

I.O.S.

CTD DATA
FROM
THE MADEIRA AND IBERIAN ABYSSAL PLAINS
CHARLES DARWIN CRUISES 3/85 AND 9A/85

BY
P.M. SAUNDERS

REPORT NO. 227
1986

OCEAN DISPOSAL OF HIGH LEVEL RADIOACTIVE WASTE
A RESEARCH REPORT PREPARED FOR THE DEPARTMENT
OF THE ENVIRONMENT

NATURAL ENVIRONMENT
INSTITUTE OF
OCEANOGRAPHIC
SCIENCES
RESEARCH
COUNCIL

INSTITUTE OF OCEANOGRAPHIC SCIENCES

Wormley, Godalming, Surrey, GU8 5UB.

(042 - 879 - 4141)

(Director: Dr A.S. Laughton FRS)

Bidston Observatory,

Birkenhead, Merseyside, L43 7RA.

(051 - 653 - 8633)

When citing this document in a bibliography the reference should be given as follows:-

SAUNDERS, P.M. 1986 CTD data from the Madeira and Iberian Abyssal Plains: *Charles Darwin Cruises* 3/85 and 9A/85.
Institute of Oceanographic Sciences, Report,
No. 227, 55pp.

INSTITUTE OF OCEANOGRAPHIC SCIENCES

WORMLEY

CTD data
from
the Madeira and Iberian Abyssal Plains
CHARLES DARWIN Cruises 3/85 and 9A/85

by

P.M. Saunders

I.O.S. Report No. 227

1986

RADIOACTIVE WASTE MANAGEMENT

Research Programme 1985/86

DoE Report No. DoE/RW/86.

Contract Title: Studies of large and local scale advection and dispersion relevant to the Great Meteor East Location.

DoE Reference: PECD7/9/216

Report Title: CTD data from the Madeira and Iberian Abyssal Plains. C. DARWIN Cruise 3/85 and 9A/85.

Author: P.M. SAUNDERS

Date of submission to DoE: 1 March 1986

Period covered by report:

Abstract (100-200 words as desired)

This report presents lists and graphs of CTD data taken aboard RRS Charles Darwin on cruises 3 (May 1985) and 9A (November 1985). The majority of the lowerings were made in support of two experiments; the deployment of deep SOFAR floats and of deep moored current meters, the latter near 31°30'N 25°W (GME site). All CTD data is compared with reversing thermometer observations, and with determinations of salinity and dissolved oxygen derived from samples.

Keywords: 126,299 - Ocean circulation/dispersal, DoE sponsored research.

This work has been commissioned by the Department of the Environment as part of its radioactive waste management research programme. The results will be used in the formulation of Government policy, but at this stage they do not necessarily represent Government policy.

TABLE OF CONTENTS

	<u>Page</u>
Abstract	3
The collection of CTD data	5
Reconciliation of CTD data with multisampler data	5
Processing of CTD data	7
Acknowledgements	8
References	8
Tables 1-3	9
Appendix - stages of data processing	12
Figure 1 Location of CTD stations	18
15 figures T, S, DO versus p	19
7 figures Near Bottom T, S, potran versus p	34
15 Station data lists	41

THE COLLECTION OF CTD DATA

The data described in this report was gathered aboard Cruises 3 and 9A of the RRS Charles Darwin in 1985. Cruise 3 sailed from Funchal, Madeira and docked in Falmouth, U.K. (26 April - 14 May) and Cruise 9A sailed from Funchal and docked in Lisbon, Portugal (15 - 28 November): Dr. W.J. Gould was the principal scientist for both cruises. The number of CTD stations on each cruise was quite limited so the data from both are combined in this report.

CTD stations were made with a NBIS instrument equipped with a Beckman dissolved oxygen sensor, 1 m path transmissometer from Sea Tech, Inc. and General Oceanics Multisampler, the latter alongside the CTD. The equipment is shown in figure 1 of Saunders, 1985a. Lowerings were made from the mid-ships winch with maximum ascent and descent rates of 1 m/s. A general description of our procedures will be found in earlier data reports (e.g. Saunders, 1985b) and in a review article (Saunders, 1985a).

The stations were made in both the Canary and Iberian basins (see figure 1). Those in the Canary Basin (Cruise 9, stns. 1-4) were made near the Great Meteor East Study site (GME) in conjunction with long-term current meter measurements (Saunders, 1986). Those in the Iberian basin (Cruise 3, stns. 2-7 and Cruise 9 stns. 5-8) were made in support of a 2000 m SOFAR FLOAT experiment which is being carried out jointly by IOS and MAFF (Lowestoft) personnel. Table 1 gives details of the measurements and their locations. All of this research programme is part of an evaluation of the potential of the deep ocean (sediments) as a repository for heat generating radioactive waste.

RECONCILIATION OF CTD DATA WITH MULTISAMPLER DATA

(a) Pressure

The calibration equation used on both cruises was:-

$$p = 0.1 \text{ praw} - 11.0$$

Differences between the pressure measured by the CTD and by pairs of reversing thermometers are shown in Table 2. The

results are similar to previous experience (Saunders 1985a) and confirm the stability of the CTD sensor.

(b) Temperature

The calibration equation used on both cruises was:-

$$T = .00049953 \text{ Traw} + .026$$

It was based on laboratory calibrations made in January and June 1985 which confirmed the stability of the platinum resistance sensor since its introduction into use. A comparison is shown in Table 2 between CTD temperatures and reversing thermometers, separating the deep and shallow measurements.

(c) Salinity

The sample measurements made on this cruise, with a Guildline Autosol, were generally within .001 of the canonical θ -s relation, $S = 34.698 + 0.098\theta$. (θ is the potential temperature). Standard sea-water batch numbers P96 and P99 were used for standardisation of the bench salinometer on Cruises 3 and 9A respectively. The cell factor required to bring the CTD salinities into agreement with the above equation in the interval $2.1 < \theta < 2.3$ for each station is listed in Table 1. On Cruise 3 had we chosen a constant cell factor of 0.9996 the range of salinities at fixed θ for stations 3 and 7 would be .025, an order of magnitude larger than the variation shown by the sample salinities. This instability in the conductivity cell manifest itself on Cruise 9 when on stations 2-4 excessive noise was observed (principally on the up cast). On station 5 the conductivity sensor was first removed and then replaced (because of an accident to the spare). Reinstalled, its cell constant was markedly different! Possibly because of this malfunctioning cell the shallow salinity comparisons between CTD archived lists and sample values show poorer agreement than we have come to expect (see Table 2).

(d) Oxygen

Oxygen was calculated by lagging temperature (not current) as described in an earlier report (Saunders, 1980) on the ship-borne computer. Ashore (piecewise) corrections were made to each station to bring the CTD data to agree with sample values, see Table 2. Because of low quality the oxygen data was discarded from Cruise 3.

(e) Transmittance

Light transmittance was dealt with in the manner described in Saunders and Manning, 1984 for Cruise 3. No observations were made on Cruise 9A.

PROCESSING OF CTD DATA

The Plessey 68000 computer system on board the RRS Charles Darwin archives the data on 9 track computer tape. The data is already edited, averaged to 1 second interval and provisionally calibrated (though raw averaged data can be archived). Numerous derived quantities are also calculated. We elected to utilise the calibrated data p, T, S, DO and Tran merely commenting here that it is crucial to make note of the calibration equations and constants which are not stored with the archived data. (One advantage of a linear calibration treatment is the ease with which raw data is recovered!).

Ashore the data is transferred into the GEXEC file handling package on the Honeywell 66/DPS-300 at IOS Bidston. The computation path (as applied to Cruise 9A data) is described in general terms in Table 3 and in more detail in the appendix. The real time editing techniques (along with the quality of the data) yielded almost error-free observations on Cruise 9A and no editing procedure is explicit in the data processing path. For Cruise 3 editing was required ashore but the system was then (and to a lesser extent still is) under course of development.

Standard plots and lists occupy the main body of the report. Derived quantities, both aboard ship and ashore, have been computed from algorithms published in UNESCO Technical Paper on Marine Science No. 44 (Fofonoff and Millard, 1983). Because of our interest in the deepest parts of the water column we have included plots of variables below 3500 db at an expanded scale. See Saunders (1985b) for a discussion of their significance.

ACKNOWLEDGEMENTS

I am grateful to J. Moorey (Salinity, thermometry, dissolved oxygen), J. Smithers (CTD) and RVS personnel from Barry (CTD logging) who were involved in work at sea. Dr. W.J. Gould was the chief scientist for both cruises and his contribution is also gratefully acknowledged.

REFERENCES

- Fofonoff, N.P. and R.C. Millard, Jr. 1983 Algorithms for computation of undamental properties of seawater. UNESCO Technical Papers in Marine Science 44.
- Saunders, P.M. 1980 CTD data from the western Indian Ocean 10 May - 6 July 1979. Discovery Cruise 102, IOS Data Report No. 23.
- Saunders, P.M. and A. Manning 1984 CTD data from the northeast Atlantic Ocean 22-33°N, 19-24°W July 1983 during RRS Discovery cruises 138, 139. IOS Report No. 188, 114pp.
- Saunders, P.M. 1985a Collection, calibration and processing of CTD data at IOS. C.M.1985/C.5 Hydrography Committee, ICES, 13pp.
- Saunders, P.M. 1985b CTD data from the Maderia abyssal plain. C. Darwin Cruise 1/85. IOS Report No. 217, 78pp.
- Saunders, P.M. 1986 Moored current meter data from the Madeira abyssal plain (GME) 1st deployment (1984). IOS Report No. 221, 47pp.

TABLE 1

CTD Station List

Cruise 3	Date	Down	Lat(N)	Lon(W)	Water depth,m	Salra
Station						
2	30.IV	1129	37 17	18 39	3750	0.999 707
3	2.V	2139	41 29	13 29	5350	0.999 889
4	4	2148	42 40	20 00	5327	0.999 589
5	5	0525	43 07	19 49	5964	0.999 662
6	6	1439	44 51	15 00	4219	0.999 576
7	7	1040	47 44	15 22	4844	0.999 189
16	10.V	0918	50 34	14 56	3691	0.999 597
					Average (0.999 600)	
Cruise 9A						
1	17.XI	1348	31 40	22 33	5220	0.999 984
2	18	2345	31 30	25 10	5035	1.000 943
3	19	0630	31 15	25 26	5450	1.000 530
4	20	0441	31 34	24 43	5444	0.999 550
5	22	0008	36 44	19 15	5213	1.000 034
6	26	0717	40 26	13 48	5355	1.000 768
7	26	1946	39 31	14 02	5366	1.000 579
8	27.XI	0304	38 58	14 01	4706	1.000 510

TABLE 2

Fit of CTD data to Rosette Sample Values

Variable	Range	Difference between CTD and Rosette Measurements		
		mean	r.m.s.	number
Pressure, db	0-2000db	-1	2	10
	2000-6000db	-2.5	6	19
Temperature, °C	5-23°C	+0.002	.011	14
	2-5°C	-0.003	.003	24
Salinity, PSU	0-2000db	-0.011	.010	22
	2000-6000db	-0.001	.003	35
Oxygen, ml/l	0-2000db	-0.02	.07	17
	2000-6000db	+0.03	.06	20

Data from both cruises combined in the above table.
The depth of the 5°C isotherm is approximately 1800db.

TABLE 3

Processing Path (See Appendix for further details)

<u>Stage</u>	
1	Transfer CTD 1 second data from ship to shore computer.
2	Copy down cast to named file.
3	Sort data on pressure and average by 2db intervals.
4	Calculate salinity correction ratio.
5	Correct both salinity and oxygen.
6	Fill data gaps at start of lowering (and elsewhere).
7	Correct variable names and summary file entry.
8	Archive 2db data to tape in GF3 format.
9	Plot T, S, DO versus P (0-2000db).
10	Plot θ , S, Potran versus P (>3500db).
11	Construct a station list.

APPENDIX - STAGES OF DATA PROCESSING

1. TRANSFER CTD DATA FROM SHIP TO SHORE

EXEC PEBCIN

0

(A20,7(A17,A224))

NAMES, PRES, TEMP, SALIN, TRAN

FILE, 9, DAR316, 7, 480

TIME, 850510, 091800, 1.0

POST, 50, 33.6, -14, 55.5, 3691, ,

PLATFORM, NEWDEEP, DARWIN, 3/ 85, P.M. SAUNDERS

REMA, PORCUPINE SLOPE SECTION (DEEPEST)

HEAD, 3

SUBS

\$\$SELECT(PMS/ALTLEVC:S) OR (PMS/CTDLEVC:S)

FIND WTape92780

MAKE WCTDWK03

EXEC PSKTCH

0

CYCS, ,

GROUP, 100

VARs, -

FIND WCTDWK03

2. COPY DOWN CAST TO NAMED FILE

EXEC PCOPYA

1

VARs, -

COPY, 39, 3789

FIND WCTDWK03

MAKE DAR316

*

3.SORT ON PRESSURE AND AVERAGE BY 2 DECIB 'R INTERVALS

```
EXEC PGFILE
0
FIND DAR316
MAKE TEMPFILE,,,4,9250
EXEC GSORT3
00000000000000002000PRES
FIND TEMPFILE
MAKE WORKFILE,,,4,9250
EXEC GPFILE
0
FIND WORKFILE
MAKE PHYSFILE,,,4,9250
EXEC PAVRGE
0
SCAN,1,0.0,2.0
VARS,-
FIND PHYSFILE
MAKE DAR316
EXEC PLSTDC
00001
EVERY,10
CYCS,,
VARS,-
FIND DAR316
```

4.CALCULATE SALINITY CORRECTION RATIO

```
EXEC PEOS83
0
CYCS,,
COPY
VARS,PRES,TEMP,SALIN,OXYGEN
PTMP,0.0
VARS,P,1,T,2,S,3
FIND DAR9A02
MAKE PHYSFILE,,,5,9500
EXEC PUSRIO
0
VARS,PRES,SALIN,POTEMP
CYCS,,
OVARS,PRES,TEMP,SALIN,OXYGEN,POTEMP
SUBS
$$ SELECT(PMS/SALRA:S)
FIND PHYSFILE
MAKE PHYSFILE
*
```

5. CORRECT BOTH SALINITY AND OXYGEN

```
EXEC PEOS83
0
CYCS,,
COPY
VARS,PRES,TEMP,SALIN,OXYGEN
PTMP,0.0
VARS,P,1,T,2,S,3
FIND DAR9A07
MAKE PHYSFILE,,5,9500
EXEC PUSRIO
0
VARS,PRES,TEMP,SALIN,OXYGEN,POTEMP
CYCS,,
OVARS,PRES,TEMP

NVAR,SALIN,PSU,-999.
NVAR,OXYGEN,ML/L,-999.
OVARS,POTEMP
SUBS
$$ SELECT(PMS/CORRECT:S)
FIND PHYSFILE
MAKE PHYSFILE
EXEC PCOPYA
1
VARS,-
COPY,,
FIND PHYSFILE
MAKE DAR9A07
```

6. FILL DATA GAPS AT START OF LOWERING (AND ELSEWHERE)

```
EXEC PCOPYA
0
VARS,-
INSERT,2
COPY,1,
FIND DAR9A08
MAKE PHYSFILE,,5,2800
EXEC PEDITA
0000001
NUCYC,1,1.0,17.917,36.065,5.302,17.916
NUCYC,2,3.0,17.917,36.065,5.302,17.916
FIND PHYSFILE
MAKE DAR9A08
EXEC PINTRP
0
LINEAR,-
FIND DAR9A08
MAKE DAR9A08
EXEC PLSTDC
00001
CYCS,1,10
VARS,-
FIND DAR9A08
*
```


7. CORRECT VARIABLE NAMES AND SUMMARY FILE ENTRY

```
EXEC PCALIB
0
COPY, PRES, PRES, DBAR, -999.
COPY, TEMP, TEMP, DEGC, -999.
LINEAR, SALIN, SALIN, 0.999189, 0., PSU, -999.
COPY, POTEMP, POTEMP, DEGC, -9.99
COPY, POTRAN, POTRAN
FIND DAR307
MAKE PHYSFILE, , , 5, 3300
EXEC PCOPYA
1
VARS, -
COPY, ,
FIND PHYSFILE
MAKE DAR307
EXEC PDDSUM
000001
SUMM, COMMENT2, SHIP
SUMM, SHIPCRUS, RRS C. DARWIN
SUMM, COMMENT3, CR1985/3
SUMM, LONGDEGS, CTD
SUMM, CALCONS1, 4844
FIND DAR307
MAKE DAR307
```

8. ARCHIVE 2 DB CTD DATA IN GF3 FORMAT

```
MESS PMS USING IOS 33 AND TAPE 90111
EXEC PGFARC
0
SUBS
$$ SELECT(SPU/GFARCH/PGFARC:S)
$$ SELECT(SPU/GFARCH/BLKDAT:S)
FIND DAR9A05
FIND DAR9A06
FIND DAR9A07
FIND DAR9A08
MAKE DAR3/9
*
```

9. PLOT T,S VERSUS P (0-2000DB)

```
DARWIN 3/85 STN 03 41 29N 13 29W
EXEC PCALIB,,WB
0
COPY,PRES,PRES
COPY,TEMP,TEMP
RANGE,SALIN,SALIN,34.9,36.2
FIND DAR303
MAKE PHYSFILE,,,3,3300
EXEC PLOTXY,WGST,WB
1
CYCS,1,1000
PLOT,250,305,130,200,,,2
XAXIS,2,20,10,2,2,2
YAXIS,2,20,10,2,2,2
YVAR,PRES,0.,2000.,4,200.
XVAR,TEMP,0.,32.5,1,5.0,1
XVAR,SALIN,34.9,36.2,1,.2
SUBS
$$ SELECT (PMS/GSPOOL:S)
FIND PHYSFILE
```

10. PLOT THETA,S,POTRAN VERSUS P (>3500DB)

```
EXEC PEOS83,,WB
1
CYCS,1750,
COPY
VARS,PRES,SALIN,POTRAN
PTMP,0.0
VARS,P,1,T,2,S,3
FIND DAR302
MAKE PHYSFILE,,,4,1500
EXEC PLOTXY,WGST,WB
1
CYCS,,
PLOT,250,350,150,250
XAXIS,2,30,15,3,3,3
YAXIS,2,50,10,3,3,3
YVAR,PRES,3500.,6000.,4,500.
XVAR,POTEMP,1.9,2.4,0,0.1
XVAR,SALIN,34.880,34.930,0,0.01
XVAR,POTRAN,68.0,70.5,0,0.5
SUBS
$$ SELECT (PMS/GSPOOL:S)
FIND PHYSFILE
*
```

11. STATION LIST

```
EXEC PEOS83
0
CYCS,,
COPY
VARS,PRES,TEMP,SALIN,POTRAN,POTEMP
SIGP,0.
VARS,P,1,T,2,S,3
SIGP,4000.
VARS,P,1,T,2,S,3
DYNHT,0.0
VARS,P,1,T,2,S,3
SNDV
VARS,P,1,T,2,S,3
DEPTH
VARS,P,1
FIND DAR303
MAKE PHYSFILE,,11,3300
EXEC PFETCH
000001
CYCS,,
VARS,-
SEARCH,PRES
LEVS,10,20,30,50,75,100,125,150,200,250,300,400,500,600,700,800,900
LEVS,1000,1200,1400,1600,1800,2000,2200,2400,2600,2800,3000
LEVS,3200,3400,3600,3800,4000,4200,4400,4500,4600,4700,4800,4900
LEVS,5000,5100,5200,5300,5400,5500,5600,5700,5800,6000
FIND PHYSFILE
MAKE WCTDWK02
EXEC PEOS83
0
CYCS,,
COPY
VARS,-
SVAN
VARS,P,1,T,2,S,3
BVFR
VARS,P,1,T,2,S,3
FIND WCTDWK02
MAKE DAR303SL
EXEC PLSTDC
00000000000101
(1H1//33X,'C.DARWIN 3/85 STATION 003'//
' P-DB T-DEGC SAL-PSU POTRAN DO-ML/L POTEMP SIG0 SIG4000'
' DYNHT-M SNDV-M/S DEPTH-M SVANOM BVFR-CY/HR'///)
(1X,F8.0,2F9.3,F8.3,8X,1X,3F9.4,F9.3,F9.1,F7.0,E12.4,F9.3)

CYCS,,
VARS,1,-,12
FIND DAR303SL
*
```

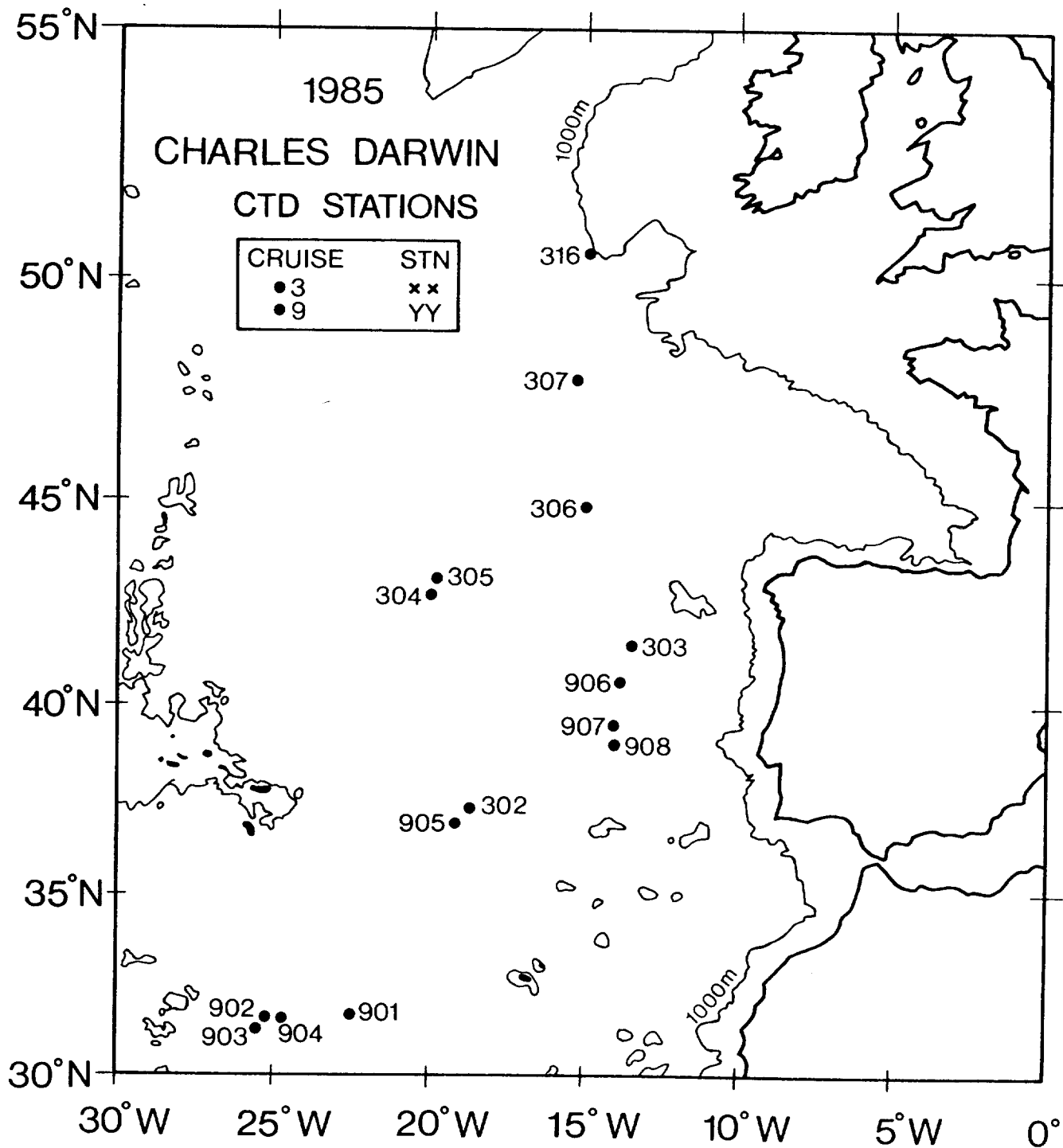
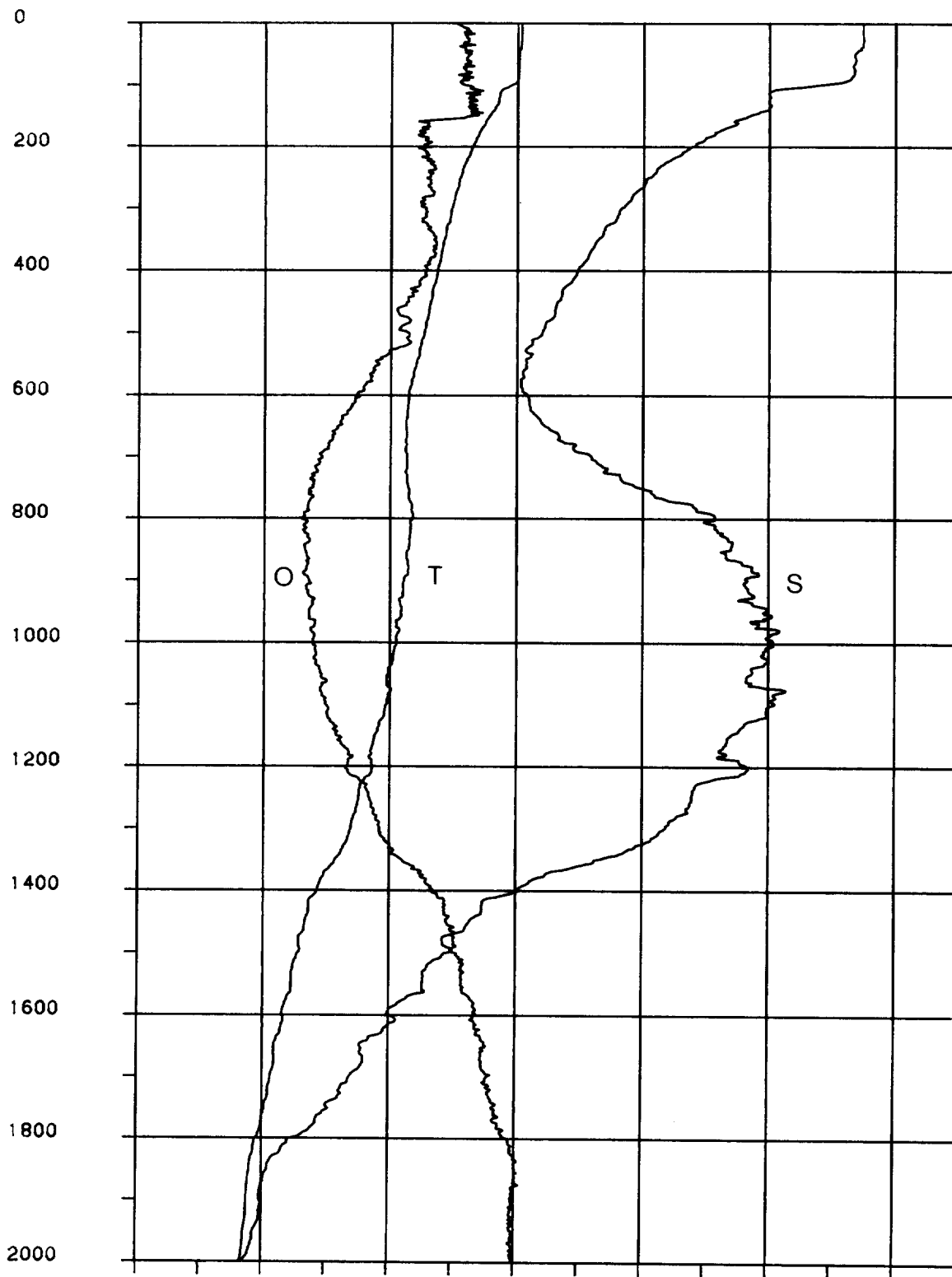
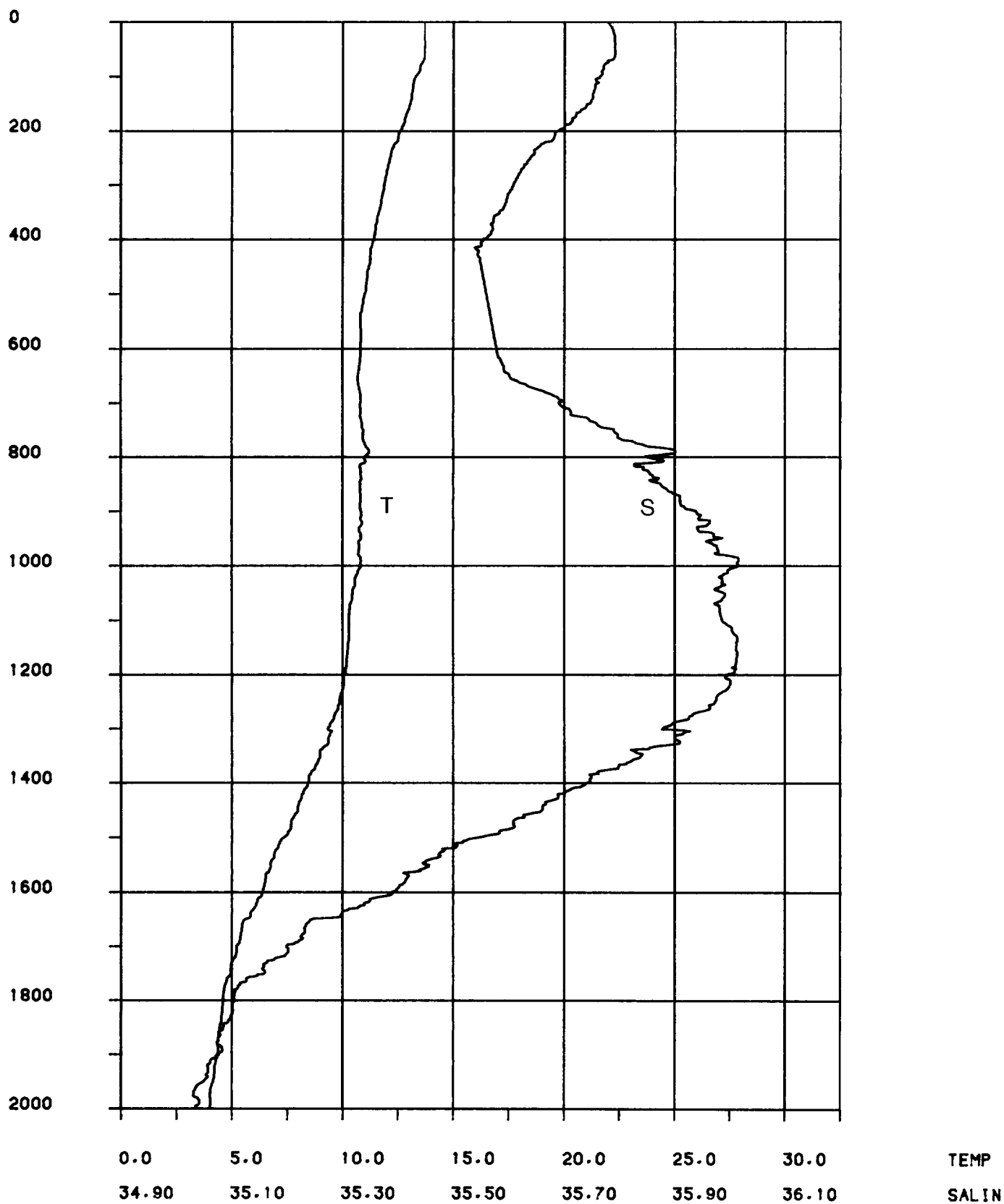


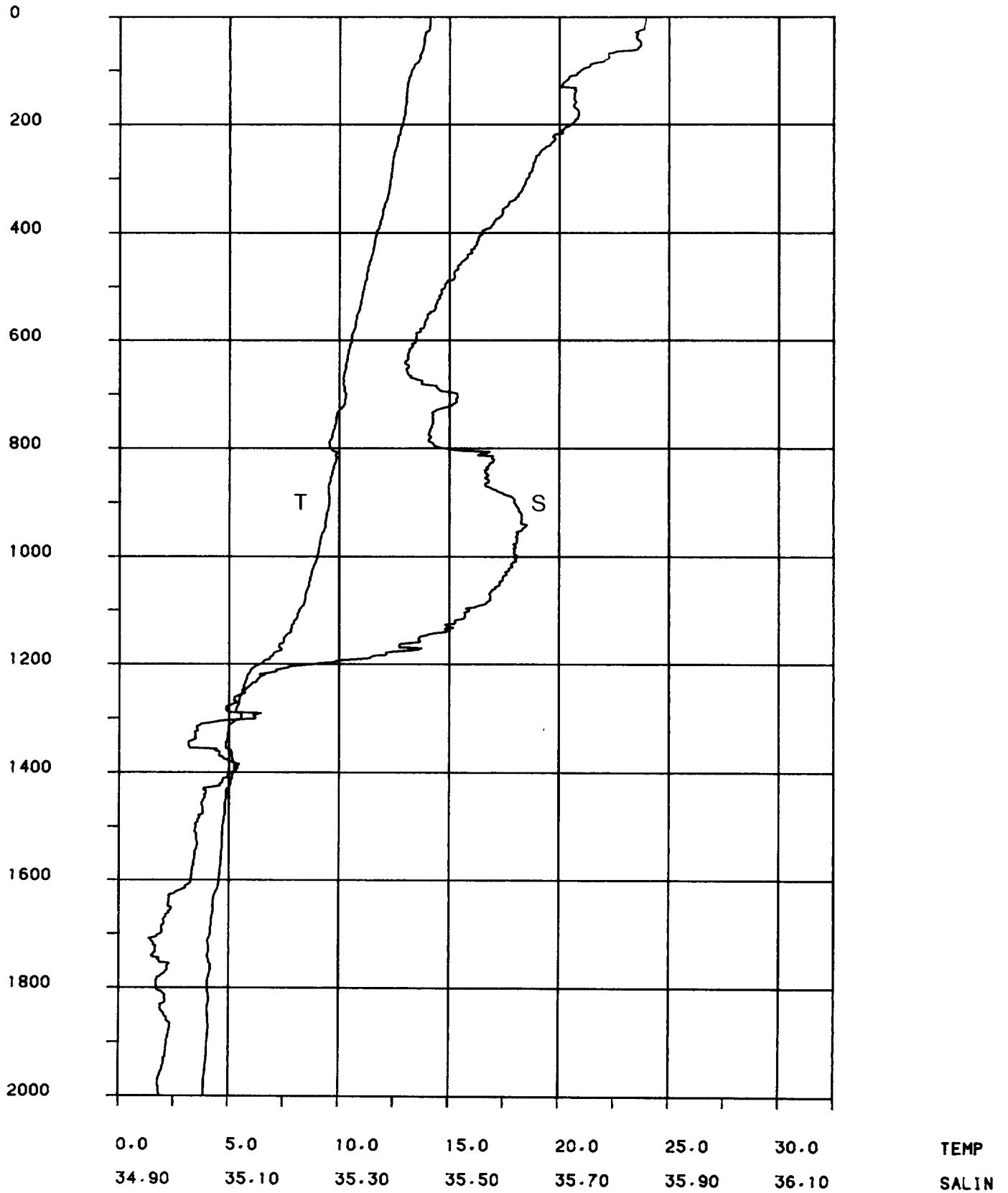
Figure 1. Location of CTD stations for CHARLES DARWIN cruises 3/85 and 9A/85.

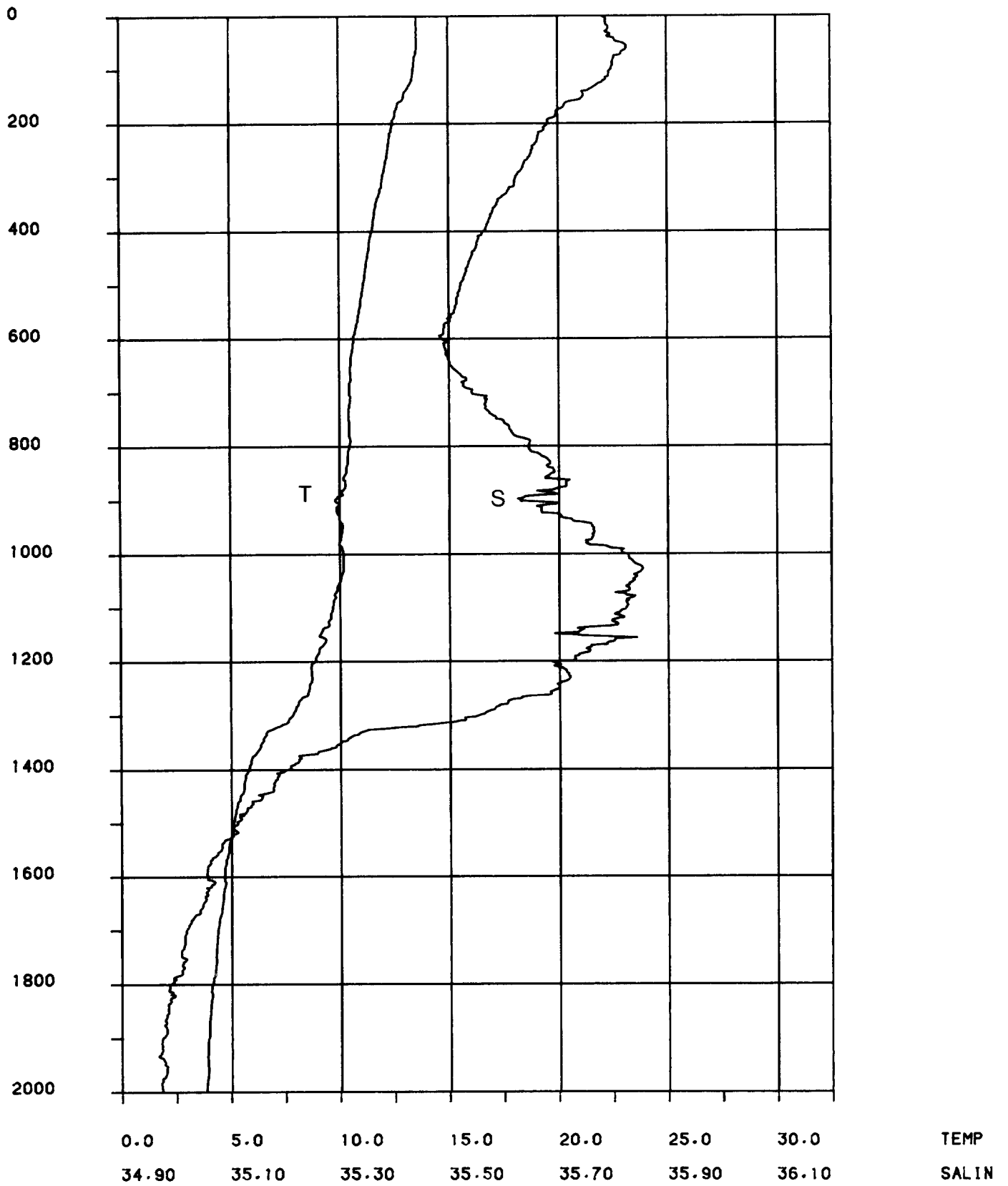
PRES

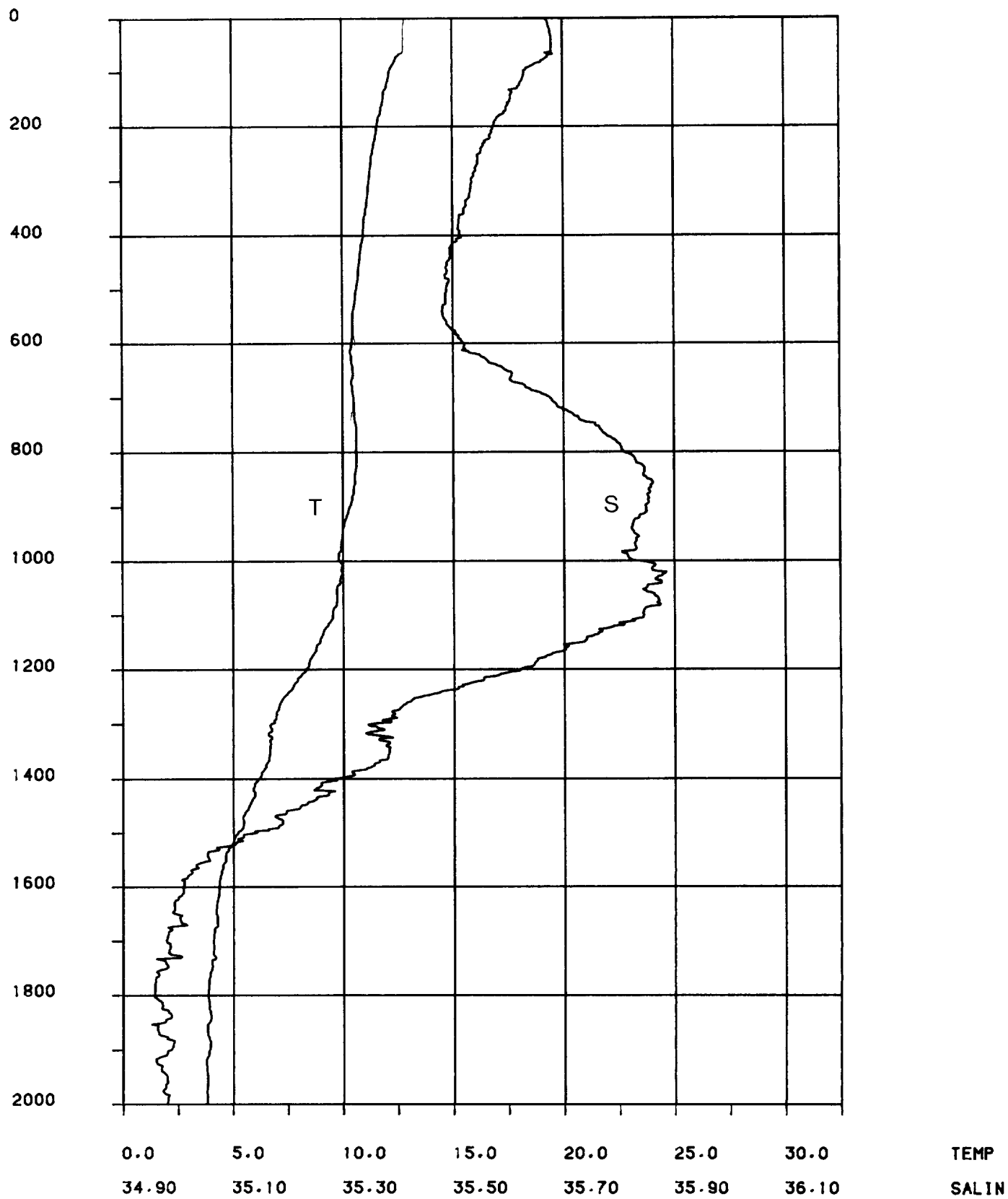


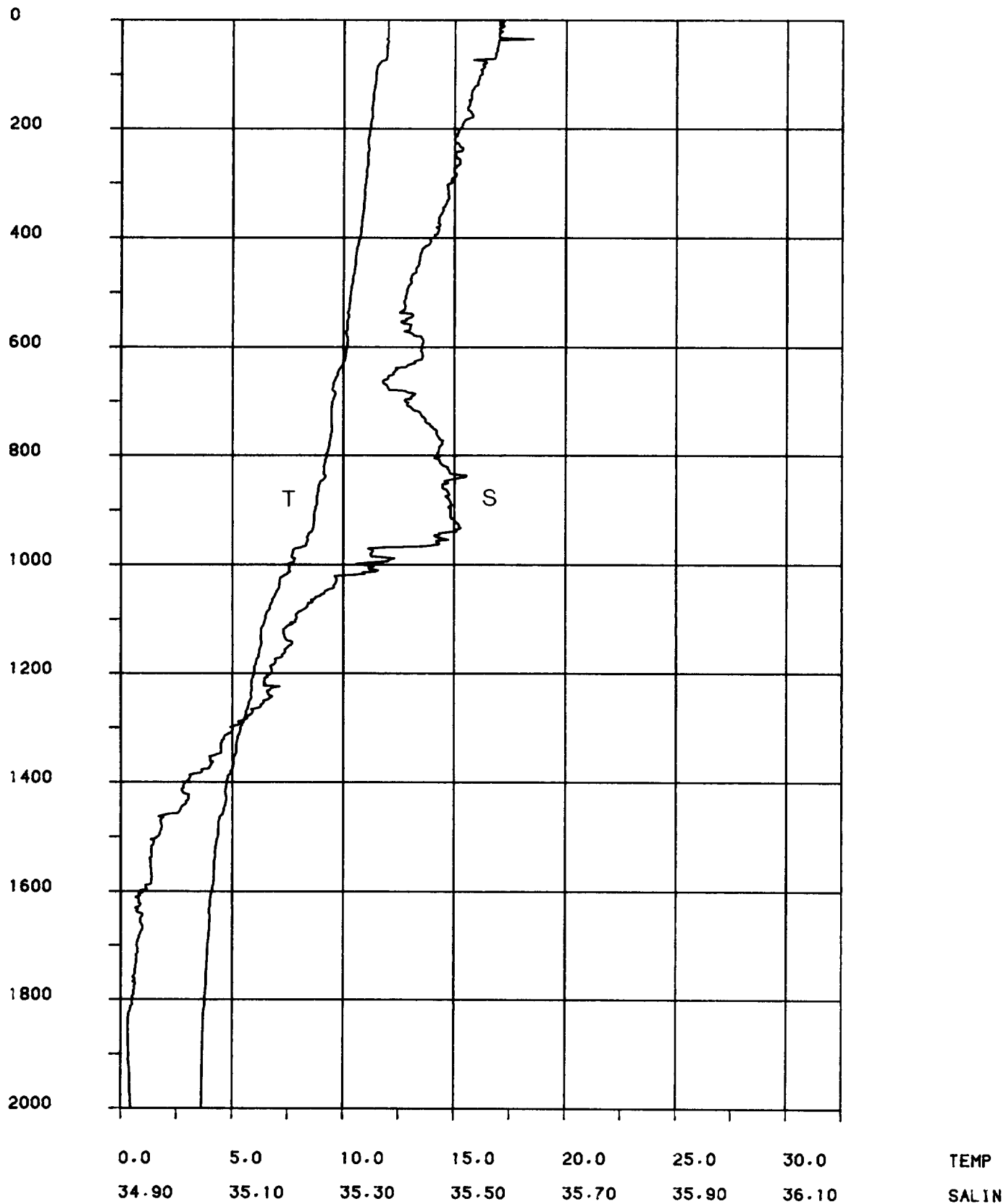
0.0	5.0	10.0	15.0	20.0	25.0	30.0	TEMP
34.90	35.10	35.30	35.50	35.70	35.90	36.10	SAL78
3.0	4.0	5.0	6.0	7.0	8.0	9.0	OXYGEN

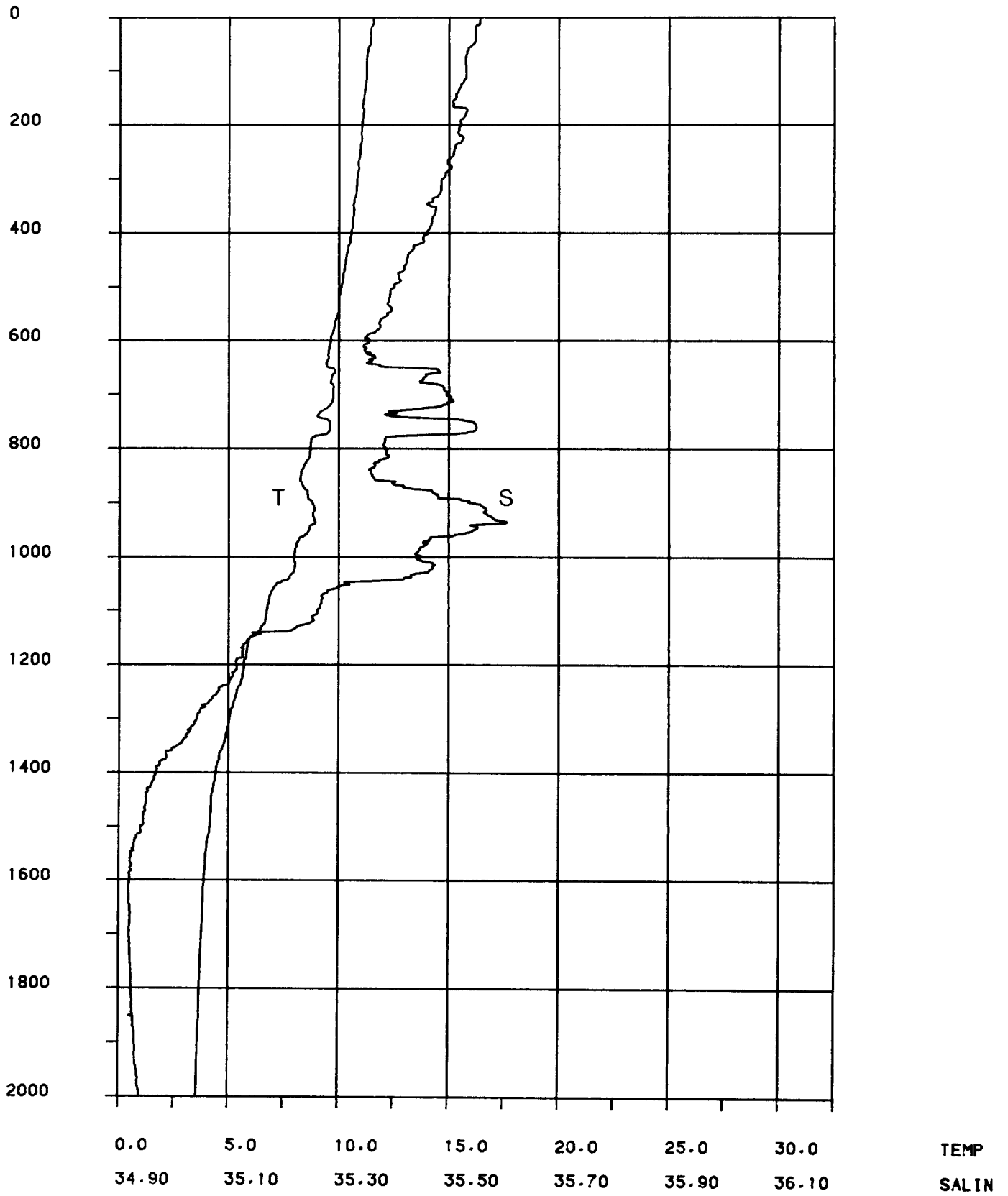


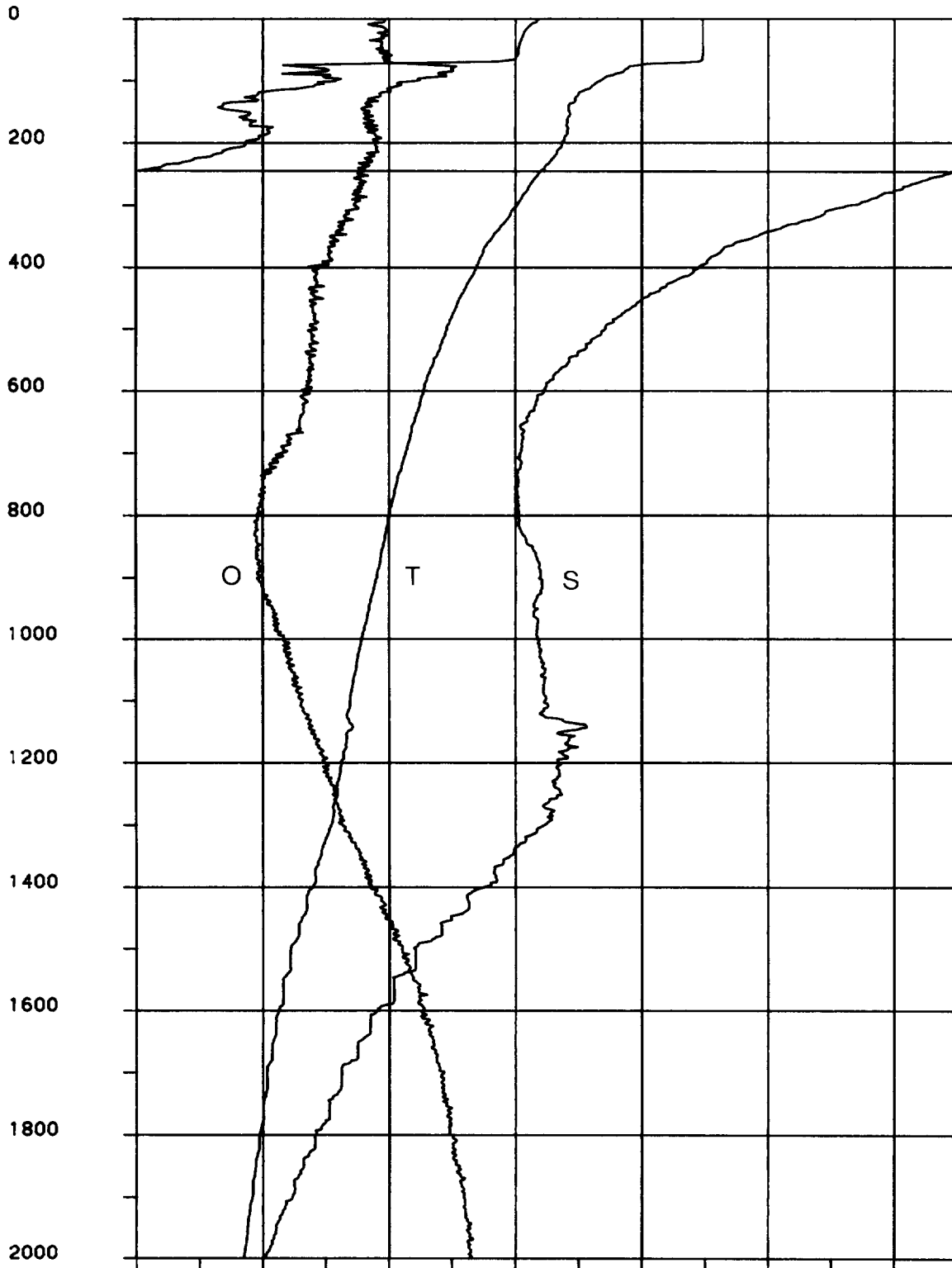




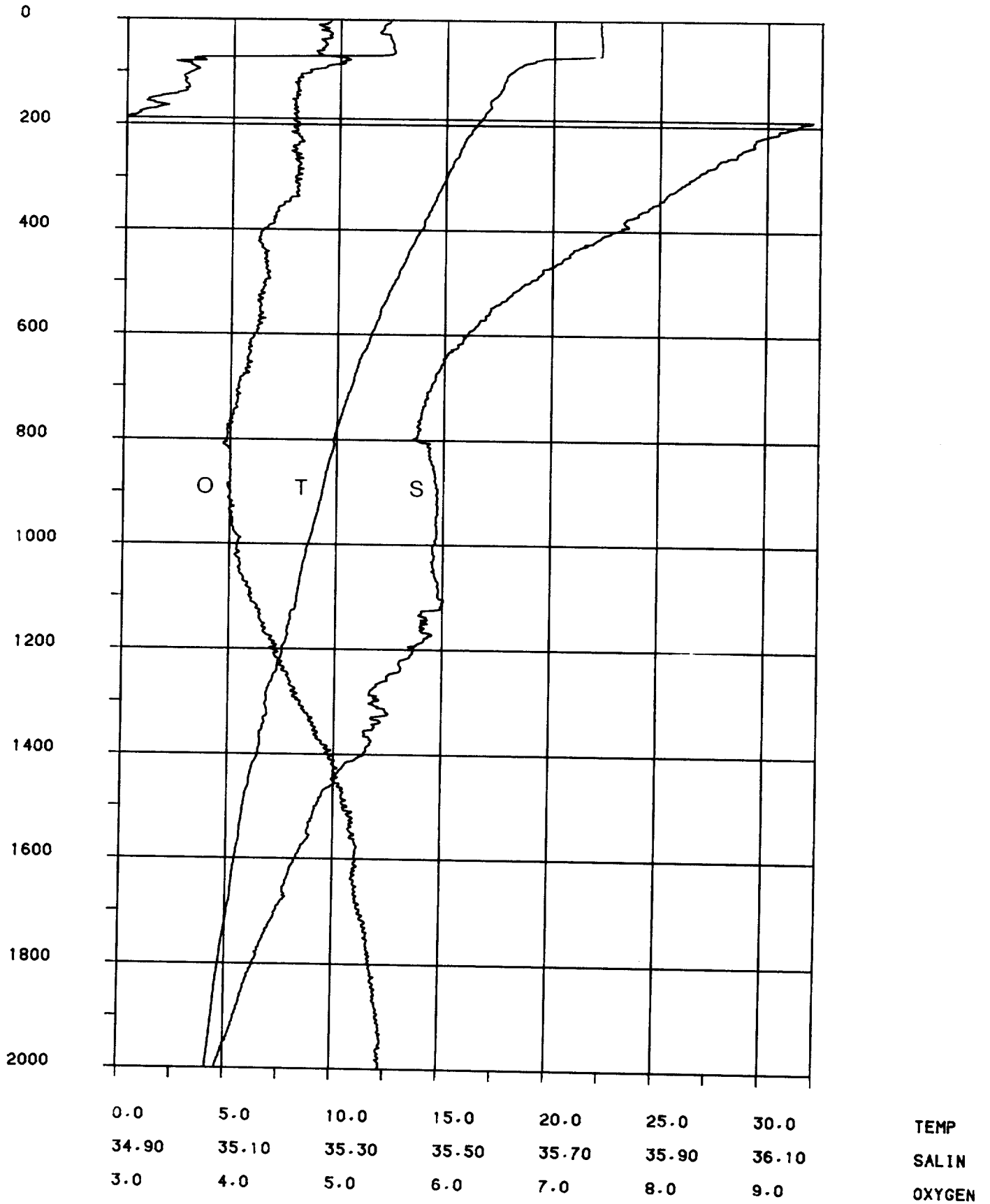


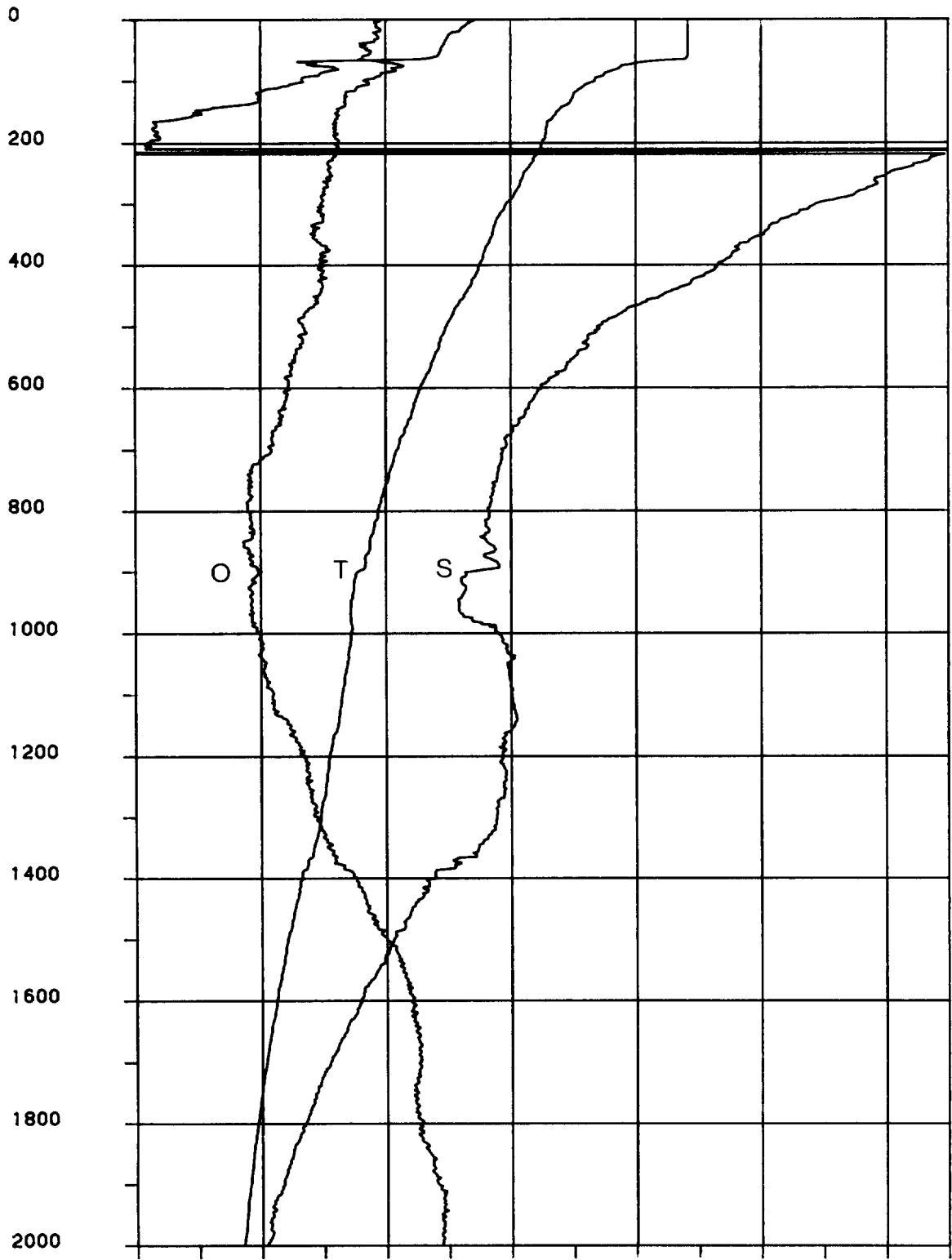




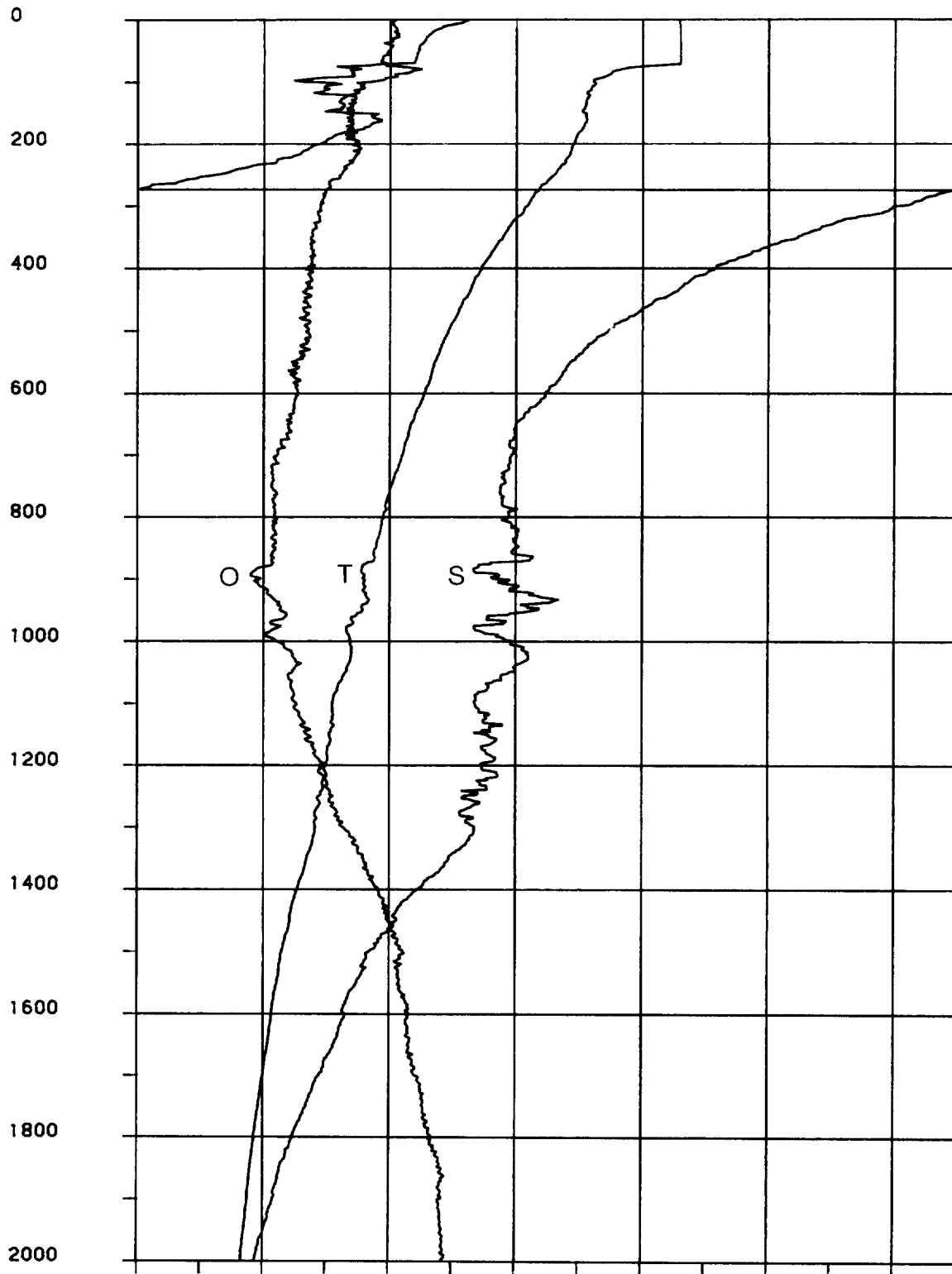


0.0	5.0	10.0	15.0	20.0	25.0	30.0	TEMP
34.90	35.10	35.30	35.50	35.70	35.90	36.10	SALIN
3.0	4.0	5.0	6.0	7.0	8.0	9.0	OXYGEN

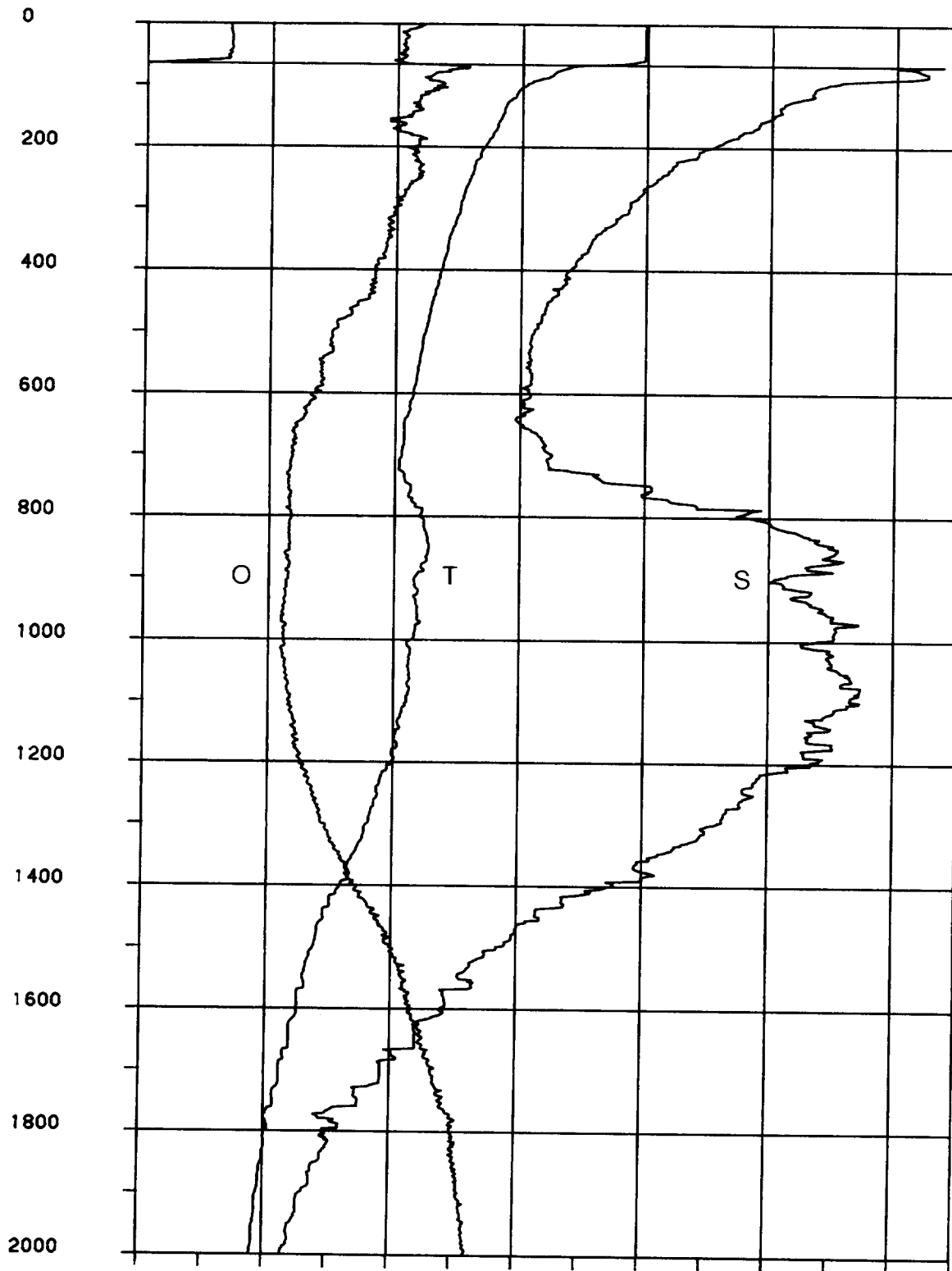




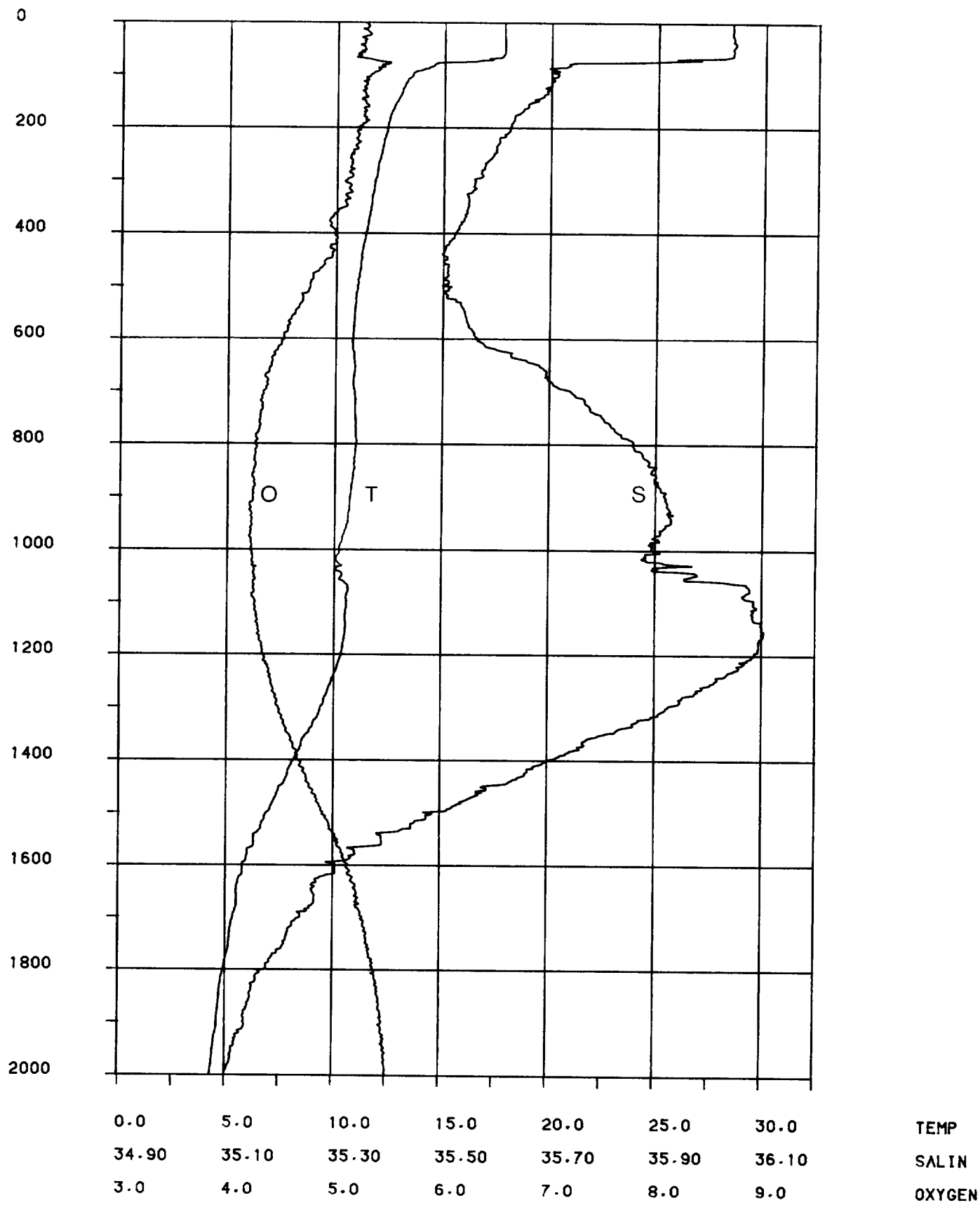
0.0	5.0	10.0	15.0	20.0	25.0	30.0	
34.90	35.10	35.30	35.50	35.70	35.90	36.10	TEMP
3.0	4.0	5.0	6.0	7.0	8.0	9.0	SALIN
							OXYGEN

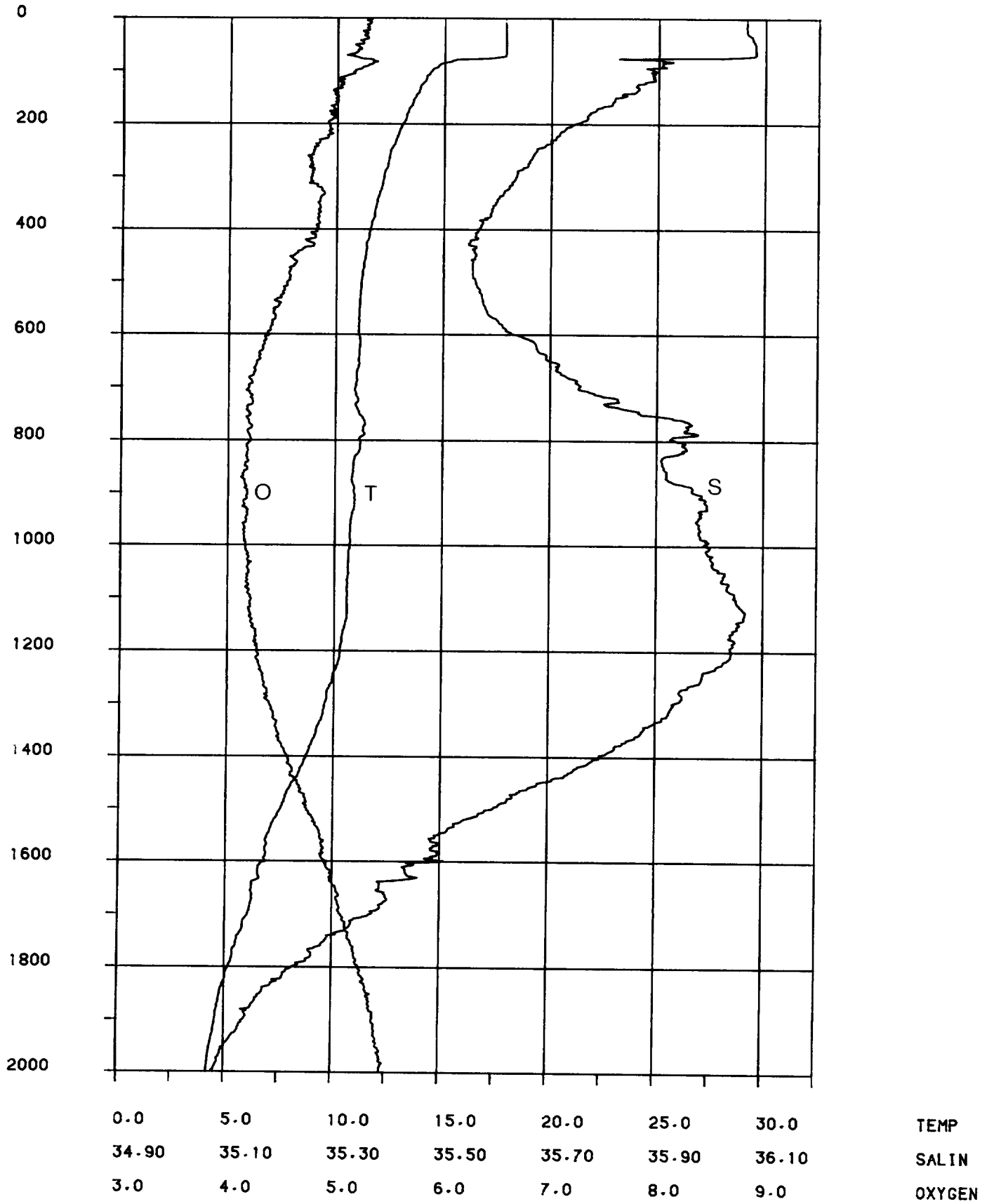


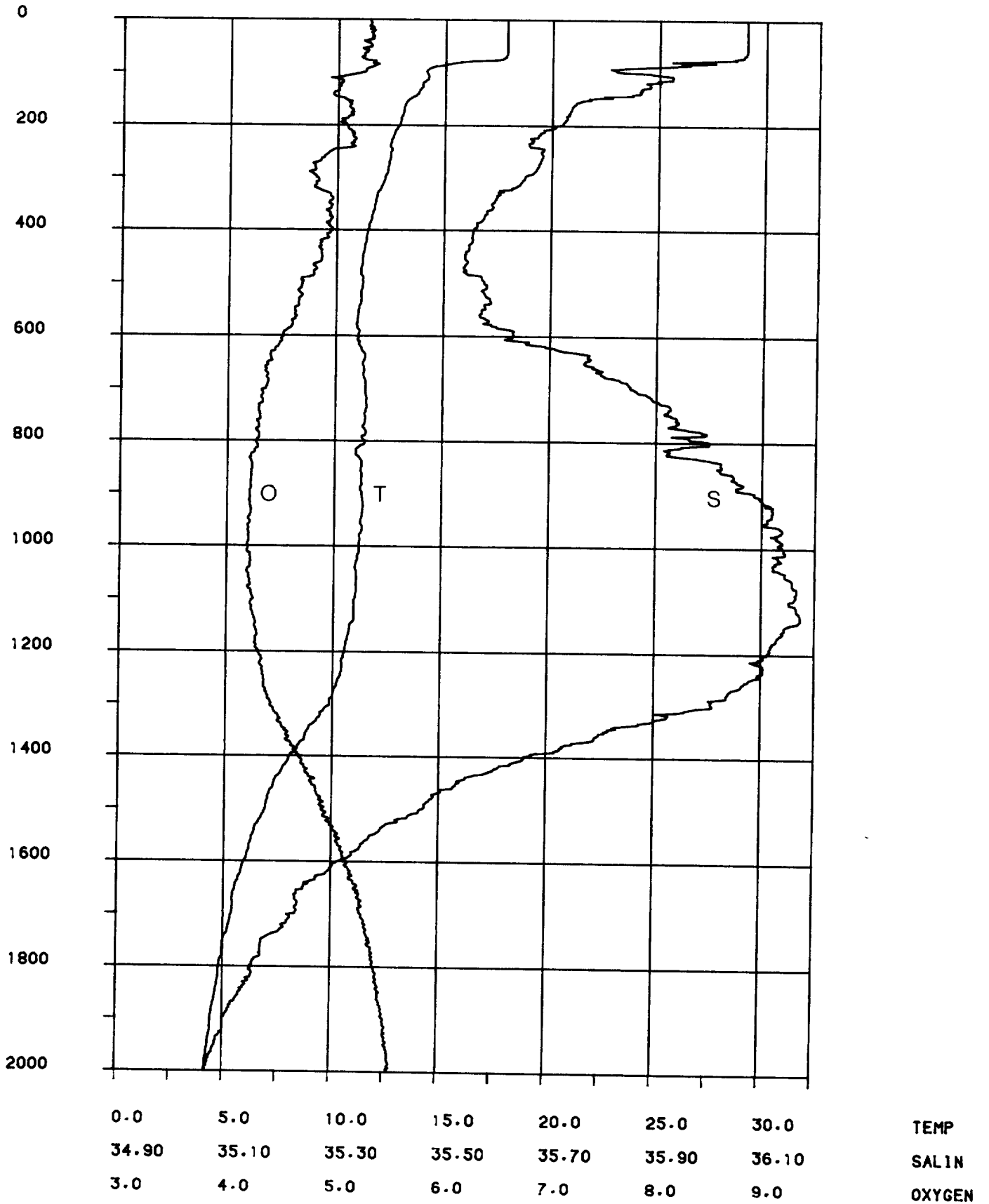
0.0	5.0	10.0	15.0	20.0	25.0	30.0	TEMP
34.90	35.10	35.30	35.50	35.70	35.90	36.10	SALIN
3.0	4.0	5.0	6.0	7.0	8.0	9.0	OXYGEN

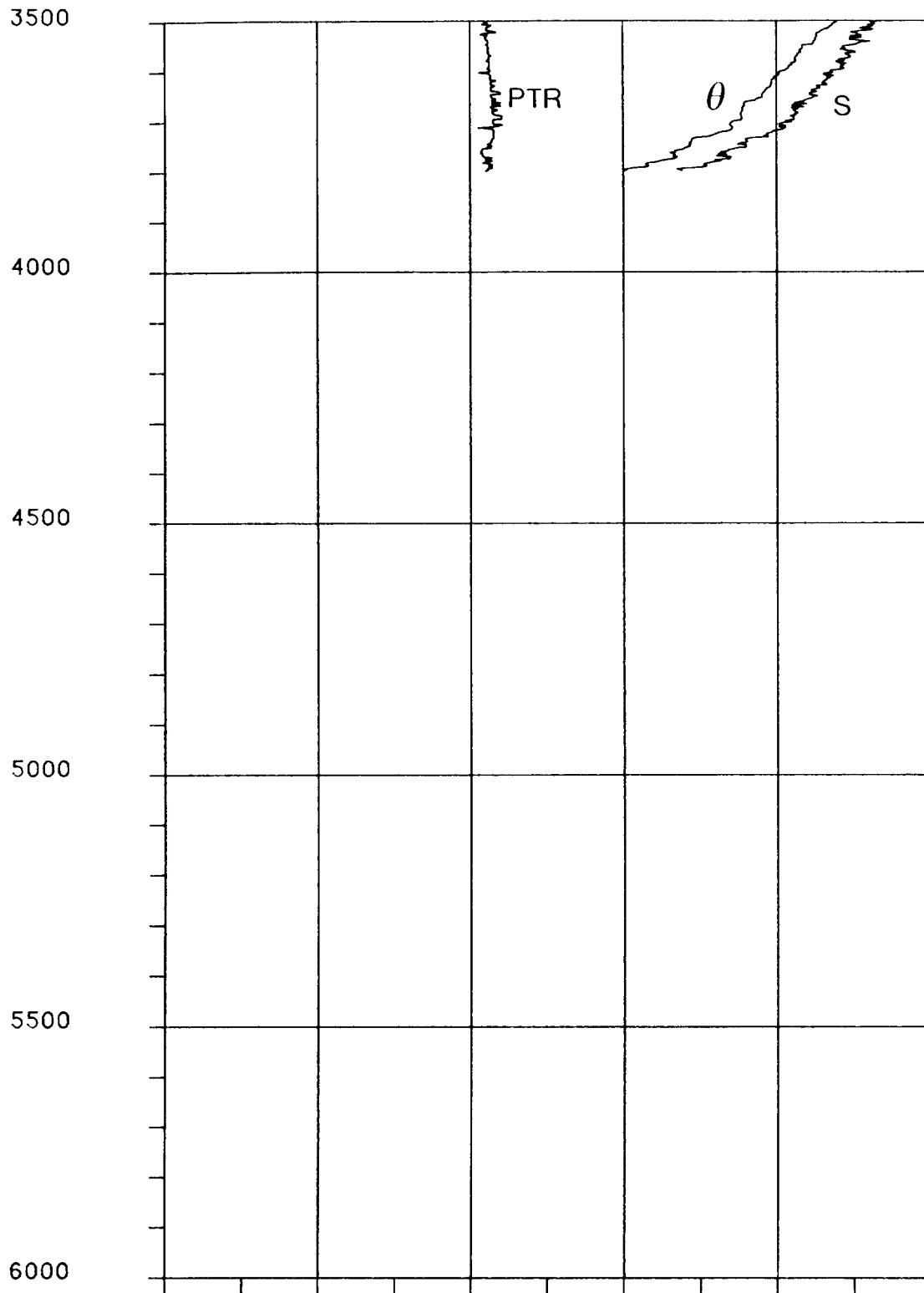


0.0	5.0	10.0	15.0	20.0	25.0	30.0	TEMP
34.90	35.10	35.30	35.50	35.70	35.90	36.10	SALIN
3.0	4.0	5.0	6.0	7.0	8.0	9.0	OXYGEN



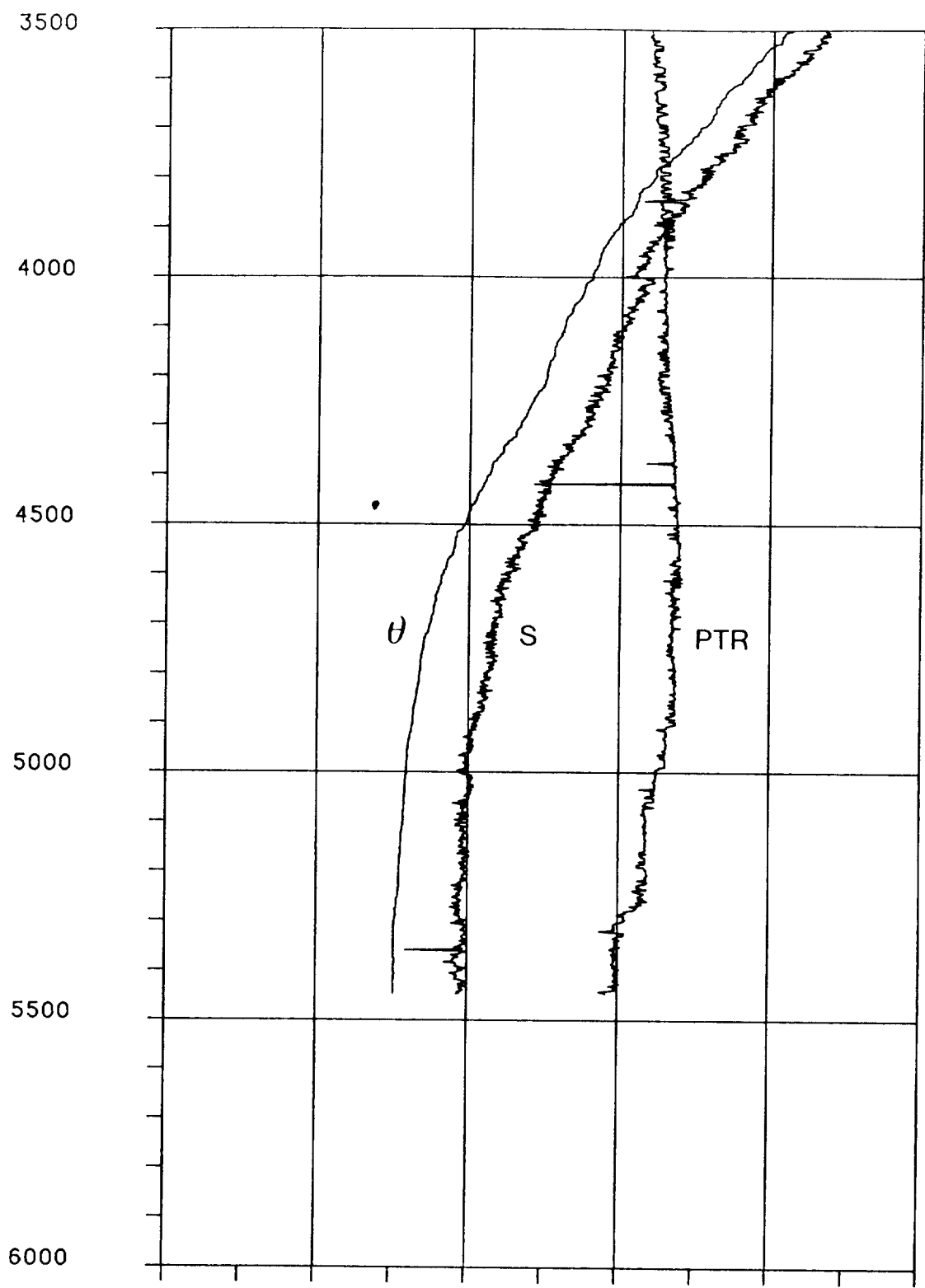






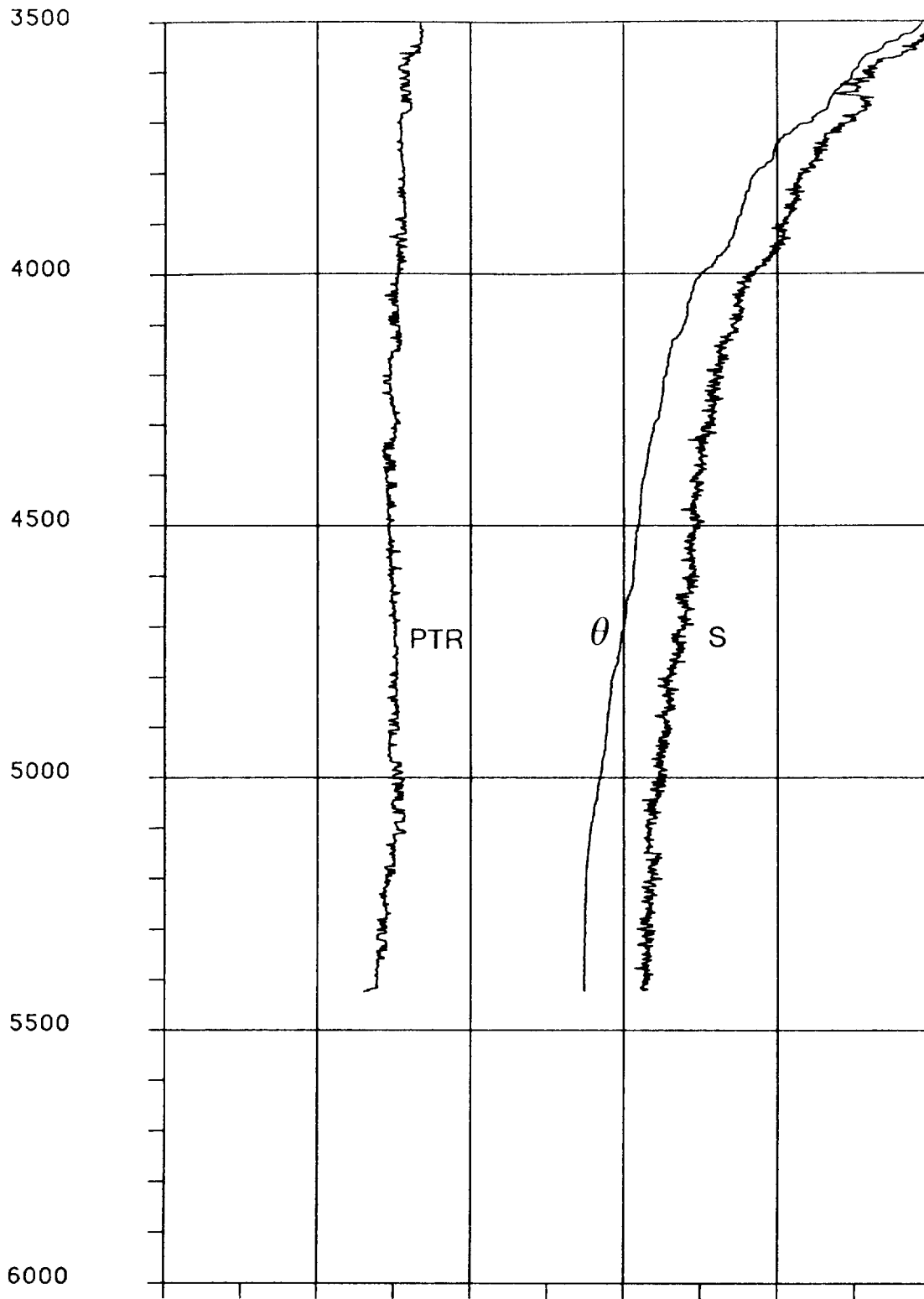
1.90	2.00	2.10	2.20	2.30	2.40	POTEMP
34.88	34.89	34.90	34.91	34.92	34.93	SAL78
67.50	68.00	68.50	69.00	69.50	70.00	POTRAN

DARWIN 3/85 002 37 17N 18 38W



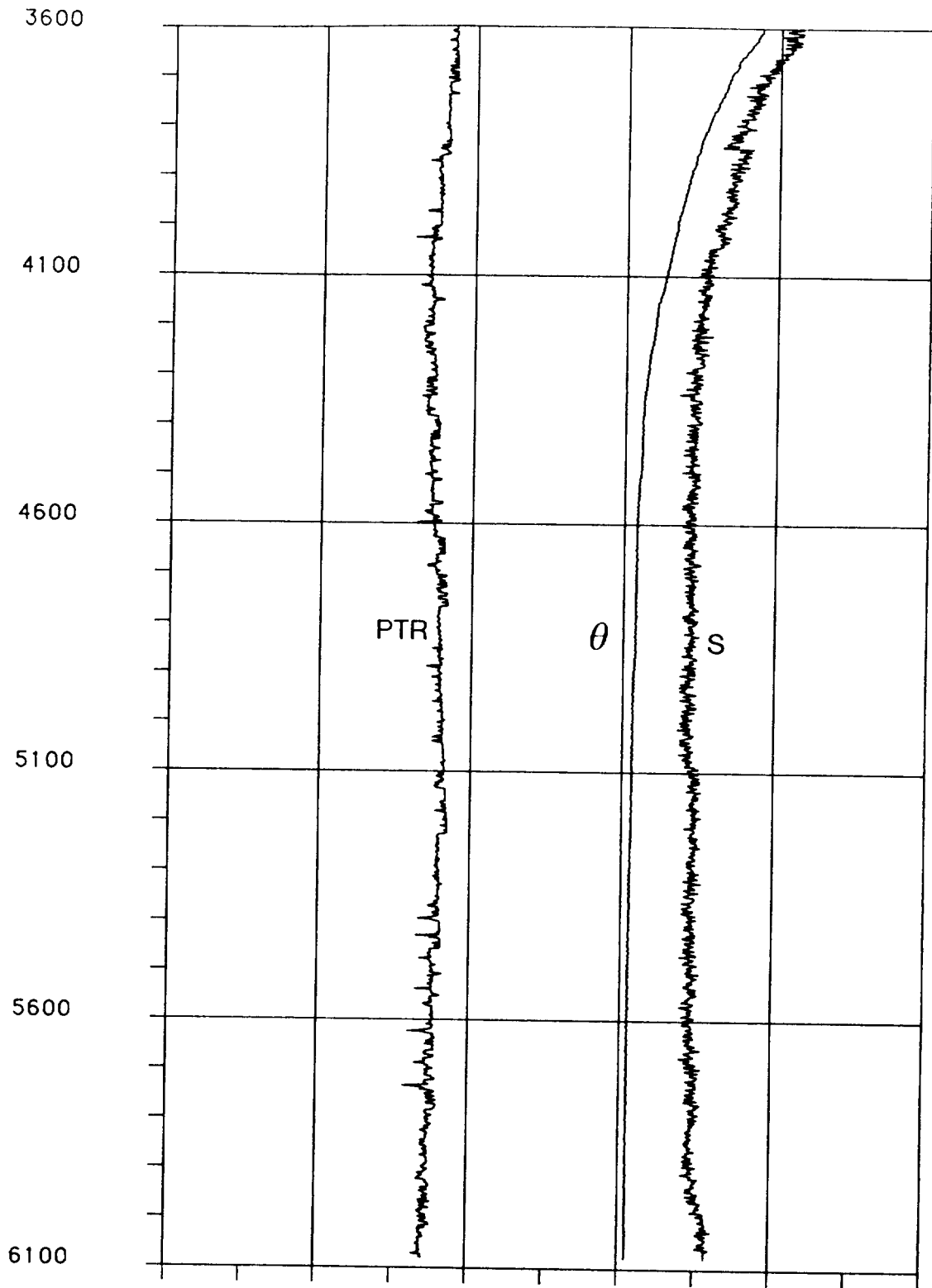
1.90	2.00	2.10	2.20	2.30	2.40	POTEMP
34.88	34.89	34.90	34.91	34.92	34.93	SALIN
67.50	68.00	68.50	69.00	69.50	70.00	POTRAN

DARWIN 3/85 STN 03 41 29N 13 29W



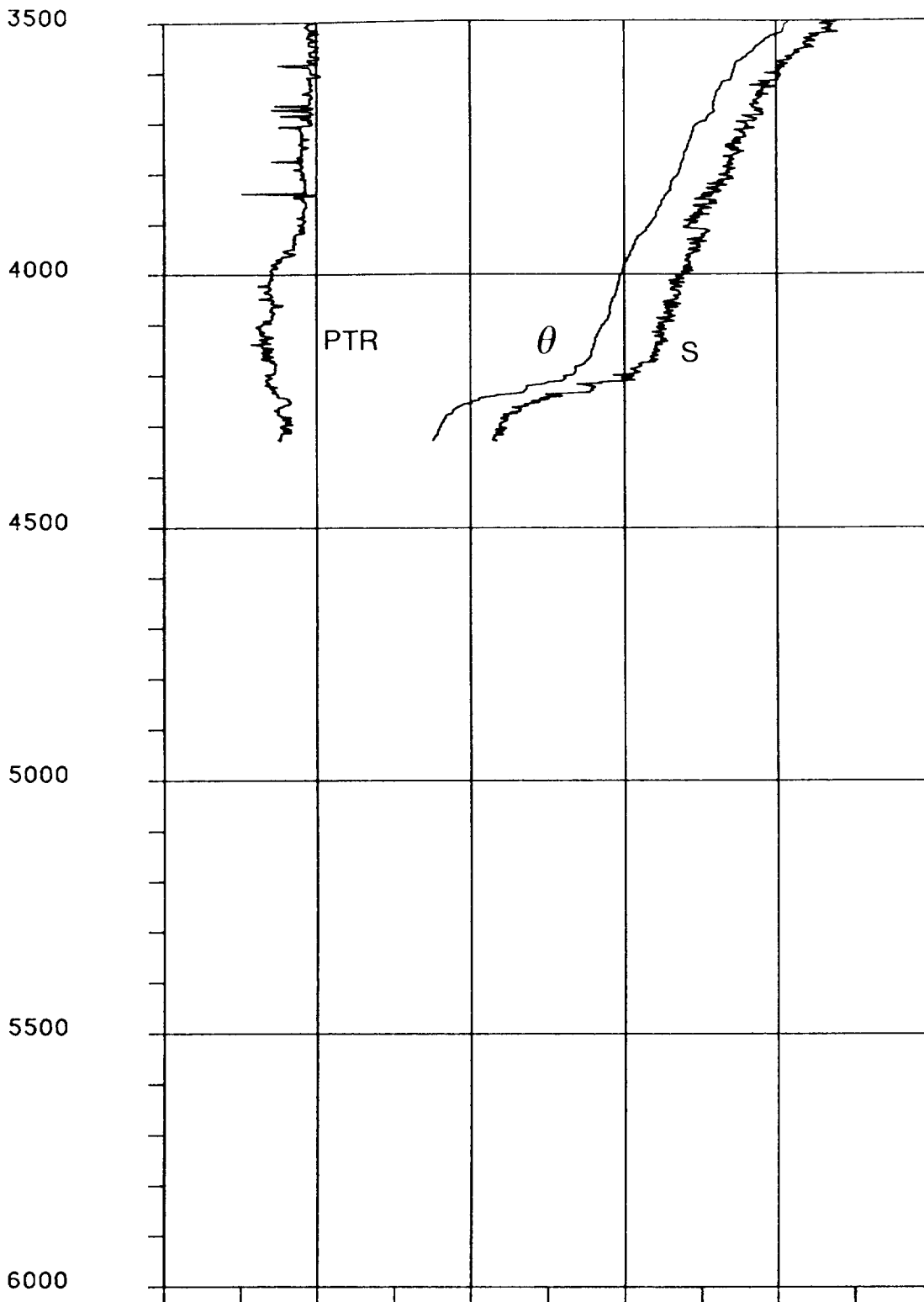
1.90	2.00	2.10	2.20	2.30	2.40	POTEMP
34.88	34.89	34.90	34.91	34.92	34.93	SALIN
68.00	68.50	69.00	69.50	70.00	70.50	POTRAN

DARWIN 3/85 STN 04 42 39N 20 00W



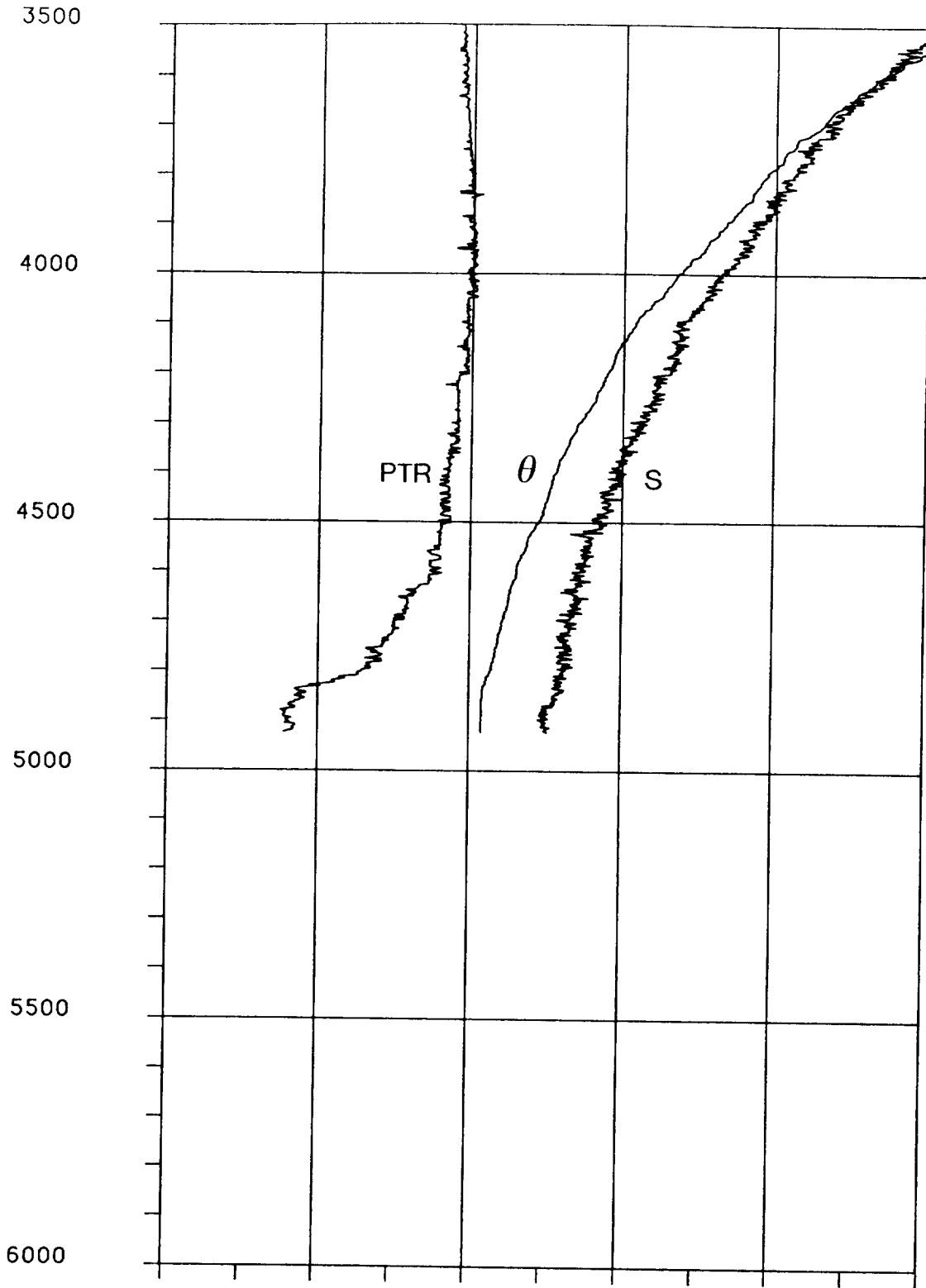
1.90	2.00	2.10	2.20	2.30	2.40	POTEMP
34.88	34.89	34.90	34.91	34.92	34.93	SALIN
68.00	68.50	69.00	69.50	70.00	70.50	POTRAN

DARWIN 3/85 STN 05 43 07N 19 49W



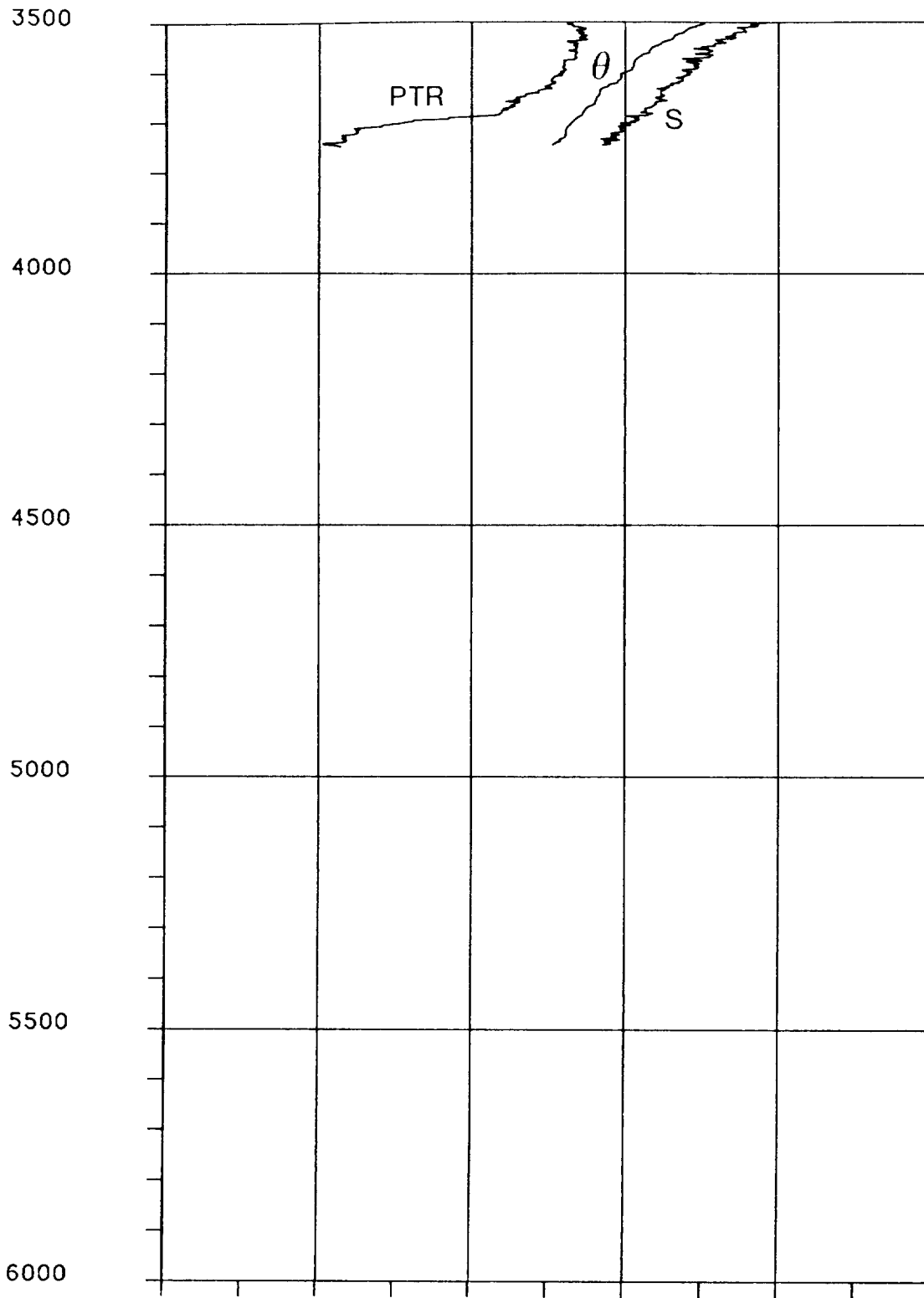
1.90	2.00	2.10	2.20	2.30	2.40	POTEMP
34.88	34.89	34.90	34.91	34.92	34.93	SALIN
68.50	69.00	69.50	70.00	POTRAN		

DARWIN 3/85 STN 06 44 51N 14 59W



1.90	2.00	2.10	2.20	2.30	2.40	POTEMP
34.88	34.89	34.90	34.91	34.92	34.93	SALIN
68.00	68.50	69.00	69.50	70.00	70.50	POTRAN

DARWIN 3/85 STN 07 47 44N 15 22W



1.90	2.00	2.10	2.20	2.30	2.40	POTEMP
34.88	34.89	34.90	34.91	34.92	34.93	SALIN
67.50	68.00	68.50	69.00	69.50	70.00	POTRAN

DARWIN 3/85 STN 16 50 34N 14 55W

C. DARWIN 3/85 STATION 002

P-DB	T-DEGC	SAL-PSU	POTRAN	DO-ML/L	POTEMP	SIGMA0	SIG4000	DYNHT-M	SNDV-M/S	DEPTH-M	SVANOM	BVFR-C/HR
10.	15.176	36.048	61.55	5.60	15.1745	26.7425	43.5609	0.013	1508.6	10.	0.1295E 03	-9.990
20.	15.176	36.049	61.94	5.59	15.1727	26.7438	43.5623	0.026	1508.8	20.	0.1298E 03	0.636
30.	15.162	36.049	61.88	5.60	15.1570	26.7473	43.5669	0.039	1508.9	30.	0.1298E 03	1.052
50.	15.064	36.036	61.90	5.62	15.0568	26.7589	43.5857	0.065	1508.9	50.	0.1293E 03	1.360
75.	15.055	36.035	62.85	5.59	15.0440	26.7615	43.5892	0.097	1509.3	74.	0.1299E 03	0.573
100.	14.765	35.975	64.64	5.60	14.7498	26.7799	43.6295	0.130	1508.7	99.	0.1290E 03	1.544
125.	14.263	35.900	66.40	5.68	14.2449	26.8315	43.7185	0.161	1507.4	124.	0.1248E 03	2.581
150.	13.896	35.868	66.80	5.65	13.8739	26.8853	43.7997	0.192	1506.6	149.	0.1204E 03	2.632
200.	13.256	35.779	66.96	5.30	13.2276	26.9509	43.9145	0.251	1505.3	198.	0.1155E 03	2.071
250.	12.754	35.710	67.08	5.30	12.7200	26.9999	44.0028	0.308	1504.3	248.	0.1121E 03	1.800
300.	12.423	35.665	67.16	5.28	12.3827	27.0322	44.0616	0.363	1504.0	298.	0.1103E 03	1.471
400.	11.869	35.596	67.38	5.28	11.8163	27.0882	44.1625	0.472	1503.7	397.	0.1074E 03	1.379
500.	11.343	35.540	67.42	5.14	11.2793	27.1455	44.2629	0.578	1503.5	496.	0.1042E 03	1.404
600.	10.754	35.517	67.70	4.75	10.6790	27.2371	44.4026	0.679	1503.0	595.	0.9745E 02	1.765
700.	10.673	35.619	67.81	4.46	10.5855	27.3331	44.5032	0.774	1504.5	694.	0.9083E 02	1.749
800.	10.915	35.816	67.85	4.30	10.8133	27.4459	44.5925	0.861	1507.3	793.	0.8317E 02	1.848
900.	10.572	35.866	67.93	4.36	10.4596	27.5485	44.7220	0.940	1507.8	891.	0.7547E 02	1.853
1000.	10.281	35.907	67.96	4.40	10.1568	27.6335	44.8302	1.013	1508.5	990.	0.6941E 02	1.693
1200.	9.342	35.867	68.04	4.66	9.1997	27.7651	45.0416	1.142	1508.3	1188.	0.5958E 02	1.562
1400.	7.159	35.503	68.08	5.34	7.0143	27.8139	45.2903	1.253	1503.0	1385.	0.5267E 02	1.357
1600.	5.796	35.302	68.12	5.68	5.6450	27.8365	45.4449	1.355	1500.8	1582.	0.4896E 02	1.082
1800.	4.752	35.147	68.15	5.94	4.5934	27.8387	45.5527	1.450	1499.7	1779.	0.4706E 02	0.878
2000.	4.150	35.070	68.18	5.98	3.9796	27.8438	45.6207	1.543	1500.5	1976.	0.4596E 02	0.754
2200.	3.673	35.019	68.24	6.00	3.4910	27.8535	45.6811	1.634	1501.8	2172.	0.4452E 02	0.765
2400.	3.371	34.989	68.30	5.97	3.1736	27.8600	45.7209	1.722	1503.8	2369.	0.4390E 02	0.644
2600.	3.134	34.969	68.32	5.94	2.9218	27.8674	45.7549	1.809	1506.2	2565.	0.4333E 02	0.621
2800.	2.955	34.956	68.39	5.86	2.7262	27.8751	45.7832	1.896	1508.8	2761.	0.4289E 02	0.588
3000.	2.802	34.944	68.45	5.79	2.5557	27.8806	45.8069	1.981	1511.5	2957.	0.4266E 02	0.547
3200.	2.744	34.939	68.52	5.75	2.4781	27.8829	45.8174	2.067	1514.7	3152.	0.4332E 02	0.372
3400.	2.668	34.930	68.54	5.71	2.3819	27.8843	45.8292	2.154	1517.8	3348.	0.4383E 02	0.400
3600.	2.609	34.924	68.57	5.70	2.3032	27.8856	45.8390	2.242	1520.9	3543.	0.4443E 02	0.373

*

C. DARWIN 3/85 STATION 003

P-DB	T-DEGC	SAL-PSU	POTRAN	DO-M/L	POTEMP	SICMA0	SIG4000	DYNHT-M	SNDV-M/S	DEPTH-M	SVANOM	RVFR-C/HR
10.	13.730	35.786	60.28		13.7282	26.8529	43.7798	0.012	1503.7	10.	0.1190E 03	-9.990
20.	13.732	35.790	60.56		13.7294	26.8554	43.7822	0.024	1503.9	20.	0.1191E 03	0.892
30.	13.731	35.792	60.65		13.7272	26.8575	43.7844	0.036	1504.0	30.	0.1192E 03	0.814
50.	13.727	35.792	60.98		13.7202	26.8593	43.7867	0.060	1504.3	50.	0.1197E 03	0.531
75.	13.612	35.776	63.97		13.6008	26.8720	43.8084	0.090	1504.4	74.	0.1192E 03	1.274
100.	13.308	35.764	66.62		13.2936	26.9262	43.8853	0.119	1503.8	99.	0.1148E 03	2.630
125.	13.182	35.754	66.79		13.1644	26.9445	43.9133	0.147	1503.7	124.	0.1138E 03	1.534
150.	13.066	35.744	67.00		13.0448	26.9613	43.9392	0.176	1503.8	149.	0.1129E 03	1.471
200.	12.607	35.688	67.43		12.5803	27.0111	44.0250	0.231	1503.0	198.	0.1095E 03	1.803
250.	12.151	35.639	67.80		12.1180	27.0632	44.1133	0.285	1502.2	248.	0.1058E 03	1.852
300.	11.891	35.609	67.81		11.8522	27.0911	44.1623	0.338	1502.1	297.	0.1044E 03	1.362
400.	11.406	35.555	67.73		11.3545	27.1432	44.2544	0.441	1502.0	396.	0.1018E 03	1.328
500.	11.010	35.560	67.87		10.9477	27.2222	44.3652	0.540	1502.3	496.	0.9663E 02	1.617
600.	10.838	35.579	68.08		10.7646	27.2699	44.4270	0.635	1503.4	594.	0.9449E 02	1.253
700.	10.808	35.690	68.24		10.7199	27.3645	44.5220	0.726	1505.1	693.	0.8808E 02	1.730
800.	10.997	35.850	68.30		10.8946	27.4572	44.5965	0.811	1507.6	792.	0.8225E 02	1.678
900.	10.850	35.938	68.47		10.7351	27.5551	44.7046	0.889	1508.8	891.	0.7538E 02	1.779
1000.	10.819	36.015	68.53		10.6908	27.6230	44.7739	0.963	1510.5	990.	0.7152E 02	1.468
1200.	10.074	35.996	68.62		9.9249	27.7433	44.9564	1.095	1511.1	1187.	0.6349E 02	1.478
1400.	8.441	35.741	68.61		8.2825	27.8129	45.1708	1.216	1508.2	1384.	0.5680E 02	1.369
1600.	6.390	35.391	68.80		6.2316	27.8316	45.3827	1.324	1503.2	1581.	0.5164E 02	1.219
1800.	4.601	35.104	68.82		4.4441	27.8214	45.5513	1.423	1499.0	1778.	0.4798E 02	1.041
2000.	3.996	35.035	68.84		3.8286	27.8323	45.6254	1.517	1499.8	1975.	0.4626E 02	0.814
2200.	3.672	35.011	68.86		3.4901	27.8471	45.6750	1.609	1501.8	2171.	0.4510E 02	0.728
2400.	3.428	34.994	68.89		3.2300	27.8587	45.7137	1.698	1504.1	2368.	0.4436E 02	0.661
2600.	3.170	34.975	68.91		2.9564	27.8692	45.7528	1.786	1506.4	2564.	0.4340E 02	0.674
2800.	2.982	34.960	68.93		2.7520	27.8762	45.7815	1.872	1508.9	2760.	0.4297E 02	0.589
3000.	2.839	34.947	68.98		2.5919	27.8794	45.8018	1.958	1511.7	2956.	0.4304E 02	0.500
3200.	2.735	34.937	69.03		2.4692	27.8823	45.8178	2.044	1514.7	3151.	0.4330E 02	0.457
3400.	2.643	34.928	69.09		2.3581	27.8845	45.8320	2.131	1517.7	3347.	0.4361E 02	0.439
3600.	2.585	34.920	69.11		2.2798	27.8851	45.8410	2.219	1520.8	3542.	0.4427E 02	0.356
3800.	2.549	34.916	69.13		2.2220	27.8860	45.8483	2.308	1524.1	3737.	0.4503E 02	0.328
4000.	2.530	34.910	69.15		2.1810	27.8853	45.8521	2.399	1527.5	3932.	0.4606E 02	0.242
4200.	2.524	34.909	69.14		2.1512	27.8865	45.8565	2.492	1530.9	4126.	0.4702E 02	0.265
4400.	2.509	34.905	69.18		2.1136	27.8868	45.8609	2.587	1534.3	4321.	0.4796E 02	0.273
4500.	2.505	34.905	69.19		2.0979	27.8874	45.8632	2.635	1536.0	4418.	0.4842E 02	0.281
4600.	2.503	34.902	69.19		2.0833	27.8869	45.8643	2.684	1537.7	4515.	0.4899E 02	0.201
4700.	2.507	34.902	69.18		2.0750	27.8870	45.8653	2.733	1539.5	4613.	0.4957E 02	0.191
4800.	2.513	34.901	69.18		2.0684	27.8870	45.8660	2.783	1541.2	4710.	0.5018E 02	0.161
4900.	2.521	34.900	69.19		2.0639	27.8869	45.8664	2.834	1543.0	4807.	0.5083E 02	0.120
5000.	2.530	34.900	69.12		2.0598	27.8868	45.8668	2.885	1544.8	4904.	0.5148E 02	0.122
5100.	2.542	34.900	69.09		2.0578	27.8866	45.8675	2.937	1546.5	5001.	0.5217E 02	0.062
5200.	2.552	34.900	69.10		2.0553	27.8871	45.8675	2.989	1548.3	5098.	0.5280E 02	0.154
5300.	2.563	34.900	69.02		2.0523	27.8871	45.8679	3.042	1550.1	5194.	0.5346E 02	0.125
5400.	2.576	34.900	69.00		2.0520	27.8872	45.8679	3.096	1551.0	5291.	0.5417E 02	0.045

C. DARWIN 3/85 STATION 004

P-DB	T-DEGC	SAL-PSU	POTRAN	DO-ML/L	POTEMP	SIGMA0	SIG4000	DYNHT-M	SNDV-M/S	DEPTH-M	SVANOM	BVFR-C/HR
10.	14.160	35.857	46.21		14.1584	26.8171	43.7113	0.012	1505.2	10.	0.1224E 03	-9.990
20.	14.137	35.855	46.28		14.1342	26.8203	43.7164	0.024	1505.2	20.	0.1225E 03	1.020
30.	13.955	35.841	47.46		13.9506	26.8487	43.7582	0.037	1504.8	30.	0.1201E 03	2.997
50.	13.867	35.849	59.58		13.8601	26.8738	43.7896	0.060	1504.9	50.	0.1183E 03	1.995
75.	13.702	35.792	65.13		13.6910	26.8651	43.7946	0.090	1504.7	74.	0.1199E 03	-1.035
100.	13.325	35.740	66.79		13.3105	26.9041	43.8626	0.120	1503.8	99.	0.1169E 03	2.240
125.	13.133	35.707	67.18		13.1159	26.9183	43.8919	0.149	1503.5	124.	0.1163E 03	1.360
150.	13.085	35.728	67.20		13.0642	26.9450	43.9219	0.178	1503.8	149.	0.1145E 03	1.842
200.	12.899	35.723	67.50		12.8712	26.9795	43.9708	0.235	1504.0	198.	0.1126E 03	1.491
250.	12.553	35.667	67.68		12.5196	27.0065	44.0256	0.291	1503.6	248.	0.1114E 03	1.346
300.	12.374	35.643	67.70		12.3338	27.0242	44.0578	0.346	1503.8	297.	0.1110E 03	1.087
400.	11.729	35.561	67.97		11.6764	27.0873	44.1733	0.456	1503.2	396.	0.1074E 03	1.465
500.	11.164	35.492	68.12		11.1008	27.1411	44.2739	0.562	1502.8	495.	0.1044E 03	1.370
600.	10.584	35.440	68.29		10.5099	27.2071	44.3882	0.664	1502.3	594.	0.1000E 03	1.518
700.	10.330	35.515	68.52		10.2445	27.3119	44.5124	0.761	1503.2	693.	0.92229E 02	1.848
800.	9.636	35.488	68.61		9.5422	27.4118	44.6705	0.850	1502.3	792.	0.8416E 02	1.876
900.	9.574	35.620	68.64		9.4679	27.5269	44.7880	0.929	1503.9	891.	0.7556E 02	1.911
1000.	9.029	35.624	68.72		8.9142	27.6216	44.9290	1.001	1503.6	990.	0.6780E 02	1.832
1200.	6.454	35.258	68.71		6.3380	27.7131	45.2582	1.125	1496.7	1187.	0.5657E 02	1.589
1400.	5.226	35.106	68.77		5.1011	27.7473	45.4134	1.232	1494.9	1384.	0.5244E 02	1.090
1600.	4.570	35.031	68.79		4.4338	27.7641	45.4973	1.335	1495.5	1581.	0.5088E 02	0.824
1800.	4.047	34.969	68.77		3.8983	27.7724	45.5605	1.436	1496.6	1778.	0.5003E 02	0.716
2000.	3.879	34.973	68.81		3.7136	27.7941	45.6007	1.535	1499.2	1975.	0.4917E 02	0.697
2200.	3.605	34.956	68.84		3.4239	27.8097	45.6460	1.632	1501.4	2171.	0.4813E 02	0.707
2400.	3.388	34.950	68.85		3.1911	27.8276	45.6879	1.727	1503.9	2367.	0.4694E 02	0.712
2600.	3.163	34.956	68.87		2.9502	27.8544	45.7393	1.818	1506.3	2564.	0.4469E 02	0.820
2800.	2.999	34.954	68.89		2.7692	27.8699	45.7736	1.907	1509.0	2760.	0.4366E 02	0.670
3000.	2.893	34.948	68.87		2.6439	27.8757	45.7926	1.994	1511.9	2955.	0.4377E 02	0.496
3200.	2.780	34.941	68.88		2.5133	27.8814	45.8122	2.082	1514.9	3151.	0.4373E 02	0.513
3400.	2.711	34.934	68.85		2.4244	27.8836	45.8239	2.169	1518.0	3346.	0.4425E 02	0.401
3600.	2.657	34.926	68.79		2.3495	27.8834	45.8318	2.259	1521.2	3541.	0.4505E 02	0.331
3800.	2.615	34.922	68.78		2.2865	27.8859	45.8411	2.349	1524.4	3736.	0.4565E 02	0.372
4000.	2.602	34.918	68.76		2.2502	27.8857	45.8449	2.442	1527.8	3931.	0.4672E 02	0.242
4200.	2.603	34.916	68.74		2.2279	27.8858	45.8474	2.536	1531.2	4126.	0.4789E 02	0.201
4400.	2.613	34.915	68.73		2.2138	27.8862	45.8493	2.633	1534.7	4321.	0.4911E 02	0.177
4500.	2.621	34.915	68.73		2.2100	27.8864	45.8500	2.683	1536.5	4418.	0.4976E 02	0.151
4600.	2.630	34.915	68.74		2.2062	27.8865	45.8505	2.733	1538.3	4515.	0.5042E 02	0.136
4700.	2.637	34.914	68.75		2.2003	27.8864	45.8510	2.784	1540.0	4612.	0.5107E 02	0.144
4800.	2.642	34.913	68.76		2.1927	27.8863	45.8518	2.835	1541.8	4709.	0.5171E 02	0.165
4900.	2.651	34.913	68.76		2.1892	27.8864	45.8522	2.887	1543.5	4806.	0.5238E 02	0.127
5000.	2.660	34.913	68.75		2.1845	27.8868	45.8531	2.940	1545.3	4903.	0.5301E 02	0.179
5100.	2.667	34.912	68.76		2.1786	27.8865	45.8534	2.993	1547.1	5000.	0.5368E 02	0.125
5200.	2.677	34.912	68.72		2.1752	27.8871	45.8544	3.047	1548.9	5097.	0.5431E 02	0.185
5300.	2.690	34.911	68.70		2.1750	27.8863	45.8536	3.102	1550.7	5194.	0.5511E 02	-0.157
5400.	2.703	34.911	68.69		2.1740	27.8867	45.8542	3.157	1552.5	5291.	0.5579E 02	0.131

C. .RWIN 3/85 STATION 005

P-DR	T-DEGC	SAL-PSU	POTRAN	DO-MI/L	POTEMP	SIGMA0	SIC4000	DYNHT-M	SNDV-M/S	DEPTH-M	SVANOM	RVFR-C/HR
10.	13.620	35.790	56.65		13.6184	26.8789	43.8137	0.012	1503.3	10.	0.1166E 03	-9.990
20.	13.637	35.795	57.58		13.6340	26.8791	43.8127	0.023	1503.6	20.	0.1169E 03	0.261
30.	13.621	35.791	57.04		13.6167	26.8797	43.8146	0.035	1503.7	30.	0.1171E 03	0.440
50.	13.629	35.818	61.64		13.6219	26.8997	43.8335	0.058	1504.0	50.	0.1158E 03	1.775
75.	13.542	35.806	66.29		13.5313	26.9092	43.8498	0.087	1504.2	74.	0.1157E 03	1.100
100.	13.471	35.799	67.03		13.4566	26.9193	43.8656	0.116	1504.3	99.	0.1155E 03	1.137
125.	13.349	35.780	67.23		13.3319	26.9303	43.8862	0.145	1504.3	124.	0.1152E 03	1.197
150.	13.029	35.748	67.53		13.0078	26.9720	43.9525	0.173	1503.6	149.	0.1119E 03	2.319
200.	12.518	35.684	67.46		12.4915	27.0254	44.0461	0.228	1502.7	198.	0.1081E 03	1.869
250.	12.295	35.655	67.58		12.2612	27.0477	44.0865	0.282	1502.7	248.	0.1074E 03	1.214
300.	12.046	35.625	67.71		12.0066	27.0741	44.1330	0.335	1502.7	297.	0.1061E 03	1.327
400.	11.554	35.566	67.86		11.5025	27.1238	44.2232	0.440	1502.6	396.	0.1038E 03	1.300
500.	11.145	35.524	68.09		11.0811	27.1691	44.3026	0.543	1502.8	495.	0.1018E 03	1.249
600.	10.692	35.488	68.24		10.6173	27.2253	44.3965	0.643	1502.8	594.	0.9847E 02	1.396
700.	10.495	35.543	68.36		10.4088	27.3055	44.4919	0.739	1503.8	693.	0.9314E 02	1.617
800.	10.498	35.646	68.36		10.3989	27.3872	44.5716	0.830	1505.6	792.	0.8794E 02	1.603
900.	9.842	35.632	68.49		9.7338	27.4915	44.7304	0.913	1504.9	891.	0.7938E 02	1.918
1000.	10.207	35.823	68.55		10.0833	27.5809	44.7859	0.990	1508.1	990.	0.7414E 02	1.600
1200.	8.893	35.709	68.60		8.7549	27.7138	45.0322	1.125	1506.5	1187.	0.6316E 02	1.617
1400.	5.822	35.205	68.65		5.6908	27.7539	45.3610	1.241	1497.4	1384.	0.5382E 02	1.476
1600.	4.711	35.057	68.71		4.5726	27.7699	45.4886	1.345	1496.1	1581.	0.5090E 02	0.969
1800.	4.145	34.989	68.73		3.9951	27.7785	45.5563	1.446	1497.0	1778.	0.4990E 02	0.740
2000.	3.882	34.973	68.77		3.7157	27.7940	45.6003	1.545	1499.2	1975.	0.4919E 02	0.683
2200.	3.713	34.977	68.82		3.5300	27.8157	45.6407	1.642	1501.9	2171.	0.4816E 02	0.709
2400.	3.418	34.968	68.83		3.2200	27.8391	45.6959	1.736	1504.0	2367.	0.4607E 02	0.816
2600.	3.199	34.962	68.86		2.9851	27.8566	45.7377	1.827	1506.5	2563.	0.4471E 02	0.723
3000.	3.016	34.957	68.88		2.7853	27.8706	45.7725	1.915	1509.1	2759.	0.4371E 02	0.669
3200.	2.858	34.948	68.91		2.6098	27.8786	45.7990	2.002	1511.8	2955.	0.4325E 02	0.585
3400.	2.737	34.938	68.92		2.4711	27.8829	45.8182	2.089	1514.7	3151.	0.4326E 02	0.503
3600.	2.638	34.928	68.95		2.3531	27.8849	45.8329	2.176	1517.6	3346.	0.4353E 02	0.447
3800.	2.595	34.921	68.93		2.2889	27.8848	45.8398	2.263	1520.9	3541.	0.4438E 02	0.309
4000.	2.580	34.918	68.90		2.2526	27.8852	45.8442	2.353	1524.2	3736.	0.4539E 02	0.255
4200.	2.584	34.916	68.88		2.2329	27.8856	45.8466	2.445	1527.7	3931.	0.4656E 02	0.194
4400.	2.594	34.915	68.85		2.2192	27.8857	45.8483	2.539	1531.2	4126.	0.4780E 02	0.163
4500.	2.611	34.914	68.89		2.2104	27.8858	45.8491	2.636	1534.7	4320.	0.4913E 02	0.120
4600.	2.622	34.915	68.85		2.2086	27.8862	45.8497	2.686	1536.5	4418.	0.4978E 02	0.140
4800.	2.634	34.914	68.86		2.2081	27.8863	45.8500	2.736	1538.3	4515.	0.5048E 02	0.050
4900.	2.645	34.914	68.88		2.2081	27.8863	45.8500	2.787	1540.1	4612.	0.5117E 02	0.091
5000.	2.657	34.915	68.89		2.2079	27.8865	45.8503	2.838	1541.8	4709.	0.5187E 02	0.086
5100.	2.669	34.915	68.90		2.2068	27.8867	45.8505	2.890	1543.6	4806.	0.5256E 02	0.095
5200.	2.682	34.914	68.90		2.2066	27.8861	45.8500	2.943	1545.4	4903.	0.5333E 02	-0.124
5300.	2.696	34.915	68.91		2.2065	27.8866	45.8505	2.997	1547.2	5000.	0.5402E 02	0.124
5400.	2.709	34.915	68.92		2.2065	27.8866	45.8505	3.051	1549.0	5097.	0.5475E 02	-0.032
5500.	2.722	34.915	68.90		2.2058	27.8865	45.8505	3.107	1550.8	5194.	0.5548E 02	0.036
5600.	2.735	34.915	68.89		2.2055	27.8866	45.8507	3.162	1552.6	5290.	0.5621E 02	0.069
5800.	2.749	34.914	68.88		2.2053	27.8865	45.8505	3.219	1554.4	5387.	0.5696E 02	-0.066
5900.	2.763	34.915	68.88		2.2050	27.8866	45.8507	3.276	1556.2	5484.	0.5770E 02	0.070
5700.	2.777	34.915	68.87		2.2053	27.8867	45.8507	3.334	1558.0	5581.	0.5844E 02	0.032
5800.	2.791	34.915	68.87		2.2049	27.8869	45.8510	3.393	1559.8	5677.	0.5917E 02	0.098
6000.	2.820	34.916	68.87		2.2049	27.8875	45.8515	3.513	1563.4	5871.	0.6064E 02	0.090

*

C. DARWIN 3/85 STATION 006

P-DB	T-DEGC	SAL-PSU	POTRAN	DO-ML/L	POTEMP	SIGMA0	SIG4000	DYNHT-M	SNDV-M/S	DEPTH-M	SVANOM	BVFR-C/IR
10.	12.865	35.675	53.46		12.8637	26.9440	43.9371	0.011	1500.7	10.	0.1104E 03	-9.990
20.	12.831	35.678	53.10		12.8282	26.9534	43.9491	0.022	1500.8	20.	0.1098E 03	1.726
30.	12.827	35.680	54.04		12.8233	26.9558	43.9518	0.033	1500.9	30.	0.1099E 03	0.870
50.	12.827	35.681	55.42		12.8204	26.9574	43.9535	0.055	1501.2	50.	0.1103E 03	0.503
75.	12.475	35.669	67.10		12.4650	27.0187	44.0418	0.082	1500.5	74.	0.1052E 03	2.794
100.	12.179	35.631	67.29		12.1661	27.0477	44.0944	0.108	1499.8	99.	0.1031E 03	1.934
125.	12.062	35.622	67.31		12.0453	27.0640	44.1201	0.134	1499.8	124.	0.1022E 03	1.446
150.	11.903	35.606	67.54		11.8837	27.0828	44.1516	0.159	1499.7	149.	0.1011E 03	1.558
200.	11.620	35.575	67.77		11.5945	27.1138	44.2058	0.209	1499.5	198.	0.9942E 02	1.423
250.	11.402	35.550	67.91		11.3704	27.1359	44.2460	0.259	1499.5	248.	0.9857E 02	1.210
300.	11.245	35.535	68.00		11.2071	27.1549	44.2782	0.308	1499.8	297.	0.9799E 02	1.124
400.	10.983	35.515	68.10		10.9332	27.1896	44.3349	0.406	1500.5	396.	0.9712E 02	1.077
500.	10.657	35.489	68.21		10.5952	27.2300	44.4029	0.502	1501.0	495.	0.9552E 02	1.175
600.	10.452	35.520	68.30		10.3784	27.2925	44.4820	0.596	1502.0	594.	0.9187E 02	1.433
700.	10.527	35.676	68.46		10.4400	27.4032	44.5835	0.684	1504.1	693.	0.8405E 02	1.857
800.	10.637	35.809	68.50		10.5366	27.4904	44.6592	0.765	1506.3	792.	0.7854E 02	1.638
900.	10.330	35.849	68.52		10.2189	27.5772	44.7705	0.841	1506.9	891.	0.7234E 02	1.708
1000.	9.862	35.833	68.58		9.7413	27.6474	44.8800	0.910	1506.9	990.	0.6722E 02	1.590
1200.	8.342	35.623	68.65		8.2085	27.7315	45.0992	1.037	1504.3	1187.	0.6005E 02	1.394
1400.	6.177	35.283	68.77		6.0424	27.7712	45.3431	1.148	1498.9	1384.	0.5341E 02	1.311
1600.	4.361	35.008	68.73		4.2267	27.7688	45.5230	1.250	1494.6	1581.	0.4963E 02	1.041
1800.	3.864	34.957	68.78		3.7175	27.7813	45.5880	1.348	1495.8	1778.	0.4839E 02	0.750
2000.	3.808	34.979	68.82		3.6433	27.8067	45.6201	1.444	1498.9	1974.	0.4767E 02	0.673
2200.	3.581	34.977	68.84		3.3999	27.8287	45.6669	1.538	1501.3	2171.	0.4626E 02	0.748
2400.	3.328	34.968	68.86		3.1321	27.8477	45.7134	1.629	1503.6	2367.	0.4476E 02	0.746
2600.	3.103	34.961	68.87		2.8912	27.8640	45.7548	1.717	1506.1	2563.	0.4344E 02	0.715
2800.	2.930	34.951	68.90		2.7010	27.8735	45.7843	1.803	1508.7	2759.	0.4286E 02	0.607
3000.	2.812	34.944	68.94		2.5656	27.8795	45.8047	1.889	1511.6	2955.	0.4283E 02	0.513
3200.	2.710	34.935	68.95		2.4442	27.8828	45.8210	1.975	1514.5	3150.	0.4305E 02	0.462
3400.	2.632	34.927	68.98		2.3473	27.8850	45.8337	2.061	1517.6	3346.	0.4347E 02	0.415
3600.	2.577	34.920	68.98		2.2719	27.8855	45.8423	2.149	1520.8	3541.	0.4416E 02	0.349
3800.	2.563	34.917	68.95		2.2357	27.8859	45.8466	2.238	1524.2	3736.	0.4517E 02	0.252
4000.	2.548	34.914	68.85		2.1980	27.8868	45.8516	2.329	1527.5	3931.	0.4610E 02	0.278
4200.	2.536	34.910	68.84		2.1633	27.8863	45.8550	2.423	1530.9	4125.	0.4717E 02	0.233

*

C.DARWIN 3/85 STATION 007

P-DB	T-DEGC	SAL-PSU	POTRAN	DO-ML/L	POTEMP	SIGMA0	SIG4000	DYNHT-M	SNDV-M/S	DEPTH-M	SVANOM	BVFR-C/HR
10.	12.022	35.584	46.72		12.0212	27.0397	44.0986	0.010	1497.8	10.	0.1013E 03	-9.990
20.	12.021	35.584	46.70		12.0182	27.0396	44.0987	0.020	1497.9	20.	0.1016E 03	-0.178
30.	12.019	35.580	47.37		12.0147	27.0373	44.0969	0.030	1498.1	30.	0.1021E 03	-0.842
50.	11.957	35.576	51.36		11.9505	27.0471	44.1117	0.051	1498.2	50.	0.1017E 03	1.249
75.	11.726	35.553	59.20		11.7166	27.0734	44.1565	0.076	1497.8	74.	0.9987E 02	1.832
100.	11.467	35.548	66.81		11.4539	27.1193	44.2229	0.101	1497.3	99.	0.9616E 02	2.421
125.	11.395	35.535	67.27		11.3791	27.1227	44.2325	0.125	1497.4	124.	0.9649E 02	0.669
150.	11.328	35.528	67.31		11.3088	27.1303	44.2458	0.149	1497.6	149.	0.9641E 02	0.999
200.	11.199	35.510	67.95		11.1737	27.1413	44.2679	0.197	1498.0	198.	0.9664E 02	0.852
250.	11.092	35.502	67.89		11.0602	27.1563	44.2919	0.245	1498.4	248.	0.9648E 02	0.988
300.	11.002	35.493	68.04		10.9645	27.1668	44.3102	0.294	1498.9	297.	0.9672E 02	0.837
400.	10.751	35.461	68.18		10.7014	27.1891	44.3544	0.391	1499.6	396.	0.9696E 02	0.877
500.	10.345	35.414	68.30		10.2846	27.2264	44.4264	0.487	1499.8	495.	0.9552E 02	1.144
600.	10.165	35.441	68.02		10.0926	27.2812	44.4960	0.581	1500.8	594.	0.9256E 02	1.341
700.	9.521	35.411	68.46		9.4400	27.3681	44.6375	0.671	1500.1	693.	0.8581E 02	1.744
800.	9.257	35.472	68.48		9.1649	27.4613	44.7519	0.753	1500.9	792.	0.7887E 02	1.754
900.	8.743	35.493	68.53		8.6421	27.5621	44.8963	0.827	1500.7	891.	0.7063E 02	1.868
1000.	7.520	35.332	68.51		7.4161	27.6213	45.0668	0.895	1497.6	989.	0.6444E 02	1.657
1200.	5.994	35.170	68.63		5.8819	27.7024	45.2926	1.014	1494.7	1187.	0.5625E 02	1.392
1400.	4.758	35.017	68.65		4.6387	27.7301	45.4437	1.122	1492.9	1384.	0.5242E 02	1.048
1600.	4.087	34.937	68.68		3.9564	27.7411	45.5244	1.225	1493.3	1581.	0.5109E 02	0.776
1800.	3.779	34.920	68.73		3.6343	27.7601	45.5763	1.326	1495.4	1777.	0.4995E 02	0.727
2000.	3.642	34.918	68.76		3.4800	27.7741	45.6059	1.426	1498.2	1974.	0.4962E 02	0.584
2200.	3.545	34.935	68.79		3.3650	27.7990	45.6420	1.525	1501.1	2170.	0.4876E 02	0.700
2400.	3.412	34.948	68.79		3.2140	27.8238	45.6818	1.621	1504.0	2366.	0.4742E 02	0.729
2600.	3.248	34.957	68.86		3.0329	27.8475	45.7238	1.714	1506.7	2562.	0.4586E 02	0.747
2800.	3.053	34.952	68.84		2.8219	27.8630	45.7612	1.805	1509.2	2758.	0.4466E 02	0.696
3000.	2.930	34.947	68.87		2.6801	27.8718	45.7850	1.894	1512.1	2954.	0.4439E 02	0.560
3200.	2.831	34.941	68.91		2.5629	27.8770	45.8026	1.983	1515.1	3149.	0.4452E 02	0.486
3400.	2.751	34.933	68.96		2.4630	27.8798	45.8161	2.072	1518.1	3345.	0.4492E 02	0.430
3600.	2.677	34.928	68.97		2.3692	27.8834	45.8297	2.162	1521.2	3540.	0.4522E 02	0.444
3800.	2.624	34.921	69.00		2.2945	27.8845	45.8389	2.253	1524.4	3735.	0.4585E 02	0.368
4000.	2.586	34.917	69.00		2.2354	27.8857	45.8465	2.346	1527.7	3929.	0.4657E 02	0.343
4200.	2.563	34.913	68.97		2.1895	27.8867	45.8525	2.440	1531.1	4124.	0.4741E 02	0.310
4400.	2.554	34.910	68.92		2.1566	27.8870	45.8563	2.536	1534.5	4319.	0.4842E 02	0.254
4500.	2.555	34.908	68.93		2.1458	27.8865	45.8571	2.584	1536.2	4416.	0.4904E 02	0.167
4600.	2.552	34.907	68.87		2.1310	27.8868	45.8589	2.634	1537.9	4513.	0.4954E 02	0.257
4700.	2.556	34.906	68.75		2.1218	27.8869	45.8600	2.683	1539.7	4610.	0.5013E 02	0.195
4800.	2.561	34.906	68.64		2.1142	27.8874	45.8613	2.734	1541.4	4707.	0.5069E 02	0.217
4900.	2.568	34.905	68.40		2.1085	27.8868	45.8614	2.785	1543.2	4804.	0.5137E 02	0.081

*

C. DARWIN 3/85 STATION 016

P-DB	T-DEGC	SAL-PSU	POTRAN	DO-ML/L	POTEMP	SIGMA0	SIG4000	DYNHT-M	SNDV-M/S	DEPTH-M	SVANOM	BVFR-C/HR
10.	11.561	35.556	40.77		11.5595	27.1053	44.2005	0.009	1496.1	10.	0.950/E 02	-9.990
20.	11.459	35.548	42.48		11.4569	27.1185	44.2218	0.019	1495.9	20.	0.9409E 02	2.044
30.	11.447	35.548	45.24		11.4433	27.1207	44.2252	0.028	1496.1	30.	0.9414E 02	0.842
50.	11.427	35.544	48.30		11.4206	27.1220	44.2283	0.047	1496.3	50.	0.9455E 02	0.458
75.	11.275	35.530	60.91		11.2653	27.1405	44.2593	0.071	1496.2	74.	0.9345E 02	1.538
100.	11.263	35.531	60.30		11.2501	27.1435	44.2635	0.094	1496.6	99.	0.9382E 02	0.622
125.	11.208	35.521	61.98		11.1922	27.1468	44.2716	0.118	1496.8	124.	0.9416E 02	0.654
150.	11.141	35.512	64.02		11.1223	27.1526	44.2831	0.141	1496.9	149.	0.9425E 02	0.871
200.	11.061	35.521	67.62		11.0362	27.1754	44.3124	0.188	1497.5	198.	0.9336E 02	1.208
250.	10.967	35.508	67.88		10.9359	27.1838	44.3291	0.235	1498.0	248.	0.9381E 02	0.749
300.	10.835	35.488	68.00		10.7976	27.1926	44.3495	0.282	1498.3	297.	0.9418E 02	0.782
400.	10.567	35.460	68.09		10.5178	27.2214	44.4013	0.376	1499.0	396.	0.9377E 02	0.987
500.	10.115	35.400	68.16		10.0553	27.2551	44.4741	0.469	1499.0	495.	0.9258E 02	1.101
600.	9.643	35.355	68.35		9.5735	27.3019	44.5618	0.560	1498.9	594.	0.8993E 02	1.291
700.	9.745	35.495	68.26		9.6620	27.3971	44.6457	0.647	1501.1	693.	0.8344E 02	1.717
800.	8.712	35.386	68.39		8.6238	27.4808	44.8196	0.726	1498.8	792.	0.7609E 02	1.790
900.	8.801	35.539	68.44		8.6999	27.5893	44.9172	0.798	1501.0	890.	0.6821E 02	1.831
1000.	8.003	35.449	68.40		7.8958	27.6423	45.0422	0.864	1499.5	989.	0.6358E 02	1.497
1200.	5.693	35.114	68.45		5.5837	27.6958	45.3157	0.983	1493.5	1186.	0.5599E 02	1.358
1400.	4.422	34.968	68.55		4.3061	27.7279	45.4756	1.090	1491.4	1383.	0.5147E 02	1.091
1600.	3.890	34.919	68.64		3.7622	27.7465	45.5498	1.192	1492.5	1580.	0.4981E 02	0.797
1800.	3.693	34.922	68.68		3.5492	27.7706	45.5954	1.290	1495.0	1777.	0.4860E 02	0.729
2000.	3.555	34.939	68.66		3.3945	27.7991	45.6390	1.386	1497.8	1973.	0.4710E 02	0.753
2200.	3.402	34.949	68.74		3.2239	27.8238	45.6808	1.478	1500.5	2170.	0.4573E 02	0.733
2400.	3.190	34.955	68.61		2.9962	27.8495	45.7296	1.568	1503.0	2366.	0.4378E 02	0.788
2600.	3.026	34.952	68.48		2.8152	27.8640	45.7630	1.654	1505.7	2562.	0.4293E 02	0.648
2800.	2.881	34.947	68.84		2.6530	27.8746	45.7906	1.740	1508.5	2758.	0.4242E 02	0.593
3000.	2.764	34.941	68.87		2.5184	27.8809	45.8112	1.824	1511.4	2953.	0.4235E 02	0.516
3200.	2.642	34.929	68.81		2.3786	27.8839	45.8292	1.909	1514.3	3149.	0.4242E 02	0.484
3400.	2.579	34.923	68.85		2.2952	27.8858	45.8401	1.994	1517.4	3344.	0.4295E 02	0.385
3600.	2.505	34.914	68.80		2.2011	27.8867	45.8512	2.081	1520.5	3539.	0.4341E 02	0.396

*

C.DARWIN 9A/85 STATION 001

P-DB	T-DEGC	SAL-PSU	POTRAN	DO-ML/L	POTEMP	SIGMA0	SIG4000	DYNHT-M	SNDV-M/S	DEPTH-M	SVANOM	BVFR-C/HR
10.	22.414	36.824		4.85	22.4125	25.4888	41.8464	0.025	1530.1	10.	0.2487E 03	-9.990
20.	22.415	36.815		4.98	22.4109	25.4820	41.8400	0.050	1530.3	20.	0.2498E 03	-1.459
30.	22.416	36.811		4.95	22.4103	25.4792	41.8373	0.075	1530.4	30.	0.2505E 03	-0.943
50.	22.412	36.805		4.92	22.4017	25.4772	41.8359	0.125	1530.7	50.	0.2516E 03	-0.557
75.	19.882	36.433		5.36	19.8683	25.8913	42.4015	0.186	1524.0	74.	0.2131E 03	7.256
100.	18.365	36.516		5.22	18.3472	26.3479	42.9478	0.234	1520.2	99.	0.1705E 03	7.613
125.	17.431	36.384		4.93	17.4100	26.4792	43.1412	0.275	1517.8	124.	0.1589E 03	4.102
150.	17.140	36.370		4.84	17.1153	26.5398	43.2210	0.314	1517.3	149.	0.1540E 03	2.784
200.	16.842	36.372		4.90	16.8089	26.6145	43.3155	0.389	1517.2	199.	0.1486E 03	2.185
250.	15.911	36.185		4.76	15.8710	26.6903	43.4579	0.462	1515.0	248.	0.1429E 03	2.245
300.	15.076	36.033		4.73	15.0294	26.7628	43.5916	0.532	1513.1	298.	0.1373E 03	2.205
400.	13.468	35.790		4.38	13.4110	26.9216	43.8715	0.663	1509.3	397.	0.1244E 03	2.318
500.	12.297	35.642		4.43	12.2299	27.0442	44.0857	0.782	1506.9	496.	0.1147E 03	2.053
600.	11.385	35.546		4.32	11.3075	27.1445	44.2596	0.893	1505.3	595.	0.1069E 03	1.872
700.	10.672	35.508		4.15	10.5848	27.2466	44.4199	0.996	1504.4	694.	0.982E 02	1.882
800.	9.999	35.504		3.96	9.9030	27.3629	44.5915	1.090	1503.6	793.	0.8935E 02	2.004
900.	9.532	35.538		3.97	9.4261	27.4702	44.7371	1.175	1503.6	892.	0.8076E 02	1.913
1000.	8.930	35.535		4.17	8.8163	27.5676	44.8857	1.251	1503.1	991.	0.7261E 02	1.865
1200.	8.120	35.569		4.49	7.9883	27.7231	45.1114	1.383	1503.4	1188.	0.6023E 02	1.666
1400.	6.989	35.450		4.85	6.8457	27.7955	45.2887	1.497	1502.3	1386.	0.5382E 02	1.306
1600.	5.634	35.282		5.27	5.4849	27.8411	45.4653	1.598	1500.1	1583.	0.4791E 02	1.236
1800.	4.877	35.185		5.49	4.7169	27.8547	45.5555	1.692	1500.3	1780.	0.4615E 02	0.864
2000.	4.246	35.101		5.63	4.0745	27.8592	45.6257	1.783	1500.9	1977.	0.4504E 02	0.762
2200.	3.789	35.048		5.69	3.6051	27.8650	45.6801	1.872	1502.3	2173.	0.4410E 02	0.712
2400.	3.440	35.012		5.68	3.2419	27.8721	45.7253	1.959	1504.2	2370.	0.4322E 02	0.684
2600.	3.149	34.982		5.75	2.9360	27.8768	45.7624	2.045	1506.3	2566.	0.4257E 02	0.634
2800.	2.953	34.963		5.73	2.7235	27.8807	45.7889	2.130	1508.8	2762.	0.4236E 02	0.555
3000.	2.815	34.949		5.72	2.5679	27.8836	45.8084	2.215	1511.6	2958.	0.4248E 02	0.489
3200.	2.689	34.936		5.68	2.4245	27.8855	45.8258	2.300	1514.5	3154.	0.4264E 02	0.472
3400.	2.600	34.926		5.64	2.3159	27.8866	45.8386	2.385	1517.5	3349.	0.4305E 02	0.415
3600.	2.542	34.916		5.60	2.2378	27.8851	45.8457	2.472	1520.7	3545.	0.4388E 02	0.310
3800.	2.494	34.911		5.62	2.1688	27.8865	45.8546	2.561	1523.9	3740.	0.4447E 02	0.363
4000.	2.461	34.906		5.61	2.1135	27.8870	45.8610	2.650	1527.2	3935.	0.4524E 02	0.317
4200.	2.438	34.901		5.60	2.0679	27.8867	45.8658	2.742	1530.5	4130.	0.4613E 02	0.277
4400.	2.421	34.897		5.62	2.0282	27.8871	45.8705	2.835	1533.9	4325.	0.4701E 02	0.283
4500.	2.420	34.895		5.61	2.0150	27.8866	45.8715	2.882	1535.6	4422.	0.4757E 02	0.183
4600.	2.419	34.894		5.64	2.0019	27.8869	45.8732	2.930	1537.3	4519.	0.4807E 02	0.247
4700.	2.424	34.893		5.64	1.9943	27.8861	45.8733	2.978	1539.1	4617.	0.4872E 02	0.079
4800.	2.428	34.892		5.65	1.9860	27.8861	45.8741	3.027	1540.8	4714.	0.4930E 02	0.180
4900.	2.436	34.891		5.64	1.9815	27.8856	45.8742	3.077	1542.6	4811.	0.4996E 02	0.057
5000.	2.446	34.891		5.66	1.9782	27.8861	45.8751	3.127	1544.4	4908.	0.5054E 02	0.179
5100.	2.456	34.891		5.68	1.9748	27.8861	45.8754	3.178	1546.2	5005.	0.5119E 02	0.114
5200.	2.464	34.890		5.67	1.9703	27.8858	45.8756	3.229	1548.0	5102.	0.5184E 02	0.107

C. DARWIN 9A/85 STATION 002

P-DB	T-DEGC	SAL-PSU	POTRAN	DO-ML/L	POTEMP	SIGMA0	SIG4000	DYNHT-M	SNDV-M/S	DEPTH-M	SVANOM	BVFR-C/HR
10.	22.201	36.685		4.84	22.1985	25.4442	41.8166	0.025	1529.4	10.	0.2529E 03	-9.990
20.	22.203	36.680		4.85	22.1985	25.4404	41.8129	0.051	1529.6	20.	0.2538E 03	-1.108
30.	22.245	36.693		4.91	22.2386	25.4387	41.8087	0.076	1529.9	30.	0.2544E 03	-0.724
50.	22.267	36.700		4.86	22.2569	25.4390	41.8079	0.127	1530.3	50.	0.2552E 03	0.209
75.	19.418	36.325		5.07	19.4046	25.9310	42.4712	0.189	1522.6	74.	0.2092E 03	7.908
100.	18.026	36.324		4.73	18.0086	26.2857	42.9114	0.236	1519.0	99.	0.1764E 03	6.714
125.	17.666	36.314		4.61	17.6446	26.3679	43.0167	0.321	1518.4	124.	0.1695E 03	3.236
150.	17.203	36.254		4.60	17.1782	26.4352	43.1152	0.379	1517.4	149.	0.1639E 03	2.941
200.	16.436	36.156		4.60	16.4039	26.5441	43.2770	0.400	1515.8	199.	0.1552E 03	2.653
250.	15.673	36.049		4.57	15.6334	26.6396	43.4267	0.476	1514.1	248.	0.1475E 03	2.498
300.	15.043	35.961		4.59	14.9965	26.7151	43.5480	0.548	1512.9	298.	0.1418E 03	2.232
400.	13.888	35.821		4.30	13.8295	26.8589	43.7777	0.684	1510.7	397.	0.1306E 03	2.190
500.	12.666	35.658		4.31	12.5967	26.9845	43.9979	0.810	1508.1	496.	0.1207E 03	2.079
600.	11.596	35.544		4.23	11.5175	27.1040	44.2028	0.926	1506.0	595.	0.1110E 03	2.041
700.	10.683	35.476		4.07	10.5959	27.2199	44.3932	1.031	1504.4	694.	0.1014E 03	2.016
800.	9.851	35.446		3.96	9.7561	27.3423	44.5845	1.127	1503.0	793.	0.9102E 02	2.073
900.	9.346	35.489		4.00	9.2411	27.4624	44.7461	1.213	1502.9	892.	0.8112E 02	2.021
1000.	8.695	35.483		4.08	8.5832	27.5633	44.9028	1.290	1502.2	991.	0.7249E 02	1.905
1200.	7.532	35.447		4.39	7.4059	27.7133	45.1563	1.421	1501.1	1188.	0.5955E 02	1.685
1400.	6.431	35.356		4.93	6.2942	27.7960	45.3423	1.532	1500.0	1386.	0.5196E 02	1.364
1600.	5.418	35.229		5.21	5.2714	27.8251	45.4711	1.632	1499.2	1583.	0.4857E 02	1.036
1800.	4.713	35.152		5.36	4.5550	27.8473	45.5649	1.727	1499.5	1780.	0.4610E 02	0.922
2000.	4.185	35.085		5.45	4.0146	27.8528	45.6257	1.818	1500.6	1977.	0.4532E 02	0.718
2200.	3.740	35.035		5.57	3.5570	27.8596	45.6800	1.907	1502.1	2173.	0.4433E 02	0.717
2400.	3.399	34.999		5.62	3.2013	27.8652	45.7229	1.995	1504.0	2370.	0.4360E 02	0.661
2600.	3.150	34.975		5.65	2.9376	27.8711	45.7567	2.082	1506.3	2566.	0.4310E 02	0.613
2800.	2.964	34.958		5.65	2.7348	27.8761	45.7832	2.168	1508.8	2762.	0.4286E 02	0.560
3000.	2.814	34.945		5.65	2.5671	27.8799	45.8049	2.253	1511.6	2958.	0.4281E 02	0.518
3200.	2.690	34.933		5.63	2.4252	27.8829	45.8232	2.339	1514.5	3154.	0.4289E 02	0.486
3400.	2.619	34.925		5.64	2.3344	27.8846	45.8347	2.425	1517.6	3350.	0.4339E 02	0.395
3600.	2.561	34.919		5.62	2.2564	27.8858	45.8443	2.513	1520.7	3545.	0.4399E 02	0.369
3800.	2.505	34.912		5.62	2.1798	27.8865	45.8533	2.601	1523.9	3740.	0.4458E 02	0.366
4000.	2.475	34.908		5.62	2.1276	27.8874	45.8599	2.691	1527.2	3935.	0.4534E 02	0.319
4200.	2.453	34.903		5.62	2.0826	27.8878	45.8653	2.783	1530.6	4130.	0.4619E 02	0.293
4400.	2.435	34.900		5.64	2.0423	27.8885	45.8703	2.876	1534.0	4325.	0.4704E 02	0.290
4500.	2.422	34.897		5.63	2.0171	27.8882	45.8728	2.923	1535.6	4422.	0.4745E 02	0.299
4600.	2.413	34.896		5.64	1.9968	27.8887	45.8755	2.971	1537.3	4519.	0.4785E 02	0.305
4700.	2.410	34.894		5.64	1.9810	27.8882	45.8768	3.019	1539.0	4617.	0.4838E 02	0.221
4800.	2.414	34.893		5.65	1.9724	27.8884	45.8779	3.068	1540.8	4714.	0.4893E 02	0.200
4900.	2.419	34.893		5.66	1.9653	27.8884	45.8787	3.117	1542.5	4811.	0.4951E 02	0.177
5000.	2.424	34.891		5.65	1.9573	27.8881	45.8792	3.167	1544.3	4908.	0.5012E 02	0.148

*

C. DARWIN 9A/85 STATION 003

P-DB	T-DEGC	SAL-PSU	POTRAN	DO-ML/L	POTEMP	SIGMAO	SIG4000	DYNHT-M	SNDV-M/S	DEPTH-M	SVANOM	BVFR-C/HR
10.	22.101	36.728		4.93	22.0986	25.5051	41.8819	0.025	1529.2	10.	0.2472E 03	-0.990
20.	22.104	36.713		4.93	22.0999	25.4933	41.8704	0.049	1529.3	20.	0.2487E 03	-1.933
30.	22.105	36.699		4.94	22.0989	25.4829	41.8604	0.074	1529.5	30.	0.2502E 03	-1.811
50.	22.108	36.689		4.86	22.0981	25.4753	41.8531	0.125	1529.8	50.	0.2517E 03	-1.090
75.	19.472	36.486		5.15	19.4587	26.0396	42.5728	0.185	1522.9	74.	0.1990E 03	8.464
100.	18.350	36.468		4.84	18.3328	26.3147	42.9167	0.231	1520.1	99.	0.1737E 03	5.913
125.	17.499	36.399		4.69	17.4782	26.4740	43.1113	0.272	1518.0	124.	0.1594E 03	4.511
150.	16.843	36.299		4.61	16.8183	26.5559	43.2581	0.311	1516.3	149.	0.1524E 03	3.249
200.	16.260	36.218		4.61	16.2280	26.6334	43.3763	0.385	1515.3	199.	0.1467E 03	2.238
250.	15.516	36.105		4.56	15.4764	26.7185	43.5148	0.457	1513.7	248.	0.1400E 03	2.362
300.	14.826	35.988		4.48	14.7803	26.7836	43.6308	0.526	1512.2	298.	0.1352E 03	2.085
400.	13.759	35.831		4.50	13.7013	26.8934	43.8211	0.657	1510.3	397.	0.1273E 03	1.925
500.	12.424	35.640		4.34	12.3565	27.0175	44.0495	0.780	1507.3	496.	0.1173E 03	2.077
600.	11.399	35.549		4.23	11.3215	27.1445	44.2584	0.892	1505.3	595.	0.1069E 03	2.095
700.	10.450	35.486		4.08	10.3644	27.2687	44.4602	0.994	1503.6	694.	0.9652E 02	2.084
800.	9.700	35.465		3.90	9.6054	27.3829	44.6370	1.086	1502.5	793.	0.8697E 02	1.999
900.	8.888	35.435		4.00	8.7867	27.4936	44.8172	1.168	1501.2	892.	0.7730E 02	1.997
1000.	8.610	35.479		4.00	8.4983	27.5738	44.9206	1.243	1501.8	991.	0.7132E 02	1.648
1200.	7.730	35.485		4.35	7.6027	27.7146	45.1392	1.374	1501.9	1188.	0.5996E 02	1.606
1400.	6.633	35.377		4.76	6.4937	27.7862	45.3135	1.487	1500.8	1386.	0.5353E 02	1.296
1600.	5.596	35.259		5.20	5.4473	27.8270	45.4554	1.590	1499.9	1583.	0.4907E 02	1.126
1800.	4.827	35.169		5.27	4.6676	27.8477	45.5537	1.685	1500.0	1780.	0.4657E 02	0.931
2000.	4.259	35.108		5.45	4.0872	27.8627	45.6278	1.777	1501.0	1977.	0.4478E 02	0.834
2200.	3.789	35.053		5.54	3.6047	27.8688	45.6839	1.866	1502.3	2173.	0.4375E 02	0.724
2400.	3.459	35.015		5.58	3.2606	27.8725	45.7237	1.953	1504.2	2370.	0.4330E 02	0.628
2600.	3.190	34.987		5.63	2.9763	27.8768	45.7580	2.039	1506.5	2566.	0.4284E 02	0.609
2800.	2.988	34.967		5.62	2.7582	27.8811	45.7855	2.125	1509.0	2762.	0.4258E 02	0.566
3000.	2.833	34.953		5.62	2.5858	27.8851	45.8079	2.210	1511.7	2958.	0.4249E 02	0.526
3200.	2.735	34.943		5.60	2.4686	27.8869	45.8223	2.295	1514.7	3154.	0.4288E 02	0.431
3400.	2.652	34.923		5.59	2.3664	27.8799	45.8266	2.381	1517.7	3350.	0.4409E 02	0.196
3600.	2.580	34.914		5.58	2.2749	27.8806	45.8373	2.470	1520.8	3545.	0.4462E 02	0.387
3800.	2.538	34.909		5.59	2.2112	27.8817	45.8453	2.560	1524.1	3740.	0.4530E 02	0.345
4000.	2.504	34.920		5.58	2.1553	27.8950	45.8642	2.650	1527.4	3935.	0.4495E 02	0.545
4200.	2.479	34.907		5.60	2.1077	27.8883	45.8630	2.741	1530.7	4130.	0.4641E 02	-0.135
4400.	2.462	34.901		5.59	2.0677	27.8872	45.8663	2.835	1534.1	4325.	0.4743E 02	0.240
4500.	2.455	34.897		5.60	2.0488	27.8851	45.8664	2.883	1535.8	4422.	0.4808E 02	0.098
4600.	2.448	34.892		5.61	2.0306	27.8826	45.8660	2.931	1537.5	4519.	0.4876E 02	-0.073
4700.	2.444	34.894		5.61	2.0142	27.8859	45.8709	2.980	1539.2	4617.	0.4897E 02	0.404
4800.	2.441	34.889		5.62	1.9986	27.8826	45.8695	3.030	1540.9	4714.	0.4974E 02	-0.183
4900.	2.443	34.887		5.62	1.9878	27.8826	45.8706	3.079	1542.6	4811.	0.5029E 02	0.208
5000.	2.444	34.887		5.62	1.9766	27.8828	45.8721	3.130	1544.4	4908.	0.5081E 02	0.234
5100.	2.450	34.886		5.64	1.9695	27.8825	45.8725	3.181	1546.1	5005.	0.5143E 02	0.139
5200.	2.458	34.889		5.64	1.9642	27.8856	45.8761	3.232	1547.9	5102.	0.5178E 02	0.340
5300.	2.468	34.885		5.66	1.9608	27.8828	45.8738	3.284	1549.7	5199.	0.5266E 02	-0.258
5400.	2.479	34.889		5.66	1.9584	27.8864	45.8775	3.337	1551.5	5296.	0.5300E 02	0.345
5500.	2.488	34.884		5.67	1.9539	27.8826	45.8743	3.390	1553.3	5393.	0.5396E 02	-0.307

C.DARWIN 9A/85 STATION 004

P-DB	T-DEGC	SAL-PSU	POTRAN	DO-ML/L	POTEMP	SIGMA0	SIG4000	DYNHT-M	SNDV-M/S	DEPTH-M	SVANOM	BVFR-C/HR
10.	21.506	36.689		5.04	21.5045	25.6423	42.0529	0.023	1527.6	10.	0.2341E 03	-9.990
20.	21.519	36.667		5.04	21.5152	25.6226	42.0330	0.047	1527.8	20.	0.2364E 03	-2.497
30.	21.520	36.657		5.02	21.5142	25.6154	42.0261	0.070	1527.9	30.	0.2375E 03	-1.513
50.	21.525	36.645		4.99	21.5152	25.6061	42.0171	0.118	1528.3	50.	0.2393E 03	-1.208
75.	20.017	36.516		5.09	20.0027	25.9189	42.4193	0.178	1524.5	74.	0.2105E 03	6.302
100.	18.073	36.486		4.80	18.0561	26.3981	43.0168	0.222	1519.3	99.	0.1657E 03	7.804
125.	17.850	36.528		4.73	17.8281	26.4865	43.1185	0.263	1519.2	124.	0.1583E 03	3.350
150.	17.701	36.555		4.66	17.6749	26.5452	43.1862	0.302	1519.2	149.	0.1536E 03	2.731
200.	17.276	36.487		4.72	17.2426	26.5987	43.2689	0.378	1518.7	199.	0.1503E 03	1.862
250.	16.505	36.321		4.60	16.4642	26.6567	43.3815	0.453	1517.0	248.	0.1463E 03	1.967
300.	15.430	36.108		4.45	15.3832	26.7416	43.5442	0.524	1514.3	298.	0.1395E 03	2.392
400.	13.622	35.815		4.34	13.5647	26.9093	43.8473	0.656	1509.8	397.	0.1257E 03	2.386
500.	12.325	35.645		4.34	12.2577	27.0411	44.0804	0.776	1507.0	496.	0.1150E 03	2.132
600.	11.366	35.546		4.27	11.2882	27.1485	44.2651	0.887	1505.2	595.	0.1065E 03	1.936
700.	10.508	35.493		4.10	10.4214	27.2639	44.4507	0.989	1503.8	694.	0.9706E 02	2.006
800.	9.766	35.488		4.09	9.6713	27.3897	44.6378	1.081	1502.8	793.	0.8645E 02	2.087
900.	8.985	35.477		3.96	8.8824	27.5112	44.8254	1.162	1501.6	892.	0.7586E 02	2.075
1000.	8.474	35.495		4.11	8.3682	27.6064	44.9640	1.234	1501.4	991.	0.6800E 02	1.829
1200.	7.428	35.447		4.45	7.3029	27.7283	45.1805	1.359	1500.7	1188.	0.5787E 02	1.535
1400.	6.345	35.345		4.91	6.2081	27.7982	45.3528	1.469	1499.7	1386.	0.5147E 02	1.286
1600.	5.353	35.230		5.15	5.2068	27.8336	45.4858	1.567	1498.9	1583.	0.4753E 02	1.077
1800.	4.636	35.145		5.31	4.4789	27.8499	45.5752	1.660	1499.2	1780.	0.4553E 02	0.875
2000.	4.137	35.088		5.43	3.9674	27.8594	45.6370	1.750	1500.4	1977.	0.4448E 02	0.745
2200.	3.682	35.036		5.55	3.4994	27.8657	45.6919	1.838	1501.8	2173.	0.4345E 02	0.718
2400.	3.361	35.001		5.56	3.1642	27.8710	45.7325	1.924	1503.8	2370.	0.4285E 02	0.642
2600.	3.126	34.981		5.57	2.9140	27.8776	45.7655	2.010	1506.2	2566.	0.4236E 02	0.609
2800.	2.939	34.962		5.57	2.7104	27.8812	45.7907	2.094	1508.7	2762.	0.4223E 02	0.541
3000.	2.803	34.949		5.57	2.5568	27.8842	45.8102	2.179	1511.6	2958.	0.4234E 02	0.489
3200.	2.696	34.937		5.55	2.4307	27.8858	45.8253	2.264	1514.5	3154.	0.4267E 02	0.440

*

C.DARWIN 9A/85 STATION 005

P-DB	T-DECC	SAL-PSU	POTRAN	DO-ML/L	POTEMP	SIGMA0	SIG4000	DYNHT-M	SNDV-M/S	DEPTH-M	SVANOM	BVFR-C/HR
10.	19.932	36.334		5.09	19.9297	25.7999	42.3088	0.022	1522.9	10.	0.2191E 03	-9.990
20.	19.932	36.336		5.09	19.9280	25.8016	42.3106	0.044	1523.1	20.	0.2193E 03	0.734
30.	19.936	36.335		5.07	19.9306	25.8001	42.3089	0.066	1523.3	30.	0.2199E 03	-0.701
50.	19.914	36.331		5.05	19.9052	25.8036	42.3140	0.110	1523.5	50.	0.2204E 03	0.749
75.	16.542	36.137		5.41	16.5302	26.5003	43.2253	0.159	1514.0	74.	0.1549E 03	9.407
100.	15.172	35.982		5.34	15.1569	26.6954	43.5166	0.196	1510.0	99.	0.1370E 03	4.994
125.	14.491	35.931		5.18	14.4727	26.8062	43.6764	0.228	1508.2	124.	0.1272E 03	3.767
150.	14.208	35.903		5.10	14.1861	26.8465	43.7376	0.260	1507.7	149.	0.1241E 03	2.277
200.	13.528	35.804		5.12	13.4990	26.9144	43.8575	0.321	1506.2	198.	0.1190E 03	2.108
250.	12.978	35.721		5.18	12.9432	26.9637	43.9497	0.379	1505.1	248.	0.1156E 03	1.810
300.	12.570	35.672		4.98	12.5294	27.0088	44.0270	0.436	1504.5	298.	0.1126E 03	1.732
400.	11.837	35.578		4.85	11.7845	27.0801	44.1573	0.546	1503.6	397.	0.1081E 03	1.556
500.	11.216	35.522		4.49	11.1525	27.1545	44.2824	0.652	1503.0	496.	0.1032E 03	1.595
600.	10.745	35.516		4.35	10.6701	27.2375	44.4037	0.752	1503.0	595.	0.9740E 02	1.672
700.	10.302	35.551		4.18	10.2163	27.3456	44.5473	0.845	1503.1	694.	0.8911E 02	1.899
800.	11.070	35.866		4.18	10.9673	27.4569	44.5900	0.931	1507.9	793.	0.8240E 02	1.758
900.	10.834	35.908		4.16	10.7196	27.5346	44.6862	1.011	1508.8	891.	0.7727E 02	1.608
1000.	10.705	35.975		4.13	10.5777	27.6120	44.7730	1.085	1510.0	990.	0.7230E 02	1.587
1200.	9.976	35.968		4.26	9.8279	27.7387	44.9605	1.220	1510.8	1188.	0.6366E 02	1.509
1400.	7.978	35.650		4.71	7.8247	27.8111	45.2114	1.339	1506.3	1385.	0.5553E 02	1.449
1600.	6.259	35.381		5.15	6.1015	27.8409	45.4043	1.444	1502.7	1582.	0.5029E 02	1.215
1800.	5.044	35.198		5.48	4.8813	27.8463	45.5308	1.541	1500.9	1779.	0.4763E 02	0.964
2000.	4.501	35.129		5.61	4.3258	27.8538	45.5946	1.635	1502.0	1976.	0.4677E 02	0.745
2200.	3.954	35.061		5.70	3.7670	27.8591	45.6575	1.727	1503.0	2172.	0.4553E 02	0.758
2400.	3.534	35.013		5.78	3.3340	27.8640	45.7077	1.817	1504.6	2369.	0.4451E 02	0.707
2600.	3.196	34.980		5.77	2.9826	27.8706	45.7514	1.905	1506.5	2565.	0.4344E 02	0.692
2800.	2.985	34.961		5.77	2.7549	27.8765	45.7815	1.991	1508.9	2761.	0.4296E 02	0.597
3000.	2.843	34.950		5.73	2.5958	27.8818	45.8036	2.077	1511.7	2957.	0.4286E 02	0.529
3200.	2.731	34.940		5.67	2.4654	27.8851	45.8209	2.163	1514.6	3153.	0.4302E 02	0.475
3400.	2.666	34.932		5.64	2.3799	27.8859	45.8309	2.250	1517.8	3348.	0.4367E 02	0.367
3600.	2.611	34.925		5.63	2.3043	27.8865	45.8398	2.338	1521.0	3543.	0.4436E 02	0.352
3800.	2.556	34.917		5.62	2.2286	27.8865	45.8480	2.427	1524.1	3738.	0.4504E 02	0.349
4000.	2.521	34.911		5.62	2.1719	27.8865	45.8542	2.518	1527.4	3933.	0.4587E 02	0.309
4200.	2.485	34.905		5.63	2.1136	27.8865	45.8606	2.611	1530.7	4128.	0.4663E 02	0.321
4400.	2.456	34.899		5.65	2.0624	27.8855	45.8652	2.705	1534.0	4323.	0.4752E 02	0.281
4500.	2.445	34.897		5.66	2.0392	27.8864	45.8686	2.752	1535.7	4420.	0.4786E 02	0.342
4600.	2.442	34.896		5.67	2.0244	27.8863	45.8701	2.801	1537.4	4517.	0.4838E 02	0.231
4700.	2.447	34.895		5.68	2.0173	27.8859	45.8705	2.849	1539.2	4615.	0.4900E 02	0.128
4800.	2.452	34.893		5.67	2.0089	27.8854	45.8710	2.899	1540.9	4712.	0.4962E 02	0.144
4900.	2.461	34.892		5.67	2.0059	27.8848	45.8708	2.949	1542.7	4809.	0.5031E 02	-0.076
5000.	2.471	34.892		5.68	2.0023	27.8850	45.8714	2.999	1544.5	4906.	0.5094E 02	0.144
5100.	2.482	34.891		5.68	2.0005	27.8845	45.8710	3.051	1546.3	5003.	0.5164E 02	-0.087
5200.	2.495	34.891		5.70	1.9997	27.8844	45.8710	3.102	1548.1	5100.	0.5233E 02	0.
5300.	2.508	34.889		5.66	1.9993	27.8830	45.8697	3.155	1549.9	5197.	0.5314E 02	-0.200

C. DARWIN 9A/85 STATION 006

P-DB	T-DEGC	SAL-PSU	POTRAN	DO-MI/L	POTEMP	SIGMA0	SIG4000	DYNH-T-M	SNDV-M/S	DEPTH-M	SVANOM	RVFR-C/HR
10.	17.827	36.039		5.29	17.8255	26.1124	42.7565	0.019	1516.6	10.	0.1894E 03	-9.990
20.	17.826	36.039		5.30	17.8223	26.1129	42.7572	0.038	1516.8	20.	0.1897E 03	0.394
30.	17.842	36.041		5.24	17.8366	26.1111	42.7544	0.057	1517.0	30.	0.1903E 03	-0.757
50.	17.844	36.039		5.26	17.8358	26.1102	42.7536	0.095	1517.3	50.	0.1911E 03	-0.380
75.	16.416	35.871		5.41	16.4036	26.3253	43.0653	0.142	1513.3	74.	0.1714E 03	5.233
100.	13.535	35.713		5.32	13.5204	26.8399	43.7838	0.176	1504.4	99.	0.1230E 03	8.101
125.	13.104	35.689		5.25	13.0868	26.9102	43.8864	0.206	1503.4	124.	0.1170E 03	3.000
150.	12.837	35.673		5.26	12.8165	26.9525	43.9491	0.234	1502.9	149.	0.1137E 03	2.332
200.	12.373	35.624		5.20	12.3461	27.0073	44.0406	0.290	1502.1	198.	0.1098E 03	1.891
250.	12.101	35.594		5.15	12.0683	27.0382	44.0933	0.345	1502.0	248.	0.1081E 03	1.425
300.	11.811	35.558		5.09	11.7721	27.0671	44.1458	0.398	1501.8	297.	0.1066E 03	1.391
400.	11.407	35.523		5.00	11.3558	27.1176	44.2295	0.504	1502.0	397.	0.1043E 03	1.301
500.	11.012	35.507		4.76	10.9494	27.1805	44.3248	0.607	1502.3	496.	0.1005E 03	1.452
600.	10.832	35.566		4.53	10.7572	27.2610	44.4189	0.704	1503.4	595.	0.9531E 02	1.613
700.	10.929	35.740		4.34	10.8400	27.3814	44.5280	0.795	1505.6	693.	0.8668E 02	1.935
800.	11.004	35.856		4.26	10.9019	27.4612	44.5997	0.879	1507.6	792.	0.8189E 02	1.572
900.	10.746	35.918		4.23	10.6323	27.5578	44.7160	0.958	1508.5	891.	0.7494E 02	1.786
1000.	10.241	35.896		4.21	10.1173	27.6319	44.8322	1.031	1508.3	990.	0.6947E 02	1.635
1200.	10.349	36.087		4.34	10.1980	27.7674	44.9559	1.161	1512.2	1187.	0.6195E 02	1.445
1400.	8.169	35.703		4.67	8.0132	27.8244	45.2068	1.278	1507.1	1385.	0.5489E 02	1.392
1600.	5.797	35.305		5.14	5.6454	27.8388	45.4471	1.381	1500.8	1582.	0.4875E 02	1.272
1800.	4.944	35.173		5.38	4.7826	27.8381	45.5329	1.478	1500.5	1778.	0.4795E 02	0.769
2000.	4.308	35.100		5.50	4.1351	27.8512	45.6117	1.572	1501.2	1975.	0.4606E 02	0.846
2200.	3.679	35.020		5.62	3.4969	27.8538	45.6807	1.662	1501.8	2172.	0.4453E 02	0.780
2400.	3.424	35.000		5.65	3.2260	27.8640	45.7192	1.750	1504.1	2368.	0.4385E 02	0.652
2600.	3.186	34.980		5.68	2.9730	27.8715	45.7533	1.837	1506.4	2564.	0.4329E 02	0.622
2800.	2.999	34.964		5.71	2.7689	27.8776	45.7810	1.923	1509.0	2760.	0.4297E 02	0.575
3000.	2.872	34.952		5.75	2.6245	27.8807	45.7995	2.009	1511.9	2956.	0.4317E 02	0.478
3200.	2.775	34.943		5.70	2.5083	27.8839	45.8151	2.096	1514.8	3151.	0.4347E 02	0.452
3400.	2.701	34.934		5.69	2.4150	27.8845	45.8258	2.184	1517.9	3347.	0.4409E 02	0.378
3600.	2.639	34.927		5.66	2.3320	27.8861	45.8364	2.272	1521.1	3542.	0.4464E 02	0.388
3800.	2.595	34.920		5.64	2.2666	27.8863	45.8437	2.362	1524.3	3737.	0.4543E 02	0.327
4000.	2.557	34.915		5.64	2.2073	27.8865	45.8504	2.454	1527.6	3932.	0.4622E 02	0.322
4200.	2.535	34.910		5.64	2.1629	27.8863	45.8550	2.547	1530.9	4127.	0.4716E 02	0.275
4400.	2.518	34.905		5.66	2.1227	27.8859	45.8590	2.643	1534.3	4321.	0.4814E 02	0.261
4500.	2.508	34.903		5.66	2.1009	27.8860	45.8615	2.691	1536.0	4419.	0.4858E 02	0.291
4600.	2.504	34.902		5.67	2.0844	27.8863	45.8636	2.740	1537.7	4516.	0.4905E 02	0.275
4700.	2.506	34.900		5.67	2.0740	27.8858	45.8642	2.789	1539.5	4613.	0.4967E 02	0.157
4800.	2.511	34.899		5.69	2.0663	27.8857	45.8650	2.839	1541.2	4710.	0.5027E 02	0.167
4900.	2.518	34.899		5.67	2.0604	27.8862	45.8662	2.890	1543.0	4807.	0.5085E 02	0.203
5000.	2.528	34.898		5.69	2.0573	27.8855	45.8658	2.941	1544.7	4904.	0.5156E 02	-0.093
5100.	2.537	34.897		5.69	2.0533	27.8853	45.8660	2.993	1546.5	5001.	0.5223E 02	0.098
5200.	2.547	34.896		5.71	2.0505	27.8846	45.8656	3.045	1548.3	5098.	0.5296E 02	-0.098
5300.	2.557	34.896		5.74	2.0473	27.8846	45.8660	3.098	1550.1	5195.	0.5361E 02	0.124
5400.	2.569	34.896		5.72	2.0451	27.8846	45.8660	3.152	1551.9	5292.	0.5429E 02	0.105

C.DAR. N 9A/85 STATION 007

P-DB	T-DEGC	SAL-PSU	POTRAN	DO-ML/L	POTEMP	SIGMAO	SIG4000	DYNHT-M	SNDV-M/S	DEPTH-M	SVANOM	BVFR-C/HR
10.	17.885	36.065		5.31	17.8832	26.1181	42.7580	0.019	1516.8	10.	0.1888E 03	-9.990
20.	17.886	36.065		5.29	17.8827	26.1184	42.7582	0.038	1517.0	20.	0.1892E 03	0.260
30.	17.889	36.068		5.28	17.8842	26.1199	42.7596	0.057	1517.2	30.	0.1894E 03	0.698
50.	17.900	36.082		5.20	17.8919	26.1286	42.7675	0.095	1517.5	50.	0.1894E 03	1.175
75.	17.520	36.021		5.19	17.5078	26.1766	42.8412	0.142	1516.8	74.	0.1857E 03	2.473
100.	14.410	35.894		5.17	14.3947	26.7943	43.6709	0.178	1507.5	99.	0.1275E 03	8.870
125.	13.977	35.862		5.04	13.9590	26.8630	43.7714	0.209	1506.5	124.	0.1217E 03	2.969
150.	13.643	35.826		5.01	13.6220	26.9063	43.8399	0.238	1505.8	149.	0.1183E 03	2.363
200.	13.081	35.746		4.92	13.0530	26.9607	43.9380	0.297	1504.6	198.	0.1145E 03	1.889
250.	12.509	35.673		4.79	12.4751	27.0204	44.0426	0.353	1503.5	248.	0.1100E 03	1.985
300.	12.209	35.635		4.77	12.1690	27.0505	44.0968	0.408	1503.2	297.	0.1084E 03	1.419
400.	11.598	35.567		4.82	11.5458	27.1167	44.2127	0.514	1502.7	397.	0.1045E 03	1.496
500.	11.192	35.561		4.55	11.1287	27.1894	44.3181	0.616	1503.0	496.	0.9990E 02	1.556
600.	11.082	35.632		4.37	11.0055	27.2671	44.4036	0.714	1504.3	595.	0.9505E 02	1.578
700.	10.931	35.755		4.19	10.8428	27.3930	44.5390	0.805	1505.6	693.	0.8560E 02	2.007
800.	11.132	35.935		4.21	11.0285	27.4994	44.6258	0.887	1508.2	792.	0.7853E 02	1.800
900.	10.899	35.973		4.18	10.7839	27.5735	44.7182	0.963	1509.1	891.	0.7376E 02	1.571
1000.	10.709	35.993		4.16	10.5823	27.6252	44.7854	1.035	1510.1	990.	0.7109E 02	1.325
1200.	10.281	36.041		4.28	10.1304	27.7433	44.9384	1.170	1511.9	1187.	0.6401E 02	1.423
1400.	8.733	35.796		4.56	8.5713	27.8109	45.1425	1.293	1509.3	1385.	0.5788E 02	1.341
1600.	6.873	35.504		4.92	6.7084	27.8572	45.3613	1.401	1505.3	1582.	0.5107E 02	1.339
1800.	5.171	35.227		5.25	5.0068	27.8550	45.5264	1.500	1501.5	1779.	0.4739E 02	1.063
2000.	4.192	35.079		5.46	4.0217	27.8471	45.6195	1.593	1500.7	1975.	0.4588E 02	0.811
2200.	3.720	35.024		5.57	3.5367	27.8528	45.6756	1.683	1502.0	2172.	0.4483E 02	0.721
2400.	3.453	34.999		5.58	3.2549	27.8604	45.7126	1.773	1504.2	2368.	0.4436E 02	0.628
2600.	3.192	34.979		5.60	2.9782	27.8702	45.7514	1.861	1506.5	2564.	0.4345E 02	0.669
2800.	2.987	34.962		5.62	2.7572	27.8767	45.7814	1.947	1509.0	2760.	0.4296E 02	0.599
3000.	2.856	34.951		5.63	2.6082	27.8811	45.8017	2.033	1511.8	2956.	0.4301E 02	0.504
3200.	2.750	34.940		5.62	2.4839	27.8835	45.8174	2.119	1514.7	3152.	0.4331E 02	0.452
3400.	2.674	34.932		5.59	2.3877	27.8851	45.8294	2.206	1517.8	3347.	0.4380E 02	0.402
3600.	2.613	34.924		5.56	2.3070	27.8861	45.8391	2.294	1521.0	3542.	0.4442E 02	0.371
3800.	2.567	34.918		5.56	2.2398	27.8864	45.8467	2.384	1524.2	3738.	0.4516E 02	0.334
4000.	2.541	34.913		5.55	2.1914	27.8864	45.8520	2.475	1527.5	3932.	0.4607E 02	0.287
4200.	2.514	34.908		5.56	2.1423	27.8865	45.8575	2.568	1530.8	4127.	0.4693E 02	0.297
4400.	2.497	34.904		5.57	2.1016	27.8866	45.8620	2.663	1534.2	4322.	0.4785E 02	0.276
4500.	2.495	34.902		5.58	2.0881	27.8862	45.8631	2.711	1535.9	4419.	0.4842E 02	0.202
4600.	2.495	34.901		5.58	2.0753	27.8865	45.8648	2.760	1537.7	4516.	0.4893E 02	0.242
4700.	2.499	34.900		5.59	2.0675	27.8862	45.8653	2.809	1539.4	4613.	0.4956E 02	0.142
4800.	2.505	34.899		5.59	2.0608	27.8860	45.8659	2.859	1541.2	4710.	0.5018E 02	0.144
4900.	2.514	34.900		5.60	2.0568	27.8868	45.8671	2.909	1543.0	4808.	0.5075E 02	0.209
5000.	2.522	34.899		5.60	2.0524	27.8865	45.8673	2.960	1544.7	4905.	0.5142E 02	0.089
5100.	2.532	34.899		5.61	2.0492	27.8867	45.8679	3.012	1546.5	5002.	0.5205E 02	0.146
5200.	2.544	34.899		5.62	2.0477	27.8868	45.8681	3.065	1548.3	5098.	0.5272E 02	0.098
5300.	2.557	34.898		5.63	2.0466	27.8864	45.8678	3.118	1550.1	5195.	0.5345E 02	-0.093
5400.	2.567	34.898		5.64	2.0431	27.8862	45.8681	3.171	1551.9	5292.	0.5413E 02	0.105

C. DARWIN 9A/85 STATION 008

P-DB	T-DEGC	SAL-PSU	POTRAN	DO-ML/L	POTEMP	SIGMA0	SIG4000	DYNHT-M	SNDV-M/S	DEPTH-M	SVANOM	BVFR-C/HR
10.	17.914	36.065		5.30	17.9126	26.1109	42.7488	0.019	1516.9	10.	0.1895E 03	-9.990
20.	17.917	36.065		5.32	17.9139	26.1107	42.7485	0.038	1517.1	20.	0.1899E 03	-0.241
30.	17.918	36.066		5.32	17.9132	26.1111	42.7490	0.057	1517.2	30.	0.1903E 03	0.355
50.	17.919	36.065		5.32	17.9102	26.1117	42.7498	0.095	1517.6	50.	0.1910E 03	0.326
75.	17.926	36.045		5.25	17.7136	26.1445	42.7955	0.143	1517.4	74.	0.1888E 03	2.042
100.	14.163	35.858		5.24	14.1485	26.8195	43.7145	0.179	1506.7	99.	0.1251E 03	9.274
125.	13.977	35.884		5.03	13.9593	26.8796	43.7874	0.209	1506.5	124.	0.1201E 03	2.766
150.	13.388	35.771		5.07	13.3673	26.9165	43.8700	0.239	1504.9	149.	0.1173E 03	2.206
200.	12.901	35.713		5.09	12.8734	26.9719	43.9633	0.296	1504.0	198.	0.1133E 03	1.900
250.	12.522	35.682		4.94	12.4885	27.0243	44.0453	0.352	1503.5	248.	0.1097E 03	1.850
300.	12.250	35.651		4.81	12.2097	27.0550	44.0978	0.406	1503.4	298.	0.1080E 03	1.428
400.	11.476	35.557		4.96	11.4245	27.1314	44.2370	0.511	1502.3	397.	0.1030E 03	1.611
500.	11.271	35.576		4.68	11.2073	27.1871	44.3092	0.613	1503.3	496.	0.1002E 03	1.350
600.	11.090	35.632		4.51	11.0142	27.2655	44.4013	0.711	1504.3	595.	0.9521E 02	1.594
700.	11.413	35.857		4.35	11.3217	27.3840	44.4895	0.801	1507.4	694.	0.8715E 02	1.892
800.	11.413	36.000		4.27	11.3079	27.4980	44.6008	0.885	1509.2	792.	0.7913E 02	1.894
900.	11.288	36.085		4.21	11.1708	27.5901	44.7013	0.961	1510.6	891.	0.7295E 02	1.723
1000.	11.193	36.140		4.19	11.0625	27.6525	44.7706	1.032	1511.9	990.	0.6956E 02	1.423
1200.	10.555	36.112		4.30	10.4027	27.7507	44.9220	1.166	1513.0	1187.	0.6402E 02	1.339
1400.	8.040	35.659		4.69	7.8862	27.8095	45.2041	1.287	1506.6	1385.	0.5587E 02	1.457
1600.	5.950	35.314		5.14	5.7965	27.8274	45.4213	1.392	1501.4	1582.	0.5037E 02	1.229
1800.	4.829	35.151		5.40	4.6690	27.8335	45.5400	1.490	1500.0	1779.	0.4787E 02	0.938
2000.	4.181	35.068		5.55	4.0110	27.8394	45.6133	1.585	1500.6	1975.	0.4652E 02	0.785
2200.	3.753	35.029		5.60	3.5690	27.8533	45.6727	1.676	1502.1	2172.	0.4497E 02	0.780
2400.	3.481	35.008		5.64	3.2825	27.8650	45.7142	1.766	1504.3	2368.	0.4411E 02	0.680
2600.	3.244	34.987		5.66	3.0297	27.8725	45.7482	1.853	1506.7	2564.	0.4358E 02	0.622
2800.	3.008	34.966		5.69	2.7777	27.8784	45.7809	1.940	1509.0	2760.	0.4295E 02	0.620
3000.	2.867	34.952		5.72	2.6195	27.8814	45.8007	2.026	1511.8	2956.	0.4308E 02	0.493
3200.	2.762	34.941		5.70	2.4957	27.8830	45.8156	2.112	1514.8	3152.	0.4345E 02	0.437
3400.	2.681	34.932		5.69	2.3946	27.8850	45.8286	2.199	1517.8	3347.	0.4387E 02	0.419
3600.	2.616	34.925		5.68	2.3099	27.8861	45.8388	2.288	1521.0	3543.	0.4444E 02	0.381
3800.	2.570	34.918		5.68	2.2422	27.8862	45.8463	2.377	1524.2	3738.	0.4520E 02	0.332
4000.	2.522	34.911		5.68	2.1730	27.8865	45.8541	2.468	1527.4	3933.	0.4587E 02	0.348
4200.	2.477	34.904		5.70	2.1065	27.8865	45.8614	2.561	1530.7	4127.	0.4655E 02	0.343
4400.	2.460	34.900		5.72	2.0664	27.8864	45.8656	2.655	1534.1	4322.	0.4749E 02	0.268
4500.	2.459	34.899		5.71	2.0533	27.8868	45.8675	2.702	1535.8	4419.	0.4798E 02	0.250
4600.	2.461	34.898		5.71	2.0426	27.8867	45.8686	2.751	1537.5	4516.	0.4854E 02	0.200
4700.	2.465	34.897		5.70	2.0341	27.8867	45.8695	2.800	1539.3	4614.	0.4913E 02	0.180

*