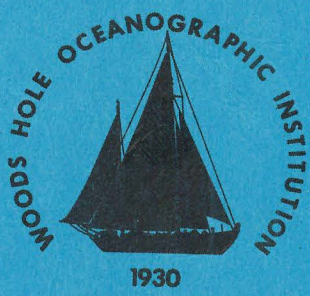


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WHOI-79-73

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STD OBSERVATIONS IN THE SOUTHWEST ATLANTIC
FROM CRUISE 16, LEG 9 OF THE R/V CONRAD
AND CRUISE 7-75 OF THE ARA ISLAS ORCADAS

by

D. T. Georgi, A. F. Amos,
K. E. Draganovic, M. Raymer

August 1979

TECHNICAL REPORT

*Prepared for the National Science Foundation
under Grants OCE76-81149 and OCE79-04545.*

WOODS HOLE OCEANOGRAPHIC INSTITUTION

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1 February 1980

ERRATA

Tabulated below are the revised R/V CONRAD STD station positions. The positions given in the WHOI Technical Report 79-73 were in error due to a confusion between local and Greenwich mean time.

D. J. George

REVISED CO-16-09 NAVIGATION (JAN. 20, 1980)

STATION	DATE	GMT	LATITUDE	LONGITUDE	PDR DEPTH(M)
160	26/ 3/73	08:57	-41 56.0	-57 47.3	451
161	26/ 3/73	12:33	-41 59.9	-57 38.2	914
162	26/ 3/73	16:30	-42 12.5	-57 23.7	1485
163	26/ 3/73	20:14	-42 20.7	-57 6.3	1986
164	26/ 3/73	23:27	-42 22.3	-56 57.9	2463
165	27/ 3/73	04:39	-42 36.7	-56 52.1	3076
166	27/ 3/73	09:30	-42 46.8	-56 43.1	3588
167	27/ 3/73	16:06	-42 57.7	-56 27.1	4321
168	27/ 3/73	21:23	-43 5.7	-56 18.8	4662
169	28/ 3/73	07:54	-43 11.2	-56 8.6	4768
170	28/ 3/73	13:24	-43 28.4	-55 45.3	5138
171	28/ 3/73	23:59	-44 1.7	-54 41.5	5510
172	29/ 3/73	17:50	-44 45.8	-52 44.2	5883
173	30/ 3/73	08:29	-45 20.5	-52 5.0	5981
174	31/ 3/73	01:22	-45 56.7	-50 2.0	5829
175	1/ 4/73	05:07	-46 28.9	-47 50.7	5647
176	3/ 4/73	02:27	-46 54.4	-39 1.2	5594
177	3/ 4/73	12:13	-47 1.0	-39 51.0	5134
178	4/ 4/73	00:33	-47 3.8	-40 15.6	5616
179	5/ 4/73	09:58	-46 57.0	-44 7.3	5280
180	7/ 4/73	17:59	-49 4.7	-35 20.6	5057
181	8/ 4/73	16:55	-48 53.9	-36 43.0	4960
182	9/ 4/73	09:20	-49 4.8	-36 42.7	5596
183	9/ 4/73	16:16	-49 10.3	-36 44.2	4243
184	10/ 4/73	02:02	-49 7.8	-36 14.1	4620
185	10/ 4/73	07:16	-49 7.3	-35 54.1	5154
186	10/ 4/73	15:47	-48 50.7	-34 52.5	3391
187	10/ 4/73	21:25	-49 3.1	-35 18.4	4908
188	15/ 4/73	14:02	-42 58.9	-47 58.0	5289
189	16/ 4/73	00:24	-42 33.4	-49 0.5	5602
191	16/ 4/73	12:21	-42 0.5	-50 2.3	5750
192	16/ 4/73	23:52	-41 30.3	-51 0.7	5040
193	17/ 4/73	19:17	-40 30.5	-53 5.4	5252
194	19/ 4/73	11:37	-39 33.8	-54 40.3	1885
195	19/ 4/73	15:00	-39 38.0	-54 28.0	2992
196	19/ 4/73	18:19	-39 44.1	-54 13.3	3829
197	20/ 4/73	00:14	-39 58.3	-53 51.5	4561

WHOI-79-73

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WOODS HOLE OCEANOGRAPHIC INSTITUTION
Woods Hole, Massachusetts 02543

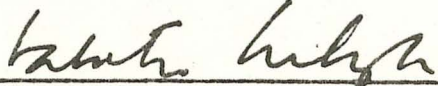
August 1979

TECHNICAL REPORT

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Approved for Distribution


Valentine Worthington, Chairman
Department of Physical Oceanography

MBL/WHOI



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Abstract

Continuous salinity-temperature-depth (STD) data from two cruises in the South Atlantic are presented in both tabular and graphic form. Thirty-seven of the stations were made during the R/V CONRAD cruise 16, leg 9, March 29 to April 23, 1973 and 20 stations on the ARA ISLAS ORCADAS cruise 7-75, October 30 to December 20, 1975.

Introduction

Continuous salinity-temperature-depth (STD) data from two cruises in the South Atlantic are reported. The primary objective of the R/V CONRAD cruise 16, leg 9 (March 29 to April 23, 1973) was to obtain data for hydrographic studies of the Argentine Basin. Two parallel STD sections were taken crossing the continental shelf and slope. Additional stations were concentrated over the Zapiola Ridge and near the Falkland Gap. Locations of the 37 STD stations are given in Figure 1.

The primary scientific objectives of the ARA ISLAS ORCADAS cruise 7-75 (October 30 to December 20, 1975) were geological and geophysical in nature (Warnke, et al. 1976). Hydrographic data was collected on an ancillary basis. The STD data is primarily from the regions just east of the South Sandwich Islands, from the South Georgia Basin and the Malvinas Chasm. The locations of the 20 STD stations are given in Figure 2.

Data Collection and Processing Methods

The same STD system (Plessey Model 9040) was used on both cruises. The STD data was recorded on magnetic tape by a digital data logger and read at Lamont-Doherty Geological Observatory. All of the CONRAD STD data was processed from the magnetic tape except for stations 196 and 197 and portions of stations 186 and 187 which were unreadable and had to be digitized from analog data plots. The digital data logger malfunctioned during the entire AIO cruise, and the entire STD data set had to be digitized from the analog plots.

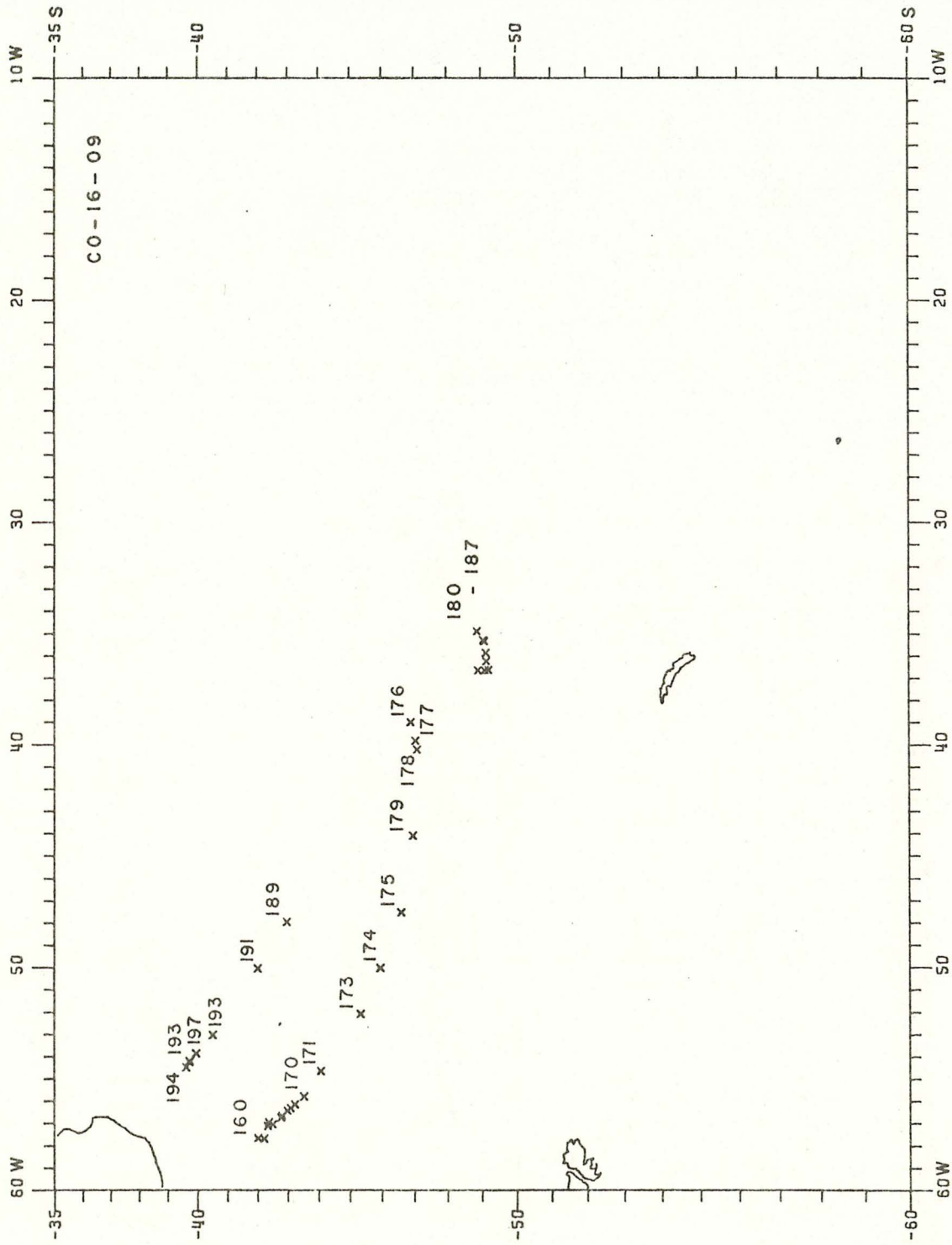


Figure 1. Location of STD stations made during R/V CONRAD cruise 16-09.

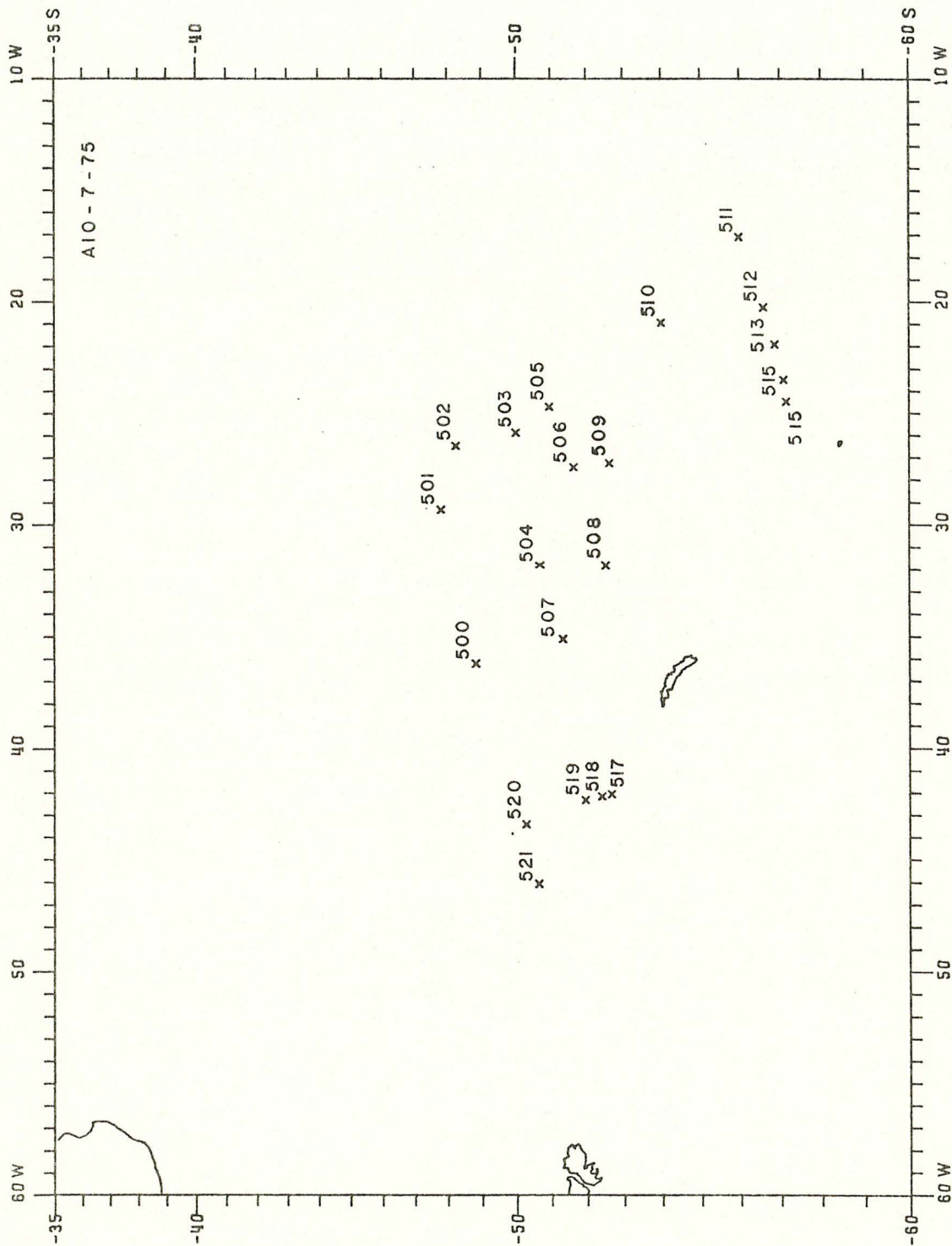


Figure 2. Location of STD stations made during ARA ISLAS ORCADAS cruise 7-75.

During the CONRAD cruise, temperature and salinity calibration data was collected with a surface-activated sampler attached to the STD underwater package (Gerard and Amos, 1968). This system permitted a maximum of 9 water samples to be collected at each STD station. During the AIO cruise, calibration data was obtained from Nansen bottles placed on the STD wire.

After the initial data processing, the STD data was brought into agreement with the calibration information. Based on 28 thermometric depths, CONRAD STD depths were increased uniformly by adding 4 m and temperature based on 97 thermometric temperatures increased by $.01^{\circ}\text{C}$. Most of the unprotected thermometry data from the AIO cruise was not suitable for determining an STD depth correction, because the depth of the STD at the time of the Nansen bottle reversal was generally uncertain. For the AIO STD data, STD depths were scaled by a constant factor (.9795) which was determined from a combination of precision depth recorder readings at each of the stations and 6 unprotected thermometric depths. Because of the small quantity of suitable thermometric temperature data available for comparison with STD temperatures, no corrections were applied to the STD temperature data.

The correction of STD salinities is usually more complicated than the correction of the STD temperature and depth data. The Plessey STD salinity sensors have both a constant offset (surface salinity error), which changes with time, and a complicated pressure-dependent error. The form of the pressure-dependent error is often the same for a number of stations. Thus, the two errors can be corrected by applying a pressure-dependent salinity correction, generally a polynomial of 3rd or 4th order determined from an ensemble of calibration data, and subsequent adjustment of the constant term separately for each station to minimize the difference between the STD and the bottle salinities.

Assorted problems complicated the STD salinity correction. Inter-comparison of deep and bottom water salinities from the CONRAD bottle data with South Atlantic GEOSECS data indicated that the salinities were

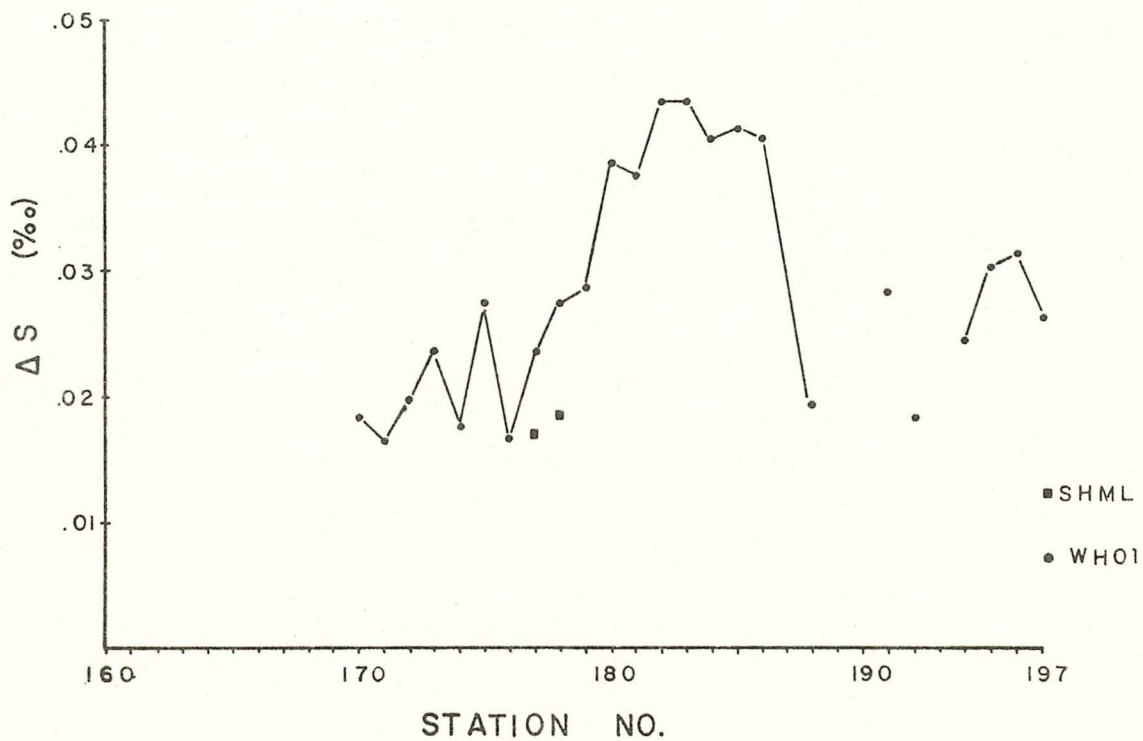


Figure 3. Mean salinity difference, backup-shipboard determined salinities, for CONRAD STD stations.

low by .02 to .03 ‰. Backup salinity samples were available for 24 of 37 CONRAD stations. These samples were run at the Woods Hole Oceanographic Institution and at the Sandy Hook Marine Laboratories. These backup samples indicated that the shipboard salinity determinations were low by .02 to .04 ‰ (see Figure 3). However, backup salinity samples were not available for all the CONRAD STD stations; hence, the final adjustment of the constant coefficient in the polynomial corrections was chosen to bring the STD potential-temperature salinity (θ -S) relationship into agreement with the mean deep water θ -S curve determined from the GEOSECS data.

The GEOSECS Argentine Basin data (stations 64, 66, 67, 68, 69, and 70) exhibit an extremely tight, nearly linear θ -S relationship for deep and bottom waters colder than 1.0°C (Figure 4). This data is thus well suited for use as historic calibration data. A similar curve was constructed from the GEOSECS stations in the central South Atlantic/Antarctic Ocean (stations 81, 82, 83, 84, 85, 86, 87, 88, and 89). For this θ -S relationship, the salinity is fresher at all potential temperatures, but only .01 ‰ for potential temperatures less than 0.0°C. The stations used to construct this curve are generally situated further to the south and east of the AIO STD stations.

The laboratory salinometer used during the AIO cruise had a defective temperature compensation circuit. This introduced a large random error in the salinity determinations. Comparison of the AIO STD salinities with historic data indicated that there was very little pressure-dependent error. It was thus decided to correct the STD data by requiring the deep and bottom water θ -S data to correspond to the GEOSECS data. Most of the AIO stations lie between the two sets of stations used to construct the two deep GEOSECS θ -S relationships; thus there is a .01 ‰ uncertainty introduced into the data, because it is not clear what the appropriate historic θ -S relationship is for the AIO stations.

The use of GEOSECS θ -S relationship in the determinations of the salinity correction (Figure 5) for the AIO and CONRAD STD data is

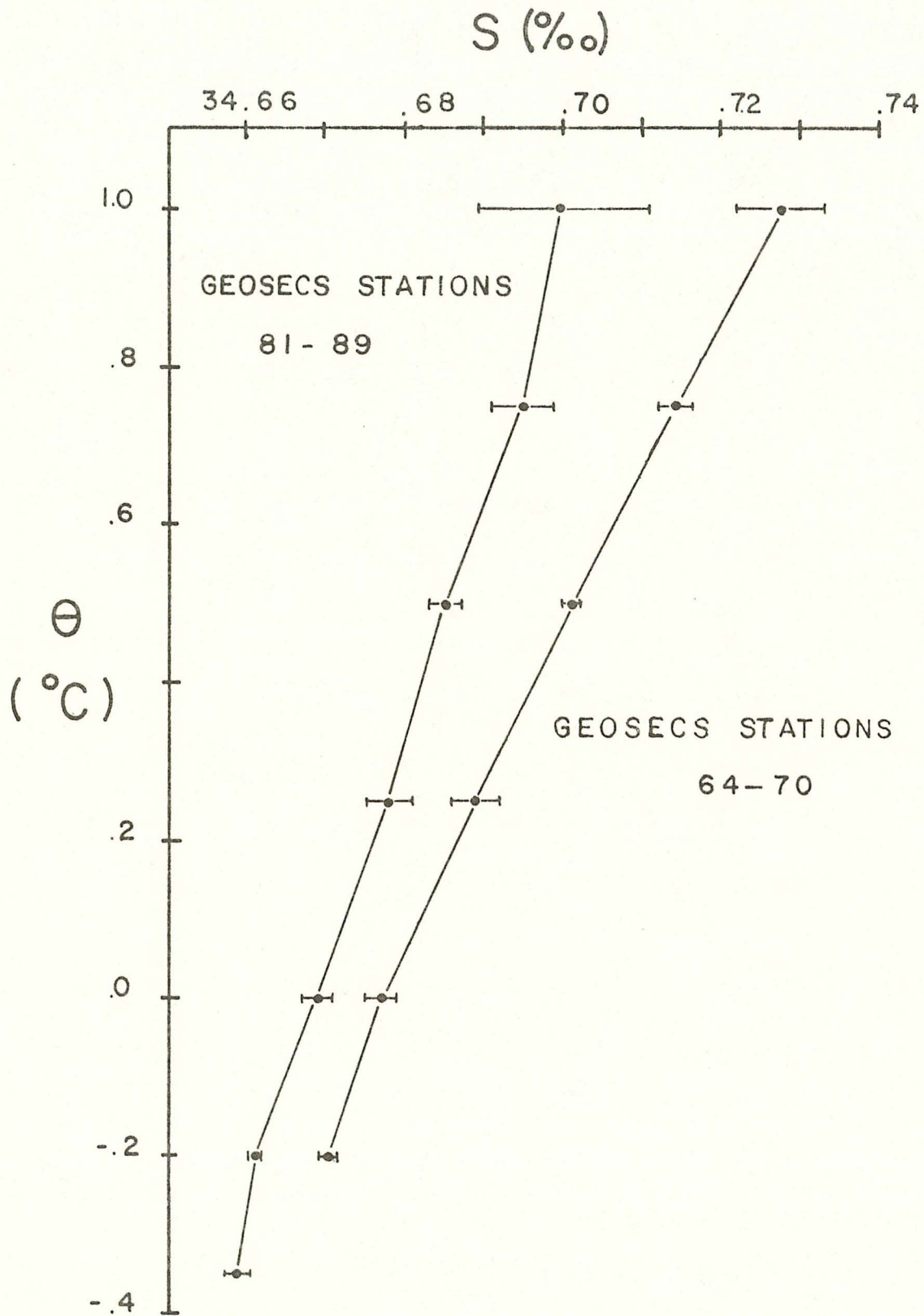


Figure 4. Standard θ -S relationships derived from South Atlantic GEOSECS hydrographic data.

unfortunate, and it certainly compromises the deep and bottom water salinities (particularly for $\theta < 1^\circ\text{C}$). However, this should not be important in the study of shallower water masses. The STD data reported here should be correct to $\pm 0.01^\circ\text{C}$ in temperature, 6m in depth, and salinity in agreement to ± 0.01 ‰ with the GEOSECS deep θ -S relationship.

Data Presentation

In addition to temperature and salinity versus depth plots, standard level listings are given for each station. Listed for each station is the date (day/month/year), the Greenwich Meridian time (hours and minutes), the latitude (degrees and minutes), the longitude (degrees and minutes), and the sonic depth (in meters). Also tabulated is *in situ* temperature, potential-temperature, salinity, and the density parameters σ_0 , σ_2 , and σ_4 for the shallowest, deepest, and standard depths. σ_0 represents the density, $(\rho-1) \cdot 10^3$, a water parcel would have if moved adiabatically to the sea surface, and similarly σ_2 and σ_4 represent the density a parcel would have if moved adiabatically to 2000 and 4000 db, respectively.

Acknowledgements

The National Science Foundation provided the funds (OCE-76-81149 and OCE-79-04545) to process and prepare this report. The hydrographic work aboard the ARA ISLAS ORCADAS was supported by the National Science Foundation, Division of Polar Programs (DPP-74-12838). The outstanding work of Jan Szelag and Peter Bruchhausen during the ISLAS ORCADAS cruise and cooperation of the crew of the R/V CONRAD and the Argentine Naval Hydrographic Service are gratefully acknowledged.

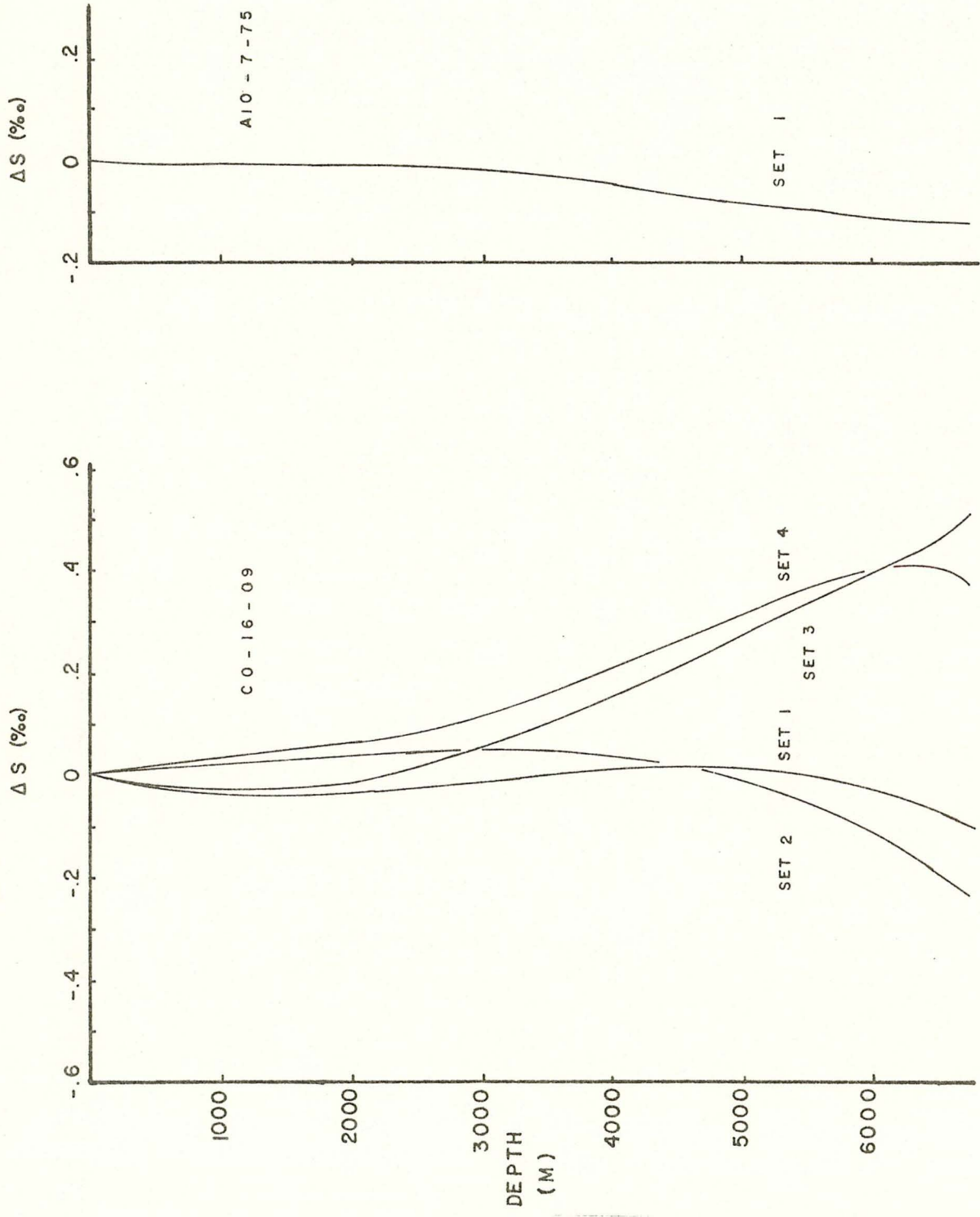


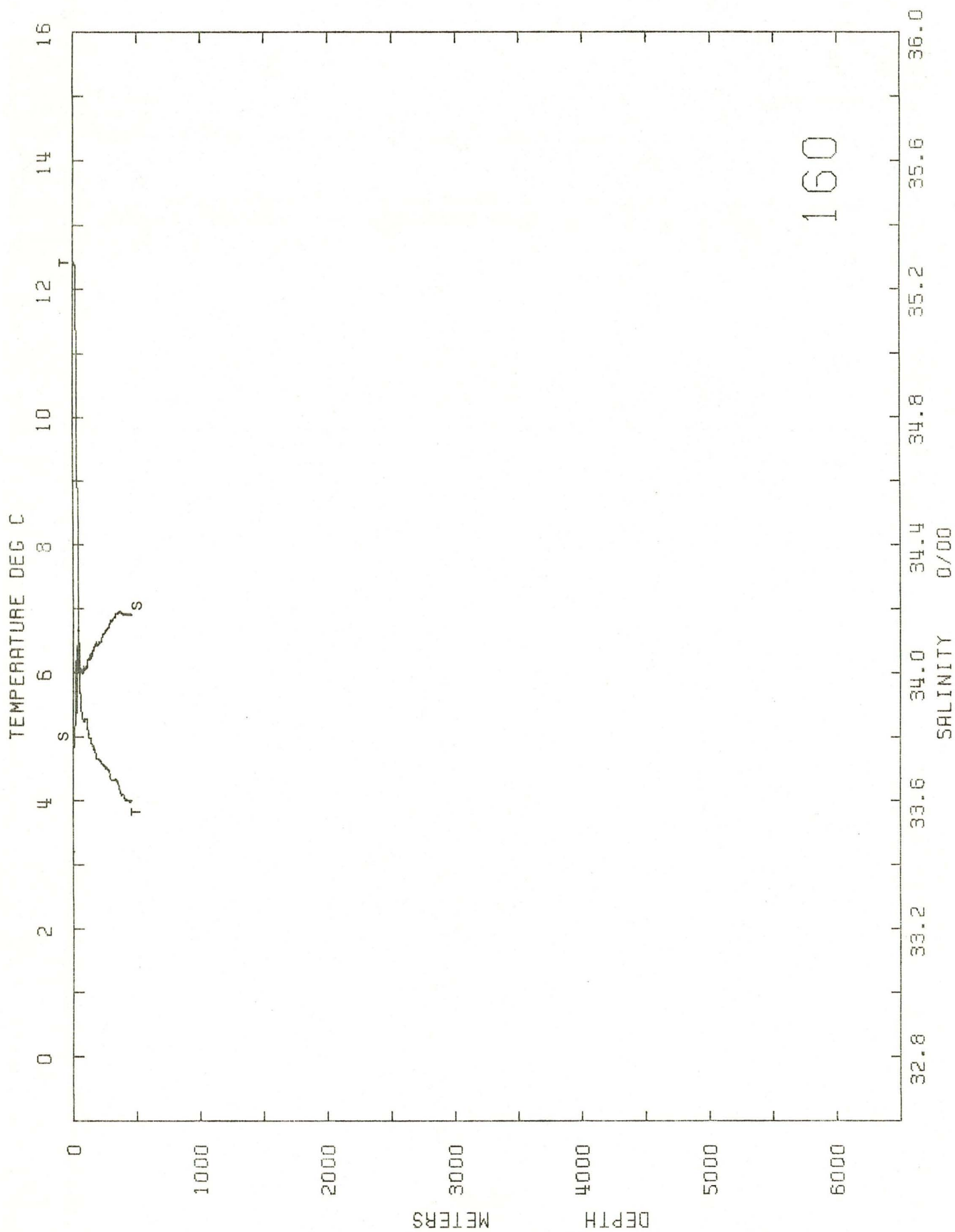
Figure 5. Salinity correction curves for CONRAD STD data: Set 1 for stations 160-167; Set 2 for stations 168-170; Set 3 for stations 171-181; Set 4 for CONRAD 182-197.

Salinity correction curve for AIO STD data, Stations 500-521.

References

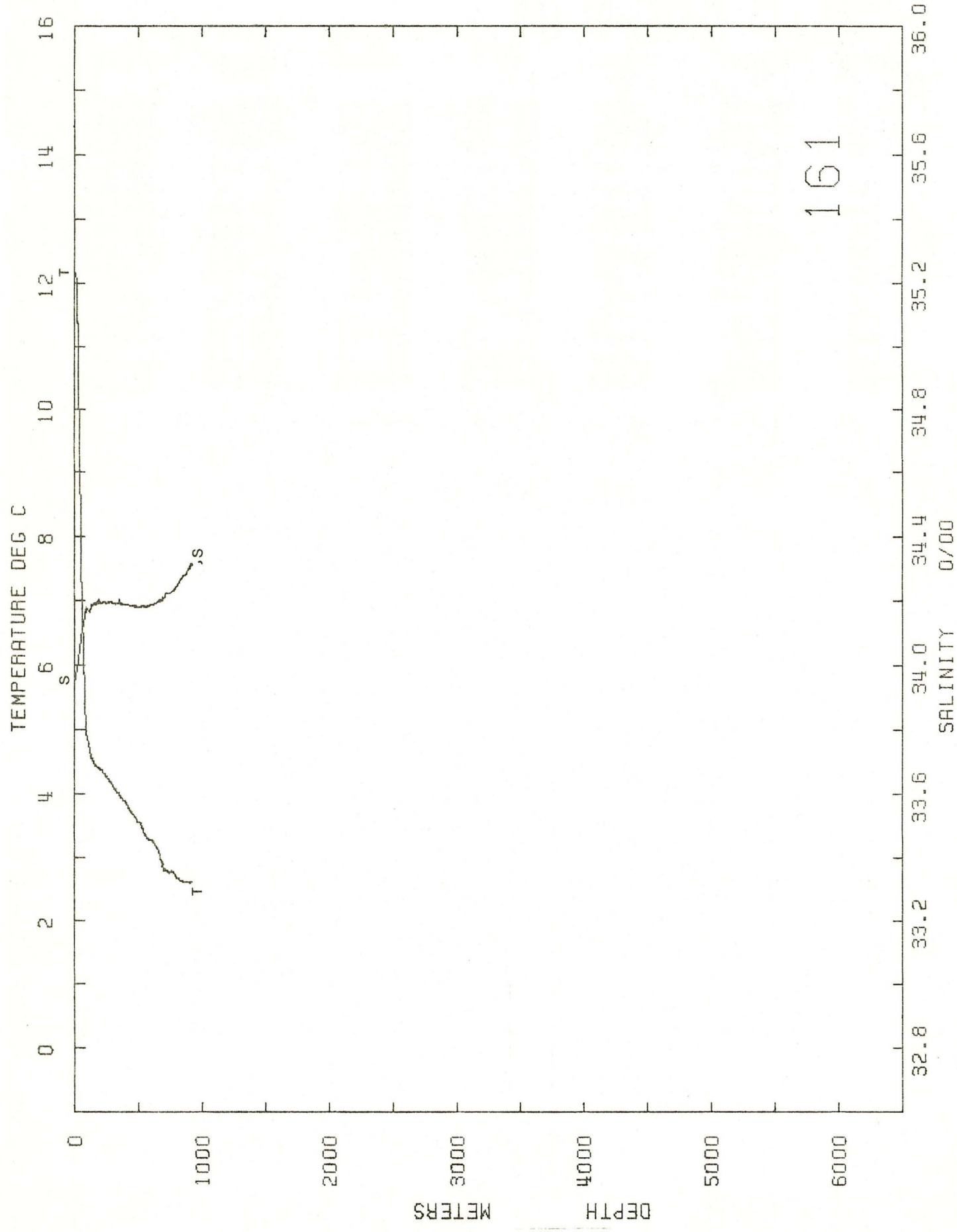
Gerard, R. D. and A. F. Amos (1968). A surface-acutated multiple sampler, Mar. Sci. Instrument, 4, 682-686.

Warnke, D. A., P. Bruchhausen, J. LaBrecque, P. F. Ciesielski, and A. Federman (1976). ARA ISLAS ORCADAS Cruise 7, Antarctic Journal, XI, 70-73.



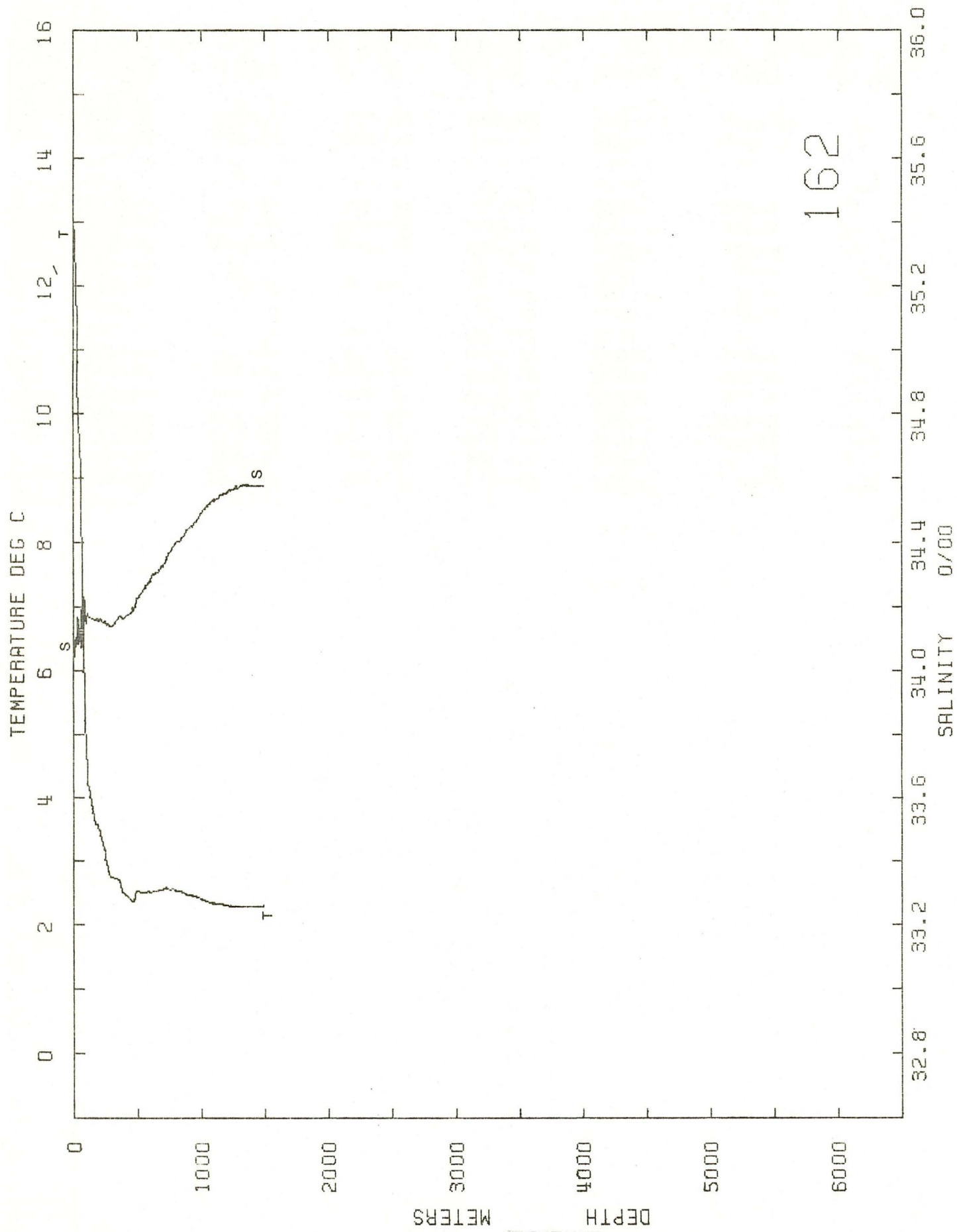
CONRAD 16 STATION 160
03 /26/1973 GMT=0857 42 01.55 57 39.8W PDR= 451

DEPTH	TEMP	THETA	SALT	SIG-0	SIG-2	SIG-4
8	12.390	12.389	33.767	25.578	34.328	42.677
10	12.400	12.399	33.769	25.578	34.327	42.676
20	11.871	11.869	33.937	25.809	34.578	42.944
30	10.241	10.237	33.926	26.094	34.930	43.359
50	5.911	5.907	34.019	26.811	35.845	44.456
75	5.259	5.253	34.009	26.883	35.949	44.590
100	5.279	5.271	34.015	26.885	35.951	44.591
125	4.992	4.983	34.043	26.941	36.021	44.674
150	4.875	4.864	34.054	26.963	36.049	44.707
200	4.638	4.623	34.094	27.021	36.119	44.788
250	4.516	4.498	34.130	27.064	36.167	44.842
300	4.319	4.297	34.163	27.111	36.225	44.909
400	4.066	4.037	34.182	27.154	36.280	44.976
458	4.006	3.973	34.179	27.158	36.288	44.988



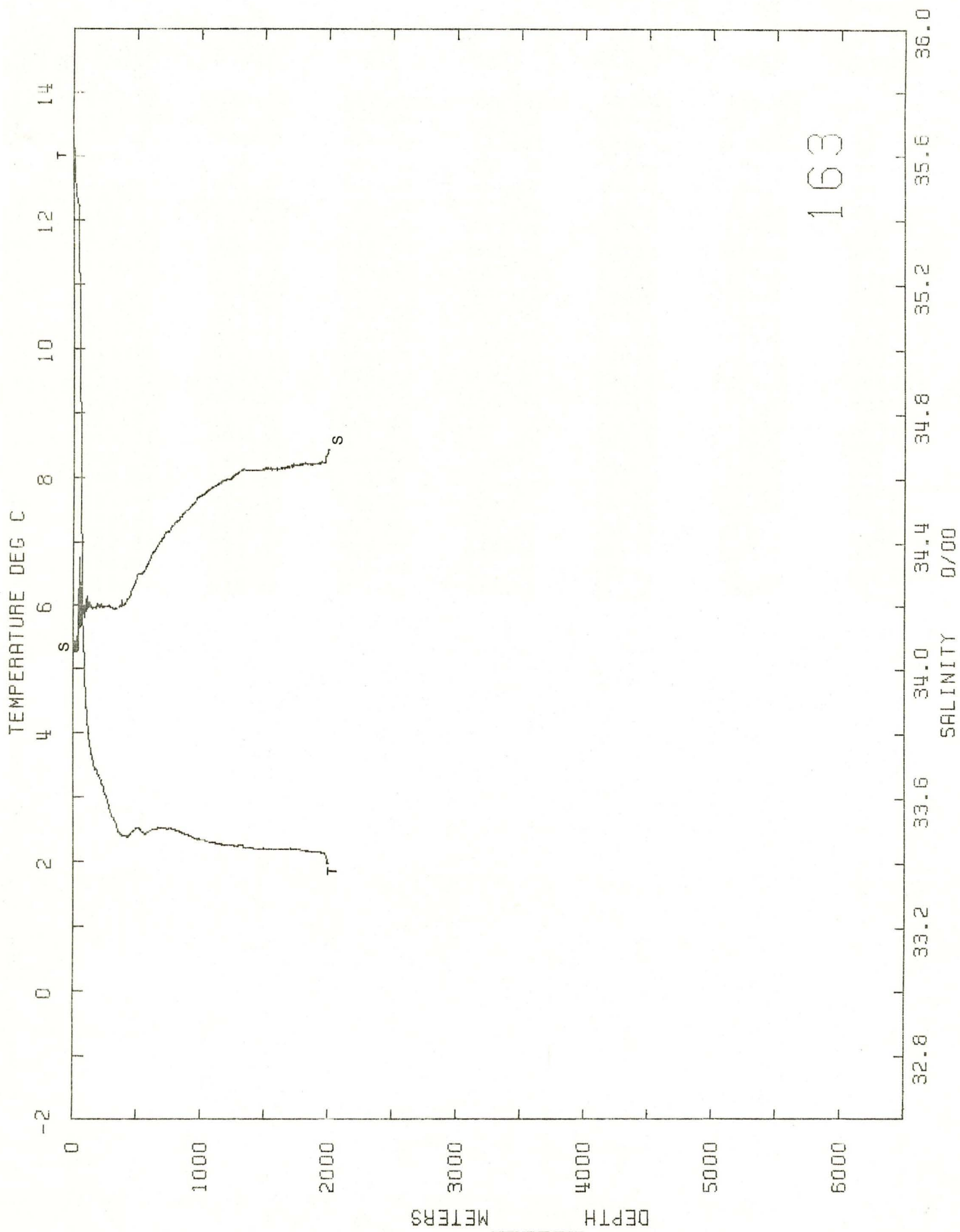
CONRAD 16 STATION 161
 03 /26/1973 GMT=1233 42 12.35 57 40.5W PDR= 914

DEPTH	TEMP	THETA	SALT	SIG-0	SIG-2	SIG-4
10	12.147	12.146	33.959	25.773	34.530	42.886
20	11.020	11.018	34.010	26.022	34.825	43.222
30	7.944	7.941	34.083	26.584	35.520	44.040
50	7.742	7.737	34.088	26.618	35.563	44.093
75	5.815	5.809	34.142	26.920	35.957	44.570
100	4.856	4.848	34.173	27.059	36.143	44.801
125	4.615	4.605	34.176	27.089	36.186	44.855
150	4.494	4.483	34.190	27.113	36.216	44.891
200	4.384	4.369	34.193	27.128	36.237	44.917
250	4.264	4.246	34.194	27.141	36.257	44.943
300	4.133	4.112	34.191	27.153	36.275	44.968
400	3.875	3.847	34.187	27.178	36.314	45.019
500	3.566	3.532	34.180	27.203	36.357	45.077
600	3.279	3.239	34.189	27.238	36.406	45.142
700	2.818	2.773	34.208	27.296	36.489	45.247
800	2.696	2.644	34.245	27.336	36.536	45.300
900	2.620	2.562	34.304	27.390	36.593	45.361
916	2.617	2.558	34.315	27.399	36.603	45.370



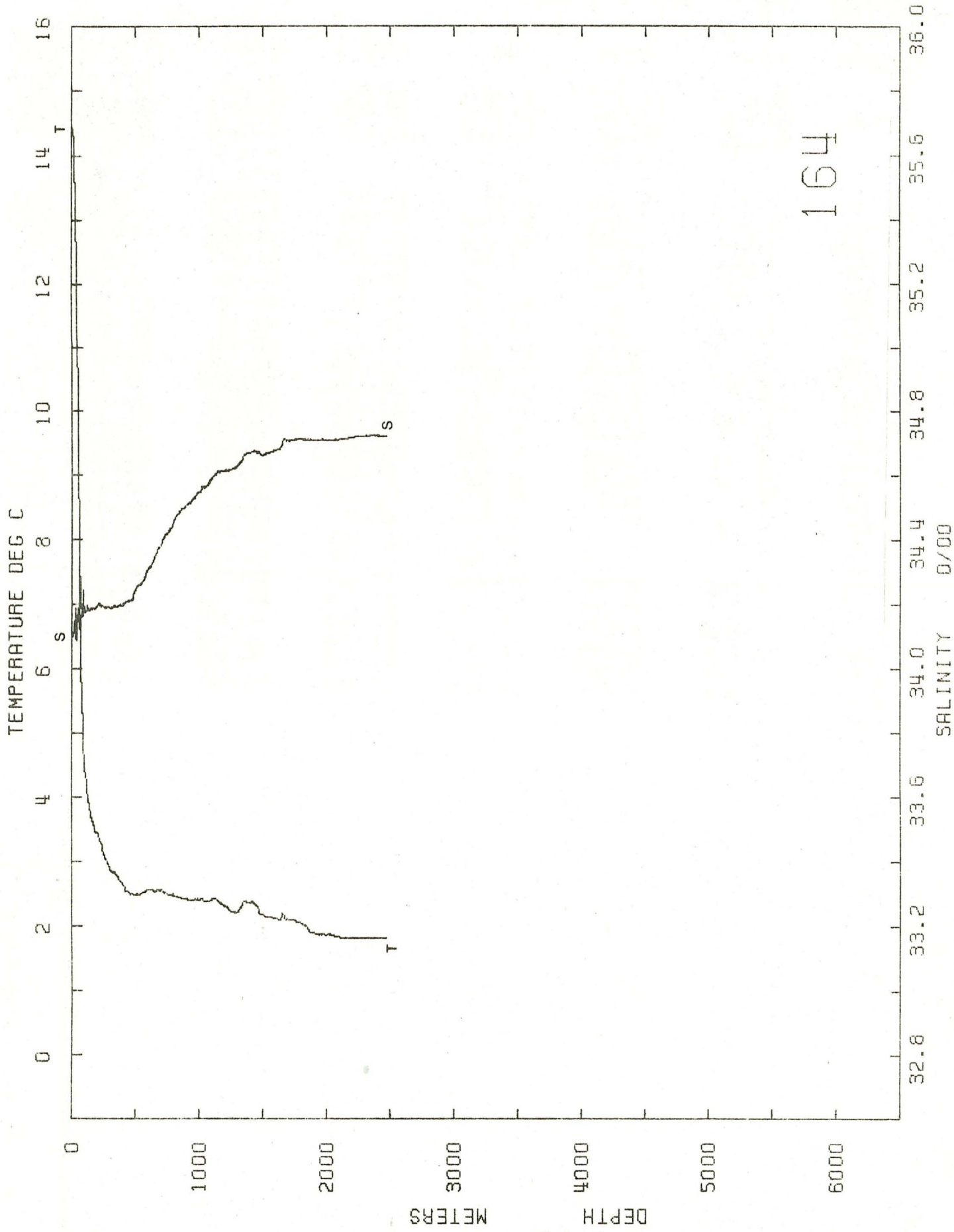
CONRAD 16 STATION 162
 03 /26/1973 GMT=1630 42 20.85 57 06.3W POR=1485

DEPTH	TEMP	THETA	SALT	SIG-0	SIG-2	SIG-4
5	12.881	12.881	34.042	25.695	34.422	42.749
10	12.749	12.748	34.070	25.742	34.475	42.807
20	11.916	11.914	34.098	25.925	34.690	43.052
30	11.071	11.067	34.120	26.098	34.897	43.291
50	9.464	9.458	34.106	26.365	35.232	43.690
75	7.021	7.014	34.173	26.787	35.764	44.324
100	4.743	4.736	34.167	27.067	36.157	44.820
125	3.762	3.754	34.163	27.168	36.308	45.019
150	3.721	3.711	34.163	27.172	36.315	45.028
200	3.479	3.466	34.158	27.192	36.349	45.073
250	3.095	3.079	34.154	27.225	36.403	45.147
300	2.712	2.694	34.161	27.265	36.463	45.226
400	2.407	2.383	34.182	27.308	36.522	45.301
500	2.502	2.472	34.245	27.351	36.560	45.333
600	2.501	2.464	34.286	27.384	36.593	45.366
700	2.554	2.511	34.331	27.416	36.621	45.391
800	2.536	2.485	34.399	27.472	36.678	45.448
900	2.464	2.407	34.444	27.515	36.724	45.497
1000	2.389	2.325	34.494	27.562	36.775	45.551
1100	2.330	2.259	34.531	27.597	36.813	45.592
1200	2.298	2.221	34.556	27.620	36.838	45.618
1300	2.279	2.194	34.573	27.636	36.854	45.637
1400	2.282	2.189	34.576	27.639	36.858	45.641
1491	2.294	2.193	34.575	27.638	36.856	45.638



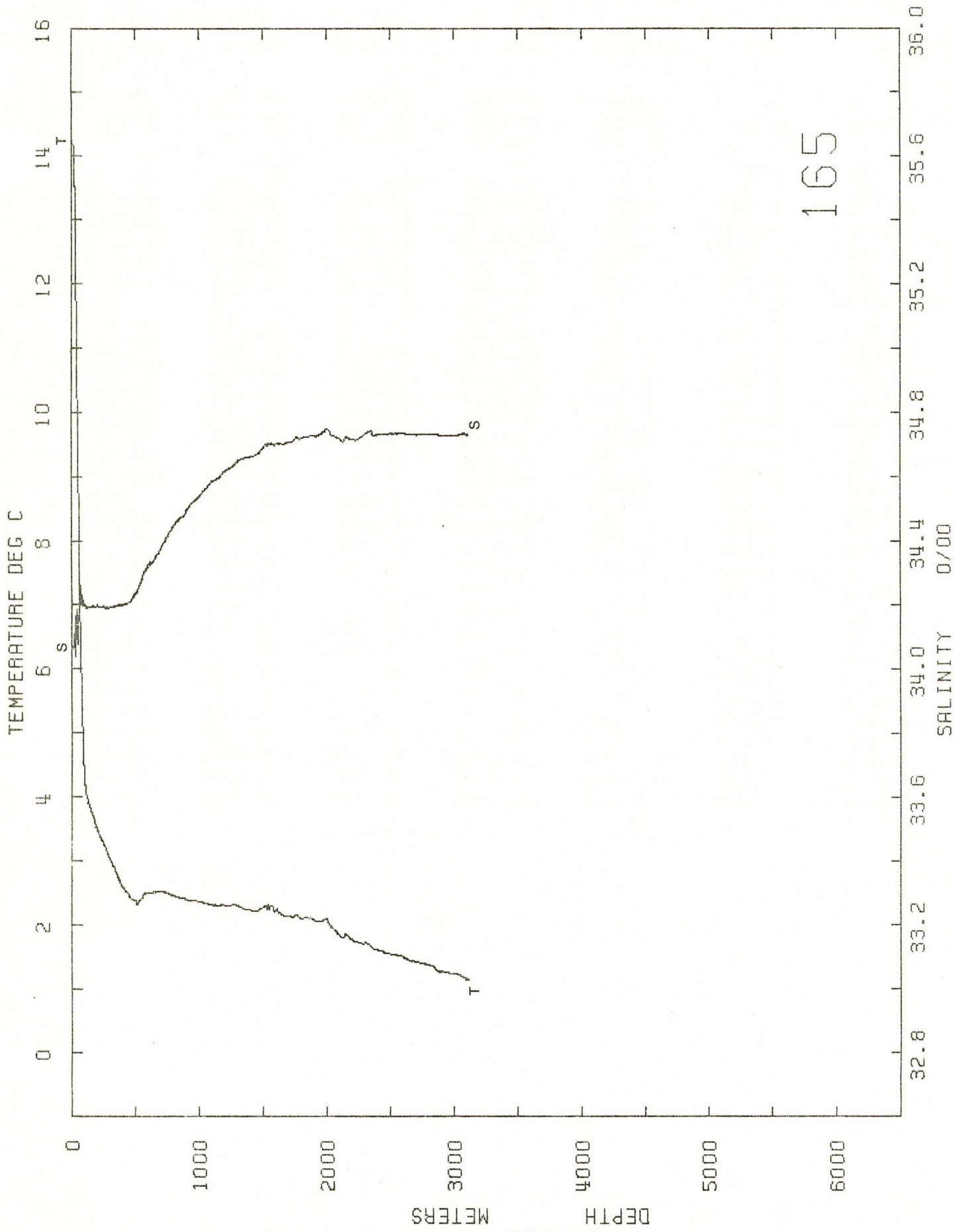
CONRAD 16 STATION 163
 03 /26/1973 GMT=2014 42 22.35 56 57.9W POR=1986

DEPTH	TEMP	THETA	SALT	SIG-0	SIG-2	SIG-4
7	13.072	13.071	34.066	25.675	34.394	42.715
10	12.971	12.969	34.070	25.699	34.423	42.746
20	12.406	12.404	34.087	25.800	34.546	42.890
30	12.297	12.294	34.056	25.820	34.570	42.918
50	9.886	9.881	34.274	26.425	35.273	43.711
75	5.763	5.756	34.210	26.981	36.020	44.634
100	4.511	4.503	34.208	27.126	36.227	44.901
125	3.887	3.878	34.205	27.189	36.323	45.026
150	3.600	3.590	34.191	27.206	36.355	45.074
200	3.322	3.309	34.198	27.239	36.403	45.135
250	3.037	3.021	34.196	27.264	36.444	45.190
300	2.712	2.694	34.192	27.289	36.487	45.250
400	2.402	2.378	34.201	27.324	36.539	45.318
500	2.519	2.489	34.293	27.388	36.595	45.367
600	2.477	2.440	34.348	27.436	36.645	45.418
700	2.519	2.476	34.415	27.486	36.692	45.463
800	2.490	2.439	34.463	27.528	36.735	45.506
900	2.410	2.353	34.507	27.570	36.781	45.556
1000	2.339	2.275	34.546	27.608	36.823	45.602
1100	2.294	2.223	34.575	27.635	36.853	45.632
1200	2.254	2.176	34.595	27.655	36.874	45.657
1300	2.256	2.171	34.621	27.676	36.896	45.678
1400	2.211	2.119	34.624	27.683	36.905	45.690
1500	2.208	2.108	34.628	27.687	36.909	45.695
1600	2.203	2.095	34.629	27.689	36.912	45.698
1700	2.208	2.092	34.636	27.695	36.919	45.705
1800	2.179	2.055	34.643	27.703	36.929	45.717
1900	2.159	2.027	34.644	27.706	36.933	45.722
2000	1.977	1.839	34.686	27.755	36.991	45.790



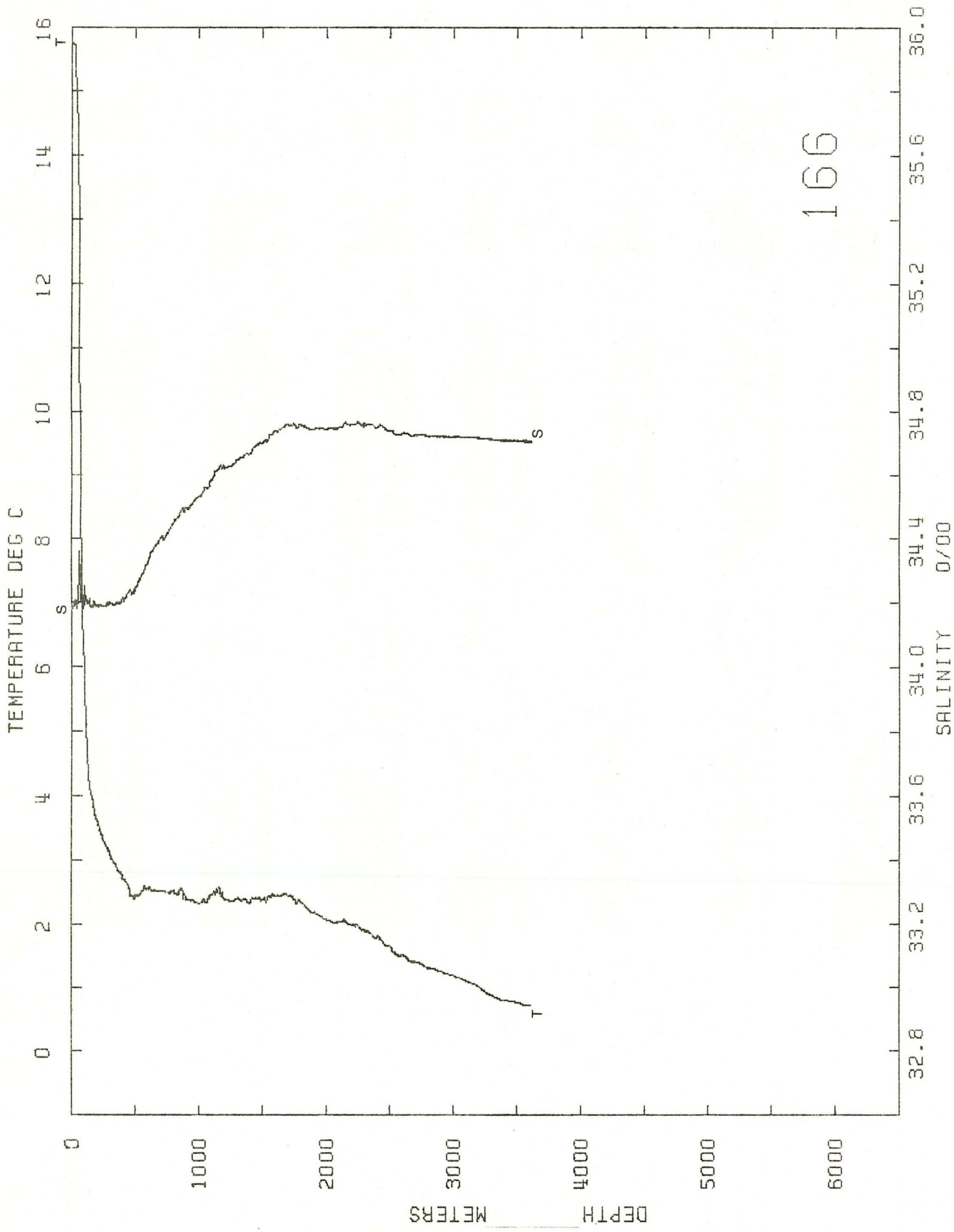
CONRAD 16 STATION 164
 03 /26/1973 GMT=2327 42 29.55 57 02.8W PDR=2463

DEPTH	TEMP	THETA	SALT	SIG-0	SIG-2	SIG-4
6	14.395	14.394	34.112	25.437	34.106	42.379
10	14.398	14.397	34.105	25.432	34.100	42.374
20	13.945	13.942	34.132	25.548	34.234	42.523
30	13.067	13.063	34.102	25.705	34.424	42.744
50	9.509	9.503	34.183	26.417	35.282	43.736
75	5.762	5.756	34.189	26.964	36.003	44.619
100	4.531	4.524	34.183	27.103	36.203	44.877
125	4.049	4.040	34.181	27.153	36.279	44.976
150	3.706	3.696	34.185	27.191	36.335	45.048
200	3.447	3.434	34.195	27.224	36.382	45.108
250	3.114	3.099	34.192	27.254	36.429	45.172
300	2.880	2.861	34.190	27.273	36.462	45.216
400	2.651	2.627	34.198	27.300	36.501	45.267
500	2.485	2.455	34.248	27.355	36.564	45.338
600	2.559	2.522	34.312	27.400	36.606	45.375
700	2.550	2.506	34.384	27.459	36.664	45.433
800	2.477	2.427	34.456	27.524	36.731	45.503
900	2.416	2.359	34.508	27.570	36.781	45.555
1000	2.401	2.337	34.548	27.604	36.816	45.590
1100	2.415	2.343	34.592	27.639	36.849	45.623
1200	2.309	2.231	34.612	27.664	36.880	45.660
1300	2.220	2.135	34.631	27.687	36.908	45.692
1400	2.365	2.271	34.670	27.707	36.920	45.696
1500	2.169	2.070	34.662	27.717	36.941	45.729
1600	2.117	2.010	34.678	27.734	36.961	45.752
1700	2.100	1.985	34.706	27.759	36.987	45.778
1800	2.037	1.915	34.711	27.768	37.000	45.795
1900	1.891	1.762	34.707	27.777	37.018	45.820
2000	1.867	1.731	34.709	27.781	37.023	45.827
2100	1.831	1.687	34.711	27.786	37.030	45.837
2200	1.812	1.660	34.716	27.792	37.038	45.846
2300	1.815	1.653	34.721	27.796	37.042	45.850
2400	1.820	1.650	34.722	27.797	37.045	45.852
2474	1.825	1.648	34.720	27.796	37.043	45.851



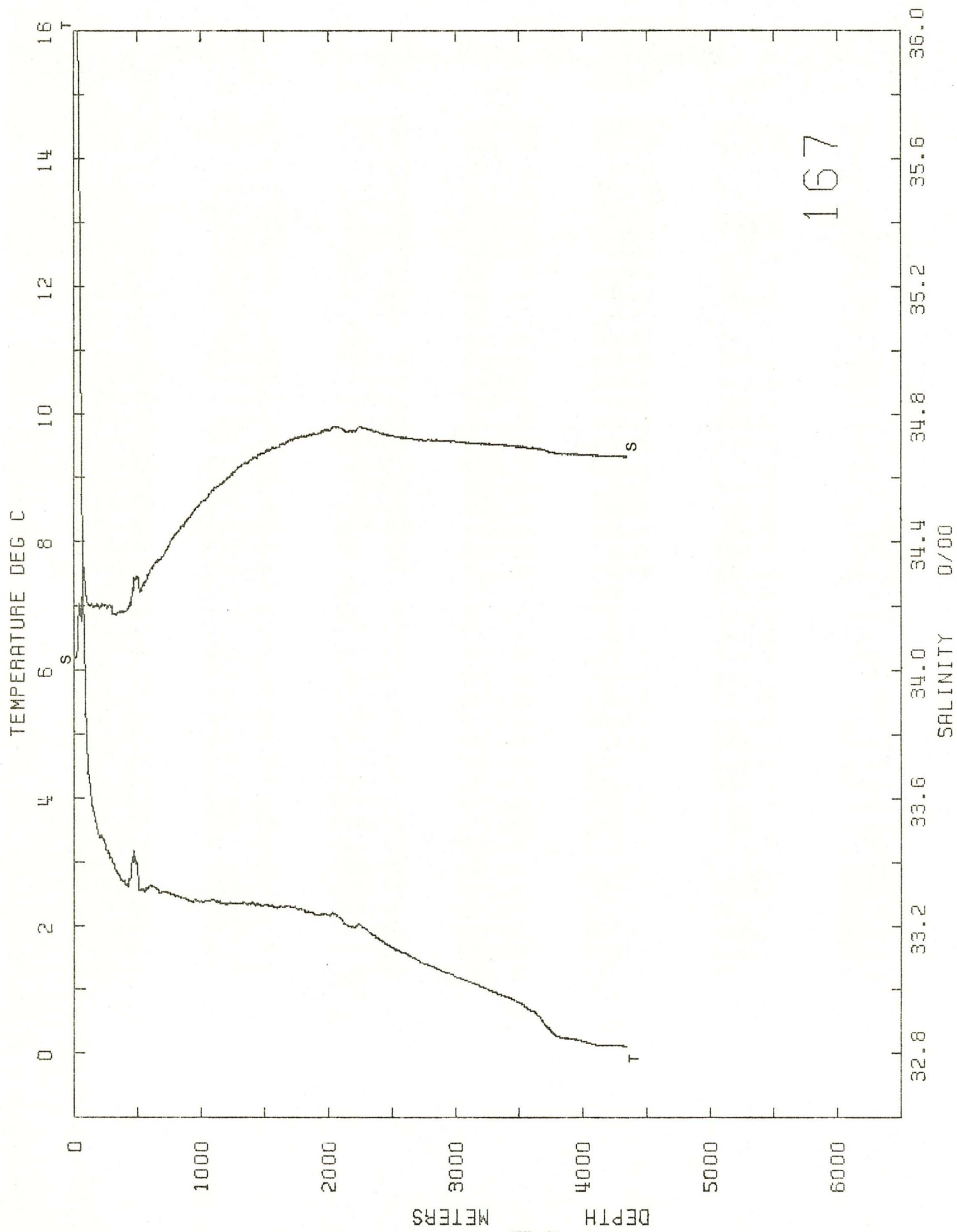
CONRAD 16 STATION 165
 03 /27/1973 GMT=0439 42 46.15 56 43.5W PDR=3076

DEPTH	TEMP	THETA	SALT	SIG-0	SIG-2	SIG-4
8	14.183	14.182	34.060	25.443	34.120	42.401
10	14.180	14.179	34.064	25.446	34.124	42.405
20	13.949	13.946	34.091	25.516	34.202	42.491
30	12.782	12.778	34.074	25.739	34.470	42.801
50	9.293	9.288	34.128	26.410	35.284	43.749
75	5.855	5.849	34.218	26.975	36.010	44.620
100	4.282	4.275	34.197	27.141	36.255	44.939
125	3.962	3.953	34.190	27.169	36.299	45.000
150	3.778	3.768	34.192	27.189	36.329	45.038
200	3.479	3.466	34.197	27.223	36.379	45.103
250	3.259	3.243	34.194	27.242	36.410	45.145
300	3.022	3.003	34.191	27.262	36.443	45.189
400	2.590	2.566	34.198	27.306	36.511	45.279
500	2.374	2.344	34.236	27.354	36.570	45.350
600	2.499	2.462	34.322	27.413	36.621	45.393
700	2.520	2.476	34.376	27.455	36.661	45.432
800	2.453	2.403	34.448	27.519	36.729	45.502
900	2.398	2.341	34.492	27.559	36.772	45.547
1000	2.359	2.295	34.540	27.601	36.815	45.592
1100	2.312	2.241	34.584	27.641	36.857	45.636
1200	2.300	2.222	34.616	27.668	36.884	45.664
1300	2.296	2.210	34.647	27.693	36.910	45.690
1400	2.232	2.139	34.662	27.712	36.932	45.715
1500	2.285	2.184	34.689	27.729	36.946	45.727
1600	2.238	2.129	34.702	27.745	36.968	45.749
1700	2.135	2.020	34.707	27.757	36.983	45.772
1800	2.107	1.984	34.719	27.770	36.997	45.788
1900	2.074	1.943	34.726	27.778	37.009	45.801
2000	2.084	1.945	34.747	27.795	37.025	45.817
2100	1.841	1.697	34.718	27.791	37.034	45.840
2200	1.767	1.615	34.717	27.796	37.045	45.854
2300	1.686	1.527	34.735	27.817	37.070	45.884
2400	1.605	1.439	34.730	27.820	37.078	45.897
2500	1.546	1.371	34.734	27.827	37.090	45.912
2600	1.501	1.318	34.736	27.833	37.097	45.922
2700	1.424	1.234	34.731	27.835	37.105	45.934
2800	1.373	1.175	34.731	27.839	37.112	45.945
2900	1.271	1.066	34.727	27.843	37.123	45.961
3000	1.239	1.025	34.728	27.847	37.129	45.969
3112	1.151	.928	34.731	27.855	37.143	45.989



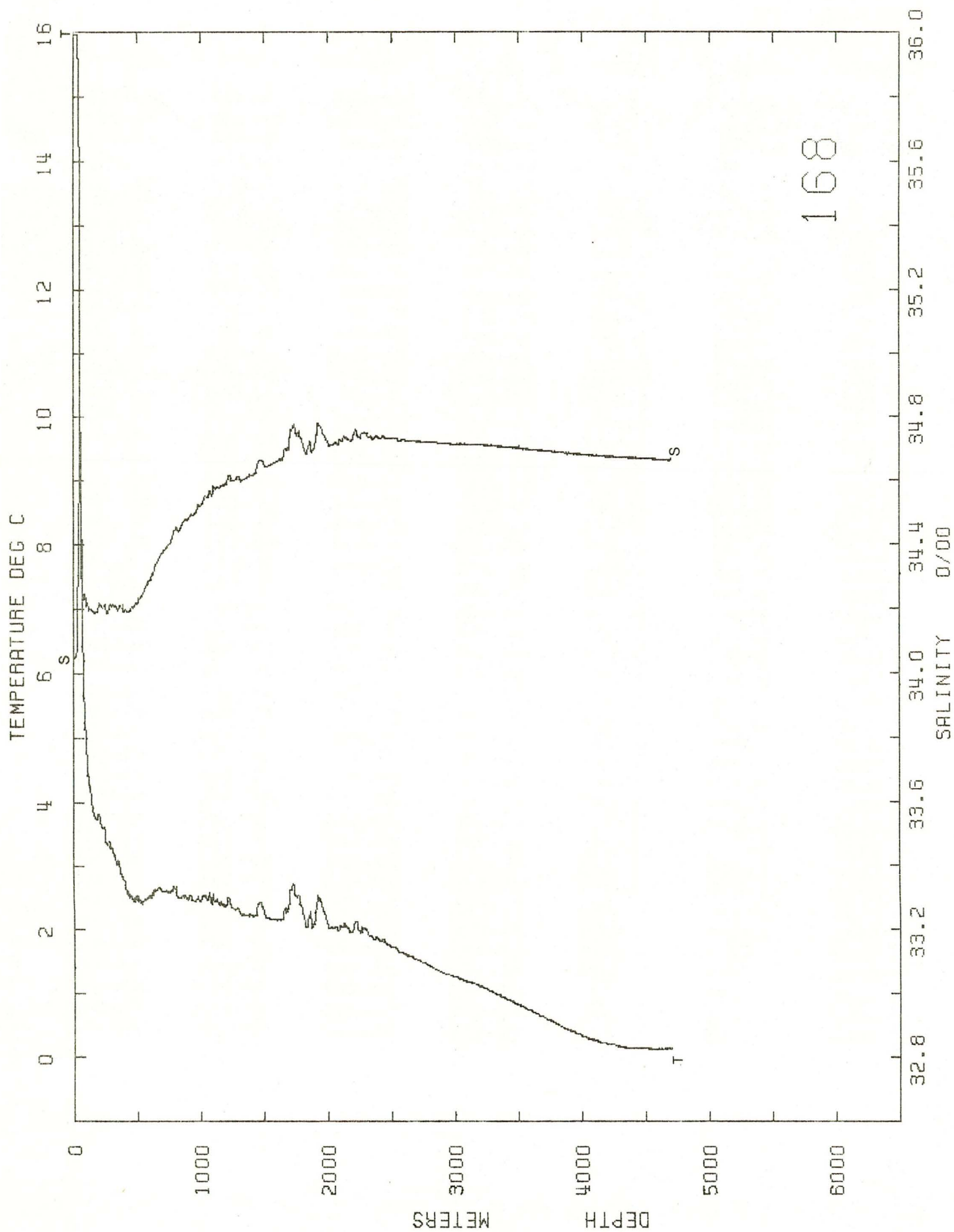
CONRAD 16 STATION 166
 03 /27/1973 GMT=0930 42 48.25 56 39.8W PDR=3588

DEPTH	TEMP	THETA	SALT	SIG-0	SIG-2	SIG-4
10	15.753	15.751	34.181	25.194	33.812	42.040
20	15.738	15.735	34.194	25.207	33.827	42.054
30	15.495	15.490	34.204	25.270	33.897	42.133
50	14.085	14.078	34.215	25.583	34.263	42.546
75	8.004	7.997	34.313	26.756	35.686	44.200
100	5.773	5.765	34.234	26.999	36.036	44.651
125	4.452	4.443	34.201	27.126	36.232	44.908
150	4.036	4.026	34.187	27.159	36.286	44.983
200	3.604	3.591	34.191	27.206	36.355	45.074
250	3.306	3.290	34.188	27.232	36.398	45.130
300	3.094	3.075	34.198	27.261	36.438	45.181
400	2.731	2.706	34.213	27.306	36.502	45.264
500	2.441	2.411	34.241	27.353	36.565	45.341
600	2.551	2.514	34.327	27.413	36.618	45.388
700	2.523	2.479	34.403	27.476	36.683	45.452
800	2.518	2.468	34.450	27.515	36.721	45.490
900	2.410	2.353	34.496	27.561	36.773	45.548
1000	2.327	2.263	34.532	27.597	36.813	45.592
1100	2.461	2.389	34.589	27.633	36.840	45.612
1200	2.404	2.325	34.624	27.666	36.877	45.651
1300	2.393	2.307	34.648	27.687	36.899	45.673
1400	2.339	2.245	34.667	27.707	36.922	45.699
1500	2.378	2.276	34.703	27.733	36.948	45.721
1600	2.436	2.325	34.739	27.758	36.967	45.739
1700	2.442	2.323	34.757	27.772	36.981	45.753
1800	2.347	2.220	34.757	27.781	36.995	45.773
1900	2.186	2.054	34.745	27.785	37.009	45.796
2000	2.070	1.931	34.745	27.795	37.025	45.819
2100	2.033	1.885	34.752	27.804	37.036	45.832
2200	1.986	1.831	34.759	27.814	37.050	45.847
2300	1.905	1.742	34.760	27.821	37.062	45.864
2400	1.798	1.628	34.752	27.823	37.071	45.879
2500	1.648	1.472	34.740	27.825	37.081	45.899
2600	1.512	1.330	34.732	27.829	37.093	45.918
2700	1.405	1.215	34.727	27.833	37.104	45.935
2800	1.313	1.116	34.724	27.837	37.114	45.949
2900	1.257	1.052	34.723	27.840	37.121	45.960
3000	1.187	.974	34.722	27.845	37.130	45.973
3250	.936	.705	34.715	27.857	37.158	46.016
3500	.763	.513	34.709	27.863	37.175	46.044
3610	.718	.457	34.706	27.864	37.179	46.051



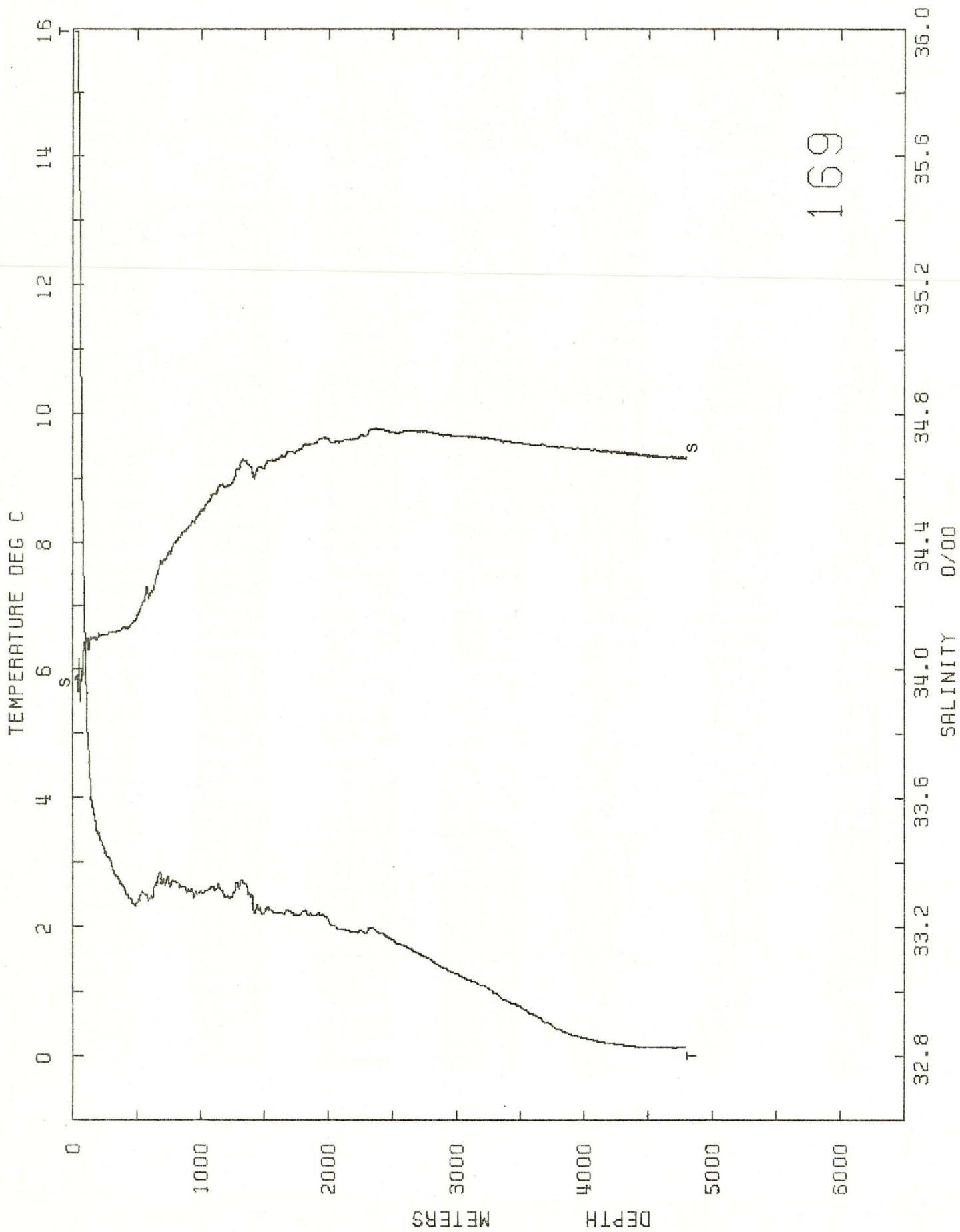
CONRAD 16 STATION 167
 03 /27/1973 GMT=1606 42 59.55 56 25.3W PDR=4321

DEPTH	TEMP	THETA	SALT	SIG-0	SIG-2	SIG-4
7	16.079	16.078	34.036	25.008	33.618	41.835
10	16.083	16.081	34.040	25.010	33.620	41.838
20	16.069	16.066	34.051	25.023	33.632	41.851
30	15.778	15.773	34.130	25.149	33.769	41.995
50	10.763	10.757	34.192	26.209	35.020	43.425
75	6.871	6.864	34.304	26.911	35.894	44.458
100	4.874	4.867	34.218	27.092	36.175	44.831
125	4.178	4.169	34.201	27.156	36.274	44.964
150	3.814	3.804	34.199	27.192	36.329	45.037
200	3.398	3.385	34.194	27.229	36.389	45.117
250	3.224	3.208	34.202	27.251	36.421	45.158
300	3.045	3.026	34.184	27.254	36.434	45.180
400	2.681	2.656	34.184	27.287	36.486	45.252
500	2.917	2.885	34.288	27.349	36.535	45.286
600	2.629	2.592	34.309	27.391	36.593	45.359
700	2.540	2.497	34.354	27.436	36.642	45.412
800	2.473	2.423	34.422	27.497	36.706	45.478
900	2.410	2.353	34.471	27.541	36.753	45.528
1000	2.391	2.327	34.522	27.584	36.797	45.572
1100	2.408	2.337	34.564	27.617	36.828	45.604
1200	2.351	2.273	34.594	27.646	36.860	45.638
1300	2.363	2.277	34.633	27.677	36.891	45.667
1400	2.364	2.270	34.658	27.698	36.911	45.687
1500	2.334	2.232	34.678	27.717	36.932	45.710
1600	2.294	2.185	34.696	27.735	36.953	45.733
1700	2.314	2.196	34.718	27.752	36.968	45.748
1800	2.254	2.129	34.729	27.766	36.986	45.769
1900	2.186	2.054	34.737	27.778	37.002	45.789
2000	2.172	2.031	34.749	27.790	37.014	45.803
2100	2.107	1.958	34.755	27.800	37.030	45.820
2200	1.988	1.832	34.747	27.804	37.040	45.838
2300	1.936	1.773	34.754	27.814	37.054	45.854
2400	1.791	1.621	34.741	27.815	37.063	45.872
2500	1.668	1.491	34.731	27.817	37.072	45.889
2600	1.573	1.390	34.726	27.819	37.081	45.902
2700	1.461	1.270	34.720	27.823	37.092	45.919
2800	1.375	1.177	34.717	27.828	37.101	45.934
2900	1.278	1.072	34.716	27.834	37.113	45.951
3000	1.197	.984	34.712	27.837	37.122	45.964
3250	1.004	.772	34.705	27.845	37.142	45.996
3500	.791	.540	34.698	27.853	37.163	46.031
3750	.353	.089	34.680	27.864	37.200	46.093
4000	.184	-.101	34.672	27.867	37.216	46.119
4250	.118	-.191	34.668	27.868	37.222	46.130
4344	.105	-.213	34.665	27.867	37.223	46.132



CONRAD 16 STATION 168
 03 /27/1973 GMT=2123 43 05.75 56 18.8W POR=4662

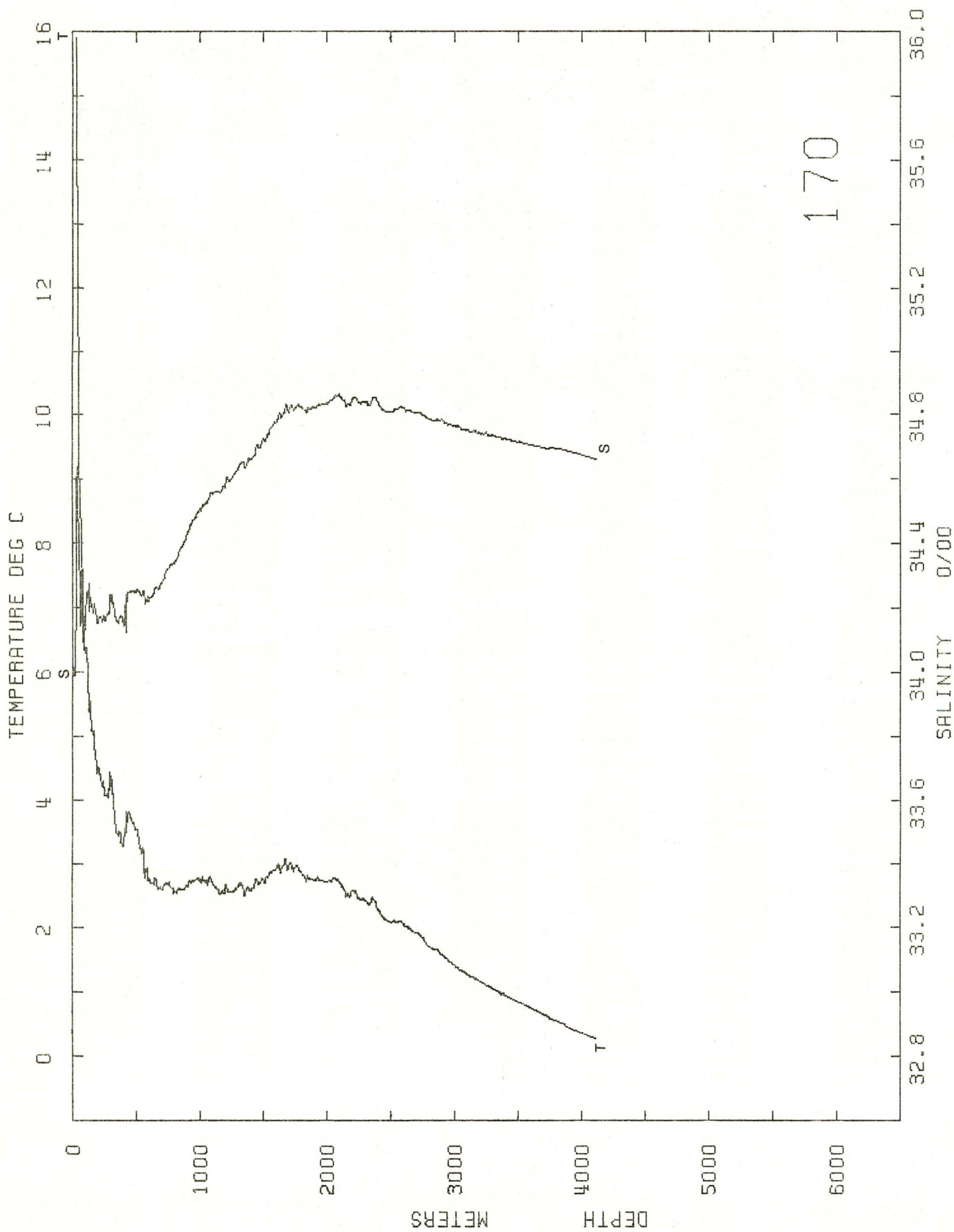
DEPTH	TEMP	THETA	SALT	SIG-0	SIG-2	SIG-4
10	15.963	15.961	34.050	25.045	33.659	41.880
20	15.966	15.963	34.061	25.054	33.668	41.889
30	15.804	15.800	34.159	25.166	33.784	42.009
50	11.543	11.536	34.704	26.466	35.237	43.606
75	6.239	6.233	34.246	26.949	35.963	44.556
100	4.870	4.862	34.214	27.090	36.173	44.829
125	4.269	4.260	34.198	27.143	36.258	44.943
150	3.871	3.861	34.192	27.180	36.315	45.021
200	3.783	3.769	34.217	27.209	36.349	45.057
250	3.421	3.404	34.202	27.233	36.392	45.119
300	3.281	3.261	34.211	27.254	36.421	45.154
400	2.753	2.728	34.196	27.290	36.485	45.246
500	2.487	2.457	34.222	27.333	36.544	45.318
600	2.521	2.484	34.290	27.386	36.594	45.365
700	2.606	2.562	34.375	27.447	36.649	45.415
800	2.653	2.602	34.447	27.501	36.700	45.464
900	2.497	2.440	34.479	27.541	36.748	45.519
1000	2.499	2.435	34.527	27.579	36.785	45.556
1100	2.474	2.402	34.572	27.618	36.825	45.597
1200	2.393	2.315	34.590	27.639	36.852	45.627
1300	2.296	2.211	34.610	27.664	36.881	45.662
1400	2.212	2.120	34.616	27.676	36.898	45.684
1500	2.247	2.146	34.654	27.704	36.925	45.707
1600	2.153	2.045	34.660	27.717	36.943	45.732
1700	2.540	2.420	34.726	27.739	36.943	45.711
1800	2.262	2.137	34.723	27.760	36.980	45.762
1900	2.245	2.112	34.715	27.756	36.977	45.761
2000	2.041	1.902	34.718	27.775	37.008	45.803
2100	2.047	1.899	34.727	27.783	37.016	45.810
2200	2.060	1.903	34.739	27.792	37.024	45.819
2300	1.982	1.818	34.748	27.805	37.042	45.841
2400	1.829	1.659	34.734	27.807	37.052	45.860
2500	1.726	1.548	34.732	27.813	37.065	45.879
2600	1.621	1.436	34.727	27.817	37.076	45.894
2700	1.523	1.331	34.722	27.821	37.085	45.910
2800	1.408	1.209	34.719	27.827	37.099	45.929
2900	1.342	1.135	34.717	27.830	37.106	45.941
3000	1.260	1.045	34.713	27.833	37.114	45.954
3250	1.068	.834	34.710	27.844	37.137	45.989
3500	.818	.566	34.701	27.854	37.163	46.029
3750	.567	.297	34.691	27.861	37.186	46.066
4000	.329	.039	34.681	27.867	37.207	46.102
4250	.189	-.122	34.673	27.869	37.219	46.123
4500	.133	-.203	34.668	27.869	37.224	46.132
4699	.130	-.228	34.662	27.866	37.222	46.132



CONRAD 16 STATION 169

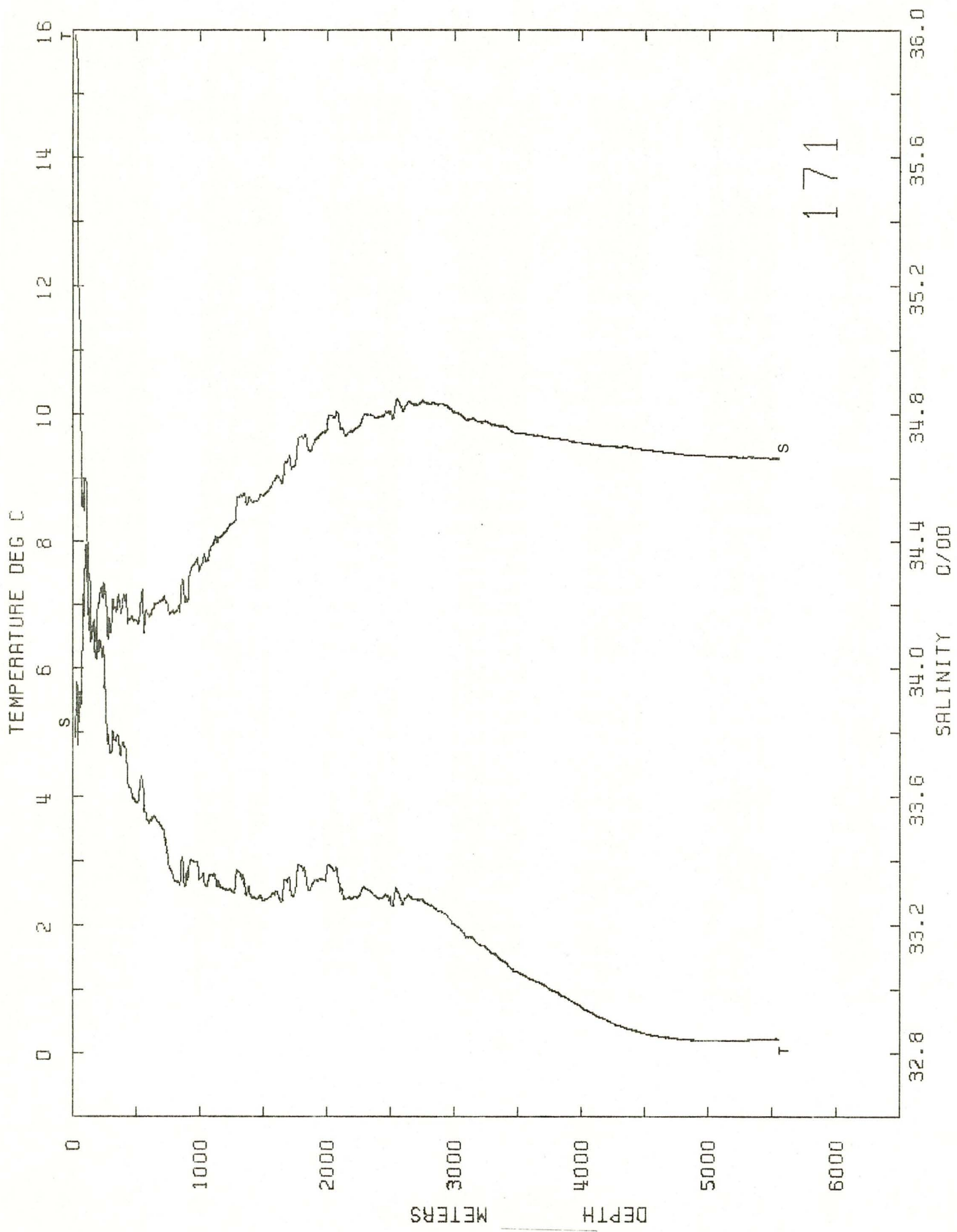
03 /28/1973 GMT=0754 43 13.65 56 08.5W POR=4768

DEPTH	TEMP	THETA	SALT	SIG-0	SIG-2	SIG-4
10	15.954	15.952	33.964	24.981	33.597	41.819
20	15.958	15.954	33.969	24.985	33.599	41.823
30	15.955	15.950	33.972	24.988	33.603	41.826
50	14.304	14.296	33.974	25.352	34.026	42.305
75	8.641	8.633	33.976	26.395	35.301	43.794
100	5.926	5.917	34.089	26.865	35.898	44.507
125	4.705	4.696	34.061	26.987	36.082	44.747
150	3.885	3.875	34.096	27.102	36.238	44.943
200	3.444	3.430	34.108	27.155	36.315	45.042
250	3.177	3.161	34.109	27.182	36.355	45.096
300	2.974	2.956	34.117	27.207	36.391	45.142
400	2.561	2.537	34.131	27.254	36.462	45.234
500	2.366	2.337	34.166	27.299	36.518	45.298
600	2.453	2.417	34.239	27.351	36.563	45.339
700	2.688	2.644	34.338	27.411	36.609	45.371
800	2.702	2.650	34.403	27.462	36.658	45.419
900	2.560	2.502	34.447	27.509	36.713	45.482
1000	2.549	2.484	34.501	27.554	36.758	45.527
1100	2.596	2.523	34.553	27.592	36.794	45.559
1200	2.465	2.385	34.576	27.622	36.831	45.603
1300	2.619	2.530	34.632	27.655	36.855	45.619
1400	2.470	2.375	34.625	27.662	36.871	45.642
1500	2.222	2.122	34.637	27.693	36.915	45.700
1600	2.216	2.108	34.660	27.713	36.935	45.720
1700	2.236	2.119	34.683	27.730	36.952	45.735
1800	2.238	2.113	34.702	27.745	36.966	45.750
1900	2.186	2.054	34.712	27.759	36.983	45.770
2000	2.096	1.956	34.720	27.773	37.003	45.794
2100	1.957	1.811	34.716	27.781	37.019	45.818
2200	1.918	1.764	34.722	27.789	37.030	45.832
2300	1.930	1.767	34.738	27.802	37.042	45.843
2400	1.903	1.731	34.751	27.815	37.057	45.860
2500	1.804	1.625	34.745	27.817	37.066	45.874
2600	1.701	1.515	34.748	27.828	37.082	45.896
2700	1.593	1.399	34.746	27.835	37.096	45.916
2800	1.484	1.283	34.744	27.841	37.109	45.935
2900	1.365	1.158	34.736	27.844	37.117	45.951
3000	1.276	1.061	34.733	27.848	37.128	45.966
3250	1.047	.813	34.725	27.857	37.152	46.004
3500	.764	.513	34.710	27.864	37.176	46.045
3750	.474	.206	34.701	27.875	37.205	46.090
4000	.284	-.004	34.692	27.878	37.221	46.118
4250	.186	-.125	34.682	27.876	37.226	46.130
4500	.139	-.197	34.672	27.872	37.226	46.134
4750	.134	-.230	34.665	27.868	37.225	46.134
4790	.135	-.234	34.663	27.867	37.223	46.133



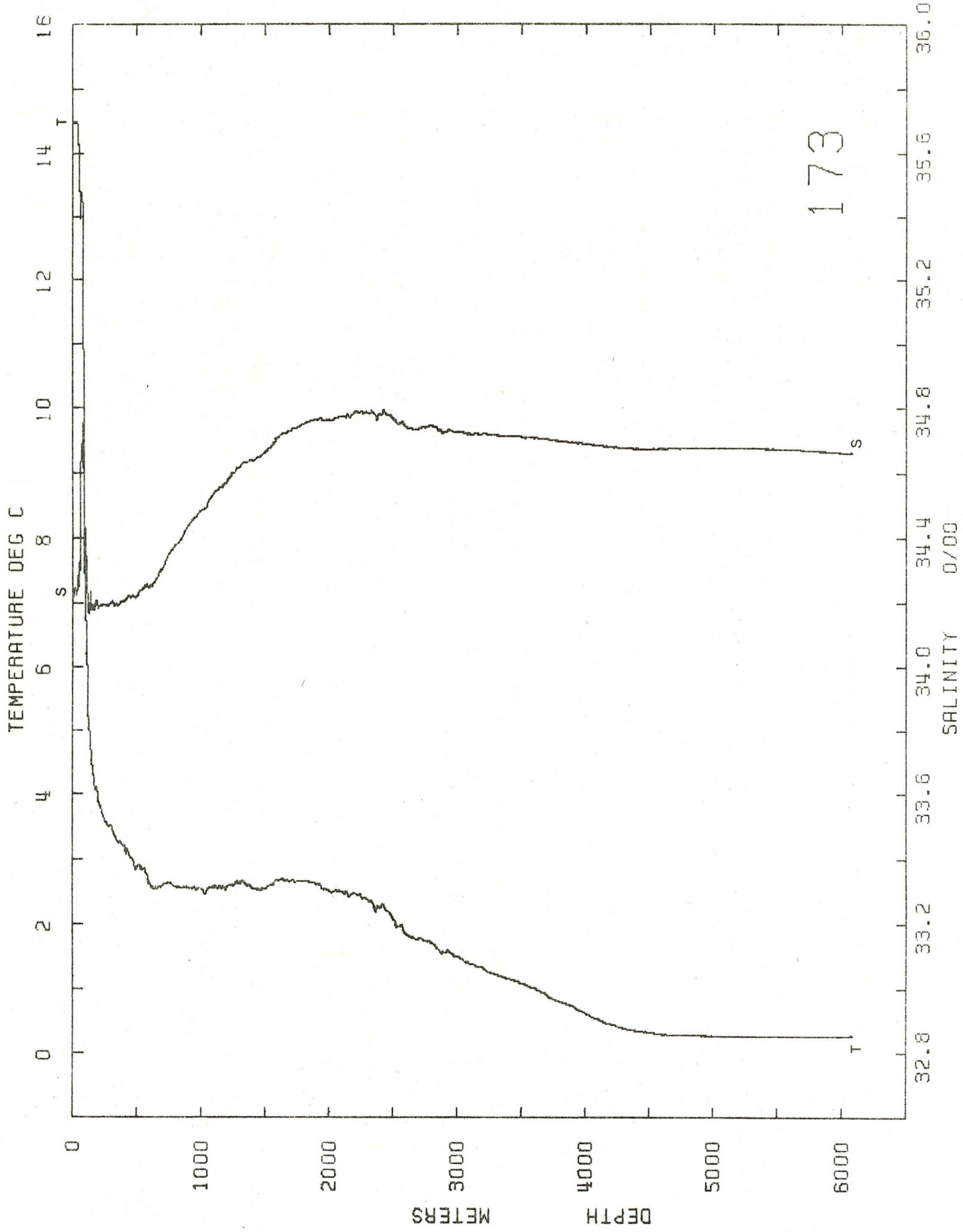
CONRAD 16 STATION 170
 03 /28/1973 GMT=1324 43 31.8S 55 47.1W PDR=5138

DEPTH	TEMP	THETA	SALT	SIG-0	SIG-2	SIG-4
7	17.128	17.127	34.012	24.746	33.319	41.504
10	17.072	17.070	34.001	24.751	33.327	41.513
20	17.027	17.024	34.010	24.769	33.346	41.534
30	14.499	14.495	34.514	25.725	34.385	42.650
50	9.703	9.698	34.375	26.535	35.388	43.832
75	7.521	7.514	34.265	26.789	35.742	44.278
100	6.338	6.330	34.189	26.892	35.902	44.491
125	5.613	5.602	34.256	27.036	36.081	44.702
150	5.138	5.126	34.204	27.052	36.122	44.766
200	4.487	4.472	34.158	27.089	36.193	44.869
250	4.124	4.106	34.167	27.135	36.258	44.951
300	4.282	4.260	34.227	27.167	36.281	44.965
400	3.320	3.293	34.155	27.206	36.372	45.105
500	3.541	3.507	34.251	27.262	36.415	45.136
600	2.758	2.721	34.227	27.316	36.511	45.272
700	2.599	2.555	34.280	27.372	36.575	45.344
800	2.567	2.517	34.340	27.423	36.628	45.397
900	2.654	2.595	34.431	27.489	36.688	45.452
1000	2.729	2.662	34.504	27.541	36.736	45.495
1100	2.690	2.616	34.555	27.586	36.782	45.543
1200	2.615	2.534	34.583	27.615	36.816	45.580
1300	2.645	2.556	34.630	27.651	36.850	45.612
1400	2.586	2.490	34.660	27.681	36.882	45.647
1500	2.745	2.638	34.720	27.716	36.908	45.665
1600	2.926	2.809	34.775	27.744	36.926	45.674
1700	2.962	2.835	34.811	27.771	36.951	45.697
1800	2.861	2.727	34.821	27.789	36.974	45.726
1900	2.743	2.602	34.822	27.800	36.993	45.751
2000	2.720	2.570	34.833	27.812	37.006	45.765
2100	2.698	2.539	34.857	27.834	37.029	45.789
2200	2.578	2.412	34.845	27.835	37.037	45.804
2300	2.430	2.258	34.839	27.843	37.054	45.829
2400	2.290	2.111	34.837	27.854	37.073	45.855
2500	2.081	1.896	34.807	27.847	37.079	45.872
2600	2.059	1.866	34.819	27.859	37.092	45.887
2700	1.924	1.724	34.804	27.858	37.099	45.902
2800	1.703	1.498	34.784	27.859	37.113	45.927
2900	1.571	1.360	34.780	27.865	37.127	45.949
3000	1.409	1.191	34.762	27.863	37.134	45.966
3250	1.099	.864	34.737	27.864	37.155	46.005
3500	.820	.567	34.711	27.862	37.170	46.036
3750	.578	.307	34.695	27.864	37.188	46.068
4107	.284	-.015	34.660	27.853	37.197	46.095



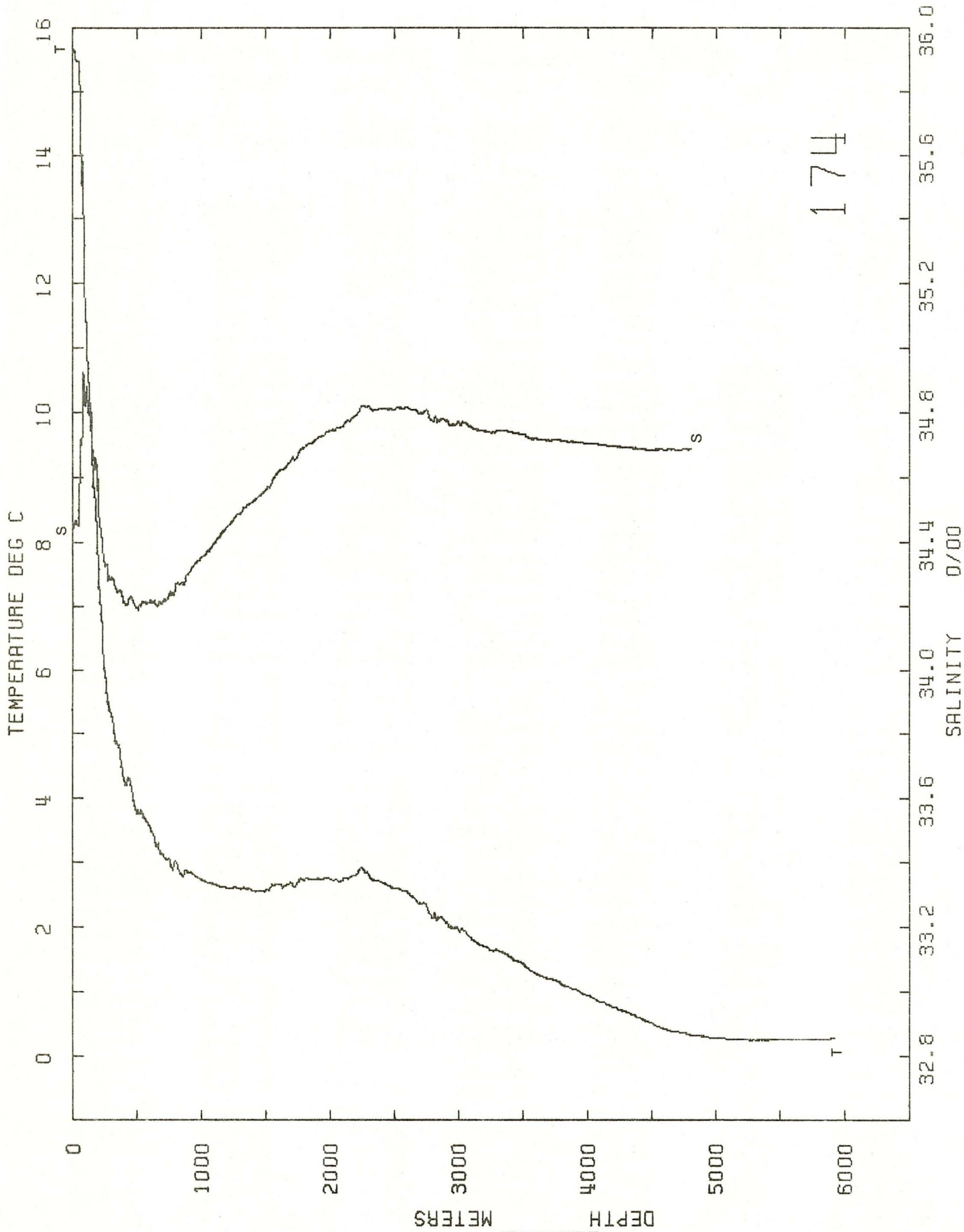
CONRAD 16 STATION 171
 03 /28/1973 GMT=2359 44 04.1S 54 38.3W POR=5510

DEPTH	TEMP	THETA	SALT	SIG-0	SIG-2	SIG-4
10	15.910	15.908	33.789	24.857	33.476	41.702
20	15.893	15.890	33.788	24.861	33.480	41.707
30	15.736	15.731	33.924	25.001	33.624	41.855
50	11.878	11.871	33.886	25.769	34.539	42.905
75	8.670	8.662	34.080	26.471	35.375	43.865
100	9.003	8.992	34.369	26.646	35.530	44.003
125	7.476	7.463	34.181	26.730	35.687	44.226
150	6.652	6.638	34.117	26.794	35.791	44.367
200	6.332	6.314	34.203	26.905	35.916	44.506
250	5.805	5.784	34.238	27.000	36.036	44.649
300	4.687	4.665	34.123	27.040	36.135	44.802
400	4.827	4.796	34.229	27.109	36.195	44.855
500	3.906	3.870	34.150	27.146	36.281	44.986
600	3.594	3.552	34.161	27.186	36.339	45.058
700	3.522	3.473	34.214	27.236	36.391	45.115
800	2.698	2.646	34.175	27.280	36.481	45.246
900	2.749	2.690	34.211	27.306	36.503	45.266
1000	2.718	2.652	34.317	27.393	36.591	45.354
1100	2.777	2.702	34.389	27.446	36.640	45.399
1200	2.552	2.472	34.430	27.499	36.705	45.475
1300	2.828	2.738	34.542	27.565	36.754	45.509
1400	2.456	2.362	34.529	27.587	36.798	45.572
1500	2.385	2.283	34.546	27.607	36.821	45.599
1600	2.508	2.396	34.603	27.643	36.851	45.622
1700	2.706	2.583	34.659	27.672	36.868	45.629
1800	2.900	2.766	34.727	27.710	36.896	45.646
1900	2.689	2.549	34.717	27.721	36.918	45.680
2000	2.871	2.719	34.772	27.751	36.938	45.689
2100	2.568	2.412	34.760	27.767	36.971	45.739
2200	2.417	2.254	34.746	27.769	36.982	45.758
2300	2.576	2.401	34.799	27.799	37.003	45.771
2400	2.428	2.247	34.790	27.805	37.018	45.793
2500	2.379	2.190	34.803	27.820	37.036	45.815
2600	2.347	2.148	34.811	27.830	37.047	45.828
2700	2.394	2.184	34.830	27.842	37.058	45.836
2800	2.311	2.093	34.833	27.852	37.072	45.855
2900	2.204	1.978	34.831	27.860	37.086	45.875
3000	2.007	1.776	34.806	27.855	37.094	45.893
3250	1.647	1.399	34.776	27.859	37.119	45.939
3500	1.270	1.006	34.740	27.857	37.140	45.982
3750	1.008	.726	34.725	27.863	37.162	46.020
4000	.731	.430	34.710	27.869	37.186	46.058
4250	.471	.151	34.699	27.876	37.209	46.097
4500	.312	-.030	34.689	27.877	37.221	46.120
4750	.232	-.136	34.677	27.873	37.224	46.128
5000	.202	-.193	34.669	27.869	37.223	46.131
5250	.206	-.219	34.666	27.868	37.224	46.133
5500	.217	-.238	34.662	27.866	37.223	46.133
5548	.222	-.239	34.661	27.865	37.222	46.132



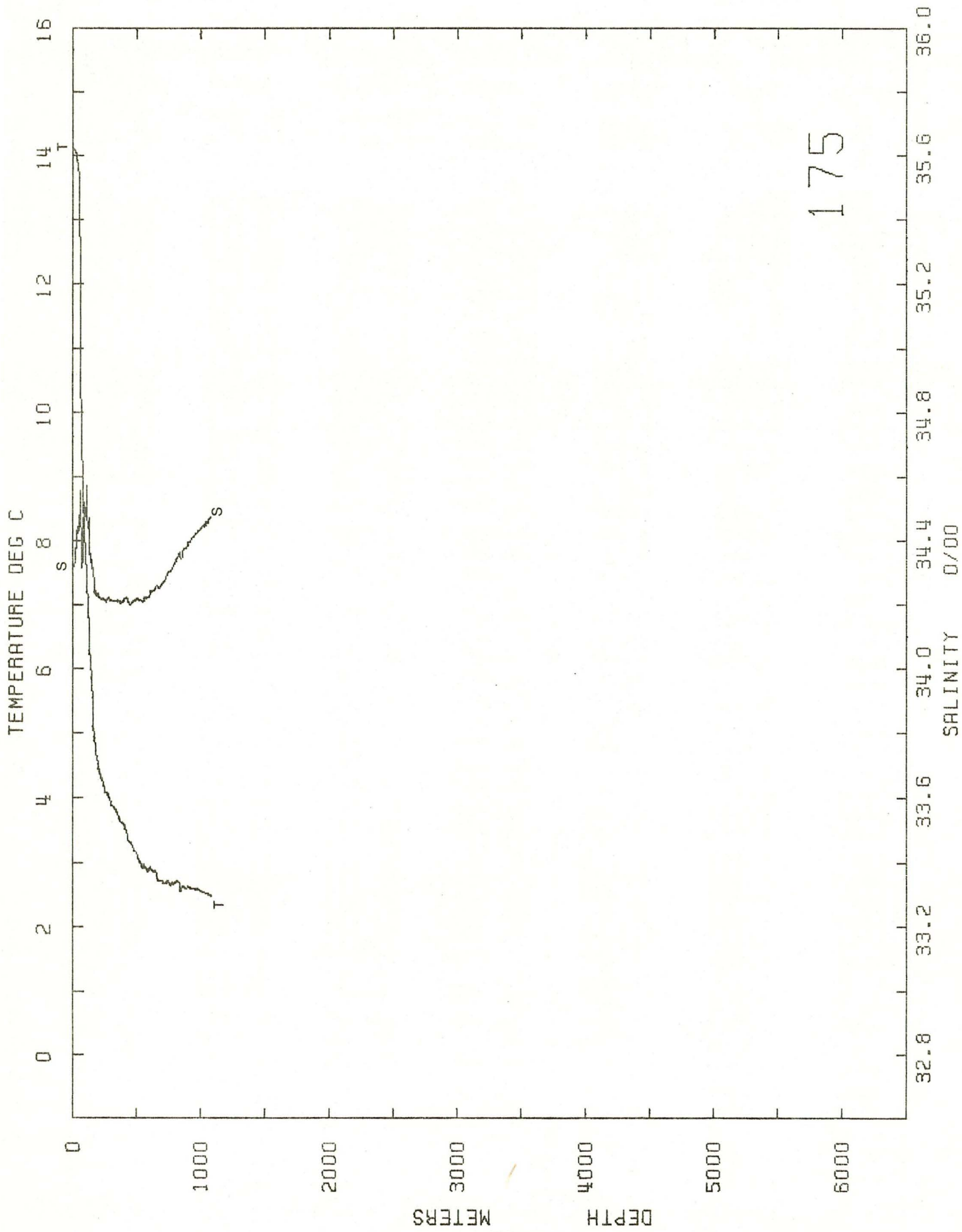
CONRAD 16 STATION 173
 03 /30/1973 GMT=0829 45 20.55 52 05.0W POR=5981

DEPTH	TEMP	THETA	SALT	SIG-0	SIG-2	SIG-4
10	14.491	14.490	34.235	25.512	34.176	42.444
20	14.490	14.487	34.252	25.525	34.189	42.457
30	14.487	14.483	34.240	25.517	34.181	42.449
50	13.978	13.971	34.284	25.659	34.342	42.628
75	13.093	13.082	34.712	26.172	34.883	43.194
100	7.120	7.110	34.312	26.883	35.855	44.408
125	5.207	5.197	34.182	27.026	36.093	44.734
150	4.570	4.559	34.196	27.110	36.209	44.880
200	3.943	3.929	34.196	27.176	36.308	45.009
250	3.594	3.577	34.204	27.218	36.368	45.086
300	3.517	3.497	34.209	27.230	36.384	45.106
400	3.215	3.189	34.216	27.264	36.435	45.172
500	2.861	2.830	34.229	27.308	36.498	45.252
600	2.642	2.605	34.260	27.351	36.553	45.318
700	2.587	2.544	34.316	27.401	36.606	45.373
800	2.577	2.526	34.385	27.458	36.662	45.429
900	2.550	2.492	34.446	27.509	36.714	45.483
1000	2.541	2.476	34.493	27.548	36.753	45.522
1100	2.574	2.501	34.545	27.588	36.791	45.557
1200	2.565	2.484	34.580	27.618	36.820	45.587
1300	2.623	2.534	34.625	27.649	36.848	45.613
1400	2.549	2.453	34.646	27.673	36.876	45.644
1500	2.541	2.437	34.670	27.693	36.897	45.666
1600	2.673	2.559	34.717	27.720	36.917	45.678
1700	2.664	2.542	34.738	27.738	36.936	45.697
1800	2.657	2.526	34.757	27.755	36.953	45.715
1900	2.615	2.476	34.769	27.769	36.969	45.734
2000	2.513	2.367	34.770	27.779	36.985	45.755
2100	2.495	2.340	34.780	27.789	36.997	45.768
2200	2.472	2.309	34.794	27.803	37.012	45.784
2300	2.375	2.203	34.793	27.811	37.026	45.804
2400	2.251	2.073	34.786	27.816	37.038	45.823
2500	2.073	1.889	34.773	27.820	37.052	45.847
2600	1.846	1.657	34.748	27.818	37.064	45.871
2700	1.769	1.572	34.742	27.819	37.070	45.882
2800	1.718	1.513	34.751	27.831	37.085	45.899
2900	1.561	1.350	34.732	27.828	37.091	45.914
3000	1.501	1.281	34.731	27.832	37.099	45.926
3250	1.259	1.021	34.724	27.843	37.126	45.967
3500	1.084	.825	34.718	27.851	37.144	45.996
3750	.841	.563	34.707	27.858	37.168	46.033
4000	.619	.322	34.696	27.864	37.187	46.067
4250	.412	.094	34.685	27.868	37.205	46.096
4500	.322	-.021	34.681	27.870	37.213	46.112
4750	.279	-.090	34.683	27.875	37.223	46.125
5000	.268	-.129	34.684	27.878	37.228	46.133
5250	.260	-.166	34.685	27.881	37.233	46.139
5500	.261	-.195	34.681	27.879	37.233	46.141
5750	.261	-.227	34.677	27.877	37.233	46.143
6000	.265	-.255	34.669	27.873	37.231	46.142
6079	.272	-.258	34.670	27.873	37.231	46.143



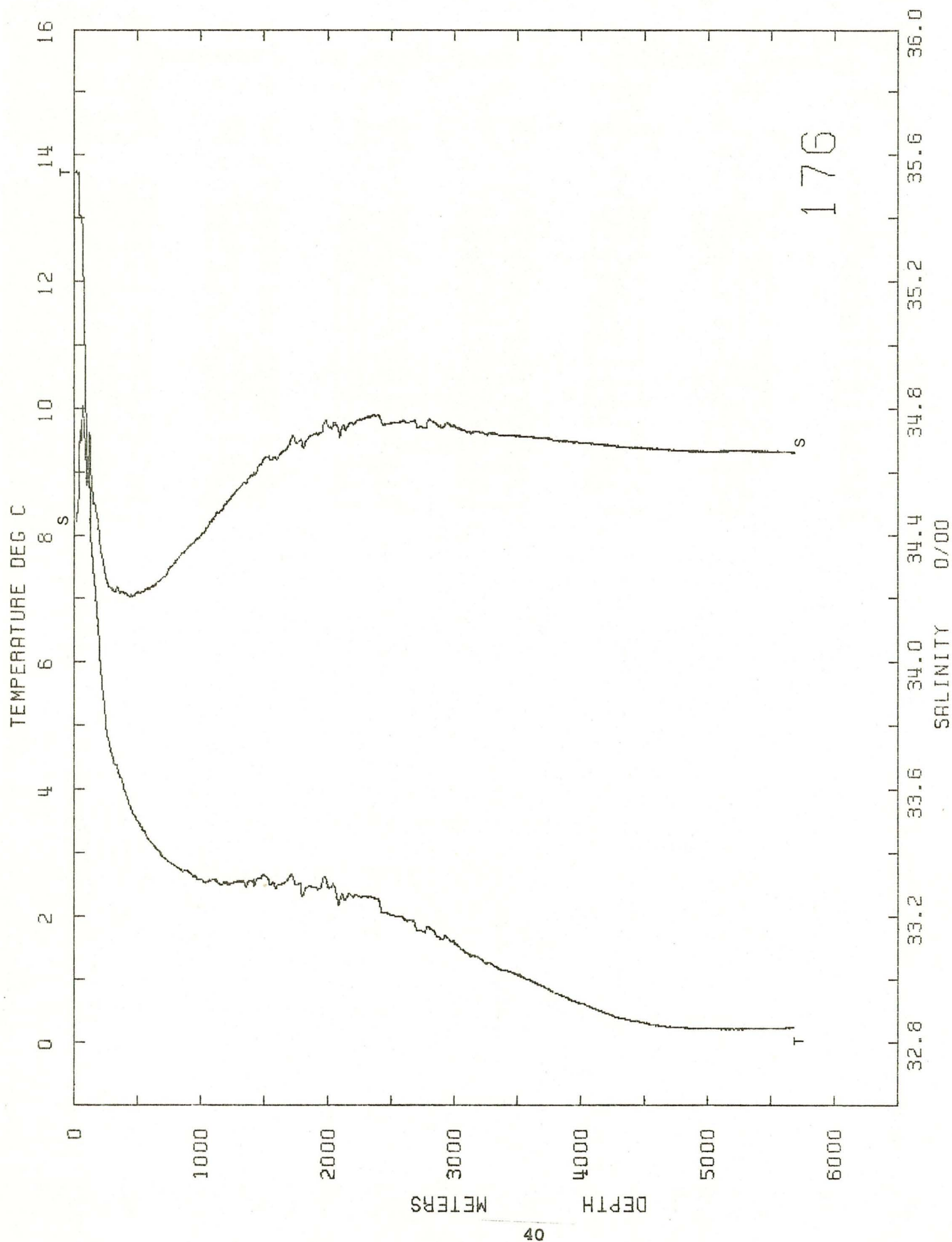
CONRAD 16 STATION 174
 03 /31/1973 GMT=0122 45 57.65 50 01.4W PDR=5829

DEPTH	TEMP	THETA	SALT	SIG-0	SIG-2	SIG-4
10	15.638	15.636	34.448	25.424	34.043	42.271
20	15.574	15.571	34.464	25.451	34.073	42.302
30	15.483	15.479	34.459	25.468	34.093	42.325
50	15.430	15.422	34.484	25.500	34.127	42.361
75	13.676	13.665	34.735	26.071	34.759	43.050
100	11.506	11.493	34.858	26.593	35.364	43.733
125	10.419	10.404	34.810	26.753	35.570	43.981
150	9.390	9.373	34.725	26.862	35.724	44.177
200	7.488	7.468	34.527	27.001	35.952	44.486
250	5.917	5.895	34.329	27.057	36.087	44.694
300	5.292	5.267	34.289	27.102	36.164	44.800
400	4.270	4.241	34.211	27.156	36.272	44.957
500	3.778	3.743	34.196	27.195	36.336	45.047
600	3.580	3.538	34.215	27.231	36.382	45.103
700	3.119	3.072	34.213	27.273	36.450	45.193
800	3.015	2.962	34.265	27.324	36.507	45.254
900	2.852	2.792	34.304	27.370	36.561	45.317
1000	2.729	2.663	34.354	27.421	36.618	45.379
1100	2.663	2.590	34.398	27.463	36.663	45.428
1200	2.600	2.520	34.449	27.510	36.713	45.480
1300	2.594	2.506	34.492	27.545	36.749	45.515
1400	2.565	2.469	34.528	27.577	36.781	45.551
1500	2.577	2.473	34.562	27.604	36.808	45.576
1600	2.663	2.550	34.619	27.643	36.842	45.605
1700	2.683	2.561	34.659	27.674	36.871	45.633
1800	2.741	2.609	34.693	27.697	36.891	45.650
1900	2.749	2.609	34.720	27.719	36.912	45.671
2000	2.750	2.600	34.745	27.739	36.933	45.691
2100	2.740	2.581	34.761	27.753	36.948	45.707
2200	2.811	2.642	34.792	27.773	36.964	45.719
2300	2.813	2.634	34.818	27.794	36.985	45.741
2400	2.694	2.508	34.812	27.801	36.998	45.760
2500	2.605	2.411	34.810	27.807	37.010	45.777
2600	2.534	2.331	34.815	27.818	37.025	45.797
2700	2.365	2.156	34.797	27.818	37.036	45.815
2800	2.161	1.947	34.773	27.816	37.045	45.836
2900	2.077	1.854	34.774	27.824	37.059	45.855
3000	1.952	1.722	34.766	27.828	37.070	45.873
3250	1.647	1.399	34.738	27.829	37.089	45.910
3500	1.425	1.157	34.733	27.842	37.116	45.950
3750	1.175	.888	34.715	27.845	37.134	45.983
4000	.940	.633	34.705	27.853	37.158	46.020
4250	.718	.391	34.694	27.858	37.178	46.053
4500	.508	.160	34.683	27.862	37.195	46.083
4750	.359	-.013	34.687	27.874	37.217	46.115
5000	.282					
5250	.252					
5500	.254					
5750	.262					
5923	.273					



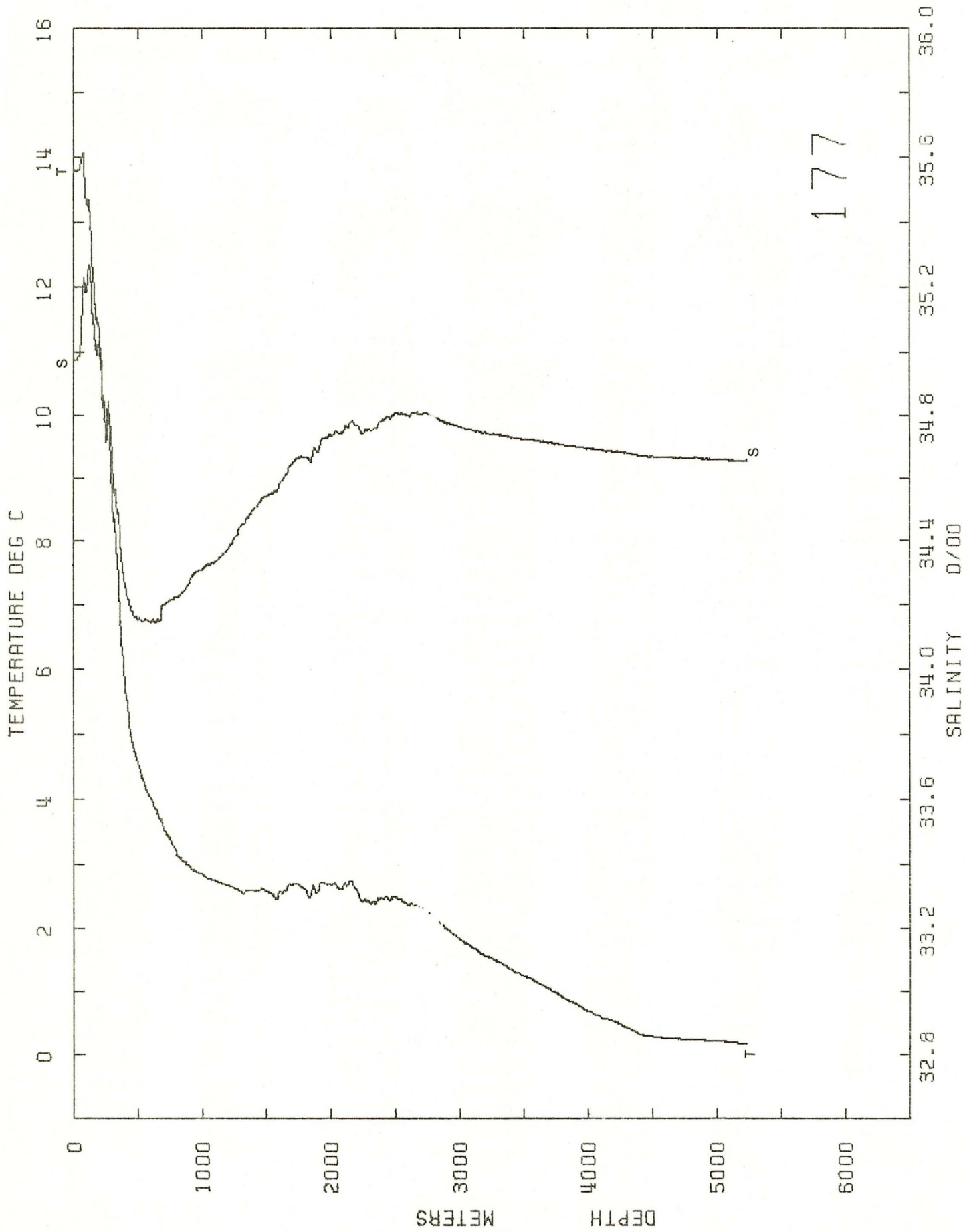
CONRAD 16 STATION 175
04 /01/1973 GMT=0507 46 35.8S 47 31.2W PDR=5647

DEPTH	TEMP	THETA	SALT	SIG-0	SIG-2	SIG-4
10	14.089	14.088	34.329	25.669	34.347	42.628
20	14.066	14.063	34.362	25.700	34.378	42.659
30	13.973	13.969	34.406	25.754	34.434	42.719
50	13.137	13.130	34.446	25.957	34.669	42.982
75	9.243	9.235	34.341	26.585	35.459	43.922
100	7.691	7.681	34.490	26.941	35.883	44.408
125	6.773	6.762	34.452	27.041	36.027	44.593
150	5.760	5.747	34.316	27.066	36.103	44.717
200	4.465	4.451	34.228	27.147	36.251	44.926
250	4.116	4.099	34.214	27.173	36.296	44.988
300	3.916	3.895	34.216	27.195	36.328	45.031
400	3.588	3.561	34.218	27.230	36.381	45.100
500	3.149	3.116	34.218	27.273	36.447	45.188
600	2.908	2.869	34.226	27.301	36.489	45.242
700	2.714	2.670	34.267	27.351	36.549	45.312
800	2.689	2.637	34.331	27.405	36.604	45.367
900	2.628	2.570	34.389	27.457	36.658	45.425
1000	2.560	2.495	34.437	27.502	36.706	45.475
1081	2.490	2.419	34.477	27.541	36.749	45.521



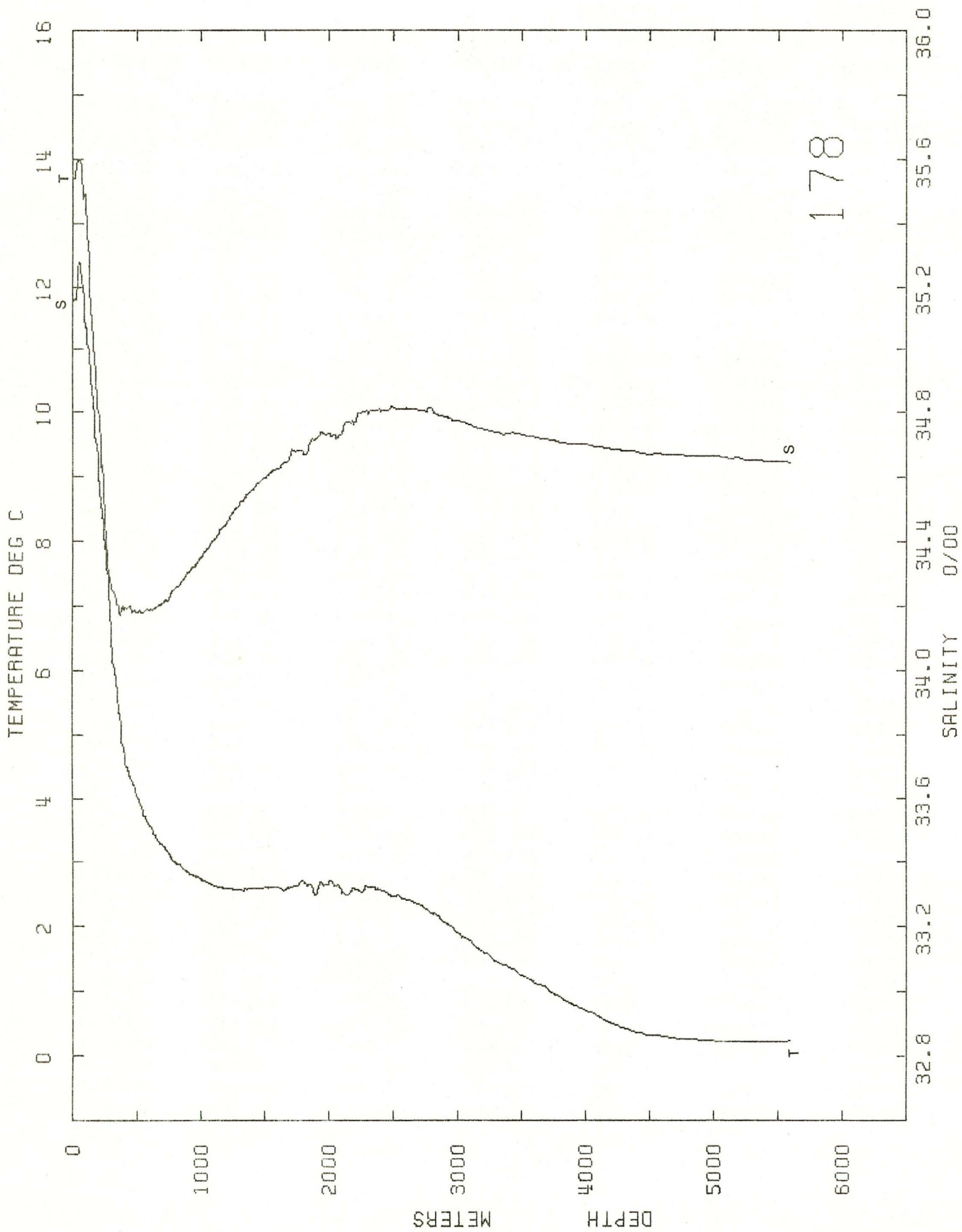
CONRAD 16 STATION 176
 04 /03/1973 GMT=0227 46 53.4S 39 00.1W PDR=5594

DEPTH	TEMP	THETA	SALT	SIG-0	SIG-2	SIG-4
9	13.724	13.723	34.452	25.841	34.530	42.822
10	13.721	13.720	34.454	25.843	34.532	42.825
20	13.717	13.714	34.464	25.851	34.541	42.834
30	13.656	13.652	34.533	25.918	34.609	42.903
50	13.025	13.018	34.699	26.175	34.888	43.202
75	10.308	10.299	34.655	26.650	35.474	43.890
100	9.162	9.151	34.581	26.786	35.660	44.124
125	8.410	8.397	34.682	26.984	35.890	44.383
150	7.465	7.451	34.512	26.992	35.945	44.480
200	6.141	6.124	34.384	27.072	36.089	44.685
250	4.969	4.949	34.259	27.116	36.194	44.846
300	4.513	4.490	34.228	27.142	36.244	44.918
400	3.963	3.934	34.215	27.191	36.322	45.023
500	3.499	3.465	34.217	27.239	36.395	45.118
600	3.178	3.138	34.232	27.282	36.455	45.195
700	2.938	2.892	34.265	27.331	36.516	45.268
800	2.790	2.738	34.318	27.386	36.579	45.338
900	2.703	2.644	34.363	27.430	36.628	45.390
1000	2.578	2.513	34.401	27.472	36.676	45.444
1100	2.583	2.510	34.456	27.516	36.719	45.488
1200	2.523	2.443	34.503	27.559	36.765	45.536
1300	2.549	2.461	34.549	27.595	36.800	45.568
1400	2.560	2.464	34.590	27.627	36.830	45.599
1500	2.650	2.545	34.643	27.663	36.862	45.624
1600	2.463	2.352	34.642	27.678	36.887	45.660
1700	2.641	2.519	34.696	27.707	36.906	45.669
1800	2.342	2.216	34.685	27.724	36.940	45.719
1900	2.458	2.321	34.721	27.744	36.953	45.726
2000	2.479	2.333	34.746	27.763	36.971	45.743
2100	2.311	2.159	34.727	27.762	36.980	45.761
2200	2.314	2.153	34.751	27.781	36.999	45.781
2300	2.315	2.144	34.772	27.799	37.017	45.798
2400	2.251	2.073	34.777	27.809	37.031	45.816
2500	2.023	1.839	34.754	27.809	37.045	45.842
2600	1.968	1.776	34.761	27.819	37.058	45.859
2700	1.793	1.595	34.745	27.820	37.069	45.879
2800	1.824	1.616	34.765	27.834	37.082	45.891
2900	1.634	1.421	34.741	27.829	37.089	45.908
3000	1.585	1.363	34.745	27.836	37.099	45.921
3250	1.255	1.017	34.720	27.840	37.123	45.965
3500	1.075	.816	34.715	27.849	37.143	45.995
3750	.845	.567	34.706	27.857	37.167	46.031
4000	.627	.329	34.693	27.861	37.184	46.062
4250	.426	.108	34.683	27.865	37.201	46.092
4500	.310	-.032	34.675	27.866	37.211	46.109
4750	.240	-.128	34.669	27.866	37.216	46.121
5000	.217	-.178	34.664	27.864	37.218	46.125
5250	.211	-.213	34.667	27.869	37.224	46.133
5500	.220	-.235	34.665	27.868	37.225	46.135
5682	.237	-.242	34.665	27.868	37.225	46.136



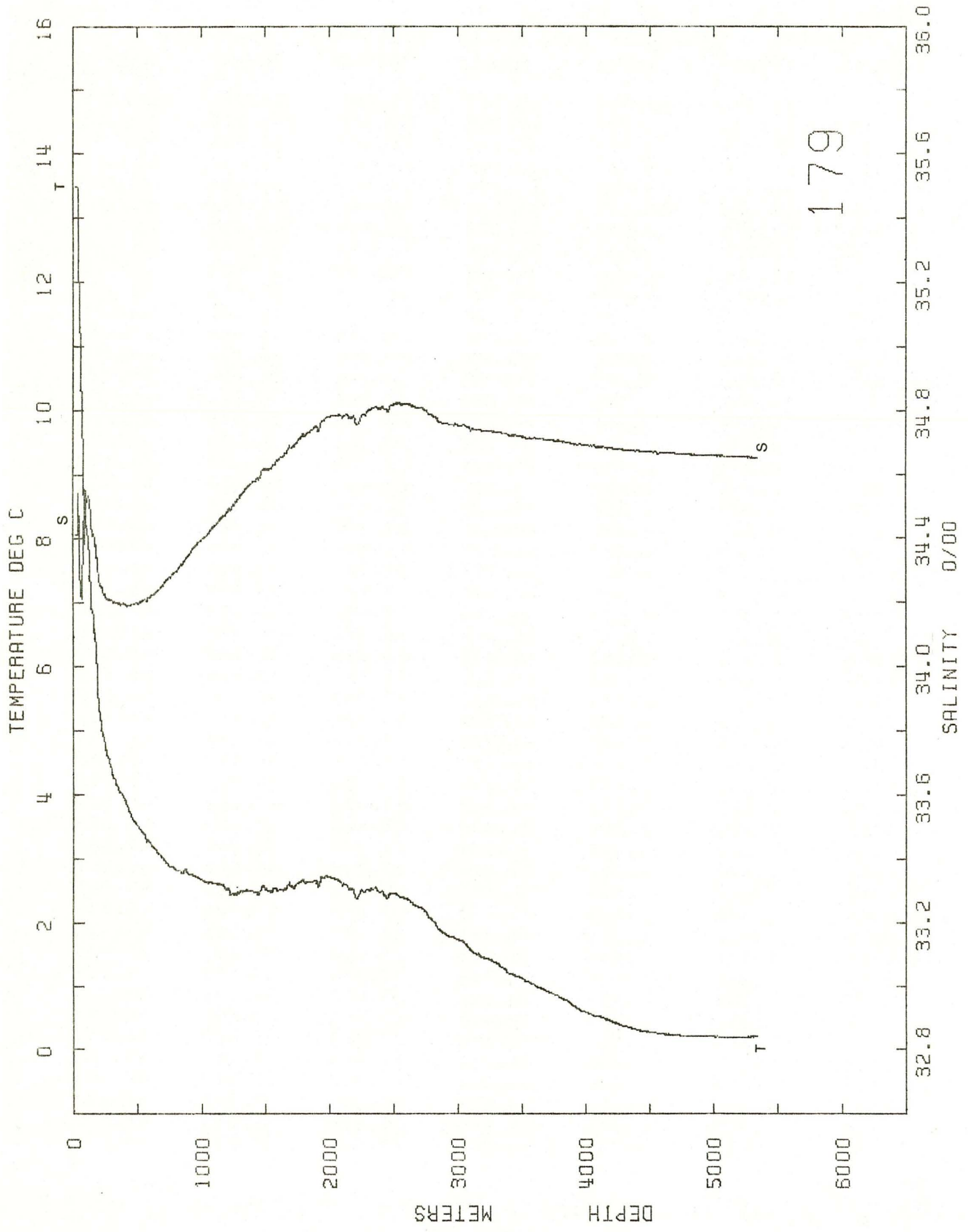
CONRAD 16 STATION 177
 04 /03/1973 GMT=1213 47 02.1S 39 49.7W PDR=5134

DEPTH	TEMP	THETA	SALT	SIG-0	SIG-2	SIG-4
7	13.788	13.787	34.977	26.232	34.912	43.196
10	13.787	13.786	34.976	26.232	34.912	43.196
20	13.787	13.784	34.976	26.232	34.912	43.196
30	13.793	13.789	34.983	26.237	34.917	43.200
50	13.851	13.843	35.004	26.241	34.918	43.200
75	14.027	14.016	35.209	26.363	35.032	43.304
100	13.301	13.287	35.200	26.508	35.204	43.501
125	13.140	13.123	35.254	26.583	35.284	43.588
150	12.128	12.108	35.101	26.665	35.408	43.750
200	11.198	11.173	35.002	26.764	35.547	43.924
250	9.686	9.658	34.735	26.823	35.673	44.114
300	8.635	8.603	34.638	26.918	35.816	44.300
400	5.720	5.686	34.256	27.026	36.067	44.685
500	4.545	4.507	34.155	27.083	36.185	44.859
600	3.998	3.955	34.146	27.134	36.265	44.966
700	3.542	3.493	34.201	27.223	36.378	45.101
800	3.156	3.102	34.223	27.278	36.454	45.195
900	2.969	2.908	34.274	27.336	36.521	45.271
1000	2.843	2.775	34.312	27.378	36.569	45.326
1100	2.746	2.672	34.334	27.405	36.601	45.363
1200	2.676	2.595	34.372	27.442	36.642	45.406
1300	2.575	2.487	34.445	27.509	36.714	45.484
1400	2.596	2.500	34.499	27.551	36.755	45.523
1500	2.582	2.478	34.540	27.586	36.789	45.558
1600	2.573	2.461	34.577	27.617	36.821	45.589
1700	2.681	2.559	34.647	27.665	36.862	45.625
1800	2.603	2.474	34.667	27.688	36.890	45.656
1900	2.605	2.466	34.689	27.706	36.908	45.675
2000	2.675	2.527	34.737	27.739	36.937	45.700
2100	2.700	2.542	34.758	27.755	36.952	45.713
2200	2.604	2.438	34.769	27.772	36.974	45.741
2300	2.405	2.234	34.754	27.778	36.991	45.768
2400	2.465	2.283	34.785	27.798	37.008	45.782
2500	2.489	2.297	34.807	27.814	37.023	45.796
2600	2.366	2.167	34.799	27.819	37.036	45.815
2700	2.323	2.115	34.805	27.828	37.047	45.830
2800	2.168	1.954	34.794	27.832	37.061	45.851
2900	1.990	1.770	34.775	27.831	37.070	45.870
3000	1.825	1.598	34.763	27.834	37.083	45.893
3250	1.520	1.275	34.741	27.840	37.107	45.934
3500	1.244	.981	34.725	27.846	37.131	45.974
3750	.977	.695	34.711	27.854	37.155	46.014
4000	.687	.387	34.695	27.859	37.179	46.055
4250	.469	.149	34.683	27.863	37.197	46.086
4500	.273	-.068	34.670	27.864	37.210	46.111
4750	.223	-.143	34.665	27.863	37.215	46.120
5000	.197	-.197	34.659	27.862	37.216	46.125
5225	.164	-.256	34.656	27.862	37.219	46.131



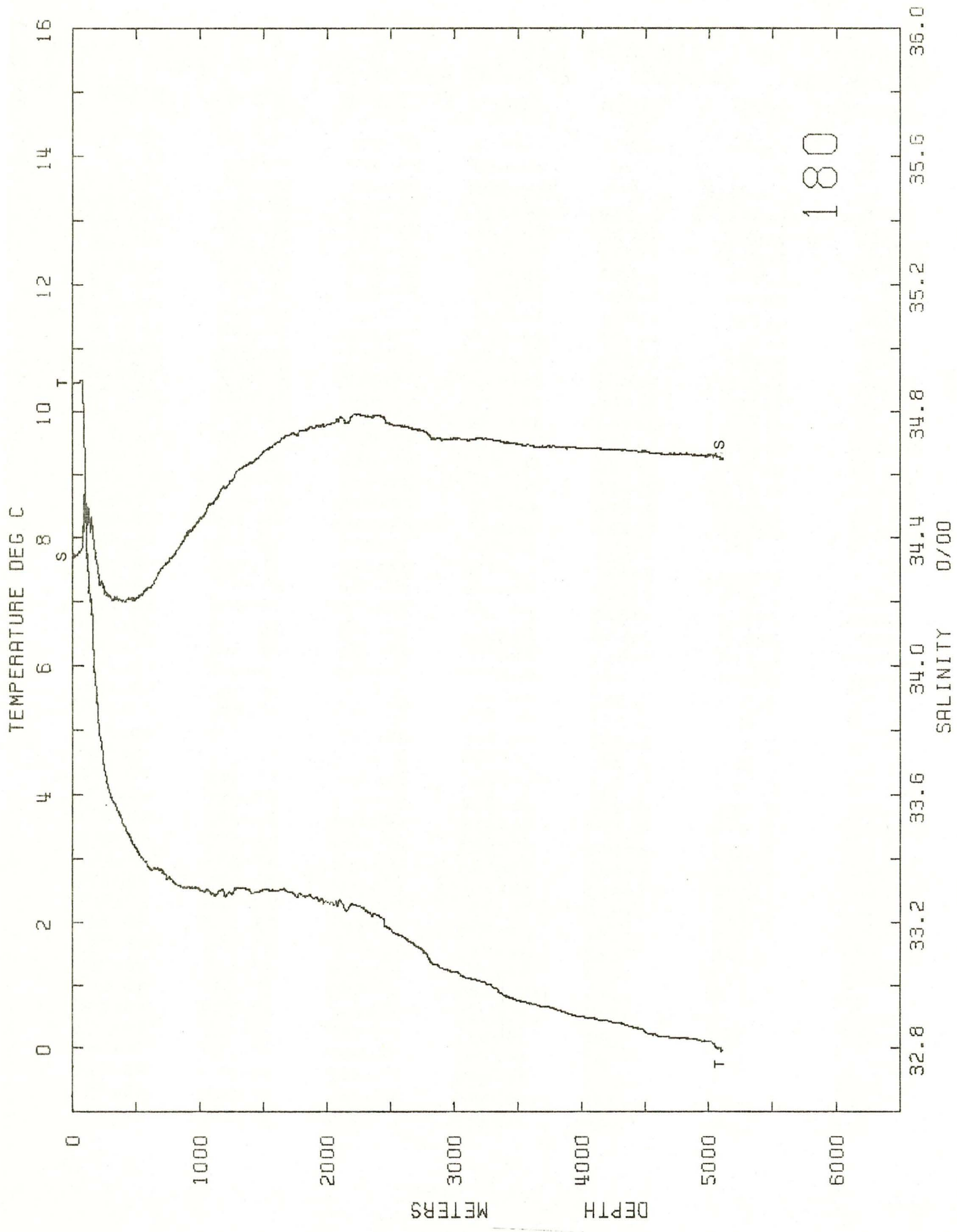
CONRAD 16 STATION 178
 04 /04/1973 GMT=0033 47 05.7S 40 14.4W PDR=5616

DEPTH	TEMP	THETA	SALT	SIG-0	SIG-2	SIG-4
6	13.705	13.704	35.157	26.389	35.070	43.354
10	13.705	13.704	35.158	26.389	35.070	43.354
20	13.727	13.724	35.160	26.387	35.066	43.350
30	13.956	13.952	35.196	26.367	35.038	43.313
50	13.976	13.969	35.279	26.427	35.096	43.369
75	13.625	13.615	35.212	26.449	35.132	43.419
100	13.374	13.360	35.073	26.394	35.089	43.386
125	12.379	12.362	34.994	26.533	35.268	43.601
150	11.362	11.343	34.867	26.628	35.405	43.779
200	10.017	9.993	34.618	26.675	35.512	43.941
250	8.240	8.214	34.387	26.781	35.701	44.205
300	6.552	6.525	34.256	26.918	35.918	44.498
400	4.785	4.754	34.191	27.084	36.173	44.835
500	4.063	4.027	34.179	27.152	36.280	44.976
600	3.567	3.526	34.189	27.211	36.364	45.085
700	3.253	3.206	34.212	27.259	36.429	45.165
800	2.988	2.935	34.257	27.320	36.503	45.253
900	2.835	2.776	34.304	27.372	36.563	45.320
1000	2.731	2.664	34.351	27.419	36.616	45.377
1100	2.625	2.552	34.408	27.474	36.676	45.443
1200	2.572	2.492	34.465	27.525	36.729	45.498
1300	2.565	2.477	34.519	27.569	36.774	45.541
1400	2.577	2.481	34.559	27.601	36.804	45.572
1500	2.592	2.488	34.598	27.631	36.834	45.600
1600	2.596	2.483	34.623	27.651	36.854	45.620
1700	2.593	2.472	34.671	27.691	36.893	45.659
1800	2.693	2.562	34.673	27.685	36.882	45.644
1900	2.498	2.361	34.716	27.737	36.944	45.716
2000	2.676	2.528	34.732	27.735	36.933	45.695
2100	2.529	2.373	34.740	27.755	36.960	45.731
2200	2.565	2.400	34.770	27.776	36.981	45.749
2300	2.607	2.432	34.799	27.796	36.998	45.765
2400	2.551	2.368	34.804	27.806	37.011	45.781
2500	2.463	2.271	34.813	27.822	37.032	45.806
2600	2.406	2.206	34.809	27.824	37.039	45.816
2700	2.328	2.120	34.804	27.827	37.046	45.828
2800	2.198	1.982	34.801	27.835	37.062	45.852
2900	2.052	1.830	34.784	27.834	37.069	45.867
3000	1.896	1.668	34.770	27.835	37.080	45.886
3250	1.532	1.287	34.741	27.839	37.106	45.932
3500	1.226	.964	34.727	27.850	37.136	45.979
3750	.951	.670	34.710	27.854	37.157	46.018
4000	.705	.405	34.698	27.860	37.179	46.054
4250	.462	.143	34.683	27.863	37.197	46.086
4500	.326	-.016	34.670	27.861	37.205	46.103
4750	.267	-.102	34.667	27.863	37.212	46.115
5000	.230	-.166	34.662	27.862	37.214	46.121
5250	.221	-.203	34.653	27.857	37.212	46.121
5500	.219	-.236	34.648	27.854	37.211	46.122
5589	.232	-.235	34.646	27.852	37.210	46.120



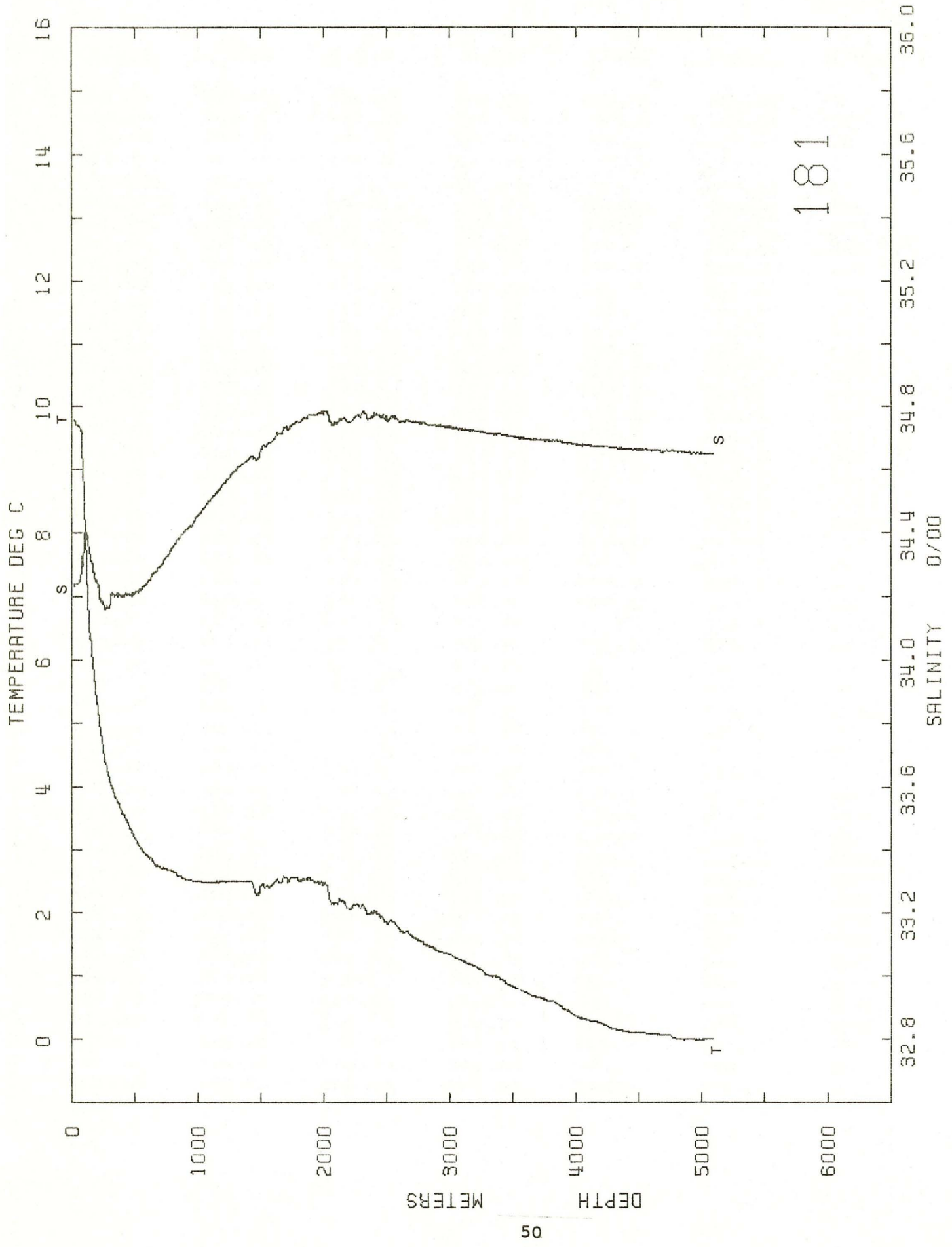
CONRAD 16 STATION 179
 04 /05/1973 GMT=0858 46 57.45 44 06.2W PDR=5280

DEPTH	TEMP	THETA	SALT	SIG-0	SIG-2	SIG-4
20	13.479	13.476	34.412	25.861	34.560	42.861
30	13.476	13.472	34.413	25.862	34.561	42.863
50	11.581	11.575	34.359	26.191	34.965	43.337
75	9.562	9.553	34.324	26.519	35.380	43.831
100	8.340	8.330	34.542	26.884	35.796	44.293
125	7.813	7.800	34.526	26.951	35.887	44.408
150	6.853	6.839	34.412	26.999	35.982	44.545
200	5.369	5.353	34.270	27.077	36.135	44.767
250	4.731	4.712	34.223	27.114	36.205	44.868
300	4.360	4.338	34.208	27.143	36.253	44.934
400	3.922	3.894	34.195	27.179	36.313	45.016
500	3.520	3.486	34.198	27.222	36.377	45.100
600	3.243	3.202	34.219	27.265	36.435	45.172
700	3.014	2.968	34.254	27.315	36.497	45.244
800	2.830	2.777	34.295	27.364	36.556	45.313
900	2.764	2.704	34.346	27.412	36.606	45.366
1000	2.676	2.610	34.395	27.459	36.658	45.421
1100	2.626	2.553	34.438	27.498	36.699	45.465
1200	2.532	2.452	34.482	27.542	36.748	45.518
1300	2.484	2.396	34.531	27.586	36.795	45.567
1400	2.493	2.398	34.576	27.622	36.829	45.601
1500	2.536	2.433	34.618	27.652	36.857	45.627
1600	2.510	2.398	34.648	27.679	36.885	45.656
1700	2.577	2.456	34.686	27.705	36.908	45.674
1800	2.649	2.519	34.725	27.730	36.928	45.692
1900	2.632	2.493	34.747	27.750	36.950	45.714
2000	2.714	2.565	34.781	27.771	36.966	45.726
2100	2.603	2.447	34.780	27.781	36.982	45.748
2200	2.419	2.257	34.769	27.787	37.000	45.776
2300	2.525	2.351	34.799	27.803	37.010	45.780
2400	2.487	2.305	34.807	27.814	37.022	45.796
2500	2.461	2.270	34.818	27.826	37.036	45.810
2600	2.373	2.174	34.819	27.834	37.051	45.829
2700	2.242	2.035	34.808	27.836	37.060	45.846
2800	2.039	1.827	34.786	27.835	37.071	45.869
2900	1.827	1.610	34.760	27.831	37.079	45.889
3000	1.733	1.508	34.753	27.833	37.088	45.902
3250	1.416	1.174	34.735	27.842	37.116	45.948
3500	1.125	.865	34.718	27.849	37.140	45.990
3750	.877	.599	34.706	27.855	37.163	46.026
4000	.583	.287	34.692	27.862	37.188	46.069
4250	.395	.077	34.680	27.864	37.202	46.095
4500	.268	-.072	34.671	27.865	37.212	46.113
4750	.206	-.160	34.665	27.864	37.217	46.123
5000	.191	-.203	34.659	27.862	37.216	46.126
5250	.187	-.236	34.654	27.860	37.216	46.127
5343	.196	-.239	34.653	27.859	37.216	46.127



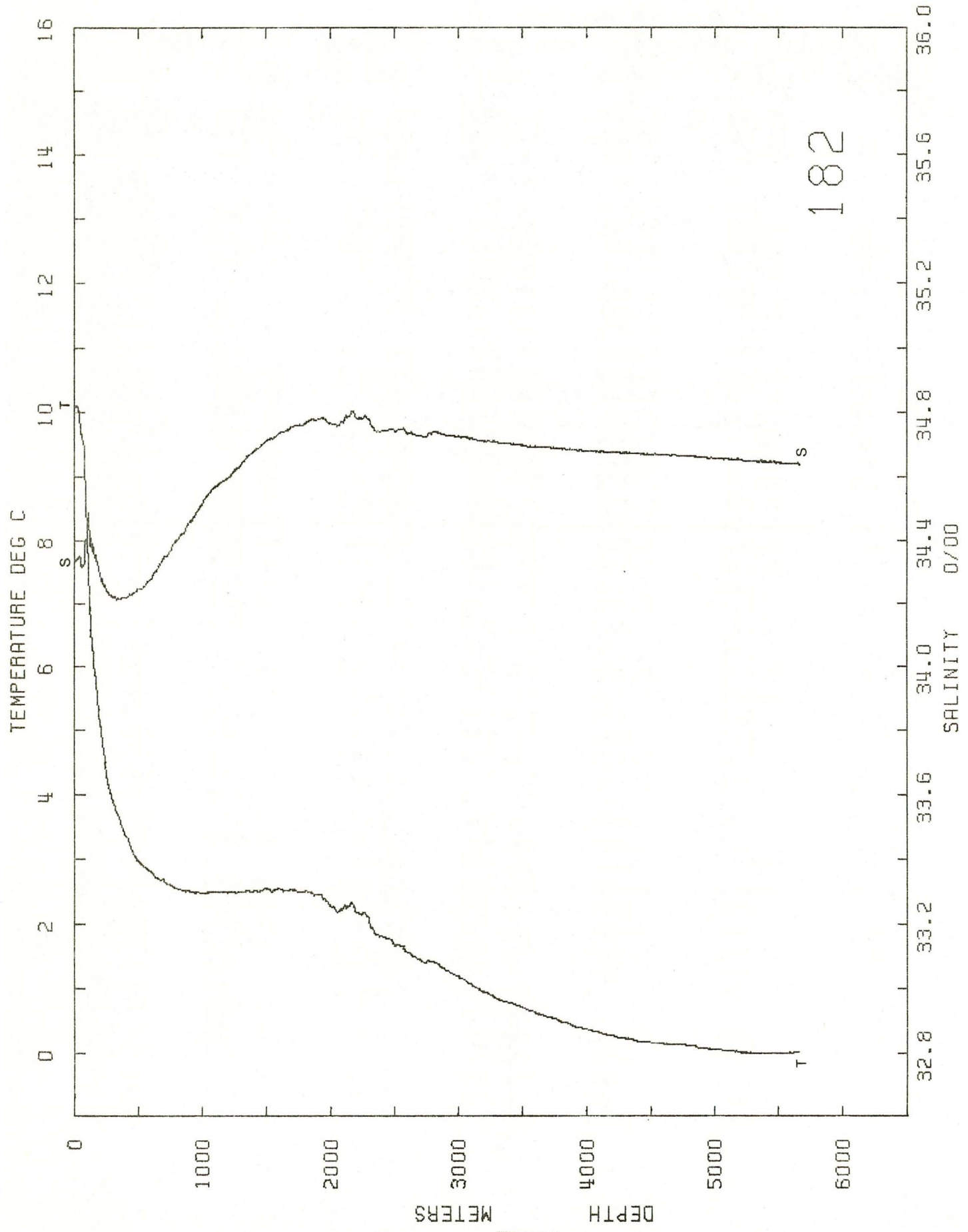
CONRAD 16 STATION 180
 04 /07/1973 GMT=1759 49 05.1S 35 20.7W PDR=5057

DEPTH	TEMP	THETA	SALT	SIG-0	SIG-2	SIG-4
9	10.443	10.442	34.346	26.385	35.207	43.622
10	10.448	10.446	34.344	26.383	35.204	43.619
20	10.456	10.453	34.342	26.380	35.202	43.616
30	10.458	10.455	34.343	26.381	35.203	43.617
50	10.462	10.456	34.352	26.388	35.209	43.623
75	10.481	10.473	34.381	26.407	35.227	43.641
100	8.460	8.450	34.568	26.887	35.792	44.285
125	7.437	7.425	34.483	26.973	35.927	44.463
150	6.947	6.933	34.452	27.018	35.996	44.554
200	5.228	5.212	34.301	27.119	36.183	44.821
250	4.406	4.388	34.231	27.156	36.263	44.942
300	3.966	3.945	34.213	27.188	36.318	45.019
400	3.534	3.507	34.204	27.224	36.378	45.100
500	3.167	3.135	34.210	27.264	36.438	45.178
600	2.855	2.817	34.244	27.320	36.511	45.266
700	2.821	2.775	34.303	27.371	36.562	45.319
800	2.625	2.574	34.347	27.424	36.625	45.392
900	2.553	2.495	34.412	27.482	36.687	45.456
1000	2.510	2.445	34.462	27.526	36.733	45.504
1100	2.448	2.376	34.513	27.573	36.783	45.557
1200	2.419	2.340	34.559	27.613	36.824	45.599
1300	2.534	2.447	34.616	27.649	36.854	45.622
1400	2.473	2.378	34.638	27.673	36.881	45.652
1500	2.522	2.418	34.674	27.698	36.903	45.672
1600	2.502	2.390	34.701	27.722	36.928	45.698
1700	2.481	2.361	34.725	27.744	36.951	45.722
1800	2.432	2.305	34.740	27.760	36.971	45.744
1900	2.388	2.253	34.749	27.772	36.985	45.761
2000	2.323	2.180	34.759	27.786	37.003	45.782
2100	2.345	2.193	34.781	27.802	37.018	45.797
2200	2.296	2.135	34.789	27.813	37.032	45.813
2300	2.190	2.022	34.785	27.819	37.044	45.832
2400	2.114	1.938	34.788	27.828	37.058	45.850
2500	1.891	1.710	34.760	27.824	37.066	45.870
2600	1.773	1.585	34.754	27.828	37.078	45.889
2700	1.630	1.436	34.744	27.830	37.089	45.907
2800	1.433	1.234	34.726	27.830	37.101	45.930
2900	1.280	1.075	34.712	27.830	37.109	45.947
3000	1.216	1.003	34.715	27.837	37.121	45.962
3250	1.032	.799	34.713	27.849	37.144	45.997
3500	.756	.505	34.696	27.853	37.166	46.035
3750	.648	.376	34.689	27.856	37.176	46.052
4000	.494	.200	34.684	27.861	37.192	46.078
4250	.408	.090	34.679	27.863	37.200	46.092
4500	.251	-.089	34.673	27.867	37.215	46.117
4750	.157	-.208	34.665	27.867	37.222	46.131
5000	.097	-.294	34.662	27.868	37.228	46.142
5107	-.064	-.461	34.649	27.866	37.236	46.159



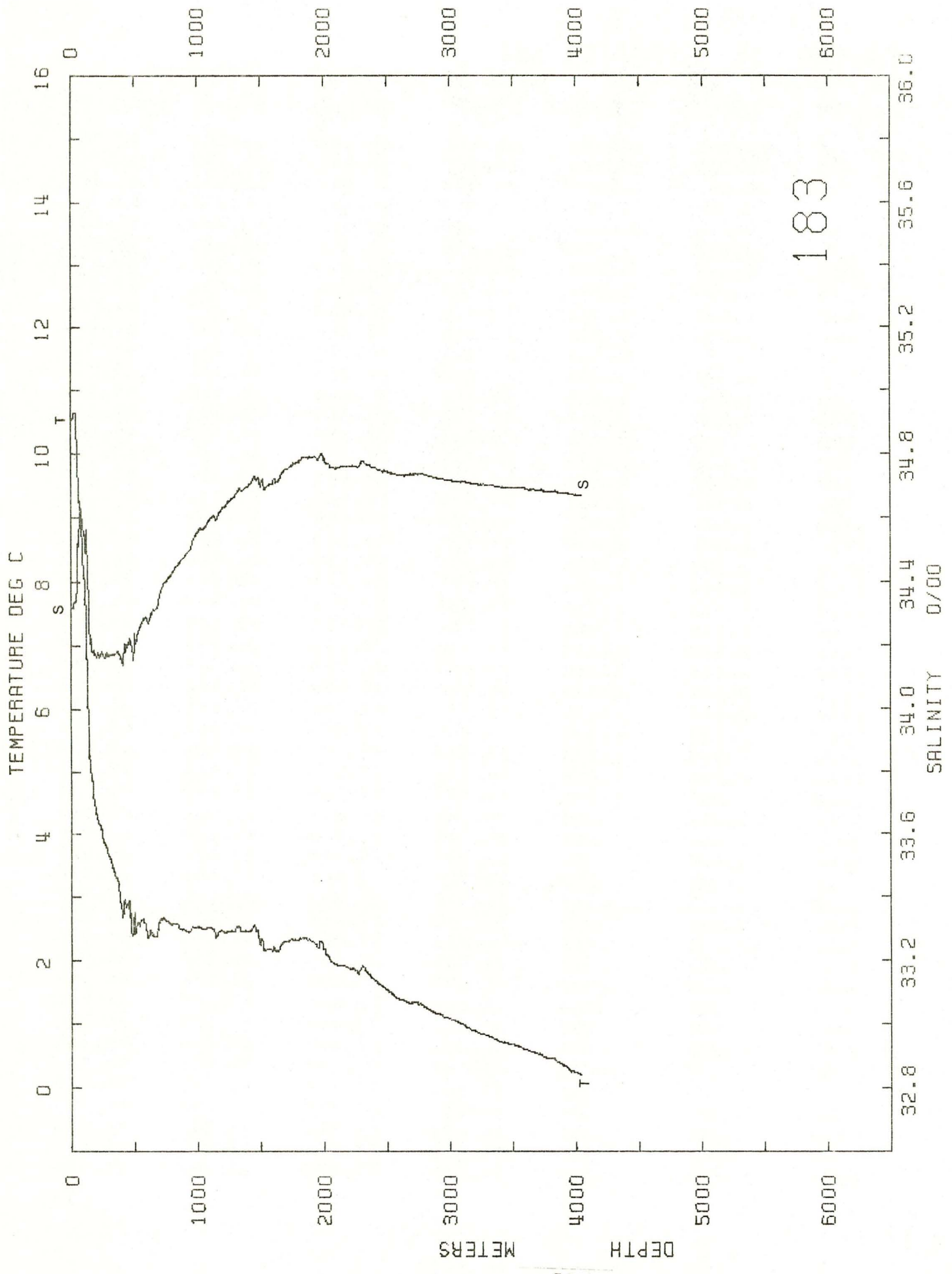
CONRAD 16 STATION 181
 04 /08/1973 GMT=1655 48 54.2S 36 39.8W PDR=4960

DEPTH	TEMP	THETA	SALT	SIG-0	SIG-2	SIG-4
17	9.787	9.785	34.233	26.410	35.262	43.704
10	9.786	9.784	34.234	26.411	35.263	43.704
20	9.779	9.777	34.236	26.414	35.266	43.708
30	9.735	9.731	34.240	26.424	35.278	43.723
50	9.694	9.689	34.242	26.433	35.288	43.735
75	9.521	9.512	34.280	26.492	35.355	43.807
100	8.364	8.354	34.384	26.757	35.670	44.169
125	7.164	7.152	34.386	26.935	35.903	44.454
150	6.362	6.349	34.316	26.989	35.997	44.583
200	5.337	5.321	34.249	27.064	36.124	44.758
250	4.607	4.588	34.181	27.094	36.192	44.861
300	4.119	4.098	34.171	27.139	36.262	44.955
400	3.606	3.579	34.203	27.217	36.367	45.085
500	3.195	3.162	34.211	27.262	36.435	45.173
600	2.910	2.871	34.244	27.315	36.503	45.256
700	2.724	2.679	34.296	27.374	36.570	45.332
800	2.658	2.607	34.356	27.428	36.627	45.391
900	2.530	2.472	34.408	27.481	36.688	45.458
1000	2.495	2.430	34.455	27.522	36.730	45.502
1100	2.483	2.411	34.504	27.563	36.771	45.543
1200	2.492	2.413	34.552	27.601	36.808	45.579
1300	2.505	2.417	34.598	27.637	36.843	45.613
1400	2.498	2.403	34.631	27.665	36.871	45.642
1500	2.427	2.324	34.659	27.694	36.904	45.678
1600	2.478	2.367	34.694	27.718	36.925	45.697
1700	2.544	2.423	34.733	27.745	36.949	45.716
1800	2.514	2.385	34.749	27.761	36.966	45.735
1900	2.524	2.386	34.772	27.779	36.984	45.753
2000	2.461	2.315	34.779	27.791	36.999	45.773
2100	2.155	2.006	34.746	27.789	37.016	45.804
2200	2.075	1.918	34.749	27.799	37.030	45.824
2300	2.104	1.938	34.775	27.818	37.048	45.840
2400	2.020	1.846	34.774	27.824	37.059	45.856
2500	1.829	1.649	34.756	27.825	37.072	45.878
2600	1.741	1.554	34.752	27.828	37.080	45.892
2700	1.626	1.432	34.750	27.836	37.094	45.913
2800	1.495	1.295	34.745	27.842	37.108	45.934
2900	1.399	1.191	34.737	27.842	37.115	45.947
3000	1.345	1.128	34.734	27.844	37.120	45.955
3250	1.091	.856	34.718	27.849	37.141	45.991
3500	.822	.570	34.703	27.855	37.164	46.029
3750	.625	.353	34.691	27.858	37.180	46.057
4000	.361	.071	34.678	27.863	37.201	46.094
4250	.200	-.111	34.670	27.866	37.216	46.119
4500	.099	-.236	34.662	27.866	37.222	46.133
4750	.046	-.315	34.658	27.866	37.228	46.143
5000	-.022	-.409	34.649	27.864	37.231	46.151
5085	-.013	-.410	34.649	27.863	37.230	46.151



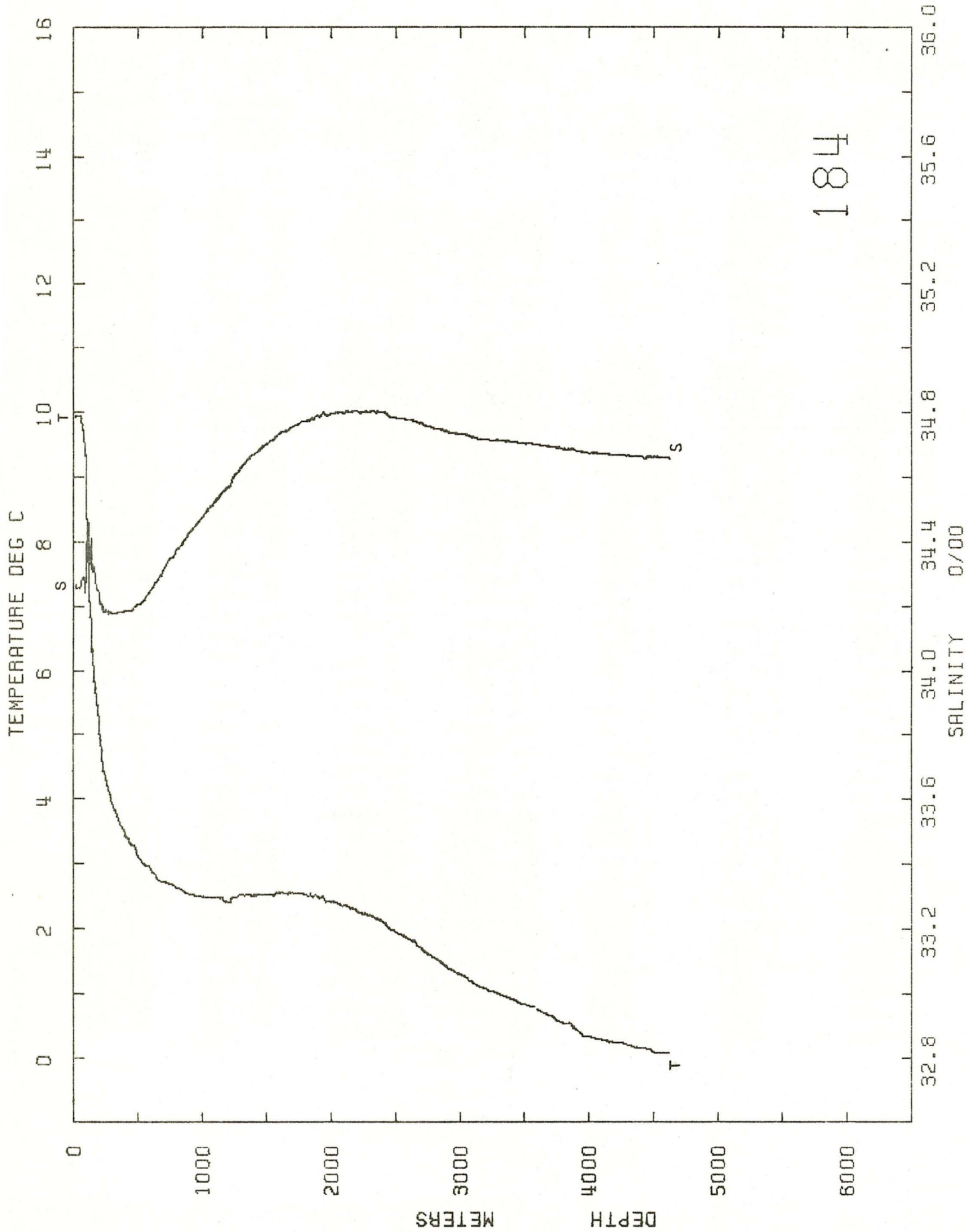
CONRAD 16 STATION 182
 04 /09/1973 GMT=0920 49 06.55 36 39.2W PDR=5586

DEPTH	TEMP	THETA	SALT	SIG-0	SIG-2	SIG-4
6	10.083	10.082	34.336	26.440	35.277	43.706
10	10.085	10.083	34.339	26.441	35.279	43.708
20	10.089	10.087	34.342	26.443	35.280	43.709
30	10.047	10.043	34.347	26.455	35.293	43.725
50	9.683	9.678	34.327	26.501	35.355	43.802
75	9.424	9.415	34.338	26.553	35.420	43.875
100	8.017	8.007	34.440	26.854	35.782	44.294
125	6.689	6.677	34.388	27.002	35.992	44.563
150	6.075	6.062	34.370	27.069	36.090	44.688
200	5.076	5.060	34.288	27.126	36.197	44.844
250	4.283	4.265	34.242	27.178	36.291	44.975
300	3.889	3.868	34.220	27.202	36.336	45.040
400	3.365	3.339	34.220	27.254	36.416	45.146
500	2.965	2.933	34.247	27.313	36.496	45.247
600	2.808	2.770	34.281	27.354	36.546	45.303
700	2.677	2.633	34.348	27.420	36.618	45.382
800	2.552	2.501	34.402	27.474	36.679	45.448
900	2.510	2.452	34.459	27.524	36.730	45.501
1000	2.486	2.421	34.520	27.574	36.781	45.553
1100	2.502	2.430	34.571	27.614	36.820	45.590
1200	2.490	2.411	34.598	27.638	36.844	45.615
1300	2.504	2.416	34.637	27.669	36.874	45.644
1400	2.511	2.416	34.680	27.703	36.908	45.677
1500	2.550	2.446	34.711	27.725	36.929	45.695
1600	2.545	2.433	34.736	27.746	36.950	45.716
1700	2.530	2.410	34.756	27.764	36.968	45.736
1800	2.507	2.378	34.768	27.776	36.982	45.751
1900	2.455	2.318	34.779	27.790	36.999	45.771
2000	2.278	2.136	34.766	27.795	37.013	45.796
2100	2.249	2.098	34.772	27.803	37.024	45.808
2200	2.185	2.026	34.785	27.819	37.044	45.831
2300	2.050	1.885	34.777	27.824	37.057	45.851
2400	1.811	1.641	34.743	27.815	37.062	45.870
2500	1.669	1.493	34.741	27.825	37.080	45.896
2600	1.562	1.379	34.735	27.828	37.089	45.911
2700	1.441	1.250	34.728	27.831	37.100	45.930
2800	1.415	1.216	34.738	27.842	37.112	45.943
2900	1.285	1.080	34.729	27.844	37.123	45.961
3000	1.183	.970	34.725	27.847	37.133	45.976
3250	.905	.675	34.709	27.854	37.156	46.016
3500	.710	.461	34.697	27.857	37.172	46.044
3750	.532	.263	34.689	27.861	37.189	46.070
4000	.373	.082	34.681	27.865	37.203	46.095
4250	.243	-.069	34.674	27.867	37.213	46.114
4500	.170	-.168	34.669	27.868	37.221	46.127
4750	.133	-.231	34.666	27.869	37.225	46.135
5000	.066	-.324	34.661	27.869	37.232	46.147
5250	.009	-.408	34.658	27.870	37.238	46.158
5500	-.005	-.451	34.658	27.873	37.242	46.165
5656	.013	-.453	34.658	27.872	37.242	46.164



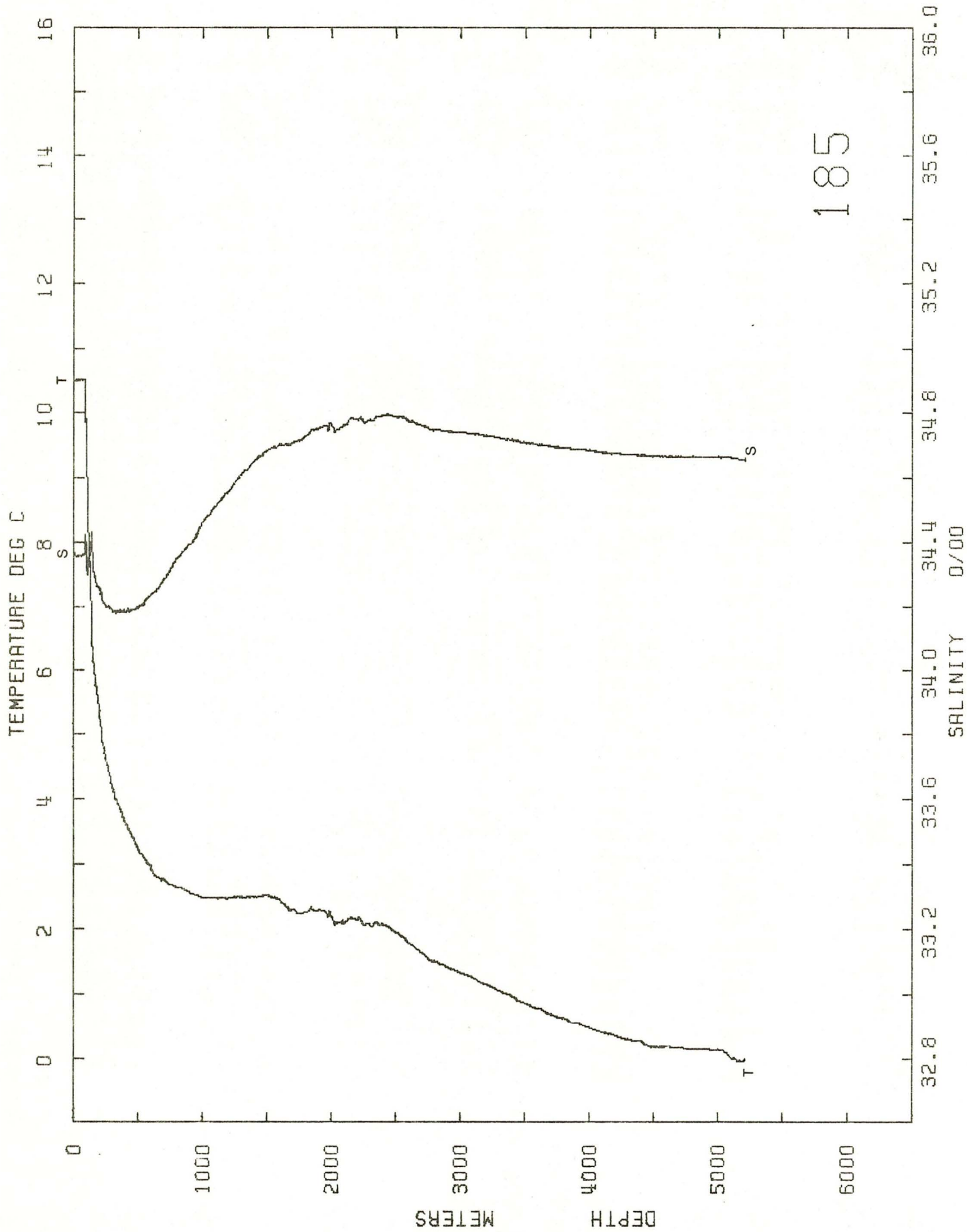
CONRAD 16 STATION 183
 04 /09/1973 GMT=1616 49 12.6S 36 38.6W PDR=4243

DEPTH	TEMP	THETA	SALT	SIG-0	SIG-2	SIG-4
12	10.537	10.535	34.318	26.347	35.166	43.577
10	10.547	10.545	34.319	26.346	35.164	43.575
20	10.628	10.626	34.333	26.343	35.158	43.565
30	10.641	10.638	34.338	26.344	35.159	43.565
50	9.881	9.875	34.453	26.566	35.410	43.846
75	9.093	9.085	34.619	26.826	35.703	44.168
100	8.185	8.175	34.555	26.919	35.837	44.341
125	6.772	6.760	34.477	27.060	36.046	44.612
150	5.127	5.116	34.218	27.064	36.134	44.779
200	4.271	4.256	34.167	27.119	36.234	44.920
250	3.897	3.879	34.169	27.160	36.295	44.999
300	3.617	3.597	34.172	27.190	36.340	45.058
400	2.714	2.690	34.154	27.260	36.458	45.222
500	2.564	2.533	34.217	27.324	36.529	45.300
600	2.392	2.356	34.282	27.390	36.604	45.383
700	2.627	2.583	34.363	27.435	36.636	45.402
800	2.569	2.518	34.428	27.493	36.697	45.465
900	2.478	2.420	34.482	27.545	36.752	45.524
1000	2.528	2.463	34.555	27.599	36.803	45.572
1100	2.523	2.451	34.596	27.633	36.838	45.605
1200	2.458	2.379	34.630	27.666	36.874	45.646
1300	2.491	2.404	34.669	27.695	36.901	45.671
1400	2.463	2.368	34.698	27.722	36.929	45.700
1500	2.314	2.212	34.704	27.739	36.954	45.734
1600	2.179	2.071	34.714	27.758	36.981	45.767
1700	2.304	2.186	34.751	27.779	36.995	45.775
1800	2.347	2.221	34.775	27.795	37.009	45.787
1900	2.306	2.171	34.788	27.810	37.026	45.806
2000	2.171	2.029	34.781	27.816	37.040	45.828
2100	1.925	1.780	34.753	27.813	37.051	45.853
2200	1.869	1.716	34.760	27.823	37.065	45.869
2300	1.905	1.742	34.773	27.832	37.072	45.874
2400	1.684	1.516	34.756	27.835	37.088	45.902
2500	1.523	1.349	34.743	27.836	37.099	45.923
2600	1.385	1.205	34.732	27.838	37.109	45.941
2700	1.333	1.145	34.732	27.842	37.117	45.951
2800	1.264	1.069	34.733	27.848	37.127	45.965
2900	1.154	.952	34.722	27.846	37.133	45.977
3000	1.072	.862	34.715	27.847	37.138	45.988
3250	.844	.615	34.701	27.851	37.157	46.020
3500	.674	.425	34.691	27.854	37.171	46.045
3750	.470	.203	34.682	27.859	37.190	46.076
4000	.233	-.053	34.669	27.862	37.208	46.108
4038	.193	-.096	34.669	27.865	37.213	46.115



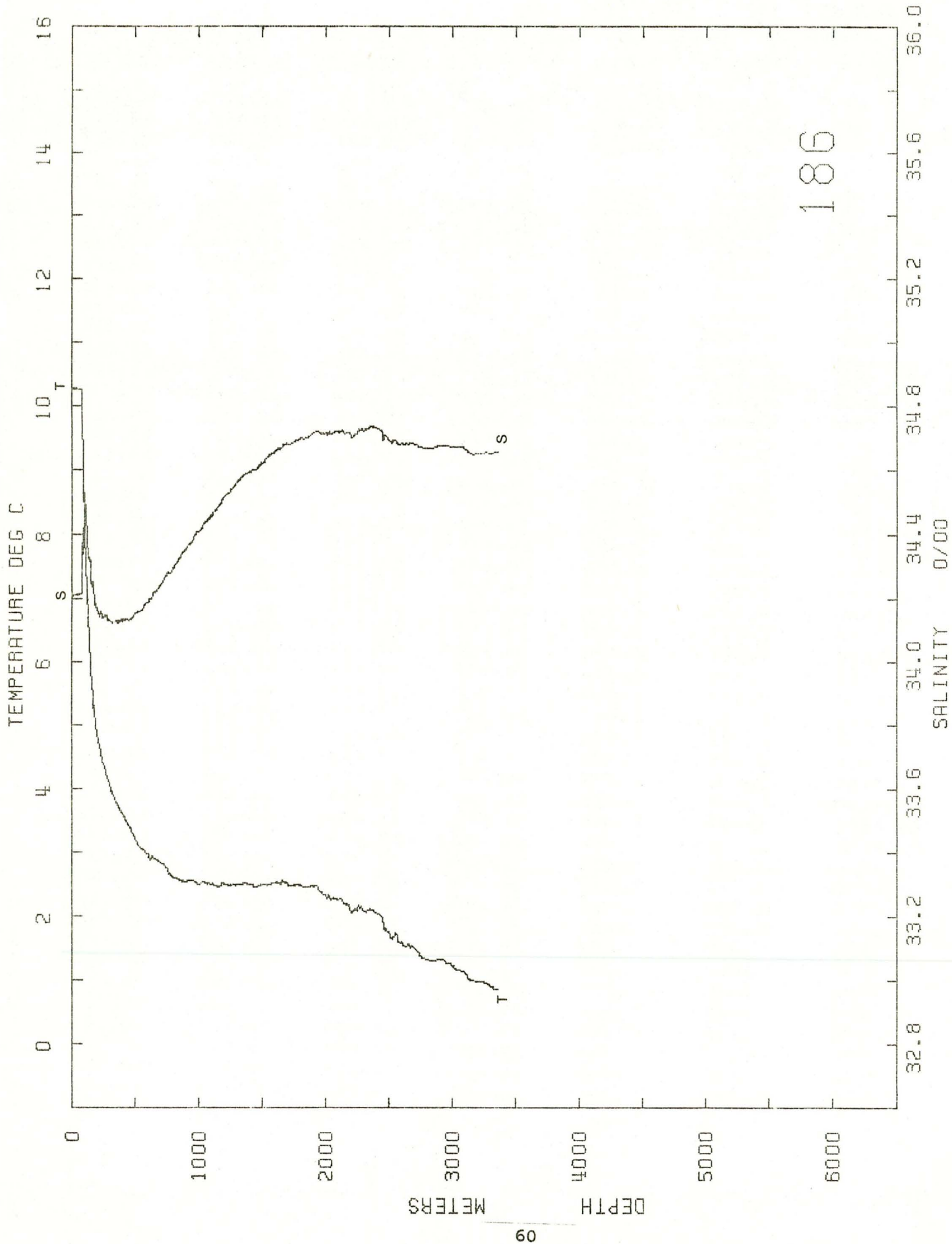
CONRAD 16 STATION 184
 04 /10/1973 GMT=0202 48 09.05 36 14.0W PDR=4620

DEPTH	TEMP	THETA	SALT	SIG-0	SIG-2	SIG-4
15	9.922	9.920	34.268	26.414	35.259	43.696
10	9.928	9.926	34.263	26.409	35.254	43.691
20	9.933	9.930	34.255	26.403	35.247	43.684
30	9.937	9.934	34.257	26.403	35.248	43.685
50	9.940	9.935	34.259	26.404	35.249	43.685
75	9.677	9.669	34.284	26.469	35.325	43.772
100	8.841	8.830	34.335	26.645	35.537	44.017
125	7.003	6.992	34.336	26.918	35.896	44.453
150	6.204	6.191	34.323	27.015	36.031	44.624
200	5.152	5.137	34.233	27.074	36.143	44.786
250	4.312	4.294	34.187	27.131	36.244	44.927
300	3.911	3.890	34.181	27.168	36.302	45.005
400	3.440	3.413	34.188	27.221	36.380	45.107
500	3.102	3.070	34.207	27.268	36.446	45.189
600	2.907	2.869	34.253	27.323	36.511	45.263
700	2.715	2.671	34.316	27.391	36.588	45.349
800	2.622	2.571	34.377	27.448	36.650	45.415
900	2.525	2.467	34.431	27.500	36.706	45.476
1000	2.490	2.425	34.477	27.540	36.748	45.519
1100	2.482	2.410	34.527	27.581	36.789	45.560
1200	2.405	2.327	34.568	27.621	36.833	45.608
1300	2.513	2.425	34.630	27.662	36.867	45.637
1400	2.511	2.415	34.670	27.695	36.900	45.670
1500	2.516	2.412	34.703	27.722	36.927	45.696
1600	2.551	2.439	34.735	27.745	36.948	45.715
1700	2.552	2.431	34.755	27.761	36.964	45.731
1800	2.524	2.395	34.773	27.779	36.984	45.753
1900	2.473	2.337	34.787	27.795	37.003	45.774
2000	2.413	2.268	34.794	27.807	37.018	45.793
2100	2.357	2.204	34.798	27.815	37.029	45.808
2200	2.267	2.106	34.803	27.827	37.047	45.830
2300	2.208	2.040	34.802	27.832	37.055	45.841
2400	2.093	1.918	34.799	27.839	37.069	45.862
2500	1.943	1.761	34.782	27.837	37.077	45.878
2600	1.846	1.657	34.775	27.840	37.085	45.892
2700	1.683	1.488	34.764	27.843	37.098	45.915
2800	1.549	1.347	34.749	27.841	37.104	45.928
2900	1.399	1.191	34.739	27.844	37.117	45.949
3000	1.296	1.080	34.732	27.846	37.125	45.962
3250	1.033	.800	34.713	27.849	37.144	45.997
3500	.836	.583	34.703	27.854	37.163	46.027
3750	.591	.320	34.689	27.858	37.182	46.061
4000	.334	.045	34.674	27.861	37.201	46.096
4250	.236	-.076	34.667	27.862	37.209	46.111
4500	.101	-.234	34.662	27.865	37.222	46.133
4623	.086	-.263	34.656	27.862	37.221	46.132



CONRAD 16 STATION 185
 04 /10/1973 GMT=0716 49 08.35 35 52.5W PDR=5154

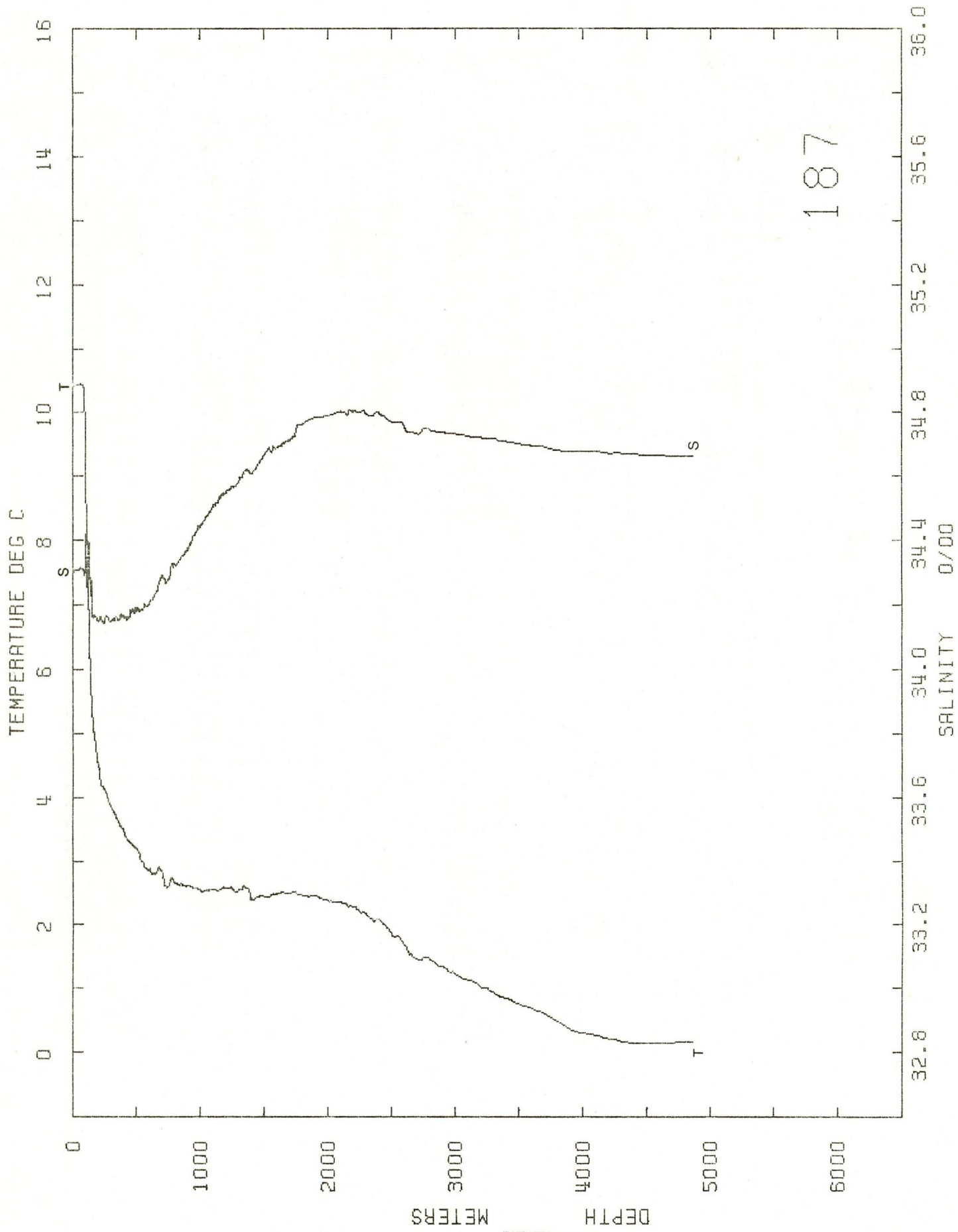
DEPTH	TEMP	THETA	SALT	SIG-0	SIG-2	SIG-4
11	10.508	10.506	34.368	26.391	35.210	43.623
10	10.508	10.506	34.366	26.389	35.208	43.621
20	10.511	10.508	34.356	26.381	35.201	43.612
30	10.509	10.505	34.358	26.383	35.203	43.615
50	10.512	10.506	34.359	26.384	35.203	43.615
75	10.511	10.502	34.360	26.386	35.205	43.617
100	9.271	9.260	34.337	26.577	35.451	43.912
125	7.651	7.638	34.370	26.853	35.799	44.328
150	6.213	6.200	34.325	27.016	36.031	44.623
200	5.348	5.331	34.257	27.069	36.128	44.761
250	4.612	4.593	34.201	27.110	36.206	44.876
300	4.185	4.164	34.186	27.144	36.263	44.954
400	3.645	3.617	34.185	27.198	36.346	45.063
500	3.234	3.201	34.201	27.251	36.421	45.158
600	2.942	2.904	34.238	27.308	36.494	45.245
700	2.764	2.720	34.285	27.361	36.556	45.316
800	2.644	2.592	34.349	27.424	36.624	45.390
900	2.559	2.501	34.396	27.469	36.673	45.443
1000	2.483	2.419	34.465	27.531	36.739	45.512
1100	2.477	2.405	34.514	27.571	36.779	45.551
1200	2.473	2.394	34.560	27.609	36.817	45.589
1300	2.489	2.402	34.612	27.650	36.857	45.628
1400	2.491	2.395	34.653	27.683	36.889	45.660
1500	2.511	2.407	34.685	27.708	36.913	45.682
1600	2.433	2.322	34.702	27.728	36.938	45.711
1700	2.298	2.180	34.707	27.744	36.961	45.742
1800	2.261	2.136	34.729	27.765	36.985	45.767
1900	2.289	2.154	34.752	27.783	37.000	45.782
2000	2.199	2.058	34.762	27.798	37.021	45.807
2100	2.096	1.947	34.762	27.807	37.037	45.828
2200	2.149	1.991	34.779	27.817	37.044	45.833
2300	2.065	1.900	34.778	27.823	37.055	45.849
2400	2.072	1.897	34.793	27.835	37.068	45.861
2500	1.945	1.763	34.787	27.841	37.080	45.881
2600	1.783	1.595	34.774	27.844	37.092	45.902
2700	1.638	1.444	34.760	27.843	37.101	45.919
2800	1.506	1.305	34.747	27.843	37.108	45.934
2900	1.411	1.203	34.743	27.846	37.118	45.949
3000	1.331	1.115	34.740	27.850	37.126	45.962
3250	1.105	.870	34.727	27.856	37.147	45.996
3500	.862	.609	34.708	27.857	37.163	46.027
3750	.650	.377	34.694	27.859	37.179	46.055
4000	.489	.195	34.684	27.862	37.192	46.079
4250	.325	.010	34.673	27.862	37.204	46.101
4500	.191	-.147	34.667	27.865	37.217	46.122
4750	.168	-.197	34.665	27.866	37.221	46.129
5000	.143	-.249	34.664	27.868	37.226	46.137
5214	-.092	-.502	34.659	27.876	37.248	46.174



CONRAD 16 STATION 186
 04 /10/1973 GMT=1547 48 52.25 34 54.2W PDR=3391

DEPTH	TEMP	THETA	SALT	SIG-0	SIG-2	SIG-4
10	10.271	10.269	34.211	26.310	35.142	43.565
20	10.270	10.268	34.212	26.311	35.143	43.566
30	10.269	10.265	34.212	26.312	35.143	43.566
50	10.268	10.263	34.214	26.313	35.145	43.568
75	10.255	10.246	34.223	26.323	35.156	43.580
100	7.372	7.363	34.408	26.923	35.882	44.422
125	6.941	6.930	34.373	26.956	35.935	44.495
150	5.868	5.855	34.272	27.018	36.051	44.659
200	4.851	4.836	34.165	27.054	36.139	44.798
250	4.380	4.362	34.144	27.089	36.199	44.880
300	4.049	4.028	34.131	27.114	36.242	44.939
400	3.599	3.572	34.133	27.162	36.313	45.032
500	3.195	3.162	34.154	27.217	36.391	45.130
600	2.964	2.925	34.191	27.268	36.454	45.204
700	2.835	2.790	34.244	27.323	36.515	45.271
800	2.610	2.559	34.293	27.382	36.585	45.353
900	2.545	2.488	34.357	27.439	36.646	45.417
1000	2.507	2.443	34.410	27.485	36.693	45.465
1100	2.504	2.432	34.459	27.525	36.733	45.504
1200	2.511	2.431	34.517	27.572	36.778	45.549
1300	2.498	2.411	34.561	27.609	36.816	45.587
1400	2.502	2.407	34.594	27.635	36.842	45.613
1500	2.493	2.390	34.622	27.659	36.866	45.637
1600	2.525	2.414	34.658	27.686	36.891	45.661
1700	2.511	2.391	34.681	27.706	36.912	45.682
1800	2.487	2.358	34.698	27.722	36.929	45.701
1900	2.471	2.334	34.715	27.738	36.947	45.719
2000	2.318	2.175	34.715	27.751	36.968	45.749
2100	2.266	2.115	34.718	27.758	36.979	45.763
2200	2.073	1.916	34.705	27.763	36.995	45.790
2300	2.087	1.921	34.723	27.778	37.009	45.803
2400	2.054	1.879	34.730	27.787	37.020	45.816
2500	1.728	1.550	34.690	27.779	37.032	45.846
2600	1.582	1.398	34.682	27.784	37.046	45.867
2700	1.494	1.302	34.681	27.790	37.057	45.884
2800	1.324	1.127	34.669	27.792	37.070	45.906
2900	1.317	1.112	34.676	27.799	37.076	45.913
3000	1.225	1.012	34.671	27.802	37.085	45.927
3250	.968	.737	34.654	27.805	37.105	45.963
3363	.864	.625	34.657	27.815	37.121	45.985

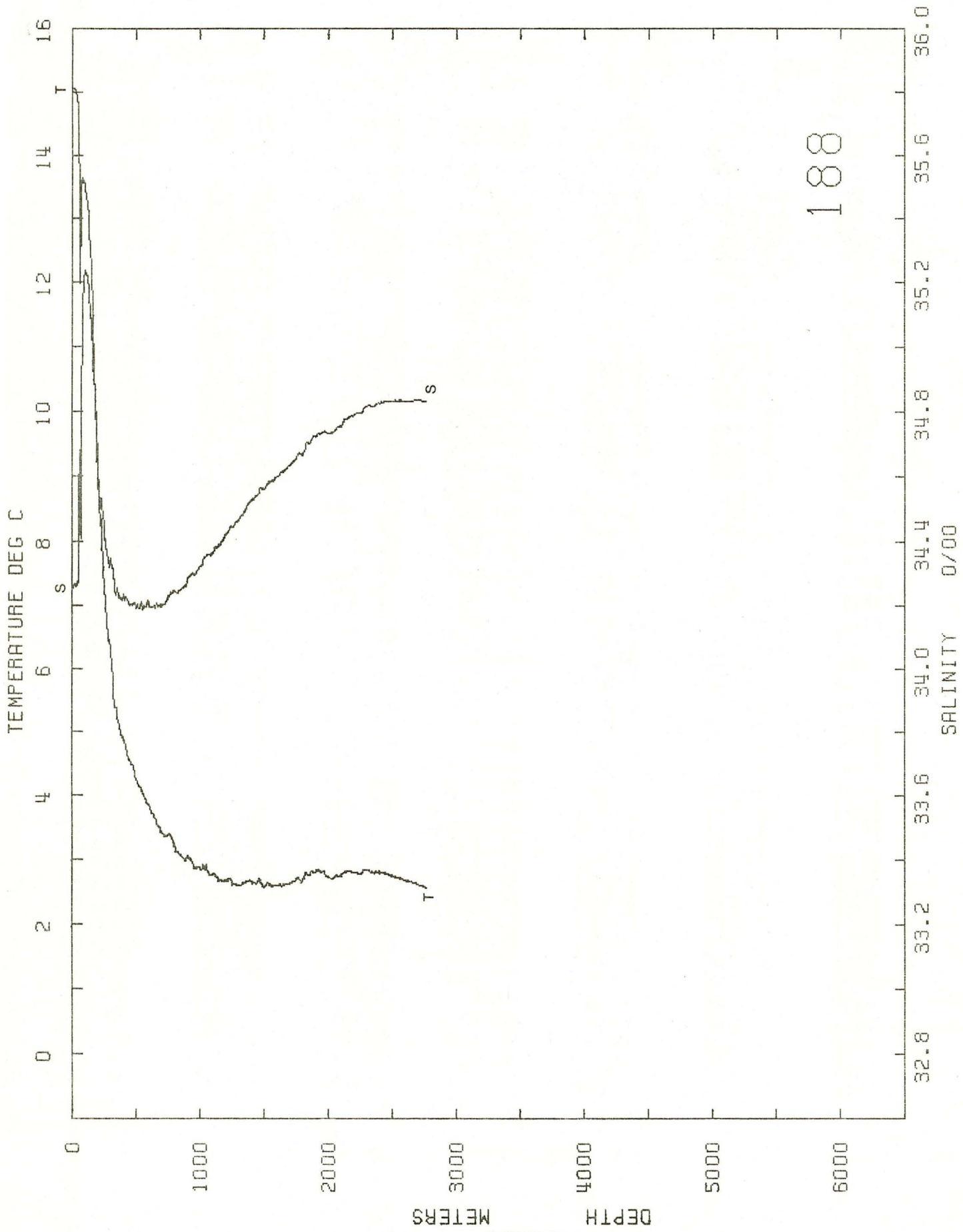
Data below 2500 m are taken from the analog data plots. Absolute salinity values questionable.



CONRAD 16 STATION 187
 04 /10/1973 GMT=2125 49 03.9S 35 18.4W PDR=4908

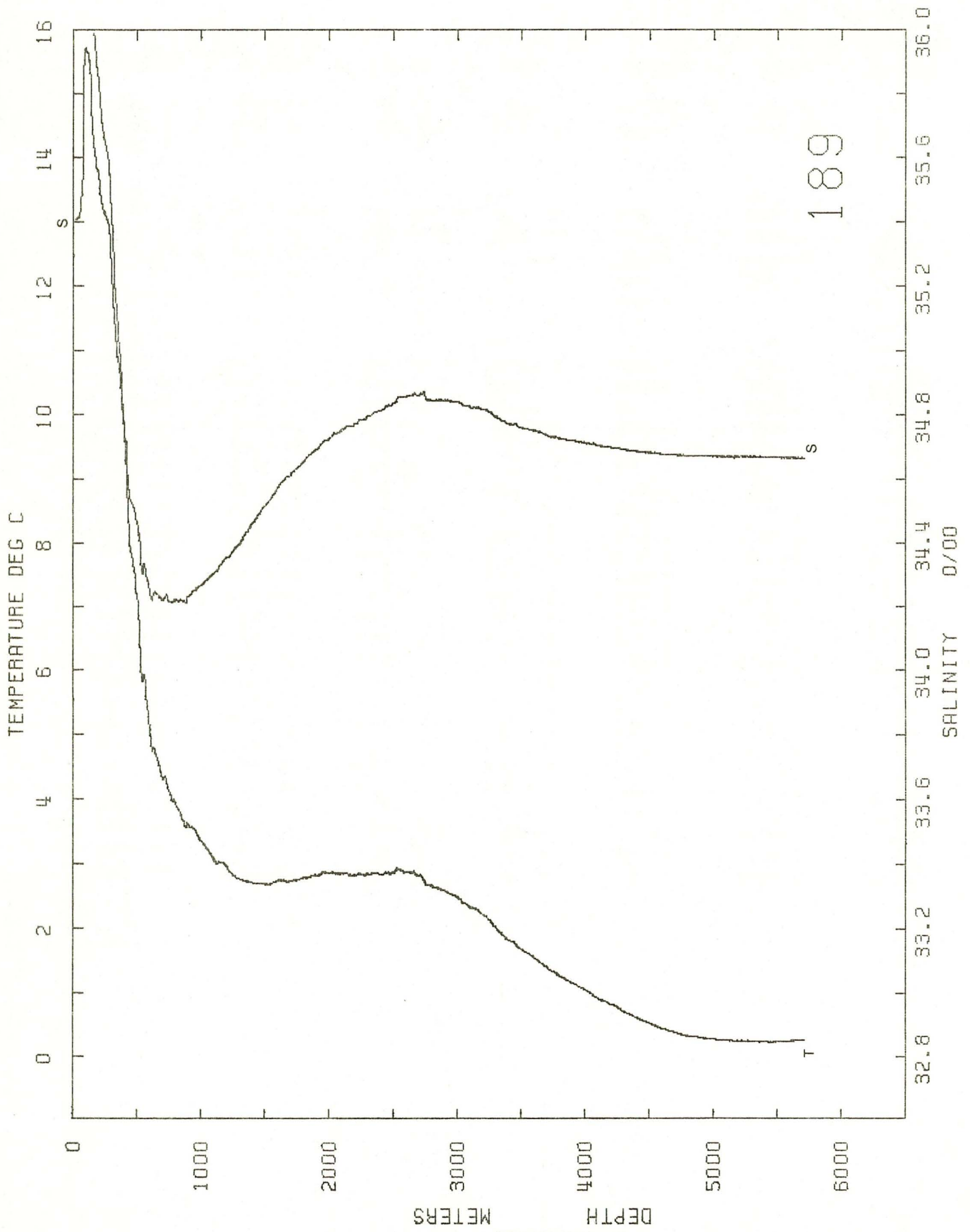
DEPTH	TEMP	THETA	SALT	SIG-0	SIG-2	SIG-4
10	10.429	10.428	34.303	26.354	35.178	43.593
20	10.434	10.432	34.307	26.356	35.179	43.595
30	10.437	10.433	34.308	26.357	35.180	43.596
50	10.446	10.440	34.310	26.358	35.181	43.596
75	10.435	10.426	34.312	26.361	35.184	43.600
100	9.087	9.076	34.395	26.652	35.533	44.002
125	6.909	6.897	34.357	26.948	35.929	44.490
150	5.375	5.363	34.172	26.999	36.057	44.690
200	4.498	4.483	34.150	27.081	36.185	44.860
250	4.117	4.099	34.156	27.127	36.250	44.943
300	3.865	3.845	34.152	27.150	36.286	44.992
400	3.494	3.467	34.163	27.196	36.353	45.077
500	3.215	3.182	34.184	27.240	36.411	45.149
600	2.867	2.828	34.205	27.288	36.478	45.234
700	2.843	2.798	34.289	27.358	36.549	45.304
800	2.666	2.615	34.325	27.403	36.603	45.367
900	2.623	2.564	34.372	27.445	36.647	45.413
1000	2.546	2.481	34.446	27.511	36.715	45.485
1100	2.554	2.482	34.508	27.560	36.765	45.533
1200	2.585	2.505	34.554	27.595	36.796	45.563
1300	2.551	2.463	34.585	27.623	36.827	45.595
1400	2.404	2.310	34.609	27.655	36.867	45.643
1500	2.453	2.350	34.667	27.698	36.908	45.680
1600	2.494	2.382	34.687	27.711	36.918	45.689
1700	2.503	2.383	34.712	27.731	36.938	45.708
1800	2.462	2.334	34.764	27.777	36.985	45.757
1900	2.445	2.309	34.783	27.794	37.003	45.776
2000	2.374	2.230	34.789	27.806	37.020	45.796
2100	2.355	2.202	34.802	27.818	37.033	45.811
2200	2.276	2.116	34.802	27.825	37.045	45.827
2300	2.163	1.995	34.794	27.828	37.055	45.843
2400	2.072	1.897	34.796	27.838	37.069	45.863
2500	1.831	1.651	34.768	27.834	37.080	45.887
2600	1.680	1.495	34.753	27.834	37.089	45.905
2700	1.450	1.260	34.730	27.832	37.101	45.929
2800	1.445	1.245	34.743	27.844	37.113	45.942
2900	1.333	1.126	34.735	27.845	37.121	45.957
3000	1.218	1.004	34.730	27.849	37.133	45.974
3250	.993	.761	34.717	27.854	37.152	46.007
3500	.737	.487	34.698	27.856	37.169	46.039
3750	.530	.261	34.683	27.857	37.184	46.067
4000	.281	-.007	34.676	27.865	37.209	46.105
4250	.187	-.124	34.670	27.867	37.217	46.120
4500	.145	-.192	34.663	27.865	37.218	46.127
4750	.151	-.213	34.660	27.863	37.218	46.128
4861	.152	-.225	34.658	27.862	37.219	46.128

Data below 1750 m are taken from the analog data plots.



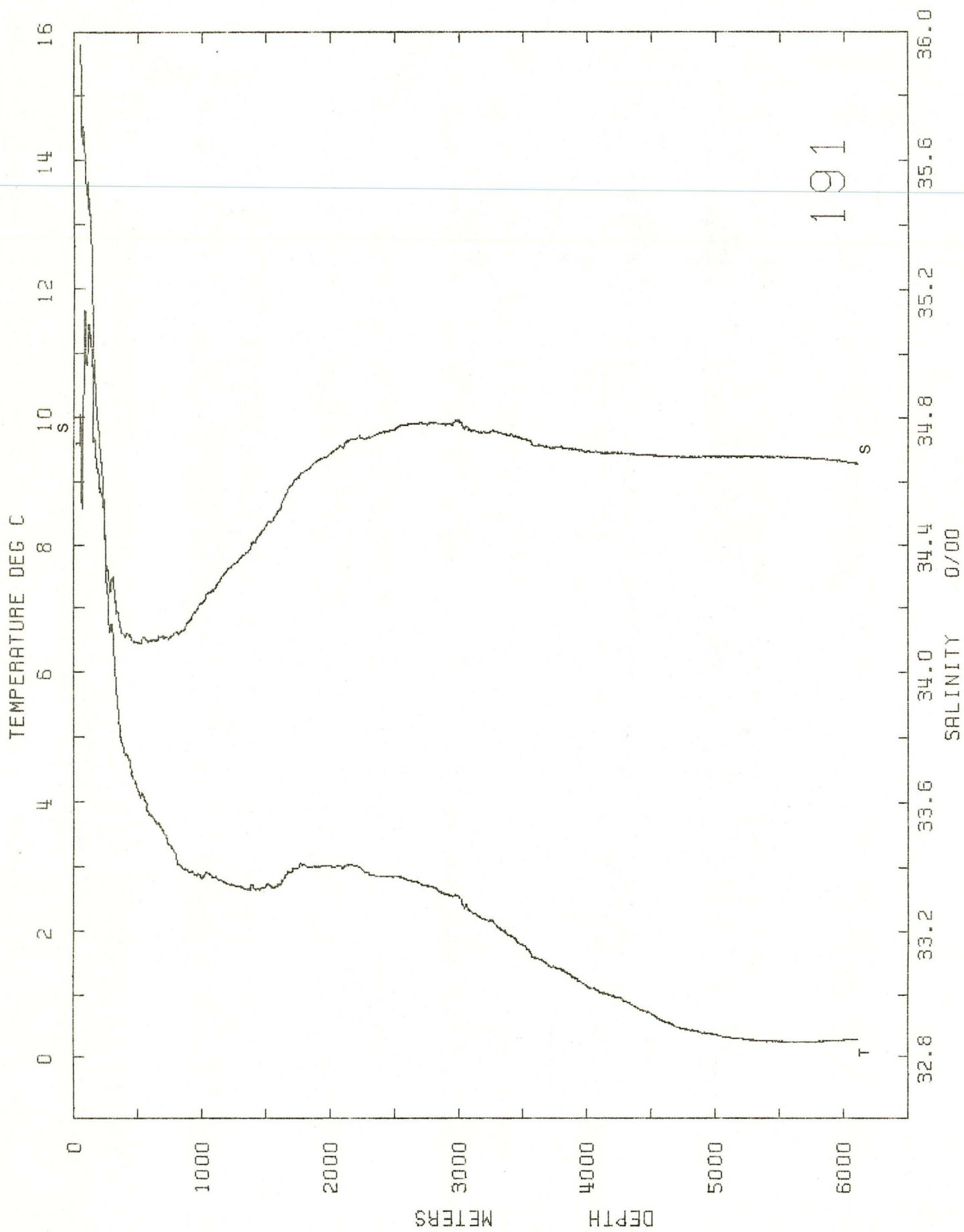
CONRAD 16 STATION 188
 04 /15/1973 GMT=1402 42 58.6S 47 57.6W PDR=5289

DEPTH	TEMP	THETA	SALT	SIG-0	SIG-2	SIG-4
8	15.057	15.056	34.257	25.406	34.049	42.298
10	15.057	15.056	34.262	25.410	34.053	42.303
20	15.052	15.049	34.265	25.414	34.057	42.306
30	15.003	14.998	34.264	25.424	34.070	42.320
50	14.625	14.617	34.375	25.592	34.249	42.512
75	13.585	13.574	35.046	26.329	35.016	43.306
100	13.493	13.479	35.232	26.493	35.181	43.472
125	13.047	13.029	35.189	26.551	35.257	43.565
150	12.082	12.063	35.060	26.642	35.388	43.732
200	8.910	8.888	34.616	26.855	35.741	44.214
250	7.234	7.210	34.429	26.961	35.926	44.473
300	6.218	6.191	34.335	27.025	36.040	44.633
400	4.869	4.838	34.231	27.106	36.191	44.848
500	4.236	4.199	34.196	27.148	36.265	44.954
600	3.836	3.793	34.199	27.192	36.331	45.038
700	3.421	3.372	34.200	27.234	36.396	45.124
800	3.185	3.130	34.244	27.292	36.465	45.206
900	3.039	2.978	34.280	27.334	36.515	45.262
1000	2.850	2.783	34.325	27.388	36.579	45.334
1100	2.773	2.699	34.368	27.430	36.624	45.384
1200	2.667	2.586	34.421	27.482	36.682	45.446
1300	2.601	2.512	34.468	27.526	36.729	45.496
1400	2.661	2.564	34.527	27.568	36.768	45.532
1500	2.576	2.472	34.562	27.604	36.808	45.576
1600	2.594	2.481	34.599	27.633	36.835	45.602
1700	2.629	2.508	34.635	27.659	36.860	45.624
1800	2.673	2.542	34.670	27.684	36.882	45.645
1900	2.814	2.673	34.724	27.716	36.906	45.662
2000	2.727	2.578	34.733	27.732	36.927	45.687
2100	2.760	2.601	34.757	27.748	36.942	45.700
2200	2.805	2.636	34.789	27.771	36.962	45.719
2300	2.840	2.661	34.818	27.792	36.982	45.736
2400	2.801	2.613	34.825	27.802	36.994	45.750
2500	2.747	2.550	34.832	27.813	37.008	45.768
2600	2.680	2.475	34.832	27.819	37.019	45.782
2700	2.615	2.401	34.836	27.829	37.032	45.800
2761	2.569	2.350	34.834	27.831	37.038	45.808



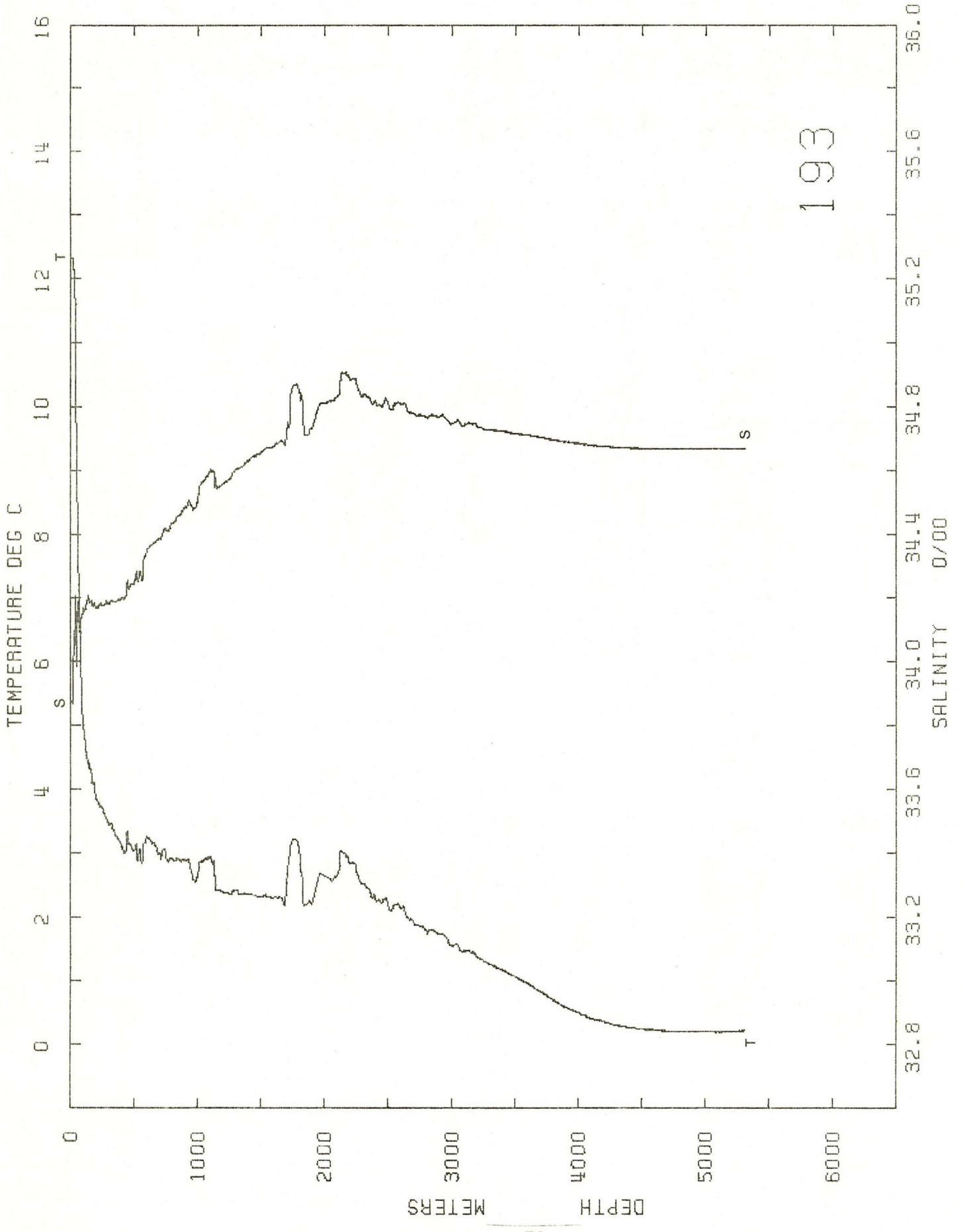
CONRAD 16 STATION 189
 04 /16/1973 GMT=0024 42 34.55 49 02.1W PDR=5602

DEPTH	TEMP	THETA	SALT	SIG-0	SIG-2	SIG-4
20	18.745	18.741	35.409	25.417	33.921	42.040
30	18.759	18.753	35.411	25.416	33.919	42.037
50	18.767	18.758	35.419	25.421	33.924	42.042
75	18.907	18.894	35.540	25.479	33.976	42.089
100	17.844	17.826	35.942	26.054	34.580	42.720
125	17.440	17.418	35.901	26.122	34.662	42.815
150	16.288	16.264	35.697	26.240	34.821	43.013
200	15.124	15.093	35.540	26.385	35.010	43.242
250	14.236	14.199	35.425	26.491	35.150	43.413
300	13.089	13.047	35.236	26.584	35.288	43.595
400	9.654	9.608	34.742	26.836	35.688	44.130
500	7.148	7.100	34.463	27.003	35.972	44.524
600	5.029	4.980	34.241	27.098	36.175	44.825
700	4.315	4.261	34.220	27.161	36.275	44.960
800	3.930	3.871	34.220	27.201	36.335	45.039
900	3.608	3.543	34.232	27.244	36.395	45.114
1000	3.358	3.287	34.268	27.296	36.461	45.193
1100	3.072	2.995	34.305	27.353	36.533	45.278
1200	2.963	2.879	34.354	27.402	36.588	45.338
1300	2.772	2.682	34.400	27.456	36.651	45.411
1400	2.718	2.620	34.463	27.512	36.710	45.472
1500	2.699	2.594	34.517	27.558	36.756	45.518
1600	2.741	2.626	34.574	27.600	36.796	45.556
1700	2.739	2.617	34.617	27.635	36.831	45.591
1800	2.786	2.654	34.654	27.662	36.854	45.611
1900	2.819	2.677	34.691	27.689	36.880	45.636
2000	2.855	2.704	34.726	27.715	36.903	45.657
2100	2.857	2.697	34.755	27.738	36.926	45.681
2200	2.826	2.656	34.772	27.756	36.946	45.702
2300	2.846	2.667	34.795	27.773	36.963	45.717
2400	2.852	2.663	34.814	27.789	36.978	45.733
2500	2.870	2.671	34.837	27.807	36.995	45.748
2600	2.882	2.673	34.858	27.823	37.011	45.764
2700	2.827	2.609	34.862	27.832	37.024	45.779
2800	2.664	2.439	34.845	27.833	37.034	45.799
2900	2.597	2.363	34.846	27.840	37.045	45.814
3000	2.490	2.248	34.839	27.844	37.056	45.831
3250	2.130	1.871	34.807	27.849	37.082	45.877
3500	1.682	1.408	34.759	27.844	37.105	45.924
3750	1.342	1.050	34.730	27.846	37.127	45.966
4000	1.050	.740	34.712	27.852	37.151	46.007
4250	.785	.455	34.696	27.856	37.171	46.044
4500	.529	.180	34.682	27.860	37.192	46.079
4750	.350	-.021	34.674	27.864	37.208	46.106
5000	.277	-.120	34.671	27.867	37.217	46.121
5250	.246	-.180	34.670	27.869	37.222	46.130
5500	.233	-.222	34.667	27.869	37.225	46.135
5711	.258	-.224	34.665	27.867	37.223	46.133



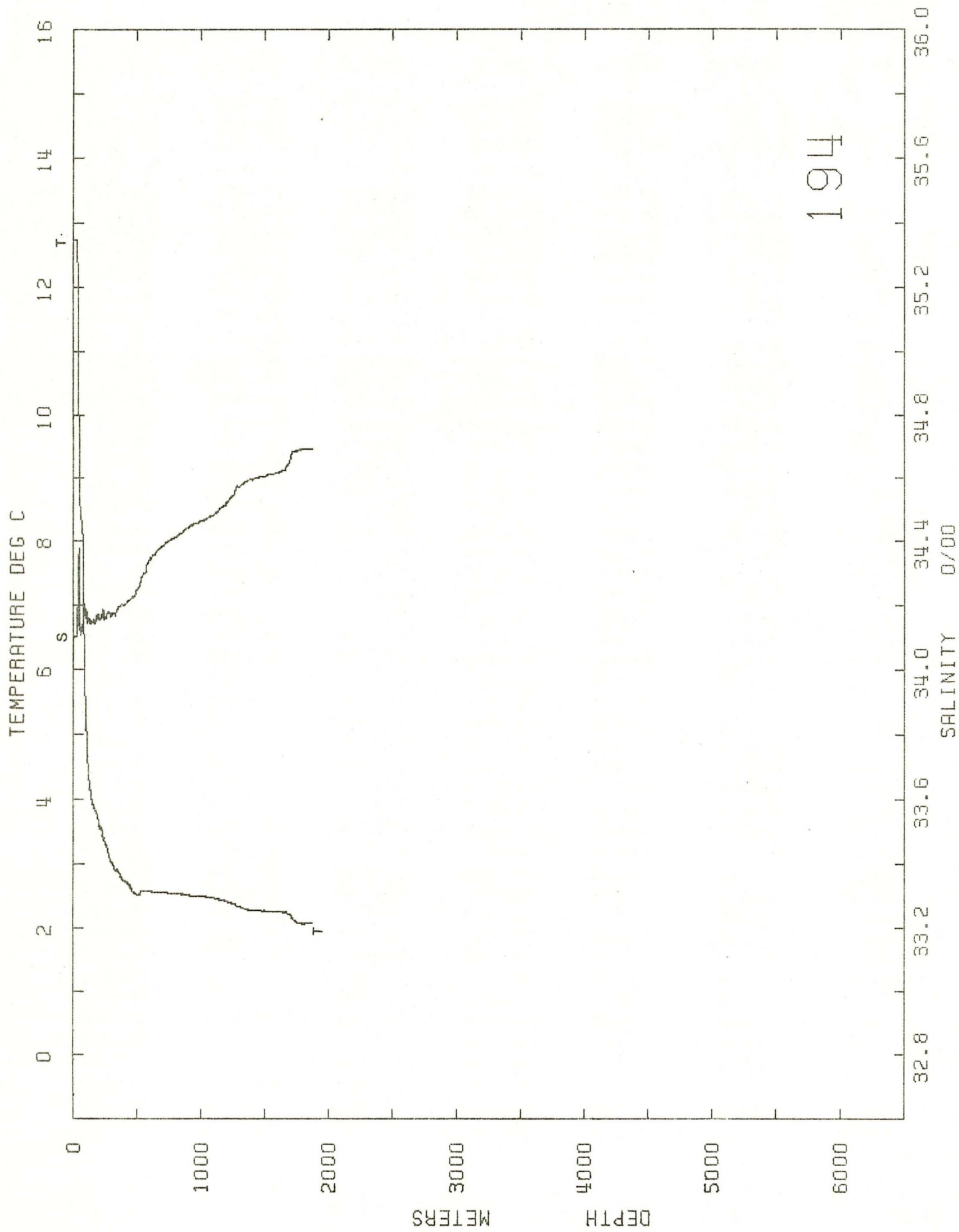
CONRAD 16 STATION 191
 04 /16/1973 GMT=1221 42 00.35 50 02.2N PDR=5750

DEPTH	TEMP	THETA	SALT	SIG-0	SIG-2	SIG-4
10	17.699	17.698	34.719	25.150	33.695	41.854
20	17.700	17.696	34.719	25.150	33.695	41.854
30	17.696	17.691	34.719	25.152	33.697	41.857
50	17.363	17.354	34.734	25.244	33.801	41.970
75	14.396	14.385	34.904	26.049	34.708	42.972
100	13.530	13.516	34.981	26.291	34.982	43.274
125	13.189	13.171	35.045	26.411	35.114	43.418
150	11.046	11.027	34.821	26.650	35.441	43.827
200	9.554	9.532	34.594	26.733	35.591	44.038
250	7.611	7.587	34.382	26.870	35.818	44.350
300	6.674	6.647	34.290	26.929	35.923	44.496
400	4.735	4.704	34.111	27.026	36.119	44.784
500	4.172	4.135	34.091	27.071	36.194	44.887
600	3.781	3.738	34.098	27.117	36.261	44.973
700	3.522	3.474	34.106	27.150	36.307	45.032
800	3.162	3.108	34.124	27.199	36.376	45.118
900	2.925	2.865	34.159	27.248	36.437	45.191
1000	2.845	2.778	34.215	27.301	36.494	45.251
1100	2.846	2.771	34.262	27.339	36.531	45.289
1200	2.745	2.663	34.322	27.396	36.593	45.355
1300	2.705	2.616	34.358	27.429	36.628	45.392
1400	2.696	2.599	34.410	27.472	36.671	45.434
1500	2.709	2.603	34.463	27.514	36.712	45.475
1600	2.731	2.617	34.512	27.551	36.748	45.510
1700	2.942	2.816	34.590	27.596	36.781	45.531
1800	3.023	2.888	34.633	27.624	36.804	45.550
1900	3.007	2.863	34.664	27.652	36.833	45.579
2000	3.015	2.861	34.687	27.670	36.851	45.597
2100	2.997	2.834	34.709	27.690	36.872	45.619
2200	3.016	2.843	34.736	27.711	36.892	45.638
2300	2.893	2.714	34.736	27.722	36.910	45.663
2400	2.863	2.674	34.753	27.739	36.929	45.684
2500	2.852	2.654	34.763	27.749	36.940	45.695
2600	2.800	2.592	34.779	27.767	36.960	45.719
2700	2.744	2.527	34.783	27.776	36.973	45.734
2800	2.688	2.462	34.783	27.781	36.982	45.747
2900	2.581	2.347	34.779	27.788	36.996	45.767
3000	2.524	2.282	34.787	27.799	37.010	45.784
3250	2.168	1.908	34.755	27.805	37.036	45.830
3500	1.791	1.515	34.733	27.817	37.071	45.885
3750	1.438	1.144	34.707	27.822	37.097	45.932
4000	1.148	.836	34.694	27.831	37.125	45.977
4250	.954	.619	34.689	27.841	37.147	46.010
4500	.696	.342	34.683	27.852	37.175	46.052
4750	.458	.083	34.677	27.862	37.200	46.092
5000	.354	-.046	34.679	27.870	37.215	46.114
5250	.276	-.151	34.679	27.875	37.226	46.133
5500	.248	-.208	34.678	27.877	37.232	46.141
5750	.242	-.244	34.674	27.876	37.233	46.143
6000	.270	-.250	34.664	27.868	37.226	46.136
6112	.284	-.251	34.657	27.862	37.220	46.131



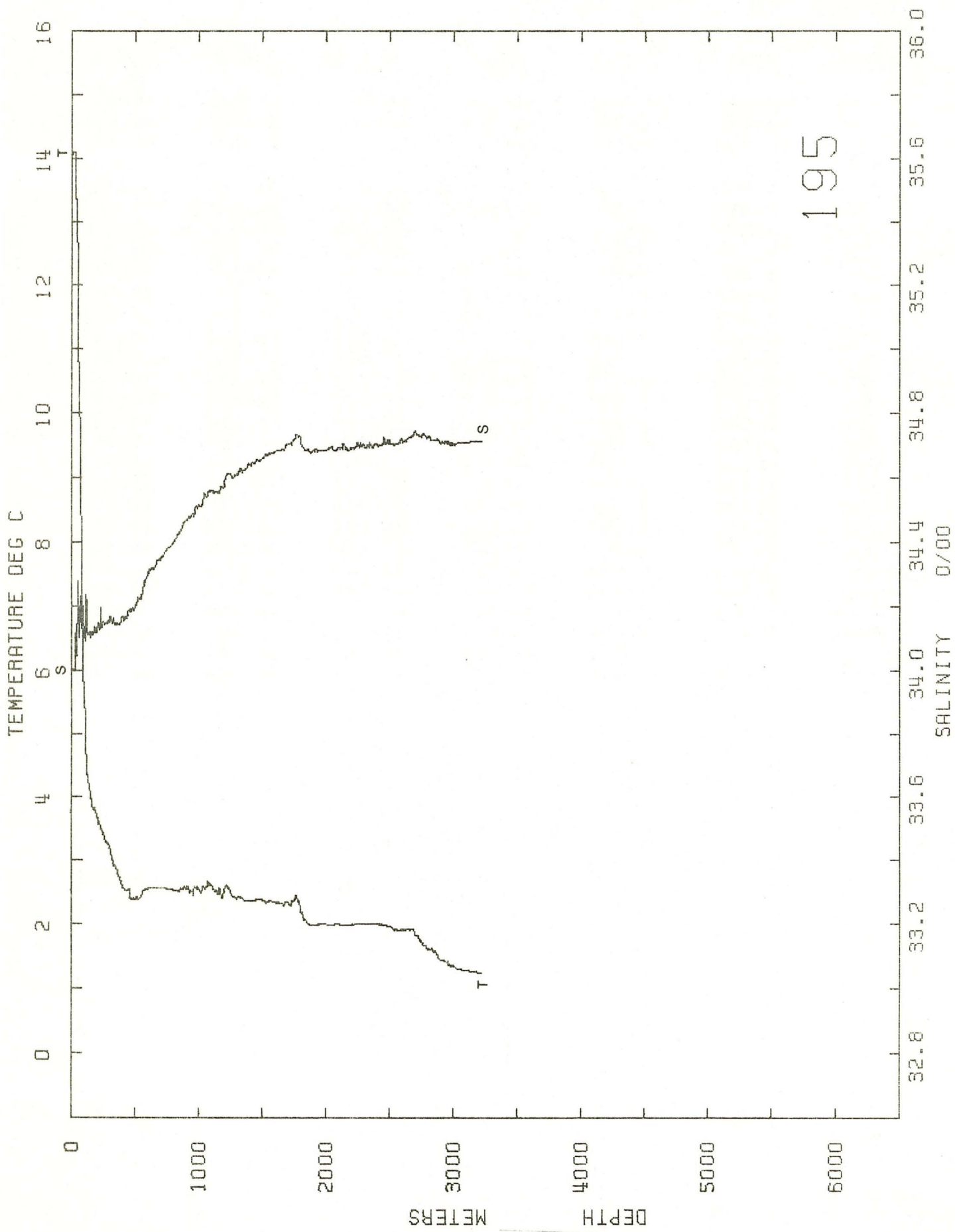
CONRAD 16 STATION 193
 04 /17/1973 GMT=1917 40 31.65 53 02.6W PDR=5252

DEPTH	TEMP	THETA	SALT	SIG-0	SIG-2	SIG-4
7	12.329	12.328	33.874	25.673	34.424	42.774
10	12.326	12.324	33.873	25.672	34.424	42.773
20	12.251	12.248	33.895	25.704	34.459	42.811
30	11.969	11.965	34.086	25.906	34.669	43.029
50	8.942	8.937	34.035	26.393	35.285	43.764
75	6.418	6.411	34.103	26.813	35.821	44.408
100	5.017	5.009	34.164	27.034	36.110	44.760
125	4.561	4.552	34.182	27.099	36.199	44.870
150	4.352	4.341	34.192	27.130	36.241	44.922
200	3.868	3.854	34.167	27.161	36.297	45.002
250	3.701	3.684	34.177	27.186	36.331	45.044
300	3.462	3.442	34.181	27.213	36.370	45.096
400	3.128	3.102	34.196	27.256	36.432	45.174
500	3.044	3.012	34.251	27.308	36.488	45.233
600	3.241	3.201	34.352	27.371	36.539	45.274
700	2.974	2.928	34.388	27.425	36.607	45.354
800	2.900	2.847	34.437	27.471	36.657	45.407
900	2.886	2.825	34.485	27.512	36.698	45.449
1000	2.673	2.607	34.516	27.556	36.753	45.514
1100	2.917	2.841	34.599	27.601	36.784	45.533
1200	2.392	2.314	34.559	27.615	36.828	45.604
1300	2.417	2.330	34.604	27.649	36.860	45.635
1400	2.366	2.272	34.632	27.677	36.890	45.668
1500	2.317	2.216	34.658	27.702	36.918	45.698
1600	2.310	2.201	34.681	27.721	36.938	45.718
1700	2.506	2.386	34.713	27.732	36.938	45.708
1800	2.916	2.781	34.840	27.799	36.982	45.730
1900	2.445	2.309	34.769	27.783	36.993	45.766
2000	2.641	2.492	34.813	27.802	37.001	45.764
2100	2.694	2.536	34.834	27.816	37.012	45.772
2200	2.859	2.689	34.888	27.845	37.033	45.784
2300	2.516	2.343	34.834	27.832	37.039	45.809
2400	2.278	2.099	34.813	27.835	37.056	45.839
2500	2.205	2.018	34.811	27.840	37.066	45.853
2600	2.148	1.953	34.809	27.844	37.072	45.863
2700	1.919	1.719	34.778	27.837	37.079	45.883
2800	1.794	1.587	34.768	27.839	37.088	45.899
2900	1.742	1.526	34.771	27.846	37.098	45.912
3000	1.552	1.331	34.747	27.841	37.105	45.929
3250	1.307	1.068	34.730	27.845	37.124	45.963
3500	1.063	.804	34.716	27.851	37.147	45.999
3750	.762	.486	34.699	27.857	37.170	46.041
4000	.495	.201	34.686	27.862	37.193	46.079
4250	.325	.009	34.674	27.863	37.205	46.102
4500	.239	-.100	34.669	27.865	37.213	46.116
4750	.205	-.161	34.667	27.866	37.219	46.124
5000	.195	-.200	34.667	27.868	37.223	46.132
5250	.204	-.220	34.668	27.870	37.226	46.135
5305	.211	-.220	34.667	27.869	37.225	46.135



CONRAD 16 STATION 194
 04 /19/1973 GMT=1137 39 37.95 54 29.0W PDR=1885

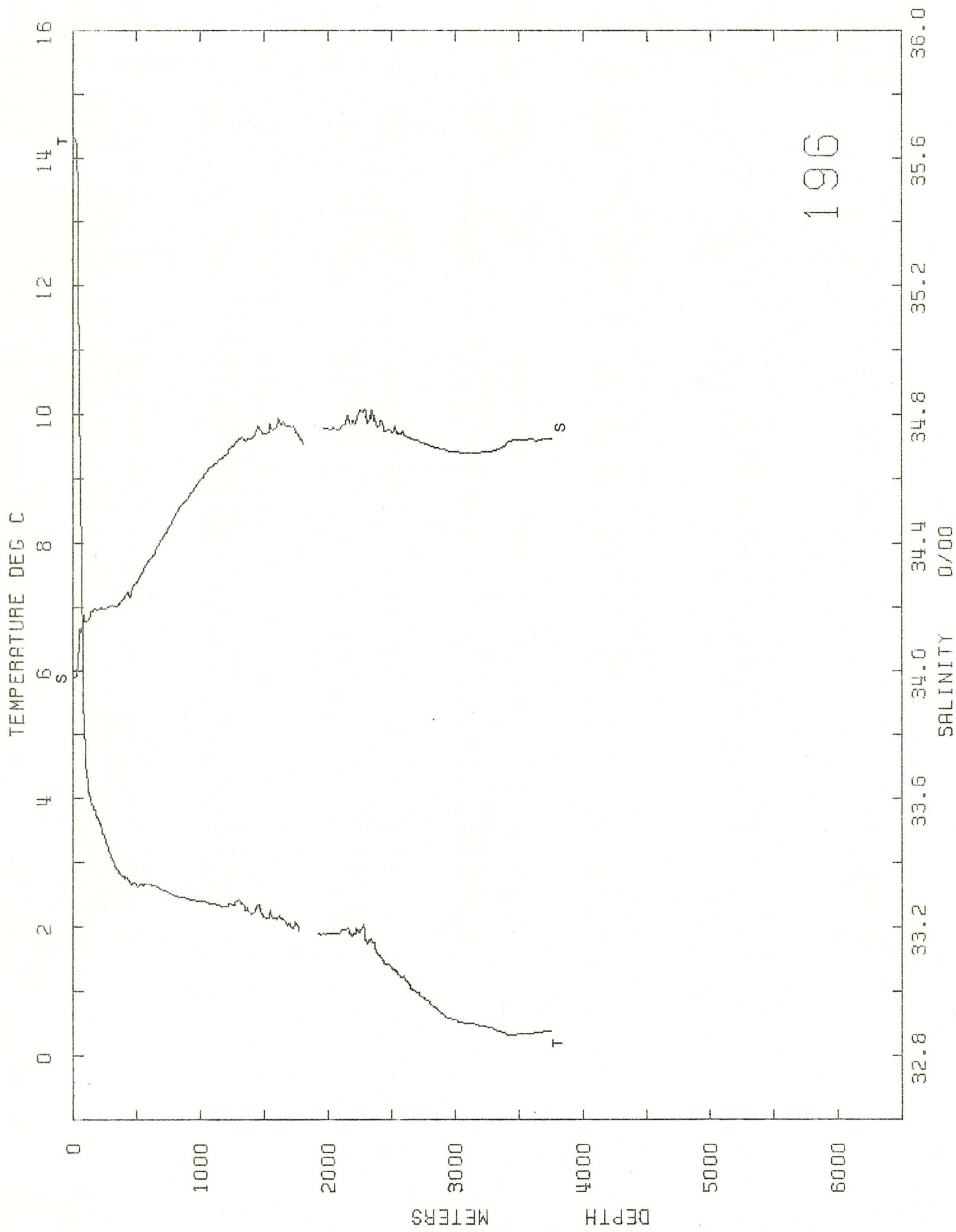
DEPTH	TEMP	THETA	SALT	SIG-0	SIG-2	SIG-4
8	12.734	12.732	34.102	25.770	34.503	42.835
10	12.737	12.736	34.103	25.770	34.502	42.834
20	12.736	12.733	34.104	25.772	34.504	42.836
30	12.569	12.565	34.153	25.842	34.580	42.918
50	8.958	8.953	34.248	26.557	35.445	43.921
75	7.939	7.932	34.169	26.653	35.587	44.107
100	5.379	5.371	34.177	27.002	36.060	44.693
125	4.286	4.277	34.153	27.106	36.220	44.905
150	3.969	3.959	34.148	27.135	36.266	44.966
200	3.627	3.613	34.160	27.179	36.328	45.046
250	3.319	3.303	34.161	27.210	36.375	45.108
300	3.031	3.012	34.172	27.245	36.426	45.173
400	2.740	2.716	34.203	27.297	36.494	45.255
500	2.525	2.495	34.251	27.354	36.561	45.333
600	2.573	2.536	34.345	27.425	36.629	45.397
700	2.562	2.518	34.384	27.458	36.662	45.431
800	2.541	2.490	34.412	27.483	36.689	45.457
900	2.512	2.454	34.443	27.510	36.717	45.488
1000	2.493	2.429	34.464	27.530	36.738	45.510
1100	2.472	2.400	34.484	27.548	36.757	45.530
1200	2.415	2.337	34.522	27.583	36.795	45.570
1300	2.334	2.248	34.574	27.632	36.848	45.627
1400	2.283	2.190	34.595	27.654	36.873	45.655
1500	2.269	2.169	34.606	27.664	36.884	45.667
1600	2.256	2.148	34.616	27.674	36.895	45.679
1700	2.211	2.095	34.670	27.721	36.944	45.729
1800	2.071	1.948	34.692	27.750	36.981	45.774
1865	2.076	1.948	34.693	27.751	36.982	45.775



CONRAD 16 STATION 195
 04 /19/1973 GMT=1500 39 44.05 54 15.5W PDR=2992

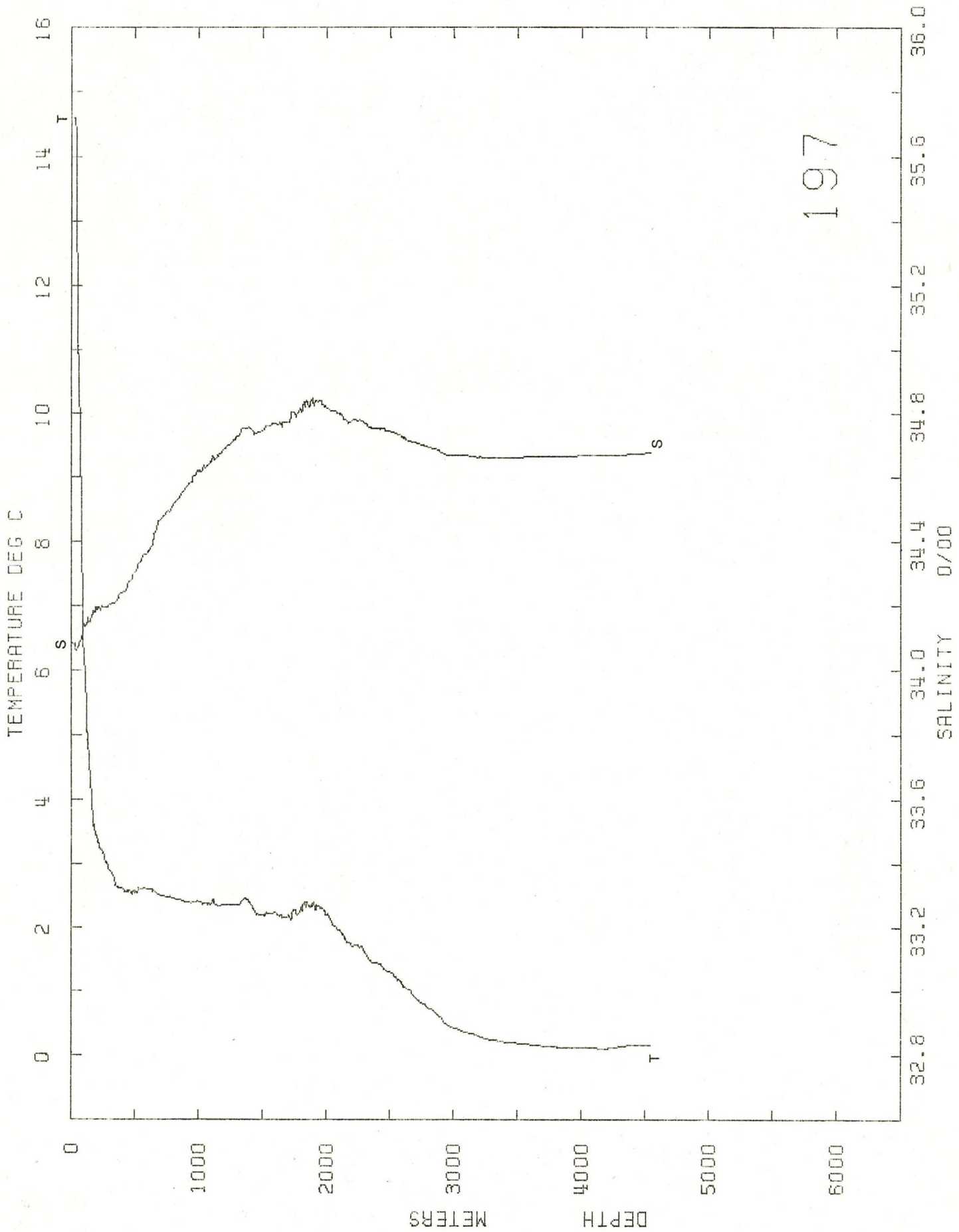
DEPTH	TEMP	THETA	SALT	SIG-0	SIG-2	SIG-4
6	14.066	14.065	34.000	25.421	34.104	42.390
10	14.094	14.093	34.001	25.416	34.097	42.382
20	14.095	14.092	34.002	25.417	34.098	42.383
30	13.950	13.946	34.051	25.485	34.172	42.461
50	11.119	11.113	34.210	26.160	34.955	43.347
75	8.205	8.198	34.235	26.665	35.587	44.094
100	5.958	5.949	34.145	26.905	35.936	44.542
125	4.328	4.319	34.116	27.072	36.185	44.868
150	3.966	3.956	34.110	27.105	36.237	44.938
200	3.686	3.672	34.133	27.152	36.298	45.012
250	3.397	3.380	34.151	27.195	36.356	45.084
300	3.195	3.175	34.159	27.221	36.393	45.131
400	2.578	2.554	34.166	27.281	36.486	45.257
500	2.381	2.351	34.200	27.325	36.541	45.321
600	2.548	2.511	34.302	27.393	36.599	45.369
700	2.565	2.521	34.349	27.430	36.635	45.403
800	2.529	2.479	34.400	27.474	36.681	45.450
900	2.558	2.500	34.468	27.527	36.730	45.499
1000	2.543	2.478	34.512	27.564	36.768	45.537
1100	2.587	2.514	34.559	27.598	36.800	45.565
1200	2.549	2.468	34.590	27.627	36.830	45.598
1300	2.403	2.316	34.611	27.656	36.868	45.643
1400	2.365	2.271	34.640	27.683	36.896	45.673
1500	2.364	2.263	34.659	27.699	36.913	45.690
1600	2.334	2.224	34.681	27.720	36.935	45.714
1700	2.331	2.214	34.704	27.739	36.955	45.733
1800	2.204	2.080	34.711	27.755	36.978	45.764
1900	1.976	1.847	34.682	27.751	36.987	45.785
2000	1.990	1.852	34.685	27.752	36.989	45.786
2100	1.990	1.844	34.690	27.757	36.994	45.792
2200	1.985	1.830	34.691	27.759	36.996	45.795
2300	2.002	1.838	34.696	27.762	36.999	45.797
2400	1.999	1.826	34.702	27.768	37.005	45.805
2500	1.954	1.773	34.710	27.778	37.018	45.821
2600	1.910	1.720	34.712	27.785	37.028	45.831
2700	1.847	1.649	34.739	27.811	37.058	45.865
2800	1.611	1.408	34.725	27.818	37.078	45.898
2900	1.441	1.233	34.707	27.816	37.086	45.917
3000	1.348	1.132	34.703	27.819	37.096	45.931
3215	1.245	1.010	34.713	27.835	37.118	45.961

Due to noisy salinity sensor all salts questionable.



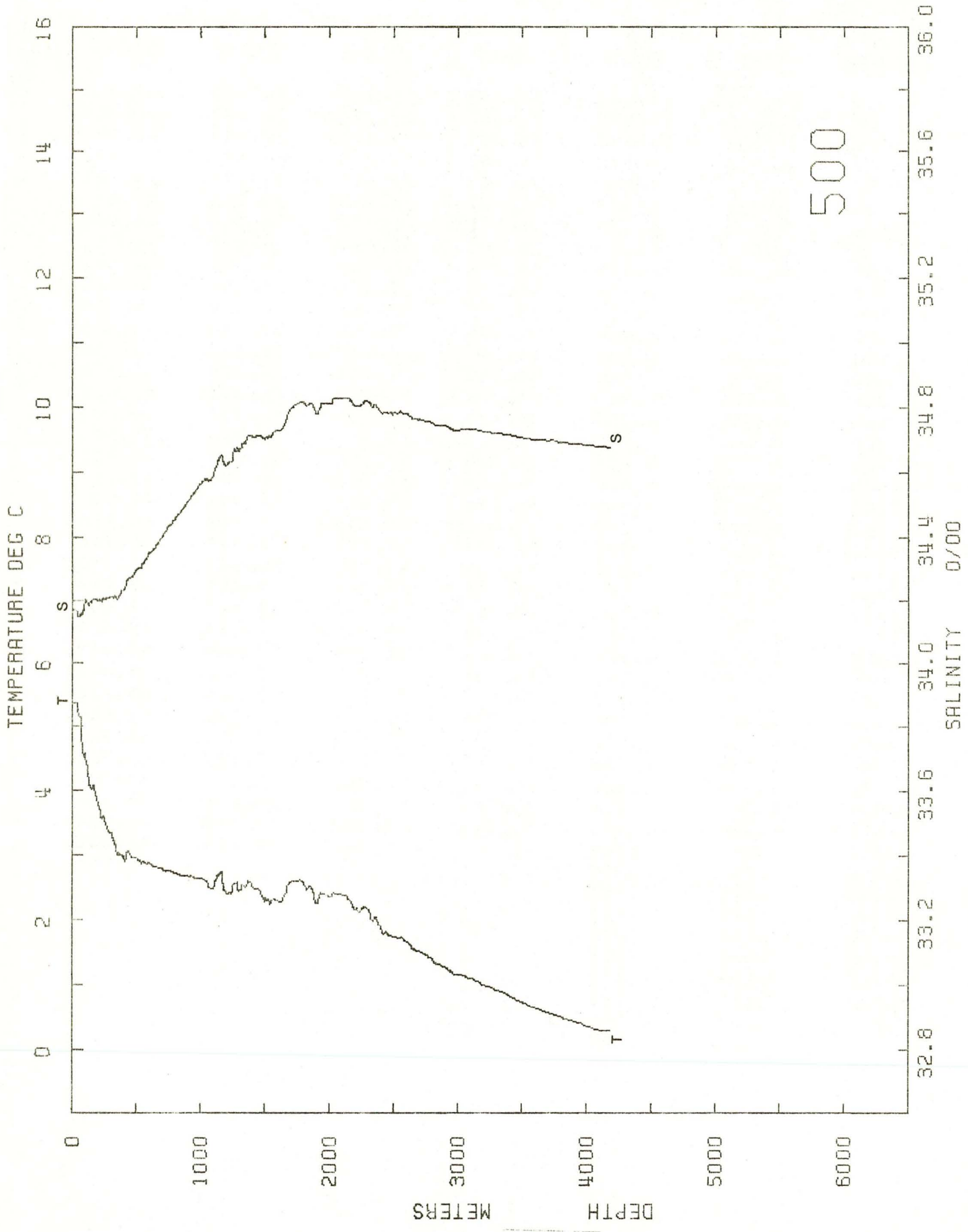
CONRAD 16 STATION 196
 04 /19/1973 GMT=1819 39 44.95 54 11.6W PDR=3829

DEPTH	TEMP	THETA	SALT	SIG-0	SIG-2	SIG-4
1	14.330	14.330	33.981	25.350	34.023	42.301
10	14.317	14.315	33.981	25.353	34.026	42.304
20	14.266	14.263	33.980	25.364	34.039	42.319
30	14.165	14.161	33.989	25.392	34.071	42.354
50	10.264	10.258	34.106	26.230	35.063	43.489
75	6.794	6.787	34.139	26.791	35.780	44.350
100	4.685	4.677	34.156	27.065	36.158	44.824
125	4.066	4.058	34.165	27.138	36.263	44.959
150	3.892	3.882	34.189	27.175	36.310	45.013
200	3.678	3.664	34.193	27.200	36.346	45.060
250	3.379	3.363	34.197	27.233	36.394	45.123
300	3.099	3.080	34.205	27.265	36.443	45.185
400	2.783	2.758	34.230	27.314	36.508	45.267
500	2.640	2.609	34.279	27.367	36.567	45.333
600	2.653	2.616	34.348	27.421	36.620	45.384
700	2.576	2.532	34.417	27.483	36.687	45.453
800	2.488	2.438	34.488	27.548	36.754	45.525
900	2.439	2.382	34.539	27.593	36.802	45.575
1000	2.401	2.337	34.595	27.641	36.852	45.626
1100	2.356	2.284	34.643	27.684	36.897	45.673
1200	2.323	2.245	34.678	27.716	36.930	45.708
1300	2.408	2.322	34.722	27.745	36.954	45.727
1400	2.216	2.124	34.726	27.764	36.984	45.767
1500	2.159	2.059	34.740	27.780	37.004	45.790
1600	2.142	2.035	34.764	27.802	37.026	45.813
1700	2.039	1.925	34.764	27.810	37.041	45.833
1800	1.917	1.797	34.725	27.789	37.027	45.827
1900	1.908	1.779	34.752	27.812	37.051	45.852
2000	1.894	1.757	34.754	27.815	37.055	45.857
2100	1.933	1.787	34.758	27.816	37.054	45.855
2200	1.888	1.734	34.779	27.837	37.078	45.880
2300	1.781	1.620	34.793	27.857	37.104	45.913
2400	1.553	1.388	34.765	27.851	37.112	45.933
2500	1.357	1.186	34.744	27.848	37.121	45.953
2600	1.221	1.044	34.735	27.851	37.131	45.971
2700	.983	.802	34.719	27.854	37.149	46.001
2800	.816	.630	34.703	27.851	37.156	46.019
2900	.648	.456	34.692	27.853	37.168	46.040
3000	.544	.346	34.683	27.852	37.174	46.052
3250	.445	.226				
3500	.333	.093				
3750	.380	.114				



CONRAD 16 STATION 197
 04 /20/1973 GMT=0014 39 57.85 53 51.5W PDR=4561

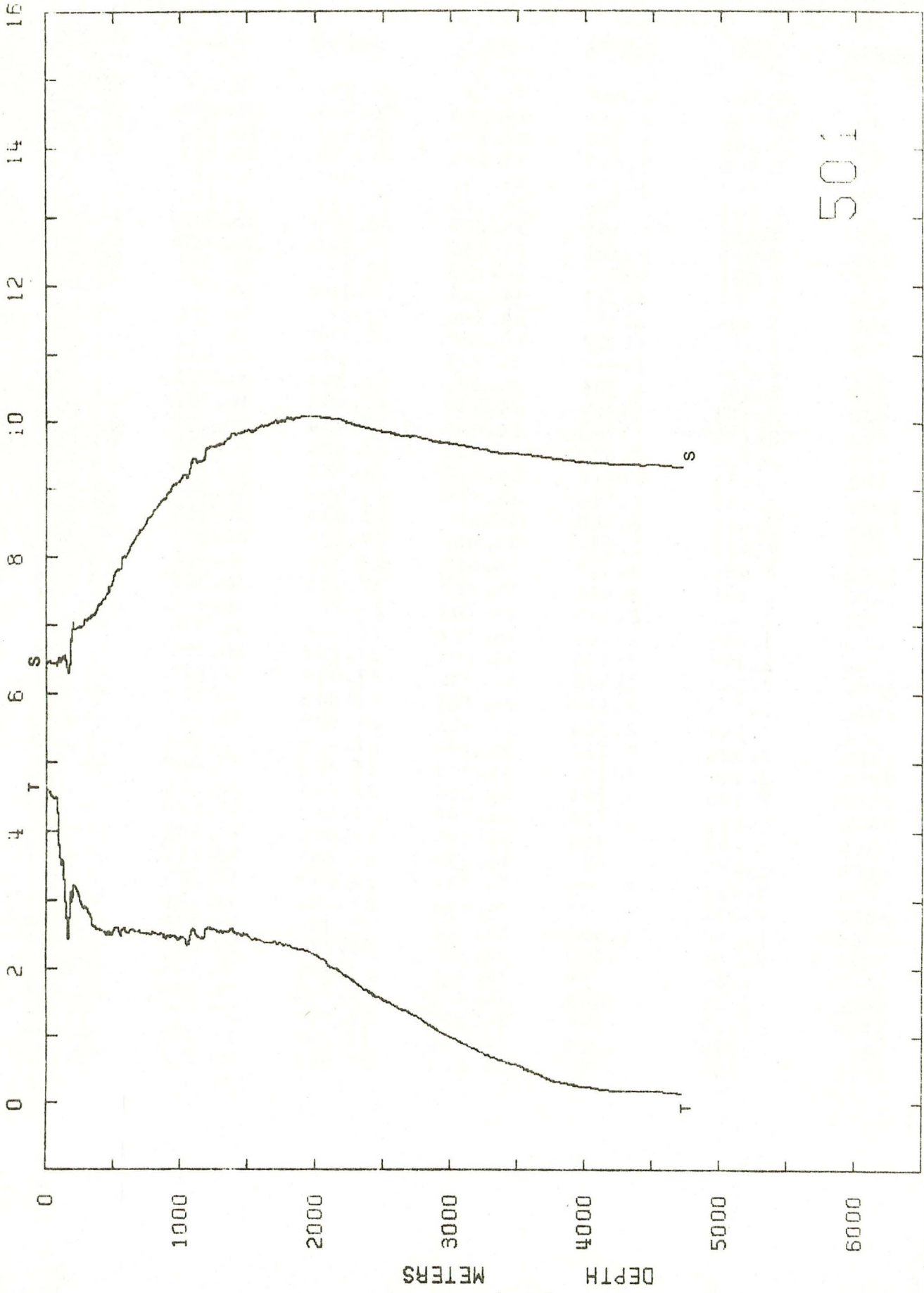
DEPTH	TEMP	THETA	SALT	SIG-0	SIG-2	SIG-4
1	14.610	14.610	34.083	25.369	34.030	42.297
10	14.604	14.602	34.082	25.370	34.032	42.299
20	14.601	14.598	34.083	25.371	34.033	42.300
30	14.578	14.574	34.080	25.375	34.037	42.305
50	11.892	11.886	34.069	25.907	34.674	43.038
75	8.931	8.923	34.091	26.440	35.332	43.811
100	6.140	6.132	34.141	26.879	35.900	44.499
125	5.017	5.007	34.151	27.024	36.101	44.751
150	4.296	4.285	34.155	27.107	36.221	44.905
200	3.410	3.397	34.190	27.224	36.384	45.111
250	3.136	3.120	34.195	27.254	36.428	45.170
300	2.877	2.858	34.204	27.285	36.473	45.228
400	2.603	2.579	34.241	27.339	36.542	45.310
500	2.551	2.521	34.305	27.395	36.600	45.370
600	2.602	2.565	34.370	27.443	36.645	45.410
700	2.504	2.460	34.471	27.533	36.738	45.508
800	2.456	2.406	34.517	27.574	36.782	45.554
900	2.412	2.355	34.565	27.616	36.827	45.601
1000	2.404	2.340	34.618	27.660	36.870	45.643
1100	2.397	2.325	34.656	27.692	36.902	45.676
1200	2.355	2.277	34.688	27.721	36.934	45.710
1300	2.362	2.276	34.727	27.753	36.965	45.740
1400	2.364	2.269	34.749	27.770	36.982	45.758
1500	2.192	2.092	34.746	27.783	37.005	45.789
1600	2.222	2.114	34.766	27.797	37.017	45.800
1700	2.179	2.063	34.773	27.807	37.030	45.815
1800	2.292	2.166	34.813	27.830	37.046	45.827
1900	2.376	2.240	34.831	27.838	37.050	45.826
2000	2.194	2.052	34.817	27.842	37.065	45.850
2100	1.944	1.798	34.798	27.847	37.084	45.883
2200	1.711	1.560	34.777	27.848	37.099	45.911
2300	1.594	1.436	34.767	27.849	37.107	45.925
2400	1.430	1.266	34.751	27.848	37.116	45.943
2500	1.283	1.114	34.742	27.852	37.128	45.964
2600	1.094	.920	34.724	27.850	37.138	45.984
2700	.885	.706	34.706	27.849	37.149	46.008
2800	.738	.554				
2900	.575	.385				
3000	.427	.232				
3250	.252	.038				
3500	.183	-.053				
3750	.138	-.121				
4000	.117	-.166				
4250	.127	-.182				
4500	.160	-.177				
4541	.160	-.182				



ISLAS ORCADAS STAT 500
 11 /07/1975 GMT=2315 48 50.05 36 13.3W PDR=5234

DEPTH	TEMP	THETA	SALT	SIG-0	SIG-2	SIG-4
2	5.364	5.364	34.169	26.996	36.054	44.688
10	5.359	5.358	34.170	26.997	36.056	44.690
20	5.362	5.361	34.171	26.998	36.056	44.690
30	5.361	5.359	34.168	26.996	36.055	44.689
50	5.162	5.158	34.149	27.005	36.074	44.717
75	4.746	4.741	34.156	27.058	36.149	44.811
100	4.561	4.554	34.203	27.116	36.215	44.886
125	4.169	4.161	34.187	27.145	36.265	44.955
150	4.031	4.021	34.198	27.168	36.295	44.992
200	3.785	3.771	34.201	27.197	36.337	45.045
250	3.530	3.514	34.202	27.223	36.376	45.098
300	3.341	3.322	34.212	27.249	36.412	45.143
400	2.952	2.927	34.233	27.302	36.486	45.236
500	2.956	2.924	34.298	27.354	36.538	45.287
600	2.873	2.835	34.350	27.403	36.591	45.344
700	2.785	2.740	34.404	27.454	36.647	45.403
800	2.722	2.670	34.458	27.504	36.699	45.459
900	2.671	2.612	34.511	27.551	36.749	45.510
1000	2.631	2.566	34.565	27.599	36.797	45.560
1100	2.522	2.450	34.600	27.636	36.840	45.609
1200	2.411	2.332	34.622	27.664	36.874	45.648
1300	2.454	2.367	34.667	27.697	36.905	45.676
1400	2.532	2.436	34.709	27.725	36.928	45.696
1500	2.326	2.224	34.703	27.737	36.952	45.731
1600	2.292	2.183	34.727	27.760	36.977	45.758
1700	2.596	2.474	34.798	27.792	36.993	45.756
1800	2.552	2.422	34.813	27.809	37.011	45.777
1900	2.263	2.129	34.781	27.808	37.027	45.809
2000	2.364	2.220	34.812	27.825	37.039	45.815
2100	2.384	2.231	34.829	27.838	37.050	45.826
2200	2.169	2.010	34.803	27.835	37.060	45.848
2300	2.160	1.993	34.816	27.846	37.073	45.861
2400	1.871	1.699	34.782	27.842	37.085	45.890
2500	1.742	1.564	34.780	27.851	37.102	45.913
2600	1.659	1.474	34.777	27.855	37.110	45.927
2700	1.517	1.325	34.762	27.853	37.117	45.942
2800	1.371	1.173	34.750	27.854	37.128	45.960
2900	1.268	1.063	34.741	27.854	37.134	45.972
3000	1.161	.949	34.731	27.854	37.140	45.985
3250	.965	.734	34.722	27.860	37.159	46.015
3500	.733	.483	34.706	27.863	37.176	46.047
3750	.539	.269	34.695	27.866	37.193	46.075
4000	.372	.082	34.684	27.867	37.205	46.098
4179	.291	-.016	34.677	27.867	37.210	46.108

TEMPERATURE DEG C



501

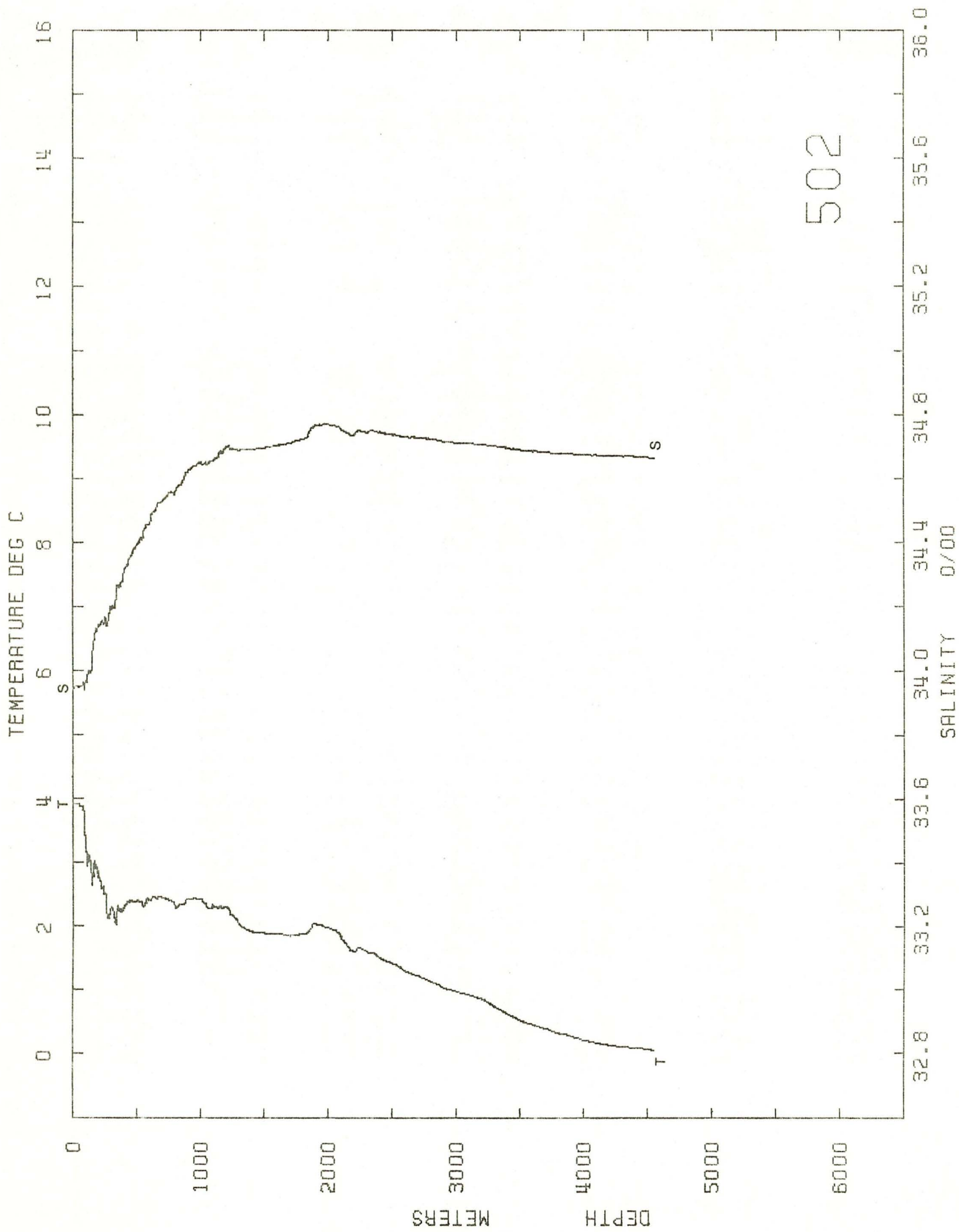
ISLAS ORCADAS STAT 501

11 /10/1975 GMT=1317

47 48.15 29 21.5W

PDR=4792

DEPTH	TEMP	THETA	SALT	SIG-0	SIG-2	SIG-4
1	4.590	4.590	34.087	27.020	36.119	44.790
10	4.590	4.589	34.090	27.022	36.121	44.793
20	4.572	4.571	34.092	27.026	36.126	44.798
30	4.540	4.538	34.091	27.028	36.130	44.804
50	4.494	4.491	34.089	27.032	36.137	44.812
75	4.480	4.475	34.088	27.033	36.138	44.815
100	3.682	3.675	34.098	27.124	36.271	44.986
125	3.565	3.557	34.107	27.142	36.295	45.015
150	2.853	2.844	34.087	27.193	36.384	45.141
200	3.188	3.175	34.190	27.245	36.417	45.155
250	3.024	3.008	34.193	27.263	36.443	45.190
300	2.889	2.870	34.212	27.290	36.478	45.232
400	2.573	2.548	34.262	27.358	36.562	45.331
500	2.538	2.508	34.337	27.421	36.627	45.397
600	2.522	2.485	34.407	27.479	36.685	45.454
700	2.538	2.494	34.481	27.538	36.742	45.509
800	2.529	2.479	34.537	27.584	36.788	45.555
900	2.470	2.412	34.585	27.627	36.834	45.605
1000	2.461	2.396	34.631	27.665	36.872	45.643
1100	2.560	2.487	34.688	27.703	36.904	45.670
1200	2.589	2.508	34.720	27.727	36.926	45.691
1300	2.540	2.452	34.731	27.741	36.943	45.709
1400	2.532	2.436	34.763	27.767	36.970	45.736
1500	2.472	2.369	34.774	27.782	36.988	45.758
1600	2.401	2.291	34.785	27.798	37.008	45.782
1700	2.392	2.273	34.802	27.812	37.023	45.797
1800	2.344	2.217	34.809	27.823	37.037	45.814
1900	2.273	2.139	34.815	27.834	37.052	45.833
2000	2.194	2.053	34.816	27.841	37.064	45.849
2100	2.031	1.883	34.810	27.850	37.082	45.877
2200	1.910	1.756	34.801	27.853	37.092	45.894
2300	1.771	1.610	34.787	27.852	37.100	45.909
2400	1.647	1.479	34.777	27.854	37.109	45.925
2500	1.532	1.358	34.769	27.856	37.119	45.941
2600	1.432	1.250	34.760	27.856	37.125	45.953
2700	1.334	1.146	34.754	27.859	37.134	45.967
2800	1.218	1.023	34.748	27.862	37.144	45.985
2900	1.082	.881	34.737	27.863	37.153	46.001
3000	.977	.769	34.732	27.866	37.163	46.017
3250	.739	.513	34.715	27.868	37.180	46.048
3500	.564	.318	34.703	27.869	37.193	46.072
3750	.343	.078	34.689	27.872	37.209	46.102
4000	.236	-.051	34.678	27.870	37.215	46.115
4250	.181	-.130	34.672	27.868	37.219	46.123
4500	.172	-.166	34.671	27.869	37.222	46.128
4715	.142	-.218	34.663	27.866	37.221	46.131



ISLAS ORCADAS STAT 502

11 /11/1975

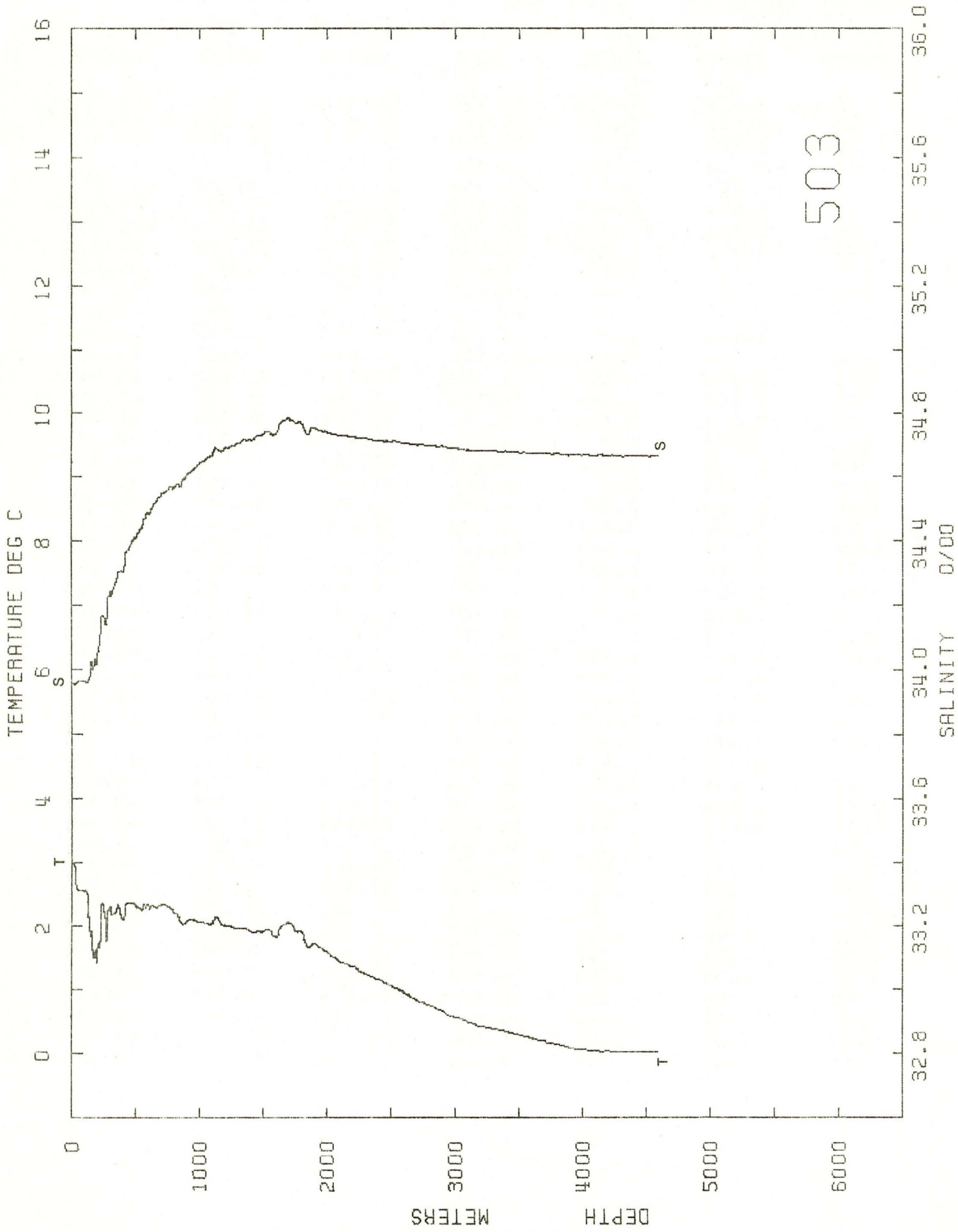
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48 15.05

26 28.4N

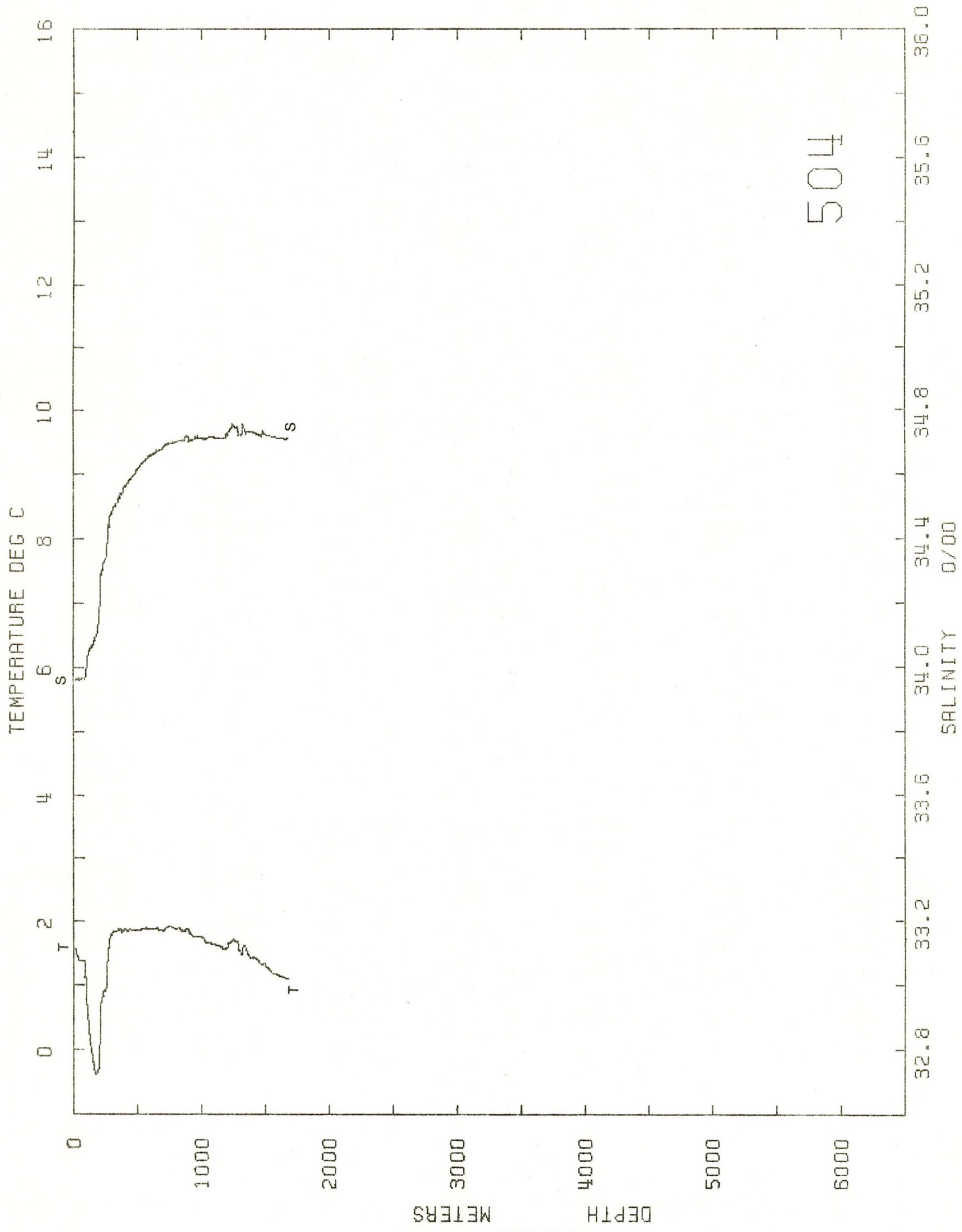
PDR=4584

DEPTH	TEMP	THETA	SALT	SIG-0	SIG-2	SIG-4
1	3.925	3.925	33.946	26.978	36.114	44.819
10	3.921	3.920	33.947	26.979	36.115	44.821
20	3.925	3.923	33.950	26.982	36.118	44.823
30	3.925	3.923	33.950	26.982	36.118	44.823
50	3.896	3.892	33.949	26.984	36.122	44.829
75	3.869	3.864	33.954	26.990	36.129	44.838
100	3.215	3.209	33.966	27.064	36.238	44.978
125	3.091	3.083	33.994	27.098	36.278	45.023
150	2.736	2.727	34.012	27.143	36.342	45.106
200	2.827	2.815	34.141	27.239	36.430	45.188
250	2.511	2.497	34.165	27.285	36.494	45.267
300	2.291	2.274	34.196	27.328	36.549	45.332
400	2.309	2.286	34.311	27.419	36.637	45.419
500	2.388	2.359	34.393	27.479	36.691	45.467
600	2.403	2.366	34.462	27.533	36.744	45.519
700	2.440	2.397	34.531	27.585	36.794	45.566
800	2.293	2.243	34.555	27.617	36.834	45.614
900	2.420	2.362	34.623	27.662	36.871	45.644
1000	2.423	2.358	34.648	27.683	36.891	45.664
1100	2.318	2.247	34.659	27.700	36.915	45.692
1200	2.295	2.217	34.698	27.734	36.949	45.729
1300	2.033	1.950	34.688	27.747	36.978	45.771
1400	1.917	1.828	34.692	27.760	36.997	45.796
1500	1.887	1.791	34.697	27.767	37.007	45.808
1600	1.882	1.778	34.705	27.774	37.014	45.815
1700	1.853	1.742	34.713	27.783	37.025	45.828
1800	1.882	1.762	34.726	27.792	37.033	45.834
1900	2.030	1.899	34.766	27.814	37.046	45.840
2000	1.973	1.835	34.770	27.822	37.058	45.855
2100	1.824	1.679	34.754	27.821	37.065	45.871
2200	1.601	1.452	34.740	27.827	37.084	45.902
2300	1.596	1.439	34.745	27.831	37.090	45.908
2400	1.494	1.329	34.745	27.840	37.104	45.929
2500	1.408	1.236	34.738	27.840	37.110	45.939
2600	1.291	1.113	34.732	27.844	37.121	45.957
2700	1.211	1.025	34.728	27.847	37.129	45.969
2800	1.125	.932	34.723	27.848	37.136	45.982
2900	1.023	.823	34.716	27.850	37.144	45.995
3000	.966	.758	34.712	27.851	37.149	46.004
3250	.791	.564	34.705	27.857	37.166	46.032
3500	.506	.262	34.690	27.862	37.190	46.071
3750	.353	.088	34.681	27.865	37.202	46.094
4000	.204	-.081	34.676	27.869	37.217	46.118
4250	.111	-.198	34.671	27.871	37.225	46.134
4500	.064	-.270	34.666	27.870	37.229	46.141
4553	.038	-.301	34.664	27.871	37.231	46.146



ISLAS ORCADAS STAT 503
 11 /13/1975 GMT=0715 50 00.3S 25 53.1W POR=4670

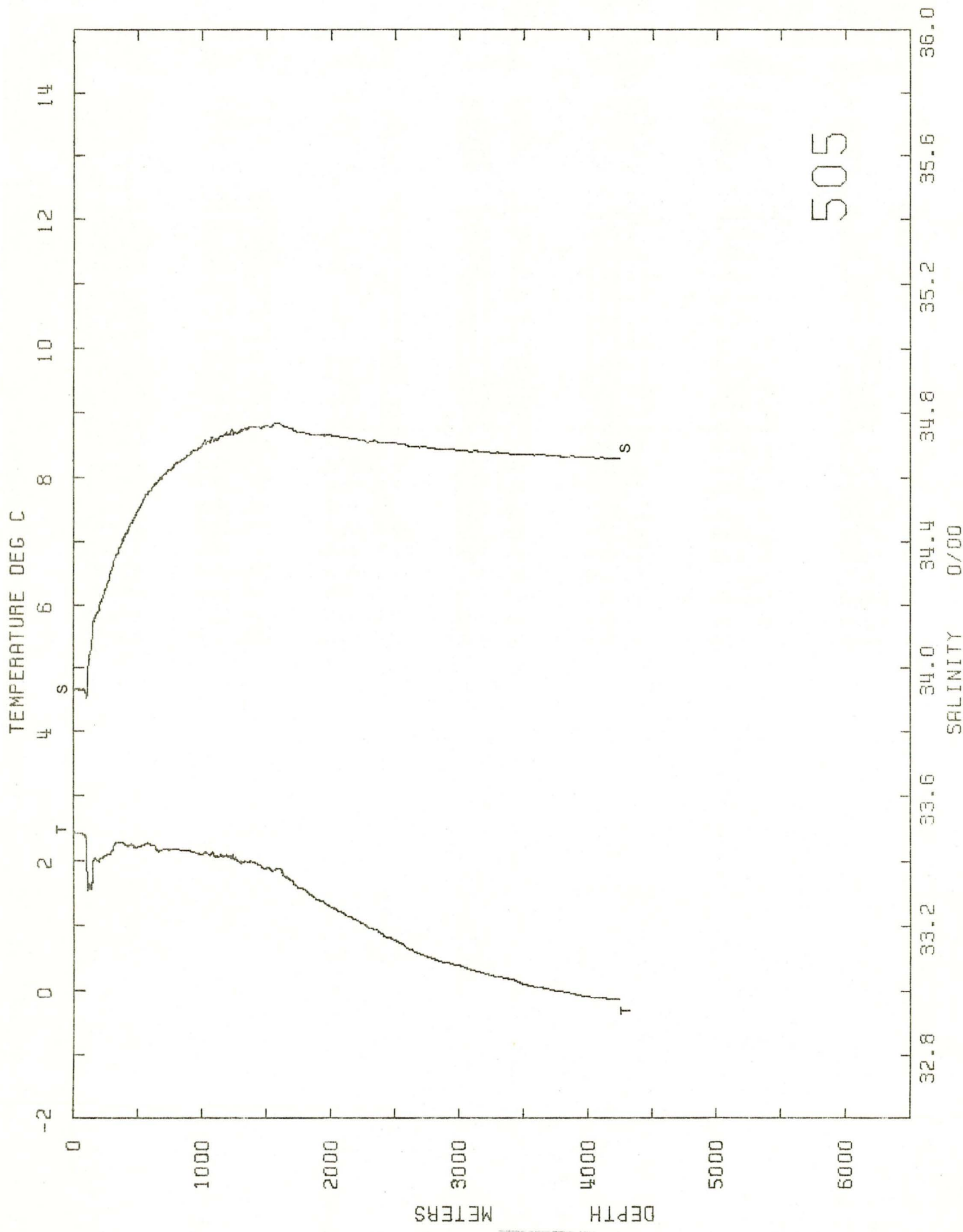
DEPTH	TEMP	THETA	SALT	SIG-0	SIG-2	SIG-4
0	3.007	3.007	33.954	27.072	36.258	45.007
10	2.978	2.978	33.954	27.075	36.262	45.014
20	2.964	2.963	33.954	27.077	36.264	45.016
30	2.824	2.822	33.951	27.087	36.281	45.041
50	2.573	2.570	33.963	27.117	36.325	45.098
75	2.559	2.555	33.964	27.120	36.328	45.102
100	2.550	2.544	33.964	27.121	36.331	45.104
125	2.472	2.465	33.959	27.123	36.338	45.115
150	1.851	1.843	34.003	27.208	36.455	45.265
200	1.535	1.525	34.047	27.266	36.531	45.356
250	2.286	2.272	34.163	27.302	36.524	45.308
300	2.267	2.250	34.236	27.362	36.584	45.369
400	2.111	2.088	34.304	27.429	36.658	45.450
500	2.315	2.286	34.411	27.499	36.716	45.495
600	2.321	2.285	34.485	27.558	36.774	45.553
700	2.330	2.287	34.545	27.606	36.819	45.598
800	2.214	2.165	34.565	27.632	36.853	45.637
900	2.076	2.022	34.609	27.678	36.907	45.696
1000	2.065	2.003	34.642	27.706	36.935	45.725
1100	2.043	1.974	34.672	27.733	36.962	45.754
1200	2.010	1.935	34.689	27.749	36.980	45.774
1300	1.962	1.879	34.704	27.766	36.999	45.796
1400	1.917	1.828	34.714	27.778	37.014	45.814
1500	1.915	1.818	34.735	27.795	37.033	45.831
1600	1.829	1.725	34.734	27.802	37.044	45.847
1700	2.049	1.935	34.781	27.823	37.052	45.845
1800	1.911	1.791	34.764	27.820	37.058	45.858
1900	1.719	1.593	34.752	27.825	37.075	45.885
2000	1.579	1.447	34.736	27.823	37.082	45.900
2100	1.436	1.298	34.728	27.827	37.094	45.920
2200	1.364	1.219	34.725	27.831	37.102	45.932
2300	1.239	1.087	34.718	27.835	37.113	45.951
2400	1.155	.997	34.713	27.836	37.120	45.962
2500	1.054	.889	34.710	27.841	37.131	45.979
2600	.950	.778	34.704	27.843	37.140	45.994
2700	.833	.655	34.699	27.846	37.150	46.011
2800	.749	.564	34.696	27.850	37.159	46.024
2900	.662	.470	34.692	27.852	37.167	46.038
3000	.563	.364	34.688	27.855	37.175	46.053
3250	.403	.185	34.679	27.858	37.189	46.076
3500	.286	.048	34.674	27.861	37.201	46.095
3750	.160	-.099	34.670	27.865	37.214	46.117
4000	.058	-.223	34.666	27.868	37.224	46.134
4250	.021	-.285	34.664	27.870	37.230	46.143
4500	.023	-.310	34.663	27.871	37.232	46.147
4591	.014	-.329	34.664	27.872	37.234	46.150



ISLAS ORCADAS STAT 504

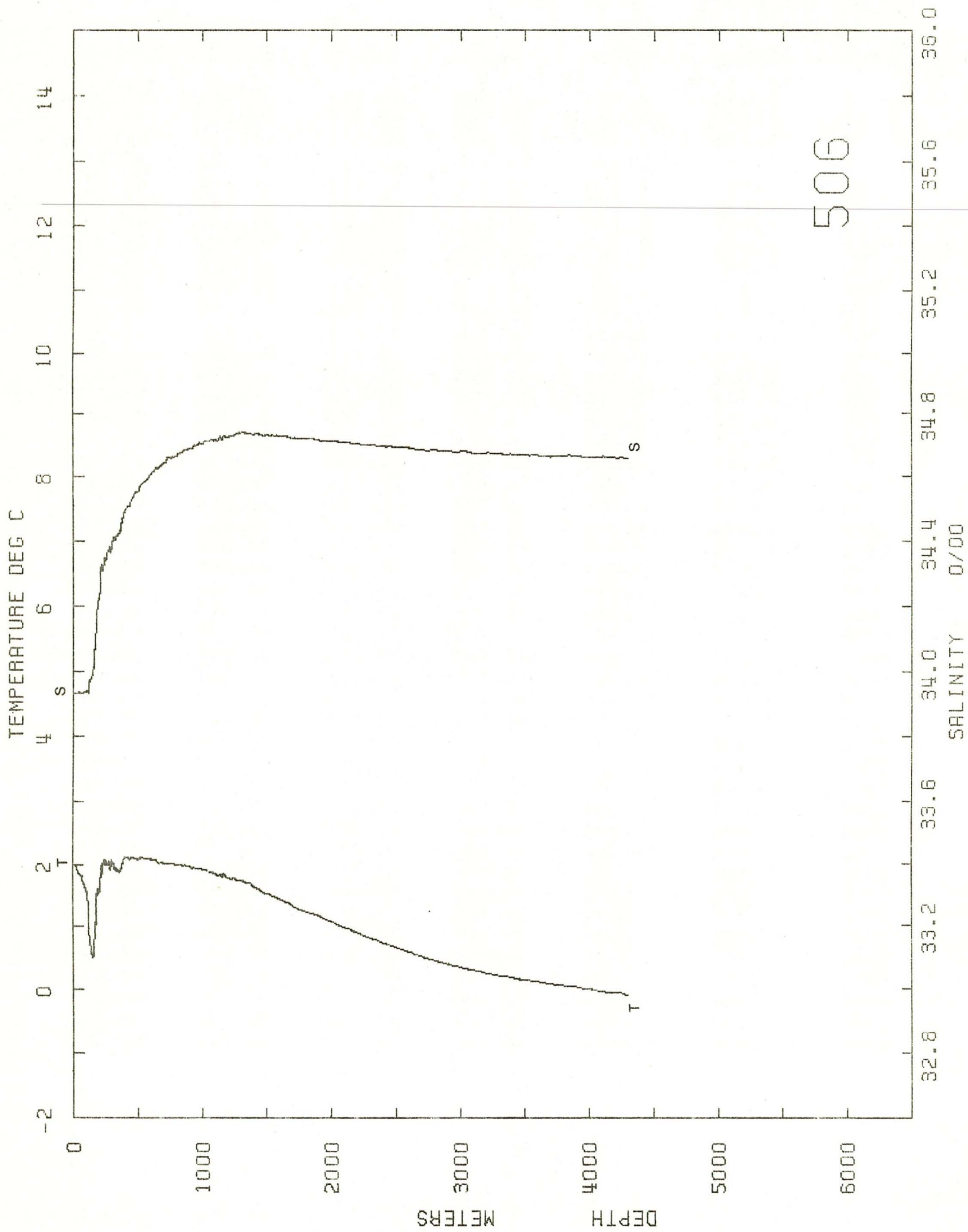
11 /19/1975 GMT=2025 50 41.0S 31 49.2W PDR=4493

DEPTH	TEMP	THETA	SALT	SIG-0	SIG-2	SIG-4
1	1.562	1.562	33.958	27.192	36.457	45.281
10	1.554	1.554	33.960	27.194	36.459	45.284
20	1.521	1.520	33.960	27.197	36.464	45.291
30	1.448	1.447	33.966	27.207	36.477	45.308
50	1.381	1.379	33.965	27.211	36.486	45.319
75	1.386	1.383	33.966	27.211	36.485	45.319
100	.947	.943	33.979	27.251	36.550	45.407
125	.233	.228	34.053	27.352	36.692	45.586
150	-.152	-.157	34.070	27.385	36.747	45.663
200	-.206	-.213	34.161	27.461	36.825	45.742
250	.905	.894	34.337	27.541	36.837	45.691
300	1.786	1.770	34.482	27.596	36.840	45.646
400	1.879	1.857	34.562	27.654	36.892	45.692
500	1.861	1.833	34.615	27.698	36.936	45.736
600	1.884	1.850	34.658	27.731	36.967	45.766
700	1.856	1.816	34.682	27.753	36.991	45.790
800	1.879	1.832	34.699	27.765	37.003	45.801
900	1.835	1.782	34.703	27.773	37.012	45.813
1000	1.746	1.687	34.714	27.788	37.033	45.839
1100	1.641	1.575	34.714	27.797	37.048	45.859
1200	1.594	1.522	34.727	27.811	37.065	45.879
1300	1.512	1.434	34.724	27.815	37.073	45.893
1400	1.433	1.349	34.731	27.826	37.090	45.914
1500	1.313	1.223	34.723	27.829	37.100	45.930
1600	1.155	1.060	34.711	27.831	37.111	45.950
1682	1.100	1.000	34.711	27.834	37.118	45.961



ISLAS ORCADAS STAT 505
 11 /21/1975 GMT=1355 50 58.65 24 43.5W PDR=4278

DEPTH	TEMP	THETA	SALT	SIG-0	SIG-2	SIG-4
1	2.433	2.433	33.919	27.094	36.310	45.090
10	2.428	2.427	33.931	27.104	36.321	45.101
20	2.428	2.427	33.931	27.104	36.321	45.101
30	2.427	2.426	33.931	27.104	36.321	45.101
50	2.418	2.416	33.930	27.104	36.322	45.103
75	2.409	2.405	33.930	27.105	36.323	45.104
100	2.171	2.166	33.909	27.108	36.339	45.133
125	1.629	1.623	34.039	27.252	36.512	45.332
150	1.760	1.753	34.129	27.315	36.566	45.378
200	1.992	1.981	34.192	27.348	36.585	45.384
250	2.078	2.064	34.253	27.390	36.622	45.415
300	2.153	2.137	34.320	27.438	36.665	45.453
400	2.250	2.227	34.419	27.510	36.730	45.512
500	2.204	2.175	34.498	27.577	36.798	45.582
600	2.247	2.211	34.559	27.623	36.842	45.623
700	2.186	2.144	34.609	27.668	36.890	45.674
800	2.189	2.140	34.643	27.696	36.917	45.701
900	2.151	2.096	34.669	27.720	36.944	45.729
1000	2.105	2.043	34.701	27.751	36.975	45.764
1100	2.069	2.001	34.717	27.766	36.994	45.783
1200	2.074	1.998	34.733	27.780	37.007	45.796
1300	1.982	1.900	34.746	27.798	37.030	45.825
1400	1.977	1.887	34.756	27.807	37.040	45.834
1500	1.896	1.799	34.760	27.817	37.054	45.853
1600	1.883	1.778	34.766	27.823	37.062	45.862
1700	1.687	1.577	34.749	27.824	37.075	45.886
1800	1.544	1.428	34.737	27.826	37.085	45.904
1900	1.392	1.271	34.734	27.834	37.102	45.930
2000	1.284	1.156	34.730	27.839	37.113	45.947
2100	1.184	1.050	34.723	27.841	37.122	45.961
2200	1.077	.937	34.719	27.845	37.132	45.978
2300	.959	.813	34.711	27.846	37.140	45.993
2400	.864	.711	34.707	27.850	37.150	46.008
2500	.777	.617	34.707	27.855	37.161	46.024
2600	.656	.490	34.698	27.856	37.169	46.039
2700	.565	.392	34.694	27.858	37.177	46.053
2800	.495	.316	34.691	27.860	37.184	46.063
2900	.438	.251	34.689	27.863	37.190	46.073
3000	.393	.198	34.684	27.861	37.192	46.078
3250	.238	.025	34.677	27.865	37.206	46.102
3500	.105	-.129	34.672	27.868	37.219	46.123
3750	.006	-.250	34.667	27.870	37.227	46.139
4000	-.086	-.364	34.663	27.873	37.237	46.154
4250	-.125	-.427	34.661	27.874	37.242	46.163
4235	-.125	-.425	34.661	27.874	37.241	46.163



ISLAS ORCADAS STAT 506

11 /23/1975

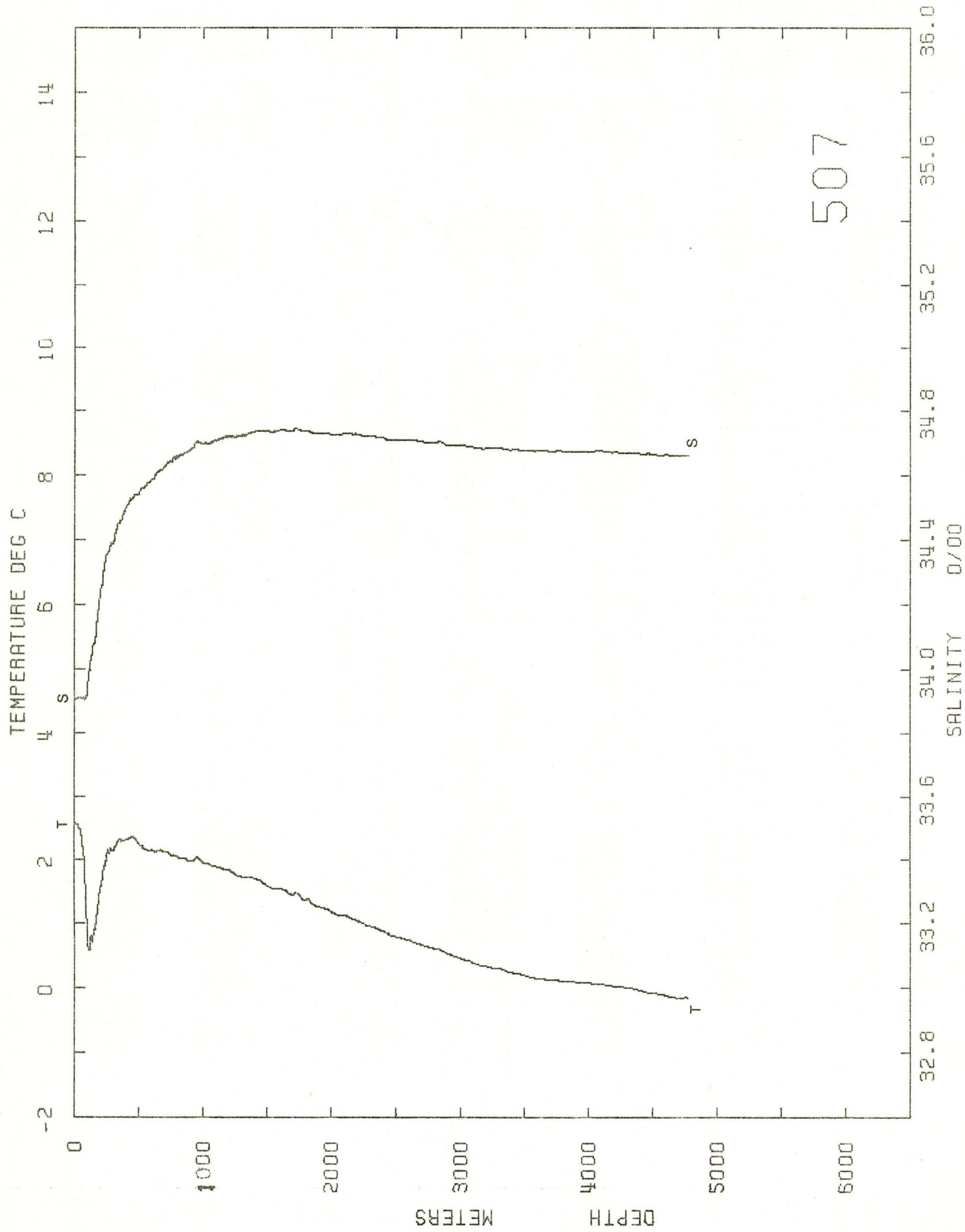
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51 39.15

27 26.0W

PDR=4286

DEPTH	TEMP	THETA	SALT	SIG-0	SIG-2	SIG-4
1	1.999	1.999	33.939	27.145	36.385	45.187
10	2.000	2.000	33.939	27.145	36.384	45.187
20	1.998	1.997	33.939	27.145	36.385	45.188
30	1.949	1.948	33.939	27.149	36.392	45.196
50	1.855	1.853	33.942	27.158	36.406	45.216
75	1.724	1.720	33.941	27.167	36.423	45.239
100	1.607	1.602	33.947	27.180	36.442	45.265
125	.860	.855	33.971	27.250	36.554	45.417
150	.497	.491	33.999	27.293	36.619	45.500
200	1.538	1.528	34.232	27.414	36.675	45.498
250	2.058	2.045	34.350	27.469	36.700	45.493
300	2.045	2.028	34.396	27.507	36.739	45.532
400	2.113	2.090	34.498	27.585	36.810	45.600
500	2.092	2.063	34.559	27.635	36.862	45.651
600	2.088	2.053	34.614	27.680	36.906	45.695
700	2.032	1.991	34.650	27.714	36.943	45.734
800	1.994	1.947	34.671	27.734	36.966	45.758
900	1.978	1.924	34.696	27.756	36.988	45.782
1000	1.928	1.868	34.712	27.773	37.008	45.805
1100	1.863	1.796	34.724	27.788	37.027	45.827
1200	1.783	1.709	34.731	27.800	37.043	45.848
1300	1.742	1.662	34.744	27.814	37.060	45.867
1400	1.644	1.557	34.739	27.818	37.069	45.881
1500	1.528	1.436	34.738	27.826	37.084	45.904
1600	1.438	1.339	34.734	27.830	37.094	45.917
1700	1.334	1.229	34.726	27.831	37.101	45.932
1800	1.234	1.123	34.726	27.839	37.115	45.950
1900	1.166	1.048	34.722	27.840	37.121	45.960
2000	1.071	.947	34.719	27.844	37.131	45.976
2100	.974	.843	34.716	27.848	37.141	45.991
2200	.889	.752	34.712	27.851	37.150	46.005
2300	.806	.662	34.709	27.854	37.157	46.017
2400	.724	.574	34.706	27.857	37.165	46.031
2500	.651	.494	34.699	27.856	37.169	46.039
2600	.578	.413	34.698	27.860	37.178	46.052
2700	.512	.340	34.693	27.860	37.182	46.061
2800	.446	.267	34.690	27.862	37.189	46.072
2900	.392	.206	34.688	27.864	37.194	46.080
3000	.343	.149	34.686	27.865	37.199	46.087
3250	.230	.016	34.679	27.867	37.208	46.105
3500	.140	-.095	34.675	27.869	37.218	46.120
3750	.066	-.191	34.672	27.871	37.225	46.133
4000	-.004	-.284	34.667	27.872	37.231	46.144
4250	-.068	-.371	34.666	27.875	37.240	46.158
4296	-.096	-.403	34.664	27.875	37.242	46.162



ISLAS ORCADAS STAT 507

11 /25/1975

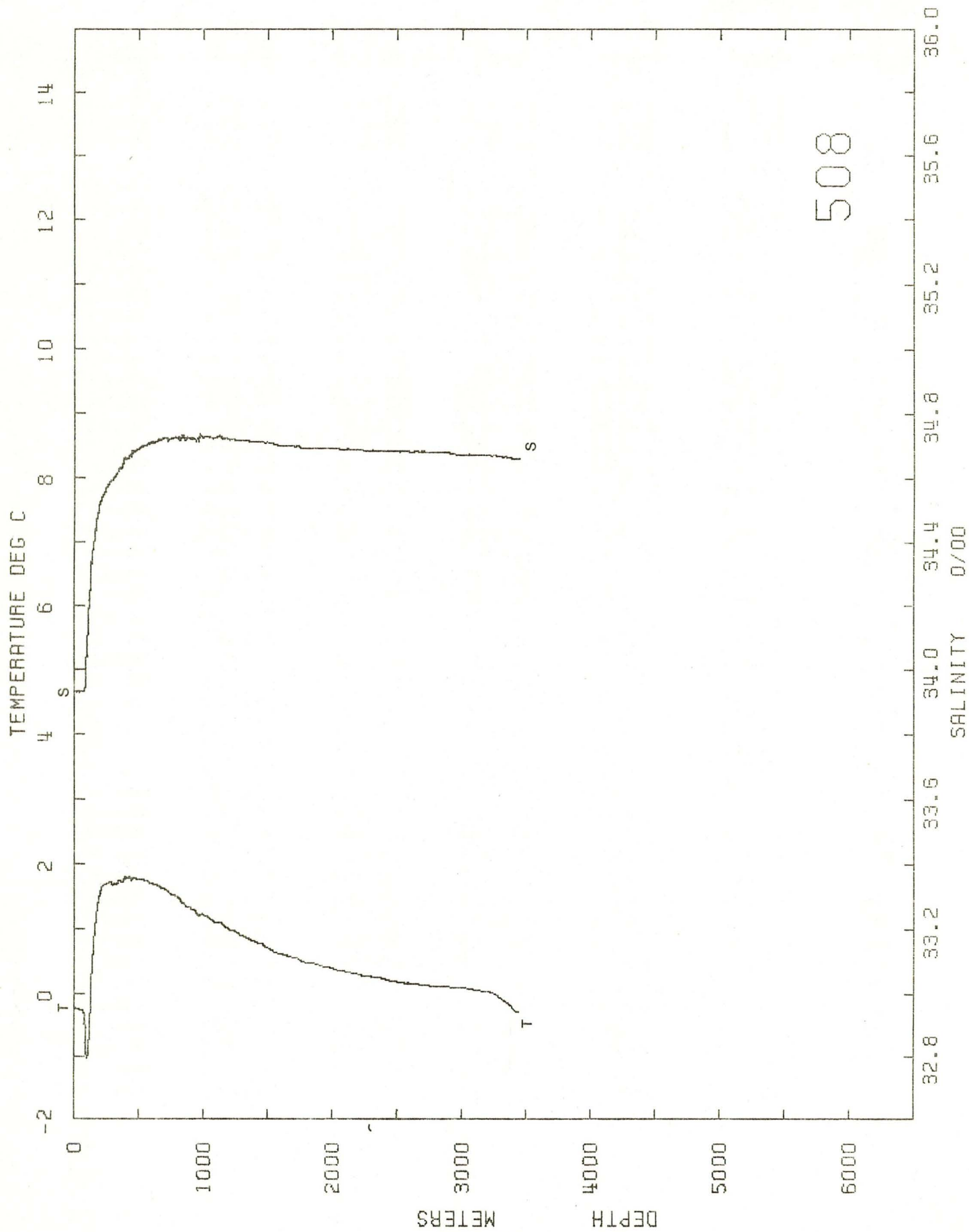
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35 08.6W

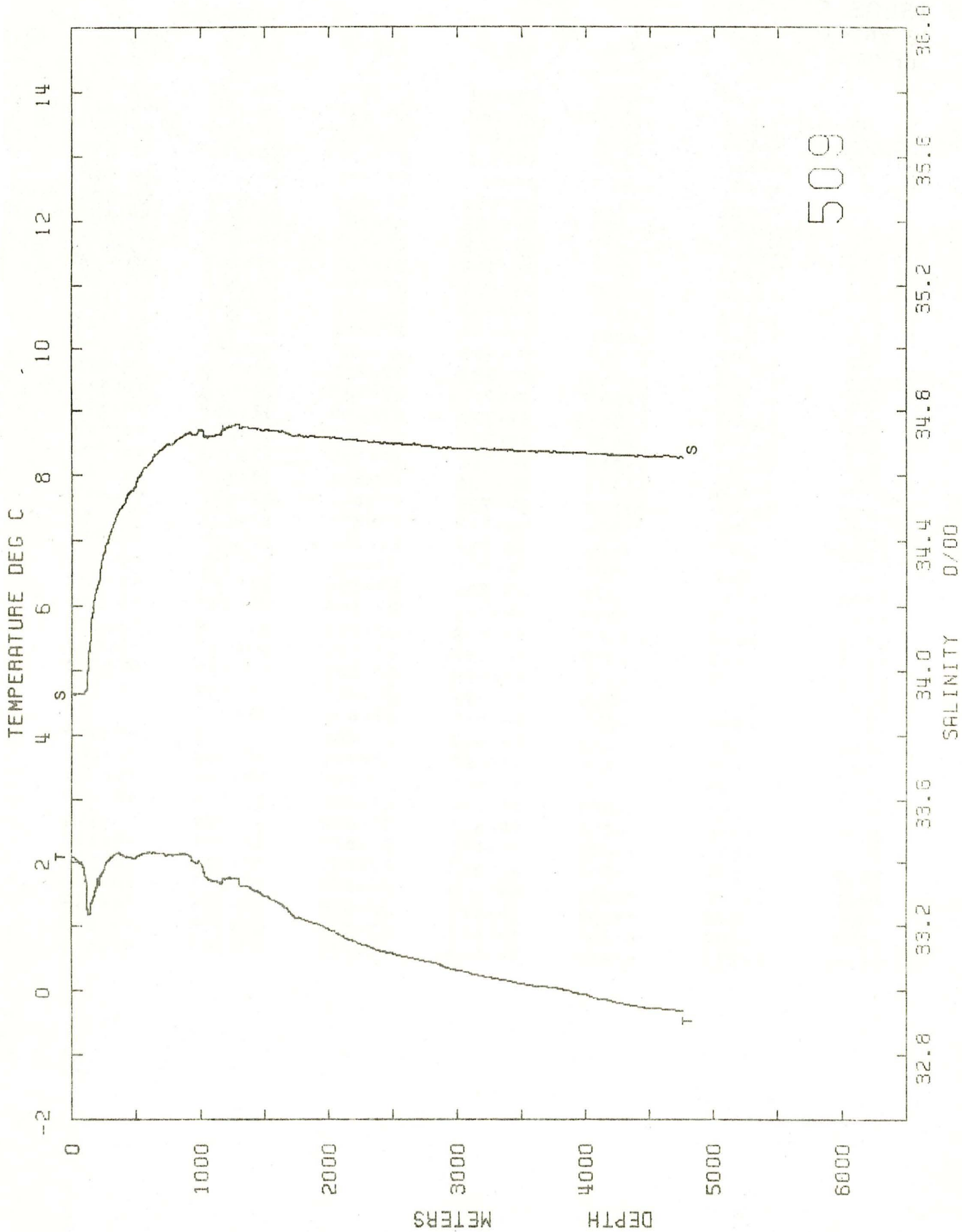
PDR=4794

DEPTH	TEMP	THETA	SALT	SIG-0	SIG-2	SIG-4
1	2.577	2.577	33.901	27.068	36.277	45.050
10	2.571	2.571	33.905	27.072	36.281	45.054
20	2.565	2.564	33.909	27.075	36.285	45.057
30	2.534	2.532	33.912	27.080	36.291	45.066
50	2.428	2.425	33.908	27.086	36.303	45.084
75	2.050	2.046	33.906	27.115	36.353	45.153
100	.783	.779	33.933	27.224	36.533	45.400
125	.761	.755	34.027	27.300	36.609	45.476
150	.889	.883	34.079	27.334	36.636	45.494
200	1.539	1.529	34.237	27.418	36.680	45.501
250	2.053	2.039	34.357	27.475	36.706	45.500
300	2.135	2.119	34.391	27.497	36.723	45.511
400	2.317	2.294	34.503	27.571	36.786	45.564
500	2.238	2.208	34.546	27.613	36.831	45.613
600	2.149	2.113	34.585	27.652	36.875	45.661
700	2.129	2.088	34.626	27.687	36.911	45.698
800	2.048	2.001	34.654	27.716	36.944	45.735
900	1.980	1.926	34.679	27.742	36.974	45.768
1000	1.956	1.895	34.694	27.757	36.990	45.786
1100	1.894	1.827	34.706	27.771	37.009	45.807
1200	1.831	1.757	34.718	27.786	37.028	45.829
1300	1.732	1.652	34.722	27.798	37.044	45.852
1400	1.702	1.615	34.732	27.808	37.057	45.866
1500	1.585	1.492	34.734	27.819	37.075	45.890
1600	1.537	1.438	34.740	27.827	37.086	45.904
1700	1.445	1.338	34.739	27.834	37.097	45.921
1800	1.364	1.251	34.737	27.838	37.107	45.936
1900	1.256	1.137	34.728	27.839	37.115	45.949
2000	1.182	1.056	34.724	27.841	37.121	45.960
2100	1.120	.987	34.728	27.849	37.133	45.976
2200	1.042	.902	34.724	27.851	37.140	45.988
2300	.951	.805	34.720	27.854	37.148	46.001
2400	.877	.724	34.714	27.855	37.154	46.012
2500	.787	.627	34.708	27.856	37.161	46.023
2600	.735	.568	34.709	27.860	37.168	46.034
2700	.661	.486	34.702	27.859	37.173	46.043
2800	.602	.421	34.702	27.863	37.180	46.054
2900	.524	.335	34.693	27.861	37.183	46.062
3000	.447	.251	34.691	27.864	37.191	46.074
3250	.307	.092	34.683	27.866	37.203	46.095
3500	.192	-.044	34.676	27.868	37.213	46.112
3750	.117	-.141	34.674	27.871	37.222	46.127
4000	.075	-.207	34.673	27.873	37.228	46.137
4250	.019	-.287	34.669	27.874	37.233	46.147
4500	-.079	-.409	34.664	27.875	37.242	46.162
4750	-.149	-.504	34.659	27.876	37.249	46.175
4772	-.155	-.512	34.660	27.877	37.250	46.177



ISLAS ORCADAS STAT 508
 11 /28/1975 GMT=1312 52 31.05 31 50.2W PDR=3458

DEPTH	TEMP	THETA	SALT	SIG-0	SIG-2	SIG-4
1	-.226	-.226	33.932	27.276	36.645	45.567
10	-.229	-.229	33.932	27.276	36.645	45.567
20	-.236	-.237	33.929	27.275	36.644	45.567
30	-.246	-.247	33.933	27.278	36.648	45.571
50	-.251	-.253	33.933	27.279	36.649	45.573
75	-.313	-.316	33.932	27.281	36.655	45.582
100	-1.020	-1.023	34.083	27.431	36.845	45.809
125	-.267	-.271	34.252	27.537	36.903	45.822
150	.747	.741	34.399	27.600	36.903	45.765
200	1.554	1.543	34.524	27.647	36.903	45.720
250	1.688	1.675	34.567	27.672	36.920	45.729
300	1.667	1.651	34.594	27.695	36.944	45.753
400	1.791	1.769	34.658	27.737	36.978	45.782
500	1.768	1.740	34.693	27.768	37.010	45.813
600	1.700	1.667	34.710	27.787	37.032	45.840
700	1.606	1.568	34.724	27.805	37.057	45.869
800	1.479	1.435	34.723	27.814	37.073	45.893
900	1.313	1.263	34.721	27.825	37.094	45.922
1000	1.212	1.157	34.726	27.836	37.110	45.944
1100	1.098	1.038	34.724	27.842	37.123	45.963
1200	.990	.924	34.719	27.846	37.134	45.980
1300	.897	.825	34.717	27.851	37.144	45.996
1400	.806	.729	34.711	27.852	37.151	46.008
1500	.717	.634	34.709	27.856	37.161	46.023
1600	.619	.530	34.701	27.856	37.167	46.035
1700	.564	.469	34.698	27.857	37.172	46.043
1800	.483	.382	34.693	27.858	37.177	46.053
1900	.443	.336	34.692	27.860	37.183	46.060
2000	.402	.288	34.692	27.863	37.188	46.069
2100	.349	.229	34.689	27.863	37.191	46.077
2200	.307	.180	34.687	27.865	37.196	46.083
2300	.270	.136	34.685	27.865	37.200	46.089
2400	.235	.093	34.684	27.867	37.204	46.095
2500	.192	.043	34.684	27.869	37.209	46.104
2600	.168	.012	34.681	27.868	37.209	46.106
2700	.141	-.023	34.681	27.870	37.214	46.113
2800	.121	-.051	34.680	27.871	37.216	46.116
2900	.110	-.070	34.678	27.870	37.217	46.118
3000	.092	-.096	34.673	27.868	37.216	46.119
3250	.007	-.202	34.670	27.871	37.225	46.134
3444	-.277	-.496	34.659	27.875	37.247	46.173



ISLAS ORCADAS STAT 509

11 /27/1975

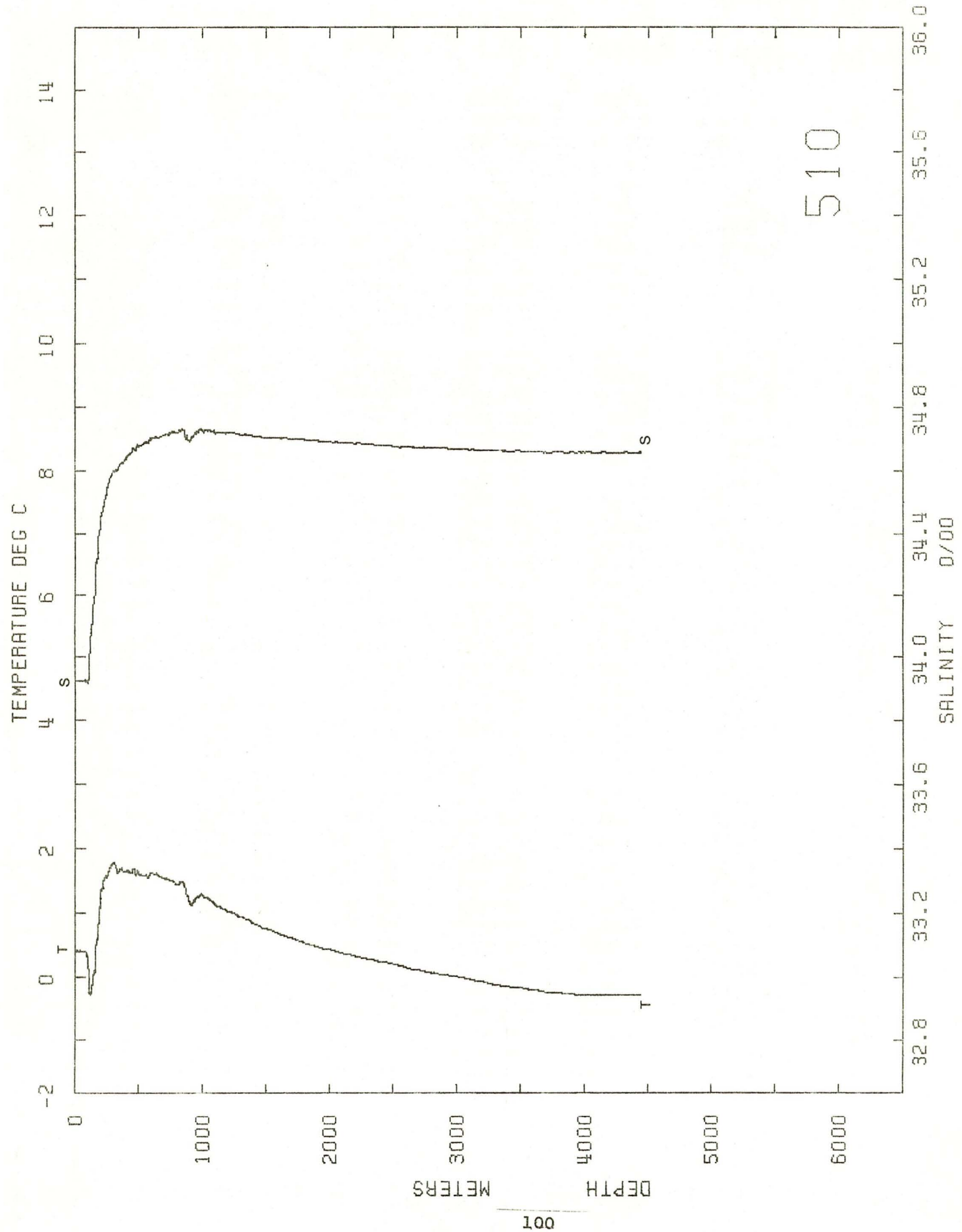
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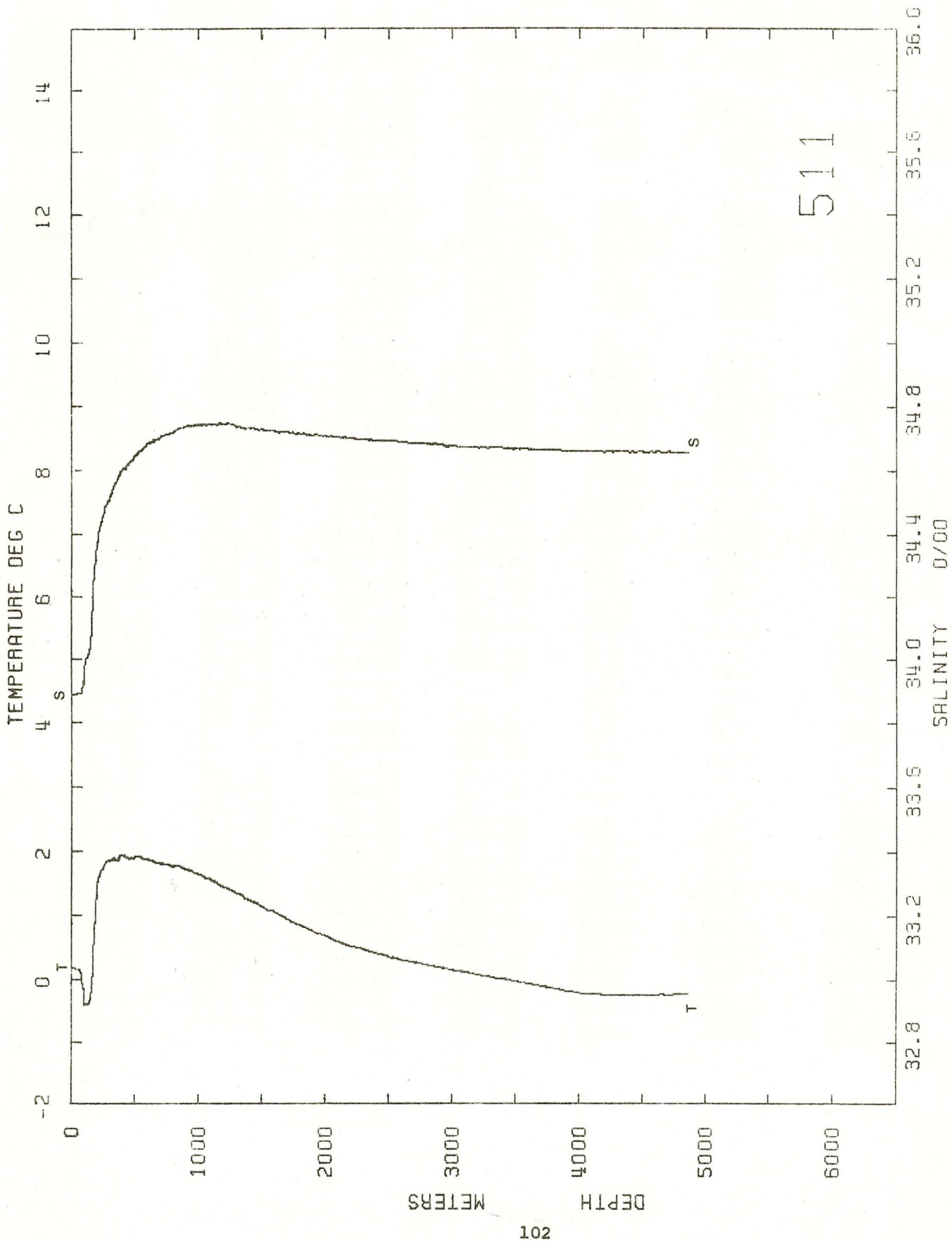
PDR=4786

DEPTH	TEMP	THETA	SALT	SIG-0	SIG-2	SIG-4
1	2.080	2.080	33.929	27.131	36.367	45.164
10	2.076	2.076	33.931	27.132	36.368	45.166
20	2.077	2.076	33.929	27.131	36.367	45.166
30	2.064	2.062	33.930	27.133	36.370	45.169
50	2.001	1.999	33.929	27.136	36.377	45.179
75	1.983	1.979	33.930	27.139	36.381	45.184
100	1.894	1.888	33.933	27.148	36.394	45.202
125	1.271	1.265	33.997	27.244	36.525	45.365
150	1.311	1.304	34.146	27.361	36.637	45.472
200	1.656	1.646	34.263	27.430	36.685	45.500
250	1.870	1.857	34.362	27.494	36.735	45.538
300	2.053	2.037	34.423	27.529	36.759	45.551
400	2.113	2.090	34.511	27.595	36.821	45.609
500	2.068	2.039	34.576	27.651	36.879	45.668
600	2.153	2.118	34.638	27.694	36.915	45.700
700	2.135	2.093	34.682	27.731	36.954	45.739
800	2.120	2.072	34.705	27.751	36.975	45.761
900	2.123	2.067	34.731	27.772	36.996	45.782
1000	1.980	1.919	34.739	27.791	37.022	45.816
1100	1.702	1.637	34.722	27.799	37.046	45.855
1200	1.734	1.661	34.747	27.816	37.063	45.869
1300	1.692	1.612	34.753	27.825	37.074	45.883
1400	1.577	1.491	34.746	27.828	37.083	45.899
1500	1.457	1.366	34.739	27.832	37.095	45.917
1600	1.372	1.274	34.737	27.837	37.104	45.932
1700	1.208	1.105	34.724	27.838	37.116	45.952
1800	1.104	.994	34.720	27.842	37.126	45.968
1900	1.036	.920	34.720	27.847	37.135	45.981
2000	.946	.824	34.717	27.850	37.145	45.995
2100	.849	.720	34.713	27.854	37.153	46.010
2200	.758	.623	34.708	27.856	37.162	46.024
2300	.685	.543	34.704	27.857	37.167	46.034
2400	.611	.463	34.699	27.858	37.173	46.045
2500	.573	.417	34.696	27.859	37.176	46.051
2600	.513	.350	34.694	27.861	37.183	46.061
2700	.471	.301	34.693	27.862	37.187	46.067
2800	.431	.253	34.688	27.861	37.188	46.071
2900	.352	.167	34.685	27.863	37.196	46.083
3000	.303	.110	34.683	27.865	37.201	46.093
3250	.199	-.014	34.679	27.868	37.212	46.110
3500	.102	-.132	34.674	27.870	37.221	46.125
3750	.037	-.219	34.672	27.873	37.228	46.137
4000	-.068	-.346	34.667	27.875	37.239	46.155
4250	-.192	-.492	34.662	27.877	37.249	46.174
4500	-.282	-.605	34.659	27.880	37.259	46.191
4750	-.319	-.668	34.656	27.881	37.263	46.198
4763	-.319	-.670	34.655	27.880	37.262	46.197



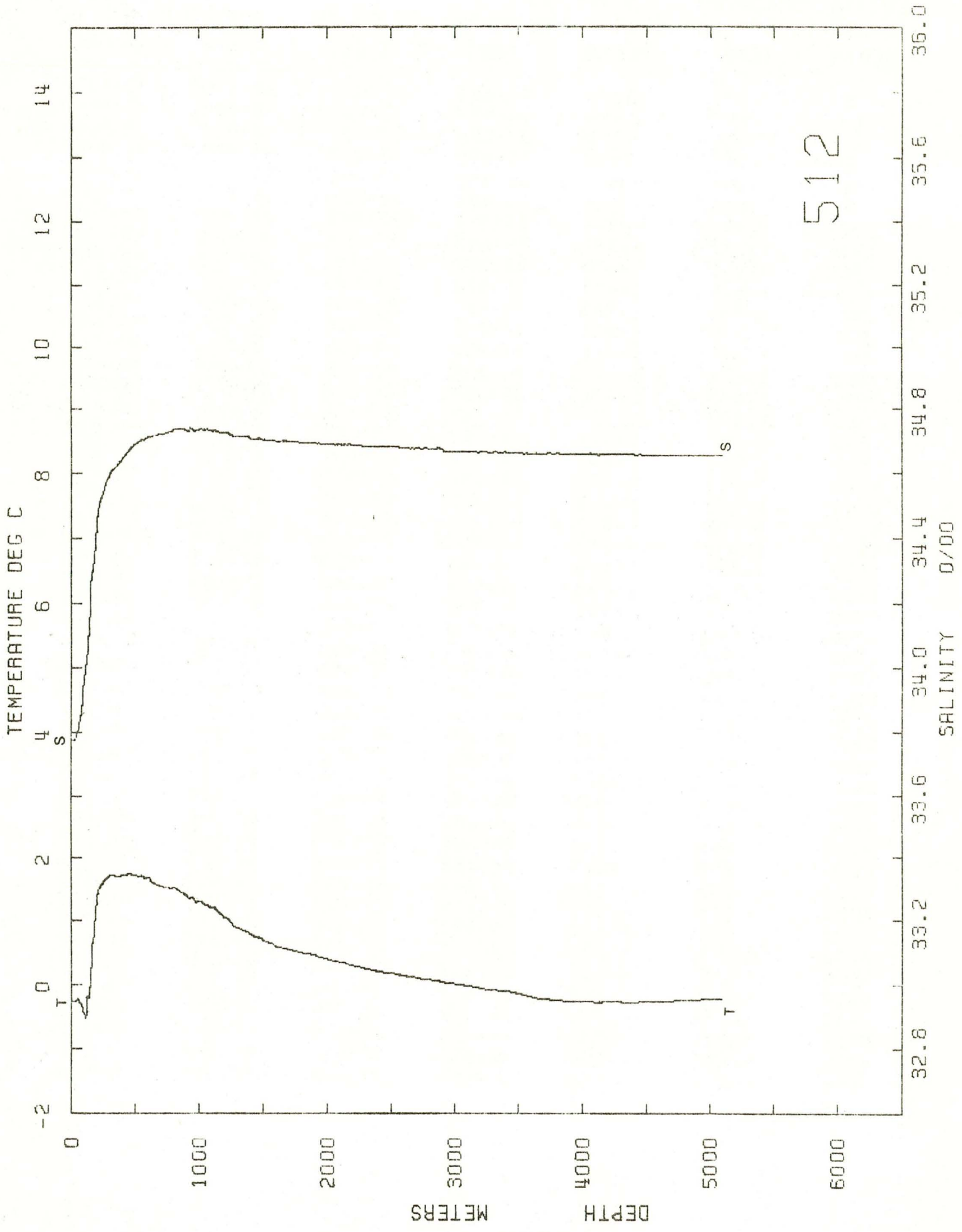
ISLAS ORCADAS STAT 510
 11 /28/1975 GMT=0720 54 00.4S 20 57.2W PDR=4456

DEPTH	TEMP	THETA	SALT	SIG-0	SIG-2	SIG-4
1	.418	.418	33.925	27.238	36.569	45.455
10	.409	.408	33.927	27.241	36.572	45.459
20	.412	.412	33.927	27.240	36.572	45.459
30	.407	.406	33.926	27.239	36.571	45.458
50	.402	.400	33.928	27.241	36.573	45.460
75	.392	.389	33.929	27.243	36.575	45.463
100	.253	.249	33.923	27.246	36.587	45.482
125	.255	.260	34.074	27.393	36.761	45.682
150	.094	.088	34.191	27.470	36.816	45.716
200	1.229	1.220	34.442	27.604	36.879	45.715
250	1.559	1.547	34.537	27.657	36.913	45.729
300	1.777	1.761	34.600	27.692	36.934	45.738
400	1.639	1.618	34.643	27.737	36.986	45.797
500	1.615	1.588	34.679	27.768	37.019	45.831
600	1.613	1.580	34.705	27.789	37.040	45.852
700	1.541	1.503	34.713	27.802	37.056	45.873
800	1.443	1.399	34.722	27.816	37.076	45.897
900	1.152	1.103	34.696	27.815	37.093	45.931
1000	1.273	1.217	34.727	27.832	37.103	45.934
1100	1.135	1.074	34.722	27.838	37.117	45.956
1200	1.019	.953	34.722	27.846	37.133	45.977
1300	.935	.864	34.714	27.846	37.137	45.987
1400	.837	.759	34.712	27.850	37.148	46.003
1500	.758	.675	34.708	27.853	37.155	46.015
1600	.679	.589	34.705	27.855	37.162	46.027
1700	.612	.516	34.702	27.857	37.169	46.038
1800	.534	.433	34.700	27.861	37.177	46.051
1900	.474	.367	34.696	27.862	37.183	46.059
2000	.434	.320	34.693	27.862	37.185	46.064
2100	.372	.251	34.692	27.864	37.192	46.075
2200	.328	.200	34.686	27.863	37.193	46.080
2300	.285	.150	34.685	27.865	37.198	46.087
2400	.238	.096	34.683	27.865	37.202	46.094
2500	.204	.055	34.678	27.864	37.203	46.098
2600	.152	.003	34.678	27.867	37.209	46.107
2700	.112	.051	34.674	27.866	37.211	46.111
2800	.071	.100	34.675	27.869	37.218	46.120
2900	.031	.147	34.673	27.870	37.222	46.126
3000	.010	.176	34.670	27.869	37.222	46.129
3250	.095	.301	34.665	27.871	37.231	46.146
3500	.165	.392	34.663	27.874	37.240	46.159
3750	.244	.492	34.660	27.876	37.248	46.174
4000	.276	.548	34.660	27.879	37.254	46.182
4250	.283	.579	34.658	27.878	37.256	46.185
4442	.274	.591	34.659	27.879	37.258	46.187



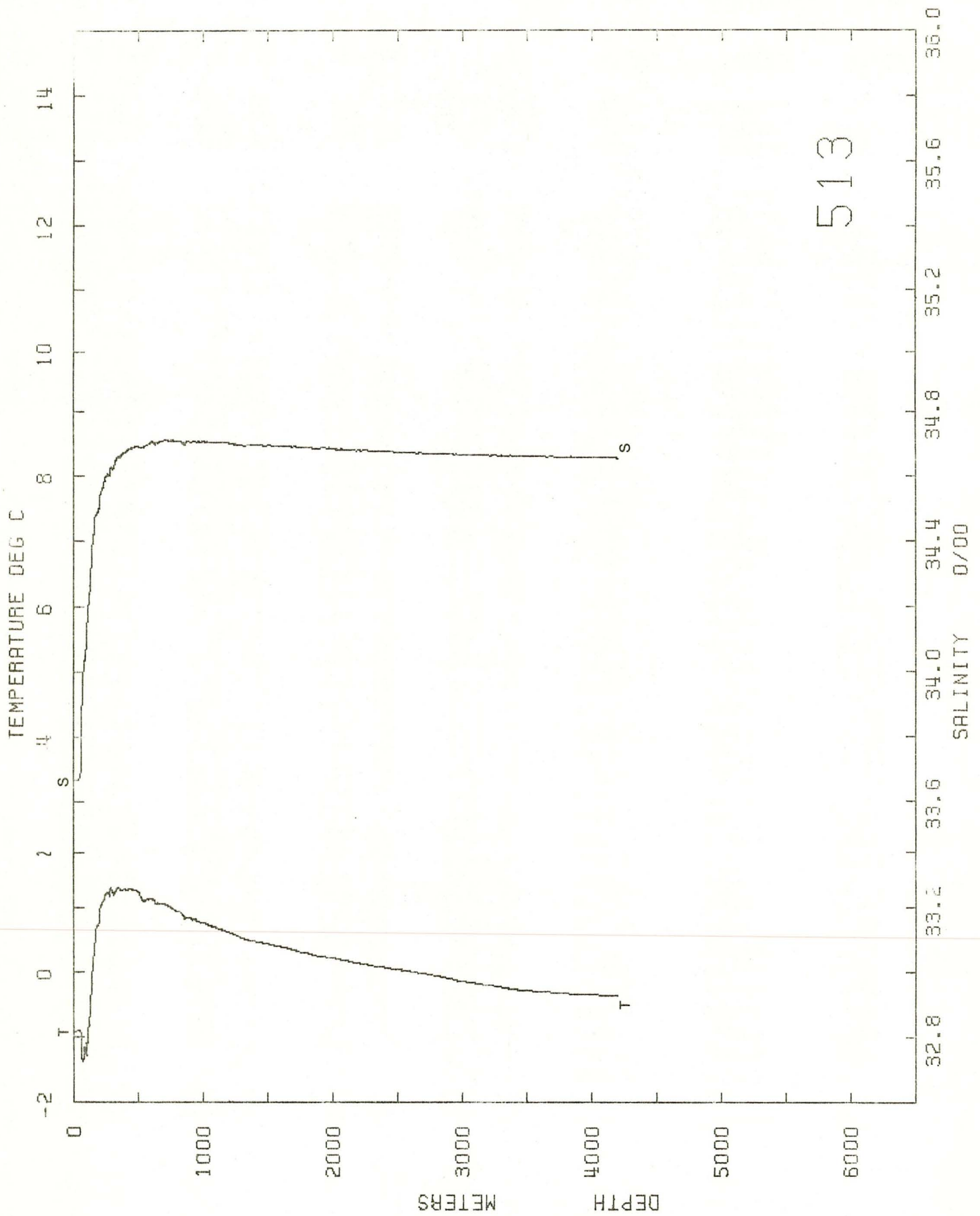
ISLAS ORCADAS STAT 511
 11 /30/1975 GMT=0646 55 59.55 17 07.3W PDR=4876

DEPTH	TEMP	THETA	SALT	SIG-0	SIG-2	SIG-4
1	.173	.173	33.891	27.224	36.570	45.470
10	.174	.174	33.889	27.222	36.568	45.469
20	.174	.174	33.888	27.221	36.567	45.468
30	.169	.168	33.890	27.223	36.569	45.470
50	.159	.157	33.892	27.225	36.572	45.473
75	.108	.106	33.891	27.228	36.577	45.482
100	-.331	-.334	33.938	27.287	36.662	45.589
125	-.389	-.393	34.005	27.343	36.720	45.651
150	-.280	-.285	34.050	27.374	36.745	45.668
200	1.415	1.405	34.372	27.535	36.801	45.627
250	1.742	1.729	34.461	27.583	36.829	45.637
300	1.844	1.828	34.512	27.616	36.856	45.658
400	1.939	1.916	34.603	27.682	36.916	45.711
500	1.908	1.880	34.645	27.718	36.953	45.751
600	1.885	1.850	34.685	27.752	36.989	45.787
700	1.807	1.767	34.705	27.775	37.016	45.818
800	1.767	1.721	34.720	27.790	37.033	45.837
900	1.720	1.667	34.736	27.807	37.053	45.860
1000	1.636	1.578	34.742	27.819	37.070	45.881
1100	1.552	1.488	34.742	27.826	37.081	45.897
1200	1.442	1.372	34.744	27.835	37.097	45.919
1300	1.346	1.270	34.735	27.836	37.104	45.931
1400	1.235	1.153	34.731	27.840	37.115	45.948
1500	1.141	1.053	34.726	27.843	37.123	45.963
1600	1.053	.959	34.722	27.846	37.131	45.976
1700	.940	.840	34.719	27.851	37.144	45.995
1800	.847	.742	34.713	27.852	37.151	46.007
1900	.753	.641	34.709	27.856	37.160	46.022
2000	.684	.566	34.707	27.858	37.168	46.033
2100	.597	.472	34.704	27.861	37.176	46.046
2200	.521	.390	34.699	27.863	37.181	46.057
2300	.475	.337	34.695	27.862	37.184	46.063
2400	.412	.267	34.693	27.865	37.191	46.073
2500	.358	.207	34.692	27.867	37.196	46.082
2600	.311	.153	34.688	27.867	37.200	46.089
2700	.269	.102	34.684	27.867	37.203	46.094
2800	.232	.058	34.682	27.867	37.206	46.100
2900	.195	.013	34.681	27.869	37.210	46.107
3000	.152	-.037	34.676	27.867	37.211	46.111
3250	.061	-.148	34.670	27.868	37.220	46.125
3500	-.024	-.254	34.666	27.870	37.228	46.139
3750	-.117	-.369	34.663	27.873	37.237	46.155
4000	-.208	-.482	34.660	27.876	37.248	46.171
4250	-.233	-.531	34.659	27.877	37.251	46.178
4500	-.234	-.559	34.658	27.878	37.254	46.182
4750	-.227	-.579	34.655	27.876	37.253	46.183
4856	-.219	-.583	34.655	27.876	37.254	46.184



ISLAS ORCADAS STAT 512
 12 /01/1975 GMT=1552 56 36.4S 20 16.5W PDR=5112

DEPTH	TEMP	THETA	SALT	SIG-0	SIG-2	SIG-4
0	-.260	-.260	33.779	27.155	36.529	45.455
10	-.261	-.261	33.780	27.155	36.529	45.455
20	-.261	-.261	33.782	27.157	36.531	45.457
30	-.263	-.264	33.784	27.159	36.533	45.460
50	-.227	-.229	33.807	27.176	36.547	45.471
75	-.297	-.300	33.856	27.219	36.594	45.521
100	-.448	-.451	33.967	27.315	36.697	45.631
125	-.281	-.285	34.044	27.370	36.740	45.663
150	.132	.127	34.251	27.516	36.858	45.756
200	1.362	1.352	34.456	27.606	36.874	45.702
250	1.612	1.599	34.549	27.663	36.916	45.729
300	1.704	1.688	34.601	27.697	36.944	45.751
400	1.716	1.694	34.651	27.737	36.982	45.789
500	1.717	1.689	34.695	27.773	37.018	45.824
600	1.678	1.645	34.716	27.793	37.040	45.848
700	1.540	1.501	34.724	27.810	37.065	45.880
800	1.514	1.469	34.739	27.824	37.081	45.898
900	1.392	1.342	34.735	27.830	37.094	45.918
1000	1.299	1.243	34.739	27.841	37.110	45.939
1100	1.197	1.136	34.735	27.844	37.120	45.955
1200	1.040	.974	34.728	27.850	37.134	45.978
1300	.881	.810	34.717	27.852	37.146	45.999
1400	.781	.704	34.712	27.854	37.155	46.013
1500	.686	.604	34.708	27.857	37.163	46.027
1600	.594	.506	34.703	27.859	37.171	46.040
1700	.546	.451	34.701	27.860	37.176	46.048
1800	.490	.390	34.696	27.860	37.179	46.055
1900	.450	.343	34.696	27.863	37.185	46.063
2000	.389	.276	34.692	27.864	37.190	46.072
2100	.342	.222	34.692	27.867	37.195	46.080
2200	.290	.163	34.689	27.867	37.200	46.088
2300	.245	.111	34.686	27.867	37.203	46.093
2400	.205	.064	34.686	27.870	37.208	46.102
2500	.176	.028	34.685	27.871	37.211	46.107
2600	.140	-.015	34.680	27.869	37.213	46.111
2700	.104	-.059	34.681	27.872	37.218	46.119
2800	.072	-.098	34.678	27.872	37.221	46.123
2900	.040	-.139	34.675	27.872	37.223	46.127
3000	.011	-.175	34.669	27.869	37.221	46.129
3250	-.073	-.279	34.667	27.872	37.231	46.144
3500	-.140	-.367	34.664	27.873	37.238	46.156
3750	-.232	-.480	34.663	27.878	37.249	46.174
4000	-.268	-.540	34.661	27.879	37.254	46.182
4250	-.270	-.567	34.661	27.880	37.256	46.186
4500	-.262	-.586	34.658	27.879	37.257	46.187
4750	-.248	-.599	34.657	27.879	37.257	46.188
5000	-.225	-.605	34.657	27.879	37.258	46.189
5092	-.220	-.611	34.656	27.878	37.257	46.189



ISLAS ORCADAS STAT 513

12 /02/1975

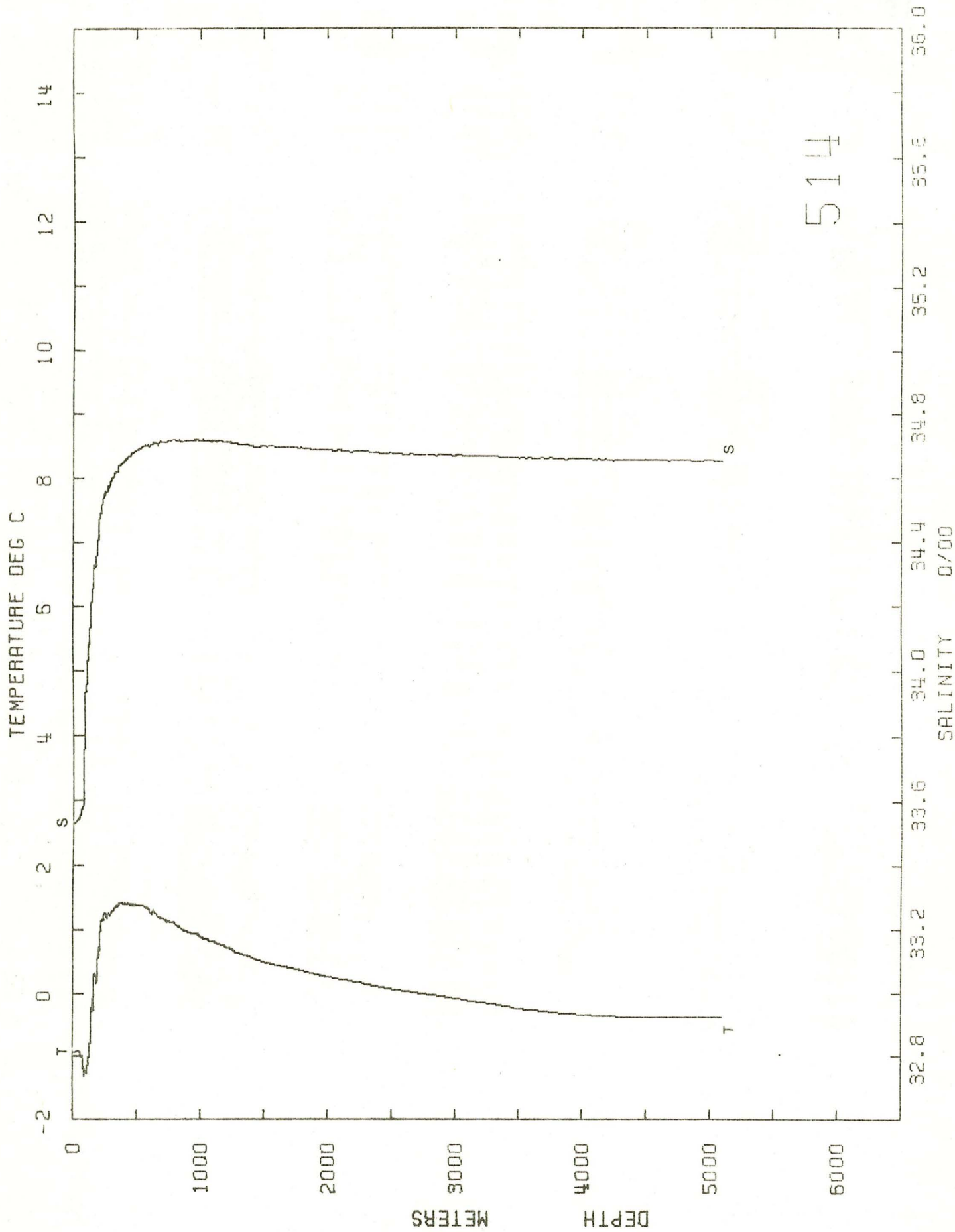
GMT=0730

56 52.05

21 55.5W

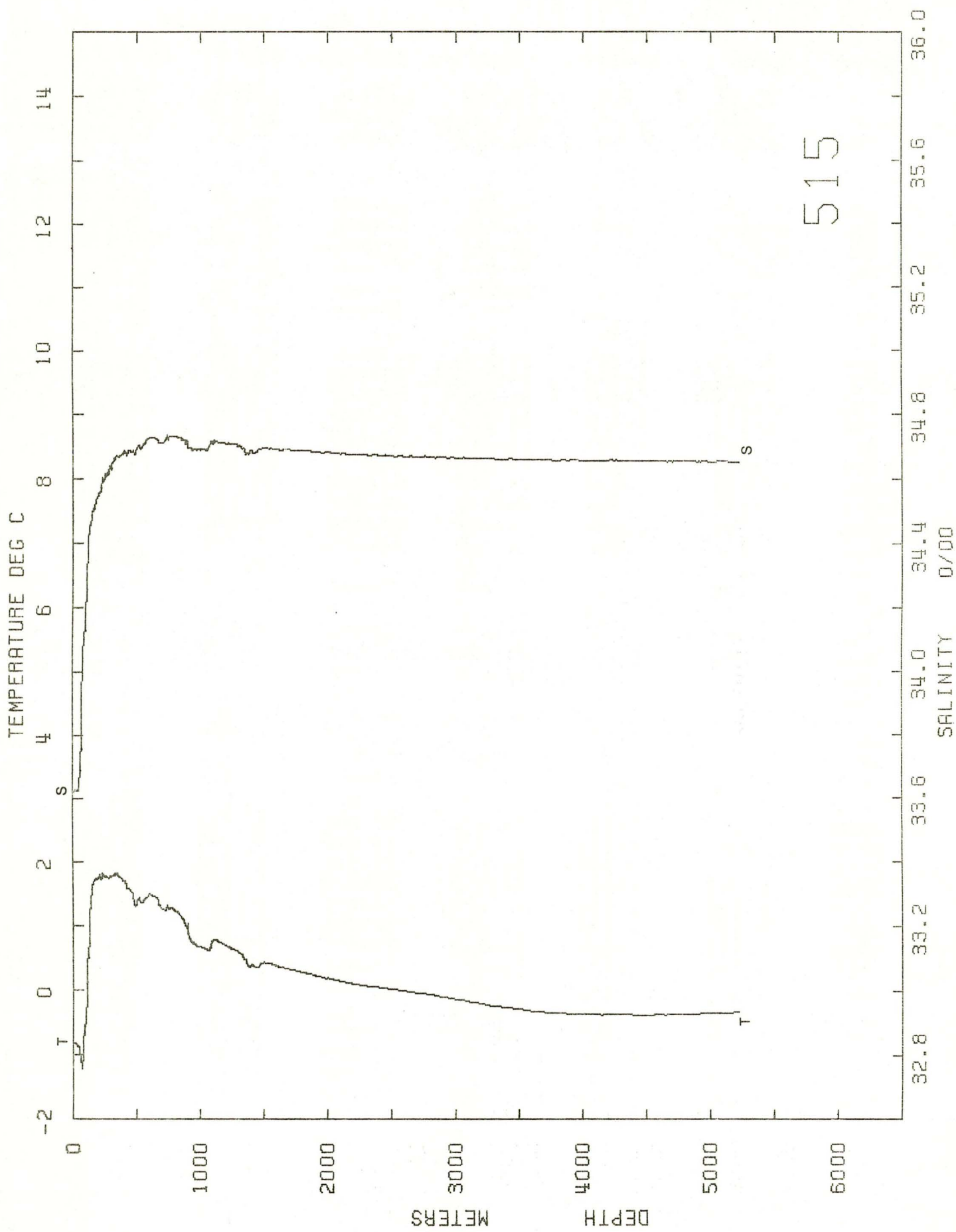
PDR=4224

DEPTH	TEMP	THETA	SALT	SIG-0	SIG-2	SIG-4
1	-.911	-.911	33.669	27.092	36.506	45.472
10	-.916	-.916	33.669	27.093	36.508	45.473
20	-.912	-.912	33.669	27.093	36.508	45.473
30	-.908	-.908	33.671	27.094	36.508	45.474
50	-.916	-.917	33.683	27.104	36.519	45.484
75	-1.334	-1.336	34.008	27.381	36.816	45.800
100	-1.207	-1.210	34.122	27.469	36.894	45.868
125	-.684	-.688	34.250	27.553	36.944	45.886
150	.168	.163	34.404	27.638	36.975	45.868
200	.881	.872	34.522	27.691	36.986	45.838
250	1.212	1.200	34.601	27.732	37.007	45.840
300	1.261	1.246	34.624	27.748	37.019	45.850
400	1.290	1.270	34.675	27.788	37.057	45.885
500	1.253	1.228	34.693	27.805	37.075	45.906
600	1.139	1.109	34.707	27.824	37.102	45.938
700	1.062	1.026	34.713	27.834	37.116	45.957
800	.939	.899	34.711	27.841	37.131	45.978
900	.838	.792	34.708	27.845	37.141	45.994
1000	.764	.713	34.708	27.850	37.151	46.008
1100	.690	.633	34.705	27.853	37.158	46.020
1200	.612	.550	34.703	27.857	37.167	46.033
1300	.522	.455	34.698	27.858	37.173	46.045
1400	.469	.396	34.697	27.860	37.179	46.055
1500	.431	.352	34.696	27.862	37.183	46.061
1600	.388	.302	34.693	27.863	37.187	46.068
1700	.341	.249	34.693	27.865	37.193	46.076
1800	.291	.193	34.690	27.866	37.197	46.083
1900	.243	.139	34.687	27.867	37.201	46.090
2000	.214	.103	34.685	27.867	37.203	46.094
2100	.177	.060	34.684	27.868	37.207	46.101
2200	.132	.007	34.681	27.869	37.211	46.108
2300	.093	-.038	34.679	27.870	37.214	46.113
2400	.063	-.075	34.678	27.870	37.217	46.119
2500	.039	-.107	34.675	27.869	37.218	46.121
2600	.007	-.146	34.675	27.871	37.222	46.128
2700	-.022	-.182	34.671	27.871	37.224	46.131
2800	-.064	-.232	34.670	27.872	37.228	46.139
2900	-.104	-.279	34.669	27.873	37.233	46.145
3000	-.141	-.323	34.668	27.874	37.236	46.152
3250	-.213	-.416	34.665	27.876	37.244	46.164
3500	-.285	-.509	34.662	27.879	37.252	46.177
3750	-.322	-.568	34.659	27.879	37.256	46.185
4000	-.348	-.618	34.658	27.880	37.259	46.191
4203	-.361	-.650	34.656	27.880	37.261	46.195



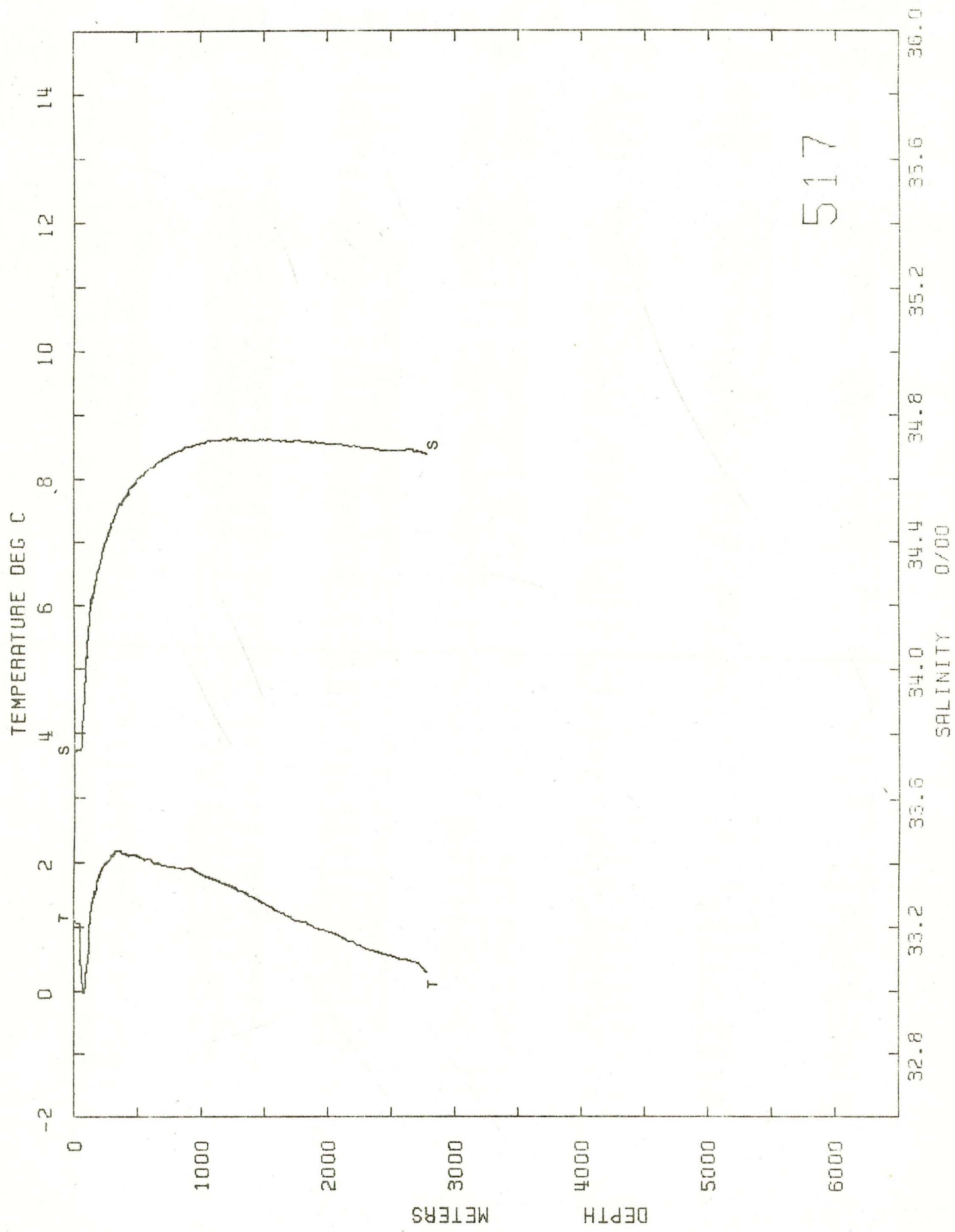
ISLAS ORCADAS STAT 514
 12 /03/1975 GMT=0133 57 05.25 23 31.5N PDR=5086

DEPTH	TEMP	THETA	SALT	SIG-0	SIG-2	SIG-4
1	-.937	-.937	33.527	26.979	36.397	45.366
10	-.940	-.940	33.531	26.982	36.401	45.370
20	-.935	-.936	33.536	26.986	36.404	45.373
30	-.928	-.929	33.539	26.988	36.406	45.374
50	-.927	-.929	33.552	26.999	36.416	45.384
75	-1.035	-1.037	33.621	27.058	36.481	45.455
100	-1.249	-1.252	33.950	27.332	36.762	45.742
125	-1.010	-1.013	34.083	27.431	36.845	45.808
150	-.176	-.181	34.243	27.525	36.885	45.800
200	.682	.673	34.424	27.625	36.933	45.797
250	1.252	1.240	34.557	27.695	36.968	45.800
300	1.267	1.252	34.596	27.725	36.996	45.828
400	1.403	1.383	34.655	27.763	37.026	45.849
500	1.375	1.349	34.688	27.792	37.056	45.881
600	1.289	1.258	34.701	27.809	37.078	45.907
700	1.180	1.143	34.711	27.825	37.101	45.936
800	1.108	1.066	34.718	27.835	37.115	45.954
900	.970	.923	34.716	27.843	37.132	45.977
1000	.889	.836	34.715	27.848	37.141	45.992
1100	.816	.758	34.716	27.854	37.152	46.007
1200	.731	.668	34.714	27.858	37.161	46.020
1300	.630	.561	34.702	27.855	37.164	46.030
1400	.570	.495	34.700	27.857	37.170	46.039
1500	.492	.412	34.699	27.861	37.179	46.054
1600	.440	.353	34.697	27.863	37.184	46.061
1700	.403	.311	34.694	27.863	37.187	46.067
1800	.356	.257	34.693	27.865	37.192	46.074
1900	.304	.199	34.690	27.866	37.196	46.083
2000	.261	.149	34.688	27.867	37.201	46.089
2100	.227	.108	34.686	27.868	37.204	46.095
2200	.190	.065	34.683	27.867	37.205	46.099
2300	.146	.014	34.682	27.870	37.211	46.108
2400	.102	-.037	34.677	27.868	37.212	46.112
2500	.067	-.079	34.677	27.870	37.217	46.118
2600	.047	-.107	34.674	27.869	37.217	46.121
2700	.010	-.151	34.671	27.868	37.220	46.125
2800	-.014	-.183	34.671	27.871	37.224	46.131
2900	-.042	-.219	34.670	27.872	37.228	46.136
3000	-.079	-.263	34.670	27.874	37.232	46.143
3250	-.150	-.355	34.667	27.875	37.239	46.156
3500	-.243	-.468	34.662	27.877	37.248	46.171
3750	-.294	-.541	34.662	27.880	37.255	46.183
4000	-.340	-.610	34.659	27.881	37.260	46.191
4250	-.368	-.663	34.656	27.880	37.263	46.197
4500	-.381	-.701	34.655	27.881	37.266	46.203
4750	-.377	-.724	34.655	27.882	37.268	46.206
5000	-.379	-.753	34.654	27.883	37.271	46.210
5094	-.375	-.760	34.653	27.882	37.271	46.210



ISLAS ORCADAS STAT 515
 12 /03/1975 GMT=1430 57 09.25 24 29.1W PDR=5355

DEPTH	TEMP	THETA	SALT	SIG-0	SIG-2	SIG-4
1	0.820	0.820	33.620	27.049	36.459	45.419
10	0.818	0.818	33.625	27.053	36.463	45.424
20	0.828	0.829	33.625	27.054	36.464	45.425
30	0.849	0.850	33.623	27.053	36.465	45.428
50	0.935	0.936	33.628	27.061	36.477	45.445
75	1.099	1.101	33.976	27.348	36.768	45.739
100	0.410	0.414	34.180	27.485	36.861	45.789
125	0.675	0.670	34.432	27.631	36.938	45.803
150	1.599	1.591	34.493	27.618	36.872	45.687
200	1.751	1.741	34.551	27.654	36.898	45.704
250	1.761	1.748	34.608	27.699	36.942	45.747
300	1.766	1.750	34.639	27.724	36.966	45.771
400	1.703	1.682	34.683	27.764	37.009	45.816
500	1.365	1.339	34.696	27.799	37.063	45.888
600	1.494	1.462	34.727	27.815	37.073	45.890
700	1.258	1.221	34.713	27.821	37.092	45.923
800	1.229	1.186	34.731	27.838	37.110	45.943
900	0.967	0.921	34.701	27.831	37.119	45.967
1000	0.676	0.626	34.690	27.841	37.147	46.010
1100	0.774	0.716	34.714	27.855	37.155	46.013
1200	0.688	0.625	34.709	27.857	37.162	46.024
1300	0.583	0.515	34.702	27.858	37.169	46.038
1400	0.383	0.311	34.688	27.858	37.182	46.061
1500	0.430	0.350	34.695	27.861	37.183	46.061
1600	0.379	0.293	34.692	27.862	37.187	46.068
1700	0.326	0.235	34.689	27.863	37.192	46.076
1800	0.278	0.181	34.688	27.865	37.197	46.084
1900	0.229	0.125	34.684	27.865	37.200	46.091
2000	0.189	0.078	34.682	27.866	37.204	46.097
2100	0.142	0.025	34.678	27.866	37.207	46.102
2200	0.102	0.022	34.678	27.868	37.211	46.110
2300	0.073	0.058	34.675	27.867	37.214	46.114
2400	0.044	0.094	34.673	27.868	37.216	46.118
2500	0.022	0.123	34.671	27.868	37.217	46.121
2600	0.008	0.160	34.669	27.868	37.220	46.126
2700	0.037	0.197	34.668	27.869	37.223	46.131
2800	0.066	0.234	34.669	27.871	37.227	46.138
2900	0.101	0.277	34.667	27.872	37.231	46.144
3000	0.133	0.316	34.665	27.872	37.233	46.148
3250	0.224	0.427	34.663	27.876	37.243	46.165
3500	0.284	0.508	34.661	27.877	37.250	46.176
3750	0.336	0.582	34.658	27.879	37.256	46.186
4000	0.367	0.636	34.657	27.880	37.261	46.194
4250	0.367	0.661	34.658	27.882	37.264	46.198
4500	0.375	0.695	34.656	27.882	37.266	46.203
4750	0.364	0.711	34.655	27.882	37.267	46.205
5000	0.347	0.723	34.653	27.881	37.266	46.205
5224	0.324	0.726	34.653	27.880	37.267	46.204



ISLAS ORCADAS STAT 517

12 /09/1975

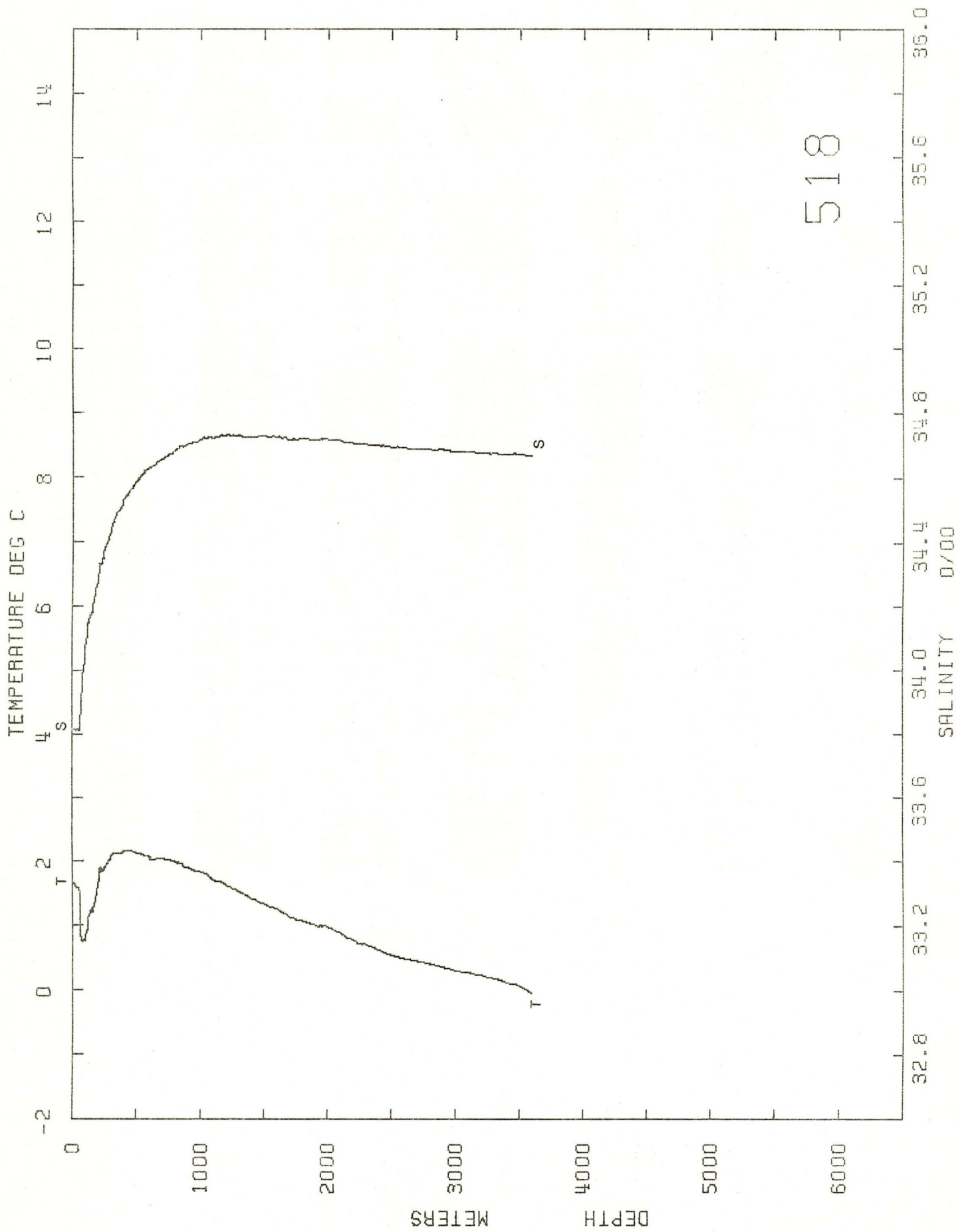
GMT=1805

52 40.6S

42 05.3W

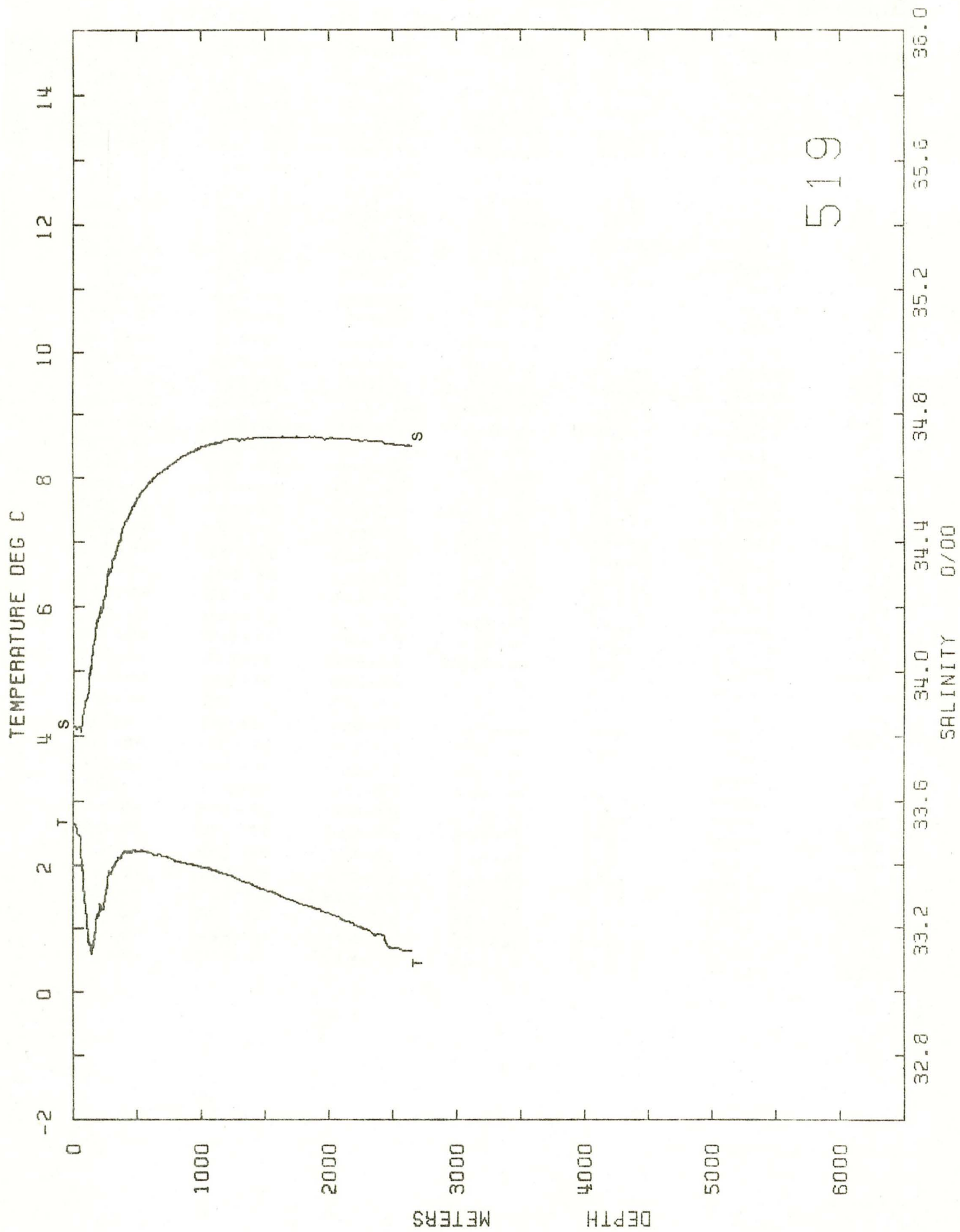
PDR=2774

DEPTH	TEMP	THETA	SALT	SIG-0	SIG-2	SIG-4
0	1.153	1.153	33.747	27.051	36.342	45.192
10	1.078	1.078	33.746	27.055	36.351	45.204
20	1.062	1.061	33.747	27.057	36.353	45.208
30	1.058	1.057	33.747	27.057	36.353	45.208
50	.984	.982	33.747	27.062	36.363	45.222
75	-.020	-.023	33.897	27.239	36.596	45.507
100	.370	.366	34.068	27.356	36.688	45.575
125	1.083	1.077	34.189	27.410	36.699	45.545
150	1.408	1.401	34.232	27.423	36.692	45.521
200	1.810	1.799	34.327	27.470	36.715	45.522
250	1.991	1.977	34.405	27.519	36.753	45.549
300	2.107	2.090	34.461	27.555	36.781	45.570
400	2.140	2.117	34.542	27.617	36.841	45.627
500	2.095	2.066	34.602	27.669	36.895	45.683
600	2.049	2.014	34.635	27.700	36.927	45.718
700	1.967	1.926	34.661	27.728	36.960	45.755
800	1.919	1.872	34.683	27.749	36.984	45.781
900	1.919	1.865	34.701	27.765	36.999	45.796
1000	1.817	1.757	34.712	27.782	37.023	45.825
1100	1.741	1.675	34.718	27.793	37.039	45.844
1200	1.659	1.587	34.721	27.802	37.052	45.863
1300	1.566	1.488	34.720	27.808	37.064	45.880
1400	1.468	1.384	34.720	27.815	37.077	45.899
1500	1.367	1.277	34.722	27.824	37.092	45.919
1600	1.253	1.157	34.720	27.831	37.105	45.939
1700	1.158	1.055	34.717	27.836	37.117	45.956
1800	1.080	.971	34.717	27.841	37.126	45.970
1900	.985	.869	34.714	27.845	37.136	45.986
2000	.934	.812	34.709	27.845	37.140	45.991
2100	.860	.732	34.707	27.848	37.147	46.004
2200	.768	.633	34.702	27.850	37.155	46.018
2300	.669	.528	34.696	27.852	37.163	46.031
2400	.606	.458	34.690	27.851	37.167	46.039
2500	.552	.396	34.689	27.854	37.173	46.048
2600	.505	.343	34.689	27.857	37.178	46.057
2700	.441	.271	34.686	27.858	37.185	46.067
2781	.298	.124	34.677	27.860	37.195	46.086



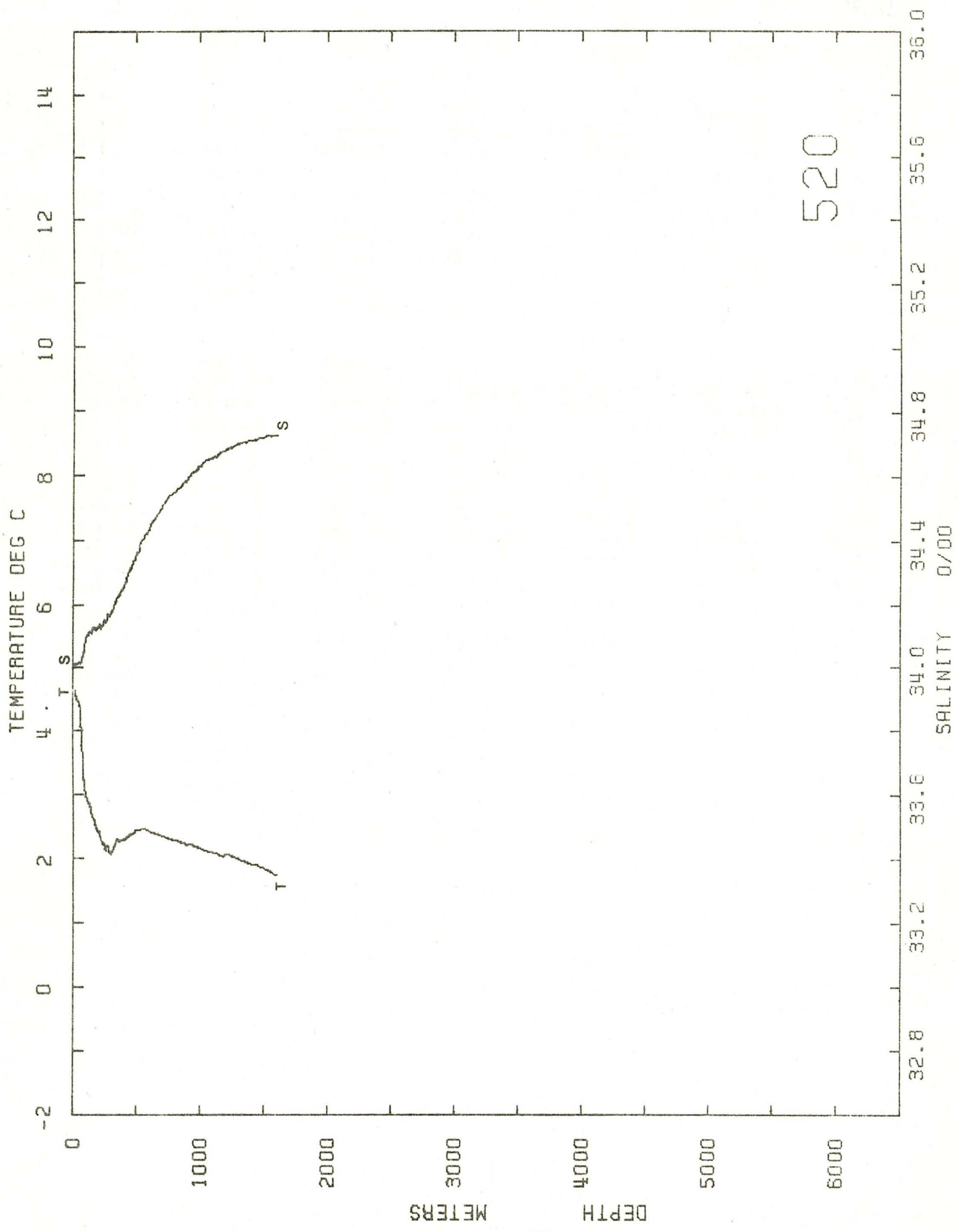
ISLAS ORCADAS STAT 518
 12 /10/1975 GMT=0240 52 24.45 42 10.0W PDR=3644

DEPTH	TEMP	THETA	SALT	SIG-0	SIG-2	SIG-4
1	1.656	1.656	33.814	27.070	36.331	45.154
10	1.652	1.652	33.816	27.072	36.333	45.156
20	1.603	1.602	33.816	27.076	36.340	45.165
30	1.589	1.588	33.815	27.076	36.341	45.166
50	1.576	1.574	33.812	27.075	36.341	45.167
75	.754	.751	33.926	27.219	36.531	45.399
100	.765	.761	34.055	27.323	36.631	45.498
125	1.112	1.106	34.147	27.375	36.661	45.508
150	1.221	1.214	34.174	27.389	36.670	45.509
200	1.605	1.594	34.287	27.453	36.710	45.527
250	1.880	1.867	34.381	27.508	36.748	45.550
300	2.046	2.029	34.440	27.543	36.773	45.565
400	2.154	2.131	34.533	27.609	36.832	45.618
500	2.132	2.103	34.585	27.653	36.876	45.662
600	2.072	2.037	34.629	27.693	36.920	45.710
700	2.045	2.004	34.656	27.717	36.946	45.736
800	1.986	1.939	34.684	27.745	36.976	45.769
900	1.897	1.843	34.703	27.768	37.004	45.802
1000	1.826	1.757	34.717	27.785	37.025	45.828
1100	1.696	1.631	34.721	27.798	37.046	45.855
1200	1.619	1.547	34.730	27.812	37.064	45.877
1300	1.520	1.442	34.730	27.819	37.077	45.895
1400	1.408	1.325	34.724	27.823	37.088	45.912
1500	1.325	1.235	34.726	27.831	37.101	45.930
1600	1.249	1.152	34.726	27.836	37.110	45.945
1700	1.126	1.024	34.716	27.837	37.119	45.960
1800	1.070	.951	34.719	27.843	37.128	45.973
1900	1.007	.891	34.715	27.844	37.134	45.983
2000	.974	.851	34.717	27.849	37.141	45.992
2100	.878	.750	34.714	27.853	37.151	46.006
2200	.767	.632	34.706	27.854	37.158	46.021
2300	.697	.556	34.702	27.855	37.164	46.031
2400	.620	.472	34.698	27.857	37.172	46.043
2500	.544	.389	34.693	27.857	37.177	46.053
2600	.485	.322	34.691	27.860	37.183	46.062
2700	.448	.278	34.688	27.860	37.186	46.068
2800	.408	.231	34.686	27.861	37.189	46.074
2900	.362	.176	34.685	27.863	37.195	46.083
3000	.307	.114	34.680	27.863	37.198	46.089
3250	.203	-.010	34.675	27.865	37.208	46.106
3500	.063	-.169	34.672	27.871	37.224	46.130
3592	-.038	-.276	34.668	27.872	37.231	46.144



ISLAS ORCADAS STAT 519
 12 /10/1975 GMT=1220 51 57.25 42 20.1W PDR=2682

DEPTH	TEMP	THETA	SALT	SIG-0	SIG-2	SIG-4
1	2.668	2.668	33.829	27.002	36.207	44.977
10	2.661	2.660	33.829	27.003	36.209	44.979
20	2.610	2.609	33.824	27.003	36.211	44.984
30	2.516	2.514	33.821	27.009	36.223	45.000
50	2.469	2.466	33.827	27.017	36.234	45.013
75	1.904	1.900	33.868	27.095	36.342	45.151
100	1.284	1.279	33.910	27.173	36.455	45.295
125	.774	.768	33.988	27.268	36.578	45.445
150	.647	.641	34.060	27.334	36.649	45.522
200	1.227	1.217	34.181	27.395	36.675	45.514
250	1.476	1.464	34.260	27.441	36.706	45.531
300	1.870	1.854	34.336	27.473	36.715	45.518
400	2.212	2.189	34.457	27.543	36.765	45.549
500	2.224	2.195	34.532	27.603	36.822	45.605
600	2.213	2.167	34.587	27.649	36.870	45.652
700	2.146	2.104	34.620	27.681	36.904	45.690
800	2.068	2.020	34.648	27.710	36.937	45.727
900	2.027	1.973	34.674	27.734	36.963	45.756
1000	1.971	1.910	34.692	27.754	36.986	45.781
1100	1.918	1.851	34.705	27.768	37.005	45.802
1200	1.852	1.778	34.716	27.783	37.023	45.825
1300	1.770	1.690	34.715	27.789	37.034	45.839
1400	1.687	1.600	34.721	27.800	37.050	45.861
1500	1.594	1.501	34.725	27.811	37.067	45.882
1600	1.529	1.429	34.725	27.816	37.074	45.894
1700	1.438	1.331	34.726	27.824	37.088	45.913
1800	1.360	1.247	34.725	27.829	37.098	45.927
1900	1.304	1.184	34.725	27.834	37.107	45.938
2000	1.229	1.102	34.723	27.837	37.115	45.951
2100	1.133	1.000	34.721	27.842	37.126	45.968
2200	1.048	.908	34.716	27.844	37.133	45.980
2300	.974	.827	34.714	27.848	37.142	45.993
2400	.887	.734	34.713	27.853	37.151	46.009
2500	.680	.522	34.702	27.857	37.169	46.037
2600	.640	.474	34.697	27.856	37.170	46.041
2654	.633	.463	34.697	27.857	37.172	46.043



ISLAS ORCADAS STAT 520

12 /11/1975

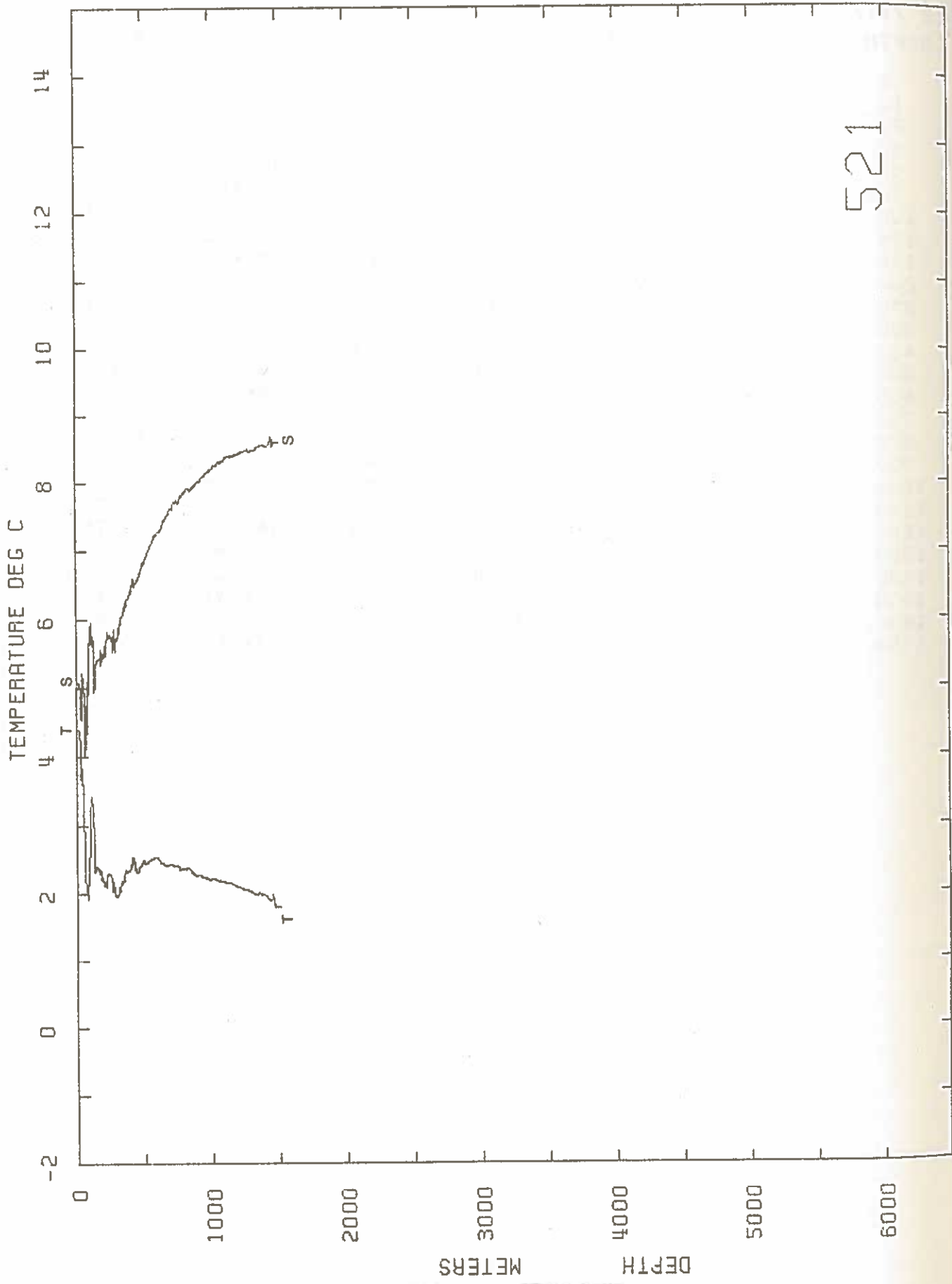
GMT=0745

50 17.45

43 25.5W

PDR=1614

DEPTH	TEMP	THETA	SALT	SIG-0	SIG-2	SIG-4
1	4.628	4.628	34.012	26.956	36.054	44.725
10	4.640	4.639	34.011	26.954	36.052	44.722
20	4.620	4.618	34.010	26.955	36.054	44.726
30	4.500	4.498	34.012	26.970	36.075	44.752
40	4.404	4.401	34.015	26.983	36.093	44.775
50	3.674	3.669	34.031	27.071	36.219	44.936
100	2.995	2.989	34.091	27.183	36.367	45.115
125	2.859	2.852	34.112	27.212	36.402	45.159
150	2.661	2.652	34.118	27.234	36.435	45.202
200	2.413	2.401	34.130	27.265	36.479	45.258
250	2.169	2.155	34.147	27.298	36.526	45.317
300	2.095	2.079	34.178	27.329	36.560	45.355
400	2.295	2.272	34.262	27.381	36.601	45.384
500	2.440	2.410	34.364	27.451	36.661	45.435
600	2.424	2.387	34.438	27.512	36.722	45.496
700	2.345	2.303	34.503	27.571	36.786	45.563
800	2.281	2.232	34.550	27.614	36.832	45.612
900	2.207	2.151	34.590	27.653	36.874	45.658
1000	2.153	2.091	34.632	27.692	36.915	45.701
1100	2.089	2.020	34.656	27.716	36.943	45.733
1200	2.056	1.980	34.679	27.738	36.967	45.758
1300	1.985	1.902	34.697	27.759	36.991	45.787
1400	1.906	1.817	34.708	27.774	37.011	45.810
1500	1.834	1.739	34.720	27.789	37.031	45.834
1600	1.742	1.639	34.726	27.801	37.049	45.856
1595	1.742	1.640	34.726	27.801	37.049	45.856



521

ISLAS ORCADAS STAT 521

12 /12/1975

GMT=1851

50 39.15

46 05.3W

PDR=1530

DEPTH	TEMP	THETA	SALT	SIG-0	SIG-2	SIG-4
1	4.392	4.392	34.008	26.979	36.089	44.771
10	4.394	4.393	34.014	26.983	36.094	44.775
20	4.344	4.343	34.012	26.987	36.100	44.784
30	3.807	3.805	33.970	27.010	36.152	44.862
50	3.478	3.475	34.028	27.088	36.246	44.972
75	2.018	2.015	33.894	27.107	36.347	45.149
100	2.978	2.972	34.158	27.238	36.421	45.170
125	2.947	2.939	34.141	27.227	36.413	45.163
150	2.397	2.388	34.076	27.223	36.440	45.220
200	2.143	2.132	34.090	27.255	36.486	45.278
250	2.270	2.255	34.152	27.294	36.516	45.302
300	1.974	1.958	34.146	27.313	36.553	45.354
400	2.412	2.389	34.280	27.386	36.599	45.375
500	2.477	2.447	34.364	27.448	36.657	45.429
600	2.533	2.496	34.448	27.511	36.716	45.484
700	2.434	2.391	34.522	27.579	36.788	45.560
800	2.385	2.335	34.571	27.623	36.834	45.609
900	2.277	2.221	34.600	27.655	36.872	45.652
1000	2.216	2.153	34.638	27.691	36.911	45.694
1100	2.166	2.096	34.667	27.719	36.942	45.727
1200	2.097	2.021	34.685	27.739	36.965	45.755
1300	2.011	1.929	34.694	27.754	36.985	45.779
1400	1.962	1.872	34.712	27.773	37.007	45.804
1500	1.798	1.703	34.722	27.793	37.037	45.842
1505	1.798	1.702	34.722	27.794	37.037	45.842

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7. Author(s) D. T. Georgi, A. F. Amos, K. E. Draganovic, M. Raymer		8. Performing Organization Rept. No.	
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