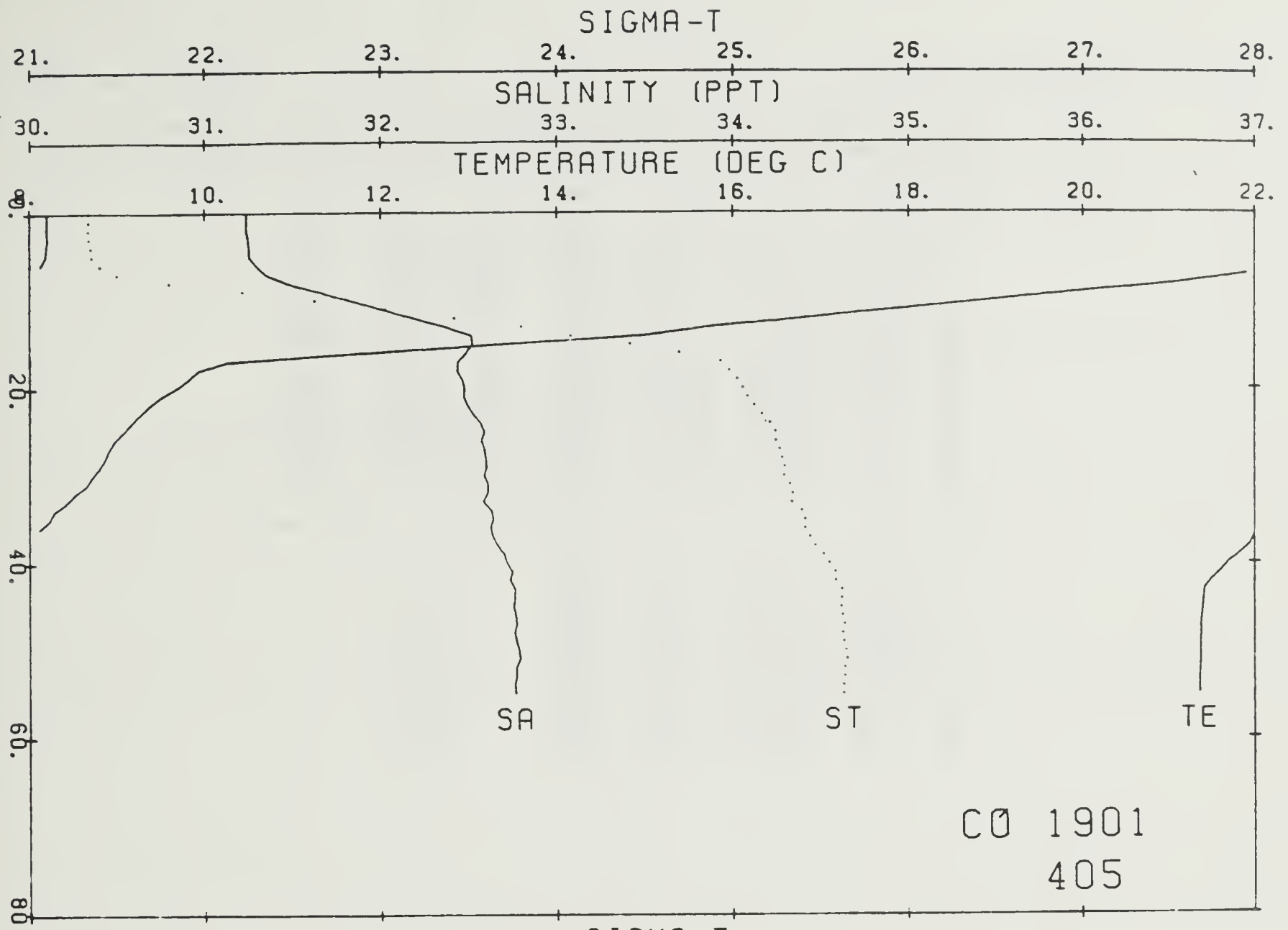
DTH	TEM	SAL	SGT	ANO	DYN	SVL	DTH
0	22.195	31.241	21.312	647.1	0.000	1523.6	0.0
5	22.174	31.258	21.331	645.4	.032	1523.7	5.0
10	19.000	31.831	22.602	523.8	.062	1515.8	10.0
15	13.390	32.517	24.393	352.9	.083	1499.3	15.0
20	9.664	32.473	25.035	291.8	.100	1486.2	20.0
25	9.053	32.585	25.220	274.3	.114	1484.2	25.0
30	8.705	32.582	25.271	269.5	.127	1483.0	30.0
35	8.212	32.635	25.386	258.6	.141	1481.2	35.0
40	7.685	32.713	25.523	245.6	.153	1479.4	40.0
45	7.384	32.750	25.595	238.8	.165	1478.3	45.0
50	7.358	32.779	25.621	236.4	.177	1478.4	50.0
55	7.349	32.759	25.606	237.8	.189	1478.4	55.0
55	7.349	32.759	25.606	237.8	.189	1478.4	55.0

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
3	22.050	31.254	5.35	0.83		1.52		
10	21.430	31.359	5.44	1.26		1.63		
15	15.010	32.494	6.81	0.90		1.73		
23	9.490	32.533	7.08	1.34		6.73		
29	9.060	32.551	6.08	2.15		9.09		
35	8.350	32.611	6.20	2.23		9.30		
43	7.390	32.719	6.11	2.18		10.98		
49	7.340	32.715	6.08	0.90		10.93		
53	7.350	32.734	6.04	0.79		11.61		

SHIP CD CRUISE 19-01 STATION 406 POSITION 40 30.30 N 72 37.85 W
 LOCAL TIME 1257 DATE 75/ 7/28 WIND = 13knots DIR = 210 DEPTH= 46M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	DTH
0	19.477	31.397	22.151	566.7	0.000	1516.5	0.0
5	19.399	31.400	22.173	564.7	.028	1516.3	5.0
10	14.648	31.986	23.725	416.5	.053	1502.7	10.0
15	13.884	32.502	24.282	363.6	.072	1501.0	15.0
20	11.699	32.418	24.640	329.4	.090	1493.5	20.0
25	9.829	32.500	25.029	292.5	.105	1487.0	25.0
30	8.849	32.547	25.221	274.2	.119	1483.5	30.0
35	8.425	32.647	25.364	260.7	.133	1482.1	35.0
40	8.394	32.654	25.374	259.8	.146	1482.0	40.0
41	8.393	32.660	25.379	259.4	.148	1482.1	41.0

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
3	19.540	31.374	5.99	0.16		0.47		
7	18.940	31.411	6.00	0.18		0.37		
15	13.360	32.635	7.03	0.24		0.95		
15	13.760	32.628	7.10	0.28		1.21		
21	11.310	32.534	7.13	0.29		1.84		
24	9.470	32.569	6.92	0.55		5.20		
29	9.080	32.624	6.44	0.67		7.15		
36	8.380	32.625	6.16	1.01		10.51		
40	8.380	32.585	6.17	1.08		10.72		



SHIP CO CRUISE 19-01 STATION 407 POSITION 40 15.05 N 72 44.76 W
 LOCAL TIME 1704 DATE 75/ 7/28 WIND = 17knots DIR = 210 DEPTH= 57M

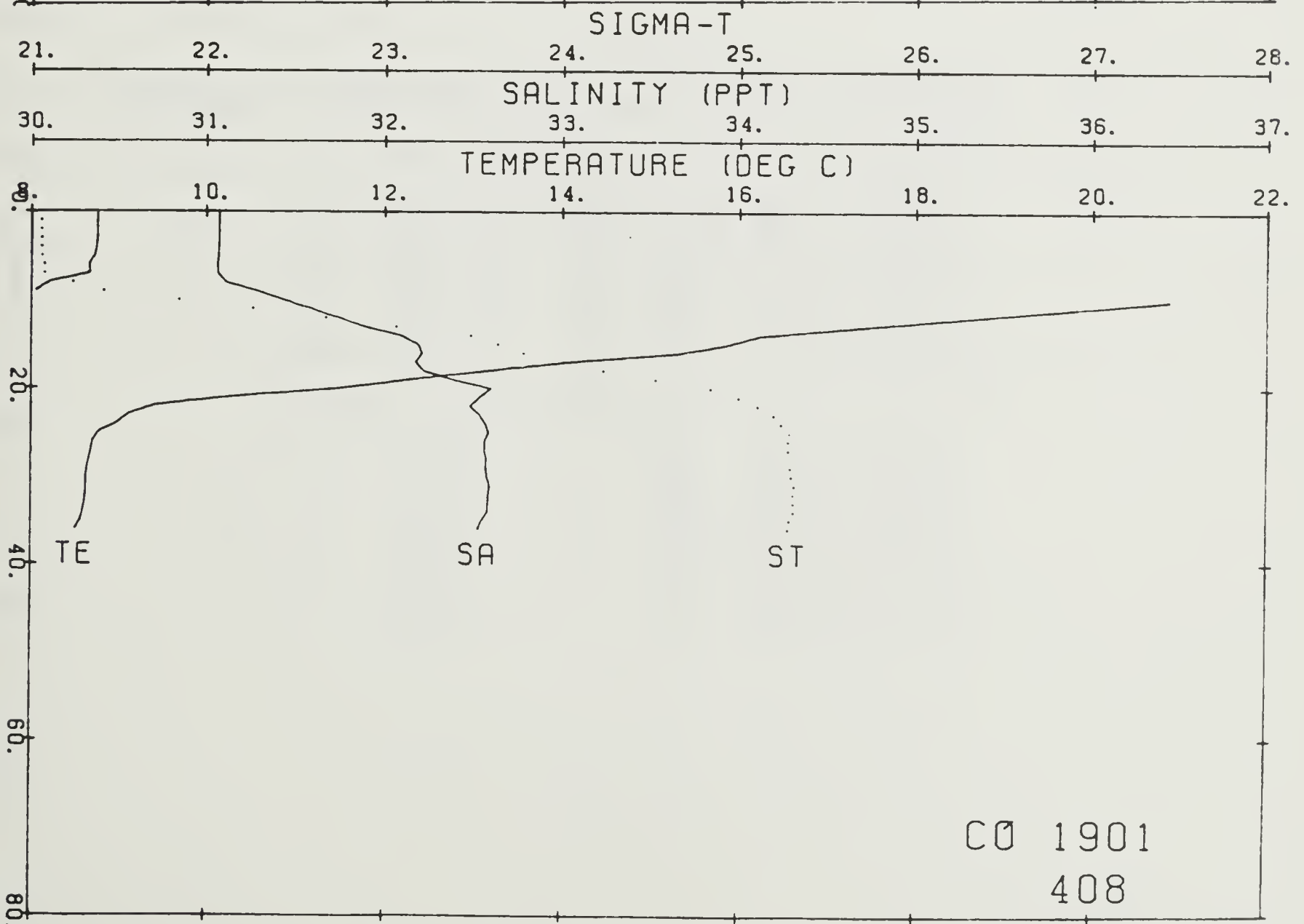
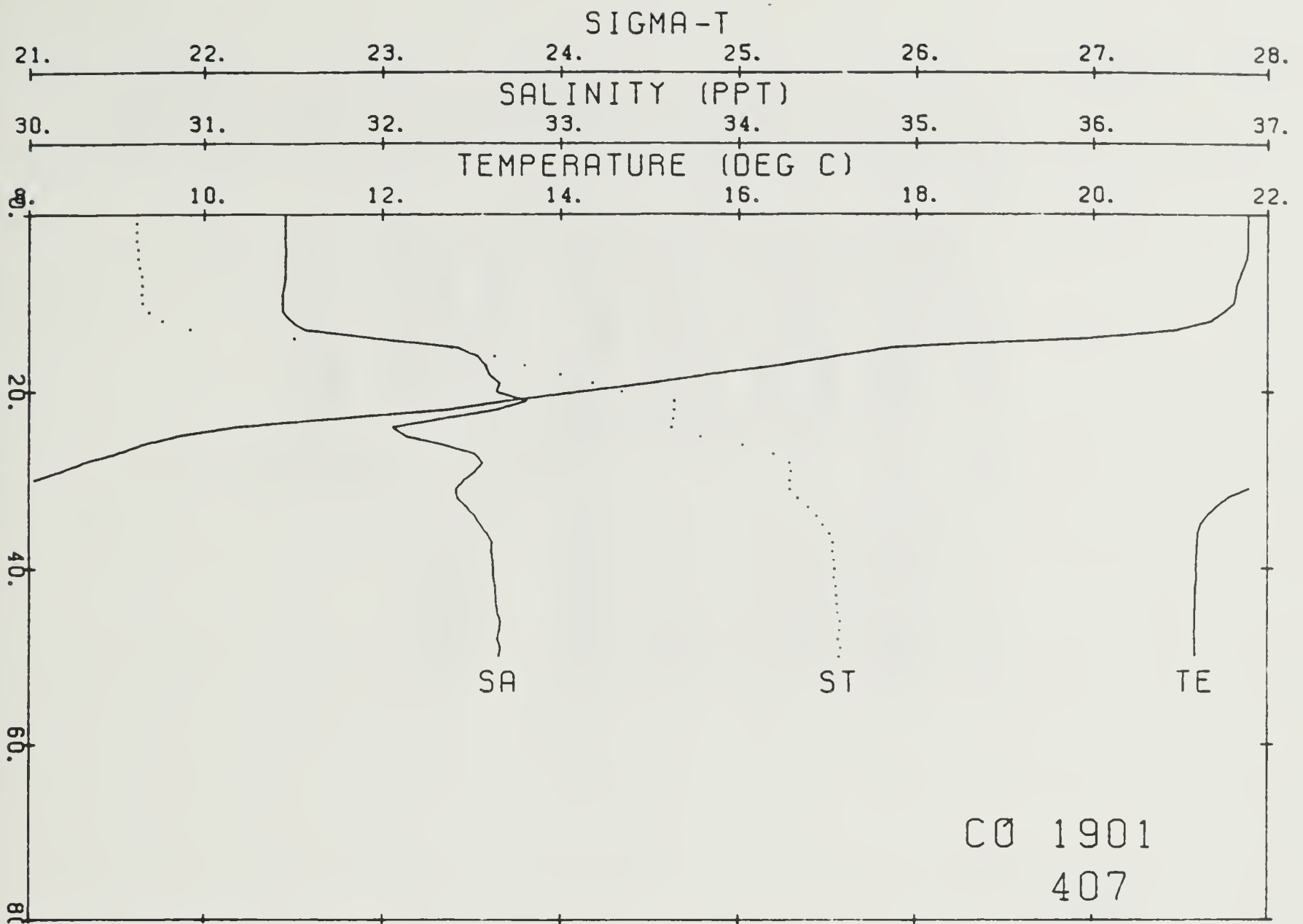
DTH	TEM	SAL	SGT	AND	DYN	SVL	DTH
0	21.772	31.454	21.590	620.4	0.000	1522.8	0.0
5	21.756	31.456	21.596	620.0	.031	1522.8	5.0
10	21.604	31.439	21.624	617.5	.062	1522.5	10.0
15	17.736	32.421	23.363	451.3	.089	1512.9	15.0
20	14.203	32.637	24.320	360.0	.109	1502.2	20.0
25	9.701	32.132	24.763	317.8	.126	1486.0	25.0
30	8.050	32.452	25.266	269.9	.141	1480.3	30.0
35	7.229	32.544	25.454	252.1	.154	1477.3	35.0
40	7.176	32.620	25.521	245.8	.166	1477.3	40.0
45	7.161	32.644	25.542	243.8	.178	1477.3	45.0
50	7.162	32.651	25.547	243.4	.191	1477.4	50.0
50	7.162	32.651	25.547	243.4	.191	1477.4	50.0

DTH	TEM	SAL	DXG	PHOS	NITR	SIL	NO2	AMM
3	21.770	31.520	5.51	0.28		1.95		
7	21.730	31.518	5.31	0.30		1.84		
13	21.080	31.505	5.52	0.30		1.84		
18	16.070	32.569	6.29	0.22		1.52		
23	13.780	32.839	6.82	0.28		2.22		
29	9.150	32.789	6.94	0.37		4.27		
38	7.130	32.619	5.49	0.78		10.82		
43	7.140	32.620	5.49	0.75		11.04		
48	7.170	32.613	5.52	0.80		10.93		

SHIP CO CRUISE 19-01 STATION 408 POSITION 40 23.45 N 73 2.81 W
 LOCAL TIME 2203 DATE 75/ 7/28 WIND = 16knots DIR =210 DEPTH= 40M

DTH	TEM	SAL	SGT	AND	DYN	SVL	DTH
0	22.747	31.073	21.031	674.0	0.000	1524.9	0.0
5	22.719	31.067	21.034	673.8	.034	1524.9	5.0
10	20.874	31.440	21.821	598.6	.066	1520.5	10.0
15	15.872	32.189	23.616	427.1	.091	1506.9	15.0
20	11.519	32.601	24.815	312.8	.110	1493.1	20.0
25	8.765	32.585	25.264	270.1	.124	1483.1	25.0
30	8.622	32.578	25.280	268.6	.138	1482.6	30.0
35	8.561	32.548	25.266	270.0	.151	1482.4	35.0
36	8.501	32.524	25.256	271.0	.154	1482.2	36.0

DTH	TEM	SAL	DXG	PHOS	NITR	SIL	NO2	AMM
2	22.910	31.016	5.39	0.22		1.41		
6	22.880	31.026	5.34	0.24		1.41		
9	22.320	31.116	5.47	0.27		1.73		
13		31.664	6.01	0.39		2.76		
21		32.435	6.35	0.42		3.03		
23	9.040	32.596	5.79	0.68		9.52		
28	8.550	32.553	5.36	0.79		11.42		
34	8.410	32.561	5.37	0.80		11.42		



SHIP CO CRUISE 19-01 STATION 409 POSITION 40 8.28 N 73 10.44 W
 LOCAL TIME 141 DATE 75/ 7/29 WIND = 16knots DIR = 210 DEPTH= 46M

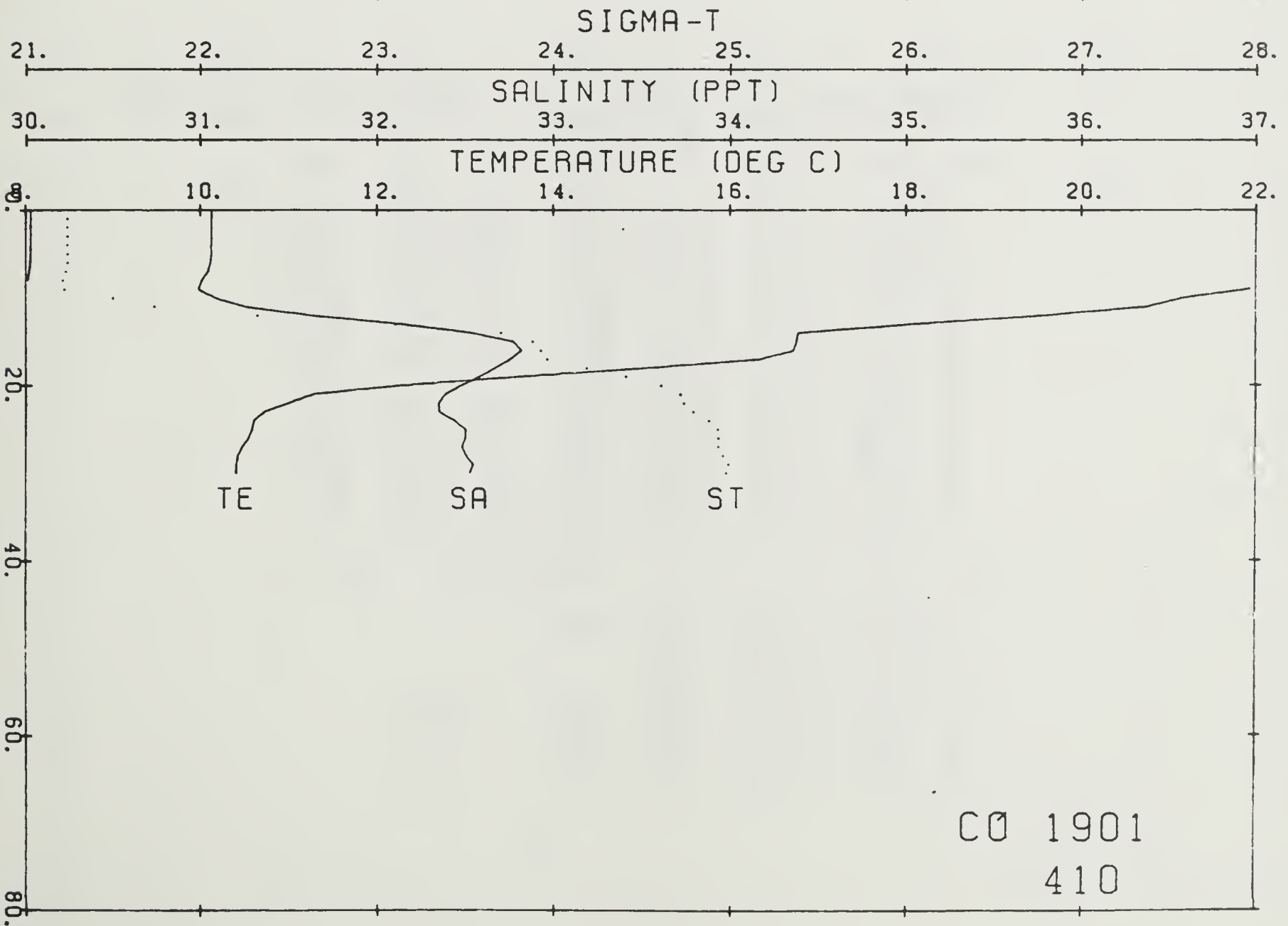
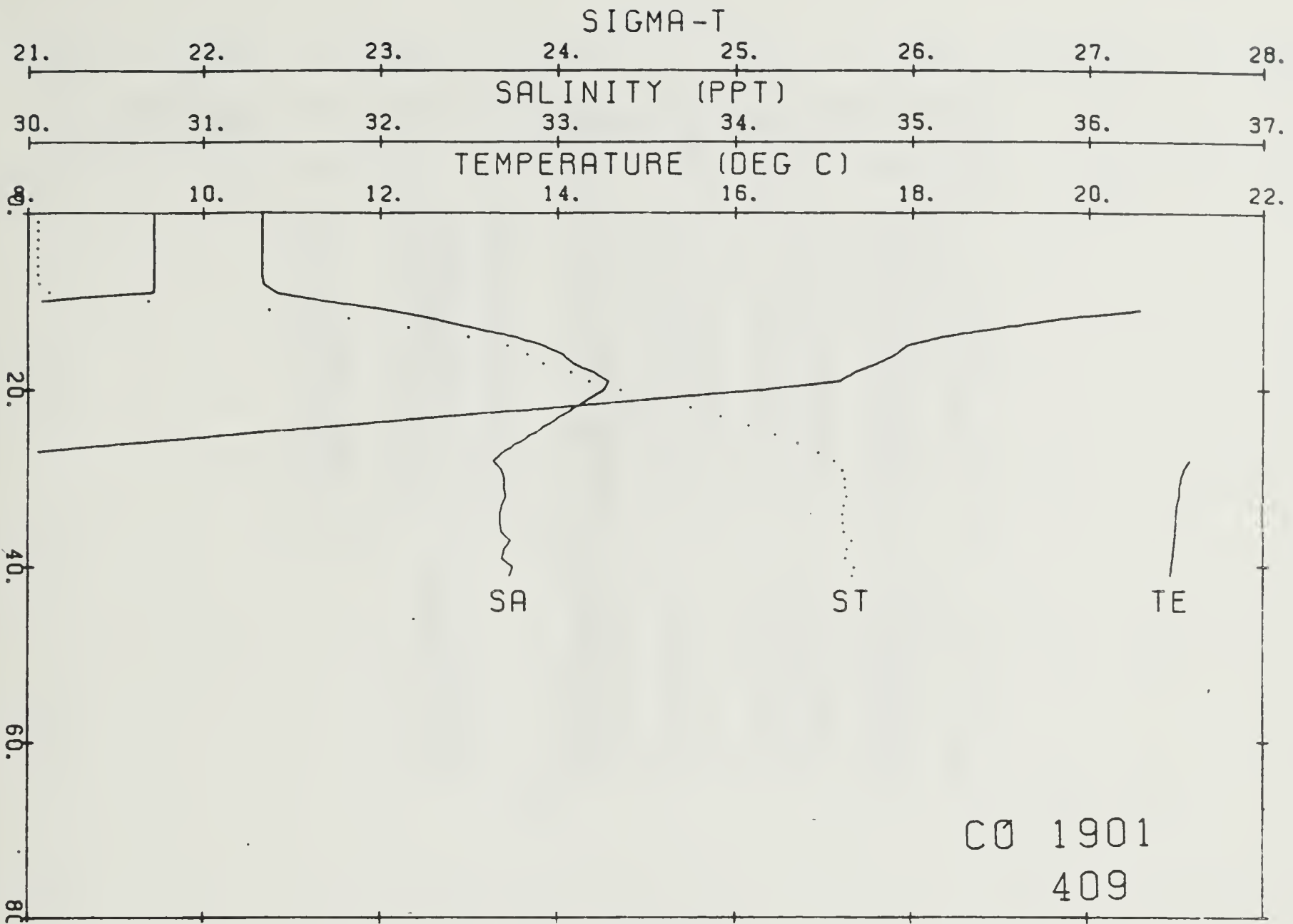
DTH	TEM	SAL	SGT	ANO	DYN	SVL	DTH
0	23.435	31.334	21.033	673.8	0.000	1526.9	0.0
5	23.440	31.335	21.033	674.0	.034	1527.0	5.0
10	22.153	31.691	21.665	613.6	.066	1524.2	10.0
15	17.936	32.923	23.699	419.3	.092	1514.1	15.0
20	16.303	33.257	24.339	358.3	.111	1509.7	20.0
25	10.451	32.856	25.202	276.0	.127	1489.7	25.0
30	7.066	32.702	25.600	238.1	.140	1476.8	30.0
35	7.006	32.678	25.589	239.2	.152	1476.6	35.0
40	6.955	32.749	25.652	233.3	.164	1476.6	40.0
41	6.943	32.731	25.640	234.5	.166	1476.5	41.0

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
6	23.340	31.324	5.20	1.61		0.90		
10	21.670	31.456	5.33	2.98		0.90		
17	17.600	33.187	6.42	0.68		1.42		
22	15.910	33.269	6.55	2.34		9.90		
28	6.940	32.682	5.51	0.80		10.06		
33	6.890	32.679	5.52	0.76		10.22		
36	6.920	32.657	5.46	0.71		16.17		
39	7.020	32.684	5.49	0.74		9.80		

SHIP CO CRUISE 19-01 STATION 410 POSITION 40 16.31 N 73 29.70 W
 LOCAL TIME 611 DATE 75/ 7/29 WIND = knots DIR = DEPTH= 33M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	DTH
0	22.056	31.065	21.217	656.2	0.000	1523.1	0.0
5	22.051	31.066	21.219	656.1	.033	1523.1	5.0
10	21.168	31.091	21.477	631.5	.065	1520.9	10.0
15	16.750	32.774	23.866	403.3	.091	1510.4	15.0
20	12.272	32.485	24.586	334.6	.109	1495.6	20.0
25	10.583	32.508	24.909	304.0	.125	1489.7	25.0
30	10.403	32.530	24.957	299.5	.140	1489.2	30.0
30	10.403	32.530	24.957	299.5	.140	1489.2	30.0

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
2	22.060	31.064	5.72			0.11		
4	22.020	31.066	5.69			0.11		
7	21.810	30.991	5.80			0.16		
12	18.090	32.158	6.02			0.95		
15	16.380	32.764	6.49			0.95		
19	16.230	33.019	6.47			1.47		
23	10.740	32.535	5.14			7.64		
25	10.440	32.499	5.13			2.64		
28	10.370	32.495	5.14			7.58		



SHIP CO CRUISE 19-01 STATION 411 POSITION 40 3.96 N 73 28.55 W
 LOCAL TIME 910 DATE 75/ 7/29 WIND = knots DIR = DEPTH= 71M

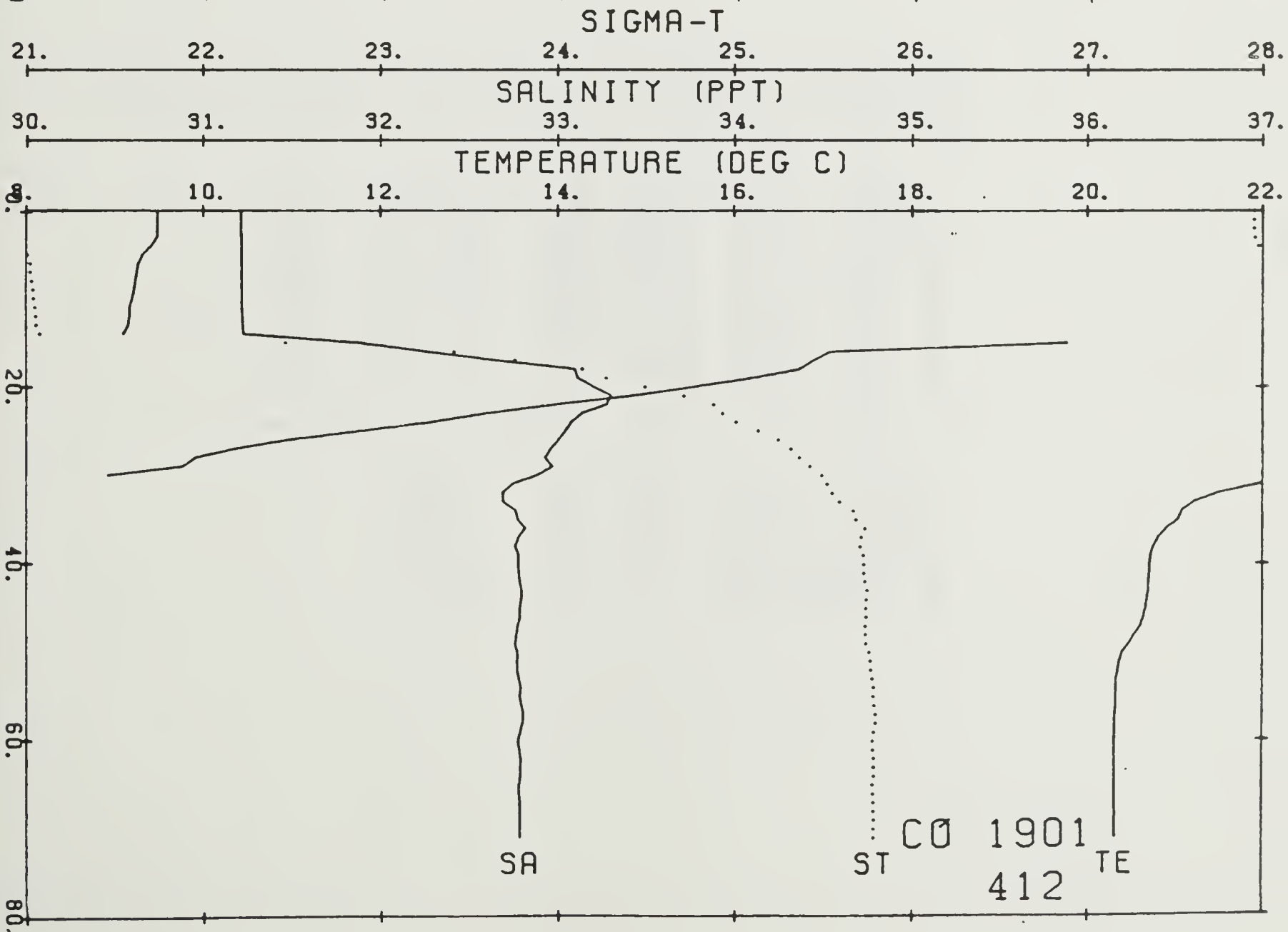
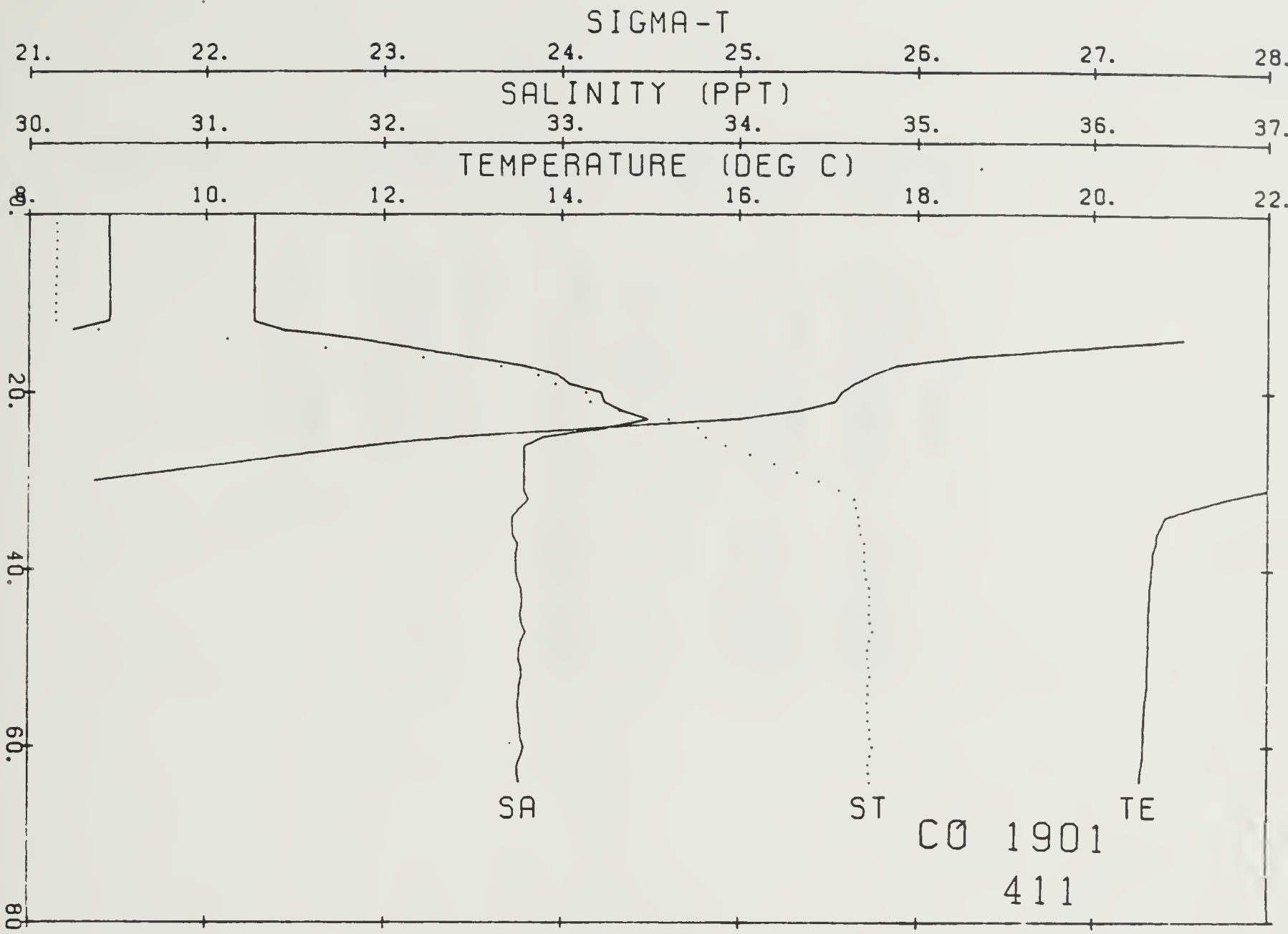
DTH	TEM	SAL	SGT	ANO	DYN	SVL	DTH
0	22.905	31.270	21.136	664.0	0.000	1525.5	0.0
5	22.913	31.271	21.134	664.3	.033	1525.6	5.0
10	22.919	31.271	21.133	664.6	.066	1525.7	10.0
15	19.826	32.167	22.649	519.6	.096	1518.6	15.0
20	17.143	33.226	24.120	379.2	.119	1512.2	20.0
25	12.831	32.893	24.795	314.9	.136	1498.1	25.0
30	8.740	32.790	25.429	254.5	.150	1483.4	30.0
35	6.780	32.724	25.656	232.9	.162	1475.8	35.0
40	6.671	32.748	25.689	229.8	.174	1475.4	40.0
45	6.637	32.770	25.711	227.7	.185	1475.4	45.0
50	6.631	32.760	25.703	228.5	.197	1475.5	50.0
55	6.602	32.757	25.705	228.4	.208	1475.4	55.0
60	6.580	32.791	25.734	225.7	.219	1475.5	60.0
65	6.541	32.766	25.720	227.1	.229	1475.3	64.0

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
3	23.460	31.207	5.48	0.09		0.05		
12	23.130	31.212	5.51	0.09		0.05		
23	14.910	33.404	7.00	0.18		1.37		
35	8.230	32.814	7.65	0.34		2.73		
37	6.700	32.778	5.95	0.69		8.41		
44	6.590	32.795	6.01	0.71		8.52		
52	6.300	32.779	5.69	0.86		10.19		
60	6.310	32.768	5.64	0.81		10.46		
69	6.330	32.776	5.63	0.82		10.83		

SHIP CO CRUISE 19-01 STATION 412 POSITION 39 55.80 N 73 12.65 W
 LOCAL TIME 1427 DATE 75/ 7/29 WIND = knots DIR = DEPTH= 80M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	DTH
0	23.481	31.213	20.929	683.8	0.000	1526.9	0.0
5	23.304	31.214	20.980	679.1	.034	1526.5	5.0
10	23.184	31.218	21.017	675.7	.068	1526.3	10.0
15	19.757	31.873	22.442	539.3	.098	1518.0	15.0
20	15.507	33.203	24.477	345.2	.120	1507.1	20.0
25	11.741	33.041	25.117	284.2	.136	1494.5	25.0
30	8.914	32.881	25.473	250.3	.150	1484.1	30.0
35	7.034	32.776	25.663	232.2	.162	1476.8	35.0
40	6.715	32.777	25.706	228.1	.173	1475.7	40.0
45	6.663	32.786	25.720	226.9	.184	1475.5	45.0
50	6.401	32.771	25.742	224.8	.196	1474.6	50.0
55	6.325	32.786	25.763	222.8	.207	1474.4	55.0
60	6.308	32.776	25.757	223.4	.218	1474.4	60.0
65	6.313	32.780	25.760	223.3	.229	1474.5	65.0
70	6.314	32.784	25.763	223.0	.240	1474.5	70.0
71	6.313	32.784	25.763	223.0	.243	1474.6	71.0

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
3	22.880	31.256	5.44	0.35				
10	22.890	31.257	5.46	0.79				
19	17.440	32.904	6.27					
26	11.310	33.026	7.04					
34	6.690	32.744	5.88	1.59		8.52		
41	6.620	32.731	5.73	0.80		9.69		
47	6.610	32.731	5.73	0.09				
55	6.580	32.746	5.78	0.15		0.21		
62	6.530	32.755	5.71	0.14		1.05		



SHIP CO CRUISE 19-01 STATION 413 POSITION 39 42.11 N 73 26.75 W
 LOCAL TIME 1733 DATE 75/ 7/29 WIND = 8knots DIR = 10 DEPTH= 38M

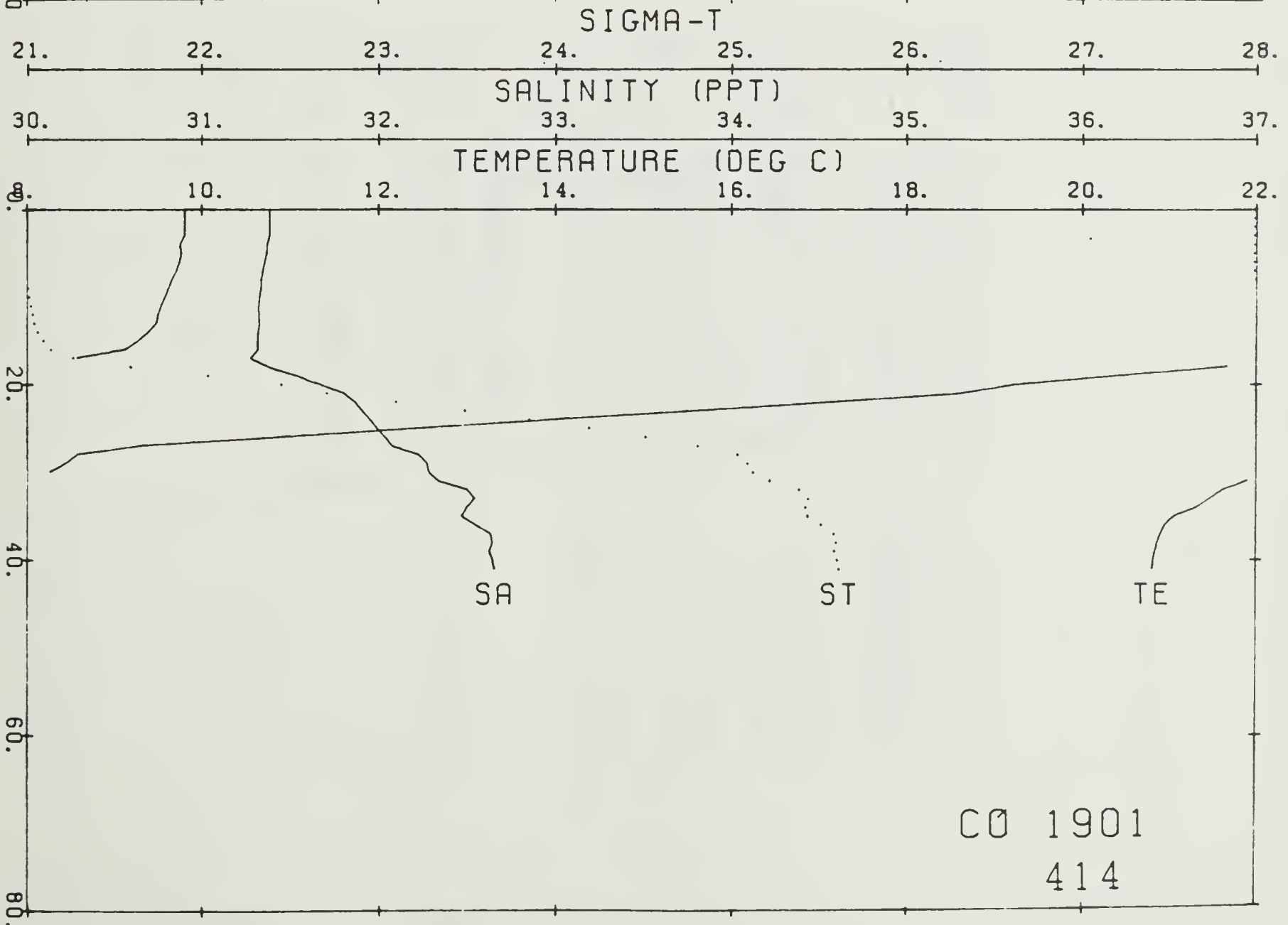
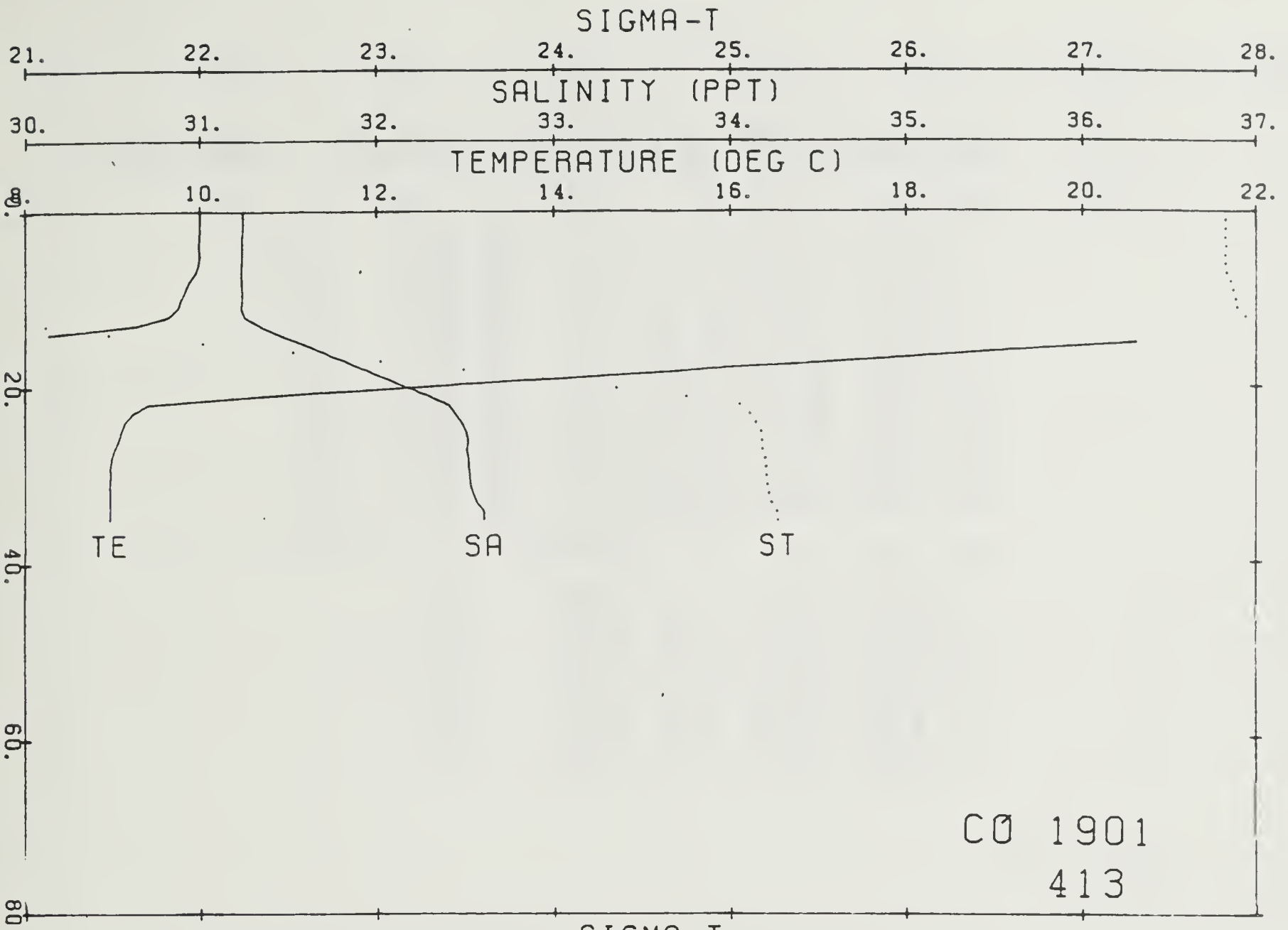
DTH	TEM	SAL	SGT	ANO	DYN	SVL	DTH
0	23.995	31.245	20.805	695.7	0.000	1528.2	0.0
5	23.995	31.240	20.801	696.3	.035	1528.3	5.0
10	23.775	31.239	20.864	690.4	.069	1527.8	10.0
15	20.610	31.572	21.991	582.5	.101	1520.0	15.0
20	12.376	32.183	24.332	358.8	.125	1495.6	20.0
25	9.086	32.504	25.151	280.8	.141	1484.2	25.0
30	8.964	32.526	25.187	277.4	.155	1483.9	30.0
35	8.952	32.605	25.251	271.5	.168	1484.0	35.0
35	8.952	32.605	25.251	271.5	.168	1484.0	35.0

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
2	23.980	31.256	5.10	0.06				
7	23.850	31.255	5.07	0.06		0.05		
12	23.470	31.269	5.19	0.07		0.05		
19	9.730	32.537	5.11	0.51		4.05		
23	9.040	32.568	5.39	0.67		4.83		
28	8.920	32.563	5.34	0.69		4.94		
32	8.960	32.557	5.36	0.65		4.99		

SHIP CO CRUISE 19-01 STATION 414 POSITION 39 38.16 N 73 9.06 W
 LOCAL TIME 2140 DATE 75/ 7/29 WIND = 11knots DIR = 360 DEPTH= 44M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	DTH
0	23.799	31.383	20.966	680.3	0.000	1527.9	0.0
5	23.759	31.366	20.965	680.6	.034	1527.8	5.0
10	23.570	31.325	20.988	678.5	.068	1527.4	10.0
15	23.259	31.314	21.069	670.9	.102	1526.7	15.0
20	19.203	31.669	22.428	540.8	.132	1516.3	20.0
25	12.449	31.992	24.170	374.4	.155	1495.6	25.0
30	8.250	32.282	25.104	285.3	.171	1480.8	30.0
35	7.052	32.465	25.416	255.7	.185	1476.5	35.0
40	6.811	32.643	25.588	239.4	.197	1475.9	40.0
41	6.798	32.652	25.596	238.5	.200	1475.8	41.0

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
0	23.790	31.364	5.28	0.06		0.11		
5	23.770	31.351	5.20	0.07		0.11		
9	23.570	31.328	5.28	0.09		0.05		
13	23.280	31.317	5.29	0.14		0.16		
16	22.180	31.366	5.53	0.15		0.44		
29	7.380	32.493	5.14	0.84		6.77		
37	6.780	32.651						



SHIP CO CRUISE 19-01 STATION 415 POSITION 39 30.17 N 72 55.31 W
 LOCAL TIME 31 DATE 75/ 7/30 WIND = knots DIR = DEPTH= 64M

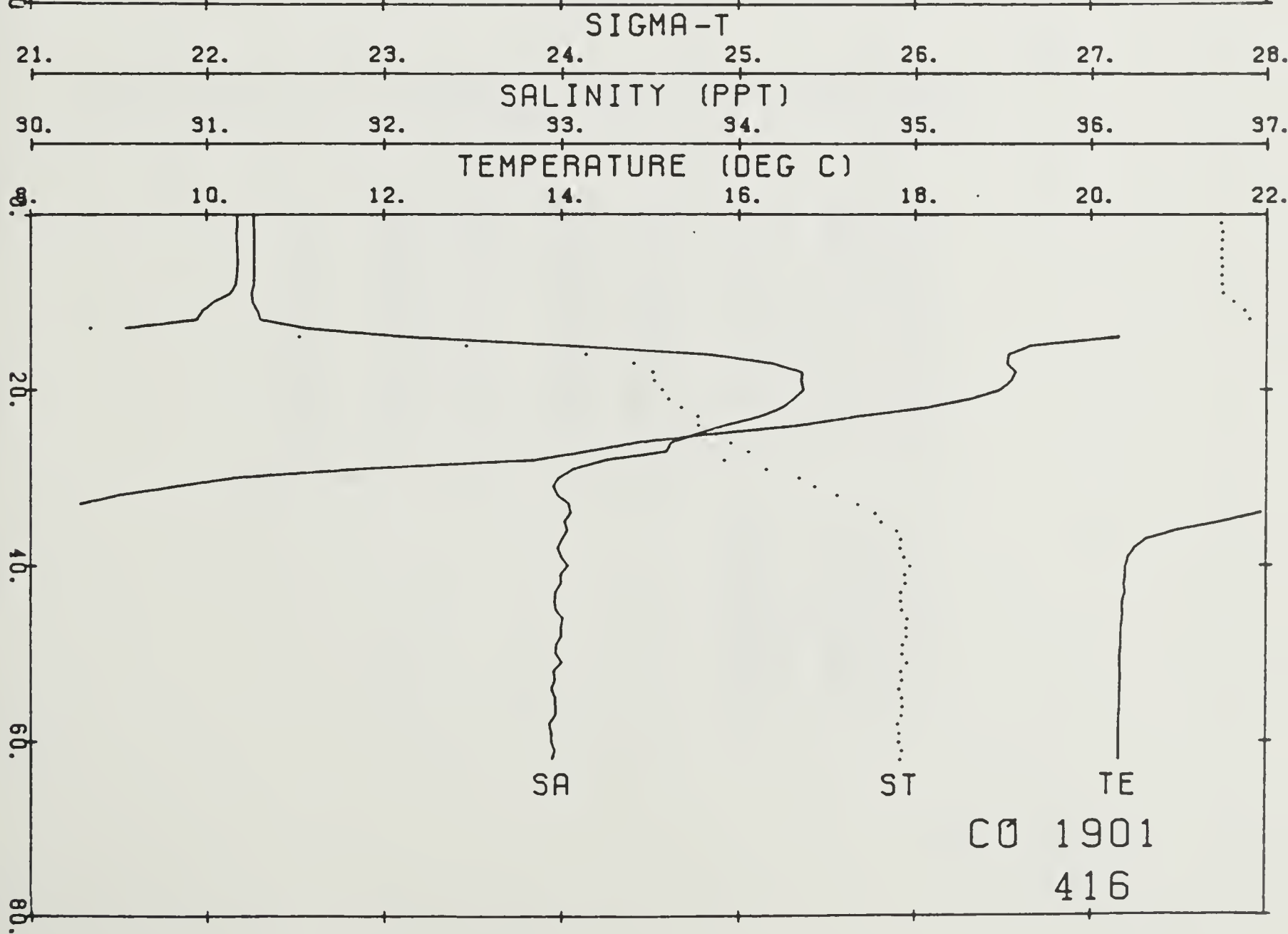
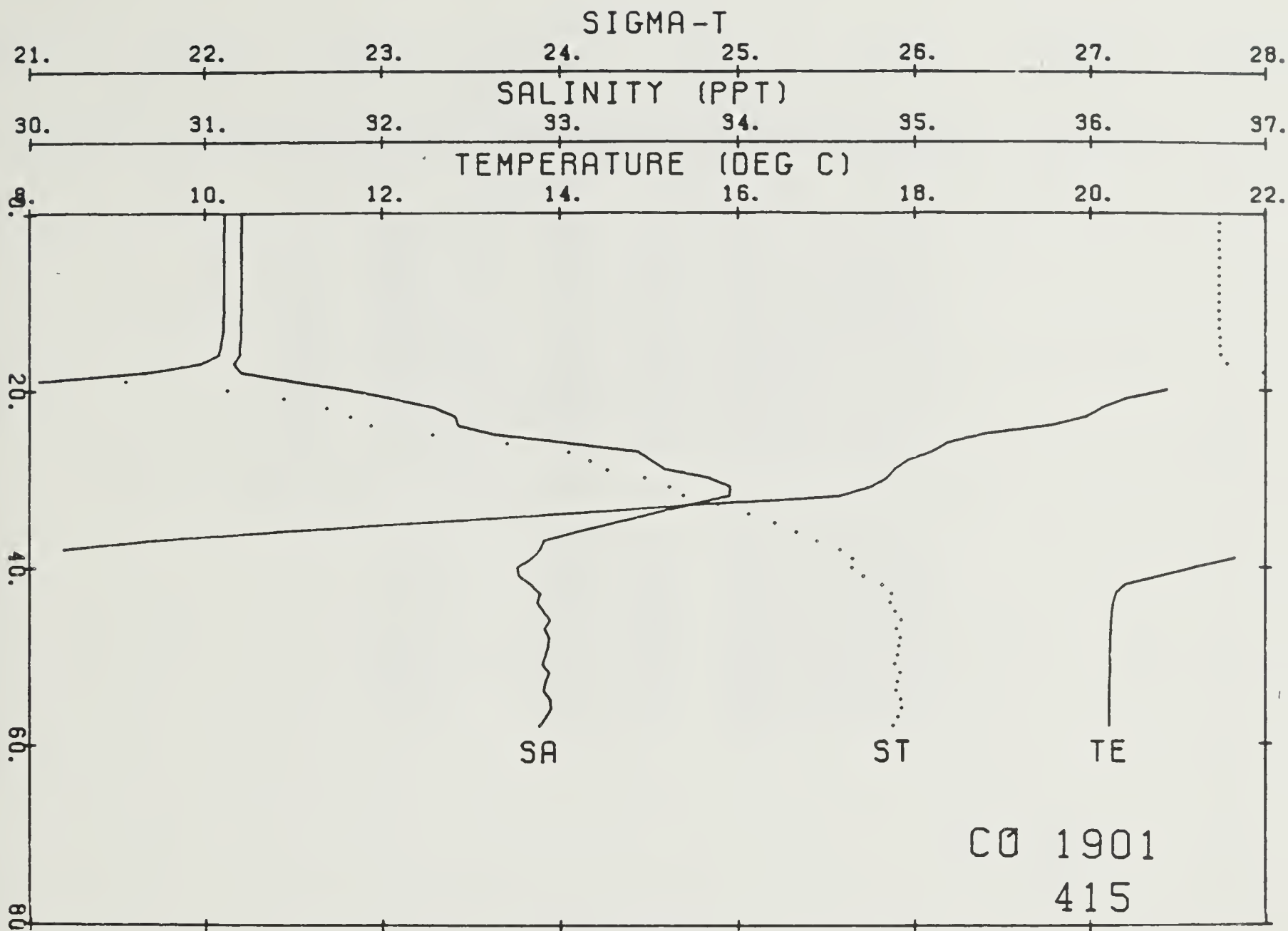
DTH	TEM	SAL	SGT	ANO	DYN	SVL	DTH
0	24.223	31.209	20.711	704.7	0.000	1528.7	0.0
5	24.222	31.209	20.711	704.9	.035	1528.8	5.0
10	24.217	31.209	20.712	704.9	.070	1528.9	10.0
15	24.178	31.200	20.717	704.6	.106	1528.9	15.0
20	20.871	31.812	22.105	571.8	.138	1521.1	20.0
25	18.794	32.632	23.265	461.0	.163	1516.4	25.0
30	17.688	33.839	24.460	347.1	.184	1514.7	30.0
35	12.458	33.309	25.189	277.6	.199	1497.5	35.0
40	7.201	32.760	25.628	235.6	.212	1477.6	40.0
45	6.251	32.911	25.871	212.5	.223	1474.1	45.0
50	6.225	32.919	25.881	211.6	.234	1474.0	50.0
55	6.216	32.948	25.905	209.4	.244	1474.1	55.0
58	6.217	32.886	25.856	214.1	.251	1474.1	58.0

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
1	24.180	31.201	5.12	0.09		0.87		
8	24.180	31.203	4.91	0.07		0.82		
13	22.600	31.271	4.35	0.09		0.82		
20	20.660	32.202	5.74	0.12		0.87		
27	18.470	33.447	6.35	0.14		1.69		
36	7.400	32.868	6.26	0.77		4.20		
43	6.160	32.859	5.86	0.77		8.68		
49	6.200	32.850	5.88	0.77		8.73		
56	6.250	32.857	5.91	0.77		8.51		

SHIP CO CRUISE 19-01 STATION 416 POSITION 39 23.22 N 73 8.82 W
 LOCAL TIME 539 DATE 75/ 7/30 WIND = knots DIR = DEPTH= 66M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	DTH
0	24.347	31.263	20.715	704.3	0.000	1529.1	0.0
5	24.348	31.265	20.716	704.4	.035	1529.2	5.0
10	24.076	31.257	20.790	697.5	.070	1528.6	10.0
15	19.298	33.030	23.442	443.8	.099	1518.1	15.0
20	18.960	34.365	24.547	338.6	.118	1518.8	20.0
25	15.714	33.753	24.854	309.4	.135	1508.5	25.0
30	10.327	32.980	25.320	264.9	.149	1489.5	30.0
35	7.511	33.014	25.785	220.7	.161	1479.0	35.0
40	6.396	33.035	25.951	204.9	.172	1474.7	40.0
45	6.360	32.965	25.900	209.7	.182	1474.6	45.0
50	6.332	32.962	25.901	209.7	.193	1474.5	50.0
55	6.323	32.963	25.903	209.6	.203	1474.6	55.0
60	6.316	32.939	25.885	211.3	.214	1474.6	60.0
62	6.313	32.946	25.891	210.8	.218	1474.6	62.0

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
2	24.300	31.231	5.19	0.04		0.42		
12	23.880	31.277	5.23	0.04		0.74		
14	21.750	31.813	5.54	0.09		1.16		
16	18.860	32.329	6.10	0.10		1.16		
18	19.040	33.952	5.91	0.04		1.21		
20	19.050	34.318	6.09	0.04		1.31		
22	18.760	34.333	6.14	0.06		1.37		
23	18.140	34.284	6.21	0.07		0.95		
28	12.490	33.778	6.78	0.19		1.94		
38	6.420	32.902	6.16	0.70		7.67		
51	6.310	32.879	6.03	0.79		8.56		
60	6.340	32.878	6.02	0.77		8.30		



SHIP CD CRUISE 19-01 STATION 417 POSITION 39 16.92 N 73 27.77 W
 LDCAL TIME 831 DATE 75/ 7/30 WIND = 5knots DIR = 360 DEPTH= 51M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	DTH
0	24.374	31.219	20.674	708.3	0.000	1529.1	0.0
5	24.375	31.219	20.674	708.5	.035	1529.2	5.0
10	24.371	31.220	20.676	708.5	.071	1529.3	10.0
15	22.590	31.561	21.445	634.8	.104	1525.3	15.0
20	15.678	32.900	24.206	371.0	.130	1507.3	20.0
25	11.033	32.845	25.092	286.5	.146	1491.8	25.0
30	7.191	32.720	25.597	238.3	.159	1477.3	30.0
35	7.081	32.816	25.688	229.8	.171	1477.1	35.0
40	7.068	32.849	25.716	227.2	.182	1477.1	40.0
45	7.056	32.917	25.771	222.1	.193	1477.3	45.0
48	7.047	32.858	25.726	226.4	.200	1477.2	48.0

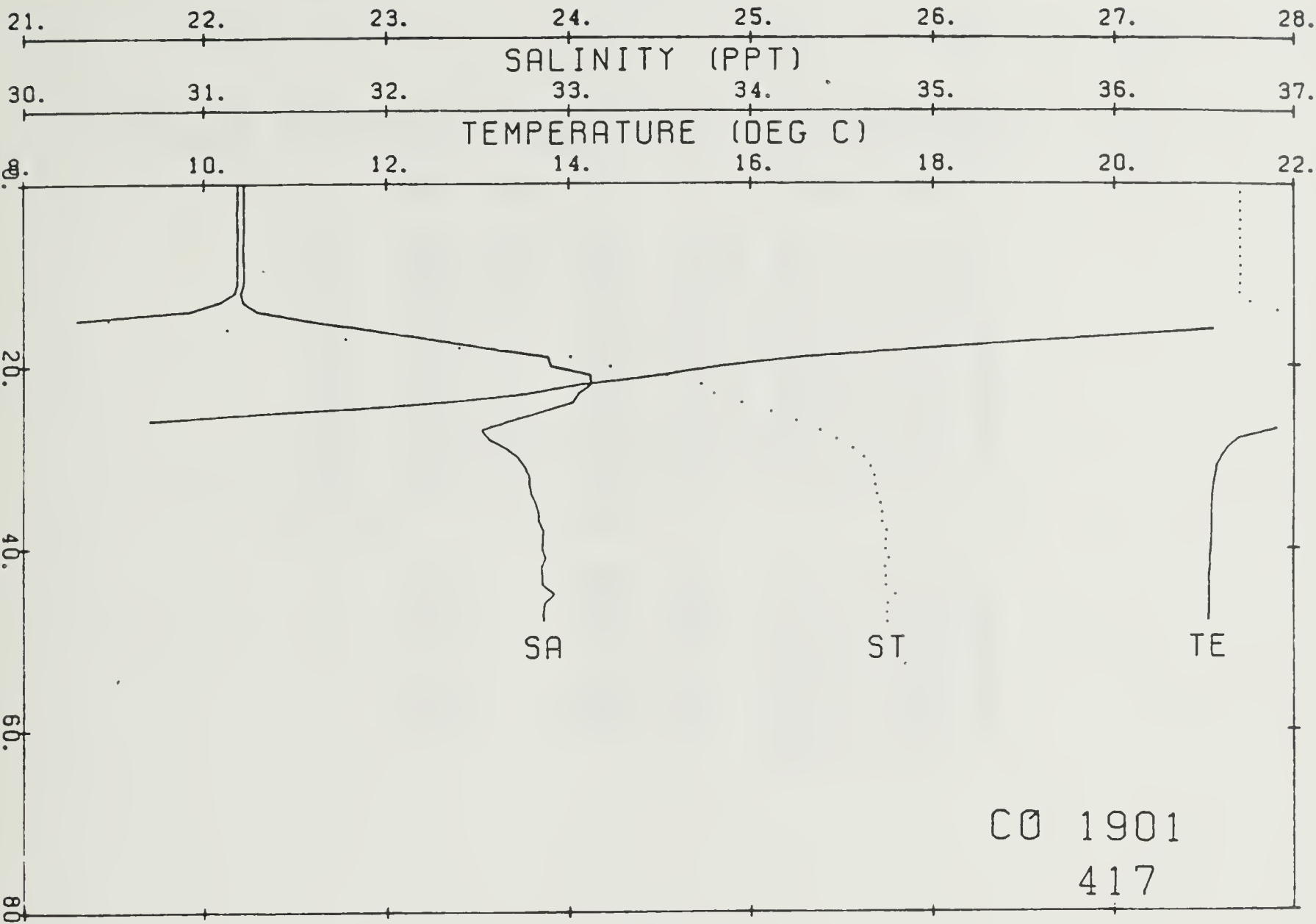
DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
1	24.350	31.208	5.13	0.04		0.11		
8	24.330	31.210	5.24	0.04		0.26		
16	23.610	31.333	5.37	0.08		0.05		
22	16.020	32.377	6.67	0.14		0.47		
26	8.240	32.916	6.66	0.72		3.15		
31	7.070	32.827	5.80	1.14		6.56		
37	7.010	32.830	5.81	0.72		6.36		
42	7.040	32.829	5.80	0.77		6.57		
46	7.100	32.825	5.81	0.76		6.57		

SHIP CD CRUISE 19-01 STATION 418 POSITION 39 14.63 N 73 19.37 W
 LDCAL TIME 1123 DATE 75/ 7/30 WIND = 5knots DIR = 360 DEPTH= 57M

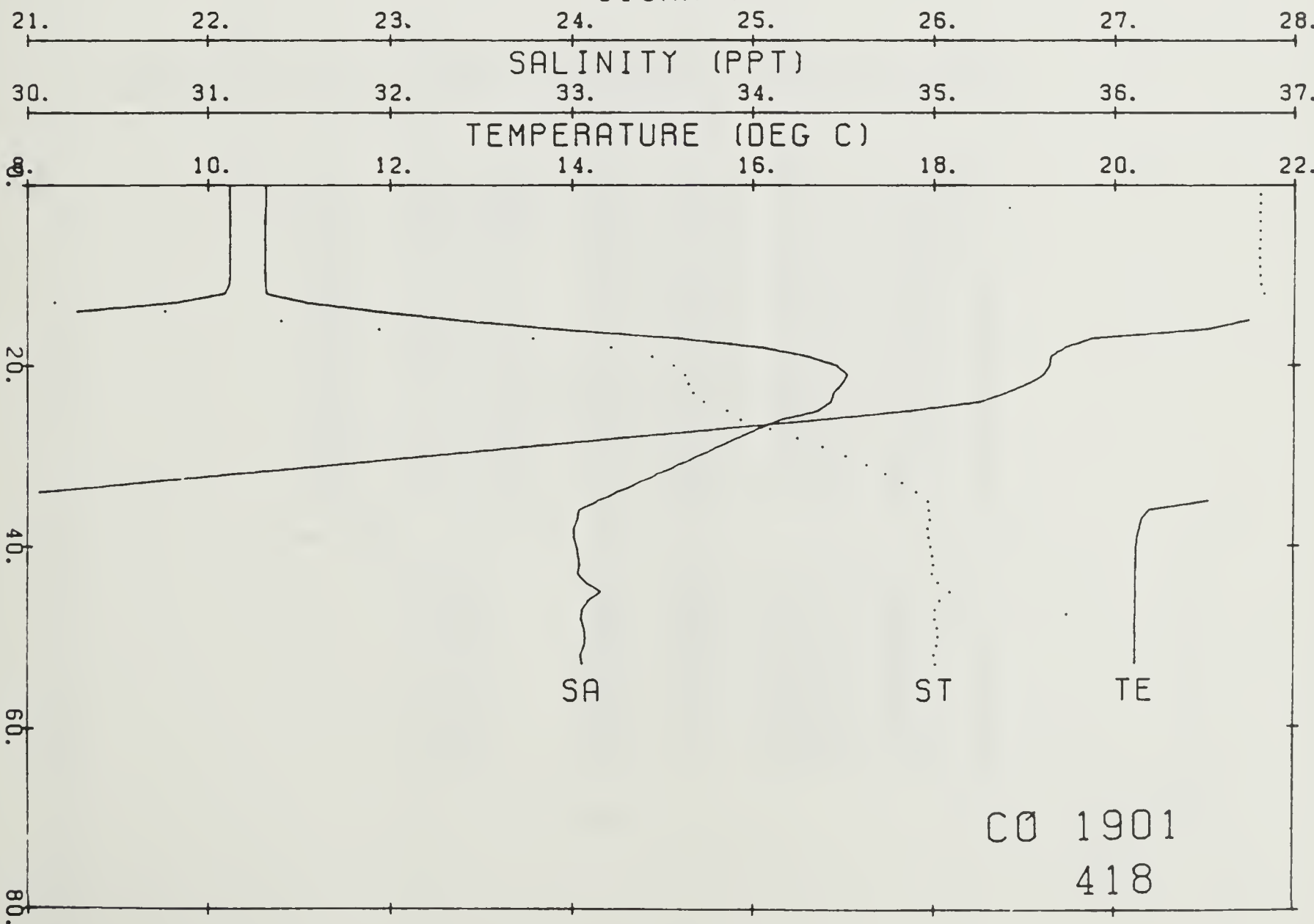
DTH	TEM	SAL	SGT	ANO	DYN	SVL	DTH
0	24.236	31.319	20.790	697.1	0.000	1528.9	0.0
5	24.238	31.314	20.786	697.7	.035	1529.0	5.0
10	24.238	31.318	20.789	697.6	.070	1529.1	10.0
15	21.491	32.394	22.380	545.3	.101	1523.4	15.0
20	19.267	34.467	24.547	338.6	.123	1519.8	20.0
25	17.743	34.358	24.844	310.4	.139	1515.4	25.0
30	12.419	33.694	25.495	248.4	.153	1497.8	30.0
35	7.043	33.140	25.948	205.1	.164	1477.3	35.0
40	6.240	33.024	25.962	203.8	.175	1474.1	40.0
45	6.233	33.070	25.999	200.3	.185	1474.2	45.0
50	6.227	33.073	26.002	200.1	.195	1474.3	50.0
53	6.228	33.055	25.988	201.5	.201	1474.3	53.0

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
2	24.210	31.300						
6	24.250	31.286						
11	24.190	31.282						
23	18.870	34.450						
36	6.360	33.023						
37	6.250	33.026						
39	6.230	33.018						
44	6.220	33.048						
50	6.210	33.038						

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SHIP CD CRUISE 19-01 STATION 419 POSITION 39 13.07 N 73 20.52 W
 LOCAL TIME 1250 DATE 75/ 7/30 WIND = 5knots DIR = 360 DEPTH= 57M

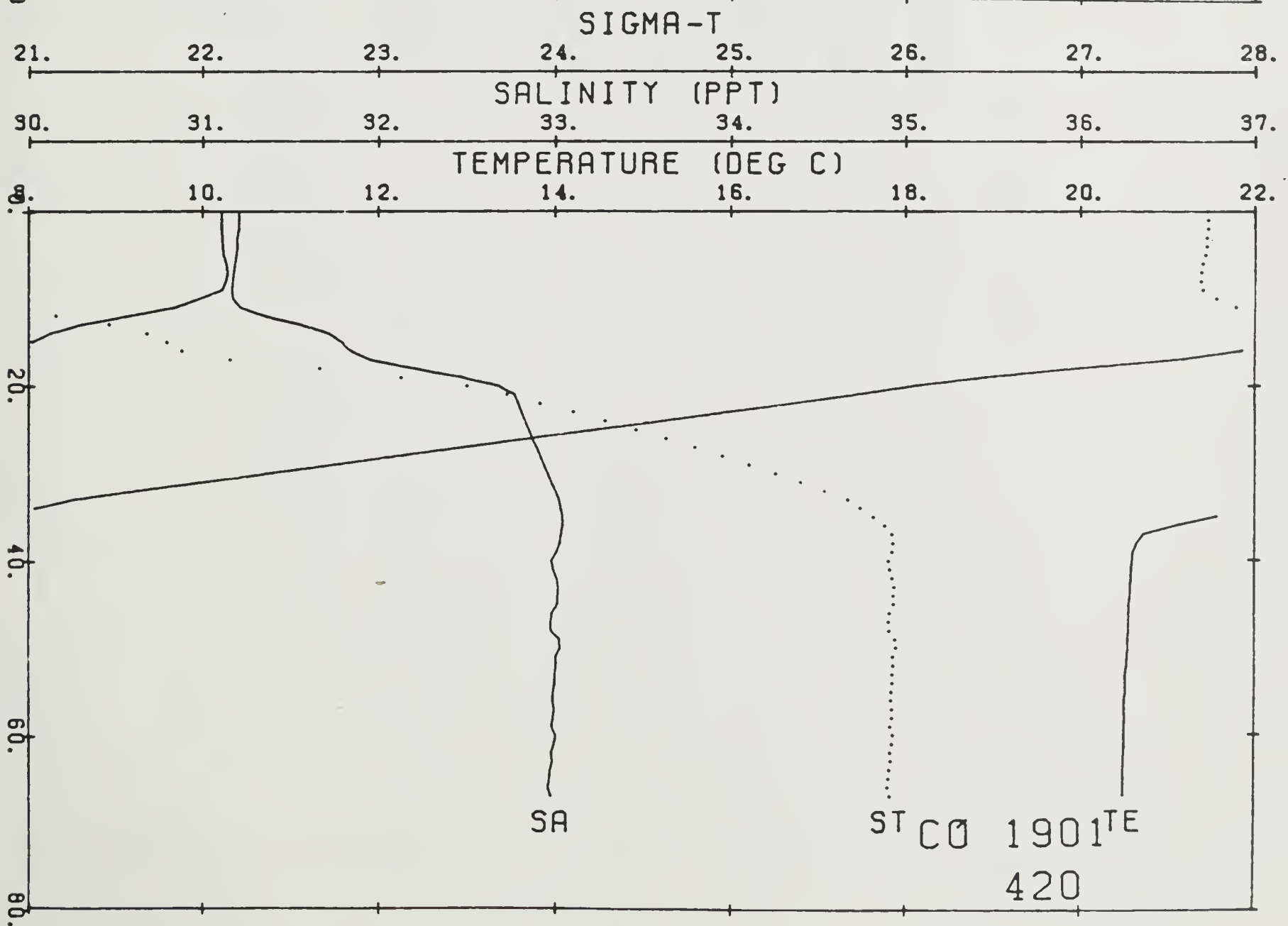
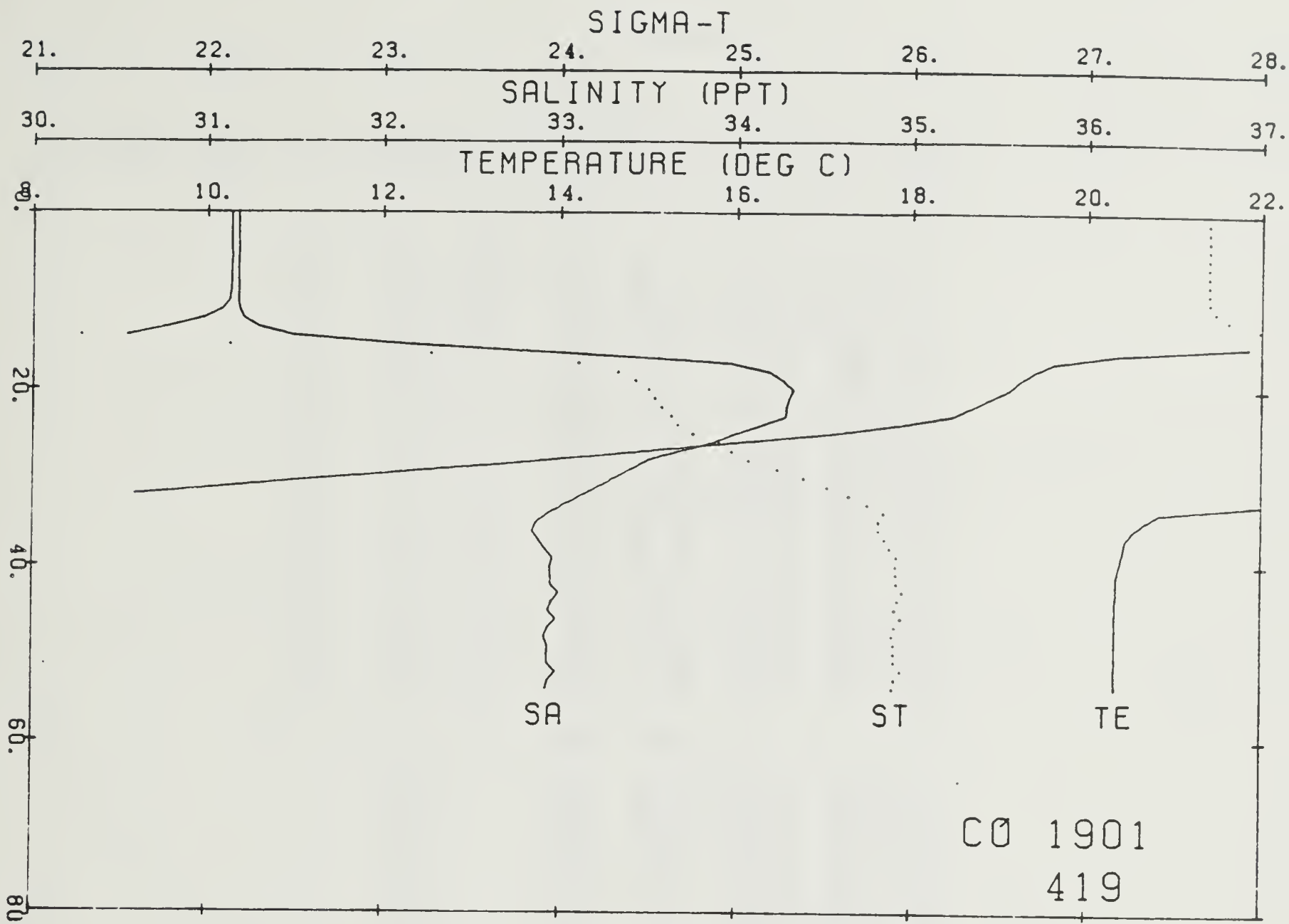
DTH	TEM	SAL	SGT	ANO	DYN	SVL	DTH
0	24.271	31.175	20.671	708.5	0.000	1528.8	0.0
5	24.275	31.176	20.671	708.8	.035	1528.9	5.0
10	24.246	31.173	20.677	708.3	.071	1528.9	10.0
15	21.842	32.160	22.106	571.5	.103	1524.0	15.0
20	19.092	34.319	24.478	345.1	.126	1519.1	20.0
25	17.015	33.982	24.730	321.2	.142	1512.8	25.0
30	11.523	33.306	25.363	260.9	.157	1494.2	30.0
35	6.644	32.865	25.785	220.6	.169	1475.4	35.0
40	6.365	32.945	25.883	211.2	.180	1474.5	40.0
45	6.328	32.935	25.880	211.6	.190	1474.4	45.0
50	6.326	32.931	25.877	211.9	.201	1474.5	50.0
55	6.330	32.922	25.870	212.7	.209	1474.5	54.0

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
2	24.300	31.144	5.27	0.06		0.16		
6	24.290	31.148	5.27	0.05		0.05		
10	24.250	31.147	5.28	0.09		0.16		
23	18.700	34.342	6.12	0.10		1.54		
34	6.350	32.906						
40	6.340	32.862	5.94	0.77		7.51		
43	6.320	32.867	6.11	0.79		7.68		
47	6.330	32.865	5.96	0.79		7.84		
51	6.340	32.895						

SHIP CD CRUISE 19-01 STATION 420 POSITION 39 11.46 N 73 8.39 W
 LOCAL TIME 1507 DATE 75/ 7/30 WIND = 4knots DIR = 10 DEPTH= 73M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	DTH
0	24.219	31.204	20.708	705.0	0.000	1528.7	0.0
5	24.245	31.191	20.691	706.8	.035	1528.8	5.0
10	23.967	31.172	20.758	700.6	.070	1528.2	10.0
15	22.028	31.789	21.774	603.3	.103	1524.1	15.0
20	18.081	32.678	23.476	440.7	.129	1514.3	20.0
25	14.441	32.852	24.436	349.1	.149	1503.4	25.0
30	10.726	32.957	25.234	273.1	.164	1490.9	30.0
35	7.573	33.040	25.796	219.6	.177	1479.3	35.0
40	6.599	32.975	25.877	211.9	.188	1475.5	40.0
45	6.562	33.009	25.909	208.9	.198	1475.4	45.0
50	6.549	33.024	25.922	207.7	.209	1475.5	50.0
55	6.520	32.986	25.896	210.3	.219	1475.4	55.0
60	6.508	32.999	25.908	209.2	.229	1475.4	60.0
65	6.498	32.962	25.880	211.9	.240	1475.4	65.0
67	6.495	32.972	25.888	211.1	.244	1475.5	67.0

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
2	24.470	31.157	5.27	0.07		0.82		
4	24.430	31.158	5.26	0.06		0.22		
8	24.180	31.169	5.29	0.08		0.27		
20	18.090	32.345	6.05	0.13		0.82		
34	7.030	32.925	6.84	0.49		4.44		
48	6.520	32.940	6.17	0.76		8.23		
55	6.490	32.929	6.18	0.75		8.28		
61	6.480	32.926	6.15	0.74		8.34		
66	6.500	32.904	6.14	0.74		8.34		



SHIP CO CRUISE 19-01 STATION 422 POSITION 39 4.50 N 72 51.48 W
 LOCAL TIME 2014 DATE 75/ 7/30 WIND = 3knots DIR = 10 DEPTH= 106M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	DTH
0	25.114	32.541	21.452	633.7	0.000	1532.4	0.0
5	25.220	32.554	21.429	636.0	.032	1532.7	5.0
10	24.615	33.516	22.338	549.2	.061	1532.4	10.0
15	24.018	34.614	23.345	453.1	.086	1532.3	15.0
20	21.869	34.510	23.883	401.9	.108	1526.9	20.0
25	20.067	34.733	24.542	339.3	.126	1522.4	25.0
30	17.554	34.193	24.764	318.2	.143	1514.7	30.0
35	13.668	33.390	25.012	294.5	.158	1501.7	35.0
40	10.791	32.911	25.186	277.8	.172	1491.2	40.0
45	8.736	32.855	25.480	249.9	.186	1483.7	45.0
50	7.289	32.740	25.600	238.4	.198	1478.0	50.0
55	6.923	33.080	25.917	208.3	.209	1477.1	55.0
60	8.319	33.670	26.182	183.4	.219	1483.4	60.0
65	8.650	33.672	26.133	188.2	.228	1484.7	65.0
70	8.599	33.774	26.221	179.9	.237	1484.7	70.0
75	9.132	34.059	26.361	166.9	.246	1487.2	75.0
80	9.965	34.335	26.439	159.6	.254	1490.7	80.0
85	10.339	34.396	26.422	161.4	.262	1492.2	85.0
90	10.492	34.576	26.536	150.7	.270	1493.1	90.0
95	10.495	34.554	26.519	152.5	.277	1493.2	95.0
100	10.501	34.552	26.516	152.9	.284	1493.2	99.0

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
1	24.670	32.455	5.05	0.06		0.38		
8	24.590	32.730	5.05	0.04		0.43		
15	23.600	34.832	5.28	0.02		1.18		
23	20.370	34.812	5.80	0.03		1.50		
30	19.220	34.866	5.93	0.04		1.61		
37	13.360	33.722	7.04	0.19		1.93		
49	7.300	33.057	6.16	0.71		6.38		
65	8.440	33.602	5.90	0.74		6.81		
82	9.070	33.871	5.79	0.71		6.65		
88	10.460	34.493	5.26	0.78		8.45		
94	10.490	34.518	5.32	0.77		8.21		

SIGMA-T

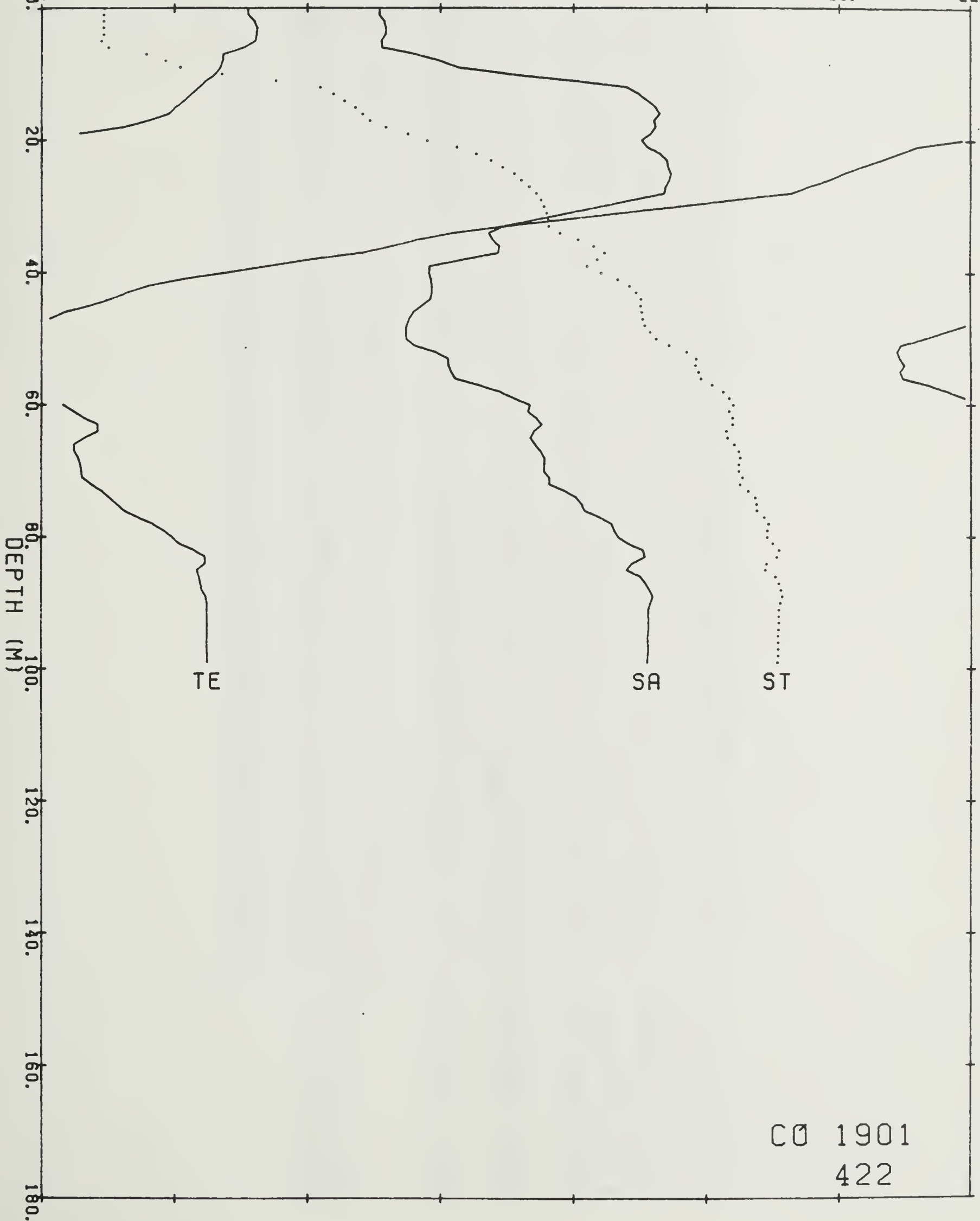
21. 22. 23. 24. 25. 26. 27. 28.

SALINITY (PPT)

30. 31. 32. 33. 34. 35. 36. 37.

TEMPERATURE (DEG C)

8. 10. 12. 14. 16. 18. 20. 22.



CO 1901
422

SHIP CO CRUISE 19-01 STATION 424 POSITION 39 .66 N 72 40.13 W
 LOCAL TIME 159 DATE 75/ 7/30 WIND = knots DIR = DEPTH= 944M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	DTH
0	25.887	34.481	22.679	516.2	0.000	1536.3	0.0
5	25.894	34.470	22.668	517.4	.026	1536.4	5.0
10	26.120	35.132	23.097	476.6	.051	1537.7	10.0
15	26.177	35.763	23.556	433.0	.073	1538.6	15.0
20	25.280	35.960	23.983	392.5	.094	1536.9	20.0
25	24.726	35.903	24.109	380.6	.113	1535.6	25.0
30	23.331	36.020	24.613	332.8	.131	1532.4	30.0
35	19.604	35.532	25.273	270.0	.146	1522.2	35.0
40	19.401	35.811	25.539	244.9	.159	1522.1	40.0
45	17.393	35.625	25.901	210.6	.171	1516.2	45.0
50	15.950	35.350	26.029	198.4	.181	1511.6	50.0
55	15.879	35.613	26.248	177.8	.190	1511.8	55.0
60	15.846	35.750	26.361	167.3	.199	1511.9	60.0
65	15.691	35.792	26.429	161.0	.207	1511.6	65.0
70	15.279	35.410	26.227	180.2	.216	1509.9	70.0
75	13.301	35.258	26.532	151.2	.224	1503.4	75.0
80	11.947	34.822	26.462	157.8	.232	1498.4	80.0
85	11.854	35.129	26.718	133.6	.239	1498.5	85.0
90	12.686	35.449	26.804	125.7	.245	1501.8	90.0
95	13.104	35.461	26.730	133.0	.252	1503.3	95.0
100	12.975	35.464	26.758	130.4	.258	1503.0	100.0
105	12.872	35.470	26.784	128.1	.265	1502.7	105.0
110	12.827	35.501	26.817	125.1	.271	1502.7	110.0
115	12.781	35.500	26.825	124.4	.277	1502.6	115.0
120	12.717	35.499	26.837	123.4	.284	1502.5	120.0
125	12.686	35.492	26.838	123.5	.290	1502.5	125.0
130	12.591	35.482	26.849	122.5	.296	1502.2	130.0
135	12.478	35.473	26.864	121.2	.302	1501.9	135.0
140	12.411	35.486	26.887	119.1	.308	1501.8	140.0
145	12.467	35.500	26.887	119.3	.314	1502.1	145.0
150	12.412	35.475	26.879	120.2	.320	1501.9	150.0
155	12.253	35.435	26.879	120.3	.326	1501.4	155.0
160	12.181	35.436	26.894	119.0	.332	1501.2	160.0
165	12.104	35.457	26.925	116.1	.338	1501.1	165.0
170	12.070	35.459	26.933	115.5	.344	1501.1	170.0
175	12.043	35.462	26.940	114.9	.349	1501.1	175.0
180	11.987	35.447	26.939	115.1	.355	1500.9	180.0
185	11.877	35.422	26.941	115.0	.361	1500.6	185.0
190	11.722	35.400	26.953	113.9	.367	1500.1	190.0
195	11.630	35.415	26.983	111.2	.372	1499.9	195.0
200	11.536	35.380	26.973	112.2	.378	1499.6	200.0
225	10.832	35.318	27.054	104.9	.405	1497.4	225.0
250	10.197	35.225	27.094	101.4	.431	1495.5	250.0
275	9.512	35.136	27.141	97.1	.456	1493.3	275.0
300	8.982	35.103	27.202	91.6	.479	1491.7	300.0
325	8.296	35.024	27.248	87.3	.502	1489.4	325.0
350	7.669	35.035	27.351	77.6	.522	1487.4	350.0
375	7.160	35.041	27.429	70.3	.541	1485.8	375.0
400	6.611	35.009	27.480	65.4	.558	1484.1	400.0
425	6.248	34.990	27.513	62.3	.574	1483.0	425.0
450	6.066	35.012	27.554	58.6	.589	1482.7	450.0
475	5.818	34.998	27.574	56.8	.603	1482.1	475.0
500	5.572	35.009	27.614	53.2	.617	1481.5	500.0
600	4.983	35.007	27.683	47.2	.667	1480.8	600.0
700	4.645	35.013	27.726	43.7	.712	1481.0	700.0
800	4.546	35.023	27.746	42.8	.756	1482.3	800.0
900	4.440	35.032	27.764	41.9	.798	1483.5	900.0
929	4.397	35.024	27.763	42.3	.810	1483.8	929.0

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
2	25.810	34.524	4.89	0.01		0.49		
60	16.510	35.907	3.78	0.64		5.31		
75	11.540	34.911	5.36	0.46		4.60		
83	13.150	35.447	4.65	0.68		5.36		
275	9.210	35.203	3.32	1.58		15.10		
368	7.250	35.080	3.98	1.57		15.37		
454	6.020	35.036	4.72	1.43		14.55		
542	5.150	35.005		1.29		13.19		
633	4.830	35.006	5.59					
747	4.570	34.998	5.68	1.28		12.97		
858	4.500	34.996	5.90	1.25		12.91		
924	4.380	34.992	5.97	1.23		12.86		

SIGMA-T

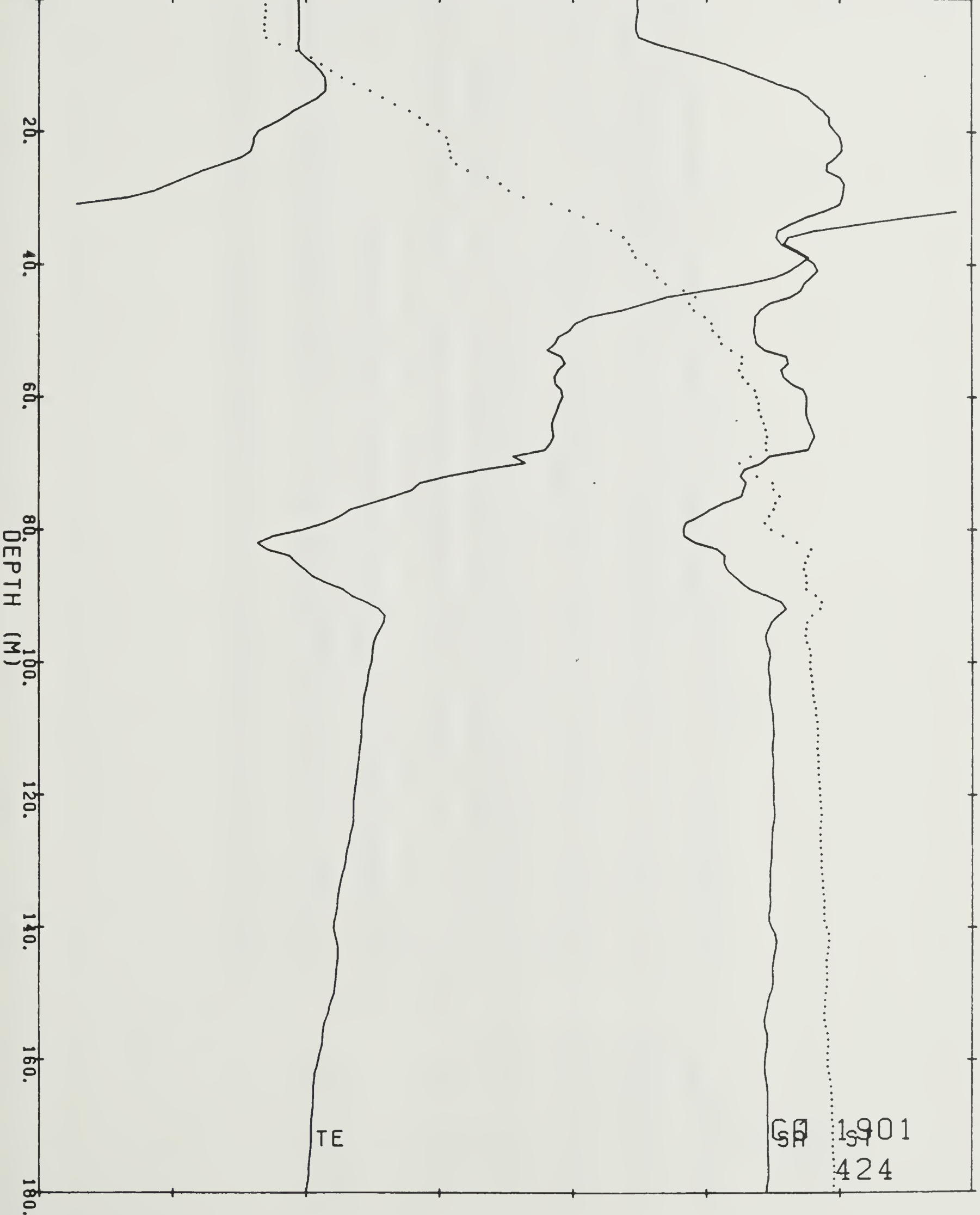
21. 22. 23. 24. 25. 26. 27. 28.

SALINITY (PPT)

30. 31. 32. 33. 34. 35. 36. 37.

TEMPERATURE (DEG C)

9. 10. 12. 14. 16. 18. 20. 22.



SHIP CO CRUISE 19-01 STATION 425 POSITIDN 39 1.79 N 72 38.82 W
 LOCAL TIME 518 OATE 75/ 7/30 WIND = 5knots DIR = 120 DEPTH=1891M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	DTH
0	25.168	33.577	22.217	560.4	0.000	1533.6	0.0
5	25.169	33.590	22.227	559.7	.028	1533.7	5.0
10	24.130	33.410	22.401	543.1	.056	1531.1	10.0
15	23.193	34.306	23.353	452.3	.080	1529.9	15.0
20	21.886	34.390	23.788	411.0	.102	1526.8	20.0
25	20.184	34.449	24.294	362.9	.121	1522.4	25.0
30	18.434	34.630	24.882	307.0	.138	1517.8	30.0
35	16.876	34.901	25.469	251.3	.152	1513.6	35.0
40	16.428	35.145	25.761	223.6	.164	1512.7	40.0
45	15.185	35.006	25.937	207.0	.175	1508.7	45.0
50	15.255	35.324	26.166	185.4	.185	1509.4	50.0
55	15.556	35.430	26.180	184.2	.194	1510.6	55.0
60	15.299	35.376	26.196	182.8	.203	1509.8	60.0
65	15.357	35.594	26.351	168.3	.212	1510.3	65.0
70	15.122	35.474	26.311	172.2	.220	1509.5	70.0
75	14.940	35.592	26.442	159.9	.229	1509.2	75.0
80	15.030	35.697	26.504	154.2	.236	1509.6	80.0
85	15.191	35.809	26.554	149.6	.244	1510.4	85.0
90	14.966	35.758	26.565	148.7	.251	1509.7	90.0
95	14.569	35.698	26.605	145.0	.259	1508.4	95.0
100	14.123	35.608	26.632	142.6	.266	1507.0	100.0
105	13.644	35.512	26.658	140.1	.273	1505.4	105.0
110	13.618	35.643	26.765	130.1	.280	1505.5	110.0
115	14.181	35.818	26.782	128.8	.286	1507.7	115.0
120	14.256	35.807	26.757	131.3	.293	1508.0	120.0
125	14.118	35.788	26.772	130.0	.299	1507.6	125.0
130	14.503	35.943	26.809	126.7	.306	1509.1	130.0
135	14.760	35.999	26.796	128.1	.312	1510.1	135.0
140	14.767	35.995	26.792	128.7	.319	1510.2	140.0
145	14.747	35.990	26.792	128.8	.325	1510.2	145.0
150	14.733	35.987	26.793	128.9	.331	1510.2	150.0
155	14.737	35.986	26.791	129.2	.338	1510.3	155.0
160	14.734	35.973	26.782	130.2	.344	1510.4	160.0
165	14.689	35.965	26.785	130.0	.351	1510.3	165.0
170	14.595	35.941	26.787	130.0	.357	1510.0	170.0
175	14.500	35.906	26.781	130.7	.364	1509.8	175.0
180	14.319	35.866	26.789	130.0	.370	1509.2	180.0
185	14.182	35.813	26.778	131.2	.377	1508.8	185.0
190	13.891	35.763	26.801	129.1	.383	1507.9	190.0
195	13.567	35.640	26.773	131.7	.390	1506.7	195.0
200	13.140	35.531	26.777	131.4	.397	1505.3	200.0
225	12.390	35.427	26.846	125.2	.429	1503.0	225.0
250	11.938	35.385	26.901	120.5	.459	1501.8	250.0
275	11.533	35.357	26.956	115.7	.489	1500.8	275.0
300	10.247	35.168	27.041	107.5	.517	1496.4	300.0
325	9.691	35.153	27.124	99.8	.543	1494.7	325.0
350	9.069	35.065	27.158	96.7	.567	1492.7	350.0
375	8.309	35.059	27.274	85.8	.590	1490.3	375.0
400	7.832	35.011	27.308	82.6	.611	1488.8	400.0
425	7.278	34.990	27.372	76.5	.631	1487.1	425.0
450	6.806	34.994	27.441	70.0	.649	1485.6	450.0
475	6.617	35.011	27.480	66.5	.666	1485.3	475.0
500	6.244	34.982	27.507	63.9	.683	1484.2	500.0
600	5.245	34.985	27.635	52.1	.741	1481.8	600.0
700	4.841	34.984	27.681	48.3	.791	1481.8	700.0
800	4.573	34.986	27.713	45.9	.838	1482.3	800.0
900	4.533	35.013	27.739	44.5	.883	1483.8	900.0
1000	4.394	35.015	27.756	43.6	.927	1484.9	1000.0
1100	4.257	35.019	27.774	42.6	.970	1486.0	1100.0
1200	4.133	35.018	27.787	42.1	1.013	1487.1	1200.0
1300	4.047	35.026	27.802	41.3	1.054	1488.4	1300.0
1400	3.987	35.039	27.819	40.5	1.095	1489.9	1400.0
1500	3.931	35.048	27.832	40.0	1.135	1491.3	1500.0
1554	3.905	35.055	27.840	39.7	1.157	1492.1	1554.0

DTH	TEM	SAL	DXG	PHDS	NITR	SIL	NO2	AMM
1	25.020	33.646	4.92					
23	19.300	34.882	5.94	0.07		1.68		
73	15.000	35.748	3.98	0.67		5.88		
136	14.800	36.066	5.21	0.49		3.58		
367	8.830	35.159	3.30	1.68		15.62		
535	5.840	35.004						
675	4.960	35.018	5.52	1.33		12.86		
823	4.600	35.008	5.86	1.29		12.48		
956	4.520	35.012	5.90	1.29		12.53		
1104	4.230	34.991	6.07	1.27		12.53		
1386	4.020	34.986	6.19	1.24		13.02		
1467	3.950	34.987	6.18	1.22		12.69		

SIGMA-T

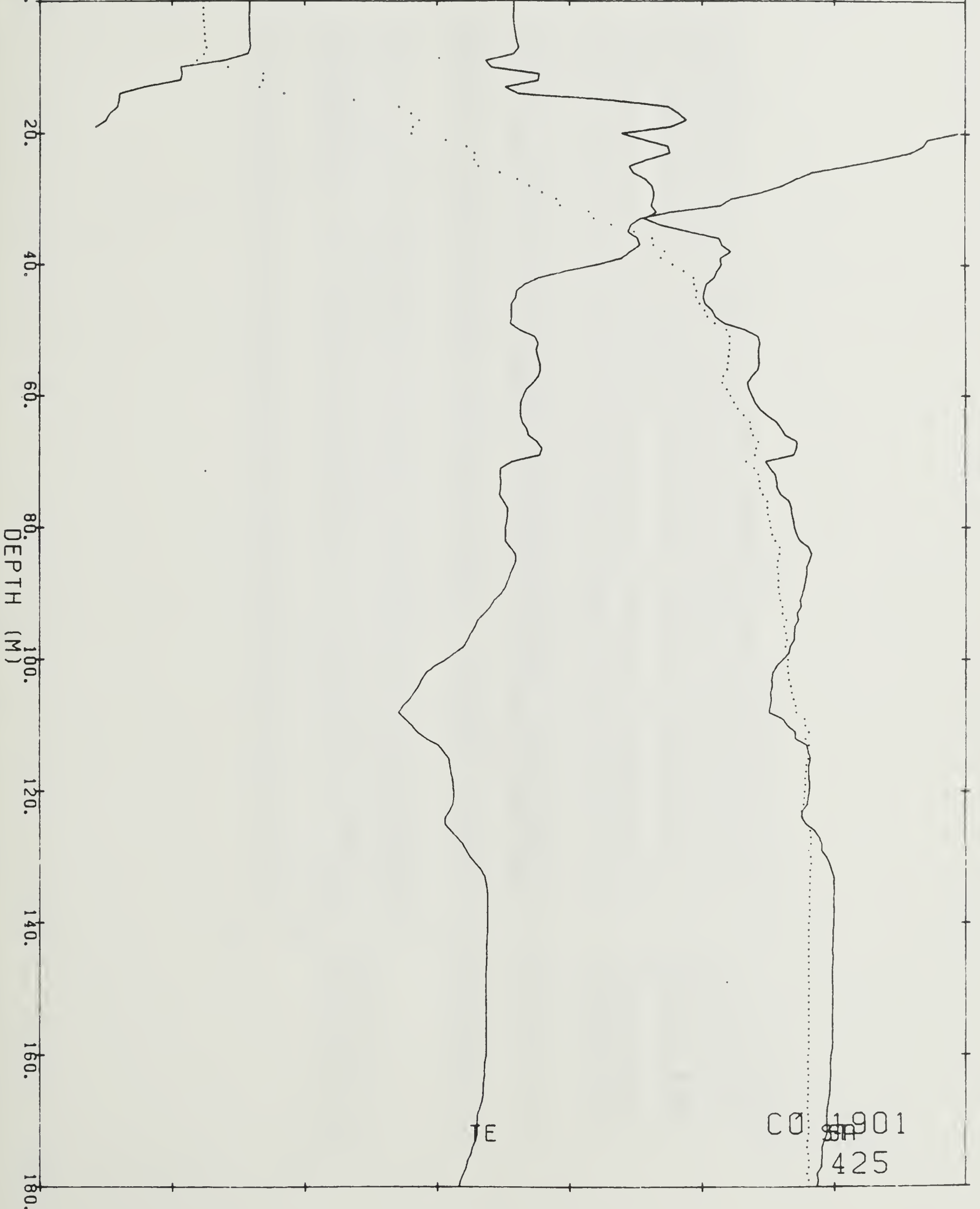
21. 22. 23. 24. 25. 26. 27. 28.

SALINITY (PPT)

30. 31. 32. 33. 34. 35. 36. 37.

TEMPERATURE (DEG C)

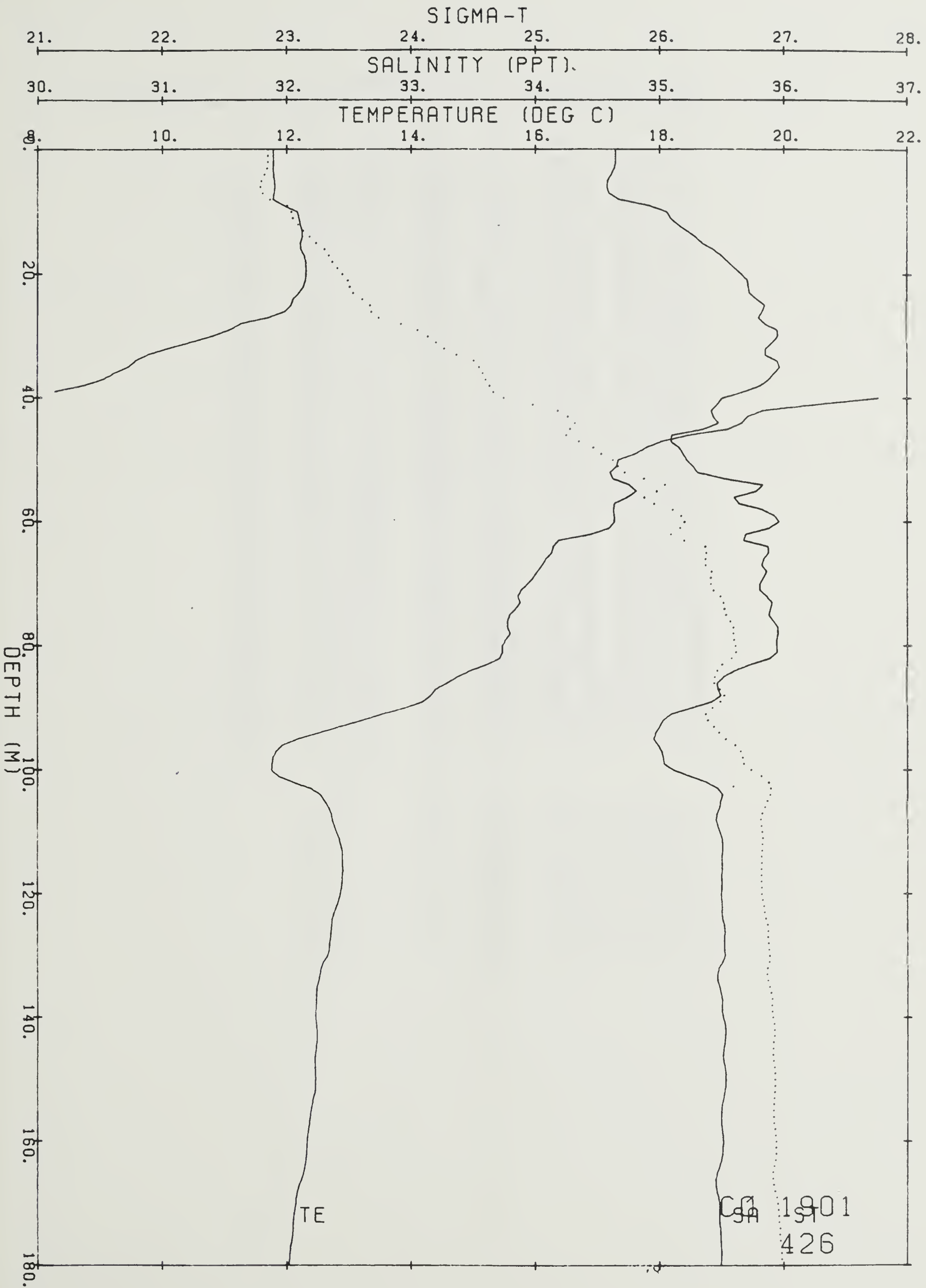
8. 10. 12. 14. 16. 18. 20. 22.



SHIP CO CRUISE 19-01 STATION 426 POSITION 39 5.40 N 72 34.19 W
 LOCAL TIME 1428 DATE 75/ 7/31 WIND = 5knots DIR = 250 DEPTH= 613M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	DTH
0	25.787	34.646	22.834	501.3	0.000	1536.3	0.0
5	25.802	34.580	22.780	506.8	.025	1536.3	5.0
10	26.176	35.061	23.026	483.4	.050	1537.8	10.0
15	26.221	35.346	23.227	464.4	.074	1538.3	15.0
20	26.313	35.663	23.437	444.6	.096	1538.9	20.0
25	26.065	35.849	23.656	423.9	.118	1538.6	25.0
30	24.816	35.955	24.121	379.7	.138	1536.0	30.0
35	23.465	35.969	24.535	340.4	.156	1532.8	35.0
40	21.531	35.505	24.734	321.6	.173	1527.5	40.0
45	19.105	35.354	25.266	271.0	.188	1520.8	45.0
50	17.333	35.226	25.609	238.5	.200	1515.6	50.0
55	17.636	35.783	25.963	205.1	.211	1517.3	55.0
60	17.275	35.964	26.189	183.7	.221	1516.5	60.0
65	16.266	35.879	26.363	167.2	.230	1513.5	65.0
70	15.872	35.807	26.399	164.0	.238	1512.2	70.0
75	15.587	35.883	26.522	152.4	.246	1511.5	75.0
80	15.472	35.947	26.598	145.4	.253	1511.3	80.0
85	14.744	35.515	26.426	161.7	.261	1508.6	85.0
90	13.897	35.255	26.407	163.6	.269	1505.6	90.0
95	12.179	34.952	26.518	152.9	.277	1499.6	95.0
100	11.760	35.114	26.724	133.4	.284	1498.4	100.0
105	12.620	35.492	26.851	121.7	.291	1501.9	105.0
110	12.811	35.487	26.809	125.8	.297	1502.6	110.0
115	12.904	35.504	26.803	126.5	.303	1503.1	115.0
120	12.862	35.498	26.807	126.3	.310	1503.0	120.0
125	12.724	35.525	26.856	121.8	.316	1502.6	125.0
130	12.660	35.532	26.874	120.2	.322	1502.5	130.0
135	12.490	35.485	26.871	120.5	.328	1502.0	135.0
140	12.470	35.515	26.898	118.1	.334	1502.0	140.0
145	12.472	35.520	26.902	117.9	.340	1502.1	145.0
150	12.465	35.538	26.917	116.5	.346	1502.2	150.0
155	12.388	35.499	26.902	118.1	.351	1502.0	155.0
160	12.326	35.515	26.927	115.9	.357	1501.8	160.0
165	12.271	35.466	26.899	118.6	.363	1501.7	165.0
170	12.140	35.485	26.940	114.9	.369	1501.3	170.0
175	12.088	35.494	26.957	113.4	.375	1501.2	175.0
180	12.032	35.498	26.970	112.1	.380	1501.1	180.0
185	11.980	35.496	26.979	111.5	.386	1501.0	185.0
190	11.872	35.476	26.984	111.1	.391	1500.7	190.0
195	11.709	35.422	26.973	112.2	.397	1500.2	195.0
200	11.549	35.439	27.017	108.1	.403	1499.7	200.0
225	10.795	35.367	27.099	100.6	.429	1497.4	225.0
250	10.008	35.282	27.171	94.0	.453	1494.8	250.0
275	9.219	35.170	27.216	89.9	.476	1492.2	275.0
300	8.428	35.091	27.280	83.9	.498	1489.6	300.0
325	7.905	35.098	27.365	75.9	.518	1488.0	325.0
350	7.398	35.063	27.412	71.6	.536	1486.4	350.0
375	6.699	35.064	27.511	62.2	.553	1484.1	375.0
400	6.363	35.050	27.545	59.0	.568	1483.1	400.0
425	6.058	35.038	27.575	56.3	.582	1482.3	425.0
450	5.833	35.023	27.592	54.8	.596	1481.8	450.0
475	5.550	35.041	27.642	50.2	.609	1481.1	475.0
500	5.432	35.045	27.660	48.7	.622	1481.0	500.0
600	4.924	35.058	27.730	42.7	.667	1480.6	600.0
604	4.910	35.058	27.732	42.5	.669	1480.6	604.0

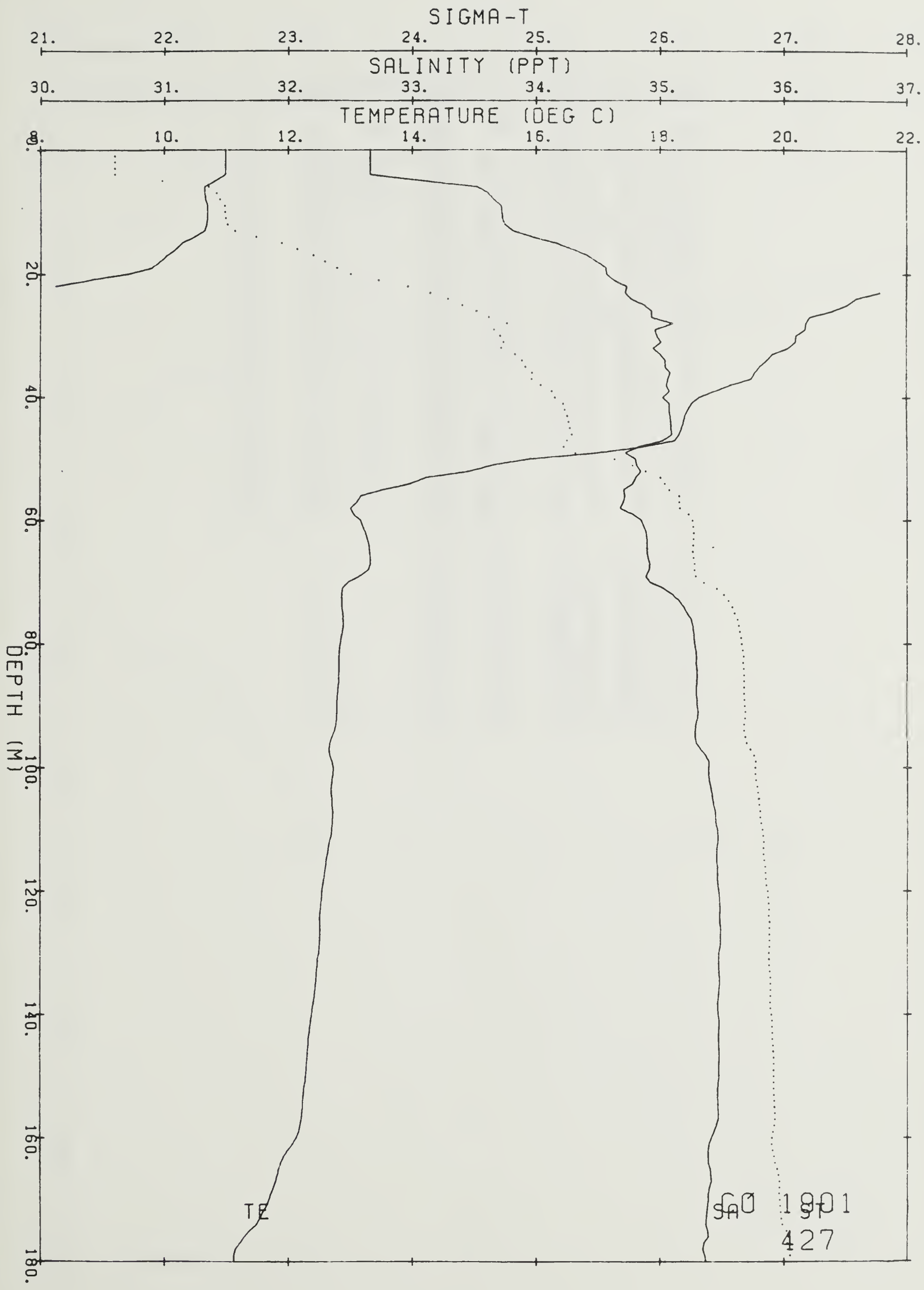
DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
2	26.080	34.544	4.85	0.02		0.43		
8	25.860	34.540	4.69	0.02		0.43		
13	26.210	35.064	4.77	0.03		0.54		
34	20.700	35.780	4.80	0.11		1.30		
82	15.190	35.952	3.81	0.86		6.40		
103	12.240	35.337	4.70	0.77		5.73		
117	12.700	35.473	4.81	0.76		5.26		
368	6.860	35.073	4.17	1.59		14.86		
506	5.500	35.019						
551	5.090	35.013	5.38	1.36		13.29		
594	4.930	35.009	5.46	1.32		12.75		



SHIP CO CRUISE 19-01 STATION 427 POSITION 39 9.84 N 72 35.76 W
 LOCAL TIME 1853 DATE 75/ 7/31 WIND = 6knots DIR = 190 DEPTH= 199M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	DTH
0	24.985	32.659	21.579	621.4	0.000	1532.2	0.0
5	24.824	33.103	21.963	584.9	.030	1532.4	5.0
10	24.695	33.725	22.471	536.4	.058	1532.8	10.0
15	24.285	34.165	22.927	493.1	.084	1532.4	15.0
20	23.425	34.571	23.487	439.7	.107	1530.9	20.0
25	21.035	34.874	24.390	353.8	.127	1525.2	25.0
30	20.194	34.977	24.694	324.9	.144	1523.1	30.0
35	19.608	35.043	24.898	305.6	.160	1521.7	35.0
40	18.628	35.026	25.136	283.1	.175	1519.0	40.0
45	18.347	35.093	25.258	271.7	.188	1518.3	45.0
50	15.902	34.805	25.621	237.2	.201	1510.8	50.0
55	13.521	34.707	26.061	195.4	.212	1503.1	55.0
60	13.173	34.853	26.245	178.0	.221	1502.2	60.0
65	13.321	34.898	26.249	177.7	.230	1502.9	65.0
70	12.964	34.923	26.341	169.1	.239	1501.8	70.0
75	12.886	35.219	26.586	146.0	.247	1502.0	75.0
80	12.840	35.282	26.644	140.6	.254	1502.0	80.0
85	12.815	35.302	26.665	138.8	.261	1502.0	85.0
90	12.786	35.302	26.670	138.4	.268	1502.0	90.0
95	12.709	35.286	26.673	138.2	.275	1501.8	95.0
100	12.734	35.396	26.754	130.8	.281	1502.1	100.0
105	12.708	35.427	26.783	128.1	.288	1502.1	105.0
110	12.702	35.464	26.813	125.4	.294	1502.2	110.0
115	12.612	35.457	26.825	124.4	.301	1502.0	115.0
120	12.544	35.477	26.854	121.7	.307	1501.9	120.0
125	12.511	35.486	26.868	120.6	.313	1501.9	125.0
130	12.494	35.476	26.863	121.1	.319	1501.9	130.0
135	12.442	35.479	26.876	120.1	.325	1501.8	135.0
140	12.373	35.471	26.883	119.5	.331	1501.6	140.0
145	12.313	35.475	26.898	118.2	.337	1501.5	145.0
150	12.276	35.474	26.905	117.7	.343	1501.5	150.0
155	12.224	35.468	26.910	117.3	.348	1501.4	155.0
160	12.125	35.412	26.886	119.7	.354	1501.0	160.0
165	11.847	35.405	26.934	115.2	.360	1500.1	165.0
170	11.687	35.390	26.952	113.5	.366	1499.6	170.0
175	11.376	35.385	27.007	108.4	.372	1498.6	175.0
180	11.117	35.371	27.044	104.9	.377	1497.8	180.0
185	10.810	35.261	27.014	107.8	.382	1496.6	185.0
186	10.719	35.274	27.040	105.2	.383	1496.4	186.0

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
2	25.120	32.565	5.08	0.03		0.70		
4	24.590	32.891	5.07	0.03		0.97		
8	24.580	33.764	5.09	0.03		1.30		
49	16.750	35.011	6.08	0.06		2.75		
62	13.370	34.860	5.93	0.11		3.89		
64	13.420	34.882	5.89	0.15		4.10		
86	12.770	35.356	5.16	0.57		4.91		
136	12.470	35.521	4.71	0.87		6.80		
155	12.200	35.502	4.52	0.94		7.72		
177	11.290	35.416	4.11	1.17		10.25		
182	10.800	35.366	3.85	1.30		11.60		



SHIP CO CRUISE 19-01 STATION 428 POSITION 39 18.30 N 72 37.67 W
 LOCAL TIME 2242 DATE 75/ 7/31 WIND = 10knots DIR = 210 DEPTH= 121M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	DTH
0	24.827	31.998	21.128	664.7	0.000	1531.1	0.0
5	24.538	32.348	21.478	631.3	.032	1530.8	5.0
10	23.501	33.993	23.027	483.3	.060	1530.2	10.0
15	22.118	35.047	24.222	369.4	.082	1528.0	15.0
20	20.613	34.677	24.354	357.0	.100	1523.7	20.0
25	19.031	34.570	24.686	325.5	.117	1519.3	25.0
30	14.469	33.878	25.222	274.5	.132	1504.8	30.0
35	10.688	33.230	25.453	252.4	.145	1491.2	35.0
40	9.413	33.167	25.618	236.8	.157	1486.5	40.0
45	8.154	33.158	25.805	218.9	.169	1481.9	45.0
50	7.136	33.014	25.836	215.9	.179	1477.8	50.0
55	7.312	33.006	25.806	218.9	.190	1478.6	55.0
60	7.499	33.333	26.037	197.1	.201	1479.8	60.0
65	7.958	33.463	26.073	193.8	.211	1481.8	65.0
70	8.406	33.677	26.174	184.3	.220	1483.9	70.0
75	8.559	33.774	26.227	179.4	.229	1484.7	75.0
80	9.039	34.086	26.396	163.5	.238	1487.0	80.0
85	10.674	34.656	26.567	147.8	.245	1493.8	85.0
90	10.308	34.434	26.458	158.2	.253	1492.2	90.0
95	11.109	34.925	26.698	135.7	.260	1495.8	95.0
100	11.400	35.151	26.820	124.2	.267	1497.2	100.0
105	11.778	35.189	26.779	128.3	.273	1498.7	105.0
110	11.831	35.188	26.768	129.5	.280	1498.9	110.0
110	11.831	35.188	26.768	129.5	.280	1498.9	110.0

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
2	24.850	32.231	5.05	0.05		0.97		
18	22.010	34.978	5.53	0.02		1.51		
28	18.110	34.517	6.25	0.10		1.62		
38	12.150	33.520	6.88	0.28		1.94		
49	8.640	33.105	6.25	0.60		3.78		
59	7.340	33.048	5.70	0.70		4.75		
68	7.630	33.225	6.07	0.79		6.48		
79	8.650	33.619	5.84	0.76		7.45		
86	10.870	34.434	5.63	0.59		6.31		
100	11.400	34.839	5.02	0.84		9.98		
111	11.810	35.189	4.68	0.86		10.47		

SIGMA-T

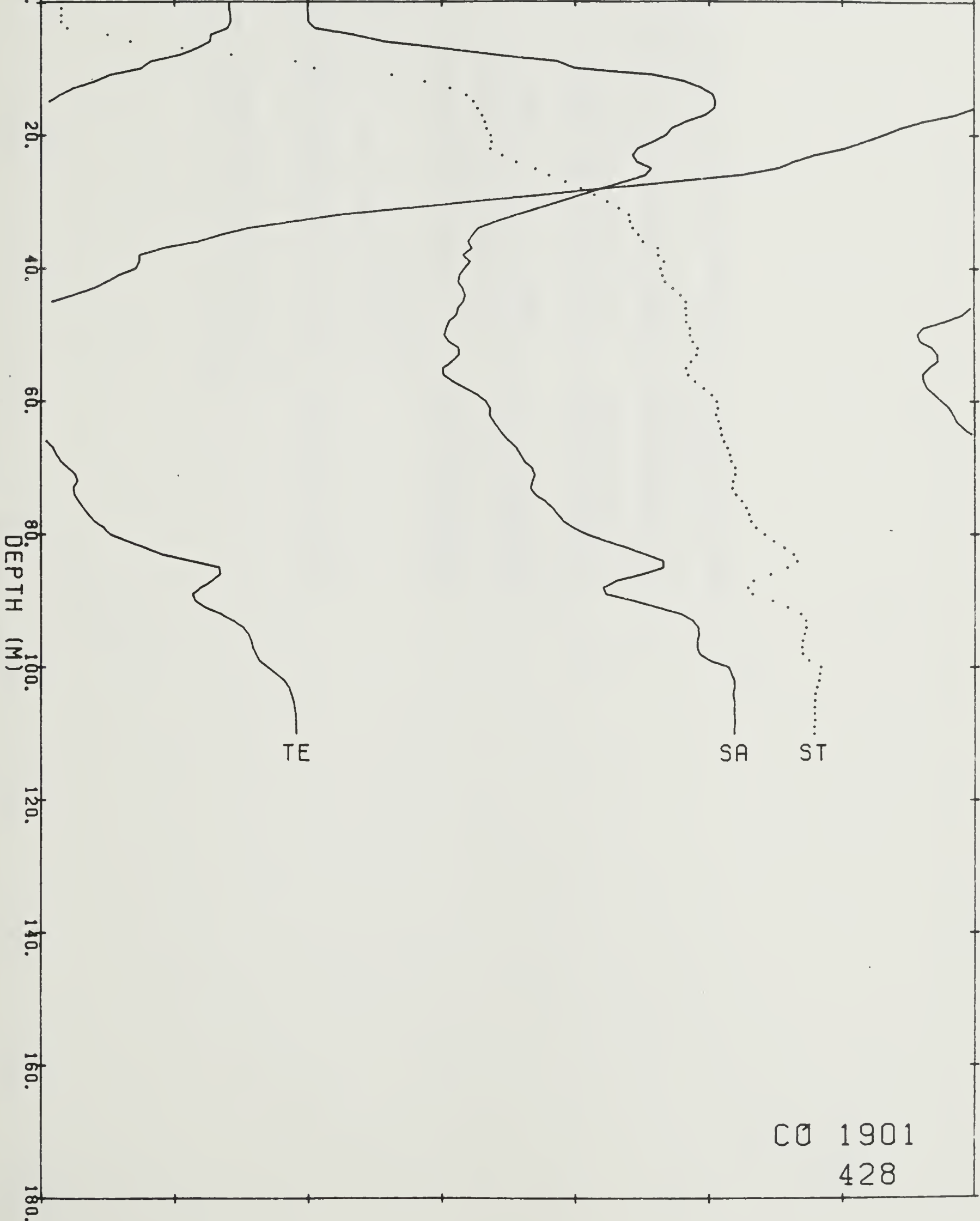
21. 22. 23. 24. 25. 26. 27. 28.

SALINITY (PPT)

30. 31. 32. 33. 34. 35. 36. 37.

TEMPERATURE (DEG C)

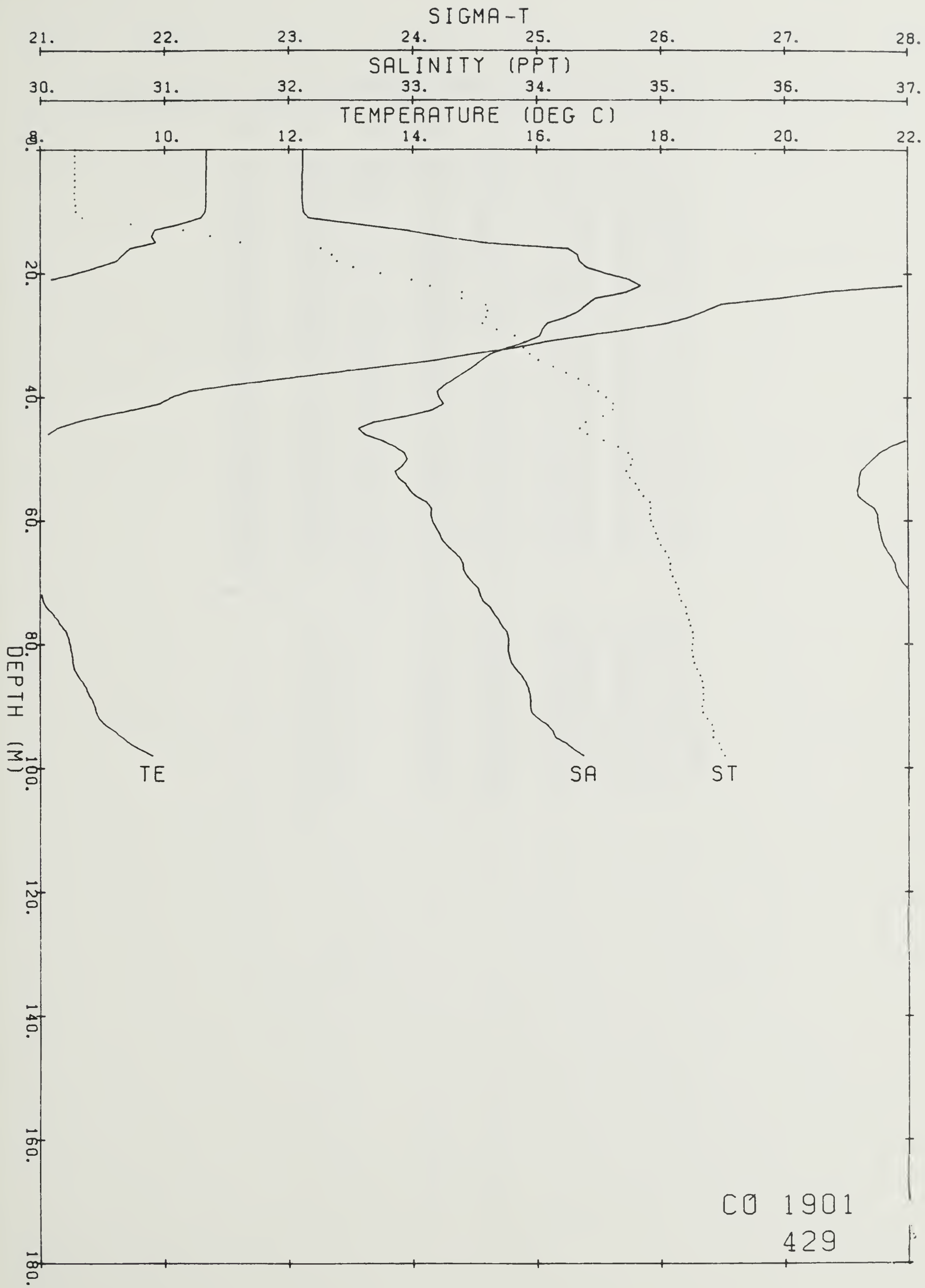
8. 10. 12. 14. 16. 18. 20. 22.



SHIP CO CRUISE 19-01 STATION 429 POSITION 39 26.33 N 72 36.54 W
 LOCAL TIME 133 DATE 75/ 8/ 1 WIND = 10knots DIR = 210 DEPTH= 108M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	DTH
0	24.674	32.114	21.261	652.0	0.000	1530.8	0.0
5	24.667	32.110	21.260	652.2	.033	1530.9	5.0
10	24.655	32.119	21.271	651.4	.065	1531.0	10.0
15	23.856	33.557	22.593	524.9	.095	1530.7	15.0
20	22.577	34.563	23.725	417.1	.118	1528.7	20.0
25	18.974	34.406	24.575	336.1	.137	1519.0	25.0
30	16.823	34.024	24.808	314.0	.153	1512.3	30.0
35	13.542	33.490	25.115	284.7	.168	1501.4	35.0
40	10.111	33.216	25.541	244.1	.181	1489.2	40.0
45	8.276	32.562	25.320	265.1	.194	1481.5	45.0
50	7.431	32.958	25.752	224.0	.206	1478.9	50.0
55	7.177	32.977	25.802	219.3	.217	1478.0	55.0
60	7.507	33.161	25.901	210.0	.228	1479.6	60.0
65	7.663	33.333	26.014	199.4	.238	1480.5	65.0
70	7.903	33.486	26.099	191.4	.248	1481.7	70.0
75	8.198	33.655	26.189	183.0	.258	1483.1	75.0
80	8.484	33.772	26.237	178.5	.267	1484.5	80.0
85	8.612	33.878	26.301	172.6	.275	1485.2	85.0
90	8.886	33.949	26.313	171.6	.284	1486.4	90.0
95	9.324	34.153	26.403	163.2	.292	1488.4	95.0
98	9.807	34.377	26.498	154.4	.297	1490.5	98.0

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
2	24.580	32.066	5.07	0.06		1.22		
10	24.520	32.069	4.92	0.06		1.06		
21	23.770	33.569	5.14	0.01		1.28		
26	17.270	34.237	6.07	0.10		1.65		
34	11.420	33.284	6.97	0.34		2.08		
43	8.650	33.073	6.31	0.60		3.99		
52	7.530	33.009	6.30	0.76		6.18		
61	7.490	33.148	5.82	0.82		7.72		
70	8.100	33.504	5.40	0.90		9.32		
79	8.530	33.732	5.00	0.92		9.96		
88	8.720	33.825	5.34	0.87		9.80		
96	9.910	34.276	5.05	0.87		10.33		



C0 1901
429

SHIP CO CRUISE 19-01 STATION 430 POSITION 39 28.01 N 72 22.38 W
 LOCAL TIME 405 DATE 75/ 8/ 1 WIND = 12knots DIR = 220 DEPTH= 135M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	DTH
0	24.318	31.589	20.970	679.9	0.000	1529.4	0.0
5	24.295	31.591	20.978	679.2	.034	1529.4	5.0
10	24.214	31.588	21.000	677.4	.068	1529.3	10.0
15	21.812	32.431	22.320	551.0	.099	1524.2	15.0
20	18.566	33.717	24.151	376.3	.122	1516.9	20.0
25	16.629	33.780	24.666	327.3	.139	1511.4	25.0
30	12.262	33.333	25.246	272.1	.154	1496.8	30.0
35	9.549	33.138	25.573	240.9	.167	1486.9	35.0
40	8.029	33.020	25.715	227.4	.179	1481.1	40.0
45	7.568	32.976	25.747	224.4	.190	1479.3	45.0
50	6.914	32.985	25.843	215.2	.201	1476.9	50.0
55	7.414	33.195	25.940	206.1	.212	1479.2	55.0
60	7.512	33.353	26.051	195.7	.222	1479.9	60.0
65	7.840	33.499	26.119	189.4	.231	1481.4	65.0
70	8.019	33.600	26.172	184.5	.241	1482.3	70.0
75	8.324	33.691	26.198	182.2	.250	1483.7	75.0
80	8.651	33.817	26.247	177.7	.259	1485.2	80.0
85	8.768	33.876	26.275	175.1	.268	1485.8	85.0
90	9.010	33.970	26.310	171.9	.276	1486.9	90.0
95	9.880	34.281	26.411	162.6	.285	1490.6	95.0
100	10.888	34.585	26.473	157.0	.293	1494.7	100.0
105	11.906	34.946	26.566	148.6	.300	1498.8	105.0
110	12.537	35.162	26.611	144.5	.308	1501.3	110.0
115	12.748	35.280	26.661	140.0	.315	1502.2	115.0
120	12.852	35.374	26.713	135.2	.322	1502.8	120.0
125	12.798	35.406	26.749	131.9	.328	1502.7	125.0
128	12.789	35.410	26.754	131.5	.332	1502.8	128.0

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
3	24.100	31.608	5.15	0.15		1.17		
13	23.830	31.635	5.16	0.16		1.22		
23	16.890	33.957	6.57	0.14		1.65		
35	9.320	33.143	6.83	0.49		3.51		
46	7.530	32.983	6.54	0.69		5.80		
56	7.450	33.306	5.94	0.85		7.03		
68	8.310	33.617	5.80	0.87		7.83		
80	8.130	33.694	5.85	0.85		7.92		
93	9.080	33.938	5.65	0.81		7.72		
105	11.730	34.843	5.41	0.50		5.38		
117	12.900	35.350	5.15	0.54		4.10		
128	12.770	35.401	4.89	0.71		6.02		

SIGMA-T

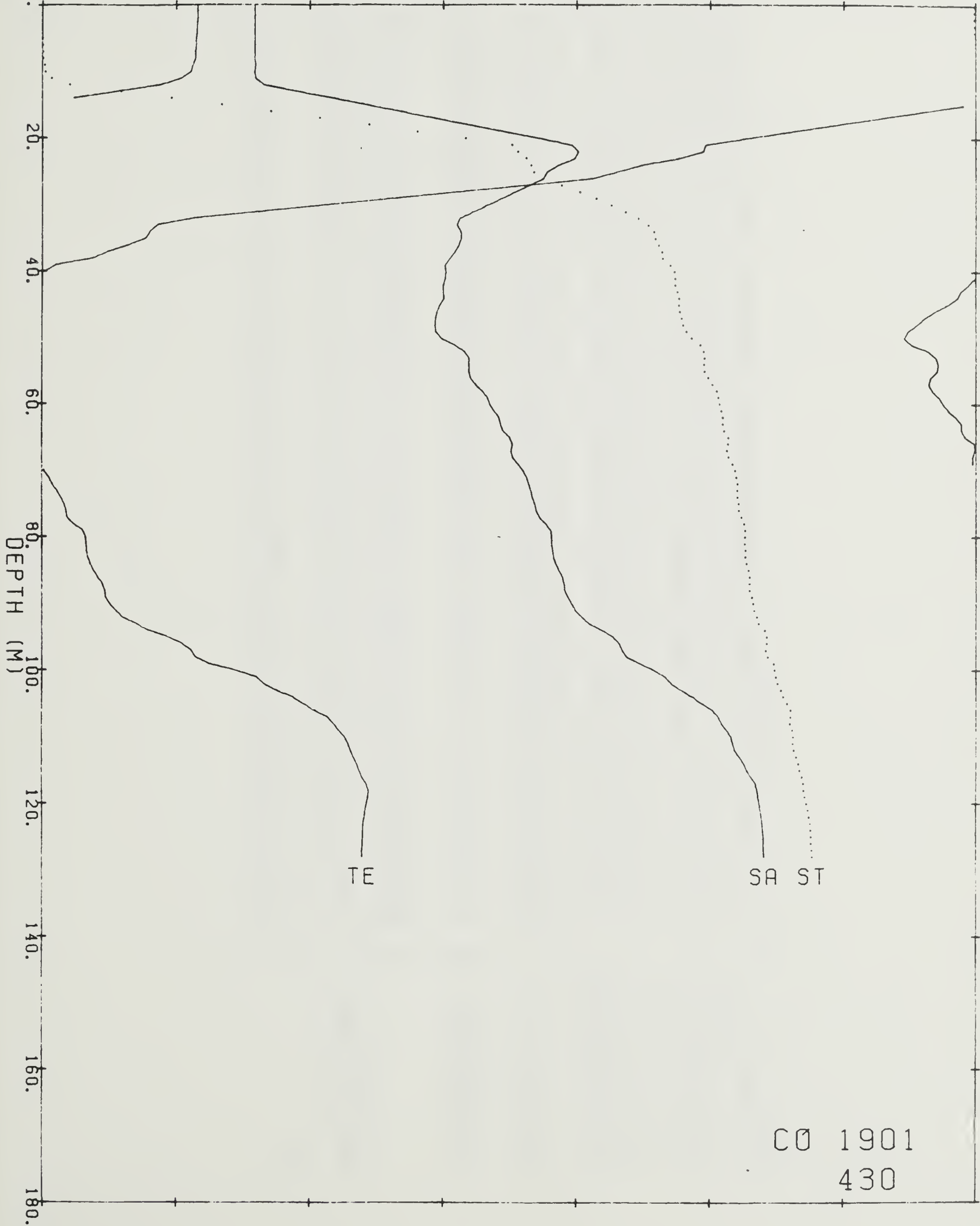
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SALINITY (PPT)

30. 31. 32. 33. 34. 35. 36. 37.

TEMPERATURE (DEG C)

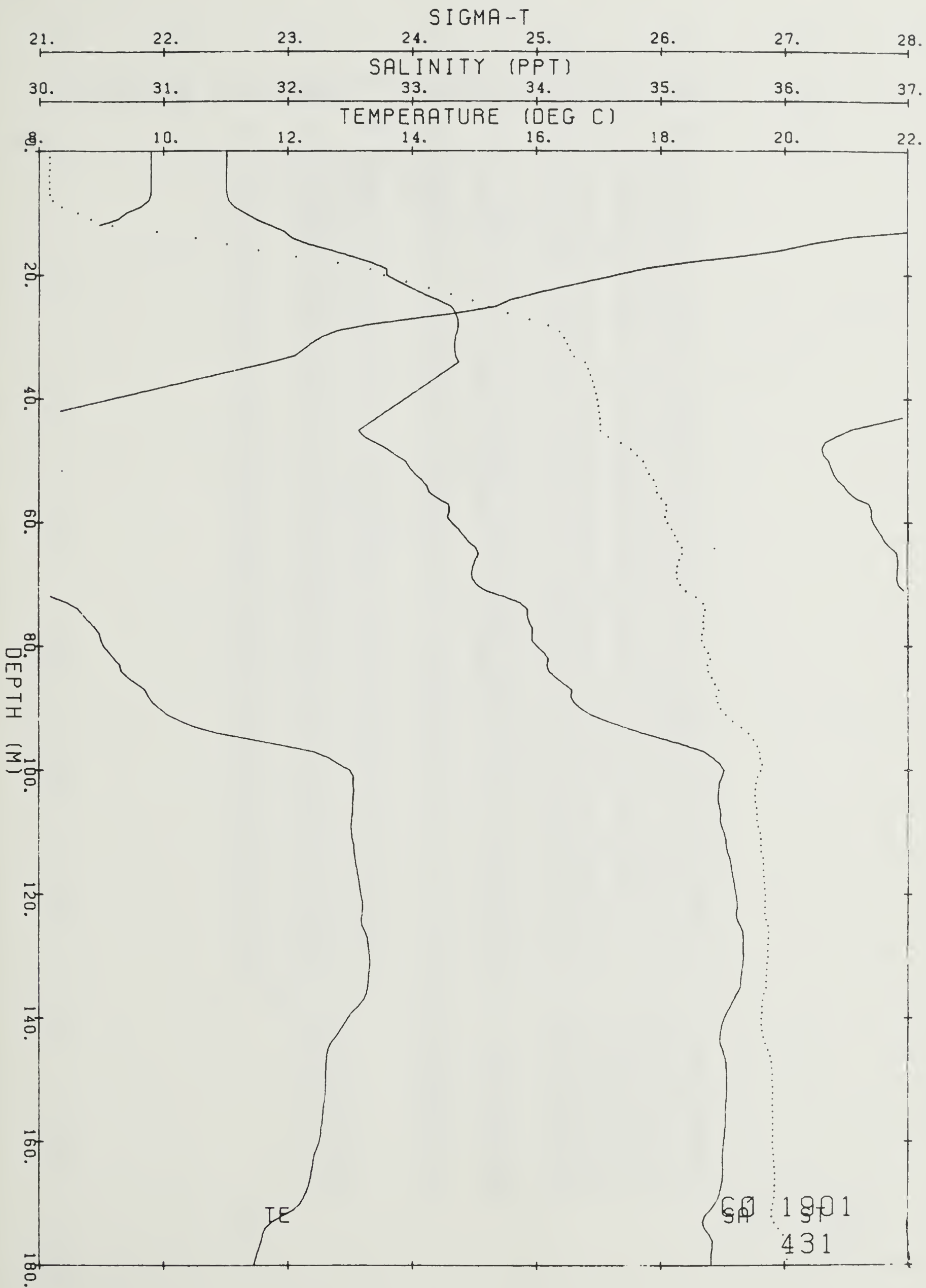
8. 10. 12. 14. 16. 18. 20. 22.



SHIP CO CRUISE 19-01 STATION 431 POSITION 39 29.21 N 72 16.85 W
 LOCAL TIME 1035 DATE 75/ 8/ 1 WIND = 11knots DIR = 270 DEPTH= 735M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	DTH
0	23.799	31.507	21.060	671.3	0.000	1528.0	0.0
5	23.796	31.504	21.058	671.6	.034	1528.1	5.0
10	23.401	31.657	21.288	649.8	.067	1527.4	10.0
15	20.420	32.156	22.485	535.2	.096	1520.2	15.0
20	17.296	32.794	23.753	414.2	.120	1512.1	20.0
25	15.355	33.314	24.596	334.0	.139	1506.9	25.0
30	12.535	33.345	25.202	276.2	.154	1497.7	30.0
35	11.320	33.299	25.394	258.0	.167	1493.5	35.0
40	9.192	32.932	25.469	250.8	.180	1485.4	40.0
45	7.064	32.564	25.492	248.6	.192	1476.8	45.0
50	6.710	32.944	25.838	215.7	.204	1476.0	50.0
55	7.027	33.135	25.946	205.5	.215	1477.6	55.0
60	7.430	33.320	26.036	197.1	.225	1479.5	60.0
65	7.809	33.532	26.149	186.5	.234	1481.3	65.0
70	7.834	33.517	26.134	188.1	.244	1481.5	70.0
75	8.708	33.926	26.323	170.3	.253	1485.4	75.0
80	9.041	34.004	26.332	169.6	.261	1486.9	80.0
85	9.427	34.158	26.390	164.3	.269	1488.6	85.0
90	9.934	34.357	26.461	157.7	.278	1490.8	90.0
95	11.393	35.031	26.728	132.8	.285	1496.9	95.0
100	13.001	35.507	26.786	127.7	.291	1503.1	100.0
105	13.040	35.463	26.744	131.9	.298	1503.3	105.0
110	13.018	35.509	26.784	128.2	.304	1503.4	110.0
115	13.097	35.564	26.811	125.8	.311	1503.8	115.0
120	13.181	35.607	26.827	124.4	.317	1504.2	120.0
125	13.193	35.642	26.852	122.2	.323	1504.4	125.0
130	13.315	35.668	26.847	122.9	.329	1504.9	130.0
135	13.279	35.639	26.832	124.4	.335	1504.8	135.0
140	12.961	35.507	26.794	128.0	.342	1503.7	140.0
145	12.638	35.494	26.849	122.9	.348	1502.6	145.0
150	12.603	35.531	26.885	119.7	.354	1502.6	150.0
155	12.554	35.520	26.886	119.7	.360	1502.5	155.0
160	12.495	35.504	26.885	119.9	.366	1502.4	160.0
165	12.365	35.498	26.906	118.0	.372	1502.0	165.0
170	12.189	35.431	26.888	119.7	.378	1501.4	170.0
175	11.586	35.391	26.972	111.7	.384	1499.4	175.0
180	11.445	35.408	27.012	108.1	.389	1499.0	180.0
185	11.265	35.333	26.987	110.5	.395	1498.3	185.0
190	11.023	35.351	27.045	105.0	.400	1497.6	190.0
195	10.845	35.314	27.049	104.7	.405	1497.0	195.0
200	10.642	35.269	27.050	104.6	.410	1496.3	200.0
225	9.764	35.207	27.154	95.0	.435	1493.5	225.0
250	8.759	35.130	27.259	85.1	.458	1490.0	250.0
275	8.199	35.118	27.337	77.9	.478	1488.3	275.0
300	7.772	35.098	27.385	73.6	.497	1487.1	300.0
325	7.305	35.098	27.453	67.3	.515	1485.7	325.0
350	6.543	35.030	27.505	62.2	.531	1483.0	350.0
375	6.372	35.069	27.559	57.4	.546	1482.8	375.0
400	6.087	35.029	27.565	57.0	.560	1482.0	400.0
425	5.996	35.055	27.597	54.2	.574	1482.1	425.0
450	5.811	35.049	27.616	52.6	.588	1481.7	450.0
475	5.623	35.039	27.631	51.3	.601	1481.4	475.0
500	5.457	35.036	27.649	49.7	.613	1481.1	500.0
600	4.976	35.026	27.699	45.7	.661	1480.8	600.0
700	4.740	34.974	27.685	47.8	.708	1481.4	700.0
730	4.673	34.977	27.695	47.1	.722	1481.6	730.0

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
3	23.710	31.532	5.11					
3	23.670	31.532	5.05	0.22		1.14		
5	23.690	31.531	5.16	0.23		1.09		
8	23.680	31.529	5.16	0.21		1.03		
16	20.550	31.959	5.41	0.17		1.14		
51	6.600	32.920	6.12	0.81		8.14		
82	8.710	33.793	5.68	0.78		7.66		
149	13.280	35.656	5.03	0.68		4.77		
269	8.420	35.143	3.50	1.65		15.74		
341	7.040	35.089	4.27	1.50		14.81		
693	4.800	35.033	4.69	0.88		6.95		
721	4.790	34.979	5.84	1.27		13.13		



SHIP CO CRUISE 19-01 STATION 433 POSITION 39 16.25 N 72 13.43 W
 LOCAL TIME 499 DATE 75/ 8/ 2 WIND = Oknots DIR =2500 DEPTH= 536M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	DTH
0	24.711	31.793	21.008	676.2	0.000	1530.6	0.0
5	24.650	32.839	21.816	599.0	.032	1531.7	5.0
10	24.702	33.268	22.124	569.6	.061	1532.3	10.0
15	24.200	34.170	22.956	490.3	.088	1532.2	15.0
20	22.355	34.769	23.944	396.1	.110	1528.4	20.0
25	21.309	34.898	24.333	359.2	.129	1525.9	25.0
30	20.176	34.884	24.628	331.2	.146	1523.0	30.0
35	19.751	34.795	24.672	327.2	.162	1521.8	35.0
40	18.335	34.871	25.091	287.4	.178	1518.0	40.0
45	17.948	34.938	25.238	273.5	.192	1517.0	45.0
50	15.328	34.568	25.567	242.2	.205	1508.7	50.0
55	12.380	34.530	26.152	186.7	.215	1499.1	55.0
60	13.175	34.762	26.174	184.7	.225	1502.1	60.0
65	13.131	34.679	26.118	190.1	.234	1502.0	65.0
70	12.445	34.460	26.085	193.4	.244	1499.5	70.0
75	11.063	34.409	26.304	172.5	.253	1494.7	75.0
80	11.298	34.635	26.437	160.0	.261	1495.9	80.0
85	11.563	34.772	26.495	154.7	.269	1497.1	85.0
90	11.713	34.893	26.561	148.6	.277	1497.8	90.0
95	11.673	34.979	26.635	141.7	.284	1497.9	95.0
100	11.878	35.214	26.779	128.2	.291	1498.9	100.0
105	12.042	35.286	26.804	126.0	.297	1499.7	105.0
110	12.106	35.295	26.798	126.7	.303	1500.0	110.0
115	12.150	35.341	26.826	124.2	.309	1500.3	115.0
120	12.259	35.430	26.874	119.8	.316	1500.9	120.0
125	12.200	35.435	26.889	118.5	.322	1500.7	125.0
130	12.133	35.479	26.936	114.1	.327	1500.6	130.0
135	12.093	35.477	26.942	113.7	.333	1500.6	135.0
140	12.007	35.469	26.953	112.8	.339	1500.4	140.0
145	11.847	35.460	26.976	110.7	.344	1499.9	145.0
150	11.806	35.452	26.978	110.6	.350	1499.8	150.0
155	11.779	35.436	26.971	111.4	.355	1499.8	155.0
160	11.658	35.405	26.969	111.6	.361	1499.4	160.0
165	11.560	35.420	27.000	108.9	.366	1499.2	165.0
170	11.408	35.320	26.950	113.6	.372	1498.6	170.0
175	10.981	35.302	27.015	107.5	.378	1497.1	175.0
180	10.746	35.300	27.056	103.7	.383	1496.4	180.0
185	10.610	35.276	27.061	103.2	.388	1496.0	185.0
190	10.284	35.220	27.075	101.9	.393	1494.8	190.0
195	9.635	35.189	27.162	93.5	.398	1492.5	195.0
200	9.407	35.197	27.206	89.4	.403	1491.7	200.0
225	8.205	35.105	27.326	78.1	.424	1487.5	225.0
250	7.750	35.085	27.378	73.3	.442	1486.2	250.0
275	7.378	35.073	27.423	69.3	.460	1485.1	275.0
300	6.796	35.048	27.485	63.5	.477	1483.2	300.0
325	6.338	35.051	27.549	57.5	.492	1481.8	325.0
350	6.066	35.039	27.575	55.2	.506	1481.1	350.0
375	5.899	35.058	27.612	52.0	.520	1480.9	375.0
400	5.622	35.025	27.620	51.3	.532	1480.1	400.0
425	5.419	35.034	27.652	48.4	.545	1479.7	425.0
450	5.373	35.034	27.658	48.2	.557	1479.9	450.0
475	5.277	35.032	27.668	47.4	.569	1480.0	475.0
500	5.241	35.034	27.674	47.2	.581	1480.2	500.0
525	5.183	35.040	27.686	46.3	.592	1480.4	525.0

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
1	24.600	32.059		0.03		0.85		
59	13.940	34.519	6.27	0.15		3.40		
61	13.280	34.461	6.27	0.21		3.72		
75	11.260	34.447	5.80	0.46		3.93		
122	12.560	35.482	4.76	0.83		6.27		
139	12.270	35.492	2.26	0.91		6.85		
187	10.550	35.343	3.60	1.43		11.95		
272	7.690	35.089	3.69	1.70		15.51		
322	6.420	35.048	4.41	1.57		14.29		
370	5.970	35.032	4.71	1.51		13.91		
457	5.310	35.013	5.05	1.43		14.02		
519	5.190	35.008	5.29	1.38		14.55		

SIGMA-T

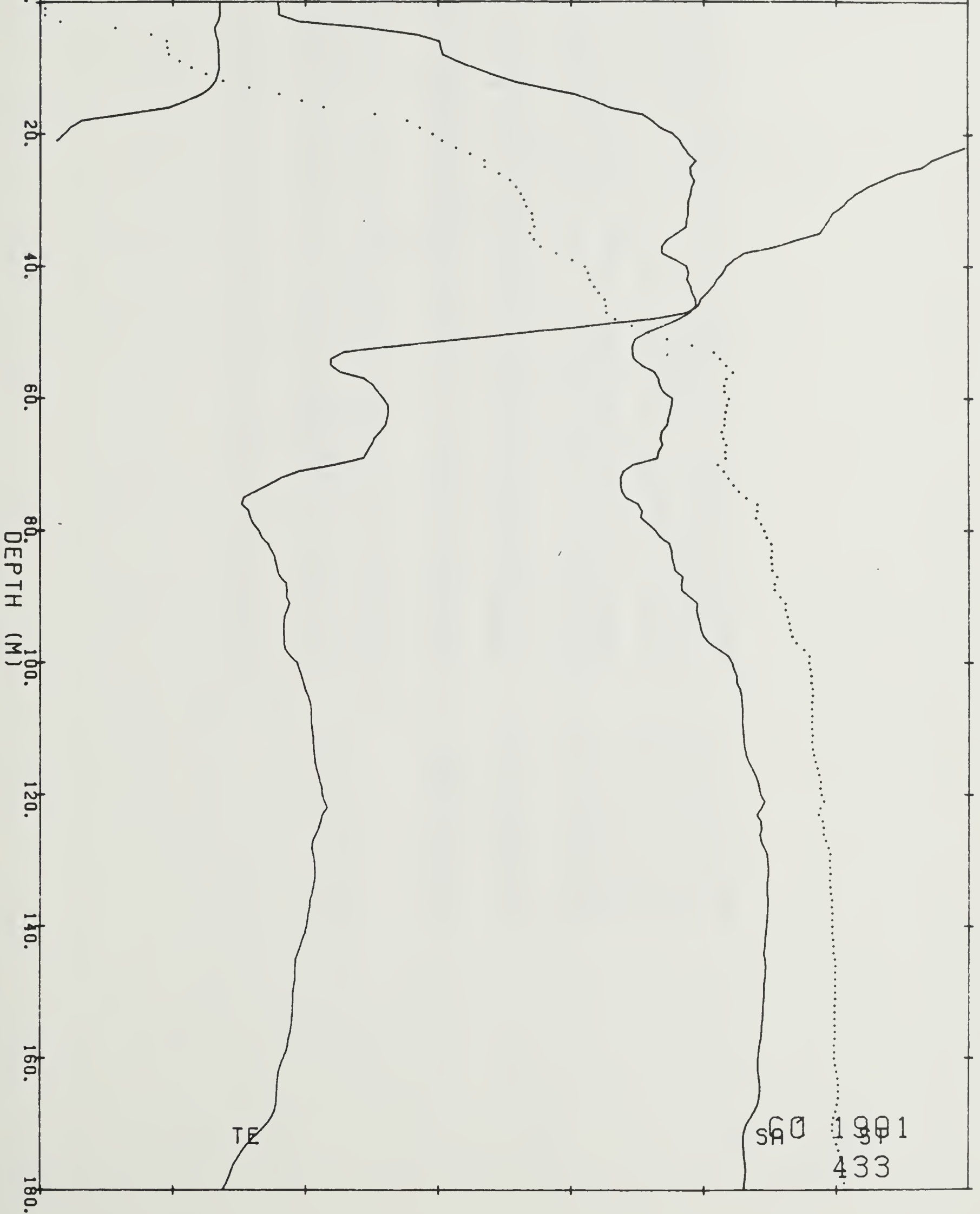
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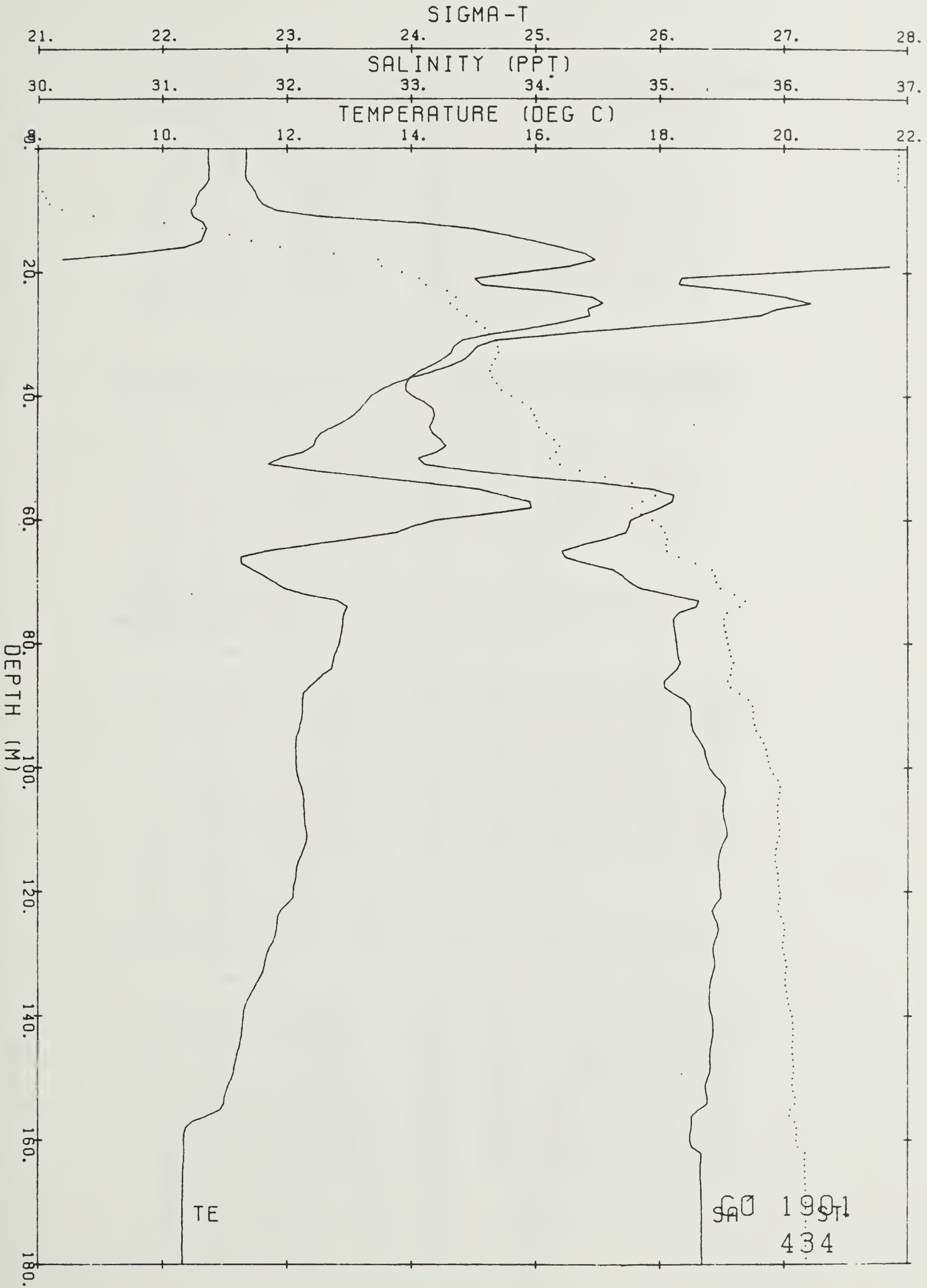
8. 10. 12. 14. 16. 18. 20. 22.



SHIP CO CRUISE 19-01 STATION 434 POSITION 39 18.05 N 72 20.33 W
 LOCAL TIME 801 DATE 75/ 8/ 2 WIND = 8knots DIR = 250 DEPTH= 214M

DTH	TEM	SAL	SGT	AND	DYN	SVL	DTH
0	24.729	31.673	20.912	685.4	0.000	1530.5	0.0
5	24.739	31.672	20.908	686.0	.034	1530.6	5.0
10	24.451	31.905	21.169	661.1	.068	1530.2	10.0
15	24.620	33.995	22.698	514.9	.097	1533.0	15.0
20	20.017	33.882	23.906	399.7	.120	1521.2	20.0
25	20.436	34.542	24.298	362.5	.139	1523.2	25.0
30	16.407	33.637	24.607	333.0	.157	1510.6	30.0
35	14.658	33.162	24.629	331.0	.173	1504.6	35.0
40	13.344	33.014	24.787	316.0	.189	1500.2	40.0
45	12.737	33.147	25.010	294.9	.205	1498.4	45.0
50	11.907	33.058	25.099	286.5	.219	1495.5	50.0
55	15.097	34.947	25.911	209.8	.232	1508.5	55.0
60	14.381	34.763	25.924	208.6	.242	1506.1	60.0
65	11.673	34.213	26.040	197.4	.252	1496.4	65.0
70	11.798	34.754	26.437	159.9	.261	1497.6	70.0
75	12.917	35.147	26.524	151.9	.269	1502.0	75.0
80	12.833	35.135	26.532	151.3	.277	1501.8	80.0
85	12.569	35.091	26.550	149.7	.284	1500.9	85.0
90	12.247	35.241	26.729	132.7	.291	1500.1	90.0
95	12.150	35.300	26.794	126.7	.298	1499.9	95.0
100	12.151	35.403	26.874	119.3	.304	1500.1	100.0
105	12.268	35.515	26.938	113.4	.310	1500.7	105.0
110	12.310	35.540	26.949	112.5	.315	1501.0	110.0
115	12.190	35.467	26.916	115.7	.321	1500.6	115.0
120	12.100	35.489	26.950	112.5	.327	1500.4	120.0
125	11.840	35.462	26.979	109.9	.332	1499.5	125.0
130	11.677	35.431	26.986	109.3	.338	1499.0	130.0
135	11.494	35.400	26.996	108.4	.343	1498.4	135.0
140	11.293	35.419	27.049	103.6	.348	1497.8	140.0
145	11.228	35.406	27.050	103.5	.354	1497.7	145.0
150	11.106	35.381	27.053	103.3	.359	1497.3	150.0
155	10.927	35.311	27.032	105.4	.364	1496.6	155.0
160	10.337	35.241	27.082	100.6	.369	1494.5	160.0
165	10.319	35.326	27.152	94.1	.374	1494.6	165.0
170	10.309	35.334	27.160	93.5	.379	1494.7	170.0
175	10.311	35.336	27.161	93.5	.383	1494.8	175.0
180	10.312	35.338	27.162	93.4	.388	1494.9	180.0
185	10.305	35.334	27.160	93.7	.393	1494.9	185.0
190	10.253	35.306	27.148	95.0	.397	1494.8	190.0
195	10.167	35.298	27.156	94.3	.402	1494.5	195.0
200	10.073	35.318	27.188	91.3	.407	1494.3	200.0
203	10.042	35.300	27.180	92.2	.410	1494.2	203.0

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
3	24.690	31.636	5.04			0.90		
20	24.200	34.378	5.14	0.05		1.12		
38	13.380	33.303	6.95	0.22		1.43		
57	13.700	34.711	6.17	0.20		3.61		
75	11.080	34.361	5.72	0.52		5.42		
93	12.810	35.068	5.47	0.40		4.62		
103	12.170	35.391	4.59	0.92		7.81		
111	11.780	35.468	4.33	1.08		8.60		
146	11.150	35.417	3.79	1.28		10.73		
167	10.300	35.322	3.35	1.57		13.28		
182	10.280	35.309	3.38	1.57		13.49		
199	10.050	35.282	3.35	1.58		13.38		



SHIP CO CRUISE 19-01 STATION 381 POSITION 39 91.83 N 73 74.33 W
 LOCAL TIME 2356 DATE 75/ 7/19 DEPTH= 31M

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
0		31.058	5.79	0.42		2.92		
4	21.690	31.093	5.83	0.24		3.77		
10		31.572	6.17	0.15		1.38		
15	10.820	32.131	5.56	0.80		5.21		
11		32.321	4.91	1.10		7.50		
25	8.870	32.309	4.69	1.00		7.60		
28		32.510	5.03	0.91		8.24		
29	7.750	32.517	5.03	0.93		8.55		

SHIP CO CRUISE 19-01 STATION 382 POSITION 39 64.83 N 73 74.17 W
 LOCAL TIME 0428 DATE 75/ 7/20 DEPTH= 26M

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
1		31.305	5.46	0.30		5.10		
3	22.990	31.304	5.55	0.33		4.94		
6		31.304	5.49	0.30		4.83		
8	22.930	31.334	5.52	0.38		5.12		
11		31.320	5.54	0.36		5.45		
15	22.880	31.310	5.56	0.30		6.52		

SHIP CO CRUISE 19-01 STATION 383 POSITION 38 82.33 N 72 21.00 W
 LOCAL TIME 1815 DATE 75/ 7/21 DEPTH=2469M

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
1	23.180	35.599	5.39	0.02		1.48		
78	15.240	36.168	5.34	0.40		3.16		
782	5.280	35.020	5.49	1.26		12.55		
1077	4.430	35.001	6.09	1.20		12.39		
1255	4.210	35.073	6.15	1.10		12.12		
1409	4.050	34.982	6.35	1.15		12.12		
1548	3.940	34.980	6.60	1.16		12.55		
1711	3.820	34.976		1.16		13.44		
1862	3.700	34.984	6.47	1.17		13.92		
2179	3.460	34.971	6.43	1.20		16.36		
2325	3.290	34.964	6.41	1.19		16.38		
2463	2.950	34.961	6.38	1.18		17.93		

SHIP CO CRUISE 19-01 STATION 384 POSITION 38 83.17 N 71 61.82 W
 LOCAL TIME 1126 DATE 75/ 7/22 DEPTH=2617M

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
1	23.300	35.788	5.22	0.03		1.06		
293	15.150	36.164	5.34	0.42		3.28		
733	6.070	35.040	4.69	1.26		13.72		
1073	4.490	35.011	5.96	1.21		12.33		
1423	4.070	34.997	6.15	1.18		12.72		
1606	2.880	34.991	6.35	1.19		13.17		
1779	3.810	34.986	6.25	1.18		13.50		
1963	3.670	34.973	6.25	1.20		14.39		
2164	3.430	34.974	6.28	1.21		15.67		
2340	3.250	34.969	6.31	1.20		17.45		
2579	2.650	34.935	6.25	1.17		20.78		

SHIP CO CRUISE 19-01 STATION 385 POSITION 39 8.67 N 71 89.17 W
 LOCAL TIME 0041 DATE 75/ 7/23 DEPTH=2231M

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
8		35.492	5.55	0.02		2.26		
26	19.210	35.023	5.98	0.02		1.67		
54		34.989	5.93	0.12		3.23		
106	15.090	34.983	5.39	0.35		3.39		
219		34.977	5.42	0.36		3.39		
327	14.930	34.967	5.45	0.36		3.50		
397		35.505	3.68	1.22		10.38		
748	5.150		5.44	1.23		12.75		
937		36.068	6.01	1.22		12.10		
1128	4.260		6.13	1.24		12.21		
1534		36.147	6.29	1.28		12.80		
1771	3.410		6.36	1.23		16.14		

SHIP CO CRUISE 19-01 STATION 386 POSITION 39 14.67 N 72 0.00 W
 LOCAL TIME 0448 DATE 75/ 7/22 DEPTH=2180M

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
3		35.379	5.21	0.03		1.70		
8		35.466	5.23	0.02		1.65		
26		35.856	5.82	0.02		1.60		
54	15.300	36.108	6.09	0.06		2.88		
109		36.146	5.33	0.41		3.30		
214	15.030	36.126	5.37	0.42		3.25		
301		35.935	5.49	0.57		4.58		
395	9.480	35.221	3.33	1.24		12.04		
755		34.998	5.77	1.21		12.41		
1013	4.310	34.987	5.64	1.22		11.99		
1268		34.977	6.20	1.21		12.79		
2031	3.610	34.967	6.34	1.24		15.77		

SHIP CO CRUISE 19-01 STATION 390 POSITION 39 35.67 N 71 28.82 W
 LOCAL TIME 2315 DATE 75/ 7/24 DEPTH=2490M

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
2	23.790	33.034	5.23	0.11		0.91		
39	14.920	33.958	6.70	0.15		1.76		
68	9.950	34.110	5.82	0.64		6.25		
87	11.530	34.809	5.35	0.65		6.41		
126	12.730	35.514	4.98	0.70		5.66		
670	4.590	34.813	5.44	0.75		4.06		
988	4.140	34.983	6.19	1.19		11.97		
1342	3.880	34.975	6.24	1.18		12.18		
1701	3.650	34.976	6.29	1.19		13.57		
2087	3.310	34.970	6.31	1.19		14.42		
2375	2.770	34.920	5.19	1.11				
2454	2.510	34.930	6.42	1.17		11.16		

SHIP CO CRUISE 19-01 STATION 421 POSITION 39 10.17 N 72 95.83 W
 LOCAL TIME 1827 DATE 75/ 7/30 DEPTH= 84M

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
2	24.580	31.845	5.09	0.17		0.80		
6	24.520	31.838	5.10	0.06		0.75		
10	24.410	31.922	5.05	0.06		0.80		
29	12.200	33.667	7.14	0.23		2.04		
44	6.710	32.962	6.17	0.80		8.21		
48	6.680	32.971	6.09	0.83		8.64		
55	6.740	32.993	5.84	0.86		8.80		
62	6.780	33.012	5.83	0.88		9.17		
69	6.860	33.063	5.94	0.87		8.49		
74	7.570	33.224	5.94	0.83		8.90		
79	8.960	33.844	5.69	0.78		8.42		

SHIP CO CRUISE 19-01 STATION 423 POSITION 39 02.8 N 72 45.5 W
 LOCAL TIME 2351 DATE 75/ 7/30 DEPTH= 161M

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
4	24.680	33.717	5.19	0.02		1.64		
26	20.410	34.966	6.79			1.81		
38	19.410	35.096	6.29			2.13		
46	16.740	35.092	5.69	0.06		2.74		
56	14.200	34.992	6.12	0.08		3.34		
65	12.880	34.999	5.80	0.16		4.10		
81	12.690	35.243	5.08	0.42		4.32		
98	12.760	35.497	4.91	0.73		5.58		
116	12.650	35.537	4.97	0.71		5.47		
137	11.520	35.453	4.28	1.07		9.14		
154	10.670	35.348	3.62	1.31		12.31		

SHIP CO CRUISE 19-01 STATION 432 POSITION 39 40.17 N 72 13.17 W
 LOCAL TIME 2038 DATE 75/ 8/ 1 DEPTH=1196M

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
4	24.230	31.815	5.16			0.92		
21	18.110	32.969	6.41	0.17		1.03		
53	7.900	33.278	5.81	0.13		6.35		
68	8.690	33.755	5.33	0.77		7.43		
113	13.080	35.572	4.83	0.70		4.88		
285	8.390	35.132	3.35	1.67		15.25		
368	6.490	35.045	4.37	1.54		14.49		
568	5.030	35.005	5.44	1.34		13.13		
743	4.700	34.996	5.62	1.29		12.64		
1015		34.980		1.24		12.48		
1217	4.170	34.972	5.98	1.23		12.64		

SHIP CO CRUISE 19-01 STATION 436 POSITION 39 35.83 N 72 44.67 W
 LOCAL TIME 1241 DATE 75/ 8/ 2 DEPTH= 143M

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
2	24.660	31.676	5.18	0.03		0.91		
3	24.690	31.672	5.15	0.04		0.70		
5	24.690	31.672	5.11	0.04		0.70		
30	16.660	33.459	6.69	0.14		1.12		
60	7.950	33.387	6.10	0.76		6.77		
82	8.780	33.867	5.81	0.77		7.55		
97	12.850	35.263	5.49	0.40		3.96		
109	12.840	35.413	5.20	0.60		4.39		
121	13.120	35.683	5.02	0.68		4.98		
125	12.970	35.659	5.07	0.69		5.30		
131	12.330	35.560	4.75	0.83		6.58		

SHIP CO CRUISE 19-01 STATION 437 POSITION 39 44.83 N 72 20.17 W
 LOCAL TIME 1720 DATE 75/ 8/ 2 DEPTH= 834M

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
0	24.570	32.084	4.71	0.13		0.96		
7	23.130	32.046	4.79	0.15		0.96		
15	17.740	33.050	6.40	0.15		1.78		
25	13.340	33.697	6.85	0.23		1.66		
43	7.220	33.098	5.44	0.82		5.73		
56	8.620	33.715	5.32	0.81		7.60		
87	13.010	35.488	4.46	0.67		4.50		
149	12.240	35.530	4.53	0.88		5.94		
329	6.990	35.110	3.41	1.60		14.77		
558	5.030	35.042	5.35	1.37		12.85		
806	4.510	35.015	5.86	1.26		12.20		

SHIP CO CRUISE 19-01 STATION 438 POSITION 39 52.33 N 71 93.50 W
 LOCAL TIME 2207 OATE 75/ 8/ 2 DEPTH= 642M

OTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
4	23.910	32.490	5.27	0.15		1.26		
43	10.920	34.129	6.58	0.36		4.98		
101	13.130	35.635	5.01	0.76		5.14		
165	11.950	35.505	4.60	1.01		7.39		
222	10.240	35.303	3.24	1.62		13.57		
276	8.420	35.117	3.29	1.78		16.80		
330	7.510	35.084	3.72	1.72		16.08		
368	6.710	35.066	4.25	1.64		14.94		
439	5.760	35.042	4.89	1.52		14.12		
488	5.290	35.022	5.14	1.45		13.46		
544	5.120	35.015	5.25	1.42		12.97		
622	4.900	35.010	5.41	1.36		13.08		

SHIP CO CRUISE 19-01 STATION 439 POSITION 39 59.32 N 72 4.17 W
 LOCAL TIME 0300 DATE 75/ 8/ 3 DEPTH= 247M

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
3	25.100	31.980	5.06	0.14		1.26		
23	18.210	33.979	6.53	0.12		1.75		
45	9.150	33.645	6.33	0.54		4.98		
67	9.920	34.277	5.32	0.80		8.04		
88	13.120	35.478	4.82	0.68		4.71		
110	12.970	35.551	5.03	0.72		4.87		
129	12.500	35.535	4.91	0.84		5.69		
147	12.230	35.511	4.71	0.92		6.57		
171	11.890	35.489	4.36	1.07		7.93		
185	11.230	35.421	3.64	1.38		11.05		
215	9.680	35.221	3.25	1.67		14.77		
238	8.640	35.144	3.35	1.73		15.81		

SHIP CO CRUISE 19-01 STATION 440 POSITION 39 70.17 N 72 16.48 W
 LOCAL TIME 0536 OATE 75/ 8/ 3 DEPTH= 128M

OTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
4	23.380	31.637	5.33	0.19		0.87		
13	18.900	32.517	6.24	0.16		1.08		
23	12.460	33.031	7.10	0.26		1.41		
34	9.810	33.113	6.88	0.58		2.33		
45	7.840	32.022	6.27	0.71		4.60		
56	7.210	33.047	6.14	0.81		5.30		
68	7.530	33.115	6.01	0.81		6.11		
79	8.310	33.557	5.74	0.78		7.47		
89	9.380	33.972	5.57	0.74		7.68		
101	10.000	34.234	5.47	0.70		7.09		
111		34.543	5.35	0.63		6.71		
118	12.050	35.137	4.77	0.76		8.60		

SHIP CO CRUISE 19-01 STATION 441 POSITION 39 60.00 N 72 41.17 W
 LOCAL TIME 1151 OATE 75/ 8/ 3 DEPTH= 391M

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
3	25.310	31.237	5.05	0.17		0.32		
15	6.910	31.000	42.00	5.18	0.09			
30	14.670	33.669	6.84	0.17		1.62		
42	9.890	33.191	6.66	0.45		2.87		
70	7.310	33.100	6.03	0.79		6.60		
108	9.530	34.033	5.60	0.74		7.68		
152	11.810	35.427	4.42	0.97		8.12		
196	10.750	35.387	3.84	1.24		11.14		
328	7.910	35.173	4.26	1.42		14.34		
370	7.170	35.116	4.46	1.42		14.50		
384	6.490	35.072	4.67	1.40		14.61		

SHIP CO CRUISE 19-01 STATION 442 POSITION 39 67.17 N 72 46.33 W
LOCAL TIME 1507 DATE 75/ 8/ 3 DEPTH= 154M

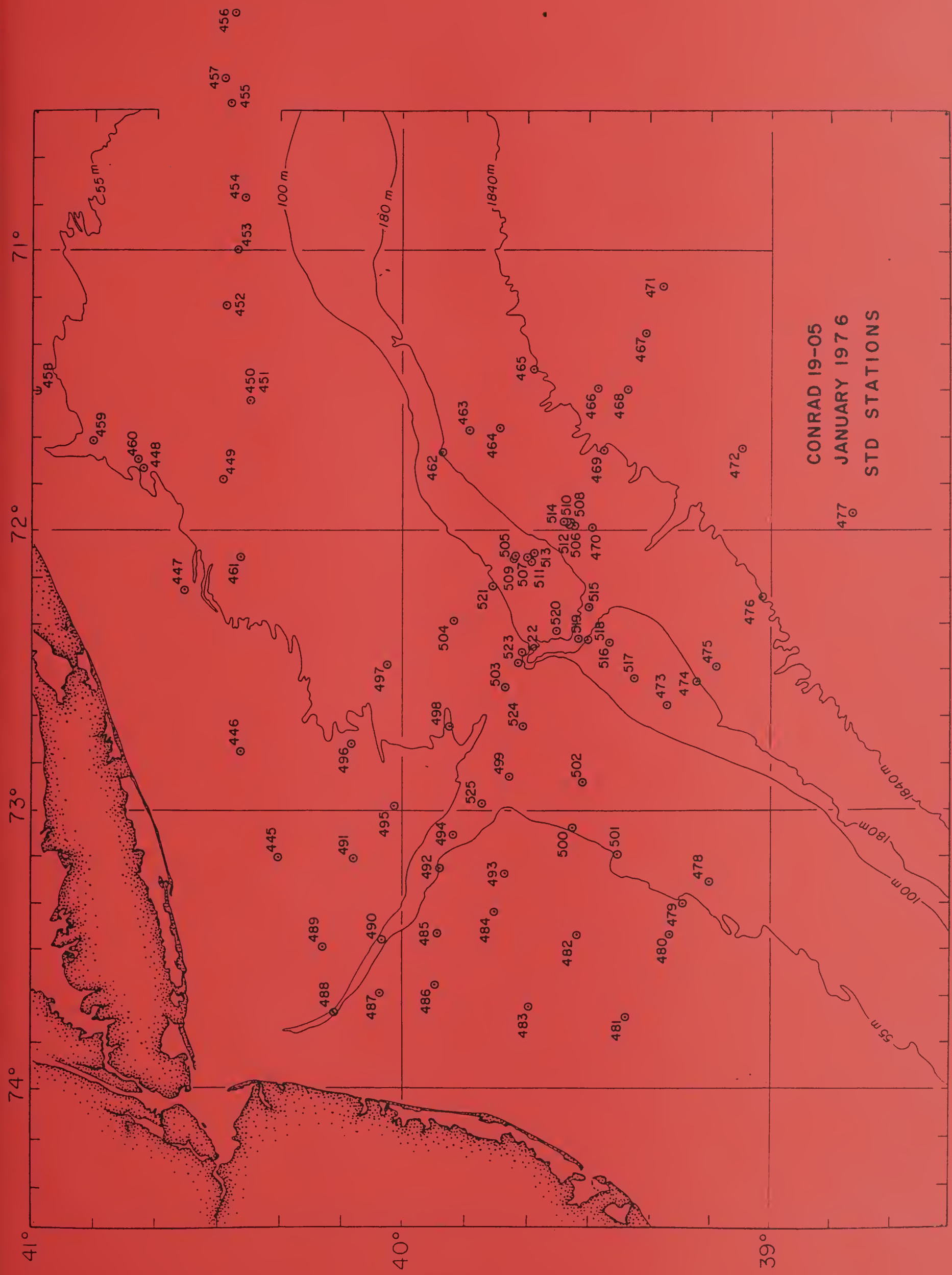
DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
0	25.610	31.197	5.10	0.18		0.27		
4	24.490	31.356	5.18	0.14		0.47		
13	20.520	31.979	5.85	0.17		0.97		
21	15.280	33.370	6.43	0.17		1.29		
28	11.160	33.249	6.72	0.38		2.70		
47	6.870	32.917	6.31	0.79		6.62		
63	6.930	32.982	6.04	0.84		7.86		
85	8.350	33.610	5.65	0.84		8.93		
104	8.710	33.832	5.50	0.86		9.42		
131	11.260	35.174	4.59	0.95		9.09		
143	11.300	35.216	4.38	0.98		8.99		

SHIP CO CRUISE 19-01 STATION 443 POSITION 39 67.17 N 72 48.17 W
LOCAL TIME 1703 DATE 75/ 8/ 3 DEPTH= 90M

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
1	26.020	31.188	4.73	0.17		0.08		
8	24.580	31.423	5.13	0.08		0.11		
15	19.690	32.336	6.06	0.13		0.15		
20	16.290	32.977	6.04	0.18		0.18		
26	13.630	33.152	7.15	0.20		0.18		
32	8.950	33.019	7.23	0.39		0.24		
39	6.990	32.855	6.11	0.75		7.64		
67	7.470	33.241	5.84	0.85		8.72		
79	8.530	33.726	5.50	0.84		9.74		

SHIP CO CRUISE 19-01 STATION 444 POSITION 39 71.67 N 72 58.83 W
LOCAL TIME 1940 DATE 75/ 8/ 3 DEPTH= 77M

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
3	26.210	31.273	5.06	0.18		0.65		
7	25.360	31.276	5.09	0.19		0.71		
13	22.300	31.762	5.69	0.18		1.14		
21	12.930	33.152	7.34	0.27		1.74		
27	10.240	33.071	6.86	0.47		2.29		
36	7.470	31.858	6.51	0.68		3.26		
48	6.810	32.889	6.25	0.84		7.94		
61	6.840	32.974	5.96	0.90		10.56		
71	6.860	32.987	5.95	0.91		10.83		



CONRAD 19-05
JANUARY 1976
STD STATIONS

CONRAD 19-05

Cruise dates: 3 January 1976 - 21 January 1976

Station numbers (total of 81): 445-525

STD and bottle data (54): 458-476, 478-480, 494-525

Bottle data only (26): 445-449, 451-457, 477, 481-493

No STD or bottle data (1): 450

SHIP CO CRUISE 19-05 STATION 458 POSITION 41 .30 N 71 30.11 W
 LOCAL TIME 2220 DATE 76/ 1/ 7 WIND = knots DIR = DEPTH= 53M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	DTH
0	6.393	31.632	24.844	309.6	0.000	1472.2	0.0
5	6.393	31.632	24.844	309.6	.015	1472.3	5.0
10	6.404	31.687	24.886	305.7	.031	1472.5	10.0
15	6.750	31.994	25.084	286.9	.046	1474.4	15.0
20	6.915	32.124	25.165	279.3	.060	1475.3	20.0
25	7.467	32.279	25.213	274.9	.074	1477.7	25.0
30	7.385	32.319	25.256	270.8	.087	1477.5	30.0
35	7.401	32.332	25.264	270.2	.101	1477.7	35.0
40	7.558	32.493	25.368	260.3	.114	1478.6	40.0
45	8.101	32.689	25.445	253.1	.127	1481.0	45.0
50	8.102	32.708	25.460	251.8	.140	1481.1	50.0
53	8.104	32.715	25.465	251.4	.147	1481.2	53.0

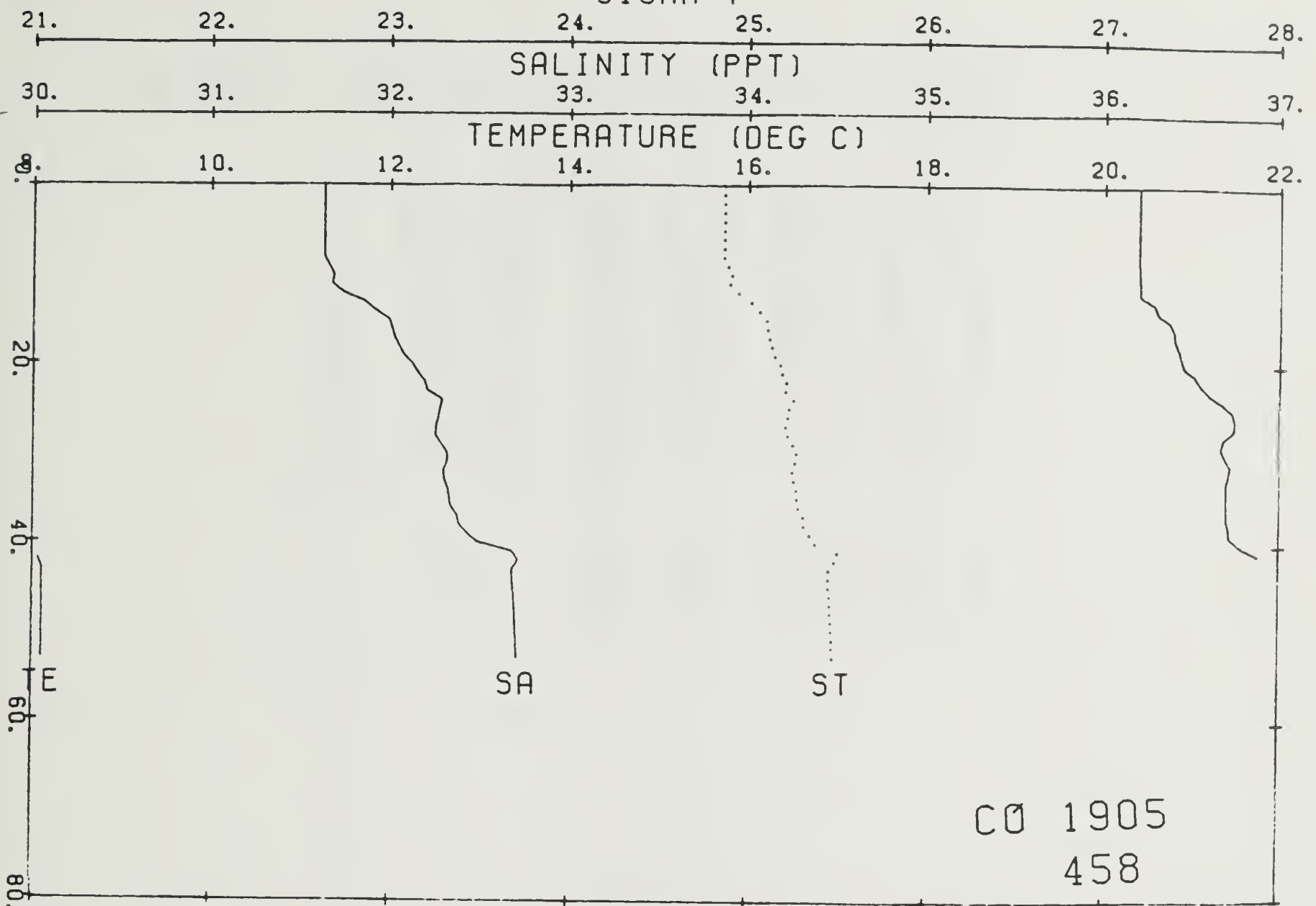
DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
0	6.360	31.511	6.96	0.77		8.24		
8	6.850	32.013	6.76	0.72		6.40		
18	7.470	32.128	6.74	0.73		6.30		
26	7.410	32.204	6.74	0.71		5.93		
46	8.110	32.664						

SHIP CO CRUISE 19-05 STATION 459 POSITION 40 50.87 N 71 40.91 W
 LOCAL TIME 142 DATE 76/ 1/ 8 WIND = 15knots DIR = 320 DEPTH= 63M

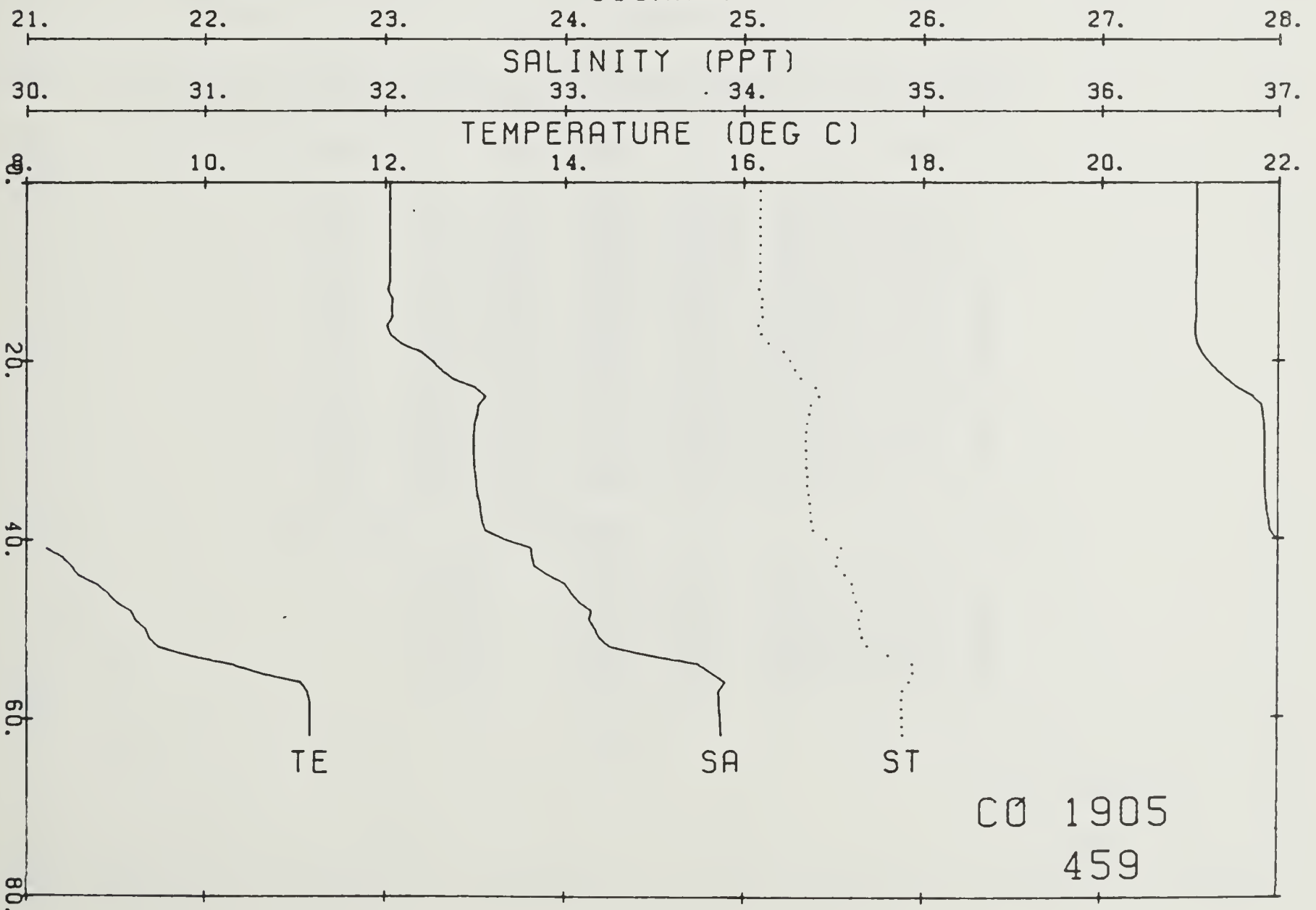
DTH	TEM	SAL	SGT	ANO	DYN	SVL	DTH
0	7.074	32.026	25.067	288.4	0.000	1475.4	0.0
5	7.074	32.026	25.067	288.4	.014	1475.5	5.0
10	7.074	32.026	25.067	288.5	.029	1475.6	10.0
15	7.072	32.040	25.078	287.5	.043	1475.7	15.0
20	7.208	32.258	25.232	273.0	.057	1476.6	20.0
25	7.815	32.514	25.349	262.0	.071	1479.4	25.0
30	7.855	32.489	25.323	264.4	.084	1479.6	30.0
35	7.858	32.513	25.342	262.8	.097	1479.7	35.0
40	7.984	32.660	25.439	253.6	.110	1480.5	40.0
45	8.792	32.999	25.584	240.0	.122	1484.1	45.0
50	9.343	33.167	25.629	235.9	.134	1486.4	50.0
55	10.618	33.821	25.925	207.9	.145	1492.0	55.0
60	11.166	33.867	25.864	213.9	.156	1494.1	60.0
62	11.163	33.872	25.868	213.6	.160	1494.1	62.0

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
0	7.060	31.913	6.91	0.71		6.28		
30	7.860	32.365	6.68	0.67		5.59		
45	8.940	32.705	6.66	0.63		6.12		
53	10.680	33.317	5.97	0.68		8.31		
59	11.160	33.797	6.96	0.71		6.21		

SIGMA-T



SIGMA-T



SHIP CO CRUISE 19-05 STATION 460 POSITION 40 43.68 N 71 45.11 W
 LOCAL TIME 450 DATE 76/ 1/ 8 WIND = knots DIR = DEPTH= 57M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	DTH
0	7.170	32.090	25.105	284.8	0.000	1475.9	0.0
5	7.170	32.090	25.105	284.9	.014	1476.0	5.0
10	7.165	32.083	25.100	285.4	.028	1476.0	10.0
15	7.194	32.154	25.152	280.5	.043	1476.3	15.0
20	7.193	32.259	25.235	272.7	.056	1476.5	20.0
25	7.384	32.360	25.288	267.7	.070	1477.5	25.0
30	7.461	32.369	25.284	268.1	.083	1477.9	30.0
35	7.478	32.392	25.300	266.7	.097	1478.1	35.0
40	7.460	32.434	25.336	263.4	.110	1478.1	40.0
45	7.671	32.487	25.348	262.3	.123	1479.1	45.0
50	8.151	32.750	25.485	249.4	.136	1481.4	50.0
55	8.270	32.757	25.473	250.6	.148	1481.9	55.0
56	8.271	32.757	25.473	250.6	.151	1482.0	56.0

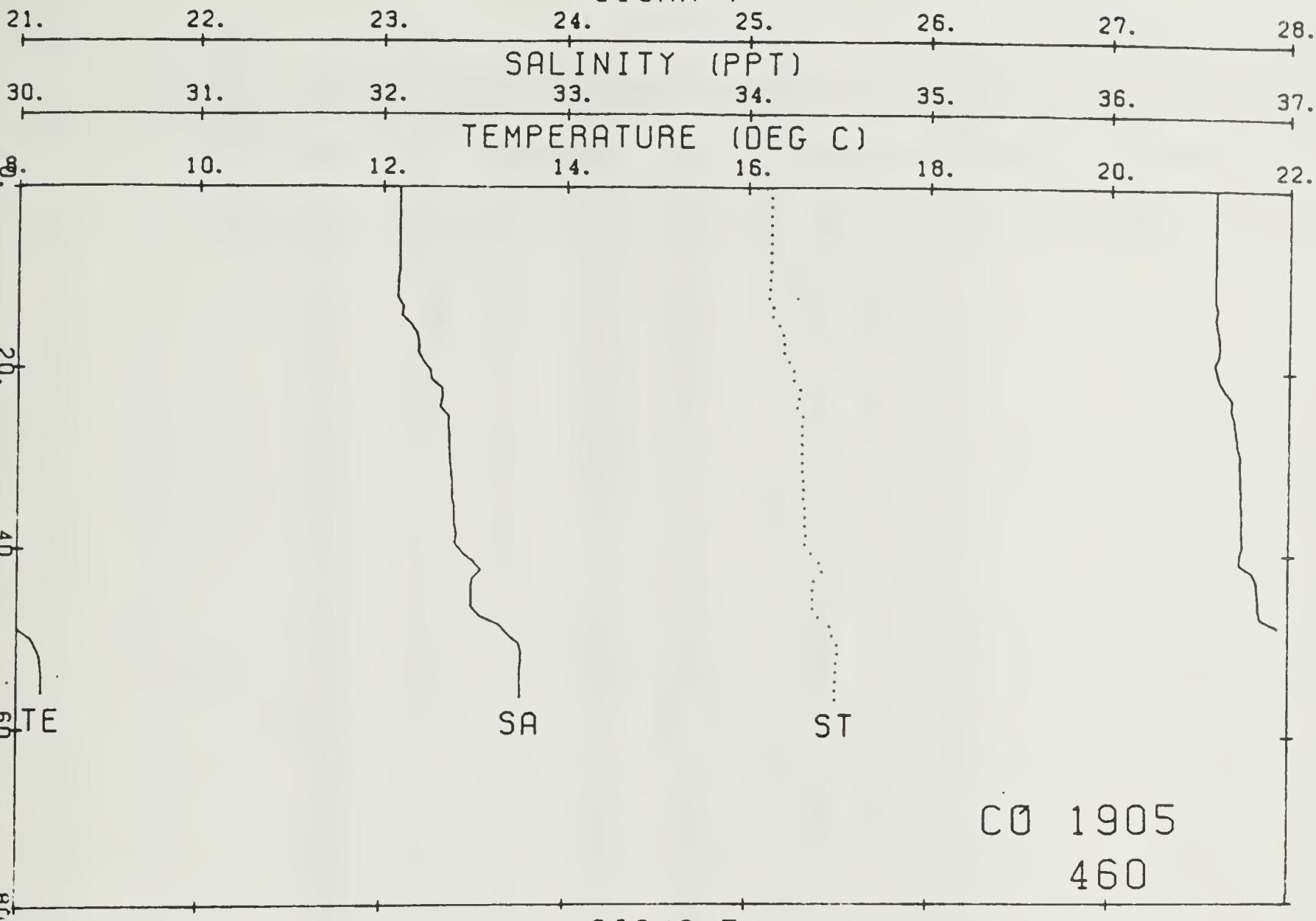
DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
0	7.170	31.957	6.18	0.73		6.56		
17	7.430	32.233	6.69	0.68		6.33		
30	7.490	32.249	6.88	0.68		6.37		
48	8.280	32.582	6.57	0.66		6.10		

SHIP CO CRUISE 19-05 STATION 461 POSITION 40 26.81 N 72 6.17 W
 LOCAL TIME 913 DATE 76/ 1/ 8 WIND = 14knots DIR = 350 DEPTH= 63M

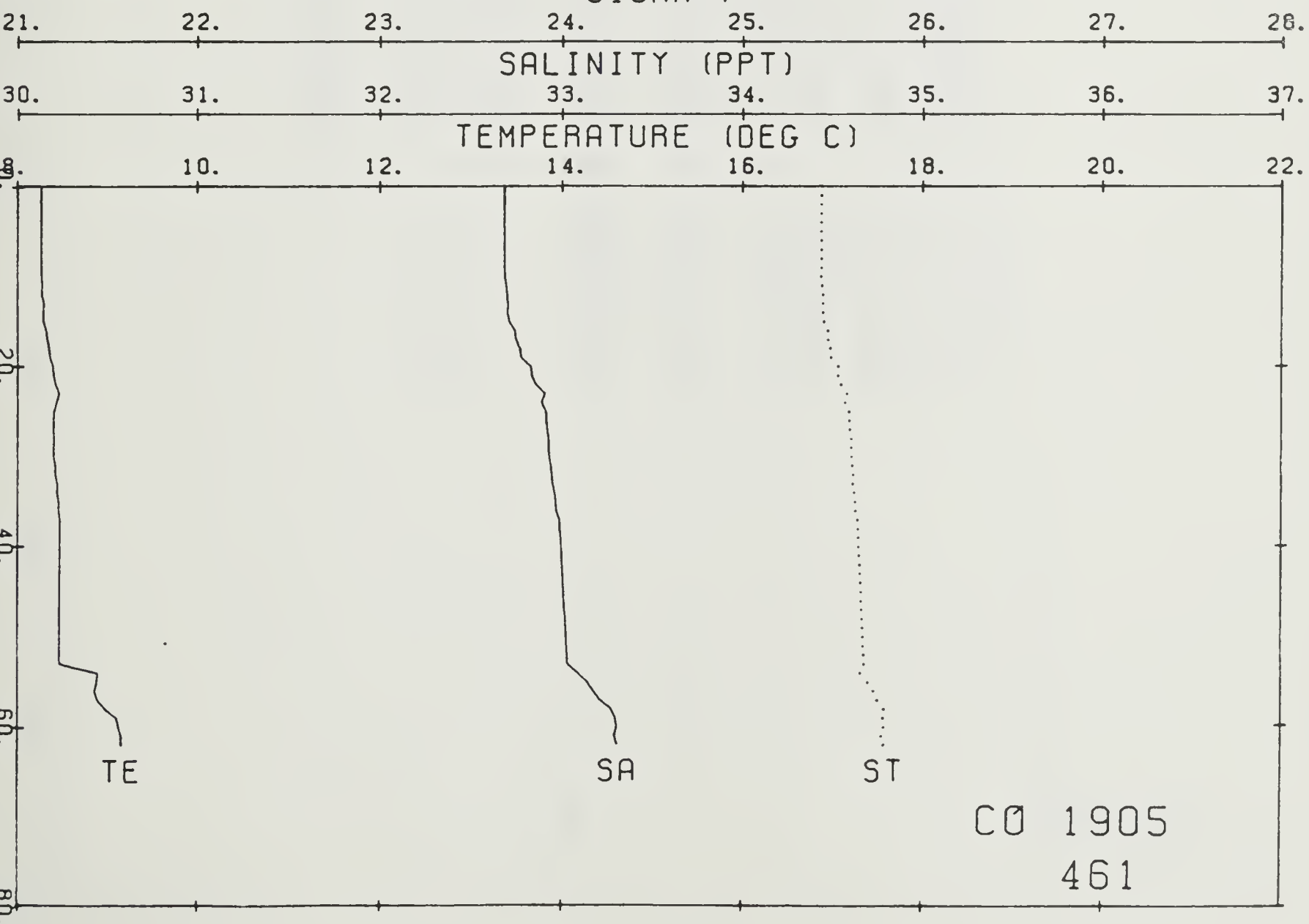
DTH	TEM	SAL	SGT	ANO	DYN	SVL	DTH
0	8.264	32.683	25.416	255.2	0.000	1480.9	0.0
5	8.264	32.683	25.416	255.3	.013	1481.0	5.0
10	8.269	32.686	25.418	255.2	.026	1481.1	10.0
15	8.288	32.709	25.433	253.8	.038	1481.3	15.0
20	8.392	32.830	25.512	246.3	.051	1481.9	20.0
25	8.403	32.913	25.576	240.4	.063	1482.2	25.0
30	8.404	32.933	25.591	239.0	.075	1482.3	30.0
35	8.458	32.968	25.611	237.3	.087	1482.6	35.0
40	8.474	32.997	25.631	235.4	.099	1482.8	40.0
45	8.471	33.010	25.642	234.5	.110	1482.9	45.0
50	8.469	33.024	25.653	233.5	.122	1483.0	50.0
55	8.892	33.141	25.680	231.1	.134	1484.8	55.0
60	9.137	33.306	25.770	222.6	.145	1486.0	60.0
62	9.158	33.307	25.768	222.9	.149	1486.1	62.0

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
1	8.260	32.570	6.64	0.60		5.88		
13	8.430	32.694	6.62	0.60		5.90		
27	8.470	32.821	6.64	0.58		5.52		
37	8.540	32.850	6.63	0.58		5.67		
49	9.060	32.935	6.47	0.58		5.81		
53	9.160	33.075	6.34	0.58		6.19		

SIGMA-T



SIGMA-T



SHIP CO CRUISE 19-05 STATION 462 POSITION 39 53.87 N 71 43.08 W
 LOCAL TIME 130 DATE 76/ 1/ 9 WIND = 30knots DIR = 320 DEPTH= 193M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	DTH
0	9.147	33.100	25.608	237.0	0.000	1484.8	0.0
5	9.147	33.100	25.608	237.1	.012	1484.9	5.0
10	9.147	33.100	25.608	237.1	.024	1485.0	10.0
15	9.147	33.100	25.608	237.2	.036	1485.0	15.0
20	9.151	33.105	25.611	237.0	.047	1485.1	20.0
25	9.135	33.096	25.606	237.5	.059	1485.2	25.0
30	9.135	33.096	25.606	237.6	.071	1485.2	30.0
35	9.149	33.103	25.610	237.4	.083	1485.4	35.0
40	9.122	33.098	25.610	237.4	.095	1485.4	40.0
45	9.146	33.100	25.608	237.7	.107	1485.5	45.0
50	9.250	33.162	25.640	234.8	.119	1486.1	50.0
55	10.574	33.827	25.938	206.7	.130	1491.9	55.0
60	11.181	34.073	26.021	199.0	.140	1494.4	60.0
65	12.220	34.546	26.195	182.8	.149	1498.7	65.0
70	13.649	34.892	26.177	184.7	.159	1504.0	70.0
75	13.792	34.975	26.212	181.6	.168	1504.7	75.0
80	13.927	35.030	26.226	180.4	.177	1505.3	80.0
85	13.921	35.020	26.220	181.1	.186	1505.3	85.0
90	13.909	35.017	26.220	181.3	.195	1505.4	90.0
95	13.912	35.055	26.249	178.7	.204	1505.5	95.0
100	14.051	35.065	26.227	180.9	.213	1506.1	100.0
105	14.199	35.211	26.309	173.3	.222	1506.8	105.0
110	14.349	35.302	26.347	169.9	.230	1507.5	110.0
115	14.515	35.337	26.338	170.9	.239	1508.1	115.0
120	14.327	35.413	26.438	161.6	.247	1507.7	120.0
125	14.314	35.423	26.448	160.7	.255	1507.8	125.0
130	14.254	35.436	26.471	158.7	.263	1507.7	130.0
135	14.230	35.456	26.492	156.9	.271	1507.7	135.0
140	14.226	35.472	26.505	155.8	.279	1507.8	140.0
145	14.174	35.471	26.515	154.9	.287	1507.7	145.0
150	14.121	35.475	26.529	153.7	.294	1507.6	150.0
155	14.077	35.482	26.544	152.4	.302	1507.5	155.0
160	14.034	35.534	26.593	147.9	.309	1507.6	160.0
165	13.931	35.598	26.665	141.2	.317	1507.4	165.0
170	13.909	35.602	26.672	140.6	.324	1507.4	170.0
175	13.750	35.624	26.723	136.0	.331	1507.0	175.0
180	13.533	35.586	26.739	134.6	.337	1506.3	180.0
185	13.327	35.556	26.758	132.8	.344	1505.7	185.0
190	12.332	35.441	26.868	122.2	.350	1502.3	190.0
190	12.332	35.441	26.868	122.2	.350	1502.3	190.0

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
9	9.160	33.116	6.23	0.57		5.31		
17	9.200	33.111	6.33	0.58		5.50		
54	12.120	34.362	5.90	0.43		4.57		
71	13.900	35.050	5.21	0.49		5.26		
94	14.670	35.318	5.01	0.72		5.31		
118	14.240	35.467	4.19	0.77		7.48		
145	14.080	35.506	4.26	0.92		7.96		
155	13.640	35.643	3.93	1.16		8.38		
175	12.450	35.553	3.79	1.42		10.16		

SIGMA-T

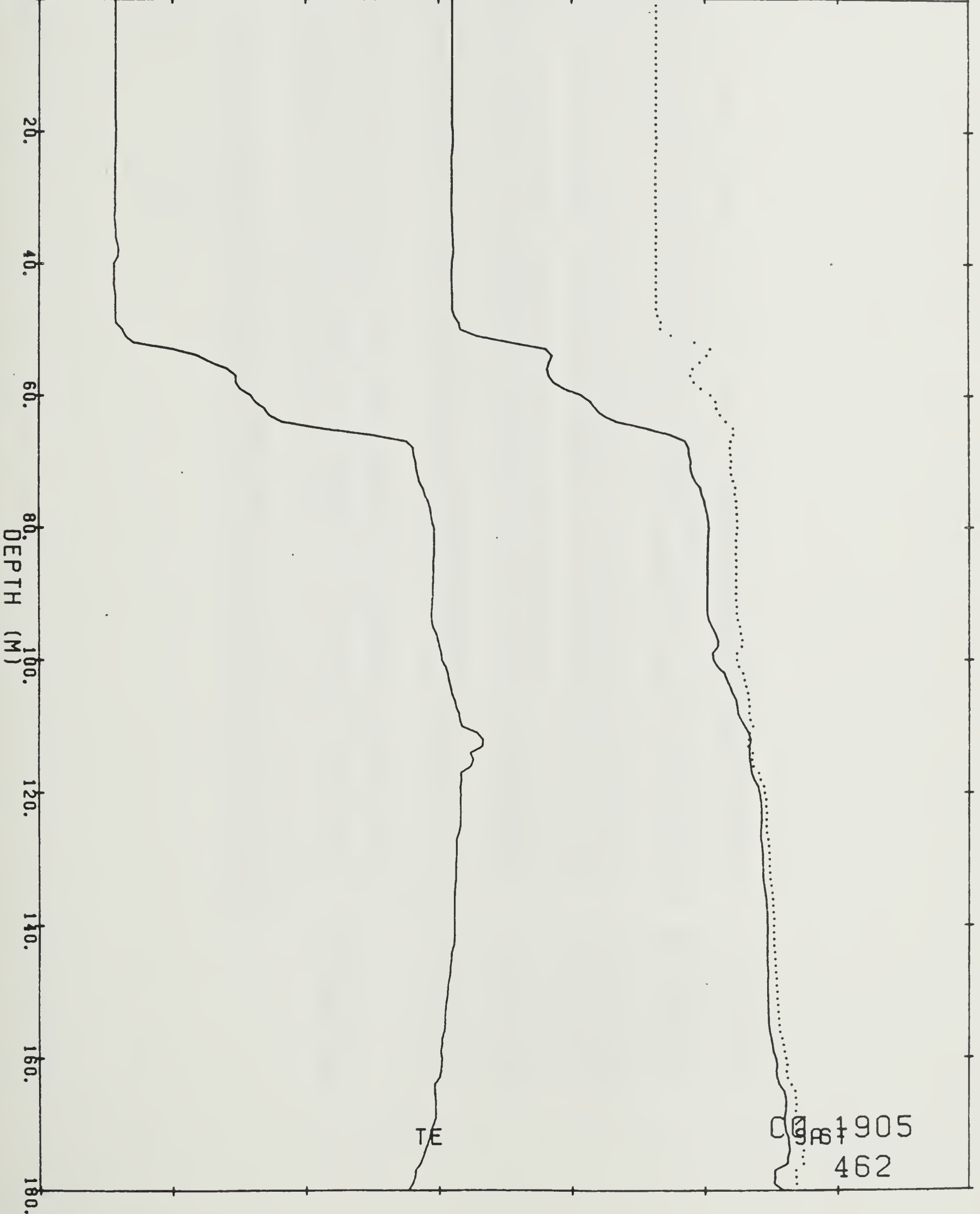
21. 22. 23. 24. 25. 26. 27. 28.

SALINITY (PPT)

30. 31. 32. 33. 34. 35. 36. 37.

TEMPERATURE (DEG C)

8. 10. 12. 14. 16. 18. 20. 22.



SHIP CO CRUISE 19-05 STATION 463 POSITION 39 36.41 N 71 38.57 W
 LOCAL TIME 428 DATE 76/ 1/ 9 WIND = 24knots DIR = 320 DEPTH= 664M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	DTH
0	9.396	33.258	25.692	229.0	0.000	1485.9	0.0
5	9.396	33.258	25.692	229.1	.011	1486.0	5.0
10	9.397	33.257	25.691	229.3	.023	1486.1	10.0
15	9.377	33.257	25.694	229.1	.034	1486.1	15.0
20	9.388	33.260	25.694	229.1	.046	1486.2	20.0
25	9.445	33.294	25.712	227.5	.057	1486.6	25.0
30	9.938	34.065	26.233	178.2	.067	1489.5	30.0
35	11.539	34.204	26.058	195.0	.077	1495.4	35.0
40	11.833	34.286	26.067	194.3	.086	1496.6	40.0
45	11.886	34.335	26.095	191.8	.096	1497.0	45.0
50	11.971	34.385	26.117	189.7	.106	1497.4	50.0
55	12.118	34.527	26.200	182.1	.115	1498.2	55.0
60	12.388	34.616	26.217	180.6	.124	1499.3	60.0
65	12.460	34.625	26.210	181.4	.133	1499.6	65.0
70	12.858	34.859	26.313	171.8	.142	1501.4	70.0
75	13.782	34.931	26.180	184.6	.151	1504.6	75.0
80	13.782	35.019	26.248	178.3	.160	1504.8	80.0
85	13.670	35.044	26.291	174.4	.169	1504.5	85.0
90	14.088	35.247	26.360	168.0	.177	1506.2	90.0
95	14.224	35.216	26.307	173.2	.186	1506.7	95.0
100	14.330	35.268	26.325	171.7	.194	1507.2	100.0
105	14.594	35.374	26.350	169.5	.203	1508.3	105.0
110	14.749	35.455	26.379	166.9	.211	1508.9	110.0
115	14.995	35.553	26.400	165.1	.220	1509.9	115.0
120	15.013	35.573	26.412	164.1	.228	1510.1	120.0
125	14.972	35.579	26.425	163.0	.236	1510.0	125.0
130	14.777	35.606	26.489	157.1	.244	1509.5	130.0
135	14.394	35.630	26.591	147.5	.252	1508.4	135.0
140	14.011	35.586	26.639	143.0	.259	1507.2	140.0
145	13.908	35.586	26.660	141.1	.266	1507.0	145.0
150	13.856	35.603	26.684	138.9	.273	1506.9	150.0
155	13.795	35.614	26.706	137.1	.280	1506.8	155.0
160	13.759	35.627	26.723	135.5	.287	1506.8	160.0
165	13.720	35.623	26.728	135.2	.293	1506.7	165.0
170	13.470	35.637	26.791	129.3	.300	1506.0	170.0
175	13.389	35.648	26.816	127.0	.307	1505.8	175.0
180	13.389	35.669	26.833	125.6	.313	1505.9	180.0
185	13.394	35.670	26.832	125.8	.319	1506.0	185.0
190	13.320	35.658	26.838	125.3	.325	1505.9	190.0
195	13.313	35.656	26.838	125.5	.332	1505.9	195.0
200	13.149	35.646	26.864	123.1	.338	1505.4	200.0
225	12.401	35.528	26.922	118.0	.368	1503.2	225.0
250	11.289	35.444	27.069	104.3	.396	1499.6	250.0
275	10.293	35.292	27.130	98.6	.421	1496.3	275.0
300	9.471	35.198	27.196	92.4	.445	1493.6	300.0
325	8.498	35.091	27.269	85.4	.467	1490.2	325.0
350	8.132	35.098	27.331	79.8	.488	1489.3	350.0
375	7.908	35.076	27.348	78.5	.508	1488.8	375.0
400	7.510	35.061	27.394	74.2	.527	1487.6	400.0
425	6.900	35.046	27.469	67.0	.544	1485.6	425.0
450	6.450	35.019	27.509	63.3	.561	1484.2	450.0
475	6.242	35.021	27.538	60.7	.576	1483.8	475.0
500	5.816	35.019	27.591	55.6	.591	1482.5	500.0
600	4.954	34.964	27.652	50.0	.644	1480.6	600.0
615	4.884	34.989	27.680	47.5	.651	1480.6	615.0

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
5	9.390	33.276	6.44	0.43		5.23		
61	13.410	35.542	5.84	0.39		4.33		
118	14.770	35.548	4.94	0.73		7.12		
176	13.420	35.546	4.06	1.06		9.48		
243	10.990	35.347	3.71	1.38		12.76		
278	9.890	35.256	3.43	1.55		15.00		
361	7.730	35.120		1.62		16.72		
416	6.880	35.062	4.25	1.62		16.26		
584	4.940	35.004	5.18	1.30		14.32		

SIGMA-T

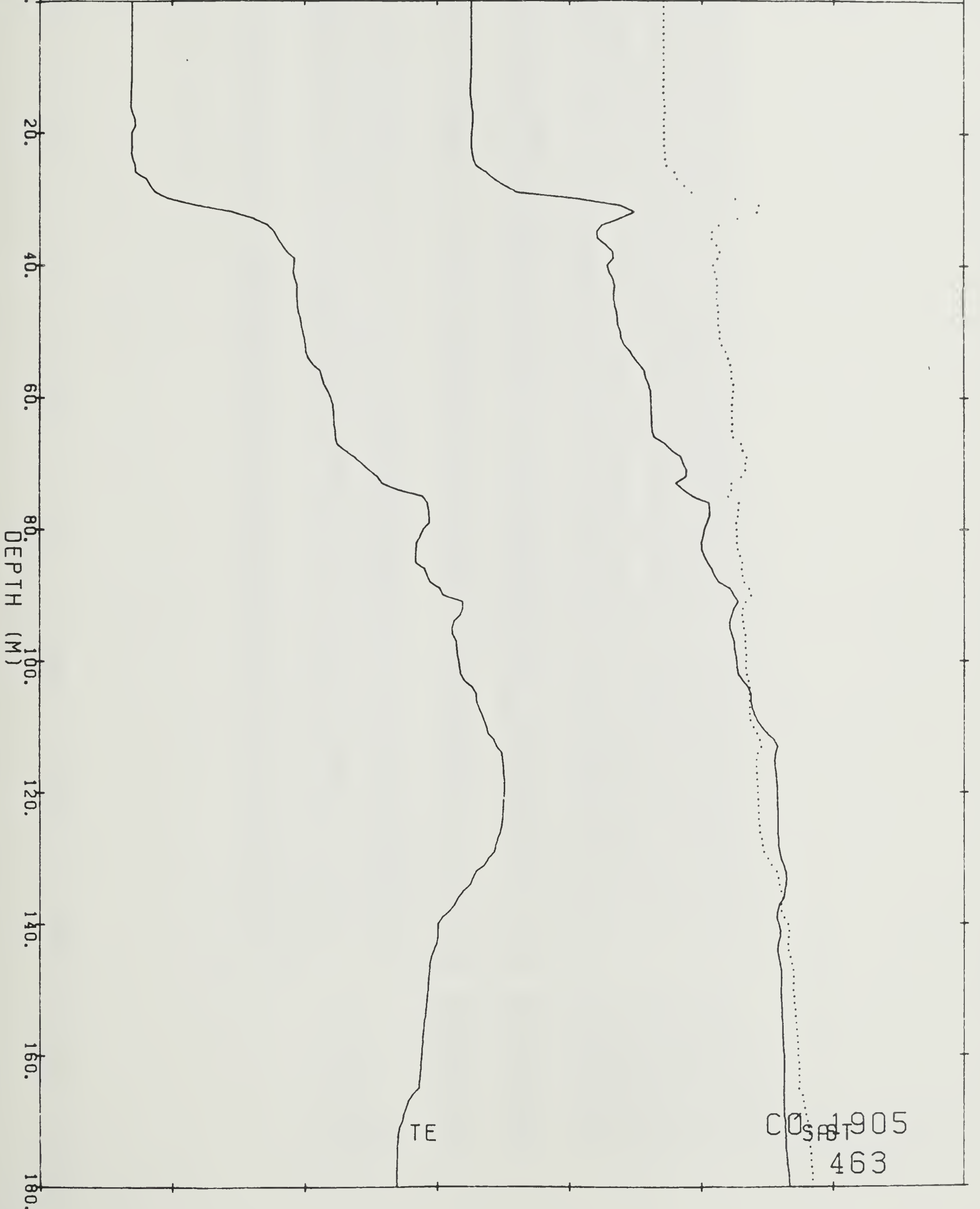
21. 22. 23. 24. 25. 26. 27. 28.

SALINITY (PPT)

30. 31. 32. 33. 34. 35. 36. 37.

TEMPERATURE (DEG C)

9. 10. 12. 14. 16. 18. 20. 22.



SHIP CO CRUISE 19-05 STATION 464 POSITION 39 44.27 N 71 37.98 W
 LOCAL TIME 1048 DATE 76/ 1/ 9 WIND = 5knots DIR = 320 DEPTH=1060M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	DTH
0	9.962	33.560	25.834	215.4	0.000	1488.4	0.0
5	9.962	33.560	25.834	215.5	.011	1488.5	5.0
10	9.962	33.560	25.834	215.6	.022	1488.6	10.0
15	9.962	33.570	25.842	215.0	.032	1488.7	15.0
20	9.976	33.579	25.847	214.6	.043	1488.8	20.0
25	10.073	33.618	25.861	213.4	.054	1489.3	25.0
30	10.138	33.658	25.881	211.6	.064	1489.7	30.0
35	10.162	33.696	25.907	209.3	.075	1489.9	35.0
40	10.617	34.184	26.209	180.7	.085	1492.2	40.0
45	11.933	34.468	26.189	182.8	.094	1497.3	45.0
50	12.538	34.749	26.291	173.4	.103	1499.8	50.0
55	12.734	34.832	26.316	171.0	.111	1500.7	55.0
60	12.802	34.843	26.311	171.7	.120	1501.0	60.0
65	12.985	34.986	26.386	164.8	.128	1501.9	65.0
70	13.233	34.931	26.293	173.7	.137	1502.7	70.0
75	13.238	34.935	26.295	173.6	.145	1502.8	75.0
80	13.267	34.962	26.310	172.4	.154	1503.0	80.0
85	14.106	35.239	26.350	168.8	.163	1506.2	85.0
90	14.208	35.240	26.329	171.0	.171	1506.6	90.0
95	14.299	35.240	26.310	172.9	.180	1507.0	95.0
100	13.934	35.220	26.372	167.2	.188	1505.9	100.0
105	13.921	35.391	26.507	154.5	.196	1506.1	105.0
110	13.898	35.463	26.567	148.9	.204	1506.2	110.0
115	13.878	35.537	26.629	143.2	.211	1506.3	115.0
120	13.864	35.540	26.634	142.9	.218	1506.4	120.0
125	13.541	35.561	26.718	135.0	.225	1505.4	125.0
130	13.523	35.586	26.741	133.0	.232	1505.5	130.0
135	13.506	35.602	26.757	131.6	.238	1505.5	135.0
140	13.567	35.708	26.826	125.2	.245	1505.9	140.0
145	13.869	35.752	26.797	128.2	.251	1507.0	145.0
150	13.628	35.689	26.799	128.1	.258	1506.3	150.0
155	13.536	35.662	26.797	128.3	.264	1506.0	155.0
160	13.227	35.659	26.858	122.6	.270	1505.1	160.0
165	13.136	35.640	26.862	122.4	.276	1504.8	165.0
170	13.062	35.633	26.872	121.6	.283	1504.6	170.0
175	12.875	35.535	26.833	125.2	.289	1504.0	175.0
180	12.676	35.547	26.882	120.7	.295	1503.4	180.0
185	12.560	35.566	26.920	117.2	.301	1503.1	185.0
190	12.478	35.530	26.908	118.4	.307	1502.9	190.0
195	12.294	35.515	26.933	116.2	.313	1502.3	195.0
200	12.191	35.478	26.924	117.1	.318	1502.0	200.0
225	11.360	35.395	27.017	108.6	.347	1499.4	225.0
250	10.556	35.266	27.063	104.5	.373	1496.8	250.0
275	9.664	35.193	27.160	95.4	.398	1493.9	275.0
300	9.024	35.095	27.189	92.8	.422	1491.8	300.0
325	8.550	35.102	27.270	85.4	.444	1490.4	325.0
350	8.067	35.076	27.324	80.4	.465	1489.0	350.0
375	7.572	35.052	27.378	75.3	.484	1487.5	375.0
400	7.067	35.038	27.440	69.6	.502	1485.9	400.0
425	6.615	35.029	27.495	64.4	.519	1484.5	425.0
450	6.290	35.032	27.541	60.1	.535	1483.6	450.0
475	6.089	35.030	27.565	58.0	.549	1483.2	475.0
500	5.941	35.020	27.576	57.1	.564	1483.0	500.0
600	5.149	34.974	27.637	51.7	.618	1481.4	600.0
700	4.777	34.975	27.681	48.1	.668	1481.5	700.0
800	4.535	34.984	27.716	45.6	.715	1482.2	800.0
900	4.351	34.978	27.731	44.8	.760	1483.0	900.0
1000	4.264	34.977	27.740	44.8	.805	1484.3	1000.0
1056	4.091	34.971	27.754	43.7	.830	1484.5	1056.0

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
0	9.960	33.594	6.06	0.54		5.15		
56	13.270	34.960	5.48	0.50		4.79		
149	13.610	35.763	4.03	0.93		7.61		
312	8.490	35.136	3.41	1.68		16.84		
441	6.260	35.045	4.35	1.50		15.75		
572	5.180	35.005	5.42	1.37		14.27		
678	4.780	34.993	5.22	1.34		14.10		
908	4.330	34.988	5.56	1.26		13.32		
989	4.230	34.965	5.51	1.26		13.73		
1012	4.130	34.975	6.07	1.23		14.61		

SIGMA-T

21. 22. 23. 24. 25. 26. 27. 28.

SALINITY (PPT)

30. 31. 32. 33. 34. 35. 36. 37.

TEMPERATURE (DEG C)

8. 10. 12. 14. 16. 18. 20. 22.



SHIP CO CRUISE 19-05 STATION 465 POSITION 39 38.81 N 71 36.89 W
 LOCAL TIME 1651 DATE 76/ 1/ 9 WIND = 18knots DIR = 270 DEPTH=1750M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	DTH
0	11.659	34.282	26.096	190.6	0.000	1495.4	0.0
5	11.659	34.282	26.096	190.7	.010	1495.5	5.0
10	11.659	34.282	26.096	190.8	.019	1495.5	10.0
15	11.644	34.348	26.150	185.8	.028	1495.7	15.0
20	11.657	34.311	26.119	188.9	.038	1495.7	20.0
25	11.675	34.323	26.125	188.4	.047	1495.9	25.0
30	11.696	34.326	26.123	188.7	.057	1496.1	30.0
35	11.706	34.323	26.119	189.2	.066	1496.2	35.0
40	11.697	34.327	26.124	188.8	.076	1496.2	40.0
45	11.765	34.382	26.154	186.1	.085	1496.6	45.0
50	12.258	34.629	26.252	177.0	.094	1498.7	50.0
55	12.560	34.640	26.202	181.9	.103	1499.8	55.0
60	12.901	34.888	26.327	170.2	.112	1501.4	60.0
65	13.895	35.235	26.391	164.3	.120	1505.2	65.0
70	14.208	35.289	26.367	166.8	.128	1506.4	70.0
75	14.322	35.299	26.350	168.5	.137	1506.8	75.0
80	14.422	35.396	26.404	163.6	.145	1507.3	80.0
85	14.751	35.901	26.723	133.6	.153	1509.1	85.0
90	14.957	35.686	26.511	153.8	.160	1509.6	90.0
95	14.538	35.670	26.591	146.4	.167	1508.3	95.0
100	14.423	35.796	26.713	134.9	.174	1508.2	100.0
105	14.445	35.827	26.732	133.3	.181	1508.3	105.0
110	14.390	35.825	26.742	132.4	.188	1508.3	110.0
115	14.335	35.817	26.748	132.0	.194	1508.1	115.0
120	14.132	35.763	26.750	132.0	.201	1507.5	120.0
125	13.922	35.716	26.758	131.3	.207	1506.8	125.0
130	13.808	35.724	26.788	128.5	.214	1506.6	130.0
135	13.721	35.705	26.792	128.3	.220	1506.3	135.0
140	13.419	35.677	26.833	124.5	.227	1505.4	140.0
145	13.376	35.685	26.848	123.2	.233	1505.3	145.0
150	13.169	35.613	26.834	124.6	.239	1504.6	150.0
155	12.962	35.609	26.873	121.0	.245	1504.0	155.0
160	12.842	35.578	26.873	121.1	.251	1503.7	160.0
165	12.712	35.584	26.904	118.3	.257	1503.3	165.0
170	12.667	35.580	26.910	117.8	.263	1503.2	170.0
175	12.543	35.543	26.906	118.3	.269	1502.9	175.0
180	12.339	35.521	26.929	116.2	.275	1502.2	180.0
185	12.226	35.507	26.940	115.2	.281	1501.9	185.0
190	12.160	35.518	26.961	113.3	.286	1501.8	190.0
195	12.132	35.498	26.951	114.4	.292	1501.7	195.0
200	11.959	35.485	26.974	112.3	.298	1501.2	200.0
225	11.273	35.370	27.014	108.8	.325	1499.1	225.0
250	10.598	35.250	27.043	106.4	.352	1496.9	250.0
275	9.737	35.175	27.134	97.9	.378	1494.1	275.0
300	9.188	35.150	27.205	91.4	.402	1492.5	300.0
325	8.692	35.086	27.235	88.8	.424	1491.0	325.0
350	7.888	35.056	27.335	79.2	.445	1488.3	350.0
375	7.264	35.060	27.429	70.3	.464	1486.3	375.0
400	6.829	35.001	27.444	69.0	.481	1484.9	400.0
425	6.598	35.042	27.507	63.2	.498	1484.5	425.0
450	6.315	35.029	27.535	60.7	.513	1483.7	450.0
475	5.991	35.012	27.564	58.0	.528	1482.8	475.0
500	5.782	35.009	27.588	55.9	.542	1482.4	500.0
600	5.047	34.989	27.661	49.3	.595	1481.0	600.0
700	4.756	34.986	27.692	47.1	.643	1481.4	700.0
800	4.608	34.986	27.709	46.3	.690	1482.5	800.0
900	4.502	34.985	27.720	46.1	.736	1483.7	900.0
1000	4.363	34.982	27.733	45.7	.782	1484.7	1000.0
1100	4.262	34.978	27.741	45.7	.828	1486.0	1100.0
1200	4.087	34.971	27.754	45.0	.873	1486.9	1200.0
1300	4.012	34.972	27.763	44.9	.918	1488.2	1300.0
1400	3.971	34.970	27.765	45.4	.963	1489.7	1400.0
1500	3.852	34.968	27.776	44.9	1.008	1490.9	1500.0
1600	3.707	34.964	27.788	44.1	1.052	1491.9	1600.0
1700	3.612	34.961	27.795	43.9	1.096	1493.2	1700.0
1749	3.581	34.868	27.724	50.7	1.120	1493.7	1749.0

OTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
10	11.690	34.368	6.03	0.46		5.14		
29	12.220	34.359	5.85	0.46		5.14		
162	12.340	35.566	4.43	1.13		9.18		
322	8.190	35.130	3.69	1.63		16.14		
495	5.840	35.021	4.93	1.42		14.68		
692	4.730	34.992	5.73	1.28		13.41		
847	4.540	34.992	5.81	1.26		13.18		
1078	4.270	34.987	6.02	1.22		13.00		
1366	3.980	34.975	6.18	1.16		13.23		
1527	3.700	34.967	6.25	1.14		14.50		
1691	3.610	34.976	6.23	1.29		15.18		

SIGMA-T

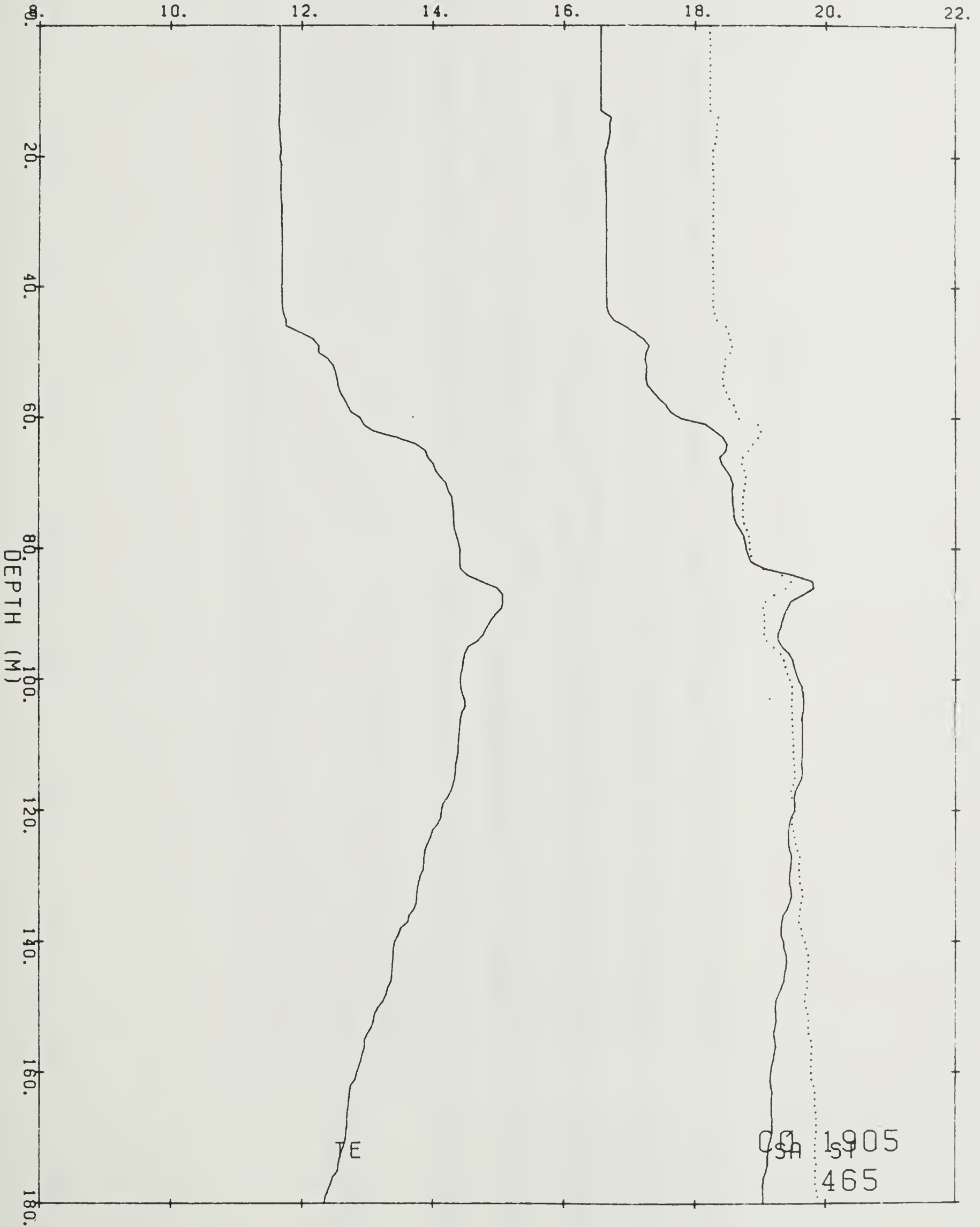
21. 22. 23. 24. 25. 26. 27. 28.

SALINITY (PPT)

30. 31. 32. 33. 34. 35. 36. 37.

TEMPERATURE (DEG C)

20. 10. 12. 14. 16. 18. 20. 22.



SHIP CO CRUISE 19-05 STATION 466 POSITION 39 28.79 N 71 29.51 W
 LOCAL TIME 1430 DATE 76/ 1/10 WIND = 20knots DIR = 300 DEPTH=2230M

DTH	TEM	SAL	SGT	ANO	OYN	SVL	DTH
0	12.477	34.916	26.432	158.6	0.000	1499.0	0.0
5	12.477	34.916	26.432	158.8	.008	1499.1	5.0
10	12.477	34.916	26.432	158.9	.016	1499.2	10.0
15	12.477	34.916	26.432	159.0	.024	1499.2	15.0
20	12.477	34.916	26.432	159.2	.032	1499.3	20.0
25	12.510	34.913	26.423	160.1	.040	1499.5	25.0
30	12.548	34.950	26.445	158.2	.048	1499.8	30.0
35	12.579	34.986	26.466	156.3	.056	1500.0	35.0
40	12.718	35.054	26.492	154.0	.063	1500.6	40.0
45	13.148	35.236	26.547	149.0	.071	1502.4	45.0
50	13.880	35.584	26.665	138.0	.078	1505.3	50.0
55	14.249	35.556	26.565	147.6	.085	1506.6	55.0
60	14.363	35.554	26.539	150.3	.093	1507.0	60.0
65	14.404	35.552	26.528	151.4	.100	1507.2	65.0
70	14.439	35.585	26.546	149.8	.108	1507.5	70.0
75	14.489	35.616	26.559	148.7	.115	1507.7	75.0
80	14.583	35.629	26.549	149.9	.123	1508.1	80.0
85	14.634	35.636	26.544	150.6	.130	1508.4	85.0
90	14.625	35.620	26.533	151.7	.138	1508.4	90.0
95	14.619	35.639	26.549	150.3	.145	1508.5	95.0
100	14.641	35.642	26.547	150.7	.153	1508.7	100.0
105	14.635	35.641	26.547	150.8	.160	1508.7	105.0
110	14.643	35.645	26.548	150.8	.168	1508.8	110.0
115	14.644	35.645	26.548	151.0	.175	1508.9	115.0
120	14.642	35.644	26.548	151.2	.183	1509.0	120.0
125	14.662	35.639	26.540	152.1	.191	1509.1	125.0
130	14.358	35.654	26.617	144.9	.198	1508.3	130.0
135	13.990	35.695	26.727	134.5	.205	1507.2	135.0
140	13.741	35.709	26.790	128.6	.212	1506.5	140.0
145	13.514	35.644	26.787	129.0	.218	1505.7	145.0
150	12.979	35.556	26.829	125.1	.224	1503.9	150.0
155	12.825	35.575	26.874	120.8	.231	1503.5	155.0
160	12.705	35.562	26.888	119.6	.237	1503.2	160.0
165	12.574	35.572	26.922	116.5	.242	1502.8	165.0
170	12.353	35.501	26.910	117.7	.248	1502.1	170.0
175	12.250	35.491	26.923	116.6	.254	1501.8	175.0
180	12.092	35.484	26.948	114.3	.260	1501.3	180.0
185	12.028	35.466	26.946	114.5	.266	1501.2	185.0
190	11.706	35.424	26.975	111.8	.271	1500.1	190.0
195	11.628	35.440	27.002	109.4	.277	1499.9	195.0
200	11.511	35.416	27.006	109.1	.282	1499.6	200.0
225	10.646	35.299	27.073	103.0	.309	1496.8	225.0
250	9.963	35.226	27.135	97.4	.334	1494.6	250.0
275	9.082	35.124	27.202	91.1	.357	1491.6	275.0
300	8.780	35.104	27.235	88.3	.380	1490.9	300.0
325	8.182	35.057	27.291	83.1	.401	1489.0	325.0
350	7.714	35.071	27.372	75.6	.421	1487.6	350.0
375	7.380	35.062	27.414	71.8	.440	1486.7	375.0
400	6.989	35.051	27.461	67.5	.457	1485.6	400.0
425	6.520	35.030	27.508	63.0	.473	1484.1	425.0
450	6.088	34.989	27.533	60.6	.489	1482.8	450.0
475	5.823	34.996	27.572	57.0	.503	1482.1	475.0
500	5.618	35.004	27.604	54.1	.517	1481.7	500.0
600	5.146	35.007	27.664	49.2	.569	1481.4	600.0
700	4.825	35.010	27.704	46.1	.617	1481.8	700.0
800	4.528	34.989	27.721	45.1	.662	1482.1	800.0
900	4.282	34.975	27.736	44.2	.707	1482.7	900.0
1000	4.189	34.974	27.746	44.1	.751	1484.0	1000.0
1100	4.112	34.971	27.751	44.3	.795	1485.3	1100.0
1200	4.021	34.975	27.764	43.8	.839	1486.6	1200.0
1300	3.939	34.971	27.770	44.0	.883	1487.9	1300.0
1400	3.873	34.972	27.777	44.0	.927	1489.3	1400.0
1500	3.816	34.971	27.782	44.2	.971	1490.7	1500.0
1600	3.756	34.969	27.787	44.4	1.016	1492.1	1600.0
1700	3.698	34.967	27.791	44.6	1.060	1493.5	1700.0
1800	3.622	34.962	27.795	44.8	1.105	1494.9	1800.0
1900	3.548	34.959	27.800	44.8	1.150	1496.2	1900.0
2000	3.468	34.954	27.804	44.8	1.194	1497.5	2000.0
2100	3.335	34.949	27.813	44.1	1.239	1498.6	2100.0
2200	3.221	34.941	27.817	43.8	1.283	1499.8	2200.0
2218	3.225	34.934	27.811	44.5	1.291	1500.1	2218.0

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
17	12.670	35.016	5.91	0.44		4.82		
104	14.660	35.613	5.46	0.50		5.46		
269	8.840	35.065	4.67	1.42		14.50		
536	5.350	35.030	5.26	1.35		14.05		
783	4.450	34.989	5.98	1.24		12.68		
1389	3.880	34.980	6.14	1.22		13.45		
1681	3.710	34.971	6.22	1.22		14.55		
1879	3.550	34.973	6.29	1.21		15.41		
2016	3.390	34.979	6.21	1.20		17.05		
2142	3.270	34.962	6.30	1.23		17.14		

202

SIGMA-T

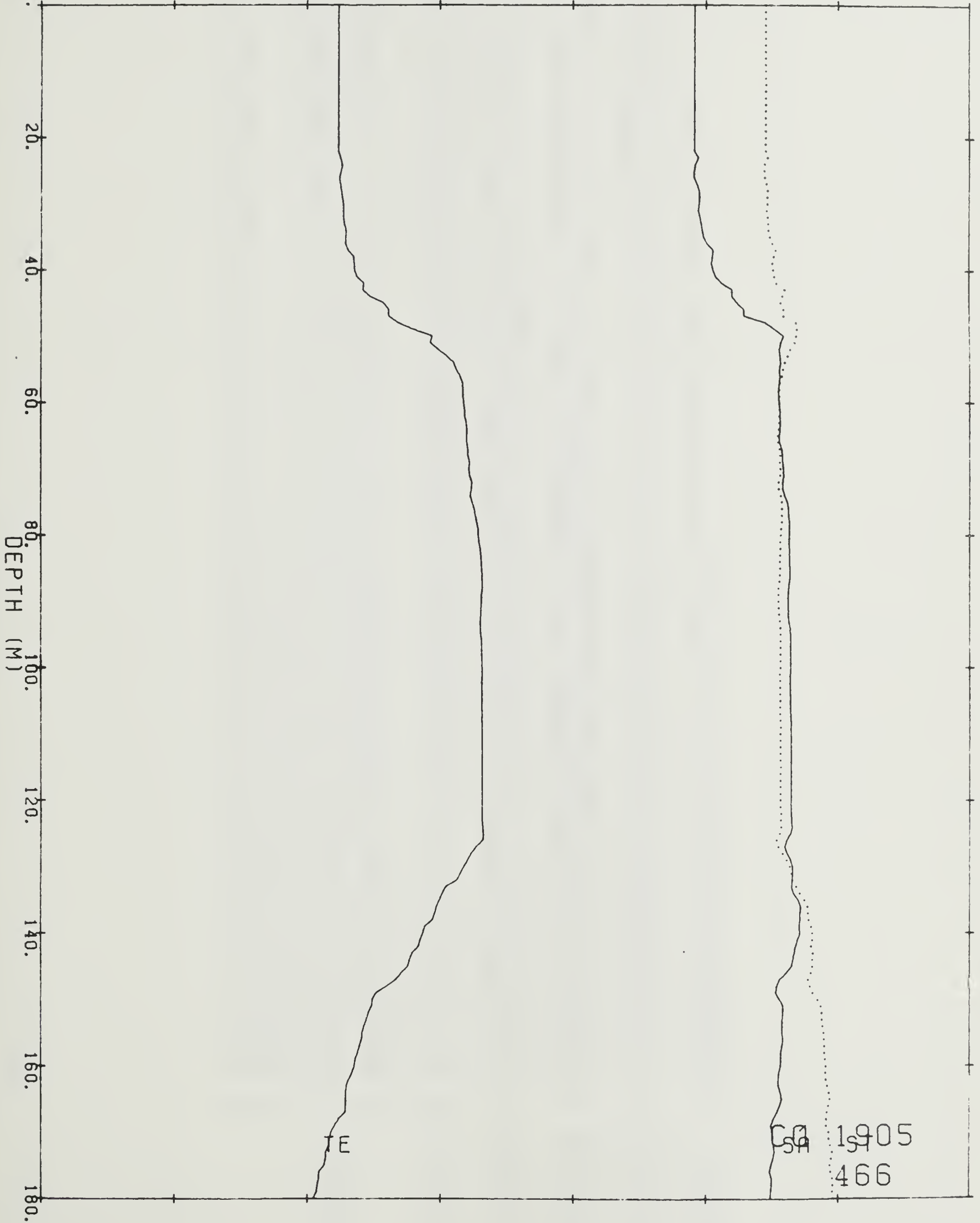
21. 22. 23. 24. 25. 26. 27. 28.

SALINITY (PPT)

30. 31. 32. 33. 34. 35. 36. 37.

TEMPERATURE (DEG C)

8. 10. 12. 14. 16. 18. 20. 22.



SHIP CO CRUISE 19-05 STATIDN 467 POSITION 39 20.57 N 71 17.87 W
 LDCAL TIME 1922 DATE 76/ 1/10 WIND = 9knots DIR = 330 DEPTH=2590M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	DTH
0	14.287	35.517	26.526	149.7	0.000	1505.7	0.0
5	14.287	35.517	26.526	149.8	.007	1505.8	5.0
10	14.287	35.517	26.526	150.0	.015	1505.9	10.0
15	14.326	35.556	26.548	148.1	.022	1506.2	15.0
20	14.306	35.559	26.555	147.6	.030	1506.2	20.0
25	14.325	35.569	26.559	147.4	.037	1506.3	25.0
30	14.345	35.564	26.550	148.3	.045	1506.5	30.0
35	14.353	35.564	26.549	148.6	.052	1506.6	35.0
40	14.350	35.568	26.552	148.4	.059	1506.7	40.0
45	14.364	35.571	26.552	148.6	.067	1506.8	45.0
50	14.368	35.564	26.545	149.3	.074	1506.9	50.0
55	14.358	35.566	26.549	149.1	.082	1506.9	55.0
60	14.350	35.560	26.546	149.6	.089	1507.0	60.0
65	14.348	35.565	26.550	149.3	.097	1507.1	65.0
70	14.353	35.562	26.547	149.8	.104	1507.2	70.0
75	14.353	35.566	26.550	149.6	.112	1507.2	75.0
80	14.351	35.566	26.550	149.7	.119	1507.3	80.0
85	14.360	35.569	26.551	149.8	.127	1507.4	85.0
90	14.362	35.569	26.551	150.0	.134	1507.5	90.0
95	14.360	35.570	26.552	150.0	.142	1507.6	95.0
100	14.362	35.571	26.552	150.2	.149	1507.7	100.0
105	14.364	35.568	26.549	150.6	.157	1507.8	105.0
110	14.373	35.574	26.552	150.4	.164	1507.9	110.0
115	14.376	35.576	26.553	150.5	.172	1508.0	115.0
120	14.360	35.565	26.548	151.1	.179	1508.0	120.0
125	14.365	35.573	26.553	150.8	.187	1508.1	125.0
130	14.373	35.583	26.559	150.4	.194	1508.2	130.0
135	14.410	35.605	26.568	149.7	.202	1508.5	135.0
140	14.261	35.675	26.654	141.6	.209	1508.1	140.0
145	13.842	35.719	26.777	130.0	.216	1506.9	145.0
150	13.560	35.696	26.818	126.2	.222	1506.0	150.0
155	13.271	35.677	26.863	122.0	.229	1505.1	155.0
160	13.035	35.613	26.862	122.2	.235	1504.4	160.0
165	12.927	35.656	26.917	117.1	.241	1504.1	165.0
170	12.870	35.623	26.902	118.6	.247	1504.0	170.0
175	12.642	35.533	26.878	120.9	.252	1503.2	175.0
180	12.468	35.546	26.923	116.8	.258	1502.7	180.0
185	12.163	35.501	26.947	114.5	.264	1501.7	185.0
190	12.024	35.516	26.986	110.9	.270	1501.3	190.0
195	11.916	35.502	26.996	110.1	.275	1501.0	195.0
200	11.751	35.441	26.980	111.7	.281	1500.4	200.0
225	11.104	35.390	27.061	104.4	.308	1498.5	225.0
250	10.432	35.311	27.120	99.0	.333	1496.4	250.0
275	9.668	35.170	27.142	97.2	.358	1493.9	275.0
300	8.809	35.123	27.246	87.4	.381	1491.0	300.0
325	8.291	35.113	27.319	80.6	.402	1489.5	325.0
350	7.663	35.111	27.411	71.9	.421	1487.5	350.0
375	7.250	35.100	27.463	67.2	.438	1486.3	375.0
400	6.761	35.066	27.504	63.2	.455	1484.7	400.0
425	6.530	35.084	27.550	59.1	.470	1484.2	425.0
450	6.296	35.065	27.566	57.8	.485	1483.7	450.0
475	5.926	35.060	27.610	53.6	.499	1482.6	475.0
500	5.614	35.053	27.644	50.4	.512	1481.8	500.0
600	4.958	35.038	27.710	44.6	.559	1480.7	600.0
700	4.685	35.040	27.743	42.2	.602	1481.2	700.0
800	4.497	35.038	27.763	41.1	.644	1482.1	800.0
900	4.295	35.031	27.780	40.2	.685	1482.9	900.0
1000	4.195	35.029	27.789	40.1	.725	1484.1	1000.0
1100	4.130	35.024	27.792	40.6	.765	1485.5	1100.0
1200	4.054	35.011	27.789	41.6	.806	1486.8	1200.0
1300	3.976	35.016	27.802	41.2	.848	1488.1	1300.0
1400	3.934	35.017	27.807	41.4	.889	1489.6	1400.0
1500	3.875	35.015	27.811	41.7	.931	1491.0	1500.0
1600	3.809	35.011	27.815	42.0	.972	1492.4	1600.0
1700	3.756	35.009	27.819	42.3	1.015	1493.8	1700.0
1800	3.705	35.010	27.825	42.4	1.057	1495.3	1800.0
1900	3.634	35.004	27.827	42.7	1.099	1496.6	1900.0
2000	3.545	35.000	27.833	42.5	1.142	1497.9	2000.0
2100	3.451	34.992	27.836	42.6	1.185	1499.2	2100.0
2200	3.367	34.989	27.842	42.4	1.227	1500.5	2200.0
2300	3.232	34.979	27.847	41.9	1.269	1501.6	2300.0
2400	3.105	34.969	27.851	41.5	1.311	1502.7	2400.0
2500	2.956	34.955	27.853	41.1	1.352	1503.8	2500.0
2577	2.714	34.940	27.863	39.2	1.383	1504.0	2577.0

DTH	TEM	SAL	DXG	PHDS	NITR	SIL	NO2	AMM
9	14.310	35.554	5.45	0.41		4.01		
146	12.970	35.673	3.90	1.03		8.20		
442	6.040	35.052	4.68	1.48		14.46		
704	4.640	35.012	5.75	1.32		12.79		
963	4.230	35.024	5.93	1.27		12.43		
1709	3.750	34.995	6.16	1.27		13.69		
1963	3.540	34.970	6.15	1.29		15.14		
2230	3.260	34.968	6.22	1.27		16.71		
2233	3.260	35.018	6.12					
2506	2.810	34.967	6.27	1.25		18.38		

SIGMA-T

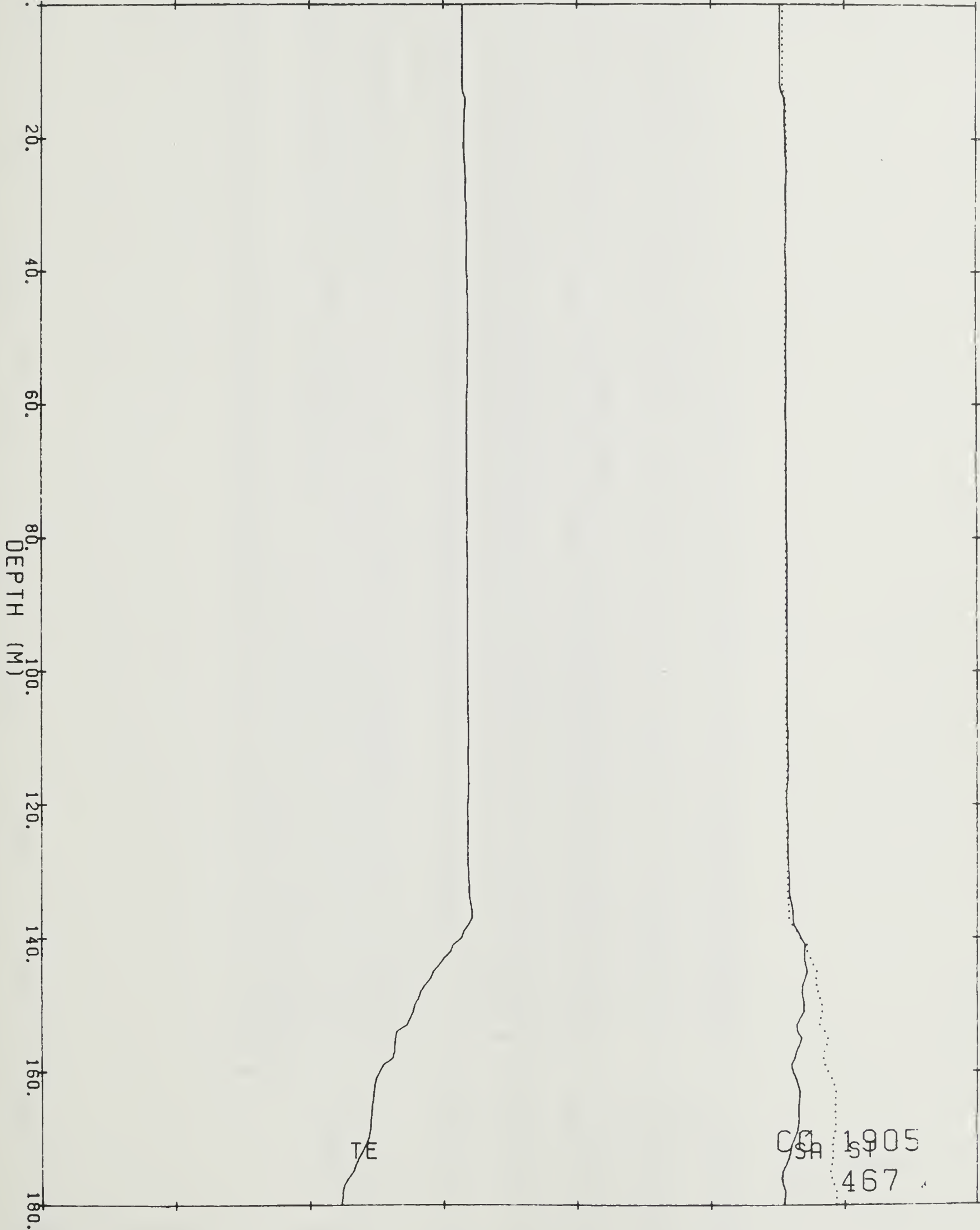
21. 22. 23. 24. 25. 26. 27. 28.

SALINITY (PPT)

30. 31. 32. 33. 34. 35. 36. 37.

TEMPERATURE (DEG C)

8. 10. 12. 14. 16. 18. 20. 22.



SHIP CD CRUISE 19-05 STATION 468 POSITION 39 23.22 N 71 29.57 W
 LOCAL TIME 457 DATE 76/ 1/11 WIND = 2knots DIR = 300 DEPTH=2386M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	DTH
0	14.111	35.545	26.586	144.1	0.000	1505.2	0.0
5	14.111	35.545	26.586	144.2	.007	1505.3	5.0
10	14.111	35.545	26.586	144.4	.014	1505.4	10.0
15	14.193	35.559	26.579	145.1	.022	1505.7	15.0
20	14.211	35.560	26.576	145.6	.029	1505.9	20.0
25	14.207	35.557	26.574	145.9	.036	1505.9	25.0
30	14.209	35.558	26.575	146.0	.044	1506.0	30.0
35	14.209	35.560	26.576	146.0	.051	1506.1	35.0
40	14.216	35.558	26.573	146.4	.058	1506.2	40.0
45	14.219	35.559	26.573	146.5	.065	1506.3	45.0
50	14.220	35.560	26.574	146.6	.073	1506.4	50.0
55	14.219	35.561	26.575	146.7	.080	1506.5	55.0
60	14.218	35.560	26.574	146.9	.087	1506.6	60.0
65	14.216	35.560	26.575	147.0	.095	1506.6	65.0
70	14.220	35.563	26.576	147.0	.102	1506.7	70.0
75	14.219	35.561	26.575	147.2	.109	1506.8	75.0
80	14.219	35.563	26.576	147.2	.117	1506.9	80.0
85	14.221	35.563	26.576	147.4	.124	1507.0	85.0
90	14.223	35.562	26.575	147.7	.132	1507.1	90.0
95	14.228	35.564	26.575	147.8	.139	1507.2	95.0
100	14.227	35.565	26.576	147.8	.146	1507.2	100.0
105	14.227	35.564	26.576	148.0	.154	1507.3	105.0
110	14.225	35.566	26.577	148.0	.161	1507.4	110.0
115	14.228	35.568	26.578	148.1	.169	1507.5	115.0
120	14.231	35.571	26.580	148.0	.176	1507.6	120.0
125	14.229	35.579	26.587	147.6	.183	1507.7	125.0
130	14.111	35.613	26.638	142.8	.191	1507.4	130.0
135	13.950	35.705	26.743	133.0	.198	1507.1	135.0
140	13.670	35.707	26.804	127.3	.204	1506.3	140.0
145	13.600	35.704	26.816	126.3	.210	1506.1	145.0
150	13.361	35.668	26.838	124.3	.217	1505.3	150.0
155	13.274	35.680	26.865	121.9	.223	1505.2	155.0
160	13.143	35.615	26.841	124.2	.229	1504.7	160.0
165	12.989	35.641	26.893	119.4	.235	1504.3	165.0
170	12.922	35.626	26.894	119.4	.241	1504.2	170.0
175	12.782	35.585	26.891	119.8	.247	1503.7	175.0
180	12.503	35.529	26.903	118.7	.253	1502.8	180.0
185	12.211	35.497	26.935	115.7	.259	1501.8	185.0
190	12.053	35.468	26.943	115.0	.265	1501.3	190.0
195	11.937	35.497	26.988	110.8	.270	1501.1	195.0
200	11.861	35.482	26.991	110.7	.276	1500.9	200.0
225	11.311	35.408	27.037	106.7	.303	1499.3	225.0
250	10.507	35.286	27.087	102.2	.329	1496.7	250.0
275	9.743	35.218	27.167	94.9	.354	1494.2	275.0
300	9.047	35.135	27.217	90.2	.377	1491.9	300.0
325	8.608	35.123	27.277	84.7	.399	1490.7	325.0
350	7.909	35.096	27.363	76.6	.419	1488.4	350.0
375	7.390	35.089	27.434	70.0	.437	1486.8	375.0
400	6.975	35.066	27.475	66.2	.454	1485.6	400.0
425	6.612	35.047	27.509	63.0	.470	1484.5	425.0
450	6.192	35.040	27.560	58.2	.485	1483.2	450.0
475	6.000	35.045	27.588	55.7	.500	1482.9	475.0
500	5.754	35.044	27.619	52.9	.513	1482.3	500.0
600	5.051	35.013	27.680	47.6	.564	1481.0	600.0
700	4.760	35.029	27.726	43.9	.609	1481.5	700.0
800	4.514	35.016	27.743	43.0	.653	1482.1	800.0
900	4.341	35.009	27.757	42.4	.695	1483.0	900.0
1000	4.195	35.008	27.772	41.7	.737	1484.1	1000.0
1100	4.111	35.006	27.779	41.7	.779	1485.4	1100.0
1200	4.057	35.010	27.788	41.7	.821	1486.8	1200.0
1300	3.949	35.001	27.792	41.9	.863	1488.0	1300.0
1400	3.891	35.000	27.798	42.1	.905	1489.4	1400.0
1500	3.839	35.005	27.807	42.0	.947	1490.8	1500.0
1600	3.770	35.003	27.813	42.1	.989	1492.2	1600.0
1700	3.699	34.999	27.817	42.3	1.031	1493.6	1700.0
1800	3.623	34.995	27.821	42.4	1.073	1494.9	1800.0
1900	3.565	34.993	27.825	42.5	1.116	1496.3	1900.0
2000	3.482	34.984	27.826	42.8	1.158	1497.6	2000.0
2100	3.356	34.980	27.835	42.2	1.201	1498.8	2100.0
2200	3.239	34.970	27.839	42.0	1.243	1499.9	2200.0
2300	3.114	34.965	27.847	41.3	1.285	1501.1	2300.0
2376	2.937	34.953	27.854	40.2	1.316	1501.6	2376.0

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
5	14.180	35.563	5.39	0.57		4.19		
115	14.140	35.629	4.92	0.61		5.77		
241	10.270	35.303	3.29	1.50		13.83		
482	5.750	35.033	4.89	1.41		13.96		
722	4.670	35.004	5.71	1.27		12.53		
961	4.240	34.985	6.00	1.23		12.48		
1200	4.060	34.995	5.86	1.27		12.70		
1439	3.870	34.995						
1708	3.690	34.974	6.16	1.29		14.20		
2027	3.400	34.978	6.23	1.29		16.58		
2306	2.980	34.960	6.16	1.29		18.15		

SIGMA-T

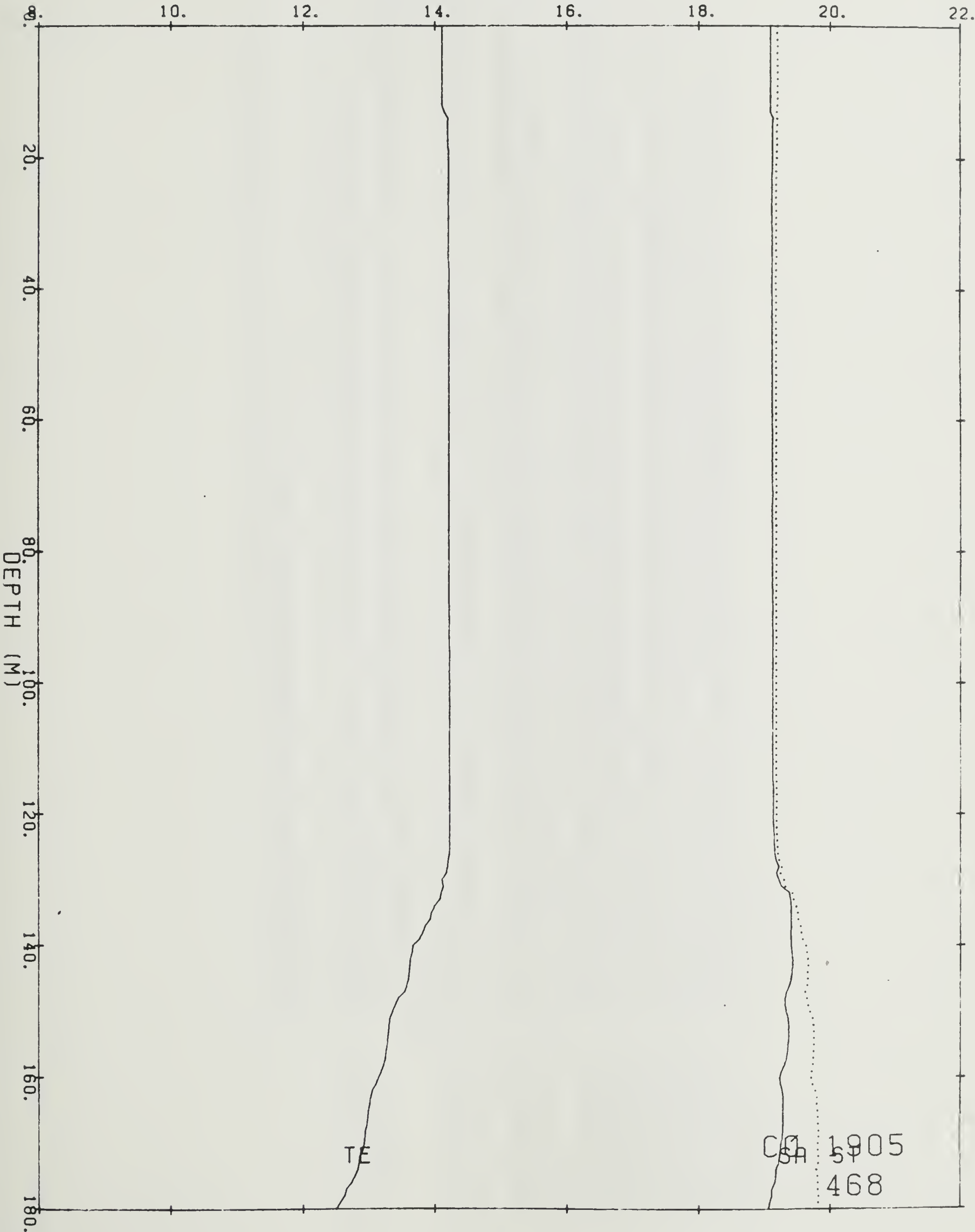
21. 22. 23. 24. 25. 26. 27. 28.

SALINITY (PPT)

30. 31. 32. 33. 34. 35. 36. 37.

TEMPERATURE (DEG C)

20. 10. 12. 14. 16. 18. 20. 22.



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468

SHIP CO CRUISE 19-05 STATION 469 POSITION 39 27.59 N 71 43.02 W
 LOCAL TIME 832 DATE 76/ 1/11 WIND = 2knots DIR = 100 DEPTH=1713M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	DTH
0	11.164	34.458	26.324	168.9	0.000	1493.9	0.0
5	11.164	34.458	26.324	169.0	.008	1494.0	5.0
10	11.242	34.383	26.252	176.0	.017	1494.2	10.0
15	11.254	34.391	26.256	175.7	.026	1494.3	15.0
20	11.264	34.397	26.258	175.6	.035	1494.5	20.0
25	11.320	34.457	26.295	172.3	.043	1494.8	25.0
30	11.714	34.675	26.391	163.2	.052	1496.6	30.0
35	12.381	34.929	26.461	156.8	.060	1499.3	35.0
40	13.150	35.531	26.775	127.2	.067	1502.7	40.0
45	14.248	35.566	26.573	146.6	.074	1506.4	45.0
50	14.644	35.618	26.527	151.1	.081	1507.8	50.0
55	14.797	35.618	26.494	154.4	.089	1508.4	55.0
60	14.837	35.603	26.474	156.5	.097	1508.6	60.0
65	14.837	35.603	26.474	156.6	.104	1508.7	65.0
70	14.855	35.602	26.469	157.2	.112	1508.8	70.0
75	14.896	35.615	26.470	157.3	.120	1509.0	75.0
80	14.913	35.624	26.473	157.1	.128	1509.2	80.0
85	15.000	35.692	26.506	154.1	.136	1509.6	85.0
90	15.066	35.663	26.470	157.8	.144	1509.9	90.0
95	14.916	35.587	26.444	160.3	.151	1509.4	95.0
100	14.777	35.575	26.465	158.5	.159	1509.0	100.0
105	14.711	35.564	26.471	158.0	.167	1508.9	105.0
110	14.668	35.573	26.487	156.6	.175	1508.8	110.0
115	14.673	35.589	26.499	155.7	.183	1508.9	115.0
120	14.668	35.584	26.496	156.1	.191	1509.0	120.0
125	14.662	35.605	26.513	154.6	.199	1509.1	125.0
130	14.559	35.611	26.540	152.2	.206	1508.9	130.0
135	14.471	35.610	26.559	150.5	.214	1508.7	135.0
140	14.234	35.689	26.671	140.0	.221	1508.1	140.0
145	14.028	35.668	26.698	137.5	.228	1507.5	145.0
150	13.692	35.650	26.755	132.2	.235	1506.4	150.0
155	13.521	35.659	26.798	128.3	.241	1505.9	155.0
160	13.418	35.651	26.813	127.0	.248	1505.7	160.0
165	13.234	35.570	26.788	129.4	.254	1505.1	165.0
170	13.103	35.625	26.857	122.9	.260	1504.8	170.0
175	13.077	35.635	26.870	121.8	.266	1504.8	175.0
180	13.029	35.607	26.858	123.1	.273	1504.7	180.0
185	12.780	35.513	26.835	125.3	.279	1503.8	185.0
190	12.481	35.478	26.867	122.3	.285	1502.8	190.0
195	12.321	35.494	26.911	118.2	.291	1502.4	195.0
200	12.231	35.488	26.924	117.1	.297	1502.1	200.0
225	11.379	35.385	27.006	109.6	.325	1499.5	225.0
250	10.607	35.296	27.077	103.2	.352	1497.0	250.0
275	9.635	35.166	27.144	96.9	.377	1493.7	275.0
300	8.994	35.132	27.223	89.6	.400	1491.7	300.0
325	8.412	35.092	27.284	84.0	.422	1489.9	325.0
350	7.999	35.057	27.319	80.8	.442	1488.7	350.0
375	7.472	35.054	27.395	73.7	.462	1487.1	375.0
400	7.057	35.032	27.436	69.9	.480	1485.8	400.0
425	6.745	35.028	27.476	66.2	.497	1485.0	425.0
450	6.537	35.041	27.515	62.8	.513	1484.6	450.0
475	6.016	35.013	27.561	58.3	.528	1482.9	475.0
500	5.775	35.001	27.582	56.4	.542	1482.3	500.0
600	5.176	35.013	27.665	49.1	.595	1481.6	600.0
700	4.869	34.996	27.687	47.7	.644	1481.9	700.0
800	4.569	34.990	27.717	45.6	.690	1482.3	800.0
900	4.400	34.983	27.730	45.0	.735	1483.2	900.0
1000	4.210	34.971	27.741	44.6	.780	1484.1	1000.0
1100	4.128	34.976	27.754	44.2	.825	1485.4	1100.0
1200	4.053	34.976	27.762	44.2	.869	1486.7	1200.0
1300	4.023	34.981	27.769	44.3	.913	1488.3	1300.0
1400	3.897	34.975	27.777	44.1	.957	1489.4	1400.0
1500	3.852	34.972	27.779	44.6	1.002	1490.9	1500.0
1600	3.721	34.969	27.790	43.9	1.046	1492.0	1600.0
1700	3.593	34.965	27.800	43.4	1.089	1493.1	1700.0
1706	3.593	34.967	27.802	43.3	1.092	1493.2	1706.0

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
0	11.250	34.423	5.60	0.42		5.37		
57	14.860	35.623	5.28	0.35		4.72		
270	9.180	35.181	3.27	1.56		16.10		
458	6.000	35.033	4.67	1.36		14.86		
642	5.050	35.020	5.35	1.30		13.44		
825	4.480	34.997	5.79	1.23		12.61		
1009	4.200	34.963	5.98	1.20		12.39		
1194	4.050	34.977	6.02	1.17		12.57		
1379	3.920	34.962	6.05	1.19		14.31		
1527	3.760	34.973	6.09	1.19		13.49		
1642	3.640	34.974	6.13	1.21		14.54		

SIGMA-T

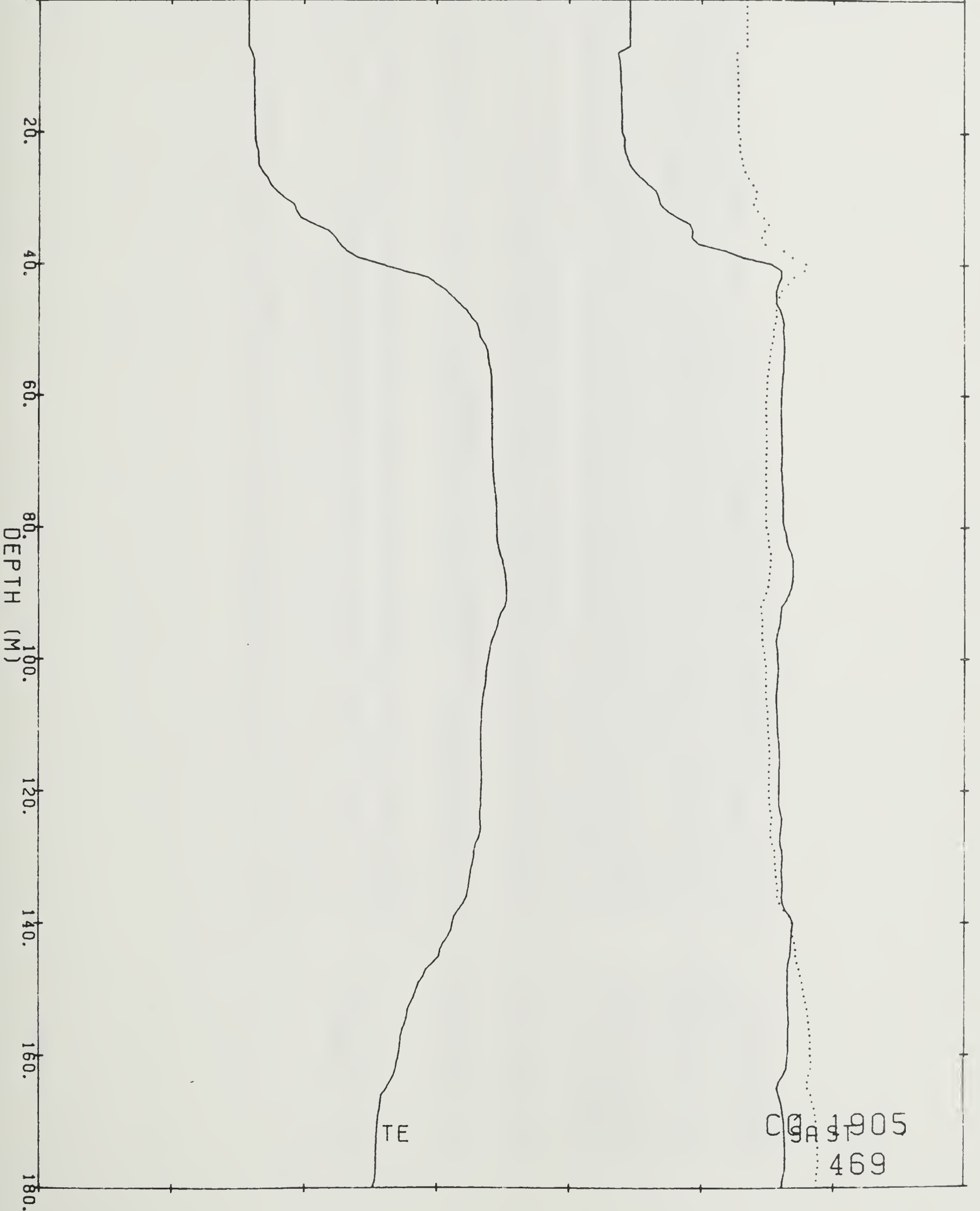
21. 22. 23. 24. 25. 26. 27. 28.

SALINITY (PPT)

30. 31. 32. 33. 34. 35. 36. 37.

TEMPERATURE (DEG C)

20. 10. 12. 14. 16. 18. 20. 22.



TE

CG 1905
469

SHIP CO CRUISE 19-05 STATION 470 POSITION 39 29.21 N 71 59.57 W
 LOCAL TIME 1544 DATE 76/ 1/11 WIND = 18knots DIR = 150 DEPTH= 888M

DTH	TEM	SAL	SGT	AND	DYN	SVL	DTH
0	10.451	33.997	26.092	191.0	0.000	1490.7	0.0
5	10.451	33.997	26.092	191.1	.010	1490.8	5.0
10	10.471	34.025	26.110	189.4	.019	1491.0	10.0
15	10.521	34.050	26.121	188.5	.029	1491.3	15.0
20	10.545	34.055	26.121	188.7	.038	1491.5	20.0
25	10.623	34.091	26.135	187.4	.047	1491.9	25.0
30	10.772	34.191	26.187	182.6	.057	1492.6	30.0
35	11.637	34.405	26.196	181.9	.066	1496.0	35.0
40	11.813	34.419	26.174	184.1	.075	1496.7	40.0
45	12.029	34.474	26.176	184.1	.084	1497.6	45.0
50	12.198	34.615	26.253	176.9	.093	1498.5	50.0
55	13.676	35.216	26.423	161.1	.102	1504.3	55.0
60	14.130	35.204	26.318	171.2	.110	1505.8	60.0
65	14.289	35.251	26.321	171.1	.118	1506.5	65.0
70	14.433	35.327	26.348	168.6	.127	1507.1	70.0
75	14.739	35.436	26.366	167.1	.135	1508.3	75.0
80	14.979	35.528	26.385	165.5	.144	1509.3	80.0
85	14.719	35.377	26.325	171.3	.152	1508.3	85.0
90	14.446	35.426	26.422	162.2	.160	1507.6	90.0
95	14.451	35.487	26.468	158.0	.168	1507.8	95.0
100	14.615	35.576	26.501	155.0	.176	1508.5	100.0
105	14.575	35.552	26.491	156.1	.184	1508.4	105.0
110	14.032	35.472	26.546	151.0	.192	1506.7	110.0
115	14.386	35.766	26.698	136.8	.199	1508.2	115.0
120	14.237	35.715	26.690	137.6	.206	1507.8	120.0
125	14.137	35.729	26.722	134.7	.213	1507.6	125.0
130	13.895	35.694	26.746	132.5	.219	1506.8	130.0
135	13.625	35.673	26.787	128.8	.226	1506.0	135.0
140	13.394	35.634	26.804	127.2	.232	1505.3	140.0
145	13.234	35.608	26.817	126.1	.238	1504.8	145.0
150	13.014	35.584	26.843	123.7	.245	1504.1	150.0
155	12.654	35.526	26.871	121.1	.251	1502.9	155.0
160	12.317	35.483	26.903	118.1	.257	1501.8	160.0
165	12.160	35.504	26.950	113.7	.263	1501.3	165.0
170	12.037	35.496	26.968	112.1	.268	1501.0	170.0
175	11.835	35.447	26.969	112.1	.274	1500.3	175.0
180	11.758	35.458	26.992	110.1	.279	1500.1	180.0
185	11.691	35.452	27.000	109.4	.285	1500.0	185.0
190	11.625	35.429	26.994	110.0	.290	1499.8	190.0
195	11.352	35.392	27.017	107.9	.296	1498.9	195.0
200	11.335	35.416	27.038	106.0	.301	1498.9	200.0
225	10.656	35.324	27.090	101.4	.327	1496.8	225.0
250	10.081	35.256	27.138	97.1	.352	1495.1	250.0
275	9.620	35.170	27.150	96.4	.376	1493.7	275.0
300	9.112	35.176	27.238	88.2	.399	1492.2	300.0
325	8.674	35.123	27.267	85.7	.421	1490.9	325.0
350	8.130	35.090	27.325	80.3	.442	1489.2	350.0
375	7.491	35.048	27.387	74.5	.461	1487.1	375.0
400	6.851	35.047	27.477	65.9	.479	1485.0	400.0
425	6.577	35.033	27.503	63.6	.495	1484.4	425.0
450	6.346	35.050	27.547	59.6	.510	1483.9	450.0
475	6.065	34.964	27.516	62.6	.525	1483.0	475.0
500	5.836	35.030	27.597	55.0	.540	1482.6	500.0
600	4.960	34.977	27.662	49.1	.592	1480.6	600.0
700	4.568	34.990	27.717	44.5	.639	1480.7	700.0
800	4.435	34.991	27.732	43.9	.683	1481.8	800.0
878	4.274	34.983	27.744	43.3	.717	1482.4	878.0

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
0	10.530	34.068	6.19	0.44		4.50		
94	14.570	35.643	4.14	0.73		6.33		
124	13.600	35.527	4.25	0.83		6.51		
200	11.020	35.406	3.40	1.42		11.42		
269	9.330	35.204	3.21	1.62		15.09		
353	7.640	35.099	3.76	1.60		15.46		
441	6.330	35.051	4.52	1.49		14.77		
614		35.000	5.57	1.30		13.07		
692	4.570	34.985						
695	4.540	34.991	5.70	1.28		12.61		
861	4.310	34.988	5.87	1.26		12.61		

SIGMA-T

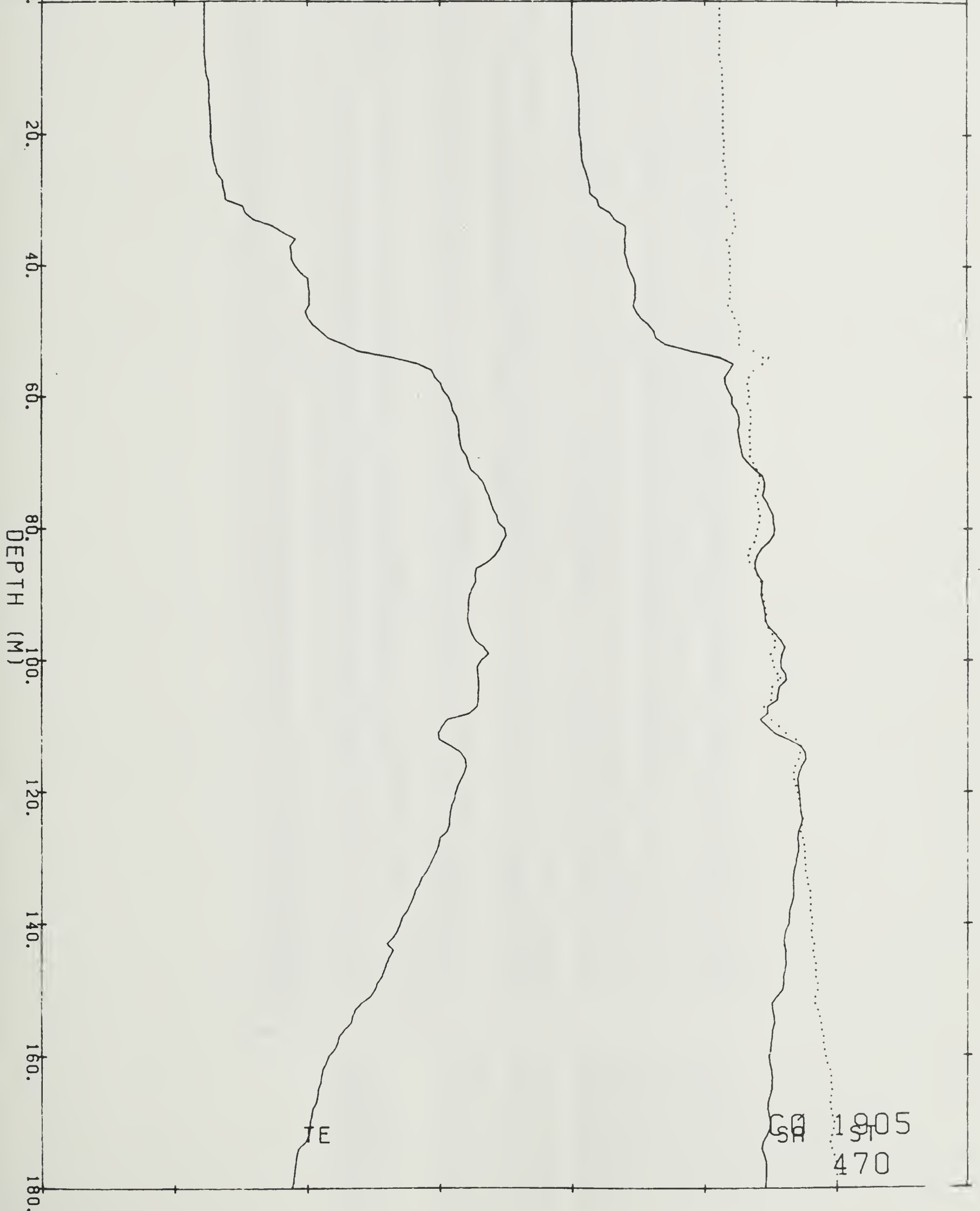
21. 22. 23. 24. 25. 26. 27. 28.

SALINITY (PPT)

30. 31. 32. 33. 34. 35. 36. 37.

TEMPERATURE (DEG C)

8. 10. 12. 14. 16. 18. 20. 22.



TE

GA 1805
SA 470

SHIP CD CRUISE 19-05 STATION 471 POSITION 39 18.72 N 71 5.39 W
 LOCAL TIME 1856 DATE 76/ 1/11 WIND = 20knots DIR = 230 DEPTH=2010M

OTH	TEM	SAL	SGT	ANO	DYN	SVL	OTH	
0	11.363	34.347	26.201	180.6	0.000	1494.4	0.0	
5	11.363	34.347	26.201	180.7	.009	1494.5	5.0	
10	11.363	34.347	26.201	180.8	.018	1494.6	10.0	
15	11.376	34.361	26.210	180.1	.027	1494.7	15.0	
20	11.370	34.355	26.206	180.5	.036	1494.8	20.0	
25	11.377	34.362	26.210	180.3	.045	1494.9	25.0	
30	11.375	34.364	26.212	180.2	.054	1495.0	30.0	
35	11.371	34.371	26.219	179.7	.063	1495.1	35.0	
40	11.452	34.399	26.225	179.2	.072	1495.5	40.0	
45	11.467	34.383	26.210	180.8	.081	1495.6	45.0	
50	11.481	34.398	26.219	180.0	.090	1495.7	50.0	
55	12.059	34.837	26.452	158.1	.099	1498.4	55.0	
60	12.662	34.889	26.375	165.6	.107	1500.6	60.0	
65	13.068	35.084	26.445	159.2	.115	1502.3	65.0	
70	13.256	35.030	26.365	166.9	.123	1502.9	70.0	
75	13.285	35.073	26.392	164.4	.131	1503.1	75.0	
80	13.373	35.141	26.427	161.3	.139	1503.6	80.0	
85	13.406	35.122	26.406	163.5	.147	1503.8	85.0	
90	13.493	35.358	26.570	148.0	.155	1504.4	90.0	
95	14.344	35.536	26.529	152.2	.163	1507.5	95.0	
100	14.491	35.556	26.513	153.9	.170	1508.1	100.0	
105	14.887	35.554	26.425	162.4	.178	1509.4	105.0	
110	14.437	35.531	26.505	154.9	.186	1508.0	110.0	
115	14.497	35.705	26.627	143.6	.194	1508.5	115.0	
120	14.548	35.671	26.589	147.3	.201	1508.7	120.0	
125	14.283	35.735	26.696	137.3	.208	1508.0	125.0	
130	14.256	35.787	26.742	133.0	.215	1508.1	130.0	
135	14.288	35.779	26.729	134.4	.222	1508.3	135.0	
140	14.006	35.710	26.735	133.9	.228	1507.4	140.0	
145	13.913	35.757	26.792	128.7	.235	1507.2	145.0	
150	13.789	35.716	26.786	129.3	.241	1506.8	150.0	
155	13.526	35.674	26.808	127.3	.248	1506.0	155.0	
160	13.455	35.694	26.838	124.5	.254	1505.9	160.0	
165	13.325	35.682	26.856	123.0	.260	1505.5	165.0	
170	13.245	35.679	26.870	121.8	.266	1505.3	170.0	
175	13.107	35.636	26.865	122.3	.272	1504.9	175.0	
180	12.994	35.590	26.852	123.7	.279	1504.5	180.0	
185	12.715	35.560	26.885	120.6	.285	1503.6	185.0	
190	12.485	35.467	26.858	123.2	.291	1502.8	190.0	
195	12.206	35.483	26.925	116.9	.297	1502.0	195.0	
200	12.106	35.482	26.944	115.2	.303	1501.7	200.0	
225	11.385	35.427	27.038	106.7	.330	1499.5	225.0	
250	10.563	35.310	27.096	101.4	.356	1496.9	250.0	
275	9.788	35.262	27.193	92.4	.381	1494.4	275.0	
300	9.018	35.177	27.254	86.7	.403	1491.9	300.0	
325	8.438	35.123	27.304	82.1	.424	1490.0	325.0	
350	8.099	35.126	27.358	77.2	.444	1489.2	350.0	
375	7.712	35.083	27.382	75.1	.463	1488.0	375.0	
400	7.396	35.089	27.433	70.5	.481	1487.2	400.0	
425	6.852	35.069	27.494	64.7	.498	1485.5	425.0	
450	6.393	35.058	27.547	59.6	.514	1484.1	450.0	
475	6.035	35.048	27.586	55.9	.528	1483.0	475.0	
500	5.770	35.037	27.611	53.6	.542	1482.4	500.0	
600	5.126	35.026	27.681	47.5	.592	1481.4	600.0	
700	4.720	35.004	27.711	45.3	.639	1481.3	700.0	
800	4.478	35.014	27.746	42.7	.683	1482.0	800.0	
900	4.274	35.008	27.763	41.6	.725	1482.8	900.0	
1000	4.180	35.007	27.773	41.6	.766	1484.0	1000.0	
1100	4.110	35.007	27.780	41.6	.808	1485.4	1100.0	
1200	4.051	35.005	27.785	42.0	.850	1486.8	1200.0	
1300	3.970	35.004	27.793	42.0	.892	1488.1	1300.0	
1400	3.927	35.002	27.796	42.5	.934	1489.6	1400.0	
1500	3.867	35.002	27.802	42.6	.977	1491.0	1500.0	
1600	3.766	35.001	27.811	42.2	1.019	1492.2	1600.0	
1700	3.668	34.997	27.818	42.0	1.061	1493.4	1700.0	
1800	3.469	34.991	27.833	40.6	1.102	1494.3	1800.0	
1900	3.412	34.986	27.835	41.0	1.143	1495.7	1900.0	
2000	3.392	34.982	27.834	41.7	1.184	1497.2	1999.0	
OTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
0	11.380	34.358	5.95	0.47		4.06		
121	14.300	35.792	4.02	0.85		6.38		
255	9.840	35.259	3.24	1.50		13.61		
343	7.910	35.104	3.67	1.60		15.66		
525	5.410	35.017	5.04	1.39		13.61		
691	4.720	34.999	5.65	1.30		12.36		
940	4.230	35.002	6.01	1.24		12.09		
1210	4.050	34.997	6.06	1.20		12.27		
1438	3.910	34.999	6.14	1.19		13.79		
1702	3.550	34.993	6.15	1.20		14.59		
1939	3.430	34.984	6.03	1.20		15.49		

SIGMA-T

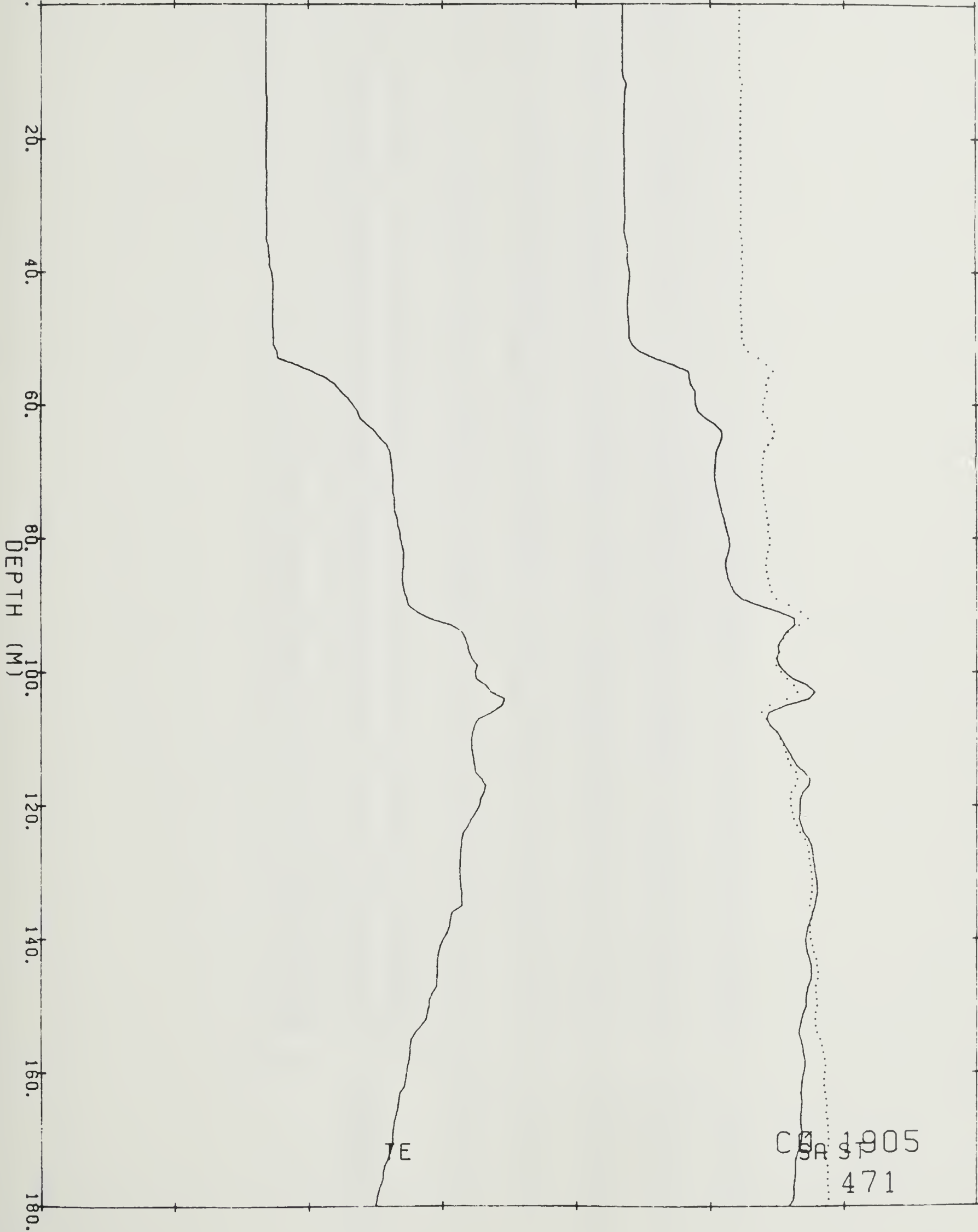
21. 22. 23. 24. 25. 26. 27. 28.

SALINITY (PPT)

30. 31. 32. 33. 34. 35. 36. 37.

TEMPERATURE (DEG. C)

8. 10. 12. 14. 16. 18. 20. 22.



TE

CSR 1905
471

SHIP CO CRUISE 19-05 STATION 472 POSITION 39 4.80 N 71 42.77 W
 LOCAL TIME 635 DATE 76/ 1/12 WIND = 24knots DIR = 340 DEPTH=2297M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	DTH
0	13.704	35.399	26.558	146.7	0.000	1503.7	0.0
5	13.704	35.399	26.558	146.8	.007	1503.8	5.0
10	13.704	35.399	26.558	147.0	.015	1503.9	10.0
15	13.693	35.400	26.561	146.8	.022	1503.9	15.0
20	13.678	35.400	26.565	146.6	.029	1503.9	20.0
25	13.680	35.401	26.565	146.7	.037	1504.0	25.0
30	13.709	35.407	26.563	147.0	.044	1504.2	30.0
35	13.711	35.409	26.565	147.0	.051	1504.3	35.0
40	13.720	35.408	26.562	147.4	.059	1504.4	40.0
45	13.718	35.410	26.564	147.4	.066	1504.5	45.0
50	13.722	35.411	26.564	147.5	.073	1504.6	50.0
55	13.725	35.413	26.565	147.6	.081	1504.7	55.0
60	13.730	35.424	26.572	147.0	.088	1504.8	60.0
65	13.743	35.427	26.572	147.2	.096	1504.9	65.0
70	13.752	35.427	26.570	147.5	.103	1505.0	70.0
75	13.757	35.440	26.579	146.8	.110	1505.2	75.0
80	13.766	35.444	26.580	146.8	.118	1505.3	80.0
85	13.783	35.462	26.591	146.0	.125	1505.4	85.0
90	13.817	35.473	26.592	146.0	.132	1505.6	90.0
95	13.844	35.480	26.592	146.2	.140	1505.8	95.0
100	13.857	35.484	26.592	146.3	.147	1505.9	100.0
105	13.872	35.493	26.596	146.1	.154	1506.1	105.0
110	13.895	35.528	26.618	144.1	.161	1506.3	110.0
115	13.918	35.518	26.605	145.4	.169	1506.4	115.0
120	14.119	35.741	26.735	133.3	.176	1507.4	120.0
125	14.230	35.721	26.696	137.2	.182	1507.9	125.0
130	14.118	35.774	26.761	131.2	.189	1507.6	130.0
135	13.819	35.723	26.785	129.0	.196	1506.7	135.0
140	13.629	35.640	26.760	131.4	.202	1506.0	140.0
145	13.287	35.644	26.834	124.5	.209	1505.0	145.0
150	13.164	35.644	26.859	122.2	.215	1504.7	150.0
155	13.065	35.638	26.875	120.9	.221	1504.4	155.0
160	12.884	35.572	26.860	122.3	.227	1503.8	160.0
165	12.705	35.583	26.904	118.2	.233	1503.3	165.0
170	12.633	35.577	26.914	117.4	.239	1503.1	170.0
175	12.474	35.528	26.908	118.1	.245	1502.6	175.0
180	12.250	35.474	26.910	118.0	.251	1501.9	180.0
185	12.030	35.479	26.956	113.6	.256	1501.2	185.0
190	11.865	35.460	26.973	112.1	.262	1500.7	190.0
195	11.576	35.391	26.974	112.0	.268	1499.7	195.0
200	11.413	35.434	27.038	106.1	.273	1499.2	200.0
225	10.778	35.339	27.080	102.4	.299	1497.3	225.0
250	9.844	35.211	27.144	96.5	.324	1494.2	250.0
275	9.341	35.195	27.216	90.0	.347	1492.7	275.0
300	8.760	35.114	27.246	87.3	.369	1490.8	300.0
325	8.209	35.106	27.326	79.9	.390	1489.2	325.0
350	7.803	35.050	27.343	78.4	.410	1487.9	350.0
375	7.158	35.028	27.419	71.2	.429	1485.8	375.0
400	6.767	35.020	27.467	66.7	.446	1484.7	400.0
425	6.363	35.024	27.525	61.3	.462	1483.5	425.0
450	5.966	35.028	27.579	56.2	.477	1482.3	450.0
475	5.653	34.993	27.591	55.1	.491	1481.4	475.0
500	5.394	34.999	27.628	51.7	.504	1480.8	500.0
600	5.039	35.013	27.681	47.4	.554	1481.0	600.0
700	4.720	35.008	27.714	45.0	.600	1481.3	700.0
800	4.493	34.998	27.732	44.0	.644	1482.0	800.0
900	4.348	34.988	27.740	44.0	.688	1483.0	900.0
1000	4.225	34.985	27.750	43.7	.732	1484.2	1000.0
1100	4.138	34.993	27.766	43.0	.776	1485.5	1100.0
1200	3.982	34.981	27.773	42.9	.819	1486.4	1200.0
1300	3.919	34.985	27.783	42.7	.861	1487.8	1300.0
1400	3.865	34.982	27.786	43.1	.904	1489.3	1400.0
1500	3.808	34.983	27.793	43.2	.947	1490.7	1500.0
1600	3.716	34.979	27.799	43.1	.991	1492.0	1600.0
1700	3.625	34.979	27.808	42.8	1.034	1493.2	1700.0
1800	3.552	34.973	27.811	43.0	1.076	1494.6	1800.0
1900	3.479	34.969	27.815	43.1	1.120	1495.9	1900.0
2000	3.427	34.965	27.817	43.5	1.163	1497.4	2000.0
2100	3.129	34.950	27.833	41.2	1.205	1497.8	2100.0
2200	2.984	34.944	27.842	40.4	1.246	1498.8	2200.0
2285	2.929	34.936	27.841	40.7	1.280	1500.0	2285.0

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
0	13.690	35.421	5.47	0.44		3.57		
127	13.270	35.675	4.06	0.95		6.78		
392	6.470	35.058	4.35	1.48		13.97		
571	5.050	35.016	5.36	1.31		12.72		
859	4.390	34.977	6.12	1.24		13.45		
1190	3.960	34.957	6.09	1.23		12.32		
1701	3.620	34.973	6.15	1.22		14.06		
1920	3.470	34.973	6.22	1.22		15.26		
2080	3.070	34.957	6.21	1.21		12.18		
2215	2.980	34.956	6.16	1.19		17.63		

SIGMA-T

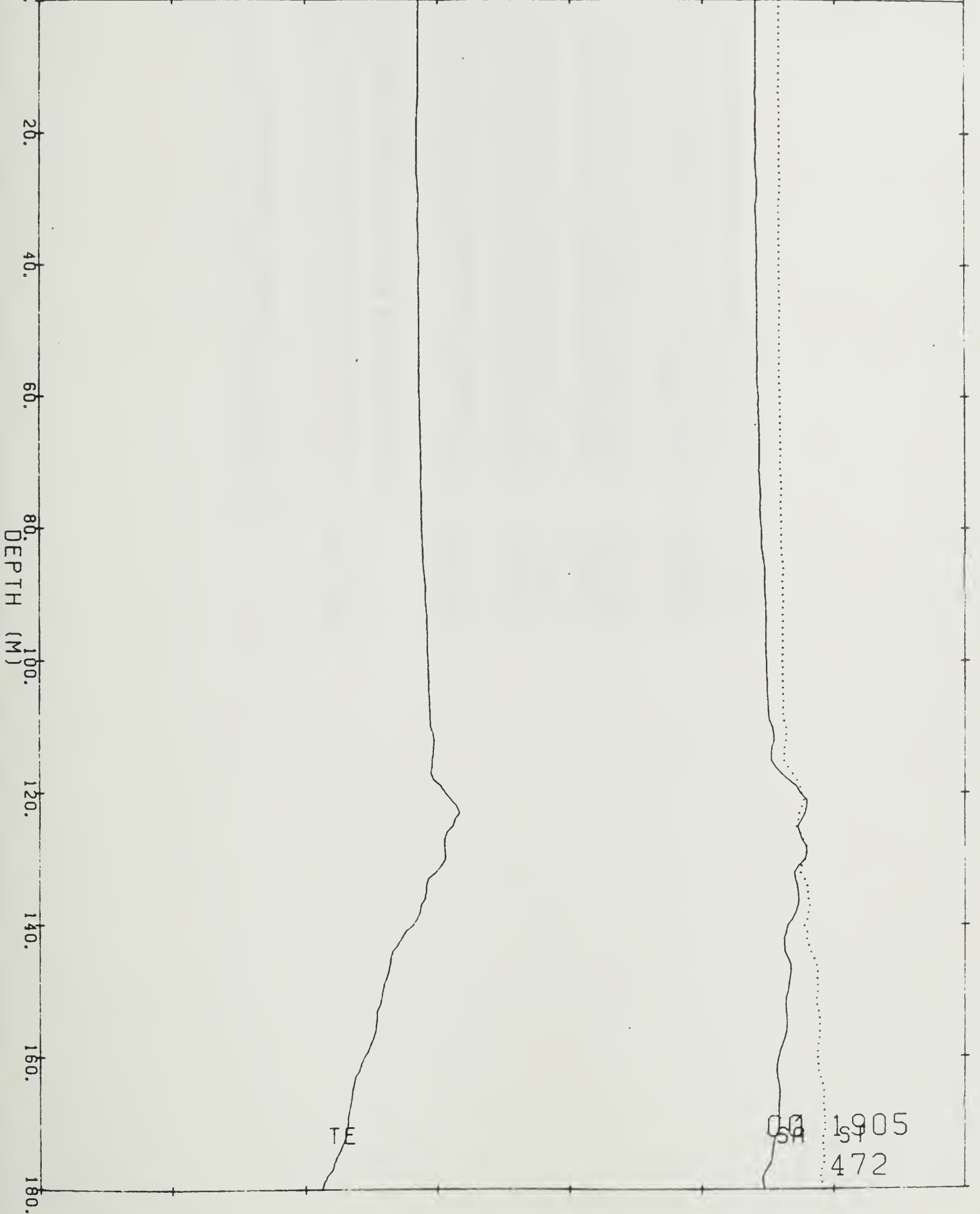
21. 22. 23. 24. 25. 26. 27. 28.

SALINITY (PPT)

30. 31. 32. 33. 34. 35. 36. 37.

TEMPERATURE (DEG C)

8. 10. 12. 14. 16. 18. 20. 22.



SHIP CO CRUISE 19-05 STATION 473 POSITION 39 15.30 N 72 34.98 W
 LOCAL TIME 2102 DATE 76/ 1/13 WIND = 8knots DIR = 330 DEPTH= 138M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	DTH
0	11.951	34.617	26.301	171.1	0.000	1496.8	0.0
5	11.951	34.617	26.301	171.2	.009	1496.9	5.0
10	11.959	34.593	26.281	173.2	.017	1497.0	10.0
15	11.942	34.575	26.270	174.4	.026	1497.0	15.0
20	11.938	34.573	26.270	174.6	.035	1497.0	20.0
25	11.951	34.581	26.273	174.3	.043	1497.2	25.0
30	11.941	34.580	26.275	174.3	.052	1497.2	30.0
35	11.949	34.591	26.282	173.8	.061	1497.3	35.0
40	12.012	34.621	26.293	172.8	.069	1497.7	40.0
45	12.169	34.679	26.308	171.5	.078	1498.4	45.0
50	12.247	34.701	26.310	171.5	.087	1498.8	50.0
55	12.328	34.761	26.341	168.7	.095	1499.2	55.0
60	12.406	34.797	26.354	167.6	.103	1499.6	60.0
65	12.436	34.814	26.361	167.0	.112	1499.8	65.0
70	12.493	34.823	26.357	167.6	.120	1500.1	70.0
75	12.503	34.830	26.360	167.4	.129	1500.2	75.0
80	12.513	34.832	26.360	167.5	.137	1500.3	80.0
85	12.512	34.838	26.365	167.2	.145	1500.4	85.0
90	12.493	34.836	26.367	167.1	.154	1500.4	90.0
95	12.496	34.839	26.369	167.1	.162	1500.5	95.0
100	12.499	34.828	26.359	168.1	.170	1500.6	100.0
105	12.474	34.838	26.372	167.0	.179	1500.6	105.0
110	12.520	34.860	26.380	166.4	.187	1500.9	110.0
115	12.844	35.061	26.472	157.9	.195	1502.3	115.0
120	13.307	35.168	26.461	159.1	.203	1504.1	120.0
125	13.765	35.392	26.540	151.9	.211	1505.9	125.0
130	14.017	35.429	26.516	154.4	.219	1506.9	130.0
135	14.033	35.427	26.511	155.0	.226	1507.0	135.0
136	14.038	35.430	26.512	154.9	.228	1507.0	136.0

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
0	11.940	34.594	5.91	0.39		4.03		
21	11.960	34.590	5.90	0.40		4.03		
38	12.320	34.740	5.83	0.40		4.12		
58	12.500	34.832	5.76	0.38		3.94		
73	12.540	34.836	5.78	0.39		3.94		
124	14.050	35.421	4.93	0.50		4.62		

SIGMA-T

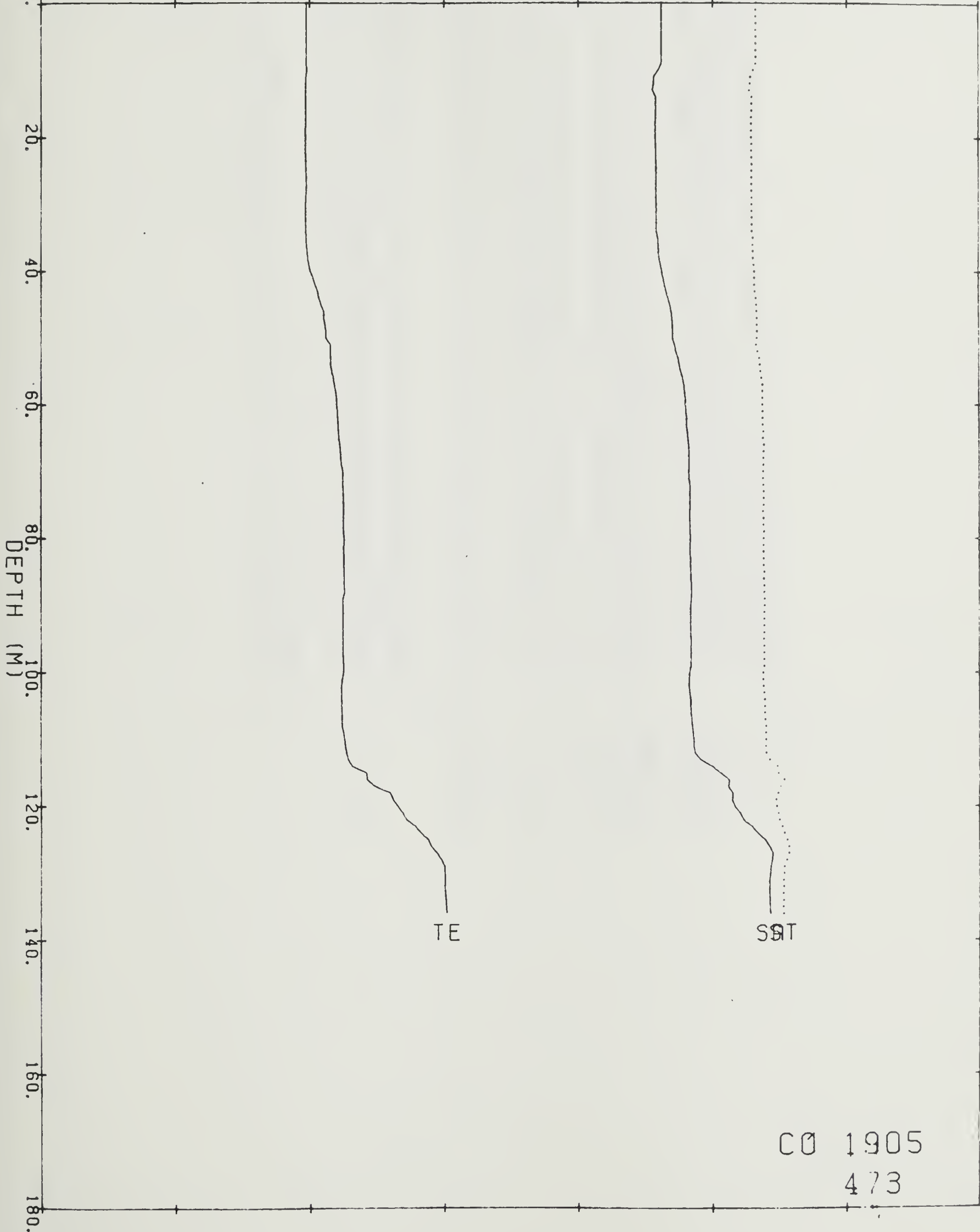
21. 22. 23. 24. 25. 26. 27. 28.

SALINITY (PPT)

30. 31. 32. 33. 34. 35. 36. 37.

TEMPERATURE (DEG C)

8. 10. 12. 14. 16. 18. 20. 22.



SHIP CD CRUISE 19-05 STATION 474 POSITION 39 11.88 N 72 32.51 W
 LOCAL TIME 2255 DATE 76/ 1/13 WIND = 5knots DIR = 350 DEPTH= 205M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	DTH
0	10.888	34.170	26.150	185.5	0.000	1492.5	0.0
5	10.888	34.170	26.150	185.6	.009	1492.6	5.0
10	10.910	34.159	26.137	186.9	.019	1492.8	10.0
15	10.918	34.175	26.148	185.9	.028	1492.9	15.0
20	10.932	34.180	26.150	185.9	.037	1493.0	20.0
25	10.931	34.177	26.147	186.2	.047	1493.1	25.0
30	10.931	34.175	26.146	186.5	.056	1493.2	30.0
35	10.935	34.175	26.145	186.7	.065	1493.3	35.0
40	10.957	34.200	26.161	185.3	.074	1493.5	40.0
45	11.004	34.230	26.176	184.0	.084	1493.7	45.0
50	11.019	34.268	26.202	181.6	.093	1493.9	50.0
55	11.092	34.333	26.240	178.1	.102	1494.3	55.0
60	11.623	34.739	26.458	157.6	.110	1496.8	60.0
65	12.560	35.066	26.532	150.8	.118	1500.5	65.0
70	12.815	35.072	26.486	155.3	.126	1501.5	70.0
75	12.885	35.066	26.468	157.2	.133	1501.8	75.0
80	12.924	35.083	26.473	156.9	.141	1502.0	80.0
85	12.955	35.076	26.461	158.1	.149	1502.2	85.0
90	13.093	35.086	26.441	160.1	.157	1502.8	90.0
95	13.165	35.170	26.492	155.5	.165	1503.2	95.0
100	13.307	35.262	26.534	151.7	.173	1503.8	100.0
105	13.426	35.383	26.604	145.2	.180	1504.5	105.0
110	14.021	35.625	26.667	139.5	.187	1506.8	110.0
115	14.455	35.672	26.610	145.1	.194	1508.4	115.0
120	14.205	35.681	26.671	139.5	.201	1507.6	120.0
125	14.089	35.687	26.700	136.8	.208	1507.4	125.0
130	14.020	35.677	26.707	136.3	.215	1507.2	130.0
135	13.828	35.669	26.741	133.1	.222	1506.6	135.0
140	13.736	35.683	26.771	130.4	.228	1506.4	140.0
145	13.484	35.675	26.818	126.1	.235	1505.7	145.0
150	13.510	35.673	26.811	126.9	.241	1505.8	150.0
155	13.461	35.705	26.846	123.7	.247	1505.8	155.0
160	13.448	35.699	26.844	124.0	.254	1505.8	160.0
165	13.401	35.708	26.860	122.6	.260	1505.8	165.0
170	13.396	35.700	26.855	123.2	.266	1505.8	170.0
175	13.378	35.694	26.854	123.4	.272	1505.8	175.0
180	13.362	35.697	26.860	123.0	.278	1505.9	180.0
185	13.371	35.701	26.861	123.0	.284	1506.0	185.0
190	13.280	35.679	26.863	123.0	.291	1505.7	190.0
195	12.891	35.471	26.780	130.8	.297	1504.3	195.0
200	12.227	35.560	26.981	111.7	.303	1502.2	200.0
202	12.204	35.566	26.990	110.9	.305	1502.2	202.0

DTH	TEM	SAL	DXG	PHOS	NITR	SIL	NO2	AMM
5	10.900	34.179	6.09	0.40		4.12		
39	11.040	34.240	6.07	0.41		4.07		
77	13.080	35.112	5.51	0.42		4.16		
113	14.100	35.714	4.08	0.79		6.24		
149	13.470	35.701	3.96	0.93		7.24		
186	12.240	35.562	3.69	1.13		9.41		

SIGMA-T

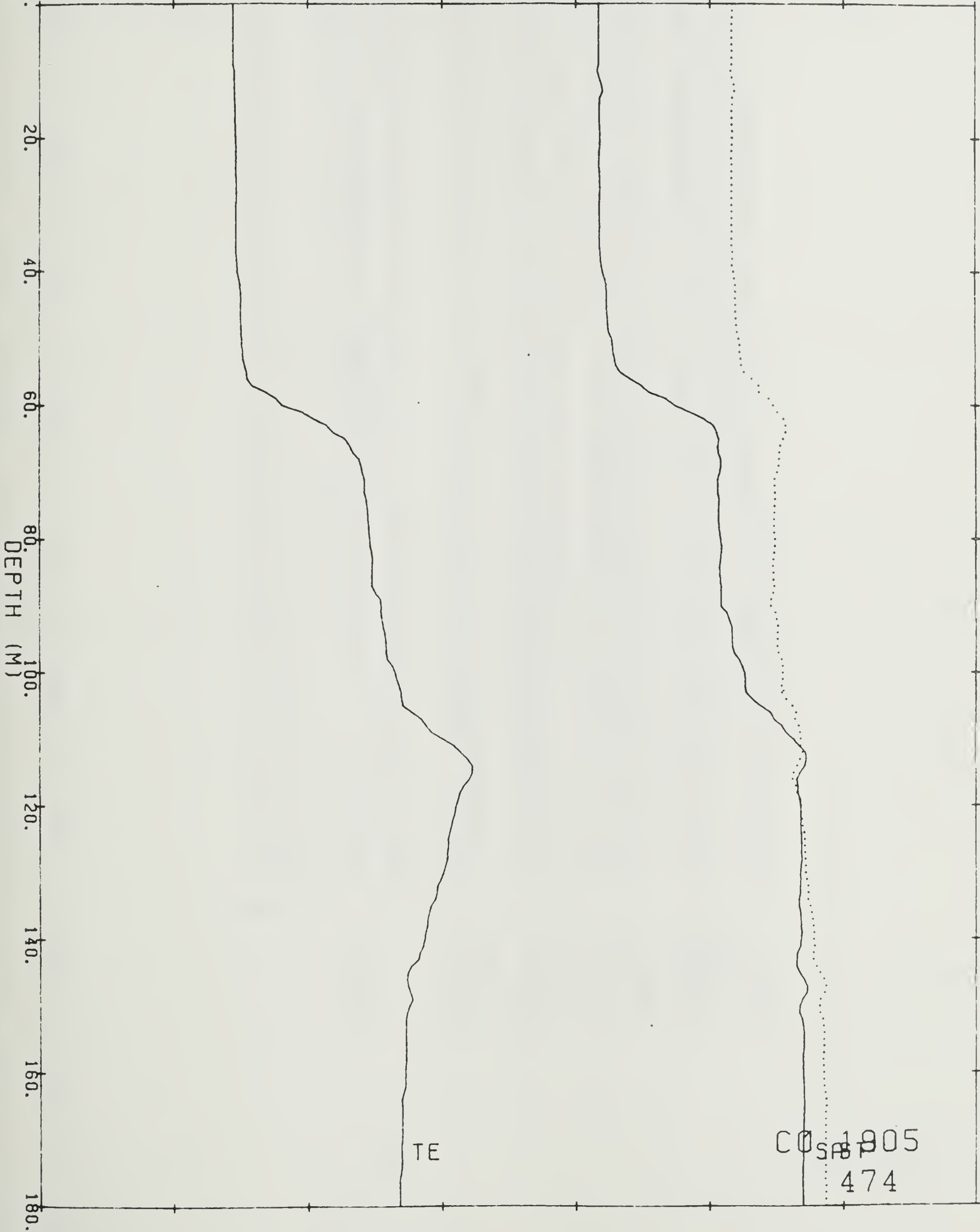
21. 22. 23. 24. 25. 26. 27. 28.

SALINITY (PPT)

30. 31. 32. 33. 34. 35. 36. 37.

TEMPERATURE (DEG C)

8. 10. 12. 14. 16. 18. 20. 22.



SHIP CO CRUISE 19-05 STATION 475 POSITION 39 8.28 N 72 29.10 W
 LOCAL TIME 442 DATE 76/ 1/13 WIND = 2knots DIR = 140 DEPTH= 600M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	DTH
0	12.565	35.014	26.491	153.1	0.000	1499.4	0.0
5	12.565	35.014	26.491	153.2	.008	1499.5	5.0
10	12.565	35.010	26.488	153.6	.015	1499.6	10.0
15	12.569	35.004	26.482	154.3	.023	1499.7	15.0
20	12.570	35.008	26.485	154.1	.031	1499.8	20.0
25	12.582	35.006	26.481	154.6	.038	1499.9	25.0
30	12.586	35.007	26.481	154.8	.046	1500.0	30.0
35	12.588	35.008	26.482	154.8	.054	1500.1	35.0
40	12.586	35.008	26.482	154.9	.062	1500.1	40.0
45	12.595	35.027	26.495	153.8	.069	1500.3	45.0
50	12.630	35.023	26.485	154.9	.077	1500.5	50.0
55	12.626	35.022	26.485	155.0	.085	1500.5	55.0
60	12.635	35.027	26.487	155.0	.093	1500.7	60.0
65	12.659	35.038	26.491	154.7	.100	1500.8	65.0
70	12.652	35.026	26.483	155.6	.108	1500.9	70.0
75	12.814	35.213	26.596	145.1	.116	1501.7	75.0
80	13.676	35.350	26.526	151.9	.123	1504.9	80.0
85	13.536	35.320	26.532	151.5	.131	1504.4	85.0
90	13.547	35.315	26.526	152.2	.138	1504.5	90.0
95	13.608	35.377	26.561	149.0	.146	1504.9	95.0
100	13.767	35.463	26.595	146.0	.153	1505.6	100.0
105	13.874	35.517	26.614	144.3	.160	1506.1	105.0
110	13.999	35.546	26.610	144.9	.168	1506.6	110.0
115	14.187	35.725	26.709	135.7	.175	1507.6	115.0
120	14.218	35.762	26.730	133.8	.181	1507.8	120.0
125	13.917	35.714	26.757	131.3	.188	1506.8	125.0
130	13.627	35.715	26.819	125.6	.194	1506.0	130.0
135	13.532	35.682	26.813	126.3	.201	1505.7	135.0
140	13.342	35.684	26.854	122.5	.207	1505.1	140.0
145	13.354	35.675	26.844	123.5	.213	1505.3	145.0
150	13.331	35.669	26.844	123.7	.219	1505.3	150.0
155	13.173	35.665	26.874	121.0	.225	1504.8	155.0
160	13.109	35.649	26.874	121.0	.231	1504.6	160.0
165	12.897	35.609	26.886	120.0	.237	1504.0	165.0
170	12.797	35.635	26.927	116.3	.243	1503.7	170.0
175	12.761	35.622	26.924	116.7	.249	1503.7	175.0
180	12.515	35.577	26.938	115.4	.255	1502.9	180.0
185	12.504	35.588	26.948	114.5	.261	1502.9	185.0
190	12.374	35.526	26.926	116.8	.267	1502.5	190.0
195	12.171	35.531	26.969	112.7	.272	1501.9	195.0
200	12.117	35.522	26.973	112.5	.278	1501.8	200.0
225	11.483	35.438	27.028	107.6	.305	1499.9	225.0
250	10.594	35.352	27.123	98.8	.331	1497.1	250.0
275	9.790	35.257	27.189	92.8	.355	1494.4	275.0
300	9.316	35.205	27.228	89.4	.378	1493.0	300.0
325	8.896	35.147	27.250	87.5	.400	1491.8	325.0
350	8.520	35.115	27.285	84.4	.422	1490.8	350.0
375	7.763	35.093	27.383	75.1	.441	1488.2	375.0
400	7.376	35.095	27.441	69.8	.460	1487.2	400.0
425	7.023	35.072	27.473	66.8	.477	1486.2	425.0
450	6.372	34.970	27.481	65.8	.493	1483.9	450.0
475	5.820	34.997	27.573	56.9	.509	1482.1	475.0
500	5.519	35.039	27.644	50.3	.522	1481.4	500.0
579	5.030	35.025	27.692	46.2	.560	1480.6	579.0

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
2	12.570	35.021	5.70	0.42		3.67		
60	12.660	35.038	5.74	0.42		3.57		
72	13.540	35.348	5.52	0.40		3.35		
197	11.930	35.518	3.65	1.18		9.46		
381	7.420	35.100	3.94	1.55		14.80		
555	5.060	35.015	5.40	1.34		13.17		

SIGMA-T

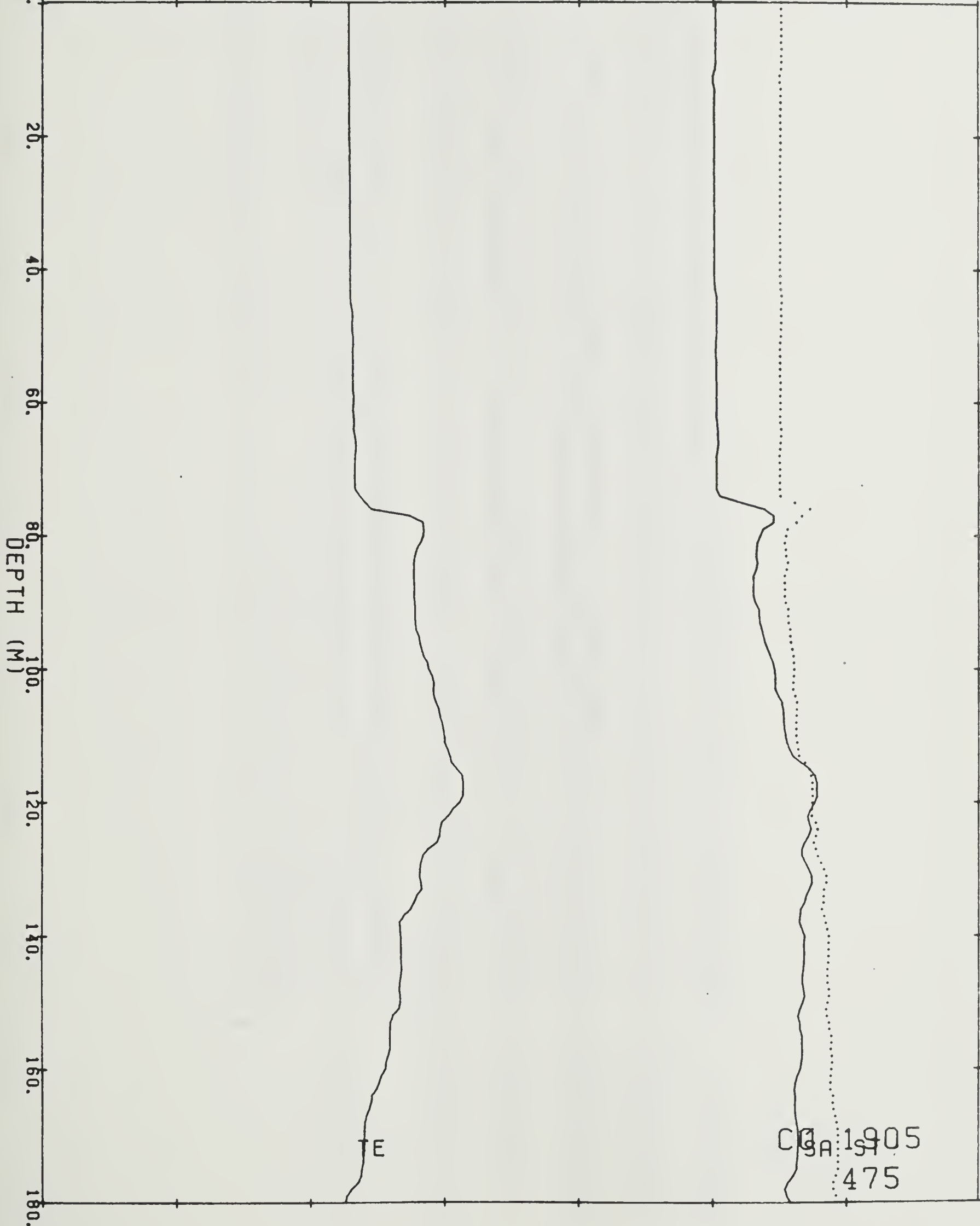
21. 22. 23. 24. 25. 26. 27. 28.

SALINITY (PPT)

30. 31. 32. 33. 34. 35. 36. 37.

TEMPERATURE (DEG C)

8. 10. 12. 14. 16. 18. 20. 22.



SHIP CO CRUISE 19-05 STATION 476 POSITION 39 .72 N 72 13.92 W
 LOCAL TIME 733 DATE 76/ 1/13 WIND = 6knots DIR = 170 DEPTH=1989M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	DTH
0	12.422	34.966	26.482	153.9	0.000	1498.9	0.0
5	12.422	34.966	26.482	154.1	.008	1499.0	5.0
10	12.424	34.975	26.488	153.6	.015	1499.1	10.0
15	12.469	34.939	26.451	157.2	.023	1499.2	15.0
20	12.656	35.105	26.544	148.6	.031	1500.2	20.0
25	12.841	35.122	26.520	151.0	.038	1500.9	25.0
30	12.898	35.129	26.514	151.7	.046	1501.2	30.0
35	12.938	35.147	26.520	151.3	.053	1501.4	35.0
40	12.994	35.151	26.512	152.2	.061	1501.7	40.0
45	12.990	35.152	26.513	152.1	.069	1501.8	45.0
50	12.982	35.149	26.513	152.3	.076	1501.8	50.0
55	12.977	35.158	26.521	151.7	.084	1501.9	55.0
60	13.004	35.167	26.522	151.7	.091	1502.1	60.0
65	13.190	35.245	26.545	149.7	.099	1502.9	65.0
70	13.301	35.251	26.527	151.5	.106	1503.3	70.0
75	13.323	35.261	26.530	151.4	.114	1503.5	75.0
80	13.331	35.259	26.527	151.8	.122	1503.6	80.0
85	13.336	35.264	26.530	151.7	.129	1503.7	85.0
90	13.347	35.270	26.532	151.6	.137	1503.8	90.0
95	13.377	35.270	26.526	152.3	.144	1504.0	95.0
100	13.426	35.325	26.559	149.4	.152	1504.3	100.0
105	13.489	35.333	26.552	150.2	.159	1504.6	105.0
110	13.486	35.336	26.555	150.0	.167	1504.7	110.0
115	13.506	35.368	26.575	148.2	.174	1504.9	115.0
120	13.718	35.480	26.618	144.3	.182	1505.8	120.0
125	14.539	35.979	26.829	124.7	.188	1509.2	125.0
130	14.777	35.936	26.744	133.0	.195	1510.0	130.0
135	14.753	35.908	26.727	134.6	.202	1509.9	135.0
140	14.510	35.810	26.705	136.9	.208	1509.1	140.0
145	14.235	35.819	26.771	130.7	.215	1508.3	145.0
150	14.150	35.788	26.765	131.4	.222	1508.1	150.0
155	13.851	35.749	26.798	128.3	.228	1507.1	155.0
160	13.708	35.745	26.825	125.8	.234	1506.8	160.0
165	13.613	35.745	26.845	124.1	.241	1506.5	165.0
170	13.474	35.709	26.846	124.1	.247	1506.1	170.0
175	13.136	35.625	26.850	123.7	.253	1505.0	175.0
180	13.033	35.592	26.846	124.3	.259	1504.7	180.0
185	12.744	35.597	26.908	118.4	.265	1503.8	185.0
190	12.684	35.609	26.929	116.6	.271	1503.7	190.0
195	12.673	35.618	26.938	115.8	.277	1503.7	195.0
200	12.605	35.535	26.887	120.7	.283	1503.5	200.0
225	11.827	35.497	27.009	109.6	.312	1501.2	225.0
250	11.072	35.370	27.051	105.9	.339	1498.8	250.0
275	10.140	35.235	27.112	100.2	.364	1495.7	275.0
300	9.329	35.184	27.209	91.1	.388	1493.0	300.0
325	8.798	35.146	27.265	86.0	.410	1491.4	325.0
350	8.224	35.121	27.335	79.5	.431	1489.6	350.0
375	7.661	35.091	27.396	73.8	.450	1487.9	375.0
400	7.102	35.081	27.469	66.9	.468	1486.1	400.0
425	6.749	35.081	27.518	62.4	.484	1485.1	425.0
450	6.451	35.049	27.533	61.0	.499	1484.3	450.0
475	6.071	35.057	27.589	55.7	.514	1483.2	475.0
500	5.710	35.037	27.619	52.8	.528	1482.1	500.0
600	5.083	35.032	27.691	46.6	.577	1481.2	600.0
700	4.762	35.024	27.722	44.3	.623	1481.5	700.0
800	4.497	35.013	27.743	43.0	.666	1482.0	800.0
900	4.323	35.004	27.755	42.5	.709	1483.0	900.0
1000	4.202	35.005	27.769	42.0	.751	1484.1	1000.0
1100	4.097	34.999	27.775	42.1	.793	1485.3	1100.0
1200	4.021	34.999	27.783	42.1	.836	1486.6	1200.0
1300	3.945	34.999	27.791	42.0	.878	1488.0	1300.0
1400	3.904	34.999	27.796	42.4	.920	1489.5	1400.0
1500	3.793	34.996	27.805	42.0	.962	1490.6	1500.0
1600	3.745	34.993	27.807	42.5	1.004	1492.1	1600.0
1700	3.701	34.989	27.808	43.0	1.047	1493.6	1700.0
1800	3.622	34.986	27.814	43.0	1.090	1494.9	1800.0
1900	3.530	34.983	27.821	42.8	1.133	1496.2	1900.0
1961	3.418	34.975	27.825	42.3	1.159	1496.7	1961.0

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
0	12.370	35.000	5.82	0.38		4.20		
66	13.340	35.260	5.28	0.37		3.64		
180	12.680	35.625	3.78	0.98		8.05		
391	7.020	35.080	4.09	1.47		14.20		
721	4.690	35.011	5.64	1.20		12.03		
904	4.320	34.995	5.95	1.18		11.82		
1079	4.100	34.996	6.06	1.16		12.16		
1444	3.840	34.993	6.10	1.16		12.73		
1706	3.690	34.989	6.23	1.18		13.68		
1801	3.590	34.989	6.15	1.16		14.33		
1810	3.560	34.977						
1884	3.450	34.975	6.13	1.12		15.28		

SIGMA-T

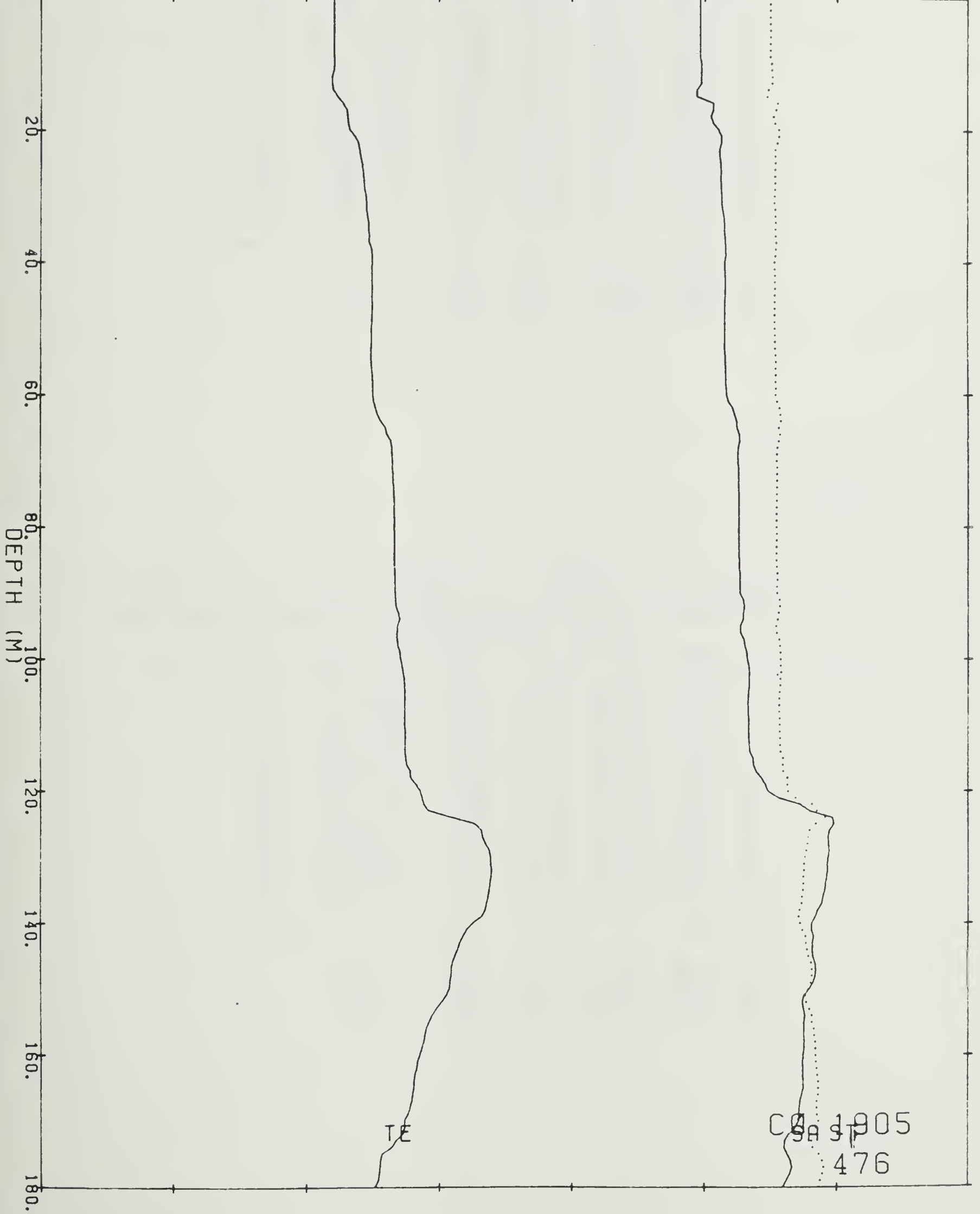
21. 22. 23. 24. 25. 26. 27. 28.

SALINITY (PPT)

30. 31. 32. 33. 34. 35. 36. 37.

TEMPERATURE (DEG C)

8. 10. 12. 14. 16. 18. 20. 22.



SHIP CO CRUISE 19-05 STATION 478 POSITION 39 9.71 N 73 15.89 W
 LOCAL TIME 1516 DATE 76/ 1/14 WIND = 22knots DIR = 310 DEPTH= 68M

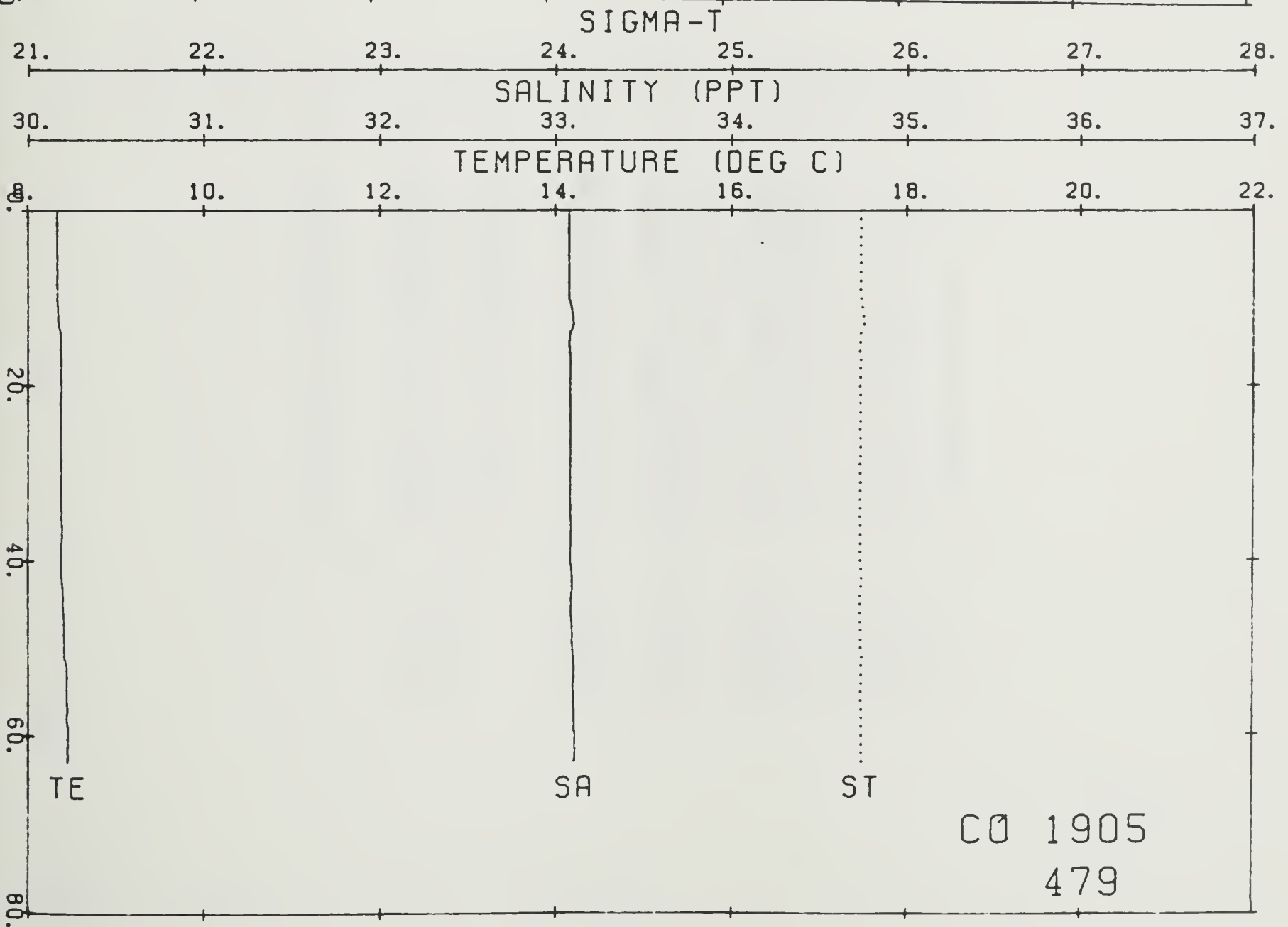
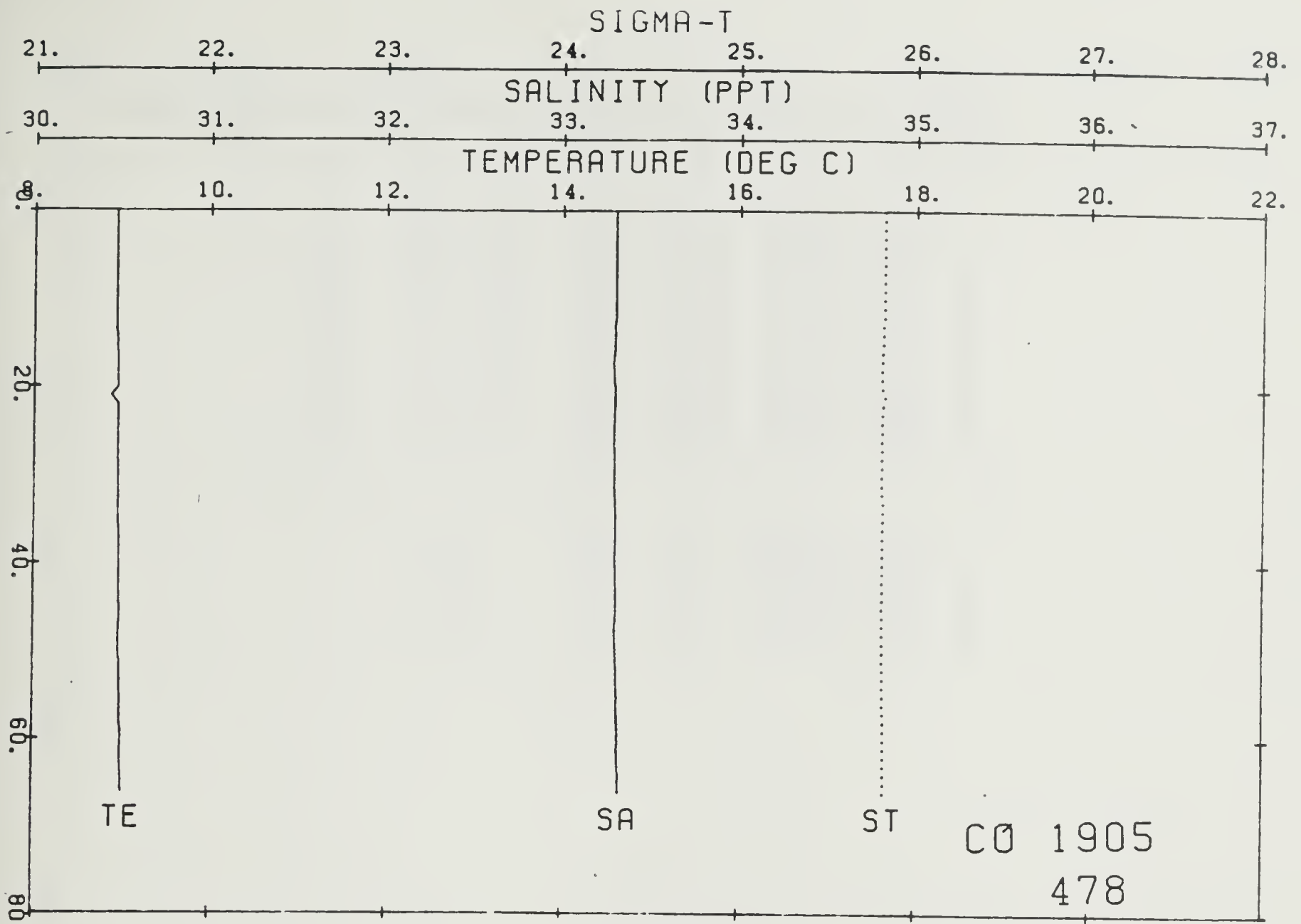
DTH	TEM	SAL	SGT	ANO	DYN	SVL	DTH
0	8.932	33.300	25.798	218.9	0.000	1484.3	0.0
5	8.932	33.300	25.798	219.0	.011	1484.3	5.0
10	8.932	33.300	25.798	219.1	.022	1484.4	10.0
15	8.947	33.294	25.791	219.8	.033	1484.5	15.0
20	8.962	33.298	25.792	219.8	.044	1484.7	20.0
25	8.953	33.293	25.789	220.1	.055	1484.7	25.0
30	8.959	33.295	25.790	220.2	.066	1484.8	30.0
35	8.962	33.302	25.795	219.8	.077	1484.9	35.0
40	8.967	33.301	25.793	220.0	.088	1485.0	40.0
45	8.979	33.305	25.795	220.0	.099	1485.2	45.0
50	8.964	33.305	25.797	219.9	.110	1485.2	50.0
55	8.989	33.314	25.800	219.6	.121	1485.4	55.0
60	9.001	33.320	25.803	219.5	.132	1485.5	60.0
65	9.010	33.326	25.806	219.3	.143	1485.6	65.0
66	9.013	33.326	25.806	219.3	.145	1485.7	66.0

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
5	8.980	33.276	6.52	0.56		5.90		
31	9.000	33.301	6.51	0.59		5.77		
41	9.010	33.308	6.45	0.60		6.26		

SHIP CO CRUISE 19-05 STATION 479 POSITION 39 14.40 N 73 19.98 W
 LOCAL TIME 1736 DATE 76/ 1/14 WIND = 20knots DIR = 220 DEPTH= 67M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	DTH
0	8.335	33.078	25.715	226.7	0.000	1481.7	0.0
5	8.335	33.078	25.715	226.8	.011	1481.8	5.0
10	8.335	33.078	25.715	226.9	.023	1481.9	10.0
15	8.373	33.078	25.710	227.5	.034	1482.1	15.0
20	8.379	33.082	25.712	227.4	.045	1482.2	20.0
25	8.375	33.084	25.714	227.2	.057	1482.3	25.0
30	8.380	33.083	25.713	227.5	.068	1482.4	30.0
35	8.385	33.085	25.713	227.5	.080	1482.5	35.0
40	8.375	33.085	25.715	227.4	.091	1482.5	40.0
45	8.396	33.088	25.714	227.6	.102	1482.7	45.0
50	8.416	33.098	25.719	227.2	.114	1482.9	50.0
55	8.440	33.102	25.718	227.3	.125	1483.0	55.0
60	8.455	33.109	25.722	227.1	.136	1483.2	60.0
63	8.448	33.107	25.721	227.2	.143	1483.2	63.0

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
1	8.390	33.074	6.72	0.60		5.36		
15	8.390	33.070	6.65	0.56		5.45		
30	8.430	33.083	6.65	0.58		5.32		
49	8.480	33.098	6.64	0.56		5.36		



SHIP CO CRUISE 19-05 STATION 480 POSITION 39 16.37 N 73 27.18 W
 LOCAL TIME 1912 DATE 76/ 1/15 WIND = 22knots DIR = 280 DEPTH= 53M

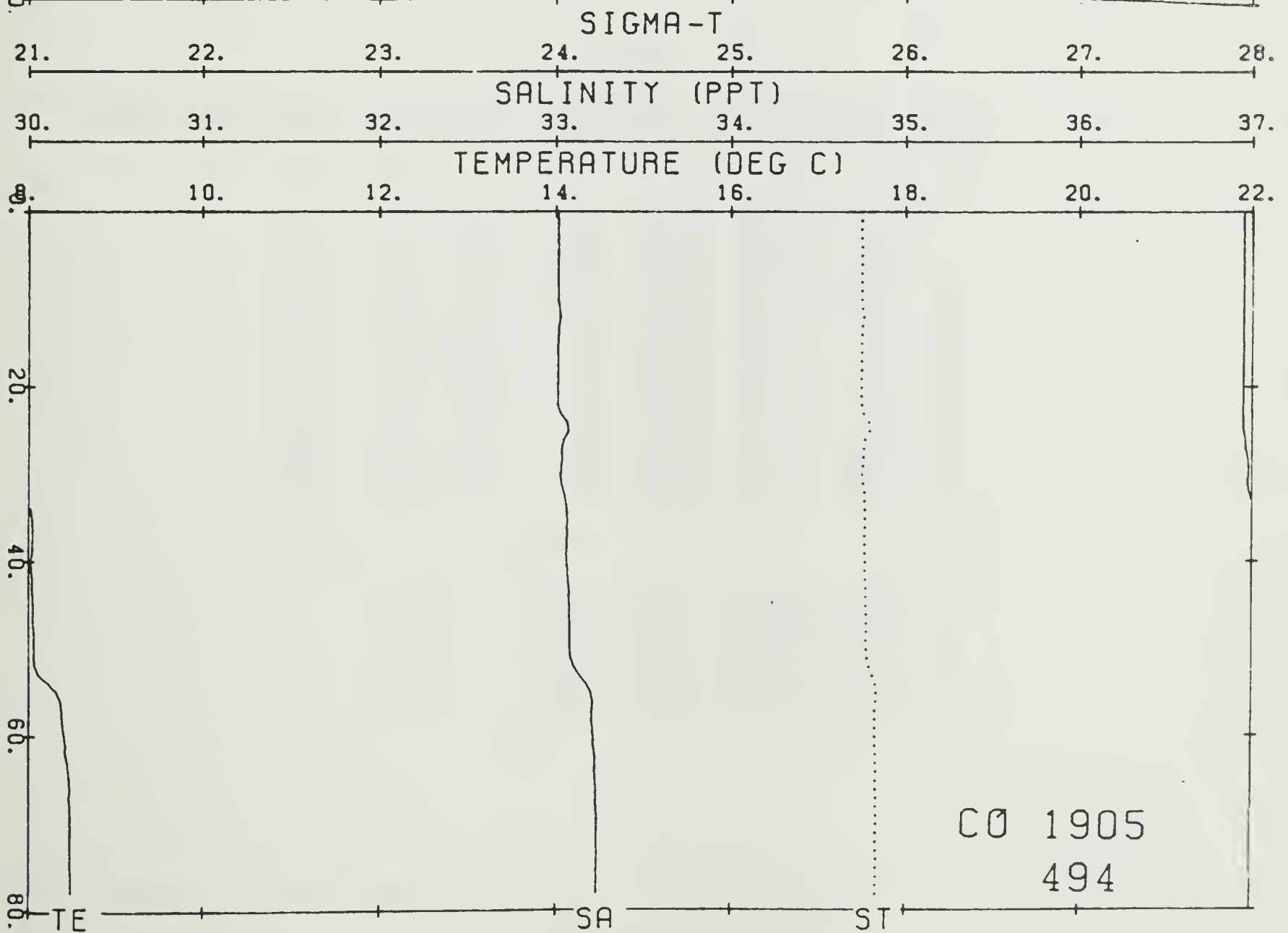
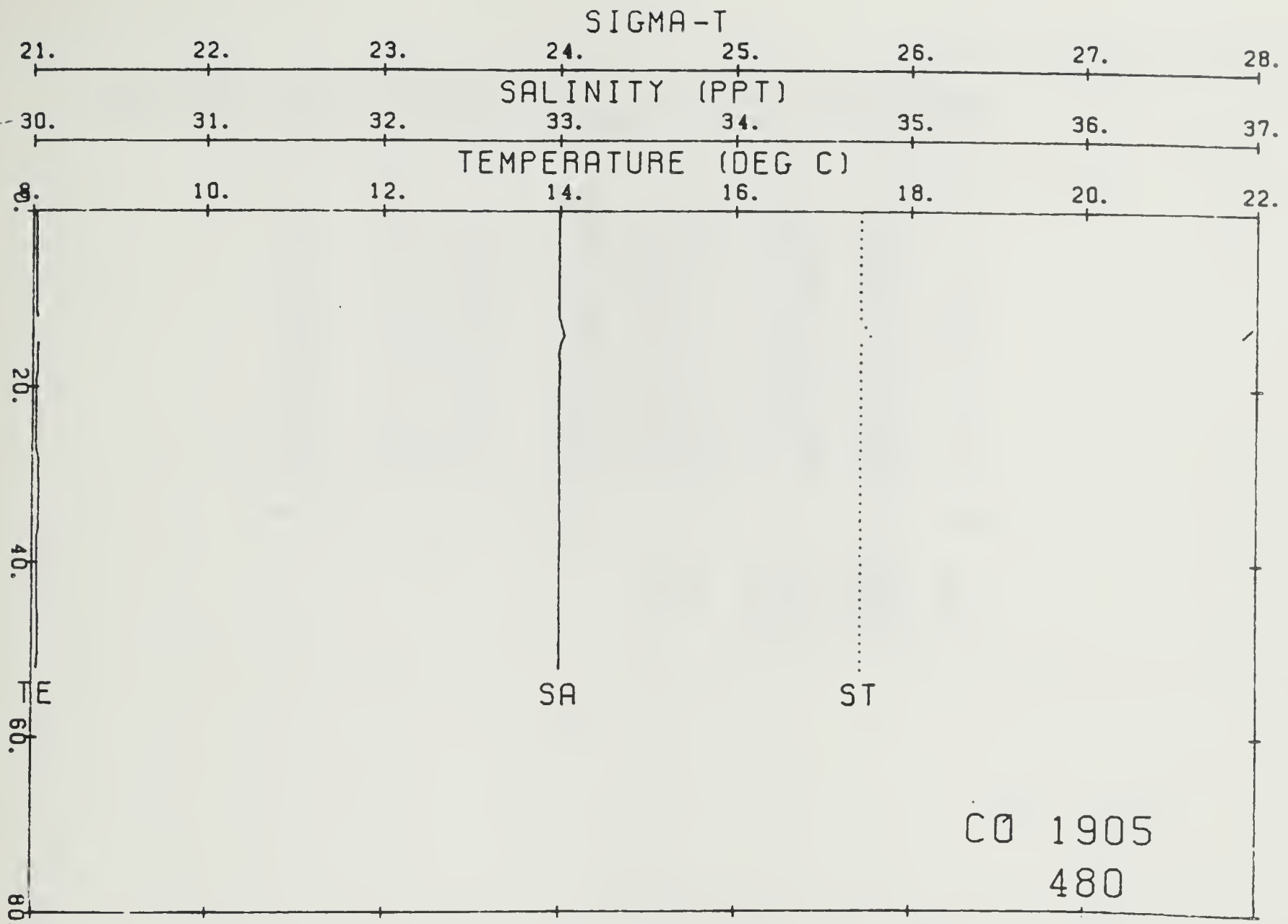
OTH	TEM	SAL	SGT	ANO	DYN	SVL	OTH
0	8.041	32.994	25.693	228.9	0.000	1480.5	0.0
5	8.041	32.994	25.693	228.9	.011	1480.6	5.0
10	8.041	32.994	25.693	229.0	.023	1480.6	10.0
15	8.053	33.002	25.697	228.7	.034	1480.8	15.0
20	8.032	32.995	25.695	229.0	.046	1480.8	20.0
25	8.035	32.997	25.696	228.9	.057	1480.9	25.0
30	8.063	33.000	25.694	229.2	.069	1481.1	30.0
35	8.066	33.002	25.695	229.2	.080	1481.1	35.0
40	8.049	33.000	25.697	229.1	.092	1481.2	40.0
45	8.049	33.000	25.696	229.2	.103	1481.2	45.0
50	8.063	33.002	25.696	229.3	.115	1481.4	50.0
52	8.052	33.002	25.698	229.2	.119	1481.4	52.0

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
1	8.070	32.988	6.61	0.52		5.59		
4	8.070	32.993	6.73	0.54		5.59		
14	8.050	32.998	6.77	0.52		5.36		
23	8.070	32.992	6.75	0.53		5.36		
32	8.070	32.994	6.73	0.52		5.36		
39	8.070	32.996	6.73	0.52		5.27		

SHIP CO CRUISE 19-05 STATION 494 POSITION 39 51.41 N 73 5.52 W
 LOCAL TIME 1056 DATE 76/ 1/16 WIND = 22knots DIR = 180 DEPTH= 80M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	DTH
0	7.901	33.013	25.728	225.5	0.000	1480.0	0.0
5	7.901	33.013	25.728	225.6	.011	1480.0	5.0
10	7.901	33.013	25.728	225.7	.023	1480.1	10.0
15	7.900	33.010	25.726	226.0	.034	1480.2	15.0
20	7.897	33.010	25.726	226.0	.045	1480.3	20.0
25	7.904	33.072	25.774	221.5	.056	1480.5	25.0
30	7.958	33.025	25.729	225.9	.068	1480.7	30.0
35	8.038	33.065	25.749	224.1	.079	1481.1	35.0
40	8.029	33.062	25.748	224.2	.090	1481.2	40.0
45	8.055	33.077	25.756	223.6	.101	1481.4	45.0
50	8.063	33.081	25.758	223.5	.112	1481.5	50.0
55	8.326	33.203	25.815	218.2	.123	1482.7	55.0
60	8.417	33.215	25.811	218.7	.134	1483.2	60.0
65	8.476	33.227	25.811	218.7	.145	1483.5	65.0
70	8.487	33.234	25.815	218.4	.156	1483.6	70.0
75	8.487	33.233	25.814	218.6	.167	1483.7	75.0
78	8.488	33.233	25.814	218.7	.174	1483.8	78.0

OTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
0	7.940	32.987	6.72	0.58		5.48		
26	8.050	33.037	6.73	0.59		5.51		
41	8.230	33.103	6.62	0.60		5.62		
49	8.450	33.193	6.71	0.61		5.75		
63	8.530	33.212	6.53	0.60		5.84		



SHIP CO CRUISE 19-05 STATION 495 POSITION 40 1.20 N 72 59.27 W
 LOCAL TIME 1340 DATE 76/ 1/16 WIND = 9knots DIR = 260 DEPTH= 70M

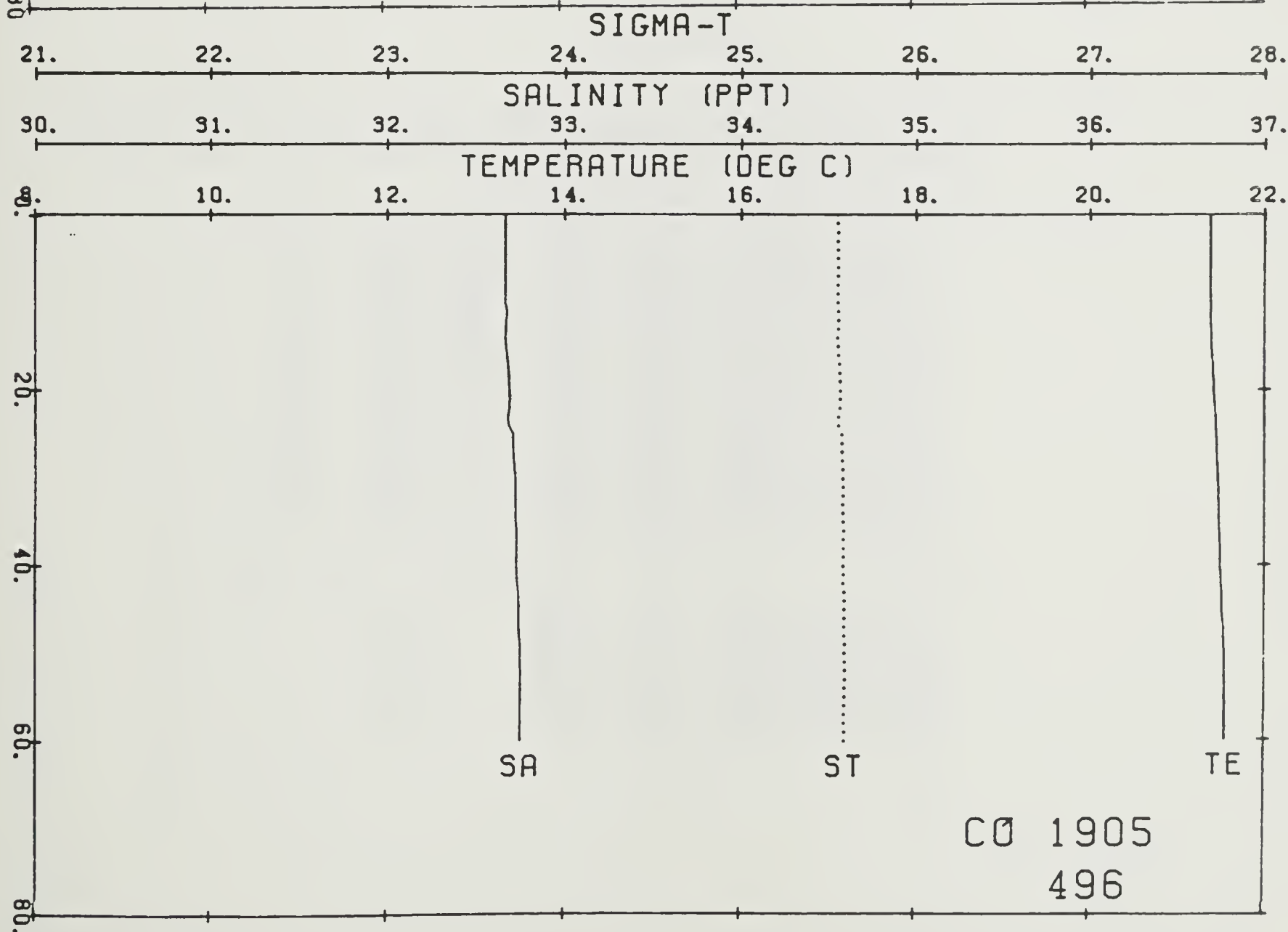
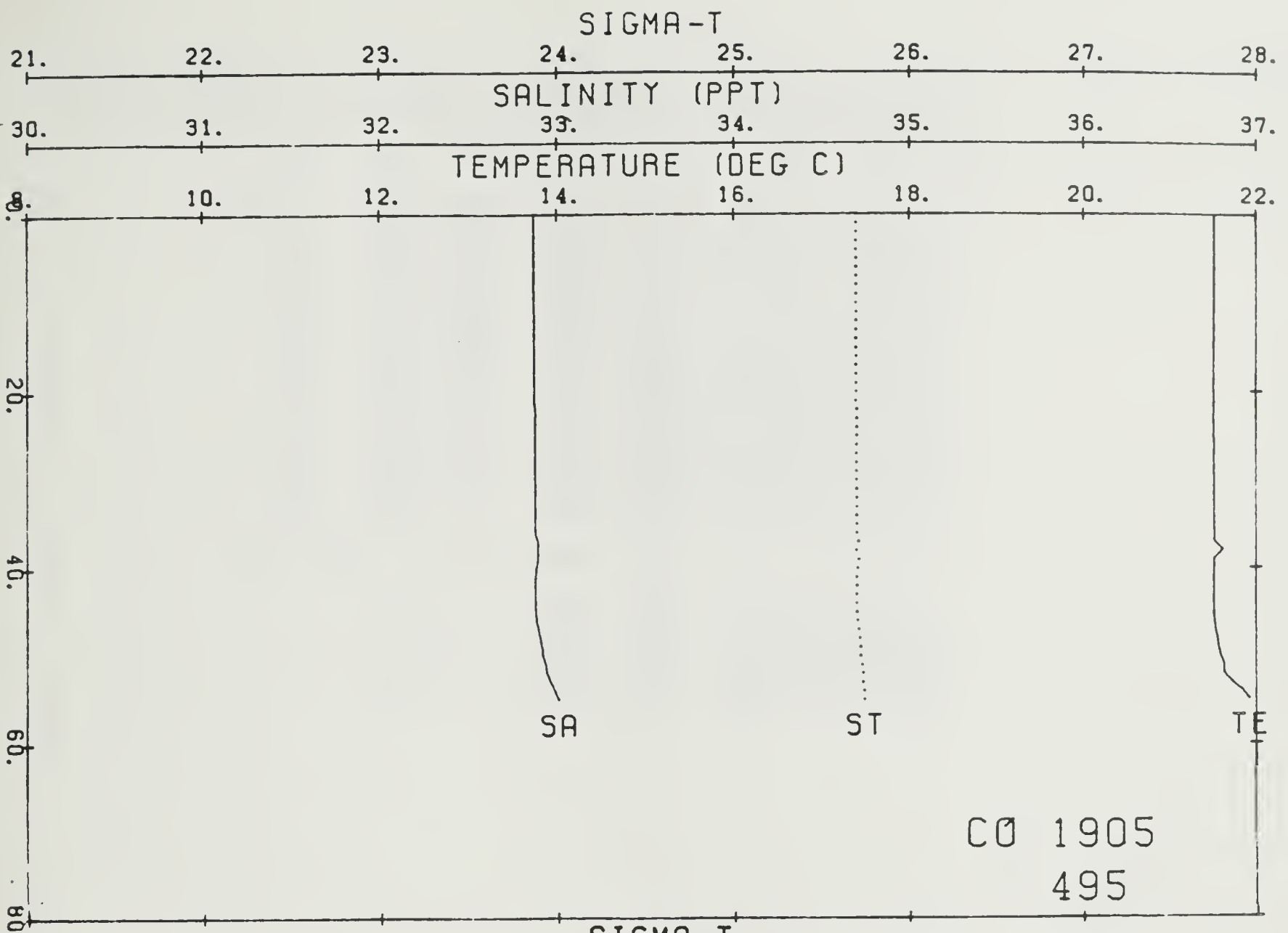
DTH	TEM	SAL	SGT	ANO	DYN	SVL	DTH
0	7.516	32.873	25.673	230.8	0.000	1478.3	0.0
5	7.516	32.873	25.673	230.8	.012	1478.4	5.0
10	7.516	32.873	25.673	230.9	.023	1478.4	10.0
15	7.509	32.872	25.673	231.0	.035	1478.5	15.0
20	7.511	32.875	25.675	230.8	.046	1478.6	20.0
25	7.515	32.877	25.676	230.8	.058	1478.7	25.0
30	7.518	32.881	25.679	230.6	.069	1478.8	30.0
35	7.519	32.881	25.679	230.7	.081	1478.9	35.0
40	7.512	32.883	25.681	230.5	.092	1478.9	40.0
45	7.515	32.882	25.680	230.7	.104	1479.0	45.0
50	7.594	32.922	25.700	228.9	.115	1479.5	50.0
55	7.923	33.010	25.723	226.9	.127	1480.9	55.0
55	7.923	33.010	25.723	226.9	.127	1480.9	55.0

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
4	7.530	32.856	6.81	0.57		5.16		
39	7.660	32.884	6.70					
42	7.910	32.980	6.72					
40	7.780	32.930						

SHIP CO CRUISE 19-05 STATION 496 POSITION 40 8.70 N 72 46.07 W
 LOCAL TIME 1696 DATE 76/ 1/16 WIND = 4knots DIR = 340 DEPTH= 61M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	DTH
0	7.380	32.666	25.529	244.4	0.000	1477.5	0.0
5	7.380	32.666	25.529	244.5	.012	1477.6	5.0
10	7.387	32.665	25.527	244.7	.024	1477.7	10.0
15	7.394	32.669	25.529	244.6	.037	1477.8	15.0
20	7.420	32.692	25.544	243.3	.049	1478.0	20.0
25	7.454	32.709	25.553	242.5	.061	1478.2	25.0
30	7.477	32.725	25.562	241.7	.073	1478.4	30.0
35	7.487	32.727	25.562	241.8	.085	1478.5	35.0
40	7.499	32.730	25.563	241.8	.097	1478.7	40.0
45	7.521	32.743	25.570	241.2	.109	1478.9	45.0
50	7.549	32.751	25.572	241.0	.121	1479.1	50.0
55	7.552	32.752	25.573	241.1	.133	1479.2	55.0
60	7.553	32.749	25.570	241.4	.146	1479.2	60.0
60	7.553	32.749	25.570	241.4	.146	1479.2	60.0

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
1	7.400	32.640	6.66	0.60		5.56		
11	7.460	32.677	6.60	0.60		5.65		
21	7.510	32.706	6.40	0.62		5.61		
33	7.540	32.723	6.62	0.62		5.61		
41	7.570	32.731	6.62	0.60		5.65		
49	7.600	32.732	6.47	0.62		5.69		



SHIP CD CRUISE 19-05 STATION 497 POSITION 40 2.82 N 72 28.80 W
 LOCAL TIME 1923 DATE 76/ 1/17 WIND = 6knots DIR = 350 DEPTH= 72M

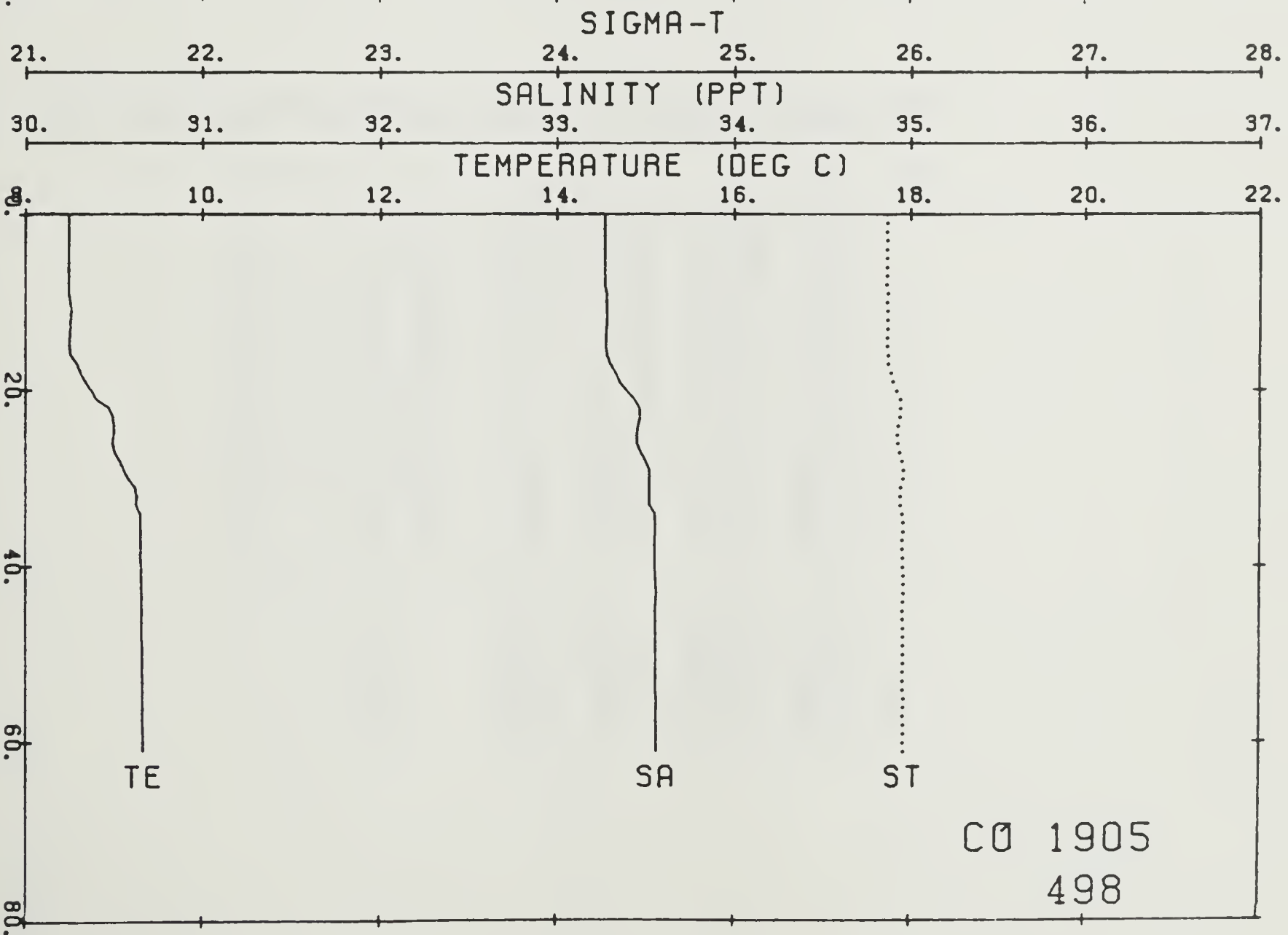
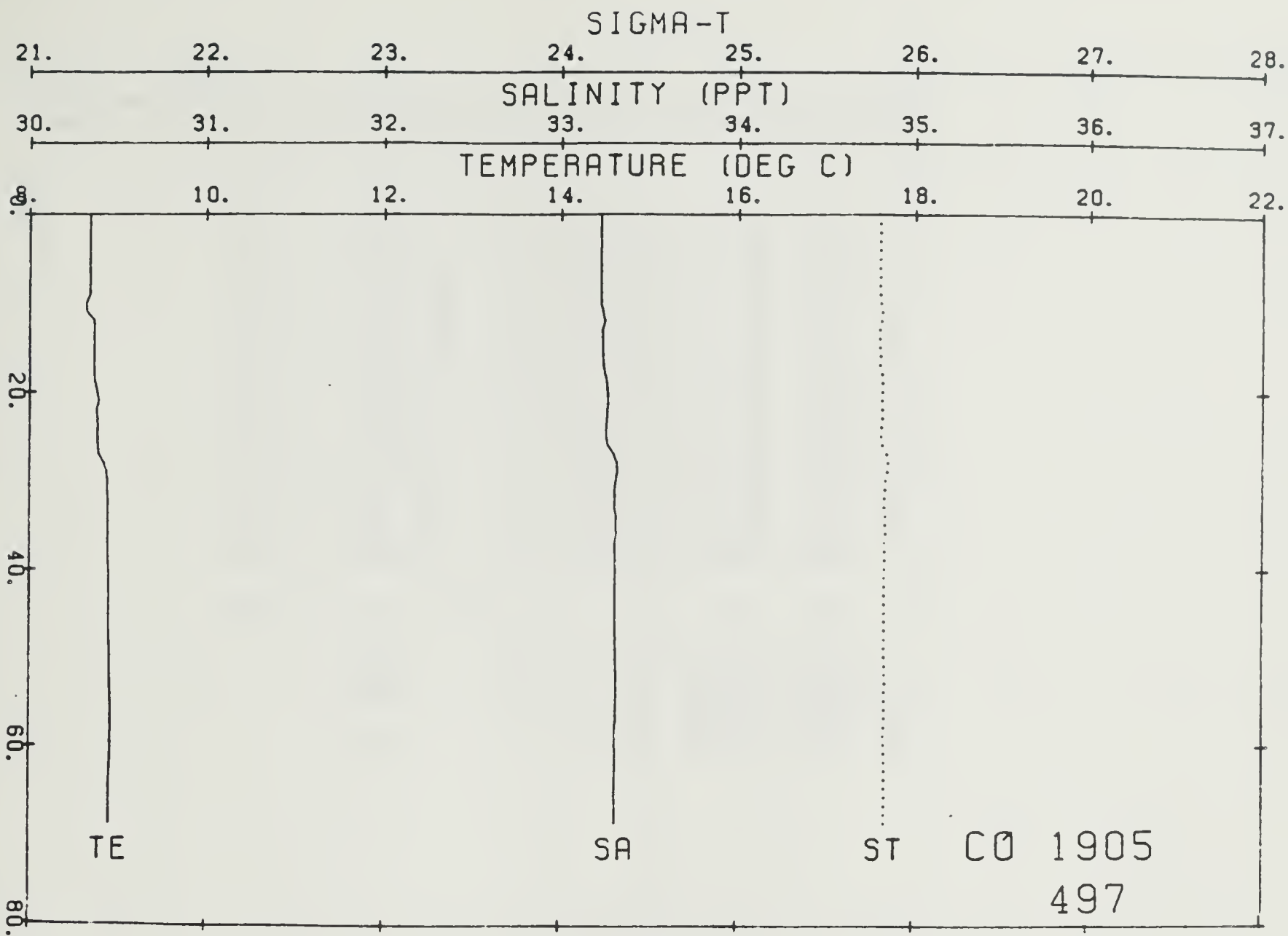
DTH	TEM	SAL	SGT	ANO	DYN	SVL	DTH
0	8.683	33.226	25.779	220.7	0.000	1483.2	0.0
5	8.683	33.226	25.779	220.8	.011	1483.3	5.0
10	8.639	33.226	25.785	220.2	.022	1483.2	10.0
15	8.733	33.235	25.778	221.0	.033	1483.7	15.0
20	8.767	33.266	25.797	219.3	.044	1483.9	20.0
25	8.765	33.254	25.788	220.3	.055	1484.0	25.0
30	8.882	33.311	25.814	217.8	.066	1484.6	30.0
35	8.890	33.313	25.815	217.9	.077	1484.7	35.0
40	8.901	33.309	25.810	218.4	.088	1484.8	40.0
45	8.901	33.308	25.809	218.6	.099	1484.9	45.0
50	8.908	33.313	25.812	218.4	.110	1485.0	50.0
55	8.922	33.317	25.813	218.4	.121	1485.1	55.0
60	8.915	33.309	25.808	219.0	.132	1485.2	60.0
65	8.905	33.311	25.811	218.8	.143	1485.2	65.0
70	8.905	33.312	25.812	218.8	.151	1485.3	69.0

DTH	TEM	SAL	DXG	PHOS	NITR	SIL	NO2	AMM
1	8.750	33.220	6.56	0.55		5.07		
12	8.770	33.231	6.51	0.54		5.02		
25	8.900	33.291	6.49	0.54		5.11		
38	8.920	33.292	6.52	0.55		5.16		
56	8.950	33.290	6.42	0.54		5.16		

SHIP CD CRUISE 19-05 STATION 498 POSITION 39 52.32 N 72 41.52 W
 LOCAL TIME 2233 DATE 76/ 1/17 WIND = 10knots DIR = 310 DEPTH= 62M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	DTH
0	8.488	33.271	25.844	214.5	0.000	1482.5	0.0
5	8.488	33.271	25.844	214.6	.011	1482.6	5.0
10	8.508	33.279	25.847	214.4	.021	1482.8	10.0
15	8.496	33.274	25.845	214.7	.032	1482.8	15.0
20	8.745	33.393	25.900	209.5	.043	1484.0	20.0
25	8.994	33.447	25.903	209.3	.053	1485.1	25.0
30	9.165	33.520	25.933	206.6	.064	1485.9	30.0
35	9.303	33.554	25.938	206.2	.074	1486.5	35.0
40	9.307	33.550	25.934	206.7	.084	1486.6	40.0
45	9.316	33.553	25.935	206.7	.095	1486.7	45.0
50	9.319	33.556	25.937	206.6	.105	1486.8	50.0
55	9.323	33.559	25.939	206.5	.115	1486.9	55.0
60	9.328	33.559	25.938	206.7	.126	1487.0	60.0
61	9.327	33.559	25.938	206.7	.128	1487.1	61.0

DTH	TEM	SAL	DXG	PHOS	NITR	SIL	NO2	AMM
4	8.530	33.276	6.58	0.54		4.84		
9	8.700	33.316	6.53	0.55		4.66		
20	9.250	33.541	6.49	0.53		5.02		
32	9.330	33.535	6.36	0.54		5.11		
43	9.340	33.542	6.32	0.54		5.29		
50	9.370	33.548	6.38	0.55		5.15		



SHIP CO CRUISE 19-05 STATION 499 POSITION 39 42.42 N 72 52.98 W
 LOCAL TIME 42 DATE 76/ 1/17 WIND = 8knots DIR = 300 DEPTH= 78M

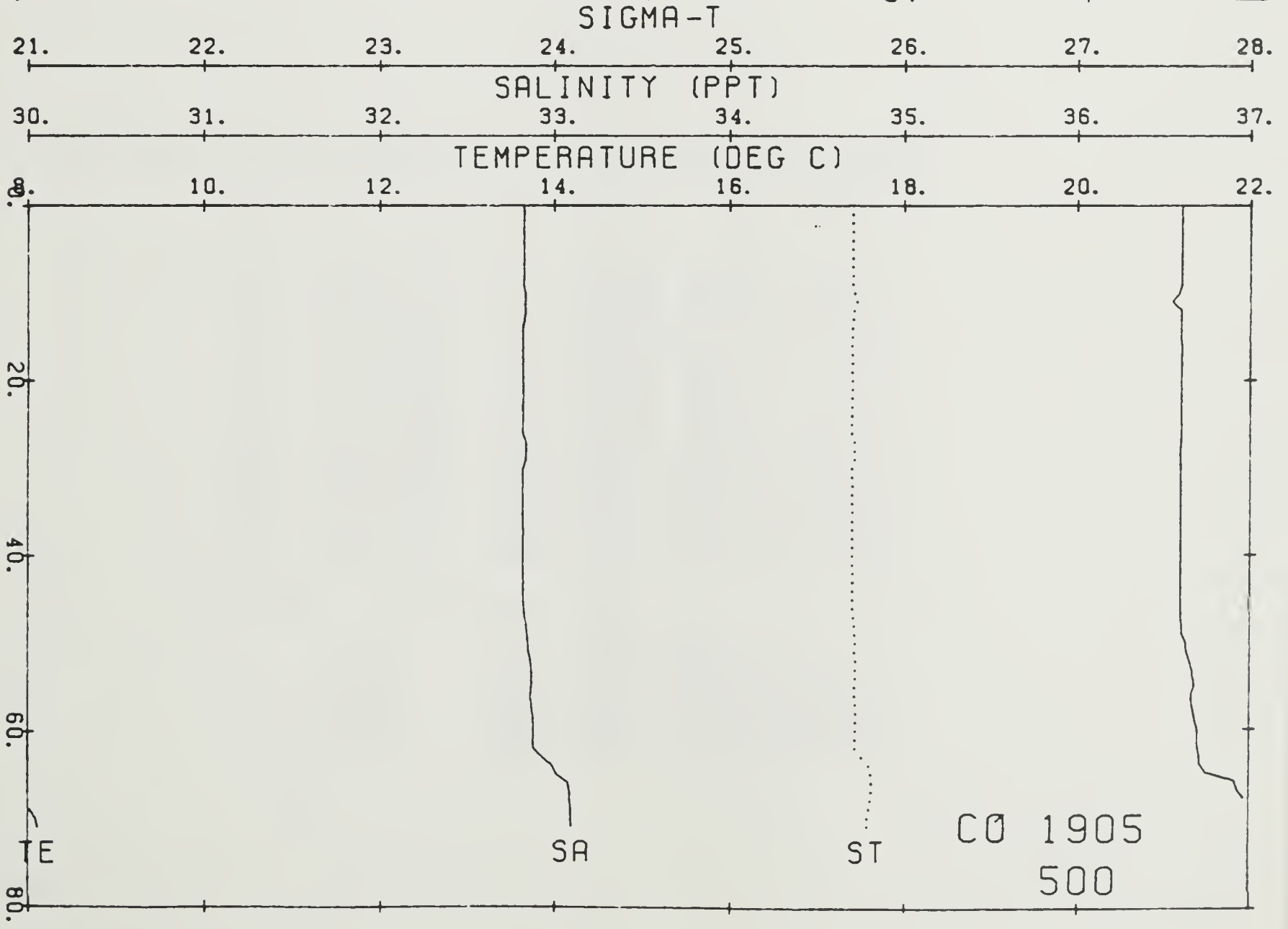
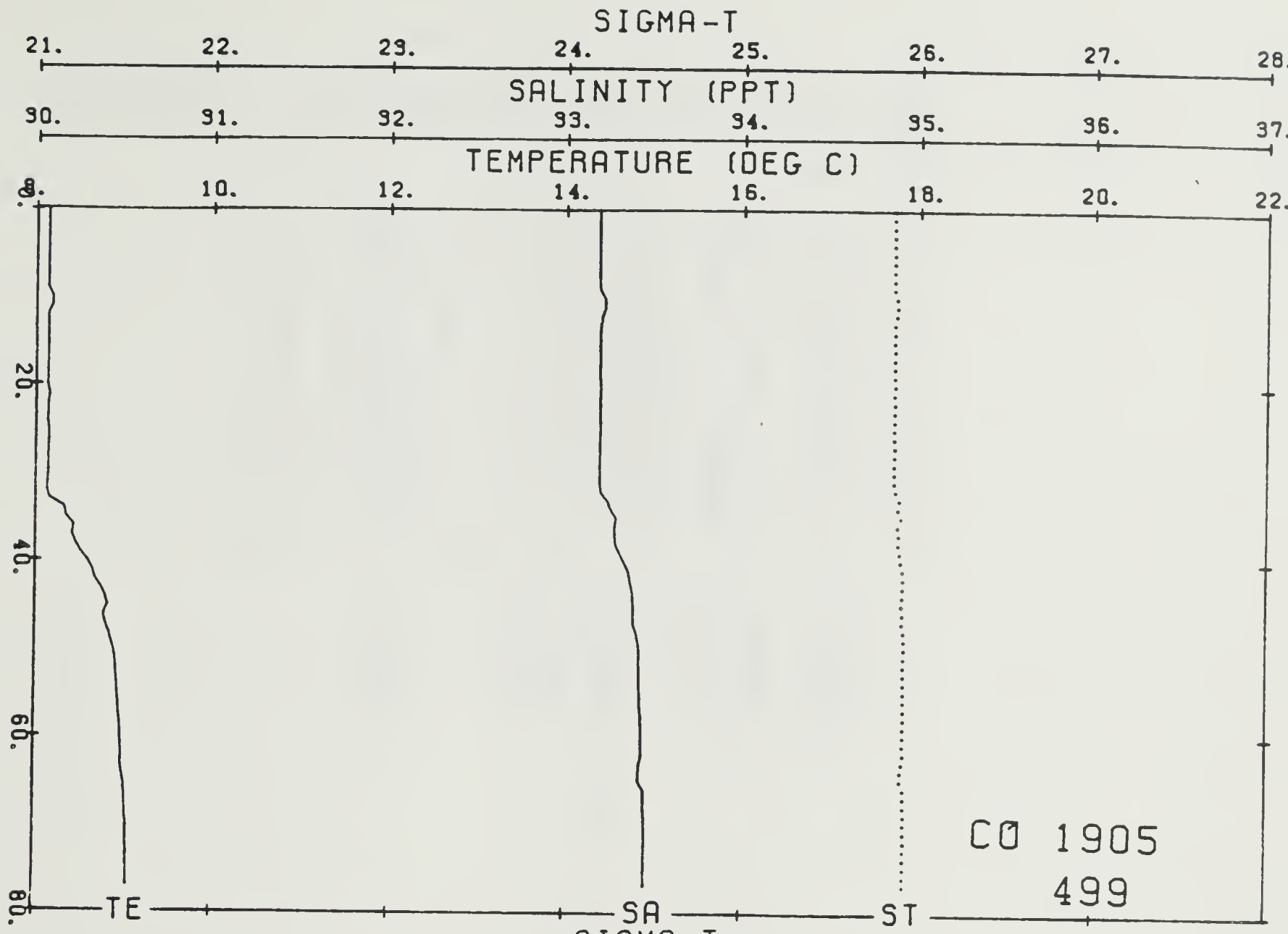
DTH	TEM	SAL	SGT	ANO	DYN	SVL	DTH
0	8.129	33.185	25.830	215.8	0.000	1481.1	0.0
5	8.129	33.185	25.830	215.9	.011	1481.1	5.0
10	8.181	33.217	25.847	214.3	.022	1481.5	10.0
15	8.132	33.190	25.833	215.8	.032	1481.3	15.0
20	8.125	33.194	25.837	215.4	.043	1481.4	20.0
25	8.142	33.194	25.835	215.8	.054	1481.5	25.0
30	8.132	33.192	25.835	215.8	.065	1481.6	30.0
35	8.351	33.287	25.877	212.0	.075	1482.6	35.0
40	8.595	33.334	25.877	212.1	.086	1483.7	40.0
45	8.826	33.389	25.884	211.5	.097	1484.7	45.0
50	8.893	33.424	25.901	210.0	.107	1485.1	50.0
55	8.946	33.430	25.898	210.4	.118	1485.4	55.0
60	8.980	33.439	25.899	210.3	.128	1485.6	60.0
65	9.018	33.424	25.882	212.1	.139	1485.8	65.0
70	9.054	33.461	25.905	210.0	.149	1486.1	70.0
75	9.059	33.460	25.903	210.2	.160	1486.2	75.0
77	9.057	33.460	25.904	210.2	.164	1486.2	77.0

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
0	8.140	33.172	6.47	0.48		6.01		
9	8.150	33.176	6.64	0.53		5.38		
33	8.760	33.340	6.25	0.53		5.38		
63	9.080	33.445						
66	9.110	33.449	5.49	0.51		5.07		

SHIP CO CRUISE 19-05 STATION 500 POSITION 39 32.57 N 73 4.19 W
 LOCAL TIME 420 DATE 76/ 1/17 WIND = 10knots DIR = 320 DEPTH= 72M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	DTH
0	7.209	32.827	25.679	230.2	0.000	1477.0	0.0
5	7.209	32.827	25.679	230.2	.012	1477.1	5.0
10	7.180	32.836	25.690	229.3	.023	1477.1	10.0
15	7.202	32.820	25.675	230.8	.034	1477.2	15.0
20	7.202	32.822	25.676	230.7	.046	1477.3	20.0
25	7.208	32.820	25.674	231.0	.058	1477.4	25.0
30	7.200	32.820	25.675	231.0	.069	1477.5	30.0
35	7.198	32.821	25.676	231.0	.081	1477.5	35.0
40	7.200	32.820	25.675	231.1	.092	1477.6	40.0
45	7.198	32.823	25.678	230.9	.104	1477.7	45.0
50	7.259	32.851	25.691	229.7	.115	1478.1	50.0
55	7.363	32.867	25.690	230.0	.127	1478.6	55.0
60	7.399	32.883	25.697	229.3	.138	1478.8	60.0
65	7.499	33.016	25.788	220.8	.150	1479.5	65.0
70	8.092	33.098	25.767	222.9	.161	1481.9	70.0
71	8.109	33.099	25.765	223.1	.163	1482.0	71.0

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
2	7.210	32.807	6.83	0.46		4.80		
7	7.230	32.807	6.87	0.48		4.71		
13	7.230	32.820	6.87	0.46		4.62		
28	7.200	32.804	6.88	0.48		4.62		
43	7.360	33.014	6.44	0.54		5.25		
59	8.230	33.109	6.47	0.55		5.43		



SHIP CO CRUISE 19-05 STATION 501 POSITION 39 24.48 N 73 10.62 W
 LOCAL TIME 558 DATE 76/ 1/17 WIND = knots DIR = DEPTH= 67M

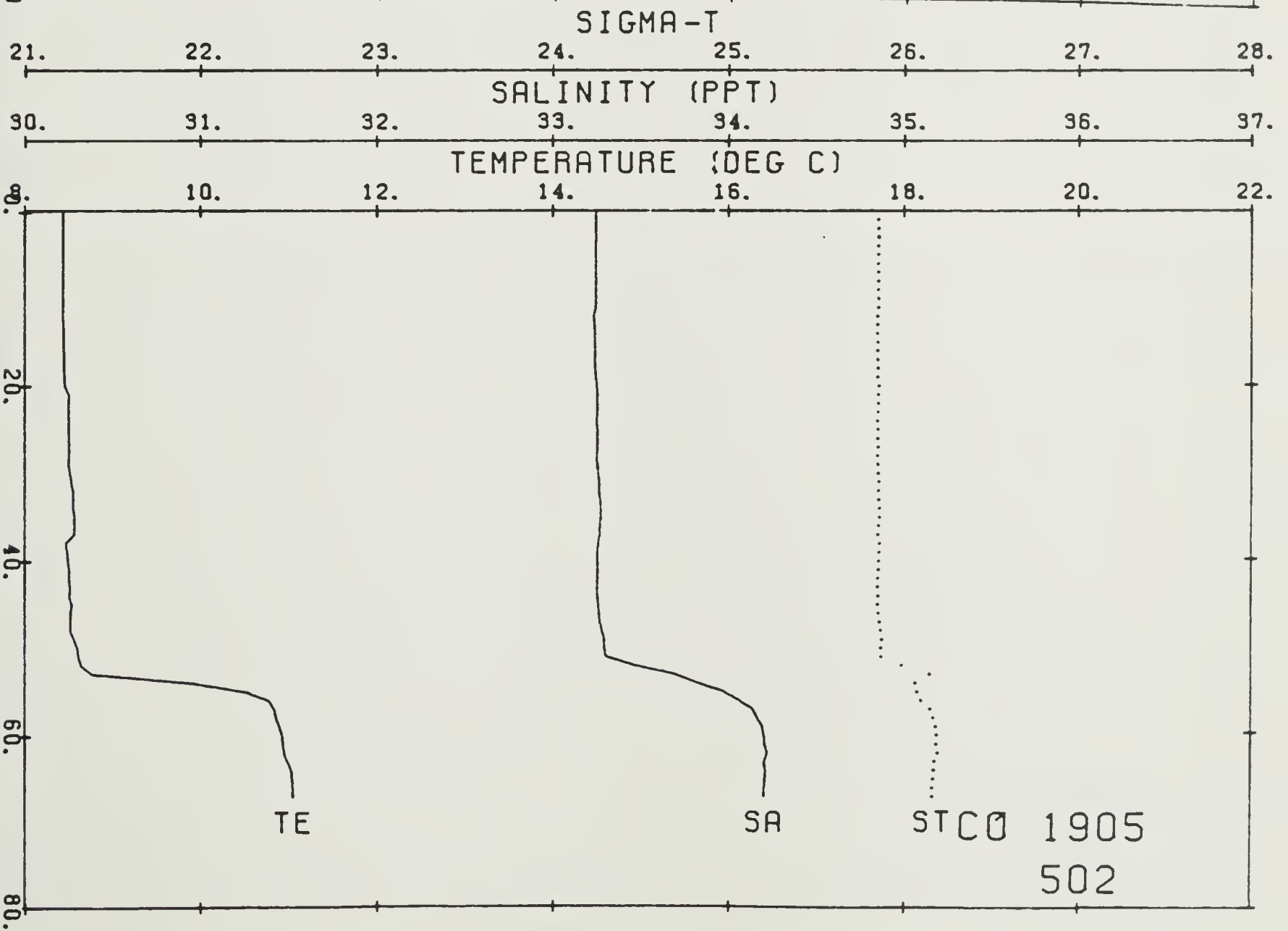
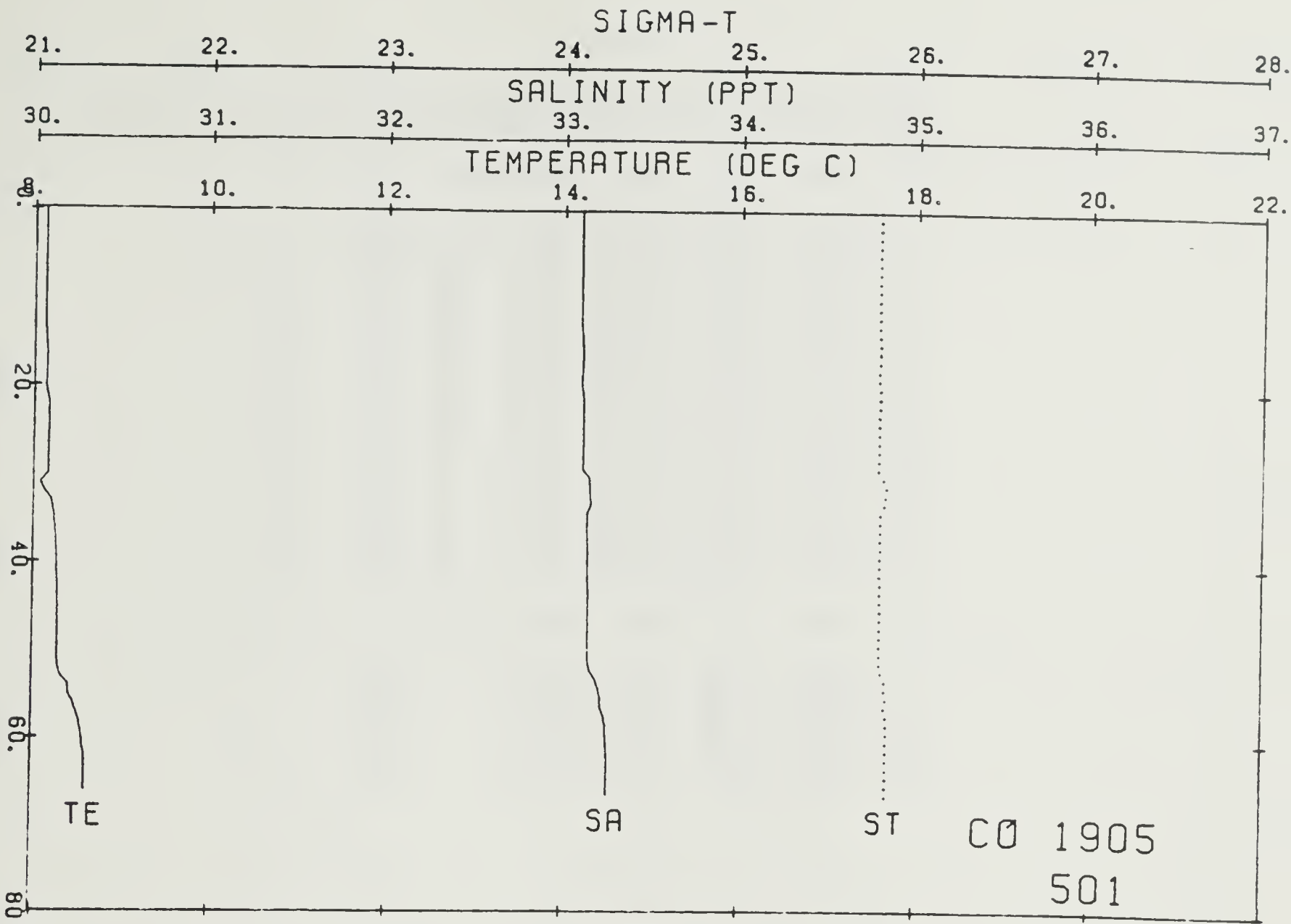
DTH	TEM	SAL	SGT	ANO	DYN	SVL	DTH
0	8.119	33.098	25.763	222.2	0.000	1480.9	0.0
5	8.119	33.098	25.763	222.3	.011	1481.0	5.0
10	8.119	33.098	25.763	222.4	.022	1481.1	10.0
15	8.137	33.107	25.768	222.0	.033	1481.2	15.0
20	8.129	33.108	25.769	221.9	.044	1481.3	20.0
25	8.168	33.113	25.768	222.2	.056	1481.5	25.0
30	8.163	33.149	25.797	219.5	.067	1481.6	30.0
35	8.247	33.140	25.777	221.4	.078	1482.0	35.0
40	8.272	33.145	25.777	221.5	.089	1482.2	40.0
45	8.288	33.151	25.780	221.4	.100	1482.4	45.0
50	8.290	33.149	25.778	221.6	.111	1482.4	50.0
55	8.420	33.226	25.819	217.8	.122	1483.1	55.0
60	8.577	33.259	25.821	217.7	.133	1483.8	60.0
65	8.613	33.266	25.821	217.8	.144	1484.1	65.0
66	8.615	33.266	25.820	217.9	.146	1484.1	66.0

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
0	8.120	33.083	6.64	0.53		4.62		
4	8.150	33.090	6.60	0.52		4.35		
19	8.180	33.109	6.65	0.52		4.35		
30	8.290	33.129	6.61	0.53		4.39		
39	8.400	33.146	6.56	0.54		4.39		
53	8.680	33.265	6.50	0.55		4.62		

SHIP CO CRUISE 19-05 STATION 502 POSITION 39 30.89 N 72 54.00 W
 LOCAL TIME 911 DATE 76/ 1/17 WIND = 4knots DIR = 320 DEPTH= 68M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	DTH
0	8.434	33.245	25.831	215.7	0.000	1482.3	0.0
5	8.434	33.245	25.831	215.8	.011	1482.4	5.0
10	8.434	33.245	25.831	215.9	.022	1482.5	10.0
15	8.440	33.240	25.827	216.4	.032	1482.6	15.0
20	8.454	33.252	25.834	215.8	.043	1482.7	20.0
25	8.498	33.254	25.829	216.4	.054	1483.0	25.0
30	8.515	33.260	25.831	216.3	.065	1483.1	30.0
35	8.564	33.276	25.836	215.9	.076	1483.4	35.0
40	8.490	33.255	25.831	216.4	.086	1483.2	40.0
45	8.535	33.260	25.828	216.8	.097	1483.4	45.0
50	8.601	33.296	25.846	215.2	.108	1483.8	50.0
55	10.522	33.970	26.058	195.3	.118	1491.9	55.0
60	10.929	34.206	26.170	184.8	.128	1493.7	60.0
65	11.045	34.207	26.150	186.9	.137	1494.2	65.0
67	11.051	34.202	26.145	187.4	.141	1494.2	67.0

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
4	8.440	33.259	6.52	0.49		4.80		
8	8.480	33.249	6.49	0.53		4.84		
25	8.480	33.234	6.61	0.52		4.89		
37	8.640	33.281	6.64	0.54		5.08		
46	10.950	34.132	5.85	0.50		5.52		
54	11.100	34.208	5.79	0.55		5.40		



SHIP CO CRUISE 19-05 STATION 503 POSITION 39 43.07 N 72 33.78 W
LOCAL TIME 1206 DATE 76/ 1/17 WIND = 18knots DIR = 350 DEPTH= 85M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	DTH
0	10.054	33.916	26.097	190.5	0.000	1489.2	0.0
5	10.054	33.916	26.097	190.6	.010	1489.3	5.0
10	10.054	33.916	26.097	190.7	.019	1489.4	10.0
15	10.067	33.899	26.081	192.3	.029	1489.5	15.0
20	10.063	33.874	26.062	194.2	.038	1489.5	20.0
25	10.061	33.873	26.062	194.3	.048	1489.6	25.0
30	10.108	33.894	26.070	193.6	.058	1489.9	30.0
35	10.135	33.915	26.082	192.6	.067	1490.1	35.0
40	10.139	33.921	26.086	192.3	.077	1490.2	40.0
45	10.163	33.939	26.096	191.5	.087	1490.4	45.0
50	10.422	34.019	26.114	189.9	.096	1491.5	50.0
55	10.458	34.017	26.106	190.8	.106	1491.7	55.0
60	10.675	34.118	26.147	187.0	.115	1492.7	60.0
65	11.229	34.299	26.189	183.3	.124	1495.0	65.0
70	11.678	34.656	26.383	165.0	.133	1497.1	70.0
75	12.276	34.674	26.283	174.6	.142	1499.2	75.0
80	12.481	34.948	26.456	158.4	.150	1500.4	80.0
83	12.570	35.053	26.520	152.4	.155	1500.8	83.0

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
0	9.970	33.886	6.05	0.45		5.59		
9	10.090	33.878	5.82	0.45		5.36		
22	10.090	33.874	6.19	0.47		5.31		
39	10.520	34.005	5.97	0.45		5.18		
54	11.580	34.353	5.48	0.46		4.99		
68	12.560	34.961	4.64	0.60		6.23		

SIGMA-T

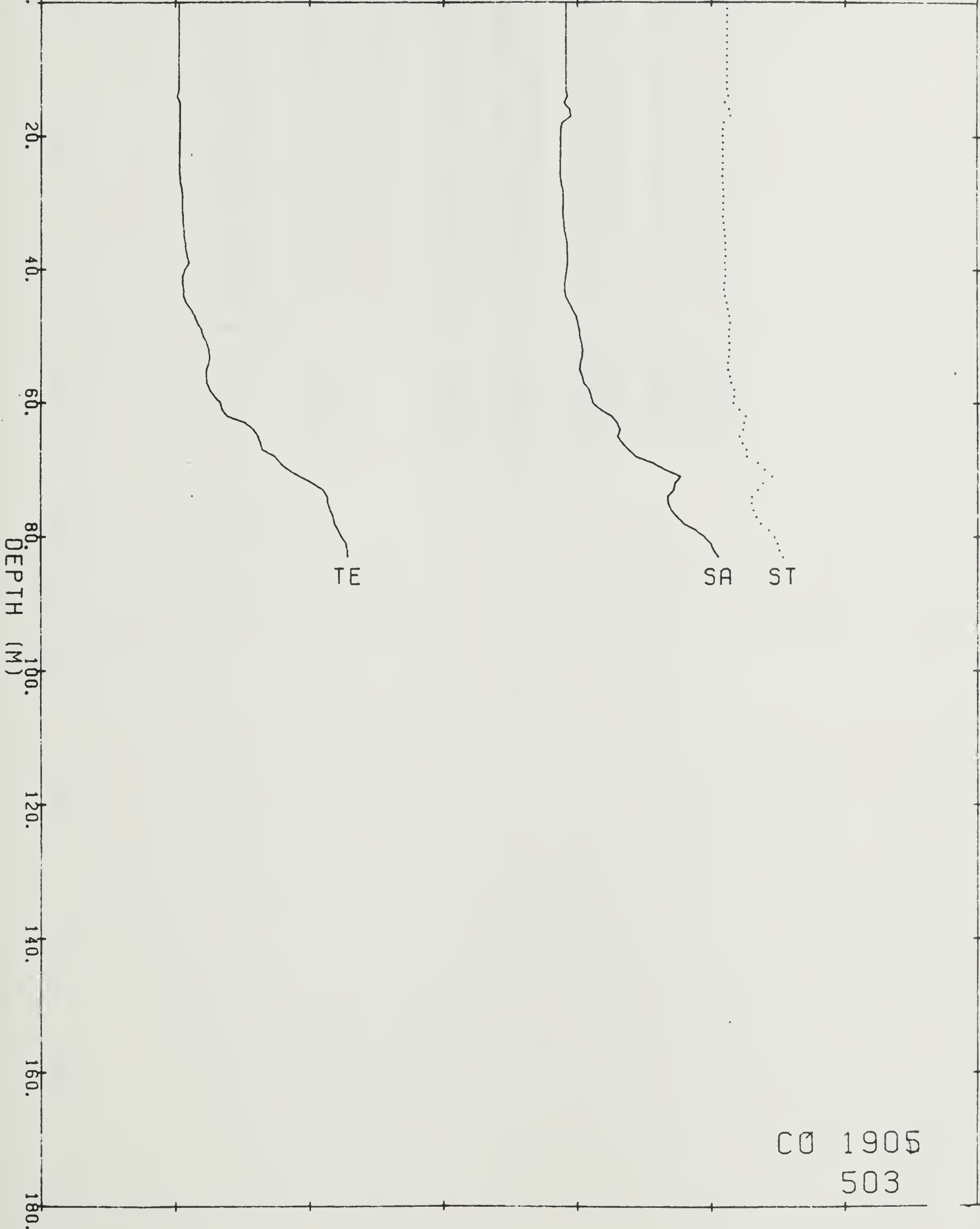
21. 22. 23. 24. 25. 26. 27. 28.

SALINITY (PPT)

30. 31. 32. 33. 34. 35. 36. 37.

TEMPERATURE (DEG C)

8. 10. 12. 14. 16. 18. 20. 22.



C0 1905
503

SHIP CO CRUISE 19-05 STATION 504 POSITION 39 51.77 N 72 19.62 W
 LOCAL TIME 1559 DATE 76/ 1/17 WIND = 30knots DIR = 100 DEPTH= 91M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	DTH
0	10.067	33.874	26.062	193.8	0.000	1489.2	0.0
5	10.067	33.874	26.062	193.9	.010	1489.3	5.0
10	10.067	33.874	26.062	194.0	.019	1489.4	10.0
15	10.067	33.874	26.062	194.1	.029	1489.4	15.0
20	10.115	33.852	26.036	196.6	.039	1489.7	20.0
25	10.120	33.854	26.037	196.7	.049	1489.8	25.0
30	10.118	33.890	26.066	194.1	.058	1489.9	30.0
35	10.136	33.860	26.039	196.7	.068	1490.0	35.0
40	10.128	33.855	26.037	197.0	.078	1490.0	40.0
45	10.215	33.896	26.054	195.5	.088	1490.5	45.0
50	10.226	33.869	26.031	197.8	.098	1490.6	50.0
55	10.203	33.883	26.046	196.5	.108	1490.6	55.0
60	10.160	33.868	26.041	197.0	.117	1490.5	60.0
65	10.212	33.885	26.046	196.7	.127	1490.8	65.0
70	10.289	33.919	26.059	195.5	.137	1491.2	70.0
75	10.434	33.962	26.067	194.9	.147	1491.9	75.0
80	11.274	34.692	26.486	155.4	.156	1495.9	80.0
85	12.596	35.083	26.538	150.8	.163	1501.0	85.0
90	12.613	35.085	26.537	151.0	.169	1501.1	89.0

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
1	10.120	33.808						
13	10.140	33.855	6.09	0.46		4.85		
25	10.160	33.851	6.24	0.45		4.66		
41	10.210	33.859	6.26	0.45		4.57		
57	10.400	33.918	6.17	0.46		4.43		
67	12.610	35.040	4.85	0.65		6.97		

SIGMA-T

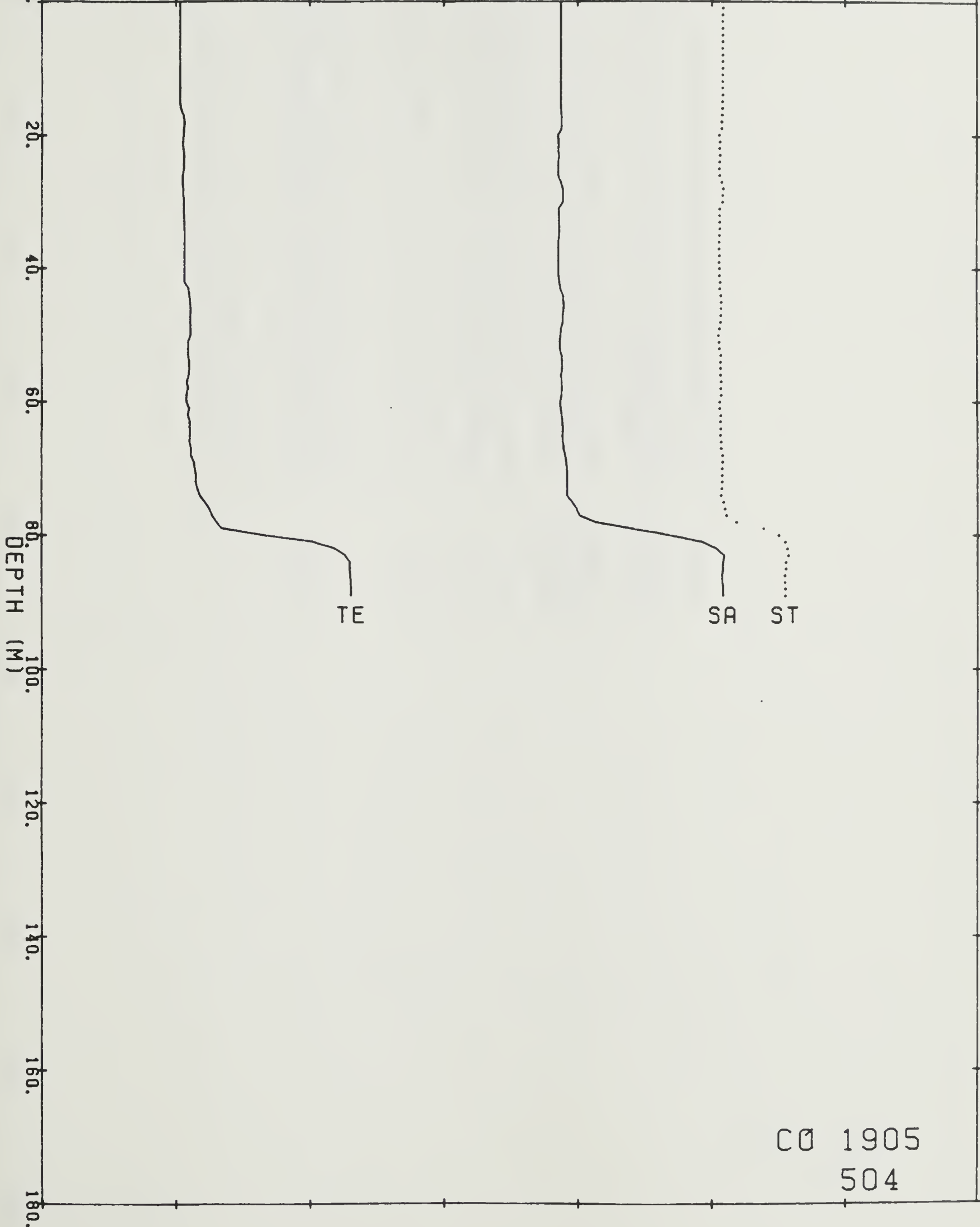
21. 22. 23. 24. 25. 26. 27. 28.

SALINITY (PPT)

30. 31. 32. 33. 34. 35. 36. 37.

TEMPERATURE (DEG C)

8. 10. 12. 14. 16. 18. 20. 22.



C0 1905
504

SHIP CO CRUISE 19-05 STATION 505 POSITION 39 41.69 N 72 5.58 W
 LOCAL TIME 418 DATE 76/ 1/18 WIND = 14knots DIR = 320 DEPTH= 146M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	DTH
0	9.765	33.772	26.033	196.6	0.000	1488.0	0.0
5	9.765	33.772	26.033	196.7	.010	1488.0	5.0
10	9.765	33.772	26.033	196.8	.020	1488.1	10.0
15	9.765	33.772	26.033	196.9	.030	1488.2	15.0
20	9.765	33.772	26.033	197.0	.039	1488.3	20.0
25	9.709	33.757	26.030	197.3	.049	1488.1	25.0
30	9.760	33.774	26.035	196.9	.059	1488.4	30.0
35	9.756	33.780	26.041	196.5	.069	1488.5	35.0
40	9.751	33.781	26.042	196.5	.079	1488.6	40.0
45	9.811	33.825	26.067	194.2	.088	1488.9	45.0
50	9.892	33.881	26.097	191.5	.098	1489.4	50.0
55	9.987	33.852	26.058	195.3	.108	1489.8	55.0
60	10.080	33.906	26.085	192.9	.118	1490.3	60.0
65	10.301	33.975	26.101	191.5	.127	1491.2	65.0
70	10.516	34.031	26.107	191.0	.137	1492.2	70.0
75	10.601	34.061	26.115	190.3	.146	1492.6	75.0
80	11.104	34.406	26.295	173.5	.155	1494.9	80.0
85	12.659	35.264	26.666	138.6	.163	1501.4	85.0
90	14.111	35.593	26.623	143.1	.170	1506.7	90.0
95	14.217	35.507	26.534	151.7	.178	1507.1	95.0
100	14.166	35.534	26.565	148.9	.185	1507.0	100.0
105	14.118	35.544	26.583	147.3	.192	1506.9	105.0
110	13.802	35.490	26.608	145.0	.200	1505.9	110.0
115	13.595	35.571	26.714	135.1	.207	1505.4	115.0
120	13.546	35.555	26.712	135.4	.214	1505.3	120.0
125	13.438	35.622	26.786	128.5	.220	1505.1	125.0
130	13.536	35.602	26.750	132.1	.227	1505.5	130.0
135	13.559	35.615	26.756	131.7	.233	1505.7	135.0
140	13.542	35.606	26.752	132.2	.240	1505.7	140.0
145	13.470	35.603	26.765	131.1	.245	1505.5	144.0

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
4	9.740	33.709						
20	9.780	33.822	6.18	0.50		4.47		
50	10.550	33.940	6.20	0.48		4.20		
84	14.110	35.498	4.37	0.67		6.42		
99	13.690	35.553	4.16	0.81		7.71		
121	13.100	35.554	3.89	0.96		8.91		

SIGMA-T

21. 22. 23. 24. 25. 26. 27. 28.

SALINITY (PPT)

30. 31. 32. 33. 34. 35. 36. 37.

TEMPERATURE (DEG C)

8. 10. 12. 14. 16. 18. 20. 22.



SHIP CO CRUISE 19-05 STATION 506 POSITION 39 31.92 N 71 58.98 W
 LOCAL TIME 742 DATE 76/ 1/18 WIND = 15knots DIR = 320 DEPTH= 525M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	DTH
0	12.058	34.905	26.505	151.8	0.000	1497.6	0.0
5	12.058	34.905	26.505	151.9	.008	1497.6	5.0
10	12.058	34.905	26.505	152.0	.015	1497.7	10.0
15	12.058	34.905	26.505	152.1	.023	1497.8	15.0
20	12.073	34.912	26.507	152.0	.030	1497.9	20.0
25	12.059	34.918	26.515	151.4	.038	1498.0	25.0
30	12.112	34.923	26.508	152.2	.046	1498.2	30.0
35	12.111	34.912	26.500	153.1	.053	1498.3	35.0
40	12.100	34.913	26.503	152.9	.061	1498.4	40.0
45	12.105	34.912	26.501	153.2	.069	1498.5	45.0
50	12.114	34.938	26.520	151.6	.076	1498.6	50.0
55	12.122	34.929	26.511	152.5	.084	1498.7	55.0
60	12.137	34.922	26.503	153.4	.091	1498.8	60.0
65	12.142	34.939	26.515	152.4	.099	1498.9	65.0
70	12.192	34.941	26.507	153.3	.107	1499.2	70.0
75	12.210	34.979	26.533	151.0	.114	1499.4	75.0
80	12.380	35.037	26.545	150.0	.122	1500.1	80.0
85	13.055	35.327	26.636	141.6	.129	1502.8	85.0
90	13.349	35.353	26.596	145.5	.136	1503.9	90.0
95	13.936	35.656	26.708	135.1	.143	1506.3	95.0
100	14.190	35.688	26.679	138.1	.150	1507.3	100.0
105	14.140	35.699	26.698	136.4	.157	1507.2	105.0
110	13.838	35.656	26.729	133.6	.164	1506.3	110.0
115	13.678	35.731	26.821	125.0	.170	1505.9	115.0
120	13.620	35.699	26.808	126.3	.176	1505.8	120.0
125	13.429	35.686	26.838	123.6	.183	1505.2	125.0
130	13.145	35.642	26.862	121.4	.189	1504.3	130.0
135	13.058	35.658	26.892	118.7	.195	1504.1	135.0
140	13.037	35.663	26.900	118.1	.201	1504.1	140.0
145	12.941	35.638	26.900	118.2	.207	1503.8	145.0
150	12.817	35.598	26.894	118.9	.213	1503.4	150.0
155	12.596	35.556	26.905	117.8	.219	1502.7	155.0
160	12.461	35.575	26.947	114.0	.224	1502.4	160.0
165	12.314	35.505	26.921	116.5	.230	1501.9	165.0
170	12.172	35.519	26.960	113.0	.236	1501.5	170.0
175	12.012	35.495	26.972	111.9	.241	1501.0	175.0
180	11.918	35.488	26.985	110.8	.247	1500.7	180.0
185	11.674	35.413	26.973	112.0	.253	1499.9	185.0
190	11.470	35.425	27.020	107.5	.258	1499.3	190.0
195	11.226	35.359	27.014	108.1	.263	1498.4	195.0
200	11.049	35.387	27.068	103.0	.269	1497.9	200.0
225	10.589	35.312	27.093	101.1	.294	1496.6	225.0
250	10.185	35.292	27.149	96.2	.319	1495.5	250.0
275	9.477	35.194	27.192	92.3	.342	1493.2	275.0
300	8.761	35.146	27.271	84.9	.365	1490.9	300.0
325	8.459	35.137	27.312	81.4	.385	1490.1	325.0
350	8.354	35.129	27.322	80.9	.406	1490.1	350.0
375	8.070	35.125	27.362	77.3	.425	1489.5	375.0
400	7.673	35.088	27.392	74.6	.444	1488.3	400.0
425	7.487	35.066	27.402	73.9	.463	1488.0	425.0
450	6.921	35.059	27.477	66.8	.481	1486.2	450.0
475	6.537	35.042	27.516	53.1	.497	1485.0	475.0
500	6.385	35.066	27.555	59.6	.512	1484.9	500.0
518	6.374	35.064	27.555	59.9	.523	1485.1	518.0

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
12	12.040	34.917	5.74	0.41		4.12		
80	14.210	35.657	4.68	0.88		8.77		
121	12.960	35.629	3.82	0.94		8.24		
265	8.930	35.167	3.23	1.61		15.53		
350	8.080	35.121	3.57	1.59		15.77		
489	6.440	35.068	4.40	1.48		14.81		

SIGMA-T

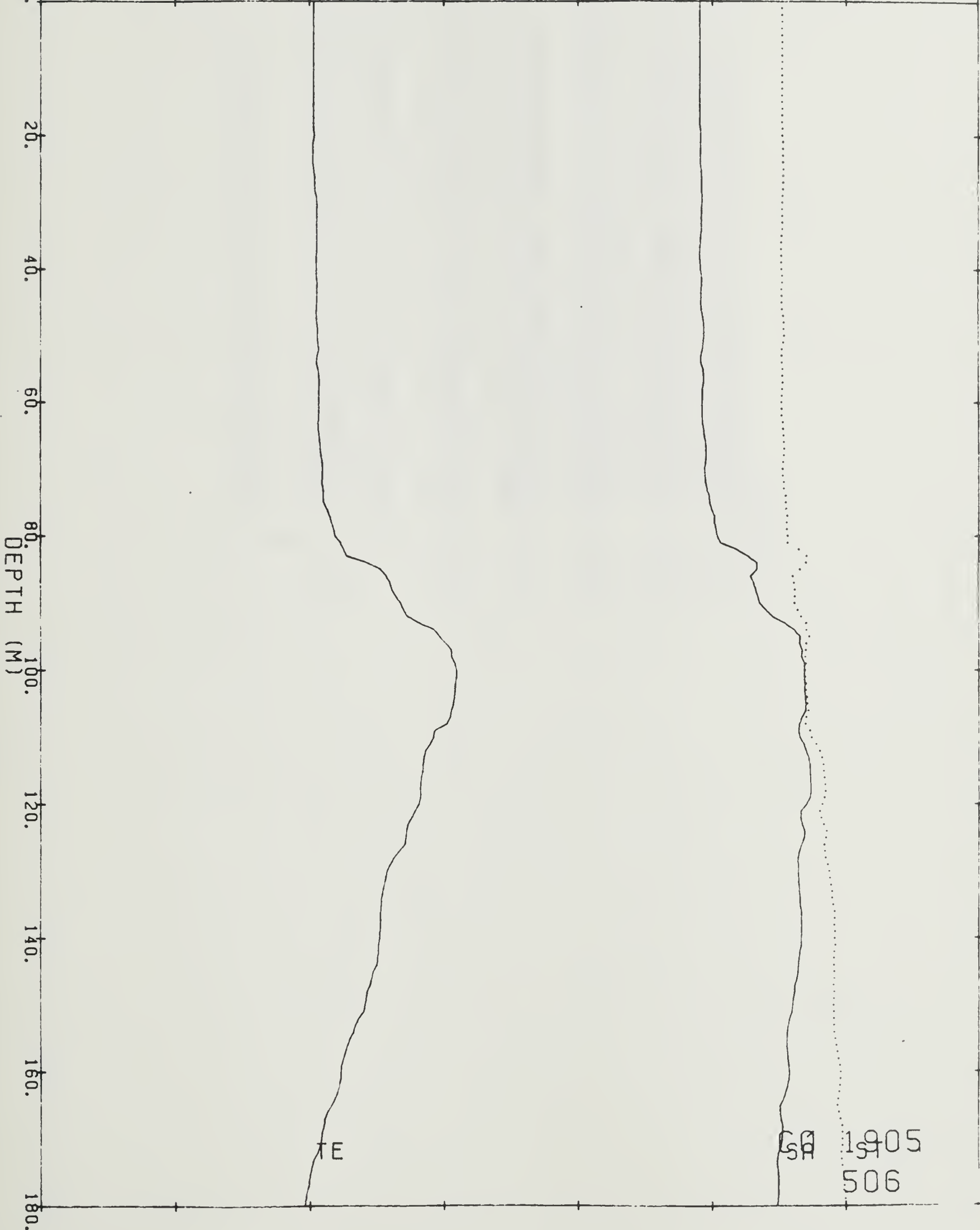
21. 22. 23. 24. 25. 26. 27. 28.

SALINITY (PPT)

30. 31. 32. 33. 34. 35. 36. 37.

TEMPERATURE (DEG C)

8. 10. 12. 14. 16. 18. 20. 22.



SHIP CO CRUISE 19-05 STATION 507 POSITION 39 39.71 N 72 5.99 W
 LOCAL TIME 1100 DATE 76/ 1/18 WIND = 14knots DIR = 350 DEPTH= 150M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	DTH
0	9.619	33.688	25.991	200.5	0.000	1487.3	0.0
5	9.619	33.688	25.991	200.6	.010	1487.4	5.0
10	9.619	33.688	25.991	200.7	.020	1487.5	10.0
15	9.581	33.668	25.982	201.7	.030	1487.4	15.0
20	9.582	33.660	25.975	202.4	.040	1487.5	20.0
25	9.627	33.677	25.981	201.9	.050	1487.7	25.0
30	9.714	33.742	26.018	198.6	.060	1488.2	30.0
35	9.757	33.711	25.987	201.6	.070	1488.4	35.0
40	9.778	33.731	25.999	200.6	.080	1488.6	40.0
45	9.881	33.751	25.997	200.8	.090	1489.1	45.0
50	9.932	33.762	25.997	200.9	.100	1489.4	50.0
55	9.981	33.776	26.000	200.8	.111	1489.6	55.0
60	10.011	33.825	26.033	197.8	.120	1489.9	60.0
65	11.408	35.003	26.704	134.4	.129	1496.5	65.0
70	12.948	35.082	26.468	157.1	.136	1501.9	70.0
75	14.085	35.333	26.427	161.2	.144	1506.1	75.0
80	14.251	35.368	26.419	162.2	.152	1506.8	80.0
85	14.293	35.372	26.413	162.9	.160	1507.0	85.0
90	14.312	35.395	26.427	161.7	.168	1507.1	90.0
95	14.321	35.402	26.430	161.5	.176	1507.3	95.0
100	14.248	35.425	26.464	158.5	.184	1507.1	100.0
105	14.202	35.460	26.501	155.1	.192	1507.1	105.0
110	14.114	35.489	26.542	151.4	.200	1506.9	110.0
115	13.939	35.455	26.552	150.5	.208	1506.4	115.0
120	13.592	35.478	26.643	142.0	.215	1505.4	120.0
125	13.108	35.508	26.765	130.4	.222	1503.9	125.0
130	13.034	35.525	26.794	127.9	.228	1503.8	130.0
135	12.699	35.468	26.817	125.7	.234	1502.6	135.0
140	12.560	35.493	26.863	121.4	.241	1502.3	140.0
145	12.466	35.483	26.874	120.5	.247	1502.0	145.0
148	12.424	35.498	26.894	118.7	.250	1502.0	148.0

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
0	10.070	33.702	6.30	0.48		4.05		
129	12.470	35.523	3.81	1.05		9.59		

SIGMA-T

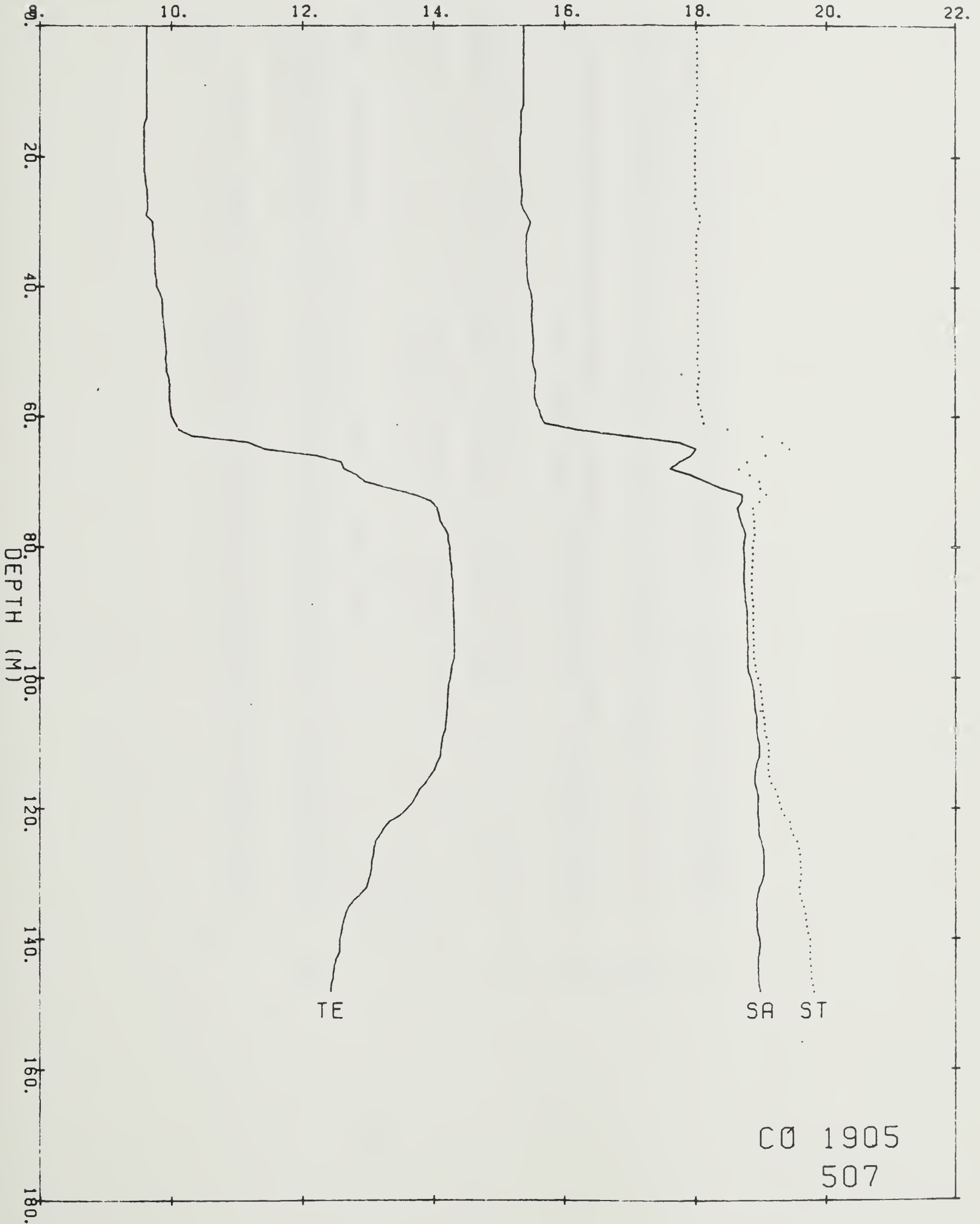
21. 22. 23. 24. 25. 26. 27. 28.

SALINITY (PPT)

30. 31. 32. 33. 34. 35. 36. 37.

TEMPERATURE (DEG C)

20. 10. 12. 14. 16. 18. 20. 22.



SHIP CO CRUISE 19-05 STATION 508 POSITION 39 32.57 N 71 58.61 W
 LOCAL TIME 1350 DATE 76/ 1/18 WIND = 22knots DIR = 330 DEPTH= 750M

QTH	TEM	SAL	SGT	ANO	OYN	SVL	QTH	
0	12.290	34.937	26.485	153.7	0.000	1498.4	0.0	
5	12.290	34.937	26.485	153.8	.008	1498.5	5.0	
10	12.290	34.937	26.485	153.9	.015	1498.6	10.0	
15	12.290	34.937	26.485	154.0	.023	1498.6	15.0	
20	12.331	34.978	26.509	151.9	.031	1498.9	20.0	
25	12.325	34.986	26.516	151.3	.038	1499.0	25.0	
30	12.365	35.008	26.526	150.5	.046	1499.2	30.0	
35	12.396	35.023	26.531	150.2	.053	1499.4	35.0	
40	12.491	35.059	26.540	149.4	.061	1499.9	40.0	
45	12.587	35.084	26.541	149.5	.068	1500.3	45.0	
50	12.578	35.088	26.546	149.2	.076	1500.4	50.0	
55	12.615	35.102	26.549	149.0	.083	1500.6	55.0	
60	12.656	35.108	26.546	149.4	.091	1500.8	60.0	
65	12.702	35.129	26.553	148.9	.098	1501.1	65.0	
70	12.730	35.154	26.567	147.7	.106	1501.3	70.0	
75	12.875	35.196	26.570	147.5	.113	1501.9	75.0	
80	13.014	35.266	26.597	145.2	.120	1502.6	80.0	
85	13.801	35.621	26.710	134.7	.127	1505.7	85.0	
90	14.204	35.633	26.634	142.1	.134	1507.1	90.0	
95	14.366	35.693	26.646	141.2	.141	1507.8	95.0	
100	14.217	35.702	26.684	137.6	.148	1507.4	100.0	
105	14.088	35.707	26.716	134.8	.155	1507.1	105.0	
110	13.998	35.710	26.737	132.8	.162	1506.8	110.0	
115	13.876	35.696	26.752	131.6	.168	1506.5	115.0	
120	13.751	35.695	26.777	129.3	.175	1506.2	120.0	
125	13.673	35.699	26.797	127.5	.181	1506.0	125.0	
130	13.548	35.696	26.821	125.4	.188	1505.7	130.0	
135	13.452	35.680	26.828	124.8	.194	1505.4	135.0	
140	13.405	35.682	26.839	123.9	.200	1505.4	140.0	
145	13.387	35.689	26.849	123.1	.206	1505.4	145.0	
150	13.285	35.668	26.853	122.8	.212	1505.1	150.0	
155	13.099	35.615	26.850	123.2	.219	1504.5	155.0	
160	12.933	35.618	26.886	119.9	.225	1504.0	160.0	
165	12.896	35.620	26.895	119.2	.231	1504.0	165.0	
170	12.837	35.602	26.893	119.5	.237	1503.8	170.0	
175	12.785	35.571	26.879	120.9	.243	1503.7	175.0	
180	12.603	35.585	26.926	116.5	.249	1503.2	180.0	
185	12.579	35.579	26.927	116.6	.254	1503.2	185.0	
190	12.562	35.576	26.928	116.6	.260	1503.2	190.0	
195	12.515	35.571	26.933	116.2	.266	1503.1	195.0	
200	12.477	35.547	26.922	117.4	.272	1503.0	200.0	
225	11.729	35.457	26.996	110.7	.300	1500.8	225.0	
250	11.133	35.392	27.057	105.3	.327	1499.0	250.0	
275	9.691	35.149	27.121	99.1	.353	1493.9	275.0	
300	8.731	35.089	27.231	88.7	.376	1490.7	300.0	
325	8.328	35.106	27.307	81.7	.398	1489.6	325.0	
350	7.840	35.094	27.372	75.7	.417	1488.1	350.0	
375	7.311	35.071	27.431	70.2	.436	1486.5	375.0	
400	7.102	35.038	27.435	70.1	.453	1486.0	400.0	
425	6.618	35.053	27.513	62.6	.470	1484.5	425.0	
450	6.240	35.041	27.554	58.8	.485	1483.4	450.0	
475	6.214	35.041	27.558	58.8	.500	1483.7	475.0	
500	6.079	35.035	27.570	57.8	.514	1483.6	500.0	
600	6.002	35.026	27.573	58.8	.573	1484.9	600.0	
700	5.620	35.010	27.609	56.3	.630	1485.0	700.0	
723	5.395	35.006	27.633	53.9	.643	1484.5	723.0	
DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
5	12.340	35.025	5.79	0.40		3.88		
682	5.510	35.024	5.05	1.36		14.09		

SIGMA-T

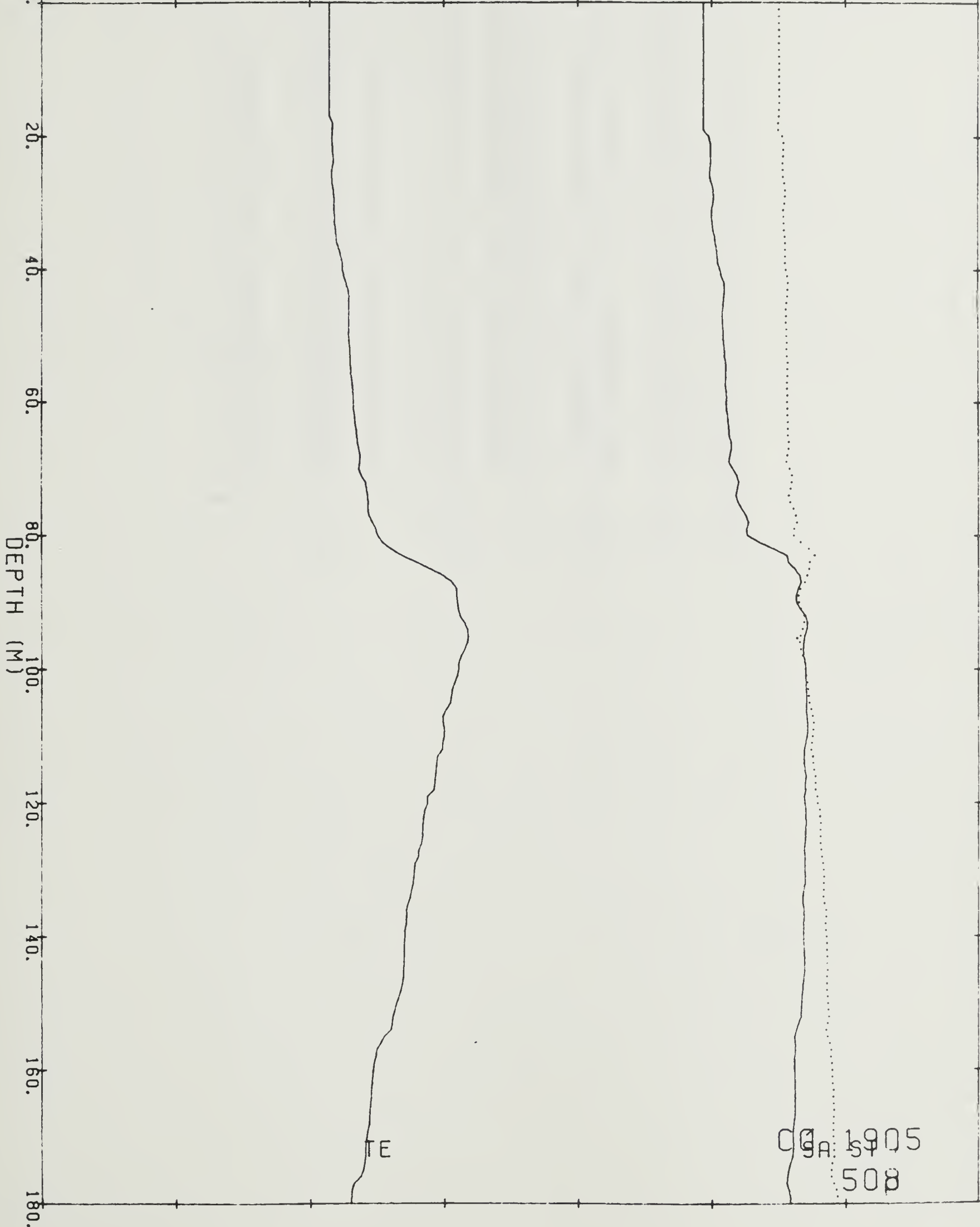
21. 22. 23. 24. 25. 26. 27. 28.

SALINITY (PPT)

30. 31. 32. 33. 34. 35. 36. 37.

TEMPERATURE (DEG C)

8. 10. 12. 14. 16. 18. 20. 22.



SHIP CO CRUISE 19-05 STATION 509 POSITION 39 47.09 N 72 21.17 W
 LOCAL TIME 1737 DATE 76/ 1/18 WIND = 16knots DIR = 320 DEPTH= 140M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	DTH
0	9.308	33.596	25.970	202.5	0.000	1486.0	0.0
5	9.308	33.596	25.970	202.6	.010	1486.1	5.0
10	9.308	33.596	25.970	202.7	.020	1486.2	10.0
15	9.323	33.587	25.961	203.7	.030	1486.3	15.0
20	9.336	33.598	25.967	203.2	.041	1486.5	20.0
25	9.325	33.601	25.971	202.9	.051	1486.5	25.0
30	9.454	33.659	25.996	200.7	.061	1487.2	30.0
35	9.486	33.671	26.000	200.4	.071	1487.4	35.0
40	9.545	33.661	25.982	202.1	.081	1487.7	40.0
45	10.033	33.834	26.036	197.1	.091	1489.7	45.0
50	10.294	33.907	26.049	196.1	.101	1490.9	50.0
55	11.871	34.551	26.265	175.8	.110	1497.4	55.0
60	13.122	35.079	26.430	160.4	.118	1502.4	60.0
65	14.006	35.158	26.309	172.2	.127	1505.5	65.0
70	14.173	35.213	26.316	171.7	.135	1506.1	70.0
75	14.154	35.184	26.297	173.5	.144	1506.1	75.0
80	14.008	35.221	26.357	168.0	.153	1505.8	80.0
85	14.336	35.388	26.416	162.6	.161	1507.1	85.0
90	14.473	35.407	26.401	164.2	.169	1507.7	90.0
95	14.502	35.408	26.396	164.8	.177	1507.9	95.0
100	14.365	35.443	26.452	159.6	.185	1507.5	100.0
105	14.351	35.465	26.472	157.8	.193	1507.6	105.0
110	14.316	35.479	26.491	156.2	.201	1507.6	110.0
115	14.218	35.505	26.532	152.5	.209	1507.4	115.0
120	14.095	35.506	26.559	150.0	.216	1507.1	120.0
125	13.658	35.537	26.675	139.1	.224	1505.8	125.0
130	13.414	35.503	26.699	136.9	.230	1505.0	130.0
135	13.063	35.527	26.789	128.4	.237	1503.9	135.0
138	12.816	35.517	26.831	124.5	.241	1503.1	138.0

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
8	9.330	33.600	6.37	0.48		4.12		
120	12.960	35.554	3.84	0.99		9.20		

SIGMA-T

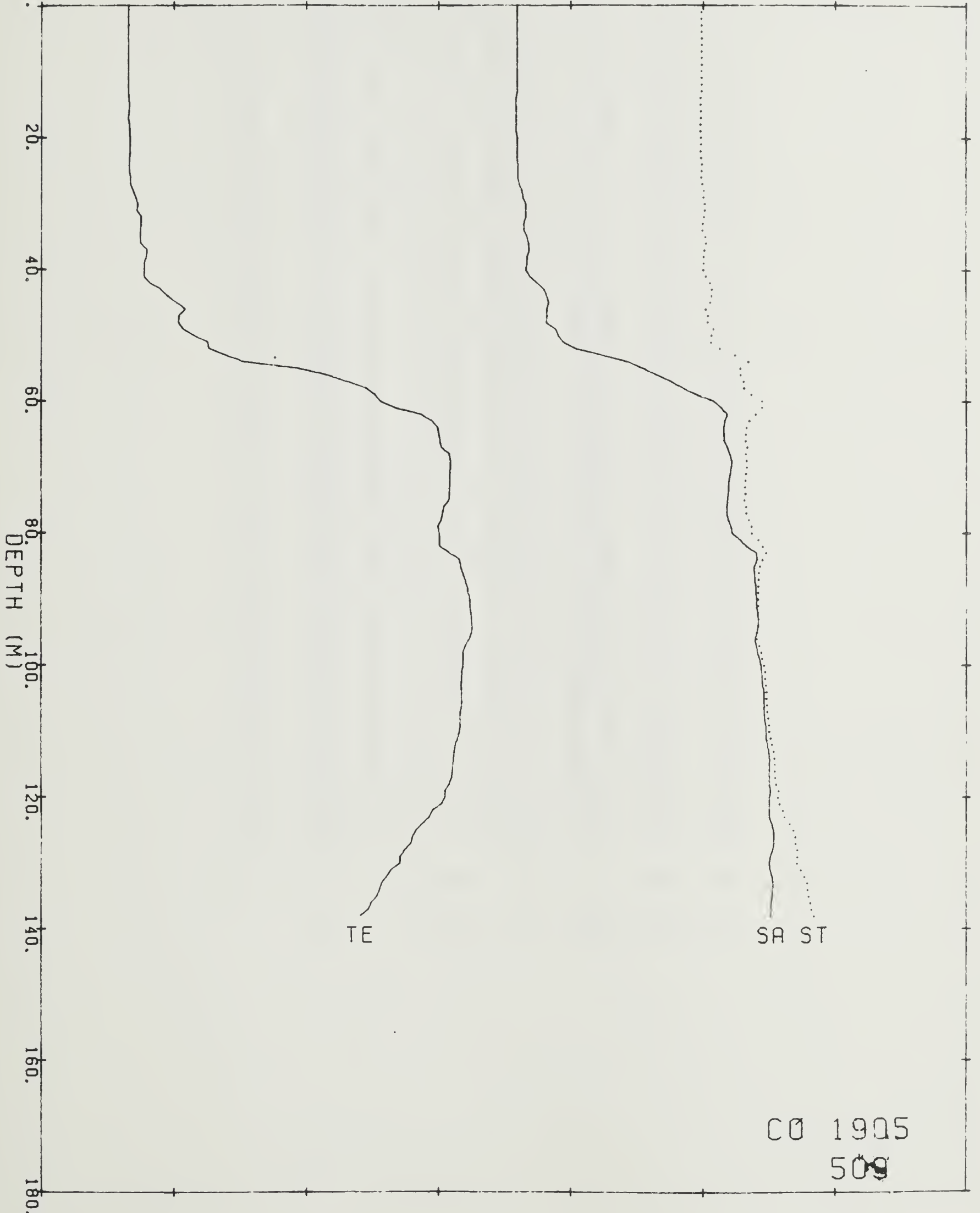
21. 22. 23. 24. 25. 26. 27. 28.

SALINITY (PPT)

30. 31. 32. 33. 34. 35. 36. 37.

TEMPERATURE (DEG C)

80. 10. 12. 14. 16. 18. 20. 22.



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509

SHIP CO CRUISE 19-05 STATION 510 POSITION 39 33.72 N 71 58.08 W
 LOCAL TIME 2025 DATE 76/ 1/19 WIND = 8knots DIR = 330 DEPTH= 480M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	DTH
0	13.421	35.413	26.628	140.1	0.000	1502.8	0.0
5	13.421	35.413	26.628	140.2	.007	1502.9	5.0
10	13.421	35.413	26.628	140.4	.014	1503.0	10.0
15	13.421	35.413	26.628	140.5	.021	1503.0	15.0
20	13.443	35.410	26.621	141.3	.028	1503.2	20.0
25	13.445	35.411	26.621	141.4	.035	1503.3	25.0
30	13.453	35.404	26.614	142.2	.042	1503.4	30.0
35	13.451	35.410	26.619	141.8	.049	1503.5	35.0
40	13.451	35.404	26.615	142.4	.056	1503.5	40.0
45	13.454	35.411	26.619	142.1	.064	1503.6	45.0
50	13.453	35.415	26.623	141.9	.071	1503.7	50.0
55	13.450	35.415	26.623	142.0	.078	1503.8	55.0
60	13.454	35.416	26.623	142.1	.085	1503.9	60.0
65	13.454	35.413	26.621	142.5	.092	1504.0	65.0
70	13.455	35.413	26.621	142.7	.099	1504.0	70.0
75	13.457	35.420	26.626	142.3	.106	1504.1	75.0
80	13.465	35.422	26.626	142.5	.113	1504.2	80.0
85	13.476	35.431	26.630	142.2	.120	1504.4	85.0
90	13.480	35.434	26.632	142.2	.128	1504.5	90.0
95	13.483	35.433	26.631	142.4	.135	1504.6	95.0
100	13.495	35.450	26.641	141.6	.142	1504.7	100.0
105	13.533	35.481	26.657	140.2	.149	1505.0	105.0
110	13.579	35.494	26.658	140.3	.156	1505.2	110.0
115	13.610	35.525	26.675	138.8	.163	1505.4	115.0
120	13.718	35.597	26.709	135.8	.170	1505.9	120.0
125	13.756	35.672	26.759	131.2	.176	1506.2	125.0
130	13.644	35.677	26.786	128.7	.183	1506.0	130.0
135	13.617	35.693	26.804	127.1	.189	1506.0	135.0
140	13.497	35.681	26.820	125.8	.196	1505.7	140.0
145	13.381	35.666	26.832	124.7	.202	1505.3	145.0
150	13.051	35.618	26.862	121.9	.208	1504.3	150.0
155	12.602	35.589	26.930	115.5	.214	1502.8	155.0
160	12.556	35.585	26.936	115.1	.220	1502.7	160.0
165	12.453	35.547	26.926	116.1	.225	1502.4	165.0
170	12.354	35.560	26.956	113.4	.231	1502.2	170.0
175	12.220	35.504	26.939	115.1	.237	1501.7	175.0
180	12.047	35.520	26.985	110.8	.243	1501.2	180.0
185	11.933	35.481	26.976	111.7	.248	1500.9	185.0
190	11.719	35.475	27.012	108.3	.254	1500.2	190.0
195	11.659	35.471	27.021	107.7	.259	1500.1	195.0
200	11.558	35.443	27.018	108.0	.264	1499.8	200.0
225	10.922	35.382	27.088	101.7	.291	1497.8	225.0
250	10.110	35.288	27.158	95.3	.315	1495.2	250.0
275	9.870	35.273	27.188	92.9	.339	1494.7	275.0
300	9.420	35.195	27.203	91.8	.362	1493.4	300.0
325	8.993	35.186	27.265	86.1	.384	1492.2	325.0
350	8.413	35.102	27.291	83.8	.405	1490.3	350.0
375	7.666	35.103	27.405	72.9	.425	1487.9	375.0
400	7.350	35.095	27.444	69.4	.443	1487.1	400.0
425	6.941	35.073	27.485	65.6	.460	1485.8	425.0
450	6.842	35.072	27.498	64.7	.476	1485.9	450.0
475	6.543	35.070	27.537	61.1	.492	1485.1	475.0
475	6.543	35.070	27.537	61.1	.492	1485.1	475.0

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
8	13.430	35.437	5.31	0.39		3.64		
448	6.370	35.053	4.03	1.48		14.90		

SIGMA-T

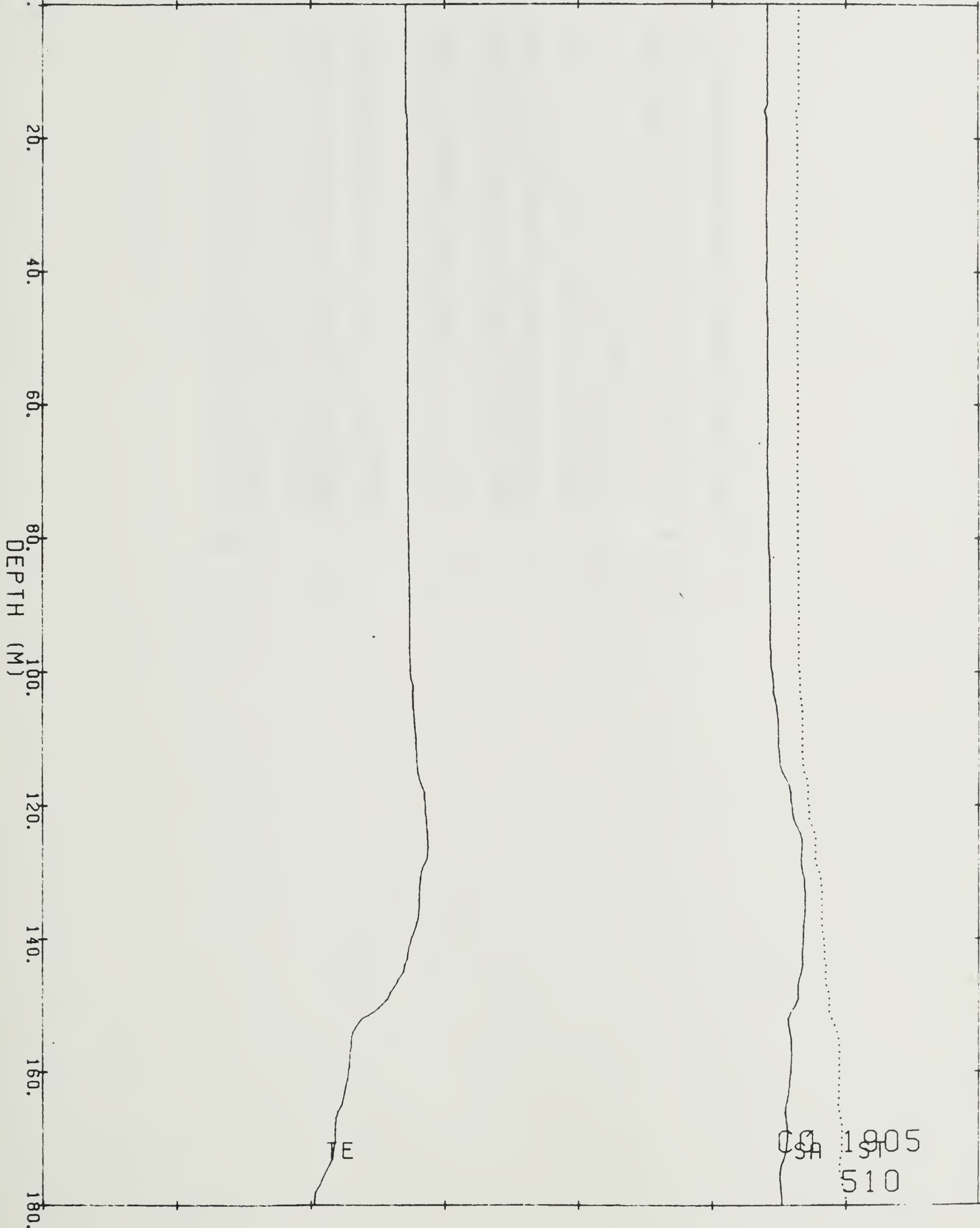
21. 22. 23. 24. 25. 26. 27. 28.

SALINITY (PPT)

30. 31. 32. 33. 34. 35. 36. 37.

TEMPERATURE (DEG C)

8. 10. 12. 14. 16. 18. 20. 22.



SHIP CO CRUISE 19-05 STATION 511 POSITION 39 39.12 N 72 7.01 W
 LOCAL TIME 2336 DATE 76/ 1/19 WIND = 4knots DIR = 380 DEPTH= 145M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	DTH
0	9.609	33.763	26.052	194.8	0.000	1487.4	0.0
5	9.609	33.763	26.052	194.9	.010	1487.5	5.0
10	9.609	33.763	26.052	195.0	.019	1487.5	10.0
15	9.615	33.761	26.049	195.3	.029	1487.6	15.0
20	9.609	33.767	26.055	194.9	.039	1487.7	20.0
25	9.633	33.779	26.060	194.5	.049	1487.9	25.0
30	9.639	33.776	26.057	194.9	.058	1488.0	30.0
35	9.616	33.772	26.057	194.9	.068	1488.0	35.0
40	9.657	33.822	26.090	191.9	.078	1488.3	40.0
45	10.252	34.051	26.168	184.6	.087	1490.8	45.0
50	11.353	34.330	26.190	182.8	.096	1495.2	50.0
55	11.634	34.392	26.186	183.3	.106	1496.3	55.0
60	11.708	34.376	26.160	185.9	.115	1496.6	60.0
65	11.723	34.389	26.167	185.3	.124	1496.8	65.0
70	11.741	34.415	26.184	183.8	.133	1497.0	70.0
75	12.138	34.662	26.301	173.0	.142	1498.7	75.0
80	13.674	35.300	26.488	155.6	.151	1504.8	80.0
85	14.429	35.400	26.406	163.6	.158	1507.4	85.0
90	14.336	35.345	26.383	165.9	.167	1507.2	90.0
95	14.243	35.384	26.433	161.3	.175	1507.0	95.0
100	14.273	35.440	26.470	157.9	.183	1507.2	100.0
105	14.267	35.474	26.497	155.5	.191	1507.3	105.0
110	14.187	35.510	26.542	151.3	.198	1507.2	110.0
115	13.996	35.525	26.595	146.5	.206	1506.7	115.0
120	13.833	35.538	26.639	142.4	.213	1506.3	120.0
125	13.570	35.504	26.667	139.8	.220	1505.4	125.0
130	13.373	35.550	26.744	132.7	.227	1504.9	130.0
135	13.279	35.509	26.731	133.9	.234	1504.6	135.0
140	12.745	35.518	26.846	123.1	.240	1502.9	140.0
145	12.541	35.522	26.890	119.0	.245	1502.3	144.0

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
6	9.630	33.777	6.30	0.48		4.21		
126	12.640	33.784	3.72	1.08		9.44		

SIGMA-T

21. 22. 23. 24. 25. 26. 27. 28.

SALINITY (PPT)

30. 31. 32. 33. 34. 35. 36. 37.

TEMPERATURE (DEG C)

8. 10. 12. 14. 16. 18. 20. 22.



C0 1905
511

SHIP CO CRUISE 19-05 STATION 512 POSITION 39 32.69 N 71 58.32 W
 LOCAL TIME 221 DATE 76/ 1/19 WIND = 12knots DIR = 330 DEPTH= 607M

DTH	TEM	SAL	SGT	AND	DYN	SVL	DTH	
0	13.506	35.383	26.587	143.9	0.000	1503.0	0.0	
5	13.506	35.383	26.587	144.1	.007	1503.1	5.0	
10	13.506	35.383	26.587	144.2	.014	1503.2	10.0	
15	13.508	35.413	26.610	142.2	.022	1503.3	15.0	
20	13.502	35.419	26.616	141.8	.029	1503.4	20.0	
25	13.523	35.427	26.618	141.7	.036	1503.6	25.0	
30	13.524	35.423	26.614	142.2	.043	1503.6	30.0	
35	13.520	35.423	26.615	142.2	.050	1503.7	35.0	
40	13.522	35.425	26.616	142.3	.057	1503.8	40.0	
45	13.519	35.425	26.617	142.4	.064	1503.9	45.0	
50	13.524	35.425	26.616	142.6	.071	1504.0	50.0	
55	13.520	35.424	26.616	142.7	.078	1504.0	55.0	
60	13.518	35.427	26.619	142.6	.086	1504.1	60.0	
65	13.522	35.426	26.617	142.9	.093	1504.2	65.0	
70	13.523	35.427	26.618	143.0	.100	1504.3	70.0	
75	13.520	35.427	26.618	143.1	.107	1504.4	75.0	
80	13.516	35.431	26.622	142.8	.114	1504.4	80.0	
85	13.516	35.427	26.619	143.3	.121	1504.5	85.0	
90	13.518	35.429	26.620	143.3	.128	1504.6	90.0	
95	13.515	35.427	26.619	143.5	.136	1504.7	95.0	
100	13.521	35.430	26.620	143.5	.143	1504.8	100.0	
105	13.520	35.432	26.622	143.5	.150	1504.8	105.0	
110	13.525	35.433	26.622	143.7	.157	1504.9	110.0	
115	13.521	35.431	26.621	143.9	.164	1505.0	115.0	
120	13.534	35.431	26.618	144.3	.172	1505.1	120.0	
125	13.525	35.427	26.617	144.5	.179	1505.2	125.0	
130	13.523	35.430	26.620	144.4	.186	1505.3	130.0	
135	13.576	35.537	26.692	137.7	.193	1505.7	135.0	
140	13.765	35.602	26.703	136.9	.200	1506.4	140.0	
145	13.673	35.638	26.750	132.6	.207	1506.3	145.0	
150	13.455	35.663	26.814	126.5	.213	1505.7	150.0	
155	13.278	35.646	26.838	124.4	.219	1505.1	155.0	
160	12.669	35.502	26.849	123.3	.226	1503.0	160.0	
165	12.521	35.531	26.901	118.5	.232	1502.6	165.0	
170	12.382	35.521	26.920	116.7	.238	1502.2	170.0	
175	12.300	35.535	26.947	114.3	.243	1502.0	175.0	
180	12.265	35.535	26.954	113.8	.249	1502.0	180.0	
185	12.100	35.453	26.922	116.8	.255	1501.4	185.0	
190	11.965	35.463	26.956	113.7	.261	1501.0	190.0	
195	11.836	35.473	26.989	110.7	.266	1500.7	195.0	
200	11.813	35.477	26.996	110.2	.272	1500.7	200.0	
225	11.069	35.387	27.065	104.0	.298	1498.4	225.0	
250	10.746	35.351	27.095	101.5	.324	1497.6	250.0	
275	9.966	35.231	27.139	97.6	.349	1495.0	275.0	
300	9.304	35.171	27.203	91.7	.373	1492.9	300.0	
325	8.798	35.139	27.260	86.5	.395	1491.4	325.0	
350	8.158	35.090	27.321	80.8	.416	1489.3	350.0	
375	7.572	35.077	27.398	73.5	.435	1487.5	375.0	
400	6.928	35.054	27.472	66.5	.453	1485.4	400.0	
425	6.723	35.043	27.491	64.8	.469	1485.0	425.0	
450	6.352	35.037	27.536	60.6	.485	1483.9	450.0	
475	6.229	35.038	27.553	59.2	.500	1483.8	475.0	
500	6.261	35.046	27.555	59.4	.515	1484.3	500.0	
566	5.690	34.987	27.582	57.2	.553	1483.1	566.0	
DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
536	5.760	35.041	4.86	1.35		13.04		

SIGMA-T

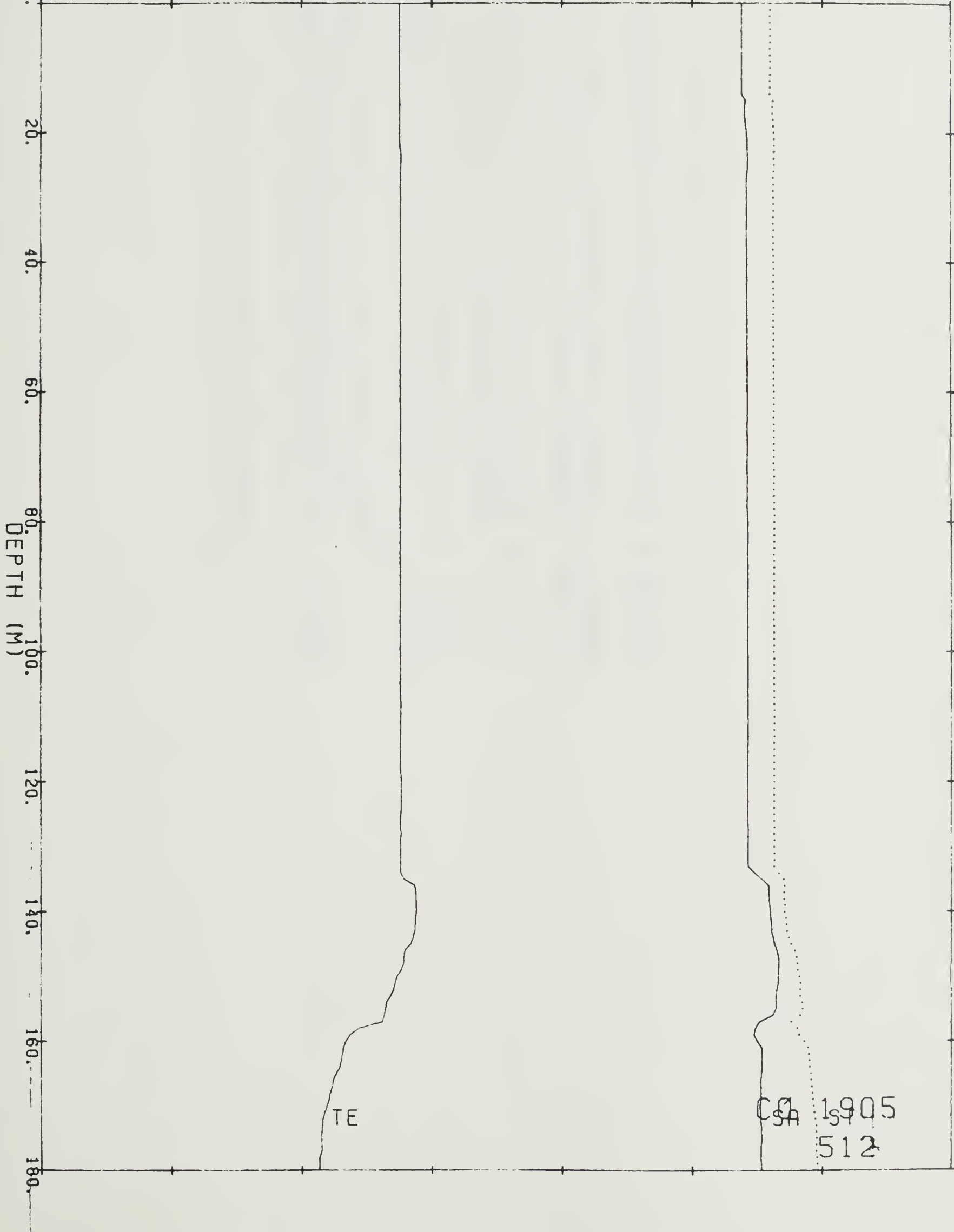
21. 22. 23. 24. 25. 26. 27. 28.

SALINITY (PPT)

30. 31. 32. 33. 34. 35. 36. 37.

TEMPERATURE (DEG C)

8. 10. 12. 14. 16. 18. 20. 22.



SHIP CO CRUISE 19-05 STATION 513 POSITION 39 38.70 N 72 4.98 W
 LOCAL TIME 609 DATE 76/ 1/19 WIND = 8knots DIR = 300 DEPTH= 156M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	DTH
0	9.292	33.901	26.211	179.6	0.000	1486.4	0.0
5	9.292	33.901	26.211	179.7	.009	1486.5	5.0
10	9.292	33.901	26.211	179.8	.018	1486.5	10.0
15	9.285	33.891	26.205	180.5	.027	1486.6	15.0
20	9.299	33.901	26.210	180.1	.036	1486.7	20.0
25	9.372	33.905	26.201	181.0	.045	1487.1	25.0
30	9.386	33.935	26.223	179.1	.054	1487.3	30.0
35	9.541	34.023	26.266	175.1	.063	1488.0	35.0
40	10.087	34.272	26.369	165.5	.071	1490.4	40.0
45	10.651	34.376	26.352	167.2	.080	1492.7	45.0
50	10.926	34.537	26.429	160.1	.088	1493.9	50.0
55	10.837	34.579	26.478	155.6	.096	1493.8	55.0
60	11.043	34.677	26.517	152.0	.103	1494.7	60.0
65	11.561	34.780	26.502	153.6	.111	1496.7	65.0
70	12.434	35.147	26.620	142.6	.119	1500.3	70.0
75	12.811	35.190	26.579	146.7	.126	1501.7	75.0
80	13.121	35.322	26.619	143.1	.133	1503.0	80.0
85	13.435	35.402	26.616	143.5	.140	1504.2	85.0
90	13.632	35.529	26.674	138.2	.147	1505.1	90.0
95	13.652	35.543	26.681	137.7	.154	1505.3	95.0
100	13.654	35.556	26.690	136.9	.161	1505.4	100.0
105	13.656	35.591	26.717	134.6	.168	1505.5	105.0
110	13.639	35.683	26.792	127.6	.174	1505.6	110.0
115	13.574	35.725	26.838	123.4	.181	1505.6	115.0
120	13.537	35.724	26.845	122.9	.187	1505.5	120.0
125	13.203	35.672	26.873	120.2	.193	1504.4	125.0
130	13.006	35.679	26.919	116.0	.199	1503.9	130.0
135	12.990	35.677	26.920	116.0	.205	1503.9	135.0
140	12.921	35.663	26.923	115.8	.210	1503.7	140.0
145	12.446	35.550	26.930	115.2	.216	1502.0	145.0
150	12.273	35.586	26.992	109.4	.222	1501.6	150.0
155	12.272	35.590	26.995	109.2	.227	1501.7	155.0
155	12.272	35.590	26.995	109.2	.227	1501.7	155.0

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
12	9.390	33.880	6.35	0.46		4.72		
31	10.990	34.538	6.05	0.44		4.48		
47	11.310	34.699	6.06	0.44		4.53		
61	13.150	35.187	5.41	0.52		5.10		
87	13.670	35.512	4.48	0.71		6.55		
137	12.290	35.542	3.79	1.09		9.97		

SIGMA-T

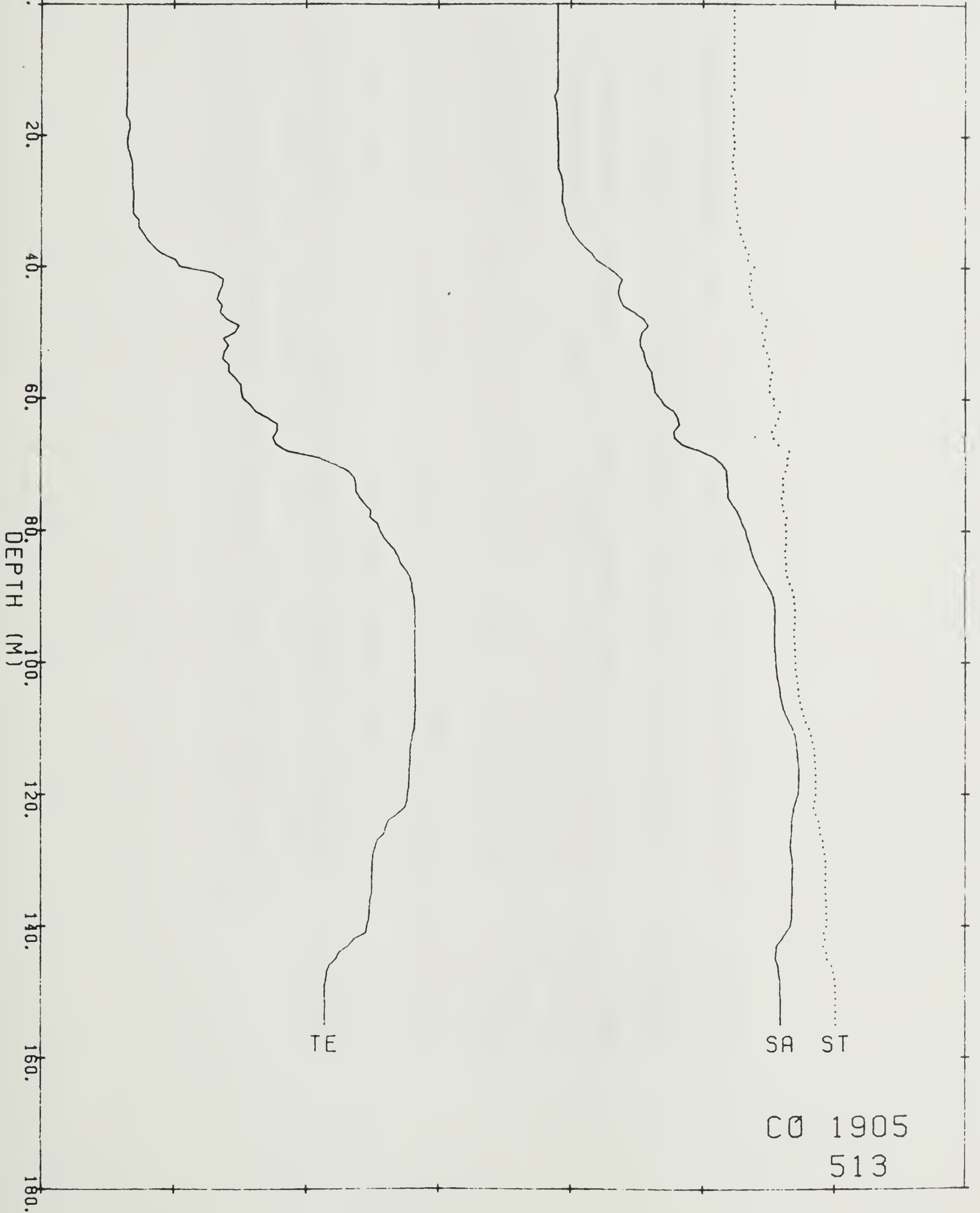
21. 22. 23. 24. 25. 26. 27. 28.

SALINITY (PPT)

30. 31. 32. 33. 34. 35. 36. 37.

TEMPERATURE (DEG C)

8. 10. 12. 14. 16. 18. 20. 22.



SHIP CO CRUISE 19-05 STATION 514 POSITION 39 33.72 N 71 58.08 W
 LOCAL TIME 856 DATE 76/ 1/19 WIND = 5knots DIR = 340 DEPTH= 494M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	DTH
0	13.624	35.416	26.588	143.8	0.000	1503.5	0.0
5	13.624	35.416	26.588	144.0	.007	1503.5	5.0
10	13.624	35.416	26.588	144.1	.014	1503.6	10.0
15	13.608	35.465	26.629	140.4	.022	1503.7	15.0
20	13.580	35.460	26.631	140.3	.029	1503.7	20.0
25	13.579	35.460	26.632	140.4	.036	1503.8	25.0
30	13.581	35.462	26.633	140.5	.043	1503.9	30.0
35	13.568	35.458	26.632	140.6	.050	1503.9	35.0
40	13.555	35.458	26.635	140.5	.057	1503.9	40.0
45	13.558	35.459	26.635	140.6	.064	1504.0	45.0
50	13.565	35.463	26.637	140.6	.071	1504.1	50.0
55	13.565	35.459	26.634	141.0	.078	1504.2	55.0
60	13.571	35.462	26.635	141.1	.085	1504.3	60.0
65	13.565	35.462	26.636	141.1	.092	1504.4	65.0
70	13.568	35.466	26.638	141.0	.099	1504.5	70.0
75	13.564	35.460	26.635	141.5	.106	1504.5	75.0
80	13.565	35.466	26.639	141.2	.113	1504.6	80.0
85	13.562	35.463	26.637	141.5	.120	1504.7	85.0
90	13.561	35.463	26.638	141.6	.127	1504.8	90.0
95	13.558	35.460	26.636	141.9	.134	1504.8	95.0
100	13.561	35.465	26.639	141.8	.141	1504.9	100.0
105	13.568	35.464	26.637	142.1	.148	1505.0	105.0
110	13.562	35.465	26.639	142.1	.156	1505.1	110.0
115	13.565	35.468	26.641	142.0	.163	1505.2	115.0
120	13.572	35.472	26.642	142.0	.170	1505.3	120.0
125	13.594	35.479	26.643	142.1	.177	1505.5	125.0
130	13.607	35.492	26.651	141.5	.184	1505.6	130.0
135	13.680	35.646	26.755	131.8	.191	1506.1	135.0
140	13.655	35.654	26.766	130.9	.197	1506.1	140.0
145	13.356	35.650	26.825	125.4	.204	1505.2	145.0
150	13.311	35.656	26.839	124.2	.210	1505.2	150.0
155	13.284	35.659	26.846	123.6	.216	1505.2	155.0
160	13.071	35.578	26.827	125.5	.222	1504.4	160.0
165	12.801	35.581	26.884	120.2	.229	1503.6	165.0
170	12.743	35.598	26.909	118.0	.235	1503.5	170.0
175	12.335	35.423	26.853	123.2	.241	1502.0	175.0
180	11.990	35.511	26.989	110.4	.246	1501.0	180.0
185	11.807	35.475	26.996	109.8	.252	1500.4	185.0
190	11.631	35.457	27.015	108.0	.257	1499.9	190.0
195	11.509	35.446	27.029	106.8	.263	1499.5	195.0
200	11.493	35.457	27.041	105.8	.268	1499.5	200.0
225	10.609	35.328	27.102	100.3	.294	1496.7	225.0
250	9.647	35.242	27.201	91.0	.318	1493.5	250.0
275	9.098	35.193	27.254	86.3	.340	1491.8	275.0
300	8.814	35.156	27.270	85.0	.361	1491.1	300.0
325	8.414	35.140	27.321	80.5	.382	1490.0	325.0
350	8.237	35.113	27.327	80.3	.402	1489.7	350.0
375	7.176	35.074	27.453	68.0	.421	1485.9	375.0
400	6.898	35.066	27.485	65.1	.437	1485.3	400.0
425	6.495	35.042	27.521	61.8	.453	1484.0	425.0
450	6.344	35.043	27.542	60.0	.468	1483.9	450.0
475	6.196	35.058	27.573	57.3	.483	1483.7	475.0
487	6.130	35.053	27.578	57.0	.490	1483.6	487.0

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
7	13.590	35.475	5.40	0.43		4.14		
104	13.520	35.444	5.44	0.46		4.43		
121	13.750	35.543	5.12	0.57		5.20		
184	11.420	35.461	3.41	1.32		11.62		
222	10.120	35.289	3.29	1.53		14.49		
304	8.330	35.125	3.48	1.62		16.28		
418	8.340	35.045	4.56	1.44		15.07		
465	6.160	35.054	4.68	1.40		14.83		

SIGMA-T

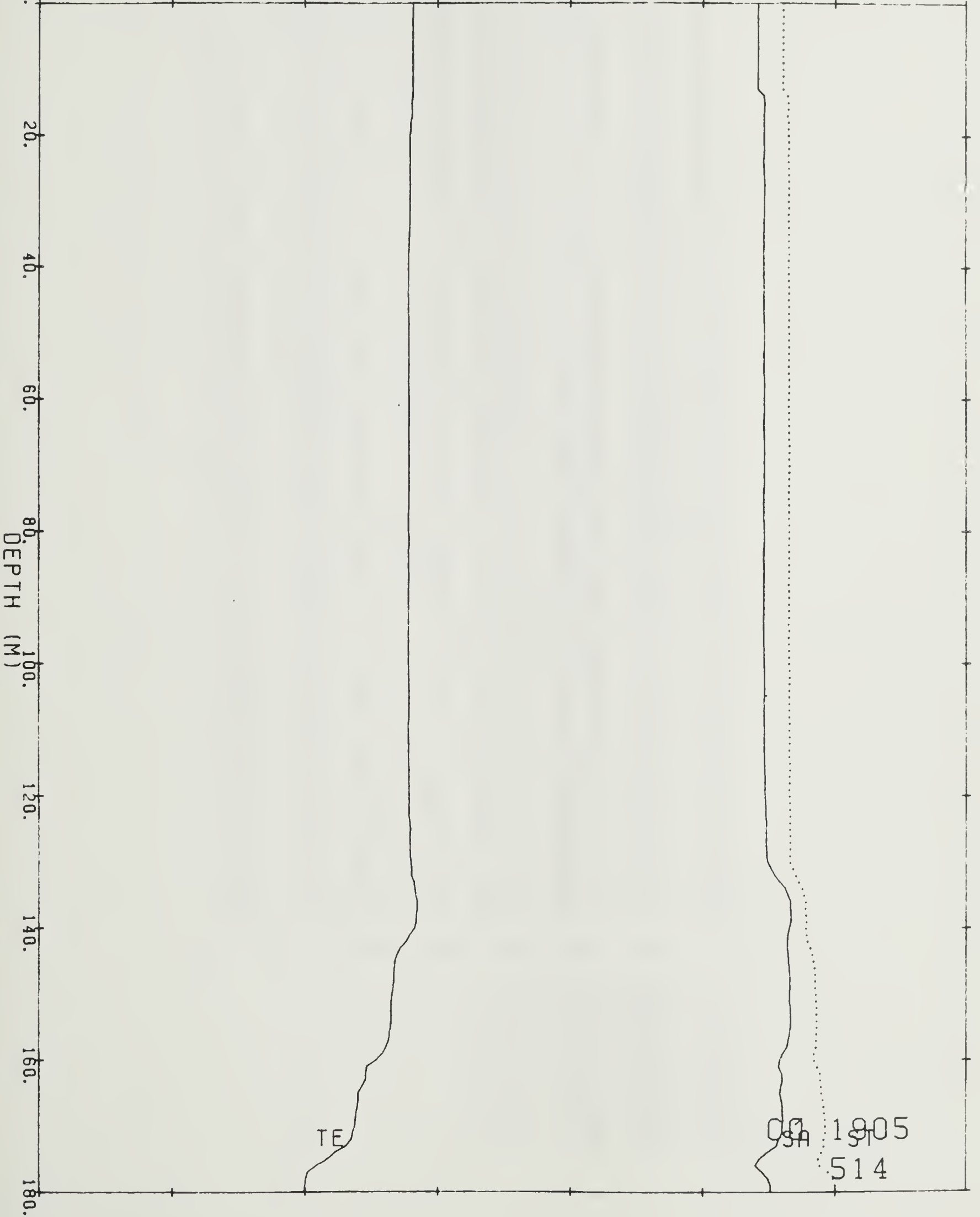
21. 22. 23. 24. 25. 26. 27. 28.

SALINITY (PPT)

30. 31. 32. 33. 34. 35. 36. 37.

TEMPERATURE (DEG C)

8. 10. 12. 14. 16. 18. 20. 22.



SHIP CO CRUISE 19-05 STATION 515 POSITION 39 29.58 N 72 16.67 W
 LOCAL TIME 1526 DATE 76/ 1/19 WIND = 1knots DIR = 30 DEPTH= 870M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	DTH
0	9.492	33.668	25.997	200.0	0.000	1486.8	0.0
5	9.492	33.668	25.997	200.1	.010	1486.9	5.0
10	9.492	33.668	25.997	200.2	.020	1487.0	10.0
15	9.492	33.668	25.997	200.3	.030	1487.1	15.0
20	9.485	33.669	25.998	200.2	.040	1487.1	20.0
25	9.497	33.667	25.995	200.6	.050	1487.2	25.0
30	9.494	33.669	25.997	200.5	.060	1487.3	30.0
35	9.498	33.668	25.996	200.8	.070	1487.4	35.0
40	9.497	33.671	25.998	200.6	.080	1487.5	40.0
45	9.502	33.670	25.996	200.9	.090	1487.6	45.0
50	9.514	33.681	26.003	200.3	.100	1487.7	50.0
55	9.560	33.694	26.006	200.2	.110	1488.0	55.0
60	9.635	33.719	26.013	199.6	.120	1488.4	60.0
65	9.847	33.817	26.054	195.8	.130	1489.4	65.0
70	10.648	34.026	26.080	193.6	.140	1492.6	70.0
75	12.609	34.698	26.237	179.1	.149	1500.4	75.0
80	13.500	35.072	26.347	168.8	.158	1503.9	80.0
85	14.131	35.243	26.348	169.0	.166	1506.3	85.0
90	14.244	35.313	26.378	166.3	.175	1506.8	90.0
95	14.373	35.394	26.413	163.2	.183	1507.4	95.0
100	14.414	35.407	26.414	163.2	.191	1507.6	100.0
105	14.011	35.514	26.583	147.3	.199	1506.6	105.0
110	13.763	35.528	26.646	141.5	.206	1505.8	110.0
115	13.717	35.548	26.671	139.2	.213	1505.8	115.0
120	13.645	35.557	26.693	137.2	.220	1505.7	120.0
125	13.225	35.551	26.775	129.5	.227	1504.3	125.0
130	12.935	35.540	26.825	124.9	.233	1503.4	130.0
135	12.790	35.548	26.860	121.6	.239	1503.0	135.0
140	12.669	35.538	26.877	120.2	.245	1502.7	140.0
145	12.641	35.545	26.888	119.2	.251	1502.7	145.0
150	12.512	35.531	26.903	117.9	.257	1502.3	150.0
155	12.338	35.511	26.921	116.3	.263	1501.8	155.0
160	12.169	35.498	26.944	114.2	.269	1501.3	160.0
165	12.122	35.486	26.944	114.3	.274	1501.2	165.0
170	11.977	35.467	26.957	113.2	.280	1500.7	170.0
175	11.931	35.469	26.967	112.3	.286	1500.7	175.0
180	11.890	35.462	26.970	112.2	.291	1500.6	180.0
185	11.823	35.454	26.976	111.7	.297	1500.4	185.0
190	11.755	35.446	26.983	111.1	.303	1500.3	190.0
195	11.741	35.443	26.983	111.2	.308	1500.3	195.0
200	11.681	35.440	26.992	110.4	.314	1500.2	200.0
225	11.293	35.400	27.034	107.0	.341	1499.2	225.0
250	10.183	35.269	27.131	97.9	.366	1495.5	250.0
275	9.488	35.209	27.202	91.3	.390	1493.3	275.0
300	8.361	35.106	27.302	81.7	.412	1489.3	300.0
325	8.049	35.108	27.352	77.3	.432	1488.5	325.0
350	7.688	35.076	27.380	74.8	.451	1487.5	350.0
375	7.512	35.066	27.398	73.4	.469	1487.2	375.0
400	7.022	35.032	27.441	69.4	.487	1485.7	400.0
425	6.988	35.048	27.459	68.1	.504	1486.0	425.0
450	6.734	35.038	27.486	65.7	.521	1485.4	450.0
475	6.541	35.029	27.505	64.1	.537	1485.0	475.0
500	6.359	35.026	27.527	62.2	.553	1484.7	500.0
600	5.843	34.998	27.571	58.8	.614	1484.2	600.0
700	5.374	34.990	27.623	54.6	.670	1484.0	700.0
800	5.076	34.982	27.652	52.5	.724	1484.4	800.0
865	5.028	34.980	27.656	52.8	.758	1485.3	865.0

DTH	TEM	SAL	DXG	PHOS	NITR	SIL	NO2	AMM
9	9.500	33.724	6.40					
81	14.380	35.483	4.97					
169	11.760	35.491	3.67					
246	8.520	35.280	3.48					
332	7.640	35.045	4.75					
406	6.980	35.076	4.40					
508	6.230	35.054	4.80					
600	5.800	35.022	5.22					
675	5.360	35.021	5.35					
756	5.150	35.010	5.48					
803	5.030	35.014	5.39					

SIGMA-T

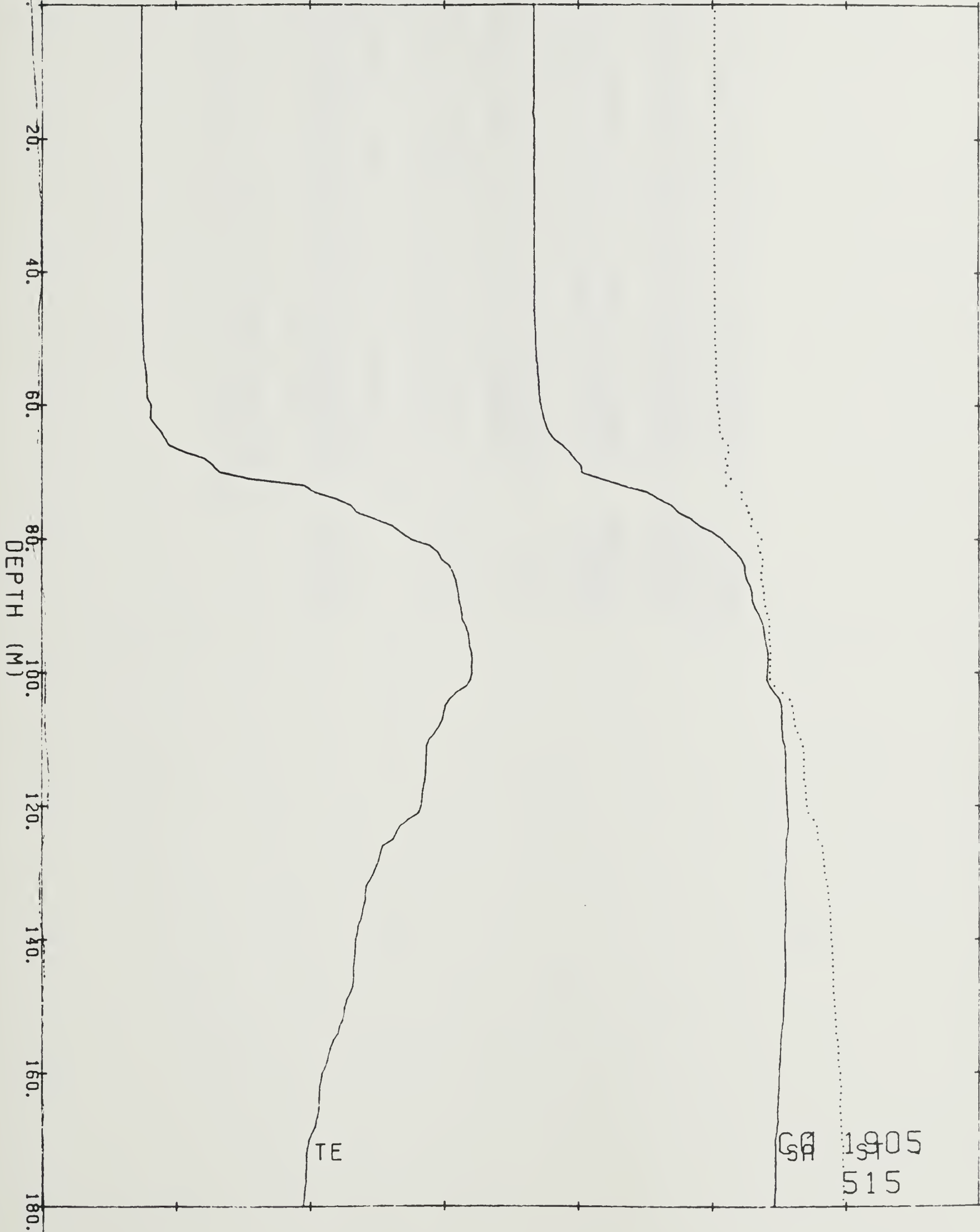
21. 22. 23. 24. 25. 26. 27. 28.

SALINITY (PPT)

30. 31. 32. 33. 34. 35. 36. 37.

TEMPERATURE (DEG C)

8. 10. 12. 14. 16. 18. 20. 22.



SHIP CO CRUISE 19-05 STATION 516 POSITION 39 26.39 N 72 24.12 W
 LOCAL TIME 1941 DATE 76/ 1/19 WIND = 2knots DIR = 270 DEPTH= 140M

DTH	TEM	SAL	SGT	AND	DYN	SVL	DTH
0	9.945	33.907	26.108	189.4	0.000	1488.8	0.0
5	9.945	33.907	26.108	189.5	.009	1488.9	5.0
10	9.948	33.897	26.100	190.4	.019	1488.9	10.0
15	9.965	33.899	26.098	190.6	.028	1489.1	15.0
20	9.977	33.908	26.103	190.3	.038	1489.2	20.0
25	9.970	33.907	26.104	190.3	.048	1489.3	25.0
30	9.977	33.913	26.107	190.1	.057	1489.4	30.0
35	9.985	33.912	26.105	190.4	.067	1489.5	35.0
40	9.995	33.919	26.109	190.1	.076	1489.6	40.0
45	10.003	33.915	26.105	190.7	.086	1489.7	45.0
50	10.030	33.932	26.113	189.9	.095	1489.9	50.0
55	10.174	34.032	26.167	185.0	.104	1490.7	55.0
60	10.622	34.207	26.226	179.6	.114	1492.6	60.0
65	10.680	34.110	26.140	187.8	.123	1492.8	65.0
70	11.050	34.490	26.370	166.2	.132	1494.6	70.0
75	12.078	34.789	26.411	162.5	.140	1498.7	75.0
80	12.913	34.919	26.348	168.7	.148	1501.8	80.0
85	12.294	34.644	26.257	177.4	.157	1499.4	85.0
90	12.720	35.021	26.466	157.8	.165	1501.4	90.0
95	13.114	34.873	26.272	176.3	.174	1502.6	95.0
100	13.069	35.147	26.493	155.5	.182	1502.9	100.0
105	13.194	35.152	26.472	157.7	.190	1503.4	105.0
110	13.320	35.224	26.502	155.0	.197	1504.0	110.0
115	13.409	35.249	26.503	155.0	.205	1504.4	115.0
120	13.760	35.376	26.529	152.8	.213	1505.8	120.0
125	13.570	35.313	26.520	153.8	.221	1505.2	125.0
130	13.370	35.396	26.625	143.9	.228	1504.7	130.0
135	13.281	35.531	26.748	132.4	.235	1504.7	135.0
138	13.211	35.585	26.804	127.1	.239	1504.6	138.0

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
8	9.980	33.843		0.49		4.43		
27	10.020	33.861	6.23	0.53		5.54		
50	10.720	34.060	6.10	1.21		10.79		
80	13.100	34.974	5.14	1.50		15.17		
105	13.740	35.279	4.77	2.07		15.60		
123	13.400	35.443	4.33	2.03		16.03		

SIGMA-T

21. 22. 23. 24. 25. 26. 27. 28.

SALINITY (PPT)

30. 31. 32. 33. 34. 35. 36. 37.

TEMPERATURE (DEG C)

8. 10. 12. 14. 16. 18. 20. 22.



C0 1905
516

SHIP CO CRUISE 19-05 STATION 517 POSITION 39 22.02 N 72 33.12 W
 LOCAL TIME 2224 DATE 76/ 1/19 WIND = 4knots DIR = 230 DEPTH= 138M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	DTH
0	9.902	33.916	26.122	188.1	0.000	1488.6	0.0
5	9.902	33.916	26.122	188.2	.009	1488.7	5.0
10	9.902	33.916	26.122	188.3	.019	1488.8	10.0
15	9.897	33.918	26.125	188.1	.028	1488.9	15.0
20	9.927	33.937	26.135	187.3	.038	1489.1	20.0
25	10.153	34.088	26.214	179.9	.047	1490.2	25.0
30	10.366	34.059	26.155	185.6	.056	1491.0	30.0
35	10.381	34.074	26.164	184.8	.065	1491.2	35.0
40	10.431	34.069	26.152	186.1	.074	1491.4	40.0
45	10.460	34.089	26.162	185.3	.084	1491.6	45.0
50	10.904	34.386	26.315	170.9	.093	1493.7	50.0
55	11.233	34.385	26.255	176.7	.101	1494.9	55.0
60	11.283	34.385	26.246	177.7	.110	1495.2	60.0
65	11.197	34.351	26.235	178.9	.119	1494.9	65.0
70	11.075	34.365	26.268	175.8	.128	1494.6	70.0
75	11.109	34.409	26.296	173.3	.137	1494.8	75.0
80	11.155	34.440	26.312	171.9	.145	1495.1	80.0
85	11.282	34.500	26.335	169.8	.154	1495.7	85.0
90	11.328	34.565	26.377	165.9	.162	1496.0	90.0
95	12.009	34.731	26.379	166.0	.171	1498.7	95.0
100	12.348	34.858	26.412	163.1	.179	1500.1	100.0
105	12.411	34.880	26.417	162.7	.187	1500.4	105.0
110	12.483	34.934	26.445	160.2	.195	1500.8	110.0
115	12.602	34.879	26.379	166.6	.203	1501.2	115.0
120	12.702	35.013	26.463	158.8	.211	1501.8	120.0
125	12.947	35.156	26.525	153.1	.219	1502.9	125.0
130	13.466	35.372	26.587	147.5	.227	1505.0	130.0
135	13.509	35.372	26.578	148.5	.234	1505.2	135.0
136	13.514	35.367	26.573	149.0	.236	1505.3	136.0

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
7	9.900	33.874	6.29	0.42		3.98		
28	10.450	34.038	6.17	0.43		4.36		
55	11.140	34.311	6.05	0.41		4.12		
82	11.920	34.654	5.80	0.41		4.36		
100	12.560	34.879	5.53	0.48		4.79		
125	13.290	35.181	4.88	0.62		5.80		

SIGMA-T

21. 22. 23. 24. 25. 26. 27. 28.

SALINITY (PPT)

30. 31. 32. 33. 34. 35. 36. 37.

TEMPERATURE (DEG C)

8. 10. 12. 14. 16. 18. 20. 22.



C0 1905
517 :

SHIP CO CRUISE 19-05 STATION 518 POSITION 39 29.69 N 72 24.90 W
 LOCAL TIME 26 DATE 76/ 1/20 WIND = 12knots DIR = 100 DEPTH= 155M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	DTH
0	10.242	33.997	26.128	187.5	0.000	1490.0	0.0
5	10.242	33.997	26.128	187.6	.009	1490.1	5.0
10	10.242	33.997	26.128	187.7	.019	1490.1	10.0
15	10.242	33.997	26.128	187.8	.028	1490.2	15.0
20	10.273	33.997	26.123	188.5	.038	1490.4	20.0
25	10.269	33.983	26.112	189.5	.047	1490.5	25.0
30	10.266	33.984	26.114	189.5	.056	1490.5	30.0
35	10.278	33.992	26.118	189.2	.066	1490.7	35.0
40	10.284	33.995	26.119	189.2	.075	1490.8	40.0
45	10.318	33.995	26.113	189.9	.085	1491.0	45.0
50	10.306	34.002	26.121	189.3	.094	1491.0	50.0
55	10.383	34.037	26.135	188.0	.104	1491.4	55.0
60	10.491	34.058	26.132	188.4	.113	1491.9	60.0
65	10.602	34.117	26.159	186.0	.123	1492.5	65.0
70	10.781	34.182	26.178	184.3	.132	1493.3	70.0
75	11.230	34.355	26.232	179.4	.141	1495.2	75.0
80	11.132	34.299	26.206	181.9	.150	1494.9	80.0
85	10.997	34.300	26.231	179.6	.159	1494.5	85.0
90	11.039	34.334	26.250	177.9	.168	1494.7	90.0
95	11.175	34.407	26.283	175.0	.177	1495.4	95.0
100	11.632	34.593	26.343	169.5	.185	1497.3	100.0
105	11.934	34.690	26.361	167.9	.194	1498.6	105.0
110	12.250	34.774	26.366	167.7	.202	1499.8	110.0
115	12.578	34.905	26.404	164.3	.210	1501.2	115.0
120	12.550	34.897	26.403	164.5	.219	1501.2	120.0
125	12.735	35.009	26.453	159.9	.227	1502.0	125.0
130	13.032	35.125	26.484	157.2	.235	1503.2	130.0
135	13.257	35.254	26.538	152.2	.242	1504.2	135.0
140	13.315	35.453	26.680	138.9	.250	1504.8	140.0
145	13.321	35.487	26.706	136.6	.257	1504.9	145.0
150	13.186	35.525	26.763	131.4	.263	1504.6	150.0
153	13.093	35.538	26.792	128.7	.267	1504.3	153.0

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
9	10.250	33.927	6.29	0.49		4.79		
28	10.330	33.933	6.14	0.48		4.46		
62	11.540	34.400	5.86	0.48		4.41		
107	12.660	34.872	5.34	0.52		4.94		
123	13.340	35.343	4.61	0.72		6.42		
135	13.110	35.449	5.60	0.57				

SIGMA-T

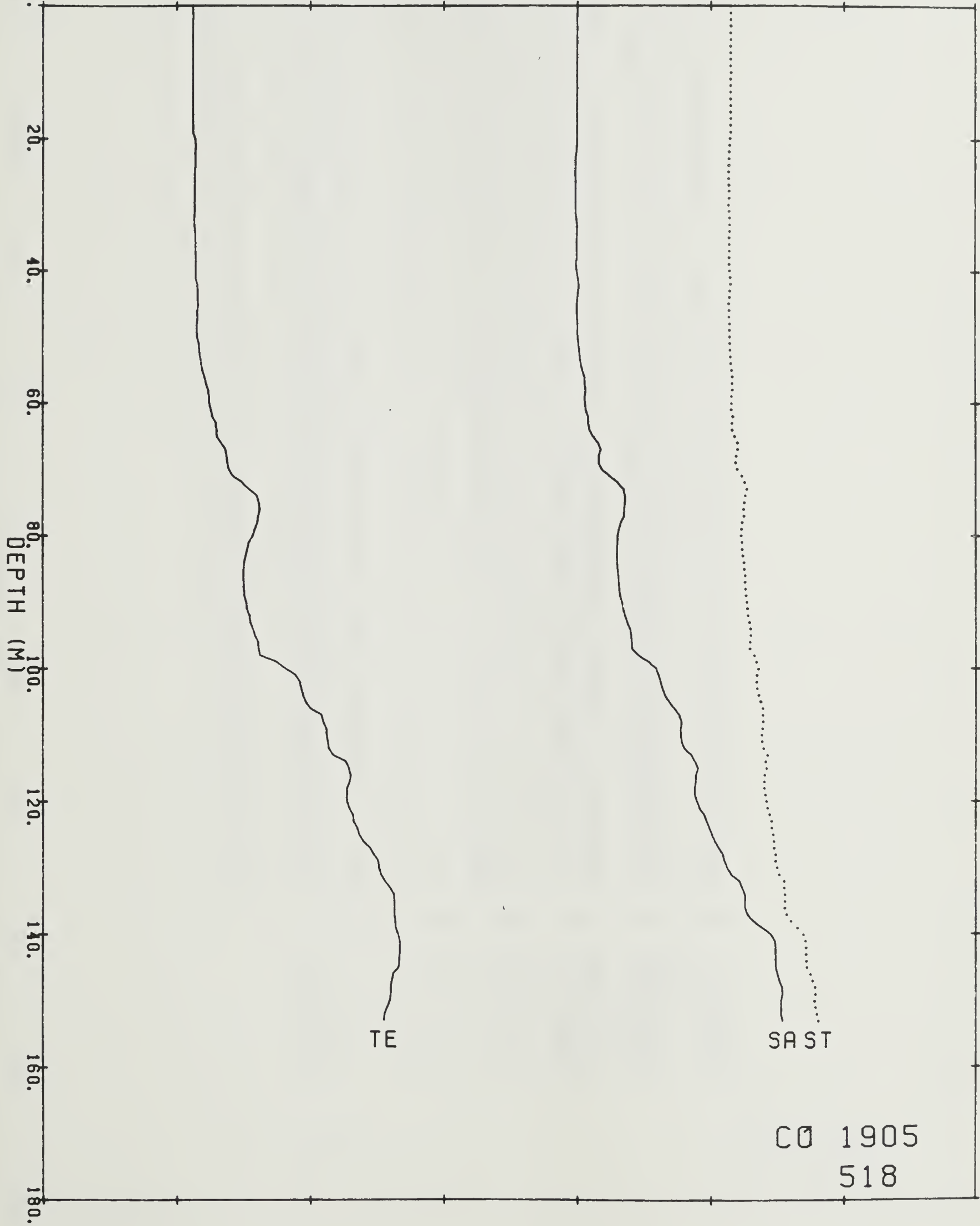
21. 22. 23. 24. 25. 26. 27. 28.

SALINITY (PPT)

30. 31. 32. 33. 34. 35. 36. 37.

TEMPERATURE (DEG C)

8. 10. 12. 14. 16. 18. 20. 22.



SHIP CO CRUISE 19-05 STATION 519 POSITION 39 31.67 N 72 23.22 W
 LOCAL TIME 243 DATE 76/ 1/20 WIND = 14knots DIR = 240 DEPTH= 646M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	DTH
0	10.156	33.853	26.030	196.8	0.000	1489.5	0.0
5	10.156	33.853	26.030	196.9	.010	1489.6	5.0
10	10.156	33.853	26.030	197.0	.020	1489.7	10.0
15	10.166	33.856	26.031	197.1	.030	1489.8	15.0
20	10.193	33.849	26.021	198.1	.039	1489.9	20.0
25	10.181	33.854	26.027	197.7	.049	1490.0	25.0
30	10.186	33.863	26.033	197.2	.059	1490.1	30.0
35	10.224	33.879	26.039	196.7	.069	1490.3	35.0
40	10.171	33.855	26.029	197.7	.079	1490.2	40.0
45	10.219	33.876	26.037	197.1	.089	1490.5	45.0
50	10.217	33.868	26.032	197.7	.099	1490.5	50.0
55	10.234	33.870	26.030	197.9	.109	1490.7	55.0
60	10.230	33.889	26.046	196.6	.118	1490.8	60.0
65	10.273	33.937	26.076	193.8	.128	1491.1	65.0
70	10.411	33.949	26.061	195.3	.138	1491.7	70.0
75	11.326	34.378	26.232	179.3	.147	1495.6	75.0
80	11.648	34.286	26.101	191.9	.157	1496.6	80.0
85	12.059	34.560	26.237	179.3	.166	1498.5	85.0
90	12.004	34.553	26.242	178.9	.175	1498.4	90.0
95	12.080	34.576	26.245	178.7	.184	1498.8	95.0
100	12.137	34.609	26.260	177.5	.193	1499.1	100.0
105	12.202	34.632	26.265	177.1	.201	1499.4	105.0
110	12.138	34.594	26.248	178.8	.210	1499.2	110.0
115	12.161	34.666	26.299	174.1	.219	1499.5	115.0
120	12.226	34.720	26.329	171.4	.228	1499.8	120.0
125	12.282	34.713	26.313	173.1	.236	1500.1	125.0
130	12.408	34.855	26.398	165.1	.245	1500.8	130.0
135	12.774	35.001	26.439	161.4	.253	1502.3	135.0
140	12.978	35.028	26.420	163.5	.261	1503.1	140.0
145	13.046	35.055	26.427	163.0	.269	1503.5	145.0
150	13.123	35.196	26.520	154.3	.277	1504.0	150.0
155	13.077	35.227	26.554	151.2	.285	1503.9	155.0
160	12.669	35.448	26.807	127.3	.292	1502.9	160.0
165	12.526	35.501	26.876	120.8	.298	1502.6	165.0
170	12.394	35.498	26.900	118.7	.304	1502.2	170.0
175	12.331	35.505	26.918	117.1	.310	1502.1	175.0
180	12.256	35.464	26.901	118.8	.316	1501.9	180.0
185	11.992	35.413	26.912	117.8	.322	1501.0	185.0
190	11.850	35.443	26.963	113.1	.328	1500.6	190.0
195	11.768	35.429	26.967	112.7	.333	1500.4	195.0
200	11.693	35.427	26.980	111.6	.339	1500.2	200.0
225	11.028	35.335	27.032	107.1	.366	1498.2	225.0
250	10.710	35.319	27.077	103.2	.392	1497.4	250.0
275	10.235	35.270	27.123	99.3	.418	1496.1	275.0
300	10.088	35.266	27.145	97.6	.442	1495.9	300.0
325	9.714	35.255	27.200	92.7	.466	1495.0	325.0
350	9.583	35.237	27.208	92.4	.489	1494.9	350.0
375	9.295	35.223	27.245	89.2	.512	1494.2	375.0
400	8.545	35.168	27.322	81.9	.533	1491.7	400.0
425	7.658	35.068	27.378	76.3	.553	1488.6	425.0
450	7.358	35.099	27.446	70.0	.571	1487.9	450.0
475	6.880	35.058	27.481	66.7	.588	1486.4	475.0
500	6.628	35.063	27.520	63.2	.605	1485.8	500.0
600	6.270	35.044	27.553	61.1	.667	1486.0	600.0
643	6.039	35.033	27.574	59.4	.693	1485.8	643.0

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
3	10.150	33.906	6.20	0.48		4.55		
25	10.280	33.926	6.19	0.49		4.60		
129	13.090	35.111	4.89	0.64		6.09		
271	10.190	35.316	3.37	1.44		13.51		
348	9.230	35.252	3.67	1.43		13.95		
501	6.540	35.083	4.64	1.41		15.24		
557	6.460	35.082	4.68	1.44		14.47		
620	6.070	35.060	4.86	1.39		14.04		

SIGMA-T

21. 22. 23. 24. 25. 26. 27. 28.

SALINITY (PPT)

30. 31. 32. 33. 34. 35. 36. 37.

TEMPERATURE (DEG C)

8. 10. 12. 14. 16. 18. 20. 22.



SHIP CO CRUISE 19-05 STATION 520 POSITION 39 34.50 N 72 21.11 W
 LOCAL TIME 643 DATE 76/ 1/20 WIND = 19knots DIR = 230 DEPTH= 118M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	DTH
0	10.106	33.969	26.129	187.4	0.000	1489.5	0.0
5	10.106	33.969	26.129	187.5	.009	1489.5	5.0
10	10.106	33.969	26.129	187.6	.019	1489.6	10.0
15	10.106	33.967	26.128	187.9	.028	1489.7	15.0
20	10.118	33.976	26.133	187.5	.038	1489.8	20.0
25	10.108	33.971	26.130	187.8	.047	1489.9	25.0
30	10.116	33.976	26.133	187.7	.056	1490.0	30.0
35	10.152	33.999	26.145	186.6	.066	1490.2	35.0
40	10.246	34.019	26.144	186.8	.075	1490.7	40.0
45	10.217	34.018	26.149	186.5	.084	1490.7	45.0
50	10.269	34.068	26.179	183.8	.094	1491.0	50.0
55	10.595	34.164	26.197	182.2	.103	1492.4	55.0
60	10.697	34.197	26.205	181.5	.112	1492.9	60.0
65	10.911	34.296	26.244	178.0	.121	1493.8	65.0
70	11.245	34.411	26.273	175.4	.130	1495.2	70.0
75	11.323	34.410	26.258	176.9	.138	1495.6	75.0
80	11.310	34.413	26.262	176.6	.147	1495.6	80.0
85	11.317	34.418	26.265	176.5	.156	1495.7	85.0
90	11.323	34.427	26.271	176.0	.165	1495.9	90.0
95	11.475	34.478	26.283	175.0	.174	1496.5	95.0
100	11.757	34.588	26.316	172.1	.182	1497.7	100.0
105	12.071	34.777	26.403	164.0	.191	1499.1	105.0
110	12.353	34.876	26.425	162.1	.199	1500.3	110.0
115	12.412	34.890	26.425	162.3	.207	1500.6	115.0
115	12.412	34.890	26.425	162.3	.207	1500.6	115.0

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
8	10.110	33.965	6.28	0.45		4.19		
13	10.120	33.974	6.22	0.48		4.65		
43	10.620	34.151	6.12	0.48		4.24		
58	11.330	34.397	6.03	0.45		4.10		
84	11.600	34.455	5.98	0.47		4.24		
100	12.400	34.862	5.47	0.56		4.78		

SIGMA-T

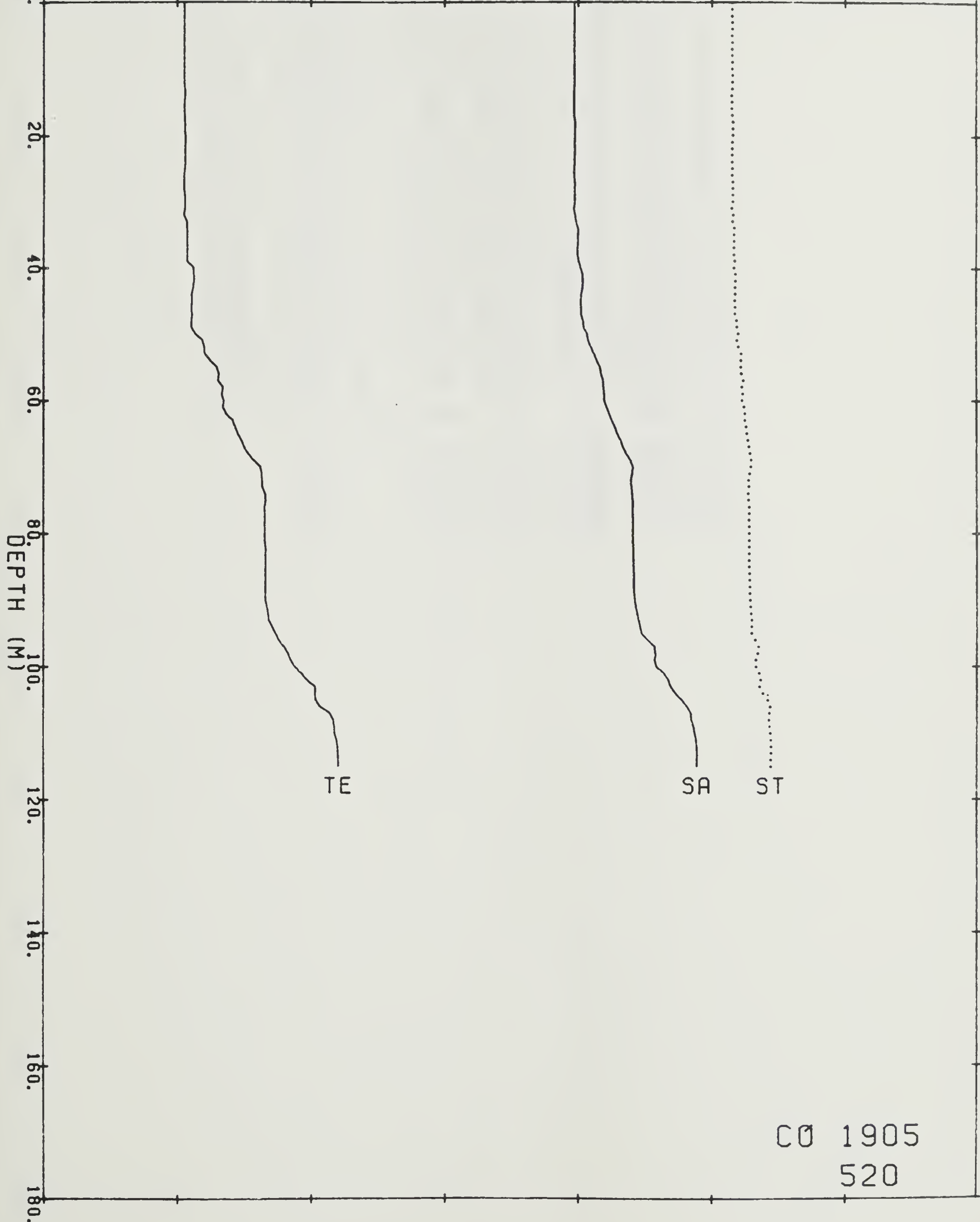
21. 22. 23. 24. 25. 26. 27. 28.

SALINITY (PPT)

30. 31. 32. 33. 34. 35. 36. 37.

TEMPERATURE (DEG C)

8. 10. 12. 14. 16. 18. 20. 22.



C0 1905
520

SHIP CO CRUISE 19-05 STATION 521 POSITION 39 45.17 N 72 11.87 W
 LOCAL TIME 1001 DATE 76/ 1/20 WIND = 25knots DIR = 210 DEPTH= 118M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	DTH
0	9.392	33.731	26.062	193.8	0.000	1486.5	0.0
5	9.392	33.731	26.062	193.9	.010	1486.6	5.0
10	9.392	33.731	26.062	194.0	.019	1486.7	10.0
15	9.393	33.727	26.059	194.4	.029	1486.8	15.0
20	9.366	33.722	26.059	194.4	.039	1486.7	20.0
25	9.404	33.736	26.064	194.1	.049	1487.0	25.0
30	9.389	33.723	26.056	194.9	.058	1487.0	30.0
35	9.452	33.767	26.080	192.7	.068	1487.4	35.0
40	9.703	33.816	26.077	193.1	.078	1488.4	40.0
45	10.089	33.973	26.135	187.8	.087	1490.1	45.0
50	11.074	34.472	26.351	167.5	.096	1494.4	50.0
55	11.705	34.456	26.223	179.8	.105	1496.7	55.0
60	11.988	34.611	26.290	173.6	.114	1497.9	60.0
65	12.660	34.978	26.444	159.2	.122	1500.8	65.0
70	13.683	35.172	26.387	164.9	.130	1504.5	70.0
75	14.221	35.332	26.398	164.1	.138	1506.5	75.0
80	14.278	35.333	26.386	165.3	.146	1506.8	80.0
85	14.266	35.385	26.429	161.4	.155	1506.9	85.0
90	14.298	35.436	26.462	158.4	.163	1507.1	90.0
95	14.283	35.456	26.480	156.8	.170	1507.2	95.0
100	14.204	35.454	26.495	155.5	.178	1507.0	100.0
105	14.185	35.467	26.510	154.3	.186	1507.1	105.0
110	14.177	35.469	26.513	154.1	.194	1507.1	110.0
115	14.173	35.470	26.514	154.1	.201	1507.2	115.0
115	14.173	35.470	26.514	154.1	.201	1507.2	115.0

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
10	9.400	33.854	6.22	0.51		4.19		
39	11.720	34.407	5.84	0.47		3.78		
60	14.240	35.253	5.03	0.50		4.33		
73	14.310	35.424	4.56	0.63		5.97		
86	14.210	35.450	4.43	0.68		5.92		
102	14.200	35.455	4.37	0.71		7.06		

SIGMA-T

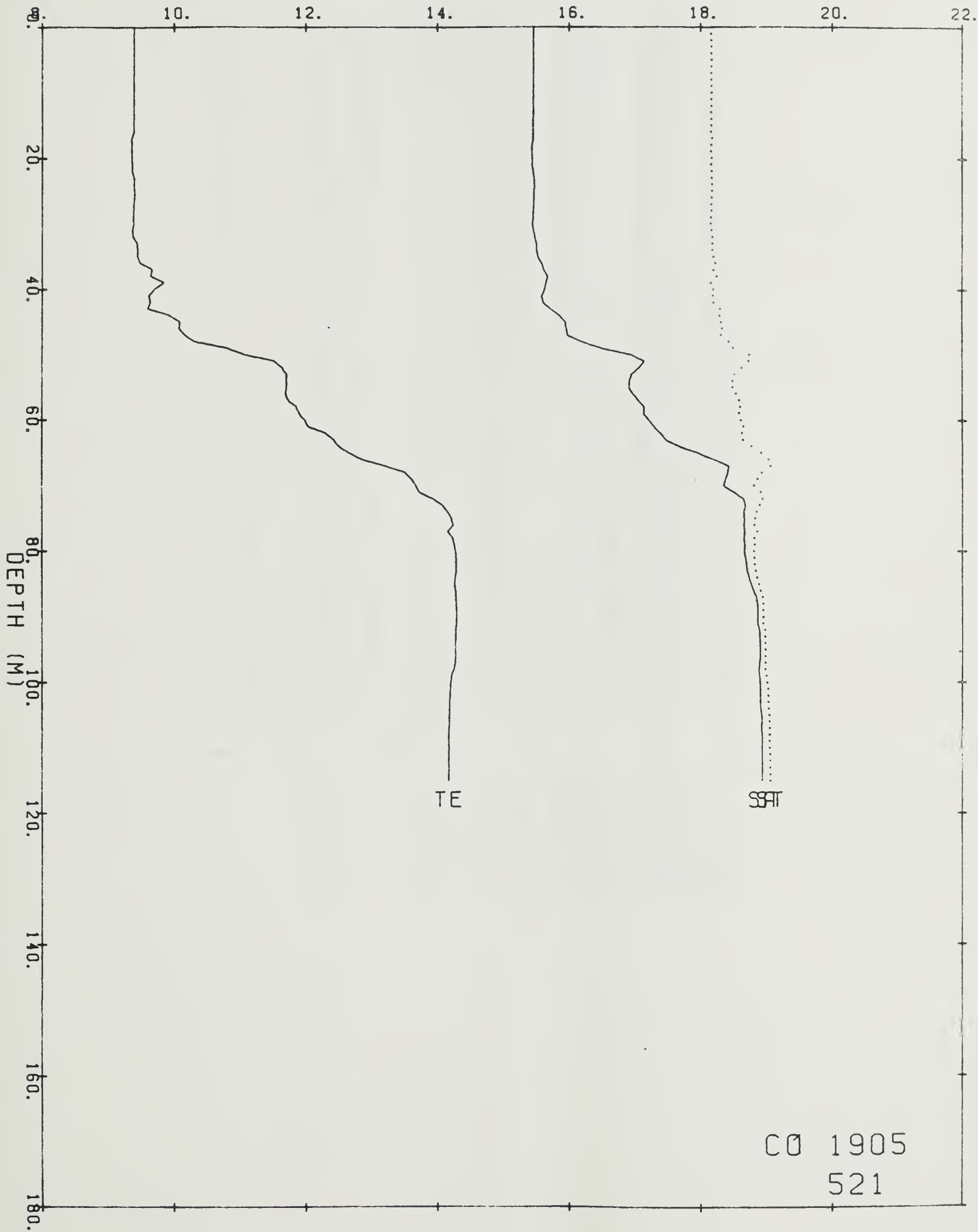
21. 22. 23. 24. 25. 26. 27. 28.

SALINITY (PPT)

30. 31. 32. 33. 34. 35. 36. 37.

TEMPERATURE (DEG C)

8. 10. 12. 14. 16. 18. 20. 22.

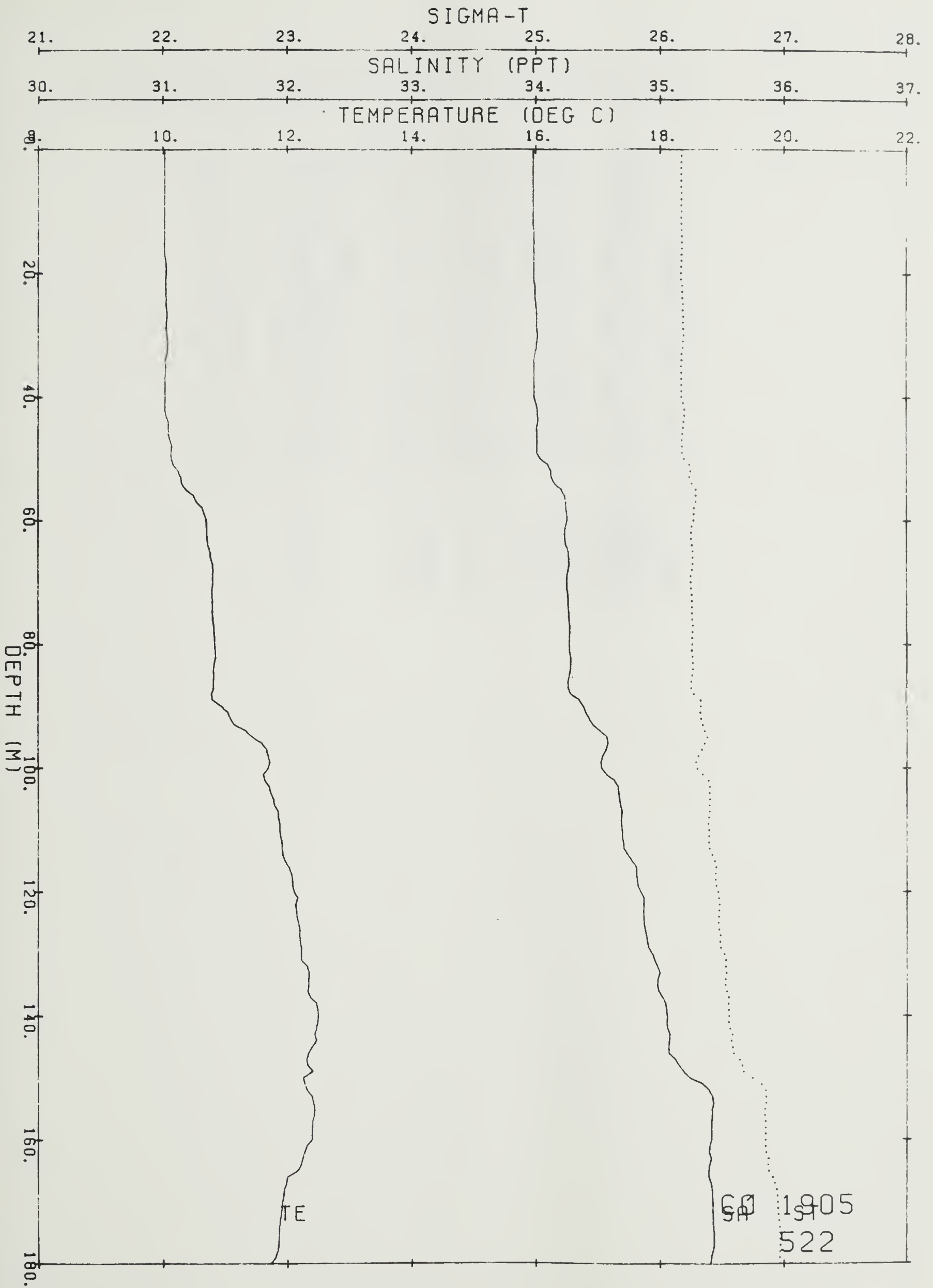


C0 1905
521

SHIP CO CRUISE 19-05 STATION 522 POSITION 39 39.59 N 72 26.40 W
 LOCAL TIME. 1508 DATE 76/ 1/20 WIND = 20knots DIR = 250 DEPTH= 279M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	DTH
0	10.029	33.981	26.152	185.3	0.000	1489.2	0.0
5	10.029	33.981	26.152	185.4	.009	1489.3	5.0
10	10.029	33.981	26.152	185.5	.019	1489.4	10.0
15	10.028	33.987	26.157	185.1	.028	1489.4	15.0
20	10.061	33.984	26.149	186.0	.037	1489.6	20.0
25	10.054	34.003	26.165	184.6	.046	1489.7	25.0
30	10.073	34.015	26.171	184.1	.056	1489.9	30.0
35	10.049	33.984	26.151	186.1	.065	1489.8	35.0
40	10.038	33.988	26.156	185.7	.074	1489.9	40.0
45	10.094	34.008	26.162	185.2	.083	1490.2	45.0
50	10.144	34.038	26.177	183.9	.093	1490.5	50.0
55	10.374	34.205	26.267	175.5	.102	1491.6	55.0
60	10.706	34.252	26.246	177.6	.110	1493.0	60.0
65	10.765	34.261	26.242	178.1	.119	1493.3	65.0
70	10.803	34.247	26.225	179.9	.128	1493.5	70.0
75	10.807	34.265	26.238	178.7	.137	1493.6	75.0
80	10.840	34.269	26.235	179.1	.146	1493.8	80.0
85	10.820	34.269	26.239	178.9	.155	1493.8	85.0
90	10.939	34.383	26.306	172.6	.164	1494.4	90.0
95	11.442	34.574	26.363	167.4	.172	1496.5	95.0
100	11.693	34.531	26.283	175.2	.181	1497.4	100.0
105	11.784	34.676	26.379	166.2	.190	1498.0	105.0
110	11.885	34.697	26.376	166.6	.198	1498.5	110.0
115	11.970	34.776	26.421	162.5	.206	1499.0	115.0
120	12.117	34.846	26.448	160.1	.214	1499.6	120.0
125	12.185	34.873	26.455	159.5	.222	1500.0	125.0
130	12.226	34.941	26.500	155.4	.230	1500.3	130.0
135	12.342	34.978	26.507	155.0	.238	1500.8	135.0
140	12.498	35.058	26.538	152.2	.245	1501.5	140.0
145	12.395	35.070	26.568	149.5	.253	1501.3	145.0
150	12.251	35.241	26.728	134.3	.260	1501.1	150.0
155	12.440	35.420	26.830	124.9	.267	1502.0	155.0
160	12.394	35.415	26.836	124.5	.273	1501.9	160.0
165	12.159	35.391	26.863	122.0	.279	1501.2	165.0
170	11.918	35.426	26.936	115.1	.285	1500.5	170.0
175	11.865	35.434	26.953	113.6	.291	1500.4	175.0
180	11.730	35.407	26.957	113.3	.296	1500.0	180.0
185	11.568	35.372	26.961	113.0	.302	1499.5	185.0
190	11.427	35.403	27.011	108.3	.307	1499.1	190.0
195	11.280	35.380	27.021	107.5	.313	1498.6	195.0
200	11.224	35.397	27.044	105.4	.318	1498.5	200.0
225	10.806	35.335	27.072	103.2	.344	1497.4	225.0
250	10.568	35.328	27.109	100.1	.370	1496.9	250.0
272	9.842	35.271	27.191	92.5	.391	1494.6	272.0

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
14	10.060	34.033	6.23	0.47		4.24		
31	10.180	34.058	6.20	0.50		4.15		
67	10.870	34.293	6.06	0.46		3.92		
103	11.940	34.759	5.42	0.56		5.47		
142	12.410	35.460	3.97	0.98		8.38		
188	11.320	35.439	3.73	1.19		10.52		
209	10.810	35.392	3.65	1.32		11.75		
246	9.980	35.326	3.74	1.42		13.21		

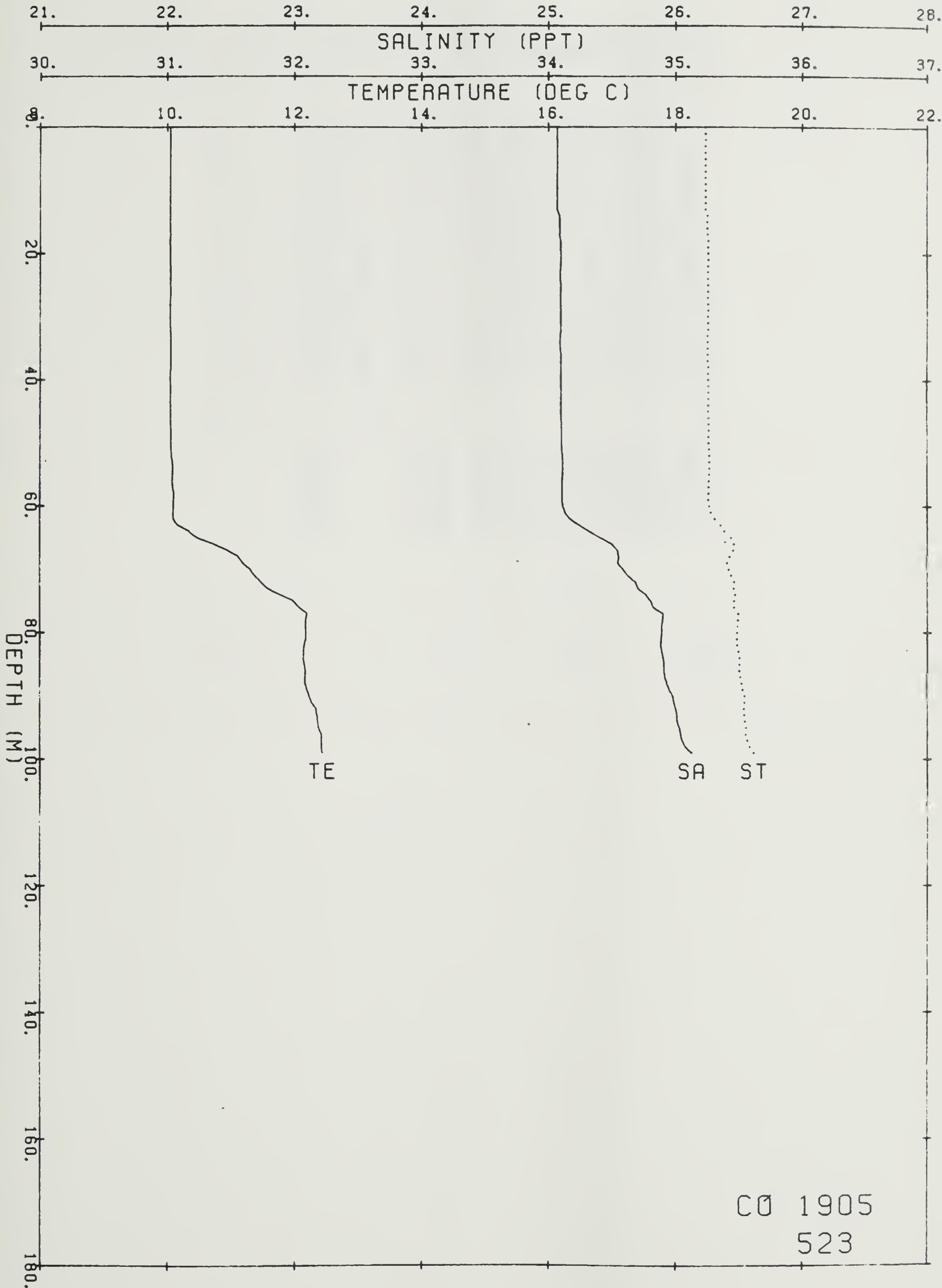


SHIP CO CRUISE 19-05 STATION 523 POSITION 39 41.10 N 72 28.61 W
 LOCAL TIME 1733 DATE 76/ 1/20 WIND = 10knots DIR = 270 DEPTH= 101M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	DTH
0	10.051	34.071	26.218	179.0	0.000	1489.4	0.0
5	10.051	34.071	26.218	179.1	.009	1489.5	5.0
10	10.051	34.071	26.218	179.2	.018	1489.5	10.0
15	10.050	34.089	26.232	177.9	.027	1489.6	15.0
20	10.049	34.100	26.241	177.2	.036	1489.7	20.0
25	10.053	34.099	26.240	177.4	.045	1489.8	25.0
30	10.052	34.100	26.241	177.4	.053	1489.9	30.0
35	10.059	34.096	26.236	178.0	.062	1490.0	35.0
40	10.049	34.100	26.241	177.6	.071	1490.1	40.0
45	10.054	34.101	26.241	177.7	.080	1490.2	45.0
50	10.061	34.106	26.244	177.6	.089	1490.3	50.0
55	10.085	34.112	26.245	177.6	.098	1490.5	55.0
60	10.101	34.117	26.246	177.6	.107	1490.6	60.0
65	10.462	34.418	26.418	161.4	.115	1492.4	65.0
70	11.306	34.590	26.401	163.2	.123	1495.7	70.0
75	11.983	34.808	26.444	159.4	.131	1498.4	75.0
80	12.186	34.892	26.470	157.1	.139	1499.3	80.0
85	12.161	34.913	26.491	155.2	.147	1499.3	85.0
90	12.234	34.983	26.531	151.5	.155	1499.7	90.0
95	12.383	35.035	26.543	150.6	.162	1500.4	95.0
100	12.445	35.133	26.607	144.6	.168	1500.8	99.0

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
6	10.060	34.078	5.94	0.38		4.05		
21	10.080	34.099	6.24	0.41		4.01		
41	10.090	34.096		0.42		4.19		
60	11.930	34.745	5.38	0.53		5.19		
67	12.170	34.877	5.15	0.58		6.29		
85	12.470	35.028	4.88	0.67		6.65		

SIGMA-T



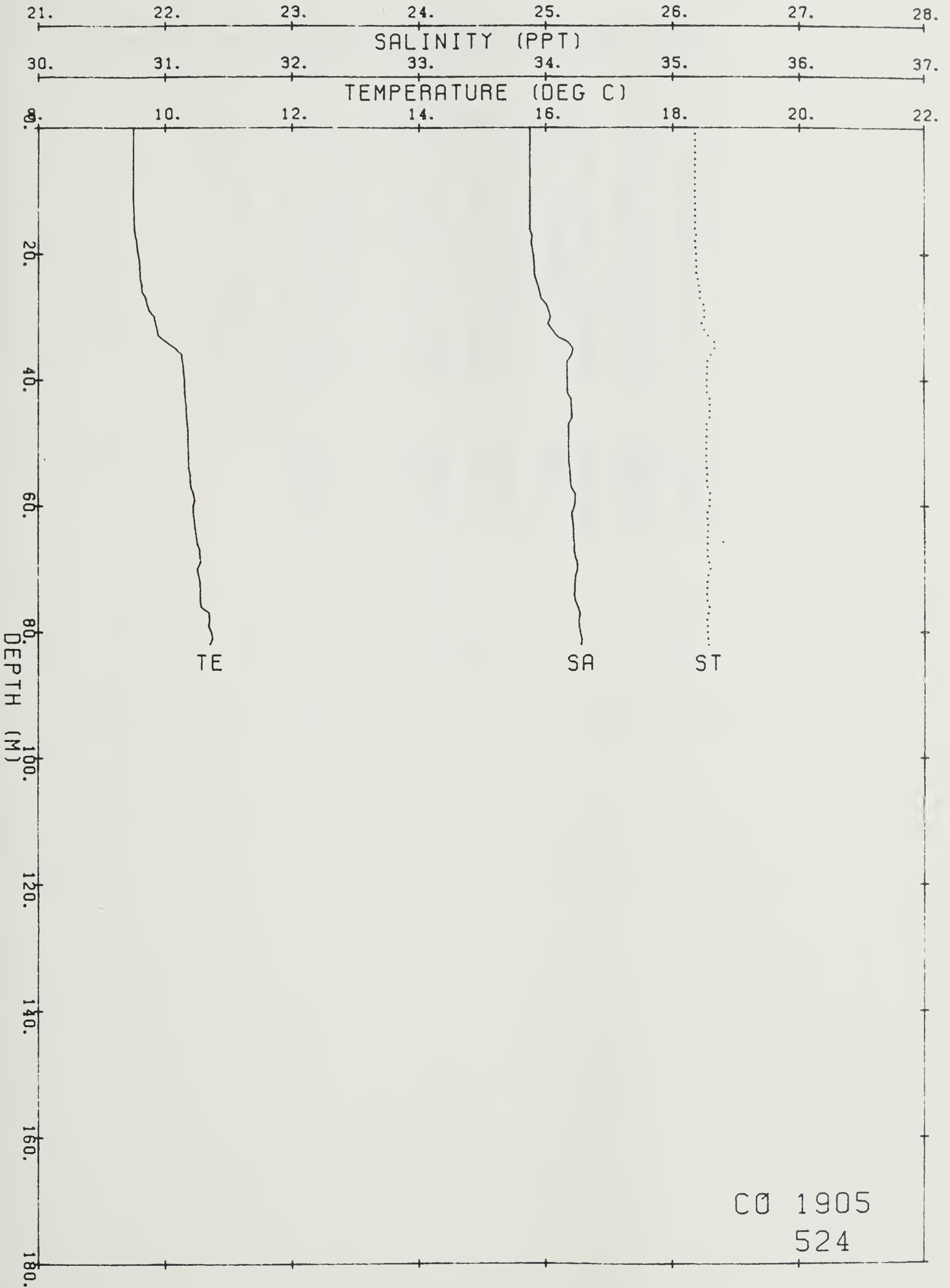
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523

SHIP CO CRUISE 19-05 STATION 524 POSITION 39 40.38 N 72 42.18 W
 LOCAL TIME 1955 DATE 76/ 1/21 WIND = 7knots DIR = 260 DEPTH= 85M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	DTH
0	9.502	33.877	26.158	184.7	0.000	1487.1	0.0
5	9.502	33.877	26.158	184.7	.009	1487.2	5.0
10	9.502	33.877	26.158	184.8	.018	1487.3	10.0
15	9.514	33.878	26.157	185.1	.028	1487.4	15.0
20	9.578	33.905	26.168	184.1	.037	1487.8	20.0
25	9.637	33.942	26.187	182.4	.046	1488.1	25.0
30	9.835	34.040	26.230	178.4	.055	1489.0	30.0
35	10.165	34.217	26.313	170.7	.064	1490.6	35.0
40	10.307	34.170	26.252	176.6	.073	1491.1	40.0
45	10.339	34.204	26.273	174.7	.081	1491.3	45.0
50	10.367	34.177	26.247	177.3	.090	1491.5	50.0
55	10.398	34.193	26.254	176.7	.099	1491.7	55.0
60	10.447	34.226	26.271	175.2	.108	1492.0	60.0
65	10.498	34.219	26.257	176.7	.117	1492.2	65.0
70	10.508	34.251	26.280	174.6	.125	1492.4	70.0
75	10.562	34.234	26.257	176.9	.134	1492.7	75.0
80	10.735	34.274	26.258	176.9	.143	1493.4	80.0
82	10.712	34.281	26.268	176.1	.147	1493.4	82.0

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
0	9.510	33.859	6.39	0.45		4.83		
15	9.770	33.943	6.28	0.46		5.01		
29	10.350	34.146	6.13	0.46		4.78		
45	10.470	34.179	6.07	0.47		4.88		
54	10.560	34.194	6.08	0.46		5.06		
68	10.670	34.230	6.00	0.46		5.19		

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524

SHIP CO CRUISE 19-05 STATION 525 POSITION 39 46.92 N 72 58.80 W
 LOCAL TIME 2249 DATE 76/ 1/21 WIND = 10knots DIR = 270 DEPTH= 85M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	DTH
0	7.214	32.988	25.805	218.2	0.000	1477.3	0.0
5	7.214	32.988	25.805	218.3	.011	1477.3	5.0
10	7.214	32.988	25.805	218.3	.022	1477.4	10.0
15	7.212	32.994	25.810	217.9	.033	1477.5	15.0
20	7.234	32.997	25.810	218.1	.044	1477.7	20.0
25	7.237	33.009	25.819	217.3	.055	1477.8	25.0
30	7.275	33.024	25.825	216.7	.065	1478.0	30.0
35	7.292	33.022	25.821	217.2	.076	1478.2	35.0
40	7.338	33.057	25.842	215.2	.087	1478.5	40.0
45	7.414	33.069	25.841	215.4	.098	1478.9	45.0
50	7.445	33.072	25.839	215.7	.109	1479.1	50.0
55	7.447	33.075	25.841	215.5	.119	1479.2	55.0
60	7.450	33.077	25.843	215.5	.130	1479.3	60.0
65	7.476	33.088	25.848	215.1	.141	1479.5	65.0
70	7.604	33.154	25.881	212.0	.152	1480.1	70.0
75	7.743	33.210	25.906	209.8	.162	1480.8	75.0
80	8.012	33.299	25.937	207.0	.173	1482.1	80.0
82	8.046	33.307	25.938	206.9	.177	1482.2	82.0

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
6	7.220	32.963	6.80	0.53		4.69		
15	7.280	32.966	6.83	0.54		4.92		
33	7.450	33.031	6.73	0.54		5.01		
52	7.490	33.043	6.75	0.55		4.88		
60	7.870	33.112	6.68	0.56		5.19		
69	8.100	33.246	6.60	0.55		5.42		

SIGMA-T

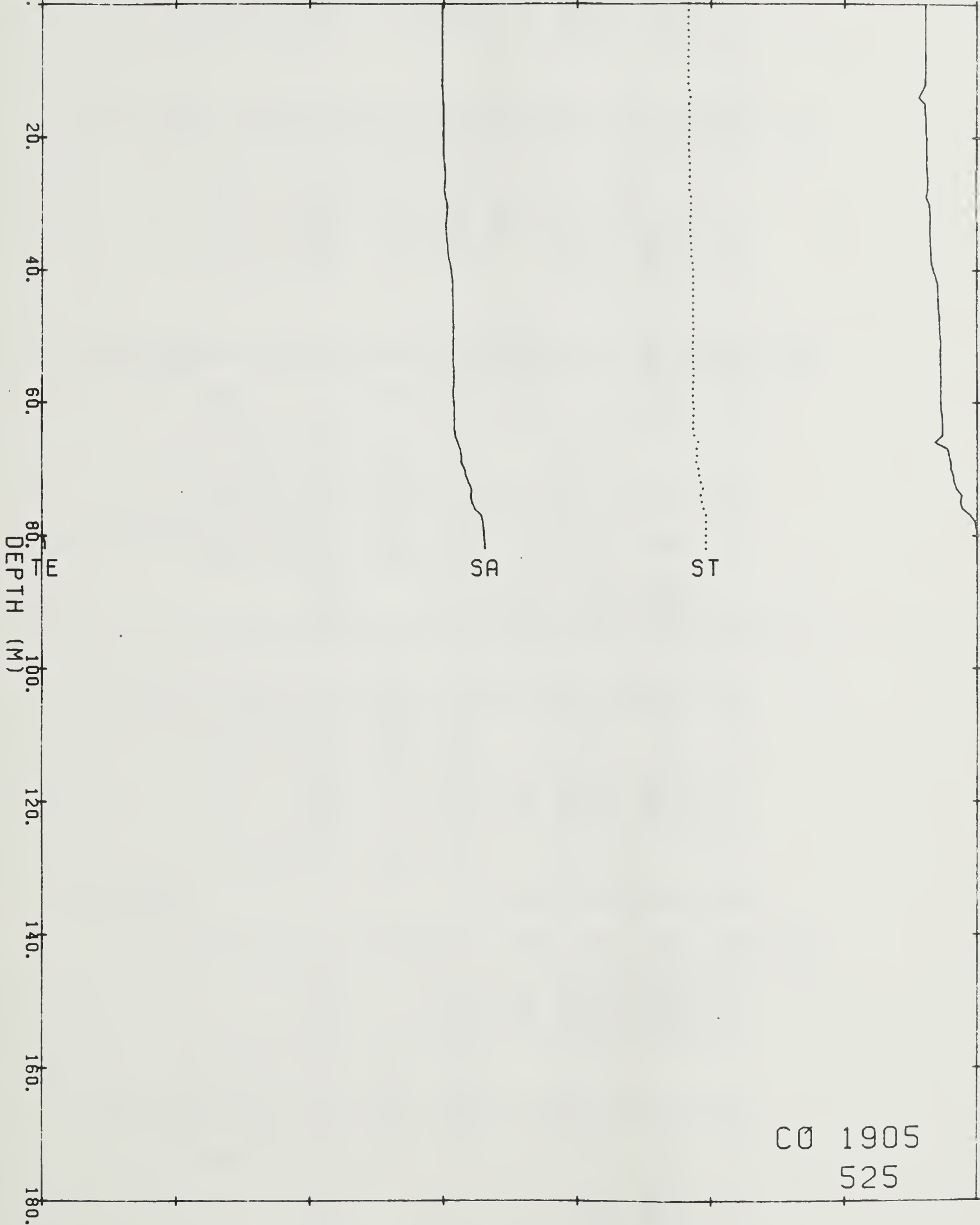
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525

SHIP CD CRUISE 19-05 STATIDN 445 POSITIDN 40 33.67 N 73 17.33 W
LDCAL TIME 2115 DATE 76/ 1/ 5 DEPTH= 37M

DTH	TEM	SAL	DXG	PHDS	NITR	SIL	ND2	AMM
0	7.490	32.249	6.85	0.91		7.14		
6	7.500	32.259		0.87		7.21		
11	7.510	32.258	6.90	0.89		7.67		
22	7.520	32.267						

SHIP CD CRUISE 19-05 STATIDN 446 POSITIDN 40 44.33 N 72 78.83 W
LOCAL TIME 114 DATE 76/ 1/ 5 DEPTH= 44M

DTH	TEM	SAL	DXG	PHOS	NITR	SIL	ND2	AMM
0	7.610	32.170	6.79	0.71		7.16		
5	7.630	32.170	6.76	0.70		7.25		
12	7.630	32.164	6.76	0.70		7.00		
20	7.640	32.164	6.72	0.69		6.95		
27	7.630	32.163						
38	7.600	32.160						

SHIP CD CRUISE 19-05 STATION 447 POSITION 40 59.17 N 72 20.83 W
LDCAL TIME 823 DATE 76/ 1/ 5 DEPTH= 51M

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	ND2	AMM
32	7.840	32.270	6.73	0.71		7.09		

SHIP CD CRUISE 19-05 STATION 448 PDSITION 40 70.67 N 71 77.67 W
LDCAL TIME 1232 DATE 76/ 1/ 5 DEPTH= 55M

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	ND2	AMM
0	8.220	32.550	6.56	0.68		6.53		
13	8.260	32.444	6.76	0.70		6.63		
17	8.260	32.445	6.67	0.71		7.85		
54	8.810	32.695	6.50	0.68		5.70		

SHIP CD CRUISE 19-05 STATION 449 PDSITIDN 40 48.33 N 71 61.67 W
LDCAL TIME 1505 DATE 76/ 1/ 5 DEPTH= 70M

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
0	8.770	32.790	6.52	0.73		5.68		
25	8.760	32.778	6.45	0.67		5.42		
32	8.810	32.789	6.42	0.65		5.42		
67	10.100	33.213	6.08	0.67		6.76		

SHIP CD CRUISE 19-05 STATION 451 PDSITION 40 38.67 N 71 57.17 W
LOCAL TIME 2307 DATE 76/ 1/ 5 DEPTH= 81M

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
0	9.790	33.338	6.30	0.57		4.76		
33	9.810	33.332	6.28	0.56		4.80		
44	9.830	33.333	6.29	0.55		4.78		
59	10.720	33.478	6.19	0.54		5.70		
47	10.540	34.022	5.75	0.54		5.61		

SHIP CD CRUISE 19-05 STATION 452 POSITION 40 47.17 N 71 18.67 W
LOCAL TIME 236 DATE 76/ 1/ 6 DEPTH= 77M

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
0	9.080	32.976	6.39	0.59		6.05		
34	9.160	32.982	6.47	0.59		5.28		
52	9.130	33.001	6.39	0.59		5.35		
68	10.900	33.510	6.39	0.56		5.90		

SHIP CO CRUISE 19-05 STATION 453 POSITION 40 44.67 N 70 99.00 W
LOCAL TIME 610 DATE 76/ 1/ 6 DEPTH= 82M

DTH	TEM	SAL	DXG	PHOS	NITR	SIL	NO2	AMM
0	8.580	32.690	6.06	0.61		6.05		
36	8.600	32.681	6.44	0.59		5.32		
66	8.620	32.683	6.43	0.60		5.35		
80	9.750	33.171						

SHIP CO CRUISE 19-05 STATION 454 POSITION 40 43.17 N 70 80.17 W
LOCAL TIME 955 DATE 76/ 1/ 6 DEPTH= 84M

DTH	TEM	SAL	DXG	PHOS	NITR	SIL	NO2	AMM
0	8.530	32.719	6.41	0.59		5.51		
36	8.550	32.720	6.06	0.60		5.51		
52	8.550	32.721	6.50	0.59		5.60		
60	11.320	33.605	5.51	0.50		6.43		
70	11.630	33.724	5.83	0.49		6.77		
74	11.760	33.753	5.82	0.56		8.06		

SHIP CO CRUISE 19-05 STATION 455 POSITION 40 47.17 N 70 46.17 W
LOCAL TIME 1358 DATE 76/ 1/ 6 DEPTH= 73M

DTH	TEM	SAL	DXG	PHOS	NITR	SIL	NO2	AMM
0	7.390	32.488						
13	7.430	32.498	6.70	0.66		5.08		
20	7.440	32.503	6.54	0.68		5.06		
38	7.470	32.496	6.70	0.70		5.06		
41	7.510	32.657						
48	7.620	32.536	6.22	0.70		5.01		
48	7.600	32.537	5.91	0.72		5.17		
52	7.800	32.559	6.11	0.70		5.15		
65	8.830	32.846	6.34	0.68		6.15		

SHIP CO CRUISE 19-05 STATION 456 POSITION 40 46.17 N 70 14.17 W
LOCAL TIME 1734 DATE 76/ 1/ 6 DEPTH= 73M

DTH	TEM	SAL	DXG	PHOS	NITR	SIL	NO2	AMM
0	7.980	32.487	5.95	0.68		5.12		
6	8.000	32.486	6.63	0.69		5.12		
13	8.010	32.490	6.67	0.70		5.10		
20	8.010	32.492	6.65	0.72		5.17		
32	8.010	32.483	6.64	0.69		5.15		
45	8.010	32.468	6.72	0.70		5.19		
49	7.920	32.479	6.69	0.75		5.49		
49	7.950	32.468	5.43	0.74		5.41		
52	7.910	32.477	6.70	0.74		5.21		
56	7.850	32.468	6.64	0.73		5.25		
65	7.780	32.455	6.74	0.72		5.28		

SHIP CO CRUISE 19-05 STATION 457 POSITION 40 48.83 N 69 54.67 W
LOCAL TIME 2208 DATE 76/ 1/ 6 DEPTH= 66M

DTH	TEM	SAL	DXG	PHOS	NITR	SIL	NO2	AMM
0	7.300	32.457	6.52	0.71		6.31		
6	7.290	32.458	6.47	0.71		6.35		
14	7.300	32.468	6.71	0.73		6.42		
20	7.260	32.458	6.64	0.72		6.31		
28	7.250	32.450	6.42	0.72		6.33		
43	7.250	32.451	6.69	0.73		6.34		
50	7.100	32.445	6.70	0.74		6.52		
58	7.110	32.453	6.78	0.74		6.42		

SHIP CO CRUISE 19-05 STATION 477 POSITION 38 76.17 N 71 93.33 W
LOCAL TIME 1704 OATE 76/ 1/13 DEPTH=2657M

OTH	TEM	SAL	DXG	PHOS	NITR	SIL	NO2	AMM
21	13.430	35.347	5.65	0.40		3.73		
116	14.240	35.733	5.48	0.66		5.06		
247	9.970	35.280	3.34	1.49		12.81		
534	5.370	35.020	5.13	1.33		12.90		
815	4.400	34.987	5.90	1.20		11.73		
1076	4.050	34.974	6.11	1.19		11.95		
1349	3.860	34.918	6.17	1.20		12.38		
2623	2.450	34.925	6.40	1.25		20.30		
1723	3.640	34.970	6.17	1.21		13.77		
1965	3.460	34.968	6.20	1.21		15.54		
2288	3.110	34.954	6.22	1.23		17.06		

SHIP CO CRUISE 19-05 STATION 481 POSITION 39 39.17 N 73 74.17 W
LOCAL TIME 2316 OATE 76/ 1/14 DEPTH= 37M

OTH	TEM	SAL	DXG	PHOS	NITR	SIL	NO2	AMM
0	6.920	32.755	6.93	0.53		4.82		
4	6.940	32.748	6.90	0.55		4.73		
10	6.920	32.748	6.95	0.55		4.77		
16	6.920	32.758	6.92	0.56		4.82		
19	6.910	32.764	6.90	0.56		4.82		

SHIP CO CRUISE 19-05 STATION 482 POSITION 39 52.33 N 73 44.67 W
LOCAL TIME 258 OATE 76/ 1/15 DEPTH= 42M

OTH	TEM	SAL	DXG	PHOS	NITR	SIL	NO2	AMM
4	7.150	32.710	6.95	0.51		4.84		
9	7.160	32.716	6.93	0.53		4.79		
15	7.170	32.713	6.94	0.53		4.84		
21	7.170	32.713	7.06	0.53		4.79		
30	7.180	32.724	6.96	0.52		4.79		

SHIP CO CRUISE 19-05 STATION 483 POSITION 39 65.67 N 73 70.67 W
LOCAL TIME 708 OATE 76/ 1/15 DEPTH= 31M

OTH	TEM	SAL	DXG	PHOS	NITR	SIL	NO2	AMM
3	5.970	32.415	7.33	0.53		2.95		
4	5.980	32.409	7.25	0.58		2.90		
10	5.990	32.407	7.36	0.55		2.86		
24	6.000	32.397	7.39	0.55		2.76		
25	6.020	32.411	7.32	0.57		2.81		

SHIP CO CRUISE 19-05 STATION 484 POSITION 39 75.17 N 73 37.83 W
LOCAL TIME 900 OATE 76/ 1/15 DEPTH= 42M

OTH	TEM	SAL	DXG	PHOS	NITR	SIL	NO2	AMM
2	7.060	32.736	7.12	0.55		4.52		
6	7.070	32.730	7.08	0.57		4.61		
14	7.060	32.734	7.07	0.55		4.61		

SHIP CD CRUISE 19-05 STATION 485 POSITION 39 90.17 N 73 42.17 W
LOCAL TIME 1131 DATE 76/ 1/15 DEPTH= 44M

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
0	6.570	32.462	7.16	0.68		5.67		
7	6.650	32.465	7.16	0.68		5.44		
15	6.760	32.553	7.07	0.67		5.27		
25	6.920	32.634	7.03	0.67		5.04		
36	6.950	32.641	7.04	0.66		5.04		

SHIP CD CRUISE 19-05 STATION 486 POSITION 39 91.17 N 73 64.17 W
LOCAL TIME 1340 DATE 76/ 1/15 DEPTH= 29M

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
0	6.270	32.395	6.92	0.69		5.31		
5	6.270	32.392	7.07	0.70		5.27		
12	6.270	32.399	7.34	0.70		5.27		
17	6.270	32.387	6.73	0.70		5.27		
24	6.270	32.388	6.93	0.70		5.22		

SHIP CD CRUISE 19-05 STATION 487 POSITION 40 6.17 N 73 66.67 W
LOCAL TIME 1621 DATE 76/ 1/15 DEPTH= 28M

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
0	5.980	32.051	7.09	0.84		5.44		
8	6.010	32.064	7.06	0.84		6.07		
17	6.020	32.059	7.08	0.84		6.16		
26	6.020	32.058	7.13	0.84		6.16		
29	6.030	32.069	7.20	0.84		6.20		

SHIP CD CRUISE 19-05 STATION 488 POSITION 40 19.17 N 73 72.17 W
LOCAL TIME 1836 DATE 76/ 1/15 DEPTH= 49M

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
1	6.080	32.071	7.11	0.68		6.79		
9	6.140	32.079	7.08	0.76		6.93		
20	6.250	32.134	7.01	0.78		7.02		
31	6.820	32.393	6.95	0.74		6.88		
42	6.840	32.421	6.93	0.74		6.84		

SHIP CD CRUISE 19-05 STATION 489 POSITION 40 22.67 N 73 49.17 W
LOCAL TIME 2132 DATE 76/ 1/15 DEPTH= 37M

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
1	5.590	32.045	7.13	0.84		6.84		
7	5.610	32.026	7.04	0.84		6.98		
16	5.630	32.031	7.07	0.86		6.93		
26	6.550	32.323	7.03	0.82		6.93		
26	6.600	32.065	6.82	0.78		7.40		

SHIP CO CRUISE 19-05 STATION 490 POSITION 40 5.33 N 73 46.33 W
LOCAL TIME 2315 DATE 76/ 1/15 DEPTH= 82M

OTH	TEM	SAL	DXG	PHOS	NITR	SIL	NO2	AMM
2	7.570	32.743	6.82	0.60		6.05		
13	7.600	32.740	6.79	0.59		5.86		
29	7.620	32.771	6.76	0.59		6.19		
42	7.620	32.749	6.78	0.59		6.00		
58	7.620	32.768	6.78	0.58		5.95		
74	7.640	32.760	6.77	0.61		6.19		

SHIP CO CRUISE 19-05 STATION 491 POSITION 40 13.33 N 73 17.17 W
LOCAL TIME 300 DATE 76/ 1/16 DEPTH= 46M

DTH	TEM	SAL	DXG	PHOS	NITR	SIL	NO2	AMM
0	6.820	32.512	6.96	0.59		5.44		
3	6.860	32.512						
26	6.850	32.528	6.99	0.59		5.58		
40	6.850	32.520	6.92	0.59		5.63		
41	6.850	32.539	6.99	0.60		5.49		

SHIP CO CRUISE 19-05 STATION 492 POSITION 39 89.67 N 73 21.67 W
LOCAL TIME 503 DATE 76/ 1/16 DEPTH= 77M

OTH	TEM	SAL	DXG	PHOS	NITR	SIL	NO2	AMM
2	7.640	32.863	6.71	0.60		5.62		
10	7.690	32.868	6.74	0.59		5.98		
17	7.700	32.866	6.83	0.60		5.53		
41	7.690	32.866	6.73	0.57		5.57		
63	8.210	33.033	6.81	0.57		6.07		
69	8.380	33.079	6.53	0.58		6.12		

SHIP CO CRUISE 19-05 STATION 493 POSITION 39 72.67 N 73 22.67 W
LOCAL TIME 841 DATE 76/ 1/16 DEPTH= 46M

DTH	TEM	SAL	DXG	PHOS	NITR	SIL	NO2	AMM
0	7.170	32.814	6.72	0.55		5.34		
17	7.180	32.824	6.84	0.55		5.34		
26	7.200	32.830		0.55		5.25		
35	7.220	32.831	6.96	0.55		5.34		
38	7.250	32.838	6.94	0.55		5.30		



CAPE HENLOPEN 77-01
MAY 1977
CTD STATIONS

9+

10, 10A

8, 8A, 11

12, 13

14, 15

40, 38, 44, 42, 46

36, 41, 37, 43, 39, 45

34, 35

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31, 62, 32, 63

30, 61, 60

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56, 57

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CAPE HENLOPEN 77-01

Cruise dates: 29 April 1977 - 11 May 1977

Station numbers: 1-63

CTD and bottle data (60): 1-3, 5-8, 10-14, 16-63

CTD data only (1): 15

Bottle data only (2): 4, 9

SHIP CH CRUISE 77-01 STATION 1 POSITION 39 30.90 N 74 9.40 W
 LOCAL TIME 1120 DATE 77/ 4/29 WIND = knots DIR = DEPTH= 15M

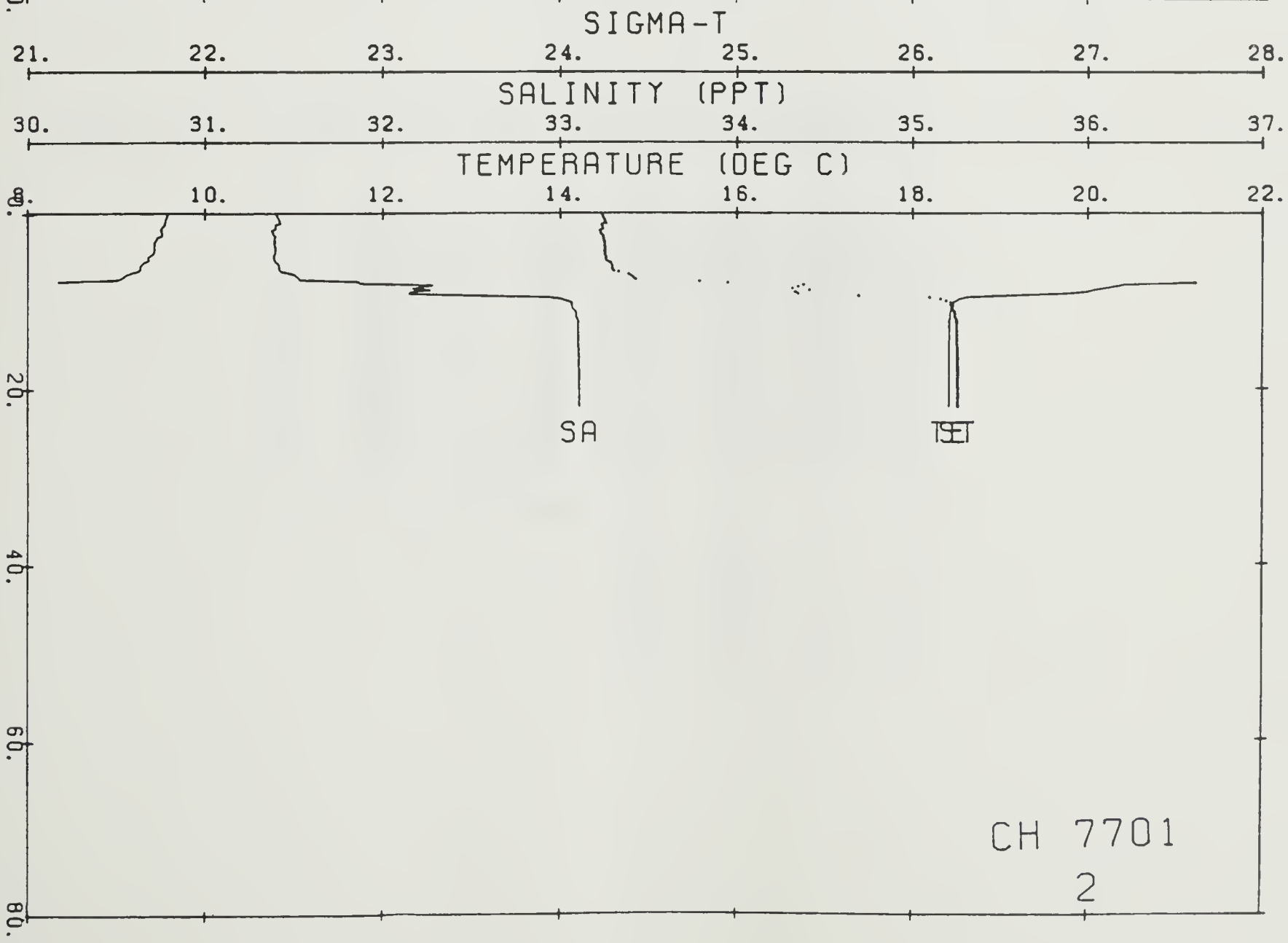
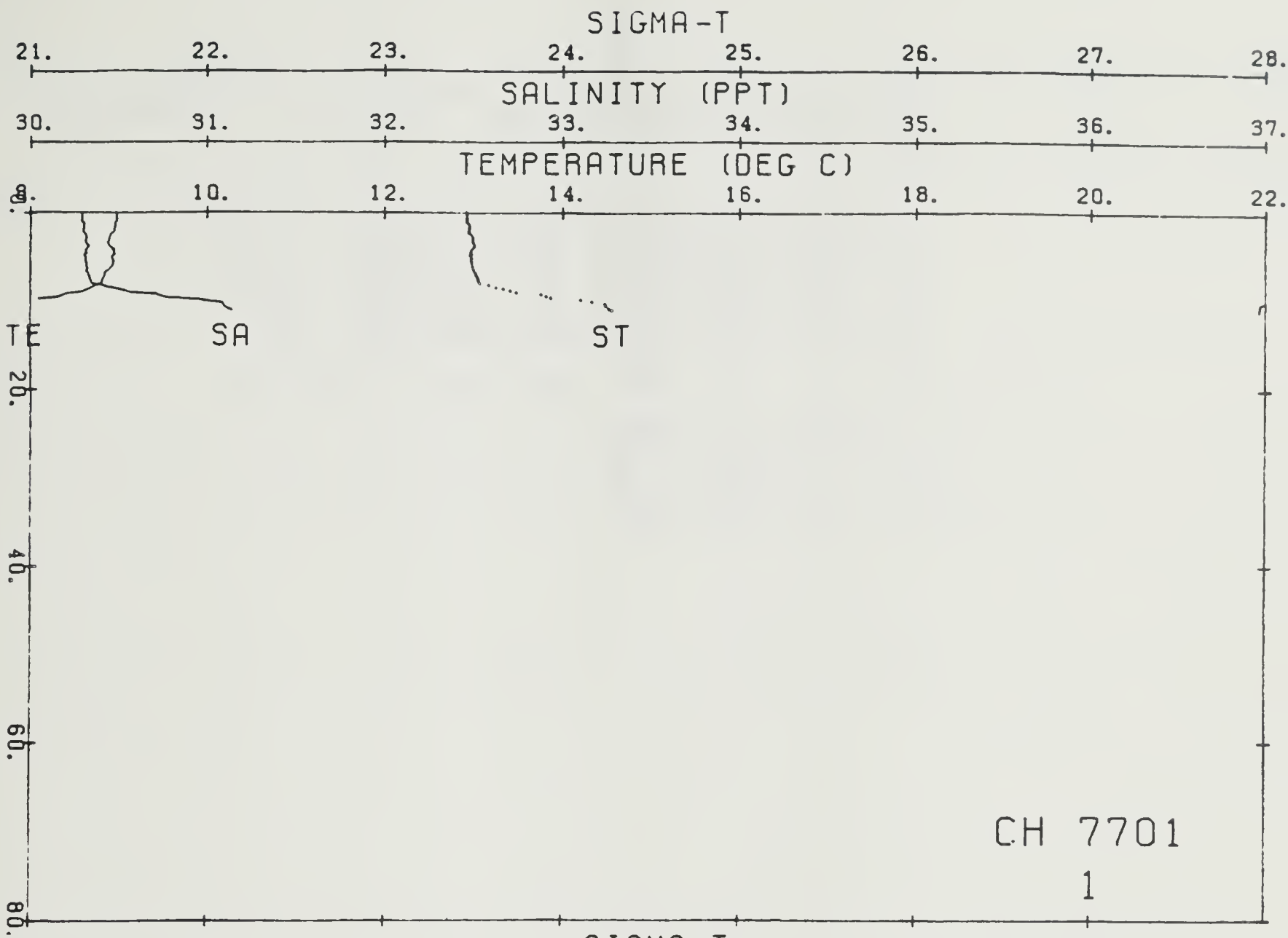
DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	8.973	30.292	23.438	443.7	0.000	1480.5	0.0
5	8.922	30.312	23.462	441.4	.022	1480.5	5.0
10	7.998	31.004	24.138	377.0	.043	1477.9	10.0
11	7.924	31.136	24.252	366.2	.046	1477.8	11.0

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
0	8.940	30.291	7.21					
10	7.920	31.077	6.74					

SHIP CH CRUISE 77-01 STATION 2 POSITION 39 26.90 N 73 55.70 W
 LOCAL TIME 1445 DATE 77/ 4/29 WIND = knots DIR = DEPTH= 26M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	9.579	31.398	24.209	370.1	0.000	1484.2	0.0
5	9.355	31.386	24.235	367.8	.018	1483.5	5.0
10	4.499	33.036	26.173	183.3	.032	1466.5	10.0
15	4.416	33.102	26.234	177.5	.041	1466.3	15.0
20	4.414	33.108	26.239	177.2	.050	1466.4	20.1
22	4.413	33.109	26.240	177.1	.054	1466.4	22.0

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
0	9.600	31.400	6.66					
4	9.380	31.409	6.80					
9		31.832	6.44					
13	4.420	33.100	5.43					
19	4.420	33.108	5.70					



SHIP CH CRUISE 77-01 STATION 3 POSITION 39 29.90 N 73 50.80 W
 LOCAL TIME 1741 DATE 77/ 4/29 WIND = knots DIR = DEPTH= 33M

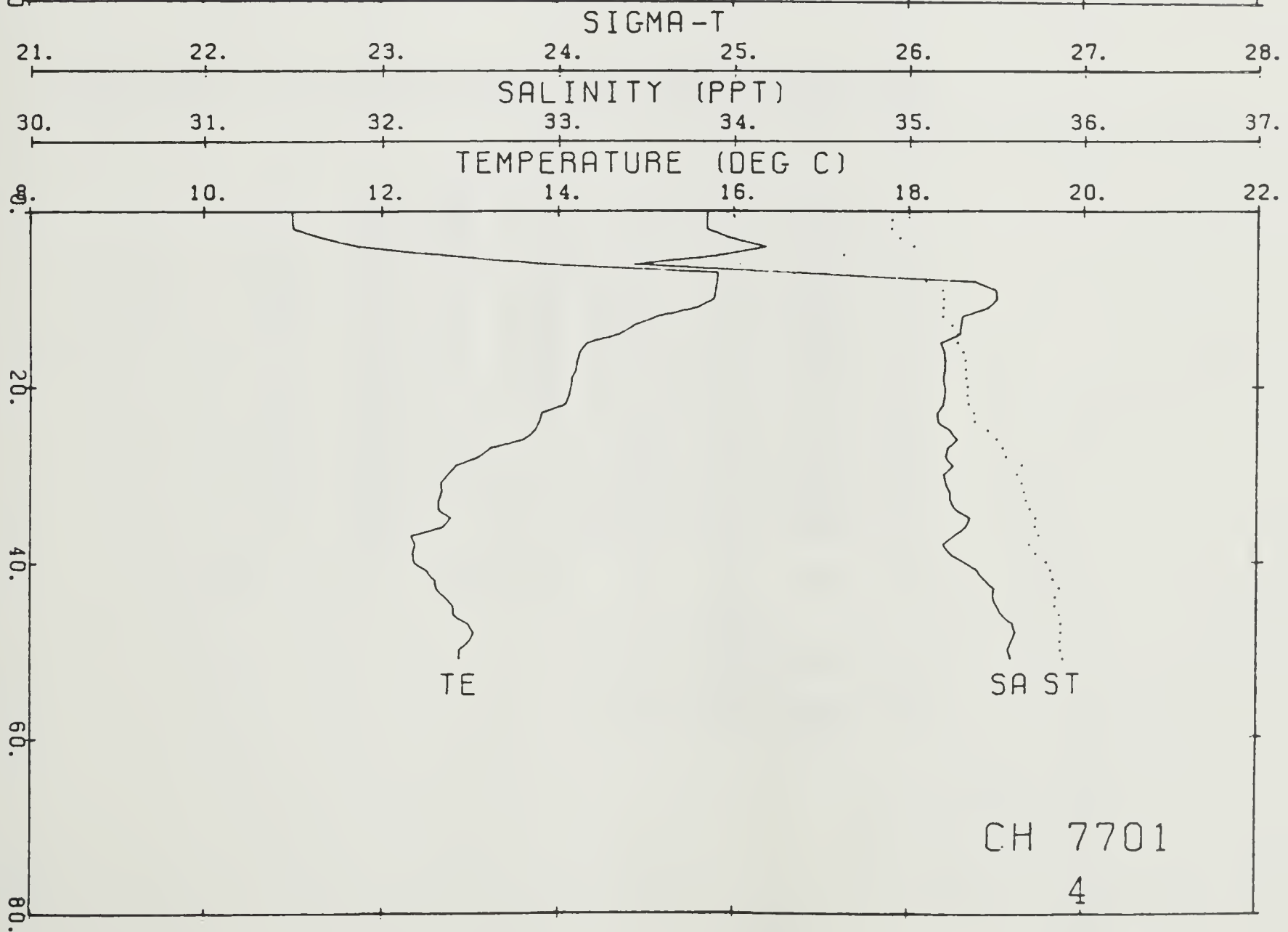
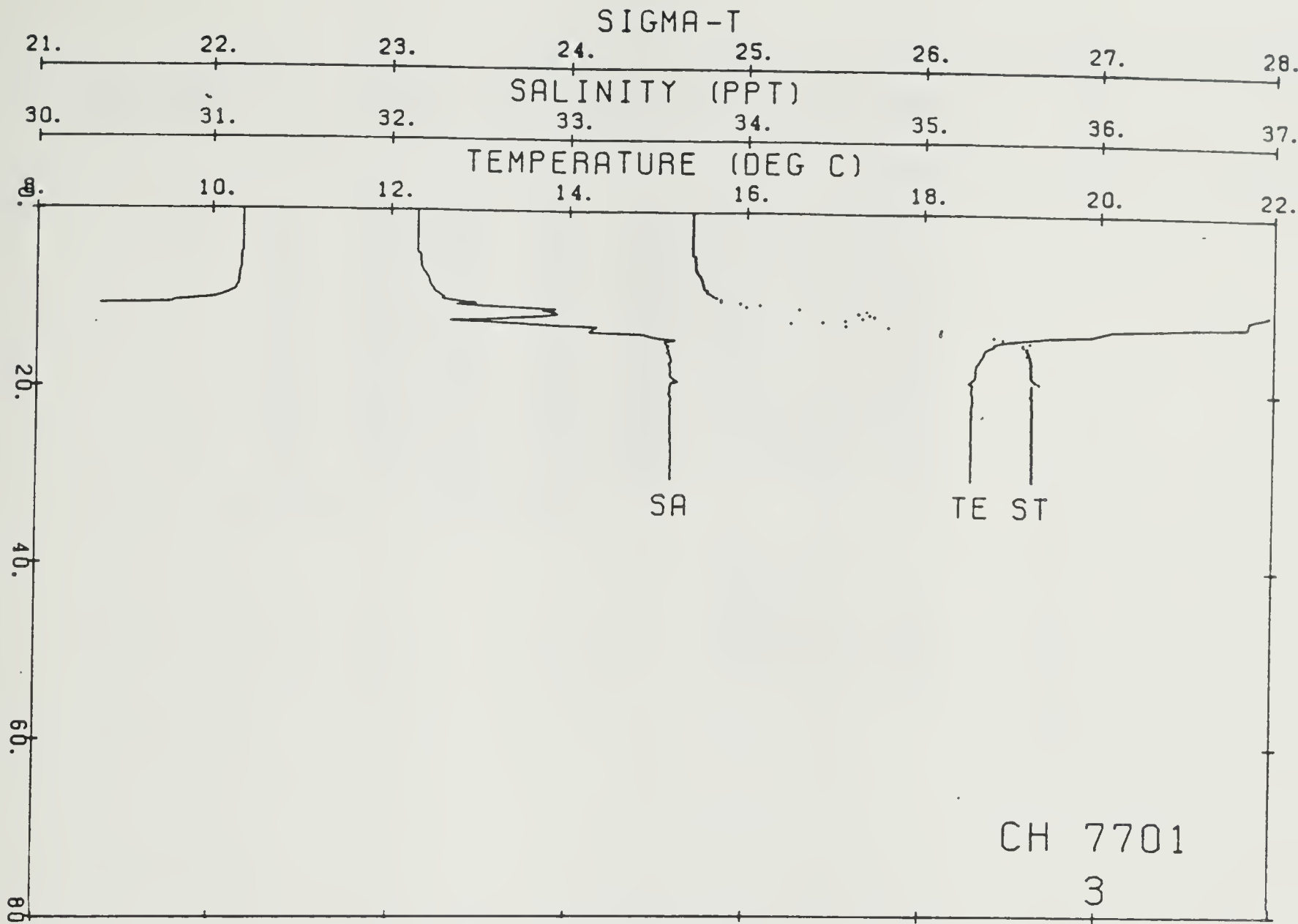
DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	10.344	32.149	24.669	326.3	0.000	1488.0	0.0
5	10.326	32.165	24.685	324.9	.016	1488.0	5.0
10	10.011	32.286	24.832	310.9	.032	1487.1	10.0
15	4.742	33.557	26.561	146.6	.044	1468.3	15.0
20	4.552	33.566	26.588	144.1	.051	1467.6	20.2
25	4.551	33.572	26.593	143.6	.058	1467.7	25.2
30	4.555	33.576	26.596	143.4	.065	1467.8	30.0

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
0	10.590	32.108	6.45					
6	10.320	32.207	7.13					
13		33.575	7.04					
20	4.520	33.593	6.10					
27	4.610	33.585	6.41					

SHIP CH CRUISE 77-01 STATION 4 POSITION 39 15.40 N 73 11.30 W
 LOCAL TIME 2010 DATE 77/ 4/29 WIND = knots DIR = DEPTH= 52M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	10.982	33.845	25.880	211.1	0.000	1492.4	0.0
5	12.763	33.815	25.522	245.2	.011	1498.7	5.0
10	15.699	35.475	26.183	182.7	.022	1510.3	10.1
15	14.390	35.217	26.273	174.2	.031	1506.0	15.1
20	14.125	35.202	26.317	170.1	.040	1505.2	20.1
25	13.693	35.236	26.435	159.1	.048	1503.9	25.2
30	12.727	35.217	26.616	141.9	.056	1500.7	30.2
35	12.702	35.319	26.700	134.1	.063	1500.8	35.2
40	12.420	35.335	26.768	127.8	.069	1500.0	40.2
45	12.784	35.512	26.834	121.8	.076	1501.5	45.3
50	12.889	35.575	26.862	119.3	.082	1502.0	50.3
51	12.870	35.580	26.869	118.6	.082	1502.0	51.0

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
0	9.760	33.676	7.10					
7		33.683	7.08					
15	6.870	34.110	7.89					
24		34.104	6.87					
32	5.890	34.122	6.85					
40	5.880	34.107	6.81					



SHIP CH CRUISE 77-01 STATION 5 POSITION 39 11.20 N 73 11.30 W
 LOCAL TIME 120 DATE 77/ 4/30 WIND = knots DIR = DEPTH= 62M

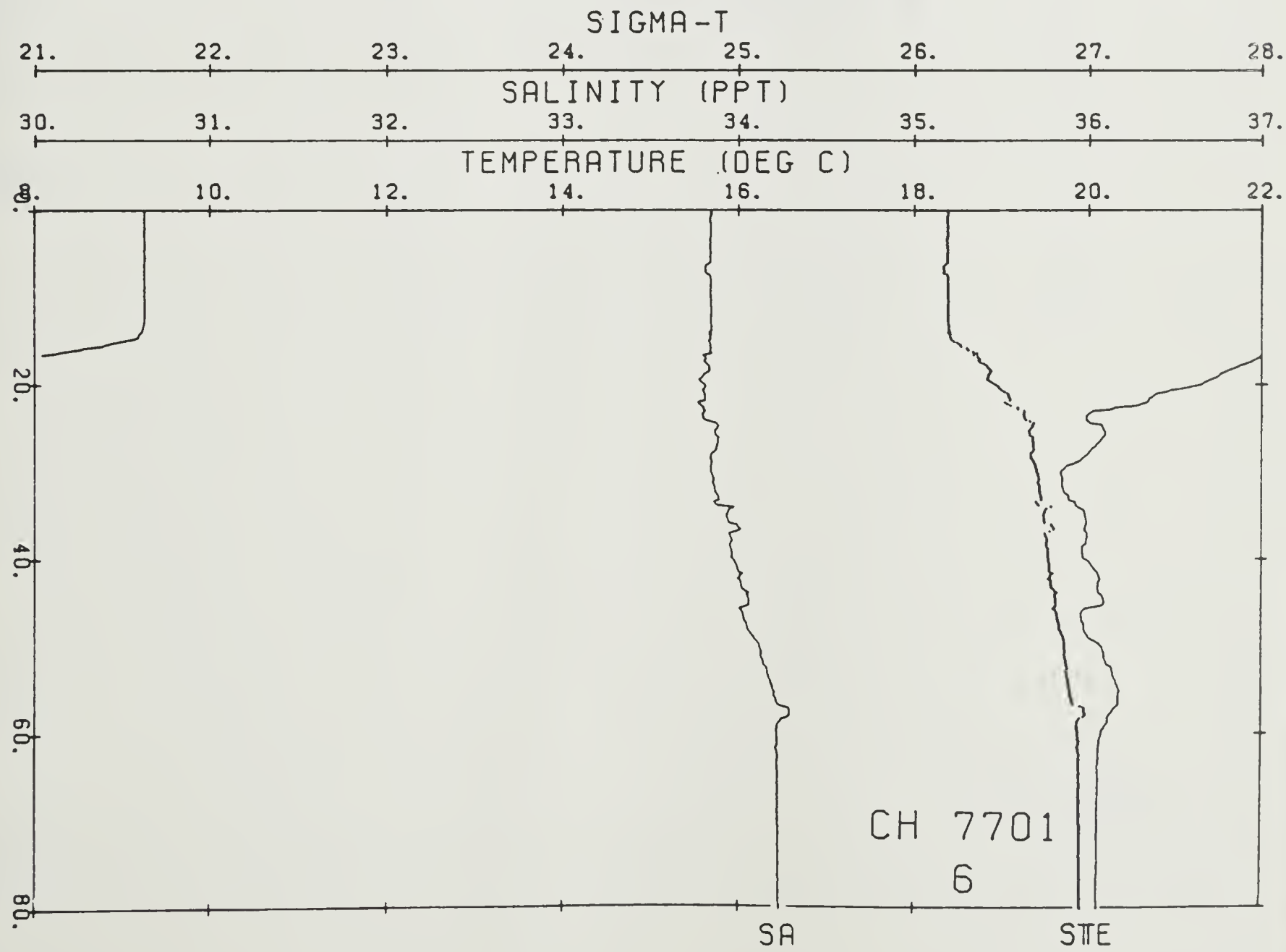
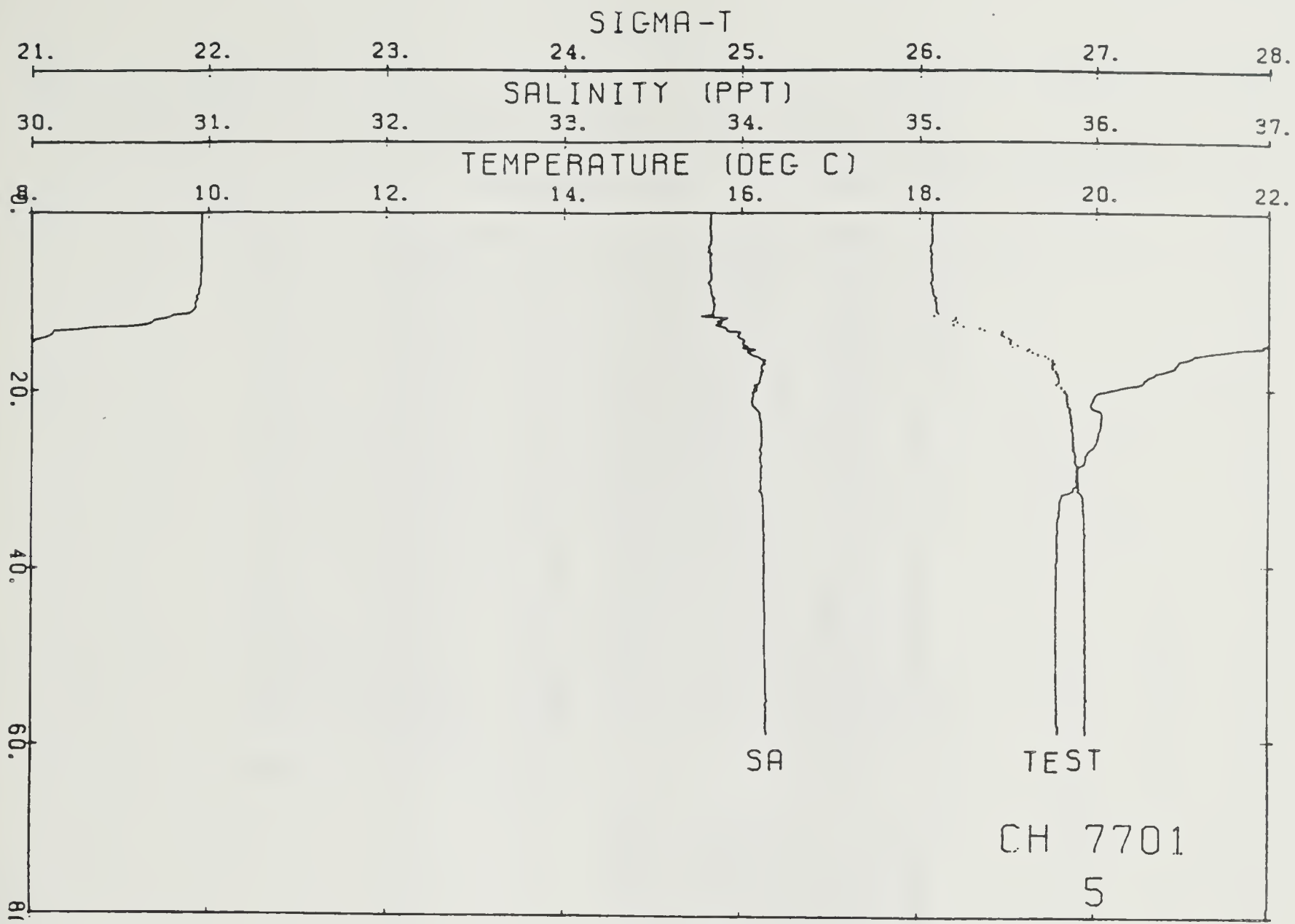
DTH	TEM	SAL	SGT	AND	DYN	SVL	PRS
0	9.919	33.823	26.047	195.2	0.000	1488.6	0.0
5	9.920	33.818	26.043	195.7	.010	1488.7	5.0
10	9.857	33.840	26.071	193.2	.019	1488.5	10.0
15	7.932	34.038	26.529	149.8	.028	1481.7	15.0
20	6.097	34.059	26.797	124.3	.035	1474.6	20.1
25	6.020	34.115	26.851	119.3	.042	1474.4	25.4
30	5.766	34.109	26.878	116.7	.047	1473.4	30.2
35	5.561	34.125	26.916	113.2	.053	1472.7	35.2
40	5.551	34.129	26.920	112.8	.059	1472.8	40.2
45	5.548	34.134	26.925	112.5	.064	1472.8	45.2
50	5.557	34.137	26.926	112.4	.070	1473.0	50.3
55	5.562	34.141	26.928	112.2	.076	1473.1	55.4
59	5.576	34.144	26.929	112.2	.080	1473.2	59.0

DTH	TEM	SAL	OXG	PHDS	NITR	SIL	NO2	AMM
0	9.910	33.805						
3		33.809						
7	9.790	33.803						
30		34.079						
39	5.550	34.092						
59	5.560	34.093						

SHIP CH CRUISE 77-01 STATION 6 POSITION 39 5.80 N 72 56.60 W
 LOCAL TIME 440 DATE 77/ 4/30 WIND = knots DIR = DEPTH= 80M

DTH	TEM	SAL	SGT	AND	DYN	SVL	PRS
0	9.248	33.842	26.172	183.3	0.000	1486.1	0.0
5	9.252	33.837	26.168	183.8	.009	1486.2	5.0
10	9.252	33.841	26.171	183.6	.018	1486.3	10.0
15	8.990	33.828	26.203	180.7	.027	1485.4	15.0
20	7.196	33.813	26.457	156.6	.036	1478.6	20.2
25	6.180	33.864	26.633	139.9	.044	1474.7	25.2
30	5.670	33.849	26.684	135.1	.051	1472.7	30.2
35	5.963	33.938	26.718	131.9	.057	1474.1	35.2
40	6.007	33.981	26.746	129.3	.064	1474.4	40.2
45	6.156	34.059	26.789	125.3	.070	1475.2	45.2
50	6.172	34.129	26.843	120.4	.076	1475.4	50.4
55	6.347	34.202	26.878	117.1	.082	1476.3	55.4
60	6.129	34.221	26.921	113.1	.088	1475.6	60.4
65	6.103	34.222	26.925	112.7	.094	1475.5	65.4
70	6.099	34.225	26.928	112.6	.099	1475.6	70.4
75	6.100	34.226	26.928	112.6	.105	1475.7	75.4
80	6.094	34.231	26.933	112.2	.110	1475.7	80.0

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
0		33.890	7.68					
8		33.835	7.49					
13	9.280	33.832	7.48					
34		33.850	7.49					
49	6.290	34.088	6.77					
77	6.050	34.167	6.21					



SHIP CH CRUISE 77-01 STATION 7 POSITION 39 2.19 N 72 50.00 W
 LOCAL TIME 650 DATE 77/ 4/30 WIND = knots DIR = DEPTH= 113M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	8.973	33.807	26.188	181.8	0.000	1485.1	0.0
5	8.973	33.809	26.190	181.7	.009	1485.1	5.0
10	8.954	33.810	26.194	181.5	.018	1485.2	10.0
15	8.822	33.812	26.216	179.4	.027	1484.7	15.0
20	6.784	33.774	26.483	154.1	.036	1476.9	20.1
25	5.863	33.801	26.622	140.9	.044	1473.4	25.4
30	6.074	33.940	26.706	133.1	.050	1474.5	30.2
35	6.772	34.185	26.808	123.5	.057	1477.7	35.2
40	6.844	34.225	26.830	121.5	.063	1478.1	40.2
45	7.159	34.355	26.889	116.0	.069	1479.6	45.2
50	7.009	34.402	26.946	110.6	.074	1479.1	50.3
55	7.046	34.417	26.953	110.0	.080	1479.4	55.4
60	7.084	34.430	26.959	109.6	.085	1479.6	60.4
65	7.137	34.450	26.966	109.0	.091	1479.9	65.4
70	7.196	34.468	26.973	108.5	.096	1480.3	70.4
75	7.210	34.474	26.975	108.3	.102	1480.4	75.4
80	7.215	34.478	26.978	108.1	.107	1480.5	80.6
85	7.308	34.503	26.984	107.6	.113	1481.0	85.6
90	7.399	34.544	27.004	105.9	.118	1481.5	90.6
95	7.290	34.509	26.992	107.1	.123	1481.1	95.6
100	7.374	34.553	27.014	105.0	.129	1481.6	100.6
105	7.411	34.556	27.012	105.4	.134	1481.8	105.6
110	7.419	34.562	27.015	105.2	.140	1481.9	110.8
110	7.421	34.562	27.015	105.2	.140	1481.9	111.0

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
0		33.787	7.53					
22		33.785	7.82					
50	6.990	34.333	6.24					
74		34.405	5.89					
99	7.390	34.471	5.47					
109	7.430	34.479	5.75					

SIGMA-T

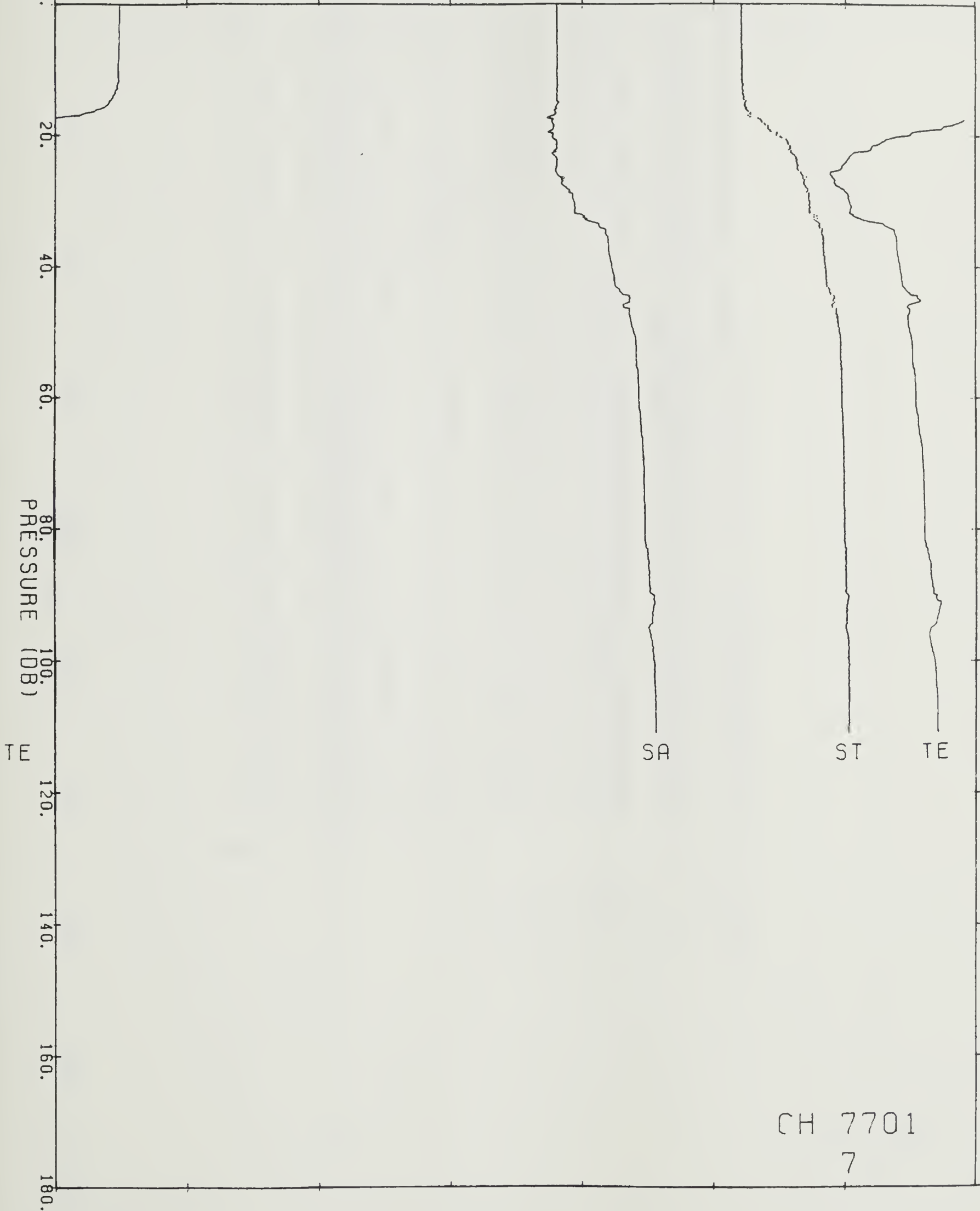
21. 22. 23. 24. 25. 26. 27. 28.

SALINITY (PPT)

30. 31. 32. 33. 34. 35. 36. 37.

TEMPERATURE (DEG C)

8. 10. 12. 14. 16. 18. 20. 22.



SHIP CH CRUISE 77-01 STATION 8 POSITION 39 2.10 N 72 33.10 W
 LOCAL TIME 1332 DATE 77/ 4/30 WIND = knots DIR = DEPTH=1006M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	13.156	35.099	26.439	158.0	0.000	1501.5	0.0
5	12.975	35.332	26.656	137.6	.007	1501.3	5.0
10	13.229	35.449	26.695	134.0	.014	1502.4	10.0
15	13.324	35.442	26.670	136.5	.021	1502.8	15.2
20	13.350	35.459	26.678	135.9	.028	1502.9	20.1
25	13.657	35.633	26.749	129.3	.035	1504.3	25.4
30	13.640	35.793	26.877	117.3	.041	1504.5	30.2
35	13.174	35.761	26.948	110.7	.047	1503.0	35.2
40	12.921	35.715	26.963	109.3	.052	1502.2	40.2
45	12.791	35.733	27.004	105.6	.057	1501.8	45.2
50	12.711	35.699	26.993	106.8	.063	1501.6	50.3
55	12.375	35.678	27.044	102.1	.068	1500.5	55.4
60	12.318	35.687	27.062	100.5	.073	1500.4	60.4
65	12.183	35.673	27.077	99.2	.078	1500.0	65.4
70	12.293	35.712	27.086	98.5	.083	1500.5	70.4
75	12.223	35.733	27.116	95.8	.088	1500.4	75.6
80	12.213	35.704	27.095	97.8	.093	1500.4	80.6
85	12.193	35.681	27.082	99.3	.098	1500.4	85.6
90	12.139	35.698	27.105	97.2	.103	1500.3	90.6
95	12.110	35.690	27.105	97.3	.108	1500.3	95.6
100	12.088	35.687	27.106	97.3	.113	1500.3	100.6
105	12.073	35.690	27.112	96.9	.118	1500.3	105.8
110	12.031	35.678	27.111	97.1	.122	1500.2	110.8
115	11.995	35.675	27.115	96.8	.127	1500.2	115.8
120	11.997	35.685	27.122	96.3	.132	1500.3	120.8
125	11.926	35.669	27.124	96.2	.137	1500.1	125.8
130	11.882	35.665	27.129	95.9	.142	1500.0	130.8
135	11.860	35.675	27.141	94.9	.147	1500.1	136.0
140	11.857	35.670	27.137	95.3	.152	1500.1	141.0
145	11.818	35.661	27.139	95.3	.156	1500.1	146.0
150	11.820	35.671	27.145	94.8	.161	1500.2	151.0
155	11.817	35.668	27.144	95.1	.166	1500.2	156.0
160	11.813	35.676	27.151	94.6	.171	1500.3	161.2
165	11.761	35.667	27.154	94.4	.175	1500.2	166.2
170	11.719	35.660	27.156	94.3	.180	1500.1	171.2
175	11.684	35.656	27.160	94.1	.185	1500.1	176.2
180	11.617	35.648	27.166	93.5	.190	1499.9	181.2
185	11.570	35.640	27.169	93.4	.194	1499.8	186.4
190	11.521	35.631	27.171	93.3	.199	1499.7	191.4
195	11.444	35.624	27.180	92.6	.204	1499.5	196.4
200	11.395	35.615	27.182	92.4	.208	1499.4	201.4
225	11.022	35.569	27.215	89.8	.231	1498.5	226.6
250	10.601	35.514	27.249	87.0	.254	1497.3	251.8
275	10.032	35.447	27.296	82.8	.275	1495.6	277.0
300	9.338	35.366	27.350	77.9	.295	1493.4	302.2
325	8.776	35.327	27.411	72.3	.314	1491.6	327.4
350	8.293	35.317	27.479	66.0	.332	1490.2	352.6
375	7.837	35.297	27.532	61.1	.348	1488.8	377.8
400	7.464	35.302	27.591	55.8	.362	1487.8	403.0
425	7.034	35.303	27.653	49.9	.376	1486.6	428.4
436	6.849	35.303	27.679	47.5	.381	1486.0	439.8

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
0	12.720	35.071	7.10					
48		35.676	5.78					
96	11.720	35.543	5.95					
248		35.368	4.73					
495	5.860		5.19					
964		34.979	6.21					

SIGMA-T

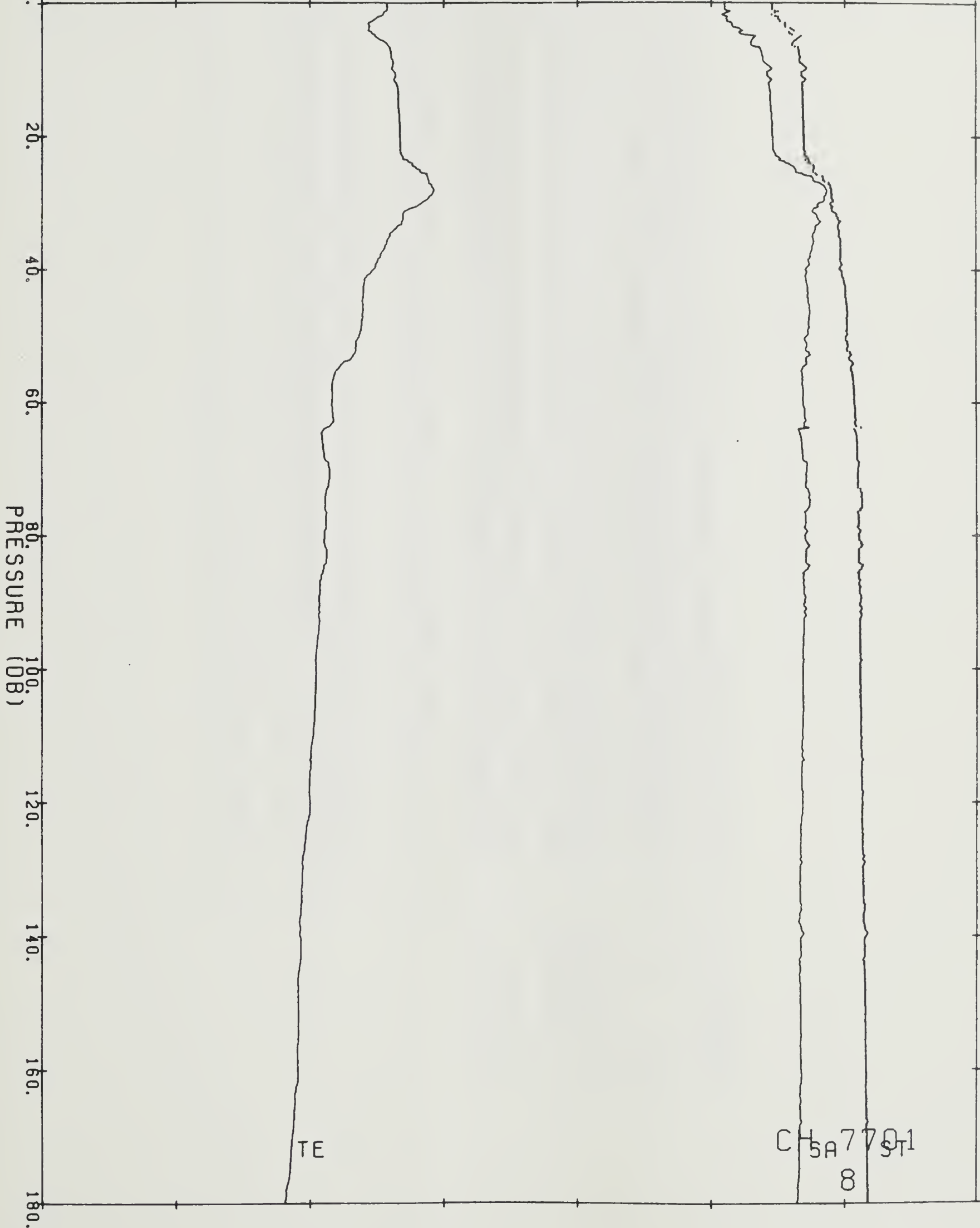
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SALINITY (PPT)

30. 31. 32. 33. 34. 35. 36. 37.

TEMPERATURE (DEG C)

8. 10. 12. 14. 16. 18. 20. 22.



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8

SHIP CH CRUISE 77-01 STATION 10 POSITION 38 47.00 N 72 9.50 W
 LOCAL TIME 941 DATE 77/ 5/ 1 WIND = knots DIR = DEPTH=2644M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS	
0	13.156	35.099	26.439	158.0	0.000	1501.5	0.0	
5	12.975	35.332	26.656	137.6	.007	1501.3	5.0	
10	13.249	35.430	26.676	135.7	.014	1502.4	10.0	
15	13.674	35.597	26.718	132.0	.021	1504.1	15.2	
20	13.520	35.571	26.730	131.0	.028	1503.6	20.2	
25	13.643	35.547	26.686	135.3	.034	1504.1	25.2	
30	13.111	35.763	26.962	109.2	.041	1502.7	30.2	
35	13.059	35.780	26.986	107.1	.046	1502.6	35.2	
40	12.797	35.526	26.842	120.9	.052	1501.5	40.2	
45	12.495	35.571	26.937	112.0	.057	1500.6	45.2	
50	12.293	35.616	27.011	105.0	.063	1500.1	50.4	
55	12.174	35.620	27.038	102.7	.068	1499.8	55.4	
60	12.068	35.622	27.060	100.7	.073	1499.5	60.4	
65	12.061	35.625	27.064	100.4	.078	1499.5	65.4	
70	12.042	35.633	27.073	99.7	.083	1499.6	70.4	
75	11.970	35.634	27.088	98.4	.089	1499.4	75.6	
80	11.902	35.626	27.095	97.8	.093	1499.2	80.6	
85	11.925	35.640	27.101	97.4	.098	1499.4	85.6	
90	11.960	35.652	27.104	97.2	.103	1499.6	90.6	
95	11.992	35.665	27.108	97.0	.108	1499.8	95.6	
100	12.057	35.687	27.112	96.7	.113	1500.2	100.6	
105	11.989	35.672	27.114	96.6	.118	1500.0	105.8	
110	12.017	35.685	27.119	96.3	.123	1500.2	110.8	
115	12.021	35.689	27.121	96.3	.128	1500.3	115.8	
120	12.085	35.709	27.124	96.1	.132	1500.6	120.8	
125	12.054	35.704	27.126	96.0	.137	1500.6	125.8	
130	12.011	35.699	27.130	95.8	.142	1500.5	130.8	
135	12.015	35.705	27.134	95.5	.147	1500.6	136.0	
140	11.991	35.703	27.138	95.3	.152	1500.6	141.0	
145	11.990	35.707	27.141	95.1	.156	1500.7	146.0	
150	12.003	35.716	27.145	94.9	.161	1500.8	151.0	
155	12.019	35.724	27.149	94.7	.166	1501.0	156.0	
160	12.015	35.725	27.150	94.7	.171	1501.1	161.2	
165	12.003	35.726	27.153	94.5	.176	1501.1	166.2	
170	12.026	35.734	27.155	94.5	.180	1501.3	171.2	
175	12.031	35.738	27.157	94.4	.185	1501.4	176.2	
180	12.033	35.741	27.159	94.4	.190	1501.5	181.2	
185	12.036	35.744	27.161	94.3	.194	1501.6	186.2	
190	12.035	35.747	27.163	94.2	.199	1501.6	191.4	
195	12.037	35.748	27.164	94.3	.204	1501.7	196.4	
200	12.036	35.751	27.167	94.2	.209	1501.8	201.4	
225	12.043	35.764	27.175	94.0	.233	1502.3	226.6	
250	11.497	35.664	27.201	91.9	.256	1500.7	251.8	
275	11.052	35.606	27.239	88.8	.279	1499.4	277.0	
300	10.261	35.502	27.299	83.2	.300	1496.9	302.2	
325	9.503	35.398	27.348	78.7	.321	1494.4	327.4	
350	9.124	35.384	27.399	74.2	.340	1493.4	352.6	
375	8.679	35.364	27.455	69.0	.358	1492.1	377.8	
400	7.996	35.337	27.540	61.0	.375	1489.9	403.0	
425	7.409	35.318	27.611	54.2	.389	1488.0	428.4	
450	6.997	35.315	27.668	48.9	.402	1486.9	453.6	
475	6.730	35.325	27.712	44.9	.414	1486.2	478.8	
486	6.594	35.328	27.734	42.9	.419	1485.9	489.8	
DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
5	13.610	35.010	5.64					
22		35.575	7.10					
38		35.539	6.87					
64	11.850	35.592	5.83					
102		35.590	5.87					
1330		35.589	5.76					
1486		34.982	6.22					
1736		34.985	6.22					
1986	3.540		6.26					
2609	2.290	34.921	6.48					

SIGMA-T

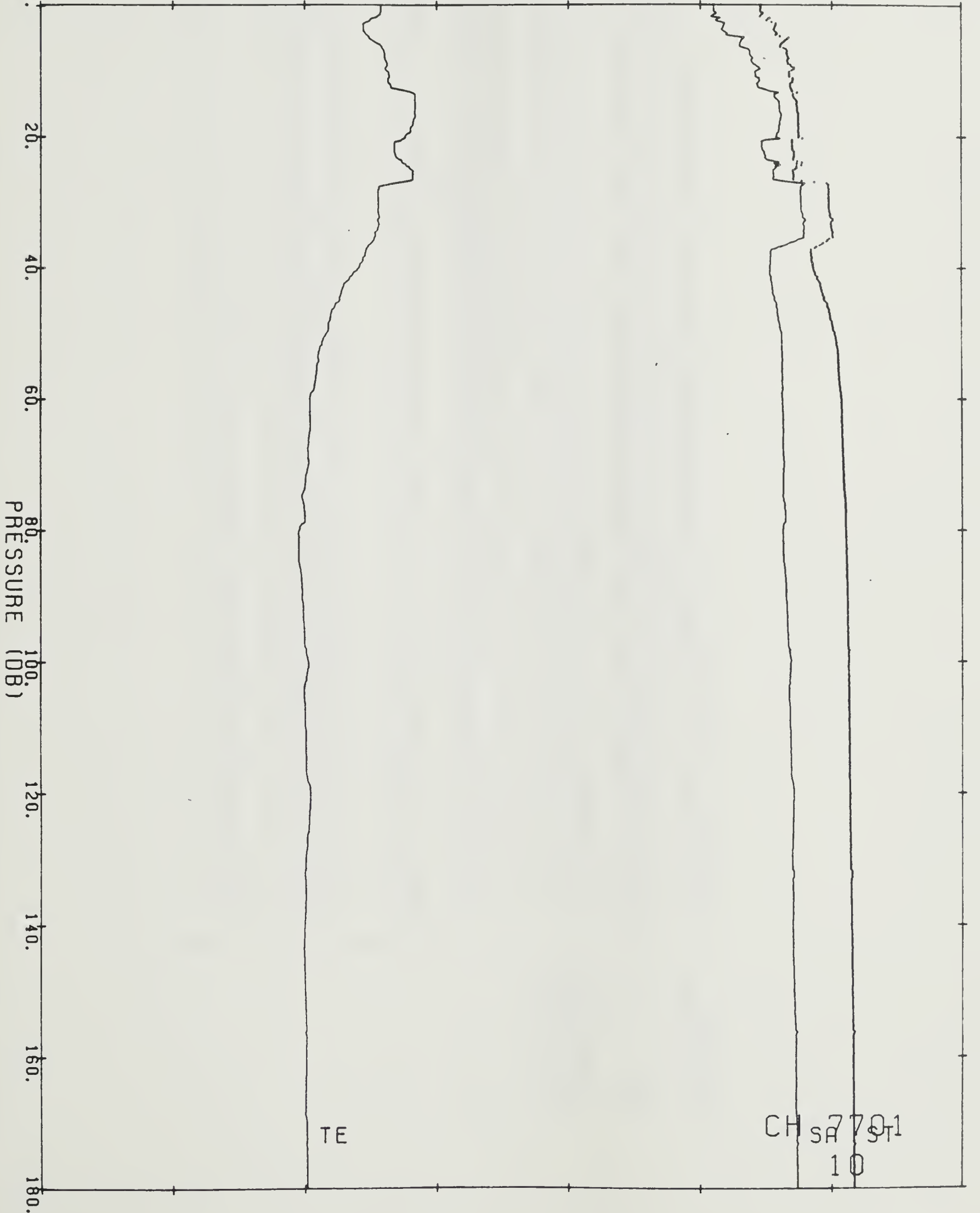
21. 22. 23. 24. 25. 26. 27. 28.

SALINITY (PPT)

30. 31. 32. 33. 34. 35. 36. 37.

TEMPERATURE (DEG C)

8. 10. 12. 14. 16. 18. 20. 22.



SHIP CH CRUISE 77-01 STATION 11 POSITION 39 .80 N 72 24.10 W
 LOCAL TIME 1538 DATE 77/ 5/ 1 WIND = knots DIR = DEPTH=1555M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS	
0	14.396	35.272	26.314	169.9	0.000	1505.8	0.0	
5	14.231	35.352	26.411	160.8	.008	1505.4	5.0	
10	15.023	35.900	26.662	137.2	.016	1508.7	10.1	
15	14.917	35.925	26.705	133.2	.023	1508.5	15.1	
20	14.569	35.899	26.761	128.1	.029	1507.5	20.1	
25	14.285	35.852	26.786	125.8	.036	1506.6	25.2	
30	13.634	35.753	26.847	120.1	.042	1504.4	30.2	
35	13.051	35.641	26.880	117.1	.048	1502.4	35.2	
40	12.285	35.490	26.915	113.9	.054	1499.7	40.3	
45	12.473	35.593	26.958	109.9	.059	1500.6	45.3	
50	12.307	35.576	26.977	108.2	.065	1500.1	50.3	
55	12.176	35.584	27.010	105.3	.070	1499.7	55.4	
60	12.103	35.616	27.049	101.7	.075	1499.6	60.4	
65	11.921	35.597	27.069	99.9	.080	1499.0	65.4	
70	11.917	35.605	27.075	99.4	.085	1499.1	70.5	
75	11.921	35.606	27.075	99.5	.090	1499.2	75.5	
80	11.969	35.623	27.080	99.3	.095	1499.5	80.5	
85	12.044	35.645	27.082	99.2	.100	1499.8	85.6	
90	12.051	35.646	27.082	99.3	.105	1499.9	90.6	
95	12.123	35.675	27.090	98.7	.110	1500.3	95.6	
100	12.160	35.680	27.087	99.1	.115	1500.5	100.7	
105	12.205	35.695	27.090	99.0	.120	1500.8	105.7	
110	12.228	35.701	27.090	99.1	.125	1500.9	110.7	
115	12.231	35.700	27.089	99.4	.130	1501.0	115.8	
120	12.231	35.700	27.089	99.5	.135	1501.1	120.8	
125	12.231	35.700	27.088	99.7	.140	1501.2	125.9	
130	12.232	35.699	27.088	99.8	.145	1501.3	130.9	
135	12.235	35.701	27.089	99.9	.150	1501.4	135.9	
140	12.237	35.701	27.088	100.1	.155	1501.5	141.0	
145	12.238	35.702	27.089	100.1	.160	1501.5	146.0	
150	12.238	35.702	27.089	100.2	.166	1501.6	151.0	
155	12.239	35.702	27.089	100.4	.171	1501.7	156.1	
160	12.239	35.701	27.088	100.6	.176	1501.8	161.1	
165	12.239	35.702	27.088	100.7	.181	1501.9	166.1	
170	12.228	35.699	27.089	100.8	.186	1501.9	171.2	
175	12.211	35.693	27.087	101.1	.191	1501.9	176.2	
180	12.178	35.688	27.090	101.0	.196	1501.9	181.3	
185	12.155	35.682	27.090	101.1	.201	1501.9	186.3	
190	12.138	35.678	27.090	101.2	.206	1501.9	191.3	
195	12.118	35.673	27.090	101.3	.211	1501.9	196.4	
200	12.109	35.672	27.091	101.3	.216	1502.0	201.4	
225	12.107	35.671	27.090	102.1	.242	1502.4	226.6	
250	11.976	35.643	27.094	102.3	.268	1502.3	251.8	
275	11.442	35.535	27.111	101.0	.293	1500.7	277.0	
300	10.972	35.459	27.139	98.8	.319	1499.4	302.2	
325	9.949	35.301	27.196	93.3	.343	1495.9	327.4	
350	8.945	35.182	27.270	86.2	.365	1492.5	352.6	
375	8.169	35.115	27.339	79.6	.386	1489.9	377.8	
400	7.866	35.100	27.373	76.6	.406	1489.1	403.1	
425	7.428	35.082	27.423	72.0	.425	1487.8	428.3	
450	6.830	35.062	27.492	65.3	.442	1485.9	453.5	
475	6.515	35.055	27.529	61.9	.458	1485.0	478.7	
500	6.220	35.043	27.559	59.1	.473	1484.2	504.0	
600	5.313	35.019	27.653	50.5	.529	1482.2	605.0	
700	4.822	35.002	27.698	46.8	.578	1481.8	706.0	
800	4.569	34.991	27.717	45.6	.624	1482.4	807.1	
900	4.397	34.981	27.729	45.2	.670	1483.4	908.2	
996	4.236	34.976	27.742	44.6	.714	1484.3	1005.0	
DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
52		35.602	6.04					
99		35.684						
198	12.110	35.695						
398		35.132	3.85					
593		35.041						
792		35.033						
994		35.047	6.04					
1286	3.980	35.060						
1514	3.870	35.061	6.26					

SIGMA-T

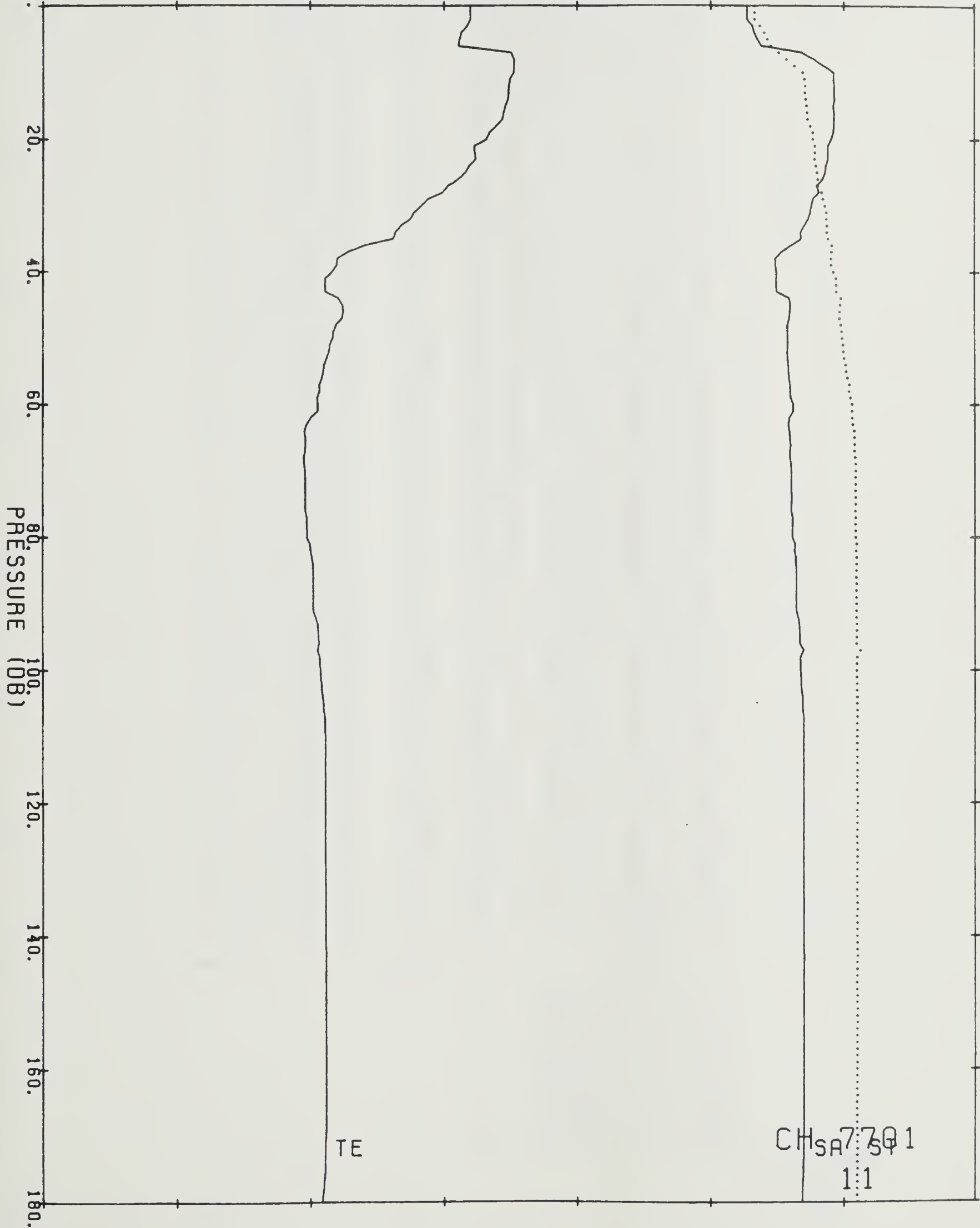
21. 22. 23. 24. 25. 26. 27. 28.

SALINITY (PPT)

30. 31. 32. 33. 34. 35. 36. 37.

TEMPERATURE (DEG C)

8. 10. 12. 14. 16. 18. 20. 22.



SHIP CH CRUISE 77-01 STATION 12 POSITION 39 4.89 N 72 6.40 W
 LOCAL TIME 2215 DATE 77/ 5/ 1 WIND = knots DIR = DEPTH=1900M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	13.510	35.227	26.465	155.5	0.000	1502.9	0.0
5	13.227	35.263	26.551	147.5	.008	1502.0	5.0
10	12.707	35.218	26.621	141.0	.015	1500.3	10.1
15	12.289	35.167	26.664	137.0	.022	1498.9	15.1
20	12.308	35.270	26.740	130.0	.029	1499.2	20.1
25	12.047	35.280	26.798	124.6	.035	1498.4	25.2
30	11.628	35.253	26.857	119.1	.041	1497.0	30.2
35	11.303	35.269	26.930	112.3	.047	1496.0	35.2
40	11.650	35.455	27.010	104.8	.052	1497.5	40.3
45	12.005	35.567	27.029	103.1	.058	1498.9	45.3
50	12.160	35.621	27.041	102.2	.063	1499.6	50.3
55	12.087	35.622	27.057	100.8	.068	1499.5	55.4
60	12.134	35.647	27.066	100.1	.073	1499.7	60.4
65	12.104	35.641	27.068	100.0	.078	1499.7	65.4
70	12.091	35.647	27.075	99.5	.083	1499.7	70.5
75	12.102	35.656	27.080	99.2	.088	1499.9	75.5
80	12.115	35.659	27.080	99.3	.093	1500.0	80.5
85	12.104	35.658	27.081	99.3	.098	1500.1	85.6
90	12.072	35.654	27.084	99.1	.103	1500.0	90.6
95	12.065	35.652	27.084	99.3	.108	1500.1	95.6
100	12.096	35.663	27.086	99.2	.113	1500.3	100.7
105	12.100	35.664	27.086	99.3	.118	1500.4	105.7
110	12.127	35.674	27.089	99.2	.123	1500.6	110.7
115	12.143	35.679	27.089	99.3	.128	1500.7	115.8
120	12.157	35.682	27.089	99.5	.133	1500.8	120.8
125	12.166	35.684	27.089	99.6	.138	1501.0	125.9
130	12.164	35.683	27.089	99.7	.143	1501.0	130.9
135	12.162	35.683	27.089	99.8	.148	1501.1	135.9
140	12.146	35.679	27.089	100.0	.153	1501.1	141.0
145	12.125	35.674	27.089	100.1	.158	1501.1	146.0
150	12.124	35.674	27.089	100.2	.163	1501.2	151.0
155	12.135	35.678	27.090	100.3	.168	1501.3	156.1
160	12.135	35.678	27.090	100.4	.173	1501.4	161.1
165	12.109	35.672	27.090	100.5	.178	1501.4	166.2
170	12.108	35.672	27.091	100.6	.183	1501.5	171.2
175	12.124	35.676	27.091	100.7	.189	1501.6	176.2
180	12.121	35.675	27.090	100.9	.194	1501.7	181.3
185	12.121	35.675	27.091	101.0	.199	1501.8	186.3
190	12.115	35.674	27.091	101.1	.204	1501.8	191.3
195	12.113	35.673	27.091	101.2	.209	1501.9	196.4
200	12.103	35.670	27.091	101.4	.214	1501.9	201.4
225	12.062	35.660	27.091	102.0	.240	1502.2	226.6
250	11.479	35.541	27.109	100.6	.265	1500.4	251.8
275	11.051	35.475	27.137	98.4	.290	1499.3	277.0
300	10.225	35.343	27.181	94.3	.314	1496.6	302.2
325	9.364	35.225	27.235	89.2	.338	1493.7	327.4
350	8.852	35.187	27.288	84.4	.359	1492.1	352.6
375	7.985	35.104	27.358	77.7	.380	1489.2	377.8
400	7.433	35.086	27.426	71.3	.399	1487.4	403.1
425	7.207	35.080	27.453	68.9	.416	1486.9	428.3
450	6.815	35.059	27.492	65.3	.433	1485.8	453.5
475	6.400	35.050	27.540	60.7	.449	1484.6	478.7
500	6.129	35.040	27.568	58.1	.464	1483.9	504.0
600	5.368	35.021	27.648	51.0	.519	1482.4	605.0
700	4.970	35.005	27.683	48.4	.569	1482.4	706.0
800	4.578	34.987	27.714	46.0	.617	1482.5	807.1
900	4.419	34.982	27.727	45.4	.663	1483.5	908.2
969	4.332	34.971	27.728	45.9	.695	1484.2	978.0

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
0	13.620	35.115	7.05					
49		35.638						
101		35.660	5.71					
247	11.130	35.485						
496		35.045	4.67					
743		35.005						
994	4.240	35.000	6.15					
1237		34.971						
1484		34.968	6.16					
1872	3.750	34.970	6.32					

250

SIGMA-T

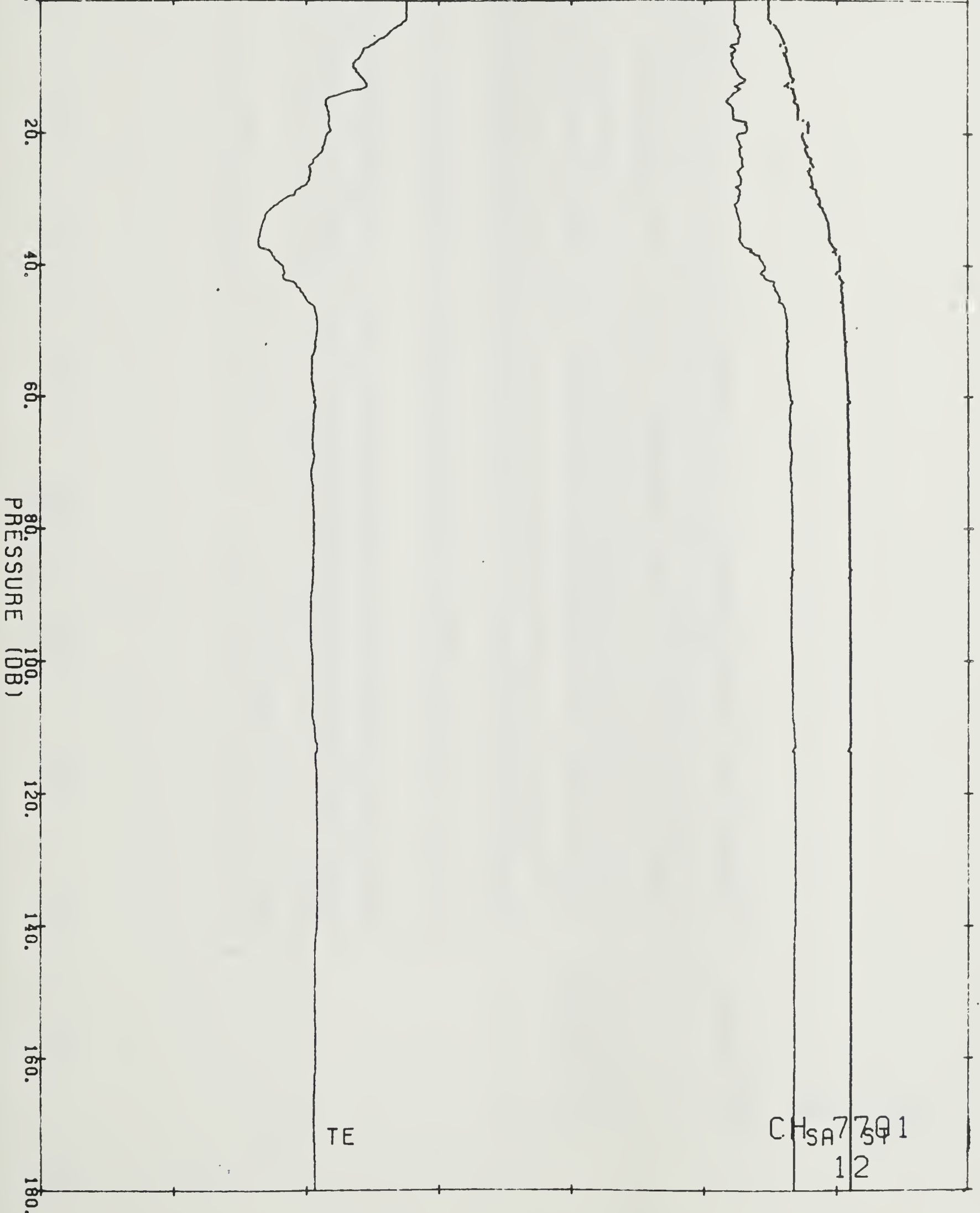
21. 22. 23. 24. 25. 26. 27. 28.

SALINITY (PPT)

30. 31. 32. 33. 34. 35. 36. 37.

TEMPERATURE (DEG C)

8. 10. 12. 14. 16. 18. 20. 22.



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12

SHIP CH CRUISE 77-01 STATION 13 POSITION 39 8.79 N 71 53.20 W
 LOCAL TIME 453 DATE 77/ 5/ 2 WIND = knots DIR = DEPTH=2096M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	13.320	34.948	26.288	172.3	0.000	1501.9	0.0
5	13.110	34.950	26.333	168.2	.009	1501.3	5.0
10	13.077	35.018	26.392	162.7	.017	1501.3	10.1
15	13.061	35.089	26.450	157.3	.025	1501.4	15.1
20	13.044	35.160	26.509	151.9	.033	1501.5	20.1
25	13.027	35.231	26.567	146.5	.040	1501.7	25.2
30	12.479	35.452	26.848	120.0	.047	1500.2	30.2
35	12.236	35.551	26.972	108.3	.053	1499.6	35.2
40	11.934	35.486	26.980	107.7	.058	1498.5	40.3
45	11.045	35.322	27.019	104.1	.063	1495.3	45.3
50	11.039	35.336	27.030	103.1	.069	1495.4	50.3
55	10.951	35.327	27.040	102.3	.074	1495.1	55.4
60	10.965	35.332	27.041	102.3	.079	1495.3	60.4
65	11.129	35.405	27.068	99.9	.084	1496.0	65.4
70	11.662	35.555	27.086	98.4	.089	1498.2	70.5
75	11.820	35.586	27.079	99.2	.094	1498.8	75.5
80	11.801	35.582	27.080	99.2	.099	1498.8	80.5
85	11.801	35.579	27.077	99.6	.104	1498.9	85.6
90	11.753	35.571	27.081	99.4	.109	1498.8	90.6
95	11.701	35.559	27.081	99.5	.114	1498.7	95.6
100	11.693	35.558	27.082	99.6	.119	1498.8	100.7
105	11.780	35.569	27.074	100.5	.124	1499.2	105.7
110	11.788	35.591	27.090	99.1	.129	1499.3	110.7
115	11.838	35.607	27.093	98.9	.134	1499.6	115.8
120	11.828	35.603	27.091	99.2	.139	1499.6	120.8
125	11.791	35.597	27.094	99.0	.144	1499.6	125.9
130	11.788	35.598	27.095	99.1	.149	1499.6	130.9
135	11.755	35.587	27.093	99.4	.154	1499.6	135.9
140	11.668	35.567	27.093	99.4	.159	1499.3	141.0
145	11.556	35.547	27.099	99.0	.164	1499.0	146.0
150	11.499	35.534	27.099	99.1	.169	1498.9	151.0
155	11.397	35.516	27.105	98.6	.174	1498.6	156.1
160	11.342	35.505	27.107	98.6	.179	1498.4	161.1
165	11.322	35.501	27.107	98.7	.184	1498.5	166.1
170	11.251	35.484	27.107	98.7	.189	1498.3	171.2
175	11.113	35.457	27.112	98.4	.194	1497.8	176.2
180	11.161	35.477	27.118	97.9	.199	1498.1	181.3
185	11.195	35.484	27.117	98.1	.204	1498.3	186.3
190	11.225	35.492	27.118	98.2	.209	1498.5	191.3
195	11.224	35.493	27.119	98.3	.214	1498.6	196.4
200	11.145	35.476	27.120	98.2	.219	1498.4	201.4
225	10.953	35.456	27.140	96.9	.243	1498.1	226.6
250	10.519	35.385	27.162	95.2	.267	1496.9	251.8
275	9.757	35.271	27.206	91.2	.291	1494.4	277.0
300	9.139	35.203	27.255	86.7	.313	1492.4	302.2
325	8.645	35.161	27.302	82.5	.335	1490.9	327.4
350	8.270	35.137	27.341	79.0	.355	1489.9	352.6
375	7.802	35.112	27.392	74.3	.374	1488.5	377.9
400	7.658	35.124	27.423	71.7	.393	1488.3	403.1
425	7.075	35.083	27.474	66.8	.410	1486.4	428.3
450	6.756	35.066	27.505	64.0	.427	1485.6	453.5
475	6.395	35.049	27.540	60.7	.442	1484.5	478.8
500	5.990	35.029	27.577	57.1	.457	1483.3	504.0
600	5.215	35.011	27.659	49.8	.511	1481.8	605.0
700	4.870	35.006	27.696	47.0	.560	1482.0	706.0
800	4.635	34.998	27.716	45.9	.607	1482.7	807.1
900	4.428	34.987	27.730	45.1	.653	1483.5	908.3
1000	4.262	34.975	27.739	45.0	.699	1484.5	1009.4
1014	4.282	34.965	27.728	46.2	.706	1484.8	1024.0

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
0	13.160	34.898	7.14					
152		35.497						
250		35.378	4.65					
495	5.840	35.030						
990		34.968	6.07					
1231		34.966						
1480	3.860	34.967	6.20					
1730		34.973						
2000		34.970	6.22					
2084	3.600	34.968	6.25					

SIGMA-T

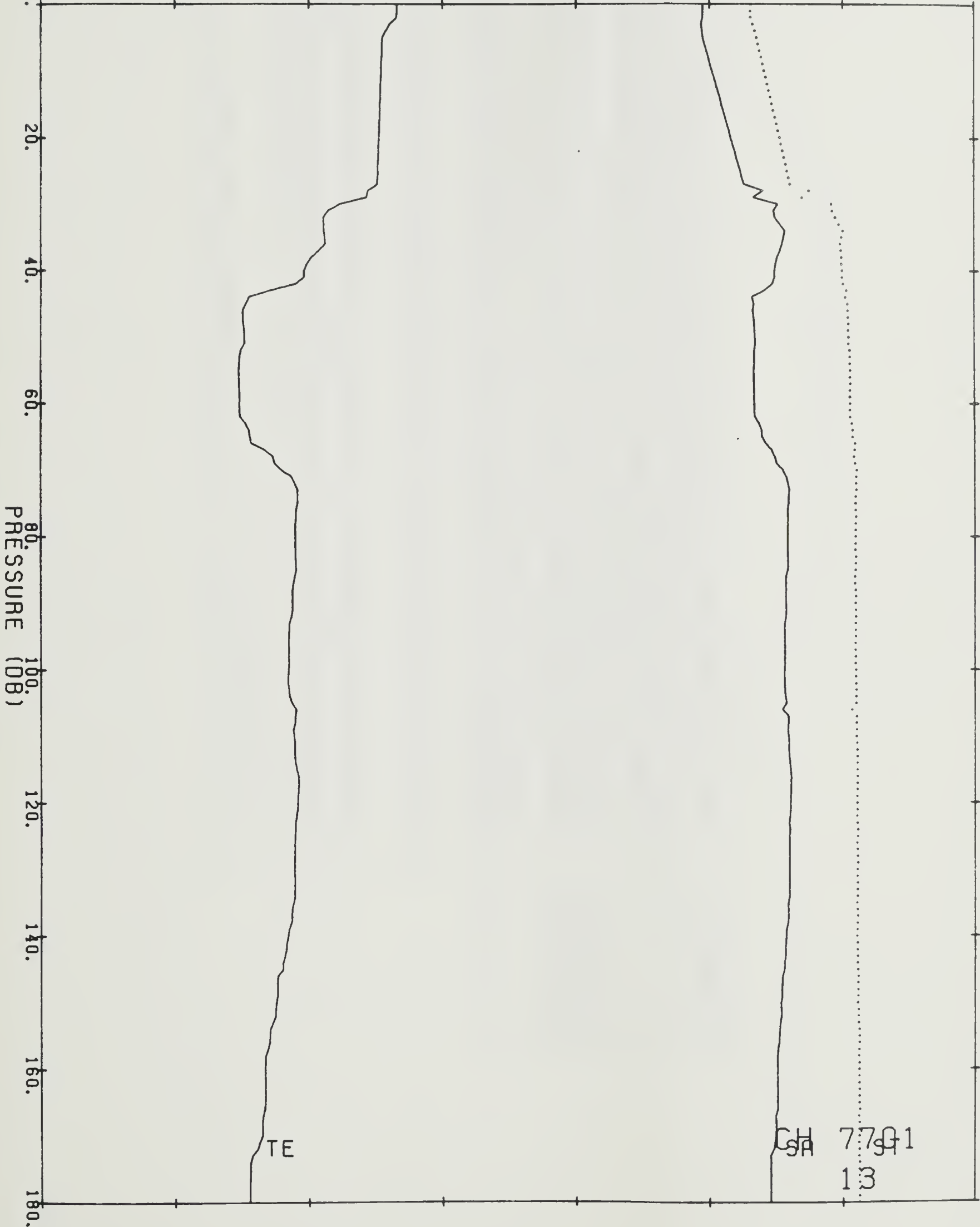
21. 22. 23. 24. 25. 26. 27. 28.

SALINITY (PPT)

30. 31. 32. 33. 34. 35. 36. 37.

TEMPERATURE (DEG C)

8. 10. 12. 14. 16. 18. 20. 22.



SHIP CH CRUISE 77-01 STATION 14 POSITION 39 18.40 N 71 48.90 W
 LOCAL TIME 930 DATE 77/ 5/ 2 WIND = knots DIR = DEPTH=1913M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	13.298	35.082	26.397	162.0	0.000	1502.0	0.0
5	13.239	35.073	26.402	161.7	.008	1501.8	5.0
10	12.656	35.075	26.520	150.6	.016	1500.0	10.1
15	12.859	35.340	26.685	135.0	.023	1501.1	15.1
20	13.301	35.569	26.773	126.8	.030	1502.9	20.1
25	13.664	35.695	26.796	124.8	.036	1504.4	25.2
30	13.478	35.770	26.893	115.8	.042	1503.9	30.2
35	13.659	35.829	26.901	115.2	.048	1504.7	35.2
40	13.818	35.887	26.912	114.3	.054	1505.3	40.3
45	13.874	35.903	26.912	114.4	.060	1505.6	45.3
50	13.612	35.850	26.926	113.2	.065	1504.8	50.3
55	13.445	35.825	26.942	111.8	.071	1504.3	55.4
60	13.365	35.796	26.936	112.6	.077	1504.1	60.4
65	13.180	35.748	26.937	112.6	.082	1503.5	65.4
70	12.912	35.715	26.966	109.9	.088	1502.6	70.5
75	12.894	35.742	26.990	107.8	.093	1502.7	75.5
80	12.795	35.721	26.994	107.5	.099	1502.4	80.5
85	12.601	35.686	27.005	106.5	.104	1501.8	85.6
90	12.556	35.672	27.003	106.8	.109	1501.7	90.6
95	11.969	35.585	27.050	102.5	.115	1499.7	95.6
100	11.166	35.387	27.047	102.7	.120	1496.7	100.7
105	10.994	35.349	27.049	102.6	.125	1496.1	105.7
110	11.039	35.378	27.063	101.4	.130	1496.4	110.7
115	11.568	35.530	27.084	99.7	.135	1498.5	115.8
120	11.571	35.511	27.068	101.3	.140	1498.6	120.8
125	11.554	35.515	27.075	100.8	.145	1498.6	125.9
130	11.543	35.538	27.095	99.0	.150	1498.7	130.9
135	11.529	35.536	27.096	99.1	.155	1498.7	135.9
140	11.473	35.486	27.067	101.9	.161	1498.6	141.0
145	11.386	35.497	27.092	99.6	.166	1498.3	146.0
150	11.474	35.526	27.098	99.2	.171	1498.8	151.0
155	11.430	35.513	27.097	99.5	.176	1498.7	156.1
160	11.393	35.512	27.102	99.0	.181	1498.6	161.1
165	11.262	35.484	27.105	98.8	.186	1498.2	166.1
170	11.219	35.482	27.111	98.4	.191	1498.1	171.2
175	11.138	35.468	27.115	98.1	.195	1497.9	176.2
180	11.059	35.456	27.121	97.7	.200	1497.7	181.3
185	10.962	35.439	27.125	97.3	.205	1497.4	186.3
190	10.814	35.415	27.133	96.7	.210	1497.0	191.3
195	10.729	35.402	27.138	96.2	.215	1496.7	196.4
200	10.670	35.393	27.142	96.0	.220	1496.6	201.4
225	9.917	35.280	27.186	92.1	.244	1494.1	226.6
250	9.274	35.203	27.233	87.8	.266	1492.1	251.8
275	8.952	35.177	27.265	85.1	.288	1491.3	277.0
300	8.613	35.156	27.303	81.9	.309	1490.4	302.2
325	8.173	35.138	27.356	77.0	.329	1489.1	327.4
350	7.756	35.116	27.402	72.9	.348	1487.9	352.7
375	7.408	35.104	27.443	69.1	.366	1486.9	377.9
400	6.927	35.076	27.489	64.8	.383	1485.4	403.1
425	6.497	35.059	27.534	60.6	.399	1484.1	428.3
450	6.006	35.037	27.582	56.0	.413	1482.6	453.5
461	6.004	35.032	27.577	56.6	.420	1482.7	465.0

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
0	13.560	35.070	6.86					
101		35.518						
247		35.206	3.55					
491	5.700	35.026						
745		35.002	5.19					
989		34.977						
1237	3.940	34.968	5.53					
1479		34.980						
1722		34.969	6.17					
1908	3.520	34.965	6.11					

SIGMA-T

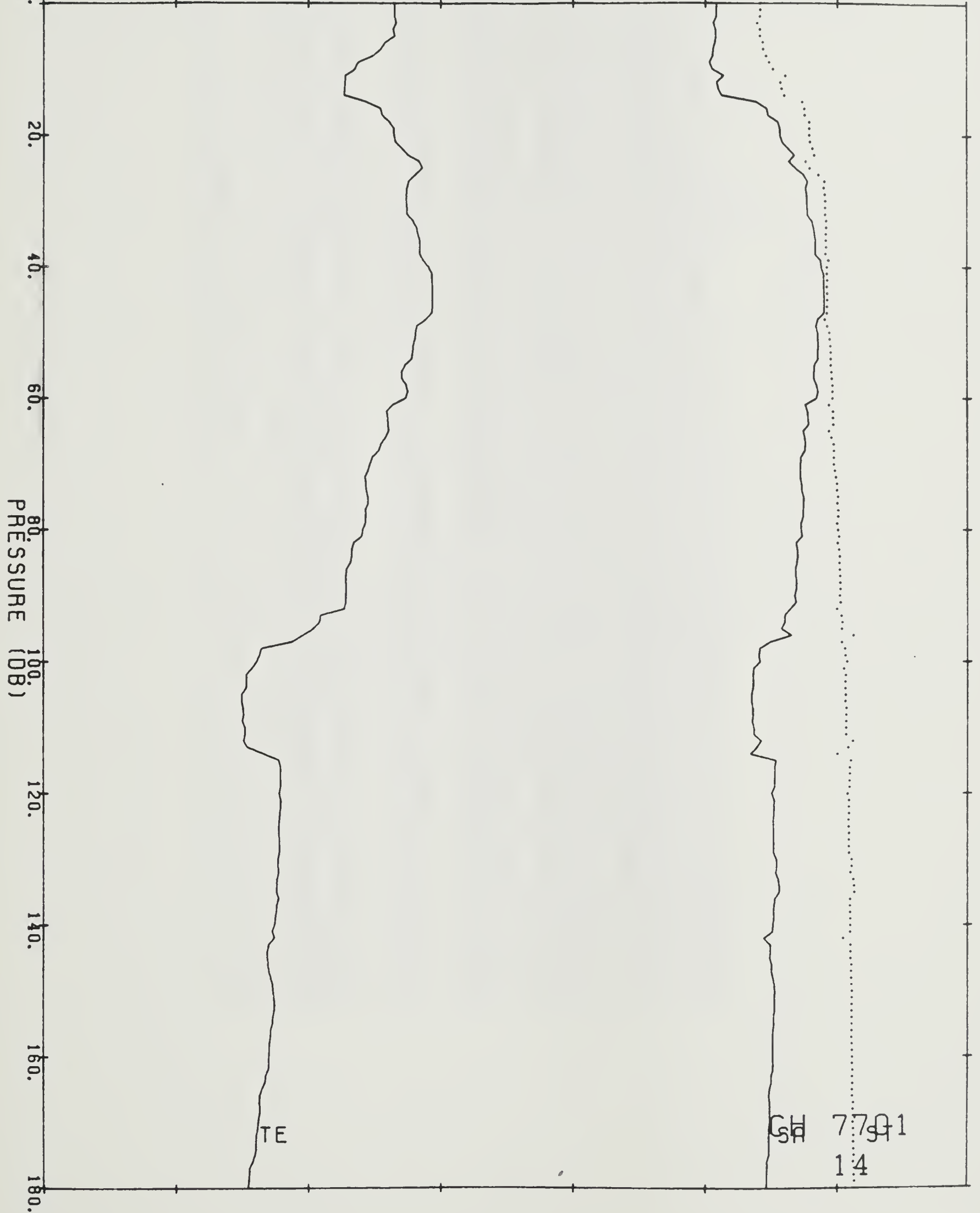
21. 22. 23. 24. 25. 26. 27. 28.

SALINITY (PPT)

30. 31. 32. 33. 34. 35. 36. 37.

TEMPERATURE (DEG C)

8. 10. 12. 14. 16. 18. 20. 22.



SHIP CH CRUISE 77-01 STATION 15 POSITION 39 16.40 N 72 .90 W
 LOCAL TIME 1840 DATE 77/ 5/ 2 WIND = knots DIR = DEPTH=1913M

DTH	TEM	SAL	SGT	AND	DYN	SVL	PRS
0	11.814	34.415	26.171	183.5	0.000	1496.1	0.0
5	11.813	34.410	26.167	184.0	.009	1496.2	5.0
10	11.801	34.424	26.180	182.8	.018	1496.2	10.1
15	11.279	34.564	26.386	163.4	.027	1494.7	15.1
20	10.749	34.602	26.511	151.6	.035	1492.9	20.1
25	10.656	34.643	26.560	147.1	.043	1492.7	25.2
30	10.442	35.282	27.095	96.4	.049	1492.8	30.2
35	12.949	35.613	26.879	117.2	.054	1502.0	35.2
40	13.351	35.777	26.924	113.1	.060	1503.7	40.3
45	12.601	35.686	27.005	105.5	.065	1501.1	45.3
50	12.768	35.725	27.002	105.9	.071	1501.8	50.3
55	12.652	35.698	27.004	105.9	.076	1501.5	55.4
60	12.602	35.683	27.003	106.1	.081	1501.4	60.4
65	12.543	35.696	27.024	104.2	.087	1501.3	65.4
70	12.475	35.687	27.031	103.7	.092	1501.1	70.5
75	12.163	35.811	27.188	88.9	.097	1500.3	75.5
80	12.271	35.670	27.058	101.4	.102	1500.6	80.5
85	12.270	35.671	27.058	101.5	.107	1500.6	85.6
90	12.228	35.666	27.063	101.2	.112	1500.6	90.6
95	12.124	35.641	27.064	101.2	.117	1500.3	95.6
100	11.943	35.604	27.070	100.7	.122	1499.7	100.7
105	11.926	35.603	27.072	100.6	.127	1499.7	105.7
110	11.797	35.590	27.087	99.3	.132	1499.3	110.7
115	11.793	35.577	27.078	100.3	.137	1499.4	115.8
120	11.773	35.580	27.084	99.9	.142	1499.4	120.8
125	11.802	35.592	27.087	99.7	.147	1499.6	125.9
130	11.832	35.603	27.091	99.5	.152	1499.8	130.9
135	11.817	35.598	27.089	99.8	.157	1499.8	135.9
140	11.814	35.597	27.089	99.9	.162	1499.9	141.0
145	11.813	35.596	27.089	100.1	.167	1500.0	146.0
150	11.750	35.579	27.087	100.3	.172	1499.8	151.0
155	11.540	35.538	27.095	99.6	.177	1499.1	156.1
160	11.386	35.505	27.098	99.4	.182	1498.6	161.1
165	11.361	35.509	27.106	98.8	.187	1498.6	166.1
170	11.200	35.476	27.110	98.4	.192	1498.1	171.2
175	11.199	35.478	27.112	98.4	.197	1498.2	176.2
180	10.922	35.412	27.111	98.5	.202	1497.2	181.3
185	10.882	35.413	27.120	97.8	.207	1497.1	186.3
190	10.928	35.436	27.129	97.0	.212	1497.4	191.3
195	10.948	35.446	27.133	96.8	.217	1497.6	196.4
200	10.976	35.458	27.138	96.5	.222	1497.8	201.4
225	10.585	35.400	27.163	94.6	.246	1496.7	226.6
250	9.786	35.274	27.203	91.0	.269	1494.1	251.8
275	9.124	35.203	27.258	86.0	.292	1491.9	277.0
300	8.385	35.128	27.316	80.5	.313	1489.5	302.2
325	7.888	35.102	27.371	75.5	.332	1488.0	327.4
350	7.489	35.086	27.417	71.2	.351	1486.8	352.6
375	7.216	35.076	27.449	68.5	.368	1486.2	377.9
400	6.850	35.064	27.490	64.7	.385	1485.1	403.1
425	6.576	35.053	27.519	62.1	.401	1484.4	428.3
450	6.192	35.040	27.560	58.3	.416	1483.3	453.5
475	5.828	35.029	27.598	54.7	.431	1482.2	478.8
500	5.487	35.016	27.630	51.6	.444	1481.3	504.0
600	4.915	34.995	27.681	47.3	.494	1480.5	605.0
700	4.550	34.985	27.715	44.7	.540	1480.7	706.1
800	4.359	34.976	27.729	44.1	.585	1481.5	807.2
900	4.280	34.973	27.735	44.4	.630	1482.9	908.3
1000	4.156	34.972	27.747	43.9	.675	1484.0	1009.5
1100	4.050	34.966	27.754	44.0	.719	1485.2	1110.7
1200	3.962	34.962	27.760	44.1	.764	1486.5	1212.0
1300	3.903	34.962	27.766	44.3	.809	1488.0	1313.3
1400	3.898	34.963	27.768	45.1	.854	1489.6	1414.7
1485	3.869	34.966	27.773	45.2	.893	1490.9	1501.0

SIGMA-T

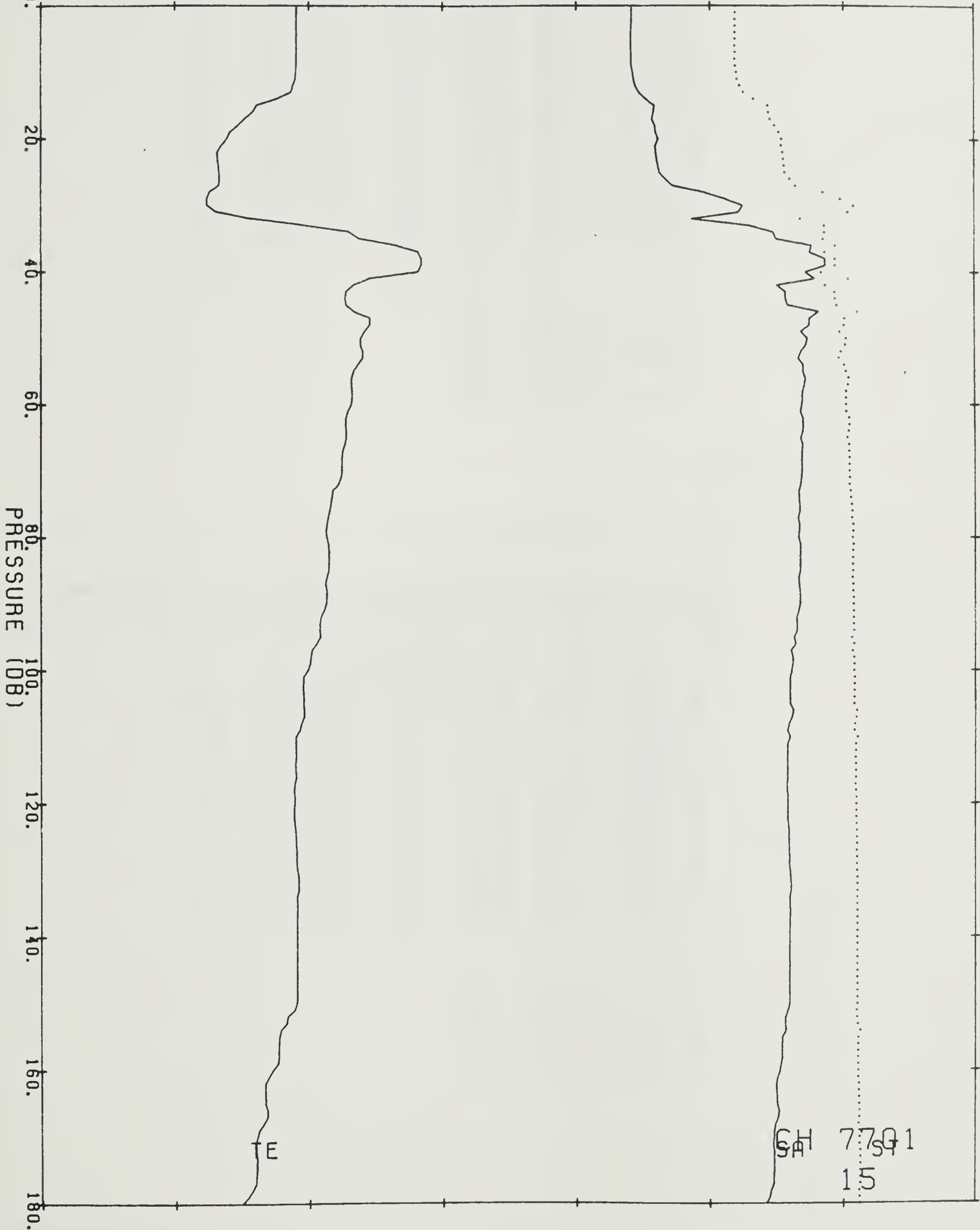
21. 22. 23. 24. 25. 26. 27. 28.

SALINITY (PPT)

30. 31. 32. 33. 34. 35. 36. 37.

TEMPERATURE (DEG C)

8. 10. 12. 14. 16. 18. 20. 22.



SHIP CH CRUISE 77-01 STATION 16 POSITION 39 41.10 N 72 37.40 W
 LOCAL TIME 1537 DATE 77/ 5/ 3 WIND = knots DIR = DEPTH= 79M

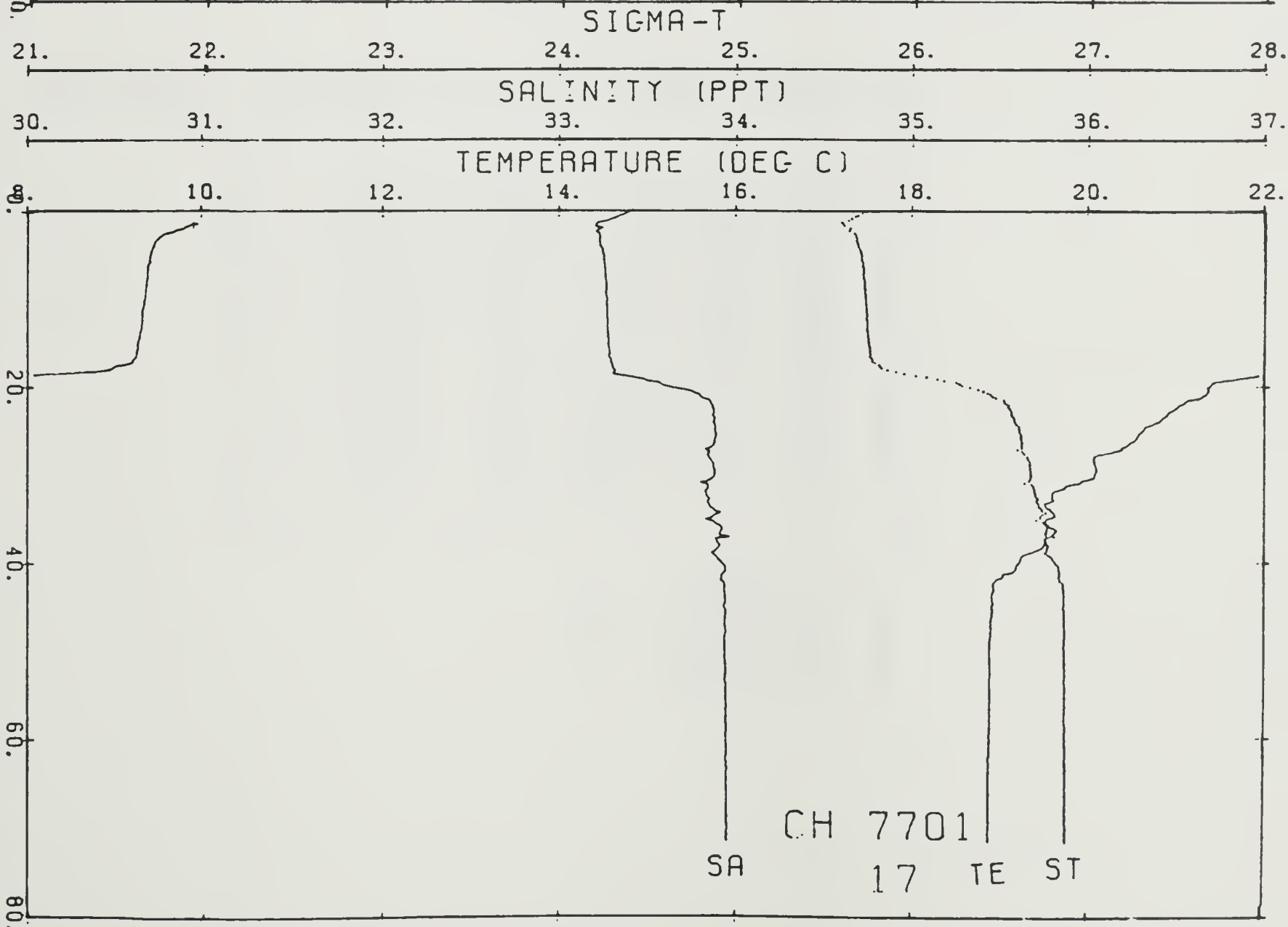
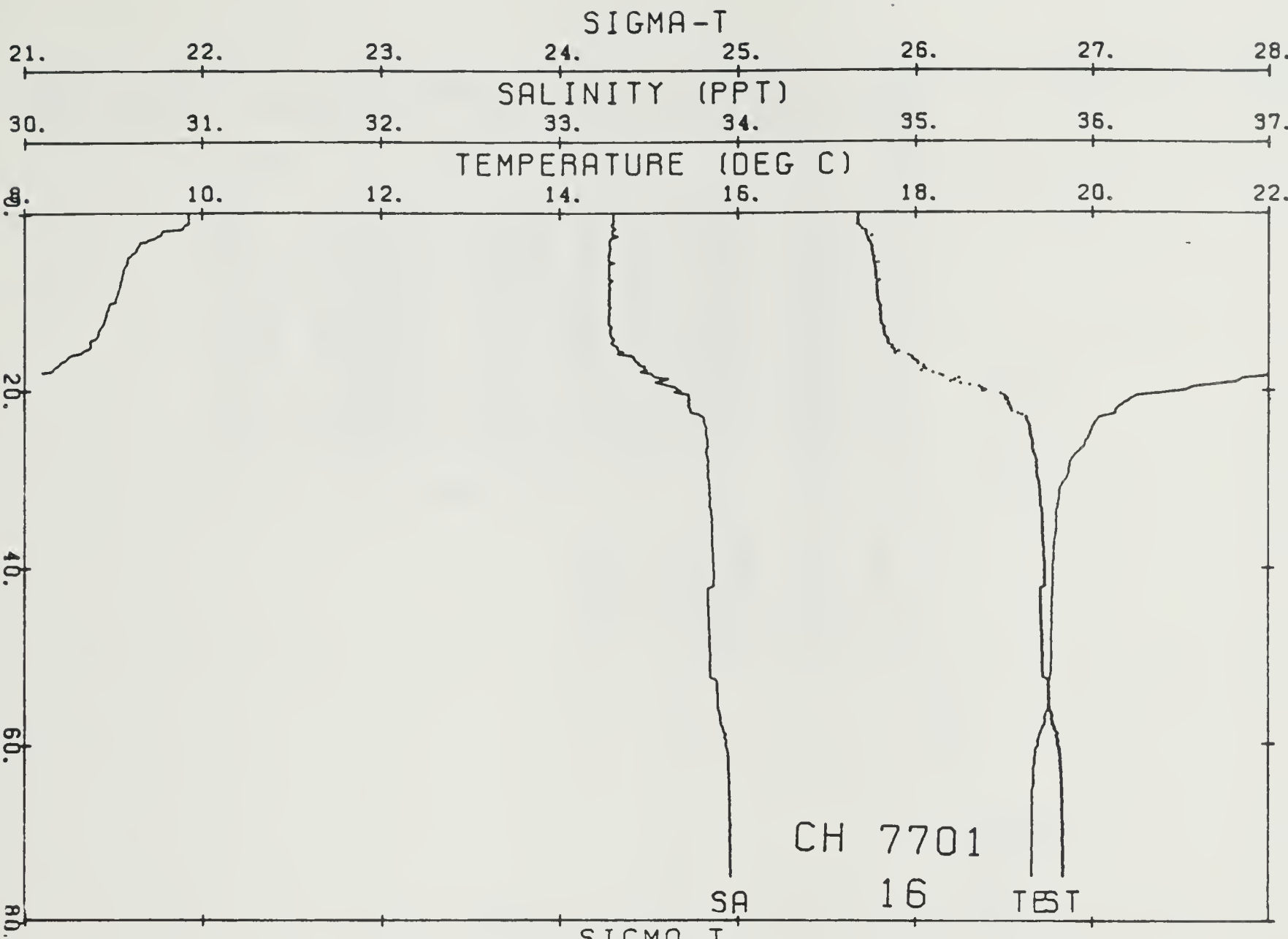
DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	9.849	33.302	25.652	232.8	0.000	1487.7	0.0
5	9.162	33.275	25.742	224.2	.011	1485.2	5.0
10	9.023	33.283	25.771	221.6	.023	1484.7	10.0
15	8.743	33.329	25.850	214.2	.033	1483.8	15.0
20	6.937	33.639	26.356	166.2	.043	1477.3	20.1
25	5.959	33.827	26.631	140.1	.051	1473.8	25.1
30	5.679	33.841	26.677	135.8	.058	1472.7	30.2
35	5.595	33.858	26.701	133.6	.065	1472.5	35.2
40	5.558	33.867	26.712	132.6	.071	1472.4	40.2
45	5.547	33.839	26.691	134.6	.078	1472.4	45.2
50	5.544	33.850	26.700	133.8	.085	1472.5	50.3
55	5.511	33.892	26.737	130.3	.092	1472.5	55.4
60	5.368	33.946	26.797	124.7	.098	1472.1	60.4
65	5.321	33.958	26.812	123.3	.104	1472.0	65.4
70	5.319	33.961	26.814	123.2	.110	1472.1	70.4
75	5.317	33.963	26.816	123.0	.116	1472.2	75.0

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
0	9.750	33.337	7.25					
9		33.299	7.10					
18	7.240	33.725	7.92					
39	5.560	33.847	6.70					
60		33.904	6.33					
73	5.320	33.924	5.96					

SHIP CH CRUISE 77-01 STATION 17 POSITION 39 39.40 N 72 42.50 W
 LOCAL TIME 1830 DATE 77/ 5/ 3 WIND = knots DIR = DEPTH= 77M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	9.950	33.417	25.724	225.9	0.000	1488.2	0.0
5	9.391	33.251	25.687	229.5	.011	1486.0	5.0
10	9.323	33.269	25.712	227.3	.023	1485.8	10.0
15	9.245	33.277	25.731	225.5	.034	1485.6	15.0
20	7.357	33.650	26.306	170.9	.044	1479.0	20.1
25	6.611	33.879	26.589	144.1	.052	1476.4	25.1
30	6.078	33.874	26.653	138.1	.059	1474.4	30.2
35	5.517	33.827	26.685	135.1	.066	1472.1	35.2
40	5.209	33.919	26.794	124.7	.073	1471.1	40.2
45	4.905	33.930	26.837	120.7	.079	1469.9	45.2
50	4.882	33.935	26.845	120.0	.085	1469.9	50.3
55	4.885	33.942	26.850	119.6	.091	1470.0	55.4
60	4.881	33.946	26.853	119.3	.097	1470.1	60.4
65	4.871	33.946	26.854	119.3	.103	1470.1	65.4
70	4.872	33.949	26.857	119.1	.109	1470.2	70.4
72	4.871	33.950	26.858	119.0	.111	1470.3	72.0

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
0	9.780	33.148	7.25					
9		33.261	7.28					
19	7.370	33.485	7.85					
29	5.590	33.874	7.40					
50		33.912	5.87					
70	4.870	33.910	5.96					



SHIP CH CRUISE 77-01 STATION 18 POSITION 39 52.30 N 72 40.19 W
 LOCAL TIME 2104 DATE 77/ 5/ 3 WIND * knots DIR * DEPTH= 58M

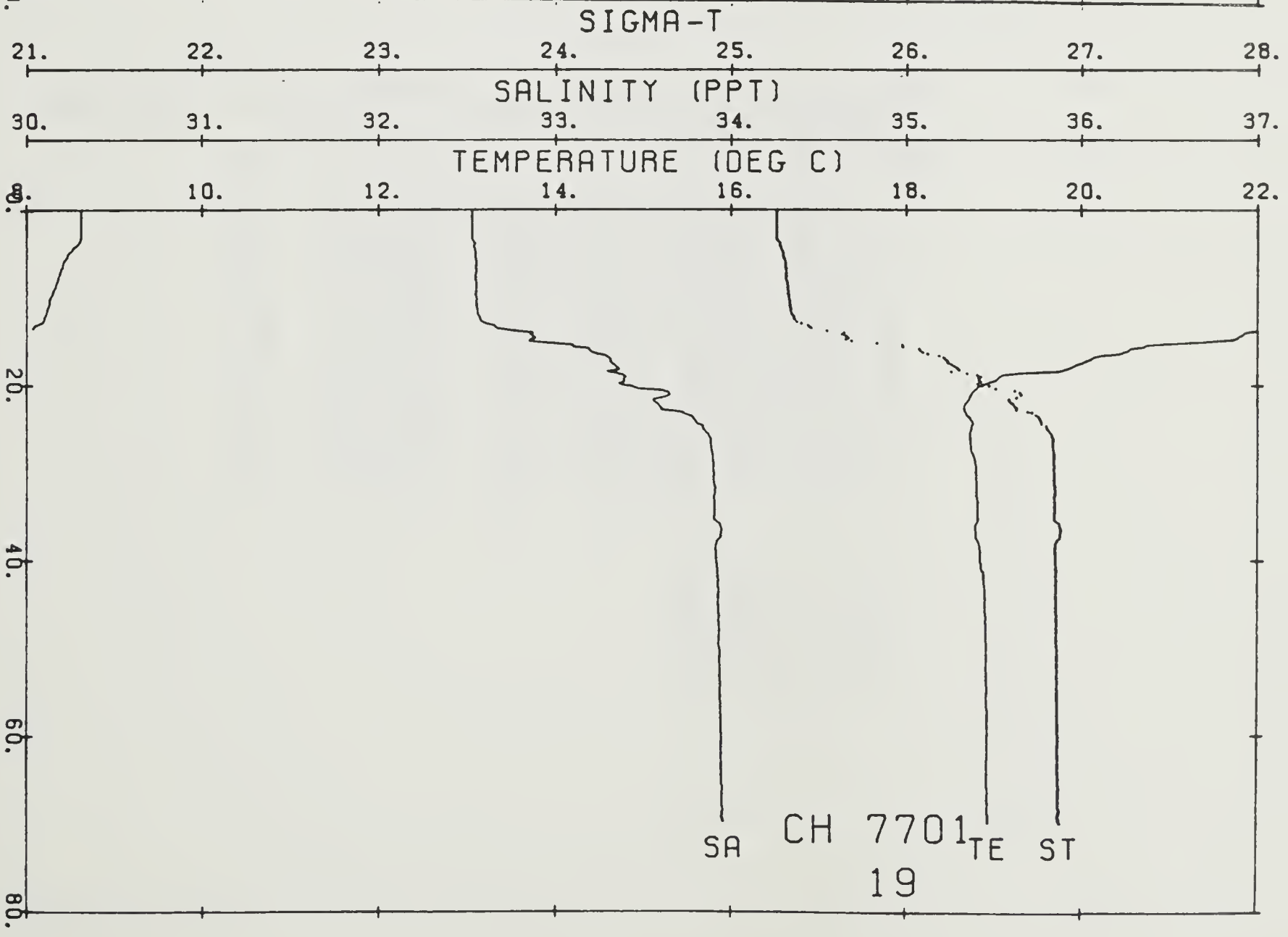
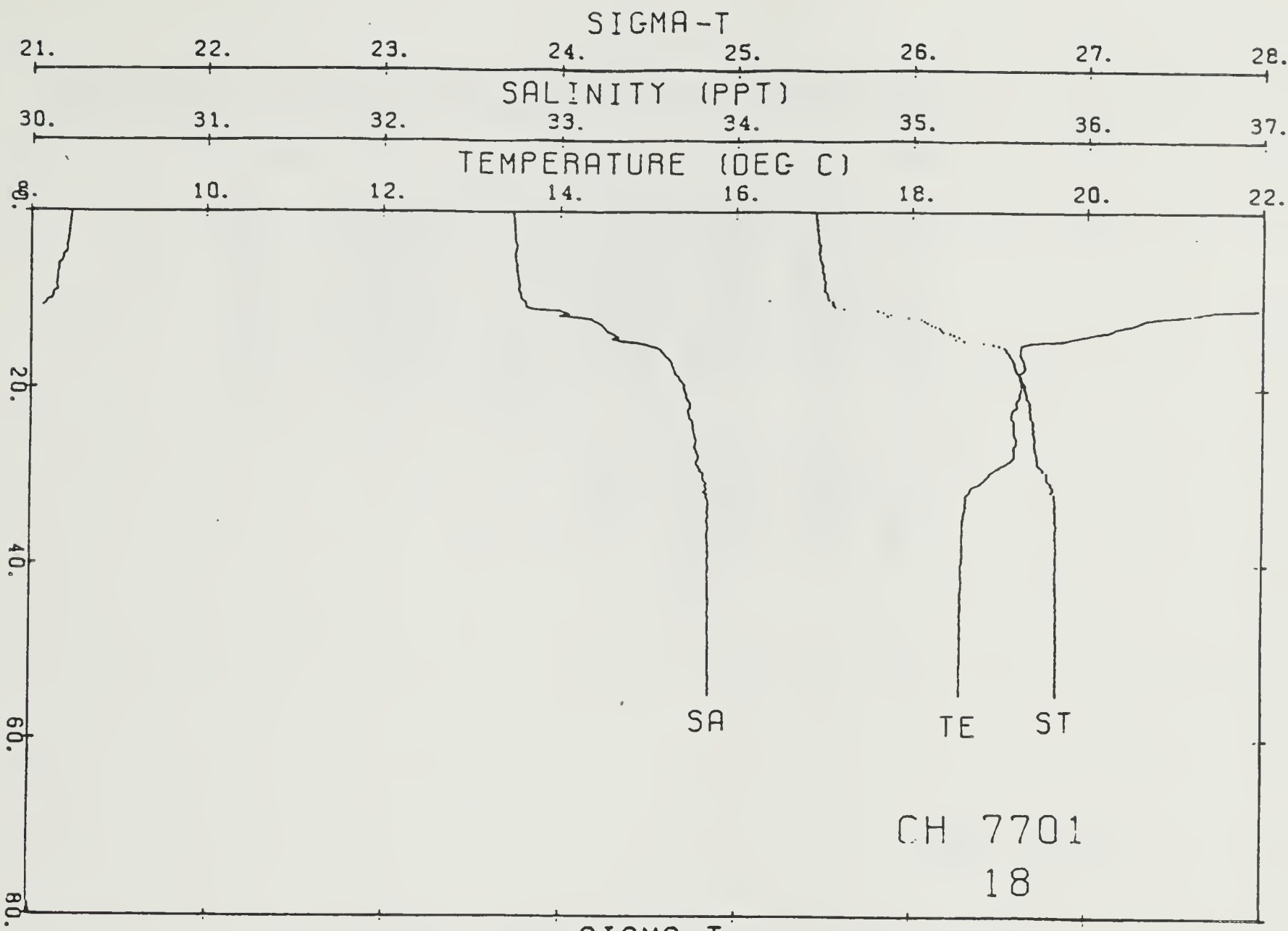
DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	8.455	32.728	25.423	254.5	0.000	1481.7	0.0
5	8.357	32.743	25.450	252.1	.013	1481.4	5.0
10	8.217	32.782	25.500	247.3	.025	1481.0	10.0
15	5.272	33.476	26.436	158.4	.035	1470.3	15.0
20	5.233	33.704	26.621	140.9	.043	1470.6	20.1
25	5.167	33.760	26.673	136.0	.050	1470.5	25.1
30	4.841	33.809	26.749	128.9	.057	1469.3	30.2
35	4.581	33.835	26.799	124.2	.063	1468.3	35.2
40	4.567	33.839	26.803	123.8	.069	1468.3	40.2
45	4.563	33.843	26.807	123.6	.075	1468.4	45.2
50	4.558	33.845	26.809	123.4	.082	1468.5	50.3
55	4.556	33.846	26.810	123.3	.087	1468.5	55.0

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
0	8.540	32.888						
8		32.812	7.66					
19	5.240	33.601	8.20					
29	5.010	33.756	7.81					
39		33.817	6.36					
53	4.550	33.822						

SHIP CH CRUISE 77-01 STATION 19 POSITION 39 46.40 N 72 57.40 W
 LOCAL TIME 2340 DATE 77/ 5/ 3 WIND = knots DIR = DEPTH= 73M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	8.629	32.525	25.238	272.2	0.000	1482.1	0.0
5	8.476	32.546	25.277	268.5	.014	1481.6	5.0
10	8.271	32.549	25.310	265.4	.027	1480.9	10.0
15	7.423	32.848	25.666	231.6	.039	1478.1	15.0
20	4.820	33.432	26.452	156.9	.049	1468.5	20.1
25	4.739	33.848	26.792	124.8	.056	1468.8	25.1
30	4.804	33.902	26.827	121.5	.063	1469.2	30.2
35	4.823	33.906	26.828	121.4	.069	1469.4	35.2
40	4.854	33.917	26.833	121.0	.075	1469.6	40.2
45	4.905	33.930	26.837	120.7	.081	1469.9	45.2
50	4.921	33.937	26.842	120.3	.087	1470.1	50.3
55	4.922	33.938	26.842	120.3	.093	1470.2	55.4
60	4.929	33.946	26.848	119.9	.099	1470.3	60.4
65	4.926	33.946	26.848	119.8	.105	1470.4	65.4
70	4.938	33.958	26.856	119.1	.110	1470.5	70.0

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
0	8.950	32.547						
9		32.544	7.52					
19	5.310	33.281	8.24					
30	4.760	33.864	6.17					
48		33.899	6.15					
69	4.950	33.922						



SHIP CH CRUISE 77-01 STATION 20 POSITION 39 43.10 N 73 13.20 W
 LOCAL TIME 201 DATE 77/ 5/ 4 WIND = knots DIR = DEPTH= 40M

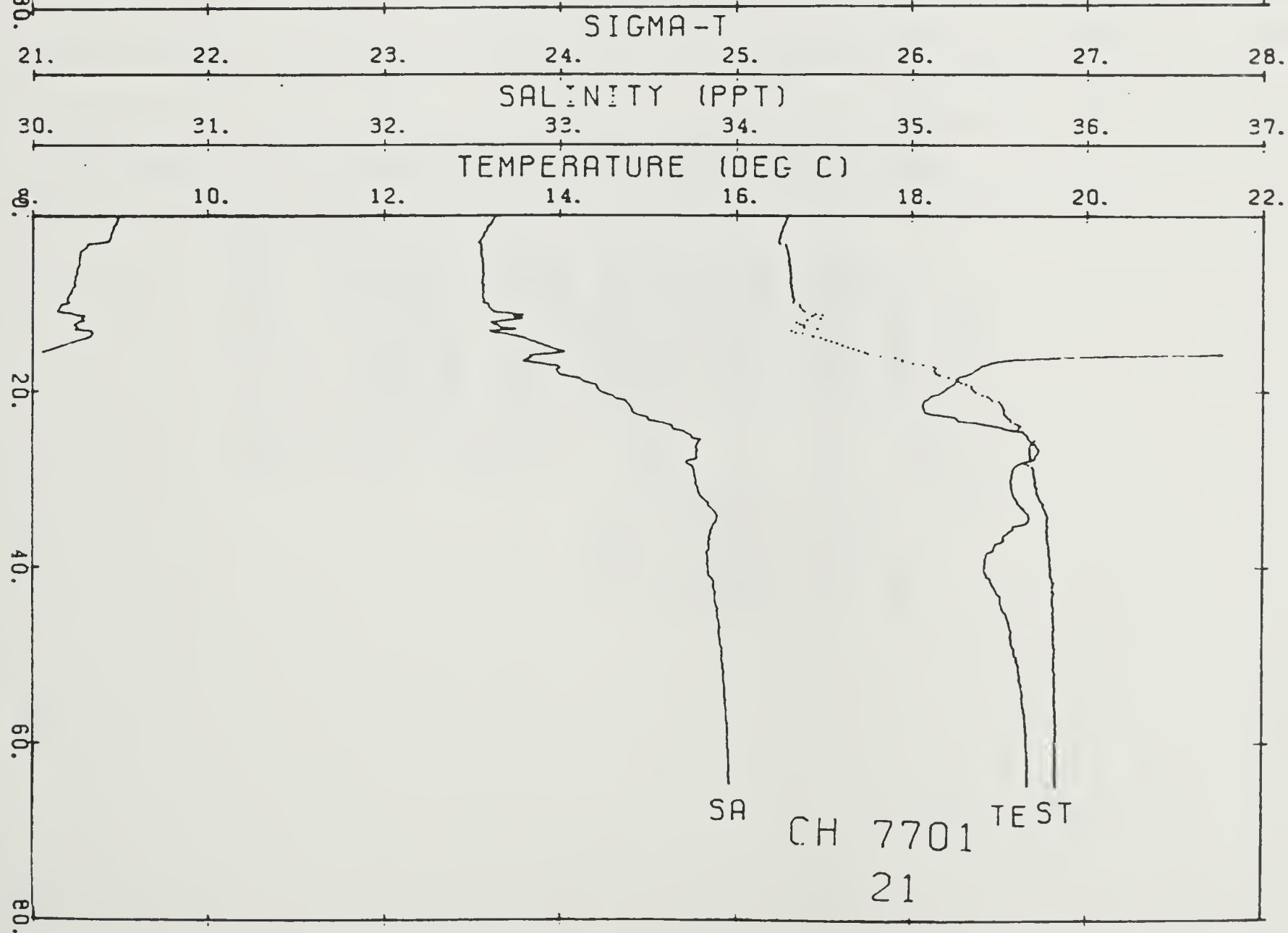
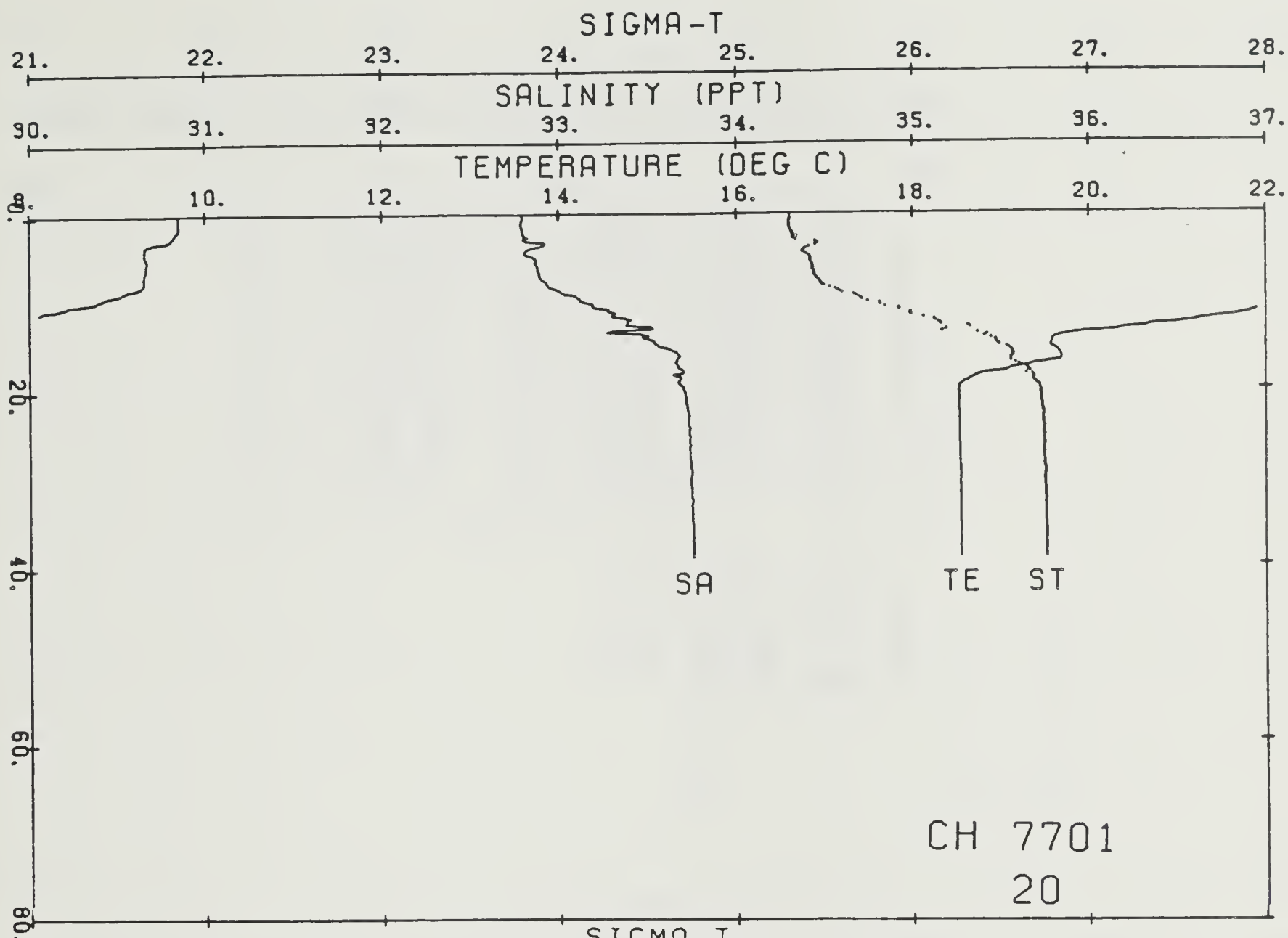
DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	9.699	32.794	25.280	268.1	0.000	1486.5	0.0
5	9.338	32.869	25.397	257.1	.013	1485.3	5.0
10	8.629	33.149	25.727	225.8	.025	1483.1	10.0
15	5.560	33.561	26.470	155.2	.035	1471.6	15.0
20	4.516	33.710	26.706	132.8	.042	1467.6	20.2
25	4.528	33.741	26.729	130.7	.049	1467.8	25.2
30	4.538	33.741	26.728	130.8	.055	1467.9	30.2
35	4.543	33.753	26.737	130.0	.062	1468.0	35.2
39	4.544	33.753	26.738	130.0	.067	1468.1	39.0

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
0	9.650	32.806	7.28					
6	9.380	32.885	7.31					
21	4.550	32.878	7.28					
29		33.702	6.51					
36	4.550	33.718						

SHIP CH CRUISE 77-01 STATION 21 POSITION 39 55.20 N 73 12.80 W
 LOCAL TIME 429 DATE 77/ 5/ 4 WIND = knots DIR = DEPTH= 69M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	8.989	32.638	25.271	269.0	0.000	1483.6	0.0
5	8.523	32.559	25.280	268.2	.013	1481.8	5.0
10	8.413	32.561	25.299	266.5	.027	1481.5	10.0
15	8.295	32.940	25.613	236.7	.039	1481.6	15.0
20	4.354	33.231	26.343	167.2	.050	1466.3	20.1
25	5.322	33.739	26.639	139.3	.057	1471.1	25.1
30	5.127	33.767	26.683	135.1	.064	1470.4	30.2
35	5.250	33.869	26.750	128.9	.071	1471.1	35.2
40	4.830	33.837	26.773	126.8	.077	1469.4	40.2
45	5.060	33.885	26.785	125.7	.084	1470.5	45.2
50	5.201	33.914	26.791	125.1	.090	1471.2	50.3
55	5.272	33.935	26.799	124.4	.096	1471.6	55.4
60	5.315	33.949	26.806	123.9	.103	1471.9	60.4
65	5.333	33.960	26.812	123.3	.108	1472.1	65.0

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
0	9.050	32.557						
17		33.198						
29	5.120	33.725						
40	5.170	33.874						
49		33.831						
64	5.330	33.915						



SHIP CH CRUISE 77-01 STATION 22 POSITION 40 11.60 N 73 43.90 W
 LOCAL TIME 1743 DATE 77/ 5/ 4 WIND = knots DIR = DEPTH= 64M

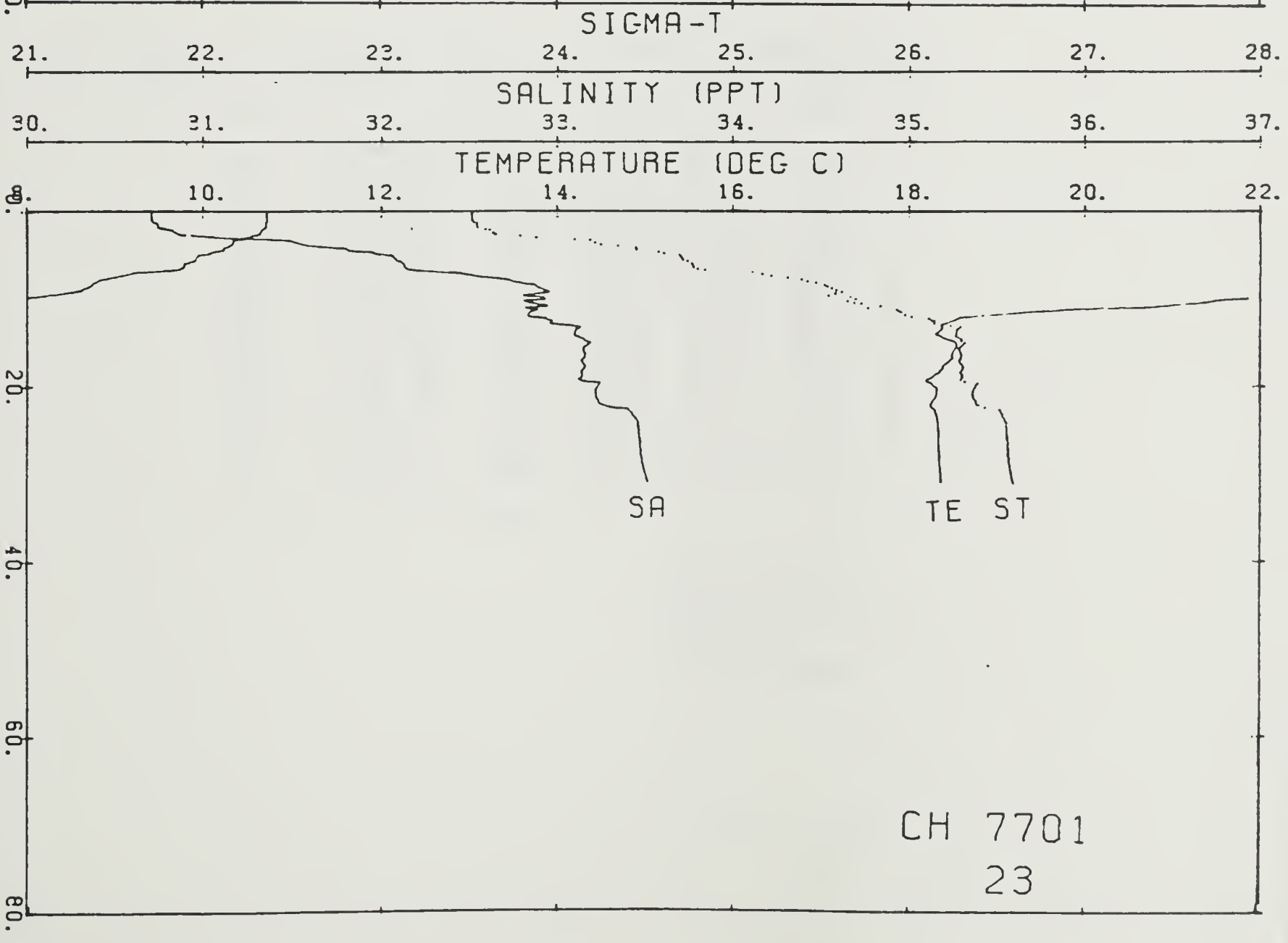
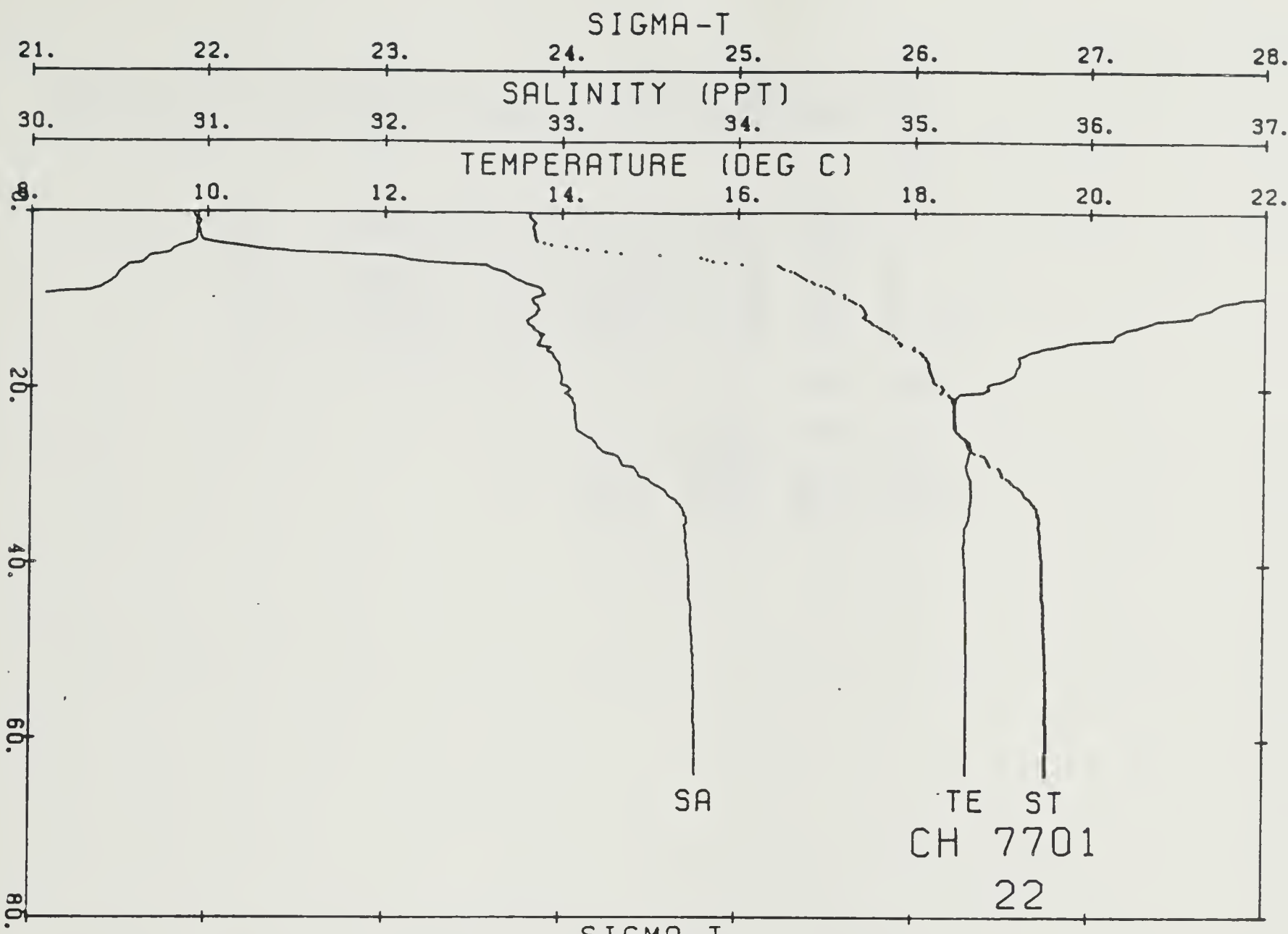
DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	9.898	30.923	23.787	410.3	0.000	1484.8	0.0
5	9.332	32.057	24.763	317.4	.018	1484.2	5.0
10	7.652	32.840	25.628	235.2	.032	1478.9	10.0
15	5.686	32.862	25.902	209.2	.043	1471.2	15.0
20	4.822	33.038	26.140	186.6	.053	1468.0	20.2
25	4.532	33.137	26.249	176.2	.062	1467.0	25.2
30	4.654	33.499	26.524	150.2	.071	1468.1	30.2
35	4.627	33.714	26.697	133.8	.078	1468.3	35.2
40	4.598	33.729	26.712	132.4	.084	1468.3	40.2
45	4.612	33.744	26.723	131.5	.091	1468.5	45.2
50	4.618	33.758	26.733	130.5	.098	1468.6	50.4
55	4.618	33.765	26.739	130.1	.104	1468.7	55.4
60	4.621	33.770	26.742	129.8	.111	1468.8	60.4
64	4.623	33.772	26.744	129.7	.115	1468.9	64.0

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
0	9.900	30.930	8.31					
9		32.889	6.92					
19	4.780							
30	4.680	33.483	6.30					
40		33.701	6.34					
63	4.620	33.741						

SHIP CH CRUISE 77-01 STATION 23 POSITION 40 3.40 N 73 38.19 W
 LOCAL TIME 2045 DATE 77/ 5/ 4 WIND = knots DIR = DEPTH= 32M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	10.712	30.711	23.488	438.9	0.000	1487.5	0.0
5	9.938	32.064	24.671	326.2	.019	1486.5	5.0
10	7.862	32.934	25.672	231.0	.033	1479.9	10.0
15	4.535	33.190	26.291	172.2	.043	1466.9	15.0
20	4.316	33.226	26.343	167.2	.052	1466.1	20.1
25	4.338	33.464	26.530	149.6	.060	1466.6	25.1
30	4.361	33.504	26.559	146.9	.067	1466.9	30.2
31	4.367	33.514	26.566	146.2	.068	1466.9	31.0

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
0	10.680	30.650						
3		31.618	7.58					
8	8.570	32.881	7.12					
14	4.610	33.146	6.67					
19		33.198	6.47					
31	4.370	33.492						



SHIP CH CRUISE 77-01 STATION 24 POSITION 39 54.00 N 73 38.69 W
 LOCAL TIME 2303 DATE 77/ 5/ 4 WIND = knots DIR = DEPTH= 30M

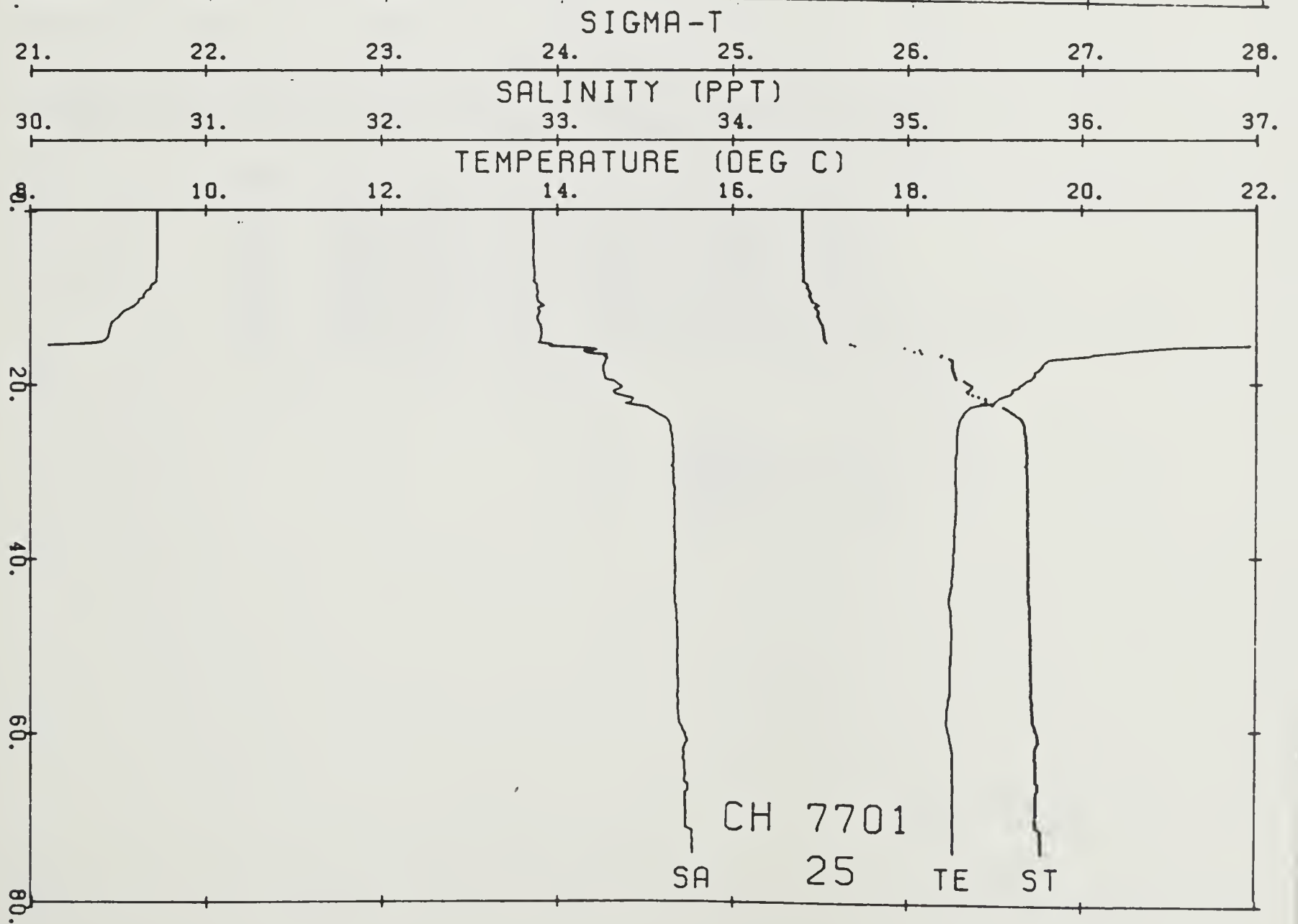
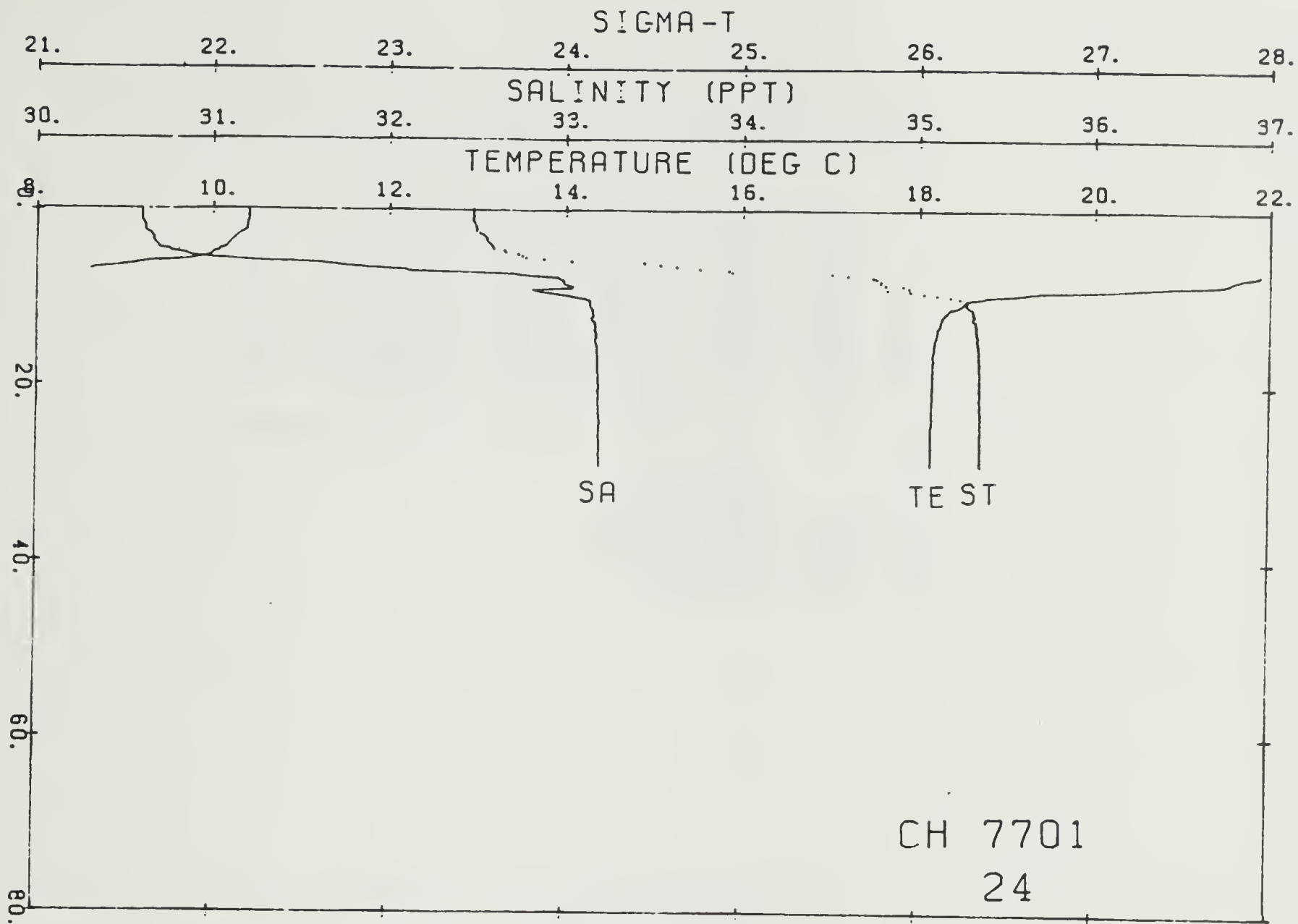
DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	10.408	30.595	23.448	442.7	0.000	1486.3	0.0
5	10.007	30.839	23.704	418.4	.022	1485.2	5.0
10	4.690	33.106	26.208	180.0	.036	1467.4	10.0
15	4.176	33.173	26.315	169.9	.045	1465.4	15.0
20	4.154	33.187	26.328	168.7	.054	1465.4	20.1
25	4.140	33.190	26.332	168.3	.062	1465.4	25.1
29	4.142	33.194	26.335	168.0	.069	1465.5	29.0

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
0	10.390	30.615						
3		30.698	7.73					
8	5.500	33.061	6.94					
20	4.130	33.179	5.84					
28	4.140	33.187	5.92					

SHIP CH CRUISE 77-01 STATION 25 POSITION 40 3.40 N 73 28.50 W
 LOCAL TIME 230 DATE 77/ 5/ 5 WIND = knots DIR = DEPTH= 82M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	9.446	32.862	25.374	259.2	0.000	1485.6	0.0
5	9.447	32.865	25.376	259.1	.013	1485.7	5.0
10	9.284	32.889	25.421	254.9	.026	1485.2	10.0
15	8.808	32.905	25.508	246.7	.038	1483.5	15.0
20	5.279	33.367	26.349	166.8	.049	1470.3	20.2
25	4.581	33.649	26.651	138.1	.057	1467.9	25.2
30	4.556	33.665	26.666	136.7	.064	1467.9	30.2
35	4.559	33.673	26.672	136.2	.070	1468.0	35.2
40	4.534	33.675	26.677	135.8	.077	1468.0	40.2
45	4.485	33.677	26.683	135.2	.084	1467.8	45.2
50	4.514	33.693	26.693	134.4	.091	1468.1	50.4
55	4.503	33.694	26.695	134.2	.098	1468.1	55.4
60	4.493	33.736	26.729	131.0	.104	1468.2	60.4
65	4.537	33.730	26.720	131.9	.111	1468.5	65.4
70	4.538	33.737	26.725	131.5	.118	1468.6	70.4
74	4.540	33.778	26.757	128.5	.122	1468.7	74.0

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
0	9.450	32.819						
6		32.852						
20	4.900	33.292						
30	4.590	33.653						
48		33.679						
71	4.540	33.739						



SHIP CH CRUISE 77-01 STATION 26 POSITION 40 8.70 N 73 10.70 W
 LOCAL TIME 600 DATE 77/ 5/ 5 WIND = knots DIR = DEPTH= 40M

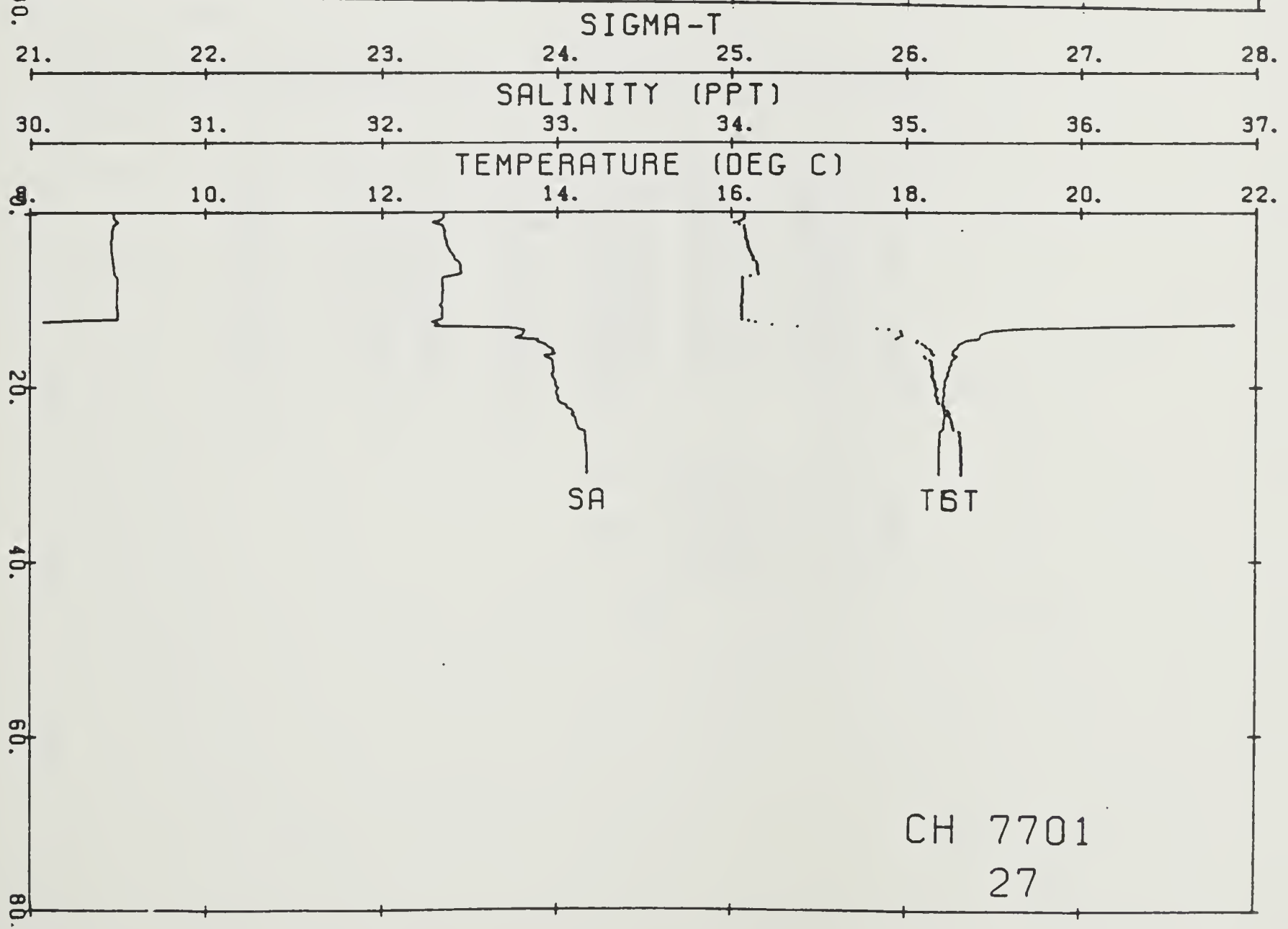
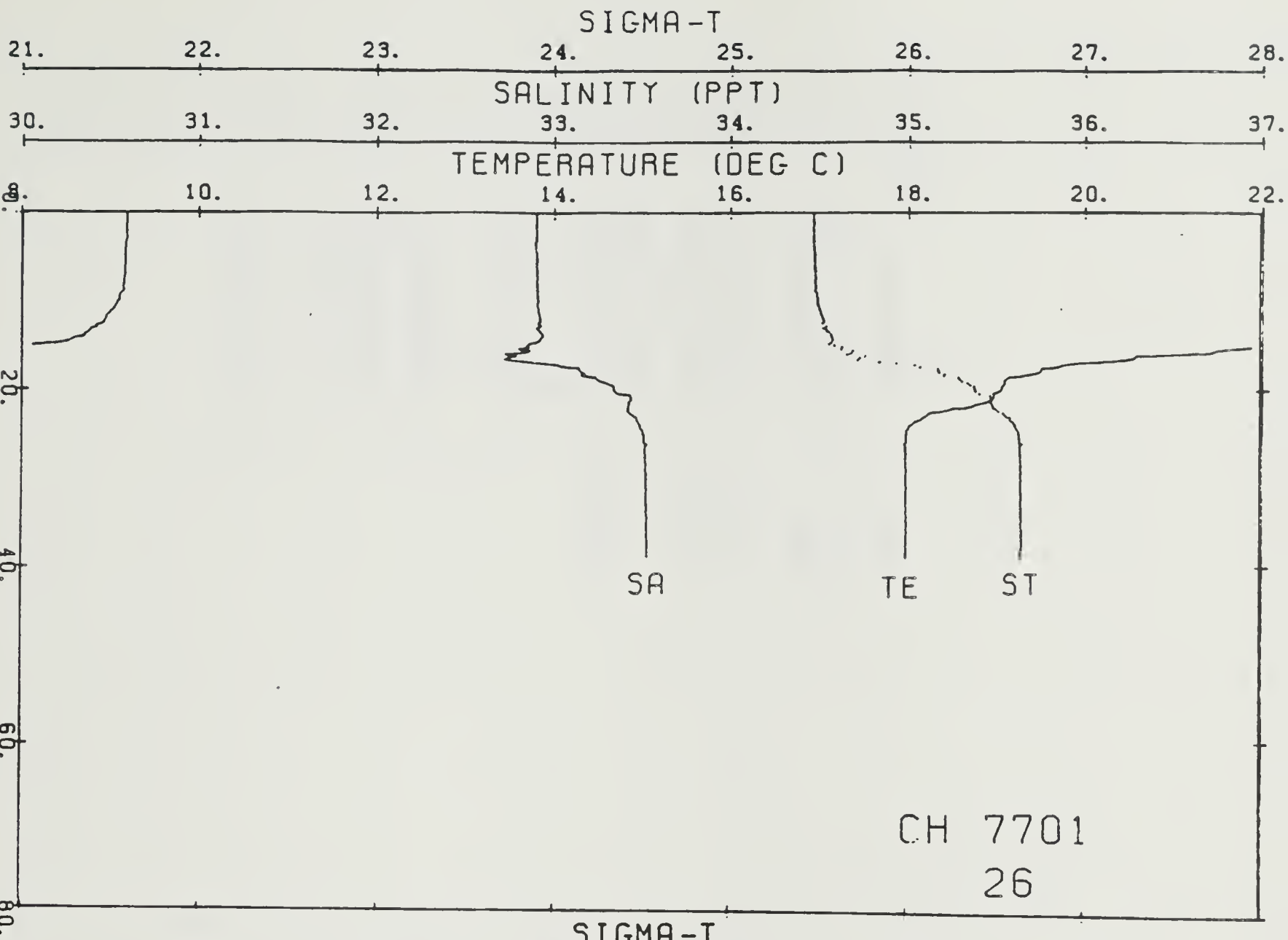
DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	9.184	32.900	25.446	252.4	0.000	1484.7	0.0
5	9.160	32.902	25.451	252.0	.013	1484.7	5.0
10	9.094	32.910	25.467	250.5	.025	1484.5	10.0
15	8.112	32.841	25.563	241.5	.037	1480.8	15.0
20	5.033	33.340	26.356	166.1	.048	1469.3	20.1
25	3.968	33.512	26.606	142.4	.056	1465.1	25.1
30	3.970	33.526	26.617	141.4	.063	1465.2	30.2
35	3.977	33.527	26.617	141.4	.070	1465.4	35.2
39	3.976	33.532	26.621	141.1	.075	1465.4	39.0

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
0		32.902						
2		32.862	6.95					
6	9.140	32.898	6.94					
24	4.040	33.506	6.07					
30		33.506	5.88					
37	3.980	33.507						

SHIP CH CRUISE 77-01 STATION 27 POSITION 40 16.20 N 73 29.50 W
 LOCAL TIME 930 DATE 77/ 5/ 5 WIND = knots DIR = DEPTH= 30M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	8.951	32.349	25.051	289.9	0.000	1483.1	0.0
5	8.933	32.411	25.102	285.1	.014	1483.2	5.0
10	8.986	32.341	25.039	291.2	.029	1483.4	10.0
15	4.600	32.914	26.065	193.6	.041	1466.8	15.0
20	4.420	33.007	26.158	184.8	.051	1466.3	20.1
25	4.380	33.162	26.285	172.8	.059	1466.4	25.1
30	4.369	33.172	26.295	171.9	.068	1466.4	30.0

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
0		32.322						
2	8.840	32.344						
19	4.400	33.012						
23		33.114						
28	4.370	33.140						



SHIP CH CRUISE 77-01 STATION 28 POSITION 40 22.50 N 73 2.10 W
 LOCAL TIME 1240 DATE 77/ 5/ 5 WIND = knots DIR = DEPTH= 37M

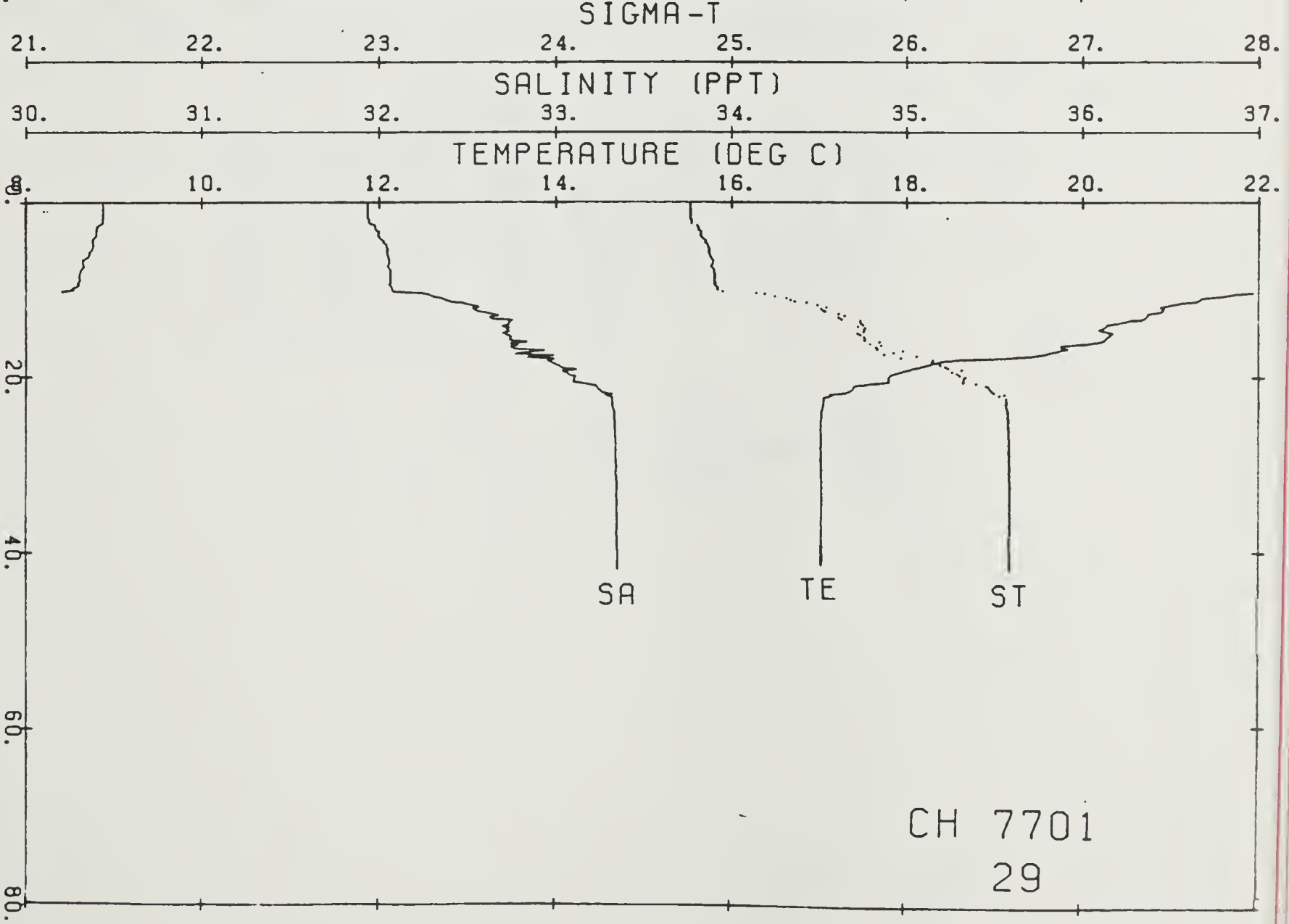
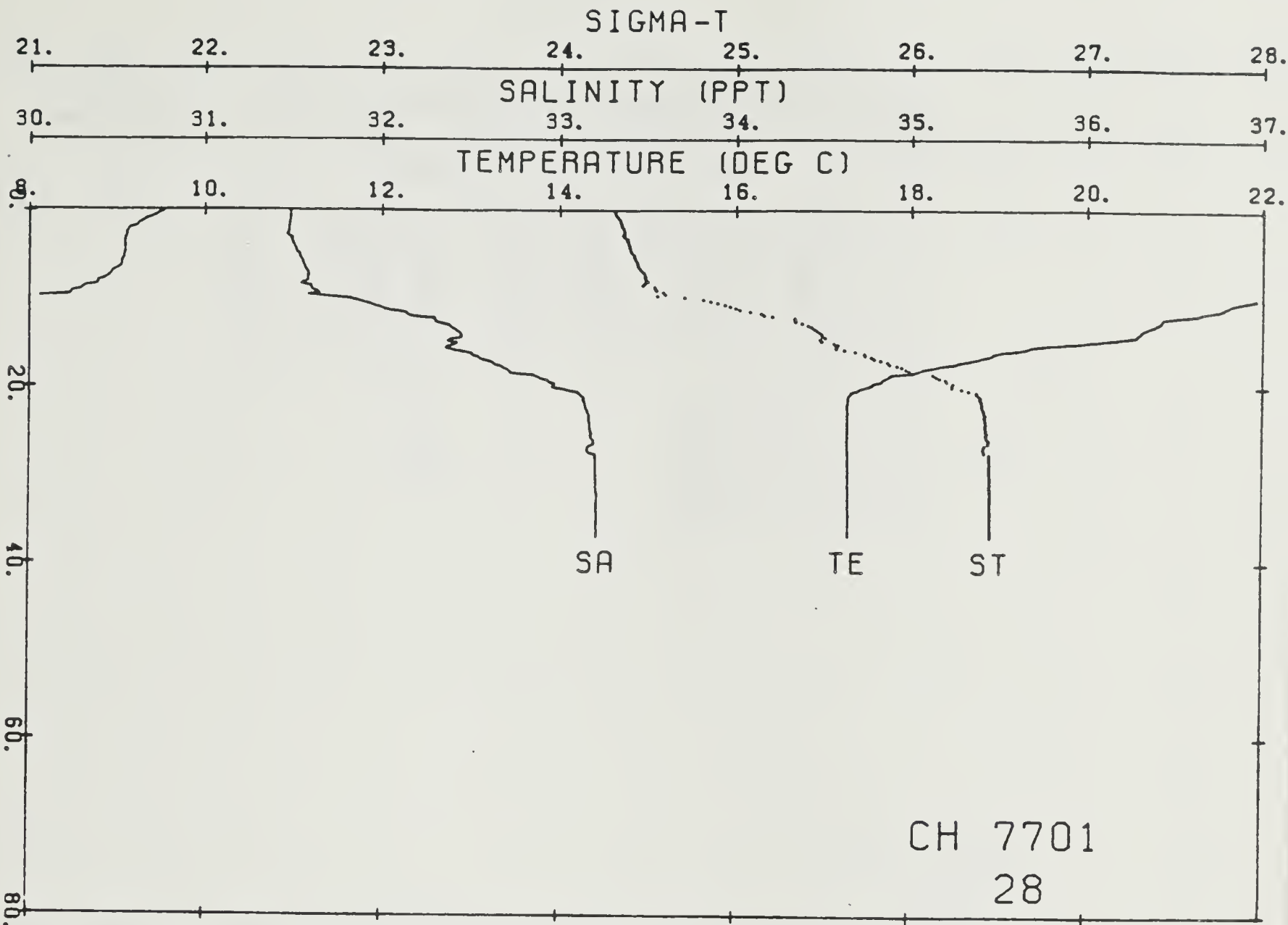
DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	9.519	31.479	24.282	363.2	0.000	1484.1	0.0
5	9.069	31.533	24.394	352.6	.018	1482.6	5.0
10	7.918	31.820	24.790	314.9	.035	1478.6	10.0
15	5.873	32.426	25.535	244.0	.049	1471.4	15.0
20	3.420	33.021	26.268	174.3	.059	1462.1	20.2
25	3.270	33.184	26.412	160.7	.068	1461.7	25.2
30	3.281	33.209	26.430	159.0	.076	1461.9	30.2
35	3.288	33.213	26.433	158.7	.084	1462.0	35.2
37	3.290	33.213	26.433	158.8	.087	1462.0	37.0

DTH	TEM	SAL	DXG	PHOS	NITR	SIL	NO2	AMM
0		31.503	7.14					
3		31.531	7.20					
9	7.990	31.647	7.21					
19	3.590	32.884	6.73					
35	3.280	33.191						

SHIP CH CRUISE 77-01 STATION 29 POSITION 40 29.90 N 72 37.10 W
 LOCAL TIME 1555 DATE 77/ 5/ 5 WIND = knots DIR = DEPTH= 43M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	8.882	31.938	24.740	319.5	0.000	1482.3	0.0
5	8.763	32.043	24.840	310.1	.016	1482.1	5.0
10	8.540	32.072	24.896	304.8	.031	1481.3	10.0
15	6.347	32.697	25.690	229.3	.044	1473.7	15.0
20	3.789	33.104	26.299	171.4	.055	1463.7	20.1
25	3.022	33.334	26.554	147.2	.063	1460.8	25.1
30	3.027	33.343	26.560	146.6	.070	1461.0	30.2
35	3.028	33.346	26.562	146.5	.077	1461.1	35.2
40	3.026	33.350	26.566	146.2	.085	1461.1	40.2
42	3.030	33.350	26.565	146.2	.087	1461.2	42.0

DTH	TEM	SAL	DXG	PHOS	NITR	SIL	NO2	AMM
0		31.807						
7	8.580	32.061	7.08					
19		33.034						
29	3.030	33.315	6.09					
33		33.320	6.18					
40	3.030	33.323						



SHIP CH CRUISE 77-01 STATION 30 POSITION 40 46.50 N 72 29.30 W
 LOCAL TIME 1945 DATE 77/ 5/ 5 WIND = knots DIR = DEPTH= 28M

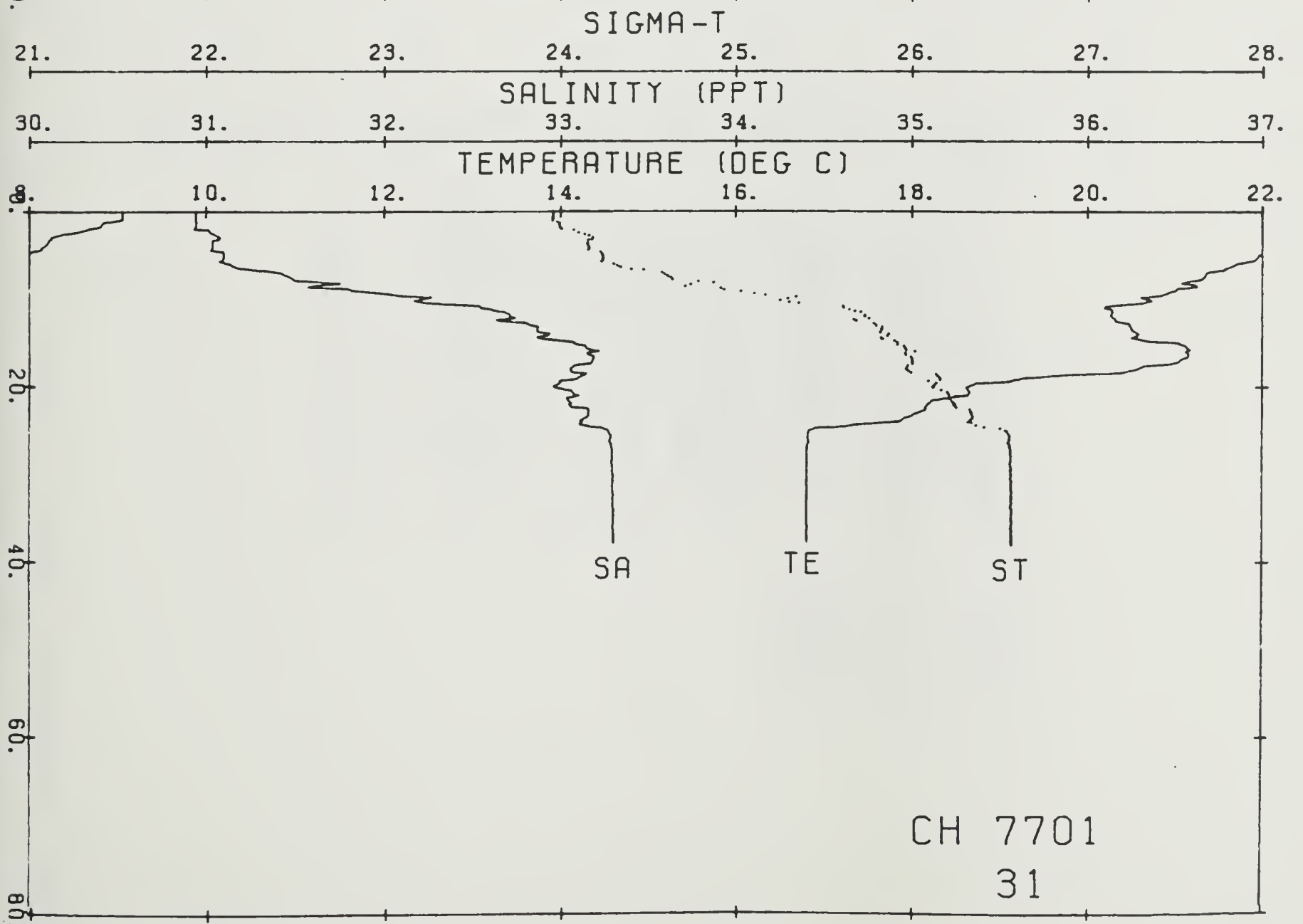
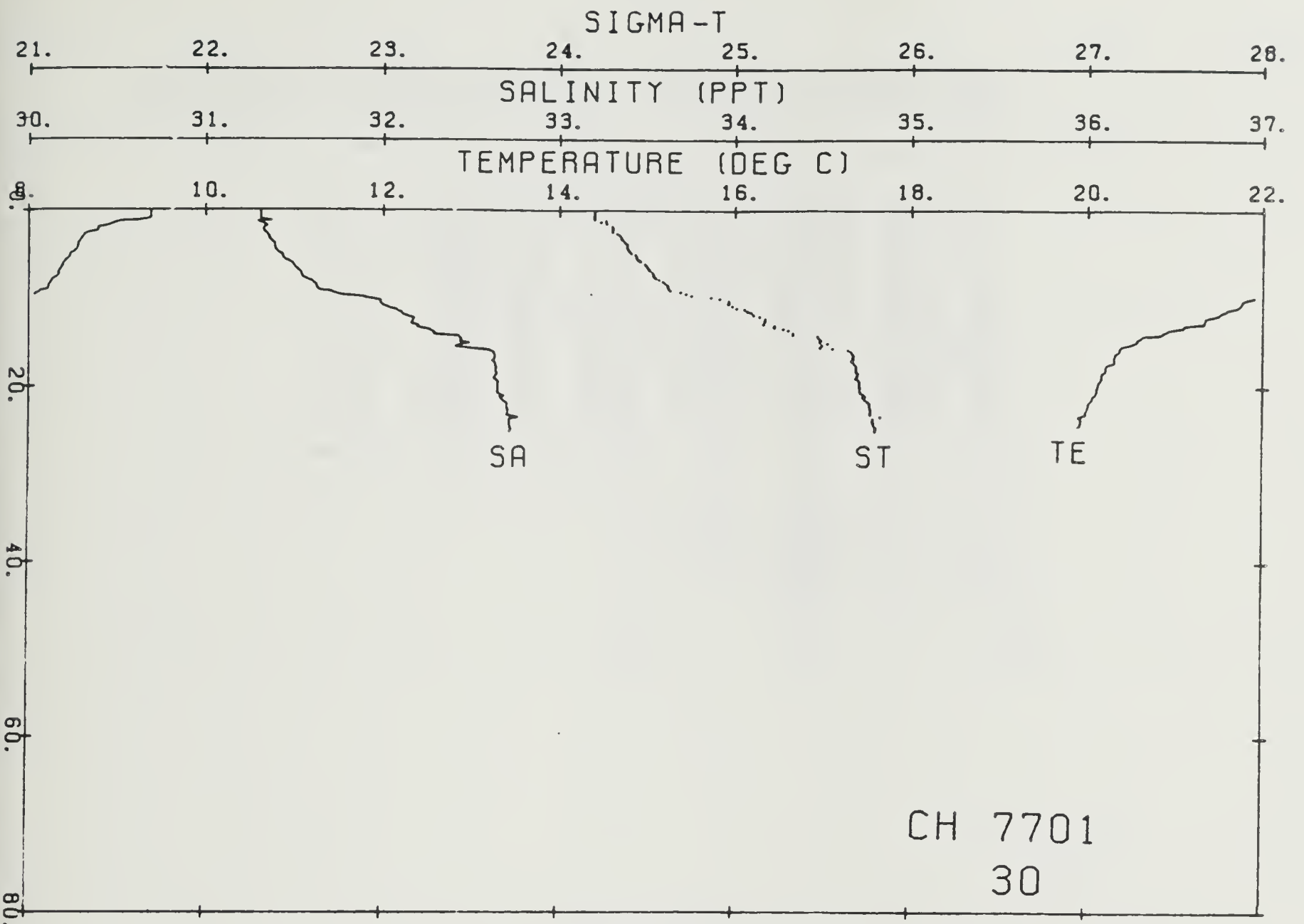
DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	9.378	31.310	24.172	373.6	0.000	1483.4	0.0
5	8.466	31.433	24.407	351.3	.018	1480.2	5.0
10	7.831	31.931	24.888	305.5	.035	1478.4	10.0
15	6.528	32.486	25.501	247.3	.048	1474.1	15.0
20	6.107	32.650	25.683	230.0	.061	1472.7	20.1
25	5.860	32.720	25.769	221.9	.072	1471.9	25.0

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
0		31.341						
4	8.410	31.385						
9		31.921						
14	6.250	32.588						
19		31.246						
24	5.840	32.684						

SHIP CH CRUISE 77-01 STATION 31 POSITION 40 41.40 N 72 20.30 W
 LOCAL TIME 2158 DATE 77/ 5/ 5 WIND = knots DIR = DEPTH= 40M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	9.066	30.942	23.932	396.5	0.000	1481.7	0.0
5	7.972	31.100	24.217	369.4	.019	1477.8	5.0
10	6.680	32.218	25.270	269.2	.035	1474.3	10.0
15	7.040	33.079	25.901	209.3	.047	1476.9	15.0
20	4.623	32.960	26.100	190.4	.057	1467.1	20.1
25	2.831	33.274	26.522	150.2	.066	1459.9	25.1
30	2.804	33.299	26.544	148.1	.073	1459.9	30.2
35	2.803	33.304	26.548	147.8	.081	1460.0	35.2
38	2.803	33.304	26.549	147.8	.085	1460.1	38.0

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
0		30.939						
4	7.420	31.186	7.07					
8		32.077	6.77					
17	4.630	33.063	6.95					
29		33.279	6.47					
36	2.810	33.286						



SHIP CH CRUISE 77-01 STATION 32 POSITION 40 36.50 N 72 13.40 W
 LOCAL TIME 55 DATE 77/ 5/ 6 WIND = knots DIR = DEPTH= 49M

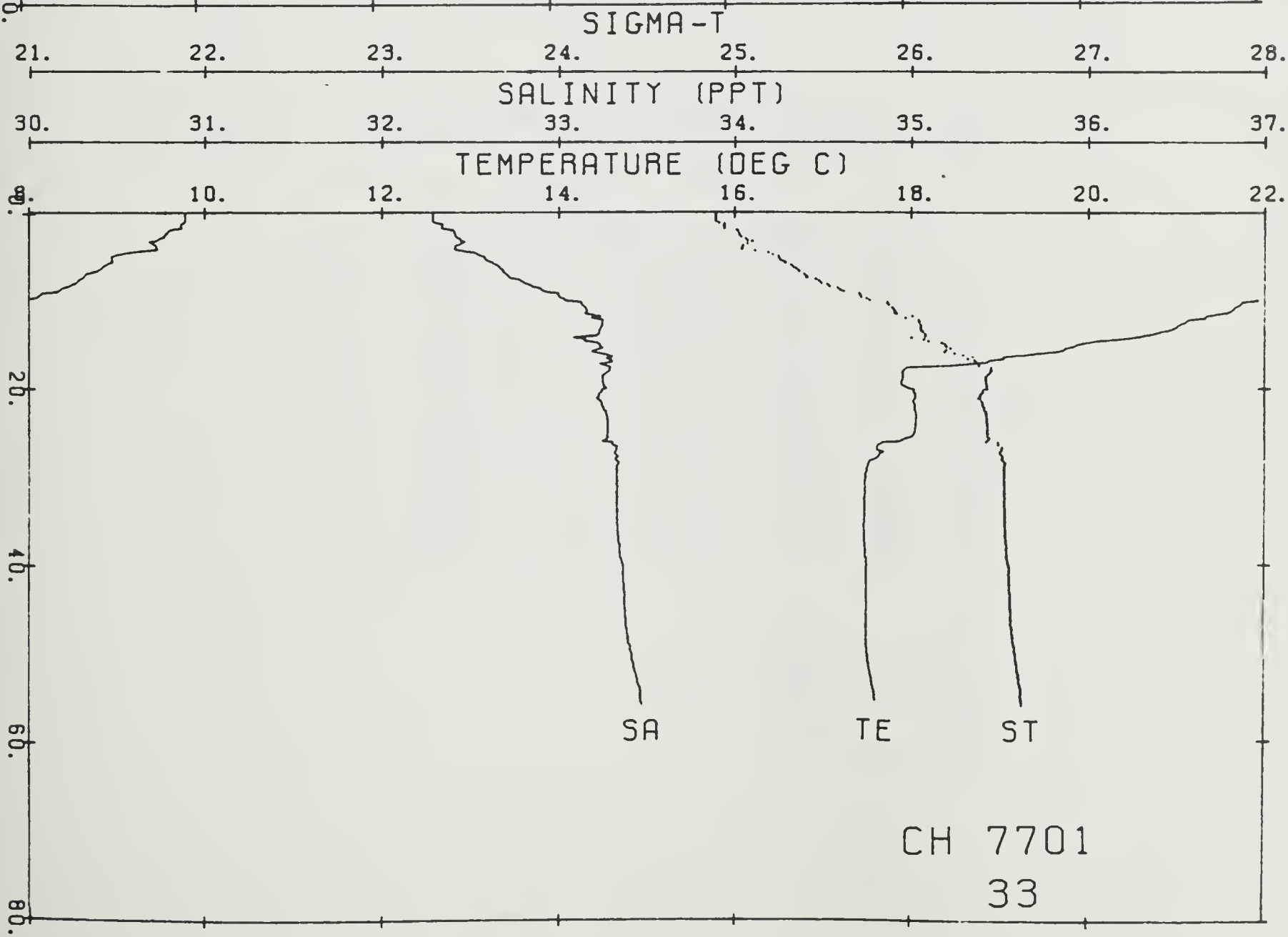
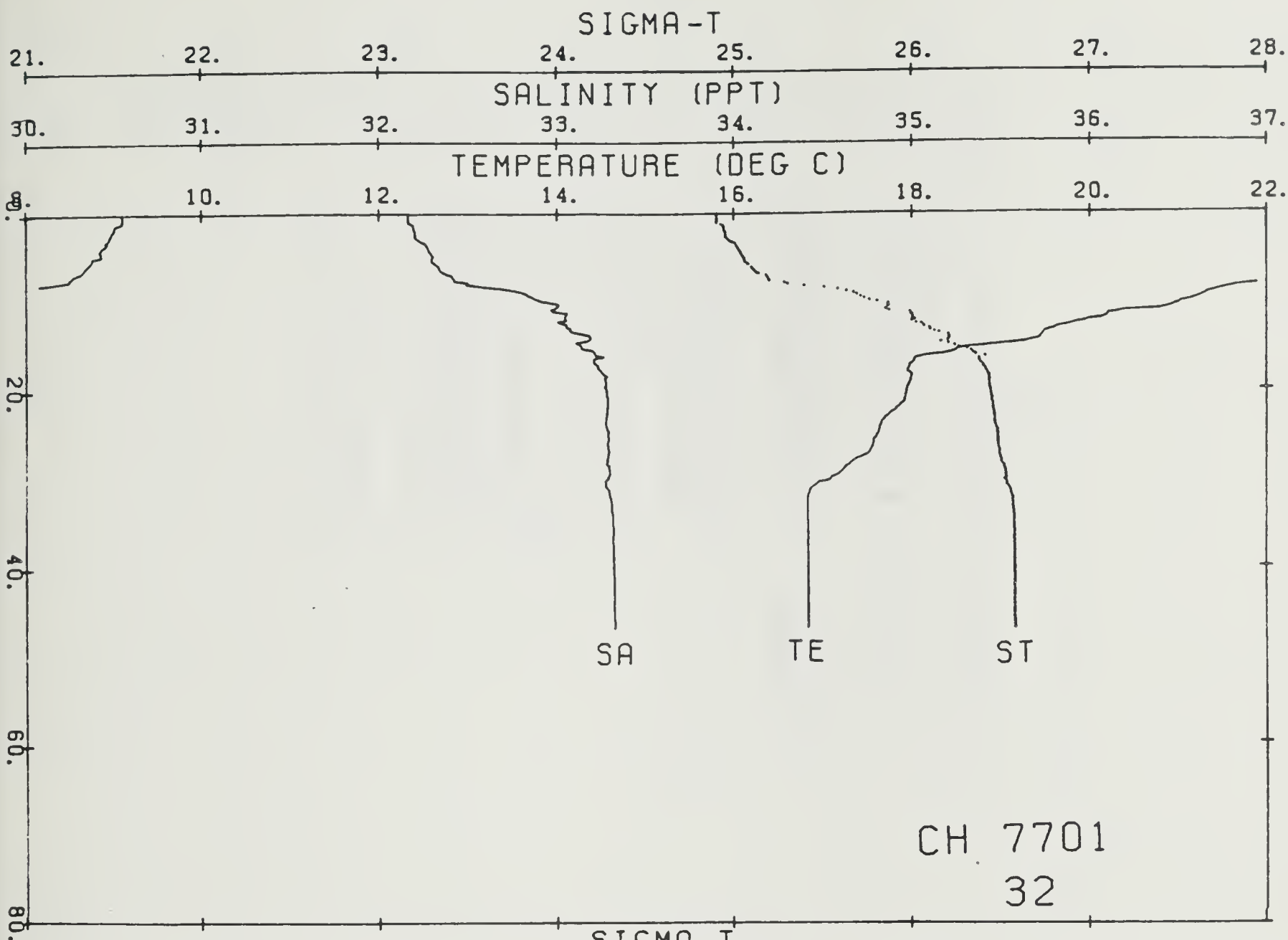
DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	9.115	32.167	24.883	305.9	0.000	1483.5	0.0
5	8.765	32.297	25.039	291.2	.015	1482.4	5.0
10	7.128	32.950	25.787	220.0	.028	1477.0	10.0
15	4.844	33.139	26.218	179.1	.038	1468.1	15.0
20	3.941	33.280	26.424	159.6	.046	1464.6	20.1
25	3.606	33.288	26.463	155.9	.054	1463.3	25.1
30	3.071	33.270	26.498	152.6	.062	1461.1	30.2
35	2.828	33.313	26.554	147.3	.070	1460.1	35.2
40	2.833	33.319	26.558	146.9	.077	1460.3	40.2
45	2.834	33.321	26.559	146.8	.084	1460.3	45.2
47	2.834	33.324	26.561	146.6	.087	1460.4	47.0

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
0	9.020	32.158	7.05					
8		32.771	6.96					
19	3.950	33.265	6.54					
30		33.281	6.65					
45	2.840	33.295						

SHIP CH CRUISE 77-01 STATION 33 POSITION 40 26.90 N 72 4.60 W
 LOCAL TIME 355 DATE 77/ 5/ 6 WIND = knots DIR = DEPTH= 57M

DTH	TEM	SAL	SGT	AND	DYN	SVL	PRS
0	9.782	32.286	24.870	307.1	0.000	1486.1	0.0
5	8.941	32.574	25.228	273.1	.015	1483.4	5.0
10	7.920	33.035	25.743	224.3	.027	1480.2	10.0
15	5.877	33.231	26.170	183.7	.037	1472.5	15.0
20	4.033	33.239	26.383	163.5	.046	1465.0	20.1
25	4.033	33.277	26.412	160.7	.054	1465.1	25.1
30	3.487	33.329	26.507	151.7	.062	1462.9	30.2
35	3.473	33.333	26.511	151.4	.070	1462.9	35.2
40	3.503	33.364	26.533	149.3	.077	1463.2	40.2
45	3.502	33.378	26.544	148.3	.085	1463.3	45.2
50	3.520	33.418	26.575	145.5	.092	1463.5	50.3
55	3.603	33.465	26.604	142.7	.099	1464.0	55.4
56	3.611	33.472	26.609	142.2	.100	1464.1	56.0

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
0		32.258						
14	5.290	33.266						
29		33.315						
33	3.460	33.312						
49		33.389						
54	3.600	33.425						



SHIP CH CRUISE 77-01 STATION 34 POSITION 40 18.59 N 71 57.50 W
 LOCAL TIME 850 DATE 77/ 5/ 6 WIND = knots DIR = DEPTH= 66M

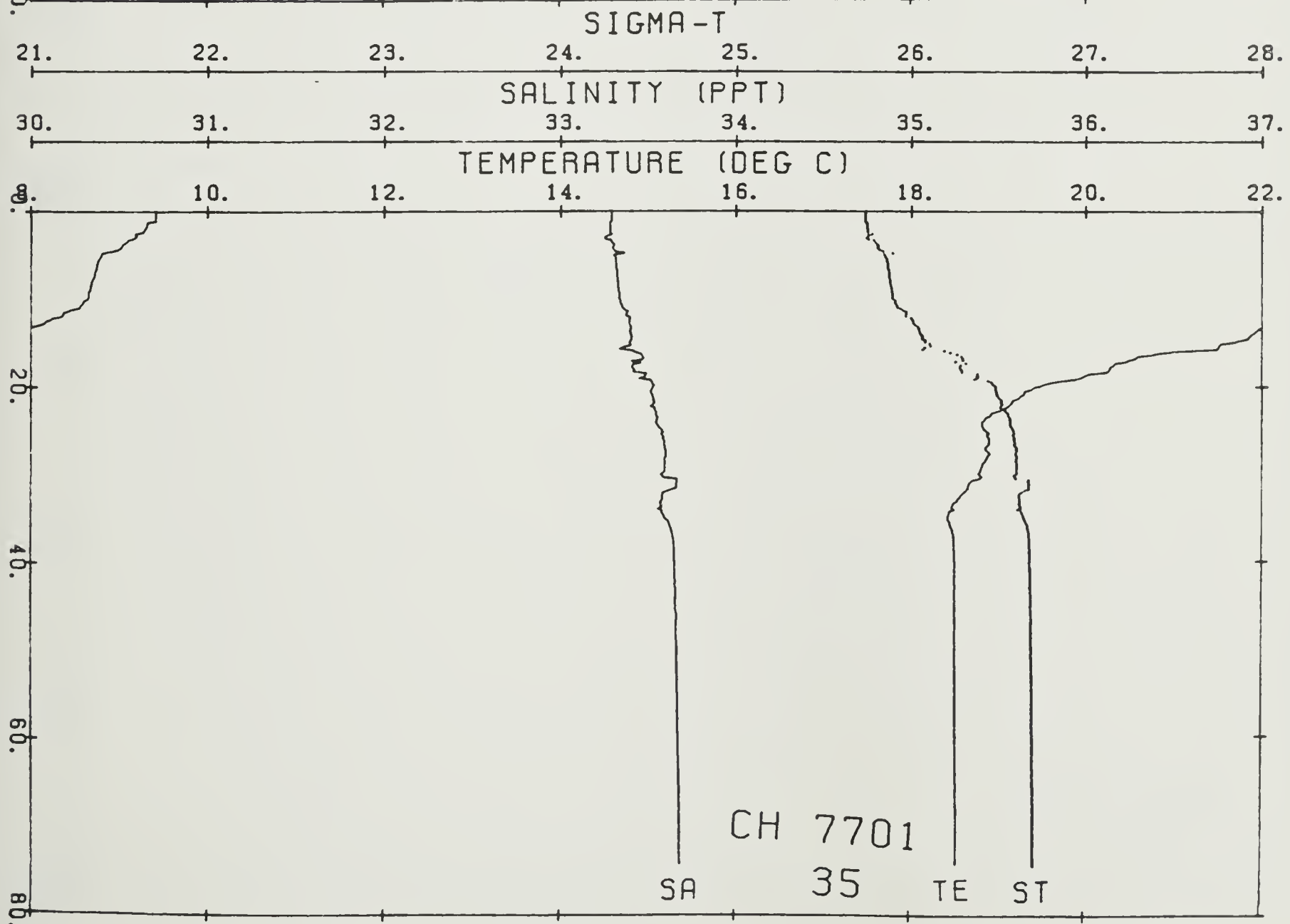
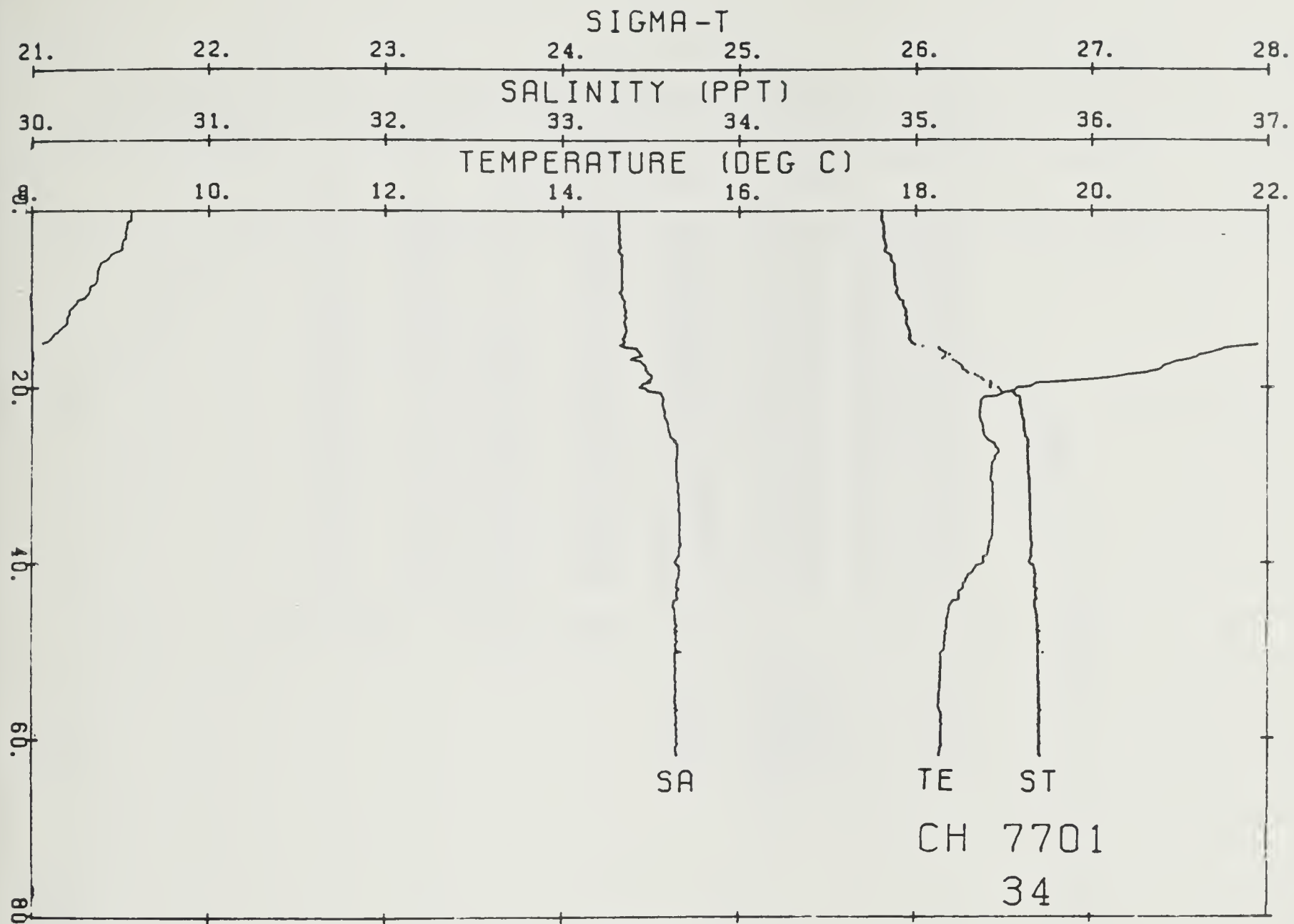
DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	9.124	33.318	25.782	220.4	0.000	1485.0	0.0
5	8.891	33.337	25.833	215.6	.011	1484.2	5.0
10	8.584	33.344	25.887	210.6	.022	1483.2	10.0
15	8.116	33.345	25.958	204.0	.032	1481.5	15.0
20	5.145	33.473	26.449	157.3	.041	1469.9	20.1
25	4.784	33.612	26.599	143.1	.049	1468.7	25.4
30	4.855	33.649	26.620	141.1	.056	1469.1	30.2
35	4.880	33.665	26.630	140.2	.063	1469.3	35.2
40	4.725	33.646	26.633	140.0	.070	1468.7	40.2
45	4.376	33.629	26.657	137.7	.077	1467.3	45.2
50	4.279	33.634	26.671	136.4	.084	1467.0	50.3
55	4.253	33.636	26.675	136.0	.091	1467.0	55.4
60	4.276	33.645	26.680	135.7	.098	1467.2	60.4
62	4.264	33.645	26.681	135.5	.100	1467.2	62.0

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
0	9.250							
8	8.480	33.345						
22		33.590						
33	4.830	33.633						
45		33.626						
60	4.270	33.609						

SHIP CH CRUISE 77-01 STATION 35 POSITION 40 12.10 N 71 52.60 W
 LOCAL TIME 1253 DATE 77/ 5/ 6 WIND = knots DIR = DEPTH= 76M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	9.415	33.290	25.713	226.9	0.000	1486.0	0.0
5	8.796	33.299	25.819	217.0	.011	1483.8	5.0
10	8.638	33.332	25.869	212.3	.022	1483.3	10.0
15	7.680	33.392	26.058	194.4	.032	1479.8	15.0
20	5.408	33.527	26.461	156.1	.041	1471.1	20.1
25	4.888	33.588	26.568	146.0	.049	1469.1	25.4
30	4.788	33.571	26.567	146.2	.056	1468.7	30.2
35	4.413	33.593	26.624	140.7	.063	1467.3	35.2
40	4.508	33.651	26.661	137.3	.070	1467.8	40.2
45	4.507	33.658	26.666	136.9	.077	1467.9	45.2
50	4.512	33.664	26.670	136.5	.084	1468.0	50.3
55	4.515	33.669	26.674	136.2	.091	1468.1	55.4
60	4.517	33.673	26.676	136.0	.098	1468.2	60.4
65	4.522	33.677	26.679	135.8	.104	1468.3	65.4
70	4.529	33.681	26.682	135.6	.111	1468.4	70.4
75	4.530	33.684	26.684	135.4	.117	1468.5	75.0

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
0		33.298						
7	8.500	33.348	7.98					
18		33.530	7.70					
28	4.600	33.578	7.27					
49		33.631	6.31					
73	4.530	33.640						



SHIP CH CRUISE 77-01 STATION 36 POSITION 40 1.90 N 71 49.50 W
 LOCAL TIME 1631 DATE 77/ 5/ 6 WIND = knots DIR = DEPTH= 91M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	9.888	33.471	25.777	220.8	0.000	1488.0	0.0
5	9.482	33.489	25.858	213.2	.011	1486.6	5.0
10	8.982	33.535	25.974	202.3	.021	1484.9	10.0
15	8.736	33.544	26.020	198.1	.031	1484.1	15.0
20	6.295	33.555	26.374	164.4	.041	1474.7	20.2
25	5.170	33.612	26.556	147.2	.048	1470.3	25.2
30	4.875	33.621	26.597	143.3	.056	1469.2	30.2
35	5.173	33.701	26.626	140.7	.063	1470.6	35.2
40	5.339	33.754	26.649	138.5	.070	1471.4	40.2
45	5.264	33.769	26.669	136.6	.077	1471.2	45.2
50	5.302	33.822	26.707	133.2	.084	1471.5	50.4
55	5.158	33.843	26.740	130.0	.090	1471.0	55.4
60	5.143	33.853	26.749	129.2	.097	1471.1	60.4
65	5.133	33.860	26.757	128.6	.103	1471.1	65.4
70	5.133	33.862	26.758	128.5	.110	1471.2	70.4
75	5.135	33.869	26.763	128.0	.116	1471.3	75.4
80	5.138	33.874	26.767	127.8	.123	1471.4	80.6
85	5.145	33.878	26.770	127.6	.128	1471.5	84.8

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
0		33.496						
2	9.720	33.473	7.40					
13		33.537	7.29					
24	5.020	33.602	6.66					
48		33.773	6.15					
83	5.140	33.830						

SIGMA-T

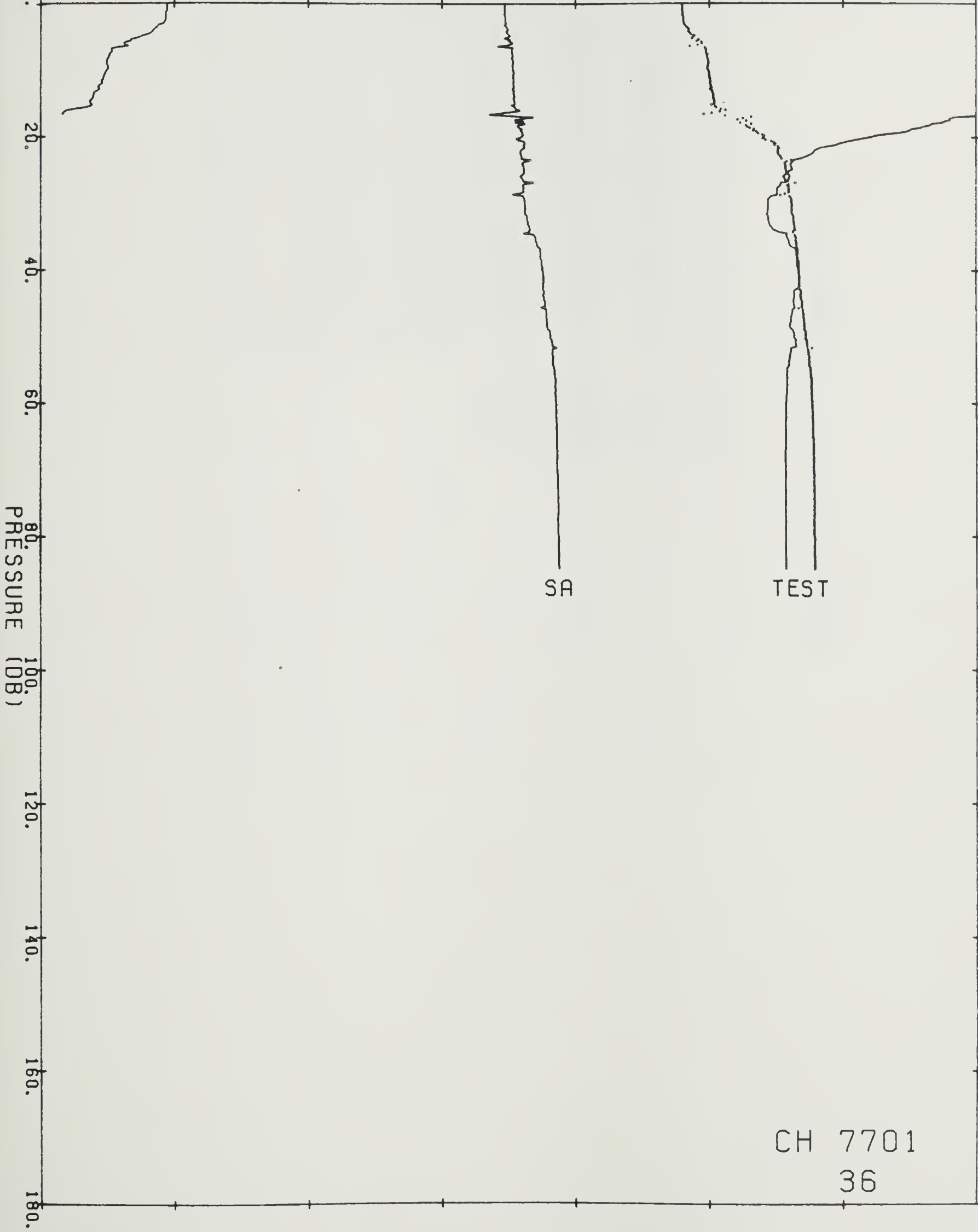
21. 22. 23. 24. 25. 26. 27. 28.

SALINITY (PPT)

30. 31. 32. 33. 34. 35. 36. 37.

TEMPERATURE (DEG C)

8. 10. 12. 14. 16. 18. 20. 22.



SA

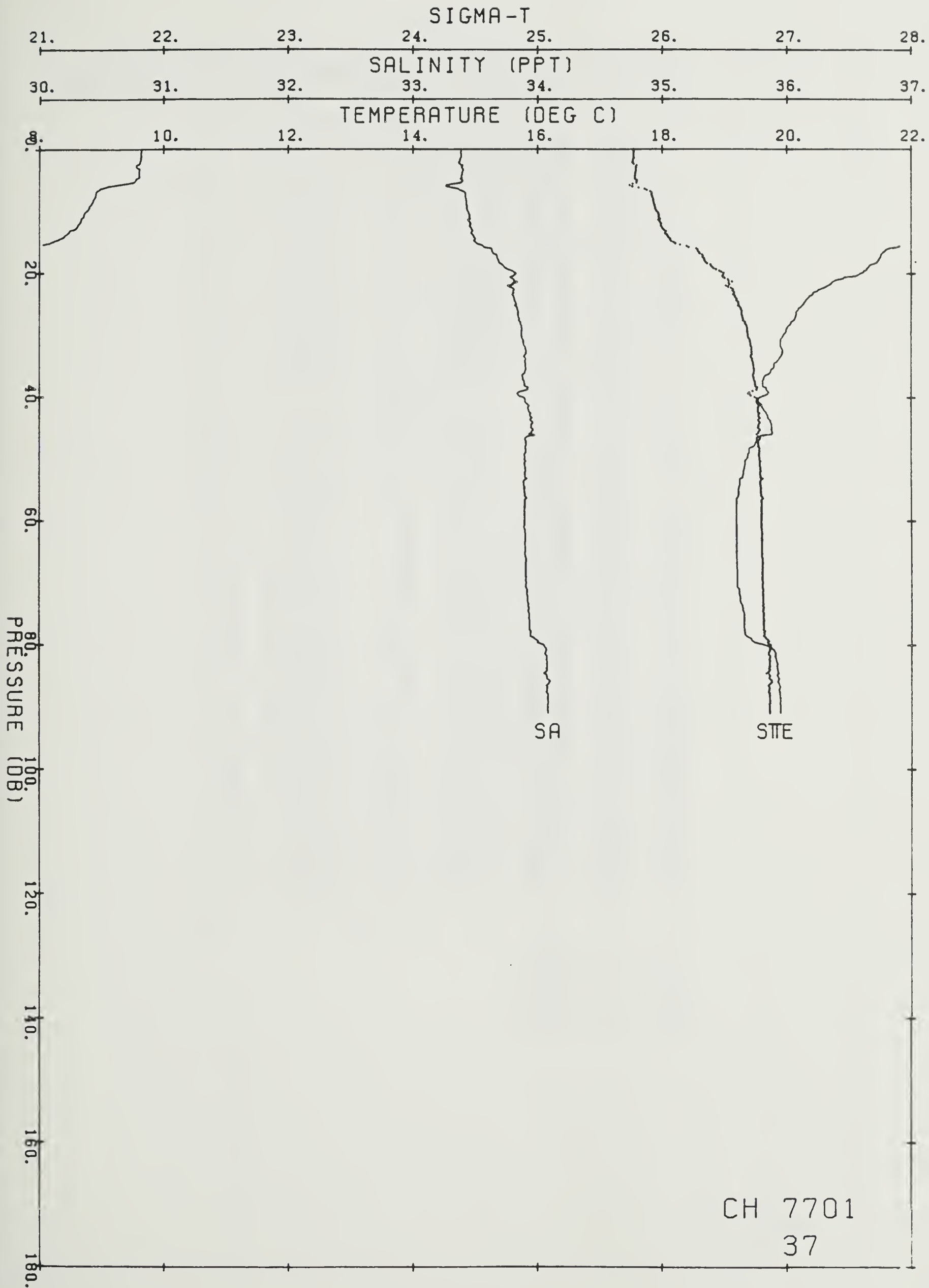
TEST

CH 7701
36

SHIP CH CRUISE 77-01 STATION 37 POSITION 39 59.40 N 71 43.20 W
 LOCAL TIME 1859 DATE 77/ 5/ 6 WIND = knots DIR = DEPTH= 91M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	9.643	33.385	25.751	223.3	0.000	1487.0	0.0
5	9.548	33.401	25.779	220.8	.011	1486.8	5.0
10	8.759	33.442	25.936	205.9	.022	1483.9	10.0
15	8.193	33.506	26.072	193.1	.032	1482.0	15.0
20	7.140	33.816	26.467	155.6	.041	1478.4	20.2
25	6.230	33.815	26.587	144.3	.048	1474.8	25.2
30	5.926	33.873	26.672	136.3	.055	1473.8	30.2
35	5.784	33.904	26.714	132.3	.062	1473.3	35.2
40	5.535	33.897	26.738	130.1	.069	1472.4	40.2
45	5.760	33.962	26.762	127.9	.075	1473.5	45.2
50	5.320	33.902	26.768	127.3	.082	1471.7	50.4
55	5.220	33.892	26.772	127.0	.088	1471.3	55.4
60	5.187	33.892	26.775	126.8	.094	1471.3	60.4
65	5.189	33.898	26.780	126.4	.101	1471.4	65.4
70	5.200	33.905	26.784	126.0	.107	1471.5	70.4
75	5.314	33.933	26.793	125.2	.113	1472.1	75.4
80	5.770	34.070	26.847	120.3	.120	1474.2	80.6
85	5.870	34.091	26.851	120.0	.126	1474.7	85.6
90	5.899	34.083	26.841	121.0	.132	1474.9	90.6
90	5.901	34.085	26.842	120.9	.132	1475.0	91.0

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
0		33.344						
8	9.200	33.421	7.41					
29		33.843	7.42					
54	5.650	33.925	6.09					
79		33.989	5.13					
91	5.900	34.036						



SHIP CH CRUISE 77-01 STATION 38 POSITION 39 51.30 N 71 32.00 W
 LOCAL TIME 45 DATE 77/ 5/ 7 WIND = knots DIR = DEPTH= 428M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	18.348	35.883	25.863	212.7	0.000	1518.6	0.0
5	18.296	35.879	25.873	211.9	.011	1518.5	5.0
10	17.837	35.822	25.943	205.4	.021	1517.2	10.0
15	16.496	35.718	26.186	182.5	.031	1513.1	15.0
20	15.977	35.936	26.474	155.3	.039	1511.9	20.1
25	15.772	35.986	26.560	147.3	.047	1511.4	25.4
30	15.656	36.039	26.627	141.1	.054	1511.2	30.2
35	15.468	36.049	26.677	136.5	.061	1510.7	35.2
40	14.672	35.885	26.727	131.8	.068	1508.1	40.2
45	14.065	35.847	26.829	122.3	.074	1506.2	45.2
50	13.483	35.751	26.877	117.9	.080	1504.2	50.3
55	13.163	35.688	26.894	116.3	.086	1503.2	55.4
60	13.075	35.703	26.923	113.7	.092	1503.0	60.4
65	12.580	35.579	26.926	113.5	.098	1501.2	65.4
70	12.525	35.618	26.968	109.7	.103	1501.2	70.4
75	12.387	35.608	26.987	108.0	.109	1500.8	75.4
80	12.635	35.696	27.006	106.4	.114	1501.8	80.6
85	12.522	35.674	27.012	105.9	.120	1501.5	85.6
90	12.494	35.670	27.014	105.9	.125	1501.5	90.6
95	12.212	35.611	27.024	105.0	.130	1500.5	95.6
100	11.902	35.557	27.041	103.4	.136	1499.5	100.6
105	11.697	35.521	27.053	102.4	.141	1498.8	105.6
110	11.617	35.523	27.069	101.0	.146	1498.6	110.8
115	11.546	35.529	27.087	99.4	.151	1498.5	115.8
120	11.587	35.556	27.100	98.3	.156	1498.7	120.8
125	11.622	35.568	27.103	98.1	.161	1498.9	125.8
130	11.673	35.588	27.109	97.7	.166	1499.2	130.8
135	11.807	35.636	27.121	96.7	.171	1499.8	136.0
140	11.880	35.659	27.125	96.5	.176	1500.2	141.0
145	12.019	35.703	27.132	96.0	.180	1500.8	146.0
150	12.022	35.704	27.132	96.1	.185	1500.9	151.0
155	12.020	35.707	27.135	96.0	.190	1501.0	156.0
160	11.957	35.697	27.140	95.7	.195	1500.8	161.2
165	11.895	35.684	27.141	95.6	.200	1500.7	166.2
170	11.822	35.665	27.141	95.8	.205	1500.5	171.2
175	11.727	35.653	27.149	95.1	.209	1500.2	176.2
180	11.696	35.651	27.153	94.8	.214	1500.2	181.2
185	11.692	35.653	27.156	94.6	.219	1500.3	186.2
190	11.585	35.635	27.163	94.1	.224	1500.0	191.4
195	11.538	35.625	27.163	94.2	.228	1499.9	196.4
200	11.395	35.605	27.174	93.2	.233	1499.4	201.4
225	10.859	35.532	27.216	89.6	.256	1497.8	226.6
250	10.374	35.475	27.259	86.0	.278	1496.4	251.8
275	9.716	35.407	27.319	80.5	.299	1494.4	277.0
300	9.244	35.367	27.366	76.3	.319	1493.0	302.2
325	8.800	35.346	27.422	71.3	.338	1491.7	327.4
350	8.602	35.347	27.454	68.6	.355	1491.4	352.6
375	8.330	35.355	27.503	64.3	.372	1490.8	377.8
400	8.128	35.355	27.534	61.7	.388	1490.4	403.1
421	7.822	35.348	27.575	58.0	.400	1489.6	423.8

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
17		36.007						
71	12.930	35.721						
99		35.506						
171	11.570	35.543						
206		35.431						
412	7.890	35.136						

SIGMA-T

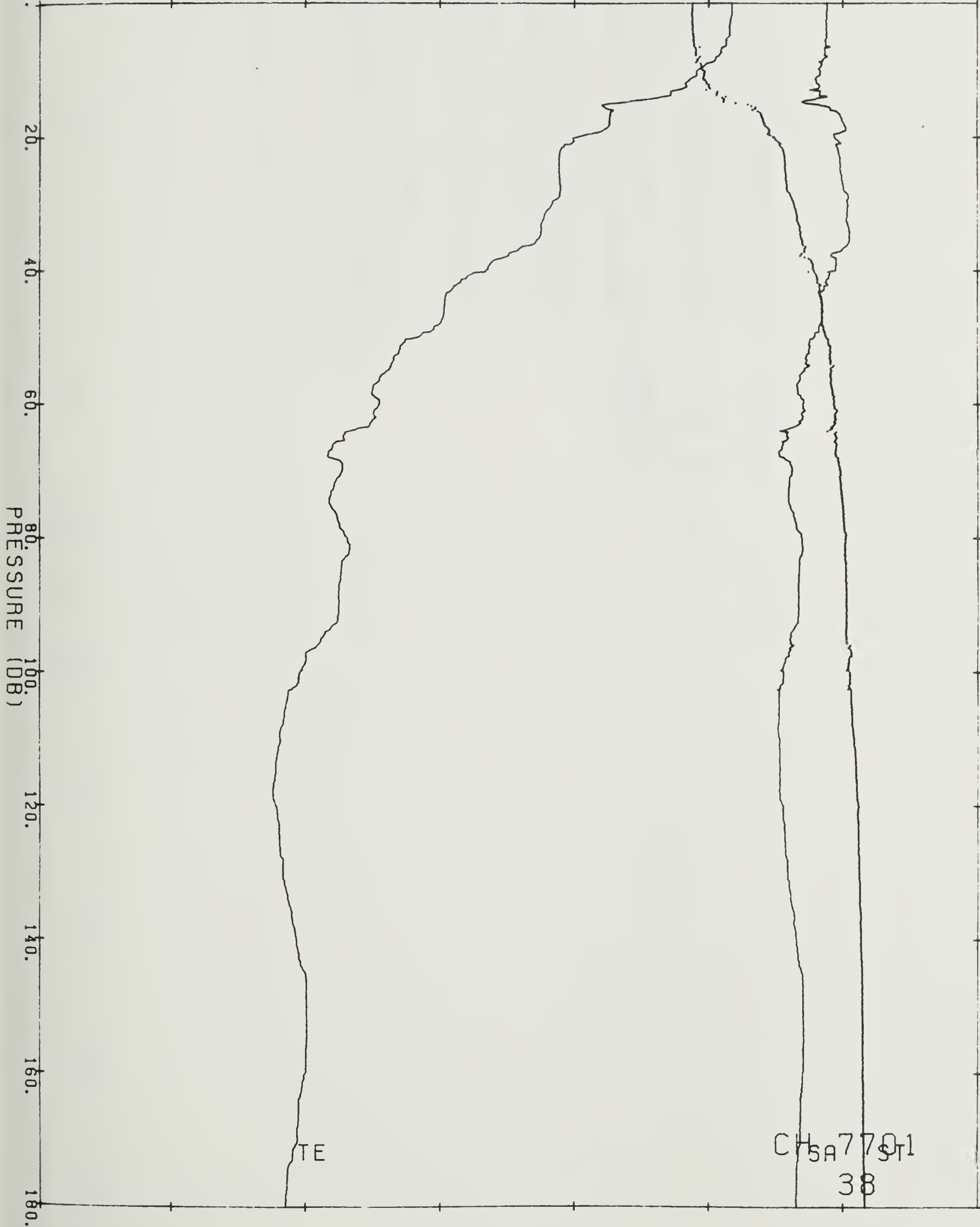
21. 22. 23. 24. 25. 26. 27. 28.

SALINITY (PPT)

30. 31. 32. 33. 34. 35. 36. 37.

TEMPERATURE (DEG C)

20. 10. 12. 14. 16. 18. 20. 22.



SHIP CH CRUISE 77-01 STATION 39 POSITION 39 58.30 N 71 41.60 W
 LOCAL TIME 300 DATE 77/ 5/ 7 WIND = knots DIR = DEPTH= 100M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	9.698	33.367	25.728	225.6	0.000	1487.2	0.0
5	9.598	33.433	25.796	219.2	.011	1487.0	5.0
10	9.030	33.560	25.986	201.2	.022	1485.1	10.0
15	8.746	33.599	26.061	194.2	.032	1484.2	15.0
20	7.812	33.661	26.250	176.3	.041	1480.8	20.1
25	6.718	33.785	26.500	152.6	.050	1476.8	25.4
30	6.456	33.813	26.557	147.2	.057	1475.8	30.2
35	6.262	33.930	26.674	136.2	.064	1475.3	35.2
40	6.108	33.943	26.704	133.3	.071	1474.8	40.2
45	5.831	33.940	26.737	130.3	.077	1473.7	45.2
50	5.889	33.991	26.770	127.2	.084	1474.1	50.3
55	6.095	34.012	26.760	128.3	.090	1475.1	55.4
60	6.446	34.157	26.830	121.8	.097	1476.7	60.4
65	7.161	34.279	26.829	122.0	.103	1479.8	65.4
70	7.429	34.335	26.835	121.6	.109	1481.0	70.4
75	7.802	34.430	26.856	119.7	.115	1482.6	75.4
80	7.319	34.432	26.927	113.0	.121	1480.9	80.6
85	9.028	34.906	27.041	102.6	.126	1488.1	85.6
90	9.394	34.954	27.019	104.9	.131	1489.6	90.6
92	9.401	34.954	27.017	105.0	.134	1489.6	93.0

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
0		33.386						
22	7.130	33.775						
32		33.882						
43	6.090	33.961						
74		34.748						
88	9.430	34.921						

SIGMA-T

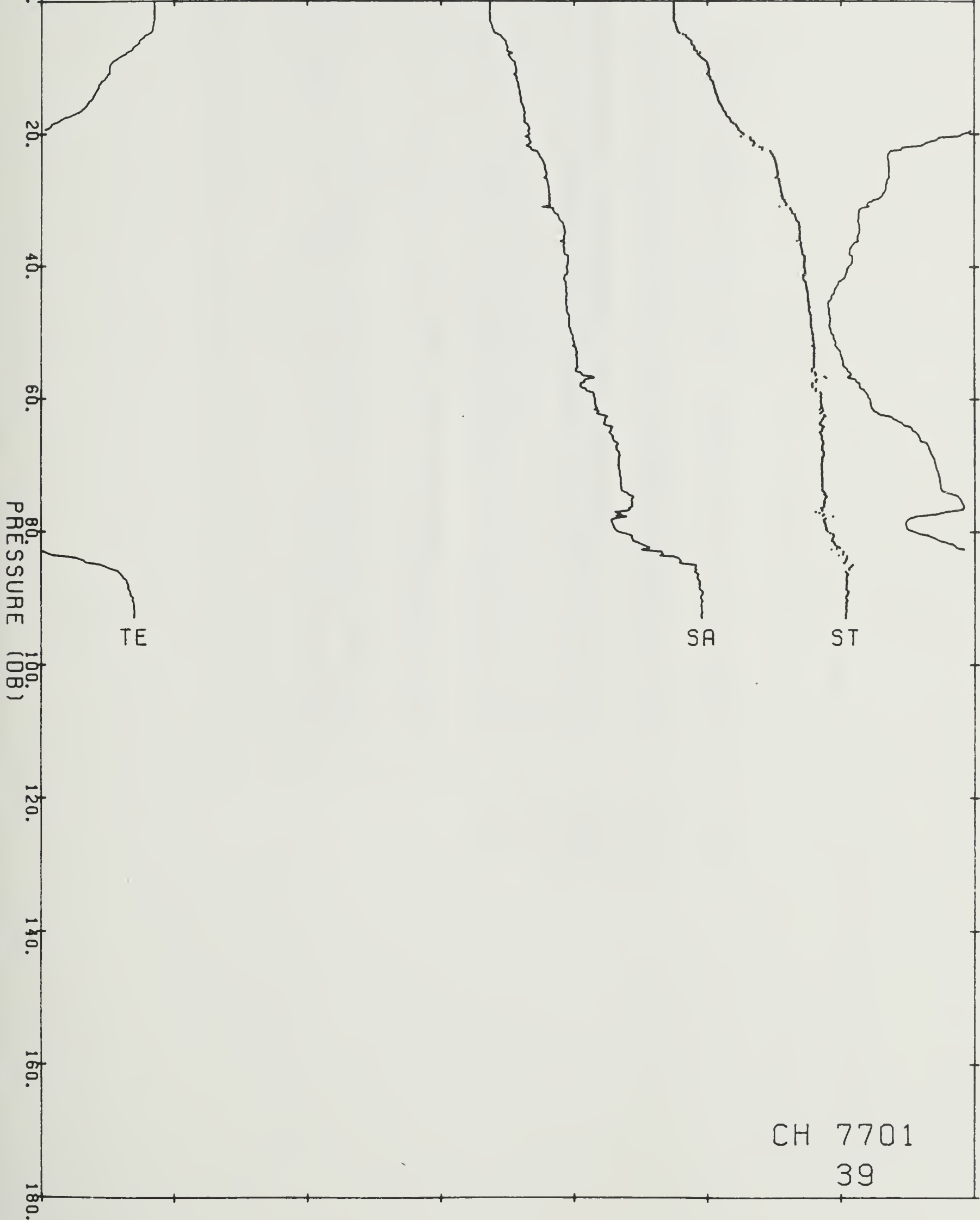
21. 22. 23. 24. 25. 26. 27. 28.

SALINITY (PPT)

30. 31. 32. 33. 34. 35. 36. 37.

TEMPERATURE (DEG C)

8. 10. 12. 14. 16. 18. 20. 22.



CH 7701
39

SHIP CH CRUISE 77-01 STATION 40 POSITION 39 51.40 N 71 31.90 W
 LOCAL TIME 615 DATE 77/ 5/ 7 WIND = knots DIR = DEPTH= 457M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	10.985	33.850	25.883	210.8	0.000	1492.5	0.0
5	12.792	34.923	26.376	164.1	.009	1500.2	5.0
10	15.766	35.497	26.184	182.5	.018	1510.6	10.0
15	14.333	35.203	26.274	174.0	.027	1505.8	15.0
20	14.128	35.212	26.325	169.4	.036	1505.2	20.1
25	13.630	35.278	26.480	154.8	.044	1503.7	25.4
30	12.753	35.181	26.583	145.1	.051	1500.8	30.2
35	12.746	35.374	26.734	130.9	.058	1501.1	35.2
40	12.354	35.335	26.781	126.5	.065	1499.8	40.2
45	12.809	35.533	26.845	120.7	.071	1501.6	45.2
50	12.869	35.602	26.887	116.9	.077	1502.0	50.3
55	12.312	35.514	26.928	113.0	.083	1500.1	55.4
60	12.769	35.690	26.975	108.8	.088	1501.9	60.4
65	12.861	35.734	26.990	107.5	.094	1502.4	65.4
70	12.901	35.743	26.989	107.7	.099	1502.6	70.4
75	12.805	35.572	26.876	118.5	.105	1502.2	75.4
80	12.628	35.696	27.007	106.2	.111	1501.8	80.6
85	12.591	35.692	27.012	105.9	.116	1501.8	85.6
90	12.535	35.684	27.017	105.6	.121	1501.6	90.6
95	12.345	35.635	27.016	105.8	.127	1501.0	95.6
100	12.188	35.623	27.038	103.8	.132	1500.5	100.6
105	12.110	35.586	27.024	105.2	.137	1500.3	105.8
110	11.882	35.557	27.045	103.3	.143	1499.6	110.8
115	11.770	35.550	27.061	101.9	.148	1499.3	115.8
120	11.686	35.551	27.078	100.4	.153	1499.0	120.8
125	11.623	35.551	27.090	99.4	.158	1498.9	125.8
130	11.636	35.561	27.095	99.0	.163	1499.0	130.8
135	11.668	35.583	27.106	98.1	.168	1499.3	136.0
140	11.677	35.589	27.109	97.9	.173	1499.4	141.0
145	11.698	35.605	27.118	97.3	.178	1499.6	146.0
150	11.687	35.614	27.126	96.6	.182	1499.6	151.0
155	11.724	35.634	27.135	95.9	.187	1499.9	156.0
160	11.740	35.645	27.141	95.5	.192	1500.0	161.2
165	11.675	35.632	27.143	95.4	.197	1499.8	166.2
170	11.666	35.637	27.148	95.0	.202	1499.9	171.2
175	11.649	35.637	27.152	94.8	.206	1499.9	176.2
180	11.623	35.631	27.152	94.9	.211	1499.9	181.2
185	11.553	35.623	27.159	94.3	.216	1499.7	186.2
190	11.510	35.617	27.162	94.1	.221	1499.7	191.4
195	11.447	35.606	27.166	93.9	.226	1499.5	196.4
200	11.392	35.603	27.173	93.3	.230	1499.4	201.4
225	11.031	35.554	27.202	91.0	.253	1498.5	226.6
250	10.515	35.489	27.244	87.4	.276	1497.0	251.8
275	9.977	35.424	27.287	83.6	.297	1495.4	277.0
300	9.466	35.384	27.343	78.6	.318	1493.8	302.2
321	8.927	35.359	27.412	72.2	.334	1492.2	323.0

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
0		34.142	6.46					
96	11.490	35.545	5.40					
157	11.800	35.581	5.38					
394		35.107	4.20					
423	7.100	35.108						

SIGMA-T

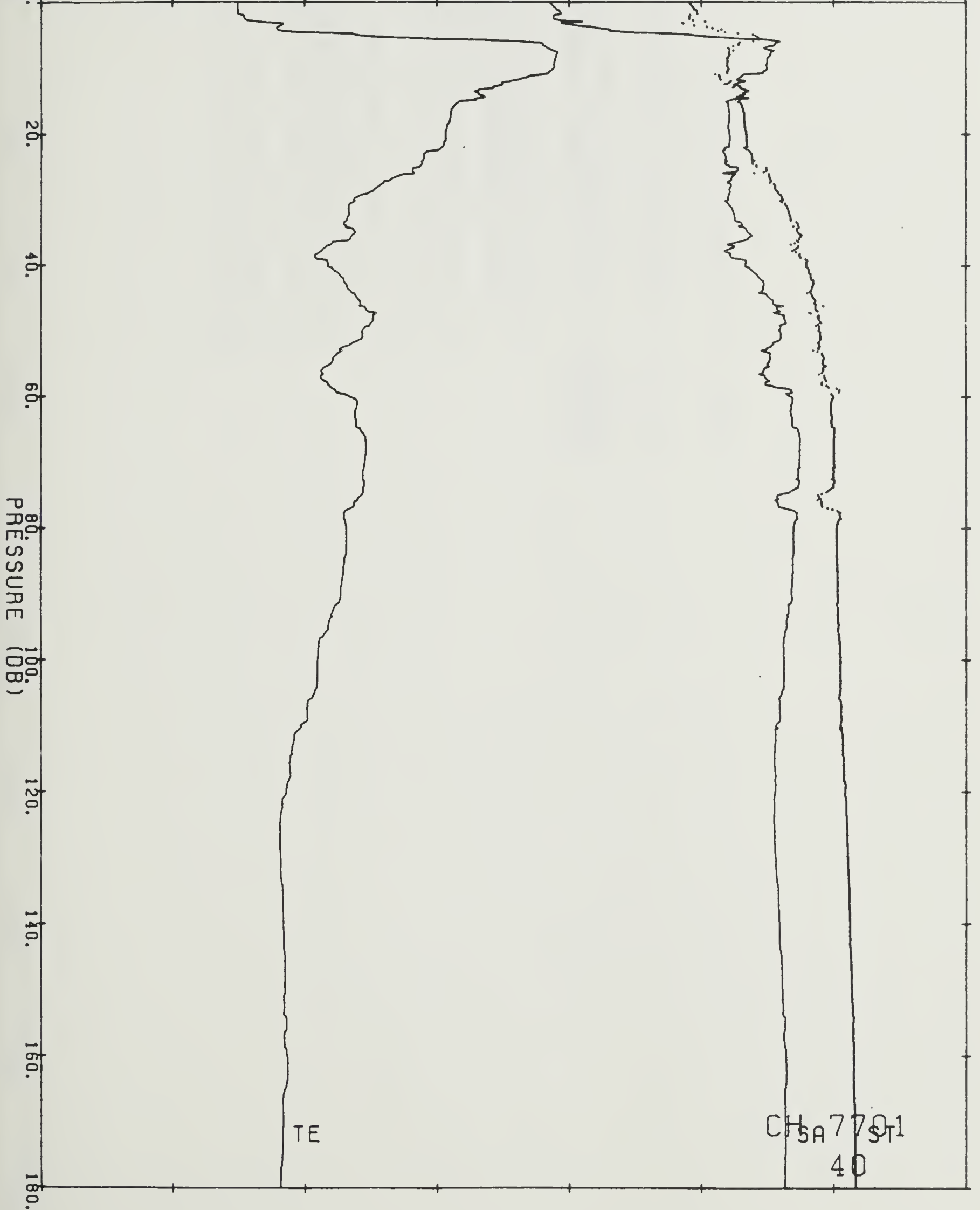
21. 22. 23. 24. 25. 26. 27. 28.

SALINITY (PPT)

30. 31. 32. 33. 34. 35. 36. 37.

TEMPERATURE (DEG C)

8. 10. 12. 14. 16. 18. 20. 22.



SHIP CH CRUISE 77-01 STATION 41 POSITION 39 59.80 N 71 43.90 W
 LOCAL TIME 925 DATE 77/ 5/ 7 WIND = knots DIR = DEPTH= 92M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	9.667	33.319	25.695	228.6	0.000	1487.0	0.0
5	9.406	33.343	25.756	222.9	.011	1486.2	5.0
10	8.760	33.396	25.900	209.4	.022	1483.9	10.1
15	8.182	33.483	26.056	194.6	.032	1481.9	15.1
20	5.962	33.853	26.651	138.1	.041	1473.7	20.1
25	5.756	33.794	26.630	140.2	.048	1472.9	25.2
30	5.325	33.830	26.710	132.6	.055	1471.3	30.2
35	5.165	33.823	26.723	131.4	.061	1470.7	35.2
40	5.073	33.824	26.735	130.4	.068	1470.4	40.2
45	5.091	33.832	26.739	130.0	.074	1470.6	45.3
50	5.117	33.838	26.741	129.9	.081	1470.8	50.3
55	5.151	33.844	26.742	129.8	.087	1471.0	55.3
60	5.351	33.885	26.750	129.1	.094	1472.0	60.4
65	5.447	33.902	26.753	129.0	.100	1472.5	65.4
70	5.462	33.906	26.754	128.9	.107	1472.6	70.4
75	5.460	33.910	26.757	128.7	.113	1472.7	75.5
80	5.516	33.935	26.770	127.5	.120	1473.0	80.5
85	6.261	34.098	26.806	124.3	.126	1476.3	85.6
90	7.694	34.381	26.833	122.1	.132	1482.4	90.6
91	7.797	34.517	26.925	113.5	.134	1483.0	92.0

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
0		33.341						
2	9.600	33.343						
23		33.847						
50	5.170	33.843						
74		34.300						
90	7.830	34.507						

SIGMA-T

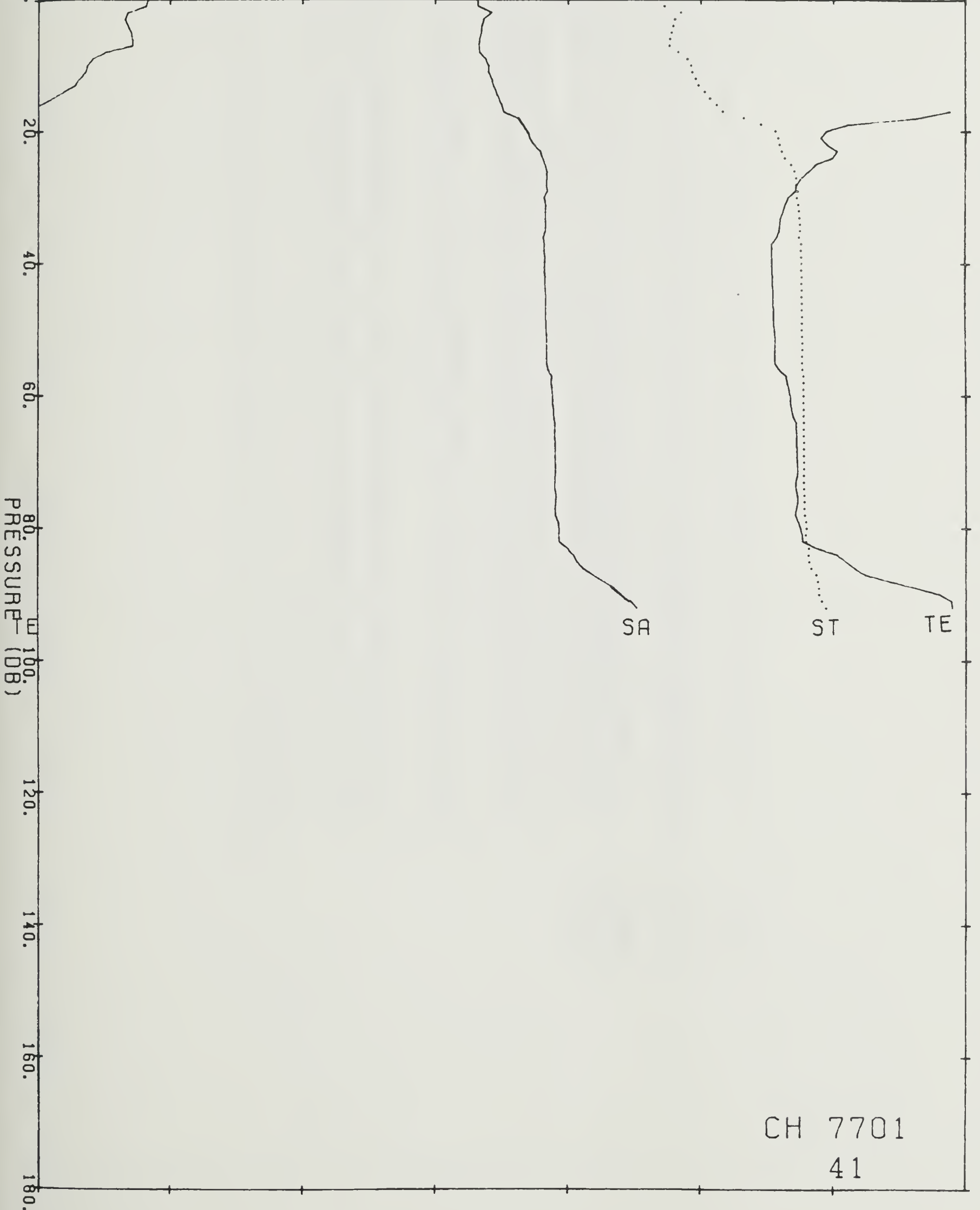
21. 22. 23. 24. 25. 26. 27. 28.

SALINITY (PPT)

30. 31. 32. 33. 34. 35. 36. 37.

TEMPERATURE (DEG C)

8. 10. 12. 14. 16. 18. 20. 22.



CH 7701

41

SHIP CH CRUISE 77-01 STATION 42 POSITION 39 51.20 N 71 18.00 W
 LOCAL TIME 1202 DATE 77/ 5/ 7 WIND = knots DIR = ' DEPTH= 446M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	15.698	35.357	26.092	190.9	0.000	1510.0	0.0
5	15.703	35.419	26.138	186.7	.010	1510.2	5.0
10	15.850	35.543	26.201	180.9	.019	1510.9	10.1
15	15.827	35.963	26.529	149.9	.027	1511.4	15.1
20	15.765	36.041	26.604	143.0	.034	1511.4	20.1
25	15.555	36.047	26.656	138.2	.042	1510.8	25.2
30	14.756	35.915	26.732	131.1	.048	1508.2	30.2
35	14.418	35.885	26.783	126.4	.055	1507.2	35.2
40	14.289	35.861	26.792	125.7	.061	1506.8	40.3
45	13.907	35.803	26.828	122.4	.067	1505.6	45.3
50	13.574	35.759	26.864	119.1	.073	1504.5	50.3
55	13.473	35.746	26.875	118.2	.079	1504.3	55.4
60	13.334	35.725	26.887	117.1	.085	1503.9	60.4
65	13.313	35.731	26.897	116.4	.091	1503.9	65.4
70	13.327	35.734	26.895	116.6	.097	1504.0	70.5
75	13.250	35.715	26.897	116.6	.103	1503.8	75.5
80	12.441	35.563	26.941	112.4	.109	1501.0	80.5
85	12.421	35.575	26.955	111.3	.114	1501.0	85.6
90	12.236	35.549	26.971	109.9	.120	1500.4	90.6
95	11.983	35.508	26.987	108.4	.125	1499.6	95.6
100	11.880	35.489	26.993	108.0	.131	1499.3	100.7
105	11.785	35.487	27.009	106.6	.136	1499.1	105.7
110	11.639	35.469	27.023	105.4	.142	1498.6	110.7
115	11.565	35.467	27.035	104.3	.147	1498.4	115.8
120	11.561	35.478	27.044	103.6	.152	1498.5	120.8
125	11.574	35.488	27.050	103.2	.157	1498.7	125.8
130	11.602	35.497	27.052	103.1	.163	1498.8	130.9
135	11.621	35.507	27.056	102.9	.168	1499.0	135.9
140	11.671	35.526	27.061	102.5	.173	1499.3	141.0
145	11.702	35.536	27.063	102.4	.178	1499.5	146.0
150	11.771	35.565	27.072	101.7	.183	1499.9	151.0
155	11.746	35.558	27.072	101.9	.188	1499.8	156.1
160	11.779	35.570	27.075	101.7	.193	1500.0	161.1
165	11.754	35.563	27.074	101.9	.199	1500.0	166.1
170	11.659	35.548	27.080	101.4	.204	1499.8	171.2
175	11.692	35.559	27.083	101.3	.209	1500.0	176.2
180	11.617	35.542	27.084	101.3	.214	1499.8	181.3
185	11.590	35.537	27.085	101.3	.219	1499.8	186.3
190	11.530	35.525	27.087	101.2	.224	1499.6	191.3
195	11.494	35.519	27.089	101.1	.229	1499.6	196.4
200	11.446	35.512	27.092	101.0	.234	1499.5	201.4
225	11.028	35.443	27.116	99.2	.260	1498.3	226.6
250	10.739	35.400	27.135	97.8	.284	1497.7	251.8
275	10.098	35.319	27.185	93.3	.308	1495.7	277.0
300	9.063	35.205	27.269	85.4	.331	1492.1	302.2
325	8.522	35.164	27.323	80.5	.352	1490.5	327.4
350	8.411	35.157	27.335	79.7	.372	1490.4	352.6
375	8.109	35.139	27.367	76.9	.392	1489.7	377.9
400	7.542	35.111	27.429	71.0	.410	1487.9	403.1
425	7.147	35.081	27.462	68.0	.428	1486.7	428.3
443	6.978	34.976	27.403	73.7	.440	1486.2	446.0

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
0		33.727						
22	15.620	36.063						
102		35.507						
198	11.400	35.509						
297		35.183						
439	6.990	35.080						

SIGMA-T

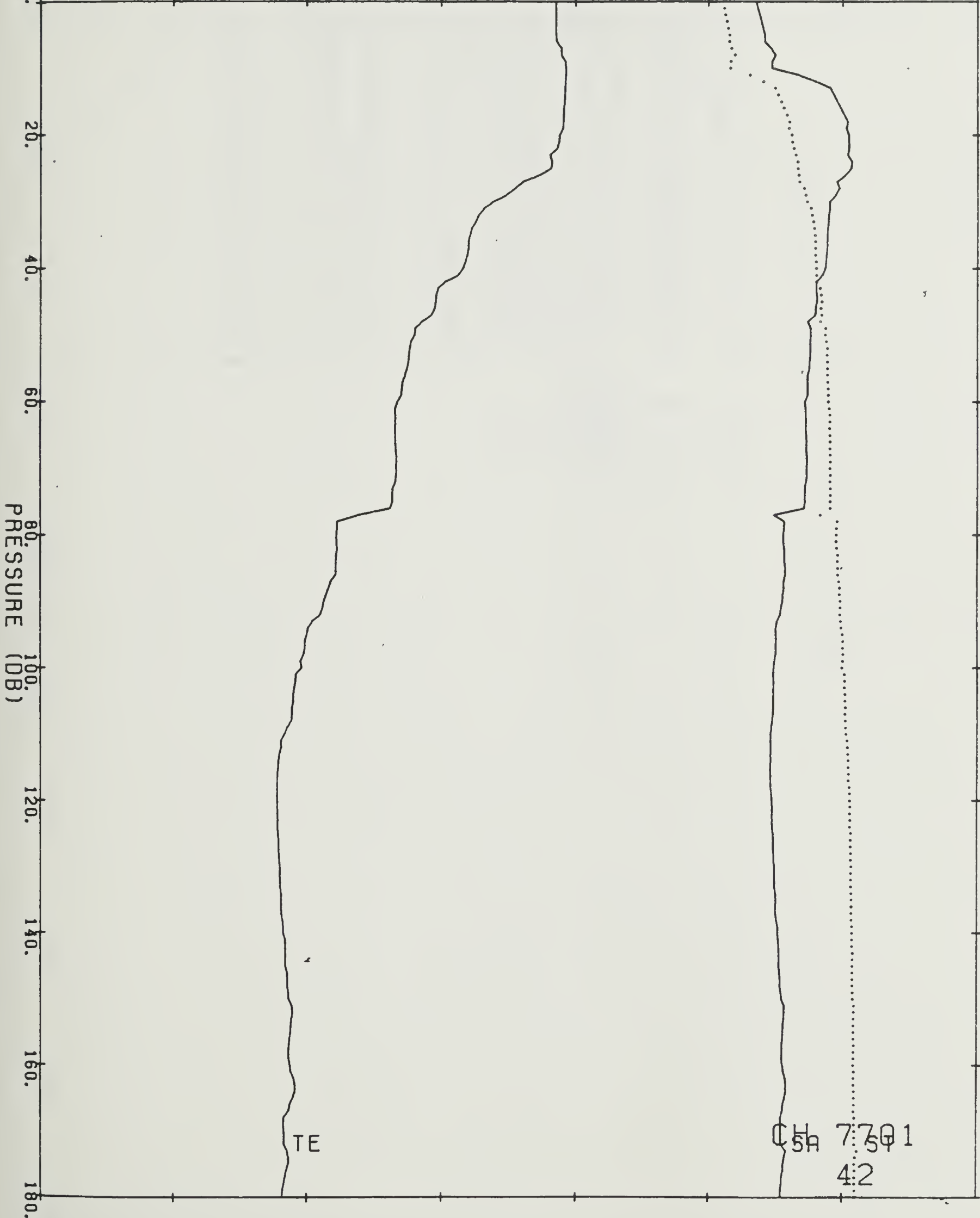
21. 22. 23. 24. 25. 26. 27. 28.

SALINITY (PPT)

30. 31. 32. 33. 34. 35. 36. 37.

TEMPERATURE (DEG C)

80. 10. 12. 14. 16. 18. 20. 22.



SHIP CH CRUISE 77-01 STATION 43 POSITION 39 59.30 N 71 43.40 W
 LOCAL TIME 1435 DATE 77/ 5/ 7 WIND = knots DIR = DEPTH= 96M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	9.776	33.260	25.631	234.7	0.000	1487.3	0.0
5	9.682	33.285	25.667	231.5	.012	1487.1	5.0
10	9.080	33.512	25.941	205.5	.023	1485.2	10.0
15	8.810	33.506	25.978	202.0	.033	1484.3	15.0
20	6.604	33.727	26.469	155.4	.042	1476.1	20.1
25	5.138	33.735	26.657	137.6	.050	1470.3	25.4
30	5.209	33.794	26.696	134.0	.056	1470.8	30.2
35	5.264	33.816	26.706	133.1	.063	1471.1	35.2
40	5.156	33.837	26.736	130.3	.069	1470.8	40.2
45	5.121	33.846	26.747	129.3	.076	1470.7	45.2
50	5.204	33.871	26.757	128.4	.082	1471.2	50.3
55	5.365	33.906	26.766	127.6	.089	1472.0	55.4
60	5.363	33.914	26.773	127.0	.095	1472.0	60.4
65	5.386	33.921	26.775	126.9	.102	1472.2	65.4
70	5.407	33.926	26.777	126.7	.108	1472.4	70.4
75	5.424	33.943	26.788	125.7	.114	1472.6	75.4
80	5.456	33.949	26.789	125.7	.121	1472.8	80.6
85	5.698	33.981	26.785	126.2	.127	1473.9	85.6
90	5.764	34.026	26.812	123.7	.133	1474.3	90.6
93	5.792	34.044	26.824	122.7	.138	1474.5	94.0

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
0		33.297						
9	8.890	33.547	7.60					
24		33.733	7.64					
48	5.210	33.837	6.02					
72		33.904	5.59					
92	5.730	33.975						

SIGMA-T

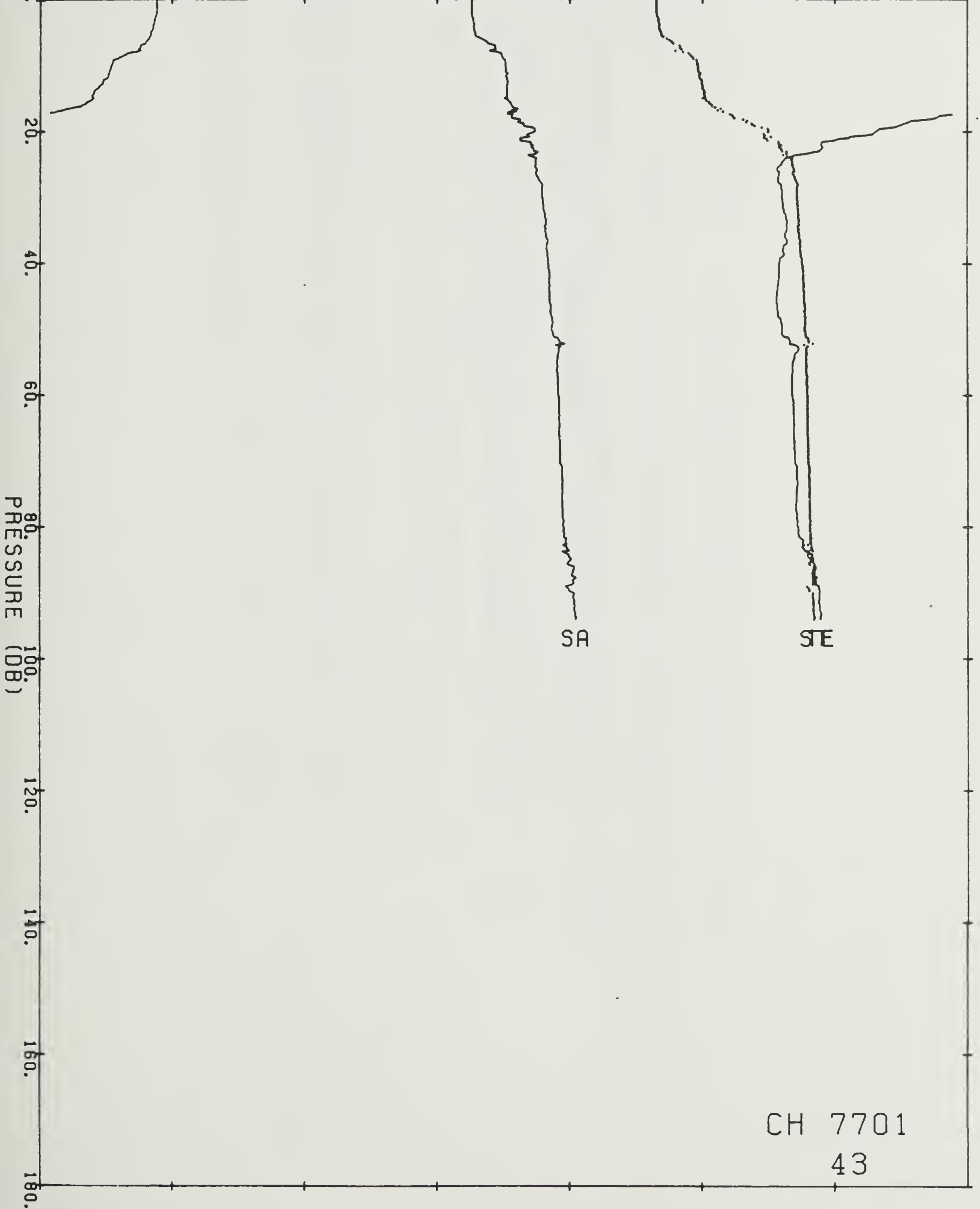
21. 22. 23. 24. 25. 26. 27. 28.

SALINITY (PPT)

30. 31. 32. 33. 34. 35. 36. 37.

TEMPERATURE (DEG C)

8. 10. 12. 14. 16. 18. 20. 22.



CH 7701
43

SHIP CH CRUISE 77-01 STATION 44 POSITION 39 51.40 N 71 32.10 W
 LOCAL TIME '1706 DATE 77/ 5/ 7 WIND = knots DIR = DEPTH= 439M

DTH	TEM	SAL	SGT	ANC	OYN	SVL	PRS
0	12.275	33.828	25.627	235.1	0.000	1496.9	0.0
5	14.002	34.375	25.704	227.9	.012	1503.5	5.0
10	15.385	35.261	26.088	191.6	.022	1509.1	10.1
15	16.415	35.666	26.165	184.5	.032	1512.8	15.1
20	16.564	35.891	26.303	171.6	.041	1513.6	20.1
25	15.277	35.644	26.408	161.7	.049	1509.5	25.2
30	13.733	35.179	26.382	164.2	.057	1504.0	30.2
35	14.002	35.477	26.556	147.9	.065	1505.4	35.2
40	15.272	36.019	26.698	134.6	.072	1510.2	40.2
45	15.083	35.970	26.703	134.3	.079	1509.6	45.3
50	14.400	35.850	26.759	129.1	.086	1507.3	50.3
55	13.594	35.679	26.798	125.5	.092	1504.6	55.3
60	12.340	35.406	26.839	121.6	.098	1500.1	60.4
65	10.984	35.154	26.899	115.9	.104	1495.2	65.4
70	11.415	35.249	26.893	116.6	.110	1496.9	70.4
75	11.760	35.371	26.924	113.9	.116	1498.3	75.5
80	12.190	35.524	26.960	110.6	.121	1500.1	80.5
85	11.579	35.302	26.904	116.0	.127	1497.8	85.6
90	11.311	35.333	26.978	109.0	.133	1497.0	90.6
95	11.639	35.440	27.000	107.1	.138	1498.3	95.6
100	11.881	35.499	27.000	107.3	.144	1499.3	100.7
105	11.746	35.483	27.013	106.2	.149	1498.9	105.7
110	11.665	35.479	27.026	105.1	.154	1498.7	110.7
115	11.650	35.482	27.031	104.7	.160	1498.8	115.8
120	11.624	35.487	27.039	104.0	.165	1498.8	120.8
125	11.584	35.487	27.048	103.4	.170	1498.7	125.8
130	11.616	35.512	27.060	102.3	.175	1498.9	130.9
135	11.688	35.529	27.060	102.5	.180	1499.3	135.9
140	11.691	35.531	27.061	102.5	.186	1499.4	140.9
145	11.705	35.542	27.067	102.1	.191	1499.5	146.0
150	11.664	35.533	27.068	102.1	.196	1499.4	151.0
155	11.633	35.532	27.073	101.7	.201	1499.4	156.1
160	11.629	35.528	27.071	102.1	.206	1499.5	161.1
165	11.616	35.531	27.076	101.7	.211	1499.5	166.1
170	11.655	35.544	27.078	101.6	.216	1499.7	171.2
175	11.671	35.555	27.084	101.2	.222	1499.9	176.2
180	11.606	35.557	27.098	100.0	.227	1499.8	181.2
185	11.551	35.526	27.084	101.4	.232	1499.6	186.3
190	11.517	35.523	27.088	101.1	.237	1499.6	191.3
195	11.473	35.515	27.090	101.1	.242	1499.5	196.4
200	11.404	35.500	27.091	101.0	.247	1499.3	201.4
225	10.626	35.332	27.102	100.3	.272	1496.8	226.6
250	10.806	35.396	27.120	99.3	.298	1497.9	251.8
275	10.488	35.354	27.144	97.5	.322	1497.1	277.0
300	9.651	35.266	27.219	90.4	.346	1494.4	302.2
325	9.011	35.205	27.277	85.1	.368	1492.3	327.4
350	8.315	35.149	27.343	78.8	.389	1490.1	352.6
375	8.157	35.145	27.365	77.2	.408	1489.9	377.8
400	8.101	35.142	27.371	77.0	.428	1490.1	403.1
405	8.095	35.127	27.360	78.1	.432	1490.1	408.0

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
8	16.410	35.531	6.22					
98		35.505	5.60					
192	11.440	35.516	5.21					
287		35.306	4.19					
401	8.080	35.144						

SIGMA-T

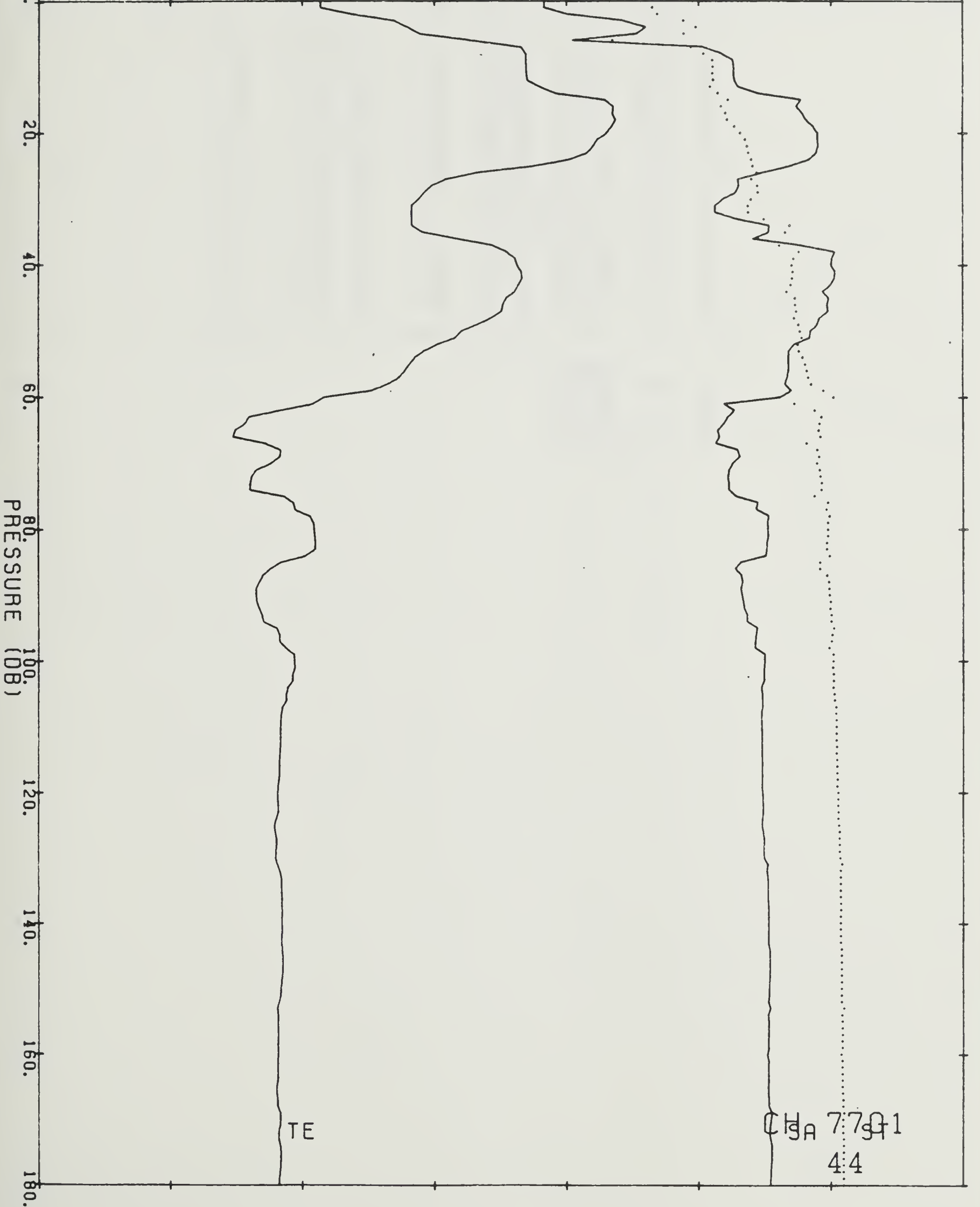
21. 22. 23. 24. 25. 26. 27. 28.

SALINITY (PPT)

30. 31. 32. 33. 34. 35. 36. 37.

TEMPERATURE (DEG C)

8. 10. 12. 14. 16. 18. 20. 22.



TE

CHA 7:791
44

SHIP CH CRUISE 77-01 STATION 45 POSITION 39 57.50 N 71 42.40 W
 LOCAL TIME 2020 DATE 77/ 5/ 7 WIND = knots DIR = DEPTH= 91M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	9.894	33.438	25.750	223.4	0.000	1488.0	0.0
5	9.664	33.490	25.830	216.0	.011	1487.3	5.0
10	9.227	33.603	25.989	200.9	.021	1485.9	10.0
15	9.037	33.643	26.050	195.2	.031	1485.3	15.0
20	8.891	33.653	26.081	192.4	.041	1484.9	20.1
25	8.505	33.638	26.129	187.9	.051	1483.5	25.4
30	7.876	33.833	26.376	164.5	.060	1481.4	30.2
35	6.337	33.762	26.532	149.6	.068	1475.4	35.2
40	5.954	34.359	27.052	100.4	.074	1474.7	40.2
45	6.700	34.010	26.680	135.8	.080	1477.3	45.2
50	8.239	32.930	25.614	237.2	.089	1482.0	50.3
55	7.677	33.850	26.418	160.8	.099	1481.1	55.4
60	6.818	35.101	27.524	56.1	.105	1479.5	60.4
65	7.528	34.775	27.167	90.0	.108	1481.9	65.4
70	8.225	34.470	26.824	122.7	.114	1484.2	70.4
75	8.342	34.738	27.017	104.6	.119	1485.1	75.4
80	8.436	34.703	26.975	108.7	.125	1485.5	80.6
85	8.435	34.709	26.979	108.3	.130	1485.6	85.6
90	8.446	34.711	26.979	108.4	.136	1485.7	90.6
90	8.450	34.714	26.981	108.3	.136	1485.7	91.0

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
0		33.371						
23	7.930	33.743						
32		33.769						
59	7.460	34.353						
68		34.520						
90	8.610	34.718						

SIGMA-T

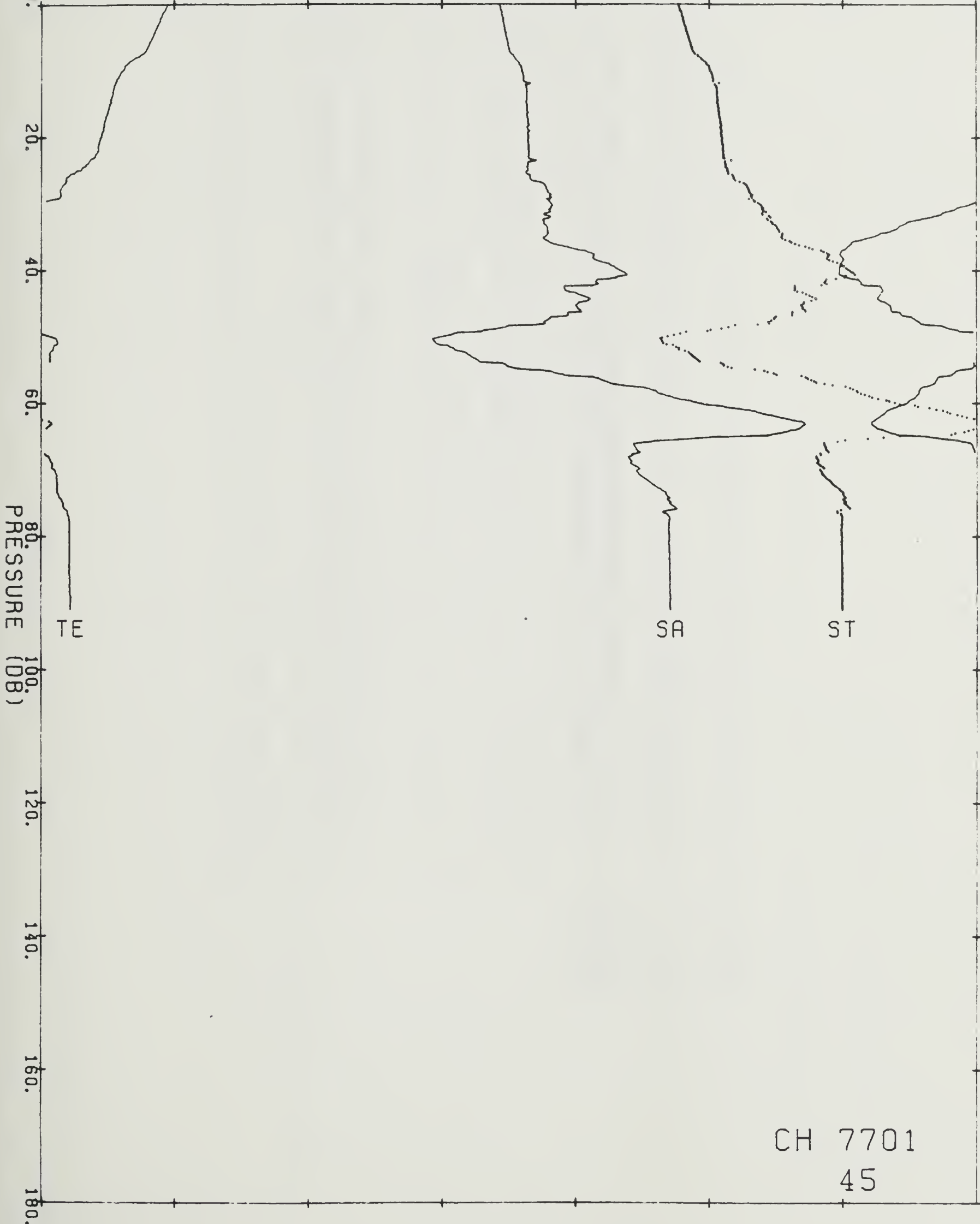
21. 22. 23. 24. 25. 26. 27. 28.

SALINITY (PPT)

30. 31. 32. 33. 34. 35. 36. 37.

TEMPERATURE (DEG C)

8. 10. 12. 14. 16. 18. 20. 22.



CH 7701

45

SHIP CH CRUISE 77-01 STATION 46 POSITION 39 49.60 N 71 29.60 W
 LOCAL TIME 2153 DATE 77/ 5/ 7 WIND = knots DIR = DEPTH= 459M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	14.747	34.729	25.819	216.9	0.000	1506.3	0.0
5	15.028	34.785	25.801	218.7	.011	1507.3	5.0
10	15.547	35.149	25.966	203.2	.022	1509.5	10.1
15	16.143	35.421	26.040	196.4	.032	1511.7	15.1
20	16.215	35.969	26.444	158.1	.041	1512.7	20.1
25	15.409	35.922	26.593	144.2	.048	1510.2	25.2
30	15.070	35.947	26.688	135.3	.055	1509.3	30.2
35	14.350	35.833	26.757	128.8	.062	1506.9	35.2
40	13.881	35.729	26.777	127.1	.068	1505.4	40.2
45	12.773	35.674	26.962	109.6	.074	1501.7	45.3
50	12.749	35.548	26.869	118.6	.080	1501.5	50.3
55	12.399	35.505	26.905	115.2	.086	1500.4	55.3
60	12.426	35.541	26.927	113.3	.092	1500.6	60.4
65	12.527	35.580	26.937	112.4	.097	1501.1	65.4
70	12.457	35.571	26.945	111.9	.103	1500.9	70.4
75	12.360	35.614	26.997	107.1	.108	1500.7	75.5
80	12.123	35.519	26.969	109.8	.114	1499.9	80.5
85	11.896	35.504	27.001	106.8	.119	1499.1	85.6
90	11.788	35.472	26.997	107.3	.125	1498.8	90.6
95	11.681	35.470	27.016	105.7	.130	1498.5	95.6
100	11.679	35.475	27.020	105.4	.135	1498.6	100.7
105	11.713	35.496	27.030	104.6	.141	1498.8	105.7
110	11.736	35.534	27.055	102.3	.146	1499.0	110.7
115	11.652	35.495	27.040	103.8	.151	1498.8	115.8
120	11.541	35.486	27.054	102.6	.156	1498.5	120.8
125	11.692	35.534	27.064	101.9	.161	1499.1	125.8
130	11.608	35.531	27.077	100.7	.167	1498.9	130.9
135	11.769	35.568	27.075	101.0	.172	1499.6	135.9
140	11.776	35.566	27.072	101.4	.177	1499.7	141.0
145	11.761	35.562	27.072	101.6	.182	1499.7	146.0
150	11.727	35.556	27.074	101.6	.187	1499.7	151.0
155	11.719	35.561	27.080	101.1	.192	1499.7	156.1
160	11.703	35.559	27.081	101.2	.197	1499.8	161.1
165	11.667	35.554	27.084	101.0	.202	1499.7	166.1
170	11.636	35.549	27.085	100.9	.207	1499.7	171.2
175	11.535	35.523	27.084	101.1	.212	1499.4	176.2
180	11.482	35.519	27.091	100.6	.218	1499.3	181.2
185	11.363	35.493	27.093	100.5	.223	1498.9	186.3
190	11.304	35.484	27.097	100.2	.228	1498.8	191.3
195	11.223	35.468	27.100	100.1	.233	1498.6	196.4
200	11.154	35.458	27.105	99.7	.238	1498.4	201.4
225	10.903	35.415	27.117	99.0	.263	1497.8	226.6
250	10.672	35.385	27.136	97.7	.288	1497.4	251.8
275	10.171	35.318	27.171	94.7	.312	1495.9	277.0
300	9.406	35.232	27.234	88.8	.335	1493.4	302.2
325	8.990	35.196	27.274	85.4	.357	1492.3	327.4
350	8.401	35.192	27.364	76.9	.377	1490.4	352.6
375	7.845	35.125	27.396	74.0	.396	1488.7	377.9
400	7.053	35.077	27.473	66.5	.414	1485.9	403.1
425	6.585	35.068	27.530	61.1	.430	1484.5	428.3
450	6.456	35.050	27.533	61.0	.446	1484.4	453.5
455	6.452	35.051	27.534	61.1	.449	1484.4	459.0

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
0		34.766						
46	13.540	35.789						
98		35.558						
199	11.090	35.470						
392		35.232						
453	6.520	35.064						

SIGMA-T

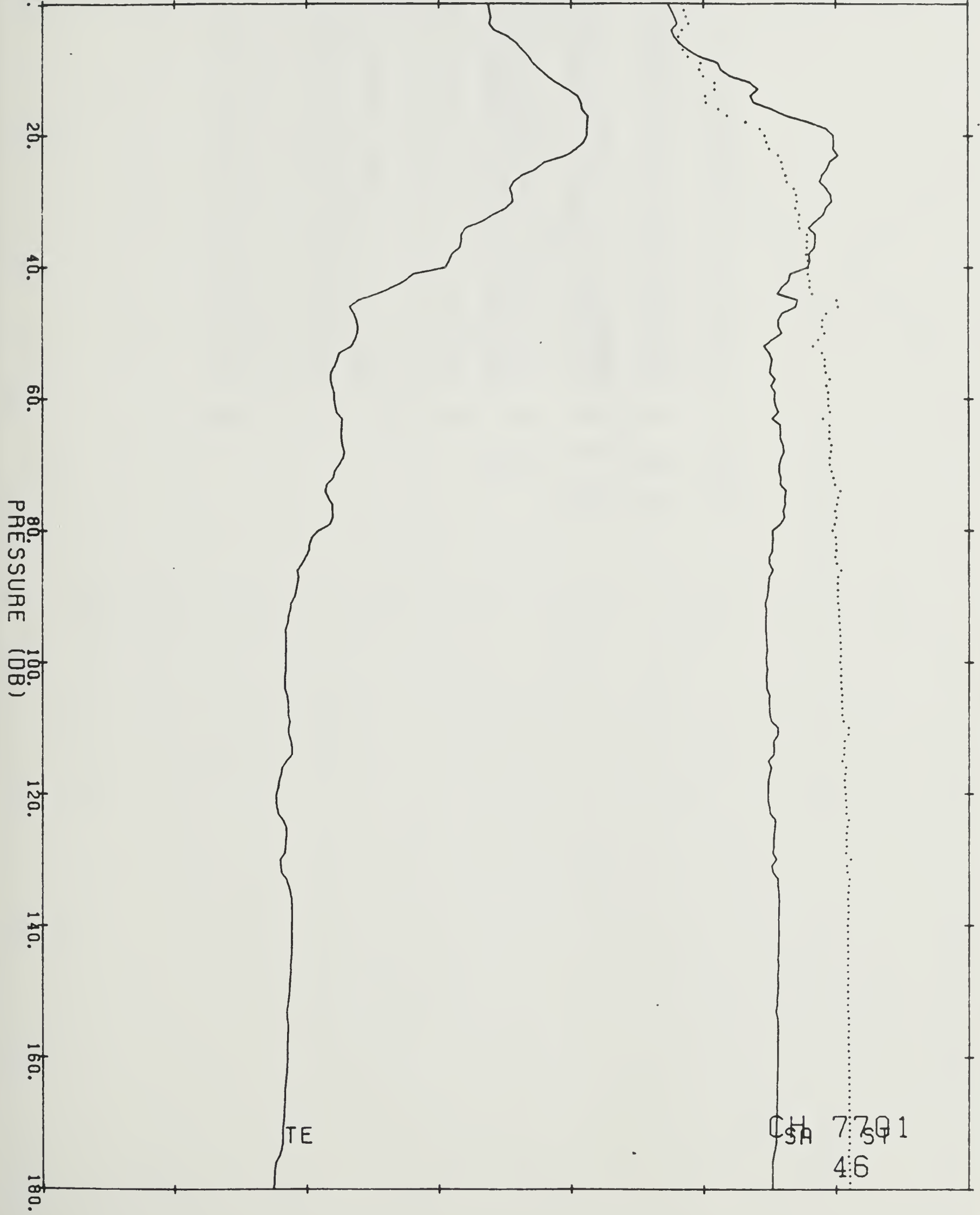
21. 22. 23. 24. 25. 26. 27. 28.

SALINITY (PPT)

30. 31. 32. 33. 34. 35. 36. 37.

TEMPERATURE (DEG C)

8. 10. 12. 14. 16. 18. 20. 22.



TE

CH 7:30 4:6

SHIP CH CRUISE 77-01 STATION 47 POSITION 39 50.60 N 72 8.50 W
 LOCAL TIME 450 DATE 77/ 5/ 8 WIND = knots DIR = DEPTH= 119M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	9.716	33.432	25.776	221.0	0.000	1487.3	0.0
5	9.699	33.437	25.782	220.5	.011	1487.4	5.0
10	9.584	33.469	25.826	216.4	.022	1487.1	10.0
15	9.156	33.627	26.019	198.2	.032	1485.8	15.0
20	8.466	33.721	26.200	181.0	.042	1483.4	20.1
25	7.990	33.761	26.303	171.3	.051	1481.7	25.1
30	7.696	33.788	26.367	165.4	.059	1480.7	30.2
35	6.744	33.898	26.585	144.6	.067	1477.2	35.2
40	6.454	34.006	26.709	132.9	.074	1476.2	40.2
45	7.001	34.215	26.801	124.4	.081	1478.8	45.2
50	7.465	34.334	26.829	121.8	.087	1480.8	50.3
55	7.491	34.360	26.846	120.3	.093	1481.0	55.4
60	7.577	34.401	26.866	118.5	.099	1481.5	60.4
65	7.928	34.529	26.915	114.0	.105	1483.1	65.4
70	8.219	34.621	26.944	111.4	.110	1484.4	70.4
75	8.595	34.769	27.002	106.0	.116	1486.1	75.4
80	8.789	34.781	26.981	108.2	.121	1486.9	80.6
85	8.816	34.787	26.981	108.2	.127	1487.1	85.6
90	8.802	34.793	26.988	107.7	.132	1487.2	90.6
95	8.929	34.833	26.999	106.7	.138	1487.8	95.6
100	8.857	34.826	27.005	106.3	.143	1487.6	100.6
105	8.795	34.822	27.011	105.7	.148	1487.4	105.6
110	8.703	34.822	27.026	104.4	.154	1487.2	110.8
115	8.802	34.871	27.049	102.3	.159	1487.7	115.8
117	8.910	34.907	27.060	101.4	.161	1488.2	118.0

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
0		33.469	7.23					
34	7.030		7.08					
98		34.782	5.19					
109	8.770	34.816						

SIGMA-T

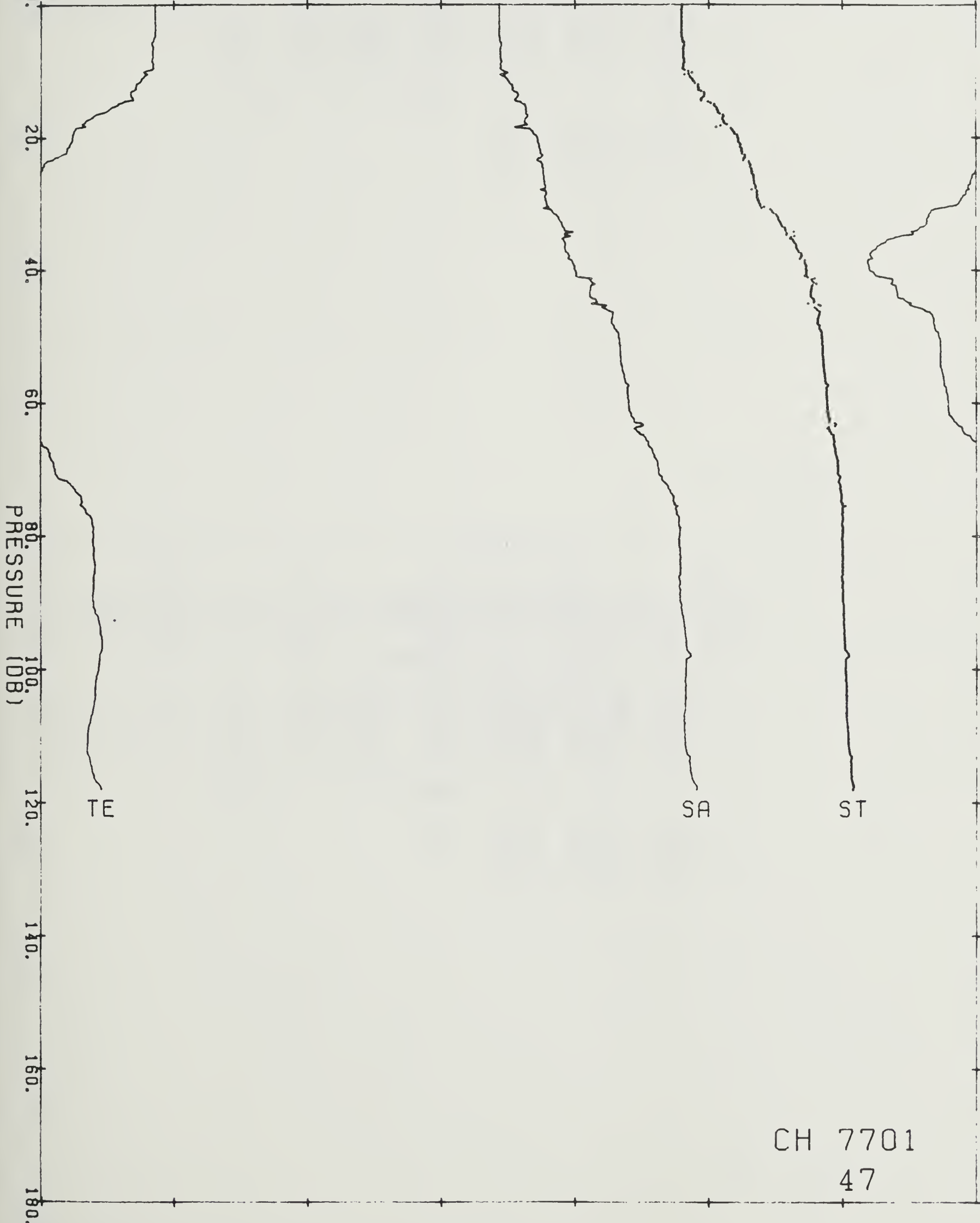
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30. 31. 32. 33. 34. 35. 36. 37.

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8. 10. 12. 14. 16. 18. 20. 22.



CH 7701

47

SHIP CH CRUISE 77-01 STATION 48 POSITION 40 28.50 N 73 53.70 W
 LOCAL TIME 713 DATE 77/ 5/ 9 WIND = knots DIR = DEPTH= 16M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	9.376	29.139	22.477	535.5	0.000	1480.6	0.0
5	7.251	32.215	25.192	276.5	.020	1476.5	5.0
10	6.661	32.812	25.741	224.5	.033	1475.0	10.0
11	6.649	32.813	25.743	224.2	.034	1475.0	10.6

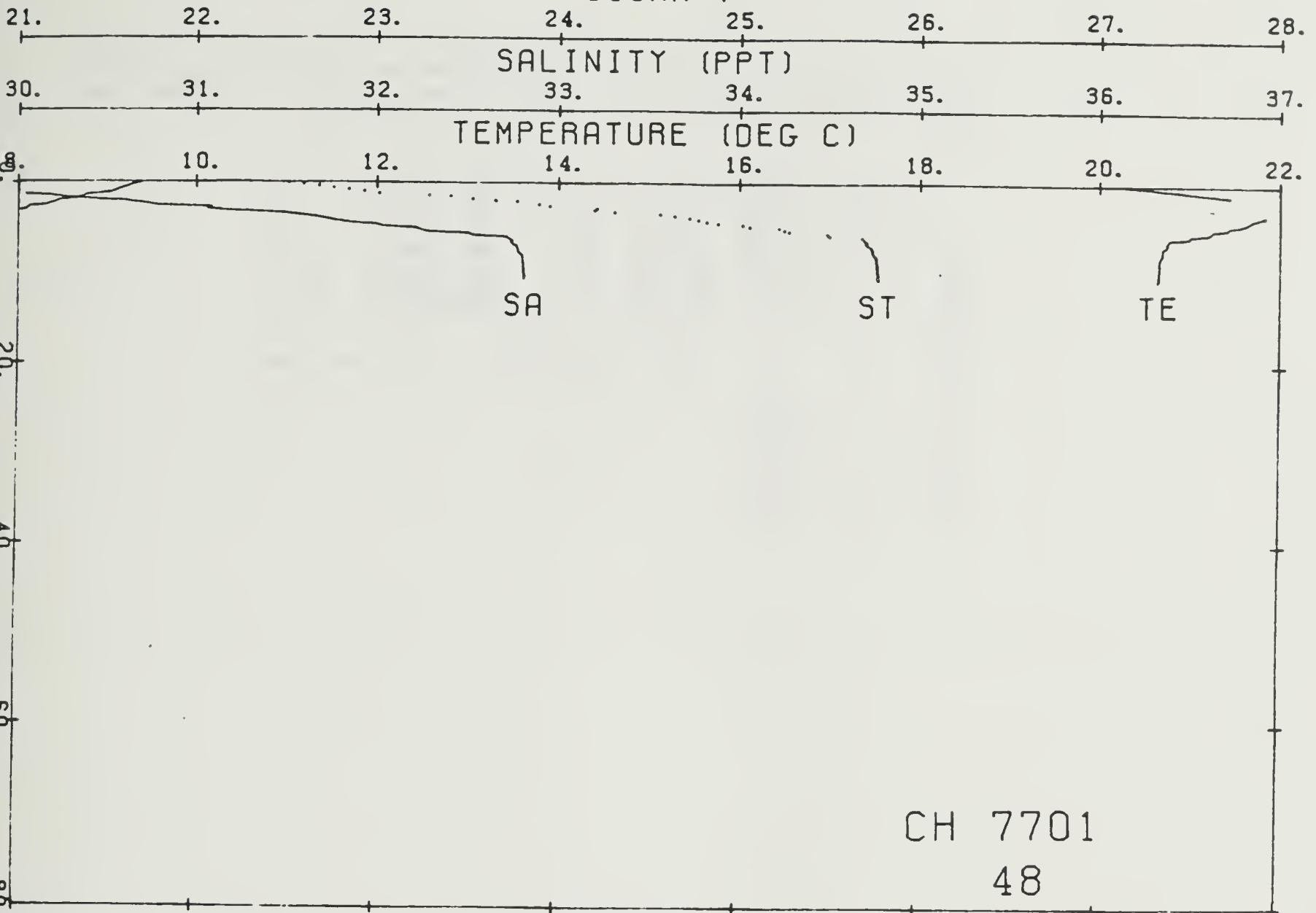
DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
0	9.740	27.639	6.21					
4	6.760	32.486	6.20					
8	6.650	32.856	6.01					

SHIP CH CRUISE 77-01 STATION 49 POSITION 40 19.90 N 73 51.80 W
 LOCAL TIME 903 DATE 77/ 5/ 7 WIND = knots DIR = DEPTH= 24M

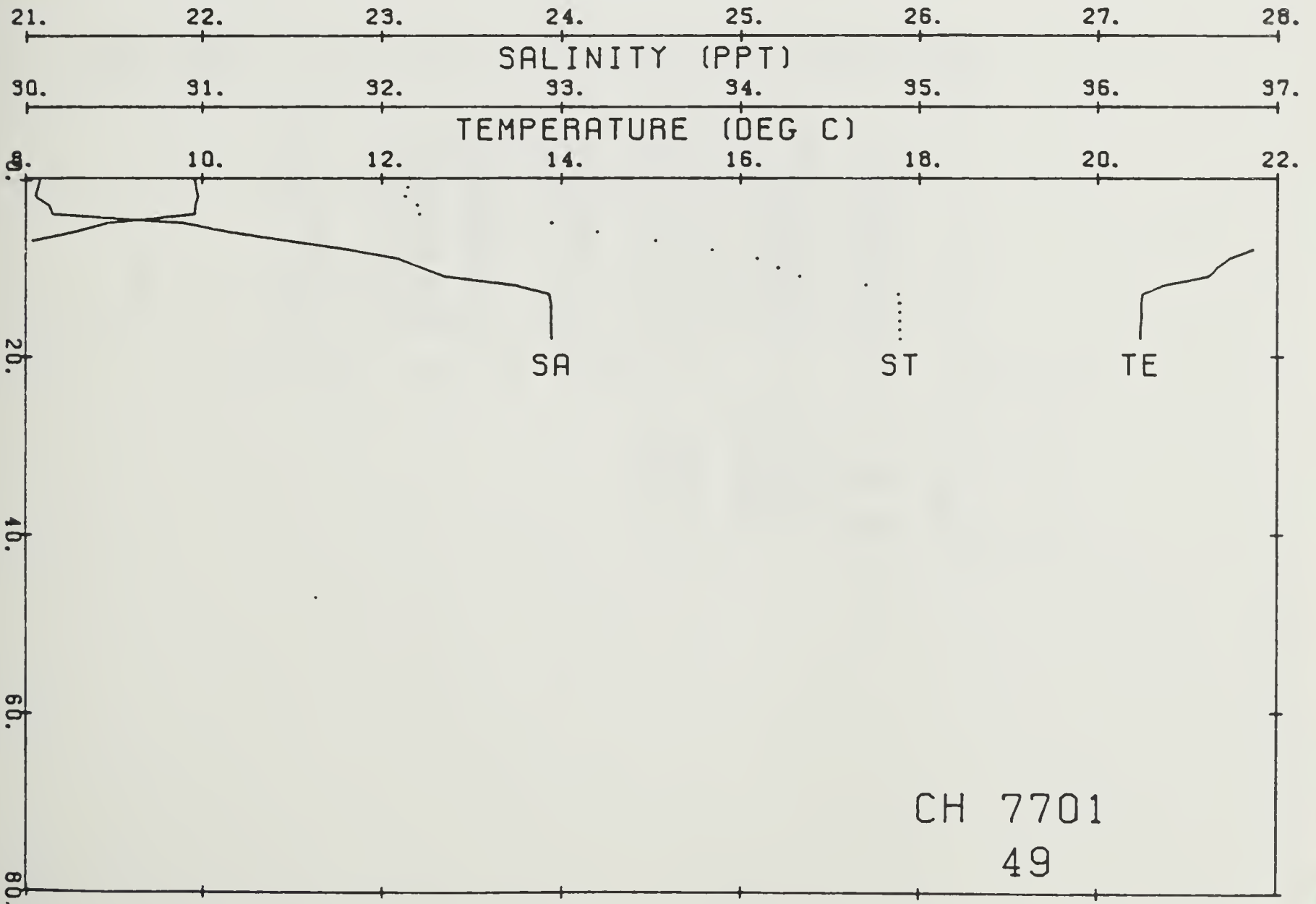
DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	9.914	30.083	23.130	473.1	0.000	1483.8	0.0
5	9.108	30.747	23.773	411.7	.022	1481.7	5.0
10	7.335	32.228	25.191	276.7	.040	1476.9	10.1
15	6.486	32.942	25.866	212.6	.052	1474.6	15.1
18	6.480	32.945	25.869	212.4	.058	1474.6	18.0

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
0		29.949	6.95					
3	9.620	30.062	6.95					
11	6.550	32.363	6.05					
16	6.470	32.944	6.34					

SIGMA-T



SIGMA-T



SHIP CH CRUISE 77-01 STATION 50 POSITION 39 54.30 N 73 44.30 W
 LOCAL TIME 1207 DATE 77/ 5/ 9 WIND = knots DIR = DEPTH= 31M

DTH	TEM	SAL	SGT	AND	DYN	SVL	PRS
0	9.556	31.988	24.673	325.9	0.000	1484.9	0.0
5	9.493	32.023	24.711	322.4	.016	1484.8	5.0
10	8.869	32.180	24.931	301.5	.032	1482.7	10.0
15	4.796	32.908	26.040	196.0	.044	1467.6	15.0
20	4.411	33.100	26.233	177.7	.054	1466.4	20.1
25	4.365	33.112	26.248	176.4	.063	1466.3	25.1
30	4.349	33.120	26.255	175.7	.071	1466.3	29.8

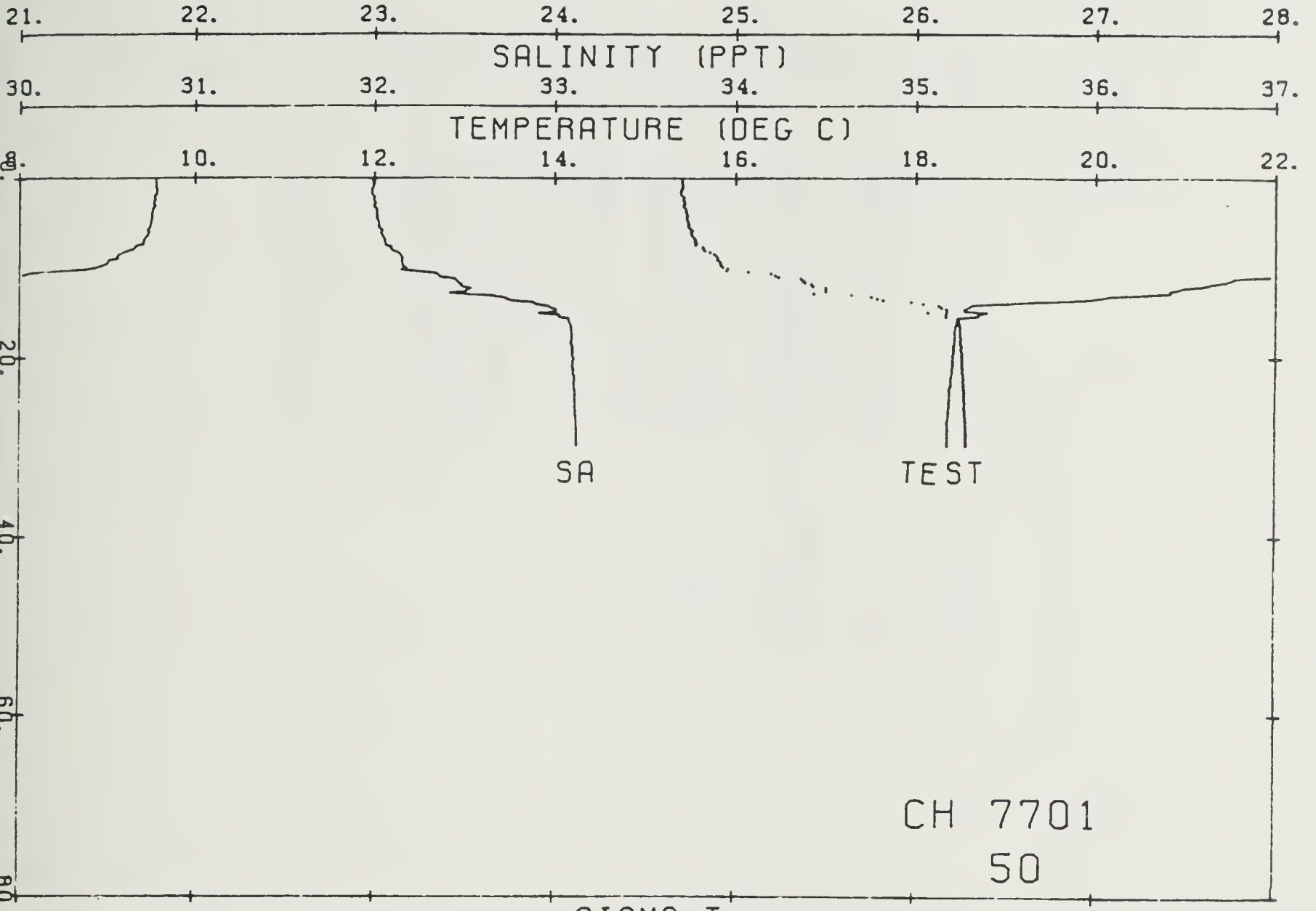
DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
0		32.024						
4	9.440	32.087						
10		32.562						
15	4.440	32.971						
20		33.086						
28	4.350	33.098						

SHIP CH CRUISE 77-01 STATION 51 POSITION 39 53.40 N 73 26.10 W
 LOCAL TIME 1431 DATE 77/ 5/ 9 WIND = knots DIR = DEPTH= 42M

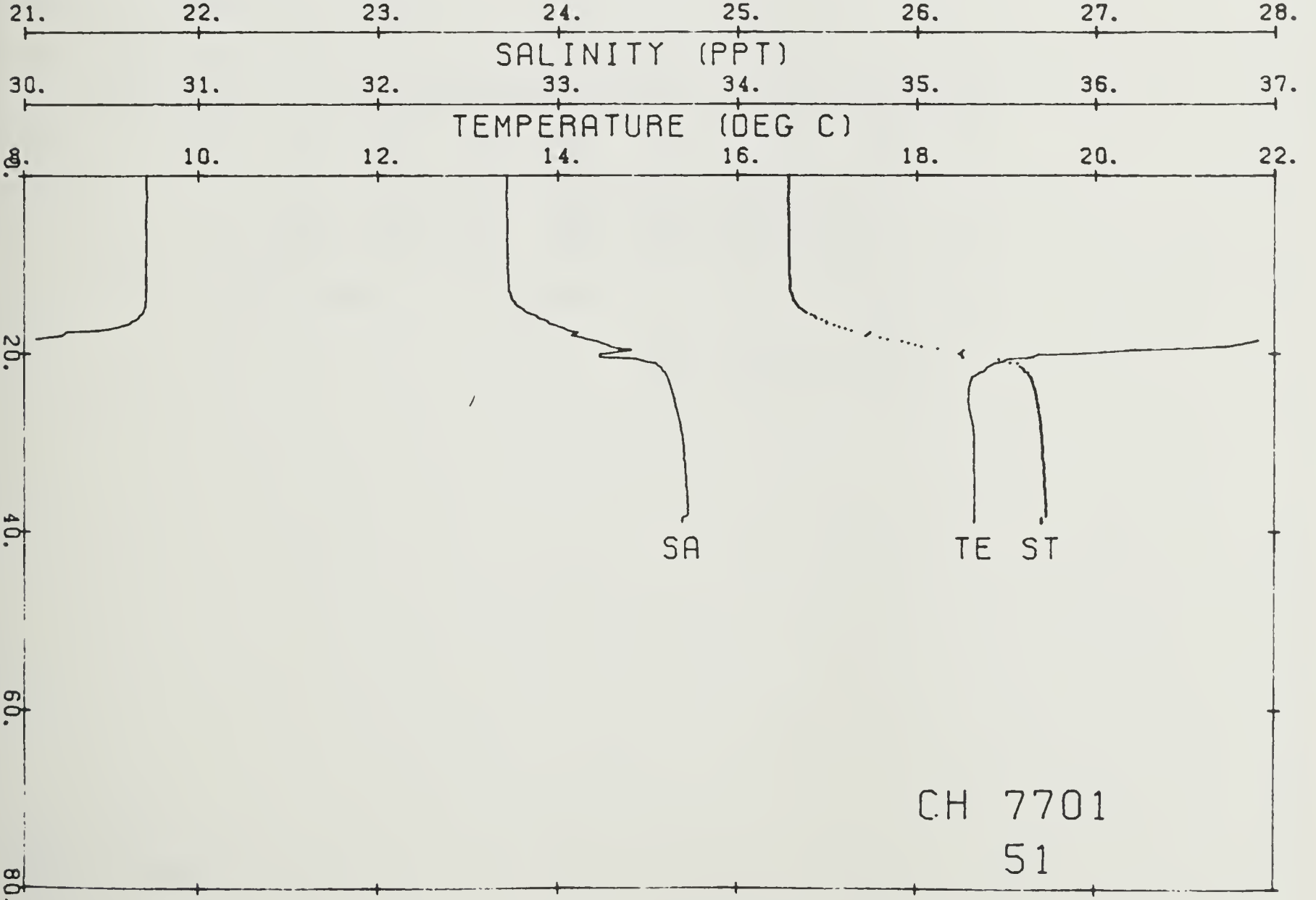
DTH	TEM	SAL	SGT	AND	DYN	SVL	PRS
0	9.410	32.713	25.264	269.7	0.000	1485.3	0.0
5	9.407	32.715	25.265	269.6	.013	1485.4	5.0
10	9.406	32.719	25.268	269.4	.027	1485.4	10.0
15	9.387	32.805	25.339	262.8	.040	1485.6	15.0
20	5.346	33.221	26.226	178.4	.052	1470.4	20.1
25	4.575	33.645	26.648	138.4	.059	1467.9	25.1
30	4.646	33.696	26.681	135.3	.066	1468.3	30.2
35	4.649	33.717	26.697	133.8	.073	1468.4	35.2
39	4.647	33.688	26.674	136.0	.078	1468.4	39.0

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
0		32.706						
2	9.430	32.705	6.93					
8		32.703	6.90					
19	5.260	33.528	6.64					
28		33.676	6.04					
38	4.640	33.702						

SIGMA-T



SIGMA-T



SHIP CH CRUISE 77-01 STATION 52 POSITION 39 58.40 N 73 22.10 W
 LOCAL TIME 1714 DATE 77/ 5/ 9 WIND = knots DIR = DEPTH= 64M

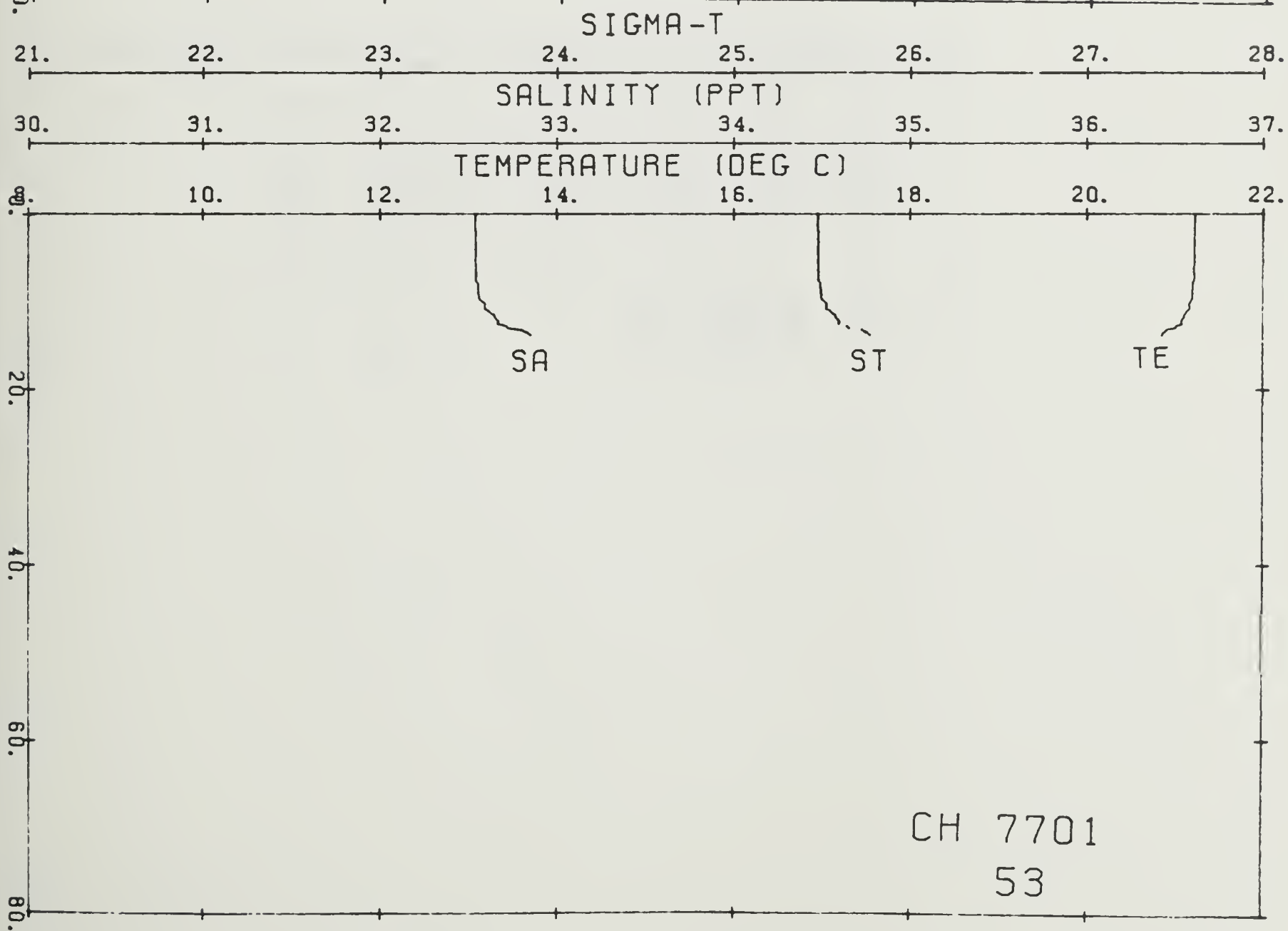
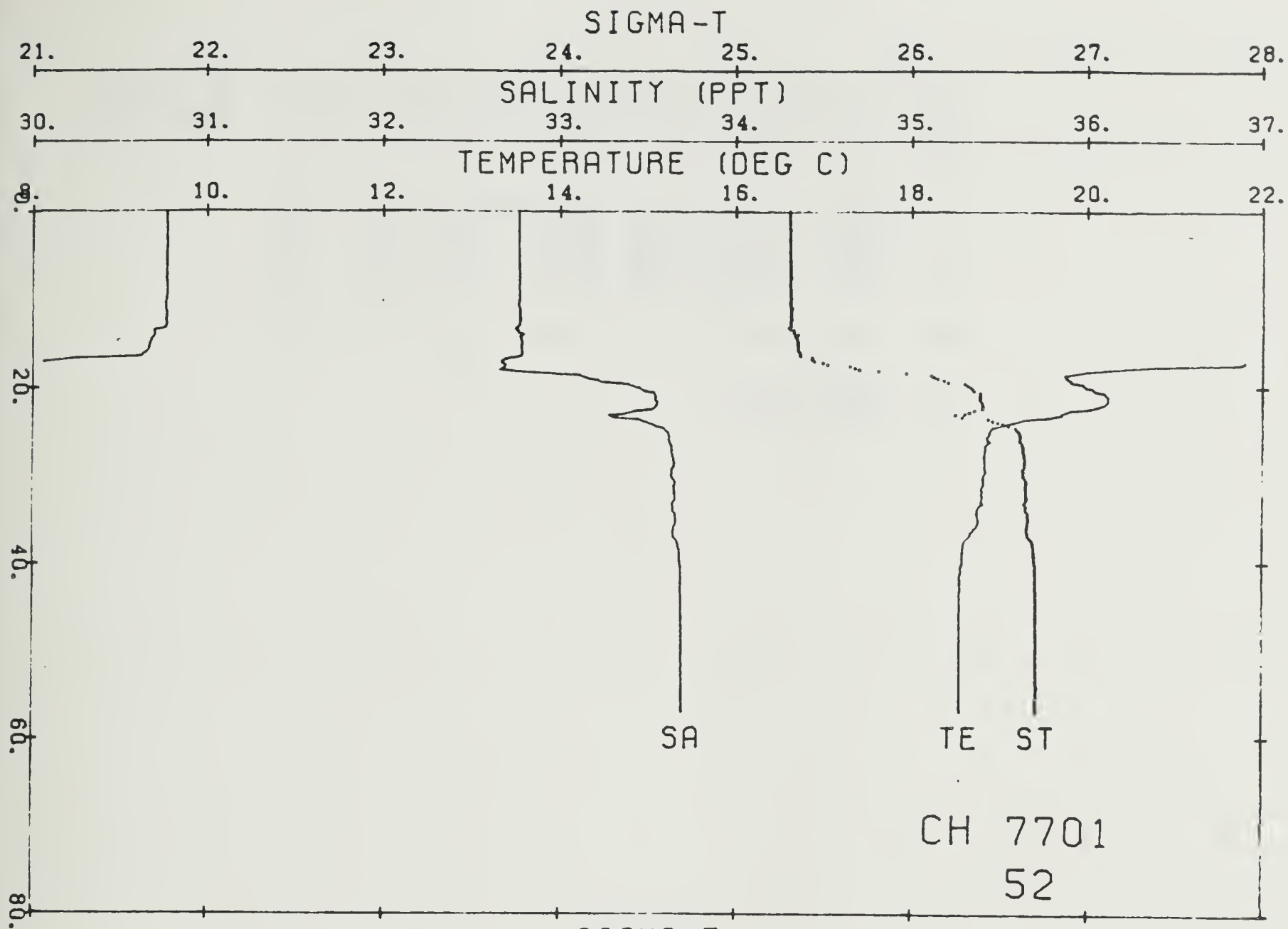
DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	9.540	32.769	25.286	267.5	0.000	1485.8	0.0
5	9.539	32.773	25.289	267.3	.013	1485.9	5.0
10	9.539	32.774	25.290	267.3	.027	1486.0	10.0
15	9.340	32.786	25.332	263.5	.040	1485.4	15.0
20	6.063	33.461	26.329	168.7	.051	1473.6	20.1
25	4.885	33.622	26.596	143.4	.059	1469.1	25.1
30	4.815	33.643	26.620	141.1	.066	1468.9	30.2
35	4.763	33.666	26.645	138.8	.073	1468.8	35.2
40	4.579	33.691	26.684	135.1	.080	1468.2	40.2
45	4.553	33.696	26.691	134.5	.087	1468.2	45.2
50	4.553	33.701	26.695	134.2	.094	1468.2	50.3
55	4.553	33.703	26.696	134.1	.100	1468.3	55.4
57	4.554	33.703	26.697	134.1	.103	1468.4	57.0

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
0		32.768						
9	9.540	32.761	6.94					
20		33.061	7.88					
30	4.760	33.624	6.38					
40		33.661	5.38					
53	4.550	33.674						

SHIP CH CRUISE 77-01 STATION 53 POSITION 40 32.60 N 73 45.10 W
 LOCAL TIME 823 DATE 77/ 5/10 WIND = knots DIR = DEPTH= 16M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	7.218	32.536	25.449	252.1	0.000	1476.7	0.0
5	7.214	32.536	25.450	252.0	.013	1476.7	5.0
10	7.168	32.578	25.489	248.4	.025	1476.7	10.0
14	6.843	32.849	25.746	224.0	.034	1475.8	13.8

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
0	7.160	32.585	6.29					
3	7.160	32.762	5.95					
9	6.900	32.720	6.17					



SHIP CH CRUISE 77-01 STATION 54 POSITION 40 31.20 N 73 35.60 W
LOCAL TIME 1003 DATE 77/ 5/10 WIND = knots DIR = DEPTH= 16M

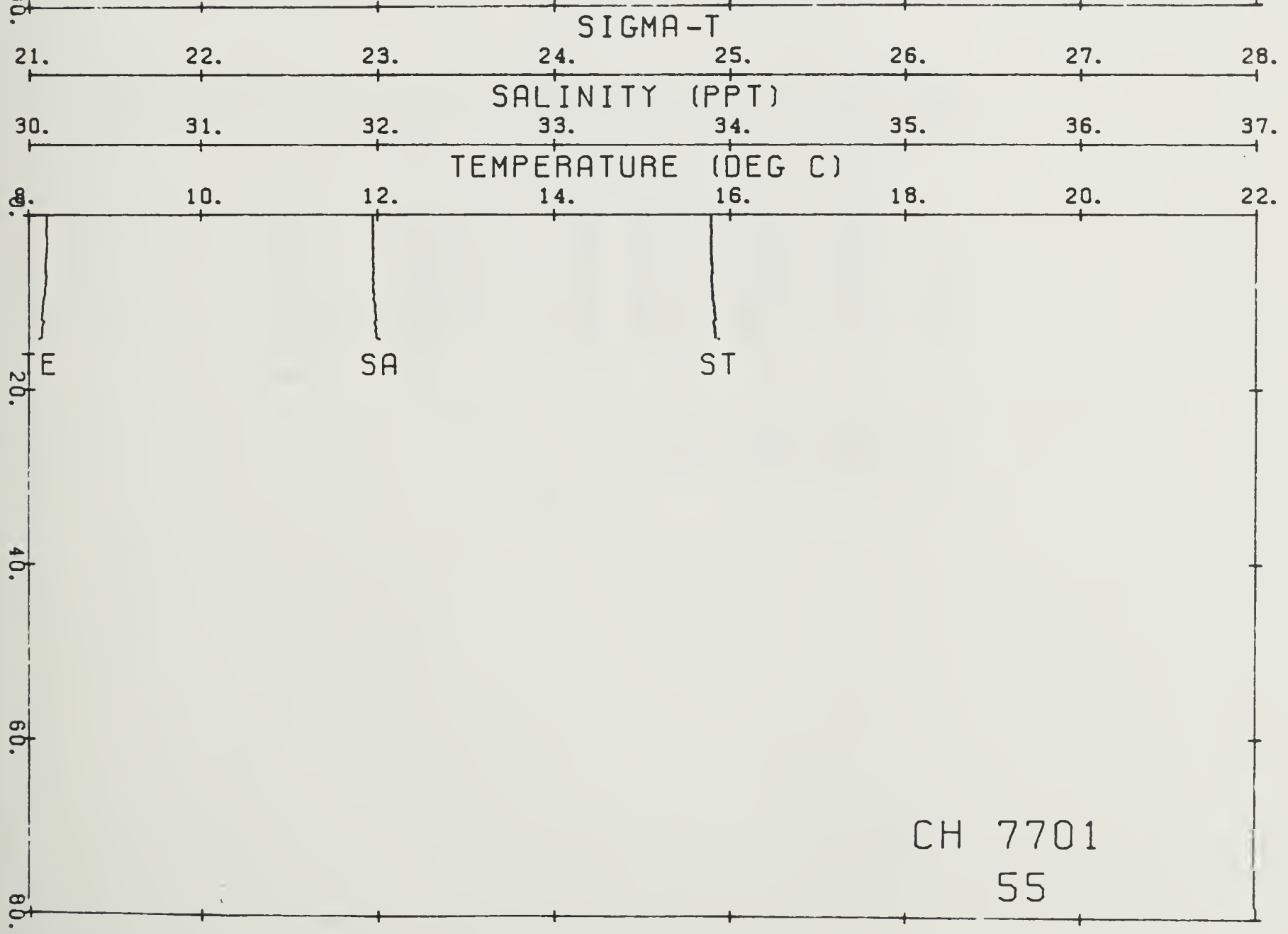
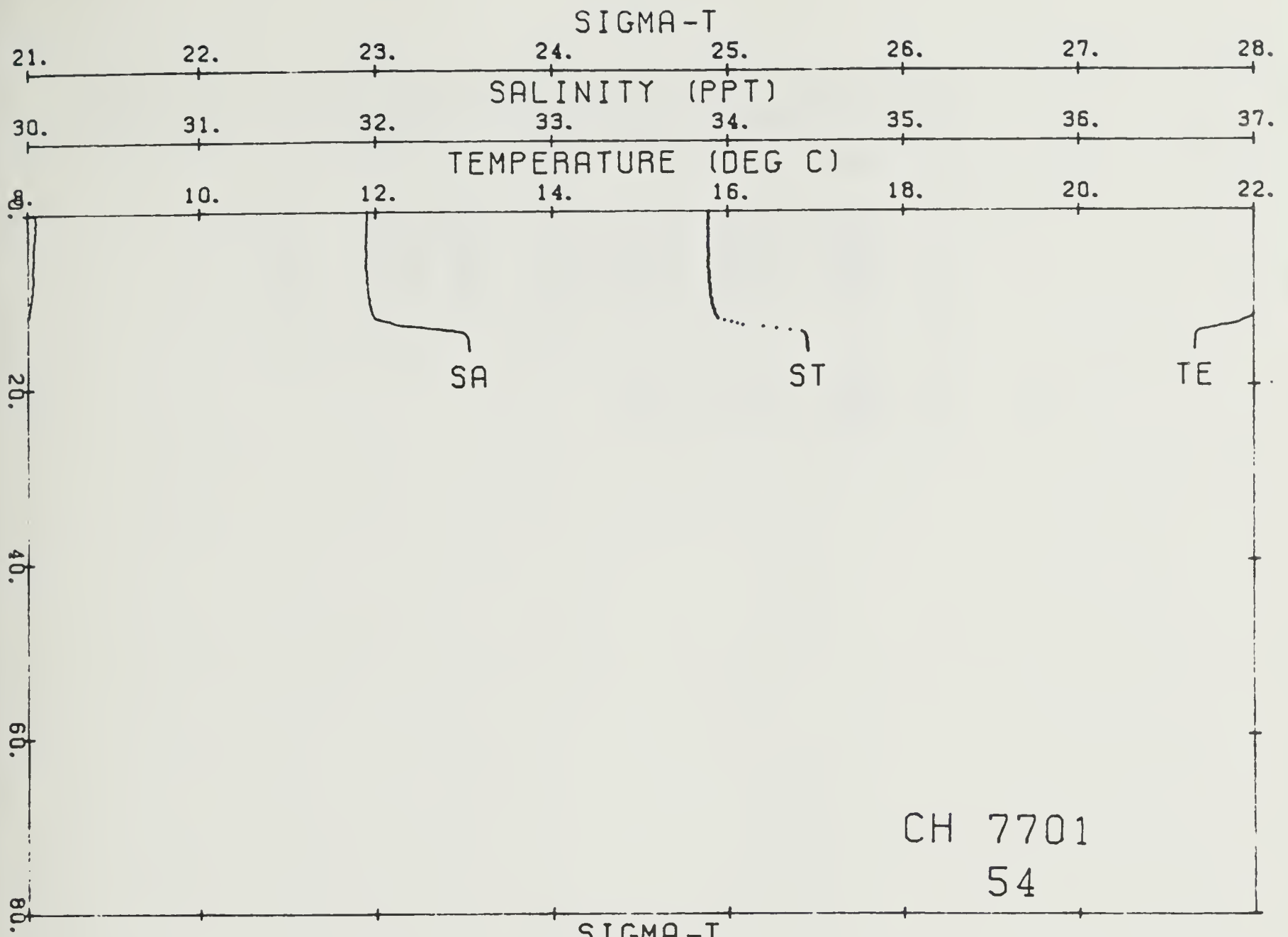
DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	8.096	31.950	24.866	307.6	0.000	1479.3	0.0
5	8.073	31.947	24.867	307.5	.015	1479.3	5.0
10	8.042	31.969	24.888	305.6	.031	1479.3	10.0
15	7.327	32.528	25.428	254.3	.045	1477.3	15.0
16	7.323	32.534	25.433	253.8	.047	1477.3	16.0

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
0	8.070	31.992						
10	7.980	32.532						
13	7.320	31.932						

SHIP CH CRUISE 77-01 STATION 55 POSITION 40 32.30 N 73 25.40 W
LOCAL TIME 1316 DATE 77/ 5/10 WIND = knots DIR = DEPTH= 17M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	8.215	31.973	24.867	307.5	0.000	1479.8	0.0
5	8.202	31.971	24.867	307.5	.015	1479.8	5.0
10	8.165	31.982	24.881	306.2	.031	1479.8	10.0
15	8.115	32.013	24.913	303.3	.044	1479.7	14.2

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
0	8.160	31.968	6.80					
7	8.180	31.969	6.80					
13	8.080	31.998	6.84					



SHIP CH CRUISE 77-01 STATION 56 POSITION 40 33.19 N 73 15.80 W
LOCAL TIME 1519 DATE 77/ 5/10 WIND = knots DIR = DEPTH= 21M

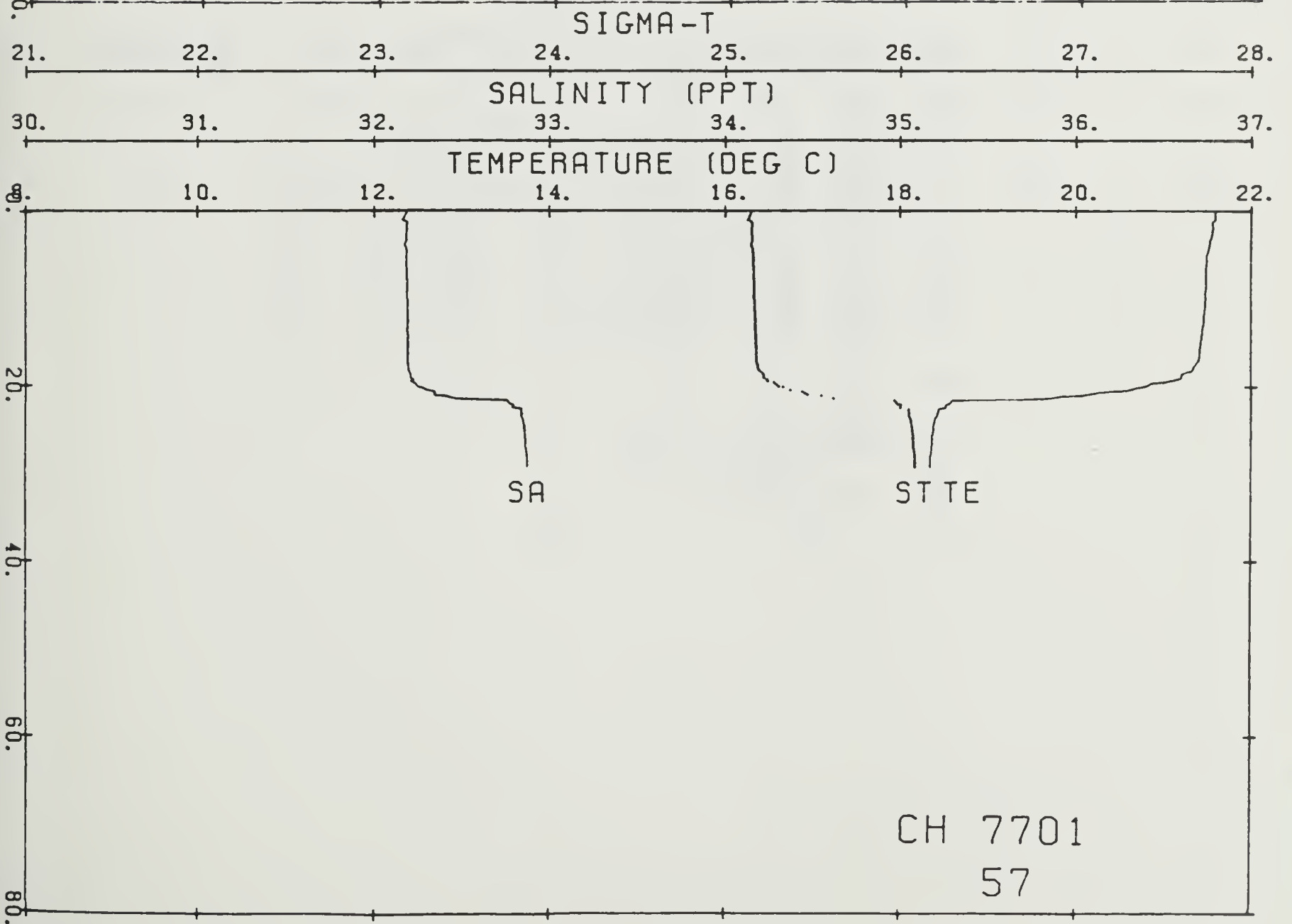
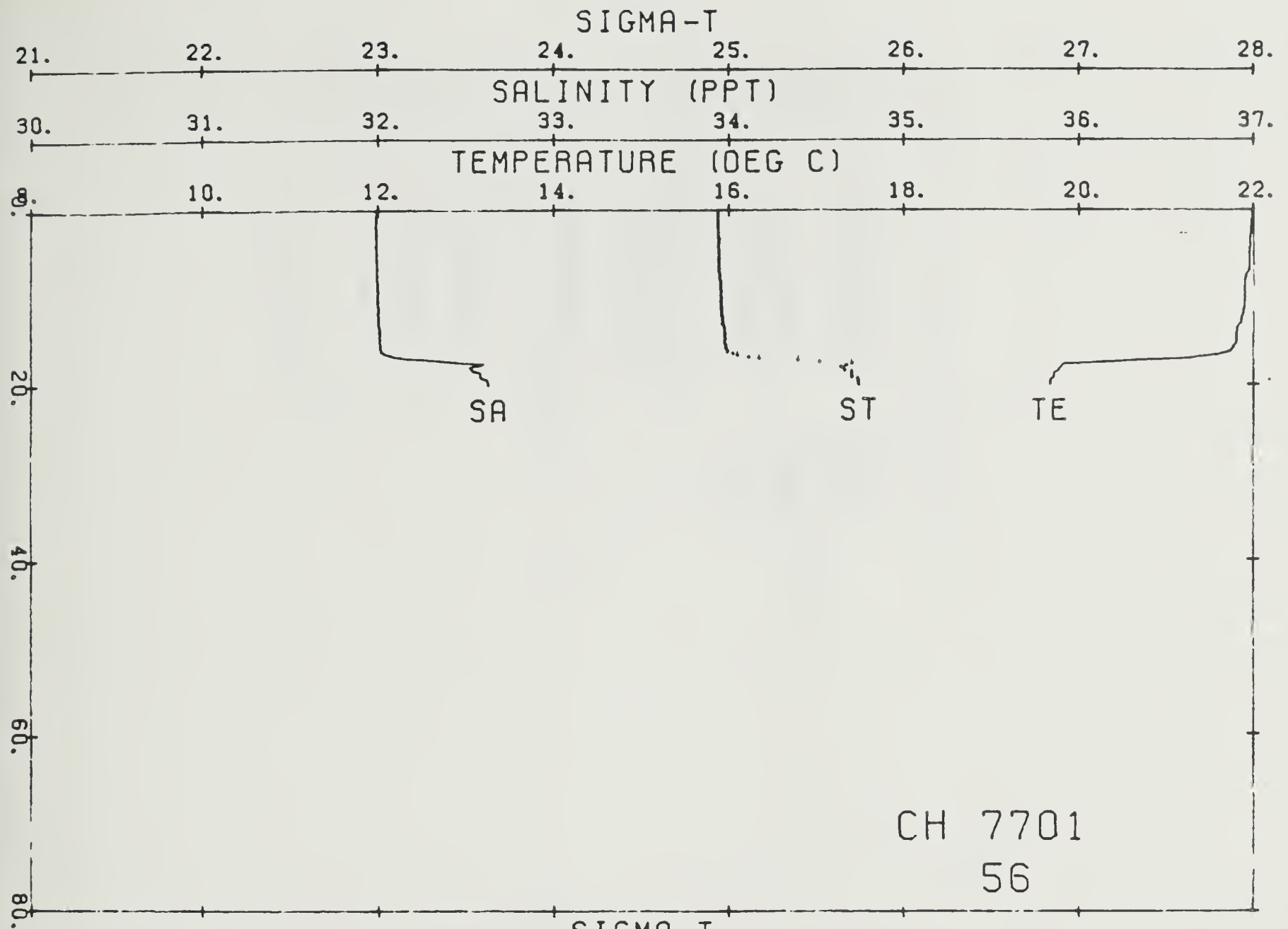
DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	7.982	31.994	24.917	302.7	0.000	1478.9	0.0
5	7.949	31.995	24.922	302.2	.015	1478.9	5.0
10	7.899	32.002	24.935	301.1	.030	1478.8	10.0
15	7.805	32.010	24.954	299.3	.045	1478.5	15.0
20	5.664	32.629	25.720	226.5	.058	1470.9	20.0

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
0	8.020	31.987	6.75					
13	7.830	31.993	6.65					
18	5.650	32.616	6.54					

SHIP CH CRUISE 77-01 STATION 57 POSITION 40 25.20 N 73 15.60 W
LOCAL TIME 1711 DATE 77/ 5/10 WIND = knots DIR = DEPTH= 31M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	7.589	32.185	25.122	283.2	0.000	1477.7	0.0
5	7.491	32.180	25.132	282.3	.014	1477.4	5.0
10	7.470	32.185	25.139	281.7	.028	1477.4	10.0
15	7.420	32.187	25.147	281.0	.042	1477.3	15.0
20	6.700	32.268	25.307	265.8	.056	1474.6	20.1
25	4.377	32.860	26.046	195.5	.068	1466.0	25.1
30	4.347	32.874	26.060	194.2	.076	1465.9	29.2

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
0	7.610	32.195	6.81					
13	7.430	32.196	6.68					
27	4.350	32.872	6.40					



SHIP CH CRUISE 77-01 STATION 58 POSITION 40 22.30 N 73 2.19 W
 LOCAL TIME 1922 DATE 77/ 5/10 WIND = knots DIR = DEPTH= 37M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	6.998	32.266	25.266	269.4	0.000	1475.5	0.0
5	6.915	32.274	25.283	267.9	.013	1475.2	5.0
10	6.890	32.280	25.291	267.2	.027	1475.2	10.0
15	6.854	32.286	25.301	266.3	.040	1475.2	15.0
20	6.760	32.341	25.357	261.1	.054	1474.9	20.1
25	3.464	33.120	26.343	167.3	.064	1462.5	25.1
30	3.321	33.162	26.389	162.9	.073	1462.0	30.2
35	3.271	33.172	26.402	161.8	.081	1461.9	35.2
36	3.273	33.174	26.403	161.6	.082	1461.9	35.8

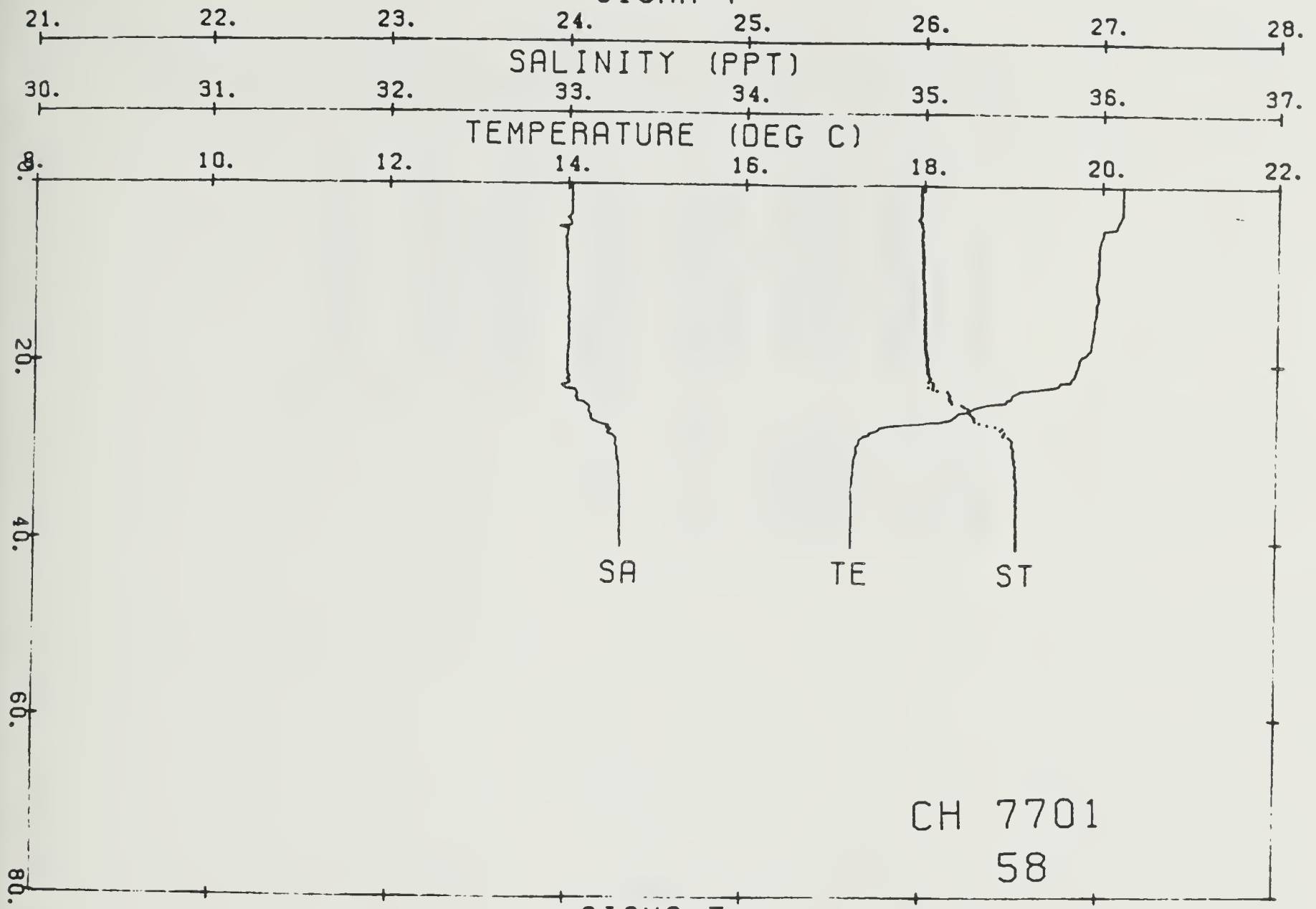
DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
0	7.020	32.273						
19	6.750	32.308						
34	3.280	33.155						

SHIP CH CRUISE 77-01 STATION 59 POSITION 40 29.70 N 72 37.30 W
 LOCAL TIME 2153 DATE 77/ 5/10 WIND = knots DIR = DEPTH= 42M

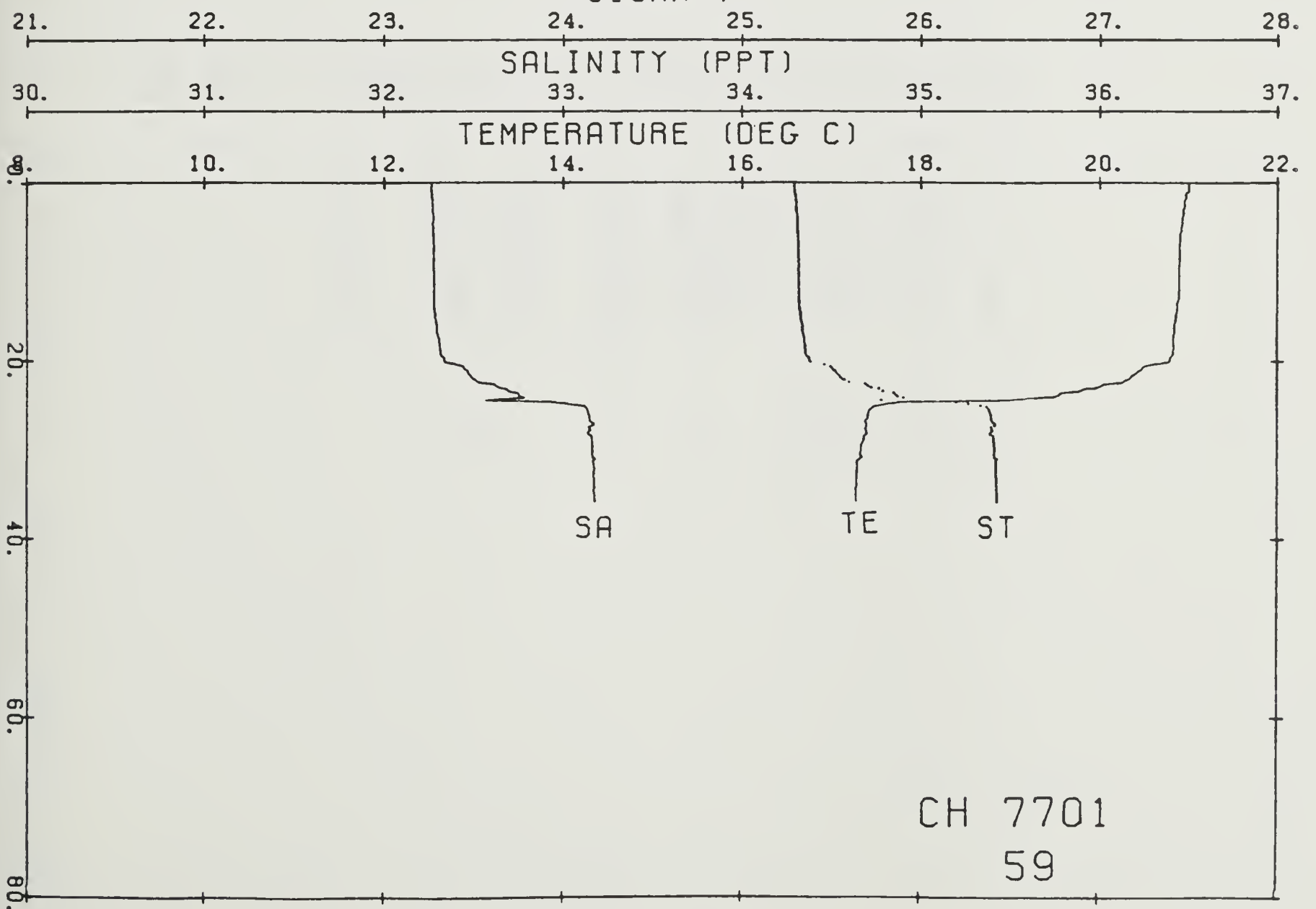
DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	6.233	33.018	25.958	203.7	0.000	1473.4	0.0
5	6.003	32.997	25.970	202.6	.010	1472.5	5.0
10	5.957	32.992	25.972	202.5	.020	1472.4	10.0
15	5.918	32.999	25.982	201.6	.030	1472.3	15.0
20	5.741	32.995	26.001	199.8	.041	1471.7	20.1
25	4.490	33.120	26.240	177.1	.051	1466.8	25.4
30	3.246	33.282	26.492	153.1	.059	1461.8	30.2
35	3.202	33.301	26.511	151.4	.066	1461.7	35.2
40	3.204	33.304	26.513	151.2	.074	1461.8	40.2
41	3.202	33.304	26.513	151.2	.075	1461.8	40.8

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
0	6.200	33.014	6.34					
13	5.900	32.997	6.32					
28		33.247						
38	3.200	33.295	6.41					

SIGMA-T



SIGMA-T



SHIP CH CRUISE 77-01 STATION 60 POSITION 40 38.50 N 72 31.60 W
 LOCAL TIME 5 DATE 77/ 5/11 WIND = knots DIR = DEPTH= 35M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	7.391	33.019	25.806	218.2	0.000	1478.0	0.0
5	7.349	33.046	25.832	215.7	.011	1477.9	5.0
10	7.267	33.044	25.842	214.8	.022	1477.7	10.0
15	7.025	33.045	25.875	211.7	.032	1476.8	15.0
20	6.043	33.091	26.039	196.2	.043	1473.1	20.1
25	5.729	33.121	26.101	190.3	.053	1471.9	25.4
30	5.673	33.128	26.114	189.2	.062	1471.8	30.2
33	5.658	33.134	26.120	188.7	.068	1471.8	33.4

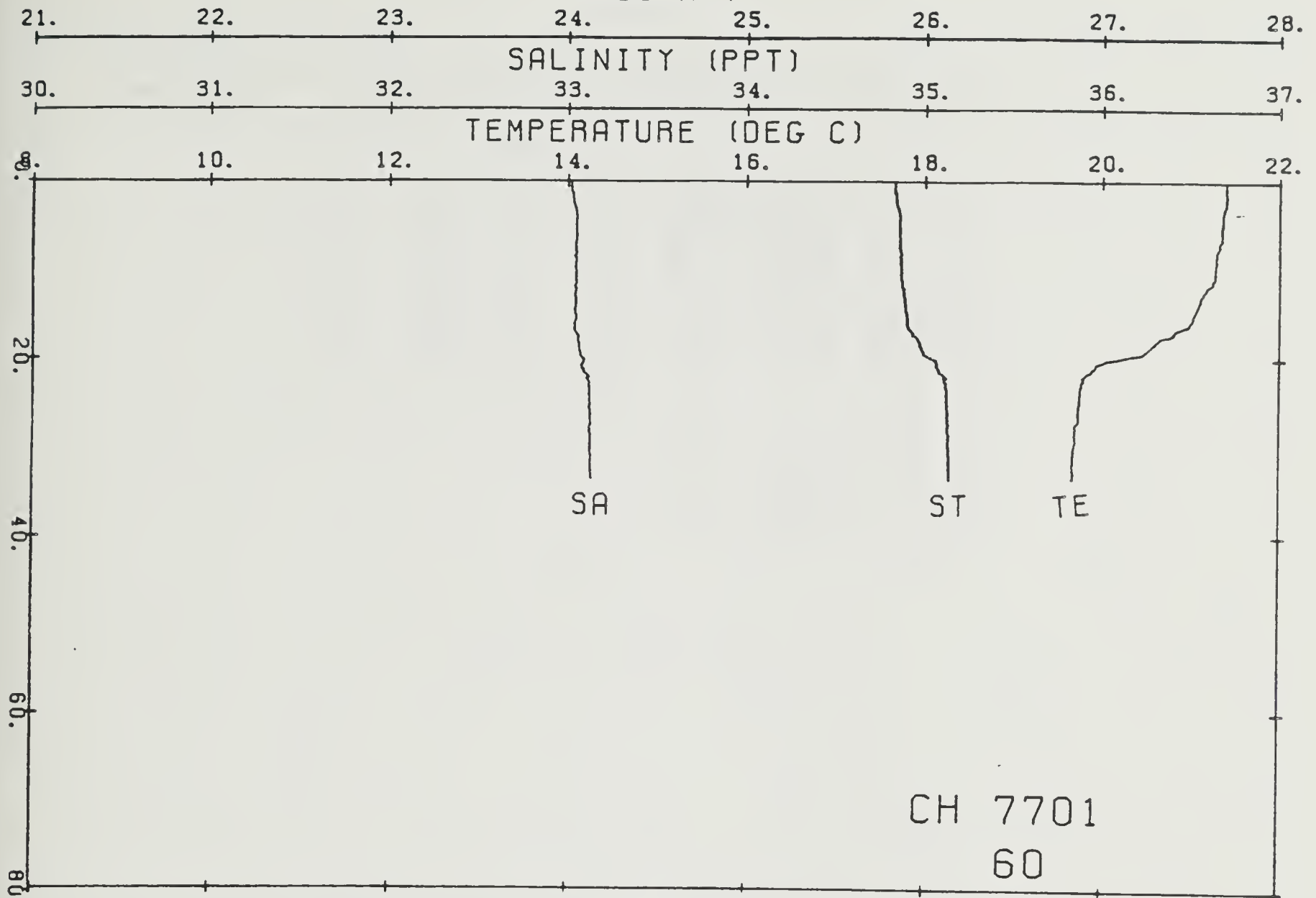
DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
0	7.370	33.031	6.37					
3		33.033						
9	7.270	33.050	6.29					
19		33.047						
30	5.580	33.122	5.94					

SHIP CH CRUISE 77-01 STATION 61 POSITION 40 45.80 N 72 28.10 W
 LOCAL TIME 216 DATE 77/ 5/11 WIND = knots DIR = DEPTH= 29M

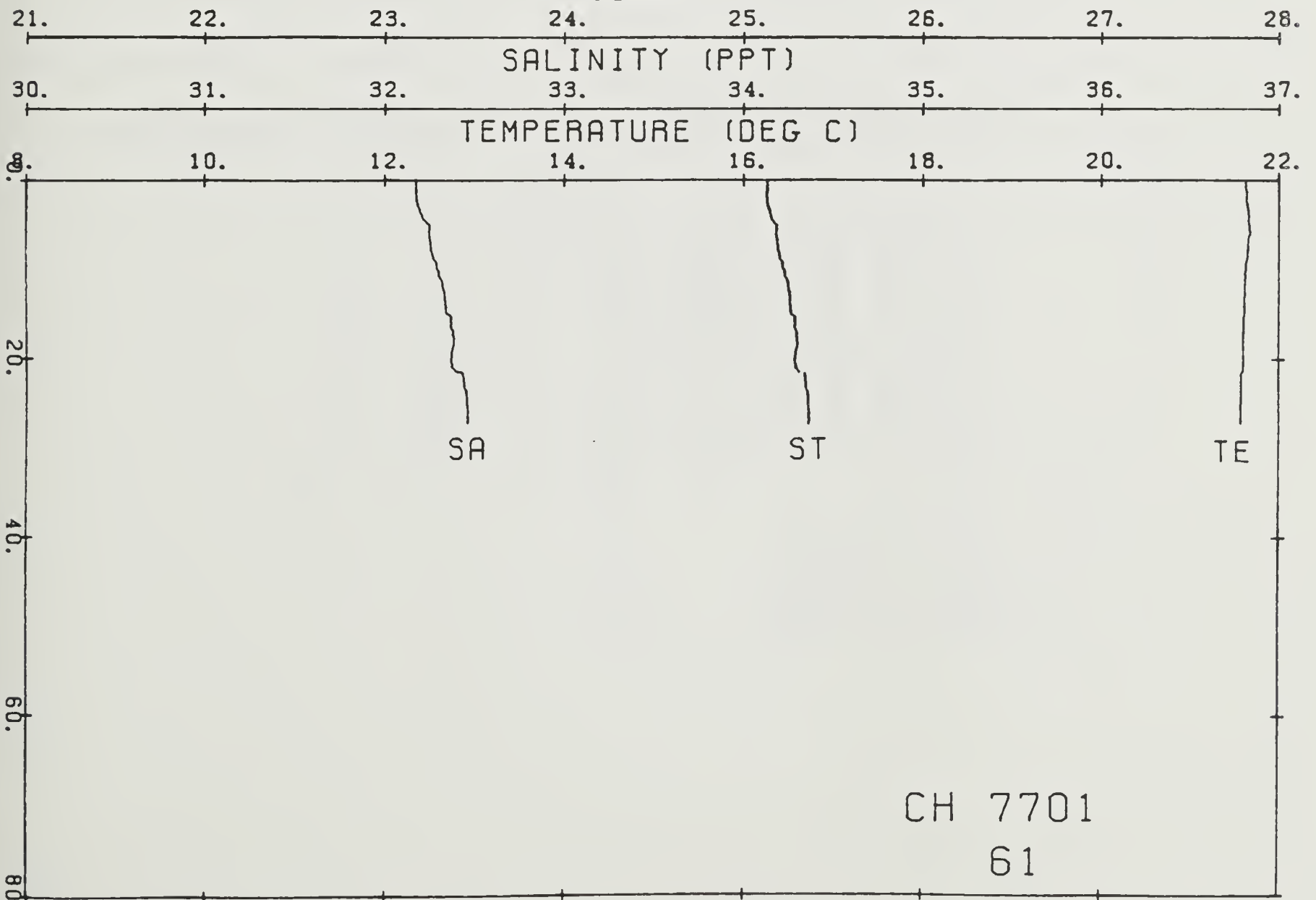
OTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	7.625	32.174	25.108	284.5	0.000	1477.8	0.0
5	7.671	32.248	25.160	279.6	.014	1478.1	5.0
10	7.625	32.289	25.199	276.0	.028	1478.1	10.0
15	7.610	32.343	25.243	271.8	.042	1478.2	15.0
20	7.603	32.366	25.262	270.1	.056	1478.3	20.1
25	7.571	32.457	25.338	263.0	.069	1478.4	25.1
27	7.572	32.457	25.338	263.0	.074	1478.4	27.2

OTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
0	7.630	32.154						
3								
9	7.640	32.257	6.36					
19								
25		32.443						

SIGMA-T



SIGMA-T



SHIP CH CRUISE 77-01 STATION 62 POSITION 40 41.70 N 72 20.40 W
 LOCAL TIME 401 DATE 77/ 5/11 WIND = knots DIR = DEPTH= 38M

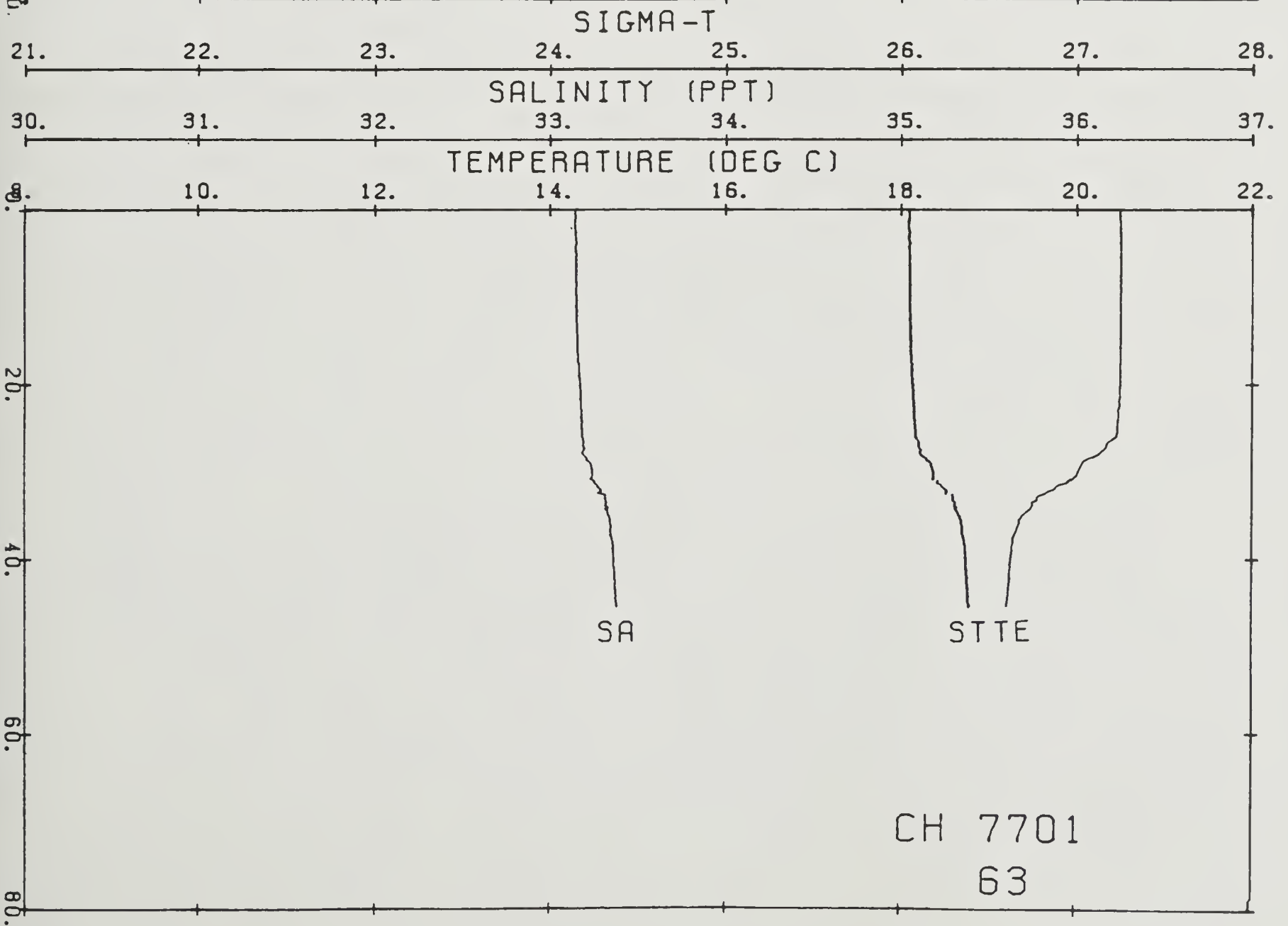
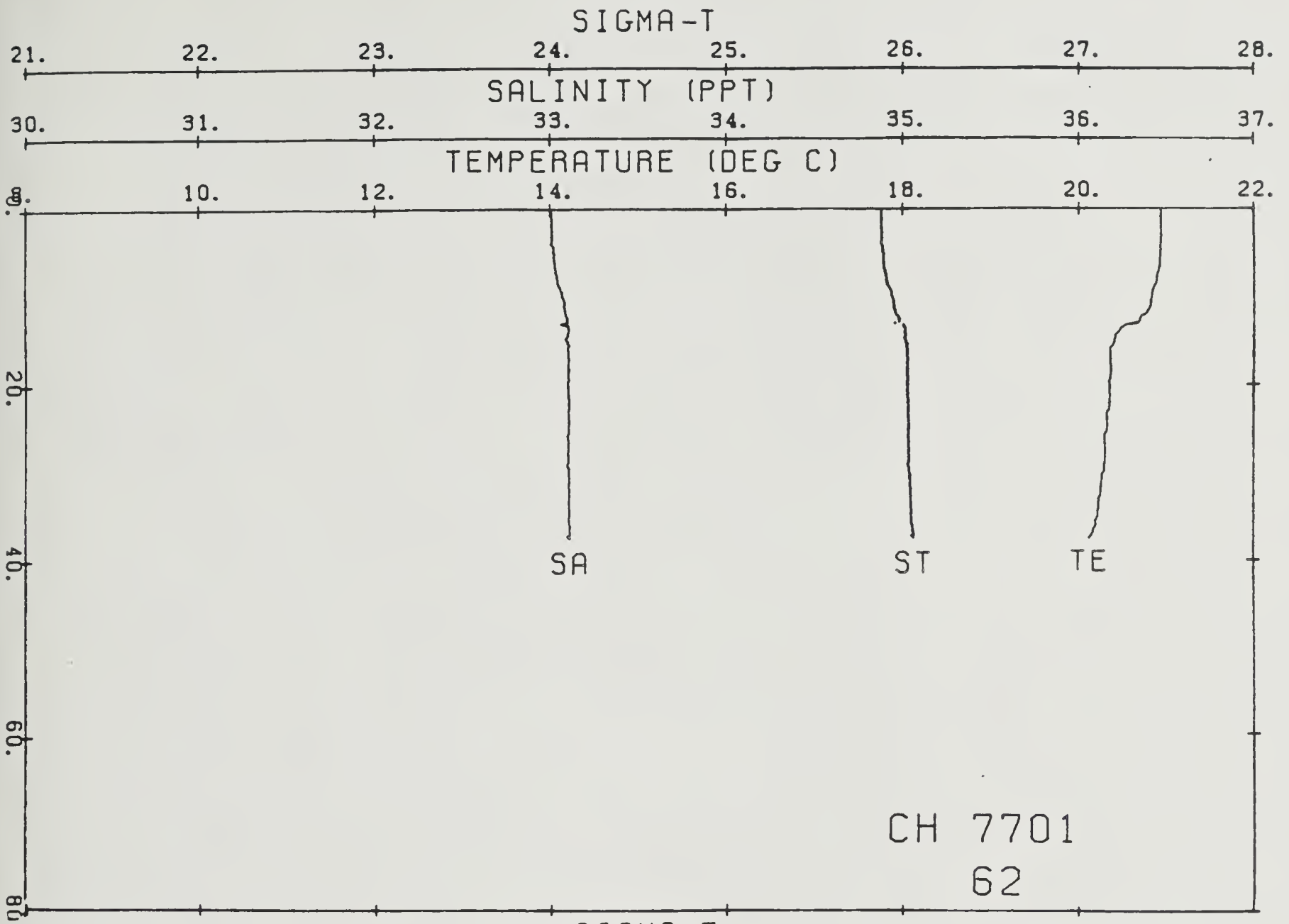
DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	6.942	33.010	25.859	213.0	0.000	1476.2	0.0
5	6.933	33.024	25.872	212.0	.011	1476.3	5.0
10	6.836	33.072	25.922	207.2	.021	1476.0	10.0
15	6.406	33.099	26.000	199.9	.031	1474.4	15.0
20	6.361	33.100	26.006	199.3	.041	1474.3	20.1
25	6.319	33.104	26.015	198.6	.052	1474.3	25.4
30	6.267	33.103	26.021	198.1	.062	1474.1	30.2
35	6.207	33.103	26.028	197.4	.071	1474.0	35.2
37	6.120	33.107	26.042	196.1	.076	1473.7	37.4

OTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
0	6.890	33.019	5.99					
9		33.063						
13	6.770	33.086	5.99					
27		33.093						
35	6.180	33.095	5.81					

SHIP CH CRUISE 77-01 STATION 63 POSITION 40 36.80 N 72 13.00 W
 LOCAL TIME 528 DATE 77/ 5/11 WIND = knots DIR = DEPTH= 46M

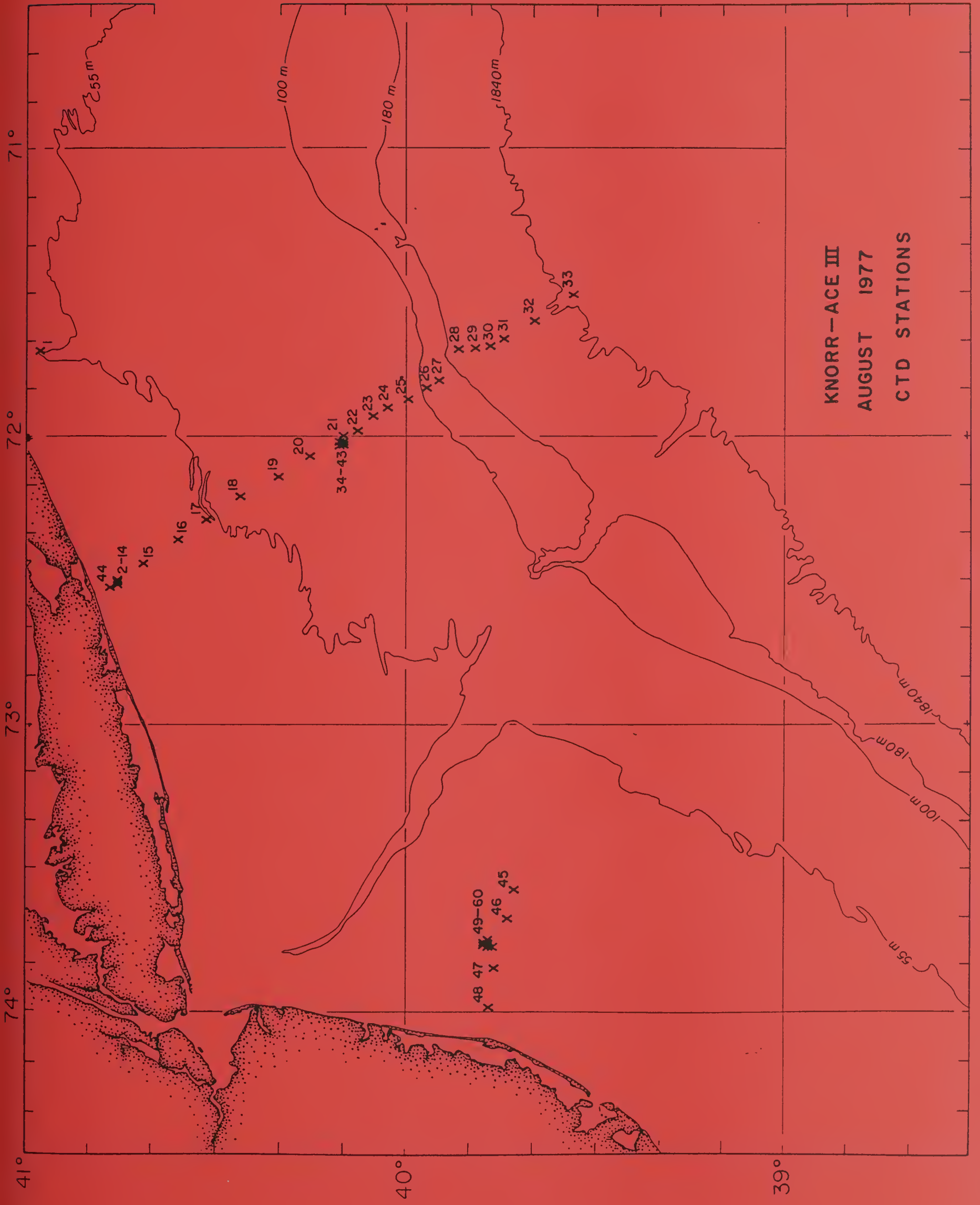
DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	6.495	33.141	26.021	197.7	0.000	1474.6	0.0
5	6.506	33.144	26.023	197.6	.010	1474.7	5.0
10	6.506	33.147	26.025	197.4	.020	1474.8	10.0
15	6.505	33.153	26.029	197.1	.030	1474.9	15.0
20	6.499	33.168	26.042	195.9	.040	1475.0	20.1
25	6.464	33.180	26.056	194.7	.050	1474.9	25.4
30	6.001	33.238	26.160	184.8	.059	1473.2	30.2
35	5.360	33.332	26.312	170.4	.068	1470.8	35.2
40	5.238	33.357	26.346	167.2	.076	1470.5	40.2
45	5.193	33.375	26.365	165.5	.085	1470.4	45.3
45	5.193	33.375	26.365	165.5	.085	1470.4	45.3

OTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
0	6.480	33.261						
24		33.171						
29	6.140	33.191						
36		33.161						
43	5.190	33.346						



SHIP CH CRUISE 77-01 STATION 9 POSITION 38 52.33 N 71 69.83 W
LOCAL TIME 0157 DATE 77/ 5/ 1 DEPTH=2853M

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
0	20.230	35.968	5.37					
99		35.587	3.20					
250		35.186	3.23					
495	6.140	35.078						
991		34.998						
1486		35.000	6.24					
1979		34.971						
2467		34.955	6.31					
2662	2.700	34.953						
2800	2.300	34.913	6.40					



KNORR-ACE III
AUGUST 1977
CTD STATIONS

KNORR ACE-III

Cruise dates: 4 August 1977 - 16 August 1977

The bottle data reported here were collected on separate hydrocasts, which usually immediately followed the CTD casts at the same station. The rosette sampler above the CTD was used to collect only enough thermometry and salinity data to assure that the CTD conductivity, temperature and pressure sensors were operating well. These sensors behaved very well on this cruise, so the few rosette bottle data used to establish this behavior are not presented here. Instead we present the more numerous hydrocasts bottle data, which contain a variety of chemical parameters, in a separate listing.

Station numbers: 1-60

CTD data (55): 1-36, 41-58, 60

No CTD data (5): 37-40, 59

Hydrocasts (bottle) data (53): 1-36, 38-48, 52-56, 58

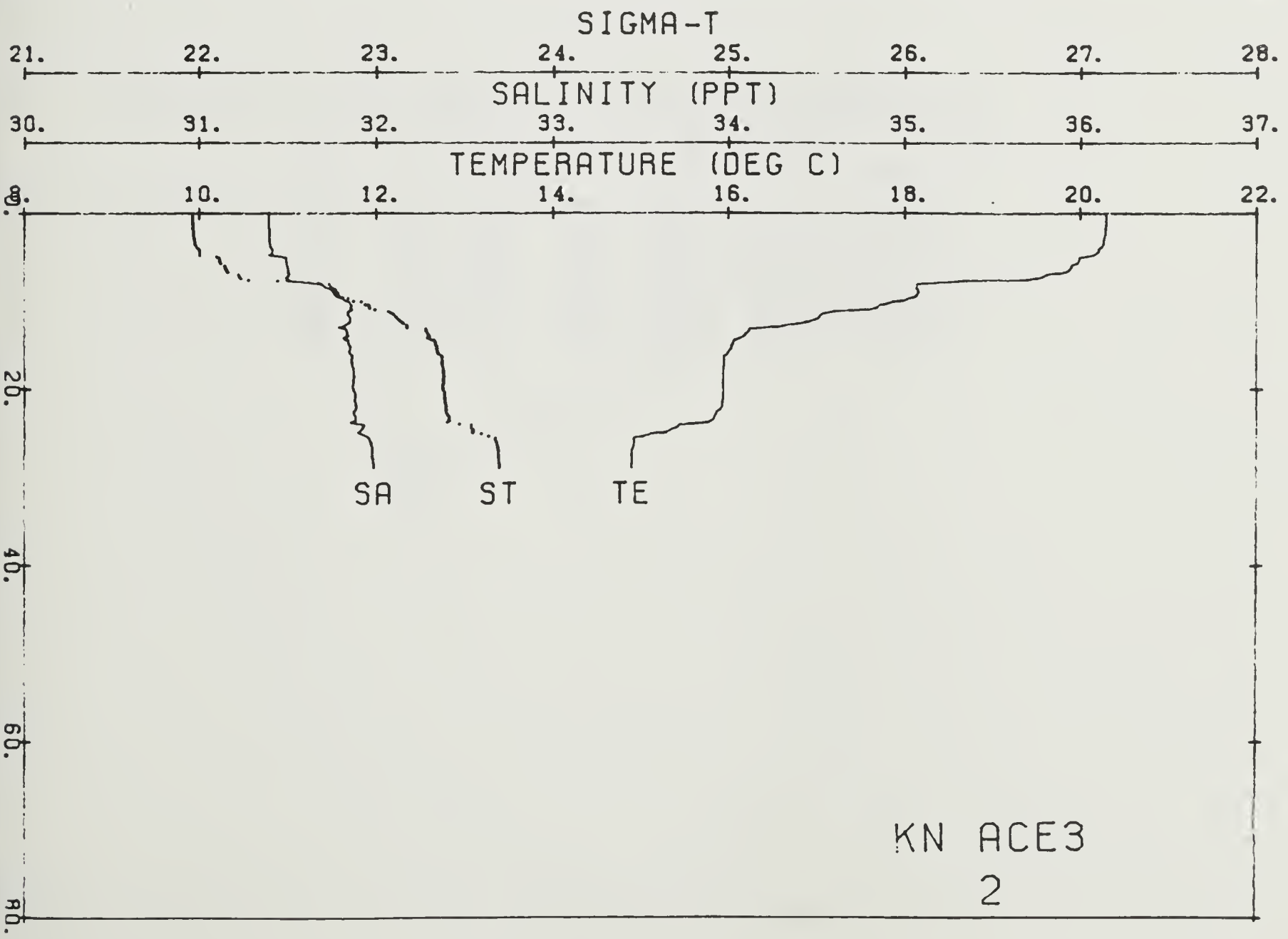
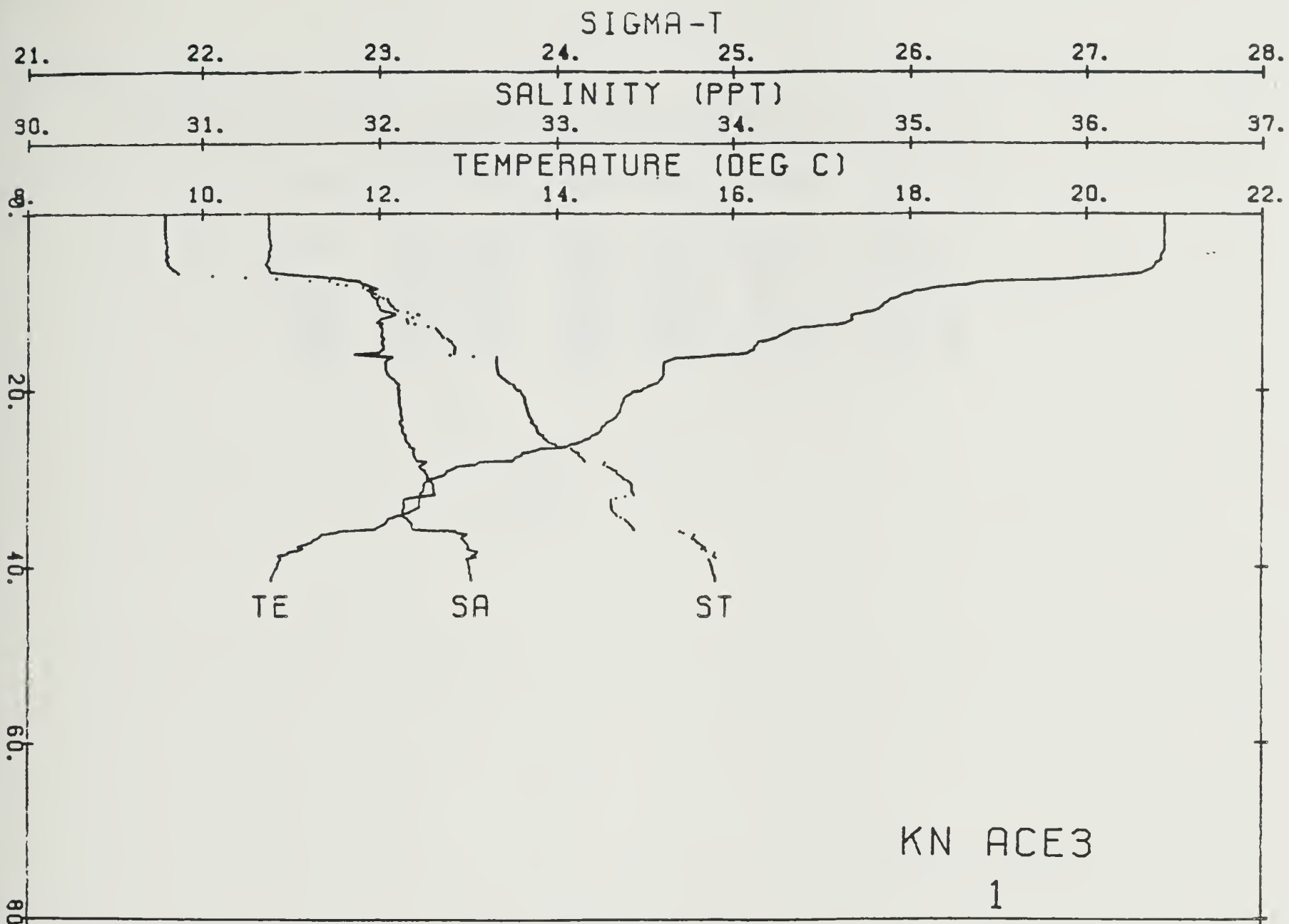
No hydrocasts (bottle) data (7): 37, 49-51, 57, 59-60

SHIP KN CRUISE ACE-3 STATION 1 POSITION 40 58.30 N 71 42.10 W
LOCAL TIME 2133 DATE 77/ 8/ 4 WIND = 9knots DIR = 22 DEPTH= 42M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	20.891	31.372	21.765	603.7	0.000	1520.3	0.0
5	20.854	31.370	21.773	603.0	.030	1520.3	5.0
10	17.739	31.990	23.032	482.7	.057	1512.3	10.0
15	16.245	32.026	23.407	447.0	.081	1507.9	15.0
20	14.954	32.120	23.763	413.2	.102	1504.0	20.0
25	14.431	32.148	23.895	400.7	.122	1502.5	25.0
30	12.543	32.300	24.391	353.4	.142	1496.4	30.2
35	12.052	32.198	24.405	352.2	.160	1494.7	35.2
40	10.837	32.525	24.878	307.2	.176	1490.9	40.2
41	10.774	32.538	24.899	305.2	.180	1490.7	41.6

SHIP KN CRUISE ACE-3 STATION 2 POSITION 40 46.00 N 72 30.40 W
LOCAL TIME 803 DATE 77/ 8/ 5 WIND = 8knots DIR = 290 DEPTH= 29M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	20.297	31.392	21.936	587.3	0.000	1518.7	0.0
5	20.006	31.478	22.077	573.9	.029	1518.1	5.0
10	17.970	31.825	22.850	500.1	.056	1512.8	10.0
15	16.043	31.844	23.313	456.0	.080	1507.1	15.0
20	15.936	31.869	23.356	452.1	.102	1506.8	20.0
25	15.273	31.892	23.519	436.6	.125	1504.9	25.0
30	14.885	31.984	23.673	422.0	.142	1503.8	29.0

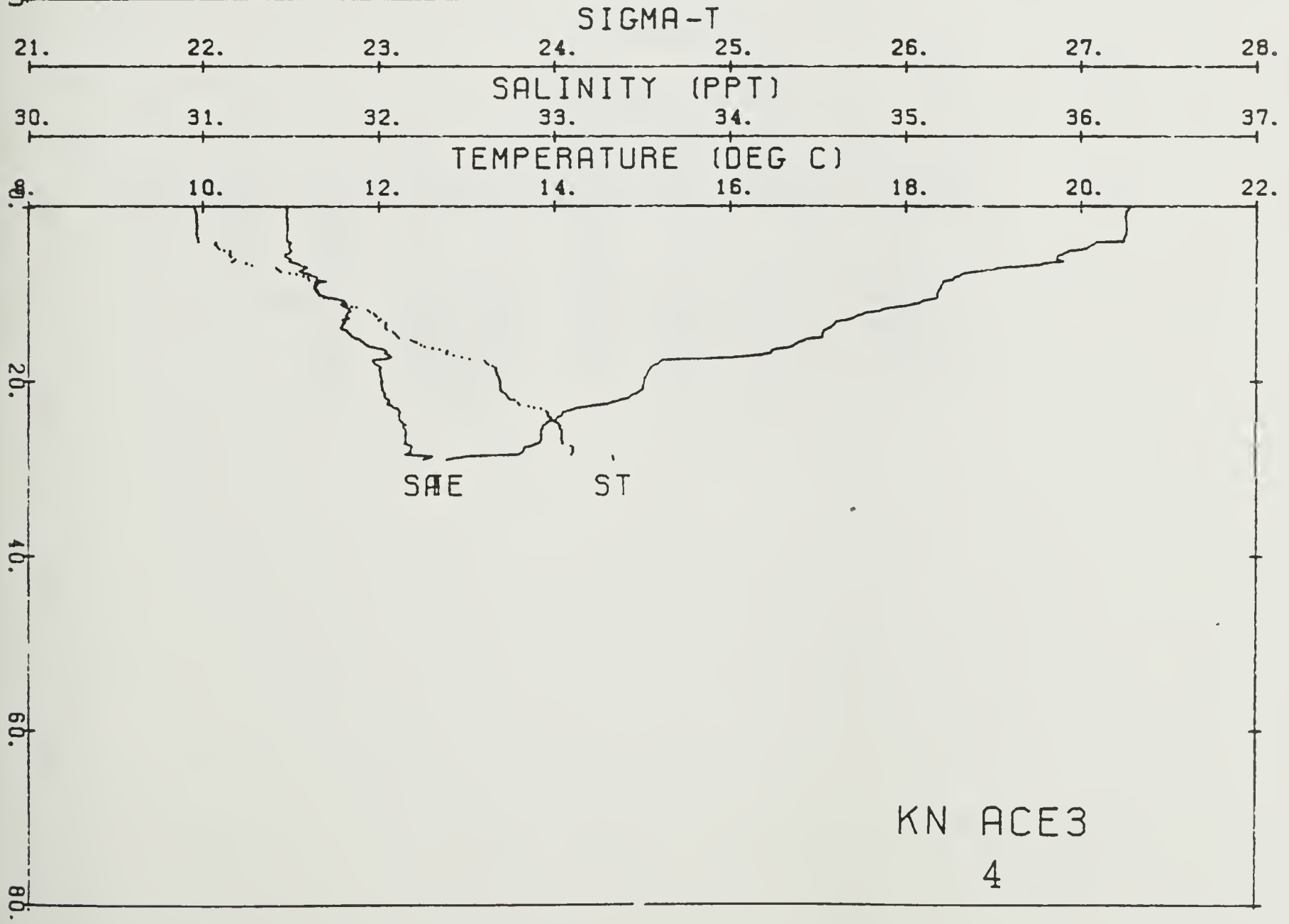
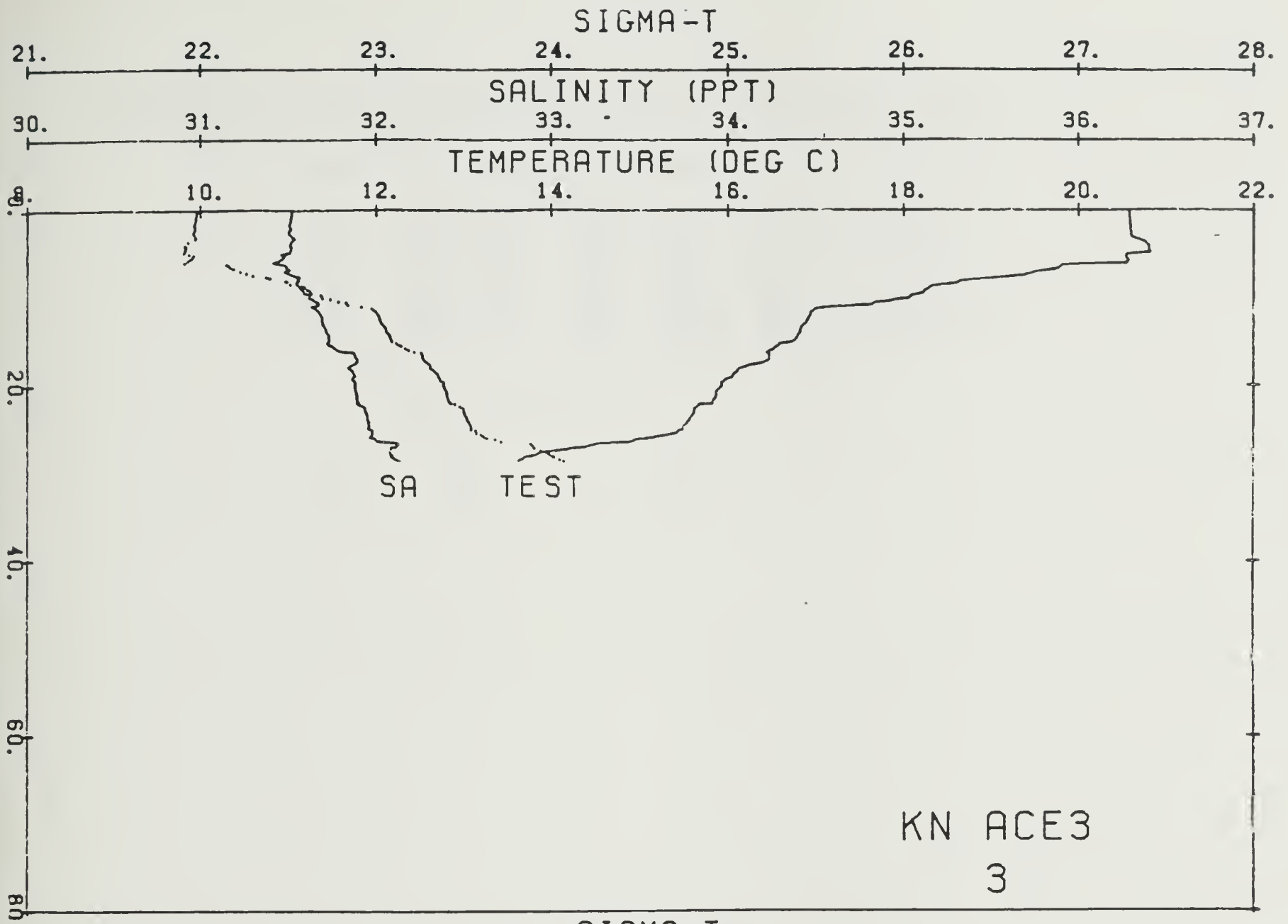


SHIP KN CRUISE ACE-3 STATION 3 POSITION 40 45.70 N 72 29.50 W
LOCAL TIME 1458 DATE 77/ 8/ 5 WIND = 13knots DIR = 200 DEPTH= 31M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	20.586	31.522	21.959	585.1	0.000	1519.7	0.0
3	20.614	31.522	21.952	585.8	.018	1519.8	3.0
4	20.814	31.507	21.888	592.0	.023	1520.3	4.0
15	16.727	31.729	23.070	479.3	.082	1509.0	15.0
20	15.932	31.880	23.365	451.2	.106	1506.8	20.0
25	15.483	31.956	23.523	436.2	.128	1505.6	25.0
29	13.628	32.135	24.050	385.9	.143	1499.9	28.6

SHIP KN CRUISE ACE-3 STATION 4 POSITION 40 45.10 N 72 30.40 W
LOCAL TIME 2052 DATE 77/ 8/ 5 WIND = 14knots DIR = 200 DEPTH= 29M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	20.553	31.471	21.929	587.9	0.000	1519.5	0.0
3	20.520	31.477	21.942	586.8	.018	1519.5	3.0
4	20.490	31.478	21.951	586.0	.023	1519.4	4.0
15	17.039	31.856	23.094	476.9	.082	1510.1	15.0
20	15.013	32.021	23.674	421.6	.104	1504.1	20.0
25	13.883	32.156	24.015	389.3	.125	1500.7	25.0
30	12.771	32.256	24.313	360.9	.140	1497.1	29.0

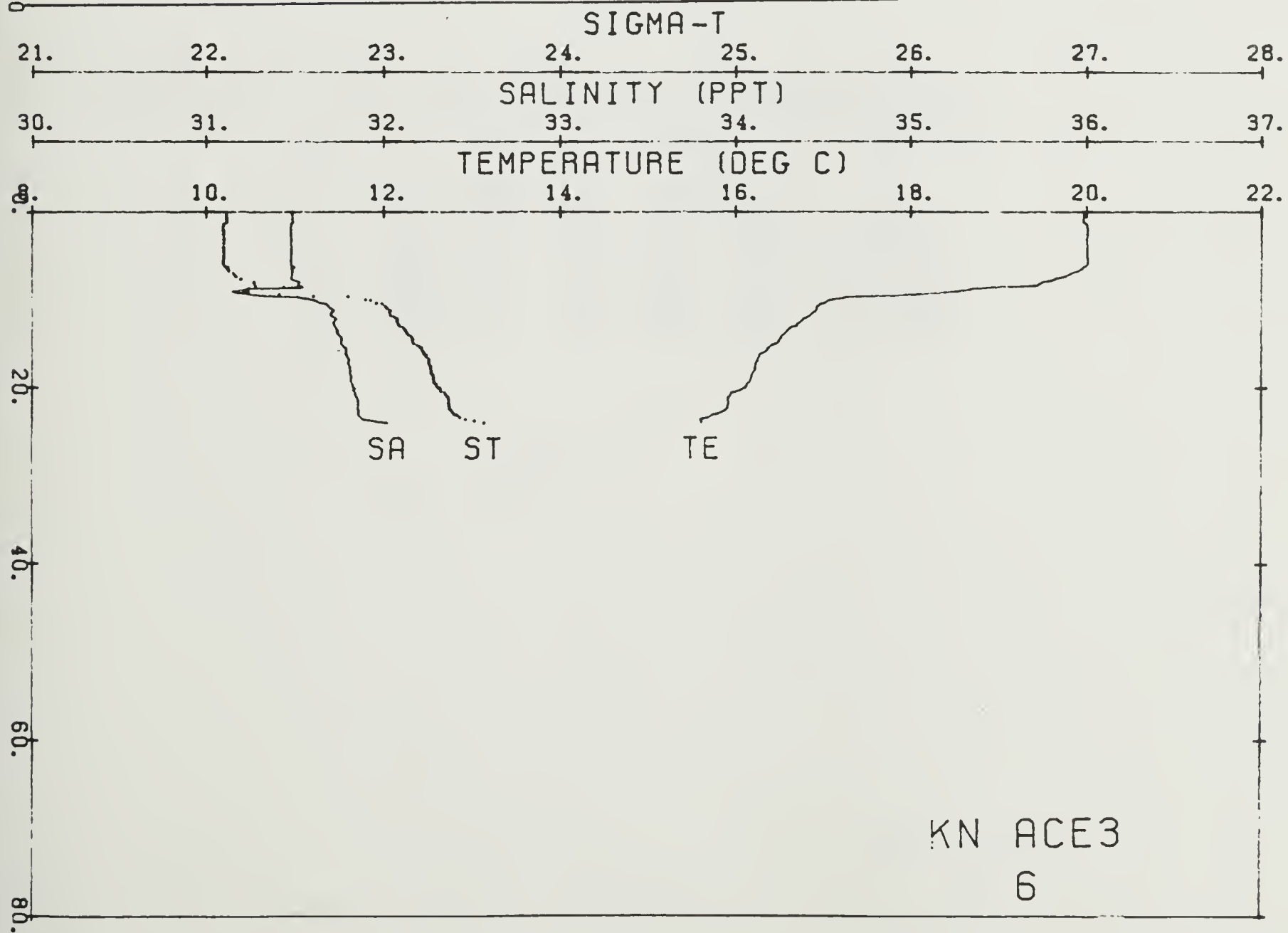
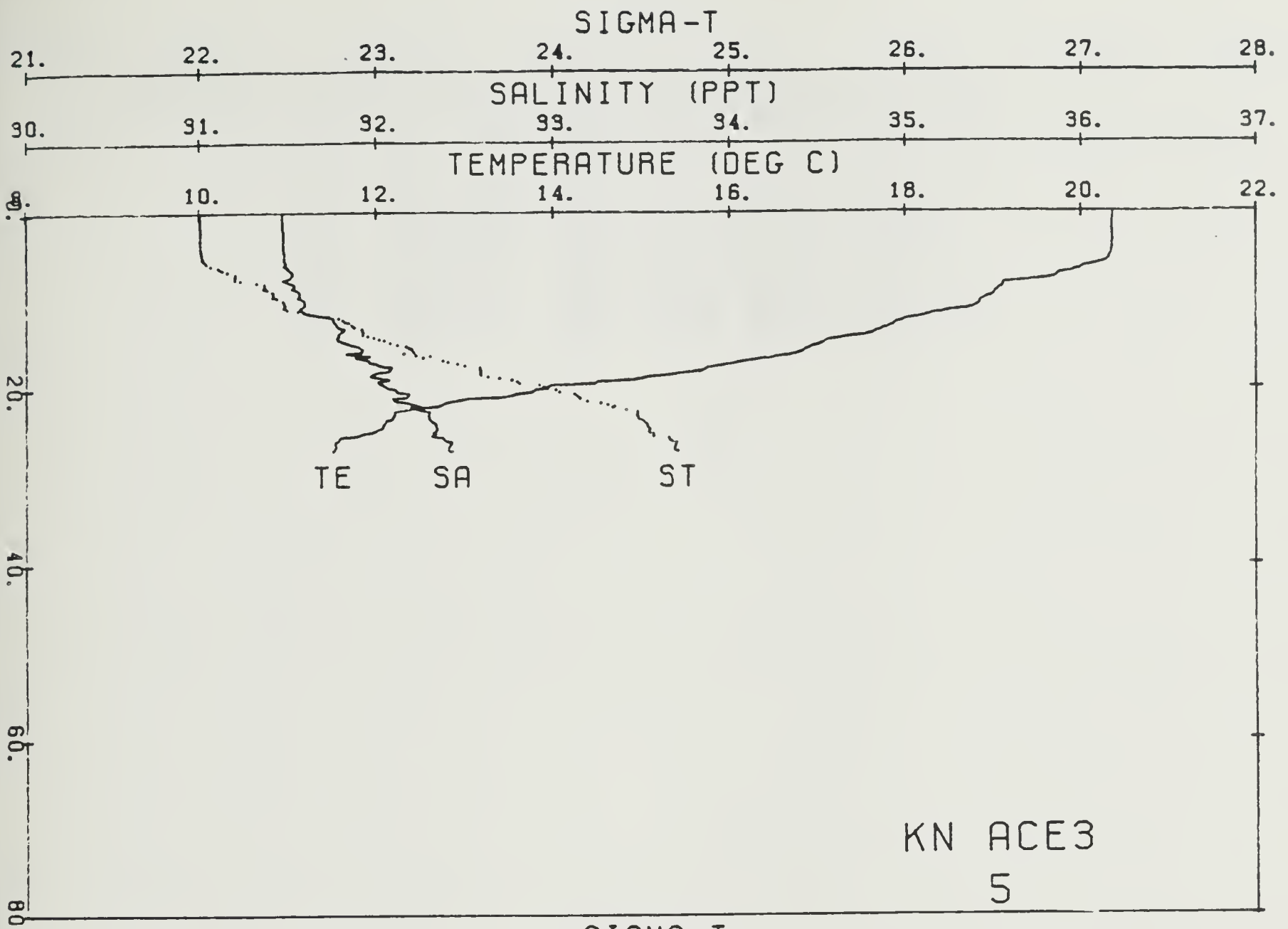


SHIP KN CRUISE ACE-3 STATION 5 POSITION 40 44.30 N 72 28.40 W
LOCAL TIME 45 DATE 77/- 8/ 6 WIND = 10knots DIR = 25 DEPTH= 29M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	20.363	31.470	21.979	583.2	0.000	1519.0	0.0
3	20.362	31.474	21.982	583.0	.017	1519.1	3.0
4	20.361	31.474	21.982	583.0	.023	1519.1	4.0
15	17.019	31.853	23.097	476.6	.082	1510.1	15.0
20	13.893	32.068	23.945	395.8	.103	1500.5	20.0
25	11.946	32.320	24.519	341.1	.122	1494.3	25.0
27	11.503	32.428	24.684	325.5	.129	1492.9	27.1

SHIP KN CRUISE ACE-3 STATION 6 POSITION 40 46.70 N 72 29.20 W
LOCAL TIME 451 DATE 77/ 8/ 6 WIND = 10knots DIR = 260 DEPTH= 26M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	19.965	31.483	22.092	572.4	0.000	1517.9	0.0
3	19.997	31.477	22.079	573.7	.017	1518.1	3.0
4	20.004	31.477	22.077	573.9	.023	1518.1	4.0
15	16.472	31.757	23.149	471.7	.080	1508.3	15.0
20	16.111	31.831	23.287	458.6	.104	1507.3	20.0
25	15.608	32.023	23.547	433.9	.122	1506.1	24.0

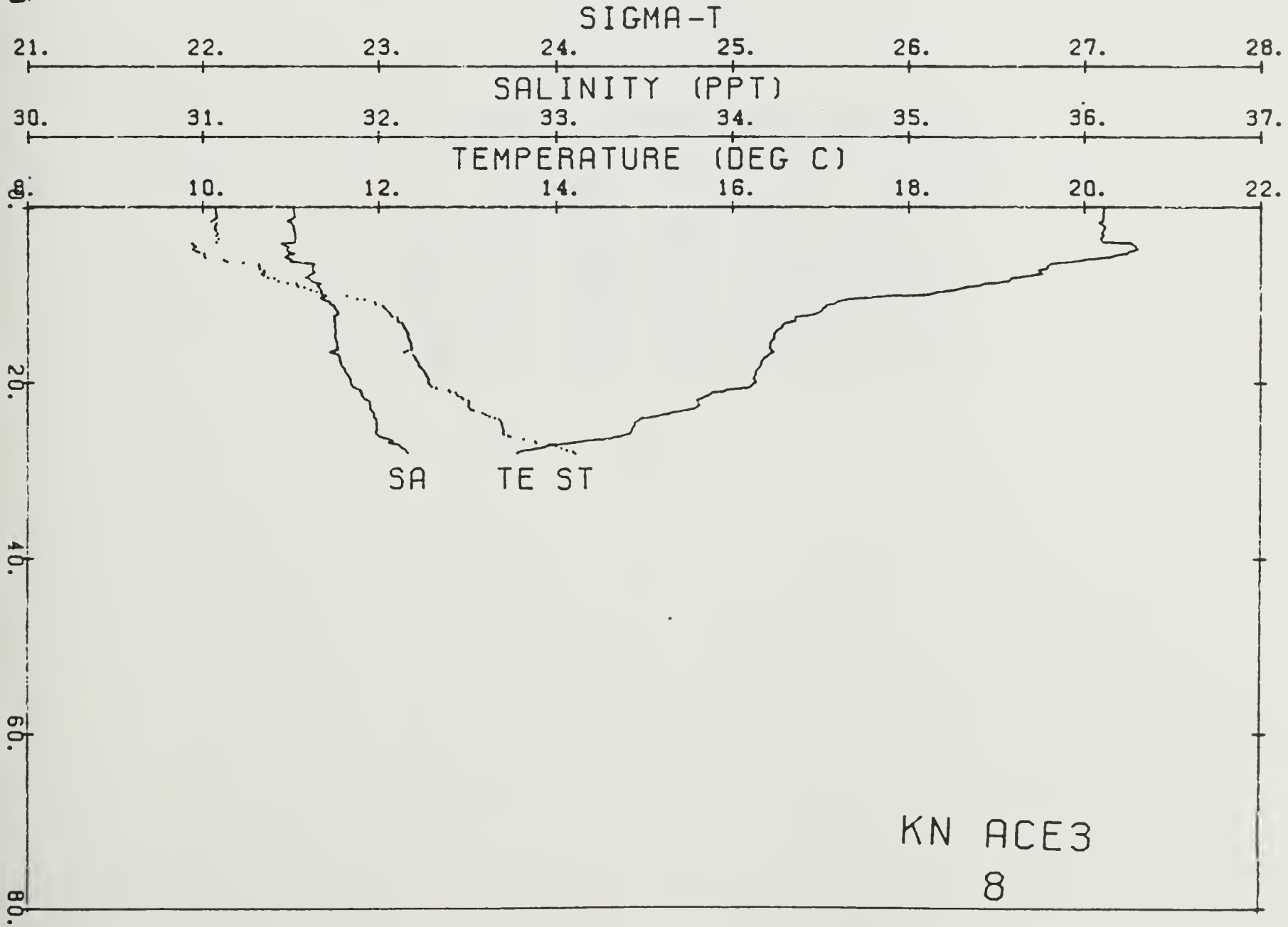
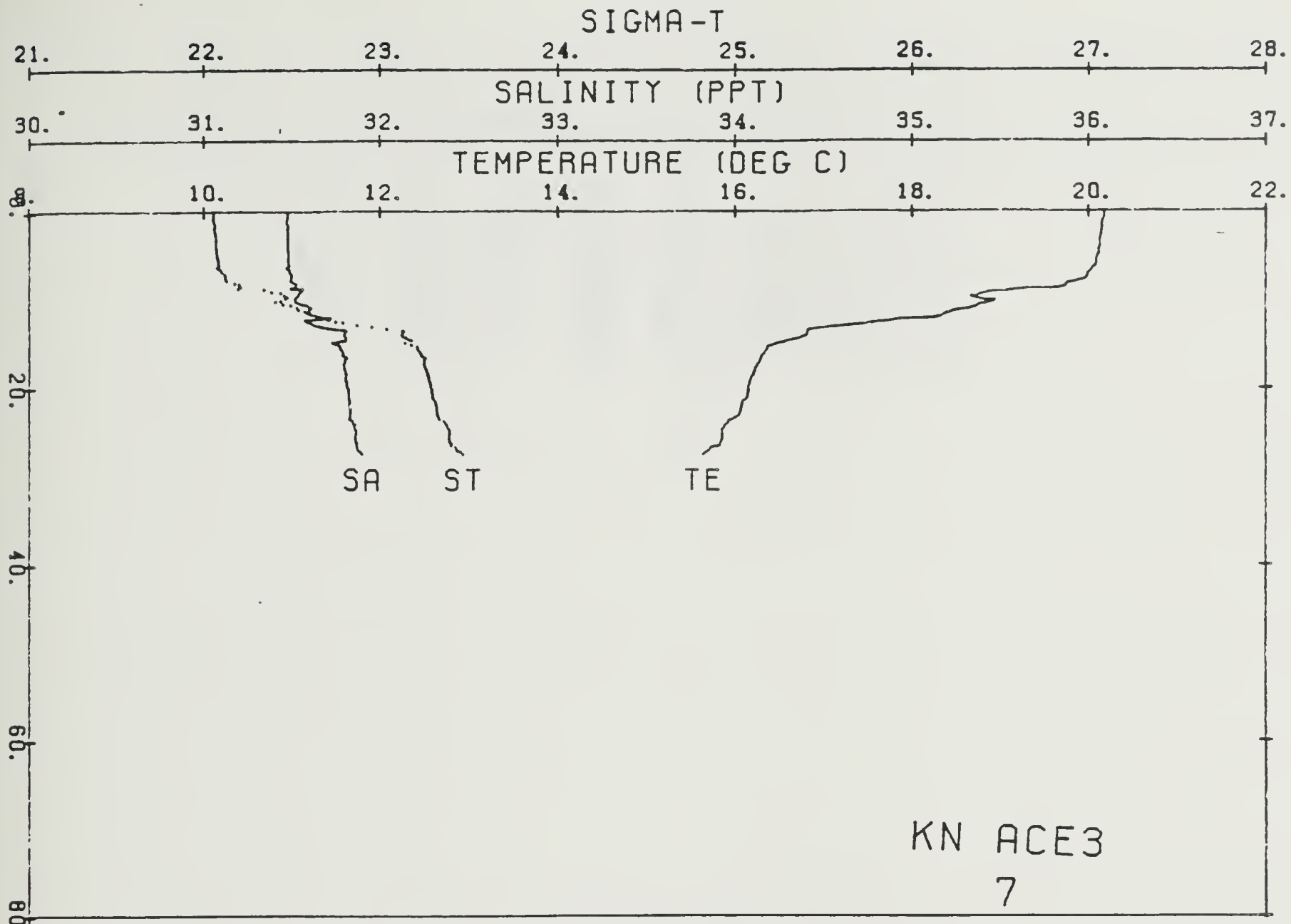


SHIP KN CRUISE ACE-3 STATION 7 POSITION 40 46.20 N 72 28.90 W
LOCAL TIME 844 DATE 77/ 8/ 6 WIND = 10knots DIR = 230 DEPTH= 28M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	20.180	31.475	22.030	578.3	0.000	1518.5	0.0
3	20.130	31.478	22.045	576.9	.017	1518.4	3.0
4	20.127	31.477	22.045	577.0	.023	1518.4	4.0
15	16.432	31.753	23.155	471.1	.081	1508.2	15.0
20	16.146	31.819	23.270	460.2	.104	1507.4	20.0
25	15.845	31.861	23.370	450.8	.127	1506.6	25.0
27	15.639	31.898	23.444	443.8	.138	1506.1	27.4

SHIP KN CRUISE ACE-3 STATION 8 POSITION 40 46.40 N 72 28.70 W
LOCAL TIME 1353 DATE 77/ 8/ 6 WIND = knots DIR = DEPTH= 28M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	20.227	31.517	22.050	576.4	0.000	1518.7	0.0
3	20.200	31.526	22.063	575.2	.017	1518.7	3.0
4	20.215	31.521	22.056	575.9	.023	1518.7	4.0
15	16.468	31.759	23.151	471.5	.081	1508.3	15.0
20	16.263	31.846	23.265	460.8	.104	1507.8	20.0
25	14.875	31.992	23.682	421.0	.126	1503.7	25.0
28	13.560	32.169	24.090	382.1	.138	1499.7	28.0

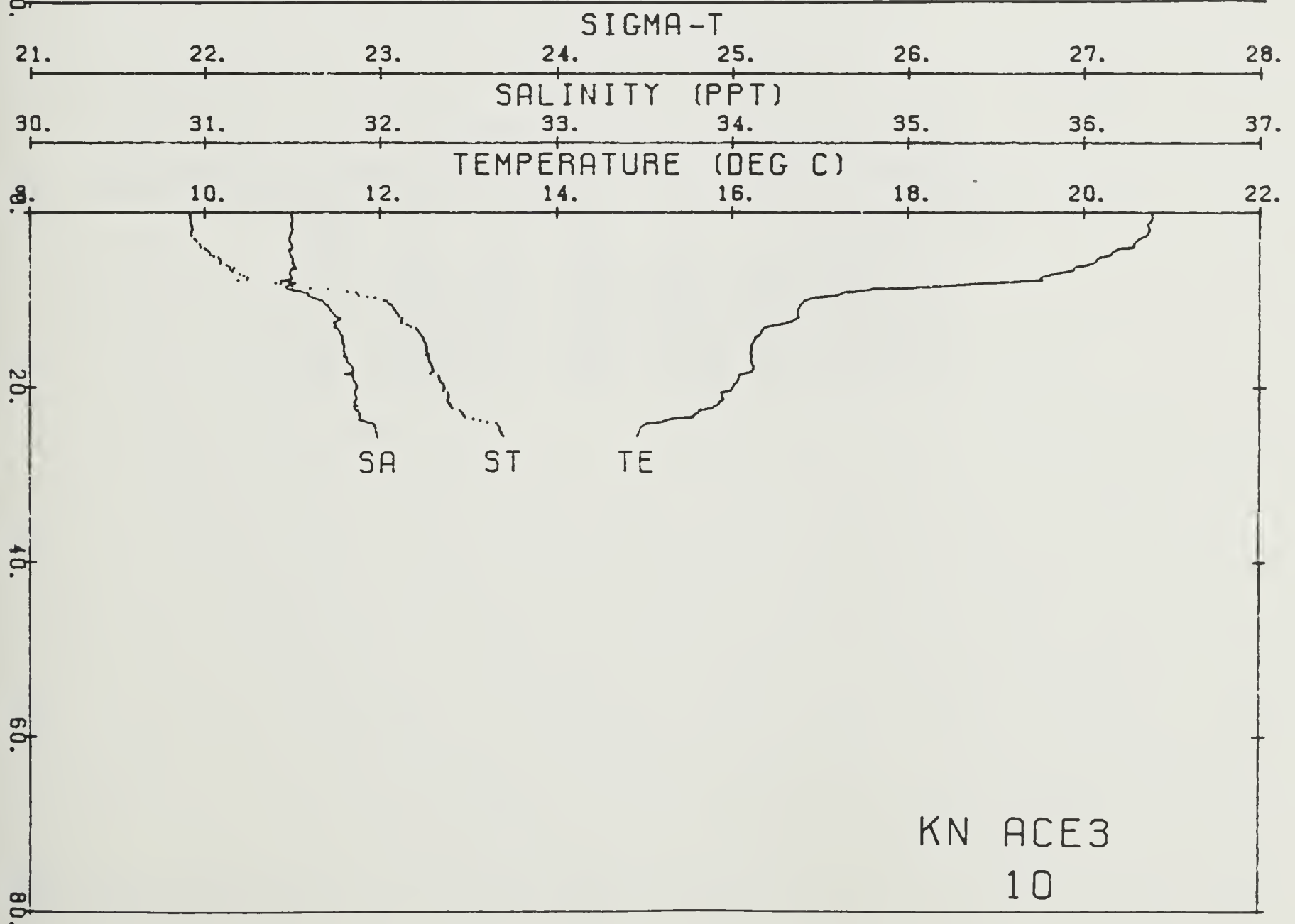
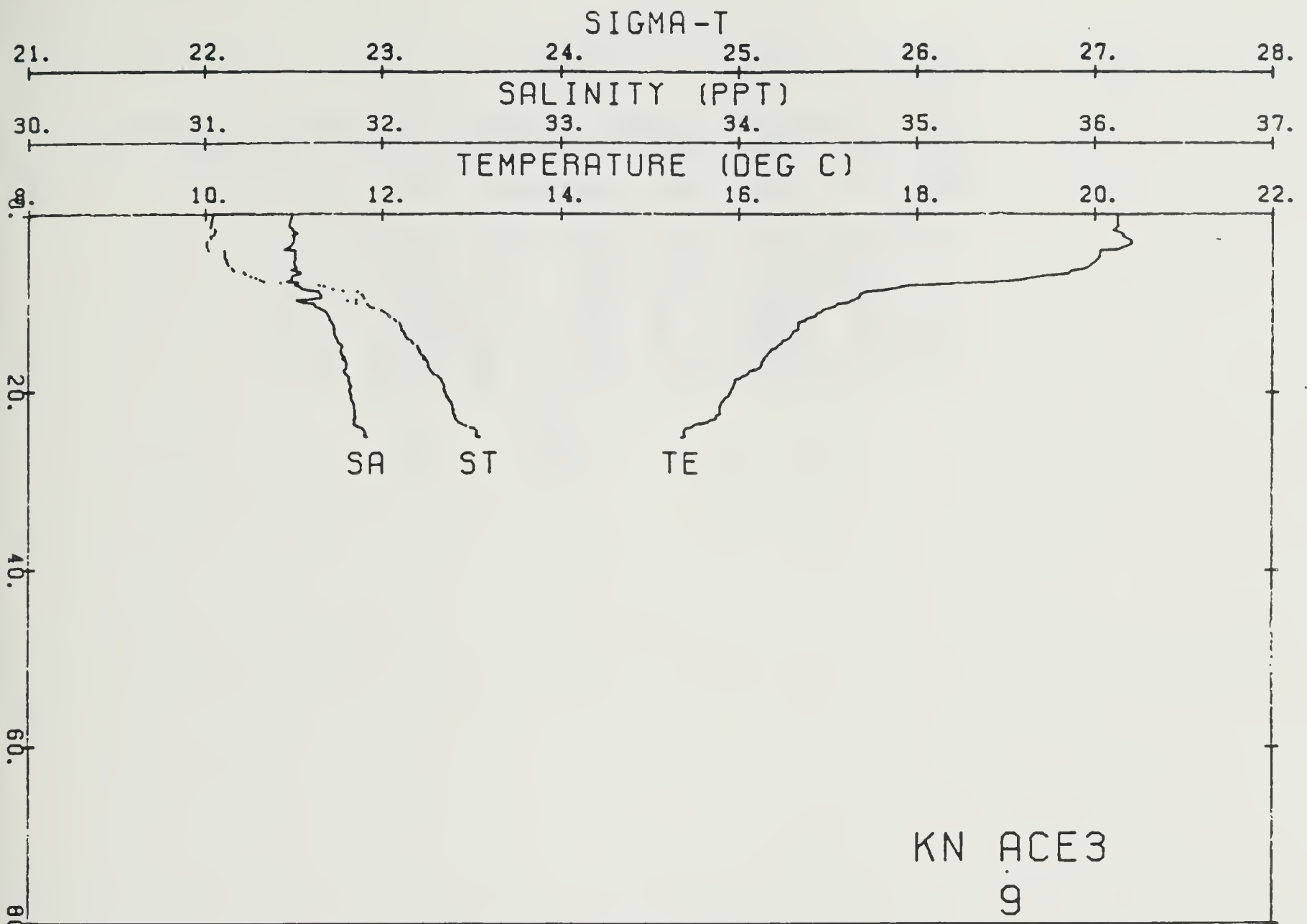


SHIP KN CRUISE ACE-3 STATION 9 POSITION 40 46.20 N 72 29.80 W
LOCAL TIME 1623 DATE 77/ 8/ 6 WIND = 10knots DIR = 240 DEPTH= 26M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	20.265	31.493	22.021	579.1	0.000	1518.8	0.0
3	20.427	31.502	21.986	582.6	.017	1519.3	3.0
4	20.243	31.448	21.993	581.9	.023	1518.7	4.0
15	16.420	31.774	23.174	469.3	.081	1508.1	15.0
20	15.906	31.820	23.325	455.0	.104	1506.7	20.0
25	15.393	31.901	23.500	438.4	.127	1505.3	25.0
25	15.353	31.915	23.520	436.5	.127	1505.1	25.1

SHIP KN CRUISE ACE-3 STATION 10 POSITION 40 46.00 N 72 29.90 W
LOCAL TIME 2030 DATE 77/ 8/ 6 WIND = 14knots DIR = 240 DEPTH= 27M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	20.779	31.492	21.886	592.1	0.000	1520.2	0.0
3	20.635	31.480	21.915	589.4	.018	1519.8	3.0
4	20.566	31.498	21.946	586.4	.024	1519.7	4.0
15	16.226	31.795	23.234	463.6	.081	1507.6	15.0
20	16.009	31.870	23.341	453.5	.104	1507.1	20.0
25	14.942	31.975	23.654	423.6	.126	1503.9	25.0
26	14.906	31.988	23.672	422.0	.129	1503.8	25.6

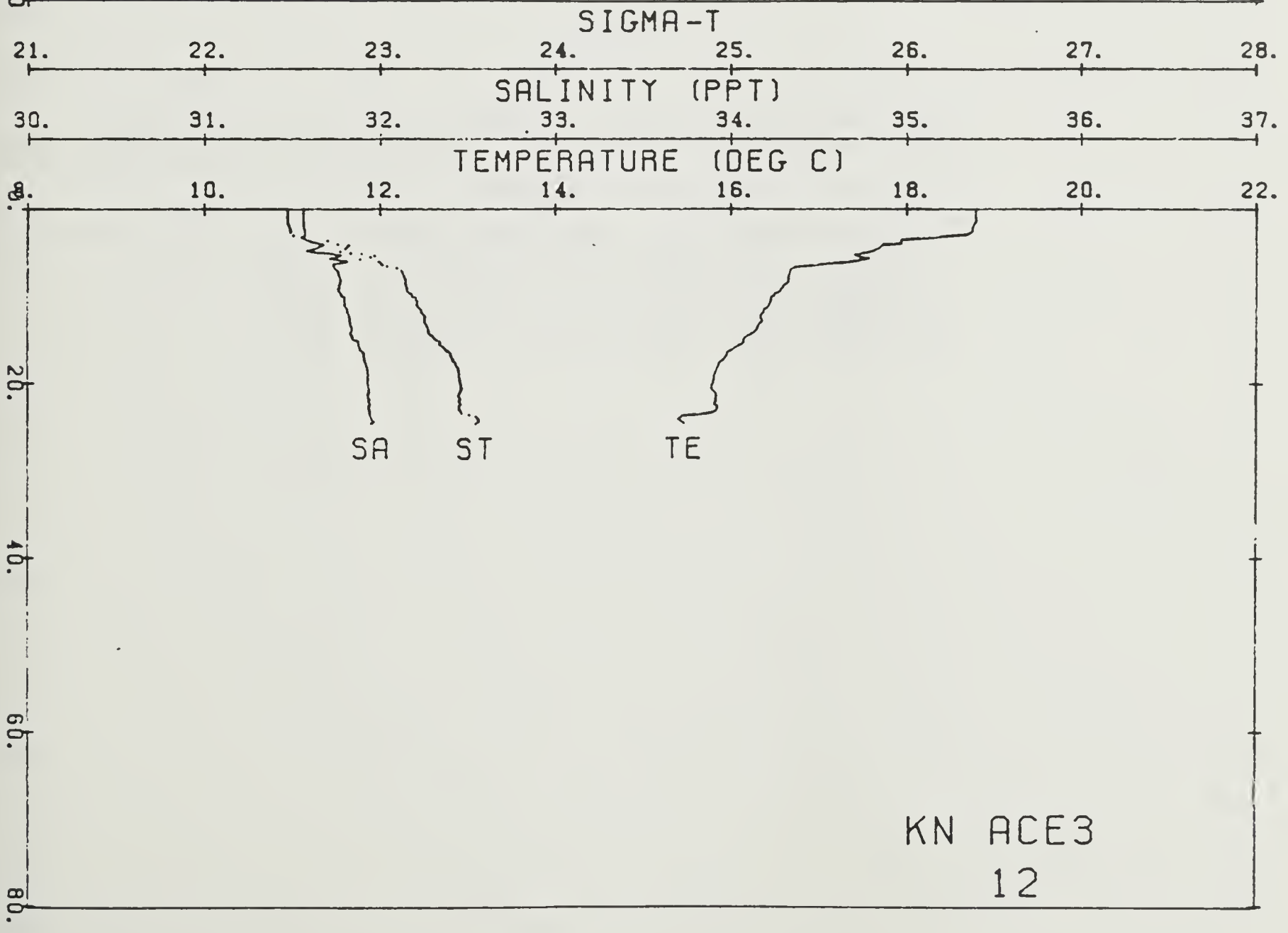
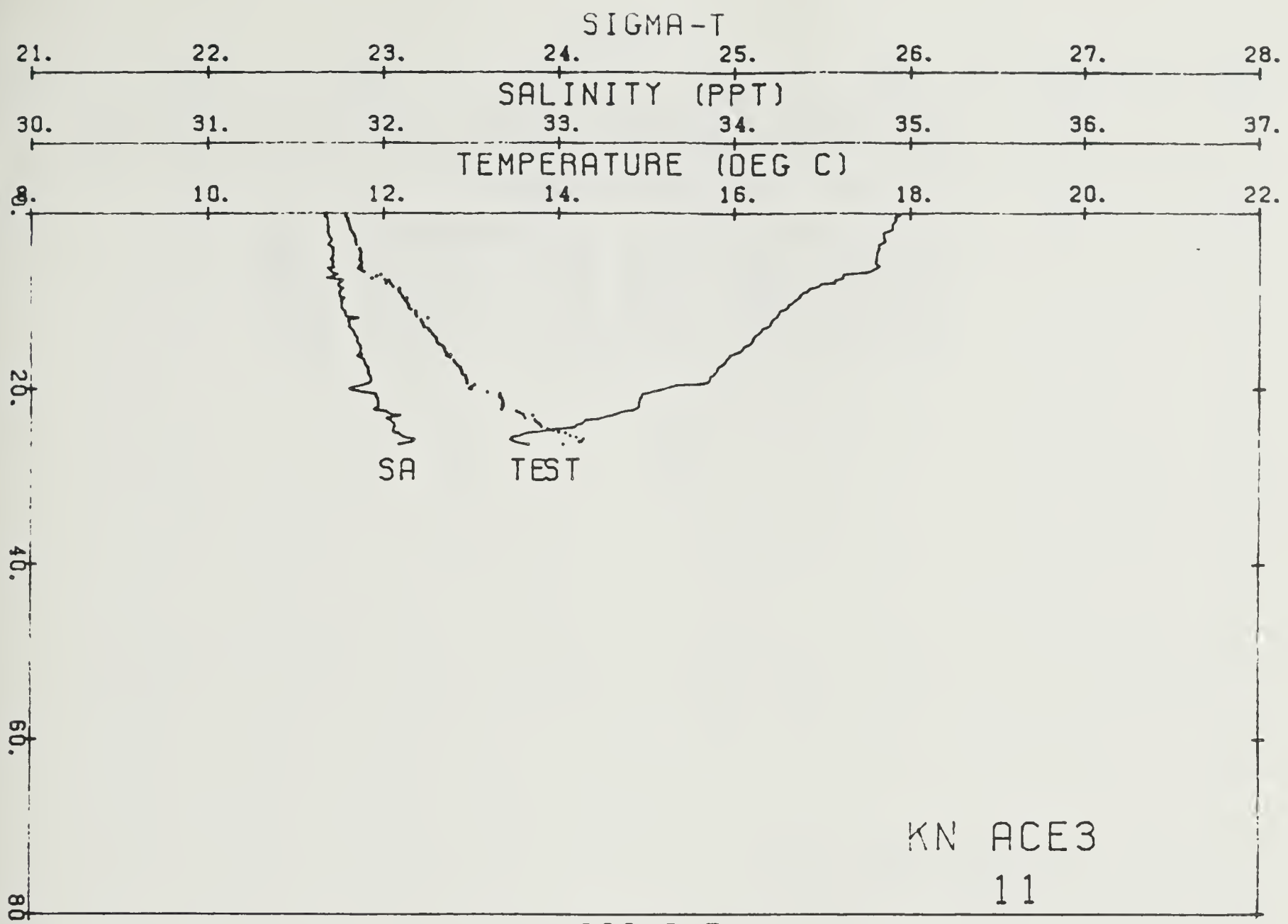


SHIP KN CRUISE ACE-3 STATION 11 POSITION 40 46.20 N 72 29.90 W
LOCAL TIME 23 DATE 77/ 8/ 7 WIND = 13knots DIR = 260 DEPTH= 28M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	17.882	31.674	22.756	508.8	0.000	1512.2	0.0
3	17.704	31.702	22.820	502.8	.015	1511.7	3.0
4	17.642	31.716	22.845	500.4	.020	1511.6	4.0
15	16.158	31.862	23.300	457.2	.073	1507.4	15.0
20	15.202	31.806	23.468	441.3	.095	1504.5	20.0
25	13.671	32.057	23.981	392.4	.116	1499.9	25.0
26	13.664	32.085	24.005	390.2	.122	1499.9	26.4

SHIP KN CRUISE ACE-3 STATION 12 POSITION 40 46.50 N 72 30.10 W
LOCAL TIME 438 DATE 77/ 8/ 7 WIND = 9knots DIR = 240 DEPTH= 26M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	18.792	31.561	22.448	538.3	0.000	1514.7	0.0
3	18.685	31.570	22.481	535.2	.016	1514.5	3.0
4	17.930	31.661	22.735	511.0	.021	1512.4	4.0
15	16.133	31.853	23.299	457.3	.075	1507.4	15.0
20	15.789	31.931	23.436	444.4	.097	1506.5	20.0
25	15.464	31.947	23.520	436.5	.117	1505.5	24.6



SHIP KN CRUISE ACE-3 STATION 13 POSITION 40 46.50 N 72 29.90 W
LOCAL TIME 826 DATE 77/ 8/ 7 WIND = knots DIR = DEPTH= 26M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	18.595	31.560	22.495	533.8	0.000	1514.1	0.0
3	18.724	31.586	22.484	535.0	.016	1514.6	3.0
4	18.581	31.558	22.498	533.7	.021	1514.2	4.0
15	16.239	31.827	23.255	461.5	.076	1507.6	15.0
20	15.717	31.918	23.442	443.8	.099	1506.2	20.0
23	15.520	31.928	23.493	439.1	.114	1505.7	23.4

SHIP KN CRUISE ACE-3 STATION 14 POSITION 40 46.70 N 72 29.90 W
LOCAL TIME 1212 DATE 77/ 8/ 7 WIND = 9knots DIR = 230 DEPTH= 26M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	18.318	31.614	22.604	523.3	0.000	1513.4	0.0
3	18.197	31.615	22.635	520.5	.016	1513.1	3.0
4	18.022	31.622	22.683	516.0	.021	1512.6	4.0
15	16.580	31.789	23.149	471.7	.075	1508.7	15.0
20	16.152	31.803	23.257	461.5	.098	1507.4	20.0
25	15.701	31.861	23.402	447.8	.118	1506.2	24.4

SIGMA-T

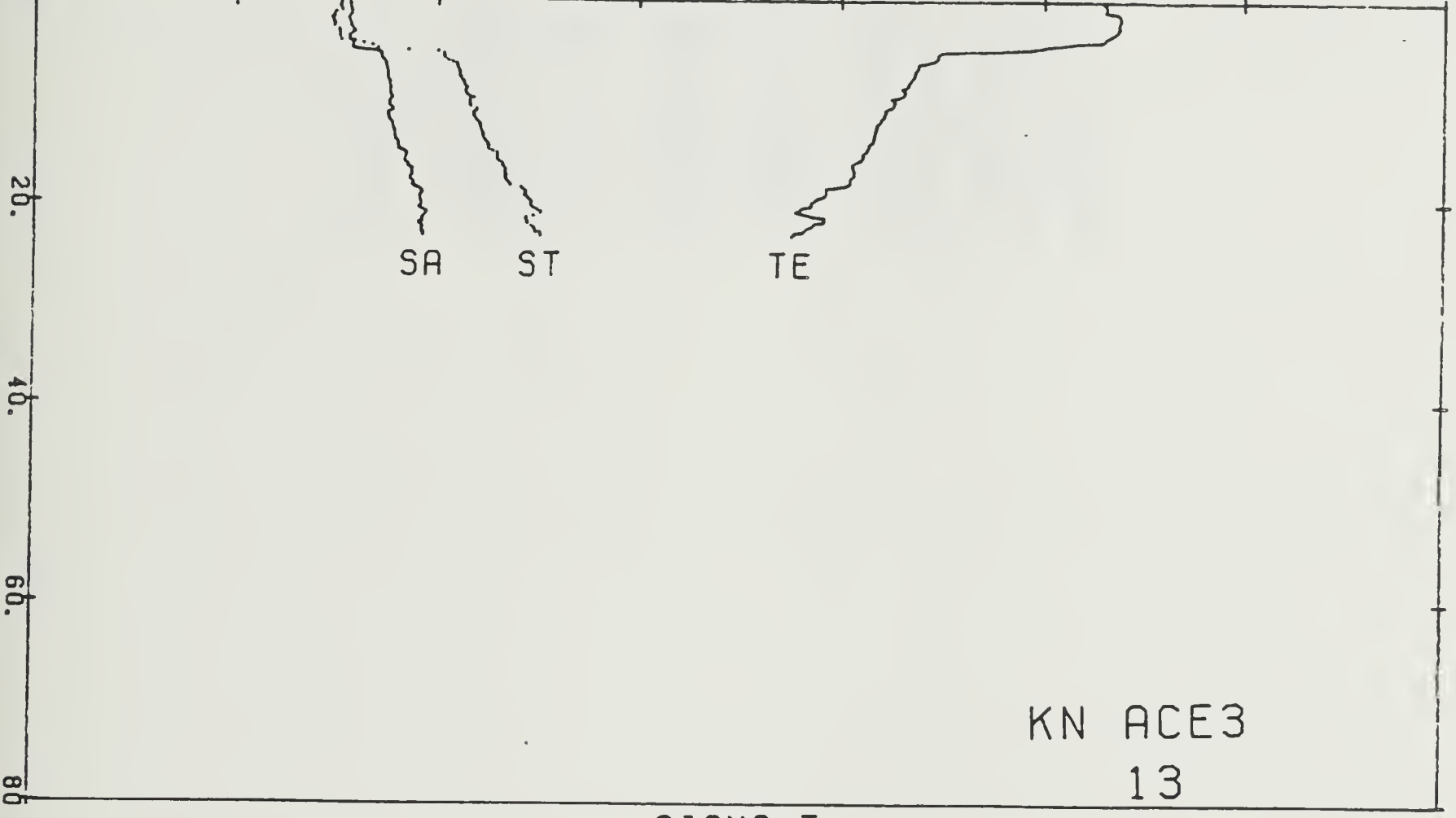
21. 22. 23. 24. 25. 26. 27. 28.

SALINITY (PPT)

30. 31. 32. 33. 34. 35. 36. 37.

TEMPERATURE (DEG C)

8. 10. 12. 14. 16. 18. 20. 22.



KN ACE3
13

SIGMA-T

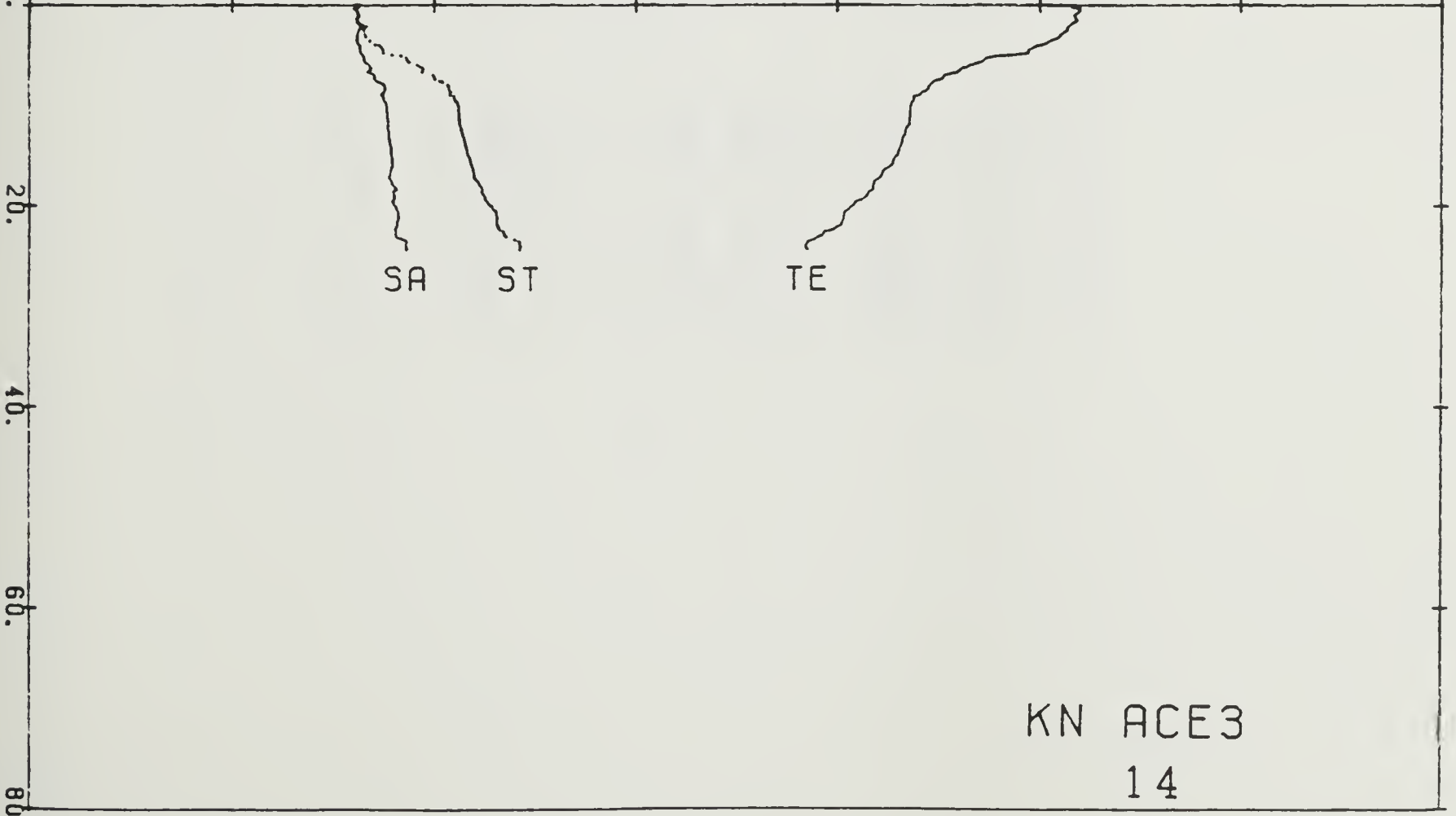
21. 22. 23. 24. 25. 26. 27. 28.

SALINITY (PPT)

30. 31. 32. 33. 34. 35. 36. 37.

TEMPERATURE (DEG C)

8. 10. 12. 14. 16. 18. 20. 22.



KN ACE3
14

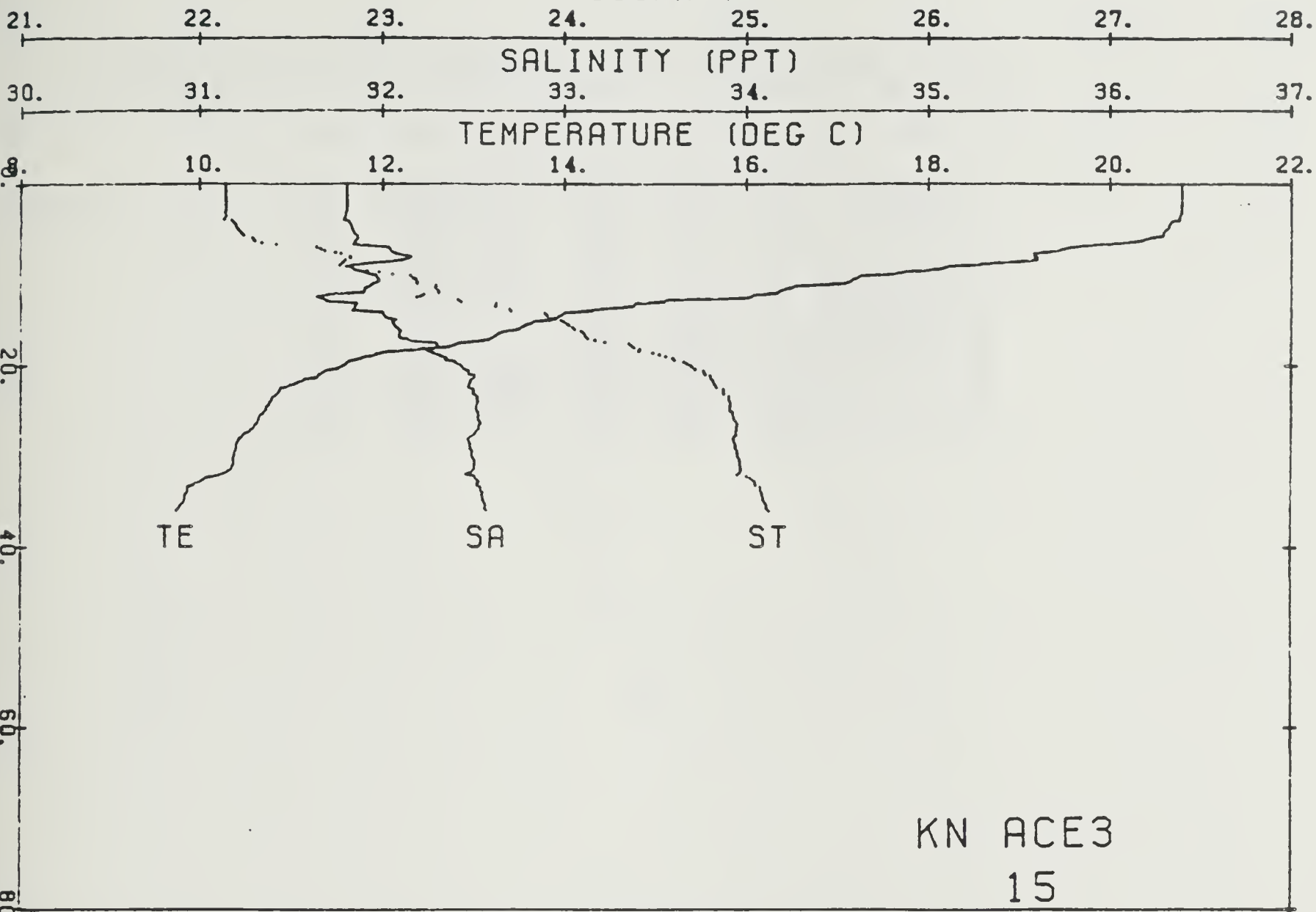
SHIP KN CRUISE ACE-3 STATION 15 POSITION 40 41.20 N, 72 26.30 W
LOCAL TIME 1608 DATE 77/ 8/ 7 WIND = 8knots DIR = 220 DEPTH= 36M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	20.797	31.806	22.120	569.7	0.000	1520.6	0.0
3	20.791	31.805	22.121	569.7	.017	1520.6	3.0
4	20.768	31.784	22.111	570.7	.023	1520.5	4.0
15	13.846	32.074	23.959	394.3	.076	1500.3	15.0
20	11.574	32.431	24.673	326.3	.094	1493.1	20.0
25	10.712	32.515	24.892	305.6	.110	1490.2	25.0
30	10.362	32.497	24.938	301.3	.125	1489.0	30.2
35	9.805	32.565	25.084	287.4	.140	1487.1	35.2
36	9.741	32.572	25.099	286.0	.142	1486.9	36.0

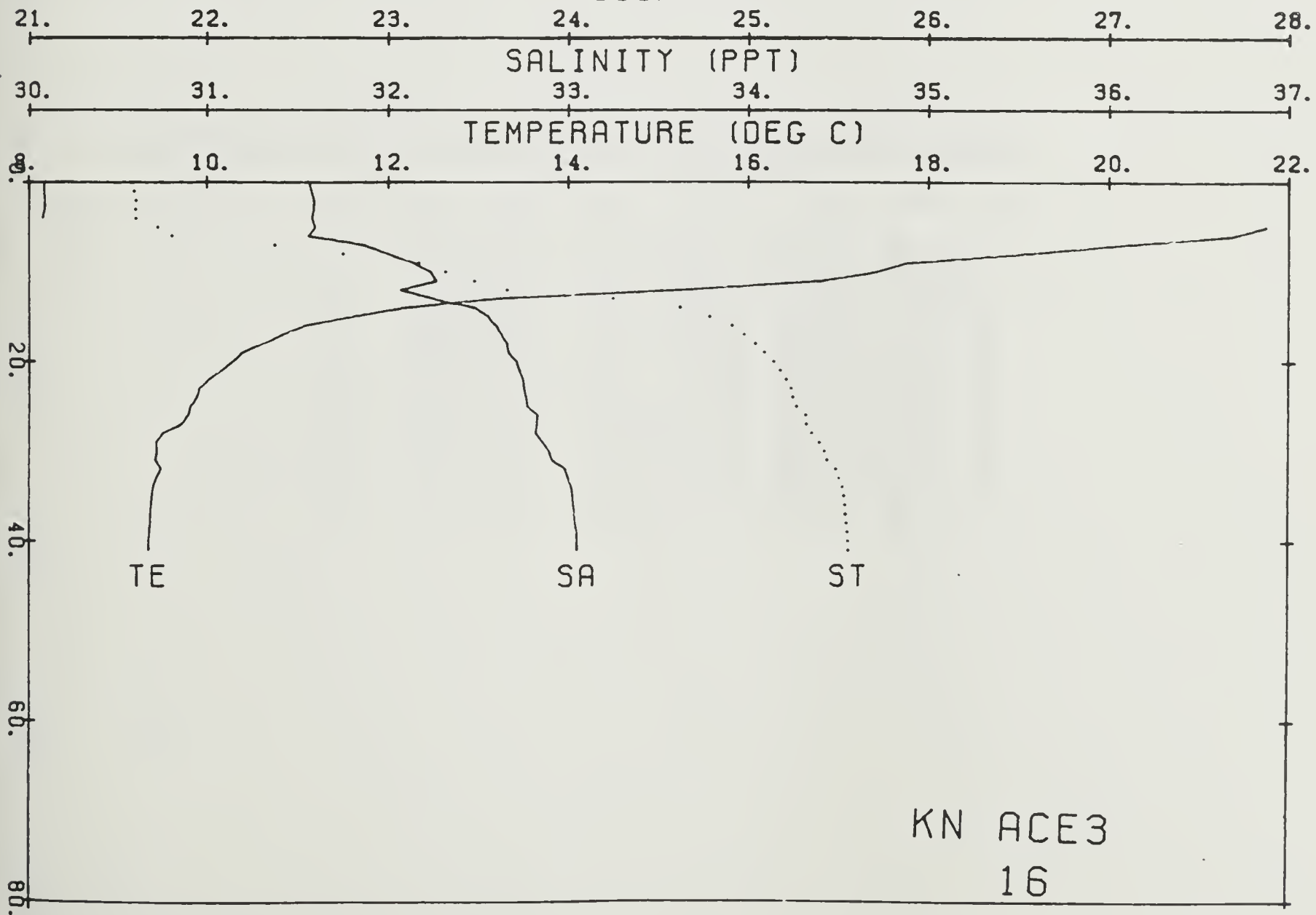
SHIP KN CRUISE ACE-3 STATION 16 POSITION 40 35.60 N 72 21.60 W
LOCAL TIME 1815 DATE 77/ 8/ 7 WIND = 10knots DIR = 300 DEPTH= 42M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	22.174	31.565	21.564	622.9	0.000	1524.0	0.0
5	21.741	31.578	21.693	610.7	.031	1522.9	5.0
10	17.308	32.218	23.309	456.3	.058	1511.3	10.0
15	11.589	32.549	24.763	317.7	.077	1493.2	15.1
20	10.270	32.710	25.120	283.8	.092	1488.8	20.1
25	9.828	32.797	25.261	270.4	.106	1487.3	25.1
30	9.433	32.895	25.402	257.1	.119	1486.1	30.1
35	9.383	33.028	25.514	246.5	.132	1486.2	35.2
40	9.353	33.052	25.537	244.4	.144	1486.2	40.2
41	9.351	33.053	25.538	244.3	.146	1486.2	41.0

SIGMA-T



SIGMA-T

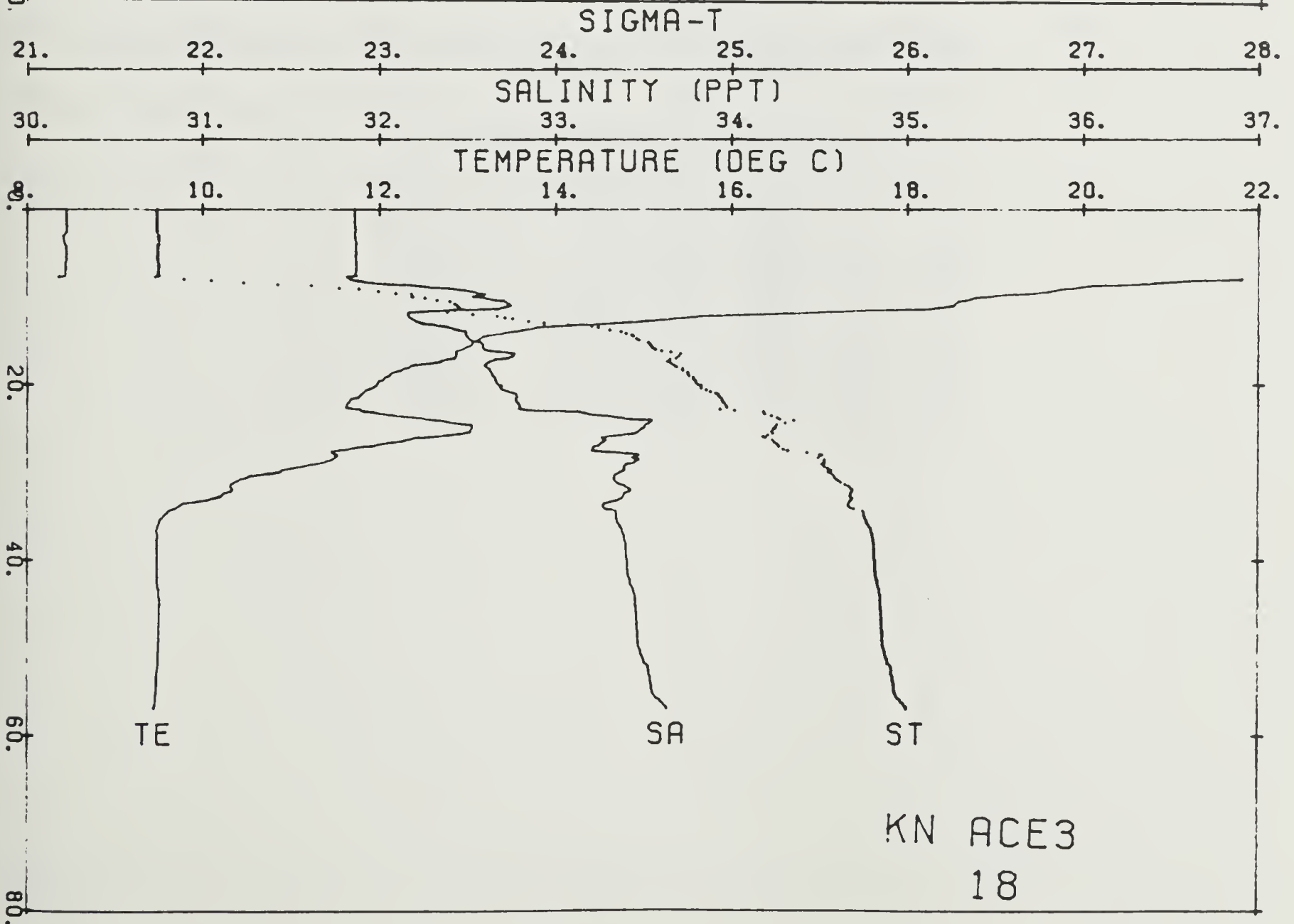
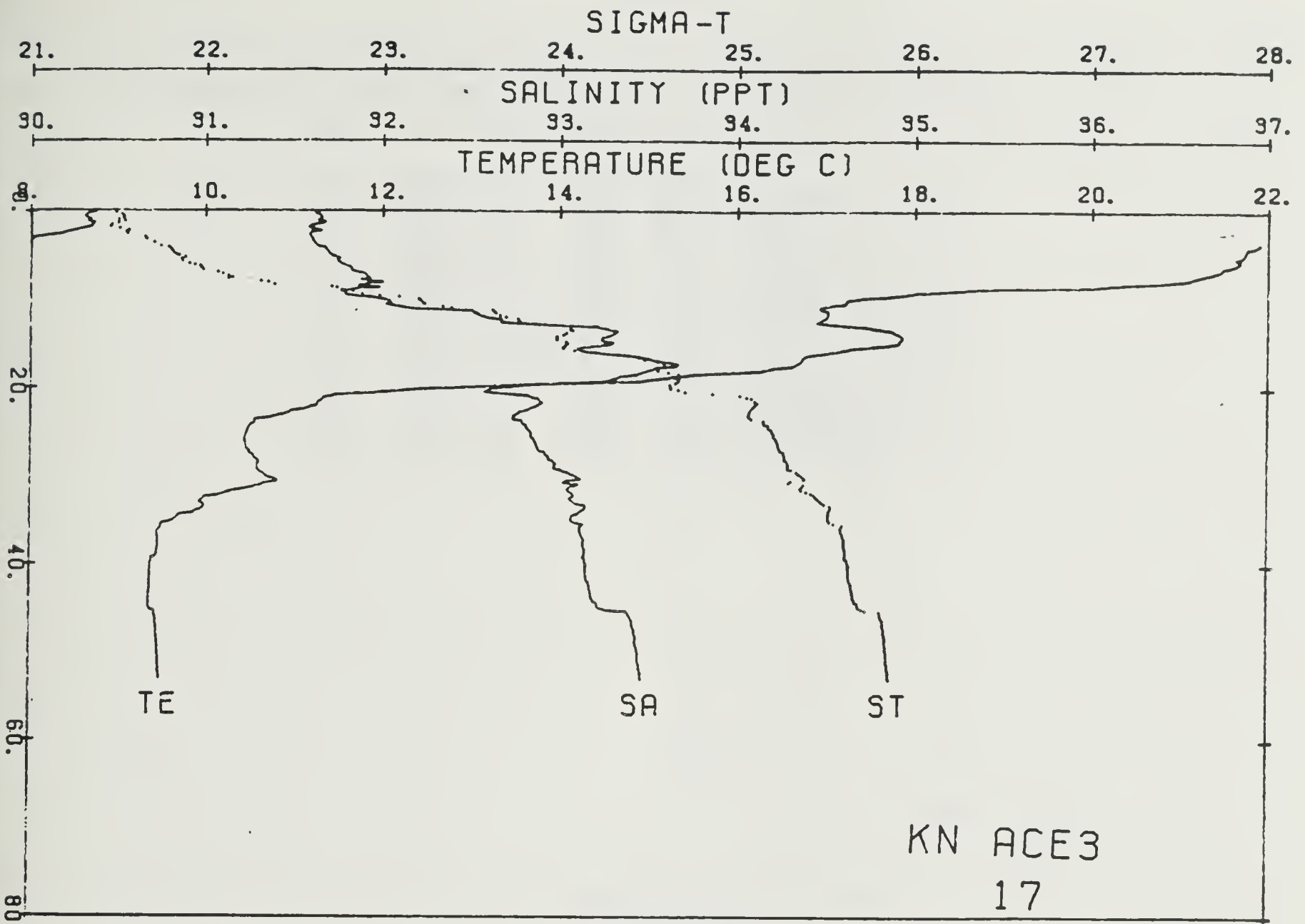


SHIP KN CRUISE ACE-3 STATION 17 POSITION 40 31.00 N 72 17.20 W
 LOCAL TIME 2019 DATE 77/ 8/ 7 WIND = 10knots DIR = 260 DEPTH= 53M

DTH	TEM	SAL	SGT	AND	DYN	SVL	PRS
0	22.747	31.634	21.456	633.2	0.000	1525.5	0.0
3	22.033	31.594	21.625	617.2	.019	1523.7	3.0
4	21.834	31.636	21.711	608.9	.025	1523.2	4.0
15	17.704	33.270	24.020	388.6	.080	1513.8	15.0
20	12.758	32.626	24.602	333.1	.098	1497.4	20.0
25	10.475	32.835	25.182	278.0	.113	1489.7	25.0
30	10.728	33.117	25.358	261.3	.127	1491.1	30.2
35	9.583	33.086	25.527	245.3	.140	1487.0	35.2
40	9.373	33.145	25.607	237.8	.152	1486.4	40.2
45	9.374	33.272	25.706	228.5	.163	1486.6	45.2
50	9.466	33.443	25.825	217.2	.175	1487.2	50.2
53	9.482	33.463	25.838	216.1	.181	1487.4	53.0

SHIP KN CRUISE ACE-3 STATION 18 POSITION 40 25.40 N 72 12.60 W
 LOCAL TIME 2225 DATE 77/ 8/ 7 WIND = 13knots DIR = 270 DEPTH= 57M

DTH	TEM	SAL	SGT	AND	DYN	SVL	PRS
0	22.446	31.861	21.713	608.7	0.000	1525.0	0.0
3	22.412	31.862	21.723	607.8	.018	1525.0	3.0
4	22.431	31.872	21.725	607.6	.024	1525.0	4.0
15	13.090	32.520	24.455	347.0	.077	1498.3	15.0
20	11.972	32.667	24.784	315.8	.093	1494.8	20.0
25	13.047	33.501	25.223	274.1	.108	1499.6	25.0
30	10.706	33.352	25.545	243.6	.122	1491.3	30.2
35	9.531	33.347	25.740	225.1	.133	1487.1	35.2
40	9.469	33.410	25.798	219.6	.144	1487.1	40.2
45	9.498	33.456	25.830	216.7	.155	1487.3	45.2
50	9.485	33.490	25.851	214.8	.166	1487.4	50.2
55	9.454	33.553	25.913	209.0	.177	1487.4	55.2
57	9.429	33.632	25.978	202.8	.180	1487.5	57.0



SHIP KN CRUISE ACE-3 STATION 19 POSITION 40 19.59 N 72 8.79 W
 LOCAL TIME 418 DATE 77/ 8/ 8 WIND = 10knots DIR = 250 DEPTH= 62M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	22.478	32.172	21.940	586.9	0.000	1525.4	0.0
5	22.412	32.059	21.872	593.6	.030	1525.2	5.0
10	18.445	32.410	23.182	468.4	.056	1514.9	10.0
15	14.225	32.363	24.104	380.5	.077	1501.9	15.0
20	12.366	32.884	24.878	306.9	.094	1496.4	20.0
25	10.497	33.223	25.481	249.5	.108	1490.3	25.0
30	10.172	33.339	25.627	235.7	.121	1489.4	30.2
35	10.277	33.469	25.710	227.9	.133	1490.0	35.2
40	9.914	33.577	25.856	214.2	.144	1488.9	40.2
45	9.444	33.601	25.952	205.1	.154	1487.3	45.2
50	9.490	33.695	26.018	198.9	.164	1487.7	50.2
55	9.320	33.744	26.084	192.8	.174	1487.2	55.2
60	9.260	33.783	26.124	189.0	.184	1487.1	60.2
62	9.228	33.798	26.141	187.4	.187	1487.0	62.0

SHIP KN CRUISE ACE-3 STATION 20 POSITION 40 14.60 N 72 4.30 W
 LOCAL TIME 545 DATE 77/ 8/ 8 WIND = 10knots DIR = 250 DEPTH= 62M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	22.646	32.103	21.840	596.5	0.000	1525.8	0.0
5	20.079	31.973	22.435	539.6	.028	1518.9	5.0
10	17.711	32.318	23.290	458.1	.053	1512.6	10.0
15	12.903	33.353	25.137	282.1	.072	1498.7	15.0
20	11.727	33.403	25.400	257.1	.085	1494.8	20.0
25	11.025	33.562	25.652	233.3	.098	1492.6	25.1
30	9.540	33.570	25.912	208.6	.109	1487.4	30.2
35	9.395	33.589	25.951	205.0	.119	1486.9	35.2
40	9.371	33.649	26.001	200.3	.130	1487.0	40.2
45	9.328	33.702	26.050	195.8	.139	1487.0	45.2
50	9.221	33.751	26.106	190.6	.149	1486.7	50.2
55	9.190	33.784	26.136	187.8	.159	1486.7	55.2
60	9.157	33.817	26.167	185.0	.168	1486.7	60.4
62	9.120	33.834	26.187	183.1	.171	1486.7	62.0

SIGMA-T

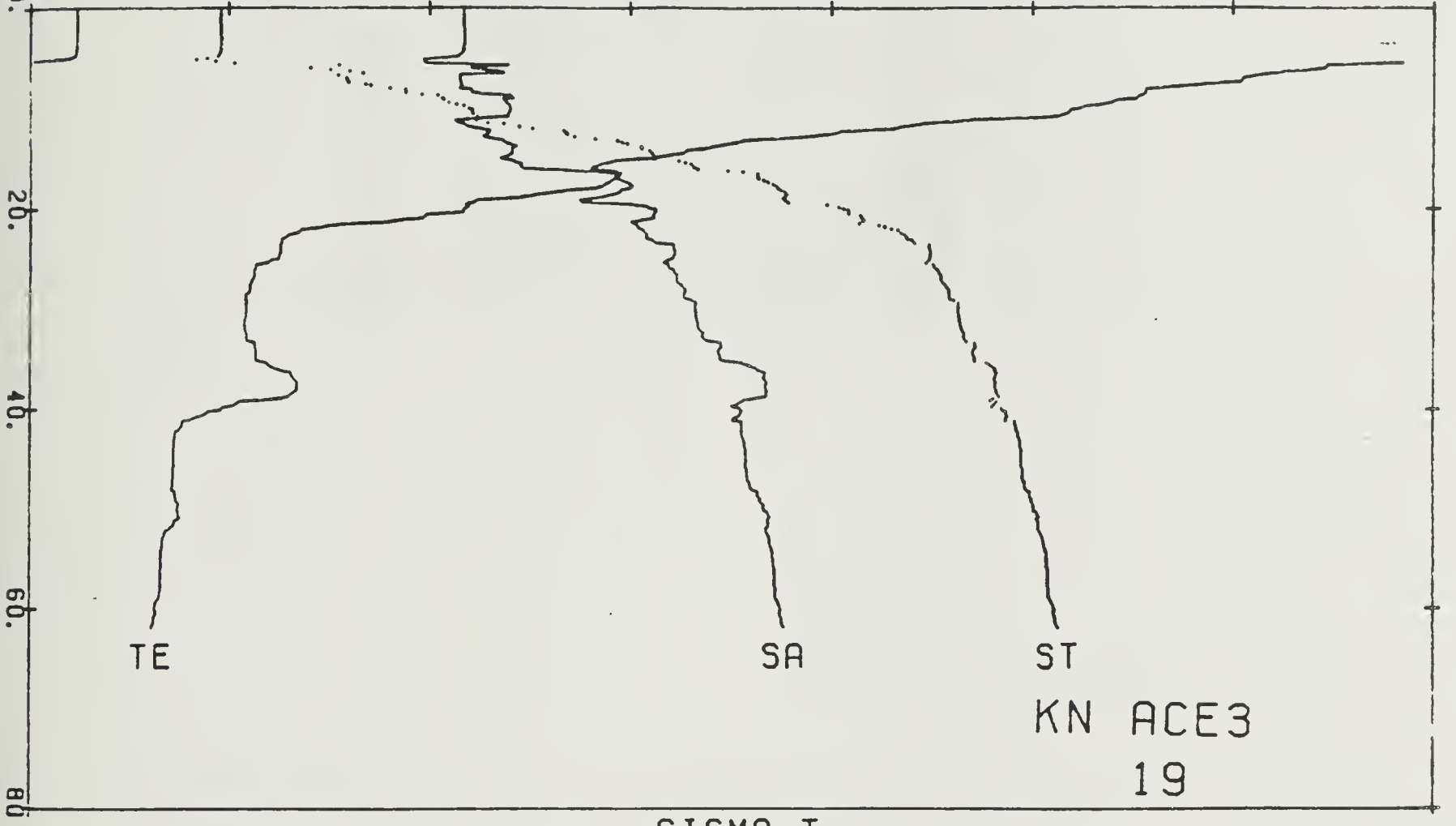
21. 22. 23. 24. 25. 26. 27. 28.

SALINITY (PPT)

30. 31. 32. 33. 34. 35. 36. 37.

TEMPERATURE (DEG C)

8. 10. 12. 14. 16. 18. 20. 22.



SIGMA-T

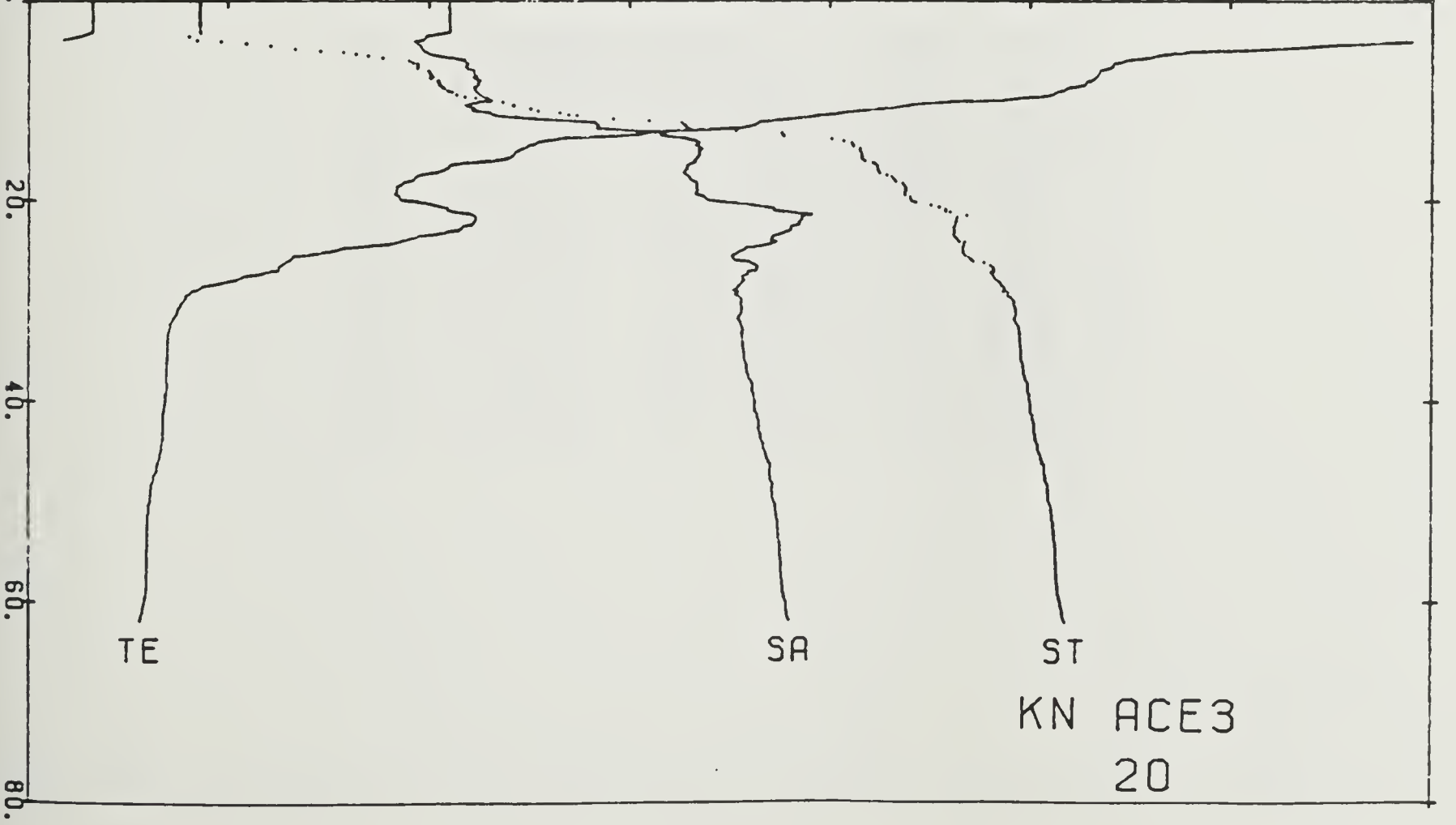
21. 22. 23. 24. 25. 26. 27. 28.

SALINITY (PPT)

30. 31. 32. 33. 34. 35. 36. 37.

TEMPERATURE (DEG C)

8. 10. 12. 14. 16. 18. 20. 22.



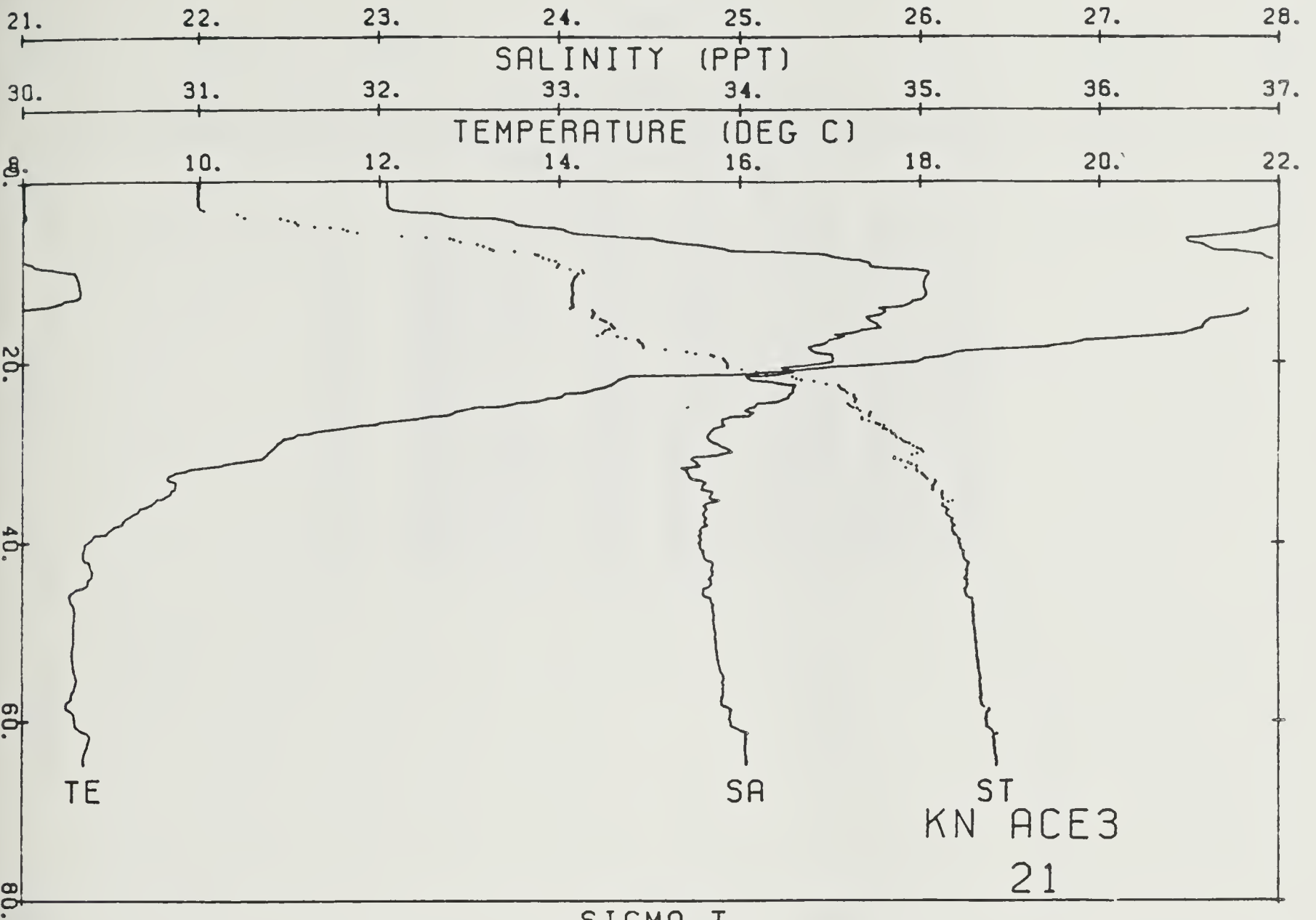
SHIP KN CRUISE ACE-3 STATION 21 POSITION 40 9.40 N 71 59.80 W
 LOCAL TIME 728 DATE 77/ 8/ 8 WIND = knots DIR = DEPTH= 65M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	22.018	32.045	21.971	583.9	0.000	1524.1	0.0
3	22.019	32.066	21.986	582.6	.017	1524.2	3.0
4	22.041	32.403	22.236	558.7	.023	1524.6	4.0
15	21.391	34.703	24.162	375.1	.075	1525.8	15.0
20	17.977	34.519	24.910	303.9	.092	1516.2	20.0
25	13.096	34.044	25.634	235.1	.105	1500.4	25.1
30	10.760	33.908	25.968	203.3	.116	1492.2	30.2
35	9.597	33.838	26.112	189.7	.126	1488.0	35.2
40	8.728	33.771	26.199	181.5	.136	1484.7	40.2
45	8.679	33.815	26.240	177.6	.145	1484.7	45.2
50	8.586	33.866	26.296	172.5	.153	1484.5	50.2
55	8.616	33.912	26.327	169.6	.162	1484.8	55.2
60	8.607	33.952	26.360	166.6	.171	1484.9	60.4
65	8.699	34.039	26.413	161.6	.178	1485.4	65.0

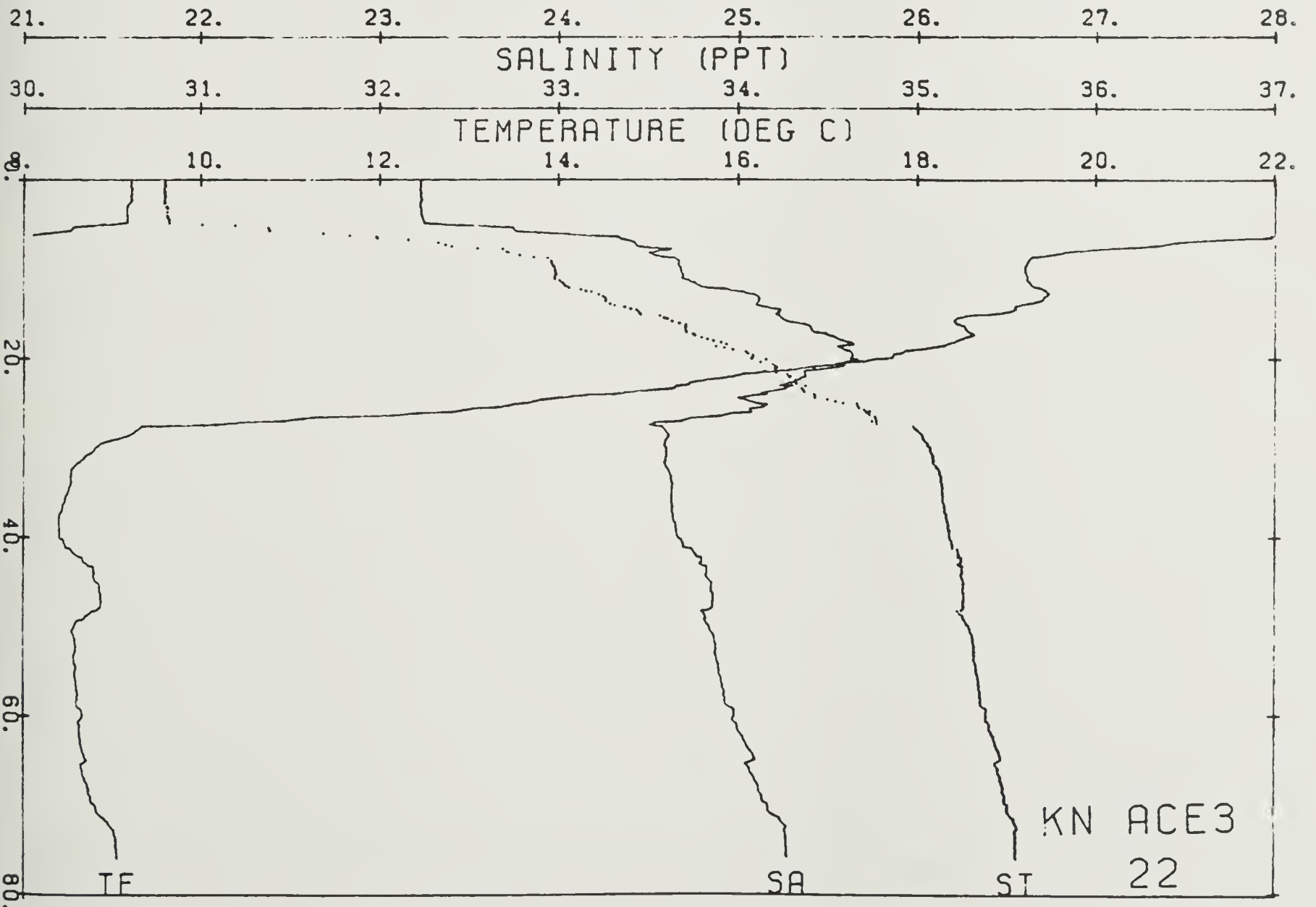
SHIP KN CRUISE ACE-3 STATION 22 POSITION 40 7.30 N 71 58.40 W
 LOCAL TIME 1150 DATE 77/ 8/ 8 WIND = 10knots DIR = 260 DEPTH= 76M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	23.215	32.233	21.777	602.5	0.000	1527.4	0.0
3	23.165	32.231	21.790	601.4	.018	1527.3	3.0
4	23.171	32.239	21.794	601.0	.024	1527.3	4.0
15	18.924	34.206	24.435	349.1	.076	1518.4	15.0
20	17.713	34.628	25.059	289.8	.092	1515.5	20.0
25	13.637	34.100	25.568	241.4	.106	1502.3	25.0
30	8.800	33.599	26.053	195.2	.117	1484.6	30.2
35	8.495	33.628	26.123	188.6	.127	1483.6	35.2
40	8.412	33.669	26.167	184.5	.136	1483.4	40.2
45	8.852	33.854	26.244	177.3	.145	1485.4	45.2
50	8.565	33.840	26.278	174.1	.154	1484.4	50.2
55	8.579	33.896	26.320	170.3	.162	1484.6	55.2
60	8.638	33.969	26.368	165.8	.171	1485.0	60.4
65	8.647	34.042	26.424	160.6	.179	1485.2	65.4
70	8.821	34.169	26.496	153.9	.187	1486.1	70.4
75	9.055	34.273	26.541	149.8	.195	1487.2	75.4
76	9.058	34.278	26.544	149.5	.196	1487.2	76.0

SIGMA-T



SIGMA-T



SHIP KN CRUISE ACE-3 STATION 23 POSITION 40 5.00 N 71 55.50 W
LOCAL TIME 1322 DATE 77/ 8/ 8 WIND = 10knots DIR = 260 DEPTH= 77M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	23.537	32.694	22.033	578.0	0.000	1528.7	0.0
3	23.195	33.399	22.666	517.6	.016	1528.7	3.0
4	22.942	33.760	23.012	484.5	.021	1528.5	4.0
15	20.847	34.697	24.306	361.4	.068	1524.3	15.0
20	15.775	34.312	25.270	269.6	.084	1509.3	20.0
25	14.724	34.406	25.575	240.8	.097	1506.2	25.1
30	12.200	34.320	26.023	198.2	.108	1497.8	30.2
35	12.868	34.591	26.103	190.8	.118	1500.5	35.2
40	10.571	34.367	26.359	166.4	.127	1492.3	40.2
45	9.549	34.251	26.443	158.5	.135	1488.5	45.2
50	9.273	34.334	26.553	148.1	.142	1487.7	50.2
55	9.452	34.430	26.599	143.9	.150	1488.5	55.2
60	9.586	34.482	26.618	142.3	.157	1489.2	60.4
65	9.616	34.499	26.626	141.6	.164	1489.4	65.4
70	9.636	34.517	26.637	140.7	.171	1489.6	70.4
75	9.642	34.527	26.643	140.2	.178	1489.7	75.4
77	9.644	34.533	26.648	139.8	.181	1489.7	77.0

SIGMA-T

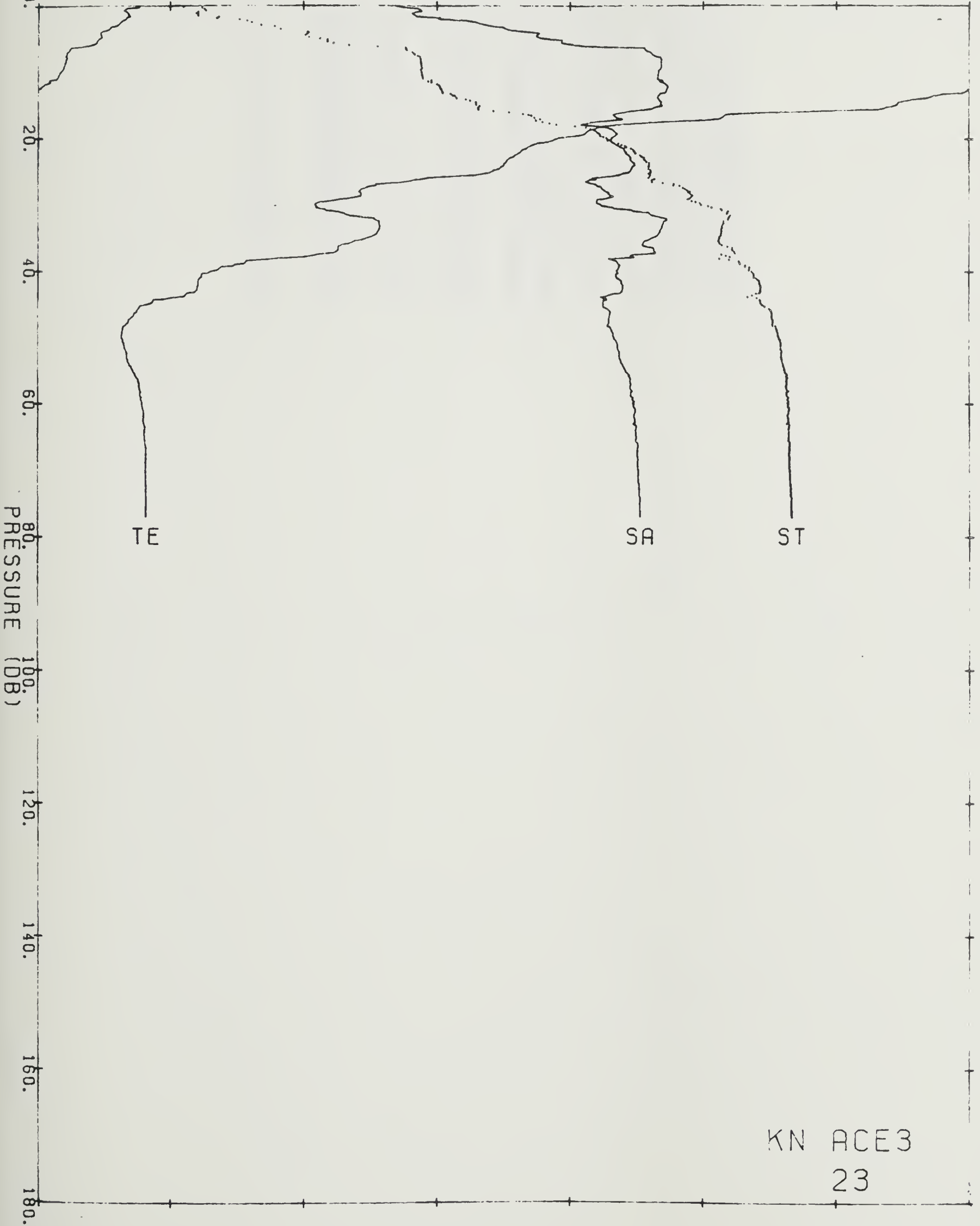
21. 22. 23. 24. 25. 26. 27. 28.

SALINITY (PPT)

30. 31. 32. 33. 34. 35. 36. 37.

TEMPERATURE (DEG C)

8. 10. 12. 14. 16. 18. 20. 22.



KN ACE3
23

SHIP KN CRUISE ACE-3 STATION 24 POSITION 40 2.50 N 71 53.30 W
LOCAL TIME 1516 DATE 77/ 8/ 8 WIND = 12knots DIR = 250 DEPTH= 83M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	23.949	33.018	22.158	566.0	0.000	1530.1	0.0
5	23.980	33.696	22.662	518.0	.027	1531.0	5.0
10	23.393	34.842	23.702	418.9	.051	1530.9	10.0
15	23.089	35.125	24.004	390.2	.071	1530.6	15.0
20	22.080	35.169	24.326	359.7	.089	1528.2	20.0
25	17.037	34.664	25.249	271.9	.106	1513.7	25.1
30	12.461	33.980	25.709	228.1	.118	1498.3	30.2
35	9.560	33.894	26.162	185.0	.129	1487.9	35.2
40	8.661	33.866	26.283	173.5	.138	1484.6	40.2
45	8.449	33.916	26.355	166.7	.146	1484.0	45.2
50	9.747	34.460	26.573	146.3	.154	1489.6	50.2
55	9.705	34.416	26.546	149.0	.161	1489.5	55.2
60	10.220	34.641	26.634	140.8	.169	1491.7	60.4
65	10.181	34.713	26.697	134.9	.176	1491.7	65.4
70	10.171	34.753	26.730	131.9	.182	1491.8	70.4
75	10.180	34.771	26.743	130.8	.189	1492.0	75.4
80	10.181	34.785	26.753	129.9	.196	1492.1	80.4
83	10.181	34.792	26.759	129.5	.199	1492.1	83.0

SIGMA-T

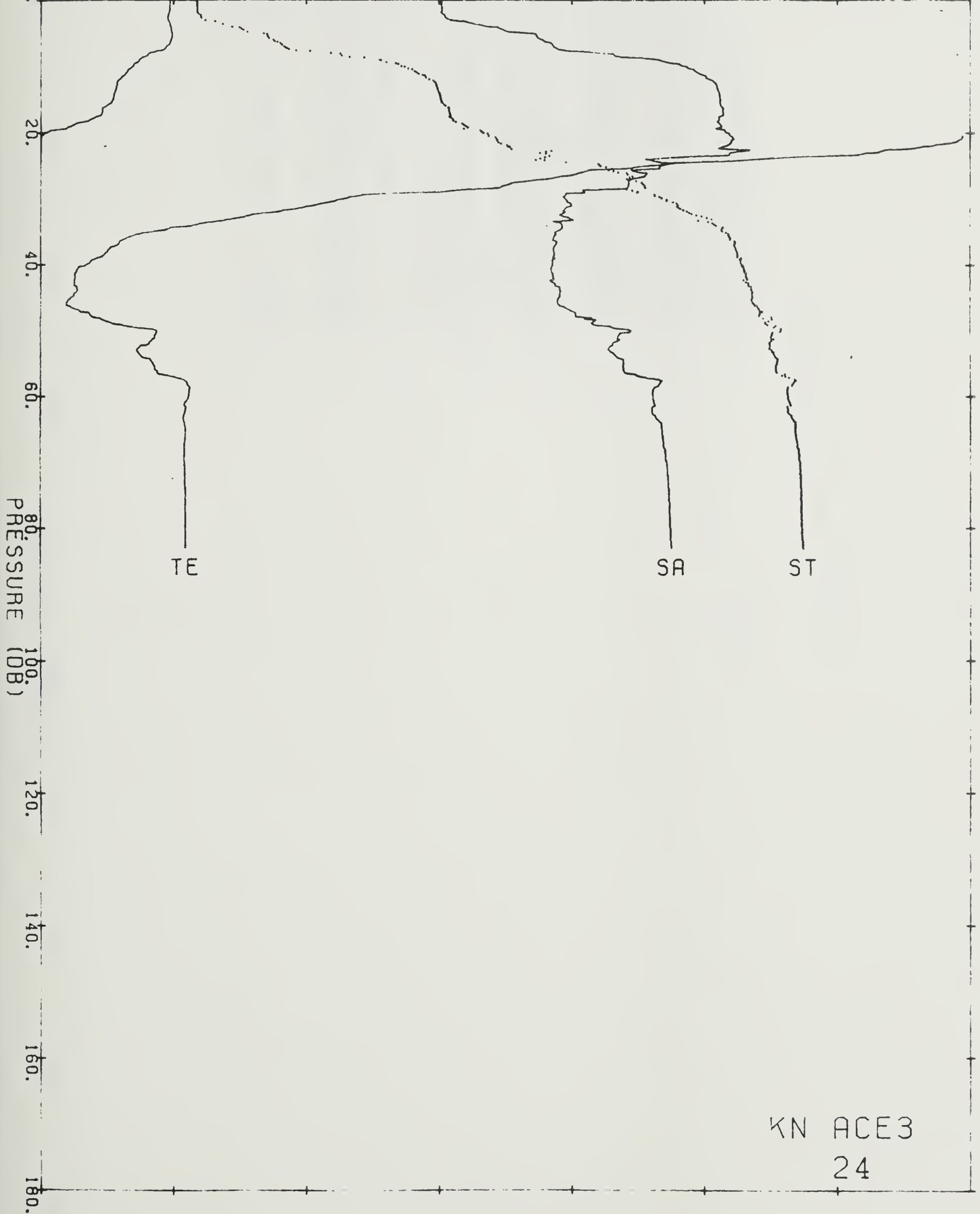
21. 22. 23. 24. 25. 26. 27. 28.

SALINITY (PPT)

30. 31. 32. 33. 34. 35. 36. 37.

TEMPERATURE (DEG C)

8. 10. 12. 14. 16. 18. 20. 22.



KN ACE3
24

SHIP KN CRUISE ACE-3 STATION 25 POSITION 39 59.50 N 71 52.00 W
LOCAL TIME 1621 DATE 77/ 8/ 8 WIND = 13knots DIR = 240 DEPTH= 95M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	24.287	33.742	22.606	523.1	0.000	1531.7	0.0
5	24.317	33.642	22.522	531.4	.026	1531.8	5.0
10	23.656	35.061	23.791	410.4	.050	1531.8	10.0
15	22.446	35.152	24.209	370.7	.069	1529.0	15.0
20	20.824	35.237	24.723	321.8	.087	1525.0	20.0
25	17.716	35.246	25.531	245.1	.101	1516.4	25.1
30	16.132	35.271	25.927	207.6	.113	1511.7	30.2
35	15.078	35.225	26.129	188.4	.123	1508.5	35.2
40	14.060	35.105	26.256	176.5	.132	1505.2	40.2
45	11.230	34.782	26.564	147.1	.140	1495.2	45.2
50	10.735	34.747	26.626	141.4	.147	1493.5	50.2
55	10.521	34.727	26.649	139.3	.154	1492.8	55.2
60	10.459	34.738	26.668	137.6	.161	1492.7	60.4
65	10.504	34.772	26.687	135.9	.168	1493.0	65.4
70	10.482	34.792	26.707	134.2	.175	1493.0	70.4
75	10.586	34.840	26.726	132.5	.182	1493.5	75.4
80	10.801	34.939	26.765	128.9	.188	1494.5	80.4
85	10.912	35.012	26.801	125.6	.194	1495.1	85.4
90	10.915	35.041	26.823	123.6	.201	1495.2	90.6
95	10.905	35.056	26.837	122.4	.206	1495.3	95.0

SIGMA-T

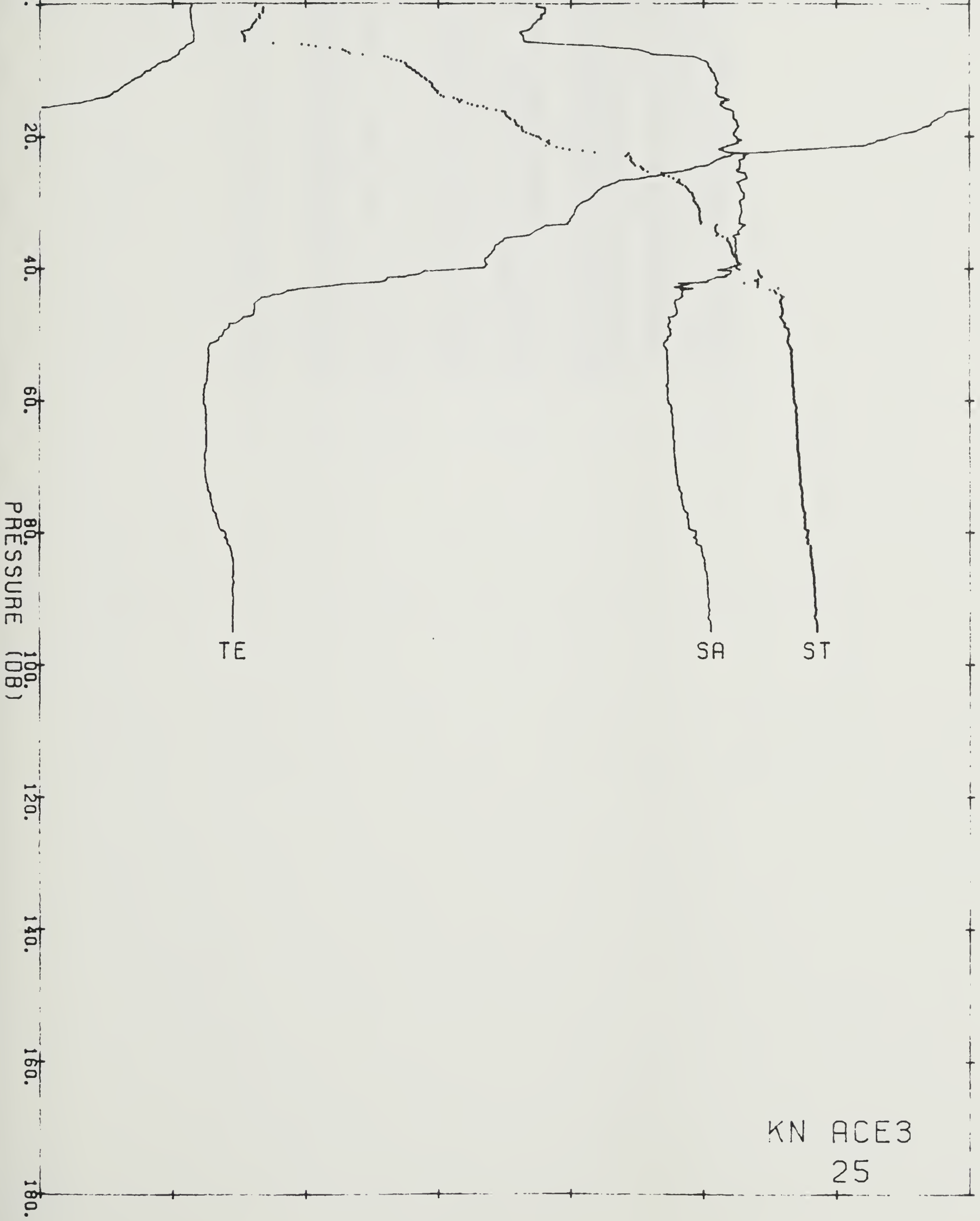
21. 22. 23. 24. 25. 26. 27. 28.

SALINITY (PPT)

30. 31. 32. 33. 34. 35. 36. 37.

TEMPERATURE (DEG C)

8. 10. 12. 14. 16. 18. 20. 22.

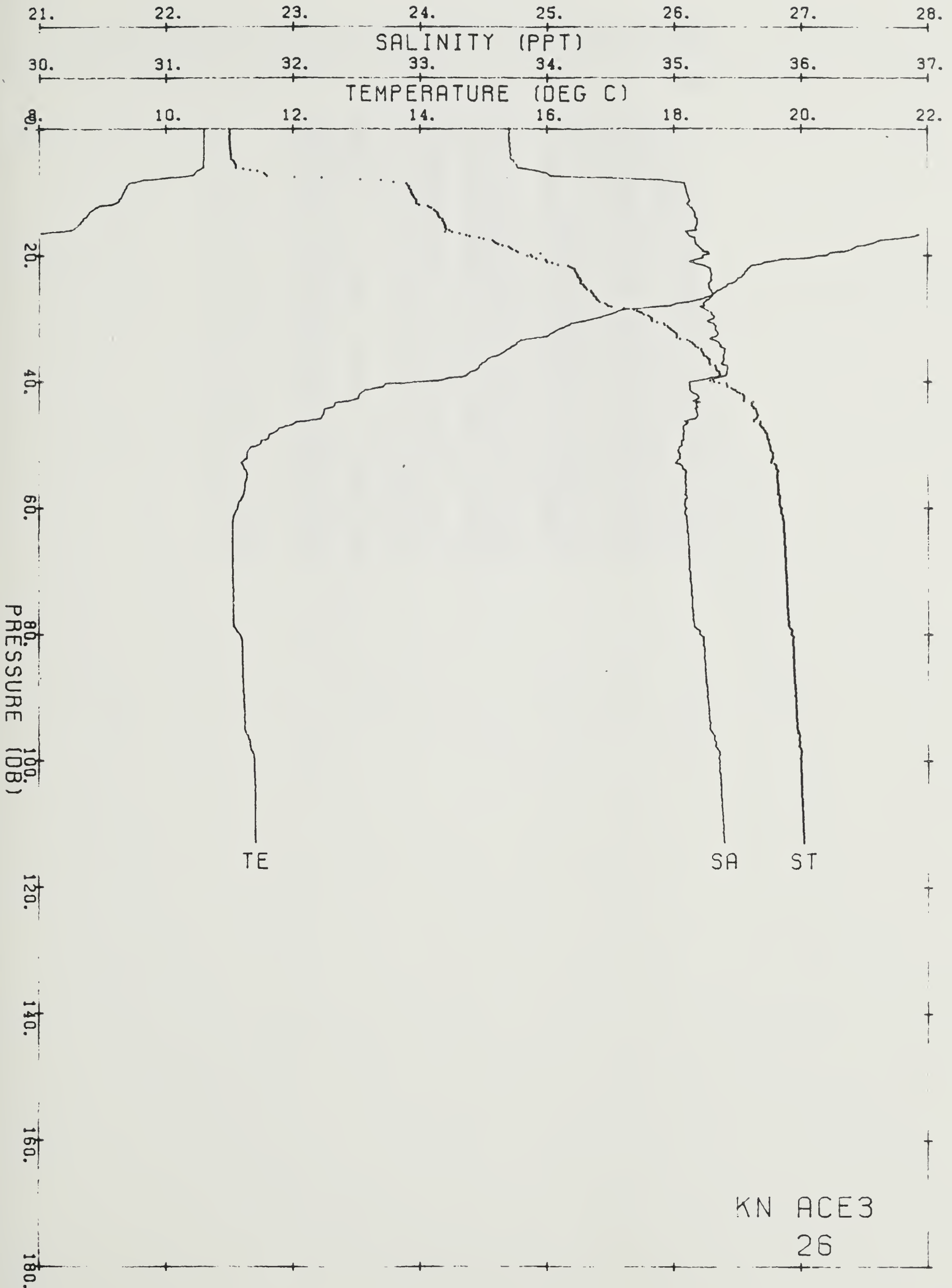


KN ACE3
25

SHIP KN CRUISE ACE-3 STATION 26 POSITION 39 56.50 N 71 49.60 W
LOCAL TIME 1817 DATE 77/ 8/ 8 WIND = 13knots DIR = 240 DEPTH= 113M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	24.603	33.695	22.476	535.6	0.000	1532.4	0.0
5	24.593	33.730	22.506	532.9	.027	1532.5	5.0
10	23.337	35.098	23.912	398.8	.050	1531.1	10.0
15	22.646	35.181	24.174	374.0	.069	1529.5	15.0
20	20.412	35.226	24.826	312.0	.086	1523.8	20.0
25	18.766	35.276	25.293	267.7	.101	1519.4	25.1
30	16.676	35.277	25.805	219.2	.114	1513.4	30.2
35	15.325	35.398	26.208	181.0	.124	1509.5	35.2
40	13.712	35.122	26.342	168.3	.132	1504.0	40.2
45	12.469	35.185	26.642	139.9	.140	1500.0	45.2
50	11.401	35.044	26.736	131.0	.147	1496.3	50.2
55	11.273	35.088	26.794	125.6	.153	1495.9	55.2
60	11.094	35.086	26.826	122.7	.160	1495.4	60.4
65	11.044	35.109	26.853	120.2	.166	1495.3	65.4
70	11.048	35.126	26.866	119.2	.172	1495.5	70.4
75	11.058	35.142	26.876	118.3	.178	1495.6	75.4
80	11.186	35.234	26.924	113.9	.184	1496.2	80.4
85	11.208	35.245	26.929	113.6	.189	1496.4	85.4
90	11.224	35.266	26.942	112.4	.195	1496.6	90.6
95	11.265	35.297	26.959	111.0	.201	1496.8	95.6
100	11.395	35.358	26.982	108.9	.206	1497.5	100.6
105	11.409	35.373	26.991	108.2	.212	1497.6	105.6
110	11.410	35.389	27.004	107.1	.217	1497.7	110.6
112	11.414	35.396	27.009	106.7	.220	1497.8	113.0

SIGMA-T



KN ACE3
26

SHIP KN CRUISE ACE-3 STATION 27 POSITION 39 54.40 N 71 48.00 W
 LOCAL TIME 1945 DATE 77/ 8/ 8 WIND = 13knots DIR = 230 DEPTH= 139M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	24.530	34.423	23.049	480.9	0.000	1533.1	0.0
5	24.144	34.714	23.384	449.0	.023	1532.5	5.0
10	23.538	35.043	23.812	408.4	.045	1531.5	10.0
15	23.037	35.125	24.020	388.7	.065	1530.5	15.0
20	22.807	35.123	24.084	382.8	.084	1530.0	20.0
25	20.856	35.197	24.685	325.7	.102	1525.1	25.2
30	18.658	35.248	25.299	267.4	.117	1519.2	30.2
35	17.281	35.313	25.688	230.5	.130	1515.3	35.2
40	15.774	35.250	25.992	201.6	.140	1510.8	40.2
45	14.920	35.284	26.209	181.1	.150	1508.2	45.2
50	14.201	35.326	26.397	163.4	.159	1506.1	50.2
55	13.961	35.493	26.577	146.5	.166	1505.6	55.2
60	12.712	35.312	26.693	135.5	.173	1501.3	60.2
65	13.087	35.626	26.861	119.7	.180	1503.0	65.4
70	12.870	35.520	26.823	123.4	.186	1502.2	70.4
75	12.708	35.586	26.907	115.6	.192	1501.9	75.4
80	12.371	35.521	26.923	114.2	.198	1500.7	80.4
85	12.779	35.783	27.045	102.8	.203	1502.5	85.4
90	13.319	35.875	27.006	106.7	.209	1504.5	90.6
95	12.362	35.720	27.079	99.8	.214	1501.2	95.6
100	12.166	35.711	27.110	97.0	.219	1500.6	100.6
105	12.065	35.712	27.131	95.1	.224	1500.3	105.6
110	12.013	35.725	27.151	93.3	.228	1500.2	110.6
115	12.017	35.738	27.160	92.6	.233	1500.3	115.6
120	12.019	35.755	27.173	91.5	.238	1500.5	120.8
125	12.019	35.765	27.180	90.9	.242	1500.5	125.8
130	12.022	35.780	27.192	90.0	.247	1500.7	130.8
135	12.020	35.791	27.200	89.3	.251	1500.7	135.8
138	12.022	35.801	27.208	88.6	.254	1500.8	139.0

SIGMA-T

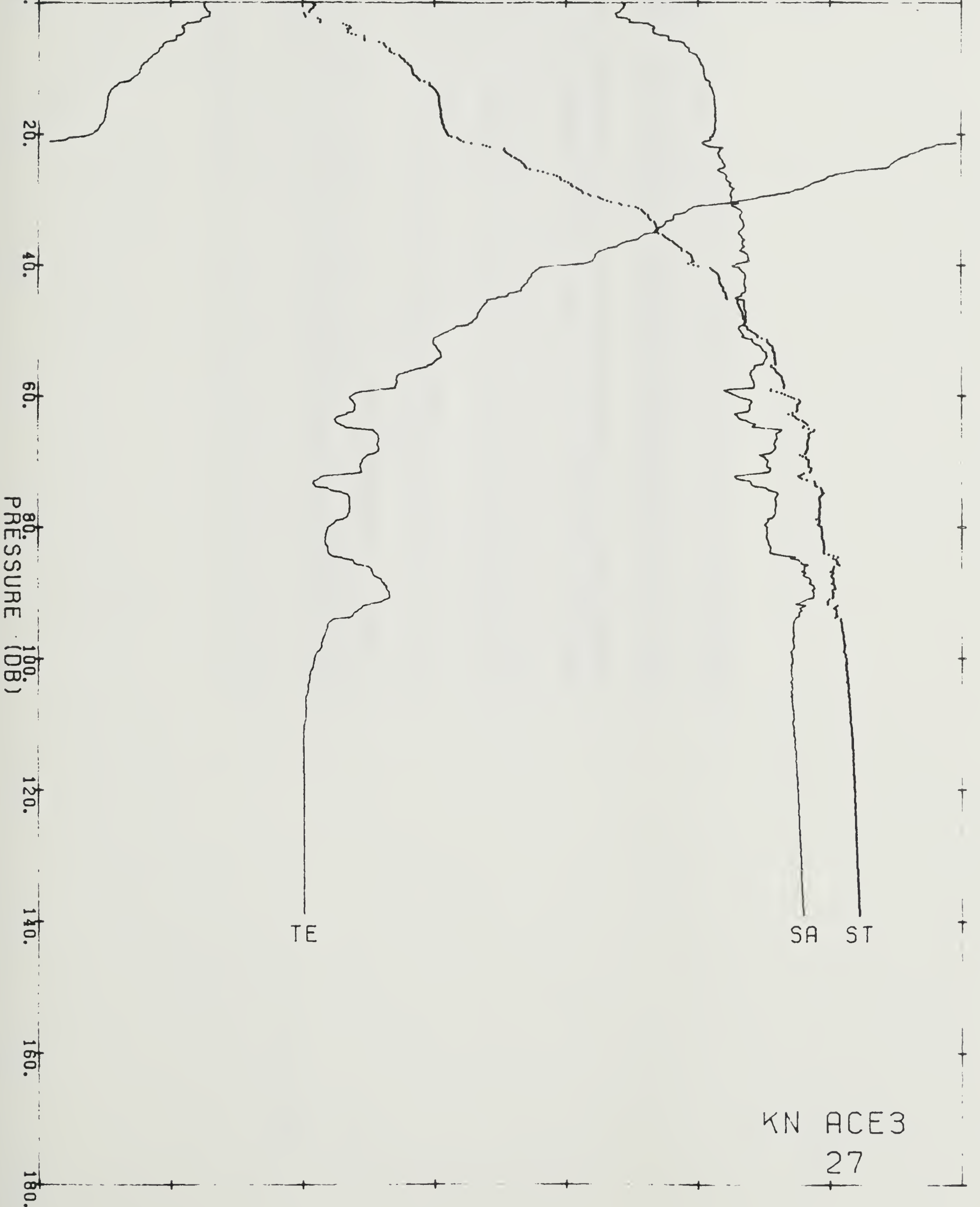
21. 22. 23. 24. 25. 26. 27. 28.

SALINITY (PPT)

30. 31. 32. 33. 34. 35. 36. 37.

TEMPERATURE (DEG C)

8. 10. 12. 14. 16. 18. 20. 22.



SHIP KN CRUISE ACE-3 STATION 28 POSITION 39 51.40 N 71 45.10 W
 LOCAL TIME 2201 DATE 77/ 8/ 8 WIND = knots DIR = DEPTH= 260M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	24.628	34.351	22.965	488.8	0.000	1533.2	0.0
5	24.634	34.368	22.976	488.0	.024	1533.3	5.0
10	24.461	34.474	23.108	475.6	.049	1533.1	10.0
15	22.447	35.096	24.166	374.8	.070	1528.9	15.0
20	21.936	35.052	24.277	364.4	.088	1527.7	20.0
25	20.377	35.153	24.780	316.6	.106	1523.7	25.2
30	17.736	35.305	25.571	241.4	.120	1516.6	30.2
35	16.309	35.363	25.956	204.9	.131	1512.5	35.2
40	15.634	35.468	26.192	182.6	.141	1510.6	40.2
45	14.849	35.391	26.308	171.8	.150	1508.1	45.2
50	13.366	35.328	26.573	146.6	.158	1503.3	50.2
55	13.635	35.477	26.633	141.1	.165	1504.5	55.2
60	13.757	35.602	26.704	134.5	.172	1505.1	60.4
65	13.676	35.665	26.770	128.4	.179	1505.0	65.4
70	13.522	35.730	26.853	120.7	.185	1504.7	70.4
75	13.309	35.778	26.934	113.1	.191	1504.1	75.4
80	13.163	35.798	26.979	109.0	.196	1503.7	80.4
85	12.994	35.784	27.003	106.9	.202	1503.2	85.4
90	12.298	35.666	27.049	102.5	.207	1500.8	90.6
95	12.237	35.694	27.083	99.4	.212	1500.7	95.6
100	12.219	35.708	27.097	98.2	.217	1500.8	100.6
105	12.200	35.720	27.110	97.1	.222	1500.8	105.6
110	12.151	35.736	27.133	95.1	.227	1500.7	110.6
115	12.104	35.755	27.157	92.9	.231	1500.7	115.6
120	12.128	35.794	27.182	90.7	.236	1500.9	120.8
125	12.074	35.813	27.207	88.4	.241	1500.8	125.8
130	12.009	35.831	27.234	86.0	.245	1500.7	130.8
135	11.978	35.843	27.249	84.7	.249	1500.7	135.8
140	11.943	35.861	27.270	82.8	.253	1500.7	140.8
145	11.924	35.884	27.291	81.0	.258	1500.7	146.0
150	11.915	35.893	27.300	80.2	.262	1500.8	151.0
155	11.896	35.907	27.315	79.0	.266	1500.8	156.0
160	11.886	35.916	27.324	78.2	.270	1500.9	161.0
165	11.847	35.931	27.343	76.5	.273	1500.8	166.0
170	11.790	35.941	27.361	74.9	.277	1500.7	171.2
175	11.732	35.958	27.386	72.7	.281	1500.6	176.2
180	11.586	35.959	27.414	70.1	.285	1500.2	181.2
185	11.477	35.969	27.442	67.5	.288	1499.9	186.2
190	11.424	35.977	27.458	66.1	.291	1499.8	191.2
195	11.352	35.987	27.480	64.2	.295	1499.7	196.4
200	11.270	36.025	27.525	60.1	.298	1499.5	201.4
225	11.235	36.055	27.555	57.8	.313	1499.8	226.6
250	10.624	36.048	27.661	48.2	.326	1498.1	251.8
258	10.384	36.051	27.707	43.9	.330	1497.3	259.4

SIGMA-T

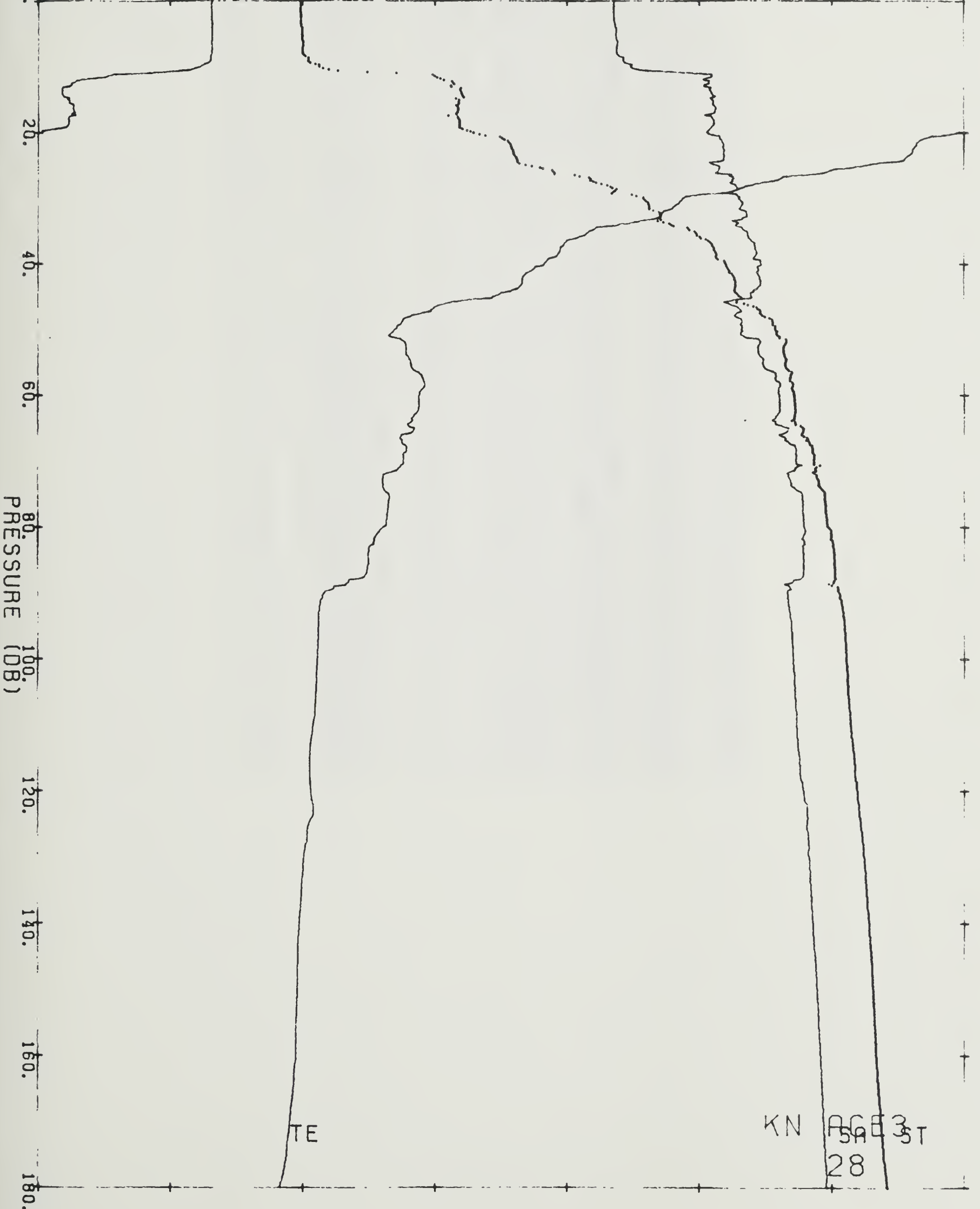
21. 22. 23. 24. 25. 26. 27. 28.

SALINITY (PPT)

30. 31. 32. 33. 34. 35. 36. 37.

TEMPERATURE (DEG C)

8. 10. 12. 14. 16. 18. 20. 22.



TE

KN AGE 3 ST 28

SHIP KN CRUISE ACE-3 STATION 29 POSITION 39 48.60 N 71 43.70 W
 LOCAL TIME 2352 DATE 77/ 8/ 8 WIND = 11knots DIR = 230 DEPTH= 378M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	24.766	34.442	22.993	486.2	0.000	1533.6	0.0
5	24.767	34.464	23.009	484.9	.024	1533.8	5.0
10	24.094	34.769	23.440	443.8	.047	1532.6	10.0
15	22.171	35.070	24.224	369.2	.068	1528.2	15.0
20	18.634	35.148	25.228	273.7	.084	1518.8	20.0
25	17.672	35.173	25.486	249.3	.097	1516.2	25.2
30	17.254	35.225	25.627	236.1	.110	1515.1	30.2
35	17.268	35.306	25.686	230.7	.121	1515.3	35.2
40	15.978	35.384	26.049	196.3	.132	1511.6	40.2
45	14.839	35.389	26.308	171.7	.141	1508.1	45.2
50	13.922	35.451	26.553	148.6	.149	1505.3	50.2
55	13.509	35.461	26.647	139.8	.156	1504.0	55.2
60	12.743	35.568	26.885	117.3	.163	1501.7	60.4
65	12.099	35.309	26.811	124.4	.169	1499.3	65.4
70	11.861	35.366	26.901	115.9	.175	1498.6	70.4
75	12.047	35.490	26.961	110.4	.181	1499.5	75.4
80	12.408	35.668	27.029	104.1	.186	1501.0	80.4
85	12.497	35.689	27.028	104.3	.191	1501.4	85.4
90	12.595	35.736	27.045	102.9	.197	1501.9	90.6
95	12.739	35.867	27.118	96.2	.202	1502.6	95.6
100	12.608	35.832	27.117	96.3	.207	1502.2	100.6
105	12.508	35.838	27.141	94.2	.211	1502.0	105.6
110	12.473	35.849	27.157	92.8	.216	1502.0	110.6
115	12.450	35.873	27.180	90.8	.221	1502.0	115.6
120	12.359	35.877	27.201	88.9	.225	1501.8	120.8
125	12.262	35.882	27.224	86.8	.230	1501.5	125.8
130	12.212	35.900	27.248	84.7	.234	1501.5	130.8
135	11.988	35.881	27.277	82.0	.238	1500.8	135.8
140	11.970	35.906	27.300	80.0	.242	1500.8	140.8
145	11.880	35.906	27.317	78.5	.246	1500.6	146.0
150	11.850	35.931	27.342	76.3	.250	1500.6	151.0
155	11.797	35.934	27.354	75.2	.254	1500.5	156.0
160	11.764	35.939	27.365	74.3	.258	1500.5	161.0
165	11.732	35.954	27.382	72.8	.261	1500.5	166.0
170	11.686	35.951	27.389	72.3	.265	1500.4	171.2
175	11.586	35.964	27.418	69.7	.269	1500.1	176.2
180	11.544	35.965	27.427	68.9	.272	1500.1	181.2
185	11.406	35.971	27.457	66.1	.275	1499.7	186.2
190	11.306	35.964	27.471	64.9	.279	1499.4	191.2
195	11.241	35.980	27.495	62.7	.282	1499.3	196.4
200	11.185	35.987	27.511	61.3	.285	1499.2	201.4
225	10.802	36.007	27.597	53.7	.300	1498.2	226.6
250	10.316	36.016	27.691	45.2	.312	1496.9	251.8
275	9.349	35.978	27.828	32.4	.322	1493.8	277.0
300	8.086	35.974	28.026	13.4	.328	1489.5	302.2
325	7.177	36.006	28.187	-1.8	.329	1486.4	327.4
350	7.022	36.076	28.264	-8.7	.328	1486.3	352.6
375	6.079	36.132	28.437	-25.4	.323	1483.1	378.0
375	6.079	36.132	28.437	-25.4	.323	1483.1	378.0

SIGMA-T

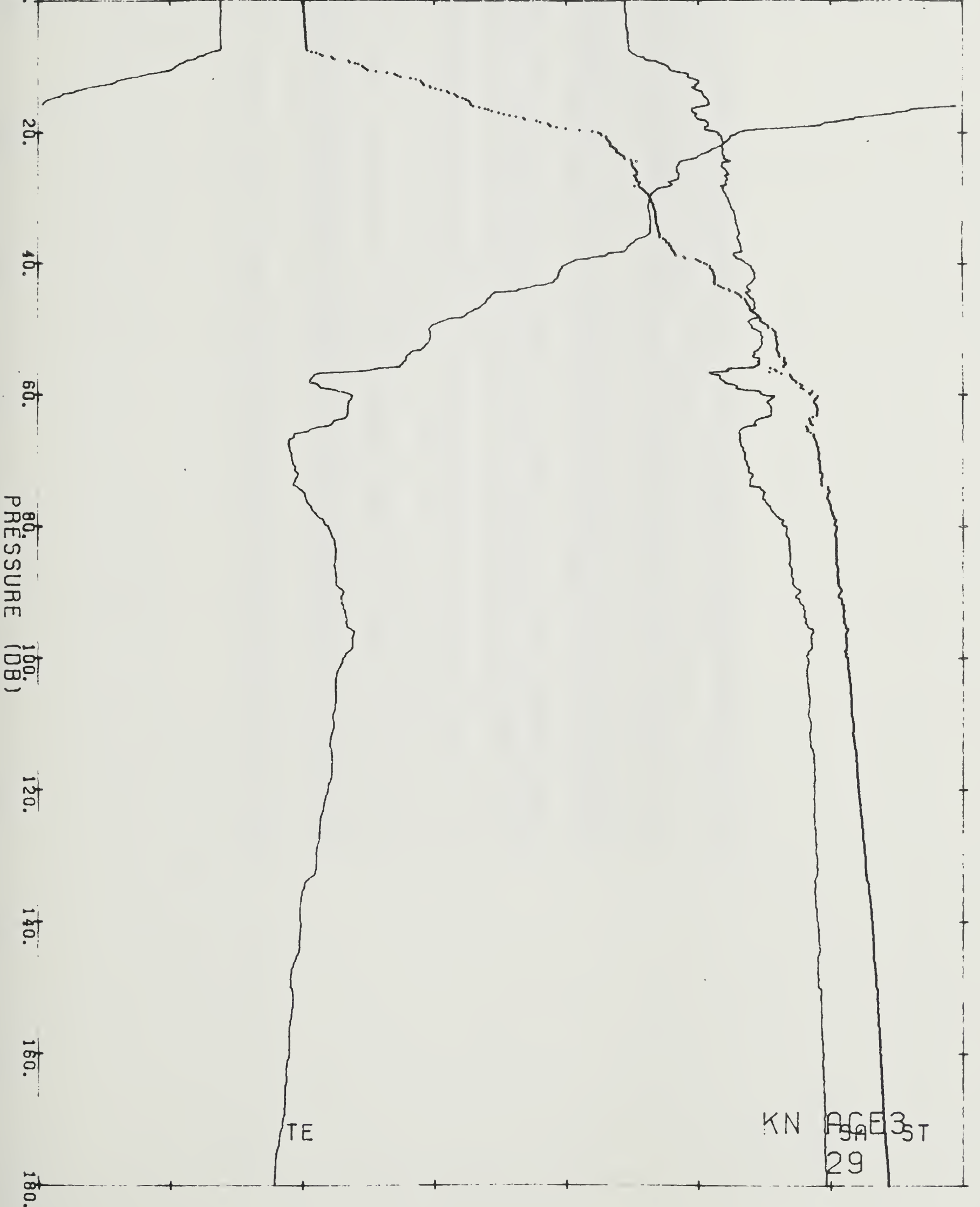
21. 22. 23. 24. 25. 26. 27. 28.

SALINITY (PPT)

30. 31. 32. 33. 34. 35. 36. 37.

TEMPERATURE (DEG C)

8. 10. 12. 14. 16. 18. 20. 22.



SHIP KN`CRUISE ACE-3 STATION 30 POSITION 39 46.40 N 71 41.50 W
 LOCAL TIME 200 DATE 77/ 8/ 9 WIND = 15knots DIR = 240 DEPTH= 583M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	24.843	34.389	22.928	492.3	0.000	1533.8	0.0
5	24.731	34.571	23.100	476.1	.024	1533.8	5.0
10	23.833	34.897	23.615	427.2	.047	1532.1	10.1
15	22.936	34.908	23.884	401.7	.068	1530.0	15.1
20	21.962	34.964	24.202	371.5	.087	1527.6	20.1
25	20.200	35.022	24.727	321.7	.105	1523.1	25.1
30	17.772	35.056	25.372	260.4	.119	1516.4	30.1
35	16.178	35.166	25.835	216.4	.131	1511.8	35.2
40	14.882	35.178	26.136	187.9	.141	1507.9	40.2
45	14.703	35.452	26.386	164.3	.150	1507.7	45.2
50	14.042	35.443	26.522	151.6	.158	1505.7	50.2
55	12.217	35.186	26.692	135.4	.165	1499.3	55.3
60	11.730	35.137	26.747	130.2	.172	1497.7	60.3
65	11.777	35.179	26.772	128.1	.179	1498.0	65.3
70	11.823	35.221	26.795	126.0	.185	1498.3	70.4
75	11.870	35.263	26.819	123.8	.191	1498.6	75.4
80	11.916	35.305	26.843	121.7	.197	1498.9	80.4
85	11.963	35.347	26.866	119.6	.204	1499.2	85.5
90	12.009	35.389	26.890	117.5	.209	1499.5	90.5
95	12.056	35.430	26.913	115.5	.215	1499.8	95.5
100	12.102	35.472	26.937	113.3	.221	1500.1	100.6
105	12.149	35.513	26.960	111.3	.227	1500.3	105.6
110	12.195	35.555	26.983	109.3	.232	1500.6	110.6
115	12.242	35.596	27.006	107.2	.238	1500.9	115.7
120	12.265	35.636	27.033	104.8	.243	1501.1	120.7
125	12.156	35.587	27.016	106.5	.248	1500.8	125.8
130	12.048	35.571	27.024	105.8	.254	1500.5	130.8
135	12.026	35.574	27.031	105.3	.259	1500.5	135.8
140	11.963	35.564	27.035	105.0	.264	1500.3	140.9
145	11.909	35.559	27.042	104.5	.270	1500.2	145.9
150	11.738	35.518	27.042	104.6	.275	1499.7	150.9
155	11.678	35.524	27.058	103.2	.280	1499.6	156.0
160	11.676	35.526	27.060	103.1	.285	1499.6	161.0
165	11.623	35.524	27.069	102.4	.291	1499.5	166.0
170	11.478	35.500	27.077	101.7	.296	1499.1	171.1
175	11.360	35.499	27.099	99.7	.301	1498.7	176.1
180	11.296	35.492	27.105	99.2	.306	1498.6	181.2
185	11.182	35.482	27.118	98.1	.311	1498.3	186.2
190	11.121	35.477	27.126	97.5	.316	1498.1	191.2
195	11.073	35.471	27.130	97.2	.321	1498.0	196.3
200	11.026	35.466	27.134	96.8	.325	1497.9	201.3
225	10.675	35.447	27.183	92.7	.349	1497.1	226.5
250	9.491	35.278	27.256	85.8	.372	1493.0	251.7
275	8.894	35.214	27.303	81.5	.393	1491.1	276.9
300	8.293	35.163	27.358	76.5	.413	1489.2	302.1
325	7.882	35.129	27.394	73.3	.432	1488.0	327.3
350	7.118	35.108	27.487	64.4	.449	1485.4	352.6
375	6.444	35.076	27.555	57.9	.464	1483.1	377.8
400	6.070	35.059	27.591	54.6	.479	1482.0	403.0
425	5.756	35.052	27.625	51.4	.492	1481.2	428.2
450	5.603	35.038	27.633	50.8	.505	1480.9	453.5
475	5.304	35.030	27.663	48.0	.517	1480.1	478.7
500	5.198	35.023	27.671	47.5	.529	1480.1	503.9
562	4.858	35.015	27.704	44.7	.558	1479.7	567.0

SIGMA-T

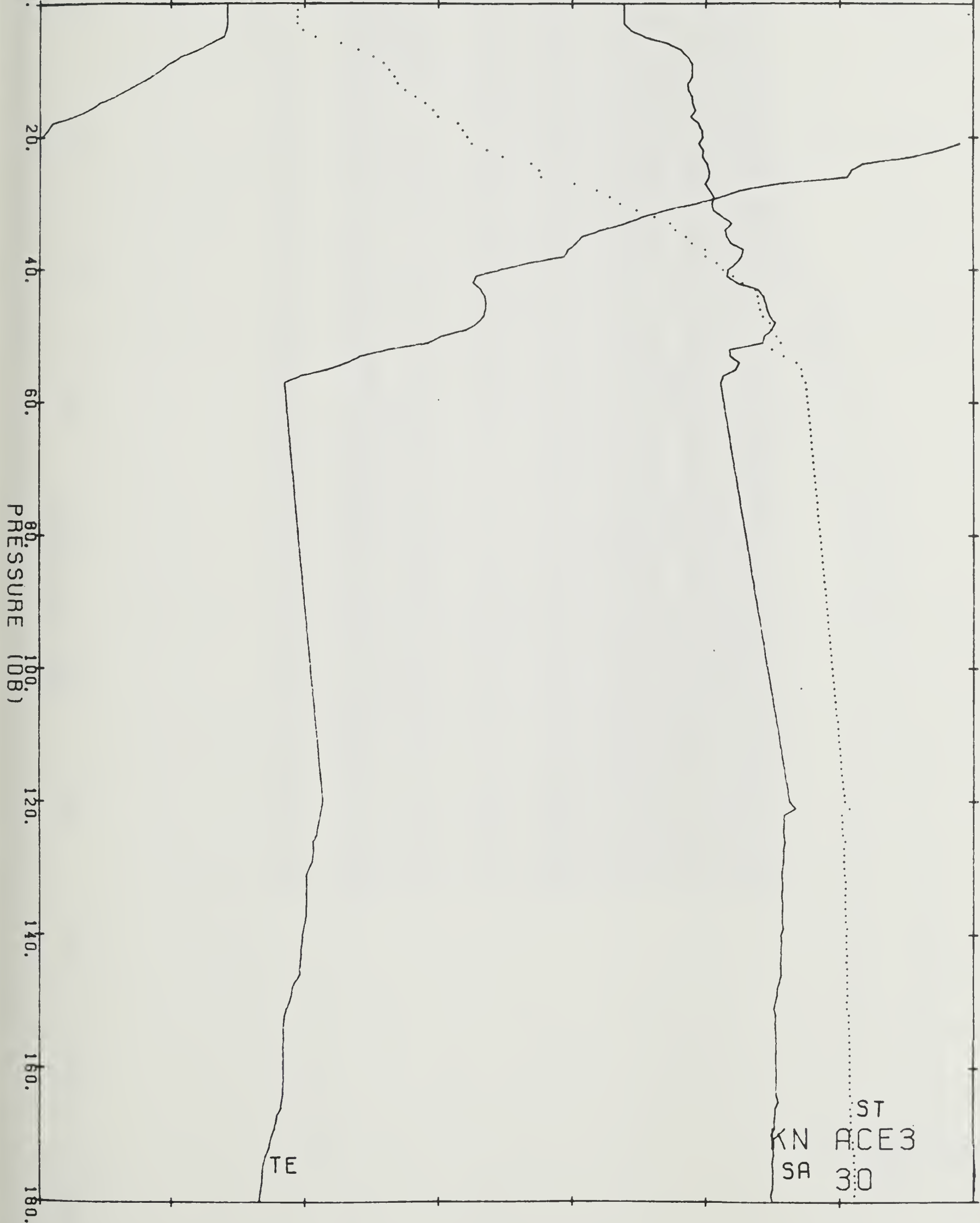
21. 22. 23. 24. 25. 26. 27. 28.

SALINITY (PPT)

30. 31. 32. 33. 34. 35. 36. 37.

TEMPERATURE (DEG C)

9. 10. 12. 14. 16. 18. 20. 22.



ST
KN ACE3
SA 30

TE

SHIP KN CRUISE ACE-3 STATION 31 POSITION 39 44.00 N 71 39.50 W
 LOCAL TIME 404 DATE 77/ 8/ 9 WIND = 13knots DIR = 230 DEPTH= 690M

DTH	TEM	SAL	SGT	AND	DYN	SVL	PRS
0	24.811	34.735	23.200	466.4	0.000	1534.1	0.0
5	24.759	34.747	23.225	464.2	.023	1534.1	5.0
10	23.489	34.466	23.389	448.7	.046	1530.7	10.0
15	21.657	34.592	24.005	390.1	.067	1526.3	15.0
20	20.346	34.871	24.573	336.1	.085	1523.2	20.0
25	17.473	35.133	25.504	247.7	.100	1515.5	25.2
30	16.298	35.298	25.909	209.3	.112	1512.3	30.2
35	14.684	35.267	26.248	177.2	.121	1507.3	35.2
40	14.649	35.324	26.300	172.4	.130	1507.3	40.2
45	14.462	35.515	26.487	154.7	.138	1507.0	45.2
50	14.069	35.538	26.589	145.2	.146	1505.9	50.2
55	13.245	35.522	26.748	130.2	.153	1503.2	55.2
60	12.617	35.420	26.795	125.8	.159	1501.1	60.4
65	12.498	35.490	26.874	118.5	.166	1500.9	65.4
70	12.517	35.627	26.976	108.9	.171	1501.2	70.4
75	12.998	35.758	26.981	108.6	.177	1503.0	75.4
80	13.009	35.808	27.018	105.3	.182	1503.2	80.4
85	12.921	35.804	27.033	104.0	.187	1503.0	85.4
90	12.770	35.807	27.065	101.0	.193	1502.6	90.6
95	12.655	35.821	27.099	98.0	.198	1502.3	95.6
100	12.668	35.856	27.124	95.7	.202	1502.5	100.6
105	12.587	35.857	27.141	94.3	.207	1502.3	105.6
110	12.379	35.902	27.217	87.2	.212	1501.7	110.6
115	12.276	35.835	27.185	90.3	.216	1501.4	115.8
120	12.165	35.845	27.214	87.6	.221	1501.1	120.8
125	12.084	35.861	27.243	85.1	.225	1500.9	125.8
130	12.091	35.890	27.264	83.2	.229	1501.0	130.8
135	11.989	35.894	27.287	81.1	.233	1500.8	135.8
140	11.905	35.901	27.308	79.2	.237	1500.6	140.8
145	11.779	35.902	27.333	77.0	.241	1500.2	146.0
150	11.675	35.899	27.351	75.3	.245	1499.9	151.0
155	11.583	35.907	27.374	73.2	.249	1499.7	156.0
160	11.499	35.906	27.390	71.9	.253	1499.5	161.0
165	11.449	35.918	27.408	70.3	.256	1499.4	166.0
170	11.377	35.923	27.425	68.7	.260	1499.3	171.2
175	11.246	35.928	27.454	66.1	.263	1498.9	176.2
180	11.177	35.931	27.469	64.8	.266	1498.7	181.2
185	11.123	35.944	27.489	63.0	.270	1498.6	186.2
190	11.044	35.944	27.503	61.8	.273	1498.4	191.2
195	10.976	35.956	27.525	59.8	.276	1498.3	196.4
200	10.886	35.977	27.558	56.7	.279	1498.1	201.4
225	10.363	35.962	27.641	49.4	.292	1496.6	226.6
250	9.703	35.941	27.739	40.4	.303	1494.6	251.8
275	8.900	35.929	27.863	28.8	.312	1492.0	277.0
300	8.283	35.957	27.982	17.7	.318	1490.2	302.2
325	7.699	36.007	28.111	5.7	.321	1488.4	327.4
350	7.292	36.074	28.224	-4.8	.321	1487.4	352.6
375	6.838	36.106	28.314	-13.1	.319	1486.0	378.0
400	6.461	36.196	28.437	-24.6	.314	1485.1	403.2
425	6.140	36.270	28.539	-34.0	.307	1484.3	428.4
450	5.870	36.337	28.627	-42.2	.297	1483.7	453.6
475	5.699	36.409	28.706	-49.4	.285	1483.6	479.0
500	5.459	36.477	28.791	-57.2	.272	1483.1	504.2
600	5.001	36.727	29.046	-80.2	.203	1483.2	605.2
649	4.756	36.914	29.223	6.4	.159	1483.3	655.0

SIGMA-T

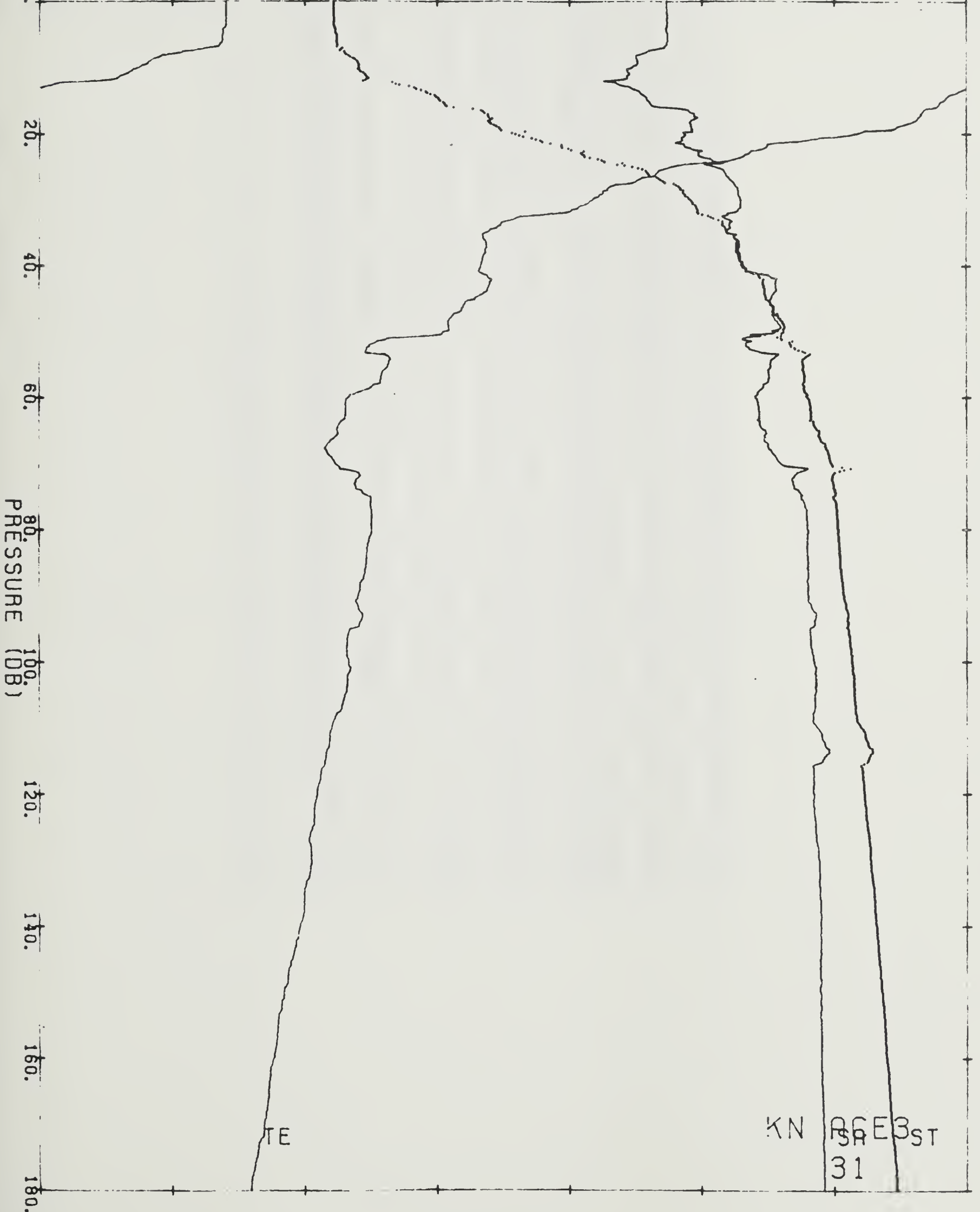
21. 22. 23. 24. 25. 26. 27. 28.

SALINITY (PPT)

30. 31. 32. 33. 34. 35. 36. 37.

TEMPERATURE (DEG C)

8. 10. 12. 14. 16. 18. 20. 22.



SHIP KN CRUISE ACE-3 STATION 32 POSITION 39 39.00 N 71 35.50 W
 LOCAL TIME 650 DATE 77/ 8/ 9 WIND = 9knots DIR = 250 DEPTH=1442M

DTH	TEM	SAL	SGT	AND	DYN	SVL	PRS
0	24.000	34.350	23.151	471.1	0.000	1531.7	0.0
5	23.901	34.343	23.175	469.0	.024	1531.5	5.0
10	22.844	34.521	23.617	427.0	.046	1529.2	10.0
15	21.682	34.572	23.983	392.2	.066	1526.4	15.0
20	19.558	35.061	24.925	302.6	.084	1521.3	20.0
25	16.204	34.982	25.688	230.1	.098	1511.5	25.2
30	15.692	35.155	25.938	206.5	.109	1510.2	30.2
35	14.958	35.103	26.061	194.9	.119	1508.0	35.2
40	13.751	35.074	26.297	172.6	.128	1504.1	40.2
45	12.373	34.858	26.407	162.2	.136	1499.3	45.2
50	11.202	34.705	26.510	152.5	.144	1495.1	50.2
55	10.725	34.720	26.607	143.3	.151	1493.5	55.2
60	11.137	34.973	26.730	131.8	.159	1495.4	60.4
65	11.481	35.129	26.788	126.5	.165	1496.9	65.4
70	11.537	35.200	26.833	122.3	.171	1497.3	70.4
75	11.493	35.268	26.894	116.6	.177	1497.3	75.4
80	11.493	35.288	26.909	115.3	.183	1497.4	80.4
85	11.505	35.342	26.950	111.6	.189	1497.6	85.4
90	11.609	35.413	26.985	108.5	.194	1498.1	90.6
95	11.776	35.514	27.032	104.2	.200	1498.9	95.6
100	11.859	35.610	27.091	98.7	.205	1499.4	100.6
105	11.836	35.670	27.142	94.0	.210	1499.5	105.6
110	11.747	35.708	27.188	89.7	.214	1499.3	110.6
115	11.797	35.754	27.215	87.4	.219	1499.6	115.6
120	11.762	35.766	27.230	86.0	.223	1499.6	120.8
125	11.721	35.788	27.256	83.7	.227	1499.6	125.8
130	11.664	35.812	27.285	81.1	.231	1499.5	130.8
135	11.617	35.827	27.306	79.2	.235	1499.4	135.8
140	11.571	35.847	27.330	77.1	.239	1499.3	140.8
145	11.557	35.874	27.353	75.0	.243	1499.4	146.0
150	11.534	35.894	27.373	73.2	.247	1499.4	151.0
155	11.484	35.901	27.388	71.9	.251	1499.4	156.0
160	11.427	35.901	27.399	71.0	.254	1499.2	161.0
165	11.427	35.927	27.419	69.2	.258	1499.4	166.0
170	11.352	35.928	27.434	67.9	.261	1499.2	171.2
175	11.201	35.919	27.455	66.0	.265	1498.7	176.2
180	11.147	35.930	27.474	64.3	.268	1498.6	181.2
185	11.045	35.930	27.492	62.7	.271	1498.4	186.2
190	10.948	35.882	27.472	64.6	.274	1498.0	191.2
195	10.850	35.928	27.527	59.6	.277	1497.8	196.4
200	10.782	35.935	27.544	58.0	.280	1497.7	201.4
225	10.130	35.924	27.651	48.2	.294	1495.7	226.6
250	9.639	35.923	27.736	40.6	.305	1494.4	251.8
275	8.752	35.909	27.871	28.0	.314	1491.5	277.0
300	8.271	35.948	27.977	18.2	.319	1490.1	302.2
325	7.818	36.000	28.088	7.9	.323	1488.9	327.4
350	7.233	36.067	28.227	-5.1	.323	1487.1	352.6
375	6.935	36.135	28.323	-13.9	.321	1486.5	378.0
400	6.514	36.185	28.421	-23.1	.316	1485.3	403.2
425	6.171	36.274	28.538	-33.9	.309	1484.5	428.4
450	5.921	36.338	28.621	-41.6	.299	1484.0	453.6
475	5.655	36.426	28.726	-51.3	.288	1483.4	479.0
500	5.478	36.507	28.812	-59.2	.274	1483.2	504.2
600	4.894	36.767	29.090	-84.5	.201	1482.9	605.2
700	4.579	37.066	29.365	-109.2	.103	1483.6	706.4
746	4.418	37.205	29.495	-120.9	.049	1483.9	753.2

SIGMA-T

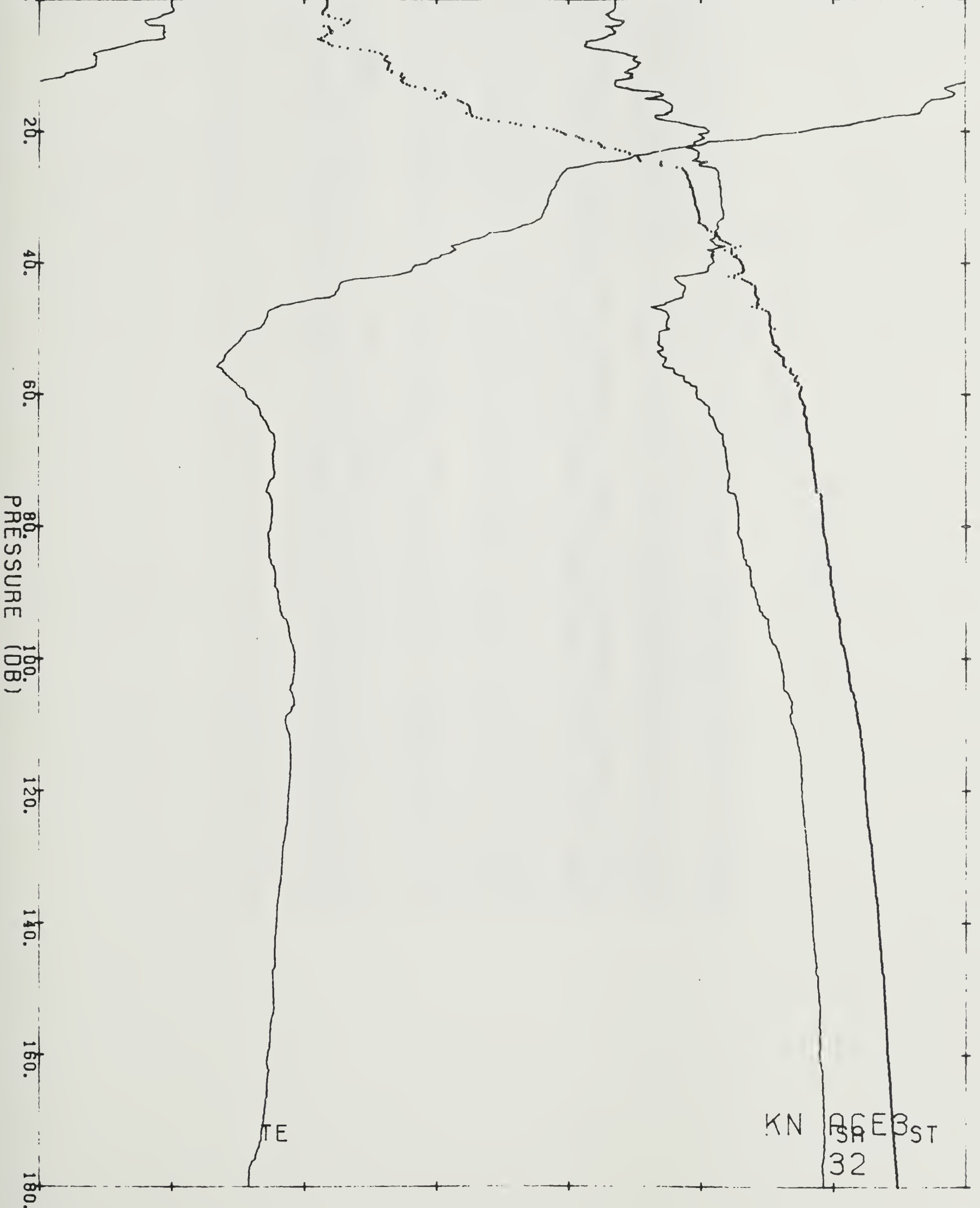
21. 22. 23. 24. 25. 26. 27. 28.

SALINITY (PPT)

30. 31. 32. 33. 34. 35. 36. 37.

TEMPERATURE (DEG C)

8. 10. 12. 14. 16. 18. 20. 22.



SHIP KN CRUISE ACE-3 STATION 33 POSITION 39 33.40 N 71 30.30 W
 LOCAL TIME 1117 DATE 77/ 8/ 9 WIND = 5knots DIR = 340 DEPTH=1870M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	24.787	34.166	22.777	506.8	0.000	1533.4	0.0
5	25.381	34.576	22.907	494.6	.025	1535.3	5.0
10	27.381	36.099	23.425	445.3	.049	1541.6	10.0
15	26.086	36.185	23.903	399.9	.070	1538.9	15.0
20	24.064	36.211	24.541	339.2	.088	1534.3	20.0
25	23.243	36.251	24.814	313.5	.105	1532.4	25.1
30	22.173	36.430	25.258	271.4	.120	1530.0	30.2
35	17.190	35.342	25.732	226.2	.132	1515.1	35.2
40	16.153	35.689	26.243	177.8	.142	1512.5	40.2
45	15.530	35.640	26.348	168.0	.151	1510.6	45.2
50	15.623	35.729	26.396	163.6	.159	1511.1	50.2
55	15.282	35.764	26.499	153.9	.167	1510.1	55.2
60	14.315	35.656	26.628	141.8	.175	1507.0	60.2
65	13.291	35.506	26.727	132.5	.182	1503.5	65.4
70	13.154	35.605	26.832	122.7	.188	1503.3	70.4
75	13.647	35.808	26.887	117.6	.194	1505.3	75.4
80	13.570	35.861	26.944	112.4	.200	1505.1	80.4
85	13.411	35.866	26.981	109.0	.205	1504.7	85.4
90	12.853	35.726	26.986	108.6	.211	1502.8	90.4
95	12.663	35.749	27.042	103.3	.216	1502.2	95.6
100	12.830	35.800	27.048	102.9	.221	1502.9	100.6
105	12.574	35.800	27.099	98.2	.226	1502.2	105.6
110	12.470	35.794	27.115	96.8	.231	1501.9	110.6
115	12.451	35.826	27.143	94.3	.236	1501.9	115.6
120	11.992	35.764	27.185	90.4	.241	1500.4	120.8
125	11.946	35.786	27.211	88.0	.245	1500.3	125.8
130	12.001	35.835	27.238	85.6	.250	1500.7	130.8
135	11.933	35.837	27.253	84.3	.254	1500.5	135.8
140	11.963	35.876	27.277	82.1	.258	1500.7	140.8
145	11.911	35.891	27.299	80.2	.262	1500.7	146.0
150	11.866	35.899	27.314	78.9	.266	1500.6	151.0
155	11.826	35.904	27.326	77.9	.270	1500.6	156.0
160	11.731	35.920	27.356	75.1	.274	1500.3	161.0
165	11.731	35.939	27.371	73.8	.278	1500.4	166.0
170	11.680	35.950	27.389	72.2	.281	1500.3	171.0
175	11.559	35.953	27.415	69.9	.285	1500.0	176.2
180	11.454	35.952	27.433	68.2	.289	1499.7	181.2
185	11.357	35.962	27.459	65.9	.292	1499.5	186.2
190	11.225	35.957	27.480	64.0	.295	1499.1	191.2
195	11.085	35.955	27.505	61.8	.298	1498.7	196.2
200	11.024	35.968	27.526	59.9	.301	1498.6	201.4
225	10.468	35.963	27.623	51.1	.315	1497.0	226.6
250	10.032	35.972	27.707	43.6	.327	1495.9	251.8
275	9.244	35.953	27.825	32.6	.337	1493.4	277.0
300	8.685	35.981	27.938	22.1	.344	1491.7	302.2
325	8.262	36.025	28.039	12.8	.348	1490.6	327.4
350	7.936	36.086	28.137	3.8	.350	1489.8	352.6
375	7.322	36.135	28.267	-8.4	.350	1488.0	377.8
400	6.986	36.202	28.368	-17.7	.347	1487.2	403.1
425	6.575	36.263	28.474	-27.6	.341	1486.0	428.4
450	6.246	36.329	28.571	-36.6	.333	1485.2	453.6
475	6.049	36.405	28.657	-44.5	.322	1485.0	478.8
500	5.814	36.488	28.754	-53.4	.310	1484.6	504.2
600	5.229	36.788	29.066	-81.8	.242	1484.2	605.2
700	4.827	37.088	29.353	-107.7	.146	1484.7	706.3
800	4.649	37.350	29.583	-128.0	.027	1486.0	807.6
804	4.643	37.363	29.594	-128.9	.022	1486.0	811.3

SIGMA-T

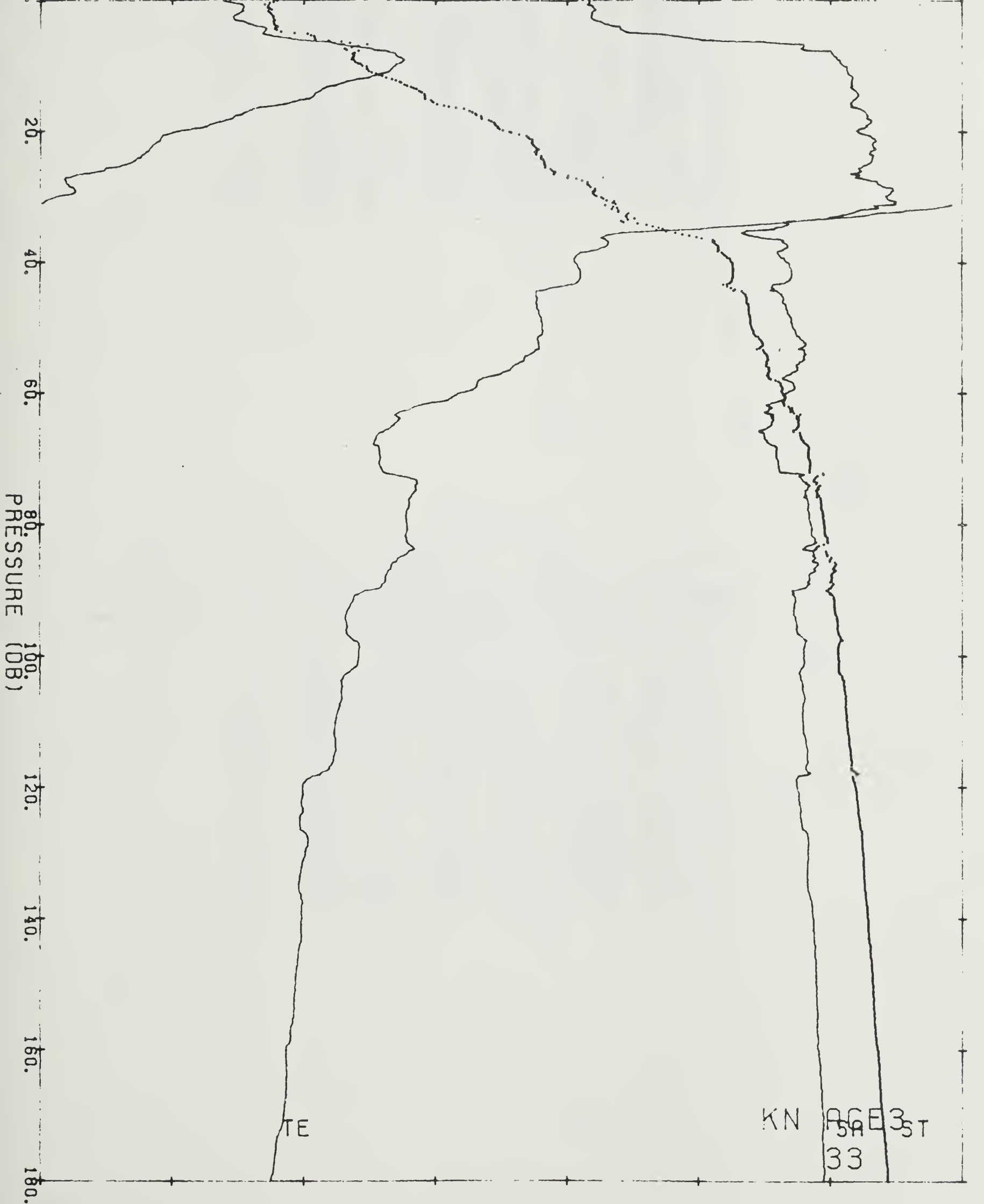
21. 22. 23. 24. 25. 26. 27. 28.

SALINITY (PPT)

30. 31. 32. 33. 34. 35. 36. 37.

TEMPERATURE (DEG C)

8. 10. 12. 14. 16. 18. 20. 22.

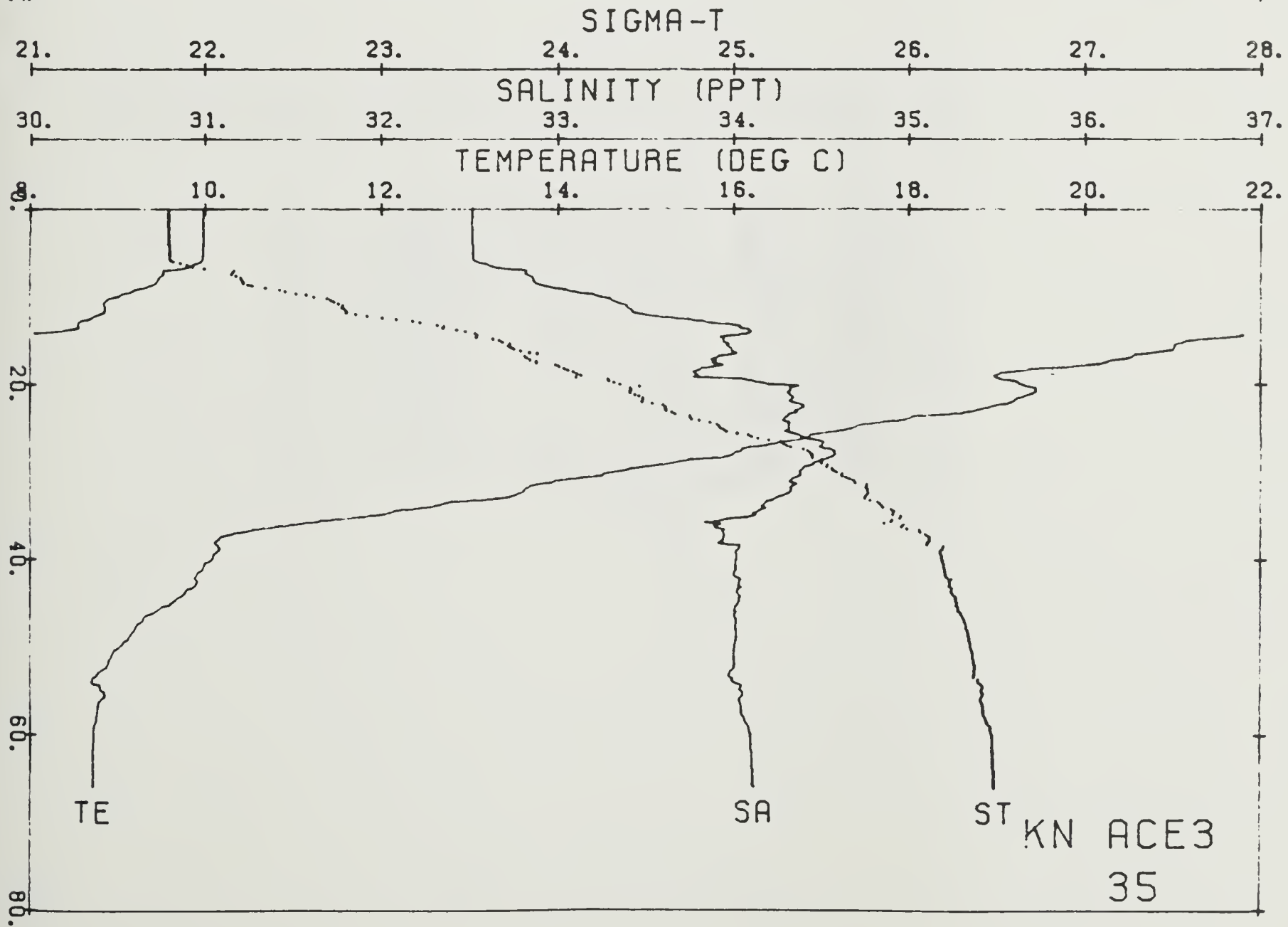
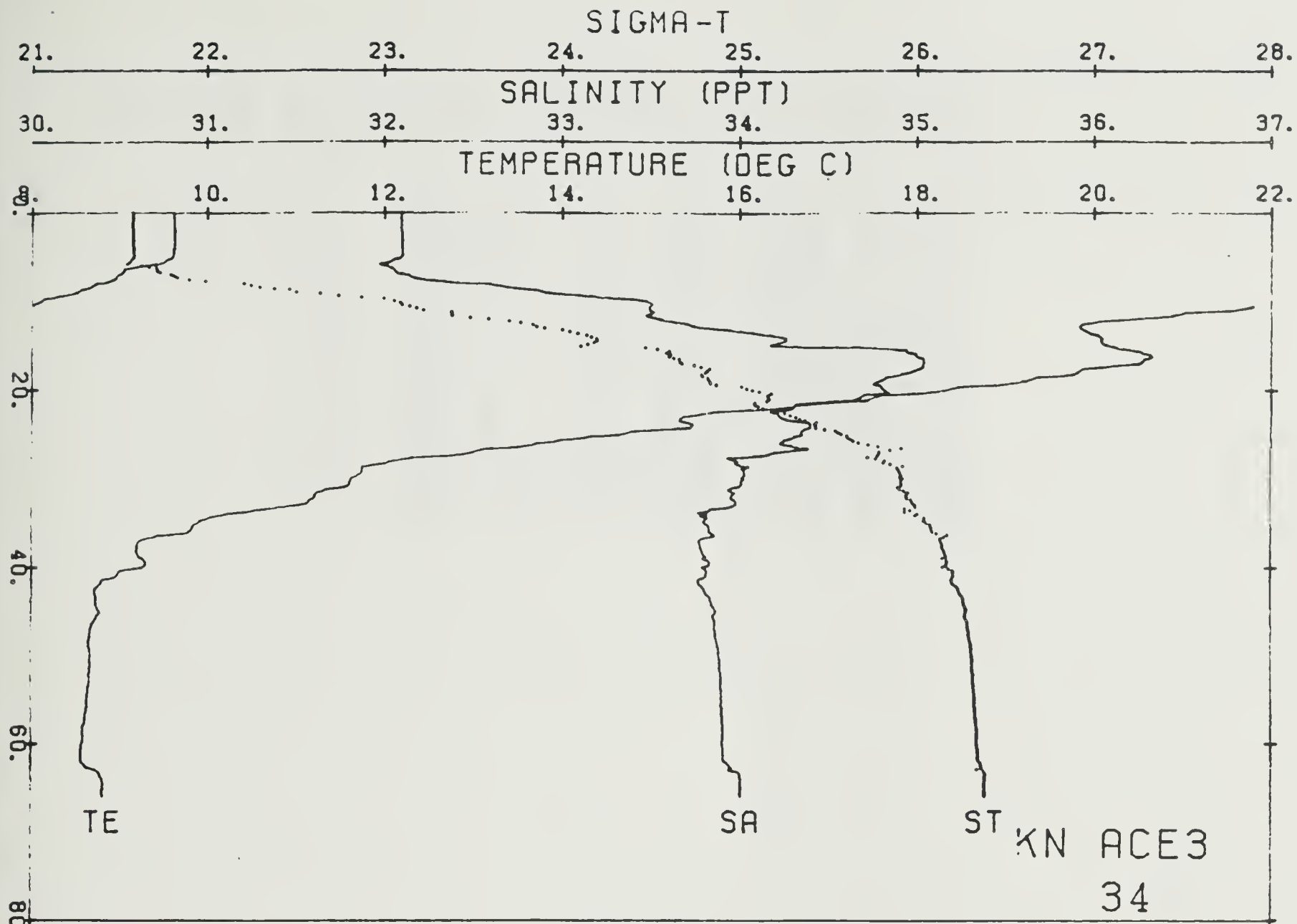


SHIP KN CRUISE ACE-3 STATION 34 POSITION 40 9.60 N 72 1.20 W
 LOCAL TIME 810 DATE 77/ 8/10 WIND = 14knots DIR = 160 DEPTH= 66M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	23.619	32.098	21.559	623.4	0.000	1528.2	0.0
5	23.606	32.097	21.561	623.3	.031	1528.3	5.0
10	22.099	33.480	23.037	482.3	.059	1526.1	10.0
15	20.180	34.169	24.082	382.8	.080	1521.9	15.0
20	18.298	34.813	25.056	290.1	.097	1517.5	20.0
25	14.624	34.352	25.555	242.7	.111	1505.8	25.0
30	11.615	34.007	25.891	210.7	.122	1495.4	30.2
35	9.845	33.822	26.059	194.8	.133	1488.9	35.2
40	9.118	33.806	26.165	184.8	.142	1486.3	40.2
45	8.782	33.863	26.263	175.6	.151	1485.2	45.2
50	8.668	33.887	26.299	172.2	.160	1484.8	50.2
55	8.636	33.902	26.315	170.7	.168	1484.8	55.2
60	8.577	33.906	26.328	169.6	.177	1484.7	60.2
65	8.816	34.008	26.371	165.7	.185	1485.8	65.4
66	8.819	34.011	26.373	165.5	.186	1485.8	66.0

SHIP KN CRUISE ACE-3 STATION 35 POSITION 40 9.50 N 72 .70 W
 LOCAL TIME 1253 DATE 77/ 8/10 WIND = 15knots DIR = 160 DEPTH= 66M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	23.982	32.516	21.769	603.2	0.000	1529.6	0.0
5	23.976	32.520	21.773	603.0	.030	1529.7	5.0
10	22.999	33.231	22.595	524.6	.058	1528.1	10.0
15	21.152	33.939	23.647	424.3	.082	1524.2	15.0
20	19.287	34.194	24.333	359.0	.102	1519.5	20.0
25	17.348	34.318	24.909	304.2	.118	1514.2	25.0
30	14.510	34.383	25.603	238.2	.132	1505.6	30.2
35	11.688	34.077	25.932	207.0	.143	1495.8	35.2
40	10.052	34.013	26.173	184.1	.153	1490.0	40.2
45	9.594	34.021	26.256	176.3	.162	1488.4	45.2
50	8.996	34.008	26.342	168.1	.171	1486.2	50.2
55	8.848	34.059	26.405	162.2	.179	1485.8	55.2
60	8.723	34.102	26.459	157.2	.187	1485.5	60.2
65	8.720	34.114	26.469	156.4	.195	1485.6	65.4
66	8.720	34.119	26.473	156.0	.196	1485.6	66.0



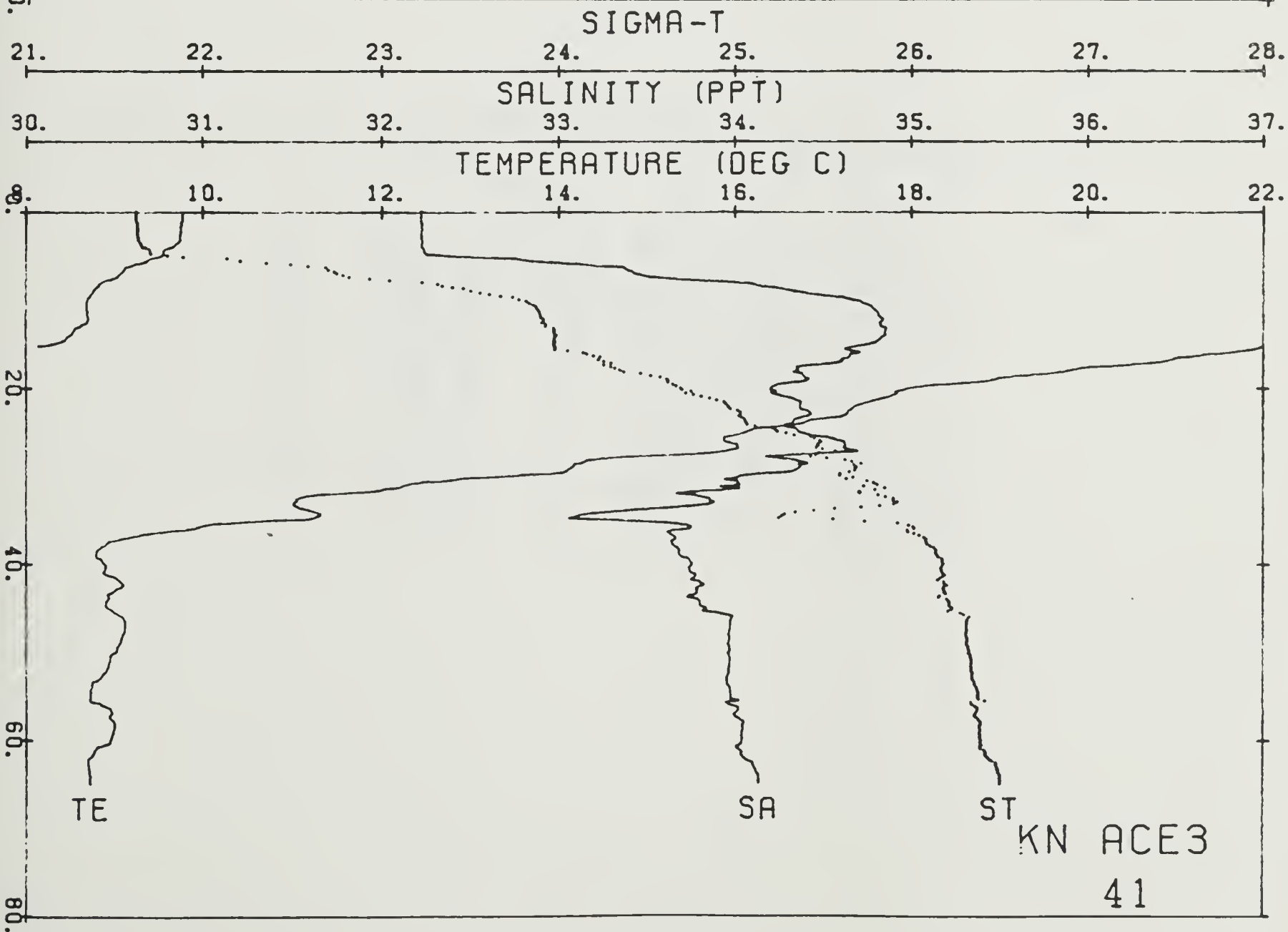
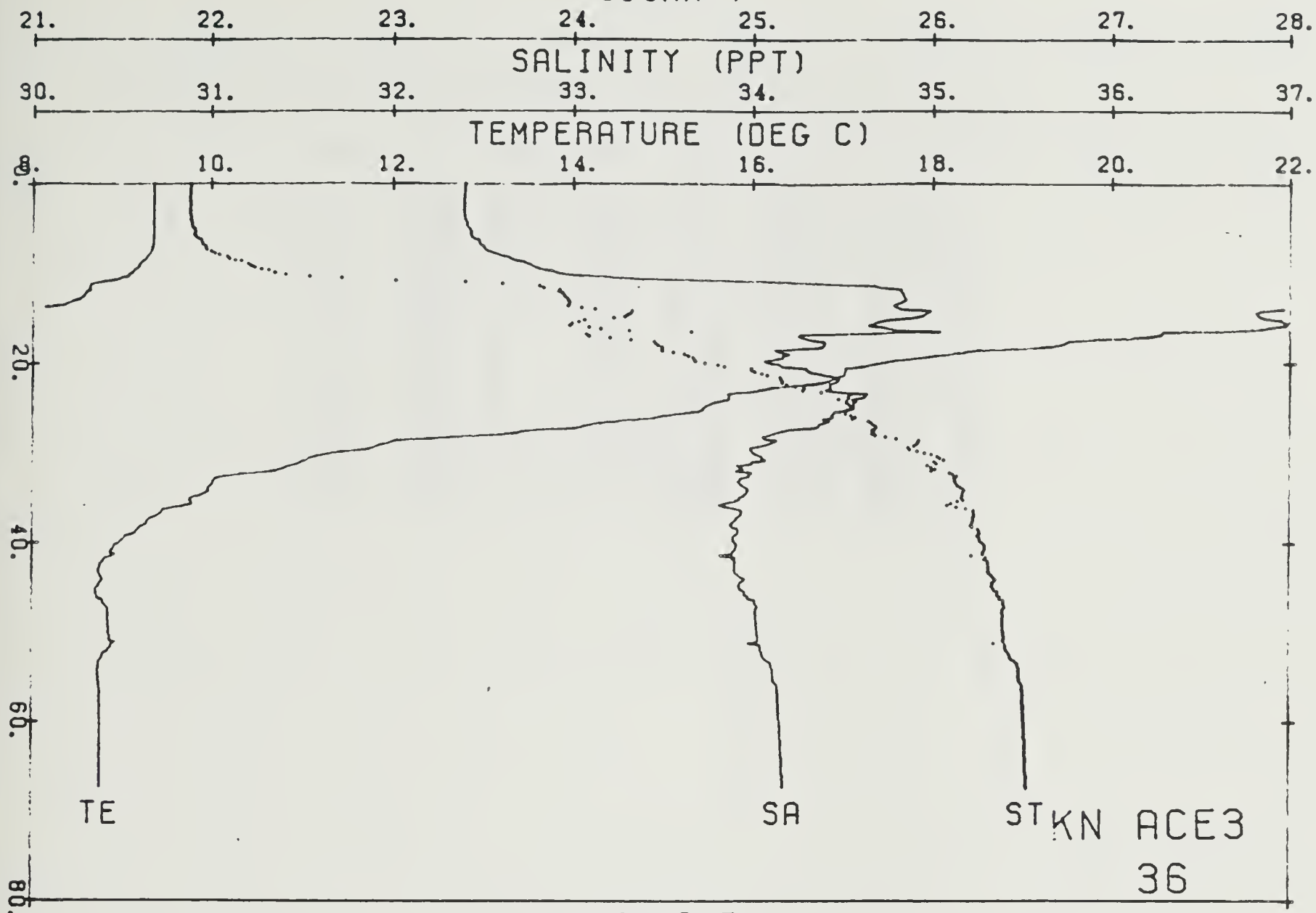
SHIP KN CRUISE ACE-3 STATION 36 POSITION 40 9.29 N 72 .10 W
 LOCAL TIME 1913 DATE 77/ 8/10 WIND = 12knots DIR = 205 DEPTH= 68M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	23.355	32.398	21.861	594.4	0.000	1527.9	0.0
5	23.355	32.416	21.875	593.3	.030	1528.0	5.0
10	23.110	32.918	22.326	550.3	.058	1528.0	10.0
15	21.721	34.881	24.207	370.9	.081	1526.8	15.0
20	17.424	34.091	24.716	322.4	.099	1514.0	20.0
25	15.446	34.560	25.535	244.6	.113	1508.7	25.0
30	11.237	34.027	25.975	202.7	.124	1494.1	30.2
35	9.757	33.923	26.153	185.9	.134	1488.7	35.2
40	8.955	33.909	26.271	174.7	.143	1485.8	40.2
45	8.712	33.931	26.327	169.5	.152	1485.0	45.2
50	8.862	34.028	26.379	164.6	.160	1485.7	50.2
55	8.747	34.118	26.468	156.3	.168	1485.5	55.2
60	8.764	34.155	26.494	153.9	.176	1485.7	60.2
65	8.764	34.166	26.503	153.1	.184	1485.8	65.4
67	8.764	34.172	26.507	152.8	.187	1485.8	67.4

SHIP KN CRUISE ACE-3 STATION 41 POSITION 40 9.00 N 72 0.00 W
 LOCAL TIME 1216 DATE 77/ 8/11 WIND = 8knots DIR = 250 DEPTH= 65M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	23.780	32.222	21.606	618.9	0.000	1528.8	0.0
5	23.534	32.362	21.783	602.1	.031	1528.4	5.0
10	22.700	34.656	23.760	413.3	.056	1529.0	10.0
15	22.312	34.764	23.953	395.1	.076	1528.2	15.0
20	17.953	34.205	24.676	326.3	.094	1515.7	20.0
25	16.137	34.362	25.226	274.0	.109	1510.6	25.0
30	12.894	34.016	25.652	233.5	.122	1499.8	30.2
35	10.398	33.506	25.718	227.2	.134	1490.5	35.2
40	8.915	33.754	26.157	185.5	.144	1485.4	40.2
45	8.987	33.836	26.209	180.6	.153	1485.9	45.2
50	8.981	33.957	26.304	171.7	.162	1486.1	50.2
55	8.731	33.978	26.361	166.4	.171	1485.3	55.2
60	8.953	34.037	26.372	165.5	.179	1486.3	60.2
65	8.729	34.134	26.483	155.0	.187	1485.6	65.0

SIGMH-1

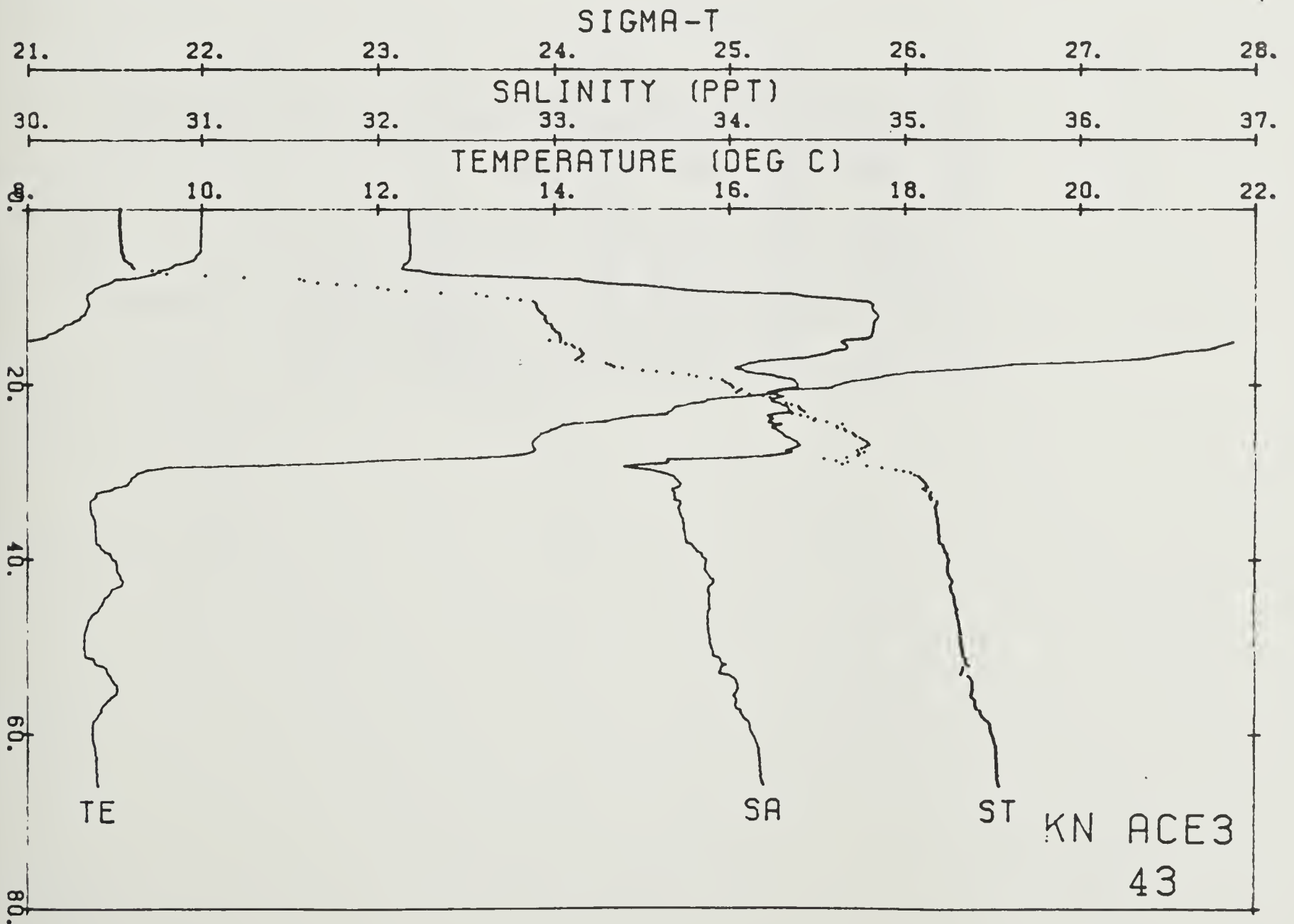
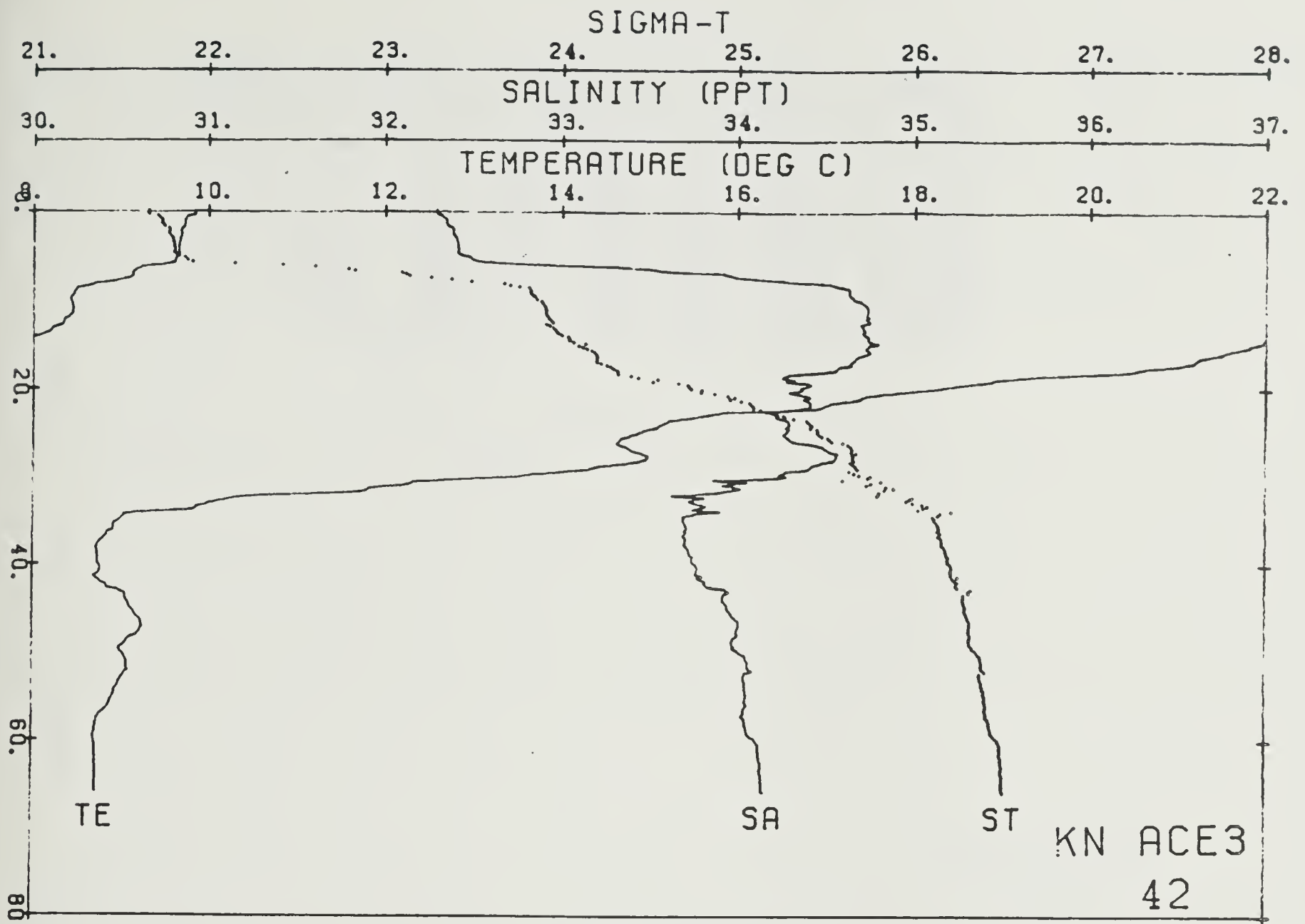


SHIP KN CRUISE ACE-3 STATION 42 POSITION 40 9.10 N 72 .10 W
 LOCAL TIME 1607 DATE 77/ 8/11 WIND = knots DIR = DEPTH= 66M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	23.851	32.289	21.636	616.0	0.000	1529.0	0.0
5	23.657	32.423	21.793	601.1	.030	1528.8	5.0
10	22.430	34.657	23.838	405.9	.056	1528.3	10.0
15	21.818	34.796	24.115	379.6	.075	1527.0	15.0
20	18.242	34.352	24.717	322.3	.093	1516.7	20.0
25	14.869	34.270	25.438	253.8	.107	1506.5	25.0
30	13.082	34.152	25.720	227.1	.120	1500.6	30.2
35	8.966	33.698	26.104	190.4	.130	1485.5	35.2
40	8.773	33.773	26.194	182.0	.139	1484.9	40.2
45	9.142	33.949	26.273	174.6	.148	1486.6	45.2
50	9.028	34.029	26.353	167.1	.157	1486.4	50.2
55	8.928	34.052	26.388	163.9	.165	1486.1	55.2
60	8.724	34.119	26.472	156.0	.173	1485.5	60.4
65	8.736	34.142	26.488	154.5	.181	1485.7	65.4
66	8.739	34.151	26.495	153.9	.182	1485.7	66.0

SHIP KN CRUISE ACE-3 STATION 43 POSITION 40 9.10 N 72 .10 W
 LOCAL TIME 2033 DATE 77/ 8/11 WIND = 8knots DIR = 220 DEPTH= 66M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	23.994	32.175	21.508	628.3	0.000	1529.2	0.0
5	23.969	32.183	21.521	627.2	.031	1529.3	5.0
10	22.687	34.437	23.598	428.8	.058	1528.7	10.0
15	22.018	34.653	23.951	395.3	.078	1527.3	15.0
20	17.270	34.393	24.985	296.8	.096	1513.9	20.0
25	14.023	34.243	25.598	238.5	.109	1503.7	25.0
30	9.254	33.641	26.014	198.9	.120	1486.4	30.2
35	8.755	33.732	26.164	184.7	.130	1484.7	35.2
40	9.018	33.878	26.237	177.9	.139	1486.0	40.2
45	8.855	33.890	26.272	174.7	.148	1485.5	45.2
50	8.643	33.901	26.314	170.7	.157	1484.8	50.2
55	9.032	34.049	26.368	165.7	.165	1486.5	55.2
60	8.748	34.146	26.490	154.3	.173	1485.6	60.4
65	8.798	34.190	26.516	151.9	.181	1486.0	65.4
66	8.808	34.201	26.523	151.2	.182	1486.0	66.0

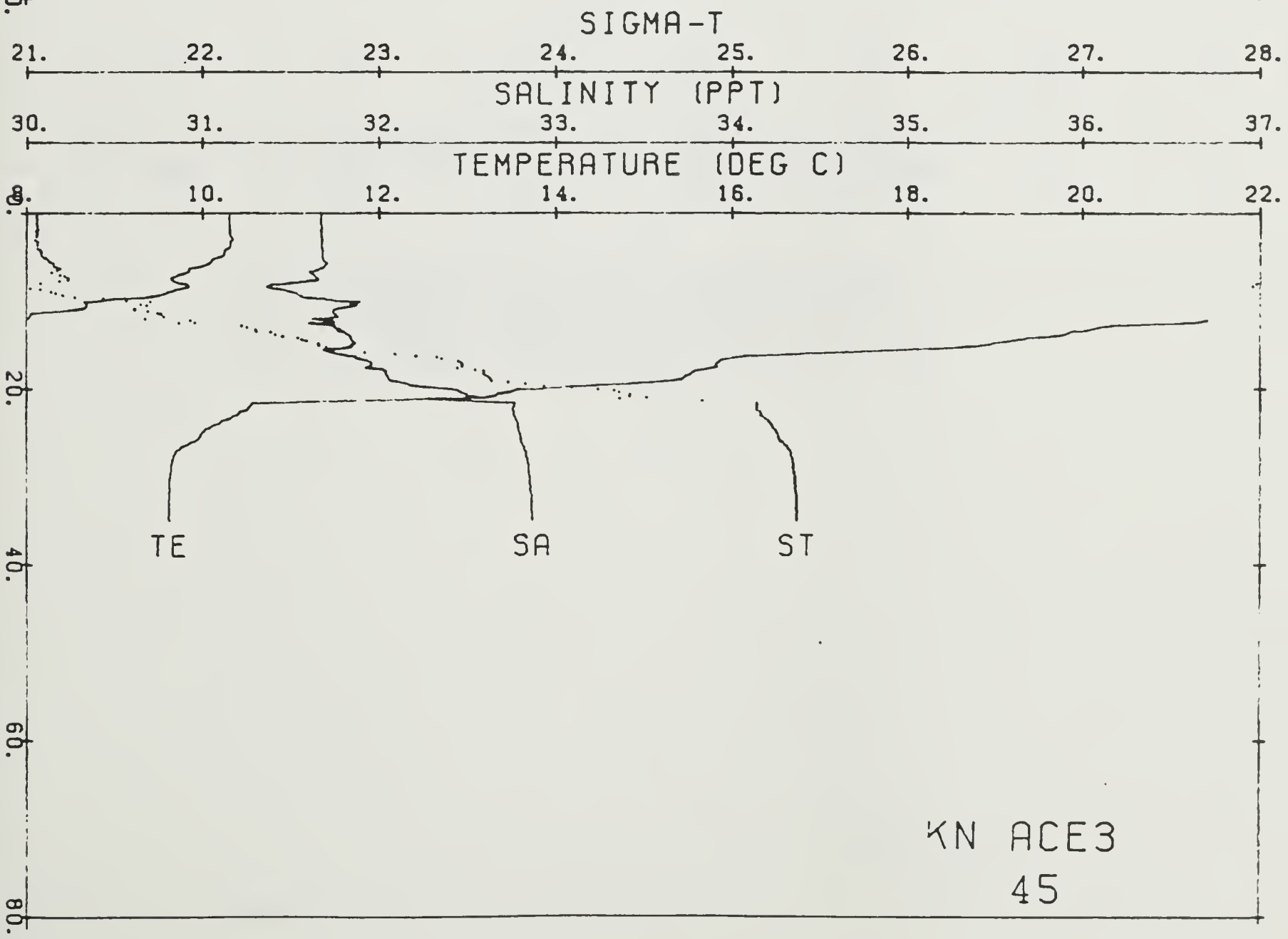
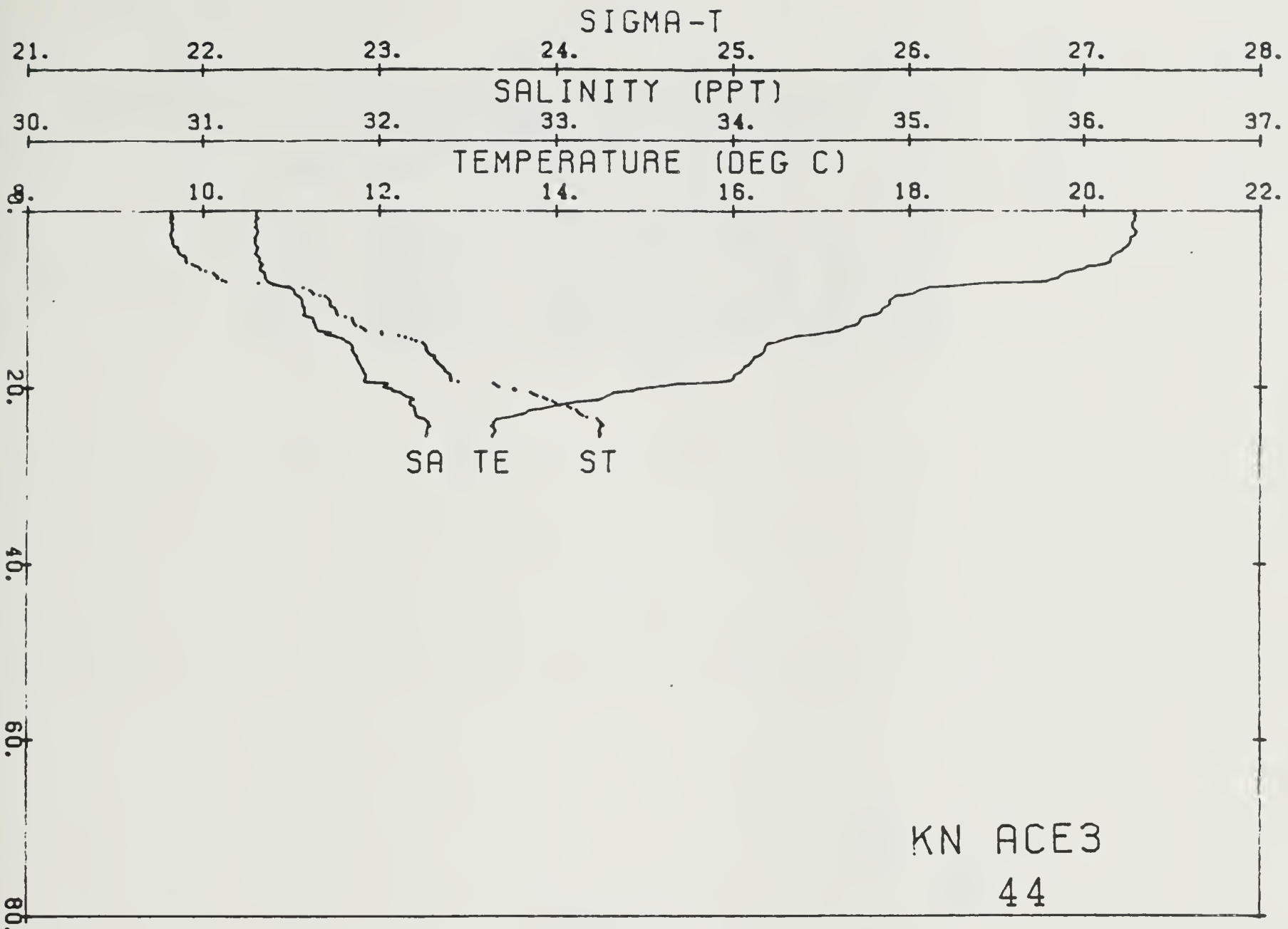


SHIP KN CRUISE ACE-3 STATION 44 POSITION 40 46.60 N 72 31.10 W
LOCAL TIME 1315 DATE 77/ 8/12 WIND = 13knots DIR = 220 DEPTH= 27M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	20.583	31.304	21.795	600.8	0.000	1519.4	0.0
5	20.336	31.305	21.860	594.7	.030	1518.8	5.0
10	17.799	31.557	22.686	515.8	.058	1512.0	10.0
15	16.395	31.833	23.225	464.4	.082	1508.1	15.0
20	15.091	32.019	23.656	423.4	.104	1504.4	20.0
25	13.313	32.271	24.218	369.8	.124	1498.9	25.0
26	13.280	32.266	24.221	369.6	.126	1498.8	25.6

SHIP KN CRUISE ACE-3 STATION 45 POSITION 39 41.90 N 73 34.40 W
LOCAL TIME 1149 DATE 77/ 8/14 WIND = 15knots DIR = 220 DEPTH= 35M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	24.299	31.667	21.034	673.7	0.000	1529.4	0.0
5	24.186	31.678	21.076	669.9	.034	1529.2	5.0
10	22.831	31.786	21.548	624.8	.066	1526.1	10.0
15	18.878	31.840	22.639	520.4	.095	1515.5	15.0
20	13.796	32.404	24.224	369.1	.117	1500.6	20.0
25	9.996	32.805	25.239	272.5	.133	1488.0	25.0
30	9.629	32.868	25.349	262.1	.146	1486.8	30.0
35	9.620	32.886	25.364	260.8	.159	1486.9	35.0

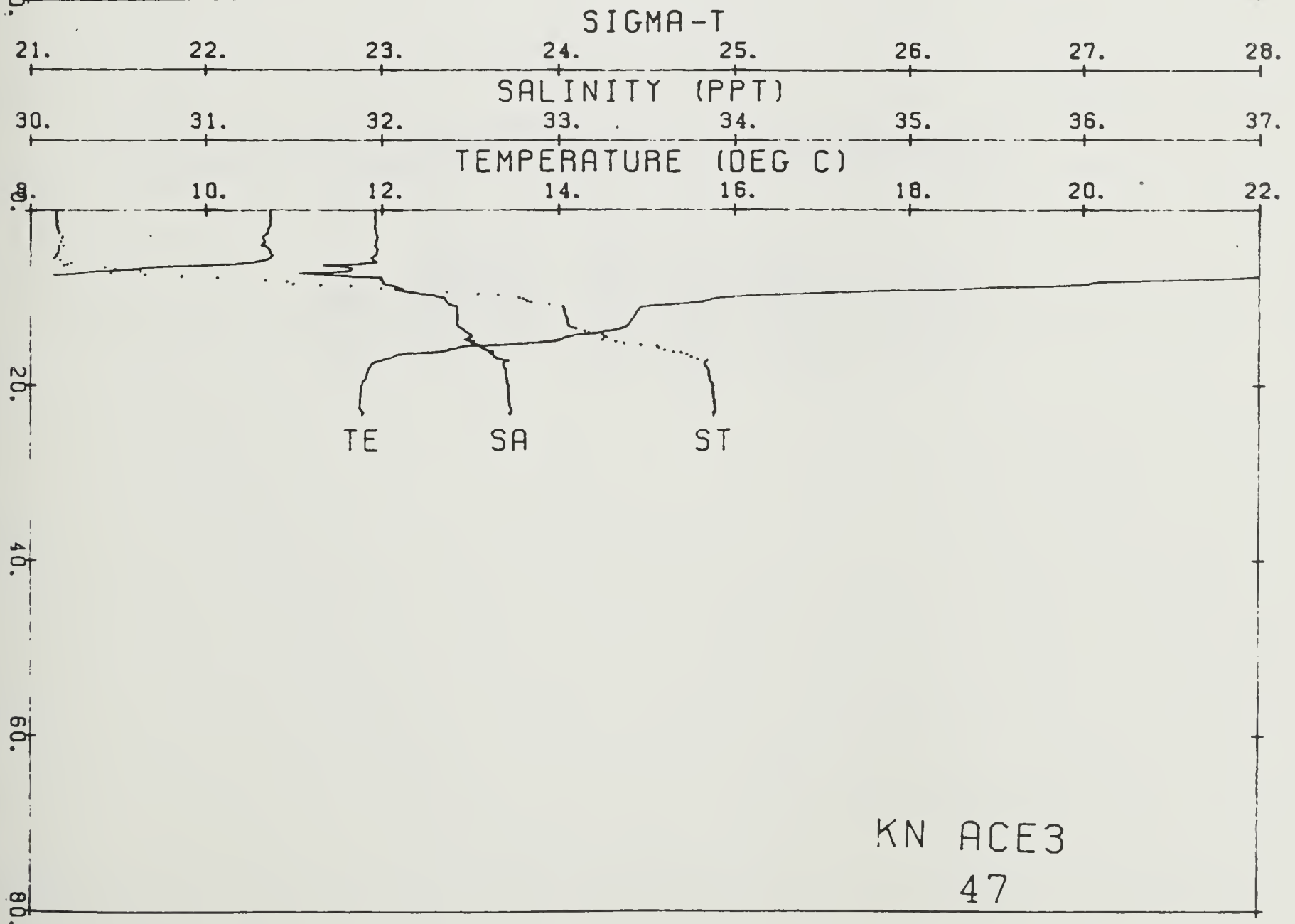
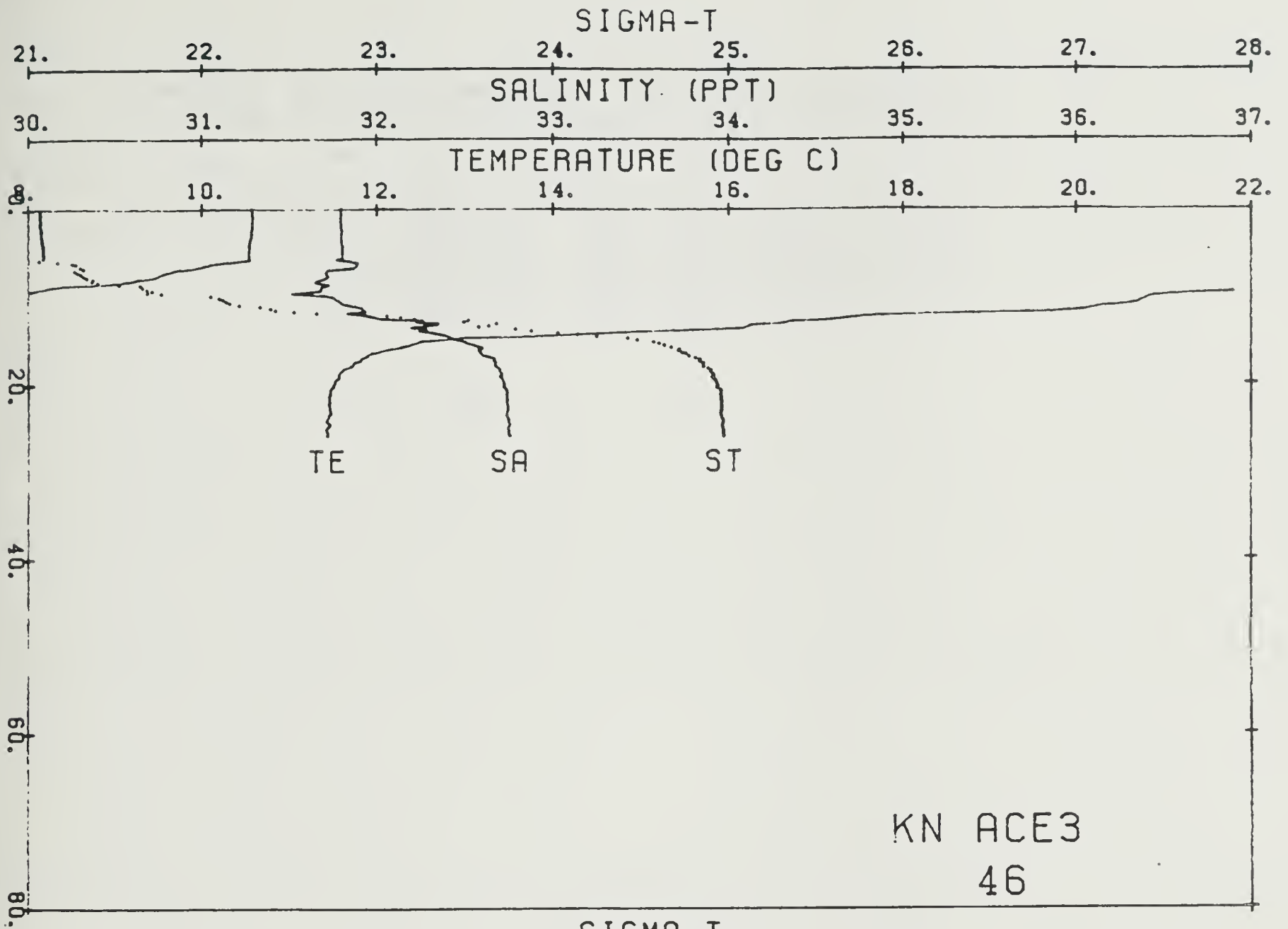


SHIP KN CRUISE ACE-3 STATION 46 POSITION 39 42.90 N 73 40.90 W
LOCAL TIME 1329 DATE 77/ 8/14 WIND = 20knots DIR = 210 DEPTH= 27M

DTH	TEM	SAL	SGT	AND	DYN	SVL	PRS
0	24.569	31.795	21.051	672.1	0.000	1530.2	0.0
5	24.538	31.802	21.066	670.8	.034	1530.2	5.0
10	20.894	31.717	22.027	578.9	.065	1520.9	10.0
15	12.794	32.446	24.456	346.9	.088	1497.2	15.0
20	11.514	32.726	24.914	303.4	.104	1493.2	20.0
25	11.435	32.748	24.945	300.5	.119	1493.1	25.0
26	11.435	32.757	24.952	299.9	.122	1493.1	26.0

SHIP KN CRUISE ACE-3 STATION 47 POSITION 39 45.20 N 73 50.90 W
LOCAL TIME 1448 DATE 77/ 8/14 WIND = 21knots DIR = 200 DEPTH= 24M

DTH	TEM	SAL	SGT	AND	DYN	SVL	PRS
0	24.728	31.962	21.130	664.5	0.000	1530.8	0.0
5	24.748	31.974	21.133	664.4	.033	1530.9	5.0
10	15.890	32.265	23.670	421.8	.060	1507.0	10.0
15	13.869	32.537	24.312	360.7	.080	1500.9	15.0
20	11.768	32.729	24.869	307.6	.097	1494.1	20.0
23	11.777	32.737	24.874	307.3	.107	1494.2	23.4

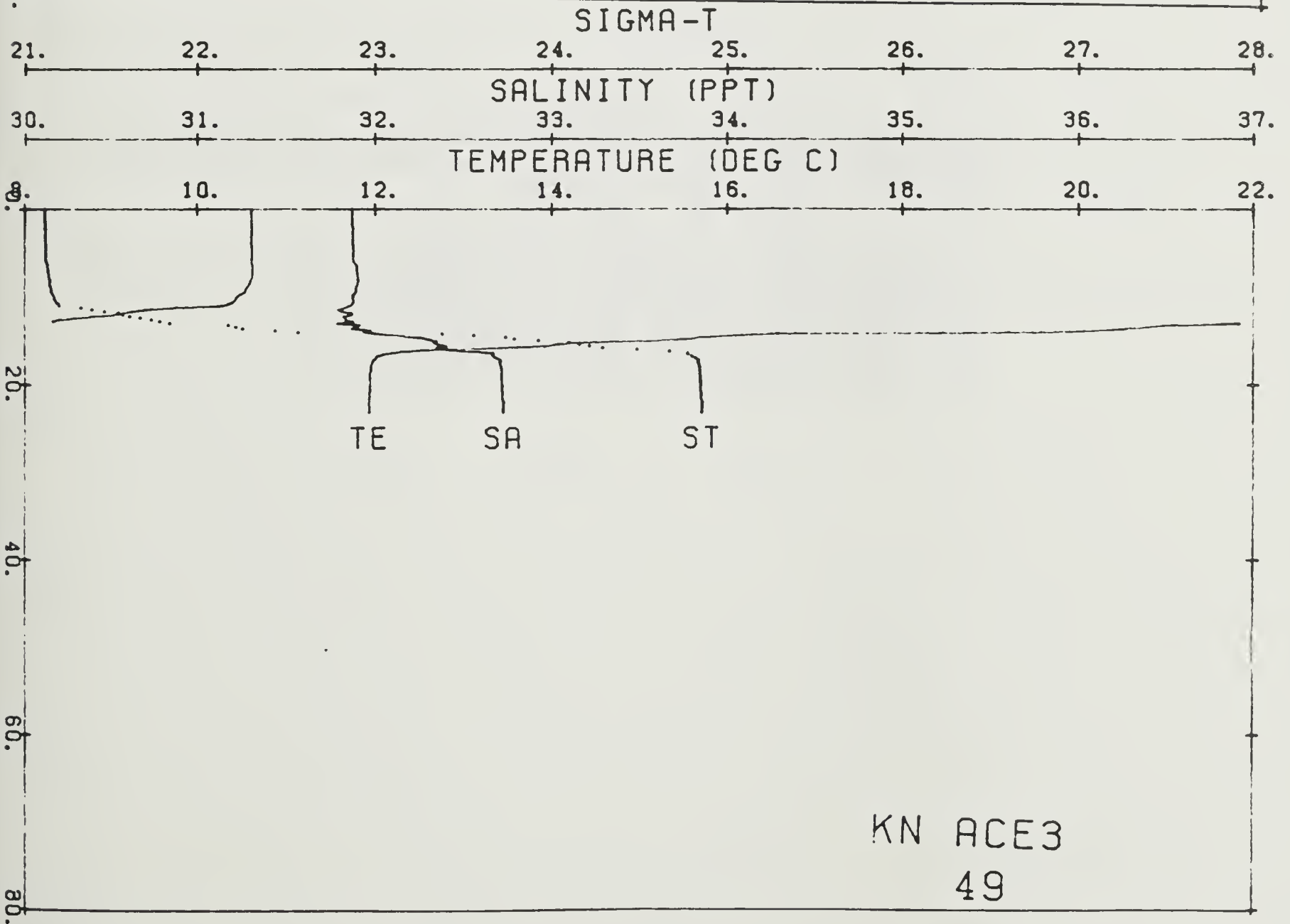
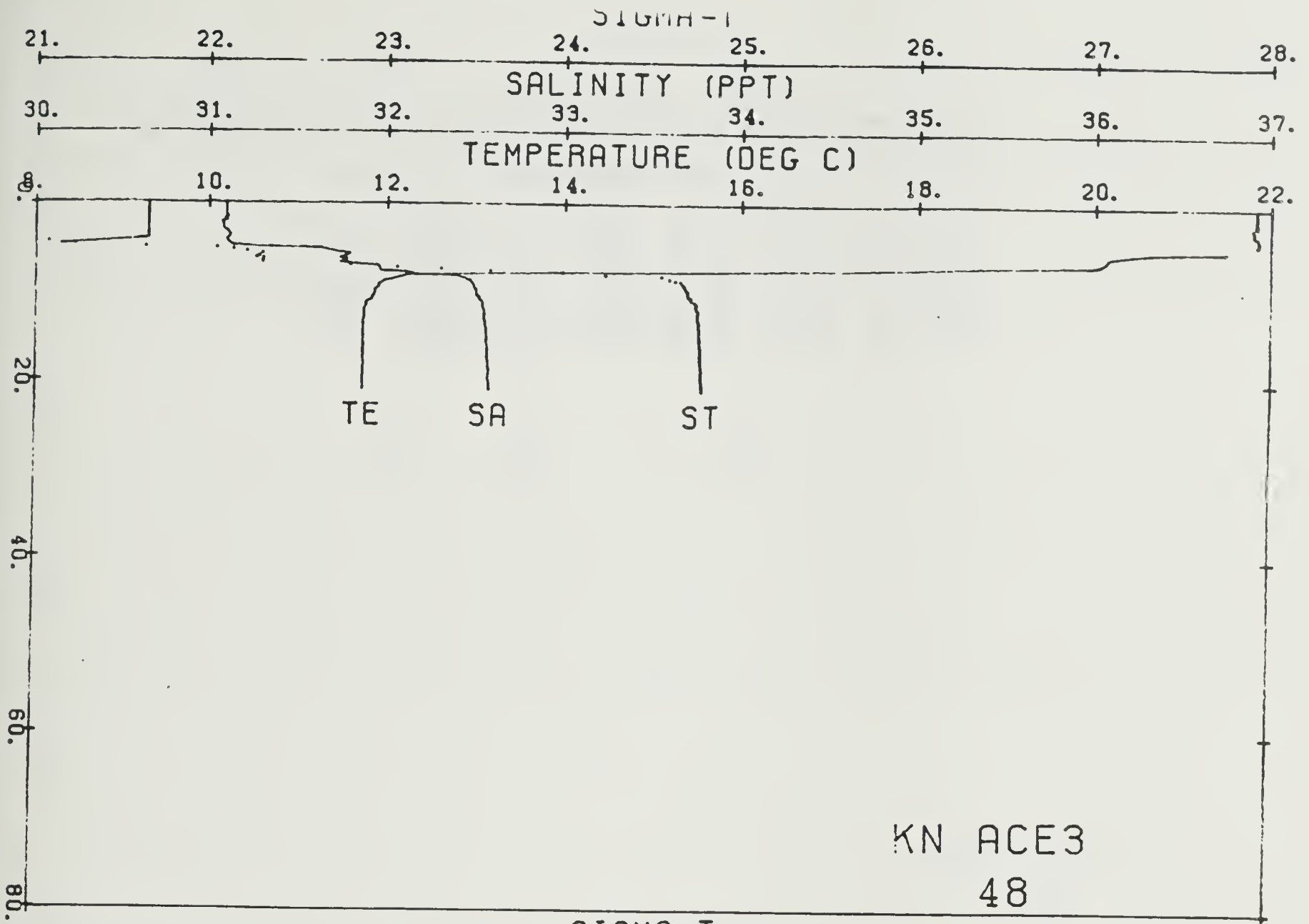


SHIP KN CRUISE ACE-3 STATION 48 POSITION 39 46.20 N 73 58.90 W
LOCAL TIME 1621 DATE 77/ 8/14 WIND = 10knots DIR = 210 DEPTH= 21M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	23.306	31.099	20.893	687.3	0.000	1526.3	0.0
5	21.471	31.380	21.616	618.1	.033	1522.0	5.0
10	11.862	32.498	24.673	326.1	.056	1494.0	10.0
15	11.730	32.556	24.742	319.6	.072	1493.7	15.0
20	11.726	32.573	24.756	318.4	.088	1493.8	20.0
21	11.726	32.575	24.757	318.3	.092	1493.8	21.0

SHIP KN CRUISE ACE-3 STATION 49 POSITION 39 46.30 N 73 46.10 W
LOCAL TIME 2020 DATE 77/ 8/14 WIND = 12knots DIR = 210 DEPTH= 25M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	24.612	31.869	21.095	667.9	0.000	1530.4	0.0
5	24.614	31.878	21.100	667.5	.033	1530.5	5.0
10	24.439	31.875	21.151	662.9	.067	1530.2	10.0
15	15.128	32.351	23.904	399.6	.093	1504.8	15.0
20	11.936	32.720	24.831	311.3	.111	1494.7	20.0
23	11.931	32.725	24.836	310.9	.121	1494.7	23.2

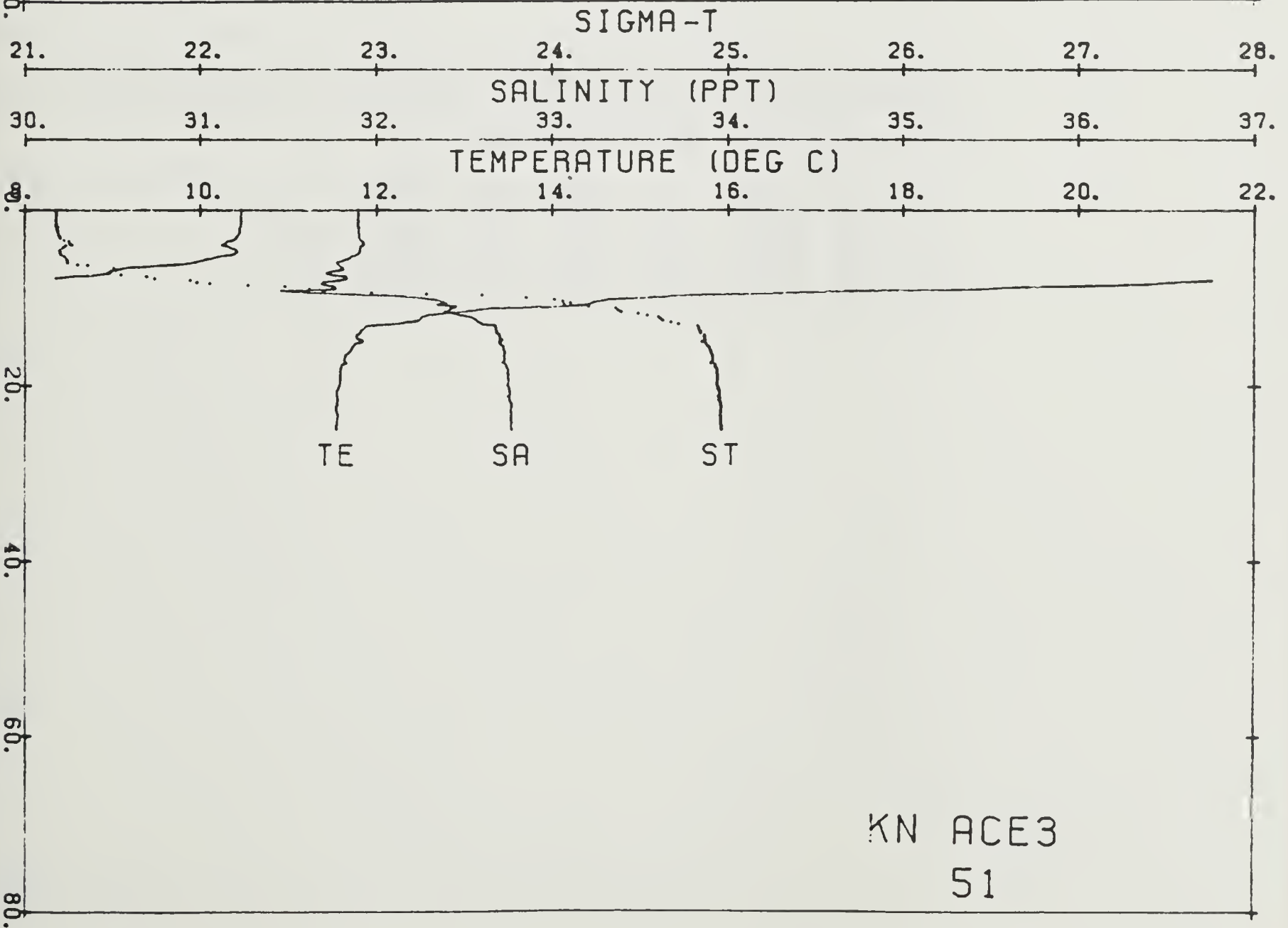
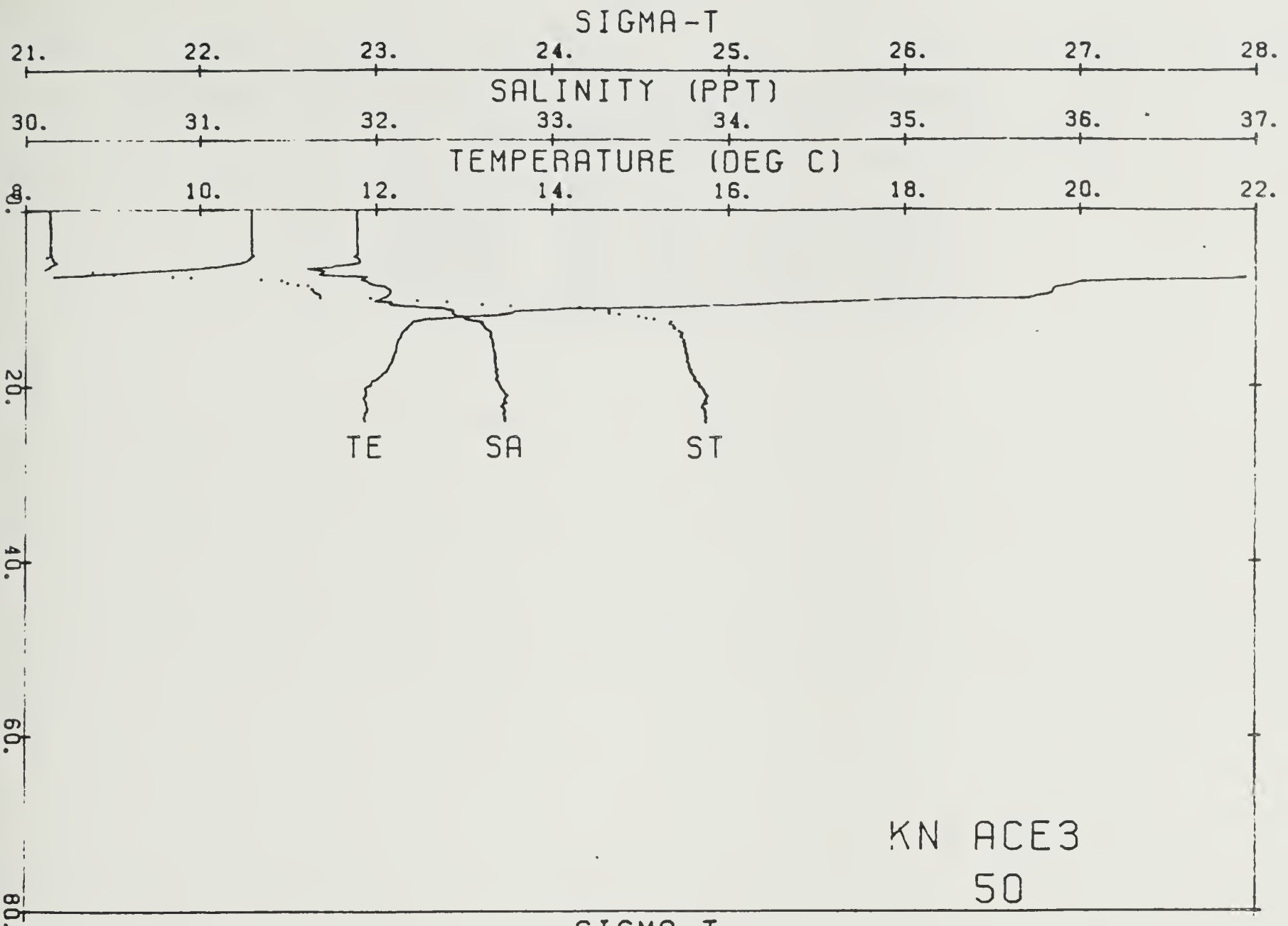


SHIP KN CRUISE ACE-3 STATION 50 POSITION 39 46.00 N 73 45.30 W
LOCAL TIME 22 DATE 77/ 8/15 WIND = 12knots DIR = 250 DEPTH= 25M

DTH	TEM	SAL	SGT	AND	DYN	SVL	PRS
0	24.592	31.896	21.121	665.4	0.000	1530.4	0.0
5	24.590	31.900	21.125	665.2	.033	1530.5	5.0
10	19.432	31.745	22.428	540.5	.063	1516.9	10.0
15	12.241	32.666	24.733	320.6	.085	1495.6	15.0
20	11.934	32.715	24.828	311.6	.101	1494.7	20.0
25	11.871	32.744	24.862	308.5	.113	1494.6	24.1

SHIP KN CRUISE ACE-3 STATION 51 POSITION 39 46.60 N 73 46.80 W
LOCAL TIME 416 DATE 77/ 8/15 WIND = 12knots DIR = 280 DEPTH= 25M

DTH	TEM	SAL	SGT	AND	DYN	SVL	PRS
0	24.467	31.897	21.159	661.7	0.000	1530.1	0.0
5	24.385	31.895	21.182	659.7	.033	1530.0	5.0
10	15.076	32.245	23.833	406.2	.060	1504.4	10.0
15	11.842	32.698	24.832	311.1	.078	1494.3	15.0
20	11.579	32.749	24.919	302.9	.093	1493.5	20.0
25	11.546	32.769	24.941	300.9	.108	1493.5	25.0
25	11.546	32.769	24.941	300.9	.108	1493.5	25.0

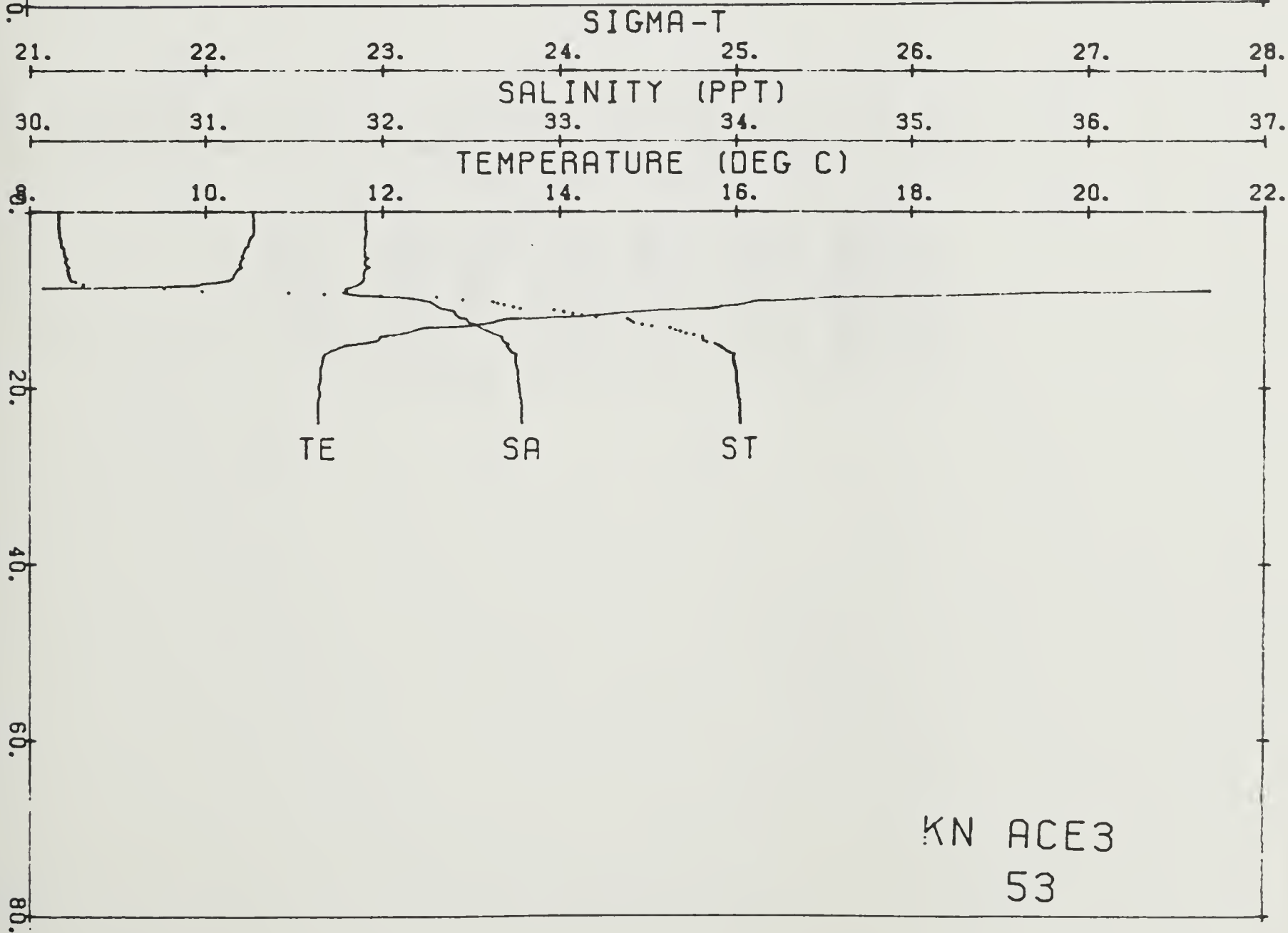
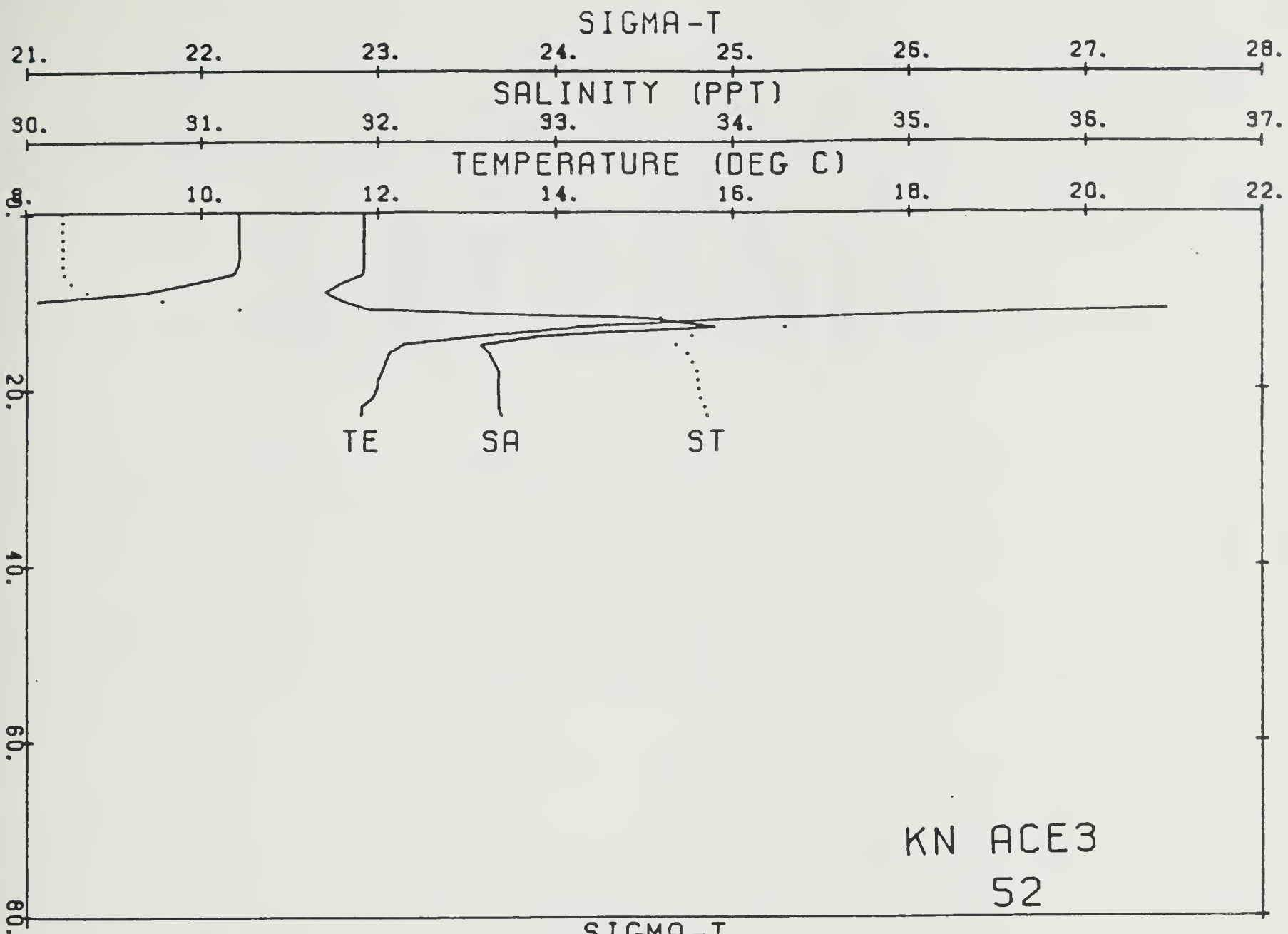


SHIP KN CRUISE ACE-3 STATION 52 POSITION 39 46.00 N 72 46.00 W
LOCAL TIME 804 DATE 77/ 8/15 WIND = 8knots DIR = 200 DEPTH= 25M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	24.430	31.919	21.186	659.1	0.000	1530.0	0.0
5	24.426	31.918	21.186	659.3	.033	1530.1	5.0
10	22.086	31.818	21.780	602.6	.065	1524.2	10.0
15	12.482	32.697	24.711	322.7	.088	1496.5	15.1
20	11.965	32.674	24.790	315.2	.104	1494.7	20.1
23	11.800	32.690	24.833	311.2	.113	1494.2	23.0

SHIP KN CRUISE ACE-3 STATION 53 POSITION 39 46.60 N 73 46.80 W
LOCAL TIME 1204 DATE 77/ 8/15 WIND = 7knots DIR = 60 DEPTH= 24M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	24.537	31.905	21.144	663.2	0.000	1530.3	0.0
5	24.411	31.900	21.177	660.2	.033	1530.0	5.0
10	16.756	32.209	23.431	444.7	.061	1509.6	10.0
15	11.736	32.712	24.862	308.2	.080	1493.9	15.0
20	11.281	32.773	24.992	296.0	.095	1492.5	20.0
25	11.268	32.788	25.007	294.7	.106	1492.5	24.0

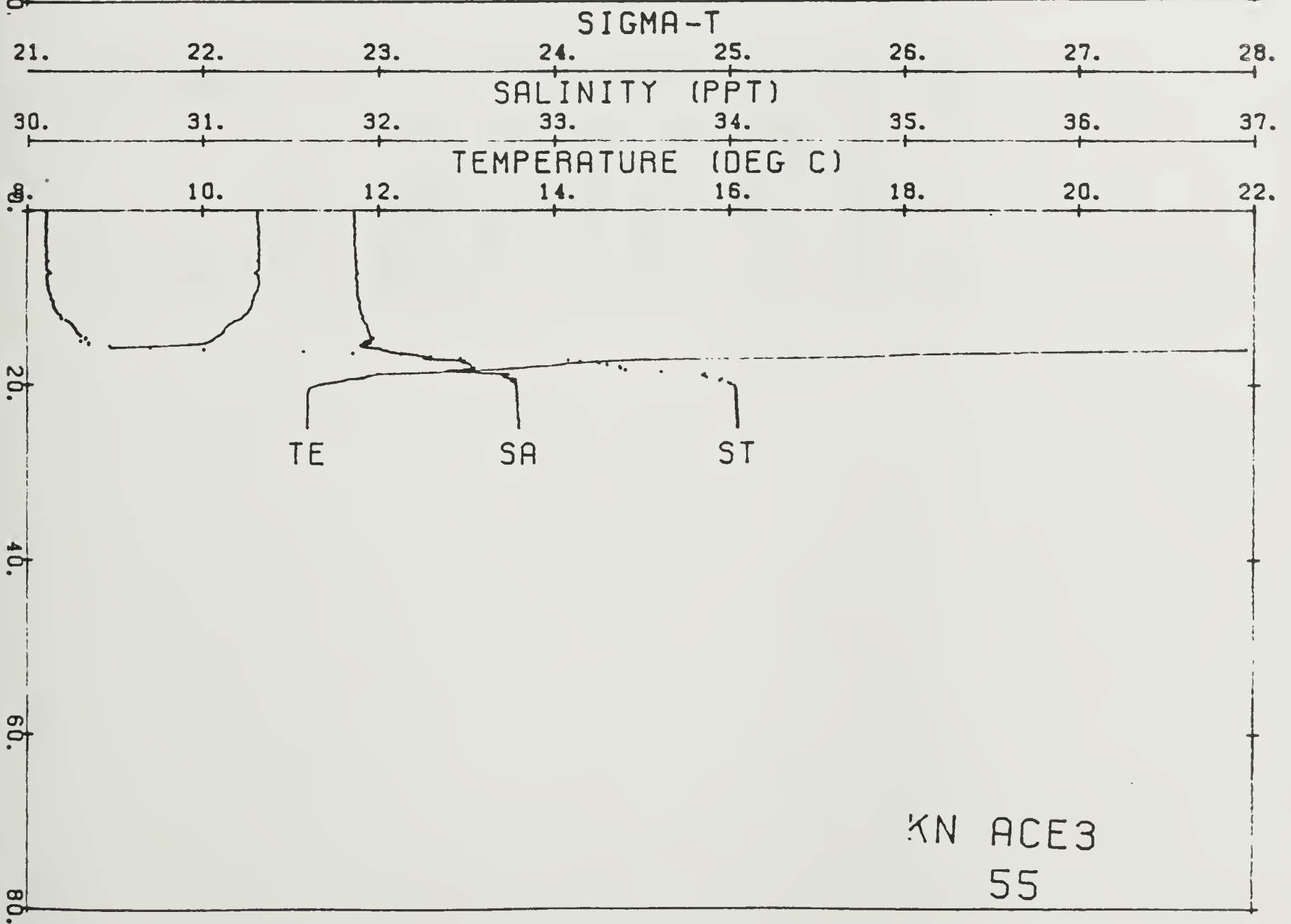
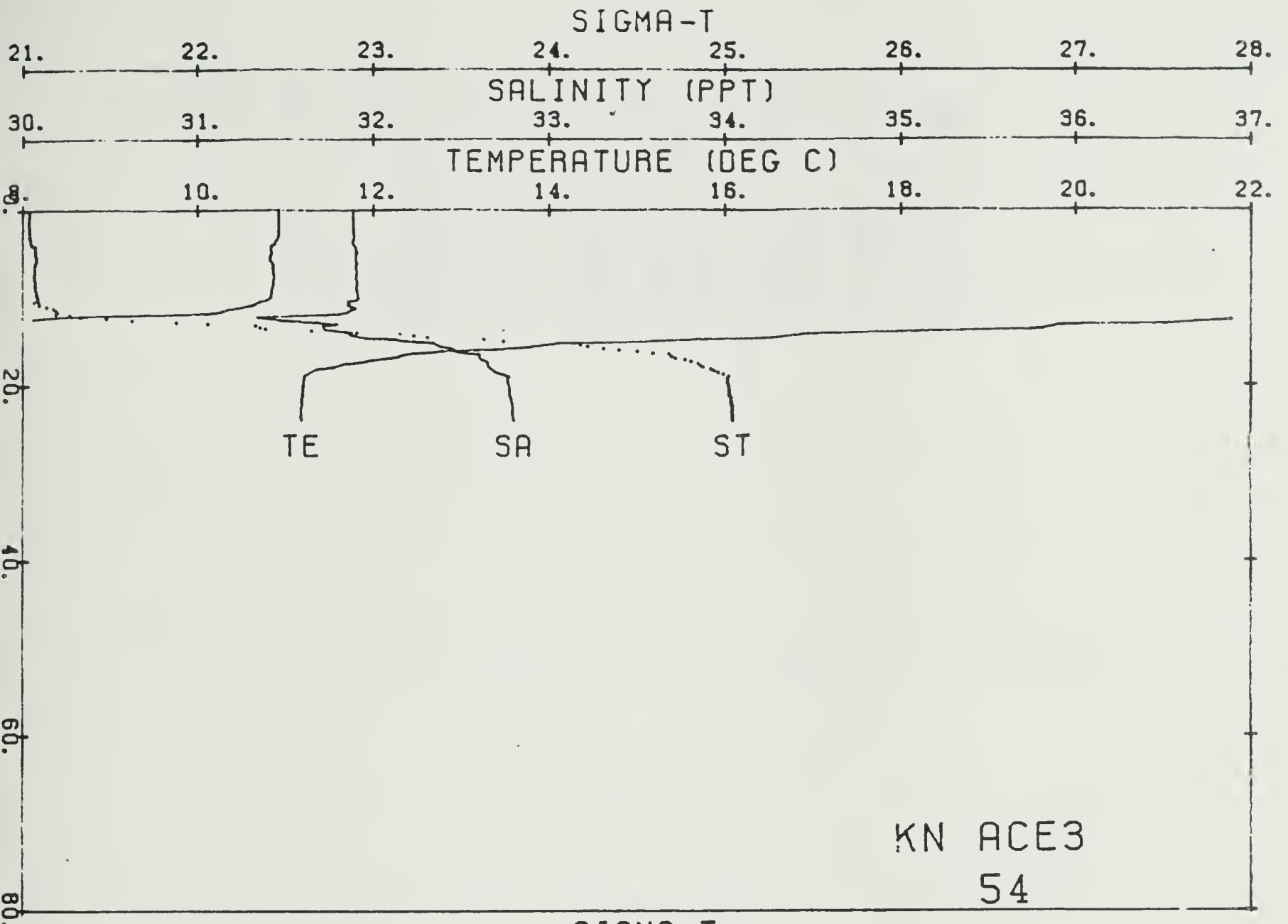


SHIP KN CRUISE ACE-3 STATION 54 POSITION 39 46.30 N 73 46.10 W
LOCAL TIME 1618 DATE 77/ 8/15 WIND = 5knots DIR = 130 DEPTH= 24M

OTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	24.915	31.886	21.017	675.4	0.000	1531.2	0.0
5	24.831	31.901	21.054	672.0	.034	1531.1	5.0
10	24.825	31.916	21.067	670.9	.067	1531.1	10.0
15	15.336	32.167	23.717	417.4	.094	1505.2	15.0
20	11.195	32.768	25.004	294.8	.112	1492.2	20.0
25	11.176	32.796	25.029	292.5	.124	1492.2	24.0

SHIP KN CRUISE ACE-3 STATION 55 POSITION 39 46.60 N 73 46.80 W
LOCAL TIME 2017 DATE 77/ 8/15 WIND = 4knots DIR = 165 DEPTH= 25M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	24.622	31.860	21.085	668.9	0.000	1530.4	0.0
5	24.635	31.869	21.088	668.7	.033	1530.5	5.0
10	24.575	31.885	21.118	666.0	.067	1530.5	10.0
15	24.080	31.913	21.285	650.2	.100	1529.4	15.0
20	11.322	32.779	24.989	296.2	.123	1492.6	20.0
25	11.185	32.799	25.029	292.5	.138	1492.2	25.0
25	11.185	32.799	25.029	292.5	.138	1492.2	25.0

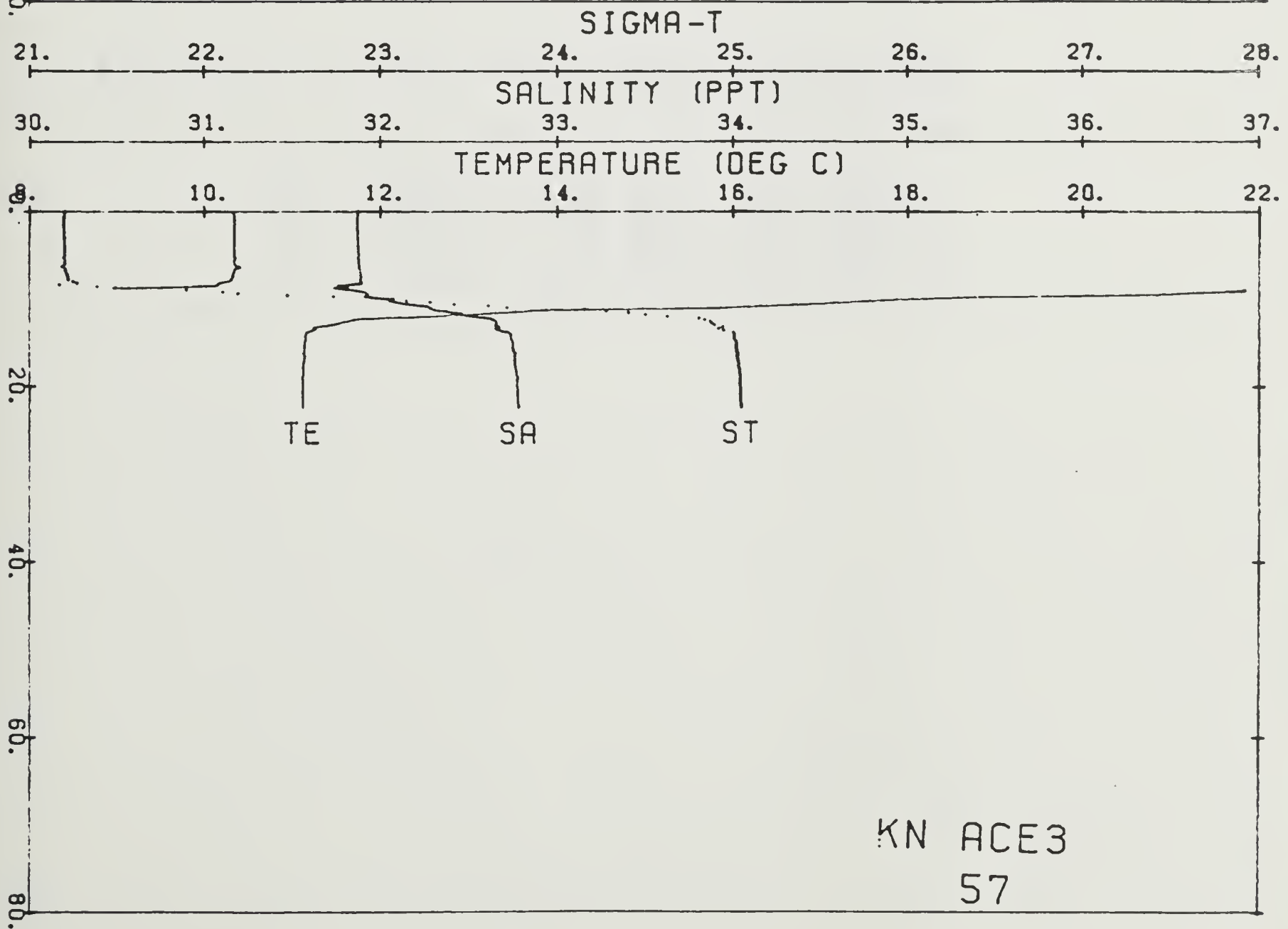
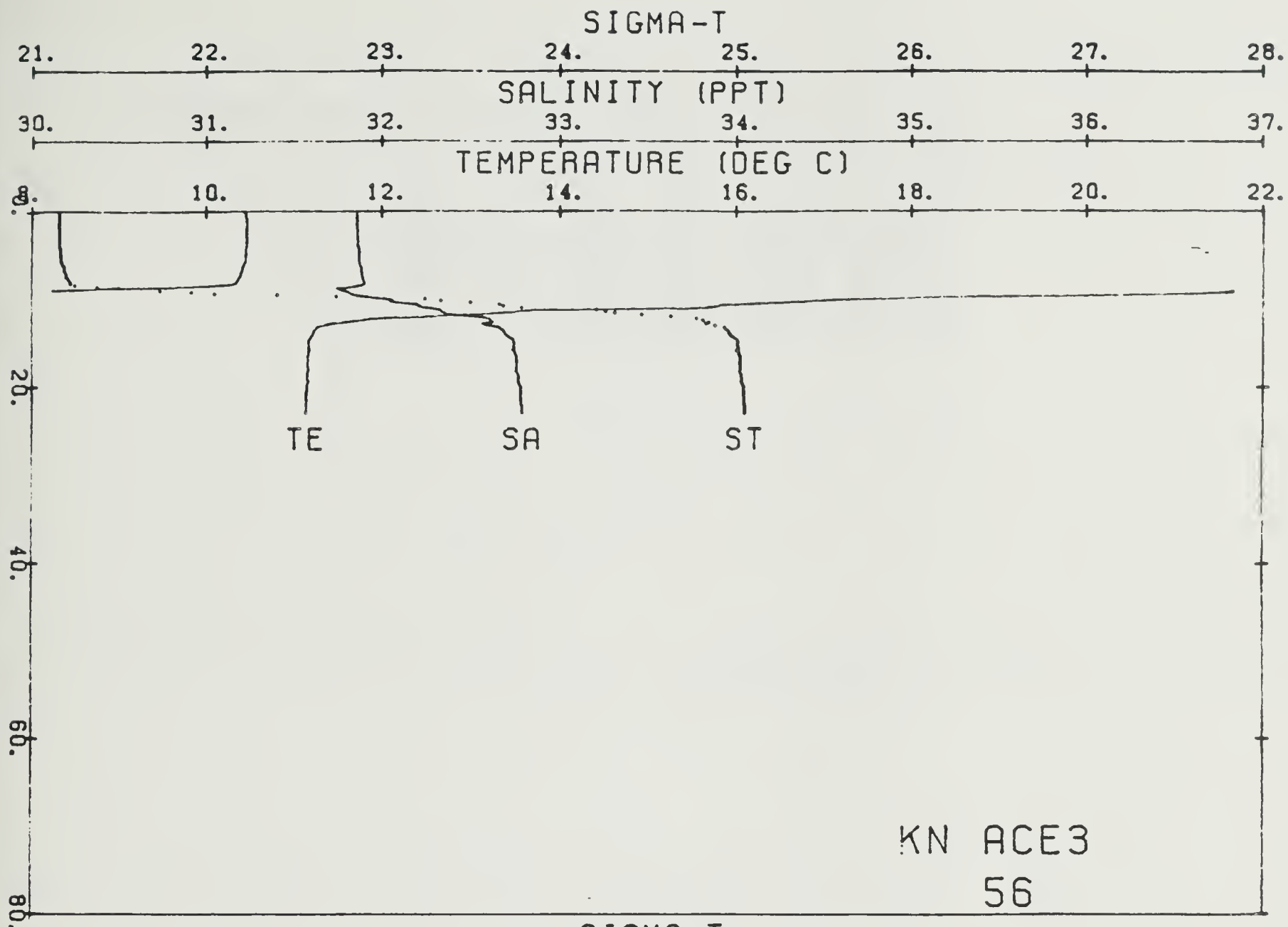


SHIP KN CRUISE ACE-3 STATION 56 POSITION 39 46.60 N 73 46.40 W
LOCAL TIME 10 DATE 77/ 8/16 WIND = 4knots DIR = 200 DEPTH= 25M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	24.442	31.858	21.136	663.9	0.000	1530.0	0.0
5	24.450	31.870	21.143	663.4	.033	1530.1	5.0
10	17.160	32.058	23.221	464.7	.061	1510.7	10.0
15	11.161	32.743	24.990	296.0	.080	1491.9	15.0
20	11.140	32.782	25.024	292.9	.095	1492.0	20.0
23	11.132	32.787	25.030	292.4	.104	1492.0	23.0

SHIP KN CRUISE ACE-3 STATION 57 POSITION 39 46.60 N 73 46.40 W
LOCAL TIME 418 DATE 77/ 8/16 WIND = knots DIR = DEPTH= 25M

OTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	24.323	31.877	21.186	659.1	0.000	1529.7	0.0
5	24.342	31.882	21.184	659.5	.033	1529.9	5.0
10	17.880	32.065	23.056	480.5	.061	1512.8	10.0
15	11.138	32.752	25.002	294.9	.081	1491.9	15.0
20	11.122	32.778	25.025	292.8	.096	1491.9	20.0
22	11.119	32.784	25.030	292.4	.103	1491.9	22.4

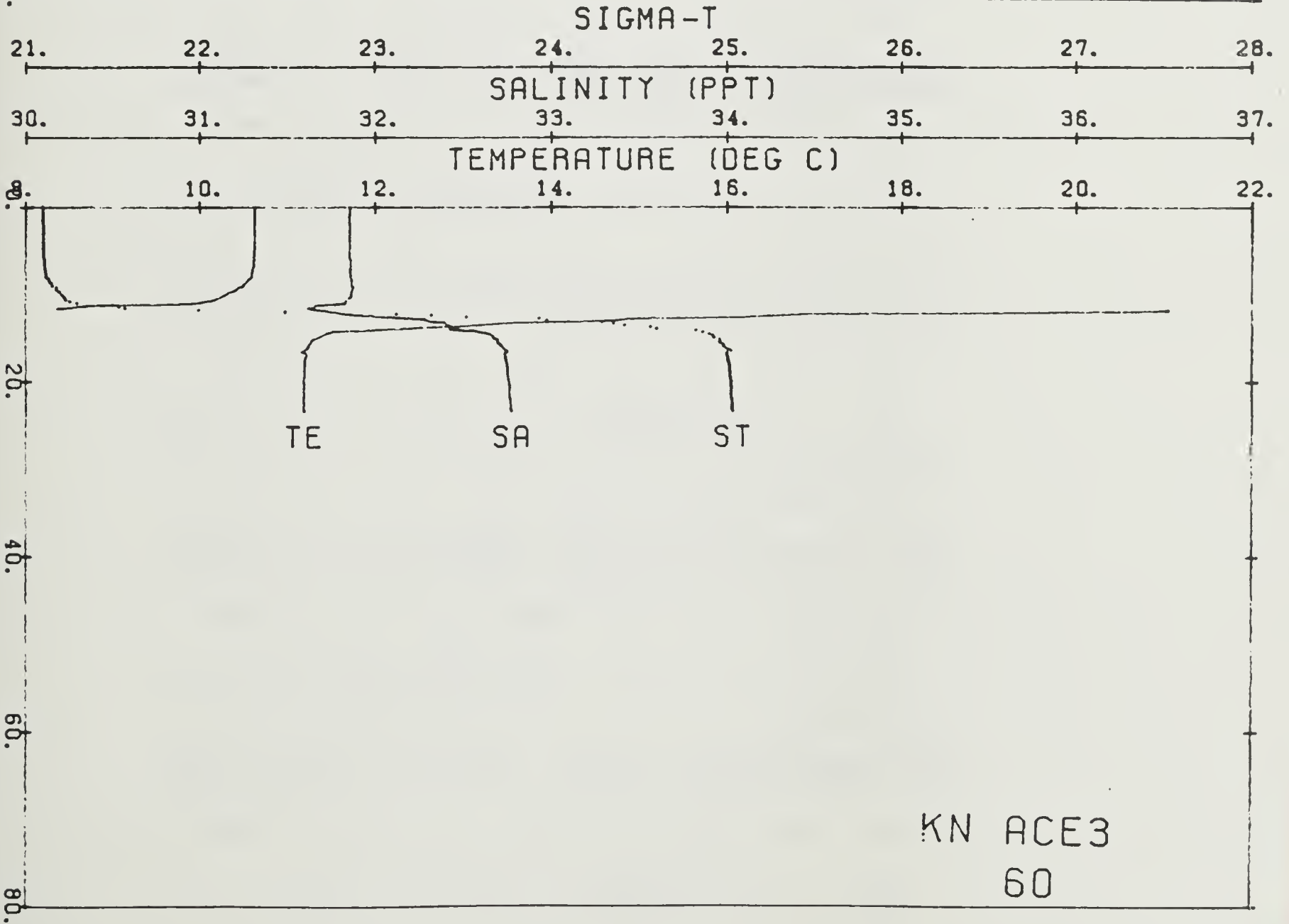
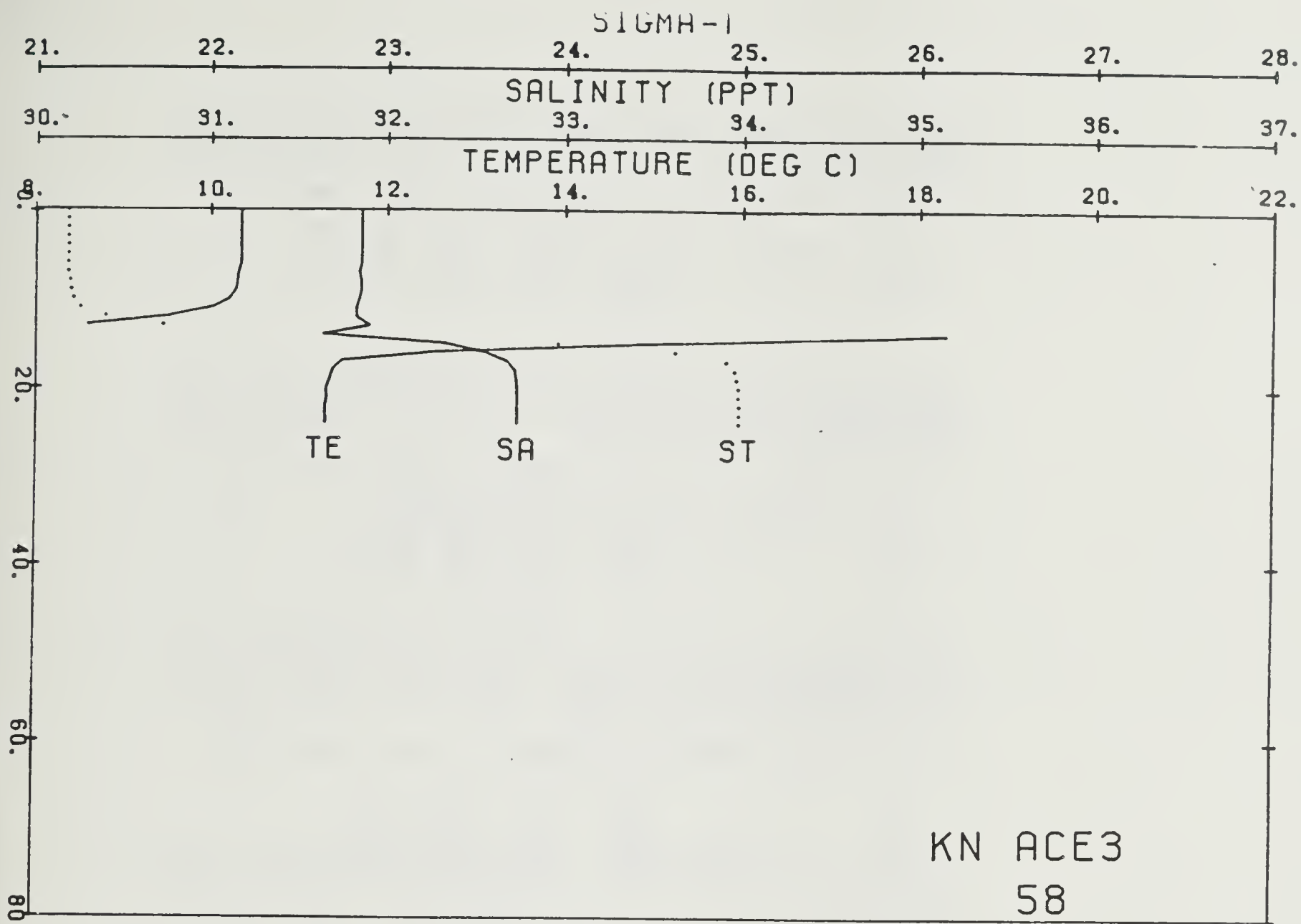


SHIP KN CRUISE ACE-3 STATION 58 POSITION 39 46.60 N 73 46.60 W
LOCAL TIME 925 DATE 77/ 8/16 WIND = 14knots DIR = 150 DEPTH= 25M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	24.341	31.853	21.163	661.4	0.000	1529.7	0.0
5	24.342	31.853	21.162	661.6	.033	1529.8	5.0
10	24.164	31.836	21.201	658.0	.066	1529.4	10.0
15	15.090	32.189	23.787	410.7	.093	1504.5	15.0
20	11.315	32.728	24.951	299.8	.111	1492.5	20.1
25	11.291	32.732	24.959	299.2	.123	1492.5	24.0

SHIP KN CRUISE ACE-3 STATION 60 POSITION 39 46.60 N 73 46.60 W
LOCAL TIME 1556 DATE 77/ 8/16 WIND = knots DIR = DEPTH= 25M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	24.622	31.854	21.080	669.3	0.000	1530.4	0.0
5	24.616	31.855	21.083	669.2	.033	1530.5	5.0
10	24.285	31.864	21.187	659.4	.067	1529.8	10.0
15	11.322	32.672	24.906	304.0	.091	1492.4	15.0
20	11.180	32.767	25.006	294.7	.106	1492.1	20.0
23	11.185	32.779	25.014	293.9	.116	1492.2	23.4



SHIP KN CRUISE ACE-3 STATION 001 POSITION 40 58.3N 71 42.1W
LOCAL TIME 2133 DATE 77/ 8/ 4 DEPTH= 43M

OTH	TEM	SAL	OXY	PHOS	SIL	NITR	NO2	AMM
0				0.50	1.34	1.93	0.33	
15			5.28	0.37	7.60	1.00	0.17	
27			5.23	0.26	5.55	0.60	0.09	
39			5.26	0.06	0.64			

SHIP KN CRUISE ACE-3 STATION 002 POSITION 40 46.0N 72 30.4W
LOCAL TIME 811 DATE 77/ 8/ 5 DEPTH= 29M

OTH	TEM	SAL	OXY	PHOS	SIL	NITR	NO2	AMM
0			4.97	0.05	1.04	0.11		
10			4.53		1.52	0.07		
20			5.49	0.01	0.37	0.05		
26			4.42	0.55	4.78	0.33	0.02	

SHIP KN CRUISE ACE-3 STATION 003 POSITION 40 45.7N 72 29.5W
LOCAL TIME 1510 DATE 77/ 8/ 5 DEPTH= 29M

OTH	TEM	SAL	OXY	PHOS	SIL	NITR	NO2	AMM
0			5.75	0.04	1.60	0.18		
10			6.25		1.25	0.02		
15			5.96	0.01	0.96	0.07		
20		31.792	5.55	0.11	0.92	0.03		
27		32.992	5.04	0.34	3.61	0.56	0.05	

SHIP KN CRUISE ACE-3 STATION 004 POSITION 40 45.1N 72 30.4W
LOCAL TIME 2106 DATE 77/ 8/ 5 DEPTH= 31M

DTH	TEM	SAL	OXY	PHOS	SIL	NITR	NO2	AMM
18				0.50	7.21	1.67	0.20	
27				0.28	2.26	0.23	0.05	

SHIP KN CRUISE ACE-3 STATION 005 POSITION 40 44.3N 72 28.4W
LOCAL TIME 55 DATE 77/ 8/ 6 DEPTH= 30M

OTH	TEM	SAL	OXY	PHOS	SIL	NITR	NO2	AMM
0		31.870	5.90					
15		31.489	5.89					
26		32.382	4.93	0.60				

SHIP KN CRUISE ACE-3 STATION 006 POSITION 40 46.7N 72 29.2W
LOCAL TIME 502 DATE 77/ 8/ 6 DEPTH= 26M

OTH	TEM	SAL	OXY	PHOS	SIL	NITR	NO2	AMM
22				0.16	0.68	0.10		

SHIP KN CRUISE ACE-3 STATION 007 POSITION 40 46.2N 72 28.9W
LOCAL TIME 859 DATE 77/ 8/ 6 DEPTH= 28M

OTH	TEM	SAL	OXY	PHOS	SIL	NITR	NO2	AMM
0		31.779	5.40					
20		31.459	5.81		0.70		0.02	
25		31.814	5.12	0.30	0.62	0.08	0.01	

SHIP KN CRUISE ACE-3 STATION 008 POSITION 40 46.4N 72 28.7W
LOCAL TIME 1402 DATE 77/ 8/ 6 DEPTH= 28M

DTH	TEM	SAL	OXY	PHOS	SIL	NITR	NO2	AMM
21				0.42	2.08	0.06	0.02	
26				0.74	8.40	1.78	0.18	1.09

SHIP KN CRUISE ACE-3 STATION 009 POSITION 40 46.2N 72 29.8W
LOCAL TIME 1632 DATE 77/ 8/ 6 DEPTH= 28M

DTH	TEM	SAL	OXY	PHOS	SIL	NITR	NO2	AMM
0		31.457	5.45					
20		31.831	4.14	0.51	1.28	0.16	0.01	0.02
22		31.866	4.67	0.62	3.14	0.20	0.02	

SHIP KN CRUISE ACE-3 STATION 010 POSITION 40 46.0N 72 29.9W
LOCAL TIME 2045 DATE 77/ 8/ 6 DEPTH= 27M

DTH	TEM	SAL	OXY	PHOS	SIL	NITR	NO2	AMM
20				0.08	0.45	0.06		
23				0.37	1.00			

SHIP KN CRUISE ACE-3 STATION 011 POSITION 40 46.2N 72 29.9W
LOCAL TIME 34 DATE 77/ 8/ 7 DEPTH= 26M

DTH	TEM	SAL	OXY	PHOS	SIL	NITR	NO2	AMM
0		31.627	3.55					
14		31.784	4.50	0.31	0.81		0.01	0.03
24		32.073	3.33	0.86	7.56	1.60	0.16	0.63

SHIP KN CRUISE ACE-3 STATION 012 POSITION 40 46.5N 72 30.1W
LOCAL TIME 450 DATE 77/ 8/ 7 DEPTH= 28M

DTH	TEM	SAL	OXY	PHOS	SIL	NITR	NO2	AMM
16				0.25	0.63			
23				0.48	2.40	0.18	0.03	

SHIP KN CRUISE ACE-3 STATION 013 POSITION 40 46.5N 72 29.9W
LOCAL TIME 843 DATE 77/ 8/ 7 DEPTH= 26M

DTH	TEM	SAL	OXY	PHOS	SIL	NITR	NO2	AMM
0			5.80					
15		31.789	5.27	0.32	0.37			
23		31.932	4.97	0.25	0.33			

SHIP KN CRUISE ACE-3 STATION 014 POSITION 40 46.7N 72 29.9W
LOCAL TIME 1218 DATE 77/ 8/ 7 DEPTH= 26M

DTH	TEM	SAL	OXY	PHOS	SIL	NITR	NO2	AMM
20								
22				0.36	0.30			

SHIP KN CRUISE ACE-3 STATION 015 POSITION 40 41.2N 72 26.3W
 LOCAL TIME 1617 DATE 77/ 8/ 7 DEPTH= 36M

DTH	TEM	SAL	OXY	PHOS	SIL	NITR	NO2	AMM
0				0.07	0.84	0.18	0.01	
10				0.61	8.25	2.37	0.29	0.14
20				0.62	8.34	2.42	0.30	0.14
30				0.51	5.65	1.88	0.69	0.20
32				0.53	6.22	2.25	0.85	0.87

SHIP KN CRUISE ACE-3 STATION 016 POSITION 40 35.6N 72 21.6W
 LOCAL TIME 1838 DATE 77/ 8/ 7 DEPTH= 42M

DTH	TEM	SAL	OXY	PHOS	SIL	NITR	NO2	AMM
0		31.583	3.51	0.09	0.96	0.22	0.01	
10		32.232	2.12	0.09	2.07	0.11		
20		32.700	3.42	0.11	1.83	0.14		0.28
23				0.14	2.53	0.08		
30				0.46	6.82	2.26	0.60	1.11
40				0.68	10.96	5.20	0.88	2.36

SHIP KN CRUISE ACE-3 STATION 017 POSITION 40 31.0N 72 17.2W
 LOCAL TIME 2030 DATE 77/ 8/ 7 DEPTH= 53M

DTH	TEM	SAL	OXY	PHOS	SIL	NITR	NO2	AMM
0				0.11	1.22	0.17	0.03	
10				0.03	1.55	0.02		
20				0.04	1.52		0.01	
25				0.06	1.25			
30				0.12	1.60		0.01	
40				0.60	10.55	4.65	0.88	2.20
50				0.64	10.60	4.80	0.71	2.30

SHIP KN CRUISE ACE-3 STATION 018 POSITION 40 25.4N 72 12.6W
 LOCAL TIME 2237 DATE 77/ 8/ 7 DEPTH= 57M

DTH	TEM	SAL	OXY	PHOS	SIL	NITR	NO2	AMM
0				0.05	1.48		0.01	
10				1.72				
19				1.97				
30				0.12	2.36	0.62	0.24	
40				0.45	9.81	4.81	0.80	2.66
50				0.52	10.27	4.61	0.74	2.88
53				0.56	11.90	5.00	0.66	3.08

SHIP KN CRUISE ACE-3 STATION 019 POSITION 40 19.6N 72 08.8W
 LOCAL TIME 431 DATE 77/ 8/ 8 DEPTH= 62M

DTH	TEM	SAL	OXY	PHOS	SIL	NITR	NO2	AMM
0				0.07	2.87	0.05		0.13
10				0.07	3.15			0.10
20				0.20	2.85		0.01	0.18
30				0.27	2.75	0.70	0.39	0.89
40				0.72	11.23	4.58	0.48	3.06
50				0.80	14.08	5.98	0.38	3.31
58				0.84	15.20	7.90	0.44	2.12

SHIP KN CRUISE ACE-3 STATION O20 POSITION 40 14.6N 72 04.3W
 LOCAL TIME 558 DATE 77/ 8/ 8 DEPTH= 62M

DTH	TEM	SAL	OXY	PHOS	SIL	NITR	NO2	AMM
0				0.10	2.82	0.10	0.02	0.18
10				0.11	3.02			0.16
20				0.18	2.70		0.01	0.10
30				0.68	10.23	4.38	0.50	2.62
40				0.76	12.10	5.20	0.40	2.96
50				0.85	15.28	6.70	0.28	2.92
60				0.85	15.10	7.50	0.25	2.27

SHIP KN CRUISE ACE-3 STATION O21 POSITION 40 09.4N 71 59.8W
 LOCAL TIME 740 DATE 77/ 8/ 8 DEPTH= 65M

DTH	TEM	SAL	OXY	PHOS	SIL	NITR	NO2	AMM
0			3.10	0.02	2.85		0.01	0.04
10			3.25		2.15			0.01
20			3.68		2.32			0.04
30			3.74	0.07	2.32	0.30	0.04	0.04
40			3.16	0.43	5.12	6.92	0.08	0.06
50			3.59	0.67	12.88	10.00	0.05	0.05
60			2.97	0.67	13.40	10.35	0.13	0.02
63			2.89	0.69	14.05	10.65	0.10	0.08

SHIP KN CRUISE ACE-3 STATION O22 POSITION 40 07.3N 71 58.4W
 LOCAL TIME 1201 DATE 77/ 8/ 8 DEPTH= 74M

DTH	TEM	SAL	OXY	PHOS	SIL	NITR	NO2	AMM
0				0.11	3.12	0.12		0.16
10				0.06	2.75			0.04
20				0.07	2.40		0.02	0.07
30				0.55	5.40	7.18	0.05	0.04
40				0.70	8.25	9.08	0.04	0.15
50				0.84	13.75	10.50	0.06	0.06
60				0.78	13.88	10.78	0.02	0.12
70				0.82	16.50	11.40	0.14	0.10

SHIP KN CRUISE ACE-3 STATION O23 POSITION 40 05.0N 71 55.5W
 LOCAL TIME 1330 DATE 77/ 8/ 8 DEPTH= 77M

DTH	TEM	SAL	OXY	PHOS	SIL	NITR	NO2	AMM
0				0.08	2.65	0.10	0.01	0.08
10				2.05	0.05	0.01	0.05	
20				0.07	2.42		0.01	0.03
30				0.18	2.38	0.50	0.10	0.04
31				0.22	2.95	2.18	0.47	0.17
40				0.50	5.68	7.35	0.20	0.04
50				0.80	14.38	11.10	0.05	0.14
60				0.84	15.75	11.65	0.06	0.14
70				0.82	14.75	11.45	0.06	0.13
73				0.84	14.70	11.40	0.08	0.23

SHIP KN CRUISE ACE-3 STATION 024 POSITION 40 02.5N 71 53.3W
 LOCAL TIME 1524 DATE 77/ 8/ 8 DEPTH= 83M

DTH	TEM	SAL	OXY	PHOS	SIL	NITR	NO2	AMM
0			3.61	0.07	2.52	0.12	0.01	0.09
10			3.80		1.88			0.01
20			3.97		1.55			0.01
30			5.27	0.11	2.10	0.10		0.04
35			5.70	0.31	3.60	2.88	0.12	
40			4.62	0.65	7.85	8.75	0.05	0.40
50			4.18	0.56	6.65	8.28	0.10	0.08
60			4.67	0.64	9.48	10.22	0.05	0.01
70			4.68	0.75	13.15	11.65	0.05	
79			4.96	0.75	13.20	11.70	0.06	

SHIP KN CRUISE ACE-3 STATION 025 POSITION 39 59.5N 71 52.0W
 LOCAL TIME 1656 DATE 77/ 8/ 8 DEPTH= 95M

DTH	TEM	SAL	OXY	PHOS	SIL	NITR	NO2	AMM
0					1.72			0.01
10				2.05		0.01	0.17	
20				2.10		0.01		
30				0.41	5.25	7.20	0.23	
40				0.67	10.60	10.80	0.04	
50				0.68	10.25	11.35	0.04	0.01
60				0.68	9.60	11.70	0.06	0.02
70				0.70	10.15	12.02	0.06	0.10
80				0.78	10.70	12.28	0.10	0.62
92				0.02	2.25	0.12	0.01	

SHIP KN CRUISE ACE-3 STATION 026 POSITION 39 56.5N 71 49.6W
 LOCAL TIME 1831 DATE 77/ 8/ 8 DEPTH= 113M

DTH	TEM	SAL	OXY	PHOS	SIL	NITR	NO2	AMM
0				0.02	2.10	0.20	0.01	
10				0.03	1.78	0.22	0.01	
20				0.02	2.10	0.15		
36				0.25	3.65	3.70	0.26	
50				0.68	9.70	11.88	0.07	
60				0.74	10.25	12.80	0.04	
70				0.74	10.70	13.20	0.04	0.03
80				0.77	11.20	13.80	0.06	
90				0.79	11.45	13.95	0.07	
111				0.79	11.70	14.20	0.09	

SHIP KN CRUISE ACE-3 STATION 027 POSITION 39 54.4N 71 48.0W
 LOCAL TIME 2003 DATE 77/ 8/ 8 DEPTH= 137M

DTH	TEM	SAL	OXY	PHOS	SIL	NITR	NO2	AMM
0				0.05	2.05	0.15	0.01	
15					1.62	0.03		
30				0.02	2.10	0.01		
42				0.08	2.74	0.68	0.05	
50				0.29	3.64	4.96	0.26	
60				0.56	6.32	10.44	0.08	
70				0.62	6.97	12.07	0.04	
80				0.69	7.57	13.60	0.04	
100				0.84	12.45	15.98	0.04	
137				0.84	12.76	16.00	0.05	

SHIP KN CRUISE ACE-3 STATION O28 POSITION 39 51.4N 71 45.1W
 LOCAL TIME 2221 DATE 77/ 8/ 8 DEPTH= 250M

DTH	TEM	SAL	OXY	PHOS	SIL	NITR	NO2	AMM
0				0.01	1.28		0.01	0.07
10					0.92			0.04
20					0.96			0.07
30					1.56			0.12
40					2.34	0.40	0.16	0.16
45				0.16	3.28	3.68	0.45	0.08
50				0.34	4.05	7.80	0.23	0.25
100				0.74	9.69	15.52	0.01	0.06
175				0.79	8.63	17.20	0.01	0.09
253				1.02	12.65	20.70	0.05	0.13

SHIP KN CRUISE ACE-3 STATION O29 POSITION 39 48.6N 71 43.7W
 LOCAL TIME 9 DATE 77/ 8/ 9 DEPTH= 378M

DTH	TEM	SAL	OXY	PHOS	SIL	NITR	NO2	AMM
0		34.521	2.88		0.92	0.07		
10		34.748	2.97		0.75	0.01		0.02
20		35.173	3.94		1.25			
30		35.277	3.47		1.45			0.01
40		35.354	3.25		2.35	0.26	0.08	0.03
45		35.358	2.90	0.13	2.85	3.41	0.40	0.26
50		35.241	3.04	0.31	4.20	7.19	0.25	0.02
150		35.554	3.15	0.70	7.50	16.25		0.01
250		35.363	2.52	1.04	11.90	21.36		
372		35.047	3.17	1.17	14.85	22.60	0.05	0.04

SHIP KN CRUISE ACE-3 STATION O30 POSITION 39 46.4N 71 41.5W
 LOCAL TIME 220 DATE 77/ 8/ 9 DEPTH= 583M

DTH	TEM	SAL	OXY	PHOS	SIL	NITR	NO2	AMM
20					0.65	0.07		
30					1.30			0.06
43				0.11	3.15	3.70	0.27	0.07
75				0.65	8.65	13.58		
400				1.14	14.65	22.40		0.15
400				1.12	14.65	22.38		0.03
400				1.14	14.60	22.35		0.34
400				1.14	14.65	22.30		0.05
560				1.01	13.35	19.98		0.11

SHIP KN CRUISE ACE-3 STATION O31 POSITION 39 44.0N 71 39.5W
 LOCAL TIME 444 DATE 77/ 8/ 9 DEPTH= 847M

DTH	TEM	SAL	OXY	PHOS	SIL	NITR	NO2	AMM
0				0.01	0.69	0.09		0.13
10					0.70			
20					0.94			
30					1.60	0.09		0.50
40				0.12	2.69	4.01		0.11
45				0.27	3.55	7.20		0.02
75				0.06	6.54	14.77		0.27
100				0.70	7.45	16.08		0.02
150				0.76	8.36	17.22		0.07
200				0.96	10.50	19.85		0.02

SHIP KN CRUISE ACE-3 STATION 032 POSITION 39 39.0N 71 35.5W
 LOCAL TIME 743 DATE 77/ 8/ 9 DEPTH=1442M

OTH	TEM	SAL	OXY	PHOS	SIL	NITR	NO2	AMM
0		34.297	3.93		0.88	0.25		0.01
10		34.382	3.48		0.95	0.20		
20		34.782	3.14		1.00	0.22		0.01
30		35.036	3.67		2.25	0.25		0.03
36				0.17	2.75	1.00	0.09	0.08
40	34.630	3.06	0.25	4.50	7.55	0.12	0.21	
50	34.664	3.63	0.38	5.35	9.85	4.10		
75	35.125	2.79	0.49	6.75	13.20			
100	35.341	2.49	0.58	7.60	15.40			
150	35.504	2.12	0.72	8.50	17.65			0.11

SHIP KN CRUISE ACE-3 STATION 033 POSITION 39 33.4N 71 30.3W
 LOCAL TIME 1140 DATE 77/ 8/ 9 DEPTH=1870M

OTH	TEM	SAL	OXY	PHOS	SIL	NITR	NO2	AMM
0		34.305		0.05	1.28	0.22	0.03	0.13
10		36.139			1.40	0.12	0.03	0.14
20		36.152			1.75		0.02	0.10
30		36.481			2.19	2.34	0.22	0.32
40		35.578		0.06	1.91	2.31	0.43	0.22
50		35.730		0.38	3.58	7.64	0.13	0.16
75		35.651		0.69	6.20	13.45	0.04	0.79
100		35.767		0.85	8.19	17.71	0.05	0.16
500		36.460		1.19	13.81	21.96	0.02	0.11
800		37.027		1.03	12.76	19.39	0.02	

SHIP KN CRUISE ACE-3 STATION 034 POSITION 40 09.6N 72 01.2W
 LOCAL TIME 821 DATE 77/ 8/ 10 DEPTH= 66M

OTH	TEM	SAL	OXY	PHOS	SIL	NITR	NO2	AMM
0		32.165						
10		33.520						
20		34.588						
26		34.162		0.22	1.22		0.06	0.13
30		33.966						
40		33.662						
50		33.749						
60		33.801						
63		33.805		0.79	10.86		0.08	0.02

SHIP KN CRUISE ACE-3 STATION 035 POSITION 40 09.5N 72 00.7W
 LOCAL TIME 1307 DATE 77/ 8/ 10 DEPTH= 66M

OTH	TEM	SAL	OXY	PHOS	SIL	NITR	NO2	AMM
30				0.27	1.78		0.09	0.02
63				0.86	14.38		0.12	

SHIP KN CRUISE ACE-3 STATION 036 POSITION 40 09.3N 72 00.1W
 LOCAL TIME 1922 DATE 77/ 8/ 10 DEPTH= 68M

OTH	TEM	SAL	OXY	PHOS	SIL	NITR	NO2	AMM
0		32.368	4.07					
10		34.218	3.75					
20		34.242	3.36					
35		33.886	3.70	0.43	2.85	5.60		
40		33.788	2.89					
50		33.896						
62		33.982	2.43	0.87	15.45	12.70		0.05

SHIP KN CRUISE ACE-3 STATION 038 POSITION 40 09.3N 72 00.1W
 LOCAL TIME 46 DATE 77/ 8/11 DEPTH= 66M

DTH	TEM	SAL	OXY	PHOS	SIL	NITR	NO2	AMM
0	23.44			0.07	4.25		0.01	0.24
5				0.04	4.05		0.01	0.23
10	22.62				3.85		0.01	0.35
15				0.01	3.82		0.01	0.44
20	18.48			0.03	4.20		0.01	0.13
25	16.34			0.05	4.20		0.01	0.16
30	10.11			0.29	5.60		0.17	0.18
40	9.20			0.56	7.80		0.08	0.05
50	8.82			0.75	13.80		0.04	0.11
60	8.81			0.83	17.58		0.07	0.08

SHIP KN CRUISE ACE-3 STATION 039 POSITION 40 09.3N 72 00.1W
 LOCAL TIME 452 DATE 77/ 8/11 DEPTH= 66M

DTH	TEM	SAL	OXY	PHOS	SIL	NITR	NO2	AMM
0				0.08	2.15			0.03
5					1.80			0.03
10				0.02	1.95			0.17
15				0.04	2.15	0.01	0.35	
20				0.05	2.20	0.01	0.06	
25				0.10	2.40	0.02	0.48	
30				0.22	2.55	0.15	0.46	
40				0.48	5.25	0.09	0.10	
50				0.67	8.10	0.06	0.12	
60				0.83	15.95	0.08	0.10	

SHIP KN CRUISE ACE-3 STATION 040 POSITION 40 09.3N 72 00.1W
 LOCAL TIME 835 DATE 77/ 8/11 DEPTH 66M

DTH	TEM	SAL	OXY	PHOS	SIL	NITR	NO2	AMM
0	23.42			0.09	2.22			0.02
5	23.34			0.08	2.20			0.25
10	22.51				1.75			0.15
15	20.58			0.02	1.90			0.50
20	17.68			0.04	2.10			0.16
25	15.75			0.07	2.25			0.06
30	14.06			0.13	1.90			0.55
40	9.18			0.54	5.10	0.05	0.02	
50	8.88			0.66	7.75	0.07	0.14	
60	8.78			0.78	14.15	0.07	0.20	

SHIP KN CRUISE ACE-3 STATION 041 POSITION 40 09.0N 72 00.0W
 LOCAL TIME 1225 DATE 77/ 8/11 DEPTH= 65M

DTH	TEM	SAL	OXY	PHOS	SIL	NITR	NO2	AMM
0		32.353	3.57	0.09	1.99			
5		32.789	3.57	0.07	1.94			0.04
10		34.770	3.89	0.01	1.63		0.01	0.02
15		34.818	4.48		1.68		0.01	0.02
20		34.338	4.83	0.08	2.07		0.02	1.59
25		34.414	4.65	0.07	2.07		0.02	0.16
30		33.805	4.22	0.20	1.86		0.07	0.23
40		33.615	4.03	0.61	5.95		0.14	0.08
50		33.768	4.12	0.54	5.78		0.09	0.07
62		33.950	3.48	0.82	15.60		0.09	0.39

SHIP KN CRUISE ACE-3 STATION 042 POSITION 40 09.5N 72 00.5W
 LOCAL TIME 1616 DATE 77/ 8/11 DEPTH= 66M

DTH	TEM	SAL	OXY	PHOS	SIL	NITR	NO2	AMM
0				0.11	2.10		0.01	0.79
5				0.05	2.02		0.01	0.01
10				0.01	1.66		0.01	
15				0.02	1.80		0.01	0.08
20				0.07	2.09			
25				0.10	1.98		0.03	0.07
30				0.43	3.85		0.14	0.25
40				0.61	7.59		0.08	0.02
50				0.68	10.00		0.06	0.14
63				0.87	15.98		0.09	

SHIP KN CRUISE ACE-3 STATION 043 POSITION 40 09.1N 72 00.1W
 LOCAL TIME 2044 DATE 77/ 8/11 DEPTH= 66M

DTH	TEM	SAL	OXY	PHOS	SIL	NITR	NO2	AMM
0		32.166	3.49	0.10	2.56		0.02	0.11
5		32.359	3.23	0.08	2.46		0.02	0.01
15		34.666	4.59	0.02	2.12		0.02	
20		34.252	4.66	0.04	2.40		0.02	0.01
25			3.96	0.13	2.48		0.03	0.15
31		33.906	4.38	0.41	4.69		0.14	0.05
40		33.744	3.35	0.60	6.24		0.08	0.03
50		33.760	2.80	0.66	8.85		0.08	
62		34.005	2.91	0.85	16.56		0.08	

SHIP KN CRUISE ACE-3 STATION 044 POSITION 40 46.6N 72 31.1W
 LOCAL TIME 1323 DATE 77/ 8/12 DEPTH= 28M

DTH	TEM	SAL	OXY	PHOS	SIL	NITR	NO2	AMM
0		31.286		0.13	1.10	0.09		0.06
5		31.293		0.11	1.00	0.04		0.09
10		31.546		0.22	1.10	0.02		0.04
17		31.825		0.62	2.78	0.09	0.01	0.27
22		32.158		0.84	7.07	0.54	0.06	0.37

SHIP KN CRUISE ACE-3 STATION 045 POSITION 39 41.9N 73 34.4W
 LOCAL TIME 1200 DATE 77/ 8/14 DEPTH= 35M

DTH	TEM	SAL	OXY	PHOS	SIL	NITR	NO2	AMM
1		31.661	5.30	0.04	3.33	0.02		0.22
5			5.30	0.04	3.18			0.19
10		31.656	5.41	0.08	3.10			0.16
15			5.74	0.30	3.51			0.26
20		32.735	3.46	0.99	13.54	4.03	0.89	6.54
22			3.78	0.97	13.30	3.91	0.78	7.63
25			3.93	0.93	13.10	4.18	0.68	7.12
30		32.780	4.01	0.96	13.10	4.45	0.68	6.50

SHIP KN CRUISE ACE-3 STATION 046 POSITION 39 42.9N 73 40.9W
 LOCAL TIME 1338 DATE 77/ 8/14 DEPTH= 27M

DTH	TEM	SAL	OXY	PHOS	SIL	NITR	NO2	AMM
1			5.25	0.06	3.72	0.48	0.01	
5			5.23	0.05	3.50	0.45		
10			5.27	0.06	3.45	0.50		
15			5.21	0.17	3.60	0.50	0.02	
20			3.47	0.89	10.90	3.00	0.39	4.05
23			3.40	0.95	11.75	3.45	0.59	4.71

SHIP KN CRUISE ACE-3 STATION O47 POSITION 39 45.2N 73 50.9W
LOCAL TIME 1458 DATE 77/ 8/14 DEPTH= 24M

DTH	TEM	SAL	OXY	PHOS	SIL	NITR	NO2	AMM
0			5.28	0.07	5.38	0.52	0.02	0.08
5			5.24	0.07	5.08	0.50	0.01	0.11
10			5.13	0.27	4.50	0.50		0.12
13			5.36	0.08	4.02	0.50	0.01	0.40
15			4.62	0.51	5.10	0.59	0.02	0.33
20			3.28	0.95	11.08	3.18	0.54	4.35

SHIP KN CRUISE ACE-3 STATION O48 POSITION 39 46.2N 73 58.9W
LOCAL TIME 1630 DATE 77/ 8/14 DEPTH= 22M

DTH	TEM	SAL	OXY	PHOS	SIL	NITR	NO2	AMM
0			5.58	0.30	5.80	0.16	0.15	0.24
5			5.54	0.30	5.75	0.14	0.14	0.21
10			2.35	0.98	13.58	0.48	0.21	0.56
15			1.77	1.57	22.25	4.47	0.83	8.06
19			1.75	1.60	21.40	4.90	0.92	10.01

SHIP KN CRUISE ACE-3 STATION O52 POSITION 39 46.6N 73 46.8W
LOCAL TIME 814 DATE 77/ 8/15 DEPTH= 25M

DTH	TEM	SAL	OXY	PHOS	SIL	NITR	NO2	AMM
0		31.903	3.97					
5		31.992	2.86					
10		31.899	3.04					
15		32.494	2.94					
21		32.666	1.81					

SHIP KN CRUISE ACE-3 STATION O53 POSITION 39 46.6N 73 46.8W
LOCAL TIME 1208 DATE 77/ 8/15 DEPTH= 24M

DTH	TEM	SAL	OXY	PHOS	SIL	NITR	NO2	AMM
20			3.38					

SHIP KN CRUISE ACE-3 STATION O54 POSITION 39 46.6N 73 46.8W
LOCAL TIME 1617 DATE 77/ 8/15 DEPTH= 24M

DTH	TEM	SAL	OXY	PHOS	SIL	NITR	NO2	AMM
20			3.36					

SHIP KN CRUISE ACE-3 STATION O55 POSITION 39 46.5N 73 46.8W
LOCAL TIME 2022 DATE 77/ 8/15 DEPTH= 25M

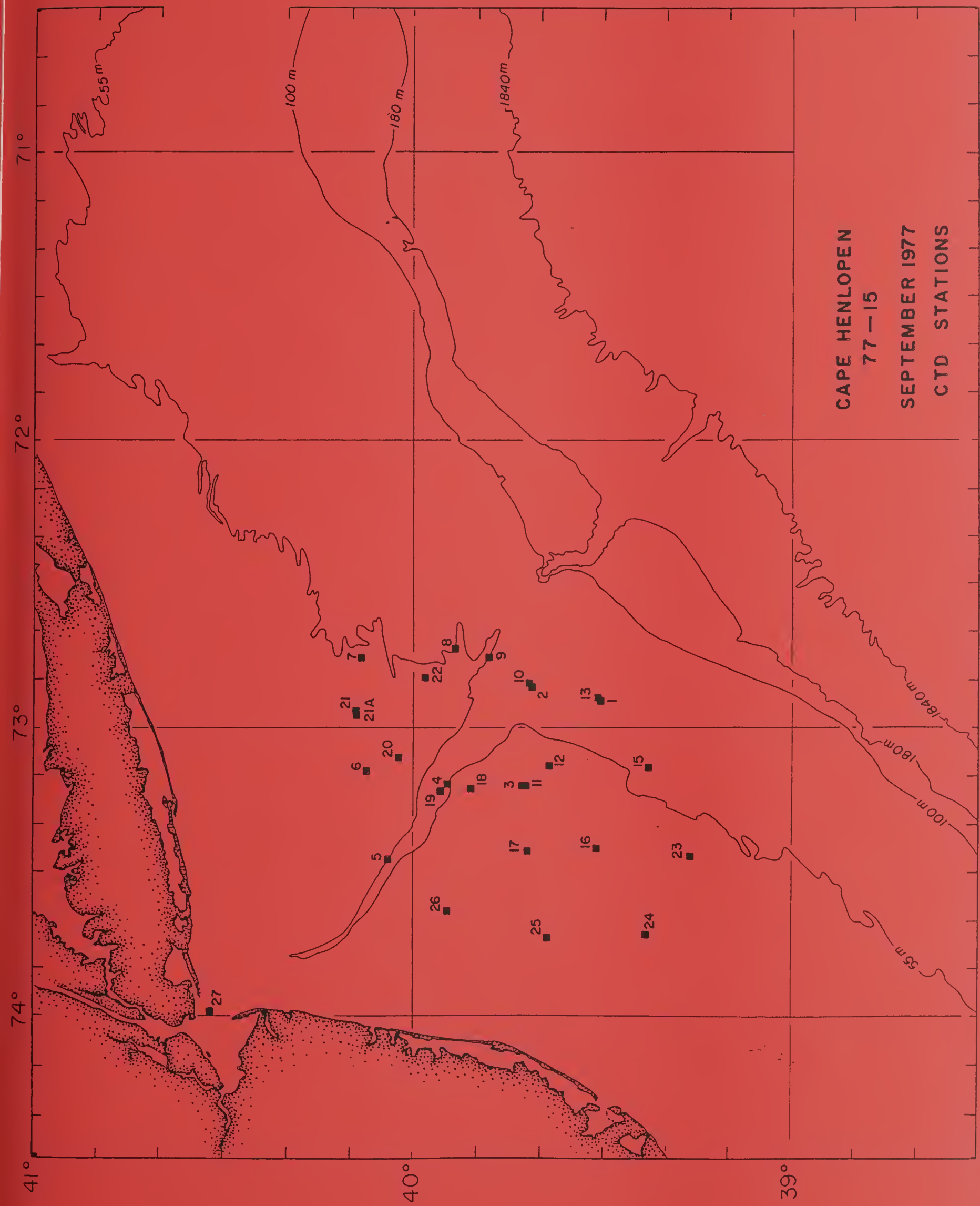
DTH	TEM	SAL	OXY	PHOS	SIL	NITR	NO2	AMM
21			2.80					

SHIP KN CRUISE ACE-3 STATION O56 POSITION 39 46.6N 73 46.4W
LOCAL TIME 13 DATE 77/ 8/16 DEPTH= 25M

DTH	TEM	SAL	OXY	PHOS	SIL	NITR	NO2	AMM
21			3.19					

SHIP KN CRUISE ACE-3 STATION 058 POSITION 39 46.6N 73 46.6W
LOCAL TIME 837 DATE 77/ 8/16 DEPTH= 25M

DTH	TEM	SAL	OXY	PHOS	SIL	NITR	NO2	AMM
0		31.841	5.18					
5		31.839	2.99					
10		31.838	3.06					
15		31.984	2.00					
21		32.703	2.11					



CAPE HENLOPEN
77-15
SEPTEMBER 1977
CTD STATIONS

CAPE HENLOPEN 77-15

Cruise dates: 20 September 1977 - 24 September 1977

Station numbers: 1-27

CTD and bottle data (24): 1-13, 15-21, 23-26

CTD data only (2): 22, 27

No CTD or bottle data (1): 14

SHIP CH CRUISE 77-15 STATION 1 POSITION 39 30.50 N 72 54.90 W
 LOCAL TIME 350 DATE 77/ 9/20 WIND = knots DIR = DEPTH= 61M

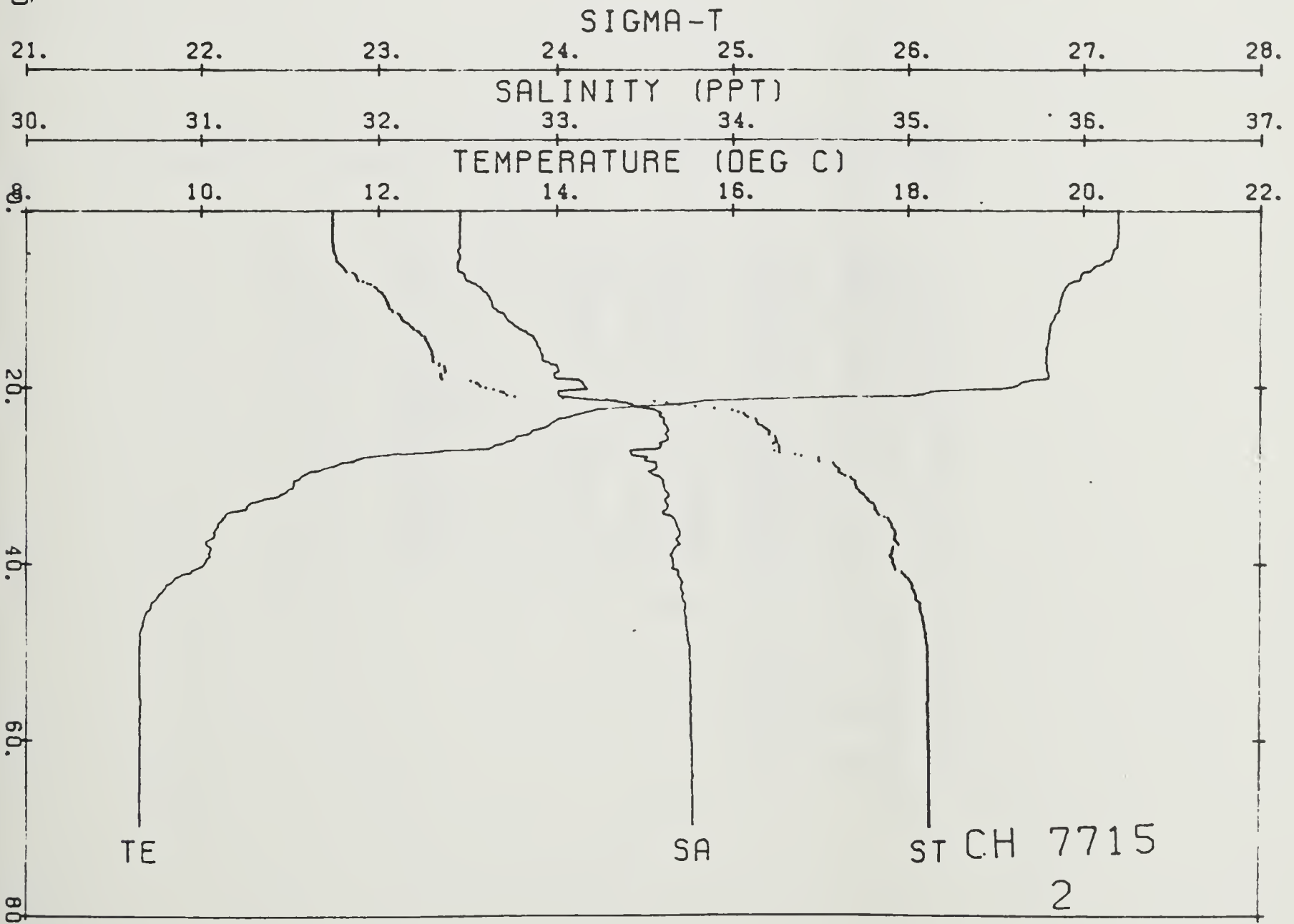
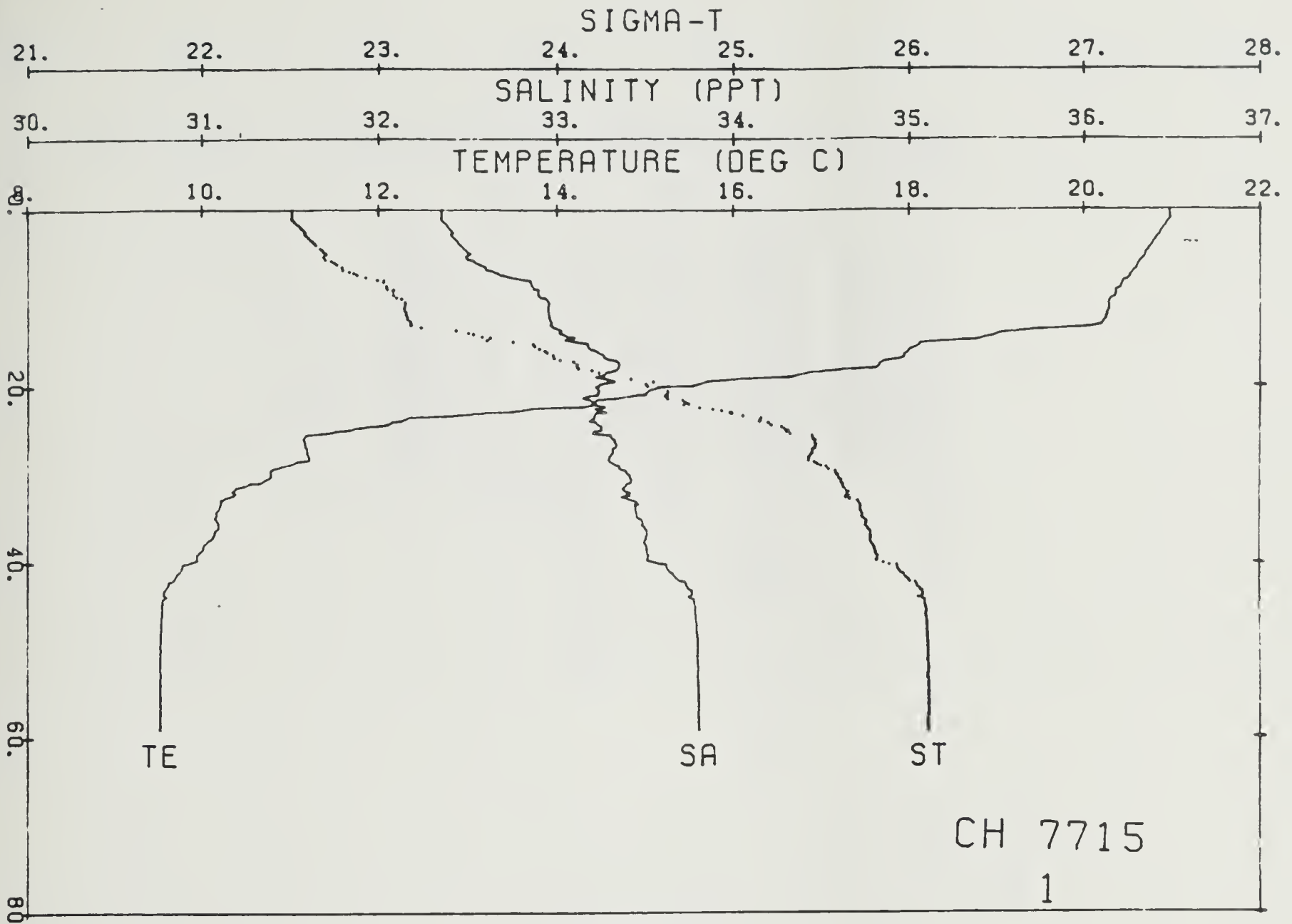
DTH	TEM	SAL	SGT	AND	DYN	SVL	PRS
0	20.972	32.350	22.487	534.6	0.000	1521.7	0.0
5	20.698	32.509	22.681	516.2	.026	1521.2	5.0
10	20.347	32.907	23.076	478.6	.051	1520.8	10.0
15	18.370	33.103	23.730	416.3	.074	1515.6	15.0
20	15.537	33.231	24.491	343.8	.093	1507.2	20.0
25	11.657	33.248	25.293	267.4	.108	1494.5	25.0
30	10.772	33.407	25.576	240.6	.121	1491.6	30.2
35	10.160	33.475	25.735	225.6	.133	1489.6	35.2
40	9.823	33.577	25.871	212.7	.144	1488.6	40.2
45	9.535	33.781	26.078	193.2	.154	1487.9	45.2
50	9.518	33.796	26.092	191.9	.163	1487.9	50.2
55	9.513	33.801	26.097	191.5	.173	1488.0	55.2
60	9.513	33.802	26.098	191.5	.181	1488.0	59.2

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AM
0	20.990	32.345						
4		32.402						
9	19.390	32.964						
23		33.260						
33		33.384						
59		33.755						

SHIP CH CRUISE 77-15 STATION 2 POSITION 39 41.50 N 72 51.80 W
 LOCAL TIME 710 DATE 77/ 9/20 WIND = knots DIR = DEPTH= 70M

DTH	TEM	SAL	SGT	AND	DYN	SVL	PRS
0	20.392	32.454	22.720	512.3	0.000	1520.2	0.0
5	20.319	32.455	22.739	510.6	.026	1520.1	5.0
10	19.734	32.627	23.023	483.7	.050	1518.8	10.0
15	19.586	32.887	23.259	461.3	.074	1518.8	15.0
20	19.164	33.167	23.580	430.7	.096	1518.0	20.0
25	13.709	33.635	25.193	277.0	.114	1501.9	25.0
30	11.110	33.587	25.656	233.0	.127	1493.1	30.2
35	10.205	33.675	25.883	211.5	.138	1490.0	35.2
40	10.017	33.664	25.907	209.4	.149	1489.4	40.2
45	9.416	33.728	26.056	195.2	.159	1487.3	45.2
50	9.301	33.759	26.098	191.3	.169	1487.0	50.2
55	9.301	33.763	26.101	191.1	.178	1487.1	55.2
60	9.303	33.770	26.107	190.7	.188	1487.2	60.2
65	9.301	33.773	26.110	190.5	.198	1487.3	65.4
70	9.302	33.777	26.112	190.3	.206	1487.4	69.8

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AM
0	20.360	32.447						
44	9.340	33.704						
67	9.300	33.722						



SHIP CH CRUISE 77-15 STATION 3 POSITION 39 42.90 N 73 12.70 W
 LOCAL TIME 1107 DATE 77/ 9/20 WIND = knots DIR = DEPTH= 47M

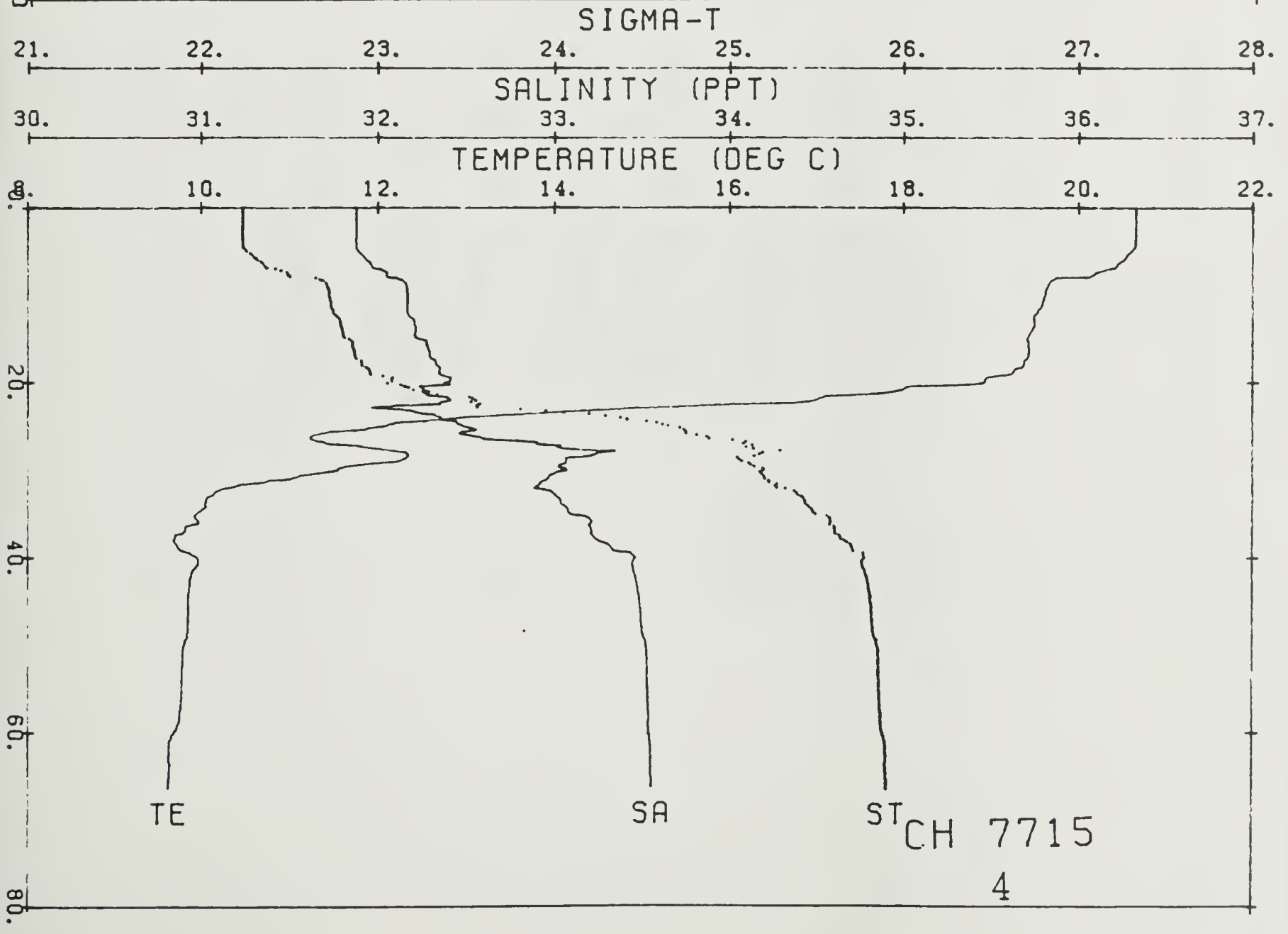
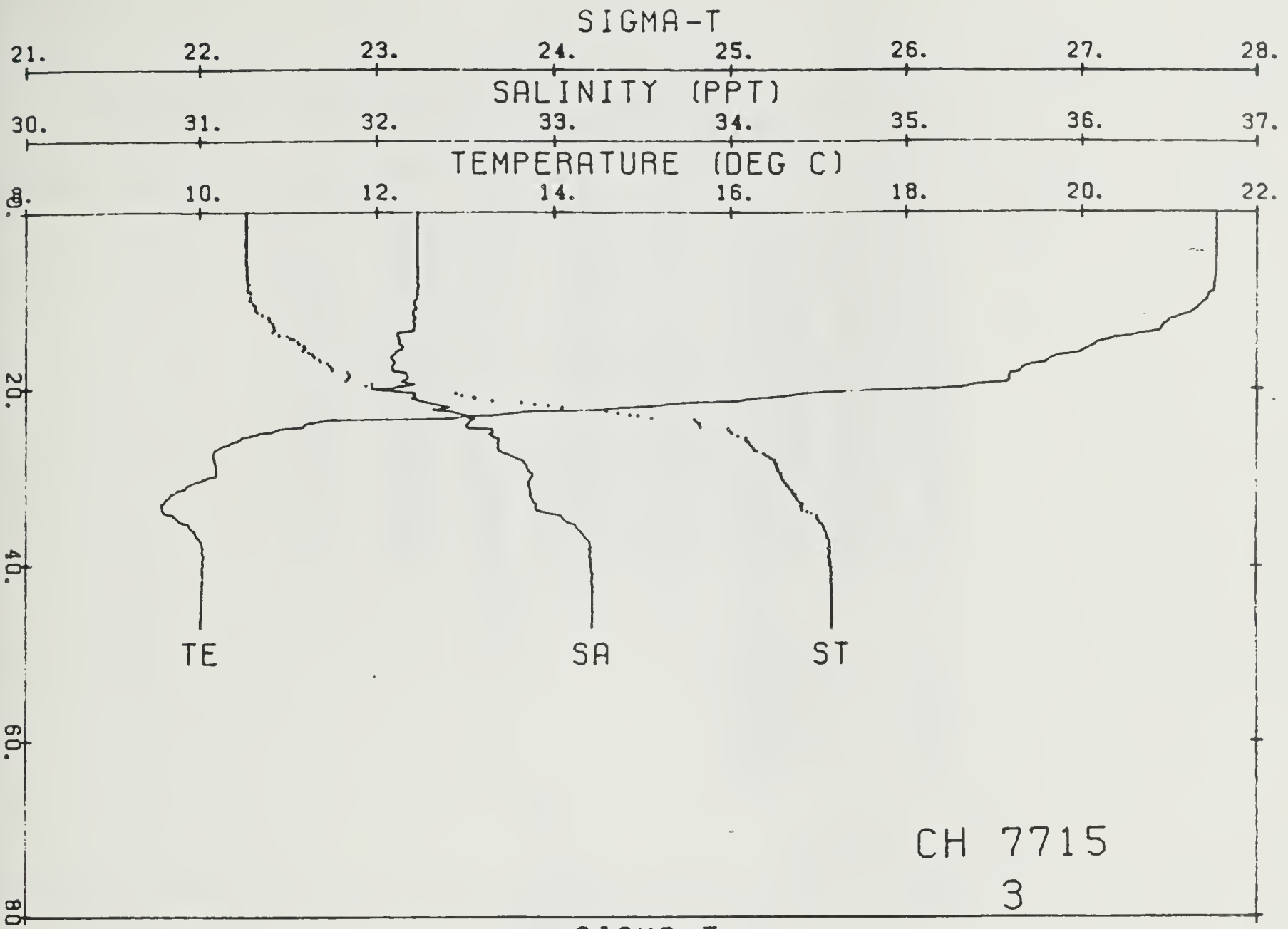
DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	21.531	32.231	22.245	557.7	0.000	1523.0	0.0
5	21.530	32.230	22.245	557.8	.025	1523.1	4.4
5	21.528	32.231	22.246	557.8	.030	1523.1	5.3
8	21.511	32.230	22.250	557.5	.043	1523.1	7.7
10	21.340	32.214	22.284	554.3	.059	1522.7	10.5
14	20.660	32.114	22.390	544.3	.076	1520.8	13.7
17	19.320	32.082	22.713	513.5	.096	1517.1	17.5
20	16.840	32.218	23.418	446.1	.111	1510.1	20.5
40	10.025	33.206	25.548	243.4	.178	1488.8	40.2
45	10.013	33.215	25.557	242.7	.191	1488.9	45.2
47	10.006	33.214	25.557	242.7	.196	1488.9	47.2

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AM
0		32.229						
20		32.190						
45		33.180						

SHIP CH CRUISE 77-15 STATION 4 POSITION 39 54.70 N 73 12.20 W
 LOCAL TIME 1426 DATE 77/ 9/20 WIND = knots DIR = DEPTH= 67M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	20.656	31.878	22.212	560.9	0.000	1520.3	0.0
5	20.604	31.891	22.235	558.8	.028	1520.2	5.0
10	19.608	32.167	22.704	514.1	.055	1517.9	10.0
15	19.397	32.241	22.815	503.7	.080	1517.5	15.0
20	18.908	32.368	23.035	482.8	.105	1516.3	20.0
25	12.065	32.487	24.627	330.9	.125	1494.9	25.0
30	11.400	33.005	25.151	281.0	.141	1493.4	30.2
35	9.920	33.174	25.540	244.1	.154	1488.3	35.2
40	9.969	33.453	25.750	224.2	.166	1488.9	40.2
45	9.851	33.487	25.796	219.9	.177	1488.6	45.2
50	9.796	33.524	25.834	216.4	.188	1488.6	50.2
55	9.776	33.534	25.845	215.5	.199	1488.6	55.2
60	9.663	33.536	25.865	213.6	.210	1488.3	60.2
65	9.627	33.554	25.886	211.8	.220	1488.2	65.2
66	9.624	33.554	25.886	211.8	.223	1488.2	66.4

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AM
0	20.610	31.888						
15		32.434						
27		33.052						
32	9.230	33.406						
44		33.496						
65	9.650	33.501						



SHIP CH CRUISE 77-15 STATION 5 POSITION 40 3.80 N 73 28.10 W
 LOCAL TIME 725 DATE 77/ 9/20 WIND = knots DIR = DEPTH= 79M

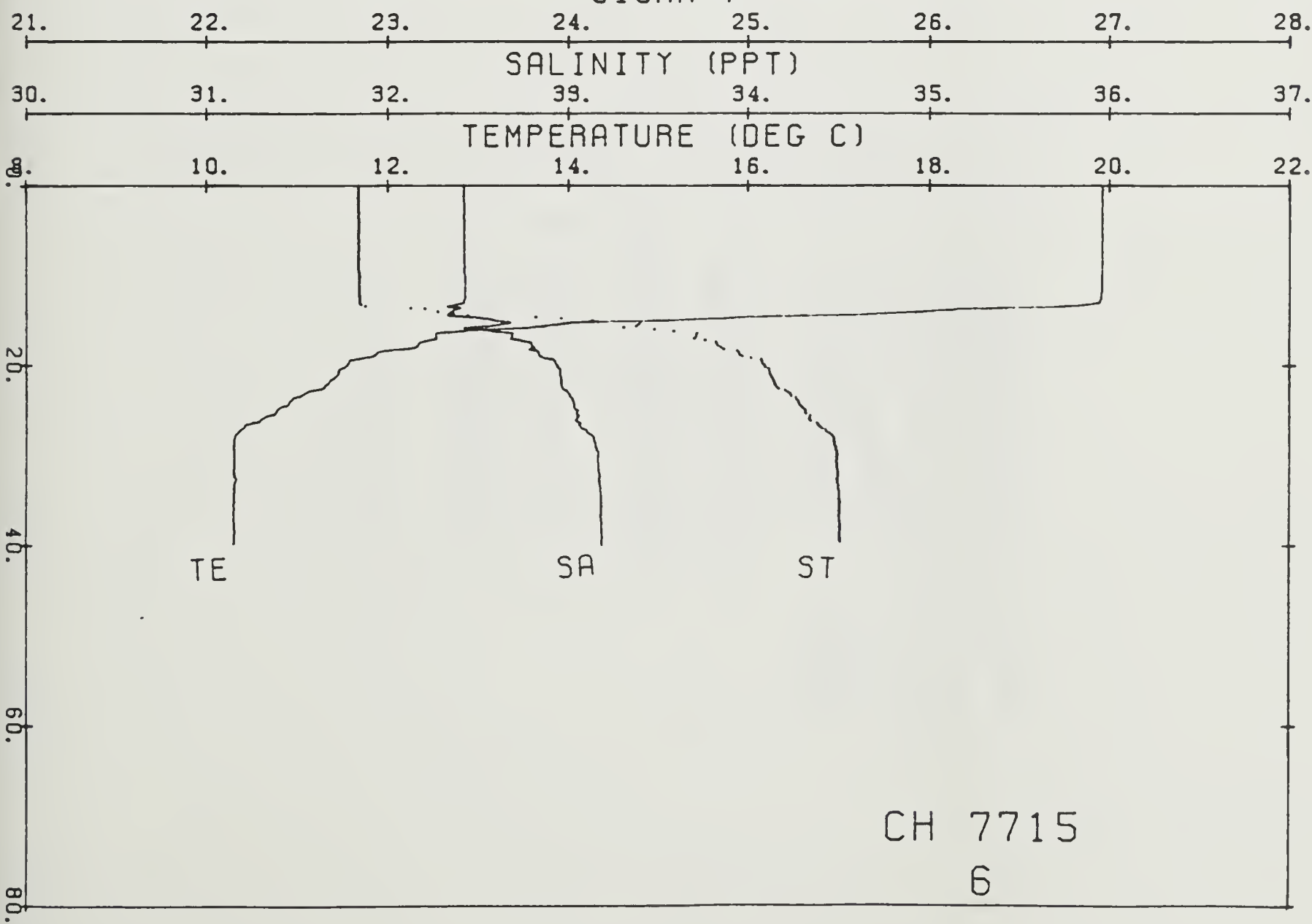
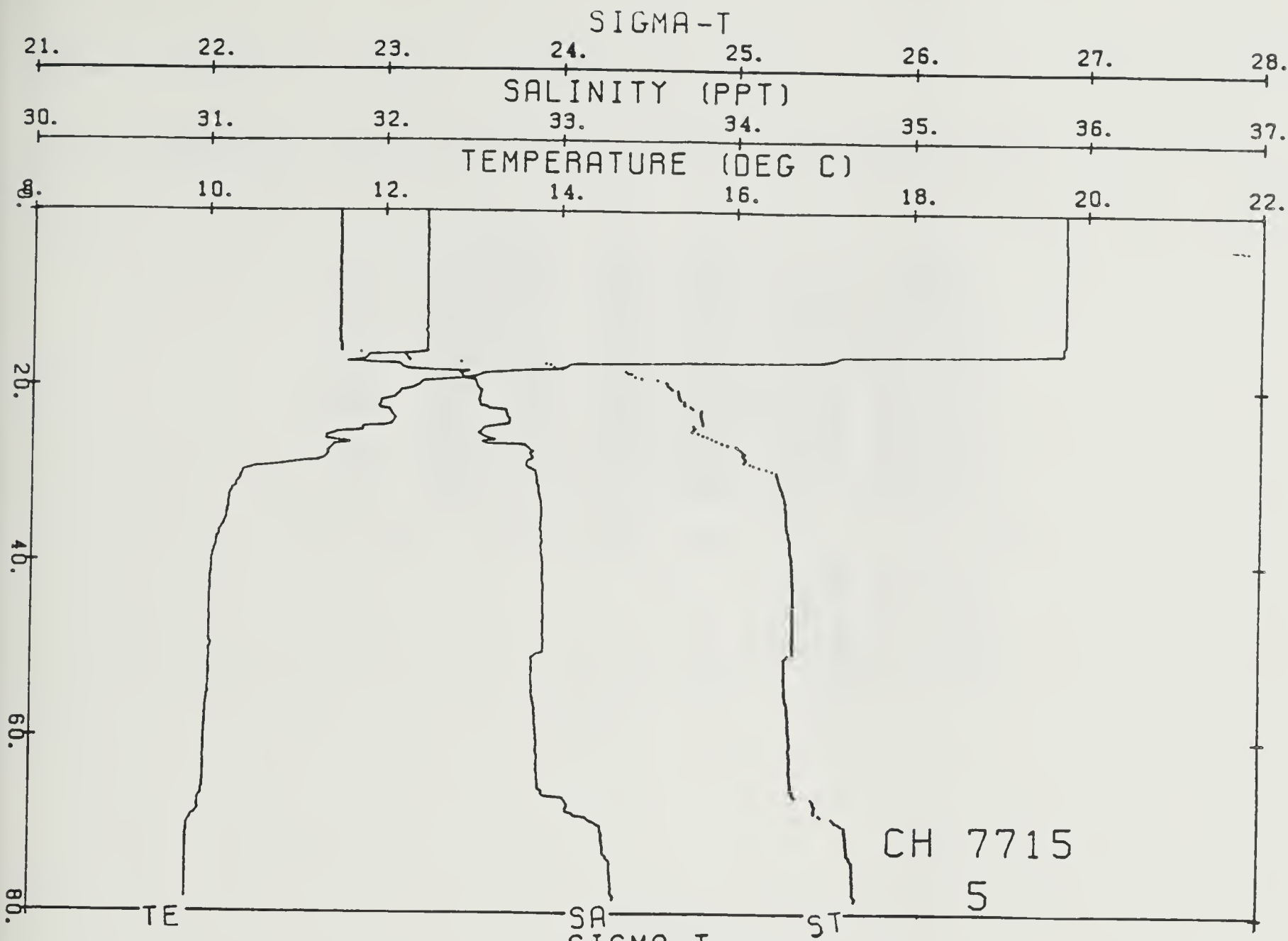
DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	19.750	32.236	22.721	512.2	0.000	1518.2	0.0
5	19.760	32.238	22.720	512.4	.026	1518.3	5.0
10	19.754	32.239	22.722	512.4	.051	1518.4	10.0
15	19.752	32.239	22.723	512.5	.077	1518.5	15.0
20	12.349	32.530	24.606	332.7	.098	1495.9	20.0
25	11.600	32.624	24.818	312.6	.114	1493.5	25.0
30	10.377	32.868	25.224	274.0	.129	1489.5	30.2
35	10.207	32.894	25.274	269.4	.143	1489.0	35.2
40	10.053	32.907	25.309	266.1	.156	1488.6	40.2
45	10.032	32.913	25.317	265.4	.170	1488.6	45.2
50	10.029	32.913	25.318	265.4	.183	1488.6	50.2
55	10.015	32.854	25.274	269.7	.196	1488.6	55.2
60	9.979	32.881	25.302	267.2	.210	1488.6	60.2
65	9.970	32.893	25.312	266.3	.223	1488.6	65.2
70	9.795	33.257	25.626	236.6	.236	1488.5	70.4
75	9.786	33.315	25.673	232.2	.248	1488.7	75.4
78	9.787	33.331	25.685	231.1	.255	1488.7	78.4

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AM
0		32.332						
4	19.780	32.231						
22		32.591						
32		32.847						
52	10.010	32.873						
78		33.262						

SHIP CH CRUISE 77-15 STATION 6 POSITION 40 7.70 N 73 10.00 W
 LOCAL TIME 1105 DATE 77/ 9/21 WIND = knots DIR = DEPTH= 41M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	19.922	32.422	22.818	502.9	0.000	1518.9	0.0
5	19.921	32.425	22.820	502.8	.025	1519.0	5.0
10	19.915	32.429	22.825	502.5	.050	1519.1	10.0
15	15.041	32.602	24.116	379.4	.072	1504.8	15.0
20	11.547	32.940	25.074	288.1	.089	1493.6	20.0
25	10.777	33.051	25.298	267.0	.103	1491.1	25.2
30	10.310	33.167	25.469	250.7	.116	1489.7	30.2
35	10.303	33.187	25.485	249.3	.129	1489.7	35.2
40	10.302	33.189	25.488	249.2	.141	1489.8	40.0

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AM
0	19.900	32.459						
10		32.422						
21		32.413						
31	10.280	33.113						
36		33.152						
40	10.300	33.157						



SHIP CH CRUISE 77-15 STATION 7 POSITION 40 8.50 N 72 46.10 W
 LOCAL TIME 1436 DATE 77/ 9/21 WIND = knots DIR = DEPTH= 56M

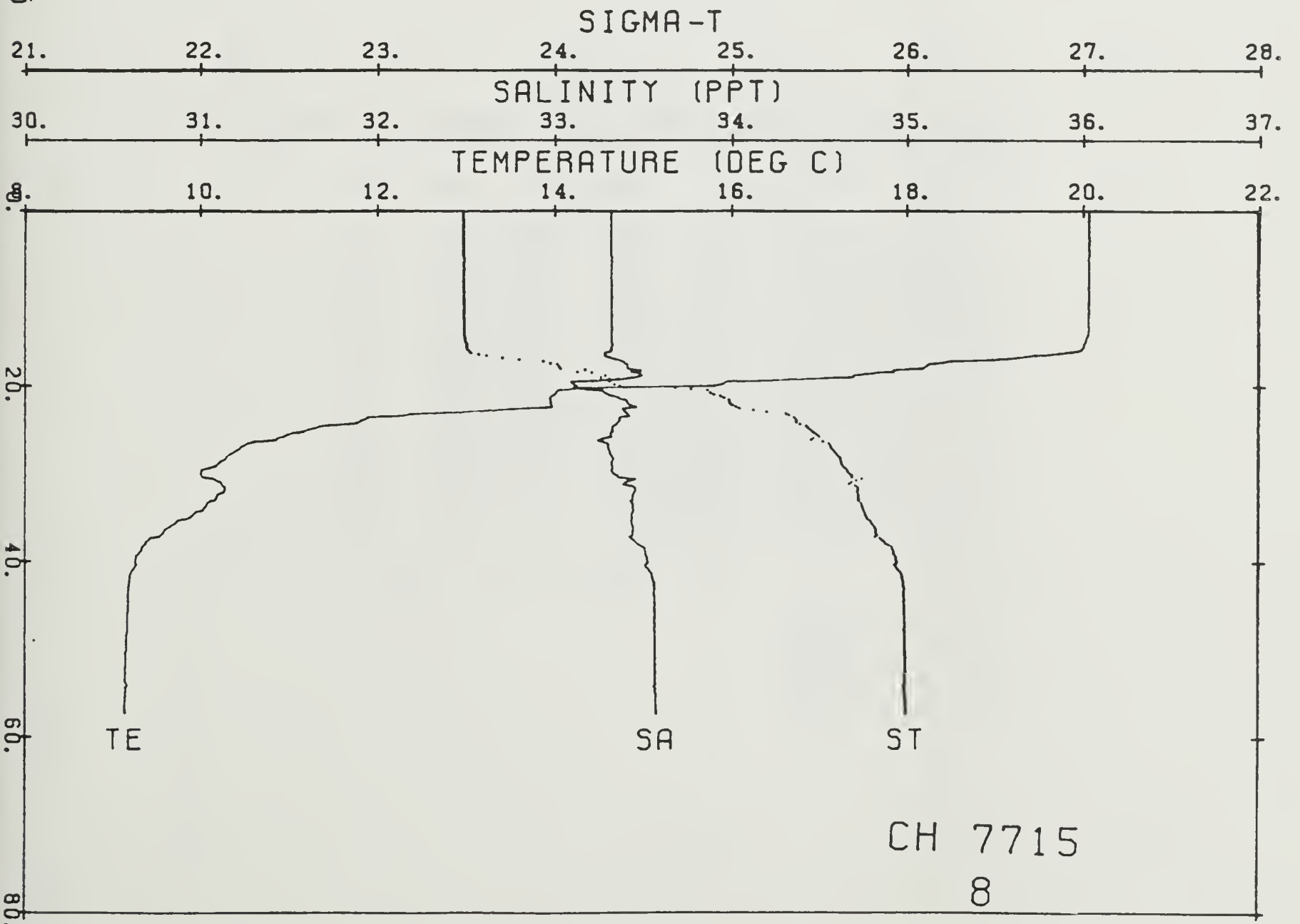
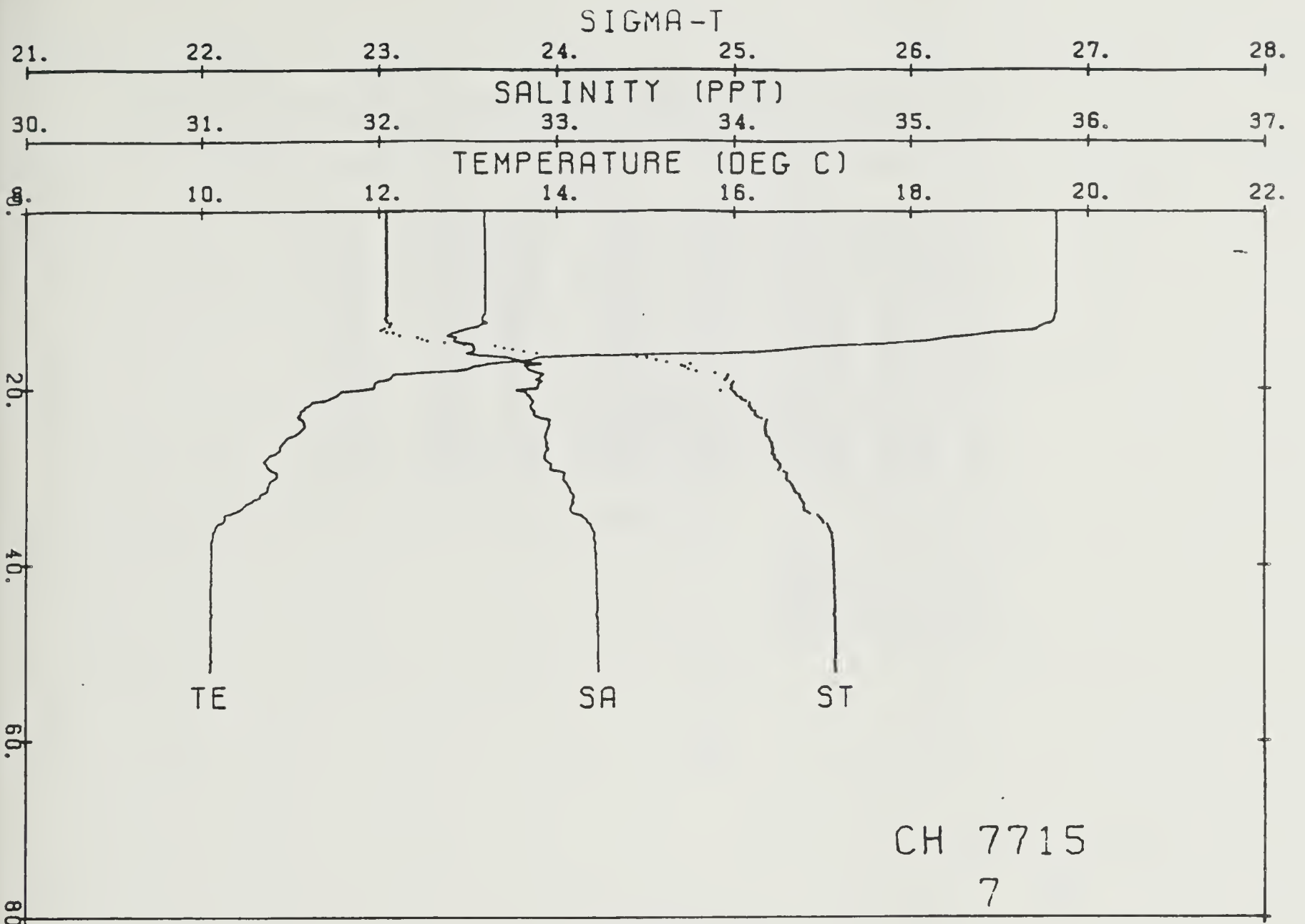
DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	19.643	32.595	23.022	483.4	0.000	1518.3	0.0
5	19.645	32.597	23.023	483.5	.024	1518.4	5.0
10	19.646	32.598	23.023	483.6	.048	1518.5	10.0
15	17.672	32.528	23.460	442.0	.071	1512.8	15.0
20	11.940	32.884	24.958	299.2	.090	1494.9	20.0
25	11.070	32.939	25.159	280.2	.105	1492.0	25.2
30	10.829	33.037	25.278	269.0	.119	1491.4	30.2
35	10.237	33.173	25.486	249.2	.132	1489.5	35.2
40	10.106	33.222	25.547	243.6	.144	1489.1	40.2
45	10.100	33.231	25.554	242.9	.156	1489.2	45.2
50	10.097	33.236	25.559	242.6	.168	1489.3	50.2
52	10.095	33.238	25.561	242.4	.173	1489.3	52.2

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AM
0	19.560	32.591						
12		32.574						
24		32.994						
33	10.850	32.954						
49		33.211						

SHIP CH CRUISE 77-15 STATION 8 POSITION 39 53.30 N 72 41.60 W
 LOCAL TIME 1737 DATE 77/ 9/21 WIND = knots DIR = DEPTH= 58M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	20.066	33.315	23.461	441.5	0.000	1520.3	0.0
5	20.067	33.319	23.463	441.4	.022	1520.4	5.0
10	20.066	33.320	23.465	441.5	.044	1520.5	10.0
15	20.026	33.321	23.476	440.5	.066	1520.5	15.0
20	15.814	33.125	24.349	357.4	.086	1508.0	20.0
25	11.181	33.325	25.439	253.5	.102	1492.9	25.2
30	10.014	33.355	25.666	232.0	.114	1488.8	30.2
35	9.819	33.435	25.760	223.1	.126	1488.3	35.2
40	9.246	33.529	25.928	207.3	.136	1486.4	40.2
45	9.167	33.568	25.971	203.3	.147	1486.2	45.2
50	9.148	33.571	25.976	202.9	.157	1486.2	50.2
55	9.135	33.577	25.983	202.3	.167	1486.3	55.2
57	9.134	33.578	25.984	202.3	.171	1486.3	57.3

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AM
0	20.040	33.326						
13		33.377						
30		33.358						
41	9.200	33.536						
57	9.140	33.549						



SHIP CH CRUISE 77-15 STATION 9 POSITION 39 47.90 N 72 45.90 W
 LOCAL TIME 358 DATE 77/ 9/22 WIND = knots DIR = DEPTH= 60M

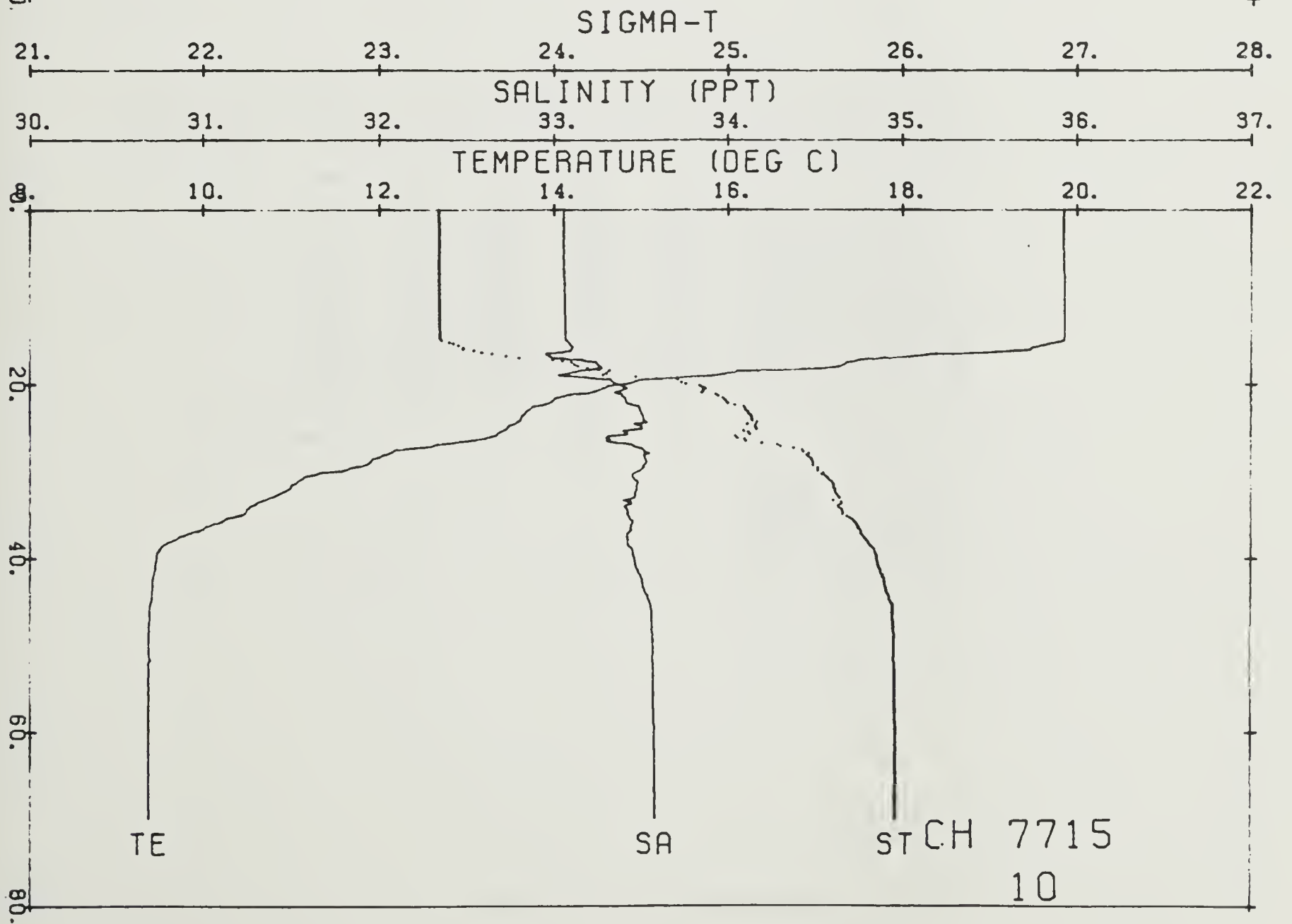
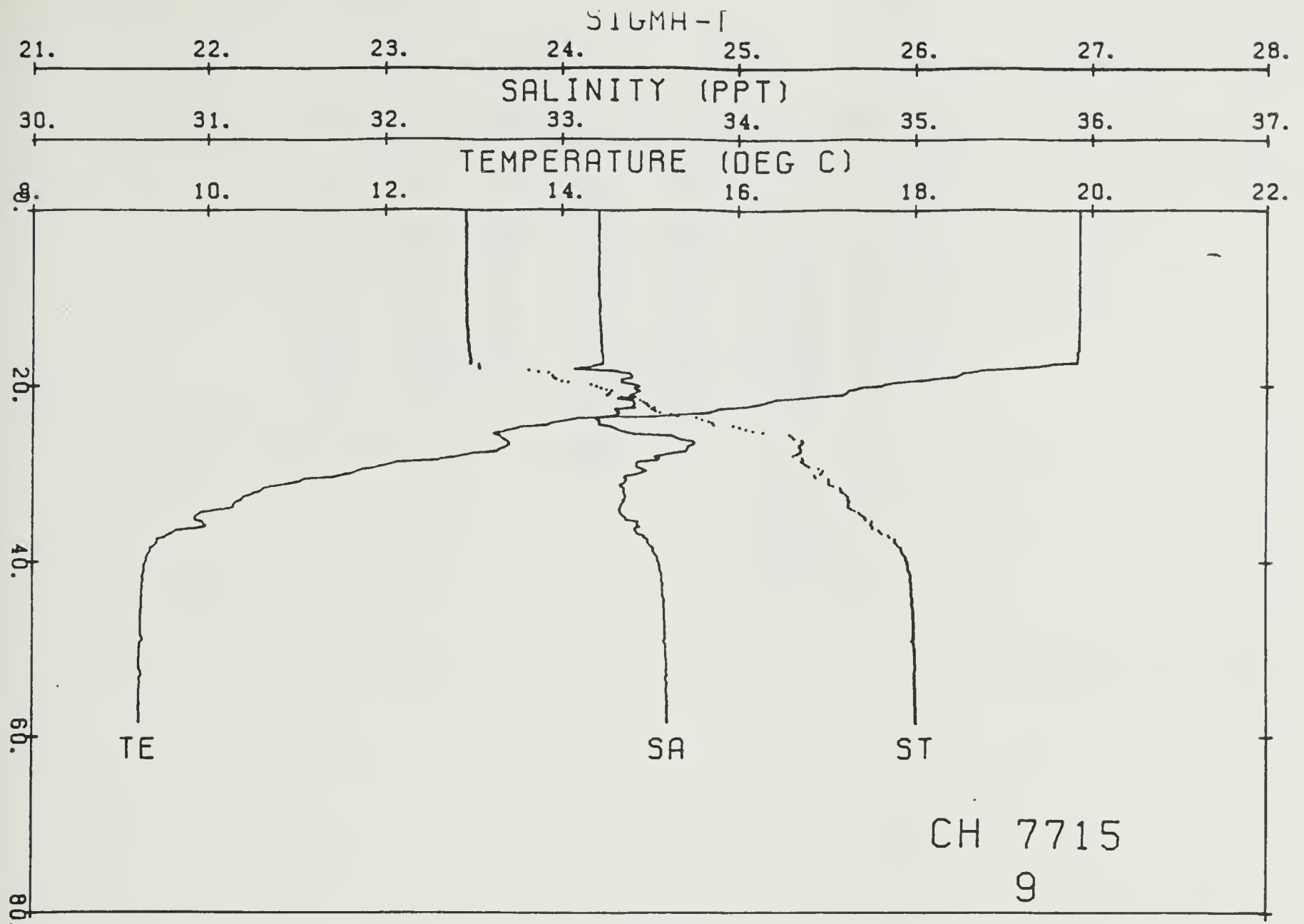
DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	19.863	33.209	23.433	444.1	0.000	1519.7	0.0
5	19.865	33.213	23.435	444.1	.022	1519.7	5.0
10	19.864	33.215	23.437	444.1	.044	1519.8	10.0
15	19.856	33.225	23.447	443.3	.067	1519.9	15.0
20	17.605	33.443	24.176	373.8	.087	1513.8	20.0
25	13.286	33.359	25.065	289.2	.104	1500.2	25.2
30	11.490	33.359	25.410	256.5	.118	1494.1	30.2
35	9.853	33.363	25.699	229.0	.130	1488.3	35.2
40	9.290	33.550	25.937	206.4	.141	1486.6	40.2
45	9.243	33.580	25.968	203.5	.151	1486.5	45.2
50	9.226	33.592	25.980	202.5	.161	1486.5	50.2
55	9.220	33.597	25.985	202.1	.171	1486.6	55.2
58	9.222	33.602	25.989	201.8	.178	1486.7	58.3

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AM
0	19.840	33.209						
29		33.484						
40	9.320	33.498						
58	9.230	33.559						

SHIP CH CRUISE 77-15 STATION 10 POSITION 39 41.80 N 72 51.60 W
 LOCAL TIME 640 DATE 77/ 9/22 WIND = knots DIR = DEPTH= 71M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	19.852	33.054	23.318	455.1	0.000	1519.4	0.0
5	19.849	33.056	23.320	455.1	.023	1519.5	5.0
10	19.861	33.062	23.321	455.1	.046	1519.6	10.0
15	19.845	33.070	23.332	454.3	.068	1519.7	15.0
20	14.835	33.351	24.738	320.3	.088	1505.2	20.0
25	13.440	33.501	25.144	281.7	.103	1500.9	25.2
30	11.320	33.469	25.526	245.3	.116	1493.7	30.2
35	10.356	33.427	25.664	232.3	.128	1490.2	35.2
40	9.464	33.459	25.838	215.8	.140	1487.1	40.2
45	9.400	33.549	25.918	208.3	.150	1487.1	45.2
50	9.375	33.568	25.937	206.6	.161	1487.1	50.2
55	9.374	33.569	25.938	206.6	.171	1487.1	55.2
60	9.371	33.576	25.944	206.1	.181	1487.2	60.2
65	9.371	33.577	25.945	206.2	.192	1487.3	65.4
70	9.373	33.579	25.947	206.1	.201	1487.4	70.0

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AM
0	19.850	33.076						
23		33.531						
39	9.750	33.469						
55		33.548						
68	9.370	33.543						



SHIP CH CRUISE 77-15 STATION 11 POSITION 39 42.90 N 73 12.90 W
 LOCAL TIME 1000 DATE 77/ 9/22 WIND = knots DIR = DEPTH= 44M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	19.594	32.446	22.921	493.1	0.000	1518.0	0.0
5	19.592	32.446	22.921	493.2	.025	1518.1	5.0
10	19.595	32.454	22.926	492.9	.049	1518.2	10.0
15	19.534	32.361	22.871	498.3	.074	1518.0	15.0
20	10.495	32.834	25.178	278.3	.093	1489.7	20.0
25	9.751	33.306	25.671	231.4	.106	1487.7	25.0
30	9.687	33.297	25.675	231.1	.118	1487.5	30.2
35	9.694	33.297	25.673	231.4	.130	1487.7	35.2
40	9.685	33.313	25.688	230.1	.141	1487.7	40.0

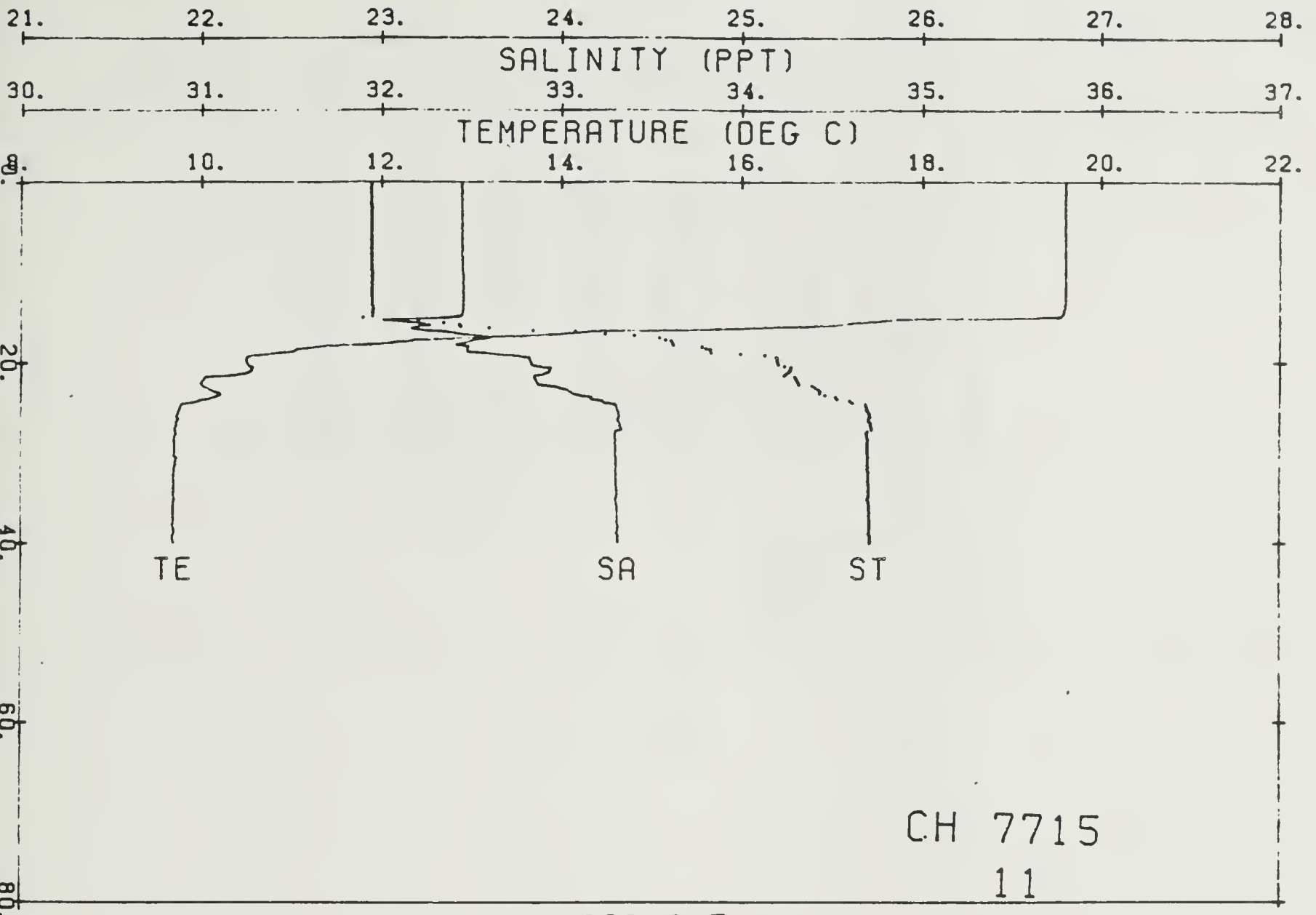
DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AM
0	19.590	32.454						
14		32.456						
20		32.705						
25	9.920	33.026						
41		33.283						

SHIP CH CRUISE 77-15 STATION 12 POSITION 39 38.30 N 73 8.50 W
 LOCAL TIME 1236 DATE 77/ 9/22 WIND = knots DIR = DEPTH= 42M

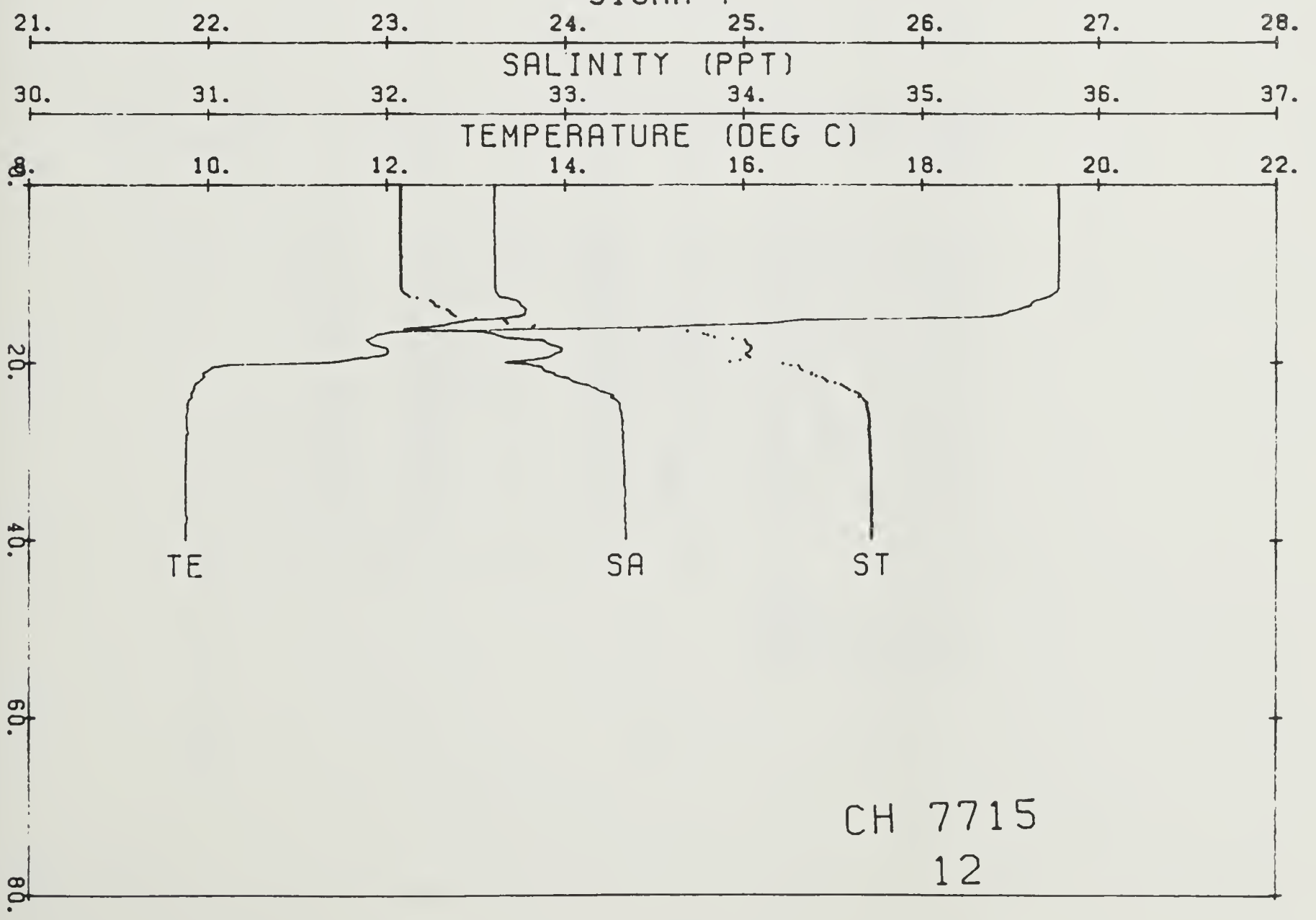
DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	19.538	32.607	23.058	480.0	0.000	1518.0	0.0
5	19.543	32.605	23.055	480.4	.024	1518.1	5.0
10	19.540	32.609	23.059	480.2	.048	1518.2	10.0
15	17.984	32.655	23.482	439.9	.071	1513.9	15.0
20	11.344	32.666	24.897	305.0	.090	1492.6	20.0
25	9.765	33.308	25.671	231.5	.104	1487.8	25.2
30	9.752	33.328	25.688	229.9	.115	1487.8	30.2
35	9.746	33.340	25.698	229.0	.127	1487.9	35.2
40	9.743	33.344	25.702	228.7	.138	1488.0	40.0

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AM
0	19.450	32.603						
10		32.607						
22		32.853						
24	9.970	32.861						
40	9.740	33.315						

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SHIP CH CRUISE 77-15 STATION 13 POSITIDN 39 30.80 N 72 54.40 W
 LOCAL TIME 1521 DATE 77/ 9/22 WIND = knots DIR = DEPTH= 60M

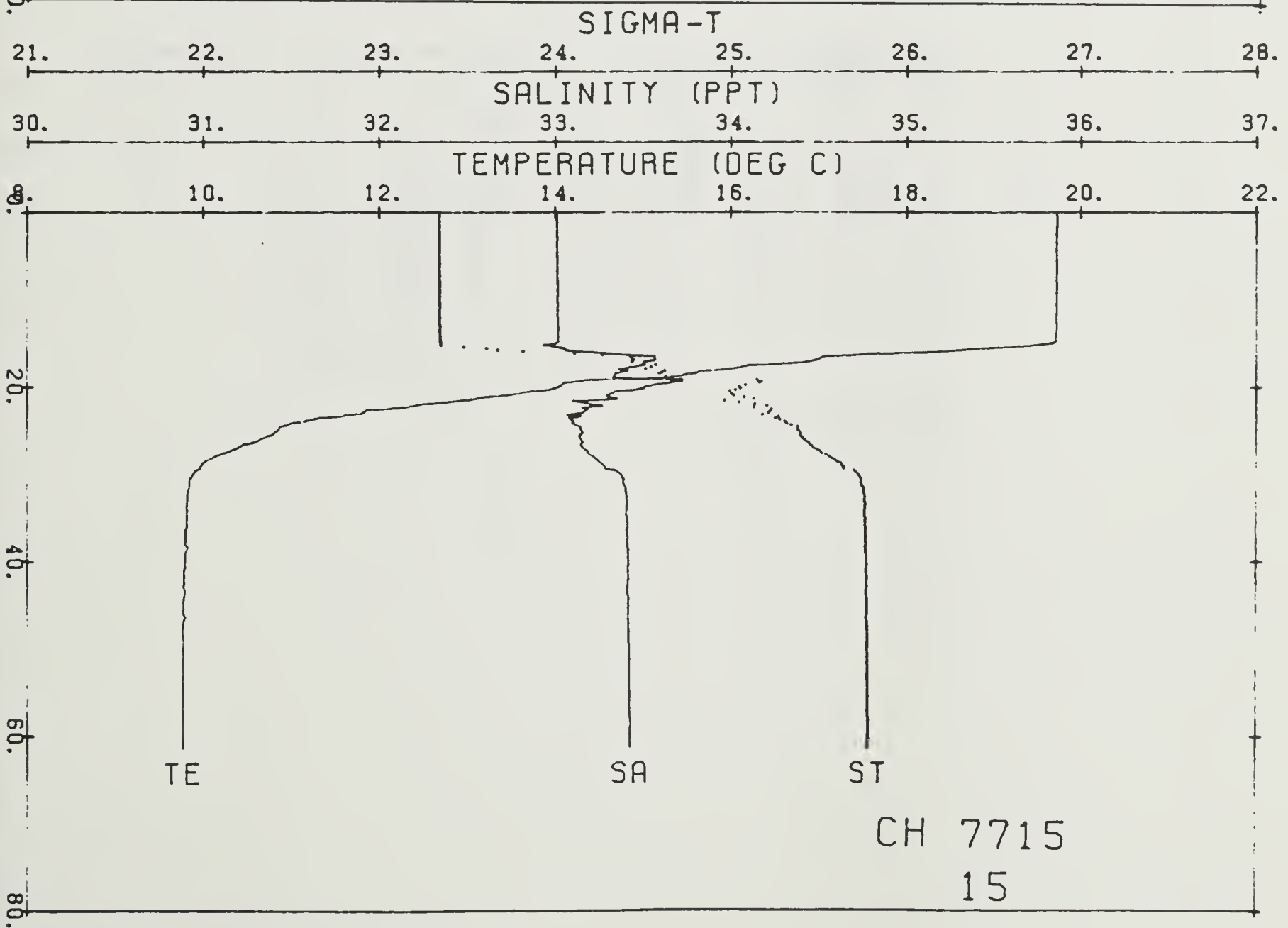
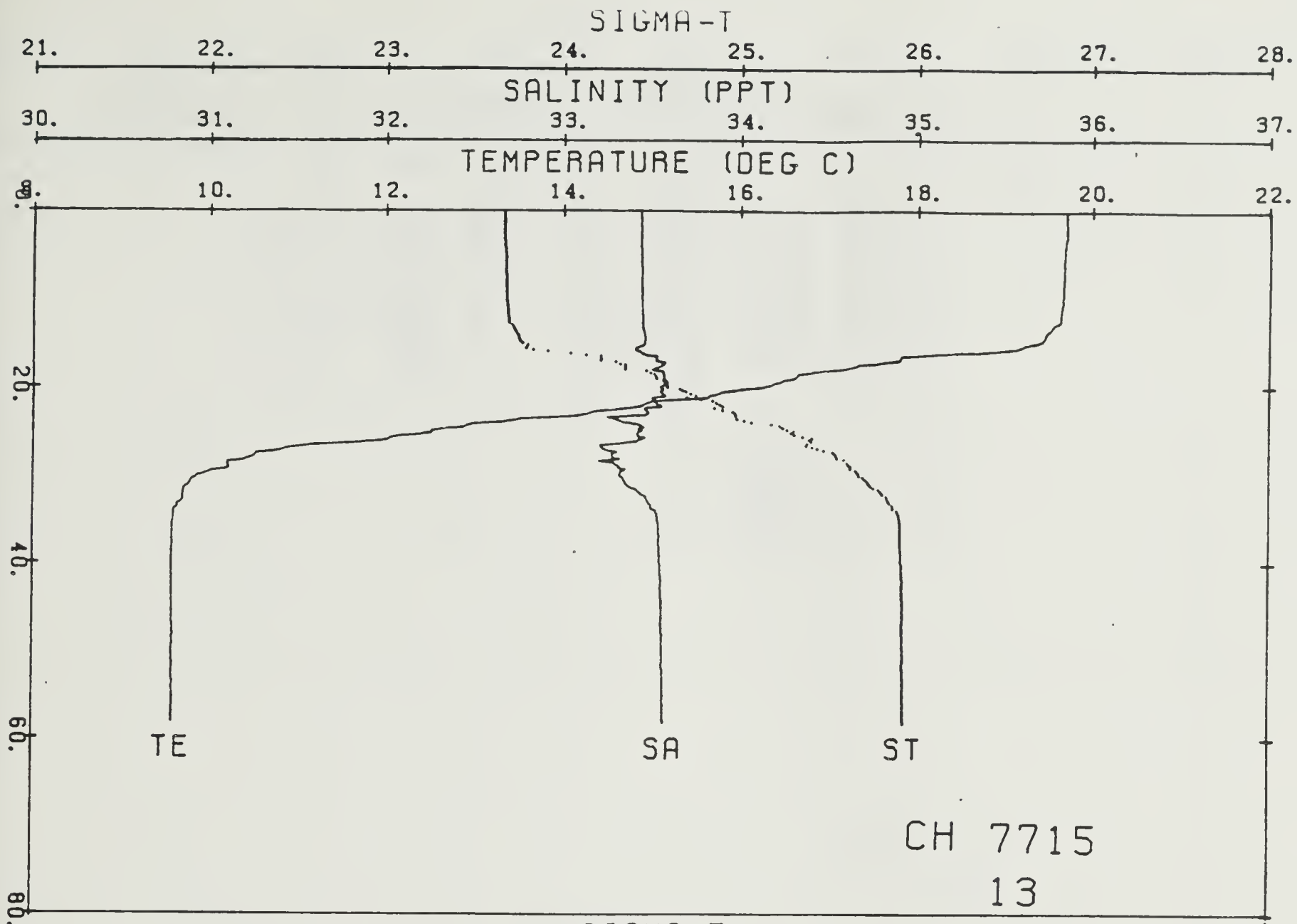
DTH	TEM	SAL	SGT	AND	DYN	SVL	PRS
0	19.698	33.435	23.648	423.6	0.000	1519.5	0.0
5	19.675	33.438	23.656	423.0	.021	1519.5	5.0
10	19.657	33.443	23.664	422.4	.042	1519.5	10.0
15	19.350	33.456	23.754	414.0	.063	1518.8	15.0
20	16.244	33.546	24.575	335.8	.082	1509.8	20.0
25	12.516	33.417	25.262	270.5	.098	1497.7	25.2
30	9.851	33.328	25.672	231.4	.110	1488.2	30.2
35	9.580	33.536	25.879	211.8	.121	1487.5	35.2
40	9.568	33.552	25.894	210.5	.132	1487.6	40.2
45	9.576	33.563	25.901	210.0	.142	1487.7	45.2
50	9.576	33.566	25.903	209.8	.153	1487.8	50.2
55	9.583	33.572	25.906	209.6	.163	1487.9	55.2
58	9.581	33.574	25.909	209.5	.170	1488.0	58.2

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AM
0	19.680	33.467						
20		33.620						
35		33.486						
40		33.556						
58	9.580	33.559						

SHIP CH CRUISE 77-15 STATION 15 POSITIDN 39 22.90 N 73 8.70 W
 LOCAL TIME 2217 DATE 77/ 9/22 WIND = knots DIR = DEPTH= 62M

DTH	TEM	SAL	SGT	AND	DYN	SVL	PRS
0	19.714	33.010	23.320	454.9	0.000	1519.0	0.0
5	19.717	33.012	23.321	455.0	.023	1519.1	5.0
10	19.720	33.014	23.321	455.2	.046	1519.2	10.0
15	19.673	33.009	23.330	454.5	.068	1519.1	15.0
20	14.045	33.509	25.026	292.8	.087	1502.8	20.0
25	10.810	33.156	25.374	259.8	.101	1491.4	25.2
30	9.875	33.382	25.710	227.8	.113	1488.3	30.2
35	9.813	33.413	25.745	224.6	.125	1488.2	35.2
40	9.797	33.418	25.751	224.1	.136	1488.3	40.2
45	9.775	33.421	25.757	223.7	.147	1488.3	45.2
50	9.776	33.425	25.760	223.5	.158	1488.4	50.2
55	9.772	33.426	25.762	223.4	.170	1488.4	55.2
60	9.776	33.428	25.763	223.4	.181	1488.5	60.2
61	9.772	33.430	25.764	223.3	.183	1488.5	61.4

DTH	TEM	SAL	DXG	PHOS	NITR	SIL	ND2	AM
0		33.063						
35	9.800	33.425						
42	9.770	33.427						
60	9.770	33.425						



SHIP CH CRUISE 77-15 STATION 16 POSITION 39 31.00 N 73 25.90 W
 LOCAL TIME 54 DATE 77/ 9/23 WIND = knots DIR = ° DEPTH= 35M

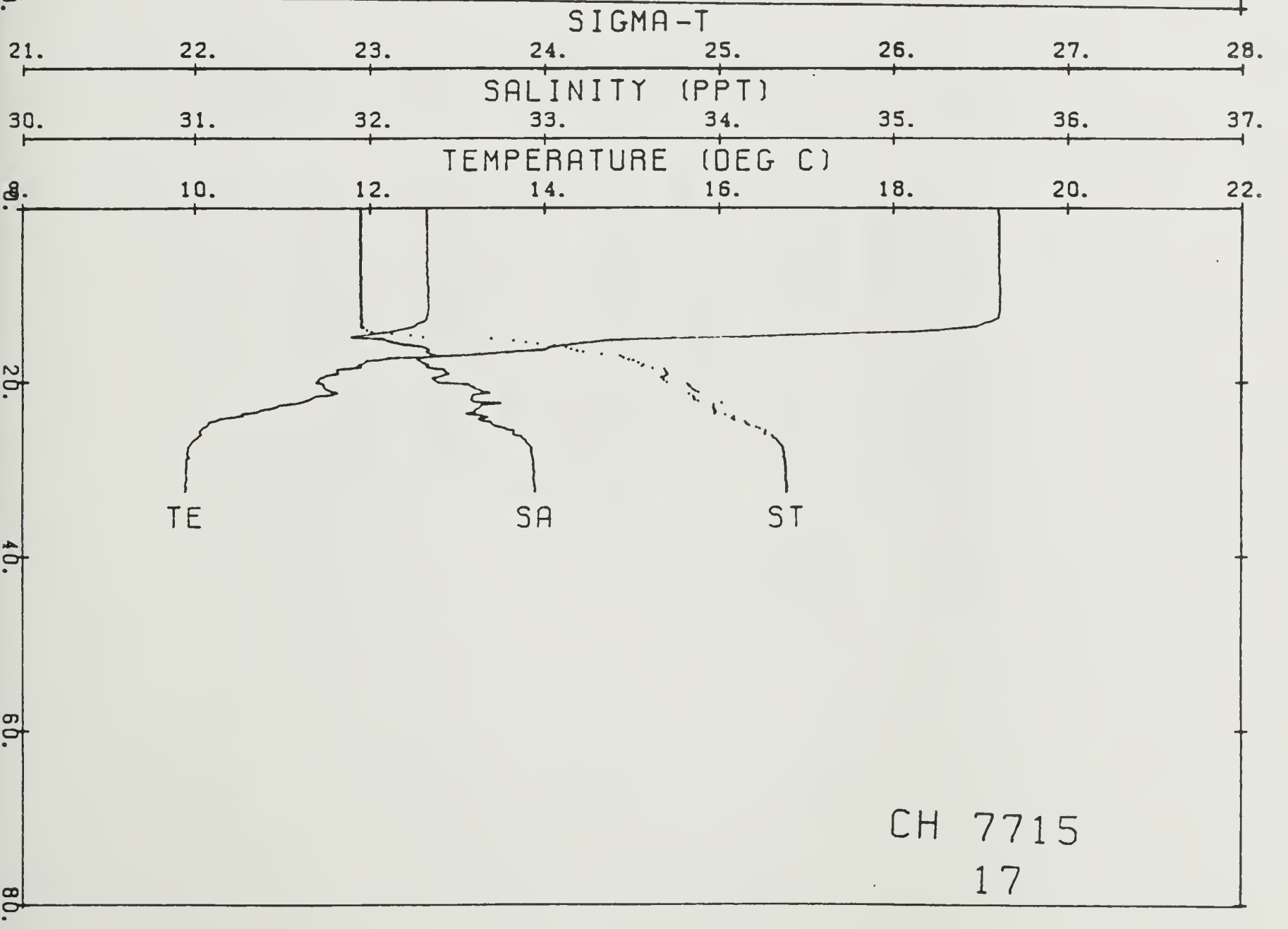
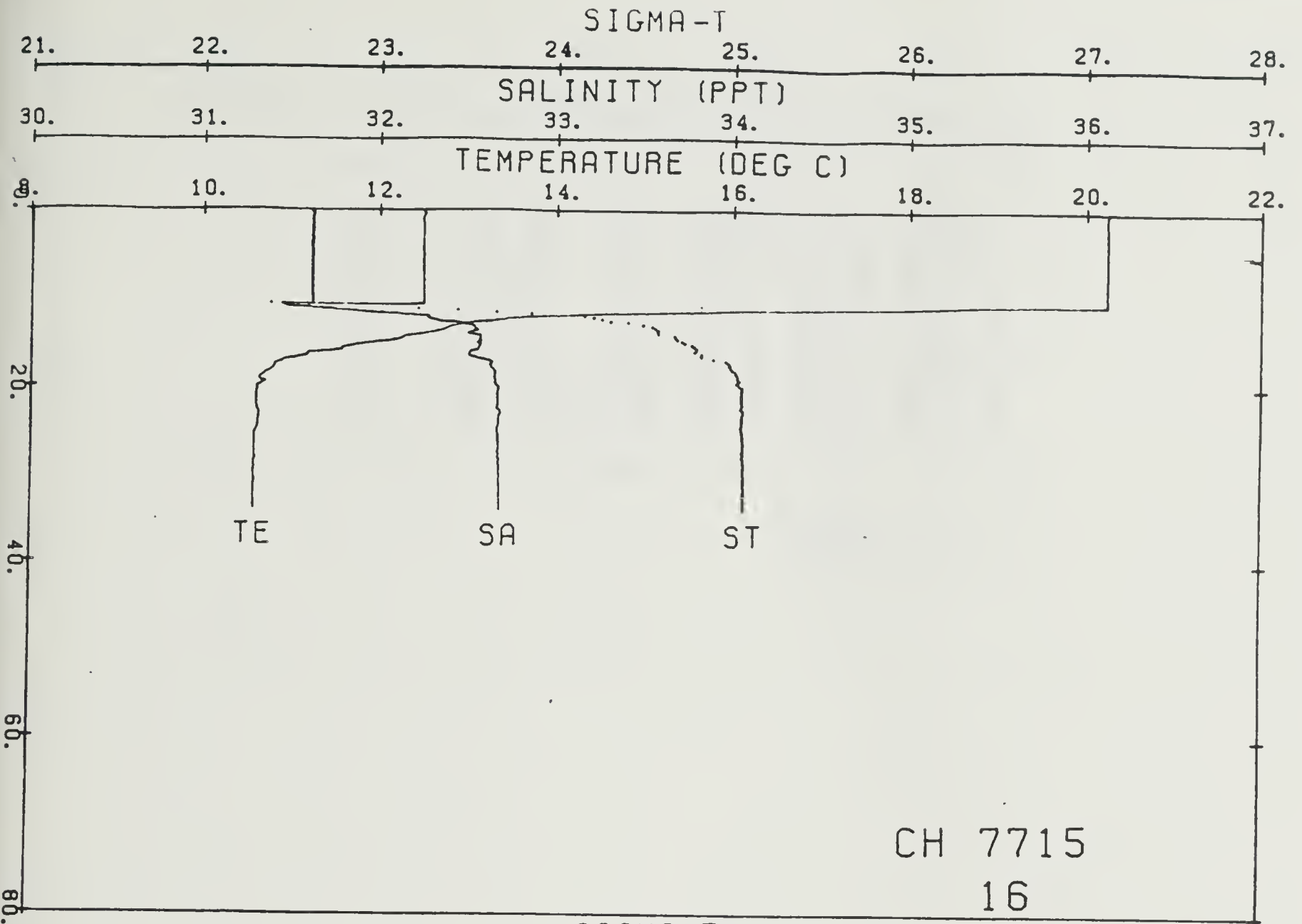
DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	20.239	32.255	22.608	523.0	0.000	1519.6	0.0
5	20.246	32.248	22.601	523.8	.026	1519.7	5.0
6	20.247	32.248	22.601	523.8	.030	1519.7	5.8
8	20.245	32.248	22.601	523.9	.040	1519.7	7.7
20	10.614	32.676	25.034	291.9	.091	1490.0	20.2
25	10.604	32.669	25.030	292.4	.105	1490.0	25.0
30	10.581	32.679	25.042	291.4	.121	1490.0	30.2
34	10.583	32.682	25.044	291.3	.132	1490.1	34.0

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AM
0		32.304						
10		32.302						
21	10.840	32.684						
31		32.696						
34	10.590	32.694						

SHIP CH CRUISE 77-15 STATION 17 POSITION 39 41.80 N 73 26.60 W
 LOCAL TIME 344 DATE 77/ 9/23 WIND = knots DIR = ° DEPTH= 34M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	19.214	32.325	22.925	492.6	0.000	1516.8	0.0
5	19.223	32.326	22.924	493.0	.025	1516.9	5.0
6	19.223	32.330	22.927	492.7	.029	1516.9	5.8
8	19.219	32.327	22.926	492.9	.038	1516.9	7.7
20	11.481	32.567	24.796	314.6	.088	1492.9	20.2
25	10.091	32.761	25.190	277.2	.103	1488.3	25.2
30	9.897	32.940	25.361	261.0	.117	1487.9	30.2
32	9.892	32.944	25.365	260.6	.123	1487.9	32.6

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AM
0	19.120	32.324						
25	10.820	32.735						
33	9.890	32.946						



SHIP CH CRUISE 77-15 STATION 18 POSITION 39 51.00 N 73 13.30 W
 LOCAL TIME 620 DATE 77/ 9/23 WIND = knots DIR = DEPTH= 49M

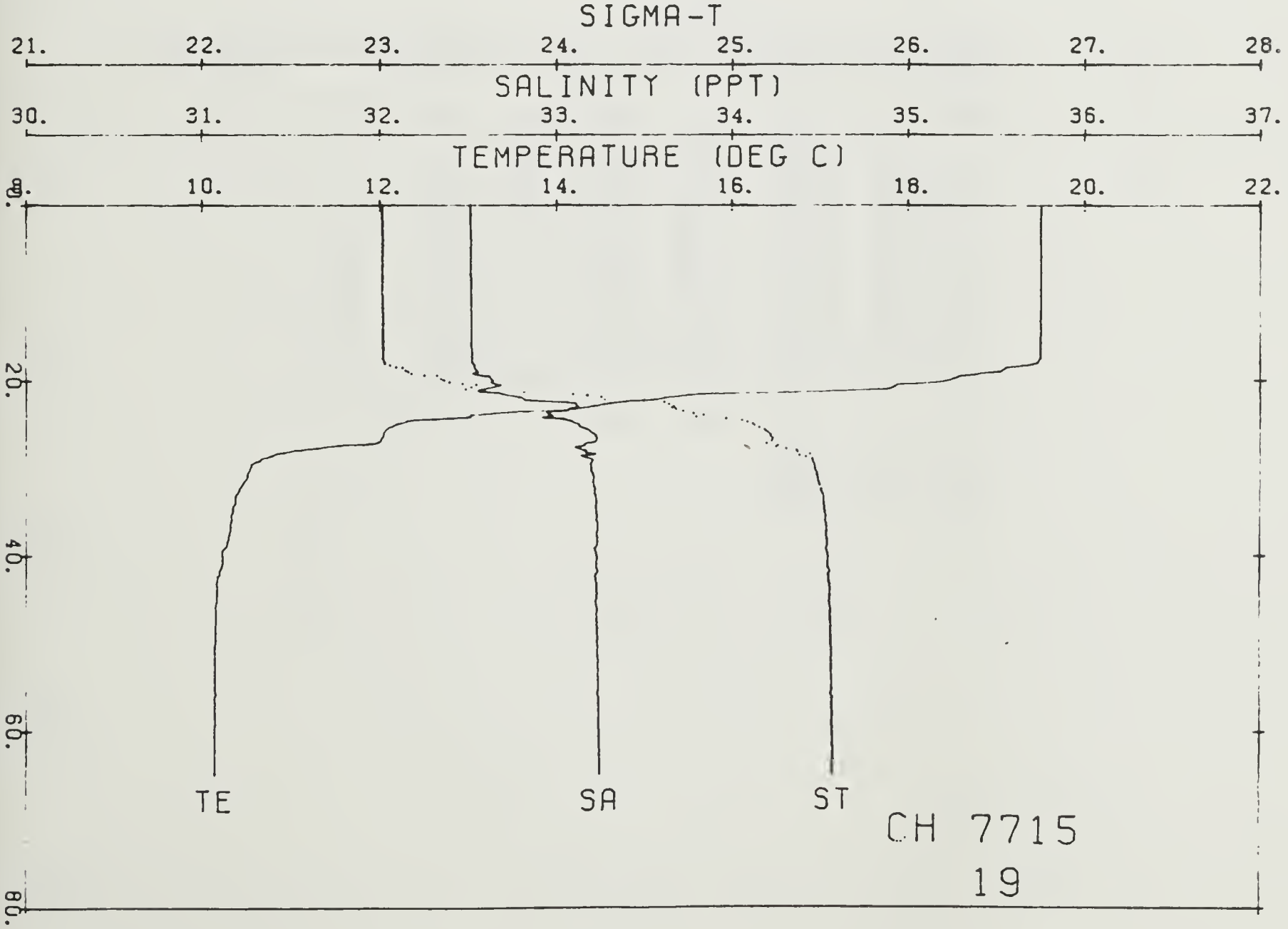
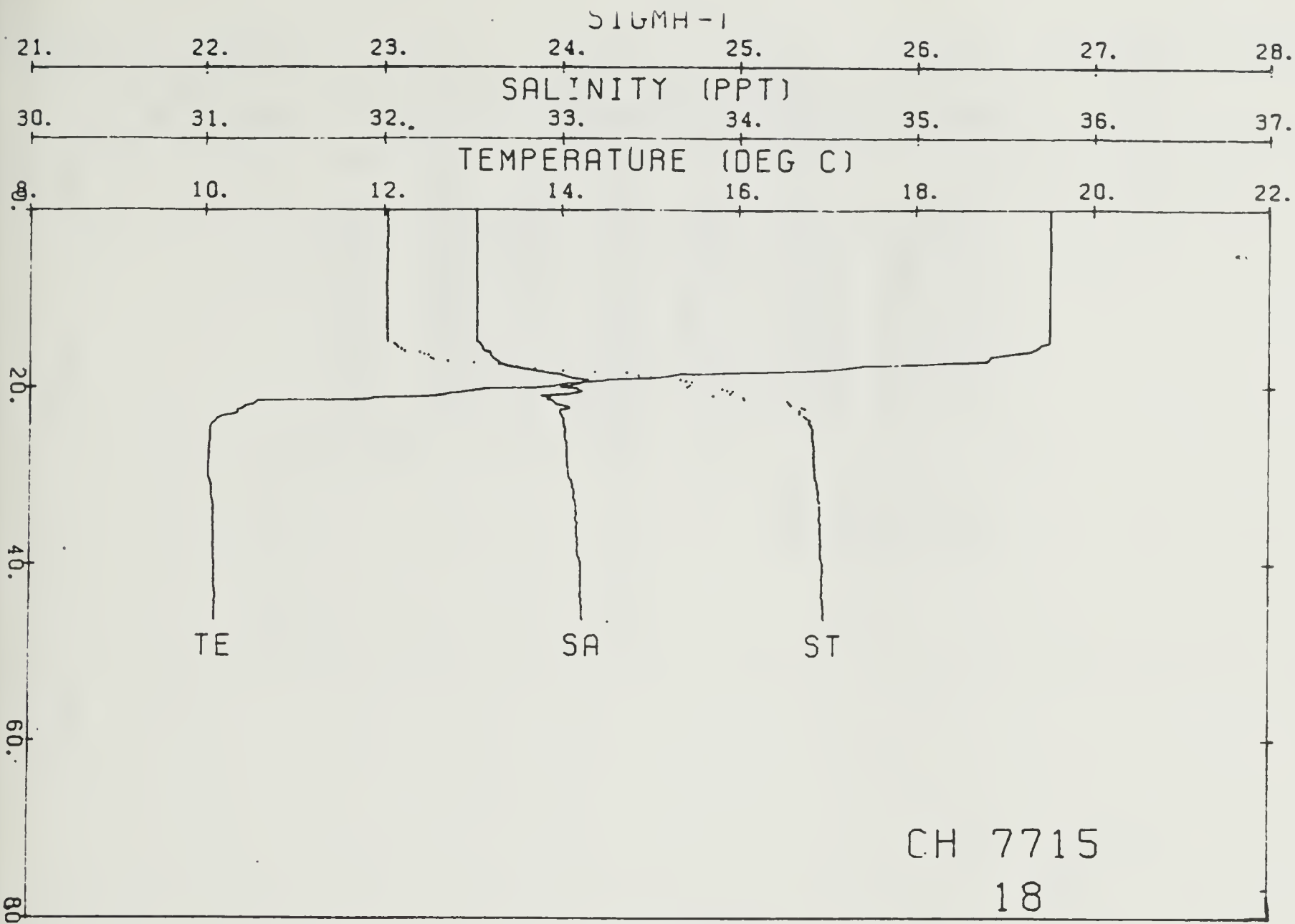
DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	19.500	32.519	23.000	485.5	0.000	1517.8	0.0
5	19.504	32.519	23.000	485.7	.024	1517.9	5.0
10	19.500	32.523	23.004	485.5	.049	1518.0	10.0
15	19.495	32.505	22.991	486.8	.073	1518.1	15.0
20	13.754	32.990	24.685	325.2	.093	1501.2	20.0
25	10.046	33.020	25.399	257.3	.108	1488.4	25.0
30	10.031	33.041	25.418	255.6	.121	1488.5	30.2
35	10.084	33.080	25.440	253.6	.134	1488.8	35.2
40	10.105	33.109	25.458	252.0	.146	1489.0	40.2
45	10.106	33.116	25.463	251.6	.159	1489.1	45.2
46	10.103	33.119	25.466	251.3	.162	1489.1	46.4

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AM
1		32.550						
24	12.360	33.249						
44	10.100	33.106						

SHIP CH CRUISE 77-15 STATION 19 POSITION 39 42.80 N 72 57.50 W
 LOCAL TIME 909 DATE 77/ 9/23 WIND = knots DIR = DEPTH= 67M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	19.499	32.514	22.997	485.8	0.000	1517.8	0.0
5	19.499	32.518	23.000	485.6	.024	1517.9	5.0
10	19.503	32.519	23.000	485.8	.049	1518.0	10.0
15	19.501	32.522	23.003	485.7	.073	1518.1	15.0
20	18.476	32.646	23.355	452.2	.096	1515.4	20.0
25	12.191	33.132	25.103	285.5	.115	1496.2	25.0
30	10.548	33.201	25.454	252.2	.129	1490.6	30.2
35	10.354	33.228	25.509	247.1	.141	1490.0	35.2
40	10.240	33.233	25.532	244.9	.154	1489.7	40.2
45	10.177	33.226	25.537	244.5	.166	1489.5	45.2
50	10.155	33.236	25.549	243.5	.178	1489.5	50.2
55	10.148	33.240	25.553	243.2	.190	1489.6	55.2
60	10.146	33.245	25.557	242.9	.202	1489.6	60.2
65	10.146	33.248	25.560	242.8	.214	1489.7	65.0

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AM
0		32.560						
45		33.226						
65		33.234						



SHIP CH CRUISE 77-15 STATION 20 POSITION 40 2.40 N 73 6.50 W
 LOCAL TIME 1235 DATE 77/ 9/23 WIND = knots DIR = DEPTH= 45M

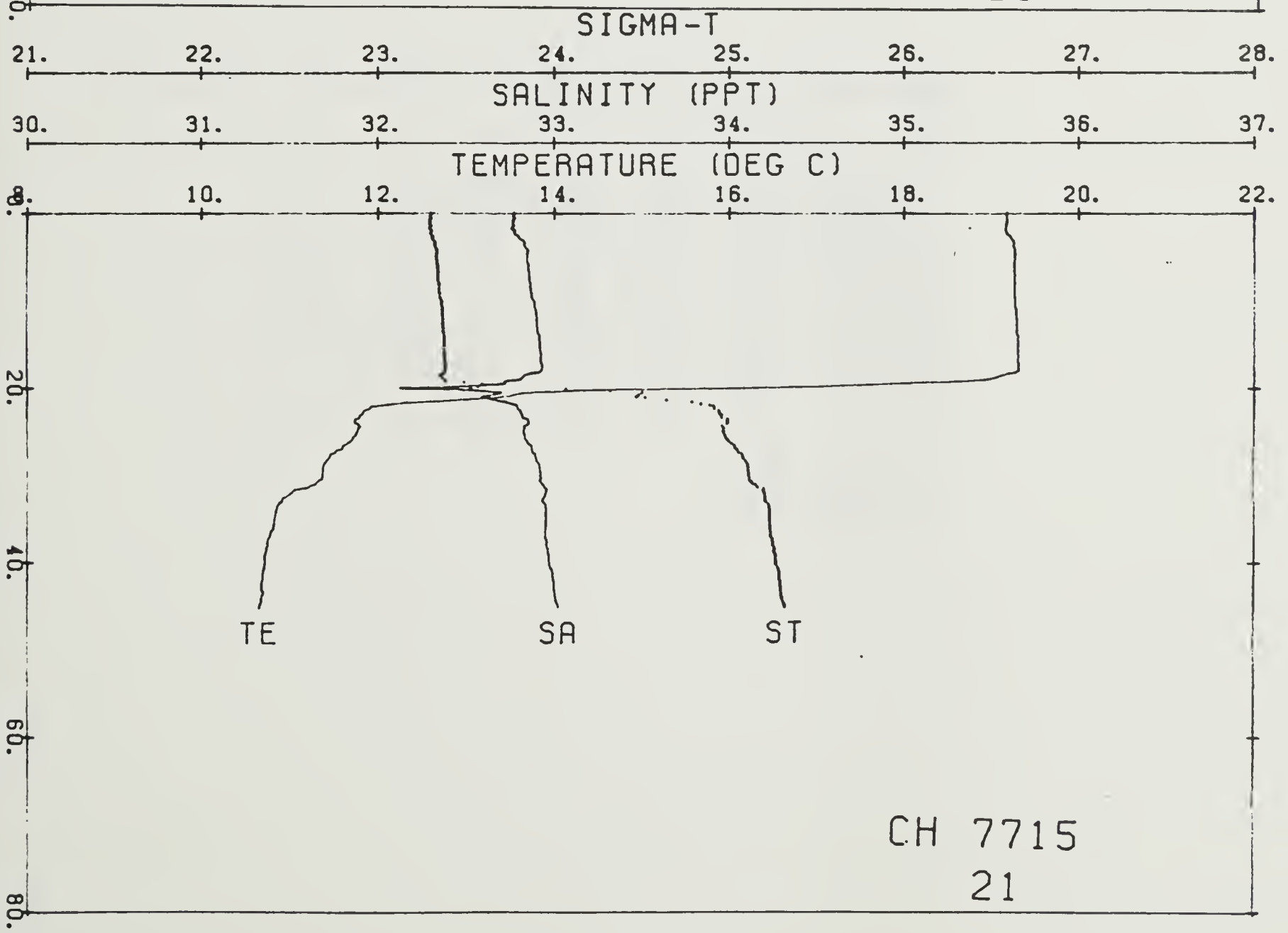
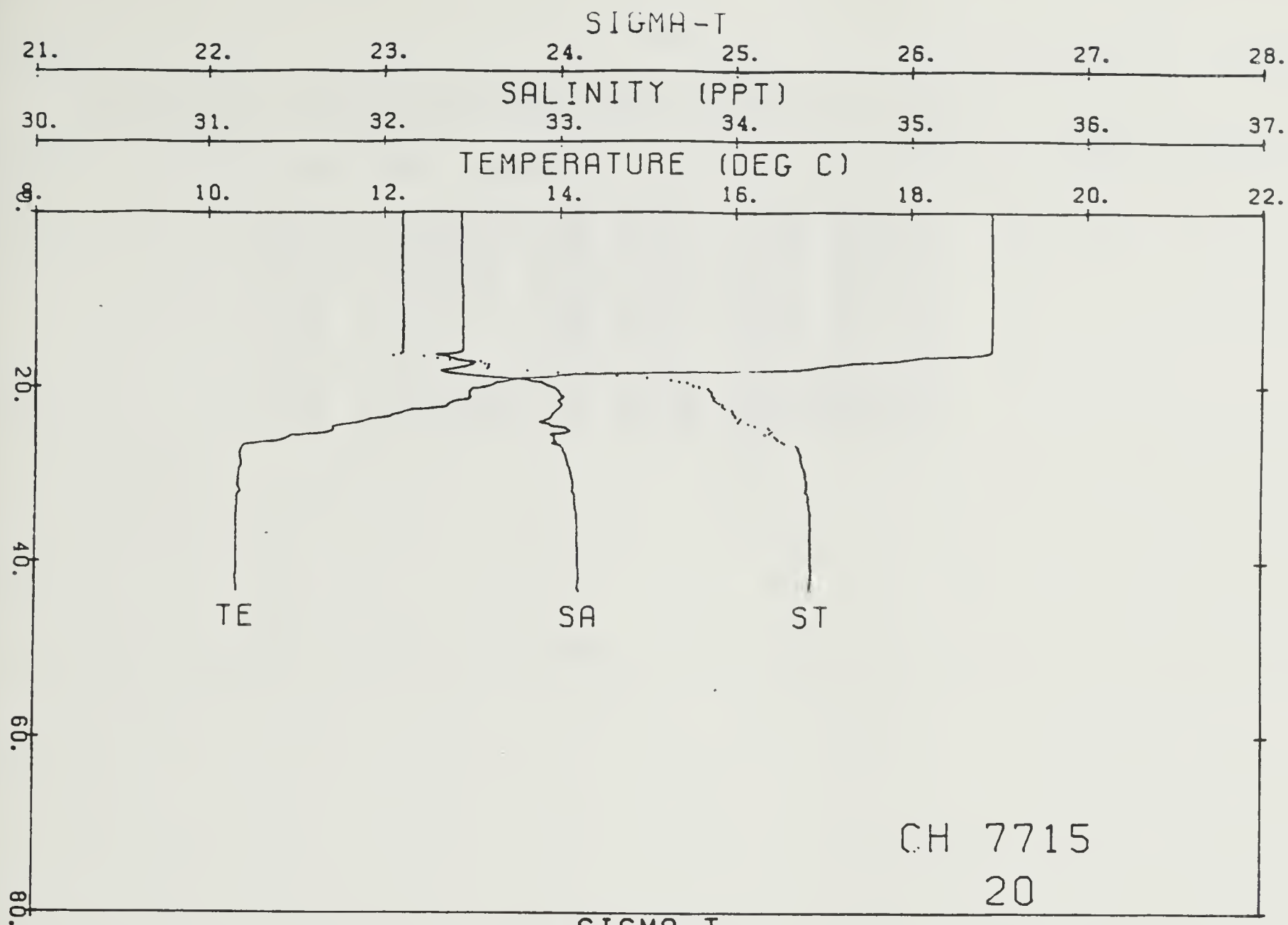
DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	18.912	32.435	23.085	477.3	0.000	1516.1	0.0
5	18.928	32.434	23.081	478.0	.024	1516.2	5.0
10	18.936	32.445	23.086	477.6	.048	1516.3	10.0
15	18.926	32.447	23.091	477.3	.072	1516.4	15.0
20	13.153	32.951	24.776	316.5	.091	1499.2	20.0
25	11.420	33.058	25.189	277.3	.106	1493.4	25.0
30	10.352	33.065	25.383	259.0	.120	1489.7	30.2
35	10.326	33.097	25.411	256.3	.133	1489.7	35.2
40	10.324	33.104	25.417	255.9	.146	1489.8	40.2
43	10.328	33.110	25.421	255.6	.154	1489.9	43.4

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AM
0	18.960	32.450						
29	10.420	33.099						
43	10.320	33.116						

SHIP CH CRUISE 77-15 STATION 21 POSITION 40 9.29 N 72 57.60 W
 LOCAL TIME 1501 DATE 77/ 9/23 WIND = knots DIR = DEPTH= 48M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	19.171	32.775	23.279	458.8	0.000	1517.2	0.0
5	19.266	32.850	23.312	455.8	.023	1517.6	5.0
10	19.268	32.888	23.341	453.2	.046	1517.8	10.0
15	19.304	32.923	23.358	451.8	.068	1518.0	15.0
20	16.152	32.124	23.504	437.9	.090	1507.8	20.0
25	11.757	32.829	24.949	300.2	.109	1494.3	25.1
30	11.369	32.924	25.094	286.5	.124	1493.1	30.1
35	10.825	32.954	25.214	275.1	.138	1491.3	35.2
40	10.715	32.975	25.249	271.9	.152	1491.0	40.2
45	10.649	33.027	25.302	267.0	.165	1490.9	45.2
45	10.649	33.027	25.302	267.0	.165	1490.9	45.2

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AM
0	19.080	32.753						
24	11.800	32.887						
45		33.025						



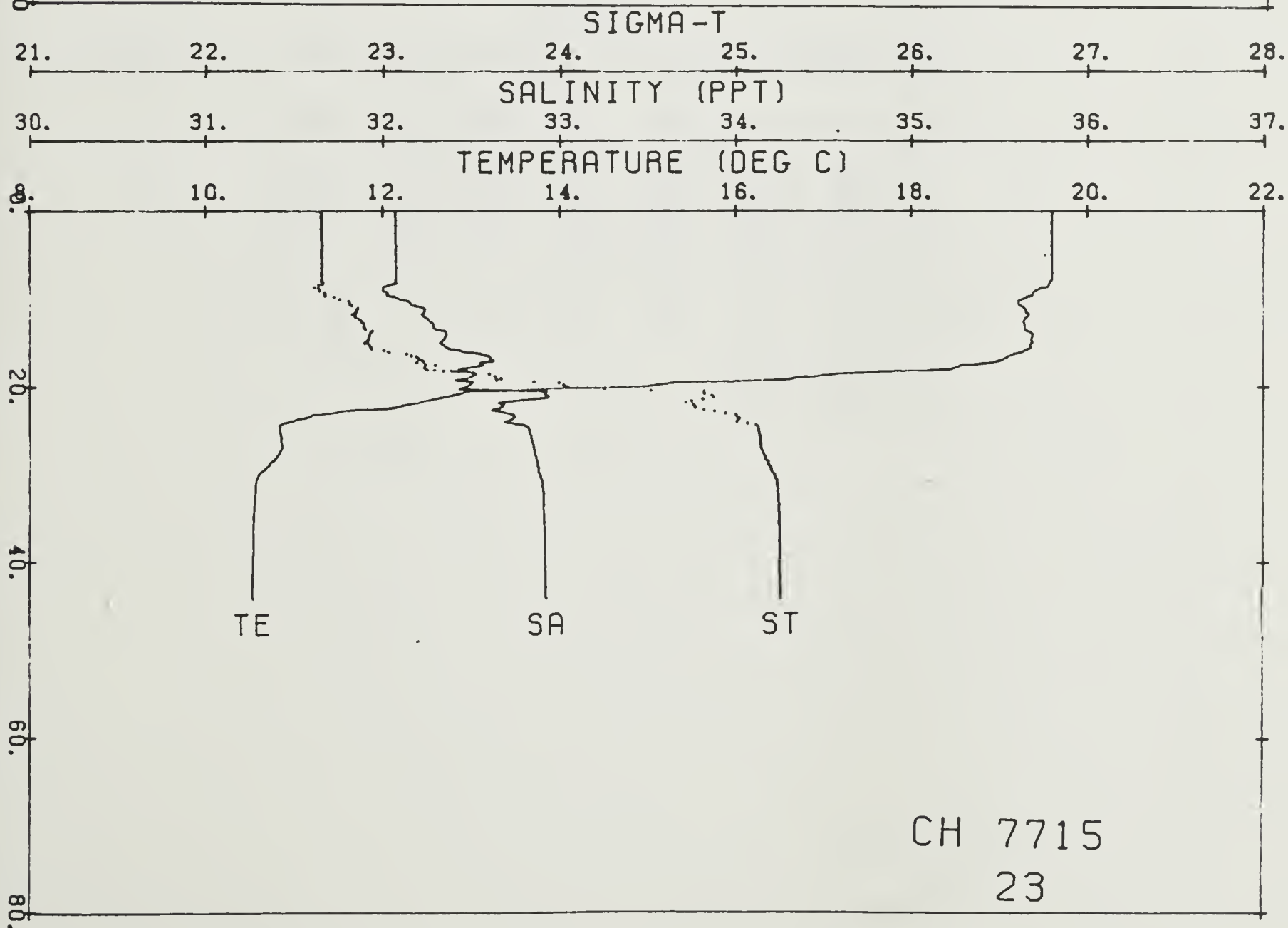
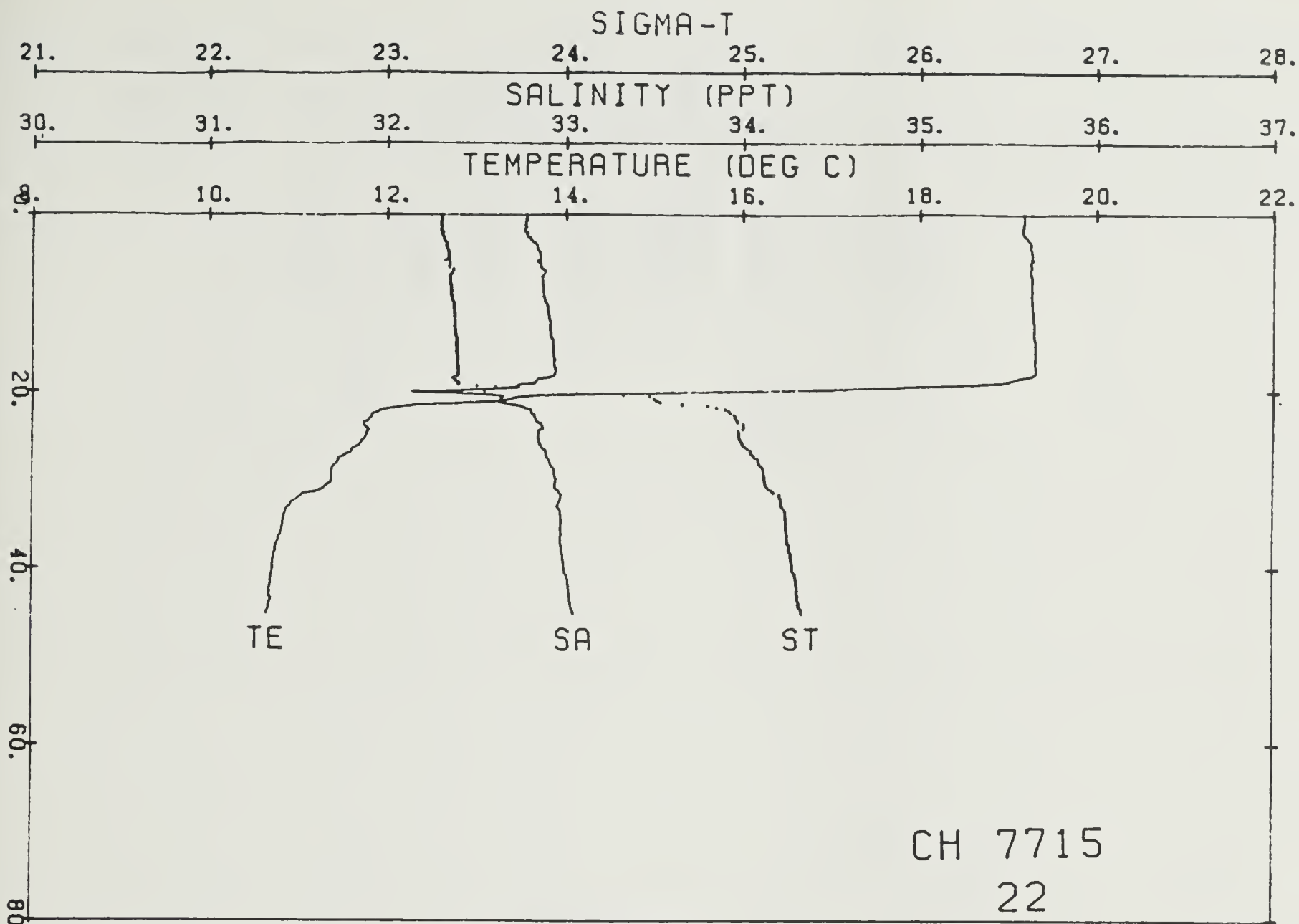
SHIP CH CRUISE 77-15 STATION 22 POSITION 39 58.50 N 72 50.10 W
 LOCAL TIME 1751 DATE 77/ 9/23 WIND = knots DIR = DEPTH= 53M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	19.171	32.775	23.279	458.8	0.000	1517.2	0.0
5	19.266	32.851	23.314	455.7	.023	1517.6	5.0
10	19.268	32.893	23.345	452.9	.046	1517.8	10.0
15	19.304	32.928	23.363	451.3	.068	1518.0	15.0
20	16.152	32.133	23.510	437.3	.090	1507.8	20.0
25	11.757	32.841	24.958	299.3	.110	1494.3	25.2
30	11.369	32.939	25.105	285.4	.124	1493.2	30.2
35	10.825	32.971	25.227	273.8	.138	1491.3	35.2
40	10.715	32.995	25.265	270.4	.152	1491.1	40.2
45	10.649	33.049	25.319	265.4	.165	1491.0	45.2
45	10.649	33.049	25.319	265.4	.165	1491.0	45.2

SHIP CH CRUISE 77-15 STATION 23 POSITION 39 16.09 N 73 26.60 W
 LOCAL TIME 2257 DATE 77/ 9/23 WIND = knots DIR = DEPTH= 47M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	19.603	32.065	22.628	521.0	0.000	1517.6	0.0
5	19.599	32.068	22.631	520.9	.026	1517.7	5.0
10	19.260	32.092	22.735	511.1	.052	1516.8	10.0
15	19.382	32.314	22.874	498.0	.077	1517.5	15.0
20	14.940	32.453	24.022	388.4	.099	1504.4	20.0
25	10.846	32.828	25.112	284.6	.116	1491.1	25.0
30	10.597	32.892	25.205	275.9	.131	1490.3	30.2
35	10.543	32.913	25.231	273.5	.144	1490.3	35.2
40	10.536	32.918	25.236	273.1	.158	1490.3	40.2
45	10.536	32.926	25.242	272.6	.169	1490.4	44.2

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AM
0	19.700	32.148						
31	10.600	32.946						
45	10.500	32.932						



SHIP CH CRUISE 77-15 STATION 24 POSITION 39 23.30 N 73 44.30 W
 LOCAL TIME 136 DATE 77/ 9/24 WIND = knots DIR = DEPTH= 33M

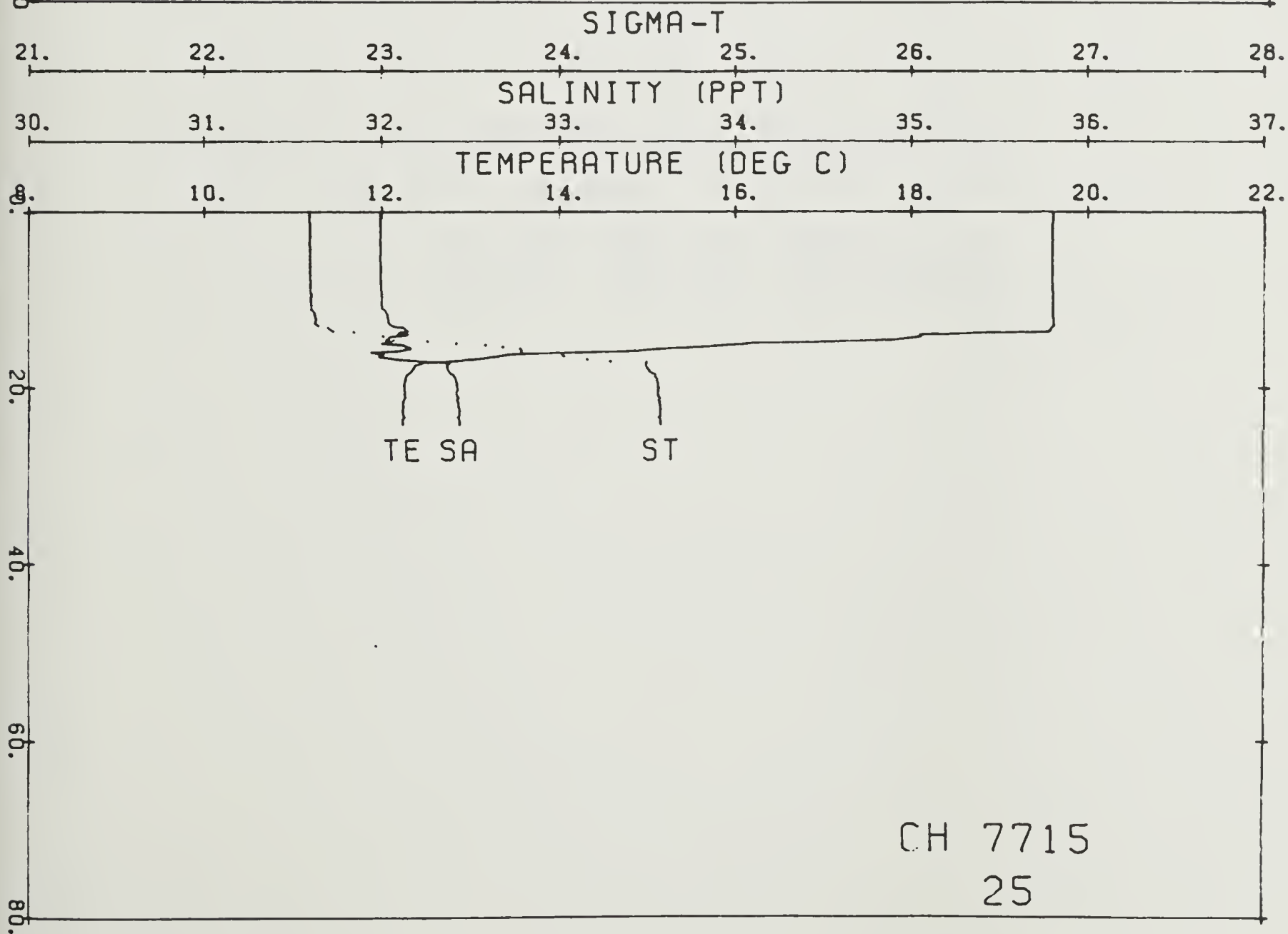
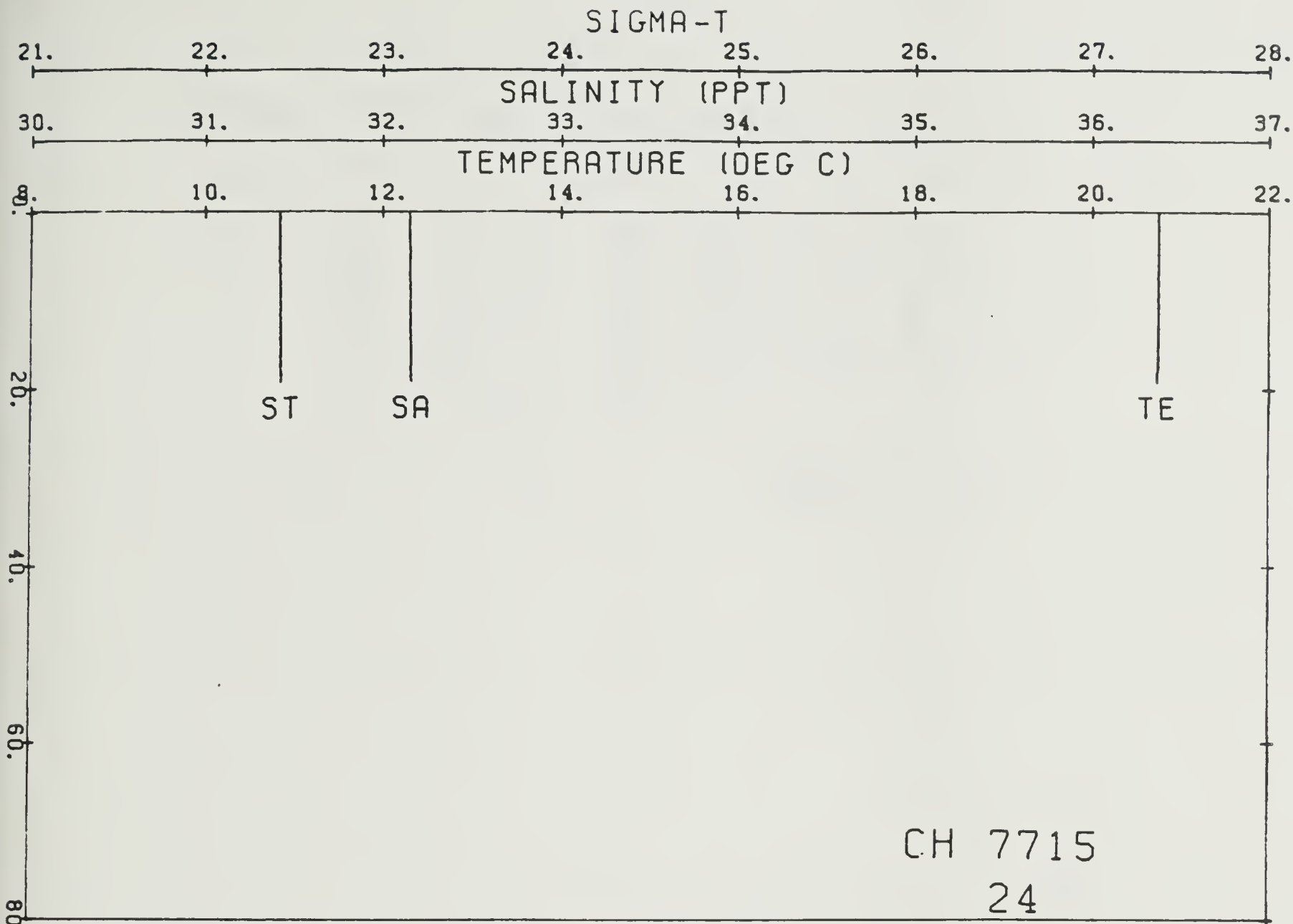
DTH	TEM	SAL	SGT	AND	DYN	SVL	PRS
0	20.754	32.152	22.395	543.4	0.000	1520.9	0.0
5	20.754	32.154	22.396	543.4	.027	1520.9	5.0
10	20.752	32.158	22.399	543.3	.054	1521.0	10.0
15	20.754	32.159	22.399	543.4	.082	1521.1	15.0
20	20.741	32.163	22.406	542.9	.104	1521.2	19.2

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AM
0	20.740	32.204						
19	20.750	32.202						
32		32.596						

SHIP CH CRUISE 77-15 STATION 25 POSITION 39 24.40 N 73 45.20 W
 LOCAL TIME 414 DATE 77/ 9/24 WIND = knots DIR = DEPTH= 26M

DTH	TEM	SAL	SGT	AND	DYN	SVL	PRS
0	19.608	31.993	22.572	526.4	0.000	1517.5	0.0
5	19.600	31.994	22.574	526.4	.026	1517.6	5.0
10	19.608	32.004	22.580	526.0	.053	1517.7	10.0
15	16.179	31.997	23.400	447.7	.077	1507.7	15.0
20	12.256	32.426	24.543	338.7	.097	1495.4	20.0
25	12.240	32.439	24.556	337.6	.111	1495.5	24.2

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AM
0	19.570	32.060						
19	12.290	32.469						
23	12.240	32.475						



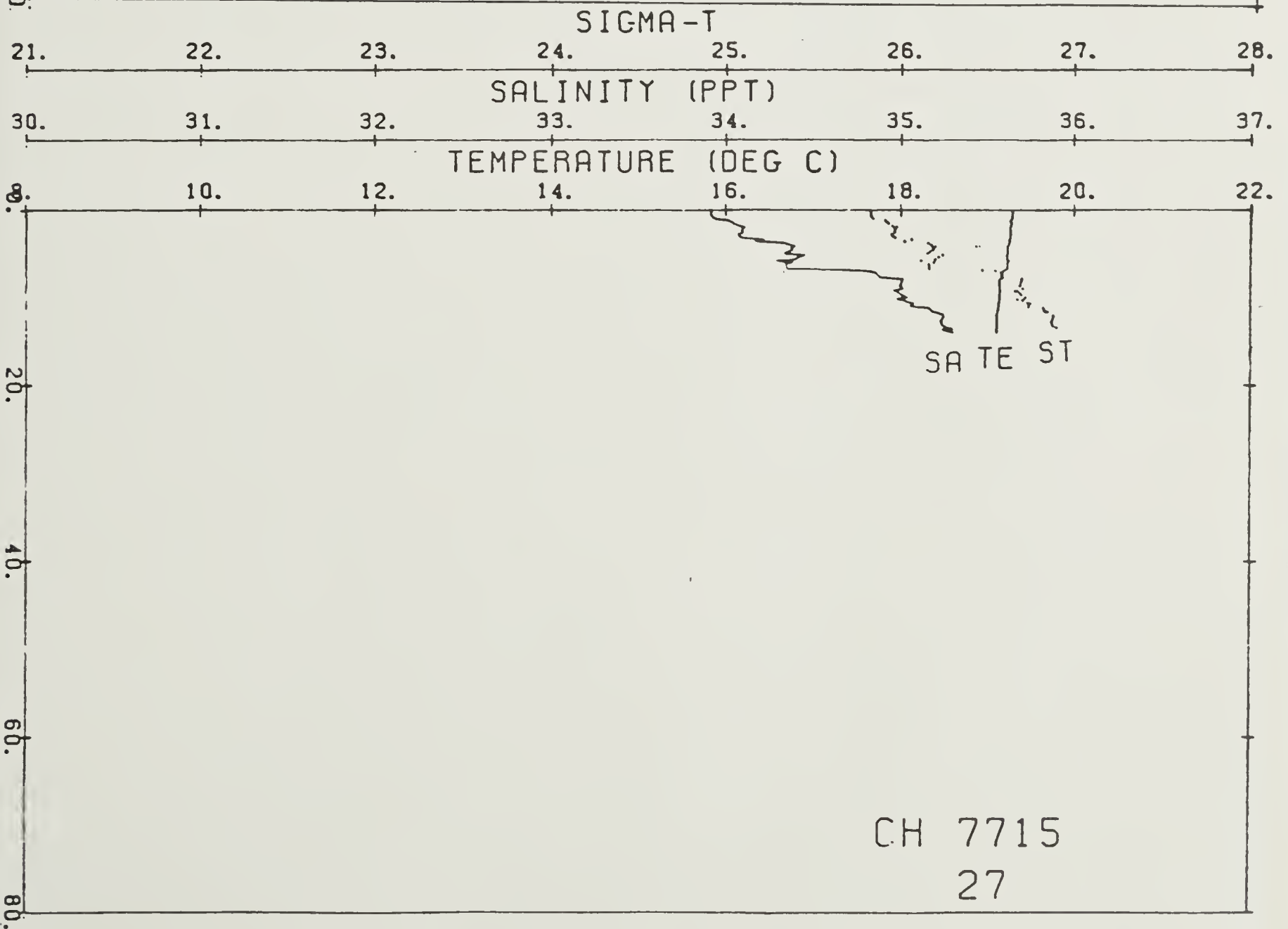
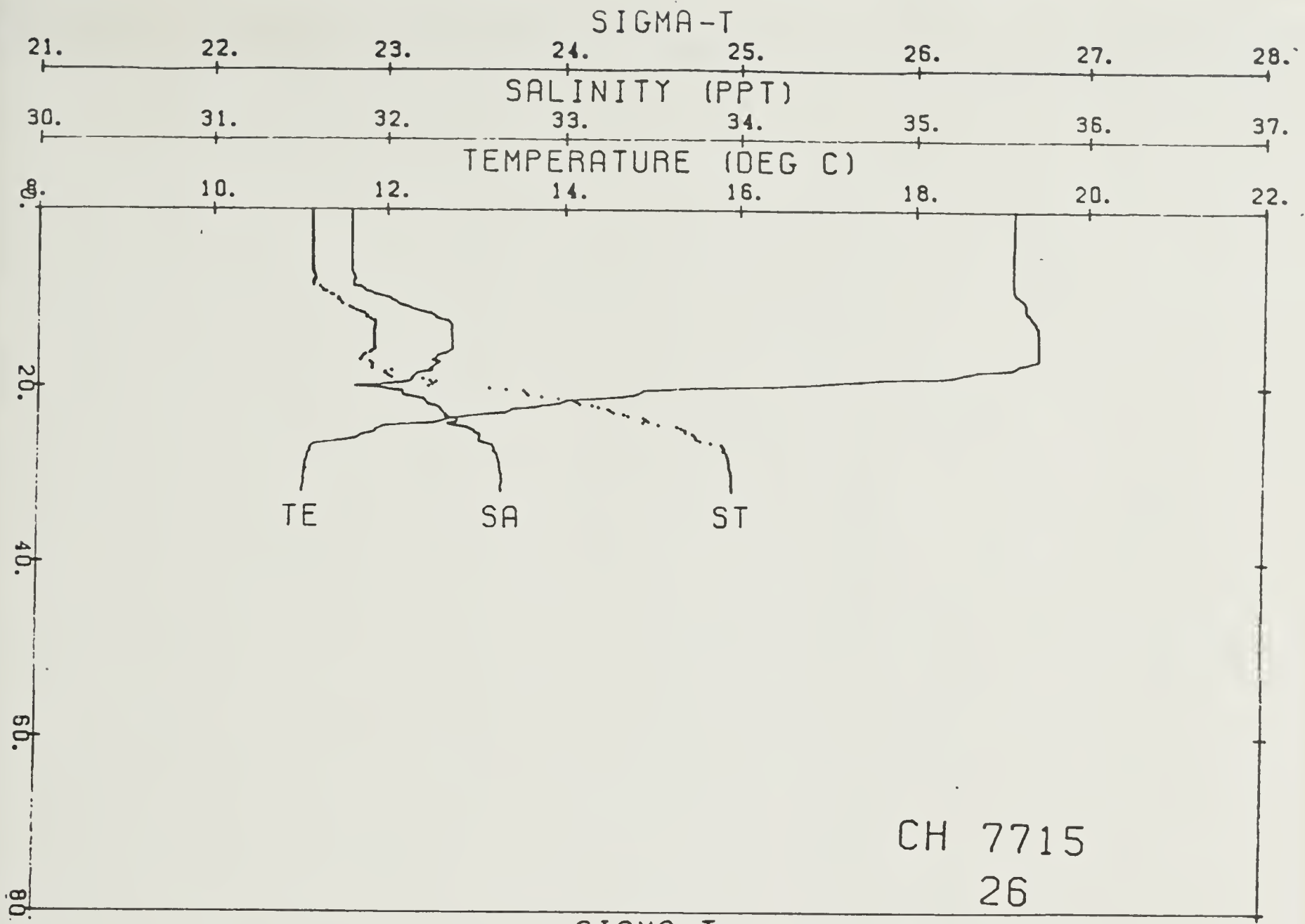
SHIP CH CRUISE 77-15 STATION 26 POSITION 39 54.70 N 73 39.00 W
 LOCAL TIME 644 DATE 77/ 9/24 WIND = knots DIR = DEPTH= 33M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	19.129	31.792	22.540	529.5	0.000	1515.9	0.0
5	19.127	31.793	22.541	529.5	.026	1516.0	5.0
10	19.218	32.024	22.695	515.0	.053	1516.6	10.0
15	19.428	32.372	22.906	494.9	.078	1517.7	15.0
20	16.388	31.813	23.211	465.8	.102	1508.2	20.0
25	11.865	32.499	24.673	326.4	.122	1494.3	25.0
30	11.038	32.652	24.941	301.0	.138	1491.6	30.2
32	11.017	32.654	24.947	300.5	.143	1491.6	32.0

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AM
0	19.110	31.863						
22		32.383						
33	11.030	32.680						

SHIP CH CRUISE 77-15 STATION 27 POSITION 40 32.19 N 73 59.30 W
 LOCAL TIME 1252 DATE 77/ 9/24 WIND = knots DIR = DEPTH= 15M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	19.273	26.913	18.787	889.7	0.000	1510.7	0.0
5	19.219	27.327	19.115	858.2	.044	1511.1	5.0
10	19.124	27.976	19.633	808.6	.085	1511.6	10.0
15	19.089	28.297	19.886	784.4	.117	1512.0	14.0





CTD STATIONS
CAPE HENLOPEN 78-BT
AUGUST 1978

CAPE HENLOPEN 78-BT

Cruise dates: 13 August 1978 - 19 August 1978

Station numbers: 1-47

CTD and bottle (22): 2-5, 7-14, 37-46

CTD data only (21): 15-24, 26-36

Bottle data only (2): 1, 6

No CTD or bottle data (2): 25, 47

SHIP CH CRUISE 78-BT STATION 2 POSITION 40 44.20 N 70 59.60 W
 LOCAL TIME 745 DATE 78/ 8/14 WIND = knots DIR = DEPTH= 59M

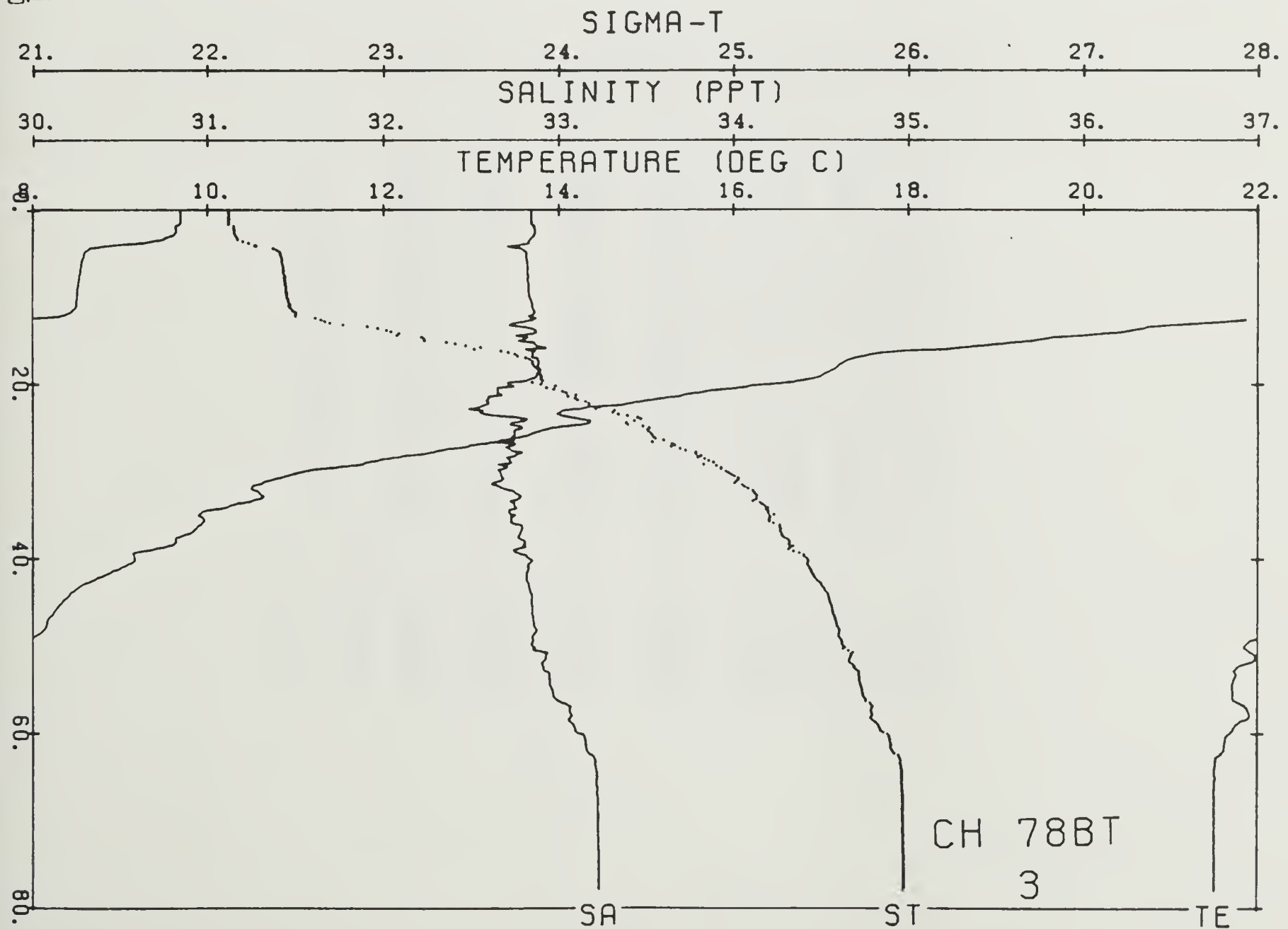
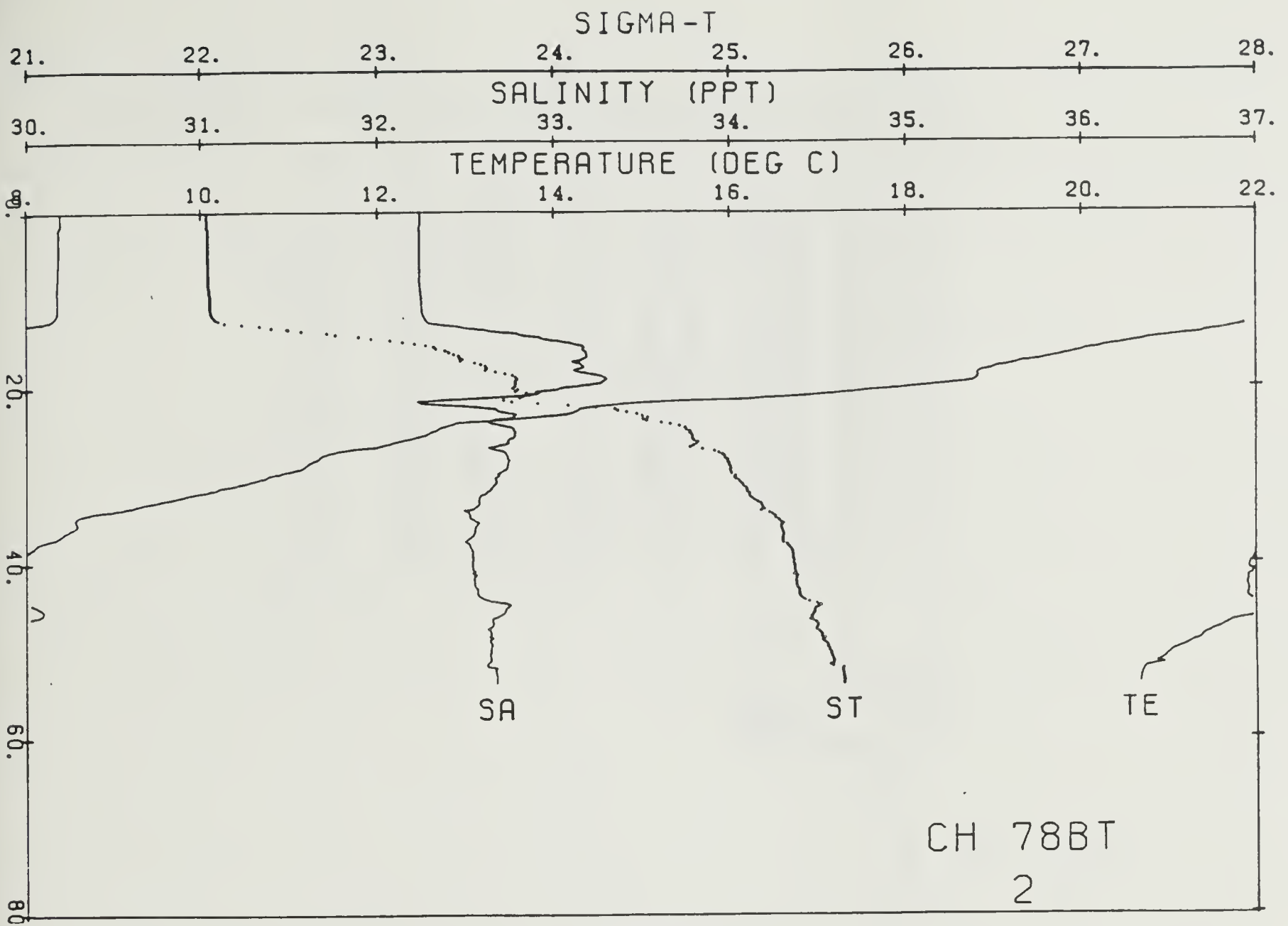
DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	22.393	32.240	22.014	579.8	0.000	1525.3	0.0
5	22.373	32.237	22.018	579.6	.029	1525.3	5.0
10	22.358	32.248	22.030	578.6	.058	1525.4	10.0
15	20.546	33.123	23.189	468.0	.084	1521.7	15.0
20	18.122	33.041	23.743	415.1	.106	1514.8	20.0
25	12.613	32.785	24.754	318.8	.125	1497.2	25.0
30	10.728	32.664	25.005	294.9	.140	1490.5	30.2
35	8.569	32.551	25.267	269.9	.155	1482.5	35.2
40	7.930	32.532	25.347	262.4	.168	1480.1	40.2
45	8.170	32.725	25.463	251.4	.181	1481.3	45.2
50	7.030	32.637	25.554	242.7	.193	1476.9	50.2
54	6.668	32.670	25.628	235.7	.202	1475.5	53.8

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
1		32.294						
7		32.299						
24	11.570	32.826						
29		32.737						
40	7.870	32.574						
53	6.660	32.679						

SHIP CH CRUISE 78-BT STATION 3 POSITION 40 24.80 N 70 36.00 W
 LOCAL TIME 1438 DATE 78/ 8/14 WIND = knots DIR = DEPTH= 80M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	23.696	32.842	22.099	571.7	0.000	1529.3	0.0
5	22.590	32.814	22.395	543.6	.028	1526.5	5.0
10	22.505	32.833	22.433	540.1	.055	1526.4	10.0
15	19.416	32.769	23.212	465.7	.080	1518.1	15.0
20	16.464	32.710	23.882	401.8	.102	1509.5	20.0
25	13.920	32.791	24.497	343.3	.120	1501.6	25.0
30	11.021	32.664	24.954	299.8	.137	1491.6	30.2
35	9.947	32.726	25.186	277.7	.152	1487.9	35.2
40	9.168	32.850	25.409	256.6	.165	1485.2	40.2
45	8.317	32.849	25.538	244.3	.177	1482.1	45.2
50	7.845	32.865	25.620	236.6	.189	1480.4	50.2
55	7.716	32.968	25.720	227.2	.201	1480.1	55.2
60	7.653	33.143	25.866	213.3	.212	1480.1	60.2
65	7.516	33.220	25.946	205.8	.223	1479.8	65.2
70	7.504	33.227	25.953	205.2	.233	1479.8	70.4
75	7.505	33.233	25.957	204.8	.244	1479.9	75.4
78	7.505	33.234	25.958	204.8	.249	1480.0	78.0

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
2		32.899	5.34	0.19	0.40	1.03	0.0	
15	17.310	33.046	6.26	0.24	0.30	2.41	0.0	0.0
27			6.95	0.33	0.10	1.94	0.0	0.1
42	8.810	32.873	6.51	0.46	2.40	2.93	0.2	0.1
77	7.500	33.210	5.49	0.87	8.50	10.43	0.2	0.2



SHIP CH CRUISE 78-BT STATION 4 POSITION 40 25.00 N 70 34.60 W
 LOCAL TIME 1828 DATE 78/ 8/14 WIND = knots DIR = DEPTH= 81M

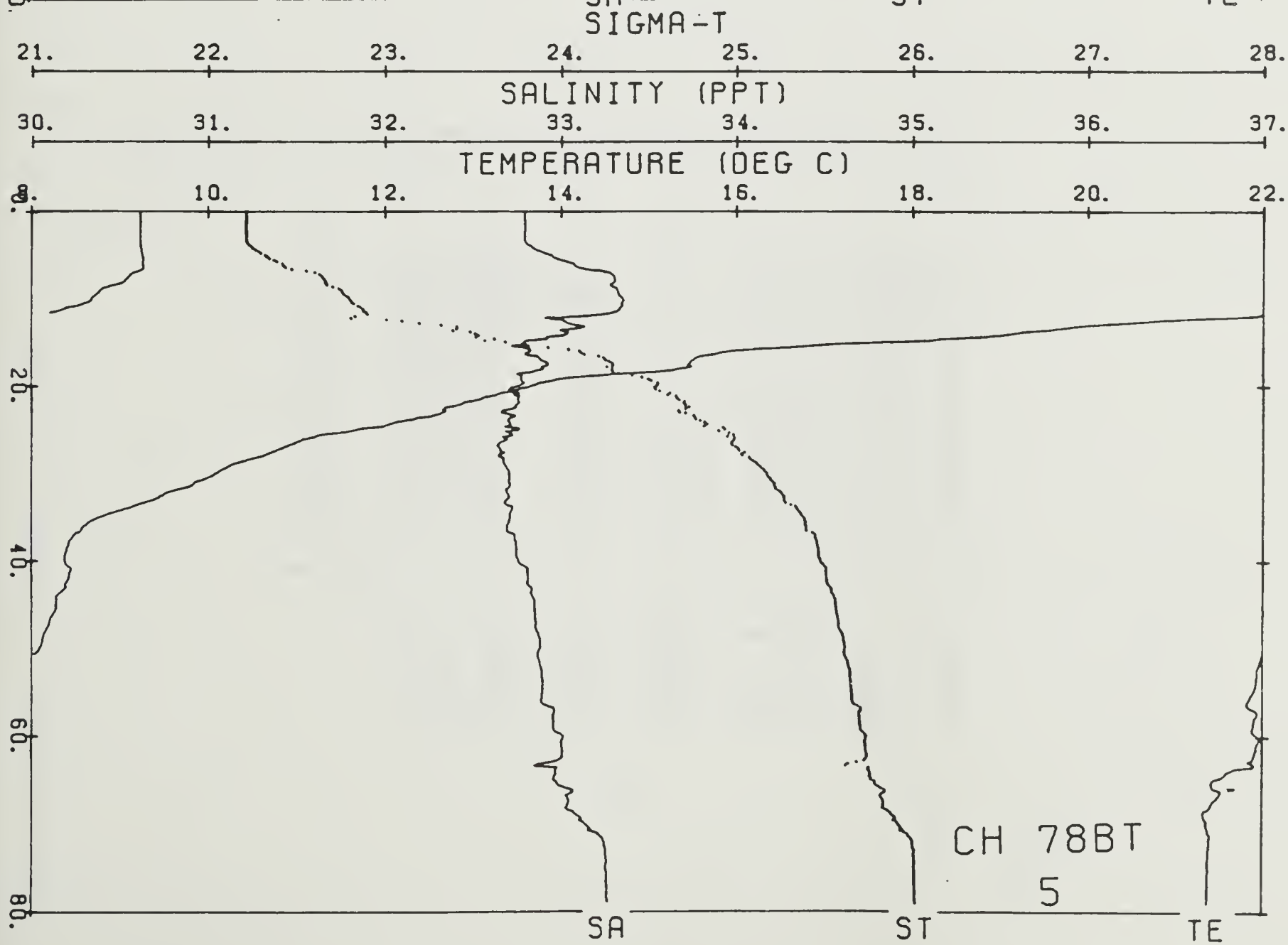
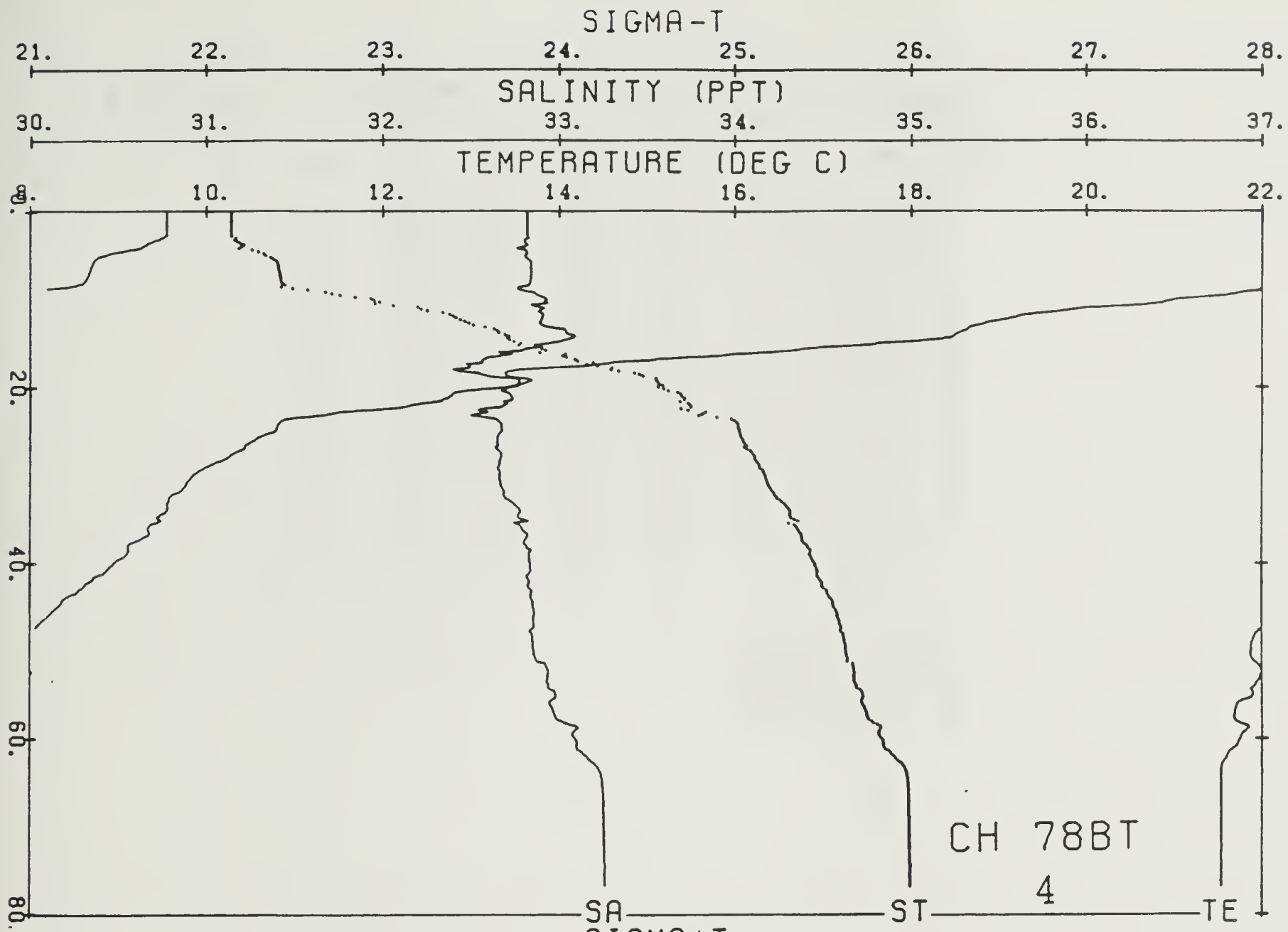
DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	23.552	32.817	22.122	569.4	0.000	1528.9	0.0
5	22.848	32.806	22.315	551.1	.028	1527.2	5.0
10	21.039	32.930	22.910	494.4	.054	1522.7	10.0
15	17.648	32.917	23.763	413.1	.077	1513.2	15.0
20	13.388	32.707	24.541	339.0	.096	1499.6	20.0
25	10.756	32.670	25.005	294.8	.111	1490.6	25.0
30	9.825	32.660	25.155	280.6	.126	1487.2	30.2
35	9.480	32.826	25.340	263.0	.140	1486.3	35.2
40	8.925	32.834	25.434	254.1	.153	1484.3	40.2
45	8.280	32.857	25.550	243.1	.165	1481.9	45.2
50	7.871	32.856	25.610	237.5	.177	1480.5	50.2
55	7.891	32.984	25.707	228.4	.189	1480.8	55.2
60	7.741	33.103	25.822	217.5	.200	1480.4	60.2
65	7.531	33.248	25.966	203.9	.211	1479.9	65.4
70	7.532	33.257	25.972	203.3	.221	1480.0	70.4
75	7.532	33.262	25.976	203.0	.232	1480.1	75.4
76	7.532	33.262	25.977	203.0	.234	1480.1	76.8

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
2		32.871						
7								
27	10.690							
37		32.838						
57		32.979						
76	7.530	33.267						

SHIP CH CRUISE 78-BT STATION 5 POSITION 40 27.60 N 70 59.30 W
 LOCAL TIME 2225 DATE 78/ 8/14 WIND = knots DIR = DEPTH= 81M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	23.229	32.790	22.194	562.6	0.000	1528.0	0.0
5	23.255	32.942	22.302	552.4	.028	1528.4	5.0
10	22.670	33.354	22.781	506.8	.054	1527.4	10.0
15	17.631	32.780	23.662	422.7	.078	1513.0	15.0
20	13.642	32.750	24.523	340.7	.097	1500.5	20.0
25	11.647	32.754	24.911	303.8	.113	1493.8	25.0
30	10.039	32.705	25.154	280.7	.128	1488.1	30.2
35	8.709	32.705	25.366	260.5	.142	1483.2	35.2
40	8.373	32.764	25.464	251.3	.154	1482.1	40.2
45	8.268	32.853	25.549	243.2	.167	1481.9	45.2
50	8.065	32.877	25.597	238.7	.179	1481.2	50.2
55	7.871	32.894	25.639	234.8	.191	1480.6	55.2
60	7.966	33.012	25.718	227.4	.202	1481.2	60.2
65	7.415	32.977	25.769	222.5	.214	1479.1	65.4
70	7.372	33.162	25.921	208.2	.225	1479.2	70.4
75	7.378	33.264	25.999	200.8	.235	1479.5	75.4
79	7.377	33.270	26.005	200.4	.242	1479.5	79.0

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
2		32.852	5.18	0.06	2.10	0.77	0.0	0.2
19			6.42	0.17	2.60	1.59	0.0	0.4
35	8.800	32.806	6.94	0.34	2.60	2.95	0.0	0.2
42	8.340	32.828	6.31	0.50	7.20	5.08	0.0	0.2
78	7.370	33.244	5.42	0.70	10.90	13.33	0.0	0.1



SHIP CH CRUISE 78-BT STATION 7 POSITION 40 27.60 N 70 59.40 W
 LOCAL TIME 830 DATE 78/ 8/15 WIND = knots DIR = DEPTH= 80M

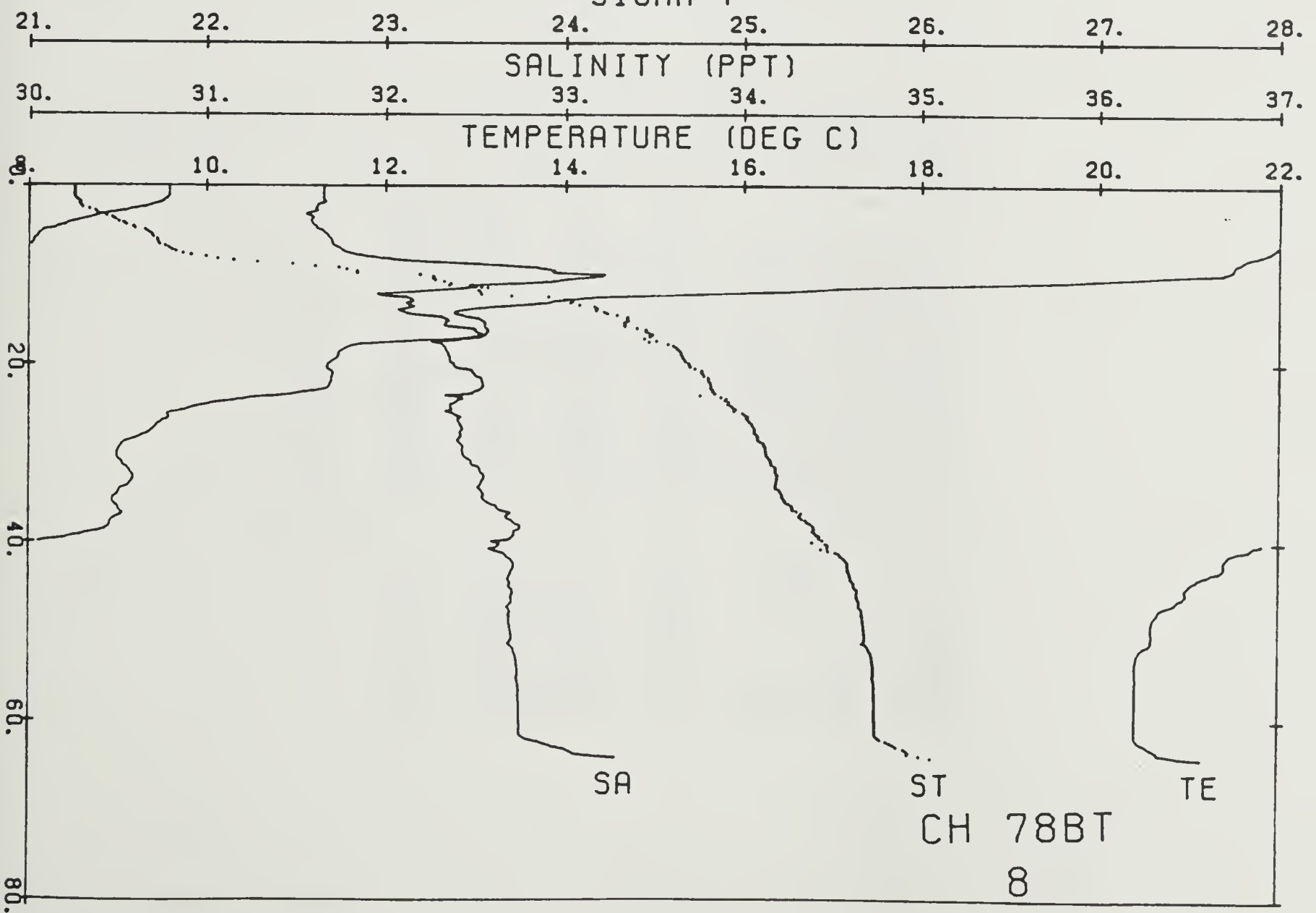
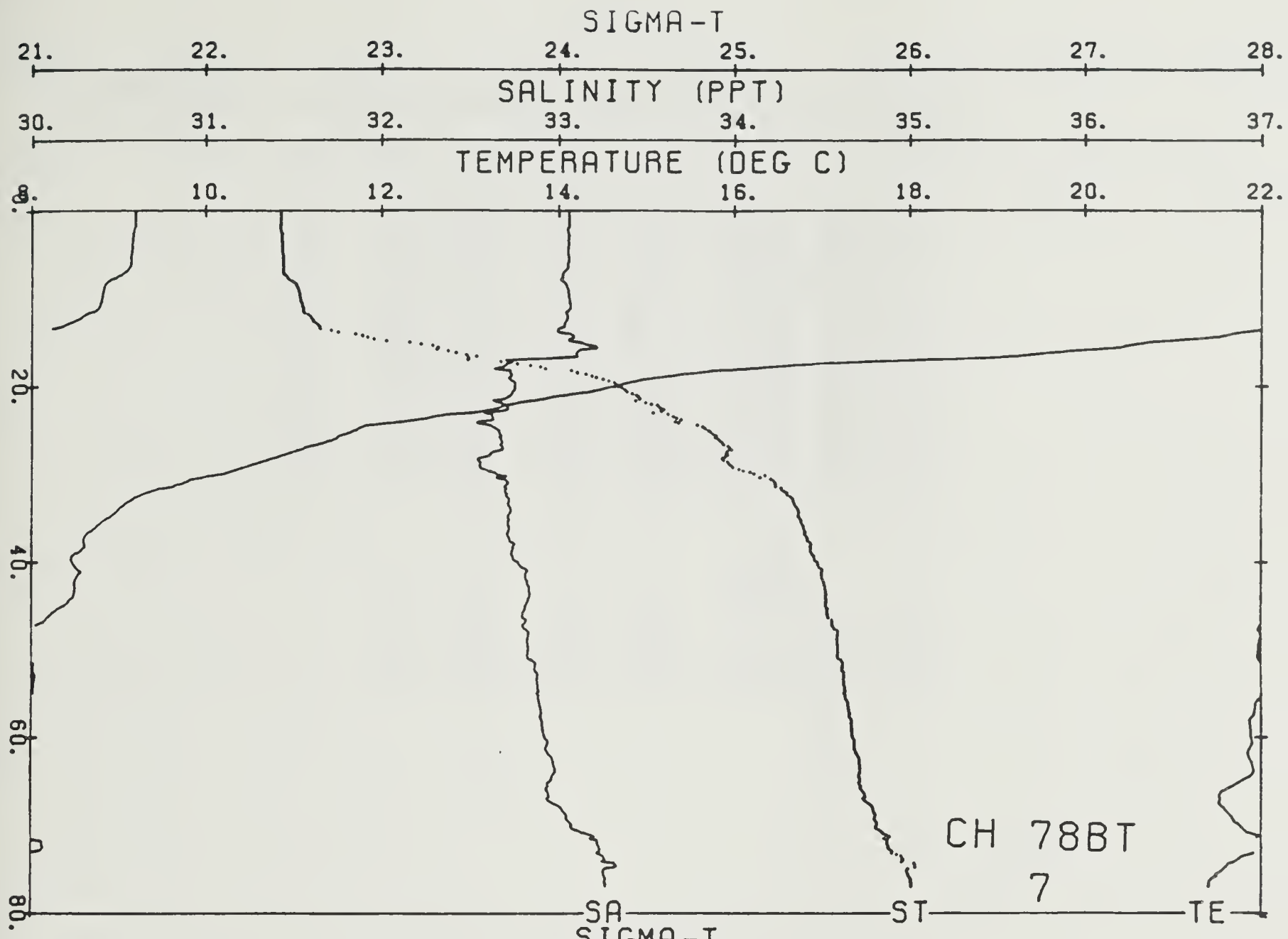
DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	23.191	33.058	22.408	542.1	0.000	1528.2	0.0
5	23.142	33.053	22.419	541.2	.027	1528.2	5.0
10	22.800	33.059	22.521	531.7	.054	1527.4	10.0
15	20.742	33.124	23.137	472.9	.079	1522.2	15.0
20	14.624	32.748	24.318	360.3	.100	1503.7	20.0
25	11.680	32.662	24.834	311.1	.117	1493.8	25.0
30	10.029	32.700	25.152	280.9	.132	1488.0	30.2
35	8.822	32.716	25.358	261.3	.146	1483.7	35.2
40	8.476	32.774	25.456	252.1	.158	1482.5	40.2
45	8.317	32.808	25.506	247.3	.171	1482.0	45.2
50	7.962	32.823	25.570	241.3	.183	1480.8	50.2
55	8.000	32.884	25.613	237.3	.195	1481.1	55.2
60	7.891	32.928	25.663	232.6	.207	1480.8	60.2
65	7.697	32.936	25.697	229.4	.219	1480.1	65.4
70	7.789	33.075	25.793	220.4	.230	1480.7	70.4
75	7.512	33.252	25.971	203.5	.241	1480.0	75.4
77	7.401	33.262	25.995	201.3	.244	1479.6	77.0

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
0		33.108						
5		33.086						
35	10.210	32.826						
58	7.870	32.918						
77	7.400	33.243						

SHIP CH CRUISE 78-BT STATION 8 POSITION 40 36.10 N 71 21.00 W
 LOCAL TIME 1522 DATE 78/ 8/15 WIND = knots DIR = DEPTH= 66M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	23.581	31.656	21.235	654.4	0.000	1527.6	0.0
5	22.152	31.648	21.633	616.5	.032	1524.1	5.0
10	20.883	33.221	23.173	469.4	.059	1522.6	10.0
15	13.042	32.340	24.325	359.4	.080	1497.9	15.0
20	11.352	32.383	24.676	326.0	.097	1492.2	20.0
25	9.816	32.362	24.923	302.5	.112	1486.7	25.0
30	8.985	32.430	25.109	284.9	.128	1483.8	30.2
35	8.938	32.546	25.207	275.6	.142	1483.9	35.2
40	7.812	32.635	25.444	253.1	.155	1479.8	40.2
45	6.959	32.695	25.609	237.4	.167	1476.6	45.2
50	6.591	32.703	25.664	232.2	.179	1475.2	50.2
55	6.418	32.735	25.711	227.8	.190	1474.7	55.2
60	6.405	32.752	25.726	226.4	.202	1474.7	60.2
65	7.154	33.287	26.048	196.0	.210	1478.4	64.2

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
1		31.713						
4		32.546	5.30	0.31	3.40	2.06		
19	13.680		6.56	0.39	3.60	3.07		
33		32.527	6.37	0.66	6.30	5.04		
47	7.500	32.784	6.33	0.67	7.20	5.57		
64	7.550	33.070	5.41	1.01	11.40	13.68		



SHIP CH CRUISE 78-BT STATION 9 POSITION 40 38.10 N 70 47.80 W
 LOCAL TIME 2152 DATE 78/ 8/15 WIND = knots DIR = DEPTH= 64M

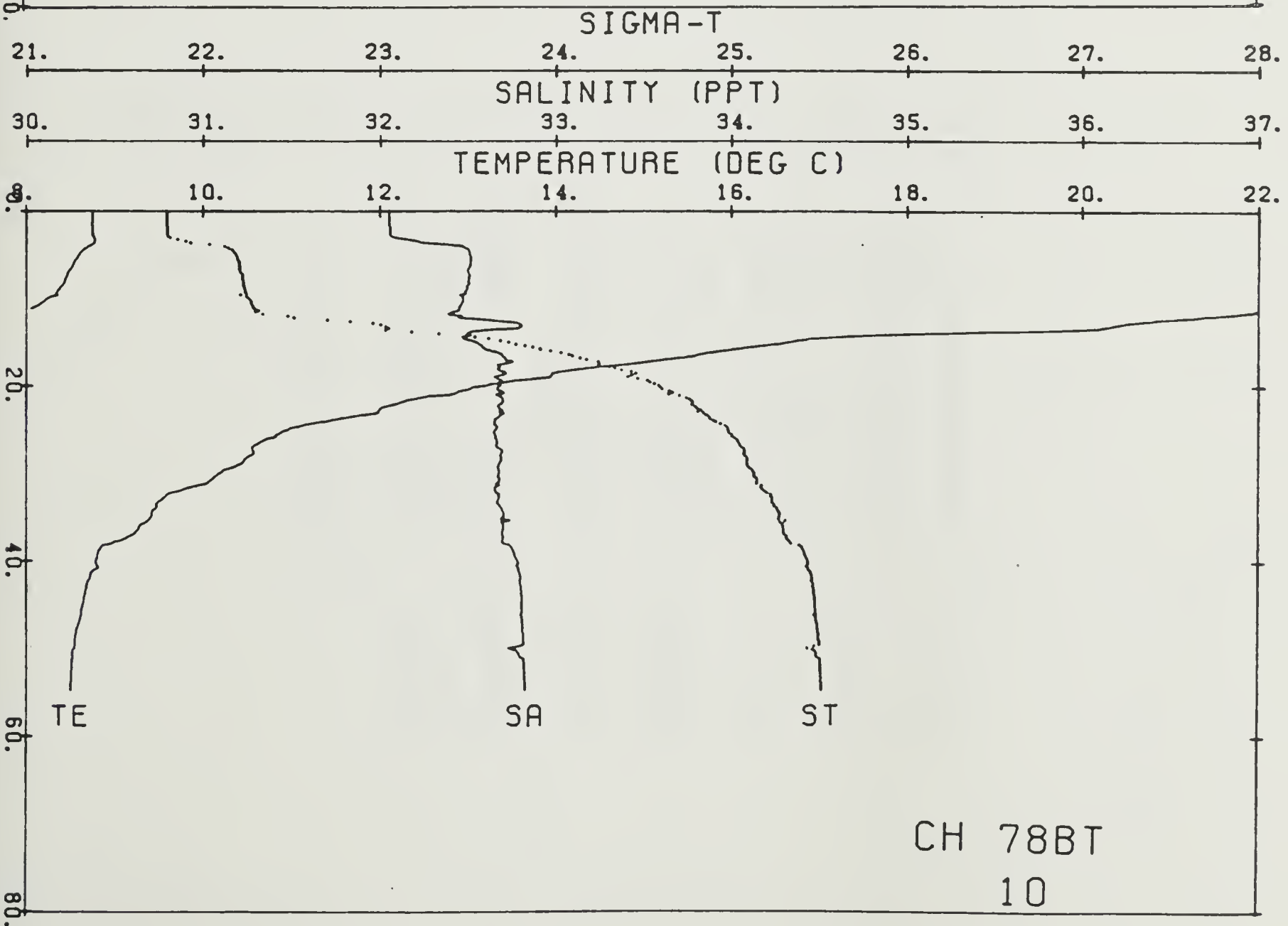
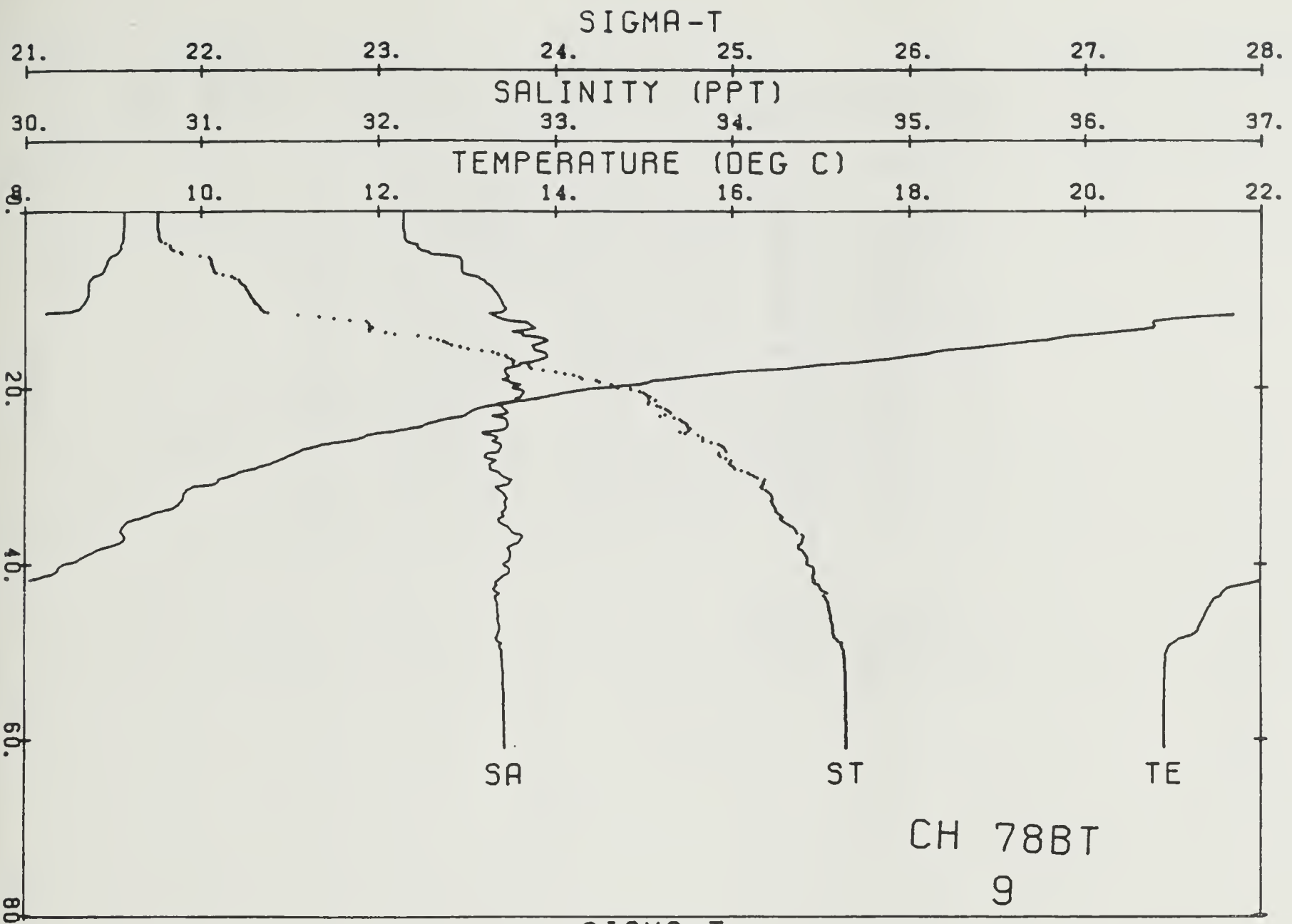
DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	23.130	32.139	21.730	607.0	0.000	1527.1	0.0
5	22.998	32.409	21.972	584.0	.030	1527.1	5.0
10	22.698	32.691	22.271	555.6	.058	1526.7	10.0
15	19.190	32.898	23.369	450.8	.083	1517.7	15.0
20	14.584	32.754	24.331	359.0	.104	1503.6	20.0
25	12.161	32.583	24.683	325.5	.121	1495.4	25.0
30	10.275	32.716	25.123	283.6	.137	1489.0	30.2
35	9.168	32.680	25.276	269.1	.150	1484.9	35.2
40	8.408	32.713	25.419	255.6	.164	1482.2	40.2
45	7.399	32.670	25.530	245.0	.176	1478.3	45.2
50	6.929	32.693	25.611	237.3	.188	1476.6	50.2
55	6.908	32.704	25.623	236.2	.200	1476.6	55.2
60	6.912	32.708	25.625	236.1	.212	1476.7	60.2
61	6.908	32.710	25.628	235.9	.214	1476.7	61.0

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
1		32.196						
9		32.536	5.32	0.25	3.20	0.88		
24	13.000	32.830	6.94	0.34	2.40	0.96		
34			7.01	0.31	3.40	2.10		
44	7.460	32.712	6.00	0.78	7.80	8.37		
60	6.910	32.712	5.75	0.86	10.10	10.65		

SHIP CH CRUISE 78-BT STATION 10 POSITION 40 .70 N 70 32.69 W
 LOCAL TIME 230 DATE 78/ 8/16 WIND = knots DIR = DEPTH= 59M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	22.748	32.053	21.773	602.9	0.000	1526.0	0.0
5	22.593	32.512	22.165	565.5	.029	1526.2	5.0
10	22.240	32.472	22.233	559.2	.057	1525.3	10.0
15	16.658	32.546	23.712	418.0	.082	1509.8	15.0
20	13.190	32.688	24.566	336.6	.101	1499.0	20.0
25	10.943	32.658	24.963	298.8	.117	1491.2	25.0
30	10.143	32.673	25.112	284.7	.132	1488.4	30.2
35	9.386	32.691	25.250	271.6	.146	1485.7	35.2
40	8.789	32.790	25.421	255.4	.159	1483.7	40.2
45	8.634	32.811	25.461	251.7	.171	1483.2	45.2
50	8.521	32.766	25.443	253.4	.184	1482.8	50.2
55	8.502	32.830	25.496	248.5	.196	1482.9	54.8

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
2		32.120	5.21	0.24	1.00	1.75		
4		32.267	5.23	0.06	3.20	1.75		
15			6.41	0.18	2.70	1.10		
25	10.740		6.97	0.34	2.50	1.31		
35			6.72	0.44	3.40	2.37		
45	8.610	32.921	5.76	0.63	7.90	8.15		
54	8.510	32.835	5.74	0.77	8.50	7.80		



SHIP CH CRUISE 78-BT STATION 11 POSITION 40 33.80 N 70 57.80 W
 LOCAL TIME 835 DATE 78/ 8/16 WIND = knots DIR = DEPTH= 69M

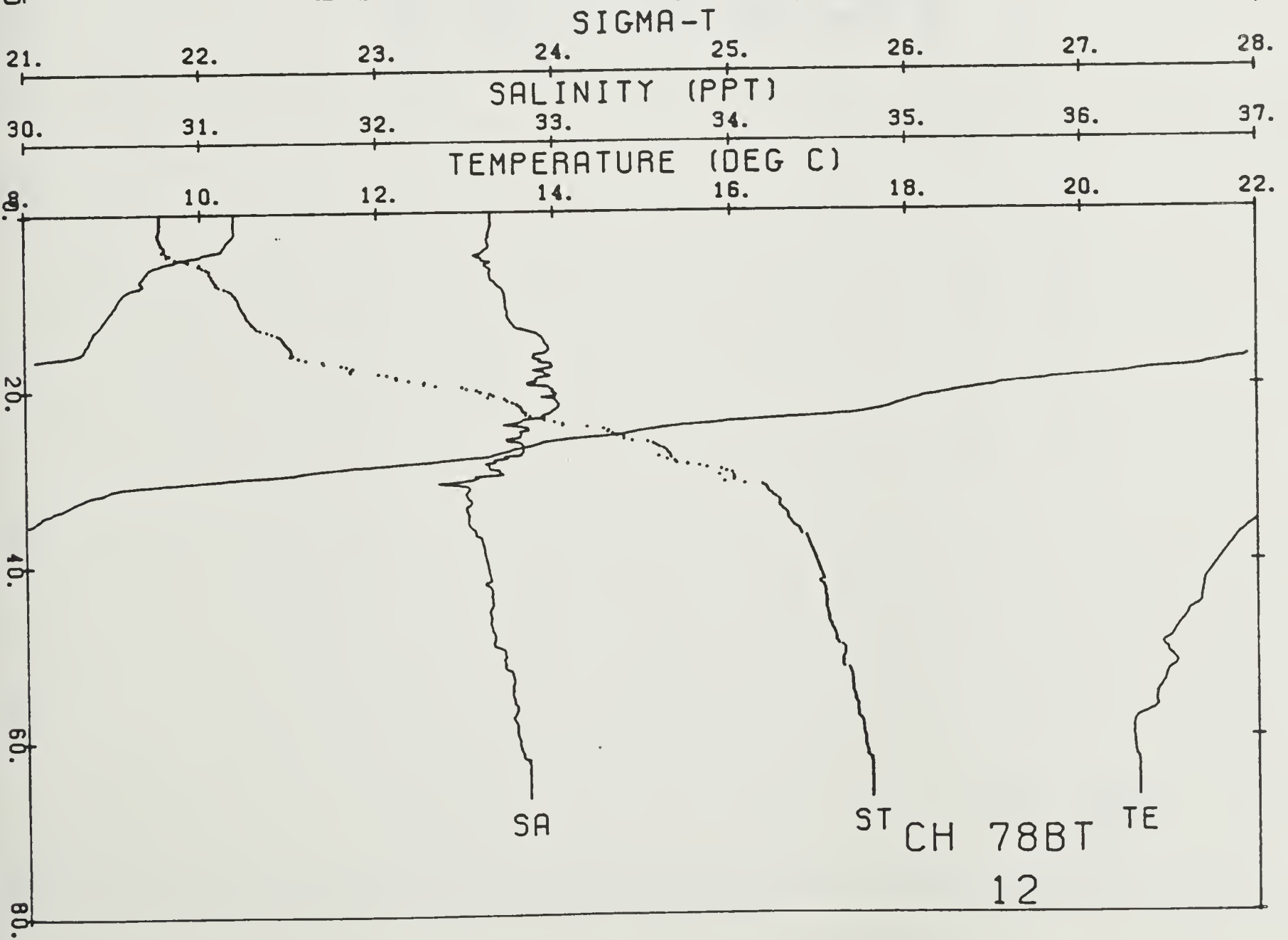
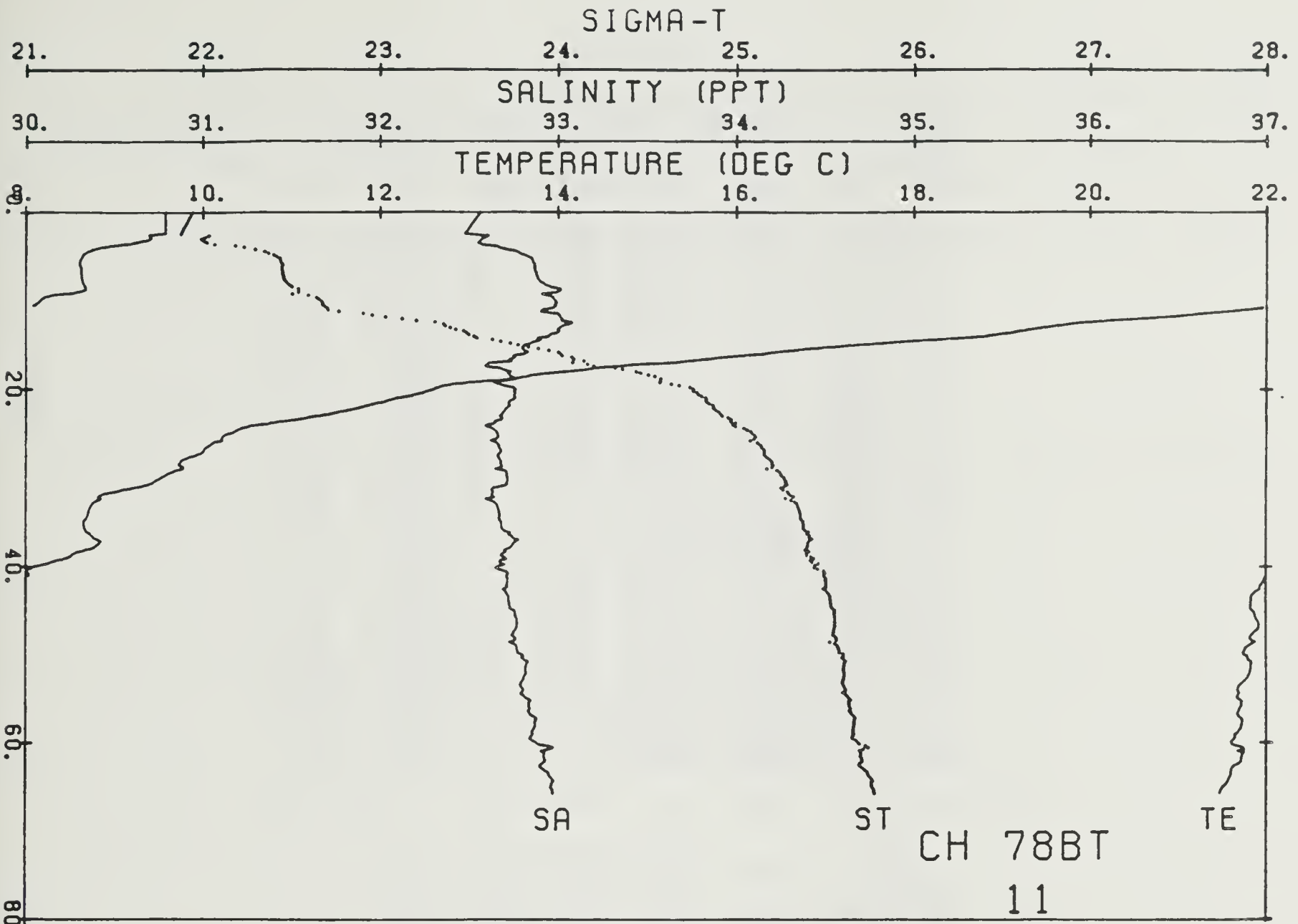
DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	23.574	32.554	21.917	589.1	0.000	1528.6	0.0
5	22.629	32.833	22.398	543.2	.028	1526.6	5.0
10	22.153	32.986	22.648	519.5	.055	1525.7	10.0
15	17.334	32.806	23.753	414.0	.078	1512.2	15.0
20	12.589	32.761	24.739	320.1	.097	1497.0	20.0
25	10.315	32.652	25.067	288.9	.112	1488.9	25.0
30	9.499	32.711	25.248	271.7	.126	1486.1	30.2
35	8.649	32.675	25.352	261.8	.140	1482.9	35.2
40	8.053	32.640	25.414	256.0	.153	1480.7	40.2
45	7.865	32.754	25.530	245.0	.165	1480.2	45.2
50	7.788	32.803	25.579	240.4	.177	1480.1	50.2
55	7.715	32.848	25.625	236.1	.189	1479.9	55.2
60	7.610	32.888	25.672	231.8	.201	1479.6	60.2
65	7.487	32.972	25.755	223.9	.213	1479.4	65.4
65	7.470	32.971	25.757	223.7	.214	1479.3	65.8

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
0		32.600						
6	22.640	32.839						
29	9.830	32.736						
58	7.640	32.871						
66	7.430							

SHIP CH CRUISE 78-BT STATION 12 POSITION 40 29.60 N 71 10.40 W
 LOCAL TIME 1420 DATE 78/ 8/16 WIND = knots DIR = DEPTH= 75M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	24.380	32.640	21.746	605.5	0.000	1530.7	0.0
5	23.862	32.558	21.836	597.0	.030	1529.4	5.0
10	23.045	32.725	22.198	562.6	.059	1527.7	10.0
15	22.687	32.955	22.474	536.3	.087	1527.1	15.0
20	18.992	32.978	23.480	440.3	.111	1517.3	20.0
25	14.978	32.801	24.283	363.7	.131	1505.0	25.0
30	10.736	32.540	24.907	304.2	.148	1490.4	30.0
35	8.063	32.506	25.307	266.1	.163	1480.5	35.2
40	7.550	32.615	25.465	251.1	.176	1478.7	40.2
45	7.302	32.627	25.509	246.9	.188	1477.9	45.2
50	6.973	32.709	25.618	236.6	.200	1476.8	50.2
55	6.843	32.757	25.673	231.4	.212	1476.4	55.2
60	6.583	32.790	25.733	225.8	.223	1475.5	60.2
65	6.641	32.848	25.771	222.2	.234	1475.9	65.2
67	6.641	32.848	25.772	222.2	.238	1475.9	66.8

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
2	24.350	32.668	5.04	0.00	1.10	1.80		
14			5.34	0.20	0.70	1.36		
25			6.89	0.31	0.90	3.20		
41	7.800	33.032	6.16	0.70	4.40	5.55		
54			5.89	0.87	7.50	8.07		
66	6.630	32.831	5.50	0.97	8.60	12.23		



SHIP CH CRUISE 78-BT STATION 13 POSITION 40 10.60 N 71 9.50 W
 LOCAL TIME 1735 DATE 78/ 8/16 WIND = knots DIR = DEPTH= 128M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	25.561	34.424	22.737	510.7	0.000	1535.5	0.0
5	25.454	34.410	22.759	508.7	.025	1535.3	5.0
10	25.040	34.457	22.921	493.5	.051	1534.5	10.0
15	24.746	34.565	23.092	477.3	.075	1534.0	15.0
20	23.728	34.757	23.540	434.7	.098	1531.8	20.0
25	20.564	34.634	24.334	359.1	.117	1523.6	25.0
30	17.505	34.646	25.122	284.1	.134	1515.1	30.2
35	15.497	34.557	25.521	246.2	.147	1509.0	35.2
40	14.120	34.510	25.784	221.3	.159	1504.6	40.2
45	12.438	34.282	25.948	205.7	.170	1498.8	45.2
50	12.115	34.386	26.090	192.3	.180	1497.9	50.2
55	11.255	33.237	25.357	262.0	.191	1493.5	55.2
60	11.441	34.473	26.285	174.0	.202	1495.8	60.2
65	11.686	34.840	26.525	151.4	.210	1497.2	65.4
70	11.724	34.857	26.531	151.0	.218	1497.5	70.4
75	12.000	35.034	26.616	143.1	.225	1498.7	75.4
80	12.042	35.136	26.687	136.5	.232	1499.1	80.4
85	12.198	35.250	26.745	131.1	.239	1499.9	85.4
90	12.146	35.270	26.771	128.7	.246	1499.8	90.4
95	12.139	35.324	26.815	124.8	.252	1499.9	95.6
100	12.044	35.319	26.829	123.5	.258	1499.7	100.6
105	11.950	35.330	26.856	121.1	.264	1499.4	105.6
110	11.945	35.402	26.913	115.9	.270	1499.6	110.6
115	11.657	35.375	26.946	112.7	.276	1498.6	115.6
120	11.619	35.377	26.955	112.0	.282	1498.6	120.6
125	11.619	35.377	26.955	112.1	.287	1498.7	125.0

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
5			4.82	0.08	0.90	2.10		
10	24.910	34.191	4.86	0.06	0.60	1.75		
34			6.47	0.14	0.80	2.10		
54	10.390	34.574	5.50	0.68	7.20	5.96		
79	12.150	35.085	4.42	0.77	10.50	7.63		
124	11.610	35.311	3.79	1.14	15.10	11.48		

SIGMA-T

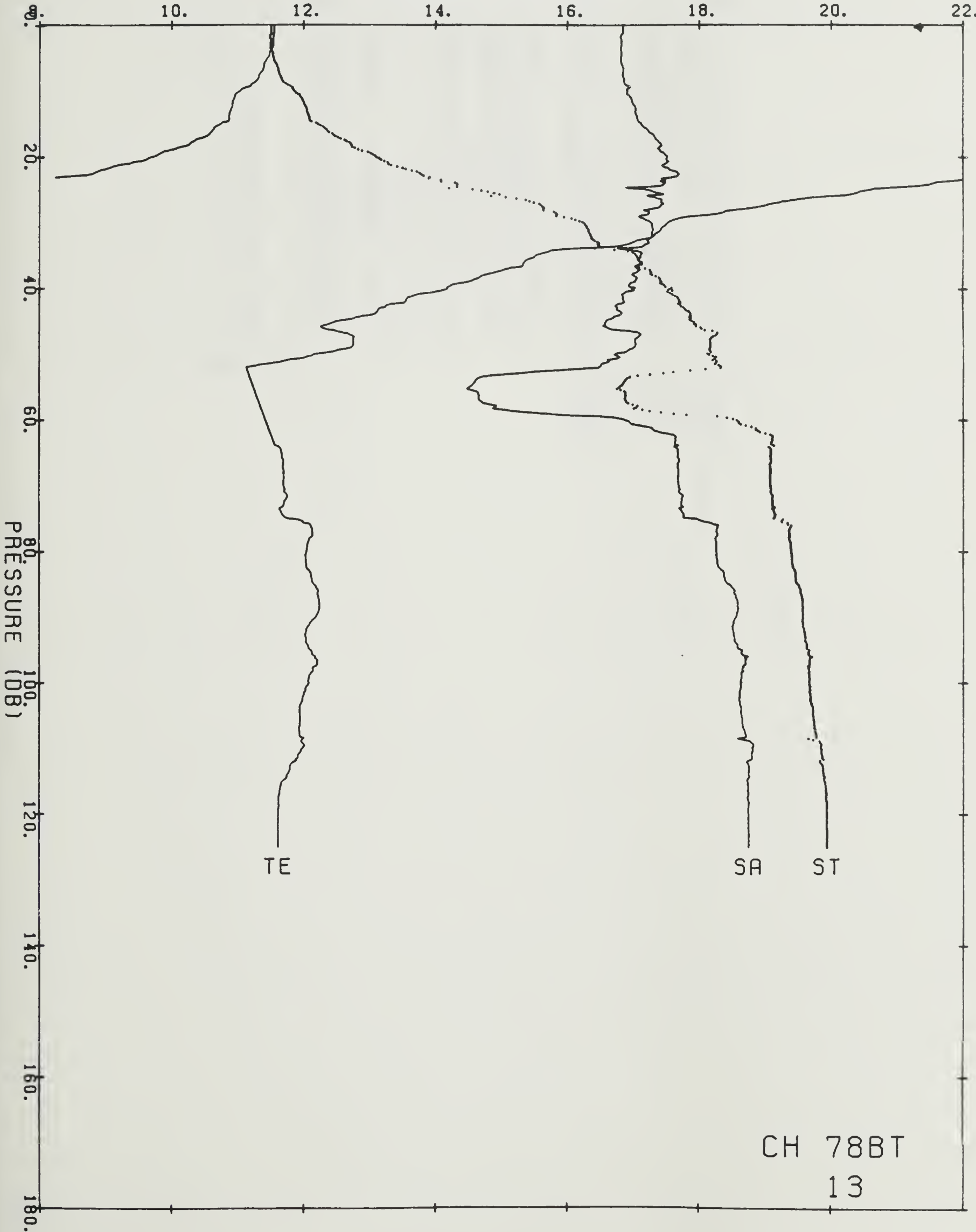
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SALINITY (PPT)

30. 31. 32. 33. 34. 35. 36. 37.

TEMPERATURE (DEG C)

8. 10. 12. 14. 16. 18. 20. 22.



CH 78BT
13

SHIP CH CRUISE 78-BT STATION 14 POSITION 40 15.50 N 71 9.40 W
 LOCAL TIME 1918 DATE 78/ 8/16 WIND = knots DIR = DEPTH= 95M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	24.429	33.310	22.237	558.4	0.000	1531.6	0.0
5	24.405	33.303	22.239	558.4	.028	1531.6	5.0
10	24.586	34.431	23.038	482.2	.054	1533.4	10.0
15	24.985	34.754	23.162	470.6	.078	1534.8	15.0
20	20.568	33.117	23.178	469.1	.101	1521.8	20.0
25	14.689	32.768	24.319	360.3	.122	1504.1	25.0
30	13.160	33.191	24.961	299.3	.139	1499.6	30.2
35	16.210	34.658	25.438	254.2	.153	1511.3	35.2
40	13.925	34.445	25.774	222.2	.165	1503.9	40.2
45	13.431	34.564	25.969	203.9	.176	1502.5	45.2
50	11.166	34.191	26.116	189.8	.185	1494.4	50.2
55	11.169	34.411	26.287	173.7	.194	1494.7	55.2
60	12.628	34.991	26.461	157.5	.203	1500.6	60.2
65	12.900	35.065	26.464	157.4	.211	1501.7	65.4
70	12.725	35.062	26.497	154.4	.219	1501.2	70.4
75	12.226	34.978	26.529	151.3	.226	1499.4	75.4
80	11.732	34.936	26.591	145.5	.234	1497.8	80.4
85	11.508	34.967	26.657	139.4	.241	1497.1	85.4
90	11.341	34.968	26.689	136.5	.247	1496.6	90.0

DTH	TEM	SAL	DXG	PHOS	NITR	SIL	NO2	AMM
19	24.320	34.760						
37	16.320	34.257						
59	11.900	34.598						
90		34.908						

SIGMA-T

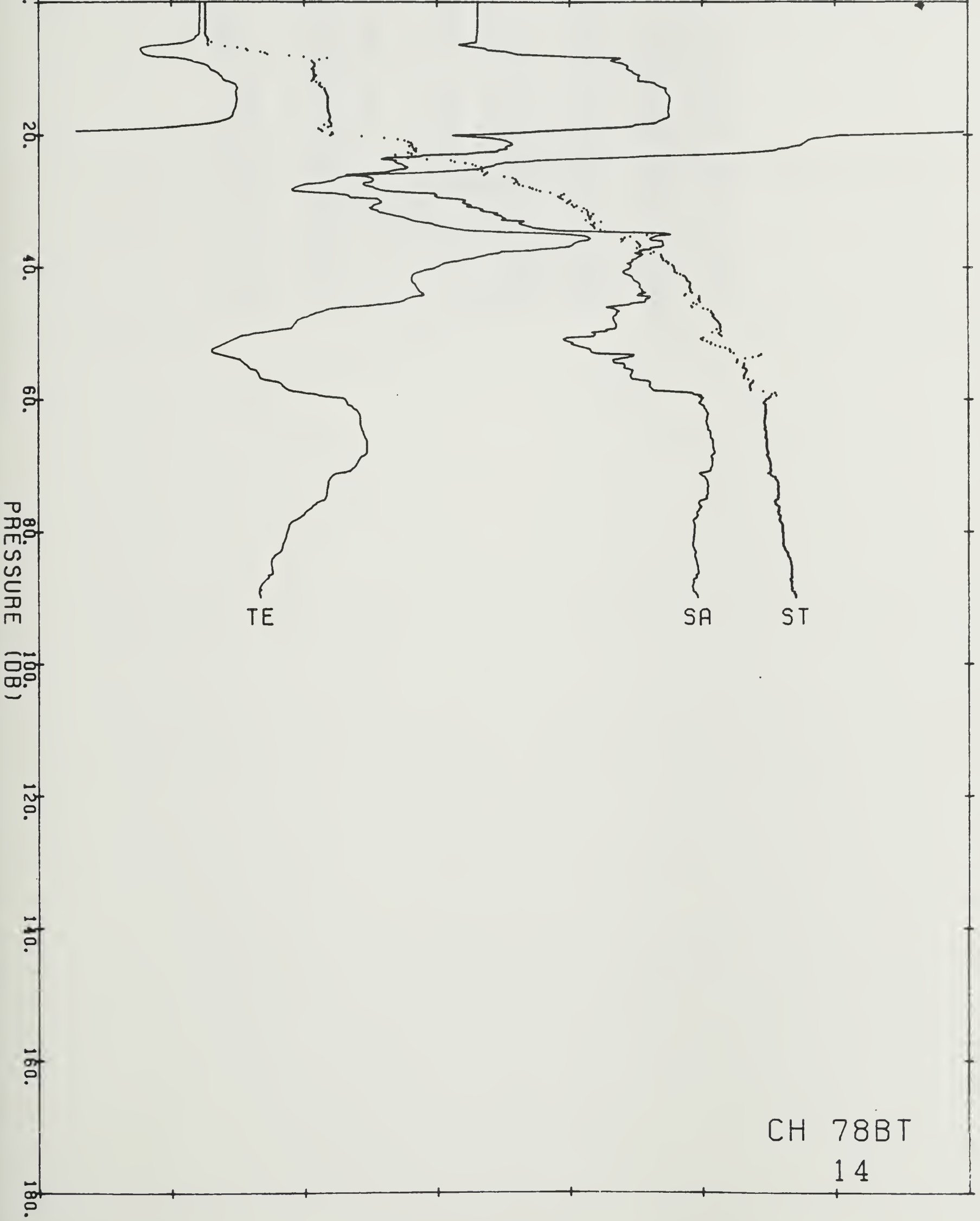
21. 22. 23. 24. 25. 26. 27. 28.

SALINITY (PPT)

30. 31. 32. 33. 34. 35. 36. 37.

TEMPERATURE (DEG C)

8. 10. 12. 14. 16. 18. 20. 22.



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SA

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PRESSURE (DB)

CH 78BT
14

SHIP CH CRUISE 78-BT STATION 15 POSITION 40 16.09 N 71 9.00 W °
LOCAL TIME 2030 DATE 78/ 8/16 WIND = knots DIR = DEPTH= 95M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	24.712	33.432	22.245	557.7	0.000	1532.4	0.0
5	24.606	33.412	22.262	556.2	.028	1532.2	5.0
10	24.532	34.338	22.984	487.4	.054	1533.1	10.0
15	24.950	34.693	23.126	474.0	.078	1534.6	15.0
20	24.708	34.691	23.198	467.3	.102	1534.1	20.0
25	19.110	33.192	23.613	427.7	.124	1517.9	25.0
30	12.759	32.677	24.642	329.6	.144	1497.6	30.2
35	13.602	33.478	25.094	286.7	.159	1501.6	35.2
40	15.982	34.680	25.507	247.8	.172	1510.7	40.2
45	14.746	34.626	25.740	225.7	.184	1506.9	45.2
50	13.683	34.580	25.929	207.7	.195	1503.4	50.2
55	12.253	34.400	26.075	193.9	.205	1498.5	55.2
60	11.189	34.436	26.302	172.4	.214	1494.9	60.2
65	12.174	34.874	26.459	157.7	.222	1499.0	65.2
70	12.858	35.087	26.489	155.0	.231	1501.6	70.4
75	12.601	35.058	26.518	152.4	.238	1500.8	75.4
80	11.717	34.914	26.577	146.9	.246	1497.7	80.4
85	11.711	34.939	26.597	145.1	.253	1497.8	85.4
90	11.529	34.931	26.625	142.5	.259	1497.2	89.8

SIGMA-T

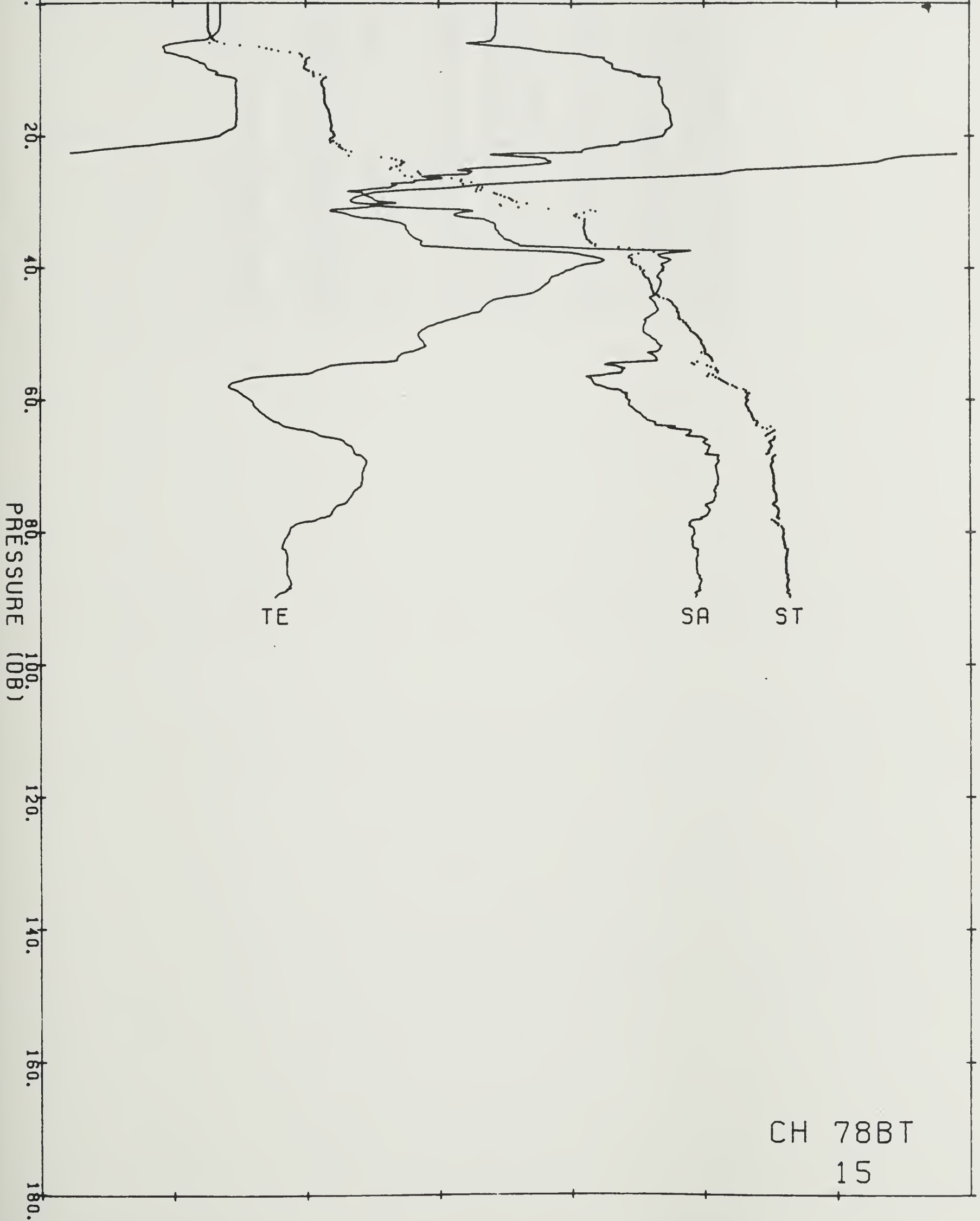
21. 22. 23. 24. 25. 26. 27. 28.

SALINITY (PPT)

30. 31. 32. 33. 34. 35. 36. 37.

TEMPERATURE (DEG C)

8. 10. 12. 14. 16. 18. 20. 22.



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CH 78BT
15

SHIP CH CRUISE 78-BT STATION 16 POSITION 40 16.30 N 71 8.90 W
LOCAL TIME 2043 DATE 78/ 8/16 WIND = knots DIR = DEPTH= 95M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	24.751	33.447	22.245	557.7	0.000	1532.5	0.0
5	24.692	33.462	22.274	555.1	.028	1532.5	5.0
10	24.694	34.466	23.032	482.8	.054	1533.7	10.0
15	24.944	34.719	23.147	472.0	.078	1534.6	15.0
20	24.644	34.615	23.160	471.0	.101	1533.9	20.0
25	20.384	33.628	23.616	427.5	.124	1522.0	25.0
30	12.743	32.593	24.580	335.5	.144	1497.5	30.2
35	13.569	33.416	25.053	290.6	.159	1501.4	35.2
40	15.985	34.698	25.520	246.5	.173	1510.8	40.2
45	14.651	34.636	25.768	223.0	.184	1506.6	45.2
50	13.794	34.678	25.982	202.7	.195	1503.9	50.2
55	11.860	34.329	26.095	192.0	.205	1497.0	55.2
60	11.244	34.465	26.315	171.2	.214	1495.1	60.2
65	12.123	34.851	26.450	158.5	.222	1498.8	65.2
70	12.792	35.087	26.503	153.8	.230	1501.4	70.4
75	12.639	35.084	26.531	151.2	.238	1501.0	75.4
80	11.734	34.917	26.575	147.0	.245	1497.8	80.4
85	11.689	34.963	26.620	142.9	.253	1497.7	85.4
90	11.418	34.929	26.645	140.6	.259	1496.8	90.0

SIGMA-T

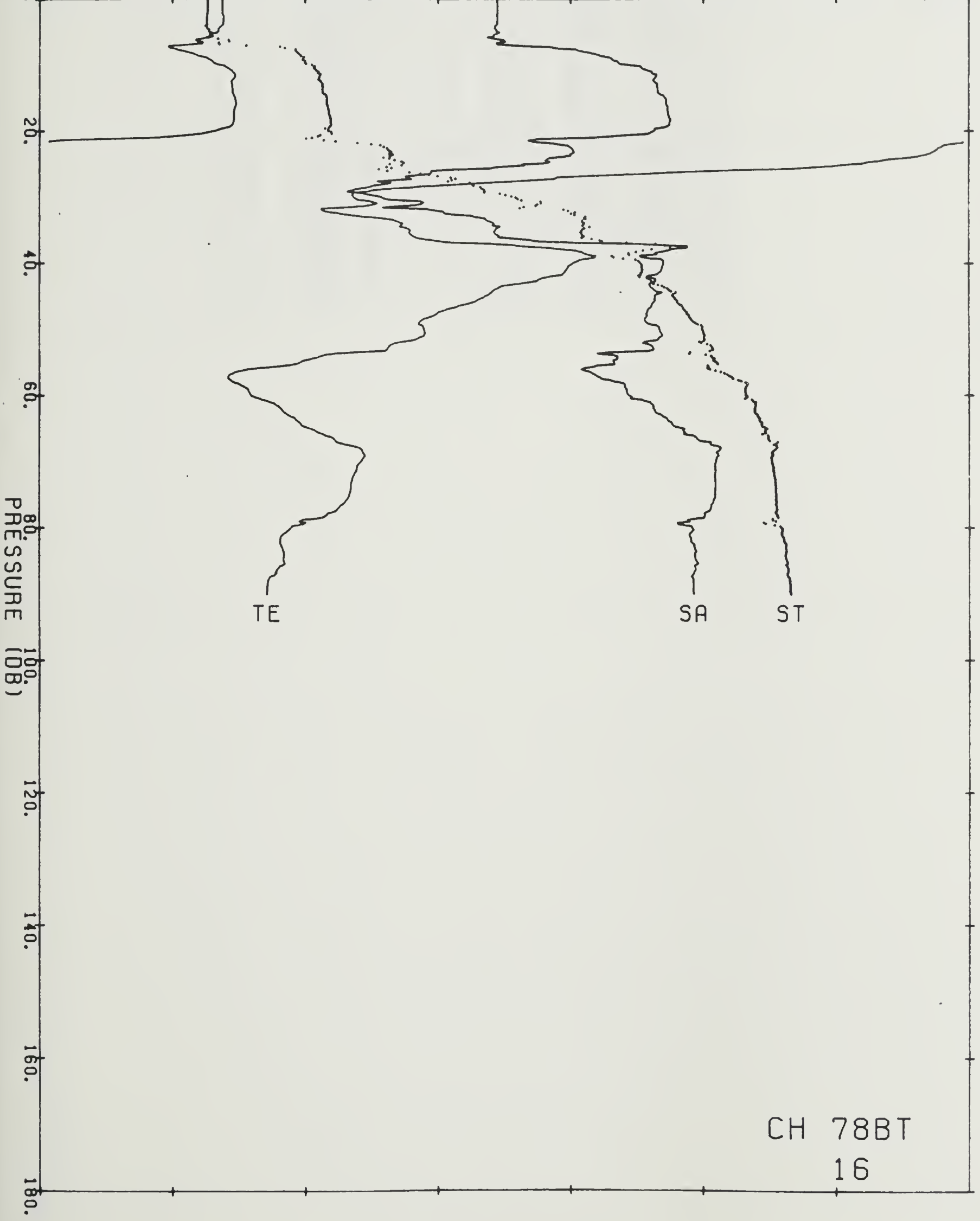
21. 22. 23. 24. 25. 26. 27. 28.

SALINITY (PPT)

30. 31. 32. 33. 34. 35. 36. 37.

TEMPERATURE (DEG C)

8. 10. 12. 14. 16. 18. 20. 22.

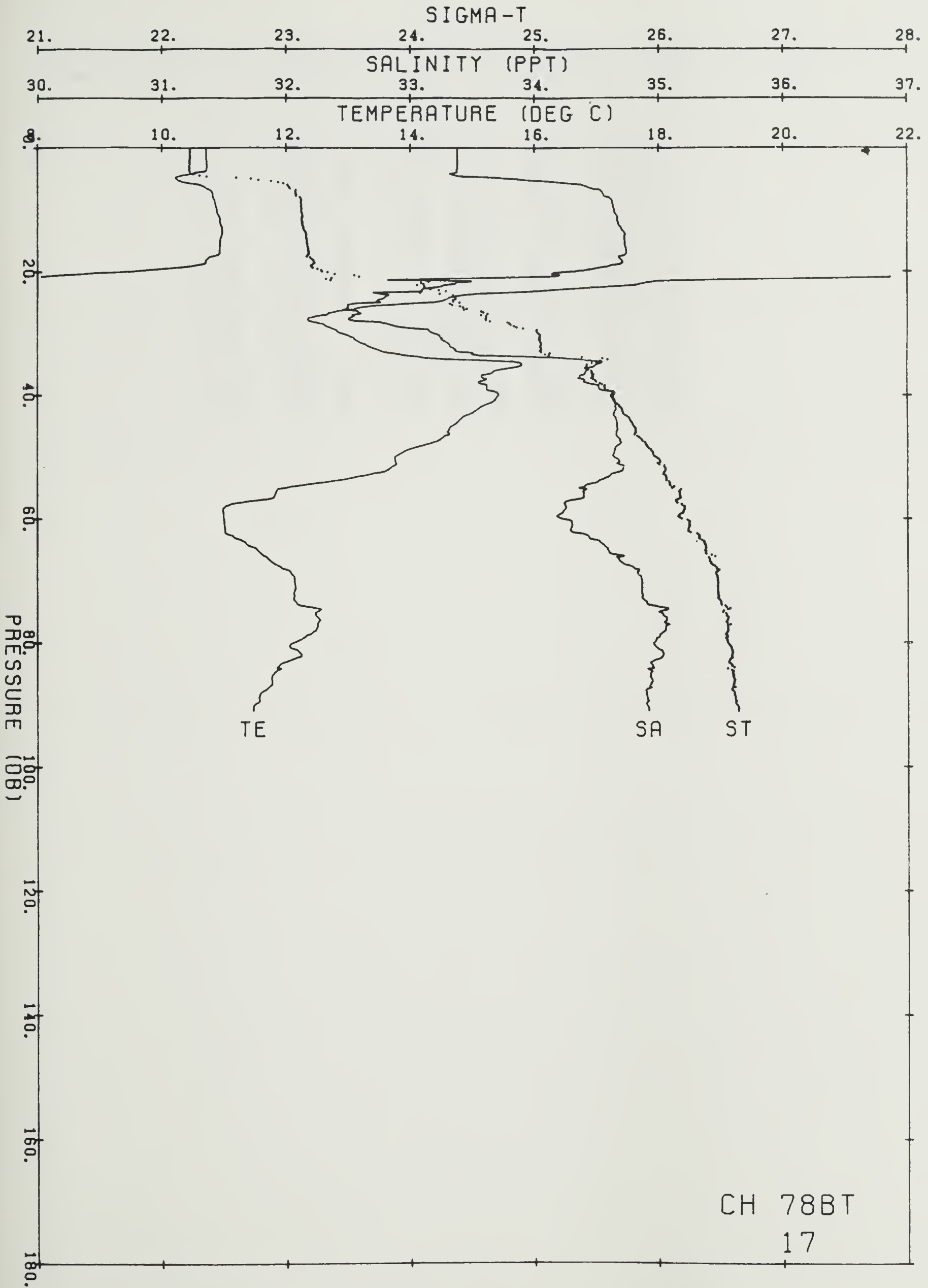


CH 78BT

16

SHIP CH CRUISE 78-BT STATION 17 POSITION 40 16.40 N 71 8.60 W
LOCAL TIME 2133 DATE 78/ 8/16 WIND = knots DIR = DEPTH= 93M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	24.717	33.381	22.205	561.5	0.000	1532.3	0.0
5	24.220	33.838	22.699	514.5	.027	1531.7	5.0
10	24.888	34.644	23.108	475.6	.052	1534.3	10.0
15	24.947	34.727	23.153	471.4	.075	1534.6	15.0
20	23.516	34.326	23.275	460.0	.099	1530.8	20.0
25	14.380	32.762	24.380	354.5	.119	1503.1	25.0
30	12.944	33.218	25.025	293.2	.136	1498.9	30.2
35	15.784	34.485	25.401	257.6	.150	1509.8	35.2
40	15.405	34.635	25.602	238.7	.162	1508.9	40.2
45	14.642	34.665	25.792	220.7	.173	1506.6	45.2
50	13.746	34.658	25.977	203.3	.184	1503.7	50.2
55	11.862	34.420	26.165	185.3	.194	1497.2	55.2
60	11.000	34.280	26.215	180.6	.203	1494.0	60.2
65	11.575	34.599	26.359	167.2	.212	1496.6	65.4
70	12.141	34.869	26.461	157.7	.220	1498.9	70.4
75	12.468	35.036	26.527	151.5	.228	1500.3	75.4
80	12.050	34.966	26.554	149.1	.235	1498.9	80.4
85	11.767	34.929	26.578	146.8	.243	1498.0	85.4
90	11.466	34.918	26.626	142.4	.250	1497.0	90.4
91	11.464	34.919	26.628	142.2	.251	1497.0	91.0



SHIP CH CRUISE 78-BT STATION 18 POSITION 40 16.50 N 71 8.40 W
LOCAL TIME 2200 DATE 78/ 8/16 WIND = knots DIR = DEPTH= 93M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	24.650	33.382	22.226	559.5	0.000	1532.2	0.0
5	24.215	33.954	22.788	506.0	.027	1531.9	5.0
10	24.926	34.683	23.126	473.9	.051	1534.5	10.0
15	24.989	34.729	23.142	472.5	.075	1534.7	15.0
20	23.973	34.555	23.314	456.2	.098	1532.2	20.0
25	16.132	33.003	24.183	373.3	.119	1508.9	25.0
30	13.866	33.315	24.914	303.7	.136	1502.1	30.2
35	15.238	34.178	25.287	268.5	.151	1507.7	35.2
40	15.460	34.651	25.602	238.6	.163	1509.1	40.2
45	14.621	34.680	25.808	219.2	.175	1506.5	45.2
50	13.846	34.703	25.991	201.9	.185	1504.1	50.2
55	12.624	34.499	26.080	193.5	.195	1499.9	55.2
60	11.086	34.322	26.233	178.9	.205	1494.4	60.2
65	11.512	34.612	26.380	165.1	.213	1496.3	65.4
70	11.949	34.808	26.451	158.6	.222	1498.2	70.4
75	12.530	35.135	26.592	145.5	.229	1500.7	75.4
80	12.178	35.012	26.565	148.1	.236	1499.4	80.4
85	11.788	34.947	26.589	145.9	.244	1498.1	85.4
89	11.590	34.885	26.578	146.9	.249	1497.4	89.0

SIGMA-T

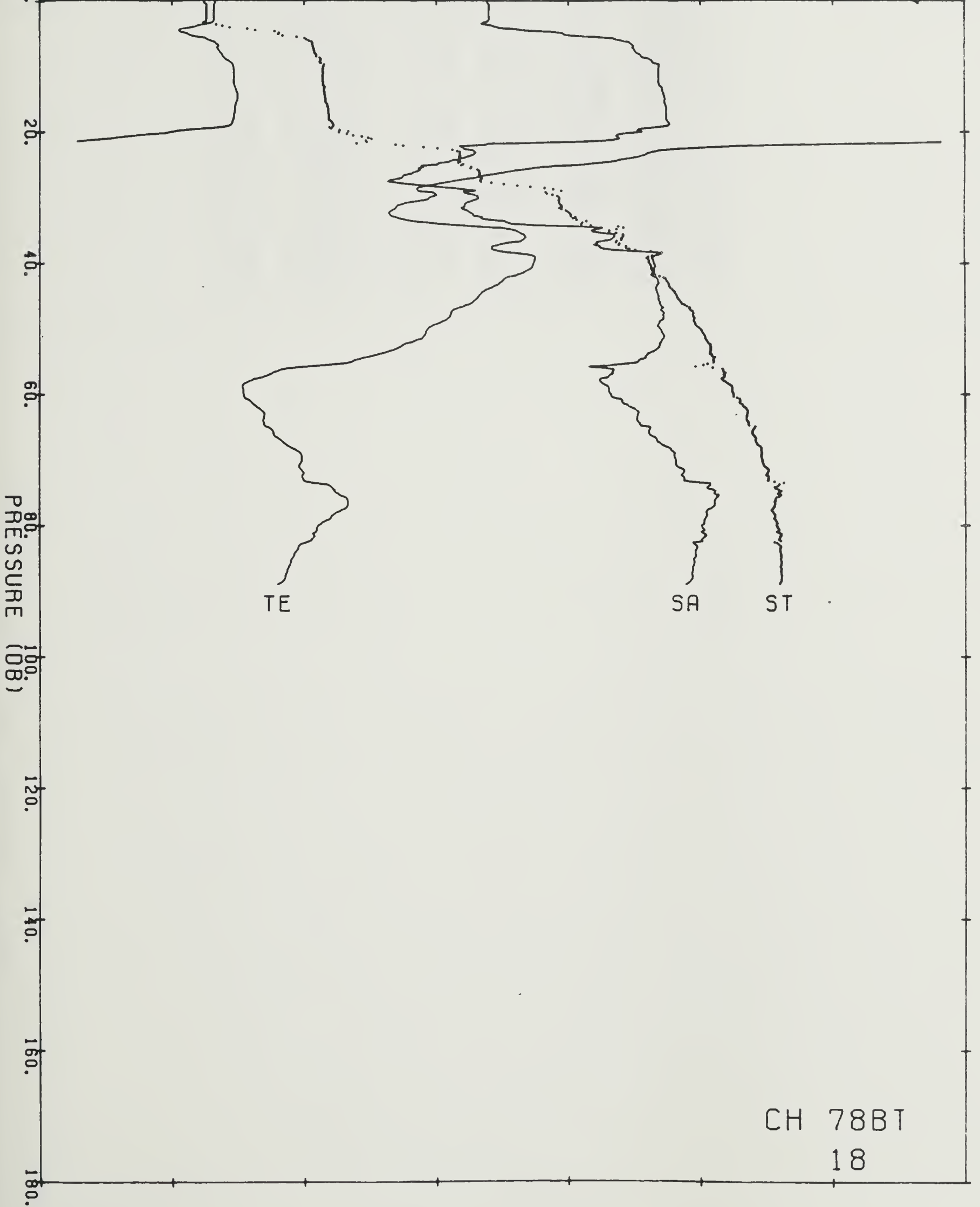
21. 22. 23. 24. 25. 26. 27. 28.

SALINITY (PPT)

30. 31. 32. 33. 34. 35. 36. 37.

TEMPERATURE (DEG C)

8. 10. 12. 14. 16. 18. 20. 22.



CH 78BT
18

SHIP CH CRUISE 78-BT STATION 19 POSITION 40 16.70 N 71 8.20 W
LOCAL TIME 2230 DATE 78/ 8/16 WIND = knots DIR = DEPTH= 93M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	24.360	33.382	22.312	551.3	0.000	1531.5	0.0
5	24.154	33.841	22.721	512.4	.027	1531.6	5.0
10	24.749	34.620	23.132	473.3	.051	1534.0	10.0
15	24.951	34.746	23.166	470.2	.075	1534.7	15.0
20	23.738	34.501	23.343	453.5	.098	1531.6	20.0
25	17.589	33.404	24.151	376.4	.119	1513.8	25.0
30	16.056	33.408	24.512	342.1	.137	1509.2	30.2
35	14.004	33.801	25.260	270.9	.153	1503.3	35.2
40	16.005	34.647	25.476	250.7	.166	1510.8	40.2
45	14.977	34.693	25.741	225.6	.178	1507.7	45.2
50	13.969	34.701	25.963	204.5	.188	1504.5	50.2
55	13.124	34.631	26.083	193.3	.198	1501.7	55.2
60	11.315	34.360	26.220	180.2	.208	1495.3	60.2
65	11.770	34.622	26.339	169.0	.217	1497.3	65.4
70	12.029	34.820	26.444	159.3	.225	1498.5	70.4
75	11.932	34.933	26.550	149.3	.233	1498.4	75.4
80	12.111	35.017	26.582	146.5	.240	1499.2	80.4
85	11.915	34.995	26.602	144.6	.247	1498.6	85.4
90	11.807	34.971	26.604	144.5	.254	1498.2	89.8

SIGMA-T

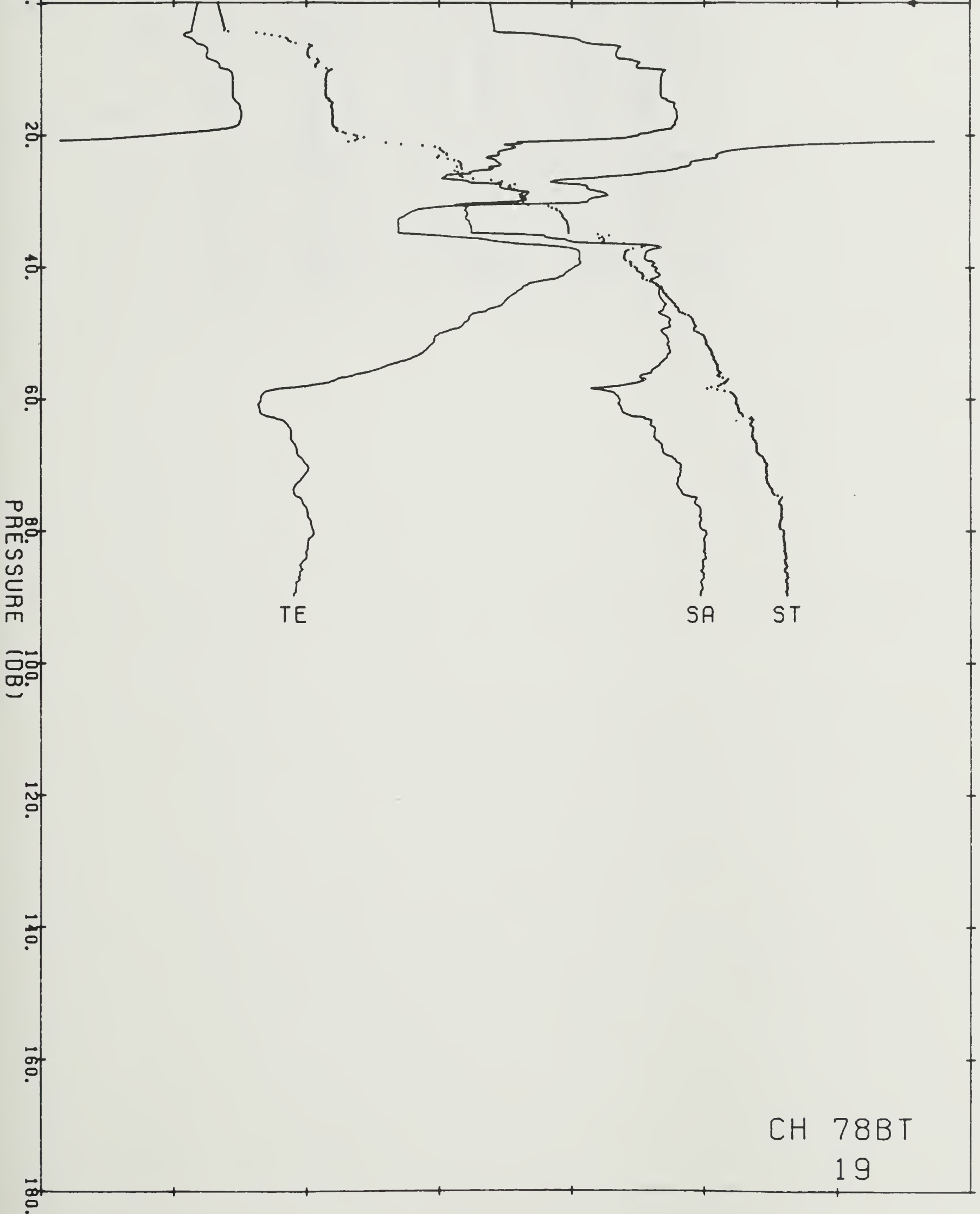
21. 22. 23. 24. 25. 26. 27. 28.

SALINITY (PPT)

30. 31. 32. 33. 34. 35. 36. 37.

TEMPERATURE (DEG C)

8. 10. 12. 14. 16. 18. 20. 22.



CH 78BT
19

SHIP CH CRUISE 78-BT STATION 20 POSITION 40 16.90 N 71 8.00 W
LOCAL TIME 2300 DATE 78/ 8/16 WIND = knots DIR = DEPTH= 93M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	24.455	33.322	22.239	558.3	0.000	1531.6	0.0
5	23.648	33.791	22.832	501.8	.027	1530.3	5.0
10	24.436	34.395	23.055	480.6	.051	1533.0	10.0
15	24.635	34.566	23.126	474.1	.075	1533.7	15.0
20	20.272	33.699	23.699	419.4	.097	1521.7	20.0
25	16.913	33.371	24.285	363.6	.117	1511.7	25.0
30	14.368	33.257	24.765	318.0	.135	1503.7	30.2
35	14.508	33.947	25.267	270.3	.149	1505.1	35.2
40	14.386	34.105	25.415	256.4	.162	1505.0	40.2
45	15.449	34.671	25.620	237.1	.175	1509.1	45.2
50	14.369	34.730	25.901	210.5	.186	1505.9	50.2
55	13.611	34.733	26.063	195.2	.196	1503.5	55.2
60	11.952	34.564	26.260	176.4	.205	1497.7	60.2
65	11.783	34.612	26.330	169.9	.214	1497.3	65.4
70	11.889	34.710	26.386	164.8	.223	1497.9	70.4
75	11.790	34.808	26.481	155.9	.231	1497.7	75.4
80	11.829	34.929	26.567	147.8	.238	1498.1	80.4
85	12.076	34.985	26.563	148.3	.246	1499.1	85.4
90	11.719	34.953	26.607	144.3	.253	1497.9	90.0

SIGMA-T

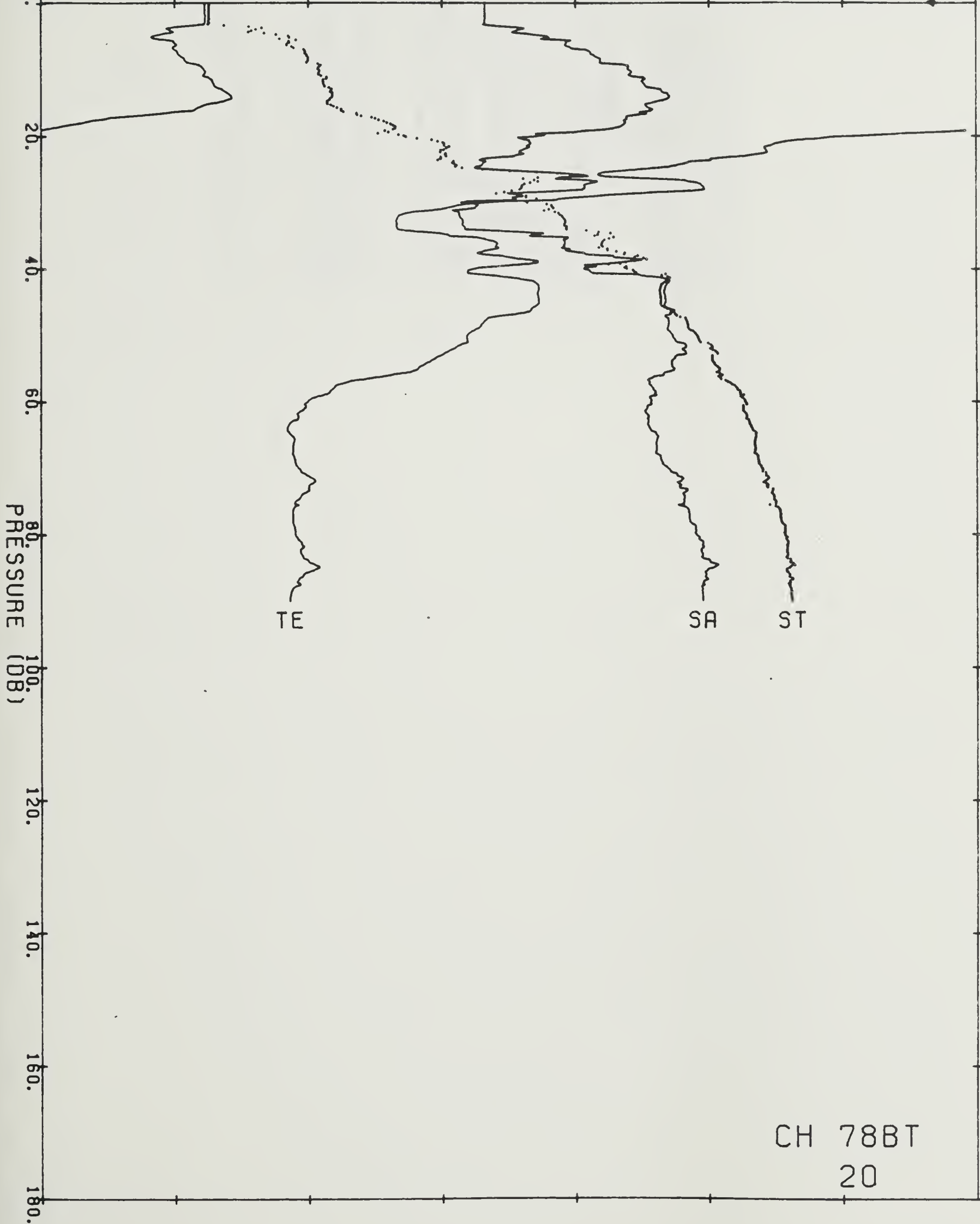
21. 22. 23. 24. 25. 26. 27. 28.

SALINITY (PPT)

30. 31. 32. 33. 34. 35. 36. 37.

TEMPERATURE (DEG C)

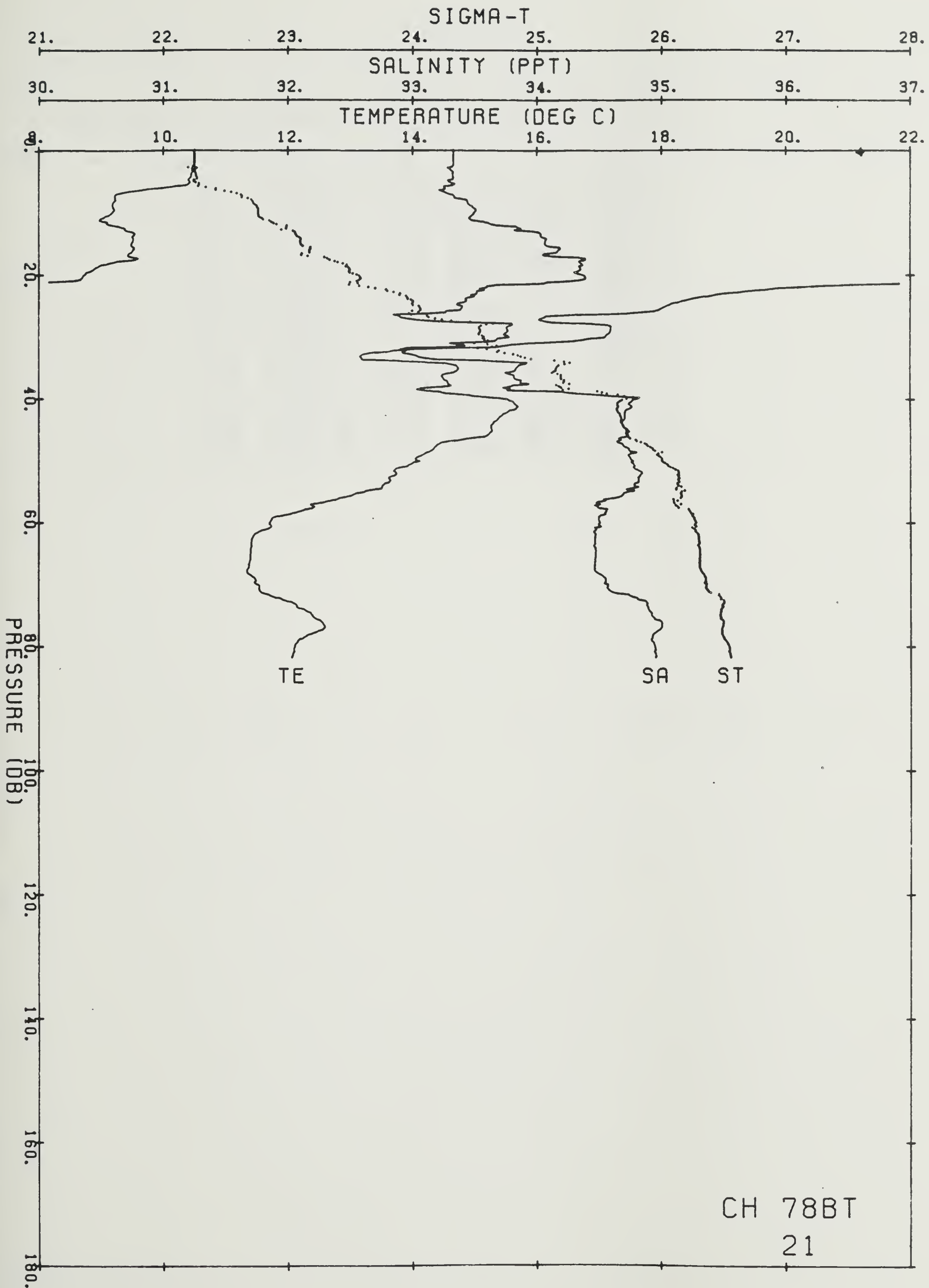
8. 10. 12. 14. 16. 18. 20. 22.



CH 78BT
20

SHIP CH CRUISE 78-BT STATION 21 POSITION 40 16.90 N 71 7.50 W
LOCAL TIME 2330 DATE 78/ 8/16 WIND = knots DIR = DEPTH= 91M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	24.493	33.327	22.231	559.0	0.000	1531.7	0.0
5	24.420	33.288	22.224	559.9	.028	1531.6	5.0
10	23.168	33.491	22.743	510.4	.055	1528.8	10.0
15	23.485	34.063	23.085	477.9	.079	1530.4	15.0
20	22.713	34.363	23.535	435.2	.102	1528.9	20.0
25	18.062	33.396	24.030	387.9	.123	1515.2	25.0
30	16.838	33.680	24.540	339.4	.142	1512.0	30.2
35	14.729	33.825	25.126	283.8	.157	1505.7	35.2
40	15.556	34.762	25.666	232.6	.170	1509.5	40.2
45	15.272	34.742	25.714	228.2	.182	1508.7	45.2
50	14.012	34.756	25.997	201.3	.193	1504.7	50.2
55	13.090	34.693	26.138	188.0	.202	1501.7	55.2
60	11.693	34.492	26.253	177.1	.211	1496.7	60.2
65	11.391	34.469	26.292	173.5	.220	1495.7	65.2
70	11.540	34.566	26.339	169.1	.229	1496.5	70.4
75	12.429	34.944	26.464	157.6	.237	1500.1	75.4
80	12.090	34.949	26.533	151.1	.245	1499.0	80.4
81	12.056	34.952	26.542	150.3	.247	1498.9	81.8



SHIP CH CRUISE 78-BT STATION 22 POSITION 40 17.09 N 71 7.40 W
LOCAL TIME 1 DATE 78/ 8/17 WIND = knots DIR = DEPTH= 91M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	24.518	33.336	22.231	559.1	0.000	1531.8	0.0
5	24.487	33.333	22.238	558.6	.028	1531.8	5.0
10	23.244	33.309	22.583	525.7	.055	1528.8	10.0
15	22.481	34.056	23.367	450.9	.079	1527.8	15.0
20	19.616	33.356	23.609	428.0	.101	1519.5	20.0
25	16.475	32.922	24.043	386.7	.122	1509.9	25.0
30	16.483	33.230	24.277	364.5	.141	1510.3	30.2
35	14.566	33.611	24.995	296.2	.158	1504.9	35.2
40	15.919	34.741	25.568	242.0	.171	1510.6	40.2
45	15.324	34.677	25.653	234.0	.183	1508.8	45.2
50	14.392	34.700	25.873	213.2	.194	1505.9	50.2
55	13.563	34.780	26.109	190.8	.204	1503.4	55.2
60	11.905	34.472	26.198	182.4	.214	1497.5	60.2
65	11.411	34.474	26.292	173.5	.223	1495.8	65.2
70	11.590	34.617	26.369	166.3	.232	1496.7	70.4
75	12.262	34.936	26.490	155.1	.240	1499.5	75.4
80	12.164	34.956	26.524	151.9	.247	1499.3	80.4
85	11.830	34.936	26.573	147.4	.255	1498.2	85.4
90	11.748	34.953	26.601	144.8	.261	1498.0	90.0

SIGMA-T

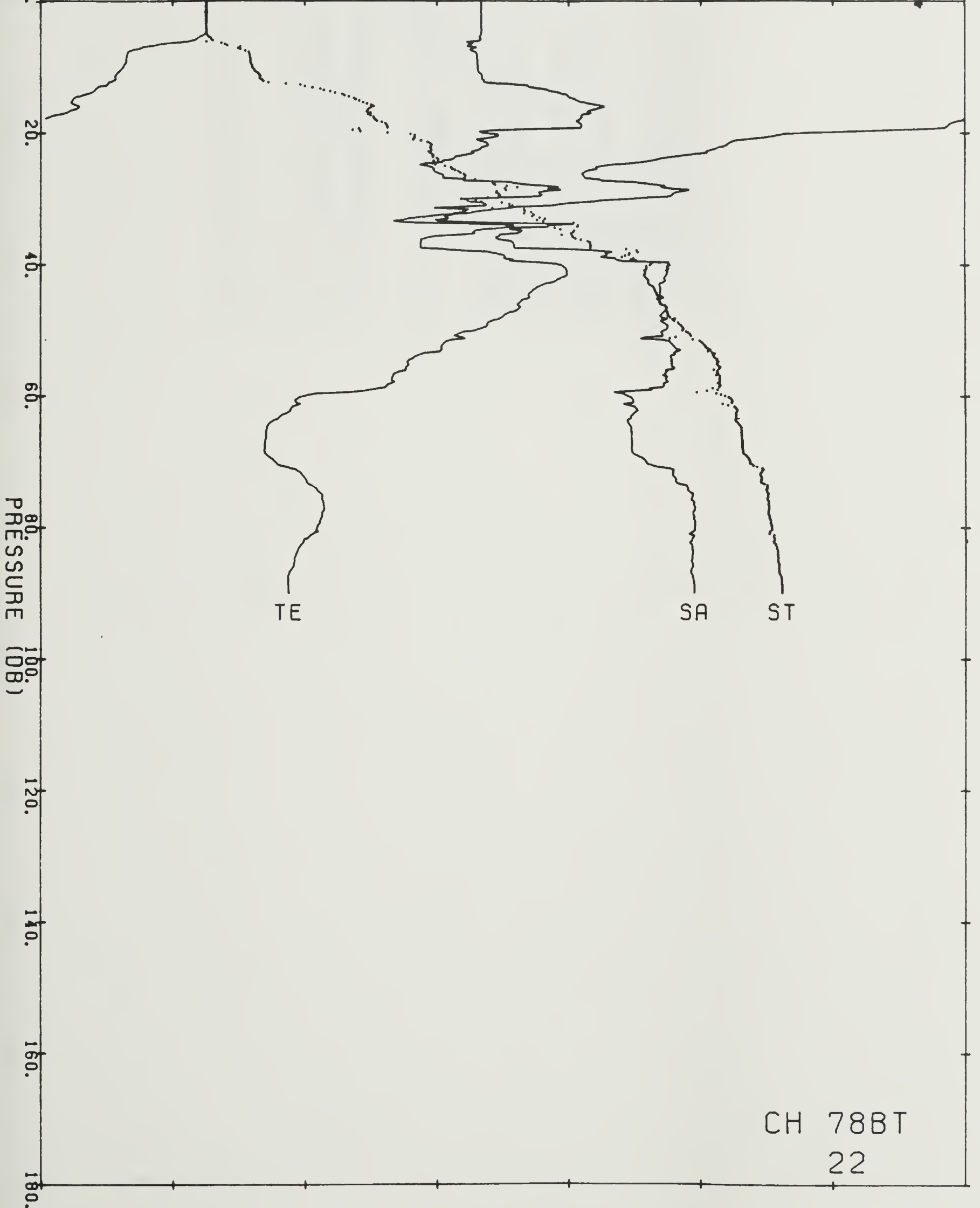
21. 22. 23. 24. 25. 26. 27. 28.

SALINITY (PPT)

30. 31. 32. 33. 34. 35. 36. 37.

TEMPERATURE (DEG C)

8. 10. 12. 14. 16. 18. 20. 22.



SHIP CH CRUISE 78-BT STATION 23 POSITION 40 17.30 N 71 7.40 W
LOCAL TIME 31 DATE 78/ 8/17 WIND = knots DIR = DEPTH= 90M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	24.559	33.217	22.129	568.8	0.000	1531.8	0.0
5	24.461	33.319	22.235	558.8	.028	1531.7	5.0
10	23.392	33.305	22.538	530.1	.055	1529.2	10.0
15	22.270	34.042	23.416	446.3	.080	1527.3	15.0
20	18.077	33.270	23.929	397.4	.101	1515.0	20.0
25	17.643	33.781	24.426	350.2	.120	1514.4	25.0
30	15.711	33.871	24.945	300.9	.137	1508.7	30.2
35	15.264	34.308	25.382	259.5	.151	1507.9	35.2
40	16.149	34.726	25.503	248.1	.163	1511.3	40.2
45	15.399	34.730	25.677	231.7	.175	1509.1	45.2
50	14.810	34.775	25.841	216.2	.186	1507.3	50.2
55	13.958	34.790	26.035	197.9	.197	1504.7	55.2
60	11.840	34.439	26.185	183.6	.206	1497.2	60.2
65	11.431	34.490	26.300	172.7	.216	1495.9	65.4
70	11.926	34.754	26.413	162.2	.224	1498.0	70.4
75	12.138	34.896	26.482	155.8	.232	1499.0	75.4
80	11.862	34.934	26.564	148.1	.239	1498.2	80.4
85	11.810	34.936	26.576	147.1	.247	1498.1	85.4
87	11.815	34.943	26.581	146.6	.249	1498.2	87.0

SIGMA-T

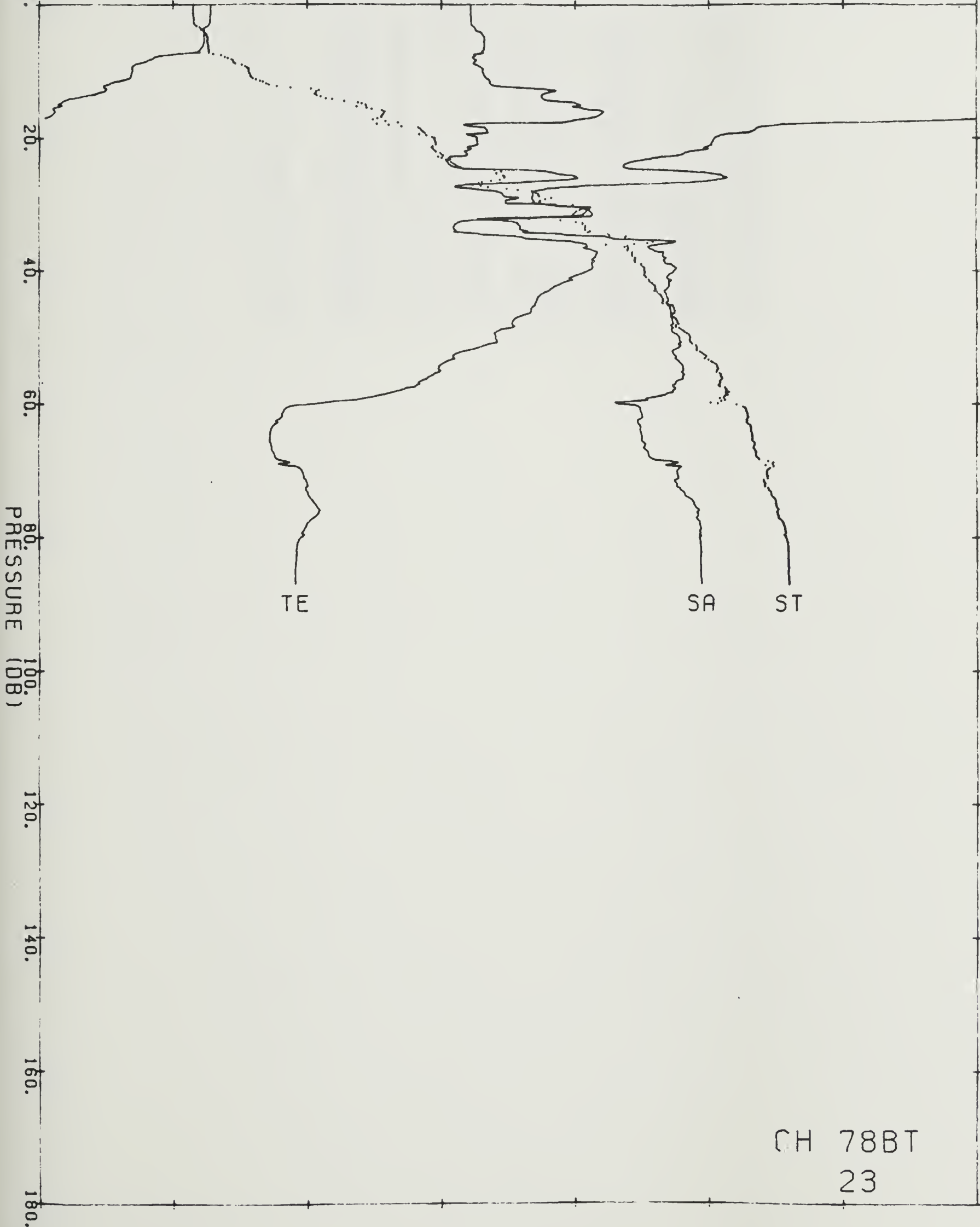
21. 22. 23. 24. 25. 26. 27. 28.

SALINITY (PPT)

30. 31. 32. 33. 34. 35. 36. 37.

TEMPERATURE (DEG C)

8. 10. 12. 14. 16. 18. 20. 22.



CH 78BT
23

SHIP CH CRUISE 78-BT STATION 24 POSITION 40 17.50 N 71 7.30 W
LOCAL TIME 102 DATE 78/ 8/17 WIND = knots DIR = DEPTH= 91M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	24.541	33.087	22.036	577.7	0.000	1531.6	0.0
5	24.514	33.169	22.105	571.2	.029	1531.7	5.0
10	23.235	33.461	22.701	514.4	.056	1529.0	10.0
15	22.788	34.221	23.405	447.3	.080	1528.8	15.0
20	18.714	33.288	23.786	411.1	.101	1516.8	20.0
25	18.283	33.732	24.233	368.6	.121	1516.2	25.0
30	17.337	34.191	24.814	313.4	.139	1514.1	30.2
35	16.826	34.587	25.239	273.1	.153	1513.1	35.2
40	16.051	34.728	25.527	245.8	.166	1511.0	40.2
45	15.271	34.681	25.667	232.6	.178	1508.6	45.2
50	15.188	34.758	25.745	225.4	.190	1508.5	50.2
55	14.544	34.827	25.938	207.1	.200	1506.6	55.2
60	12.808	34.571	26.099	191.8	.210	1500.7	60.2
65	11.581	34.569	26.334	169.5	.219	1496.5	65.2
70	11.948	34.796	26.441	159.5	.228	1498.2	70.4
75	11.995	34.926	26.533	150.9	.236	1498.6	75.4
80	11.899	34.927	26.552	149.2	.243	1498.3	80.4
85	11.894	34.935	26.559	148.7	.251	1498.4	85.4
88	11.879	34.938	26.564	148.3	.255	1498.4	88.0

SIGMA-T

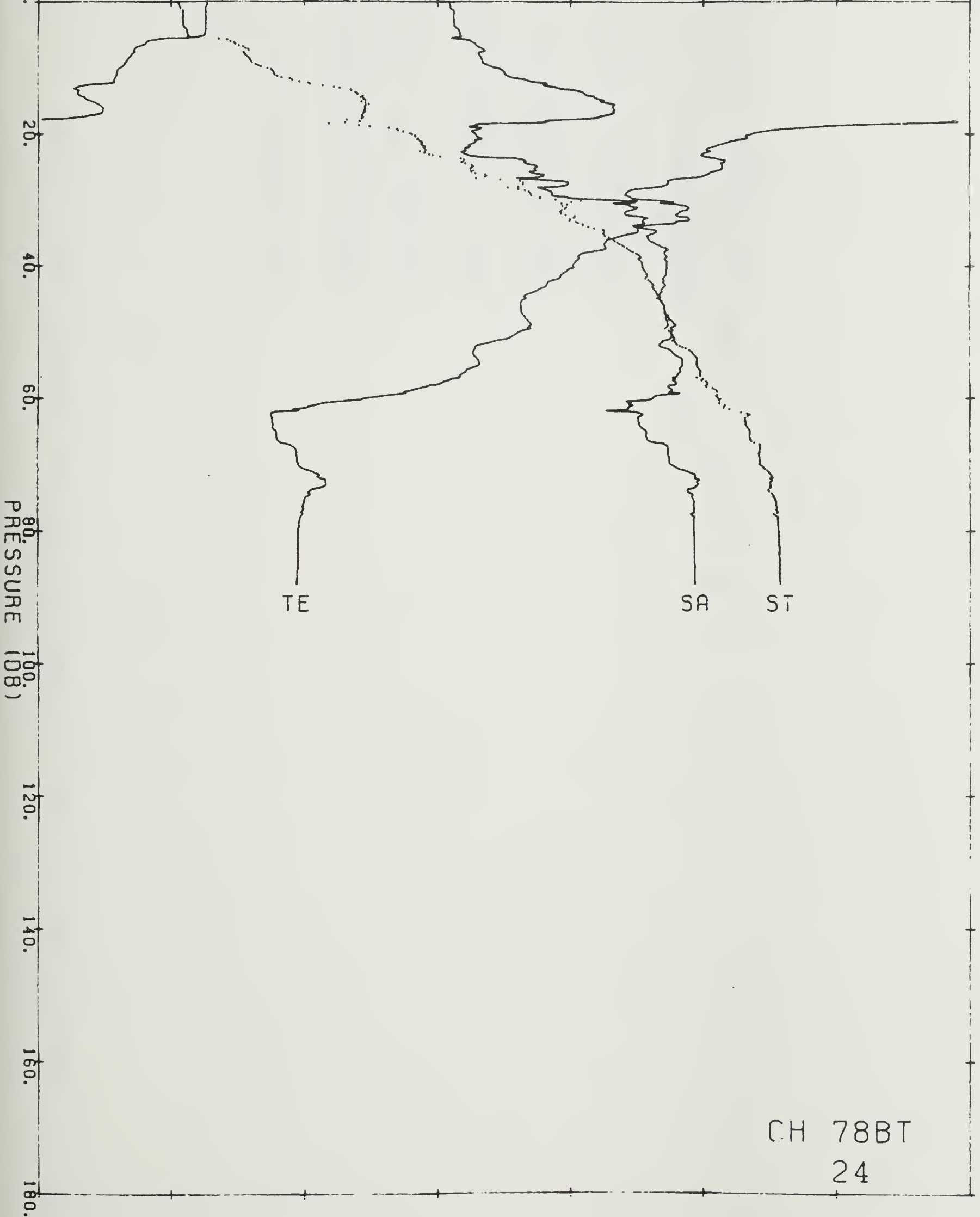
21. 22. 23. 24. 25. 26. 27. 28.

SALINITY (PPT)

30. 31. 32. 33. 34. 35. 36. 37.

TEMPERATURE (DEG C)

8. 10. 12. 14. 16. 18. 20. 22.



SHIP CH CRUISE 78-BT STATION 26 POSITION 40 18.20 N 71 7.30 W
LOCAL TIME 201 DATE 78/ 8/17 WIND = knots DIR = DEPTH= 89M

DTH	TEM	SAL	SGT	AND	DYN	SVL	PRS
0	24.601	32.896	21.874	593.2	0.000	1531.5	0.0
5	24.403	33.026	22.031	578.4	.029	1531.3	5.0
10	23.450	33.336	22.544	529.4	.057	1529.4	10.0
15	23.518	34.027	23.048	481.4	.082	1530.4	15.0
20	20.714	33.651	23.546	434.1	.105	1522.8	20.0
25	18.982	34.336	24.520	341.3	.125	1518.9	25.0
30	16.595	34.300	25.073	288.7	.141	1512.0	30.2
35	17.359	34.738	25.228	274.2	.155	1514.9	35.2
40	15.194	34.646	25.657	233.4	.168	1508.2	40.2
45	14.828	34.632	25.727	226.9	.179	1507.1	45.2
50	14.798	34.931	25.964	204.5	.190	1507.5	50.2
55	13.830	34.873	26.125	189.3	.200	1504.4	55.2
60	12.294	34.629	26.245	177.9	.209	1499.0	60.2
65	11.980	34.644	26.317	171.2	.218	1498.0	65.4
70	12.091	34.890	26.487	155.2	.226	1498.8	70.4
75	12.003	34.897	26.509	153.2	.234	1498.6	75.4
80	11.990	34.901	26.515	152.8	.242	1498.6	80.4
84	11.988	34.905	26.518	152.6	.247	1498.7	84.0

SIGMA-T

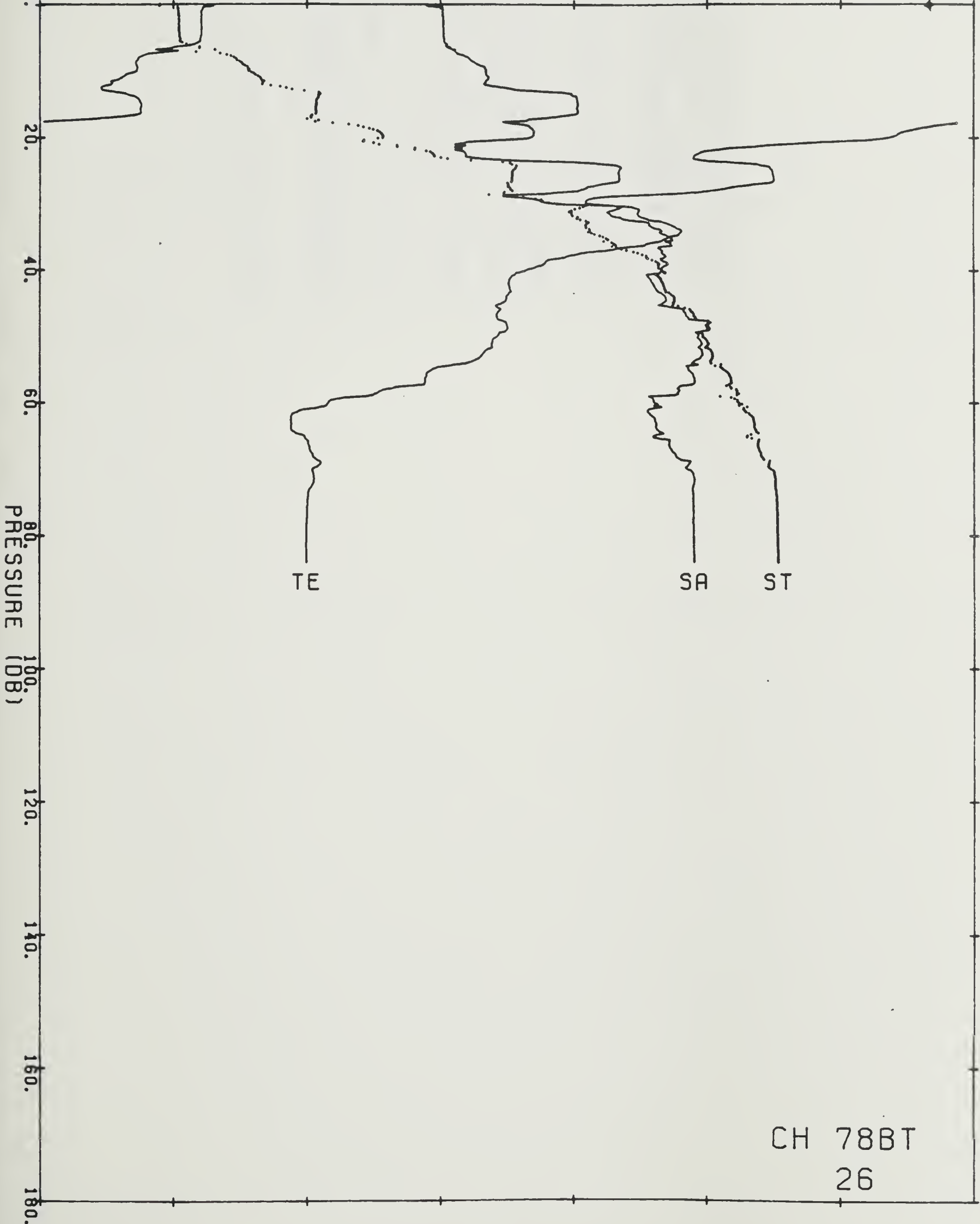
21. 22. 23. 24. 25. 26. 27. 28.

SALINITY (PPT)

30. 31. 32. 33. 34. 35. 36. 37.

TEMPERATURE (DEG C)

8. 10. 12. 14. 16. 18. 20. 22.



CH 78BT
26

SHIP CH CRUISE 78-BT STATION 27 POSITION 40 18.70 N 71 6.70 W
LOCAL TIME 231 DATE 78/ 8/17 WIND = ' knots DIR = DEPTH= 89M

DTH	TEM	SAL	SGT	AND	OYN	SVL	PRS
0	24.473	33.062	22.037	577.6	0.000	1531.4	0.0
5	24.382	33.063	22.065	575.1	.029	1531.3	5.0
10	23.291	33.376	22.621	522.1	.056	1529.0	10.0
15	23.158	33.669	22.881	497.5	.082	1529.1	15.0
20	19.778	33.451	23.639	425.1	.105	1520.0	20.0
25	19.383	34.629	24.641	329.8	.124	1520.4	25.0
30	18.758	34.576	24.760	318.6	.141	1518.7	30.2
35	17.464	34.751	25.213	275.6	.155	1515.2	35.2
40	15.495	34.672	25.610	237.9	.168	1509.2	40.2
45	14.708	34.663	25.776	222.2	.180	1506.8	45.2
50	14.801	35.009	26.023	198.9	.190	1507.6	50.2
55	14.201	34.999	26.145	187.5	.200	1505.7	55.2
60	12.626	34.801	26.314	171.4	.209	1500.3	60.2
65	12.036	34.695	26.346	168.4	.218	1498.3	65.4
70	11.840	34.806	26.470	156.8	.226	1497.8	70.4
75	11.966	34.856	26.484	155.6	.234	1498.4	75.4
80	11.979	34.864	26.488	155.3	.241	1498.5	80.4
85	11.981	34.880	26.500	154.3	.249	1498.6	85.4
86	11.982	34.881	26.501	154.2	.250	1498.7	86.0

SIGMA-T

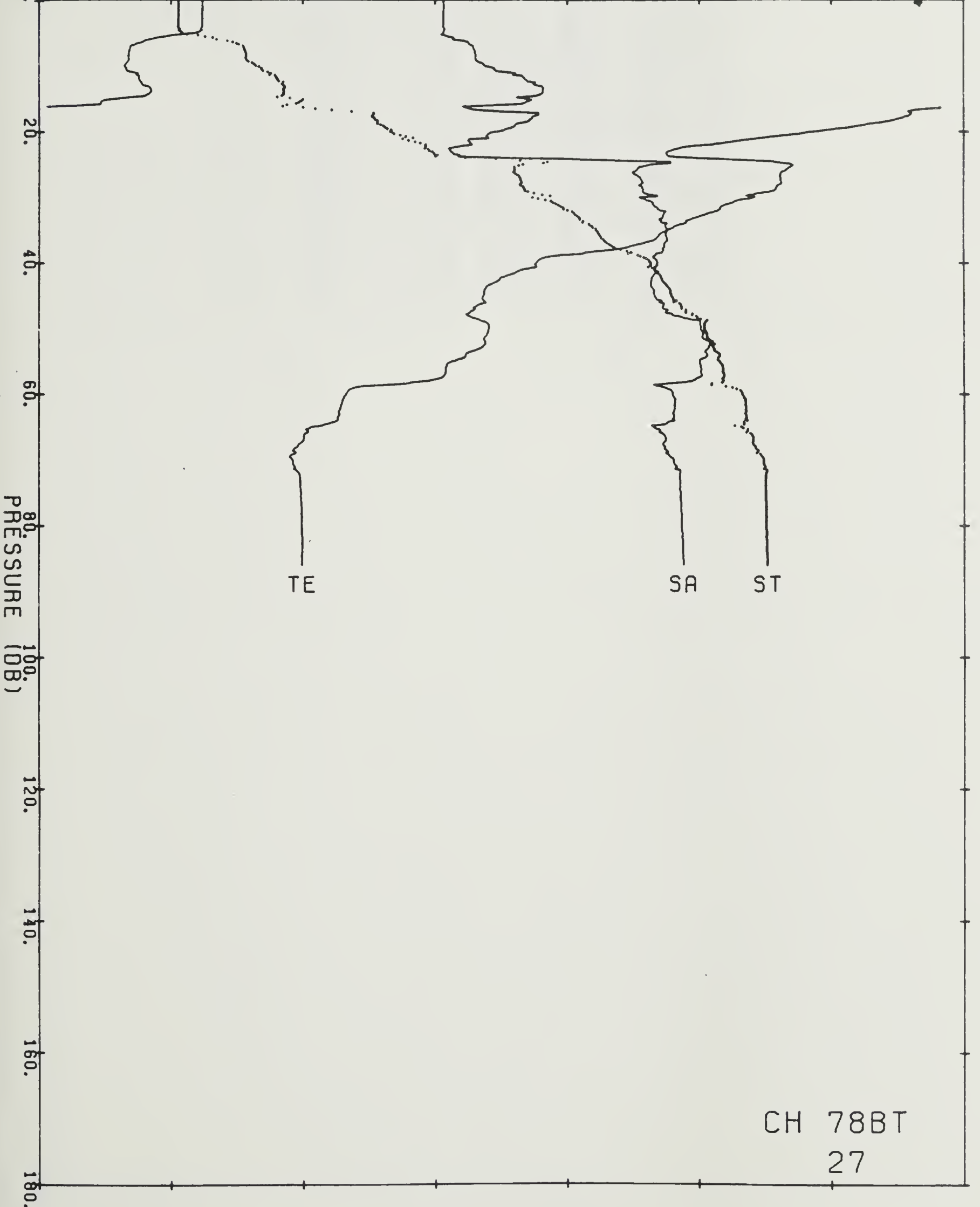
21. 22. 23. 24. 25. 26. 27. 28.

SALINITY (PPT)

30. 31. 32. 33. 34. 35. 36. 37.

TEMPERATURE (DEG C)

8. 10. 12. 14. 16. 18. 20. 22.



CH 78BT
27

SHIP CH CRUISE 78-BT STATION 28 POSITION 40 18.70 N 71 6.70 W
LOCAL TIME 259 DATE 78/ 8/17 WIND = knots DIR = DEPTH= 90M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	24.191	33.211	22.233	558.8	0.000	1530.9	0.0
5	23.541	33.546	22.677	516.6	.027	1529.7	5.0
10	22.139	33.880	23.329	454.4	.051	1526.7	10.0
15	18.656	33.395	23.883	401.7	.073	1516.7	15.1
20	19.321	34.651	24.673	326.6	.091	1520.2	20.1
25	18.983	34.746	24.832	311.6	.107	1519.4	25.1
30	17.486	34.730	25.192	277.5	.122	1515.2	30.1
35	16.044	34.737	25.536	244.8	.135	1510.9	35.1
40	15.259	34.830	25.784	221.3	.147	1508.7	40.2
45	14.024	34.533	25.822	217.8	.158	1504.4	45.2
50	12.427	34.437	26.071	194.2	.168	1499.0	50.2
55	11.514	34.407	26.220	180.1	.178	1495.9	55.3
60	12.118	34.696	26.331	169.7	.186	1498.5	60.3
65	12.008	34.752	26.396	163.7	.195	1498.2	65.3
70	11.830	34.766	26.441	159.5	.203	1497.7	70.4
75	11.889	34.778	26.438	159.9	.211	1498.0	75.4
80	11.940	34.811	26.454	158.5	.219	1498.3	80.4
85	11.989	34.832	26.461	158.0	.227	1498.6	85.4
88	11.996	34.836	26.463	157.9	.231	1498.7	88.0

SIGMA-T

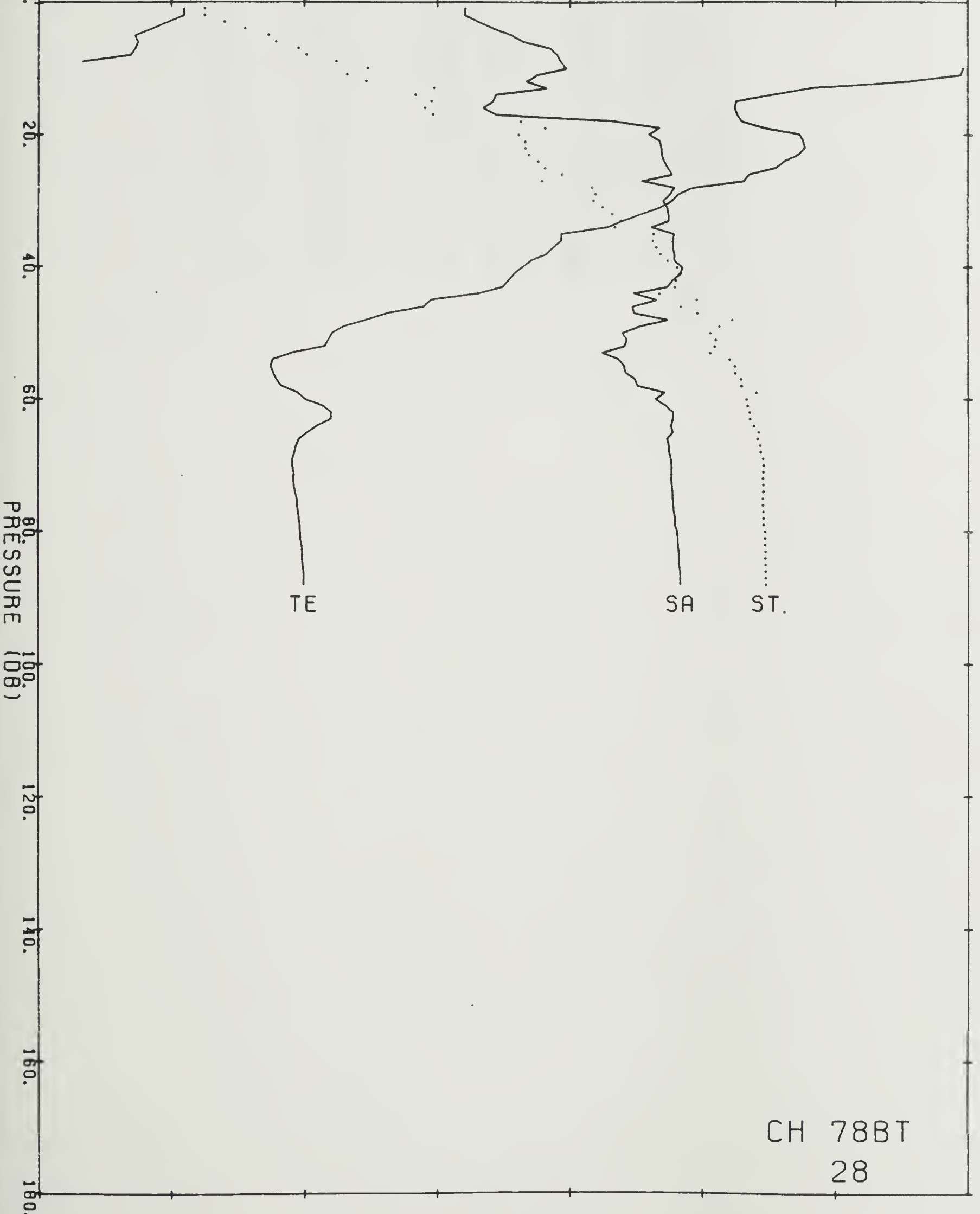
21. 22. 23. 24. 25. 26. 27. 28.

SALINITY (PPT)

30. 31. 32. 33. 34. 35. 36. 37.

TEMPERATURE (DEG C)

10. 12. 14. 16. 18. 20. 22.



PRESSURE (DB)

0.
20.
40.
60.
80.
100.
120.
140.
160.
180.

CH 78BT
28

SHIP CH CRUISE 78-BT STATION 29 POSITION 40 19.30 N 71 7.30 W
LOCAL TIME 331 DATE 78/ 8/17 WIND = knots DIR = DEPTH= 90M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	24.242	33.182	22.196	562.4	0.000	1531.0	0.0
5	23.440	33.548	22.708	513.6	.027	1529.5	5.0
10	22.877	34.272	23.419	445.9	.051	1529.0	10.0
15	19.303	33.563	23.847	405.1	.072	1518.8	15.0
20	18.815	34.318	24.548	338.5	.091	1518.3	20.0
25	19.000	34.867	24.921	303.2	.107	1519.6	25.2
30	17.490	34.793	25.239	273.0	.122	1515.2	30.2
35	15.953	34.849	25.643	234.7	.135	1510.8	35.2
40	15.299	34.839	25.783	221.5	.146	1508.8	40.2
45	14.506	34.825	25.945	206.1	.157	1506.3	45.2
50	13.660	34.698	26.026	198.6	.167	1503.5	50.2
55	11.350	34.409	26.252	177.0	.176	1495.4	55.2
60	11.508	34.495	26.290	173.6	.185	1496.1	60.2
65	12.086	34.737	26.369	166.2	.194	1498.5	65.4
70	11.775	34.757	26.444	159.3	.202	1497.5	70.4
75	11.702	34.760	26.460	157.8	.210	1497.4	75.4
80	11.817	34.810	26.477	156.3	.218	1497.9	80.4
85	11.916	34.830	26.474	156.8	.225	1498.4	85.2

SIGMA-T

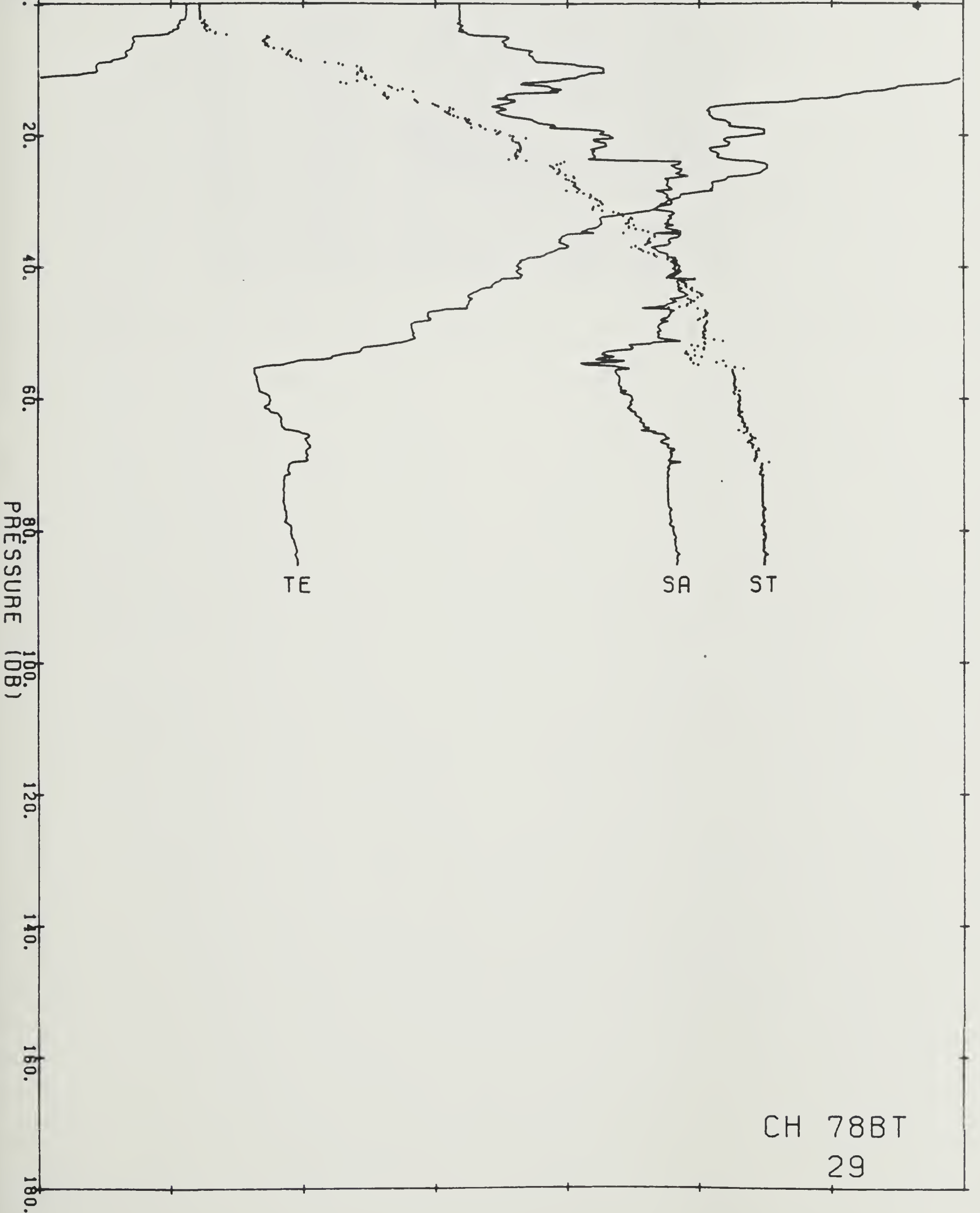
21. 22. 23. 24. 25. 26. 27. 28.

SALINITY (PPT)

30. 31. 32. 33. 34. 35. 36. 37.

TEMPERATURE (DEG C)

8. 10. 12. 14. 16. 18. 20. 22.



SHIP CH CRUISE 78-BT STATION 30 POSITION 40 19.80 N 71 7.60 W
LOCAL TIME 401 DATE 78/ 8/17 WIND = knots DIR = DEPTH= 90M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	24.395	33.154	22.130	568.7	0.000	1531.3	0.0
5	24.387	33.159	22.136	568.3	.028	1531.4	5.0
10	24.014	33.937	22.834	501.7	.055	1531.4	10.0
15	24.189	34.501	23.210	466.0	.079	1532.6	15.0
20	17.827	33.074	23.841	405.8	.101	1514.0	20.0
25	17.431	33.974	24.626	331.2	.120	1514.0	25.0
30	18.874	34.636	24.776	317.1	.136	1519.1	30.2
35	17.119	34.679	25.240	273.0	.151	1514.1	35.2
40	15.877	34.715	25.558	242.9	.164	1510.4	40.2
45	14.973	34.744	25.781	221.8	.176	1507.7	45.2
50	14.076	34.683	25.927	208.0	.186	1504.8	50.2
55	13.045	34.577	26.057	195.7	.197	1501.4	55.2
60	11.286	34.357	26.223	179.9	.206	1495.1	60.2
65	11.442	34.478	26.289	173.8	.215	1495.9	65.4
70	12.069	34.692	26.337	169.4	.224	1498.5	70.4
75	11.688	34.743	26.449	158.9	.232	1497.3	75.4
80	11.706	34.760	26.459	158.0	.240	1497.5	80.4
83	11.789	34.800	26.474	156.7	.245	1497.8	83.8

SIGMA-T

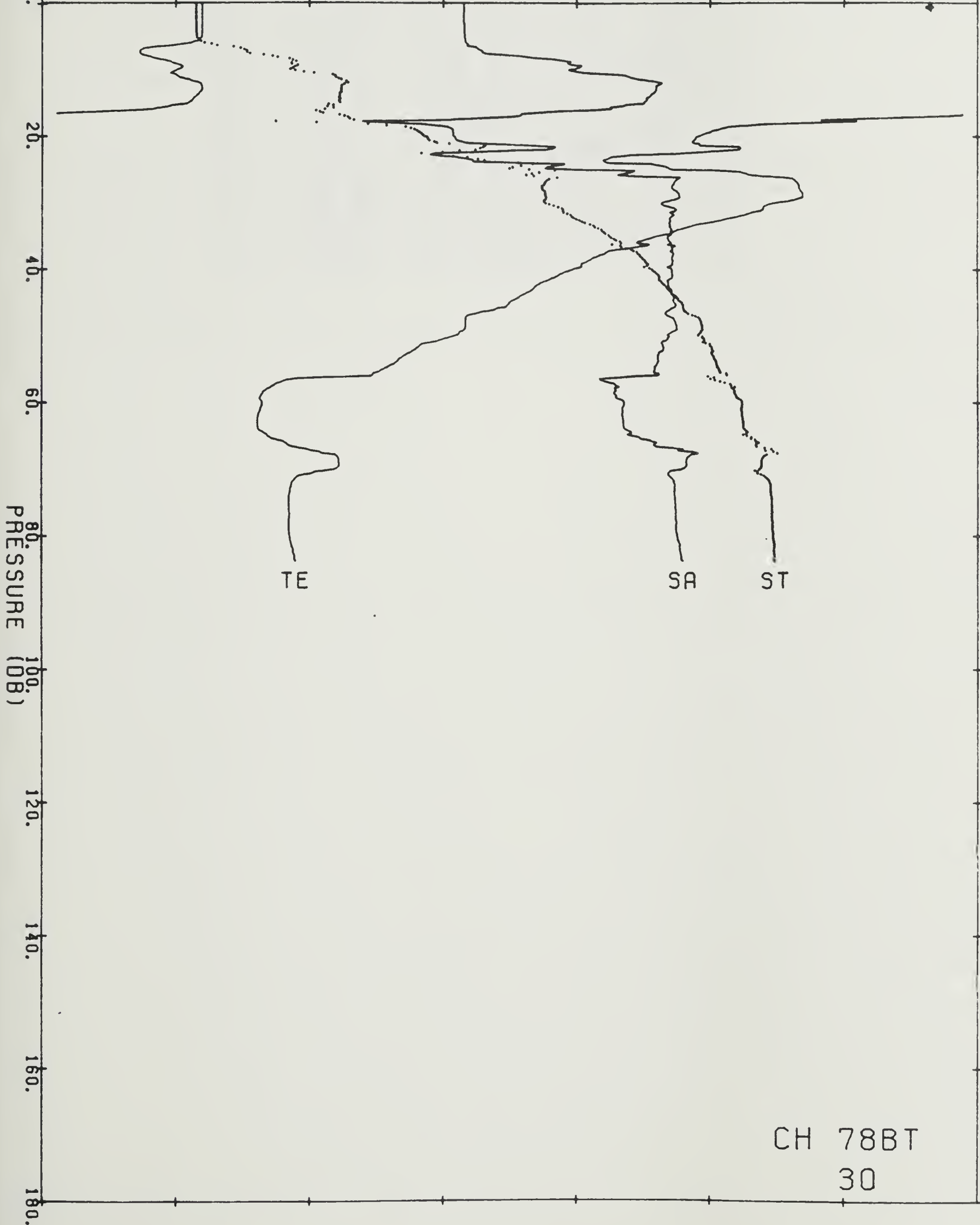
21. 22. 23. 24. 25. 26. 27. 28.

SALINITY (PPT)

30. 31. 32. 33. 34. 35. 36. 37.

TEMPERATURE (DEG C)

8. 10. 12. 14. 16. 18. 20. 22.



SHIP CH CRUISE 78-BT STATION 31 POSITION 40 20.30 N 71 7.40 W
LOCAL TIME 430 DATE 78/ 8/17 WIND = knots DIR = DEPTH= 88M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	24.382	33.158	22.136	568.1	0.000	1531.3	0.0
5	24.375	33.160	22.140	567.9	.028	1531.4	5.0
10	24.448	34.417	23.069	479.3	.055	1533.0	10.0
15	20.491	33.439	23.444	443.6	.078	1521.9	15.0
20	17.368	33.020	23.909	399.3	.099	1512.6	20.0
25	19.385	34.695	24.691	325.1	.117	1520.5	25.0
30	18.499	34.717	24.932	302.2	.133	1518.1	30.2
35	16.186	34.705	25.479	250.3	.147	1511.3	35.2
40	15.452	34.696	25.639	235.2	.159	1509.1	40.2
45	14.828	34.745	25.814	218.7	.170	1507.3	45.2
50	13.562	34.651	26.009	200.1	.181	1503.1	50.2
55	13.175	34.659	26.094	192.2	.191	1501.9	55.2
60	11.349	34.361	26.215	180.7	.200	1495.4	60.2
65	11.552	34.482	26.272	175.4	.209	1496.3	65.4
70	12.173	34.716	26.336	169.5	.218	1498.9	70.4
75	11.685	34.728	26.438	159.9	.226	1497.3	75.4
80	11.708	34.760	26.459	158.0	.234	1497.5	80.4
84	11.758	34.771	26.458	158.3	.240	1497.7	84.0

SIGMA-T

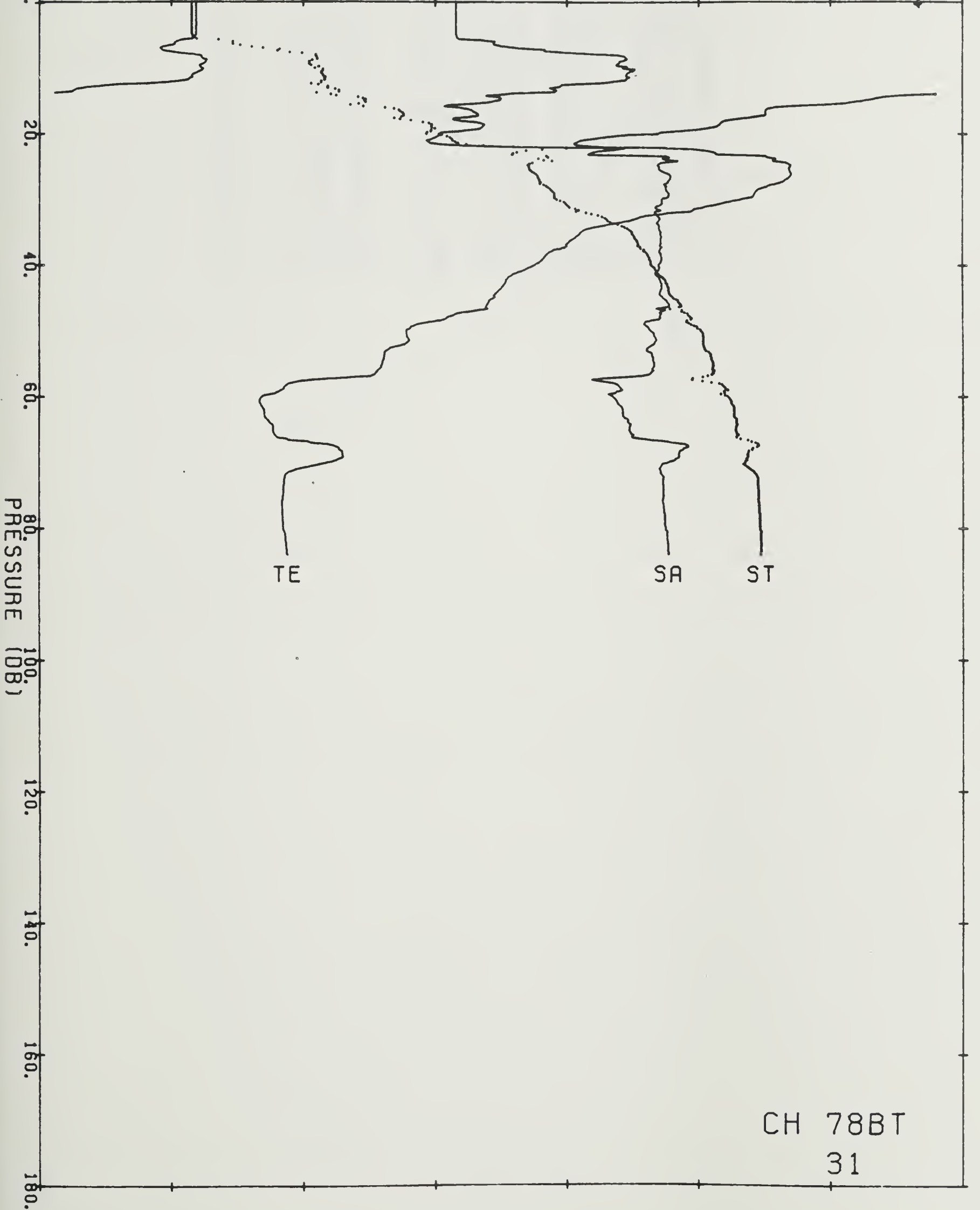
21. 22. 23. 24. 25. 26. 27. 28.

SALINITY (PPT)

30. 31. 32. 33. 34. 35. 36. 37.

TEMPERATURE (DEG C)

8. 10. 12. 14. 16. 18. 20. 22.



SHIP CH CRUISE 78-BT STATION 32 POSITION 40 20.70 N 71 7.60 W
LOCAL TIME 500 DATE 78/ 8/17 WIND = knots DIR = DEPTH= 88M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	24.336	33.122	22.123	569.3	0.000	1531.1	0.0
5	23.884	33.275	22.372	545.7	.028	1530.3	5.0
10	22.705	33.857	23.153	471.3	.053	1528.1	10.0
15	19.493	33.449	23.712	418.0	.076	1519.2	15.0
20	16.672	33.073	24.113	379.9	.095	1510.6	20.0
25	19.320	34.662	24.682	325.9	.113	1520.3	25.0
30	18.045	34.736	25.060	290.1	.129	1516.8	30.2
35	17.005	34.694	25.279	269.3	.143	1513.8	35.2
40	15.802	34.712	25.572	241.5	.156	1510.2	40.2
45	15.112	34.729	25.739	225.8	.168	1508.1	45.2
50	14.548	34.771	25.894	211.1	.179	1506.5	50.2
55	12.531	34.447	26.058	195.6	.189	1499.5	55.2
60	12.897	34.628	26.126	189.3	.198	1501.0	60.2
65	11.771	34.508	26.251	177.4	.208	1497.1	65.4
70	12.549	34.825	26.348	168.4	.216	1500.3	70.4
75	11.585	34.660	26.404	163.1	.225	1496.8	75.4
80	11.607	34.703	26.433	160.5	.233	1497.0	80.4
82	11.647	34.724	26.442	159.6	.235	1497.2	82.0

SIGMA-T

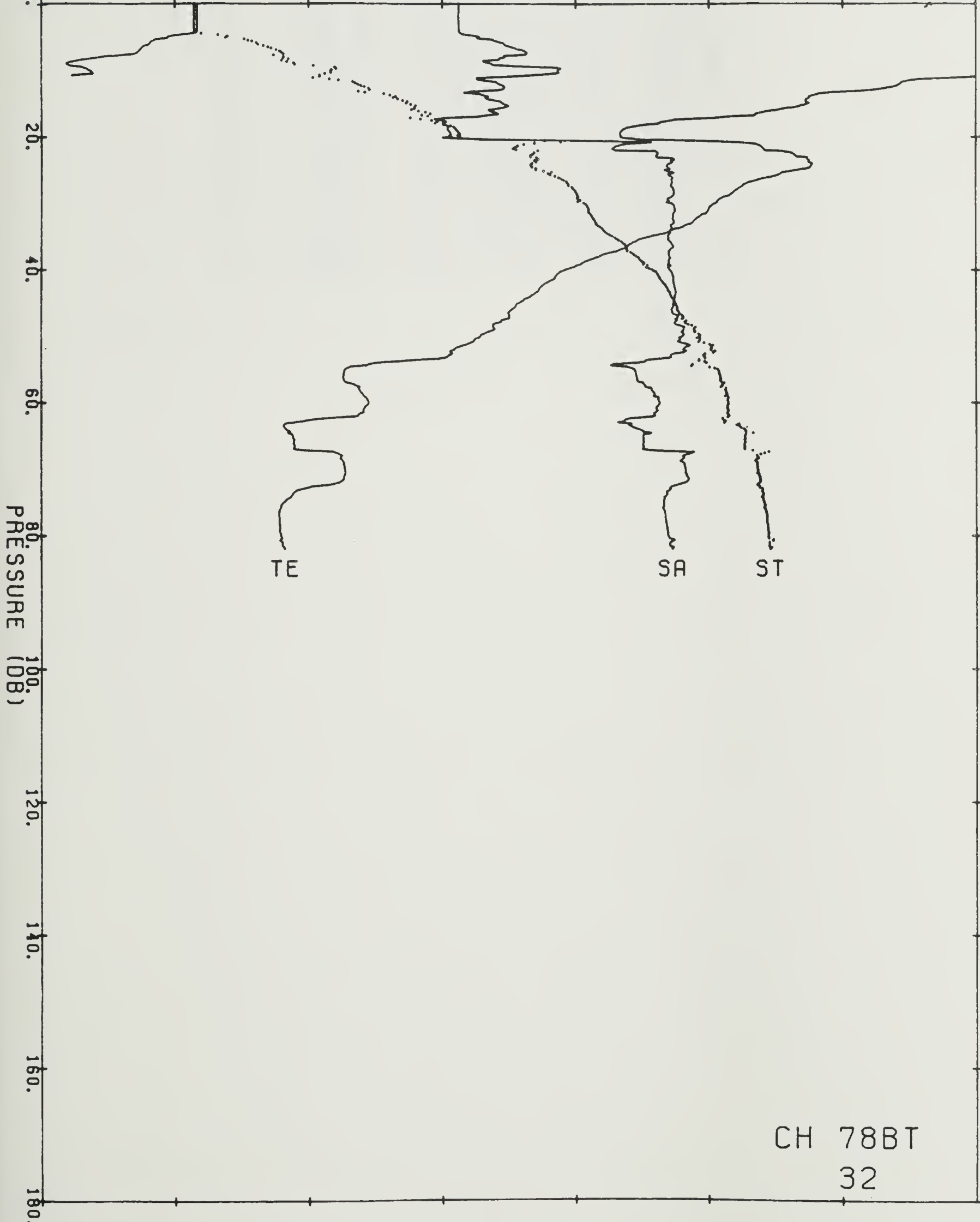
21. 22. 23. 24. 25. 26. 27. 28.

SALINITY (PPT)

30. 31. 32. 33. 34. 35. 36. 37.

TEMPERATURE (DEG C)

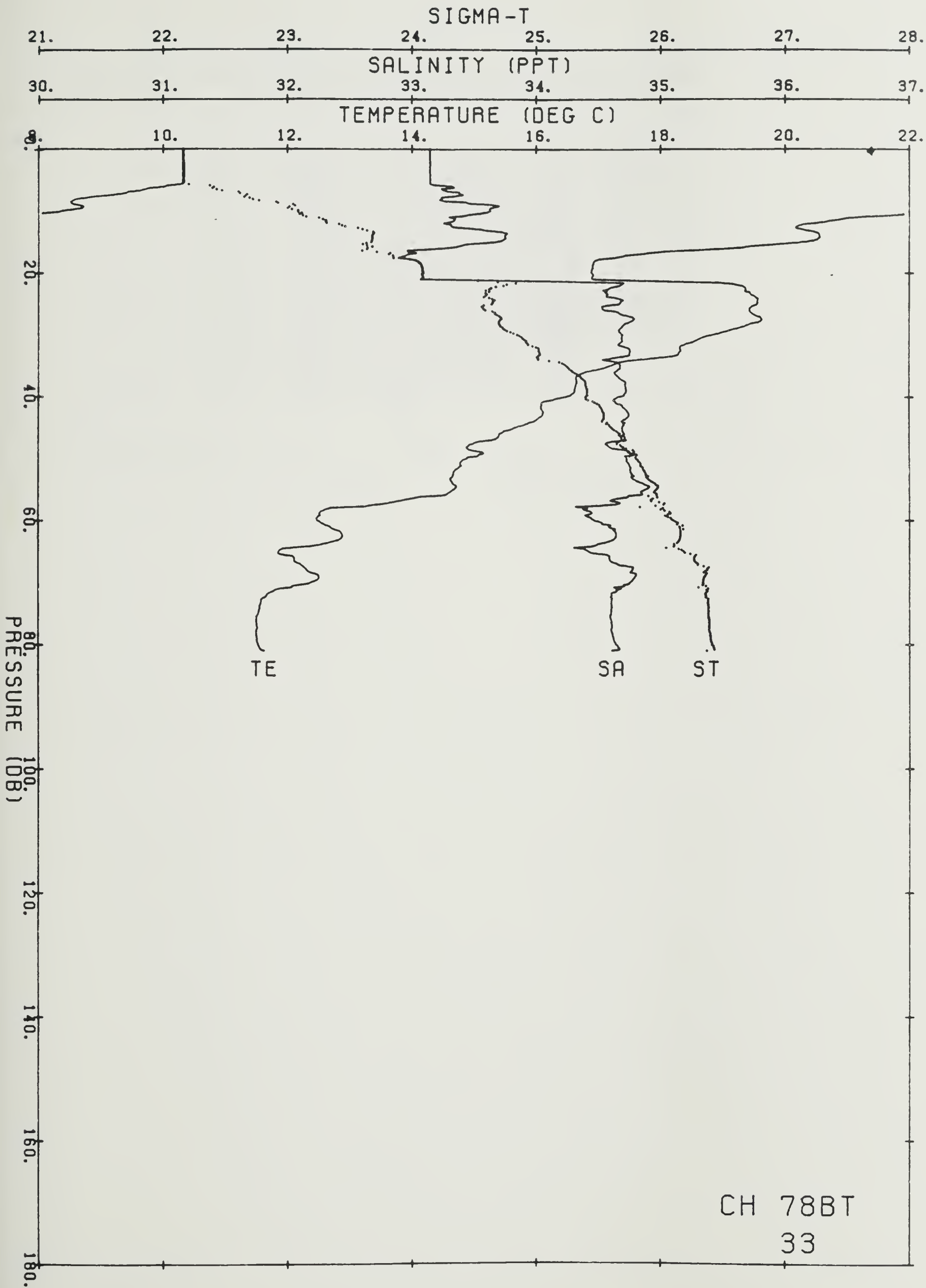
8. 10. 12. 14. 16. 18. 20. 22.



CH 78BT
32

SHIP CH CRUISE 78-BT STATION 33 POSITION 40 21.30 N 71 7.50 W
LOCAL TIME 530 DATE 78/ 8/17 WIND = knots DIR = DEPTH= 86M

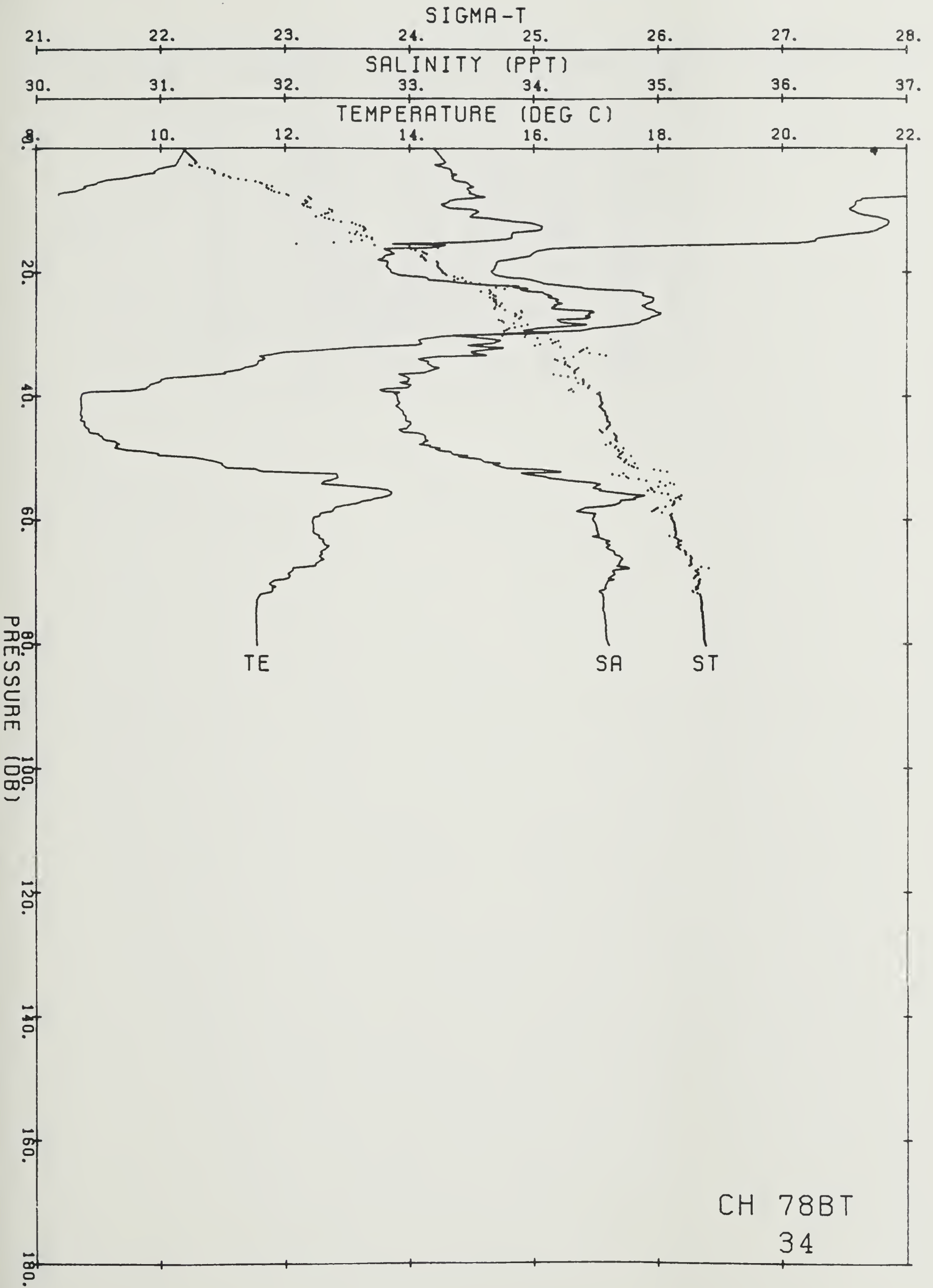
DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	24.337	33.146	22.141	567.7	0.000	1531.2	0.0
5	24.339	33.146	22.141	567.9	.028	1531.3	5.0
10	22.394	33.630	23.068	479.3	.055	1527.0	10.0
15	20.349	33.666	23.654	423.5	.077	1521.8	15.0
20	16.885	33.087	24.075	383.5	.097	1511.2	20.0
25	19.555	34.665	24.624	331.5	.115	1520.9	25.0
30	18.750	34.691	24.849	310.1	.132	1518.8	30.2
35	17.131	34.676	25.236	273.5	.146	1514.1	35.2
40	16.390	34.642	25.384	259.5	.160	1511.9	40.2
45	15.606	34.692	25.601	239.0	.172	1509.7	45.2
50	14.813	34.727	25.803	219.8	.184	1507.3	50.2
55	14.634	34.855	25.941	206.9	.194	1506.9	55.2
60	12.508	34.501	26.104	191.3	.204	1499.6	60.2
65	11.856	34.496	26.225	179.9	.214	1497.4	65.4
70	12.194	34.703	26.322	170.9	.223	1498.9	70.4
75	11.501	34.596	26.370	166.3	.231	1496.5	75.4
80	11.541	34.661	26.413	162.4	.239	1496.8	80.4
81	11.627	34.610	26.357	167.7	.240	1497.0	81.0



CH 78BT
33

SHIP CH CRUISE 78-BT STATION 34 POSITION 40 21.80 N 71 7.30 W
LOCAL TIME 601 DATE 78/ 8/17 WIND = knots DIR = DEPTH= 86M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	24.400	33.199	22.162	565.6	0.000	1531.4	0.0
5	23.295	33.357	22.605	523.4	.027	1528.9	5.0
10	21.083	33.540	23.362	451.3	.052	1523.5	10.0
15	20.536	33.541	23.509	437.4	.074	1522.1	15.0
20	15.331	32.856	24.248	366.9	.094	1506.1	20.0
25	17.835	34.230	24.724	321.8	.111	1515.5	25.0
30	14.861	33.342	24.725	321.8	.128	1505.4	30.2
35	11.476	33.180	25.273	269.6	.143	1493.9	35.2
40	8.721	32.905	25.521	245.8	.156	1483.6	40.2
45	8.815	32.979	25.565	241.8	.168	1484.1	45.2
50	10.666	33.575	25.725	226.8	.179	1491.8	50.2
55	13.652	34.531	25.898	210.9	.190	1503.4	55.2
60	12.441	34.486	26.106	191.2	.200	1499.3	60.2
65	12.589	34.651	26.205	181.9	.210	1500.1	65.4
70	11.756	34.578	26.308	172.1	.219	1497.2	70.4
75	11.535	34.571	26.344	168.8	.228	1496.5	75.4
80	11.552	34.608	26.370	166.5	.236	1496.7	80.2



SHIP CH CRUISE 78-BT STATION 35 POSITION 40 22.40 N 71 7.30 W
LOCAL TIME 630 DATE 78/ 8/17 WIND = knots DIR = DEPTH= 86M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	24.432	33.189	22.145	567.2	0.000	1531.4	0.0
5	24.108	33.336	22.352	547.6	.028	1530.9	5.0
10	21.962	33.265	22.912	494.3	.054	1525.5	10.0
15	22.454	33.954	23.297	457.6	.078	1527.6	15.0
20	15.838	32.590	23.931	397.1	.099	1507.4	20.0
25	14.748	33.937	25.208	275.7	.116	1505.7	25.0
30	11.101	32.651	24.930	302.1	.131	1491.8	30.2
35	10.049	32.838	25.256	271.1	.145	1488.4	35.2
40	8.800	32.844	25.462	251.5	.158	1483.8	40.2
45	8.483	32.901	25.554	242.8	.171	1482.8	45.2
50	8.466	32.993	25.629	235.8	.183	1482.9	50.2
55	8.604	33.226	25.791	220.5	.194	1483.8	55.2
60	12.536	34.332	25.968	204.2	.205	1499.4	60.2
65	11.905	34.241	26.018	199.5	.215	1497.2	65.4
70	12.278	34.600	26.226	180.0	.225	1499.1	70.4
75	11.551	34.497	26.284	174.5	.234	1496.5	75.4
80	11.542	34.563	26.336	169.6	.241	1496.6	79.8

SIGMA-T

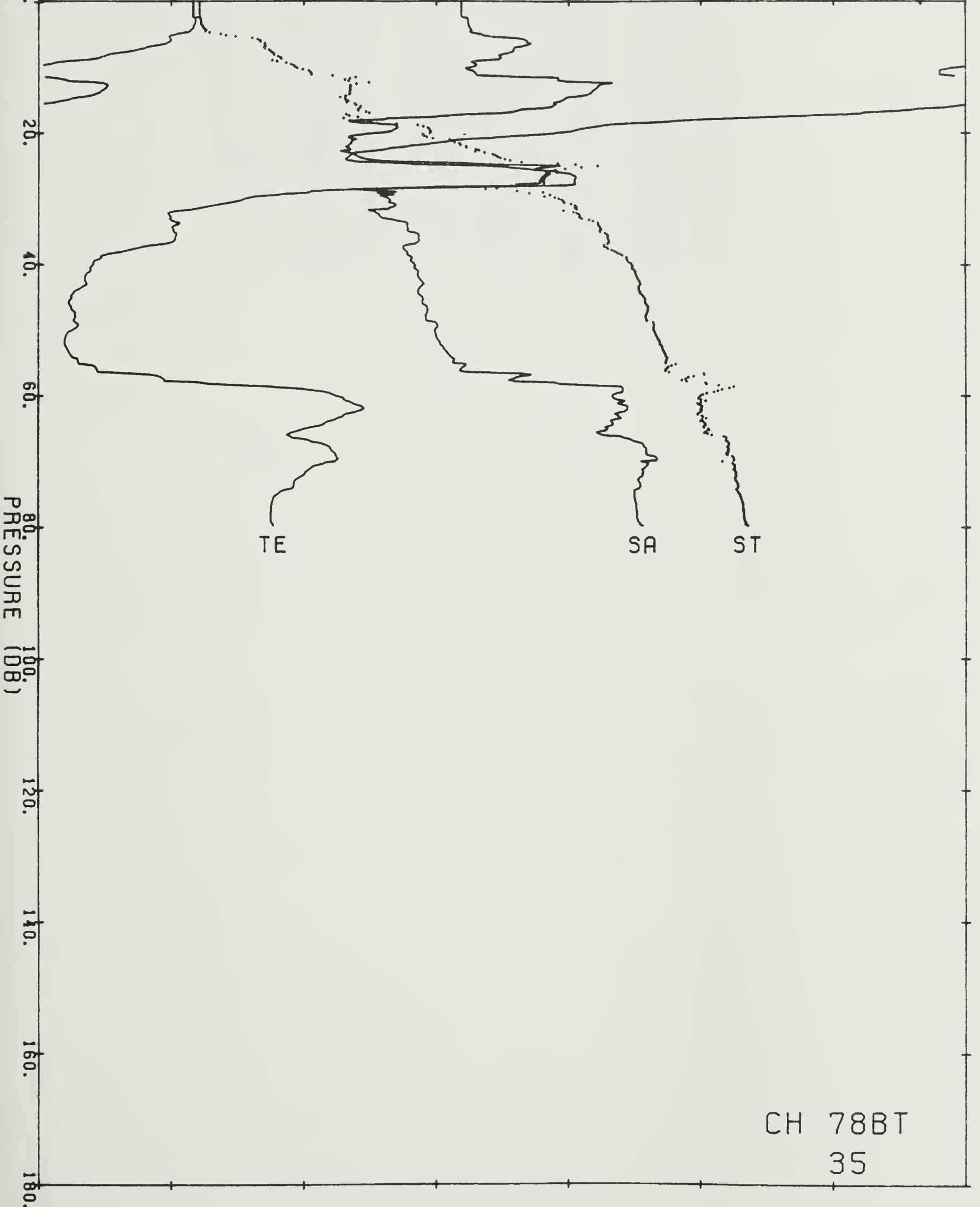
21. 22. 23. 24. 25. 26. 27. 28.

SALINITY (PPT)

30. 31. 32. 33. 34. 35. 36. 37.

TEMPERATURE (DEG C)

10. 12. 14. 16. 18. 20. 22.



CH 78BT
35

SHIP CH CRUISE 78-BT STATION 36 POSITION 40 23.00 N 71 7.00 W
LOCAL TIME 700 DATE 78/ 8/17 WIND = knots DIR = DEPTH= 86M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	24.337	33.236	22.209	561.2	0.000	1531.3	0.0
5	24.309	33.894	22.715	513.0	.027	1532.0	5.0
10	23.578	34.125	23.105	475.9	.052	1530.6	10.0
15	19.583	32.818	23.207	466.2	.075	1518.7	15.0
20	13.296	32.371	24.299	362.0	.096	1498.9	20.0
25	11.036	32.555	24.866	308.0	.113	1491.4	25.0
30	10.096	32.618	25.077	288.0	.128	1488.2	30.2
35	8.870	32.769	25.392	258.0	.142	1483.9	35.2
40	8.621	32.831	25.479	249.9	.154	1483.1	40.2
45	8.592	32.925	25.557	242.5	.167	1483.2	45.2
50	8.465	32.978	25.618	236.8	.179	1482.9	50.2
55	8.315	33.067	25.710	228.1	.190	1482.5	55.2
60	9.411	33.459	25.846	215.4	.201	1487.2	60.2
65	11.506	34.134	26.009	200.3	.212	1495.7	65.4
70	11.884	34.451	26.185	183.8	.222	1497.5	70.4
75	11.800	34.528	26.261	176.7	.231	1497.4	75.4
80	11.552	34.581	26.348	168.5	.239	1496.7	80.4
81	11.573	34.584	26.347	168.6	.240	1496.8	81.0

SIGMA-T

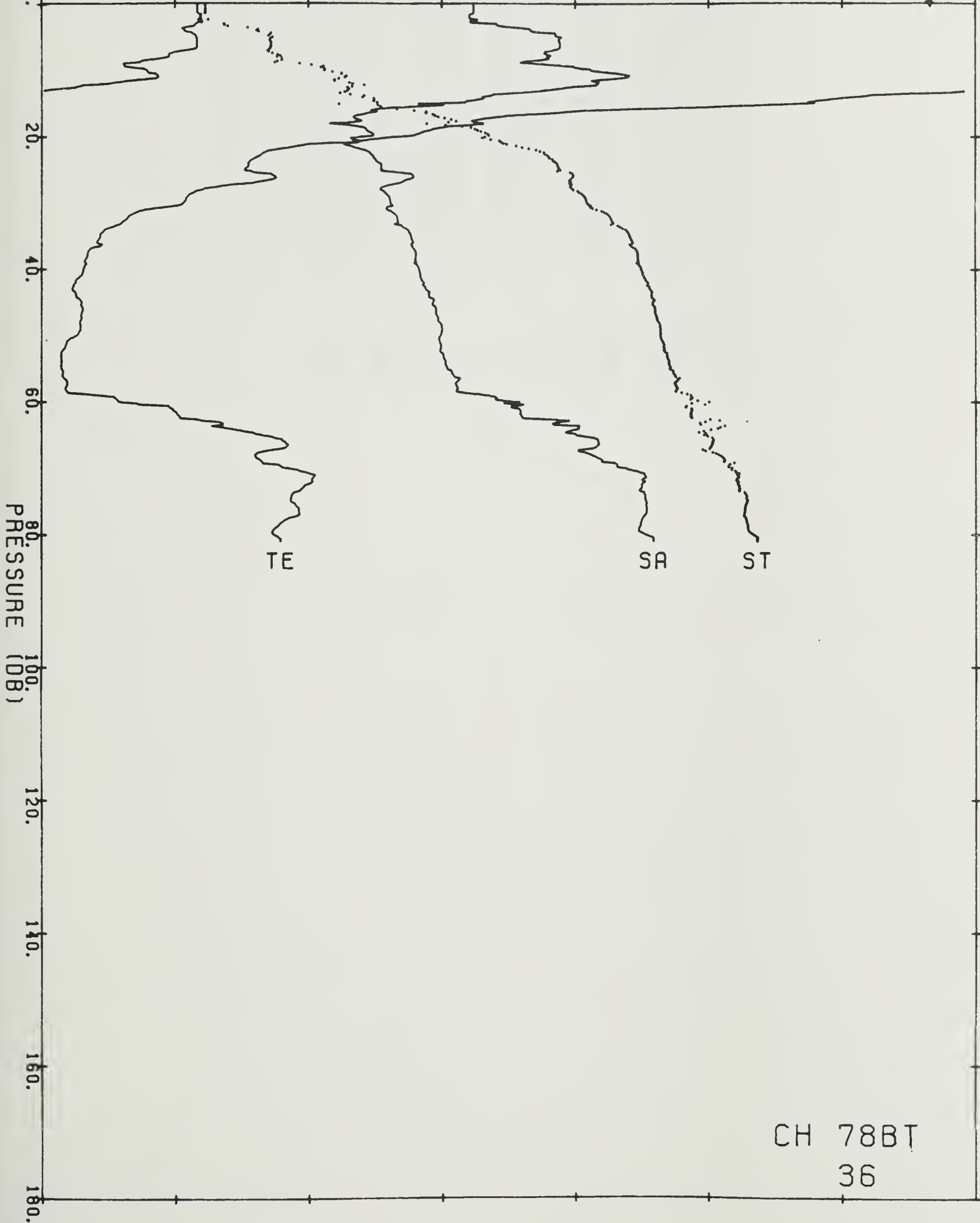
21. 22. 23. 24. 25. 26. 27. 28.

SALINITY (PPT)

30. 31. 32. 33. 34. 35. 36. 37.

TEMPERATURE (DEG C)

8. 10. 12. 14. 16. 18. 20. 22.



CH 78BT
36

SHIP CH CRUISE 78-BT STATION 37 POSITION 40 23.70 N 71 6.70 W
 LOCAL TIME 739 DATE 78/ 8/17 WIND = knots DIR = DEPTH= 86M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	24.111	33.116	22.185	563.5	0.000	1530.6	0.0
5	24.327	33.823	22.656	518.6	.027	1532.0	5.0
10	24.071	34.052	22.905	495.0	.052	1531.7	10.0
15	21.547	33.517	23.218	465.2	.076	1524.8	15.0
20	14.996	32.504	24.050	385.8	.098	1504.6	20.0
25	13.208	32.733	24.597	333.8	.116	1499.1	25.0
30	10.901	32.801	25.082	287.6	.132	1491.3	30.2
35	9.316	32.758	25.313	265.6	.146	1485.6	35.2
40	8.664	32.857	25.493	248.5	.158	1483.3	40.2
45	8.430	32.907	25.567	241.6	.171	1482.6	45.2
50	8.351	32.915	25.585	239.9	.183	1482.4	50.2
55	8.240	32.991	25.662	232.7	.195	1482.1	55.2
60	8.484	33.092	25.704	228.8	.206	1483.3	60.2
65	8.806	33.371	25.873	212.9	.218	1484.9	65.4
70	10.307	33.882	26.027	198.5	.228	1491.2	70.4
75	11.240	34.469	26.319	171.1	.237	1495.4	75.4
80	11.523	34.536	26.319	171.3	.246	1496.5	80.4
81	11.557	34.539	26.315	171.7	.248	1496.7	81.8

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
3	23.910	32.976						
33	9.840	32.781	6.44	0.40	0.70	1.80		
60	8.450	33.115	5.67	0.53	6.00	6.24		
81	11.600	34.463	5.28	0.61	5.90	6.87		

SIGMA-T

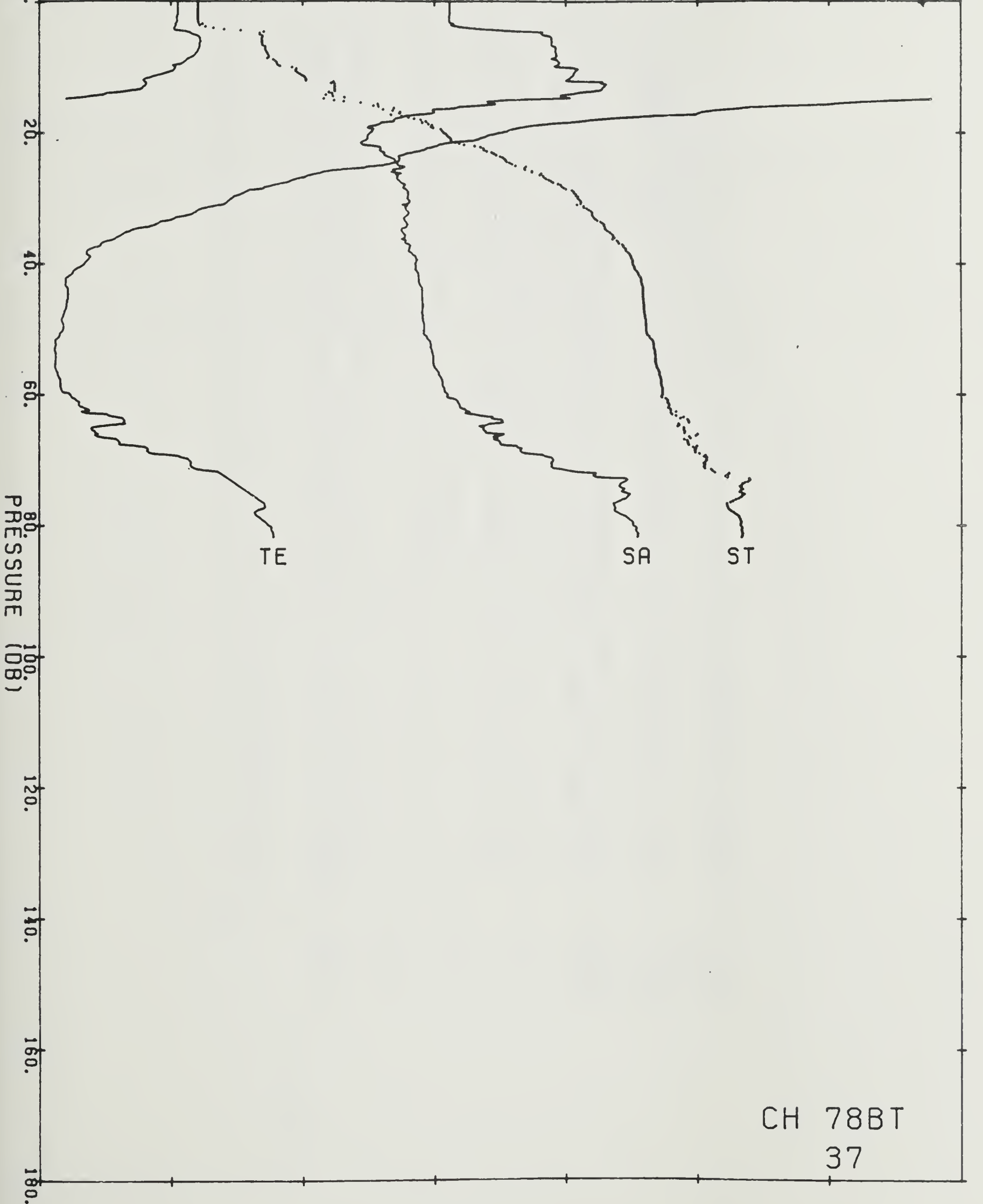
21. 22. 23. 24. 25. 26. 27. 28.

SALINITY (PPT)

30. 31. 32. 33. 34. 35. 36. 37.

TEMPERATURE (DEG C)

8. 10. 12. 14. 16. 18. 20. 22.



CH 78BT
37

SHIP CH CRUISE 78-BT STATION 38 POSITION 39 49.90 N 71 5.00 W
 LOCAL TIME 1425 DATE 78/ 8/17 WIND = knots DIR = DEPTH= 970M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	25.688	34.238	22.557	527.8	0.000	1535.6	0.0
5	25.649	34.266	22.590	524.9	.026	1535.6	5.0
10	25.452	34.576	22.885	496.9	.052	1535.6	10.0
15	24.546	34.718	23.267	460.6	.076	1533.7	15.0
20	22.261	34.908	24.077	383.5	.097	1528.3	20.0
25	18.884	34.920	24.991	296.5	.114	1519.3	25.0
30	17.430	35.206	25.570	241.5	.128	1515.6	30.2
35	15.302	34.989	25.897	210.5	.139	1508.9	35.2
40	14.141	34.885	26.069	194.2	.149	1505.1	40.2
45	13.497	34.934	26.241	178.0	.159	1503.2	45.2
50	13.545	35.082	26.346	168.2	.167	1503.6	50.2
55	13.917	35.328	26.459	157.7	.175	1505.2	55.2
60	14.168	35.500	26.539	150.2	.183	1506.3	60.2
65	14.224	35.588	26.595	145.1	.191	1506.7	65.4
70	14.302	35.698	26.663	138.8	.198	1507.2	70.4
75	14.148	35.736	26.725	133.0	.205	1506.8	75.4
80	13.822	35.696	26.764	129.4	.211	1505.8	80.4
85	13.506	35.671	26.810	125.2	.218	1504.8	85.4
90	13.346	35.657	26.833	123.2	.224	1504.3	90.4
95	13.199	35.655	26.861	120.6	.230	1503.9	95.6
100	13.098	35.616	26.851	121.6	.236	1503.6	100.6
105	12.932	35.662	26.921	115.1	.242	1503.2	105.6
110	12.900	35.667	26.930	114.4	.248	1503.2	110.6
115	12.782	35.652	26.943	113.3	.254	1502.8	115.6
120	12.692	35.650	26.959	111.8	.259	1502.6	120.6
125	12.690	35.656	26.964	111.5	.265	1502.7	125.8
130	12.595	35.644	26.974	110.7	.271	1502.4	130.8
135	12.473	35.635	26.991	109.2	.276	1502.1	135.8
140	12.430	35.640	27.003	108.2	.281	1502.0	140.8
145	12.391	35.644	27.014	107.3	.287	1502.0	145.8
150	12.279	35.642	27.034	105.4	.292	1501.7	151.0
155	11.967	35.594	27.058	103.3	.298	1500.6	156.0
160	11.907	35.594	27.069	102.3	.303	1500.5	161.0
165	11.802	35.587	27.084	101.0	.308	1500.2	166.0
170	11.670	35.577	27.101	99.5	.313	1499.8	171.0
175	11.571	35.570	27.114	98.3	.318	1499.6	176.2
180	11.552	35.568	27.116	98.2	.323	1499.6	181.2
185	11.310	35.547	27.145	95.6	.328	1498.8	186.2
190	11.144	35.512	27.148	95.3	.333	1498.2	191.2
195	10.981	35.491	27.162	94.0	.337	1497.7	196.2
200	10.739	35.485	27.201	90.4	.342	1496.9	201.2
225	9.937	35.382	27.262	84.9	.364	1494.3	226.6
250	9.095	35.307	27.344	77.3	.385	1491.6	251.8
275	8.473	35.261	27.407	71.5	.403	1489.6	277.0
300	7.538	35.187	27.490	63.6	.420	1486.3	302.2
325	7.203	35.172	27.526	60.4	.436	1485.4	327.4
350	6.940	35.231	27.609	52.8	.450	1484.9	352.6
375	6.544	35.238	27.669	47.2	.463	1483.7	377.8
400	6.126	35.226	27.716	42.8	.474	1482.5	403.0
425	5.777	35.244	27.774	37.4	.484	1481.5	428.2
450	5.526	35.391	27.922	23.6	.492	1481.1	453.4
475	5.400	35.265	27.838	31.7	.499	1480.8	478.8
500	5.308	35.283	27.863	29.5	.507	1480.9	504.0
571	5.096	35.313	27.912	25.6	.526	1481.2	575.8

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
0		33.866	4.84	0.04	0.60	0.76		
19	22.300	34.886	5.54	0.04	0.70	0.81		
44	13.850	34.966						
100	12.990	35.569	3.41	0.84	12.20	6.15		
948	4.270	35.179						

SIGMA-T

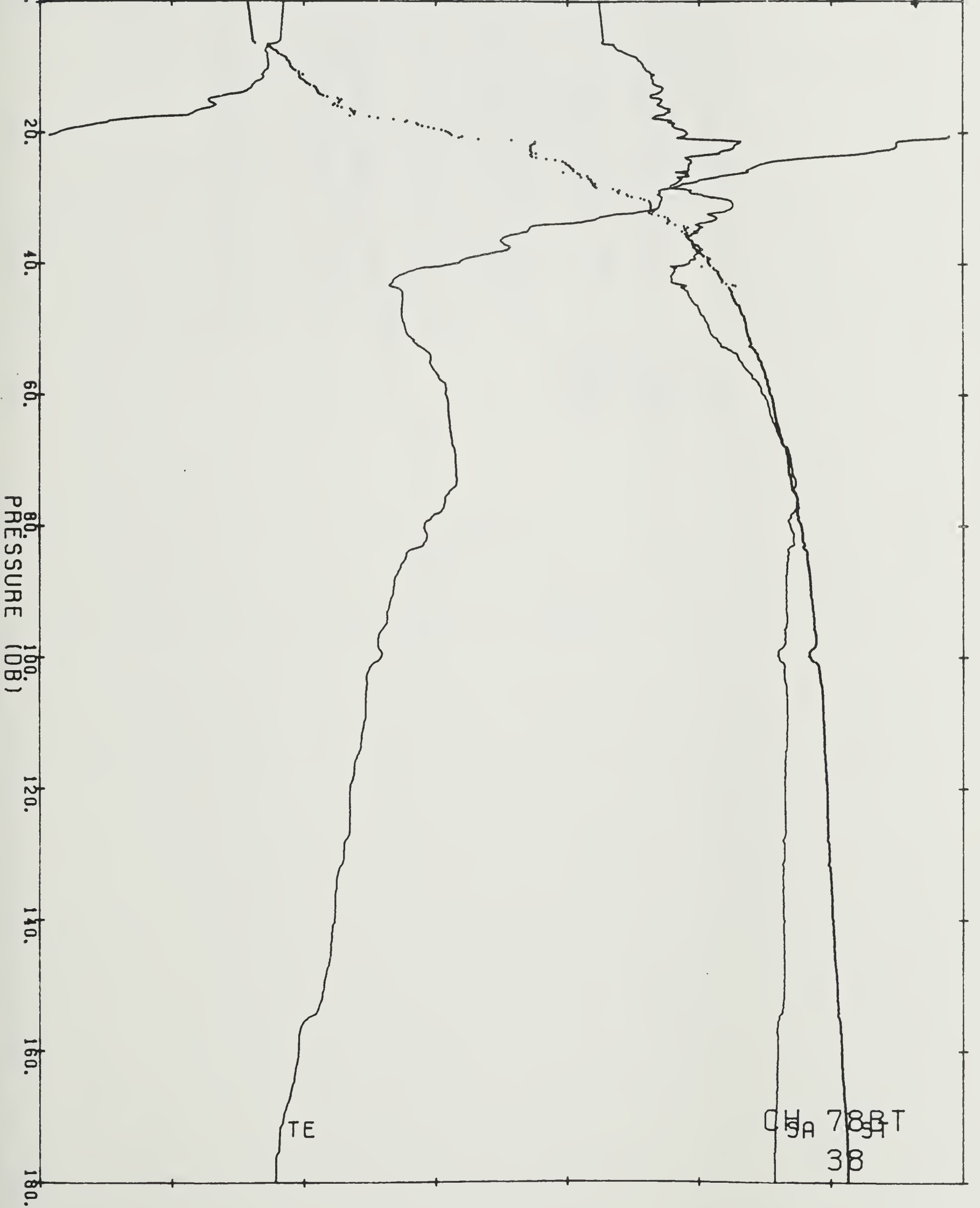
21. 22. 23. 24. 25. 26. 27. 28.

SALINITY (PPT)

30. 31. 32. 33. 34. 35. 36. 37.

TEMPERATURE (DEG C)

8. 10. 12. 14. 16. 18. 20. 22.



SHIP CH CRUISE 78-BT STATION 39 POSITION 40 27.50 N 70 59.40 W
 LOCAL TIME 237 DATE 78/ 8/18 WIND = knots DIR = DEPTH= 87M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	24.382	32.859	21.910	589.7	0.000	1531.0	0.0
5	24.349	32.861	21.922	588.8	.029	1531.0	5.0
10	21.856	32.508	22.367	546.4	.058	1524.4	10.0
15	17.088	32.427	23.521	436.2	.082	1511.0	15.0
20	14.610	32.752	24.323	359.7	.102	1503.7	20.0
25	11.404	32.695	24.909	303.9	.119	1492.9	25.0
30	8.887	32.679	25.319	265.0	.134	1483.8	30.2
35	8.198	32.660	25.408	256.5	.147	1481.2	35.2
40	7.974	32.699	25.471	250.5	.159	1480.5	40.2
45	8.106	32.795	25.527	245.3	.172	1481.2	45.2
50	8.126	32.810	25.536	244.5	.184	1481.4	50.2
55	7.676	32.791	25.586	239.8	.196	1479.7	55.2
60	7.740	32.914	25.674	231.6	.208	1480.2	60.2
65	7.896	33.045	25.754	224.1	.220	1481.0	65.4
70	7.640	33.131	25.858	214.2	.231	1480.2	70.4
75	7.644	33.139	25.864	213.7	.241	1480.3	75.4
80	7.645	33.141	25.865	213.7	.252	1480.4	80.4
82	7.647	33.144	25.868	213.5	.257	1480.5	82.8

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
1		32.899						
4	24.290	32.894						
24	12.020	32.832						
39	7.930	32.706						
82	7.580	33.168						

SIGMA-T

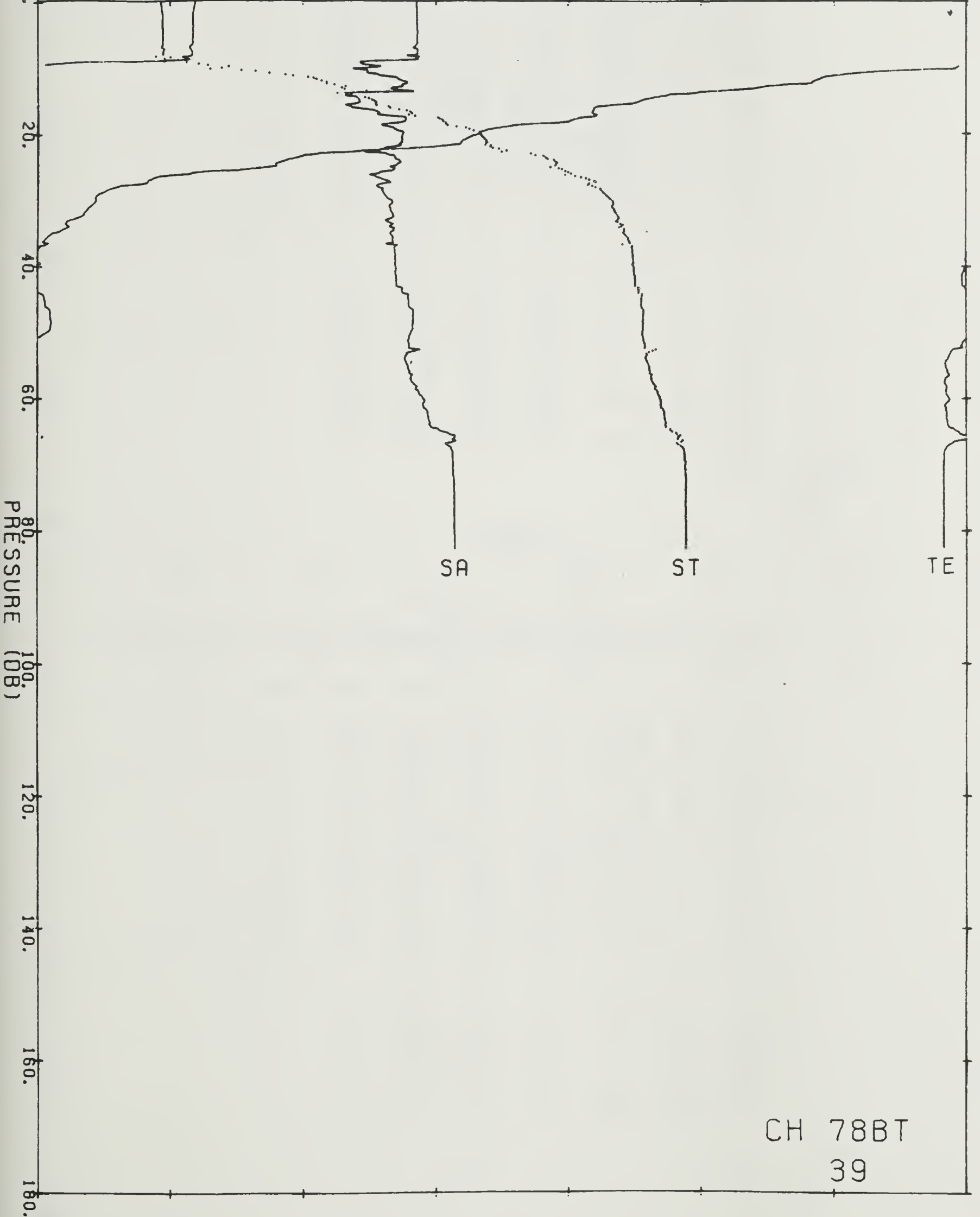
21. 22. 23. 24. 25. 26. 27. 28.

SALINITY (PPT)

30. 31. 32. 33. 34. 35. 36. 37.

TEMPERATURE (DEG C)

8. 10. 12. 14. 16. 18. 20. 22.



CH 78BT

39

SHIP CH CRUISE 78-BT STATION 40 POSITION 40 34.50 N 71 21.30 W
 LOCAL TIME 558 DATE 78/ 8/18 WIND = knots DIR = DEPTH= 69M

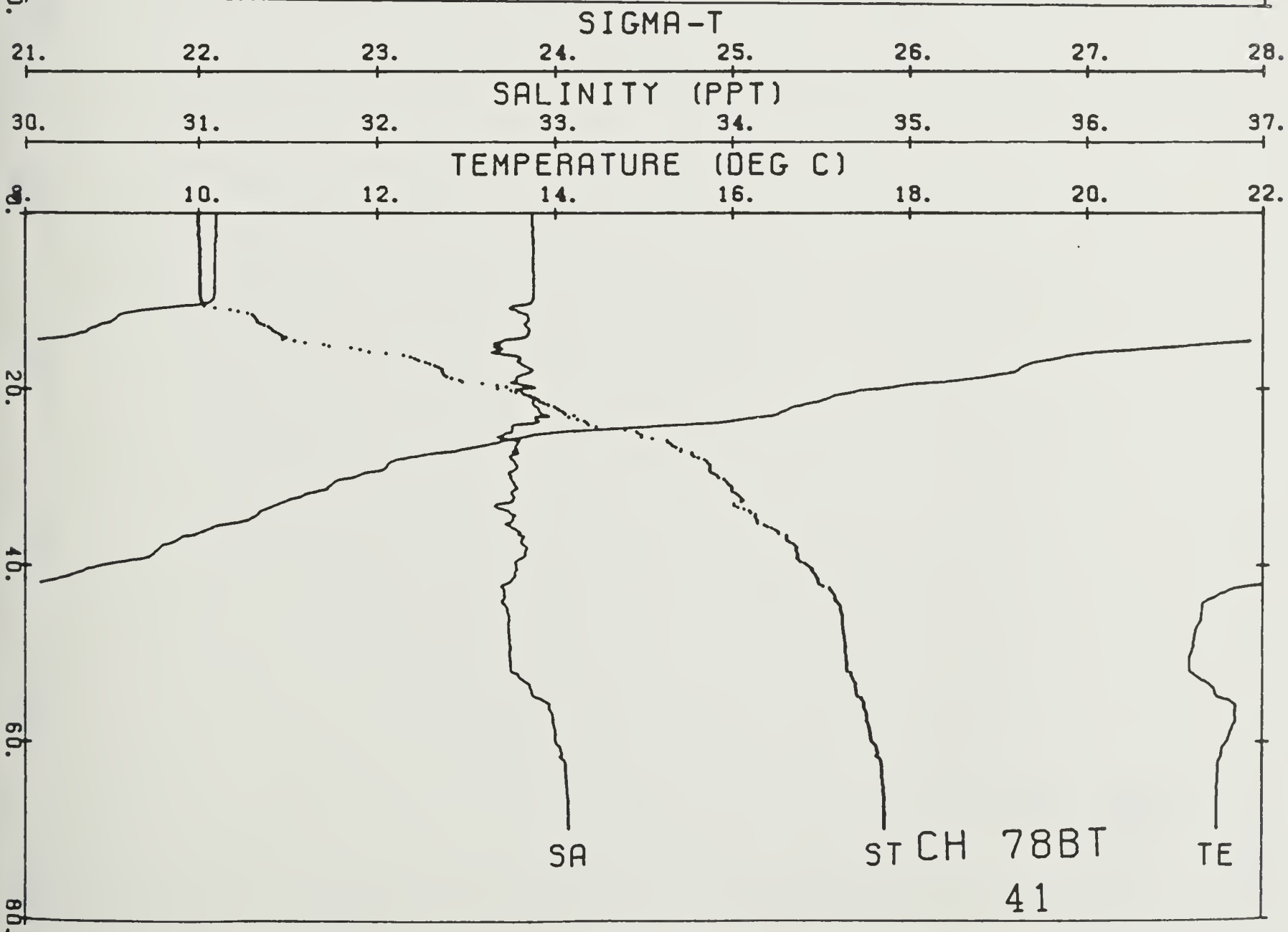
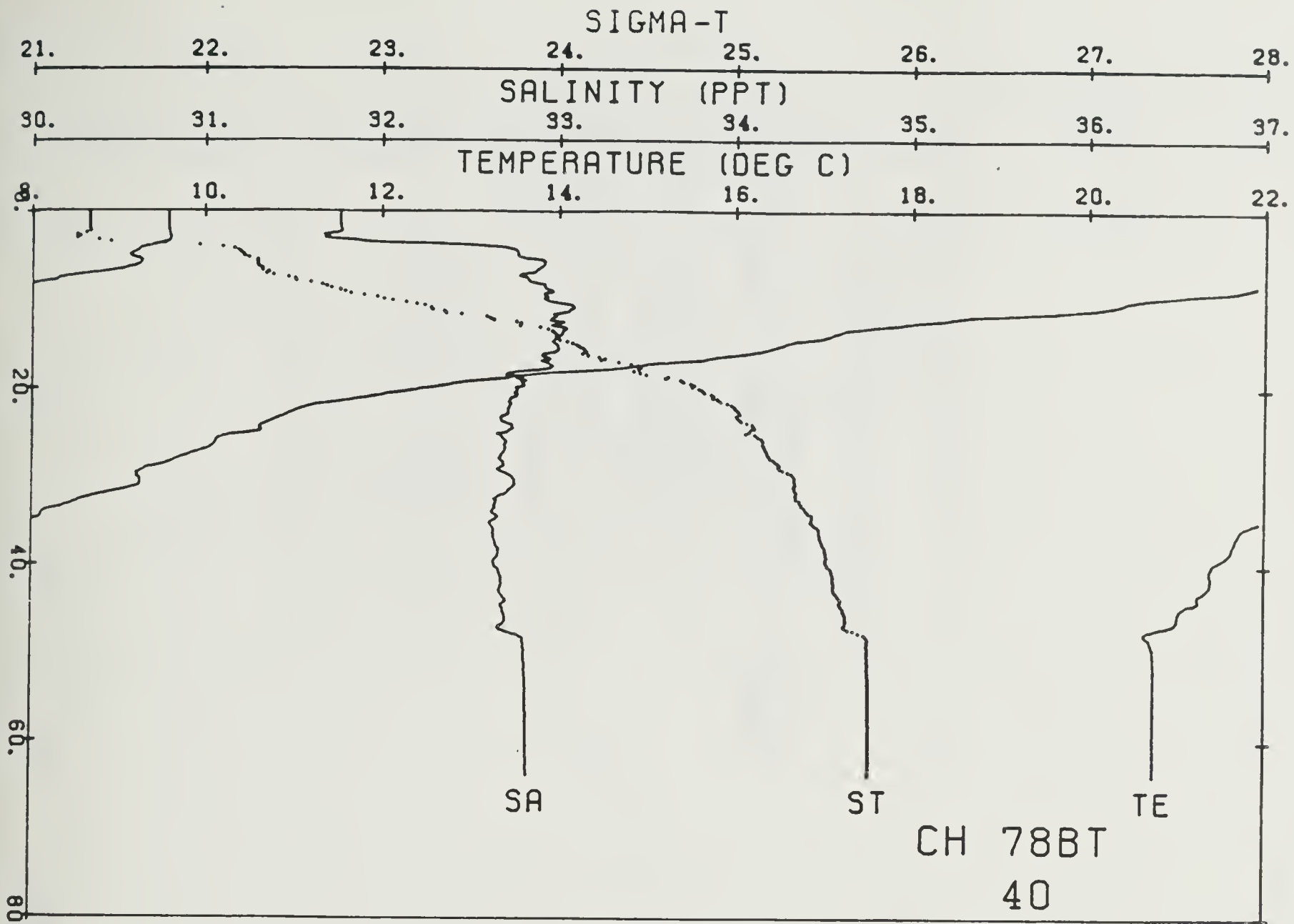
DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	23.579	31.761	21.315	646.8	0.000	1527.8	0.0
5	23.134	32.764	22.202	562.0	.030	1527.8	5.0
10	20.537	32.930	23.043	481.7	.056	1521.3	10.0
15	16.532	32.990	24.082	382.7	.078	1510.0	15.0
20	12.435	32.765	24.772	316.9	.095	1496.5	20.0
25	10.484	32.647	25.034	292.0	.111	1489.5	25.0
30	9.259	32.750	25.316	265.2	.125	1485.3	30.2
35	7.859	32.607	25.416	255.7	.138	1479.8	35.2
40	7.384	32.650	25.516	246.2	.151	1478.1	40.2
45	7.028	32.685	25.592	239.0	.163	1476.9	45.2
50	6.743	32.806	25.725	226.5	.174	1476.0	50.2
55	6.746	32.817	25.733	225.7	.186	1476.1	55.2
60	6.744	32.822	25.737	225.4	.197	1476.2	60.2
63	6.744	32.824	25.740	225.2	.205	1476.2	63.8

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
1		31.715	5.14	0.22	0.50	1.78		
2		31.724	5.11	0.23	0.30	1.65		
7			5.23	0.11	0.60	0.93		
14			6.26	0.09	0.60	1.07		
19			6.58	0.18	0.50	1.29		
23	11.070	32.969	6.90	0.24	0.80	1.96		
29			7.03	0.32	0.70	2.49		
35			6.61	0.47	1.90	4.90		
47	6.980	32.866	6.09	0.67	5.80	6.76		
53			5.87	0.74	7.30	11.53		
64	6.730	33.069	5.69	0.83	7.10	11.13		

SHIP CH CRUISE 78-BT STATION 41 POSITION 40 35.30 N 71 0.00 W
 LOCAL TIME 913 DATE 78/ 8/18 WIND = knots DIR = DEPTH= 73M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	24.196	32.871	21.975	583.6	0.000	1530.5	0.0
5	24.179	32.877	21.984	582.9	.029	1530.6	5.0
10	24.125	32.870	21.995	582.0	.058	1530.5	10.0
15	21.224	32.690	22.677	516.9	.086	1523.0	15.0
20	17.648	32.775	23.654	423.6	.109	1513.1	20.0
25	13.873	32.714	24.447	348.0	.129	1501.3	25.0
30	11.558	32.758	24.930	302.0	.145	1493.6	30.2
35	10.320	32.718	25.117	284.3	.160	1489.2	35.2
40	8.791	32.782	25.414	256.0	.174	1483.7	40.2
45	7.305	32.732	25.591	239.2	.186	1478.0	45.2
50	7.166	32.745	25.621	236.4	.198	1477.6	50.2
55	7.613	32.937	25.709	228.1	.210	1479.6	55.2
60	7.570	33.015	25.777	221.7	.221	1479.7	60.2
65	7.477	33.071	25.834	216.4	.232	1479.4	65.2
70	7.474	33.077	25.839	216.0	.242	1479.5	69.8

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
0		32.940	5.08	0.05	0.50	0.36		
13	22.700	33.454	5.34	0.06	0.50	0.36		
24			6.54	0.13	0.60	1.11		
35	10.390	32.924	7.04	0.30	0.70	1.34		
50			5.93	0.78	6.80	7.52		
59	7.520	33.109						
70	7.470	33.060	5.39	0.91	8.10	12.15		



SHIP CH CRUISE 78-BT STATION 42 POSITION 40 27.00 N 71 2.50 W
 LOCAL TIME 1144 DATE 78/ 8/18 WIND = knots DIR = DEPTH= 84M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	24.439	32.896	21.922	588.6	0.000	1531.1	0.0
5	24.398	32.893	21.932	587.9	.029	1531.1	5.0
10	24.140	33.452	22.431	540.3	.058	1531.2	10.0
15	22.534	33.280	22.763	508.6	.084	1527.1	15.0
20	16.324	32.630	23.853	404.6	.107	1509.0	20.0
25	14.621	32.737	24.310	361.2	.126	1503.8	25.0
30	12.031	32.757	24.842	310.4	.143	1495.2	30.2
35	9.453	32.662	25.216	274.8	.158	1485.9	35.2
40	8.313	32.630	25.367	260.5	.171	1481.7	40.2
45	7.916	32.754	25.523	245.7	.184	1480.4	45.2
50	7.818	32.786	25.562	242.0	.196	1480.2	50.2
55	7.673	32.858	25.639	234.8	.208	1479.8	55.2
60	7.661	32.944	25.708	228.3	.220	1479.9	60.2
65	7.846	33.242	25.916	208.7	.231	1481.1	65.2
70	7.902	33.259	25.921	208.2	.241	1481.4	70.4
75	7.973	33.279	25.927	207.8	.252	1481.8	75.4
80	8.012	33.291	25.930	207.6	.261	1482.0	80.0

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
0		32.956						
9		33.000						
29		32.936						
44		32.940						
80		33.631						

SIGMA-T

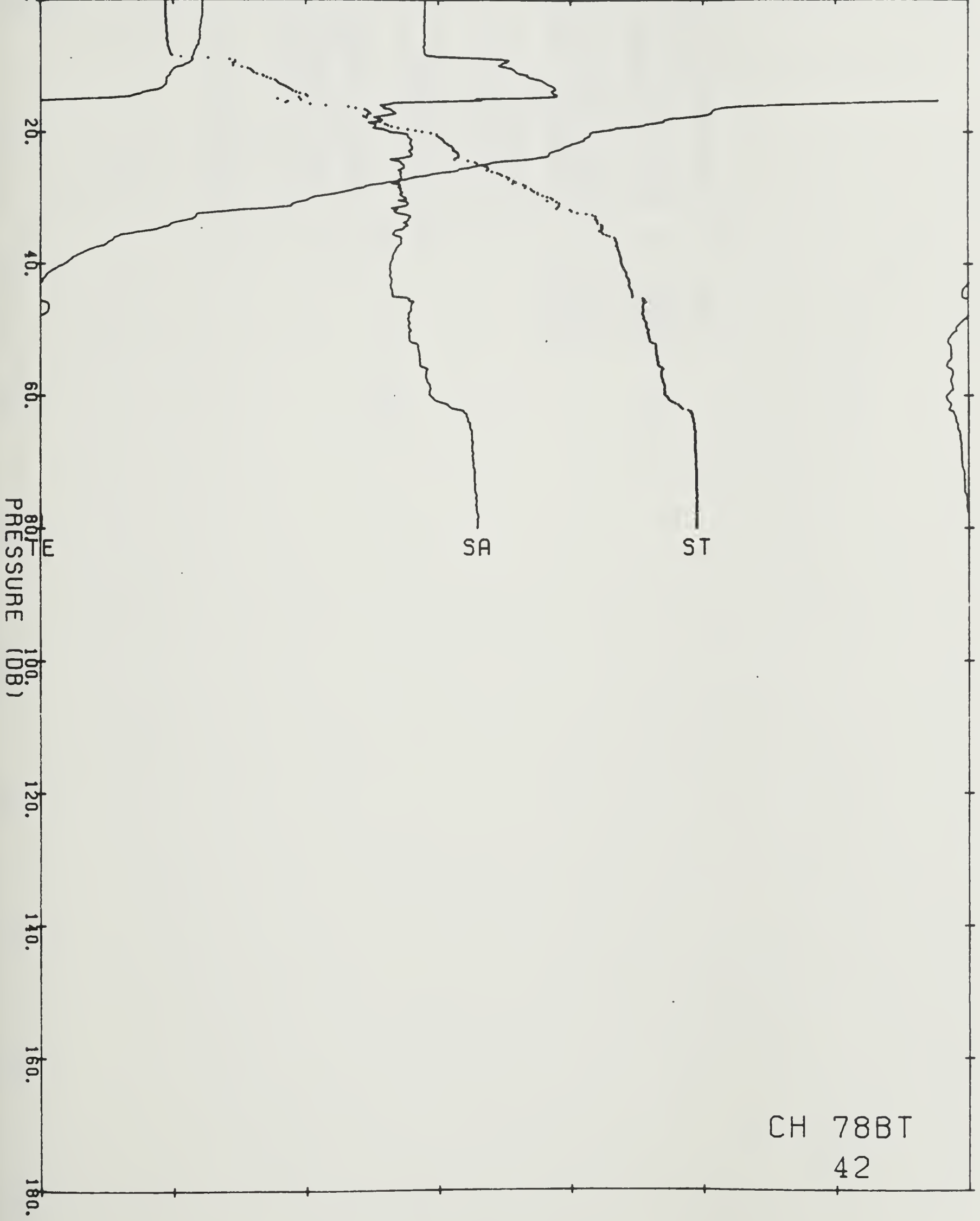
21. 22. 23. 24. 25. 26. 27. 28.

SALINITY (PPT)

30. 31. 32. 33. 34. 35. 36. 37.

TEMPERATURE (DEG C)

8. 10. 12. 14. 16. 18. 20. 22.



CH 78BT

42

SHIP CH CRUISE 78-BT STATION 43 POSITION 40 34.69 N 71 21.10 W
LOCAL TIME 1618 DATE 78/ 8/18 WIND = knots DIR = DEPTH= 65M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	24.286	31.922	21.231	654.8	0.000	1529.7	0.0
5	23.636	32.328	21.728	607.4	.032	1528.6	5.0
10	20.999	32.917	22.911	494.3	.059	1522.6	10.0
15	16.525	32.997	24.088	382.0	.081	1509.9	15.0
20	11.907	32.721	24.838	310.7	.098	1494.6	20.0
25	9.687	32.728	25.230	273.3	.113	1486.7	25.0
30	8.744	32.729	25.380	259.1	.127	1483.3	30.2
35	8.076	32.695	25.453	252.2	.140	1480.8	35.2
40	7.224	32.636	25.527	245.2	.152	1477.5	40.2
45	6.820	32.744	25.666	232.0	.164	1476.1	45.2
50	6.610	32.795	25.734	225.6	.175	1475.4	50.2
55	6.603	32.801	25.739	225.1	.187	1475.5	55.2
60	6.592	32.806	25.745	224.7	.197	1475.5	59.8

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
1		31.970						
9	21.880	32.895						
29	9.070	32.782						
59	6.600	32.803						
59	6.590	32.795						

SIGMA-T

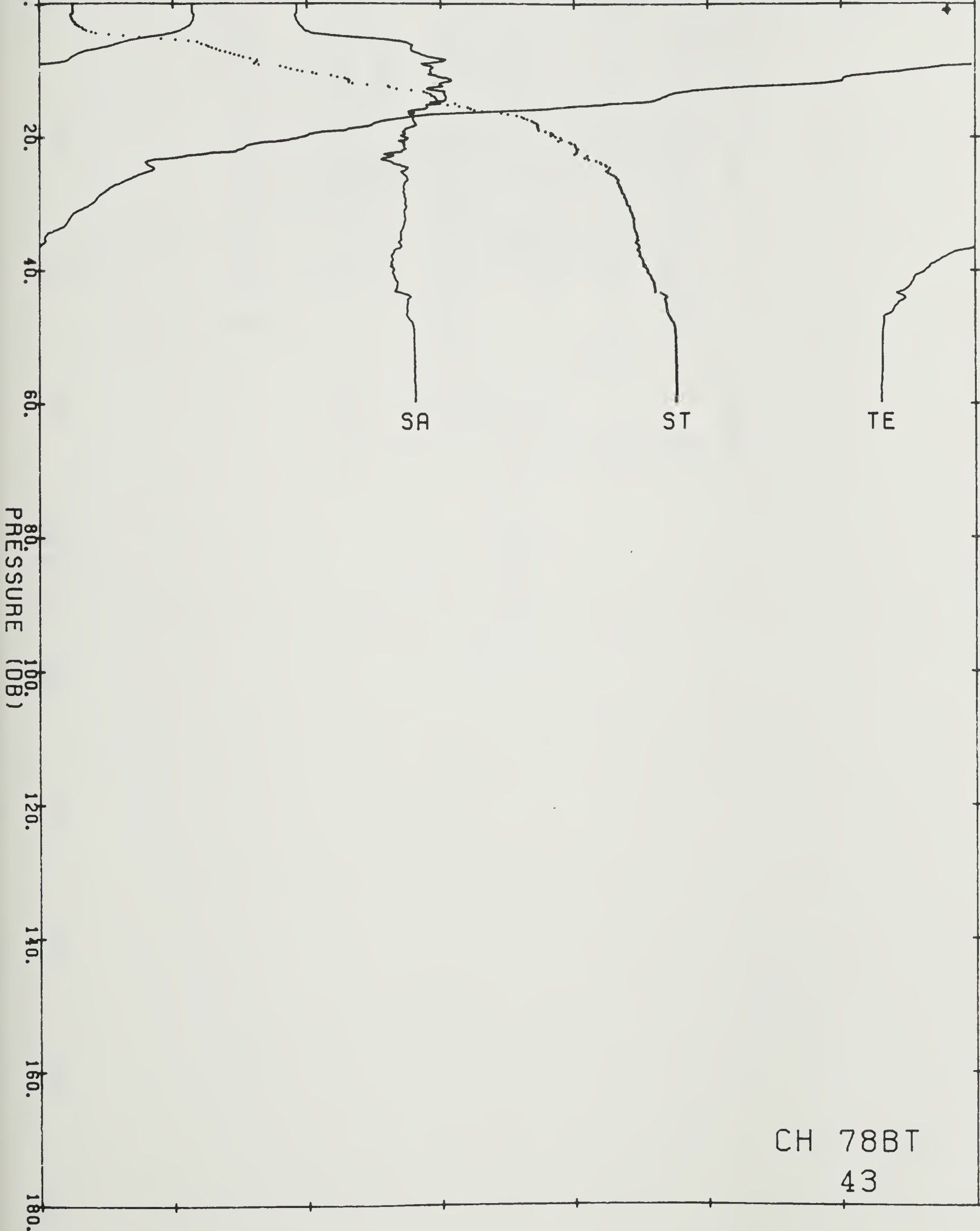
21. 22. 23. 24. 25. 26. 27. 28.

SALINITY (PPT)

30. 31. 32. 33. 34. 35. 36. 37.

TEMPERATURE (DEG C)

8. 10. 12. 14. 16. 18. 20. 22.



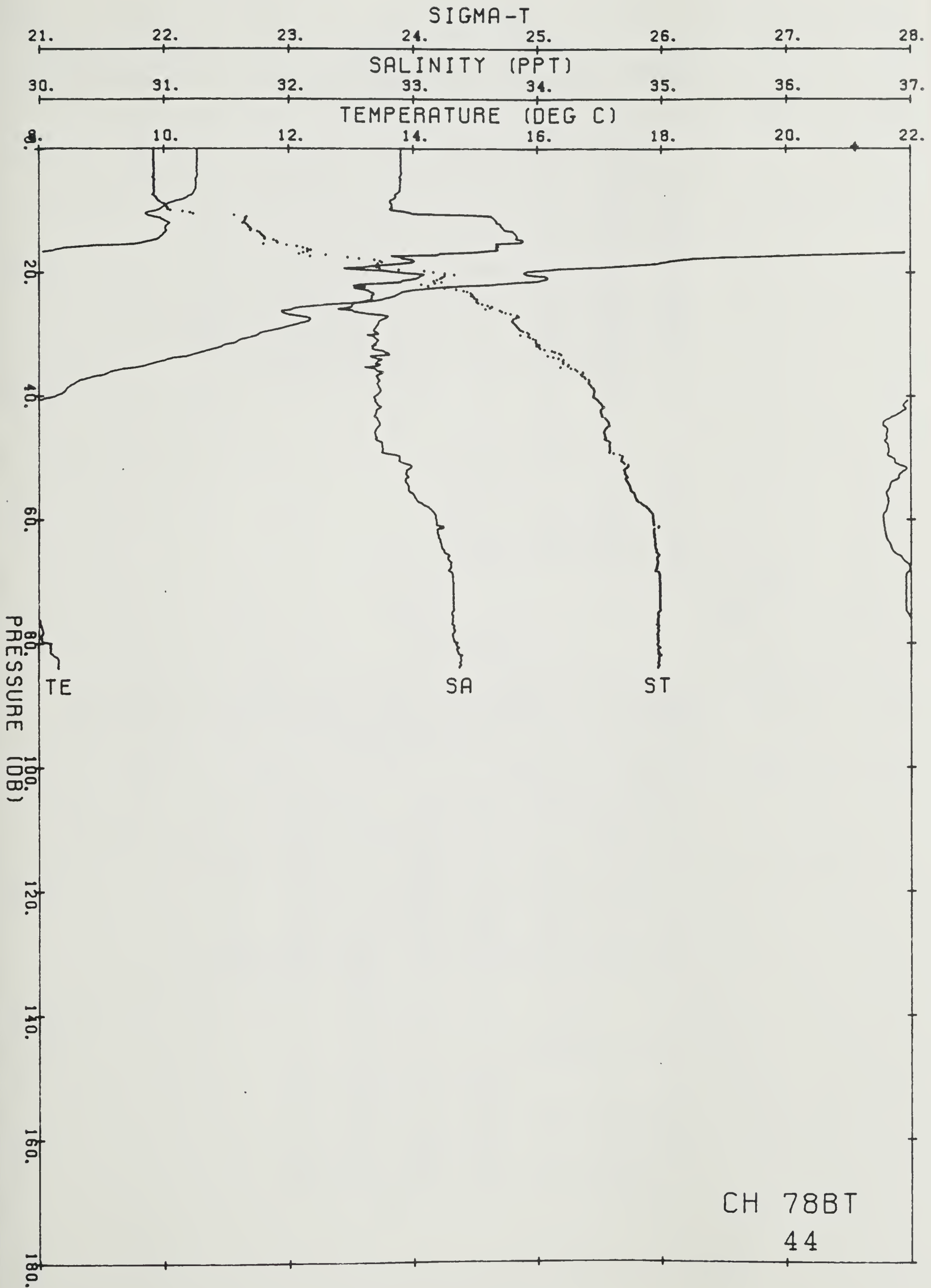
CH 78BT

43

SHIP CH CRUISE 78-BT STATION 44 POSITION 40 27.70 N 70 59.80 W
 LOCAL TIME 1946 DATE 78/ 8/18 WIND = knots DIR = DEPTH= 89M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	24.530	32.899	21.897	591.0	0.000	1531.4	0.0
5	24.506	32.901	21.905	590.4	.030	1531.4	5.0
10	23.865	32.817	22.031	578.5	.059	1529.8	10.0
15	23.706	33.883	22.884	497.2	.086	1530.7	15.0
20	15.780	32.843	24.140	377.3	.108	1507.5	20.0
25	12.868	32.521	24.499	343.0	.126	1497.7	25.0
30	11.481	32.623	24.839	310.7	.143	1493.2	30.2
35	9.636	32.709	25.224	274.1	.157	1486.7	35.2
40	8.176	32.681	25.427	254.7	.170	1481.2	40.2
45	7.608	32.706	25.529	245.1	.183	1479.2	45.2
50	7.736	32.888	25.654	233.3	.195	1480.0	50.2
55	7.624	32.961	25.727	226.5	.206	1479.7	55.2
60	7.551	33.182	25.911	209.0	.217	1479.8	60.2
65	7.720	33.244	25.936	206.8	.228	1480.6	65.2
70	7.920	33.322	25.968	203.8	.238	1481.6	70.4
75	7.970	33.308	25.950	205.7	.249	1481.8	75.4
80	8.186	33.344	25.947	206.1	.259	1482.8	80.4
84	8.310	33.367	25.946	206.2	.266	1483.3	84.0

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
1		32.940						
9			6.26	0.06	0.40	1.01		
13	19.320	33.085						
19			7.21	0.15	0.20	1.54		
39			7.08	0.30	0.60	2.29		
44			6.23	0.57	4.40	5.81		
59	7.620	33.501						
83	8.230	33.347	5.39	0.83	8.30	9.85		



SHIP CH CRUISE 78-BT STATION 45 POSITION 40 34.50 N 71 .60 W
 LOCAL TIME 2246 DATE 78/ 8/18 WIND = knots DIR = DEPTH= 77M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	24.406	33.066	22.060	575.4	0.000	1531.2	0.0
5	24.516	32.973	21.957	585.4	.029	1531.5	5.0
10	23.807	33.035	22.213	561.1	.058	1529.9	10.0
15	19.901	32.778	23.095	476.9	.084	1519.5	15.0
20	17.038	32.660	23.711	418.2	.106	1511.2	20.0
25	13.972	32.751	24.456	347.2	.125	1501.7	25.0
30	10.875	32.634	24.956	299.6	.142	1491.0	30.2
35	9.844	32.790	25.253	271.3	.156	1487.6	35.2
40	8.270	32.884	25.573	240.9	.169	1481.9	40.2
45	7.760	32.916	25.672	231.5	.181	1480.0	45.2
50	7.745	32.943	25.696	229.3	.192	1480.1	50.2
55	7.589	32.991	25.755	223.7	.204	1479.6	55.2
60	7.534	33.016	25.783	221.2	.215	1479.5	60.2
65	7.518	33.029	25.795	220.1	.226	1479.5	65.2
70	7.515	33.035	25.801	219.6	.237	1479.6	70.4
73	7.516	33.035	25.801	219.7	.243	1479.7	73.0

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
1		33.012						
5			5.07					
8		33.026						
14			5.57					
24			6.60					
29	13.600	32.804						
34			6.96					
44	7.770	32.932	5.84					
72	7.510	33.026	5.56					

SHIP CH CRUISE 78-BT STATION 46 POSITION 40 34.30 N 71 21.10 W
 LOCAL TIME 111 DATE 78/ 8/19 WIND = knots DIR = DEPTH= 69M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	23.905	31.913	21.336	644.8	0.000	1528.7	0.0
5	23.871	31.926	21.355	643.1	.032	1528.7	5.0
10	22.818	32.896	22.393	543.9	.062	1527.3	10.0
15	19.478	33.173	23.505	437.8	.086	1518.8	15.0
20	15.985	32.845	24.095	381.5	.107	1508.2	20.0
25	13.373	32.812	24.625	331.1	.125	1499.8	25.0
30	10.769	32.595	24.944	300.7	.141	1490.6	30.2
35	9.281	32.767	25.326	264.3	.155	1485.4	35.2
40	8.358	32.752	25.456	252.0	.168	1482.0	40.2
45	8.176	32.841	25.553	242.9	.181	1481.5	45.2
50	7.568	32.805	25.612	237.2	.193	1479.2	50.2
55	6.622	32.781	25.722	226.8	.204	1475.5	55.2
60	6.605	32.807	25.744	224.7	.215	1475.6	60.2
65	6.779	32.913	25.805	219.0	.226	1476.5	65.0

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
1		31.978	5.08	0.18	0.30	1.36		
4	23.930	32.025						
8			5.15	0.12	0.40	1.14		
14			5.87	0.11	0.30	0.66		
19			6.41	0.11	0.30	1.14		
24	12.520	32.846	6.83	0.19	0.30	1.41		
29			7.09	0.28	0.40	1.67		
33			7.10	0.21	0.40	2.11		
39	8.640	32.831	6.64	0.45	2.80	2.86		
64	6.760	32.843	5.61	0.86	8.20	11.92		

SIGMA-T

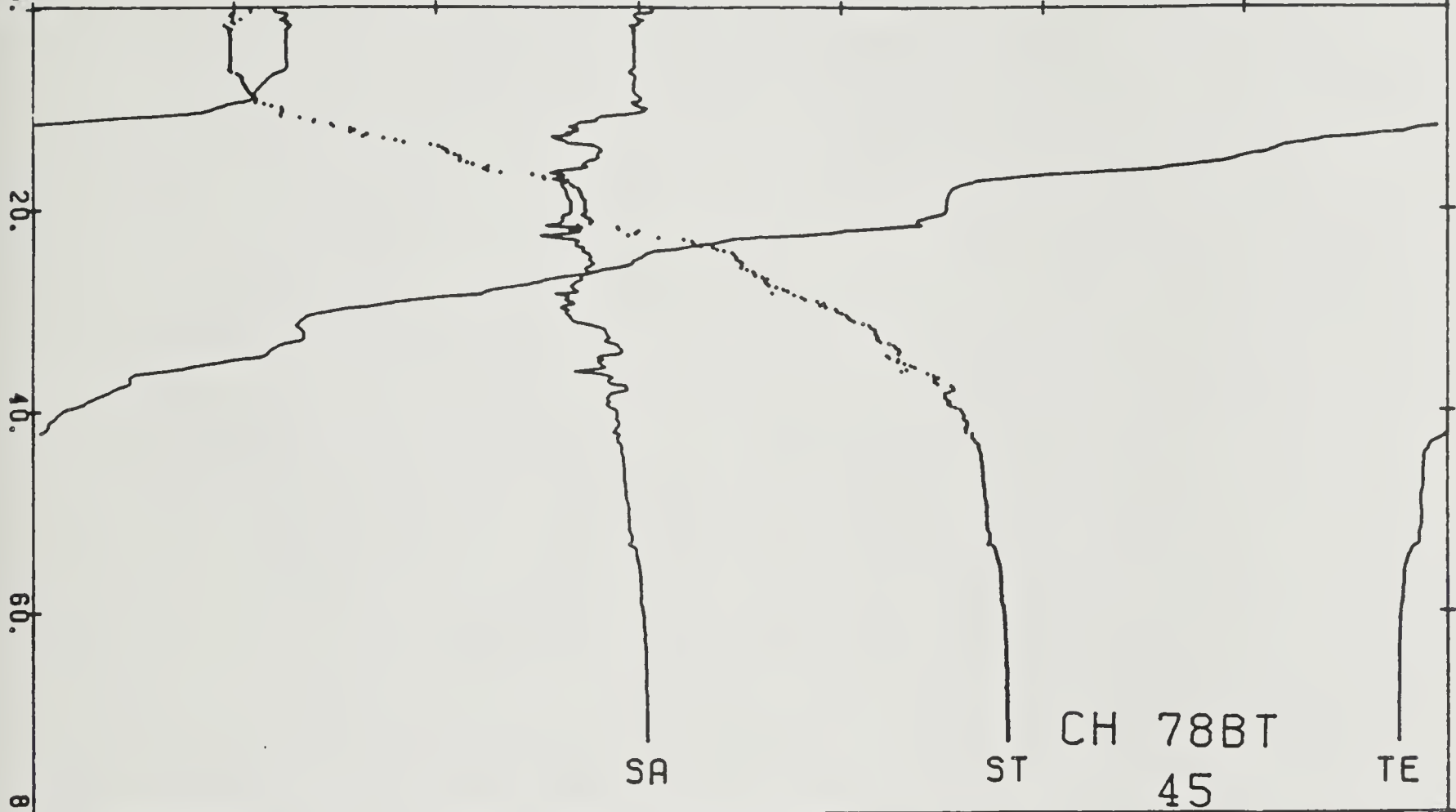
21. 22. 23. 24. 25. 26. 27. 28.

SALINITY (PPT)

30. 31. 32. 33. 34. 35. 36. 37.

TEMPERATURE (DEG C)

8. 10. 12. 14. 16. 18. 20. 22.



SIGMA-T

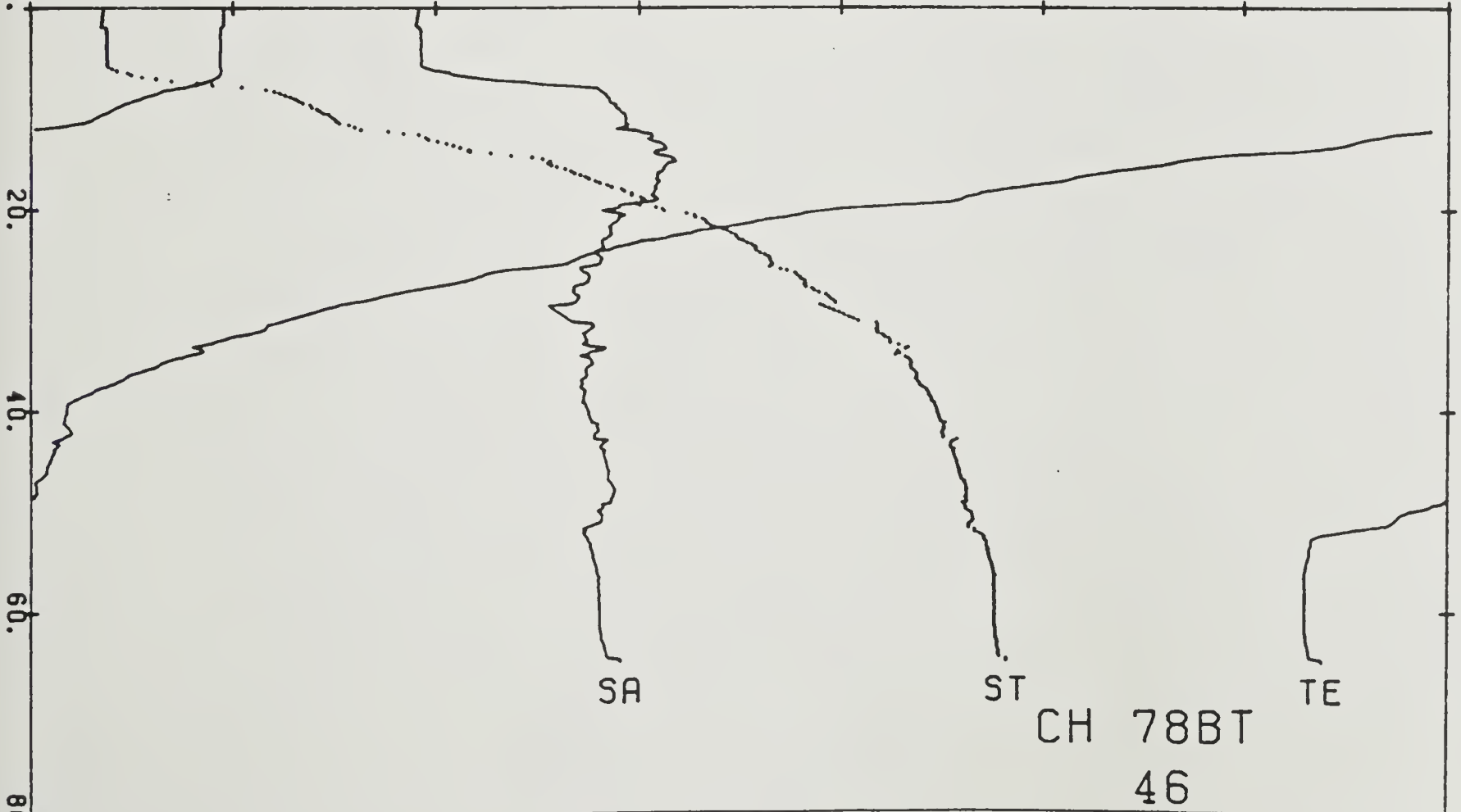
21. 22. 23. 24. 25. 26. 27. 28.

SALINITY (PPT)

30. 31. 32. 33. 34. 35. 36. 37.

TEMPERATURE (DEG C)

8. 10. 12. 14. 16. 18. 20. 22.

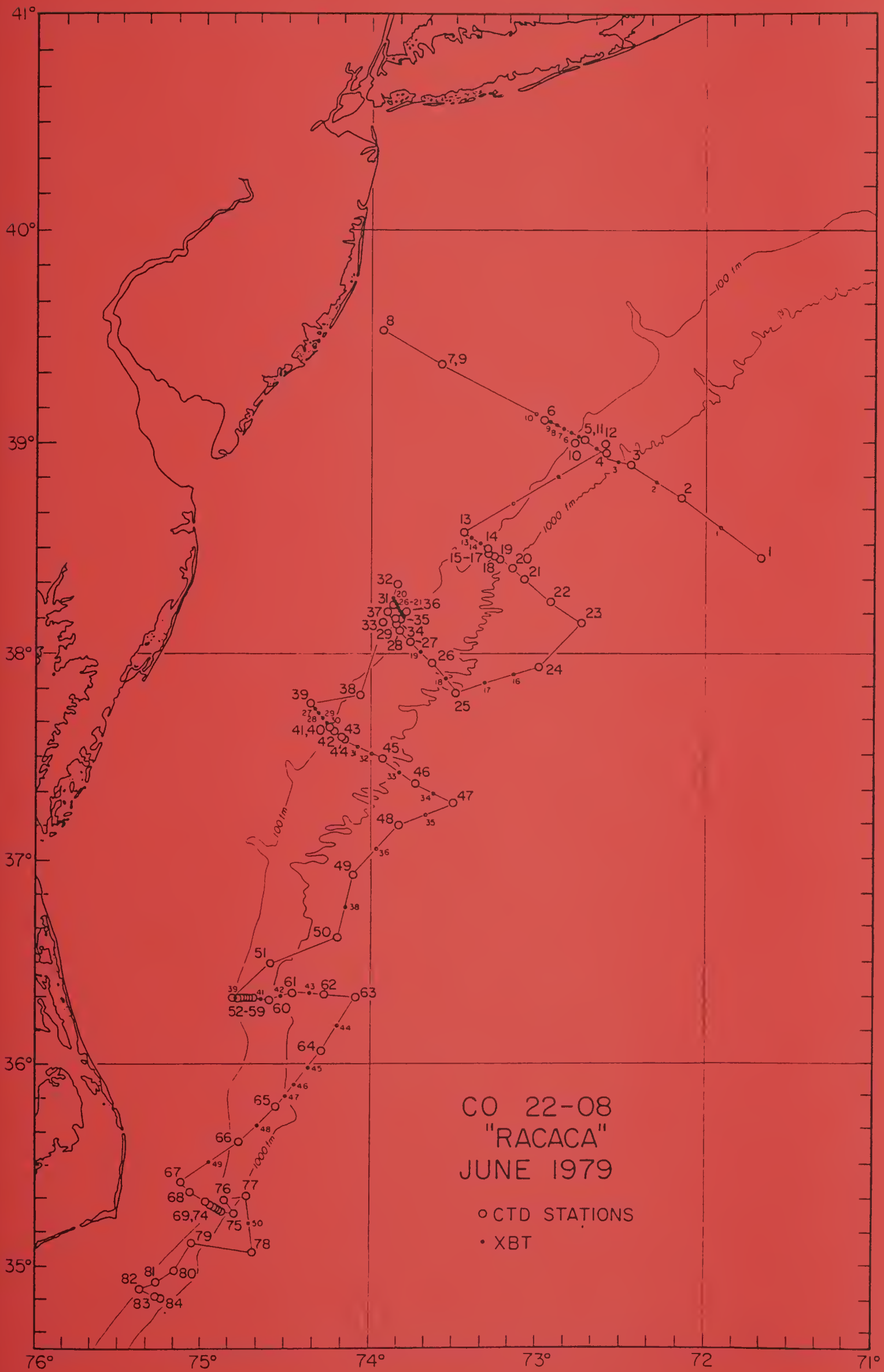


SHIP CH CRUISE 78-BT STATION 1 POSITION 39 23.30 N 73 44.30 W
LOCAL TIME 100 DATE 78/ 8/14 WIND = knots DIR = DEPTH= 110M

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
11		34.716	5.52					
36	18.750	34.715	6.73					
51		34.879	6.51					
61	13.480	34.788	5.83					
71		34.263	5.50					
89	11.800	34.896	4.96					

SHIP CH CRUISE 78-BT STATION 6 POSITION 40 57.83 N 71 35.00 W
LOCAL TIME 0730 DATE 78/ 8/15 DEPTH= 67M

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AMM
2		31.738	5.22	0.13	2.90	2.13	0.0	0.2
5			5.27	0.23	4.10	2.04	0.0	0.1
17	12.400	32.154		0.34	2.20	4.53	0.0	0.0
23	10.070	32.446	6.75	0.36	2.50	3.31	0.0	0.1
61	6.740	32.808	6.27	0.53	7.60	4.26	0.2	0.2



CONRAD 22-08

Cruise dates: 12 June 1979 - 30 June 1979

Station numbers: 1-84

CTD and bottle data (72): 1-6, 8-35, 38-44, 46-52, 56, 58-67,
69, 71-75, 77-84,

CTD data only (11): 7, 36-37, 45, 53-55, 57, 68, 70, 76

SHIP CO CRUISE 22-08 STATION 1 POSITION 38 28.36 N 71 40.63 W
 LOCAL TIME 1559 DATE 79/ 6/13 WIND DIR DEPTH=2861M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	20.058	34.180	24.122	378.4	.000	1521.3	.0
5	19.448	34.167	24.271	364.4	.019	1519.7	5.0
10	18.856	34.124	24.389	353.3	.037	1518.1	10.0
15	18.517	34.841	25.023	293.1	.052	1518.0	14.9
20	18.492	35.481	25.519	246.1	.066	1518.8	19.9
25	17.742	35.570	25.773	222.1	.078	1516.8	24.9
30	16.239	35.633	26.180	183.5	.088	1512.5	29.9
35	14.410	35.304	26.335	168.8	.097	1506.5	34.9
40	13.844	35.676	26.743	130.3	.104	1505.2	39.9
45	13.844	35.674	26.742	130.5	.111	1505.2	44.9
50	13.844	35.672	26.740	130.8	.117	1505.3	49.9
55	13.844	35.670	26.739	131.1	.124	1505.4	54.9
60	13.844	35.668	26.737	131.4	.130	1505.5	59.9
65	13.844	35.666	26.736	131.7	.137	1505.6	64.9
70	13.844	35.664	26.734	132.0	.143	1505.6	69.9
75	13.841	35.665	26.735	132.0	.151	1505.7	75.9
80	13.599	35.627	26.757	130.1	.158	1505.0	80.9
85	13.491	35.624	26.777	128.3	.164	1504.7	85.9
90	13.349	35.625	26.807	125.6	.171	1504.3	90.9
95	13.308	35.629	26.818	124.6	.177	1504.2	95.9
100	13.186	35.621	26.837	123.0	.183	1503.9	100.9
105	13.071	35.608	26.850	121.8	.189	1503.6	105.9
110	12.929	35.596	26.870	120.1	.195	1503.2	110.9
115	12.901	35.602	26.880	119.3	.201	1503.2	115.9
120	12.691	35.572	26.899	117.6	.207	1502.5	120.9
125	12.547	35.549	26.910	116.7	.213	1502.1	125.9
130	12.441	35.534	26.919	115.9	.219	1501.8	130.9
135	12.443	35.538	26.922	115.8	.225	1501.9	135.9
140	12.526	35.566	26.927	115.4	.230	1502.3	140.9
145	12.378	35.541	26.937	114.6	.236	1501.8	145.9
150	12.255	35.524	26.947	113.7	.242	1501.5	150.9
155	12.193	35.514	26.952	113.4	.248	1501.3	155.9
160	12.196	35.532	26.965	112.2	.253	1501.4	160.9
165	12.124	35.520	26.970	111.9	.259	1501.3	165.9
170	11.999	35.504	26.981	110.9	.264	1500.9	170.9
175	11.924	35.496	26.990	110.2	.270	1500.7	175.9
180	11.877	35.497	26.999	109.4	.275	1500.6	180.9
185	11.840	35.496	27.006	108.9	.281	1500.6	185.9
190	11.791	35.495	27.014	108.2	.286	1500.5	190.9
195	11.705	35.484	27.022	107.6	.292	1500.3	195.9
200	11.607	35.448	27.013	108.5	.297	1499.9	200.9
225	11.256	35.436	27.069	103.7	.325	1499.1	226.9
250	10.844	35.396	27.113	100.0	.350	1498.0	251.9
275	10.221	35.322	27.166	95.2	.374	1496.1	276.9
300	9.577	35.253	27.222	90.1	.398	1494.1	301.9
325	9.101	35.204	27.262	86.5	.420	1492.7	326.9
350	8.607	35.164	27.310	82.2	.442	1491.2	352.9
375	7.978	35.127	27.377	75.8	.461	1489.2	377.9
400	7.367	35.112	27.455	68.4	.479	1487.2	402.9
425	6.925	35.084	27.496	64.6	.496	1485.8	427.9
450	6.321	35.062	27.560	58.4	.511	1483.8	452.9
475	6.055	35.050	27.585	56.1	.526	1483.2	478.9
500	5.843	35.038	27.603	54.5	.540	1482.7	503.9
600	5.202	35.035	27.679	47.9	.592	1481.8	604.9
700	4.920	35.041	27.717	45.1	.639	1482.3	705.9
800	4.716	35.047	27.746	43.2	.683	1483.1	806.9
900	4.515	35.047	27.768	41.8	.726	1483.9	907.9
1000	4.232	35.017	27.775	41.5	.768	1484.4	1008.9
1100	4.078	35.005	27.782	41.5	.811	1485.4	1110.9
1200	3.971	35.002	27.791	41.3	.853	1486.6	1211.9
1300	3.898	35.004	27.800	41.2	.894	1488.0	1312.9
1400	3.837	35.003	27.806	41.4	.936	1489.4	1414.9
1500	3.779	35.003	27.812	41.5	.978	1490.9	1515.9
1600	3.693	35.002	27.820	41.3	1.020	1492.2	1617.9
1700	3.629	35.004	27.828	41.1	1.062	1493.6	1718.9
1800	3.571	35.003	27.833	41.2	1.104	1495.1	1820.9
1900	3.476	35.001	27.841	40.9	1.146	1496.3	1921.9
2000	3.381	34.998	27.847	40.6	1.187	1497.6	2023.9
2100	3.295	34.996	27.854	40.3	1.228	1499.0	2125.9
2200	3.193	34.990	27.859	40.1	1.269	1500.2	2226.9
2300	3.089	34.989	27.868	39.4	1.309	1501.5	2328.9
2400	3.004	34.984	27.872	39.2	1.350	1502.8	2430.9
2500	2.895	34.980	27.879	38.6	1.389	1504.1	2532.9
2600	2.786	34.974	27.884	38.1	1.428	1505.3	2634.9
2700	2.687	34.969	27.889	37.7	1.467	1506.6	2736.9
2800	2.471	34.960	27.901	35.7	1.505	1507.4	2838.9
2833	2.412	34.969	27.913	34.4	1.517	1507.8	2872.9

OTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AM
0		34.009	5.68					
11	18.730	35.018	5.74					
22		34.891						
27		34.921						
50		35.262						
299	9.580	35.225						
506		35.007						
897		35.009						
1402	3.840	34.978	6.16					
1791		34.977	6.09					
2274		35.044	5.63					
2829		35.090	5.55					

SIGMA-T

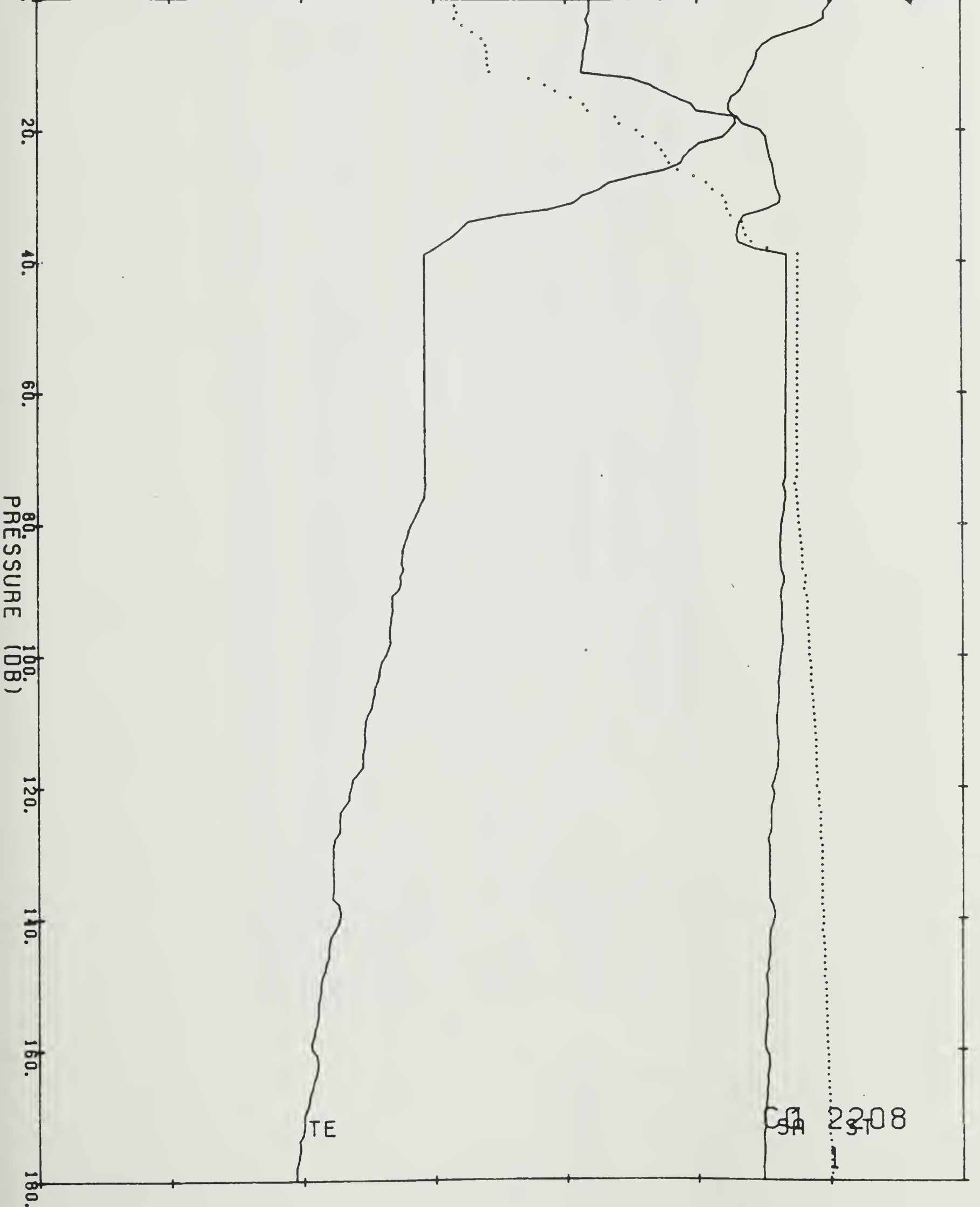
21. 22. 23. 24. 25. 26. 27. 28.

SALINITY (PPT)

30. 31. 32. 33. 34. 35. 36. 37.

TEMPERATURE (DEG C)

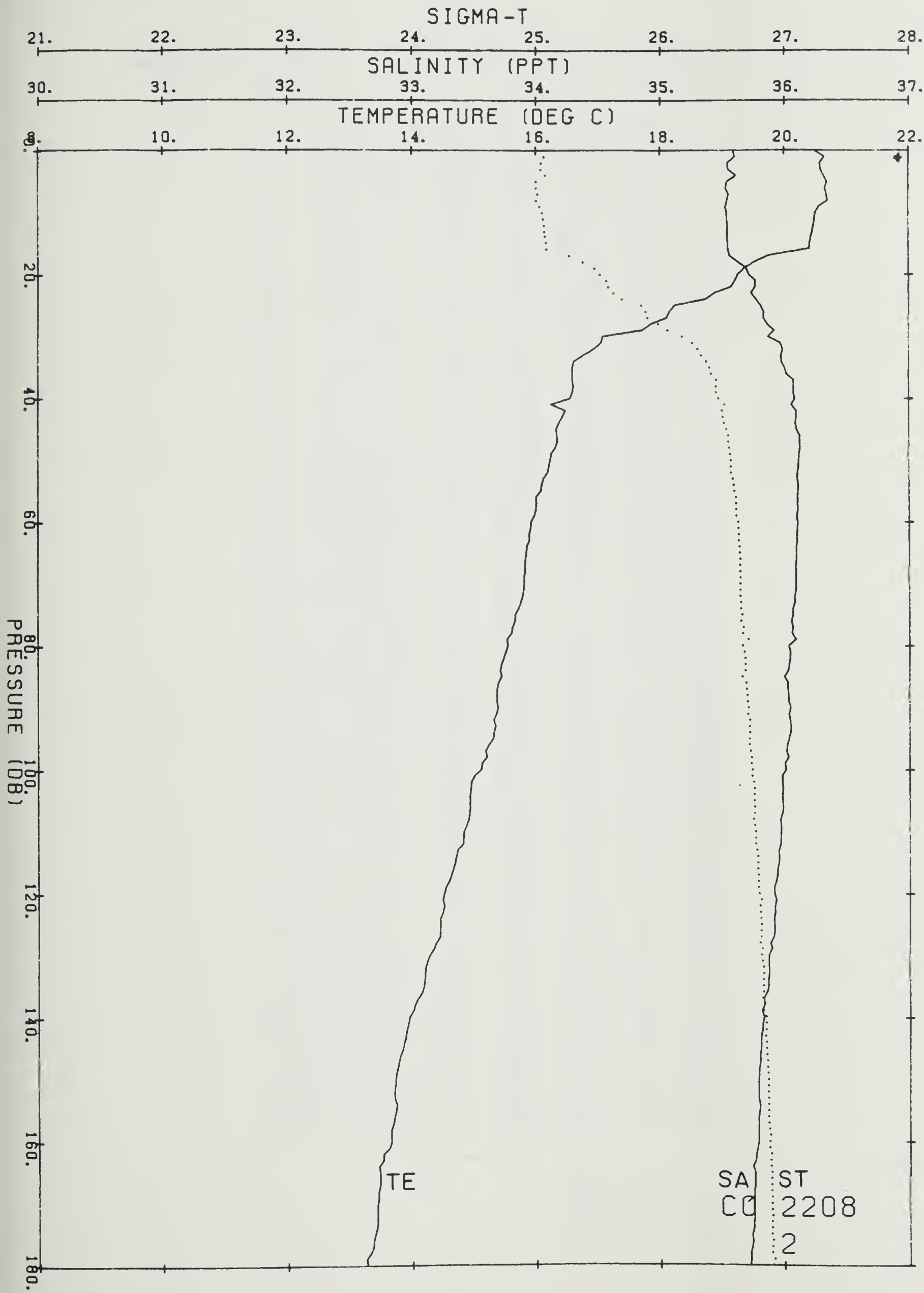
8. 10. 12. 14. 16. 18. 20. 22.



SHIP CO CRUISE 22-08 STATION 2 POSITION 38 46.46 N 72 8.66 W
 LOCAL TIME 2225 DATE 79/ 6/13 WIND = DIR = DEPTH=2652M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	20.504	35.590	25.079	287.3	.000	1524.2	.0
5	20.694	35.534	24.985	296.4	.015	1524.7	5.0
10	20.501	35.536	25.038	291.5	.029	1524.3	10.0
15	20.408	35.545	25.070	288.6	.043	1524.1	14.8
20	19.257	35.716	25.504	247.6	.057	1521.2	19.9
25	18.233	35.810	25.836	216.1	.069	1518.5	24.9
30	17.076	35.871	26.166	184.9	.079	1515.3	29.9
35	16.584	36.005	26.386	164.2	.087	1514.1	34.9
40	16.546	36.087	26.458	157.5	.095	1514.2	39.9
45	16.323	36.100	26.520	151.7	.103	1513.6	44.9
50	16.225	36.116	26.555	148.6	.111	1513.4	49.9
55	16.073	36.107	26.583	146.0	.118	1513.0	54.9
60	15.922	36.105	26.617	143.0	.125	1512.6	59.9
65	15.842	36.094	26.627	142.2	.132	1512.4	64.9
70	15.803	36.089	26.632	141.9	.139	1512.4	69.9
75	15.659	36.052	26.636	141.7	.148	1512.0	75.9
80	15.508	36.044	26.664	139.1	.155	1511.6	80.9
85	15.388	36.028	26.679	137.9	.162	1511.3	85.9
90	15.357	36.033	26.690	137.0	.169	1511.3	90.9
95	15.235	36.019	26.706	135.6	.176	1510.9	95.9
100	15.000	35.977	26.726	133.8	.182	1510.2	100.9
105	14.925	35.984	26.748	131.8	.189	1510.1	105.9
110	14.820	35.965	26.757	131.2	.195	1509.8	110.9
115	14.655	35.940	26.774	129.7	.202	1509.3	115.9
120	14.490	35.929	26.801	127.2	.208	1508.9	120.9
125	14.445	35.915	26.800	127.4	.215	1508.8	125.9
130	14.237	35.868	26.808	126.7	.221	1508.1	130.8
135	14.155	35.856	26.817	126.1	.227	1508.0	135.8
140	13.928	35.820	26.837	124.2	.234	1507.3	140.8
145	13.804	35.797	26.845	123.6	.240	1506.9	145.9
150	13.714	35.784	26.854	122.9	.246	1506.7	150.9
155	13.703	35.786	26.858	122.6	.252	1506.7	155.9
160	13.624	35.776	26.867	121.9	.258	1506.5	160.9
165	13.475	35.755	26.882	120.6	.264	1506.1	165.9
170	13.427	35.749	26.887	120.3	.270	1506.0	170.9
175	13.364	35.740	26.893	119.8	.276	1505.9	175.9
180	13.244	35.713	26.897	119.5	.282	1505.5	180.9
185	13.172	35.704	26.904	118.9	.288	1505.4	185.9
190	13.086	35.687	26.909	118.6	.294	1505.1	190.9
195	13.007	35.671	26.912	118.4	.300	1504.9	195.9
200	12.874	35.647	26.920	117.7	.306	1504.5	200.9
225	12.536	35.606	26.956	114.9	.336	1503.8	226.9
250	12.100	35.543	26.992	111.9	.365	1502.6	251.9
275	11.726	35.508	27.037	108.2	.392	1501.7	276.9
300	11.188	35.441	27.085	103.9	.419	1500.1	301.9
325	10.562	35.366	27.140	99.0	.444	1498.2	326.9
350	10.060	35.312	27.186	94.9	.469	1496.8	352.9
375	9.492	35.247	27.231	90.7	.493	1495.0	377.9
400	8.960	35.195	27.278	86.4	.515	1493.4	402.9
425	8.370	35.151	27.336	80.9	.536	1491.5	427.9
450	7.789	35.116	27.397	75.1	.555	1489.7	452.9
475	7.510	35.103	27.428	72.4	.574	1489.0	478.9
500	7.080	35.085	27.475	67.9	.592	1487.7	503.9
600	5.607	35.021	27.619	54.1	.653	1483.4	604.9
700	5.138	35.039	27.690	48.0	.705	1483.2	705.8
800	4.821	35.040	27.728	45.1	.752	1483.5	806.8
900	4.588	35.038	27.753	43.4	.797	1484.2	907.9
1000	4.369	35.023	27.765	42.8	.840	1485.0	1008.9
1100	4.192	35.012	27.776	42.4	.884	1485.9	1110.9
1200	4.055	35.006	27.785	42.1	.926	1487.0	1211.9
1300	3.940	35.000	27.793	42.0	.969	1488.2	1312.9
1400	3.888	35.003	27.800	42.0	1.012	1489.6	1414.9
1500	3.806	35.000	27.807	42.0	1.054	1491.0	1515.9
1600	3.730	34.999	27.813	42.0	1.096	1492.3	1616.9
1700	3.669	35.001	27.821	41.9	1.139	1493.8	1718.9
1800	3.588	34.979	27.812	43.2	1.183	1495.1	1820.9
1900	3.502	34.976	27.818	43.1	1.226	1496.4	1921.9
2000	3.419	34.978	27.828	42.6	1.270	1497.8	2023.9
2100	3.333	34.972	27.831	42.6	1.313	1499.1	2125.9
2162	3.275	34.973	27.838	42.2	1.340	1499.9	2188.9

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AM
0		35.526	5.46					
0	20.610	35.528						
10		35.510						
20		35.707						
39		36.049						
57	16.150	36.088						
111		35.946	4.97					
502		34.996	4.24					
999	4.340	34.969	5.94					
1497		35.045	6.22					
1986		35.071	5.74					



SHIP CO CRUISE 22-08 STATION 3 POSITION 38 54.00 N 72 27.60 W
 LOCAL TIME 547 DATE 79/ 6/14 WIND = DIR = DEPTH=2258M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	20.319	35.440	25.014	293.5	.000	1523.5	.0
5	20.355	35.421	24.990	295.9	.015	1523.7	5.0
10	20.361	35.420	24.988	296.3	.030	1523.8	10.0
15	20.362	35.420	24.987	296.5	.044	1523.8	14.9
20	20.298	35.421	25.005	295.0	.059	1523.8	19.9
25	18.758	35.838	25.725	226.7	.072	1520.1	24.9
30	17.759	35.848	25.982	202.4	.083	1517.3	29.9
35	16.909	35.925	26.247	177.3	.092	1515.0	34.9
40	16.693	35.950	26.318	170.8	.101	1514.4	39.9
45	16.228	35.965	26.438	159.5	.109	1513.1	44.9
50	16.054	35.989	26.497	154.1	.117	1512.7	49.9
55	16.227	36.144	26.576	146.7	.124	1513.5	54.9
60	15.978	36.120	26.616	143.1	.132	1512.8	59.9
65	15.771	36.083	26.634	141.5	.139	1512.2	64.9
70	15.598	36.052	26.650	140.1	.146	1511.7	69.9
75	15.450	36.030	26.667	138.7	.154	1511.3	75.9
80	15.379	36.028	26.681	137.5	.161	1511.2	80.9
85	15.264	36.012	26.694	136.4	.168	1510.9	85.9
90	15.076	35.999	26.726	133.5	.175	1510.3	90.9
95	15.015	36.006	26.745	131.8	.181	1510.2	95.9
100	14.893	35.973	26.747	131.8	.188	1509.9	100.9
105	14.709	35.939	26.761	130.6	.195	1509.3	105.9
110	14.578	35.930	26.783	128.7	.201	1509.0	110.9
115	14.524	35.928	26.793	127.8	.207	1508.9	115.9
120	14.497	35.928	26.799	127.4	.214	1508.9	120.9
125	14.367	35.907	26.811	126.4	.220	1508.5	125.9
130	14.337	35.900	26.812	126.5	.226	1508.5	130.9
135	14.332	35.911	26.821	125.7	.233	1508.6	135.9
140	14.309	35.905	26.821	125.8	.239	1508.6	140.9
145	14.209	35.885	26.828	125.4	.245	1508.3	145.9
150	14.108	35.876	26.842	124.1	.252	1508.1	150.9
155	13.960	35.873	26.871	121.4	.258	1507.7	155.9
160	13.938	35.845	26.854	123.2	.264	1507.6	160.9
165	13.792	35.816	26.863	122.5	.270	1507.2	165.9
170	13.610	35.779	26.872	121.7	.276	1506.7	170.9
175	13.529	35.759	26.873	121.7	.282	1506.4	175.9
180	13.474	35.756	26.882	121.0	.288	1506.3	180.9
185	13.373	35.739	26.890	120.3	.294	1506.1	185.9
190	13.267	35.721	26.898	119.7	.300	1505.8	190.9
195	13.177	35.704	26.903	119.3	.306	1505.5	195.9
200	13.111	35.686	26.903	119.5	.312	1505.4	200.9
225	12.653	35.619	26.943	116.2	.343	1504.2	226.9
250	12.286	35.562	26.971	114.0	.372	1503.3	251.9
275	11.808	35.493	27.010	110.8	.400	1501.9	276.9
300	11.292	35.454	27.076	104.8	.427	1500.5	301.9
325	10.690	35.380	27.128	100.2	.452	1498.7	326.9
350	9.908	35.296	27.199	93.5	.477	1496.2	352.9
375	9.286	35.228	27.251	88.8	.500	1494.2	377.9
400	8.533	35.160	27.318	82.3	.522	1491.7	402.9
425	8.243	35.138	27.346	79.9	.542	1491.0	427.9
450	7.654	35.104	27.407	74.0	.561	1489.1	452.9
475	7.300	35.092	27.449	70.2	.580	1488.2	478.9
500	6.748	35.072	27.511	64.2	.597	1486.4	503.9
600	5.655	35.048	27.635	52.7	.656	1483.6	604.9
700	5.119	35.044	27.696	47.4	.706	1483.1	705.9
800	4.788	35.040	27.732	44.7	.753	1483.4	806.9
900	4.541	35.029	27.751	43.5	.797	1484.0	907.9
1000	4.383	35.022	27.763	43.0	.841	1485.0	1008.9
1100	4.207	35.010	27.772	42.7	.885	1486.0	1110.9
1200	4.098	35.005	27.780	42.7	.928	1487.2	1211.9
1300	4.010	35.000	27.785	42.9	.971	1488.5	1312.9
1400	3.944	35.002	27.794	42.8	1.015	1489.9	1414.9
1500	3.868	34.993	27.795	43.4	1.058	1491.2	1515.9
1600	3.762	34.998	27.809	42.5	1.102	1492.5	1616.9
1700	3.695	34.995	27.814	42.7	1.145	1493.9	1718.9
1800	3.635	34.989	27.815	43.1	1.189	1495.3	1820.9
1900	3.538	34.998	27.832	42.0	1.232	1496.6	1921.9
2000	3.474	34.994	27.835	42.2	1.275	1498.0	2023.9
2100	3.381	34.990	27.841	41.9	1.318	1499.3	2125.9
2200	3.150	34.982	27.857	40.1	1.359	1500.0	2226.9
2258	3.170	34.980	27.853	40.9	1.383	1501.1	2285.9

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AM
7	20.320	35.390						
290	11.460	35.438						
498		35.034						
1000	4.370	35.001						
1244		34.978						
1633		34.995						

SIGMA-T

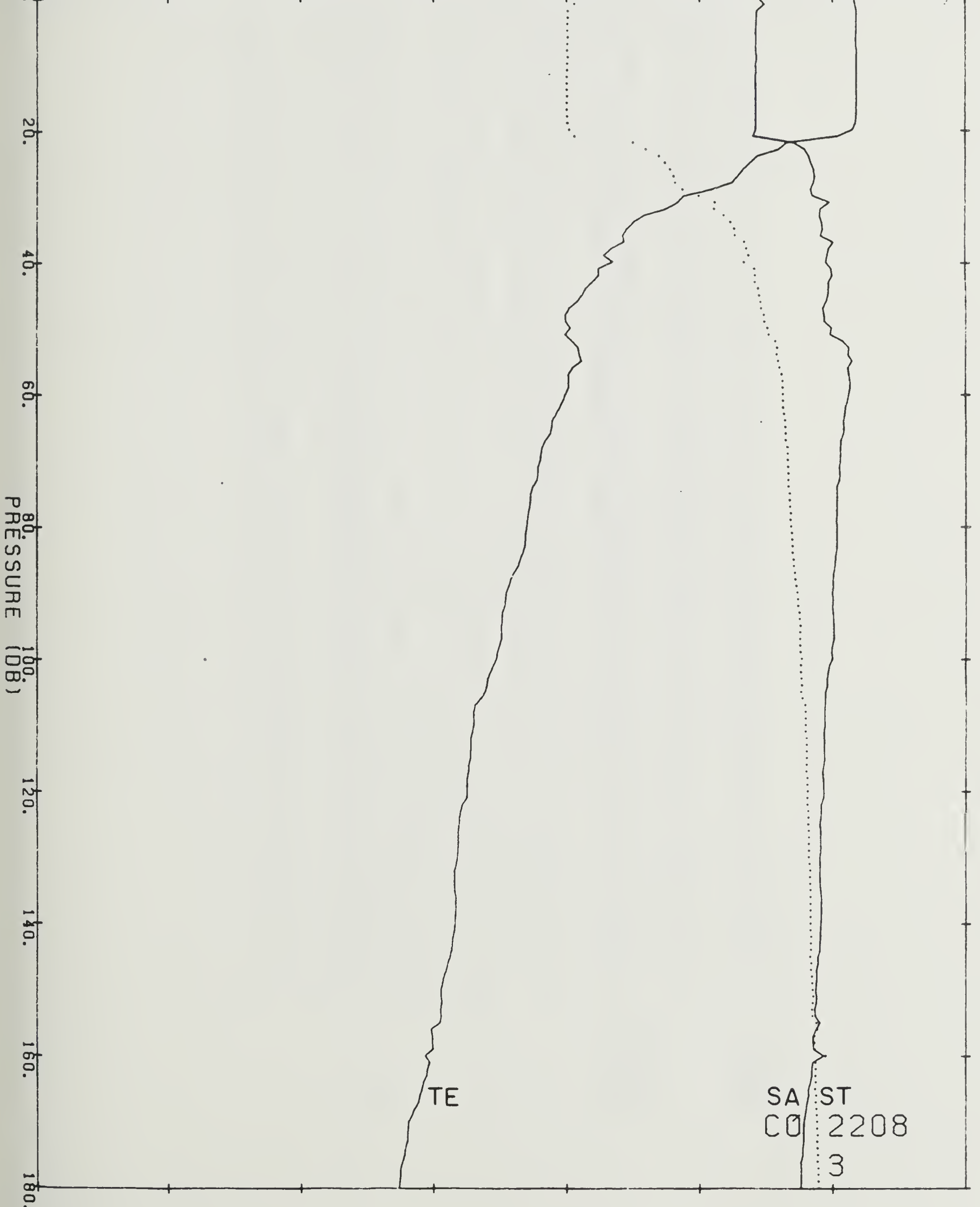
21. 22. 23. 24. 25. 26. 27. 28.

SALINITY (PPT)

30. 31. 32. 33. 34. 35. 36. 37.

TEMPERATURE (DEG C)

8. 10. 12. 14. 16. 18. 20. 22.



SHIP CO CRUISE 22-08 STATION 4 POSITION 38 57.50 N 72 37.00 W
 LOCAL TIME 1035 DATE 79/ 6/14 WIND = DIR = DEPTH=1180M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	20.174	35.456	25.065	288.6	0.000	1523.1	0.0
9	20.179	35.451	25.060	289.4	.027	1523.3	9.5
15	20.159	35.459	25.071	288.6	.045	1523.4	15.5
21	19.698	35.478	25.207	275.8	.062	1522.2	21.5
27	18.311	35.715	25.744	225.0	.077	1518.7	27.5
33	17.454	36.010	26.181	183.6	.089	1516.7	33.5
39	16.897	36.048	26.345	168.2	.100	1515.2	39.5
45	16.387	36.042	26.461	157.4	.109	1513.7	45.5
51	16.154	36.056	26.526	151.4	.119	1513.1	51.5
57	16.060	36.102	26.583	146.1	.128	1513.0	57.5
63	15.929	36.111	26.620	142.8	.136	1512.7	63.5
69	15.732	36.083	26.643	140.8	.145	1512.1	69.5
75	15.473	36.039	26.668	138.6	.153	1511.4	75.5
81	15.214	35.999	26.696	136.1	.161	1510.6	81.5
87	14.983	35.966	26.722	133.8	.169	1510.0	87.5
93	14.726	35.928	26.749	131.4	.177	1509.2	93.5
99	14.511	35.901	26.775	129.0	.185	1508.6	99.5
105	14.412	35.891	26.788	127.9	.193	1508.3	105.5
111	14.298	35.874	26.800	127.0	.201	1508.0	111.5
117	14.109	35.845	26.818	125.4	.208	1507.5	117.5
123	13.863	35.801	26.836	123.9	.216	1506.7	123.5
129	13.539	35.733	26.852	122.5	.223	1505.7	129.5
135	13.204	35.673	26.874	120.5	.230	1504.6	135.5
141	12.961	35.626	26.887	119.3	.237	1503.8	141.5
147	12.767	35.585	26.894	118.8	.245	1503.2	147.5
153	12.746	35.584	26.898	118.6	.252	1503.2	153.5
158	12.758	35.589	26.898	118.7	.259	1503.4	159.5
164	12.799	35.605	26.903	118.4	.266	1503.6	165.5
170	12.801	35.613	26.908	118.0	.273	1503.8	171.5
176	12.754	35.611	26.917	117.4	.280	1503.7	177.5
182	12.610	35.586	26.926	116.7	.287	1503.3	183.5
188	12.513	35.580	26.941	115.4	.294	1503.0	189.5
194	12.498	35.588	26.949	114.7	.301	1503.1	195.5
200	12.434	35.582	26.957	114.1	.308	1503.0	201.5
206	12.333	35.566	26.965	113.5	.315	1502.7	207.5
212	12.177	35.546	26.980	112.2	.321	1502.2	213.5
218	12.064	35.537	26.995	110.9	.328	1501.9	219.5
224	11.922	35.516	27.006	109.9	.335	1501.5	225.5
230	11.744	35.496	27.024	108.3	.341	1501.0	231.5
236	11.645	35.491	27.039	107.0	.348	1500.7	237.5
242	11.561	35.481	27.047	106.3	.354	1500.5	243.5
248	11.445	35.469	27.059	105.3	.361	1500.2	249.5
254	11.303	35.454	27.074	103.9	.367	1499.8	255.5
275	10.626	35.382	27.141	97.7	.388	1497.6	276.9
300	9.931	35.297	27.196	92.7	.412	1495.4	302.1
325	9.301	35.234	27.253	87.5	.435	1493.5	327.3
350	8.655	35.172	27.308	82.4	.457	1491.4	352.5
375	8.180	35.138	27.356	78.0	.477	1489.9	377.8
400	7.634	35.107	27.413	72.6	.496	1488.2	403.0
425	7.067	35.085	27.477	66.5	.513	1486.4	428.2
450	6.550	35.068	27.534	61.0	.529	1484.8	453.4
475	6.261	35.065	27.571	57.7	.544	1484.0	478.7
500	5.837	35.048	27.612	53.7	.558	1482.7	503.9
600	5.233	35.048	27.686	47.3	.609	1481.9	604.9
700	4.888	35.041	27.721	44.7	.656	1482.2	705.9
800	4.574	35.032	27.749	42.6	.700	1482.5	807.0
900	4.362	35.022	27.765	41.8	.743	1483.3	908.2
1000	4.199	35.009	27.773	41.7	.785	1484.2	1009.3
1100	4.129	35.007	27.779	42.0	.827	1485.6	1110.6
1180	4.132	35.008	27.779	42.7	.862	1487.0	1192.0

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AM
0		35.434						
111		35.714						
256		35.386						
504		35.015						
1002		35.021						
1100		35.006						

SIGMA-T

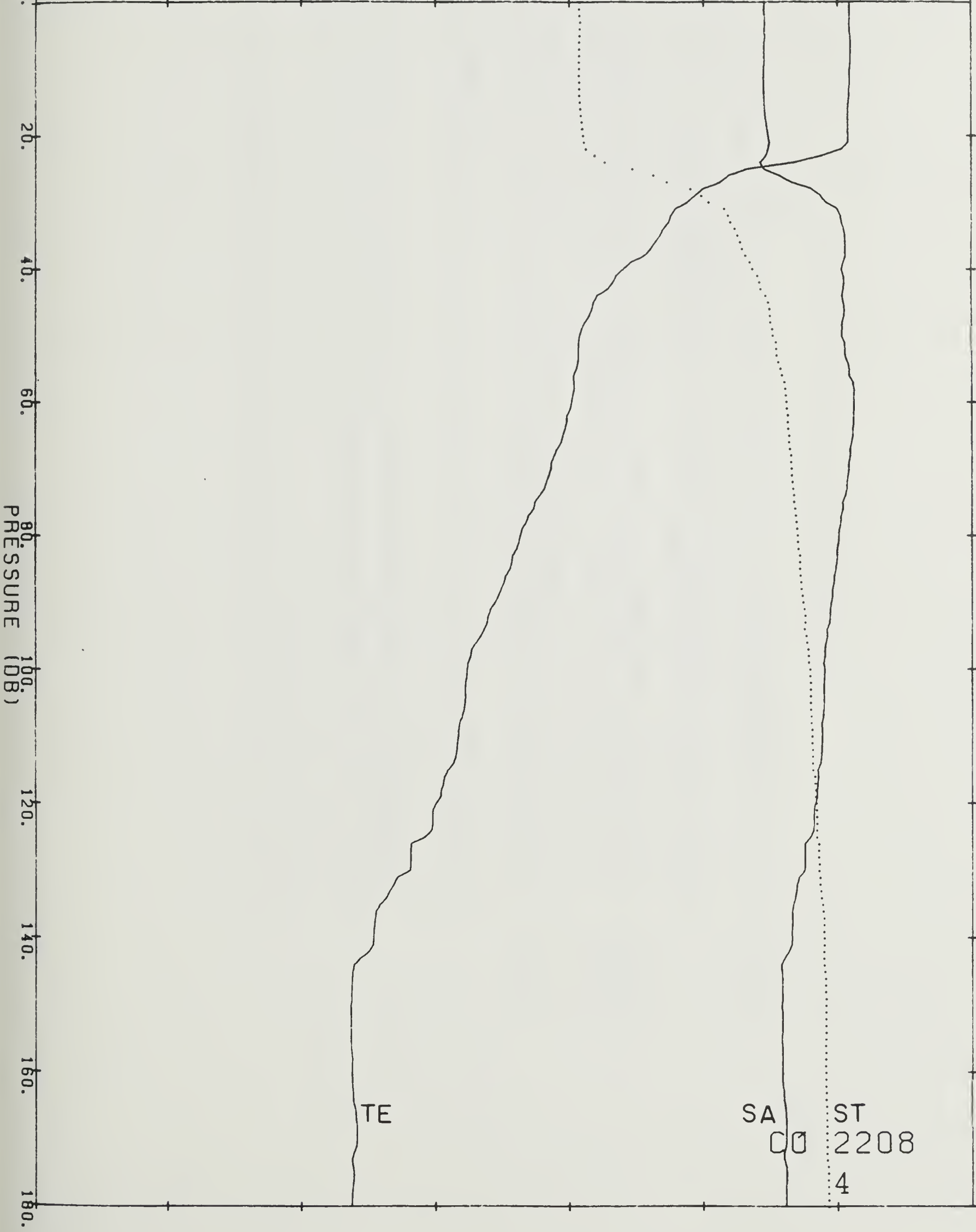
21. 22. 23. 24. 25. 26. 27. 28.

SALINITY (PPT)

30. 31. 32. 33. 34. 35. 36. 37.

TEMPERATURE (DEG C)

8. 10. 12. 14. 16. 18. 20. 22.



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PRESSURE (DB)

SHIP CO CRUISE 22-08 STATION 5 POSITION 39 1.97 N 72 45.71 W
 LOCAL TIME 1804 DATE 79/ 6/14 WIND = DIR = DEPTH= 576M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	21.047	35.214	24.646	328.5	.000	1525.2	.0
5	20.657	35.186	24.730	320.7	.016	1524.2	5.0
10	20.338	35.205	24.830	311.3	.032	1523.5	10.0
15	20.352	35.320	24.914	303.5	.047	1523.7	14.9
20	20.432	35.407	24.959	299.4	.062	1524.1	19.9
25	20.174	35.436	25.049	291.0	.077	1523.5	24.9
30	18.815	35.667	25.579	240.7	.090	1520.1	29.9
35	18.343	35.722	25.741	225.5	.102	1518.9	34.9
40	17.962	35.834	25.921	208.5	.113	1518.0	39.9
45	17.593	35.872	26.041	197.3	.123	1517.1	44.9
50	16.889	35.894	26.228	179.6	.132	1515.1	49.9
55	16.279	35.863	26.348	168.4	.141	1513.3	54.9
60	16.110	35.911	26.424	161.3	.149	1512.9	59.9
65	15.913	35.918	26.475	156.6	.157	1512.4	64.9
70	15.886	35.920	26.483	156.0	.165	1512.4	69.9
75	15.693	35.930	26.535	151.3	.173	1511.9	74.9
80	15.309	35.882	26.584	146.7	.182	1510.8	80.9
85	15.287	35.880	26.588	146.5	.189	1510.8	85.9
90	14.893	35.818	26.627	142.8	.196	1509.5	90.9
95	14.461	35.748	26.667	139.1	.203	1508.2	95.9
100	14.326	35.723	26.677	138.3	.210	1507.8	100.9
105	13.950	35.651	26.702	136.1	.217	1506.5	105.9
110	13.751	35.625	26.723	134.1	.224	1505.9	110.9
115	13.561	35.597	26.741	132.5	.231	1505.4	115.9
120	13.268	35.583	26.791	127.9	.237	1504.5	120.9
125	13.176	35.573	26.802	127.0	.243	1504.2	125.9
130	12.889	35.545	26.838	123.6	.250	1503.3	130.9
135	12.775	35.541	26.858	121.9	.256	1503.0	135.9
140	12.787	35.553	26.865	121.3	.262	1503.1	140.9
145	12.524	35.498	26.874	120.5	.268	1502.3	145.9
150	12.171	35.441	26.899	118.2	.274	1501.1	150.9
155	12.186	35.470	26.919	116.5	.280	1501.2	155.9
160	12.185	35.486	26.932	115.4	.286	1501.3	160.9
165	12.186	35.505	26.946	114.1	.291	1501.4	165.9
170	12.095	35.496	26.957	113.2	.297	1501.2	170.9
175	11.970	35.483	26.971	112.0	.303	1500.8	175.9
180	11.962	35.486	26.975	111.8	.308	1500.9	180.9
185	11.883	35.481	26.986	110.8	.314	1500.7	185.9
190	11.853	35.482	26.992	110.3	.319	1500.7	190.9
195	11.693	35.483	27.024	107.4	.325	1500.2	195.9
200	11.459	35.456	27.046	105.3	.330	1499.4	200.9
225	10.232	35.335	27.174	93.4	.356	1495.4	226.9
250	8.507	35.173	27.332	78.1	.377	1489.2	251.9
275	7.937	35.128	27.384	73.3	.396	1487.4	276.9
300	7.378	35.095	27.440	68.1	.414	1485.6	301.9
325	6.790	35.059	27.495	63.0	.430	1483.6	326.9
350	6.299	35.054	27.557	57.2	.446	1482.1	352.9
375	5.987	35.046	27.591	54.1	.460	1481.3	377.9
400	5.649	35.036	27.626	50.9	.473	1480.3	402.9
425	5.421	35.029	27.648	48.9	.485	1479.8	427.9
450	5.241	35.025	27.667	47.3	.498	1479.4	453.9
475	5.136	35.024	27.679	46.3	.510	1479.4	478.9
500	5.096	35.024	27.683	46.2	.521	1479.7	503.9
576	4.900	35.020	27.703	45.0	.556	1480.1	580.9

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AM
23		35.383	5.52					
55		35.868	4.79					
112		35.594	4.56					
206		35.418	4.13					
455		35.083	5.05					

SIGMA-T

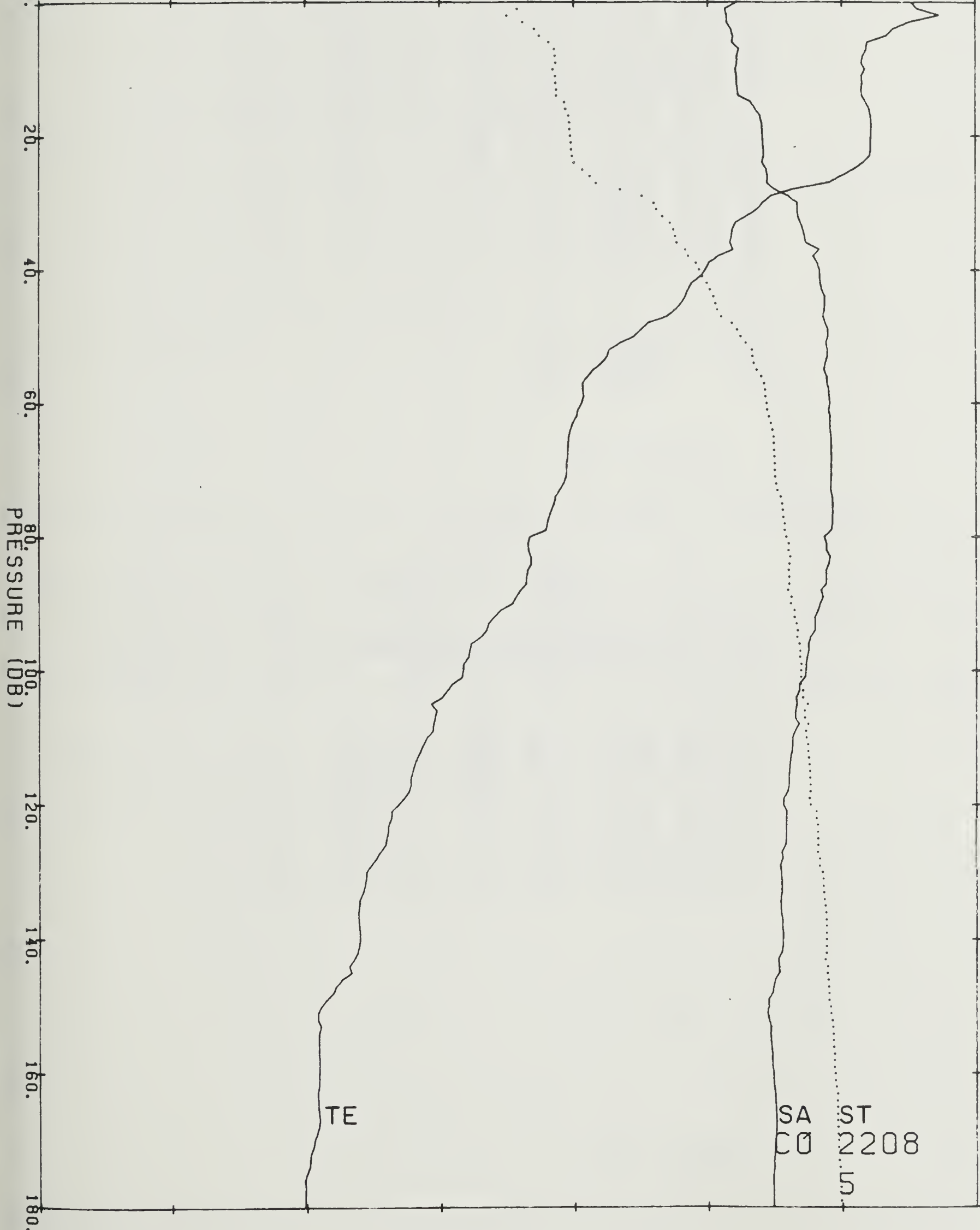
21. 22. 23. 24. 25. 26. 27. 28.

SALINITY (PPT)

30. 31. 32. 33. 34. 35. 36. 37.

TEMPERATURE (DEG C)

10. 12. 14. 16. 18. 20. 22.



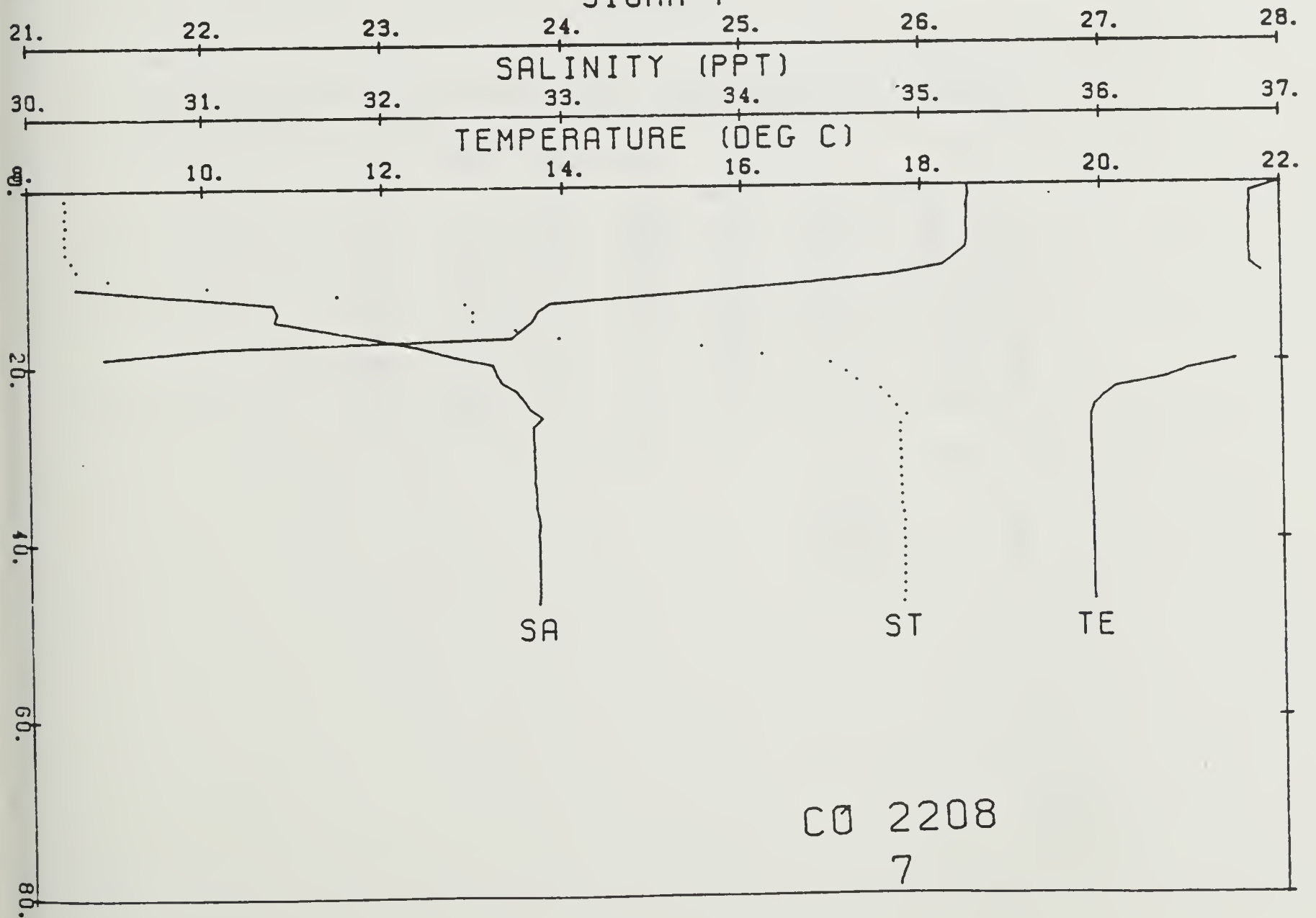
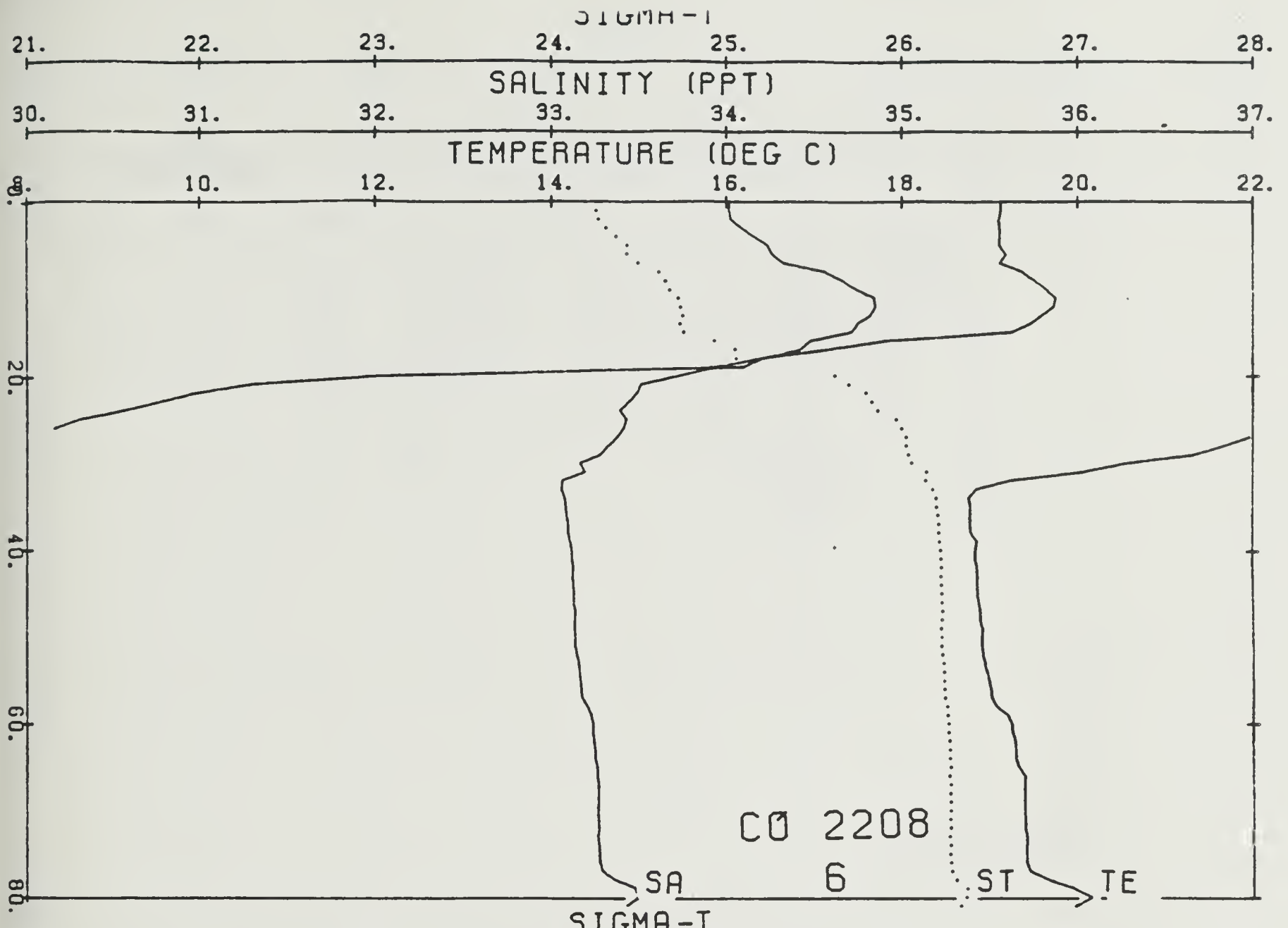
SHIP CO CRUISE 22-08 STATION 6 POSITION 39 6.31 N 72 58.53 W
 LOCAL TIME 2022 DATE 79/ 6/14 WIND = DIR = DEPTH= 80M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	19.127	34.015	24.237	367.4	.000	1518.5	.0
5	19.109	34.237	24.412	351.0	.018	1518.8	5.0
10	19.638	34.740	24.659	327.5	.035	1521.0	10.0
15	19.249	34.714	24.740	320.0	.051	1520.0	14.9
20	11.978	33.726	25.604	237.7	.065	1496.1	19.9
25	8.607	33.427	25.948	205.1	.076	1483.6	24.9
30	6.532	33.163	26.034	196.8	.086	1475.3	29.9
35	4.780	33.083	26.180	182.9	.095	1468.1	34.9
40	4.834	33.114	26.199	181.2	.105	1468.5	39.9
45	4.866	33.127	26.205	180.6	.114	1468.7	44.9
50	4.916	33.135	26.206	180.5	.123	1469.0	49.9
55	5.000	33.166	26.222	179.2	.132	1469.5	54.9
60	5.255	33.234	26.246	176.9	.140	1470.7	59.9
65	5.335	33.259	26.257	175.9	.149	1471.1	64.9
70	5.397	33.265	26.254	176.2	.158	1471.5	69.9
75	5.415	33.272	26.258	176.0	.167	1471.6	74.9
80	5.972	33.425	26.312	171.0	.177	1474.2	80.9
80	5.972	33.425	26.312	171.0	.177	1474.2	80.9

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AM
6	19.080	34.076	5.68					
22		34.599	5.93					
31		33.322	7.56					
38		33.114	8.37					

SHIP CO CRUISE 22-08 STATION 7 POSITION 39 23.75 N 73 33.54 W
 LOCAL TIME 2357 DATE 79/ 6/14 WIND = DIR = DEPTH= 47M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	18.529	29.986	21.310	647.3	.000	1512.1	.0
5	18.516	29.822	21.188	659.1	.033	1511.9	5.0
10	17.679	29.890	21.440	635.1	.065	1509.6	10.0
15	13.653	31.396	23.474	440.5	.091	1498.8	14.9
20	7.490	32.607	25.467	250.6	.109	1478.2	19.9
25	5.908	32.807	25.831	216.0	.120	1472.2	24.9
30	5.874	32.828	25.852	214.1	.131	1472.2	29.9
35	5.883	32.838	25.859	213.5	.142	1472.3	34.9
40	5.889	32.849	25.867	212.8	.153	1472.4	39.9
45	5.895	32.850	25.867	212.8	.163	1472.5	44.9
47	5.904	32.842	25.860	213.5	.167	1472.6	46.9



SHIP CO CRUISE 22-08 STATION 8 POSITION 39 32.00 N 73 56.00 W -
 LOCAL TIME 504 DATE 79/ 6/15 WIND = DIR = DEPTH= 25M

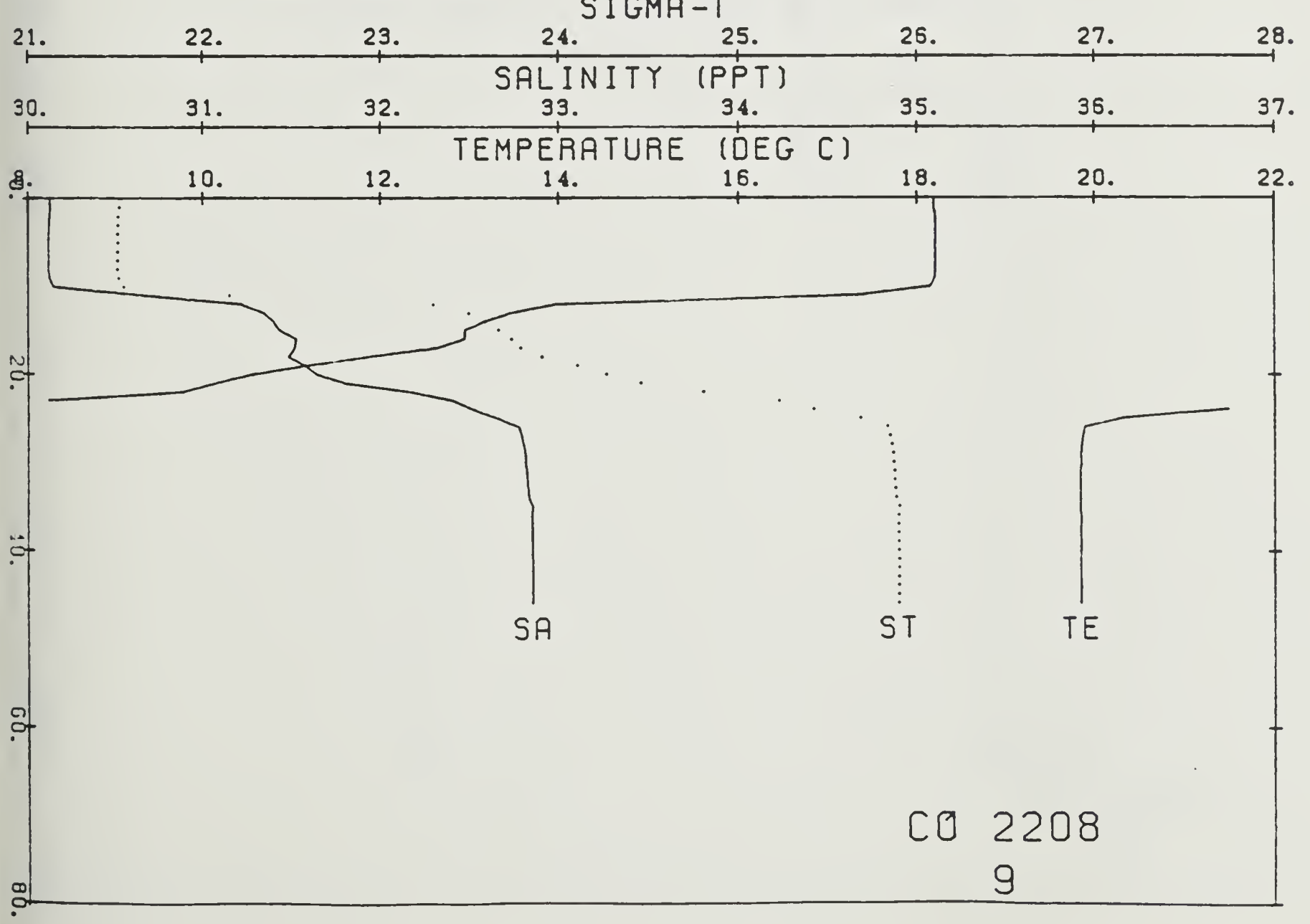
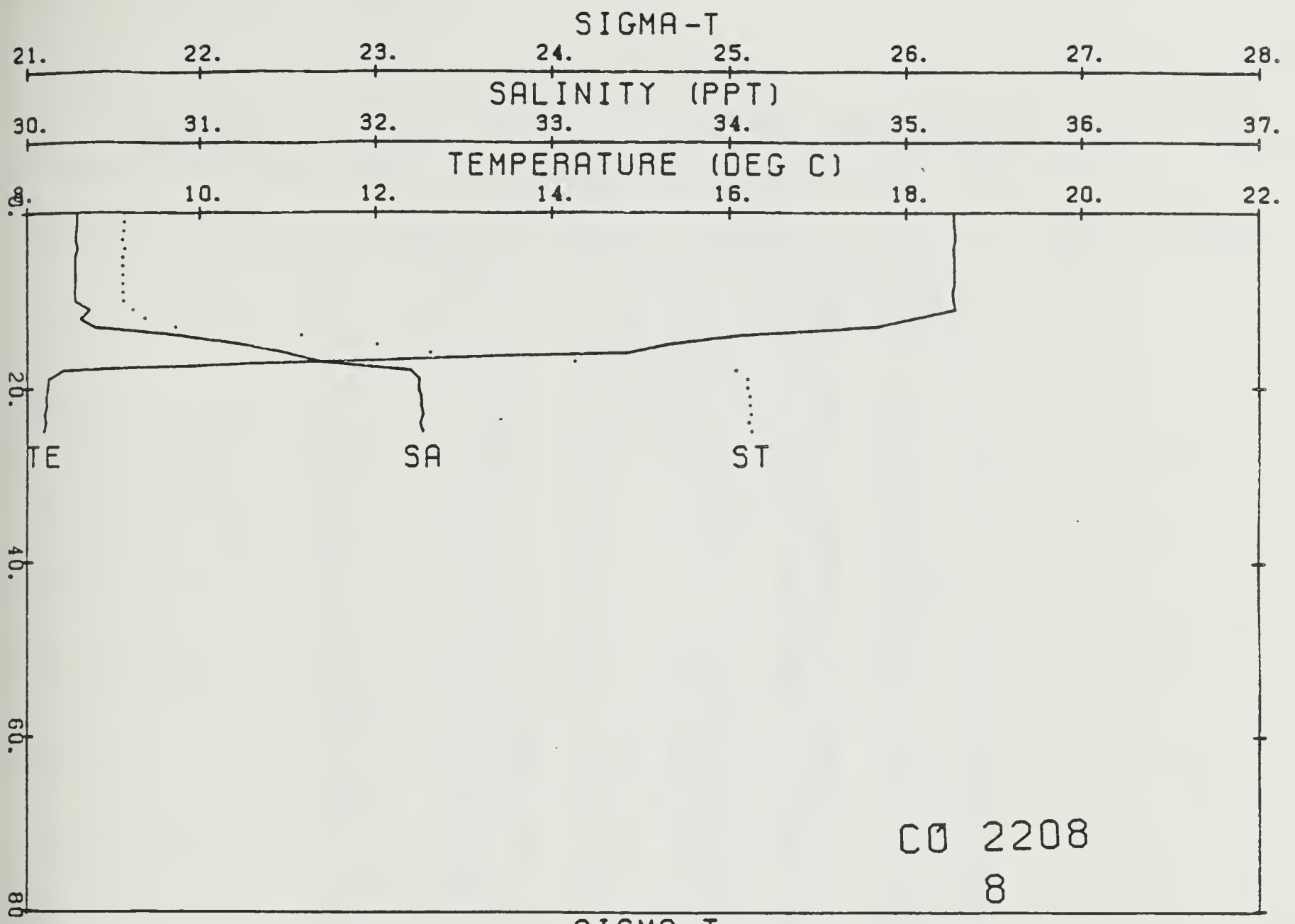
DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	18.549	30.298	21.543	624.9	.000	1512.5	.0
5	18.553	30.284	21.532	626.2	.031	1512.6	5.0
10	18.544	30.288	21.537	625.8	.063	1512.7	10.0
15	15.303	31.205	22.984	487.4	.090	1504.0	14.9
20	8.246	32.245	25.075	287.9	.109	1480.6	19.9
25	8.199	32.271	25.103	285.4	.124	1480.5	24.9
25	8.199	32.271	25.103	285.4	.124	1480.5	24.9

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AM
4		30.281						
12		30.280						
18		31.747						
23		32.267						

SHIP CO CRUISE 22-08 STATION 9 POSITION 39 23.50 N 73 33.50 W -
 LOCAL TIME 927 DATE 79/79/15 WIND = DIR = DEPTH= 46M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	18.191	30.135	21.505	628.5	.000	1511.3	.0
5	18.204	30.125	21.495	629.7	.032	1511.4	5.0
10	18.152	30.155	21.530	626.4	.063	1511.4	10.0
15	12.948	31.432	23.641	424.6	.089	1496.5	14.9
20	10.548	31.642	24.240	367.5	.109	1488.4	19.9
25	6.324	32.658	25.662	232.1	.124	1473.7	24.9
30	5.850	32.816	25.846	214.7	.135	1472.1	29.9
35	5.840	32.856	25.878	211.6	.145	1472.2	34.9
40	5.847	32.853	25.875	212.0	.156	1472.3	39.9
45	5.850	32.854	25.876	212.0	.167	1472.4	44.9
46	5.849	32.855	25.876	211.9	.169	1472.4	45.9

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AM
3		30.164						
9		30.202						
13		31.444						
45		32.909						



SHIP CO CRUISE 22-08 STATION 10 POSITION 39 1.70 N 72 46.67 W
 LOCAL TIME 1747 DATE 79/ 6/15 WIND = DIR = DEPTH= 162M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	19.812	34.363	24.326	358.9	.000	1520.9	.0
5	19.640	34.330	24.346	357.2	.018	1520.4	5.0
10	20.292	34.970	24.663	327.2	.035	1523.1	10.0
15	20.373	35.308	24.899	304.9	.051	1523.7	14.9
20	20.340	35.360	24.947	300.5	.066	1523.8	19.9
25	19.860	35.438	25.134	282.9	.080	1522.7	24.9
30	19.141	35.574	25.425	255.4	.094	1520.9	29.9
35	18.725	35.664	25.600	238.9	.106	1519.9	34.9
40	18.202	35.746	25.794	220.6	.118	1518.6	39.9
45	17.784	35.799	25.938	207.0	.128	1517.6	44.9
50	17.414	35.821	26.046	197.0	.138	1516.6	49.9
55	17.309	35.853	26.096	192.4	.148	1516.4	54.9
60	16.897	35.882	26.217	181.0	.157	1515.3	59.9
65	16.827	35.878	26.231	179.9	.166	1515.2	64.9
70	16.509	35.837	26.274	175.9	.175	1514.2	69.9
75	15.820	35.764	26.378	166.1	.184	1512.1	74.9
80	15.624	35.787	26.440	160.4	.194	1511.6	80.9
85	15.586	35.783	26.445	160.0	.202	1511.6	85.9
90	15.426	35.662	26.388	165.6	.210	1511.0	90.9
95	14.916	35.627	26.475	157.4	.218	1509.5	95.9
100	13.410	35.353	26.584	147.0	.226	1504.3	100.9
105	13.330	35.325	26.578	147.6	.233	1504.1	105.9
110	13.177	35.316	26.603	145.4	.240	1503.7	110.9
115	13.143	35.319	26.612	144.7	.248	1503.6	115.9
120	13.012	35.326	26.644	141.8	.255	1503.3	120.9
125	12.817	35.301	26.664	140.0	.262	1502.7	125.9
130	12.477	35.371	26.785	128.5	.268	1501.7	130.9
135	12.450	35.395	26.809	126.4	.275	1501.7	135.9
140	12.415	35.402	26.821	125.4	.281	1501.7	140.9
145	12.416	35.401	26.820	125.6	.287	1501.8	145.9
150	12.417	35.403	26.822	125.6	.294	1501.9	150.9
155	12.401	35.401	26.823	125.6	.300	1501.9	155.9
160	12.342	35.406	26.839	124.2	.306	1501.8	160.9
162	12.195	35.336	26.813	126.6	.309	1501.2	162.9

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AM
0	19.400	33.948						
34		35.695						
52		35.861						
105		35.307						
159		35.765						

SIGMA-T

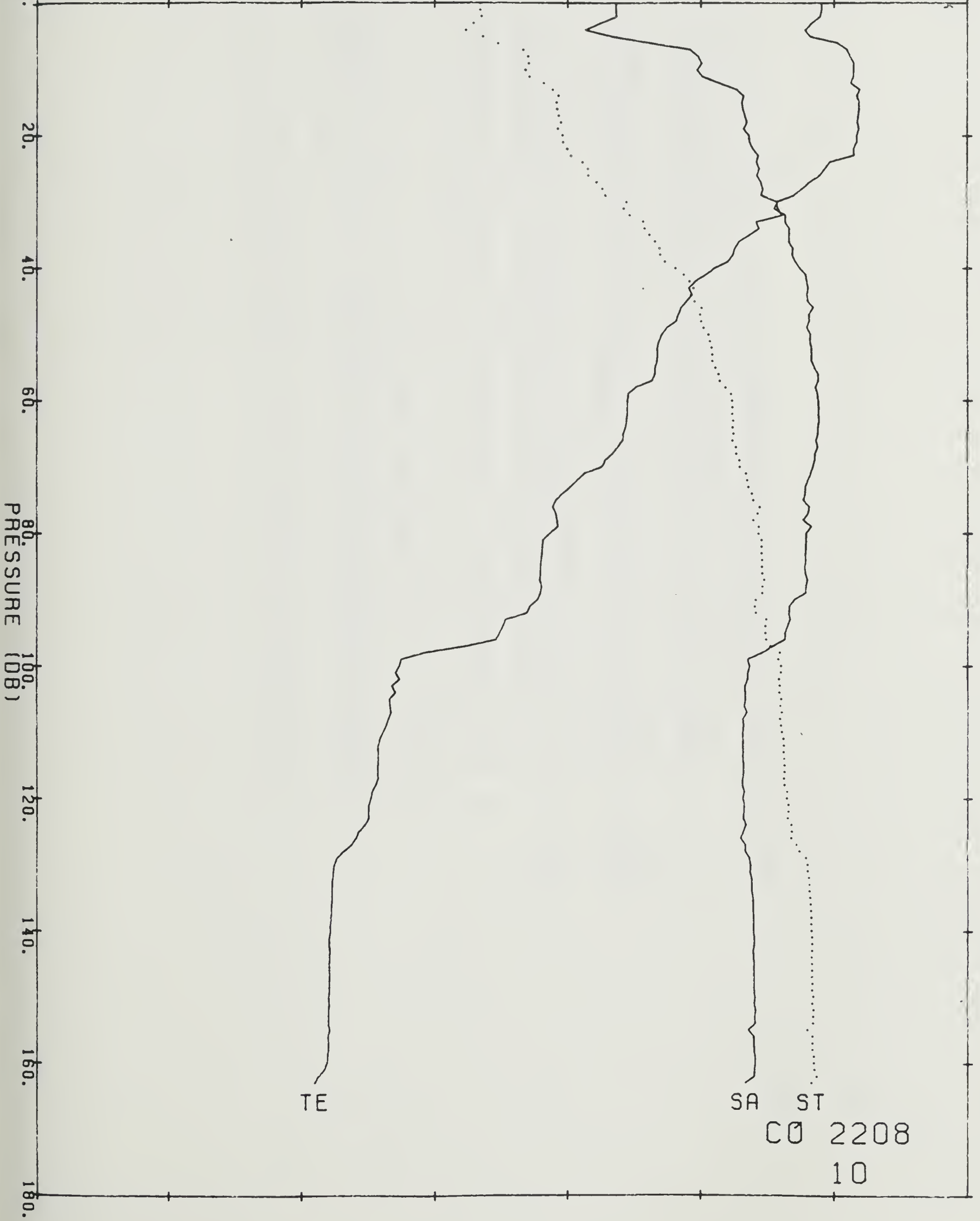
21. 22. 23. 24. 25. 26. 27. 28.

SALINITY (PPT)

30. 31. 32. 33. 34. 35. 36. 37.

TEMPERATURE (DEG C)

8. 10. 12. 14. 16. 18. 20. 22.



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SHIP CO CRUISE 22-08 STATION 11 POSITION 39 1.22 N 72 46.82 W
 LOCAL TIME 2126 DATE 79/ 6/15 WIND = DIR = DEPTH= 363M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	19.701	34.326	24.327	358.9	.000	1520.5	.0
5	19.677	34.429	24.412	351.0	.018	1520.7	5.0
10	20.166	34.878	24.626	330.7	.035	1522.6	10.0
15	20.305	35.402	24.989	296.4	.050	1523.7	14.9
20	19.746	35.472	25.190	277.4	.065	1522.3	19.9
25	19.255	35.499	25.338	263.5	.078	1521.1	24.9
30	18.330	35.685	25.716	227.7	.090	1518.8	29.9
35	17.464	35.820	26.033	197.7	.101	1516.5	34.9
40	16.881	35.823	26.175	184.3	.111	1514.8	39.9
45	16.696	35.851	26.241	178.2	.120	1514.4	44.9
50	16.627	35.928	26.316	171.2	.128	1514.4	49.9
55	16.508	35.927	26.344	168.8	.137	1514.1	54.9
60	16.310	35.910	26.377	165.8	.145	1513.5	59.9
65	16.119	35.906	26.418	162.0	.153	1513.0	64.9
70	15.693	35.840	26.465	157.7	.161	1511.7	69.9
75	15.513	35.846	26.511	153.5	.169	1511.3	74.9
80	15.418	35.846	26.532	151.6	.178	1511.1	80.9
85	15.330	35.838	26.546	150.5	.186	1510.9	85.9
90	15.028	35.790	26.576	147.7	.193	1509.9	90.9
95	14.497	35.679	26.606	144.9	.201	1508.2	95.9
100	14.295	35.655	26.631	142.6	.208	1507.6	100.9
105	14.084	35.629	26.656	140.4	.215	1507.0	105.9
110	13.680	35.558	26.686	137.6	.222	1505.6	110.9
115	13.251	35.479	26.714	135.1	.229	1504.2	115.9
120	12.726	35.399	26.758	130.9	.235	1502.4	120.9
125	12.591	35.424	26.804	126.7	.242	1502.1	125.9
130	12.518	35.405	26.803	126.8	.248	1501.9	130.9
135	12.319	35.427	26.860	121.6	.254	1501.3	135.9
140	12.276	35.433	26.873	120.5	.260	1501.3	140.9
145	12.253	35.433	26.877	120.2	.266	1501.3	145.9
150	12.210	35.436	26.888	119.3	.272	1501.2	150.9
155	12.126	35.452	26.917	116.7	.278	1501.0	155.9
160	12.111	35.438	26.909	117.5	.284	1501.0	160.9
165	11.882	35.441	26.955	113.2	.290	1500.3	165.9
170	11.694	35.439	26.989	110.1	.295	1499.7	170.9
175	11.480	35.429	27.022	107.0	.301	1499.1	175.9
180	11.300	35.421	27.049	104.5	.306	1498.5	180.9
185	11.241	35.424	27.062	103.4	.311	1498.4	185.9
190	10.958	35.402	27.097	100.1	.316	1497.4	190.9
195	10.897	35.395	27.102	99.7	.321	1497.3	195.9
200	10.826	35.387	27.109	99.1	.326	1497.1	200.9
225	9.712	35.276	27.217	89.0	.351	1493.4	226.9
250	8.381	35.162	27.343	77.0	.372	1488.7	251.9
275	7.903	35.122	27.385	73.3	.390	1487.2	276.9
300	7.385	35.097	27.441	68.1	.408	1485.6	301.9
325	6.959	35.075	27.484	64.2	.425	1484.3	326.9
350	6.548	35.063	27.531	59.9	.441	1483.1	352.9
363	6.152	35.047	27.570	56.0	.448	1481.7	365.9

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AM
144	12.230	35.423	4.74					
210		35.338	3.50					
257		35.142	3.50					
361	6.220	35.028	4.44					

SIGMA-T

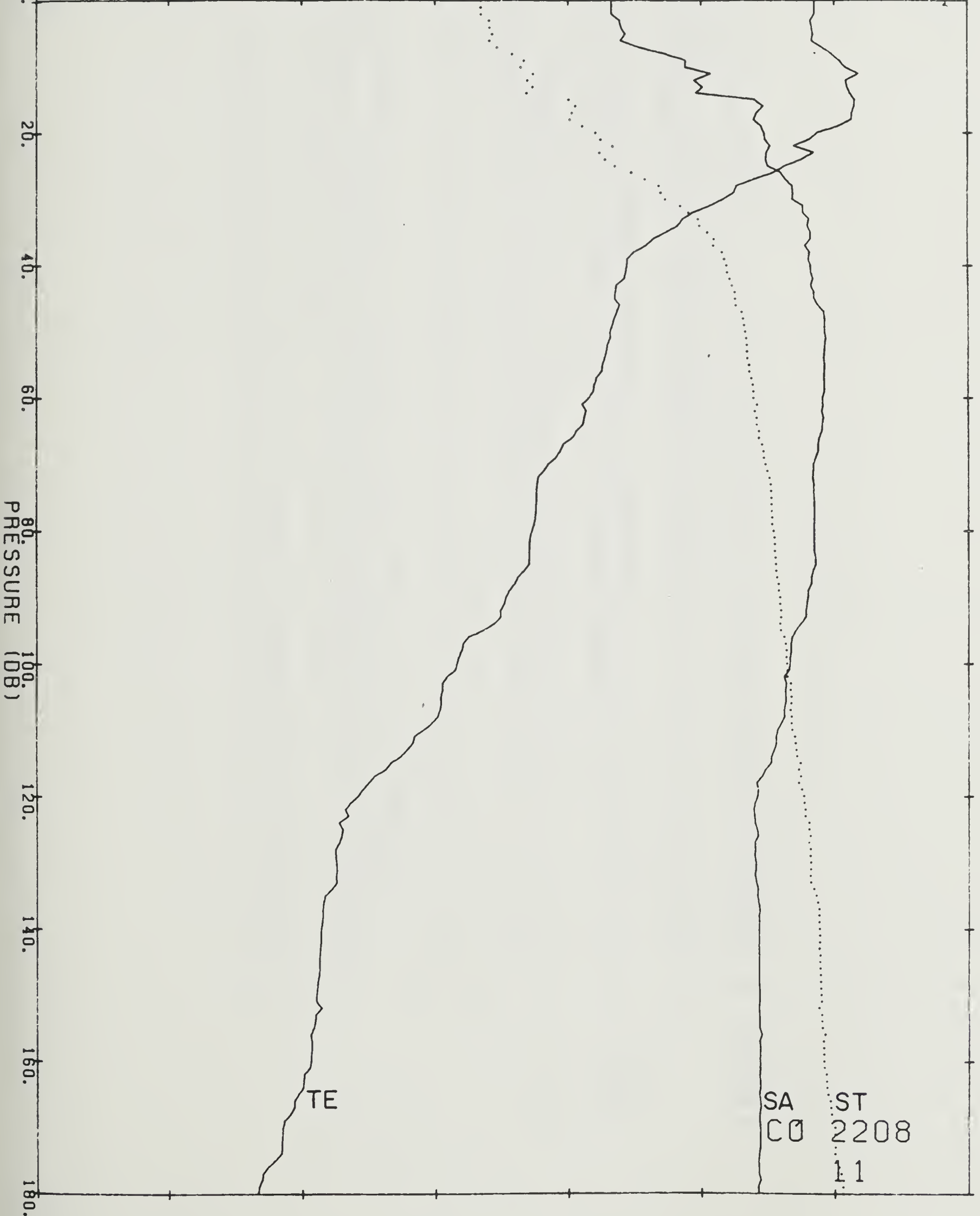
21. 22. 23. 24. 25. 26. 27. 28.

SALINITY (PPT)

30. 31. 32. 33. 34. 35. 36. 37.

TEMPERATURE (DEG C)

10. 12. 14. 16. 18. 20. 22.



SHIP CO CRUISE 22-08 STATION 12 POSITION 38 59.43 N 72 35.94 W
 LOCAL TIME 45 DATE 79/ 6/16 WIND = DIR = DEPTH=1111M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS	
0	21.641	35.500	24.700	323.4	.000	1527.1	.0	
5	21.643	35.491	24.692	324.3	.016	1527.2	5.0	
10	21.692	35.458	24.654	328.1	.033	1527.3	10.0	
15	20.416	35.355	24.923	302.6	.048	1523.9	14.9	
20	20.252	35.382	24.988	296.7	.063	1523.6	19.9	
25	18.999	35.574	25.461	251.7	.077	1520.4	24.9	
30	17.880	35.673	25.818	217.9	.088	1517.4	29.9	
35	17.132	35.660	25.990	201.7	.099	1515.3	34.9	
40	16.983	35.980	26.272	175.2	.108	1515.3	39.9	
45	16.888	36.044	26.344	168.5	.117	1515.2	44.9	
50	16.637	36.029	26.392	164.1	.125	1514.5	49.9	
55	16.135	36.009	26.494	154.5	.133	1513.1	54.9	
60	15.821	36.003	26.561	148.3	.141	1512.2	59.9	
65	15.778	36.054	26.611	143.7	.148	1512.2	64.9	
70	15.611	36.016	26.619	143.1	.155	1511.7	69.9	
75	15.347	35.981	26.652	140.1	.164	1510.9	75.9	
80	15.044	35.935	26.684	137.2	.171	1510.0	80.9	
85	15.054	35.988	26.723	133.7	.177	1510.2	85.9	
90	14.832	35.945	26.739	132.3	.184	1509.5	90.9	
95	14.617	35.912	26.760	130.4	.191	1508.9	95.9	
100	14.450	35.877	26.769	129.6	.197	1508.4	100.9	
105	14.356	35.854	26.772	129.5	.204	1508.1	105.9	
110	14.091	35.803	26.789	127.9	.210	1507.3	110.9	
115	13.735	35.728	26.806	126.4	.216	1506.1	115.9	
120	13.382	35.677	26.840	123.3	.223	1505.0	120.9	
125	13.205	35.651	26.856	121.8	.229	1504.4	125.9	
130	13.101	35.625	26.858	121.8	.235	1504.1	130.9	
135	12.940	35.615	26.882	119.6	.241	1503.6	135.9	
140	12.803	35.583	26.885	119.4	.247	1503.2	140.9	
145	12.444	35.511	26.900	118.0	.253	1502.0	145.9	
150	12.475	35.528	26.907	117.5	.259	1502.2	150.9	
155	12.358	35.542	26.941	114.4	.265	1501.9	155.9	
160	12.321	35.532	26.941	114.6	.270	1501.9	160.9	
165	12.205	35.504	26.942	114.6	.276	1501.5	165.9	
170	12.100	35.494	26.954	113.5	.282	1501.2	170.9	
175	12.060	35.499	26.966	112.5	.287	1501.2	175.9	
180	12.131	35.528	26.975	111.8	.293	1501.5	180.9	
185	12.051	35.521	26.985	111.0	.299	1501.3	185.9	
190	11.971	35.518	26.998	109.8	.304	1501.1	190.9	
195	11.859	35.506	27.010	108.8	.310	1500.8	195.9	
200	11.775	35.496	27.018	108.1	.315	1500.6	200.9	
225	11.361	35.461	27.069	103.8	.342	1499.5	226.9	
250	10.777	35.392	27.122	99.1	.368	1497.8	251.9	
275	9.948	35.293	27.190	92.8	.392	1495.1	276.9	
300	9.168	35.212	27.257	86.5	.414	1492.5	301.9	
325	8.634	35.164	27.305	82.1	.435	1490.9	326.9	
350	8.131	35.131	27.357	77.4	.456	1489.3	352.9	
375	7.427	35.090	27.429	70.5	.475	1487.0	377.9	
400	6.851	35.079	27.502	63.6	.491	1485.1	402.9	
425	6.402	35.066	27.553	58.8	.507	1483.8	427.9	
450	6.079	35.051	27.583	56.0	.521	1482.9	452.9	
475	5.805	35.041	27.610	53.5	.535	1482.2	478.9	
500	5.637	35.044	27.634	51.4	.548	1481.9	503.9	
600	5.137	35.043	27.693	46.5	.598	1481.5	604.9	
700	4.780	35.028	27.723	44.3	.644	1481.7	705.9	
800	4.551	35.021	27.743	43.1	.688	1482.4	806.9	
900	4.391	35.011	27.753	42.9	.731	1483.4	907.9	
1000	4.235	35.003	27.764	42.6	.774	1484.4	1008.9	
1100	4.159	35.001	27.770	42.8	.818	1485.7	1110.9	
1111	4.141	35.005	27.775	42.4	.823	1485.9	1121.9	
DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AM
8		35.430						
48			6.69					
144		35.596						
247		35.401	5.87					
512		35.027						
996		35.005	6.56					
1099			4.62					

SIGMA-T

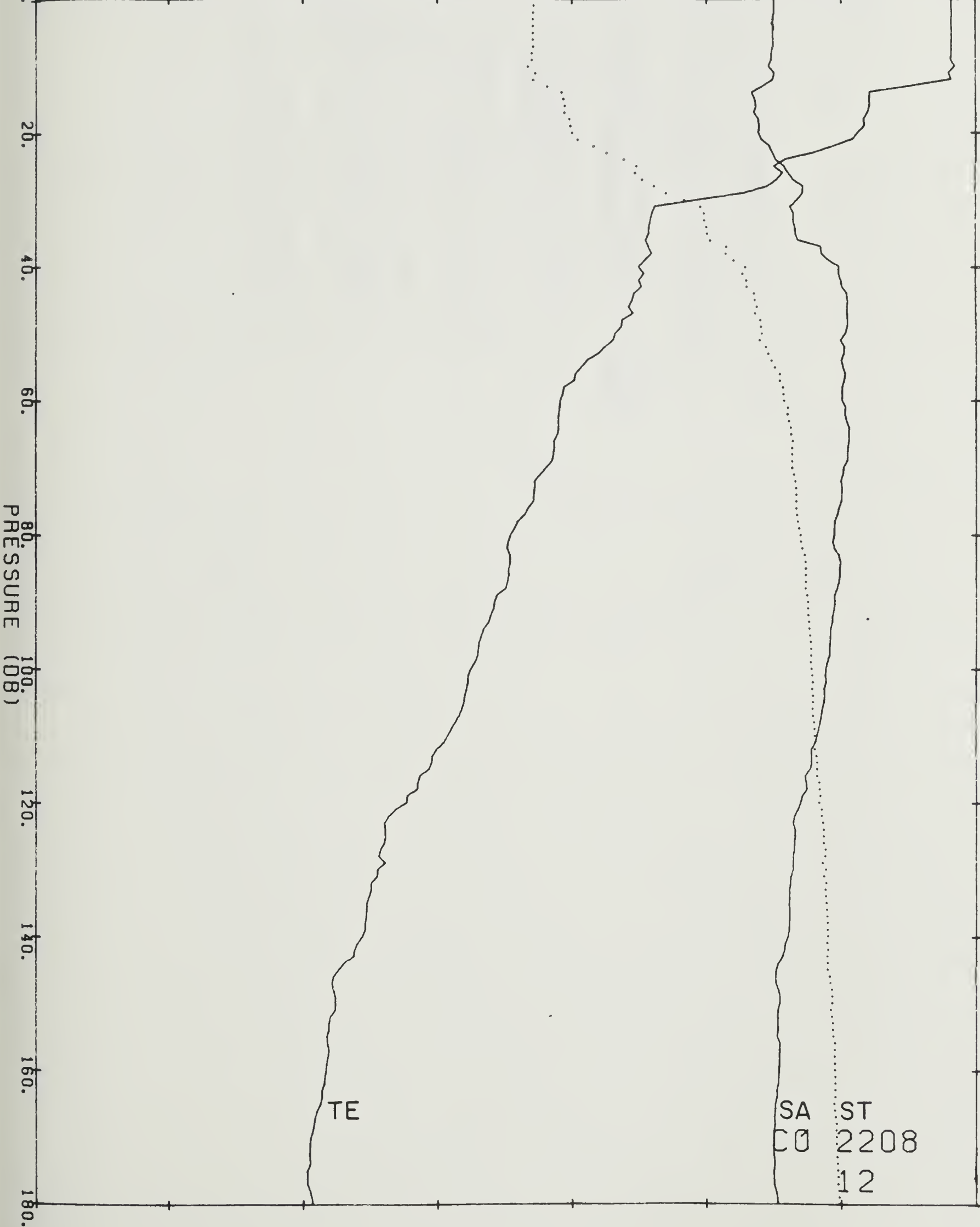
21. 22. 23. 24. 25. 26. 27. 28.

SALINITY (PPT)

30. 31. 32. 33. 34. 35. 36. 37.

TEMPERATURE (DEG C)

8. 10. 12. 14. 16. 18. 20. 22.



SHIP CO CRUISE 22-08 STATION 13 POSITION 38 34.50 N 73 26.40 W
 LOCAL TIME 1440 DATE 79/ 6/16 WIND = DIR = DEPTH= 83M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	18.146	32.345	23.205	465.9	.000	1513.8	.0
5	18.139	32.450	23.287	458.2	.023	1513.9	5.0
10	19.324	34.081	24.237	367.8	.044	1519.3	10.0
15	19.681	34.679	24.602	333.2	.061	1521.1	14.8
20	16.657	34.258	25.026	292.9	.077	1511.9	19.9
25	7.141	33.024	25.844	214.9	.089	1477.4	24.9
30	5.899	33.093	26.058	194.5	.100	1472.6	29.9
35	5.261	33.053	26.102	190.3	.109	1470.1	34.9
40	5.249	33.124	26.160	184.9	.119	1470.2	39.9
45	5.111	33.125	26.177	183.4	.128	1469.7	44.9
50	5.197	33.168	26.201	181.1	.137	1470.2	49.9
55	5.222	33.176	26.204	180.8	.146	1470.4	54.9
60	5.249	33.193	26.215	179.9	.155	1470.6	59.9
65	5.451	33.253	26.239	177.7	.164	1471.6	64.9
70	6.437	33.540	26.344	168.0	.173	1476.0	69.9
75	8.740	34.429	26.712	133.4	.180	1486.2	74.9
80	10.676	34.983	26.821	123.6	.188	1494.1	80.9
83	10.669	34.983	26.822	123.5	.191	1494.1	83.9

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AM
0	18.140	32.245						
42		33.123	9.00					
57		33.200						
83		34.970						

SIGMA-T

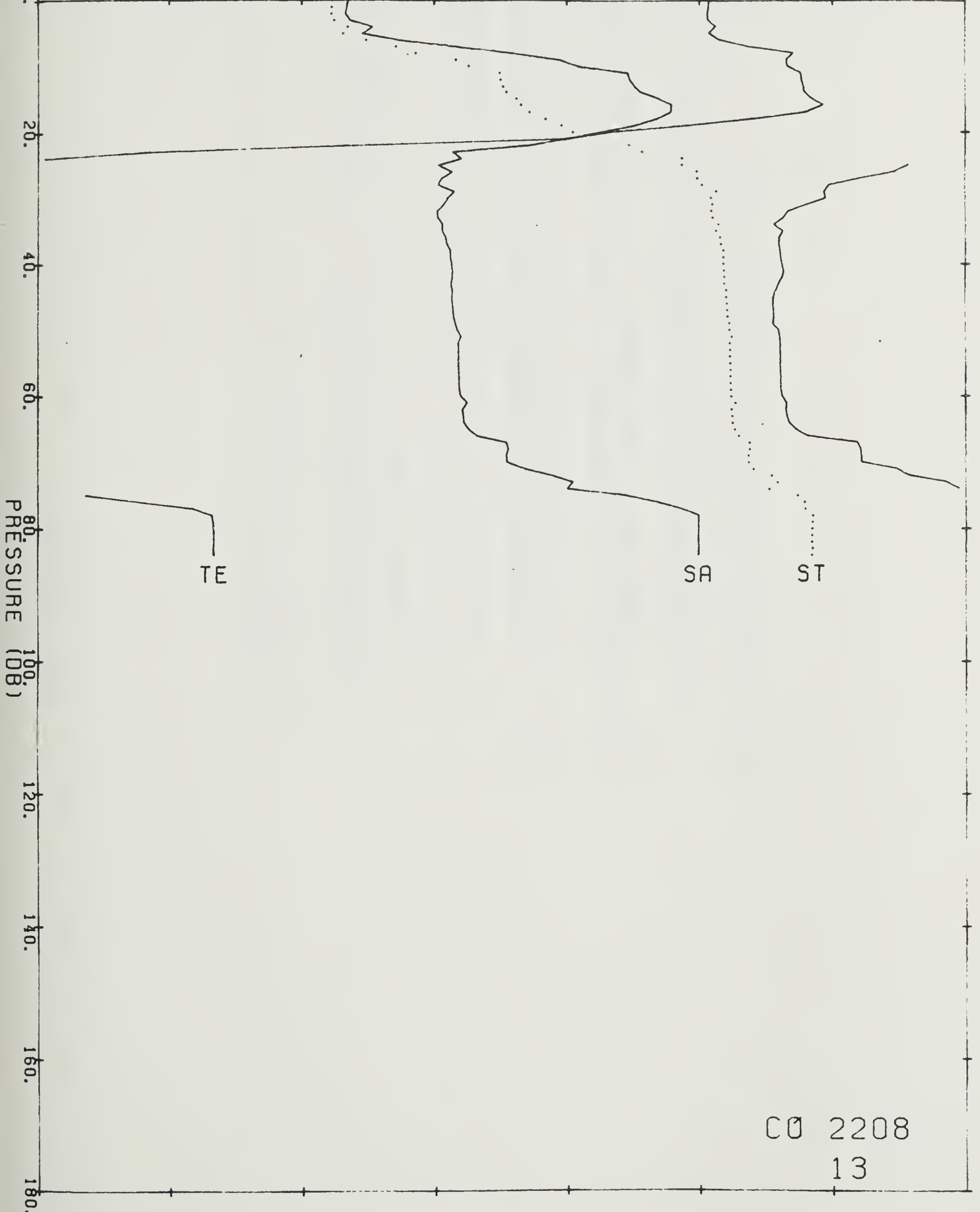
21. 22. 23. 24. 25. 26. 27. 28.

SALINITY (PPT)

30. 31. 32. 33. 34. 35. 36. 37.

TEMPERATURE (DEG C)

8. 10. 12. 14. 16. 18. 20. 22.



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13

SHIP CO CRUISE 22-08 STATION 14 POSITION 38 29.38 N 73 18.74 W
 LOCAL TIME 1802 DATE 79/ 6/16 WIND = DIR = DEPTH= 215M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	20.866	35.222	24.701	323.3	.000	1524.7	.0
5	20.927	35.247	24.703	323.2	.016	1525.0	5.0
10	20.785	35.263	24.754	318.6	.032	1524.7	10.0
15	20.585	35.284	24.824	312.1	.048	1524.3	14.9
20	20.574	35.344	24.872	307.6	.063	1524.4	19.9
25	19.392	35.260	25.120	284.2	.078	1521.2	24.9
30	18.037	35.418	25.584	240.2	.091	1517.6	29.9
35	17.469	35.500	25.786	221.1	.103	1516.1	34.9
40	16.537	35.438	25.961	204.6	.113	1513.3	39.9
45	14.770	35.085	26.089	192.6	.123	1507.5	44.9
50	14.020	35.256	26.381	164.9	.132	1505.4	49.9
55	12.533	34.828	26.353	167.6	.140	1500.0	54.9
60	10.989	34.698	26.543	149.5	.148	1494.5	59.9
65	11.313	34.819	26.578	146.3	.156	1495.9	64.9
70	11.306	34.824	26.583	146.0	.163	1496.0	69.9
75	9.973	34.593	26.639	140.6	.170	1491.0	74.9
80	9.930	34.643	26.685	136.3	.179	1491.0	80.9
85	10.206	34.781	26.746	130.7	.185	1492.3	85.9
90	10.525	34.932	26.808	125.0	.192	1493.7	90.9
95	10.590	34.955	26.815	124.5	.198	1494.0	95.9
100	10.870	35.070	26.854	120.9	.204	1495.2	100.9
105	11.056	35.131	26.868	119.8	.210	1496.1	105.9
110	11.531	35.310	26.920	115.1	.216	1498.0	110.9
115	12.131	35.465	26.926	114.8	.222	1500.4	115.9
120	12.099	35.465	26.932	114.3	.227	1500.4	120.9
125	12.082	35.458	26.930	114.6	.233	1500.4	125.9
130	12.079	35.459	26.931	114.6	.239	1500.5	130.9
135	12.081	35.459	26.931	114.8	.245	1500.5	135.9
140	12.093	35.427	26.903	117.5	.250	1500.6	140.9
145	12.137	35.408	26.880	119.8	.256	1500.8	145.9
150	11.949	35.448	26.948	113.6	.262	1500.3	150.9
155	11.908	35.444	26.952	113.2	.268	1500.2	155.9
160	11.833	35.443	26.966	112.0	.273	1500.1	160.9
165	11.787	35.445	26.976	111.2	.279	1500.0	165.9
170	11.671	35.448	27.000	109.0	.285	1499.7	170.9
175	11.546	35.451	27.026	106.6	.290	1499.3	175.9
180	11.463	35.420	27.018	107.5	.295	1499.1	180.9
185	11.338	35.441	27.057	103.8	.301	1498.8	185.9
190	11.280	35.440	27.067	103.0	.306	1498.6	190.9
195	11.213	35.436	27.077	102.2	.311	1498.5	195.9
200	11.175	35.432	27.080	102.0	.316	1498.4	200.9
215	10.782	35.385	27.115	98.9	.331	1497.2	215.9

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AM
1		35.238	5.41					
22		35.314	5.54					
64		34.420	5.51					
215		35.361	3.53					

SIGMA-T

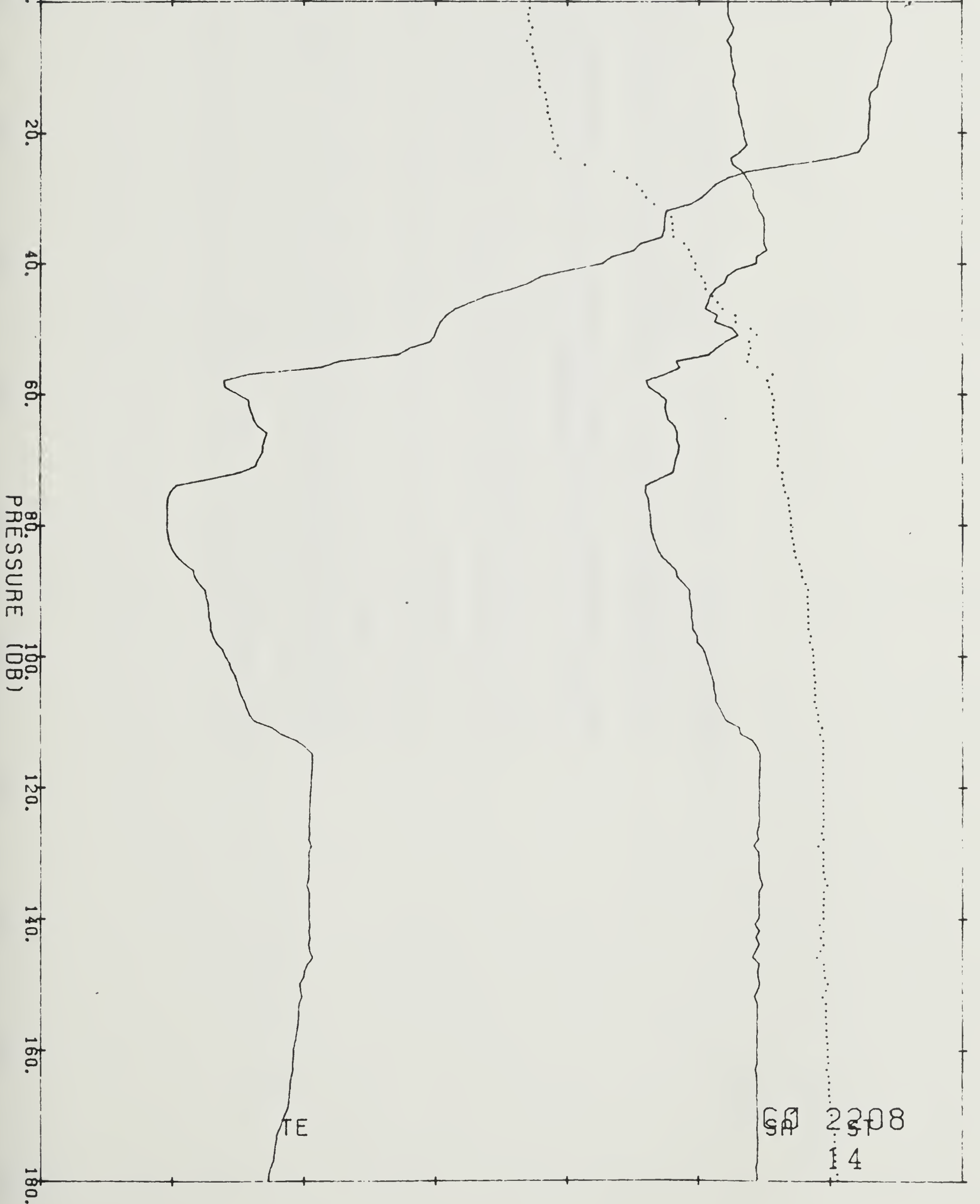
21. 22. 23. 24. 25. 26. 27. 28.

SALINITY (PPT)

30. 31. 32. 33. 34. 35. 36. 37.

TEMPERATURE (DEG C)

8. 10. 12. 14. 16. 18. 20. 22.



SHIP CO CRUISE 22-08 STATION 15 POSITION 38 28.70 N 73 18.65 W
 LOCAL TIME 2034 DATE 79/ 6/16 WIND = DIR = DEPTH= 339M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	20.830	35.794	25.146	280.9	.000	1525.3	.0
5	20.920	35.259	24.714	322.2	.015	1525.0	5.0
10	20.784	35.236	24.733	320.5	.031	1524.7	10.0
15	20.588	35.263	24.807	313.7	.047	1524.3	14.9
20	20.561	35.339	24.872	307.7	.062	1524.4	19.9
25	18.853	35.309	25.296	267.5	.077	1519.7	24.9
30	17.893	35.435	25.633	235.6	.089	1517.2	29.9
35	16.655	35.498	25.979	202.8	.100	1513.7	34.9
40	15.152	35.480	26.309	171.5	.110	1509.1	39.9
45	14.174	35.258	26.350	167.7	.118	1505.8	44.9
50	11.467	34.751	26.496	153.7	.126	1496.1	49.9
55	10.097	34.480	26.530	150.5	.134	1491.0	54.9
60	10.261	34.561	26.565	147.3	.141	1491.7	59.9
65	10.054	34.521	26.569	147.0	.148	1491.0	64.9
70	9.946	34.617	26.663	138.3	.156	1490.8	69.9
75	9.977	34.659	26.690	135.8	.162	1491.1	74.9
80	10.325	34.811	26.749	130.4	.170	1492.6	80.9
85	10.870	34.995	26.796	126.1	.177	1494.9	85.9
90	11.325	35.130	26.818	124.2	.183	1496.8	90.9
95	11.499	35.190	26.832	123.0	.189	1497.5	95.9
100	11.526	35.198	26.833	123.0	.195	1497.7	100.9
105	11.555	35.213	26.840	122.6	.202	1497.9	105.9
110	11.802	35.298	26.859	120.9	.208	1499.0	110.9
115	11.730	35.339	26.904	116.7	.214	1498.9	115.9
120	11.796	35.366	26.913	116.0	.219	1499.2	120.9
125	11.741	35.365	26.923	115.2	.225	1499.1	125.9
130	11.741	35.384	26.937	114.0	.231	1499.2	130.9
135	11.939	35.447	26.949	113.1	.237	1500.0	135.9
140	11.966	35.454	26.949	113.2	.242	1500.2	140.9
145	11.979	35.462	26.953	113.0	.248	1500.4	145.9
150	11.928	35.454	26.956	112.7	.254	1500.3	150.9
155	11.849	35.441	26.961	112.4	.259	1500.0	155.9
160	11.792	35.436	26.968	111.8	.265	1499.9	160.9
165	11.659	35.437	26.994	109.4	.270	1499.5	165.9
170	11.484	35.441	27.030	106.1	.276	1499.0	170.9
175	11.249	35.433	27.068	102.6	.281	1498.3	175.9
180	11.146	35.423	27.079	101.6	.286	1498.0	180.9
185	11.084	35.421	27.089	100.8	.291	1497.8	185.9
190	11.058	35.420	27.093	100.5	.296	1497.8	190.9
195	11.041	35.418	27.094	100.5	.301	1497.8	195.9
200	11.020	35.415	27.096	100.5	.306	1497.8	200.9
225	10.641	35.366	27.126	98.1	.332	1496.9	226.9
250	9.967	35.302	27.194	91.9	.356	1494.8	251.9
275	9.612	35.259	27.221	89.7	.378	1493.8	276.9
300	8.931	35.191	27.279	84.3	.400	1491.6	301.9
325	8.045	35.132	27.371	75.5	.420	1488.6	326.9
339	7.637	35.108	27.413	71.6	.431	1487.2	341.9

SIGMA-T

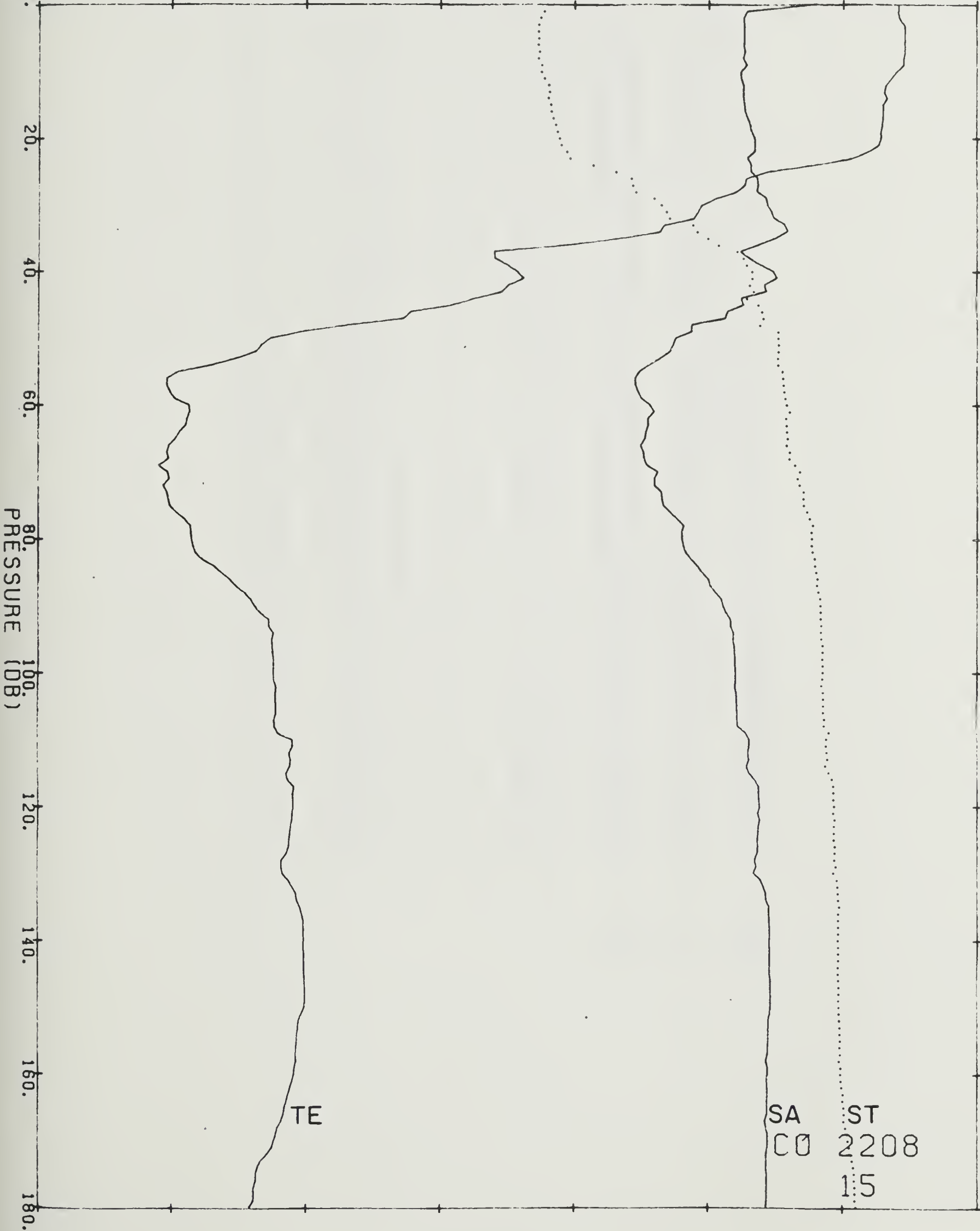
21. 22. 23. 24. 25. 26. 27. 28.

SALINITY (PPT)

30. 31. 32. 33. 34. 35. 36. 37.

TEMPERATURE (DEG C)

8. 10. 12. 14. 16. 18. 20. 22.



SHIP CO CRUISE 22-08 STATION 16 POSITION 38 28.10 N 73 17.70 W
 LOCAL TIME 55 DATE 79/ 6/17 WIND = DIR = DEPTH= 484M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	18.740	35.190	25.234	272.5	.000	1518.8	.0
5	20.872	35.174	24.662	327.1	.015	1524.8	5.0
10	20.754	35.209	24.721	321.7	.031	1524.6	10.0
15	20.484	35.305	24.867	308.0	.047	1524.0	14.9
20	19.385	35.323	25.170	279.3	.061	1521.1	19.9
25	17.272	35.508	25.840	215.7	.074	1515.4	24.9
30	16.554	35.464	25.977	202.8	.084	1513.3	29.9
35	14.600	35.189	26.206	181.1	.094	1506.9	34.9
40	12.968	34.490	26.005	200.2	.103	1500.8	39.9
45	12.904	34.630	26.126	188.9	.113	1500.8	44.9
50	12.910	34.996	26.409	162.2	.122	1501.4	49.9
55	12.540	34.990	26.477	155.8	.130	1500.2	54.9
60	12.012	35.033	26.613	143.0	.137	1498.5	59.9
65	12.117	35.312	26.810	124.5	.144	1499.3	64.9
70	12.373	35.320	26.766	128.8	.150	1500.3	69.9
75	12.938	35.518	26.808	125.1	.158	1502.5	75.9
80	12.807	35.520	26.835	122.6	.164	1502.2	80.9
85	12.938	35.579	26.855	120.9	.170	1502.8	85.9
90	12.826	35.574	26.873	119.2	.176	1502.5	90.9
95	12.829	35.588	26.884	118.4	.182	1502.6	95.9
100	12.765	35.582	26.892	117.7	.188	1502.5	100.9
105	12.726	35.578	26.897	117.4	.194	1502.4	105.9
110	12.604	35.542	26.893	117.9	.200	1502.0	110.9
115	12.545	35.559	26.918	115.6	.206	1501.9	115.9
120	12.483	35.554	26.926	114.9	.211	1501.8	120.9
125	12.406	35.564	26.949	112.9	.217	1501.6	125.9
130	12.164	35.484	26.934	114.4	.223	1500.8	130.9
135	12.026	35.488	26.964	111.7	.228	1500.4	135.9
140	11.989	35.482	26.966	111.5	.234	1500.3	140.9
145	11.853	35.466	26.980	110.4	.240	1499.9	145.9
150	11.798	35.460	26.986	109.9	.245	1499.8	150.9
155	11.739	35.443	26.984	110.2	.251	1499.7	155.9
160	11.657	35.456	27.009	107.9	.256	1499.5	160.9
165	11.586	35.456	27.023	106.7	.261	1499.3	165.9
170	11.481	35.454	27.041	105.1	.267	1499.0	170.9
175	11.279	35.441	27.068	102.5	.272	1498.4	175.9
180	11.176	35.408	27.062	103.3	.277	1498.1	180.9
185	11.106	35.424	27.087	101.0	.282	1497.9	185.9
190	10.952	35.410	27.104	99.4	.287	1497.4	190.9
195	10.920	35.410	27.110	99.0	.292	1497.4	195.9
200	10.813	35.396	27.118	98.2	.297	1497.1	200.9
225	10.373	35.342	27.155	95.2	.322	1495.9	226.9
250	9.801	35.274	27.200	91.2	.345	1494.1	251.9
275	9.240	35.225	27.256	86.2	.368	1492.4	276.9
300	8.442	35.157	27.330	79.2	.388	1489.7	301.9
325	7.748	35.112	27.400	72.6	.407	1487.4	326.9
350	7.136	35.087	27.469	66.2	.425	1485.5	352.9
375	6.467	35.052	27.533	60.0	.441	1483.2	377.9
400	5.871	35.030	27.593	54.1	.455	1481.2	402.9
425	5.658	35.030	27.620	51.7	.469	1480.7	427.9
450	5.517	35.027	27.635	50.5	.482	1480.6	453.9
475	5.330	35.025	27.656	48.7	.494	1480.2	478.9
484	5.219	35.018	27.664	47.9	.499	1479.9	487.9

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AM
93		35.565						
379	6.350	35.032						
474		35.007						

SIGMA-T

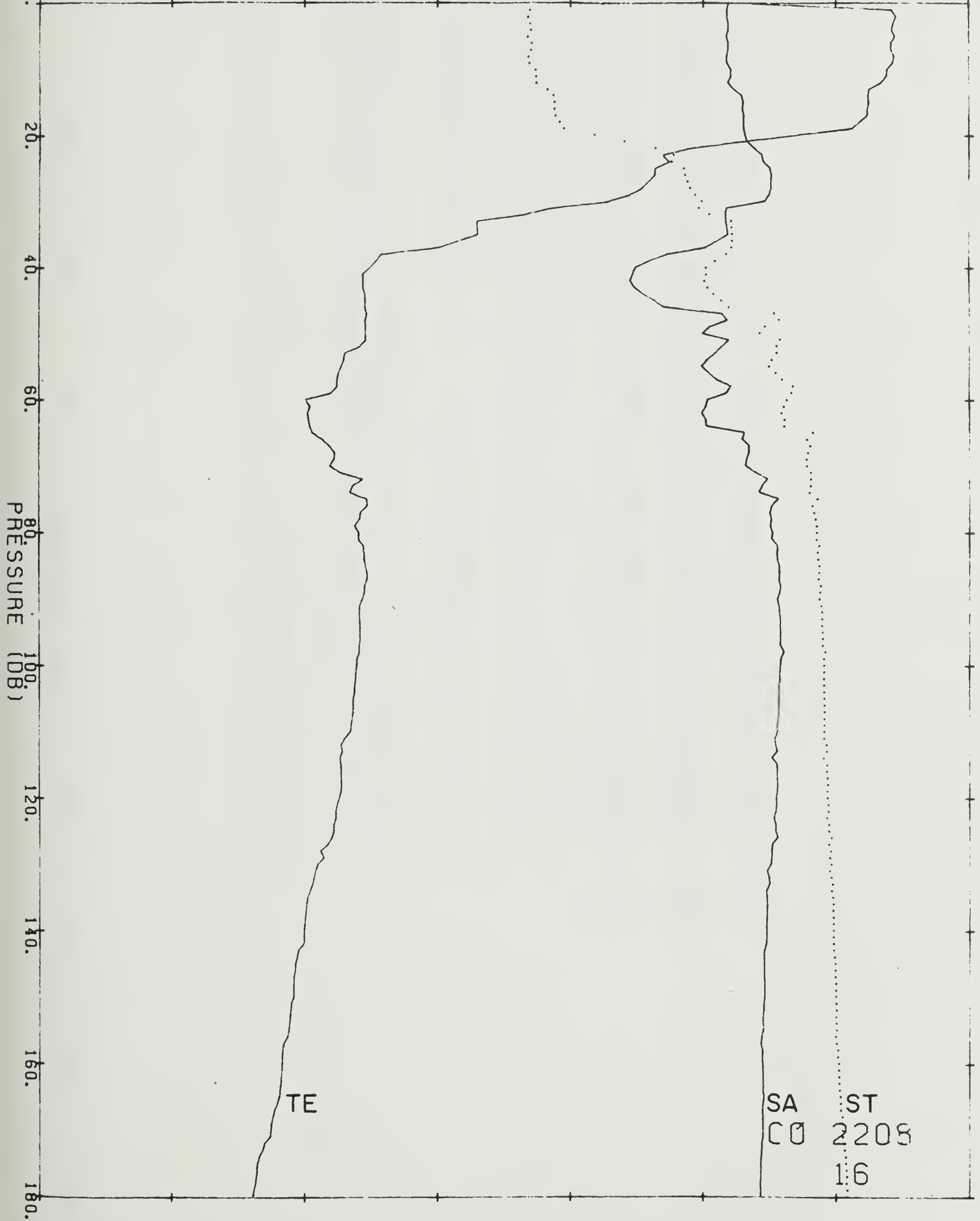
21. 22. 23. 24. 25. 26. 27. 28.

SALINITY (PPT)

30. 31. 32. 33. 34. 35. 36. 37.

TEMPERATURE (DEG C)

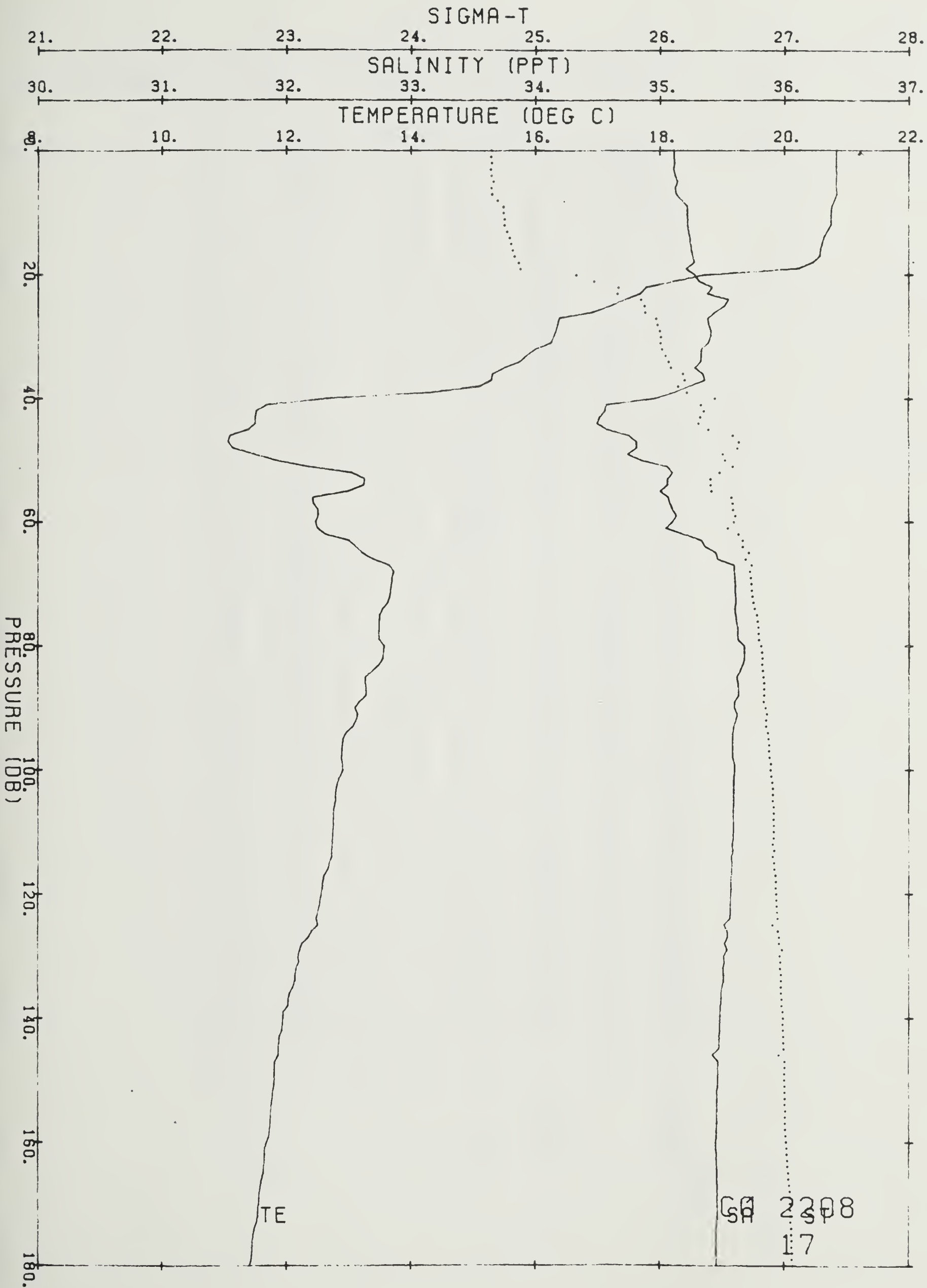
8. 10. 12. 14. 16. 18. 20. 22.



SHIP CD CRUISE 22-08 STATION 17 POSITION 38 27.90 N 73 17.20 W
 LOCAL TIME 249 DATE 79/ 6/17 WIND = DIR = DEPTH= 466M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	20.834	35.113	24.626	330.4	0.000	1524.5	0.0
9	20.764	35.192	24.705	323.2	.031	1524.6	9.5
15	20.394	35.246	24.846	310.0	.050	1523.7	15.5
21	18.521	35.368	25.425	255.1	.067	1518.8	21.5
27	16.683	35.421	25.913	208.8	.081	1513.6	27.5
33	15.765	35.341	26.064	194.6	.093	1510.7	33.5
39	13.439	34.963	26.276	174.5	.104	1502.9	39.5
45	11.418	34.666	26.440	159.0	.114	1495.8	45.5
51	12.279	34.961	26.505	153.0	.123	1499.2	51.5
57	12.696	35.084	26.519	151.9	.133	1500.9	57.5
63	13.023	35.331	26.646	140.1	.141	1502.4	63.5
69	13.589	35.576	26.719	133.4	.150	1504.7	69.5
75	13.554	35.622	26.762	129.4	.157	1504.7	75.5
81	13.455	35.648	26.803	125.8	.165	1504.5	81.5
87	13.249	35.624	26.827	123.6	.173	1503.9	87.5
93	13.013	35.593	26.851	121.5	.180	1503.2	93.5
99	12.866	35.591	26.879	119.0	.187	1502.8	99.5
105	12.783	35.592	26.896	117.5	.194	1502.6	105.5
111	12.729	35.585	26.901	117.1	.201	1502.5	111.5
117	12.619	35.572	26.913	116.1	.208	1502.2	117.5
123	12.468	35.551	26.927	115.0	.215	1501.8	123.5
129	12.253	35.521	26.945	113.3	.222	1501.1	129.5
135	12.073	35.497	26.962	111.9	.229	1500.6	135.5
141	11.932	35.474	26.971	111.1	.235	1500.1	141.5
147	11.831	35.463	26.982	110.2	.242	1499.9	147.5
153	11.768	35.460	26.991	109.4	.249	1499.7	153.5
158	11.694	35.456	27.002	108.5	.255	1499.6	159.5
164	11.607	35.461	27.023	106.7	.262	1499.4	165.5
170	11.527	35.463	27.040	105.2	.268	1499.2	171.5
176	11.445	35.459	27.051	104.2	.274	1499.0	177.5
182	11.365	35.453	27.062	103.4	.281	1498.8	183.5
188	11.292	35.448	27.071	102.6	.287	1498.7	189.5
194	11.212	35.442	27.082	101.7	.293	1498.5	195.5
200	11.074	35.424	27.093	100.7	.299	1498.1	201.5
206	10.847	35.386	27.104	99.7	.305	1497.3	207.5
212	10.648	35.380	27.135	96.9	.311	1496.7	213.5
218	10.558	35.370	27.144	96.1	.317	1496.4	219.5
224	10.519	35.366	27.147	95.9	.322	1496.4	225.5
230	10.449	35.357	27.153	95.5	.328	1496.2	231.5
236	10.228	35.327	27.168	94.1	.334	1495.5	237.5
242	9.913	35.291	27.195	91.6	.339	1494.4	243.5
248	9.766	35.279	27.210	90.2	.345	1494.0	249.5
254	9.622	35.261	27.221	89.3	.350	1493.5	255.5
275	8.891	35.201	27.294	82.4	.369	1491.1	276.9
300	8.187	35.146	27.360	76.2	.389	1488.8	302.1
325	7.525	35.108	27.429	69.7	.407	1486.6	327.3
350	6.975	35.085	27.490	64.0	.424	1484.8	352.6
375	6.493	35.059	27.535	59.8	.440	1483.3	377.8
400	6.090	35.046	27.578	55.8	.454	1482.1	403.0
425	5.851	35.040	27.604	53.5	.468	1481.5	428.2
450	5.590	35.034	27.631	50.9	.481	1480.9	453.4
466	5.455	35.032	27.646	49.6	.489	1480.6	470.0

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AM
15	20.570	35.237						
460	5.480	35.005						



SHIP CO CRUISE 22-08 STATION 18 POSITION 38 26.80 N 73 15.00 W
 LOCAL TIME 926 DATE 79/ 6/17 WIND = DIR = DEPTH=1145M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	20.770	35.109	24.641	329.0	.000	1524.3	.0
5	20.766	35.110	24.642	329.0	.017	1524.4	5.0
10	20.579	35.177	24.744	319.5	.033	1524.1	10.0
15	20.551	35.196	24.766	317.6	.048	1524.1	14.9
20	20.120	35.175	24.865	308.4	.064	1523.0	19.9
25	19.574	35.190	25.020	293.8	.079	1521.6	24.9
30	18.125	35.285	25.460	252.0	.093	1517.7	29.9
35	16.636	35.454	25.950	205.5	.104	1513.6	34.9
40	16.158	35.656	26.217	180.3	.114	1512.4	39.9
45	15.658	35.672	26.344	168.4	.122	1511.0	44.9
50	15.441	35.761	26.461	157.4	.131	1510.5	49.9
55	15.511	35.853	26.516	152.3	.138	1510.9	54.9
60	15.729	36.046	26.616	143.1	.146	1511.9	59.9
65	15.285	35.930	26.627	142.2	.153	1510.5	64.9
70	14.764	35.829	26.664	138.7	.160	1508.8	69.9
75	14.555	35.815	26.699	135.5	.167	1508.2	74.9
80	14.751	35.906	26.726	133.1	.175	1509.0	80.9
85	14.457	35.869	26.762	129.9	.181	1508.1	85.9
90	14.175	35.802	26.771	129.2	.188	1507.2	90.9
95	13.554	35.673	26.802	126.3	.194	1505.1	95.9
100	13.553	35.703	26.825	124.2	.201	1505.2	100.9
105	13.619	35.717	26.822	124.6	.207	1505.5	105.9
110	13.176	35.646	26.858	121.2	.213	1504.1	110.9
115	12.829	35.580	26.877	119.5	.219	1502.9	115.9
120	12.575	35.528	26.888	118.6	.225	1502.1	120.9
125	12.281	35.421	26.862	121.1	.231	1501.0	125.9
130	12.127	35.466	26.927	115.0	.237	1500.6	130.9
135	12.121	35.471	26.932	114.7	.243	1500.7	135.9
140	12.110	35.471	26.934	114.6	.248	1500.7	140.9
145	12.077	35.471	26.941	114.1	.254	1500.7	145.9
150	12.030	35.470	26.949	113.4	.260	1500.6	150.9
155	12.012	35.472	26.954	113.1	.265	1500.6	155.9
160	11.982	35.483	26.968	111.8	.271	1500.6	160.9
165	11.942	35.479	26.973	111.5	.277	1500.6	165.9
170	11.901	35.473	26.976	111.3	.282	1500.5	170.9
175	11.804	35.467	26.990	110.1	.288	1500.2	175.9
180	11.778	35.467	26.995	109.8	.293	1500.2	180.9
185	11.761	35.467	26.998	109.6	.299	1500.3	185.9
190	11.609	35.459	27.021	107.5	.304	1499.8	190.9
195	11.595	35.461	27.025	107.2	.309	1499.8	195.9
200	11.537	35.454	27.030	106.8	.315	1499.7	200.9
225	10.962	35.401	27.095	101.1	.342	1498.0	226.9
250	10.471	35.351	27.144	96.8	.367	1496.6	251.9
275	9.801	35.265	27.193	92.4	.390	1494.5	276.9
300	8.658	35.158	27.297	82.5	.412	1490.5	301.9
325	7.956	35.113	27.370	75.6	.432	1488.2	326.9
350	7.438	35.091	27.429	70.2	.451	1486.6	352.9
375	6.793	35.063	27.497	63.6	.467	1484.5	377.9
400	6.392	35.064	27.552	58.4	.483	1483.3	402.9
425	6.020	35.044	27.585	55.4	.497	1482.2	427.9
450	5.717	35.031	27.613	52.8	.510	1481.4	452.9
475	5.496	35.027	27.637	50.6	.524	1480.9	478.9
500	5.463	35.040	27.652	49.5	.536	1481.2	503.9
600	4.939	35.019	27.698	45.8	.585	1480.7	604.9
700	4.660	35.016	27.727	43.7	.630	1481.2	705.9
800	4.530	35.016	27.742	43.2	.674	1482.3	806.9
900	4.328	35.007	27.757	42.5	.717	1483.1	907.9
1000	4.252	35.000	27.760	43.0	.760	1484.4	1008.9
1100	4.113	34.996	27.771	42.6	.804	1485.5	1110.9
1145	4.066	34.995	27.775	42.5	.823	1486.1	1155.9

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AM
17		35.156	5.65					
50		35.934						
158		35.459	4.84					
996		34.988	5.92					
1032		34.984	5.94					

SIGMA-T

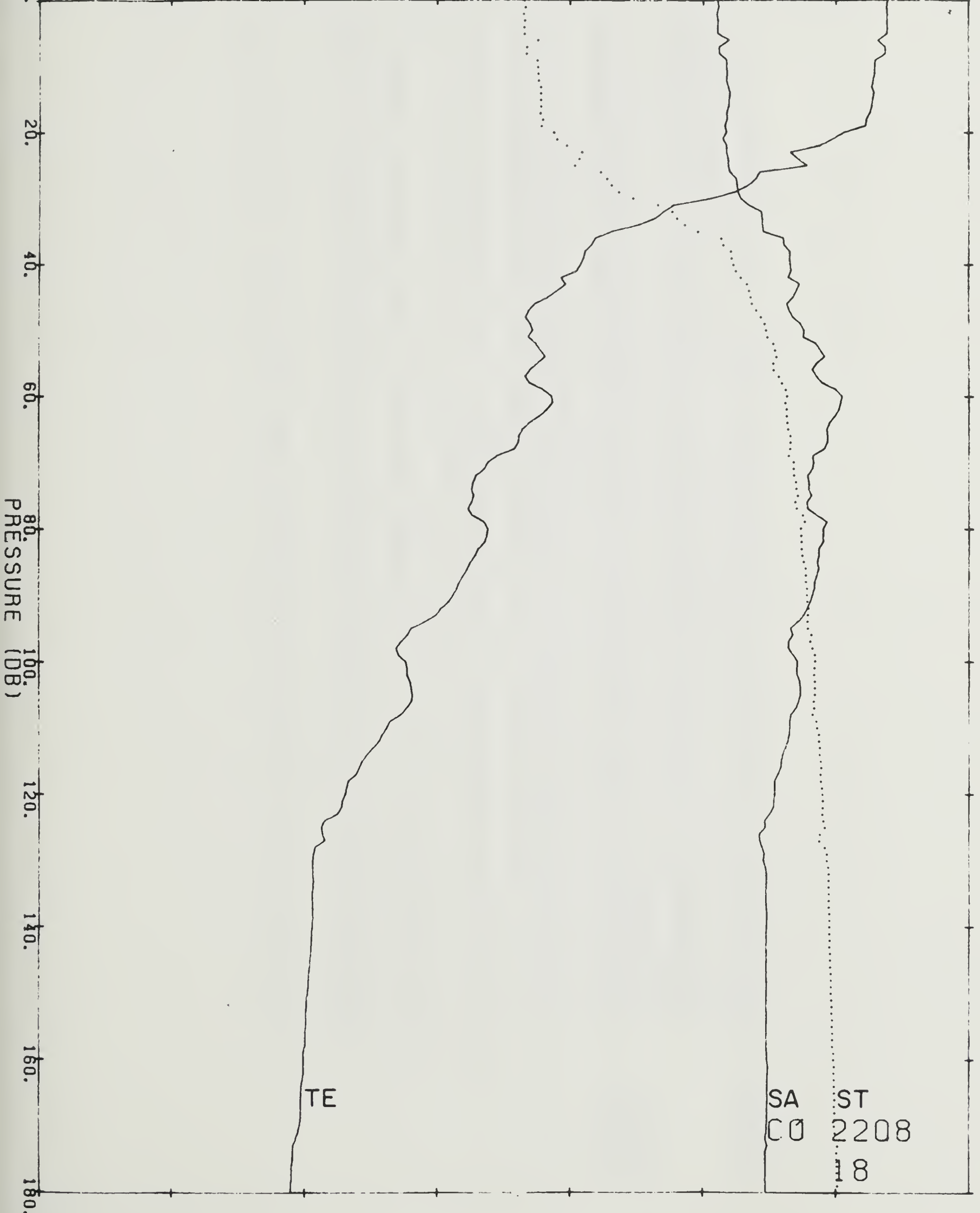
21. 22. 23. 24. 25. 26. 27. 28.

SALINITY (PPT)

30. 31. 32. 33. 34. 35. 36. 37.

TEMPERATURE (DEG C)

10. 12. 14. 16. 18. 20. 22.



TE

SA ST
CO 2208
18

SHIP CO CRUISE 22-08 STATION 19 POSITION 38 25.80 N 73 14.10 W
 LOCAL TIME 1127 DATE 79/ 6/17 WIND = DIR = DEPTH=1500M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	21.182	35.223	24.615	331.4	0.000	1525.6	0.0
9	21.052	35.235	24.660	327.5	.031	1525.4	9.5
15	20.863	35.302	24.762	318.0	.051	1525.1	15.5
21	20.320	35.448	25.020	293.7	.069	1523.9	21.5
27	18.687	35.489	25.476	250.4	.085	1519.5	27.5
33	16.775	35.707	26.111	190.2	.099	1514.3	33.5
39	16.044	35.902	26.432	159.9	.109	1512.4	39.5
45	15.890	36.005	26.547	149.2	.118	1512.1	45.5
51	15.764	36.034	26.598	144.5	.127	1511.9	51.5
57	15.504	36.006	26.636	141.1	.136	1511.1	57.5
63	15.097	35.952	26.686	136.5	.144	1509.9	63.5
69	14.680	35.880	26.722	133.2	.152	1508.6	69.5
75	14.233	35.803	26.759	129.8	.160	1507.2	75.5
81	13.711	35.713	26.800	126.1	.168	1505.4	81.5
87	13.330	35.643	26.825	123.8	.175	1504.2	87.5
93	12.981	35.584	26.850	121.5	.183	1503.1	93.5
99	12.682	35.549	26.883	118.5	.190	1502.1	99.5
105	12.541	35.535	26.900	117.1	.197	1501.7	105.5
111	12.331	35.500	26.914	115.8	.204	1501.0	111.5
117	12.272	35.510	26.933	114.1	.211	1501.0	117.5
123	12.259	35.519	26.943	113.4	.218	1501.0	123.5
129	12.147	35.507	26.955	112.4	.224	1500.7	129.5
135	12.047	35.492	26.963	111.7	.231	1500.5	135.5
141	11.964	35.482	26.971	111.1	.238	1500.3	141.5
147	11.872	35.476	26.984	110.0	.244	1500.0	147.5
153	11.803	35.472	26.994	109.2	.251	1499.9	153.5
158	11.740	35.470	27.004	108.3	.257	1499.8	159.5
164	11.684	35.469	27.014	107.6	.264	1499.7	165.5
170	11.594	35.465	27.028	106.3	.270	1499.4	171.5
176	11.524	35.460	27.037	105.6	.277	1499.3	177.5
182	11.435	35.453	27.048	104.7	.283	1499.1	183.5
188	11.296	35.443	27.067	103.0	.289	1498.7	189.5
194	11.173	35.432	27.081	101.8	.295	1498.3	195.5
200	11.101	35.427	27.090	101.1	.301	1498.2	201.5
206	11.035	35.420	27.097	100.5	.308	1498.0	207.5
212	10.928	35.420	27.116	98.8	.313	1497.7	213.5
218	10.787	35.401	27.127	97.8	.319	1497.3	219.5
224	10.595	35.371	27.138	96.9	.325	1496.7	225.5
230	10.402	35.346	27.152	95.6	.331	1496.1	231.5
236	10.159	35.316	27.172	93.8	.337	1495.2	237.5
242	9.970	35.299	27.191	92.0	.342	1494.6	243.5
248	9.867	35.288	27.200	91.2	.348	1494.3	249.5
254	9.762	35.277	27.209	90.4	.353	1494.0	255.5
275	9.049	35.201	27.268	84.9	.372	1491.7	276.9
300	8.386	35.150	27.333	78.9	.393	1489.5	302.1
325	8.018	35.126	27.371	75.6	.412	1488.5	327.3
350	7.256	35.089	27.453	67.7	.430	1485.9	352.5
375	7.054	35.088	27.481	65.4	.447	1485.5	377.8
400	6.614	35.077	27.533	60.5	.463	1484.2	403.0
425	6.271	35.065	27.569	57.1	.478	1483.2	428.2
450	5.977	35.052	27.597	54.6	.492	1482.5	453.4
475	5.711	35.051	27.630	51.6	.505	1481.8	478.7
500	5.557	35.050	27.649	49.9	.518	1481.6	503.9
600	5.149	35.040	27.690	46.8	.567	1481.6	604.9
700	4.700	35.027	27.731	43.4	.612	1481.4	705.9
800	4.490	35.022	27.751	42.3	.656	1482.1	807.0
900	4.329	35.013	27.761	42.1	.698	1483.1	908.2
1000	4.232	35.009	27.769	42.1	.741	1484.4	1009.3
1100	4.102	35.001	27.777	42.1	.784	1485.5	1110.6
1200	3.998	34.997	27.784	42.0	.826	1486.7	1211.9
1300	3.910	34.994	27.791	42.1	.869	1488.0	1313.2
1400	3.883	34.993	27.793	42.7	.912	1489.6	1414.6
1500	3.790	34.990	27.800	42.6	.954	1490.9	1515.0

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AM
0		35.202						
120		35.490						
508		35.023						
1001		34.983						
1243		34.971						
1493		34.997						

SIGMA-T

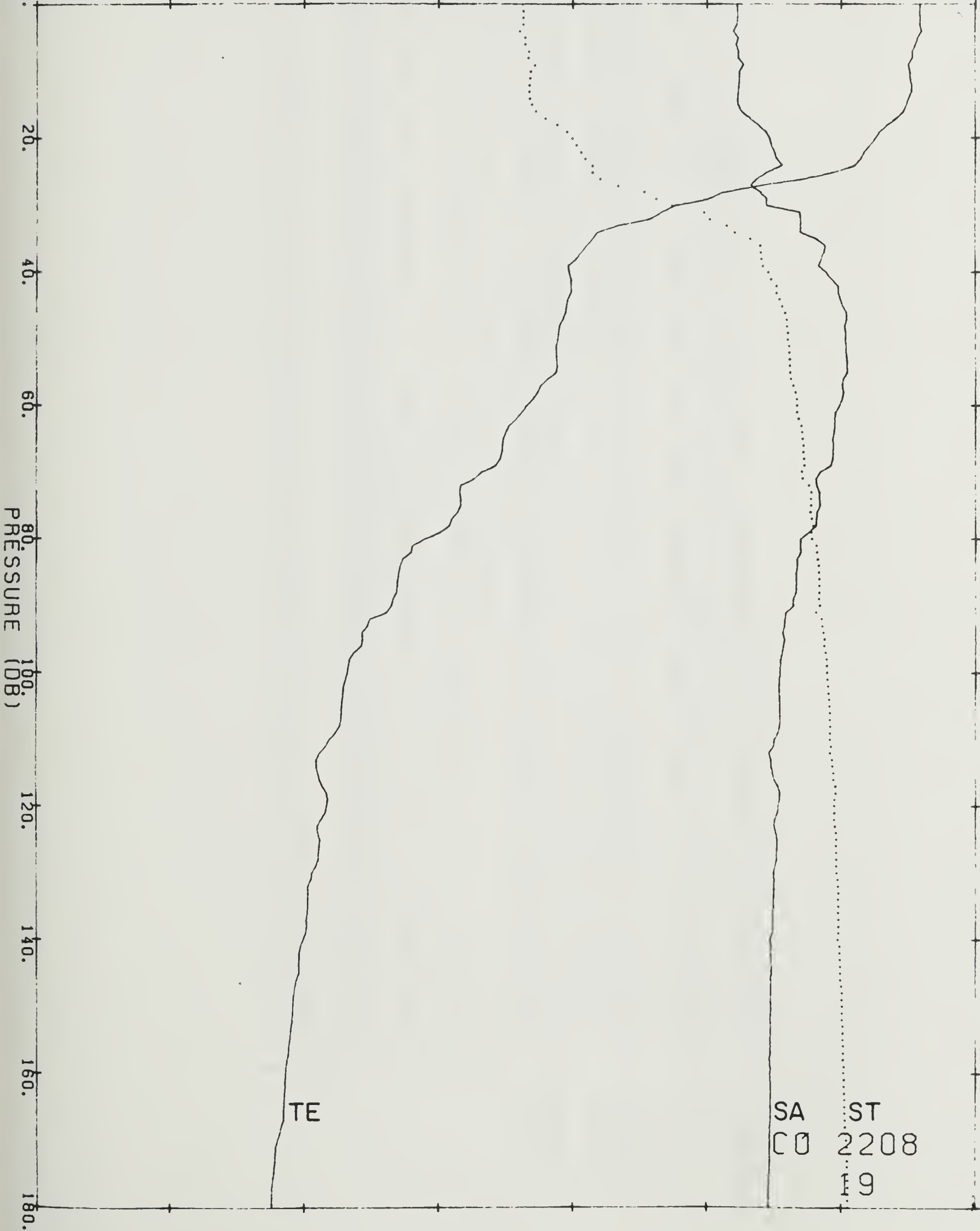
21. 22. 23. 24. 25. 26. 27. 28.

SALINITY (PPT)

30. 31. 32. 33. 34. 35. 36. 37.

TEMPERATURE (DEG C)

8. 10. 12. 14. 16. 18. 20. 22.



TE

SA ST
CO 2208
19

SHIP CO CRUISE 22-08 STATION 20 POSITION 38 23.73 N 73 10.76 W
 LOCAL TIME 1702 DATE 79/ 6/17 WIND = DIR = DEPTH=2047M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	22.083	35.268	24.400	352.0	.004	1528.0	1.0
5	22.053	35.268	24.408	351.3	.018	1528.0	5.0
10	21.987	35.271	24.429	349.5	.035	1527.9	10.0
15	21.362	35.265	24.598	333.6	.052	1526.3	14.9
20	19.624	35.193	25.009	294.6	.068	1521.6	19.9
25	18.132	35.627	25.721	227.1	.081	1518.0	24.9
30	15.748	35.416	26.126	188.6	.091	1510.7	29.9
35	16.940	35.971	26.275	174.7	.100	1515.1	34.9
40	15.593	35.716	26.392	163.6	.109	1510.8	39.9
45	14.536	35.544	26.494	154.1	.117	1507.3	44.9
50	14.715	35.749	26.613	143.0	.124	1508.2	49.9
55	15.135	35.897	26.635	141.1	.131	1509.8	54.9
60	14.518	35.796	26.692	135.7	.138	1507.8	59.9
65	14.161	35.759	26.740	131.3	.145	1506.7	64.9
70	13.282	35.586	26.790	126.6	.151	1503.7	69.9
75	13.133	35.593	26.826	123.3	.159	1503.3	75.9
80	13.571	35.746	26.855	120.8	.165	1505.0	80.9
85	13.133	35.658	26.877	118.8	.171	1503.5	85.9
90	12.854	35.578	26.871	119.5	.177	1502.6	90.9
95	12.575	35.550	26.905	116.3	.183	1501.7	95.9
100	12.288	35.490	26.915	115.5	.188	1500.7	100.9
105	12.023	35.429	26.919	115.2	.194	1499.8	105.9
110	12.013	35.434	26.924	114.8	.200	1499.9	110.9
115	11.994	35.440	26.933	114.1	.206	1499.9	115.9
120	12.053	35.459	26.936	113.9	.211	1500.2	120.9
125	12.071	35.455	26.929	114.7	.217	1500.3	125.9
130	12.110	35.487	26.947	113.2	.223	1500.6	130.9
135	12.105	35.491	26.951	112.9	.228	1500.7	135.9
140	12.107	35.493	26.952	112.9	.234	1500.8	140.9
145	12.041	35.482	26.956	112.6	.240	1500.6	145.9
150	11.971	35.468	26.959	112.5	.245	1500.4	150.9
155	11.894	35.467	26.973	111.3	.251	1500.2	155.9
160	11.815	35.464	26.986	110.2	.256	1500.0	160.9
165	11.733	35.462	27.000	108.9	.262	1499.8	165.9
170	11.718	35.462	27.002	108.8	.267	1499.9	170.9
175	11.684	35.464	27.010	108.2	.273	1499.8	175.9
180	11.726	35.495	27.027	106.8	.278	1500.1	180.9
185	11.593	35.479	27.039	105.6	.283	1499.7	185.9
190	11.508	35.473	27.051	104.7	.289	1499.5	190.9
195	11.364	35.458	27.066	103.3	.294	1499.0	195.9
200	11.259	35.444	27.074	102.6	.299	1498.7	200.9
225	10.649	35.376	27.132	97.5	.325	1496.9	226.9
250	10.135	35.315	27.175	93.7	.349	1495.4	251.9
275	9.497	35.240	27.225	89.2	.372	1493.4	276.9
300	8.845	35.177	27.282	84.0	.393	1491.3	301.9
325	8.384	35.144	27.329	79.8	.414	1489.9	326.9
350	7.751	35.106	27.395	73.6	.434	1487.9	352.9
375	7.297	35.089	27.447	68.7	.452	1486.5	377.9
400	6.880	35.079	27.498	64.0	.468	1485.3	402.9
425	6.515	35.062	27.534	60.6	.484	1484.2	427.9
450	6.250	35.047	27.558	58.5	.499	1483.5	452.9
475	5.963	35.046	27.594	55.2	.513	1482.8	478.9
500	5.696	35.039	27.622	52.6	.527	1482.1	503.9
600	5.201	35.037	27.681	47.7	.578	1481.8	604.9
700	4.716	35.020	27.724	44.1	.624	1481.4	705.9
800	4.550	35.029	27.750	42.5	.668	1482.4	806.9
900	4.394	35.019	27.759	42.4	.711	1483.4	907.9
1000	4.183	35.006	27.772	41.7	.753	1484.2	1008.9
1100	4.080	35.003	27.780	41.7	.796	1485.4	1110.9
1200	3.949	34.993	27.786	41.7	.838	1486.5	1211.9
1300	3.846	34.987	27.792	41.7	.880	1487.8	1312.9
1400	3.820	34.993	27.799	41.9	.923	1489.3	1414.9
1500	3.728	34.987	27.804	42.0	.965	1490.6	1515.9
1600	3.693	34.988	27.808	42.3	1.008	1492.2	1617.9
1700	3.660	34.989	27.813	42.6	1.051	1493.7	1718.9
1800	3.594	34.990	27.820	42.5	1.094	1495.1	1820.9
1900	3.514	34.991	27.829	42.2	1.137	1496.5	1921.9
2000	3.429	34.989	27.836	41.9	1.180	1497.8	2023.9
2047	3.416	34.989	27.837	42.1	1.200	1498.6	2071.9

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AM
14	21.270	35.267	5.36					
124	12.090	35.442	5.28					
604		35.291	5.35					
1002		35.011	5.96					
1591	3.690	35.031	6.15					
2046		35.016	5.87					

SIGMA-T

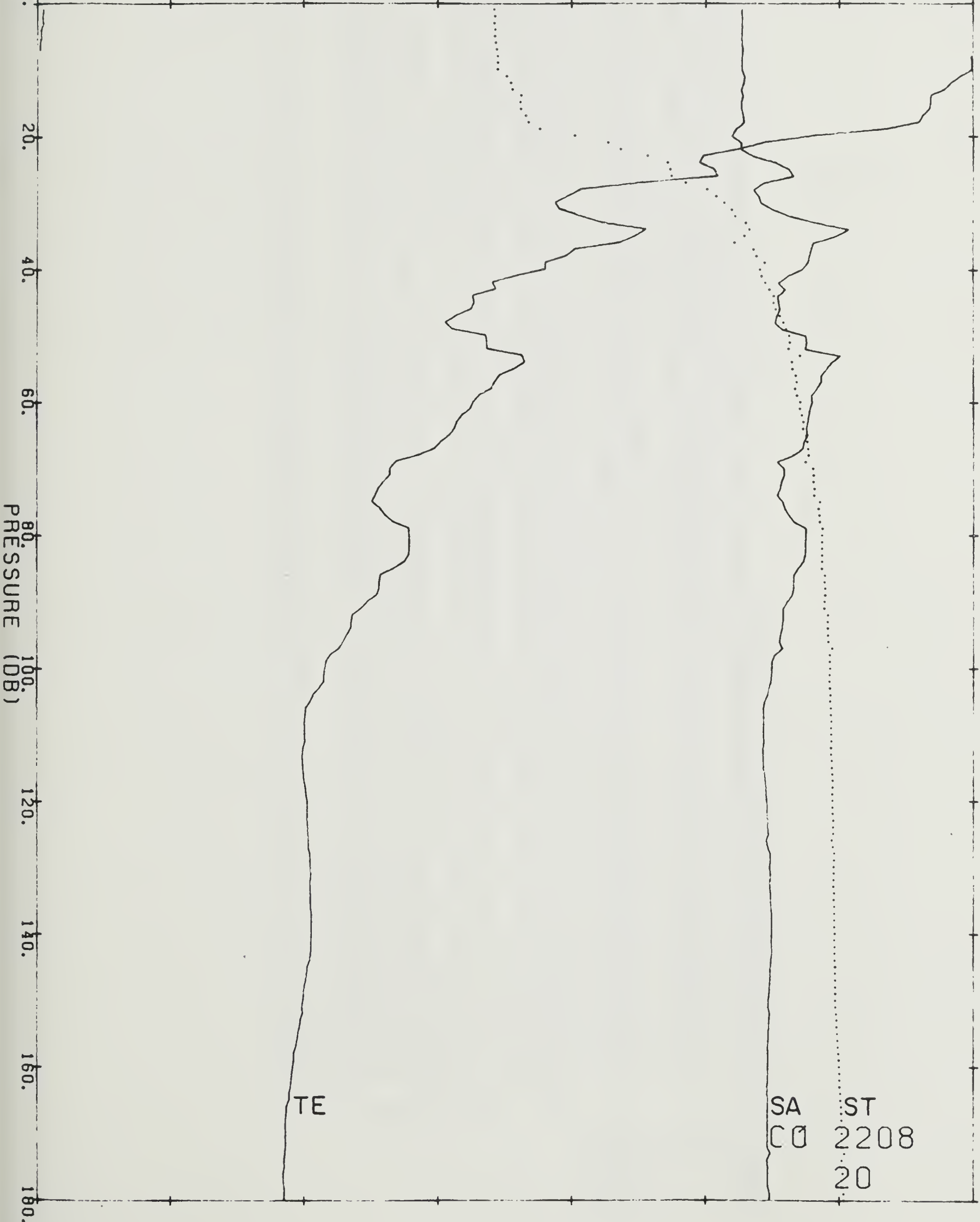
21. 22. 23. 24. 25. 26. 27. 28.

SALINITY (PPT)

30. 31. 32. 33. 34. 35. 36. 37.

TEMPERATURE (DEG C)

8. 10. 12. 14. 16. 18. 20. 22.



SHIP CO CRUISE 22-08 STATION 21 POSITION 38 21.50 N 73 7.00 W
 LOCAL TIME 2305 DATE 79/ 6/17 WIND = DIR = DEPTH=2227M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	21.980	35.390	24.521	340.3	.000	1527.8	.0
5	21.956	35.385	24.524	340.3	.017	1527.8	5.0
10	21.988	35.374	24.507	342.1	.034	1528.0	10.0
15	21.962	35.387	24.524	340.6	.051	1528.0	14.9
20	21.854	35.417	24.577	335.8	.068	1527.9	19.9
25	20.339	35.919	25.374	260.1	.083	1524.5	24.9
30	19.253	35.917	25.658	233.2	.095	1521.6	29.9
35	18.167	35.915	25.933	207.3	.106	1518.6	34.9
40	17.205	35.856	26.123	189.3	.116	1515.8	39.9
45	16.454	35.877	26.318	170.9	.125	1513.7	44.9
50	15.746	35.774	26.402	163.0	.133	1511.5	49.9
55	15.459	35.825	26.507	153.3	.141	1510.7	54.9
60	15.494	35.919	26.571	147.3	.149	1511.0	59.9
65	14.945	35.827	26.623	142.5	.156	1509.3	64.9
70	14.478	35.773	26.683	136.9	.163	1507.8	69.9
75	14.291	35.796	26.741	131.5	.170	1507.3	74.9
80	13.640	35.691	26.798	126.2	.177	1505.2	80.9
85	13.245	35.594	26.804	125.7	.184	1503.8	85.9
90	13.203	35.596	26.814	124.9	.190	1503.8	90.9
95	12.820	35.545	26.852	121.4	.196	1502.5	95.9
100	12.543	35.461	26.842	122.4	.202	1501.5	100.9
105	12.758	35.570	26.884	118.6	.208	1502.5	105.9
110	12.582	35.532	26.889	118.2	.214	1501.9	110.9
115	12.235	35.466	26.906	116.6	.220	1500.8	115.9
120	12.134	35.446	26.910	116.4	.226	1500.5	120.9
125	12.133	35.471	26.930	114.6	.232	1500.6	125.9
130	12.151	35.487	26.939	113.9	.237	1500.7	130.9
135	12.036	35.475	26.952	112.8	.243	1500.4	135.9
140	11.952	35.459	26.956	112.5	.249	1500.2	140.9
145	11.925	35.468	26.968	111.5	.254	1500.2	145.9
150	11.873	35.457	26.969	111.5	.260	1500.1	150.9
155	11.833	35.464	26.982	110.4	.265	1500.0	155.9
160	11.886	35.453	26.964	112.3	.271	1500.3	160.9
165	11.689	35.446	26.995	109.3	.276	1499.7	165.9
170	11.636	35.447	27.006	108.4	.282	1499.6	170.9
175	11.585	35.448	27.017	107.5	.287	1499.5	175.9
180	11.530	35.446	27.026	106.8	.293	1499.3	180.9
185	11.515	35.450	27.031	106.4	.298	1499.4	185.9
190	11.464	35.447	27.039	105.8	.303	1499.3	190.9
195	11.444	35.446	27.042	105.6	.309	1499.3	195.9
200	11.332	35.435	27.054	104.5	.314	1499.0	200.9
225	10.831	35.389	27.110	99.7	.340	1497.6	226.9
250	10.195	35.306	27.158	95.4	.365	1495.6	251.9
275	9.573	35.246	27.217	90.0	.388	1493.7	276.9
300	8.921	35.176	27.269	85.2	.410	1491.6	301.9
325	8.283	35.111	27.318	80.7	.431	1489.5	326.9
350	7.760	35.086	27.378	75.2	.451	1487.9	352.9
375	7.446	35.104	27.438	69.7	.469	1487.1	377.9
400	6.976	35.086	27.490	64.8	.486	1485.6	402.9
425	6.741	35.084	27.521	62.1	.502	1485.1	427.9
450	6.360	35.079	27.568	57.6	.517	1484.0	452.9
475	5.960	35.065	27.609	53.7	.531	1482.8	478.9
500	5.695	35.053	27.634	51.5	.544	1482.1	503.9
600	5.205	35.050	27.691	46.8	.594	1481.8	604.9
700	4.866	35.040	27.723	44.5	.640	1482.1	705.9
800	4.547	35.026	27.748	42.7	.684	1482.4	806.9
900	4.351	35.018	27.763	41.9	.727	1483.2	907.9
1000	4.215	35.010	27.771	41.9	.769	1484.3	1008.9
1100	4.122	35.003	27.776	42.2	.812	1485.6	1110.9
1200	4.032	35.002	27.785	42.1	.854	1486.9	1211.9
1300	3.903	34.993	27.791	42.0	.897	1488.0	1312.9
1400	3.832	34.994	27.799	41.9	.940	1489.4	1414.9
1500	3.736	34.986	27.803	42.2	.982	1490.7	1515.9
1600	3.675	34.991	27.813	41.8	1.025	1492.1	1616.9
1700	3.613	34.991	27.819	41.9	1.067	1493.5	1718.9
1800	3.527	34.989	27.826	41.7	1.110	1494.8	1820.9
1900	3.471	34.989	27.831	41.7	1.152	1496.3	1921.9
2000	3.431	34.987	27.834	42.1	1.195	1497.8	2023.9
2100	3.348	34.986	27.841	41.8	1.238	1499.2	2125.9
2200	3.213	34.984	27.852	40.8	1.279	1500.3	2226.9
2227	3.208	34.983	27.852	41.0	1.291	1500.7	2254.9

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AM
11	12.900	35.373						
124	12.110	35.472						
504		34.995						
1004		34.999						
1499	3.720	34.979						
2225		34.987						

SIGMA-T

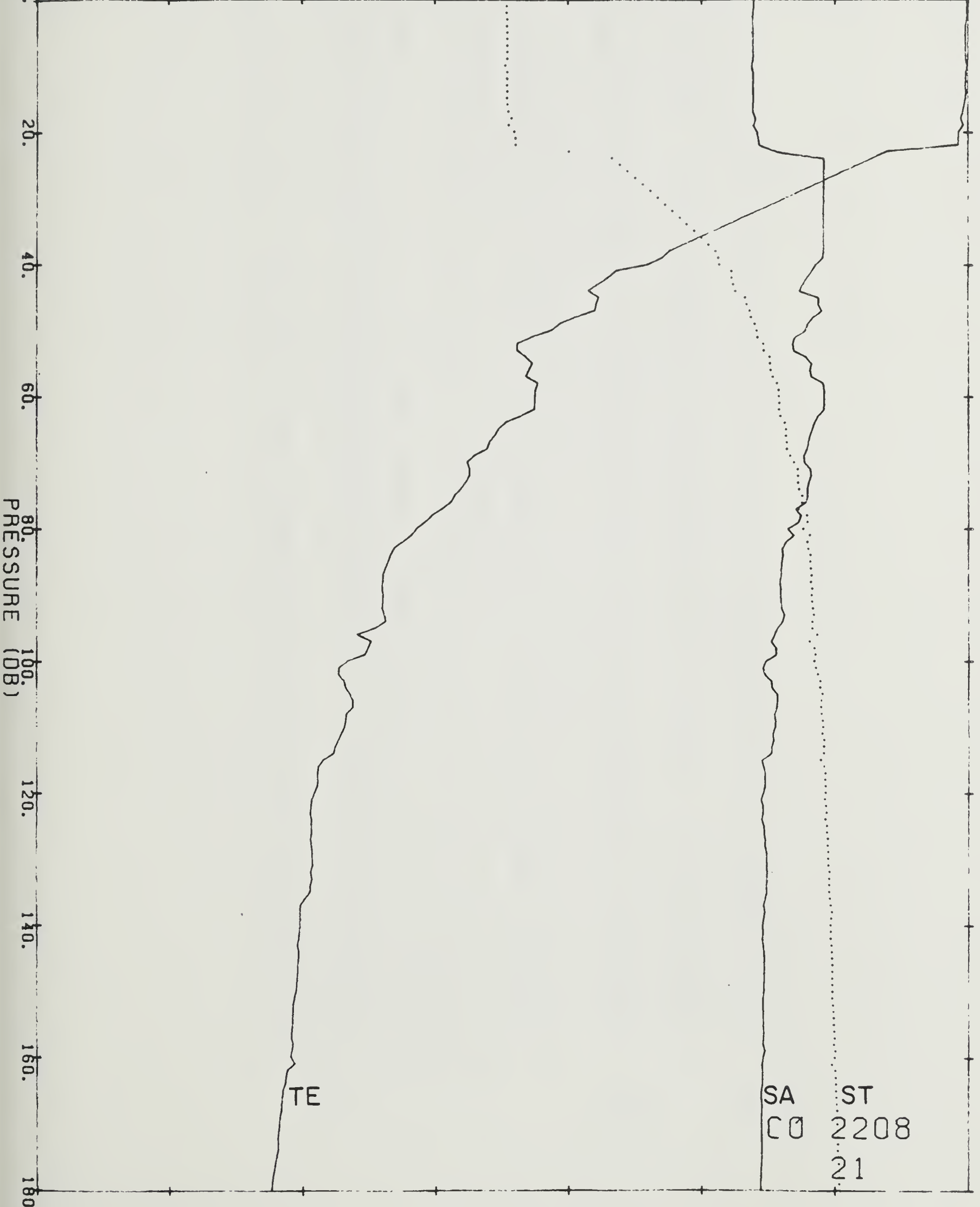
21. 22. 23. 24. 25. 26. 27. 28.

SALINITY (PPT)

30. 31. 32. 33. 34. 35. 36. 37.

TEMPERATURE (DEG C)

8. 10. 12. 14. 16. 18. 20. 22.



TE

SA ST
CO 2208
21

SHIP CO CRUISE 22-08 STATION 22 POSITION 38 14.20 N 72 56.00 W
 LOCAL TIME 622 DATE 79/ 6/18 WIND = DIR = DEPTH=1566M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS	
0	21.710	35.352	24.568	335.9	0.000	1527.1	0.0	
9	21.689	35.345	24.568	336.2	.032	1527.2	9.5	
15	21.468	35.295	24.591	334.2	.052	1526.7	15.5	
21	20.239	35.336	24.956	299.7	.071	1523.5	21.5	
27	18.253	35.494	25.589	239.7	.087	1518.3	27.5	
33	16.642	35.432	25.932	207.2	.101	1513.5	33.5	
39	15.592	35.409	26.156	186.0	.112	1510.4	39.5	
45	14.548	35.361	26.350	167.8	.123	1507.1	45.5	
51	14.142	35.394	26.462	157.2	.133	1506.0	51.5	
57	14.405	35.588	26.556	148.5	.142	1507.2	57.5	
63	14.634	35.762	26.641	140.7	.151	1508.2	63.5	
69	14.768	35.878	26.701	135.2	.159	1508.9	69.5	
75	14.482	35.841	26.735	132.1	.167	1508.0	75.5	
81	14.107	35.779	26.767	129.2	.175	1506.8	81.5	
87	13.650	35.687	26.793	126.9	.182	1505.3	87.5	
93	12.998	35.568	26.834	123.1	.190	1503.1	93.5	
99	12.611	35.508	26.865	120.2	.197	1501.8	99.5	
105	12.586	35.518	26.878	119.2	.204	1501.8	105.5	
111	12.508	35.522	26.896	117.5	.212	1501.7	111.5	
117	12.445	35.527	26.913	116.1	.219	1501.6	117.5	
123	12.265	35.502	26.929	114.7	.225	1501.0	123.5	
129	12.233	35.511	26.941	113.7	.232	1501.0	129.5	
135	12.336	35.544	26.947	113.3	.239	1501.5	135.5	
141	12.391	35.566	26.953	112.9	.246	1501.8	141.5	
147	12.281	35.546	26.960	112.4	.253	1501.5	147.5	
153	12.107	35.514	26.968	111.7	.259	1501.0	153.5	
159	12.034	35.508	26.978	110.9	.266	1500.8	159.5	
164	11.982	35.506	26.987	110.2	.273	1500.7	165.5	
170	11.876	35.496	26.998	109.2	.279	1500.5	171.5	
176	11.795	35.490	27.009	108.3	.286	1500.3	177.5	
182	11.725	35.486	27.020	107.5	.292	1500.1	183.5	
188	11.630	35.476	27.030	106.6	.299	1499.9	189.5	
194	11.531	35.466	27.041	105.7	.305	1499.6	195.5	
200	11.458	35.463	27.052	104.8	.311	1499.5	201.5	
206	11.403	35.464	27.063	103.9	.318	1499.4	207.5	
212	11.304	35.456	27.076	102.8	.324	1499.1	213.5	
218	11.161	35.438	27.088	101.7	.330	1498.7	219.5	
224	10.973	35.398	27.091	101.5	.336	1498.1	225.5	
230	10.801	35.392	27.117	99.1	.342	1497.5	231.5	
236	10.696	35.389	27.134	97.6	.348	1497.3	237.5	
242	10.591	35.373	27.140	97.1	.354	1497.0	243.5	
248	10.371	35.343	27.156	95.6	.360	1496.2	249.5	
254	10.191	35.318	27.168	94.5	.365	1495.6	255.5	
275	9.605	35.236	27.204	91.3	.385	1493.8	276.9	
300	9.075	35.195	27.259	86.3	.408	1492.2	302.1	
325	8.232	35.097	27.315	80.9	.429	1489.3	327.3	
350	7.685	35.059	27.367	76.1	.448	1487.5	352.5	
375	7.448	35.099	27.433	70.1	.467	1487.1	377.7	
400	7.098	35.094	27.480	65.9	.484	1486.1	403.0	
425	6.777	35.090	27.521	62.1	.500	1485.3	428.2	
450	6.454	35.075	27.552	59.2	.516	1484.4	453.4	
475	6.144	35.062	27.584	56.4	.530	1483.6	478.6	
500	5.908	35.061	27.613	53.7	.544	1483.0	503.9	
600	5.221	35.049	27.688	47.1	.595	1481.9	604.9	
700	4.760	35.031	27.728	43.8	.641	1481.6	705.9	
800	4.606	35.033	27.747	42.9	.685	1482.6	807.0	
900	4.380	35.021	27.762	42.1	.728	1483.3	908.1	
1000	4.241	35.017	27.775	41.6	.770	1484.4	1009.3	
1100	4.092	35.008	27.783	41.5	.812	1485.5	1110.5	
1200	3.944	34.997	27.790	41.4	.854	1486.5	1211.8	
1300	3.873	34.997	27.797	41.4	.896	1487.9	1313.1	
1400	3.808	35.000	27.806	41.2	.938	1489.3	1414.5	
1500	3.745	34.999	27.812	41.3	.980	1490.7	1515.9	
1566	3.707	35.001	27.817	41.3	1.007	1491.7	1583.0	
DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AM
13		35.276						
23		35.485						
2553		34.991						

SIGMA-T

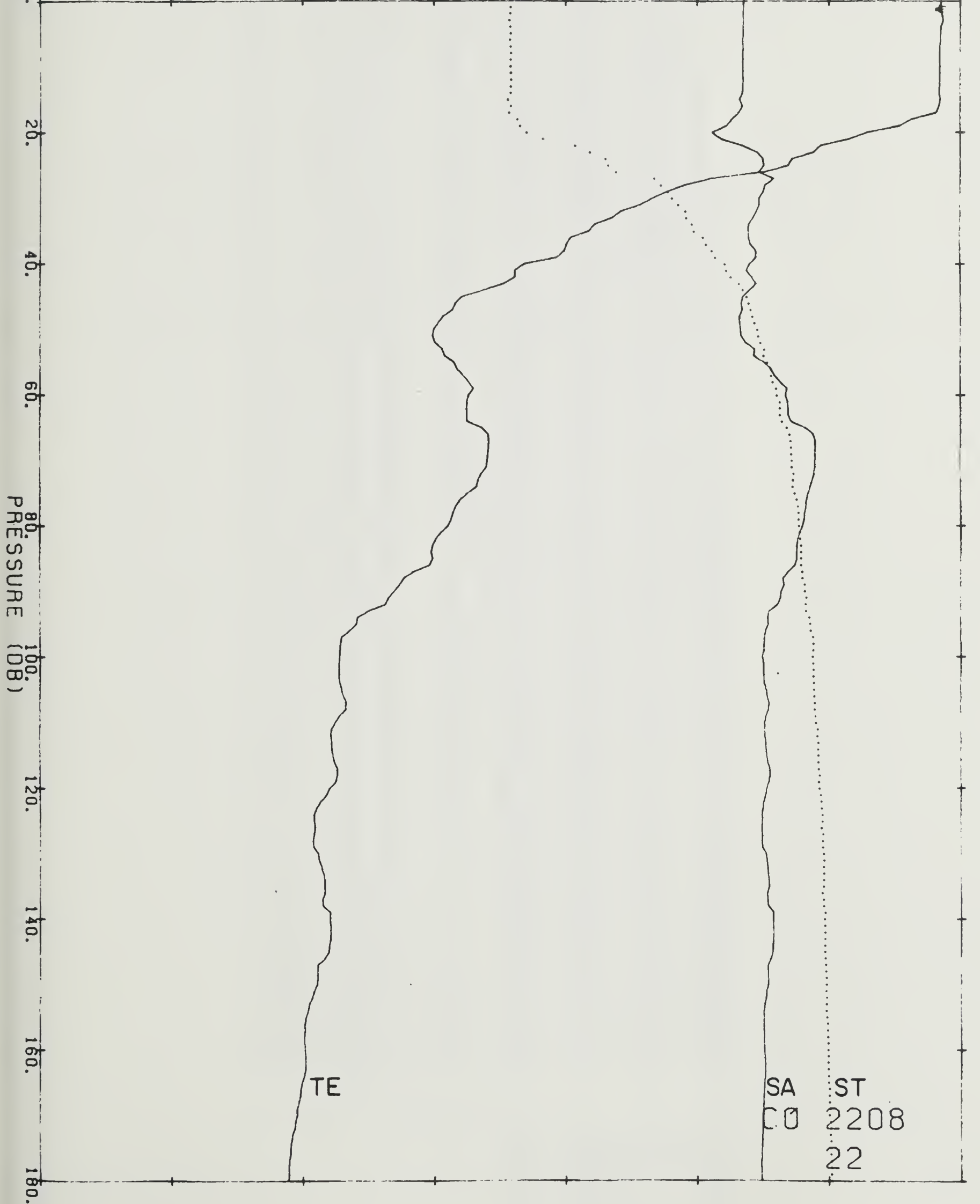
21. 22. 23. 24. 25. 26. 27. 28.

SALINITY (PPT)

30. 31. 32. 33. 34. 35. 36. 37.

TEMPERATURE (DEG C)

8. 10. 12. 14. 16. 18. 20. 22.



SHIP CO CRUISE 22-08 STATION 23 POSITION 38 2.00 N 72 44.80 W
 LOCAL TIME 1259 DATE 79/ 6/18 WIND = DIR = DEPTH=2760M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	22.430	35.430	24.425	349.6	.004	1529.0	1.0
5	22.438	35.437	24.428	349.5	.018	1529.1	5.0
10	22.284	35.441	24.475	345.2	.035	1528.8	10.0
15	22.112	35.427	24.512	341.8	.052	1528.5	14.9
20	21.621	35.454	24.670	326.9	.068	1527.3	19.9
25	19.700	35.485	25.212	275.5	.084	1522.3	24.9
30	18.145	35.471	25.598	238.9	.096	1518.0	29.9
35	17.352	35.717	25.981	202.6	.107	1516.0	34.9
40	16.653	35.765	26.185	183.4	.117	1514.1	39.9
45	16.183	35.810	26.329	169.8	.126	1512.8	44.9
50	15.620	35.762	26.422	161.2	.134	1511.1	49.9
55	15.161	35.761	26.524	151.6	.142	1509.7	54.9
60	14.901	35.740	26.565	147.8	.149	1509.0	59.9
65	14.748	35.742	26.600	144.6	.157	1508.6	64.9
70	14.607	35.755	26.641	140.9	.164	1508.2	69.9
75	14.631	35.826	26.691	136.3	.171	1508.5	74.9
80	14.673	35.891	26.732	132.6	.179	1508.8	80.9
85	14.736	35.949	26.763	129.8	.185	1509.1	85.9
90	14.720	35.954	26.770	129.3	.192	1509.2	90.9
95	14.669	35.959	26.785	128.0	.198	1509.1	95.9
100	14.652	35.962	26.791	127.6	.205	1509.1	100.9
105	14.487	35.936	26.807	126.2	.211	1508.6	105.9
110	14.346	35.910	26.817	125.3	.217	1508.2	110.9
115	14.178	35.887	26.836	123.7	.224	1507.7	115.9
120	13.843	35.811	26.848	122.6	.230	1506.6	120.9
125	13.688	35.786	26.861	121.5	.236	1506.2	125.9
130	13.306	35.700	26.874	120.4	.242	1504.9	130.9
135	12.790	35.590	26.893	118.5	.248	1503.1	135.9
140	12.529	35.555	26.918	116.3	.254	1502.3	140.9
145	12.412	35.550	26.937	114.6	.260	1501.9	145.9
150	12.391	35.553	26.943	114.1	.265	1502.0	150.9
155	12.291	35.538	26.951	113.4	.271	1501.7	155.9
160	12.237	35.541	26.964	112.3	.277	1501.6	160.9
165	12.185	35.531	26.967	112.2	.282	1501.5	165.9
170	12.056	35.503	26.970	112.0	.288	1501.1	170.9
175	11.893	35.478	26.982	110.9	.293	1500.6	175.9
180	11.860	35.490	26.997	109.6	.299	1500.5	180.9
185	11.705	35.472	27.013	108.2	.304	1500.1	185.9
190	11.623	35.463	27.021	107.5	.310	1499.9	190.9
195	11.594	35.469	27.031	106.6	.315	1499.8	195.9
200	11.605	35.476	27.035	106.5	.320	1500.0	200.9
225	11.133	35.434	27.090	101.7	.347	1498.7	226.9
250	10.513	35.352	27.138	97.5	.372	1496.8	251.9
275	10.046	35.297	27.177	94.1	.396	1495.4	276.9
300	9.438	35.218	27.218	90.4	.419	1493.5	301.9
325	8.877	35.171	27.272	85.4	.441	1491.8	326.9
350	8.170	35.079	27.311	81.8	.463	1489.4	352.9
375	7.811	35.041	27.335	79.7	.483	1488.4	377.9
400	7.701	35.077	27.379	75.9	.503	1488.4	402.9
425	7.317	35.085	27.441	70.1	.521	1487.4	427.9
450	6.807	35.072	27.503	64.3	.538	1485.8	452.9
475	6.275	35.062	27.566	58.1	.554	1484.1	478.9
500	6.072	35.062	27.593	55.8	.568	1483.7	503.9
600	5.199	35.036	27.681	47.8	.620	1481.8	604.9
700	4.770	35.022	27.720	44.6	.667	1481.6	705.9
800	4.530	35.005	27.733	44.0	.712	1482.3	806.9
900	4.384	35.017	27.759	42.4	.755	1483.4	907.9
1000	4.229	35.010	27.770	42.0	.798	1484.4	1008.9
1100	4.131	35.006	27.777	42.1	.841	1485.6	1110.9
1200	4.018	35.000	27.784	42.1	.883	1486.8	1211.9
1300	3.935	34.998	27.792	42.1	.926	1488.1	1312.9
1400	3.861	34.997	27.798	42.1	.969	1489.5	1414.9
1500	3.789	34.995	27.804	42.2	1.011	1490.9	1515.9
1600	3.715	34.996	27.813	42.0	1.054	1492.3	1616.9
1700	3.646	34.997	27.820	41.9	1.097	1493.7	1718.9
1800	3.587	34.995	27.825	42.0	1.139	1495.1	1819.9
1900	3.500	34.994	27.833	41.7	1.182	1496.4	1921.9
2000	3.396	34.991	27.840	41.3	1.224	1497.7	2023.9
2100	3.314	34.989	27.847	41.1	1.266	1499.0	2124.9
2200	3.231	34.984	27.851	41.0	1.308	1500.4	2226.9
2300	3.143	34.980	27.856	40.8	1.349	1501.7	2328.9
2400	3.051	34.977	27.862	40.4	1.391	1503.0	2430.9
2500	2.945	34.973	27.869	39.9	1.432	1504.3	2532.9
2600	2.838	34.967	27.874	39.4	1.472	1505.5	2634.9
2700	2.713	34.962	27.881	38.5	1.512	1506.7	2736.9
2780	2.601	34.955	27.885	37.9	1.543	1507.6	2817.9

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AM
8	21.250	34.830	5.42					
511	5.900	35.036	4.72					
1003		34.992	5.86					
1499		34.974	6.11					
1988	3.420	34.970	6.11					
2778		35.018	5.64					

SIGMA-T

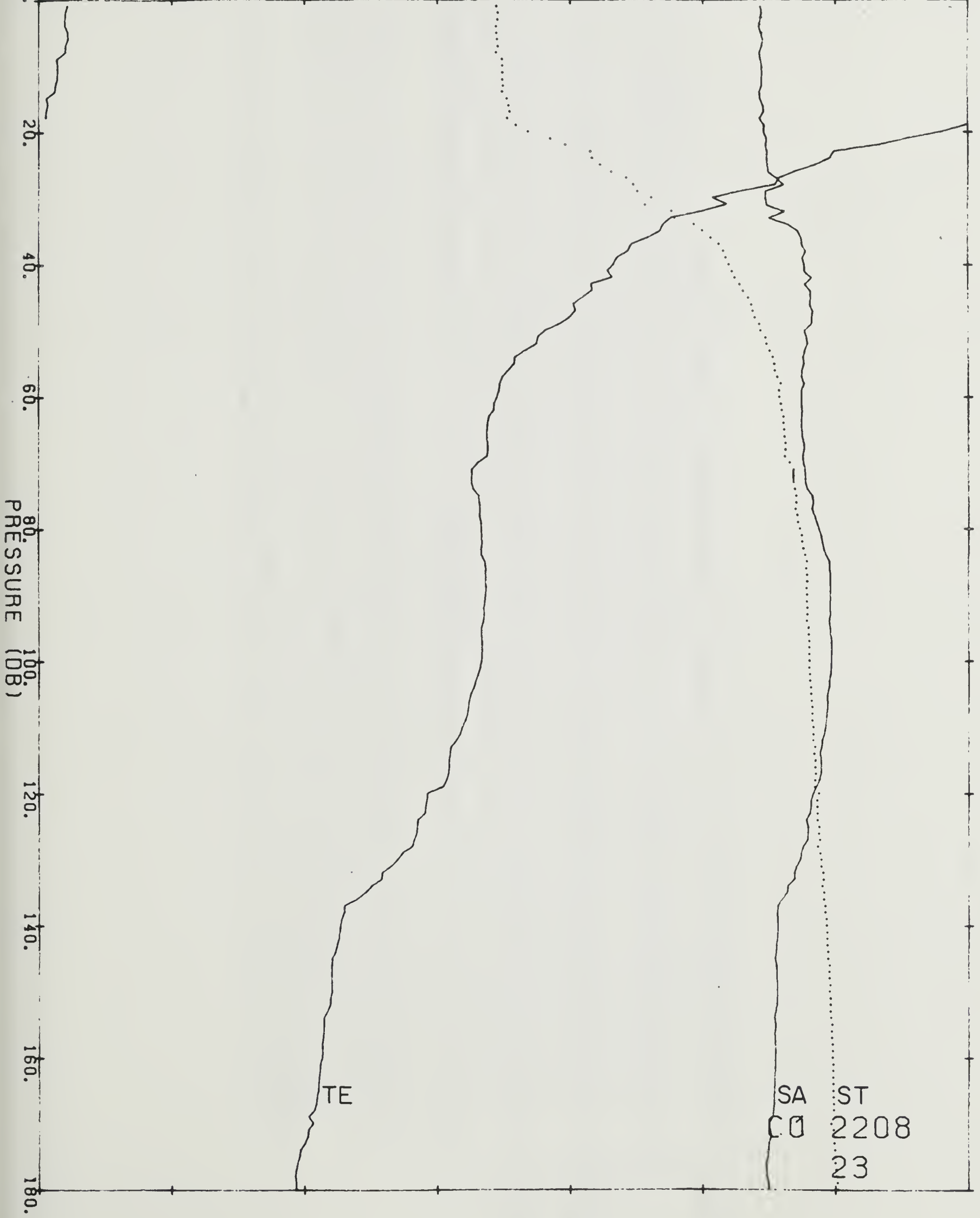
21. 22. 23. 24. 25. 26. 27. 28.

SALINITY (PPT)

30. 31. 32. 33. 34. 35. 36. 37.

TEMPERATURE (DEG C)

8. 10. 12. 14. 16. 18. 20. 22.



PRESSURE (DB)

20.

40.

60.

80.

100.

120.

140.

160.

180.

SHIP CO CRUISE 22-08 STATION 24 POSITION 37 56.67 N 72 59.70 W
 LOCAL TIME 1930 DATE 79/ 6/18 WIND * DIR * DEPTH=2551M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	22.510	35.005	24.079	382.5	.000	1528.7	.0
5	22.379	35.350	24.378	354.2	.018	1528.9	5.0
10	22.180	35.378	24.456	346.9	.036	1528.5	10.0
15	22.094	35.453	24.537	339.4	.053	1528.4	14.9
20	21.987	35.434	24.553	338.1	.070	1528.2	19.9
25	21.543	35.387	24.641	329.9	.086	1527.1	24.9
30	20.911	35.420	24.839	311.1	.102	1525.6	29.9
35	18.253	35.781	25.809	219.1	.116	1518.7	34.9
40	16.749	35.599	26.035	197.7	.126	1514.2	39.9
45	15.995	35.609	26.218	180.4	.136	1512.0	44.9
50	15.504	35.604	26.326	170.2	.144	1510.5	49.9
55	14.686	35.615	26.516	152.3	.152	1508.0	54.9
60	15.049	35.775	26.560	148.4	.160	1509.5	59.9
65	15.205	35.894	26.617	143.1	.167	1510.2	64.9
70	14.850	35.841	26.654	139.6	.174	1509.1	69.9
75	14.558	35.824	26.705	134.9	.181	1508.2	74.9
80	14.226	35.766	26.732	132.5	.189	1507.2	80.9
85	13.528	35.623	26.768	129.1	.196	1504.8	85.9
90	12.739	35.459	26.802	126.0	.202	1502.0	90.9
95	12.383	35.394	26.822	124.2	.208	1500.8	95.9
100	12.595	35.487	26.852	121.5	.215	1501.8	100.9
105	12.399	35.440	26.854	121.4	.221	1501.1	105.9
110	12.367	35.448	26.867	120.3	.227	1501.1	110.9
115	12.110	35.415	26.891	118.1	.233	1500.3	115.9
120	12.308	35.489	26.910	116.4	.238	1501.1	120.9
125	12.273	35.488	26.916	116.0	.244	1501.1	125.9
130	12.359	35.489	26.900	117.7	.250	1501.4	130.9
135	12.272	35.517	26.939	114.1	.256	1501.3	135.9
140	12.197	35.510	26.948	113.3	.262	1501.1	140.9
145	12.156	35.507	26.954	112.9	.267	1501.0	145.9
150	12.103	35.501	26.959	112.5	.273	1500.9	150.9
155	12.016	35.488	26.966	112.0	.278	1500.7	155.9
160	11.950	35.478	26.971	111.6	.284	1500.5	160.9
165	11.907	35.477	26.978	111.0	.290	1500.5	165.9
170	11.771	35.459	26.990	110.0	.295	1500.0	170.9
175	11.691	35.446	26.995	109.6	.301	1499.8	175.9
180	11.660	35.461	27.013	108.1	.306	1499.8	180.9
185	11.611	35.465	27.025	107.0	.311	1499.7	185.9
190	11.573	35.463	27.031	106.6	.317	1499.7	190.9
195	11.528	35.469	27.044	105.4	.322	1499.6	195.9
200	11.464	35.461	27.049	105.0	.327	1499.5	200.9
225	10.882	35.391	27.102	100.4	.354	1497.7	226.9
250	10.183	35.314	27.166	94.6	.378	1495.6	251.9
275	9.525	35.237	27.218	89.9	.402	1493.5	276.9
300	8.973	35.181	27.265	85.7	.423	1491.8	301.9
325	8.476	35.155	27.323	80.4	.444	1490.3	326.9
350	7.927	35.118	27.378	75.3	.464	1488.6	352.9
375	7.330	35.091	27.444	69.0	.483	1486.6	377.9
400	6.753	35.065	27.504	63.3	.499	1484.7	402.9
425	6.451	35.060	27.541	59.9	.514	1483.9	427.9
450	6.111	35.053	27.580	56.2	.529	1483.0	452.9
475	5.775	35.046	27.618	52.7	.543	1482.1	478.9
500	5.576	35.042	27.640	50.8	.556	1481.7	503.9
600	5.071	35.039	27.698	45.9	.605	1481.2	604.9
700	4.659	35.017	27.728	43.6	.650	1481.2	705.9
800	4.561	35.027	27.747	42.8	.694	1482.4	806.9
900	4.356	35.017	27.762	42.1	.737	1483.2	907.9
1000	4.176	35.004	27.771	41.8	.779	1484.1	1008.9
1100	4.077	35.003	27.781	41.6	.822	1485.4	1110.9
1200	3.974	34.999	27.788	41.6	.864	1486.6	1211.9
1300	3.906	34.998	27.795	41.7	.906	1488.0	1312.9
1400	3.835	34.998	27.802	41.7	.948	1489.4	1414.9
1500	3.764	35.000	27.811	41.5	.990	1490.8	1515.9
1600	3.694	34.999	27.817	41.5	1.032	1492.2	1616.9
1700	3.608	34.998	27.825	41.3	1.074	1493.5	1718.9
1800	3.517	34.992	27.829	41.3	1.116	1494.8	1819.9
1900	3.424	34.990	27.837	41.0	1.158	1496.1	1921.9
2000	3.339	34.988	27.843	40.8	1.200	1497.4	2023.9
2100	3.252	34.985	27.850	40.5	1.241	1498.8	2124.9
2200	3.165	34.984	27.857	40.1	1.282	1500.1	2226.9
2300	3.079	34.980	27.862	39.9	1.323	1501.4	2328.9
2400	2.985	34.976	27.867	39.5	1.363	1502.7	2430.9
2500	2.879	34.972	27.874	39.0	1.403	1504.0	2532.9
2551	2.848	34.972	27.877	38.9	1.424	1504.7	2584.9

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AM
14	21.190	35.238	5.44					
162	11.500	35.422	4.09					
501		35.006	4.85					
998		34.974	5.91					
1985	3.350	34.950	6.22					
2550		34.989	5.80					

SIGMA-T

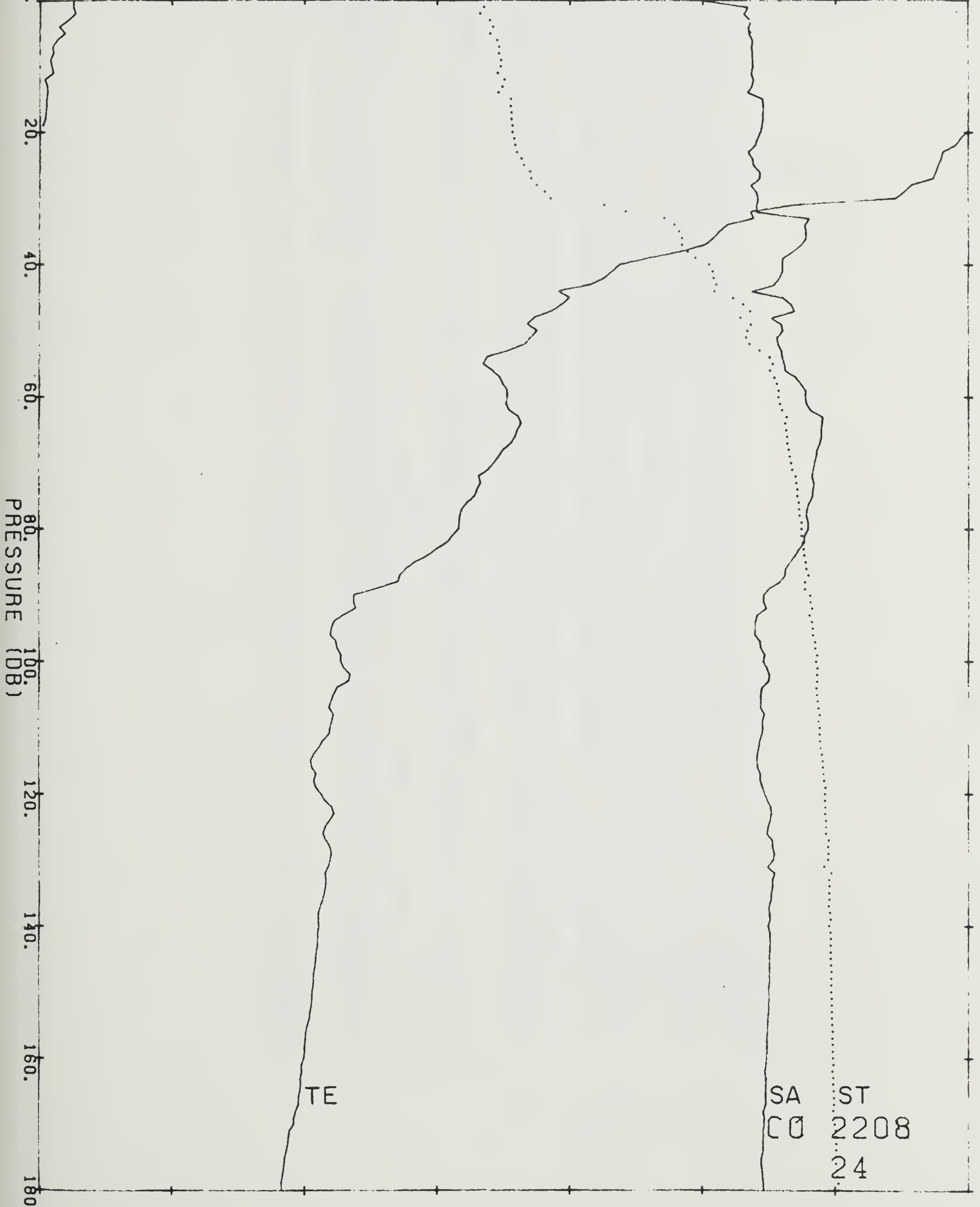
21. 22. 23. 24. 25. 26. 27. 28.

SALINITY (PPT)

30. 31. 32. 33. 34. 35. 36. 37.

TEMPERATURE (DEG C)

8. 10. 12. 14. 16. 18. 20. 22.



0.
20.
40.
60.
80.
100.
120.
140.
160.
180.
PRESSURE (DB)

TE

SA ST
CO 2208
24

SHIP CO CRUISE 22-08 STATION 25 POSITION 37 48.53 N 73 29.52 W
 LOCAL TIME 354 DATE 79/ 6/19 WIND = DIR = DEPTH=2087M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS	
0	21.450	35.442	24.708	322.5	0.000	1526.5	0.0	
9	21.409	35.435	24.715	322.3	.031	1526.6	9.5	
15	21.251	35.428	24.753	318.9	.050	1526.2	15.5	
21	20.478	35.508	25.023	293.3	.068	1524.4	21.5	
27	18.946	35.907	25.730	226.3	.084	1520.7	27.5	
33	17.560	35.985	26.136	187.8	.096	1516.9	33.5	
39	16.458	35.827	26.278	174.5	.107	1513.6	39.5	
45	15.878	35.807	26.398	163.3	.117	1511.9	45.5	
51	15.381	35.835	26.532	150.8	.127	1510.5	51.5	
57	15.035	35.852	26.622	142.3	.135	1509.5	57.5	
63	14.669	35.825	26.682	136.8	.144	1508.4	63.5	
69	14.207	35.767	26.737	131.8	.152	1506.9	69.5	
75	13.831	35.719	26.779	127.9	.160	1505.7	75.5	
81	13.435	35.655	26.813	124.8	.167	1504.5	81.5	
87	13.091	35.608	26.846	121.7	.175	1503.4	87.5	
93	12.952	35.599	26.868	119.8	.182	1503.0	93.5	
99	12.752	35.566	26.882	118.6	.189	1502.4	99.5	
105	12.614	35.548	26.896	117.5	.196	1502.0	105.5	
111	12.522	35.533	26.902	117.0	.203	1501.7	111.5	
117	12.358	35.508	26.915	115.9	.210	1501.3	117.5	
123	12.243	35.493	26.926	115.0	.217	1500.9	123.5	
129	12.194	35.497	26.938	114.0	.224	1500.9	129.5	
135	12.161	35.498	26.945	113.5	.231	1500.9	135.5	
141	12.053	35.485	26.956	112.6	.238	1500.6	141.5	
147	11.969	35.478	26.967	111.7	.244	1500.4	147.5	
153	11.899	35.471	26.975	111.0	.251	1500.2	153.5	
159	11.837	35.465	26.982	110.5	.258	1500.1	159.5	
164	11.769	35.460	26.992	109.7	.264	1499.9	165.5	
170	11.700	35.460	27.004	108.7	.271	1499.8	171.5	
176	11.636	35.457	27.014	107.8	.277	1499.7	177.5	
182	11.582	35.460	27.026	106.8	.284	1499.6	183.5	
188	11.535	35.468	27.041	105.5	.290	1499.5	189.5	
194	11.468	35.468	27.054	104.4	.296	1499.4	195.5	
200	11.420	35.465	27.061	103.9	.303	1499.3	201.5	
206	11.344	35.458	27.070	103.2	.309	1499.1	207.5	
212	11.215	35.440	27.079	102.4	.315	1498.8	213.5	
218	11.017	35.432	27.109	99.6	.321	1498.2	219.5	
224	10.847	35.413	27.126	98.1	.327	1497.6	225.5	
230	10.704	35.383	27.128	98.0	.333	1497.2	231.5	
236	10.543	35.364	27.142	96.7	.339	1496.7	237.5	
242	10.424	35.350	27.152	95.9	.345	1496.3	243.5	
248	10.301	35.335	27.162	95.1	.350	1496.0	249.5	
254	10.174	35.318	27.171	94.3	.356	1495.6	255.5	
275	9.736	35.271	27.209	90.8	.376	1494.3	276.9	
300	9.260	35.219	27.248	87.5	.398	1492.9	302.1	
325	8.607	35.165	27.310	81.7	.419	1490.8	327.3	
350	7.963	35.127	27.380	75.1	.439	1488.7	352.5	
375	7.313	35.098	27.452	68.2	.457	1486.6	377.7	
400	6.866	35.090	27.509	62.9	.474	1485.2	402.9	
425	6.638	35.080	27.532	60.9	.489	1484.7	428.2	
450	6.177	35.058	27.576	56.8	.504	1483.3	453.4	
475	5.926	35.048	27.601	54.5	.518	1482.7	478.6	
500	5.757	35.054	27.627	52.2	.532	1482.4	503.9	
600	5.106	35.037	27.692	46.6	.582	1481.4	604.9	
700	4.723	35.032	27.733	43.3	.627	1481.5	705.9	
800	4.538	35.032	27.754	42.1	.670	1482.4	807.0	
900	4.379	35.024	27.765	41.8	.713	1483.3	908.1	
1000	4.179	35.012	27.777	41.3	.755	1484.2	1009.3	
1100	4.009	34.996	27.782	41.3	.797	1485.1	1110.5	
1200	3.890	34.980	27.782	41.9	.839	1486.3	1211.8	
1300	3.813	34.988	27.796	41.3	.881	1487.6	1313.1	
1400	3.740	34.987	27.803	41.3	.923	1489.0	1414.5	
1500	3.697	34.990	27.810	41.4	.965	1490.5	1515.9	
1600	3.656	34.993	27.816	41.5	1.007	1492.0	1617.4	
1700	3.584	34.995	27.825	41.2	1.049	1493.4	1718.9	
1800	3.479	34.991	27.833	40.9	1.090	1494.6	1820.4	
1900	3.425	34.991	27.838	40.9	1.132	1496.1	1922.0	
2000	3.411	34.991	27.839	41.5	1.174	1497.7	2023.7	
2077	3.335	35.009	27.861	39.7	1.206	1498.8	2102.0	
DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AM
7	21.370	35.415	5.45					
29	18.130	35.887	5.52					
260	10.120	35.286						
511		35.026						
997		34.987						
2087		34.973						

SIGMA-T

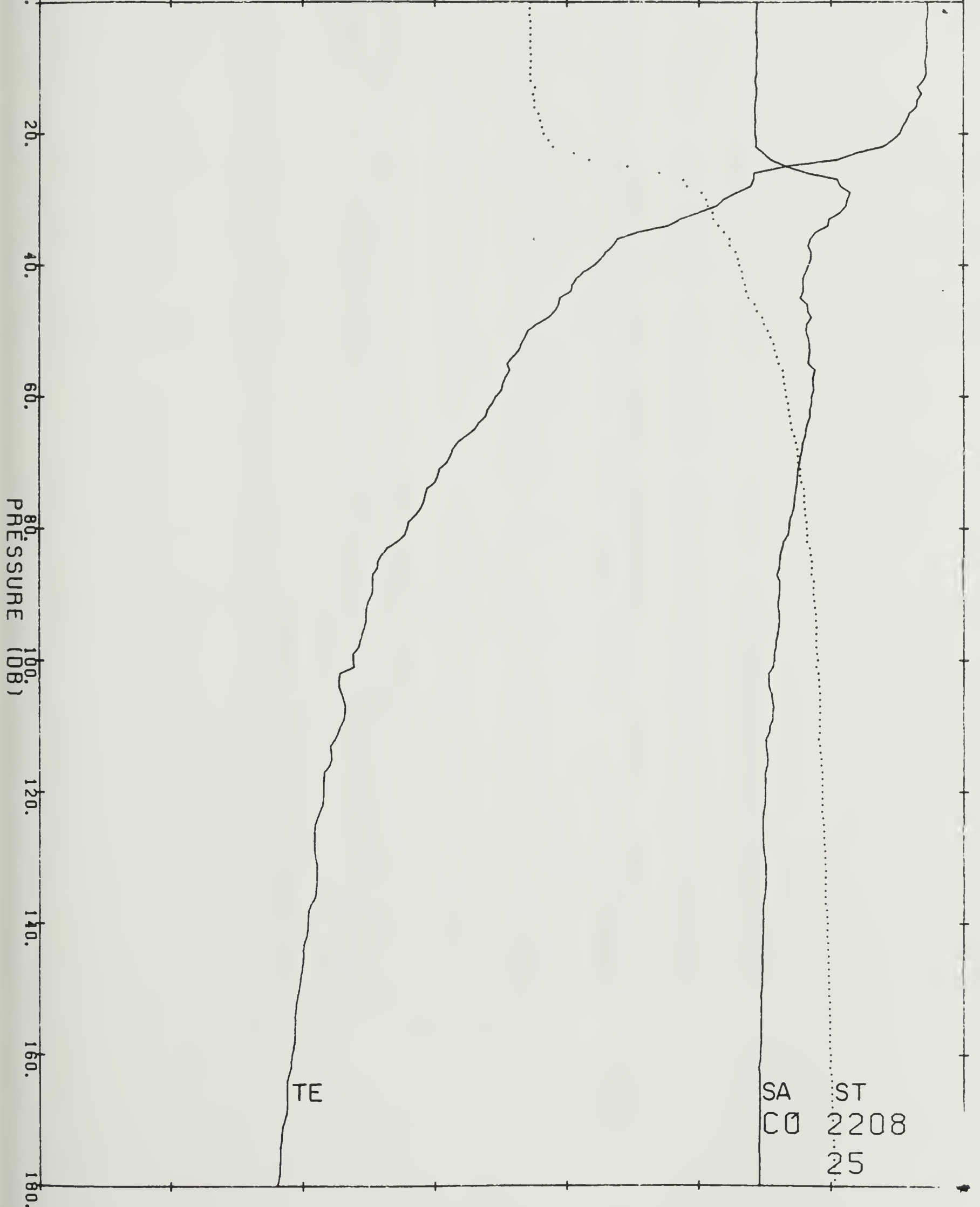
21. 22. 23. 24. 25. 26. 27. 28.

SALINITY (PPT)

30. 31. 32. 33. 34. 35. 36. 37.

TEMPERATURE (DEG C)

8. 10. 12. 14. 16. 18. 20. 22.



SHIP CO CRUISE 22-08 STATION 26 POSITION 37 57.40 N 73 37.60 W
 LOCAL TIME 735 DATE 79/ 6/19 WIND = DIR = DEPTH=1407M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	21.467	35.454	24.713	322.1	.000	1526.6	.0
5	21.468	35.450	24.709	322.6	.016	1526.7	5.0
10	21.449	35.449	24.714	322.4	.032	1526.7	10.0
15	21.465	35.447	24.708	323.1	.048	1526.8	14.9
20	21.390	35.465	24.743	320.0	.064	1526.7	19.9
25	19.343	35.640	25.423	255.4	.079	1521.5	24.9
30	18.160	35.841	25.878	212.3	.090	1518.4	29.9
35	17.753	35.854	25.988	201.9	.101	1517.4	34.9
40	16.853	35.810	26.172	184.6	.110	1514.7	39.9
45	16.242	35.779	26.292	173.4	.119	1512.9	44.9
50	16.187	35.899	26.397	163.6	.128	1513.0	49.9
55	15.886	35.907	26.473	156.5	.136	1512.2	54.9
60	15.619	35.913	26.538	150.4	.143	1511.4	59.9
65	15.330	35.897	26.591	145.5	.151	1510.6	64.9
70	14.942	35.874	26.660	139.1	.158	1509.4	69.9
75	14.840	35.857	26.669	138.4	.165	1509.2	74.9
80	14.422	35.812	26.725	133.2	.173	1507.9	80.9
85	14.068	35.764	26.764	129.6	.180	1506.7	85.9
90	13.750	35.703	26.784	127.8	.186	1505.7	90.9
95	13.519	35.694	26.825	124.0	.192	1505.0	95.9
100	13.324	35.654	26.834	123.3	.198	1504.4	100.9
105	12.958	35.601	26.868	120.2	.205	1503.2	105.9
110	12.856	35.576	26.869	120.2	.211	1502.9	110.9
115	12.746	35.571	26.887	118.6	.216	1502.6	115.9
120	12.782	35.604	26.905	117.0	.222	1502.9	120.9
125	12.660	35.583	26.913	116.3	.228	1502.5	125.9
130	12.667	35.600	26.925	115.3	.234	1502.6	130.9
135	12.588	35.587	26.931	114.9	.240	1502.4	135.9
140	12.345	35.533	26.937	114.4	.245	1501.6	140.9
145	12.217	35.518	26.950	113.3	.251	1501.2	145.9
150	12.141	35.506	26.956	112.9	.257	1501.0	150.9
155	12.168	35.521	26.962	112.4	.262	1501.2	155.9
160	12.060	35.500	26.967	112.0	.268	1500.9	160.9
165	11.977	35.503	26.985	110.4	.274	1500.7	165.9
170	11.913	35.495	26.991	109.9	.279	1500.6	170.9
175	11.838	35.504	27.012	108.0	.285	1500.4	175.9
180	11.772	35.498	27.020	107.4	.290	1500.3	180.9
185	11.672	35.485	27.029	106.6	.295	1500.0	185.9
190	11.553	35.476	27.044	105.3	.301	1499.6	190.9
195	11.409	35.460	27.059	104.0	.306	1499.2	195.9
200	11.296	35.449	27.071	102.9	.311	1498.9	200.9
225	10.629	35.373	27.134	97.3	.337	1496.8	226.9
250	9.982	35.295	27.186	92.7	.361	1494.8	251.9
275	9.339	35.222	27.237	88.0	.383	1492.8	276.9
300	8.629	35.161	27.304	81.8	.405	1490.4	301.9
325	8.147	35.125	27.350	77.6	.425	1489.0	326.9
350	7.761	35.107	27.394	73.7	.444	1487.9	352.9
375	7.343	35.087	27.439	69.5	.462	1486.7	377.9
400	6.930	35.076	27.489	64.9	.479	1485.4	402.9
425	6.638	35.068	27.522	61.8	.495	1484.7	427.9
450	6.284	35.060	27.563	58.0	.510	1483.7	452.9
475	5.948	35.054	27.602	54.4	.524	1482.8	478.9
500	5.738	35.047	27.623	52.5	.538	1482.3	503.9
600	5.108	35.039	27.694	46.4	.588	1481.4	604.9
700	4.719	35.031	27.732	43.3	.633	1481.4	705.9
800	4.339	35.002	27.752	41.9	.676	1481.5	806.9
900	4.206	34.993	27.759	42.0	.718	1482.6	907.9
1000	4.136	34.991	27.765	42.3	.761	1484.0	1008.9
1100	4.086	34.988	27.768	42.8	.804	1485.4	1110.9
1200	4.031	34.985	27.771	43.3	.848	1486.9	1211.9
1300	3.912	34.984	27.783	42.8	.891	1488.0	1312.9
1400	3.747	34.982	27.798	41.7	.935	1489.0	1414.9
1407	3.746	34.983	27.799	41.7	.937	1489.1	1421.9

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AM
23		35.421						
502		35.027						
749		35.000						
990		34.585						
1404		34.990						

SIGMA-T

21. 22. 23. 24. 25. 26. 27. 28.

SALINITY (PPT)

30. 31. 32. 33. 34. 35. 36. 37.

TEMPERATURE (DEG C)

8. 10. 12. 14. 16. 18. 20. 22.



SHIP CO CRUISE 22-08 STATION 27 POSITION 38 3.10 N 73 45.30 W
 LOCAL TIME 1116 DATE 79/ 6/19 WIND = DIR = DEPTH=1077M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	21.426	35.337	24.635	329.5	.000	1526.3	.0
5	21.412	35.337	24.639	329.3	.017	1526.4	5.0
10	21.409	35.335	24.638	329.6	.033	1526.5	10.0
15	21.410	35.335	24.638	329.8	.049	1526.5	14.9
20	21.403	35.333	24.638	329.9	.066	1526.6	19.9
25	21.399	35.335	24.641	329.8	.082	1526.7	24.9
30	19.118	35.588	25.442	253.8	.097	1520.9	29.9
35	17.470	35.702	25.941	206.4	.108	1516.4	34.9
40	16.765	35.925	26.281	174.3	.118	1514.6	39.9
45	16.470	35.910	26.339	168.9	.126	1513.8	44.9
50	15.373	35.767	26.481	155.5	.134	1510.3	49.9
55	14.726	35.729	26.595	144.8	.142	1508.3	54.9
60	14.428	35.699	26.637	141.0	.149	1507.4	59.9
65	13.858	35.646	26.717	133.4	.156	1505.6	64.9
70	13.804	35.667	26.745	130.9	.163	1505.5	69.9
75	13.621	35.661	26.778	127.9	.169	1505.0	74.9
80	13.345	35.614	26.799	126.1	.177	1504.1	80.9
85	13.143	35.583	26.816	124.5	.183	1503.5	85.9
90	13.025	35.576	26.835	122.9	.189	1503.2	90.9
95	13.043	35.622	26.867	120.0	.195	1503.4	95.9
100	13.162	35.662	26.874	119.5	.201	1503.9	100.9
105	13.042	35.639	26.880	119.0	.207	1503.5	105.9
110	12.870	35.613	26.895	117.7	.213	1503.0	110.9
115	12.846	35.618	26.903	117.0	.219	1503.0	115.9
120	12.647	35.578	26.912	116.3	.225	1502.4	120.9
125	12.206	35.505	26.942	113.5	.231	1500.9	125.9
130	12.119	35.476	26.937	114.1	.236	1500.6	130.9
135	12.106	35.480	26.942	113.7	.242	1500.7	135.9
140	12.066	35.480	26.950	113.1	.248	1500.6	140.9
145	12.016	35.477	26.957	112.5	.253	1500.5	145.9
150	12.009	35.480	26.961	112.3	.259	1500.6	150.9
155	12.077	35.504	26.966	111.9	.264	1500.9	155.9
160	11.968	35.487	26.974	111.3	.270	1500.6	160.9
165	11.900	35.483	26.984	110.5	.276	1500.4	165.9
170	11.772	35.462	26.992	109.8	.281	1500.0	170.9
175	11.712	35.455	26.998	109.3	.287	1499.9	175.9
180	11.635	35.446	27.006	108.7	.292	1499.7	180.9
185	11.607	35.445	27.010	108.4	.297	1499.7	185.9
190	11.623	35.456	27.016	108.0	.303	1499.8	190.9
195	11.537	35.447	27.025	107.2	.308	1499.6	195.9
200	11.531	35.453	27.031	106.8	.314	1499.7	200.9
225	11.141	35.419	27.077	102.9	.341	1498.7	226.9
250	10.481	35.352	27.143	96.9	.366	1496.7	251.9
275	9.706	35.264	27.209	90.9	.389	1494.2	276.9
300	8.537	35.144	27.305	81.6	.411	1490.1	301.9
325	7.880	35.111	27.379	74.7	.430	1487.9	326.9
350	7.465	35.091	27.425	70.5	.449	1486.7	352.9
375	6.768	35.070	27.506	62.7	.466	1484.4	377.9
400	6.240	35.043	27.556	58.0	.481	1482.7	402.9
425	5.918	35.032	27.589	54.9	.495	1481.8	427.9
450	5.689	35.025	27.612	52.8	.509	1481.3	452.9
475	5.454	35.019	27.636	50.7	.522	1480.7	478.9
500	5.353	35.015	27.645	50.0	.535	1480.7	503.9
600	4.918	35.007	27.691	46.4	.583	1480.6	604.9
700	4.717	35.005	27.712	45.2	.630	1481.4	705.9
800	4.533	35.003	27.731	44.2	.675	1482.3	806.9
900	4.388	34.997	27.742	43.9	.719	1483.3	907.9
1000	4.173	34.991	27.761	42.7	.763	1484.1	1008.9
1077	4.101	34.989	27.767	42.7	.796	1485.1	1086.9

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AM
7		35.312						
122		35.563						
505		34.991						
1069		34.990						

151

SIGMA-T

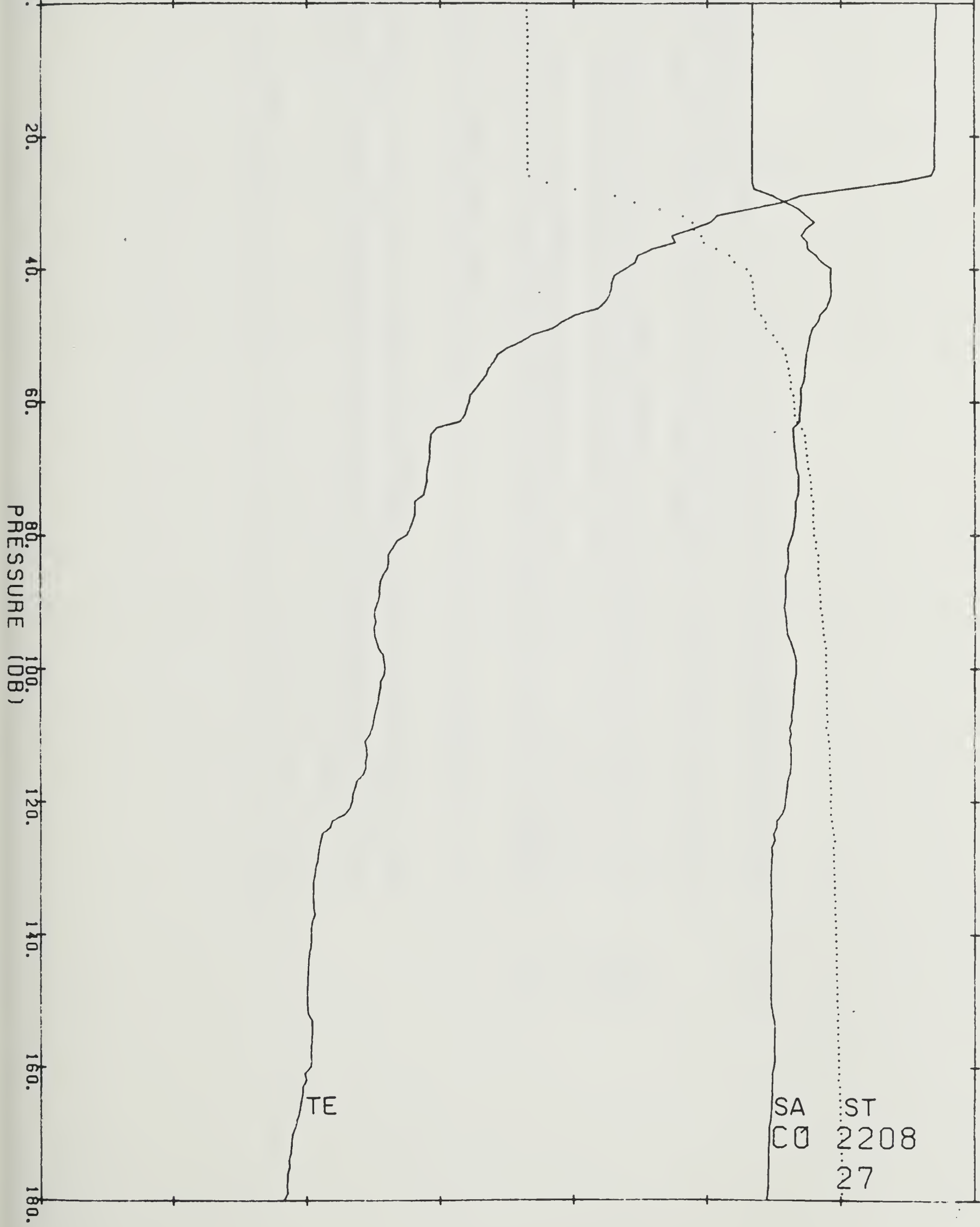
21. 22. 23. 24. 25. 26. 27. 28.

SALINITY (PPT)

30. 31. 32. 33. 34. 35. 36. 37.

TEMPERATURE (DEG C)

8. 10. 12. 14. 16. 18. 20. 22.



SHIP CO CRUISE 22-08 STATION 28 POSITION 38 5.50 N 73 48.00 W
 LOCAL TIME 1550 DATE 79/ 6/19 WIND = DIR = DEPTH= 767M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	21.202	35.177	24.575	335.2	.000	1525.6	.0
5	21.244	35.179	24.565	336.4	.017	1525.8	5.0
10	21.245	35.177	24.563	336.7	.034	1525.8	10.0
15	21.232	35.177	24.567	336.6	.051	1525.9	15.0
20	21.128	35.179	24.597	333.9	.067	1525.7	20.0
25	18.336	35.506	25.577	240.7	.082	1518.5	25.0
30	16.823	35.615	26.030	197.8	.093	1514.3	30.0
35	15.956	35.704	26.300	172.3	.102	1511.8	35.0
40	15.531	35.702	26.396	163.3	.110	1510.6	40.0
45	15.185	35.662	26.442	159.0	.118	1509.5	45.0
50	14.730	35.611	26.503	153.4	.126	1508.1	50.0
55	14.362	35.598	26.573	146.9	.134	1507.0	55.0
60	13.756	35.547	26.662	138.5	.141	1505.0	60.0
65	13.771	35.579	26.684	136.6	.148	1505.2	65.0
70	13.499	35.564	26.729	132.5	.154	1504.4	70.0
75	13.299	35.560	26.767	129.0	.161	1503.8	75.0
80	13.240	35.545	26.767	129.0	.167	1503.7	80.0
85	12.980	35.511	26.794	126.6	.174	1502.8	85.0
90	12.974	35.509	26.793	126.8	.180	1502.9	90.0
95	12.552	35.466	26.844	122.1	.188	1501.5	96.0
100	12.574	35.476	26.848	121.9	.194	1501.7	101.0
105	12.502	35.489	26.872	119.7	.200	1501.5	106.0
110	12.455	35.484	26.877	119.3	.206	1501.4	111.0
115	12.324	35.468	26.891	118.2	.212	1501.1	116.0
120	12.289	35.466	26.896	117.8	.217	1501.0	121.0
125	12.244	35.461	26.901	117.4	.223	1500.9	126.0
130	12.141	35.450	26.912	116.5	.229	1500.7	131.0
135	12.130	35.449	26.914	116.4	.235	1500.7	136.0
140	12.086	35.448	26.921	115.8	.241	1500.6	141.0
145	12.014	35.452	26.938	114.3	.247	1500.5	146.0
150	11.991	35.453	26.943	114.0	.252	1500.5	151.0
155	11.843	35.450	26.969	111.6	.258	1500.0	156.0
160	11.725	35.441	26.985	110.2	.263	1499.7	161.0
165	11.630	35.430	26.994	109.4	.269	1499.4	166.0
170	11.538	35.426	27.008	108.2	.274	1499.2	171.0
175	11.503	35.427	27.016	107.6	.280	1499.2	176.0
180	11.403	35.425	27.033	106.1	.285	1498.9	181.0
185	11.290	35.422	27.052	104.4	.290	1498.6	186.0
190	11.244	35.427	27.064	103.3	.296	1498.5	191.0
195	11.128	35.410	27.072	102.6	.301	1498.1	196.0
200	11.002	35.397	27.085	101.5	.306	1497.8	201.0
225	10.561	35.357	27.133	97.3	.331	1496.5	226.0
250	10.176	35.318	27.170	94.2	.356	1495.5	252.0
275	9.560	35.267	27.236	88.3	.378	1493.6	277.0
300	8.259	35.163	27.363	76.0	.399	1489.0	302.0
325	7.312	35.114	27.465	66.2	.417	1485.8	327.0
350	6.878	35.101	27.516	61.5	.433	1484.4	352.0
375	6.607	35.086	27.541	59.3	.448	1483.8	378.0
400	6.199	35.069	27.582	55.5	.463	1482.5	403.0
425	5.860	35.050	27.610	52.8	.476	1481.6	428.0
450	5.548	35.033	27.636	50.5	.489	1480.7	453.0
475	5.408	35.029	27.650	49.3	.502	1480.5	479.0
500	5.350	35.025	27.654	49.2	.515	1480.7	504.0
600	4.877	35.011	27.698	45.6	.562	1480.4	605.0
700	4.716	35.007	27.714	45.1	.608	1481.4	706.0
767	4.539	35.003	27.730	44.0	.638	1481.8	773.9

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AM
8		35.135	5.41					
112		35.451	4.93					
413		35.038	3.79					
758		34.993	5.61					

SIGMA-T

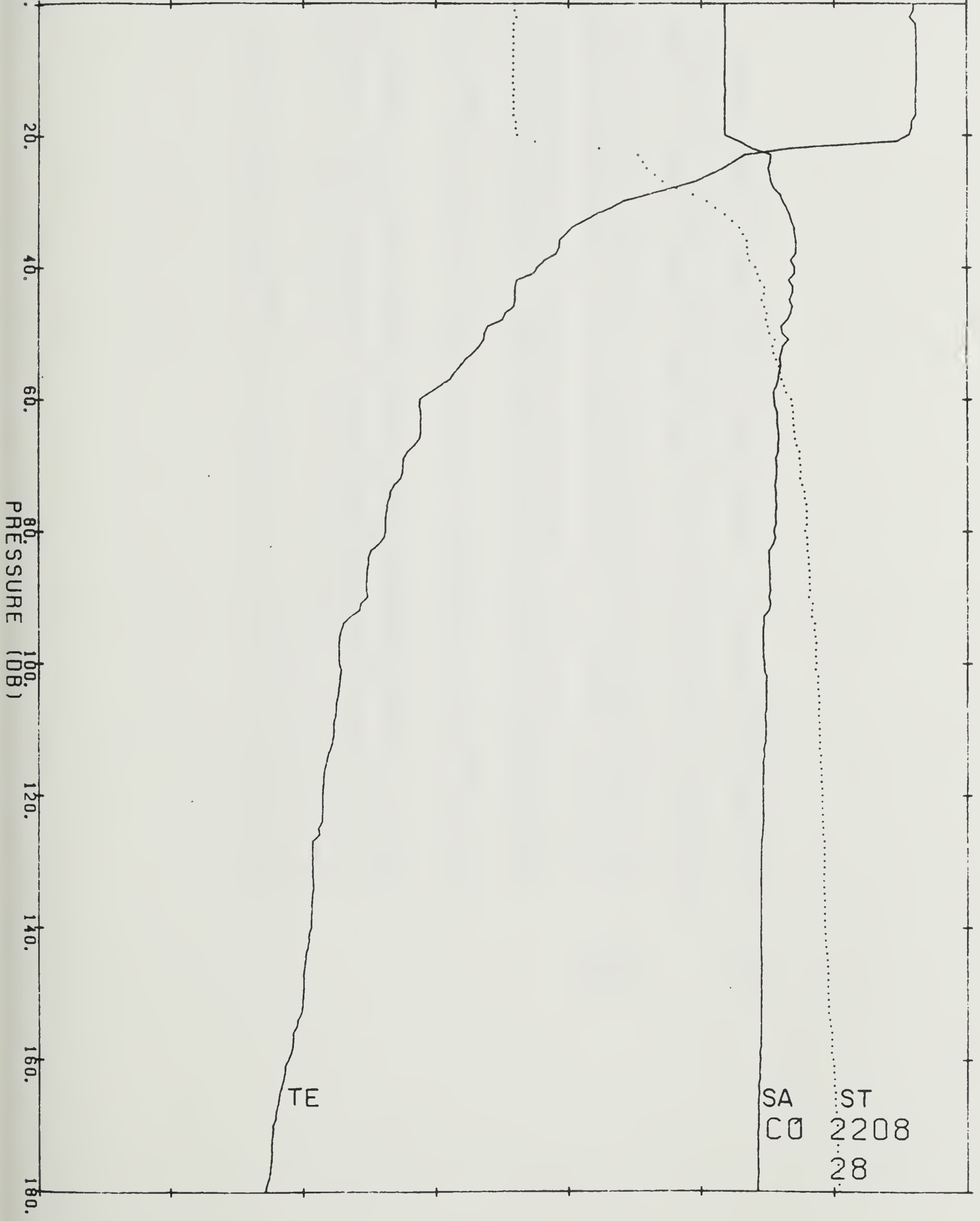
21. 22. 23. 24. 25. 26. 27. 28.

SALINITY (PPT)

30. 31. 32. 33. 34. 35. 36. 37.

TEMPERATURE (DEG C)

8. 10. 12. 14. 16. 18. 20. 22.



TE

SA ST
CO 2208
28

SHIP CO CRUISE 22-08 STATION 29 POSITION 38 7.99 N 73 50.86 W
 LDCAL TIME 1835 DATE 79/ 6/19 WIND = DIR = DEPTH= 602M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	21.047	35.143	24.591	333.7	.000	1525.1	.0
5	21.069	35.129	24.575	335.4	.017	1525.2	5.0
10	21.083	35.134	24.575	335.6	.034	1525.4	10.0
15	21.060	35.138	24.584	334.9	.050	1525.4	15.0
20	20.867	35.118	24.621	331.6	.067	1524.9	20.0
25	18.614	35.419	25.441	253.7	.082	1519.2	25.0
30	18.403	35.469	25.532	245.2	.094	1518.7	30.0
35	17.064	35.383	25.794	220.4	.106	1514.8	35.0
40	15.934	35.521	26.165	185.3	.116	1511.6	40.0
45	15.122	35.498	26.330	169.7	.125	1509.1	45.0
50	14.306	35.419	26.447	158.7	.133	1506.5	50.0
55	13.984	35.436	26.528	151.1	.141	1505.6	55.0
60	14.051	35.559	26.609	143.5	.148	1506.0	60.0
65	13.591	35.534	26.686	136.3	.155	1504.6	65.0
70	13.585	35.552	26.702	135.0	.162	1504.6	70.0
75	13.336	35.544	26.747	130.9	.169	1503.9	75.0
80	13.230	35.544	26.768	128.9	.175	1503.6	80.0
85	13.005	35.527	26.801	125.9	.181	1502.9	85.0
90	12.901	35.513	26.811	125.1	.188	1502.6	90.0
95	12.697	35.502	26.843	122.2	.195	1502.0	96.0
100	12.517	35.478	26.860	120.7	.201	1501.5	101.0
105	12.440	35.475	26.873	119.6	.207	1501.3	106.0
110	12.408	35.472	26.877	119.3	.213	1501.3	111.0
115	12.349	35.468	26.886	118.6	.219	1501.1	116.0
120	12.273	35.449	26.886	118.7	.225	1500.9	121.0
125	12.228	35.447	26.893	118.2	.231	1500.9	126.0
130	12.187	35.455	26.907	116.9	.237	1500.8	131.0
135	12.176	35.456	26.910	116.8	.243	1500.9	136.0
140	12.116	35.455	26.921	115.9	.248	1500.7	141.0
145	12.018	35.460	26.944	113.8	.254	1500.5	146.0
150	11.967	35.462	26.955	112.9	.260	1500.4	151.0
155	11.883	35.458	26.968	111.7	.265	1500.2	156.0
160	11.778	35.454	26.985	110.2	.271	1499.9	161.0
165	11.731	35.451	26.991	109.7	.277	1499.8	166.0
170	11.651	35.448	27.004	108.6	.282	1499.6	171.0
175	11.589	35.451	27.018	107.4	.287	1499.5	176.0
180	11.516	35.447	27.029	106.5	.293	1499.3	181.0
185	11.462	35.441	27.034	106.1	.298	1499.2	186.0
190	11.453	35.441	27.036	106.0	.303	1499.2	191.0
195	11.453	35.441	27.036	106.1	.309	1499.3	196.0
200	11.431	35.440	27.039	106.0	.314	1499.3	201.0
225	11.254	35.427	27.062	104.3	.340	1499.1	226.0
250	10.252	35.334	27.170	94.3	.366	1495.8	252.0
275	9.506	35.268	27.245	87.3	.389	1493.4	277.0
300	8.632	35.210	27.342	78.2	.409	1490.5	302.0
325	7.829	35.137	27.407	72.0	.428	1487.8	327.0
350	7.316	35.104	27.456	67.4	.446	1486.2	352.0
375	6.809	35.094	27.520	61.5	.462	1484.6	378.0
400	6.266	35.082	27.583	55.4	.477	1482.8	403.0
425	5.956	35.064	27.609	53.0	.491	1482.0	428.0
450	5.683	35.049	27.632	51.0	.504	1481.3	453.0
475	5.582	35.044	27.640	50.4	.517	1481.3	479.0
500	5.271	35.019	27.658	48.7	.529	1480.4	504.0
600	4.830	35.011	27.704	45.1	.577	1480.2	605.0
602	4.866	35.007	27.697	45.8	.577	1480.4	606.9

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AM
53		35.057						
124		35.498						
231		35.442						
602		35.392						

SIGMA-T

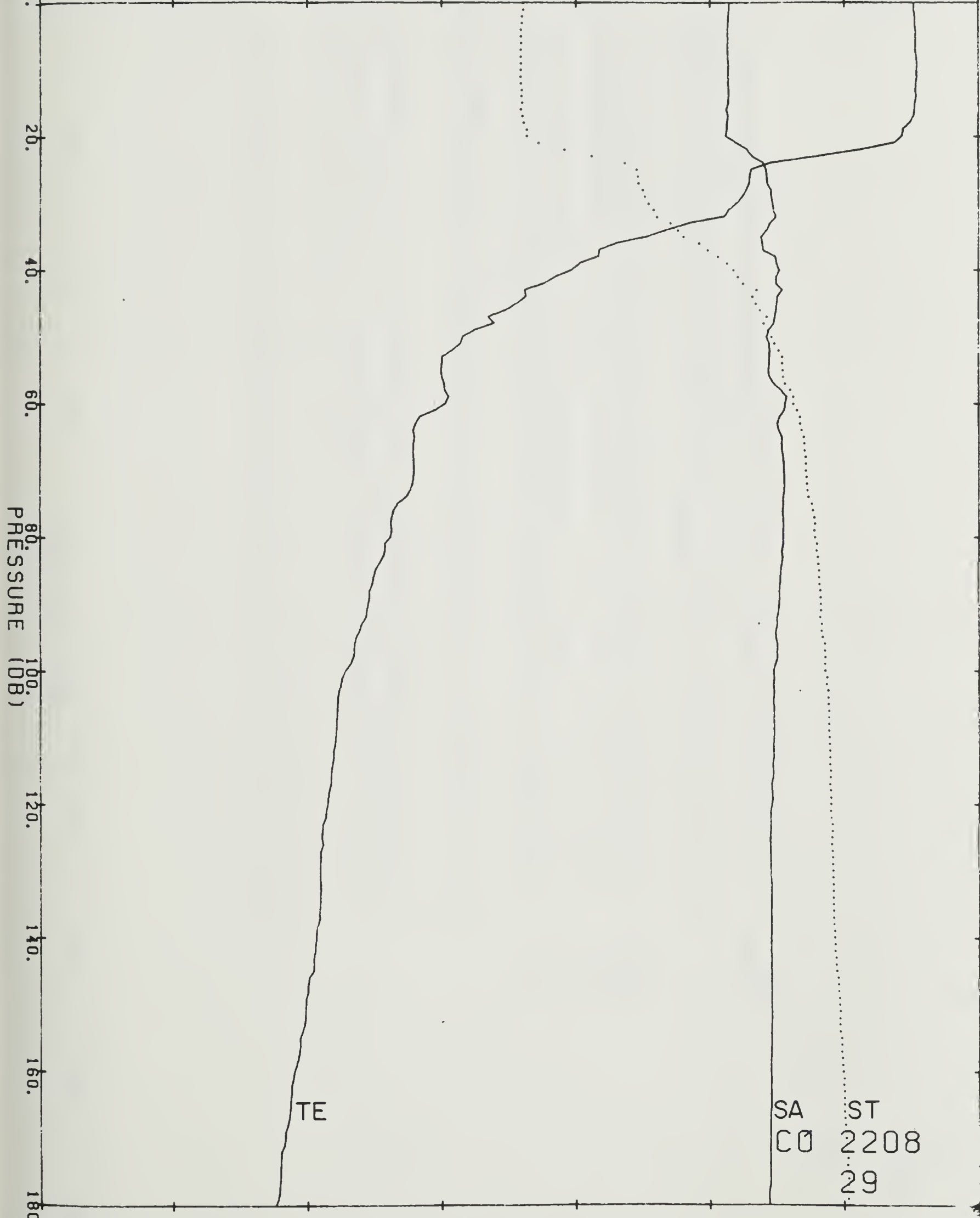
21. 22. 23. 24. 25. 26. 27. 28.

SALINITY (PPT)

30. 31. 32. 33. 34. 35. 36. 37.

TEMPERATURE (DEG C)

8. 10. 12. 14. 16. 18. 20. 22.



SHIP CO CRUISE 22-08 STATION 30 POSITION 38 9.55 N 73 51.10 W
 LOCAL TIME 2106 DATE 79/ 6/19 WIND = DIR = DEPTH= 517M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	20.866	35.005	24.535	339.0	.000	1524.5	.0
5	20.899	35.002	24.524	340.3	.017	1524.6	5.0
10	20.892	34.998	24.523	340.5	.034	1524.7	10.0
15	20.925	35.000	24.516	341.4	.051	1524.9	14.9
20	20.870	34.996	24.527	340.5	.068	1524.8	19.9
25	17.813	35.090	25.388	258.7	.083	1516.5	24.9
30	16.093	35.245	25.916	208.6	.094	1511.6	29.9
35	15.353	35.368	26.178	183.8	.104	1509.5	34.9
40	14.440	35.345	26.361	166.6	.113	1506.7	39.9
45	13.535	35.628	26.771	127.8	.120	1504.2	44.9
50	13.520	35.628	26.774	127.6	.127	1504.2	49.9
55	13.520	35.626	26.772	127.9	.133	1504.3	54.9
60	13.520	35.624	26.771	128.2	.140	1504.4	59.9
65	13.520	35.621	26.768	128.5	.146	1504.4	64.9
70	13.520	35.619	26.767	128.8	.152	1504.5	69.9
75	13.520	35.617	26.765	129.1	.159	1504.6	74.9
80	13.520	35.615	26.764	129.4	.167	1504.7	80.9
85	13.490	35.603	26.761	129.8	.173	1504.7	85.9
90	13.284	35.582	26.787	127.5	.180	1504.0	90.9
95	13.220	35.574	26.794	127.0	.186	1503.9	95.9
100	13.118	35.566	26.808	125.7	.192	1503.6	100.9
105	12.942	35.550	26.832	123.6	.198	1503.1	105.9
110	12.897	35.544	26.836	123.3	.205	1503.0	110.9
115	12.829	35.538	26.845	122.6	.211	1502.9	115.9
120	12.737	35.526	26.854	121.8	.217	1502.6	120.9
125	12.692	35.514	26.854	122.0	.223	1502.5	125.9
130	12.663	35.536	26.877	119.9	.229	1502.5	130.9
135	12.611	35.538	26.888	118.9	.235	1502.4	135.9
140	12.289	35.464	26.894	118.4	.241	1501.3	140.9
145	12.208	35.458	26.905	117.5	.247	1501.1	145.9
150	12.159	35.464	26.920	116.3	.253	1501.1	150.9
155	12.138	35.471	26.929	115.5	.258	1501.1	155.9
160	12.150	35.472	26.928	115.8	.264	1501.2	160.9
165	12.155	35.480	26.933	115.4	.270	1501.3	165.9
170	12.124	35.480	26.939	114.9	.276	1501.3	170.9
175	12.060	35.474	26.946	114.3	.282	1501.1	175.9
180	12.081	35.477	26.945	114.6	.287	1501.3	180.9
185	12.008	35.477	26.959	113.4	.293	1501.1	185.9
190	11.916	35.470	26.971	112.3	.299	1500.9	190.9
195	11.857	35.464	26.978	111.8	.304	1500.8	195.9
200	11.818	35.454	26.977	112.0	.310	1500.7	200.9
225	11.408	35.427	27.034	107.1	.338	1499.6	226.9
250	10.835	35.384	27.105	100.7	.364	1498.0	251.9
275	9.791	35.299	27.222	89.7	.388	1494.5	276.9
300	9.330	35.264	27.271	85.3	.410	1493.2	301.9
325	8.222	35.190	27.390	73.9	.430	1489.3	326.9
350	7.752	35.160	27.437	69.6	.448	1487.9	352.9
375	7.220	35.137	27.496	64.0	.465	1486.3	377.9
400	6.721	35.094	27.532	60.7	.481	1484.6	402.9
425	5.965	35.066	27.610	53.0	.495	1482.0	427.9
450	5.620	35.036	27.629	51.1	.508	1481.0	452.9
475	5.375	35.038	27.661	48.3	.521	1480.4	478.9
500	5.261	35.034	27.672	47.4	.533	1480.4	503.9
517	5.322	35.032	27.663	48.6	.541	1480.9	520.8

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AM
22		35.813	5.57					
126		35.580	4.66					
260		35.362	3.87					
514		35.039	5.21					

SIGMA-T

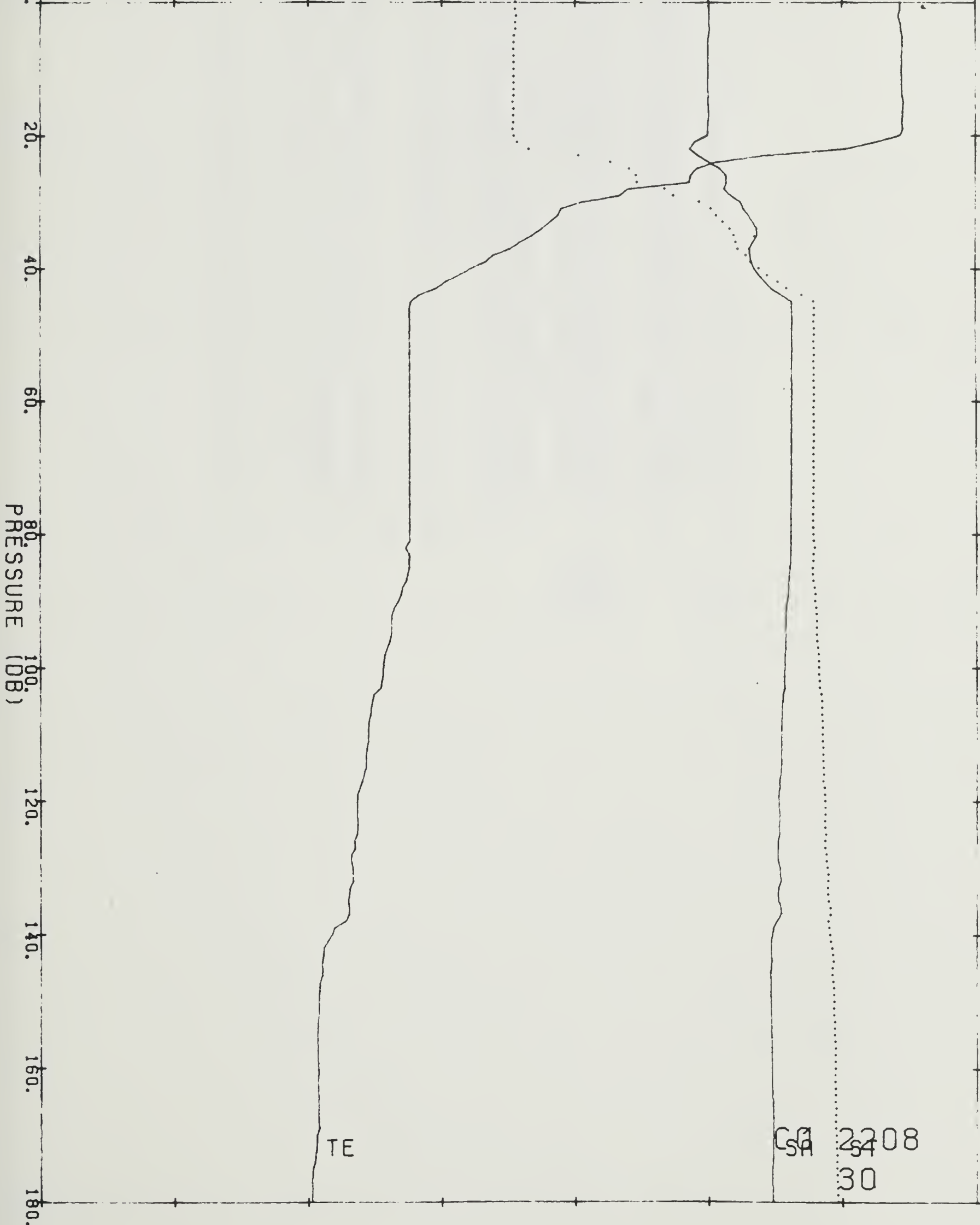
21. 22. 23. 24. 25. 26. 27. 28.

SALINITY (PPT)

30. 31. 32. 33. 34. 35. 36. 37.

TEMPERATURE (DEG C)

8. 10. 12. 14. 16. 18. 20. 22.



SHIP CO CRUISE 22-08 STATION 31 POSITION 38 14.00 N 73 50.50 W
 LOCAL TIME 233 DATE 79/ 6/20 WIND = DIR = DEPTH= 151M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	18.538	33.559	24.037	386.5	.000	1516.3	.0
5	18.577	33.550	24.020	388.3	.019	1516.5	5.0
10	18.629	33.557	24.013	389.1	.039	1516.8	10.0
15	18.592	34.083	24.424	350.1	.057	1517.4	14.9
20	11.746	33.180	25.224	273.9	.073	1494.6	19.9
25	5.927	32.981	25.967	203.1	.085	1472.5	24.9
30	5.337	33.054	26.095	191.0	.094	1470.3	29.9
35	5.226	33.082	26.129	187.7	.104	1470.0	34.9
40	5.932	33.289	26.209	180.3	.113	1473.2	39.9
45	6.737	33.475	26.253	176.3	.122	1476.7	44.9
50	6.744	33.459	26.240	177.6	.131	1476.8	49.9
55	7.618	33.713	26.319	170.3	.139	1480.7	54.9
60	8.000	33.802	26.333	169.0	.148	1482.3	59.9
65	8.831	34.021	26.378	164.9	.156	1485.9	64.9
70	8.891	34.033	26.379	165.0	.165	1486.2	69.9
75	9.717	34.340	26.485	155.2	.173	1489.7	74.9
80	9.813	34.541	26.626	142.0	.181	1490.4	80.9
85	10.587	34.770	26.671	137.9	.188	1493.6	85.9
90	11.203	34.997	26.737	131.9	.195	1496.2	90.9
95	11.057	34.983	26.752	130.5	.202	1495.7	95.9
100	11.269	35.086	26.794	126.7	.208	1496.7	100.9
105	11.677	35.250	26.845	122.1	.214	1498.4	105.9
110	11.794	35.268	26.837	123.0	.221	1498.9	110.9
115	11.847	35.292	26.846	122.3	.227	1499.2	115.9
120	12.110	35.389	26.871	120.1	.233	1500.3	120.9
125	12.188	35.430	26.887	118.7	.239	1500.7	125.9
130	12.190	35.427	26.885	119.0	.245	1500.8	130.9
135	12.176	35.438	26.896	118.1	.251	1500.8	135.9
140	12.171	35.443	26.901	117.8	.257	1500.9	140.9
145	12.090	35.469	26.937	114.5	.262	1500.7	145.9
150	12.063	35.451	26.928	115.4	.268	1500.7	150.9
151	12.048	35.454	26.933	115.0	.269	1500.7	151.9

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AM
6		35.498						
38		33.051						
124		33.546						
140		35.432						

SIGMA-T

21. 22. 23. 24. 25. 26. 27. 28.

SALINITY (PPT)

30. 31. 32. 33. 34. 35. 36. 37.

TEMPERATURE (DEG C)

8. 10. 12. 14. 16. 18. 20. 22.



C0 2208

31

SHIP CO CRUISE 22-08 STATION 32 POSITION 38 19.30 N 73 50.00 W
 LOCAL TIME 813 DATE 79/ 6/20 WIND = DIR = DEPTH= 78M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	19.421	33.382	23.679	420.7	.000	1518.6	.0
5	19.398	33.372	23.677	421.0	.021	1518.6	5.0
10	19.448	33.411	23.694	419.6	.042	1518.9	10.0
15	19.416	33.797	23.997	390.8	.062	1519.3	14.9
20	12.472	33.222	25.119	283.9	.079	1497.2	19.9
25	6.465	32.940	25.867	212.6	.091	1474.6	24.9
30	5.757	33.085	26.069	193.4	.101	1472.0	29.9
35	5.491	33.058	26.080	192.5	.111	1471.0	34.9
40	5.245	33.066	26.115	189.2	.121	1470.1	39.9
45	5.222	33.072	26.122	188.5	.130	1470.1	44.9
50	5.726	33.248	26.202	181.1	.139	1472.5	49.9
55	6.700	33.486	26.267	175.1	.148	1476.8	54.9
60	6.897	33.522	26.269	175.0	.157	1477.7	59.9
65	7.430	33.659	26.303	171.9	.166	1480.0	64.9
70	7.900	33.853	26.388	164.0	.174	1482.2	69.9
75	7.327	33.736	26.378	164.9	.182	1479.9	74.9
78	7.315	33.741	26.384	164.4	.187	1479.9	77.9

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AM
2		34.171						
29		34.224						
78		33.803						

SIGMA-T

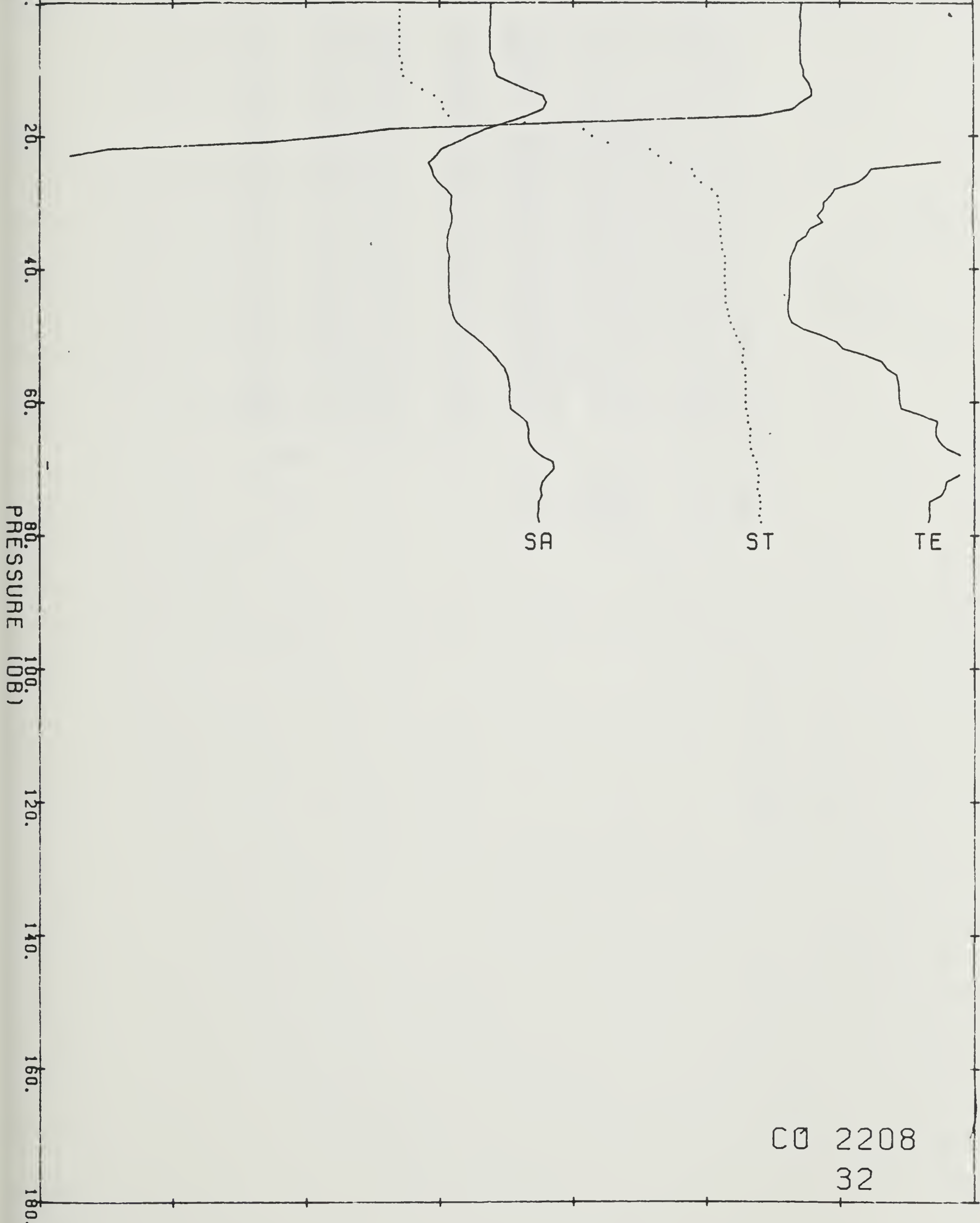
21. 22. 23. 24. 25. 26. 27. 28.

SALINITY (PPT)

30. 31. 32. 33. 34. 35. 36. 37.

TEMPERATURE (DEG C)

80. 10. 12. 14. 16. 18. 20. 22.



C0 2208
32

SHIP CO CRUISE 22-08 STATION 33 POSITION 38 8.50 N 73 53.00 W
 LOCAL TIME 807 DATE 79/ 6/20 WIND = DIR = 'DEPTH= 119M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	20.718	35.010	24.579	334.9	.000	1524.1	.0
5	20.706	35.066	24.625	330.7	.017	1524.2	5.0
10	20.896	35.147	24.635	329.9	.033	1524.9	10.0
15	20.341	34.990	24.665	327.2	.049	1523.3	14.9
20	16.119	34.232	25.131	282.9	.065	1510.3	19.9
25	11.030	33.350	25.486	249.1	.078	1492.4	24.9
30	7.179	33.071	25.875	211.9	.089	1477.7	29.9
35	7.428	33.321	26.038	196.6	.100	1479.1	34.9
40	5.884	33.121	26.082	192.3	.109	1472.8	39.9
45	6.156	33.385	26.257	175.8	.119	1474.3	44.9
50	7.248	33.580	26.266	175.1	.127	1479.0	49.9
55	8.674	33.902	26.310	171.2	.136	1485.0	54.9
60	10.207	34.662	26.653	139.0	.144	1491.7	59.9
65	13.670	35.340	26.520	152.1	.151	1504.6	64.9
70	11.460	34.809	26.543	149.8	.159	1496.5	69.9
75	11.976	35.044	26.628	141.9	.166	1498.7	74.9
80	11.090	34.787	26.594	145.2	.174	1495.3	80.9
85	10.492	34.695	26.629	141.9	.182	1493.2	85.9
90	10.672	34.801	26.680	137.2	.189	1494.0	90.9
95	11.570	35.187	26.817	124.5	.195	1497.8	95.9
100	12.290	35.367	26.819	124.6	.201	1500.6	100.9
105	12.397	35.433	26.849	121.8	.208	1501.1	105.9
110	12.406	35.437	26.850	121.8	.214	1501.2	110.9
115	12.446	35.447	26.850	122.0	.220	1501.4	115.9
118	12.450	35.447	26.849	122.1	.223	1501.5	118.9

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AM
9		34.997	5.48					
53		33.831	6.34					
99		35.300	4.71					
119		35.417	4.68					

SIGMA-T

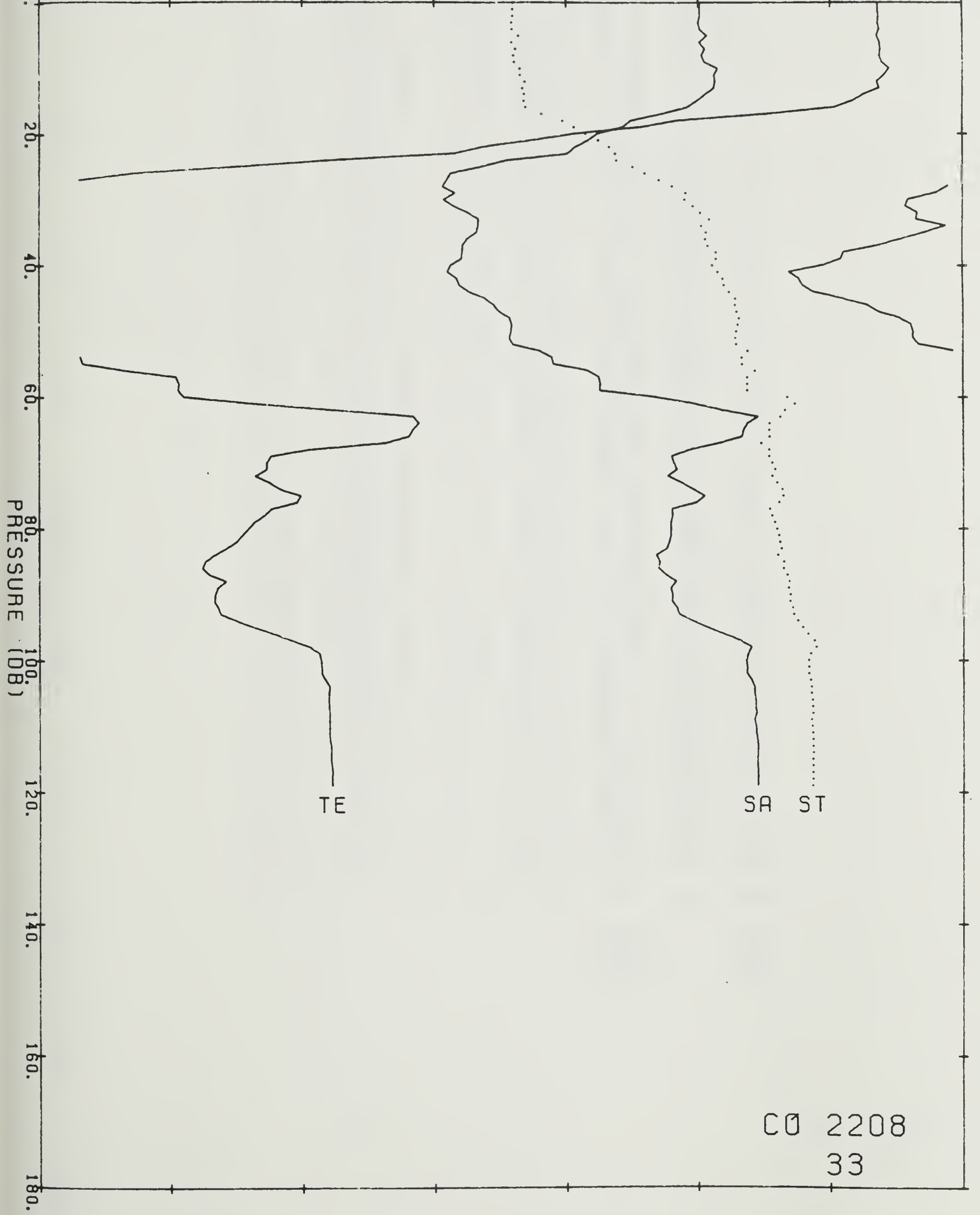
21. 22. 23. 24. 25. 26. 27. 28.

SALINITY (PPT)

30. 31. 32. 33. 34. 35. 36. 37.

TEMPERATURE (DEG C)

8. 10. 12. 14. 16. 18. 20. 22.



C0 2208
33

SHIP CO CRUISE 22-08 STATION 34 POSITION 38 9.29 N 73 50.09 W
 LOCAL TIME 2347 DATE 79/ 6/20 WIND = DIR = DEPTH= 624M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	20.801	35.120	24.641	329.0	.000	1524.4	.0
5	20.781	35.115	24.642	329.0	.017	1524.5	5.0
10	20.866	35.139	24.637	329.6	.033	1524.8	10.0
15	20.807	35.108	24.630	330.5	.049	1524.7	14.9
20	20.627	35.140	24.703	323.8	.066	1524.3	19.9
25	18.669	34.481	24.709	323.3	.082	1518.2	24.9
30	16.962	35.299	25.754	224.0	.095	1514.3	29.9
35	16.305	35.274	25.889	211.3	.106	1512.4	34.9
40	15.160	35.104	26.018	199.2	.117	1508.7	39.9
45	9.814	33.799	26.046	196.2	.126	1488.9	44.9
50	8.379	33.780	26.259	175.9	.136	1483.6	49.9
55	10.864	34.610	26.497	153.7	.144	1493.9	54.9
60	10.269	34.349	26.398	163.2	.152	1491.5	59.9
65	9.498	34.272	26.468	156.6	.160	1488.7	64.9
70	10.822	34.667	26.549	149.2	.168	1494.1	69.9
75	10.858	34.660	26.537	150.4	.175	1494.3	74.9
80	10.789	34.720	26.596	144.9	.184	1494.2	80.9
85	11.532	34.960	26.647	140.3	.191	1497.2	85.9
90	11.687	35.064	26.699	135.6	.198	1497.9	90.9
95	11.777	35.090	26.702	135.4	.205	1498.4	95.9
100	11.744	35.083	26.703	135.4	.211	1498.3	100.9
105	11.790	35.117	26.721	133.9	.218	1498.6	105.9
110	11.690	35.096	26.723	133.7	.225	1498.3	110.9
115	11.709	35.171	26.778	128.7	.231	1498.6	115.9
120	11.834	35.292	26.848	122.2	.238	1499.2	120.9
125	11.957	35.370	26.885	118.8	.244	1499.8	125.9
130	11.957	35.388	26.899	117.6	.250	1499.9	130.9
135	11.937	35.392	26.906	117.1	.255	1500.0	135.9
140	11.926	35.393	26.909	116.9	.261	1500.0	140.9
145	11.925	35.395	26.911	116.9	.267	1500.1	145.9
150	11.935	35.404	26.916	116.5	.273	1500.2	150.9
155	11.973	35.421	26.922	116.1	.279	1500.4	155.9
160	11.972	35.423	26.924	116.1	.285	1500.5	160.9
165	11.961	35.422	26.925	116.1	.290	1500.6	165.9
170	11.980	35.427	26.925	116.2	.296	1500.7	170.9
175	11.991	35.432	26.927	116.1	.302	1500.8	175.9
180	11.984	35.436	26.932	115.8	.308	1500.9	180.9
185	11.893	35.433	26.947	114.5	.314	1500.7	185.9
190	11.853	35.404	26.932	116.0	.319	1500.6	190.9
195	11.744	35.425	26.969	112.6	.325	1500.3	195.9
200	11.725	35.427	26.974	112.2	.331	1500.3	200.9
225	11.359	35.426	27.042	106.3	.359	1499.5	226.9
250	11.020	35.400	27.084	102.8	.385	1498.7	251.9
275	10.366	35.342	27.156	96.2	.410	1496.7	276.9
300	9.479	35.243	27.230	89.2	.433	1493.7	301.9
325	8.448	35.202	27.364	76.5	.454	1490.2	326.9
350	7.886	35.173	27.427	70.6	.473	1488.5	352.9
375	6.985	35.121	27.517	61.9	.490	1485.3	377.9
400	6.466	35.091	27.564	57.4	.505	1483.6	402.9
425	6.267	35.080	27.582	55.9	.519	1483.2	427.9
450	5.873	35.059	27.616	52.7	.532	1482.0	452.9
475	5.592	35.047	27.641	50.3	.546	1481.3	478.9
500	5.304	35.034	27.666	48.0	.558	1480.5	503.9
600	4.894	35.003	27.690	46.4	.606	1480.5	604.9
624	4.811	35.008	27.704	45.3	.617	1480.5	628.8

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AM
20		35.092						
130		35.341						
400		35.073						
622		35.000						

SIGMA-T

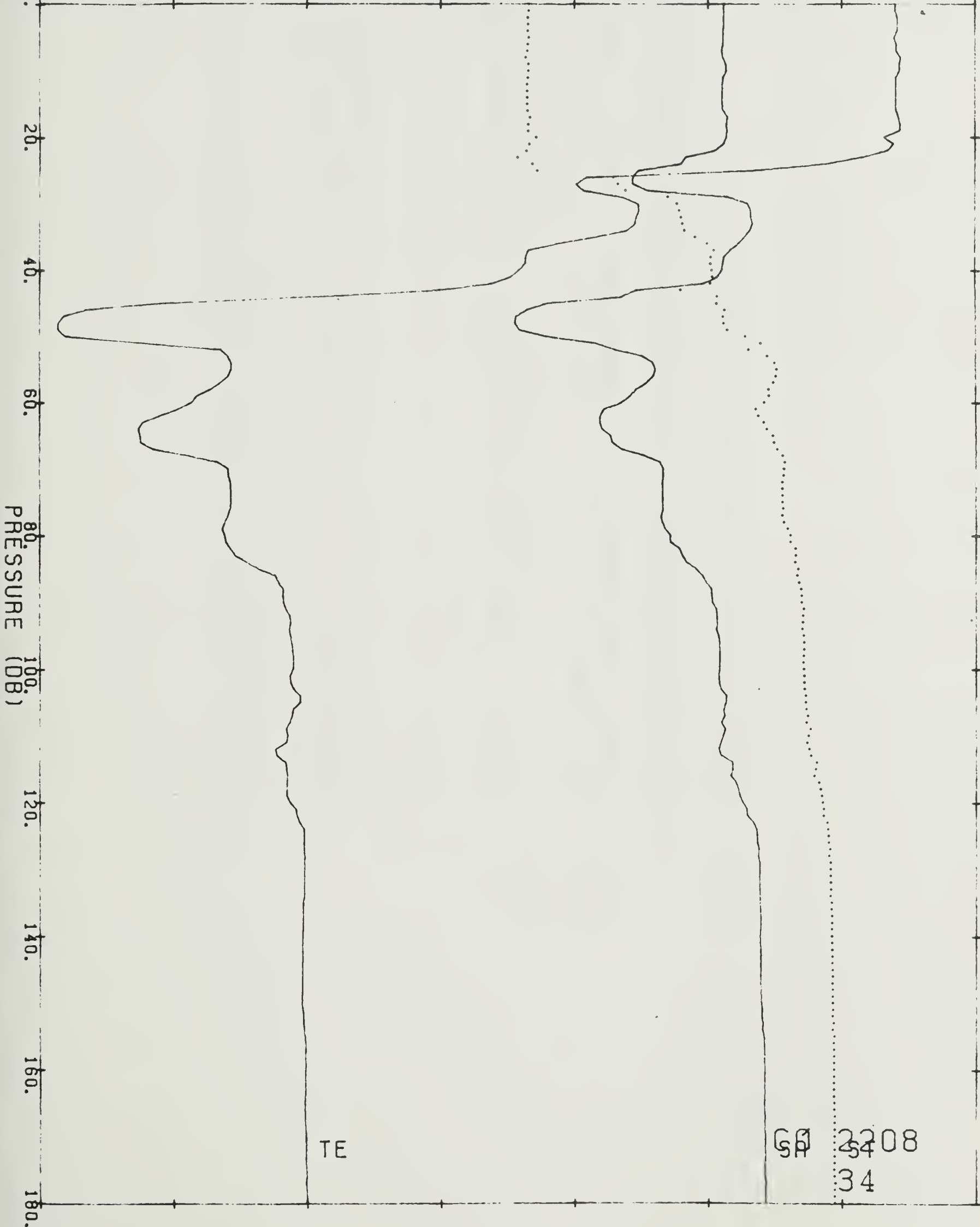
21. 22. 23. 24. 25. 26. 27. 28.

SALINITY (PPT)

30. 31. 32. 33. 34. 35. 36. 37.

TEMPERATURE (DEG C)

8. 10. 12. 14. 16. 18. 20. 22.



SHIP CO CRUISE 22-08 STATION 35 POSITION 38 9.56 N 73 49.16 W
 LOCAL TIME 320 DATE 79/ 6/21 WIND = DIR = DEPTH= 414M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	20.744	34.985	24.553	337.3	.000	1524.1	.0
5	20.511	34.989	24.619	331.2	.017	1523.6	5.0
10	20.532	34.985	24.610	332.2	.033	1523.7	10.0
15	20.260	34.896	24.615	332.0	.050	1523.0	14.9
20	19.494	34.710	24.674	326.5	.066	1520.7	19.9
25	16.527	34.428	25.187	277.7	.081	1511.8	24.9
30	15.552	34.628	25.564	242.0	.094	1509.2	29.9
35	15.082	34.778	25.784	221.3	.106	1507.9	34.9
40	12.033	34.510	26.203	181.4	.116	1497.6	39.9
45	10.720	34.313	26.291	173.0	.125	1492.8	44.9
50	10.383	34.296	26.337	168.8	.133	1491.7	49.9
55	10.182	34.340	26.406	162.3	.142	1491.1	54.9
60	10.302	34.423	26.450	158.2	.150	1491.7	59.9
65	11.210	34.798	26.580	146.1	.157	1495.5	64.9
70	11.117	34.766	26.572	146.9	.164	1495.2	69.9
75	10.812	34.777	26.636	141.0	.172	1494.2	74.9
80	11.175	34.927	26.687	136.3	.180	1495.8	80.9
85	11.864	35.209	26.778	128.0	.187	1498.7	85.9
90	12.040	35.296	26.812	124.9	.193	1499.5	90.9
95	12.560	35.496	26.866	120.0	.199	1501.6	95.9
100	12.807	35.558	26.865	120.3	.205	1502.6	100.9
105	12.830	35.565	26.866	120.4	.211	1502.7	105.9
110	12.570	35.535	26.894	117.7	.217	1501.9	110.9
115	12.255	35.495	26.925	114.9	.223	1500.9	115.9
120	12.259	35.499	26.927	114.8	.229	1501.0	120.9
125	12.238	35.495	26.928	114.8	.234	1501.0	125.9
130	12.184	35.490	26.935	114.3	.240	1500.9	130.9
135	12.133	35.480	26.937	114.2	.246	1500.7	135.9
140	12.076	35.475	26.944	113.7	.251	1500.6	140.9
145	12.051	35.472	26.947	113.5	.257	1500.6	145.9
150	12.028	35.481	26.958	112.6	.263	1500.6	150.9
155	11.993	35.475	26.960	112.5	.268	1500.6	155.9
160	11.990	35.478	26.963	112.4	.274	1500.7	160.9
165	11.997	35.479	26.962	112.5	.280	1500.8	165.9
170	12.005	35.481	26.962	112.7	.285	1500.9	170.9
175	11.978	35.475	26.963	112.7	.291	1500.9	175.9
180	11.683	35.454	27.003	109.0	.296	1499.9	180.9
185	11.548	35.443	27.020	107.5	.302	1499.5	185.9
190	11.536	35.443	27.022	107.4	.307	1499.5	190.9
195	11.533	35.441	27.021	107.6	.313	1499.6	195.9
200	11.503	35.441	27.027	107.2	.318	1499.6	200.9
225	11.070	35.395	27.071	103.4	.345	1498.4	226.9
250	10.189	35.321	27.171	94.2	.370	1495.6	251.9
275	9.855	35.296	27.208	91.0	.393	1494.7	276.9
300	8.707	35.190	27.314	80.9	.415	1490.8	301.9
325	8.060	35.176	27.403	72.5	.434	1488.7	326.9
350	7.141	35.136	27.506	62.6	.451	1485.5	352.9
375	6.710	35.100	27.538	59.7	.467	1484.2	377.9
400	6.384	35.090	27.574	56.4	.481	1483.3	402.9
414	6.059	35.066	27.598	54.1	.489	1482.2	416.9

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AM
12		34.995	5.48					
88		35.062	4.89					
251		35.296	3.71					
412		35.058	4.91					

SIGMA-T

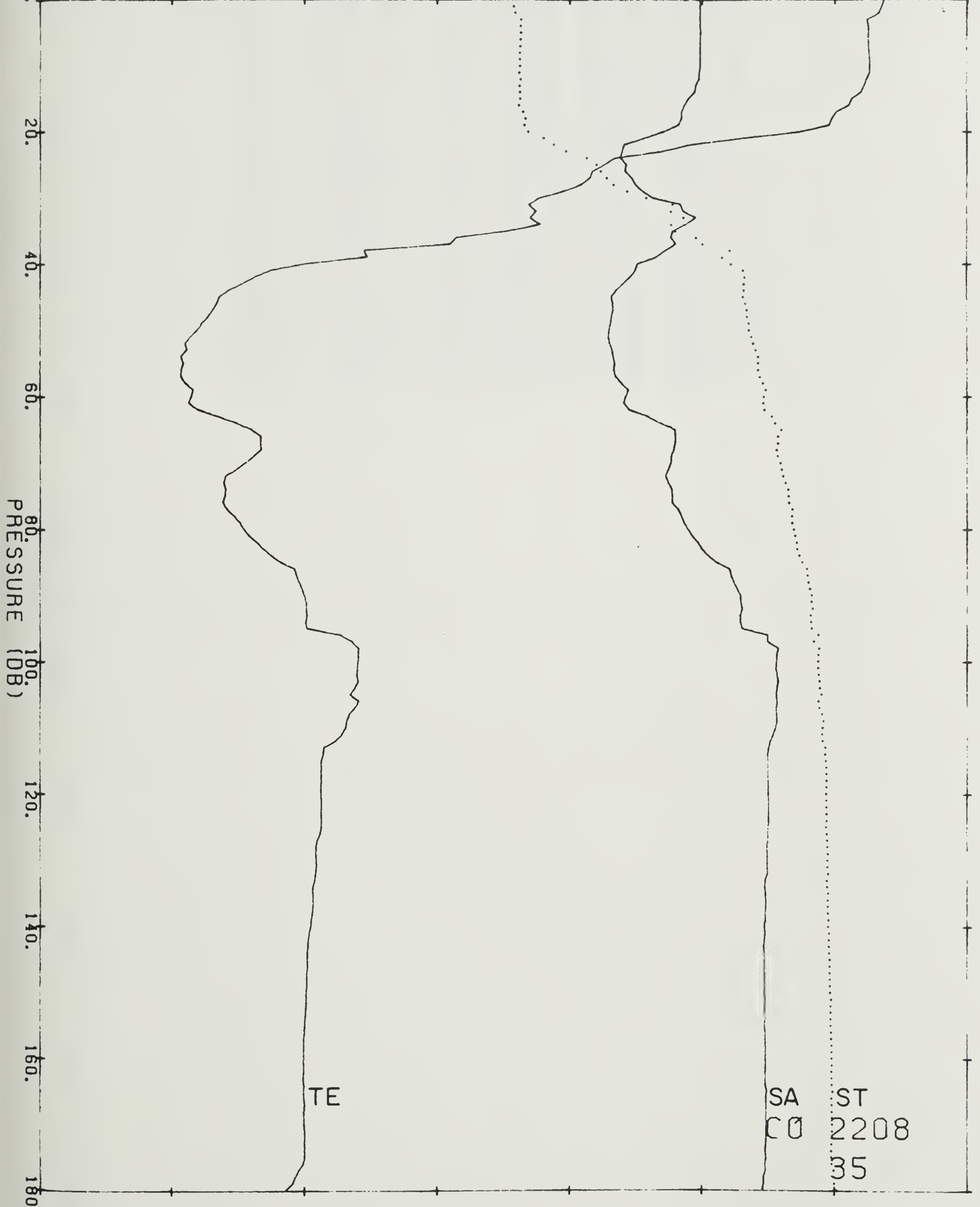
21. 22. 23. 24. 25. 26. 27. 28.

SALINITY (PPT)

30. 31. 32. 33. 34. 35. 36. 37.

TEMPERATURE (DEG C)

8. 10. 12. 14. 16. 18. 20. 22.



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35

SHIP CO CRUISE 22-08 STATION 36 POSITION 38 11.50 N 73 48.50 W
LOCAL TIME 401 DATE 79/ 6/21 WIND = DIR = DEPTH= 115M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	20.320	34.775	24.507	341.7	.000	1522.7	.0
5	20.365	34.766	24.488	343.7	.017	1522.9	5.0
10	20.431	34.798	24.495	343.2	.034	1523.2	10.0
15	18.575	34.402	24.672	326.4	.051	1517.7	14.9
20	17.053	34.167	24.863	308.4	.067	1513.0	19.9
25	12.816	34.096	25.730	226.0	.080	1499.5	24.9
30	12.078	34.198	25.952	205.0	.091	1497.2	29.9
35	12.527	34.444	26.056	195.2	.101	1499.1	34.9
40	14.583	35.370	26.349	167.7	.110	1507.2	39.9
45	14.317	35.207	26.281	174.3	.118	1506.2	44.9
50	13.370	35.004	26.322	170.5	.127	1502.9	49.9
55	13.936	35.259	26.401	163.1	.135	1505.2	54.9
60	14.530	35.493	26.456	158.2	.143	1507.5	59.9
65	12.715	35.043	26.484	155.4	.151	1501.0	64.9
70	11.485	34.826	26.551	149.0	.159	1496.6	69.9
75	11.344	34.919	26.650	139.7	.166	1496.3	74.9
80	12.081	35.165	26.702	135.0	.174	1499.3	80.9
85	12.608	35.370	26.759	129.9	.181	1501.4	85.9
90	12.918	35.481	26.783	127.8	.187	1502.7	90.9
95	12.830	35.493	26.810	125.4	.194	1502.5	95.9
100	12.689	35.502	26.845	122.2	.200	1502.1	100.9
105	12.268	35.463	26.897	117.2	.206	1500.7	105.9
110	12.027	35.452	26.936	113.7	.212	1499.9	110.9
115	12.048	35.441	26.923	115.0	.217	1500.1	115.9
115	12.048	35.441	26.923	115.0	.217	1500.1	115.9

SIGMA-T

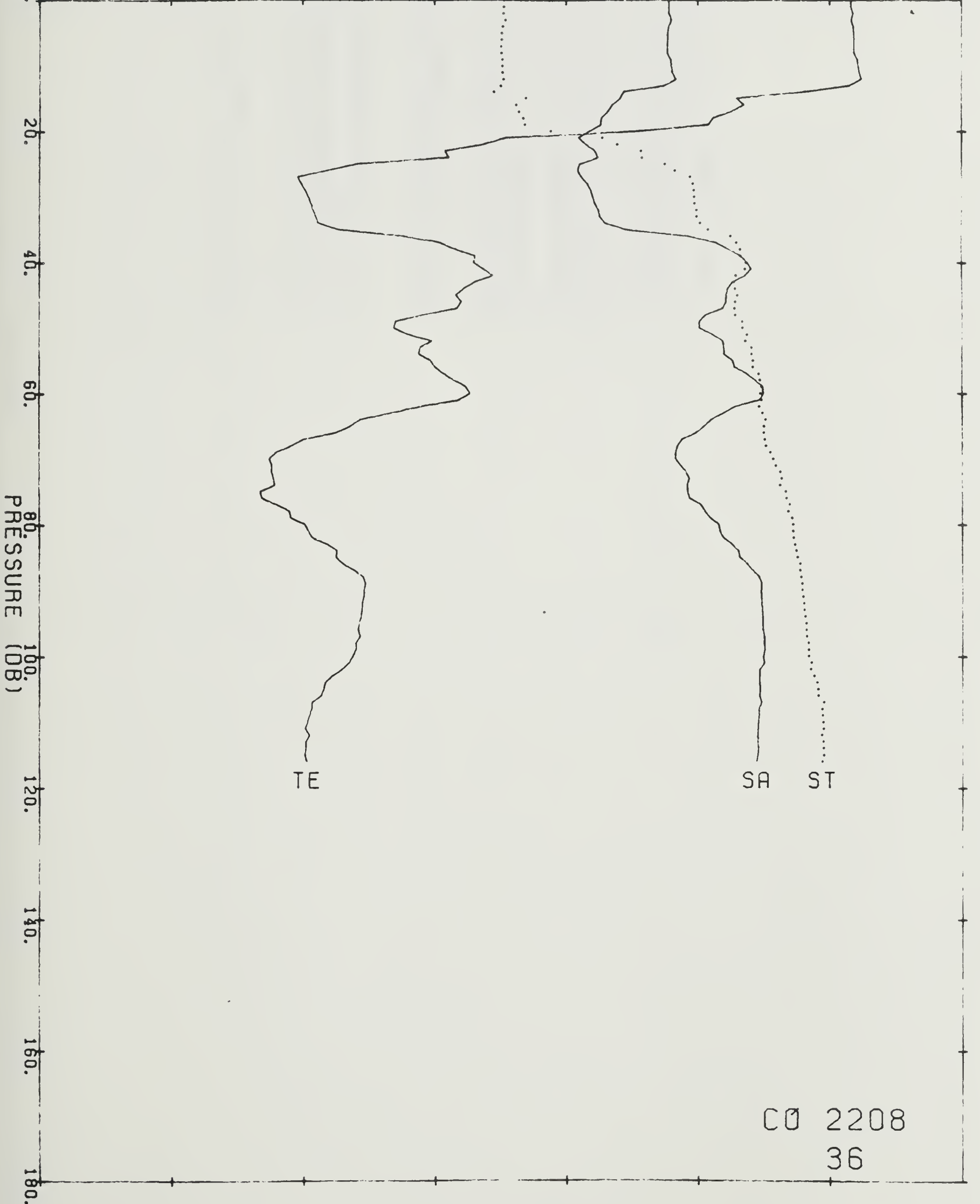
21. 22. 23. 24. 25. 26. 27. 28.

SALINITY (PPT)

30. 31. 32. 33. 34. 35. 36. 37.

TEMPERATURE (DEG C)

8. 10. 12. 14. 16. 18. 20. 22.



SHIP CO CRUISE 22-08 STATION 37 POSITION 38 11.80 N 73 53.60 W
LOCAL TIME 620 DATE 79/ 6/21 WIND = DIR = DEPTH= 92M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	20.278	34.800	24.537	338.9	.000	1522.7	.0
5	20.414	34.770	24.478	344.7	.017	1523.1	5.0
10	20.479	34.812	24.492	343.5	.034	1523.4	10.0
15	20.500	34.874	24.534	339.7	.051	1523.6	14.9
20	20.240	34.839	24.577	335.8	.068	1522.9	19.9
25	17.200	34.205	24.858	309.1	.084	1513.6	24.9
30	12.220	33.894	25.689	230.0	.098	1497.3	29.9
35	13.252	34.741	26.142	187.1	.108	1502.0	34.9
40	11.649	34.491	26.260	175.9	.117	1496.3	39.9
45	9.960	34.176	26.316	170.6	.126	1489.9	44.9
50	9.580	34.280	26.461	156.9	.134	1488.7	49.9
55	10.814	34.649	26.536	150.0	.142	1493.8	54.9
60	11.085	34.708	26.533	150.4	.149	1494.9	59.9
65	10.859	34.658	26.535	150.4	.157	1494.1	64.9
70	10.590	34.631	26.562	147.9	.164	1493.2	69.9
75	10.686	34.686	26.588	145.6	.171	1493.7	74.9
80	10.900	34.730	26.584	146.1	.180	1494.6	80.9
85	10.960	34.755	26.592	145.4	.187	1494.9	85.9
90	11.010	34.773	26.597	145.1	.195	1495.2	90.9
92	11.210	34.770	26.559	148.8	.198	1495.9	92.9

SIGMA-T

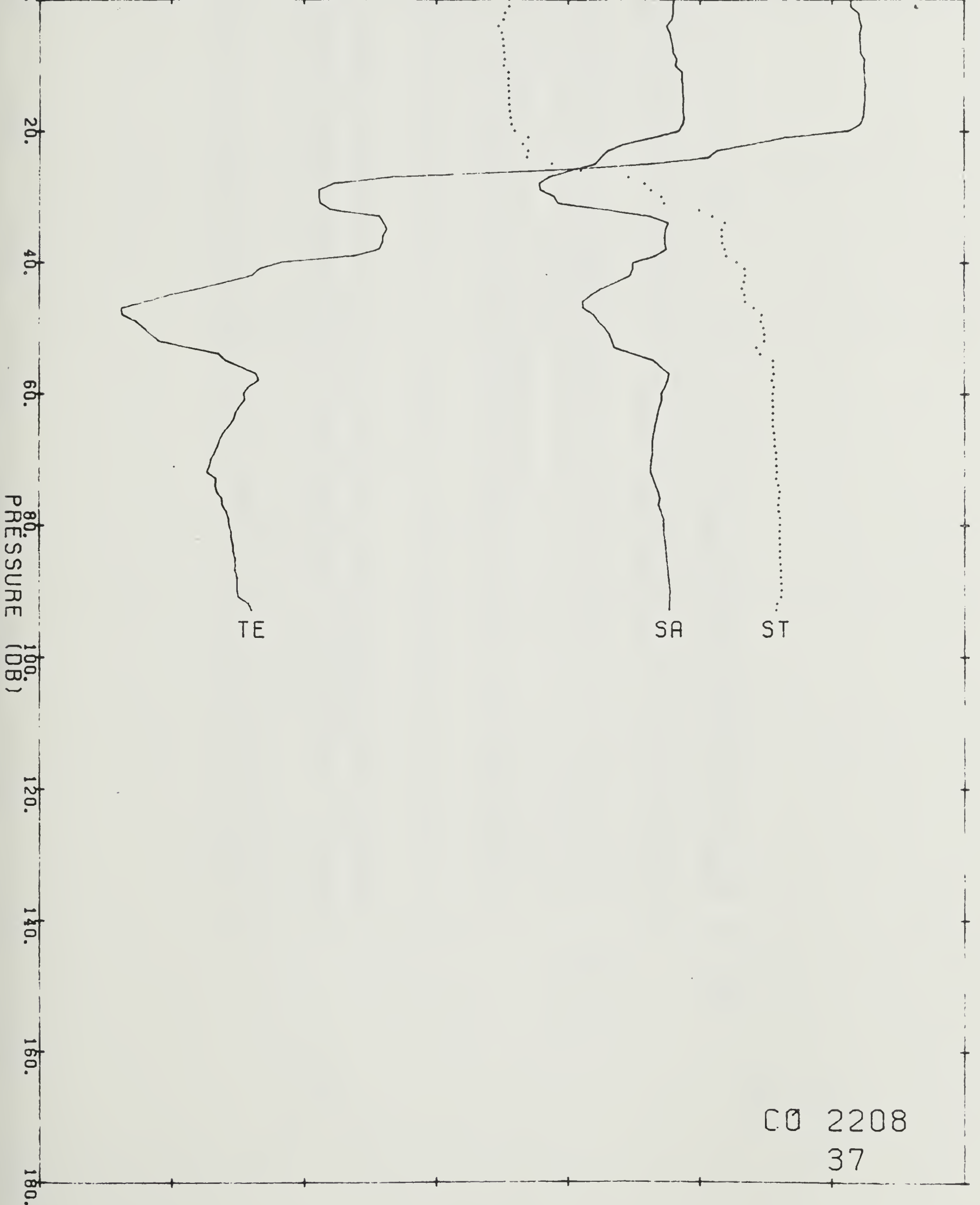
21. 22. 23. 24. 25. 26. 27. 28.

SALINITY (PPT)

30. 31. 32. 33. 34. 35. 36. 37.

TEMPERATURE (DEG C)

8. 10. 12. 14. 16. 18. 20. 22.



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37

SHIP CO CRUISE 22-08 STATION 38 POSITION 37 48.50 N 74 3.60 W
 LOCAL TIME 1000 DATE 79/ 6/21 WIND = DIR = DEPTH= 823M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	21.358	35.397	24.700	323.3	0.000	1526.2	0.0
9	21.306	35.395	24.712	322.5	.031	1526.2	9.5
15	21.287	35.395	24.717	322.2	.050	1526.3	15.5
21	20.861	35.369	24.814	313.3	.069	1525.2	21.5
27	19.400	35.321	25.164	280.1	.087	1521.3	27.5
33	17.832	35.426	25.641	234.9	.102	1517.1	33.5
39	16.520	35.583	26.076	193.7	.115	1513.5	39.5
45	15.573	35.605	26.311	171.5	.126	1510.7	45.5
51	14.929	35.628	26.473	156.3	.136	1508.8	51.5
57	14.402	35.630	26.589	145.4	.145	1507.2	57.5
63	14.117	35.625	26.646	140.2	.154	1506.4	63.5
69	13.793	35.593	26.690	136.2	.162	1505.4	69.5
75	13.566	35.576	26.724	133.1	.170	1504.7	75.5
81	13.429	35.572	26.749	130.8	.178	1504.3	81.5
87	13.323	35.583	26.779	128.1	.186	1504.1	87.5
93	13.202	35.587	26.807	125.6	.193	1503.8	93.5
99	13.096	35.591	26.832	123.4	.201	1503.5	99.5
105	13.009	35.596	26.853	121.5	.208	1503.4	105.5
111	12.904	35.587	26.868	120.3	.215	1503.1	111.5
117	12.730	35.565	26.886	118.7	.223	1502.6	117.5
123	12.627	35.558	26.901	117.4	.230	1502.3	123.5
129	12.647	35.584	26.917	116.1	.237	1502.5	129.5
135	12.648	35.597	26.927	115.3	.244	1502.6	135.5
141	12.601	35.592	26.932	114.9	.250	1502.6	141.5
147	12.552	35.588	26.939	114.4	.257	1502.5	147.5
153	12.505	35.585	26.946	113.9	.264	1502.4	153.5
159	12.428	35.574	26.952	113.5	.271	1502.3	159.5
164	12.351	35.560	26.957	113.2	.278	1502.1	165.5
170	12.231	35.539	26.964	112.7	.285	1501.7	171.5
176	11.980	35.494	26.977	111.4	.291	1500.9	177.5
182	11.853	35.476	26.987	110.6	.298	1500.6	183.5
188	11.816	35.475	26.994	110.1	.305	1500.5	189.5
194	11.725	35.471	27.008	108.9	.311	1500.3	195.5
200	11.587	35.458	27.024	107.4	.318	1499.9	201.5
206	11.528	35.453	27.032	106.9	.324	1499.8	207.5
212	11.506	35.457	27.038	106.4	.330	1499.8	213.5
218	11.448	35.453	27.046	105.7	.337	1499.7	219.5
224	11.325	35.440	27.059	104.6	.343	1499.3	225.5
230	11.224	35.431	27.070	103.7	.349	1499.1	231.5
236	11.167	35.424	27.076	103.3	.356	1499.0	237.5
242	11.119	35.428	27.088	102.2	.362	1498.9	243.5
248	11.005	35.439	27.117	99.6	.368	1498.6	249.5
254	10.814	35.397	27.119	99.4	.374	1498.0	255.5
275	10.191	35.324	27.173	94.6	.395	1496.0	276.9
300	9.012	35.207	27.279	84.4	.417	1491.9	302.1
325	8.432	35.157	27.331	79.6	.438	1490.1	327.3
350	7.706	35.116	27.410	72.1	.457	1487.7	352.5
375	6.784	35.072	27.506	62.8	.474	1484.5	377.7
400	6.238	35.050	27.562	57.4	.489	1482.7	402.9
425	5.887	35.034	27.595	54.4	.503	1481.7	428.1
450	5.661	35.030	27.619	52.2	.517	1481.2	453.4
475	5.458	35.026	27.641	50.2	.529	1480.7	478.6
500	5.391	35.025	27.649	49.7	.542	1480.9	503.8
600	4.892	35.012	27.698	45.7	.590	1480.5	604.9
700	4.612	35.002	27.722	44.2	.636	1481.0	705.9
800	4.380	34.997	27.743	42.8	.680	1481.7	807.0
823	4.340	34.989	27.742	43.1	.690	1481.9	830.0

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AM
19		35.372						
212		35.431						
510								
817		35.000						

SIGMA-T

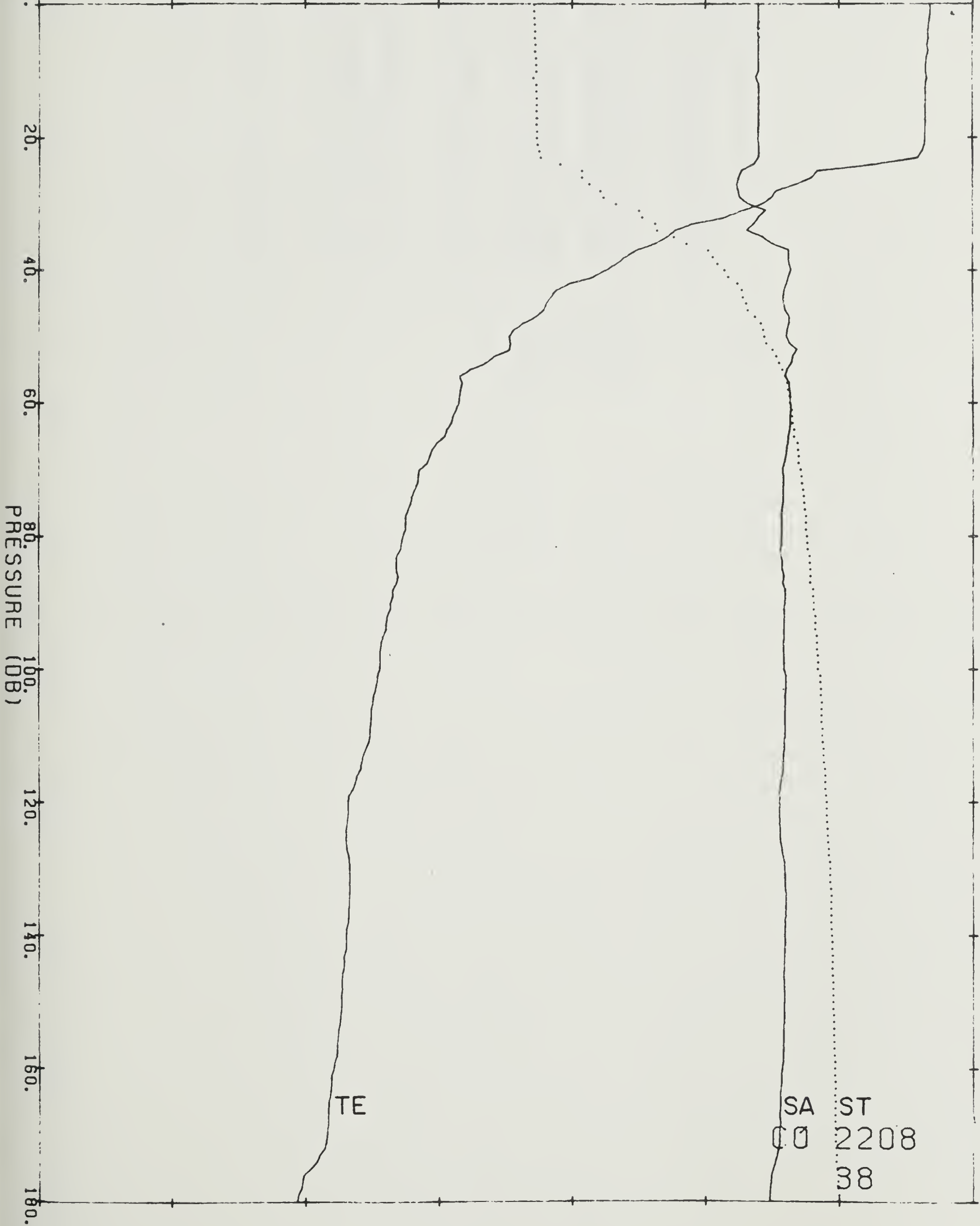
21. 22. 23. 24. 25. 26. 27. 28.

SALINITY (PPT)

30. 31. 32. 33. 34. 35. 36. 37.

TEMPERATURE (DEG C)

8. 10. 12. 14. 16. 18. 20. 22.



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38

SHIP CO CRUISE 22-08 STATION 39 POSITION 37 41.00 N 74 22.05 W
 LOCAL TIME 1630 DATE 79/ 6/21 WIND = DIR = DEPTH= 77M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	19.191	33.230	23.622	426.2	.000	1517.8	.0
5	18.485	33.306	23.857	403.9	.021	1516.0	5.0
10	17.727	34.049	24.611	332.1	.039	1514.7	10.0
15	17.068	34.307	24.967	298.3	.055	1513.2	14.9
20	15.492	34.385	25.390	258.2	.069	1508.5	19.9
25	12.472	33.978	25.706	228.3	.081	1498.2	24.9
30	9.874	33.533	25.828	216.6	.092	1488.5	29.9
35	6.819	33.347	26.141	186.7	.102	1476.7	34.9
40	6.259	33.296	26.174	183.7	.111	1474.5	39.9
45	5.886	33.283	26.210	180.2	.120	1473.1	44.9
50	5.888	33.292	26.217	179.6	.129	1473.2	49.9
55	5.991	33.286	26.200	181.4	.138	1473.7	54.9
60	6.359	33.400	26.243	177.3	.147	1475.4	59.9
65	6.371	33.396	26.239	177.9	.156	1475.5	64.9
70	6.376	33.403	26.243	177.4	.165	1475.6	69.9
75	6.379	33.420	26.256	176.3	.174	1475.7	74.9
77	6.381	33.402	26.242	177.7	.177	1475.7	76.9

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AM
19		34.357	6.67					
60		33.385	6.54					
64			6.50					
76		33.398	6.53					

SIGMA-T

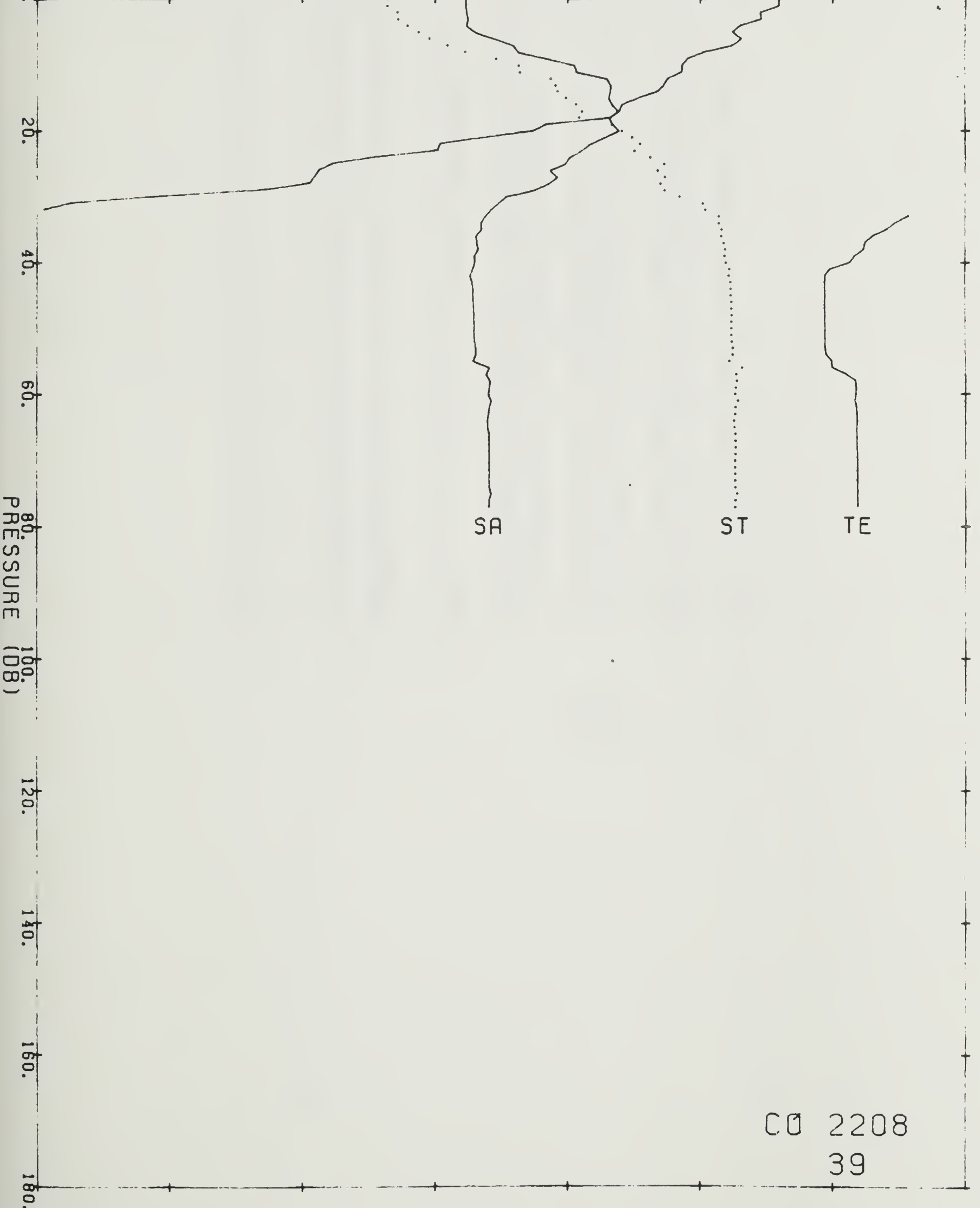
21. 22. 23. 24. 25. 26. 27. 28.

SALINITY (PPT)

30. 31. 32. 33. 34. 35. 36. 37.

TEMPERATURE (DEG C)

8. 10. 12. 14. 16. 18. 20. 22.



C0 2208
39

SHIP CO CRUISE 22-08 STATION 40 POSITION 37 38.50 N 74 15.50 W
 LOCAL TIME 1636 DATE 79/ 6/21 WIND = DIR = DEPTH= 187M

DTH	TEM	SAL	SGT	AND	DYN	SVL	PRS
0	21.697	35.409	24.615	331.4	.000	1527.1	.0
5	21.714	35.421	24.619	331.2	.017	1527.3	5.0
10	21.578	35.420	24.656	327.9	.033	1527.0	10.0
15	21.381	35.427	24.716	322.4	.049	1526.6	14.9
20	21.358	35.427	24.722	321.9	.065	1526.6	19.9
25	21.332	35.426	24.729	321.5	.081	1526.6	24.9
30	19.762	35.287	25.045	291.6	.097	1522.3	29.9
35	16.066	35.417	26.054	195.6	.109	1511.8	34.9
40	11.316	34.435	26.279	174.1	.118	1495.0	39.9
45	8.332	33.777	26.264	175.4	.127	1483.3	44.9
50	8.564	33.969	26.379	164.6	.135	1484.5	49.9
55	9.851	34.278	26.414	161.5	.143	1489.8	54.9
60	12.240	35.144	26.655	139.0	.151	1499.5	59.9
65	14.134	35.609	26.630	141.7	.158	1506.4	64.9
70	13.987	35.605	26.658	139.2	.165	1506.0	69.9
75	13.460	35.540	26.718	133.6	.172	1504.3	74.9
80	13.267	35.514	26.738	131.9	.180	1503.7	80.9
85	13.349	35.620	26.803	125.8	.186	1504.2	85.9
90	13.217	35.586	26.804	125.9	.192	1503.8	90.9
95	12.907	35.544	26.834	123.1	.199	1502.8	95.9
100	12.743	35.530	26.856	121.1	.205	1502.3	100.9
105	12.594	35.513	26.872	119.7	.211	1501.9	105.9
110	12.475	35.493	26.880	119.0	.217	1501.5	110.9
115	12.445	35.506	26.896	117.6	.223	1501.5	115.9
120	12.358	35.497	26.906	116.8	.229	1501.3	120.9
125	12.255	35.482	26.915	116.1	.234	1501.0	125.9
130	12.135	35.462	26.923	115.5	.240	1500.6	130.9
135	12.084	35.456	26.928	115.1	.246	1500.5	135.9
140	12.007	35.463	26.948	113.3	.252	1500.4	140.9
145	11.988	35.462	26.951	113.1	.257	1500.4	145.9
150	11.935	35.461	26.960	112.3	.263	1500.3	150.9
155	11.888	35.456	26.965	112.0	.269	1500.2	155.9
160	11.854	35.456	26.972	111.5	.274	1500.2	160.9
165	11.823	35.452	26.975	111.3	.280	1500.1	165.9
170	11.741	35.450	26.989	110.1	.285	1499.9	170.9
175	11.729	35.451	26.992	109.9	.291	1500.0	175.9
180	11.645	35.449	27.006	108.7	.296	1499.8	180.9
185	11.607	35.446	27.011	108.3	.302	1499.7	185.9
187	11.594	35.448	27.015	108.0	.304	1499.7	187.9

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AM
9		35.413						
89		35.540						
137		35.438						
185		35.427						

SIGMA-T

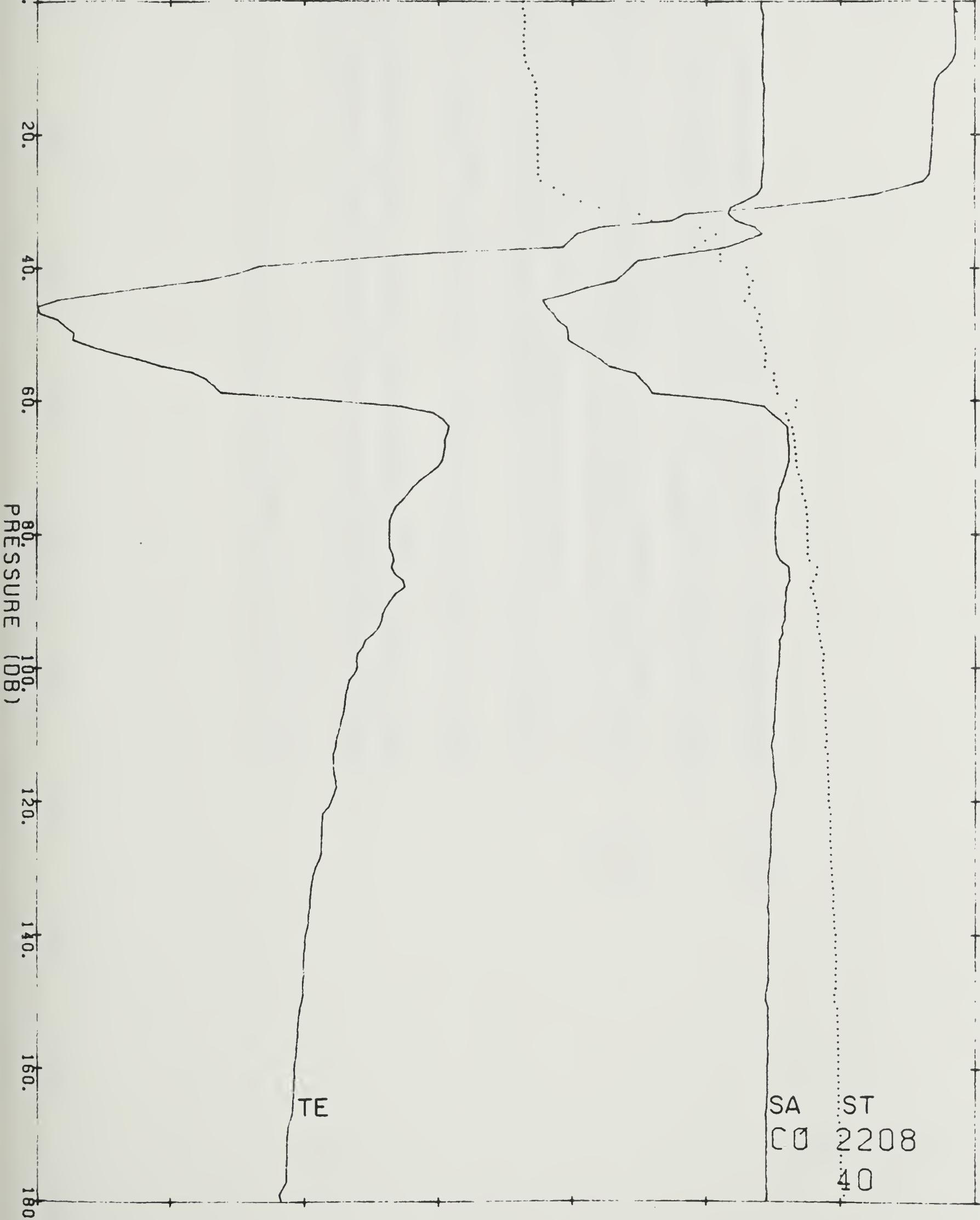
21. 22. 23. 24. 25. 26. 27. 28.

SALINITY (PPT)

30. 31. 32. 33. 34. 35. 36. 37.

TEMPERATURE (DEG C)

8. 10. 12. 14. 16. 18. 20. 22.



PRESSURE (DB)

TE

SA ST
C0 2208
40

SHIP CO CRUISE 22-08 STATION 41 POSITION 37 37.97 N 74 12.40 W
 LOCAL TIME 1921 DATE 79/ 6/21 WIND = DIR = DEPTH= 365M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	21.539	35.447	24.688	324.5	.000	1526.8	.0
5	21.550	35.438	24.678	325.6	.016	1526.9	5.0
10	21.518	35.450	24.696	324.1	.033	1526.9	10.0
15	21.447	35.440	24.708	323.1	.048	1526.8	14.9
20	21.324	35.441	24.742	320.0	.064	1526.5	19.9
25	21.322	35.424	24.730	321.4	.081	1526.6	24.9
30	19.964	35.470	25.131	283.4	.096	1523.1	29.9
35	17.581	35.653	25.876	212.6	.108	1516.6	34.9
40	17.024	35.712	26.056	195.6	.118	1515.1	39.9
45	16.009	35.747	26.321	170.6	.127	1512.2	44.9
50	15.579	35.748	26.420	161.3	.136	1510.9	49.9
55	14.643	35.605	26.518	152.1	.144	1507.9	54.9
60	14.183	35.581	26.598	144.6	.151	1506.5	59.9
65	13.743	35.543	26.662	138.7	.158	1505.1	64.9
70	13.635	35.558	26.696	135.6	.165	1504.8	69.9
75	13.601	35.597	26.733	132.2	.172	1504.8	74.9
80	13.528	35.587	26.740	131.6	.180	1504.7	80.9
85	13.423	35.593	26.767	129.3	.186	1504.4	85.9
90	13.091	35.533	26.788	127.3	.192	1503.3	90.9
95	12.935	35.531	26.818	124.6	.199	1502.9	95.9
100	12.495	35.468	26.857	121.0	.205	1501.4	100.9
105	12.397	35.468	26.876	119.3	.211	1501.1	105.9
110	12.276	35.451	26.887	118.4	.217	1500.8	110.9
115	12.195	35.445	26.898	117.4	.223	1500.6	115.9
120	12.168	35.444	26.902	117.1	.229	1500.6	120.9
125	12.156	35.449	26.908	116.7	.234	1500.6	125.9
130	12.205	35.469	26.914	116.3	.240	1500.9	130.9
135	12.216	35.478	26.919	115.9	.246	1501.0	135.9
140	12.180	35.482	26.929	115.1	.252	1501.0	140.9
145	12.175	35.490	26.937	114.5	.258	1501.1	145.9
150	12.122	35.495	26.951	113.3	.263	1501.0	150.9
155	11.982	35.482	26.968	111.8	.269	1500.6	155.9
160	11.897	35.473	26.977	111.0	.274	1500.3	160.9
165	11.823	35.468	26.987	110.2	.280	1500.2	165.9
170	11.799	35.462	26.987	110.3	.286	1500.1	170.9
175	11.670	35.450	27.002	108.9	.291	1499.8	175.9
180	11.637	35.453	27.011	108.2	.296	1499.7	180.9
185	11.627	35.461	27.019	107.6	.302	1499.8	185.9
190	11.582	35.462	27.028	106.8	.307	1499.7	190.9
195	11.489	35.452	27.038	106.0	.313	1499.5	195.9
200	11.317	35.431	27.054	104.6	.318	1498.9	200.9
225	11.114	35.410	27.075	103.1	.345	1498.6	226.9
250	10.792	35.378	27.108	100.4	.370	1497.8	251.9
275	9.731	35.266	27.206	91.2	.394	1494.3	276.9
300	9.136	35.213	27.263	85.9	.416	1492.4	301.9
325	8.303	35.145	27.342	78.5	.437	1489.6	326.9
350	7.342	35.090	27.442	68.8	.456	1486.3	352.9
365	6.892	35.056	27.478	65.3	.466	1484.7	367.9

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AM
20		35.429						
62		35.528						
163		35.447						
363		35.075						

SIGMA-T

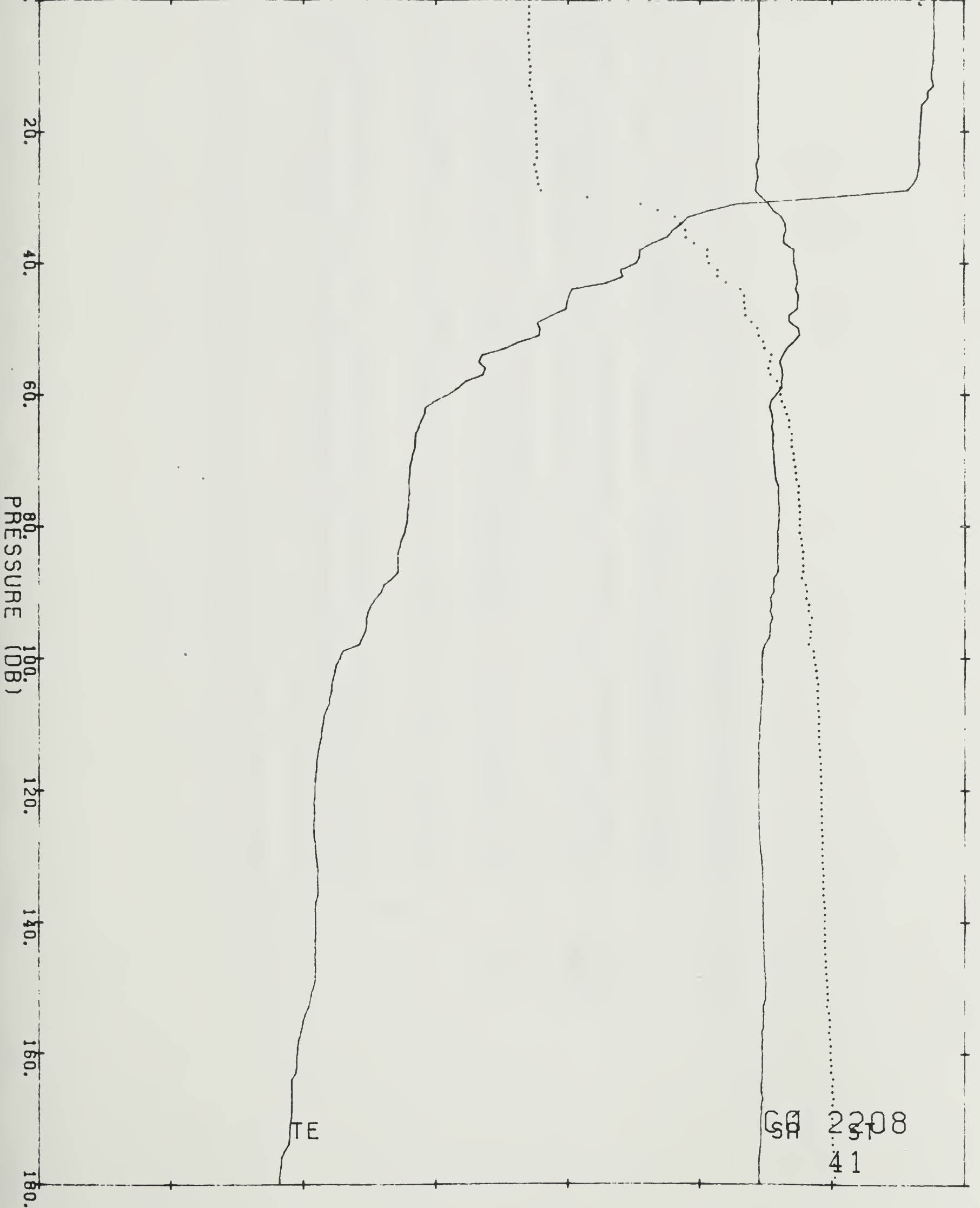
21. 22. 23. 24. 25. 26. 27. 28.

SALINITY (PPT)

30. 31. 32. 33. 34. 35. 36. 37.

TEMPERATURE (DEG C)

8. 10. 12. 14. 16. 18. 20. 22.



SHIP CO CRUISE 22-08 STATION 42 POSITION 37 37.43 N 74 11.64 W
 LOCAL TIME 2149 DATE 79/ 6/21 WIND = DIR = DEPTH= 507M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	21.478	35.456	24.711	322.3	.000	1526.6	.0
5	21.469	35.452	24.711	322.5	.016	1526.7	5.0
10	21.484	35.452	24.707	323.1	.032	1526.8	10.0
15	21.481	35.450	24.706	323.3	.048	1526.9	14.9
20	21.323	35.436	24.739	320.4	.064	1526.5	19.9
25	21.267	35.427	24.747	319.7	.080	1526.4	24.9
30	21.255	35.431	24.754	319.3	.096	1526.5	29.9
35	21.133	35.427	24.784	316.6	.112	1526.2	34.9
40	17.176	35.415	25.792	220.8	.126	1515.2	39.9
45	16.241	35.409	26.008	200.4	.136	1512.5	44.9
50	16.055	35.580	26.182	183.9	.146	1512.2	49.9
55	14.605	35.470	26.422	161.2	.154	1507.6	54.9
60	14.276	35.482	26.502	153.8	.162	1506.6	59.9
65	13.958	35.496	26.580	146.4	.170	1505.7	64.9
70	13.755	35.501	26.627	142.1	.177	1505.1	69.9
75	13.684	35.561	26.688	136.5	.184	1505.1	74.9
80	13.562	35.564	26.716	134.0	.192	1504.8	80.9
85	13.371	35.555	26.748	131.0	.199	1504.2	85.9
90	13.184	35.542	26.776	128.5	.205	1503.6	90.9
95	12.807	35.491	26.813	125.1	.211	1502.4	95.9
100	12.703	35.493	26.835	123.1	.218	1502.1	100.9
105	12.606	35.490	26.852	121.6	.224	1501.9	105.9
110	12.483	35.471	26.862	120.8	.230	1501.5	110.9
115	12.426	35.469	26.871	120.0	.236	1501.4	115.9
120	12.259	35.456	26.894	118.0	.242	1500.9	120.9
125	12.218	35.456	26.902	117.3	.248	1500.8	125.9
130	12.125	35.453	26.917	115.9	.254	1500.6	130.9
135	12.145	35.470	26.927	115.2	.259	1500.8	135.9
140	12.118	35.472	26.934	114.7	.265	1500.8	140.9
145	12.115	35.487	26.946	113.6	.271	1500.9	145.9
150	12.111	35.486	26.946	113.8	.276	1500.9	150.9
155	12.088	35.487	26.951	113.4	.282	1500.9	155.9
160	12.032	35.482	26.958	112.8	.288	1500.8	160.9
165	11.984	35.495	26.977	111.1	.293	1500.7	165.9
170	11.838	35.473	26.988	110.2	.299	1500.3	170.9
175	11.825	35.474	26.992	110.0	.304	1500.3	175.9
180	11.718	35.456	26.998	109.5	.310	1500.0	180.9
185	11.622	35.451	27.012	108.2	.315	1499.8	185.9
190	11.582	35.450	27.019	107.7	.321	1499.7	190.9
195	11.549	35.447	27.023	107.4	.326	1499.7	195.9
200	11.555	35.453	27.026	107.2	.331	1499.8	200.9
225	11.220	35.421	27.064	104.2	.359	1499.0	226.9
250	10.910	35.390	27.096	101.6	.385	1498.3	251.9
275	10.267	35.324	27.159	95.9	.409	1496.3	276.9
300	9.399	35.222	27.227	89.5	.433	1493.4	301.9
325	8.515	35.154	27.316	81.0	.454	1490.4	326.9
350	7.509	35.092	27.419	71.1	.474	1486.9	352.9
375	6.680	35.058	27.509	62.4	.490	1484.0	377.9
400	6.340	35.047	27.546	59.0	.505	1483.1	402.9
425	6.111	35.031	27.563	57.5	.520	1482.5	427.9
450	5.692	35.024	27.611	53.0	.534	1481.3	452.9
475	5.606	35.023	27.621	52.3	.548	1481.3	478.9
500	5.401	35.017	27.641	50.5	.560	1480.9	503.9
507	5.389	35.017	27.643	50.4	.564	1481.0	510.9

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AM
20		34.997	5.37					
51		35.580	5.92					
62		35.528	5.26					
506		35.057	4.73					

SIGMA-T

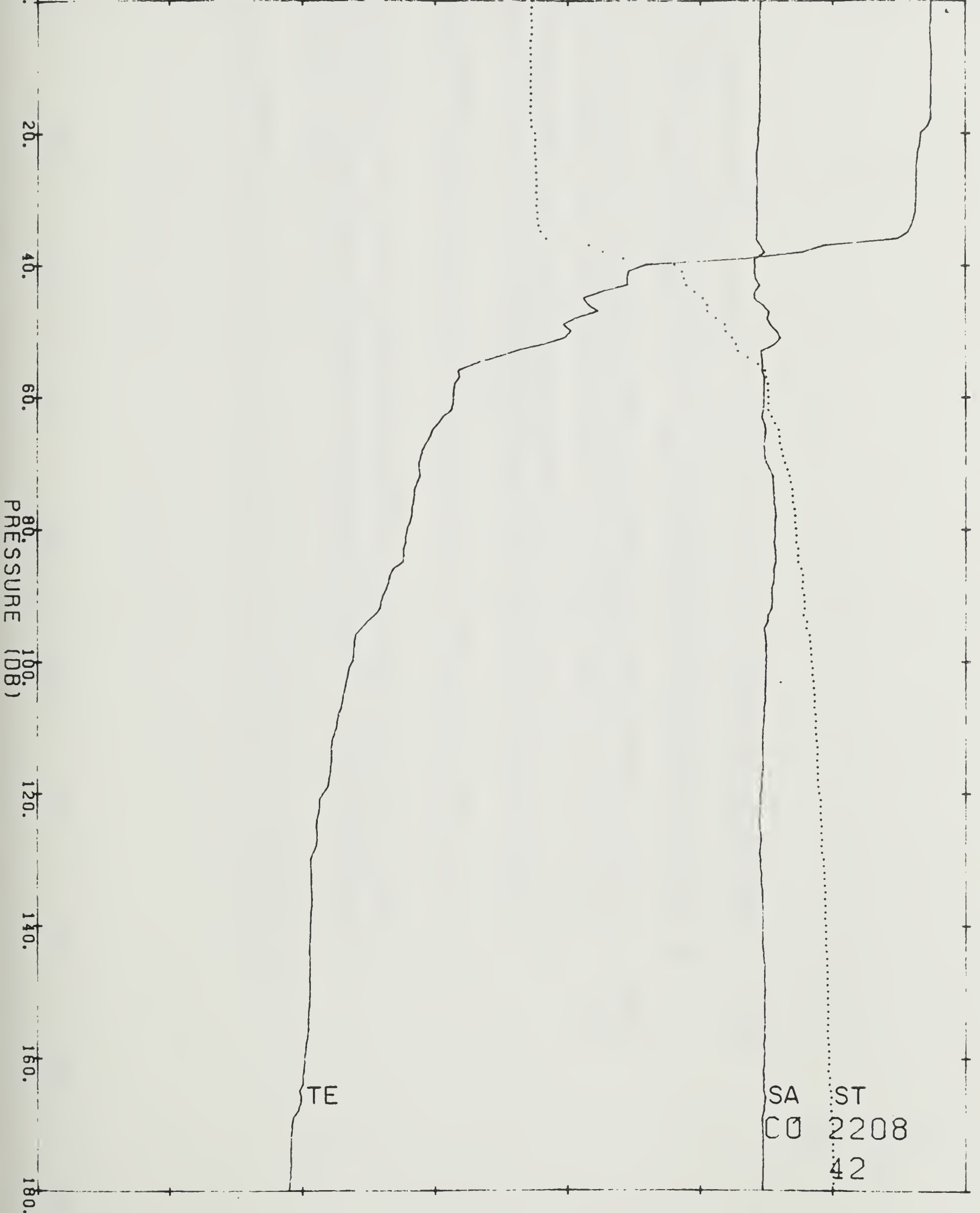
21. 22. 23. 24. 25. 26. 27. 28.

SALINITY (PPT)

30. 31. 32. 33. 34. 35. 36. 37.

TEMPERATURE (DEG C)

8. 10. 12. 14. 16. 18. 20. 22.



SHIP CO CRUISE 22-08 STATION 43 POSITION 37 36.10 N 74 10.90 W
 LOCAL TIME 17 DATE 79/ 6/22 WIND = DIR = DEPTH= 968M

DTH	TEM	SAL	SGT	AND	DYN	SVL	PRS
0	21.409	35.413	24.698	323.6	.000	1526.4	.0
5	21.406	35.422	24.705	323.0	.016	1526.5	5.0
10	21.410	35.419	24.702	323.5	.032	1526.6	10.0
15	21.415	35.423	24.704	323.5	.048	1526.6	14.9
20	21.329	35.411	24.718	322.3	.064	1526.5	19.9
25	20.060	35.345	25.010	294.7	.080	1523.1	24.9
30	18.000	35.130	25.373	260.3	.094	1517.1	29.9
35	17.185	35.466	25.829	217.1	.106	1515.2	34.9
40	15.182	35.348	26.201	181.8	.116	1509.0	39.9
45	15.259	35.389	26.215	180.6	.125	1509.4	44.9
50	14.698	35.461	26.394	163.7	.133	1507.8	49.9
55	14.342	35.430	26.447	158.8	.141	1506.7	54.9
60	14.422	35.548	26.521	151.9	.149	1507.2	59.9
65	13.793	35.536	26.646	140.2	.156	1505.2	64.9
70	13.231	35.425	26.676	137.4	.163	1503.3	69.9
75	13.014	35.460	26.747	130.8	.170	1502.7	74.9
80	12.859	35.465	26.782	127.6	.178	1502.3	80.9
85	12.808	35.476	26.801	125.9	.184	1502.2	85.9
90	12.797	35.508	26.828	123.5	.190	1502.3	90.9
95	12.887	35.531	26.828	123.7	.197	1502.7	95.9
100	12.881	35.540	26.836	123.0	.203	1502.8	100.9
105	12.765	35.532	26.853	121.5	.209	1502.5	105.9
110	12.637	35.510	26.862	120.8	.215	1502.1	110.9
115	12.514	35.486	26.867	120.4	.221	1501.7	115.9
120	12.467	35.492	26.881	119.2	.227	1501.7	120.9
125	12.347	35.484	26.898	117.7	.233	1501.3	125.9
130	12.294	35.485	26.910	116.7	.239	1501.2	130.9
135	12.255	35.488	26.920	115.9	.244	1501.2	135.9
140	12.129	35.475	26.934	114.7	.250	1500.8	140.9
145	12.050	35.477	26.951	113.2	.256	1500.6	145.9
150	12.017	35.480	26.959	112.5	.262	1500.6	150.9
155	11.929	35.476	26.973	111.3	.267	1500.4	155.9
160	11.866	35.474	26.984	110.4	.273	1500.2	160.9
165	11.812	35.470	26.991	109.8	.278	1500.1	165.9
170	11.768	35.468	26.998	109.3	.284	1500.0	170.9
175	11.683	35.459	27.007	108.5	.289	1499.8	175.9
180	11.635	35.459	27.016	107.7	.295	1499.7	180.9
185	11.572	35.456	27.025	107.0	.300	1499.6	185.9
190	11.496	35.450	27.035	106.1	.305	1499.4	190.9
195	11.407	35.443	27.046	105.2	.311	1499.2	195.9
200	11.309	35.433	27.057	104.3	.316	1498.9	200.9
225	10.990	35.395	27.086	102.0	.343	1498.1	226.9
250	10.345	35.330	27.150	96.2	.367	1496.2	251.9
275	9.828	35.277	27.198	92.0	.391	1494.6	276.9
300	9.319	35.221	27.240	88.3	.413	1493.1	301.9
325	8.872	35.180	27.280	84.7	.435	1491.8	326.9
350	8.056	35.123	27.362	76.8	.456	1489.1	352.9
375	7.274	35.079	27.443	69.1	.474	1486.4	377.9
400	6.536	35.051	27.523	61.3	.491	1483.9	402.9
425	6.247	35.038	27.551	58.8	.506	1483.1	427.9
450	5.947	35.035	27.587	55.4	.520	1482.3	452.9
475	5.715	35.024	27.608	53.6	.534	1481.8	478.9
500	5.391	35.015	27.641	50.5	.547	1480.9	503.9
600	4.976	35.014	27.689	46.6	.596	1480.8	604.9
700	4.740	35.000	27.705	45.9	.643	1481.5	705.9
800	4.458	34.992	27.731	44.1	.688	1482.0	806.9
900	4.238	34.989	27.752	42.7	.732	1482.7	907.9
968	4.166	34.986	27.758	42.7	.762	1483.5	976.9

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AM
21		35.397						
61		35.489						
494		35.033						
958		34.993						

SIGMA-T

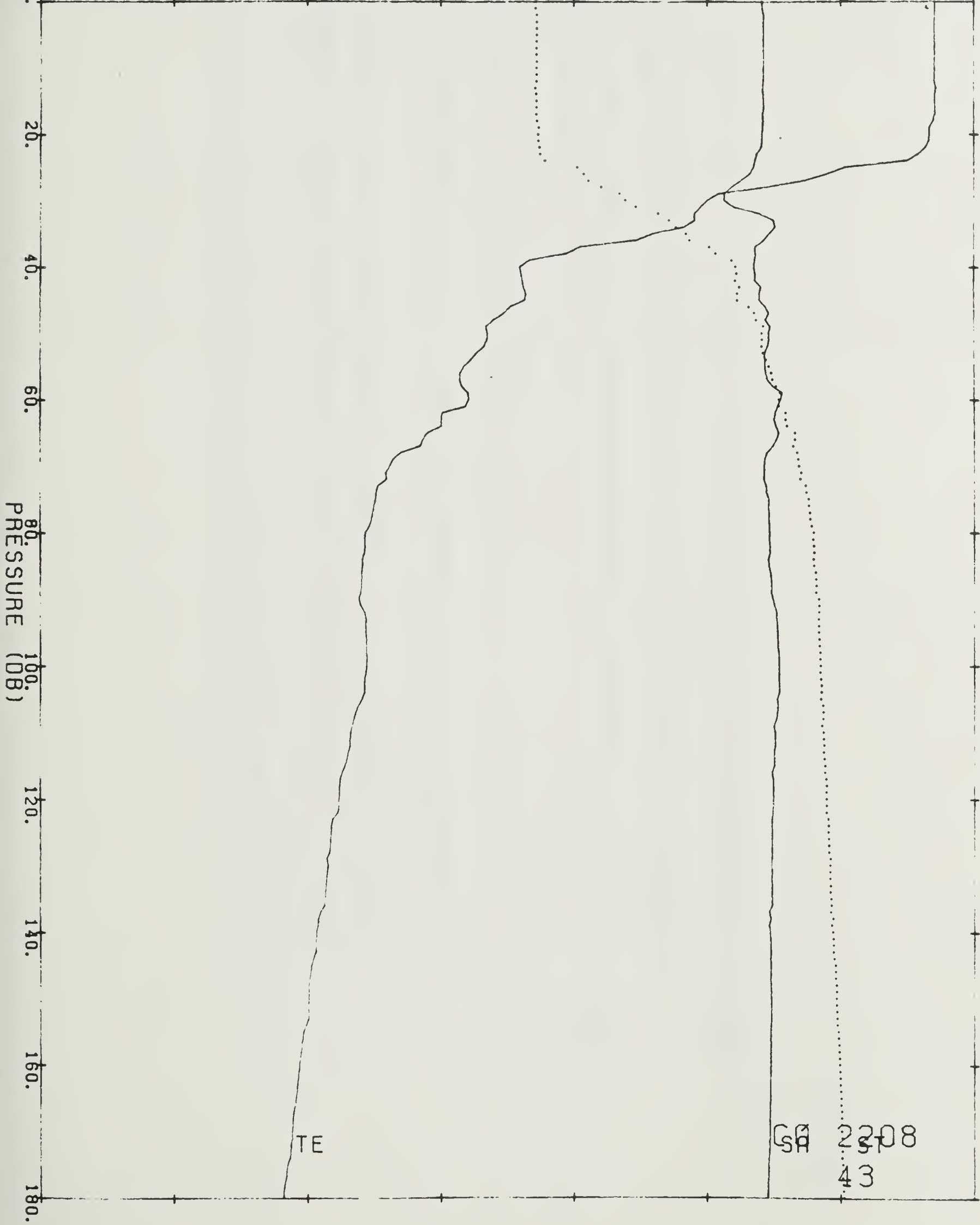
21. 22. 23. 24. 25. 26. 27. 28.

SALINITY (PPT)

30. 31. 32. 33. 34. 35. 36. 37.

TEMPERATURE (DEG C)

8. 10. 12. 14. 16. 18. 20. 22.



TE

SA 2208
43

SHIP CO CRUISE 22-08 STATION 44 POSITION 37 34.80 N 34 7.80 W
 LOCAL TIME 742 DATE 79/ 6/22 WIND = DIR = DEPTH=1056M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS	
0	21.305	35.450	24.755	318.1	0.000	1526.1	0.0	
9	21.307	35.451	24.755	318.5	.030	1526.3	9.5	
15	21.310	35.453	24.756	318.6	.049	1526.4	15.5	
21	21.089	35.457	24.819	312.8	.068	1525.9	21.5	
27	19.136	35.578	25.429	254.9	.085	1520.9	27.5	
33	17.327	35.736	26.002	200.6	.099	1516.0	33.5	
39	16.698	35.742	26.157	186.1	.111	1514.2	39.5	
45	15.922	35.752	26.345	168.4	.121	1511.9	45.5	
51	15.361	35.754	26.474	156.3	.131	1510.3	51.5	
57	14.978	35.730	26.541	150.0	.140	1509.2	57.5	
63	14.252	35.628	26.619	142.7	.149	1506.8	63.5	
69	13.856	35.584	26.669	138.1	.157	1505.6	69.5	
75	13.691	35.573	26.695	135.8	.166	1505.1	75.5	
81	13.410	35.560	26.744	131.3	.174	1504.3	81.5	
87	13.078	35.530	26.789	127.2	.181	1503.2	87.5	
93	12.815	35.509	26.825	123.8	.189	1502.4	93.5	
99	12.685	35.510	26.852	121.5	.196	1502.1	99.5	
105	12.524	35.509	26.883	118.6	.203	1501.6	105.5	
111	12.336	35.494	26.908	116.3	.210	1501.1	111.5	
117	12.216	35.479	26.920	115.4	.217	1500.7	117.5	
123	12.172	35.474	26.925	115.1	.224	1500.7	123.5	
129	12.144	35.482	26.936	114.1	.231	1500.7	129.5	
135	12.120	35.500	26.955	112.5	.238	1500.7	135.5	
141	12.039	35.504	26.974	110.9	.245	1500.5	141.5	
147	11.897	35.491	26.991	109.4	.251	1500.1	147.5	
153	11.790	35.481	27.003	108.3	.258	1499.9	153.5	
159	11.726	35.473	27.010	107.8	.264	1499.7	159.5	
164	11.684	35.470	27.015	107.4	.271	1499.7	165.5	
170	11.644	35.469	27.022	106.9	.277	1499.6	171.5	
176	11.609	35.470	27.029	106.4	.284	1499.6	177.5	
182	11.498	35.459	27.042	105.3	.290	1499.3	183.5	
188	11.312	35.438	27.060	103.7	.296	1498.7	189.5	
194	11.202	35.428	27.073	102.6	.302	1498.4	195.5	
200	11.088	35.428	27.094	100.7	.309	1498.1	201.5	
206	10.873	35.413	27.121	98.2	.315	1497.4	207.5	
212	10.734	35.385	27.124	97.9	.320	1497.0	213.5	
218	10.552	35.365	27.141	96.4	.326	1496.4	219.5	
224	10.345	35.343	27.160	94.6	.332	1495.7	225.5	
230	10.274	35.340	27.170	93.8	.338	1495.6	231.5	
236	10.225	35.335	27.175	93.5	.343	1495.5	237.5	
242	10.174	35.325	27.176	93.5	.349	1495.4	243.5	
248	10.092	35.316	27.184	92.9	.354	1495.2	249.5	
254	9.962	35.302	27.195	91.9	.360	1494.8	255.5	
275	9.726	35.277	27.216	90.2	.379	1494.3	276.9	
300	8.909	35.185	27.278	84.4	.401	1491.5	302.1	
325	7.951	35.121	27.376	75.0	.422	1488.2	327.3	
350	7.544	35.101	27.421	70.9	.440	1487.0	352.5	
375	6.916	35.081	27.495	63.9	.457	1485.0	377.7	
400	6.431	35.055	27.540	59.6	.472	1483.4	402.9	
425	6.047	35.043	27.581	55.8	.487	1482.3	428.2	
450	5.739	35.032	27.611	53.0	.501	1481.5	453.4	
475	5.480	35.025	27.638	50.5	.514	1480.8	478.6	
500	5.398	35.033	27.654	49.2	.526	1480.9	503.9	
600	4.969	35.017	27.693	46.3	.575	1480.8	604.9	
700	4.653	35.005	27.719	44.5	.620	1481.1	705.9	
800	4.438	34.998	27.738	43.4	.665	1481.9	807.0	
900	4.260	34.996	27.755	42.5	.708	1482.8	908.1	
917	4.257	34.997	27.757	42.5	.716	1483.1	925.0	
DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AM
19		35.433	5.30					
59		35.730	4.74					
1002		35.005	5.79					
1056		34.996	5.88					

SIGMA-T

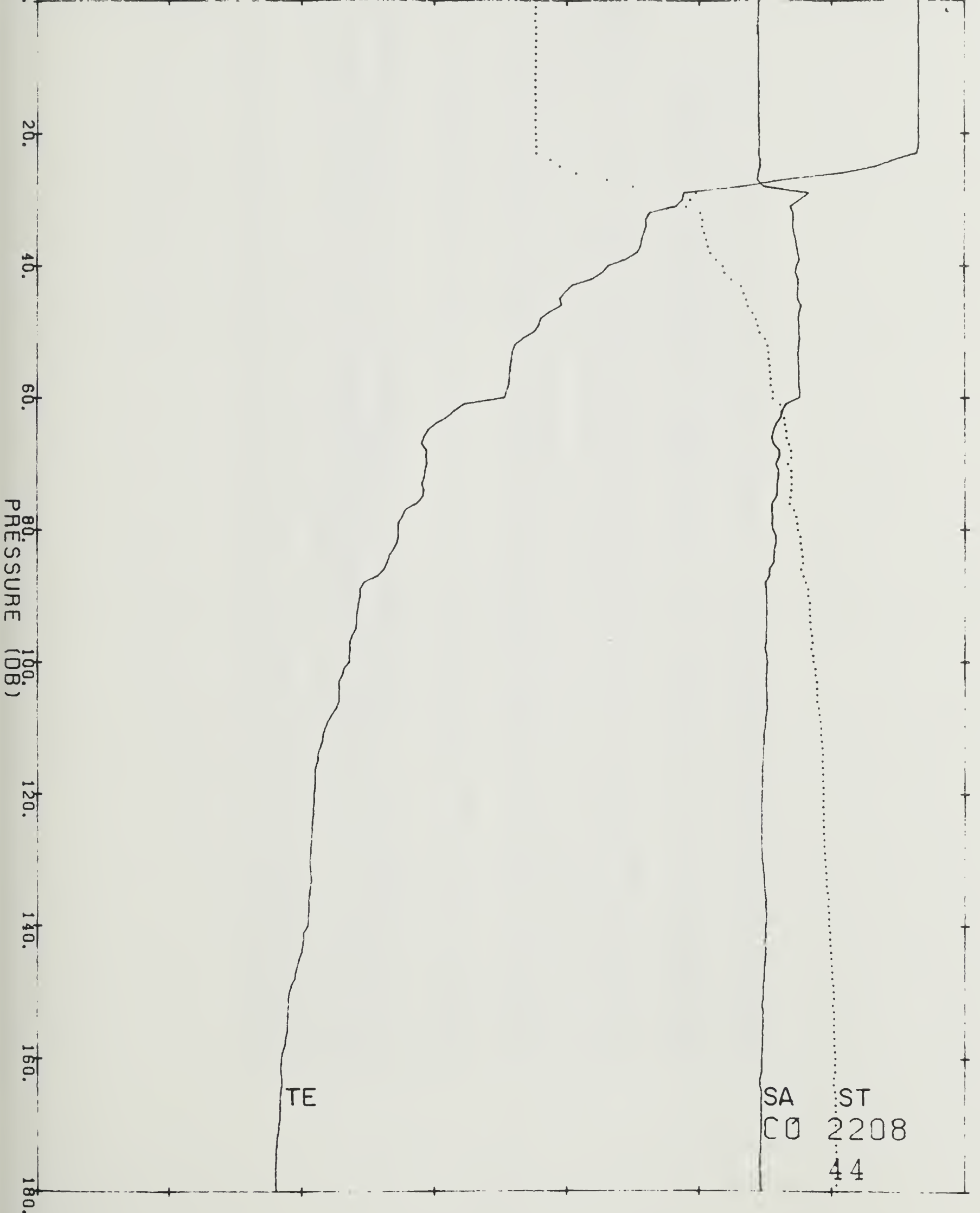
21. 22. 23. 24. 25. 26. 27. 28.

SALINITY (PPT)

30. 31. 32. 33. 34. 35. 36. 37.

TEMPERATURE (DEG C)

8. 10. 12. 14. 16. 18. 20. 22.



SHIP CO CRUISE 22-08 STATION 45 POSITION 37 30.00 N 33 57.00 W
 LOCAL TIME 1055 DATE 79/ 6/22 WIND = DIR = DEPTH=1703M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	21.147	35.357	24.727	320.8	.000	1525.6	.0
5	21.113	35.378	24.752	318.5	.016	1525.6	5.0
10	21.116	35.379	24.752	318.7	.032	1525.7	10.0
15	21.118	35.382	24.754	318.7	.048	1525.8	14.9
20	21.112	35.382	24.756	318.7	.064	1525.9	19.9
25	20.987	35.371	24.781	316.5	.079	1525.6	24.9
30	18.820	35.400	25.374	260.2	.094	1519.8	29.9
35	16.822	35.316	25.800	219.8	.106	1514.0	34.9
40	15.549	35.374	26.139	187.7	.116	1510.2	39.9
45	14.631	35.345	26.319	170.6	.125	1507.4	44.9
50	13.682	35.270	26.463	157.1	.133	1504.3	49.9
55	13.237	35.291	26.571	146.9	.141	1502.9	54.9
60	13.453	35.469	26.665	138.2	.148	1503.9	59.9
65	12.985	35.443	26.740	131.2	.155	1502.4	64.9
70	13.030	35.488	26.766	128.9	.161	1502.7	69.9
75	12.412	35.369	26.796	126.0	.168	1500.6	74.9
80	12.203	35.348	26.821	123.8	.175	1499.9	80.9
85	12.343	35.413	26.844	121.8	.181	1500.6	85.9
90	12.405	35.455	26.865	120.0	.187	1500.9	90.9
95	12.292	35.468	26.897	117.0	.193	1500.6	95.9
100	12.303	35.464	26.892	117.7	.199	1500.7	100.9
105	12.205	35.455	26.904	116.6	.205	1500.5	105.9
110	12.241	35.484	26.919	115.3	.211	1500.7	110.9
115	12.163	35.486	26.936	113.8	.216	1500.5	115.9
120	12.170	35.491	26.938	113.7	.222	1500.6	120.9
125	12.152	35.494	26.944	113.3	.228	1500.7	125.9
130	12.066	35.500	26.966	111.4	.233	1500.5	130.9
135	12.060	35.486	26.956	112.4	.239	1500.5	135.9
140	11.963	35.475	26.966	111.6	.245	1500.2	140.9
145	11.911	35.471	26.973	111.0	.250	1500.1	145.9
150	11.868	35.470	26.980	110.5	.256	1500.1	150.9
155	11.881	35.489	26.992	109.4	.261	1500.2	155.9
160	11.727	35.439	26.983	110.4	.267	1499.7	160.9
165	11.780	35.500	27.020	107.0	.272	1500.0	165.9
170	11.787	35.499	27.018	107.3	.277	1500.1	170.9
175	11.753	35.500	27.025	106.8	.283	1500.1	175.9
180	11.679	35.497	27.037	105.8	.288	1499.9	180.9
185	11.500	35.466	27.047	104.9	.293	1499.4	185.9
190	11.309	35.439	27.061	103.6	.299	1498.7	190.9
195	11.114	35.411	27.075	102.3	.304	1498.1	195.9
200	11.002	35.403	27.090	101.0	.309	1497.8	200.9
225	10.350	35.327	27.147	95.9	.334	1495.8	226.9
250	9.648	35.245	27.204	90.8	.358	1493.5	251.9
275	9.194	35.200	27.244	87.3	.380	1492.2	276.9
300	8.590	35.155	27.305	81.6	.401	1490.3	301.9
325	7.951	35.115	27.372	75.4	.421	1488.2	326.9
350	7.432	35.092	27.430	70.0	.440	1486.6	352.9
375	6.999	35.073	27.477	65.7	.457	1485.3	377.9
400	6.765	35.066	27.504	63.3	.473	1484.8	402.9
425	6.481	35.058	27.536	60.4	.488	1484.1	427.9
450	6.076	35.049	27.582	56.1	.503	1482.8	452.9
475	5.864	35.046	27.607	53.9	.517	1482.4	478.9
500	5.690	35.042	27.625	52.3	.530	1482.1	503.9
600	5.048	35.034	27.697	46.0	.580	1481.1	604.9
700	4.720	35.028	27.730	43.6	.625	1481.4	705.9
800	4.513	35.018	27.745	42.9	.669	1482.2	806.9
900	4.241	34.992	27.754	42.5	.712	1482.7	907.9
1000	4.085	34.985	27.765	42.1	.755	1483.7	1008.9
1100	3.977	34.980	27.773	42.1	.798	1485.0	1110.9
1200	3.886	34.975	27.778	42.2	.840	1486.2	1211.9
1300	3.823	34.976	27.786	42.3	.883	1487.6	1312.9
1400	3.775	34.977	27.791	42.5	.926	1489.1	1413.9
1500	3.741	34.980	27.797	42.7	.969	1490.7	1515.9
1600	3.656	34.982	27.807	42.3	1.012	1492.0	1616.9
1700	3.600	34.986	27.816	42.1	1.055	1493.5	1718.9
1703	3.587	34.986	27.818	41.9	1.056	1493.4	1721.9

SIGMA-T

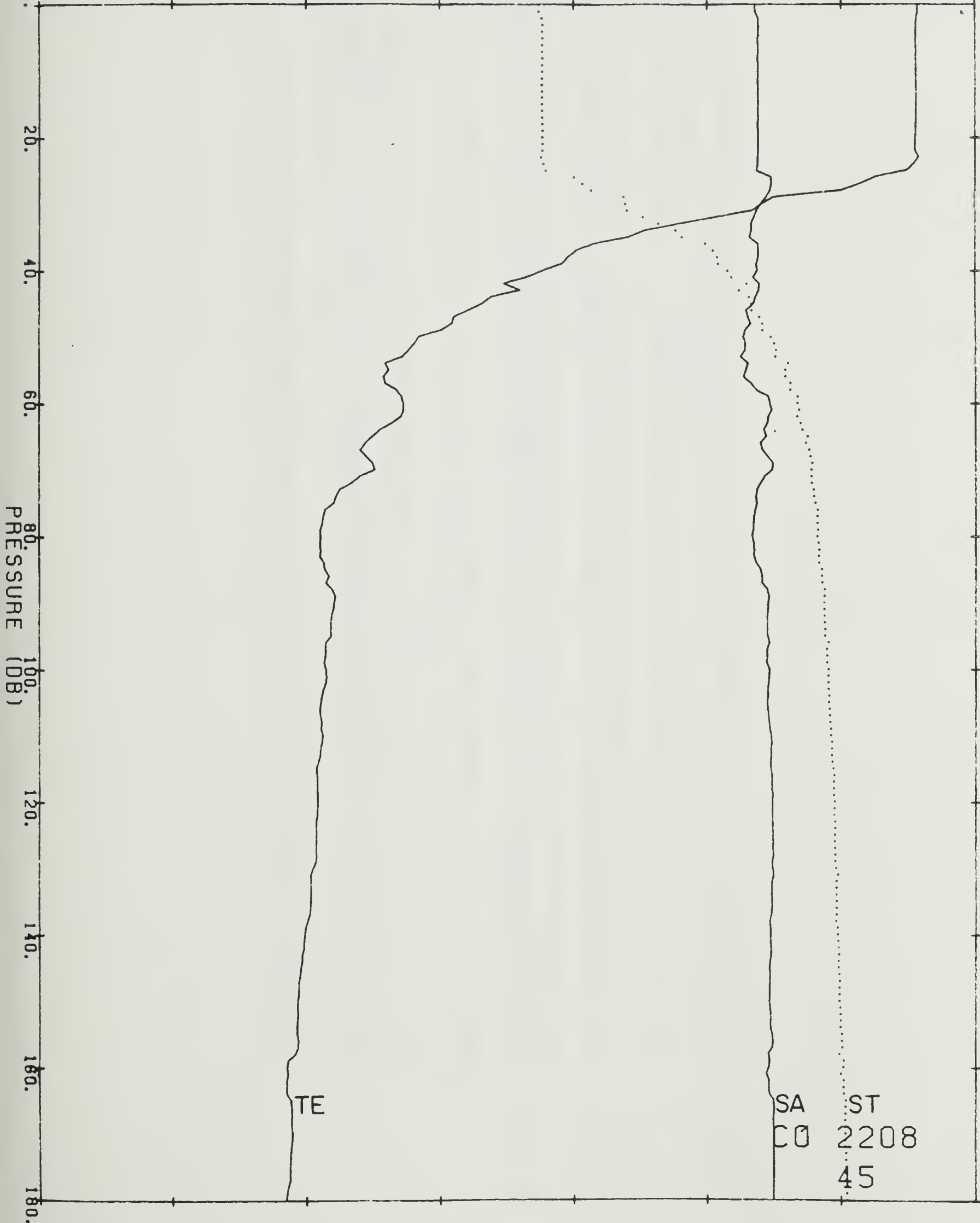
21. 22. 23. 24. 25. 26. 27. 28.

SALINITY (PPT)

30. 31. 32. 33. 34. 35. 36. 37.

TEMPERATURE (DEG C)

8. 10. 12. 14. 16. 18. 20. 22.



SHIP CO CRUISE 22-08 STATION 46 POSITION 37 23.83 N 73 44.11 W
 LOCAL TIME 1930 DATE 79/ 6/22 WIND = DIR * DEPTH=2146M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	21.511	35.394	24.655	327.6	.000	1526.6	.0
5	21.504	35.398	24.660	327.3	.016	1526.7	5.0
10	21.507	35.396	24.658	327.7	.033	1526.8	10.0
15	21.488	35.403	24.668	326.9	.049	1526.8	14.9
20	21.427	35.420	24.698	324.3	.065	1526.8	19.9
25	21.221	35.383	24.727	321.7	.081	1526.3	24.9
30	17.544	35.695	25.917	208.5	.095	1516.5	29.9
35	16.534	35.564	26.058	195.2	.105	1513.4	34.9
40	15.826	35.660	26.296	172.8	.114	1511.4	39.9
45	16.510	35.958	26.367	166.3	.122	1514.0	44.9
50	15.944	35.877	26.436	159.8	.130	1512.2	49.9
55	15.621	35.872	26.506	153.3	.138	1511.3	54.9
60	15.719	36.008	26.589	145.7	.146	1511.9	59.9
65	15.474	35.969	26.614	143.4	.153	1511.1	64.9
70	14.898	35.839	26.642	140.8	.160	1509.2	69.9
75	14.704	35.871	26.710	134.5	.167	1508.7	74.9
80	14.294	35.822	26.761	129.8	.175	1507.5	80.9
85	14.239	35.837	26.784	127.7	.181	1507.4	85.9
90	13.913	35.788	26.816	124.9	.188	1506.4	90.9
95	13.780	35.768	26.828	123.8	.194	1506.0	95.9
100	13.625	35.722	26.825	124.2	.200	1505.5	100.9
105	13.398	35.705	26.859	121.1	.206	1504.8	105.9
110	13.289	35.687	26.867	120.4	.212	1504.5	110.9
115	13.154	35.672	26.883	119.0	.218	1504.1	115.9
120	13.092	35.662	26.888	118.7	.224	1504.0	120.9
125	12.996	35.648	26.897	118.0	.230	1503.7	125.9
130	12.946	35.640	26.901	117.7	.236	1503.6	130.9
135	12.858	35.630	26.910	116.9	.242	1503.4	135.9
140	12.765	35.617	26.919	116.2	.248	1503.1	140.9
145	12.673	35.602	26.926	115.7	.253	1502.9	145.9
150	12.590	35.580	26.925	115.9	.259	1502.7	150.9
155	12.389	35.550	26.941	114.4	.265	1502.0	155.9
160	12.387	35.557	26.947	114.0	.271	1502.1	160.9
165	12.242	35.543	26.965	112.4	.276	1501.7	165.9
170	12.182	35.528	26.965	112.5	.282	1501.5	170.9
175	12.078	35.517	26.976	111.5	.288	1501.3	175.9
180	11.988	35.501	26.981	111.1	.293	1501.0	180.9
185	11.808	35.483	27.002	109.3	.299	1500.4	185.9
190	11.737	35.483	27.015	108.1	.304	1500.3	190.9
195	11.698	35.484	27.023	107.4	.310	1500.2	195.9
200	11.579	35.472	27.036	106.3	.315	1499.9	200.9
225	11.036	35.403	27.083	102.2	.342	1498.3	226.9
250	10.323	35.320	27.146	96.6	.367	1496.1	251.9
275	9.677	35.252	27.204	91.3	.390	1494.0	276.9
300	9.040	35.184	27.256	86.5	.413	1492.0	301.9
325	8.304	35.133	27.332	79.4	.433	1489.6	326.9
350	7.626	35.097	27.406	72.4	.453	1487.4	352.9
375	7.223	35.082	27.452	68.2	.471	1486.2	377.9
400	6.819	35.066	27.496	64.1	.487	1485.0	402.9
425	6.586	35.063	27.526	61.5	.503	1484.5	427.9
450	6.325	35.058	27.557	58.7	.518	1483.8	452.9
475	5.887	35.042	27.601	54.5	.533	1482.5	478.9
500	5.604	35.045	27.638	50.9	.546	1481.8	503.9
600	5.005	35.028	27.697	45.9	.595	1481.0	604.9
700	4.695	35.029	27.734	43.2	.640	1481.3	705.9
800	4.509	35.023	27.750	42.5	.683	1482.2	806.9
900	4.317	35.012	27.762	42.0	.726	1483.1	907.9
1000	4.124	34.998	27.772	41.6	.768	1483.9	1008.9
1100	3.994	34.990	27.779	41.6	.810	1485.0	1110.9
1200	3.926	34.989	27.785	41.7	.852	1486.4	1211.9
1300	3.838	34.988	27.794	41.6	.894	1487.7	1312.9
1400	3.779	34.987	27.799	41.8	.936	1489.1	1413.9
1500	3.713	34.991	27.809	41.5	.979	1490.6	1515.9
1600	3.674	34.992	27.814	41.8	1.021	1492.1	1616.9
1700	3.598	34.990	27.820	41.7	1.063	1493.5	1718.9
1800	3.520	34.987	27.825	41.7	1.106	1494.8	1819.9
1900	3.412	34.984	27.833	41.3	1.148	1496.0	1921.9
2000	3.300	34.982	27.843	40.7	1.190	1497.3	2023.9
2100	3.172	34.980	27.853	39.8	1.230	1498.4	2124.9
2146	3.170	34.978	27.852	40.2	1.249	1499.2	2171.9

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AM
13	21.420	35.390	5.27					
85	14.070	35.803	4.40					
505		35.034						
997		34.986	5.99					
1491	3.710	34.978						
2143		35.060	5.65					

SIGMA-T

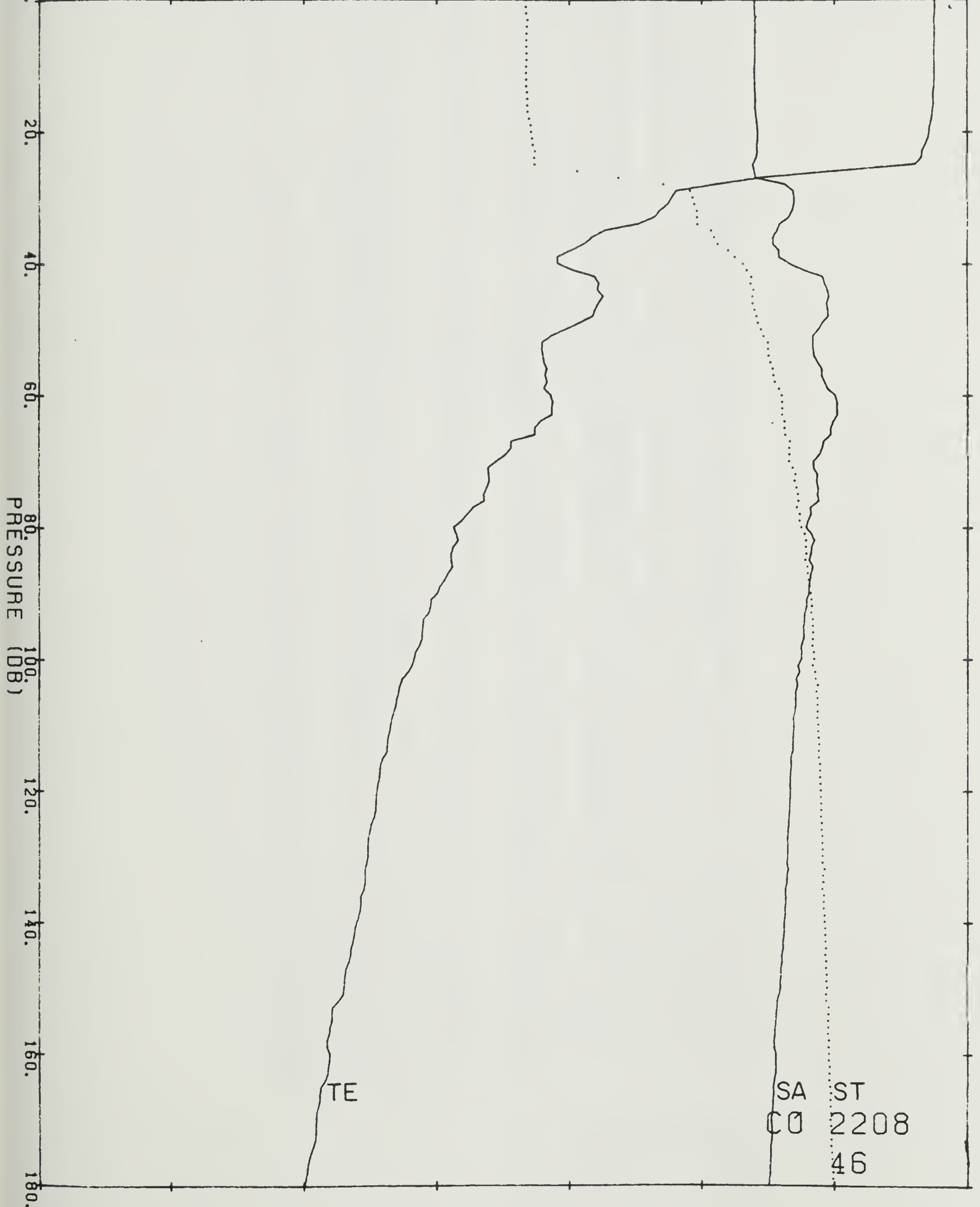
21. 22. 23. 24. 25. 26. 27. 28.

SALINITY (PPT)

30. 31. 32. 33. 34. 35. 36. 37.

TEMPERATURE (DEG C)

8. 10. 12. 14. 16. 18. 20. 22.



TE

SA ST
CO 2208
46

SHIP CO CRUISE 22-08 STATION 47 POSITION 37 17.40 N 73 28.30 W
 LOCAL TIME 219 DATE 79/ 6/23 WIND = DIR = DEPTH=2555M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	21.960	35.360	24.504	342.0	.000	1527.7	.0
5	21.957	35.359	24.504	342.2	.017	1527.8	5.0
10	21.946	35.355	24.504	342.3	.034	1527.9	10.0
15	21.951	35.347	24.497	343.2	.051	1528.0	14.9
20	21.943	35.353	24.504	342.8	.068	1528.0	19.9
25	21.897	35.368	24.528	340.7	.085	1528.0	24.9
30	18.530	35.525	25.543	244.1	.100	1519.1	29.9
35	16.594	35.625	26.091	192.1	.111	1513.7	34.9
40	16.350	35.715	26.218	180.3	.120	1513.1	39.9
45	16.160	35.709	26.257	176.7	.129	1512.6	44.9
50	15.607	35.696	26.374	165.7	.138	1511.0	49.9
55	15.075	35.661	26.466	157.1	.146	1509.3	54.9
60	14.418	35.579	26.546	149.6	.153	1507.2	59.9
65	14.140	35.607	26.627	142.0	.161	1506.4	64.9
70	14.177	35.693	26.686	136.6	.168	1506.8	69.9
75	14.003	35.683	26.715	133.9	.174	1506.3	74.9
80	13.923	35.696	26.742	131.5	.182	1506.1	80.9
85	13.857	35.709	26.766	129.4	.189	1506.0	85.9
90	13.605	35.681	26.797	126.5	.195	1505.2	90.9
95	13.246	35.640	26.839	122.6	.202	1504.1	95.9
100	13.177	35.637	26.851	121.6	.208	1503.9	100.9
105	13.143	35.644	26.864	120.6	.214	1503.9	105.9
110	13.122	35.645	26.869	120.3	.220	1503.9	110.9
115	12.986	35.669	26.915	116.0	.226	1503.5	115.9
120	12.975	35.649	26.902	117.4	.231	1503.6	120.9
125	12.884	35.660	26.928	114.9	.237	1503.4	125.9
130	12.781	35.644	26.937	114.3	.243	1503.1	130.9
135	12.670	35.632	26.950	113.2	.249	1502.8	135.9
140	12.631	35.632	26.957	112.6	.254	1502.7	140.9
145	12.556	35.622	26.964	112.0	.260	1502.5	145.9
150	12.420	35.605	26.978	110.8	.265	1502.1	150.9
155	12.287	35.583	26.987	110.0	.271	1501.7	155.9
160	12.119	35.572	27.011	107.8	.276	1501.2	160.9
165	11.957	35.552	27.027	106.4	.282	1500.7	165.9
170	11.807	35.522	27.032	106.0	.287	1500.2	170.9
175	11.556	35.500	27.063	103.2	.292	1499.4	175.9
180	11.498	35.490	27.066	103.0	.297	1499.3	180.9
185	11.291	35.454	27.076	102.1	.303	1498.6	185.9
190	11.183	35.439	27.084	101.4	.308	1498.3	190.9
195	11.026	35.424	27.102	99.8	.313	1497.8	195.9
200	10.867	35.400	27.112	98.9	.318	1497.3	200.9
225	10.269	35.318	27.154	95.2	.343	1495.5	226.9
250	9.692	35.247	27.198	91.4	.366	1493.7	251.9
275	9.019	35.181	27.257	85.9	.388	1491.5	276.9
300	8.417	35.138	27.319	80.2	.409	1489.6	301.9
325	7.954	35.118	27.374	75.2	.429	1488.2	326.9
350	7.261	35.089	27.452	67.8	.447	1485.9	352.9
375	6.798	35.075	27.506	62.7	.464	1484.5	377.9
400	6.348	35.062	27.557	58.0	.479	1483.1	402.9
425	6.113	35.046	27.575	56.4	.493	1482.6	427.9
450	5.826	35.043	27.609	53.3	.507	1481.8	452.9
475	5.630	35.042	27.633	51.2	.520	1481.5	478.9
500	5.465	35.038	27.650	49.7	.533	1481.2	503.9
600	4.989	35.035	27.705	45.2	.581	1480.9	604.9
700	4.666	35.013	27.724	44.0	.626	1481.2	705.9
800	4.467	35.018	27.750	42.3	.669	1482.0	806.9
900	4.286	35.011	27.765	41.6	.712	1482.9	907.9
1000	4.134	35.002	27.774	41.4	.754	1484.0	1008.9
1100	4.045	34.998	27.780	41.6	.796	1485.3	1110.9
1200	3.936	34.992	27.787	41.6	.838	1486.5	1211.9
1300	3.868	34.992	27.794	41.7	.880	1487.8	1312.9
1400	3.813	34.994	27.801	41.7	.922	1489.3	1413.9
1500	3.704	34.988	27.807	41.6	.965	1490.5	1515.9
1600	3.632	34.987	27.814	41.6	1.007	1491.9	1616.9
1700	3.572	34.990	27.822	41.4	1.049	1493.3	1718.9
1800	3.512	34.989	27.827	41.5	1.091	1494.8	1819.9
1900	3.410	34.985	27.834	41.2	1.133	1496.0	1921.9
2000	3.328	34.984	27.841	40.9	1.175	1497.4	2023.9
2100	3.241	34.979	27.846	40.8	1.216	1498.7	2124.9
2200	3.132	34.977	27.855	40.2	1.258	1499.9	2226.9
2265	3.062	34.973	27.858	39.9	1.284	1500.8	2292.9

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AM
17	21.740	35.326	5.22					
42	15.420	35.705						
1006	4.130	34.991	5.94					
1498		34.975						
1877		34.964	6.12					
2555	2.600	34.939	6.19					

SIGMA-T

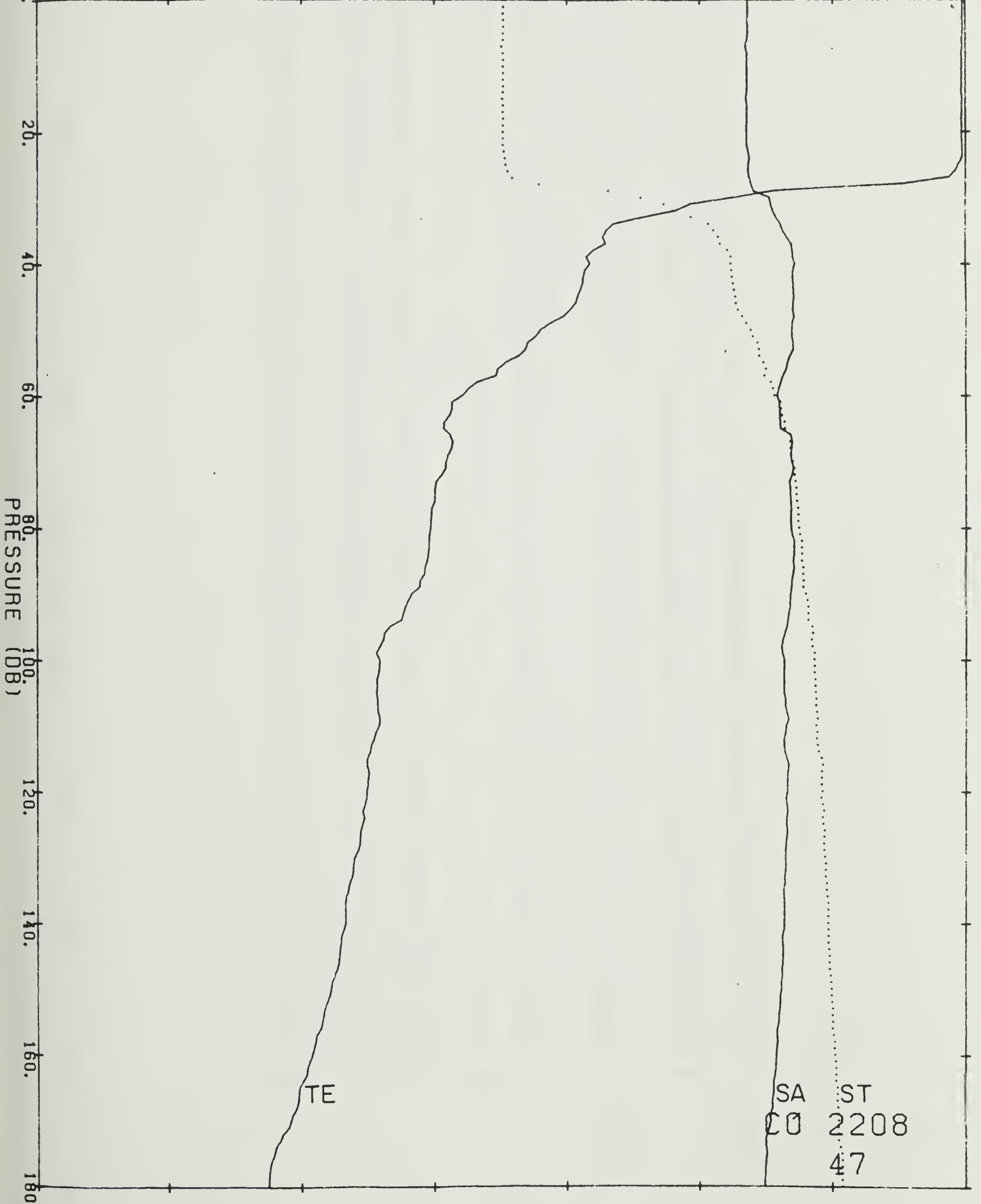
21. 22. 23. 24. 25. 26. 27. 28.

SALINITY (PPT)

30. 31. 32. 33. 34. 35. 36. 37.

TEMPERATURE (DEG C)

8. 10. 12. 14. 16. 18. 20. 22.



SHIP CO CRUISE 22-08 STATION 48 POSITION 37 11.00 N 73 51.00 W
 LOCAL TIME 706 DATE 79/ 6/22 WIND = DIR = DEPTH=2254M

DTH	TEM	SAL	SGT	AND	DYN	SVL	PRS
0	21.448	35.507	24.758	317.8	0.000	1526.6	0.0
9	21.453	35.508	24.758	318.2	.030	1526.8	9.5
15	21.462	35.512	24.758	318.4	.049	1526.9	15.5
21	21.477	35.520	24.760	318.4	.068	1527.0	21.5
27	21.211	35.522	24.835	311.5	.087	1526.4	27.5
33	18.946	35.527	25.439	254.1	.104	1520.4	33.5
39	15.970	35.501	26.141	187.5	.118	1511.7	39.5
45	14.633	35.429	26.384	164.6	.128	1507.5	45.5
51	13.888	35.387	26.511	152.6	.138	1505.1	51.5
57	13.246	35.430	26.677	137.0	.146	1503.2	57.5
63	13.146	35.486	26.741	131.1	.154	1503.0	63.5
69	12.949	35.473	26.770	128.4	.162	1502.4	69.5
75	12.586	35.433	26.812	124.6	.170	1501.2	75.5
81	12.395	35.444	26.858	120.4	.177	1500.7	81.5
87	12.343	35.456	26.878	118.7	.184	1500.6	87.5
93	12.302	35.461	26.889	117.7	.191	1500.6	93.5
99	12.322	35.483	26.903	116.6	.198	1500.8	99.5
105	12.342	35.501	26.912	115.8	.205	1501.0	105.5
111	12.271	35.494	26.921	115.2	.212	1500.8	111.5
117	12.195	35.486	26.930	114.5	.219	1500.7	117.5
123	12.159	35.489	26.939	113.7	.226	1500.6	123.5
129	12.098	35.487	26.949	112.9	.233	1500.5	129.5
135	12.042	35.482	26.956	112.4	.240	1500.4	135.5
141	11.977	35.474	26.962	111.9	.246	1500.3	141.5
147	11.901	35.469	26.973	111.0	.253	1500.1	147.5
153	11.817	35.469	26.989	109.7	.260	1499.9	153.5
159	11.764	35.474	27.003	108.5	.266	1499.8	159.5
164	11.755	35.491	27.018	107.2	.273	1499.9	165.5
170	11.703	35.492	27.029	106.3	.279	1499.9	171.5
176	11.607	35.482	27.039	105.5	.285	1499.6	177.5
182	11.478	35.465	27.050	104.5	.292	1499.2	183.5
188	11.366	35.452	27.061	103.6	.298	1498.9	189.5
194	11.278	35.442	27.069	102.9	.304	1498.7	195.5
200	11.163	35.420	27.073	102.7	.310	1498.4	201.5
206	11.033	35.399	27.081	102.0	.316	1498.0	207.5
212	10.876	35.417	27.123	98.1	.322	1497.5	213.5
218	10.695	35.375	27.123	98.2	.328	1496.9	219.5
224	10.487	35.351	27.142	96.5	.334	1496.3	225.5
230	10.322	35.332	27.156	95.2	.340	1495.7	231.5
236	10.179	35.314	27.167	94.3	.346	1495.3	237.5
242	10.010	35.292	27.179	93.2	.351	1494.8	243.5
248	9.850	35.271	27.190	92.2	.357	1494.3	249.5
254	9.738	35.258	27.199	91.4	.362	1493.9	255.5
275	9.436	35.234	27.230	88.7	.382	1493.1	276.9
300	8.813	35.177	27.288	83.4	.403	1491.2	302.1
325	8.158	35.133	27.355	77.2	.423	1489.0	327.3
350	7.566	35.103	27.419	71.1	.442	1487.1	352.5
375	6.917	35.074	27.489	64.5	.459	1485.0	377.7
400	6.598	35.072	27.531	60.6	.475	1484.1	402.9
425	6.317	35.070	27.567	57.3	.490	1483.4	428.1
450	6.076	35.056	27.587	55.6	.504	1482.9	453.4
475	5.826	35.047	27.612	53.3	.518	1482.3	478.6
500	5.576	35.047	27.643	50.5	.531	1481.7	503.8
600	5.076	35.040	27.699	45.9	.580	1481.3	604.8
700	4.728	35.028	27.729	43.7	.625	1481.5	705.9
800	4.522	35.025	27.750	42.5	.668	1482.3	806.9
900	4.348	35.019	27.764	41.8	.711	1483.2	908.0
1000	4.136	35.003	27.775	41.4	.753	1484.0	1009.2
1100	4.019	34.997	27.782	41.4	.795	1485.1	1110.4
1200	3.896	34.987	27.787	41.5	.837	1486.3	1211.7
1300	3.832	34.989	27.795	41.5	.879	1487.7	1313.0
1400	3.795	34.992	27.802	41.6	.921	1489.2	1414.4
1500	3.752	34.995	27.808	41.8	.963	1490.7	1515.8
1600	3.695	34.998	27.816	41.6	1.006	1492.2	1617.3
1700	3.606	34.998	27.825	41.3	1.048	1493.5	1718.8
1800	3.524	34.997	27.833	41.1	1.089	1494.8	1820.3
1900	3.408	34.991	27.839	40.7	1.131	1496.0	1921.9
2000	3.317	34.989	27.846	40.4	1.172	1497.3	2023.6
2100	3.233	34.984	27.850	40.4	1.213	1498.7	2125.3
2200	3.141	34.982	27.858	39.9	1.254	1500.0	2227.1
2254	3.097	34.981	27.861	39.8	1.276	1500.7	2282.0

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AM
17		35.438						
368		35.074						
1494		34.970						
1967		34.965						
2250		35.011						

SIGMA-T

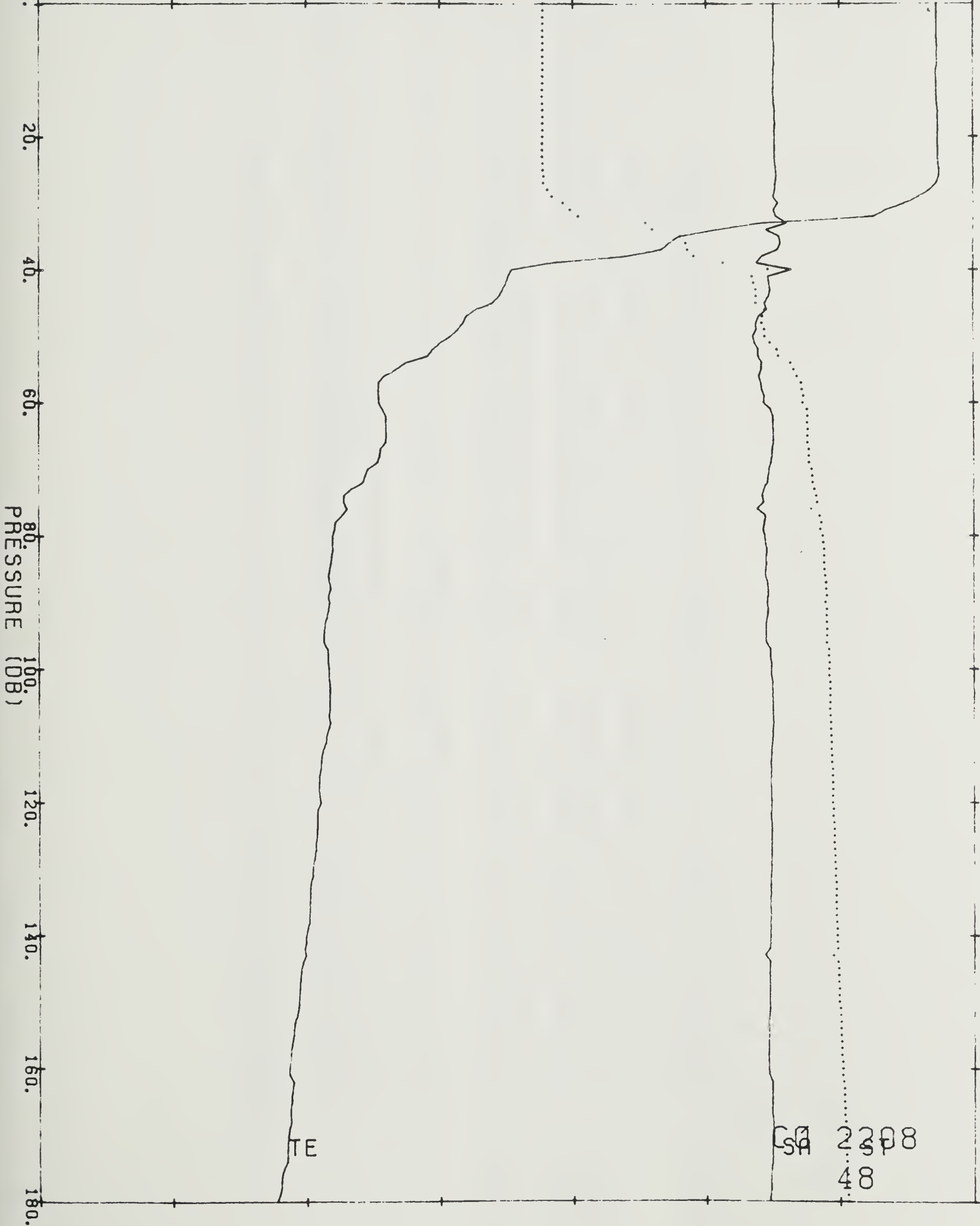
21. 22. 23. 24. 25. 26. 27. 28.

SALINITY (PPT)

30. 31. 32. 33. 34. 35. 36. 37.

TEMPERATURE (DEG C)

8. 10. 12. 14. 16. 18. 20. 22.



SHIP CO CRUISE 22-08 STATION 49 POSITION 36 55.50 N 74 7.00 W
 LOCAL TIME 1226 DATE 79/ 6/23 WIND = DIR = DEPTH=2301M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	21.282	35.310	24.654	327.7	.000	1525.9	.0
5	21.249	35.330	24.678	325.6	.016	1525.9	5.0
10	21.183	35.330	24.697	324.0	.033	1525.9	10.0
15	21.077	35.341	24.734	320.6	.048	1525.7	14.9
20	21.022	35.334	24.744	319.9	.064	1525.6	19.9
25	21.009	35.334	24.747	319.7	.080	1525.6	24.9
30	18.112	35.385	25.540	244.4	.095	1517.8	29.9
35	16.520	35.577	26.072	194.0	.105	1513.4	34.9
40	15.196	35.563	26.364	166.4	.115	1509.4	39.9
45	14.853	35.607	26.473	156.1	.123	1508.4	44.9
50	14.329	35.640	26.612	143.0	.130	1506.8	49.9
55	14.032	35.614	26.656	139.0	.137	1505.9	54.9
60	13.519	35.570	26.729	132.1	.144	1504.3	59.9
65	12.915	35.493	26.793	126.2	.150	1502.3	64.9
70	12.801	35.503	26.823	123.4	.157	1502.0	69.9
75	12.732	35.508	26.841	121.8	.163	1501.8	74.9
80	12.750	35.543	26.865	119.8	.170	1502.0	80.9
85	12.525	35.516	26.888	117.6	.176	1501.3	85.9
90	12.340	35.474	26.892	117.4	.182	1500.7	90.9
95	12.533	35.546	26.910	115.8	.188	1501.5	95.9
100	12.210	35.472	26.916	115.4	.193	1500.4	100.9
105	12.152	35.470	26.925	114.6	.199	1500.3	105.9
110	12.215	35.489	26.928	114.4	.205	1500.6	110.9
115	12.335	35.524	26.932	114.3	.211	1501.2	115.9
120	12.167	35.500	26.946	113.0	.216	1500.6	120.9
125	12.109	35.486	26.946	113.1	.222	1500.5	125.9
130	12.023	35.478	26.957	112.2	.228	1500.3	130.9
135	11.980	35.475	26.963	111.8	.233	1500.2	135.9
140	11.864	35.460	26.973	110.9	.239	1499.9	140.9
145	11.818	35.457	26.980	110.4	.244	1499.8	145.9
150	11.798	35.460	26.986	109.9	.250	1499.8	150.9
155	11.741	35.464	27.000	108.7	.255	1499.7	155.9
160	11.648	35.457	27.012	107.6	.261	1499.4	160.9
165	11.634	35.458	27.015	107.4	.266	1499.5	165.9
170	11.625	35.461	27.019	107.2	.271	1499.5	170.9
175	11.538	35.457	27.032	106.0	.277	1499.3	175.9
180	11.494	35.454	27.038	105.6	.282	1499.2	180.9
185	11.374	35.441	27.051	104.5	.287	1498.9	185.9
190	11.303	35.437	27.061	103.6	.292	1498.7	190.9
195	11.230	35.426	27.066	103.3	.298	1498.5	195.9
200	11.154	35.420	27.075	102.5	.303	1498.3	200.9
225	10.295	35.321	27.152	95.4	.328	1495.6	226.9
250	9.810	35.268	27.194	91.8	.352	1494.1	251.9
275	9.141	35.191	27.245	87.1	.374	1492.0	276.9
300	8.439	35.140	27.317	80.4	.395	1489.7	301.9
325	8.089	35.123	27.357	76.9	.415	1488.8	326.9
350	7.425	35.093	27.432	69.8	.434	1486.6	352.9
375	6.793	35.063	27.497	63.6	.451	1484.5	377.9
400	6.532	35.064	27.534	60.3	.466	1483.9	402.9
425	6.228	35.058	27.569	57.1	.481	1483.1	427.9
450	5.884	35.046	27.604	53.8	.495	1482.1	452.9
475	5.646	35.042	27.631	51.4	.508	1481.5	478.9
500	5.553	35.049	27.648	50.0	.521	1481.6	503.9
600	5.048	35.035	27.698	45.9	.569	1481.1	604.9
700	4.707	35.022	27.727	43.9	.615	1481.4	705.9
800	4.434	35.010	27.748	42.5	.658	1481.9	806.9
900	4.254	34.998	27.758	42.2	.701	1482.8	907.9
1000	4.135	34.993	27.767	42.1	.744	1483.9	1008.9
1100	4.010	34.985	27.773	42.1	.786	1485.1	1109.9
1200	3.981	34.996	27.785	41.9	.829	1486.7	1211.9
1300	3.895	34.992	27.791	42.0	.871	1488.0	1312.9
1400	3.816	34.994	27.801	41.7	.914	1489.3	1413.9
1500	3.742	34.991	27.806	41.9	.956	1490.7	1515.9
1600	3.661	34.993	27.816	41.5	.999	1492.0	1616.9
1700	3.590	34.991	27.821	41.6	1.041	1493.4	1718.9
1800	3.523	34.986	27.824	41.8	1.083	1494.8	1819.9
1900	3.451	34.985	27.830	41.7	1.126	1496.2	1921.9
2000	3.364	34.986	27.839	41.3	1.168	1497.5	2023.9
2100	3.254	34.982	27.847	40.8	1.209	1498.8	2124.9
2200	3.101	34.981	27.861	39.5	1.250	1499.8	2226.9
2300	2.990	34.972	27.864	39.2	1.290	1501.0	2328.9
2301	2.990	34.972	27.864	39.3	1.291	1501.1	2329.9

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AM
18		35.425	4.86					
101		35.461	4.85					
490		35.023	4.96					
1002		34.978	6.07					
1499		34.971	6.13					
2294		35.018	5.74					

SIGMA-T

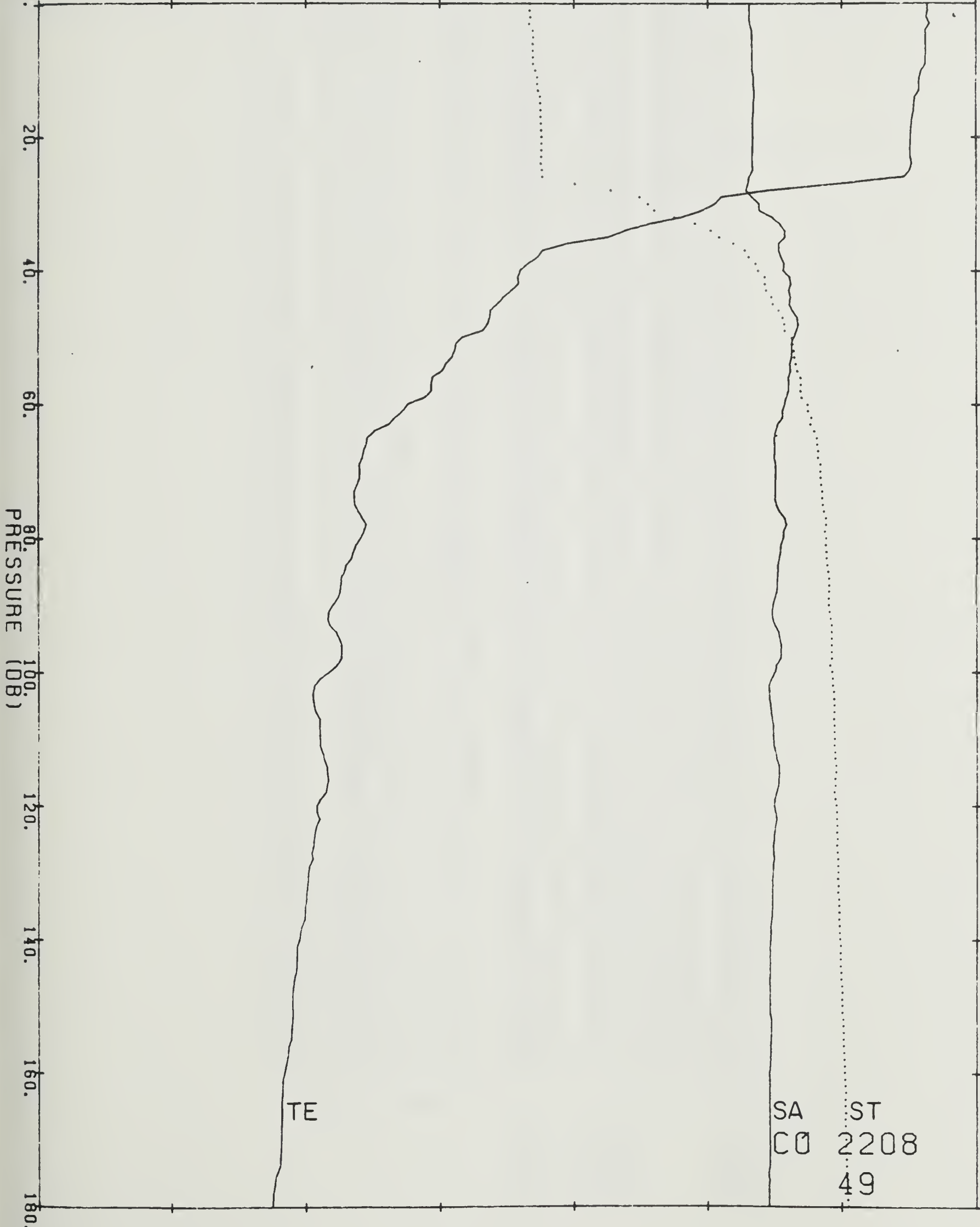
21. 22. 23. 24. 25. 26. 27. 28.

SALINITY (PPT)

30. 31. 32. 33. 34. 35. 36. 37.

TEMPERATURE (DEG C)

8. 10. 12. 14. 16. 18. 20. 22.



SHIP CO CRUISE 22-08 STATION 50 POSITION 36 37.61 N 74 11.62 W
 LOCAL TIME 1701 DATE 79/ 6/23 WIND = DIR = DEPTH=2218M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	21.586	34.777	24.165	374.3	.000	1526.1	.0
5	21.563	34.779	24.173	373.7	.019	1526.1	5.0
10	21.403	34.782	24.219	369.5	.037	1525.8	10.0
15	21.180	34.939	24.400	352.5	.055	1525.5	14.8
20	20.131	35.433	25.059	289.9	.071	1523.3	19.9
25	17.789	35.745	25.896	210.4	.084	1517.2	24.9
30	16.395	35.877	26.332	169.1	.093	1513.3	29.9
35	16.204	35.980	26.455	157.6	.101	1512.9	34.9
40	15.818	35.961	26.530	150.6	.109	1511.8	39.9
45	15.355	35.890	26.580	146.0	.116	1510.3	44.9
50	14.883	35.810	26.623	142.0	.124	1508.8	49.9
55	14.762	35.820	26.658	138.9	.131	1508.5	54.9
60	14.663	35.803	26.666	138.2	.137	1508.3	59.9
65	14.490	35.804	26.704	134.7	.144	1507.8	64.9
70	14.356	35.817	26.743	131.2	.151	1507.5	69.9
75	14.250	35.811	26.762	129.6	.157	1507.2	74.9
80	14.009	35.752	26.767	129.2	.165	1506.5	80.9
85	13.916	35.749	26.785	127.6	.172	1506.2	85.9
90	13.586	35.710	26.824	124.0	.178	1505.2	90.9
95	13.447	35.673	26.824	124.2	.184	1504.8	95.9
100	13.174	35.623	26.841	122.6	.190	1503.9	100.9
105	12.965	35.597	26.863	120.6	.196	1503.2	105.9
110	12.928	35.585	26.861	120.9	.202	1503.2	110.9
115	12.768	35.574	26.885	118.8	.208	1502.7	115.9
120	12.520	35.531	26.901	117.3	.214	1501.9	120.9
125	12.371	35.514	26.917	115.9	.220	1501.4	125.9
130	12.465	35.549	26.926	115.2	.226	1501.9	130.8
135	12.471	35.556	26.930	115.0	.232	1502.0	135.8
140	12.338	35.534	26.939	114.2	.237	1501.6	140.8
145	12.239	35.518	26.946	113.7	.243	1501.3	145.9
150	12.174	35.512	26.954	113.0	.249	1501.2	150.9
155	12.043	35.489	26.961	112.4	.254	1500.8	155.9
160	11.993	35.480	26.964	112.3	.260	1500.7	160.9
165	11.904	35.466	26.970	111.8	.266	1500.4	165.9
170	11.830	35.462	26.981	110.8	.271	1500.2	170.9
175	11.782	35.466	26.993	109.8	.277	1500.2	175.9
180	11.762	35.470	27.000	109.3	.282	1500.2	180.9
185	11.727	35.472	27.009	108.6	.288	1500.1	185.9
190	11.730	35.482	27.016	108.0	.293	1500.3	190.9
195	11.771	35.495	27.018	108.0	.298	1500.5	195.9
200	11.690	35.475	27.018	108.1	.304	1500.3	200.9
225	11.086	35.427	27.093	101.4	.331	1498.5	226.9
250	10.240	35.318	27.159	95.3	.356	1495.8	251.9
275	9.623	35.251	27.212	90.5	.379	1493.8	276.9
300	8.957	35.184	27.270	85.2	.401	1491.7	301.9
325	8.518	35.145	27.309	81.8	.422	1490.4	326.9
350	8.099	35.118	27.352	77.9	.442	1489.2	352.9
375	7.607	35.097	27.409	72.6	.461	1487.7	377.9
400	7.212	35.085	27.456	68.2	.479	1486.6	402.9
425	6.680	35.073	27.521	62.0	.495	1484.9	427.9
450	6.288	35.058	27.561	58.2	.510	1483.7	452.9
475	6.010	35.053	27.594	55.3	.525	1483.0	478.9
500	5.759	35.051	27.624	52.5	.538	1482.4	503.9
600	5.126	35.034	27.688	47.0	.589	1481.5	604.9
700	4.750	35.024	27.723	44.2	.635	1481.6	705.8
800	4.491	35.019	27.749	42.5	.679	1482.1	806.8
900	4.312	35.011	27.762	42.0	.721	1483.0	907.9
1000	4.147	34.997	27.768	42.0	.764	1484.0	1008.9
1100	3.958	34.984	27.778	41.5	.806	1484.9	1109.9
1200	3.880	34.982	27.785	41.7	.848	1486.2	1211.9
1300	3.813	34.983	27.792	41.6	.890	1487.6	1312.9
1400	3.751	34.984	27.799	41.6	.932	1489.0	1413.9
1500	3.699	34.987	27.807	41.6	.975	1490.5	1515.9
1600	3.624	34.990	27.817	41.3	1.017	1491.9	1616.9
1700	3.543	34.988	27.823	41.2	1.059	1493.2	1718.9
1800	3.485	34.988	27.829	41.2	1.100	1494.7	1819.9
1900	3.386	34.985	27.837	40.9	1.142	1495.9	1921.9
2000	3.251	34.984	27.849	39.9	1.183	1497.1	2023.9
2100	3.165	34.981	27.855	39.6	1.223	1498.4	2124.9
2162	3.105	34.979	27.859	39.4	1.248	1499.2	2187.9

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AM
5		34.816	5.36					
115		35.482	4.70					
264		35.247	3.36					
610		35.009	5.31					
1002		34.980	6.02					
2218		34.997	5.90					

SIGMA-T

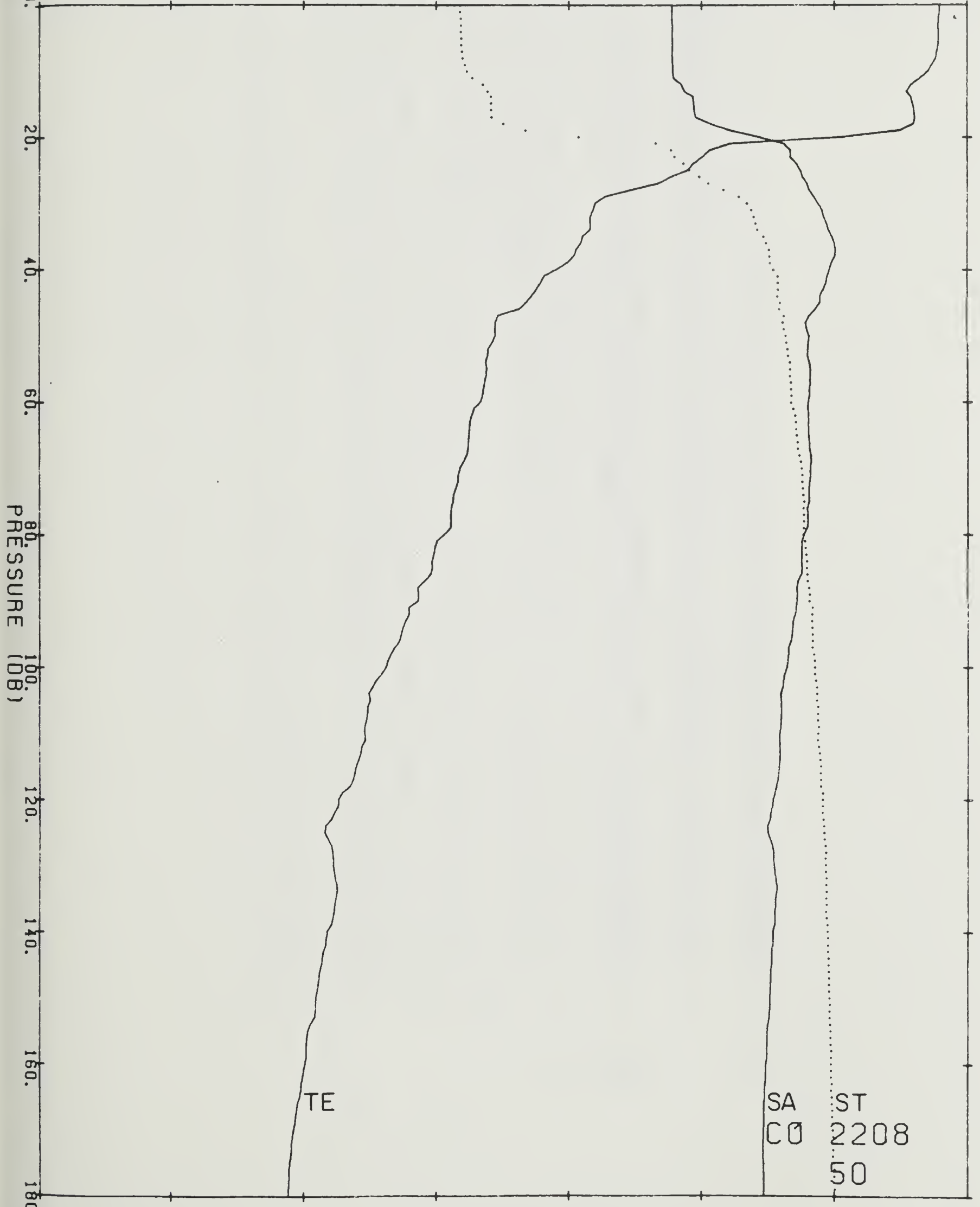
21. 22. 23. 24. 25. 26. 27. 28.

SALINITY (PPT)

30. 31. 32. 33. 34. 35. 36. 37.

TEMPERATURE (DEG C)

10. 12. 14. 16. 18. 20. 22.



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50

SHIP CO CRUISE 22-08 STATION 51 POSITION 36 25.80 N 74 37.80 W
 LOCAL TIME 49 DATE 79/ 6/23 WIND = DIR = DEPTH=1124M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	-9.000	13.544	9.922	1751.3	0.000	1373.4	0.0
9	-9.000	13.541	9.920	1750.9	.166	1373.6	9.5
16	-9.000	13.538	9.918	1750.6	.271	1373.7	15.5
22	-9.000	13.536	9.916	1750.4	.376	1373.7	21.5
28	-9.000	13.534	9.914	1750.1	.481	1373.8	27.5
34	-9.000	13.532	9.912	1749.9	.586	1373.9	33.5
40	-9.000	13.530	9.910	1749.6	.691	1374.0	39.5
46	-9.000	13.528	9.908	1749.4	.796	1374.1	45.5
52	-9.000	13.525	9.907	1749.1	.901	1374.2	51.5
58	-9.000	13.523	9.905	1748.9	1.006	1374.3	57.5
64	-9.000	13.521	9.903	1748.6	1.111	1374.4	63.5
70	-9.000	13.519	9.901	1748.4	1.216	1374.5	69.5
76	-9.000	13.517	9.899	1748.1	1.321	1374.6	75.5
82	-9.000	13.514	9.897	1747.9	1.426	1374.7	81.5
88	-9.000	13.512	9.896	1747.6	1.531	1374.8	87.5
94	-9.608	25.726	20.638	710.2	1.605	1435.2	93.5
100	11.980	35.403	26.907	116.1	1.629	1499.5	99.5
106	11.977	35.403	26.907	116.2	1.636	1499.6	105.5
112	11.937	35.398	26.911	116.0	1.643	1499.6	111.5
118	11.890	35.395	26.918	115.5	1.650	1499.5	117.5
124	11.916	35.407	26.922	115.3	1.657	1499.7	123.5
130	12.013	35.445	26.933	114.4	1.664	1500.2	129.5
136	12.109	35.482	26.943	113.6	1.671	1500.7	135.5
142	12.206	35.515	26.950	113.2	1.678	1501.1	141.5
148	12.283	35.539	26.954	113.0	1.684	1501.5	147.5
154	12.300	35.547	26.956	112.9	1.691	1501.7	153.5
160	12.280	35.543	26.957	113.0	1.698	1501.7	159.5
166	12.247	35.538	26.960	112.9	1.705	1501.7	165.5
172	12.208	35.533	26.964	112.6	1.712	1501.6	171.5
178	12.163	35.527	26.968	112.4	1.718	1501.6	177.5
184	12.086	35.517	26.974	111.9	1.725	1501.4	183.5
190	11.977	35.498	26.981	111.4	1.732	1501.1	189.5
196	11.794	35.465	26.991	110.6	1.738	1500.5	195.5
202	11.712	35.461	27.003	109.5	1.745	1500.3	201.5
208	11.632	35.461	27.018	108.2	1.752	1500.2	207.5
214	11.476	35.443	27.034	106.8	1.758	1499.7	213.5
220	11.339	35.431	27.050	105.4	1.764	1499.3	219.5
226	11.196	35.419	27.067	103.9	1.771	1498.9	225.5
231	11.090	35.402	27.073	103.4	1.777	1498.6	231.5
237	10.922	35.374	27.082	102.6	1.783	1498.0	237.5
243	10.742	35.370	27.111	99.9	1.789	1497.5	243.5
249	10.627	35.367	27.129	98.3	1.795	1497.2	249.5
255	10.422	35.344	27.147	96.6	1.801	1496.5	255.5
275	9.850	35.282	27.198	91.9	1.820	1494.7	275.4
300	9.107	35.209	27.265	85.7	1.842	1492.3	300.6
325	8.592	35.169	27.316	81.1	1.863	1490.7	325.8
350	7.918	35.120	27.381	75.0	1.883	1488.5	351.0
375	7.124	35.079	27.464	67.0	1.901	1485.8	376.2
400	6.708	35.060	27.507	63.0	1.917	1484.5	401.4
425	6.296	35.046	27.551	58.8	1.932	1483.3	426.6
450	6.013	35.039	27.582	55.9	1.947	1482.6	451.9
475	5.760	35.031	27.608	53.6	1.961	1481.9	477.1
500	5.542	35.023	27.629	51.8	1.974	1481.5	502.3
600	5.007	35.016	27.687	46.8	2.024	1480.9	603.3
700	4.682	35.011	27.721	44.3	2.070	1481.2	704.3
800	4.435	35.004	27.743	42.9	2.114	1481.9	805.4
900	4.274	35.000	27.757	42.3	2.157	1482.9	906.5
1000	4.207	35.001	27.765	42.4	2.200	1484.2	1007.7
1100	4.066	34.995	27.775	42.1	2.242	1485.3	1108.9
1124	4.044	34.993	27.776	42.1	2.253	1485.6	1133.0

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AM
0		33.415						
23			6.65					
115		35.358						
1119		34.984	5.83					

SIGMA-T

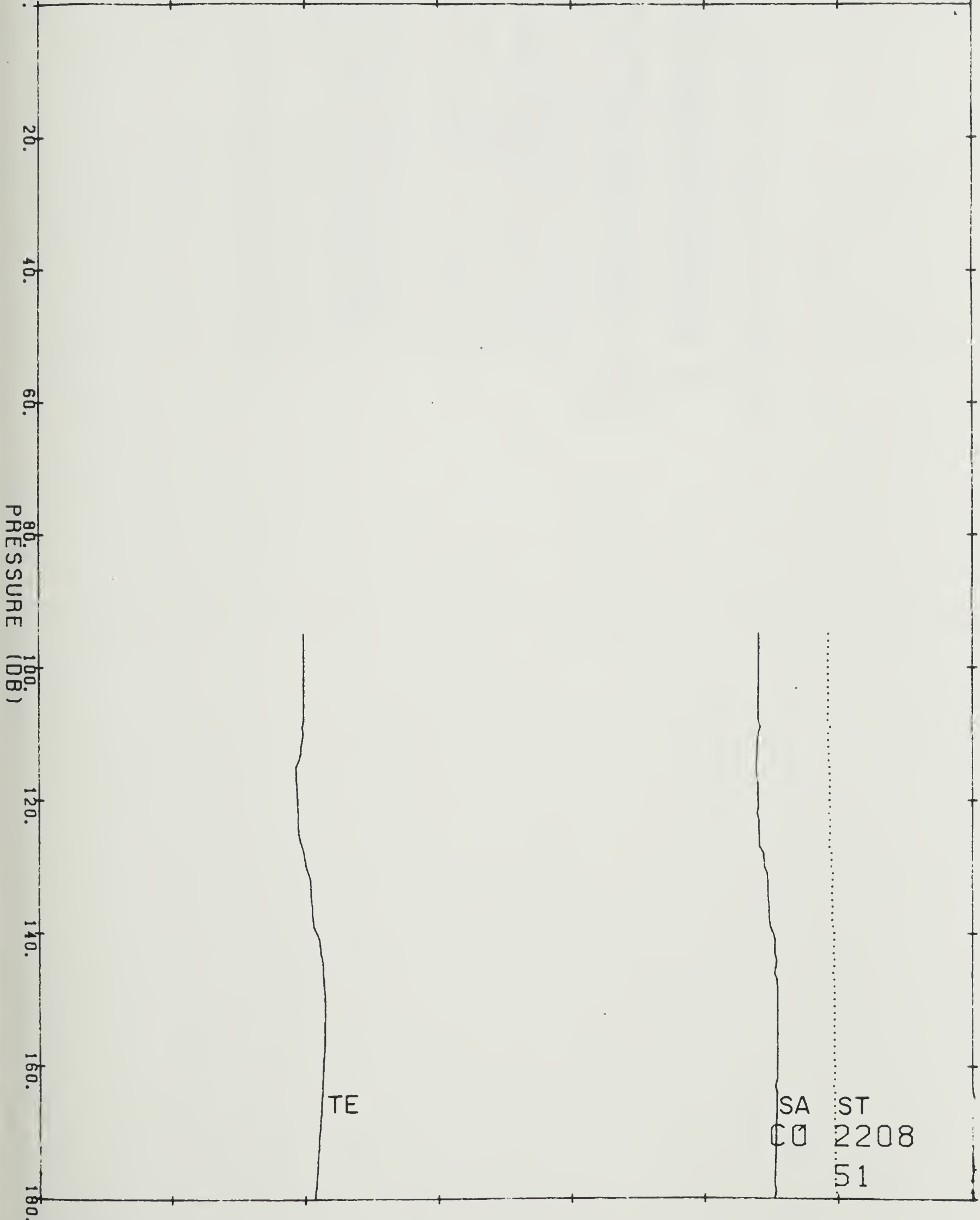
21. 22. 23. 24. 25. 26. 27. 28.

SALINITY (PPT)

30. 31. 32. 33. 34. 35. 36. 37.

TEMPERATURE (DEG C)

8. 10. 12. 14. 16. 18. 20. 22.



SHIP CO CRUISE 22-08 STATION 52 POSITION 36 20.00 N 74 51.50 W
 LOCAL TIME 552 DATE 79/ 6/24 WIND = DIR = DEPTH= 90M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	18.987	34.519	24.658	327.3	.000	1518.7	.0
5	18.987	34.518	24.657	327.6	.016	1518.8	5.0
10	18.987	34.516	24.656	327.9	.033	1518.9	10.0
15	17.126	34.322	24.965	298.6	.048	1513.3	14.9
20	9.073	33.300	25.776	221.3	.061	1485.1	19.9
25	7.058	33.269	26.048	195.5	.072	1477.4	24.9
30	6.361	33.235	26.113	189.3	.081	1474.7	29.9
35	5.659	33.167	26.146	186.2	.091	1471.8	34.9
40	5.708	33.211	26.175	183.5	.100	1472.2	39.9
45	5.993	33.280	26.195	181.7	.109	1473.5	44.9
50	6.690	33.457	26.245	177.1	.118	1476.6	49.9
55	8.147	33.857	26.355	166.9	.127	1482.9	54.9
60	8.896	34.075	26.411	161.8	.135	1486.1	59.9
65	9.276	34.175	26.428	160.3	.143	1487.7	64.9
70	9.362	34.206	26.438	159.4	.151	1488.2	69.9
75	9.380	34.216	26.443	159.1	.159	1488.3	74.9
80	9.350	34.204	26.439	159.6	.168	1488.3	80.9
85	9.363	34.205	26.438	159.8	.176	1488.4	85.9
90	9.388	34.207	26.435	160.1	.184	1488.6	90.9
90	9.388	34.207	26.435	160.1	.184	1488.6	90.9

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AM
12	20.530	34.624						
38		33.216						
89		34.145						

SIGMA-T

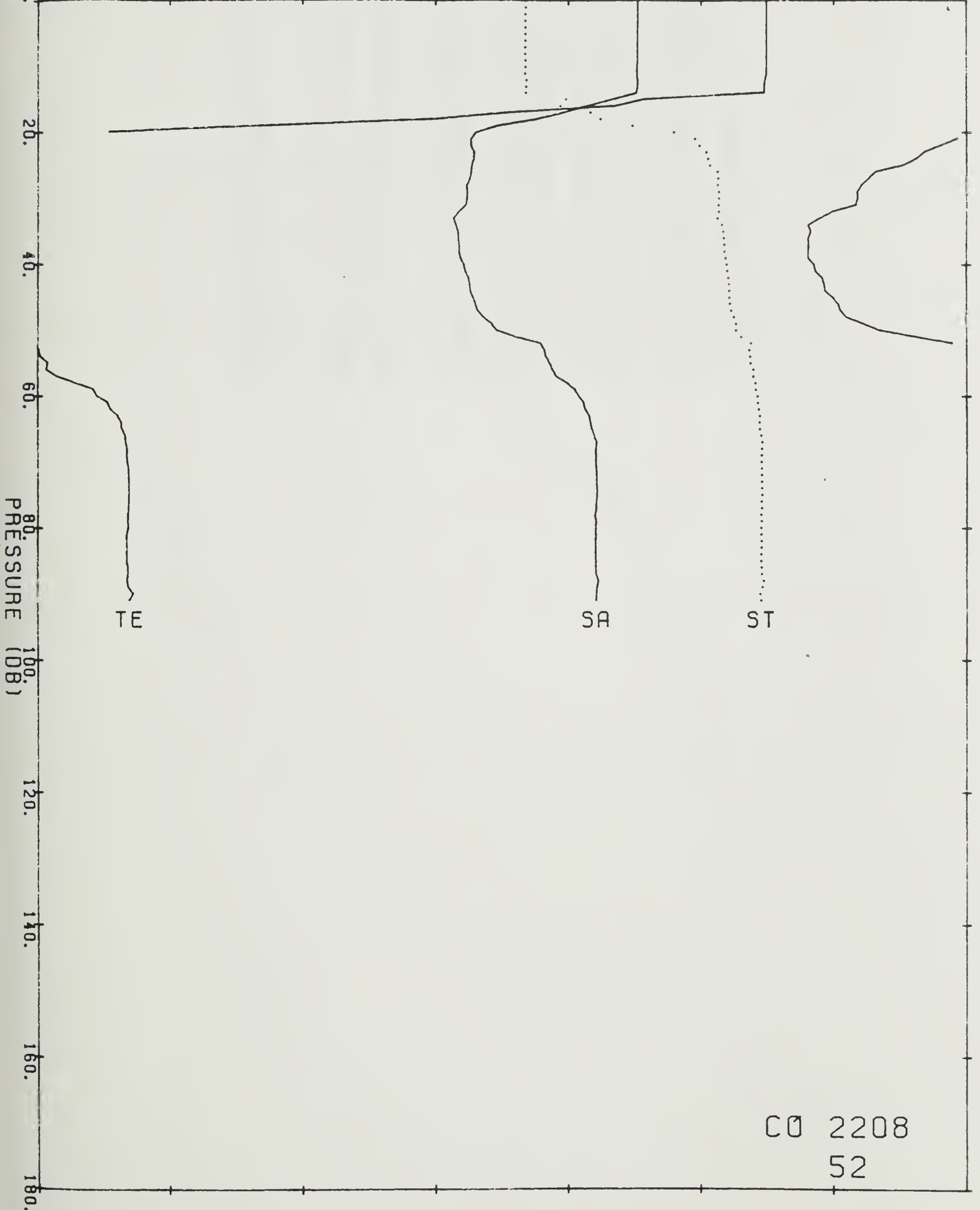
21. 22. 23. 24. 25. 26. 27. 28.

SALINITY (PPT)

30. 31. 32. 33. 34. 35. 36. 37.

TEMPERATURE (DEG C)

8. 10. 12. 14. 16. 18. 20. 22.



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52

SHIP CO CRUISE 22-08 STATION 53 POSITION 36 20.00 N 74 50.50 W
LOCAL TIME 946 DATE 79/ 6/24 WIND = DIR = DEPTH= 113M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	20.680	32.550	22.717	512.6	.000	1521.1	.0
5	20.687	32.664	22.801	504.6	.026	1521.4	5.0
10	20.504	34.201	24.020	388.4	.048	1522.7	10.0
15	20.562	34.607	24.314	360.6	.066	1523.4	14.9
20	14.070	33.760	25.215	274.8	.082	1503.2	19.9
25	10.504	33.525	25.715	227.3	.095	1490.7	24.9
30	6.498	33.195	26.064	194.0	.105	1475.2	29.9
35	6.201	33.195	26.102	190.5	.115	1474.1	34.9
40	5.823	33.198	26.151	185.8	.124	1472.6	39.9
45	5.778	33.199	26.157	185.3	.133	1472.5	44.9
50	5.772	33.229	26.181	183.0	.143	1472.6	49.9
55	5.973	33.283	26.200	181.4	.152	1473.6	54.9
60	6.446	33.413	26.242	177.4	.161	1475.7	59.9
65	7.335	33.648	26.308	171.4	.169	1479.6	64.9
70	8.546	34.025	26.426	160.5	.178	1484.9	69.9
75	9.592	34.294	26.469	156.6	.186	1489.2	74.9
80	10.053	34.435	26.502	153.7	.193	1491.2	79.9
85	10.203	34.499	26.526	151.5	.203	1491.9	85.9
90	10.233	34.542	26.555	149.0	.210	1492.1	90.9
95	10.692	34.716	26.610	143.9	.217	1494.1	95.9
100	11.337	34.940	26.668	138.7	.225	1496.7	100.9
105	11.579	35.008	26.676	138.1	.231	1497.7	105.9
110	11.573	35.008	26.677	138.1	.238	1497.8	110.9
113	11.574	35.015	26.682	137.7	.242	1497.9	113.9

SIGMA-T

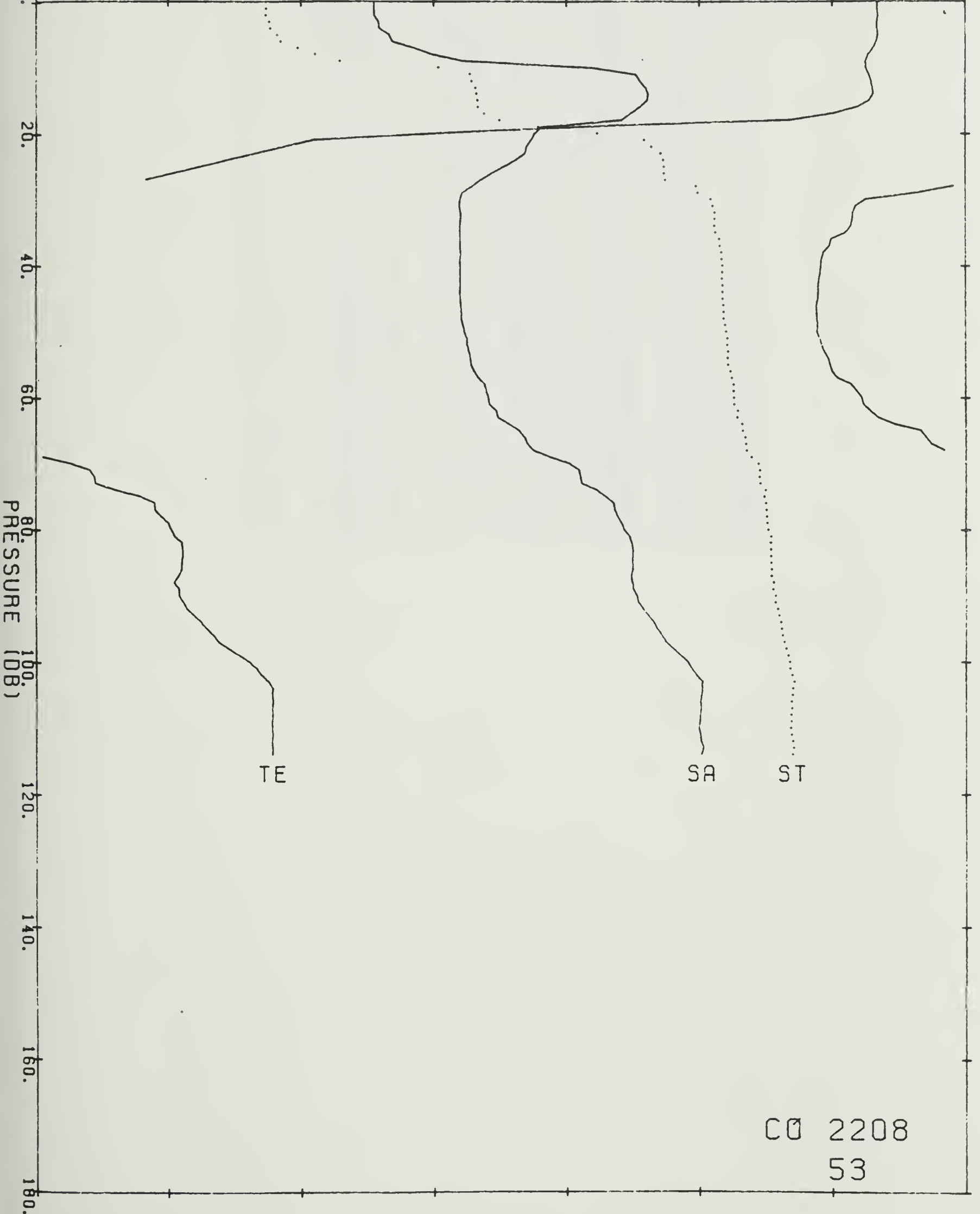
21. 22. 23. 24. 25. 26. 27. 28.

SALINITY (PPT)

30. 31. 32. 33. 34. 35. 36. 37.

TEMPERATURE (DEG C)

10. 12. 14. 16. 18. 20. 22.



SHIP CD CRUISE 22-08 STATION 54 POSITION 36 19.90 N 74 49.20 W
 LOCAL TIME 1018 DATE 79/ 6/24 WIND = DIR = DEPTH= 163M

DTH	TEM	SAL	SGT	AND	DYN	SVL	PRS
0	20.717	32.189	22.432	539.8	.000	1520.8	.0
5	20.706	32.203	22.446	538.7	.027	1520.9	5.0
10	20.586	34.566	24.276	364.0	.050	1523.4	10.0
15	19.771	34.610	24.525	340.5	.067	1521.3	14.9
20	13.830	33.980	25.435	253.9	.082	1502.7	19.9
25	12.420	33.565	25.395	257.8	.095	1497.5	24.9
30	6.136	33.159	26.081	192.3	.106	1473.7	29.9
35	5.808	33.186	26.143	186.5	.115	1472.5	34.9
40	5.789	33.192	26.150	185.9	.125	1472.5	39.9
45	5.934	33.262	26.188	182.4	.134	1473.2	44.9
50	6.154	33.329	26.213	180.0	.143	1474.3	49.9
55	6.609	33.470	26.266	175.1	.152	1476.4	54.9
60	7.338	33.675	26.329	169.4	.160	1479.6	59.9
65	7.910	33.839	26.376	165.1	.169	1482.1	64.9
70	9.061	34.184	26.470	156.4	.177	1487.0	69.9
75	10.097	34.463	26.516	152.2	.184	1491.3	74.9
80	10.380	34.554	26.539	150.3	.192	1492.5	79.9
85	10.245	34.548	26.557	148.6	.201	1492.1	85.9
90	10.249	34.555	26.562	148.3	.208	1492.2	90.9
95	10.336	34.591	26.575	147.1	.216	1492.6	95.9
100	11.191	34.865	26.636	141.6	.223	1496.1	100.9
105	11.457	34.982	26.678	137.8	.230	1497.3	105.9
110	11.899	35.134	26.713	134.7	.237	1499.1	110.9
115	11.984	35.175	26.729	133.4	.244	1499.5	115.9
120	11.944	35.174	26.736	132.9	.250	1499.5	120.9
125	11.989	35.189	26.739	132.7	.257	1499.7	125.9
130	12.025	35.208	26.746	132.1	.263	1499.9	130.9
135	12.036	35.214	26.749	132.0	.270	1500.1	135.9
140	12.079	35.279	26.791	128.1	.277	1500.4	140.9
145	11.973	35.299	26.827	124.8	.283	1500.1	145.9
150	11.847	35.307	26.857	122.0	.289	1499.8	150.9
155	11.828	35.330	26.879	120.1	.295	1499.8	155.9
160	11.852	35.373	26.908	117.5	.301	1500.0	160.9
163	11.848	35.378	26.912	117.2	.305	1500.1	163.9

SIGMA-T

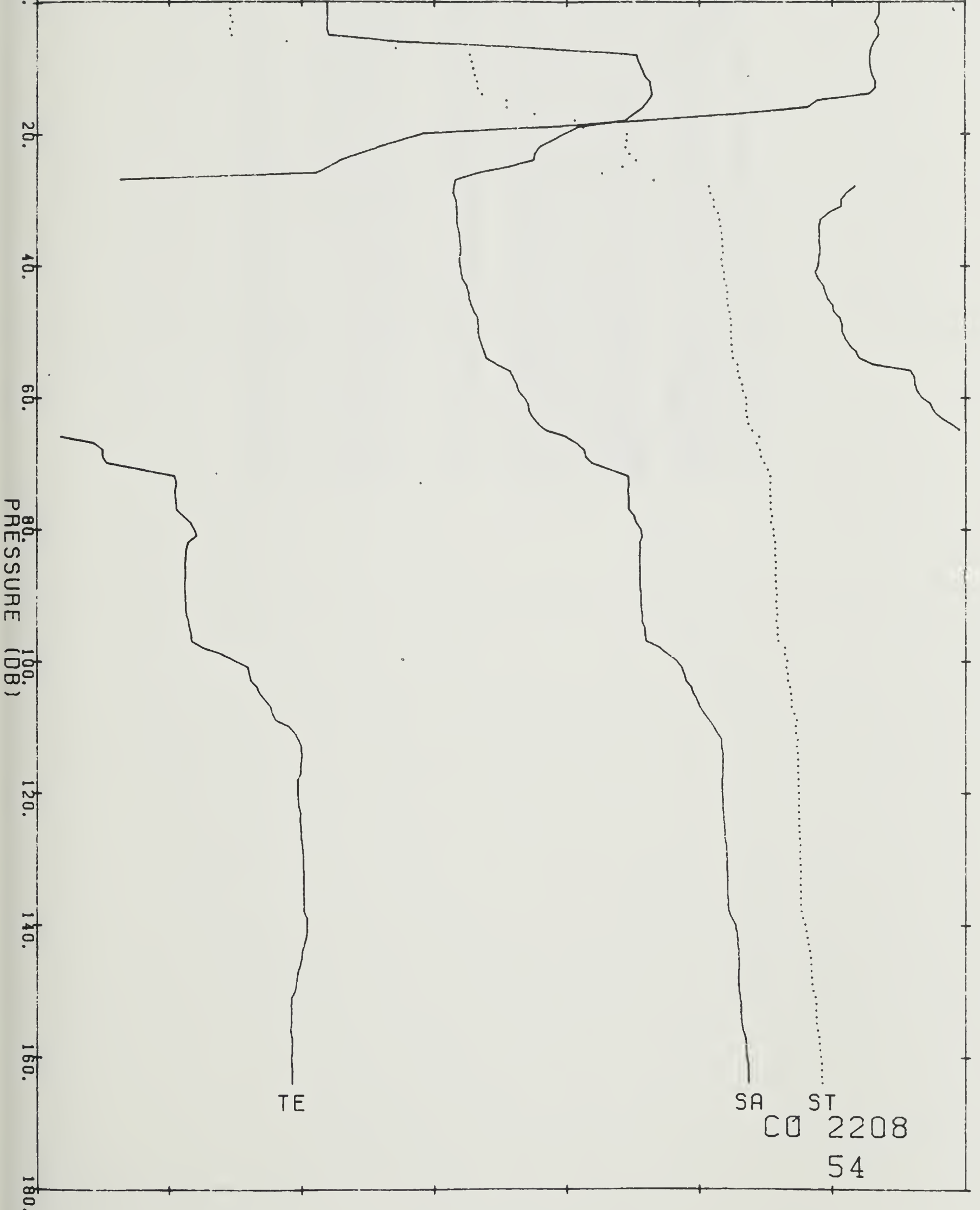
21. 22. 23. 24. 25. 26. 27. 28.

SALINITY (PPT)

30. 31. 32. 33. 34. 35. 36. 37.

TEMPERATURE (DEG C)

8. 10. 12. 14. 16. 18. 20. 22.



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SHIP CO CRUISE 22-08 STATION 55 POSITION 36 19.90 N 74 49.20 W
LOCAL TIME 1047 DATE 79/ 6/24 WIND = DIR = DEPTH= 145M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	20.697	32.312	22.531	530.3	.000	1520.9	.0
5	20.604	32.464	22.671	517.1	.026	1520.9	5.0
10	20.598	34.556	24.266	365.1	.048	1523.4	10.0
15	19.088	34.306	24.470	345.8	.066	1519.0	14.9
20	13.360	33.701	25.315	265.3	.081	1500.8	19.9
25	12.100	33.860	25.685	230.2	.093	1496.8	24.9
30	6.777	33.197	26.029	197.4	.104	1476.3	29.9
35	6.007	33.178	26.112	189.4	.114	1473.3	34.9
40	5.827	33.191	26.145	186.4	.123	1472.6	39.9
45	5.930	33.246	26.176	183.5	.132	1473.2	44.9
50	7.830	33.663	26.249	176.8	.141	1481.3	49.9
55	8.736	33.843	26.254	176.5	.150	1485.1	54.9
60	9.452	33.955	26.227	179.2	.159	1488.0	59.9
65	8.600	34.030	26.422	160.8	.168	1485.0	64.9
70	9.494	34.279	26.474	156.1	.176	1488.7	69.9
75	10.266	34.537	26.545	149.5	.183	1492.0	74.9
80	10.488	34.599	26.555	148.7	.191	1492.9	79.9
85	10.326	34.575	26.564	148.0	.200	1492.4	85.9
90	10.370	34.585	26.565	148.0	.207	1492.7	90.9
95	11.151	34.817	26.606	144.4	.214	1495.8	95.9
100	11.637	35.042	26.691	136.5	.221	1497.9	100.9
105	12.274	35.251	26.732	132.9	.228	1500.4	105.9
110	12.241	35.264	26.748	131.5	.235	1500.4	110.9
115	12.092	35.242	26.760	130.5	.241	1500.0	115.9
120	12.059	35.250	26.773	129.4	.248	1500.0	120.9
125	12.086	35.283	26.793	127.6	.254	1500.2	125.9
130	12.169	35.336	26.818	125.3	.260	1500.6	130.9
135	12.105	35.330	26.826	124.7	.267	1500.5	135.9
140	12.013	35.324	26.839	123.6	.273	1500.2	140.9
145	12.010	35.347	26.857	122.0	.279	1500.3	145.9
145	12.010	35.347	26.857	122.0	.279	1500.3	145.9

SIGMA-T

21. 22. 23. 24. 25. 26. 27. 28.

SALINITY (PPT)

30. 31. 32. 33. 34. 35. 36. 37.

TEMPERATURE (DEG C)

10. 12. 14. 16. 18. 20. 22.



SHIP CO CRUISE 22-08 STATION 56 POSITION 36 18.89 N 74 44.96 W
 LOCAL TIME 1154 DATE 79/ 6/24 WIND = DIR = DEPTH= 400M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	20.885	32.513	22.634	520.5	0.000	1521.6	0.0
9	20.647	33.167	23.195	467.2	.047	1521.9	9.5
15	20.208	33.816	23.806	409.1	.073	1521.6	15.5
21	16.980	34.007	24.758	318.5	.095	1512.6	21.5
27	13.410	34.119	25.629	235.7	.112	1501.6	27.5
33	9.171	34.130	26.410	161.4	.124	1486.8	33.5
39	6.102	33.286	26.186	182.5	.134	1473.9	39.5
45	6.367	33.339	26.194	181.8	.145	1475.1	45.5
51	7.408	33.521	26.198	181.7	.156	1479.5	51.5
57	8.710	33.745	26.181	183.5	.167	1484.9	57.5
63	9.622	34.185	26.380	164.9	.177	1489.0	63.5
69	9.953	34.421	26.508	152.9	.187	1490.6	69.5
75	10.275	34.556	26.558	148.3	.196	1492.0	75.5
81	10.500	34.621	26.570	147.4	.205	1493.0	81.5
87	10.578	34.646	26.575	147.0	.213	1493.4	87.5
93	11.084	34.802	26.607	144.3	.222	1495.5	93.5
99	12.115	35.122	26.662	139.3	.231	1499.6	99.5
105	12.417	35.274	26.721	133.9	.239	1501.0	105.5
111	12.489	35.320	26.743	132.0	.247	1501.4	111.5
117	12.519	35.373	26.778	128.9	.255	1501.6	117.5
123	12.460	35.418	26.825	124.6	.262	1501.6	123.5
129	12.423	35.448	26.856	121.8	.270	1501.6	129.5
135	12.291	35.433	26.870	120.6	.277	1501.2	135.5
141	12.110	35.406	26.884	119.4	.284	1500.7	141.5
147	12.025	35.410	26.903	117.7	.291	1500.5	147.5
153	12.078	35.447	26.922	116.1	.298	1500.8	153.5
159	12.099	35.462	26.930	115.5	.305	1501.0	159.5
165	12.089	35.468	26.936	115.1	.312	1501.1	165.5
170	12.073	35.477	26.946	114.3	.319	1501.1	171.5
176	12.047	35.480	26.954	113.7	.326	1501.1	177.5
182	12.011	35.478	26.959	113.3	.333	1501.1	183.5
188	11.918	35.471	26.971	112.3	.339	1500.9	189.5
194	11.763	35.458	26.991	110.5	.346	1500.4	195.5
200	11.687	35.451	26.999	109.8	.353	1500.2	201.5
206	11.584	35.443	27.013	108.6	.359	1500.0	207.5
212	11.488	35.446	27.033	106.8	.366	1499.7	213.5
218	11.429	35.447	27.045	105.9	.372	1499.6	219.5
224	11.304	35.430	27.055	105.0	.378	1499.3	225.5
230	11.080	35.405	27.077	103.0	.385	1498.5	231.5
236	10.853	35.449	27.153	95.9	.391	1497.9	237.5
242	10.660	35.437	27.178	93.6	.396	1497.3	243.5
248	10.455	35.345	27.143	96.9	.402	1496.5	249.5
254	10.206	35.317	27.164	94.9	.408	1495.7	255.5
275	9.303	35.225	27.246	87.2	.427	1492.6	276.8
300	8.449	35.154	27.327	79.5	.448	1489.8	302.0
325	7.985	35.123	27.373	75.3	.468	1488.4	327.2
350	7.668	35.105	27.406	72.4	.486	1487.5	352.4
375	7.287	35.086	27.447	68.7	.504	1486.4	377.6
400	7.068	35.079	27.472	66.6	.521	1486.0	402.8
400	7.065	35.079	27.472	66.6	.521	1486.0	403.0

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AM
0		32.536	5.66					
36		33.202	7.68					
185		35.441	4.96					
399		35.062	4.06					

SIGMA-T

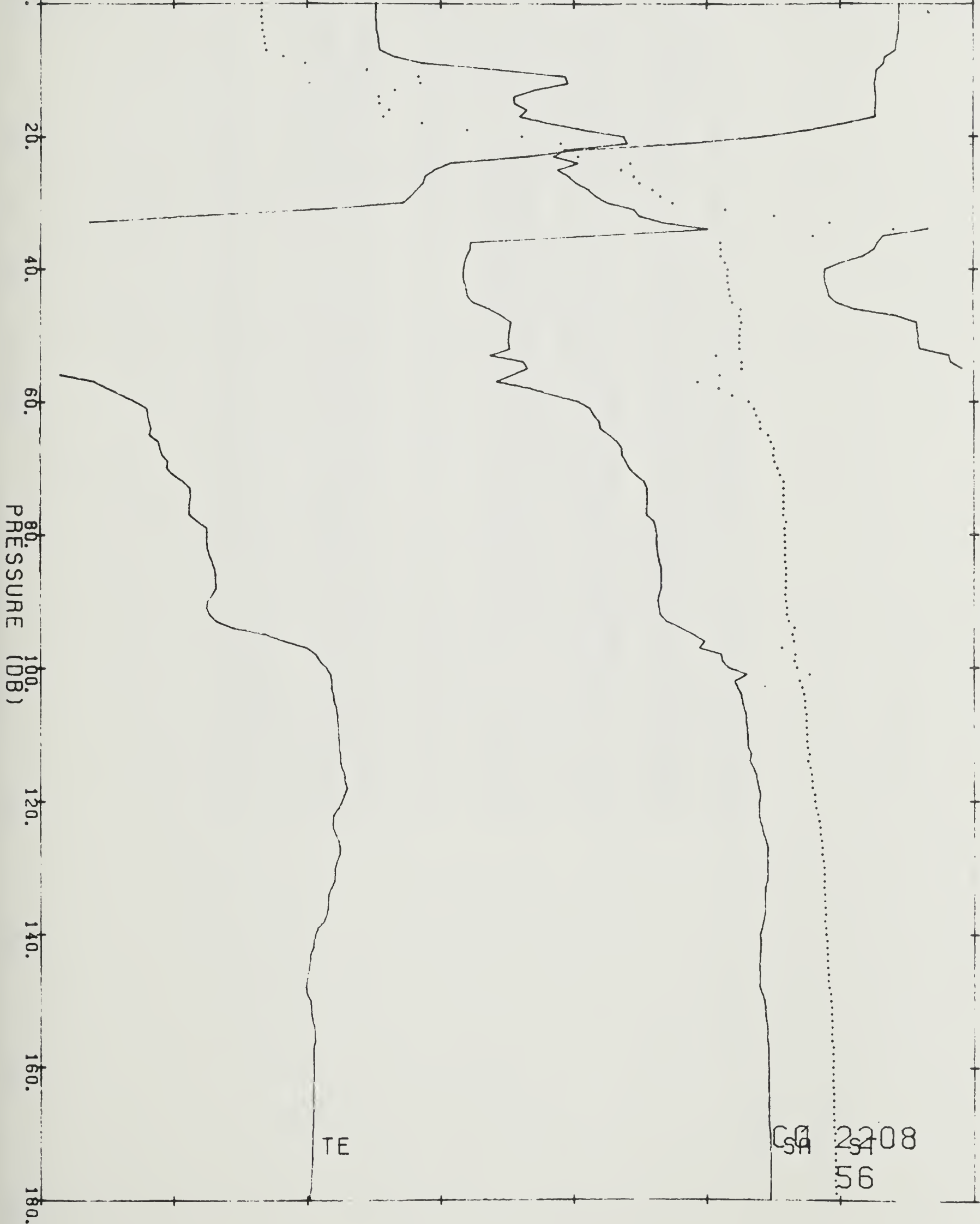
21. 22. 23. 24. 25. 26. 27. 28.

SALINITY (PPT)

30. 31. 32. 33. 34. 35. 36. 37.

TEMPERATURE (DEG C)

8. 10. 12. 14. 16. 18. 20. 22.



SHIP CO CRUISE 22-08 STATION 57 POSITION 36 19.77 N 74 44.47 W
 LOCAL TIME 1633 DATE 79/ 6/24 WIND = OIR = DEPTH= 412M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	20.982	33.316	23.219	464.6	.000	1522.8	.0
5	20.671	33.390	23.358	451.5	.023	1522.2	5.0
10	20.536	33.444	23.435	444.3	.045	1521.9	10.0
15	20.290	33.554	23.584	430.2	.067	1521.5	14.9
20	18.845	34.659	24.801	314.4	.085	1518.8	19.9
25	13.542	33.830	25.378	259.4	.100	1501.6	24.9
30	10.202	33.705	25.907	209.1	.111	1490.0	29.9
35	9.453	33.793	26.101	190.8	.121	1487.4	34.9
40	7.201	33.499	26.209	180.4	.131	1478.5	39.9
45	7.620	33.648	26.268	175.0	.140	1480.4	44.9
50	7.592	33.665	26.285	173.4	.148	1480.4	49.9
55	7.813	33.716	26.293	172.7	.157	1481.4	54.9
60	7.724	33.745	26.329	169.4	.166	1481.2	59.9
65	8.244	33.908	26.380	164.7	.174	1483.5	64.9
70	8.730	34.038	26.408	162.2	.182	1485.6	69.9
75	9.814	34.368	26.490	154.7	.190	1490.1	74.9
80	10.608	34.643	26.568	147.5	.198	1493.4	79.9
85	10.702	34.705	26.600	144.7	.206	1493.9	85.9
90	10.670	34.703	26.604	144.4	.214	1493.9	90.9
95	10.831	34.764	26.623	142.7	.221	1494.6	95.9
100	11.230	34.903	26.659	139.5	.228	1496.3	100.9
105	11.863	35.099	26.693	136.5	.235	1498.8	105.9
110	12.136	35.191	26.712	134.9	.241	1500.0	110.9
115	12.252	35.260	26.743	132.1	.248	1500.6	115.9
120	12.241	35.293	26.771	129.6	.255	1500.6	120.9
125	12.362	35.365	26.803	126.7	.261	1501.2	125.9
130	12.371	35.380	26.813	125.9	.267	1501.3	130.9
135	12.173	35.373	26.846	122.8	.274	1500.7	135.9
140	12.219	35.433	26.884	119.4	.280	1501.1	140.9
145	11.928	35.392	26.908	117.2	.286	1500.1	145.9
150	12.087	35.454	26.926	115.7	.291	1500.8	150.9
155	12.094	35.473	26.939	114.5	.297	1500.9	155.9
160	12.086	35.479	26.945	114.1	.303	1501.0	160.9
165	12.068	35.478	26.948	113.9	.309	1501.0	165.9
170	11.998	35.475	26.959	113.0	.314	1500.8	170.9
175	11.906	35.470	26.973	111.8	.320	1500.6	175.9
180	11.852	35.474	26.986	110.6	.325	1500.5	180.9
185	11.729	35.458	26.997	109.7	.331	1500.1	185.9
190	11.679	35.450	27.000	109.5	.336	1500.0	190.9
195	11.596	35.446	27.013	108.4	.342	1499.8	195.9
200	11.544	35.430	27.010	108.7	.347	1499.7	200.9
225	10.710	35.367	27.114	99.2	.374	1497.1	226.9
250	10.304	35.320	27.150	96.2	.399	1496.0	251.9
275	9.300	35.222	27.244	87.4	.422	1492.6	276.9
300	8.447	35.151	27.324	79.8	.443	1489.7	301.9
325	8.013	35.122	27.368	75.8	.462	1488.5	326.9
350	7.664	35.095	27.399	73.1	.481	1487.5	351.9
375	6.905	35.064	27.483	65.0	.499	1484.9	377.9
400	6.374	35.044	27.539	59.7	.514	1483.2	402.9
412	6.192	35.037	27.557	58.0	.521	1482.7	414.9

SIGMA-T

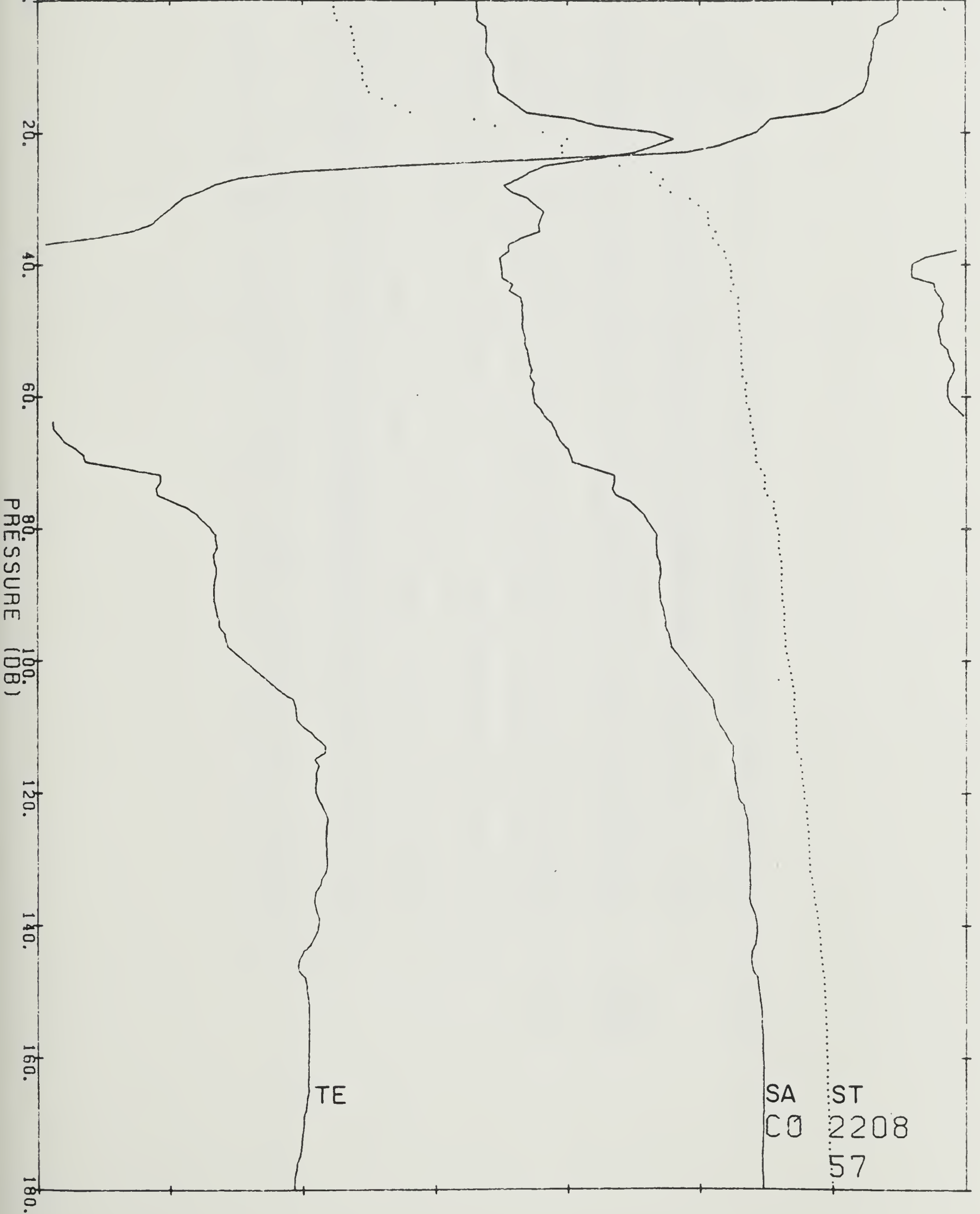
21. 22. 23. 24. 25. 26. 27. 28.

SALINITY (PPT)

30. 31. 32. 33. 34. 35. 36. 37.

TEMPERATURE (DEG C)

8. 10. 12. 14. 16. 18. 20. 22.



SHIP CO CRUISE 22-08 STATION 58 POSITION 36 19.13 N 74 43.34 W
 LOCAL TIME 1904 DATE 79/ 6/24 WIND = DIR = DEPTH= 782M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS	
0	21.179	33.337	23.182	468.2	.000	1523.4	.0	
5	21.110	33.353	23.212	465.4	.023	1523.3	5.0	
10	20.279	33.591	23.615	427.1	.046	1521.4	10.0	
15	18.300	34.113	24.520	341.0	.065	1516.5	14.9	
20	17.028	34.654	25.243	272.3	.080	1513.5	19.9	
25	14.861	34.386	25.530	245.1	.093	1506.6	24.9	
30	11.905	34.068	25.884	211.4	.104	1496.5	29.9	
35	8.458	33.612	26.116	189.3	.114	1483.4	34.9	
40	8.302	33.700	26.208	180.6	.124	1483.0	39.9	
45	9.391	34.014	26.284	173.6	.132	1487.6	44.9	
50	11.348	34.572	26.379	164.8	.141	1495.5	49.9	
55	12.365	34.880	26.426	160.6	.149	1499.5	54.9	
60	12.057	34.873	26.480	155.6	.157	1498.5	59.9	
65	12.007	34.882	26.497	154.1	.165	1498.4	64.9	
70	10.622	34.660	26.579	146.3	.172	1493.3	69.9	
75	10.692	34.688	26.588	145.5	.179	1493.7	74.9	
80	10.704	34.709	26.602	144.3	.188	1493.9	80.9	
85	12.366	35.184	26.662	139.1	.195	1500.4	85.9	
90	12.590	35.311	26.716	134.0	.202	1501.4	90.9	
95	12.654	35.356	26.739	132.1	.209	1501.7	95.9	
100	12.727	35.432	26.783	128.0	.215	1502.1	100.9	
105	12.804	35.486	26.810	125.7	.222	1502.5	105.9	
110	12.578	35.469	26.841	122.7	.228	1501.8	110.9	
115	12.176	35.419	26.881	119.0	.234	1500.5	115.9	
120	12.156	35.410	26.878	119.4	.240	1500.5	120.9	
125	11.964	35.407	26.913	116.2	.246	1499.9	125.9	
130	12.059	35.441	26.921	115.6	.251	1500.4	130.9	
135	12.075	35.451	26.926	115.3	.257	1500.5	135.9	
140	12.067	35.468	26.940	114.0	.263	1500.6	140.9	
145	12.020	35.465	26.947	113.5	.269	1500.5	145.9	
150	11.980	35.467	26.956	112.7	.274	1500.4	150.9	
155	11.957	35.469	26.962	112.3	.280	1500.5	155.9	
160	11.899	35.463	26.969	111.8	.285	1500.3	160.9	
165	11.850	35.456	26.973	111.5	.291	1500.2	165.9	
170	11.782	35.455	26.985	110.5	.297	1500.1	170.9	
175	11.714	35.453	26.996	109.5	.302	1499.9	175.9	
180	11.637	35.450	27.008	108.5	.308	1499.7	180.9	
185	11.568	35.435	27.010	108.4	.313	1499.5	185.9	
190	11.469	35.432	27.026	107.0	.318	1499.3	190.9	
195	11.373	35.422	27.036	106.1	.324	1499.0	195.9	
200	11.307	35.412	27.041	105.8	.329	1498.9	200.9	
225	10.572	35.350	27.126	98.0	.355	1496.6	226.9	
250	9.662	35.249	27.204	90.7	.379	1493.6	251.9	
275	9.520	35.240	27.221	89.6	.402	1493.4	276.9	
300	8.862	35.177	27.279	84.2	.423	1491.3	301.9	
325	8.440	35.144	27.320	80.6	.444	1490.1	326.9	
350	7.688	35.098	27.398	73.3	.464	1487.6	352.9	
375	7.207	35.075	27.449	68.5	.482	1486.1	377.9	
400	6.723	35.054	27.500	63.7	.498	1484.6	402.9	
425	6.176	35.034	27.557	58.2	.513	1482.8	427.9	
450	5.919	35.024	27.582	55.9	.528	1482.2	452.9	
475	5.731	35.020	27.603	54.1	.542	1481.8	478.9	
500	5.507	35.012	27.624	52.2	.555	1481.3	503.9	
600	4.864	35.002	27.693	46.1	.605	1480.3	604.9	
700	4.585	35.005	27.727	43.6	.650	1480.9	705.9	
782	4.426	34.993	27.735	43.5	.686	1481.5	788.8	
DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AM
82		35.265	4.79					
138		35.436	4.92					
360		35.072	3.44					
780		34.997	5.62					

SIGMA-T

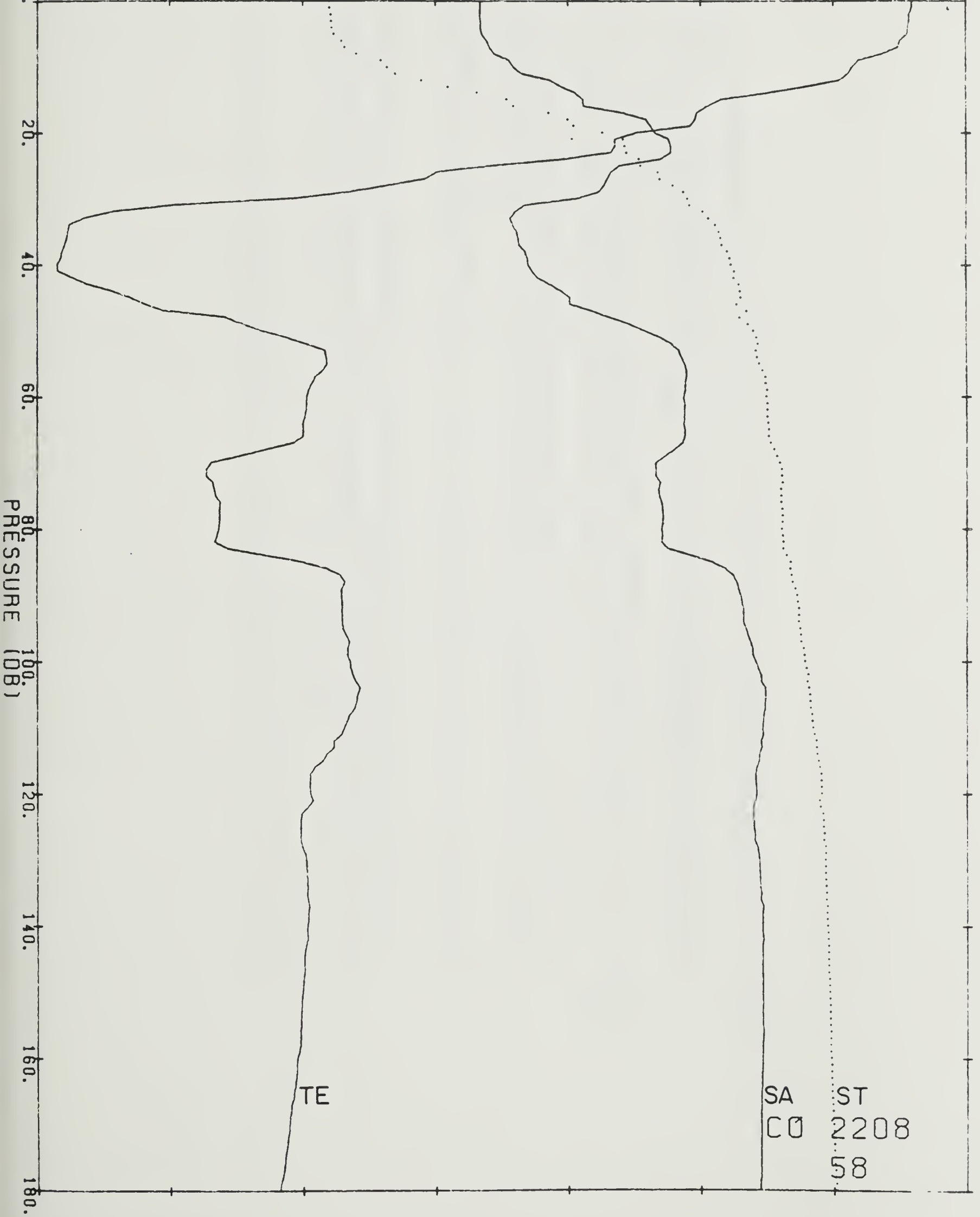
21. 22. 23. 24. 25. 26. 27. 28.

SALINITY (PPT)

30. 31. 32. 33. 34. 35. 36. 37.

TEMPERATURE (DEG C)

8. 10. 12. 14. 16. 18. 20. 22.



SHIP CO CRUISE 22-08 STATION 59 POSITION 36 19.66 N 74 41.12 W
 LOCAL TIME 146 DATE 79/ 6/25 WIND = DIR = DEPTH= 919M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	20.776	33.409	23.345	452.6	.000	1522.4	.0
5	20.706	33.463	23.405	447.0	.023	1522.3	5.0
10	20.593	33.651	23.578	430.7	.045	1522.3	10.0
15	20.392	34.668	24.406	351.9	.064	1523.0	14.9
20	18.917	34.579	24.722	321.9	.081	1518.9	19.9
25	16.915	34.592	25.222	274.4	.095	1513.2	24.9
30	14.738	34.700	25.798	219.7	.108	1506.7	29.9
35	13.722	34.624	25.955	204.9	.118	1503.4	34.9
40	11.042	34.326	26.244	177.4	.128	1493.9	39.9
45	9.980	34.184	26.319	170.4	.137	1490.0	44.9
50	9.194	34.079	26.366	165.8	.145	1487.0	49.9
55	9.983	34.349	26.447	158.4	.153	1490.4	54.9
60	12.340	35.071	26.579	146.2	.161	1499.7	59.9
65	12.461	35.153	26.619	142.6	.168	1500.3	64.9
70	12.626	35.262	26.671	137.8	.175	1501.1	69.9
75	12.819	35.320	26.678	137.3	.182	1501.9	74.9
80	12.897	35.387	26.714	134.0	.189	1502.3	79.9
85	13.124	35.510	26.764	129.5	.197	1503.3	85.9
90	12.912	35.510	26.807	125.6	.203	1502.7	90.9
95	12.837	35.500	26.814	125.0	.209	1502.5	95.9
100	12.560	35.470	26.846	122.1	.215	1501.6	100.9
105	11.943	35.354	26.876	119.2	.221	1499.4	105.9
110	11.928	35.360	26.883	118.6	.227	1499.5	110.9
115	11.861	35.377	26.909	116.3	.233	1499.4	115.9
120	11.886	35.401	26.923	115.1	.239	1499.6	120.9
125	11.856	35.404	26.931	114.5	.245	1499.5	125.9
130	11.917	35.453	26.958	112.1	.250	1499.9	130.9
135	11.985	35.470	26.958	112.2	.256	1500.2	135.9
140	12.001	35.485	26.966	111.5	.262	1500.4	140.9
145	11.924	35.474	26.973	111.1	.267	1500.2	145.9
150	11.878	35.470	26.978	110.6	.273	1500.1	150.9
155	11.830	35.466	26.984	110.2	.278	1500.0	155.9
160	11.774	35.455	26.986	110.1	.284	1499.9	160.9
165	11.717	35.451	26.994	109.5	.289	1499.8	165.9
170	11.680	35.453	27.003	108.8	.295	1499.7	170.9
175	11.652	35.453	27.008	108.4	.300	1499.7	175.9
180	11.619	35.453	27.014	107.9	.306	1499.7	180.9
185	11.574	35.452	27.022	107.3	.311	1499.6	185.9
190	11.484	35.437	27.027	106.9	.316	1499.3	190.9
195	11.428	35.438	27.038	105.9	.322	1499.2	195.9
200	11.380	35.437	27.046	105.3	.327	1499.1	200.9
225	10.939	35.386	27.088	101.8	.354	1497.9	226.9
250	10.437	35.336	27.139	97.3	.379	1496.5	251.9
275	9.922	35.281	27.185	93.2	.403	1495.0	276.9
300	8.999	35.190	27.268	85.4	.425	1491.9	301.9
325	8.267	35.135	27.340	78.7	.445	1489.4	326.9
350	7.550	35.085	27.408	72.2	.465	1487.1	352.9
375	7.117	35.073	27.460	67.3	.482	1485.8	377.9
400	6.675	35.053	27.506	63.1	.499	1484.4	402.9
425	6.244	35.040	27.553	58.6	.514	1483.1	427.9
450	6.102	35.034	27.567	57.5	.528	1482.9	452.9
475	5.810	35.023	27.595	54.9	.543	1482.2	478.9
500	5.675	35.021	27.611	53.6	.557	1482.0	503.9
600	4.893	35.003	27.690	46.4	.607	1480.5	604.9
700	4.564	34.998	27.724	43.9	.653	1480.8	705.9
800	4.452	35.003	27.740	43.2	.697	1482.0	806.9
900	4.298	34.998	27.753	42.8	.740	1483.0	907.9
919	4.248	34.995	27.756	42.6	.748	1483.1	926.9

DTH	TEM	SAL	CXG	PHOS	NITR	SIL	NO2	AM
23		34.936						
512		34.998						
914		34.975						

SIGMA-T

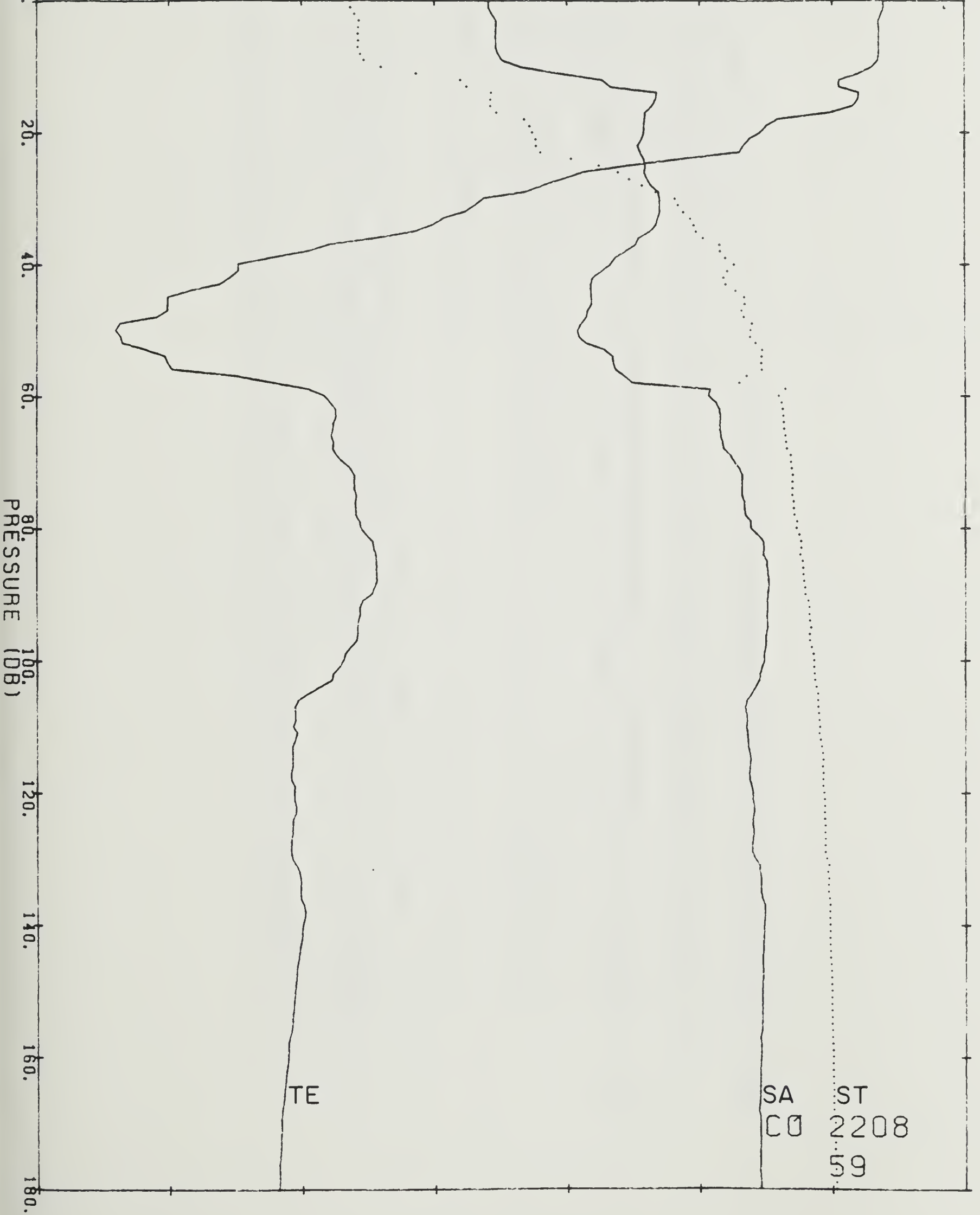
21. 22. 23. 24. 25. 26. 27. 28.

SALINITY (PPT)

30. 31. 32. 33. 34. 35. 36. 37.

TEMPERATURE (DEG C)

8. 10. 12. 14. 16. 18. 20. 22.



TE

SA ST
CO 2208
59

SHIP CO CRUISE 22-08 STATION 60 POSITION 36 18.62 N 74 36.50 W
 LOCAL TIME 539 DATE 79/ 6/25 WIND = DIR = DEPTH=1401M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	20.720	34.035	23.836	405.7	.000	1523.0	.0
5	20.731	34.035	23.833	406.1	.020	1523.1	5.0
10	20.751	34.055	23.843	405.4	.041	1523.2	10.0
15	20.778	34.126	23.890	401.1	.060	1523.5	14.9
20	19.717	34.686	24.598	333.8	.079	1521.3	19.9
25	15.630	34.767	25.653	233.4	.093	1509.5	24.9
30	14.531	35.054	26.116	189.5	.104	1506.4	29.9
35	13.690	35.035	26.280	174.1	.113	1503.8	34.9
40	13.064	34.990	26.373	165.3	.121	1501.7	39.9
45	12.353	34.894	26.439	159.1	.129	1499.3	44.9
50	12.316	35.017	26.542	149.5	.137	1499.4	49.9
55	12.486	35.142	26.606	143.6	.144	1500.2	54.9
60	12.772	35.266	26.645	140.0	.151	1501.4	59.9
65	12.924	35.342	26.674	137.4	.158	1502.1	64.9
70	12.576	35.314	26.721	133.0	.165	1501.0	69.9
75	12.455	35.345	26.769	128.6	.172	1500.7	74.9
80	12.298	35.353	26.806	125.2	.179	1500.3	80.9
85	12.230	35.370	26.833	122.8	.185	1500.1	85.9
90	12.085	35.367	26.858	120.5	.191	1499.7	90.9
95	11.954	35.336	26.860	120.5	.198	1499.3	95.9
100	11.911	35.349	26.878	118.9	.204	1499.2	100.9
105	11.922	35.357	26.882	118.6	.209	1499.4	105.9
110	11.867	35.355	26.891	117.9	.215	1499.3	110.9
115	11.903	35.382	26.905	116.7	.221	1499.5	115.9
120	11.824	35.385	26.923	115.1	.227	1499.3	120.9
125	11.807	35.425	26.957	112.0	.233	1499.4	125.9
130	11.802	35.434	26.965	111.4	.238	1499.5	130.9
135	11.795	35.455	26.982	109.8	.244	1499.5	135.9
140	11.814	35.454	26.978	110.4	.249	1499.7	140.9
145	11.783	35.450	26.981	110.2	.255	1499.7	145.9
150	11.762	35.449	26.984	110.1	.260	1499.7	150.9
155	11.716	35.447	26.991	109.5	.266	1499.6	155.9
160	11.655	35.446	27.002	108.6	.271	1499.5	160.9
165	11.622	35.446	27.008	108.1	.277	1499.4	165.9
170	11.532	35.444	27.023	106.7	.282	1499.2	170.9
175	11.471	35.438	27.030	106.2	.287	1499.1	175.9
180	11.437	35.435	27.034	105.9	.293	1499.0	180.9
185	11.399	35.436	27.042	105.3	.298	1499.0	185.9
190	11.346	35.430	27.047	104.9	.303	1498.8	190.9
195	11.267	35.427	27.060	103.8	.308	1498.6	195.9
200	11.236	35.427	27.065	103.4	.314	1498.6	200.9
225	10.778	35.368	27.103	100.3	.340	1497.4	226.9
250	10.183	35.310	27.163	94.9	.365	1495.6	251.9
275	9.449	35.229	27.224	89.3	.388	1493.2	276.9
300	9.026	35.184	27.258	86.3	.409	1492.0	301.9
325	8.546	35.158	27.314	81.2	.430	1490.5	326.9
350	7.757	35.103	27.391	73.9	.451	1487.9	352.9
375	7.191	35.075	27.451	68.2	.468	1486.1	377.9
400	6.580	35.050	27.516	62.0	.485	1484.0	402.9
425	6.302	35.039	27.544	59.5	.500	1483.3	427.9
450	5.991	35.029	27.577	56.4	.514	1482.5	452.9
475	5.798	35.021	27.595	54.9	.529	1482.1	478.9
500	5.569	35.015	27.619	52.7	.542	1481.6	503.9
600	5.016	35.015	27.685	47.0	.593	1481.0	604.9
700	4.765	35.012	27.712	45.3	.639	1481.6	705.9
800	4.537	35.011	27.737	43.7	.684	1482.3	806.9
900	4.367	35.004	27.750	43.2	.728	1483.3	907.9
1000	4.169	34.990	27.760	42.8	.771	1484.1	1008.9
1100	4.018	34.983	27.771	42.4	.814	1485.1	1109.9
1200	3.889	34.982	27.784	41.8	.857	1486.3	1211.9
1300	3.849	34.981	27.787	42.2	.900	1487.8	1312.9
1400	3.776	34.984	27.797	42.0	.942	1489.1	1413.9
1401	3.775	34.987	27.799	41.7	.943	1489.1	1414.9

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AM
23		34.919						
1003		34.973						
1397		35.007						

SIGMA-T

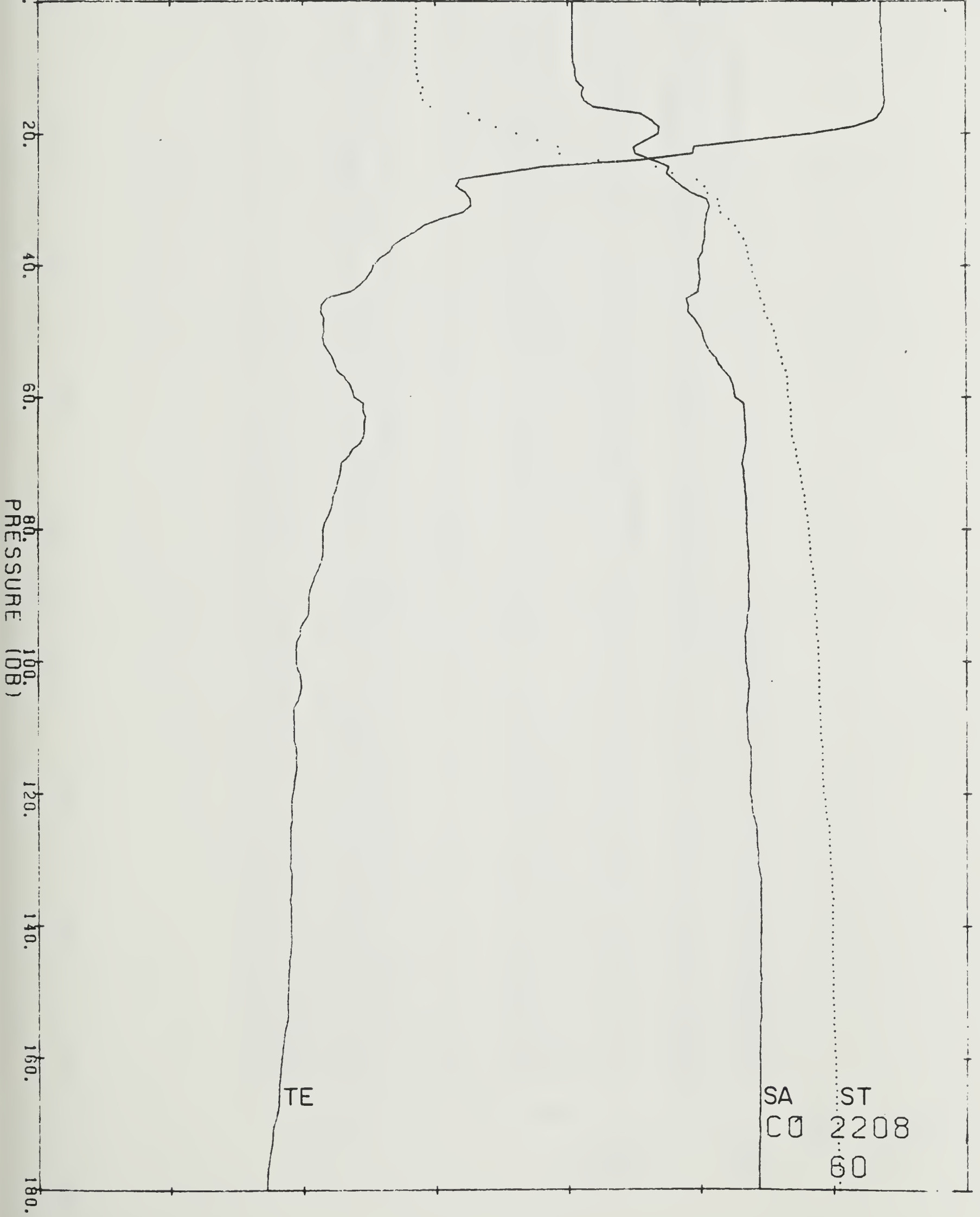
21. 22. 23. 24. 25. 26. 27. 28.

SALINITY (PPT)

30. 31. 32. 33. 34. 35. 36. 37.

TEMPERATURE (DEG C)

8. 10. 12. 14. 16. 18. 20. 22.



SHIP CO CRUISE 22-08 STATION 61 POSITION 36 19.00 N 74 28.00 W
 LOCAL TIME 900 DATE 79/ 6/25 WIND = DIR = DEPTH=1974M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	20.860	34.525	24.172	373.7	.000	1523.9	.0
5	20.889	34.508	24.151	375.8	.019	1524.0	5.0
10	20.891	34.505	24.148	376.3	.038	1524.1	10.0
15	20.878	34.514	24.158	375.5	.056	1524.2	14.9
20	20.831	34.530	24.183	373.3	.075	1524.2	19.9
25	19.328	34.570	24.610	332.8	.092	1520.2	24.9
30	15.976	34.981	25.739	225.4	.106	1510.9	29.9
35	15.250	35.272	26.127	188.6	.117	1509.1	34.9
40	14.831	35.354	26.283	174.0	.126	1507.9	39.9
45	14.175	35.411	26.468	156.5	.134	1506.0	44.9
50	14.146	35.478	26.526	151.1	.142	1506.1	49.9
55	13.173	35.335	26.618	142.5	.149	1502.8	54.9
60	12.979	35.420	26.723	132.6	.156	1502.3	59.9
65	12.868	35.420	26.746	130.6	.163	1502.0	64.9
70	12.980	35.479	26.769	128.6	.169	1502.5	69.9
75	13.065	35.541	26.800	125.8	.175	1503.0	74.9
80	12.987	35.538	26.813	124.7	.183	1502.8	80.9
85	12.838	35.520	26.829	123.3	.189	1502.4	85.9
90	12.459	35.449	26.849	121.4	.195	1501.1	90.9
95	12.007	35.369	26.875	119.0	.201	1499.5	95.9
100	11.952	35.369	26.886	118.2	.207	1499.4	100.9
105	11.937	35.378	26.895	117.4	.213	1499.5	105.9
110	11.960	35.394	26.903	116.7	.219	1499.6	110.9
115	11.911	35.396	26.914	115.8	.225	1499.6	115.9
120	11.932	35.413	26.924	115.1	.230	1499.7	120.9
125	11.960	35.429	26.931	114.5	.236	1499.9	125.9
130	11.934	35.426	26.933	114.4	.242	1499.9	130.9
135	11.988	35.448	26.940	113.9	.248	1500.2	135.9
140	11.971	35.454	26.948	113.3	.253	1500.2	140.9
145	11.911	35.455	26.960	112.2	.259	1500.1	145.9
150	11.863	35.456	26.970	111.4	.265	1500.0	150.9
155	11.858	35.458	26.973	111.3	.270	1500.1	155.9
160	11.863	35.467	26.979	110.8	.276	1500.2	160.9
165	11.787	35.464	26.991	109.8	.281	1500.0	165.9
170	11.715	35.459	27.001	109.0	.287	1499.8	170.9
175	11.665	35.461	27.012	108.0	.292	1499.8	175.9
180	11.621	35.461	27.020	107.3	.297	1499.7	180.9
185	11.541	35.450	27.027	106.8	.303	1499.5	185.9
190	11.455	35.446	27.039	105.7	.308	1499.3	190.9
195	11.347	35.437	27.053	104.5	.313	1498.9	195.9
200	11.271	35.427	27.059	104.0	.319	1498.7	200.9
225	10.711	35.372	27.118	98.8	.345	1497.1	226.9
250	10.105	35.302	27.170	94.2	.369	1495.3	251.9
275	9.453	35.233	27.227	89.0	.392	1493.2	276.9
300	8.910	35.179	27.273	84.9	.414	1491.5	301.9
325	8.156	35.123	27.347	77.9	.434	1489.0	326.9
350	7.663	35.100	27.403	72.7	.454	1487.5	352.9
375	7.134	35.073	27.458	67.6	.471	1485.8	377.9
400	6.587	35.058	27.521	61.5	.487	1484.1	402.9
425	6.118	35.038	27.568	57.1	.502	1482.6	427.9
450	5.813	35.020	27.593	54.8	.516	1481.7	452.9
475	5.582	35.025	27.625	51.8	.530	1481.2	478.9
500	5.437	35.030	27.647	49.9	.543	1481.1	503.9
600	4.888	35.010	27.696	45.8	.591	1480.5	604.9
700	4.632	35.011	27.726	43.8	.636	1481.1	705.9
800	4.376	34.993	27.740	43.1	.680	1481.6	806.9
900	4.294	34.993	27.749	43.1	.724	1482.9	907.9
1000	4.125	34.985	27.761	42.6	.767	1483.9	1008.9
1100	4.039	34.985	27.770	42.5	.810	1485.2	1109.9
1200	3.956	34.982	27.777	42.6	.853	1486.5	1211.9
1300	3.851	34.979	27.785	42.4	.896	1487.8	1312.9
1400	3.762	34.979	27.794	42.1	.939	1489.1	1413.9
1500	3.718	34.979	27.799	42.4	.982	1490.6	1515.9
1600	3.663	34.980	27.805	42.5	1.025	1492.0	1616.9
1700	3.612	34.982	27.812	42.5	1.068	1493.5	1718.9
1800	3.566	34.984	27.818	42.6	1.111	1495.0	1819.9
1900	3.486	34.982	27.824	42.4	1.155	1496.3	1921.9
1974	3.429	34.981	27.829	42.3	1.186	1497.4	1996.9

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AM
18		35.182						
1503		34.965						
1960		34.989						

SIGMA-T

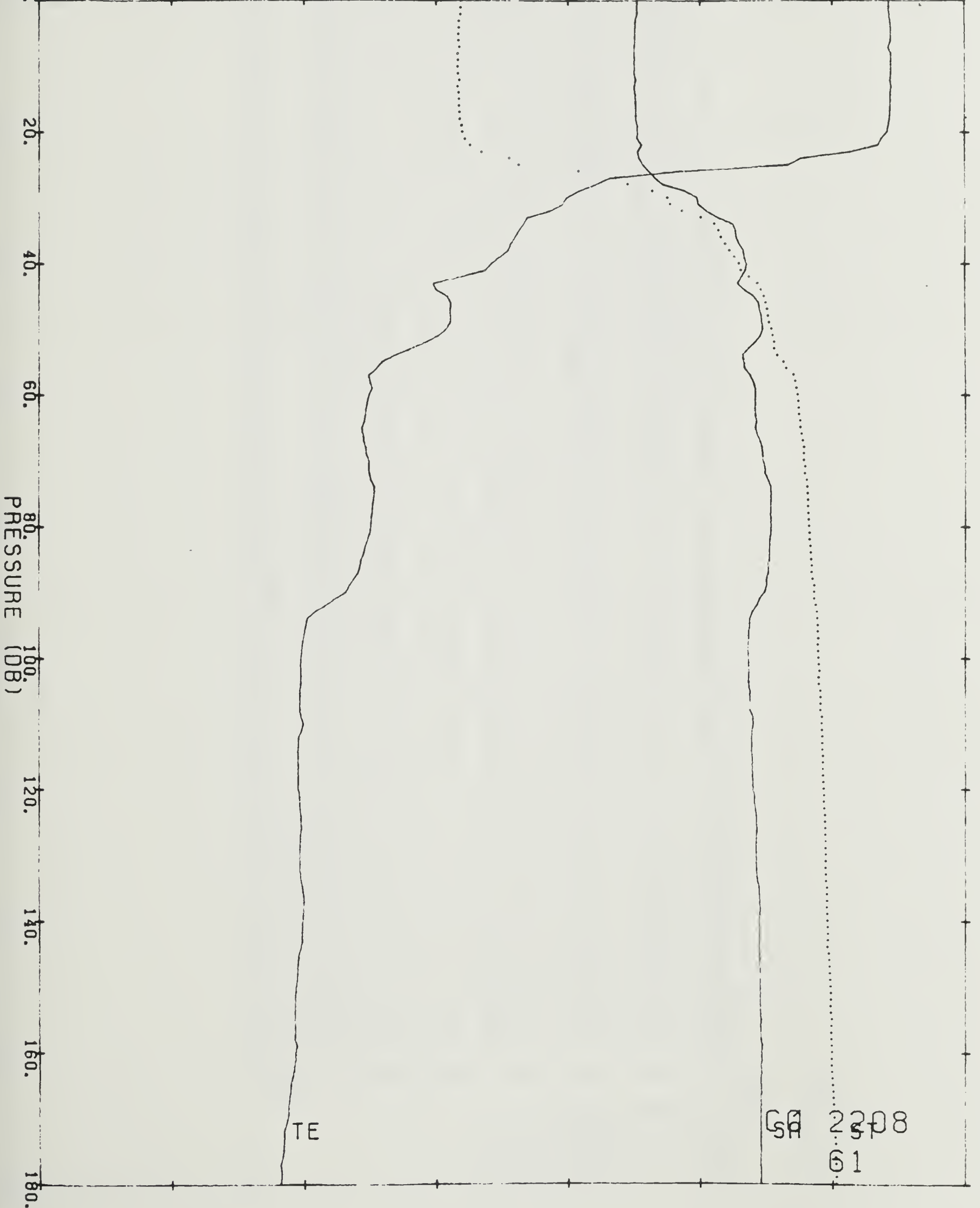
21. 22. 23. 24. 25. 26. 27. 28.

SALINITY (PPT)

30. 31. 32. 33. 34. 35. 36. 37.

TEMPERATURE (DEG C)

8. 10. 12. 14. 16. 18. 20. 22.



SHIP CD CRUISE 22-08 STATION 62 POSITION 36 18.71 N 74 15.84 W
 LOCAL TIME 1446 DATE 79/ 6/25 WIND = DIR = DEPTH=2224M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	20.864	34.385	24.064	384.0	.000	1523.7	.0
5	20.868	34.381	24.060	384.5	.019	1523.8	5.0
10	20.868	34.381	24.060	384.7	.039	1523.9	10.0
15	20.869	34.379	24.058	385.0	.057	1524.0	14.9
20	19.336	34.772	24.762	318.1	.075	1520.4	19.9
25	16.744	35.110	25.660	232.8	.089	1513.3	24.9
30	15.258	35.159	26.038	196.9	.099	1508.9	29.9
35	14.686	35.383	26.337	168.7	.109	1507.4	34.9
40	14.372	35.403	26.420	160.9	.117	1506.5	39.9
45	14.033	35.288	26.404	162.6	.125	1505.4	44.9
50	12.469	35.124	26.595	144.5	.133	1500.0	49.9
55	12.990	35.344	26.662	138.3	.140	1502.2	54.9
60	13.620	35.569	26.707	134.2	.146	1504.6	59.9
65	13.824	35.658	26.734	131.9	.153	1505.5	64.9
70	13.904	35.704	26.752	130.3	.160	1505.9	69.9
75	13.878	35.739	26.785	127.3	.166	1505.9	74.9
80	13.752	35.729	26.804	125.7	.174	1505.6	80.9
85	13.521	35.699	26.829	123.4	.180	1504.9	85.9
90	13.347	35.676	26.847	121.8	.186	1504.4	90.9
95	13.039	35.618	26.865	120.2	.192	1503.3	95.9
100	12.854	35.590	26.880	118.8	.198	1502.8	100.9
105	12.708	35.561	26.887	118.3	.204	1502.3	105.9
110	12.611	35.535	26.886	118.5	.210	1502.0	110.9
115	12.452	35.517	26.903	117.0	.216	1501.6	115.9
120	12.397	35.511	26.910	116.5	.222	1501.4	120.9
125	12.292	35.495	26.918	115.8	.228	1501.1	125.9
130	12.237	35.497	26.930	114.8	.233	1501.0	130.9
135	12.161	35.492	26.941	113.9	.239	1500.9	135.9
140	12.084	35.481	26.947	113.4	.245	1500.7	140.9
145	12.036	35.481	26.957	112.6	.250	1500.6	145.9
150	11.952	35.470	26.964	112.0	.256	1500.4	150.9
155	11.875	35.462	26.973	111.3	.262	1500.2	155.9
160	11.832	35.461	26.980	110.7	.267	1500.1	160.9
165	11.792	35.459	26.986	110.2	.273	1500.0	165.9
170	11.756	35.458	26.992	109.8	.278	1500.0	170.9
175	11.674	35.454	27.005	108.7	.284	1499.8	175.9
180	11.674	35.456	27.006	108.7	.289	1499.9	180.9
185	11.597	35.455	27.020	107.5	.294	1499.7	185.9
190	11.511	35.444	27.028	106.8	.300	1499.4	190.9
195	11.411	35.435	27.039	105.8	.305	1499.2	195.9
200	11.342	35.439	27.055	104.4	.310	1499.0	200.9
225	10.954	35.396	27.093	101.3	.337	1498.0	226.9
250	10.372	35.333	27.148	96.4	.362	1496.3	251.9
275	9.634	35.247	27.208	91.0	.385	1493.9	276.9
300	9.045	35.186	27.257	86.5	.407	1492.0	301.9
325	8.387	35.131	27.318	80.8	.428	1489.9	326.9
350	8.009	35.110	27.359	77.1	.449	1488.9	352.9
375	7.629	35.093	27.402	73.2	.468	1487.8	377.9
400	7.032	35.058	27.460	67.6	.485	1485.8	402.9
425	6.603	35.054	27.516	62.4	.501	1484.5	427.9
450	6.253	35.051	27.560	58.3	.517	1483.5	452.9
475	6.001	35.044	27.588	55.8	.531	1483.0	478.9
500	5.747	35.040	27.617	53.1	.545	1482.3	503.9
600	5.139	35.034	27.686	47.2	.596	1481.5	604.9
700	4.696	35.019	27.725	44.0	.642	1481.3	705.9
800	4.489	35.013	27.744	43.0	.686	1482.1	806.9
900	4.247	34.992	27.754	42.6	.729	1482.8	907.9
1000	4.120	34.985	27.762	42.5	.772	1483.9	1008.9
1100	4.018	34.983	27.771	42.4	.815	1485.1	1109.9
1200	3.912	34.977	27.777	42.4	.858	1486.3	1211.9
1300	3.853	34.979	27.785	42.4	.901	1487.8	1312.9
1400	3.811	34.985	27.794	42.3	.943	1489.3	1413.9
1500	3.729	34.984	27.802	42.2	.987	1490.6	1515.9
1600	3.645	34.980	27.807	42.3	1.029	1491.9	1616.9
1700	3.567	34.980	27.815	42.1	1.072	1493.3	1718.9
1800	3.487	34.980	27.823	41.8	1.115	1494.7	1819.9
1900	3.393	34.979	27.831	41.4	1.157	1496.0	1921.9
2000	3.310	34.977	27.838	41.2	1.199	1497.3	2022.9
2100	3.151	34.973	27.850	40.0	1.240	1498.3	2124.9
2200	3.006	34.971	27.862	38.9	1.280	1499.4	2226.9
2224	2.990	34.970	27.862	38.9	1.290	1499.7	2250.9

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AM
23	18.860	34.850	6.11					
113	12.490	35.519	4.74					
261		35.269	3.25					
1090		34.973	6.07					
1776	3.530	34.970	6.16					
2221		35.016	5.74					

SIGMA-T

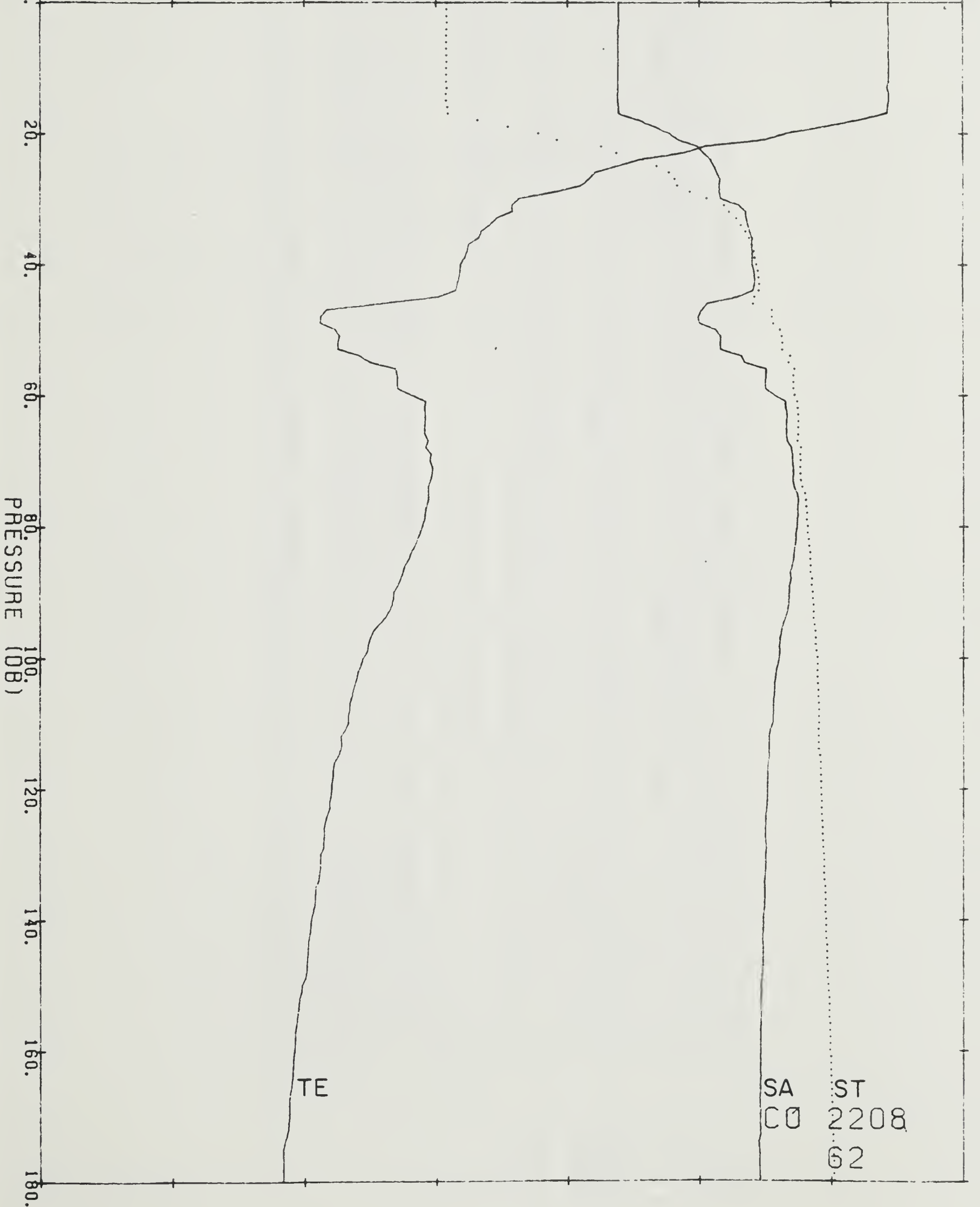
21. 22. 23. 24. 25. 26. 27. 28.

SALINITY (PPT)

30. 31. 32. 33. 34. 35. 36. 37.

TEMPERATURE (DEG C)

8. 10. 12. 14. 16. 18. 20. 22.



SHIP CO CRUISE 22-08 STATION 63 POSITION 36 17.80 N 74 2.34 W
 LOCAL TIME 1 DATE 79/ 6/25 WIND = DIR = DEPTH=2554M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	21.806	34.592	23.963	393.5	.000	1526.5	.0
5	21.838	34.565	23.934	396.5	.020	1526.6	5.0
10	21.840	34.568	23.936	396.5	.040	1526.7	10.0
15	21.848	34.568	23.933	396.9	.059	1526.8	14.9
20	16.806	33.710	24.571	336.2	.077	1511.7	19.9
25	14.460	33.593	25.004	295.0	.093	1504.3	24.9
30	15.120	34.625	25.657	233.1	.106	1507.8	29.9
35	13.353	34.478	25.918	208.4	.117	1502.0	34.9
40	9.751	34.010	26.221	179.5	.127	1488.9	39.9
45	11.454	34.217	26.084	192.8	.136	1495.3	44.9
50	13.820	35.075	26.284	174.1	.146	1504.5	49.9
55	13.052	35.022	26.400	163.1	.154	1502.0	54.9
60	13.510	35.375	26.580	146.3	.162	1504.0	59.9
65	13.048	35.335	26.643	140.3	.169	1502.5	64.9
70	13.062	35.398	26.689	136.1	.176	1502.7	69.9
75	13.202	35.522	26.757	129.8	.183	1503.4	74.9
80	13.230	35.547	26.771	128.7	.189	1503.6	79.9
85	12.912	35.512	26.808	125.3	.197	1502.6	85.9
90	12.920	35.540	26.828	123.5	.203	1502.8	90.9
95	12.818	35.556	26.861	120.5	.209	1502.5	95.9
100	12.745	35.560	26.879	119.0	.215	1502.4	100.9
105	12.554	35.534	26.896	117.4	.221	1501.8	105.9
110	12.293	35.500	26.921	115.1	.227	1500.9	110.9
115	12.307	35.504	26.922	115.2	.232	1501.0	115.9
120	12.273	35.491	26.918	115.6	.238	1501.0	120.9
125	12.110	35.468	26.932	114.4	.244	1500.5	125.9
130	12.043	35.466	26.944	113.5	.250	1500.3	130.9
135	12.039	35.470	26.947	113.2	.255	1500.4	135.9
140	11.913	35.452	26.958	112.3	.261	1500.0	140.9
145	11.858	35.447	26.964	111.8	.267	1499.9	145.9
150	11.877	35.463	26.973	111.1	.272	1500.1	150.9
155	11.847	35.467	26.982	110.4	.278	1500.1	155.9
160	11.866	35.475	26.984	110.3	.283	1500.2	160.9
165	11.767	35.470	26.999	109.0	.289	1500.0	165.9
170	11.605	35.446	27.011	107.9	.294	1499.4	170.9
175	11.541	35.448	27.025	106.7	.299	1499.3	175.9
180	11.500	35.446	27.031	106.3	.305	1499.2	180.9
185	11.412	35.434	27.038	105.7	.310	1499.0	185.9
190	11.347	35.432	27.049	104.8	.315	1498.9	190.9
195	11.299	35.430	27.056	104.2	.321	1498.8	195.9
200	11.199	35.427	27.072	102.7	.326	1498.5	200.9
225	10.688	35.369	27.120	98.7	.352	1497.0	226.9
250	10.004	35.292	27.180	93.2	.376	1494.9	251.9
275	9.596	35.244	27.212	90.6	.399	1493.7	276.9
300	8.952	35.180	27.267	85.4	.421	1491.7	301.9
325	8.483	35.137	27.308	81.8	.442	1490.3	326.9
350	7.770	35.106	27.392	73.9	.462	1487.9	352.9
375	7.336	35.081	27.435	69.8	.480	1486.6	377.9
400	6.876	35.060	27.484	65.3	.497	1485.2	402.9
425	6.593	35.057	27.520	62.0	.513	1484.5	427.9
450	6.294	35.049	27.553	59.0	.528	1483.7	452.9
475	6.029	35.048	27.587	55.9	.543	1483.1	478.9
500	5.721	35.046	27.625	52.4	.556	1482.2	503.9
600	5.065	35.031	27.692	46.5	.606	1481.2	604.9
700	4.704	35.025	27.729	43.6	.652	1481.4	705.9
800	4.528	35.022	27.747	42.8	.695	1482.3	806.9
900	4.346	35.012	27.759	42.3	.738	1483.2	907.9
1000	4.176	35.000	27.768	42.1	.781	1484.1	1008.9
1100	4.043	34.994	27.777	41.9	.823	1485.2	1109.9
1200	3.945	34.988	27.783	42.0	.866	1486.5	1211.9
1300	3.860	34.983	27.787	42.2	.909	1487.8	1312.9
1400	3.788	34.985	27.796	42.0	.951	1489.2	1413.9
1500	3.784	34.993	27.803	42.3	.994	1490.9	1515.9
1600	3.641	34.986	27.812	41.8	1.037	1491.9	1616.9
1700	3.606	34.987	27.816	42.1	1.079	1493.5	1718.9
1800	3.543	34.991	27.826	41.7	1.122	1494.9	1819.9
1900	3.445	34.989	27.834	41.4	1.164	1496.2	1921.9
2000	3.379	34.987	27.839	41.4	1.206	1497.6	2022.9
2100	3.270	34.984	27.847	40.9	1.248	1498.8	2124.9
2200	3.174	34.981	27.854	40.5	1.289	1500.1	2226.9
2300	3.093	34.976	27.857	40.4	1.331	1501.5	2328.9
2400	2.988	34.973	27.865	39.8	1.371	1502.8	2430.9
2500	2.764	34.961	27.876	38.1	1.411	1503.5	2531.9
2554	2.587	34.956	27.887	36.3	1.431	1503.6	2586.9

DTH	TEM	SAL	DXG	PHOS	NITR	SIL	NO2	AM
24	16.010	34.246	6.39					
37	14.700	35.330	6.02					
508	5.610	35.018	5.23					
1044		34.982						
1982		34.969	6.14					
2544	2.590	34.931	6.21					

SIGMA-T

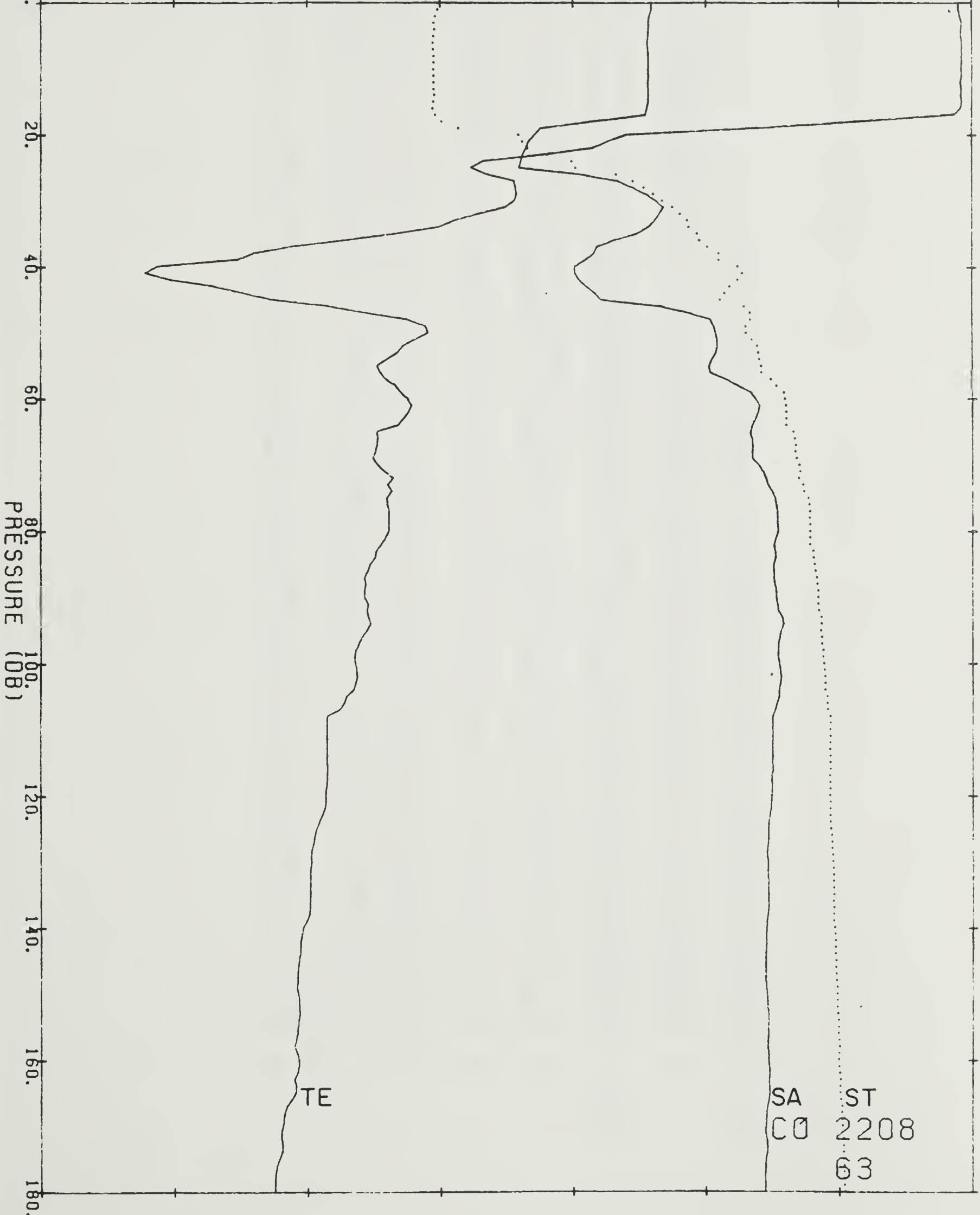
21. 22. 23. 24. 25. 26. 27. 28.

SALINITY (PPT)

30. 31. 32. 33. 34. 35. 36. 37.

TEMPERATURE (DEG C)

8. 10. 12. 14. 16. 18. 20. 22.



SHIP CO CRUISE 22-08 STATION 64 POSITION 36 3.50 N 74 16.70 W
 LOCAL TIME 426 DATE 79/ 6/26 WIND * DIR * DEPTH=2194M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	24.255	36.138	24.429	349.2	.000	1534.3	.0
5	24.318	36.140	24.411	351.0	.018	1534.6	5.0
10	24.333	36.138	24.405	351.8	.035	1534.7	10.0
15	24.344	36.139	24.403	352.2	.052	1534.8	14.9
20	24.310	36.144	24.417	351.1	.070	1534.8	19.9
25	23.590	36.140	24.628	331.2	.087	1533.1	24.9
30	20.673	36.150	25.460	252.1	.102	1525.8	29.9
35	19.297	36.130	25.810	219.0	.113	1522.1	34.9
40	18.480	36.135	26.022	198.9	.124	1519.9	39.9
45	18.016	36.130	26.135	188.4	.134	1518.6	44.9
50	17.228	36.130	26.328	170.2	.142	1516.4	49.9
55	16.888	36.115	26.398	163.7	.151	1515.5	54.9
60	16.060	36.060	26.550	149.3	.159	1513.0	59.9
65	15.952	36.057	26.573	147.3	.166	1512.7	64.9
70	15.650	36.027	26.619	143.1	.173	1511.8	69.9
75	15.356	36.007	26.670	138.4	.180	1511.0	74.9
80	15.110	35.985	26.708	134.9	.187	1510.3	79.9
85	14.983	35.974	26.728	133.2	.195	1509.9	85.9
90	14.774	35.943	26.750	131.2	.202	1509.3	90.9
95	14.504	35.908	26.782	128.3	.208	1508.5	95.9
100	14.094	35.860	26.833	123.5	.215	1507.2	100.9
105	13.984	35.833	26.835	123.4	.221	1506.9	105.9
110	13.859	35.824	26.855	121.7	.227	1506.5	110.9
115	13.627	35.791	26.878	119.6	.233	1505.8	115.9
120	13.409	35.760	26.899	117.7	.239	1505.2	120.9
125	13.192	35.728	26.919	115.9	.245	1504.5	125.9
130	12.974	35.697	26.939	114.1	.251	1503.8	130.9
135	12.877	35.677	26.943	113.8	.256	1503.5	135.9
140	12.572	35.625	26.964	112.0	.262	1502.5	140.9
145	12.430	35.600	26.972	111.2	.267	1502.1	145.9
150	12.243	35.576	26.990	109.6	.273	1501.5	150.9
155	12.239	35.577	26.992	109.6	.278	1501.6	155.9
160	12.132	35.563	27.002	108.7	.284	1501.3	160.9
165	11.999	35.542	27.011	108.0	.289	1500.9	165.9
170	11.847	35.514	27.018	107.3	.295	1500.4	170.9
175	11.724	35.501	27.032	106.2	.300	1500.0	175.9
180	11.625	35.487	27.040	105.5	.305	1499.7	180.9
185	11.460	35.469	27.057	104.0	.311	1499.2	185.9
190	11.318	35.444	27.063	103.4	.316	1498.8	190.9
195	11.232	35.438	27.075	102.4	.321	1498.5	195.9
200	11.164	35.423	27.076	102.4	.326	1498.4	200.9
225	10.864	35.366	27.086	101.9	.353	1497.7	226.9
250	10.379	35.328	27.143	96.9	.377	1496.3	251.9
275	9.944	35.277	27.178	93.9	.401	1495.0	276.9
300	9.405	35.222	27.226	89.6	.424	1493.4	301.9
325	8.850	35.157	27.266	86.0	.446	1491.7	326.9
350	8.297	35.162	27.356	77.6	.467	1490.0	352.9
375	7.386	35.084	27.431	70.3	.486	1486.8	377.9
400	7.087	35.066	27.459	67.8	.503	1486.0	402.9
425	6.730	35.055	27.500	64.1	.520	1485.0	427.9
450	6.359	35.043	27.540	60.3	.535	1484.0	452.9
475	5.979	35.029	27.579	56.6	.550	1482.9	478.9
500	5.732	35.024	27.606	54.1	.564	1482.3	503.9
600	5.239	35.034	27.674	48.4	.616	1481.9	604.9
700	4.812	35.019	27.712	45.4	.663	1481.8	705.9
800	4.540	35.010	27.736	43.8	.708	1482.3	806.9
900	4.332	35.000	27.751	43.0	.752	1483.1	907.9
1000	4.179	34.991	27.760	42.8	.796	1484.1	1008.9
1100	4.081	34.984	27.765	43.1	.839	1485.4	1109.9
1200	3.995	34.984	27.774	42.9	.883	1486.7	1211.9
1300	3.905	34.980	27.780	43.0	.926	1488.0	1312.9
1400	3.819	34.982	27.791	42.7	.970	1489.3	1413.9
1500	3.743	34.979	27.796	42.8	1.013	1490.7	1515.9
1600	3.684	34.981	27.804	42.7	1.056	1492.1	1616.9
1700	3.622	34.984	27.812	42.5	1.100	1493.5	1718.9
1800	3.529	34.986	27.823	41.9	1.142	1494.8	1819.9
1900	3.427	34.983	27.831	41.6	1.185	1496.1	1921.9
2000	3.342	34.981	27.838	41.3	1.227	1497.4	2022.9
2100	3.274	34.980	27.843	41.2	1.269	1498.8	2124.9
2179	3.169	34.980	27.853	40.3	1.301	1499.7	2204.9

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AM
0		35.829						
111		35.823						
1004		34.974						
2194		35.014						

SIGMA-T

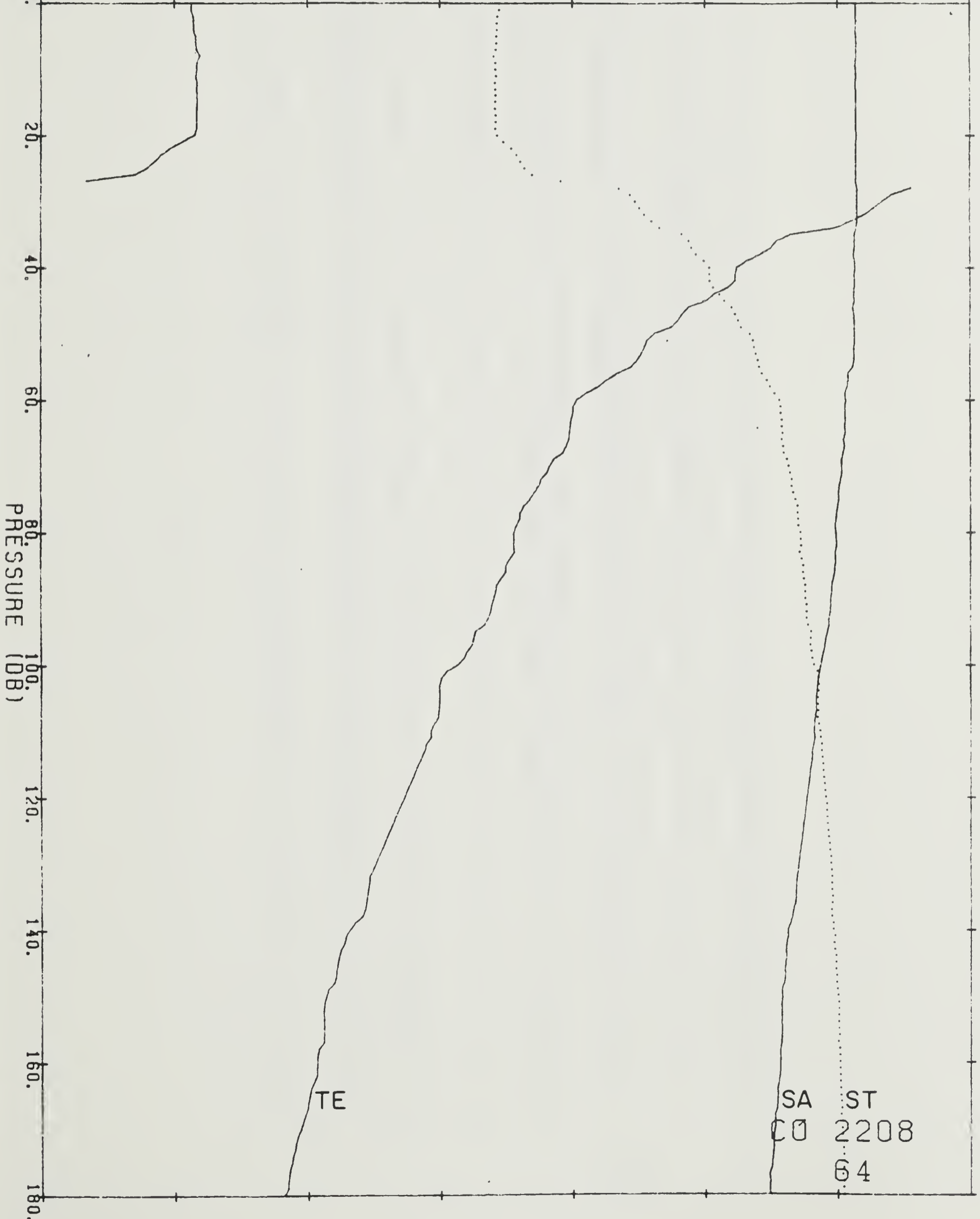
21. 22. 23. 24. 25. 26. 27. 28.

SALINITY (PPT)

30. 31. 32. 33. 34. 35. 36. 37.

TEMPERATURE (DEG C)

20. 10. 12. 14. 16. 18. 20. 22.



SHIP CO CRUISE 22-08 STATION 65 POSITION 35 43.00 N 74 37.80 W
 LOCAL TIME 805 DATE 79/ 6/26 WIND = DIR = DEPTH=1935M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	14.425	34.500	25.712	227.1	.000	1504.9	.0
5	14.425	34.498	25.710	227.4	.011	1505.0	5.0
10	14.425	34.496	25.708	227.7	.023	1505.1	10.0
15	14.425	34.494	25.707	227.9	.034	1505.2	14.9
20	14.425	34.492	25.705	228.2	.045	1505.3	19.9
25	14.425	34.490	25.704	228.5	.057	1505.3	24.9
30	14.425	34.488	25.702	228.8	.068	1505.4	29.9
35	14.425	34.486	25.701	229.1	.080	1505.5	34.9
40	14.425	34.484	25.699	229.4	.091	1505.6	39.9
45	12.398	34.240	25.923	208.1	.102	1498.6	44.9
50	10.717	34.175	26.184	183.3	.112	1492.7	49.9
55	10.300	34.168	26.251	177.0	.121	1491.3	54.9
60	10.089	34.210	26.320	170.5	.130	1490.7	59.9
65	10.393	34.337	26.367	166.2	.138	1492.0	64.9
70	10.820	34.368	26.316	171.2	.146	1493.7	69.9
75	10.277	34.392	26.430	160.4	.155	1491.8	74.9
80	10.316	34.640	26.617	142.9	.164	1492.4	80.9
85	11.057	34.893	26.682	136.9	.171	1495.4	85.9
90	11.255	35.014	26.740	131.6	.177	1496.4	90.9
95	11.413	35.097	26.776	128.3	.184	1497.1	95.9
100	11.684	35.153	26.769	129.2	.190	1498.2	100.9
105	11.502	35.136	26.789	127.3	.197	1497.6	105.9
110	11.823	35.283	26.843	122.4	.203	1499.0	110.9
115	12.160	35.390	26.862	120.8	.209	1500.4	115.9
120	12.050	35.385	26.879	119.3	.215	1500.1	120.9
125	11.979	35.383	26.891	118.3	.221	1499.9	125.9
130	12.025	35.418	26.910	116.7	.227	1500.2	130.9
135	12.046	35.439	26.922	115.6	.233	1500.4	135.9
140	12.059	35.449	26.927	115.3	.239	1500.5	140.9
145	12.096	35.465	26.933	114.9	.244	1500.8	145.9
150	12.094	35.478	26.943	114.0	.250	1500.9	150.9
155	12.083	35.482	26.948	113.7	.256	1500.9	155.9
160	12.057	35.483	26.954	113.2	.261	1500.9	160.9
165	12.073	35.492	26.958	113.0	.267	1501.0	165.9
170	12.020	35.483	26.961	112.8	.273	1500.9	170.9
175	11.888	35.466	26.973	111.7	.278	1500.5	175.9
180	11.833	35.462	26.981	111.2	.284	1500.4	180.9
185	11.791	35.458	26.985	110.8	.289	1500.4	185.9
190	11.750	35.453	26.989	110.5	.295	1500.3	190.9
195	11.655	35.449	27.004	109.2	.300	1500.0	195.9
200	11.555	35.447	27.021	107.7	.306	1499.8	200.9
225	11.161	35.435	27.085	102.1	.333	1498.8	226.9
250	10.750	35.386	27.122	99.1	.358	1497.7	251.9
275	10.071	35.298	27.173	94.5	.382	1495.5	276.9
300	9.436	35.255	27.247	87.7	.405	1493.6	301.9
325	8.527	35.143	27.306	82.0	.426	1490.4	326.9
350	7.908	35.111	27.375	75.5	.447	1488.5	352.9
375	6.857	35.055	27.482	65.0	.465	1484.7	377.9
400	6.474	35.043	27.525	61.1	.480	1483.6	402.9
425	6.068	35.030	27.568	57.0	.495	1482.4	427.9
450	5.876	35.031	27.593	54.8	.509	1482.0	452.9
475	5.484	35.010	27.626	51.7	.523	1480.8	478.9
500	5.271	35.009	27.651	49.4	.535	1480.4	503.9
600	4.718	34.996	27.705	44.8	.583	1479.7	604.9
700	4.537	34.987	27.718	44.4	.628	1480.6	705.9
800	4.448	34.988	27.729	44.3	.673	1481.9	806.9
900	4.304	34.985	27.742	43.8	.717	1483.0	907.9
1000	4.183	34.983	27.753	43.5	.761	1484.1	1008.9
1100	4.073	34.980	27.763	43.3	.805	1485.3	1109.9
1200	3.978	34.982	27.774	42.9	.849	1486.6	1211.9
1300	3.883	34.980	27.783	42.7	.892	1487.9	1312.9
1400	3.798	34.981	27.792	42.5	.935	1489.2	1413.9
1500	3.683	34.985	27.807	41.6	.978	1490.4	1515.9
1600	3.642	34.986	27.812	41.8	1.020	1491.9	1616.9
1700	3.524	34.987	27.825	41.0	1.063	1493.1	1718.9
1800	3.433	34.987	27.834	40.6	1.104	1494.4	1819.9
1900	3.390	34.985	27.836	40.9	1.145	1495.9	1921.9
1935	3.389	34.985	27.836	41.2	1.160	1496.5	1956.9

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AM
1		31.488						
58		34.177						
1931		34.973						

SIGMA-T

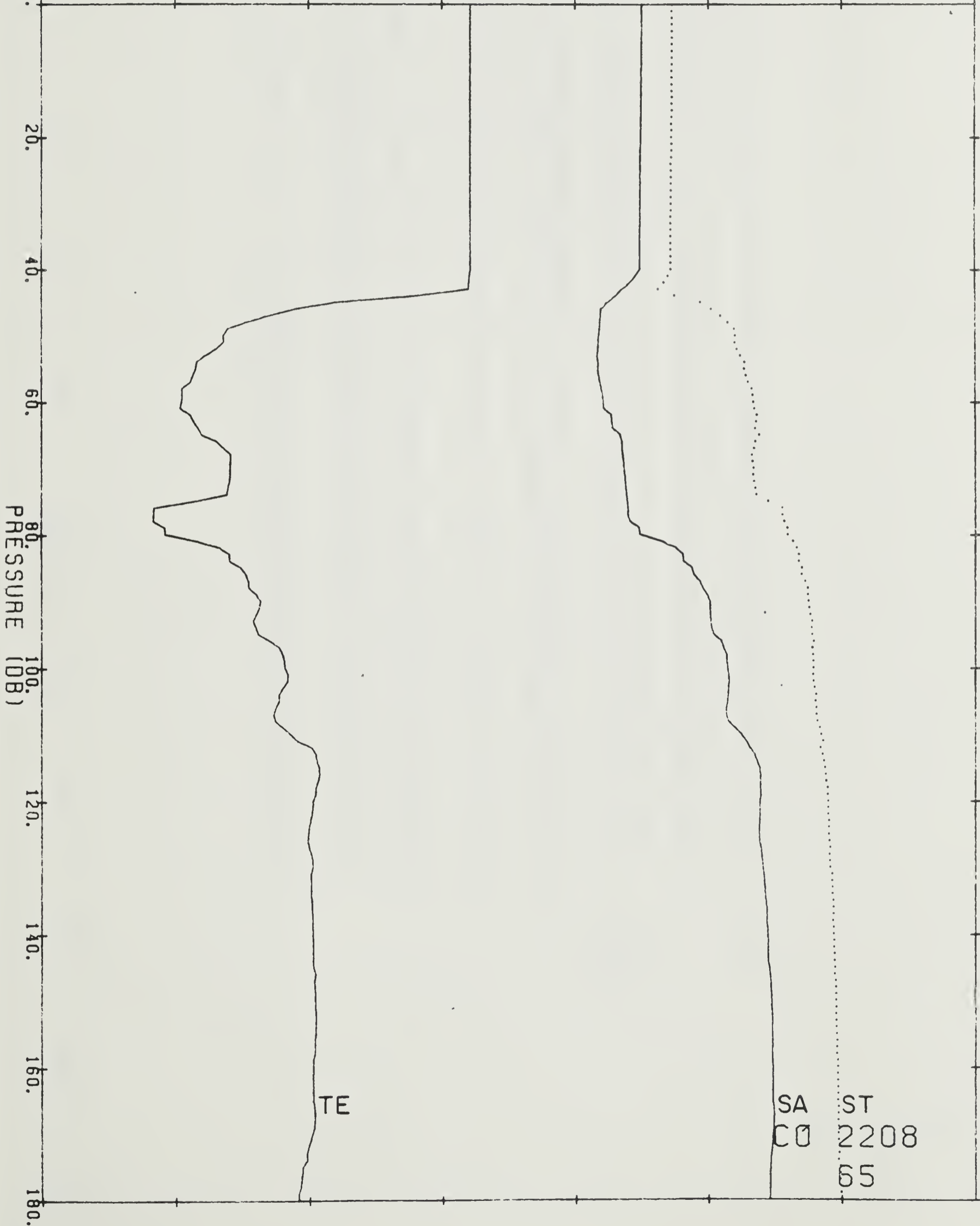
21. 22. 23. 24. 25. 26. 27. 28.

SALINITY (PPT)

30. 31. 32. 33. 34. 35. 36. 37.

TEMPERATURE (DEG C)

8. 10. 12. 14. 16. 18. 20. 22.



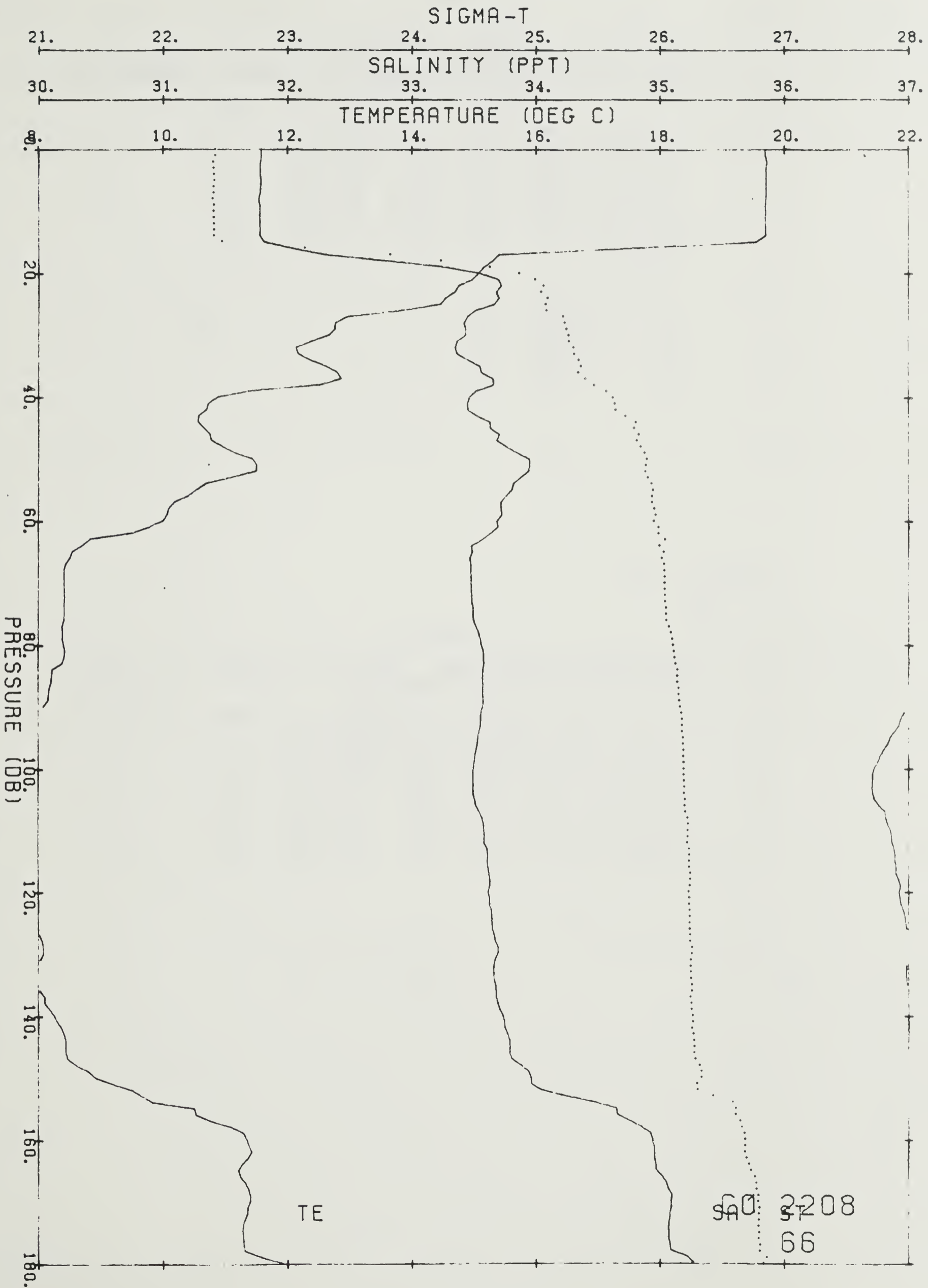
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SA ST
CO 2208
65

SHIP CO CRUISE 22-08 STATION 66 POSITION 35 37.30 N 74 47.80 W
 LOCAL TIME 1527 DATE 79/ 6/26 WIND = DIR = DEPTH= 541M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	19.696	31.786	22.392	543.7	.000	1517.5	.0
5	19.710	31.785	22.387	544.2	.027	1517.6	5.0
10	19.702	31.776	22.382	544.9	.055	1517.7	10.0
15	19.540	31.810	22.450	538.6	.081	1517.4	14.9
20	15.070	33.557	24.845	310.1	.102	1506.2	19.9
25	14.456	33.664	25.060	289.8	.117	1504.4	24.9
30	12.658	33.428	25.243	272.4	.131	1498.2	29.9
35	12.619	33.547	25.343	263.0	.145	1498.3	34.9
40	10.874	33.460	25.599	238.6	.157	1492.2	39.9
45	10.660	33.632	25.771	222.4	.169	1491.8	44.9
50	11.441	33.945	25.874	212.7	.180	1495.0	49.9
55	10.541	33.802	25.924	208.0	.190	1491.7	54.9
60	9.993	33.686	25.928	207.8	.201	1489.7	59.9
65	8.545	33.485	26.003	200.5	.211	1484.1	64.9
70	8.416	33.476	26.015	199.4	.221	1483.7	69.9
75	8.414	33.493	26.029	198.2	.231	1483.8	74.9
80	8.404	33.561	26.084	193.1	.241	1483.9	79.9
85	8.203	33.570	26.121	189.6	.250	1483.2	84.9
90	8.070	33.571	26.142	187.7	.260	1482.8	89.9
95	7.660	33.526	26.166	185.4	.271	1481.3	95.9
100	7.413	33.490	26.173	184.8	.280	1480.3	100.9
105	7.520	33.514	26.176	184.5	.289	1480.9	105.9
110	7.725	33.585	26.203	182.1	.298	1481.8	110.9
115	7.807	33.615	26.215	181.1	.307	1482.3	115.9
120	7.863	33.627	26.216	181.1	.316	1482.6	120.9
125	7.977	33.653	26.220	180.9	.326	1483.1	125.9
130	8.026	33.670	26.226	180.4	.335	1483.4	130.9
135	8.020	33.683	26.237	179.4	.344	1483.5	135.9
140	8.303	33.750	26.247	178.6	.353	1484.7	140.9
145	8.444	33.792	26.259	177.6	.361	1485.4	145.9
150	9.200	33.966	26.277	176.2	.370	1488.6	150.9
155	10.529	34.654	26.591	147.0	.378	1494.4	155.9
160	11.383	34.950	26.667	140.2	.386	1497.9	160.9
165	11.238	35.015	26.744	132.9	.392	1497.5	165.9
170	11.356	35.091	26.782	129.6	.399	1498.1	170.9
175	11.288	35.071	26.779	129.9	.405	1497.9	175.9
180	11.965	35.330	26.853	123.3	.412	1500.7	180.9
185	11.987	35.393	26.897	119.2	.418	1500.9	185.9
190	11.996	35.396	26.898	119.3	.424	1501.1	190.9
195	12.036	35.439	26.924	117.0	.430	1501.3	195.9
200	12.011	35.467	26.950	114.6	.435	1501.4	200.9
225	11.691	35.457	27.004	110.0	.464	1500.7	225.9
250	11.371	35.435	27.047	106.5	.492	1499.9	251.9
275	10.772	35.370	27.106	101.2	.518	1498.1	276.9
300	10.118	35.301	27.167	95.6	.542	1496.1	301.9
325	9.577	35.246	27.216	91.1	.566	1494.5	326.9
350	8.466	35.139	27.312	81.9	.587	1490.6	351.9
375	7.638	35.097	27.404	73.0	.607	1487.8	377.9
400	7.094	35.065	27.457	68.0	.625	1486.1	402.9
425	6.851	35.063	27.489	65.1	.642	1485.5	427.9
450	6.369	35.043	27.539	60.4	.657	1484.0	452.9
475	6.025	35.031	27.574	57.1	.672	1483.0	477.9
500	5.810	35.024	27.596	55.2	.687	1482.6	503.9
541	5.585	35.020	27.621	53.1	.709	1482.3	544.9

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AM
2		31.959						
42		33.511						
52		33.838						
539		34.999						



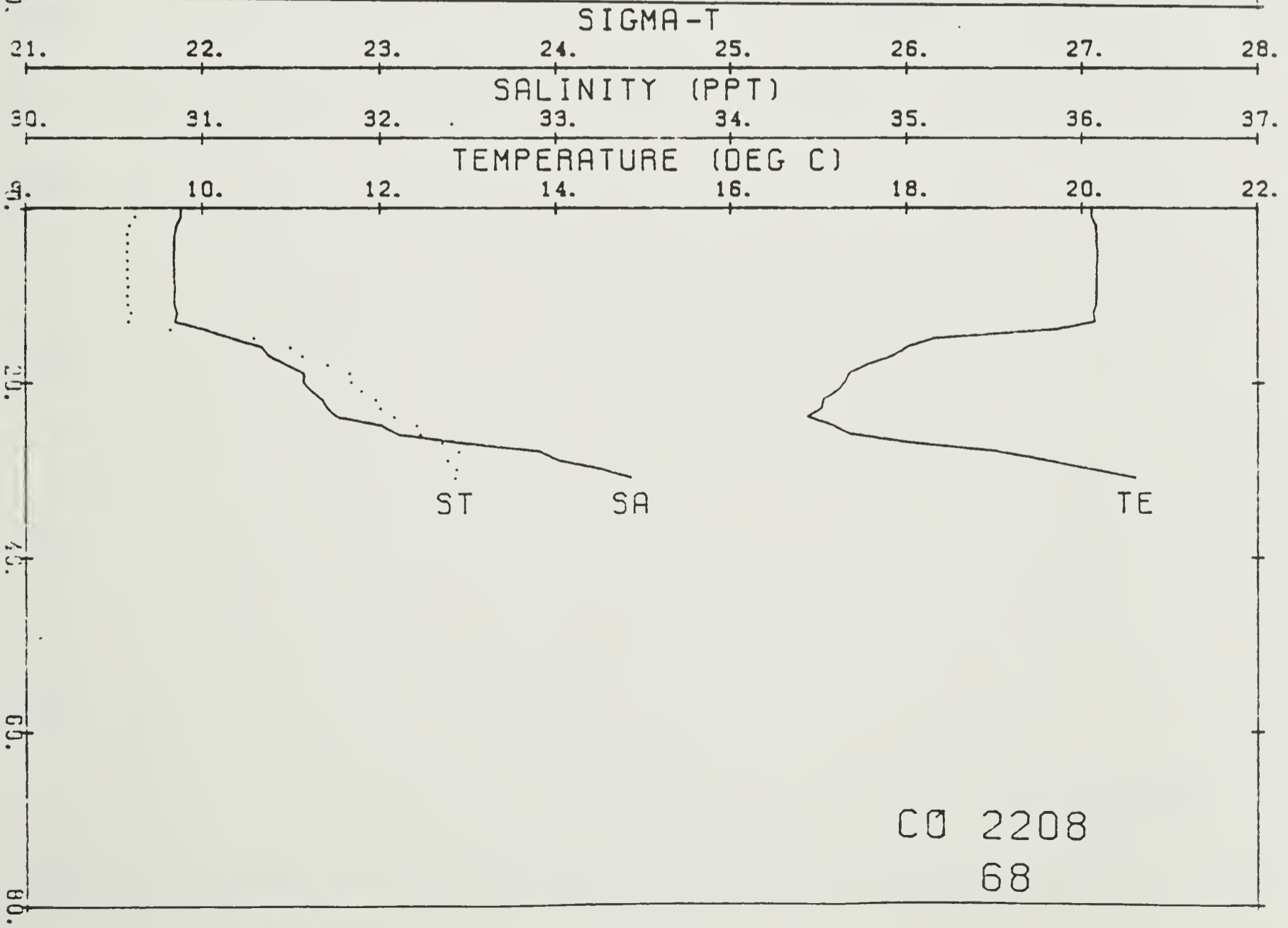
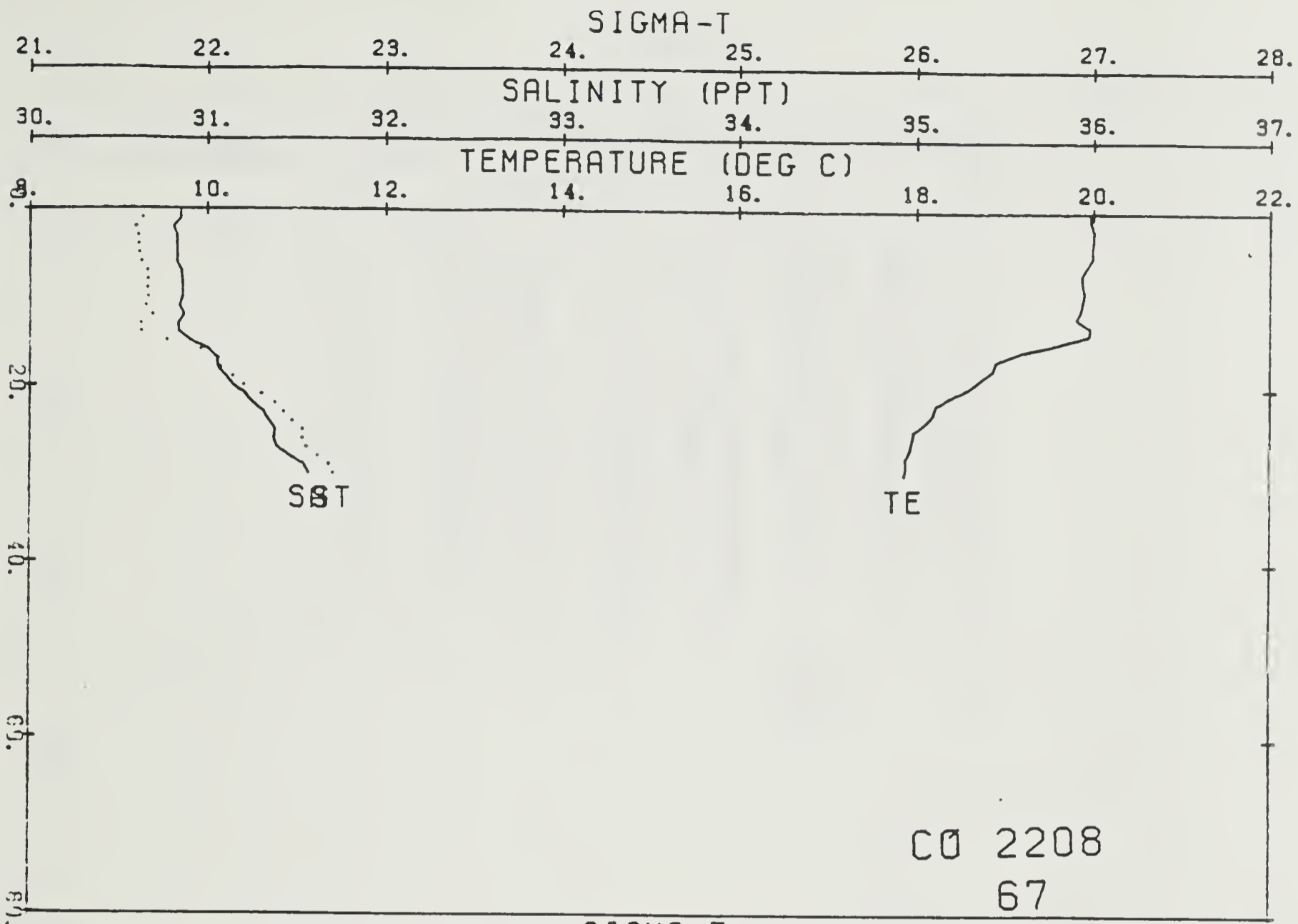
SHIP CO CRUISE 22-08 STATION 67 POSITION 35 25.00 N 75 8.50 W
 LOCAL TIME 1959 DATE 79/ 6/26 WIND = DIR = DEPTH= 30M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	19.960	30.850	21.611	618.4	.000	1517.2	.0
5	19.989	30.832	21.590	620.6	.031	1517.3	5.0
10	19.874	30.862	21.642	615.7	.062	1517.1	10.0
15	19.581	30.905	21.750	605.6	.092	1516.4	14.9
20	18.593	31.146	22.180	564.5	.121	1514.0	19.9
25	17.964	31.380	22.511	532.9	.149	1512.5	24.9
30	17.860	31.570	22.682	516.8	.175	1512.5	29.9
30	17.860	31.570	22.682	516.8	.175	1512.5	29.9

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AM
4		30.821	5.54					
9		30.827	5.56					
14		30.882	5.47					
19		31.087	5.24					
24		31.328	5.05					
29		32.130	4.93					

SHIP CO CRUISE 22-08 STATION 68 POSITION 35 24.00 N 75 4.50 W
 LOCAL TIME 2140 DATE 79/ 6/26 WIND = DIR = DEPTH= 31M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	20.113	30.881	21.595	619.9	.000	1517.6	.0
5	20.178	30.839	21.546	624.7	.031	1517.9	5.0
10	20.169	30.842	21.551	624.5	.062	1517.9	10.0
15	18.303	31.162	22.263	556.4	.091	1513.1	14.9
20	17.302	31.567	22.812	504.1	.118	1510.7	19.9
25	17.163	32.009	23.183	468.7	.142	1510.8	24.9
30	20.083	33.261	23.415	446.8	.165	1520.8	29.9
31	20.606	33.431	23.407	447.7	.170	1522.4	30.9



SHIP CO CRUISE 22-08 STATION 69 POSITION 35 18.42 N 74 58.98 W
 LOCAL TIME 2331 DATE 79/ 6/26 WIND = DIR = DEPTH= 78M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	26.984	36.366	23.754	413.5	.000	1540.9	.0
5	26.989	36.363	23.750	414.1	.021	1541.0	5.0
10	26.999	36.364	23.748	414.5	.041	1541.1	10.0
15	27.009	36.363	23.744	415.1	.062	1541.2	14.9
20	27.014	36.363	23.743	415.4	.083	1541.3	19.9
25	27.006	36.364	23.746	415.3	.103	1541.3	24.9
30	26.939	36.352	23.758	414.4	.124	1541.2	29.9
35	26.606	36.311	23.833	407.4	.145	1540.5	34.9
40	26.072	36.320	24.009	390.8	.165	1539.4	39.9
45	24.090	36.166	24.499	344.2	.183	1534.7	44.9
50	23.375	36.145	24.695	325.8	.200	1533.0	49.9
55	22.369	36.144	24.985	298.3	.215	1530.6	54.9
60	19.980	36.105	25.611	238.8	.229	1524.4	59.9
65	18.572	35.933	25.845	216.7	.240	1520.3	64.9
70	17.555	35.782	25.982	203.7	.251	1517.3	69.9
75	17.554	35.794	25.991	203.0	.261	1517.4	74.9
78	17.508	35.798	26.005	201.7	.267	1517.3	77.9

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AM
0		36.353						
72		35.795						
76		35.802						

SIGMA-T

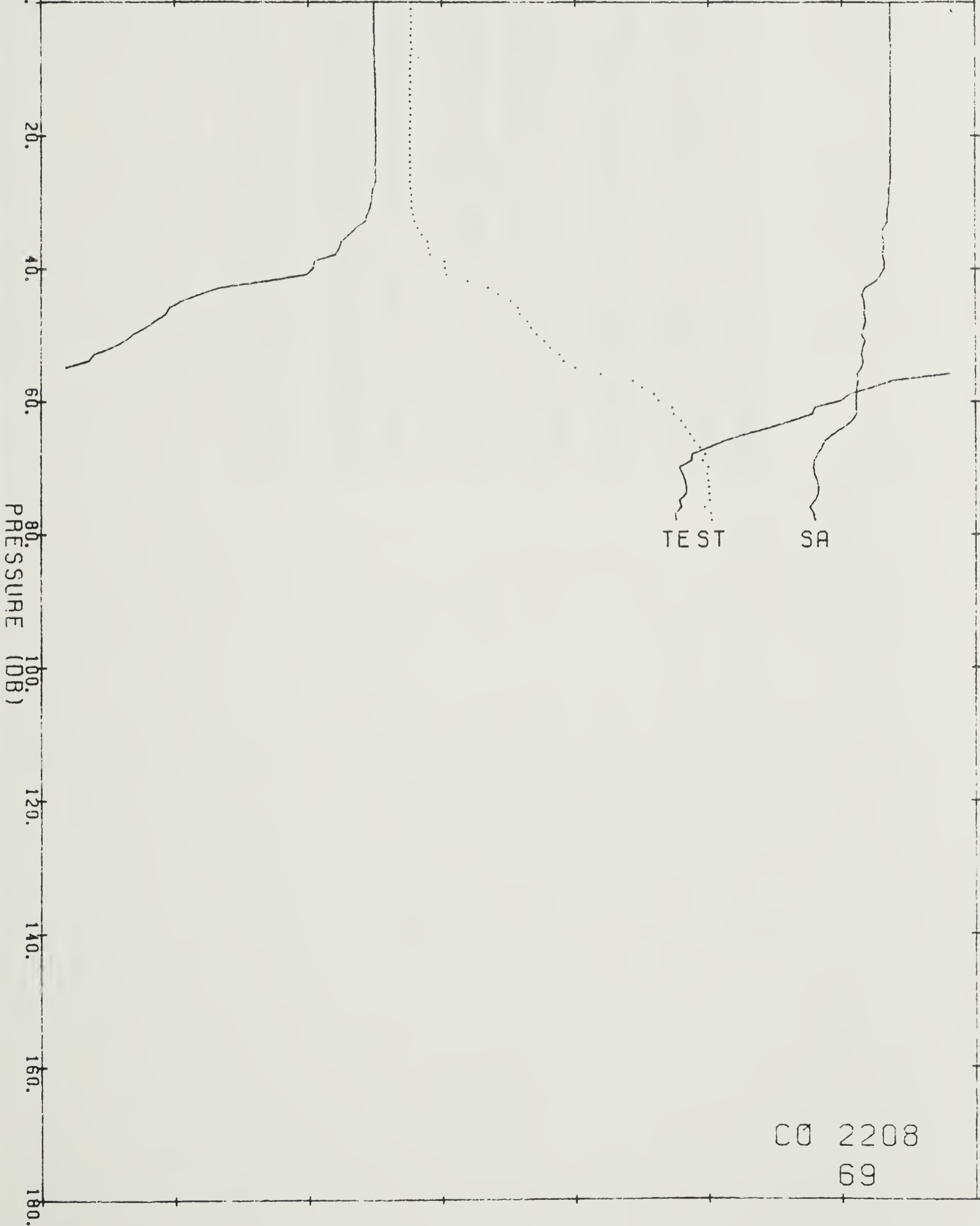
21. 22. 23. 24. 25. 26. 27. 28.

SALINITY (PPT)

30. 31. 32. 33. 34. 35. 36. 37.

TEMPERATURE (DEG C)

8. 10. 12. 14. 16. 18. 20. 22.



CO 2208

69

SHIP CO CRUISE 22-08 STATION 70 POSITION 35 17.73 N 74 58.09 W
 LOCAL TIME 210 DATE 79/ 6/27 WIND = DIR = DEPTH= 136M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	26.340	36.358	23.953	394.5	.000	1539.4	.0
5	26.367	36.344	23.934	396.5	.020	1539.6	5.0
10	26.380	36.343	23.929	397.2	.040	1539.7	10.0
15	26.406	36.332	23.913	399.0	.059	1539.8	14.9
20	26.413	36.327	23.907	399.8	.079	1539.9	19.9
25	26.387	36.316	23.907	400.0	.099	1539.9	24.9
30	26.187	36.276	23.940	397.0	.119	1539.5	29.9
35	25.660	36.235	24.074	384.4	.139	1538.3	34.9
40	25.288	36.255	24.204	372.2	.158	1537.6	39.9
45	24.884	36.391	24.430	350.8	.176	1536.8	44.9
50	24.740	36.444	24.514	343.1	.193	1536.7	49.9
55	24.066	36.319	24.622	332.9	.210	1535.0	54.9
60	23.037	36.219	24.849	311.4	.226	1532.4	59.9
65	22.086	36.204	25.110	286.7	.241	1530.1	64.9
70	20.692	36.159	25.462	253.4	.254	1526.5	69.9
75	19.709	36.138	25.708	230.1	.267	1523.9	74.9
80	18.664	36.009	25.880	213.9	.278	1520.9	79.9
85	16.267	35.492	26.065	196.1	.288	1513.3	84.9
90	13.766	34.917	26.173	185.7	.297	1504.8	89.9
95	13.299	34.835	26.205	182.7	.307	1503.2	94.9
100	13.040	34.874	26.288	175.0	.317	1502.5	100.9
105	12.742	34.778	26.273	176.5	.326	1501.4	105.9
110	13.177	35.030	26.381	166.4	.335	1503.3	110.9
115	13.034	35.062	26.435	161.5	.343	1502.9	115.9
120	13.646	35.305	26.498	155.8	.351	1505.4	120.9
125	13.765	35.359	26.515	154.3	.359	1505.9	125.9
130	13.726	35.351	26.517	154.3	.366	1505.8	130.9
135	13.670	35.330	26.512	154.8	.374	1505.7	135.9
136	13.664	35.340	26.521	154.0	.375	1505.7	136.8

SIGMA-T

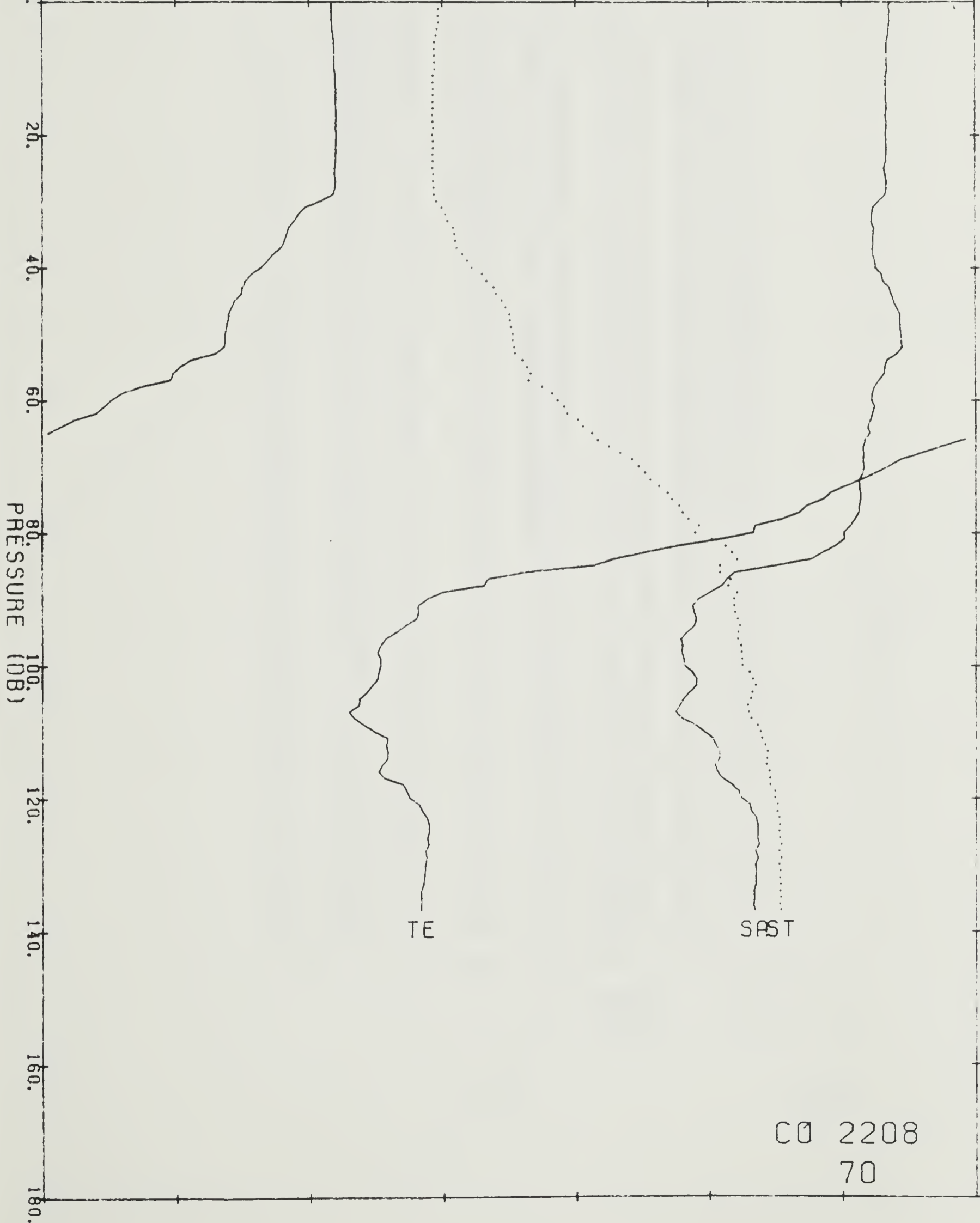
21. 22. 23. 24. 25. 26. 27. 28.

SALINITY (PPT)

30. 31. 32. 33. 34. 35. 36. 37.

TEMPERATURE (DEG C)

8. 10. 12. 14. 16. 18. 20. 22.



C0 2208

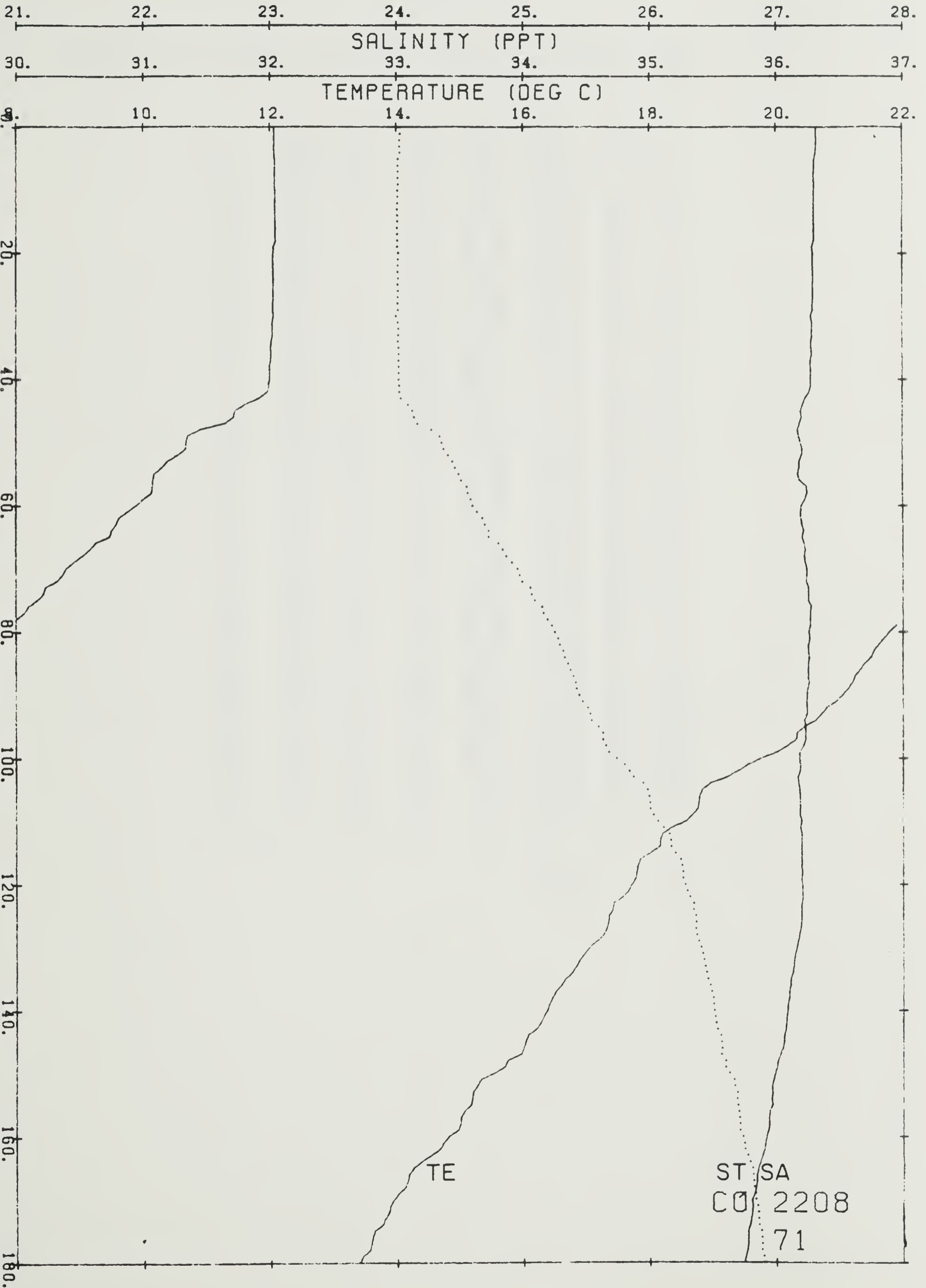
70

SHIP CO CRUISE 22-08 STATION 71 POSITION 35 15.75 N 74 56.01 W
 LOCAL TIME 337 DATE 79/ 6/27 WIND = DIR = DEPTH= 889M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	26.064	36.321	24.012	388.9	.000	1538.8	.0
5	26.074	36.306	23.998	390.5	.020	1538.8	5.0
10	26.079	36.300	23.992	391.3	.039	1538.9	10.0
15	26.084	36.301	23.991	391.5	.058	1539.0	14.9
20	26.044	36.291	23.996	391.2	.078	1539.0	19.9
25	26.050	36.291	23.994	391.6	.097	1539.1	24.9
30	26.057	36.276	23.980	393.1	.117	1539.2	29.9
35	26.011	36.282	24.000	391.5	.137	1539.2	34.9
40	25.992	36.274	23.999	391.7	.156	1539.2	39.9
45	25.439	36.193	24.110	381.3	.176	1537.9	44.9
50	24.673	36.191	24.343	359.3	.194	1536.2	49.9
55	24.171	36.168	24.477	346.8	.212	1535.1	54.9
60	23.886	36.200	24.586	336.6	.229	1534.5	59.9
65	23.472	36.205	24.712	324.7	.245	1533.6	64.9
70	22.787	36.242	24.939	303.3	.261	1532.0	69.9
75	22.332	36.253	25.078	290.2	.276	1531.0	74.9
80	21.784	36.257	25.236	275.4	.290	1529.6	79.9
85	21.396	36.254	25.341	265.5	.304	1528.7	84.9
90	21.044	36.245	25.431	257.1	.317	1527.9	89.9
95	20.446	36.232	25.584	242.7	.329	1526.3	94.9
100	19.768	36.182	25.726	229.3	.341	1524.5	99.9
105	18.791	36.188	25.984	204.9	.354	1521.9	105.9
110	18.346	36.191	26.099	194.1	.364	1520.7	110.9
115	17.850	36.201	26.231	181.7	.373	1519.4	115.9
120	17.663	36.208	26.282	177.0	.382	1518.9	120.9
125	17.342	36.198	26.353	170.4	.391	1518.1	125.9
130	16.971	36.148	26.404	165.6	.399	1517.0	130.9
135	16.600	36.110	26.463	160.1	.407	1515.9	135.9
140	16.320	36.079	26.505	156.3	.415	1515.1	140.9
145	15.998	36.047	26.555	151.6	.423	1514.2	145.9
150	15.321	35.975	26.653	142.3	.430	1512.1	150.9
155	15.063	35.945	26.688	139.1	.437	1511.3	155.9
160	14.733	35.907	26.731	135.1	.444	1510.3	160.9
165	14.183	35.843	26.801	128.5	.451	1508.5	165.9
170	13.886	35.809	26.837	125.1	.457	1507.6	170.9
175	13.604	35.774	26.869	122.1	.463	1506.7	175.9
180	13.381	35.744	26.892	120.0	.469	1506.0	180.9
185	13.171	35.710	26.909	118.5	.475	1505.4	185.9
190	12.960	35.687	26.934	116.2	.481	1504.7	190.9
195	12.832	35.665	26.943	115.4	.487	1504.3	195.9
200	12.702	35.650	26.957	114.2	.493	1504.0	200.9
225	11.786	35.528	27.041	106.6	.520	1501.1	225.9
250	10.589	35.374	27.141	97.1	.547	1497.1	251.9
275	9.403	35.240	27.241	87.7	.570	1493.0	276.9
300	9.369	35.238	27.245	87.8	.592	1493.3	301.9
325	8.800	35.197	27.305	82.3	.613	1491.5	326.9
350	8.417	35.161	27.337	79.5	.633	1490.5	351.9
375	7.301	35.090	27.448	68.7	.653	1486.5	377.9
400	7.127	35.087	27.470	66.8	.670	1486.2	402.9
425	6.362	35.048	27.544	59.6	.685	1483.6	427.9
450	6.116	35.040	27.570	57.3	.700	1483.0	452.9
475	5.837	35.025	27.593	55.1	.714	1482.3	477.9
500	5.491	35.014	27.628	51.8	.728	1481.3	503.9
600	4.763	34.996	27.700	45.4	.777	1479.9	604.9
700	4.570	34.995	27.721	44.2	.822	1480.8	705.9
800	4.416	34.990	27.734	43.8	.867	1481.8	806.9
889	4.260	34.990	27.751	42.8	.906	1482.6	896.9

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AM
27		36.265						
195		34.997						
887		35.039						

SIGMA-T



SHIP CO CRUISE 22-08 STATION 72 POSITION 35 16.48 N 74 57.25 W
 LOCAL TIME 613 DATE 79/ 6/27 WIND = DIR = DEPTH= 288M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	25.853	36.300	24.062	384.1	.000	1538.3	.0
5	25.879	36.298	24.053	385.2	.019	1538.4	5.0
10	25.872	36.292	24.050	385.6	.039	1538.5	10.0
15	25.872	36.287	24.047	386.2	.057	1538.5	14.9
20	25.870	36.285	24.046	386.5	.077	1538.6	19.9
25	25.866	36.284	24.046	386.6	.096	1538.7	24.9
30	25.808	36.277	24.059	385.6	.115	1538.6	29.9
35	25.444	36.269	24.166	375.6	.134	1537.9	34.9
40	24.899	36.279	24.341	359.2	.153	1536.7	39.9
45	24.847	36.325	24.392	354.5	.171	1536.7	44.9
50	24.501	36.287	24.468	347.5	.188	1535.9	49.9
55	24.240	36.260	24.526	342.1	.205	1535.3	54.9
60	23.840	36.249	24.637	331.7	.222	1534.4	59.9
65	23.442	36.221	24.733	322.7	.239	1533.5	64.9
70	23.160	36.228	24.820	314.6	.255	1532.9	69.9
75	22.108	36.232	25.125	285.7	.270	1530.4	74.9
80	21.180	36.211	25.368	262.7	.283	1528.0	79.9
85	20.080	36.195	25.654	235.7	.296	1525.1	84.9
90	19.482	36.186	25.804	221.5	.307	1523.6	89.9
95	18.832	36.179	25.967	206.1	.318	1521.8	94.9
100	18.302	36.130	26.064	197.1	.330	1520.4	100.9
105	17.829	36.038	26.111	192.7	.340	1519.0	105.9
110	16.693	35.905	26.283	176.4	.349	1515.5	110.9
115	15.848	35.738	26.351	169.9	.358	1512.8	115.9
120	15.777	35.726	26.358	169.4	.366	1512.7	120.9
125	14.627	35.483	26.427	162.8	.374	1508.8	125.9
130	14.667	35.584	26.496	156.4	.382	1509.2	130.9
135	15.273	35.859	26.575	149.3	.390	1511.5	135.9
140	15.024	35.816	26.597	147.2	.397	1510.8	140.9
145	14.795	35.816	26.647	142.6	.405	1510.1	145.9
150	14.556	35.764	26.659	141.5	.412	1509.4	150.9
155	14.325	35.729	26.682	139.4	.419	1508.7	155.9
160	14.288	35.780	26.730	135.1	.426	1508.7	160.9
165	14.054	35.794	26.790	129.4	.432	1508.0	165.9
170	13.714	35.767	26.841	124.7	.439	1507.0	170.9
175	13.430	35.749	26.886	120.4	.445	1506.1	175.9
180	13.336	35.728	26.889	120.3	.451	1505.8	180.9
185	13.130	35.693	26.904	118.9	.457	1505.2	185.9
190	12.859	35.671	26.942	115.4	.463	1504.3	190.9
195	12.660	35.635	26.954	114.3	.468	1503.7	195.9
200	12.603	35.633	26.964	113.5	.474	1503.6	200.9
225	11.683	35.529	27.061	104.6	.501	1500.7	225.9
250	10.532	35.374	27.152	96.2	.527	1496.9	251.9
275	9.840	35.297	27.212	90.7	.551	1494.7	276.9
288	9.676	35.283	27.229	89.3	.562	1494.3	289.9

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AM
4		36.299						
112		36.027						
285		35.301						

SIGMA-T

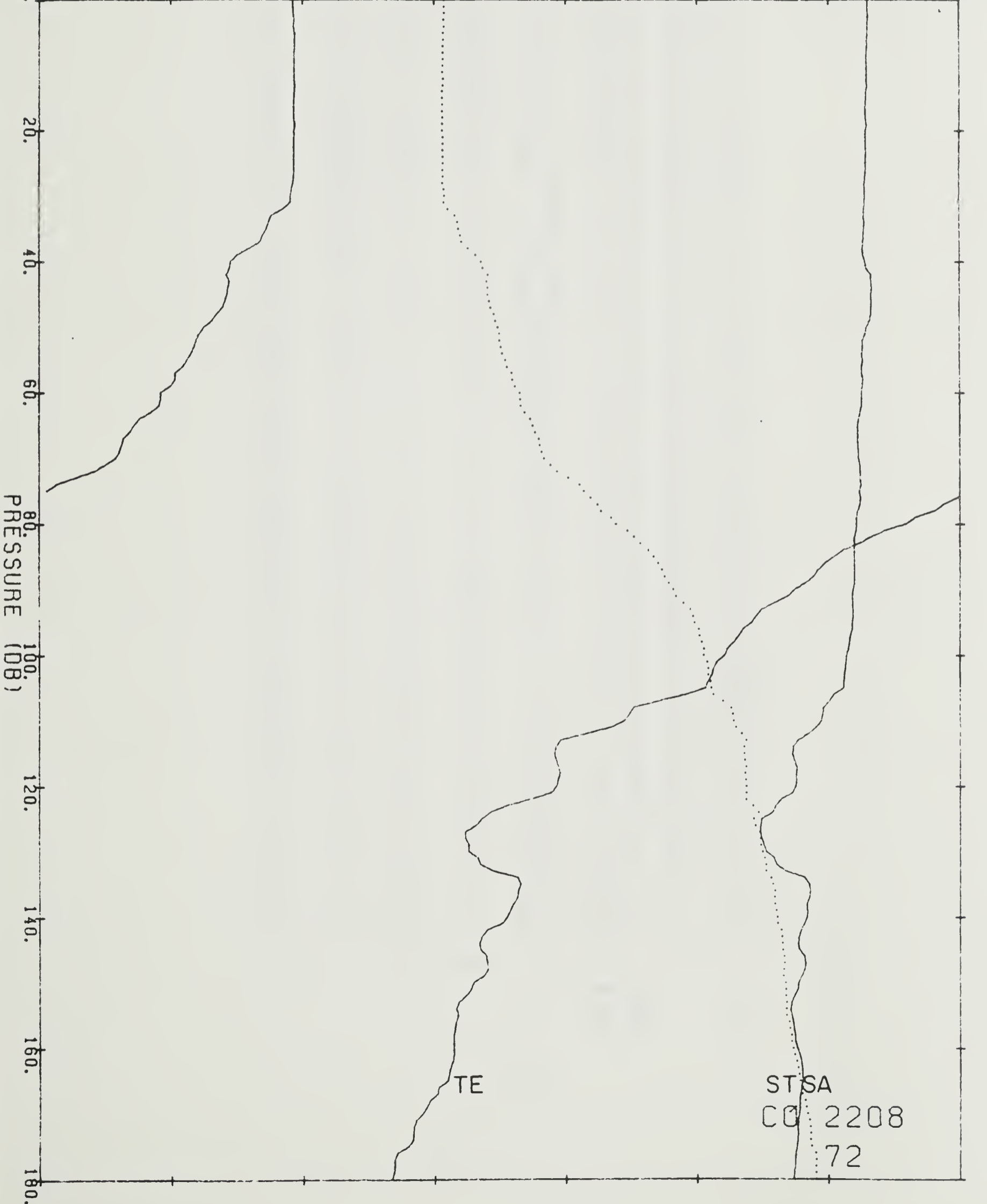
21. 22. 23. 24. 25. 26. 27. 28.

SALINITY (PPT)

30. 31. 32. 33. 34. 35. 36. 37.

TEMPERATURE (DEG C)

8. 10. 12. 14. 16. 18. 20. 22.



SHIP CO CRUISE 22-08 STATION 73 POSITION 35 15.93 N 74 55.42 W
 LOCAL TIME 923 DATE 79/ 6/27 WIND = DIR = DEPTH= 909M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS	
0	26.876	36.395	23.811	408.1	0.000	1540.7	0.0	
9	26.869	36.393	23.812	408.4	.039	1540.8	9.5	
15	26.852	36.391	23.815	408.3	.063	1540.9	15.5	
21	26.736	36.377	23.842	406.0	.088	1540.7	21.5	
27	26.449	36.341	23.906	400.1	.112	1540.1	27.5	
33	26.195	36.306	23.960	395.3	.136	1539.6	33.5	
39	25.815	36.253	24.039	387.9	.159	1538.8	39.5	
45	25.522	36.224	24.108	381.6	.182	1538.2	45.5	
51	24.956	36.201	24.264	366.9	.205	1536.9	51.5	
57	24.236	36.198	24.480	346.6	.226	1535.3	57.5	
63	23.673	36.231	24.672	328.5	.246	1534.1	63.5	
69	23.161	36.270	24.852	311.6	.266	1533.0	69.5	
75	22.463	36.274	25.056	292.3	.284	1531.3	75.5	
81	21.705	36.249	25.252	273.9	.301	1529.4	81.5	
87	20.904	36.229	25.457	254.5	.317	1527.4	87.5	
93	20.030	36.221	25.687	232.8	.331	1525.2	93.5	
99	19.322	36.222	25.874	215.2	.345	1523.3	99.5	
105	18.691	36.222	26.035	200.0	.357	1521.7	105.5	
111	18.215	36.225	26.159	188.4	.369	1520.4	111.5	
117	17.797	36.232	26.267	178.3	.380	1519.3	117.5	
123	17.374	36.209	26.353	170.2	.390	1518.1	123.5	
129	16.929	36.170	26.431	163.0	.400	1516.9	129.5	
135	16.637	36.136	26.474	159.1	.410	1516.0	135.5	
141	16.423	36.107	26.502	156.6	.419	1515.5	141.5	
147	16.158	36.079	26.542	152.9	.429	1514.7	147.5	
153	15.795	36.045	26.600	147.5	.438	1513.7	153.5	
159	15.391	36.005	26.661	141.8	.446	1512.5	159.5	
165	15.024	35.964	26.711	137.2	.455	1511.3	165.5	
171	14.526	35.901	26.771	131.5	.463	1509.8	171.5	
177	13.984	35.834	26.836	125.4	.470	1508.0	177.5	
183	13.558	35.779	26.883	121.0	.478	1506.7	183.5	
189	13.179	35.729	26.922	117.3	.485	1505.5	189.5	
194	12.940	35.698	26.947	115.1	.492	1504.7	195.5	
200	12.636	35.654	26.974	112.6	.499	1503.7	201.5	
206	12.298	35.604	27.001	110.0	.505	1502.6	207.5	
212	12.022	35.560	27.021	108.2	.512	1501.7	213.5	
218	11.698	35.518	27.050	105.5	.518	1500.7	219.5	
224	11.480	35.492	27.070	103.6	.525	1500.0	225.5	
230	11.356	35.478	27.083	102.6	.531	1499.6	231.5	
236	11.110	35.444	27.102	100.8	.537	1498.8	237.5	
242	10.608	35.382	27.144	96.7	.543	1497.0	243.5	
248	10.278	35.332	27.164	94.8	.549	1495.9	249.5	
254	10.167	35.319	27.173	94.0	.554	1495.6	255.5	
275	9.720	35.290	27.226	89.2	.574	1494.2	276.6	
300	9.190	35.239	27.275	84.9	.596	1492.6	301.8	
325	8.646	35.172	27.310	81.7	.617	1490.9	327.0	
350	8.304	35.164	27.357	77.5	.637	1490.0	352.2	
375	7.559	35.116	27.431	70.5	.655	1487.5	377.4	
400	7.417	35.108	27.445	69.4	.673	1487.4	402.7	
425	6.508	35.067	27.539	60.1	.689	1484.2	427.9	
450	6.092	35.047	27.578	56.5	.704	1482.9	453.1	
475	6.024	35.047	27.587	55.9	.718	1483.0	478.3	
500	5.882	35.040	27.600	54.9	.732	1482.9	503.5	
600	5.036	35.009	27.679	47.7	.784	1481.1	604.5	
700	4.547	34.999	27.727	43.6	.830	1480.7	705.5	
800	4.348	34.998	27.747	42.4	.873	1481.5	806.6	
900	4.191	34.995	27.762	41.7	.916	1482.5	907.7	
909	4.191	34.995	27.762	41.7	.920	1482.7	917.0	
DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AM
3		36.345						
111		36.209						
865		35.121						

SIGMA-T

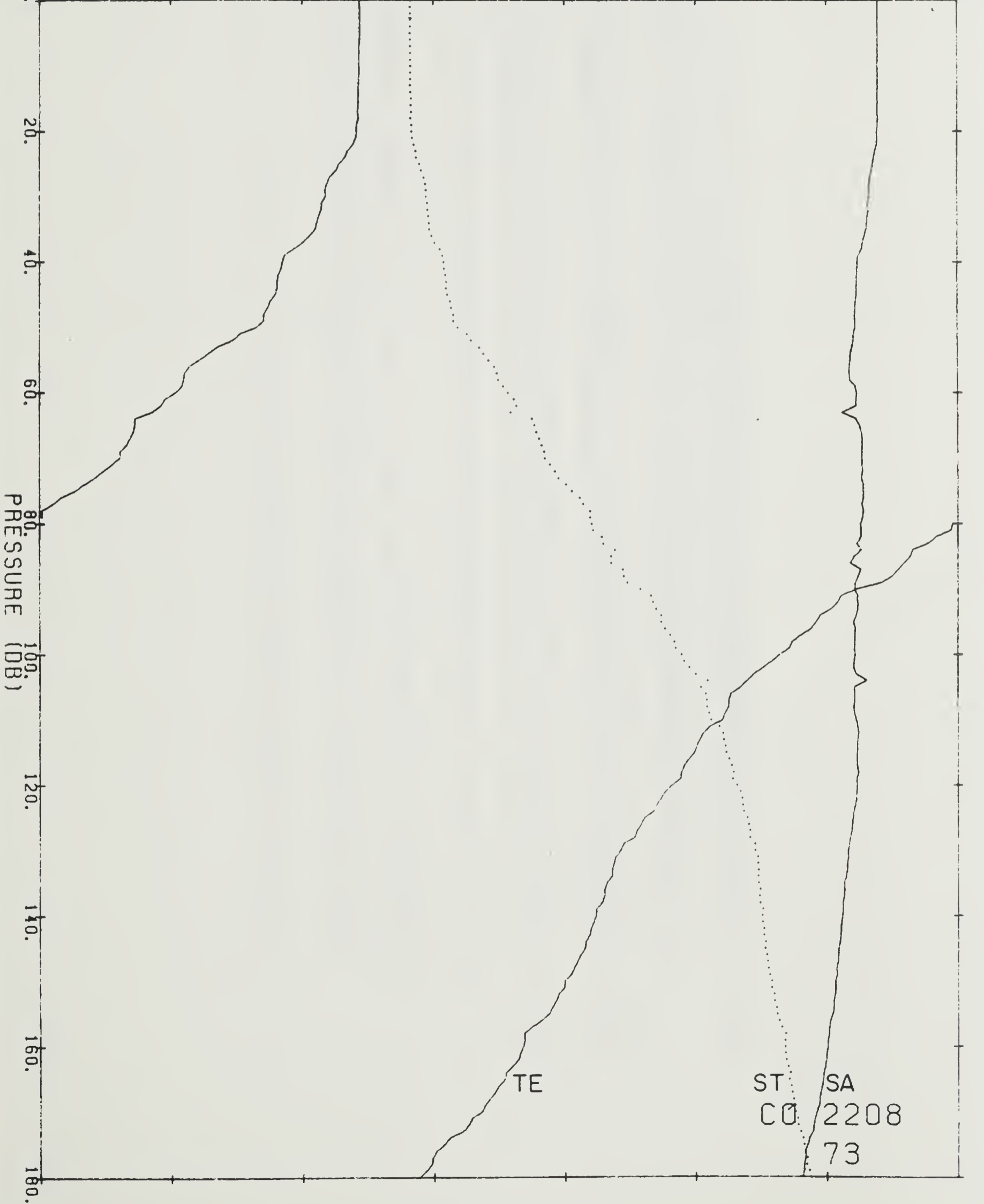
21. 22. 23. 24. 25. 26. 27. 28.

SALINITY (PPT)

30. 31. 32. 33. 34. 35. 36. 37.

TEMPERATURE (DEG C)

8. 10. 12. 14. 16. 18. 20. 22.



SHIP CO CRUISE 22-08 STATION 74 POSITION 34 14.60 N 74 53.90 W
 LOCAL TIME 1341 DATE 79/ 6/27 WIND = DIR = DEPTH=1157M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS	
0	27.020	36.424	23.787	410.4	.000	1541.0	.0	
5	27.055	36.411	23.765	412.6	.021	1541.2	5.0	
10	27.069	36.401	23.753	414.0	.041	1541.3	10.0	
15	27.060	36.406	23.760	413.6	.062	1541.3	14.9	
20	27.013	36.398	23.769	412.9	.082	1541.3	19.9	
25	27.015	36.397	23.768	413.2	.103	1541.4	24.9	
30	27.017	36.396	23.766	413.6	.124	1541.5	29.9	
35	26.981	36.388	23.772	413.3	.144	1541.5	34.9	
40	27.008	36.395	23.768	413.8	.165	1541.6	39.9	
45	26.889	36.359	23.780	412.9	.186	1541.4	44.9	
50	25.796	36.231	24.028	389.4	.206	1538.9	49.9	
55	25.059	36.195	24.229	370.5	.225	1537.2	54.9	
60	24.514	36.212	24.407	353.6	.243	1536.0	59.9	
65	23.609	36.149	24.629	332.6	.260	1533.8	64.9	
70	23.406	36.176	24.709	325.2	.276	1533.5	69.9	
75	22.953	36.171	24.837	313.2	.292	1532.4	74.9	
80	22.779	36.172	24.888	308.5	.308	1532.1	79.9	
85	21.998	36.180	25.117	286.9	.323	1530.2	84.9	
90	21.546	36.168	25.234	275.8	.337	1529.1	89.9	
95	20.456	36.280	25.618	239.5	.350	1526.4	94.9	
100	20.219	36.298	25.695	232.3	.361	1525.9	99.9	
105	19.727	36.282	25.813	221.2	.373	1524.6	104.9	
110	19.391	36.290	25.908	212.4	.386	1523.8	110.9	
115	18.877	36.231	25.995	204.2	.396	1522.4	115.9	
120	18.189	36.110	26.077	196.5	.406	1520.3	120.9	
125	17.639	36.103	26.207	184.2	.416	1518.8	125.9	
130	17.424	36.183	26.321	173.5	.425	1518.4	130.9	
135	17.115	36.157	26.376	168.5	.433	1517.5	135.9	
140	16.761	36.122	26.434	163.1	.442	1516.5	140.9	
145	16.567	36.102	26.464	160.3	.450	1516.0	145.9	
150	16.231	36.072	26.520	155.1	.458	1515.0	150.9	
155	15.936	36.049	26.570	150.4	.465	1514.1	155.9	
160	15.663	36.032	26.620	145.8	.473	1513.4	160.9	
165	15.377	35.988	26.651	143.0	.480	1512.5	165.9	
170	15.183	35.962	26.674	140.9	.487	1511.9	170.9	
175	14.687	35.880	26.720	136.5	.494	1510.3	175.9	
180	14.340	35.841	26.765	132.3	.501	1509.3	180.9	
185	14.195	35.833	26.790	130.0	.507	1508.9	185.9	
190	14.101	35.822	26.802	129.1	.514	1508.6	190.9	
195	14.035	35.812	26.808	128.6	.520	1508.5	195.9	
200	13.881	35.802	26.833	126.3	.526	1508.1	200.9	
225	12.523	35.632	26.979	112.7	.556	1503.7	225.9	
250	11.244	35.445	27.078	103.4	.583	1499.5	250.9	
275	9.890	35.266	27.179	93.8	.609	1494.8	276.9	
300	9.426	35.241	27.238	88.5	.632	1493.5	301.9	
325	8.862	35.158	27.264	86.1	.654	1491.7	326.9	
350	7.849	35.038	27.327	80.0	.674	1488.1	351.9	
375	8.005	35.125	27.372	76.4	.694	1489.2	376.9	
400	7.488	35.097	27.426	71.3	.713	1487.6	402.9	
425	6.557	35.059	27.526	61.4	.730	1484.4	427.9	
450	6.252	35.047	27.557	58.5	.745	1483.5	452.9	
475	5.962	35.027	27.579	56.6	.759	1482.8	477.9	
500	5.767	35.043	27.617	53.2	.773	1482.4	503.9	
600	4.917	34.989	27.676	47.7	.824	1480.5	604.9	
700	4.585	34.995	27.719	44.4	.870	1480.8	704.9	
800	4.430	34.995	27.736	43.6	.915	1481.9	806.9	
900	4.261	34.990	27.751	42.9	.959	1482.8	907.9	
1000	4.110	34.985	27.763	42.4	1.002	1483.8	1008.9	
1100	3.921	34.983	27.781	41.2	1.044	1484.7	1109.9	
1157	3.899	34.977	27.779	41.9	1.068	1485.6	1167.9	
DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AM
28		36.381	4.99					
79		36.157	4.27					
117		36.186	3.85					
1156		35.234	5.75					

SIGMA-T

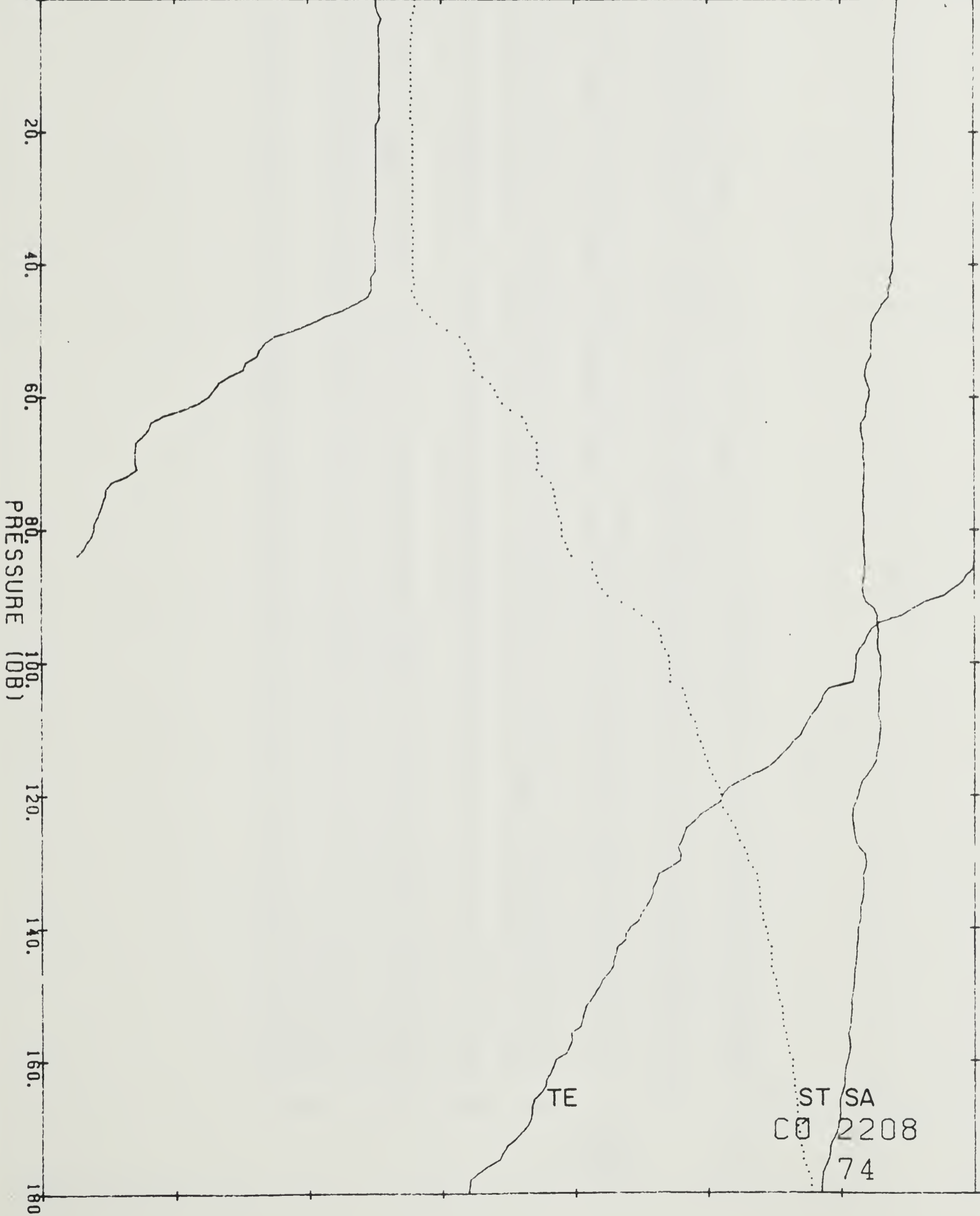
21. 22. 23. 24. 25. 26. 27. 28.

SALINITY (PPT)

30. 31. 32. 33. 34. 35. 36. 37.

TEMPERATURE (DEG C)

8. 10. 12. 14. 16. 18. 20. 22.



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SHIP CO CRUISE 22-08 STATION 75 POSITION 35 14.57 N 74 51.63 W
 LOCAL TIME 1729 DATE 79/ 6/27 WIND = DIR = DEPTH=2223M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	27.030	36.440	23.795	409.6	.000	1541.1	.0
5	27.064	36.383	23.742	414.9	.021	1541.1	5.0
10	27.081	36.373	23.729	416.4	.041	1541.3	10.0
15	27.080	36.374	23.730	416.5	.062	1541.3	14.9
20	27.078	36.374	23.730	416.6	.083	1541.4	19.9
25	27.087	36.373	23.727	417.2	.104	1541.5	24.9
30	27.048	36.365	23.733	416.7	.124	1541.5	29.9
35	27.036	36.361	23.734	416.9	.145	1541.6	34.9
40	26.644	36.296	23.810	409.8	.166	1540.7	39.9
45	26.175	36.228	23.907	400.7	.186	1539.6	44.9
50	25.917	36.216	23.979	394.1	.206	1539.1	49.9
55	25.432	36.174	24.098	382.9	.225	1538.0	54.9
60	24.829	36.230	24.325	361.5	.244	1536.8	59.9
65	24.499	36.290	24.470	347.8	.262	1536.2	64.9
70	23.707	36.398	24.789	317.6	.278	1534.5	69.9
75	23.339	36.533	25.000	297.8	.294	1533.8	74.9
80	23.029	36.581	25.127	285.8	.308	1533.2	79.9
85	21.751	36.497	25.427	257.3	.322	1529.9	84.9
90	21.344	36.484	25.531	247.6	.335	1528.9	89.9
95	21.045	36.474	25.606	240.7	.347	1528.2	94.9
100	20.555	36.414	25.693	232.5	.359	1526.9	99.9
105	20.110	36.340	25.756	226.7	.372	1525.7	105.9
110	19.864	36.361	25.838	219.1	.384	1525.2	110.9
115	19.480	36.327	25.913	212.1	.394	1524.2	115.9
120	19.190	36.326	25.987	205.2	.405	1523.4	120.9
125	19.054	36.320	26.018	202.4	.415	1523.1	125.9
130	18.878	36.310	26.055	199.0	.425	1522.7	130.9
135	18.581	36.290	26.116	193.4	.435	1521.9	135.9
140	18.256	36.273	26.185	187.0	.444	1521.1	140.9
145	18.136	36.263	26.207	185.0	.454	1520.8	145.9
150	17.751	36.228	26.276	178.6	.463	1519.7	150.9
155	17.295	36.174	26.346	172.0	.471	1518.4	155.9
160	17.069	36.149	26.381	168.8	.480	1517.8	160.9
165	16.950	36.147	26.408	166.4	.488	1517.5	165.9
170	16.777	36.132	26.438	163.7	.497	1517.0	170.9
175	16.617	36.126	26.471	160.6	.505	1516.6	175.9
180	16.398	36.107	26.508	157.2	.513	1516.0	180.9
185	16.282	36.098	26.528	155.5	.521	1515.7	185.9
190	16.023	36.085	26.578	150.8	.528	1515.0	190.9
195	15.131	35.975	26.696	139.6	.535	1512.2	195.9
200	14.605	35.876	26.735	135.8	.542	1510.5	200.9
225	13.861	35.811	26.844	126.0	.575	1508.4	225.9
250	13.005	35.699	26.934	117.8	.606	1505.8	250.9
275	11.976	35.543	27.016	110.2	.635	1502.6	276.9
300	10.977	35.401	27.093	103.1	.662	1499.3	301.9
325	10.086	35.291	27.165	96.3	.687	1496.4	326.9
350	9.287	35.214	27.239	89.3	.710	1493.8	351.9
375	8.188	35.098	27.323	81.1	.731	1489.9	376.9
400	7.610	35.077	27.393	74.5	.751	1488.1	402.9
425	6.921	35.086	27.498	64.4	.769	1485.8	427.9
450	6.444	35.084	27.561	58.4	.784	1484.4	452.9
475	6.124	35.064	27.587	55.9	.798	1483.5	477.9
500	5.509	35.020	27.630	51.6	.812	1481.3	503.9
600	4.835	34.997	27.692	46.2	.862	1480.2	604.9
700	4.559	34.995	27.722	44.1	.907	1480.7	705.9
800	4.412	34.992	27.736	43.6	.952	1481.8	806.9
900	4.320	34.990	27.744	43.6	.996	1483.1	907.9
1000	4.170	34.987	27.758	43.0	1.039	1484.1	1008.9
1100	4.068	34.987	27.769	42.7	1.083	1485.3	1109.9
1200	3.917	34.980	27.779	42.2	1.126	1486.4	1210.9
1300	3.846	34.980	27.786	42.3	1.169	1487.7	1312.9
1400	3.786	34.982	27.794	42.2	1.211	1489.2	1413.9
1500	3.729	34.984	27.802	42.2	1.254	1490.6	1514.9
1600	3.651	34.987	27.812	41.8	1.297	1492.0	1616.9
1700	3.591	34.988	27.819	41.8	1.339	1493.4	1717.9
1800	3.520	34.988	27.826	41.7	1.382	1494.8	1819.9
1900	3.424	34.987	27.834	41.2	1.424	1496.1	1920.9
2000	3.378	34.985	27.837	41.5	1.466	1497.6	2022.9
2100	3.352	34.984	27.839	42.0	1.508	1499.2	2124.9
2200	3.277	34.984	27.846	41.7	1.551	1500.6	2225.9
2223	3.278	34.957	27.825	43.8	1.561	1500.9	2249.9

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AM
30		36.354						
70		36.228						
126		36.497						
2076		35.331						

SIGMA-T

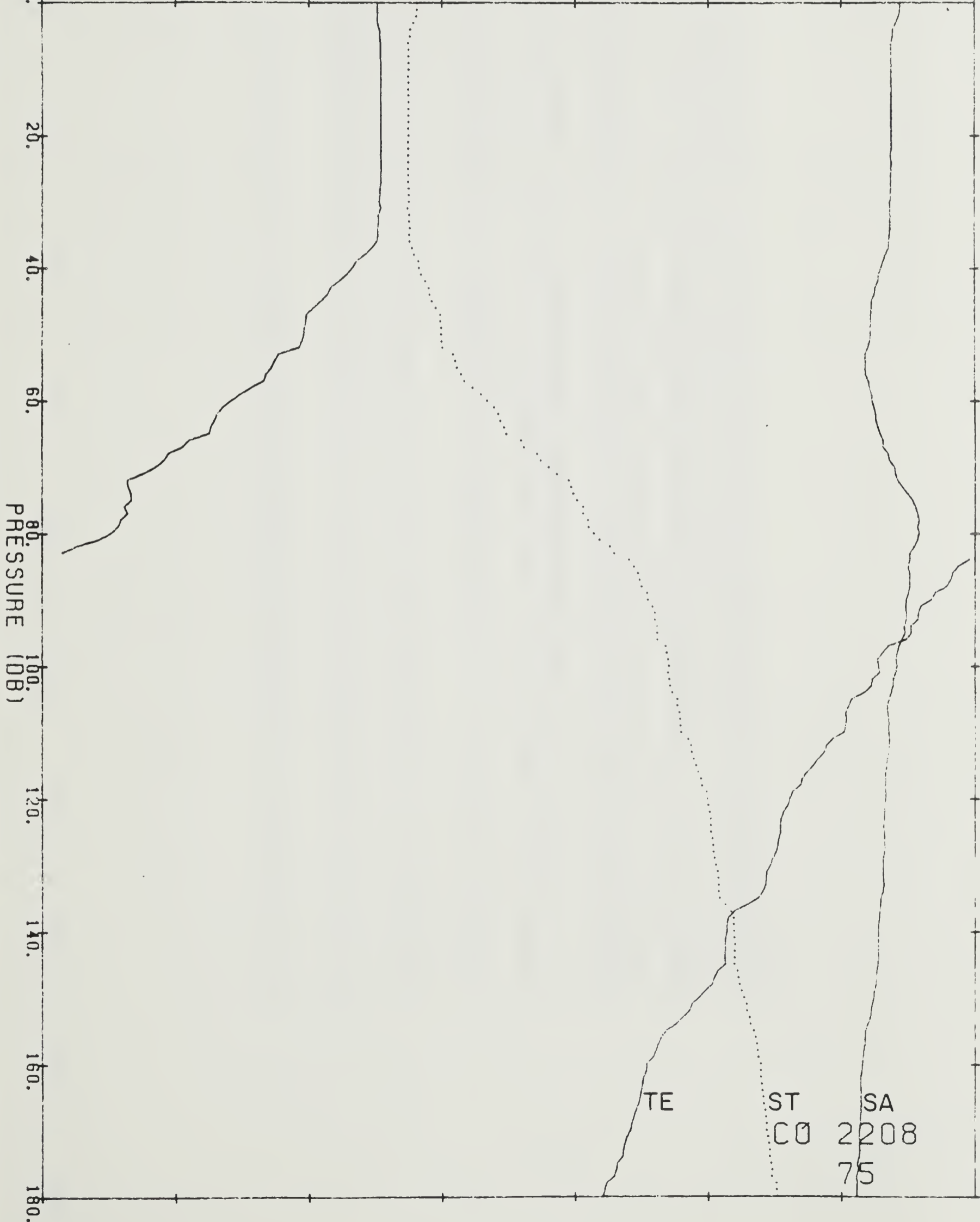
21. 22. 23. 24. 25. 26. 27. 28.

SALINITY (PPT)

30. 31. 32. 33. 34. 35. 36. 37.

TEMPERATURE (DEG C)

9. 10. 12. 14. 16. 18. 20. 22.



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SHIP CO CRUISE 22-08 STATION 76 POSITION 35 13.20 N 74 54.70 W
 LOCAL TIME 2247 DATE 79/ 6/27 WIND = DIR = DEPTH=1335M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	26.580	36.400	23.909	398.7	.000	1540.0	.0
5	26.627	36.375	23.875	402.2	.020	1540.2	5.0
10	26.627	36.368	23.870	402.9	.040	1540.2	10.0
15	26.606	36.370	23.878	402.3	.060	1540.3	14.9
20	26.607	36.364	23.873	403.0	.080	1540.4	19.9
25	26.607	36.365	23.874	403.1	.100	1540.4	24.9
30	26.598	36.364	23.876	403.1	.120	1540.5	29.9
35	26.579	36.356	23.876	403.3	.141	1540.5	34.9
40	26.470	36.351	23.907	400.6	.161	1540.4	39.9
45	25.941	36.233	23.984	393.4	.180	1539.1	44.9
50	25.488	36.220	24.116	381.0	.200	1538.1	49.9
55	25.021	36.205	24.248	368.6	.219	1537.1	54.9
60	24.587	36.170	24.353	358.8	.237	1536.1	59.9
65	23.736	36.175	24.611	334.3	.254	1534.2	64.9
70	23.366	36.197	24.737	322.5	.271	1533.4	69.9
75	22.555	36.201	24.975	300.1	.286	1531.5	74.9
80	21.772	36.219	25.210	277.8	.301	1529.6	79.9
85	21.281	36.263	25.380	261.8	.314	1528.4	84.9
90	21.206	36.420	25.520	248.6	.327	1528.5	89.9
95	20.615	36.301	25.591	242.0	.339	1526.9	94.9
100	20.069	36.271	25.715	230.4	.351	1525.4	99.9
105	19.740	36.255	25.789	223.5	.364	1524.6	105.9
110	19.412	36.285	25.898	213.3	.375	1523.8	110.9
115	19.230	36.317	25.970	206.6	.386	1523.4	115.9
120	18.938	36.295	26.028	201.2	.396	1522.7	120.9
125	18.649	36.270	26.083	196.2	.406	1521.9	125.9
130	18.372	36.238	26.129	192.0	.416	1521.2	130.9
135	18.004	36.214	26.202	185.1	.425	1520.2	135.9
140	17.659	36.171	26.255	180.2	.434	1519.2	140.9
145	17.216	36.141	26.339	172.3	.443	1517.9	145.9
150	17.019	36.140	26.386	168.0	.452	1517.4	150.9
155	16.715	36.111	26.436	163.3	.460	1516.6	155.9
160	16.640	36.103	26.448	162.4	.468	1516.4	160.9
165	16.348	36.064	26.487	158.8	.476	1515.6	165.9
170	15.923	36.027	26.557	152.2	.484	1514.3	170.9
175	15.438	35.972	26.625	145.8	.491	1512.8	175.9
180	15.051	35.941	26.687	139.9	.498	1511.7	180.9
185	15.001	35.967	26.718	137.1	.505	1511.6	185.9
190	14.739	35.947	26.761	133.2	.512	1510.8	190.9
195	14.627	35.946	26.784	131.0	.519	1510.6	195.9
200	14.461	35.915	26.796	130.0	.525	1510.1	200.9
225	12.949	35.670	26.923	118.2	.556	1505.2	225.9
250	12.365	35.600	26.985	112.7	.585	1503.6	250.9
275	10.426	35.338	27.142	97.6	.612	1496.9	276.9
300	9.320	35.220	27.239	88.4	.636	1493.1	301.9
325	8.628	35.135	27.284	84.2	.657	1490.8	326.9
350	7.837	35.044	27.333	79.4	.678	1488.1	351.9
375	7.642	35.026	27.348	78.3	.697	1487.7	376.9
400	7.624	35.075	27.389	74.9	.717	1488.1	402.9
425	6.828	35.071	27.499	64.2	.735	1485.4	427.9
450	6.358	35.052	27.547	59.6	.750	1484.0	452.9
475	6.036	35.035	27.576	56.9	.765	1483.1	477.9
500	5.904	35.031	27.590	55.9	.779	1483.0	503.9
600	4.969	34.998	27.678	47.7	.832	1480.8	604.9
700	4.597	34.991	27.714	44.8	.878	1480.9	705.9
800	4.407	34.991	27.735	43.6	.923	1481.8	806.9
900	4.252	34.987	27.749	43.0	.967	1482.8	907.9
1000	4.121	34.983	27.760	42.7	1.010	1483.9	1008.9
1100	4.025	34.981	27.769	42.6	1.053	1485.1	1109.9
1200	3.891	34.979	27.781	42.0	1.096	1486.2	1210.9
1300	3.811	34.978	27.788	42.0	1.139	1487.6	1312.9
1335	3.805	34.982	27.792	41.9	1.153	1488.2	1347.9

SIGMA-T

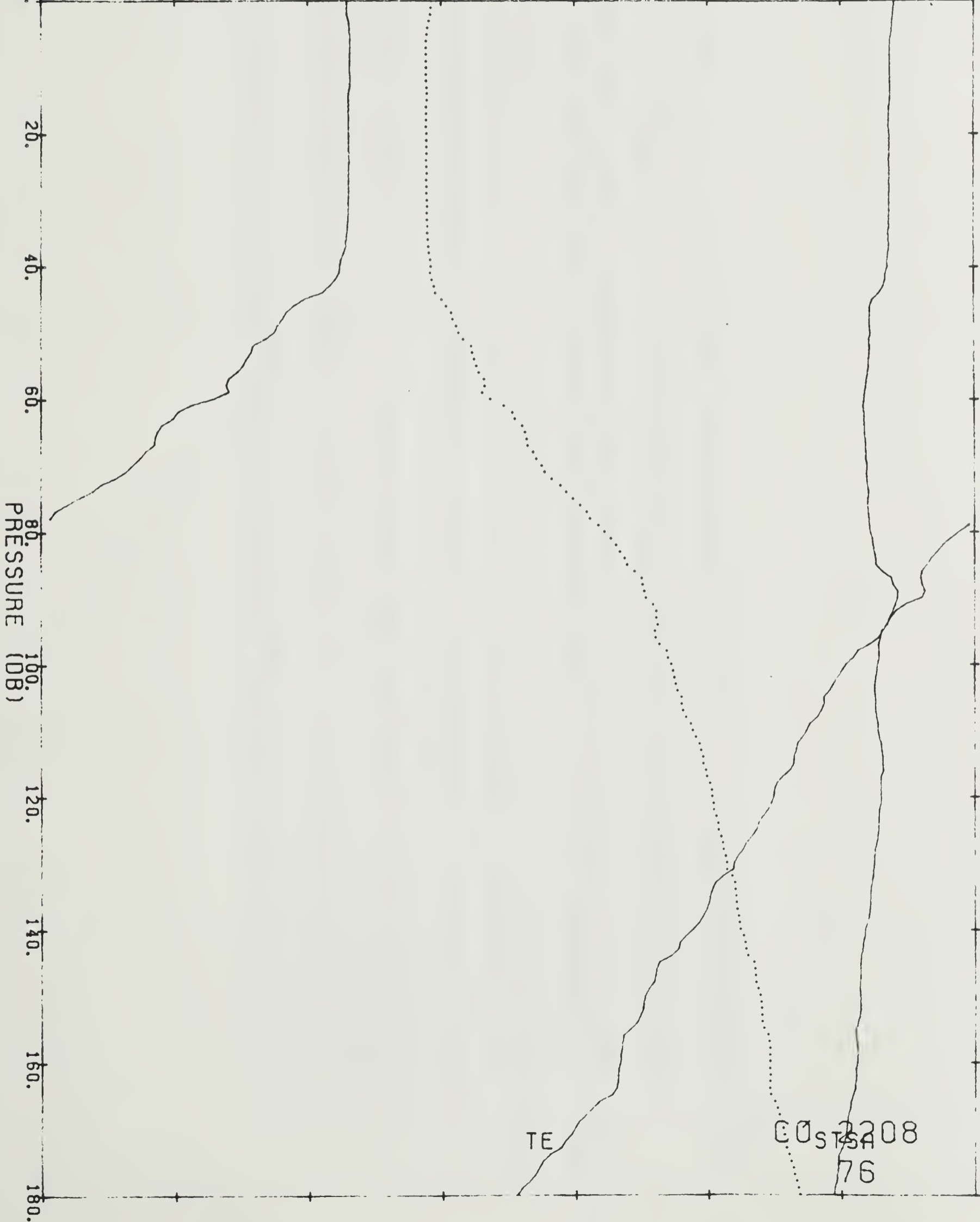
21. 22. 23. 24. 25. 26. 27. 28.

SALINITY (PPT)

30. 31. 32. 33. 34. 35. 36. 37.

TEMPERATURE (DEG C)

8. 10. 12. 14. 16. 18. 20. 22.



SHIP CO CRUISE 22-08 STATION 77 POSITION 35 16.79 N 74 47.21 W
 LOCAL TIME 218 DATE 79/ 6/28 WIND = DIR = DEPTH=2500M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	27.380	36.255	23.543	433.6	.000	1541.6	.0
5	27.395	36.256	23.539	434.2	.022	1541.7	5.0
10	27.438	36.250	23.521	436.2	.044	1541.9	10.0
15	27.414	36.256	23.533	435.2	.065	1541.9	14.9
20	27.516	36.300	23.533	435.4	.087	1542.3	19.9
25	27.513	36.322	23.551	434.0	.108	1542.4	24.9
30	27.510	36.325	23.554	433.9	.130	1542.5	29.9
35	27.509	36.324	23.553	434.1	.152	1542.6	34.9
40	27.503	36.329	23.559	433.8	.173	1542.6	39.9
45	27.486	36.330	23.565	433.4	.195	1542.7	44.9
50	26.601	36.340	23.857	405.7	.216	1540.8	49.9
55	25.866	36.368	24.110	381.8	.236	1539.3	54.9
60	25.398	36.329	24.226	371.0	.255	1538.2	59.9
65	24.900	36.350	24.394	355.1	.273	1537.2	64.9
70	24.356	36.329	24.543	341.1	.290	1535.9	69.9
75	24.071	36.498	24.756	320.9	.307	1535.5	74.9
80	23.520	36.596	24.994	298.5	.322	1534.4	79.9
85	23.084	36.610	25.133	285.5	.337	1533.4	84.9
90	22.716	36.633	25.256	273.9	.351	1532.6	89.9
95	22.472	36.666	25.352	265.0	.364	1532.1	94.9
100	22.137	36.635	25.423	258.3	.377	1531.3	99.9
105	21.577	36.598	25.553	246.1	.390	1529.9	104.9
110	21.348	36.571	25.596	242.3	.405	1529.4	110.9
115	20.882	36.593	25.741	228.6	.416	1528.3	115.9
120	20.358	36.578	25.872	216.3	.428	1526.9	120.9
125	20.114	36.608	25.960	208.1	.438	1526.4	125.9
130	19.995	36.645	26.020	202.6	.448	1526.2	130.9
135	19.992	36.650	26.024	202.3	.459	1526.3	135.9
140	19.524	36.655	26.152	190.4	.468	1525.1	140.9
145	19.384	36.639	26.176	188.2	.478	1524.7	145.9
150	19.229	36.630	26.210	185.2	.487	1524.4	150.9
155	19.079	36.610	26.233	183.1	.496	1524.0	155.9
160	18.900	36.598	26.270	179.7	.505	1523.6	160.9
165	18.665	36.570	26.309	176.2	.514	1523.0	165.9
170	18.579	36.551	26.316	175.6	.523	1522.8	170.9
175	18.354	36.516	26.346	172.9	.532	1522.2	175.9
180	18.228	36.510	26.373	170.5	.540	1521.9	180.9
185	18.122	36.503	26.394	168.6	.549	1521.7	185.9
190	17.945	36.472	26.415	166.8	.557	1521.2	190.9
195	17.766	36.455	26.446	164.0	.566	1520.8	195.9
200	17.730	36.435	26.440	164.8	.574	1520.7	200.9
225	16.841	36.250	26.513	158.3	.614	1518.3	225.9
250	15.562	36.069	26.671	143.7	.652	1514.6	250.9
275	14.637	35.940	26.778	134.0	.688	1511.9	276.9
300	13.515	35.784	26.896	123.1	.720	1508.5	301.9
325	12.622	35.625	26.954	117.8	.750	1505.7	326.9
350	11.314	35.436	27.058	107.8	.778	1501.4	351.9
375	10.329	35.317	27.143	99.6	.804	1498.1	376.9
400	10.007	35.272	27.164	98.0	.830	1497.3	402.9
425	9.813	35.254	27.183	96.6	.854	1497.0	427.9
450	9.148	35.174	27.231	92.0	.878	1494.9	452.9
475	8.672	35.127	27.270	88.3	.901	1493.4	477.9
500	8.036	35.075	27.328	82.8	.922	1491.4	502.9
600	6.145	35.075	27.594	57.2	.993	1485.6	603.9
700	4.833	35.005	27.699	46.7	1.045	1481.9	704.9
800	4.764	35.044	27.738	44.0	1.091	1483.3	805.9
900	4.494	35.019	27.748	43.6	1.136	1483.8	907.9
1000	4.340	35.014	27.761	43.1	1.179	1484.8	1008.9
1100	4.131	35.000	27.772	42.5	1.223	1485.6	1109.9
1200	3.980	34.984	27.776	42.7	1.266	1486.6	1210.9
1300	3.934	34.981	27.778	43.3	1.309	1488.1	1311.9
1400	3.837	34.977	27.785	43.3	1.353	1489.4	1413.9
1500	3.792	34.983	27.794	43.1	1.397	1490.9	1514.9
1600	3.738	34.985	27.802	43.1	1.441	1492.3	1616.9
1700	3.689	34.987	27.808	43.2	1.484	1493.8	1717.9
1800	3.577	34.989	27.821	42.3	1.528	1495.0	1819.9
1900	3.477	34.988	27.830	41.9	1.571	1496.3	1920.9
2000	3.395	34.986	27.836	41.7	1.613	1497.7	2022.9
2100	3.313	34.983	27.842	41.5	1.656	1499.0	2124.9
2200	3.178	34.979	27.852	40.7	1.697	1500.1	2225.9
2300	3.052	34.976	27.861	39.8	1.738	1501.3	2327.9
2400	3.006	34.972	27.862	40.1	1.779	1502.8	2429.9
2500	2.981	34.971	27.864	40.5	1.820	1504.4	2530.9

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AM
0		36.186	4.58					
1983		34.963	6.12					
2497		34.950	6.05					

SIGMA-T

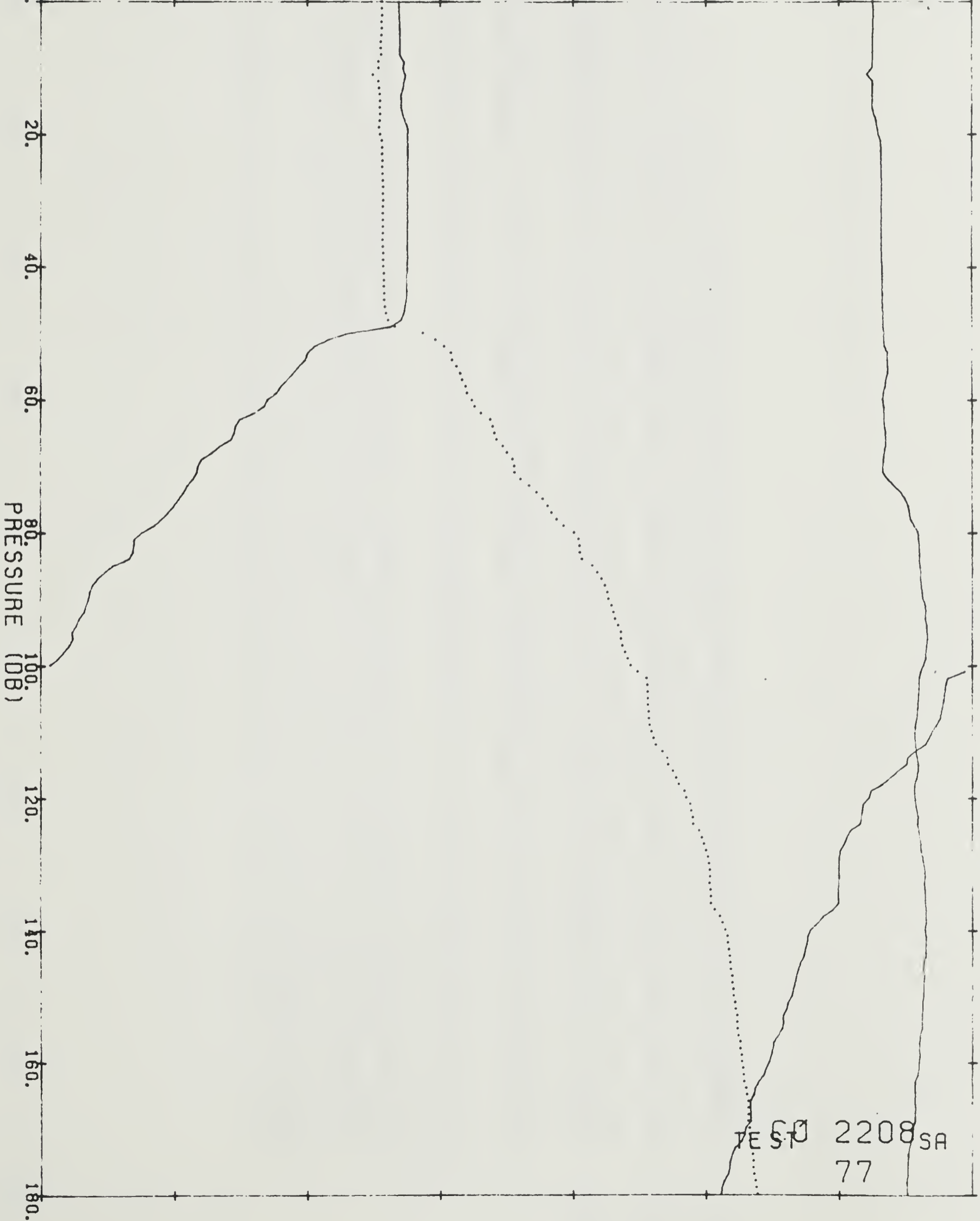
21. 22. 23. 24. 25. 26. 27. 28.

SALINITY (PPT)

30. 31. 32. 33. 34. 35. 36. 37.

TEMPERATURE (DEG C)

8. 10. 12. 14. 16. 18. 20. 22.



TEST 2208 SA
77

SHIP CO CRUISE 22-08 STATION 78 POSITION 35 3.00 N 74 41.94 W
 LOCAL TIME 850 DATE 79/ 6/28 WIND # DIR = DEPTH=2812M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	27.400	36.350	23.608	427.4	.000	1541.8	.0
5	27.451	36.276	23.536	434.5	.022	1541.9	5.0
10	27.505	36.254	23.502	438.0	.043	1542.1	10.0
15	27.508	36.253	23.500	438.4	.065	1542.1	14.9
20	27.508	36.254	23.501	438.5	.087	1542.2	19.9
25	27.507	36.255	23.502	438.6	.109	1542.3	24.9
30	27.509	36.254	23.500	439.0	.131	1542.4	29.9
35	27.507	36.254	23.501	439.1	.153	1542.5	34.9
40	27.508	36.253	23.500	439.4	.175	1542.6	39.9
45	27.504	36.254	23.502	439.4	.197	1542.6	44.9
50	27.497	36.255	23.505	439.3	.219	1542.7	49.9
55	26.784	36.256	23.735	417.5	.240	1541.2	54.9
60	25.523	36.383	24.228	370.8	.260	1538.6	59.9
65	24.596	36.525	24.619	333.7	.277	1536.6	64.9
70	24.252	36.578	24.763	320.1	.294	1536.0	69.9
75	23.648	36.589	24.951	302.4	.309	1534.6	74.9
80	23.251	36.607	25.082	290.1	.324	1533.7	79.9
85	22.751	36.666	25.272	272.2	.338	1532.6	84.9
90	22.608	36.670	25.316	268.2	.352	1532.4	89.9
95	22.113	36.716	25.492	251.6	.365	1531.3	94.9
100	21.620	36.750	25.657	236.1	.377	1530.1	99.9
105	21.272	36.778	25.775	225.1	.388	1529.3	104.9
110	21.096	36.790	25.832	219.8	.402	1529.0	110.9
115	20.876	36.787	25.890	214.4	.413	1528.5	115.9
120	20.733	36.775	25.920	211.8	.423	1528.2	120.9
125	20.652	36.772	25.940	210.1	.434	1528.0	125.9
130	20.480	36.745	25.966	207.8	.444	1527.6	130.9
135	20.278	36.730	26.009	203.8	.454	1527.1	135.9
140	20.114	36.715	26.041	200.9	.465	1526.8	140.9
145	19.746	36.660	26.097	195.7	.474	1525.8	145.9
150	19.565	36.647	26.135	192.3	.484	1525.3	150.9
155	19.313	36.618	26.179	188.3	.494	1524.7	155.9
160	19.170	36.605	26.206	185.9	.503	1524.4	160.9
165	19.074	36.600	26.227	184.0	.512	1524.2	165.9
170	19.015	36.593	26.237	183.3	.521	1524.1	170.9
175	18.931	36.585	26.252	181.9	.531	1523.9	175.9
180	18.855	36.576	26.265	180.9	.540	1523.8	180.9
185	18.787	36.566	26.274	180.2	.549	1523.6	185.9
190	18.724	36.563	26.288	179.0	.558	1523.5	190.9
195	18.677	36.560	26.298	178.2	.567	1523.5	195.9
200	18.571	36.550	26.317	176.6	.575	1523.3	200.9
225	18.062	36.498	26.406	168.9	.619	1522.2	225.9
250	17.895	36.483	26.436	166.9	.661	1522.1	250.9
275	17.590	36.440	26.478	163.6	.704	1521.5	276.9
300	16.988	36.349	26.554	157.0	.744	1520.1	301.9
325	16.494	36.270	26.611	152.2	.782	1518.9	326.9
350	15.758	36.142	26.683	145.8	.820	1516.9	351.9
375	15.194	36.049	26.739	141.0	.855	1515.4	376.9
400	14.954	36.009	26.761	139.5	.892	1515.0	402.9
425	14.348	35.912	26.819	134.4	.926	1513.4	427.9
450	12.855	35.661	26.935	123.0	.958	1508.6	452.9
475	11.153	35.438	27.089	107.7	.987	1502.9	477.9
500	9.919	35.259	27.169	99.6	1.013	1498.6	502.9
600	8.159	35.081	27.314	86.0	1.107	1493.5	603.9
700	6.364	35.072	27.562	61.9	1.181	1488.1	704.9
800	4.984	35.023	27.696	48.4	1.237	1484.2	805.9
900	4.685	35.029	27.735	45.3	1.284	1484.6	906.9
1000	4.493	35.019	27.748	44.7	1.330	1485.5	1008.9
1100	4.397	35.026	27.764	44.0	1.375	1486.8	1109.9
1200	4.230	35.016	27.775	43.6	1.419	1487.7	1210.9
1300	4.070	35.004	27.782	43.3	1.463	1488.7	1311.9
1400	3.941	34.996	27.789	43.2	1.507	1489.8	1413.9
1500	3.876	34.995	27.795	43.3	1.551	1491.2	1514.9
1600	3.804	34.994	27.802	43.3	1.595	1492.6	1615.9
1700	3.725	34.994	27.810	43.1	1.639	1494.0	1717.9
1800	3.654	34.994	27.817	43.0	1.682	1495.4	1818.9
1900	3.565	34.991	27.824	42.8	1.726	1496.7	1920.9
2000	3.490	34.991	27.831	42.6	1.770	1498.1	2022.9
2100	3.375	34.984	27.837	42.3	1.812	1499.3	2123.9
2200	3.234	34.994	27.858	40.4	1.855	1500.4	2225.9
2300	3.156	34.977	27.852	41.2	1.896	1501.7	2327.9
2400	3.047	34.973	27.859	40.6	1.938	1503.0	2429.9
2500	2.911	34.969	27.869	39.6	1.979	1504.1	2531.9
2600	2.819	34.964	27.873	39.3	2.019	1505.4	2632.9
2700	2.749	34.973	27.887	38.3	2.058	1506.9	2734.9
2800	2.642	34.956	27.883	38.5	2.097	1508.1	2836.9
2812	2.610	34.953	27.883	38.3	2.102	1508.2	2849.9

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AM
14	27.420	36.256						
43	27.430	36.256						
2780	2.660	34.931						
2798		35.260						

SIGMA-T

21. 22. 23. 24. 25. 26. 27. 28.

SALINITY (PPT)

30. 31. 32. 33. 34. 35. 36. 37.

TEMPERATURE (DEG C)

8. 10. 12. 14. 16. 18. 20. 22.



SHIP CO CRUISE 22-08 STATION 79 POSITION 35 6.00 N 75 3.50 W
 LOCAL TIME 2145 DATE 79/ 6/28 WIND = DIR = DEPTH=1487M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	27.278	36.078	23.443	443.2	.000	1541.2	.0
5	27.276	36.075	23.441	443.6	.022	1541.3	5.0
10	27.284	36.075	23.438	444.0	.044	1541.4	10.0
15	27.269	36.081	23.448	443.3	.066	1541.4	14.9
20	27.278	36.075	23.441	444.3	.088	1541.5	19.9
25	27.319	36.090	23.438	444.7	.111	1541.7	24.9
30	27.416	36.232	23.514	437.7	.133	1542.2	29.9
35	27.242	36.282	23.608	428.9	.154	1541.9	34.9
40	26.689	36.271	23.777	413.0	.175	1540.8	39.9
45	26.010	36.281	23.999	392.0	.195	1539.3	44.9
50	25.421	36.237	24.149	377.8	.215	1538.0	49.9
55	24.797	36.187	24.302	363.4	.233	1536.6	54.9
60	24.655	36.220	24.370	357.1	.251	1536.4	59.9
65	24.643	36.226	24.379	356.6	.269	1536.4	64.9
70	24.401	36.245	24.466	348.4	.287	1536.0	69.9
75	24.041	36.250	24.578	337.9	.304	1535.2	74.9
80	23.464	36.250	24.748	321.8	.320	1533.9	79.9
85	22.558	36.177	24.956	302.2	.336	1531.6	84.9
90	21.465	36.199	25.280	271.5	.350	1528.9	89.9
95	21.125	36.222	25.392	261.0	.364	1528.1	94.9
100	20.511	36.200	25.542	246.9	.376	1526.6	99.9
105	19.790	36.184	25.722	229.9	.388	1524.7	104.9
110	18.559	36.199	26.052	198.6	.401	1521.3	110.9
115	18.361	36.186	26.092	195.0	.411	1520.8	115.9
120	18.265	36.208	26.133	191.2	.421	1520.7	120.9
125	18.040	36.216	26.195	185.5	.430	1520.1	125.9
130	17.588	36.189	26.286	176.9	.439	1518.9	130.9
135	17.371	36.179	26.331	172.8	.448	1518.3	135.9
140	17.211	36.186	26.375	168.7	.456	1517.9	140.9
145	17.076	36.173	26.398	166.7	.465	1517.6	145.9
150	16.410	36.140	26.530	154.2	.473	1515.6	150.9
155	16.047	36.115	26.596	148.0	.480	1514.6	155.9
160	16.009	36.087	26.583	149.4	.488	1514.5	160.9
165	15.661	36.042	26.628	145.2	.495	1513.4	165.9
170	15.461	36.021	26.657	142.5	.502	1512.9	170.9
175	15.202	35.992	26.693	139.2	.509	1512.1	175.9
180	14.846	35.930	26.724	136.3	.516	1511.0	180.9
185	14.521	35.879	26.756	133.4	.523	1510.0	185.9
190	14.119	35.803	26.783	130.8	.530	1508.7	190.9
195	13.836	35.778	26.824	127.0	.536	1507.8	195.9
200	13.716	35.759	26.834	126.1	.542	1507.5	200.9
225	12.775	35.647	26.940	116.5	.573	1504.6	225.9
250	12.208	35.570	26.992	111.9	.601	1503.0	250.9
275	11.630	35.492	27.042	107.6	.630	1501.3	276.9
300	10.951	35.403	27.099	102.5	.656	1499.2	301.9
325	10.122	35.294	27.161	96.7	.681	1496.5	326.9
350	9.457	35.210	27.208	92.3	.705	1494.4	351.9
375	9.277	35.196	27.227	91.0	.728	1494.1	376.9
400	8.829	35.144	27.259	88.1	.751	1492.8	402.9
425	8.431	35.125	27.307	83.8	.772	1491.7	427.9
450	7.695	35.082	27.384	76.3	.792	1489.2	452.9
475	7.057	35.083	27.476	67.3	.810	1487.2	477.9
500	6.467	35.080	27.555	59.7	.827	1485.3	503.9
600	5.300	35.020	27.656	50.2	.882	1482.1	603.9
700	4.656	34.995	27.711	45.2	.930	1481.1	704.9
800	4.419	34.990	27.733	43.8	.975	1481.8	806.9
900	4.245	34.985	27.748	43.1	1.019	1482.7	907.9
1000	4.076	34.981	27.763	42.3	1.062	1483.7	1008.9
1100	4.056	34.981	27.765	43.0	1.105	1485.3	1109.9
1200	3.921	34.978	27.777	42.5	1.149	1486.4	1210.9
1300	3.744	34.978	27.795	41.1	1.191	1487.3	1312.9
1400	3.679	34.980	27.803	41.0	1.233	1488.7	1413.9
1487	3.657	34.984	27.809	41.2	1.269	1490.1	1501.9

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AM
26	27.340	36.102	4.60					
209		35.755	3.23					
1447		35.275	4.34					

SIGMA-T

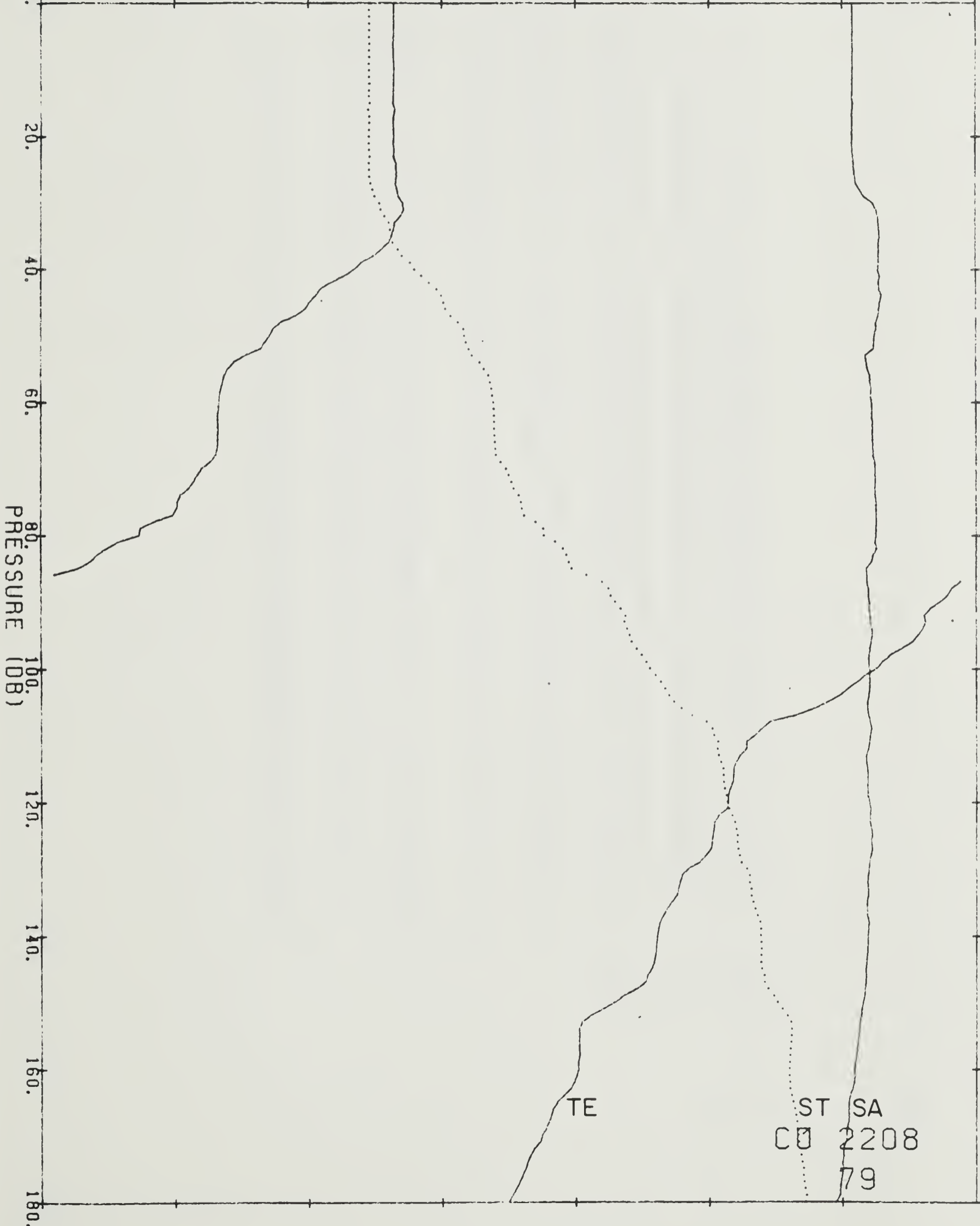
21. 22. 23. 24. 25. 26. 27. 28.

SALINITY (PPT)

30. 31. 32. 33. 34. 35. 36. 37.

TEMPERATURE (DEG C)

8. 10. 12. 14. 16. 18. 20. 22.



TE

ST SA
C 2208
79

SHIP CO CRUISE 22-08 STATION 80 POSITION 34 57.00 N 75 10.50 W
 LOCAL TIME 406 DATE 79/ 6/29 WIND = DIR = DEPTH= 780M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	27.320	36.125	23.465	441.1	.000	1541.3	.0
5	27.311	36.085	23.437	444.0	.022	1541.4	5.0
10	27.331	36.082	23.429	445.0	.044	1541.5	10.0
15	27.323	36.080	23.430	445.1	.066	1541.5	14.9
20	27.317	36.080	23.432	445.1	.088	1541.6	19.9
25	27.334	36.081	23.427	445.8	.111	1541.7	24.9
30	27.336	36.081	23.426	446.0	.133	1541.8	29.9
35	27.339	36.084	23.427	446.1	.155	1541.9	34.9
40	27.342	36.080	23.424	446.7	.178	1542.0	39.9
45	27.361	36.098	23.431	446.2	.200	1542.1	44.9
50	27.367	36.115	23.442	445.4	.222	1542.3	49.9
55	27.405	36.248	23.530	437.2	.244	1542.6	54.9
60	27.279	36.312	23.619	428.9	.266	1542.5	59.9
65	27.064	36.336	23.706	420.8	.287	1542.1	64.9
70	26.127	36.305	23.980	394.8	.308	1540.0	69.9
75	24.983	36.394	24.402	354.7	.326	1537.6	74.9
80	24.617	36.434	24.544	341.4	.344	1536.8	79.9
85	24.210	36.471	24.694	327.2	.361	1536.0	84.9
90	23.803	36.506	24.842	313.3	.377	1535.1	89.9
95	23.395	36.540	24.988	299.6	.392	1534.3	94.9
100	22.988	36.575	25.134	285.9	.406	1533.4	99.9
105	22.580	36.610	25.278	272.4	.420	1532.5	104.9
110	22.173	36.644	25.420	259.0	.434	1531.6	109.9
115	21.765	36.679	25.562	245.7	.446	1530.7	114.9
120	21.287	36.713	25.721	230.7	.461	1529.5	120.9
125	20.875	36.707	25.830	220.6	.472	1528.5	125.9
130	20.604	36.697	25.896	214.4	.483	1527.9	130.9
135	20.122	36.613	25.961	208.3	.493	1526.6	135.9
140	19.782	36.573	26.021	202.8	.504	1525.7	140.9
145	19.282	36.481	26.082	197.1	.514	1524.3	145.9
150	18.872	36.397	26.123	193.3	.523	1523.1	150.9
155	18.675	36.392	26.170	189.0	.533	1522.6	155.9
160	18.498	36.372	26.200	186.3	.542	1522.2	160.9
165	18.269	36.355	26.244	182.2	.552	1521.6	165.9
170	18.088	36.343	26.280	178.9	.561	1521.1	170.9
175	17.828	36.321	26.328	174.5	.569	1520.4	175.9
180	17.736	36.305	26.338	173.7	.578	1520.2	180.9
185	17.444	36.260	26.375	170.2	.587	1519.4	185.9
190	16.970	36.173	26.423	165.8	.595	1518.0	190.9
195	16.627	36.142	26.481	160.3	.603	1517.0	195.9
200	16.489	36.136	26.509	157.8	.611	1516.7	200.9
225	15.953	36.159	26.651	145.0	.649	1515.5	225.9
250	14.822	35.950	26.745	136.4	.684	1512.1	250.9
275	13.581	35.770	26.871	124.7	.718	1508.3	276.9
300	12.685	35.648	26.959	116.6	.748	1505.5	301.9
325	11.509	35.471	27.049	108.1	.776	1501.7	326.9
350	10.497	35.339	27.131	100.4	.803	1498.3	351.9
375	9.812	35.253	27.182	95.6	.827	1496.2	376.9
400	8.624	35.134	27.283	85.6	.851	1492.0	402.9
425	8.409	35.125	27.310	83.4	.872	1491.6	427.9
450	7.724	35.093	27.388	75.9	.892	1489.4	452.9
475	6.896	35.082	27.498	65.1	.909	1486.5	477.9
500	6.327	35.063	27.560	59.1	.925	1484.7	502.9
600	5.026	35.005	27.676	47.9	.979	1481.0	603.9
700	4.654	34.994	27.710	45.3	1.026	1481.1	704.9
780	4.517	34.990	27.723	44.8	1.062	1481.9	785.8

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AM
28	27.300	36.079						
53	27.210	36.295						
772	4.530	34.985						
774		35.171						

SIGMA-T

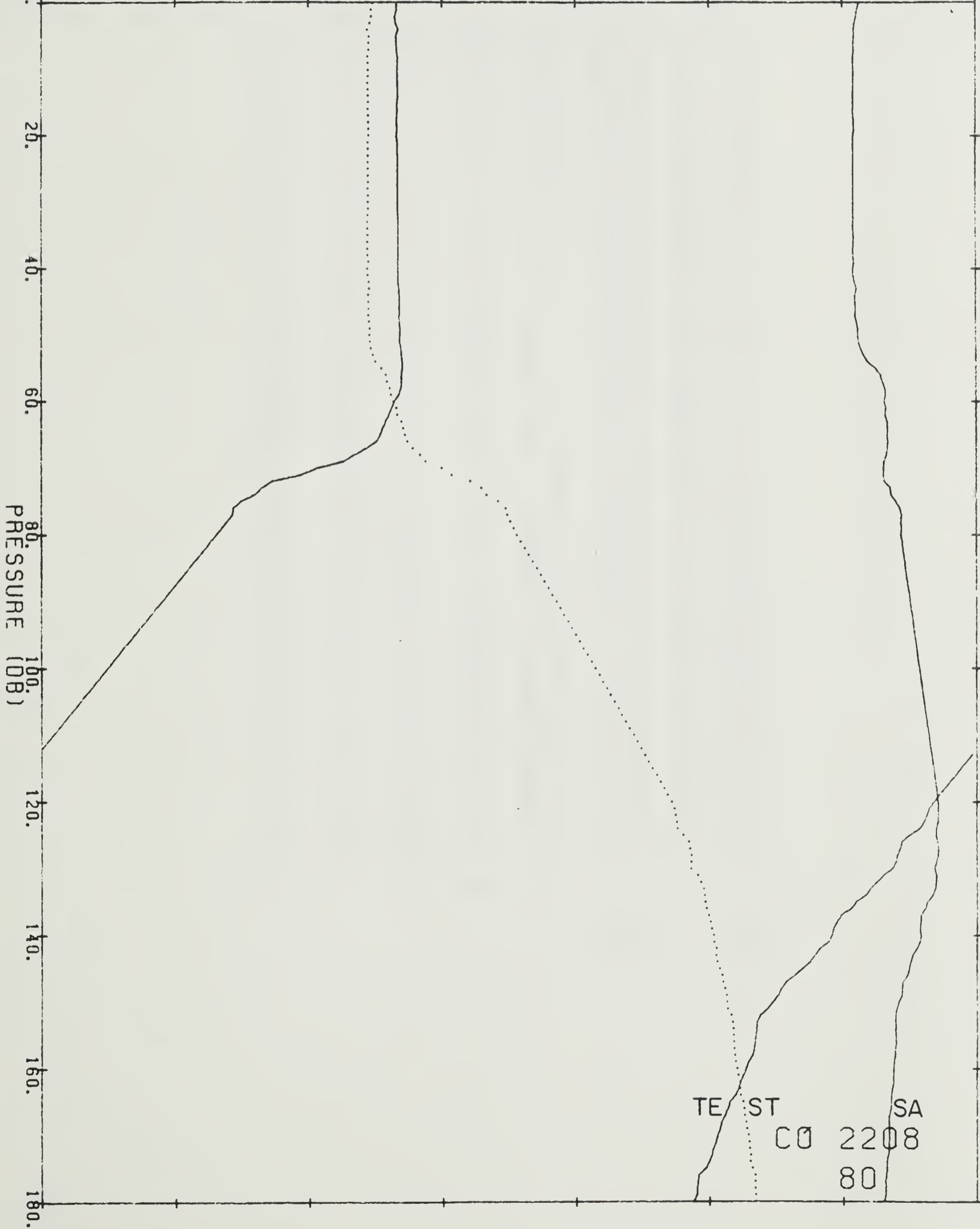
21. 22. 23. 24. 25. 26. 27. 28.

SALINITY (PPT)

30. 31. 32. 33. 34. 35. 36. 37.

TEMPERATURE (DEG C)

8. 10. 12. 14. 16. 18. 20. 22.



SHIP CO CRUISE 22-08 STATION 81 POSITION 34 58.57 N 75 16.07 W
 LOCAL TIME 704 DATE 79/ 6/29 WIND = DIR = DEPTH= 517M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	27.175	36.175	23.549	433.1	.000	1541.1	.0
5	27.178	36.167	23.542	434.0	.022	1541.2	5.0
10	27.155	36.165	23.548	433.6	.043	1541.2	10.0
15	27.198	36.159	23.530	435.5	.065	1541.4	14.9
20	27.191	36.166	23.537	435.0	.087	1541.4	19.9
25	27.189	36.166	23.538	435.2	.108	1541.5	24.9
30	27.200	36.165	23.533	435.8	.130	1541.6	29.9
35	27.188	36.168	23.539	435.4	.152	1541.7	34.9
40	27.190	36.166	23.537	435.8	.174	1541.8	39.9
45	27.191	36.166	23.537	436.1	.195	1541.8	44.9
50	27.208	36.165	23.531	436.9	.217	1542.0	49.9
55	26.736	36.243	23.741	417.0	.239	1541.1	54.9
60	25.954	36.280	24.016	391.0	.259	1539.4	59.9
65	25.088	36.245	24.257	368.1	.278	1537.5	64.9
70	24.826	36.330	24.402	354.6	.296	1537.1	69.9
75	24.088	36.360	24.647	331.4	.313	1535.4	74.9
80	23.325	36.380	24.888	308.6	.329	1533.7	79.9
85	23.288	36.404	24.917	306.0	.344	1533.7	84.9
90	23.170	36.381	24.934	304.6	.360	1533.4	89.9
95	22.690	36.413	25.097	289.2	.374	1532.4	94.9
100	22.398	36.429	25.193	280.3	.389	1531.7	99.9
105	22.010	36.548	25.393	261.4	.402	1531.0	104.9
110	21.611	36.572	25.524	249.1	.415	1530.0	109.9
115	20.804	36.564	25.740	228.7	.429	1528.0	115.9
120	20.495	36.581	25.837	219.7	.441	1527.3	120.9
125	20.163	36.566	25.915	212.4	.451	1526.5	125.9
130	19.872	36.507	25.947	209.5	.462	1525.7	130.9
135	19.322	36.478	26.069	197.9	.472	1524.2	135.9
140	19.009	36.469	26.143	191.1	.482	1523.4	140.9
145	18.755	36.426	26.175	188.1	.491	1522.7	145.9
150	18.521	36.406	26.220	184.1	.501	1522.1	150.9
155	18.434	36.401	26.238	182.5	.510	1522.0	155.9
160	18.335	36.390	26.254	181.1	.519	1521.7	160.9
165	18.282	36.382	26.262	180.5	.528	1521.7	165.9
170	18.120	36.361	26.286	178.4	.537	1521.3	170.9
175	17.881	36.336	26.326	174.7	.546	1520.6	175.9
180	17.601	36.305	26.372	170.5	.554	1519.8	180.9
185	17.203	36.253	26.429	165.1	.563	1518.7	185.9
190	16.756	36.186	26.484	159.9	.571	1517.4	190.9
195	16.399	36.142	26.534	155.2	.579	1516.3	195.9
200	16.145	36.110	26.569	152.0	.586	1515.6	200.9
225	14.931	35.980	26.744	135.8	.622	1512.1	225.9
250	14.637	35.953	26.788	132.3	.656	1511.5	250.9
275	14.153	35.885	26.839	128.0	.690	1510.3	276.9
300	13.545	35.782	26.888	123.8	.721	1508.6	301.9
325	12.832	35.668	26.945	118.7	.751	1506.5	326.9
350	12.412	35.627	26.997	114.2	.781	1505.4	351.9
375	10.028	35.280	27.166	97.2	.807	1497.0	376.9
400	8.911	35.156	27.255	88.5	.831	1493.1	402.9
425	8.122	35.097	27.332	81.1	.852	1490.5	427.9
450	7.330	35.080	27.435	71.1	.871	1487.8	452.9
475	6.967	35.077	27.484	66.5	.889	1486.8	477.9
489	6.919	35.079	27.493	65.9	.898	1486.9	491.9

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AM
29		36.186						
308		35.721						
517		35.127						

SIGMA-T

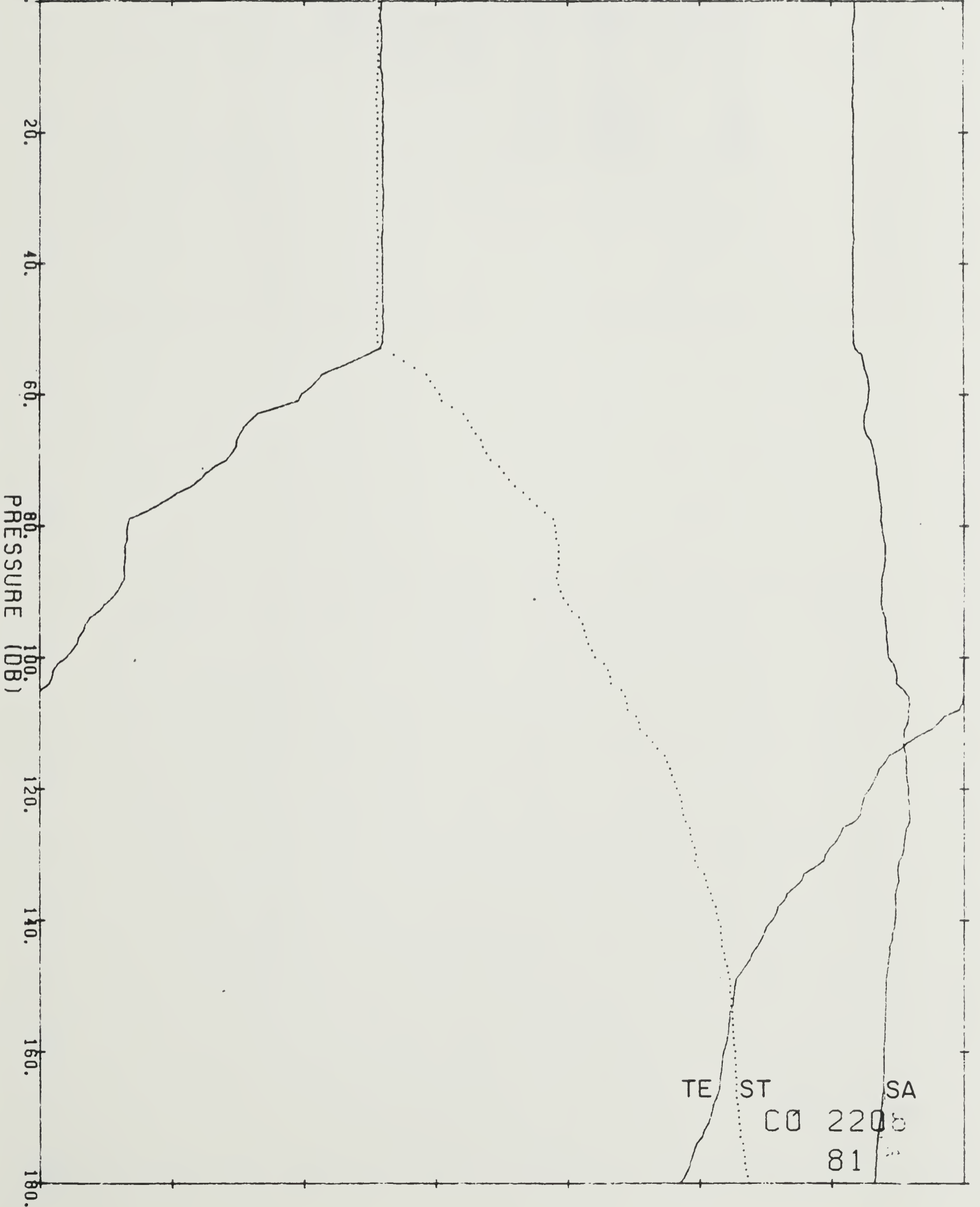
21. 22. 23. 24. 25. 26. 27. 28.

SALINITY (PPT)

30. 31. 32. 33. 34. 35. 36. 37.

TEMPERATURE (DEG C)

8. 10. 12. 14. 16. 18. 20. 22.



SHIP CO CRUISE 22-08 STATION 82 POSITION 34 51.20 N 75 25.40 W
LOCAL TIME 1420 DATE 79/ 6/29 WIND = DIR = DEPTH= 173M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	27.749	36.297	23.455	442.1	.000	1542.5	.0
5	27.724	36.232	23.414	446.2	.022	1542.4	5.0
10	27.725	36.231	23.413	446.4	.040	1542.5	9.0

DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AM
0		36.236	4.56					
38		36.180	4.84					
54		36.182	4.48					
72		36.190	4.84					
173		35.814	3.30					

SIGMA-T

21. 22. 23. 24. 25. 26. 27. 28.

SALINITY (PPT)

30. 31. 32. 33. 34. 35. 36. 37.

TEMPERATURE (DEG C)

8. 10. 12. 14. 16. 18. 20. 22.

ST TE

SA

PRESSURE (DB)

20.
40.
60.
80.
100.
120.
140.
160.
180.

C0 2208
82

SHIP CO CRUISE 22-08 STATION 83 POSITION 34 48.00 N 75 17.00 W
 LOCAL TIME 2020 DATE 79/ 6/29 WIND = DIR = DEPTH=1325M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS	
0	27.777	36.287	23.438	443.7	.000	1542.5	.0	
5	27.802	36.283	23.427	444.9	.022	1542.7	5.0	
10	27.794	36.287	23.433	444.6	.045	1542.7	10.0	
15	27.747	36.289	23.449	443.2	.066	1542.7	14.9	
20	27.636	36.274	23.474	441.0	.088	1542.5	19.9	
25	27.589	36.283	23.496	439.1	.110	1542.5	24.9	
30	27.581	36.286	23.501	438.9	.132	1542.6	29.9	
35	27.550	36.295	23.518	437.5	.154	1542.6	34.9	
40	27.376	36.305	23.582	431.6	.176	1542.3	39.9	
45	26.861	36.323	23.761	414.7	.197	1541.3	44.9	
50	26.129	36.294	23.972	394.8	.217	1539.7	49.9	
55	25.469	36.286	24.171	375.9	.237	1538.3	54.9	
60	24.699	36.250	24.380	356.2	.255	1536.5	59.9	
65	24.378	36.277	24.497	345.2	.272	1535.9	64.9	
70	23.711	36.304	24.717	324.5	.289	1534.4	69.9	
75	23.354	36.307	24.824	314.5	.305	1533.6	74.9	
80	22.743	36.285	24.985	299.3	.321	1532.1	79.9	
85	21.842	36.234	25.202	278.8	.335	1529.8	84.9	
90	21.365	36.250	25.347	265.1	.349	1528.7	89.9	
92	21.177	36.250	25.399	260.2	.354	1528.2	91.9	
100	20.597	36.260	25.564	244.7	.374	1526.9	99.9	
105	20.309	36.266	25.647	237.1	.386	1526.2	104.9	
110	19.832	36.255	25.765	226.0	.400	1525.0	110.9	
115	19.421	36.262	25.878	215.4	.411	1523.9	115.9	
120	18.684	36.255	26.063	197.9	.421	1521.9	120.9	
125	18.231	36.266	26.185	186.4	.431	1520.7	125.9	
130	17.985	36.274	26.253	180.1	.440	1520.1	130.9	
135	17.681	36.255	26.313	174.5	.449	1519.3	135.9	
140	17.493	36.245	26.352	171.0	.458	1518.8	140.9	
145	17.215	36.228	26.406	165.9	.466	1518.0	145.9	
150	17.098	36.249	26.451	161.9	.474	1517.8	150.9	
155	16.701	36.191	26.501	157.2	.482	1516.6	155.9	
160	16.370	36.147	26.545	153.1	.490	1515.7	160.9	
165	16.227	36.129	26.565	151.3	.498	1515.3	165.9	
170	16.013	36.111	26.601	148.1	.505	1514.7	170.9	
175	15.832	36.080	26.618	146.5	.512	1514.2	175.9	
180	15.730	36.077	26.639	144.6	.520	1513.9	180.9	
185	15.570	36.063	26.665	142.3	.527	1513.5	185.9	
190	15.399	36.036	26.683	140.7	.534	1513.0	190.9	
195	15.135	36.007	26.719	137.3	.541	1512.2	195.9	
200	14.968	35.986	26.740	135.4	.548	1511.8	200.9	
225	13.948	35.826	26.838	126.6	.580	1508.7	225.9	
250	13.063	35.705	26.927	118.5	.611	1506.0	250.9	
275	12.631	35.634	26.959	116.0	.642	1504.9	276.9	
300	12.357	35.594	26.982	114.3	.670	1504.4	301.9	
325	12.228	35.571	26.989	114.2	.699	1504.3	326.9	
350	11.682	35.499	27.038	109.9	.727	1502.7	351.9	
375	11.230	35.427	27.066	107.5	.754	1501.5	376.9	
400	10.644	35.358	27.119	102.7	.781	1499.7	402.9	
425	9.964	35.281	27.178	97.2	.806	1497.6	427.9	
450	9.118	35.179	27.240	91.1	.830	1494.8	452.9	
475	8.531	35.138	27.301	85.3	.852	1492.9	477.9	
500	8.177	35.135	27.353	80.5	.873	1492.0	502.9	
600	5.470	35.068	27.673	48.8	.938	1482.9	603.9	
700	4.810	35.022	27.715	45.1	.985	1481.8	704.9	
800	4.583	35.019	27.738	43.7	1.030	1482.5	805.9	
900	4.321	35.005	27.756	42.5	1.074	1483.1	907.9	
1000	4.223	35.006	27.767	42.2	1.117	1484.3	1008.9	
1100	4.023	34.985	27.772	42.3	1.160	1485.1	1109.9	
1200	3.957	34.986	27.780	42.3	1.202	1486.5	1210.9	
1300	3.871	34.985	27.788	42.2	1.245	1487.8	1311.9	
1325	3.836	34.984	27.791	42.1	1.256	1488.1	1337.9	
DTH	TEM	SAL	OXG	PHOS	NITR	SIL	NO2	AM
31		36.289						
69		36.289						
212		35.845						
1004		35.295						

SIGMA-T

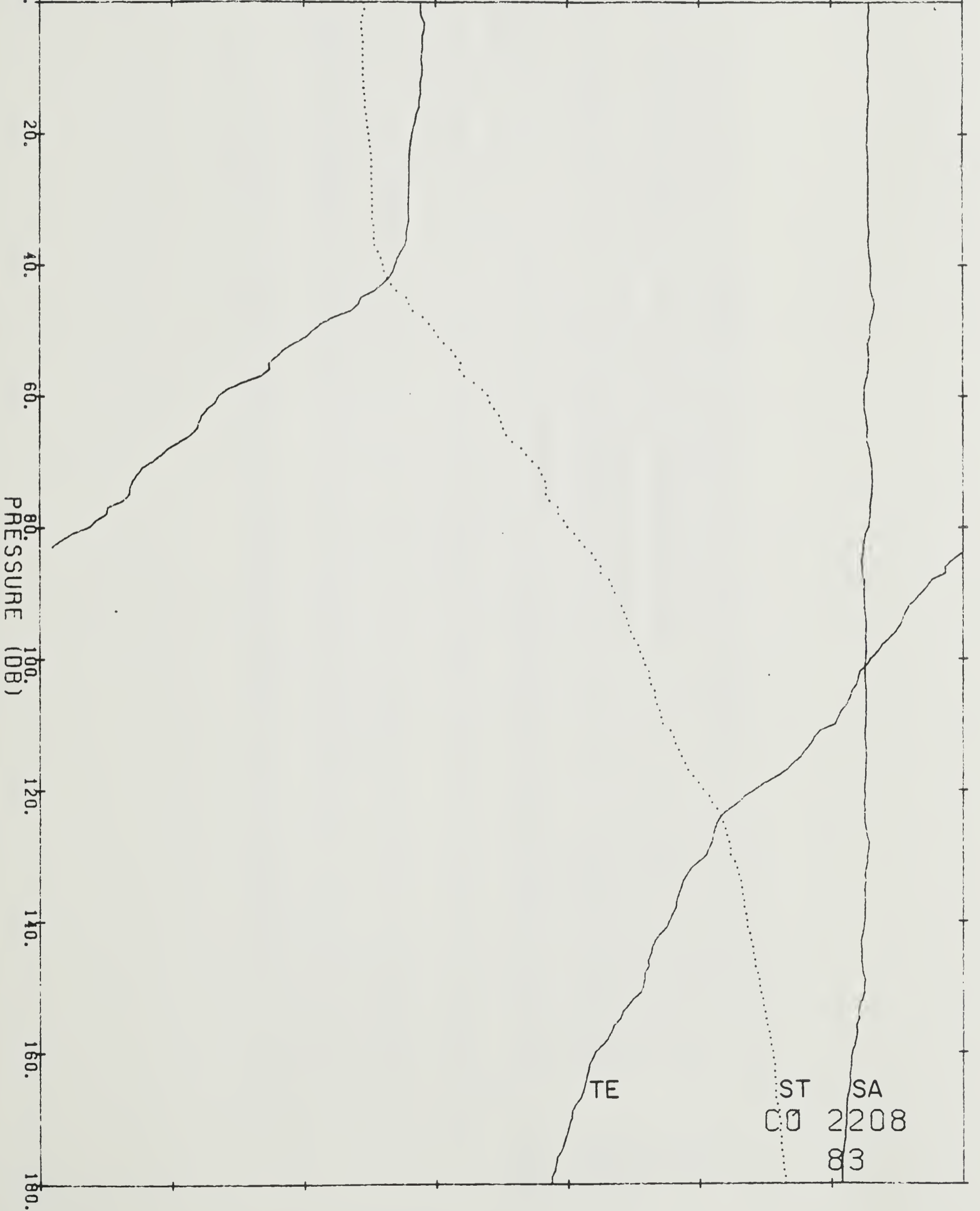
21. 22. 23. 24. 25. 26. 27. 28.

SALINITY (PPT)

30. 31. 32. 33. 34. 35. 36. 37.

TEMPERATURE (DEG C)

8. 10. 12. 14. 16. 18. 20. 22.



SHIP CO CRUISE 22-08 STATION 84 POSITION 34 47.10 N 75 15.50 W
 LOCAL TIME 2319 DATE 79/ 6/29 WIND = DIR = DEPTH=1911M

DTH	TEM	SAL	SGT	ANO	DYN	SVL	PRS
0	27.666	36.269	23.461	441.5	.000	1542.3	.0
5	27.823	36.250	23.395	448.0	.022	1542.7	5.0
10	27.833	36.247	23.390	448.7	.045	1542.8	10.0
15	27.791	36.238	23.397	448.2	.066	1542.7	14.8
20	27.379	36.195	23.498	438.8	.089	1541.9	19.9
25	26.966	36.209	23.642	425.2	.110	1541.1	24.9
30	26.758	36.210	23.709	419.0	.132	1540.7	29.9
35	26.428	36.212	23.815	409.1	.152	1540.0	34.9
40	26.031	36.191	23.925	398.9	.172	1539.2	39.9
45	25.285	36.160	24.133	379.2	.192	1537.5	44.9
50	24.883	36.199	24.285	364.9	.211	1536.7	49.9
55	24.742	36.204	24.332	360.6	.229	1536.5	54.9
60	24.289	36.199	24.465	348.1	.246	1535.5	59.9
65	23.356	36.171	24.720	324.0	.263	1533.3	64.9
70	22.638	36.199	24.949	302.3	.279	1531.6	69.9
75	21.837	36.189	25.169	281.5	.293	1529.6	74.9
80	21.437	36.195	25.285	270.6	.307	1528.7	79.9
85	20.836	36.190	25.446	255.4	.320	1527.2	84.9
90	20.427	36.190	25.557	245.1	.333	1526.2	89.9
95	19.897	36.198	25.704	231.2	.345	1524.8	94.9
100	19.097	36.175	25.896	213.1	.356	1522.6	99.9
105	18.107	36.160	26.135	190.4	.368	1519.9	105.9
110	17.550	36.161	26.274	177.4	.377	1518.4	110.9
115	17.259	36.141	26.329	172.3	.386	1517.6	115.9
120	16.907	36.140	26.413	164.4	.394	1516.6	120.9
125	16.644	36.106	26.449	161.1	.403	1515.9	125.9
130	16.383	36.084	26.494	157.0	.410	1515.1	130.8
135	15.719	36.018	26.596	147.3	.418	1513.1	135.8
140	15.295	35.978	26.661	141.2	.425	1511.8	140.8
145	14.971	35.959	26.719	135.8	.432	1510.9	145.9
150	14.896	35.954	26.732	134.8	.439	1510.7	150.9
155	14.795	35.945	26.747	133.4	.446	1510.4	155.9
160	14.720	35.941	26.760	132.3	.452	1510.3	160.9
165	14.700	35.943	26.766	131.9	.459	1510.3	165.9
170	14.547	35.929	26.789	129.9	.465	1509.9	170.9
175	14.382	35.909	26.809	128.0	.472	1509.4	175.9
180	14.105	35.872	26.840	125.2	.478	1508.5	180.9
185	14.071	35.863	26.840	125.3	.485	1508.5	185.9
190	14.066	35.861	26.839	125.5	.491	1508.6	190.9
195	13.968	35.846	26.849	124.7	.497	1508.3	195.9
200	13.886	35.830	26.854	124.4	.503	1508.1	200.9
225	13.462	35.755	26.884	122.0	.534	1507.0	225.9
250	13.152	35.720	26.921	119.1	.564	1506.4	250.9
275	12.684	35.643	26.955	116.3	.595	1505.1	276.9
300	12.247	35.584	26.996	113.0	.623	1504.0	301.9
325	11.776	35.515	27.033	109.8	.651	1502.7	326.9
350	11.251	35.434	27.068	106.8	.678	1501.1	351.9
375	10.861	35.393	27.107	103.4	.705	1500.1	376.9
400	10.114	35.287	27.157	98.7	.731	1497.7	402.9
425	9.465	35.212	27.208	93.9	.755	1495.7	427.9
450	8.788	35.140	27.262	88.7	.778	1493.5	452.9
475	8.417	35.098	27.288	86.5	.800	1492.4	477.9
500	7.662	35.071	27.380	77.4	.821	1489.9	503.9
600	5.200	35.025	27.672	48.6	.884	1481.7	603.9
700	4.826	35.039	27.727	44.1	.931	1481.9	705.8
800	4.421	35.003	27.744	42.9	.975	1481.8	806.8
900	4.275	34.995	27.753	42.7	1.018	1482.9	907.9
1000	4.257	35.006	27.764	42.7	1.062	1484.5	1008.9
1100	3.996	34.979	27.770	42.4	1.104	1485.0	1109.9
1200	3.924	34.981	27.779	42.3	1.147	1486.4	1210.9
1300	3.889	34.981	27.783	42.7	1.190	1487.9	1311.9
1400	3.819	34.983	27.792	42.6	1.234	1489.3	1413.9
1500	3.721	34.986	27.804	42.0	1.276	1490.6	1514.9
1600	3.731	34.988	27.805	42.8	1.320	1492.3	1616.9
1700	3.596	34.987	27.817	41.9	1.362	1493.4	1717.9
1800	3.515	34.986	27.825	41.7	1.405	1494.8	1819.9
1900	3.530	34.988	27.825	42.6	1.448	1496.5	1920.9
1911	3.526	34.988	27.825	42.6	1.452	1496.7	1931.9

DTH	TEM	SAL	DXG	PHOS	NITR	SIL	NO2	AM
30	26.310	36.220	4.69					
53	23.460	36.194	4.86					
1009	4.100	34.979	5.94					
1818		35.298	4.82					

SIGMA-T

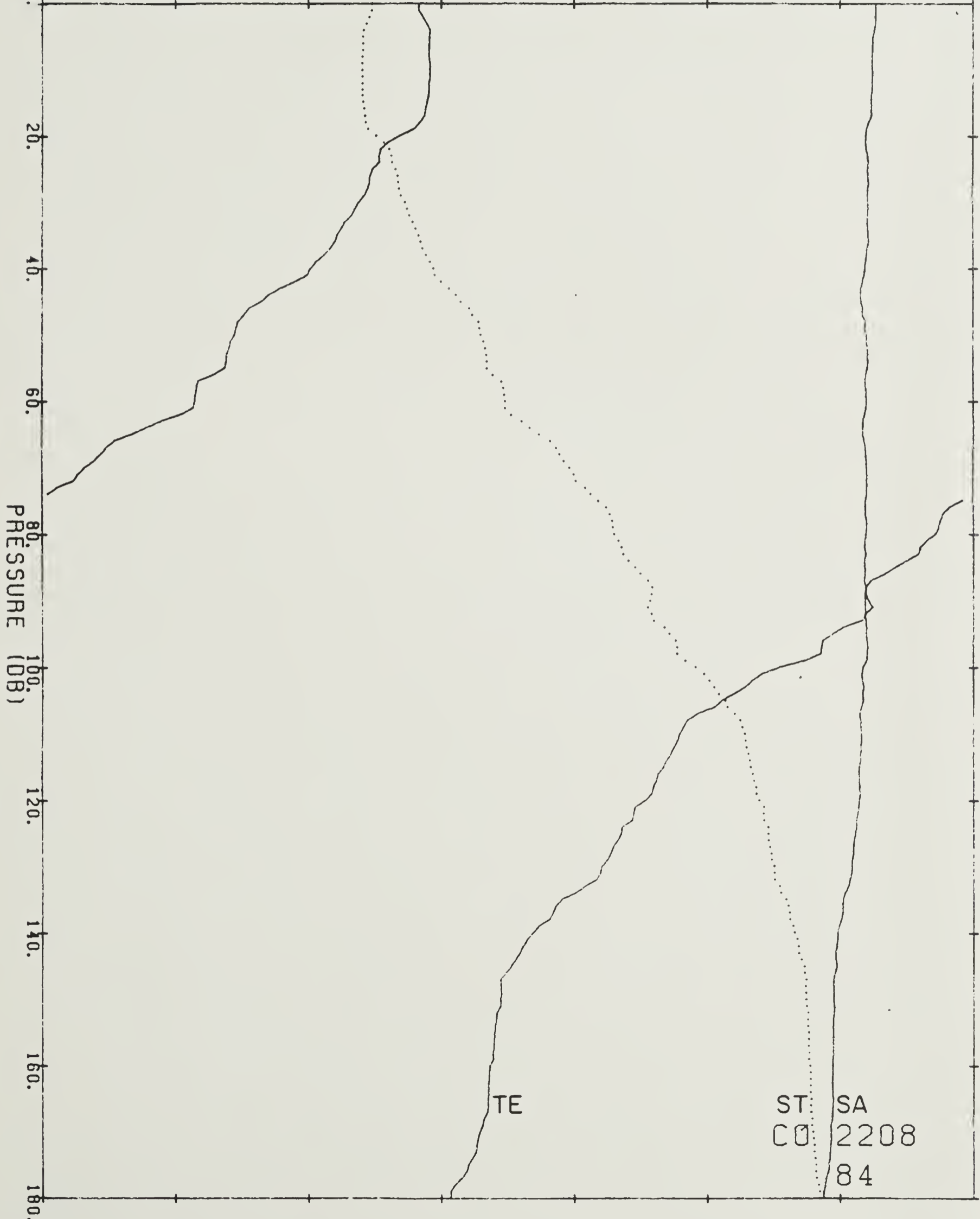
21. 22. 23. 24. 25. 26. 27. 28.

SALINITY (PPT)

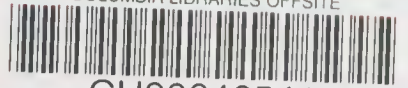
30. 31. 32. 33. 34. 35. 36. 37.

TEMPERATURE (DEG C)

8. 10. 12. 14. 16. 18. 20. 22.



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