I.O.S.

CTD DATA FROM THE N.E. ATLANTIC 31°N - 46°N, JULY 1982 DISCOVERY CRUISE 130

BY
P.M. SAUNDERS

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

NATURAL ENVIRONMENT RESEARCH COUNCIL
INSTITUTE OF OCEANOGRAPHIC SCIENCES

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WORMLEY

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RADIOACTIVE WASTE MANAGEMENT

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Abstract (100-200 words as desired)

This report presents lists and graphs of CTD data obtained aboard RRS Discovery during July 1982. A series of 14 stations were occupied between approximate 31°N 24°W and 46°N 14°W in support of sound ranging trials. A further 20 stations were occupied in the vicinity of Discovery Gap, a channel for deep flow between the Madeira and Iberian basins near 37°30'N 15°30'W. All CTD data were reconciled with reversing thermometer measurements, and salinity and oxygen samples. Root mean square differences for pressure, temperature, salinity and oxygen were 7db, .012°C, .007 PSU and 0.3 ml/l in the depth interval 0-2,000 db and 6 db, .005°C, .003 PSU and .16 ml/l for depths 2,000-5,600 db.

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299

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.

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METHOD OF DATA COLLECTION

The data described in this report was gathered on legs 1 & 2 of Discovery Cruise 130 (Tenerife-Funchal-Gibraltar) employing a Brown conductivity temperature and depth profiler (CTD) equipped also to measure oxygen and light transmittance. Earlier reports in this series Saunders (1980 a,b and 1982) give details of the equipment and procedures. Here we comment only on changes in either.

Stations 10560 to 10574 made from the hydraulic midship winch were shared between the CTD multisampler and a 14 m long hydrophone employed in listening for moored sound sources. (A description of these sound ranging trials is found in the cruise report, Gould and Saunders, 1982). Listening was performed on the lowering and both CTD and sample data were obtained on recovery. Because of the length of the hydrophone and its installation below the CTD, the latter was rarely brought closer than 25 m above the bottom.

For stations 10555, 556 and 10575 to 10599 the hydrophone was removed. Data was gathered on the lowering and samples for salinity and oxygen was obtained on recovery, a practice that has become our standard. These stations were generally made to within 10 m of the bottom employing a short-range echosounder, installed alongside the CTD unit. No differences have so far been detected between the down and up data, except for the oxygen measurements as described later.

A single CTD unit was employed throughout and no changes were made to the pressure, temperature or conductivity sensors. A SEA TECH 1 m path transmissometer was interfaced with the CTD and used for all the 34 stations. A Beckmann oxygen sensor was found faulty at the start of the cruise but a replacement was fitted only for stations 10570 et seq.

The multisampler bottles were found generally to be in a state of poor repair, tangling of lanyards on the thermometer frames remains a perennial problem, and about 30% of all salinity samples showed deviations in excess of .03 PSU from the corrected CTD salinity and were discarded. A new sampling unit is overdue.

Data was acquired on the PDP11/34 computer: 1 second averaged raw data were calculated, written to tapes and for this report subsequently analysed ashore. Figure 1 shows the cruise track and Figure 2 shows the positions of selected CTD stations in Discovery Gap. Table 1 lists

relevant information for each lowering. In addition to the CTD stations one dozen neutrally buoyant floats were tracked at depths between 4,000 and 4,900 m in the vicinity of Discovery Gap. Six long term moorings were also deployed in the same region. The scope of this work but not the results are described in the cruise report cited ealier.

RECONCILIATION OF CTD DATA WITH ROSETTE SAMPLE DATA

(a) Pressure

The pressure sensor of the CTD unit was calibrated in the laboratory in September 1980 and repeat calibrations of January and October 1982 showed the same slope. The deck pressure offset was stable and a value of 10 db was assumed for all stations. Differences between the pressures determined from pairs of reversing thermometers (protected and unprotected) and simultaneous observations of CTD pressure, each made after a 5 minute stop during the raising of the instrument have been calculated and statistics for both the shallow and deep parts of each lowering are listed in Table 2.

For stations where the bottom is flat the depth of the CTD can be estimated from the corrected water depth minus the height of the echo sounder above the bottom. This depth is converted to pressure (see Saunders, 1981) and compared with the measured CTD pressure. 11 such determinations gave the mean difference - 3 db (the CTD measured pressure less) and an rms of 6 db very similar to the reversing thermometer values.

(b) Temperature

Laboratory calibrations of January 1982 and October 1982, prior to and post cruise 130, showed the platinum resistance thermometer stable. By comparison with 57 reversing thermometer measurements between 2 and 23°C the corrected CTD values were determined from the equation $T = .047 + .0005002 \times RAWTEMP$. See Table 2 for the spread of values. This equation corresponds very closely to the calibration obtained in the same way for the same sensor on Discovery Cruise 117 in January-February 1981, the deviations amounting to .003°C at low temperatures (see Saunders, 1980a). Though these calibrations are mutually consistent they are inconsistent with the laboratory calibrations mentioned above. (These would lower deep CTD temperatures on cruise 130 by .013°C.) The cause of this discrepancy is under investigation but severly hampered by the destruction of the platinum resistance thermometer sensor in May 1983.

(c) Salinity

As found on previous cruises in the area observations of salinity S at potential temperatures θ less than 2.6°C reveal a linear θ - S relation passing through the points S = 34.90, θ = 2.06°C and S = 34.95, θ = 2.57°C. All but the first station penetrated into this water so that the simplest method of calibrating the CTD was to force salinities to fit the above line.

The cell factor required to bring provisional salinities into agreement with the deep θ - S was determined for each station*. These factors are listed in Table 1. If a constant cell factor had been used the deviations of the θ - S measured with the CTD from the expression above is plotted in Figure 3. A number of points emerge from this figure. One would judge the stability of the salinity from the CTD good: excluding three outliers the r.m.s. deviation about a mean is only .0013. The three outliers have deviations 5 x the r.m.s. and require an alternative explanation - such as partial fouling: consequently stations 10556, 563 and 567 may be slightly less reliable than other stations made on this cruise. Another important point is that the group of stations from the 4th to 17th July cover a separation of 2,000 km in the N.S. direction. Deviations of the θ - S from the same curve are thus no more than .001 and possibly less.

In addition to the above internal consistency of the instrument comparisons have also been made with salinity measurements obtained with the rosette sampler. Table 2 shows the r.m.s. in the deep water as .003 and shallow as .007. (The three stations mentioned above agree best with the sample data when the 'out-of-line' calibrations derived above are employed). Although the deep salinity is of very high quality throughout some spurious fresh values (by about .005) have been detected on stations 10595 and 10597.

(d) Oxygen

The procedure employed in reconciling dissolved oxygen (DO) concentrations obtained from sample values and the Beckman oxygen sensor of the CTD have been described by Saunders (1980b). The DO fractional saturation F, oxygen probe current I, temperature T^1 and pressure p are given by

$$\ln F - \ln I = \ln C^1 + \alpha^1 T^1 + \beta^1 p$$

*Footnote: Average value from $2.1 < \theta < 2.3$, between 3600 and 4300 m depth and derived from 50 1 second values.

where C^1, α^1, β^1 are the constants to be determined. A least squares fit of 46 data sets gave

$$C^1 = 1.47 \times 10^{-3} \qquad \alpha^1 = -.035°C^{-1} \qquad \beta^1 = 1.425 \times 10^{-4} db^{-1}$$

In the past, the temperature T^1 has been given as 0.25 x T (ambient) + 0.75 x T (oxygen) (Saunders 1980b) where T (oxygen) is the lagged temperature measured in the oxygen probe. Pollard (private communication) found this technique unsuitable when applied to towed yo-yo measurements. In order to get ascent and descent values of DO to agree he replaced T^1 by T_{300} a lagged temperature derived from the ambient value with a time constant of 300 seconds.

The review of the performance of the membrane covered oxygen electrode by Grasshoff (1981) reveals the presence of a lagging behaviour in isothermal conditions to a change of DO concentration. The lagging behaviour has both a short and a long time constant, both of which are temperature sensitive. If this phenomenon is primarily responsible for lagging behaviour of the electrode observed in the ocean then lagging the temperature is inappropriate. Indeed an examination of the behaviour of the electrode from 3,000 to 5,000 m where the water is nearly isothermal (2.5 - 3.0°C) reveals an electrode current lag of between 30 and 50 seconds in order to superimpose up and down traces. This lag decreases sharply as temperature increases: at 25°C it appears to be about 7 seconds. We find a reasonable fit to be

$$\text{LAG(secs)} = 70 \exp - 0.1 \times T \text{ (ambient) °C}$$

A lagged current can of course be constructed from the 1 sec average observations: a very simple procedure is to look ahead an interval equal to the lag and employ the electrode current measured there. This practice has been adopted for the data described in this report - although the method will probably be superceded in future. In calculating the fractional saturation the temperature T^1 is set equal to the ambient value.

The comparison between the sample oxygen and the CTD oxygen (from the data lists) are presented in Table 2. The r.m.s. fit is large and comparable with the results earlier (Saunders 1980b).

In this report dissolved oxygen concentration has been expressed in ml/l for historical reasons. Employing an oxygen molar volume of 22.39616 dm^3 1 ml/l = 44.660 $\mu m\ dm^{-3}$, the latter the appropriate unit for reporting DO. Unfortunately some researchers employ the units µm/Kg. If a conversion unit of 1.025 Kg dm^{-3} is employed 1 ml/l = 43.57 $\mu m Kg^{-1}$.

COMPUTER PROCESSING OF CTD DATA

As described in earlier reports our practice is to employ the raw one-second averaged data obtained from the ship-borne computer and process the data ashore.

Data is processed there using the G-EXEC file handling package: the Honeywell 66/DPS-300 at IOS Bidston was employed. Data processing is in batch and several programs are put together to form a job. The computation path is described in general terms in Table 3 and a description of the jobs (helpful to other G-EXEC users) is listed in the Appendix.

Standard plots and lists of the stations occupy the main body of the report. Derived quantities have been computed from algorithms to be published shortly in a UNESCO technical paper on marine science and compiled by N.P. Fofonoff and R.C. Millard. On seven stations (10575, 76, 85, 87, 92, 93, 94) repeated lowerings were made between 4,000 m and the bottom. Only the first down is listed here.

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Messrs J. Moorey determined salinities and oxygens and corrected thermometers; G. Griffiths maintained the CTD unit and D.S. Collins operated the PDP11/34 data acquisition systems. Drs W.J. Gould and J.S. Swallow shared the data collection and provided advice and encouragement.

The work described in this report has, in part, been carried out under contract for the Department of the Environment as part of its radioactive waste management programme. The results will be used in the formulation of Government policy but at this stage they do not necessarily represent that policy.

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TABLE 1

CTD Station List

Station Number	Time Down	Date 1982	Lat. N.	Lon. W.	Water Depth m	Closest Approach m	No. of samples S	T	DO	Conductivity cell factor
10555	1339	27/6	36 39.3	16 02.2	3998	2200	8	4	0	0.999 811*
10556	0542	28	37 21.0	15 49.9	5056	4	8	4	0	0.999 811*
10560	0104	30	37 16.7	16 50.3	4613	23	5	3	0	1.000 044
10561	0837	30	37 03.9	17 09.9	5005	19	0	0	0	1.000 044
10562	1615	30	36 56.3	17 33.1	5328	24	5	3	0	1.000 053
10563	0441	1/7	36 29.0	18 31.2	5546	21	5	3	0	1.000 234*
10564	1849	1	37 16.4	19 38.8	5265	22	4	2	0	0.999 994
10565	1308	2	35 17.5	20 11.4	5242	24	6	5	0	0.999 967
10566	0655	3	33 54.0	21 46.5	5335	22	5	4	0	1.000 006
19567	1707	3	33 56.3	21 46.1	5340	780	0	4	0	1.000 303*
10568	2006	4	30 49.3	24 11.3	5428	930	6	4	0	0.999 964
10569	1942	5	31 29.7	21 50.7	5049	24	6	5	0	0.999 988
10571	0540	13	38 19.3	16 00.1	5233	24	9	3	0	1.000 021
10572	0706	14	40 50.6	15 29.8	5252	25	9	3	0	0.999 977
10573	1609	15	44 18.9	13 43.6	4986	26	10	2	0	0.999 957
10574	1041	16	46 20.2	13 57.8	4829	22	10	3	6	0.999 988
10575	2148(1)	19	37 19.0	15 39.0	4480	10	0	0	0	0.999 933
	0810(17)	20	37 22.3	15 43.6	5038	9				
10576	1218(1)	20	37 26.3	15 42.8	4378	10	0	0	0	1.000 048
	1647(8)	20	37 24.3	15 41.3	5244	10				
10582	2100	21	37 15.5	15 34.8	4184	9	9	3	5	0.999 992
10583	0732	22	37 31.0	15 47.4	4526	9	9	3	5	0.999 937
10584	0420	24	37 40.3	15 37.2	5059	10	8	3	5	0.999 962
10585	0556(1)	25	37 34.0	15 21.1	4917	10	0	0	0	0.999 957
	1120(6)	25	37 33.2	15 17.0	4178	10				
10586	0552	26	37 29.3	15 37.7	4624	10	9	2	6	0.999 945
10587	1710(1)	26	37 35.5	15 39.2	4883	9	0	0	0	0.999 948
	1926(8)	26	37 33.0	15 37.6	4526	10				
10588	0346	28	37 03.8	16 15.4	5285	10	7	3	6	0.999 941
10591	1920	28	37 28.6	15 24.5	4802	9	0	0	0	0.999 926
10592	2300(1)	29	37 43.4	15 28.0	4808	10	0	0	0	0.999 927
	0151(5)	30	37 44.5	15 30.9	4565	10				
10593	1534(1)	30	37 39.5	15 33.8	4995	10	0	0	0	0.999 986
	1948(6)	30	37 38.7	15 32.6	4405	10				
10594	2109(1)	31	37 35.7	15 38.5	4922	9	0	0	0	0.999 980
	0144(6)	1/8	37 37.2	15 39.4	4959	10				
10595	0957	1	37 41.9	15 18.5	4914	7	9	4	7	0.999 944
10596	2032	1	37 49.8	16 30.6	5183	9	7	3	6	0.999 958
10597	0935	2	38 39.7	15 15.1	5538	6	7	3	6	0.999 949
10598	1648	2	37 04.5	15 10.4	5031	8	0	0	0	0.999 982
10599	2219	2	37 55.5	14 45.2	4916	9	0	0	0	0.999 934

Footnote *stations referred to on page 7.

TABLE 2

Fit of CTD Data to Rosette Sample Values

Variable	Range	Difference between CTD and Rosette measurements		
		Mean Difference	r.m.s.	number
pressure, db	0-2000 db	+3	7	14
	2000-5600 db	-2	6	28
Temperature, °C	5-23°C	+.005	.012	33
	2-5°C	-.0005	.005	24
Salinity	0-2000 db	.003	.007	48
	2000-5600 db	-.002	.003	39
Oxygen, ml/l	0-2000 db	.25	.30	23
	2000-5600 db	.0	.16	23

Depth of the 5°C isotherm is approximately 1800 db.

TABLE 3

Data Processing path (also see Appendix)

Stage	
1	Input raw 1-second averaged data; sketch it.
2	Provisional edit of noisy variables.
3	Calibrate p, T compute provisional S, θ; list.
4	Compute potential transmittance and salinity correction factor.
5	Lag oxygen current and correct salinity
6	Calculate dissolved oxygen concentration
7	Truncate data ends and identify suspect data
8	Edit selected suspect data
9	Archive edited values to tape
10	Create 5 db average values for down lowering
11	Fill data gaps at start of lowering
12	Plot 5 db average values
13	Construct a station list.

APPENDIX

Stage 1. Input raw CTD data ;sketch it.

```
EXEC PPDPIN
     11
FILE,2,WPRDI10598BW
TYPE,7
FIND WTAPE94162
MAKE WPRDI10598BW
EXEC PCOPYA
1
VARS,-
COPY,,
FIND WPRDI10598BW
MAKE WPRDI10598BW
EXEC PSKTCH
0
CYCS,,
GROUP,100
VARS,-
FIND WPRDI10598BW
```

Stage 2. Provisional edit of noisy variables.

```
EXEC PEDITA
0000001
LIMIT,COND,320000,505000
LIMIT,DELTAT,-10000,10000
LIMIT,TRANSMIT,15000,35000
LIMIT,OXYC,2300,17500
FIND WPRDI10598BW
MAKE WPRDI10598BW
*
```

Stage 3. Calibrate p,T;compute prov S,theta and list.

```
EXEC PCALIB
0
LINEAR,PRES,PRES,.01,-10.,DECIBARS,-999.
LINEAR,TEMP,TEMP,.00005002,.047,DEGC,-9.99
LINEAR,COND,COND,.00010005,.0,MMHO,-9.99
LINEAR,DELTAT,DELTAT,.0000125,.0,DEGC,-9.99
LINEAR,TRANSMIT,TRANSMIT,.0019926,.0,PERCENT,-99.9
LINEAR,OXYT,OXYT,.0128,.0,DEGC,-9.99
LINEAR,OXYC,OXYC,0.1,0.0,MUAMPS,-999.
LINEAR,TIME,TIME,1.0,0.0,SECS,-999.
FIND WPRDI10598BW
MAKE PHYSFILE,,,8,50000
EXEC PARITH
0
CYCS,,
COPY,PRES
ADD,TEMP,DELTAT,TEMP,DEGC,-9.99
COPY,COND,DELTAT,TRANSMIT,OXYT,OXYC,TIME
FIND PHYSFILE
MAKE WPRDI10598BW
EXEC PEOS80
0
CYCS,,
COPY
VARS,PRES,TEMP
SAL78
VARS,P,1,T,2,G,3
PTMP,0.0
VARS,P,1,T,2,S,3
COPY
VARS,TRANSMIT,OXYT,OXYC,TIME
FIND WPRDI10598BW
MAKE WPRDI10598BW
EXEC PLSTDC
00001
EVERY,50
CYCS,,
VARS,-
FIND WPRDI10598BW
*
```

Stage 4. Compute pot transmittance and salinity correction factor.

```
EXEC PUSRIO
O
VARS,PRES,TEMP,SAL78,POTEMP,TRANSMIT
CYCS,,
COMM POTTRAN ACCORDING TO APPROXIMATE METHOD  -  PMS MARCH 83
COMM FCON(1) IS AIR CAL AND FCON(2) IS OFFSET - BOTH VDC
FCON,4.122,-0.003
OVARS,PRES,TEMP,SAL78,POTEMP
NVARS,POTRAN
OVARS,OXYT,OXYC,TIME
SUBS
$$ SELECT(PMS/TRANSMIT)
FIND WPRDI10598BW
MAKE WPRDI10598BW
*
```

Stage 5. Lag oxygen current and correct salinity.

```
EXEC PUSRIO
0
VARS,OXYC,TEMP
CYCS,,
COMM FCON(1) IS LAG OF CURRENT IN SECS AT TEMP 0 DEG C
COMM FCON(2) IS FACTOR IN LAG=FCON(1)*EXP-FCON(2)*TEMP
COMM FCON(3) IS DATA INTERVAL IN SECS
FCON,70.,0.1,1.0
OVARS,PRES,TEMP,SAL78,POTEMP,POTRAN,OXYT,OXYC,TIME
SUBS
$$ SELECT(PMS/LAG)
FIND WPRDI10598BW
MAKE WPRDI10598BW
EXEC PCALIB
0
COPY,PRES,PRES
COPY,TEMP,TEMP
LINEAR,SAL78,SAL78,0.999982,0.0
LINEAR,POTRAN,POTRAN,1.0,0.0
COPY,OXYC,OXYC
COPY,OXYT,OXYT
FIND WPRDI10598BW
MAKE WCTDWK02
EXEC PINTRP
0
LINEAR,1,-,6
FIND WCTDWK02
MAKE WCTDWK02
EXEC PCOPYA
1
VARS,-
COPY,,
FIND WCTDWK02
MAKE WPRDI10598BW
*
```

Stage 6. Calculate dissolved oxygen concentration.

```
EXEC POXYGN
0
CYCS,,
COPY
VARS,-
OXYG,.00147,0.,1.0,0.,-0.035,0.0001425,1.0
VARS,PRES,TEMP,SAL78,OXYC,OXYT
FIND WPRDI10598BW
MAKE PHYSFILE,,,8,15000
EXEC PCOPYA
1
VARS,-
COPY,,
FIND PHYSFILE
MAKE WPRDI10598BW
```

Stage 7. Truncate data ends and identify suspect values.

```
EXEC PCOPYA
1
VARS,-
COPY,30,10392
FIND WPRDI10598BW
MAKE PHYSFILE,,,8,12000
EXEC PEDITA
0000001
LIMIT,POTRAN,30,72
FIND PHYSFILE
MAKE WPRDI10598BW
EXEC PCHECK
01
CYCS,,
ERRA,0.001,8.0
VARS,-
FIND WPRDI10598BW
MAKE WEDITPR
*
```

Stage 8. Edit selected suspect data.

```
EXEC PRIGHT
01
ENTRIES,55,-,68,136,-,155
FIND WPRDI10598BW
FIND WEDITPR
MAKE PHYSFILE,,,8,12000
EXEC PINTRP
0
LINEAR,-
FIND PHYSFILE
MAKE WPRDI10598BW
EXEC PCHECK
01
CYCS,,
ERRA,0.001,8.0
VARS,-
FIND WPRDI10598BW
MAKE WEDITPR
```

The above stage is repeated as necessary.

Stage 9. Archive 1 second edited values to tape

```
PMS,PMS,PMS DISCOGAP CTD  ARCHIVE TO TAPE 91363
EXEC PTARCH
0
FIND WPRDI10598BW
MAKE DGAP130,ARCH
*
```

Stage 10. Create 5db averages of lowering.

```
EXEC PCOPYA
1
VARS,PRES,TEMP,SAL78,POTRAN,OXYGEN
COPY,1,5538
FIND WPRDI10575BW
MAKE WCTDWK02
EXEC PGFILE
0
FIND WCTDWK02
MAKE TEMPFILE,,,5,7500
EXEC GSORT3
00000000000000001000PRES     WPRDI10575BW
FIND TEMPFILE
MAKE WORKFILE,,,5,7500
EXEC GPFILE
0
FIND WORKFILE
MAKE PHYSFILE,,,5,7500
EXEC PAVRGE
0
SCAN,1,0.,5.0
VARS,-
FIND PHYSFILE
MAKE WPRDI10575BW
EXEC PLSTVR
0
CYCS,,
VARS,-
FIND WPRDI10575BW
```

Stage 11. Fill data gap at start of lowering.

```
EXEC PCOPYA
0
VARS,-
INSERT,1
COPY,1,
FIND WPRDI10598BW
MAKE PHYSFILE,,,5,1200
EXEC PEDITA
0000001
NUCYC,1,2.5,20.3456,36.1213,61.4678,5.53387
FIND PHYSFILE
MAKE WPRDI10598BW
EXEC PLSTDC
00001
CYCS,1,50
VARS,-
FIND WPRDI10598BW
*
```

Stage 12. Plot 5db average values.

```
PMS,PMS,DISCOVERY 130 STN 10599 37 56n 14 45W
EXEC PCALIB,,ZB

COPY,PRES,PRES
COPY,TEMP,TEMP
RANGE,SAL78,SAL78,34.9,36.2
COPY,OXYGEN,OXYGEN
FIND WPRDI10599BW
MAKE PHYSFILE,,,4,1200
EXEC PLOTXY,WORM

CYCS,1,400
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,SAL78,34.9,36.2,1,.2
XVAR,OXYGEN,4.,10.5,1,1.0,1
FIND PHYSFILE
*
```

Stage 13. Construct station list.

```
EXEC PE0S83
0
CYCS,,
POSI,38,19,16,00
COPY
VARS,1,2,3,4,5
PTMP,0.0
VARS,P,1,T,2,S,3
SIGT
VARS,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 WPRDI10571BW
MAKE PHYSFILE,,,11,1200
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
FIND PHYSFILE
MAKE WCTDWK01
EXEC PE0S83
0
CYCS,,
COPY
VARS,-
SVAN
VARS,P,1,T,2,S,3
BVFR
VARS,P,1,T,2,S,3
FIND WCTDWK01
MAKE WPRDI10571BW
EXEC PLSTDC
00000000000101
(1H1//30X,'DISCOVERY 130 STATION 10571'//
'     P-DB     T-DEGC    SAL-PSU  DO-ML/L  POTEMP   SIGMAT  SIG4000'
'    DYNHT-M SNDV-M/S DEPTH-M  SVANOM  BVFR-CY/HR'///)
(1X,F8.0,2F9.3,F8.2,1X,3F9.4,F9.3,F9.1,F7.0,E12.4,F9.3)


CYCS,,
VARS,1,2,3,5,-,13
FIND WPRDI10571BW
*
```

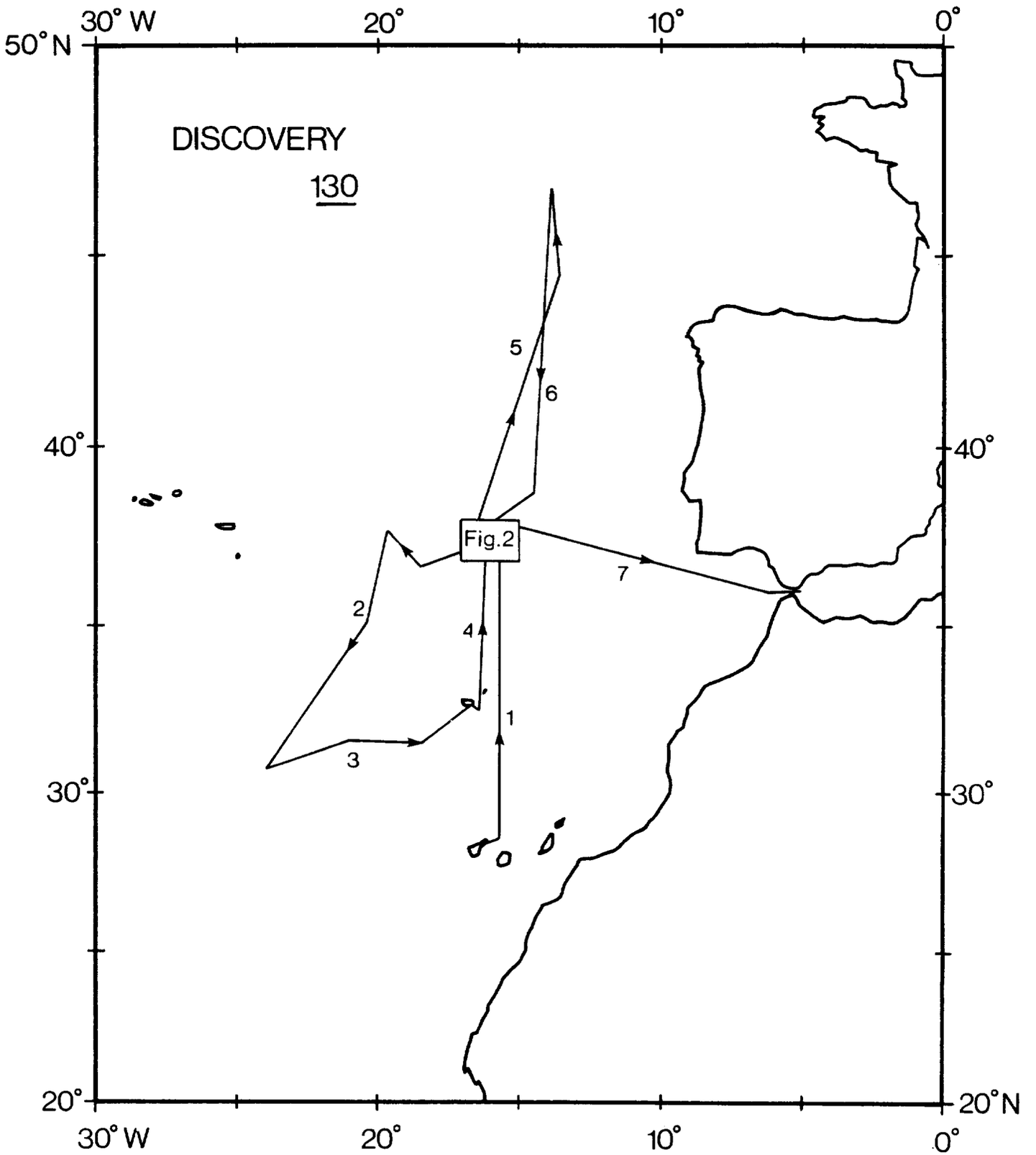


Figure 1. 25 June - 5 Aug 82

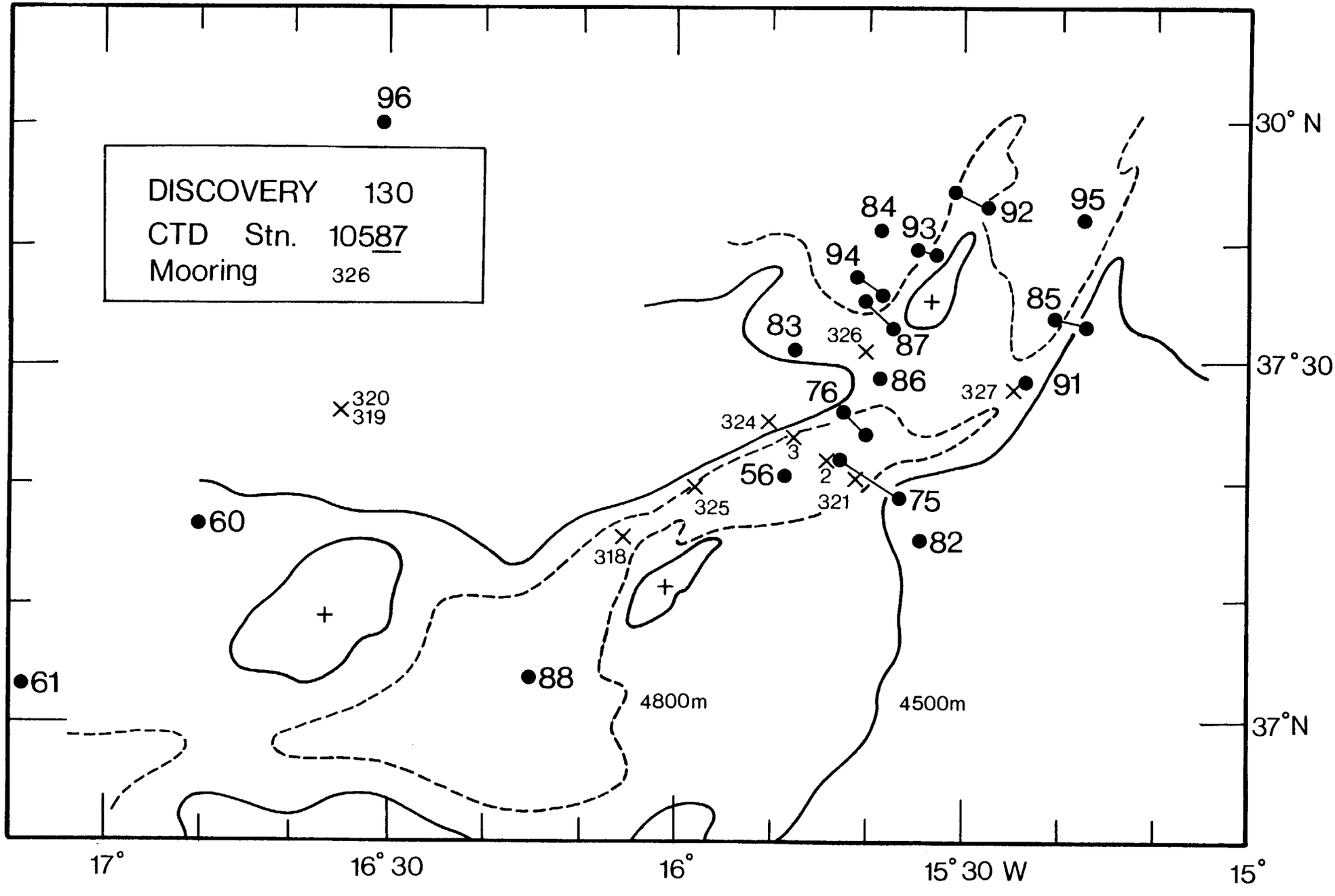


Figure 2. Stations in Discovery Gap

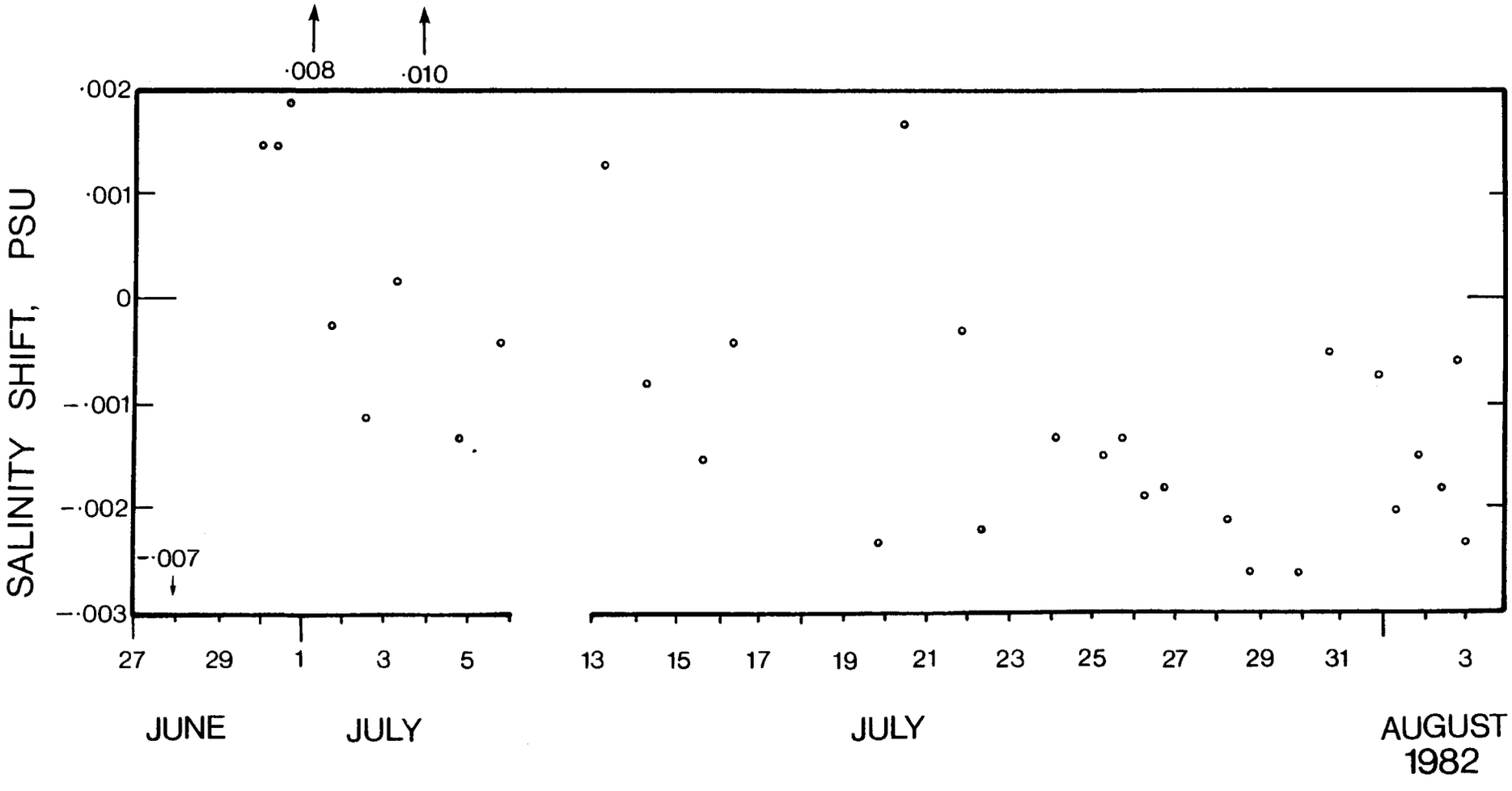


Figure 3. Performance of CTD conductivity cell assuming fixed θ-s in deep water.

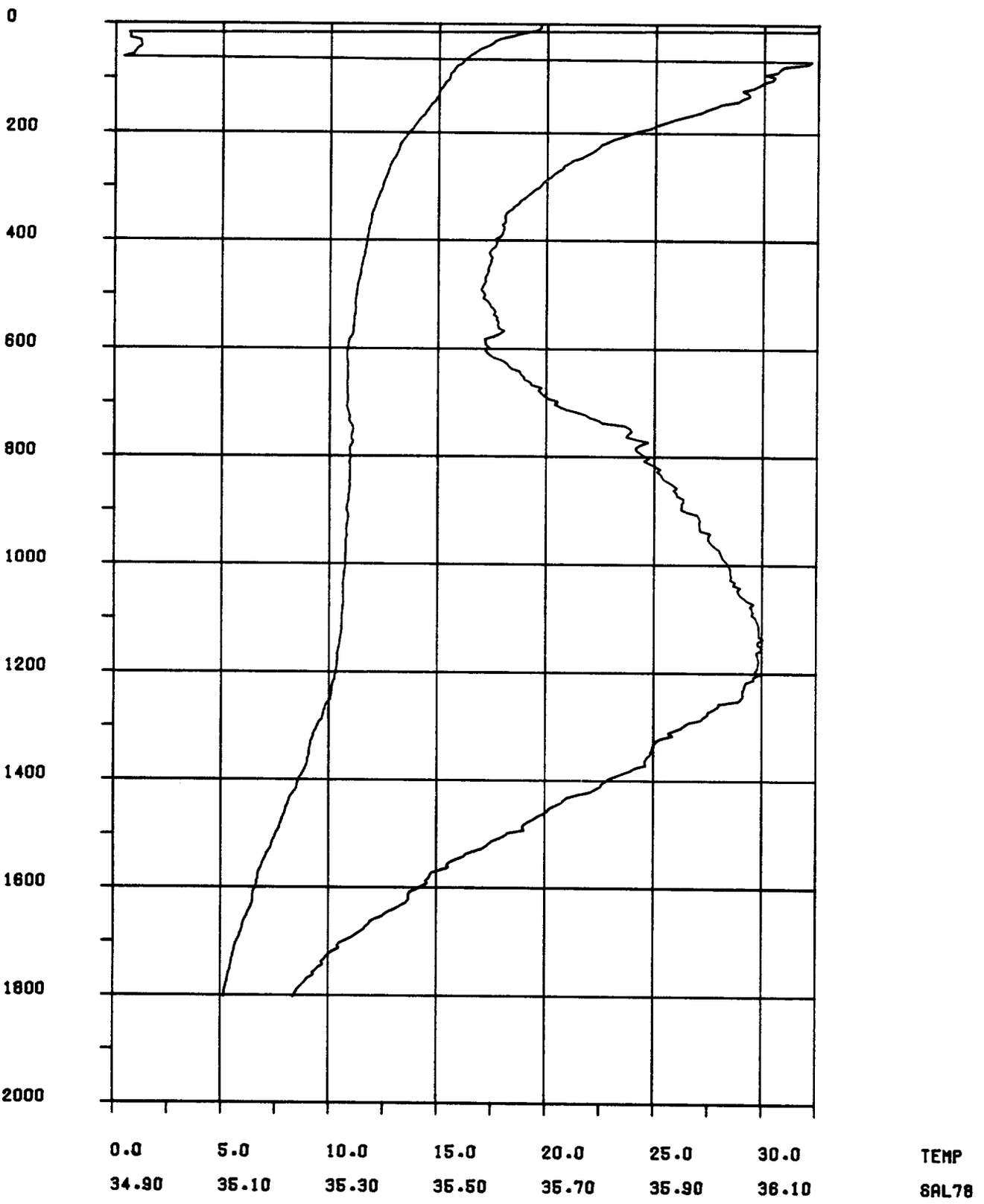
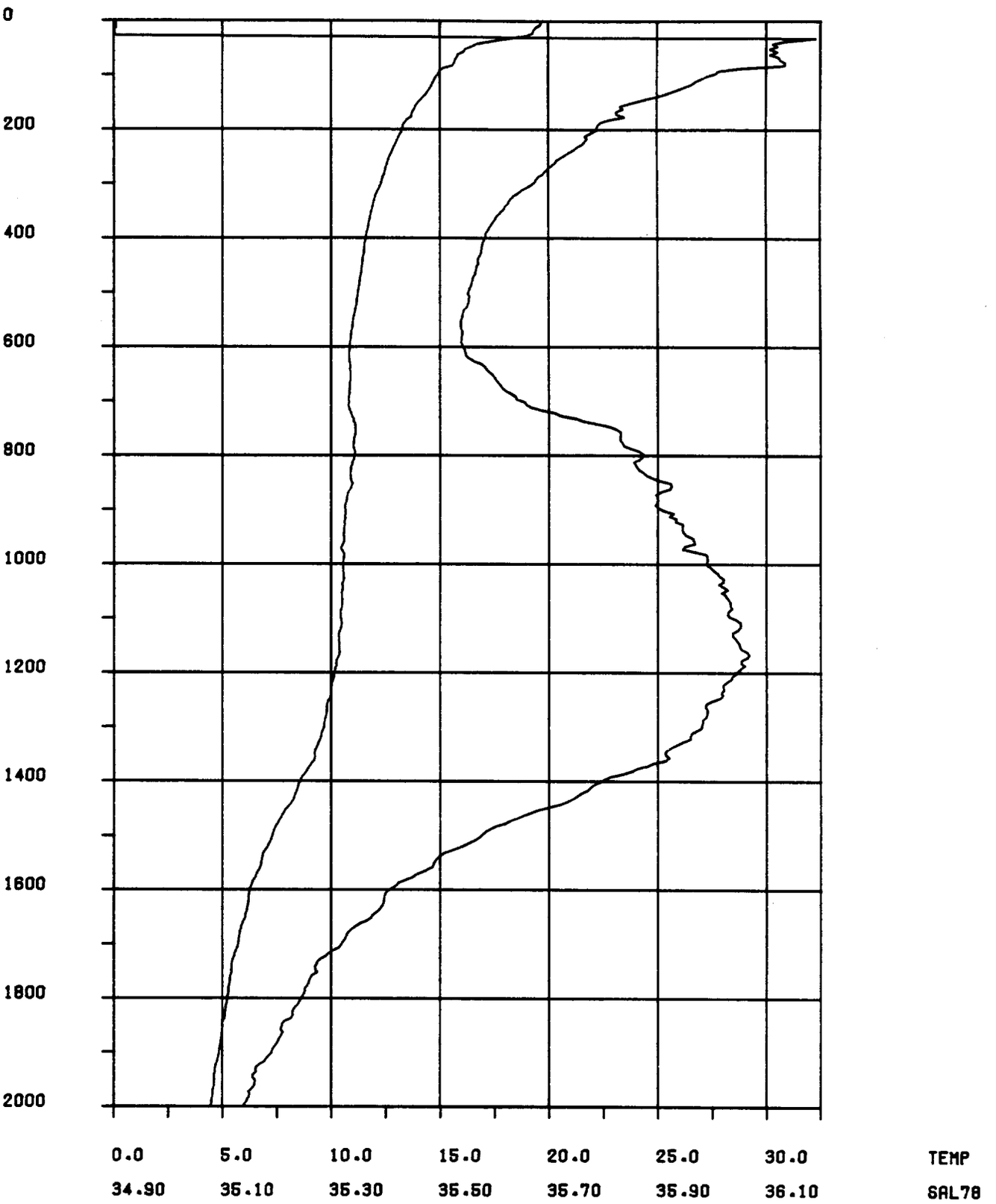


Figure 4

DISCOVERY 130 STN 10555 36 39N 16 02W 07/22/83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600
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1000
1200
1400
1600
1800
2000
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
DISCOVERY 130 STN 10556 37 21N 15 50W
07/22/83

Figure 5

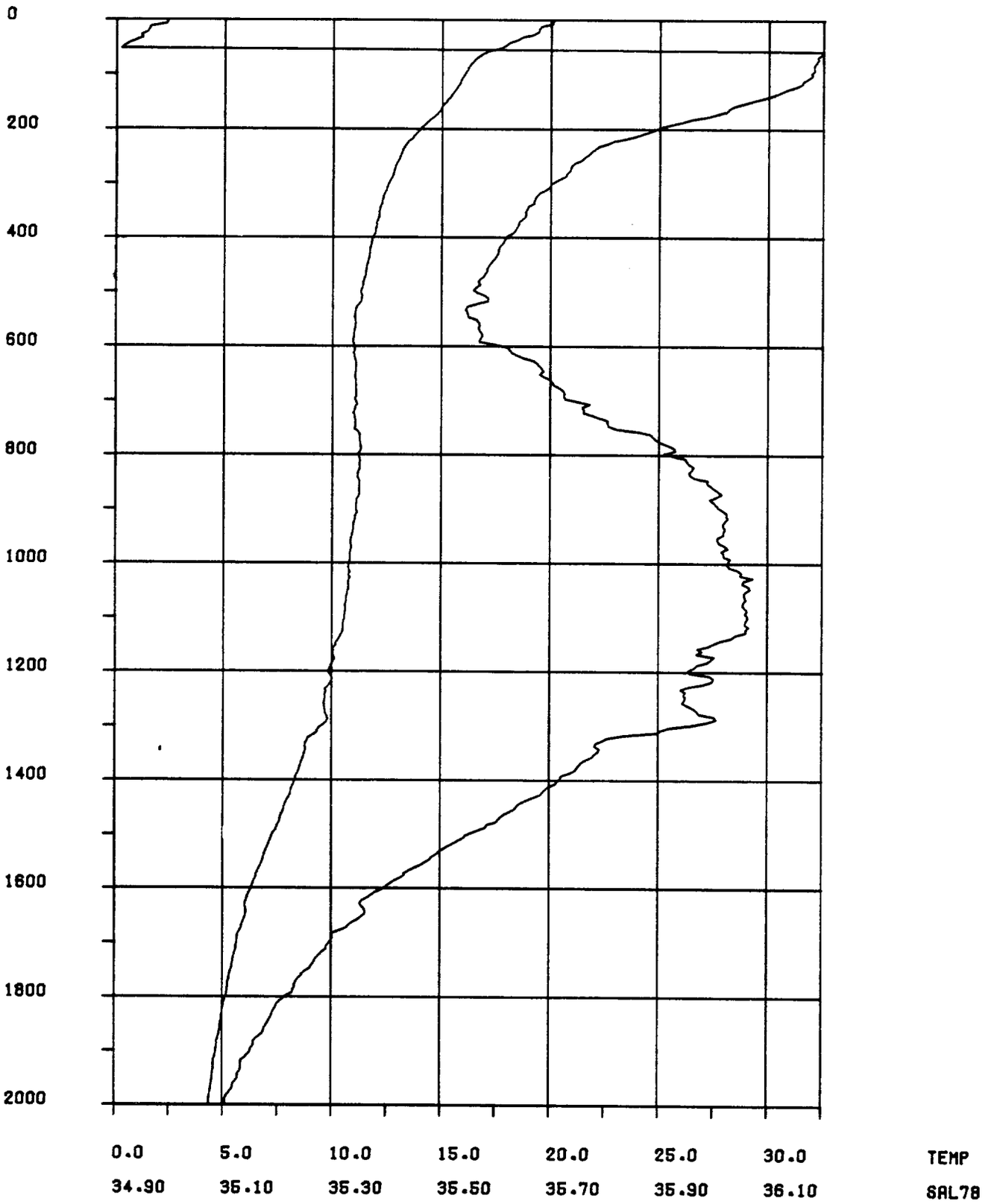


Figure 6

DISCOVERY 130 STN 10560 37 17N 16 50W 07/22/83

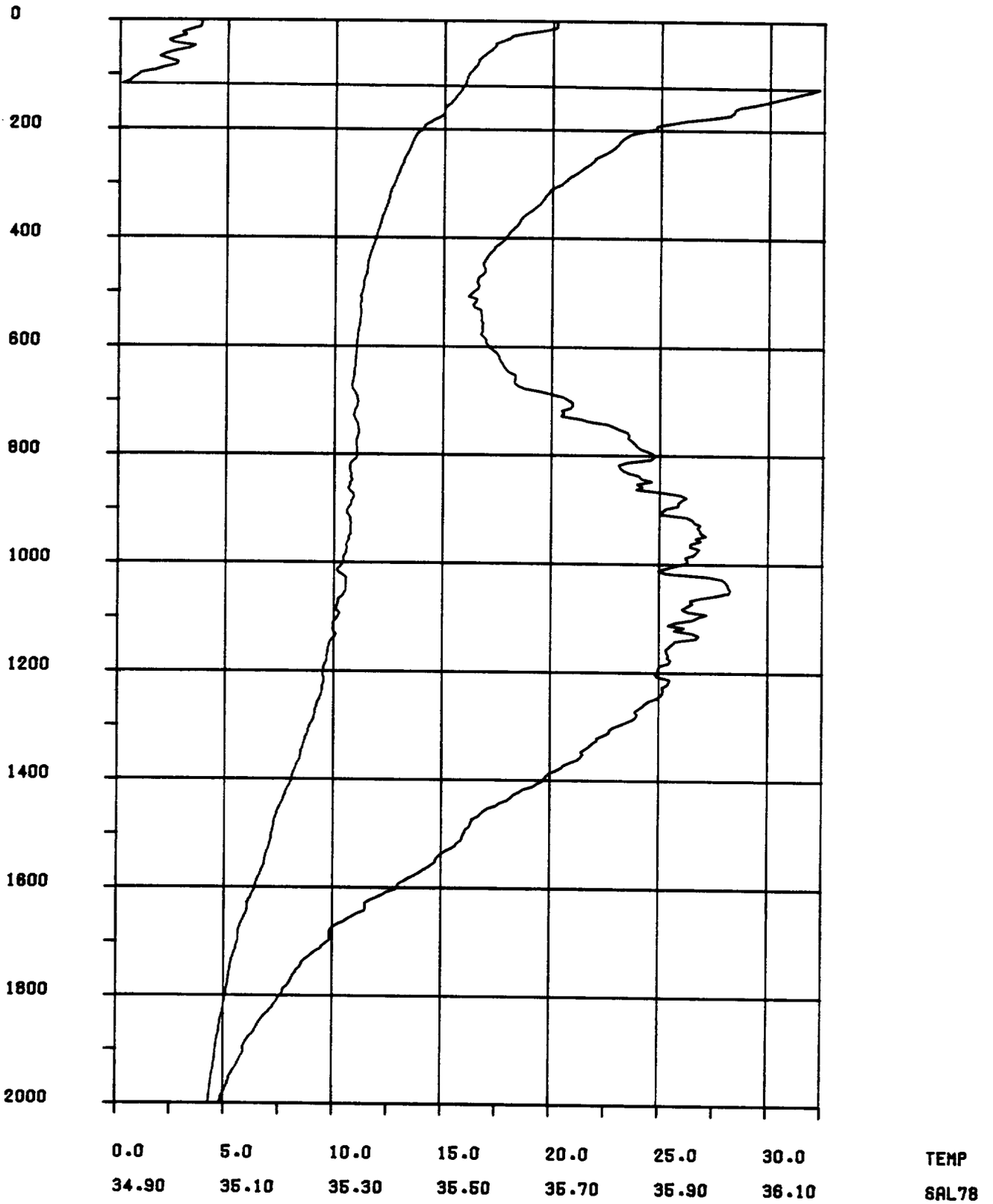


Figure 7

DISCOVERY 130 STN 10561 37 04N 17 10W 07/22/83

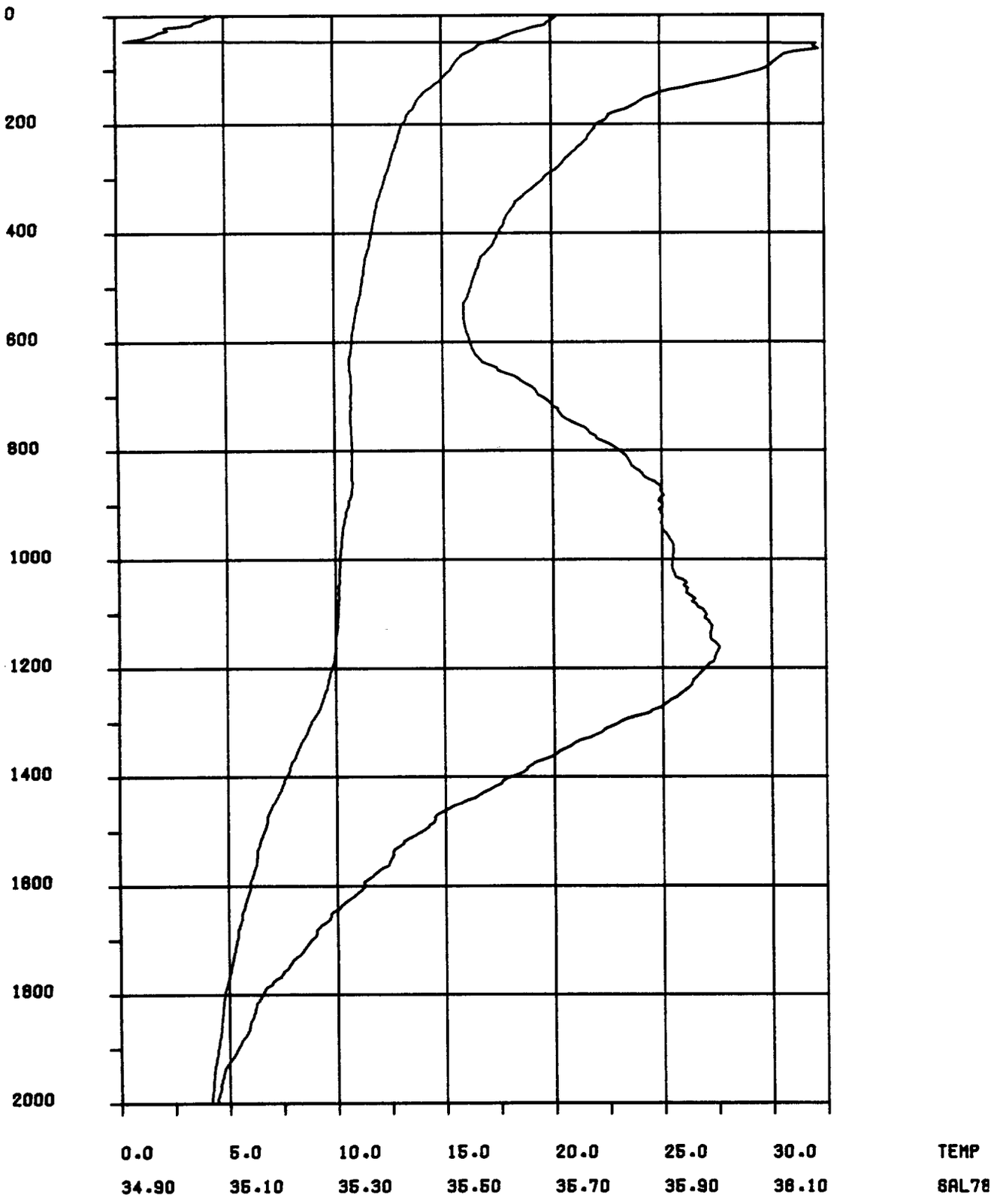


Figure 8

DISCOVERY 130 STN 10562 36 56N 17 33W 07/22/83

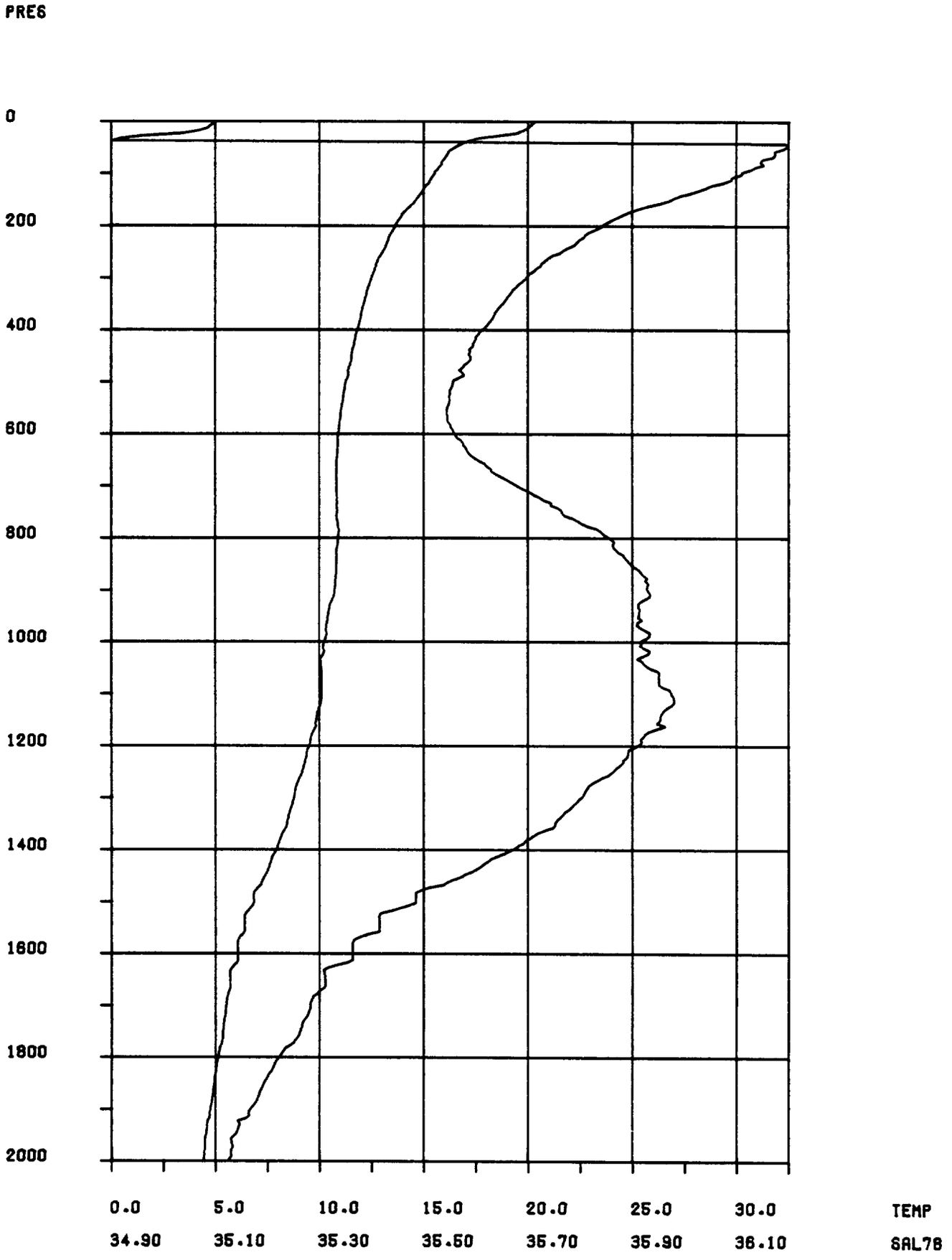


Figure 9

DISCOVERY 130 STN 10563 36 29N 18 31W 07/22/83

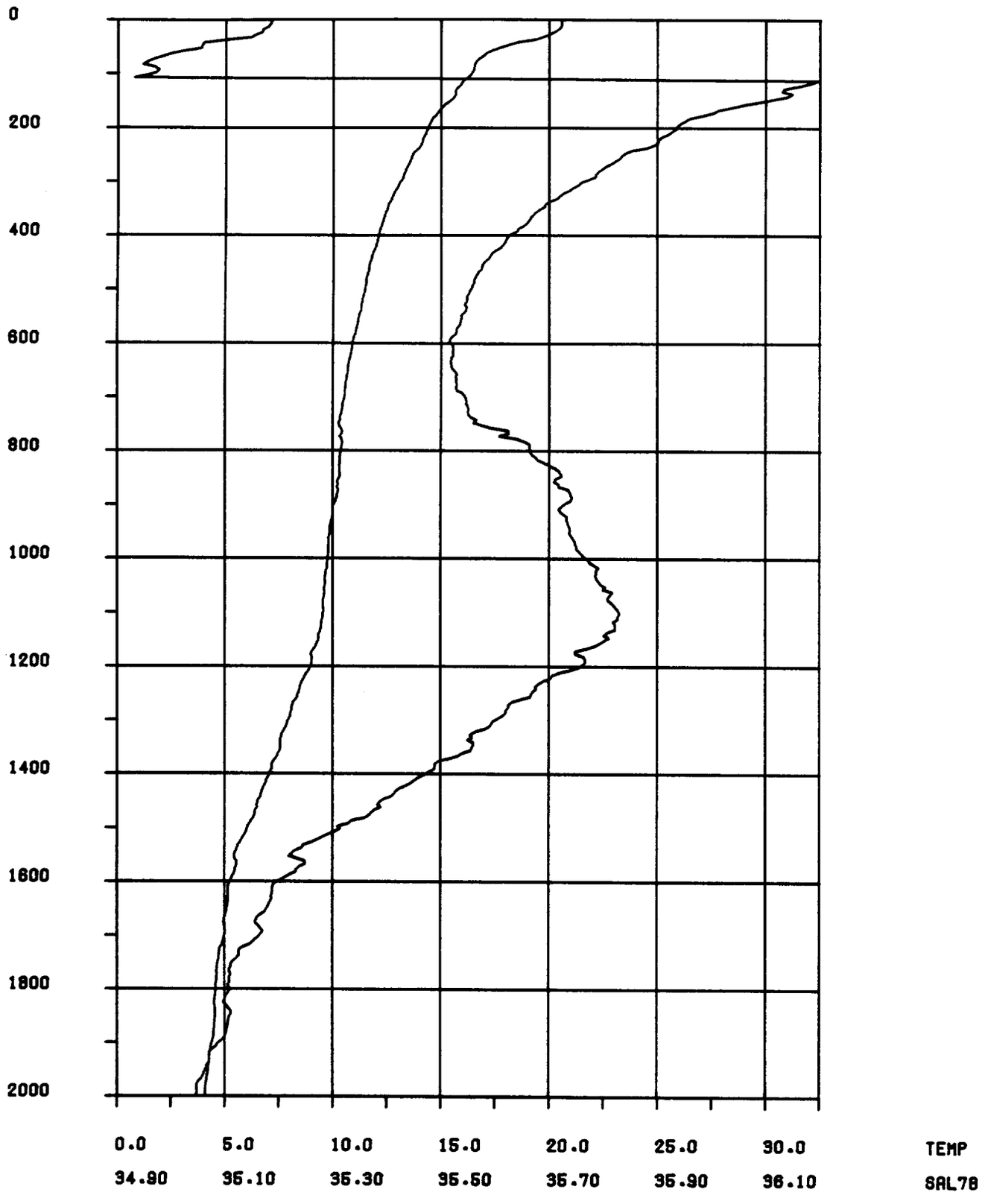


Figure 10

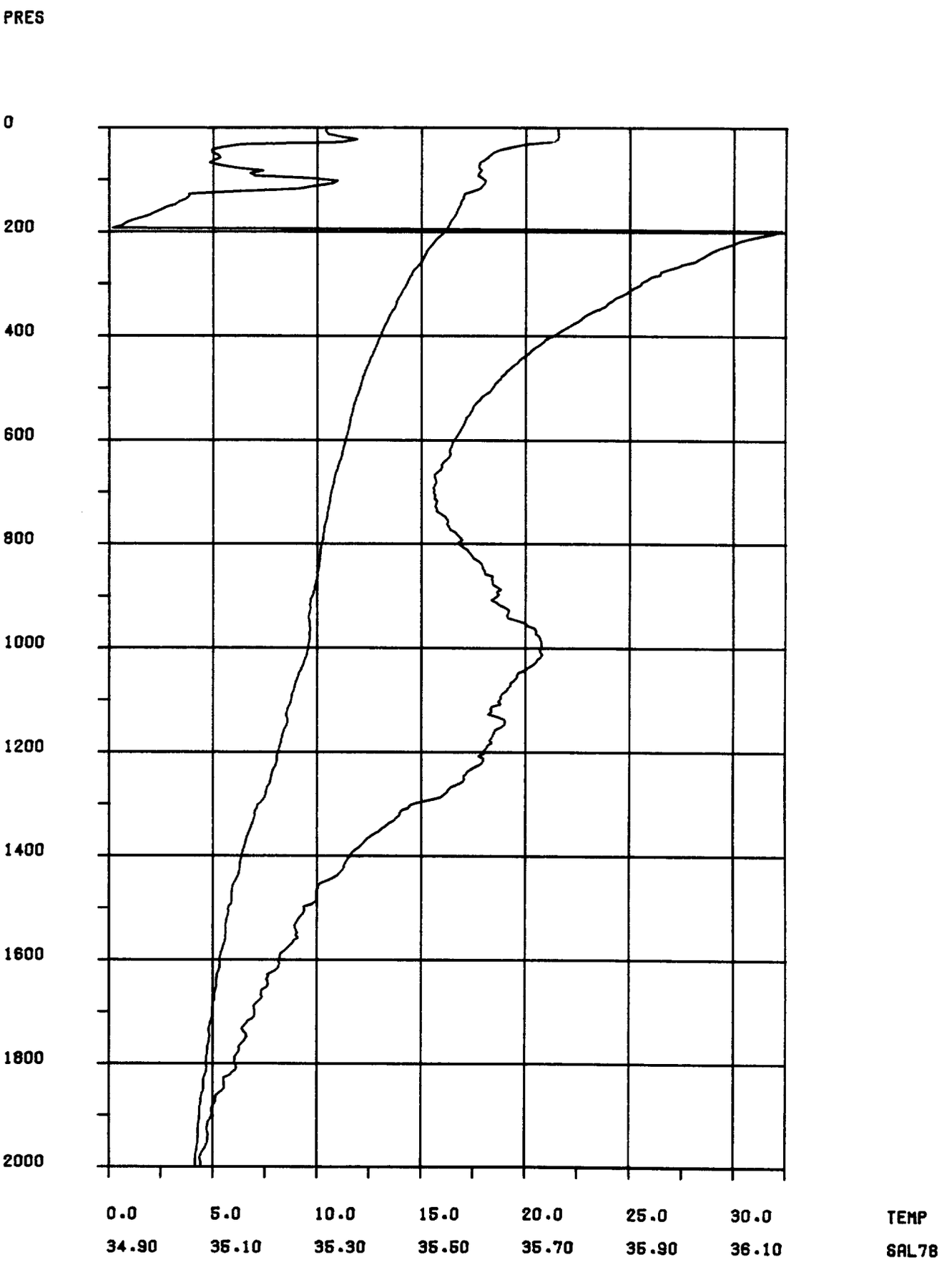
DISCOVERY 130 STN 10584 37 16N 19 39W 07/22/83

Figure 11

DISCOVERY 130 STN 10565 35 18N 20 11W 07/22/83

Figure 12

DISCOVERY 130 STN 10566 33 54N 21 47W 07/22/83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1000
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1400
1600
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5.0
10.0
15.0
20.0
25.0
30.0
TEMP
34.90
35.10
35.30
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35.90
36.10
SAL78
DISCOVERY 130 STN 10567 33 56N 21 46W
07/22/83

Figure 13

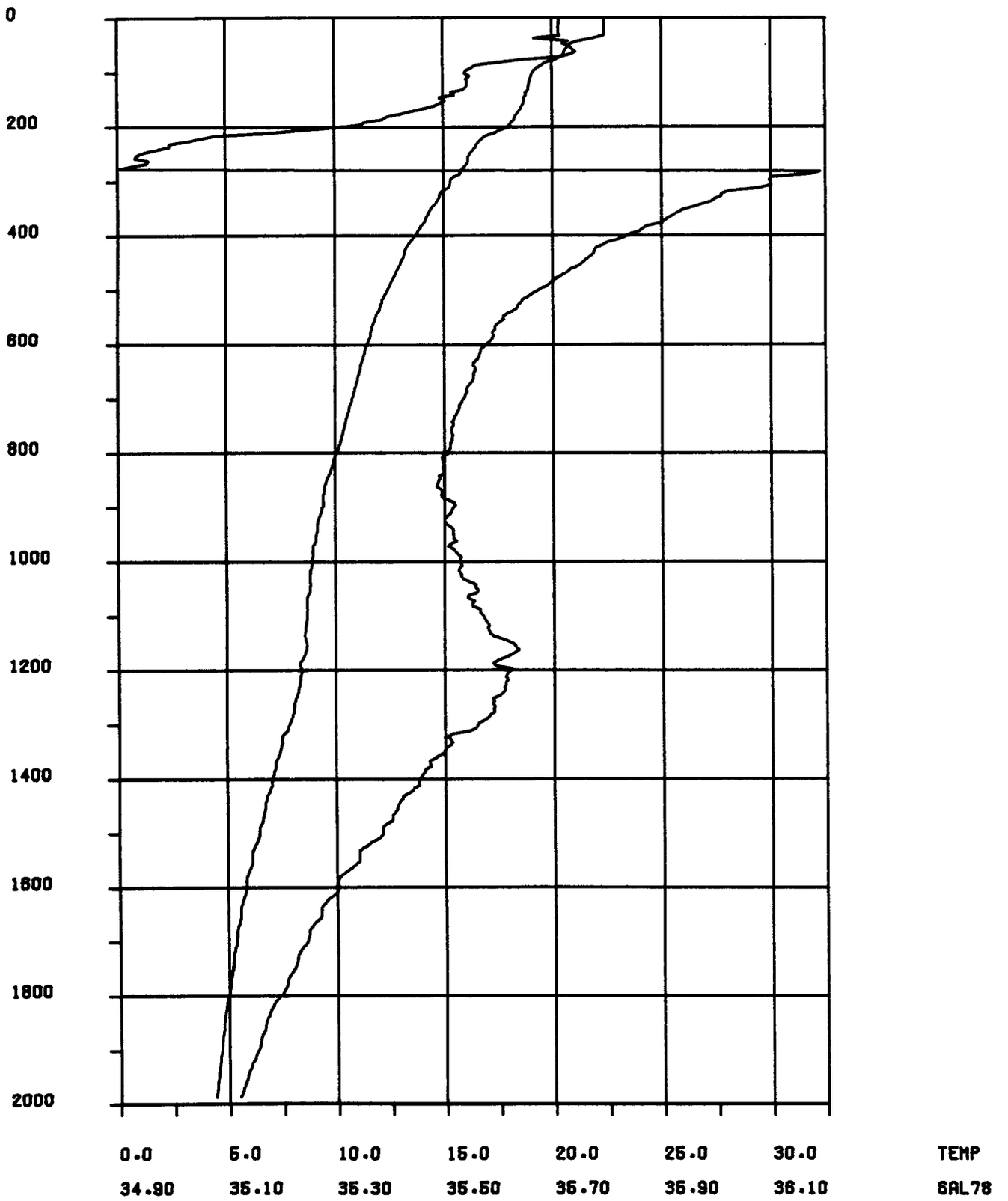


Figure 14

DISCOVERY 130 STN 10568 30 49N 24 11W 07/26/83

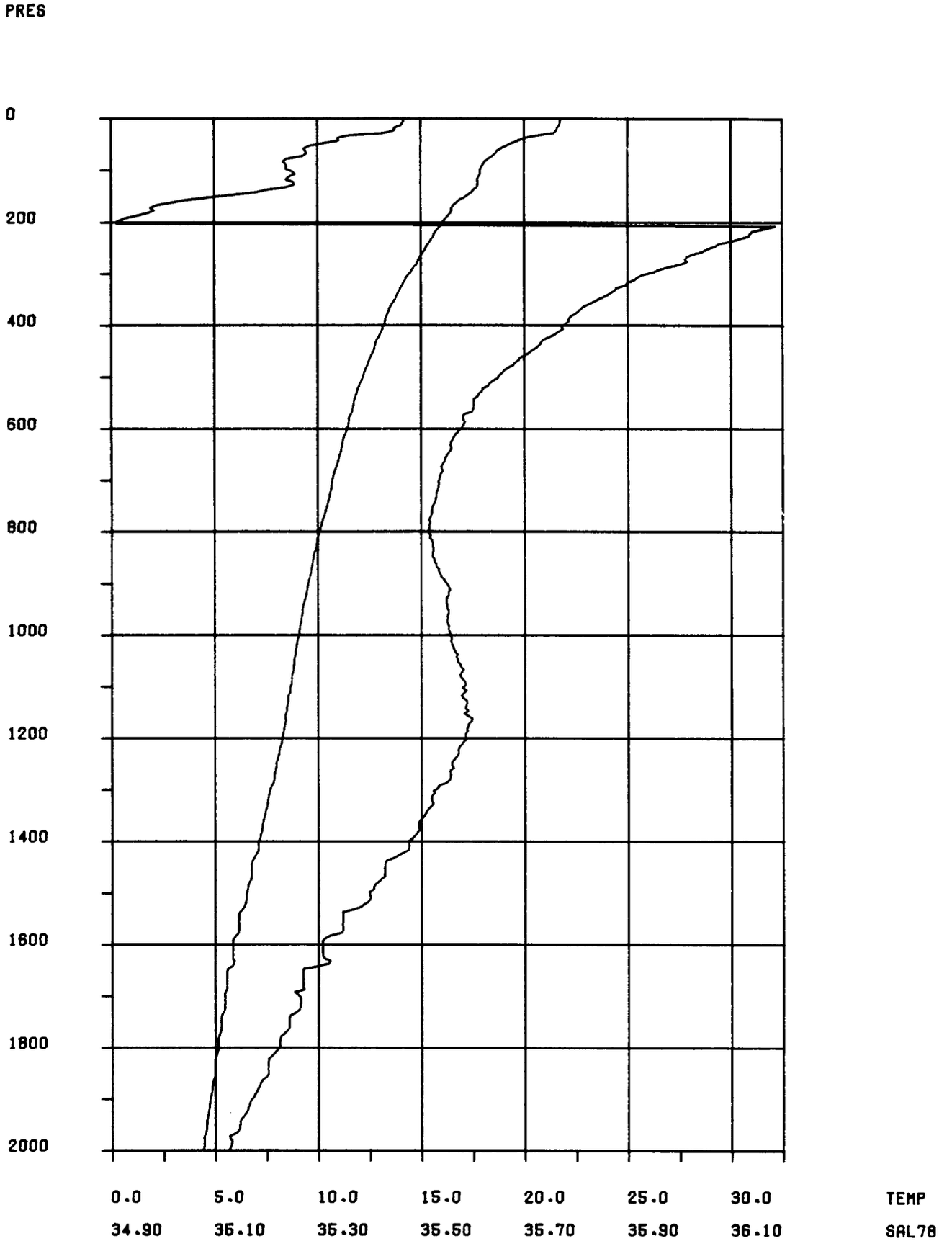
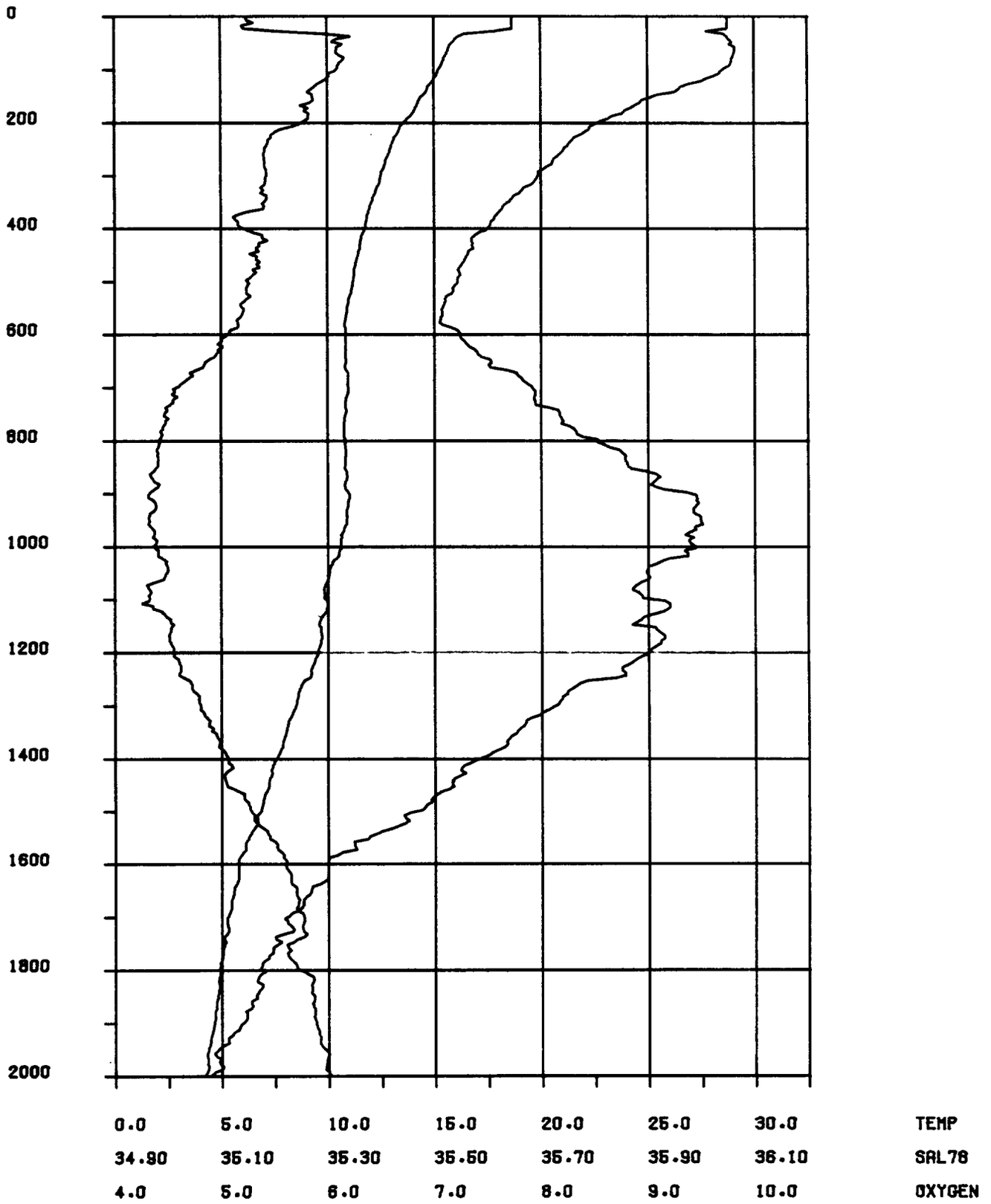


Figure 15

DISCOVERY 130 STN 10569 31 30N 21 51W 07/22/83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TEMP
34.90
35.10
35.30
35.50
35.70
35.90
36.10
SAL78
4.0
5.0
6.0
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8.0
9.0
10.0
OXYGEN
DISCOVERY 130 STN 10571 38 19N 16 00W
07/26/83

Figure 16

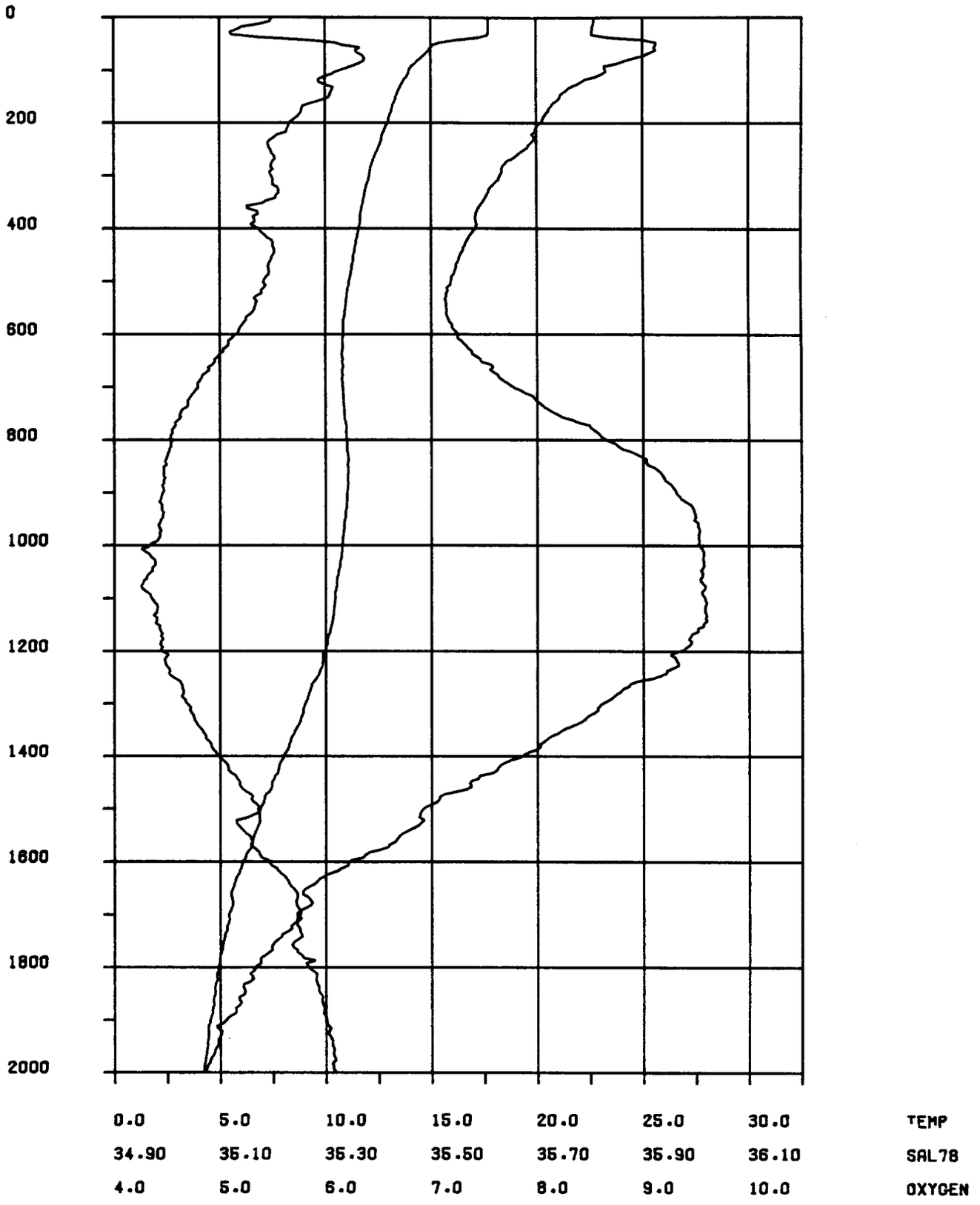


Figure 17

DISCOVERY 130 STN 10672 40 51N 15 30W 07/29/83

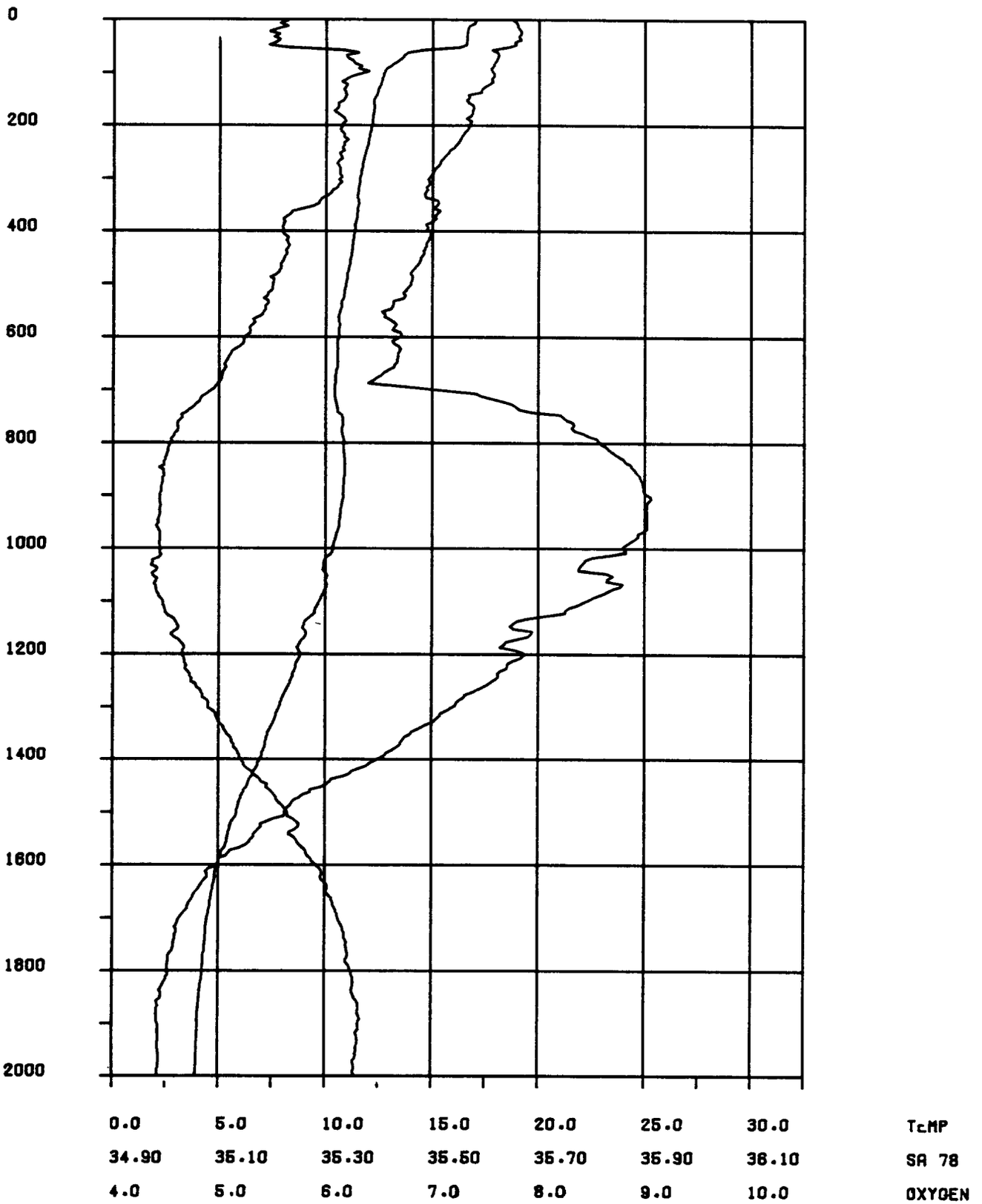


Figure 18

DISCOVERY 130 STN 10573 44 19N 13 44W 07/29/83

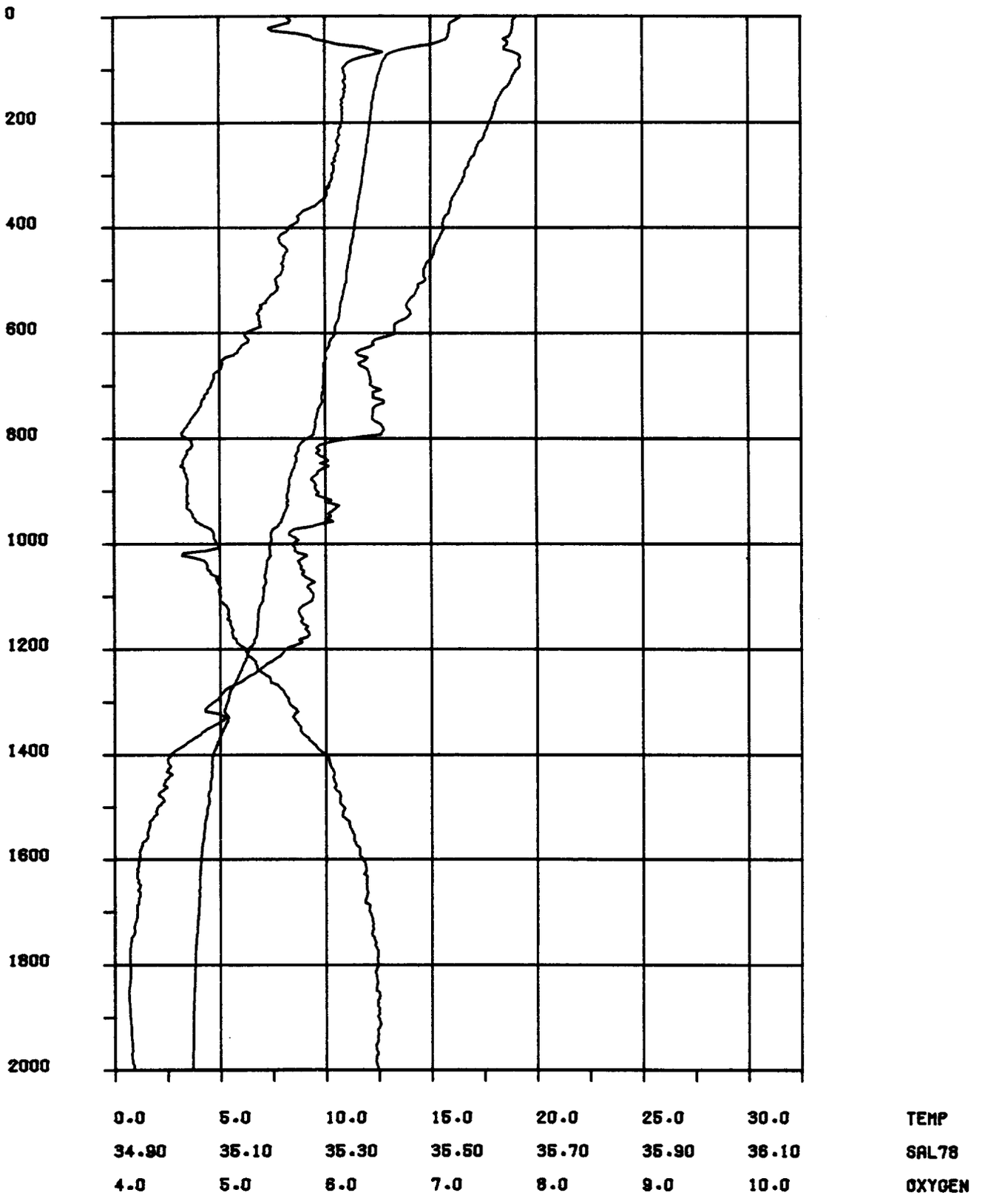


Figure 19

DISCOVERY 130 STN 10574 46 20N 13 58W 07/26/83

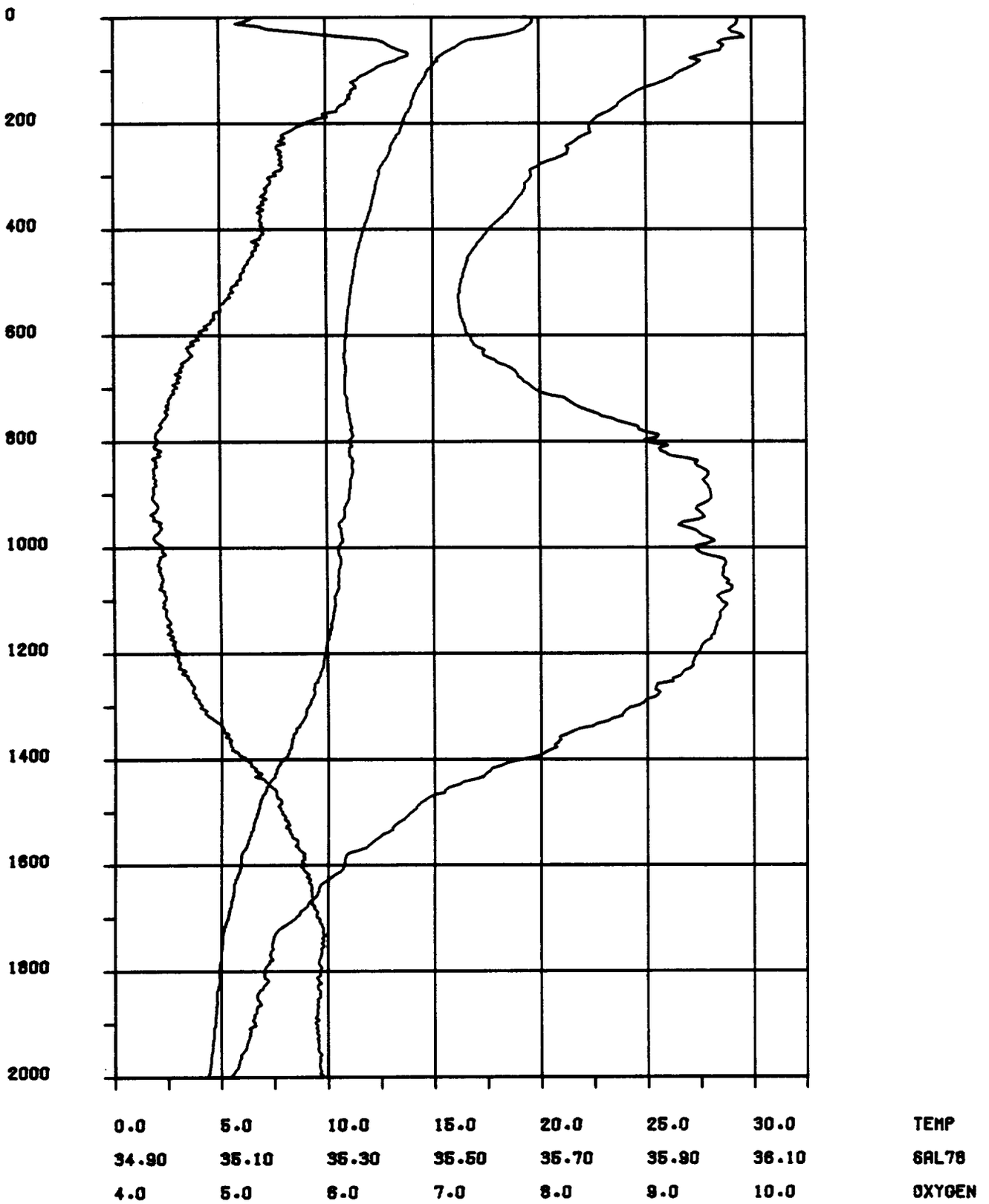


Figure 20

DISCOVERY 130 STN 10575 37 19N 15 39W 07/26/83

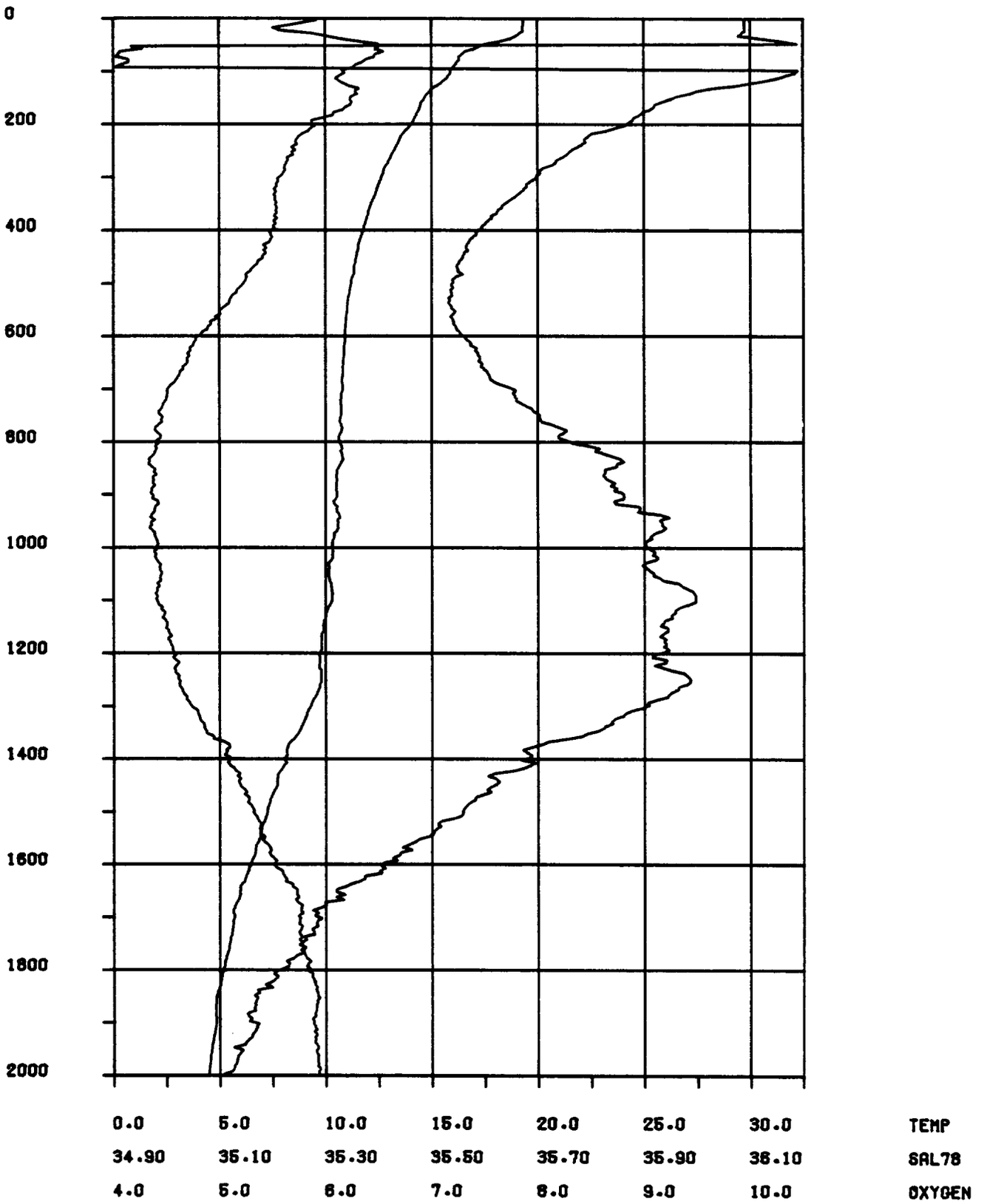


Figure 21

DISCOVERY 130 STN 10576 37 28N 15 43W 07/26/83

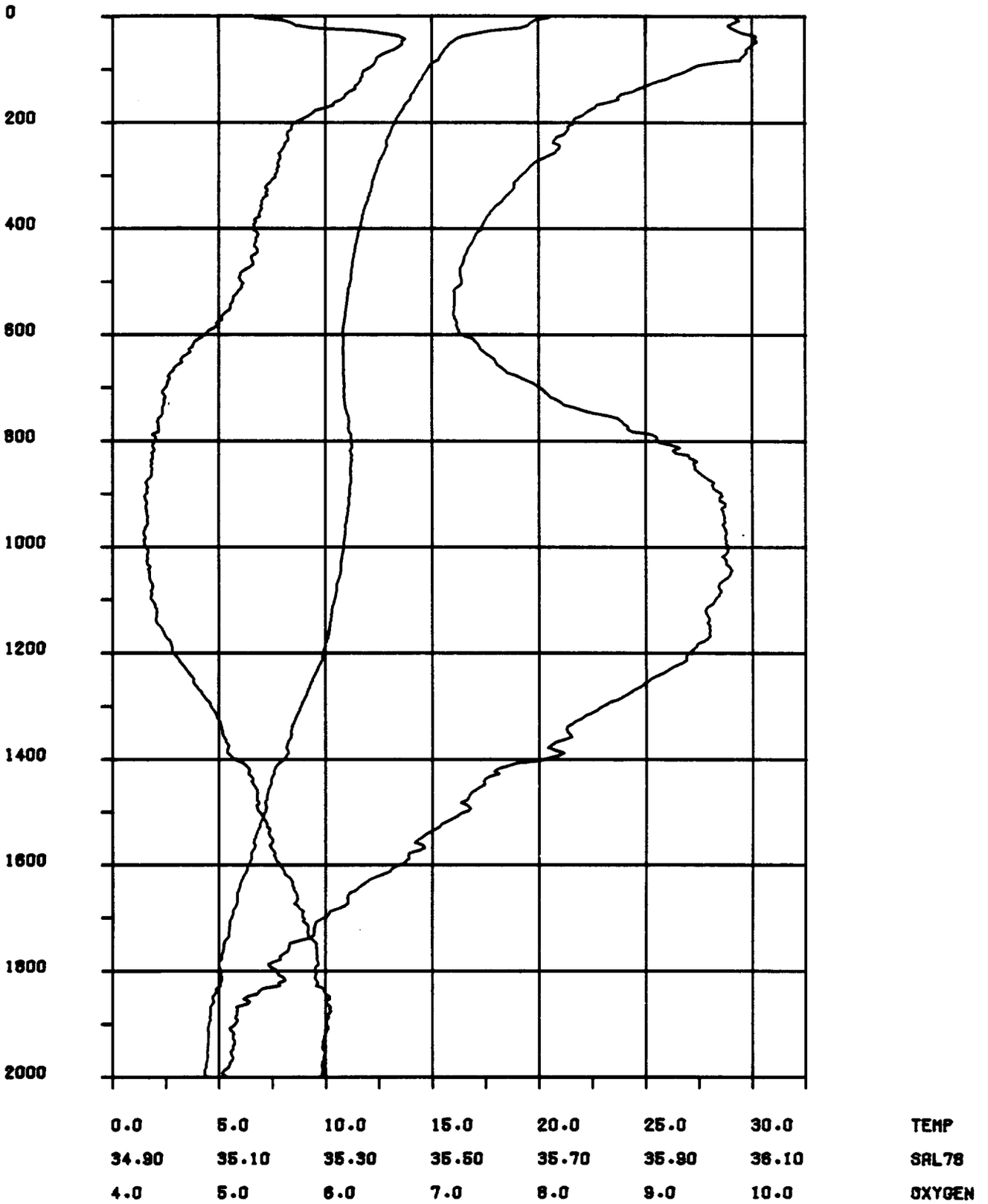
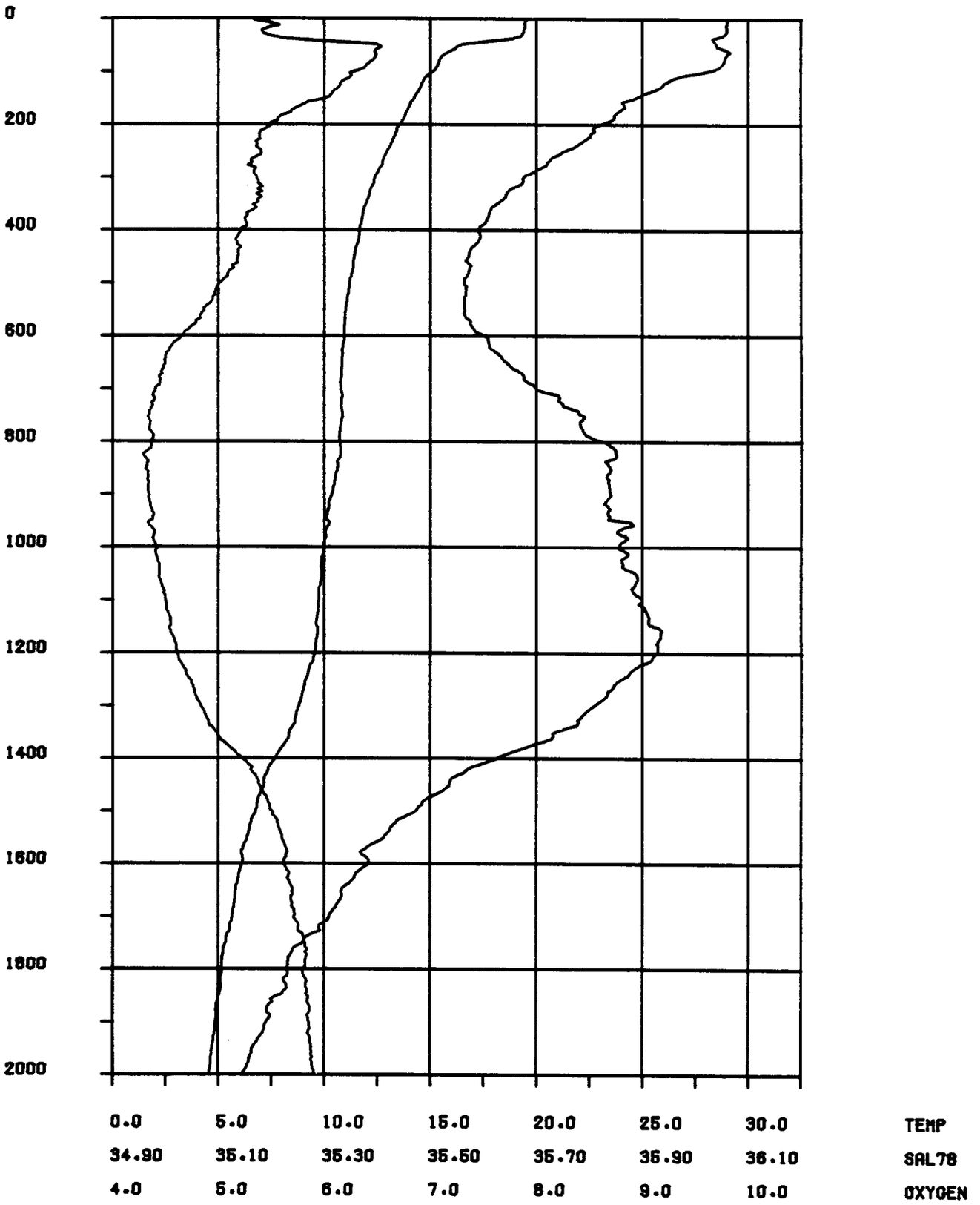


Figure 22

DISCOVERY 130 STN 10582 37 16N 15 35W 07/26/83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1000
1200
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1600
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30.0
TEMP
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35.30
35.50
35.70
35.90
36.10
SAL78
4.0
5.0
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8.0
9.0
10.0
OXYGEN
DISCOVERY 130 STN 10583 37 31N 15 47W
07/26/83

Figure 23

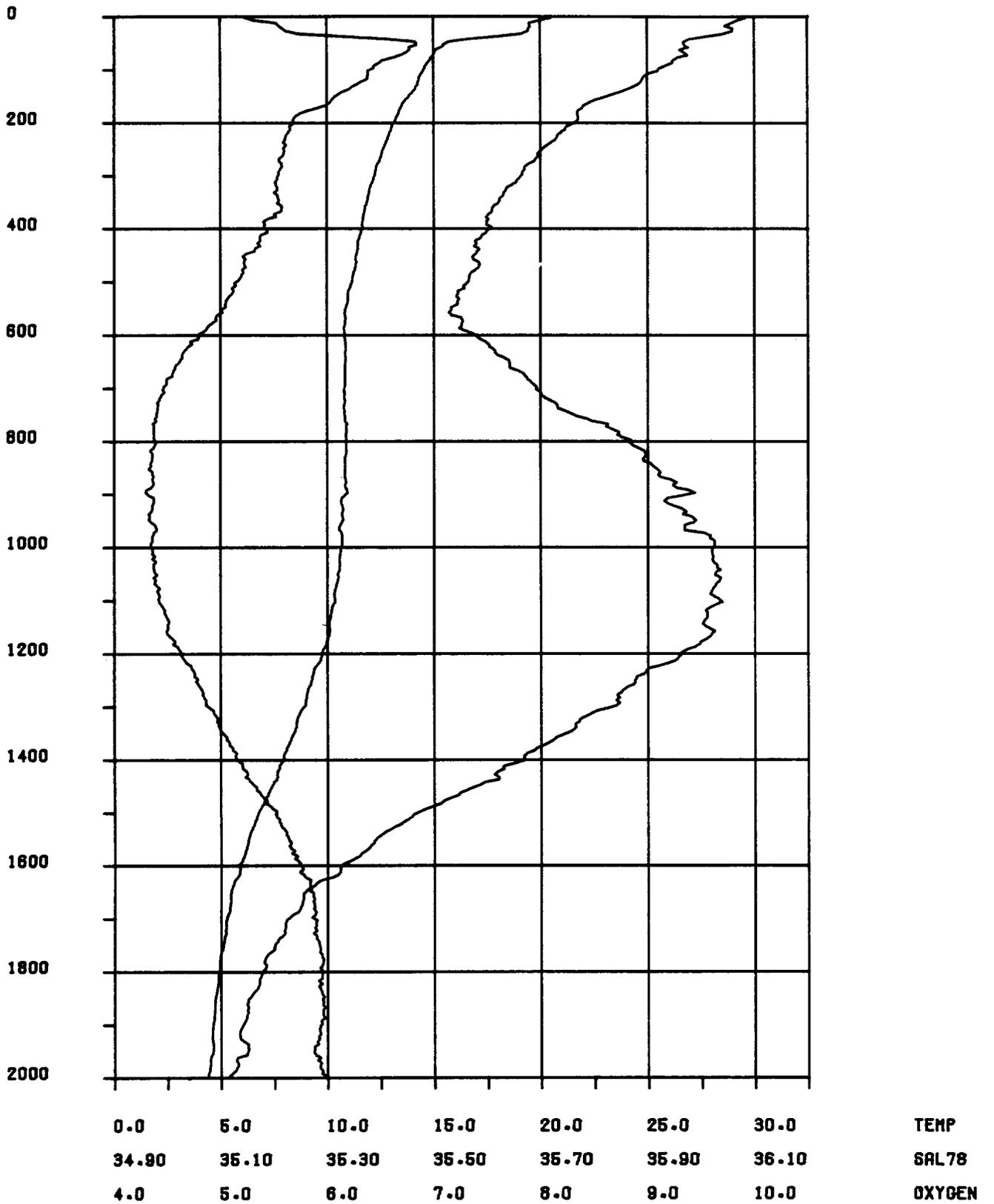


Figure 24

DISCOVERY 130 STN 10584 37 40N 15 37W 07/27/83

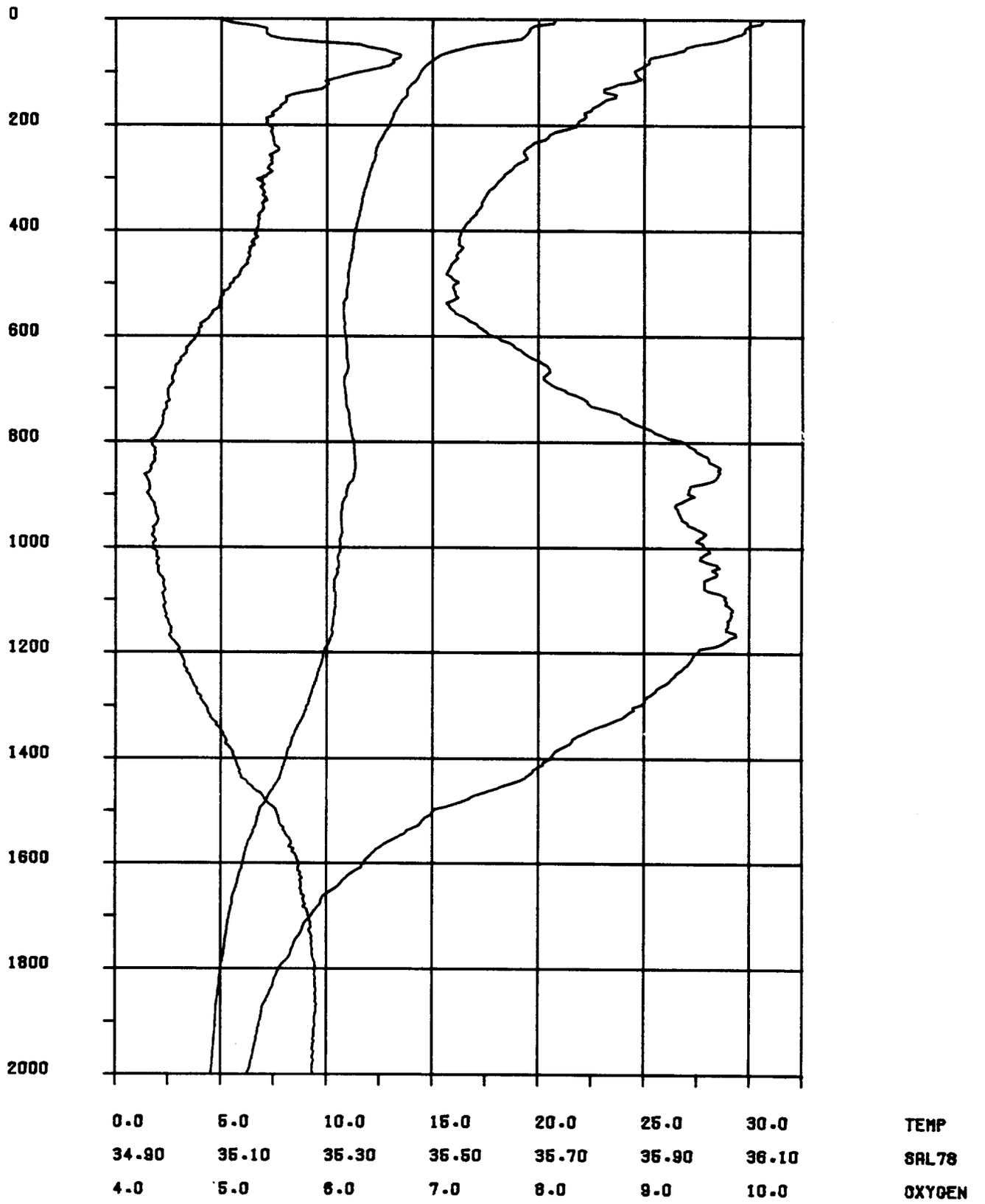


Figure 25

DISCOVERY 130 STN 10585 37 34N 15 21W 07/27/83

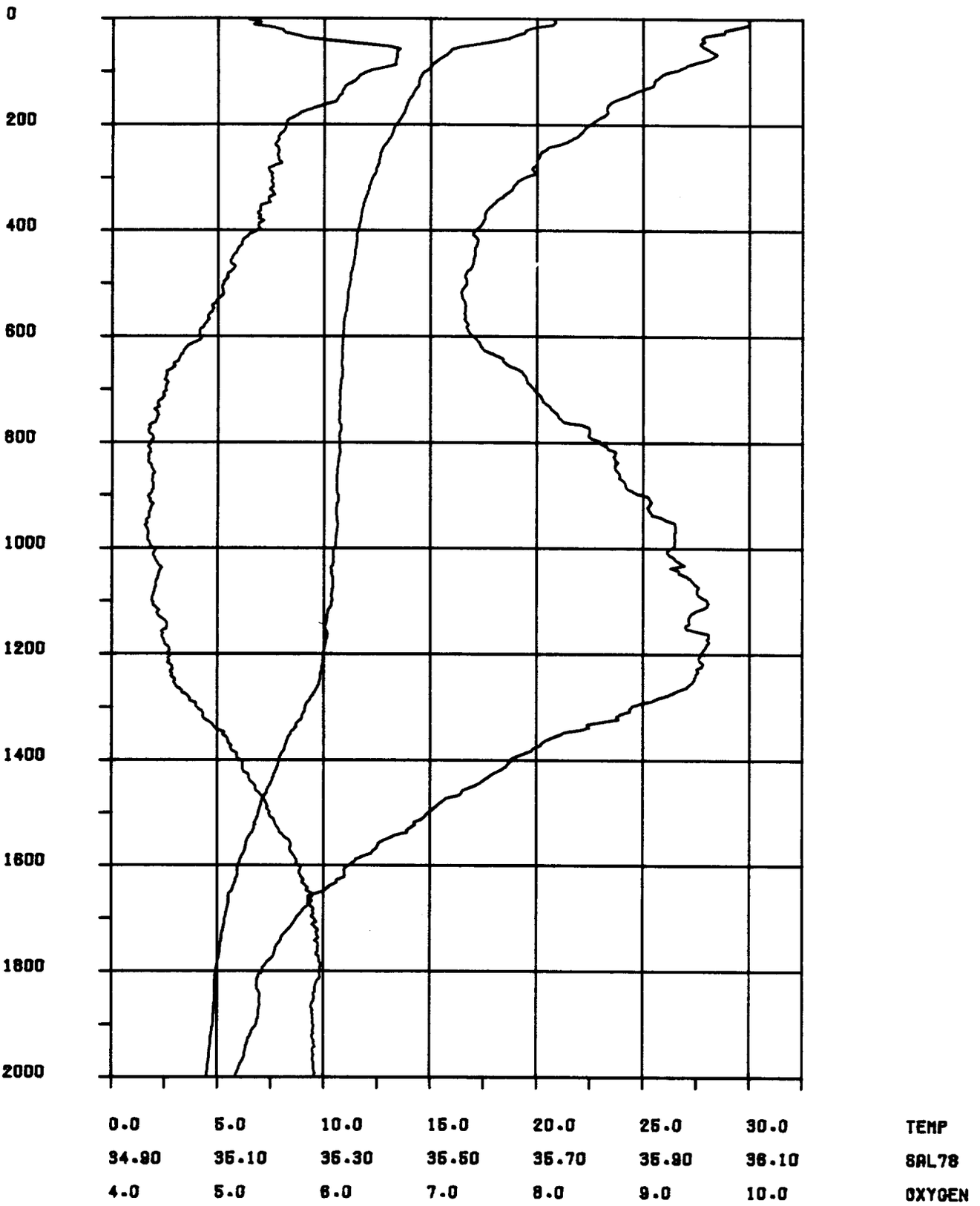


Figure 26

DISCOVERY 130 STN 10586 37 29N 15 38W 07/27/83

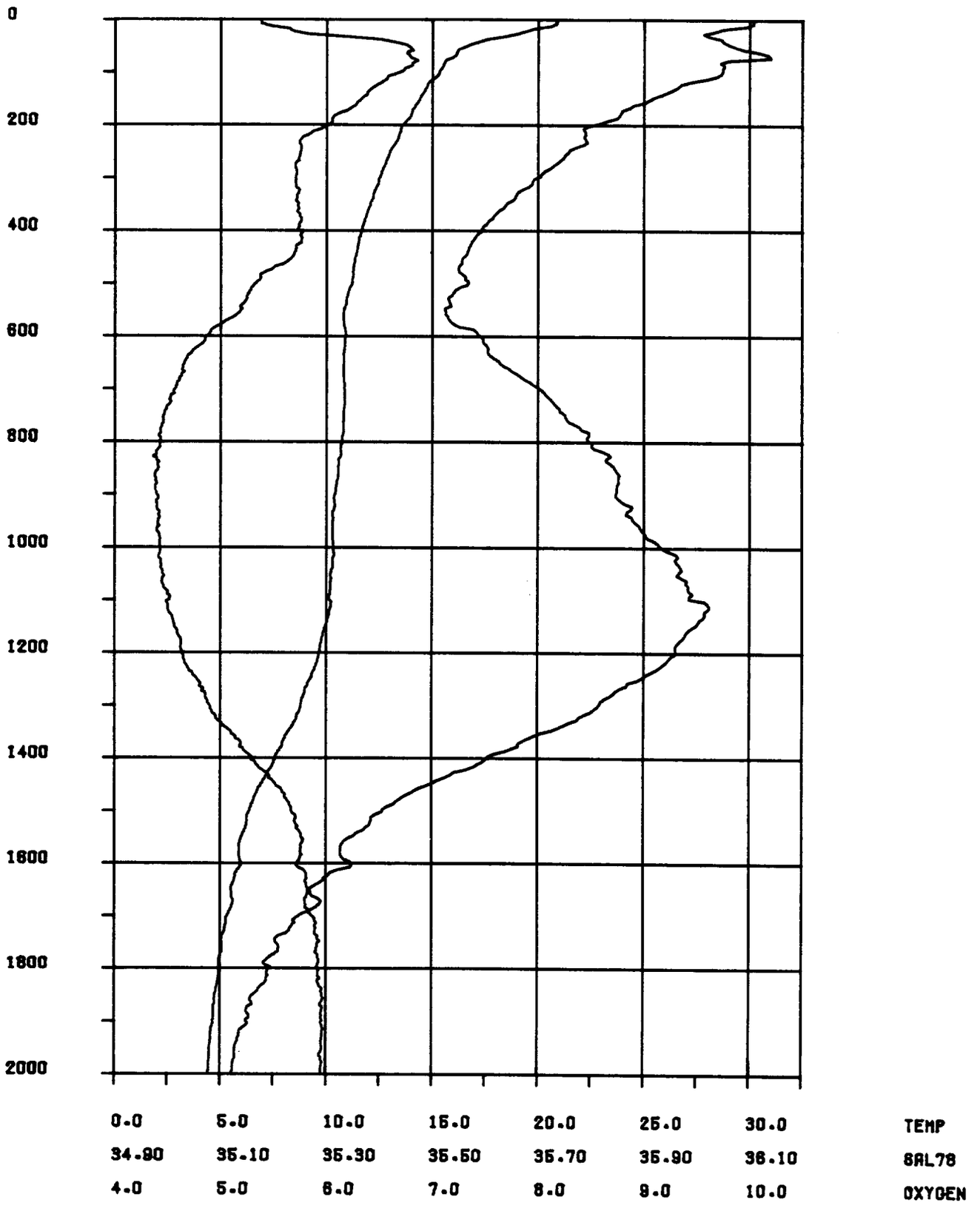


Figure 27

DISCOVERY 130 STN 10587 37 35N 15 38W 07/27/83

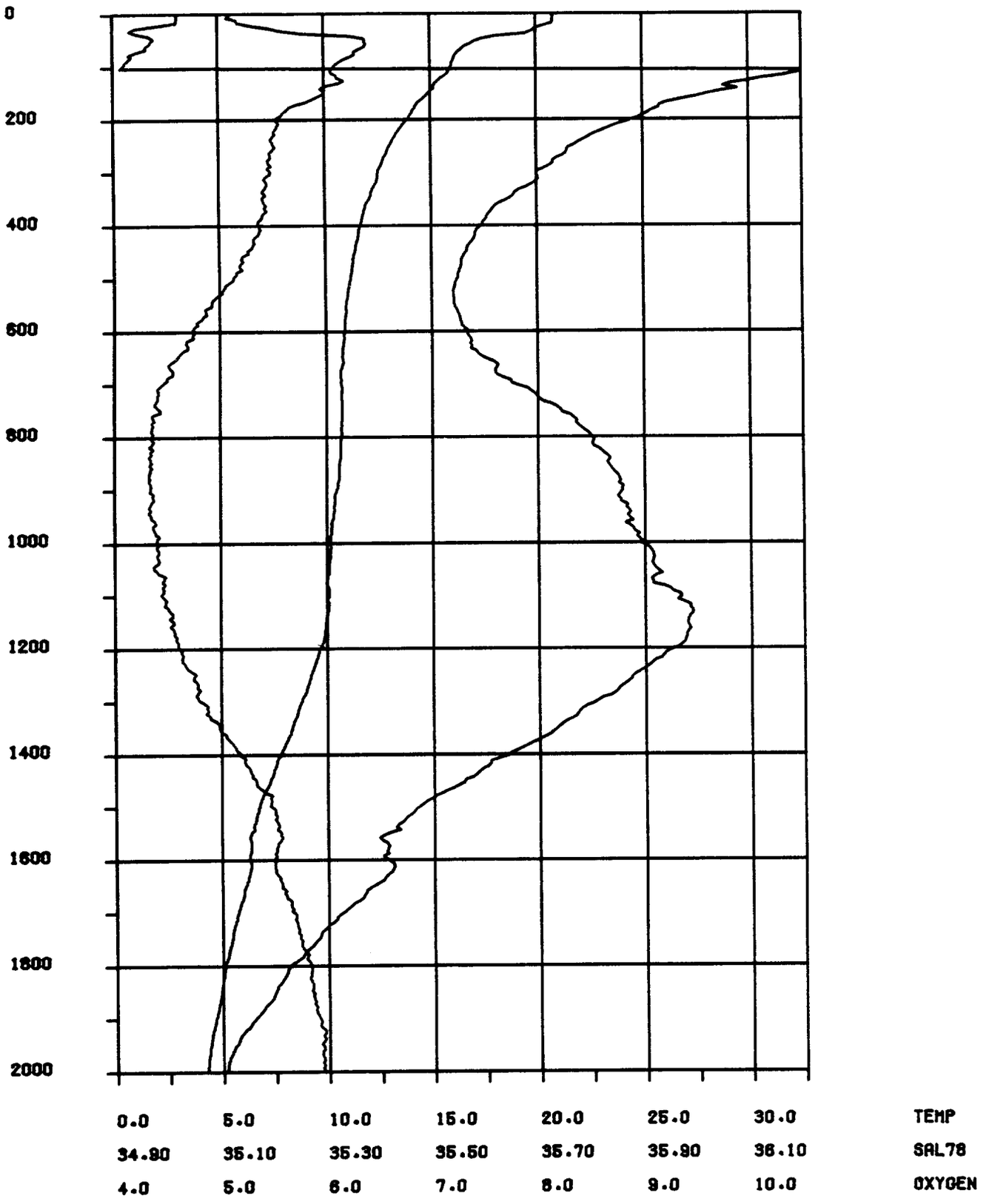


Figure 28

DISCOVERY 130 STN 10588 37 04N 16 15W 07/27/83

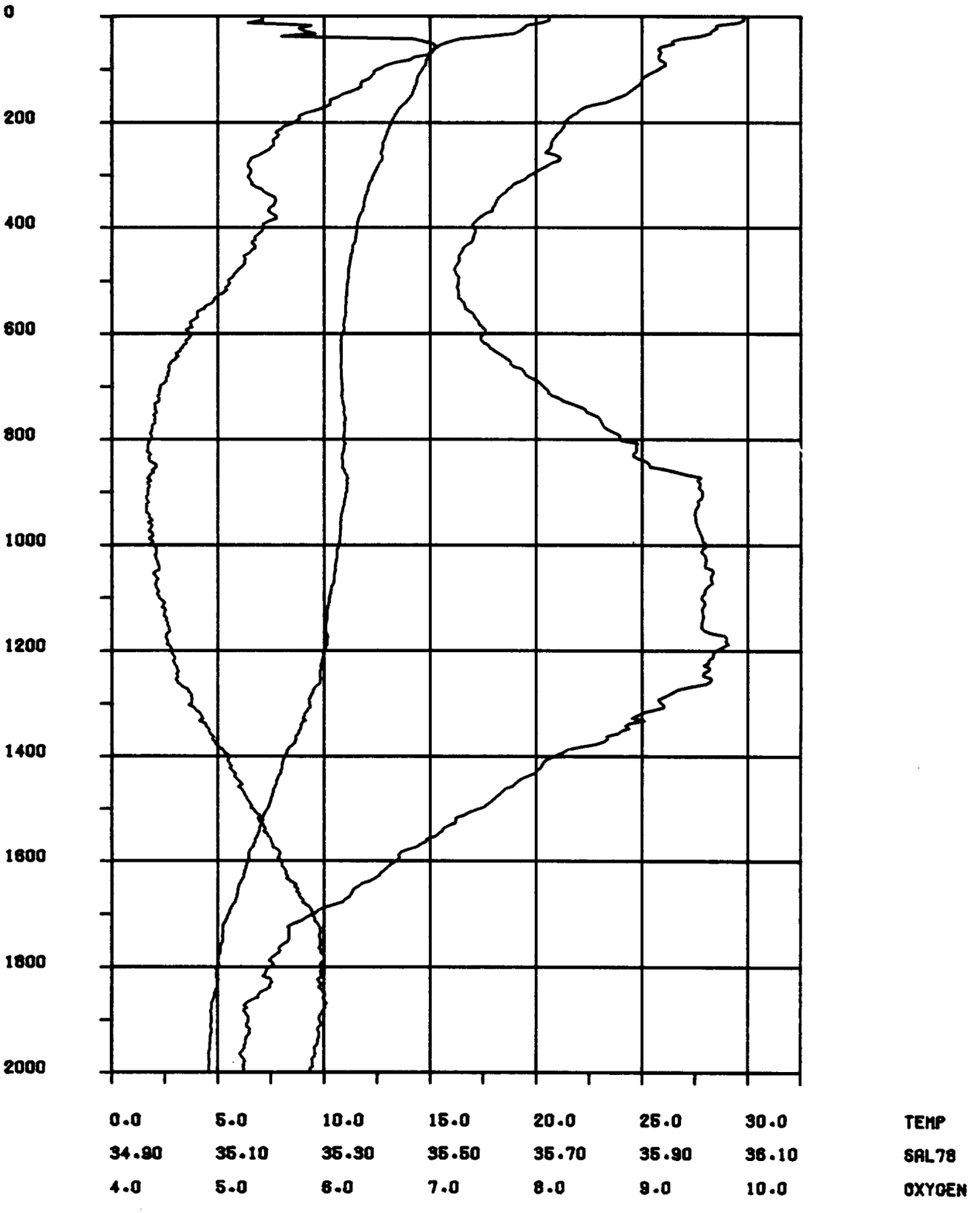
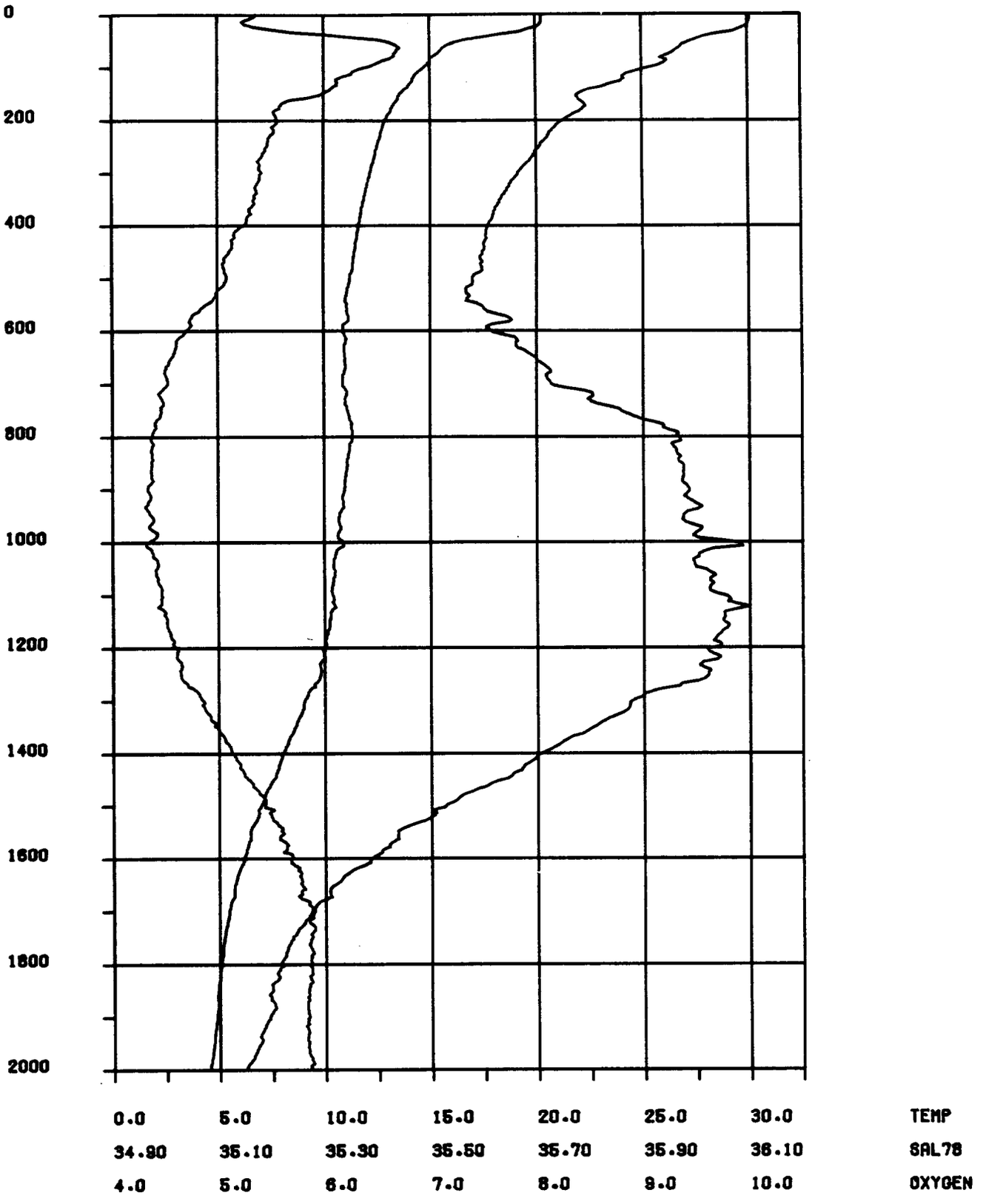


Figure 29

DISCOVERY 130 STN 10591 37 29N 15 25W 07/27/83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1600
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5.0
10.0
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25.0
30.0
TEMP
34.90
35.10
35.30
35.50
35.70
35.90
36.10
SAL78
4.0
5.0
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9.0
10.0
OXYGEN
DISCOVERY 130 STN 10592 37 43N 15 28W
07/27/83

Figure 30

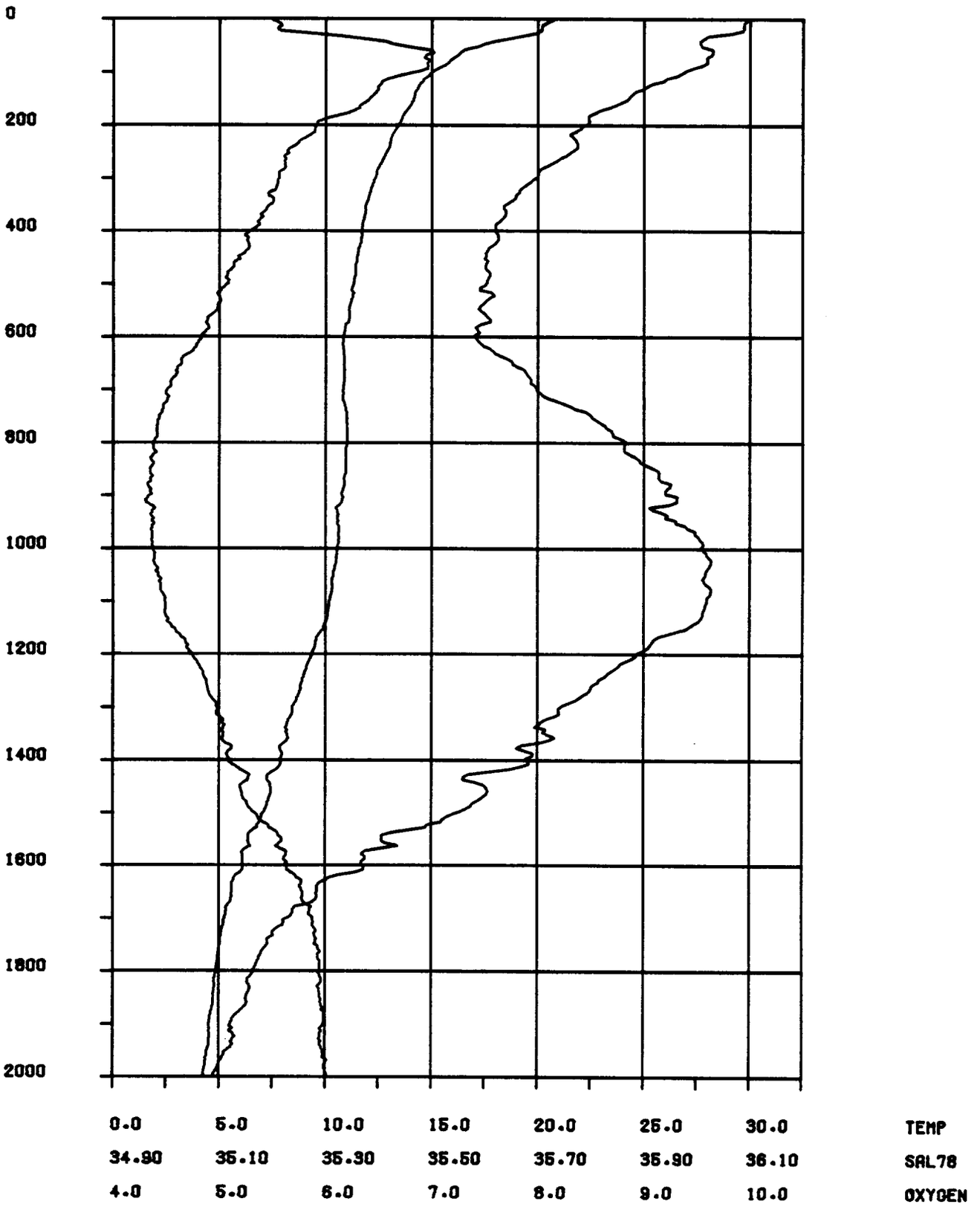
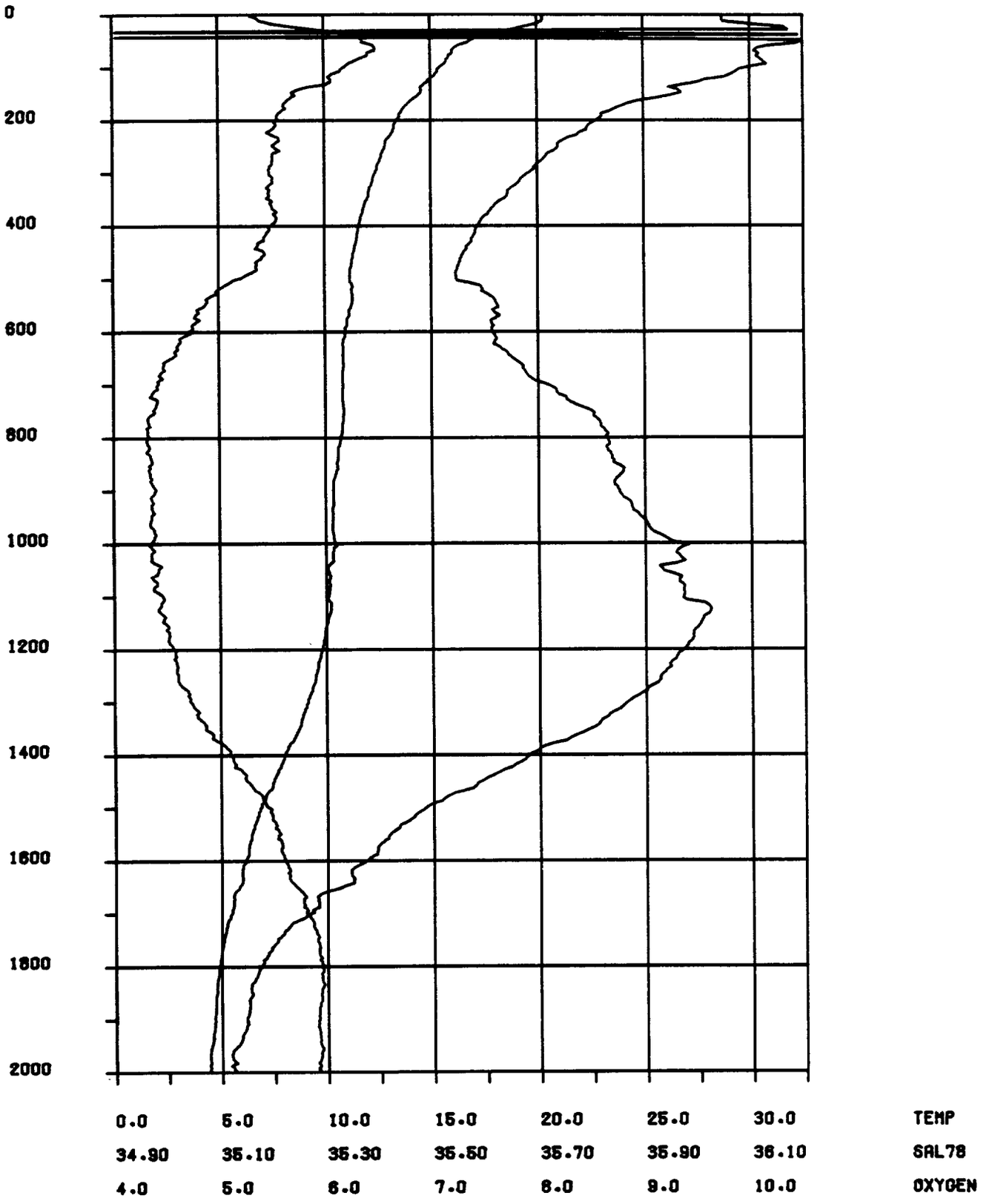


Figure 31

DISCOVERY 130 STN 10693 37 40N 15 34W 07/27/83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30.0
TEMP
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35.30
35.50
35.70
35.90
36.10
SAL78
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5.0
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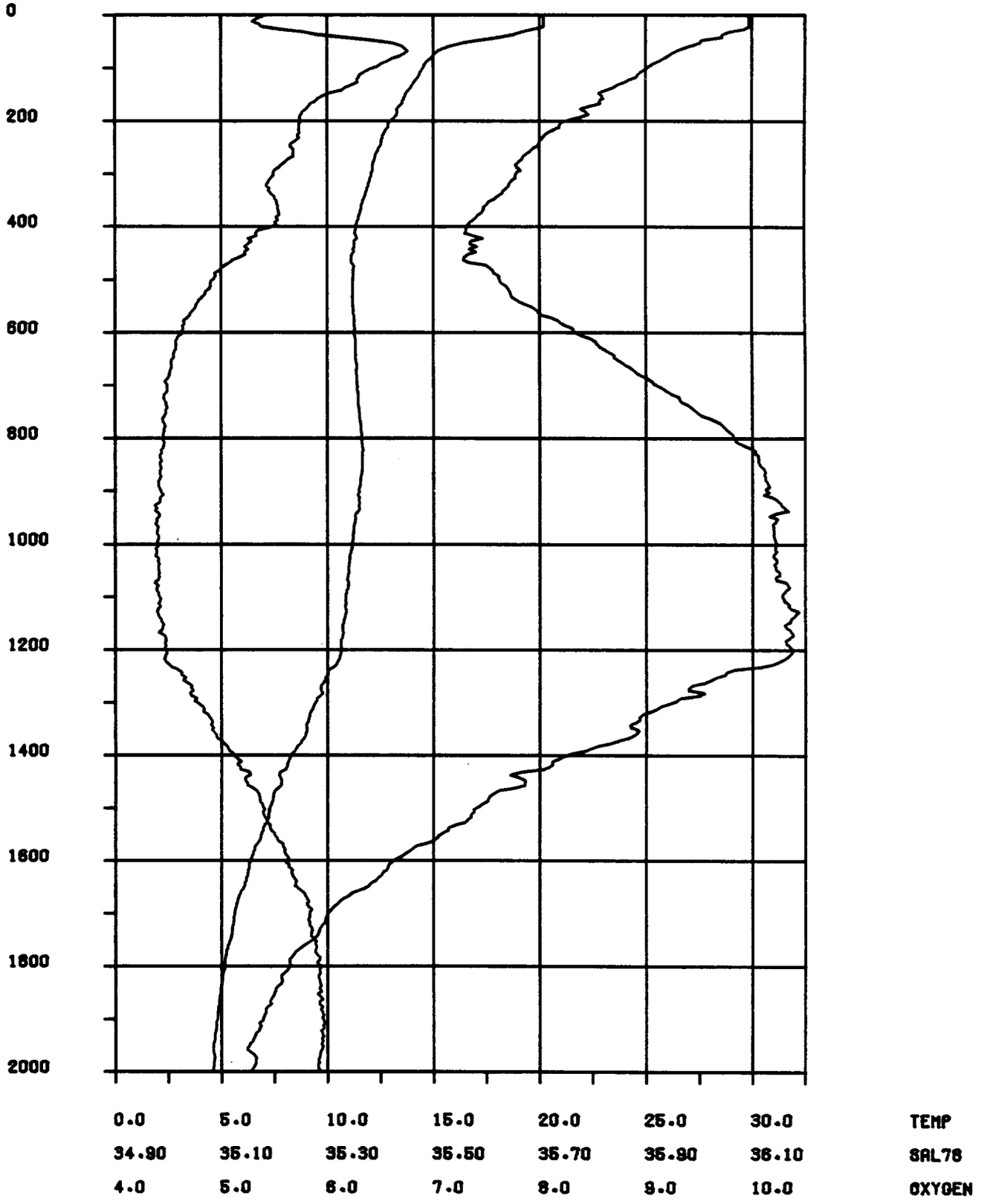
9.0
10.0
OXYGEN
DISCOVERY 130 STN 10594 37 36N 15 38W
07/27/83

Figure 32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1000
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1400
1600
1800
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15.0
20.0
25.0
30.0
TEMP
34.90
35.10
35.30
35.50
35.70
35.90
36.10
SAL78
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5.0
6.0
7.0
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10.0
OXYGEN
DISCOVERY 190 STN 10595 37 42N 15 19W
07/27/83

Figure 33

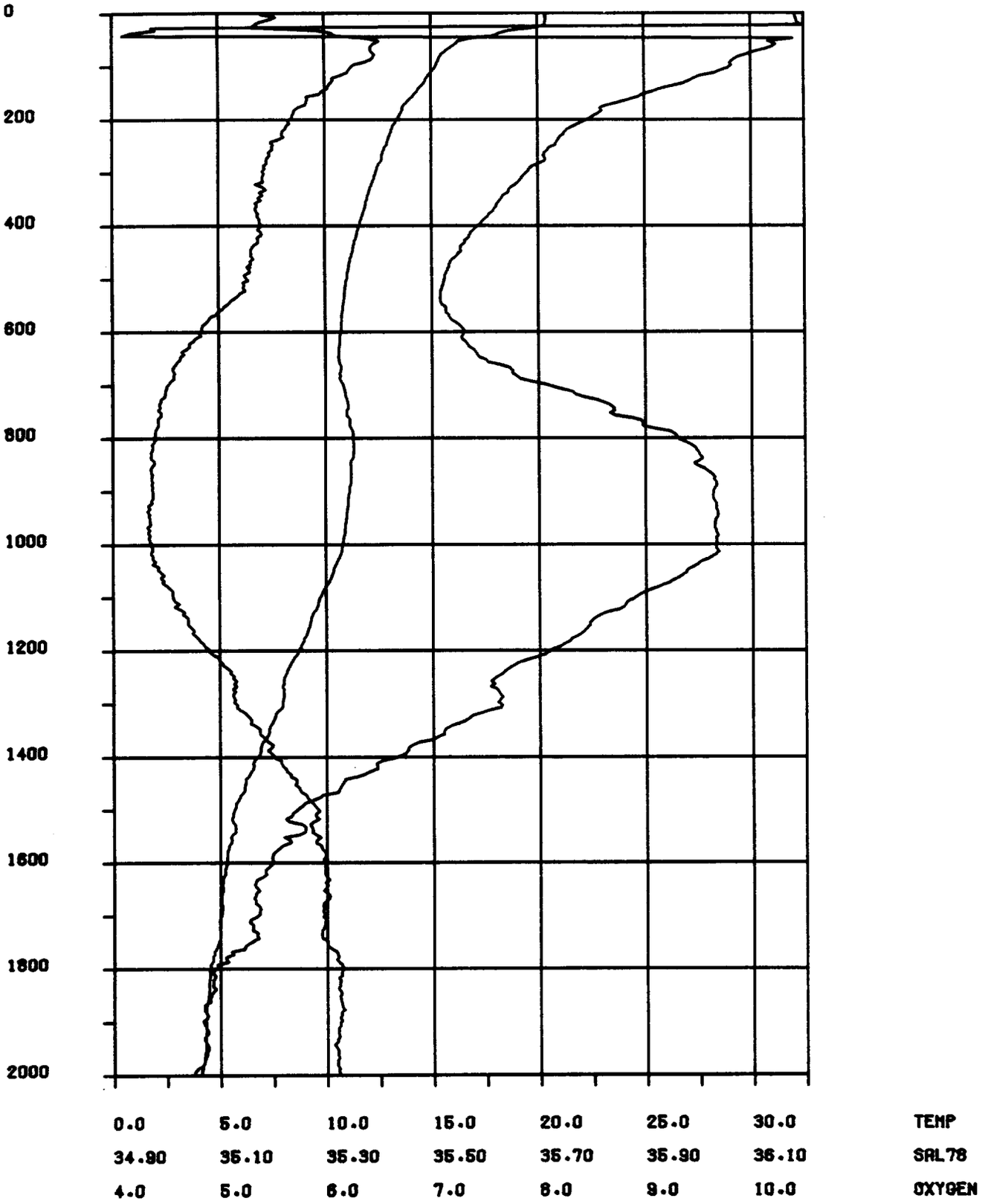

Figure 34

DISCOVERY 130 STN 10596 37 50N 16 31W 07/27/83

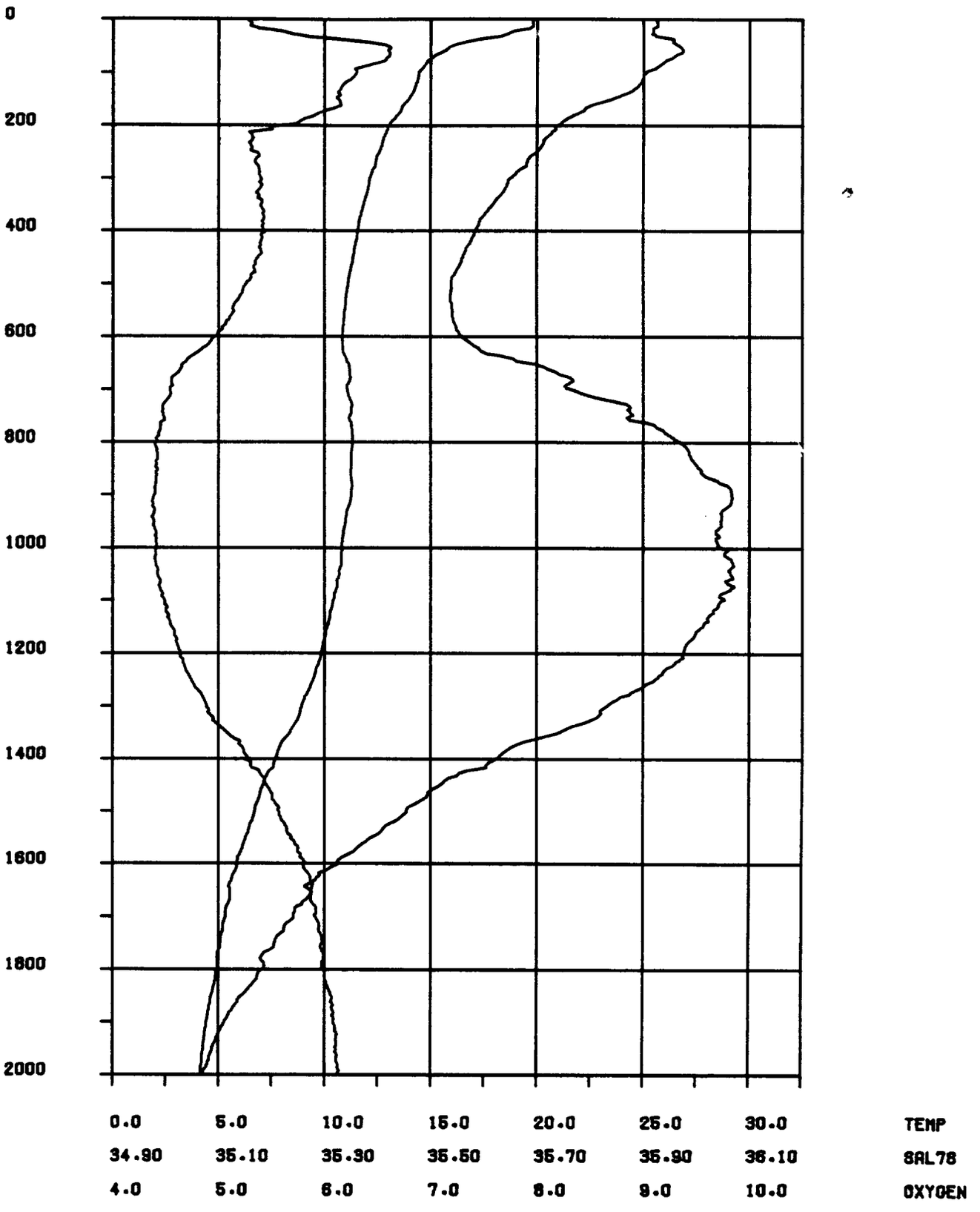

Figure 35

DISCOVERY 130 STN 10597 38 40N 15 16W 07/27/83

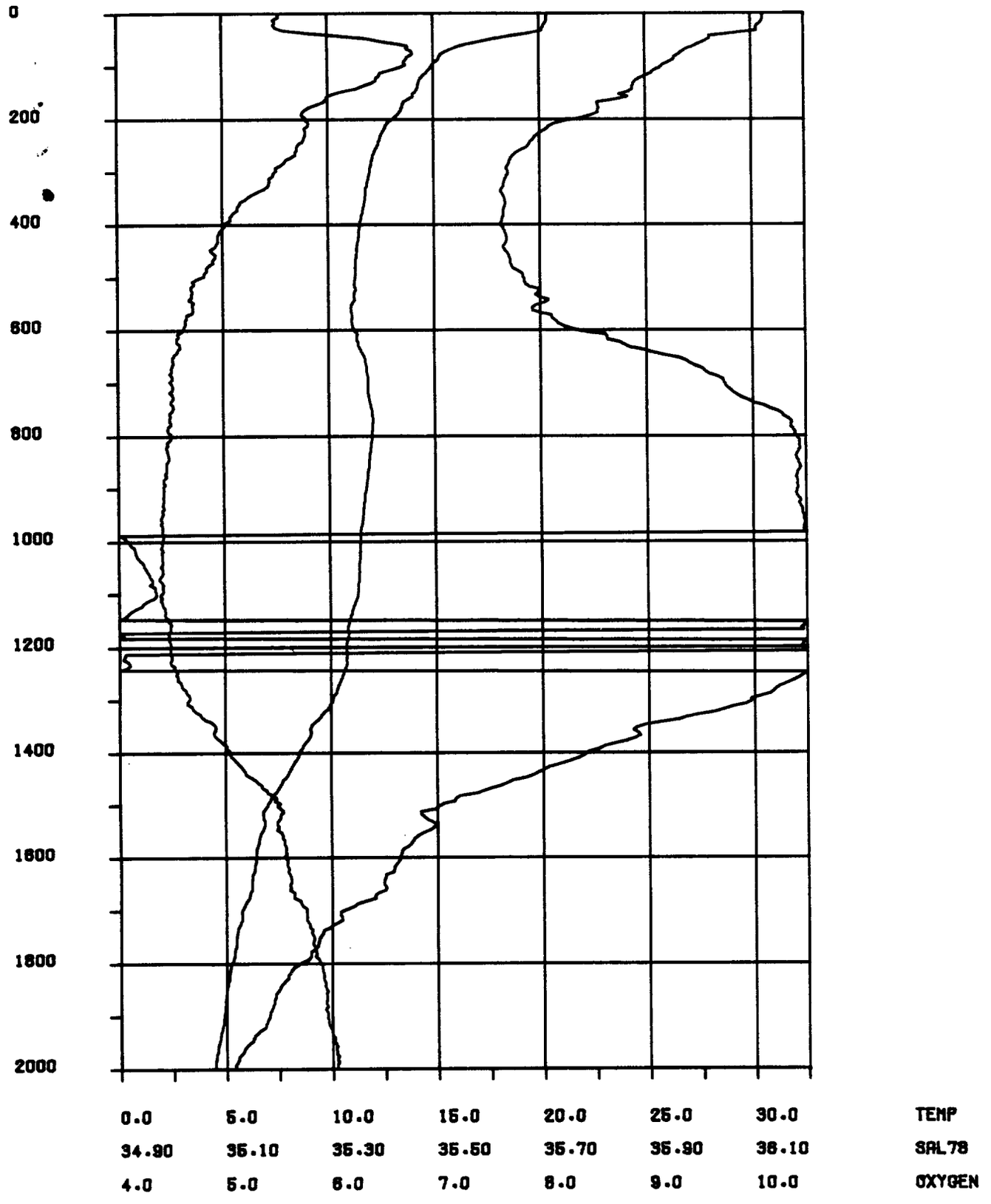

Figure 36

DISCOVERY 130 STN 10598 38 05N 15 10W 07/27/83

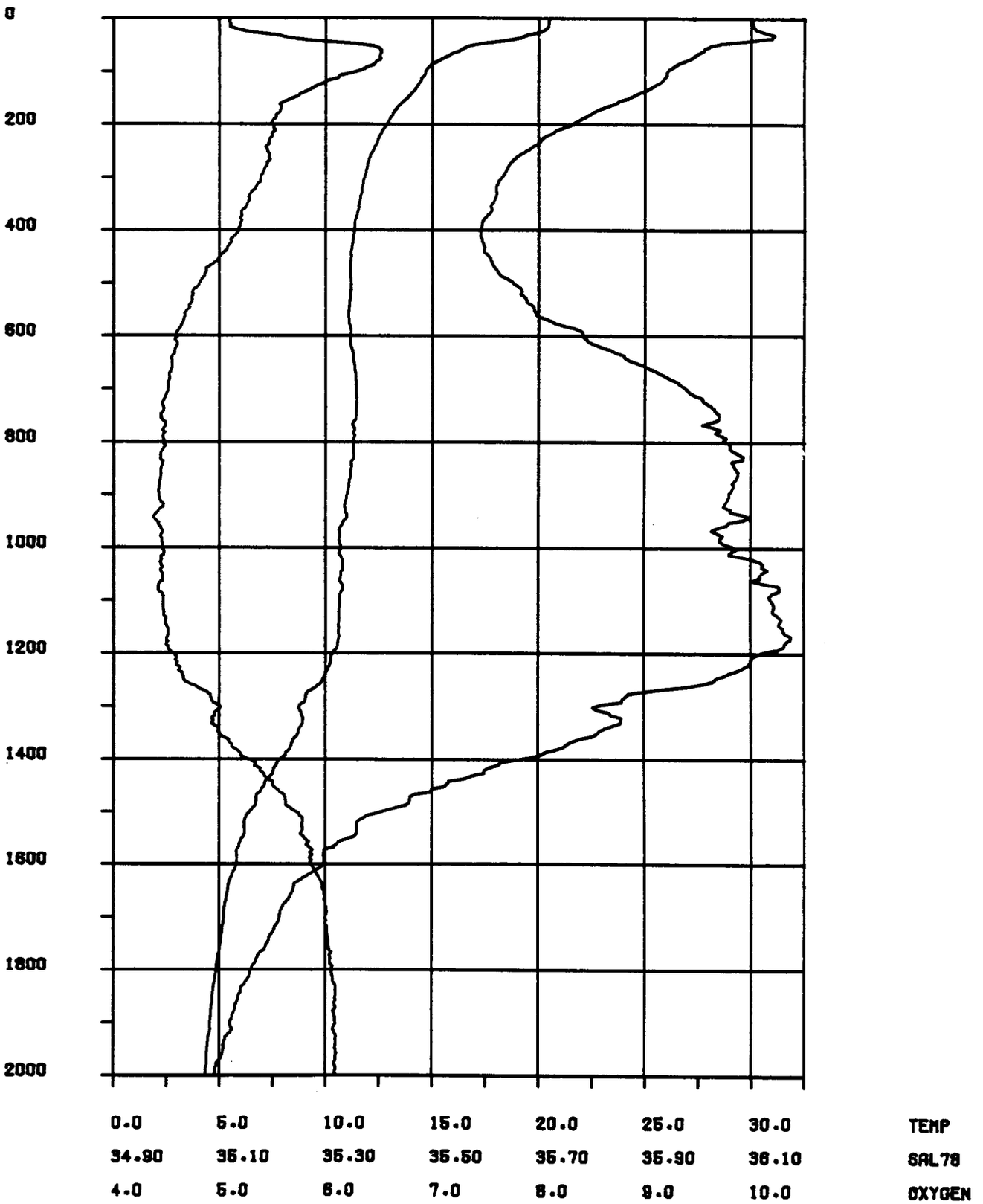

Figure 37

DISCOVERY 130 STN 10599 37 56N 14 45W 07/27/83

DISCOVERY 130 STATION 10555

P-DB	T-DEGC	SAL-PSU	DO-ML/L	POTEMP	SIGMAT	SIG4000	DYNHT-M	SNDV-M/S	DEPTH-M	SVANOM	BVFR-CY/HR
10.	19.562	36.197		19.5607	25.7917	42.3262	0.022	1521.8	10.	0.2198E 03	-9.990
20.	18.591	36.226		18.5872	26.0639	42.6570	0.043	1519.2	20.	0.1943E 03	9.287
30.	17.659	36.237		17.6542	26.3050	42.9564	0.061	1516.7	30.	0.1717E 03	8.739
50.	16.732	36.239		16.7236	26.5303	43.2421	0.093	1514.3	50.	0.1510E 03	5.982
75.	15.914	36.157		15.9020	26.6591	43.4281	0.129	1512.1	74.	0.1395E 03	4.061
100.	15.454	36.117		15.4384	26.7329	43.5350	0.163	1511.0	99.	0.1332E 03	3.085
125.	14.986	36.064		14.9673	26.7967	43.6331	0.196	1509.9	124.	0.1278E 03	2.876
150.	14.587	36.014		14.5641	26.8458	43.7123	0.228	1509.0	149.	0.1238E 03	2.537
200.	13.598	35.859		13.5691	26.9364	43.8789	0.288	1506.5	198.	0.1164E 03	2.451
250.	12.889	35.754		12.8548	27.0000	43.9987	0.344	1504.8	248.	0.1115E 03	2.072
300.	12.397	35.686		12.3570	27.0451	44.0838	0.399	1503.9	298.	0.1083E 03	1.758
400.	11.680	35.606		11.6282	27.1217	44.2200	0.504	1503.1	397.	0.1032E 03	1.627
500.	11.198	35.584		11.1348	27.1946	44.3339	0.605	1503.0	496.	0.9832E 02	1.584
600.	10.803	35.589		10.7277	27.2708	44.4440	0.701	1503.3	595.	0.9308E 02	1.616
700.	10.795	35.718		10.7073	27.3727	44.5463	0.791	1505.1	694.	0.8582E 02	1.812
800.	10.935	35.884		10.8332	27.4769	44.6387	0.873	1507.4	793.	0.7857E 02	1.813
900.	10.775	35.954		10.6612	27.5606	44.7362	0.948	1508.6	891.	0.7281E 02	1.671
1000.	10.705	36.036		10.5780	27.6372	44.8194	1.019	1510.1	990.	0.6783E 02	1.588
1200.	10.280	36.091		10.1292	27.7556	44.9759	1.147	1512.0	1188.	0.6042E 02	1.444
1400.	8.571	35.813		8.4111	27.8244	45.1944	1.261	1508.8	1385.	0.5382E 02	1.369
1600.	6.587	35.467		6.4259	27.8442	45.3970	1.364	1504.1	1582.	0.4920E 02	1.186
1800.	5.136	35.235		4.9724	27.8458	45.5397	1.459	1501.4	1779.	0.4630E 02	0.993

DISCOVERY 130 STATION 10556

P-DB	T-DEGC	SAL-PSU	DO-ML/L	POTEMP	SIGMAT	SIG4000	DYNHT-M	SNDV-M/S	DEPTH-M	SVANOM	BVFR-CY/HR
10.	19.490	36.204		19.4887	25.8155	42.3541	0.022	1521.6	10.	0.2176E 03	-9.990
20.	19.257	36.201		19.2535	25.8743	42.4275	0.043	1521.1	20.	0.2123E 03	4.328
30.	18.558	36.198		18.5532	26.0501	42.6465	0.064	1519.2	30.	0.1959E 03	7.478
50.	16.285	36.113		16.2773	26.5388	43.2830	0.098	1512.8	50.	0.1501E 03	8.801
75.	15.638	36.130		15.6261	26.7015	43.4896	0.133	1511.2	74.	0.1354E 03	4.554
100.	14.844	35.998		14.8286	26.7772	43.6240	0.166	1509.0	99.	0.1289E 03	3.134
125.	14.491	35.942		14.4724	26.8110	43.6849	0.198	1508.2	124.	0.1264E 03	2.113
150.	13.980	35.857		13.9587	26.8549	43.7680	0.229	1506.9	149.	0.1228E 03	2.407
200.	13.221	35.787		13.1930	26.9582	43.9298	0.288	1505.2	198.	0.1142E 03	2.601
250.	12.646	35.726		12.6117	27.0271	44.0444	0.344	1504.0	248.	0.1088E 03	2.142
300.	12.252	35.671		12.2120	27.0618	44.1117	0.398	1503.4	298.	0.1067E 03	1.550
400.	11.546	35.581		11.4942	27.1277	44.2370	0.502	1502.6	397.	0.1025E 03	1.519
500.	11.189	35.551		11.1256	27.1705	44.3114	0.604	1502.9	496.	0.1006E 03	1.236
600.	10.816	35.541		10.7412	27.2310	44.4044	0.702	1503.3	595.	0.9684E 02	1.452
700.	10.779	35.648		10.6910	27.3207	44.4975	0.797	1504.9	694.	0.9066E 02	1.707
800.	11.057	35.872		10.9541	27.4450	44.5977	0.883	1507.8	793.	0.8174E 02	1.963
900.	10.618	35.906		10.5046	27.5516	44.7406	0.960	1508.0	891.	0.7339E 02	1.913
1000.	10.515	35.990		10.3888	27.6356	44.8337	1.030	1509.4	990.	0.6762E 02	1.667
1200.	10.136	36.045		9.9868	27.7450	44.9777	1.159	1511.4	1188.	0.6108E 02	1.388
1400.	8.549	35.797		.3895	27.8149	45.1871	1.276	1508.7	1385.	0.5464E 02	1.357
1600.	6.228	35.406		6.0714	27.8443	45.4303	1.378	1502.6	1582.	0.4798E 02	1.318
1800.	5.205	35.243		5.0403	27.8442	45.5316	1.473	1501.7	1779.	0.4673E 02	0.834
2000.	4.446	35.137		4.2716	27.8470	45.6120	1.565	1501.8	1976.	0.4538E 02	0.801
2200.	3.952	35.073		3.7650	27.8498	45.6674	1.656	1503.0	2172.	0.4460E 02	0.704
2400.	3.508	35.016		3.3083	27.8496	45.7154	1.744	1504.5	2369.	0.4389E 02	0.669
2600.	3.209	34.984		2.9951	27.8532	45.7526	1.831	1506.5	2565.	0.4328E 02	0.632
2800.	2.991	34.965		2.7615	27.8580	45.7831	1.917	1509.0	2761.	0.4279E 02	0.600
3000.	2.842	34.949		2.5943	27.8593	45.8034	2.003	1511.7	2957.	0.4289E 02	0.495
3200.	2.758	34.941		2.4918	27.8601	45.8165	2.089	1514.8	3152.	0.4337E 02	0.413
3400.	2.679	34.932		2.3926	27.8601	45.8287	2.176	1517.8	3348.	0.4386E 02	0.406
3600.	2.623	34.925		2.3162	27.8591	45.8375	2.265	1521.0	3543.	0.4456E 02	0.351
3800.	2.587	34.919		2.2590	27.8574	45.8436	2.355	1524.3	3738.	0.4544E 02	0.299
4000.	2.543	34.914		2.1931	27.8572	45.8522	2.446	1527.5	3933.	0.4605E 02	0.364
4200.	2.487	34.906		2.1155	27.8558	45.8608	2.539	1530.7	4128.	0.4661E 02	0.374
4400.	2.454	34.900		2.0600	27.8540	45.8667	2.633	1534.0	4323.	0.4738E 02	0.318
4500.	2.454	34.899		2.0481	27.8529	45.8679	2.680	1535.8	4420.	0.4794E 02	0.203
4600.	2.458	34.898		2.0399	27.8519	45.8688	2.729	1537.5	4517.	0.4852E 02	0.180
4700.	2.458	34.896		2.0276	27.8507	45.8700	2.778	1539.2	4614.	0.4907E 02	0.205
4800.	2.467	34.896		2.0241	27.8495	45.8703	2.827	1541.0	4711.	0.4972E 02	0.108
4900.	2.477	34.895		2.0213	27.8482	45.8703	2.877	1542.8	4808.	0.5039E 02	0.066
5000.	2.490	34.895		2.0207	27.8473	45.8706	2.928	1544.6	4905.	0.5105E 02	0.096
5100.	2.503	34.895		2.0210	27.8460	45.8704	2.979	1546.4	5002.	0.5175E 02	-0.080

DISCOVERY 130 STATION 10560

P-DB	T-DEGC	SAL-PSU	DO-ML/L	POTEMP	SIGMAT	SIG4000	DYNHT-M	SNDV-M/S	DEPTH-M	SVANOM	BVFR-CY/HR
10.	19.782	36.277		19.7804	25.7947	42.3143	0.022	1522.5	10.	0.2195E 03	-9.990
20.	19.413	36.258		19.4096	25.8773	42.4198	0.044	1521.6	20.	0.2121E 03	5.115
30.	18.894	36.247		18.8882	26.0026	42.5773	0.065	1520.3	30.	0.2005E 03	6.316
50.	17.787	36.212		17.7789	26.2545	42.8994	0.102	1517.4	50.	0.1772E 03	6.323
75.	16.457	36.188		16.4451	26.5564	43.2886	0.142	1513.8	74.	0.1493E 03	6.198
100.	16.016	36.178		15.9996	26.6513	43.4141	0.178	1512.8	99.	0.1410E 03	3.491
125.	15.663	36.139		15.6437	26.7025	43.4911	0.213	1512.1	124.	0.1369E 03	2.584
150.	15.187	36.064		15.1641	26.7520	43.5758	0.247	1511.0	149.	0.1329E 03	2.547
200.	13.987	35.893		13.9576	26.8811	43.7950	0.311	1507.8	198.	0.1218E 03	2.913
250.	13.065	35.765		13.0303	26.9730	43.9585	0.369	1505.4	248.	0.1141E 03	2.475
300.	12.535	35.703		12.4941	27.0313	44.0593	0.425	1504.4	298.	0.1097E 03	1.985
400.	11.826	35.619		11.7739	27.1036	44.1905	0.532	1503.6	397.	0.1050E 03	1.585
500.	11.286	35.562		11.2225	27.1610	44.2942	0.636	1503.3	496.	0.1016E 03	1.428
600.	10.969	35.609		10.8937	27.2563	44.4160	0.734	1503.9	595.	0.9463E 02	1.785
700.	11.036	35.739		10.9465	27.3453	44.4999	0.826	1505.9	694.	0.8869E 02	1.688
800.	11.188	35.919		11.0847	27.4570	44.5985	0.910	1508.3	793.	0.8080E 02	1.876
900.	11.080	36.013		10.9641	27.5509	44.7016	0.988	1509.7	891.	0.7422E 02	1.757
1000.	10.771	36.027		10.6430	27.6178	44.7953	1.059	1510.3	990.	0.6976E 02	1.538
1200.	9.845	35.955		9.6980	27.7255	44.9834	1.190	1510.3	1188.	0.6222E 02	1.446
1400.	8.289	35.717		8.1325	27.7931	45.1889	1.309	1507.6	1385.	0.5592E 02	1.341
1600.	6.304	35.395		6.1462	27.8254	45.4051	1.414	1502.9	1582.	0.4997E 02	1.269
1800.	5.139	35.215		4.9751	27.8295	45.5238	1.511	1501.4	1779.	0.4781E 02	0.922
2000.	4.344	35.103		4.1709	27.8312	45.6069	1.605	1501.3	1976.	0.4635E 02	0.808
2200.	3.772	35.031		3.5882	27.8346	45.6706	1.696	1502.2	2172.	0.4508E 02	0.754
2400.	3.388	34.992		3.1909	27.8418	45.7198	1.785	1503.9	2369.	0.4394E 02	0.713
2600.	3.166	34.974		2.9526	27.8486	45.7526	1.873	1506.3	2565.	0.4343E 02	0.613
2800.	2.968	34.957		2.7387	27.8542	45.7818	1.959	1508.9	2761.	0.4298E 02	0.592
3000.	2.846	34.949		2.5985	27.8584	45.8021	2.045	1511.7	2957.	0.4300E 02	0.509
3200.	2.718	34.938		2.4520	27.8612	45.8217	2.131	1514.6	3152.	0.4297E 02	0.507
3400.	2.651	34.930		2.3657	27.8608	45.8321	2.217	1517.7	3348.	0.4359E 02	0.373
3600.	2.582	34.921		2.2760	27.8601	45.8426	2.305	1520.8	3543.	0.4413E 02	0.384
3800.	2.524	34.913		2.1981	27.8588	45.8512	2.394	1524.0	3738.	0.4477E 02	0.356
4000.	2.467	34.906		2.1191	27.8577	45.8602	2.484	1527.2	3933.	0.4532E 02	0.373
4200.	2.426	34.900		2.0568	27.8563	45.8672	2.575	1530.5	4128.	0.4600E 02	0.337
4400.	2.420	34.897		2.0272	27.8546	45.8706	2.668	1533.9	4323.	0.4700E 02	0.238
4500.	2.423	34.896		2.0177	27.8535	45.8716	2.716	1535.6	4420.	0.4757E 02	0.183
4600.	2.429	34.895		2.0118	27.8525	45.8723	2.763	1537.4	4517.	0.4816E 02	0.160

DISCOVERY 130 STATION 10561

P-DB	T-DEGC	SAL-PSU	DO-ML/L	POTEMP	SIGMAT	SIG4000	DYNHT-M	SNDV-M/S	DEPTH-M	SVANOM	BVFR-CY/HR
10.	20.146	36.349		20.1441	25.7539	42.2504	0.022	1523.5	10.	0.2234E 03	-9.990
20.	19.226	36.323		19.2226	25.9748	42.5271	0.044	1521.1	20.	0.2027E 03	8.382
30.	18.038	36.315		18.0328	26.2710	42.8967	0.063	1517.9	30.	0.1750E 03	9.674
50.	17.230	36.333		17.2220	26.4835	43.1608	0.095	1515.9	50.	0.1554E 03	5.810
75.	16.524	36.299		16.5121	26.6258	43.3509	0.133	1514.1	74.	0.1427E 03	4.265
100.	16.072	36.235		16.0560	26.6823	43.4400	0.168	1513.1	99.	0.1381E 03	2.708
125.	15.791	36.183		15.7709	26.7070	43.4859	0.202	1512.6	124.	0.1365E 03	1.819
150.	15.307	36.083		15.2839	26.7397	43.5549	0.236	1511.4	149.	0.1341E 03	2.093
200.	13.955	35.877		13.9256	26.8755	43.7921	0.301	1507.7	198.	0.1223E 03	2.989
250.	13.196	35.784		13.1606	26.9610	43.9365	0.360	1505.9	248.	0.1153E 03	2.384
300.	12.694	35.717		12.6532	27.0105	44.0264	0.416	1505.0	298.	0.1117E 03	1.836
400.	11.852	35.613		11.7998	27.0942	44.1794	0.525	1503.7	397.	0.1059E 03	1.703
500.	11.232	35.554		11.1683	27.1649	44.3024	0.628	1503.1	496.	0.1011E 03	1.574
600.	10.983	35.583		10.9071	27.2335	44.3929	0.727	1503.9	595.	0.9678E 02	1.525
700.	11.048	35.734		10.9584	27.3392	44.4929	0.820	1506.0	694.	0.8928E 02	1.837
800.	11.017	35.889		10.9148	27.4653	44.6207	0.905	1507.7	793.	0.7977E 02	2.014
900.	10.616	35.907		10.5028	27.5523	44.7414	0.982	1508.0	891.	0.7332E 02	1.739
1000.	10.389	35.941		10.2642	27.6196	44.8288	1.053	1508.9	990.	0.6887E 02	1.526
1200.	9.486	35.894		.3430	27.7385	45.0263	1.181	1508.9	1188.	0.6020E 02	1.502
1400.	8.060	35.686		7.9059	27.8042	45.2198	1.296	1506.7	1385.	0.5425E 02	1.310
1600.	6.396	35.416		6.2367	27.8300	45.4010	1.399	1503.3	1582.	0.4986E 02	1.158
1800.	5.071	35.203		4.9080	27.8280	45.5289	1.496	1501.1	1779.	0.4767E 02	0.924
2000.	4.295	35.092		.1225	27.8280	45.6086	1.590	1501.1	1976.	0.4643E 02	0.783
2200.	3.841	35.042		3.6562	27.8360	45.6651	1.682	1502.5	2172.	0.4530E 02	0.737
2400.	3.484	35.006		3.2853	27.8437	45.7120	1.771	1504.3	2369.	0.4429E 02	0.701
2600.	3.188	34.977		2.9741	27.8491	45.7509	1.859	1506.4	2565.	0.4351E 02	0.654
2800.	2.980	34.960		2.7498	27.8550	45.7814	1.946	1508.9	2761.	0.4298E 02	0.605
3000.	2.844	34.949		2.5967	27.8585	45.8024	2.032	1511.7	2957.	0.4297E 02	0.514
3200.	2.746	34.939		2.4800	27.8600	45.8177	2.118	1514.7	3152.	0.4329E 02	0.447
3400.	2.670	34.931		2.3837	27.8602	45.8297	2.205	1517.8	3348.	0.4378E 02	0.403
3600.	2.605	34.924		2.2985	27.8601	45.8403	2.293	1520.9	3543.	0.4432E 02	0.387
3800.	2.548	34.916		2.2206	27.8590	45.8491	2.382	1524.1	3738.	0.4495E 02	0.361
4000.	2.501	34.909		2.1528	27.8573	45.8564	2.473	1527.3	3933.	0.4566E 02	0.335
4200.	2.468	34.904		2.0972	27.8560	45.8629	2.565	1530.6	4128.	0.4641E 02	0.323
4400.	2.442	34.899		2.0485	27.8545	45.8684	2.658	1534.0	4323.	0.4722E 02	0.305
4500.	2.441	34.898		2.0354	27.8535	45.8697	2.706	1535.7	4420.	0.4775E 02	0.217
4600.	2.443	34.897		2.0248	27.8524	45.8708	2.754	1537.4	4517.	0.4832E 02	0.194
4700.	2.449	34.896		2.0184	27.8512	45.8713	2.803	1539.2	4614.	0.4893E 02	0.144
4800.	2.457	34.896		2.0140	27.8502	45.8719	2.852	1541.0	4712.	0.4955E 02	0.146
4900.	2.467	34.895		2.0109	27.8490	45.8721	2.902	1542.8	4809.	0.5020E 02	0.095
5000.	2.478	34.895		2.0096	27.8480	45.8724	2.952	1544.5	4906.	0.5086E 02	0.087

DISCOVERY 130 STATION 10562

P-DB	T-DEGC	SAL-PSU	DO-ML/L	POTEMP	SIGMAT	SIG4000	DYNHT-M	SNDV-M/S	DEPTH-M	SVANOM	BVFR-CY/HR
10.	19.959	36.355		19.9570	25.8076	42.3149	0.022	1523.0	10.	0.2183E 03	-9.990
20.	19.419	36.315		19.4149	25.9187	42.4596	0.044	1521.6	20.	0.2081E 03	5.951
30.	18.507	36.287		18.5022	26.1321	42.7293	0.063	1519.2	30.	0.1882E 03	8.221
50.	17.027	36.201		17.0185	26.4308	43.1245	0.098	1515.1	50.	0.1604E 03	6.890
75.	15.874	36.123		15.8624	26.6420	43.4144	0.136	1511.9	74.	0.1411E 03	5.187
100.	15.396	36.088		15.3803	26.7232	43.5300	0.170	1510.8	99.	0.1341E 03	3.234
125.	14.741	35.982		14.7225	26.7868	43.6424	0.203	1509.1	124.	0.1287E 03	2.882
150.	13.983	35.879		13.9611	26.8708	43.7833	0.234	1506.9	149.	0.1213E 03	3.307
200.	13.172	35.783		13.1437	26.9655	43.9408	0.293	1505.0	198.	0.1135E 03	2.496
250.	12.746	35.740		12.7114	27.0186	44.0282	0.348	1504.3	248.	0.1097E 03	1.884
300.	12.349	35.685		12.3084	27.0543	44.0966	0.403	1503.8	298.	0.1074E 03	1.570
400.	11.718	35.601		11.6660	27.1109	44.2065	0.508	1503.2	397.	0.1042E 03	1.414
500.	11.241	35.551		11.1776	27.1608	44.2977	0.611	1503.1	496.	0.1015E 03	1.336
600.	10.784	35.549		10.7096	27.2428	44.4185	0.710	1503.2	595.	0.9569E 02	1.678
700.	10.733	35.679		10.6452	27.3533	44.5328	0.801	1504.8	694.	0.8755E 02	1.890
800.	10.788	35.823		10.6866	27.4557	44.6305	0.885	1506.8	793.	0.8033E 02	1.808
900.	10.607	35.901		10.4940	27.5493	44.7393	0.963	1507.9	891.	0.7358E 02	1.765
1000.	10.196	35.919		10.0724	27.6365	44.8613	1.032	1508.2	990.	0.6694E 02	1.749
1200.	9.804	35.977		9.6574	27.7499	45.0104	1.159	1510.1	1188.	0.5987E 02	1.411
1400.	7.673	35.621		7.5222	27.8114	45.2613	1.272	1505.1	1385.	0.5249E 02	1.399
1600.	5.981	35.349		5.8275	27.8309	45.4405	1.372	1501.6	1582.	0.4836E 02	1.126
1800.	4.792	35.161		4.6328	27.8273	45.5551	1.467	1499.9	1779.	0.4662E 02	0.867
2000.	4.164	35.077		3.9942	27.8303	45.6236	1.559	1500.5	1976.	0.4562E 02	0.745
2200.	3.783	35.035		3.5989	27.8367	45.6715	1.650	1502.3	2172.	0.4494E 02	0.678
2400.	3.441	35.006		3.2426	27.8478	45.7203	1.738	1504.2	2369.	0.4368E 02	0.729
2600.	3.147	34.975		2.9339	27.8518	45.7576	1.825	1506.3	2565.	0.4303E 02	0.634
2800.	2.947	34.959		2.7176	27.8574	45.7870	1.910	1508.8	2761.	0.4256E 02	0.594
3000.	2.798	34.946		2.5512	27.8603	45.8088	1.995	1511.5	2957.	0.4249E 02	0.520
3200.	2.722	34.937		2.4564	27.8605	45.8206	2.081	1514.6	3152.	0.4306E 02	0.391
3400.	2.652	34.930		2.3669	27.8604	45.8316	2.168	1517.7	3348.	0.4363E 02	0.384
3600.	2.588	34.922		2.2823	27.8597	45.8415	2.255	1520.9	3543.	0.4422E 02	0.374
3800.	2.542	34.915		2.2154	27.8584	45.8491	2.344	1524.1	3738.	0.4495E 02	0.334
4000.	2.505	34.909		2.1565	27.8571	45.8558	2.435	1527.4	3933.	0.4572E 02	0.322
4200.	2.479	34.905		2.1076	27.8560	45.8617	2.527	1530.7	4128.	0.4652E 02	0.310
4400.	2.459	34.901		2.0651	27.8543	45.8665	2.621	1534.1	4323.	0.4741E 02	0.284
4500.	2.456	34.899		2.0504	27.8532	45.8679	2.669	1535.8	4420.	0.4794E 02	0.225
4600.	2.456	34.898		2.0378	27.8522	45.8693	2.717	1537.5	4517.	0.4847E 02	0.218
4700.	2.460	34.897		2.0290	27.8510	45.8700	2.766	1539.3	4614.	0.4907E 02	0.170
4800.	2.464	34.896		2.0213	27.8499	45.8709	2.815	1541.0	4712.	0.4966E 02	0.176
4900.	2.472	34.895		2.0165	27.8485	45.8711	2.865	1542.8	4809.	0.5031E 02	0.103
5000.	2.483	34.893		2.0144	27.8462	45.8701	2.916	1544.6	4906.	0.5107E 02	-0.171
5100.	2.494	34.893		2.0117	27.8449	45.8703	2.967	1546.3	5003.	0.5174E 02	0.086
5200.	2.506	34.893		2.0109	27.8440	45.8706	3.020	1548.1	5100.	0.5240E 02	0.103
5300.	2.520	34.892		2.0112	27.8420	45.8698	3.072	1549.9	5197.	0.5317E 02	-0.159
5400.	2.535	34.891		2.0120	27.8397	45.8686	3.126	1551.7	5293.	0.5398E 02	-0.195

DISCOVERY 130 STATION 10563

P-DB	T-DEGC	SAL-PSU	DO-ML/L	POTEMP	SIGMAT	SIG4000	DYNHT-M	SNDV-M/S	DEPTH-M	SVANOM	BVFR-CY/HR
10.	20.017	36.387		20.0152	25.8168	42.3199	0.022	1523.2	10.	0.2175E 03	-9.990
20.	19.560	36.352		19.5567	25.9107	42.4422	0.043	1522.1	20.	0.2089E 03	5.466
30.	18.009	36.236		18.0039	26.2172	42.8467	0.063	1517.7	30.	0.1800E 03	9.867
50.	16.469	36.193		.4611	26.5573	43.2874	0.095	1513.4	50.	0.1484E 03	7.340
75.	15.886	36.147		15.8742	26.6575	43.4286	0.131	1512.0	74.	0.1396E 03	3.584
100.	15.475	36.109		15.4595	26.7219	43.5228	0.165	1511.1	99.	0.1342E 03	2.884
125.	15.039	36.046		15.0199	26.7706	43.6040	0.198	1510.1	124.	0.1303E 03	2.525
150.	14.600	35.973		14.5779	26.8114	43.6780	0.230	1509.0	149.	0.1271E 03	2.320
200.	13.593	35.841		13.5649	26.9233	43.8666	0.291	1506.4	198.	0.1177E 03	2.713
250.	13.002	35.764		12.9669	26.9850	43.9751	0.349	1505.2	248.	0.1130E 03	2.033
300.	12.460	35.696		12.4196	27.0406	44.0744	0.404	1504.2	298.	0.1088E 03	1.942
400.	11.780	35.611		11.7279	27.1065	44.1972	0.511	1503.4	397.	0.1047E 03	1.519
500.	11.224	35.555		11.1600	27.1674	44.3056	0.613	1503.1	496.	0.1009E 03	1.467
600.	10.875	35.558		10.7994	27.2339	44.4023	0.713	1503.5	595.	0.9663E 02	1.513
700.	10.791	35.678		10.7028	27.3425	44.5175	0.806	1505.0	694.	0.8864E 02	1.878
800.	10.859	35.855		10.7578	27.4676	44.6359	0.889	1507.1	793.	0.7933E 02	1.994
900.	10.689	35.928		10.5749	27.5558	44.7388	0.965	1508.3	891.	0.7311E 02	1.715
1000.	10.198	35.916		10.0747	27.6339	44.8585	1.035	1508.2	990.	0.6719E 02	1.679
1200.	9.480	35.908		9.3366	27.7507	45.0387	1.161	1508.9	1188.	0.5905E 02	1.470
1400.	7.905	35.669		7.7520	27.8146	45.2436	1.273	1506.1	1385.	0.5285E 02	1.324
1600.	6.045	35.362		5.8902	27.8335	45.4371	1.373	1501.8	1582.	0.4833E 02	1.160
1800.	5.109	35.221		4.9454	27.8381	45.5349	1.468	1501.2	1779.	0.4690E 02	0.846
2000.	4.418	35.125		4.2443	27.8406	45.6086	1.561	1501.6	1976.	0.4583E 02	0.768
2200.	3.865	35.053		3.6792	27.8430	45.6695	1.651	1502.6	2172.	0.4479E 02	0.733
2400.	3.476	35.008		3.2774	27.8459	45.7150	1.740	1504.3	2369.	0.4405E 02	0.668
2600.	3.202	34.981		2.9882	27.8511	45.7514	1.827	1506.5	2565.	0.4342E 02	0.633
2800.	3.010	34.965		2.7792	27.8561	45.7795	1.914	1509.1	2761.	0.4308E 02	0.579
3000.	2.869	34.951		.6206	27.8580	45.7994	2.000	1511.8	2957.	0.4319E 02	0.495
3200.	2.762	34.941		2.4956	27.8599	45.8160	2.087	1514.8	3153.	0.4341E 02	0.465
3400.	2.695	34.934		2.4089	27.8598	45.8267	2.174	1517.9	3348.	0.4402E 02	0.381
3600.	2.633	34.926		2.3264	27.8594	45.8367	2.263	1521.1	3543.	0.4462E 02	0.375
3800.	2.586	34.919		2.2581	27.8577	45.8440	2.353	1524.3	3739.	0.4540E 02	0.327
4000.	2.541	34.913		2.1918	27.8569	45.8520	2.444	1527.5	3934.	0.4606E 02	0.353
4200.	2.506	34.907		2.1340	27.8556	45.8586	2.537	1530.8	4128.	0.4682E 02	0.326
4400.	2.482	34.903		2.0875	27.8539	45.8639	2.632	1534.2	4323.	0.4767E 02	0.297
4500.	2.471	34.901		2.0645	27.8533	45.8666	2.680	1535.8	4420.	0.4807E 02	0.308
4600.	2.470	34.899		2.0509	27.8523	45.8680	2.728	1537.6	4517.	0.4860E 02	0.226
4700.	2.471	34.898		2.0397	27.8513	45.8693	2.777	1539.3	4615.	0.4915E 02	0.213
4800.	2.476	34.897		2.0324	27.8499	45.8698	2.826	1541.1	4712.	0.4978E 02	0.142
4900.	2.482	34.896		2.0262	27.8487	45.8703	2.876	1542.8	4809.	0.5040E 02	0.144
5000.	2.491	34.896		2.0221	27.8474	45.8706	2.927	1544.6	4906.	0.5105E 02	0.107
5100.	2.501	34.896		2.0188	27.8465	45.8711	2.978	1546.4	5003.	0.5169E 02	0.137
5200.	2.514	34.895		2.0187	27.8447	45.8705	3.030	1548.2	5100.	0.5244E 02	-0.138
5300.	2.527	34.895		2.0181	27.8437	45.8707	3.083	1550.0	5197.	0.5311E 02	0.089
5400.	2.540	34.895		2.0174	27.8428	45.8711	3.137	1551.8	5294.	0.5377E 02	0.118
5500.	2.554	34.895		2.0173	27.8411	45.8706	3.191	1553.6	5390.	0.5452E 02	-0.123
5600.	2.567	34.895		2.0164	27.8405	45.8713	3.246	1555.4	5487.	0.5516E 02	0.147

DISCOVERY 130 STATION 10564

P-DB	T-DEGC	SAL-PSU	DO-ML/L	POTEMP	SIGMAT	SIG4000	DYNHT-M	SNDV-M/S	DEPTH-M	SVANOM	BVFR-CY/HR
10.	20.536	36.482		20.5343	25.7499	42.2207	0.022	1524.8	10.	0.2238E 03	-9.990
.	20.326	36.468		20.3221	25.7966	42.2804	0.045	1524.3	20.	0.2197E 03	3.863
30.	19.854	36.452		19.8480	25.9096	42.4220	0.066	1523.2	30.	0.2094E 03	5.994
50.	17.911	36.355		17.9023	26.3332	42.9670	0.104	1517.9	50.	0.1697E 03	8.200
75.	16.684	36.260		16.6715	26.5584	43.2740	0.144	1514.6	74.	0.1491E 03	5.357
100.	16.395	36.264		16.3790	26.6292	43.3649	0.180	1514.1	99.	0.1432E 03	3.020
125.	15.783	36.147		15.7633	26.6810	43.4614	0.215	1512.5	124.	0.1389E 03	2.609
150.	15.419	36.099		15.3958	26.7268	43.5340	0.249	1511.7	149.	0.1353E 03	2.450
200.	14.382	35.933		14.3524	26.8276	43.7126	0.315	1509.1	198.	0.1270E 03	2.582
250.	13.680	35.836		13.6438	26.9016	43.8409	0.377	1507.5	248.	0.1211E 03	2.224
300.	13.125	35.764		13.0829	26.9605	43.9436	0.436	1506.5	298.	0.1167E 03	1.996
400.	12.090	35.626		12.0363	27.0592	44.1261	0.548	1504.5	397.	0.1094E 03	1.847
500.	11.450	35.555		11.3858	27.1248	44.2456	0.655	1503.9	496.	0.1051E 03	1.525
600.	10.872	35.517		. .7970	27.2021	44.3718	0.758	1503.4	595.	0.9961E 02	1.645
700.	10.520	35.544		10.4331	27.2864	44.4861	0.854	1503.9	694.	0.9354E 02	1.694
800.	10.355	35.664		10.2563	27.4092	44.6219	0.943	1505.1	793.	0.8403E 02	2.002
900.	10.024	35.726		9.9151	27.5152	44.7555	1.023	1505.7	891.	0.7577E 02	1.893
1000.	9.747	35.768		9.6269	27.5961	44.8604	1.096	1506.4	990.	0.6984E 02	1.667
1200.	8.982	35.757		8.8430	27.7148	45.0469	1.225	1506.9	1188.	0.6121E 02	1.486
1400.	7.071	35.473		6.9273	27.7818	45.2873	1.338	1502.7	1385.	0.5347E 02	1.401
1600.	5.253	35.197		5.1084	27.8019	45.4819	1.440	1498.5	1582.	0.4847E 02	1.168
1800.	4.586	35.108		4.4299	27.8088	45.5573	1.536	1499.0	1779.	0.4748E 02	0.766
2000.	4.092	35.046		3.9231	27.8129	45.6140	1.630	1500.2	1976.	0.4688E 02	0.690
2200.	3.612	34.994		3.4306	27.8213	45.6737	1.722	1501.5	2172.	0.4548E 02	0.756
2400.	3.378	34.981		3.1809	27.8342	45.7135	1.812	1503.9	2369.	0.4457E 02	0.679
2600.	3.150	34.967		2.9374	27.8448	45.7504	1.901	1506.3	2565.	0.4368E 02	0.663
2800.	2.969	34.955		2.7395	27.8525	45.7801	1.987	1508.9	2761.	0.4314E 02	0.605
3000.	2.837	34.948		2.5897	27.8583	45.8029	2.073	1511.7	2957.	0.4294E 02	0.543
3200.	2.736	34.939		2.4696	27.8604	45.8191	2.160	1514.7	3152.	0.4318E 02	0.461
3400.	2.661	34.931		2.3757	27.8606	45.8309	2.247	1517.8	3348.	0.4368E 02	0.400
3600.	2.615	34.924		2.3084	27.8595	45.8387	2.335	1521.0	3543.	0.4446E 02	0.330
3800.	2.582	34.919		2.2542	27.8578	45.8445	2.425	1524.3	3738.	0.4536E 02	0.293
4000.	2.562	34.915		2.2123	27.8566	45.8496	2.516	1527.6	3933.	0.4629E 02	0.280
4200.	2.553	34.912		2.1803	27.8547	45.8531	2.610	1531.0	4128.	0.4734E 02	0.238
4400.	2.528	34.907		2.1319	27.8530	45.8584	2.705	1534.4	4323.	0.4820E 02	0.300
4500.	2.498	34.903		2.0910	27.8523	45.8629	2.754	1536.0	4420.	0.4844E 02	0.397
4600.	2.491	34.901		2.0714	27.8516	45.8653	2.802	1537.7	4517.	0.4888E 02	0.287
4700.	2.491	34.900		2.0594	27.8506	45.8666	2.852	1539.4	4614.	0.4943E 02	0.219
4800.	2.497	34.899		2.0527	27.8494	45.8672	2.901	1541.1	4711.	0.5005E 02	0.153
4900.	2.504	34.898		2.0467	27.8485	45.8680	2.952	1542.9	4808.	0.5065E 02	0.173
5000.	2.515	34.898		2.0448	27.8472	45.8681	3.003	1544.7	4906.	0.5133E 02	0.055
5100.	2.526	34.898		2.0431	27.8460	45.8681	3.054	1546.5	5003.	0.5202E 02	0.057
5200.	2.538	34.897		2.0415	27.8447	45.8682	3.107	1548.3	5099.	0.5271E 02	0.053
5300.	2.550	34.897		2.0405	27.8434	45.8682	3.160	1550.1	5196.	0.5340E 02	0.039

DISCOVERY 130 STATION 10565

P-DB	T-DEGC	SAL-PSU	DO-ML/L	POTEMP	SIGMAT	SIG4000	DYNHT-M	SNDV-M/S	DEPTH-M	SVANOM	BVFR-CY/HR
10.	20.792	36.450		20.7898	25.6568	42.1137	0.023	1525.4	10.	0.2327E 03	-9.990
20.	20.720	36.437		20.7166	25.6663	42.1281	0.047	1525.4	20.	0.2321E 03	1.780
30.	19.051	36.306		19.0457	26.0066	42.5706	0.068	1520.8	30.	0.2000E 03	10.402
50.	17.212	36.278		17.2039	26.4452	43.1250	0.103	1515.7	50.	0.1591E 03	8.331
75.	16.557	36.256		16.5446	26.5851	43.3092	0.141	1514.2	74.	0.1466E 03	4.229
100.	16.122	36.208		16.1059	26.6503	43.4053	0.177	1513.2	99.	0.1411E 03	2.902
125.	15.749	36.150		15.7289	26.6912	43.4738	0.212	1512.4	124.	0.1380E 03	2.319
150.	15.220	36.059		15.1972	26.7403	43.5621	0.245	1511.1	149.	0.1340E 03	2.543
200.	14.028	35.885		13.9991	26.8662	43.7773	0.310	1507.9	198.	0.1232E 03	2.876
250.	13.271	35.786		13.2359	26.9475	43.9175	0.369	1506.1	248.	0.1166E 03	2.329
300.	12.740	35.717		12.6986	27.0019	44.0144	0.427	1505.1	298.	0.1126E 03	1.921
400.	11.906	35.619		11.8534	27.0884	44.1694	0.536	1503.8	397.	0.1065E 03	1.729
500.	11.253	35.546		11.1894	27.1548	44.2909	0.640	1503.2	496.	0.1021E 03	1.533
600.	10.842	35.541		10.7666	27.2264	44.3978	0.740	1503.4	595.	0.9729E 02	1.572
700.	10.547	35.603		10.4601	27.3277	44.5238	0.834	1504.1	694.	0.8970E 02	1.839
800.	10.516	35.736		10.4168	27.4368	44.6350	0.919	1505.8	793.	0.8169E 02	1.875
900.	10.174	35.801		10.0633	27.5481	44.7746	0.997	1506.3	892.	0.7295E 02	1.938
1000.	10.009	35.847		9.8871	27.6122	44.8536	1.068	1507.4	990.	0.6885E 02	1.478
1200.	9.451	35.903		9.3079	27.7514	45.0418	1.194	1508.8	1188.	0.5892E 02	1.566
1400.	7.150	35.518		7.0046	27.8057	45.3032	1.305	1503.0	1385.	0.5149E 02	1.390
1600.	5.483	35.261		5.3352	27.8242	45.4813	1.404	1499.5	1582.	0.4723E 02	1.118
1800.	4.775	35.163		4.6154	27.8307	45.5601	1.497	1499.8	1779.	0.4624E 02	0.779
2000.	4.102	35.069		3.9330	27.8308	45.6302	1.589	1500.3	1976.	0.4529E 02	0.736
2200.	3.727	35.031		3.5435	27.8391	45.6794	1.678	1502.0	2173.	0.4444E 02	0.696
2400.	3.391	35.000		3.1940	27.8481	45.7256	1.766	1503.9	2369.	0.4338E 02	0.702
2600.	3.116	34.973		2.9037	27.8531	45.7619	1.852	1506.1	2565.	0.4273E 02	0.632
2800.	2.934	34.957		2.7053	27.8566	45.7875	1.937	1508.7	2761.	0.4254E 02	0.550
3000.	2.818	34.946		2.5707	27.8590	45.8055	2.022	1511.6	2957.	0.4274E 02	0.474
3200.	2.735	34.939		2.4688	27.8603	45.8192	2.108	1514.7	3153.	0.4317E 02	0.423
3400.	2.659	34.931		2.3736	27.8607	45.8311	2.195	1517.7	3348.	0.4366E 02	0.403
3600.	2.600	34.922		2.2937	27.8591	45.8397	2.283	1520.9	3544.	0.4437E 02	0.346
3800.	2.558	34.916		2.2311	27.8582	45.8473	2.372	1524.2	3739.	0.4511E 02	0.334
4000.	2.517	34.910		2.1680	27.8564	45.8540	2.463	1527.4	3934.	0.4589E 02	0.321
4200.	2.487	34.905		2.1161	27.8555	45.8604	2.556	1530.7	4129.	0.4665E 02	0.322
4400.	2.465	34.901		2.0712	27.8537	45.8653	2.650	1534.1	4323.	0.4752E 02	0.288
4500.	2.457	34.899		.0513	27.8527	45.8674	2.698	1535.8	4421.	0.4799E 02	0.268
4600.	2.457	34.898		2.0389	27.8520	45.8690	2.746	1537.5	4518.	0.4850E 02	0.238
4700.	2.458	34.897		2.0277	27.8509	45.8701	2.795	1539.2	4615.	0.4906E 02	0.204
4800.	2.463	34.896		2.0202	27.8497	45.8708	2.844	1541.0	4712.	0.4966E 02	0.163
4900.	2.473	34.895		.0167	27.8487	45.8712	2.894	1542.8	4809.	0.5030E 02	0.119
5000.	2.480	34.895		2.0112	27.8476	45.8719	2.945	1544.5	4906.	0.5091E 02	0.158
5100.	2.490	34.894		2.0078	27.8465	45.8722	2.996	1546.3	5003.	0.5156E 02	0.115
5200.	2.499	34.894		2.0043	27.8454	45.8726	3.048	1548.1	5100.	0.5220E 02	0.124
5300.	2.507	34.893		1.9987	27.8442	45.8732	3.100	1549.9	5197.	0.5283E 02	0.154

DISCOVERY 130 STATION 10566

P-DB	T-DEGC	SAL-PSU	DO-ML/L	POTEMP	SIGMAT	SIG4000	DYNHT-M	SNDV-M/S	DEPTH-M	SVANOM	BVFR-CY/HR
10.	21.474	36.577		21.4720	25.5656	41.9811	0.024	1527.4	10.	0.2413E 03	-9.990
20.	21.427	36.572		21.4227	25.5752	41.9940	0.048	1527.4	20.	0.2408E 03	1.787
30.	20.410	36.463		20.4045	25.7686	42.2485	0.072	1524.7	30.	0.2227E 03	7.856
50.	18.741	36.380		18.7324	26.1441	42.7259	0.112	1520.3	50.	0.1877E 03	7.709
75.	18.234	36.470		18.2205	26.3415	42.9537	0.157	1519.4	74.	0.1698E 03	5.015
100.	17.696	36.451		17.6785	26.4605	43.1080	0.197	1518.2	99.	0.1593E 03	3.905
125.	17.867	36.576		17.8454	26.5140	43.1491	0.236	1519.3	124.	0.1552E 03	2.617
150.	17.427	36.480		17.4020	26.5484	43.2148	0.275	1518.3	149.	0.1527E 03	2.146
200.	16.188	36.195		16.1559	26.6243	43.3802	0.350	1515.1	198.	0.1468E 03	2.266
250.	15.281	36.051		15.2426	26.7211	43.5434	0.421	1512.9	248.	0.1389E 03	2.536
300.	14.356	35.919		14.3113	26.8226	43.7140	0.489	1510.7	298.	0.1303E 03	2.605
400.	12.998	35.741		12.9426	26.9683	43.9651	0.613	1507.7	397.	0.1185E 03	2.227
500.	12.017	35.622		11.9509	27.0697	44.1458	0.728	1505.9	496.	0.1108E 03	1.882
600.	11.201	35.542		11.1246	27.1613	44.3050	0.835	1504.6	595.	0.1038E 03	1.800
700.	10.450	35.505		10.3637	27.2687	44.4750	0.935	1503.6	694.	0.9510E 02	1.939
800.	10.122	35.587		10.0246	27.3902	44.6233	1.025	1504.2	793.	0.8545E 02	2.012
900.	9.661	35.628		9.5543	27.5012	44.7730	1.106	1504.2	892.	0.7645E 02	1.951
1000.	9.437	35.708		9.3188	27.6009	44.8916	1.178	1505.2	990.	0.6879E 02	1.827
1200.	8.213	35.616		8.0811	27.7258	45.1250	1.304	1503.9	1188.	0.5836E 02	1.573
1400.	6.597	35.391		6.4576	27.7827	45.3317	1.414	1500.7	1385.	0.5200E 02	1.298
1600.	5.307	35.219		5.1610	27.8126	45.4870	1.514	1498.7	1583.	0.4768E 02	1.110
1800.	4.679	35.141		4.5215	27.8241	45.5630	1.608	1499.4	1780.	0.4646E 02	0.796
2000.	4.095	35.065		3.9258	27.8277	45.6280	1.700	1500.2	1976.	0.4554E 02	0.730
2200.	3.746	35.030		3.5623	27.8362	45.6748	1.790	1502.1	2173.	0.4480E 02	0.683
2400.	3.371	34.991		3.1743	27.8430	45.7226	1.879	1503.8	2369.	0.4373E 02	0.702
2600.	3.158	34.977		2.9448	27.8520	45.7567	1.965	1506.3	2566.	0.4307E 02	0.633
2800.	3.002	34.964		2.7716	27.8564	45.7805	2.052	1509.0	2762.	0.4301E 02	0.535
3000.	2.852	34.951		2.6042	27.8594	45.8024	2.138	1511.8	2958.	0.4295E 02	0.522
3200.	2.746	34.939		2.4802	27.8597	45.8174	2.224	1514.7	3153.	0.4331E 02	0.438
3400.	2.659	34.930		2.3738	27.8605	45.8310	2.311	1517.7	3349.	0.4368E 02	0.430
3600.	2.592	34.922		2.2866	27.8593	45.8407	2.399	1520.9	3544.	0.4429E 02	0.369
3800.	2.548	34.916		2.2206	27.8586	45.8488	2.488	1524.1	3739.	0.4498E 02	0.345
4000.	2.510	34.910		2.1615	27.8570	45.8552	2.579	1527.4	3934.	0.4577E 02	0.315
4200.	2.484	34.905		2.1125	27.8557	45.8610	2.671	1530.7	4129.	0.4659E 02	0.305
4400.	2.461	34.901		2.0665	27.8541	45.8662	2.765	1534.1	4324.	0.4744E 02	0.296
4500.	2.459	34.899		2.0524	27.8531	45.8677	2.813	1535.8	4421.	0.4796E 02	0.229
4600.	2.454	34.898		2.0361	27.8522	45.8695	2.861	1537.5	4518.	0.4845E 02	0.254
4700.	2.453	34.896		2.0225	27.8512	45.8710	2.910	1539.2	4616.	0.4897E 02	0.229
4800.	2.455	34.896		2.0119	27.8504	45.8723	2.959	1541.0	4713.	0.4951E 02	0.224
4900.	2.458	34.895		2.0030	27.8493	45.8732	3.009	1542.7	4810.	0.5009E 02	-0.181
5000.	2.465	34.894		1.9967	27.8480	45.8737	3.059	1544.5	4907.	0.5071E 02	0.142
5100.	2.473	34.893		1.9920	27.8470	45.8742	3.110	1546.3	5004.	0.5134E 02	0.146
5200.	2.483	34.893		1.9886	27.8457	45.8745	3.162	1548.0	5101.	0.5199E 02	0.109
5300.	2.493	34.892		1.9851	27.8447	45.8750	3.214	1549.8	5198.	0.5263E 02	0.133
5400.	2.504	34.892		1.9830	27.8434	45.8751	3.267	1551.6	5295.	0.5331E 02	0.073

DISCOVERY 130 STATION 10567

P-DB	T-DEGC	SAL-PSU	DO-ML/L	POTEMP	SIGMAT	SIG4000	DYNHT-M	SNDV-M/S	DEPTH-M	SVANOM	BVFR-CY/HR
10.	21.538	36.618		21.5365	25.5789	41.9898	0.024	1527.6	10.	0.2401E 03	-9.990
20.	21.534	36.660		21.5296	25.6119	42.0227	0.048	1527.8	20.	0.2373E 03	3.255
30.	20.684	36.548		20.6783	25.7586	42.2210	0.071	1525.5	30.	0.2236E 03	6.870
50.	18.389	36.403		18.3806	26.2507	42.8535	0.110	1519.3	50.	0.1776E 03	8.819
75.	17.730	36.431		17.7173	26.4366	43.0811	0.153	1517.9	74.	0.1608E 03	4.867
100.	17.966	36.613		17.9491	26.5179	43.1445	0.192	1519.2	99.	0.1540E 03	3.220
125.	17.248	36.398		17.2269	26.5290	43.2075	0.231	1517.2	124.	0.1536E 03	1.311
150.	16.821	36.319		16.7962	26.5707	43.2798	0.268	1516.3	149.	0.1504E 03	2.343
200.	16.082	36.184		16.0503	26.6407	43.4038	0.342	1514.7	198.	0.1452E 03	2.161
250.	15.087	36.037		15.0483	26.7531	43.5890	0.412	1512.3	248.	0.1357E 03	2.729
300.	14.292	35.921		14.2479	26.8373	43.7332	0.478	1510.5	298.	0.1289E 03	2.378
400.	13.013	35.752		12.9572	26.9738	43.9692	0.601	1507.7	397.	0.1180E 03	2.157
500.	12.027	35.636		11.9603	27.0787	44.1537	0.715	1505.9	496.	0.1100E 03	1.912
600.	11.339	35.562		11.2619	27.1516	44.2842	0.822	1505.1	595.	0.1049E 03	1.616
700.	10.661	35.523		10.5743	27.2449	44.4342	0.924	1504.4	694.	0.9760E 02	1.813
800.	10.195	35.572		10.0971	27.3656	44.5934	1.017	1504.4	793.	0.8786E 02	2.022
900.	9.749	35.645		9.6418	27.4996	44.7639	1.099	1504.6	892.	0.7675E 02	2.127
1000.	9.542	35.729		9.4232	27.6001	44.8818	1.171	1505.6	990.	0.6907E 02	1.831
1200.	8.123	35.620		7.9914	27.7422	45.1489	1.296	1503.5	1188.	0.5661E 02	1.678
1400.	6.356	35.363		6.2192	27.7929	45.3640	1.402	1499.7	1385.	0.5033E 02	1.288
1600.	5.331	35.227		5.1853	27.8158	45.4877	1.500	1498.8	1583.	0.4747E 02	0.989
1800.	4.680	35.142		4.5219	27.8254	45.5642	1.594	1499.4	1779.	0.4634E 02	0.786
2000.	4.147	35.077		3.9765	27.8318	45.6268	1.686	1500.5	1976.	0.4541E 02	0.734
2200.	3.663	35.017		3.4808	27.8346	45.6815	1.776	1501.7	2173.	0.4452E 02	0.700
2400.	3.317	34.983		3.1211	27.8420	45.7271	1.864	1503.6	2369.	0.4352E 02	0.690
2600.	3.152	34.977		2.9393	27.8523	45.7576	1.950	1506.3	2566.	0.4301E 02	0.611
2800.	2.978	34.960		2.7487	27.8556	45.7821	2.036	1508.9	2762.	0.4293E 02	0.537
3000.	2.868	34.951		2.6195	27.8581	45.7996	2.122	1511.8	2958.	0.4317E 02	0.470
3200.	2.762	34.941		2.4955	27.8600	45.8161	2.209	1514.8	3153.	0.4340E 02	0.464
3400.	2.676	34.932		2.3902	27.8599	45.8287	2.296	1517.8	3349.	0.4386E 02	0.411
3600.	2.614	34.924		2.3072	27.8594	45.8387	2.384	1521.0	3544.	0.4446E 02	0.376
3800.	2.560	34.917		2.2332	27.8582	45.8471	2.474	1524.2	3739.	0.4513E 02	0.352
4000.	2.520	34.911		2.1713	27.8568	45.8540	2.565	1527.4	3934.	0.4588E 02	0.328
4200.	2.492	34.906		2.1205	27.8558	45.8602	2.657	1530.7	4129.	0.4666E 02	0.316
4400.	2.473	34.902		2.0788	27.8543	45.8651	2.751	1534.1	4324.	0.4755E 02	0.287
4500.	2.464	34.900		2.0582	27.8534	45.8674	2.799	1535.8	4421.	0.4800E 02	0.279

DISCOVERY 130 STATION 10568

P-DB	T-DEGC	SAL-PSU	DO-ML/L	POTEMP	SIGMAT	SIG4000	DYNHT-M	SNDV-M/S	DEPTH-M	SVANOM	BVFR-CY/HR
10.	22.365	37.011		22.3626	25.6447	42.0014	0.023	1530.2	10.	0.2338E 03	-9.990
20.	22.367	37.010		22.3629	25.6435	42.0007	0.047	1530.4	20.	0.2343E 03	-0.472
30.	22.351	37.012		22.3454	25.6489	42.0077	0.070	1530.5	30.	0.2342E 03	1.387
50.	20.758	37.025		20.7485	26.1037	42.5517	0.113	1526.6	50.	0.1917E 03	8.493
75.	20.204	36.977		20.1894	26.2175	42.6999	0.159	1525.5	74.	0.1818E 03	3.821
100.	19.083	36.839		19.0651	26.4072	42.9603	0.202	1522.6	99.	0.1646E 03	4.928
125.	18.890	36.842		18.8675	26.4592	43.0252	0.243	1522.5	124.	0.1605E 03	2.598
150.	18.670	36.796		18.6429	26.4809	43.0627	0.283	1522.2	149.	0.1593E 03	1.715
200.	17.929	36.621		17.8940	26.5332	43.1674	0.362	1520.7	199.	0.1559E 03	1.889
250.	16.185	36.243		16.1443	26.6620	43.4193	0.436	1515.9	248.	0.1448E 03	2.941
300.	15.281	36.098		15.2348	26.7567	43.5801	0.507	1513.8	298.	0.1370E 03	2.520
400.	13.654	35.836		13.5959	26.9072	43.8544	0.638	1509.9	397.	0.1248E 03	2.272
500.	12.357	35.672		12.2888	27.0427	44.0922	0.756	1507.1	496.	0.1136E 03	2.168
600.	11.432	35.576		11.3542	27.1447	44.2699	0.866	1505.5	595.	0.1056E 03	1.898
700.	10.735	35.534		10.6477	27.2401	44.4233	0.968	1504.6	694.	0.9815E 02	1.832
800.	10.038	35.504		9.9417	27.3399	44.5819	1.062	1503.8	793.	0.9002E 02	1.882
900.	9.385	35.516		9.2806	27.4595	44.7565	1.147	1503.1	892.	0.7985E 02	2.046
1000.	8.878	35.528		8.7644	27.5516	44.8925	1.223	1502.9	991.	0.7229E 02	1.809
1200.	8.418	35.620		8.2845	27.6967	45.0787	1.357	1504.6	1188.	0.6156E 02	1.584
1400.	7.038	35.453		6.8939	27.7704	45.2793	1.473	1502.5	1386.	0.5443E 02	1.355
1600.	5.802	35.301		5.6501	27.8162	45.4432	1.576	1500.8	1583.	0.4909E 02	1.200
1800.	4.958	35.194		4.7965	27.8341	45.5456	1.671	1500.6	1780.	0.4666E 02	0.932
2000.	4.323	35.113		4.1506	27.8415	45.6187	1.763	1501.2	1977.	0.4532E 02	0.791
2200.	3.831	35.054		3.6456	27.8467	45.6765	1.853	1502.5	2173.	0.4427E 02	0.730
2400.	3.380	34.997		3.1828	27.8468	45.7254	1.940	1503.9	2370.	0.4344E 02	0.676
2600.	3.155	34.980		2.9420	27.8549	45.7598	2.026	1506.3	2566.	0.4280E 02	0.632
2800.	2.949	34.960		2.7203	27.8579	45.7872	2.111	1508.8	2762.	0.4253E 02	0.564
3000.	2.803	34.947		2.5566	27.8608	45.8087	2.197	1511.6	2958.	0.4248E 02	0.517
3200.	2.698	34.936		2.4332	27.8615	45.8240	2.282	1514.5	3154.	0.4279E 02	0.443
3400.	2.620	34.927		2.3357	27.8613	45.8356	2.368	1517.6	3350.	0.4330E 02	0.396
3600.	2.556	34.918		2.2508	27.8599	45.8450	2.455	1520.7	3545.	0.4393E 02	0.362
3800.	2.517	34.913		2.1913	27.8589	45.8520	2.544	1524.0	3740.	0.4470E 02	0.322
4000.	2.487	34.907		2.1387	27.8569	45.8575	2.634	1527.3	3935.	0.4557E 02	0.290
4200.	2.460	34.903		2.0894	27.8562	45.8638	2.726	1530.6	4130.	0.4633E 02	0.319
4400.	2.447	34.900		2.0534	27.8546	45.8680	2.819	1534.0	4325.	0.4726E 02	0.266
4500.	2.442	34.898		2.0362	27.8536	45.8698	2.867	1535.7	4422.	0.4775E 02	0.252

DISCOVERY 130 STATION 10569

P-DB	T-DEGC	SAL-PSU	DO-ML/L	POTEMP	SIGMAT	SIG4000	DYNHT-M	SNDV-M/S	DEPTH-M	SVANOM	BVFR-CY/HR
10.	21.702	36.763		21.6998	25.6435	42.0420	0.023	1528.2	10.	0.2339E 03	-9.990
20.	21.566	36.748		21.5621	25.6700	42.0770	0.047	1528.0	20.	0.2318E 03	2.923
30.	21.047	36.694		21.0415	25.7717	42.2099	0.070	1526.7	30.	0.2224E 03	5.708
50.	19.254	36.597		19.2446	26.1782	42.7239	0.109	1522.0	50.	0.1845E 03	8.026
75.	18.347	36.555		18.3337	26.3779	42.9811	0.153	1519.8	74.	0.1664E 03	5.047
100.	17.867	36.544		17.8496	26.4895	43.1240	0.193	1518.8	99.	0.1566E 03	3.782
125.	17.746	36.554		17.7250	26.5267	43.1699	0.232	1518.9	124.	0.1539E 03	2.206
150.	17.171	36.411		17.1460	26.5574	43.2417	0.270	1517.4	149.	0.1517E 03	2.039
200.	16.048	36.212		16.0163	26.6698	43.4344	0.343	1514.6	199.	0.1424E 03	2.724
250.	15.220	36.061		15.1810	26.7423	43.5685	0.413	1512.7	248.	0.1368E 03	2.210
300.	14.404	35.938		14.3593	26.8262	43.7139	0.480	1510.8	298.	0.1300E 03	2.376
400.	13.168	35.775		13.1121	26.9602	43.9438	0.604	1508.3	397.	0.1194E 03	2.137
500.	12.164	35.648		12.0969	27.0618	44.1263	0.719	1506.4	496.	0.1117E 03	1.885
600.	11.418	35.576		11.3400	27.1478	44.2740	0.827	1505.4	595.	0.1053E 03	1.744
700.	10.686	35.534		10.5991	27.2488	44.4358	0.929	1504.5	694.	0.9727E 02	1.884
800.	10.067	35.513		9.9700	27.3420	44.5815	1.023	1503.9	793.	0.8987E 02	1.816
900.	9.509	35.549		9.4029	27.4645	44.7507	1.108	1503.6	892.	0.7960E 02	2.055
1000.	9.057	35.556		8.9426	27.5444	44.8700	1.184	1503.6	991.	0.7331E 02	1.690
1200.	8.260	35.585		8.1272	27.6944	45.0906	1.317	1504.0	1188.	0.6138E 02	1.646
1400.	7.101	35.476		6.9567	27.7796	45.2824	1.432	1502.8	1386.	0.5377E 02	1.384
1600.	5.832	35.308		5.6803	27.8178	45.4420	1.535	1500.9	1583.	0.4904E 02	1.158
1800.	5.125	35.223		4.9607	27.8378	45.5332	1.632	1501.3	1780.	0.4699E 02	0.901
2000.	4.409	35.126		4.2353	27.8425	45.6113	1.724	1501.6	1977.	0.4562E 02	0.801
2200.	3.861	35.056		3.6757	27.8451	45.6719	1.814	1502.6	2173.	0.4457E 02	0.732
2400.	3.428	35.005		3.2300	27.8486	45.7223	1.902	1504.1	2370.	0.4354E 02	0.703
2600.	3.163	34.980		2.9497	27.8540	45.7581	1.989	1506.3	2566.	0.4293E 02	0.629
2800.	2.968	34.962		2.7385	27.8578	45.7852	2.074	1508.9	2762.	0.4266E 02	0.565
3000.	2.818	34.948		2.5712	27.8601	45.8065	2.160	1511.6	2958.	0.4265E 02	0.512
3200.	2.705	34.936		2.4396	27.8607	45.8225	2.245	1514.5	3154.	0.4292E 02	0.453
3400.	2.603	34.924		2.3191	27.8604	45.8365	2.331	1517.5	3350.	0.4325E 02	0.432
3600.	2.544	34.917		2.2394	27.8602	45.8464	2.418	1520.7	3545.	0.4382E 02	0.374
3800.	2.495	34.911		2.1694	27.8592	45.8546	2.507	1523.9	3740.	0.4447E 02	0.348
4000.	2.461	34.906		2.1133	27.8579	45.8610	2.596	1527.2	3935.	0.4524E 02	0.315
4200.	2.432	34.900		2.0621	27.8558	45.8662	2.688	1530.5	4130.	0.4610E 02	0.290
4400.	2.421	34.896		2.0280	27.8540	45.8700	2.781	1533.9	4325.	0.4705E 02	0.255
4500.	2.421	34.895		2.0162	27.8532	45.8714	2.828	1535.6	4422.	0.4758E 02	0.221
4600.	2.425	34.894		2.0075	27.8520	45.8722	2.876	1537.4	4519.	0.4817E 02	0.166
4700.	2.430	34.893		2.0003	27.8508	45.8728	2.925	1539.1	4617.	0.4877E 02	0.155
4800.	2.437	34.893		1.9949	27.8496	45.8733	2.974	1540.9	4714.	0.4939E 02	0.130
4900.	2.445	34.892		1.9903	27.8486	45.8738	3.023	1542.7	4811.	0.5001E 02	0.142
5000.	2.454	34.891		1.9859	27.8472	45.8740	3.074	1544.4	4908.	0.5066E 02	0.103
5100.	2.464	34.891		1.9826	27.8461	45.8744	3.125	1546.2	5005.	0.5130E 02	0.120

DISCOVERY 130 STATION 10571

P-DB	T-DEGC	SAL-PSU	DO-ML/L	POTEMP	SIGMAT	SIG4000	DYNHT-M	SNDV-M/S	DEPTH-M	SVANOM	BVFR-CY/HR
10.	18.649	36.049	5.28	18.6472	25.9141	42.5072	0.021	1519.0	10.	208.19	-9.990
20.	18.650	36.049	5.21	18.6462	25.9135	42.5072	0.042	1519.2	20.	208.60	-0.220
30.	17.104	36.026	5.74	17.0986	26.2757	42.9682	0.061	1514.8	30.	174.28	10.743
50.	15.808	36.055	6.09	15.8001	26.6047	43.3821	0.092	1511.2	50.	143.84	7.202
75.	15.483	36.060	6.13	15.4717	26.6820	43.4824	0.127	1510.7	74.	137.26	3.149
100.	15.189	36.040	6.08	15.1740	26.7328	43.5549	0.160	1510.1	99.	133.16	2.567
125.	14.838	35.987	5.93	14.8191	26.7698	43.6184	0.193	1509.4	124.	130.35	2.204
150.	14.415	35.910	5.86	14.3929	26.8029	43.6840	0.226	1508.4	149.	127.86	2.101
200.	13.548	35.804	5.75	13.5193	26.9043	43.8518	0.288	1506.2	198.	119.44	2.582
250.	12.914	35.742	5.41	12.8794	26.9857	43.9829	0.346	1504.9	248.	112.86	2.322
300.	12.472	35.693	5.42	12.4313	27.0359	44.0688	0.401	1504.2	298.	109.23	1.843
400.	11.720	35.599	5.21	11.6680	27.1082	44.2038	0.508	1503.2	397.	104.47	1.588
500.	11.174	35.543	5.25	11.1101	27.1670	44.3093	0.610	1502.9	496.	100.89	1.443
600.	10.830	35.548	5.06	10.7550	27.2337	44.4059	0.709	1503.3	595.	96.59	1.515
700.	10.941	35.683	4.58	10.8523	27.3190	44.4823	0.803	1505.5	694.	91.03	1.647
800.	10.798	35.806	4.42	10.6972	27.4407	44.6151	0.890	1506.8	792.	81.75	1.992
900.	10.968	35.980	4.33	10.8525	27.5452	44.7053	0.968	1509.3	891.	74.57	1.808
1000.	10.611	35.986	4.38	10.4845	27.6149	44.8057	1.040	1509.7	990.	69.73	1.574
1200.	9.517	35.900	4.56	9.3728	27.7382	45.0235	1.169	1509.0	1188.	60.29	1.548
1400.	7.562	35.583	5.07	7.4128	27.7974	45.2577	1.282	1504.7	1385.	53.46	1.359
1600.	5.778	35.299	5.61	5.6272	27.8178	45.4470	1.385	1500.7	1582.	48.86	1.155
1800.	4.913	35.176	5.74	4.7521	27.8252	45.5414	1.481	1500.4	1779.	47.30	0.848
2000.	4.218	35.080	6.01	4.0469	27.8266	45.6147	1.575	1500.8	1976.	46.21	0.760
2200.	3.739	35.026	6.05	3.5551	27.8341	45.6734	1.666	1502.1	2172.	44.96	0.747
2400.	3.383	34.990	5.95	3.1857	27.8410	45.7196	1.755	1503.9	2368.	43.98	0.692
2600.	3.127	34.969	6.01	2.9143	27.8490	45.7569	1.842	1506.2	2565.	43.16	0.653
2800.	2.940	34.955	5.91	2.7107	27.8547	45.7851	1.928	1508.7	2761.	42.75	0.584
3000.	2.804	34.944	5.84	2.5575	27.8586	45.8065	2.013	1511.6	2956.	42.69	0.520
3200.	2.721	34.936	5.78	2.4553	27.8598	45.8200	2.099	1514.6	3152.	43.12	0.420
3400.	2.655	34.929	5.70	2.3690	27.8596	45.8306	2.185	1517.7	3348.	43.71	0.379
3600.	2.601	34.921	5.65	2.2952	27.8585	45.8390	2.274	1520.9	3543.	44.44	0.342
3800.	2.566	34.917	5.59	2.2386	27.8577	45.8461	2.363	1524.2	3738.	45.22	0.323
4000.	2.548	34.914	5.58	2.1982	27.8574	45.8518	2.455	1527.5	3933.	46.08	0.299
4200.	2.523	34.910	5.57	2.1503	27.8561	45.8575	2.548	1530.9	4128.	46.93	0.301
4400.	2.494	34.904	5.56	2.0992	27.8538	45.8625	2.642	1534.2	4322.	47.80	0.293
4500.	2.492	34.903	5.56	2.0846	27.8531	45.8644	2.691	1535.9	4420.	48.30	0.254
4600.	2.492	34.901	5.55	2.0725	27.8519	45.8655	2.739	1537.7	4517.	48.86	0.205
4700.	2.497	34.900	5.56	2.0649	27.8507	45.8661	2.788	1539.4	4614.	49.48	0.147
4800.	2.505	34.900	5.57	2.0605	27.8495	45.8665	2.838	1541.2	4711.	50.12	0.130
4900.	2.514	34.900	5.57	2.0571	27.8485	45.8669	2.888	1543.0	4808.	50.77	0.118
5000.	2.525	34.900	5.56	2.0550	27.8477	45.8675	2.940	1544.7	4905.	51.41	0.137
5100.	2.538	34.899	5.56	2.0543	27.8461	45.8671	2.991	1546.5	5002.	52.13	-0.098
5200.	2.551	34.899	5.58	2.0542	27.8450	45.8672	3.044	1548.3	5099.	52.83	0.055
5300.	2.565	34.899	5.58	2.0541	27.8441	45.8675	3.097	1550.1	5196.	53.51	0.089

DISCOVERY 130 STATION 10572

P-DB	T-DEGC	SAL-PSU	DO-ML/L	POTEMP	SIGMAT	SIG4000	DYNHT-M	SNDV-M/S	DEPTH-M	SVANOM	BVFR-CY/HR
10.	17.719	35.808	5.43	17.7171	25.9619	42.6189	0.020	1516.0	10.	203.64	-9.990
20.	17.720	35.806	5.19	17.7166	25.9596	42.6171	0.041	1516.2	20.	204.18	-0.754
30.	17.716	35.804	5.11	17.7114	25.9594	42.6177	0.061	1516.4	30.	204.54	0.220
50.	15.266	35.926	6.13	15.2581	26.6274	43.4450	0.096	1509.4	50.	141.63	10.290
75.	14.585	35.893	6.36	14.5741	26.7528	43.6193	0.130	1507.6	74.	130.43	4.003
100.	13.976	35.831	6.14	13.9618	26.8350	43.7471	0.162	1506.0	99.	123.29	3.256
125.	13.640	35.780	5.97	13.6219	26.8668	43.8053	0.192	1505.3	124.	120.92	2.049
150.	13.353	35.745	6.04	13.3318	26.8987	43.8599	0.222	1504.7	149.	118.53	2.052
200.	12.954	35.708	5.66	12.9266	26.9512	43.9444	0.281	1504.2	198.	114.80	1.867
250.	12.479	35.678	5.48	12.4453	27.0230	44.0540	0.336	1503.4	248.	109.15	2.178
300.	12.069	35.630	5.49	12.0291	27.0659	44.1307	0.390	1502.8	297.	106.18	1.710
400.	11.574	35.583	5.36	11.5226	27.1235	44.2306	0.494	1502.7	397.	102.92	1.415
500.	11.114	35.537	5.41	11.0504	27.1735	44.3206	0.596	1502.7	496.	100.22	1.335
600.	10.832	35.550	5.15	10.7567	27.2348	44.4068	0.694	1503.3	594.	96.49	1.450
700.	10.305	35.653	4.79	10.7174	27.3205	44.4951	0.788	1505.0	693.	90.71	1.668
800.	10.993	35.831	4.54	10.8905	27.4245	44.5832	0.875	1507.6	792.	83.56	1.804
900.	11.022	35.962	4.46	10.9063	27.5216	44.6781	0.955	1509.5	891.	76.86	1.765
1000.	10.775	36.006	4.34	10.6475	27.6007	44.7784	1.029	1510.3	990.	71.36	1.646
1200.	9.950	35.967	4.45	9.8028	27.7168	44.9661	1.162	1510.7	1187.	63.27	1.479
1400.	8.022	35.671	4.99	7.8676	27.7979	45.2171	1.280	1506.5	1385.	54.73	1.473
1600.	6.065	35.345	5.46	5.9097	27.8173	45.4196	1.384	1501.9	1582.	49.89	1.184
1800.	4.905	35.167	5.83	4.7437	27.8190	45.5362	1.481	1500.3	1778.	47.84	0.901
2000.	4.200	35.072	6.09	4.0294	27.8221	45.6122	1.576	1500.7	1975.	46.54	0.782
2200.	3.742	35.019	6.05	3.5590	27.8284	45.6675	1.668	1502.1	2172.	45.50	0.722
2400.	3.397	34.990	6.03	3.1998	27.8397	45.7168	1.758	1504.0	2368.	44.18	0.733
2600.	3.185	34.978	5.95	2.9718	27.8501	45.7521	1.845	1506.4	2564.	43.41	0.649
2800.	2.978	34.961	5.89	2.7481	27.8562	45.7827	1.932	1508.9	2760.	42.87	0.606
3000.	2.853	34.949	5.84	2.6054	27.8576	45.8006	2.018	1511.8	2956.	43.12	0.468
3200.	2.756	34.940	5.76	2.4890	27.8595	45.8163	2.104	1514.7	3151.	43.40	0.453
3400.	2.682	34.932	5.71	2.3954	27.8597	45.8280	2.192	1517.8	3347.	43.92	0.399
3600.	2.625	34.925	5.64	2.3180	27.8590	45.8372	2.280	1521.0	3542.	44.59	0.360
3800.	2.581	34.919	5.61	2.2530	27.8581	45.8449	2.370	1524.3	3737.	45.32	0.338
4000.	2.548	34.913	5.59	2.1982	27.8567	45.8512	2.461	1527.5	3932.	46.14	0.311
4200.	2.531	34.909	5.58	2.1585	27.8548	45.8553	2.555	1530.9	4127.	47.13	0.260
4400.	2.517	34.906	5.59	2.1211	27.8536	45.8601	2.650	1534.3	4321.	48.05	0.281
4500.	2.518	34.905	5.58	2.1102	27.8524	45.8611	2.698	1536.0	4418.	48.63	0.193
4600.	2.521	34.904	5.58	2.1009	27.8517	45.8624	2.747	1537.8	4516.	49.19	0.211
4700.	2.525	34.903	5.58	2.0922	27.8506	45.8633	2.797	1539.5	4613.	49.78	0.181
4800.	2.531	34.903	5.58	2.0857	27.8494	45.8639	2.847	1541.3	4710.	50.41	0.150
4900.	2.538	34.902	5.58	2.0799	27.8482	45.8644	2.897	1543.1	4807.	51.05	0.137
5000.	2.548	34.901	5.57	2.0765	27.8470	45.8646	2.949	1544.8	4904.	51.72	0.106
5100.	2.558	34.901	5.59	2.0735	27.8459	45.8650	3.001	1546.6	5001.	52.37	0.122
5200.	2.567	34.900	5.59	2.0693	27.8445	45.8652	3.054	1548.4	5098.	53.05	0.101
5300.	2.577	34.900	5.59	2.0659	27.8432	45.8655	3.107	1550.2	5195.	53.72	0.107

DISCOVERY 130 STATION 10573

P-DB	T-DEGC	SAL-PSU	DO-ML/L	POTEMP	SIGMAT	SIG4000	DYNHT-M	SNDV-M/S	DEPTH-M	SVANOM	BVFR-CY/HR
10.	16.846	35.660	5.60	16.8442	26.0584	42.7752	0.020	1513.3	10.	194.45	-9.990
20.	16.647	35.665	5.50	16.6433	26.1094	42.8395	0.039	1512.8	20.	189.93	4.025
30.	16.614	35.664	5.53	16.6096	26.1167	42.8494	0.058	1512.9	30.	189.56	1.561
50.	16.414	35.649	5.54	16.4057	26.1520	42.8994	0.096	1512.6	50.	186.81	2.396
75.	13.488	35.621	6.22	13.4771	26.7750	43.7266	0.132	1503.8	74.	128.19	8.898
100.	12.715	35.614	6.36	12.7014	26.9264	43.9360	0.162	1501.6	99.	114.41	4.401
125.	12.518	35.602	6.19	12.5007	26.9562	43.9817	0.191	1501.4	124.	112.22	1.973
150.	12.250	35.566	6.17	12.2297	26.9813	44.0287	0.218	1500.8	149.	110.43	1.828
200.	12.118	35.569	6.15	12.0920	27.0090	44.0681	0.273	1501.2	198.	109.04	1.365
250.	11.847	35.530	6.15	11.8145	27.0310	44.1134	0.328	1501.1	248.	108.11	1.242
300.	11.577	35.493	6.13	11.5388	27.0529	44.1586	0.381	1500.9	297.	107.14	1.245
400.	11.339	35.493	5.59	11.2875	27.0974	44.2250	0.487	1501.7	396.	105.20	1.239
500.	10.935	35.459	5.50	10.8724	27.1458	44.3088	0.591	1501.9	495.	102.66	1.309
600.	10.603	35.439	5.24	10.5291	27.1899	44.3827	0.693	1502.4	594.	100.44	1.257
700.	10.409	35.505	4.93	10.3236	27.2757	44.4852	0.794	1503.5	693.	94.39	1.689
800.	10.841	35.815	4.54	10.7395	27.4399	44.6107	0.879	1507.0	792.	81.89	2.242
900.	10.806	35.906	4.44	10.6916	27.5175	44.6920	0.959	1508.7	891.	76.88	1.593
1000.	10.311	35.860	4.44	10.1866	27.5703	44.7877	1.033	1508.5	990.	73.32	1.426
1200.	8.797	35.671	4.65	8.6602	27.6771	45.0266	1.172	1506.1	1187.	64.28	1.513
1400.	6.931	35.398	5.21	6.7881	27.7428	45.2625	1.292	1502.0	1384.	56.66	1.388
1600.	4.958	35.096	5.91	4.8166	27.7568	45.4670	1.400	1497.1	1581.	51.56	1.166
1800.	4.237	35.003	6.24	4.0858	27.7637	45.5483	1.501	1497.4	1778.	50.18	0.790
2000.	3.922	34.985	6.28	3.7552	27.7828	45.6019	1.600	1499.4	1974.	48.85	0.760
2200.	3.624	34.973	6.25	3.4422	27.8035	45.6555	1.696	1501.5	2171.	47.15	0.784
2400.	3.440	34.978	6.08	3.2415	27.8255	45.6990	1.789	1504.1	2367.	45.70	0.745
2600.	3.202	34.968	6.06	2.9881	27.8408	45.7414	1.879	1506.5	2563.	44.36	0.722
2800.	3.022	34.960	5.95	2.7911	27.8515	45.7738	1.967	1509.1	2759.	43.57	0.640
3000.	2.872	34.950	5.86	2.6240	27.8567	45.7978	2.054	1511.8	2955.	43.33	0.554
3200.	2.761	34.941	5.76	2.4944	27.8599	45.8161	2.140	1514.8	3150.	43.41	0.492
3400.	2.659	34.931	5.67	2.3737	27.8607	45.8312	2.227	1517.7	3346.	43.66	0.452
3600.	2.600	34.924	5.61	2.2938	27.8603	45.8409	2.315	1520.9	3541.	44.26	0.372
3800.	2.573	34.918	5.57	2.2457	27.8578	45.8454	2.405	1524.2	3736.	45.28	0.254
4000.	2.543	34.913	5.53	2.1934	27.8571	45.8520	2.496	1527.5	3931.	46.07	0.321
4200.	2.522	34.909	5.54	2.1496	27.8553	45.8568	2.589	1530.9	4125.	46.99	0.277
4400.	2.516	34.906	5.54	2.1205	27.8531	45.8597	2.684	1534.3	4320.	48.08	0.223
4500.	2.516	34.904	5.54	2.1079	27.8522	45.8611	2.733	1536.0	4417.	48.63	0.221
4600.	2.519	34.905	5.55	2.0988	27.8521	45.8630	2.782	1537.8	4514.	49.13	0.254
4700.	2.525	34.904	5.54	2.0921	27.8508	45.8635	2.831	1539.5	4611.	49.76	0.137
4800.	2.534	34.903	5.57	2.0886	27.8498	45.8640	2.881	1541.3	4708.	50.41	0.134
4900.	2.544	34.903	5.55	2.0854	27.8486	45.8642	2.932	1543.1	4805.	51.08	0.093
5000.	2.556	34.903	5.58	2.0847	27.8475	45.8643	2.983	1544.9	4902.	51.76	0.073

DISCOVERY 130 STATION 10574

P-DB	T-DEGC	SAL-PSU	DO-ML/L	POTEMP	SIGMAT	SIG4000	DYNHT-M	SNDV-M/S	DEPTH-M	SVANOM	BVFR-CY/HR
10.	16.035	35.655	5.66	16.0333	26.2443	43.0148	0.018	1510.8	10.	176.79	-9.990
20.	15.872	35.654	5.51	15.8693	26.2811	43.0629	0.036	1510.5	20.	173.61	3.424
30.	15.844	35.652	5.61	15.8393	26.2860	43.0702	0.053	1510.6	30.	173.45	1.293
50.	15.232	35.645	6.07	15.2248	26.4185	43.2454	0.087	1509.0	50.	161.43	4.596
75.	12.888	35.669	6.40	12.8778	26.9345	43.9288	0.120	1501.8	74.	113.01	8.098
100.	12.595	35.664	6.17	12.5818	26.9892	44.0063	0.148	1501.3	99.	108.45	2.657
125.	12.421	35.650	6.17	12.4040	27.0125	44.0439	0.175	1501.1	124.	106.87	1.752
150.	12.279	35.630	6.17	12.2588	27.0253	44.0689	0.201	1501.0	149.	106.27	1.325
200.	12.106	35.610	6.15	12.0792	27.0436	44.1025	0.254	1501.2	198.	105.77	1.128
250.	11.937	35.586	6.12	11.9043	27.0568	44.1309	0.307	1501.4	248.	105.72	0.980
300.	11.769	35.564	6.07	11.7300	27.0717	44.1609	0.360	1501.7	297.	105.47	1.038
400.	11.386	35.524	5.66	11.3346	27.1132	44.2362	0.465	1501.9	396.	103.75	1.212
500.	11.004	35.488	5.53	10.9407	27.1559	44.3128	0.567	1502.2	495.	101.77	1.237
600.	10.435	35.430	5.25	10.3621	27.2126	44.4188	0.667	1501.8	594.	98.13	1.434
700.	9.871	35.387	4.91	9.7882	27.2769	44.5322	0.763	1501.4	693.	93.56	1.526
800.	9.105	35.346	4.69	9.0143	27.3722	44.6938	0.852	1500.2	792.	85.54	1.855
900.	8.186	35.284	4.69	8.0890	27.4687	44.8712	0.933	1498.4	891.	76.83	1.902
1000.	7.354	35.238	4.98	7.2516	27.5566	45.0341	1.005	1496.8	989.	68.71	1.834
1200.	6.345	35.224	5.24	6.2294	27.6847	45.2562	1.131	1496.2	1187.	57.48	1.567
1400.	4.638	35.006	5.99	4.5204	27.7216	45.4602	1.240	1492.4	1384.	51.58	1.207
1600.	4.061	34.946	6.35	3.9305	27.7369	45.5362	1.341	1493.2	1581.	50.12	0.787
1800.	3.780	34.929	6.49	3.6348	27.7525	45.5830	1.440	1495.4	1778.	49.31	0.688
2000.	3.657	34.936	6.49	3.4950	27.7703	45.6163	1.539	1498.2	1974.	48.76	0.643
2200.	3.633	34.972	6.23	3.4516	27.8019	45.6530	1.635	1501.5	2170.	47.34	0.746
2400.	3.432	34.970	6.13	3.2336	27.8203	45.6948	1.728	1504.1	2367.	46.12	0.718
2600.	3.243	34.973	5.94	3.0281	27.8408	45.7374	1.819	1506.7	2563.	44.60	0.744
2800.	3.065	34.963	5.84	2.8338	27.8498	45.7678	1.907	1509.3	2759.	44.01	0.617
3000.	2.893	34.950	5.78	2.6441	27.8552	45.7944	1.994	1511.9	2954.	43.60	0.580
3200.	2.781	34.941	5.73	2.5140	27.8584	45.8127	2.082	1514.9	3150.	43.68	0.493
3400.	2.704	34.934	5.72	2.4175	27.8594	45.8255	2.169	1517.9	3345.	44.12	0.418
3600.	2.625	34.926	5.61	2.3183	27.8597	45.8379	2.258	1521.0	3540.	44.52	0.420
3800.	2.586	34.919	5.58	2.2578	27.8578	45.8441	2.348	1524.3	3735.	45.39	0.303
4000.	2.569	34.916	5.56	2.2187	27.8569	45.8493	2.439	1527.6	3930.	46.32	0.282
4200.	2.551	34.912	5.54	2.1779	27.8549	45.8535	2.533	1531.0	4125.	47.31	0.261
4400.	2.552	34.909	5.51	2.1546	27.8528	45.8559	2.629	1534.5	4319.	48.46	0.203
4500.	2.547	34.907	5.52	2.1380	27.8519	45.8578	2.678	1536.2	4416.	48.96	0.254
4600.	2.547	34.906	5.52	2.1255	27.8508	45.8591	2.727	1537.9	4513.	49.52	0.218
4700.	2.550	34.905	5.51	2.1161	27.8497	45.8600	2.777	1539.6	4610.	50.12	0.181
4800.	2.557	34.905	5.55	2.1104	27.8489	45.8609	2.827	1541.4	4708.	50.72	0.183

DISCOVERY 130 STATION 10575

P-DB	T-DEGC	SAL-PSU	DO-ML/L	POTEMP	SIGMAT	SIG4000	DYNHT-M	SNDV-M/S	DEPTH-M	SVANOM	BVFR-CY/HR
10.	19.631	36.072	5.20	19.6287	25.6782	42.2116	0.023	1521.8	10.	230.62	-9.990
20.	19.351	36.061	5.41	19.3479	25.7426	42.2935	0.046	1521.2	20.	224.84	4.529
30.	18.716	36.072	5.83	18.7105	25.9140	42.5037	0.068	1519.6	30.	208.87	7.377
50.	16.285	36.042	6.57	16.2768	26.4840	43.2300	0.103	1512.7	50.	155.32	9.505
75.	15.283	35.992	6.73	15.2715	26.6746	43.4903	0.140	1509.9	74.	137.93	4.931
100.	14.761	35.970	6.43	14.7456	26.7737	43.6270	0.173	1508.7	99.	129.23	3.566
125.	14.422	35.923	6.25	14.4036	26.8113	43.6905	0.205	1508.0	124.	126.34	2.223
150.	14.087	35.865	6.22	14.0655	26.8381	43.7435	0.236	1507.2	149.	124.45	1.893
200.	13.563	35.795	5.80	13.5346	26.8943	43.8409	0.298	1506.3	198.	120.39	1.935
250.	12.983	35.753	5.55	12.9486	26.9807	43.9725	0.356	1505.2	248.	113.36	2.387
300.	12.431	35.683	5.49	12.3900	27.0364	44.0727	0.412	1504.0	298.	109.16	1.944
400.	11.715	35.603	5.40	11.6628	27.1128	44.2086	0.518	1503.2	397.	104.03	1.625
500.	11.180	35.551	5.16	11.1163	27.1720	44.3137	0.620	1502.9	496.	100.42	1.447
600.	10.886	35.567	4.80	10.8112	27.2381	44.4054	0.718	1503.6	595.	96.24	1.503
700.	10.833	35.688	4.57	10.7449	27.3423	44.5138	0.811	1505.2	694.	88.71	1.837
800.	11.054	35.901	4.41	10.9512	27.4678	44.6201	0.895	1507.9	793.	79.59	1.979
900.	11.028	36.020	4.37	10.9119	27.5657	44.7203	0.971	1509.6	891.	72.75	1.780
1000.	10.498	35.990	4.46	10.3725	27.6384	44.8378	1.041	1509.3	990.	67.33	1.636
1200.	9.851	35.994	4.59	9.7048	27.7550	45.0112	1.167	1510.3	1188.	59.51	1.460
1400.	7.876	35.665	5.23	7.7237	27.8157	45.2472	1.280	1506.0	1385.	52.67	1.369
1600.	5.889	35.329	5.76	5.7367	27.8275	45.4459	1.380	1501.2	1582.	48.35	1.142
1800.	4.885	35.180	5.93	4.7248	27.8315	45.5501	1.474	1500.3	1779.	46.61	0.868
2000.	4.376	35.118	5.94	4.2029	27.8395	45.6116	1.567	1501.5	1976.	45.74	0.738
2200.	3.872	35.054	5.94	3.6862	27.8429	45.6687	1.657	1502.7	2172.	44.83	0.716
2400.	3.517	35.017	5.93	3.3170	27.8489	45.7138	1.746	1504.5	2369.	44.01	0.681
2600.	3.216	34.985	5.89	3.0018	27.8532	45.7520	1.834	1506.6	2565.	43.31	0.644
2800.	3.026	34.967	5.83	2.7950	27.8569	45.7786	1.920	1509.1	2761.	43.12	0.558
3000.	2.860	34.951	5.79	2.6123	27.8591	45.8014	2.006	1511.8	2957.	43.03	0.529
3200.	2.740	34.940	5.71	2.4741	27.8607	45.8190	2.092	1514.7	3152.	43.18	0.478
3400.	2.646	34.929	5.66	2.3607	27.8608	45.8326	2.179	1517.7	3348.	43.55	0.427
3600.	2.578	34.921	5.63	2.2729	27.8598	45.8426	2.267	1520.8	3543.	44.13	0.375
3800.	2.506	34.912	5.60	2.1803	27.8588	45.8530	2.355	1523.9	3738.	44.61	0.391
4000.	2.452	34.904	5.59	2.1053	27.8572	45.8612	2.445	1527.1	3933.	45.23	0.355
4200.	2.423	34.899	5.57	2.0533	27.8560	45.8673	2.536	1530.4	4128.	45.99	0.313
4400.	2.422	34.897	5.57	2.0295	27.8541	45.8700	2.629	1533.9	4323.	47.06	0.213
4500.	2.430	34.896	5.59	2.0249	27.8531	45.8704	2.677	1535.7	4420.	47.68	0.124

DISCOVERY 130 STATION 10576

P-DB	T-DEGC	SAL-PSU	DO-ML/L	POTEMP	SIGMAT	SIG4000	DYNHT-M	SNDV-M/S	DEPTH-M	SVANOM	BVFR-CY/HR
10.	19.300	36.088	5.72	19.2984	25.7766	42.3293	0.022	1520.9	10.	221.27	-9.990
20.	19.295	36.088	5.54	19.2916	25.7782	42.3318	0.044	1521.1	20.	221.46	0.813
30.	19.049	36.079	5.93	19.0437	25.8350	42.4043	0.066	1520.5	30.	216.40	4.260
50.	17.369	36.211	6.50	17.3602	26.3558	43.0273	0.105	1516.1	50.	167.55	9.085
75.	16.266	36.217	6.41	16.2539	26.6233	43.3674	0.143	1513.2	74.	142.91	5.835
100.	15.868	36.187	6.17	15.8524	26.6924	43.4649	0.178	1512.4	99.	137.10	2.986
125.	15.323	36.087	6.19	15.3041	26.7387	43.5516	0.212	1511.0	124.	133.39	2.470
150.	14.649	35.955	6.24	14.6264	26.7865	43.6502	0.245	1509.1	149.	129.47	2.517
200.	14.012	35.865	5.89	13.9829	26.8544	43.7671	0.308	1507.8	198.	124.32	2.123
250.	13.189	35.761	5.70	13.1541	26.9447	43.9213	0.369	1505.8	248.	116.85	2.451
300.	12.608	35.696	5.56	12.5667	27.0113	44.0342	0.426	1504.7	298.	111.62	2.116
400.	11.753	35.588	5.50	11.7010	27.0940	44.1873	0.534	1503.3	397.	105.83	1.694
500.	11.185	35.538	5.22	11.1219	27.1610	44.3026	0.637	1502.9	496.	101.46	1.532
600.	10.913	35.559	4.80	10.8376	27.2277	44.3931	0.737	1503.6	595.	97.25	1.507
700.	10.795	35.652	4.51	10.7073	27.3214	44.4968	0.831	1505.0	694.	90.62	1.752
800.	10.642	35.760	4.42	10.5418	27.4327	44.6205	0.918	1506.2	793.	82.26	1.910
900.	10.522	35.861	4.36	10.4099	27.5333	44.7309	0.995	1507.6	891.	74.93	1.817
1000.	10.301	35.907	4.41	10.1764	27.6086	44.8256	1.067	1508.5	990.	69.73	1.604
1200.	9.699	35.927	4.58	9.5539	27.7282	44.9983	1.197	1509.7	1188.	61.64	1.471
1400.	8.048	35.676	5.10	7.8933	27.7980	45.2149	1.314	1506.6	1385.	54.79	1.369
1600.	6.439	35.406	5.52	6.2795	27.8161	45.3835	1.418	1503.4	1582.	51.29	1.092
1800.	5.151	35.213	5.84	4.9865	27.8267	45.5200	1.517	1501.4	1779.	48.11	1.014
2000.	4.463	35.114	5.92	4.2877	27.8273	45.5915	1.611	1501.8	1976.	47.25	0.746
2200.	3.906	35.045	5.97	3.7196	27.8318	45.6546	1.705	1502.8	2172.	46.01	0.756
2400.	3.500	34.999	5.96	3.3010	27.8362	45.7032	1.796	1504.4	2369.	45.06	0.696
2600.	3.226	34.973	5.92	3.0113	27.8424	45.7406	1.885	1506.6	2565.	44.35	0.646
2800.	3.026	34.955	5.85	2.7952	27.8472	45.7693	1.973	1509.1	2761.	43.99	0.583
3000.	2.859	34.939	5.81	2.6112	27.8496	45.7923	2.061	1511.8	2957.	43.88	0.531
3200.	2.762	34.930	5.76	2.4952	27.8509	45.8074	2.149	1514.8	3152.	44.21	0.443
3400.	2.682	34.920	5.71	2.3961	27.8504	45.8190	2.238	1517.8	3348.	44.75	0.394
3600.	2.629	34.915	5.67	2.3227	27.8505	45.8285	2.328	1521.0	3543.	45.38	0.369
3800.	2.566	34.906	5.64	2.2391	27.8488	45.8374	2.419	1524.2	3738.	46.01	0.362
4000.	2.519	34.900	5.62	2.1701	27.8481	45.8457	2.512	1527.4	3933.	46.64	0.357
4200.	2.469	34.893	5.62	2.0979	27.8476	45.8546	2.606	1530.6	4128.	47.17	0.379
4400.	2.434	34.895	5.61	2.0405	27.8518	45.8666	2.701	1533.9	4323.	47.38	0.442

DISCOVERY 130 STATION 10582

P-DB	T-DEGC	SAL-PSU	DO-ML/L	POTEMP	SIGMAT	SIG4000	DYNHT-M	SNDV-M/S	DEPTH-M	SVANOM	BVFR-CY/HR
10.	19.687	36.070	5.64	19.6852	25.6622	42.1922	0.024	1522.0	10.	232.14	-9.990
20.	19.295	36.057	5.80	19.2913	25.7547	42.3090	0.047	1521.0	20.	223.69	5.425
30.	17.460	36.077	6.44	17.4551	26.2307	42.8987	0.067	1515.9	30.	178.72	12.282
50.	15.866	36.105	6.72	15.8580	26.6294	43.4017	0.098	1511.5	50.	141.50	7.948
75.	15.358	36.083	6.50	15.3461	26.7281	43.5365	0.132	1510.3	74.	132.87	3.556
100.	14.754	35.982	6.38	14.7392	26.7843	43.6378	0.165	1508.7	99.	128.22	2.707
125.	14.372	35.918	6.31	14.3532	26.8180	43.7009	0.197	1507.8	124.	125.70	2.109
150.	13.974	35.850	6.18	13.9523	26.8508	43.7646	0.228	1506.9	149.	123.21	2.091
200.	13.238	35.764	5.71	13.2096	26.9371	43.9081	0.288	1505.2	198.	116.24	2.384
250.	12.796	35.736	5.59	12.7612	27.0050	44.0110	0.344	1504.5	248.	110.99	2.119
300.	12.273	35.666	5.53	12.2328	27.0545	44.1030	0.399	1503.5	298.	107.37	1.839
400.	11.588	35.591	5.33	11.5362	27.1276	44.2334	0.504	1502.7	397.	102.55	1.591
500.	11.152	35.555	5.21	11.0886	27.1803	44.3240	0.605	1502.8	496.	99.62	1.364
600.	10.787	35.555	4.86	10.7121	27.2474	44.4227	0.702	1503.2	595.	95.26	1.521
700.	10.863	35.701	4.50	10.7751	27.3474	44.5162	0.795	1505.3	694.	88.27	1.786
800.	11.177	35.922	4.40	11.0736	27.4620	44.6043	0.879	1508.3	793.	80.32	1.880
900.	11.124	36.042	4.32	11.0078	27.5646	44.7113	0.955	1509.9	891.	73.01	1.825
1000.	10.835	36.054	4.31	10.7074	27.6276	44.7994	1.026	1510.6	990.	68.96	1.493
1200.	9.875	35.980	4.57	9.7280	27.7398	44.9947	1.156	1510.4	1188.	60.96	1.474
1400.	8.023	35.710	5.15	7.8690	27.8281	45.2462	1.268	1506.6	1385.	51.94	1.500
1600.	6.373	35.438	5.57	6.2142	27.8505	45.4228	1.368	1503.2	1582.	47.90	1.132
1800.	5.055	35.207	5.91	4.8916	27.8336	45.5358	1.463	1501.0	1779.	47.10	0.787
2000.	4.352	35.114	5.96	4.1787	27.8391	45.6137	1.555	1501.4	1976.	45.67	0.803
2200.	3.972	35.076	5.89	3.7846	27.8495	45.6651	1.645	1503.1	2172.	44.73	0.721
2400.	3.534	35.022	5.90	3.3338	27.8512	45.7143	1.734	1504.6	2369.	43.89	0.686
2600.	3.165	34.978	5.90	2.9519	27.8523	45.7562	1.821	1506.3	2565.	43.09	0.657
2800.	2.976	34.962	5.82	2.7464	27.8572	45.7839	1.906	1508.9	2761.	42.76	0.575
3000.	2.842	34.950	5.73	2.5943	27.8597	45.8038	1.992	1511.7	2957.	42.85	0.497
3200.	2.718	34.938	5.70	2.4526	27.8613	45.8217	2.078	1514.6	3152.	42.97	0.482
3400.	2.624	34.928	5.65	2.3392	27.8613	45.8354	2.164	1517.6	3348.	43.32	0.428
3600.	2.565	34.919	5.63	2.2598	27.8599	45.8440	2.251	1520.8	3543.	44.01	0.347
3800.	2.497	34.911	5.61	2.1710	27.8594	45.8546	2.340	1523.9	3738.	44.47	0.395
4000.	2.438	34.903	5.59	2.0909	27.8578	45.8633	2.429	1527.1	3933.	45.04	0.366
4200.	2.425	34.900	5.53	2.0560	27.8561	45.8671	2.520	1530.5	4128.	46.01	0.251

DISCOVERY 130 STATION 10583

P-DB	T-DEGC	SAL-PSU	DO-ML/L	POTEMP	SIGMAT	SIG4000	DYNHT-M	SNDV-M/S	DEPTH-M	SVANOM	BVFR-CY/HR
10.	19.435	36.059	5.53	19.4336	25.7191	42.2644	0.023	1521.2	10.	226.73	-9.990
20.	19.416	36.059	5.44	19.4125	25.7245	42.2715	0.045	1521.4	20.	226.57	1.353
30.	19.304	36.053	5.46	19.2984	25.7493	42.3037	0.068	1521.2	30.	224.56	2.828
50.	16.365	36.040	6.52	16.3568	26.4639	43.2047	0.107	1512.9	50.	157.22	10.644
75.	15.447	36.055	6.47	15.4357	26.6866	43.4896	0.144	1510.5	74.	136.81	5.325
100.	15.096	36.018	6.28	15.0806	26.7367	43.5658	0.177	1509.8	99.	132.78	2.551
125.	14.543	35.938	6.15	14.5244	26.7965	43.6669	0.210	1508.4	124.	127.76	2.790
150.	14.205	35.886	6.01	14.1830	26.8288	43.7253	0.241	1507.6	149.	125.36	2.069
200.	13.522	35.820	5.49	13.4934	26.9218	43.8708	0.302	1506.2	198.	117.77	2.471
250.	12.940	35.753	5.40	12.9052	26.9893	43.9843	0.360	1505.0	248.	112.53	2.122
300.	12.351	35.676	5.36	12.3111	27.0464	44.0888	0.415	1503.8	298.	108.18	1.969
400.	11.617	35.590	5.21	11.5653	27.1212	44.2248	0.520	1502.8	397.	103.16	1.612
500.	11.152	35.563	5.01	11.0884	27.1867	44.3301	0.622	1502.8	496.	99.02	1.506
600.	10.926	35.602	4.65	10.8501	27.2582	44.4215	0.719	1503.7	595.	94.40	1.551
700.	10.754	35.699	4.40	10.6659	27.3655	44.5429	0.809	1504.9	694.	86.43	1.876
800.	10.710	35.823	4.37	10.6098	27.4700	44.6507	0.892	1506.6	793.	78.88	1.838
900.	10.340	35.840	4.34	10.2285	27.5491	44.7615	0.968	1506.9	891.	73.15	1.661
1000.	9.924	35.855	4.41	9.8030	27.6334	44.8812	1.038	1507.1	990.	66.71	1.724
1200.	9.525	35.926	4.61	9.3810	27.7569	45.0409	1.162	1509.1	1188.	58.58	1.467
1400.	7.659	35.625	5.22	7.5087	27.8165	45.2675	1.274	1505.1	1385.	51.97	1.347
1600.	6.117	35.383	5.62	5.9617	27.8407	45.4372	1.373	1502.1	1582.	47.93	1.122
1800.	5.146	35.229	5.80	4.9822	27.8399	45.5331	1.468	1501.4	1779.	46.88	0.809
2000.	4.537	35.144	5.90	4.3607	27.8429	45.5993	1.561	1502.2	1976.	46.16	0.733
2200.	3.950	35.064	5.96	3.7632	27.8424	45.6604	1.652	1503.0	2172.	45.27	0.719
2400.	3.547	35.018	5.95	3.3471	27.8466	45.7086	1.741	1504.6	2369.	44.38	0.692
2600.	3.227	34.988	5.89	3.0130	27.8540	45.7516	1.829	1506.6	2565.	43.32	0.692
2800.	3.011	34.966	5.83	2.7802	27.8570	45.7802	1.916	1509.1	2761.	43.01	0.575
3000.	2.839	34.949	5.79	2.5921	27.8594	45.8037	2.001	1511.7	2957.	42.86	0.537
3200.	2.747	34.939	5.73	2.4807	27.8596	45.8172	2.088	1514.7	3152.	43.33	0.417
3400.	2.683	34.932	5.68	2.3969	27.8600	45.8281	2.175	1517.8	3348.	43.91	0.385
3600.	2.616	34.924	5.64	2.3091	27.8591	45.8382	2.263	1521.0	3543.	44.50	0.375
3800.	2.563	34.917	5.61	2.2353	27.8582	45.8468	2.353	1524.2	3738.	45.15	0.358
4000.	2.515	34.910	5.60	2.1667	27.8569	45.8546	2.444	1527.4	3933.	45.83	0.346
4200.	2.486	34.906	5.58	2.1147	27.8559	45.8609	2.536	1530.7	4128.	46.60	0.319
4400.	2.478	34.902	5.56	2.0831	27.8537	45.8641	2.630	1534.1	4323.	47.64	0.234
4500.	2.481	34.901	5.54	2.0738	27.8525	45.8649	2.678	1535.9	4420.	48.24	0.170

DISCOVERY 130 STATION 10584

P-DB	T-DEGC	SAL-PSU	DO-ML/L	POTEMP	SIGMAT	SIG4000	DYNHT-M	SNDV-M/S	DEPTH-M	SVANOM	BVFR-CY/HR
10.	19.709	36.062	5.41	19.7072	25.6497	42.1787	0.024	1522.0	10.	233.31	-9.990
20.	19.462	36.052	5.57	19.4582	25.7071	42.2515	0.047	1521.5	20.	228.23	4.267
30.	19.238	36.050	5.67	19.2330	25.7636	42.3221	0.070	1521.0	30.	223.19	4.249
50.	15.564	35.968	6.84	15.5562	26.5927	43.3889	0.106	1510.4	50.	144.95	11.464
75.	14.916	35.965	6.66	14.9049	26.7355	43.5772	0.141	1508.8	74.	132.11	4.270
100.	14.508	35.919	6.40	14.4934	26.7896	43.6618	0.173	1507.8	99.	127.68	2.647
125.	14.244	35.885	6.30	14.2259	26.8199	43.7126	0.205	1507.4	124.	125.49	1.998
150.	13.813	35.824	6.08	13.7911	26.8642	43.7902	0.236	1506.3	149.	121.91	2.414
200.	13.112	35.762	5.67	13.0845	26.9614	43.9416	0.295	1504.8	198.	113.89	2.524
250.	12.605	35.702	5.59	12.5710	27.0166	44.0376	0.350	1503.8	248.	109.81	1.926
300.	12.204	35.662	5.54	12.1636	27.0649	44.1187	0.404	1503.3	298.	106.34	1.807
400.	11.613	35.603	5.42	11.5615	27.1322	44.2358	0.508	1502.8	397.	102.13	1.526
500.	11.149	35.563	5.15	11.0857	27.1872	44.3309	0.609	1502.8	496.	98.97	1.393
600.	10.808	35.577	4.80	10.7327	27.2605	44.4336	0.706	1503.3	595.	94.06	1.581
700.	10.794	35.692	4.46	10.7058	27.3528	44.5272	0.797	1505.0	694.	87.68	1.728
800.	10.873	35.867	4.39	10.7717	27.4750	44.6419	0.880	1507.2	793.	78.66	1.970
900.	10.863	35.976	4.31	10.7486	27.5615	44.7297	0.956	1508.9	891.	72.87	1.674
1000.	10.651	36.023	4.35	10.5244	27.6364	44.8231	1.026	1509.9	990.	67.80	1.599
1200.	9.737	35.961	4.63	9.5910	27.7488	45.0150	1.154	1509.9	1188.	59.82	1.470
1400.	7.932	35.666	5.15	7.7786	27.8082	45.2350	1.267	1506.2	1385.	53.52	1.334
1600.	5.892	35.326	5.76	5.7393	27.8248	45.4431	1.368	1501.2	1582.	48.61	1.186
1800.	4.904	35.178	5.95	4.7436	27.8278	45.5448	1.464	1500.4	1779.	47.02	0.852
2000.	4.380	35.113	5.98	4.2064	27.8354	45.6074	1.558	1501.5	1976.	46.13	0.741
2200.	3.877	35.052	5.96	3.6913	27.8406	45.6660	1.649	1502.7	2172.	45.06	0.734
2400.	3.536	35.018	5.91	3.3365	27.8483	45.7113	1.738	1504.6	2369.	44.17	0.690
2600.	3.252	34.990	5.87	3.0373	27.8533	45.7484	1.825	1506.7	2565.	43.53	0.639
2800.	2.968	34.959	5.87	2.7381	27.8554	45.7830	1.912	1508.9	2761.	42.87	0.624
3000.	2.850	34.951	5.77	2.6025	27.8596	45.8028	1.998	1511.8	2957.	42.92	0.504
3200.	2.746	34.940	5.71	2.4799	27.8600	45.8177	2.084	1514.7	3152.	43.28	0.437
3400.	2.672	34.931	5.66	2.3857	27.8602	45.8295	2.171	1517.8	3348.	43.80	0.398
3600.	2.622	34.926	5.63	2.3155	27.8599	45.8384	2.259	1521.0	3543.	44.48	0.356
3800.	2.580	34.919	5.60	2.2525	27.8585	45.8454	2.349	1524.3	3738.	45.27	0.322
4000.	2.548	34.914	5.59	2.1979	27.8568	45.8513	2.440	1527.5	3933.	46.13	0.301
4200.	2.516	34.908	5.58	2.1439	27.8551	45.8572	2.533	1530.9	4128.	46.95	0.310
4400.	2.482	34.902	5.57	2.0873	27.8534	45.8633	2.628	1534.2	4323.	47.72	0.322
4500.	2.483	34.901	5.56	2.0763	27.8521	45.8643	2.676	1535.9	4420.	48.30	0.184
4600.	2.489	34.900	5.56	2.0695	27.8514	45.8653	2.724	1537.6	4517.	48.88	0.188
4700.	2.498	34.900	5.56	2.0664	27.8501	45.8654	2.774	1539.4	4614.	49.55	0.069
4800.	2.502	34.899	5.56	2.0574	27.8489	45.8662	2.823	1541.2	4711.	50.15	0.174
4900.	2.493	34.897	5.57	2.0362	27.8484	45.8689	2.874	1542.9	4808.	50.54	0.317
5000.	2.498	34.896	5.54	2.0290	27.8470	45.8694	2.925	1544.6	4905.	51.17	0.144
5100.	2.508	34.896	5.55	2.0256	27.8459	45.8699	2.976	1546.4	5002.	51.81	0.130

DISCOVERY 150 STATION 10505

P-DB	T-DEGC	SAL-PSU	DO-ML/L	POTEMP	SIGMAT	SIG4000	DYNHT-M	SNDV-M/S	DEPTH-M	SVANOM	BVFR-CY/HR
10.	20.240	36.108	5.22	20.2383	25.5435	42.0403	0.025	1523.5	10.	243.35	-9.990
20.	19.571	36.089	5.43	19.5674	25.7071	42.2442	0.049	1521.8	20.	228.23	7.184
30.	19.406	36.075	5.45	19.4010	25.7389	42.2868	0.071	1521.5	30.	225.55	3.197
50.	16.918	35.988	6.35	16.9099	26.2928	42.9988	0.112	1514.5	50.	173.46	9.376
75.	15.087	35.909	6.65	15.0754	26.6544	43.4857	0.151	1509.2	74.	139.82	6.781
100.	14.419	35.881	6.31	14.4040	26.7797	43.6592	0.184	1507.5	99.	128.60	4.007
125.	13.944	35.845	6.00	13.9261	26.8531	43.7681	0.215	1506.3	124.	122.28	3.081
150.	13.620	35.835	5.61	13.5982	26.9137	43.8532	0.245	1505.7	149.	117.18	2.800
200.	12.944	35.771	5.44	12.9162	27.0026	43.9949	0.302	1504.2	198.	109.94	2.417
250.	12.290	35.672	5.52	12.2564	27.0559	44.1011	0.356	1502.7	248.	105.96	1.903
300.	11.949	35.631	5.38	11.9094	27.0900	44.1638	0.408	1502.4	298.	103.85	1.532
400.	11.332	35.555	5.34	11.2805	27.1474	44.2738	0.510	1501.8	397.	100.49	1.422
500.	10.997	35.545	5.10	10.9339	27.2011	44.3571	0.609	1502.3	496.	97.52	1.365
600.	10.875	35.615	4.76	10.8001	27.2778	44.4447	0.705	1503.6	595.	92.51	1.591
700.	10.844	35.741	4.50	10.7561	27.3818	44.5510	0.793	1505.3	694.	85.03	1.833
800.	11.278	35.975	4.34	11.1737	27.4846	44.6178	0.875	1508.7	793.	78.36	1.763
900.	10.927	35.989	4.31	10.8121	27.5598	44.7228	0.951	1509.2	891.	73.14	1.621
1000.	10.646	36.018	4.35	10.5196	27.6336	44.8208	1.021	1509.9	990.	68.06	1.601
1200.	9.868	35.999	4.61	9.7207	27.7560	45.0109	1.148	1510.4	1188.	59.45	1.507
1400.	8.067	35.721	5.13	7.9127	27.8307	45.2448	1.259	1506.8	1385.	51.83	1.419
1600.	6.027	35.369	5.74	5.8722	27.8413	45.4463	1.357	1501.8	1582.	47.55	1.144
1800.	4.991	35.210	5.89	4.8289	27.8433	45.5513	1.450	1500.8	1779.	45.95	0.860
2000.	4.552	35.150	5.87	4.3755	27.8461	45.6008	1.542	1502.2	1976.	45.94	0.641
2200.	4.026	35.083	5.90	3.8378	27.8496	45.6599	1.633	1503.3	2172.	44.99	0.729
2400.	3.594	35.031	5.87	3.3929	27.8526	45.7097	1.722	1504.8	2369.	44.10	0.696
2600.	3.262	34.994	5.90	3.0466	27.8556	45.7497	1.810	1506.8	2565.	43.38	0.652
2800.	3.027	34.967	5.87	2.7966	27.8566	45.7781	1.896	1509.1	2761.	43.15	0.564
3000.	2.855	34.950	5.80	2.6075	27.8589	45.8017	1.982	1511.8	2957.	43.01	0.537
3200.	2.742	34.940	5.76	2.4760	27.8611	45.8191	2.068	1514.7	3152.	43.16	0.477
3400.	2.669	34.932	5.69	2.3834	27.8610	45.8304	2.155	1517.8	3348.	43.71	0.391
3600.	2.620	34.926	5.64	2.3131	27.8602	45.8388	2.243	1521.0	3543.	44.44	0.344
3800.	2.588	34.920	5.62	2.2599	27.8585	45.8446	2.333	1524.3	3738.	45.34	0.292
4000.	2.559	34.916	5.59	2.2086	27.8577	45.8511	2.424	1527.6	3933.	46.15	0.316
4200.	2.530	34.910	5.58	2.1576	27.8558	45.8564	2.518	1530.9	4128.	47.03	0.293
4400.	2.512	34.905	5.59	2.1167	27.8528	45.8598	2.613	1534.3	4323.	48.07	0.242
4500.	2.510	34.904	5.59	2.1028	27.8525	45.8619	2.661	1536.0	4420.	48.54	0.269
4600.	2.509	34.903	5.58	2.0892	27.8515	45.8634	2.710	1537.7	4517.	49.08	0.230
4700.	2.510	34.902	5.59	2.0778	27.8508	45.8649	2.759	1539.5	4614.	49.61	0.231
4800.	2.514	34.901	5.57	2.0691	27.8494	45.8656	2.809	1541.2	4711.	50.23	0.158
4900.	2.517	34.900	5.57	2.0600	27.8486	45.8668	2.860	1543.0	4808.	50.79	0.214
5000.	2.495	34.896	5.61	2.0253	27.8477	45.8705	2.911	1544.6	4905.	51.07	0.378

DISCOVERY 130 STATION 10586

P-DB	T-DEGC	SAL-PSU	DO-ML/L	POTEMP	SIGMAT	SIG4000	DYNHT-M	SNDV-M/S	DEPTH-M	SVANOM	BVFR-CY/HR
10.	20.803	36.098	5.37	20.8008	25.3854	41.8499	0.026	1525.0	10.	258.47	-9.990
20.	19.678	36.065	5.56	19.6744	25.6601	42.1915	0.051	1522.1	20.	232.68	9.330
30.	19.186	36.034	5.69	19.1802	25.7648	42.3269	0.073	1520.8	30.	223.07	5.769
50.	16.871	36.009	6.48	16.8630	26.3201	43.0287	0.114	1514.4	50.	170.84	9.388
75.	15.478	36.026	6.68	15.4660	26.6574	43.4591	0.151	1510.6	74.	139.58	6.544
100.	14.740	35.954	6.42	14.7253	26.7655	43.6207	0.185	1508.6	99.	129.99	3.728
125.	14.416	35.918	6.22	14.3979	26.8088	43.6886	0.217	1508.0	124.	126.57	2.375
150.	14.042	35.860	6.13	14.0197	26.8437	43.7524	0.248	1507.1	149.	123.91	2.149
200.	13.352	35.799	5.64	13.3238	26.9407	43.9025	0.308	1505.6	198.	115.93	2.522
250.	12.659	35.712	5.57	12.6246	27.0137	44.0304	0.365	1504.0	248.	110.11	2.208
300.	12.255	35.676	5.51	12.2153	27.0656	44.1151	0.419	1503.4	298.	106.31	1.868
400.	11.565	35.584	5.38	11.5134	27.1265	44.2343	0.523	1502.6	397.	102.63	1.466
500.	11.198	35.567	5.05	11.1342	27.1817	44.3215	0.624	1503.0	496.	99.53	1.385
600.	10.871	35.580	4.84	10.7959	27.2513	44.4194	0.722	1503.5	595.	94.99	1.543
700.	10.749	35.695	4.51	10.6610	27.3629	44.5407	0.813	1504.9	694.	86.68	1.906
800.	10.726	35.820	4.37	10.6255	27.4646	44.6442	0.896	1506.6	793.	79.41	1.813
900.	10.642	35.899	4.36	10.5290	27.5410	44.7283	0.973	1508.1	891.	74.41	1.588
1000.	10.478	35.952	4.40	10.3523	27.6124	44.8144	1.044	1509.2	990.	69.71	1.555
1200.	9.959	36.008	4.55	9.8116	27.7474	44.9948	1.174	1510.7	1188.	60.46	1.541
1400.	7.881	35.652	5.22	7.7280	27.8043	45.2358	1.288	1506.0	1385.	53.74	1.363
1600.	5.963	35.346	5.76	5.8096	27.8311	45.4424	1.390	1501.5	1582.	48.28	1.225
1800.	4.934	35.184	5.97	4.7731	27.8289	45.5429	1.485	1500.5	1779.	47.04	0.819
2000.	4.486	35.133	5.92	4.3107	27.8398	45.6012	1.579	1501.9	1976.	46.21	0.738
2200.	3.954	35.069	5.94	3.7674	27.8457	45.6633	1.670	1503.0	2172.	44.98	0.758
2400.	3.546	35.022	5.93	3.3462	27.8505	45.7124	1.758	1504.6	2369.	44.02	0.701
2600.	3.196	34.985	5.92	2.9820	27.8545	45.7553	1.845	1506.5	2565.	43.08	0.677
2800.	3.010	34.967	5.86	2.7799	27.8581	45.7813	1.931	1509.1	2761.	42.91	0.553
3000.	2.862	34.952	5.80	2.6142	27.8599	45.8019	2.017	1511.8	2957.	42.97	0.503
3200.	2.751	34.941	5.75	2.4845	27.8611	45.8183	2.103	1514.7	3152.	43.22	0.461
3400.	2.669	34.932	5.69	2.3831	27.8608	45.8303	2.190	1517.8	3348.	43.72	0.401
3600.	2.607	34.924	5.65	2.3008	27.8603	45.8402	2.278	1520.9	3543.	44.33	0.373
3800.	2.542	34.916	5.63	2.2153	27.8592	45.8498	2.367	1524.1	3738.	44.89	0.377
4000.	2.490	34.909	5.61	2.1423	27.8578	45.8580	2.458	1527.3	3933.	45.52	0.354
4200.	2.440	34.901	5.60	2.0700	27.8561	45.8657	2.549	1530.5	4128.	46.14	0.354
4400.	2.424	34.897	5.60	2.0309	27.8546	45.8703	2.642	1533.9	4323.	47.03	0.277
4500.	2.428	34.897	5.58	2.0226	27.8535	45.8711	2.690	1535.7	4420.	47.62	0.168
4600.	2.437	34.896	5.57	2.0195	27.8523	45.8713	2.738	1537.4	4517.	48.27	0.091

DISCOVERY 130 STATION 10587

P-DB	T-DEGC	SAL-PSU	DO-ML/L	POTEMP	SIGMAT	SIG4000	DYNHT-M	SNDV-M/S	DEPTH-M	SVANOM	BVFR-CY/HR
10.	20.746	36.102	5.42	20.7442	25.4033	41.8709	0.026	1524.9	10.	256.76	-9.990
20.	19.609	36.042	5.67	19.6049	25.6612	42.1972	0.050	1521.9	20.	232.57	9.041
30.	18.687	36.018	6.00	18.6817	25.8805	42.4733	0.073	1519.4	30.	212.04	8.342
50.	16.644	36.067	6.77	16.6355	26.4196	43.1414	0.109	1513.8	50.	161.45	9.242
75.	15.775	36.100	6.83	15.7635	26.6466	43.4263	0.146	1511.6	74.	140.64	5.376
100.	15.308	36.048	6.69	15.2922	26.7124	43.5262	0.181	1510.5	99.	135.12	2.915
125.	14.743	35.968	6.46	14.7241	26.7759	43.6316	0.214	1509.0	124.	129.76	2.874
150.	14.396	35.915	6.33	14.3739	26.8103	43.6926	0.246	1508.3	149.	127.16	2.134
200.	13.594	35.806	6.02	13.5655	26.8961	43.8403	0.308	1506.4	198.	120.23	2.382
250.	12.977	35.758	5.75	12.9422	26.9856	43.9777	0.367	1505.1	248.	112.90	2.428
300.	12.480	35.698	5.71	12.4398	27.0381	44.0703	0.422	1504.2	298.	109.03	1.887
400.	11.648	35.592	5.75	11.5963	27.1171	44.2183	0.528	1502.9	397.	103.57	1.658
500.	11.191	35.567	5.33	11.1279	27.1830	44.3233	0.630	1503.0	496.	99.40	1.510
600.	10.881	35.591	4.87	10.8053	27.2583	44.4253	0.727	1503.6	595.	94.35	1.598
700.	10.837	35.704	4.57	10.7490	27.3542	44.5249	0.818	1505.2	694.	87.60	1.763
800.	10.725	35.798	4.43	10.6240	27.4480	44.6282	0.903	1506.6	793.	80.96	1.754
900.	10.389	35.847	4.40	10.2776	27.5460	44.7544	0.979	1507.1	891.	73.52	1.826
1000.	10.311	35.934	4.43	10.1868	27.6276	44.8430	1.049	1508.6	990.	67.98	1.639
1200.	9.663	35.960	4.64	9.5180	27.7599	45.0319	1.175	1509.6	1188.	58.62	1.542
1400.	7.581	35.604	5.29	7.4315	27.8115	45.2697	1.285	1504.8	1385.	52.21	1.336
1600.	5.974	35.347	5.73	5.8208	27.8309	45.4411	1.384	1501.5	1582.	48.34	1.105
1800.	4.946	35.192	5.92	4.7845	27.8344	45.5470	1.478	1500.5	1779.	46.59	0.871
2000.	4.412	35.120	5.96	4.2375	27.8373	45.6060	1.571	1501.6	1976.	46.11	0.695
2200.	3.951	35.065	5.95	3.7637	27.8432	45.6612	1.662	1503.0	2172.	45.20	0.719
2400.	3.559	35.021	5.94	3.3587	27.8480	45.7087	1.751	1504.7	2369.	44.32	0.690
2600.	3.265	34.990	5.91	3.0502	27.8521	45.7460	1.839	1506.8	2565.	43.71	0.636
2800.	3.084	34.972	5.85	2.8519	27.8552	45.7711	1.927	1509.4	2761.	43.65	0.542
3000.	2.909	34.956	5.80	2.6605	27.8584	45.7957	2.014	1512.0	2957.	43.44	0.552
3200.	2.750	34.940	5.74	2.4837	27.8605	45.8178	2.100	1514.7	3152.	43.27	0.534
3400.	2.676	34.932	5.69	2.3896	27.8606	45.8295	2.187	1517.8	3348.	43.79	0.399
3600.	2.621	34.925	5.65	2.3140	27.8598	45.8384	2.276	1521.0	3543.	44.48	0.354
3800.	2.569	34.918	5.62	2.2412	27.8584	45.8464	2.365	1524.2	3738.	45.19	0.344
4000.	2.527	34.913	5.61	2.1776	27.8578	45.8543	2.456	1527.5	3933.	45.85	0.350
4200.	2.494	34.907	5.60	2.1223	27.8560	45.8603	2.549	1530.8	4128.	46.66	0.309
4400.	2.488	34.904	5.60	2.0926	27.8541	45.8635	2.643	1534.2	4323.	47.71	0.233
4500.	2.489	34.902	5.59	2.0821	27.8529	45.8645	2.691	1535.9	4420.	48.29	0.189
4600.	2.495	34.902	5.60	2.0755	27.8519	45.8652	2.740	1537.7	4517.	48.90	0.158
4700.	2.502	34.901	5.60	2.0700	27.8508	45.8657	2.789	1539.4	4614.	49.53	0.138
4800.	2.512	34.901	5.59	2.0677	27.8494	45.8657	2.839	1541.2	4711.	50.21	0.050
4900.	2.481	34.896	5.60	2.0251	27.8488	45.8705	2.889	1542.8	4808.	50.38	0.423

DISCOVERY 130 STATION 10588

P-DB	T-DEGC	SAL-PSU	DO-ML/L	POTEMP	SIGMAT	SIG4000	DYNHT-M	SNDV-M/S	DEPTH-M	SVANOM	BVFR-CY/HR
10.	20.779	36.321	5.13	20.7770	25.5620	42.0226	0.024	1525.2	10.	241.68	-9.990
20.	20.563	36.302	5.25	20.5592	25.6053	42.0794	0.048	1524.8	20.	237.91	3.732
30.	19.861	36.237	5.53	19.8559	25.7433	42.2603	0.071	1523.0	30.	225.15	6.615
50.	17.234	36.276	6.38	17.2259	26.4382	43.1167	0.110	1515.8	50.	159.72	10.495
75.	16.232	36.237	6.28	16.2204	26.6469	43.3927	0.147	1513.2	74.	140.67	5.157
100.	15.958	36.217	6.09	15.9417	26.6950	43.4608	0.182	1512.7	99.	136.87	2.498
125.	15.407	36.115	6.15	15.3874	26.7415	43.5481	0.216	1511.3	124.	133.14	2.474
150.	14.896	36.034	5.99	14.8729	26.7930	43.6376	0.249	1510.0	149.	128.91	2.600
200.	13.886	35.881	5.54	13.8574	26.8927	43.8140	0.311	1507.4	198.	120.65	2.567
250.	13.019	35.764	5.52	12.9842	26.9820	43.9709	0.369	1505.3	248.	113.26	2.439
300.	12.466	35.699	5.48	12.4259	27.0417	44.0749	0.424	1504.2	298.	108.68	2.008
400.	11.639	35.593	5.37	11.5873	27.1195	44.2214	0.530	1502.9	397.	103.34	1.647
500.	11.150	35.547	5.12	11.0864	27.1748	44.3188	0.632	1502.8	496.	100.14	1.399
600.	10.845	35.567	4.74	10.7702	27.2460	44.4164	0.730	1503.4	595.	95.46	1.556
700.	10.660	35.657	4.45	10.5732	27.3492	44.5349	0.822	1504.5	694.	87.84	1.843
800.	10.665	35.802	4.35	10.5645	27.4618	44.6466	0.905	1506.4	793.	79.58	1.901
900.	10.447	35.858	4.33	10.3351	27.5440	44.7476	0.982	1507.3	891.	73.80	1.666
1000.	10.149	35.896	4.40	10.0263	27.6263	44.8554	1.053	1508.0	990.	67.80	1.685
1200.	9.650	35.955	4.61	9.5050	27.7583	45.0315	1.179	1509.6	1188.	58.74	1.523
1400.	7.772	35.642	5.18	7.6203	27.8128	45.2538	1.291	1505.5	1385.	52.64	1.318
1600.	6.309	35.413	5.50	6.1517	27.8389	45.4175	1.391	1502.9	1582.	48.75	1.115
1800.	5.096	35.227	5.84	4.9330	27.8438	45.5416	1.486	1501.2	1779.	46.33	0.945
2000.	4.249	35.106	5.95	4.0778	27.8440	45.6284	1.577	1500.9	1976.	44.76	0.817
2200.	3.787	35.049	5.94	3.6029	27.8478	45.6818	1.666	1502.3	2172.	43.95	0.697
2400.	3.429	35.008	5.91	3.2311	27.8505	45.7240	1.753	1504.1	2369.	43.38	0.644
2600.	3.151	34.980	5.88	2.9378	27.8553	45.7606	1.840	1506.3	2565.	42.73	0.633
2800.	2.957	34.961	5.83	2.7281	27.8583	45.7868	1.925	1508.8	2761.	42.55	0.551
3000.	2.808	34.947	5.78	2.5613	27.8606	45.8081	2.010	1511.6	2957.	42.53	0.513
3200.	2.704	34.937	5.72	2.4390	27.8616	45.8235	2.095	1514.5	3152.	42.83	0.446
3400.	2.643	34.930	5.68	2.3577	27.8613	45.8334	2.181	1517.7	3348.	43.48	0.366
3600.	2.581	34.921	5.65	2.2756	27.8601	45.8426	2.269	1520.8	3543.	44.13	0.359
3800.	2.532	34.915	5.63	2.2052	27.8591	45.8508	2.358	1524.0	3738.	44.80	0.348
4000.	2.493	34.908	5.62	2.1447	27.8574	45.8573	2.448	1527.3	3933.	45.58	0.317
4200.	2.458	34.903	5.61	2.0872	27.8564	45.8642	2.540	1530.6	4128.	46.29	0.333
4400.	2.441	34.899	5.60	2.0476	27.8544	45.8683	2.634	1534.0	4323.	47.22	0.264
4500.	2.443	34.898	5.61	2.0369	27.8531	45.8693	2.681	1535.7	4420.	47.80	0.183
4600.	2.446	34.897	5.60	2.0282	27.8520	45.8701	2.729	1537.5	4517.	48.39	0.173
4700.	2.455	34.896	5.60	2.0244	27.8511	45.8706	2.778	1539.2	4614.	49.00	0.140
4800.	2.465	34.896	5.60	2.0214	27.8498	45.8708	2.827	1541.0	4712.	49.66	0.083
4900.	2.476	34.896	5.60	2.0195	27.8486	45.8709	2.877	1542.8	4809.	50.33	0.069
5000.	2.488	34.895	5.60	2.0185	27.8475	45.8710	2.928	1544.6	4906.	51.01	0.053
5100.	2.499	34.895	5.60	2.0171	27.8463	45.8711	2.979	1546.4	5003.	51.68	0.073
5200.	2.512	34.895	5.60	2.0162	27.8449	45.8710	3.031	1548.2	5100.	52.38	-0.057
5300.	2.525	34.895	5.62	2.0163	27.8436	45.8708	3.084	1550.0	5196.	53.09	-0.066

DISCOVERY 130 STATION 10591

P-DB	T-DEGC	SAL-PSU	DO-ML/L	POTEMP	SIGMAT	SIG4000	DYNHT-M	SNDV-M/S	DEPTH-M	SVANOM	BVFR-CY/HR
10.	20.414	36.086	5.35	20.4120	25.4810	41.9681	0.025	1524.0	10.	249.37	-9.990
20.	19.455	36.040	5.82	19.4510	25.6996	42.2448	0.049	1521.4	20.	228.93	8.322
30.	19.078	36.029	5.86	19.0724	25.7890	42.3577	0.072	1520.5	30.	220.77	5.334
50.	15.746	35.957	6.99	15.7381	26.5430	43.3272	0.108	1510.9	50.	149.67	10.934
75.	14.880	35.931	6.91	14.8687	26.7176	43.5626	0.143	1508.6	74.	133.81	4.717
100.	14.592	35.930	6.50	14.5773	26.7796	43.6457	0.176	1508.1	99.	128.64	2.827
125.	14.325	35.897	6.35	14.3064	26.8117	43.6984	0.207	1507.6	124.	126.28	2.055
150.	14.076	35.863	6.14	14.0543	26.8390	43.7452	0.239	1507.2	149.	124.36	1.904
200.	13.141	35.753	5.71	13.1128	26.9488	43.9272	0.298	1504.8	198.	115.09	2.686
250.	12.726	35.725	5.49	12.6916	27.0103	44.0217	0.354	1504.3	248.	110.46	2.019
300.	12.304	35.689	5.29	12.2639	27.0658	44.1113	0.409	1503.6	298.	106.32	1.929
400.	11.528	35.581	5.42	11.4762	27.1312	44.2418	0.513	1502.5	397.	102.16	1.519
500.	11.101	35.553	5.10	11.0380	27.1882	44.3358	0.613	1502.6	496.	98.83	1.411
600.	10.856	35.601	4.73	10.7804	27.2706	44.4393	0.710	1503.5	595.	93.17	1.660
700.	10.828	35.713	4.45	10.7394	27.3632	44.5344	0.800	1505.2	694.	86.75	1.732
800.	10.894	35.859	4.36	10.7920	27.4648	44.6304	0.883	1507.2	793.	79.64	1.800
900.	11.036	36.013	4.34	10.9196	27.5587	44.7128	0.959	1509.6	891.	73.42	1.719
1000.	10.680	36.020	4.38	10.5527	27.6293	44.8139	1.030	1510.0	990.	68.51	1.584
1200.	9.986	36.039	4.56	9.8378	27.7669	45.0115	1.157	1510.9	1188.	58.70	1.574
1400.	8.137	35.734	5.10	7.9816	27.8302	45.2381	1.268	1507.0	1385.	52.07	1.362
1600.	6.395	35.436	5.60	6.2360	27.8454	45.4158	1.369	1503.3	1582.	48.44	1.103
1800.	4.970	35.199	5.98	4.8080	27.8371	45.5474	1.463	1500.7	1779.	46.44	0.906
2000.	4.563	35.149	5.86	4.3869	27.8437	45.5974	1.556	1502.3	1976.	46.21	0.669
2200.	3.864	35.054	5.96	3.6788	27.8433	45.6698	1.647	1502.6	2172.	44.76	0.782
2400.	3.582	35.027	5.88	3.3813	27.8506	45.7089	1.736	1504.8	2369.	44.22	0.646
2600.	3.256	34.992	5.87	3.0415	27.8549	45.7496	1.824	1506.7	2565.	43.41	0.663
2800.	3.069	34.973	5.82	2.8373	27.8571	45.7745	1.910	1509.3	2761.	43.37	0.536
3000.	2.895	34.956	5.79	2.6464	27.8595	45.7982	1.997	1512.0	2957.	43.24	0.539
3200.	2.782	34.943	5.75	2.5146	27.8596	45.8138	2.084	1514.9	3152.	43.58	0.445
3400.	2.672	34.931	5.71	2.3856	27.8603	45.8295	2.171	1517.8	3348.	43.79	0.461
3600.	2.602	34.924	5.67	2.2962	27.8601	45.8405	2.259	1520.9	3543.	44.30	0.394
3800.	2.547	34.916	5.66	2.2203	27.8586	45.8487	2.349	1524.1	3738.	44.99	0.347
4000.	2.491	34.908	5.62	2.1431	27.8574	45.8575	2.439	1527.3	3933.	45.56	0.368
4200.	2.451	34.901	5.62	2.0811	27.8553	45.8638	2.531	1530.6	4128.	46.32	0.318
4400.	2.451	34.900	5.62	2.0570	27.8540	45.8670	2.625	1534.0	4323.	47.36	0.232
4500.	2.456	34.899	5.63	2.0500	27.8530	45.8678	2.672	1535.8	4420.	47.95	0.171
4600.	2.458	34.898	5.62	2.0397	27.8521	45.8690	2.721	1537.5	4517.	48.50	0.204
4700.	2.460	34.897	5.62	2.0297	27.8510	45.8700	2.769	1539.3	4614.	49.07	0.191
4800.	2.464	34.896	5.62	2.0211	27.8498	45.8708	2.819	1541.0	4711.	49.66	0.176

DISCOVERY 130 STATION 10592

P-DB	T-DEGC	SAL-PSU	DO-ML/L	POTEMP	SIGMAT	SIG4000	DYNHT-M	SNDV-M/S	DEPTH-M	SVANOM	BVFR-CY/HR
10.	20.252	36.103	5.26	20.2501	25.5377	42.0338	0.024	1523.6	10.	243.98	-9.990
20.	20.138	36.098	5.29	20.1347	25.5640	42.0674	0.049	1523.4	20.	241.84	2.910
30.	19.421	36.078	5.60	19.4152	25.7374	42.2843	0.072	1521.6	30.	225.68	7.420
50.	16.346	35.994	6.58	16.3383	26.4327	43.1760	0.111	1512.8	50.	160.16	10.501
75.	15.250	35.952	6.66	15.2389	26.6515	43.4705	0.148	1509.8	74.	140.11	5.278
100.	14.642	35.917	6.37	14.6272	26.7587	43.6217	0.181	1508.3	99.	130.62	3.710
125.	14.100	35.861	6.11	14.0822	26.8325	43.7360	0.213	1506.9	124.	124.26	3.090
150.	13.526	35.779	5.97	13.5045	26.8894	43.8372	0.244	1505.3	149.	119.45	2.732
200.	12.819	35.748	5.55	12.7918	27.0100	44.0120	0.300	1503.8	198.	109.20	2.800
250.	12.444	35.704	5.46	12.4106	27.0502	44.0830	0.354	1503.3	248.	106.57	1.650
300.	12.126	35.663	5.41	12.0860	27.0805	44.1401	0.407	1503.0	298.	104.84	1.450
400.	11.602	35.606	5.24	11.5503	27.1365	44.2409	0.510	1502.8	397.	101.71	1.400
500.	11.185	35.578	5.08	11.1215	27.1926	44.3331	0.610	1503.0	496.	98.49	1.401
600.	10.882	35.615	4.70	10.8065	27.2763	44.4427	0.706	1503.6	595.	92.65	1.678
700.	10.850	35.728	4.52	10.7619	27.3703	44.5394	0.795	1505.3	694.	86.11	1.745
800.	11.298	35.966	4.37	11.1936	27.4734	44.6053	0.878	1508.8	793.	79.44	1.763
900.	10.930	35.986	4.33	10.8146	27.5568	44.7197	0.954	1509.2	891.	73.42	1.702
1000.	10.851	36.067	4.33	10.7227	27.6346	44.8048	1.025	1510.7	990.	68.34	1.603
1200.	9.943	36.033	4.60	9.7958	27.7689	45.0170	1.151	1510.7	1188.	58.42	1.581
1400.	7.994	35.705	5.13	7.8402	27.8294	45.2500	1.262	1506.5	1385.	51.74	1.362
1600.	6.140	35.387	5.69	5.9840	27.8404	45.4348	1.361	1502.2	1582.	48.03	1.102
1800.	5.071	35.217	5.86	4.9074	27.8393	45.5398	1.455	1501.1	1779.	46.64	0.843
2000.	4.519	35.148	5.86	4.3428	27.8476	45.6055	1.547	1502.1	1976.	45.65	0.761
2200.	3.788	35.038	6.04	3.6041	27.8383	45.6726	1.638	1502.3	2172.	44.82	0.707
2400.	3.467	35.004	6.01	3.2682	27.8439	45.7140	1.727	1504.3	2369.	44.18	0.653
2600.	3.205	34.981	5.95	2.9908	27.8511	45.7511	1.815	1506.5	2565.	43.44	0.649
2800.	3.018	34.965	5.88	2.7879	27.8552	45.7777	1.901	1509.1	2761.	43.22	0.560
3000.	2.862	34.951	5.83	2.6146	27.8585	45.8006	1.987	1511.8	2957.	43.10	0.534
3200.	2.735	34.939	5.76	2.4693	27.8608	45.8196	2.074	1514.7	3152.	43.13	0.498
3400.	2.667	34.931	5.69	2.3812	27.8606	45.8303	2.160	1517.8	3348.	43.73	0.380
3600.	2.611	34.925	5.65	2.3045	27.8604	45.8399	2.248	1521.0	3543.	44.35	0.369
3800.	2.577	34.919	5.62	2.2495	27.8589	45.8460	2.338	1524.2	3738.	45.22	0.302
4000.	2.534	34.913	5.62	2.1843	27.8576	45.8534	2.429	1527.5	3933.	45.93	0.338
4200.	2.493	34.906	5.62	2.1216	27.8558	45.8601	2.522	1530.8	4128.	46.67	0.329
4400.	2.473	34.902	5.62	2.0780	27.8541	45.8650	2.616	1534.1	4323.	47.56	0.285
4500.	2.471	34.901	5.61	2.0649	27.8532	45.8665	2.664	1535.8	4420.	48.08	0.231
4600.	2.478	34.900	5.62	2.0593	27.8519	45.8669	2.712	1537.6	4517.	48.72	0.118
4700.	2.483	34.899	5.63	2.0514	27.8507	45.8675	2.761	1539.4	4614.	49.33	0.157
4800.	2.488	34.898	5.60	2.0437	27.8499	45.8686	2.811	1541.1	4711.	49.91	0.195

DISCOVERY 130 STATION 10593

P-DB	T-DEGC	SAL-PSU	DO-ML/L	POTEMP	SIGMAT	SIG4000	DYNHT-M	SNDV-M/S	DEPTH-M	SVANOM	BVFR-CY/HR
10.	20.297	36.088	5.57	20.2951	25.5141	42.0079	0.025	1523.7	10.	246.22	-9.990
20.	20.147	36.087	5.56	20.1434	25.5531	42.0563	0.050	1523.4	20.	242.88	3.534
30.	19.570	36.042	6.01	19.5649	25.6707	42.2096	0.073	1521.9	30.	232.00	6.124
50.	17.296	36.008	6.71	17.2881	26.2177	42.8988	0.114	1515.7	50.	180.64	9.311
75.	15.955	36.019	6.95	15.9429	26.5427	43.3125	0.155	1512.1	74.	150.51	6.429
100.	15.010	35.975	6.83	14.9947	26.7227	43.5588	0.190	1509.5	99.	134.09	4.798
125.	14.382	35.911	6.50	14.3631	26.8102	43.6926	0.223	1507.8	124.	126.43	3.362
150.	14.122	35.870	6.41	14.1000	26.8345	43.7373	0.254	1507.4	149.	124.80	1.801
200.	13.396	35.789	5.90	13.3680	26.9242	43.8830	0.315	1505.7	198.	117.51	2.429
250.	12.853	35.764	5.64	12.8189	27.0150	44.0161	0.372	1504.7	248.	110.07	2.442
300.	12.306	35.695	5.55	12.2656	27.0704	44.1157	0.425	1503.6	298.	105.88	1.939
400.	11.687	35.620	5.29	11.6351	27.1315	44.2290	0.529	1503.1	397.	102.25	1.462
500.	11.295	35.602	5.07	11.2311	27.1908	44.3222	0.630	1503.4	496.	98.77	1.434
600.	10.819	35.582	4.82	10.7437	27.2622	44.4343	0.726	1503.3	595.	93.91	1.577
700.	10.815	35.697	4.50	10.7273	27.3530	44.5256	0.817	1505.1	694.	87.69	1.713
800.	11.005	35.865	4.38	10.9031	27.4493	44.6062	0.901	1507.6	793.	81.25	1.736
900.	10.772	35.952	4.34	10.6575	27.5594	44.7353	0.979	1508.6	891.	72.92	1.913
1000.	10.528	36.010	4.38	10.4020	27.6483	44.8449	1.048	1509.5	990.	66.47	1.736
1200.	9.327	35.887	4.74	9.1851	27.7593	45.0600	1.172	1508.3	1188.	57.90	1.496
1400.	7.860	35.678	5.09	7.7079	27.8284	45.2609	1.281	1505.9	1385.	51.45	1.338
1600.	6.090	35.370	5.63	5.9348	27.8336	45.4329	1.380	1502.0	1582.	48.48	1.041
1800.	4.821	35.163	5.94	4.6614	27.8254	45.5505	1.475	1500.0	1779.	46.91	0.854
2000.	4.231	35.087	6.01	4.0595	27.8309	45.6177	1.568	1500.8	1976.	45.87	0.752
2200.	3.825	35.040	6.00	3.6401	27.8365	45.6672	1.658	1502.4	2172.	45.17	0.684
2400.	3.466	35.005	5.95	3.2670	27.8450	45.7151	1.748	1504.3	2369.	44.08	0.711
2600.	3.188	34.982	5.89	2.9746	27.8530	45.7546	1.835	1506.4	2565.	43.17	0.670
2800.	2.991	34.962	5.90	2.7610	27.8554	45.7807	1.921	1509.0	2761.	43.02	0.548
3000.	2.855	34.948	5.79	2.6069	27.8573	45.8002	2.008	1511.8	2957.	43.15	0.490
3200.	2.734	34.936	5.75	2.4681	27.8585	45.8175	2.094	1514.7	3152.	43.33	0.472
3400.	2.672	34.929	5.70	2.3863	27.8585	45.8278	2.181	1517.8	3348.	43.95	0.374
3600.	2.620	34.923	5.66	2.3136	27.8577	45.8364	2.270	1521.0	3543.	44.66	0.348
3800.	2.578	34.916	5.64	2.2504	27.8560	45.8431	2.360	1524.2	3738.	45.48	0.315
4000.	2.524	34.909	5.63	2.1754	27.8553	45.8522	2.451	1527.4	3933.	46.05	0.374
4200.	2.493	34.905	5.62	2.1219	27.8548	45.8591	2.544	1530.8	4128.	46.77	0.334
4400.	2.486	34.902	5.62	2.0912	27.8527	45.8623	2.639	1534.2	4323.	47.81	0.233
4500.	2.486	34.900	5.62	2.0795	27.8516	45.8635	2.687	1535.9	4420.	48.38	0.204
4600.	2.493	34.900	5.62	2.0737	27.8508	45.8643	2.736	1537.7	4517.	48.98	0.166
4700.	2.501	34.900	5.62	2.0690	27.8498	45.8649	2.785	1539.4	4614.	49.60	0.148
4800.	2.511	34.899	5.62	2.0659	27.8487	45.8652	2.835	1541.2	4711.	50.25	0.110
4900.	2.515	34.899	5.63	2.0575	27.8477	45.8661	2.885	1543.0	4808.	50.84	0.186
5000.	2.517	34.898	5.62	2.0465	27.8468	45.8675	2.936	1544.7	4905.	51.38	0.229
5100.	2.522	34.897	5.61	2.0391	27.8456	45.8682	2.988	1546.5	5002.	52.00	0.165

DISCOVERY 130 STATION 10594

P-DB	T-DEGC	SAL-PSU	DO-ML/L	POTEMP	SIGMAT	SIG4000	DYNHT-M	SNDV-M/S	DEPTH-M	SVANOM	BVFR-CY/HR
10.	20.234	36.048	5.38	20.2325	25.5003	41.9987	0.025	1523.4	10.	247.54	-9.990
20.	19.652	36.131	5.58	19.6487	25.7176	42.2489	0.049	1522.1	20.	227.20	8.302
30.	18.562	36.188	5.96	18.5562	26.0425	42.6389	0.070	1519.2	30.	196.65	10.145
50.	16.808	36.194	6.36	16.8000	26.4776	43.1855	0.104	1514.4	50.	155.96	8.304
75.	15.905	36.114	6.40	15.8928	26.6279	43.3986	0.141	1512.0	74.	142.43	4.384
100.	15.387	36.090	6.18	15.3713	26.7274	43.5348	0.175	1510.8	99.	133.71	3.575
125.	14.842	36.009	6.06	14.8230	26.7860	43.6339	0.208	1509.4	124.	128.82	2.764
150.	14.443	35.962	5.70	14.4202	26.8366	43.7145	0.240	1508.5	149.	124.68	2.572
200.	13.373	35.809	5.54	13.3448	26.9443	43.9043	0.300	1505.7	198.	115.60	2.665
250.	12.802	35.737	5.52	12.7676	27.0043	44.0098	0.356	1504.5	248.	111.06	2.007
300.	12.344	35.681	5.48	12.3036	27.0519	44.0947	0.411	1503.8	298.	107.65	1.799
400.	11.578	35.586	5.49	11.5267	27.1254	44.2321	0.516	1502.7	397.	102.74	1.601
500.	11.134	35.547	5.17	11.0711	27.1773	44.3226	0.617	1502.7	496.	99.88	1.356
600.	10.905	35.614	4.73	10.8297	27.2716	44.4361	0.714	1503.7	595.	93.13	1.767
700.	10.809	35.719	4.42	10.7212	27.3706	44.5431	0.804	1505.1	694.	86.03	1.797
800.	10.689	35.828	4.32	10.5885	27.4780	44.6602	0.886	1506.5	793.	78.10	1.873
900.	10.331	35.851	4.39	10.2197	27.5595	44.7722	0.961	1506.9	891.	72.17	1.682
1000.	10.439	35.967	4.35	10.3134	27.6310	44.8357	1.031	1509.1	990.	67.90	1.503
1200.	9.767	35.971	4.57	9.6215	27.7508	45.0144	1.157	1510.0	1188.	59.70	1.480
1400.	7.980	35.679	5.10	7.8266	27.8103	45.2328	1.271	1506.4	1385.	53.47	1.332
1600.	6.131	35.372	5.60	5.9757	27.8298	45.4254	1.373	1502.2	1582.	48.97	1.160
1800.	4.876	35.174	5.95	4.7160	27.8278	45.5475	1.468	1500.2	1779.	46.91	0.903
2000.	4.417	35.123	5.92	4.2431	27.8394	45.6075	1.561	1501.6	1976.	45.94	0.751
2200.	3.975	35.070	5.90	3.7878	27.8446	45.6601	1.652	1503.1	2172.	45.20	0.700
2400.	3.561	35.022	5.92	3.3607	27.8491	45.7096	1.742	1504.7	2369.	44.23	0.703
2600.	3.246	34.989	5.88	3.0332	27.8534	45.7489	1.829	1506.7	2565.	43.50	0.652
2800.	3.021	34.966	5.86	2.7905	27.8565	45.7787	1.916	1509.1	2761.	43.12	0.586
3000.	2.843	34.949	5.82	2.5951	27.8590	45.8030	2.002	1511.7	2957.	42.92	0.546
3200.	2.740	34.939	5.73	2.4740	27.8600	45.8183	2.088	1514.7	3152.	43.24	0.445
3400.	2.659	34.931	5.69	2.3736	27.8607	45.8312	2.175	1517.7	3348.	43.65	0.419
3600.	2.609	34.924	5.65	2.3031	27.8598	45.8395	2.263	1520.9	3543.	44.39	0.341
3800.	2.566	34.918	5.63	2.2383	27.8585	45.8468	2.353	1524.2	3738.	45.16	0.328
4000.	2.523	34.910	5.62	2.1737	27.8564	45.8534	2.444	1527.4	3933.	45.94	0.319
4200.	2.496	34.907	5.63	2.1241	27.8557	45.8598	2.536	1530.8	4128.	46.71	0.322
4400.	2.489	34.903	5.61	2.0943	27.8537	45.8629	2.631	1534.2	4323.	47.76	0.231
4500.	2.494	34.903	5.62	2.0869	27.8528	45.8638	2.679	1535.9	4420.	48.35	0.177
4600.	2.499	34.902	5.61	2.0793	27.8516	45.8645	2.727	1537.7	4517.	48.97	0.155
4700.	2.483	34.899	5.61	2.0515	27.8505	45.8674	2.777	1539.4	4614.	49.35	0.324
4800.	2.491	34.898	5.62	2.0472	27.8494	45.8677	2.826	1541.1	4711.	49.99	0.118
4900.	2.499	34.898	5.62	2.0418	27.8486	45.8686	2.877	1542.9	4808.	50.58	0.179
5000.	2.508	34.898	5.63	2.0383	27.8474	45.8689	2.928	1544.7	4905.	51.24	0.104

DISCOVERY 130 STATION 10595

P-DB	T-DEGC	SAL-PSU	DO-ML/L	POTEMP	SIGMAT	SIG4000	DYNHT-M	SNDV-M/S	DEPTH-M	SVANOM	BVFR-CY/HR
10.	20.198	36.093	5.31	20.1960	25.5445	42.0439	0.024	1523.4	10.	243.34	-9.990
20.	20.185	36.094	5.37	20.1809	25.5486	42.0494	0.049	1523.5	20.	243.31	1.208
30.	19.381	36.070	5.67	19.3751	25.7420	42.2915	0.072	1521.4	30.	225.23	7.837
50.	16.760	36.003	6.51	16.7522	26.3416	43.0575	0.112	1514.1	50.	168.81	9.754
75.	15.004	35.945	6.70	14.9922	26.7006	43.5367	0.149	1509.0	74.	135.44	6.754
100.	14.479	35.901	6.43	14.4644	26.7820	43.6567	0.182	1507.7	99.	128.39	3.239
125.	14.102	35.864	6.28	14.0839	26.8344	43.7377	0.213	1506.9	124.	124.08	2.610
150.	13.673	35.814	5.99	13.6516	26.8857	43.8219	0.244	1505.8	149.	119.84	2.589
200.	12.955	35.750	5.74	12.9277	26.9836	43.9756	0.302	1504.2	198.	111.73	2.534
250.	12.432	35.691	5.66	12.3981	27.0422	44.0764	0.356	1503.2	248.	107.31	1.980
300.	12.057	35.655	5.49	12.0173	27.0878	44.1528	0.409	1502.7	298.	104.11	1.755
400.	11.324	35.562	5.49	11.2731	27.1543	44.2811	0.511	1501.8	397.	99.84	1.527
500.	11.193	35.624	4.92	11.1292	27.2271	44.3658	0.609	1503.0	496.	95.26	1.552
600.	11.265	35.767	4.63	11.1884	27.3248	44.4575	0.701	1505.1	595.	88.53	1.769
700.	11.392	35.920	4.49	11.3006	27.4203	44.5428	0.786	1507.4	694.	82.14	1.741
800.	11.602	36.067	4.45	11.4962	27.4949	44.6012	0.866	1510.0	793.	77.87	1.527
900.	11.478	36.128	4.43	11.3587	27.5663	44.6840	0.941	1511.3	891.	73.43	1.547
1000.	11.152	36.145	4.40	11.0215	27.6399	44.7852	1.012	1511.8	990.	68.40	1.607
1200.	10.637	36.175	4.47	10.4839	27.7573	44.9479	1.141	1513.4	1188.	61.06	1.449
1400.	8.275	35.752	5.12	8.1179	27.8228	45.2188	1.256	1507.6	1385.	53.14	1.449
1600.	6.348	35.425	5.62	6.1897	27.8429	45.4178	1.357	1503.1	1582.	48.51	1.178
1800.	5.138	35.228	5.93	4.9742	27.8397	45.5336	1.452	1501.4	1779.	46.88	0.874
2000.	4.584	35.156	5.91	4.4069	27.8467	45.5983	1.545	1502.4	1976.	46.03	0.748
2200.	4.103	35.093	5.92	3.9138	27.8490	45.6518	1.636	1503.7	2172.	45.43	0.690
2400.	3.663	35.037	5.96	3.4607	27.8507	45.7010	1.727	1505.1	2369.	44.65	0.687
2600.	3.273	34.991	5.98	3.0577	27.8520	45.7451	1.815	1506.8	2565.	43.77	0.674
2800.	3.038	34.968	5.93	2.8071	27.8564	45.7769	1.902	1509.2	2761.	43.24	0.609
3000.	2.866	34.953	5.86	2.6179	27.8600	45.8016	1.988	1511.8	2957.	42.99	0.554
3200.	2.759	34.942	5.81	2.4920	27.8613	45.8177	2.074	1514.8	3152.	43.26	0.457
3400.	2.692	34.935	5.75	2.4053	27.8614	45.8286	2.161	1517.9	3348.	43.85	0.386
3600.	2.640	34.928	5.72	2.3328	27.8606	45.8372	2.250	1521.1	3543.	44.57	0.347
3800.	2.600	34.923	5.69	2.2714	27.8598	45.8447	2.339	1524.3	3738.	45.33	0.332
4000.	2.589	34.919	5.68	2.2379	27.8577	45.8481	2.431	1527.7	3933.	46.43	0.229
4200.	2.553	34.913	5.68	2.1801	27.8562	45.8545	2.525	1531.0	4128.	47.22	0.323
4400.	2.524	34.908	5.67	2.1283	27.8547	45.8604	2.620	1534.3	4323.	48.02	0.316
4500.	2.506	34.905	5.69	2.0985	27.8537	45.8635	2.668	1536.0	4420.	48.39	0.331
4600.	2.500	34.903	5.68	2.0804	27.8525	45.8653	2.717	1537.7	4517.	48.90	0.250
4700.	2.506	34.902	5.66	2.0735	27.8515	45.8660	2.766	1539.5	4614.	49.50	0.168
4800.	2.508	34.901	5.67	2.0635	27.8503	45.8670	2.816	1541.2	4711.	50.09	0.189
4900.	2.497	34.899	5.66	2.0405	27.8494	45.8695	2.866	1542.9	4808.	50.50	0.310

DISCOVERY 130 STATION 10596

P-DB	T-DEGC	SAL-PSU	DO-ML/L	POTEMP	SIGMAT	SIG4000	DYNHT-M	SNDV-M/S	DEPTH-M	SVANOM	BVFR-CY/HR
10.	20.359	36.185	5.52	20.3567	25.5713	42.0593	0.024	1523.9	10.	240.79	-9.990
20.	20.340	36.191	5.36	20.3363	25.5814	42.0709	0.048	1524.1	20.	240.20	1.825
30.	19.231	36.278	5.63	19.2261	25.9384	42.4922	0.071	1521.2	30.	206.47	10.653
50.	16.516	36.155	6.45	16.5077	26.5171	43.2451	0.107	1513.5	50.	152.17	9.572
75.	15.562	36.100	6.45	15.5499	26.6951	43.4892	0.142	1510.9	74.	136.02	4.764
100.	15.192	36.059	6.26	15.1762	26.7471	43.5685	0.176	1510.2	99.	131.81	2.597
125.	14.729	35.988	6.07	14.7104	26.7942	43.6504	0.208	1509.0	124.	128.02	2.483
150.	14.244	35.904	5.96	14.2222	26.8349	43.7281	0.240	1507.8	149.	124.79	2.320
200.	13.380	35.791	5.67	13.3519	26.9288	43.8887	0.300	1505.7	198.	117.07	2.489
250.	12.843	35.726	5.51	12.8084	26.9877	43.9905	0.357	1504.7	248.	112.64	1.988
300.	12.365	35.677	5.42	12.3244	27.0447	44.0861	0.413	1503.8	298.	108.34	1.958
400.	11.578	35.587	5.39	11.5264	27.1257	44.2324	0.518	1502.7	397.	102.71	1.674
500.	10.981	35.523	5.27	10.9183	27.1869	44.3446	0.618	1502.2	496.	98.84	1.473
600.	10.711	35.560	4.83	10.6364	27.2651	44.4461	0.715	1502.9	595.	93.52	1.621
700.	10.813	35.718	4.52	10.7249	27.3692	44.5415	0.805	1505.1	694.	86.16	1.819
800.	11.263	35.962	4.40	11.1590	27.4767	44.6114	0.887	1508.7	792.	79.07	1.802
900.	11.088	36.027	4.37	10.9720	27.5602	44.7100	0.963	1509.8	891.	73.36	1.672
1000.	10.755	36.032	4.36	10.6278	27.6247	44.8032	1.035	1510.3	990.	69.08	1.517
1200.	8.692	35.719	4.90	8.5551	27.7318	45.0886	1.163	1505.8	1188.	58.95	1.577
1400.	6.753	35.432	5.51	6.6123	27.7942	45.3284	1.272	1501.4	1385.	51.39	1.382
1600.	5.296	35.198	5.98	5.1508	27.7970	45.4729	1.372	1498.6	1582.	49.08	0.948
1800.	4.501	35.092	6.15	4.3461	27.8050	45.5621	1.468	1498.6	1779.	47.48	0.830
2000.	4.088	35.050	6.11	3.9186	27.8172	45.6186	1.563	1500.2	1976.	46.47	0.736
2200.	3.714	35.021	6.08	3.5313	27.8324	45.6743	1.654	1502.0	2172.	44.98	0.768
2400.	3.402	34.993	6.06	3.2041	27.8416	45.7183	1.743	1504.0	2369.	44.03	0.689
2600.	3.156	34.974	5.99	2.9431	27.8499	45.7548	1.830	1506.3	2565.	43.25	0.649
2800.	2.963	34.958	5.93	2.7332	27.8552	45.7833	1.916	1508.8	2761.	42.86	0.583
3000.	2.814	34.947	5.88	2.5672	27.8595	45.8064	2.002	1511.6	2957.	42.67	0.541
3200.	2.727	34.938	5.81	2.4615	27.8603	45.8199	2.088	1514.6	3152.	43.12	0.417
3400.	2.661	34.930	5.78	2.3755	27.8603	45.8306	2.174	1517.8	3348.	43.71	0.382
3600.	2.623	34.925	5.74	2.3161	27.8590	45.8374	2.263	1521.0	3543.	44.57	0.308
3800.	2.585	34.918	5.69	2.2568	27.8574	45.8439	2.353	1524.3	3738.	45.41	0.310
4000.	2.556	34.914	5.68	2.2057	27.8568	45.8505	2.444	1527.6	3933.	46.21	0.319
4200.	2.528	34.909	5.69	2.1560	27.8548	45.8557	2.537	1530.9	4128.	47.10	0.290
4400.	2.503	34.904	5.69	2.1077	27.8531	45.8610	2.632	1534.2	4322.	47.95	0.300
4500.	2.497	34.902	5.68	2.0893	27.8521	45.8630	2.681	1535.9	4420.	48.43	0.261
4600.	2.497	34.901	5.68	2.0775	27.8511	45.8642	2.729	1537.7	4517.	48.99	0.213
4700.	2.498	34.900	5.69	2.0662	27.8501	45.8654	2.779	1539.4	4614.	49.54	0.210
4800.	2.504	34.899	5.70	2.0593	27.8489	45.8660	2.828	1541.2	4711.	50.17	0.149
4900.	2.514	34.899	5.69	2.0565	27.8478	45.8664	2.879	1543.0	4808.	50.82	0.116
5000.	2.524	34.898	5.69	2.0538	27.8467	45.8667	2.930	1544.7	4905.	51.48	0.110
5100.	2.536	34.898	5.71	2.0528	27.8454	45.8666	2.982	1546.5	5002.	52.17	-0.032
5200.	2.549	34.898	5.71	2.0523	27.8441	45.8666	3.034	1548.3	5099.	52.88	-0.048

DISCOVERY 130 STATION 10597

P-DB	T-DEGC	SAL-PSU	DO-ML/L	POTEMP	SIGMAT	SIG4000	DYNHT-M	SNDV-M/S	DEPTH-M	SVANOM	BVFR-CY/HR
10.	19.784	35.926	5.31	19.7821	25.5266	42.0543	0.024	1522.1	10.	245.03	-9.990
20.	19.255	35.918	5.49	19.2518	25.6581	42.2183	0.049	1520.7	20.	232.81	6.478
30.	18.435	35.920	5.76	18.4299	25.8694	42.4800	0.071	1518.6	30.	213.10	8.174
50.	15.982	35.966	6.60	15.9738	26.4964	43.2644	0.107	1511.7	50.	154.12	9.969
75.	14.952	35.948	6.58	14.9410	26.7148	43.5543	0.143	1508.9	74.	134.08	5.276
100.	14.426	35.904	6.30	14.4108	26.7959	43.6743	0.175	1507.6	99.	127.07	3.231
125.	14.263	35.890	6.17	14.2448	26.8201	43.7114	0.207	1507.4	124.	125.47	1.790
150.	13.957	35.842	6.13	13.9349	26.8483	43.7636	0.238	1506.8	149.	123.45	1.938
200.	13.012	35.738	5.60	12.9840	26.9634	43.9516	0.297	1504.4	198.	113.66	2.747
250.	12.558	35.698	5.33	12.5245	27.0231	44.0476	0.353	1503.7	248.	109.18	1.993
300.	12.112	35.648	5.40	12.0725	27.0718	44.1328	0.407	1502.9	298.	105.65	1.818
400.	11.541	35.583	5.43	11.4895	27.1296	44.2392	0.511	1502.5	397.	102.32	1.423
500.	11.077	35.537	5.26	11.0136	27.1807	44.3306	0.612	1502.5	496.	99.51	1.348
600.	10.827	35.557	4.96	10.7516	27.2417	44.4139	0.710	1503.3	595.	95.84	1.443
700.	11.058	35.762	4.54	10.9683	27.3589	44.5111	0.802	1506.0	694.	87.45	1.915
800.	11.298	35.969	4.41	11.1940	27.4757	44.6076	0.885	1508.8	792.	79.22	1.908
900.	11.246	36.067	4.39	11.1284	27.5622	44.6989	0.961	1510.4	891.	73.44	1.681
1000.	10.817	36.050	4.41	10.6890	27.6274	44.8006	1.032	1510.5	990.	68.95	1.543
1200.	9.826	35.975	4.64	9.6793	27.7439	45.0027	1.160	1510.2	1188.	60.48	1.500
1400.	7.681	35.622	5.27	7.5300	27.8110	45.2602	1.273	1505.2	1385.	52.54	1.432
1600.	5.861	35.322	5.81	5.7082	27.8256	45.4468	1.374	1501.0	1582.	48.42	1.123
1800.	4.905	35.182	5.99	4.7438	27.8307	45.5475	1.469	1500.4	1779.	46.76	0.860
2000.	4.126	35.069	6.13	3.9561	27.8280	45.6251	1.561	1500.4	1975.	45.66	0.758
2200.	3.701	35.026	6.07	3.5178	27.8377	45.6807	1.652	1501.9	2172.	44.44	0.740
2400.	3.374	34.987	6.05	3.1767	27.8395	45.7190	1.741	1503.8	2368.	44.06	0.611
2600.	3.116	34.972	6.02	2.9037	27.8520	45.7608	1.827	1506.1	2565.	42.83	0.706
2800.	2.923	34.956	5.94	2.6946	27.8572	45.7892	1.912	1508.7	2761.	42.42	0.583
3000.	2.814	34.937	5.88	2.5669	27.8517	45.7989	1.998	1511.6	2956.	43.37	0.309
3200.	2.731	34.933	5.82	2.4652	27.8560	45.8153	2.085	1514.6	3152.	43.53	0.472
3400.	2.667	34.931	5.77	2.3808	27.8600	45.8298	2.172	1517.8	3347.	43.77	0.453
3600.	2.620	34.925	5.73	2.3139	27.8593	45.8379	2.261	1521.0	3543.	44.53	0.337
3800.	2.585	34.918	5.72	2.2569	27.8574	45.8438	2.351	1524.3	3738.	45.42	0.296
4000.	2.552	34.914	5.72	2.2021	27.8567	45.8508	2.442	1527.6	3933.	46.18	0.328
4200.	2.520	34.908	5.72	2.1476	27.8550	45.8567	2.535	1530.9	4128.	47.00	0.309
4400.	2.501	34.904	5.71	2.1052	27.8530	45.8612	2.630	1534.2	4322.	47.93	0.275
4500.	2.499	34.903	5.72	2.0915	27.8523	45.8629	2.678	1536.0	4419.	48.44	0.244
4600.	2.502	34.901	5.71	2.0819	27.8511	45.8637	2.727	1537.7	4517.	49.04	0.174
4700.	2.499	34.900	5.72	2.0667	27.8501	45.8654	2.776	1539.4	4614.	49.55	0.248
4800.	2.510	34.900	5.72	2.0654	27.8488	45.8654	2.826	1541.2	4711.	50.24	-0.028
4900.	2.515	34.899	5.72	2.0576	27.8477	45.8661	2.877	1543.0	4808.	50.84	0.170
5000.	2.523	34.898	5.72	2.0529	27.8467	45.8668	2.928	1544.7	4905.	51.47	0.154
5100.	2.536	34.898	5.73	2.0523	27.8453	45.8666	2.980	1546.5	5002.	52.18	-0.064
5200.	2.549	34.898	5.72	2.0517	27.8443	45.8668	3.032	1548.3	5099.	52.85	0.089
5300.	2.561	34.897	5.72	2.0509	27.8426	45.8664	3.086	1550.1	5196.	53.59	-0.109
5400.	2.575	34.897	5.74	2.0507	27.8413	45.8663	3.140	1551.9	5293.	54.31	-0.057
5500.	2.588	34.898	5.72	2.0503	27.8408	45.8670	3.194	1553.7	5389.	54.95	0.153
5600.	2.602	34.898	5.72	2.0503	27.8395	45.8670	3.249	1555.5	5486.	55.67	-0.050

DISCOVERY 130 STATION 10598

P-DB	T-DEGC	SAL-PSU	DO-ML/L	POTEMP	SIGMAT	SIG4000	DYNHT-M	SNDV-M/S	DEPTH-M	SVANOM	BVFR-CY/HR
10.	20.339	36.121	5.51	20.3370	25.5280	42.0187	0.024	1523.8	10.	244.90	-9.990
20.	20.238	36.115	5.50	20.2347	25.5500	42.0472	0.049	1523.7	20.	243.18	2.663
30.	20.119	36.109	5.54	20.1135	25.5779	42.0828	0.073	1523.5	30.	240.88	2.995
50.	17.566	36.015	6.43	17.5573	26.1577	42.8215	0.117	1516.5	50.	186.34	9.592
75.	15.430	35.965	6.80	15.4181	26.6212	43.4276	0.157	1510.4	74.	143.01	7.675
100.	14.868	35.929	6.70	14.8532	26.7183	43.5652	0.191	1509.0	99.	134.49	3.532
125.	14.325	35.883	6.45	14.3069	26.8014	43.6885	0.224	1507.6	124.	127.25	3.276
150.	14.051	35.858	6.09	14.0295	26.8400	43.7481	0.255	1507.1	149.	124.26	2.249
200.	13.013	35.762	5.79	12.9848	26.9818	43.9692	0.314	1504.4	198.	111.93	3.041
250.	12.311	35.676	5.71	12.2777	27.0545	44.0981	0.369	1502.8	248.	106.10	2.205
300.	11.941	35.639	5.50	11.9017	27.0974	44.1716	0.421	1502.3	298.	103.14	1.706
400.	11.456	35.626	5.02	11.4045	27.1791	44.2941	0.521	1502.3	397.	97.60	1.661
500.	11.230	35.668	4.79	11.1659	27.2542	44.3889	0.617	1503.2	496.	92.75	1.584
600.	11.171	35.768	4.62	11.0943	27.3429	44.4828	0.706	1504.8	595.	86.74	1.699
700.	11.823	36.046	4.50	11.7293	27.4367	44.5234	0.790	1509.0	694.	81.15	1.665
800.	12.008	36.181	4.50	11.8995	27.5058	44.5790	0.869	1511.5	792.	77.43	1.475
900.	11.722	36.183	4.43	11.6010	27.5627	44.6608	0.945	1512.2	891.	74.16	1.423
1000.	11.427	36.217	4.42	11.2941	27.6453	44.7680	1.017	1512.8	990.	68.40	1.687
1200.	10.720	36.190	4.49	10.5654	27.7546	44.9385	1.146	1513.7	1188.	61.50	1.428
1400.	8.483	35.781	5.05	8.3244	27.8134	45.1914	1.262	1508.4	1385.	54.59	1.392
1600.	6.414	35.429	5.56	6.2546	27.8374	45.4064	1.365	1503.4	1582.	49.24	1.233
1800.	5.243	35.240	5.89	5.0778	27.8367	45.5207	1.461	1501.8	1779.	47.57	0.881
2000.	4.451	35.117	6.05	4.2762	27.8305	45.5957	1.556	1501.8	1976.	46.91	0.726
2200.	3.938	35.059	6.06	3.7514	27.8396	45.6590	1.648	1502.9	2172.	45.46	0.780
2400.	3.558	35.019	6.01	3.3577	27.8465	45.7074	1.738	1504.7	2368.	44.45	0.707
2600.	3.231	34.985	6.01	3.0168	27.8517	45.7490	1.826	1506.6	2565.	43.54	0.674
2800.	2.995	34.962	5.99	2.7653	27.8554	45.7802	1.913	1509.0	2761.	43.05	0.601
3000.	2.866	34.951	5.92	2.6176	27.8583	45.8001	1.999	1511.8	2956.	43.14	0.498
3200.	2.748	34.941	5.85	2.4820	27.8610	45.8184	2.085	1514.7	3152.	43.22	0.491
3400.	2.695	34.934	5.80	2.4088	27.8604	45.8273	2.172	1517.9	3348.	43.96	0.347
3600.	2.621	34.926	5.76	2.3145	27.8604	45.8389	2.260	1521.0	3543.	44.43	0.405
3800.	2.580	34.919	5.73	2.2523	27.8579	45.8448	2.350	1524.2	3738.	45.33	0.295
4000.	2.549	34.914	5.73	2.1989	27.8568	45.8512	2.442	1527.5	3933.	46.14	0.314
4200.	2.511	34.908	5.72	2.1395	27.8553	45.8578	2.535	1530.8	4128.	46.90	0.326
4400.	2.487	34.903	5.72	2.0918	27.8536	45.8631	2.629	1534.2	4322.	47.74	0.299
4500.	2.486	34.902	5.73	2.0791	27.8526	45.8645	2.677	1535.9	4420.	48.28	0.220
4600.	2.487	34.900	5.73	2.0676	27.8516	45.8656	2.726	1537.6	4517.	48.84	0.205
4700.	2.494	34.900	5.73	2.0624	27.8504	45.8662	2.775	1539.4	4614.	49.47	0.135
4800.	2.504	34.899	5.73	2.0600	27.8492	45.8663	2.825	1541.2	4711.	50.14	0.080
4900.	2.515	34.899	5.73	2.0579	27.8481	45.8665	2.875	1543.0	4808.	50.81	0.080
5000.	2.526	34.899	5.74	2.0553	27.8471	45.8669	2.926	1544.7	4905.	51.46	0.128
5100.	2.525	34.898	5.75	2.0422	27.8460	45.8683	2.978	1546.5	5002.	52.00	0.233

DISCOVERY 130 STATION 10599

P-DB	T-DEGC	SAL-PSU	DO-ML/L	POTEMP	SIGMAT	SIG4000	DYNHT-M	SNDV-M/S	DEPTH-M	SVANOM	BVFR-CY/HR
10.	20.465	36.102	5.10	20.4633	25.4797	41.9635	0.025	1524.1	10.	249.50	-9.990
20.	20.355	36.106	5.14	20.3516	25.5123	42.0029	0.050	1524.0	20.	246.76	3.236
30.	19.730	36.133	5.42	19.7244	25.6989	42.2262	0.074	1522.5	30.	229.33	7.698
50.	17.037	36.034	6.35	17.0289	26.2995	42.9967	0.115	1514.9	50.	172.83	9.760
75.	15.563	35.987	6.51	15.5509	26.6083	43.4052	0.154	1510.8	74.	144.24	6.266
100.	14.659	35.941	6.29	14.6439	26.7738	43.6349	0.187	1508.3	99.	129.20	4.601
125.	14.320	35.923	5.94	14.3012	26.8330	43.7195	0.219	1507.6	124.	124.26	2.769
150.	13.824	35.872	5.70	13.8026	26.8991	43.8230	0.250	1506.4	149.	118.61	2.931
200.	12.842	35.764	5.50	12.8147	27.0173	44.0172	0.306	1503.9	198.	108.52	2.784
250.	12.175	35.678	5.45	12.1416	27.0823	44.1360	0.359	1502.3	248.	103.41	2.090
300.	11.779	35.630	5.38	11.7395	27.1217	44.2085	0.409	1501.8	298.	100.76	1.643
400.	11.302	35.591	5.17	11.2513	27.1806	44.3084	0.508	1501.7	397.	97.34	1.428
500.	11.157	35.651	4.81	11.0933	27.2547	44.3954	0.603	1503.0	496.	92.64	1.565
600.	11.142	35.784	4.60	11.0652	27.3605	44.5022	0.693	1504.7	595.	85.06	1.847
700.	11.395	35.977	4.51	11.3033	27.4637	44.5845	0.774	1507.5	694.	78.07	1.796
800.	11.282	36.052	4.47	11.1781	27.5438	44.6746	0.850	1508.8	792.	72.83	1.628
900.	10.973	36.058	4.43	10.8570	27.6056	44.7633	0.920	1509.4	891.	68.94	1.478
1000.	10.680	36.069	4.46	10.5533	27.6670	44.8503	0.987	1510.1	990.	65.01	1.477
1200.	10.294	36.117	4.56	10.1434	27.7736	44.9921	1.110	1512.1	1188.	58.78	1.373
1400.	7.839	35.670	5.27	7.6865	27.8246	45.2592	1.222	1505.8	1385.	51.74	1.387
1600.	5.785	35.295	5.86	5.6336	27.8139	45.4426	1.322	1500.7	1582.	49.24	0.995
1800.	4.815	35.158	6.06	4.6549	27.8223	45.5481	1.417	1500.0	1779.	47.17	0.895
2000.	4.318	35.091	6.09	4.1457	27.8247	45.6031	1.511	1501.2	1976.	46.83	0.670
2200.	3.819	35.039	6.12	3.6339	27.8360	45.6673	1.603	1502.4	2172.	45.18	0.795
2400.	3.455	35.003	6.08	3.2569	27.8441	45.7153	1.692	1504.2	2369.	44.10	0.709
2600.	3.185	34.981	6.03	2.9713	27.8529	45.7548	1.779	1506.4	2565.	43.16	0.673
2800.	3.002	34.954	6.01	2.7715	27.8484	45.7728	1.866	1509.0	2761.	43.73	0.423
3000.	2.874	34.950	5.93	2.6258	27.8569	45.7979	1.953	1511.9	2957.	43.32	0.577
3200.	2.732	34.936	5.87	2.4658	27.8582	45.8174	2.039	1514.6	3152.	43.34	0.501
3400.	2.667	34.931	5.83	2.3807	27.8601	45.8299	2.126	1517.8	3348.	43.77	0.416
3600.	2.614	34.924	5.78	2.3077	27.8593	45.8385	2.214	1521.0	3543.	44.47	0.349
3800.	2.577	34.918	5.76	2.2488	27.8576	45.8449	2.304	1524.2	3738.	45.32	0.306
4000.	2.539	34.913	5.74	2.1898	27.8570	45.8523	2.396	1527.5	3933.	46.04	0.338
4200.	2.498	34.906	5.74	2.1267	27.8554	45.8592	2.488	1530.8	4128.	46.76	0.334
4400.	2.474	34.901	5.75	2.0798	27.8534	45.8641	2.583	1534.1	4322.	47.64	0.288
4500.	2.473	34.900	5.74	2.0667	27.8526	45.8657	2.631	1535.8	4420.	48.16	0.233
4600.	2.475	34.899	5.75	2.0560	27.8515	45.8667	2.679	1537.6	4517.	48.73	0.195
4700.	2.484	34.899	5.74	2.0529	27.8503	45.8669	2.728	1539.4	4614.	49.39	0.087
4800.	2.492	34.898	5.74	2.0477	27.8493	45.8676	2.778	1541.1	4711.	50.00	0.155
4900.	2.503	34.898	5.75	2.0457	27.8483	45.8679	2.828	1542.9	4808.	50.66	0.103
5000.	2.513	34.897	5.78	2.0435	27.8468	45.8678	2.879	1544.7	4905.	51.35	0.