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STD MEASUREMENTS OFF WASHINGTON
AND VANCOUVER ISLAND DURING SEPTEMBER 1973

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Seattle, Washington
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DURING SEPTEMBER 1973

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Summaries of STD measurements recorded during September 1973 in the northeast Pacific near Washington and Vancouver Island are presented as vertical profiles of temperature, salinity, and sigma-t and as tables of temperature, salinity, sigma-t, and dynamic height anomaly at selected depths. Meteorological observations associated with each STD cast are included.

1. INTRODUCTION

During September 1973, 150 vertical profiles of temperature and salinity were measured from the NOAA research vessel *Oceanographer* (OSS-01) in the northeast Pacific near Washington and Vancouver Island. Station positions (fig. 1), which were determined by visual, radar, satellite navigation, and Loran A, were accurate to about 1 km.

The STD measurements were made with a Hytech Model 9006 Salinity/Temperature/Depth/Sound Velocity profiling system and were recorded on 7-track magnetic tape by a Bissett-Berman Model 8114A Digital Data Logger (DDL). The data were recorded only during the descent of the instrument at a rate of one scan every 0.2 seconds. The descent rate was approximately 15 m/min in the upper 200 m, 30 m/min from 200 to 500 m, and 45 m/min below 500 m.

The processing and presentation of the data generally follow the procedures and formats developed in previous reports (Halpern, 1972; Halpern and Holbrook, 1973; Holbrook and Halpern, 1974).

2. DATA PROCESSING

The STD data processing consisted of the following steps. First, engineering units were computed from the recorded binary numbers using the following equations furnished by the manufacturer:

Recorded depth (m):

$$D = \left[\frac{4.75 \times 10^8}{N_D + 32768} - 9712 \right] \left[\frac{2000}{1576} \right]$$

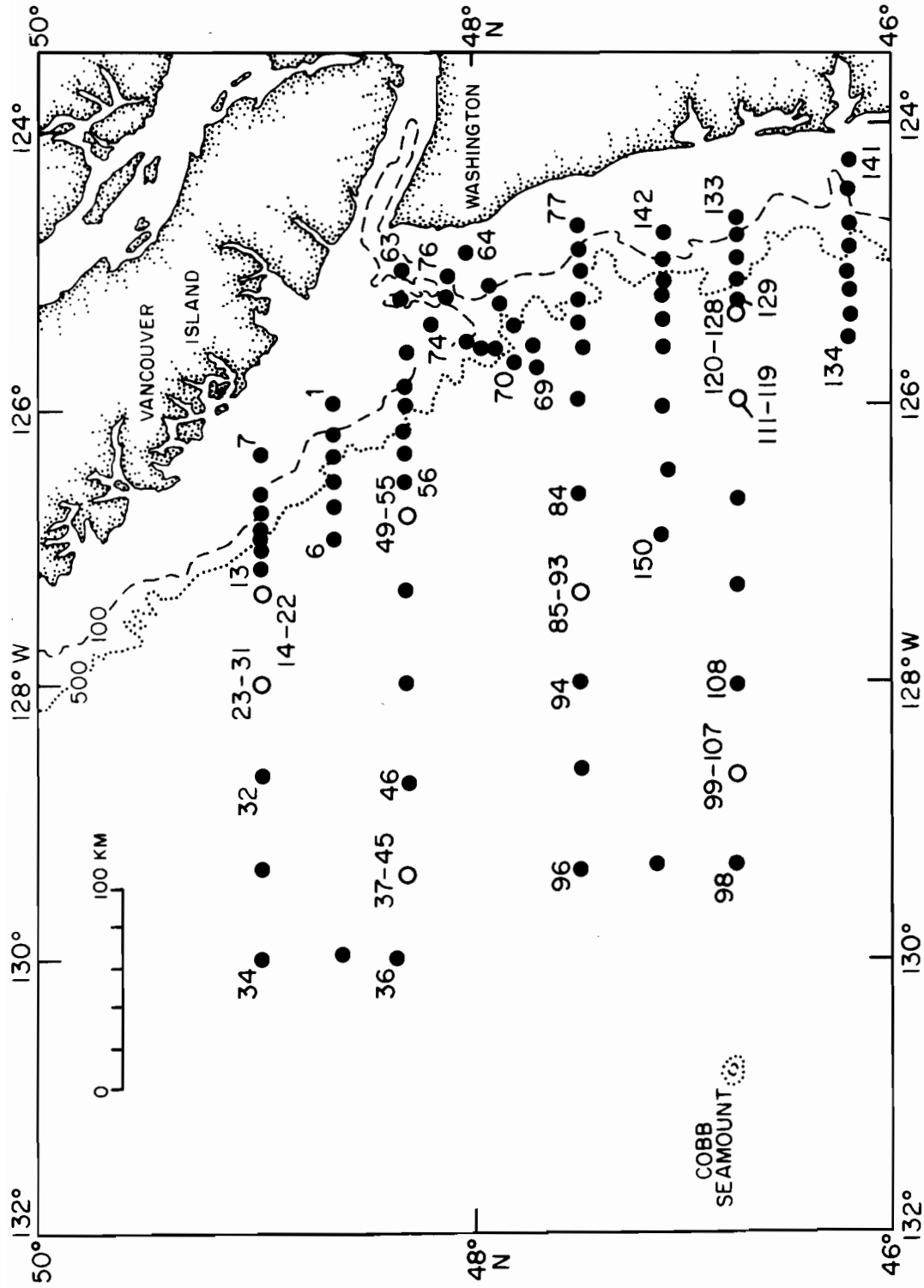


Figure 1. Location chart showing the STD station positions obtained during September 1973. ●'s identify single-cast stations and ○'s identify multicast stations.

Recorded salinity (‰):

$$S = \left[\frac{3.15 \times 10^8}{N_S + 32768} - 4995 \right] \left[\frac{10}{2906} \right] + 28.00$$

Recorded temperature (°C):

$$T = \left[\frac{3.5 \times 10^7}{N_T} - 2127 \right] \left[\frac{37}{2066} \right] - 2.00$$

N_D , N_S , and N_T are the binary numbers recorded on magnetic tape for depth, salinity, and temperature.

Second, the data in each cast were arranged into a monotonically increasing function of depth by dropping scans with depth values less than preceding scan depth values. Third, temperature and salinity values recorded at the same depth were averaged together. Fourth, temperature, salinity, and depth corrections were applied. The corrections were based upon comparison of Nansen bottle and STD frequency data taken on every fifth cast (fig. 2 and 3):

Corrected depth (m):

$$D_C = (0.9913) (D)$$

Corrected salinity (‰):

$$S_C = S + 0.023 - (2.2 \times 10^{-5}) (D)$$

Corrected temperature (°C):

$$T_C = T + 0.02$$

Fifth, average values of temperature and salinity were computed at 1-meter intervals; e.g., the average temperature at 90 m was equal to the arithmetic mean of measurements between 89.5 and 90.5 m. Sixth, scans with anomalous temperature or salinity values, which were generally associated with regions of strong vertical gradients, were removed from the 1-meter averaged data when the temperature or salinity gradient on both sides of the scan changed sign and exceeded a critical value. The critical gradients were 0.05°C/m and 0.025 ‰/m for depth values between 0 and 200 m and 0.01°C/m and 0.01 ‰/m for depth values greater than 200 m. Finally, the corrected and edited 1-meter averaged temperature, salinity, and sigma-t values were plotted versus depth.

The temperature and salinity corrections (fig. 2 and 3) were determined using the following technique. A Nansen bottle containing two protected and one unprotected thermometers was placed on the cable approximately 6 m above the STD instrument on 26 of the STD lowerings. After soaking for 6 minutes at calibration depth, the Nansen bottle was tripped and the STD was raised 6 m. Frequencies to the nearest tenth were measured

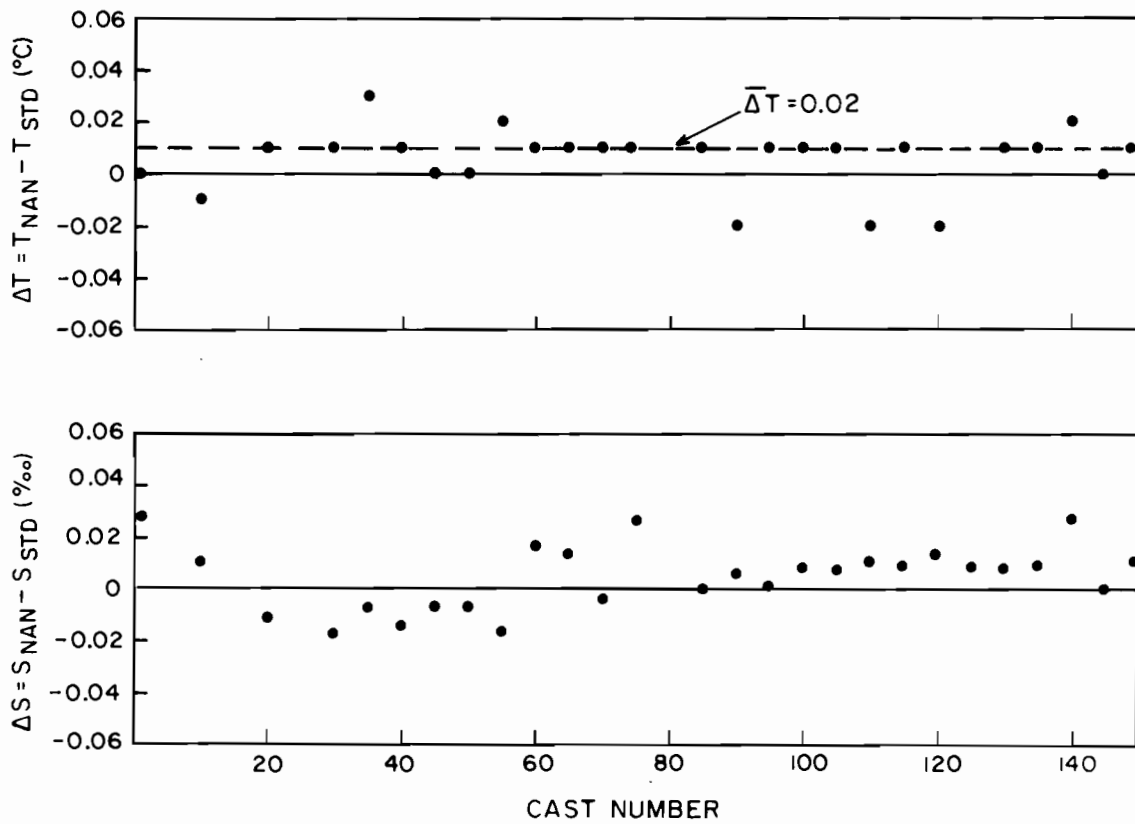


Figure 2. Temperature and salinity comparisons between Nansen bottle and STD data versus cast number.

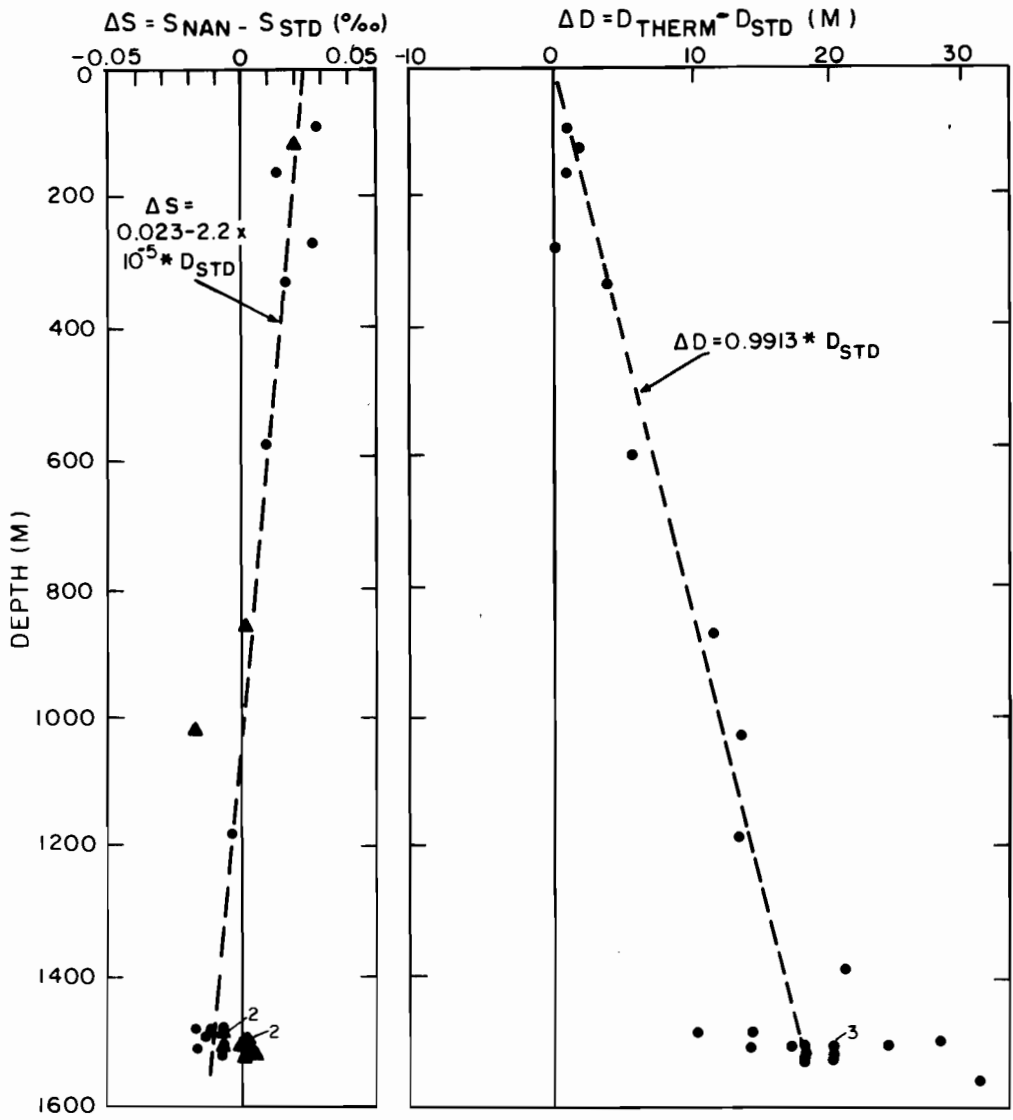


Figure 3. Salinity and depth comparisons between Nansen bottle and STD data versus depth. Both salinity and depth were corrected by the indicated depth dependent function.

from the temperature, salinity, and depth sensors. Comparisons were made between temperatures measured by the protected thermometers and the STD, between salinities determined from the Nansen bottle sample using a Beckman Model R56B salinometer and the STD, and between depths computed from protected and unprotected thermometers (thermometric depth) and the STD. A linear depth dependent correction was determined for the salinity and depth sensors (fig. 3).

3. DATA PRESENTATION

The reduced data from each STD cast are summarized by a computer-generated plot containing the vertical profiles of temperature, salinity, and sigma-t and by a table of selected values of temperature, salinity, sigma-t, and dynamic height anomaly. The shallowest and deepest 1-meter averaged values of each set of STD measurements are shown in the table. When the uppermost depth was not equal to 0 m, surface values of temperature and salinity were computed from a least-squares linear fit of the data recorded above 7 m below the surface. Sigma-t and the anomaly of specific volume were computed from equations developed by Ekman and Knudsen (Sweers, 1971). Depth in meters was defined as equivalent to pressure in decibars. The trapezoidal method of integration was used to calculate the anomaly of dynamic depth. Tables 1 to 6 contain the abbreviations and units used to describe the STD data summary.

4. ACKNOWLEDGMENTS

I thank Ron Reed who was Chief Scientist and Dorothy Klett who very ably assisted in the data processing. Dr. Halpern was most helpful in establishing formats and data processing procedures. The generous support of Captain W. D. Barbee and the officers and crew of the NOAA ship *Oceanographer* is greatly appreciated.

Table 1. Abbreviations and Units Used to Describe
Each Set of STD Measurements

SALINITY	Salinity, parts per thousand (‰)
TEMPERATURE	Temperature, degrees Celsius (°C)
CAST RP-7-0C-007	STD measurement station 007 made from the research vessel <i>Oceanographer</i> on cruise RP-7
DATE	Day, month, year
TIME	Hours and minutes, Greenwich Mean Time (GMT)
LAT	Latitude, degrees and minutes north
LONG	Longitude, degrees and minutes west
WEATHER	Present weather conditions (see table 2)
SEA STATE	Present sea state conditions (see table 5)
BAROMETER	Sea level atmospheric pressure, millibars (mb) over 1000 mb
WIND DIR	Wind direction, degrees True from which the wind blows
SPD	Wind speed, knots
VISIBILITY	Visibility (see table 6)
CLOUD	Cloud type (see table 3)
AMOUNT	Amount of cloud cover (see table 4)
DRY	Dry air temperature, degrees Celsius
WET	Wet bulb temperature, degrees Celsius
DEPTH	Depth to the bottom, meters

Table 2. Weather Condition Code Used to Describe Each Set of STD Measurements

Code	Weather condition
0	Clear (no cloud)
1	Partly cloudy
2	Continuous layer(s) of cloud(s)
3	Sandstorm, duststorm, or blowing snow
4	Fog, thick dust, or haze
5	Drizzle
6	Rain
7	Snow, or rain and snow mixed
8	Shower(s)
9	Thunderstorms

Table 3. Cloud Type Code Used to Describe Each Set of STD Measurements

Code	Cloud type
0	Cirrus
1	Cirrocumulus
2	Cirrostratus
3	Alto cumulus
4	Altostratus
5	Nimbostratus
6	Stratocumulus
7	Stratus
8	Cumulus
9	Cumulonimbus
X	Cloud not visible

Table 4. Cloud Amount Code Used to Describe Each Set of STD Measurements

Code	Cloud amount
0	0
1	1/10 or less, but not zero
2	2/10 - 3/10
3	4/10
4	5/10
5	6/10
6	7/10 - 8/10
7	9/10 or more, but not 10/10
8	10/10
9	Sky obscured or not determined

Table 5. Sea State Code Used to Describe Each Set of STD Measurements

Code	Height (m)	Description
0	0	Calm-glassy
1	0 - 0.1	Calm-rippled
2	0.1 - 0.5	Smooth-wavelet
3	0.5 - 1.25	Slight
4	1.25 - 2.5	Moderate
5	2.5 - 4	Rough
6	4 - 6	Very rough
7	6 - 9	High
8	9 - 14	Very high
9	> 14	Phenomenal

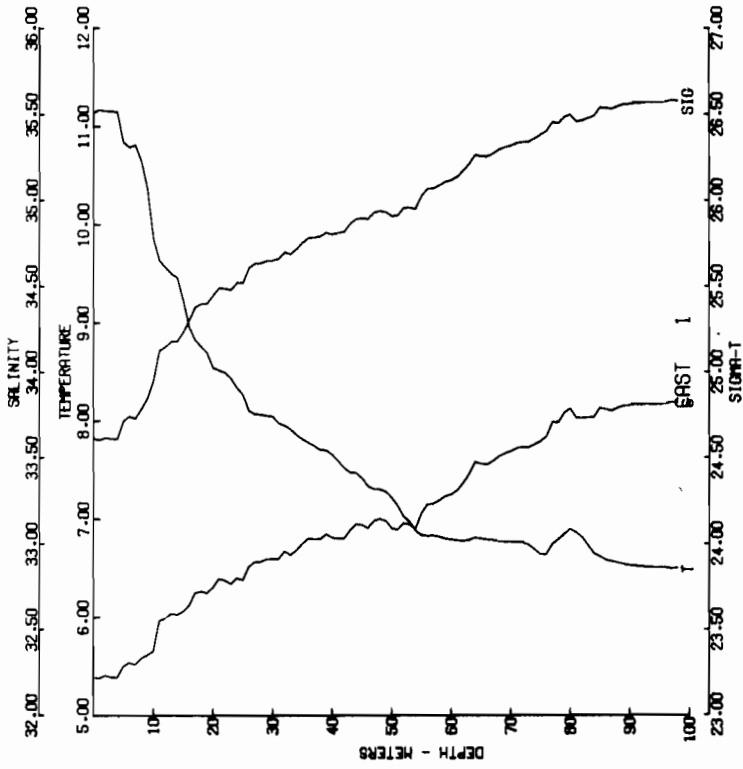
Table 6. Visibility Code Used to Describe
Each Set of STD Measurements

Code	
0	< 50 m
1	50 - 200 m
2	200 - 500 m
3	500 - 1,000 m
4	1 - 2 km
5	2 - 4 km
6	4 - 10 km
7	10 - 20 km
8	20 - 50 km
9	50 km or more

5. REFERENCES

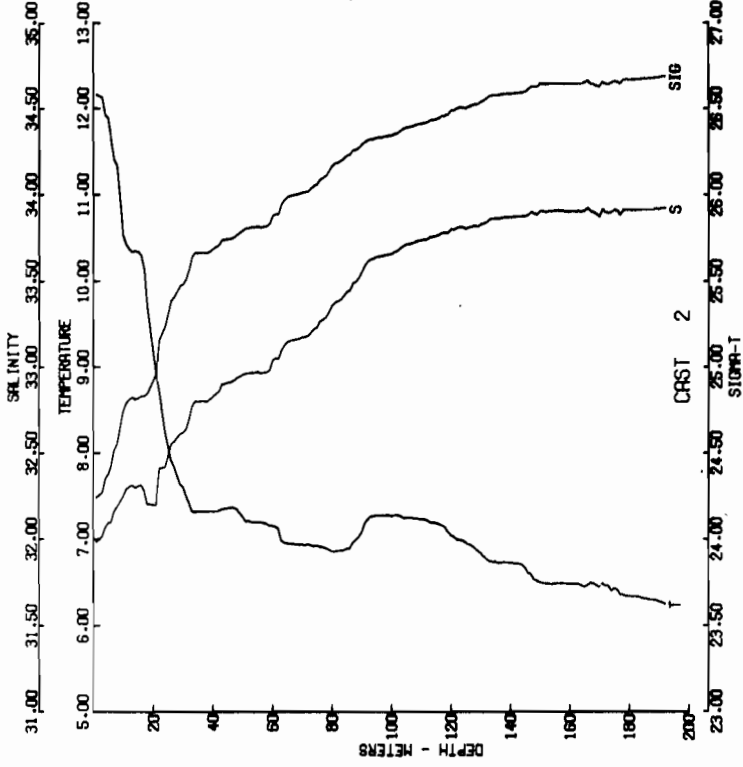
- Halpern, D. (1972), STD observations in the northeast Pacific near 47°N, 128°W (August/September 1971), NOAA Technical Memorandum ERL POL-2, Pacific Oceanographic Laboratory, Seattle, Wash., 26 pp.
- Halpern, D., and J. R. Holbrook (1973), STD measurements off the Oregon coast, July/August 1972, CUEA Data Report 4, Department of Oceanography, University of Washington, Seattle, 381 pp.
- Holbrook, J. R., and Halpern, D. (1974), STD measurements off the Oregon Coast, July/August 1973, CUEA Data Report 12, Department of Oceanography, University of Washington, Seattle, 397 pp.
- Sweers, H. E., (1971), A comparison of methods used to calculate sigma-t, specific volume anomaly and dynamic height, Marine Technology Society Journal, 5(3): 7-26.

STD STATION DATA: CASTS 1-150



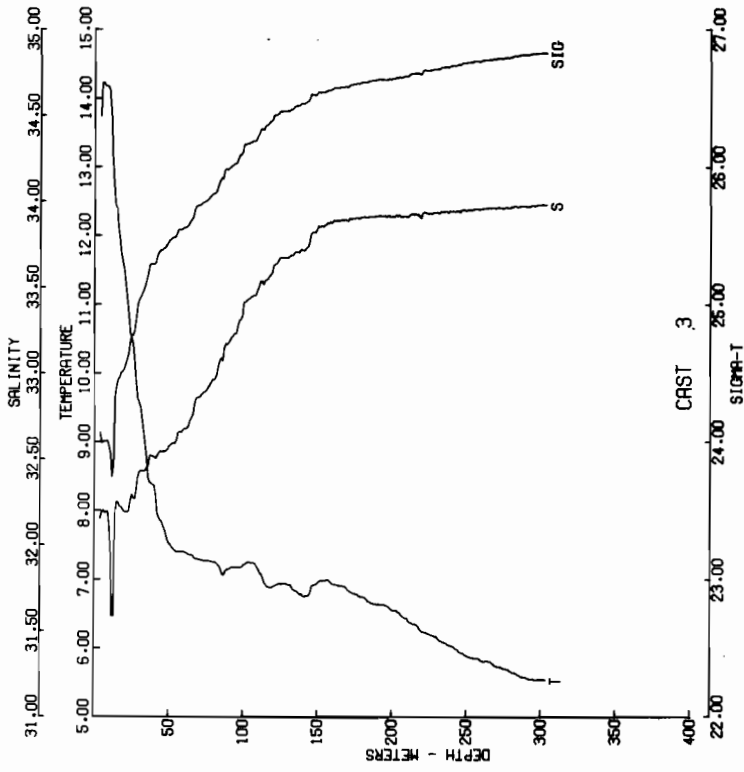
CAST RP-7-GC-001 DATE 07 SEP 73 TIME 0500 GMT
 BALANCE 135.2 T SENSITIVITY 3
 SAMPLE NO 12.2 MET 12.2 DEPTH 0103 M
 CLOUD X AMOUNT 9 DRY 13.1 MET 12.2 DEPTH 0103 M

DEPTH (M)	TEMPERATURE (C)	SALINITY (PPT)	SIGMA-T	DELTA-D (DTN M)
0	11.14	32.26	24.91	0.000
1	11.09	32.26	24.91	-.033
2	10.98	32.26	24.91	-.077
3	10.85	32.26	24.91	-.133
4	10.70	32.26	24.91	-.198
5	10.54	32.26	24.91	-.272
6	10.37	32.26	24.91	-.352
7	10.19	32.26	24.91	-.437
8	10.00	32.26	24.91	-.526
9	9.80	32.26	24.91	-.618
10	9.59	32.26	24.91	-.714
15	9.27	32.26	24.91	-.814
20	8.94	32.26	24.91	-.917
25	8.60	32.26	24.91	-1.022
30	8.25	32.26	24.91	-1.129
35	7.90	32.26	24.91	-1.238
40	7.54	32.26	24.91	-1.348
45	7.18	32.26	24.91	-1.459
50	6.81	32.26	24.91	-1.572
55	6.44	32.26	24.91	-1.686
60	6.07	32.26	24.91	-1.801
65	5.70	32.26	24.91	-1.917
70	5.33	32.26	24.91	-2.034
75	4.96	32.26	24.91	-2.152
80	4.59	32.26	24.91	-2.271
85	4.22	32.26	24.91	-2.391
90	3.85	32.26	24.91	-2.512
95	3.48	32.26	24.91	-2.634
100	3.11	32.26	24.91	-2.757



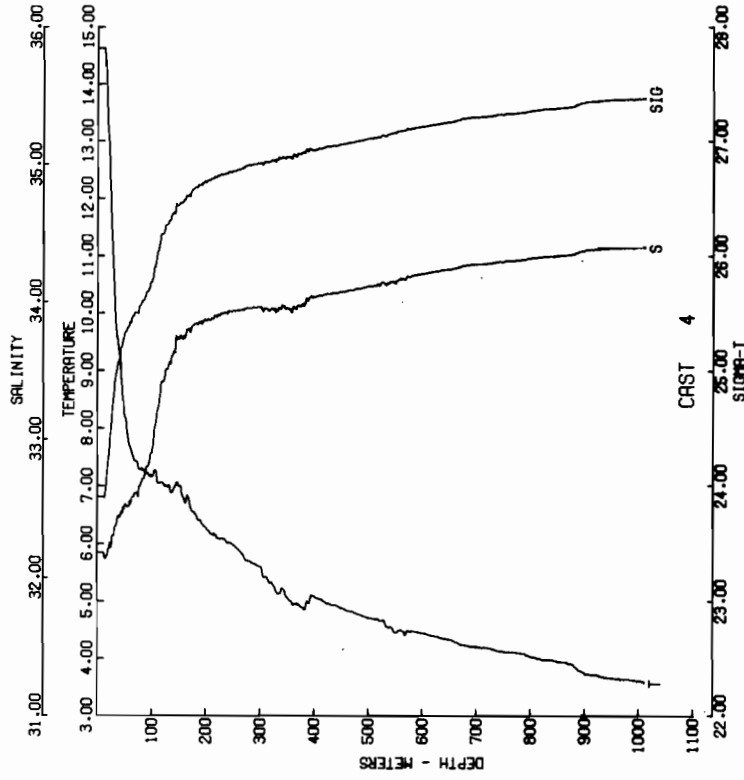
CAST RP-7-GC-002 DATE 07 SEP 73 TIME 0632 GMT
 BALANCE 135.2 T SENSITIVITY 3
 SAMPLE NO 12.4 MET 12.4 DEPTH 0104 M
 CLOUD X AMOUNT 2 DRY 13.5 MET 12.4 DEPTH 0104 M

DEPTH (M)	TEMPERATURE (C)	SALINITY (PPT)	SIGMA-T	DELTA-D
0	12.41	31.99	24.16	0.000
1	12.35	31.99	24.16	-.035
2	12.28	31.99	24.16	-.071
3	12.20	31.99	24.16	-.107
4	12.11	31.99	24.16	-.143
5	12.02	31.99	24.16	-.179
6	11.93	31.99	24.16	-.215
7	11.84	31.99	24.16	-.251
8	11.75	31.99	24.16	-.287
9	11.66	31.99	24.16	-.323
10	11.57	31.99	24.16	-.359
15	11.38	31.99	24.16	-.434
20	11.19	31.99	24.16	-.509
25	11.00	31.99	24.16	-.584
30	10.81	31.99	24.16	-.659
35	10.62	31.99	24.16	-.734
40	10.43	31.99	24.16	-.809
45	10.24	31.99	24.16	-.884
50	10.05	31.99	24.16	-.959
55	9.86	31.99	24.16	-1.034
60	9.67	31.99	24.16	-1.109
65	9.48	31.99	24.16	-1.184
70	9.29	31.99	24.16	-1.259
75	9.10	31.99	24.16	-1.334
80	8.91	31.99	24.16	-1.409
85	8.72	31.99	24.16	-1.484
90	8.53	31.99	24.16	-1.559
95	8.34	31.99	24.16	-1.634
100	8.15	31.99	24.16	-1.709
105	7.96	31.99	24.16	-1.784
110	7.77	31.99	24.16	-1.859
115	7.58	31.99	24.16	-1.934
120	7.39	31.99	24.16	-2.009
125	7.20	31.99	24.16	-2.084
130	7.01	31.99	24.16	-2.159
135	6.82	31.99	24.16	-2.234
140	6.63	31.99	24.16	-2.309
145	6.44	31.99	24.16	-2.384
150	6.25	31.99	24.16	-2.459
155	6.06	31.99	24.16	-2.534
160	5.87	31.99	24.16	-2.609
165	5.68	31.99	24.16	-2.684
170	5.49	31.99	24.16	-2.759
175	5.30	31.99	24.16	-2.834
180	5.11	31.99	24.16	-2.909
185	4.92	31.99	24.16	-2.984
190	4.73	31.99	24.16	-3.059
195	4.54	31.99	24.16	-3.134
200	4.35	31.99	24.16	-3.209



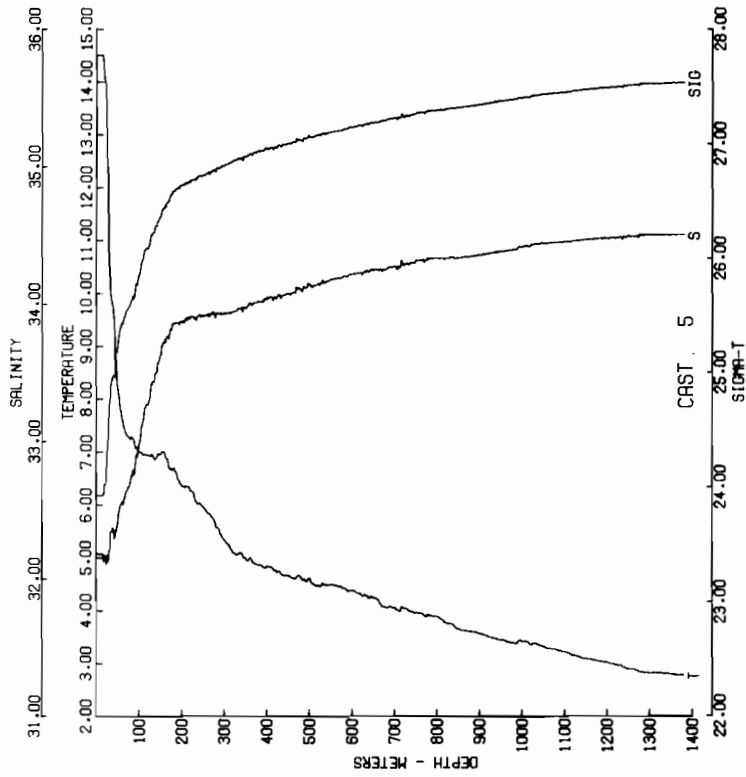
CAST 08-7-00-001 DATE 07 SEP 73 TIME 0756 GMT
 LAT 40 44 00 LONG 126 29 00 MET 11.0 VIS 1000 M
 BAROMETER 10 WIND DIR 280 T SPD 10 KTS VISIBLTY 6
 CLOUD 3 AMOUNT 2 DRY 1.2 MET 13.0 DEPTH 0675 M

DEPTH (M)	TEMPERATURE (C)	SALINITY (PPT)	SIGMA-T	DELTA-D (DBN M)
0	13.72	32.50	22.60	0.000
5	13.72	32.50	22.60	0.000
10	13.72	32.50	22.60	0.000
20	13.72	32.50	22.60	0.000
30	13.72	32.50	22.60	0.000
40	13.72	32.50	22.60	0.000
50	13.72	32.50	22.60	0.000
60	13.72	32.50	22.60	0.000
70	13.72	32.50	22.60	0.000
80	13.72	32.50	22.60	0.000
90	13.72	32.50	22.60	0.000
100	13.72	32.50	22.60	0.000
110	13.72	32.50	22.60	0.000
120	13.72	32.50	22.60	0.000
130	13.72	32.50	22.60	0.000
140	13.72	32.50	22.60	0.000
150	13.72	32.50	22.60	0.000
160	13.72	32.50	22.60	0.000
170	13.72	32.50	22.60	0.000
180	13.72	32.50	22.60	0.000
190	13.72	32.50	22.60	0.000
200	13.72	32.50	22.60	0.000
210	13.72	32.50	22.60	0.000
220	13.72	32.50	22.60	0.000
230	13.72	32.50	22.60	0.000
240	13.72	32.50	22.60	0.000
250	13.72	32.50	22.60	0.000
260	13.72	32.50	22.60	0.000
270	13.72	32.50	22.60	0.000



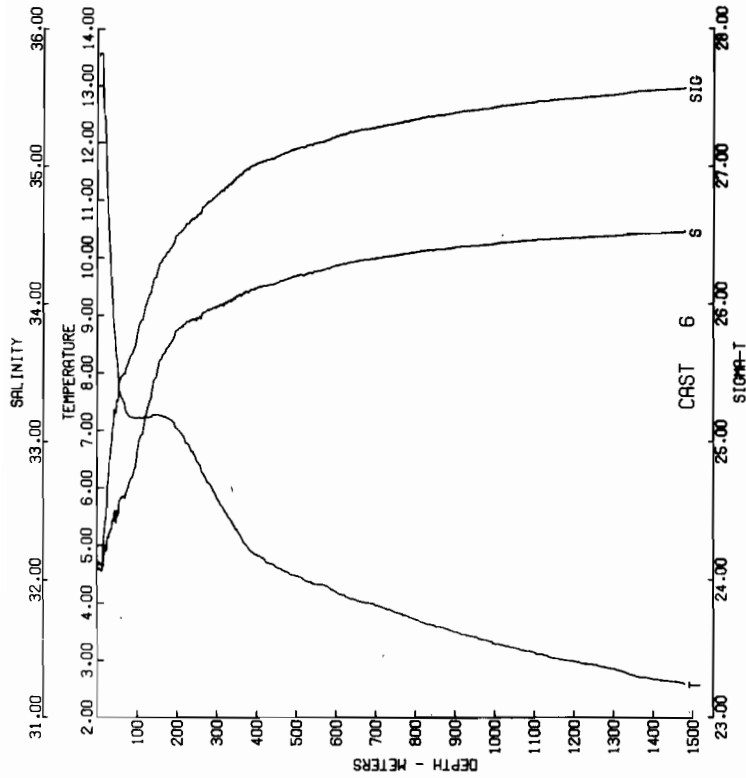
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 LAT 40 44 00 LONG 126 29 00 MET 11.0 VIS 1000 M
 BAROMETER 10 WIND DIR 280 T SPD 10 KTS VISIBLTY 6
 CLOUD 3 AMOUNT 2 DRY 1.2 MET 13.0 DEPTH 1014 M

DEPTH (M)	TEMPERATURE (C)	SALINITY (PPT)	SIGMA-T	DELTA-D (DBN M)
0	14.52	33.00	25.00	0.000
10	14.52	33.00	25.00	0.000
20	14.52	33.00	25.00	0.000
30	14.52	33.00	25.00	0.000
40	14.52	33.00	25.00	0.000
50	14.52	33.00	25.00	0.000
60	14.52	33.00	25.00	0.000
70	14.52	33.00	25.00	0.000
80	14.52	33.00	25.00	0.000
90	14.52	33.00	25.00	0.000
100	14.52	33.00	25.00	0.000
110	14.52	33.00	25.00	0.000
120	14.52	33.00	25.00	0.000
130	14.52	33.00	25.00	0.000
140	14.52	33.00	25.00	0.000
150	14.52	33.00	25.00	0.000
160	14.52	33.00	25.00	0.000
170	14.52	33.00	25.00	0.000
180	14.52	33.00	25.00	0.000
190	14.52	33.00	25.00	0.000
200	14.52	33.00	25.00	0.000
210	14.52	33.00	25.00	0.000
220	14.52	33.00	25.00	0.000
230	14.52	33.00	25.00	0.000
240	14.52	33.00	25.00	0.000
250	14.52	33.00	25.00	0.000
260	14.52	33.00	25.00	0.000
270	14.52	33.00	25.00	0.000
280	14.52	33.00	25.00	0.000



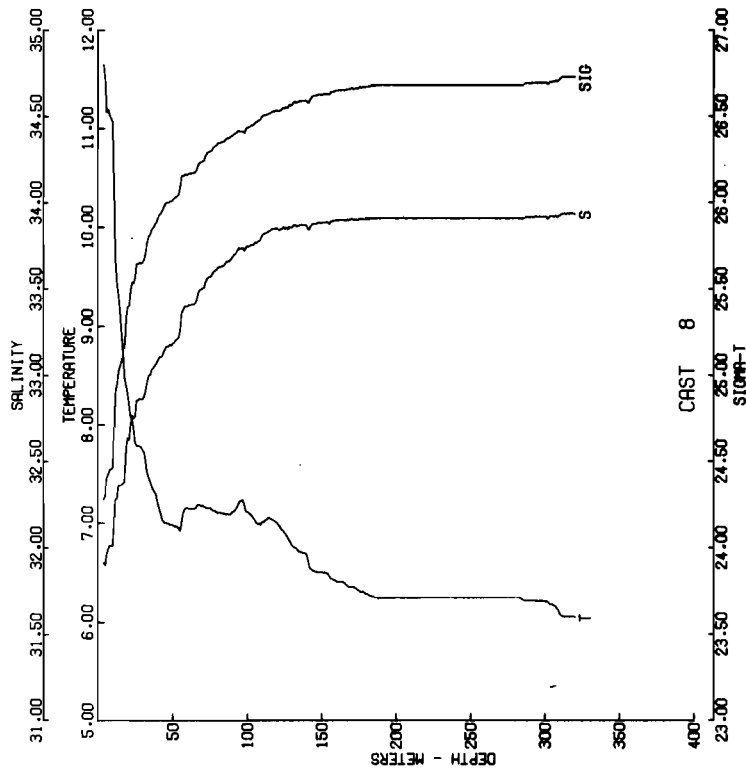
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 LAT 48 39.6M LONG 126 43.3M WEATHER 1 SEA STATE 3
 BAROMETER 28. WIND DIR 308 T SPD 18 KT VISIBILITY 6
 CLOUD X AMOUNT 9 DRY 14.3 MET 11.8 DEPTH 1408 M

DEPTH (M)	TEMPERATURE (C)	SALINITY (PPT)	SIGMA-T	DELTA-D (DYN M)
0	14.51	32.10	23.93	0.000
25	14.51	32.06	23.93	.020
50	14.51	32.06	23.93	.040
75	14.51	32.07	23.93	.060
100	14.51	32.09	23.93	.080
125	14.51	32.11	23.93	.100
150	14.51	32.13	23.93	.120
175	14.51	32.15	23.93	.140
200	14.51	32.17	23.93	.160
225	14.51	32.19	23.93	.180
250	14.51	32.21	23.93	.200
275	14.51	32.23	23.93	.220
300	14.51	32.25	23.93	.240
325	14.51	32.27	23.93	.260
350	14.51	32.29	23.93	.280
375	14.51	32.31	23.93	.300
400	14.51	32.33	23.93	.320
425	14.51	32.35	23.93	.340
450	14.51	32.37	23.93	.360
475	14.51	32.39	23.93	.380
500	14.51	32.41	23.93	.400
525	14.51	32.43	23.93	.420
550	14.51	32.45	23.93	.440
575	14.51	32.47	23.93	.460
600	14.51	32.49	23.93	.480
625	14.51	32.51	23.93	.500
650	14.51	32.53	23.93	.520
675	14.51	32.55	23.93	.540
700	14.51	32.57	23.93	.560
725	14.51	32.59	23.93	.580
750	14.51	32.61	23.93	.600
775	14.51	32.63	23.93	.620
800	14.51	32.65	23.93	.640
825	14.51	32.67	23.93	.660
850	14.51	32.69	23.93	.680
875	14.51	32.71	23.93	.700
900	14.51	32.73	23.93	.720
925	14.51	32.75	23.93	.740
950	14.51	32.77	23.93	.760
975	14.51	32.79	23.93	.780
1000	14.51	32.81	23.93	.800
1025	14.51	32.83	23.93	.820
1050	14.51	32.85	23.93	.840
1075	14.51	32.87	23.93	.860
1100	14.51	32.89	23.93	.880
1125	14.51	32.91	23.93	.900
1150	14.51	32.93	23.93	.920
1175	14.51	32.95	23.93	.940
1200	14.51	32.97	23.93	.960
1225	14.51	32.99	23.93	.980
1250	14.51	33.01	23.93	1.000
1275	14.51	33.03	23.93	1.020
1300	14.51	33.05	23.93	1.040
1325	14.51	33.07	23.93	1.060
1350	14.51	33.09	23.93	1.080
1375	14.51	33.11	23.93	1.100
1400	14.51	33.13	23.93	1.120
1425	14.51	33.15	23.93	1.140
1450	14.51	33.17	23.93	1.160



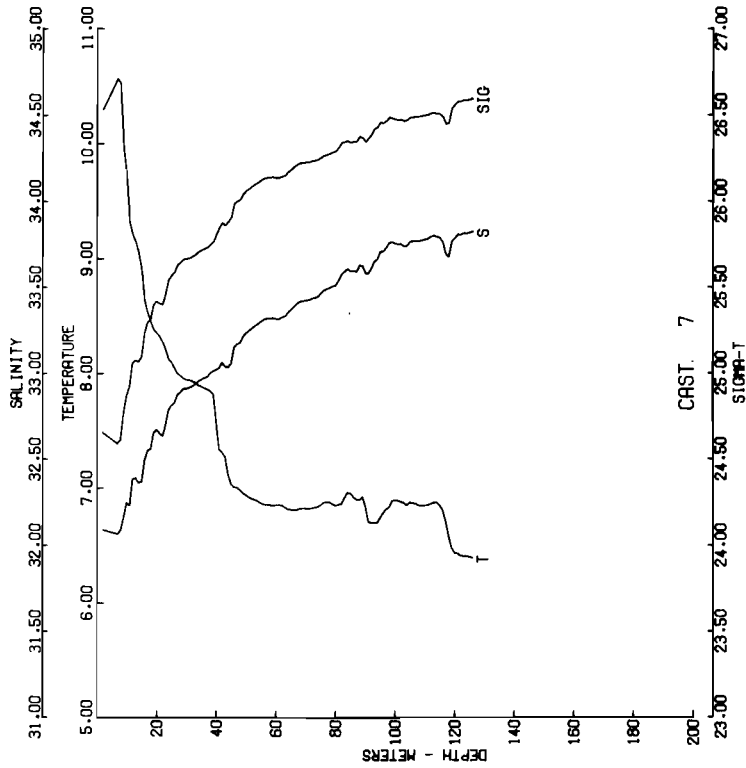
CAST RP-7-00-006 DATE 07 SEP 73 TIME 1326 GMT
 LAT 48 39.6M LONG 126 57.6M WEATHER 2 SEA STATE 2
 BAROMETER 28. WIND DIR 308 T SPD 16 KT VISIBILITY 7
 CLOUD 8 AMOUNT 1 DRY 13.9 MET 12.5 DEPTH 2841 M

DEPTH (M)	TEMPERATURE (C)	SALINITY (PPT)	SIGMA-T	DELTA-D (DYN M)
0	13.51	32.11	24.00	0.000
25	13.51	32.13	24.00	.089
50	13.51	32.15	24.00	.178
75	13.51	32.17	24.00	.267
100	13.51	32.19	24.00	.356
125	13.51	32.21	24.00	.445
150	13.51	32.23	24.00	.534
175	13.51	32.25	24.00	.623
200	13.51	32.27	24.00	.712
225	13.51	32.29	24.00	.801
250	13.51	32.31	24.00	.890
275	13.51	32.33	24.00	.979
300	13.51	32.35	24.00	1.068
325	13.51	32.37	24.00	1.157
350	13.51	32.39	24.00	1.246
375	13.51	32.41	24.00	1.335
400	13.51	32.43	24.00	1.424
425	13.51	32.45	24.00	1.513
450	13.51	32.47	24.00	1.602
475	13.51	32.49	24.00	1.691
500	13.51	32.51	24.00	1.780
525	13.51	32.53	24.00	1.869
550	13.51	32.55	24.00	1.958
575	13.51	32.57	24.00	2.047
600	13.51	32.59	24.00	2.136
625	13.51	32.61	24.00	2.225
650	13.51	32.63	24.00	2.314
675	13.51	32.65	24.00	2.403
700	13.51	32.67	24.00	2.492
725	13.51	32.69	24.00	2.581
750	13.51	32.71	24.00	2.670
775	13.51	32.73	24.00	2.759
800	13.51	32.75	24.00	2.848
825	13.51	32.77	24.00	2.937
850	13.51	32.79	24.00	3.026
875	13.51	32.81	24.00	3.115
900	13.51	32.83	24.00	3.204
925	13.51	32.85	24.00	3.293
950	13.51	32.87	24.00	3.382
975	13.51	32.89	24.00	3.471
1000	13.51	32.91	24.00	3.560
1025	13.51	32.93	24.00	3.649
1050	13.51	32.95	24.00	3.738
1075	13.51	32.97	24.00	3.827
1100	13.51	32.99	24.00	3.916
1125	13.51	33.01	24.00	4.005
1150	13.51	33.03	24.00	4.094
1175	13.51	33.05	24.00	4.183
1200	13.51	33.07	24.00	4.272
1225	13.51	33.09	24.00	4.361
1250	13.51	33.11	24.00	4.450
1275	13.51	33.13	24.00	4.539
1300	13.51	33.15	24.00	4.628
1325	13.51	33.17	24.00	4.717
1350	13.51	33.19	24.00	4.806
1375	13.51	33.21	24.00	4.895
1400	13.51	33.23	24.00	4.984
1425	13.51	33.25	24.00	5.073
1450	13.51	33.27	24.00	5.162



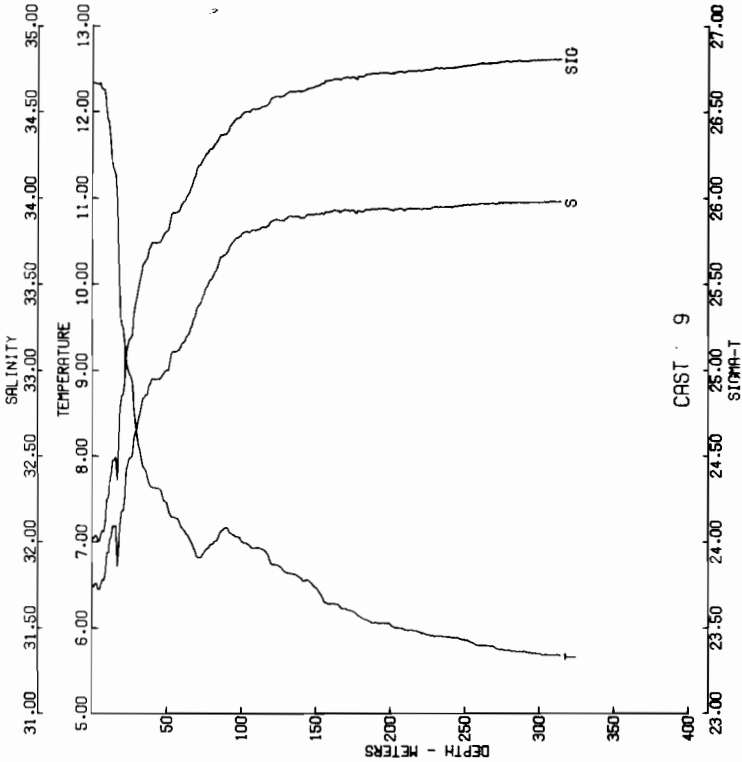
CAST RP-7-OC-088 DATE 07 SEP 73 TIME 1837 GMT
 LAT 42.00 N LONG 162.30 W WEAVER 8
 SURF WIND DIR 132 KTS SPEED 13.0 M
 CLOUD 0 AMOUNT 1 DAY 13.0 NET 13.0 DEPTH 4323 M

DEPTH (M)	TEMPERATURE (C)	SALINITY (PSY)	SIGMA-T (DBY)
0	10.00	32.00	24.60
10	10.00	32.00	24.60
20	10.00	32.00	24.60
30	10.00	32.00	24.60
40	10.00	32.00	24.60
50	10.00	32.00	24.60
60	10.00	32.00	24.60
70	10.00	32.00	24.60
80	10.00	32.00	24.60
90	10.00	32.00	24.60
100	10.00	32.00	24.60
110	10.00	32.00	24.60
120	10.00	32.00	24.60
130	10.00	32.00	24.60
140	10.00	32.00	24.60
150	10.00	32.00	24.60
160	10.00	32.00	24.60
170	10.00	32.00	24.60
180	10.00	32.00	24.60
190	10.00	32.00	24.60
200	10.00	32.00	24.60
210	10.00	32.00	24.60
220	10.00	32.00	24.60
230	10.00	32.00	24.60
240	10.00	32.00	24.60
250	10.00	32.00	24.60
260	10.00	32.00	24.60
270	10.00	32.00	24.60
280	10.00	32.00	24.60
290	10.00	32.00	24.60
300	10.00	32.00	24.60
310	10.00	32.00	24.60
320	10.00	32.00	24.60
330	10.00	32.00	24.60
340	10.00	32.00	24.60
350	10.00	32.00	24.60
360	10.00	32.00	24.60
370	10.00	32.00	24.60
380	10.00	32.00	24.60
390	10.00	32.00	24.60
400	10.00	32.00	24.60



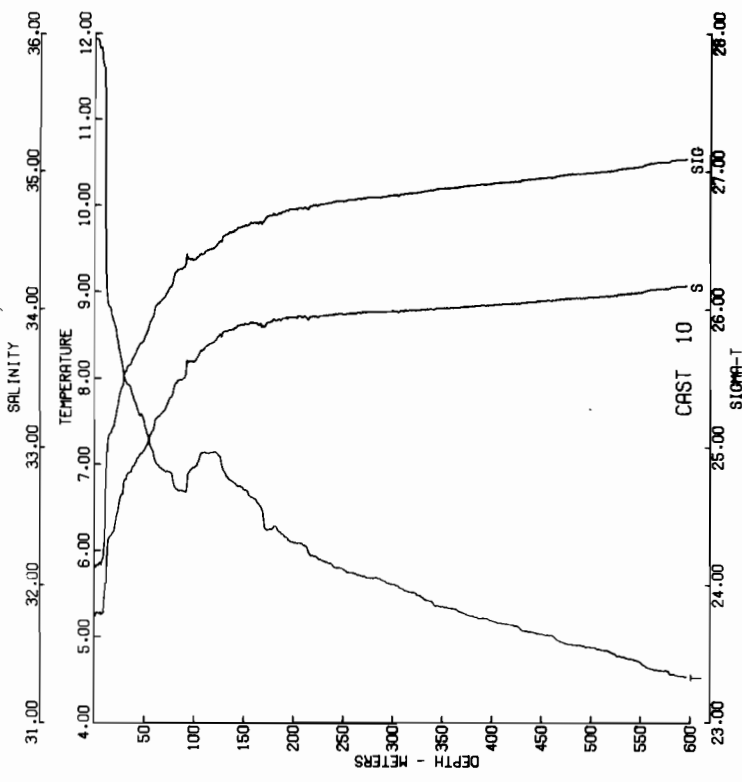
CAST RP-7-OC-087 DATE 07 SEP 73 TIME 1712 GMT
 LAT 42.00 N LONG 162.30 W WEAVER 4
 SURF WIND DIR 132 KTS SPEED 13.0 M
 CLOUD 0 AMOUNT 1 DAY 13.0 NET 13.0 DEPTH 0132 M

DEPTH (M)	TEMPERATURE (C)	SALINITY (PSY)	SIGMA-T (DBY)
0	10.00	32.00	24.60
10	10.00	32.00	24.60
20	10.00	32.00	24.60
30	10.00	32.00	24.60
40	10.00	32.00	24.60
50	10.00	32.00	24.60
60	10.00	32.00	24.60
70	10.00	32.00	24.60
80	10.00	32.00	24.60
90	10.00	32.00	24.60
100	10.00	32.00	24.60
110	10.00	32.00	24.60
120	10.00	32.00	24.60
130	10.00	32.00	24.60
140	10.00	32.00	24.60
150	10.00	32.00	24.60
160	10.00	32.00	24.60
170	10.00	32.00	24.60
180	10.00	32.00	24.60
190	10.00	32.00	24.60
200	10.00	32.00	24.60



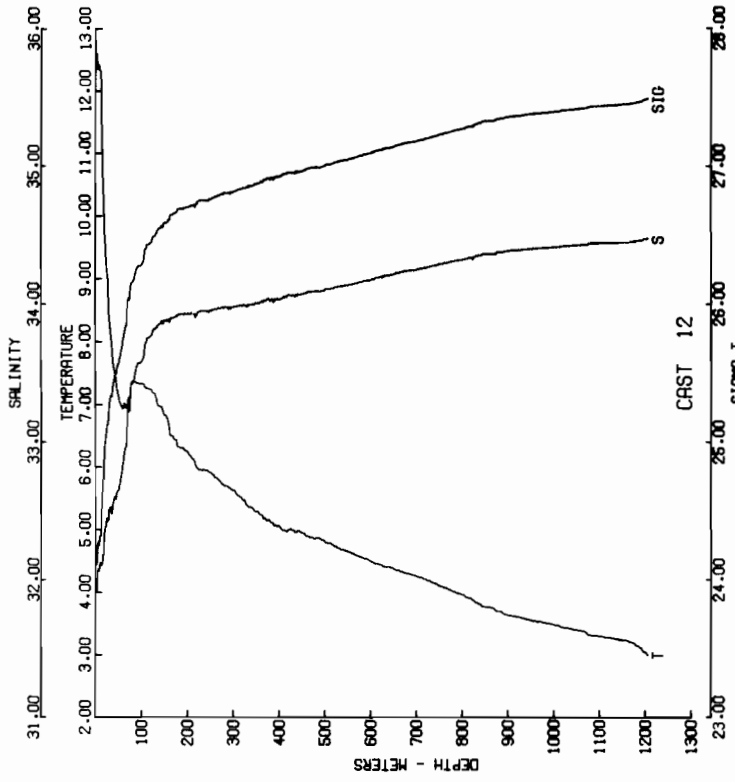
CAST RP-7-0C-009 DATE 07 SEP 73 TIME 1933 GMT
 LAT 49 00 2N LONG 126 46 4W WEATHER 1 SEA STATE 4
 BAROMETER 24 WIND DIR 295 T SPD 11 KT VISIBILITY 9
 CLOUD 0 AMOUNT 1 DRY 13.8 MET 12.6 MET DEPTH 0317 M

DEPTH (M)	TEMPERATURE (C)	SALINITY (PPT)	DELTA-SIGMA-T (DYN M)
0	12.39	31.73	0.00
1	12.34	31.72	0.01
5	11.72	31.72	0.01
10	11.33	31.70	0.05
25	9.95	32.18	0.25
50	8.96	32.49	0.55
75	8.25	32.66	0.82
100	7.63	32.82	1.07
150	6.46	32.95	1.48
200	5.47	33.00	1.91
250	4.77	33.03	2.35
300	4.05	33.03	2.67
350	3.26	33.03	2.98
400	2.60	33.03	3.28



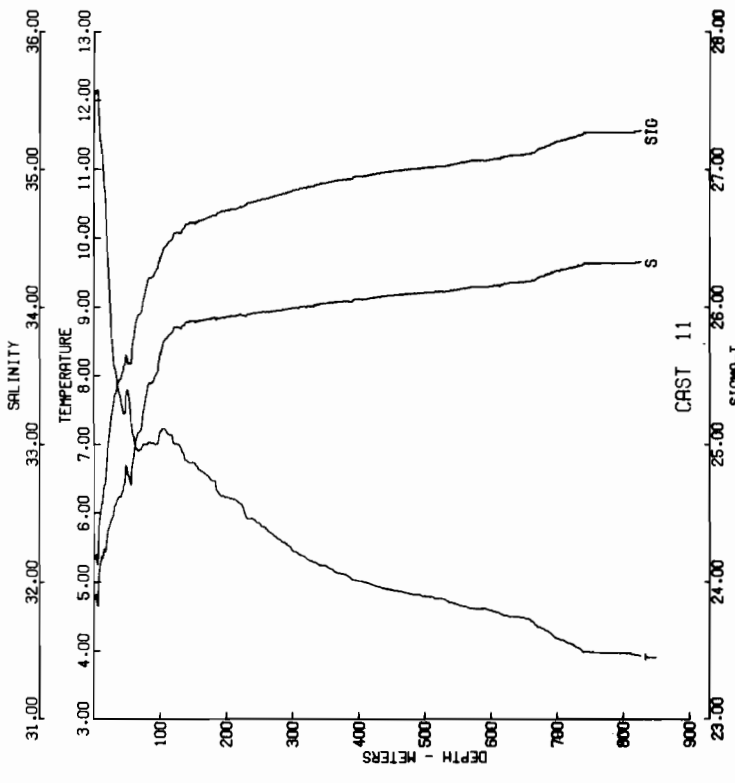
CAST RP-7-0C-010 DATE 07 SEP 73 TIME 2030 GMT
 LAT 49 00 2N LONG 126 53 2W WEATHER 1 SEA STATE 3
 BAROMETER 23 WIND DIR 290 T SPD 11 KT VISIBILITY 9
 CLOUD 0 AMOUNT 1 DRY 14.2 MET 12.5 MET DEPTH 0598 M

DEPTH (M)	TEMPERATURE (C)	SALINITY (PPT)	DELTA-SIGMA-T (DYN M)
0	11.99	31.79	0.00
1	11.93	31.77	0.00
5	11.33	31.79	0.19
10	10.93	31.79	0.26
25	9.55	32.39	0.60
50	8.42	32.59	0.91
75	7.74	32.74	1.14
100	7.07	32.86	1.30
150	5.80	32.93	1.71
200	4.94	32.97	2.11
250	4.29	33.00	2.49
300	3.69	33.04	2.85
350	3.19	33.04	3.15
400	2.67	33.04	3.46
450	2.17	33.04	3.76
500	1.67	33.04	4.06
550	1.17	33.04	4.36
600	0.67	33.04	4.66



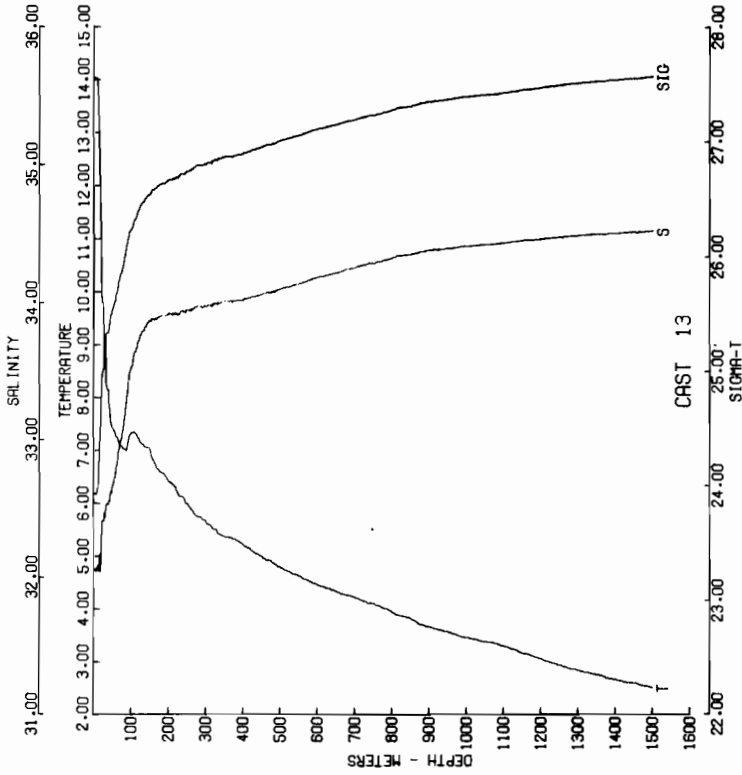
CAST RP-7-CC-012 DATE 07 SEP 73 TIME 2257 GMT
 LAT 48 59.2M LONG 127 01.3M WEATHER SEA STATE 3
 BAROMETER 23 WIND DIR 290 T SPD 18 Kt VISIBILITY 7
 CLOUD 0 AMOUNT 2 DRY 15.0 MET 13.0 DEPTH 1200 M

DEPTH (M)	TEMPERATURE (C)	SALINITY (PPT)	DELTA-SIGMA-T (DMN M)
0	12.68	31.70	0.000
5	12.32	31.70	.019
10	11.95	31.70	.037
15	11.58	31.70	.055
20	11.21	31.70	.073
25	10.84	31.70	.091
30	10.47	31.70	.109
35	10.10	31.70	.127
40	9.73	31.70	.145
45	9.36	31.70	.163
50	8.99	31.70	.181
55	8.62	31.70	.199
60	8.25	31.70	.217
65	7.88	31.70	.235
70	7.51	31.70	.253
75	7.14	31.70	.271
80	6.77	31.70	.289
85	6.40	31.70	.307
90	6.03	31.70	.325
95	5.66	31.70	.343
100	5.29	31.70	.361
105	4.92	31.70	.379
110	4.55	31.70	.397
115	4.18	31.70	.415
120	3.81	31.70	.433
125	3.44	31.70	.451
130	3.07	31.70	.469



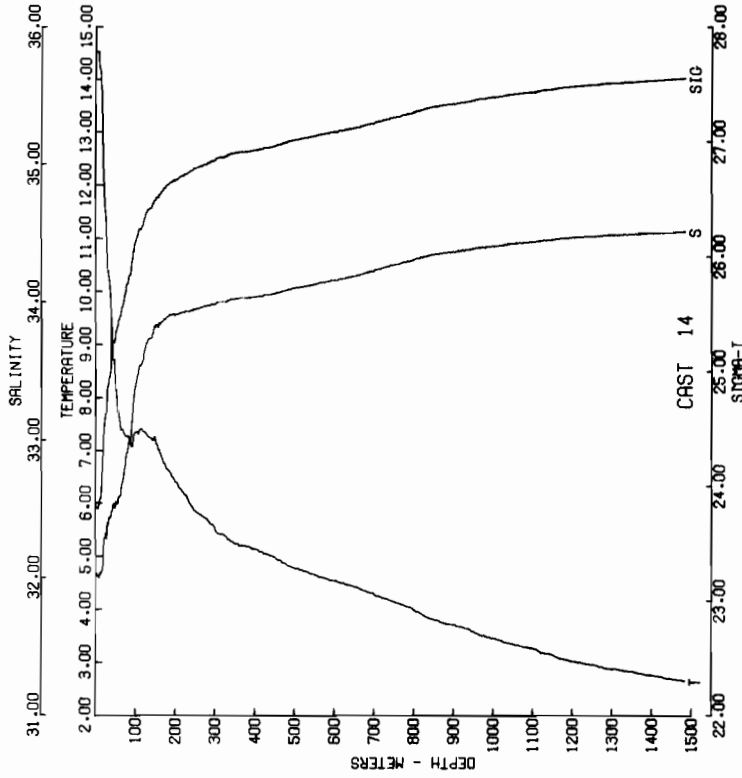
CAST RP-7-CC-011 DATE 07 SEP 73 TIME 2144 GMT
 LAT 48 59.4M LONG 126 57.0M WEATHER SEA STATE 3
 BAROMETER 23 WIND DIR 290 T SPD 11 Kt VISIBILITY 9
 CLOUD 0 AMOUNT 1 DRY 14.0 MET 12.0 DEPTH 0830 M

DEPTH (M)	TEMPERATURE (C)	SALINITY (PPT)	DELTA-SIGMA-T (DMN M)
0	12.19	31.00	0.000
5	11.82	31.00	.019
10	11.45	31.00	.037
15	11.08	31.00	.055
20	10.71	31.00	.073
25	10.34	31.00	.091
30	9.97	31.00	.109
35	9.60	31.00	.127
40	9.23	31.00	.145
45	8.86	31.00	.163
50	8.49	31.00	.181
55	8.12	31.00	.199
60	7.75	31.00	.217
65	7.38	31.00	.235
70	7.01	31.00	.253
75	6.64	31.00	.271
80	6.27	31.00	.289
85	5.90	31.00	.307
90	5.53	31.00	.325
95	5.16	31.00	.343
100	4.79	31.00	.361
105	4.42	31.00	.379
110	4.05	31.00	.397
115	3.68	31.00	.415
120	3.31	31.00	.433
125	2.94	31.00	.451
130	2.57	31.00	.469



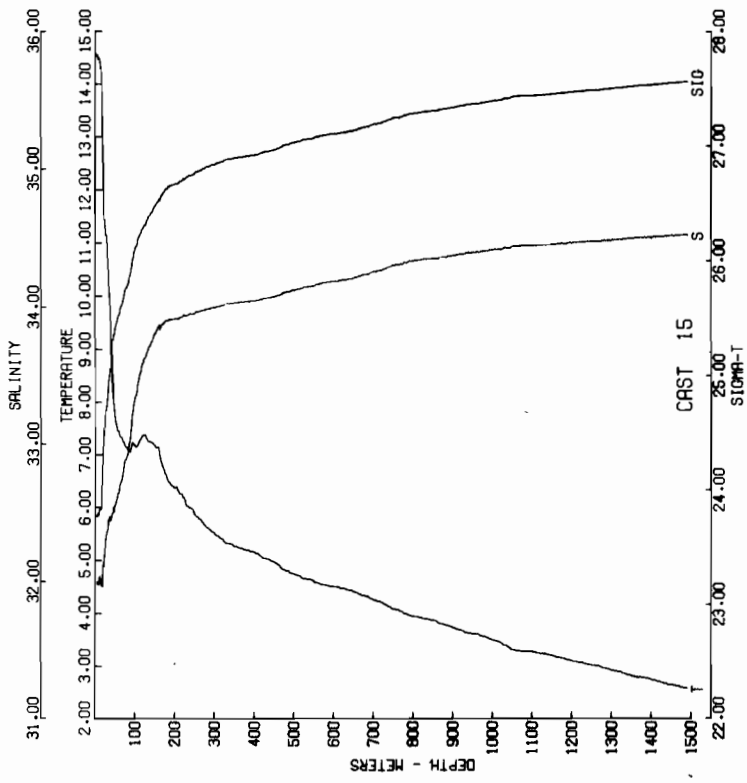
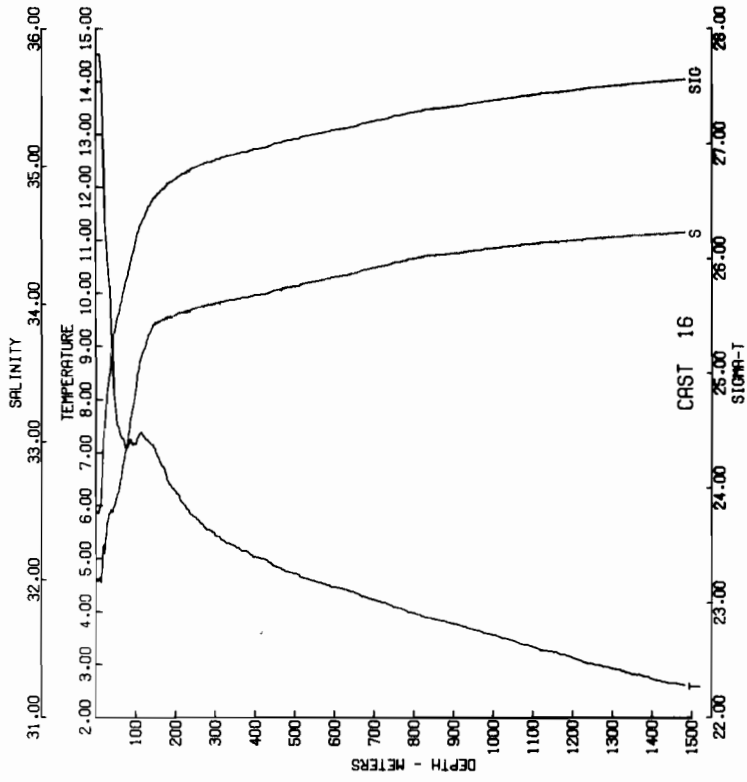
CAST RP-7-0C-013 DATE 09 SEP 73 TIME 0134 GMT
 LAT 45.59.0M LONG 127.09.7M WEATHER 4
 SURFACE WIND DIR 289 T SPD 10 KT VISIBILITY 2
 BAROMETER 23.00 WIND DIR 15.0 T SPD 14.8 DEPTH 1775 M
 CLOUD X AMOUNT 9 DRY 15.0 WET 14.8

DEPTH (M)	TEMPERATURE (C)	SALINITY (PPT)	DELTA-D (DYN M)
0	14.03	32.06	0.000
5	14.03	32.05	.020
10	14.03	32.05	.040
15	14.03	32.05	.070
20	14.03	32.05	.090
25	14.03	32.05	.100
30	14.03	32.05	.110
35	14.03	32.05	.120
40	14.03	32.05	.130
45	14.03	32.05	.140
50	14.03	32.05	.150
75	14.03	32.05	.160
100	14.03	32.05	.160
150	14.03	32.05	.160
200	14.03	32.05	.160
300	14.03	32.05	.160
400	14.03	32.05	.160
500	14.03	32.05	.160
750	14.03	32.05	.160
1000	14.03	32.05	.160
1250	14.03	32.05	.160
1500	14.03	32.05	.160



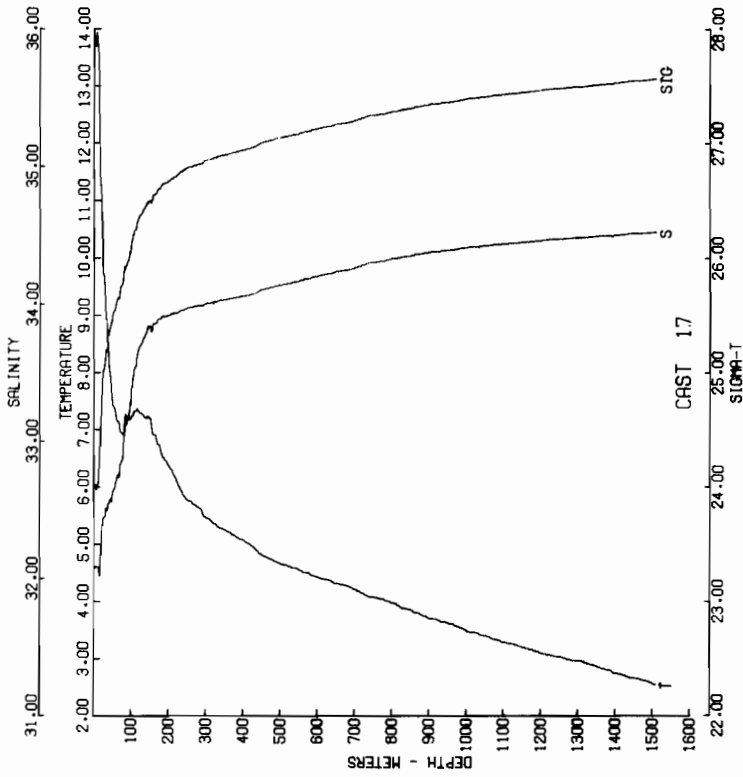
CAST RP-7-0C-014 DATE 10 SEP 73 TIME 0146 GMT
 LAT 45.59.0M LONG 127.15.0M WEATHER 1
 SURFACE WIND DIR 150 T SPD 15.0 VISIBILITY 6
 BAROMETER 23.00 WIND DIR 15.2 WET 14.8 DEPTH 2845 M
 CLOUD X AMOUNT 9 DRY 15.2 WET 14.8

DEPTH (M)	TEMPERATURE (C)	SALINITY (PPT)	DELTA-D (DYN M)
0	14.59	32.07	0.000
5	14.59	32.07	.021
10	14.59	32.07	.041
15	14.59	32.07	.061
20	14.59	32.07	.081
25	14.59	32.07	.095
30	14.59	32.07	.105
35	14.59	32.07	.115
40	14.59	32.07	.125
45	14.59	32.07	.135
50	14.59	32.07	.145
75	14.59	32.07	.155
100	14.59	32.07	.155
150	14.59	32.07	.155
200	14.59	32.07	.155
300	14.59	32.07	.155
400	14.59	32.07	.155
500	14.59	32.07	.155
750	14.59	32.07	.155
1000	14.59	32.07	.155
1250	14.59	32.07	.155
1500	14.59	32.07	.155



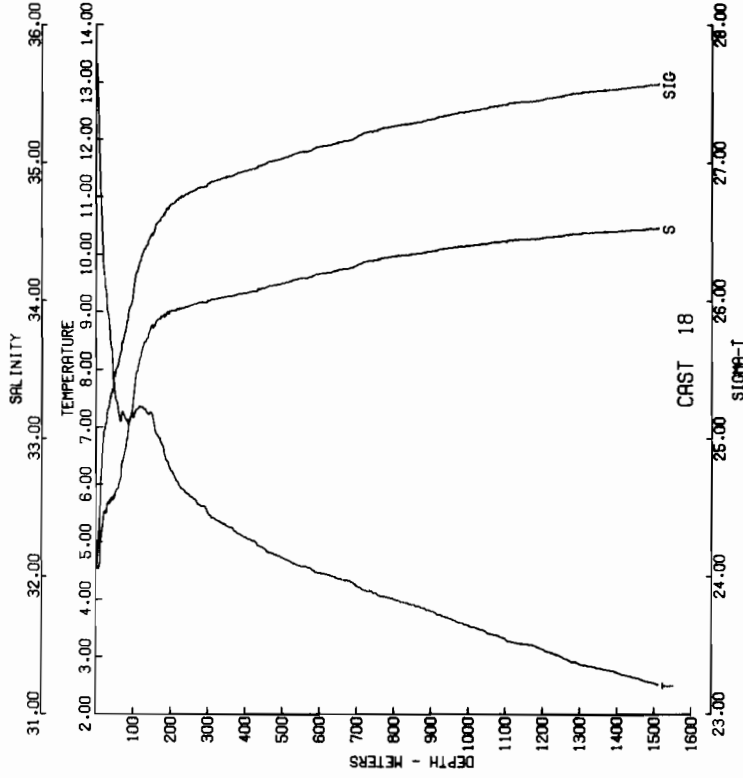
CAST RP-7-CC-816 DATE 10 SEP 73 TIME 0945 GMT
 LAUNCHER 23 J WIND DIR 330 T SPD 15 K VISIBILITY 6
 CLOUD X AMOUNT 0 DAY 18.6 MET 13.9 DEPTH 1966 M

CAST RP-7-DC-115 DATE 10 SEP 73 TIME 0715 GMT
 LAUNCHER 23 J WIND DIR 330 T SPD 11 K VISIBILITY 6
 CLOUD X AMOUNT 0 DAY 14.4 MET 15.1 DEPTH 1951 M



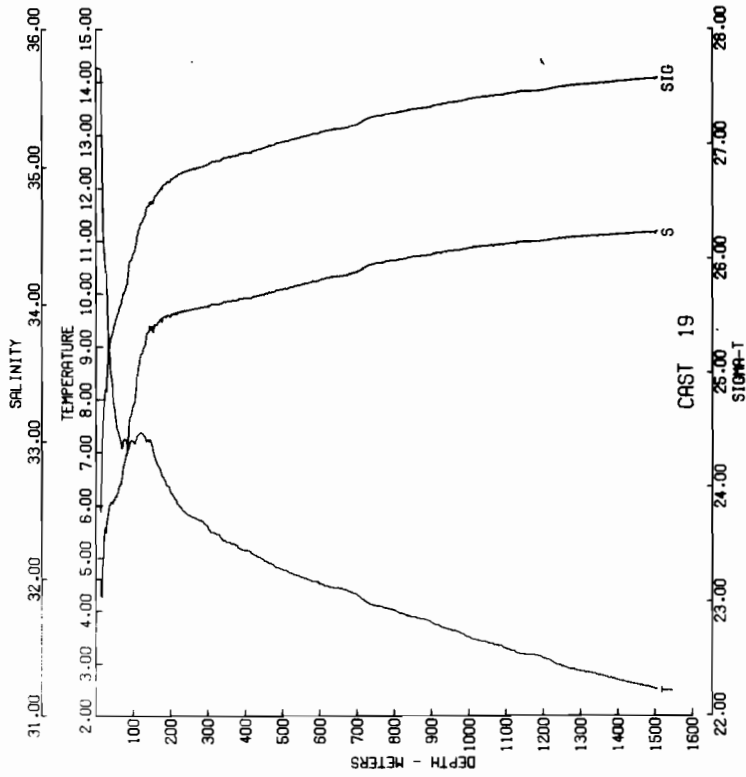
CAST RP-7-00-017 DATE 10 SEP 73 TIME 1818 GMT
 LAT 32-52 N LONG 127-21 W SURF WIND 13 M
 WAVE PER 100 SWS 1.0 M SFC WIND 13 M
 CLOUD X AMOUNT 0 DRY 14.5 MET 13.9 DEPTH 20.6 M

DEPTH (M)	TEMPERATURE (C)	SALINITY (PPT)	SIGMA-T (DN/M)	DELTA-D (DN/M)
0	13.55	32.07	24.94	0.000
1	13.27	32.09	24.94	0.000
2	13.00	32.08	24.94	0.000
3	12.77	32.04	24.94	0.039
4	12.52	32.02	24.94	0.058
5	12.26	32.00	24.94	0.076
6	12.00	32.00	24.94	0.095
7	11.77	32.02	24.94	0.113
8	11.52	32.05	24.94	0.132
9	11.26	32.07	24.94	0.150
10	11.00	32.08	24.94	0.168
15	10.50	32.10	24.94	0.216
20	10.00	32.12	24.94	0.263
25	9.50	32.14	24.94	0.310
30	9.00	32.16	24.94	0.357
35	8.50	32.17	24.94	0.404
40	8.00	32.18	24.94	0.451
45	7.50	32.19	24.94	0.498
50	7.00	32.20	24.94	0.545
55	6.50	32.21	24.94	0.592
60	6.00	32.22	24.94	0.639
65	5.50	32.23	24.94	0.686
70	5.00	32.24	24.94	0.733
75	4.50	32.25	24.94	0.780
80	4.00	32.26	24.94	0.827
85	3.50	32.27	24.94	0.874
90	3.00	32.28	24.94	0.921
95	2.50	32.29	24.94	0.968
100	2.00	32.30	24.94	1.015
105	1.50	32.31	24.94	1.062
110	1.00	32.32	24.94	1.109
115	0.50	32.33	24.94	1.156
120	0.00	32.34	24.94	1.203



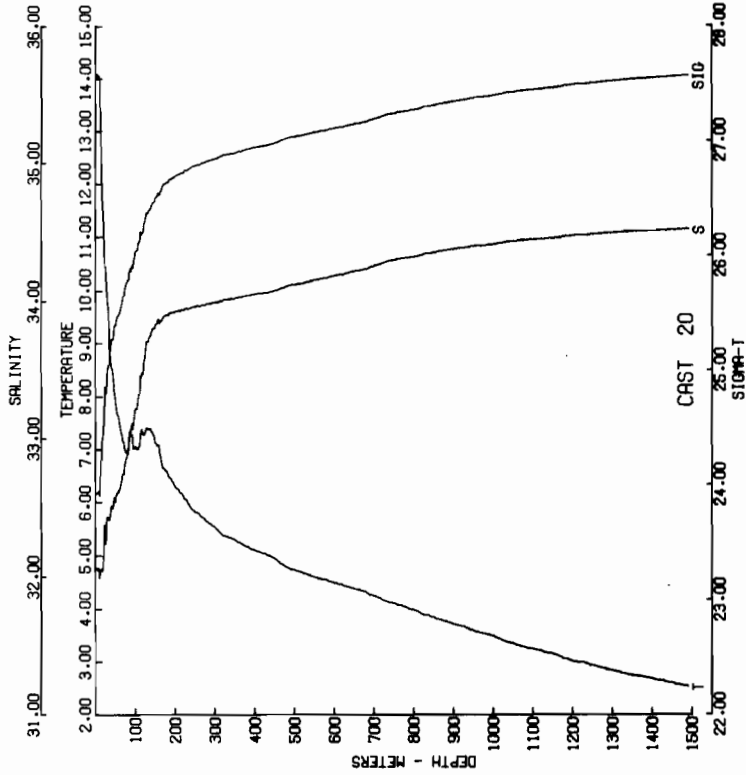
CAST RP-7-00-018 DATE 10 SEP 73 TIME 1117 GMT
 LAT 32-52 N LONG 127-21 W SURF WIND 13 M
 WAVE PER 100 SWS 1.0 M SFC WIND 13 M
 CLOUD X AMOUNT 0 DRY 14.4 MET 13.9 DEPTH 20.3 M

DEPTH (M)	TEMPERATURE (C)	SALINITY (PPT)	SIGMA-T (DN/M)	DELTA-D (DN/M)
0	13.26	32.07	24.94	0.000
1	12.99	32.09	24.94	0.000
2	12.72	32.08	24.94	0.000
3	12.49	32.04	24.94	0.039
4	12.24	32.02	24.94	0.058
5	11.99	32.00	24.94	0.076
6	11.74	32.00	24.94	0.095
7	11.49	32.02	24.94	0.113
8	11.24	32.05	24.94	0.132
9	10.99	32.07	24.94	0.150
10	10.74	32.08	24.94	0.168
15	10.24	32.10	24.94	0.216
20	9.74	32.12	24.94	0.263
25	9.24	32.14	24.94	0.310
30	8.74	32.16	24.94	0.357
35	8.24	32.17	24.94	0.404
40	7.74	32.18	24.94	0.451
45	7.24	32.19	24.94	0.498
50	6.74	32.20	24.94	0.545
55	6.24	32.21	24.94	0.592
60	5.74	32.22	24.94	0.639
65	5.24	32.23	24.94	0.686
70	4.74	32.24	24.94	0.733
75	4.24	32.25	24.94	0.780
80	3.74	32.26	24.94	0.827
85	3.24	32.27	24.94	0.874
90	2.74	32.28	24.94	0.921
95	2.24	32.29	24.94	0.968
100	1.74	32.30	24.94	1.015
105	1.24	32.31	24.94	1.062
110	0.74	32.32	24.94	1.109
115	0.24	32.33	24.94	1.156
120	0.00	32.34	24.94	1.203



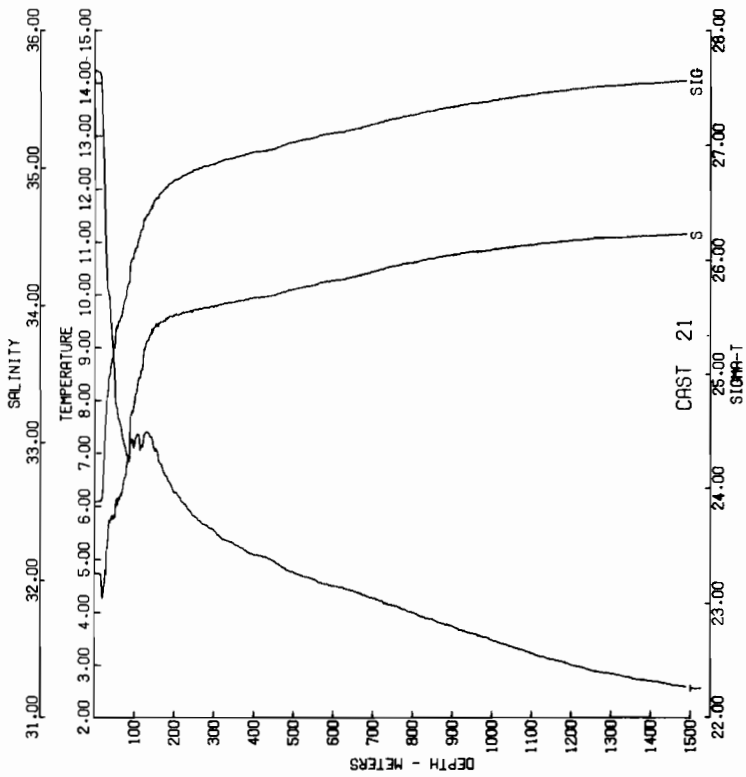
CAST RP-7-CC-019 DATE 10 SEP 73 TIME 1315 GMT
 LAT 49 59.7N LONG 127 19.6W HEATHER 4 SEA STATE 3
 BAROMETER 28 WIND DIR 352 T SPD 16 KT VISIBILITY 1
 CLOUD X AMOUNT 9 DRY 13.7 MET 13.4 DEPTH 2033 M

DEPTH (M)	TEMPERATURE (C)	SALINITY (PPT)	SIGMA-T (DYN M)	DELTA-D
0	14.2	32.00	23.94	0.000
5	14.2	32.00	23.94	.020
10	14.2	32.00	23.94	.041
15	14.2	32.00	23.94	.062
20	14.2	32.00	23.94	.083
25	14.2	32.00	23.94	.104
30	14.2	32.00	23.94	.125
35	14.2	32.00	23.94	.146
40	14.2	32.00	23.94	.167
45	14.2	32.00	23.94	.188
50	14.2	32.00	23.94	.209
55	14.2	32.00	23.94	.230
60	14.2	32.00	23.94	.251
65	14.2	32.00	23.94	.272
70	14.2	32.00	23.94	.293
75	14.2	32.00	23.94	.314
80	14.2	32.00	23.94	.335
85	14.2	32.00	23.94	.356
90	14.2	32.00	23.94	.377
95	14.2	32.00	23.94	.398
100	14.2	32.00	23.94	.419
105	14.2	32.00	23.94	.440
110	14.2	32.00	23.94	.461
115	14.2	32.00	23.94	.482
120	14.2	32.00	23.94	.503
125	14.2	32.00	23.94	.524
130	14.2	32.00	23.94	.545
135	14.2	32.00	23.94	.566
140	14.2	32.00	23.94	.587
145	14.2	32.00	23.94	.608
150	14.2	32.00	23.94	.629
155	14.2	32.00	23.94	.650
160	14.2	32.00	23.94	.671
165	14.2	32.00	23.94	.692
170	14.2	32.00	23.94	.713
175	14.2	32.00	23.94	.734
180	14.2	32.00	23.94	.755
185	14.2	32.00	23.94	.776
190	14.2	32.00	23.94	.797
195	14.2	32.00	23.94	.818
200	14.2	32.00	23.94	.839
205	14.2	32.00	23.94	.860
210	14.2	32.00	23.94	.881
215	14.2	32.00	23.94	.902
220	14.2	32.00	23.94	.923
225	14.2	32.00	23.94	.944
230	14.2	32.00	23.94	.965
235	14.2	32.00	23.94	.986
240	14.2	32.00	23.94	1.007
245	14.2	32.00	23.94	1.028
250	14.2	32.00	23.94	1.049
255	14.2	32.00	23.94	1.070
260	14.2	32.00	23.94	1.091
265	14.2	32.00	23.94	1.112
270	14.2	32.00	23.94	1.133
275	14.2	32.00	23.94	1.154
280	14.2	32.00	23.94	1.175



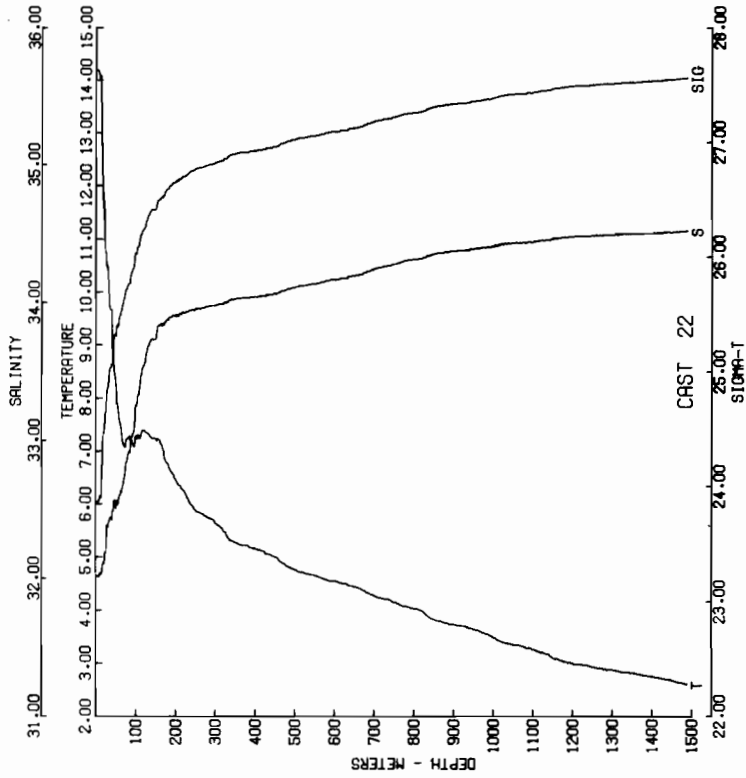
CAST RP-7-CC-020 DATE 10 SEP 73 TIME 1447 GMT
 LAT 49 51.9N LONG 127 22.6W HEATHER 4 SEA STATE 3
 BAROMETER 28 WIND DIR 018 T SPD 14 KT VISIBILITY 1
 CLOUD 6 AMOUNT 1 DRY 14.5 MET 14.0 DEPTH 2033 M

DEPTH (M)	TEMPERATURE (C)	SALINITY (PPT)	SIGMA-T (DYN M)	DELTA-D
0	14.0	32.00	23.92	0.000
5	14.0	32.00	23.92	.020
10	14.0	32.00	23.92	.040
15	14.0	32.00	23.92	.060
20	14.0	32.00	23.92	.080
25	14.0	32.00	23.92	.100
30	14.0	32.00	23.92	.120
35	14.0	32.00	23.92	.140
40	14.0	32.00	23.92	.160
45	14.0	32.00	23.92	.180
50	14.0	32.00	23.92	.200
55	14.0	32.00	23.92	.220
60	14.0	32.00	23.92	.240
65	14.0	32.00	23.92	.260
70	14.0	32.00	23.92	.280
75	14.0	32.00	23.92	.300
80	14.0	32.00	23.92	.320
85	14.0	32.00	23.92	.340
90	14.0	32.00	23.92	.360
95	14.0	32.00	23.92	.380
100	14.0	32.00	23.92	.400
105	14.0	32.00	23.92	.420
110	14.0	32.00	23.92	.440
115	14.0	32.00	23.92	.460
120	14.0	32.00	23.92	.480
125	14.0	32.00	23.92	.500
130	14.0	32.00	23.92	.520
135	14.0	32.00	23.92	.540
140	14.0	32.00	23.92	.560
145	14.0	32.00	23.92	.580
150	14.0	32.00	23.92	.600
155	14.0	32.00	23.92	.620
160	14.0	32.00	23.92	.640
165	14.0	32.00	23.92	.660
170	14.0	32.00	23.92	.680
175	14.0	32.00	23.92	.700
180	14.0	32.00	23.92	.720
185	14.0	32.00	23.92	.740
190	14.0	32.00	23.92	.760
195	14.0	32.00	23.92	.780
200	14.0	32.00	23.92	.800
205	14.0	32.00	23.92	.820
210	14.0	32.00	23.92	.840
215	14.0	32.00	23.92	.860
220	14.0	32.00	23.92	.880
225	14.0	32.00	23.92	.900
230	14.0	32.00	23.92	.920
235	14.0	32.00	23.92	.940
240	14.0	32.00	23.92	.960
245	14.0	32.00	23.92	.980
250	14.0	32.00	23.92	1.000
255	14.0	32.00	23.92	1.020
260	14.0	32.00	23.92	1.040
265	14.0	32.00	23.92	1.060
270	14.0	32.00	23.92	1.080
275	14.0	32.00	23.92	1.100
280	14.0	32.00	23.92	1.120



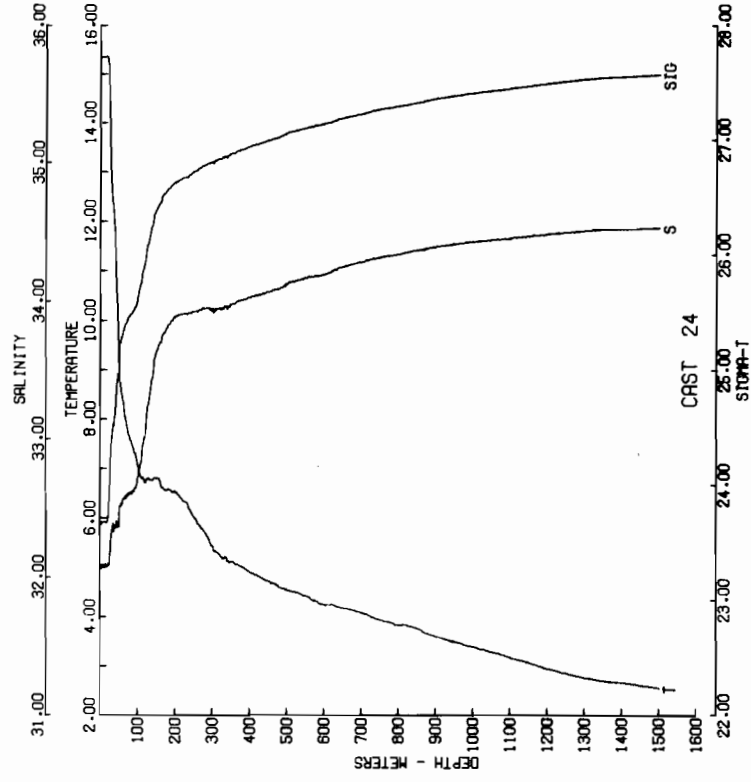
CAST NP-7-00-21 DATE 10 SEP 73 TIME 1516 GMT
 LAT 43 00 IN LONG 177 15 W WEATHER S
 BAROMET 1013.0 M SEA STATE 4
 CLOUD 6 AMOUNT 1 DRY 14.1 DEPTH 2025 M

DEPTH (M)	TEMPERATURE (C)	SALINITY (PPT)	SIGMA-T	DELTA-D (DM/M)
0	14.25	32.05	23.80	0.000
2	14.25	32.05	23.80	.020
5	14.22	32.05	23.80	.000
10	14.13	32.04	23.80	.000
15	13.93	32.04	23.80	.000
20	13.73	32.04	23.80	.000
25	13.53	32.04	23.80	.000
30	13.33	32.04	23.80	.000
35	13.13	32.04	23.80	.000
40	12.93	32.04	23.80	.000
45	12.73	32.04	23.80	.000
50	12.53	32.04	23.80	.000
55	12.33	32.04	23.80	.000
60	12.13	32.04	23.80	.000
65	11.93	32.04	23.80	.000
70	11.73	32.04	23.80	.000
75	11.53	32.04	23.80	.000
80	11.33	32.04	23.80	.000
85	11.13	32.04	23.80	.000
90	10.93	32.04	23.80	.000
95	10.73	32.04	23.80	.000
100	10.53	32.04	23.80	.000
105	10.33	32.04	23.80	.000
110	10.13	32.04	23.80	.000
115	9.93	32.04	23.80	.000
120	9.73	32.04	23.80	.000
125	9.53	32.04	23.80	.000
130	9.33	32.04	23.80	.000
135	9.13	32.04	23.80	.000
140	8.93	32.04	23.80	.000
145	8.73	32.04	23.80	.000
150	8.53	32.04	23.80	.000
155	8.33	32.04	23.80	.000
160	8.13	32.04	23.80	.000
165	7.93	32.04	23.80	.000
170	7.73	32.04	23.80	.000
175	7.53	32.04	23.80	.000
180	7.33	32.04	23.80	.000
185	7.13	32.04	23.80	.000
190	6.93	32.04	23.80	.000
195	6.73	32.04	23.80	.000
200	6.53	32.04	23.80	.000
205	6.33	32.04	23.80	.000
210	6.13	32.04	23.80	.000
215	5.93	32.04	23.80	.000
220	5.73	32.04	23.80	.000
225	5.53	32.04	23.80	.000
230	5.33	32.04	23.80	.000
235	5.13	32.04	23.80	.000
240	4.93	32.04	23.80	.000
245	4.73	32.04	23.80	.000
250	4.53	32.04	23.80	.000
255	4.33	32.04	23.80	.000
260	4.13	32.04	23.80	.000
265	3.93	32.04	23.80	.000
270	3.73	32.04	23.80	.000
275	3.53	32.04	23.80	.000
280	3.33	32.04	23.80	.000
285	3.13	32.04	23.80	.000
290	2.93	32.04	23.80	.000
295	2.73	32.04	23.80	.000
300	2.53	32.04	23.80	.000
305	2.33	32.04	23.80	.000
310	2.13	32.04	23.80	.000
315	1.93	32.04	23.80	.000
320	1.73	32.04	23.80	.000
325	1.53	32.04	23.80	.000
330	1.33	32.04	23.80	.000
335	1.13	32.04	23.80	.000
340	0.93	32.04	23.80	.000
345	0.73	32.04	23.80	.000
350	0.53	32.04	23.80	.000
355	0.33	32.04	23.80	.000
360	0.13	32.04	23.80	.000



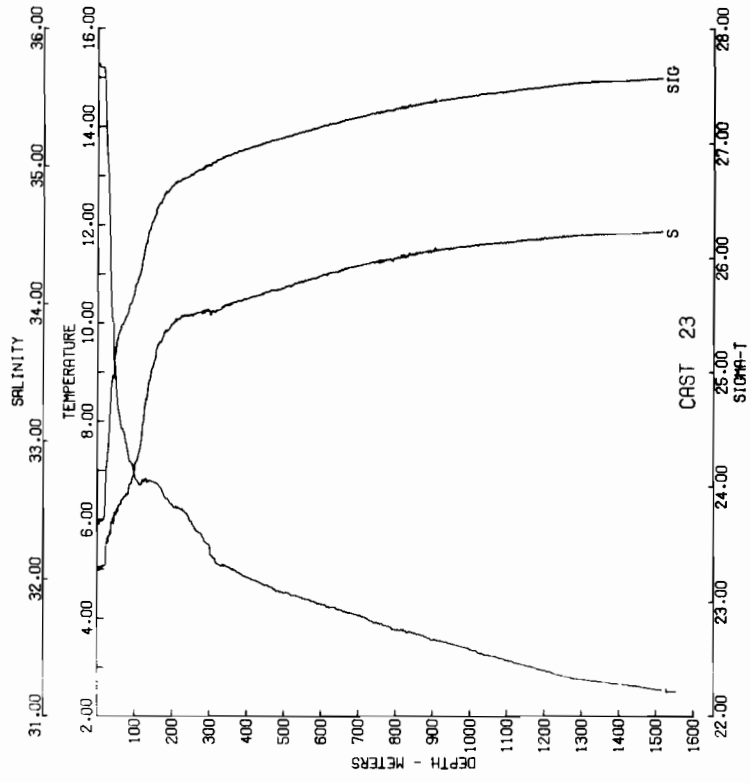
CAST NP-7-00-22 DATE 10 SEP 73 TIME 1745 GMT
 LAT 43 00 IN LONG 177 15 W WEATHER S
 BAROMET 1013.0 M SEA STATE 4
 CLOUD 3 AMOUNT 1 DRY 15.2 DEPTH 2029 M

DEPTH (M)	TEMPERATURE (C)	SALINITY (PPT)	SIGMA-T	DELTA-D (DM/M)
0	14.21	32.01	23.80	0.000
2	14.21	32.01	23.80	.020
5	14.17	32.01	23.80	.000
10	14.09	32.01	23.80	.000
15	13.92	32.01	23.80	.000
20	13.75	32.01	23.80	.000
25	13.58	32.01	23.80	.000
30	13.41	32.01	23.80	.000
35	13.24	32.01	23.80	.000
40	13.07	32.01	23.80	.000
45	12.90	32.01	23.80	.000
50	12.73	32.01	23.80	.000
55	12.56	32.01	23.80	.000
60	12.39	32.01	23.80	.000
65	12.22	32.01	23.80	.000
70	12.05	32.01	23.80	.000
75	11.88	32.01	23.80	.000
80	11.71	32.01	23.80	.000
85	11.54	32.01	23.80	.000
90	11.37	32.01	23.80	.000
95	11.20	32.01	23.80	.000
100	11.03	32.01	23.80	.000
105	10.86	32.01	23.80	.000
110	10.69	32.01	23.80	.000
115	10.52	32.01	23.80	.000
120	10.35	32.01	23.80	.000
125	10.18	32.01	23.80	.000
130	10.01	32.01	23.80	.000
135	9.84	32.01	23.80	.000
140	9.67	32.01	23.80	.000
145	9.50	32.01	23.80	.000
150	9.33	32.01	23.80	.000
155	9.16	32.01	23.80	.000
160	8.99	32.01	23.80	.000
165	8.82	32.01	23.80	.000
170	8.65	32.01	23.80	.000
175	8.48	32.01	23.80	.000
180	8.31	32.01	23.80	.000
185	8.14	32.01	23.80	.000
190	7.97	32.01	23.80	.000
195	7.80	32.01	23.80	.000
200	7.63	32.01	23.80	.000
205	7.46	32.01	23.80	.000
210	7.29	32.01	23.80	.000
215	7.12	32.01	23.80	.000
220	6.95	32.01	23.80	.000
225	6.78	32.01	23.80	.000
230	6.61	32.01	23.80	.000
235	6.44	32.01	23.80	.000
240	6.27	32.01	23.80	.000
245	6.10	32.01	23.80	.000
250	5.93	32.01	23.80	.000
255	5.76	32.01	23.80	.000
260	5.59	32.01	23.80	.000
265	5.42	32.01	23.80	.000
270	5.25	32.01	23.80	.000
275	5.08	32.01	23.80	.000
280	4.91	32.01	23.80	.000
285	4.74	32.01	23.80	.000
290	4.57	32.01	23.80	.000
295	4.40	32.01	23.80	.000
300	4.23	32.01	23.80	.000
305	4.06	32.01	23.80	.000
310	3.89	32.01	23.80	.000
315	3.72	32.01	23.80	.000
320	3.55	32.01	23.80	.000
325	3.38	32.01	23.80	.000
330	3.21	32.01	23.80	.000
335	3.04	32.01	23.80	.000
340	2.87	32.01	23.80	.000
345	2.70	32.01	23.80	.000
350	2.53	32.01	23.80	.000
355	2.36	32.01	23.80	.000
360	2.19	32.01	23.80	.000



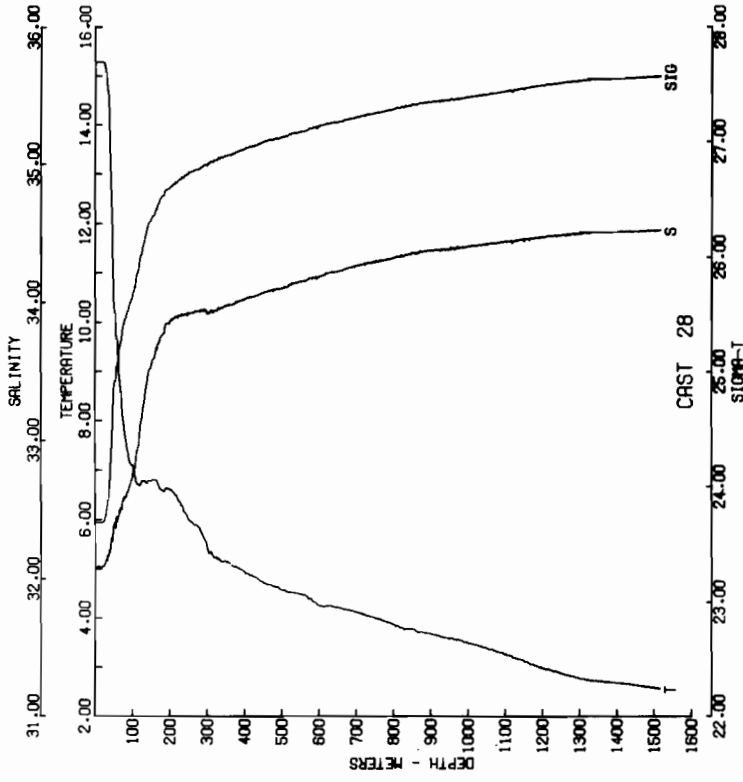
CAST RP-7-00-824 DATE 10 SEP 73 TIME 2246 GMT
 CAST 4 10 00 WIND DIR 137 SPD 15.0 METERS PER SECOND
 WAVE PERIOD 1.0 WAVE DIR 137 WAVE HGT 1.0
 BAROMETER 1015.0 METERS ALTITUDE 9
 CLOUD 2 AMOUNT 2 DRY 16.2 WET 15.0 DEPTH 2501 M

DEPTH (M)	TEMPERATURE (C)	SALINITY (PPT)	SIGMA-T (DYN M)	DELTA-D (DYN M)
0	15.355	32.707	22.233	0.000
10	15.322	32.709	22.233	0.000
15	15.322	32.709	22.233	0.000
20	15.322	32.709	22.233	0.000
25	15.322	32.709	22.233	0.000
30	15.322	32.709	22.233	0.000
35	15.322	32.709	22.233	0.000
40	15.322	32.709	22.233	0.000
45	15.322	32.709	22.233	0.000
50	15.322	32.709	22.233	0.000
75	15.322	32.709	22.233	0.000
100	15.322	32.709	22.233	0.000
150	15.322	32.709	22.233	0.000
200	15.322	32.709	22.233	0.000
300	15.322	32.709	22.233	0.000
400	15.322	32.709	22.233	0.000
500	15.322	32.709	22.233	0.000
600	15.322	32.709	22.233	0.000
700	15.322	32.709	22.233	0.000
800	15.322	32.709	22.233	0.000
900	15.322	32.709	22.233	0.000
1000	15.322	32.709	22.233	0.000
1100	15.322	32.709	22.233	0.000
1200	15.322	32.709	22.233	0.000
1300	15.322	32.709	22.233	0.000
1400	15.322	32.709	22.233	0.000
1500	15.322	32.709	22.233	0.000



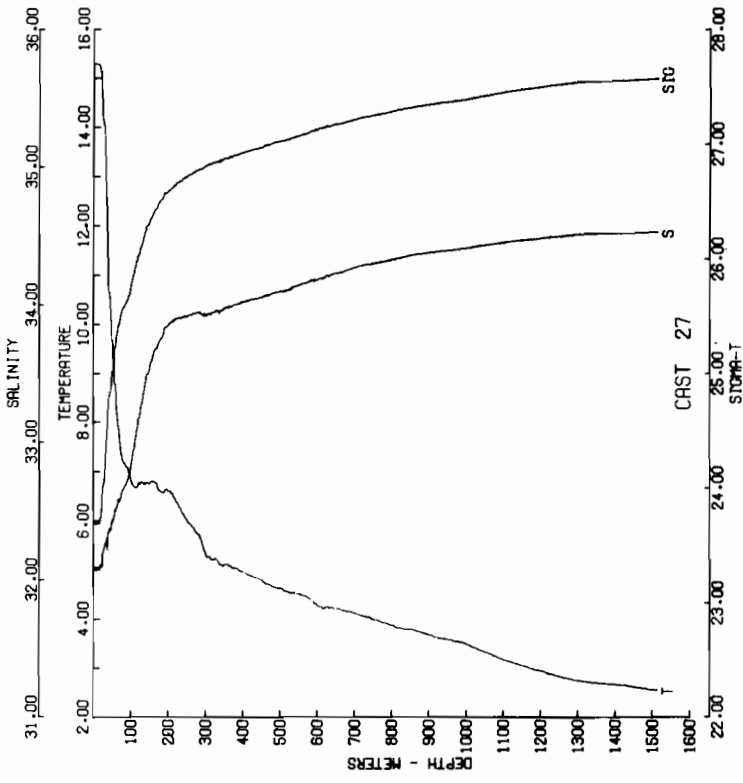
CAST RP-7-00-823 DATE 10 SEP 73 TIME 2112 GMT
 CAST 4 10 00 WIND DIR 137 SPD 15.0 METERS PER SECOND
 WAVE PERIOD 1.0 WAVE DIR 137 WAVE HGT 1.0
 BAROMETER 1015.0 METERS ALTITUDE 9
 CLOUD 3 AMOUNT 1 DRY 17.2 WET 15.5 DEPTH 2501 M

DEPTH (M)	TEMPERATURE (C)	SALINITY (PPT)	SIGMA-T (DYN M)	DELTA-D (DYN M)
0	15.320	32.707	22.233	0.000
1	15.320	32.707	22.233	0.000
5	15.320	32.707	22.233	0.000
10	15.320	32.707	22.233	0.000
15	15.320	32.707	22.233	0.000
20	15.320	32.707	22.233	0.000
25	15.320	32.707	22.233	0.000
30	15.320	32.707	22.233	0.000
35	15.320	32.707	22.233	0.000
40	15.320	32.707	22.233	0.000
45	15.320	32.707	22.233	0.000
50	15.320	32.707	22.233	0.000
75	15.320	32.707	22.233	0.000
100	15.320	32.707	22.233	0.000
150	15.320	32.707	22.233	0.000
200	15.320	32.707	22.233	0.000
300	15.320	32.707	22.233	0.000
400	15.320	32.707	22.233	0.000
500	15.320	32.707	22.233	0.000
600	15.320	32.707	22.233	0.000
700	15.320	32.707	22.233	0.000
800	15.320	32.707	22.233	0.000
900	15.320	32.707	22.233	0.000
1000	15.320	32.707	22.233	0.000
1100	15.320	32.707	22.233	0.000
1200	15.320	32.707	22.233	0.000
1300	15.320	32.707	22.233	0.000
1400	15.320	32.707	22.233	0.000
1500	15.320	32.707	22.233	0.000



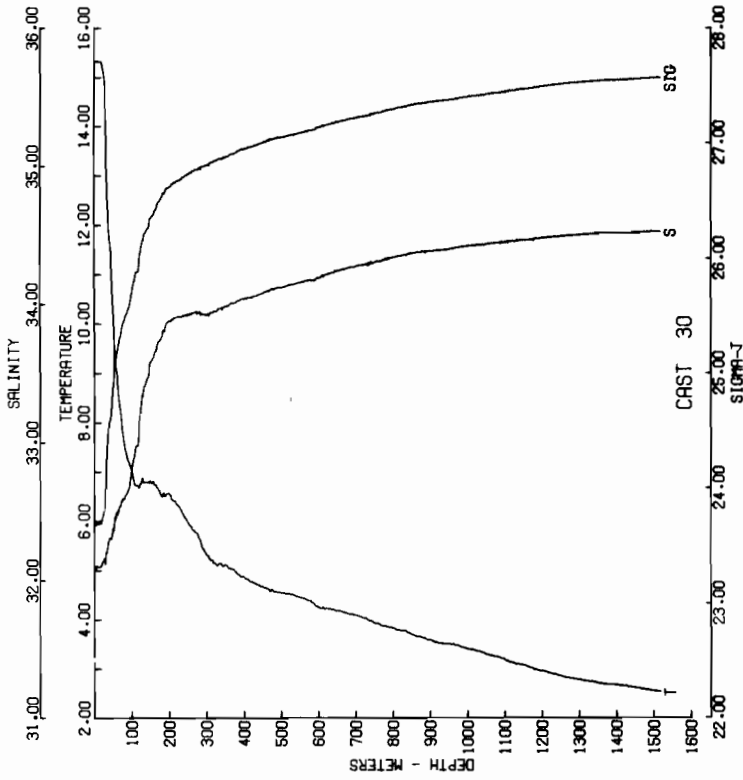
CAST RP-7-CC-028 DATE 11 SEP 73 TIME 0444 GMT
 LATITUDE 59.0N LONG 12.0E WEA THER SEA STATE 3
 WIND DIR 15.1 WIND SPED 15.1 KNOTS WAVE DIR 15.1 WAVE PERIOD 2
 CLOUD % AMOUNT 9 DRY 15.2 WET 15.1 DEPTH 2581 M

DEPTH TEMPERATURE SALINITY SIGMA-T DELTA-D
 (M) (C) (PPT) (DM) (DM)



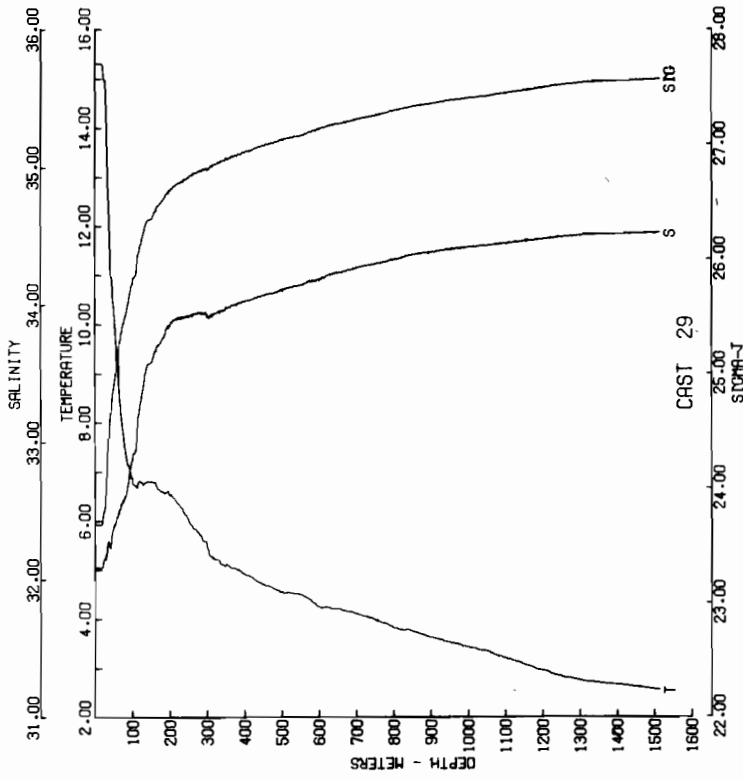
CAST RP-7-CC-027 DATE 11 SEP 73 TIME 0315 GMT
 LATITUDE 59.0N LONG 12.0E WEA THER SEA STATE 3
 WIND DIR 15.1 WIND SPED 15.1 KNOTS WAVE DIR 15.1 WAVE PERIOD 2
 CLOUD % AMOUNT 1 DRY 15.6 WET 15.1 DEPTH 2581 M

DEPTH TEMPERATURE SALINITY SIGMA-T DELTA-D
 (M) (C) (PPT) (DM) (DM)



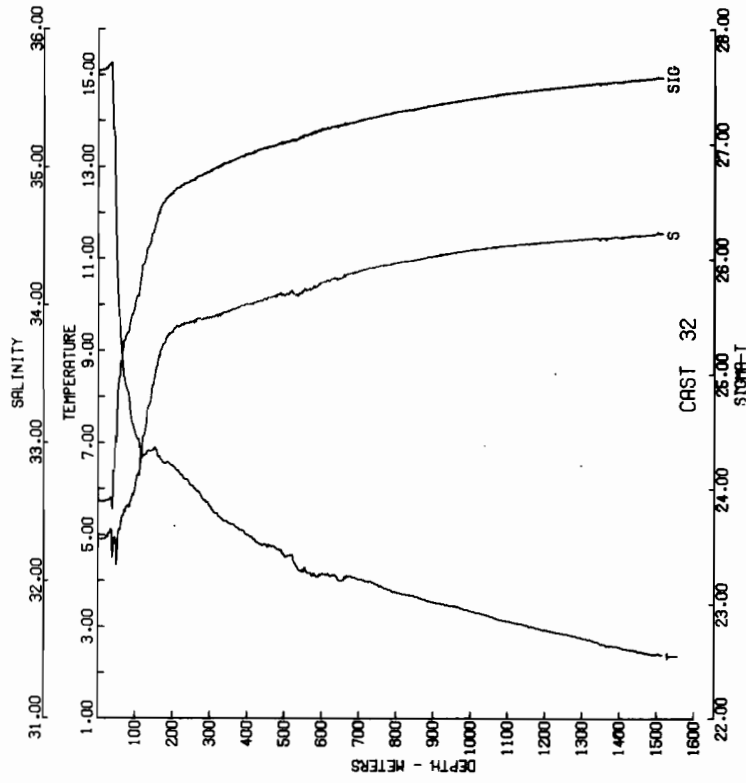
CAST NP-7-CC-029 DATE 11 SEP 73 TIME 0615 GMT
 LAT 43.00 IN LONG 127.573M WEATHER 4 SEA STATE 3
 BAROMETER 16.1 WIND DIR 317 T SPD 16 KT VISIBILITY 4
 CLOUD X AMOUNT 9 DRY 15.1 WET 15.0 DEPTH 2504 M

DEPTH (M)	TEMPERATURE (C)	SALINITY (PPT)	SIGMA-T (DYN M)	DELTA-S
0	15.31	32.09	23.68	0.000
1	15.31	32.09	23.68	.021
5	15.31	32.09	23.68	.055
15	15.24	32.09	23.68	.089
25	15.24	32.09	23.68	.119
35	15.24	32.09	23.68	.152
45	15.24	32.09	23.68	.186
55	15.24	32.09	23.68	.220
65	15.24	32.09	23.68	.254
75	15.24	32.09	23.68	.288
85	15.24	32.09	23.68	.322
95	15.24	32.09	23.68	.356
105	15.24	32.09	23.68	.390
115	15.24	32.09	23.68	.424
125	15.24	32.09	23.68	.458
135	15.24	32.09	23.68	.492
145	15.24	32.09	23.68	.526
155	15.24	32.09	23.68	.560
160	15.24	32.09	23.68	.594



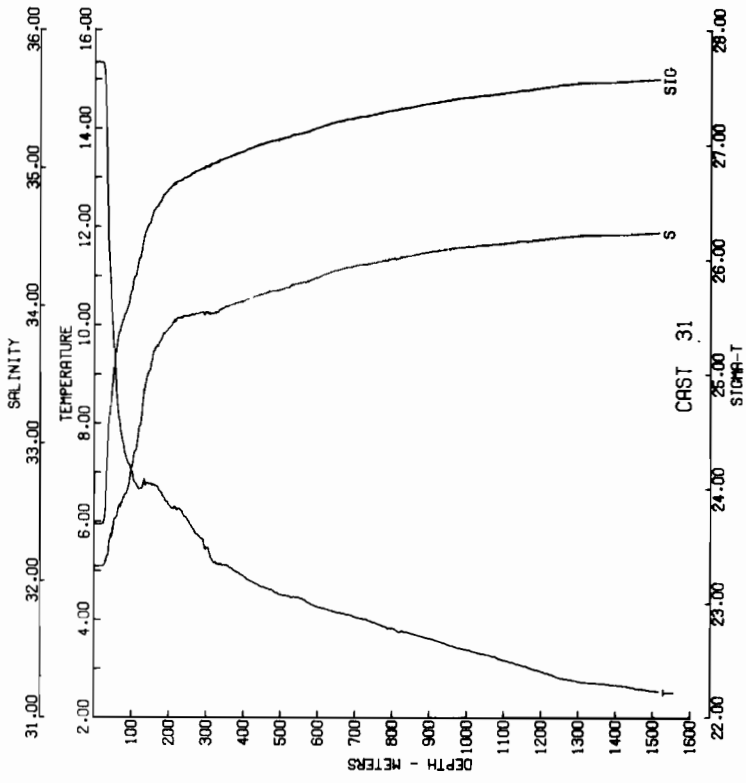
CAST RP-7-CC-030 DATE 11 SEP 73 TIME 0745 GMT
 LAT 48.594N LONG 120.002M WEATHER 4 SEA STATE 4
 BAROMETER 16.1 WIND DIR 320 T SPD 16 KT VISIBILITY 4
 CLOUD X AMOUNT 9 DRY 14.4 WET 14.4 DEPTH 2504 M

DEPTH (M)	TEMPERATURE (C)	SALINITY (PPT)	SIGMA-T (DYN M)	DELTA-S
0	15.32	32.07	23.67	0.000
1	15.32	32.07	23.67	.021
5	15.32	32.07	23.67	.055
15	15.27	32.07	23.67	.089
25	15.27	32.07	23.67	.119
35	15.27	32.07	23.67	.152
45	15.27	32.07	23.67	.186
55	15.27	32.07	23.67	.220
65	15.27	32.07	23.67	.254
75	15.27	32.07	23.67	.288
85	15.27	32.07	23.67	.322
95	15.27	32.07	23.67	.356
105	15.27	32.07	23.67	.390
115	15.27	32.07	23.67	.424
125	15.27	32.07	23.67	.458
135	15.27	32.07	23.67	.492
145	15.27	32.07	23.67	.526
155	15.27	32.07	23.67	.560
160	15.27	32.07	23.67	.594



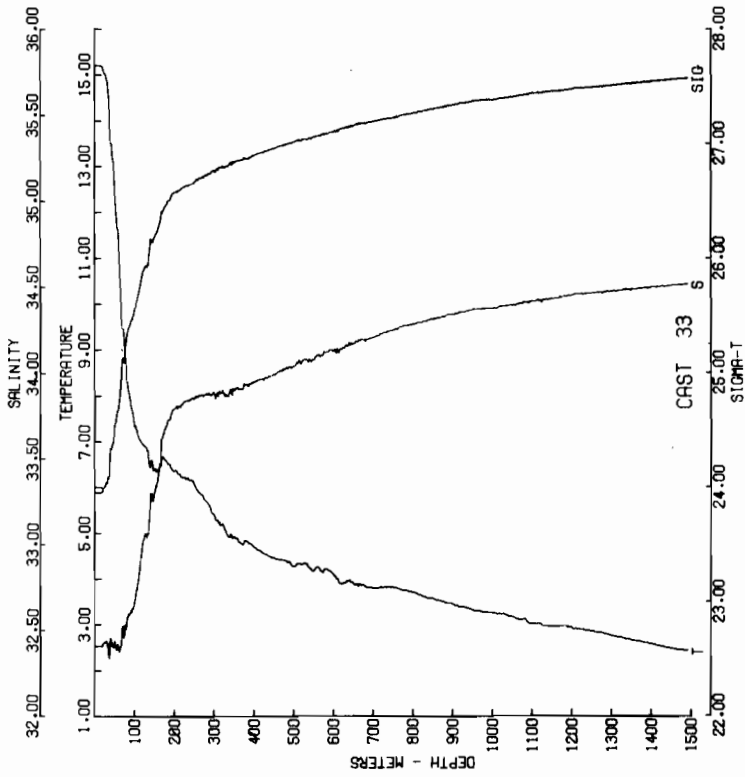
CAST RP-7-OC-832 DATE 11 SEP 73 TIME 1252 GMT
 LAT 48 59.6M LONG 129 59.5M WEATHER SEA STATE 4
 BAROMETER 1010.8 HGT 12.1 DEPTH 2519 M
 CLOUD X AMOUNT 9 DAY 13.0 REL 14.1 DEPTH 2519 M

DEPTH (M)	TEMPERATURE (C)	SALINITY (PPT)	SIGMA-T (DM/M)	DELTA-D (DM/M)
0	15.00	35.00	27.50	0.000
5	15.00	35.00	27.50	0.000
10	15.00	35.00	27.50	0.000
15	15.00	35.00	27.50	0.000
20	15.00	35.00	27.50	0.000
25	15.00	35.00	27.50	0.000
30	15.00	35.00	27.50	0.000
35	15.00	35.00	27.50	0.000
40	15.00	35.00	27.50	0.000
45	15.00	35.00	27.50	0.000
50	15.00	35.00	27.50	0.000
55	15.00	35.00	27.50	0.000
60	15.00	35.00	27.50	0.000
65	15.00	35.00	27.50	0.000
70	15.00	35.00	27.50	0.000
75	15.00	35.00	27.50	0.000
80	15.00	35.00	27.50	0.000
85	15.00	35.00	27.50	0.000
90	15.00	35.00	27.50	0.000
95	15.00	35.00	27.50	0.000
100	14.50	35.50	27.50	0.000
105	14.50	35.50	27.50	0.000
110	14.50	35.50	27.50	0.000
115	14.50	35.50	27.50	0.000
120	14.50	35.50	27.50	0.000
125	14.50	35.50	27.50	0.000
130	14.50	35.50	27.50	0.000
135	14.50	35.50	27.50	0.000
140	14.50	35.50	27.50	0.000
145	14.50	35.50	27.50	0.000
150	14.50	35.50	27.50	0.000
155	14.50	35.50	27.50	0.000
160	14.50	35.50	27.50	0.000



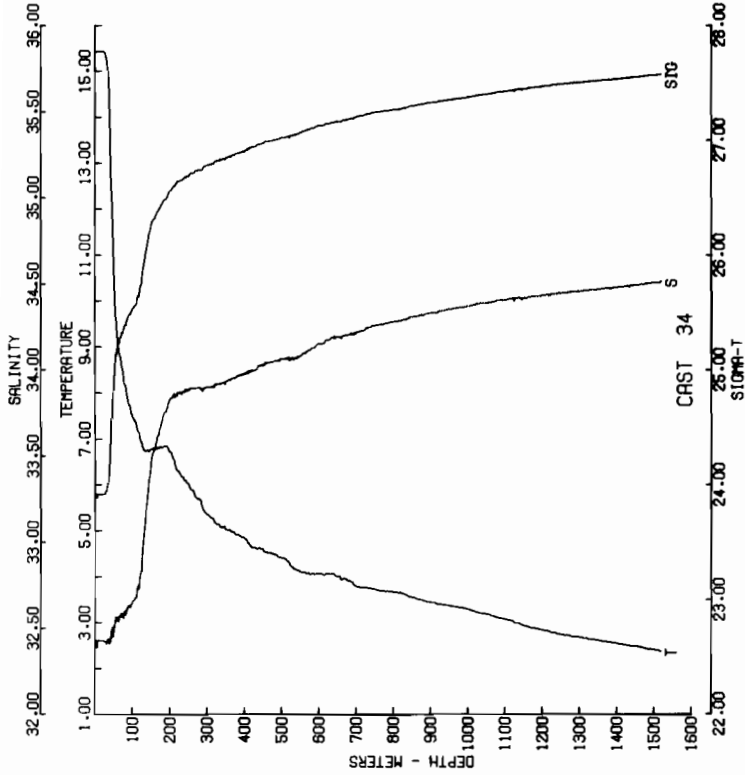
CAST RP-7-OC-831 DATE 11 SEP 73 TIME 0923 GMT
 LAT 48 59.6M LONG 129 59.5M WEATHER SEA STATE 4
 BAROMETER 1010.8 HGT 12.1 DEPTH 2519 M
 CLOUD X AMOUNT 9 DAY 13.0 REL 14.1 DEPTH 2519 M

DEPTH (M)	TEMPERATURE (C)	SALINITY (PPT)	SIGMA-T (DM/M)	DELTA-D (DM/M)
0	15.00	35.00	27.50	0.000
5	15.00	35.00	27.50	0.000
10	15.00	35.00	27.50	0.000
15	15.00	35.00	27.50	0.000
20	15.00	35.00	27.50	0.000
25	15.00	35.00	27.50	0.000
30	15.00	35.00	27.50	0.000
35	15.00	35.00	27.50	0.000
40	15.00	35.00	27.50	0.000
45	15.00	35.00	27.50	0.000
50	15.00	35.00	27.50	0.000
55	15.00	35.00	27.50	0.000
60	15.00	35.00	27.50	0.000
65	15.00	35.00	27.50	0.000
70	15.00	35.00	27.50	0.000
75	15.00	35.00	27.50	0.000
80	15.00	35.00	27.50	0.000
85	15.00	35.00	27.50	0.000
90	15.00	35.00	27.50	0.000
95	15.00	35.00	27.50	0.000
100	14.50	35.50	27.50	0.000
105	14.50	35.50	27.50	0.000
110	14.50	35.50	27.50	0.000
115	14.50	35.50	27.50	0.000
120	14.50	35.50	27.50	0.000
125	14.50	35.50	27.50	0.000
130	14.50	35.50	27.50	0.000
135	14.50	35.50	27.50	0.000
140	14.50	35.50	27.50	0.000
145	14.50	35.50	27.50	0.000
150	14.50	35.50	27.50	0.000
155	14.50	35.50	27.50	0.000
160	14.50	35.50	27.50	0.000



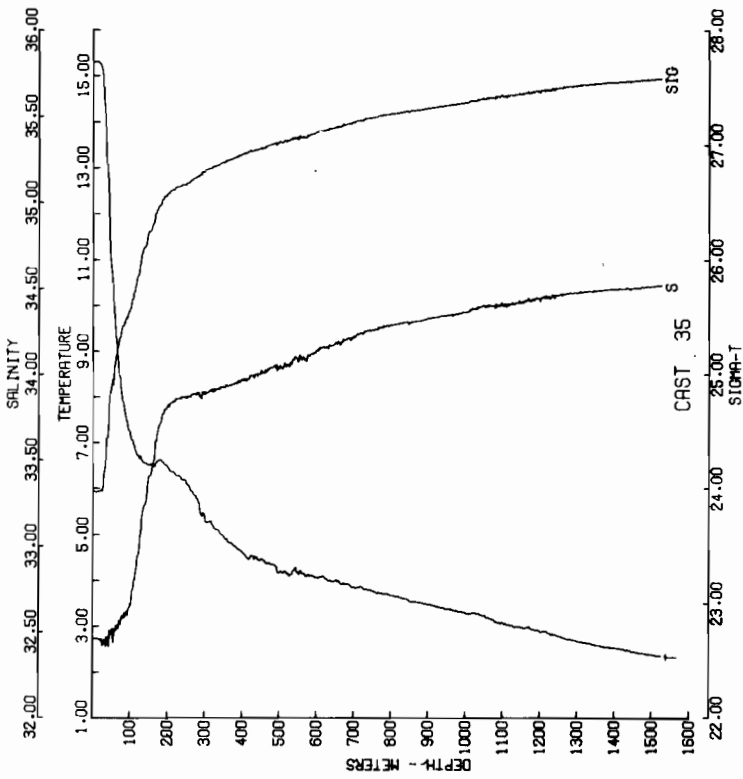
CAST #P7-00-033 DATE 11 SEP 72 TIME 1800 GMT
 STATION 18 L WIND DIR 268 T SPD 12 KF VISIBILITY 3
 BAROMETER 30.1 WIND DIR 310 T SPD 18 KF VISIBILITY 8
 CLOUD 6 AMOUNT 8 DRY 15.2 MET 15.2 DEPTH 2388 M

DEPTH (M)	TEMPERATURE (C)	SALINITY (PPT)	DELTA-T (DYN M)
0	15.0	32.41	0.000
5	15.0	32.41	0.020
10	15.0	32.41	0.040
15	15.0	32.41	0.060
20	15.0	32.41	0.080
25	15.0	32.41	0.099
30	15.0	32.41	0.119
35	15.0	32.41	0.139
40	15.0	32.41	0.159
45	15.0	32.41	0.175
50	15.0	32.41	0.192
75	15.0	32.41	0.271
100	15.0	32.41	0.350
200	15.0	32.41	0.525
300	15.0	32.41	0.667
400	15.0	32.41	0.809
500	15.0	32.41	1.024
600	15.0	32.41	1.154
700	15.0	32.41	1.275
800	15.0	32.41	1.386
900	15.0	32.41	1.488
1000	15.0	32.41	1.581
1100	15.0	32.41	1.666
1200	15.0	32.41	1.743
1300	15.0	32.41	1.812
1400	15.0	32.41	1.874
1500	15.0	32.41	1.929



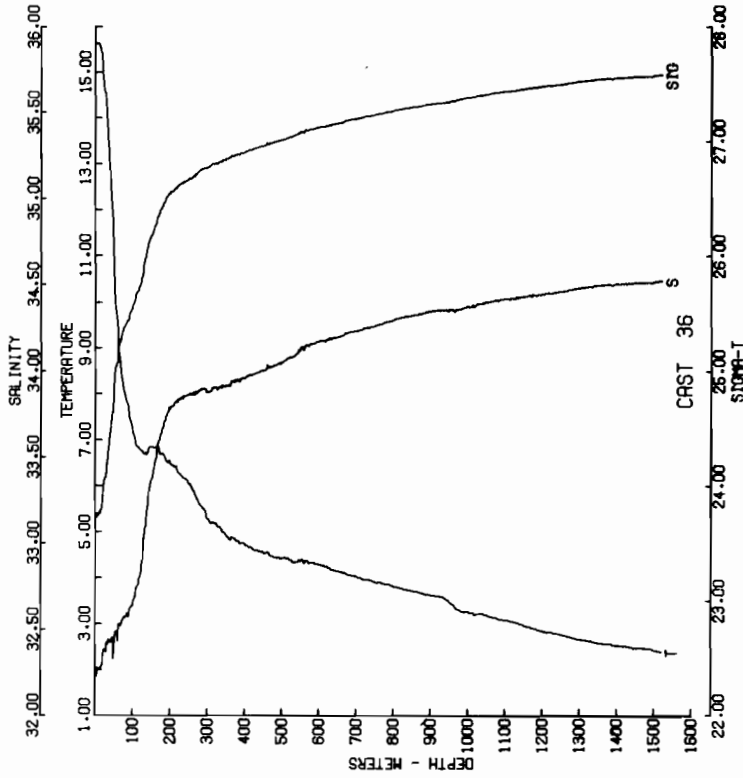
CAST #P7-00-034 DATE 11 SEP 72 TIME 1912 GMT
 STATION 18 L WIND DIR 268 T SPD 12 KF VISIBILITY 3
 BAROMETER 30.1 WIND DIR 310 T SPD 18 KF VISIBILITY 8
 CLOUD 6 AMOUNT 3 DRY 16.8 MET 13.3 DEPTH 2696 M

DEPTH (M)	TEMPERATURE (C)	SALINITY (PPT)	DELTA-T (DYN M)
0	15.0	32.41	0.000
5	15.0	32.41	0.020
10	15.0	32.41	0.040
15	15.0	32.41	0.060
20	15.0	32.41	0.080
25	15.0	32.41	0.099
30	15.0	32.41	0.119
35	15.0	32.41	0.139
40	15.0	32.41	0.159
45	15.0	32.41	0.175
50	15.0	32.41	0.192
75	15.0	32.41	0.271
100	15.0	32.41	0.350
200	15.0	32.41	0.525
300	15.0	32.41	0.667
400	15.0	32.41	0.809
500	15.0	32.41	1.024
600	15.0	32.41	1.154
700	15.0	32.41	1.275
800	15.0	32.41	1.386
900	15.0	32.41	1.488
1000	15.0	32.41	1.581
1100	15.0	32.41	1.666
1200	15.0	32.41	1.743
1300	15.0	32.41	1.812
1400	15.0	32.41	1.874
1500	15.0	32.41	1.929



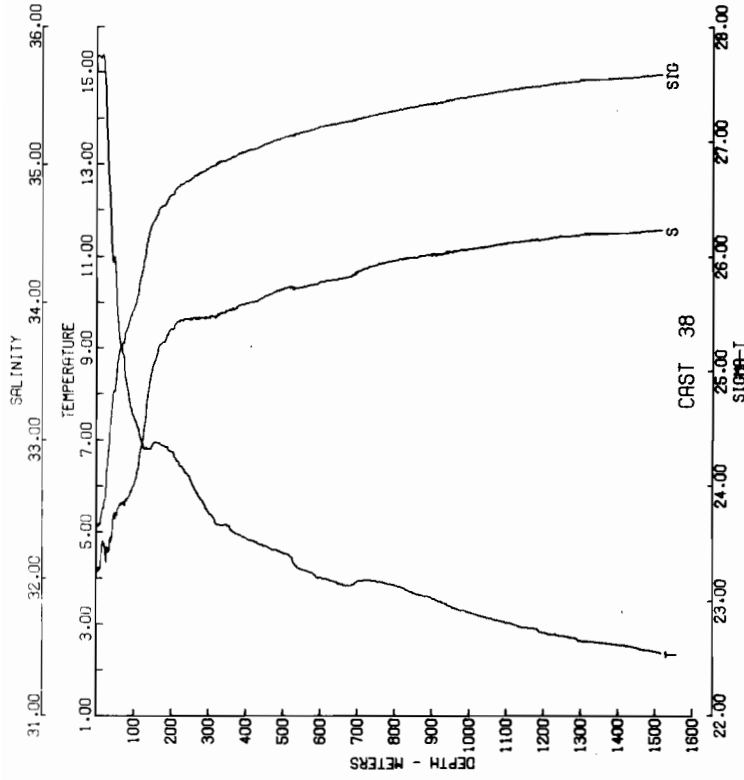
CAST RP-7-00-035 DATE 11 SEP 73 TIME 2201 GMT
 LAT 48 23.3N LONG 159 56.8W MEASUREMENTS
 SURFACE WIND DIR 137 DIR 13.2 WIND 18.8 M
 CLOUD 6 AMOUNT 6 DIR 15.7 DIR 15.2 DEPTH 209 M

DEPTH (M)	TEMPERATURE (C)	SALINITY (PPT)	SIGMA-T (DMN M)	DELTA-D (DMN M)
0	15.2	32.4	23.5	0.000
1	12.3	32.4	23.5	0.000
2	12.3	32.4	23.5	0.000
3	12.3	32.4	23.5	0.000
4	12.3	32.4	23.5	0.000
5	12.3	32.4	23.5	0.000
10	12.3	32.4	23.5	0.000
15	12.3	32.4	23.5	0.000
20	12.3	32.4	23.5	0.000
25	12.3	32.4	23.5	0.000
30	12.3	32.4	23.5	0.000
35	12.3	32.4	23.5	0.000
40	12.3	32.4	23.5	0.000
45	12.3	32.4	23.5	0.000
50	12.3	32.4	23.5	0.000
55	12.3	32.4	23.5	0.000
60	12.3	32.4	23.5	0.000
65	12.3	32.4	23.5	0.000
70	12.3	32.4	23.5	0.000
75	12.3	32.4	23.5	0.000
80	12.3	32.4	23.5	0.000
85	12.3	32.4	23.5	0.000
90	12.3	32.4	23.5	0.000
95	12.3	32.4	23.5	0.000
100	12.3	32.4	23.5	0.000
105	12.3	32.4	23.5	0.000
110	12.3	32.4	23.5	0.000
115	12.3	32.4	23.5	0.000
120	12.3	32.4	23.5	0.000
125	12.3	32.4	23.5	0.000
130	12.3	32.4	23.5	0.000
135	12.3	32.4	23.5	0.000
140	12.3	32.4	23.5	0.000
145	12.3	32.4	23.5	0.000
150	12.3	32.4	23.5	0.000
155	12.3	32.4	23.5	0.000
160	12.3	32.4	23.5	0.000



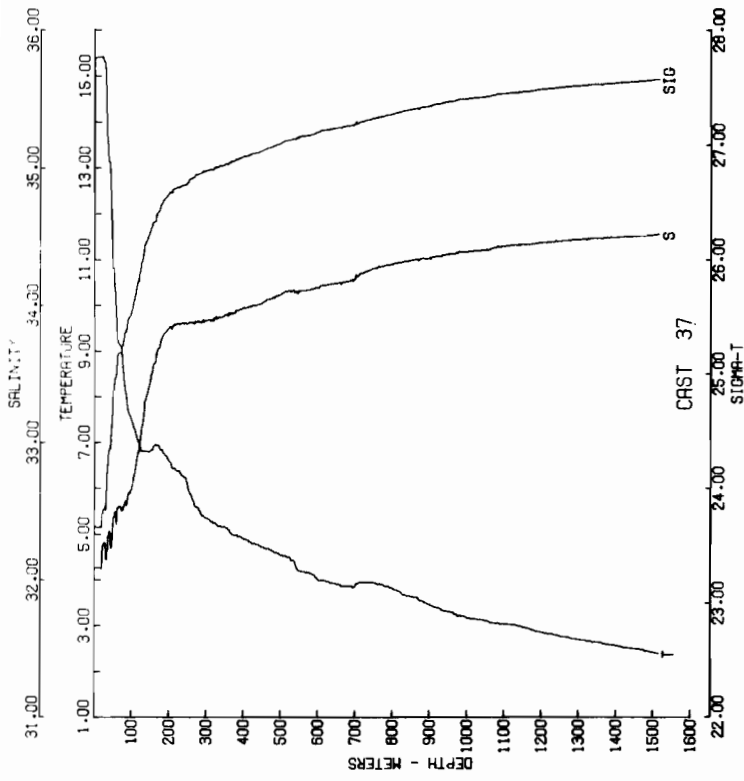
CAST RP-7-00-036 DATE 12 SEP 73 TIME 0827 GMT
 LAT 48 23.3N LONG 159 56.8W MEASUREMENTS
 SURFACE WIND DIR 137 DIR 13.2 WIND 18.8 M
 CLOUD 6 AMOUNT 6 DIR 15.7 DIR 15.2 DEPTH 1085 M

DEPTH (M)	TEMPERATURE (C)	SALINITY (PPT)	SIGMA-T (DMN M)	DELTA-D (DMN M)
0	15.2	32.4	23.5	0.000
1	12.3	32.4	23.5	0.000
2	12.3	32.4	23.5	0.000
3	12.3	32.4	23.5	0.000
4	12.3	32.4	23.5	0.000
5	12.3	32.4	23.5	0.000
10	12.3	32.4	23.5	0.000
15	12.3	32.4	23.5	0.000
20	12.3	32.4	23.5	0.000
25	12.3	32.4	23.5	0.000
30	12.3	32.4	23.5	0.000
35	12.3	32.4	23.5	0.000
40	12.3	32.4	23.5	0.000
45	12.3	32.4	23.5	0.000
50	12.3	32.4	23.5	0.000
55	12.3	32.4	23.5	0.000
60	12.3	32.4	23.5	0.000
65	12.3	32.4	23.5	0.000
70	12.3	32.4	23.5	0.000
75	12.3	32.4	23.5	0.000
80	12.3	32.4	23.5	0.000
85	12.3	32.4	23.5	0.000
90	12.3	32.4	23.5	0.000
95	12.3	32.4	23.5	0.000
100	12.3	32.4	23.5	0.000
105	12.3	32.4	23.5	0.000
110	12.3	32.4	23.5	0.000
115	12.3	32.4	23.5	0.000
120	12.3	32.4	23.5	0.000
125	12.3	32.4	23.5	0.000
130	12.3	32.4	23.5	0.000
135	12.3	32.4	23.5	0.000
140	12.3	32.4	23.5	0.000
145	12.3	32.4	23.5	0.000
150	12.3	32.4	23.5	0.000
155	12.3	32.4	23.5	0.000
160	12.3	32.4	23.5	0.000



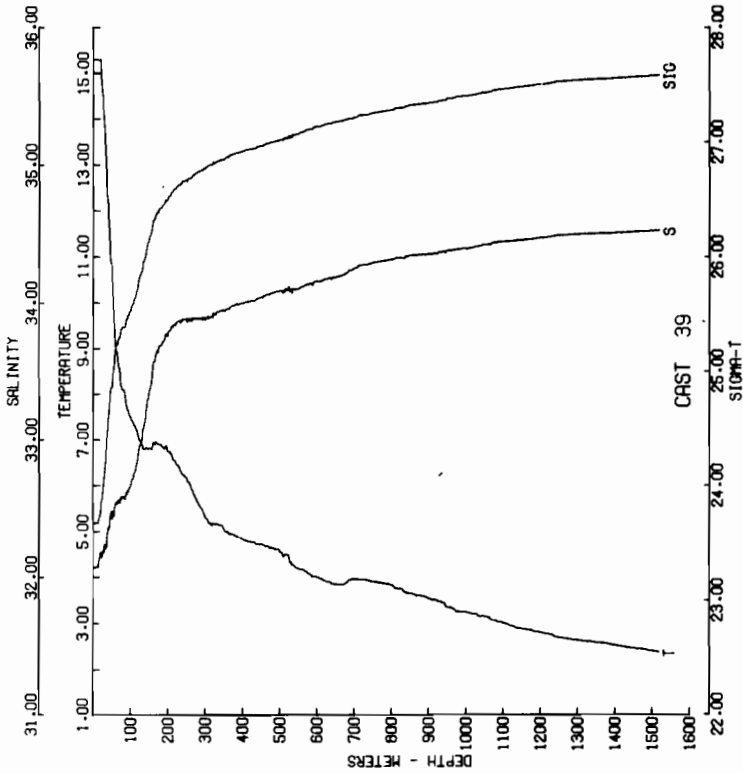
CAST RP-7-CC-038 DATE 12 SEP 73 TIME 0445 GMT
 LAT 46 19 0N LONG 129 33 2W WEATHER SEA STATE 4
 SURFACE WIND DIR 347 T SPD 16 KT VISIB 1316
 BAROMETER 22 WIND DIR 149 WIND 12.2
 CLOUD X AMOUNT 9 DRY 14.9 WET 22.9 H

DEPTH (M)	TEMPERATURE (C)	SALINITY (PPT)	SIGMA-T	DELTA-S
0	15.36	32.04	23.66	0.000
1	15.35	32.05	23.66	.021
10	15.35	32.05	23.66	.063
20	15.35	32.05	23.66	.099
30	15.35	32.05	23.66	.122
40	15.35	32.05	23.66	.139
50	15.35	32.05	23.66	.155
60	15.35	32.05	23.66	.172
70	15.35	32.05	23.66	.187
80	15.35	32.05	23.66	.202
90	15.35	32.05	23.66	.217
100	15.35	32.05	23.66	.232
150	15.35	32.05	23.66	.266
200	15.35	32.05	23.66	.299
300	15.35	32.05	23.66	.377
400	15.35	32.05	23.66	.440
500	15.35	32.05	23.66	.498
600	15.35	32.05	23.66	.551
700	15.35	32.05	23.66	.599
800	15.35	32.05	23.66	.642
900	15.35	32.05	23.66	.680
1000	15.35	32.05	23.66	.713
1100	15.35	32.05	23.66	.741
1200	15.35	32.05	23.66	.764
1300	15.35	32.05	23.66	.782
1400	15.35	32.05	23.66	.796
1500	15.35	32.05	23.66	.806
1600	15.35	32.05	23.66	.812



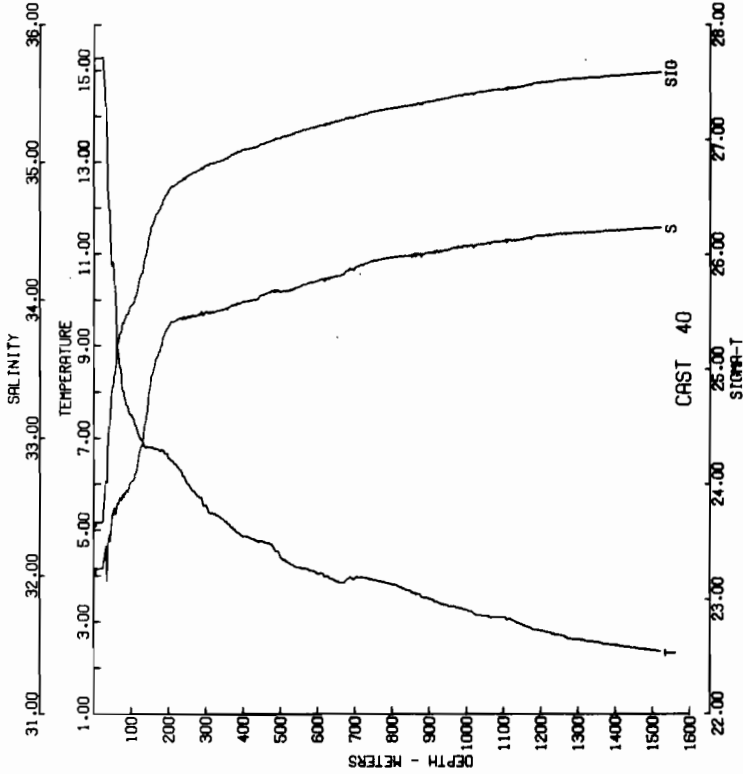
CAST RP-7-CC-037 DATE 12 SEP 73 TIME 0315 GMT
 LAT 46 19 0N LONG 129 33 2W WEATHER SEA STATE 4
 SURFACE WIND DIR 352 T SPD 16 KT VISIB 1316
 BAROMETER 22 WIND DIR 149 WIND 12.2
 CLOUD 6 AMOUNT 5 DRY 14.9 WET 24.9 H

DEPTH (M)	TEMPERATURE (C)	SALINITY (PPT)	SIGMA-T	DELTA-S
0	15.38	32.09	23.67	0.000
1	15.40	32.09	23.67	.021
10	15.42	32.09	23.67	.044
20	15.42	32.09	23.67	.066
30	15.42	32.09	23.67	.085
40	15.42	32.09	23.67	.106
50	15.42	32.09	23.67	.122
60	15.42	32.09	23.67	.139
70	15.42	32.09	23.67	.155
80	15.42	32.09	23.67	.172
90	15.42	32.09	23.67	.187
100	15.42	32.09	23.67	.202
150	15.42	32.09	23.67	.236
200	15.42	32.09	23.67	.269
300	15.42	32.09	23.67	.347
400	15.42	32.09	23.67	.410
500	15.42	32.09	23.67	.468
600	15.42	32.09	23.67	.521
700	15.42	32.09	23.67	.569
800	15.42	32.09	23.67	.612
900	15.42	32.09	23.67	.650
1000	15.42	32.09	23.67	.683
1100	15.42	32.09	23.67	.711
1200	15.42	32.09	23.67	.734
1300	15.42	32.09	23.67	.752
1400	15.42	32.09	23.67	.766
1500	15.42	32.09	23.67	.776
1600	15.42	32.09	23.67	.782



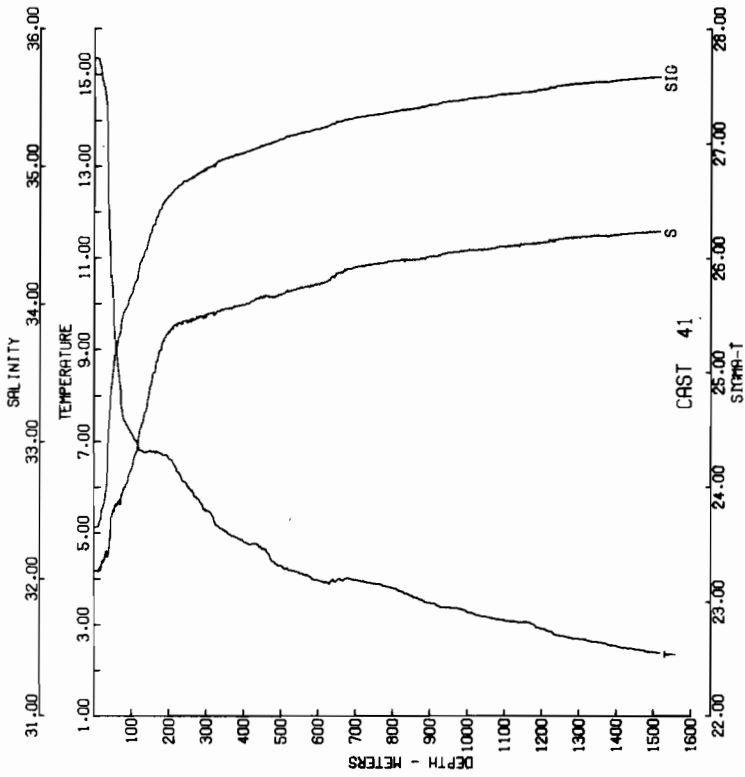
CAST RP-7-0C-039 DATE 12 SEP 73 TIME 0815 GMT
 LAT 48 13 0N LONG 129 22 1W HEATHER SEA STATE 4
 BAROMETER 28.1 IN HG OAR 35.1 MET 17 KI
 CLOUD 3 AMOUNT 5 DRY 14.3 WET 11.8 DEPTH 246 M

DEPTH (M)	TEMPERATURE (C)	SALINITY (PPT)	SIGMA-T (DYN M)	DELTA-S
0	15.33	32.07	23.67	0.000
1	15.33	32.07	23.67	.021
2	15.33	32.07	23.67	.043
3	15.33	32.07	23.67	.065
4	15.33	32.07	23.67	.087
5	15.33	32.07	23.67	.109
10	15.33	32.07	23.67	.131
15	15.33	32.07	23.67	.153
20	15.33	32.07	23.67	.175
25	15.33	32.07	23.67	.197
30	15.33	32.07	23.67	.219
35	15.33	32.07	23.67	.241
40	15.33	32.07	23.67	.263
45	15.33	32.07	23.67	.285
50	15.33	32.07	23.67	.307
55	15.33	32.07	23.67	.329
60	15.33	32.07	23.67	.351
65	15.33	32.07	23.67	.373
70	15.33	32.07	23.67	.395
75	15.33	32.07	23.67	.417
80	15.33	32.07	23.67	.439
85	15.33	32.07	23.67	.461
90	15.33	32.07	23.67	.483
95	15.33	32.07	23.67	.505
100	15.33	32.07	23.67	.527
105	15.33	32.07	23.67	.549
110	15.33	32.07	23.67	.571
115	15.33	32.07	23.67	.593
120	15.33	32.07	23.67	.615
125	15.33	32.07	23.67	.637
130	15.33	32.07	23.67	.659
135	15.33	32.07	23.67	.681
140	15.33	32.07	23.67	.703
145	15.33	32.07	23.67	.725
150	15.33	32.07	23.67	.747
155	15.33	32.07	23.67	.769
160	15.33	32.07	23.67	.791
165	15.33	32.07	23.67	.813
170	15.33	32.07	23.67	.835
175	15.33	32.07	23.67	.857
180	15.33	32.07	23.67	.879
185	15.33	32.07	23.67	.901
190	15.33	32.07	23.67	.923
195	15.33	32.07	23.67	.945
200	15.33	32.07	23.67	.967
205	15.33	32.07	23.67	.989
210	15.33	32.07	23.67	1.011
215	15.33	32.07	23.67	1.033
220	15.33	32.07	23.67	1.055
225	15.33	32.07	23.67	1.077
230	15.33	32.07	23.67	1.099
235	15.33	32.07	23.67	1.121
240	15.33	32.07	23.67	1.143
245	15.33	32.07	23.67	1.165
250	15.33	32.07	23.67	1.187
255	15.33	32.07	23.67	1.209
260	15.33	32.07	23.67	1.231
265	15.33	32.07	23.67	1.253
270	15.33	32.07	23.67	1.275
275	15.33	32.07	23.67	1.297
280	15.33	32.07	23.67	1.319



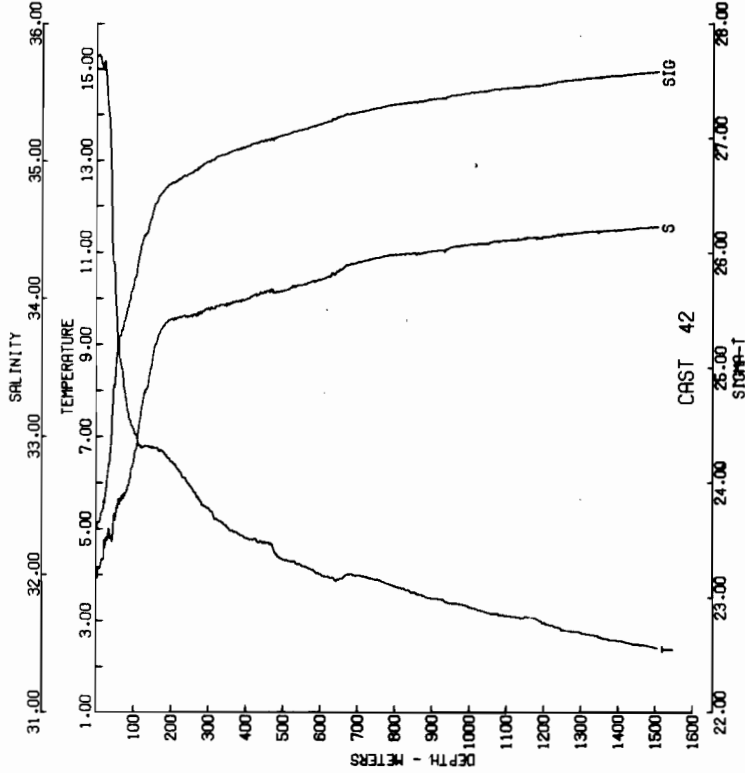
CAST RP-7-0C-040 DATE 12 SEP 73 TIME 0746 GMT
 LAT 48 20 2N LONG 129 08 0W HEATHER SEA STATE 4
 BAROMETER 28.1 IN HG OAR 35.1 MET 17 KI
 CLOUD 3 AMOUNT 6 DRY 14.2 WET 12.6 DEPTH 213 M

DEPTH (M)	TEMPERATURE (C)	SALINITY (PPT)	SIGMA-T (DYN M)	DELTA-S
0	15.22	32.05	23.66	0.000
1	15.22	32.05	23.66	.021
2	15.22	32.05	23.66	.043
3	15.22	32.05	23.66	.065
4	15.22	32.05	23.66	.087
5	15.22	32.05	23.66	.109
10	15.22	32.05	23.66	.131
15	15.22	32.05	23.66	.153
20	15.22	32.05	23.66	.175
25	15.22	32.05	23.66	.197
30	15.22	32.05	23.66	.219
35	15.22	32.05	23.66	.241
40	15.22	32.05	23.66	.263
45	15.22	32.05	23.66	.285
50	15.22	32.05	23.66	.307
55	15.22	32.05	23.66	.329
60	15.22	32.05	23.66	.351
65	15.22	32.05	23.66	.373
70	15.22	32.05	23.66	.395
75	15.22	32.05	23.66	.417
80	15.22	32.05	23.66	.439
85	15.22	32.05	23.66	.461
90	15.22	32.05	23.66	.483
95	15.22	32.05	23.66	.505
100	15.22	32.05	23.66	.527
105	15.22	32.05	23.66	.549
110	15.22	32.05	23.66	.571
115	15.22	32.05	23.66	.593
120	15.22	32.05	23.66	.615
125	15.22	32.05	23.66	.637
130	15.22	32.05	23.66	.659
135	15.22	32.05	23.66	.681
140	15.22	32.05	23.66	.703
145	15.22	32.05	23.66	.725
150	15.22	32.05	23.66	.747
155	15.22	32.05	23.66	.769
160	15.22	32.05	23.66	.791
165	15.22	32.05	23.66	.813
170	15.22	32.05	23.66	.835
175	15.22	32.05	23.66	.857
180	15.22	32.05	23.66	.879
185	15.22	32.05	23.66	.901
190	15.22	32.05	23.66	.923
195	15.22	32.05	23.66	.945
200	15.22	32.05	23.66	.967
205	15.22	32.05	23.66	.989
210	15.22	32.05	23.66	1.011
215	15.22	32.05	23.66	1.033
220	15.22	32.05	23.66	1.055
225	15.22	32.05	23.66	1.077
230	15.22	32.05	23.66	1.099
235	15.22	32.05	23.66	1.121
240	15.22	32.05	23.66	1.143
245	15.22	32.05	23.66	1.165
250	15.22	32.05	23.66	1.187
255	15.22	32.05	23.66	1.209
260	15.22	32.05	23.66	1.231
265	15.22	32.05	23.66	1.253
270	15.22	32.05	23.66	1.275
275	15.22	32.05	23.66	1.297
280	15.22	32.05	23.66	1.319



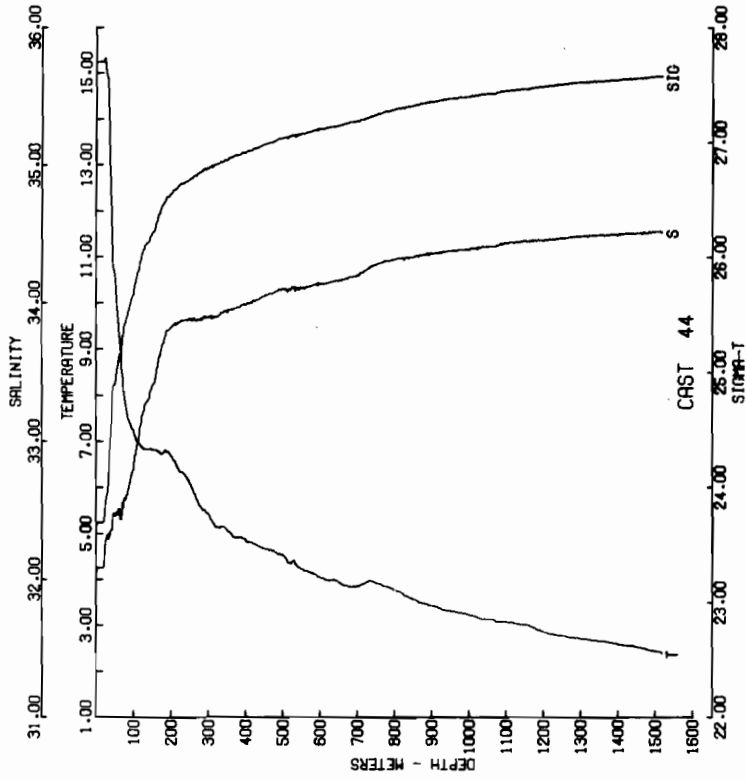
CAST RP-7-CC-041 DATE 12 SEP 73 TIME 0915 GMT
 LAT 48 19.8N LONG 129 19.8W WEATHER 1 SEA STATE 3
 BAROMETER 31 WIND DIR 001 T SPD 13 KT VISIBILITY 7
 CLOUD 4 AMOUNT 7 DRY 14.1 WET 11.3 DEPTH 210 M

DEPTH (M)	TEMPERATURE (C)	SALINITY (PPT)	SIGMA-T (DYN CM)	DELTA-D
0	15.38	32.06	23.52	0.00
5	15.37	32.06	23.52	0.00
10	15.35	32.06	23.52	0.00
15	15.29	32.06	23.52	0.00
20	15.27	32.06	23.52	0.00
25	15.26	32.06	23.52	0.00
30	15.26	32.06	23.52	0.00
35	15.26	32.06	23.52	0.00
40	15.26	32.06	23.52	0.00
45	15.26	32.06	23.52	0.00
50	15.26	32.06	23.52	0.00
60	15.26	32.06	23.52	0.00
70	15.26	32.06	23.52	0.00
80	15.26	32.06	23.52	0.00
90	15.26	32.06	23.52	0.00
100	15.26	32.06	23.52	0.00
110	15.26	32.06	23.52	0.00
120	15.26	32.06	23.52	0.00
130	15.26	32.06	23.52	0.00
140	15.26	32.06	23.52	0.00
150	15.26	32.06	23.52	0.00
160	15.26	32.06	23.52	0.00



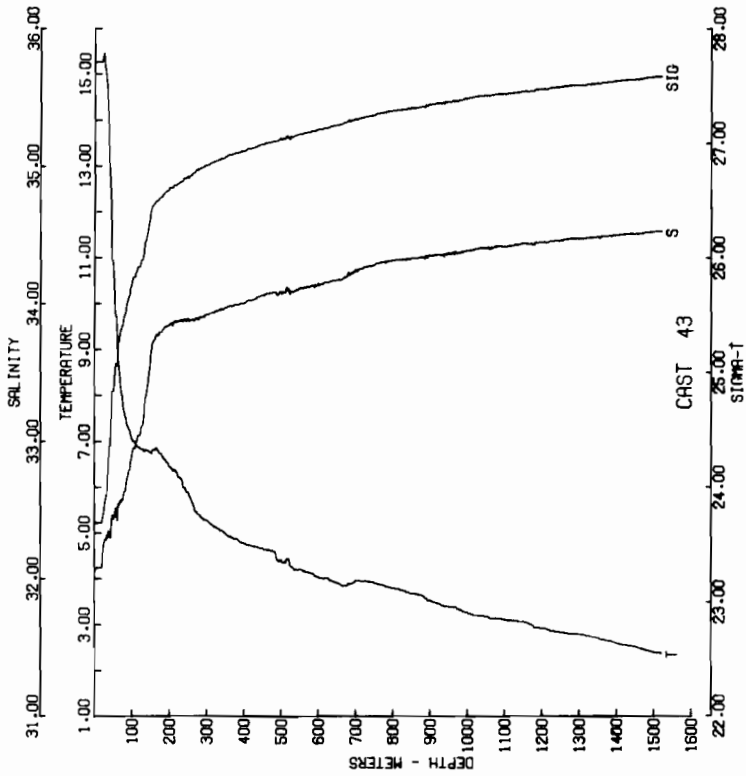
CAST RP-7-OC-042 DATE 12 SEP 73 TIME 1045 GMT
 LAT 48 19.8N LONG 129 20.8W WEATHER 1 SEA STATE 3
 BAROMETER 31 WIND DIR 001 T SPD 13 KT VISIBILITY 7
 CLOUD 4 AMOUNT 7 DRY 14.3 WET 11.4 DEPTH 225 M

DEPTH (M)	TEMPERATURE (C)	SALINITY (PPT)	SIGMA-T (DYN CM)	DELTA-D
0	15.27	33.00	23.52	0.00
5	15.27	33.00	23.52	0.00
10	15.27	33.00	23.52	0.00
15	15.27	33.00	23.52	0.00
20	15.27	33.00	23.52	0.00
25	15.27	33.00	23.52	0.00
30	15.27	33.00	23.52	0.00
35	15.27	33.00	23.52	0.00
40	15.27	33.00	23.52	0.00
45	15.27	33.00	23.52	0.00
50	15.27	33.00	23.52	0.00
60	15.27	33.00	23.52	0.00
70	15.27	33.00	23.52	0.00
80	15.27	33.00	23.52	0.00
90	15.27	33.00	23.52	0.00
100	15.27	33.00	23.52	0.00
110	15.27	33.00	23.52	0.00
120	15.27	33.00	23.52	0.00
130	15.27	33.00	23.52	0.00
140	15.27	33.00	23.52	0.00
150	15.27	33.00	23.52	0.00
160	15.27	33.00	23.52	0.00



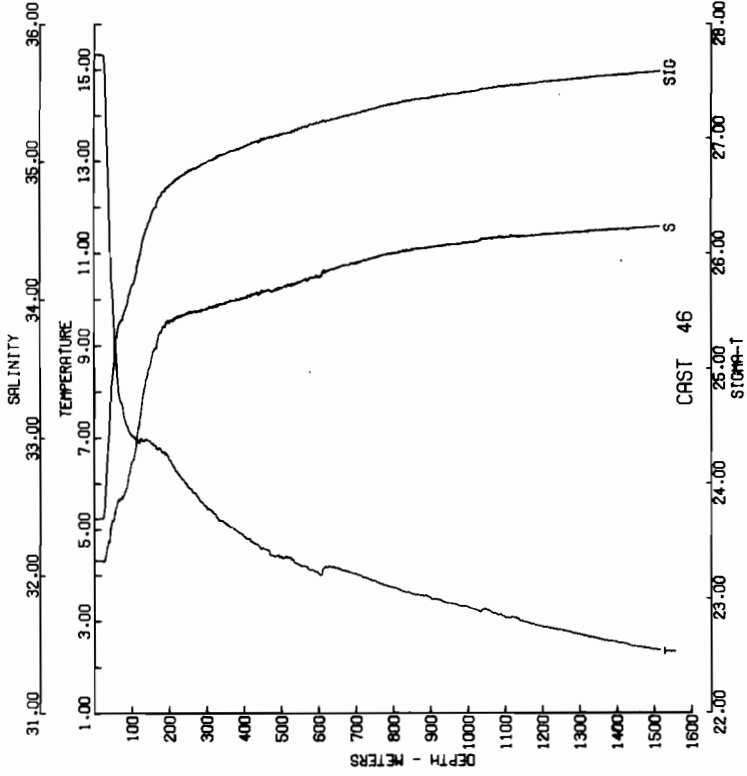
CAST 44
 DATE 12 SEP 73 TIME 1345 GMT
 LAT 40 19.6N LONG 129 21.3W WEATHER 1
 SEA STATE 3
 BAROMETER 21 WIND DIR 080 T SPD 14 K VISIBILITY 6
 CLOUD 6 AMOUNT 6 DRY 14.5 MET 11.4 DEPTH 2542 M

DEPTH (M)	TEMPERATURE (C)	SALINITY (PPT)	SIGMA-T (DYN M)	DELTA-D
0	25.25	35.67	27.67	0.000
1	15.225	35.69	27.69	.021
5	15.225	35.69	27.69	.021
10	15.225	35.69	27.69	.021
20	15.225	35.69	27.69	.021
30	15.225	35.69	27.69	.021
40	15.225	35.69	27.69	.021
50	15.225	35.69	27.69	.021
60	15.225	35.69	27.69	.021
70	15.225	35.69	27.69	.021
80	15.225	35.69	27.69	.021
90	15.225	35.69	27.69	.021
100	15.225	35.69	27.69	.021
150	15.225	35.69	27.69	.021
200	15.225	35.69	27.69	.021
300	15.225	35.69	27.69	.021
400	15.225	35.69	27.69	.021
500	15.225	35.69	27.69	.021
600	15.225	35.69	27.69	.021
700	15.225	35.69	27.69	.021
800	15.225	35.69	27.69	.021
900	15.225	35.69	27.69	.021
1000	15.225	35.69	27.69	.021
1100	15.225	35.69	27.69	.021
1200	15.225	35.69	27.69	.021
1300	15.225	35.69	27.69	.021
1400	15.225	35.69	27.69	.021
1500	15.225	35.69	27.69	.021
1600	15.225	35.69	27.69	.021



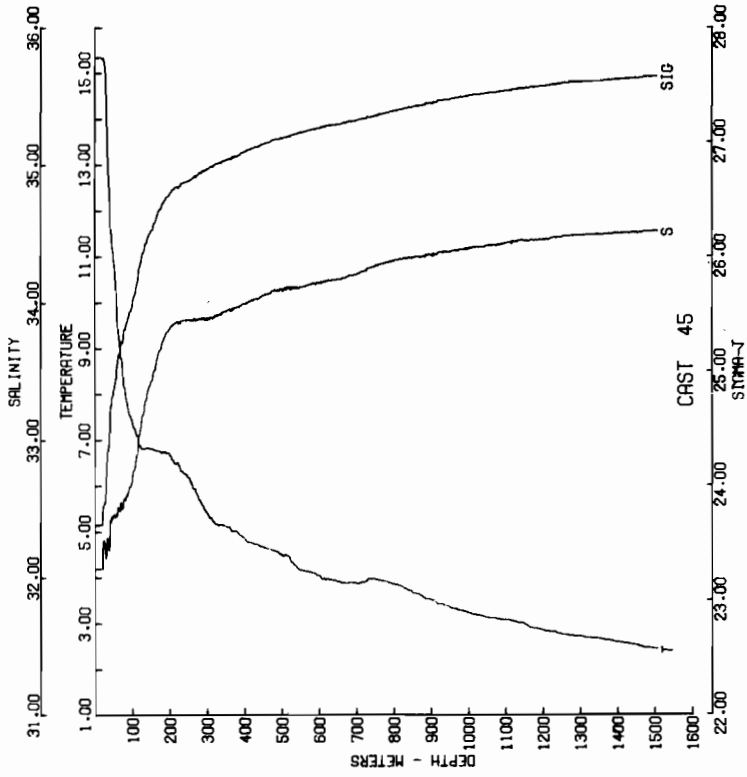
CAST 43
 DATE 12 SEP 73 TIME 1215 GMT
 LAT 40 19.6N LONG 129 21.4W WEATHER 1
 SEA STATE 3
 BAROMETER 21 WIND DIR 340 T SPD 15 K VISIBILITY 6
 CLOUD 6 AMOUNT 5 DRY 14.0 MET 11.2 DEPTH 2467 M

DEPTH (M)	TEMPERATURE (C)	SALINITY (PPT)	SIGMA-T (DYN M)	DELTA-D
0	25.25	35.67	27.67	0.000
1	15.225	35.69	27.69	.021
5	15.225	35.69	27.69	.021
10	15.225	35.69	27.69	.021
20	15.225	35.69	27.69	.021
30	15.225	35.69	27.69	.021
40	15.225	35.69	27.69	.021
50	15.225	35.69	27.69	.021
60	15.225	35.69	27.69	.021
70	15.225	35.69	27.69	.021
80	15.225	35.69	27.69	.021
90	15.225	35.69	27.69	.021
100	15.225	35.69	27.69	.021
150	15.225	35.69	27.69	.021
200	15.225	35.69	27.69	.021
300	15.225	35.69	27.69	.021
400	15.225	35.69	27.69	.021
500	15.225	35.69	27.69	.021
600	15.225	35.69	27.69	.021
700	15.225	35.69	27.69	.021
800	15.225	35.69	27.69	.021
900	15.225	35.69	27.69	.021
1000	15.225	35.69	27.69	.021
1100	15.225	35.69	27.69	.021
1200	15.225	35.69	27.69	.021
1300	15.225	35.69	27.69	.021
1400	15.225	35.69	27.69	.021
1500	15.225	35.69	27.69	.021
1600	15.225	35.69	27.69	.021



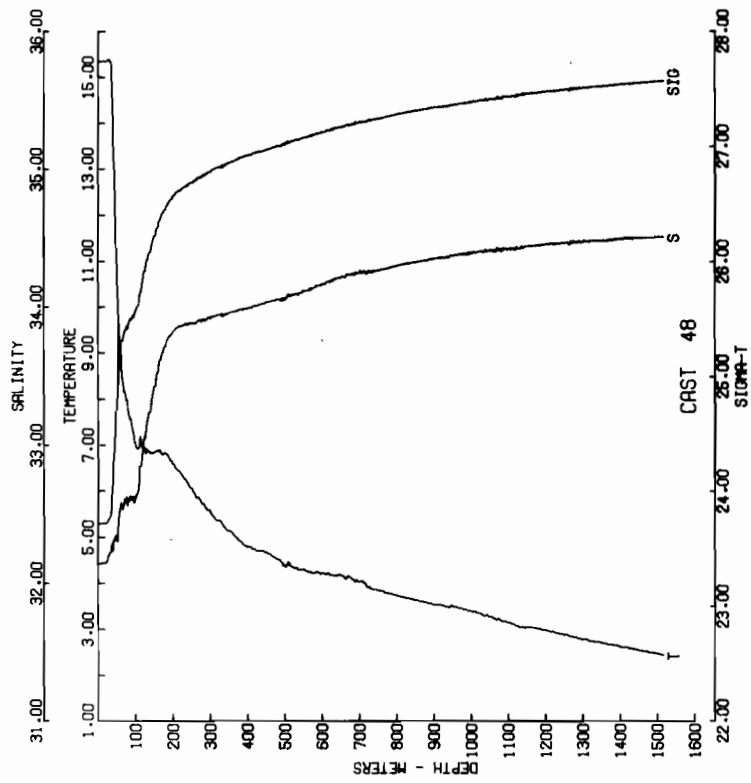
CAST RP-7-0C-046 DATE 12 SEP 73 TIME 1916 GMT
 LAT 48.19.3N LONG 128.43.1W WEATHER SEA STATE 4
 BAROMETER 1019.3 WIND DIR 340 T SPD 12.4 VISIBILITY 7
 CLOUD 6 AMOUNT 2 DRY 15.9 MET 13.1 DEPTH 2448 M

DEPTH (M)	TEMPERATURE (C)	SALINITY (PPT)	SIGMA-T	DELTA-D (DTN M)
0	15.34	32.11	26.70	0.000
5	15.34	32.11	26.70	.021
10	15.34	32.11	26.70	.063
20	15.34	32.11	26.70	.105
30	15.34	32.11	26.70	.147
40	15.34	32.11	26.70	.189
50	15.34	32.11	26.70	.231
75	15.34	32.11	26.70	.273
100	15.34	32.11	26.70	.315
150	15.34	32.11	26.70	.357
200	15.34	32.11	26.70	.399
300	15.34	32.11	26.70	.441
400	15.34	32.11	26.70	.483
500	15.34	32.11	26.70	.525
600	15.34	32.11	26.70	.567
700	15.34	32.11	26.70	.609
800	15.34	32.11	26.70	.651
900	15.34	32.11	26.70	.693
1000	15.34	32.11	26.70	.735
1100	15.34	32.11	26.70	.777
1200	15.34	32.11	26.70	.819
1300	15.34	32.11	26.70	.861
1400	15.34	32.11	26.70	.903
1500	15.34	32.11	26.70	.945
1600	15.34	32.11	26.70	.987



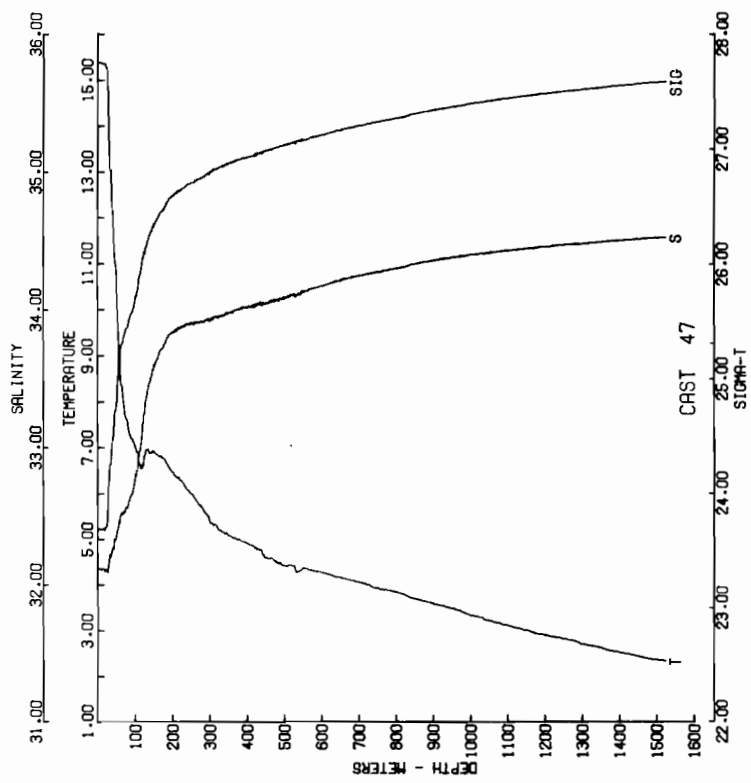
CAST RP-7-0C-045 DATE 12 SEP 73 TIME 1516 GMT
 LAT 48.19.7N LONG 129.52.3W WEATHER 2 SEA STATE 3
 BAROMETER 1019.3 WIND DIR 005 T SPD 13.4 VISIBILITY 6
 CLOUD 6 AMOUNT 6 DRY 14.8 MET 12.6 DEPTH 2337 M

DEPTH (M)	TEMPERATURE (C)	SALINITY (PPT)	SIGMA-T	DELTA-D (DTN M)
0	15.36	32.06	26.95	0.000
5	15.34	32.06	26.95	.062
10	15.34	32.06	26.95	.124
20	15.34	32.06	26.95	.186
30	15.34	32.06	26.95	.248
40	15.34	32.06	26.95	.310
50	15.34	32.06	26.95	.372
75	15.34	32.06	26.95	.434
100	15.34	32.06	26.95	.496
150	15.34	32.06	26.95	.558
200	15.34	32.06	26.95	.620
300	15.34	32.06	26.95	.682
400	15.34	32.06	26.95	.744
500	15.34	32.06	26.95	.806
600	15.34	32.06	26.95	.868
700	15.34	32.06	26.95	.930
800	15.34	32.06	26.95	.992
900	15.34	32.06	26.95	1.054
1000	15.34	32.06	26.95	1.116
1100	15.34	32.06	26.95	1.178
1200	15.34	32.06	26.95	1.240
1300	15.34	32.06	26.95	1.302
1400	15.34	32.06	26.95	1.364
1500	15.34	32.06	26.95	1.426
1600	15.34	32.06	26.95	1.488



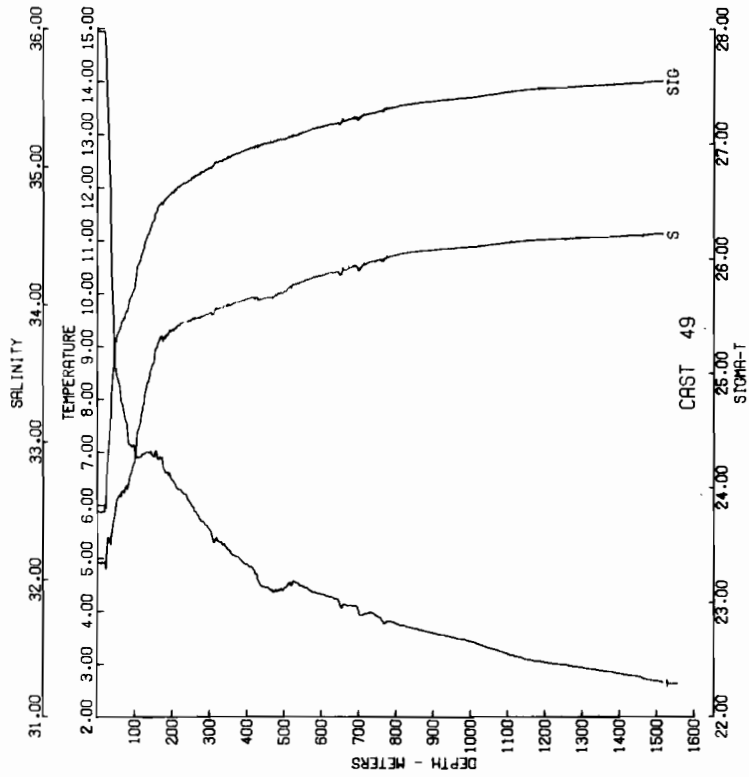
CAST 47-00-047 DATE 12 SEP 73 TIME 2239 GMT
 ELEM 13 METERS 1 TIME 2119 GMT
 SURFACE WIND DIR 137 T SPD 18.4 M VISIBILITY 6
 BAROMETR 1013.8 WIND DIR 14.1 MET 12.2 DEPTH 2684 M
 CLOUD 6 AMOUNT 2 DRY 13.1 DEPTH 2576 M

DEPTH (M)	TEMPERATURE (C)	SALINITY (PPT)	SIGMA-T (DN M)	DELTA-D (DN M)
0	15.37	34.51	27.57	0.000
1	15.35	34.51	27.57	.021
2	15.33	34.51	27.57	.042
3	15.31	34.51	27.57	.063
4	15.29	34.51	27.57	.084
5	15.27	34.51	27.57	.105
6	15.25	34.51	27.57	.126
7	15.23	34.51	27.57	.147
8	15.21	34.51	27.57	.168
9	15.19	34.51	27.57	.189
10	15.17	34.51	27.57	.210
15	15.10	34.51	27.57	.231
20	15.03	34.51	27.57	.252
25	14.97	34.51	27.57	.273
30	14.91	34.51	27.57	.294
40	14.85	34.51	27.57	.315
50	14.79	34.51	27.57	.336
60	14.73	34.51	27.57	.357
75	14.67	34.51	27.57	.378
100	14.61	34.51	27.57	.399
150	14.55	34.51	27.57	.420
200	14.49	34.51	27.57	.441
300	14.43	34.51	27.57	.462
400	14.37	34.51	27.57	.483
500	14.31	34.51	27.57	.504
600	14.25	34.51	27.57	.525
700	14.19	34.51	27.57	.546
800	14.13	34.51	27.57	.567
900	14.07	34.51	27.57	.588
1000	14.01	34.51	27.57	.609
1100	13.95	34.51	27.57	.630
1200	13.89	34.51	27.57	.651
1300	13.83	34.51	27.57	.672
1400	13.77	34.51	27.57	.693
1500	13.71	34.51	27.57	.714
1522	13.65	34.51	27.57	.735



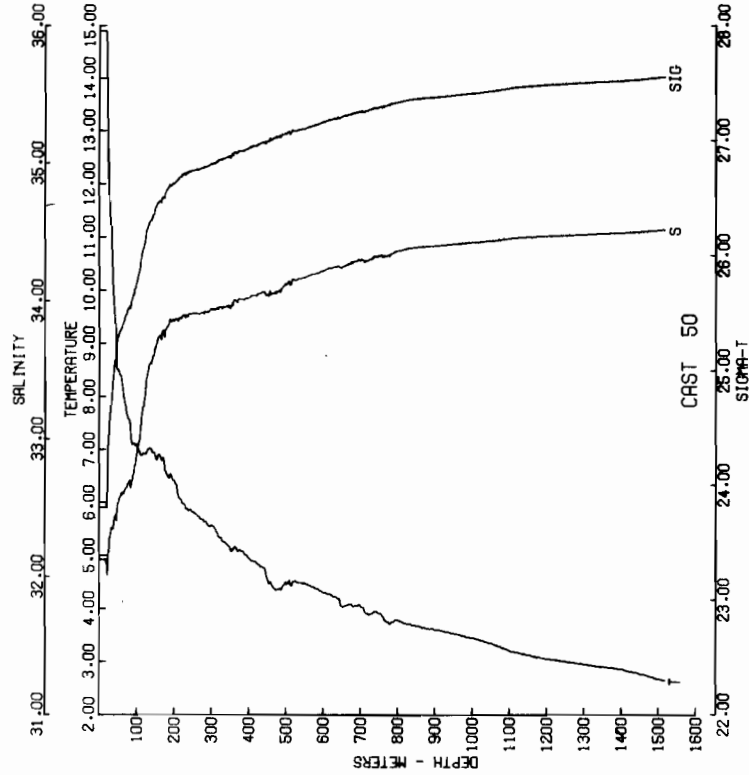
CAST 48-00-048 DATE 13 SEP 73 TIME 2119 GMT
 ELEM 13 METERS 1 TIME 2119 GMT
 SURFACE WIND DIR 137 T SPD 18.4 M VISIBILITY 6
 BAROMETR 1013.8 WIND DIR 14.1 MET 12.2 DEPTH 2684 M
 CLOUD 2 AMOUNT 3 DRY 14.1 DEPTH 2684 M

DEPTH (M)	TEMPERATURE (C)	SALINITY (PPT)	SIGMA-T (DN M)	DELTA-D (DN M)
0	15.37	34.51	27.57	0.000
1	15.35	34.51	27.57	.021
2	15.33	34.51	27.57	.042
3	15.31	34.51	27.57	.063
4	15.29	34.51	27.57	.084
5	15.27	34.51	27.57	.105
6	15.25	34.51	27.57	.126
7	15.23	34.51	27.57	.147
8	15.21	34.51	27.57	.168
9	15.19	34.51	27.57	.189
10	15.17	34.51	27.57	.210
15	15.10	34.51	27.57	.231
20	15.03	34.51	27.57	.252
25	14.97	34.51	27.57	.273
30	14.91	34.51	27.57	.294
40	14.85	34.51	27.57	.315
50	14.79	34.51	27.57	.336
60	14.73	34.51	27.57	.357
75	14.67	34.51	27.57	.378
100	14.61	34.51	27.57	.399
150	14.55	34.51	27.57	.420
200	14.49	34.51	27.57	.441
300	14.43	34.51	27.57	.462
400	14.37	34.51	27.57	.483
500	14.31	34.51	27.57	.504
600	14.25	34.51	27.57	.525
700	14.19	34.51	27.57	.546
800	14.13	34.51	27.57	.567
900	14.07	34.51	27.57	.588
1000	14.01	34.51	27.57	.609
1100	13.95	34.51	27.57	.630
1200	13.89	34.51	27.57	.651
1300	13.83	34.51	27.57	.672
1400	13.77	34.51	27.57	.693
1500	13.71	34.51	27.57	.714
1522	13.65	34.51	27.57	.735



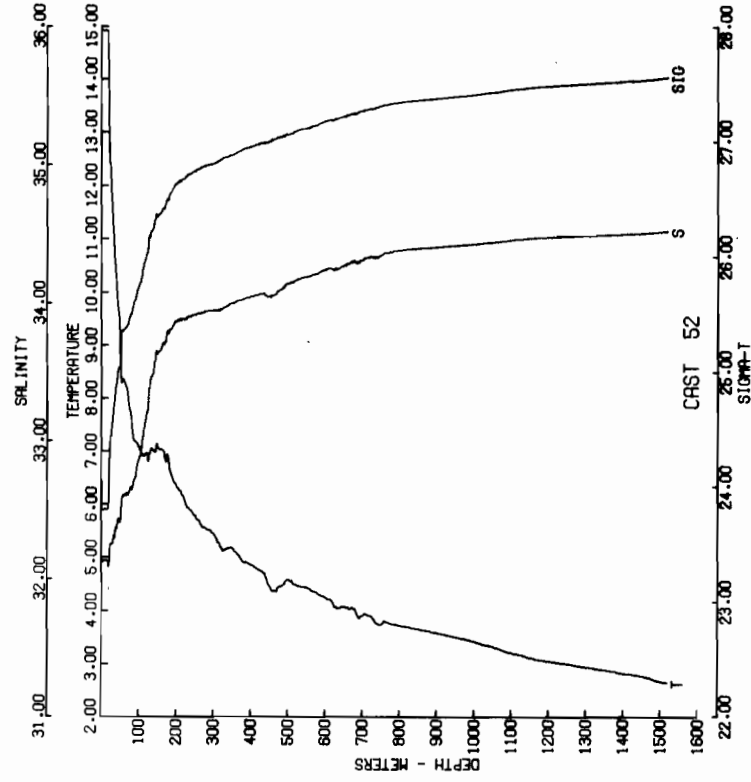
CAST NP-7-CC-049 DATE 13 SEP 72 TIME 0414 GMT
 SURFACE WIND 15 KTS DIR 340 T 12.5 T 12.5 T 12.5 T
 SURFACE WIND 15 KTS DIR 340 T 12.5 T 12.5 T 12.5 T
 CLOUD X AMOUNT 9 DRY 13.0 MET 12.1 DEPTH 2537 M

DEPTH (M)	TEMPERATURE (C)	SALINITY (PPT)	SIGMA-T (DYN MI)	DELTA-D
0	18.34	33.12	27.52	0.000
5	18.25	33.12	27.52	.021
10	18.05	33.12	27.52	.063
15	17.85	33.12	27.52	.083
20	17.65	33.12	27.52	.093
25	17.45	33.12	27.52	.103
30	17.25	33.12	27.52	.113
35	17.05	33.12	27.52	.123
40	16.85	33.12	27.52	.133
45	16.65	33.12	27.52	.143
50	16.45	33.12	27.52	.153
75	16.25	33.12	27.52	.163
100	16.05	33.12	27.52	.173
150	15.85	33.12	27.52	.183
200	15.65	33.12	27.52	.193
300	15.45	33.12	27.52	.203
400	15.25	33.12	27.52	.213
500	15.05	33.12	27.52	.223
750	14.85	33.12	27.52	.233
1000	14.65	33.12	27.52	.243
1500	14.45	33.12	27.52	.253
1600	14.25	33.12	27.52	.263



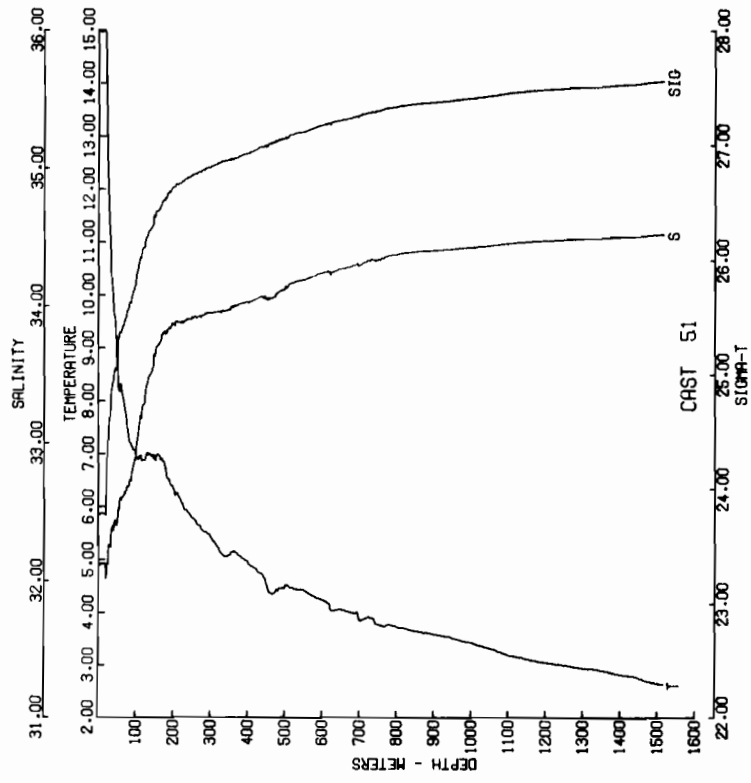
CAST NP-7-CC-050 DATE 13 SEP 72 TIME 0616 GMT
 SURFACE WIND 15 KTS DIR 340 T 12.5 T 12.5 T 12.5 T
 SURFACE WIND 15 KTS DIR 340 T 12.5 T 12.5 T 12.5 T
 CLOUD X AMOUNT 9 DRY 13.7 MET 12.0 DEPTH 2536 M

DEPTH (M)	TEMPERATURE (C)	SALINITY (PPT)	SIGMA-T (DYN MI)	DELTA-D
0	18.90	33.13	27.52	0.000
5	18.80	33.13	27.52	.021
10	18.60	33.13	27.52	.062
15	18.40	33.13	27.52	.082
20	18.20	33.13	27.52	.092
25	18.00	33.13	27.52	.102
30	17.80	33.13	27.52	.112
35	17.60	33.13	27.52	.122
40	17.40	33.13	27.52	.132
45	17.20	33.13	27.52	.142
50	17.00	33.13	27.52	.152
75	16.80	33.13	27.52	.162
100	16.60	33.13	27.52	.172
150	16.40	33.13	27.52	.182
200	16.20	33.13	27.52	.192
300	16.00	33.13	27.52	.202
400	15.80	33.13	27.52	.212
500	15.60	33.13	27.52	.222
750	15.40	33.13	27.52	.232
1000	15.20	33.13	27.52	.242
1500	15.00	33.13	27.52	.252
1600	14.80	33.13	27.52	.262



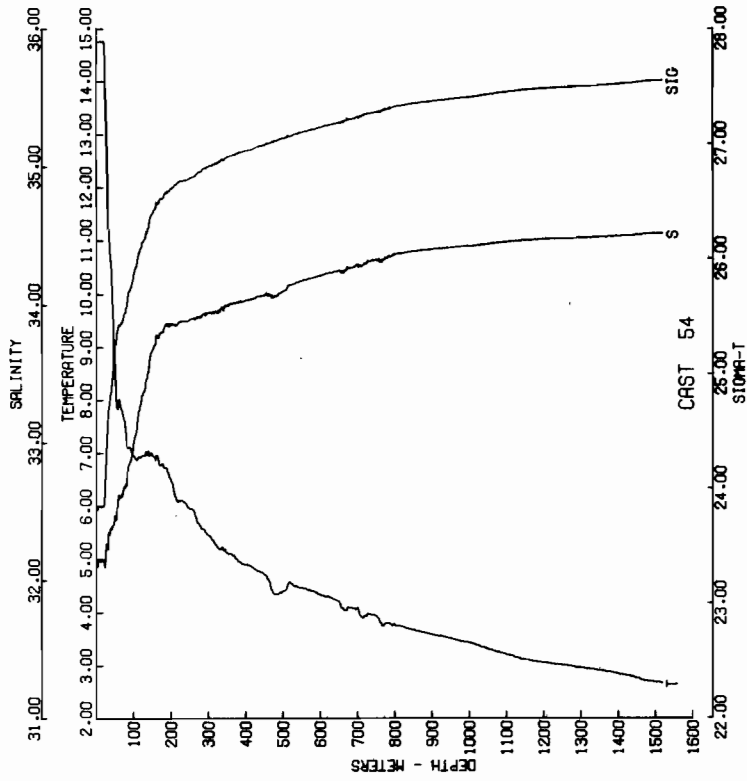
CAST RP-7-00-852 DATE 13 SEP 73 TIME 0816 GMT
 EQUINOX 12.9 METERS SURFACE WIND 4.0 METERS PER SECOND
 WAVE PERIOD 1.6 METERS SURFACE WIND 4.0 METERS PER SECOND
 WAVE PERIOD 1.6 METERS SURFACE WIND 4.0 METERS PER SECOND
 CLOUD 8 AMOUNT 2 DRY 13.6 WET 12.2 DEPTH 2522 M

DEPTH (M)	TEMPERATURE (C)	SALINITY (PPT)	SIGMA-T	DELTA-D (DYN M)
0	14.93	32.12	22.79	0.000
10	14.93	32.12	22.79	.021
15	14.93	32.12	22.79	.042
20	14.93	32.12	22.79	.062
25	14.93	32.12	22.79	.082
30	14.93	32.12	22.79	.102
35	14.93	32.12	22.79	.122
40	14.93	32.12	22.79	.142
45	14.93	32.12	22.79	.162
50	14.93	32.12	22.79	.182
55	14.93	32.12	22.79	.202
60	14.93	32.12	22.79	.222
65	14.93	32.12	22.79	.242
70	14.93	32.12	22.79	.262
75	14.93	32.12	22.79	.282
80	14.93	32.12	22.79	.302
85	14.93	32.12	22.79	.322
90	14.93	32.12	22.79	.342
95	14.93	32.12	22.79	.362
100	14.93	32.12	22.79	.382
105	14.93	32.12	22.79	.402
110	14.93	32.12	22.79	.422
115	14.93	32.12	22.79	.442
120	14.93	32.12	22.79	.462
125	14.93	32.12	22.79	.482
130	14.93	32.12	22.79	.502
135	14.93	32.12	22.79	.522
140	14.93	32.12	22.79	.542
145	14.93	32.12	22.79	.562
150	14.93	32.12	22.79	.582
155	14.93	32.12	22.79	.602
160	14.93	32.12	22.79	.622

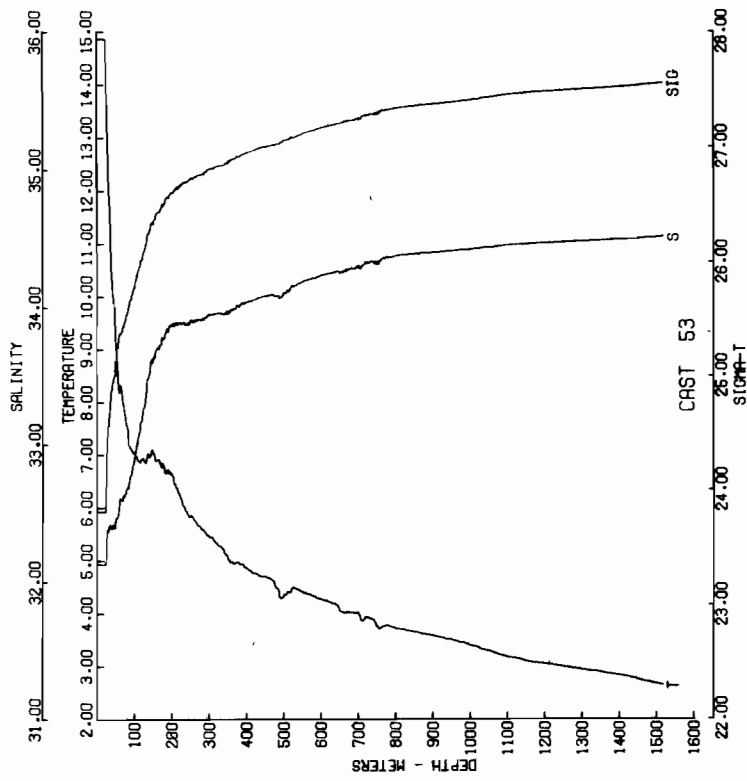


CAST RP-7-00-851 DATE 13 SEP 73 TIME 0816 GMT
 EQUINOX 12.9 METERS SURFACE WIND 4.0 METERS PER SECOND
 WAVE PERIOD 1.6 METERS SURFACE WIND 4.0 METERS PER SECOND
 WAVE PERIOD 1.6 METERS SURFACE WIND 4.0 METERS PER SECOND
 CLOUD 8 AMOUNT 9 DRY 13.7 WET 12.4 DEPTH 2528 M

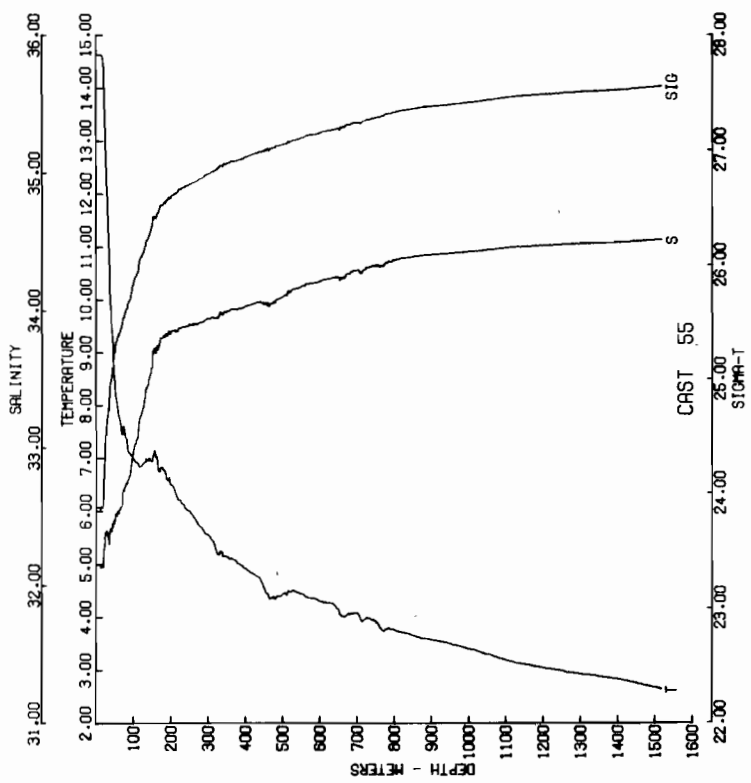
DEPTH (M)	TEMPERATURE (C)	SALINITY (PPT)	SIGMA-T	DELTA-D (DYN M)
0	14.97	32.00	22.77	0.000
10	14.97	32.00	22.77	.021
15	14.97	32.00	22.77	.042
20	14.97	32.00	22.77	.062
25	14.97	32.00	22.77	.082
30	14.97	32.00	22.77	.102
35	14.97	32.00	22.77	.122
40	14.97	32.00	22.77	.142
45	14.97	32.00	22.77	.162
50	14.97	32.00	22.77	.182
55	14.97	32.00	22.77	.202
60	14.97	32.00	22.77	.222
65	14.97	32.00	22.77	.242
70	14.97	32.00	22.77	.262
75	14.97	32.00	22.77	.282
80	14.97	32.00	22.77	.302
85	14.97	32.00	22.77	.322
90	14.97	32.00	22.77	.342
95	14.97	32.00	22.77	.362
100	14.97	32.00	22.77	.382
105	14.97	32.00	22.77	.402
110	14.97	32.00	22.77	.422
115	14.97	32.00	22.77	.442
120	14.97	32.00	22.77	.462
125	14.97	32.00	22.77	.482
130	14.97	32.00	22.77	.502
135	14.97	32.00	22.77	.522
140	14.97	32.00	22.77	.542
145	14.97	32.00	22.77	.562
150	14.97	32.00	22.77	.582
155	14.97	32.00	22.77	.602
160	14.97	32.00	22.77	.622



CAST RP-7-0C-053 DATE 13 SEP 73 TIME 1215 GMT
 LAT 48 20 N LONG 126 44 W DEPTH 1511 M
 SURFACE WIND DIR 330 T SPD 0.4 KT VISIBILITY 7
 BAROMETER 1015 WIND DIR 330 T SPD 0.4 KT VISIBILITY 7
 CLOUD 6 AMOUNT 5 DRY 13.7 WET 12.1 DEPTH 3533 M

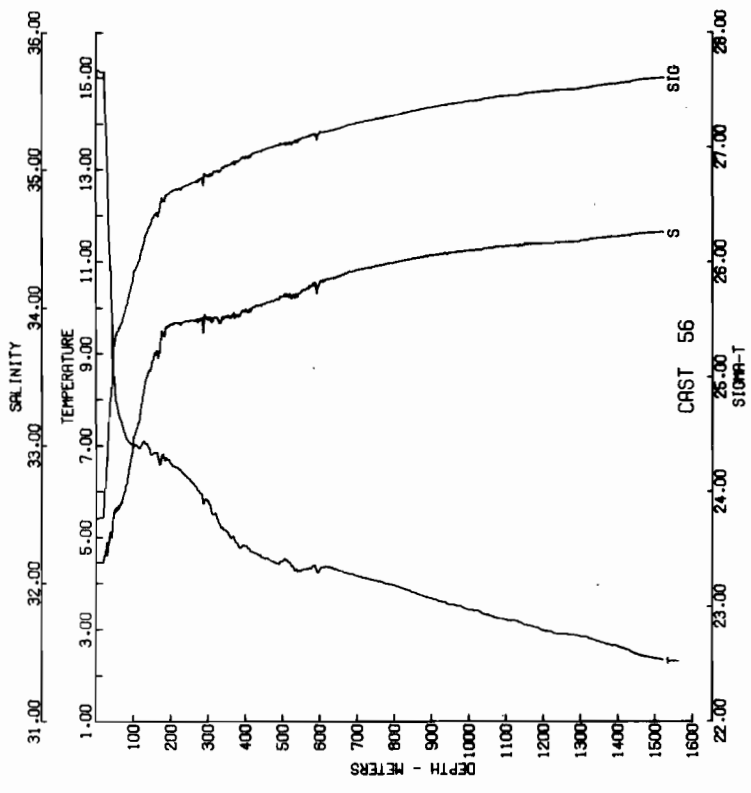


CAST RP-7-0C-053 DATE 13 SEP 73 TIME 1215 GMT
 LAT 48 20 N LONG 126 44 W DEPTH 1511 M
 SURFACE WIND DIR 330 T SPD 0.4 KT VISIBILITY 6
 BAROMETER 1015 WIND DIR 330 T SPD 0.4 KT VISIBILITY 6
 CLOUD 6 AMOUNT 5 DRY 13.6 WET 12.3 DEPTH 2531 M



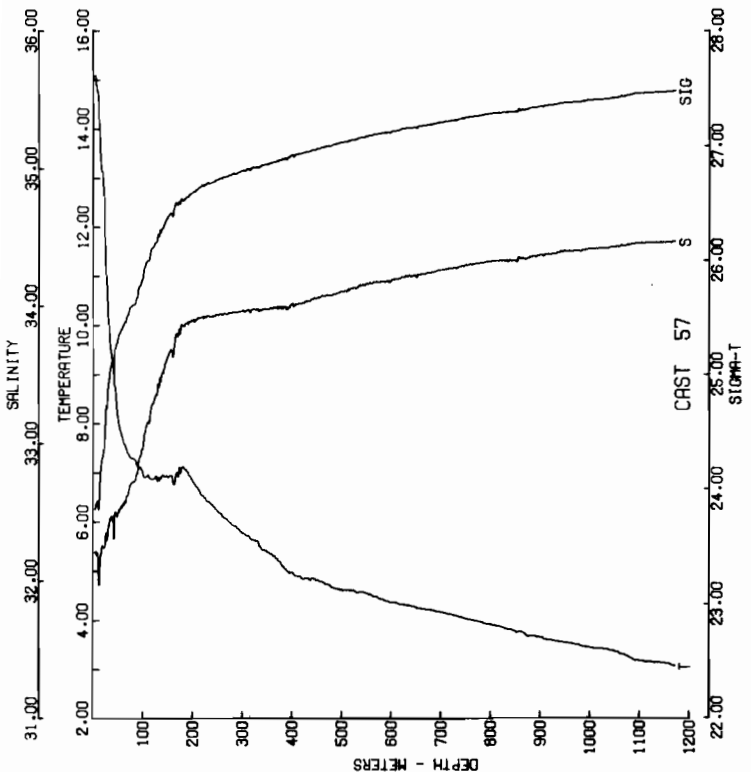
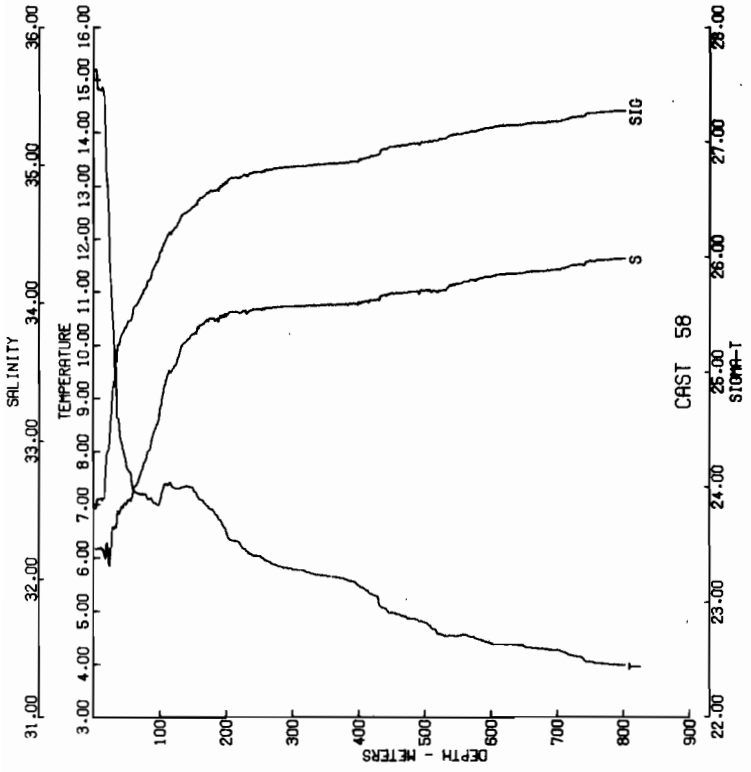
CAST RP-7-0C-055 DATE 13 SEP 73 TIME 1616 GMT
 LAT 48 13.6N LONG 126 47.5W WEATHER SEA STATE 2
 WIND DIR 150 WIND SPEED 15.9 KTS WIND GUST 17.7 KTS
 CLOUD 6 AMOUNT 0 DAY 15.9 NET 12.1 DEPTH 2536 M

DEPTH (M)	TEMPERATURE (C)	SALINITY (PPT)	SIGMA-T	DELTA-S
0	14.63	32.15	22.22	0.00
10	14.63	32.15	22.22	0.00
15	14.63	32.15	22.22	0.00
20	14.63	32.15	22.22	0.00
25	14.63	32.15	22.22	0.00
30	14.63	32.15	22.22	0.00
35	14.63	32.15	22.22	0.00
40	14.63	32.15	22.22	0.00
45	14.63	32.15	22.22	0.00
50	14.63	32.15	22.22	0.00
55	14.63	32.15	22.22	0.00
60	14.63	32.15	22.22	0.00
65	14.63	32.15	22.22	0.00
70	14.63	32.15	22.22	0.00
75	14.63	32.15	22.22	0.00
80	14.63	32.15	22.22	0.00
85	14.63	32.15	22.22	0.00
90	14.63	32.15	22.22	0.00
95	14.63	32.15	22.22	0.00
100	14.63	32.15	22.22	0.00
105	14.63	32.15	22.22	0.00
110	14.63	32.15	22.22	0.00
115	14.63	32.15	22.22	0.00
120	14.63	32.15	22.22	0.00
125	14.63	32.15	22.22	0.00
130	14.63	32.15	22.22	0.00
135	14.63	32.15	22.22	0.00
140	14.63	32.15	22.22	0.00
145	14.63	32.15	22.22	0.00
150	14.63	32.15	22.22	0.00
155	14.63	32.15	22.22	0.00
160	14.63	32.15	22.22	0.00



CAST RP-7-0C-056 DATE 13 SEP 73 TIME 1821 GMT
 LAT 48 13.6N LONG 126 47.5W WEATHER SEA STATE 2
 WIND DIR 150 WIND SPEED 15.9 KTS WIND GUST 17.7 KTS
 CLOUD 6 AMOUNT 0 DAY 15.9 NET 12.1 DEPTH 1616 M

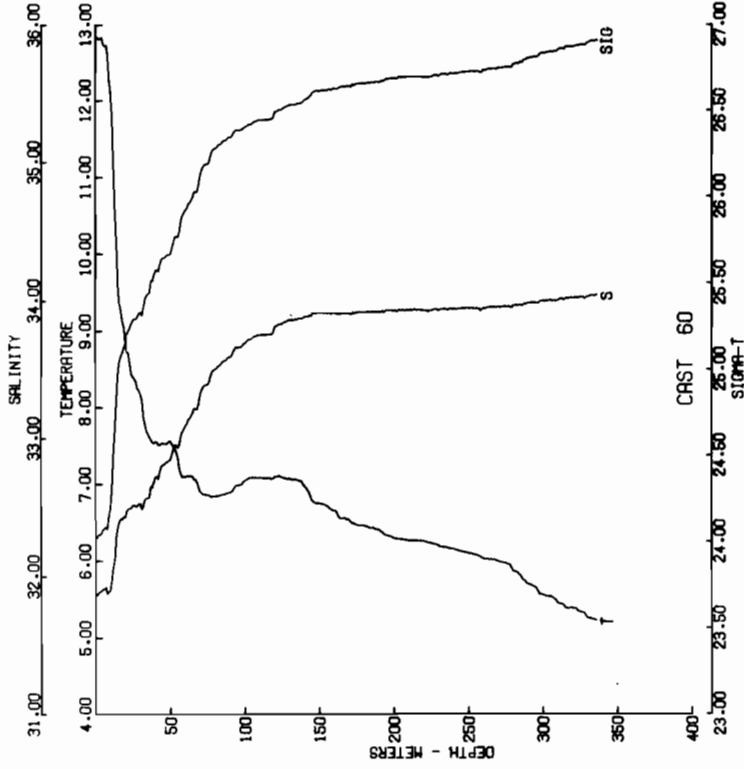
DEPTH (M)	TEMPERATURE (C)	SALINITY (PPT)	SIGMA-T	DELTA-S
0	15.21	32.15	22.75	0.00
10	15.21	32.15	22.75	0.00
15	15.21	32.15	22.75	0.00
20	15.21	32.15	22.75	0.00
25	15.21	32.15	22.75	0.00
30	15.21	32.15	22.75	0.00
35	15.21	32.15	22.75	0.00
40	15.21	32.15	22.75	0.00
45	15.21	32.15	22.75	0.00
50	15.21	32.15	22.75	0.00
55	15.21	32.15	22.75	0.00
60	15.21	32.15	22.75	0.00
65	15.21	32.15	22.75	0.00
70	15.21	32.15	22.75	0.00
75	15.21	32.15	22.75	0.00
80	15.21	32.15	22.75	0.00
85	15.21	32.15	22.75	0.00
90	15.21	32.15	22.75	0.00
95	15.21	32.15	22.75	0.00
100	15.21	32.15	22.75	0.00
105	15.21	32.15	22.75	0.00
110	15.21	32.15	22.75	0.00
115	15.21	32.15	22.75	0.00
120	15.21	32.15	22.75	0.00
125	15.21	32.15	22.75	0.00
130	15.21	32.15	22.75	0.00
135	15.21	32.15	22.75	0.00
140	15.21	32.15	22.75	0.00
145	15.21	32.15	22.75	0.00
150	15.21	32.15	22.75	0.00
155	15.21	32.15	22.75	0.00
160	15.21	32.15	22.75	0.00



CAST 57-0C-057 DATE 13 SEP 73 TIME 2003 GMT
 LAT 48 19.7N LONG 126 21.0W WEATHER 1 SEA STATE 2
 BAROMETER 15 WIND DIR 350 T SPD 03 KT VISIBILITY 7
 CLOUD 0 AMOUNT 2 DRY 15.8 WET 13.8 DEPTH 1179 M

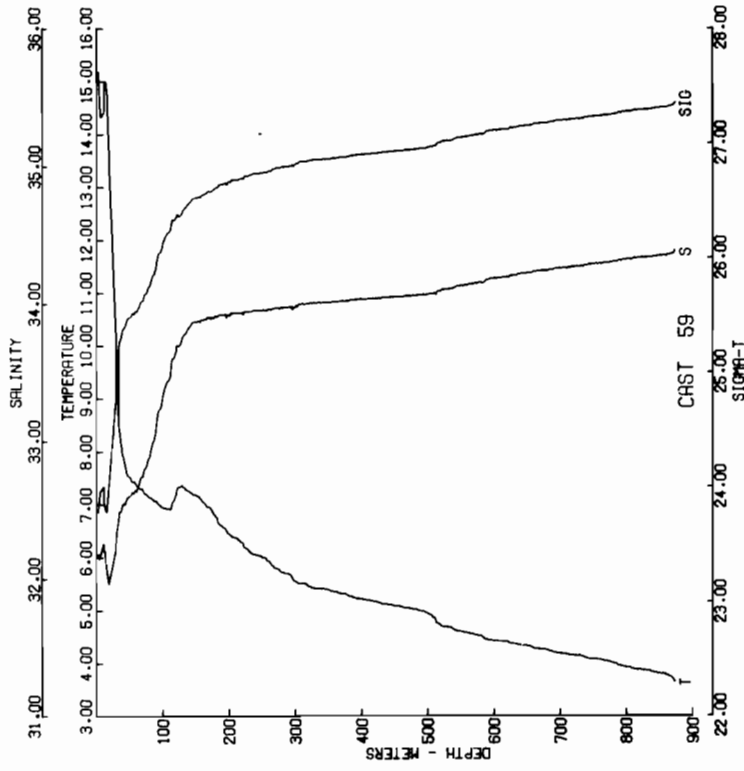
CAST 58-0C-058 DATE 13 SEP 73 TIME 2130 GMT
 LAT 48 20.2N LONG 126 11.3W WEATHER 1 SEA STATE 2
 BAROMETER 15 WIND DIR 350 T SPD 05 KT VISIBILITY 7
 CLOUD 0 AMOUNT 2 DRY 16.5 WET 13.2 DEPTH 805 M

DEPTH (M)	TEMPERATURE (C)	SALINITY (PPT)	DELTA-D (DYN M)
0	15.70	32.76	0.000
5	15.09	32.80	.021
10	14.70	32.82	.041
20	14.20	32.85	.079
30	13.70	32.88	.136
40	13.20	32.90	.209
50	12.70	32.92	.294
60	12.20	32.93	.387
70	11.70	32.94	.494
80	11.20	32.94	.611
90	10.70	32.94	.732
100	10.20	32.94	.864
110	9.70	32.94	.999
120	9.20	32.94	1.131
130	8.70	32.94	1.261
140	8.20	32.94	1.388
150	7.70	32.94	1.511
160	7.20	32.94	1.631
170	6.70	32.94	1.748
180	6.20	32.94	1.861
190	5.70	32.94	1.971
200	5.20	32.94	2.078
210	4.70	32.94	2.181
220	4.20	32.94	2.281
230	3.70	32.94	2.378
240	3.20	32.94	2.471
250	2.70	32.94	2.561
260	2.20	32.94	2.648
270	1.70	32.94	2.731
280	1.20	32.94	2.811
290	0.70	32.94	2.888
300	0.20	32.94	2.961
310	-0.30	32.94	3.031
320	-0.80	32.94	3.098
330	-1.30	32.94	3.161
340	-1.80	32.94	3.221
350	-2.30	32.94	3.278
360	-2.80	32.94	3.331
370	-3.30	32.94	3.381
380	-3.80	32.94	3.428
390	-4.30	32.94	3.471
400	-4.80	32.94	3.511
410	-5.30	32.94	3.548
420	-5.80	32.94	3.581
430	-6.30	32.94	3.611
440	-6.80	32.94	3.638
450	-7.30	32.94	3.661
460	-7.80	32.94	3.681
470	-8.30	32.94	3.698
480	-8.80	32.94	3.711
490	-9.30	32.94	3.721
500	-9.80	32.94	3.728
510	-10.30	32.94	3.731
520	-10.80	32.94	3.731
530	-11.30	32.94	3.728
540	-11.80	32.94	3.721
550	-12.30	32.94	3.711
560	-12.80	32.94	3.698
570	-13.30	32.94	3.681
580	-13.80	32.94	3.661
590	-14.30	32.94	3.638
600	-14.80	32.94	3.611
610	-15.30</		



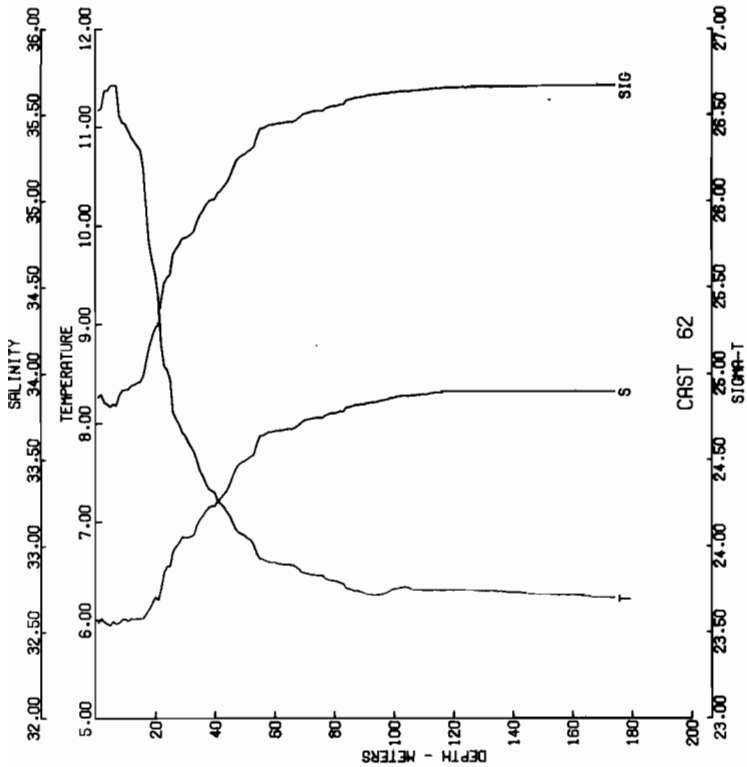
CAST 09-7-00-68 DATE 14 SEP 73 TIME 18 GMT
 LAT 48 19 09 N LONG 125 52 54 W WEATHER 1 SEA STATE 2
 BAROMETER 15 WIND DIR 364 T SPD 8 KT VISIBILITY 7
 CLOUD 0 AMOUNT 2 DRY 16.1 MET 14.8 DEPTH 378 M

DEPTH (M)	TEMPERATURE (C)	SALINITY (PPT)	DELTA-D (DYN M)
0	12.85	31.86	24.82
1	12.75	31.90	24.87
5	12.00	31.90	24.90
10	11.75	31.90	24.92
15	11.50	31.90	24.93
20	11.25	31.90	24.94
25	11.00	31.90	24.95
30	10.75	31.90	24.96
35	10.50	31.90	24.97
40	10.25	31.90	24.98
45	10.00	31.90	24.99
50	9.75	31.90	25.00
100	8.75	31.90	25.00
150	8.00	31.90	25.00
200	7.50	31.90	25.00
250	7.00	31.90	25.00
300	6.75	31.90	25.00
350	6.50	31.90	25.00
400	6.25	31.90	25.00
450	6.00	31.90	25.00
500	5.75	31.90	25.00
550	5.50	31.90	25.00
600	5.25	31.90	25.00
650	5.00	31.90	25.00
700	4.75	31.90	25.00
750	4.50	31.90	25.00
800	4.25	31.90	25.00
850	4.00	31.90	25.00
900	3.75	31.90	25.00



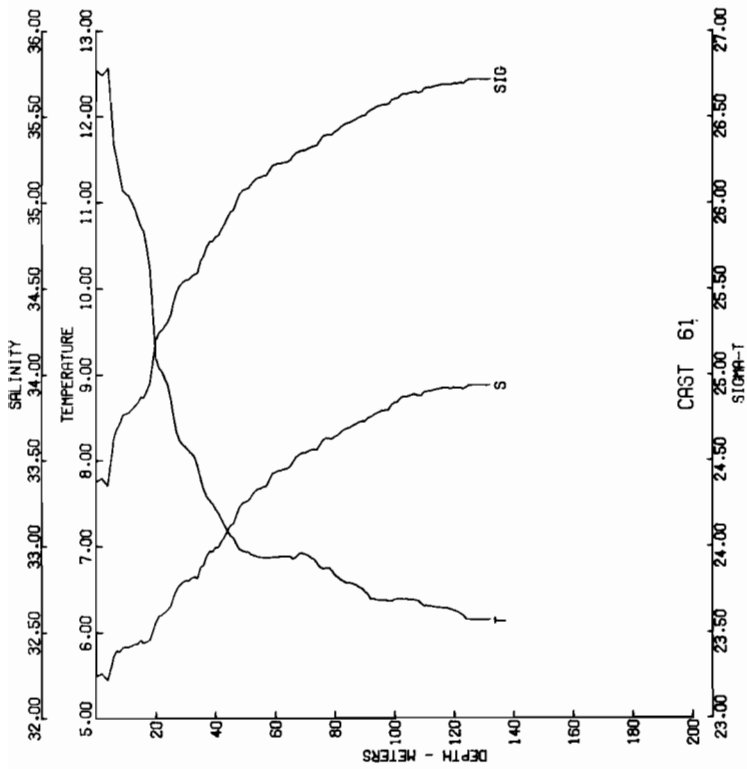
CAST 09-7-00-059 DATE 13 SEP 73 TIME 2254 GMT
 LAT 48 19 09 N LONG 126 00 44 W WEATHER 1 SEA STATE 2
 BAROMETER 15 WIND DIR 321 T SPD 0.4 KT VISIBILITY 7
 CLOUD 0 AMOUNT 2 DRY 16.0 MET 13.4 DEPTH 0876 M

DEPTH (M)	TEMPERATURE (C)	SALINITY (PPT)	DELTA-D (DYN M)
0	15.70	32.16	23.54
1	15.52	32.14	23.54
5	14.40	32.12	23.54
10	13.40	32.12	23.54
15	12.40	32.12	23.54
20	11.40	32.12	23.54
25	10.40	32.12	23.54
30	9.40	32.12	23.54
35	8.40	32.12	23.54
40	7.40	32.12	23.54
45	6.40	32.12	23.54
50	5.40	32.12	23.54
100	4.40	32.12	23.54
150	3.40	32.12	23.54
200	2.40	32.12	23.54
250	1.40	32.12	23.54
300	0.40	32.12	23.54
350	0.40	32.12	23.54
400	0.40	32.12	23.54
450	0.40	32.12	23.54
500	0.40	32.12	23.54
550	0.40	32.12	23.54
600	0.40	32.12	23.54
650	0.40	32.12	23.54
700	0.40	32.12	23.54
750	0.40	32.12	23.54
800	0.40	32.12	23.54
850	0.40	32.12	23.54
900	0.40	32.12	23.54



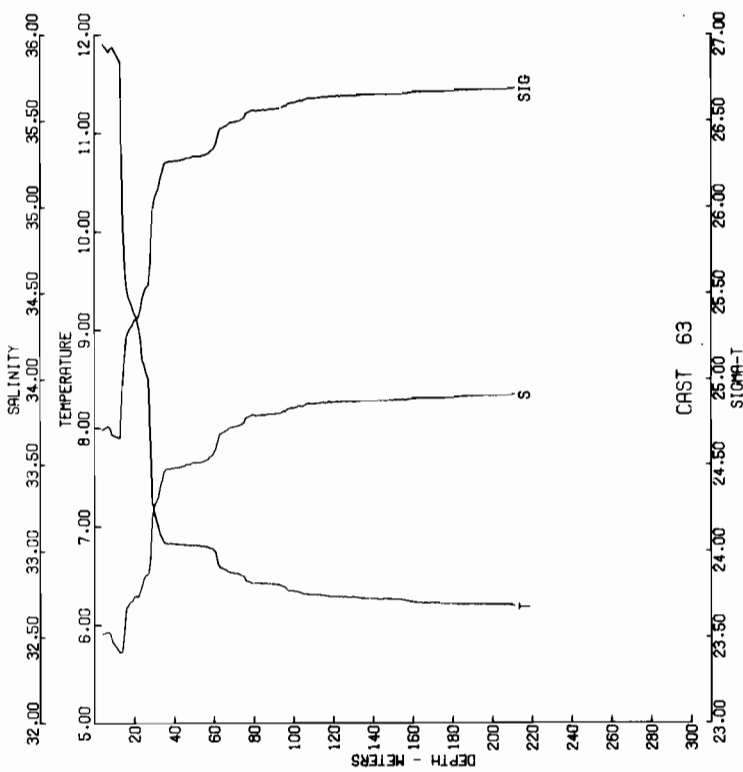
CAST RP-7-GC-062 DATE 14 SEP 72 TIME 0136 GMT
 SURFACE WIND DIR 135 T SPD 18 KT VISIBILITY 7
 BAROMETER 30.5 L WIND DIR 14.9 T SPD 13.5 DEPTH 0214 M
 CLOUD 6 AMOUNT 1 DRY 13.3 MET 13.2 DEPTH 0182 M

DEPTH (M)	TEMPERATURE (C)	SALINITY (PPT)	DELTA-SIGMA-T (DYN M)
0	11.9	35.2	0.000
5	11.4	35.2	0.000
10	10.3	35.2	0.000
15	9.2	35.2	0.000
20	8.2	35.2	0.000
25	7.2	35.2	0.000
30	6.2	35.2	0.000
35	5.2	35.2	0.000
40	4.2	35.2	0.000
45	3.2	35.2	0.000
50	2.2	35.2	0.000
55	1.2	35.2	0.000
60	0.2	35.2	0.000
65	0.2	35.2	0.000
70	0.2	35.2	0.000
75	0.2	35.2	0.000
80	0.2	35.2	0.000
85	0.2	35.2	0.000
90	0.2	35.2	0.000
95	0.2	35.2	0.000
100	0.2	35.2	0.000
105	0.2	35.2	0.000
110	0.2	35.2	0.000
115	0.2	35.2	0.000
120	0.2	35.2	0.000
125	0.2	35.2	0.000
130	0.2	35.2	0.000
135	0.2	35.2	0.000
140	0.2	35.2	0.000
145	0.2	35.2	0.000
150	0.2	35.2	0.000
155	0.2	35.2	0.000
160	0.2	35.2	0.000
165	0.2	35.2	0.000
170	0.2	35.2	0.000
175	0.2	35.2	0.000
180	0.2	35.2	0.000
185	0.2	35.2	0.000
190	0.2	35.2	0.000
195	0.2	35.2	0.000
200	0.2	35.2	0.000

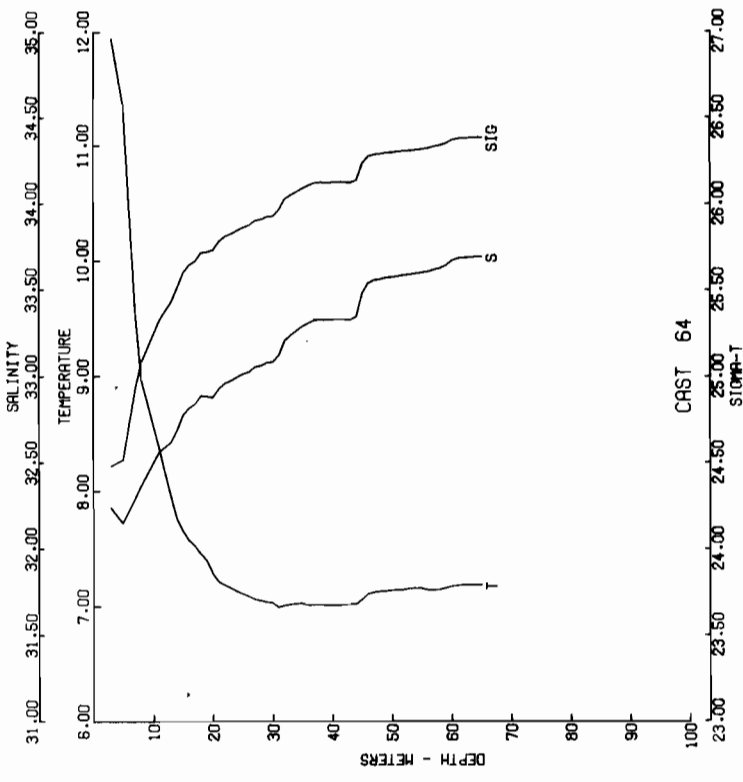


CAST RP-7-GC-062 DATE 14 SEP 72 TIME 0136 GMT
 SURFACE WIND DIR 135 T SPD 18 KT VISIBILITY 7
 BAROMETER 30.5 L WIND DIR 14.9 T SPD 13.5 DEPTH 0214 M
 CLOUD 6 AMOUNT 1 DRY 13.3 MET 13.2 DEPTH 0182 M

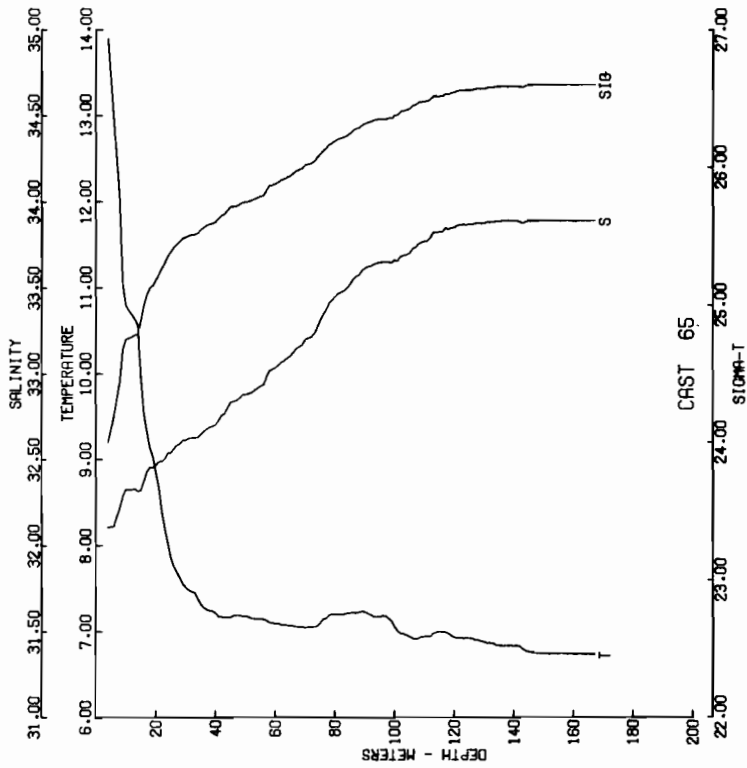
DEPTH (M)	TEMPERATURE (C)	SALINITY (PPT)	DELTA-SIGMA-T (DYN M)
0	11.9	35.2	0.000
5	11.4	35.2	0.000
10	10.3	35.2	0.000
15	9.2	35.2	0.000
20	8.2	35.2	0.000
25	7.2	35.2	0.000
30	6.2	35.2	0.000
35	5.2	35.2	0.000
40	4.2	35.2	0.000
45	3.2	35.2	0.000
50	2.2	35.2	0.000
55	1.2	35.2	0.000
60	0.2	35.2	0.000
65	0.2	35.2	0.000
70	0.2	35.2	0.000
75	0.2	35.2	0.000
80	0.2	35.2	0.000
85	0.2	35.2	0.000
90	0.2	35.2	0.000
95	0.2	35.2	0.000
100	0.2	35.2	0.000
105	0.2	35.2	0.000
110	0.2	35.2	0.000
115	0.2	35.2	0.000
120	0.2	35.2	0.000
125	0.2	35.2	0.000
130	0.2	35.2	0.000
135	0.2	35.2	0.000
140	0.2	35.2	0.000
145	0.2	35.2	0.000
150	0.2	35.2	0.000
155	0.2	35.2	0.000
160	0.2	35.2	0.000
165	0.2	35.2	0.000
170	0.2	35.2	0.000
175	0.2	35.2	0.000
180	0.2	35.2	0.000
185	0.2	35.2	0.000
190	0.2	35.2	0.000
195	0.2	35.2	0.000
200	0.2	35.2	0.000



CAST RP-7-CC-063 DATE 14 SEP 73 TIME 0335 GMT
 LAT 48 09.3N LONG 123 05.1W SURFACE WIND 12 KTS
 CLOUD X AMOUNT 9 DRY 12.5 MET 12.5 MET 12.5 MET 12.5 MET
 DEPTH TEMPERATURE SALINITY SIGMA-T DELTA-D
 (M) (C) (PPT) (DTN M)

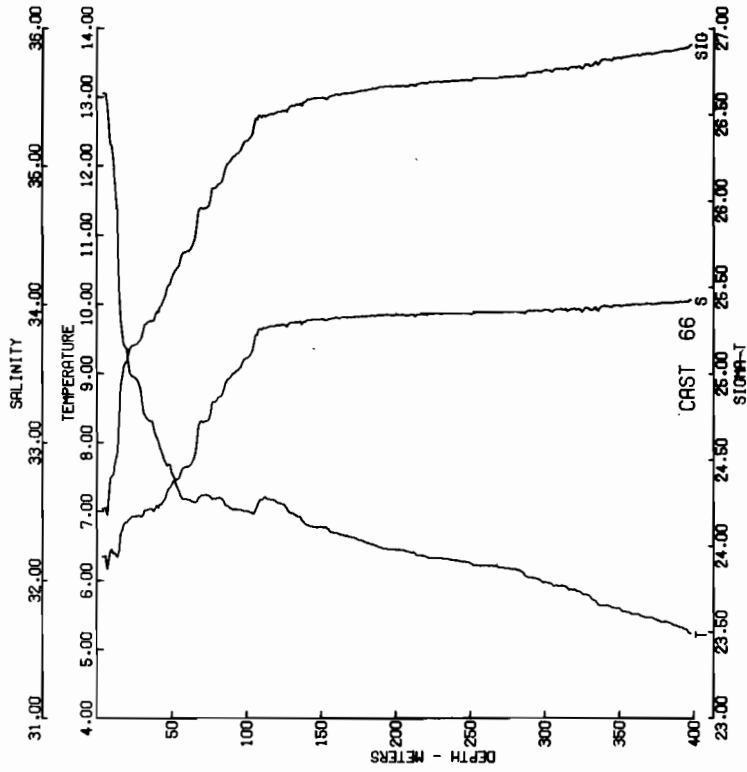


CAST RP-7-CC-064 DATE 14 SEP 73 TIME 0526 GMT
 LAT 48 09.3N LONG 123 05.1W SURFACE WIND 12 KTS
 CLOUD X AMOUNT 9 DRY 12.5 MET 12.5 MET 12.5 MET 12.5 MET
 DEPTH TEMPERATURE SALINITY SIGMA-T DELTA-D
 (M) (C) (PPT) (DTN M)



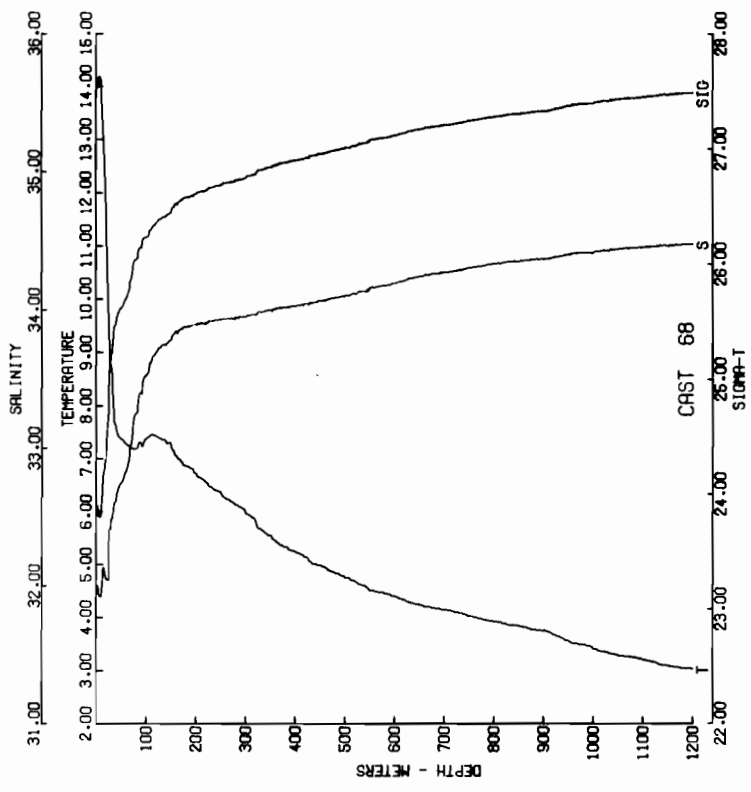
CAST RP-7-CC-065 DATE 14 SEP 73 TIME 0715 GMT
 SURFACE WIND 10.4 MTS 150 DEG T 10.4 MTS 150 DEG
 BAROMETER 977.0 HPa 10.4 MTS 150 DEG T 10.4 MTS 150 DEG
 CLOUD X AMOUNT 9 DRY 13.7 MET 12.6 MET 11.7 M

DEPTH (M)	TEMPERATURE (C)	SALINITY (PPT)	DELTA-S (10 ⁻³ M)
0	13.73	32.09	0.000
5	13.73	32.09	0.000
10	10.80	32.475	0.000
15	9.97	32.533	0.000
20	9.05	32.577	0.000
30	7.91	32.665	0.000
40	7.32	32.709	0.000
50	7.16	32.739	0.000
75	7.06	32.809	0.000
100	6.73	32.869	0.000
150	6.73	32.869	0.000
200	6.73	32.869	0.000



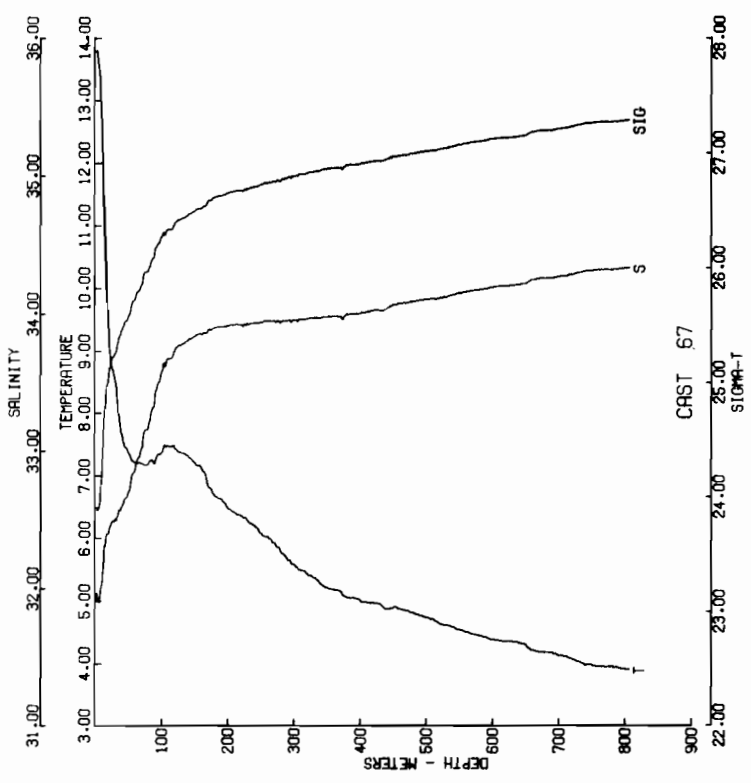
CAST RP-7-CC-066 DATE 14 SEP 73 TIME 0820 GMT
 SURFACE WIND 10.4 MTS 150 DEG T 10.4 MTS 150 DEG
 BAROMETER 977.0 HPa 10.4 MTS 150 DEG T 10.4 MTS 150 DEG
 CLOUD X AMOUNT 9 DRY 13.6 MET 12.8 MET 12.0 M

DEPTH (M)	TEMPERATURE (C)	SALINITY (PPT)	DELTA-S (10 ⁻³ M)
0	13.29	32.29	0.000
5	13.29	32.29	0.000
10	10.26	32.222	0.000
15	9.32	32.222	0.000
20	8.63	32.222	0.000
30	8.07	32.222	0.000
40	7.57	32.222	0.000
50	7.23	32.222	0.000
75	7.01	32.222	0.000
100	6.75	32.222	0.000
150	6.75	32.222	0.000
200	6.75	32.222	0.000
300	6.75	32.222	0.000
400	6.75	32.222	0.000



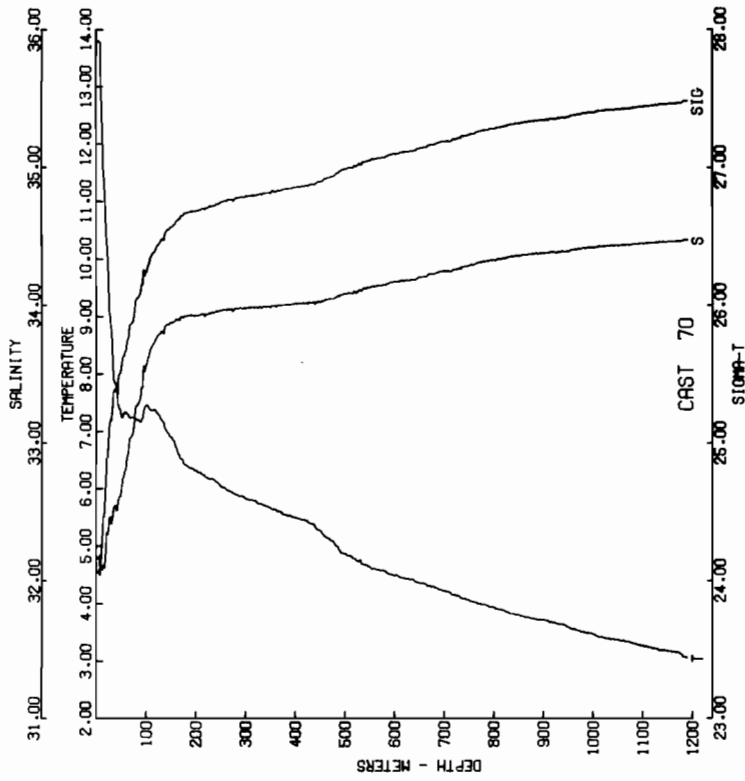
CAST RP-7-CC-067 DATE 14 SEP 73 TIME 0932 GMT
 LAT 47 48.9N LONG 127 23.1W SEAT 15.3
 BAROMET * AMOUNT 9 DRY 14.3 WET 15.0 DEPTH 0.809 M
 CLOUD % AMOUNT 9 DRY 14.3 WET 15.0 DEPTH 0.809 M

DEPTH (M)	TEMPERATURE (C)	SALINITY (PPT)	SIGMA-T (DYN M)	DELTA-S
0	14.77	32.89	23.89	0.000
2	13.72	32.99	23.91	.021
5	13.00	33.01	23.91	.020
10	11.80	33.02	23.91	.020
20	9.94	33.03	23.92	.023
30	8.57	33.04	23.92	.027
40	8.07	33.05	23.93	.031
50	7.69	33.05	23.93	.034
75	7.18	33.05	23.94	.037
100	6.72	33.05	23.94	.039
150	5.52	33.04	23.96	.045
200	4.77	33.03	23.97	.049
300	3.98	33.01	23.99	.054
400	3.30	33.00	24.00	.057
500		33.00	24.01	.059
600		33.00	24.02	.061
700		33.00	24.03	.063
800		33.00	24.04	.065
900		33.00	24.05	.067

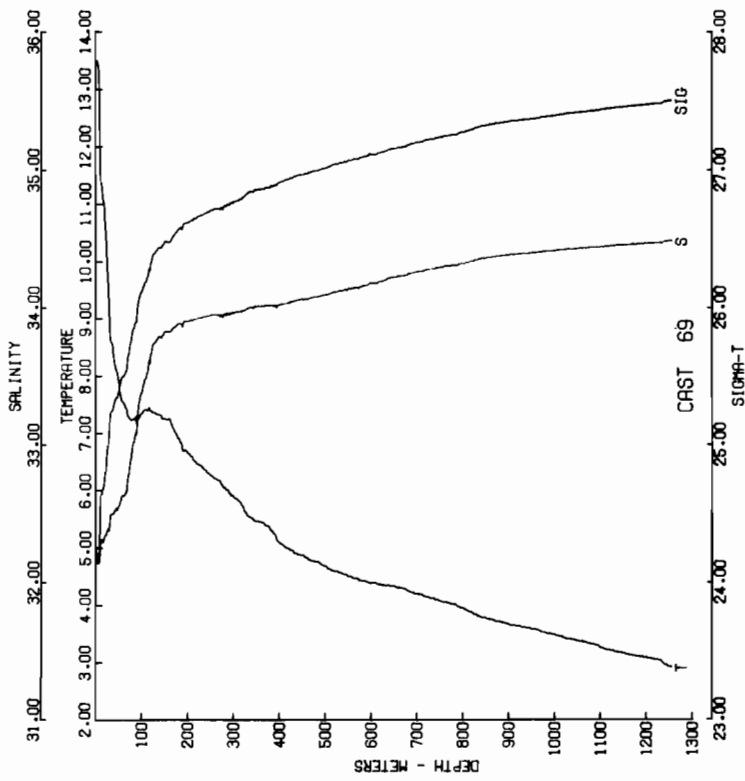


CAST RP-7-CC-068 DATE 14 SEP 73 TIME 1054 GMT
 LAT 47 48.9N LONG 127 23.1W SEAT 15.3
 BAROMET * AMOUNT 9 DRY 14.3 WET 15.0 DEPTH 1.202 M
 CLOUD % AMOUNT 9 DRY 14.3 WET 15.0 DEPTH 1.202 M

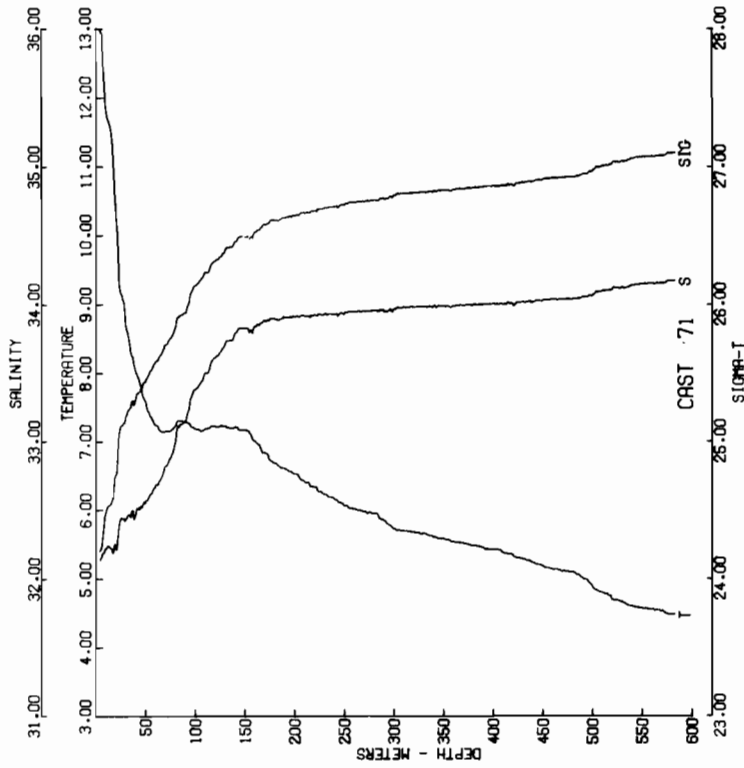
DEPTH (M)	TEMPERATURE (C)	SALINITY (PPT)	SIGMA-T (DYN M)	DELTA-S
0	13.90	32.80	23.90	0.000
2	13.90	32.80	23.90	.021
5	13.10	32.81	23.90	.021
10	11.90	32.82	23.91	.021
20	10.60	32.83	23.91	.025
30	9.20	32.84	23.92	.029
40	8.70	32.85	23.92	.033
50	8.20	32.85	23.93	.037
75	7.50	32.86	23.93	.041
100	7.00	32.86	23.94	.045
150	6.20	32.86	23.95	.049
200	5.50	32.86	23.96	.053
300	4.70	32.85	23.97	.057
400	4.00	32.85	23.98	.061
500	3.30	32.85	23.99	.065
600		32.85	24.00	.069
700		32.85	24.01	.073
800		32.85	24.02	.077
900		32.85	24.03	.081
1000		32.85	24.04	.085
1100		32.85	24.05	.089
1200		32.85	24.06	.093



CAST RP-7-0C-070 DATE 14 SEP 73 TIME 1418 GMT
 LAT 47.79N LONG 125.419N WEATHER SEA STATE 3
 BAROMETER 1010 WIND DIR 122 T SPD 05 K VISIBILITY 7
 CLOUD 6 AMOUNT 5 DRY 14.4 MET 13.2 DEPTH 1192 M

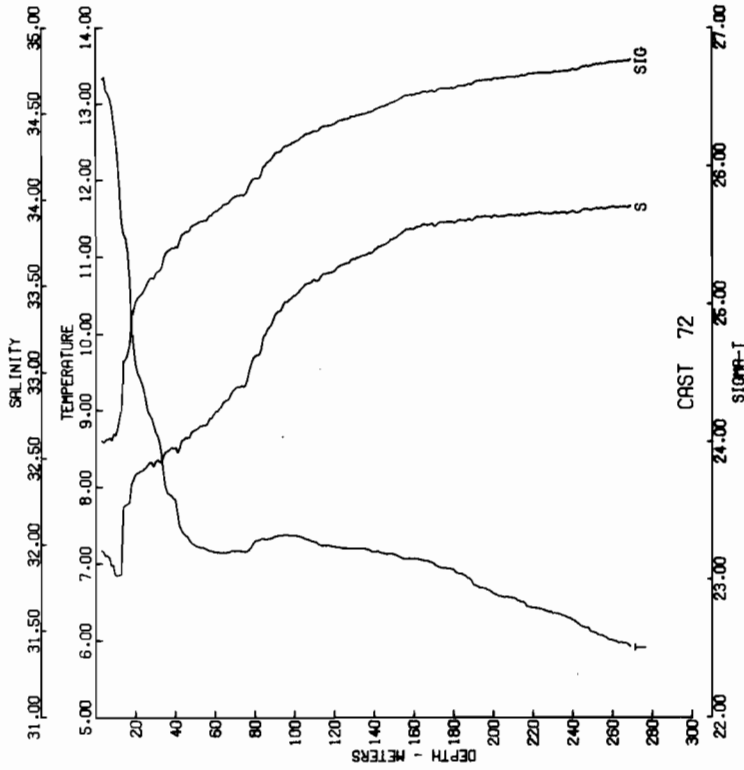


CAST RP-7-0C-069 DATE 14 SEP 73 TIME 1235 GMT
 LAT 47.71N LONG 125.414N WEATHER SEA STATE 3
 BAROMETER 1010 WIND DIR 101 T SPD 03 K VISIBILITY 6
 CLOUD 6 AMOUNT 5 DRY 14.3 MET 13.1 DEPTH 1257 M



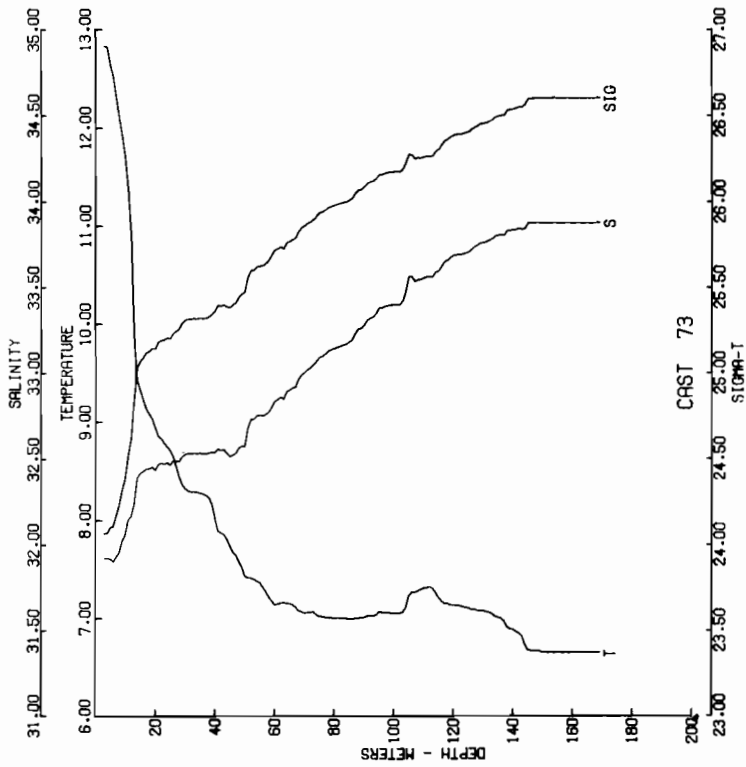
CAST RP-7-OC-071 DATE 14 SEP 72 TIME 1631 GMT
 SECT 0100 T 123.00 T 03.00 T 03.00 T 03.00 T
 BALANCE 2.19 L WIND DIR 000 T SPD 04.0 KTS
 CLOUD X AMOUNT 0 DRY 14.9 MET 13.4 MET 0585 M
 DEPTH 0277 M

DEPTH (M)	TEMPERATURE (C)	SALINITY (PPT)	SIGMA-T (DYN M)	DELTA-S
0	12.44	32.07	24.97	0.000
5	12.96	32.15	24.98	.019
10	11.90	32.22	24.95	.037
15	11.02	32.28	24.91	.054
20	10.36	32.34	24.87	.066
25	9.80	32.39	24.83	.074
30	9.40	32.44	24.80	.080
35	9.08	32.48	24.77	.084
40	8.82	32.52	24.74	.087
45	8.61	32.55	24.72	.089
50	8.44	32.58	24.70	.090
55	8.30	32.60	24.68	.091
60	8.19	32.61	24.67	.091
65	8.10	32.62	24.66	.091
70	8.03	32.62	24.65	.091
75	7.97	32.62	24.64	.091
80	7.92	32.62	24.64	.091
85	7.88	32.62	24.63	.091
90	7.84	32.62	24.63	.091
95	7.81	32.62	24.63	.091
100	7.78	32.62	24.63	.091
150	7.57	32.61	24.61	.089
200	7.39	32.60	24.59	.087
250	7.24	32.59	24.57	.085
300	7.11	32.58	24.55	.083
350	7.00	32.57	24.53	.081
400	6.90	32.56	24.51	.079
450	6.81	32.55	24.49	.077
500	6.73	32.54	24.47	.075
550	6.66	32.53	24.45	.073
600	6.60	32.52	24.43	.071



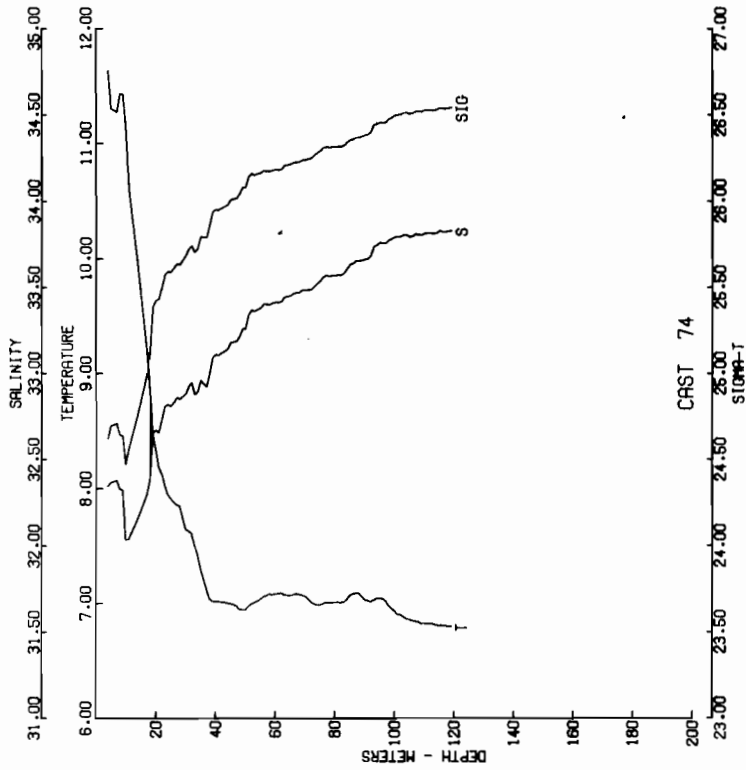
CAST RP-7-OC-072 DATE 14 SEP 72 TIME 1703 GMT
 SECT 0100 T 123.00 T 03.00 T 03.00 T 03.00 T
 BALANCE 2.19 L WIND DIR 000 T SPD 04.0 KTS
 CLOUD X AMOUNT 0 DRY 15.4 MET 13.9 MET 0277 M

DEPTH (M)	TEMPERATURE (C)	SALINITY (PPT)	SIGMA-T (DYN M)	DELTA-S
0	12.50	32.09	25.00	0.000
5	12.77	32.17	25.01	.008
10	11.55	32.23	25.00	.009
15	11.22	32.28	25.00	.017
20	10.26	32.34	25.00	.022
25	9.27	32.40	25.00	.028
30	8.70	32.45	25.00	.033
35	8.00	32.50	25.00	.038
40	7.70	32.54	25.00	.043
45	7.40	32.57	25.00	.048
50	7.15	32.60	25.00	.053
55	7.00	32.62	25.00	.057
60	6.82	32.63	25.00	.060
65	6.70	32.64	25.00	.063
70	6.60	32.64	25.00	.065
75	6.52	32.64	25.00	.067
80	6.45	32.64	25.00	.069
85	6.39	32.64	25.00	.071
90	6.34	32.64	25.00	.073
95	6.29	32.64	25.00	.075
100	6.25	32.64	25.00	.077
150	6.12	32.63	25.00	.079
200	5.92	32.62	25.00	.081
250	5.74	32.61	25.00	.083
300	5.58	32.60	25.00	.085



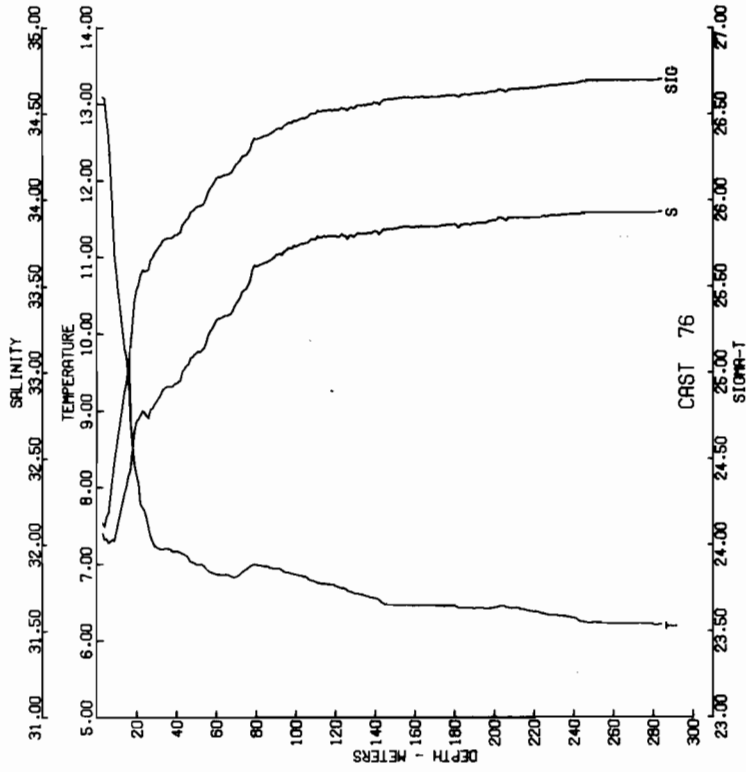
CAST RP-7-00-073 DATE 14 SEP 73 TIME 1755 GMT
 LAT 48 03.5N LONG 121 02.4W SEAMARK 4
 SURFACE WIND DIR 157 REEF 13.7 DEPTH 0169.4
 CLOUD % AMOUNT 0 DAY 15.8 NET 13.7

DEPTH (M)	TEMPERATURE (C)	SALINITY (PPT)	SIGMA-T (DN M)	DELTA-D (DN M)
0	13.20	31.94	24.01	0.000
3	12.83	31.92	24.01	0.19
5	11.90	32.06	24.38	0.04
10	9.33	32.43	25.07	0.06
15	8.94	32.43	25.14	0.06
20	8.72	32.53	25.31	0.09
25	8.72	32.53	25.32	0.19
30	8.93	32.53	25.36	0.12
35	7.74	32.52	25.51	0.16
40	7.02	32.69	25.84	0.16
45	7.02	32.69	25.84	0.25
50	7.02	32.69	25.84	0.33
100	7.02	33.40	26.17	0.33
150	6.65	33.40	26.60	0.33
180	6.65	33.40	26.61	0.33

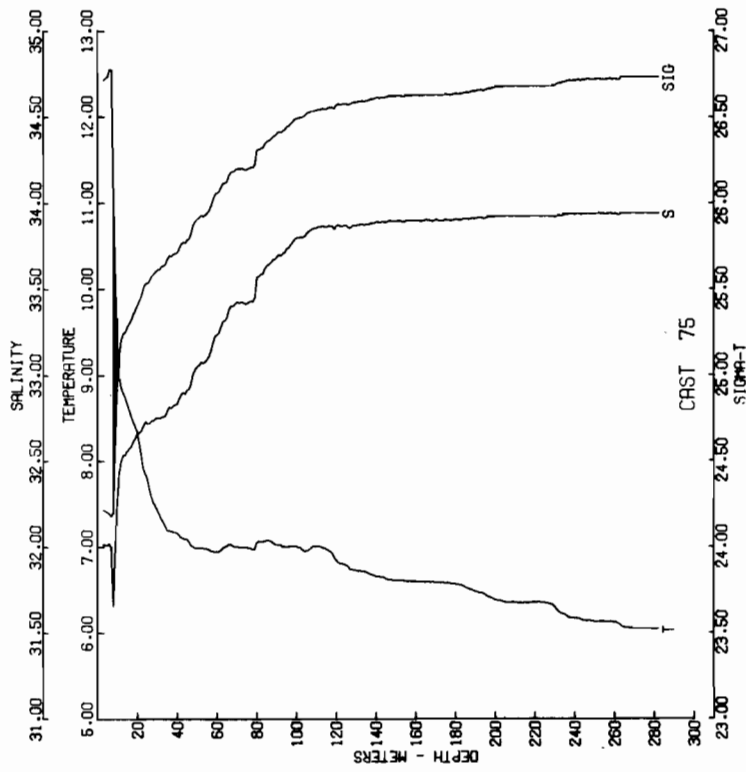


CAST RP-7-CC-074 DATE 14 SEP 73 TIME 1908 GMT
 LAT 48 12.6N LONG 121 06.4W SEAMARK 4
 SURFACE WIND DIR 157 REEF 13.7 DEPTH 0124.4
 CLOUD % AMOUNT 0 DAY 15.7 NET 13.7

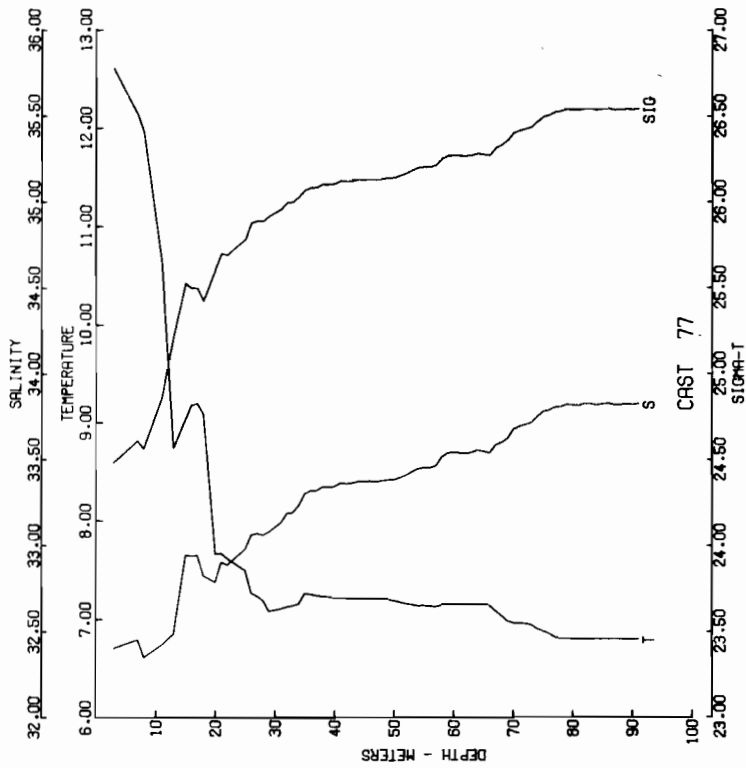
DEPTH (M)	TEMPERATURE (C)	SALINITY (PPT)	SIGMA-T (DN M)	DELTA-D (DN M)
0	11.96	32.34	24.53	0.000
3	11.93	32.33	24.53	0.13
5	11.20	32.33	24.48	0.05
10	9.70	32.20	24.47	0.06
15	9.11	32.20	24.48	0.06
20	8.71	32.26	24.53	0.06
25	8.71	32.26	24.53	0.06
30	7.70	32.36	24.53	0.10
35	7.00	32.31	24.53	0.12
40	6.39	32.31	24.53	0.12
45	6.39	32.31	24.53	0.17
50	6.39	32.31	24.53	0.21
100	6.39	33.03	25.85	0.21
150	6.39	33.03	26.28	0.21
180	6.39	33.03	26.29	0.21



CAST RP-7-CC-076 DATE 14 SEP 73 TIME 2127 GMT
 LAT 48 06 30 N LONG 123 05 34 W WEATHER 4 SEA STATE 2
 BAROMETER 20 WIND DIR 100 T SPD 04 KT VISIBILITY 6
 CLOUD X AMOUNT 0 DRY 15.0 MET 13.0 DEPTH 0280 M

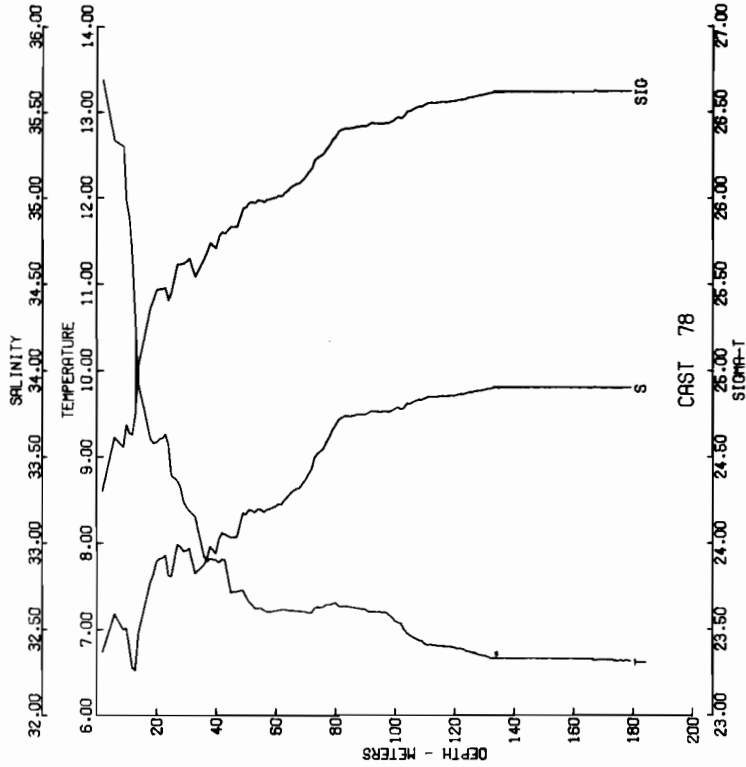


CAST RP-7-CC-075 DATE 14 SEP 73 TIME 2022 GMT
 LAT 48 08 40 N LONG 125 12 34 W WEATHER 4 SEA STATE 0
 BAROMETER 20 WIND DIR 100 T SPD 04 KT VISIBILITY 6
 CLOUD X AMOUNT 0 DRY 17.2 MET 14.3 DEPTH 0280 M



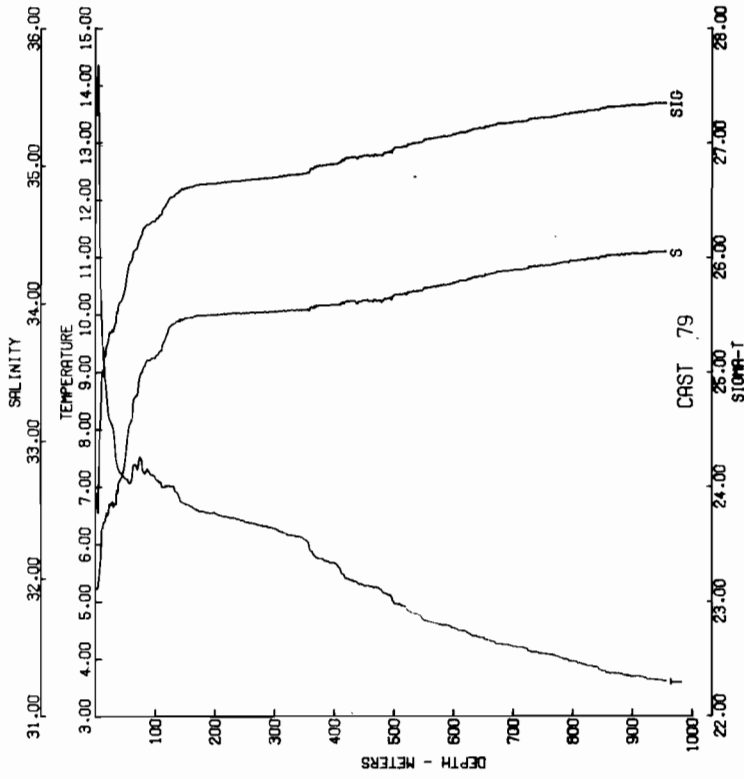
CAST NP-7-0C-377 DATE 15 SEP 73 TIME 0045 GMT
 LAT 47 38 IN LONG 124 43 2M WEATHER 1
 SEA STATE 2
 BAROMETER 20 WIND DIR 190 T SPD 04 KT VISIBILITY 7
 CLOUD 6 AMOUNT 3 DRY 15.7 WET 14.2 DEPTH 0033 M

DEPTH (M)	TEMPERATURE (C)	SALINITY (PPT)	SIGMA-T (DYN M)	DELTA-D
0	12.99	32.37	24.38	0.000
5	12.61	32.40	24.48	.017
10	12.37	32.43	24.54	.048
15	12.03	32.49	24.60	.061
20	11.66	32.59	24.67	.072
25	11.29	32.78	24.78	.083
30	10.99	32.96	24.91	.093
35	10.70	33.10	25.04	.103
40	10.42	33.21	25.17	.112
45	10.17	33.33	25.30	.120
50	9.94	33.43	25.41	.125
55	9.73	33.52	25.50	.128
60	9.54	33.59	25.58	.130
65	9.37	33.65	25.65	.131
70	9.22	33.70	25.71	.132
75	9.09	33.74	25.76	.132
80	8.98	33.77	25.80	.132
85	8.89	33.79	25.83	.132
90	8.82	33.80	25.85	.132
95	8.77	33.81	25.87	.132
100	8.73	33.81	25.88	.132



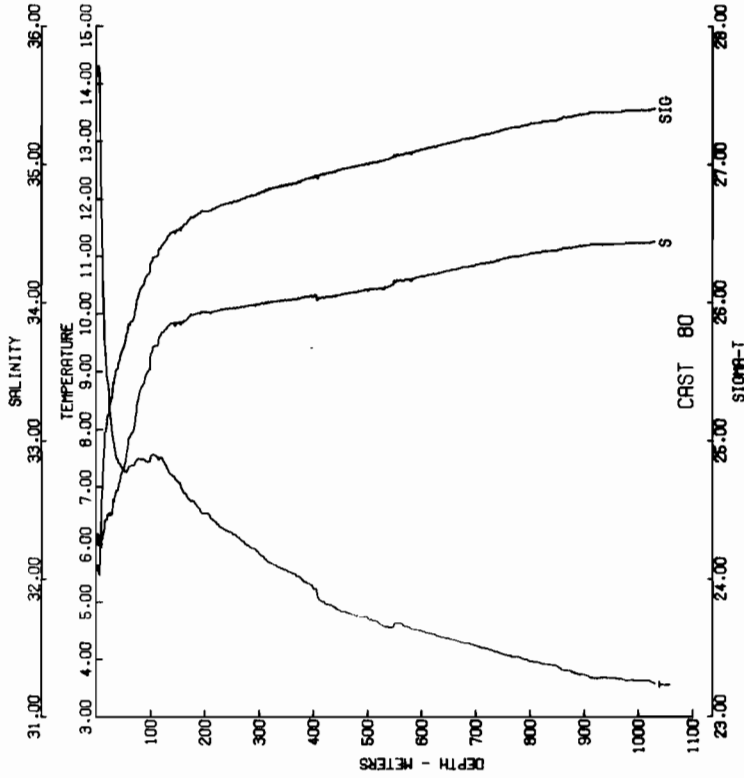
CAST NP-7-0C-078 DATE 15 SEP 73 TIME 0129 GMT
 LAT 47 30 0M LONG 124 54 4M WEATHER 1
 SEA STATE 3
 BAROMETER 20 WIND DIR 176 T SPD 05 KT VISIBILITY 6
 CLOUD 6 AMOUNT 4 DRY 16.5 WET 14.8 DEPTH 0185 M

DEPTH (M)	TEMPERATURE (C)	SALINITY (PPT)	SIGMA-T (DYN M)	DELTA-D
0	13.74	32.29	24.10	0.000
5	13.38	32.37	24.30	.048
10	12.85	32.53	24.54	.083
15	12.25	32.75	24.81	.112
20	11.59	33.02	25.14	.137
25	10.89	33.34	25.51	.162
30	10.16	33.71	25.92	.187
35	9.42	34.06	26.37	.212
40	8.68	34.39	26.84	.237
45	7.90	34.69	27.31	.262
50	7.13	34.97	27.76	.287
55	6.39	35.22	28.19	.312
60	5.66	35.44	28.60	.337
65	4.96	35.63	28.99	.362
70	4.29	35.79	29.36	.387
75	3.65	35.92	29.71	.412
80	3.04	36.02	30.04	.437
85	2.46	36.09	30.35	.462
90	1.92	36.13	30.64	.487
95	1.42	36.15	30.91	.512
100	0.96	36.16	31.16	.537
105	0.54	36.16	31.39	.562
110	0.16	36.15	31.60	.587
115	0.00	36.13	31.78	.612
120	0.00	36.09	31.94	.637
125	0.00	35.92	32.07	.662
130	0.00	35.79	32.17	.687
135	0.00	35.63	32.24	.712
140	0.00	35.44	32.28	.737
145	0.00	35.22	32.29	.762
150	0.00	35.00	32.27	.787
155	0.00	34.79	32.22	.812
160	0.00	34.59	32.14	.837
165	0.00	34.40	32.03	.862
170	0.00	34.22	31.90	.887
175	0.00	34.06	31.75	.912
180	0.00	33.92	31.58	.937
185	0.00	33.79	31.40	.962
190	0.00	33.68	31.20	.987
195	0.00	33.59	31.00	1.012
200	0.00	33.50	30.80	1.037



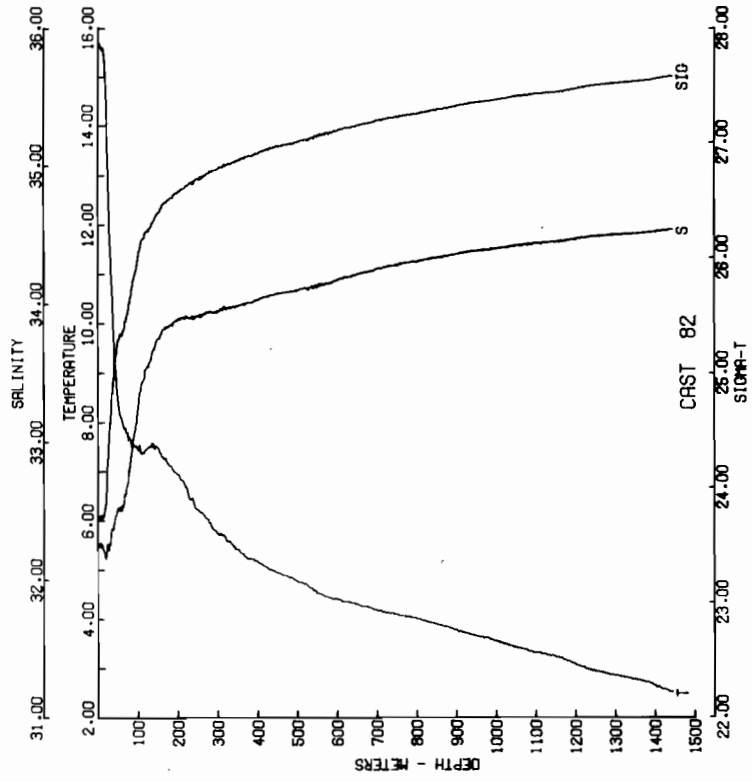
CAST 79-00-079 DATE 15 SEP 73 TIME 0212 GMT
 KURTZ 16.3M SURF DRIFT VELOCITY 6
 BAROMETER -20 LOW 16.0 MET 14.2 DEPTH 0968 M
 CLOUD 6 AMOUNT 5 DRY 14.2 DEPTH 0968 M

DEPTH (M)	TEMPERATURE (C)	SALINITY (PPT)	SIGMA-T (DM)	DELTA-D (DM)
0	14.19	31.24	24.46	0.000
5	14.19	31.24	24.46	0.000
10	12.23	31.24	24.46	0.020
15	10.22	31.24	24.46	0.053
20	10.22	31.24	24.46	0.077
30	10.22	31.24	24.46	0.097
35	10.22	31.24	24.46	0.097
40	10.22	31.24	24.46	0.097
50	10.22	31.24	24.46	0.097
75	7.49	31.24	24.46	0.119
100	7.49	31.24	24.46	0.132
150	7.49	31.24	24.46	0.149
200	7.49	31.24	24.46	0.166
300	7.49	31.24	24.46	0.185
400	7.49	31.24	24.46	0.205
500	7.49	31.24	24.46	0.226
750	7.49	31.24	24.46	0.265
1000	7.49	31.24	24.46	0.310
1100	7.49	31.24	24.46	0.355



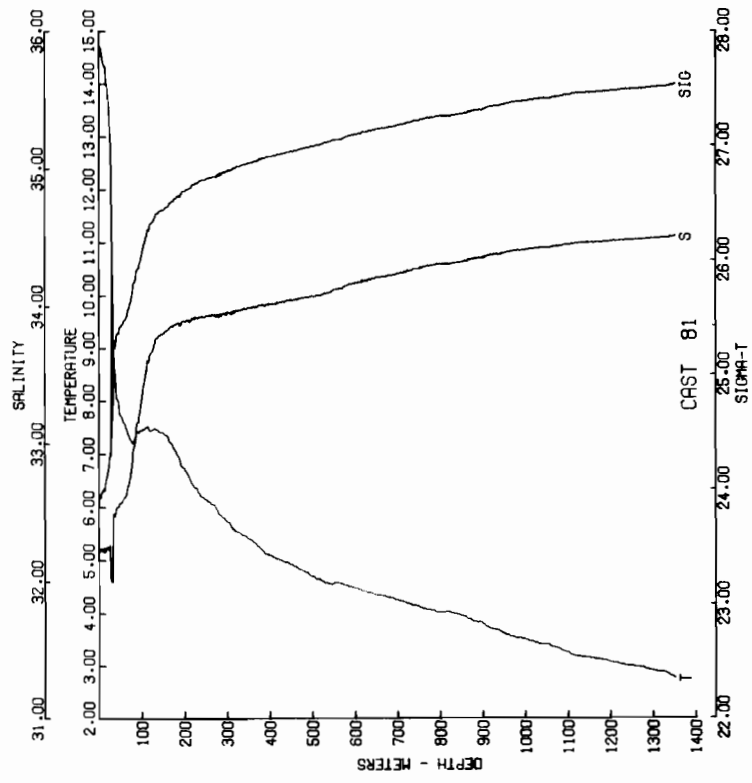
CAST 80-00-080 DATE 15 SEP 73 TIME 0328 GMT
 KURTZ 16.3M SURF DRIFT VELOCITY 6
 BAROMETER -20 LOW 16.0 MET 15.1 DEPTH 1033 M
 CLOUD X AMOUNT 9 DRY 15.1 DEPTH 1033 M

DEPTH (M)	TEMPERATURE (C)	SALINITY (PPT)	SIGMA-T (DM)	DELTA-D (DM)
0	14.25	32.39	24.45	0.000
5	14.22	32.39	24.45	0.000
10	12.21	32.39	24.45	0.019
15	9.95	32.39	24.45	0.053
20	9.95	32.39	24.45	0.077
30	9.95	32.39	24.45	0.097
35	9.95	32.39	24.45	0.097
40	9.95	32.39	24.45	0.097
50	9.95	32.39	24.45	0.097
75	7.45	32.39	24.45	0.122
100	7.45	32.39	24.45	0.136
150	7.45	32.39	24.45	0.160
200	7.45	32.39	24.45	0.178
300	7.45	32.39	24.45	0.200
400	7.45	32.39	24.45	0.222
500	7.45	32.39	24.45	0.245
750	7.45	32.39	24.45	0.284
1000	7.45	32.39	24.45	0.329
1100	7.45	32.39	24.45	0.374



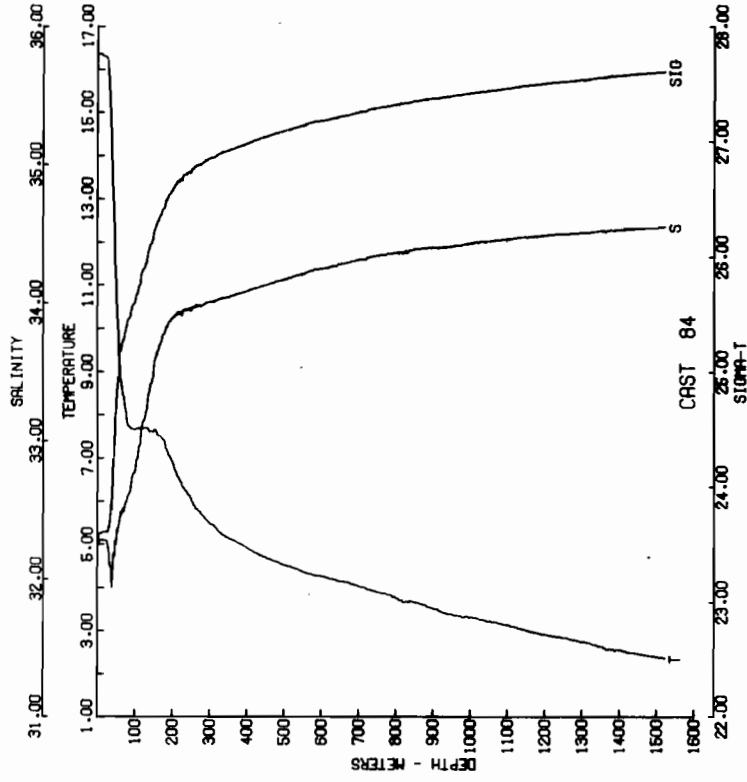
CAST NO-7-00-082 DATE 15 SEP 73 TIME 0654 GMT
 LAT 47 29 11 UTM 125 24 37 4 M BEAT 8
 BAROMETER 21 WIND DIR SPD 06 K VISIBILITY 6
 CLOUD 6 AMOUNT DRY 14.8 MET 13.9 MET 14.7 M

DEPTH (M)	TEMPERATURE (C)	SALINITY (PPT)	SIGMA-T	DELTA-D (DYN M)
0	15.76	32.1	26.62	0.000
5	15.64	32.25	26.77	.021
10	15.54	32.25	26.93	.042
15	15.47	32.25	27.06	.063
20	15.37	32.25	27.17	.082
25	15.25	32.25	27.27	.100
30	15.10	32.25	27.35	.118
35	14.92	32.25	27.42	.135
40	14.71	32.25	27.48	.150
45	14.48	32.25	27.53	.166
50	14.23	32.25	27.57	.181
55	13.97	32.25	27.60	.194
60	13.71	32.25	27.63	.207
65	13.44	32.25	27.65	.219
70	13.17	32.25	27.67	.230
75	12.90	32.25	27.68	.240
80	12.63	32.25	27.69	.249
85	12.36	32.25	27.70	.257
90	12.09	32.25	27.71	.264
95	11.82	32.25	27.71	.270
100	11.55	32.25	27.71	.275
105	11.28	32.25	27.71	.279
110	11.01	32.25	27.71	.282
115	10.74	32.25	27.71	.285
120	10.47	32.25	27.71	.287
125	10.20	32.25	27.71	.289
130	9.93	32.25	27.71	.291
135	9.66	32.25	27.71	.292
140	9.39	32.25	27.71	.293
145	9.12	32.25	27.71	.294
150	8.85	32.25	27.71	.294



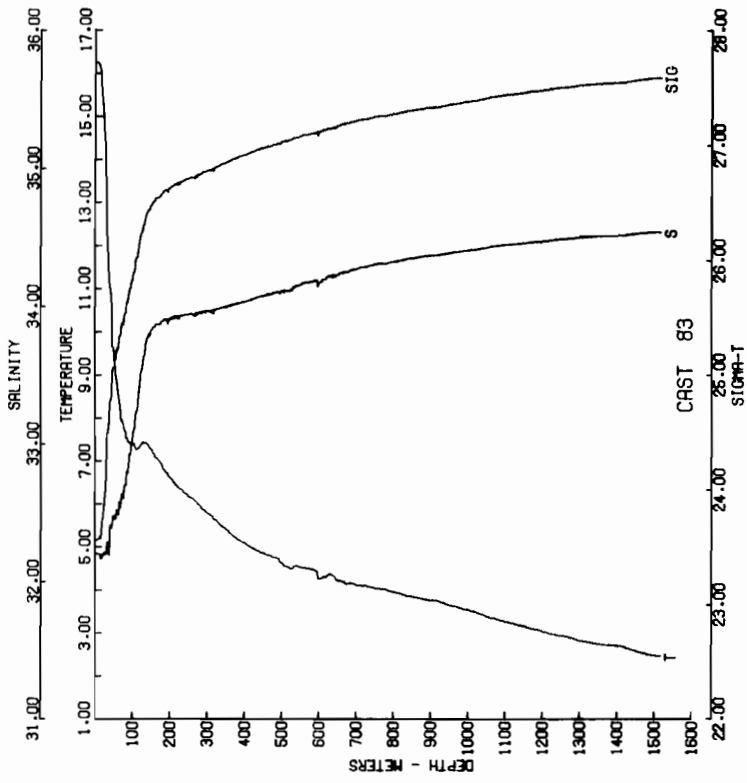
CAST NO-7-00-081 DATE 15 SEP 73 TIME 0654 GMT
 LAT 47 29 11 UTM 125 24 37 4 M BEAT 8
 BAROMETER 21 WIND DIR SPD 06 K VISIBILITY 6
 CLOUD X AMOUNT 9 DRY 14.9 MET 14.0 MET 13.54 M

DEPTH (M)	TEMPERATURE (C)	SALINITY (PPT)	SIGMA-T	DELTA-D (DYN M)
0	15.85	32.23	26.89	0.000
5	14.58	32.23	27.05	.040
10	14.39	32.23	27.19	.079
15	14.17	32.23	27.31	.117
20	13.96	32.23	27.42	.155
25	13.72	32.23	27.52	.192
30	13.52	32.23	27.61	.229
35	13.29	32.23	27.69	.265
40	13.07	32.23	27.76	.300
45	12.84	32.23	27.82	.334
50	12.61	32.23	27.87	.367
55	12.38	32.23	27.91	.400
60	12.15	32.23	27.94	.432
65	11.92	32.23	27.97	.463
70	11.69	32.23	27.99	.493
75	11.46	32.23	28.01	.522
80	11.23	32.23	28.02	.550
85	11.00	32.23	28.03	.577
90	10.77	32.23	28.03	.603
95	10.54	32.23	28.03	.628
100	10.31	32.23	28.03	.652
105	10.08	32.23	28.03	.675
110	9.85	32.23	28.03	.697
115	9.62	32.23	28.03	.718
120	9.39	32.23	28.03	.738
125	9.16	32.23	28.03	.757
130	8.93	32.23	28.03	.775
135	8.70	32.23	28.03	.792
140	8.47	32.23	28.03	.808
145	8.24	32.23	28.03	.823
150	8.01	32.23	28.03	.837



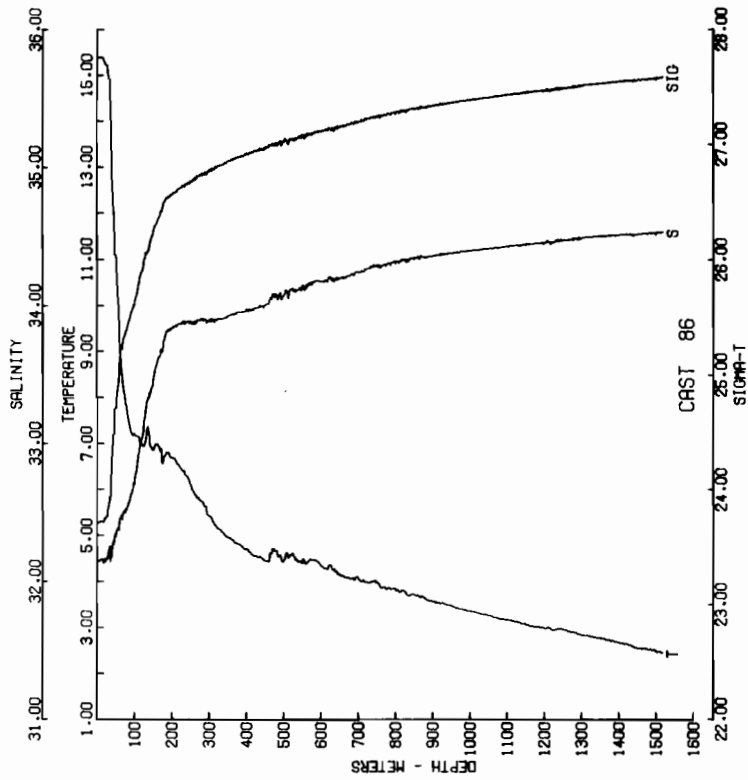
CAST RP-7-0C-084 DATE 15 SEP 73 TIME 1220 GMT
 LAT 47 29.9N LONG 126 39.3W WEATHER 1 SEA STATE 3
 BAROMETER 20 WIND DIR 050 T SPD 06 K VISIBILITY 6
 CLOUD X AMOUNT 9 DRY 15.8 WET 13.1 DEPTH 2417 M

DEPTH (M)	TEMPERATURE (C)	SALINITY (PPT)	DELTA-D (DYN M)
0	16.37	32.20	27.50
5	16.27	32.20	27.50
10	16.27	32.20	27.50
15	16.27	32.20	27.50
20	16.27	32.20	27.50
25	16.27	32.20	27.50
30	16.27	32.20	27.50
35	16.27	32.20	27.50
40	16.27	32.20	27.50
45	16.27	32.20	27.50
50	16.27	32.20	27.50
55	16.27	32.20	27.50
60	16.27	32.20	27.50
65	16.27	32.20	27.50
70	16.27	32.20	27.50
75	16.27	32.20	27.50
80	16.27	32.20	27.50
85	16.27	32.20	27.50
90	16.27	32.20	27.50
95	16.27	32.20	27.50
100	16.27	32.20	27.50
105	16.27	32.20	27.50
110	16.27	32.20	27.50
115	16.27	32.20	27.50
120	16.27	32.20	27.50
125	16.27	32.20	27.50
130	16.27	32.20	27.50
135	16.27	32.20	27.50
140	16.27	32.20	27.50
145	16.27	32.20	27.50
150	16.27	32.20	27.50
155	16.27	32.20	27.50
160	16.27	32.20	27.50



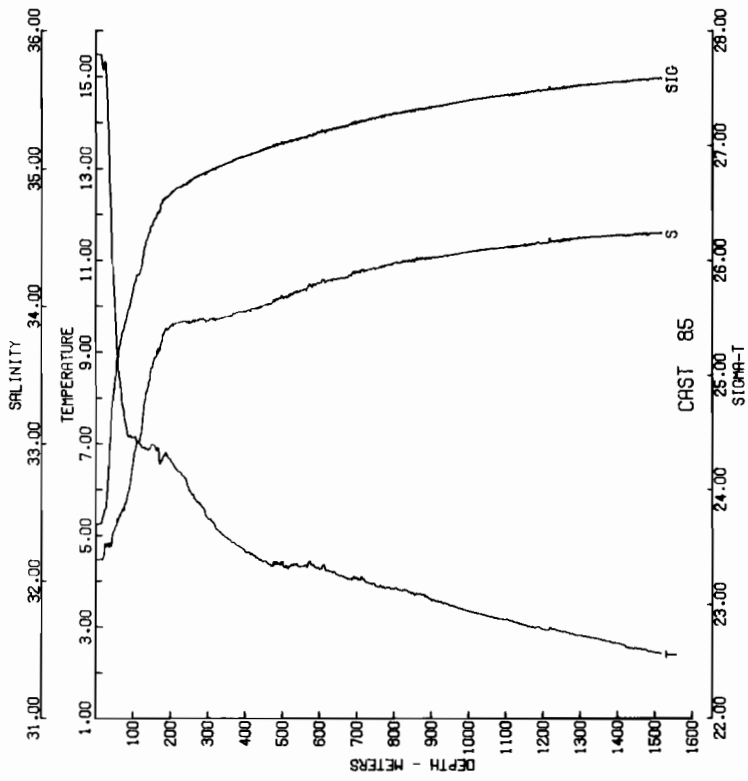
CAST RP-7-0C-083 DATE 15 SEP 73 TIME 0916 GMT
 LAT 47 30.6N LONG 125 58.3W WEATHER 1 SEA STATE 6
 BAROMETER 22 WIND DIR 050 T SPD 10 K VISIBILITY 6
 CLOUD X AMOUNT 9 DRY 14.8 WET 13.1 DEPTH 1688 M

DEPTH (M)	TEMPERATURE (C)	SALINITY (PPT)	DELTA-D (DYN M)
0	16.27	32.20	27.50
5	16.27	32.20	27.50
10	16.27	32.20	27.50
15	16.27	32.20	27.50
20	16.27	32.20	27.50
25	16.27	32.20	27.50
30	16.27	32.20	27.50
35	16.27	32.20	27.50
40	16.27	32.20	27.50
45	16.27	32.20	27.50
50	16.27	32.20	27.50
55	16.27	32.20	27.50
60	16.27	32.20	27.50
65	16.27	32.20	27.50
70	16.27	32.20	27.50
75	16.27	32.20	27.50
80	16.27	32.20	27.50
85	16.27	32.20	27.50
90	16.27	32.20	27.50
95	16.27	32.20	27.50
100	16.27	32.20	27.50
105	16.27	32.20	27.50
110	16.27	32.20	27.50
115	16.27	32.20	27.50
120	16.27	32.20	27.50
125	16.27	32.20	27.50
130	16.27	32.20	27.50
135	16.27	32.20	27.50
140	16.27	32.20	27.50
145	16.27	32.20	27.50
150	16.27	32.20	27.50
155	16.27	32.20	27.50
160	16.27	32.20	27.50



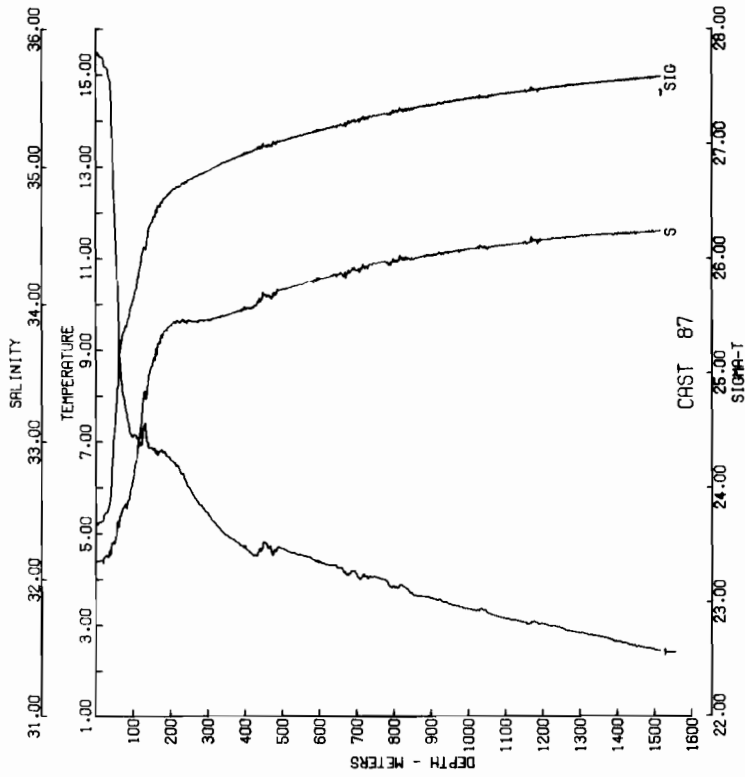
CAST 86-7-00-086 DATE 15 SEP 73 TIME 1700 GMT
 LAT 47.30N LONG 127.16W DIR 011 MET 05 KT VISIBILITY 7
 BAROMETER 20 LOG NO DRY 14.9 MET 13.5
 CLOUD X AMOUNT 0

DEPTH (M)	TEMPERATURE (C)	SALINITY (PPT)	DELTA-D (DYN M)
0	15.44	32.70	0.000
5	15.44	32.70	0.021
10	15.44	32.70	0.042
15	15.44	32.70	0.063
20	15.44	32.70	0.084
25	15.44	32.70	0.105
30	15.44	32.70	0.125
35	15.44	32.70	0.146
40	15.44	32.70	0.167
45	15.44	32.70	0.188
50	15.44	32.70	0.209
55	15.44	32.70	0.230
60	15.44	32.70	0.251
65	15.44	32.70	0.272
70	15.44	32.70	0.293
75	15.44	32.70	0.314
80	15.44	32.70	0.335
85	15.44	32.70	0.356
90	15.44	32.70	0.377
95	15.44	32.70	0.398
100	15.44	32.70	0.419
105	15.44	32.70	0.440
110	15.44	32.70	0.461
115	15.44	32.70	0.482
120	15.44	32.70	0.503
125	15.44	32.70	0.524
130	15.44	32.70	0.545
135	15.44	32.70	0.566
140	15.44	32.70	0.587
145	15.44	32.70	0.608
150	15.44	32.70	0.629
155	15.44	32.70	0.650
160	15.44	32.70	0.671



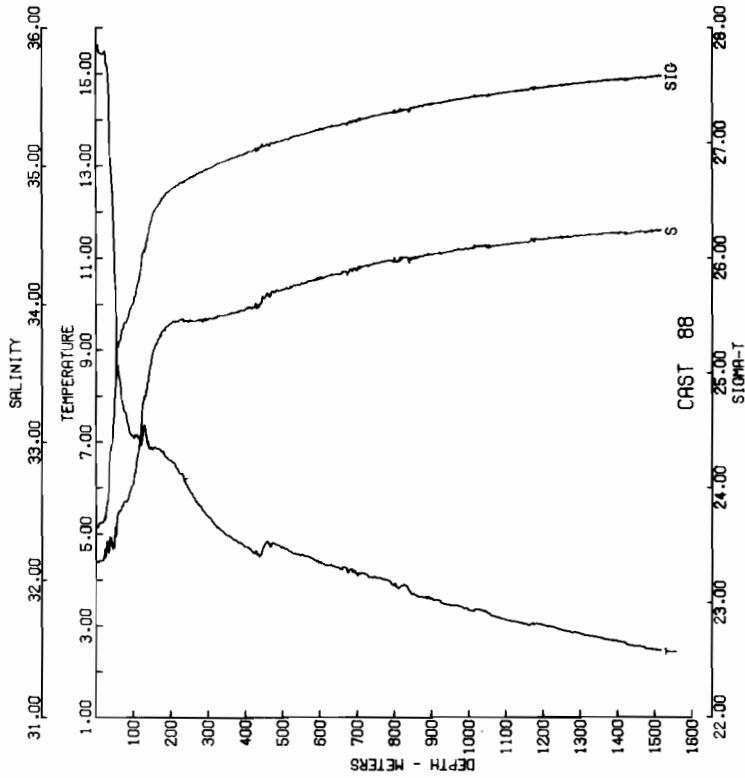
CAST 85-7-00-085 DATE 15 SEP 73 TIME 1510 GMT
 LAT 47.30N LONG 127.16W DIR 011 MET 05 KT VISIBILITY 7
 BAROMETER 20 LOG NO DRY 14.7 MET 13.2
 CLOUD X AMOUNT 0

DEPTH (M)	TEMPERATURE (C)	SALINITY (PPT)	DELTA-D (DYN M)
0	15.44	32.70	0.000
5	15.44	32.70	0.021
10	15.44	32.70	0.042
15	15.44	32.70	0.063
20	15.44	32.70	0.084
25	15.44	32.70	0.105
30	15.44	32.70	0.125
35	15.44	32.70	0.146
40	15.44	32.70	0.167
45	15.44	32.70	0.188
50	15.44	32.70	0.209
55	15.44	32.70	0.230
60	15.44	32.70	0.251
65	15.44	32.70	0.272
70	15.44	32.70	0.293
75	15.44	32.70	0.314
80	15.44	32.70	0.335
85	15.44	32.70	0.356
90	15.44	32.70	0.377
95	15.44	32.70	0.398
100	15.44	32.70	0.419
105	15.44	32.70	0.440
110	15.44	32.70	0.461
115	15.44	32.70	0.482
120	15.44	32.70	0.503
125	15.44	32.70	0.524
130	15.44	32.70	0.545
135	15.44	32.70	0.566
140	15.44	32.70	0.587
145	15.44	32.70	0.608
150	15.44	32.70	0.629
155	15.44	32.70	0.650
160	15.44	32.70	0.671



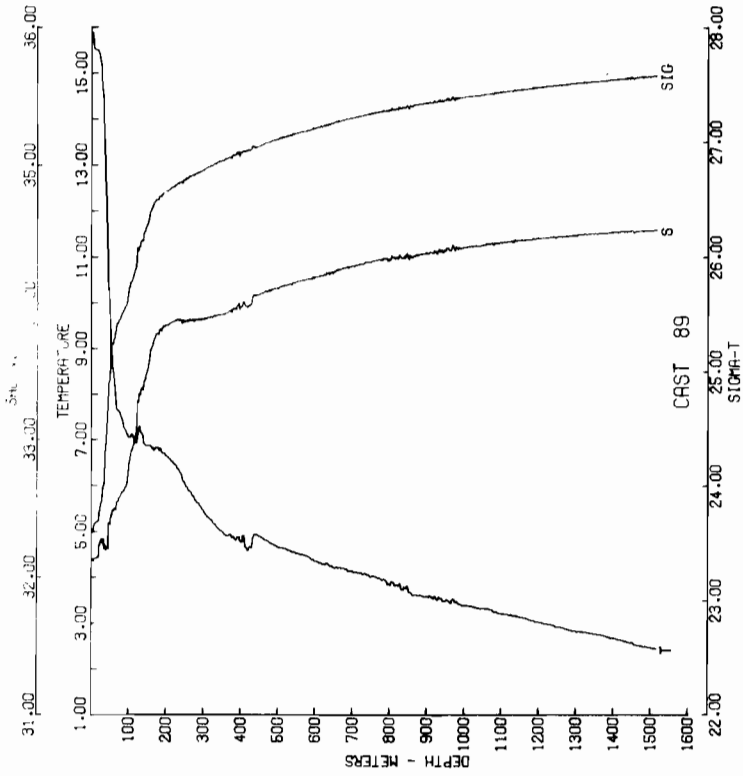
CAST 87-7-OC-087 DATE 15 SEP 73 TIME 1810 GMT
 LAT 47 23.8N LONG 127 20.4W WEATHER 4 SEA STATE 2
 BAROMETER 10.0 WIND DIR 040 T SPD 06 KT VISIBILITY 7
 CLOUD X AMOUNT 0 DRY 13.5 WET 13.5 DEPTH 2591 M

DEPTH (M)	TEMPERATURE (C)	SALINITY (PPT)	SIGMA-T (DYN M)	DELTA-D
0	15.56	32.13	23.68	0.000
10	15.41	32.13	23.68	.042
20	15.27	32.13	23.68	.083
30	15.14	32.13	23.68	.124
40	15.01	32.13	23.68	.165
50	14.87	32.13	23.68	.206
60	14.74	32.13	23.68	.247
70	14.61	32.13	23.68	.288
80	14.47	32.13	23.68	.329
90	14.34	32.13	23.68	.370
100	14.21	32.13	23.68	.411
150	13.87	32.13	23.68	.452
200	13.53	32.13	23.68	.493
250	13.19	32.13	23.68	.534
300	12.85	32.13	23.68	.575
350	12.51	32.13	23.68	.616
400	12.17	32.13	23.68	.657
450	11.83	32.13	23.68	.698
500	11.49	32.13	23.68	.739
550	11.15	32.13	23.68	.780
600	10.81	32.13	23.68	.821
650	10.47	32.13	23.68	.862
700	10.13	32.13	23.68	.903
750	9.79	32.13	23.68	.944
800	9.45	32.13	23.68	.985
850	9.11	32.13	23.68	1.026
900	8.77	32.13	23.68	1.067
950	8.43	32.13	23.68	1.108
1000	8.09	32.13	23.68	1.149
1050	7.75	32.13	23.68	1.190
1100	7.41	32.13	23.68	1.231
1150	7.07	32.13	23.68	1.272
1200	6.73	32.13	23.68	1.313
1250	6.39	32.13	23.68	1.354
1300	6.05	32.13	23.68	1.395
1350	5.71	32.13	23.68	1.436
1400	5.37	32.13	23.68	1.477
1450	5.03	32.13	23.68	1.518
1500	4.69	32.13	23.68	1.559
1550	4.35	32.13	23.68	1.600
1600	4.01	32.13	23.68	1.641



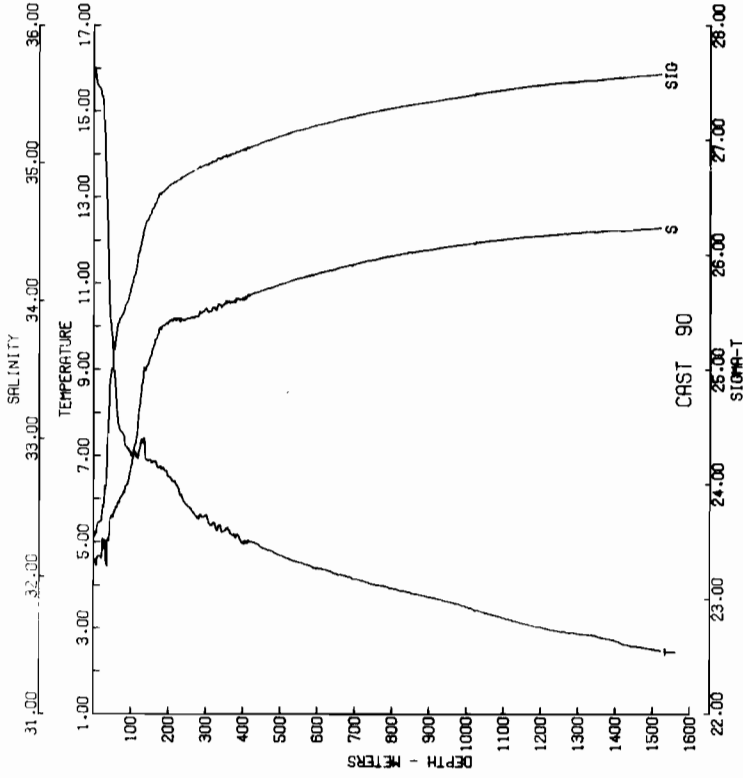
CAST 88-7-CC-088 DATE 15 SEP 73 TIME 1959 GMT
 LAT 47 30.2N LONG 127 20.2W WEATHER 4 SEA STATE 2
 BAROMETER 10.0 WIND DIR 050 T SPD 06 KT VISIBILITY 7
 CLOUD X AMOUNT 0 DRY 16.0 WET 13.9 DEPTH 2591 M

DEPTH (M)	TEMPERATURE (C)	SALINITY (PPT)	SIGMA-T (DYN M)	DELTA-D
0	15.82	32.14	23.61	0.000
10	15.68	32.14	23.61	.041
20	15.54	32.14	23.61	.082
30	15.41	32.14	23.61	.123
40	15.27	32.14	23.61	.164
50	15.14	32.14	23.61	.205
60	15.01	32.14	23.61	.246
70	14.87	32.14	23.61	.287
80	14.74	32.14	23.61	.328
90	14.61	32.14	23.61	.369
100	14.47	32.14	23.61	.410
150	14.13	32.14	23.61	.451
200	13.79	32.14	23.61	.492
250	13.45	32.14	23.61	.533
300	13.11	32.14	23.61	.574
350	12.77	32.14	23.61	.615
400	12.43	32.14	23.61	.656
450	12.09	32.14	23.61	.697
500	11.75	32.14	23.61	.738
550	11.41	32.14	23.61	.779
600	11.07	32.14	23.61	.820
650	10.73	32.14	23.61	.861
700	10.39	32.14	23.61	.902
750	10.05	32.14	23.61	.943
800	9.71	32.14	23.61	.984
850	9.37	32.14	23.61	1.025
900	9.03	32.14	23.61	1.066
950	8.69	32.14	23.61	1.107
1000	8.35	32.14	23.61	1.148
1050	8.01	32.14	23.61	1.189
1100	7.67	32.14	23.61	1.230
1150	7.33	32.14	23.61	1.271
1200	6.99	32.14	23.61	1.312
1250	6.65	32.14	23.61	1.353
1300	6.31	32.14	23.61	1.394
1350	5.97	32.14	23.61	1.435
1400	5.63	32.14	23.61	1.476
1450	5.29	32.14	23.61	1.517
1500	4.95	32.14	23.61	1.558
1550	4.61	32.14	23.61	1.599
1600	4.27	32.14	23.61	1.640



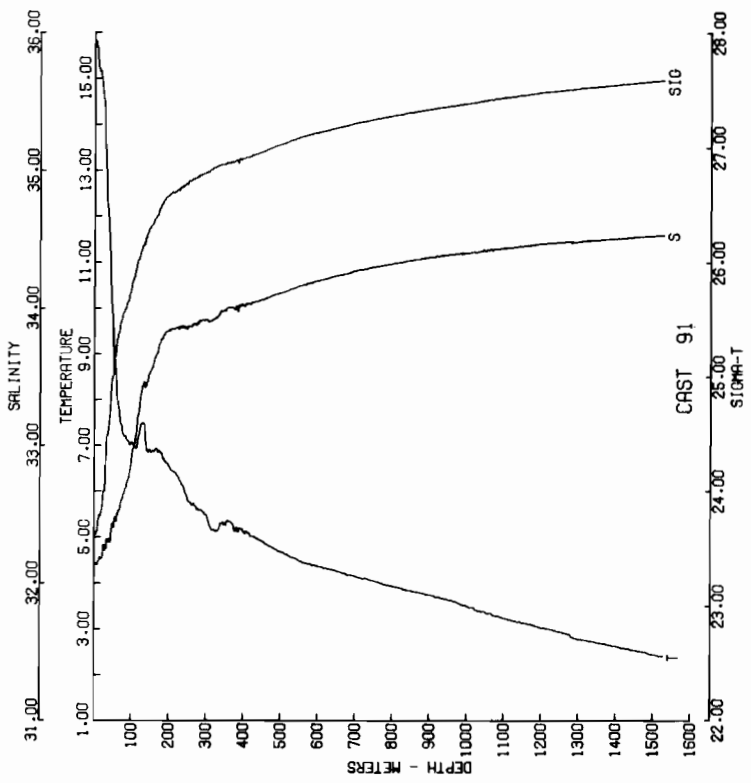
CAST RP-7-OC-089 DATE 15 SEP 73 TIME 2330 GMT
 LAT 47 30.2N LONG 127 19.5W WEATHER 4 SEA STATE 2
 BAROMETER AMOUNT 0 WIND DIR 055 T SPD 06.7 WVSIBILITY 7
 CLOUD X AMOUNT 0 CRY 18.9 DEPTH 2553 M

DEPTH (M)	TEMPERATURE (C)	SALINITY (PPT)	DELTA-S (DYN M)
0	19.27	32.14	23.51
1	19.09	32.13	23.52
10	18.95	32.13	23.53
15	18.92	32.13	23.53
16	18.91	32.13	23.53
17	18.91	32.13	23.53
18	18.91	32.13	23.53
19	18.91	32.13	23.53
20	18.91	32.13	23.53
25	18.91	32.13	23.53
30	18.91	32.13	23.53
35	18.91	32.13	23.53
40	18.91	32.13	23.53
45	18.91	32.13	23.53
50	18.91	32.13	23.53
55	18.91	32.13	23.53
60	18.91	32.13	23.53
65	18.91	32.13	23.53
70	18.91	32.13	23.53
75	18.91	32.13	23.53
80	18.91	32.13	23.53
85	18.91	32.13	23.53
90	18.91	32.13	23.53
95	18.91	32.13	23.53
100	18.91	32.13	23.53
105	18.91	32.13	23.53
110	18.91	32.13	23.53
115	18.91	32.13	23.53
120	18.91	32.13	23.53
125	18.91	32.13	23.53
130	18.91	32.13	23.53
135	18.91	32.13	23.53
140	18.91	32.13	23.53
145	18.91	32.13	23.53
150	18.91	32.13	23.53
155	18.91	32.13	23.53
160	18.91	32.13	23.53



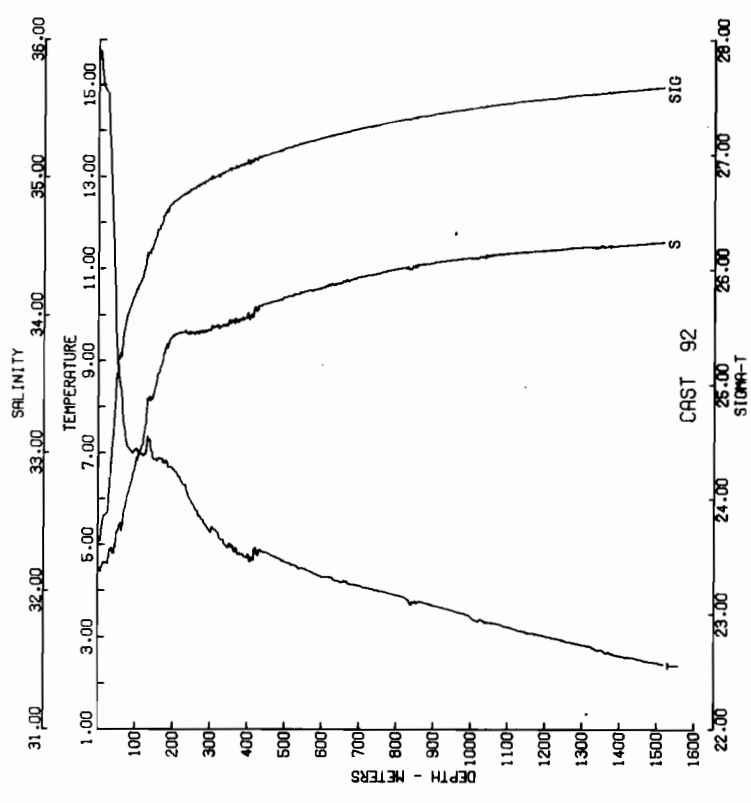
CAST RP-7-OC-090 DATE 15 SEP 73 TIME 2300 GMT
 LAT 47 29.5N LONG 127 19.5W WEATHER 4 SEA STATE 2
 BAROMETER AMOUNT 0 WIND DIR 055 T SPD 06.7 WVSIBILITY 7
 CLOUD X AMOUNT 0 CRY 17.4 DEPTH 2585 M

DEPTH (M)	TEMPERATURE (C)	SALINITY (PPT)	DELTA-S (DYN M)
0	16.12	32.13	23.51
1	16.03	32.12	23.52
10	15.87	32.12	23.53
15	15.85	32.12	23.53
16	15.84	32.12	23.53
17	15.84	32.12	23.53
18	15.84	32.12	23.53
19	15.84	32.12	23.53
20	15.84	32.12	23.53
25	15.84	32.12	23.53
30	15.84	32.12	23.53
35	15.84	32.12	23.53
40	15.84	32.12	23.53
45	15.84	32.12	23.53
50	15.84	32.12	23.53
55	15.84	32.12	23.53
60	15.84	32.12	23.53
65	15.84	32.12	23.53
70	15.84	32.12	23.53
75	15.84	32.12	23.53
80	15.84	32.12	23.53
85	15.84	32.12	23.53
90	15.84	32.12	23.53
95	15.84	32.12	23.53
100	15.84	32.12	23.53
105	15.84	32.12	23.53
110	15.84	32.12	23.53
115	15.84	32.12	23.53
120	15.84	32.12	23.53
125	15.84	32.12	23.53
130	15.84	32.12	23.53
135	15.84	32.12	23.53
140	15.84	32.12	23.53
145	15.84	32.12	23.53
150	15.84	32.12	23.53
155	15.84	32.12	23.53
160	15.84	32.12	23.53



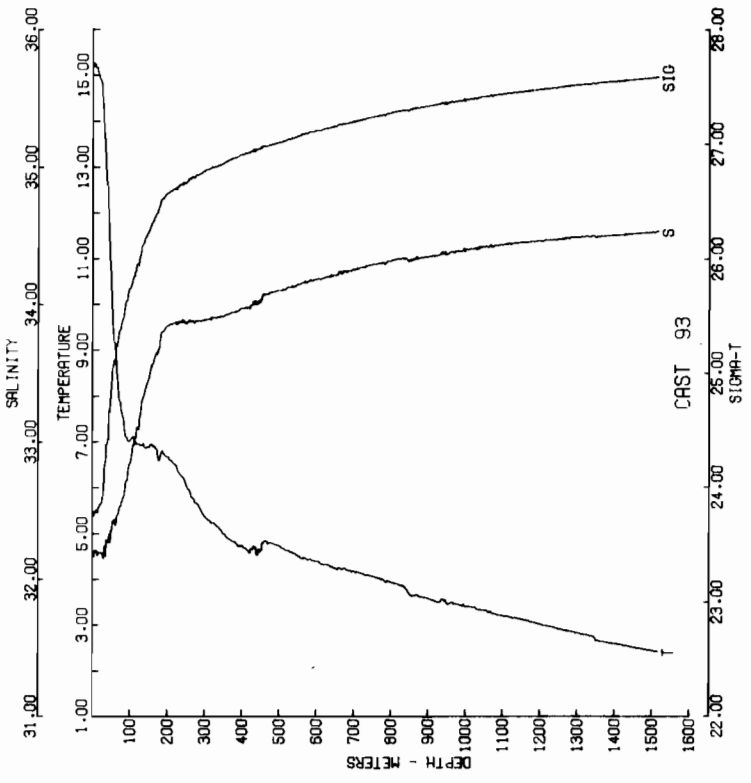
CAST 91-7-CC-091 DATE 16 SEP 73 TIME 0030 GMT
 LAT 47.74 N LONG 127.18 W WIND DIR 037 WEATHER 4
 BAROMETER 1010.0 DRY 16.5 WET 14.9 DEPR 257 N M
 CLOUD X AMOUNT 0 DRY 14.9 WET 14.9

DEPTH (M)	TEMPERATURE (C)	SALINITY (PPT)	SIGMA-T	DELTA-S
0	15.75	35.00	23.64	0.000
1	15.72	35.00	23.64	0.021
2	15.72	35.00	23.64	0.063
3	15.72	35.00	23.64	0.084
4	15.72	35.00	23.64	0.105
5	15.72	35.00	23.64	0.126
6	15.72	35.00	23.64	0.147
7	15.72	35.00	23.64	0.168
8	15.72	35.00	23.64	0.189
9	15.72	35.00	23.64	0.210
10	15.72	35.00	23.64	0.231
11	15.72	35.00	23.64	0.252
12	15.72	35.00	23.64	0.273
13	15.72	35.00	23.64	0.294
14	15.72	35.00	23.64	0.315
15	15.72	35.00	23.64	0.336
16	15.72	35.00	23.64	0.357
17	15.72	35.00	23.64	0.378
18	15.72	35.00	23.64	0.399
19	15.72	35.00	23.64	0.420
20	15.72	35.00	23.64	0.441
21	15.72	35.00	23.64	0.462
22	15.72	35.00	23.64	0.483
23	15.72	35.00	23.64	0.504
24	15.72	35.00	23.64	0.525
25	15.72	35.00	23.64	0.546
26	15.72	35.00	23.64	0.567
27	15.72	35.00	23.64	0.588
28	15.72	35.00	23.64	0.609



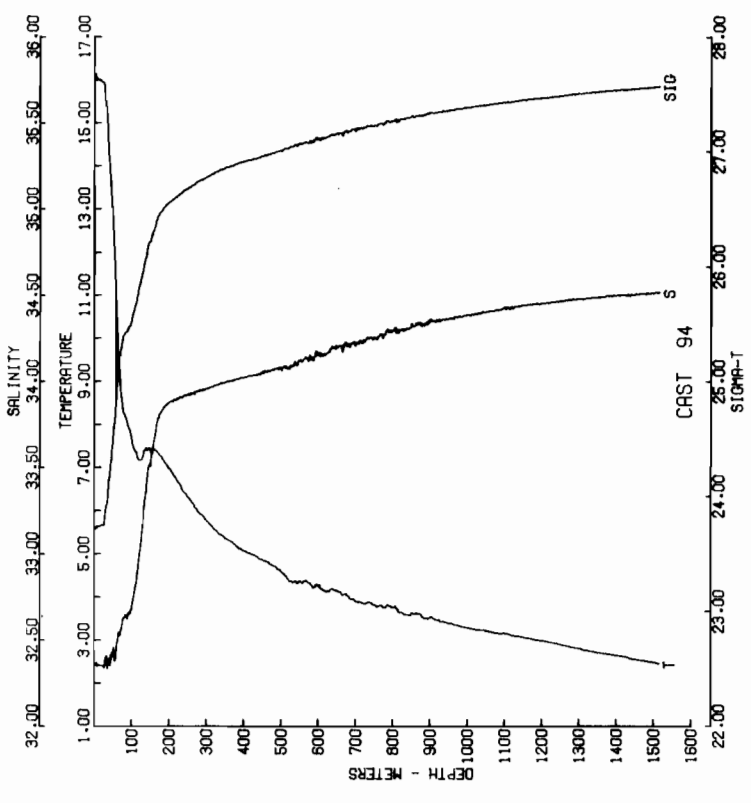
CAST 92-7-CC-092 DATE 16 SEP 73 TIME 0200 GMT
 LAT 47.25 N LONG 127.28 W WIND DIR 037 WEATHER 4
 BAROMETER 1010.0 DRY 15.7 WET 14.9 DEPR 256 N M
 CLOUD X AMOUNT 0 DRY 15.7 WET 14.9

DEPTH (M)	TEMPERATURE (C)	SALINITY (PPT)	SIGMA-T	DELTA-S
0	15.75	35.00	23.64	0.000
1	15.72	35.00	23.64	0.021
2	15.72	35.00	23.64	0.063
3	15.72	35.00	23.64	0.084
4	15.72	35.00	23.64	0.105
5	15.72	35.00	23.64	0.126
6	15.72	35.00	23.64	0.147
7	15.72	35.00	23.64	0.168
8	15.72	35.00	23.64	0.189
9	15.72	35.00	23.64	0.210
10	15.72	35.00	23.64	0.231
11	15.72	35.00	23.64	0.252
12	15.72	35.00	23.64	0.273
13	15.72	35.00	23.64	0.294
14	15.72	35.00	23.64	0.315
15	15.72	35.00	23.64	0.336
16	15.72	35.00	23.64	0.357
17	15.72	35.00	23.64	0.378
18	15.72	35.00	23.64	0.399
19	15.72	35.00	23.64	0.420
20	15.72	35.00	23.64	0.441
21	15.72	35.00	23.64	0.462
22	15.72	35.00	23.64	0.483
23	15.72	35.00	23.64	0.504
24	15.72	35.00	23.64	0.525
25	15.72	35.00	23.64	0.546
26	15.72	35.00	23.64	0.567
27	15.72	35.00	23.64	0.588
28	15.72	35.00	23.64	0.609



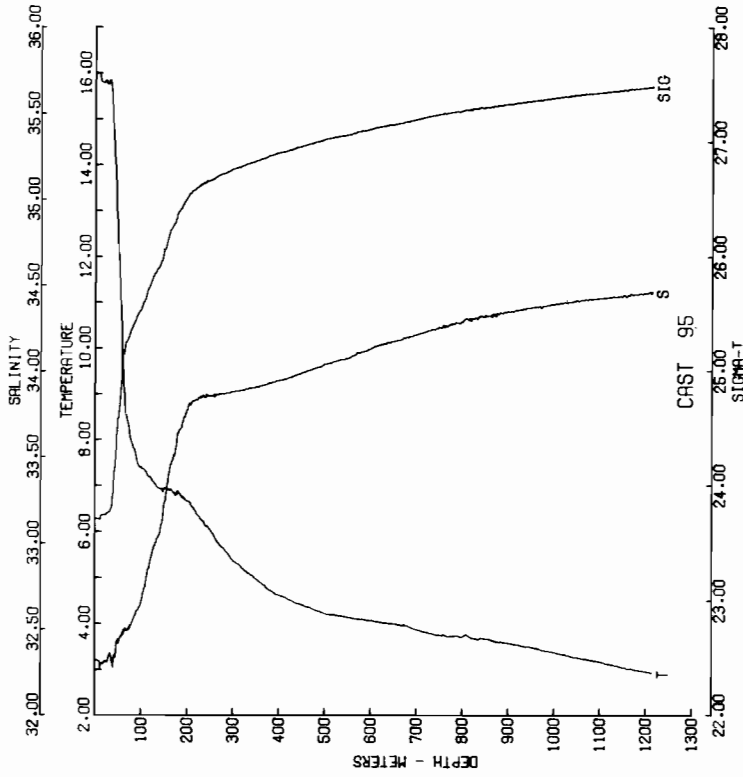
CAST HP-7-CC-093 DATE 16 SEP 73 TIME 0320 GMT
 LAT 47 29.7N LONG 127 20.0W WEATHER 1 SEA STATE 2
 BAROMETER 16 WIND DIR 049 T SPD 06 Kt VISIBILITY 7
 CLOUD 7 AMOUNT 1 CRY 15.7 MET 14.2 DEPTH 2585 M

DEPTH (M)	TEMPERATURE (C)	SALINITY (PPT)	SIGMA-T	DELTA-J (DYN M)
0	15.27	32.10	23.70	0.000
5	15.23	32.11	23.75	.021
10	15.19	32.10	23.80	.021
20	14.99	32.00	23.95	.002
25	14.82	32.20	24.07	.103
30	14.61	32.15	24.19	.123
35	14.35	32.07	24.30	.160
45	14.13	32.03	24.40	.177
50	13.98	32.03	24.48	.193
100	13.70	32.03	24.65	.225
150	13.47	32.06	24.80	.252
200	13.28	32.07	24.93	.270
300	12.99	32.07	25.10	.288
400	12.75	32.07	25.25	.297
500	12.50	32.07	25.39	.300
1000	12.02	32.07	25.70	.306
1500	11.46	32.07	26.00	.309
1510	11.42	32.07	26.05	.310



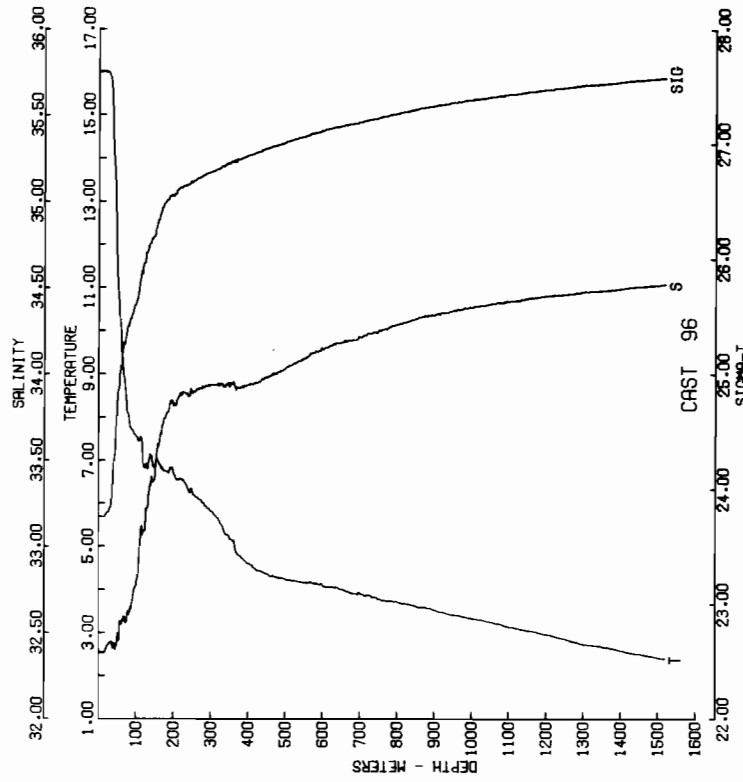
CAST HP-7-CC-094 DATE 16 SEP 73 TIME 0624 GMT
 LAT 47 29.5N LONG 128 01.2W WEATHER 1 SEA STATE 2
 BAROMETER 16 WIND DIR 028 T SPD 09 Kt VISIBILITY 6
 CLOUD X AMOUNT 9 CRY 15.9 MET 14.2 DEPTH 2667 M

DEPTH (M)	TEMPERATURE (C)	SALINITY (PPT)	SIGMA-T	DELTA-O (DYN M)
0	15.21	32.07	23.67	0.000
5	15.17	32.06	23.72	.021
10	15.02	32.06	23.77	.021
20	14.80	32.05	23.92	.002
25	14.61	32.05	24.05	.115
30	14.39	32.05	24.18	.132
35	14.12	32.05	24.30	.152
45	13.85	32.05	24.41	.171
50	13.63	32.05	24.51	.187
100	13.30	32.05	24.78	.217
150	12.90	32.05	25.03	.248
200	12.60	32.05	25.26	.279
300	12.20	32.05	25.56	.310
400	11.80	32.05	25.83	.341
500	11.40	32.05	26.08	.372
1000	10.80	32.05	26.39	.403
1500	10.20	32.05	26.70	.434
1510	10.15	32.05	26.75	.435



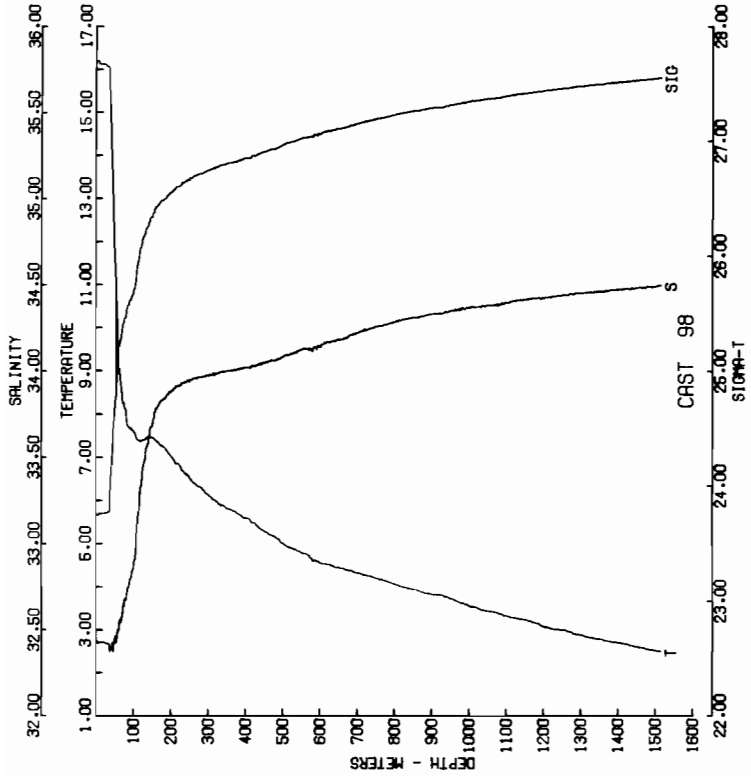
CAST 95-7-CC-095 DATE 16 SEP 73 TIME 0924 GMT
 LAT 47 29.8N LONG 128 35.2W WEATHER 1 SEA STATE 3
 BAROMETER 15.060 T SPD 11 KFT VISIBILITY 6
 CLOUD 2 AMOUNT 3 DRY 15.7 MET 2661 M DEPTH 2661 M

DEPTH (M)	TEMPERATURE (C)	SALINITY (PPT)	DELTA-D (DYN M)
0	16.01	33.71	0.000
5	16.01	33.71	.021
10	16.00	33.71	.062
15	15.98	33.74	.095
20	15.81	33.75	.125
25	15.63	33.76	.166
30	15.47	33.80	.207
35	15.30	33.84	.249
40	15.14	33.86	.291
45	15.00	33.87	.333
50	14.87	33.88	.375
55	14.75	33.89	.417
60	14.64	33.90	.459
65	14.54	33.91	.501
70	14.45	33.92	.543
75	14.37	33.93	.585
80	14.30	33.94	.627
85	14.24	33.94	.669
90	14.19	33.95	.711
95	14.15	33.95	.753
100	14.12	33.96	.795
105	14.10	33.96	.837
110	14.08	33.97	.879
115	14.07	33.97	.921
120	14.06	33.98	.963
125	14.06	33.98	1.005
1300	14.06	33.98	1.047

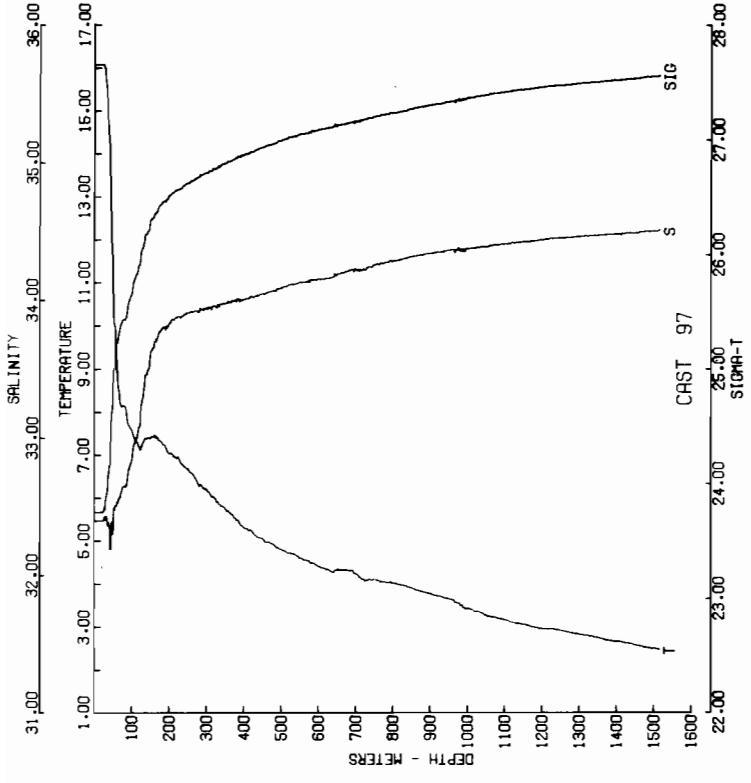


CAST 96-7-CC-096 DATE 16 SEP 73 TIME 1320 GMT
 LAT 47 30.9N LONG 128 13.3W WEATHER 1 SEA STATE 4
 BAROMETER 13.060 T SPD 10 KFT VISIBILITY 6
 CLOUD 3 AMOUNT 2 DRY 16.0 MET 2535 M DEPTH 2535 M

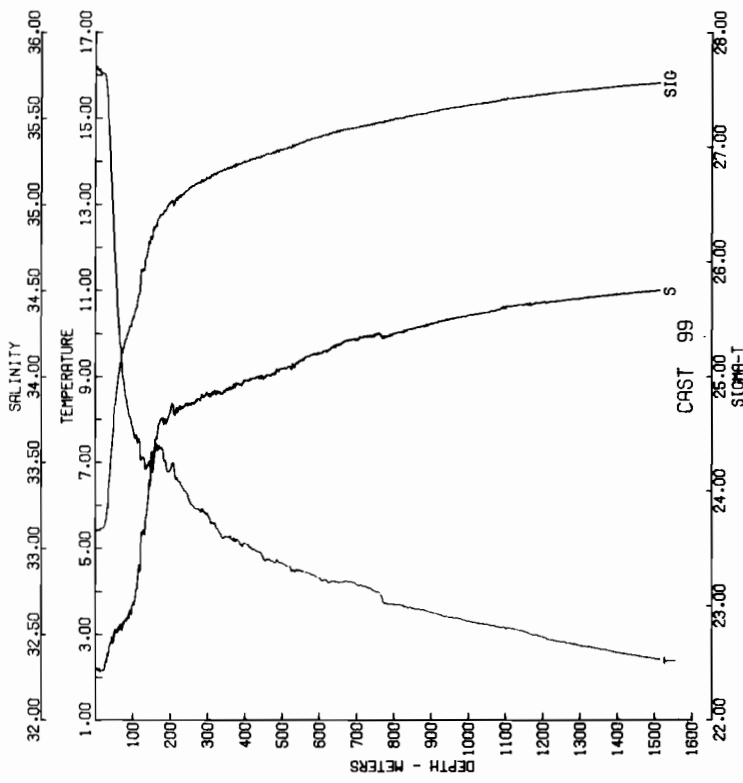
DEPTH (M)	TEMPERATURE (C)	SALINITY (PPT)	DELTA-D (DYN M)
0	16.02	33.79	0.000
5	16.02	33.79	.021
10	16.00	33.79	.062
15	15.98	33.80	.095
20	15.81	33.81	.125
25	15.63	33.82	.166
30	15.47	33.83	.207
35	15.30	33.84	.249
40	15.14	33.85	.291
45	15.00	33.86	.333
50	14.87	33.87	.375
55	14.75	33.88	.417
60	14.64	33.89	.459
65	14.54	33.90	.501
70	14.45	33.91	.543
75	14.37	33.92	.585
80	14.30	33.93	.627
85	14.24	33.94	.669
90	14.19	33.95	.711
95	14.15	33.95	.753
100	14.12	33.96	.795
105	14.10	33.96	.837
110	14.08	33.97	.879
115	14.07	33.97	.921
120	14.06	33.98	.963
125	14.06	33.98	1.005
1300	14.06	33.98	1.047



CAST RP-7-OC-98 DATE 16 SEP 73 TIME 1859 GMT
 LAT 46 45.34 N LONG 129 21.74 W WEATHER 1
 BAROMETER 12 WIND DIR 180 T SPD 7 K VISIBILITY 6
 CLOUD 3 AMOUNT 6 DRY 17.2 MET 14.8 DEPTH 2346 M

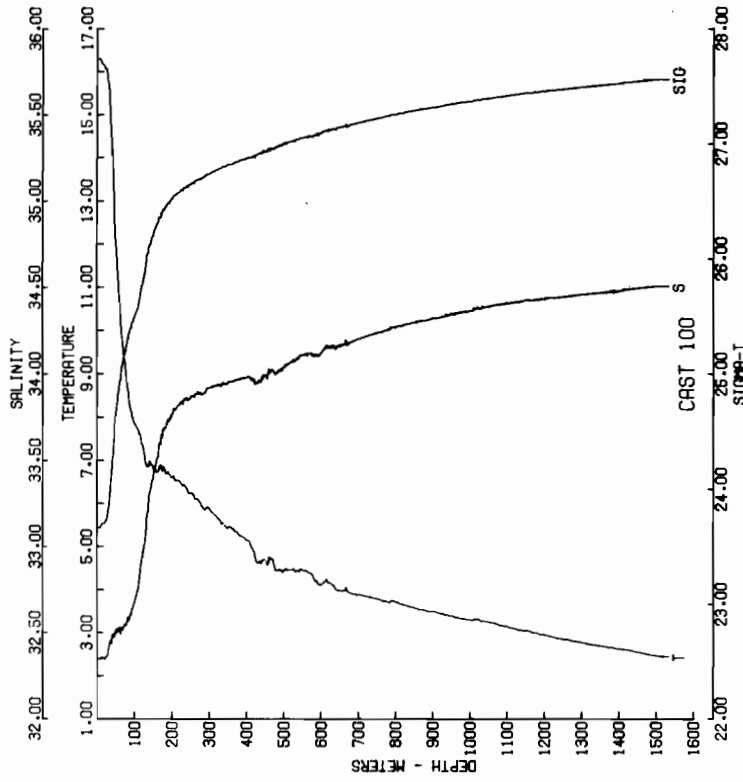


CAST RP-7-OC-97 DATE 16 SEP 73 TIME 1612 GMT
 LAT 47 07.94 N LONG 129 19.14 W WEATHER 3
 BAROMETER 13 WIND DIR 100 T SPD 0 K VISIBILITY 6
 CLOUD 3 AMOUNT 5 DRY 16.6 MET 14.9 DEPTH 2515 M



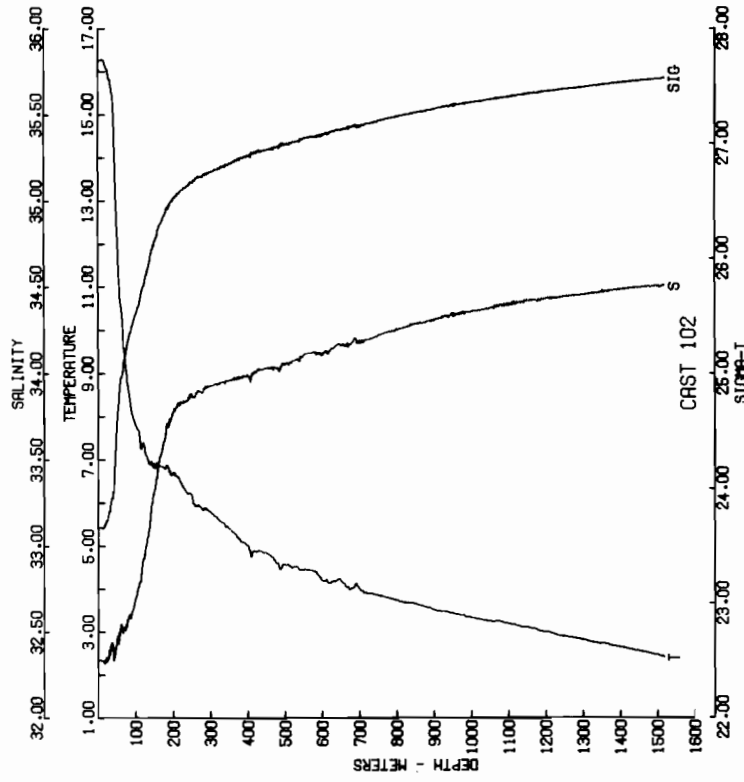
CAST RP-7-OC-999 DATE 16 SEP 73 TIME 2200 GMT
 LAT 46.5N LONG 120.43W WEAHER SEA STATE 3
 SURFACE WIND DIR 150 T SPD 15.3 DEPTH 2742 M
 CLOUD 6 AMOUNT 0 DRY 17.0 WET 15.0

DEPTH (M)	TEMPERATURE (C)	SALINITY (PPT)	SIGMA-T (DM)	DELTA-D (DM)
0	16.27	32.32	23.65	0.000
5	16.20	32.30	23.65	.042
10	16.14	32.29	23.67	.085
15	16.06	32.29	23.67	.129
20	16.00	32.29	23.68	.166
25	15.97	32.29	23.70	.201
30	15.93	32.29	23.72	.243
35	15.90	32.29	23.74	.284
40	15.87	32.29	23.76	.323
45	15.85	32.29	23.77	.361
50	15.83	32.29	23.78	.397
55	15.81	32.29	23.79	.433
60	15.79	32.29	23.80	.468
65	15.77	32.29	23.81	.502
70	15.75	32.29	23.82	.536
75	15.73	32.29	23.83	.569
80	15.71	32.29	23.84	.602
85	15.69	32.29	23.85	.635
90	15.67	32.29	23.86	.668
95	15.65	32.29	23.87	.700
100	15.63	32.29	23.88	.732
105	15.61	32.29	23.89	.764
110	15.59	32.29	23.90	.795
115	15.57	32.29	23.91	.826
120	15.55	32.29	23.92	.857
125	15.53	32.29	23.93	.887
130	15.51	32.29	23.94	.917
135	15.49	32.29	23.95	.947
140	15.47	32.29	23.96	.976
145	15.45	32.29	23.97	1.005
150	15.43	32.29	23.98	1.034
155	15.41	32.29	23.99	1.063
160	15.39	32.29	24.00	1.092



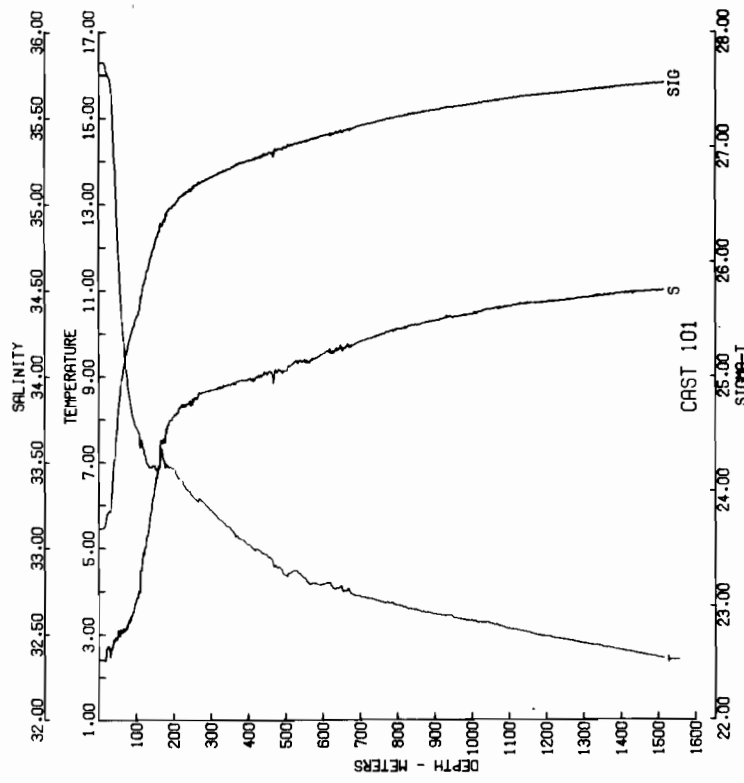
CAST RP-7-OC-100 DATE 16 SEP 73 TIME 2330 GMT
 LAT 46.5N LONG 120.40W WEAHER SEA STATE 3
 SURFACE WIND DIR 150 T SPD 15.3 DEPTH 2741 M
 CLOUD 6 AMOUNT 0 DRY 17.0 WET 15.0

DEPTH (M)	TEMPERATURE (C)	SALINITY (PPT)	SIGMA-T (DM)	DELTA-D (DM)
0	16.27	32.35	23.67	0.000
5	16.20	32.35	23.66	.042
10	16.14	32.34	23.67	.085
15	16.06	32.34	23.67	.129
20	16.00	32.34	23.68	.166
25	15.97	32.34	23.70	.201
30	15.93	32.34	23.72	.243
35	15.90	32.34	23.74	.284
40	15.87	32.34	23.76	.323
45	15.85	32.34	23.77	.361
50	15.83	32.34	23.78	.397
55	15.81	32.34	23.79	.433
60	15.79	32.34	23.80	.468
65	15.77	32.34	23.81	.502
70	15.75	32.34	23.82	.536
75	15.73	32.34	23.83	.569
80	15.71	32.34	23.84	.602
85	15.69	32.34	23.85	.635
90	15.67	32.34	23.86	.668
95	15.65	32.34	23.87	.700
100	15.63	32.34	23.88	.732
105	15.61	32.34	23.89	.764
110	15.59	32.34	23.90	.795
115	15.57	32.34	23.91	.826
120	15.55	32.34	23.92	.857
125	15.53	32.34	23.93	.887
130	15.51	32.34	23.94	.917
135	15.49	32.34	23.95	.947
140	15.47	32.34	23.96	.976
145	15.45	32.34	23.97	1.005
150	15.43	32.34	23.98	1.034
155	15.41	32.34	23.99	1.063
160	15.39	32.34	24.00	1.092



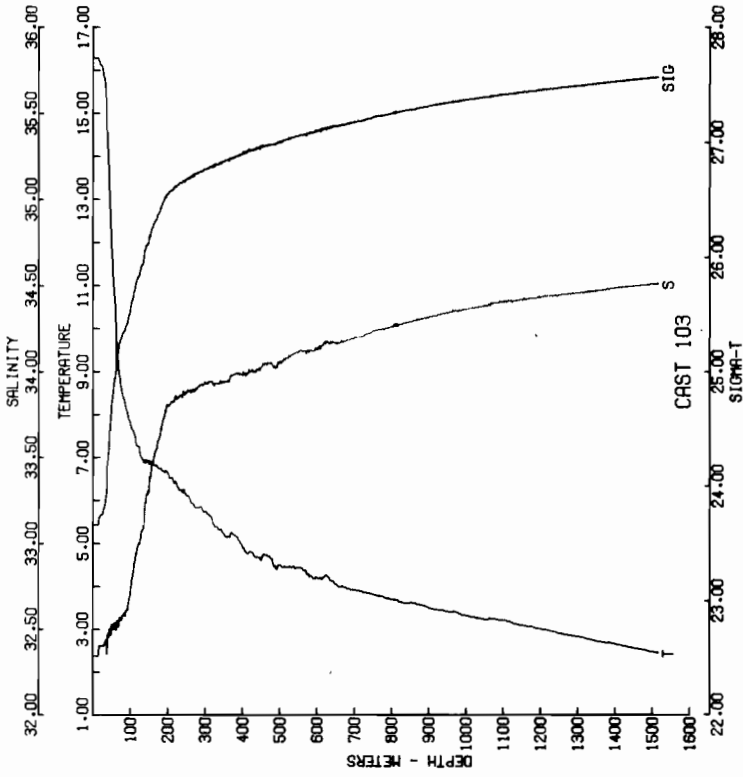
CAST RP-7-00-102 DATE 17 SEP 73 TIME 0230 GMT
 LAT 48.50N LONG 129.40W WEATHER 1
 CLOUD 6 AMOUNT 8 DR 15.2 DEPTH 2740 M
 CLOUD 6 AMOUNT 8 DR 15.2 DEPTH 2740 M

DEPTH (M)	TEMPERATURE (C)	SALINITY (PPT)	SIGMA-T (DTN H)	DELTA-D
0	16.27	32.34	23.66	0.000
2	16.27	32.34	23.66	0.000
10	16.27	32.34	23.66	0.000
15	16.27	32.34	23.66	0.000
20	16.27	32.34	23.66	0.000
25	16.27	32.34	23.66	0.000
30	16.27	32.34	23.66	0.000
40	16.27	32.34	23.66	0.000
50	16.27	32.34	23.66	0.000
75	16.27	32.34	23.66	0.000
100	16.27	32.34	23.66	0.000
150	16.27	32.34	23.66	0.000
200	16.27	32.34	23.66	0.000
300	16.27	32.34	23.66	0.000
400	16.27	32.34	23.66	0.000
500	16.27	32.34	23.66	0.000
600	16.27	32.34	23.66	0.000
700	16.27	32.34	23.66	0.000
800	16.27	32.34	23.66	0.000
900	16.27	32.34	23.66	0.000
1000	16.27	32.34	23.66	0.000
1100	16.27	32.34	23.66	0.000
1200	16.27	32.34	23.66	0.000
1300	16.27	32.34	23.66	0.000
1400	16.27	32.34	23.66	0.000
1500	16.27	32.34	23.66	0.000
1600	16.27	32.34	23.66	0.000
1700	16.27	32.34	23.66	0.000
1800	16.27	32.34	23.66	0.000
1900	16.27	32.34	23.66	0.000
2000	16.27	32.34	23.66	0.000
2100	16.27	32.34	23.66	0.000
2200	16.27	32.34	23.66	0.000
2300	16.27	32.34	23.66	0.000
2400	16.27	32.34	23.66	0.000
2500	16.27	32.34	23.66	0.000
2600	16.27	32.34	23.66	0.000
2700	16.27	32.34	23.66	0.000
2800	16.27	32.34	23.66	0.000
2900	16.27	32.34	23.66	0.000
3000	16.27	32.34	23.66	0.000



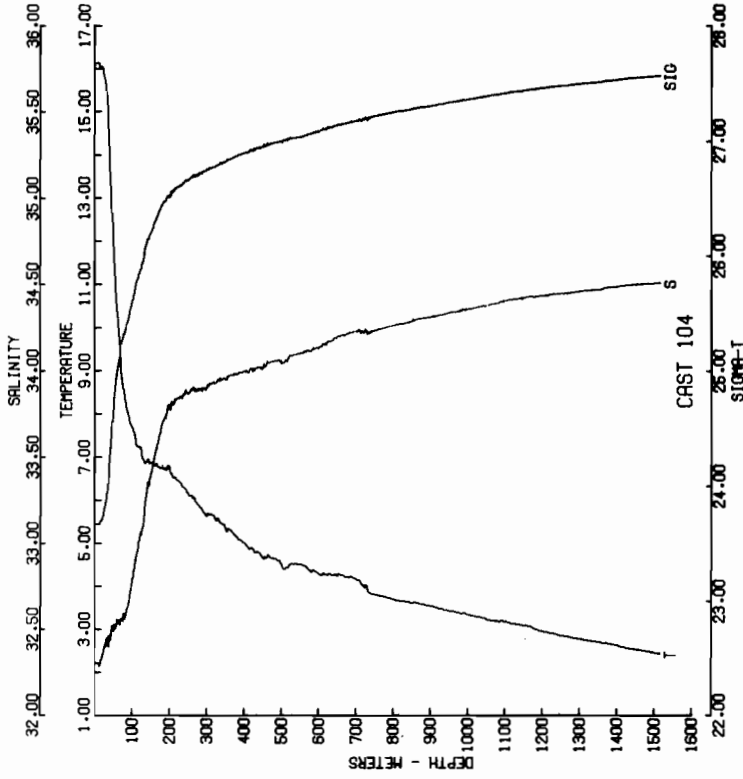
CAST RP-7-00-101 DATE 17 SEP 73 TIME 0100 GMT
 LAT 48.50N LONG 129.40W WEATHER 1
 CLOUD 6 AMOUNT 8 DR 15.3 DEPTH 2550 M
 CLOUD 6 AMOUNT 8 DR 15.3 DEPTH 2550 M

DEPTH (M)	TEMPERATURE (C)	SALINITY (PPT)	SIGMA-T (DTN H)	DELTA-D
0	16.30	32.35	23.67	0.000
2	16.30	32.35	23.67	0.000
10	16.30	32.35	23.67	0.000
15	16.30	32.35	23.67	0.000
20	16.30	32.35	23.67	0.000
25	16.30	32.35	23.67	0.000
30	16.30	32.35	23.67	0.000
40	16.30	32.35	23.67	0.000
50	16.30	32.35	23.67	0.000
75	16.30	32.35	23.67	0.000
100	16.30	32.35	23.67	0.000
150	16.30	32.35	23.67	0.000
200	16.30	32.35	23.67	0.000
300	16.30	32.35	23.67	0.000
400	16.30	32.35	23.67	0.000
500	16.30	32.35	23.67	0.000
600	16.30	32.35	23.67	0.000
700	16.30	32.35	23.67	0.000
800	16.30	32.35	23.67	0.000
900	16.30	32.35	23.67	0.000
1000	16.30	32.35	23.67	0.000
1100	16.30	32.35	23.67	0.000
1200	16.30	32.35	23.67	0.000
1300	16.30	32.35	23.67	0.000
1400	16.30	32.35	23.67	0.000
1500	16.30	32.35	23.67	0.000
1600	16.30	32.35	23.67	0.000
1700	16.30	32.35	23.67	0.000
1800	16.30	32.35	23.67	0.000
1900	16.30	32.35	23.67	0.000
2000	16.30	32.35	23.67	0.000
2100	16.30	32.35	23.67	0.000
2200	16.30	32.35	23.67	0.000
2300	16.30	32.35	23.67	0.000
2400	16.30	32.35	23.67	0.000
2500	16.30	32.35	23.67	0.000
2600	16.30	32.35	23.67	0.000
2700	16.30	32.35	23.67	0.000
2800	16.30	32.35	23.67	0.000
2900	16.30	32.35	23.67	0.000
3000	16.30	32.35	23.67	0.000



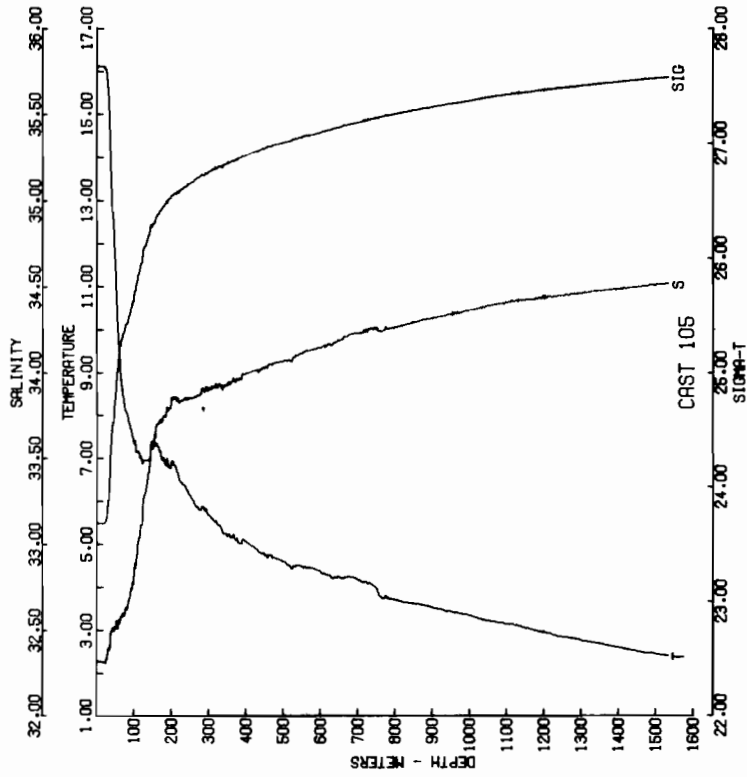
CAST RP-7-CC-103 DATE 17 SEP 73 TIME 0400 GMT
 LAT 46.44.5N LONG 128.49.0W WEATHER 1 SEA STATE 3
 BAROMETER 12 WIND DIR 149 T SPD 16 K T VISIBILITY 5
 CLOUD X AMOUNT 9 DRY 16.5 WET 15.2 DEPTH 2740 M

DEPTH (M)	TEMPERATURE (C)	SALINITY (PPT)	SIGMA-T	DELTA-D (DYN M)
0	16.30	32.34	23.66	0.000
5	16.23	32.44	23.66	.021
10	16.16	32.54	23.66	.042
15	16.09	32.64	23.66	.063
20	16.02	32.74	23.66	.085
25	15.95	32.84	23.66	.106
30	15.88	32.94	23.66	.128
35	15.81	33.04	23.66	.150
40	15.74	33.14	23.66	.172
45	15.67	33.24	23.66	.194
50	15.60	33.34	23.66	.216
55	15.53	33.44	23.66	.238
60	15.46	33.54	23.66	.260
65	15.39	33.64	23.66	.282
70	15.32	33.74	23.66	.304
75	15.25	33.84	23.66	.326
80	15.18	33.94	23.66	.348
85	15.11	34.04	23.66	.370
90	15.04	34.14	23.66	.392
95	14.97	34.24	23.66	.414
100	14.90	34.34	23.66	.436
105	14.83	34.44	23.66	.458
110	14.76	34.54	23.66	.480
115	14.69	34.64	23.66	.502
120	14.62	34.74	23.66	.524
125	14.55	34.84	23.66	.546
130	14.48	34.94	23.66	.568
135	14.41	35.04	23.66	.590
140	14.34	35.14	23.66	.612
145	14.27	35.24	23.66	.634
150	14.20	35.34	23.66	.656
155	14.13	35.44	23.66	.678
160	14.06	35.54	23.66	.700
165	13.99	35.64	23.66	.722
170	13.92	35.74	23.66	.744
175	13.85	35.84	23.66	.766
180	13.78	35.94	23.66	.788
185	13.71	36.04	23.66	.810



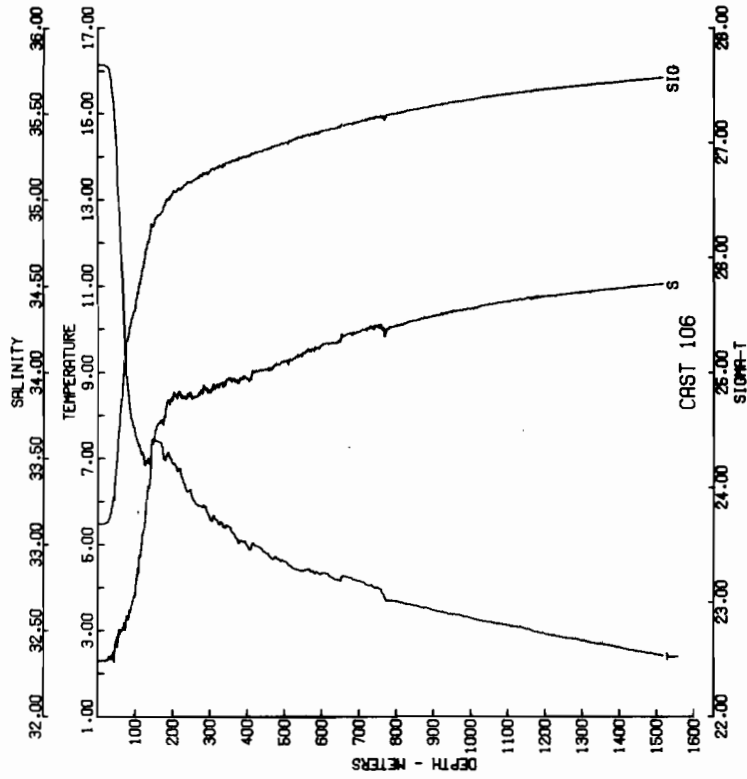
CAST RP-7-CC-104 DATE 17 SEP 73 TIME 0510 GMT
 LAT 46.44.5N LONG 128.49.0W WEATHER 1 SEA STATE 3
 BAROMETER 12 WIND DIR 155 T SPD 15 K T VISIBILITY 5
 CLOUD X AMOUNT 9 DRY 16.2 WET 15.1 DEPTH 2741 M

DEPTH (M)	TEMPERATURE (C)	SALINITY (PPT)	SIGMA-T	DELTA-D (DYN M)
0	16.14	32.30	23.67	0.000
5	16.14	32.40	23.67	.021
10	16.14	32.50	23.67	.042
15	16.07	32.60	23.67	.063
20	16.00	32.70	23.67	.085
25	15.93	32.80	23.67	.106
30	15.86	32.90	23.67	.128
35	15.79	33.00	23.67	.150
40	15.72	33.10	23.67	.172
45	15.65	33.20	23.67	.194
50	15.58	33.30	23.67	.216
55	15.51	33.40	23.67	.238
60	15.44	33.50	23.67	.260
65	15.37	33.60	23.67	.282
70	15.30	33.70	23.67	.304
75	15.23	33.80	23.67	.326
80	15.16	33.90	23.67	.348
85	15.09	34.00	23.67	.370
90	15.02	34.10	23.67	.392
95	14.95	34.20	23.67	.414
100	14.88	34.30	23.67	.436
105	14.81	34.40	23.67	.458
110	14.74	34.50	23.67	.480
115	14.67	34.60	23.67	.502
120	14.60	34.70	23.67	.524
125	14.53	34.80	23.67	.546
130	14.46	34.90	23.67	.568
135	14.39	35.00	23.67	.590
140	14.32	35.10	23.67	.612
145	14.25	35.20	23.67	.634
150	14.18	35.30	23.67	.656
155	14.11	35.40	23.67	.678
160	14.04	35.50	23.67	.700
165	13.97	35.60	23.67	.722
170	13.90	35.70	23.67	.744
175	13.83	35.80	23.67	.766
180	13.76	35.90	23.67	.788
185	13.69	36.00	23.67	.810



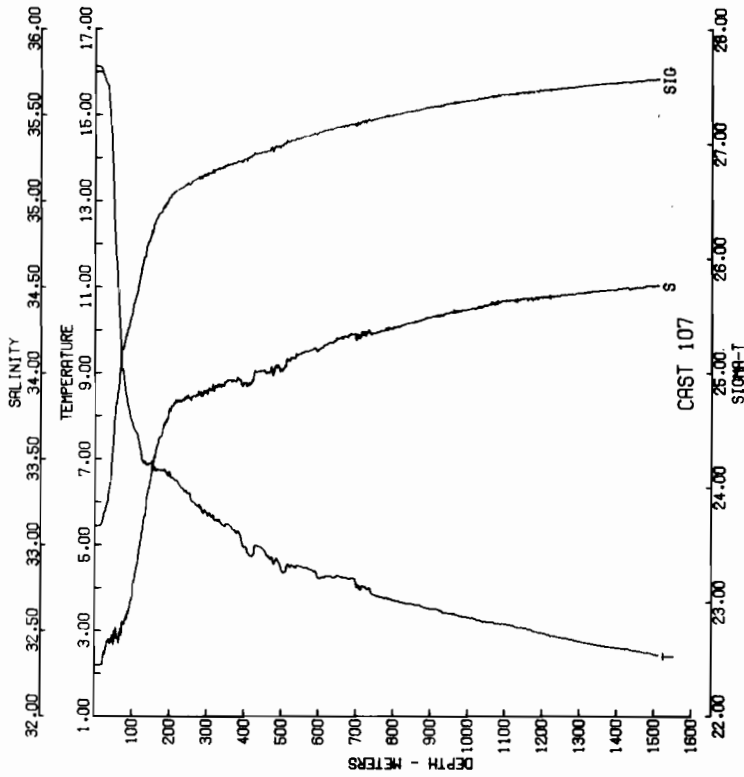
CAST RP-7-OC-105 DATE 17 SEP 73 TIME 0700 GMT
 LAT 46 44.0N LONG 128 43.5W WEATHER 4 SEA STATE 4
 BAROMETER 10 WIND DIR 140 T SPD 20 K VISIBILITY 6
 CLOUD 3 AMOUNT 5 DRY 16.5 WET 15.3 DEPTH 2741 M

DEPTH (M)	TEMPERATURE (C)	SALINITY (PPT)	SIGMA-T (DYN M)	DELTA-D
0	16.11	32.33	23.69	0.000
5	16.13	32.32	23.66	.021
10	16.12	32.32	23.66	.042
15	16.11	32.32	23.66	.063
20	16.05	32.31	23.68	.086
25	16.01	32.31	23.70	.109
30	16.01	32.31	23.72	.126
35	16.01	32.31	23.74	.145
40	16.01	32.31	23.76	.165
45	16.01	32.31	23.79	.188
50	16.01	32.31	23.82	.214
75	16.01	32.31	23.97	.391
100	16.01	32.31	24.11	.571
150	16.01	32.31	24.22	.756
200	16.01	32.31	24.36	.952
300	16.01	32.31	24.55	1.158
400	16.01	32.31	24.69	1.374
500	16.01	32.31	24.77	1.599
750	16.01	32.31	24.89	1.844
1000	16.01	32.31	24.94	2.099
1500	16.01	32.31	25.00	2.354
1600	16.01	32.31	25.00	2.440



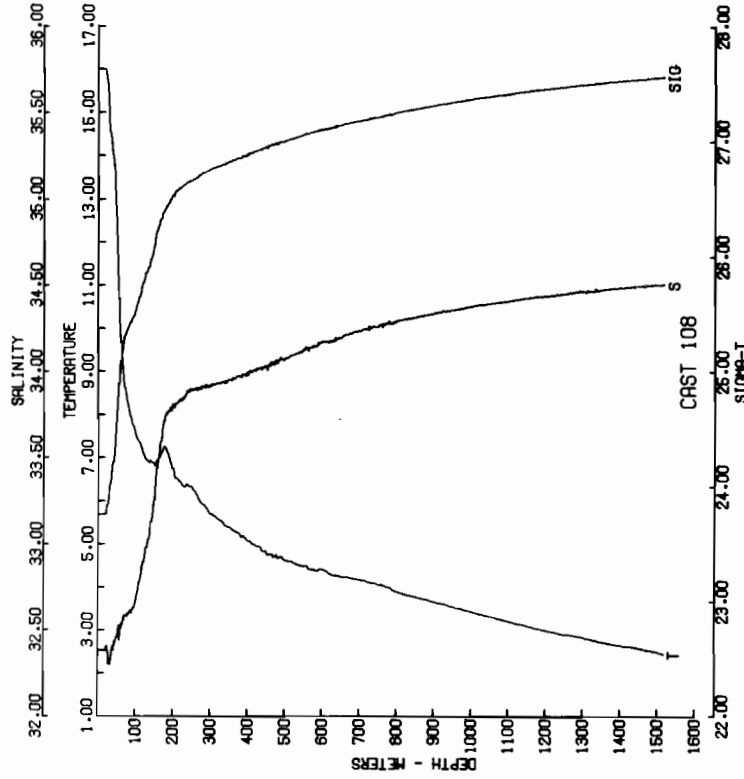
CAST RP-7-OC-106 DATE 17 SEP 73 TIME 0830 GMT
 LAT 46 44.0N LONG 128 43.5W WEATHER 4 SEA STATE 4
 BAROMETER 10 WIND DIR 140 T SPD 15 K VISIBILITY 6
 CLOUD 3 AMOUNT 5 DRY 16.1 WET 15.2 DEPTH 2742 M

DEPTH (M)	TEMPERATURE (C)	SALINITY (PPT)	SIGMA-T (DYN M)	DELTA-D
0	16.17	32.33	23.68	0.000
5	16.15	32.32	23.66	.021
10	16.15	32.32	23.66	.042
15	16.14	32.32	23.66	.063
20	16.11	32.32	23.69	.086
25	16.05	32.32	23.72	.109
30	16.01	32.32	23.76	.126
35	16.01	32.32	23.79	.145
40	16.01	32.32	23.82	.165
45	16.01	32.32	23.85	.188
50	16.01	32.32	23.88	.214
75	16.01	32.32	24.03	.391
100	16.01	32.32	24.17	.571
150	16.01	32.32	24.28	.756
200	16.01	32.32	24.42	.952
300	16.01	32.32	24.61	1.158
400	16.01	32.32	24.75	1.374
500	16.01	32.32	24.83	1.599
750	16.01	32.32	24.95	1.844
1000	16.01	32.32	25.00	2.099
1500	16.01	32.32	25.00	2.354
1600	16.01	32.32	25.00	2.440



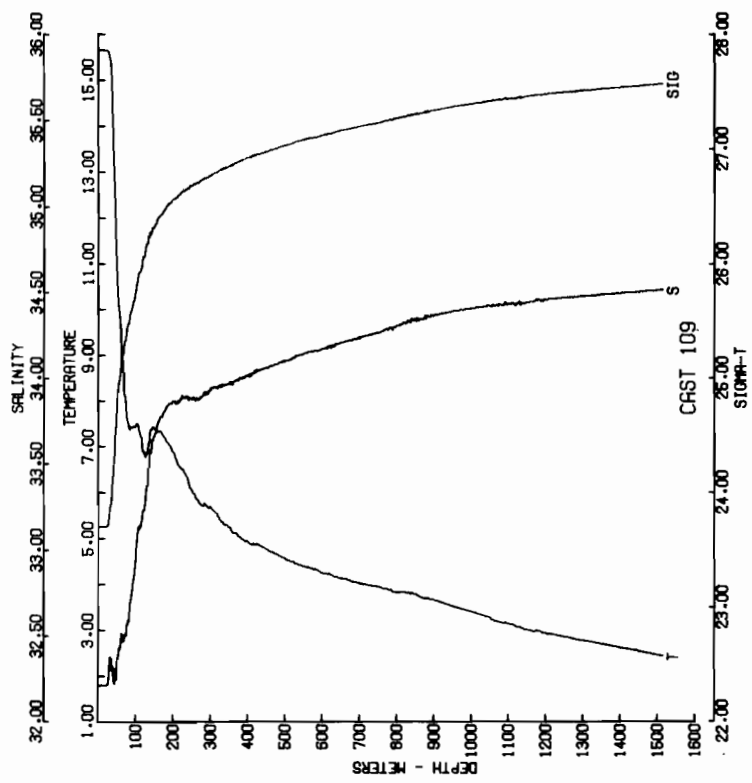
CAST NP-7-0C-107 DATE 17 SEP 73 TIME 1000 GMT
 LAT 46.454N LONG 128.411W WEATHER SEA STATE 3
 BAROMETER 10 WIND DIR 180 T SPD 15 KT VISIBILITY 5
 CLOUD X AMOUNT 9 DRY 16.0 WET 15.6 DEPTH 2742 M

DEPTH (M)	TEMPERATURE (C)	SALINITY (PPT)	DELTA-S
0	16.01	32.33	0.000
5	16.01	32.33	.021
10	16.01	32.33	.067
15	16.01	32.33	.085
20	16.01	32.33	.085
25	15.77	32.33	.129
30	15.68	32.33	.166
35	15.68	32.33	.186
40	15.68	32.33	.204
45	15.68	32.33	.224
50	15.68	32.33	.244
100	15.50	32.33	.327
150	15.39	32.33	.455
200	15.30	32.33	.538
250	15.22	32.33	.602
300	15.18	32.33	.657
350	15.11	32.33	.702
400	15.07	32.33	.739
450	15.03	32.33	.776
500	15.00	32.33	.811
1000	14.79	32.33	1.183
1500	14.44	32.33	1.576



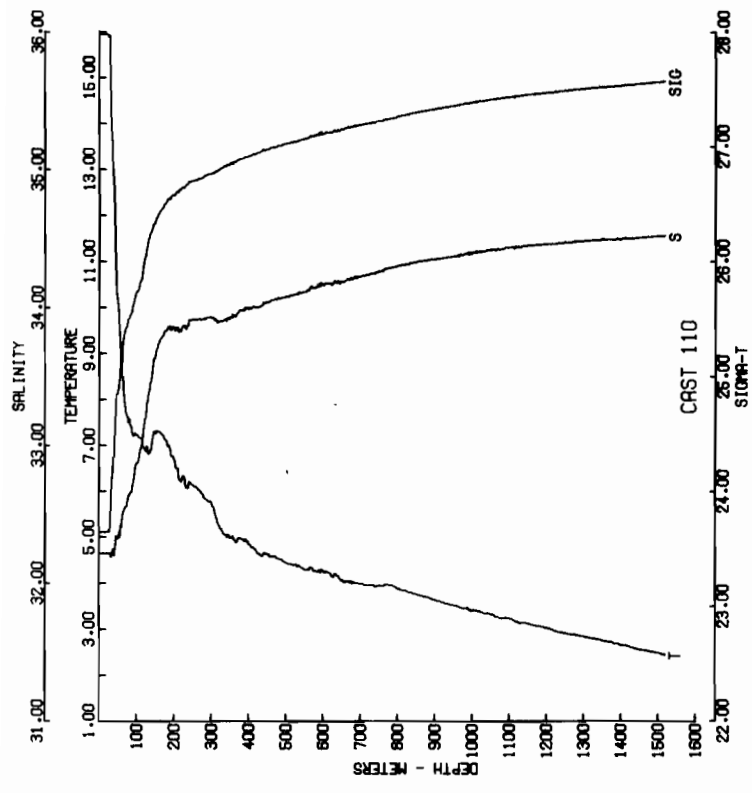
CAST NP-7-0C-108 DATE 17 SEP 73 TIME 1305 GMT
 LAT 46.449N LONG 128.017W WEATHER SEA STATE 3
 BAROMETER 10 WIND DIR 175 T SPD 15 KT VISIBILITY 5
 CLOUD X AMOUNT 9 DRY 16.0 WET 16.0 DEPTH 2724 M

DEPTH (M)	TEMPERATURE (C)	SALINITY (PPT)	DELTA-S
0	16.01	32.33	0.000
5	16.01	32.33	.021
10	16.01	32.33	.067
15	16.01	32.33	.085
20	16.01	32.33	.085
25	15.77	32.33	.129
30	15.68	32.33	.166
35	15.68	32.33	.186
40	15.68	32.33	.204
45	15.68	32.33	.224
50	15.68	32.33	.244
100	15.50	32.33	.327
150	15.39	32.33	.455
200	15.30	32.33	.538
250	15.22	32.33	.602
300	15.18	32.33	.657
350	15.11	32.33	.702
400	15.07	32.33	.739
450	15.03	32.33	.776
500	15.00	32.33	.811
1000	14.79	32.33	1.183
1500	14.44	32.33	1.576



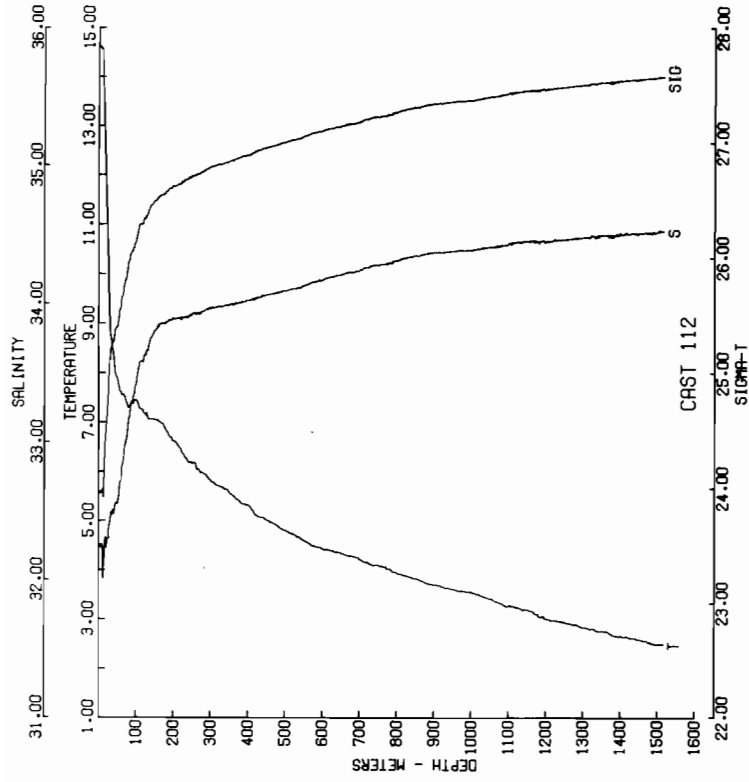
CAST RP-7-OC-109 DATE 17 SEP 73 TIME 1625 GMT
 LAT 46 55.0N LONG 127 19.0W WEATHER 6 SEA STATE 3
 BAROMETER 1010.0 HGT 18.0 MET 18.9 DEPTH 2081 M
 CLOUD 6 AMOUNT 8 DRY 16.1 WET 15.9

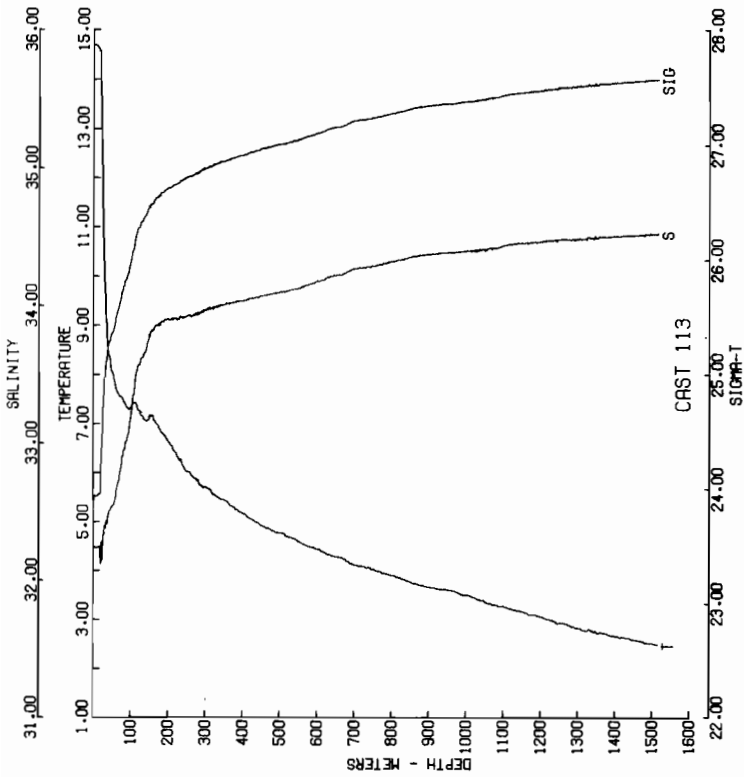
DEPTH (M)	TEMPERATURE (C)	SALINITY (PPT)	SIGMA-T (DTN M)	DELTA-T
0	15.66	32.21	23.70	0.000
1	15.66	32.21	23.70	.021
2	15.67	32.21	23.70	.003
3	15.66	32.21	23.70	.005
4	15.66	32.21	23.70	.166
5	15.65	32.21	23.70	.166
6	15.66	32.21	23.70	.166
7	15.66	32.21	23.70	.166
8	15.66	32.21	23.70	.166
9	15.66	32.21	23.70	.166
10	15.66	32.21	23.70	.166
15	15.66	32.21	23.70	.166
20	15.66	32.21	23.70	.166
25	15.66	32.21	23.70	.166
30	15.66	32.21	23.70	.166
35	15.66	32.21	23.70	.166
40	15.66	32.21	23.70	.166
45	15.66	32.21	23.70	.166
50	15.66	32.21	23.70	.166
55	15.66	32.21	23.70	.166
60	15.66	32.21	23.70	.166
65	15.66	32.21	23.70	.166
70	15.66	32.21	23.70	.166
75	15.66	32.21	23.70	.166
80	15.66	32.21	23.70	.166
85	15.66	32.21	23.70	.166
90	15.66	32.21	23.70	.166
95	15.66	32.21	23.70	.166
100	15.66	32.21	23.70	.166
105	15.66	32.21	23.70	.166
110	15.66	32.21	23.70	.166
115	15.66	32.21	23.70	.166
120	15.66	32.21	23.70	.166
125	15.66	32.21	23.70	.166
130	15.66	32.21	23.70	.166
135	15.66	32.21	23.70	.166
140	15.66	32.21	23.70	.166
145	15.66	32.21	23.70	.166
150	15.66	32.21	23.70	.166
155	15.66	32.21	23.70	.166
160	15.66	32.21	23.70	.166



CAST RP-7-OC-110 DATE 17 SEP 73 TIME 1919 GMT
 LAT 46 55.0N LONG 126 41.4W WEATHER 6 SEA STATE 4
 BAROMETER 1010.0 HGT 18.0 MET 18.9 DEPTH 2081 M
 CLOUD 6 AMOUNT 8 DRY 16.2 WET 15.5

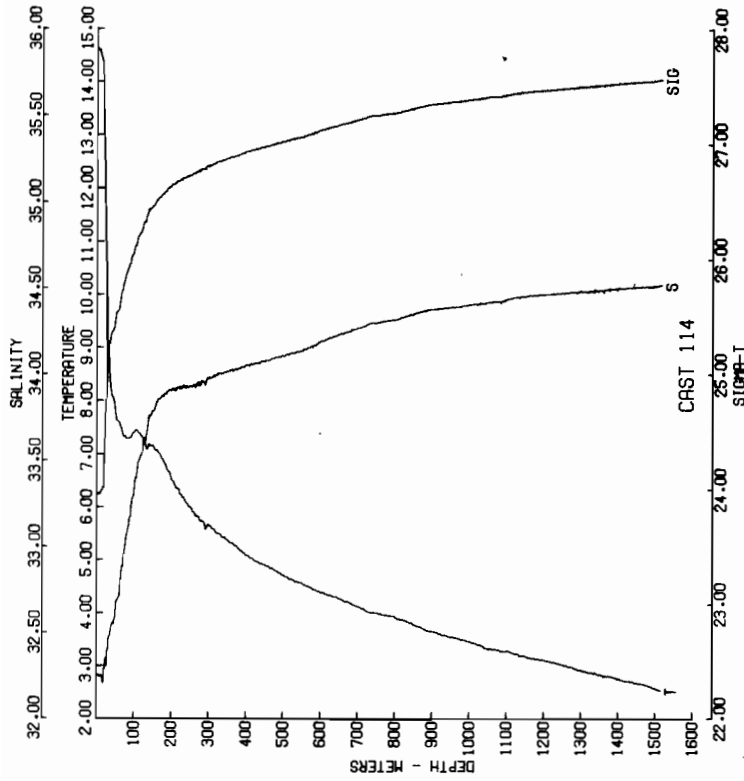
DEPTH (M)	TEMPERATURE (C)	SALINITY (PPT)	SIGMA-T (DTN M)	DELTA-T
0	15.95	32.21	23.64	0.000
1	15.95	32.21	23.64	.021
2	15.95	32.21	23.64	.003
3	15.95	32.21	23.64	.005
4	15.94	32.21	23.64	.166
5	15.94	32.21	23.64	.166
6	15.94	32.21	23.64	.166
7	15.94	32.21	23.64	.166
8	15.94	32.21	23.64	.166
9	15.94	32.21	23.64	.166
10	15.94	32.21	23.64	.166
15	15.94	32.21	23.64	.166
20	15.94	32.21	23.64	.166
25	15.94	32.21	23.64	.166
30	15.94	32.21	23.64	.166
35	15.94	32.21	23.64	.166
40	15.94	32.21	23.64	.166
45	15.94	32.21	23.64	.166
50	15.94	32.21	23.64	.166
55	15.94	32.21	23.64	.166
60	15.94	32.21	23.64	.166
65	15.94	32.21	23.64	.166
70	15.94	32.21	23.64	.166
75	15.94	32.21	23.64	.166
80	15.94	32.21	23.64	.166
85	15.94	32.21	23.64	.166
90	15.94	32.21	23.64	.166
95	15.94	32.21	23.64	.166
100	15.94	32.21	23.64	.166
105	15.94	32.21	23.64	.166
110	15.94	32.21	23.64	.166
115	15.94	32.21	23.64	.166
120	15.94	32.21	23.64	.166
125	15.94	32.21	23.64	.166
130	15.94	32.21	23.64	.166
135	15.94	32.21	23.64	.166
140	15.94	32.21	23.64	.166
145	15.94	32.21	23.64	.166
150	15.94	32.21	23.64	.166
155	15.94	32.21	23.64	.166
160	15.94	32.21	23.64	.166





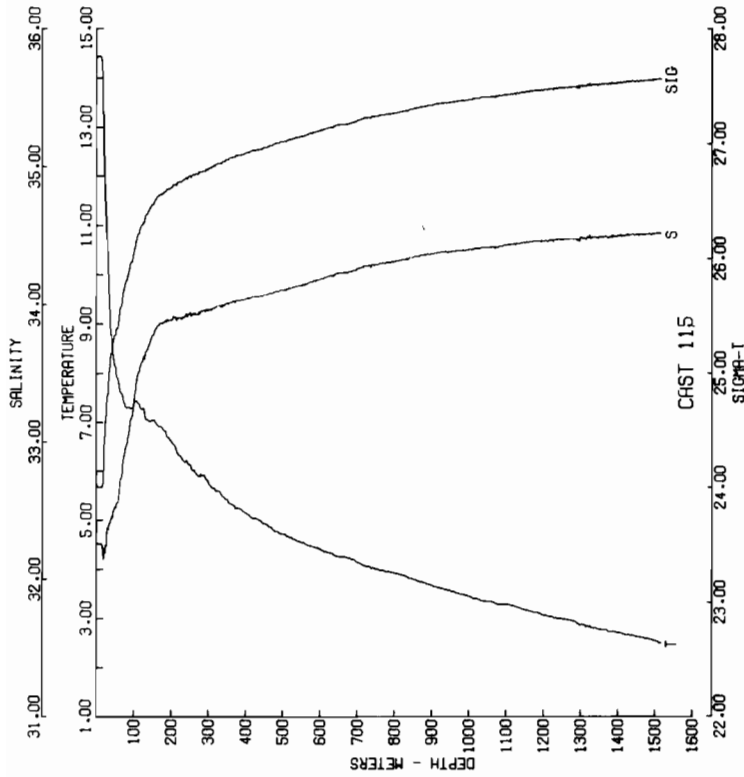
CAST 3P-7-CC-113 DATE 18 SEP 73 TIME 0200 GMT
 LAT 46 55.0M LONG 129 00.0M WEATHER 1 SEA STATE 3
 BAROMETER 13 WIND DIR 199 T SPD 12 KT VISIBILITY 7
 CLOUD 6 AMOUNT 5 DRY 16.0 WET 14.6 DEPTH 2593 M

DEPTH (M)	TEMPERATURE (C)	SALINITY (PPT)	DELTA-D (DYN M)
0	14.68	32.20	0.000
10	14.69	32.20	0.020
20	14.68	32.20	0.040
30	14.67	32.20	0.060
40	14.66	32.20	0.080
50	14.65	32.20	0.093
75	14.63	32.20	0.114
100	14.61	32.20	0.127
150	14.57	32.20	0.150
200	14.52	32.20	0.170
300	14.40	32.20	0.217
400	14.27	32.20	0.257
500	14.14	32.20	0.290
750	13.77	32.20	0.372
1000	13.40	32.20	0.437
1500	12.50	32.20	0.552
1600	12.23	32.20	0.590

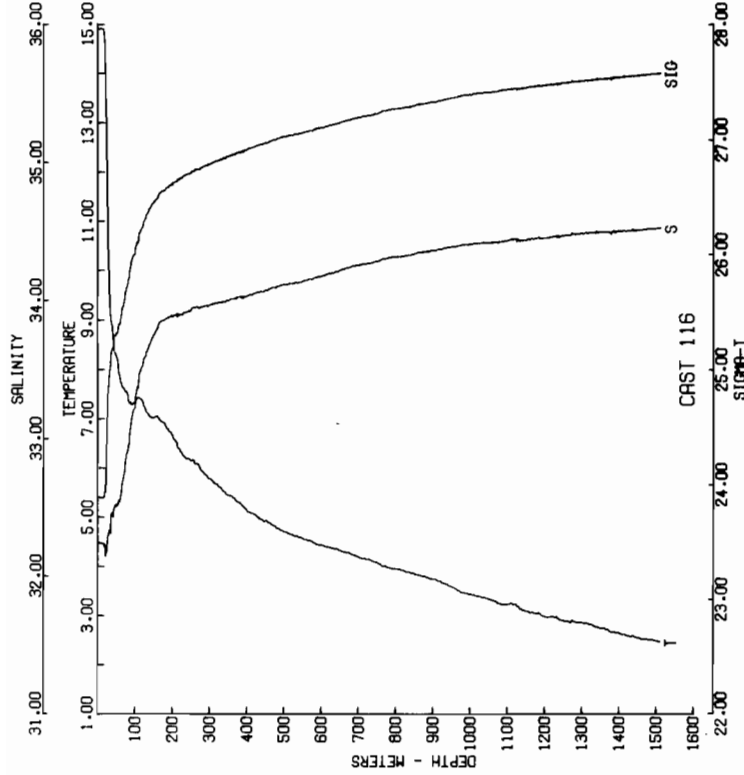


CAST 3P-7-CC-114 DATE 18 SEP 73 TIME 0310 GMT
 LAT 46 54.0M LONG 125 55.0M WEATHER 1 SEA STATE 3
 BAROMETER 13 WIND DIR 216 T SPD 11 KT VISIBILITY 6
 CLOUD X AMOUNT 9 DRY 15.9 WET 16.1 DEPTH 2569 M

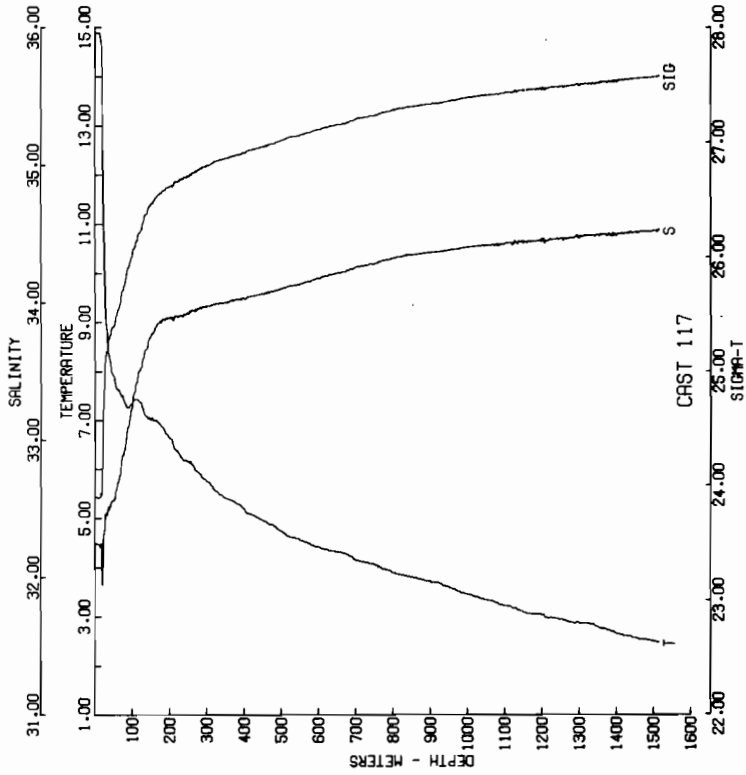
DEPTH (M)	TEMPERATURE (C)	SALINITY (PPT)	DELTA-D (DYN M)
0	14.92	32.25	0.000
10	14.61	32.25	0.096
20	14.55	32.25	0.099
30	14.52	32.25	0.099
40	14.49	32.25	0.096
50	14.45	32.25	0.096
75	14.35	32.25	0.111
100	14.24	32.25	0.122
150	14.02	32.25	0.152
200	13.77	32.25	0.182
300	13.40	32.25	0.247
400	13.15	32.25	0.277
500	12.90	32.25	0.307
750	12.41	32.25	0.372
1000	11.90	32.25	0.437
1500	11.00	32.25	0.552
1600	10.70	32.25	0.590



CAST 115 DATE 18 SEP 73 TIME 0501 GMT
 LAT 49.44.54 N LONG 126.06.34 W WEATHER 1 SEA STATE 3
 BAROMETER 14 WIND DIR 155 T SPD 10 KT VISIBILITY 6
 CLOUD X AMOUNT 9 DRY 15.2 WET 14.0 DEPTH 2591 M

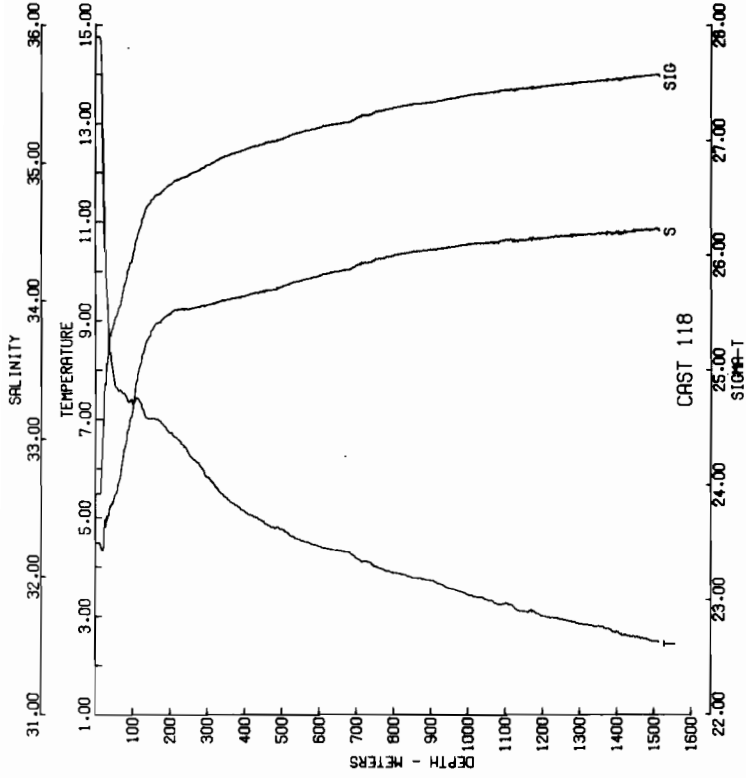


CAST 116 DATE 18 SEP 73 TIME 0631 GMT
 LAT 49.43.21 N LONG 126.00.00 W WEATHER 1 SEA STATE 3
 BAROMETER 15 WIND DIR 216 T SPD 10 KT VISIBILITY 6
 CLOUD X AMOUNT 9 DRY 15.9 WET 14.2 DEPTH 2583 M



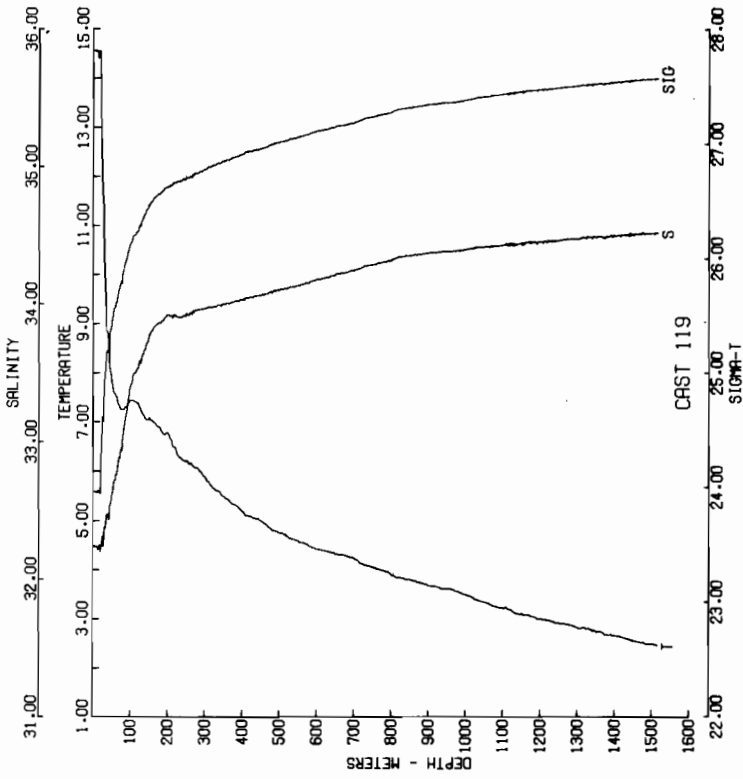
CAST RP-7-CU-117, DATE 18 SEP 72, TIME 0800 GMT
 SURFACE WIND 12.0 KT, SURFACE WAVE 1.0 M, VISIBILITY 5
 SURFACE WIND 12.0 KT, SURFACE WAVE 1.0 M, VISIBILITY 6
 CLOUD X AMOUNT 9 DRY 15.5 WET 13.9 DEPTH 2503 M

DEPTH (M)	TEMPERATURE (C)	SALINITY (PPT)	SIGMA-T (DYN M)	DELTA-D
1	14.88	35.52	23.90	0.000
5	14.89	35.54	23.89	.020
10	14.89	35.54	23.89	.000
15	14.89	35.54	23.89	.000
20	14.89	35.54	23.89	.000
25	14.89	35.54	23.89	.000
30	14.89	35.54	23.89	.000
35	14.89	35.54	23.89	.000
40	14.89	35.54	23.89	.000
45	14.89	35.54	23.89	.000
50	14.89	35.54	23.89	.000
75	14.89	35.54	23.89	.000
100	14.89	35.54	23.89	.000
200	14.89	35.54	23.89	.000
300	14.89	35.54	23.89	.000
400	14.89	35.54	23.89	.000
500	14.89	35.54	23.89	.000
1000	14.89	35.54	23.89	.000
1500	14.89	35.54	23.89	.000
1514	14.89	35.54	23.89	.000

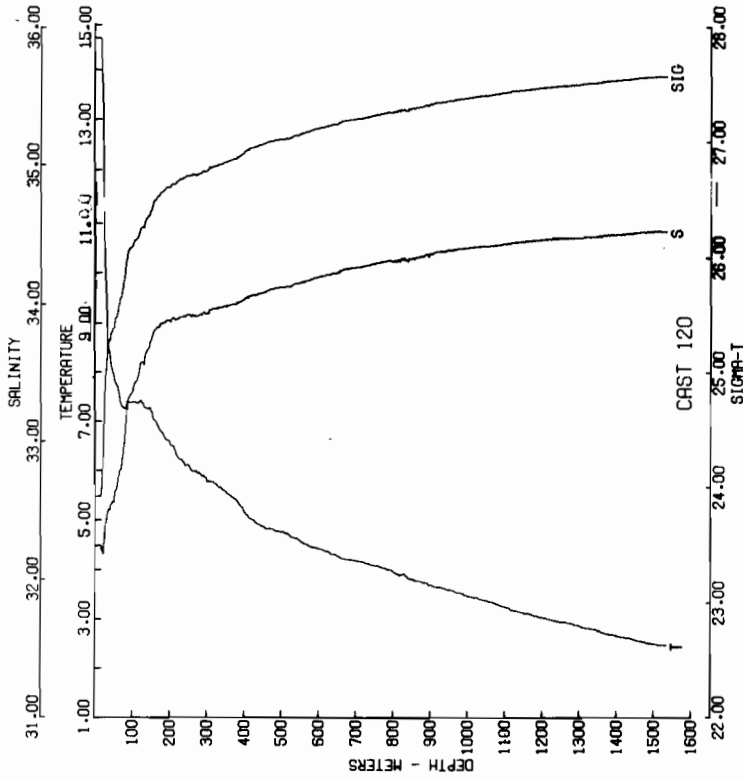


CAST RP-7-CU-118, DATE 18 SEP 72, TIME 0930 GMT
 SURFACE WIND 12.0 KT, SURFACE WAVE 1.0 M, VISIBILITY 5
 SURFACE WIND 12.0 KT, SURFACE WAVE 1.0 M, VISIBILITY 5
 CLOUD X AMOUNT 9 DRY 15.7 WET 13.8 DEPTH 2503 M

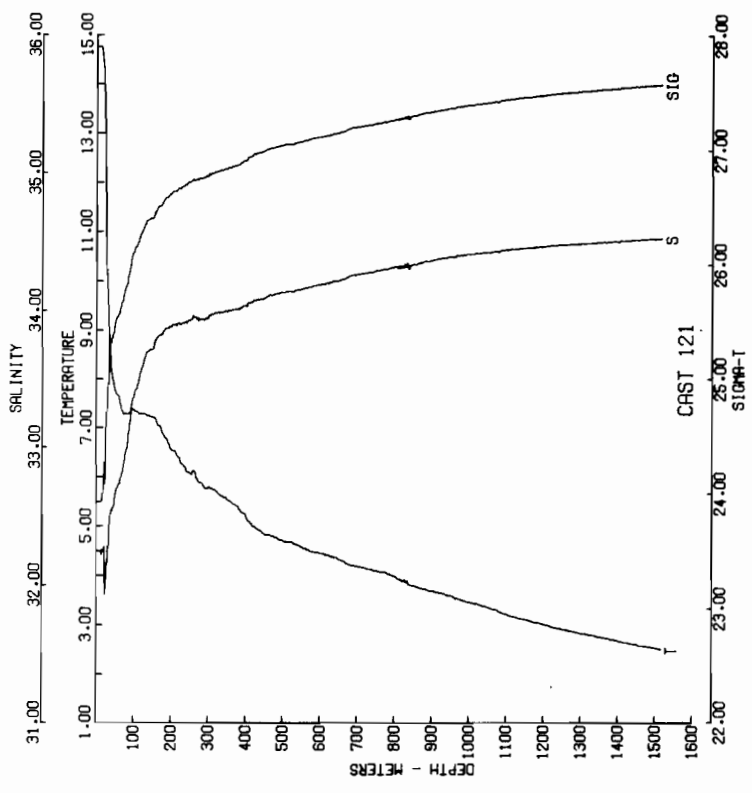
DEPTH (M)	TEMPERATURE (C)	SALINITY (PPT)	SIGMA-T (DYN M)	DELTA-D
1	14.79	35.21	23.90	0.000
5	14.77	35.24	23.89	.000
10	14.77	35.24	23.89	.000
15	14.66	35.23	23.92	.000
20	14.50	35.19	23.92	.000
25	14.32	35.17	23.92	.000
30	14.12	35.14	23.92	.000
35	13.90	35.11	23.92	.000
40	13.68	35.08	23.92	.000
45	13.45	35.05	23.92	.000
50	13.23	35.02	23.92	.000
75	12.93	34.99	23.92	.000
100	12.71	34.97	23.92	.000
200	12.41	34.94	23.92	.000
300	12.11	34.91	23.92	.000
400	11.81	34.88	23.92	.000
500	11.51	34.85	23.92	.000
1000	11.21	34.82	23.92	.000
1500	10.91	34.79	23.92	.000
1514	10.71	34.77	23.92	.000



CAST RP-7-00-119 DATE 10 SEP 73 TIME 1100 GMT
 BAROMET. IN CM HG 1012.3 STD 10.4 VES. ALT. 5
 CLOUD X AMOUNT Y DRY 15.4 WET 13.3 DEPTH 2579 M

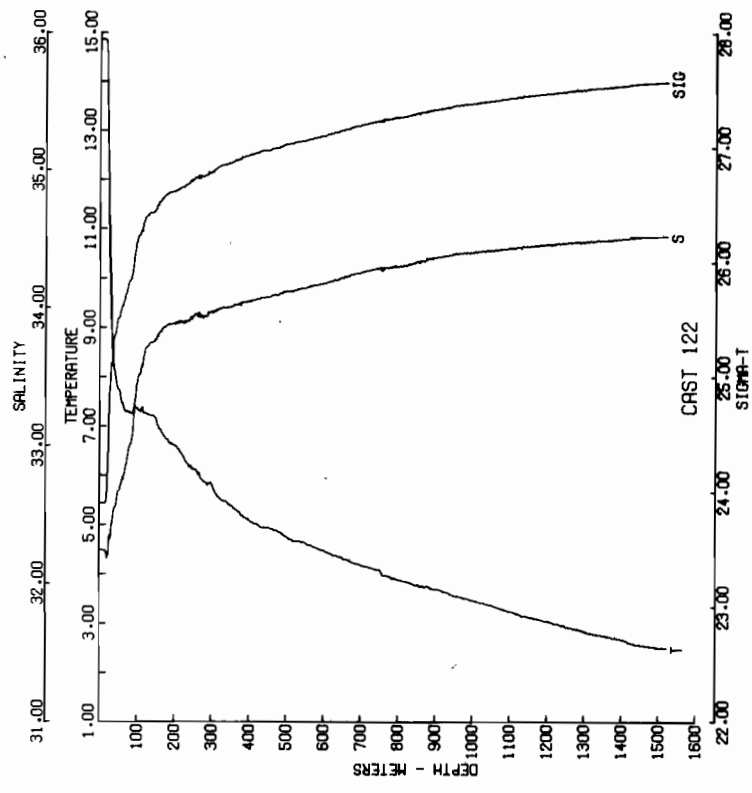


CAST RP-7-00-120 DATE 10 SEP 73 TIME 1000 GMT
 BAROMET. IN CM HG 1012.3 STD 10.4 VES. ALT. 6
 CLOUD X AMOUNT Y DRY 15.0 WET 13.2 DEPTH 1949 M



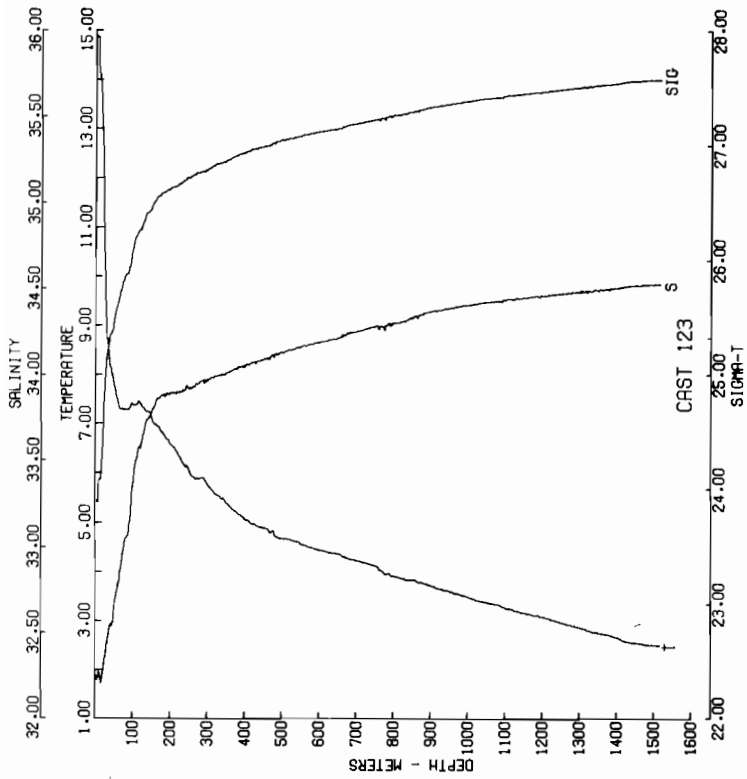
CAST RP-7-00-121 DATE 18 SEP 73 TIME 1530 GMT
 LAT 40 44.7N LONG 125 20.9W WEATHER 1 SEA STATE 3
 BAROMETER 15 WIND DIR 195 T SPD 19 KT VISIBILITY 7
 CLOUD 2 AMOUNT 3 SUR 19.5 MET 14.0 DEPTH 1948 M

DEPTH (M)	TEMPERATURE (C)	SALINITY (PPT)	DELTA-T (OYN M)
0	14.75	32.91	0.000
5	14.79	33.93	0.020
10	14.77	33.92	0.000
15	14.76	33.90	0.000
20	14.75	33.88	0.000
25	12.03	32.76	0.098
30	10.13	32.16	0.115
35	8.33	32.00	0.126
40	7.09	32.06	0.118
45	7.09	32.00	0.111
50	7.27	32.00	0.103
55	7.22	32.00	0.103
60	5.27	32.00	0.103
65	4.03	32.00	0.103
70	3.46	32.00	0.103
75	2.91	32.00	0.103
80	2.52	32.00	0.103
85	2.52	32.00	0.103
90	2.52	32.00	0.103
95	2.52	32.00	0.103
100	2.52	32.00	0.103
105	2.52	32.00	0.103
110	2.52	32.00	0.103
115	2.52	32.00	0.103
120	2.52	32.00	0.103
125	2.52	32.00	0.103
130	2.52	32.00	0.103
135	2.52	32.00	0.103
140	2.52	32.00	0.103
145	2.52	32.00	0.103
150	2.52	32.00	0.103
155	2.52	32.00	0.103
160	2.52	32.00	0.103



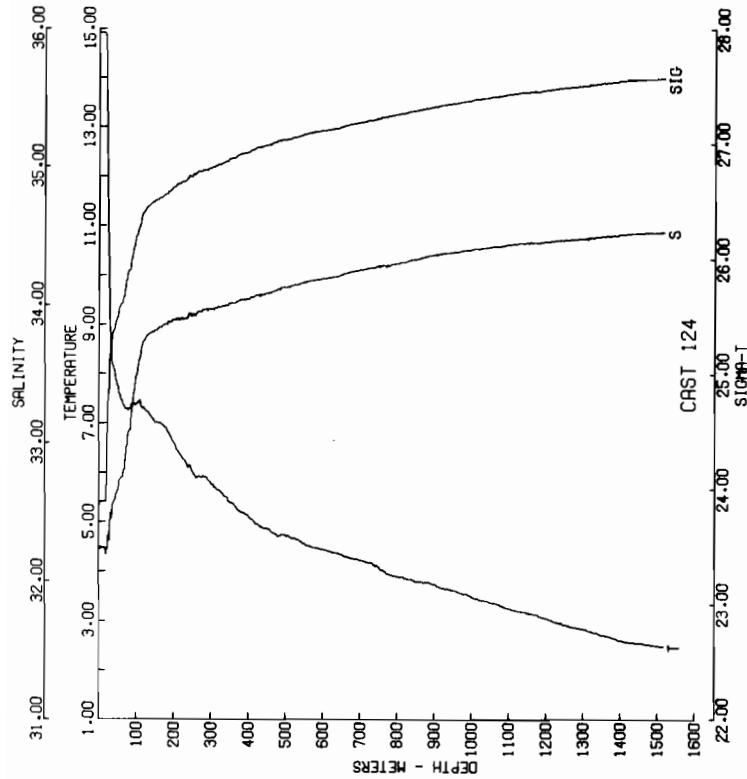
CAST RP-7-00-122 DATE 18 SEP 73 TIME 1700 GMT
 LAT 40 45.5N LONG 125 21.7W WEATHER 1 SEA STATE 3
 BAROMETER 15 WIND DIR 186 T SPD 11 KT VISIBILITY 7
 CLOUD 3 AMOUNT 7 SUR 16.0 MET 14.0 DEPTH 1961 M

DEPTH (M)	TEMPERATURE (C)	SALINITY (PPT)	DELTA-T (OYN M)
0	14.87	32.25	0.000
5	14.86	32.25	0.020
10	14.86	32.25	0.000
15	14.86	32.25	0.000
20	14.86	32.25	0.000
25	10.03	32.25	0.098
30	8.40	32.25	0.114
35	7.09	32.25	0.129
40	7.09	32.25	0.125
45	7.09	32.25	0.125
50	7.09	32.25	0.125
55	7.09	32.25	0.125
60	7.09	32.25	0.125
65	7.09	32.25	0.125
70	6.81	32.25	0.125
75	6.81	32.25	0.125
80	6.81	32.25	0.125
85	6.81	32.25	0.125
90	6.81	32.25	0.125
95	6.81	32.25	0.125
100	6.81	32.25	0.125
105	6.81	32.25	0.125
110	6.81	32.25	0.125
115	6.81	32.25	0.125
120	6.81	32.25	0.125
125	6.81	32.25	0.125
130	6.81	32.25	0.125
135	6.81	32.25	0.125
140	6.81	32.25	0.125
145	6.81	32.25	0.125
150	6.81	32.25	0.125
155	6.81	32.25	0.125
160	6.81	32.25	0.125



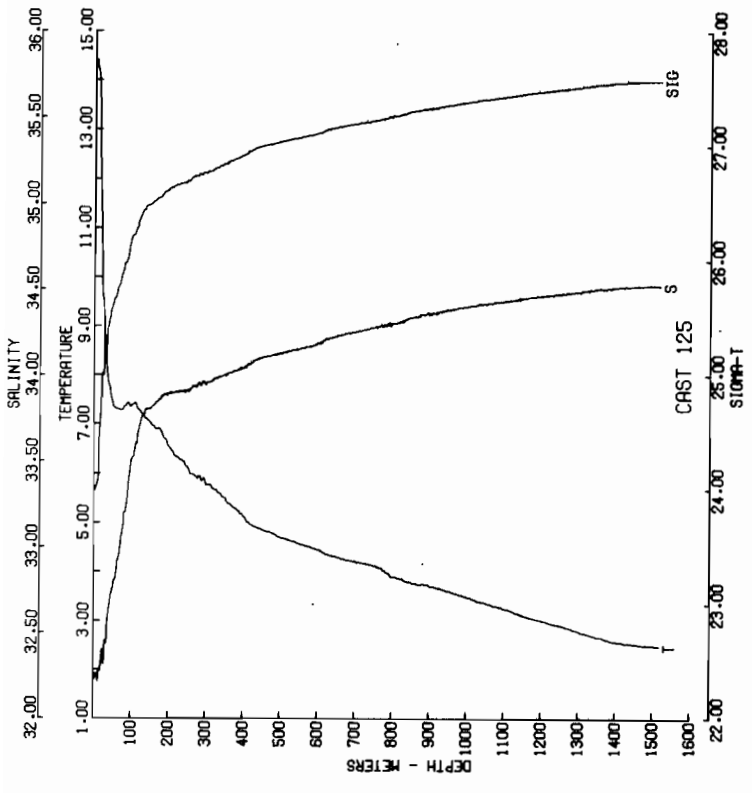
CAST 123 DATE 18 SEP 73 TIME 1830 GMT
 LAT 45.34 LONG 129.21 SEA STATE 4
 WIND DIR 190 T SPD 16.1 MET VISIBILITY 5
 WAVE DIR 190 HGT 1.7 M DEPTH 1570 M
 CLOUD 3 AMOUNT 7 DRW 13.3

DEPTH (M)	TEMPERATURE (C)	SALINITY (PPT)	SIGMA-T (DYN CM ⁻³)	DELTA-T
1	14.94	32.23	23.87	0.000
4	14.89	32.25	23.86	0.000
10	14.82	32.26	23.86	0.000
15	14.77	32.27	23.86	0.000
20	14.71	32.27	23.86	0.000
25	14.65	32.27	23.86	0.000
30	14.59	32.27	23.86	0.000
35	14.53	32.27	23.86	0.000
40	14.47	32.27	23.86	0.000
45	14.41	32.27	23.86	0.000
50	14.35	32.27	23.86	0.000
55	14.29	32.27	23.86	0.000
60	14.23	32.27	23.86	0.000
65	14.17	32.27	23.86	0.000
70	14.11	32.27	23.86	0.000
75	14.05	32.27	23.86	0.000
80	13.99	32.27	23.86	0.000
85	13.93	32.27	23.86	0.000
90	13.87	32.27	23.86	0.000
95	13.81	32.27	23.86	0.000
100	13.75	32.27	23.86	0.000
105	13.69	32.27	23.86	0.000
110	13.63	32.27	23.86	0.000
115	13.57	32.27	23.86	0.000
120	13.51	32.27	23.86	0.000
125	13.45	32.27	23.86	0.000
130	13.39	32.27	23.86	0.000
135	13.33	32.27	23.86	0.000
140	13.27	32.27	23.86	0.000
145	13.21	32.27	23.86	0.000
150	13.15	32.27	23.86	0.000
155	13.09	32.27	23.86	0.000
160	13.03	32.27	23.86	0.000



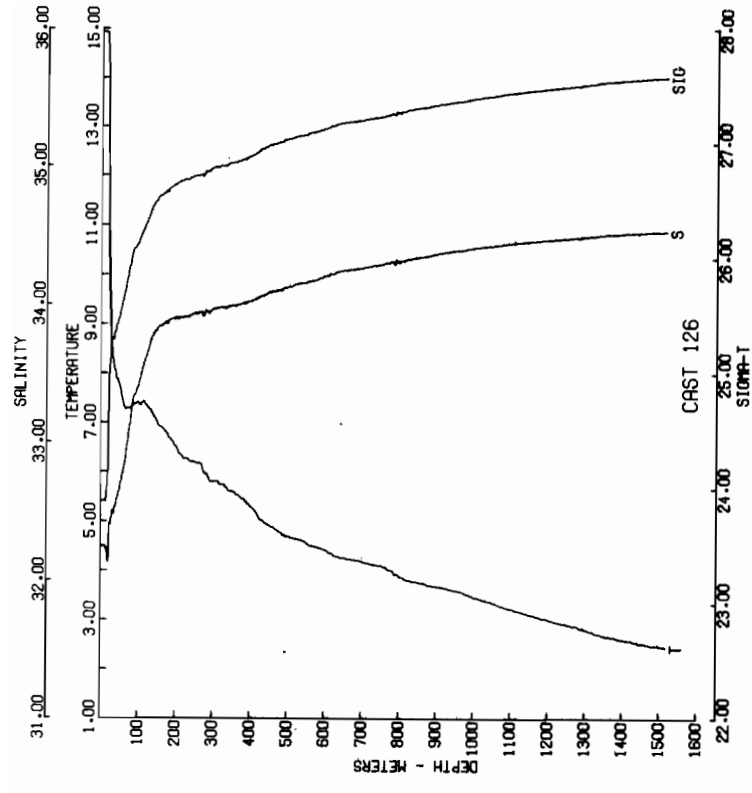
CAST 124 DATE 18 SEP 73 TIME 2002 GMT
 LAT 45.44 LONG 129.22 SEA STATE 4
 WIND DIR 190 T SPD 16.1 MET VISIBILITY 5
 WAVE DIR 190 HGT 1.7 M DEPTH 1577 M
 CLOUD 3 AMOUNT 7 DRW 16.1

DEPTH (M)	TEMPERATURE (C)	SALINITY (PPT)	SIGMA-T (DYN CM ⁻³)	DELTA-T
1	14.92	32.20	23.87	0.000
4	14.92	32.24	23.86	0.000
10	14.92	32.24	23.86	0.000
15	14.92	32.24	23.86	0.000
20	14.92	32.24	23.86	0.000
25	14.92	32.24	23.86	0.000
30	14.92	32.24	23.86	0.000
35	14.92	32.24	23.86	0.000
40	14.92	32.24	23.86	0.000
45	14.92	32.24	23.86	0.000
50	14.92	32.24	23.86	0.000
55	14.92	32.24	23.86	0.000
60	14.92	32.24	23.86	0.000
65	14.92	32.24	23.86	0.000
70	14.92	32.24	23.86	0.000
75	14.92	32.24	23.86	0.000
80	14.92	32.24	23.86	0.000
85	14.92	32.24	23.86	0.000
90	14.92	32.24	23.86	0.000
95	14.92	32.24	23.86	0.000
100	14.92	32.24	23.86	0.000
105	14.92	32.24	23.86	0.000
110	14.92	32.24	23.86	0.000
115	14.92	32.24	23.86	0.000
120	14.92	32.24	23.86	0.000
125	14.92	32.24	23.86	0.000
130	14.92	32.24	23.86	0.000
135	14.92	32.24	23.86	0.000
140	14.92	32.24	23.86	0.000
145	14.92	32.24	23.86	0.000
150	14.92	32.24	23.86	0.000
155	14.92	32.24	23.86	0.000
160	14.92	32.24	23.86	0.000



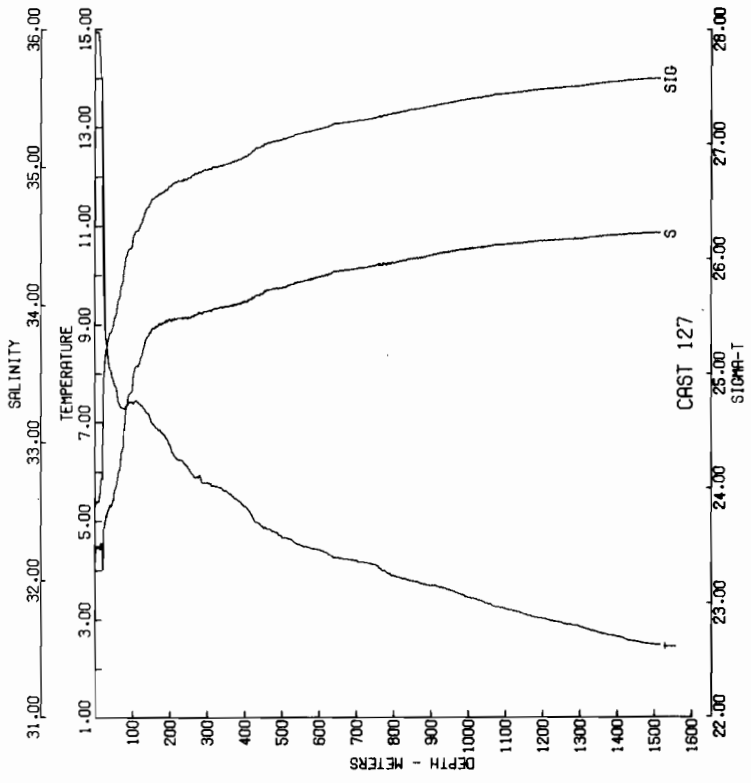
CAST RP-7-CC-125 DATE 18 SEP 73 TIME 2129 GMT
 LAT 46 54.8N LONG 125 21.7W SEA STATE 4
 BAROMETER 15 WIND DIR 198 T SPD 14 KT VISIBILITY 5
 CLOUD 3 AMOUNT 7 WGT 13.9 MET 13.9

DEPTH (M)	TEMPERATURE (C)	SALINITY (PPT)	DELTA-S
0	14.36	32.36	0.000
5	14.41	32.36	.020
10	14.41	32.36	.039
15	14.41	32.36	.058
20	14.41	32.36	.077
25	14.41	32.36	.096
30	14.41	32.36	.114
35	14.41	32.36	.133
40	14.41	32.36	.151
45	14.41	32.36	.170
50	14.41	32.36	.188
55	14.41	32.36	.207
60	14.41	32.36	.225
65	14.41	32.36	.244
70	14.41	32.36	.262
75	14.41	32.36	.281
80	14.41	32.36	.300
85	14.41	32.36	.318
90	14.41	32.36	.337
95	14.41	32.36	.355
100	14.41	32.36	.374
105	14.41	32.36	.392
110	14.41	32.36	.411
115	14.41	32.36	.429
120	14.41	32.36	.448
125	14.41	32.36	.466
130	14.41	32.36	.485
135	14.41	32.36	.503
140	14.41	32.36	.522
145	14.41	32.36	.540
150	14.41	32.36	.559
155	14.41	32.36	.577
160	14.41	32.36	.596



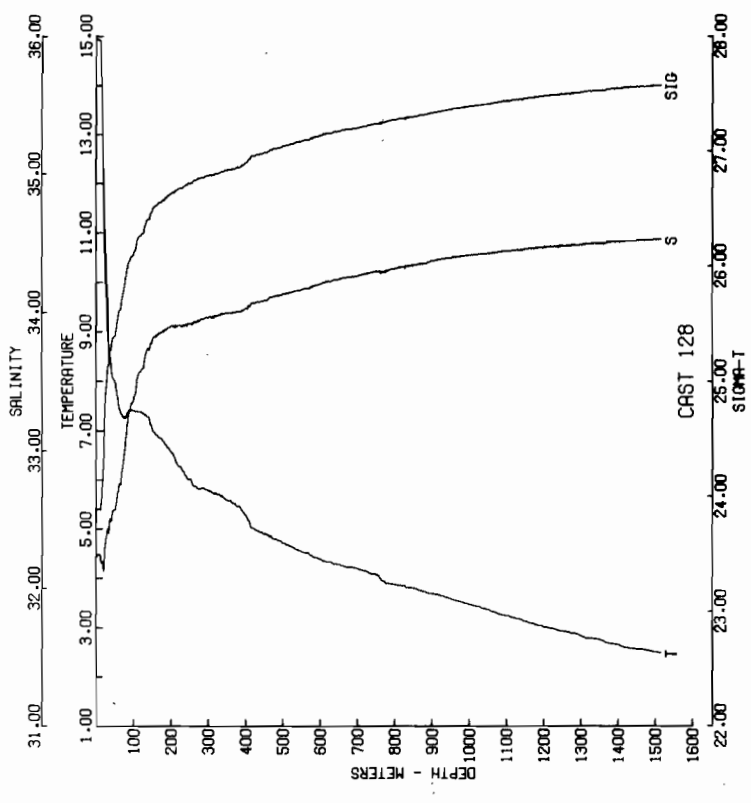
CAST RP-7-CC-126 DATE 18 SEP 73 TIME 2303 GMT
 LAT 46 54.8N LONG 125 21.7W SEA STATE 4
 BAROMETER 15 WIND DIR 198 T SPD 14 KT VISIBILITY 6
 CLOUD 3 AMOUNT 7 WGT 14.1 MET 14.1

DEPTH (M)	TEMPERATURE (C)	SALINITY (PPT)	DELTA-S
0	14.32	32.32	0.000
5	14.39	32.32	.020
10	14.39	32.32	.040
15	14.39	32.32	.060
20	14.39	32.32	.080
25	14.39	32.32	.100
30	14.39	32.32	.120
35	14.39	32.32	.140
40	14.39	32.32	.160
45	14.39	32.32	.180
50	14.39	32.32	.200
55	14.39	32.32	.220
60	14.39	32.32	.240
65	14.39	32.32	.260
70	14.39	32.32	.280
75	14.39	32.32	.300
80	14.39	32.32	.320
85	14.39	32.32	.340
90	14.39	32.32	.360
95	14.39	32.32	.380
100	14.39	32.32	.400
105	14.39	32.32	.420
110	14.39	32.32	.440
115	14.39	32.32	.460
120	14.39	32.32	.480
125	14.39	32.32	.500
130	14.39	32.32	.520
135	14.39	32.32	.540
140	14.39	32.32	.560
145	14.39	32.32	.580
150	14.39	32.32	.600
155	14.39	32.32	.620
160	14.39	32.32	.640



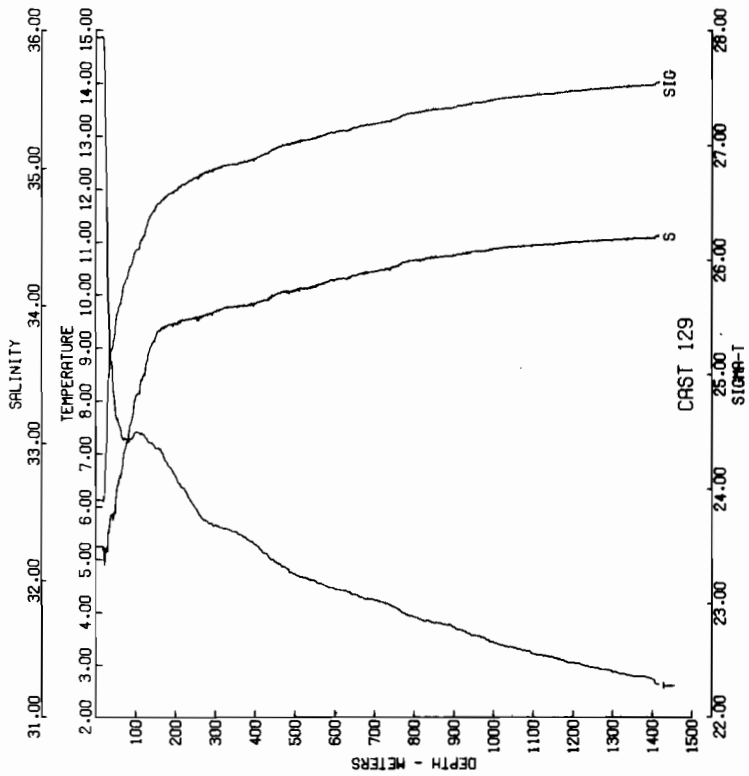
CAST RP-7-GC-127 DATE 19 SEP 73 TIME 0030 GMT
 LAT 40° 25' N LONG 123° 21' W WEATHER 6
 WIND DIR 000 WIND SPC 000 SEA STATE 4
 SURFACE WAVE DIR 000 WAVE HGT 1.5 M DEPTH 1552 M
 CLOUD AMOUNT 0 DRY 15.9

DEPTH (M)	TEMPERATURE (C)	SALINITY (PPT)	SIGMA-T (DBAR)	DELTA-T (DBAR)
0	14.94	34.21	25.86	0.00
1	14.94	34.20	25.86	0.00
2	14.94	34.24	25.88	0.02
3	14.94	34.25	25.90	0.04
4	14.94	34.25	25.91	0.06
5	14.94	34.25	25.92	0.08
10	14.94	34.25	25.92	0.10
15	14.94	34.25	25.92	0.11
20	14.94	34.25	25.92	0.12
30	14.94	34.25	25.92	0.13
40	14.94	34.25	25.92	0.14
50	14.94	34.25	25.92	0.15
75	14.94	34.25	25.92	0.17
100	14.94	34.25	25.92	0.18
150	14.94	34.25	25.92	0.20
200	14.94	34.25	25.92	0.23
300	14.94	34.25	25.92	0.27
400	14.94	34.25	25.92	0.31
500	14.94	34.25	25.92	0.34
600	14.94	34.25	25.92	0.37
700	14.94	34.25	25.92	0.41
800	14.94	34.25	25.92	0.44
900	14.94	34.25	25.92	0.47
1000	14.94	34.25	25.92	0.50
1100	14.94	34.25	25.92	0.53
1200	14.94	34.25	25.92	0.57
1300	14.94	34.25	25.92	0.60
1400	14.94	34.25	25.92	0.63
1500	14.94	34.25	25.92	0.66
1600	14.94	34.25	25.92	0.69



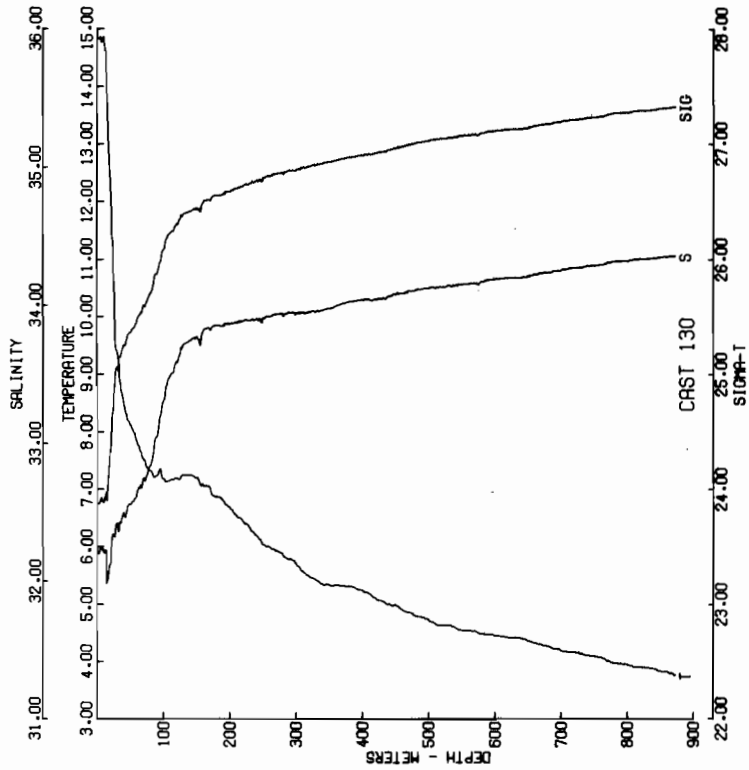
CAST RP-7-GC-128 DATE 19 SEP 73 TIME 0010 GMT
 LAT 40° 25' N LONG 123° 21' W WEATHER 6
 WIND DIR 000 WIND SPC 000 SEA STATE 4
 SURFACE WAVE DIR 000 WAVE HGT 1.5 M DEPTH 1553 M
 CLOUD AMOUNT 0 DRY 15.0

DEPTH (M)	TEMPERATURE (C)	SALINITY (PPT)	SIGMA-T (DBAR)	DELTA-T (DBAR)
0	14.94	34.22	25.87	0.00
1	14.94	34.22	25.87	0.00
2	14.94	34.24	25.89	0.02
3	14.94	34.25	25.91	0.04
4	14.94	34.25	25.92	0.06
5	14.94	34.25	25.93	0.08
10	14.94	34.25	25.93	0.10
15	14.94	34.25	25.93	0.11
20	14.94	34.25	25.93	0.12
30	14.94	34.25	25.93	0.13
40	14.94	34.25	25.93	0.14
50	14.94	34.25	25.93	0.15
75	14.94	34.25	25.93	0.17
100	14.94	34.25	25.93	0.18
150	14.94	34.25	25.93	0.20
200	14.94	34.25	25.93	0.23
300	14.94	34.25	25.93	0.27
400	14.94	34.25	25.93	0.31
500	14.94	34.25	25.93	0.34
600	14.94	34.25	25.93	0.37
700	14.94	34.25	25.93	0.41
800	14.94	34.25	25.93	0.44
900	14.94	34.25	25.93	0.47
1000	14.94	34.25	25.93	0.50
1100	14.94	34.25	25.93	0.53
1200	14.94	34.25	25.93	0.57
1300	14.94	34.25	25.93	0.60
1400	14.94	34.25	25.93	0.63
1500	14.94	34.25	25.93	0.66
1600	14.94	34.25	25.93	0.69



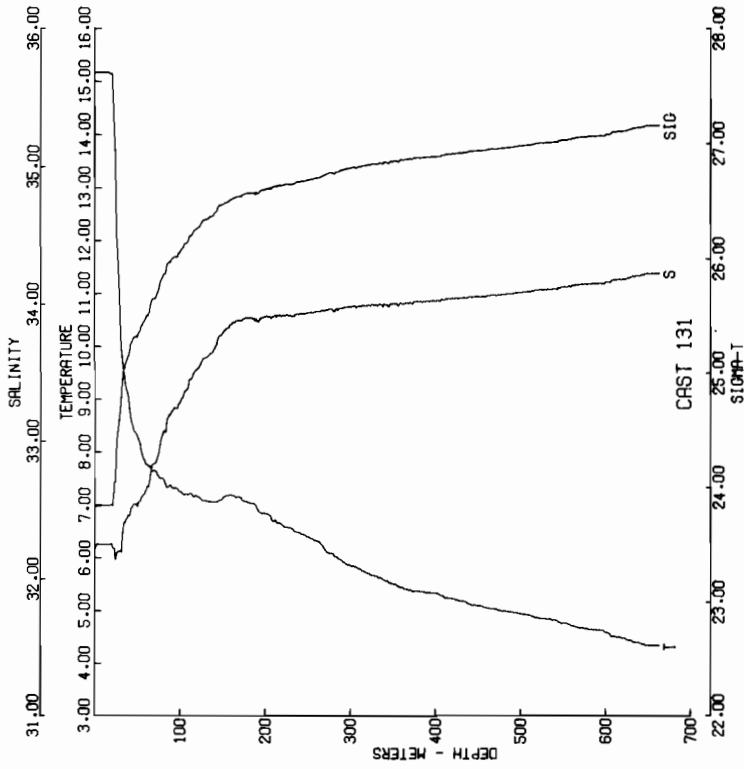
CAST RP-7-00-129 DATE 19 SEP 73 TIME 0314 GMT
 LAT 40 54.54 N LONG 125 17 22 W WEATHER S SEA STATE 4
 SURFACE WIND DIR 010 WIND SPD 06 KT VISIBILITY 5
 BAROMETER AMOUNT 9 DRY 13.8 WET 14.3 DELTA-T 1419 H

DEPTH (M)	TEMPERATURE (C)	SALINITY (PPT)	SIGMA-T (DYN M)	DELTA-T
0	14.80	32.55	23.90	0.000
1	14.89	32.55	23.90	.020
2	14.87	32.55	23.90	.060
3	14.83	32.55	23.90	.080
4	14.78	32.55	23.90	.112
5	14.72	32.55	23.90	.146
10	14.67	32.55	23.90	.190
20	14.60	32.55	23.90	.234
30	14.53	32.55	23.90	.278
40	14.46	32.55	23.90	.322
50	14.40	32.55	23.90	.366
75	14.30	32.55	23.90	.410
100	14.20	32.55	23.90	.454
150	14.11	32.55	23.90	.498
200	14.02	32.55	23.90	.542
300	13.92	32.55	23.90	.586
400	13.83	32.55	23.90	.630
500	13.74	32.55	23.90	.674
750	13.64	32.55	23.90	.718
1000	13.54	32.55	23.90	.762
1100	13.49	32.55	23.90	.806
1200	13.43	32.55	23.90	.850
1300	13.37	32.55	23.90	.894
1400	13.31	32.55	23.90	.938
1500	13.25	32.55	23.90	.982



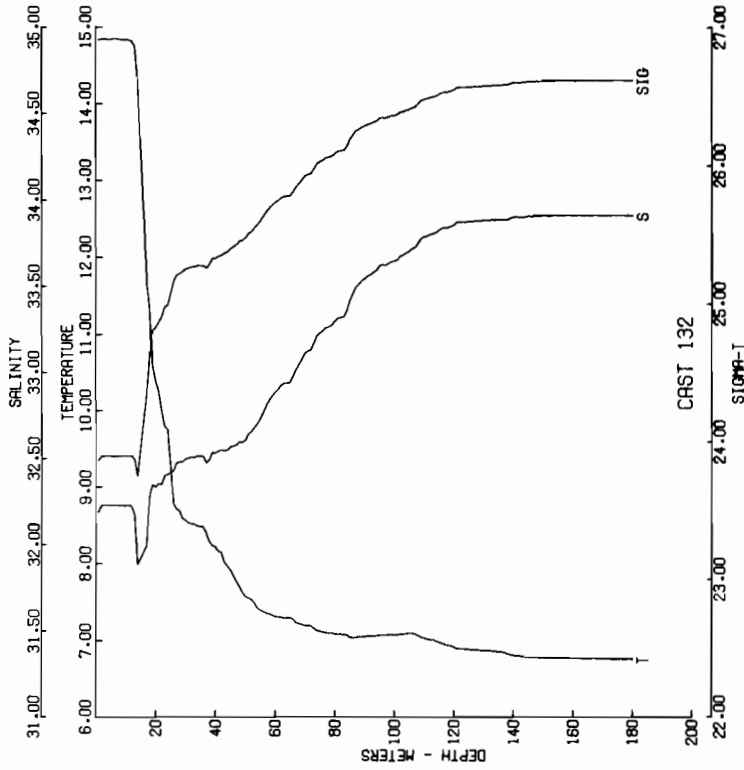
CAST RP-7-00-130 DATE 19 SEP 73 TIME 0511 GMT
 LAT 40 45.31 N LONG 125 09 44 W WEATHER S SEA STATE 4
 SURFACE WIND DIR 122 T WIND SPD 16 KT VISIBILITY 5
 BAROMETER AMOUNT 9 DRY 13.5 WET 14.3 DELTA-T 8874 H

DEPTH (M)	TEMPERATURE (C)	SALINITY (PPT)	SIGMA-T (DYN M)	DELTA-T
0	14.92	32.17	23.87	0.000
1	14.89	32.22	23.87	.020
2	14.86	32.22	23.87	.060
3	14.83	32.22	23.87	.099
4	14.79	32.22	23.87	.138
5	14.75	32.22	23.87	.177
10	14.68	32.22	23.87	.216
20	14.62	32.22	23.87	.255
30	14.56	32.22	23.87	.294
40	14.50	32.22	23.87	.333
50	14.44	32.22	23.87	.372
75	14.38	32.22	23.87	.411
100	14.32	32.22	23.87	.450
150	14.26	32.22	23.87	.489
200	14.20	32.22	23.87	.528
300	14.14	32.22	23.87	.567
400	14.08	32.22	23.87	.606
500	14.02	32.22	23.87	.645
750	13.96	32.22	23.87	.684
900	13.90	32.22	23.87	.723



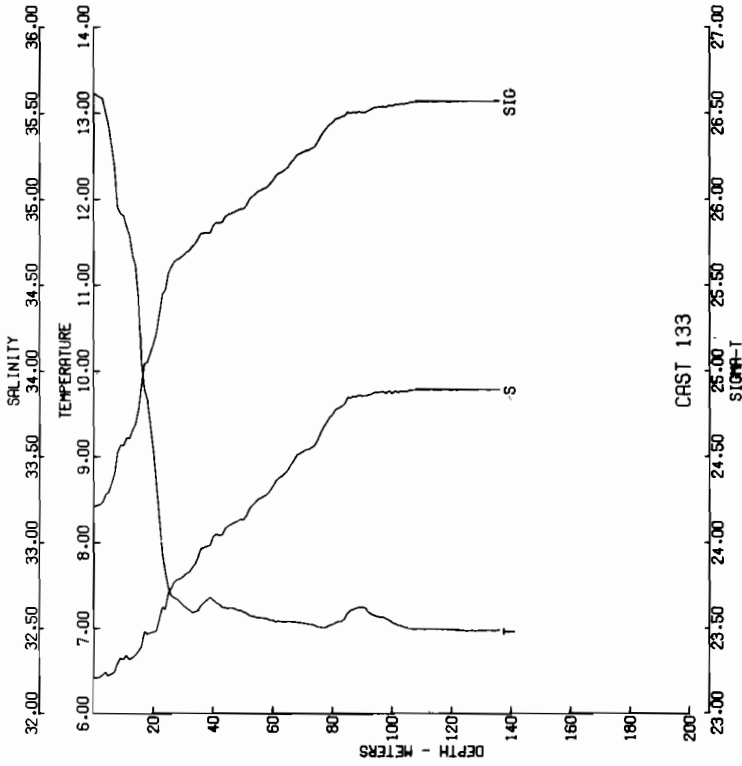
CAST RP-7-00-131 DATE 19 SEP 73 TIME 0646 GMT
 LAB# 4045 IN LOG# 131590 T SMOKE# 9
 BAROMETER PRESSURE 1015.4 VELOCITY 4
 CLOUDY AMOUNT 3 DRY 15.0 WET 16.1 DEPTH 0668 M

DEPTH (M)	TEMPERATURE (C)	SALINITY (PPT)	SIGMA-T (DM/M)
0	0.000	23.82	23.82
10	0.00	23.84	23.84
15	0.01	23.84	23.84
20	0.02	23.84	23.84
25	0.10	23.64	23.64
30	0.11	23.80	23.80
35	0.18	23.80	23.80
40	0.18	23.80	23.80
45	0.12	23.80	23.80
50	0.12	23.80	23.80
55	0.17	23.62	23.62
60	0.37	26.06	26.06
65	0.37	25.97	25.97
70	0.37	25.97	25.97
75	0.33	27.13	27.13
80	0.33	27.13	27.13



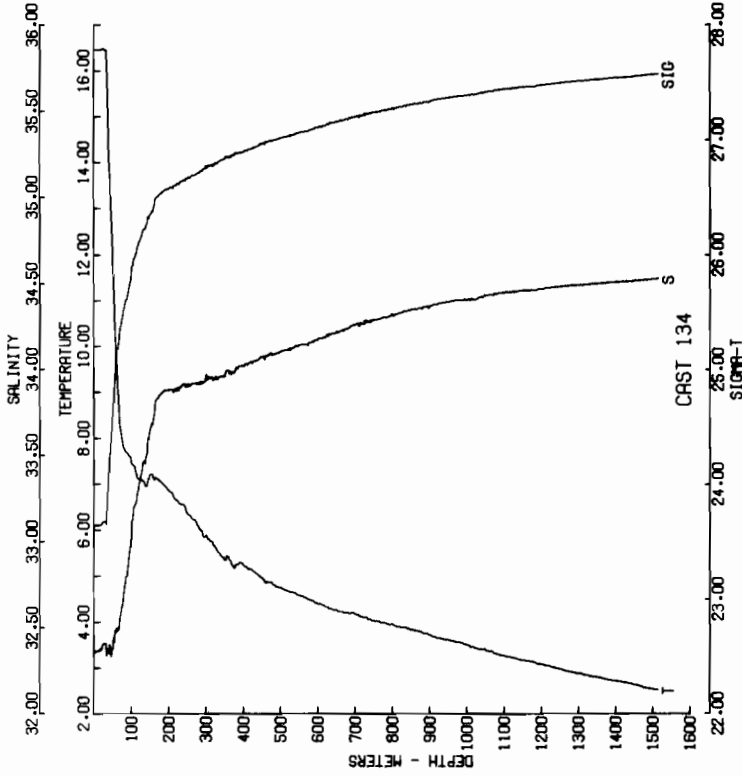
CAST RP-7-00-132 DATE 19 SEP 73 TIME 0814 GMT
 LAB# 4045 IN LOG# 134455 WEAHER 5
 BAROMETER PRESSURE 1015.4 VELOCITY 4
 CLOUDY AMOUNT 3 DRY 14.5 WET 13.8 DEPTH 0184 M

DEPTH (M)	TEMPERATURE (C)	SALINITY (PPT)	SIGMA-T (DM/M)
0	0.000	23.80	23.80
5	0.00	23.80	23.80
10	0.00	23.80	23.80
15	0.06	23.59	23.59
20	0.06	23.80	23.80
25	0.07	23.65	23.65
30	0.12	23.80	23.80
35	0.12	23.80	23.80
40	0.12	23.80	23.80
45	0.16	25.74	25.74
50	0.16	25.60	25.60
55	0.16	25.60	25.60
60	0.26	26.62	26.62
65	0.26	26.62	26.62
70	0.26	26.62	26.62



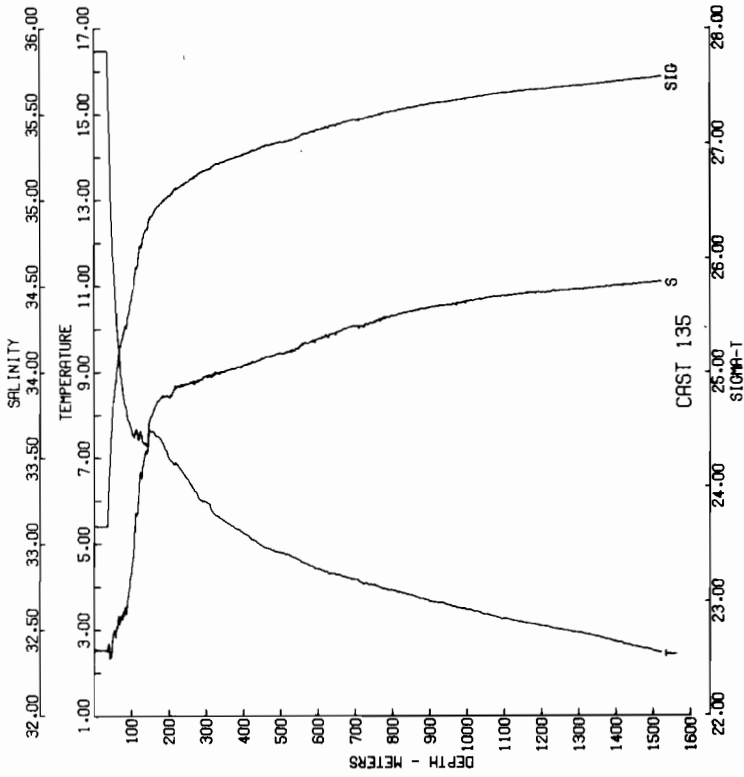
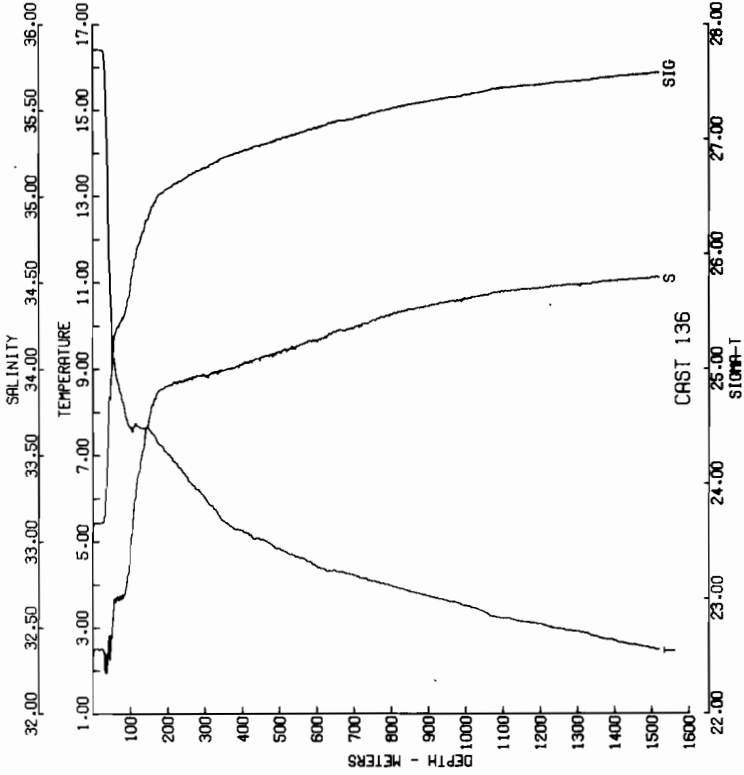
CAST NP-7-CC-133 DATE 19 SEP 73 TIME 0912 GMT
 LAT 46 44 3N LONG 124 40 0W WEATHER 6 SEA STATE 4
 BAROMETER 10 WIND DIR 140 T SPD 13 KT VISIBILITY 3
 CLOUD X AMOUNT 9 DRY 13.5 MET 13.1 DEPTH 0139 H

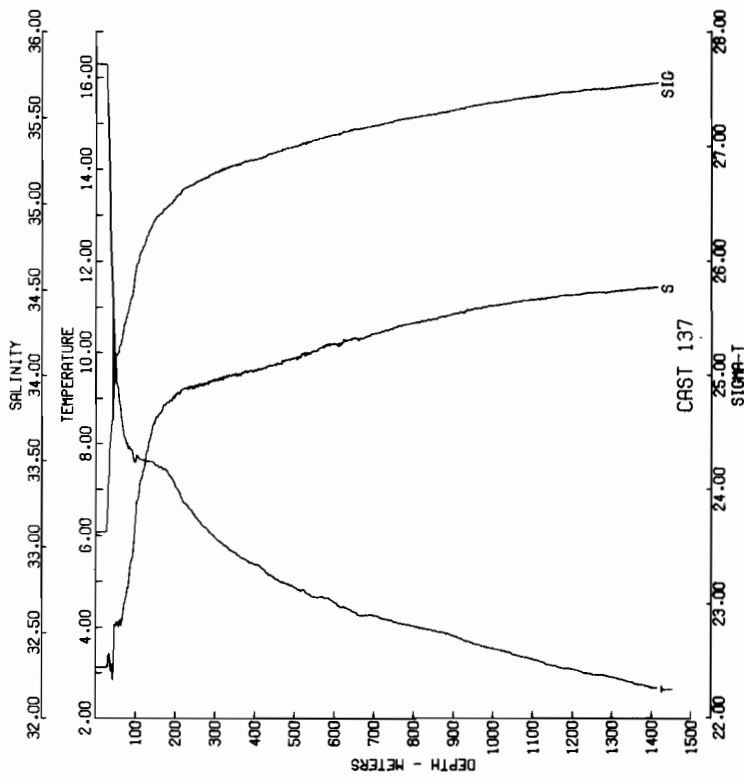
DEPTH (M)	TEMPERATURE (C)	SALINITY (PPT)	SIGMA-T (DYN M)	DELTA-D
0	13.24	32.21	24.21	0.000
10	11.81	32.22	24.21	.018
20	10.93	32.26	24.21	.036
30	10.49	32.31	24.21	.052
40	10.27	32.34	24.21	.067
50	10.21	32.35	24.21	.081
60	10.21	32.35	24.21	.092
70	10.21	32.35	24.21	.104
80	10.21	32.35	24.21	.115
90	10.21	32.35	24.21	.125
100	10.21	32.35	24.21	.135
110	10.21	32.35	24.21	.144
120	10.21	32.35	24.21	.153
130	10.21	32.35	24.21	.162
140	10.21	32.35	24.21	.171
150	10.21	32.35	24.21	.180
160	10.21	32.35	24.21	.189
170	10.21	32.35	24.21	.198
180	10.21	32.35	24.21	.207
190	10.21	32.35	24.21	.216
200	10.21	32.35	24.21	.222



CAST NP-7-CC-134 DATE 19 SEP 73 TIME 1308 GMT
 LAT 46 12 3N LONG 125 32 5W WEATHER 6 SEA STATE 4
 BAROMETER 02 WIND DIR 119 T SPD 25 KT VISIBILITY 4
 CLOUD X AMOUNT 9 DRY 13.6 MET 13.0 DEPTH 1185 H

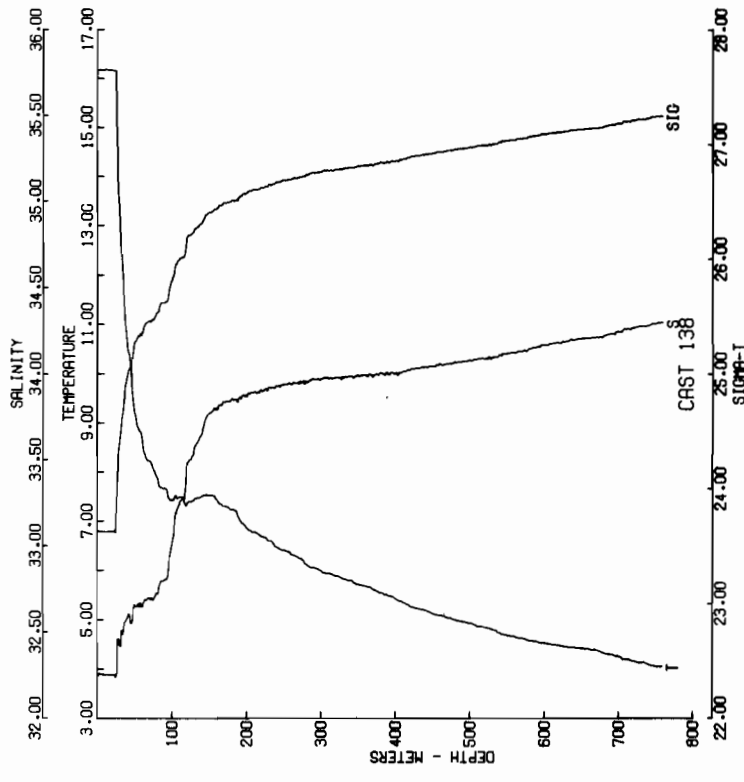
DEPTH (M)	TEMPERATURE (C)	SALINITY (PPT)	SIGMA-T (DYN M)	DELTA-D
0	16.46	32.64	23.64	0.000
10	16.47	32.64	23.64	.021
20	16.47	32.64	23.64	.043
30	16.47	32.64	23.64	.065
40	16.47	32.64	23.64	.087
50	16.47	32.64	23.64	.109
60	16.47	32.64	23.64	.131
70	16.47	32.64	23.64	.153
80	16.47	32.64	23.64	.175
90	16.47	32.64	23.64	.197
100	16.47	32.64	23.64	.219
110	16.47	32.64	23.64	.241
120	16.47	32.64	23.64	.263
130	16.47	32.64	23.64	.285
140	16.47	32.64	23.64	.307
150	16.47	32.64	23.64	.329
1600	16.47	32.64	23.64	.351





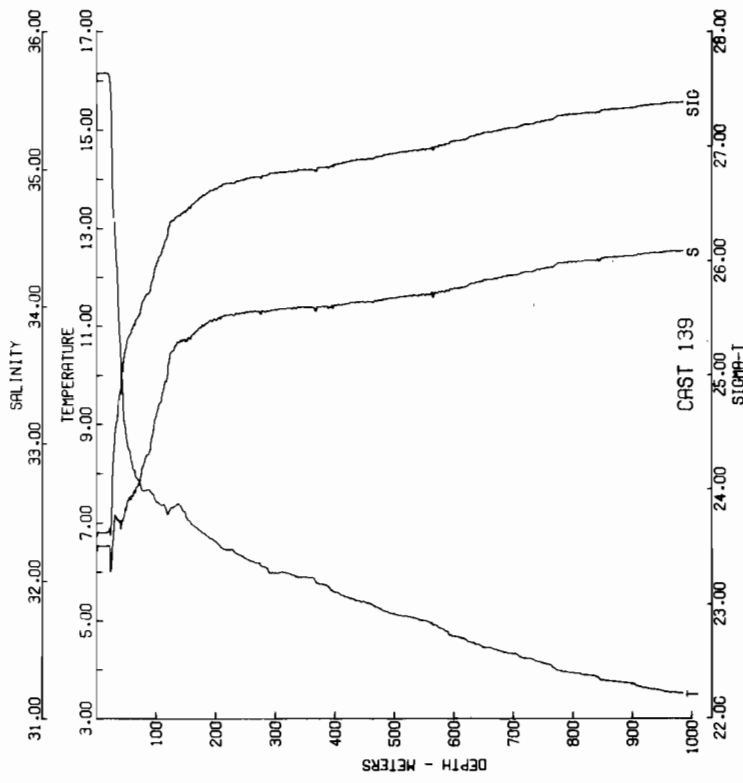
CAST RP-7-CO-137 DATE 19 SEP 73 TIME 1903 GMT
 LAT 43 12.6N LONG 124 03.8W WEATHER 2 SEA STATE 4
 BAROMETER 01 WIND DIR 190 T SPD 20 KT VISIBILITY 6
 CLOUDS 3 AMOUNT 8 DRY 17.6 WET 15.8 DEPTH 1410 M

DEPTH (M)	TEMPERATURE (C)	SALINITY (PPT)	DELTA-SIGMA-T (DYN M)
0	16.29	32.30	23.63
5	16.29	32.30	23.63
10	16.29	32.30	23.63
20	16.29	32.30	23.63
30	16.29	32.30	23.63
40	16.29	32.30	23.63
50	16.29	32.30	23.63
100	16.29	32.30	23.63
200	16.29	32.30	23.63
300	16.29	32.30	23.63
400	16.29	32.30	23.63
500	16.29	32.30	23.63
600	16.29	32.30	23.63
700	16.29	32.30	23.63
800	16.29	32.30	23.63
900	16.29	32.30	23.63
1000	16.29	32.30	23.63
1100	16.29	32.30	23.63
1200	16.29	32.30	23.63
1300	16.29	32.30	23.63
1400	16.29	32.30	23.63
1500	16.29	32.30	23.63



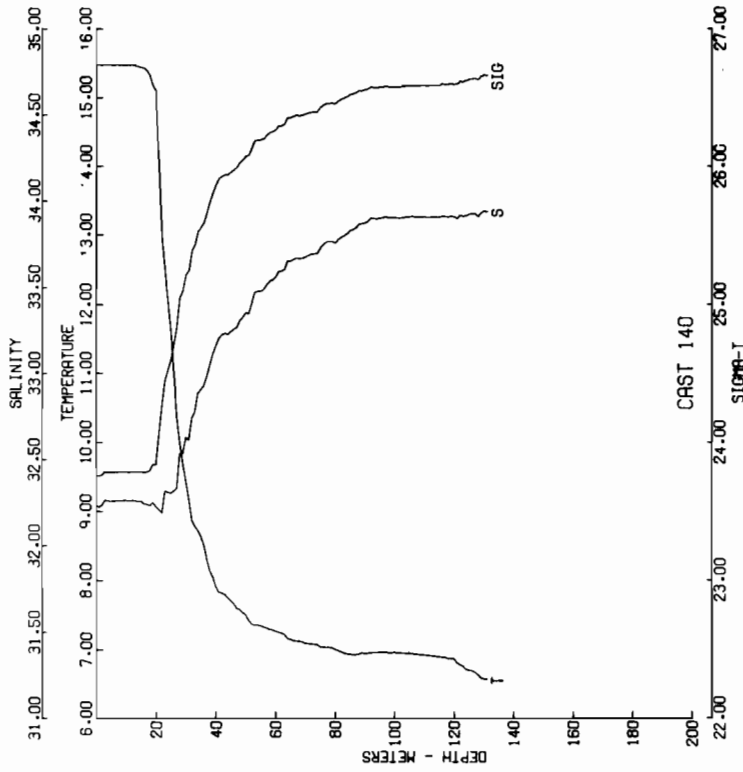
CAST RP-7-CO-138 DATE 19 SEP 73 TIME 2100 GMT
 LAT 43 11.7N LONG 124 53.5W WEATHER 2 SEA STATE 4
 BAROMETER 01 WIND DIR 190 T SPD 22 KT VISIBILITY 6
 CLOUDS 3 AMOUNT 8 DRY 16.9 WET 15.9 DEPTH 0762 M

DEPTH (M)	TEMPERATURE (C)	SALINITY (PPT)	DELTA-SIGMA-T (DYN M)
0	16.17	32.24	23.61
5	16.18	32.25	23.62
10	16.17	32.25	23.62
20	16.17	32.25	23.62
30	16.15	32.24	23.61
40	13.19	32.44	23.48
50	11.99	32.25	23.55
60	11.01	32.55	23.28
70	9.20	32.66	23.12
80	7.72	32.97	22.96
100	6.00	33.47	22.76
200	4.93	34.38	22.57
300	4.40	34.79	22.45
400	4.05	34.90	22.42



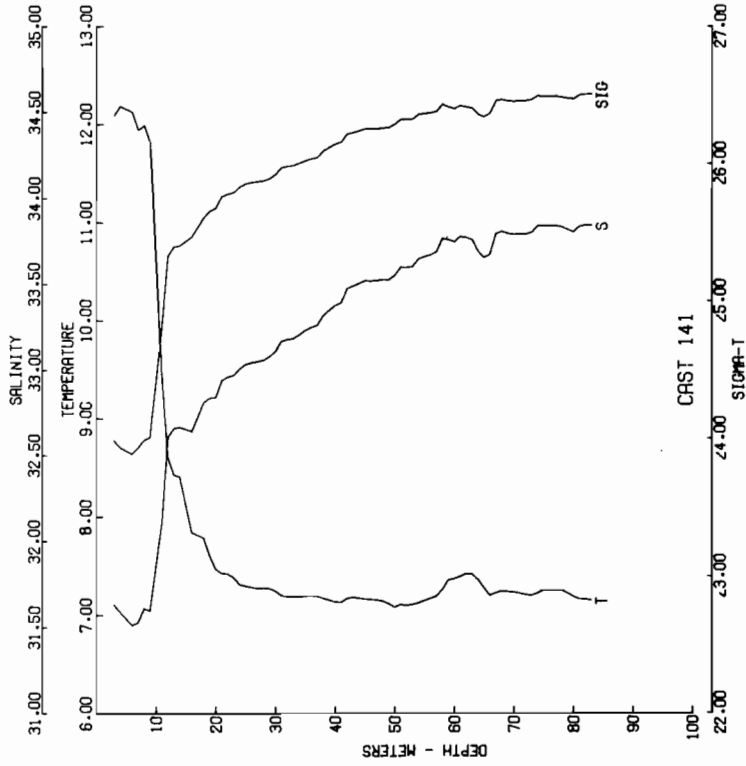
CAST 139-7-00-139 DATE 14 SEP 73 TIME 2236 GMT
 LAT 46 12.2N LONG 124 44.3W WEATHER 1 SEA STATE 4
 BAROMETER 01 WIND DIR 210 T SPD 17 KT VISIBILITY 9
 CLOUD 6 AMOUNT 5 DRV 17.0 MET 15.2 DEPTH 0997 M

DEPTH (M)	TEMPERATURE (C)	SALINITY (PPT)	DELTA-S
0	16.15	32.21	0.000
1	16.15	32.21	0.021
2	16.19	32.20	0.023
3	16.17	32.26	0.023
4	16.14	32.26	0.026
5	15.38	32.07	0.017
6	13.18	32.42	0.109
7	12.71	32.45	0.133
8	12.71	32.46	0.133
9	12.74	32.22	0.188
10	12.74	32.28	0.203
15	12.72	32.25	0.208
20	12.72	32.25	0.208
30	12.72	32.25	0.208
40	12.72	32.25	0.208
50	12.72	32.25	0.208
60	12.72	32.25	0.208
70	12.72	32.25	0.208
80	12.72	32.25	0.208
90	12.72	32.25	0.208
100	12.72	32.25	0.208



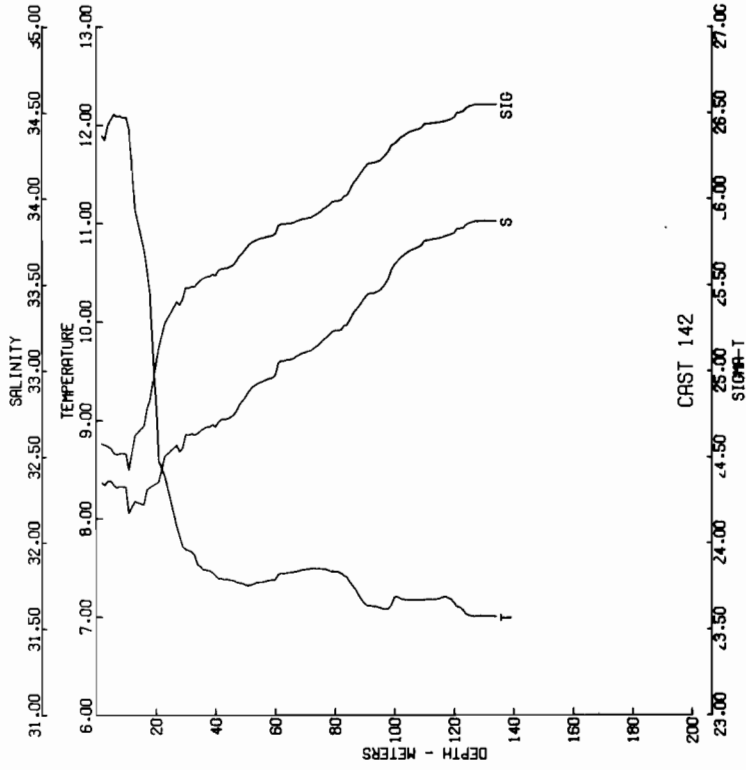
CAST 140-7-00-140 DATE 20 SEP 73 TIME 0019 GMT
 LAT 46 11.2N LONG 124 29.8W WEATHER 1 SEA STATE 4
 BAROMETER 02 WIND DIR 200 T SPD 20 KT VISIBILITY 7
 CLOUD 6 AMOUNT 16.1 MET 15.0 DEPTH 0146 M

DEPTH (M)	TEMPERATURE (C)	SALINITY (PPT)	DELTA-S
0	15.48	32.23	0.000
1	15.48	32.23	0.021
2	15.47	32.26	0.021
3	15.44	32.26	0.023
4	15.44	32.26	0.023
5	11.61	32.51	0.101
6	9.65	32.63	0.119
7	9.63	32.90	0.129
8	9.71	33.26	0.151
9	9.71	33.35	0.161
10	9.71	33.35	0.161
15	9.58	33.30	0.203
20	9.58	33.30	0.203



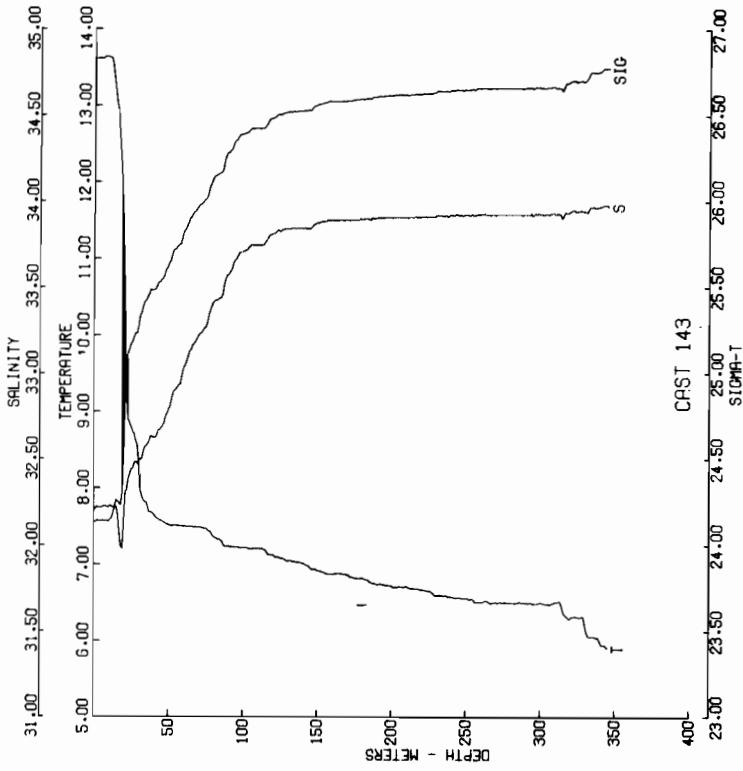
CAST NP-7-OC-141 DATE 20 SEP 73 TIME 0147 GMT
 BAROM 705.2N LONG 124.482M LAT 13.212N
 WIND 12.0 MPS DIR 102.1 SURF WIND 12.0 MPS DIR 102.1
 CLOUD 6 AMOUNT 7 DRY 14.4 WET 13.7 DEPTH 0103 M

DEPTH (M)	TEMPERATURE (C)	SALINITY (PPT)	SIGMA-T (DM)	DELTA-T
3	13.20	31.71	24.01	0.000
5	12.16	31.95	24.29	.020
10	10.62	31.45	24.41	.039
15	8.12	31.05	24.44	.053
20	7.29	31.03	24.48	.077
30	7.29	31.11	24.92	.087
35	7.19	31.23	25.02	.093
40	7.10	31.37	25.15	.097
50	7.00	31.55	25.35	.125
70	7.25	31.84	26.49	.166
80	7.15	31.84	26.51	.166



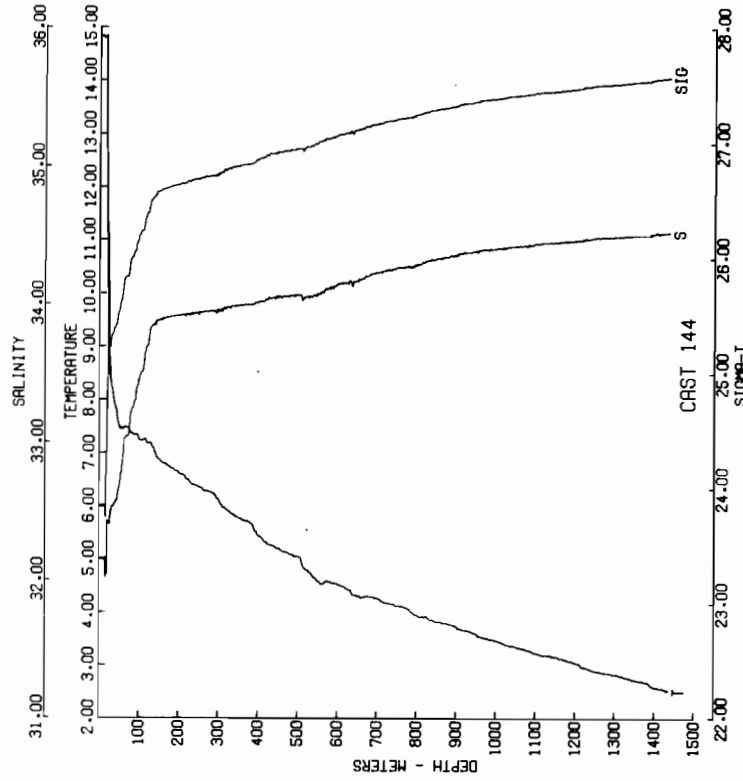
CAST NP-7-OC-142 DATE 20 SEP 73 TIME 0002 GMT
 BAROM 705.2N LONG 124.482M LAT 13.212N
 WIND 12.0 MPS DIR 102.1 SURF WIND 12.0 MPS DIR 102.1
 CLOUD 6 AMOUNT 9 DRY 13.8 WET 13.2 DEPTH 0133 M

DEPTH (M)	TEMPERATURE (C)	SALINITY (PPT)	SIGMA-T (DM)	DELTA-T
3	11.70	32.35	24.61	0.000
5	12.09	32.75	24.59	.017
10	12.08	32.32	24.52	.034
15	10.87	32.23	24.66	.061
20	9.15	32.34	24.66	.066
30	7.18	32.63	24.94	.083
35	7.51	32.66	25.08	.093
40	7.42	32.69	25.15	.100
50	7.33	32.82	25.35	.118
70	7.49	33.16	25.91	.157
80	7.20	33.67	26.32	.175
100	7.00	33.67	26.32	.175



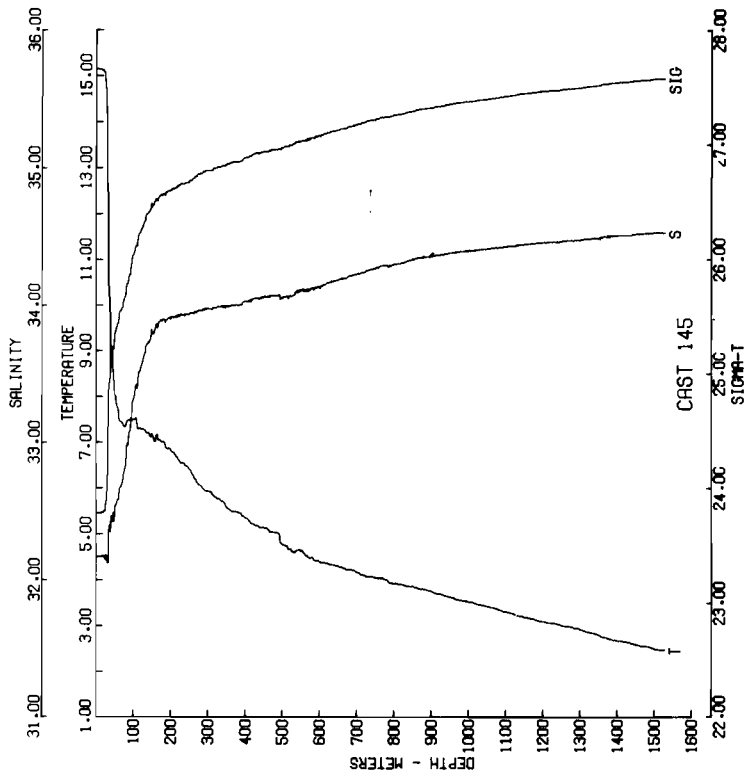
CRST 143 DATE 20 SEP 73 TIME 0953 GMT
 LAT 47 03.84 LONG 124 59.34 WEATHER 6 SEA STATE 4
 BAROM FLR 98 WIND DIR 150 T SPD 22 KT VISIBILITY 1
 CLOUD X AMOUNT 3 DRY 14.0 MET 11.7 DEPTH 9348 H

DEPTH (M)	TEMPERATURE (C)	SALINITY (PPT)	SIGMA-T (DYN M)	DELTA-T
0	13.61	32.21	24.14	0.000
1	13.62	32.21	24.14	0.019
2	13.63	32.22	24.14	0.037
3	13.64	32.23	24.15	0.055
4	13.65	32.24	24.16	0.073
5	13.66	32.25	24.17	0.090
10	13.67	32.26	24.18	0.108
20	13.68	32.27	24.19	0.126
30	13.69	32.28	24.20	0.144
40	13.70	32.29	24.21	0.162
50	13.71	32.30	24.22	0.180
100	13.72	32.31	24.23	0.198
200	13.73	32.32	24.24	0.216
300	13.74	32.33	24.25	0.234
400	13.75	32.34	24.26	0.252



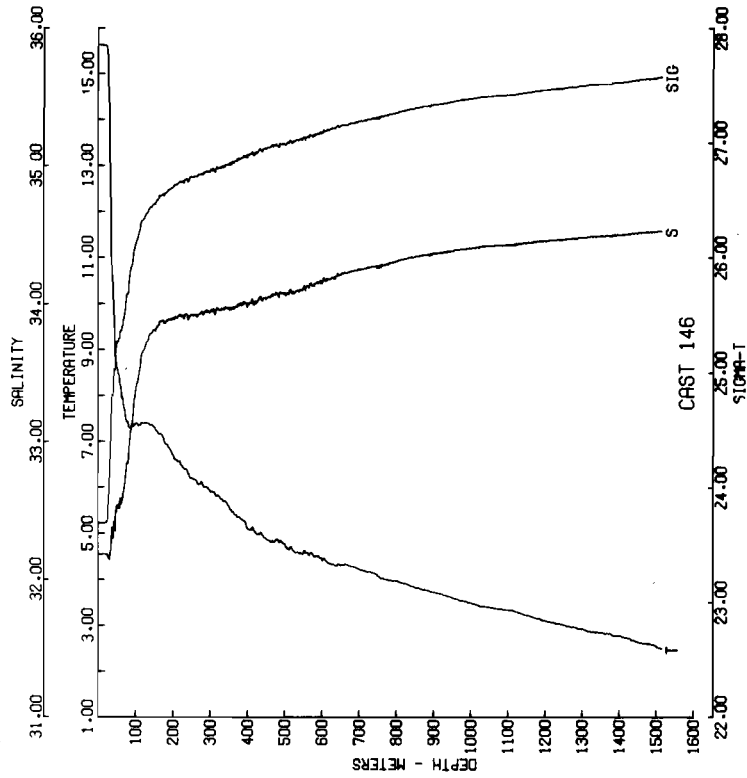
CRST 144 DATE 20 SEP 73 TIME 0955 GMT
 LAT 47 03.84 LONG 124 59.34 WEATHER 6 SEA STATE 4
 BAROM FLR 98 WIND DIR 150 T SPD 22 KT VISIBILITY 1
 CLOUD X AMOUNT 3 DRY 15.2 MET 11.4 DEPTH 1652 H

DEPTH (M)	TEMPERATURE (C)	SALINITY (PPT)	SIGMA-T (DYN M)	DELTA-T
0	14.82	32.12	23.84	0.000
1	14.83	32.13	23.84	0.019
2	14.84	32.14	23.85	0.038
3	14.85	32.15	23.86	0.057
4	14.86	32.16	23.87	0.076
5	14.87	32.17	23.88	0.095
10	14.88	32.18	23.89	0.114
20	14.89	32.19	23.90	0.133
30	14.90	32.20	23.91	0.152
40	14.91	32.21	23.92	0.171
50	14.92	32.22	23.93	0.190
100	14.93	32.23	23.94	0.209
200	14.94	32.24	23.95	0.228
300	14.95	32.25	23.96	0.247
400	14.96	32.26	23.97	0.266
500	14.97	32.27	23.98	0.285
600	14.98	32.28	23.99	0.304
700	14.99	32.29	24.00	0.323
800	15.00	32.30	24.01	0.342
900	15.01	32.31	24.02	0.361
1000	15.02	32.32	24.03	0.380
1100	15.03	32.33	24.04	0.399
1200	15.04	32.34	24.05	0.418
1300	15.05	32.35	24.06	0.437
1400	15.06	32.36	24.07	0.456
1500	15.07	32.37	24.08	0.475



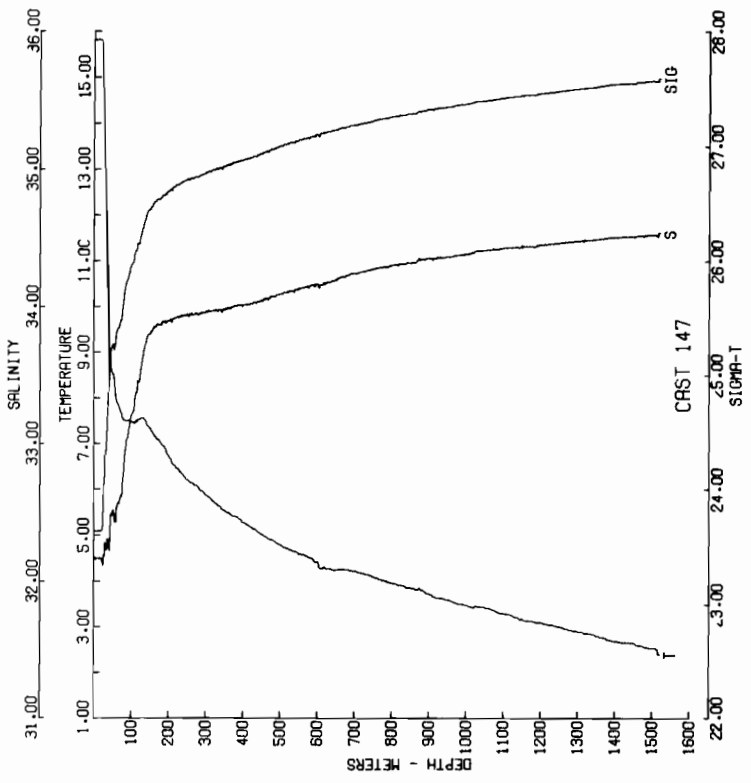
CAST 07-06-CU-145 DATE 20 SEP 71 TIME 0931 GMT
 LAT 17 06 20 LONG 125 13 44 WEATHER 1 SEA STATE 4
 BAROMETER 32.16 WIND DIR 180 T SPD 16 KT VISIBILITY 6
 CLOUD X AMOUNT 9 DRY 15.5 MET 14.2 DEPTH 1621 H

DEPTH (M)	TEMPERATURE (C)	SALINITY (PPT)	SIGMA-T (DYN M)	DELTA-T
0	15.17	32.17	23.17	0.000
5	15.16	32.17	23.17	.021
10	12.15	32.17	23.17	.041
20	12.14	32.17	23.17	.083
30	11.91	32.15	23.15	.103
40	11.93	32.15	23.15	.123
50	11.43	32.15	23.15	.171
75	8.44	32.15	23.15	.270
100	8.34	32.15	23.15	.284
150	7.34	32.15	23.15	.349
200	6.42	33.91	25.35	.465
300	5.33	33.98	25.80	.604
400	4.68	34.50	26.68	.772
500	3.91	34.57	27.49	1.148
700	3.01	34.57	27.49	1.318
1000	2.47	34.53	27.43	1.383
1500	2.47	34.53	27.43	1.665



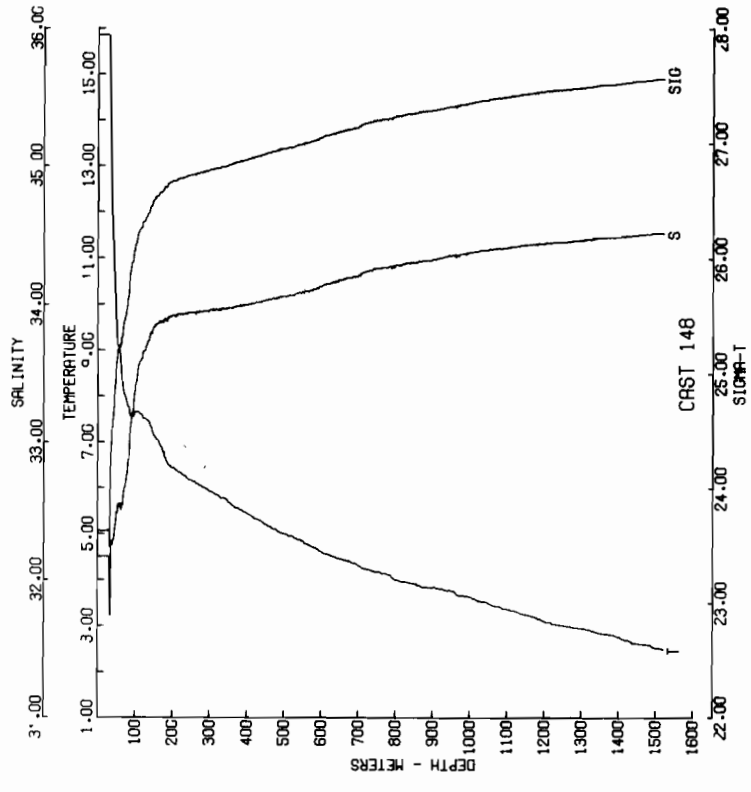
CAST 07-06-CU-146 DATE 20 SEP 71 TIME 1149 GMT
 LAT 17 06 20 LONG 125 13 44 WEATHER 1 SEA STATE 4
 BAROMETER 32.15 WIND DIR 155 T SPD 14.9 MET 14.9
 CLOUD X AMOUNT 9 DRY 15.2 MET 14.9 DEPTH 1674 H

DEPTH (M)	TEMPERATURE (C)	SALINITY (PPT)	SIGMA-T (DYN M)	DELTA-T
0	15.81	32.15	23.15	0.000
5	15.80	32.15	23.15	.067
10	12.82	32.15	23.15	.083
20	12.81	32.15	23.15	.145
30	11.97	32.15	23.15	.191
40	11.52	32.15	23.15	.246
50	11.52	32.15	23.15	.256
75	7.48	32.77	23.62	.330
100	7.38	32.77	23.62	.340
150	6.32	33.34	24.10	.474
200	5.92	33.34	24.10	.513
300	4.76	34.08	24.99	.657
400	4.00	34.57	25.74	.832
500	3.48	34.57	25.74	1.107
700	2.54	34.52	25.57	1.367
1000	2.43	34.52	25.57	1.671



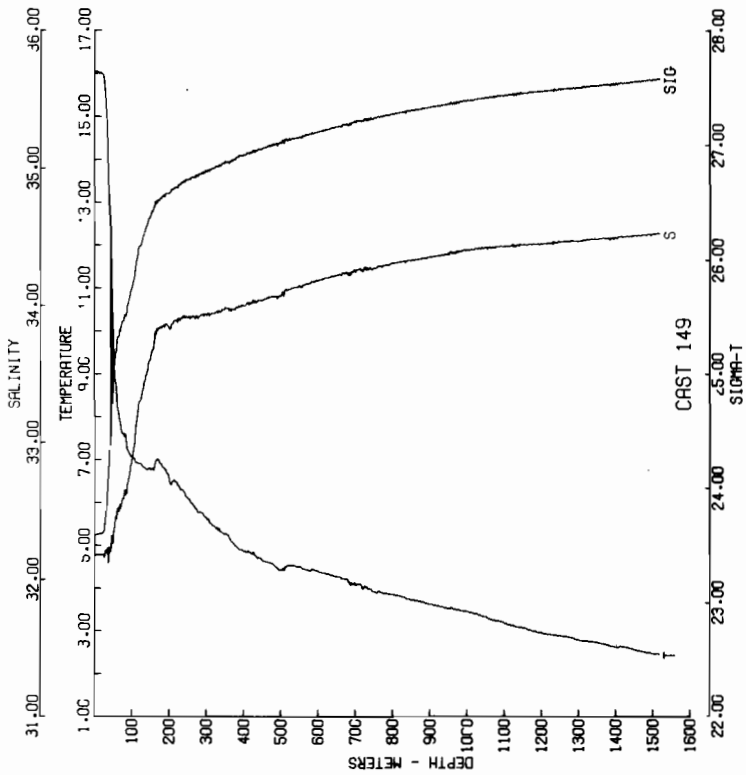
CAST 3PZ-00-147 DATE 20 SEP 73 TIME 1411 GMT
 LAT 47 06.14 LONG 126 01.27 M WEATHER 1
 SURFACE WIND 034 SPD 10.4 KTS VISIB 11.4 M
 BAROMETER 984.3 HGT 15.5 MET 1516 M
 CLOUD 6 AMOUNT 5 CRV 15.5 MET 1516 M

DEPTH (M)	TEMPERATURE (C)	SALINITY (PPT)	SIGMA-T (DM M)	DELTA-T
0	15.85	32.17	23.63	0.000
10	15.86	32.17	23.63	.021
15	15.87	32.17	23.63	.064
20	15.86	32.17	23.63	.069
25	15.86	32.15	23.63	.089
30	15.86	32.15	23.63	.114
35	15.86	32.15	23.63	.149
40	15.85	32.15	23.63	.184
45	15.85	32.15	23.63	.219
50	15.85	32.15	23.63	.254
55	15.85	32.15	23.63	.289
60	15.85	32.15	23.63	.324
65	15.85	32.15	23.63	.359
70	15.85	32.15	23.63	.394
75	15.85	32.15	23.63	.429
80	15.85	32.15	23.63	.464
85	15.85	32.15	23.63	.499
90	15.85	32.15	23.63	.534
95	15.85	32.15	23.63	.569
100	15.85	32.15	23.63	.604
105	15.85	32.15	23.63	.639
110	15.85	32.15	23.63	.674
115	15.85	32.15	23.63	.709
120	15.85	32.15	23.63	.744
125	15.85	32.15	23.63	.779
130	15.85	32.15	23.63	.814
135	15.85	32.15	23.63	.849
140	15.85	32.15	23.63	.884
145	15.85	32.15	23.63	.919
150	15.85	32.15	23.63	.954
155	15.85	32.15	23.63	.989
160	15.85	32.15	23.63	1.024
165	15.85	32.15	23.63	1.059
170	15.85	32.15	23.63	1.094
175	15.85	32.15	23.63	1.129
180	15.85	32.15	23.63	1.164
185	15.85	32.15	23.63	1.199
190	15.85	32.15	23.63	1.234
195	15.85	32.15	23.63	1.269
200	15.85	32.15	23.63	1.304
205	15.85	32.15	23.63	1.339
210	15.85	32.15	23.63	1.374
215	15.85	32.15	23.63	1.409
220	15.85	32.15	23.63	1.444
225	15.85	32.15	23.63	1.479
230	15.85	32.15	23.63	1.514
235	15.85	32.15	23.63	1.549
240	15.85	32.15	23.63	1.584
245	15.85	32.15	23.63	1.619
250	15.85	32.15	23.63	1.654
255	15.85	32.15	23.63	1.689
260	15.85	32.15	23.63	1.724
265	15.85	32.15	23.63	1.759
270	15.85	32.15	23.63	1.794
275	15.85	32.15	23.63	1.829
280	15.85	32.15	23.63	1.864
285	15.85	32.15	23.63	1.899
290	15.85	32.15	23.63	1.934
295	15.85	32.15	23.63	1.969
300	15.85	32.15	23.63	2.004
305	15.85	32.15	23.63	2.039
310	15.85	32.15	23.63	2.074
315	15.85	32.15	23.63	2.109
320	15.85	32.15	23.63	2.144
325	15.85	32.15	23.63	2.179
330	15.85	32.15	23.63	2.214
335	15.85	32.15	23.63	2.249
340	15.85	32.15	23.63	2.284
345	15.85	32.15	23.63	2.319
350	15.85	32.15	23.63	2.354
355	15.85	32.15	23.63	2.389
360	15.85	32.15	23.63	2.424
365	15.85	32.15	23.63	2.459
370	15.85	32.15	23.63	2.494
375	15.85	32.15	23.63	2.529
380	15.85	32.15	23.63	2.564
385	15.85	32.15	23.63	2.599
390	15.85	32.15	23.63	2.634
395	15.85	32.15	23.63	2.669
400	15.85	32.15	23.63	2.704
405	15.85	32.15	23.63	2.739
410	15.85	32.15	23.63	2.774
415	15.85	32.15	23.63	2.809
420	15.85	32.15	23.63	2.844
425	15.85	32.15	23.63	2.879
430	15.85	32.15	23.63	2.914
435	15.85	32.15	23.63	2.949
440	15.85	32.15	23.63	2.984
445	15.85	32.15	23.63	3.019
450	15.85	32.15	23.63	3.054
455	15.85	32.15	23.63	3.089
460	15.85	32.15	23.63	3.124
465	15.85	32.15	23.63	3.159
470	15.85	32.15	23.63	3.194
475	15.85	32.15	23.63	3.229
480	15.85	32.15	23.63	3.264
485	15.85	32.15	23.63	3.299
490	15.85	32.15	23.63	3.334
495	15.85	32.15	23.63	3.369
500	15.85	32.15	23.63	3.404
505	15.85	32.15	23.63	3.439
510	15.85	32.15	23.63	3.474
515	15.85	32.15	23.63	3.509
520	15.85	32.15	23.63	3.544
525	15.85	32.15	23.63	3.579
530	15.85	32.15	23.63	3.614
535	15.85	32.15	23.63	3.649
540	15.85	32.15	23.63	3.684
545	15.85	32.15	23.63	3.719
550	15.85	32.15	23.63	3.754
555	15.85	32.15	23.63	3.789
560	15.85	32.15	23.63	3.824
565	15.85	32.15	23.63	3.859
570	15.85	32.15	23.63	3.894
575	15.85	32.15	23.63	3.929
580	15.85	32.15	23.63	3.964
585	15.85	32.15	23.63	3.999
590	15.85	32.15	23.63	4.034
595	15.85	32.15	23.63	4.069
600	15.85	32.15	23.63	4.104
605	15.85	32.15	23.63	4.139
610	15.85	32.15	23.63	4.174
615	15.85	32.15	23.63	4.209
620	15.85	32.15	23.63	4.244
625	15.85	32.15	23.63	4.279
630	15.85	32.15	23.63	4.314
635	15.85	32.15	23.63	4.349
640	15.85	32.15	23.63	4.384
645	15.85	32.15	23.63	4.419
650	15.85	32.15	23.63	4.454
655	15.85	32.15	23.63	4.489
660	15.85	32.15	23.63	4.524
665	15.85	32.15	23.63	4.559
670	15.85	32.15	23.63	4.594
675	15.85	32.15	23.63	4.629
680	15.85	32.15	23.63	4.664
685	15.85	32.15	23.63	4.699
690	15.85	32.15	23.63	4.734
695	15.85	32.15	23.63	4.769
700	15.85	32.15	23.63	4.804
705	15.85	32.15	23.63	4.839
710	15.85	32.15	23.63	4.874
715	15.85	32.15	23.63	4.909
720	15.85	32.15	23.63	4.944
725	15.85	32.15	23.63	4.979
730	15.85	32.15	23.63	5.014
735	15.85	32.15	23.63	5.049
740	15.85	32.15	23.63	5.084
745	15.85	32.15	23.63	5.119
750	15.85	32.15	23.63	5.154
755	15.85	32.15	23.63	5.189
760	15.85	32.15	23.63	5.224
765	15.85	32.15	23.63	5.259
770	15.85	32.15	23.63	5.294
775	15.85	32.15	23.63	5.329
780	15.85	32.15	23.63	5.364
785	15.85	32.15	23.63	5.399
790	15.85	32.15	23.63	5.434
795	15.85	32.15	23.63	5.469
800	15.85	32.15	23.63	5.504
805	15.85	32.15	23.63	5.539
810	15.85	32.15	23.63	5.574
815	15.85	32.15	23.63	5.609
820	15.85	32.15	23.63	5.644
825	15.85	32.15	23.63	5.679
830	15.85	32.15	23.63	5.714
835	15.85	32.15	23.63	5.749
840	15.85	32.15	23.63	5.784
845	15.85	32.15	23.63	5.819
850	15.85	32.15	23.63	5.854
855	15.85	32.15	23.63	5.889
860	15.85	32.15	23.63	5.924
865	15.85	32.15	23.63	5.959
870	15.85	32.15	23.63	5.994
875	15.85	32.15	23.63	6.029
880	15.85	32.15	23.63	6.064
885	15.85	32.15	23.63	6.099
890	15.85	32.15	23.63	6.134
895	15.85	32.15	23.63	6.169
900	15.85	32.15	23.63	6.204
905	15.85	32.15	23.63	6.239
910	15.85	32.15	23.63	6.274
915	15.85	32.15	23.63	6.309
920	15.85	32.15	23.63	6.344
925	15.85	32.15	23.63	6.379
930	15.85	32.15	23.63	6.414
935	15.85	32.15	23.63	6.449
940	15.85	32.15	23.63	6.484
945	15.85	32.15	23.63	6.519
950	15.85	32.15	23.63	6.554
955	15.85	32.15	23.63	6.589
960	15.85	32.15	23.63	6.624
965	15.85	32.15	23.63	6.659
970	15.85	32.15	23.63	6.694
975	15.85	32.15	23.63	6.729
980	15.85	32.15	23.63	6.764
985	15.85	32.15	23.63	6.799
990	15.85	32.15	23.63	6.834
995	15.85	32.15	23.63	6.869
1000	15.85	32.15	23.63	6.904



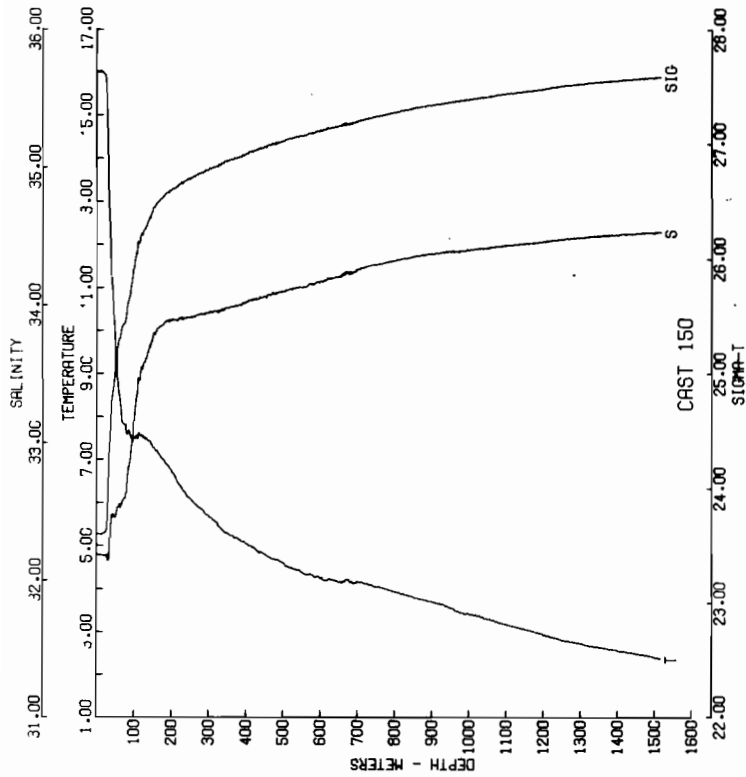
CAST 4PZ-00-148 DATE 20 SEP 73 TIME 1650 GMT
 LAT 47 06.14 LONG 126 01.27 M WEATHER 1
 SURFACE WIND 034 SPD 10.4 KTS VISIB 11.4 M
 BAROMETER 984.3 HGT 15.5 MET 1516 M
 CLOUD 6 AMOUNT 5 CRV 15.5 MET 1516 M

DEPTH (M)	TEMPERATURE (C)	SALINITY (PPT)	SIGMA-T (DM M)	DELTA-T
0	15.85	32.17	23.63	0.000
10	15.86	32.17	23.63	.021
15	15.87	32.17	23.63	.064
20	15.86	32.17	23.63	.069
25	15.86	32.15	23.63	.089
30	15.86	32.15	23.63	.114
35	15.86	32.15	23.63	.149
40	15.86	32.15	23.63	.184
45	15.86	32.15	23.63	.219
50	15.86	32.15	23.63	.254
55	15.86	32.15	23.63	.289
60	15.86	32.15	23.63	.324
65	15.86	32.15	23.63	.359
70	15.86	32.15	23.63	.394
75	15.86	32.15	23.63	.429
80	15.86	32.15	23.63	.464
85	15.86	32.15	23.63	.499
90	15.86	32.15	23.63	.534
95	15.86	32.15	23.63	.569
100	15.86	32.15	23.63	.604
105	15.86	32.15	23.63	.639
110	15.86			



CAST 149-7-00-149 DATE 20 SEP 73 TIME 1924 GMT
 LAT 47.9N LONG 125.58W WEATHER 2
 SURFACE WIND DIR 232N SPEED 11.0 MET PER 15.0
 CLOUD 8 AMOUNT 2 DAY 14.8 DEPTH 2542 M

DEPTH (M)	TEMPERATURE (C)	SALINITY (PSPT)	SIGMA-T (DYN M)
0	16.89	35.17	23.58
2	16.86	35.26	23.58
10	16.94	35.16	23.60
15	16.92	35.18	23.60
20	16.91	35.19	23.60
30	16.91	35.21	23.55
40	14.51	35.22	23.30
50	12.90	35.20	22.80
75	11.71	35.59	22.46
100	7.97	35.97	22.75
150	5.78	36.01	22.75
200	5.00	36.03	22.72
300	4.72	36.07	22.64
400	4.31	36.28	22.54
500	3.71	36.41	22.47
750	2.46	36.53	22.35
1000	2.40	36.53	22.30
1500	1.17	36.53	22.27
1600	1.02	36.53	22.27



CAST 150-7-00-150 DATE 20 SEP 73 TIME 2212 GMT
 LAT 47.9N LONG 125.58W WEATHER 2
 SURFACE WIND DIR 232N SPEED 11.0 MET PER 15.0
 CLOUD 8 AMOUNT 2 DAY 15.8 DEPTH 2595 M

DEPTH (M)	TEMPERATURE (C)	SALINITY (PSPT)	SIGMA-T (DYN M)
0	16.02	32.18	23.60
2	16.02	32.18	23.60
10	16.03	32.18	23.60
15	16.03	32.18	23.60
20	15.97	32.18	23.60
30	15.77	32.18	23.61
40	15.37	32.18	23.82
50	12.70	32.47	23.99
75	11.39	32.47	23.76
100	7.81	32.88	23.06
150	7.30	33.15	22.92
200	6.67	33.15	22.84
300	6.03	33.10	22.70
400	5.40	33.30	22.63
500	4.77	33.40	22.53
750	3.37	33.63	22.39
1000	2.99	33.63	22.33
1500	1.51	33.63	22.27
1600	1.37	33.63	22.27