

CTD DATA

FROM THE NORTHEAST ATLANTIC OCEAN

40° - 48°N, 12° - 21°W

COLLECTED ON

RRS DISCOVERY CRUISE 132

IN FEBRUARY 1983

BY

R. T. POLLARD

REPORT NO. 192

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INSTITUTE OF OCEANOGRAPHIC SCIENCES

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WORMLEY

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ABSTRACT

This report presents CTD data collected on RRS <u>Discovery</u> cruise 132 (27 January - 20 February, 1983) in an area northeast of the Azores bounded by 40.5° N, 48.5° N, 20.5° W and 12° W. 29 stations were occupied, mostly to 1000 or 1200 dbar. Calibration and data editing techniques are described in detail. The data are presented as potential temperature/salinity curves, profile plots of temperature, salinity, oxygen and density against pressure, and listings at standard levels of basic and derived values.

DATA COLLECTION

RRS <u>Discovery</u> Cruise 132 (Pollard et al. 1983) took place from 27 January to 20 February 1983, and had as some of its objectives

- (1) To locate and survey possible upper ocean fronts in the northeast Atlantic Ocean.
- (2) To examine the horizontal and vertical structure of the winter mixed layer over ten degrees of latitude.
- (3) To examine spatial variations of pressure, temperature, salinity, and oxygen on those thermocline density surfaces which may outcrop and ventilate to the north or east.

Two Neil Brown Instrument Systems (N.B.I.S.) Conductivity-Temperature-Depth (CTD) profilers were used in support of these objectives. These were referred to as 'shallow' and 'deep' CTDs as they used 1500 and 6000 dbar pressure sensors respectively. The shallow CTD was only used in lowered mode on Station 10620 reported here. Following this calibration cast, it was transferred into the I.O.S. SeaSoar (Pollard et al, 1985) for the rest of the cruise. All further shiplowered CTD work was done with the deep CTD. The CTD casts (Table 1 and Fig. 1) fall into three groups.

- Casts 10621, 24, 25, 48 and 49 were primarily calibration casts, taken before or after SeaSoar runs and used to cross-calibrate the shallow CTD. This was necessary because bottle samples and thermometer readings cannot be taken during SeaSoar towing.
- Casts 10626-38 and 10650 comprise a north south section along $20^{\circ}\text{W}\pm1^{\circ}$ from 47.5°N to 40.5°N .
- Casts 10639-47 comprise an east-west section along 41.5-42 $^{\circ}$ N from 20 $^{\circ}$ W to 12 $^{\circ}$ W.

Because the scientific objectives were restricted to the upper ocean, most CTD casts went no deeper than 1000 or 1200 dbar. While that saved time, it might with hindsight have been preferable to take all casts to at least 1500 dbar, or better 2000 dbar, in order to span the Mediterranean water across which there may be significant geostrophic shears. Late in the cruise, casts 10648 and 49 were taken to the bottom, giving valuable deep calibrations.

CALIBRATION

CTD data were logged in the first instance onto a PDP11/34 computer, as described by Collins et al. (1983). After sampling (CTDSAMP) and averaging to 1-second raw values (CTDAVE), the data were calibrated (CTDCAL) using approximate calibration constants (Table 2) and archived to magnetic tape. The values output by CTDCAL are subscripted CAL in Table 2. Every fifth calibrated value was listed so that final calibration constants could be determined as follows.

Down casts (presented in this report) were generally completed without stopping. All calibration samples were taken with a General Oceanics Rosette Sampler stopping typically at 200 m intervals during the upcasts. Some bottles carried reversing thermometers. The number of calibration values for salinity, temperature and oxygen on each cast are shown in Table 1. Pressure was generally checked with a single unprotected/protected thermometer pair at the deepest calibration depth.

CTD sampling has to be stopped while the multisampler is fired to avoid noise spikes in the data. The 5-second listing of calibrated values is scanned for the consequent time gaps at the calibration depths. The CTD values of pressure, temperature and salinity immediately prior to the time gap are taken as the values to be compared against bottle and thermometer calibration values. Usually they are very stable over tens of seconds prior to firing the multisampler. If they vary or drift significantly because the CTD was close to an interface or in a marked gradient, the calibration point can be flagged as suspect.

A slightly different procedure has to be adopted for oxygen, because the Beckman oxygen sensor requires a flow of water past it to avoid possible ion depletion in the vicinity of the membrane. Accordingly, the 5-second listing is scanned back to the point where the winch was stopped (apparent from the pressure values) and the oxygen value read from about that point.

For the shallow CTD, only one calibration cast (10620) was available. This was used to improve the calibration values (C1 to C6, Table 2) applied to

the CTD while in the SeaSoar. Final calibration of those values was done by comparison with T/S curves and oxygen profiles collected on deep CTD casts, and is described by Pollard et al (1985). Here we concentrate on the deep CTD calibrations. The changes made to the calibrated values (CAL) to give final corrected (CORR) values are shown in Table 2, and discussed individually below. The statistics of the CORRected values are given in Table 3.

Pressure

The additive constant C2 is determined from the deck offset, or surface value. It was altered from 12 dbar (C1*C2) to 5 dbar after cast 10621.

The default calibration for C1 (0.1 dbar/count, 6553 dbar full scale) was used throughout. If reversing thermometers were used as standard, the 26 sample values obtained would suggest that CTD pressures should have been corrected by -2.6 ± 2.5 dbar (Table 3 and Fig. 2). No correction was made.

The shallow CTD had a deck offset of just over 1 dbar, and the default calibration (0.025 dbar/count, 1638 dbar full scale) appeared to be correct (Table 3).

Temperature

The laboratory calibration of the deep CTD (TCAL $^{\circ}$ C=0.035+0.0005005 T_{RAW}) was used throughout the cruise. The raw CTD values were speeded up with a 0.25 second time constant to match the conductivity time constant. The value used minimised hysteresis loops between down and up casts on T/S diagrams.

Analysis of 32 reversing thermometer calibrations suggested that the CTD was reading too low by 16.9±8.4 mK (Table 2, C7; Table 3 and Fig. 3). Both CTD and reversing themometer laboratory claibrations had been referred back to absolute standards, but it was thought at the time (Saunders, 1985) that the CTD calibrations might be different if the entire instrument could be immersed in the temperature bath, rather than just the sensor assembly. Accordingly, the CTD temperatures were corrected by adding 17 mK. (The same correction was, somewhat arbitrarily, made to the shallow CTD cast 10620, as three reversing thermometers had given offsets of 15, 20 and 8 mK).

Conductivity/Salinity

The conductivity ratio (C5, Table 2) for the first deep CTD cast (10621) was taken as the best value from the previous cruise (1.0003). Onboard analysis of the 6 rosette samples (with a Guildline bench salinometer) suggested an improved value of 1.0002, which was inadvertently entered as 1.002 for casts 10624, 25 and 26. An improved value of 1.00013 was then calculated, and used for the rest of the cruise, except that the value 1.002 was again inadvertently entered off an old listing for casts 10648 and 49.

Once CTDCAL has been run (using the 1980 equations of state), it is our policy not to recalculate salinity after correcting temperature and conductivity, but to correct salinity directly. Although neither pressure nor temperature corrections had been made to the conductivity ratio, there was no evidence that the error in salinity varied with pressure or temperature down to 1000 dbar and too few samples to establish a pressure variation below that (Fig. 4). The mean salinity offset for casts 10624, 25, 26, 48 and 49 (all with a conductivity ratio of 1.002) was 0.076 psu, the offset for cast 10621 was 0.008 psu, and for all remaining casts was zero (Table 2). Thus the errors in conductivity ratio were corrected by applying constant salinity offsets, after which Fig. 4 and Table 3 give a standard deviation of less than 0.003 psu over 129 samples (ignoring 5 obvious outliers).

A final calibration check is provided by comparing the θ/S curves for the two deep casts (10648 and 49) with the line found by Saunders (1984) to fit all deep casts north east of the Azores (Fig. 5). By comparison with Saunders' curve, our salinities are 0.002-0.004 psu too high.

For the shallow CTD, a final salinity correction of $0.035~\mathrm{psu}$ was applied (Table 2) based on 7 samples (Table 3).

0xygen

Calibration of oxygen is a persistent problem, which we cannot claim to have solved satisfactorily. The problems arise from slow time constants in both the oxygen current and the effective membrane temperature. Saunders (1983) has made use of a temperature dependent time constant applied to the oxygen current (0_{RAW}) , Table 2). We have tried an alternative approach of minimising

hysteresis loops by adjusting the temperature T_L (Table 2). Brown (1980) suggests the membrane temperature be approximated by $0.5*(T_0+T_{CTD})$ where T_{CTD} is the unlagged CTD temperature and T_0 the oxygen cell temperature recorded in the data stream. We have found that T_0 approximates a heavily lagged true temperature (T_{CTD}) . It is therefore convenient to ignore T_0 altogether (thereby avoiding the need to edit an extra variable) and use a lagged T_{CTD} . Trial and error suggests 5 minutes as the best time constant with which to lag T_{CTD} .

The exponential values for T and P (-0.036 and -0.000155, Table 2) are taken from Brown (1980).

The first cast with the deep CTD (10621) suggested that a multiplicative adjustment to C6, reducing it by 0.885 from 0.00165 to 0.00146, would be sufficient to correct the oxygen values to the calibrated samples. For the shallow CTD the corrected value was found to be 0.00148. The value 0.00146 should, therefore, have been applied to all casts with the deep CTD. At a late stage of the processing it was found that the value 0.00148 had inadvertently been applied to casts 10639-47. Since the corresponding error in oxygen is less than 0.07 ml/1 the data have not been further corrected. From Table 3 it can be seen that the corrected oxygen values are unbiassed, with a standard deviation of less than 0.1 ml/1 over 111 samples, and nearly all values lie within 0.2 ml/1 of the true value (Fig. 6).

It must, however, be remembered that all calibrations were made on the upcasts, where it is the down casts which are plotted and listed in this report. Examples of down and up cast oxygen profiles are compared in Fig. 7. We note that

- (1) Down and up casts differ by up to 0.4 ml/l
- (2) Although the CTD was always soaked in the water for five minutes before starting the down cast, there is still a marked hysteresis in the top 400 dbar on cast 10621. This was the first cast of the cruise made with the deep CTD, and shows how long the Beckman oxygen sensor takes to acclimatize.
- (3) Drift and jumps in the oxygen values can frequently be seen at each calibration level where hauling ceased.

(4) The largest persistent differences between down and up casts occur between 1000 and 2000 dbar on the five casts which went deeper than 1200 dbar (10621, 25, 39, 48 and 49).

In summary, the down casts may be absolutely in error by 0.3-0.4~m1/1. Relative errors between casts at similar depths should be smaller.

EDITING

Cruise 132, in February 1983, was the first since RRS <u>Discovery</u>'s annual refit in October 1982. The midships winch had thus been unused for an entire winter, and a combination of winch, CTD and computer problems caused very noisy data, especially over certain depth ranges (Pollard et al., 1983). Despite much effort, the problems were not identified and cured until after the cruise, so all data have had to be extensively edited. Two primary causes of noise were eventually identified.

A battery pack had been installed inside the CTD to keep it powered up while the multisampler was fired at calibration points. Without this modification, the oxygen sensor can take five minutes or more to recover on each occasion. Unfortunately the batteries themselves appear to go open circuit internally when subjected to considerable vibration. This occurred particularly in the top 150 dbar, and at other depths when cable strum built up, which depended on the position of the cable laying guide across the main drum. Irrecoverably noisy data resulted which has had to be deleted, giving rise to the many gaps in the profiles, extending across up to 50 dbar.

A subtle computer fault caused the most significant bit of each eight bit byte to be occasionally dropped as it was read in. This affected the conductivity sensor in particular, causing errors of 128 in a single raw value. After averaging over one second, or about 16 samples, the error is reduced to an integer multiple of 8 raw conductivity units, equivalent to about 0.008 psu in salinity. The error could be spotted as quantised spikes in the salinity profiles, most obvious in the deep casts near the end of the cruise. Laborious editing was required to remove such small offsets.

With the exception of the last cast, 10650, all casts were further processed on board RRS <u>Discovery</u>. The tapes of data archived after CTDCAL were read back into a second PDP11/34, where they were recalibrated and edited with a suite of interactive programs (Pollard, 1983). Cast 10650 was processed at IOS.

A standard editing program was used first to replace values outside a reasonable range for each variable by the absent data value. An interactive despiking program was then applied in an attempt to remove the many small spikes in the data. The despiking algorithm is as follows. After being given an initial good value and a maximum offset S for a variable, the computer searches forward, accepting each value which is less than S different from the previously accepted value (X). When a jump greater than S is found, the computer looks up to 15 values ahead for a value in the range X±S. If it finds one, all intermediate values are replaced by absent data values A. If it does not, X and the following 15 values are printed on the users terminal with options

- (a) to seek forwards until he finds the next acceptable value
- (b) to check 15 values backwards in case X is itself at fault.

Case (b) occurs when the data slip gradually (in steps of less than S) to a bad value, then recover suddenly. While all the data in this report have been edited with the above algorithm, it tends to be laborious, especially if S is chosen too small, and does not remove all spikes. It is not in general recommended.

To remove the computer caused small quantised spikes, a number of the casts were listed in full and scanned, identifying individual data cycles to be deleted. This too was laborious.

Most recently, a median checking subroutine has been developed, which is listed in Table 4. In this algorithm, five non-absent-data values are extracted, two before and two after the value X currently being checked, and the median M of the five values extracted by a sort. If X differs from M by more than a preset amount S, it is replaced by the absent data value. As the procedure searches forwards through the data, the two values which follow X

have not themselves been checked when they are used to calculate M. Thus X may be accepted on a first pass, but rejected on a second or even third pass if large following spikes have by then been deleted.

It is not difficult to identify cases where this algorithm will fail, but with careful choice of S it was found to work very well for a final editing pass through the data presented in this report.

DISPLAY

θ/S curves

The program listed in Table 5 was used to produce the θ /S curves on pages 37 to 41. Groups of casts have been overplotted (refer to Fig. 1 for their positions). Note how the Mediterranean water influence increases to the east and south. Note too the variations in 'mode' water (11° to 13°C). At a given temperature, there is a range of 0.050 psu in salinity.

Profile plots

Plots of temperature, salinity, oxygen and density (sigma t) against pressure (pages 42 to 98) were created by the program listed in Table 6.

Listings

Station lists were created using the GEXEC program given in Table 7. The program creates 10 dbar averages from the one-second data (PAVRGE), calculates derived variables (PEOS83), linearly interpolates to standard levels (PFETCH), calculates further derived variables (PEOS83), modifies the absent data values to fit the listing formats (PCALIB) and finally lists the data (PLSTDC).

ACK NOWLEDG EMENTS

These data were collected on Cruise 132 of RRS <u>Discovery</u>, with S.D. Mayl as Master. J. Moorey determined salinities and oxygens and corrected thermometers. J. Smithers calibrated and operated the CTDs. R.J.P. Burnham was in charge of the shipboard computers used to log and archive the data. D.S. Collins, T.C. Cotterall, K. Sherrocks, D. Holford and Miss F.J. Read assisted in the data reduction and preparation of plots.

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TABLE 1
CTD Station List

Station	Day Down No. Time		Lat. N	Long W	Maximum pressure	Calibration Levels		
No •	NO.	(GMT)			(dbar)	Sal	Оху	Temp
		001/	48 18.9	12 52.6	604	9	9	3
10620	29	2214 1809	46 16.9	14 08.5	2011	8	9	3
10621	30	1226	47 03.9	15 58.9	1000	9	8	2
10624	33	1334	46 49.0	18 08.1	2016	ģ	9	2
10625	35	2115	47 30.8	18 59.2	1007	ģ	ģ	2
10626	35	0213	46 55.7	19 08.0	1005	4	Ó	ī
10627	36	0657	46 19.9	19 15.2	1004	4	Ö	î
10628	36	1130	45 45.5	19 23.0	1201	4	4	1
10629	36	1552	45 26.8	19 24.3	1208	4	4	î
10630	36	1847	46 10.2	19 30.5	1210	3	3	î
10631	36 27	0010	44 36.7	19 38.9	1004	4	0	1
10632	37	0520	44 00.0	19 46.3	1210	4	Ö	1
10633	37 37	0943	43 24.8	19 53.5	1006	4	4	ī
10634		1409	42 50.4	20 02.5	1017	4	Ö	1
10635	37	1837	42 30.4	20 02.3	1013	4	4	î
10636	37	2241	41 40.8	20 16.0	1005	4	4	i
10637	37	1845	40.0	20 29.6	1005	3	4	ī
10638	38 39	1213	40 29.7	19 41.0	1514	4	4	ī
10639	39 40	1907	41 21.2	18 51.5	1213	6	6	ĩ
10640	40 41	0226	41 27.1	18 06.6	1200	6	ő	1
10641	41	0226	41 31.2	17 18.7	1209	6	6	ī
10642	41	1614	41 34.8	16 31.8	1208	6	6	1
10643	41	2255	41 39.9	15 43.6	1210	6	6	1
10644	41 42	2218	41 59.8	14 00.7	812	6	6	ĩ
10645	42 43	1043	42 14.9	12 59.8	1209	5	5	î
10646	43 43	1557	42 14.5	12 20.1	1208	6	6	1
10647 10648	43 44	2057	43 56.9	15 53.1	5081	7	7	3
	44 45	0253	44 17.7	16 08.0	4036	7	7	3
10649 10650	43 47	0007	40 59.1	20 25.4	1233	4	4	í

TABLE 2

		Initial calibration constants						Final corrections			
	Pressure		Temperature		Conductivity	Oxygen	Temp	Salinity	0xygen		
Cast(s)	C1	C2	С3	10 ³ *C4	10 ³ *c5	10 ³ *C6	С7	C8	С9		
10620	0.025	45	0.	0.5	1.0	1.65	+0.017	+0.035	0.906		
10621	0.1	120	0.034	0.5005	1.0003	1.65	+0.017	-0.008	0.885		
10624-26	0.1	50	0.034	0.5005	1.002	1.46	+0.017	-0.076	1.0		
10627-38	0.1	50	0.034	0.5005	1.00013	1.46	+0.017	0.0	1.0		
10639-47	0.1	50	0.034	0.5005	1.00013	1.48	+0.017	0.0	1.0		
10648-49	0.1	50	0.034	0.5005	1.002	1.46	+0.017	-0.076	1.0		
10650	0.1	50	0.034	0.5005	1.00013	1.46	+0.017	0.0	1.0		

$$\begin{split} & P_{CAL}(dbar) = C1*(P_{RAW}-C2) \\ & P_{CORR} = P_{CAL} \\ & T_{CAL}(^{O}C) = C3 + C4*T_{RAW} \\ & T_{CORR} = T_{CAL} + C7 \\ & C_{CAL} \ (mmho/cm^3) = C5*C_{RAW} \\ & S_{CORR} \ (psu) = S_{CAL} + C_8 \\ & O_{CAL} \ (m1/1) = C6* \ O_{RAW} * \ EXP(-0.036*T_L-0.000155 \ P_{CAL}) * O_{Saturated} \ (^T_{CAL}, ^S_{CAL}) \\ & where \ \overline{T}_{L} \ is \ T_{CAL} \ lagged \ with \ a \ 300 \ second \ time \ constant. \\ & O_{CORR} = C9 \times O_{CAL} \end{split}$$

TABLE 3
Calibration statistics
(Calibration sample - CORRected CTD)

		Shallow CTD (10620)						
	P	T	S	0	P	T	S	0
	dbar	mK	ppm	ml/1	dbar	mK	ppm	m1/1
no in sample	26	32	129	111	3	3	7	8
mean	-2.6	-0.1	0.3	-0.002	0.0	-2.7	-0.1	-0.029
standard deviation	2.5	8.4	2.8	0.087	1.0	6.0	2.7	0.192

TABLE 4(1)

Median Despiking Routine

```
G-EXEC PC73,900,6
SPU, RTP, RTP PUSRIO SKELETON
EXEC GSHFIL,, WB
MAKE SUMMO2PU
MAKE HISTO2PU
EXEC PLSTDC
CYCS,1,100
VARS,-
FIND WPRDI10620BW
EXEC PUSRIO
000
VARS,-
CYCS,,
OVARS,-
FCON, 0., 1., 0.01, 0.01, 0.01, 0.05, 0.01
SUBS
$$
       SELECT (RTP/SOURCE/PHDIAN:S)
FIND WPRDI10620BW
MAKE WPRDIIO620BW
EXEC PLSTDC
CYCS,1,100
VARS,-
FIND WPRDI10620BW
EXEC GSHFIL
02
MAKE HISTO2PU
STOP
```

TABLE 4(ii)

Hedian Despiking Routine

```
SUBROUTINE USERIO (INDISK, IODISK, INPOS, INVARS, IOFLDS, NSTART,
     &NSTOP, ICON, NIC, FCON, NFC, BUFA, BUFB, SUMMIN, SUMMIO, ABSIN, ABSIO,
     &INRECS, IORECS, INRECL, IORECL, NUMWRD, INFLDS, RETREC)
      DIMENSION INPOS(INVARS), ICON(19), FCON(19), BUFA(NUMWRD),
     &BUFB(NUMWRD), SUMMIN(NUMWRD), SUMMIO(NUMWRD), ABSIN(NUMWRD),
     &ABSIO(NUMWRD), RETREC(NUMWRD)
      COMMON/IO/IOCNSL, IOCSLE, IWKDSK, INTAPE, INCARD, IPRINT, IPUNCH,
     &INBIN, NOBUG, INFLIX, MNINDX, TEMPFL, IOTAPE, NHOLD, NDATST
C
      REAL A(5), B(5)
      IORECS=INRECS
C....LOOP FOR ALL VARIABLES
      DO 300 NNN=1, INVARS
C....FCON CONTAIN THE JUMP VALUES FOR THE INVARS
C....INPUT VARS. IF =0., NO CHECK TO BE DONE
      DIFF=FCON(NNN)
      IF(DIFF.EQ.O.)GOTO 300
C.....COUNTER FOR NO. OF ERRORS
      NSPIKE=0
      NVAR=INPOS(NNN)
C.....NUM IS NO. OF DATA CYCLES IN BUFA
      NUM=NUMWRD
C.....ISTART IS DATA CYCLE VALUE OF START OF BUFFER A
      ISTART=NSTART
C
C....POINTERS TO CURRENT DATA CYCLES & NEXT TWO
C....ARE NOW, NEXT, LAST
C....LBUF IS POSITION OF LAST+1
C.....A(5) IS ARRAY OF USORTED VARIABLES
C.....B(5) ARE SORTED VARIABLES
C....OUTPUT FILE=INPUT FILE
      IF (IODISK.NE.INDISK)STOP
     &'OUTPUT FILE MUST EQUAL INPUT'
C.....WRITE FIRST 5 VALUES OUT FOR CHECKING
      WRITE(IPRINT, 500)NVAR
 500 FORMAT(/' FIRST 5 VALUES FOR VARIABLE ',13,' ARE:'/
     δ'
         NCYC
                  VALUE')
C....ENTER DATA
      CALL INDATA(INDISK, NVAR, ISTART, NUM, BUFA,
     &RETREC, NDUM, INFLDS, INRECS, INRECL)
C.....FIND 5 VALUES
      JJ=0
      DO 20 J=1, NUM
      IF(BUFA(J).EQ.ABSIN(NVAR)) GO TO 19
      JJ=JJ+1
      A(JJ)=BUFA(J)
      NN=ISTART+J-1
      IF(JJ.EQ.3)NOW=NN
      IF(JJ.EQ.4)NEXT=NN
      IF(JJ.EQ.5)LAST=NN
```

```
IF(JJ.EQ.5)LBUF=J+1
C.....WRITE DATA CYCLE TO USER
      WRITE(IPRINT, 501)NN, A(JJ)
 501 FORMAT(1X, 16, F10.3)
      IF(JJ.EQ.5)GO TO 155
  19 CONTINUE
  20 CONTINUE
      STOP'CAN NOT FIND 5 GOOD VALUES IN FIRST BUFFER'
C.....SEARCH FOR NEXT NON ABSENT VALUE
  80 IF(LBUF.GT.NUM)CO TO 110
      DO 100 J=LBUF, NUM
      IF(BUFA(J).NE.ABSIN(NVAR))GO TO 150
 100 CONTINUE
C.....IF VALUE NOT IN CURRENT BUFFER GET MORE DATA
 110 ISTART=ISTART+NUM
      LBUF=1
C....TEST FOR END OF DATA
      IF(ISTART.GT.NSTOP)GO TO 200
      IF((ISTART+NUM-1).GT.NSTOP)NUM=NSTOP-ISTART+1
      CALL INDATA (INDISK, NVAR, ISTART, NUM, BUFA,
     &RETREC, NDUM, INFLDS, INRECS, INRECL)
      GO TO 80
C.....NEXT GOOD VALUE FOUND
150 LAST=ISTART+J-1
      LBUF=J+1
      A(5)=BUFA(J)
C.....SORT A INTO B
 155 CALL SORT(5, A, B)
C.....COMPARE A(3), (CURRENT VALUE) & B(3), (MEDIAN)
      C=(ABS(B(3)-\Lambda(3)))
      IF (C.GT.DIFF)GO TO 180
C.....CURRENT VALUE OK SO SLIDE ARRAY
      DO 160 K=1,4
      A(K)=\Lambda(K+1)
 160 CONTINUE
 170 NOW=NEXT
      NEXT=LAST
      GO TO 80
C.....CURRENT VALUE NOT OK
C....OVER WRITE WITH ABSENT DATA VALUE
 180 NSPIKE=NSPIKE+1
      CALL OTDATA(IODISK, NVAR, NOW, 1, ABSIN(NVAR),
     &RETREC, NDUM, IOFLDS, IORECS, IORECL)
C.....SLIDE SECOND HALF OF ARRAY
      \Lambda(3)=\Lambda(4)
      A(4)=\Lambda(5)
C.....CONTINUE AS FOR GOOD VALUE
      GO TO 170
C....END OF DATA REACHED, LIST LAST THREE
 200 WRITE(IPRINT, 502)
 502 FORMAT(' LAST THREE VALUES ARE')
```

```
WRITE(IPRINT, 503)A(2)
503 FORMAT(7X, F10.3)
      WRITE(IPRINT, 501)NOW, A(3)
      WRITE(IPRINT,501)NEXT,A(4)
WRITE(IPRINT,504)NSPIKE,NVAR
504 FORMAT(40X,15, 'VALUES REPLACED BY ABSENT DATA', & FOR VARIABLE ',13)
 300 CONTINUE
      RETURN
      END
      SUBROUTINE SORT(N,A,B)
      REAL A(N), B(N)
      DO 1 I=1,N
      B(I)=A(I)
      CONTINUE
 1
      DO 30 J=2,N
      NEND=N-J+1
      NSWOP=0
      DO 20 I=1, NEND
      IF(B(I).LE.B(I+I))GOTO 20
C.....WRONG ORDER, SWOP
      NSWOP=NSWOP+1
      C=B(I)
      B(I)=B(I+1)
      B(I+1)=C
 20
      CONTINUE
      IF(NSWOP.EQ.O)RETURN
 30
      CONTINUE
      RETURN
      END
```

TABLE 5

Production of θ /S Curves

```
*#FRN *=(ULIB)LIBRARY/GRAFIX,R;LIBRARY/GESTALT,R;LIBRARY/GEN,R;
*#PEXEC/2/OLIB,R;#OPS/WORMLEY/FLATBED/FJR1"15"
     DIMENSION FILE(10), XSAL(320), YPOT(320)
C..SET UP GRAPH
     CALL GRAPLT
C..ATTACH FILES
     DO 10 JJ=1,6
     IF(JJ.EQ.1) CALL FILBEG
    &(20,'RTP/22/WAV10620
                                                    ',1,320,1,2,IERR)
     IF(JJ.EQ.2) CALL FILBEG
    &(20, 'RTP/22/WAV10621
                                                    ',1,320,1,2,IERR)
     IF(JJ.EQ.3)CALL FILBEG
    &(20, 'RTP/22/WAV10624
                                                    ',1,320,1,2,IERR)
     IF(JJ.EQ.4)CALL FILBEG
    &(20, 'RTP/22/WAV10625
                                                    ',1,320,1,2,IERR)
     IF(JJ.EQ.5)CALL FILBEG
    &(20, 'RTP/22/WAV10626
                                                    ',1,320,1,2,IERR)
     IF(JJ.EQ.6)CALL FILBEG
    &(20, 'RTP/22/WAV10627
                                                    ',1,320,1,2,IERR)
     PRINT, IERR
C..READ DATA DEFINITION
     CALL QINITI(20)
     CALL QREADD
     CALL QLSTD(0)
     CALL QINFIL(FILE, NOFLDS, NORECS)
     CALL MKLENS(1.0)
     CALL MKSETS(2)
     CALL MARSEL(L)
     CALL POIBEG
     NSTART=1
     NSTOP=NORECS
     NLEN=320
     DO 20 L=NSTART, NSTOP, 320
C..READ IN DATA
     J=L
     IF((J+NLEN-1).GT.NSTOP)NLEN=NSTOP-J+1
     CALL QINDAT(5, J, NLEN, XSAL)
     CALL QINDAT(4,J,NLEN,YPOT)
C..PLOT DATA
     DO 30 N=1,NLEN,2
     IF(YPOT(N).EQ.YPOT(N-1))GOTO 30
     IF(YPOT(N).CT.YPOT(N-1))GOTO 30
     CALL POILA2(XSAL(N), YPOT(N))
  30 CONTINUE
  20 CONTINUE
     CALL POIEND
C..KEY LABEL
     IF(JJ.EQ.1)CALL LABEM('10620',5,1)
```

IF(JJ.EQ.2)CALL LABEM('10621',5,1)

```
IF(JJ.EQ.3)CALL LABEM('10624',5,1)
     IF(JJ.EQ.4)CALL LABEM('10625',5,1)
     IF(JJ.EQ.5)CALL LABEM('10626',5,1)
IF(JJ.EQ.6)CALL LABEM('10627',5,1)
  10 CONTINUE
     CALL GRAEND
     CALL GCLOSE
     STOP
     END
C
     SUBROUTINE GRAPLT
C..TO PLOT CTD DATA
     CALL SPOOLW(15, 'W', NDEV)
     CALL HP2648(6,5,NDEV)
     CALL SWIEXT
C..DEFINE PAGE SIZE
     CALL FNTANN(0,4,0)
     CALL FMTMRG(18.,15.,25.,10.)
     CALL FMTLAB(6)
     CALL FMTA(4,1)
     CALL DEFLA2(34.9,36.5,2.,15.)
C..DRAW GRID
     CALL CHLENS(2.5)
     CALL GRISEL(3,1,1)
     CALL AXILB2(0.2,2,1)
     CALL GRISEL(3,3,1)
     CALL AXILB2(2.0,2,2)
C..LABEL AXES
     CALL CHLENS(3.0)
     CALL LABEL(10, 'SALINITY',8)
     CALL LABEL(11, 'PSU', 3)
     CALL LABEL (20, 'POTENTIAL TEMPERATURE', 21)
     CALL LABEL(21,2H'C,2)
     CALL LABEL(1, 'POTENTIAL TEMPERATURE/SALINITY CURVES', 37)
     CALL LABEL(2, 'FOR DISCOVERY CRUISE 132',24)
C..TURN ON LABELS
     DO 40 MM=1.9
     M=MM
     CALL LABSWI(M,1)
  40 CONTINUE
     CALL CHLENS(2.5)
     RETURN
     END
```

TABLE 6

Production of Profile Plots

```
*#FRN*=(ULIB, NWARN)LIBRARY/GRAFOLD, R; LIBRARY/SPI, R; PEXEC/2/QLIB, R;
*##OPS/WORMLEY/FLATBED/TCC40"15"
      DIMENSION X(5100), Y(5100), FILE (20)
      SIZE=2.2
      SIZE1=4.0
      SIZE2=2.8
          This Fortran program, makes full use of the Honeywell plotting
C....libraries; Grafix & Spi.
C....Along with the 'qlib' library used to investigate G-exec
C....data files. All these routines are called in the first line
c....of the Coding.
          The aim of the program is to produce a plot for the 'down'
C....profile only, for pressure (y-axis) against temperature, salinity
C.... & oxygen (x-axis) all on the same graph, from a CTD station
c....not exceeding 2000m depth.
      CALL SPI
C....Attach data file.
      CALL ATTACH(11, 'RTP/22/WDI10640;',1,1,1STAT, )
      CALL QINITI(11)
      CALL QREADD
      CALL QLSTD(0)
      CALL QINFIL(FILE, NOFLDS, NORECS)
C
C....DRAW GRID
      CALL PICCLE
      CALL SHIFT2(45.,45.)
      CALL GRAFIX(120.,200.,0.)
      CALL DEFLA2(3.,15.,2000.,0.)
      CALL GRISEL(3,0,1)
C....Labelling the graph with the filename.
      CALL MOVTO2(43.5,214.)
      CALL CHASEL(SIZE1)
      CALL LABEL(0, FILE, 8)
C....Routine to annotate the x-axis when plotting
C....temperature against pressure (y-axis).
      CALL CHASEL(SIZE)
      CALL TL2BEG(1)
      DO 10 I=1,13
      NTEC = 1
      IF(MOD(I,2).EQ.0)NTEC=0
      CALL TICLA2(FLOAT(2+I),NTEC)
 10 CONTINUE
      CALL TL2END
```

```
C....Annotating and labelling the y-axis.
      CALL AXILB2(200.,2,2)
      CALL MOVTO2(-27.,180.)
CALL TEXT4('PRES',4,SIZE,90.,7)
C....Laballing temperature scale for x-axis.
      CALL MOVTO2(-39.,-7.0)
      CALL TEXT4('TEMP (DEG.C)',13, SIZE,0.,1)
      CALL MOVTO2(-5.,-20.)
\mathbf{C}
C....Routine to annotate the x-axis when plotting
C....salinity against pressure (y-axis).
C.... -In this case you have to define where the figures
C....are to be put in the annotation. (As there is no
C....subroutine to annotate multiple variables on on axis.
      CALL NIBSEL(1,0)
      CALL MOVTO2(-6.,-12.5)
      DO 15 N1=1.7
        CALL FNUMB(35.+N1*0.2,4,1,SIZE,0.,1,IERR)
        CALL MOVTO2(16.+(N1-1)*20,-12.5)
 15
      CONTINUE
С
C....Labelling the salinity scale for the x-axis.
      CALL MOVTO2(-39.,-12.5)
      CALL TEXT4('SALINITY (PSU)', 14, SIZE, 0.,1)
C....Routine to annotate x-axis when plotting
C....oxygen against pressure (y-axis).
C.... The method of annotation is the same as
C....that for salinity.
      CALL NIBSEL(1,0)
      CALL MOVTO2(-3.5, -24.5)
      DO 14 \text{ N}2=1,7
        CALL FNUMB(1.0+N2,3,1,SIZE,0.,1,IERR)
        CALL MOVTO2(17.5+(N2-1)*20,-24.5)
 14
      CONTINUE
C
C....Labelling the oxygen scale for the x-axis.
      CALL MOVTO2(-39.,-24.5)
      CALL TEXT4('OXYGEN (ML/L)',13,SIZE,0.,1)
      CALL NIBSEL(1,U)
      CALL MOVTO2(-6.,-18.5)
      DO 13 \text{ N}3=1.7
        CALL FNUMB(26.5+N3*0.2,4,1,SIZE,0.,1,IERR)
        CALL MOVTO2(16.+(N3-1)*20.,-18.5)
 13
      CONTINUE
      CALL MOVTO2(-39.,-18.5)
```

```
CALL TEXT4('SIGMA.T.(CGS)',13,SIZE,0.,1)
C....Routine to annotate details about cruise 132
      CALL MOVTO2(-18.,-34.)
      CALL TEXT4('DISCOVERY 132',13, SIZE,0.,1)
      CALL MOVBY2(5.,0.)
      CALL LABSIZ(SIZE)
      CALL LABEL(0, FILE, 14)
      CALL MOVBY2(5..0.)
С
      CALL TEXT4('1983/40/1907 41 21.2N 18 51.5W', 32, SIZE, 0., 1)
C
      CALL MARSEL(0)
      CALL LINSEL(1)
      NORECS=1200
      CALL QINDAT(2,1,NORECS,Y)
      DO 30 IVAR=3,11
         IF(IVAR.NE.3.AND.IVAR.NE.5.AND.IVAR.NE.7.AND.IVAR.NE.6)GO TO 30
         PRINT , IVAR
         CALL NIBSEL(1,2)
С
C.....Change the scale of the x-axis for each variable
C
         IF(IVAR.EQ.5)CALL DEFLA1(35.2,36.4,1)
         IF(IVAR.EQ.7)CALL DEFLA1(26.7,27.9,1)
         IF(IVAR.EQ.6)CALL DEFLA1(2.,8.,1)
         J=IVAR
         CALL QINDAT(J,1,NORECS,X)
C
C.....Routine to place initials at the top of graph
C.....for the four variable plots.
         IF (IVAR.EQ.3) XPEN=((X(10)-3.)/(15.-3.))*120.
         IF (IVAR.EQ.5) XPEN=((X(10)-35.2)/(36.4-35.2))*120.
         IF (IVAR.EQ.7) XPEN=((X(10)-26.7)/(27.9-26.7))*120.
         IF (IVAR.EQ.6) XPEN=((X(10)-2.)/(8.-2.))*120.
         CALL MOVTO2 (XPEN-2., 202.)
         IF (IVAR.EQ.3) CALL TEXT4('T',1,SIZE2,0.,1)
         IF (IVAR.EQ.5) CALL TEXT4('S',1,SIZE2,0.,1)
         IF (IVAR.EQ.7) CALL TEXT4('D',1,SIZE2,0.,1)
         IF (IVAR.EQ.6) CALL TEXT4('0',1,SIZE2,0.,1)
      CALL POIBEG
         DO 20 N=1, NORECS
C.....Routine to lift pen if absent data values
C....or to lift pen at end of each variable plot.
 16
            IF(N.EQ.NORECS)GO TO 17
            IF(X(N).CE.0.0.AND.Y(N).GE.0.0)GOTO 18
 17
            CALL POIEND
            CALL POIBEG
            GO TO 20
С
```

```
C.....If data is too small, wrap around occurs so plot is not lost
C.....Subroutine POILA2 plots coordinates (X(N),Y(N)).
         IF(IVAR.NE.5)GOTO19
18
         IF (X(N).LT.35.2) X(N)=X(N)+1.2
C.....Routine to skip plot subroutine if points are out of range
            of the graph scales'
         IF ((Y(N).GT.2000.).OR.(Y(N).LT.0.)) GOTO20
 19
            CALL POILA2(X(N),Y(N))
 20
       CONTINUE
      CALL POIEND
 30 CONTINUE
     CALL DETACH(11, ISTAT, )
     CALL DEVEND
      STOP
      END
```

TABLE 7

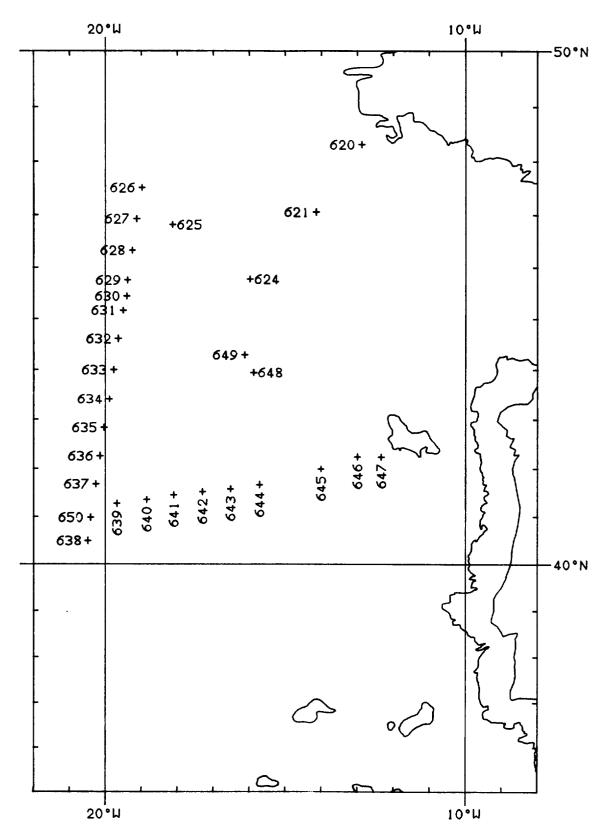
Production of Listings

1

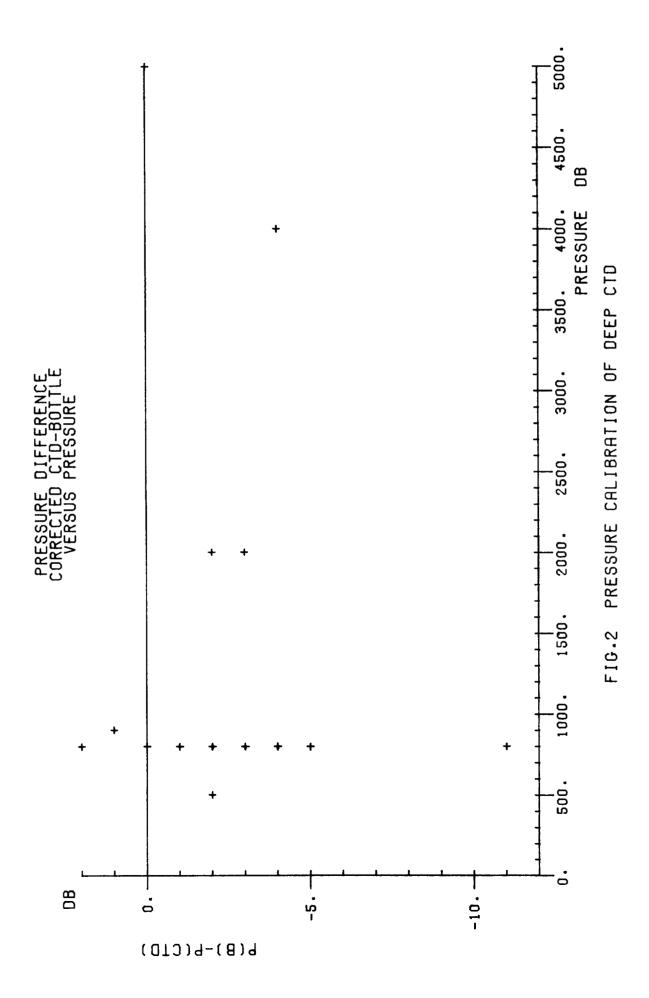
```
G-EXEC PC73,900,6
SPU, TCC, RTP CREATING LIST FILE FOR DATA REPORT
MESS THIS JOB NEEDS PACK 10S22 (TCC)
EXEC GSHFIL, ,WB
11
MAKE SUMMO2PU
MAKE HISTO2PU
EXEC PCOPYA
VARS,1,2,3,5,6,4,7,2,2,2,2
COPY,,
FIND WPRDI10645BW
MAKE PHYSFILE,,,11,6000
EXEC PINTRP
LINE, 1,2
COPY, 3, 4, 5, 6, 7, 2, 2, 2, 2
FIND PHYSFILE
MAKE PHYSFILE
EXEC PAVRGE
SCAN, 2, 2.5, 5
VARS, 2, 3, 4, 5, 6, 7, 2, 2, 2, 2, 2
FIND PHYSFILE
MAKE PHYSFILE
EXEC PEOS83
CYCS,,
POSI,41,59.8,14,00.7
COPY
VARS, 1, 2, 3, 4, 5, 6
SIGP, 1000
VARS, P, 1, T, 2, S, 3
SIGP,2000
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 PHYSFILE
MAKE PHYSFILE
EXEC PFETCH
000001
CYCS,,
VARS,1,-,11,11,11
SEARCH, PRES
LEVS, 10, 20, 40, 60, 80, 100, 120, 140, 160, 180, 200
LEVS, 220, 240, 260, 280, 300, 320, 340, 360, 380, 400
```

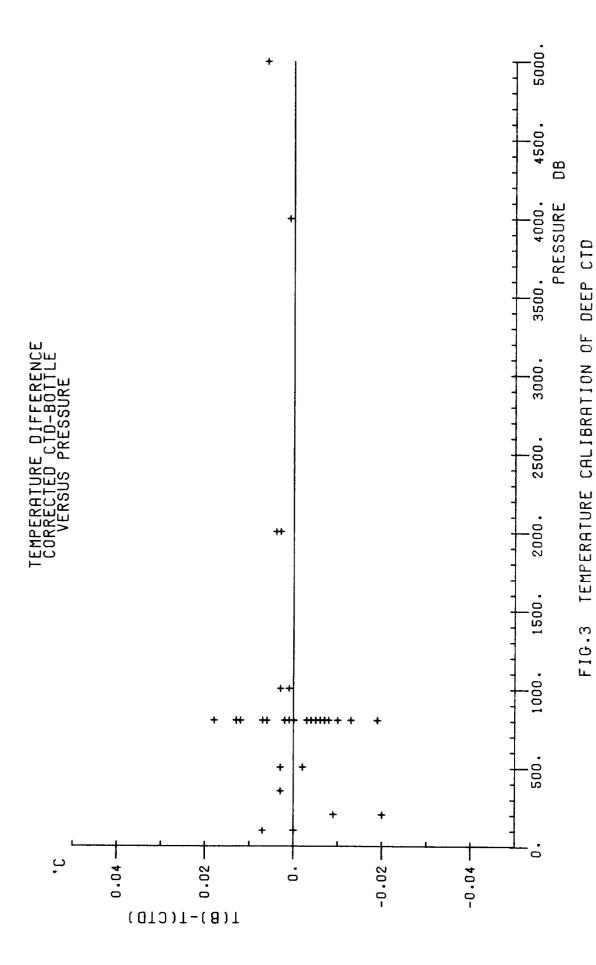
```
LEVS, 450, 500, 550, 600, 700, 800, 900, 1000, 1100, 1200, 1300, 1400
LEVS, 1500, 1600, 1700, 1800, 1900, 2000, 2200, 2400, 2600, 2800
LEVS, 3000, 3500, 4000, 4500, 5000, 5500
FIND PHYSFILE
MAKE PFETCH5
EXEC PEOS83
CYCS,,
COPY
VARS, 1, -, 11
SVAN
VARS, P, 1, T, 2, S, 3
BVFR
VARS, P, 1, T, 2, S, 3
FIND PFETCH5
MAKE PFETCH5
EXEC PCALIB
0
COPY, 1, PRES
COPY, 2, TEMP, ,-9.999
COPY, 3, SALIN,, -9.999
COPY, 4, OXYGEN,, -9.99
COPY, 5, POTEMP, , -9.999
COPY,6,SIGMAT,,-9.999
COPY,/,SIG1000,,-9.999
COPY,8,SIG2000,,-9.999
COPY, 9, DYNHT, ,-9.999
COPY, 10, SNDVEL, ,-999.9
COPY, 11, DEPTH, ,-999
COPY, 12, SVANOM,, -9.999
COPY, 13, BVFR, ,-9.999
FIND PFETCH5
MAKE PFETCH5
EXEC PLSTDC
0000000000101
(1H1//30X, 'DISCOVERY 132 STATION 10645'//'
                                                   P-DB',
               SAL-PSU DO-ML/L POTEMP SIGNAT SIG1000',
     T-DEGC
              DYNHT-H SNDV-M/S DEPTH-M SVANOM BVFR-CY/HR'///)
   SIG2000
(1X,F8.0,2F9.3,F8.2,1X,F8.3,4F9.3,F9.1,F/.0,E12.4,F9.3)
CYCS,,
VARS,-
FIND PFETCH5
EXEC GSHFIL
MAKE HISTO2PU
STOP
```

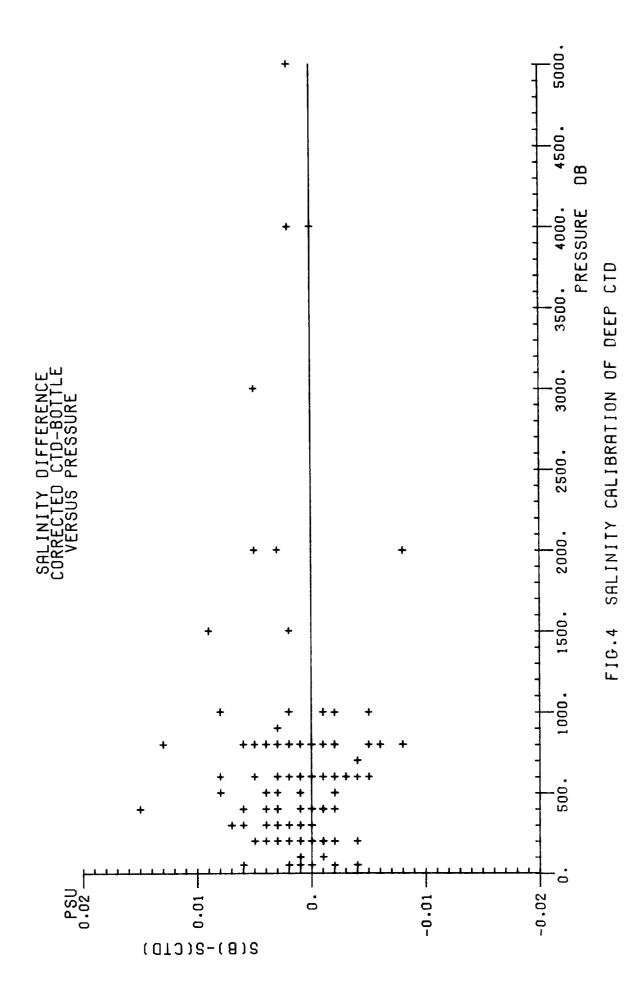
FIG.1 CTD POSITIONS ON DISCOVERY CRUISE 132



MERCATOR PROJECTION WITH COASTLINE AND 1000 FATHOM DEPTH CONTOUR







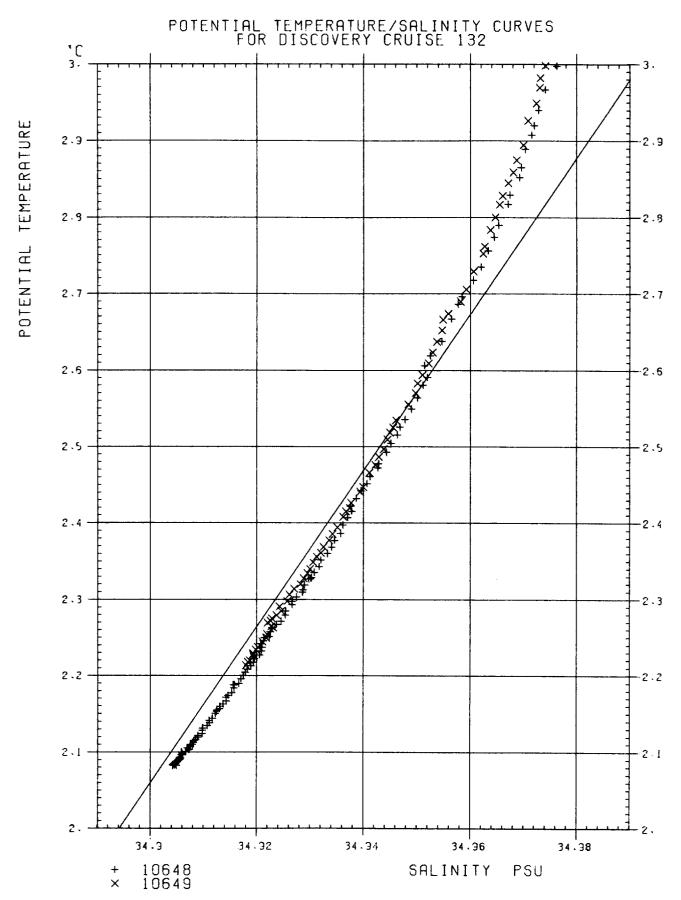
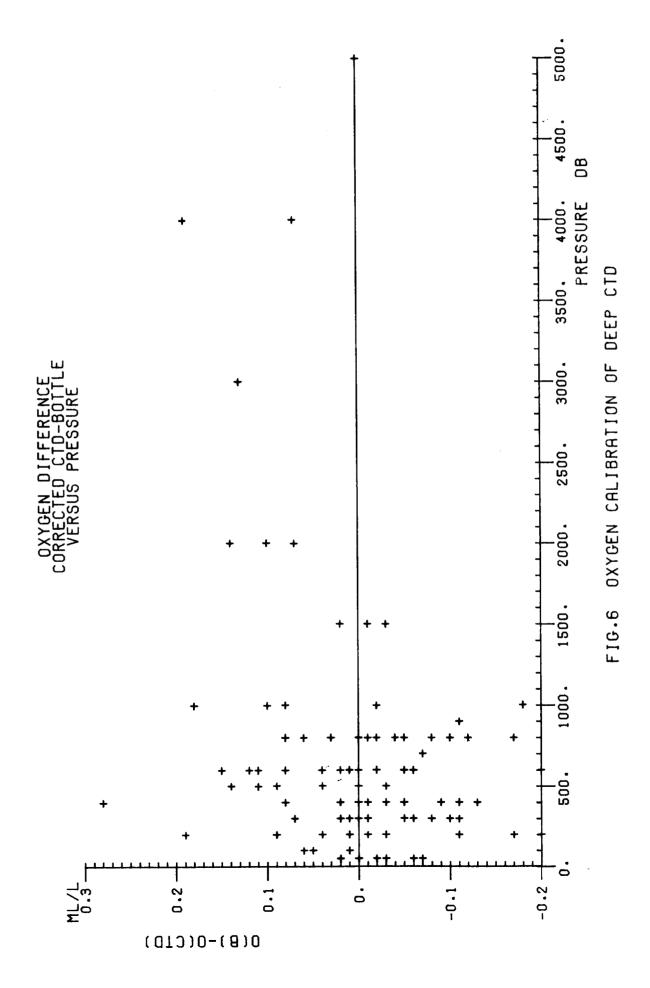


Fig. 5. Deep θ/S diagram



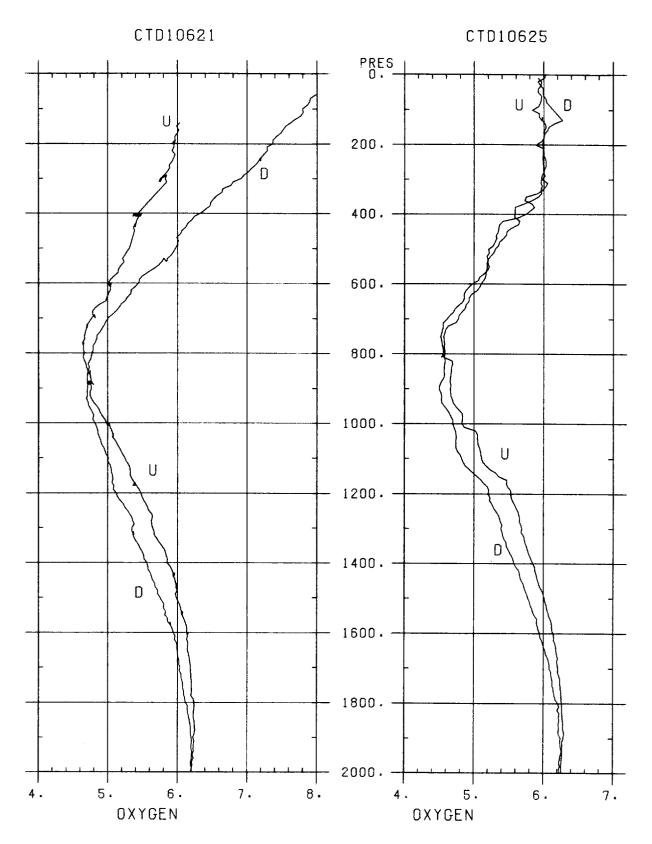


Fig. 7(a). Down and up cast oxygen profiles

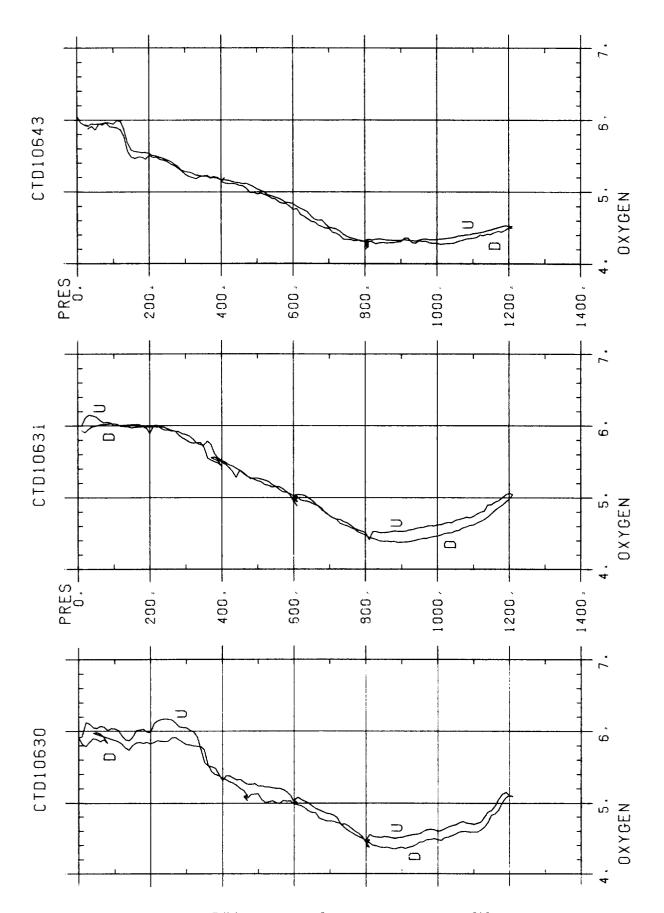
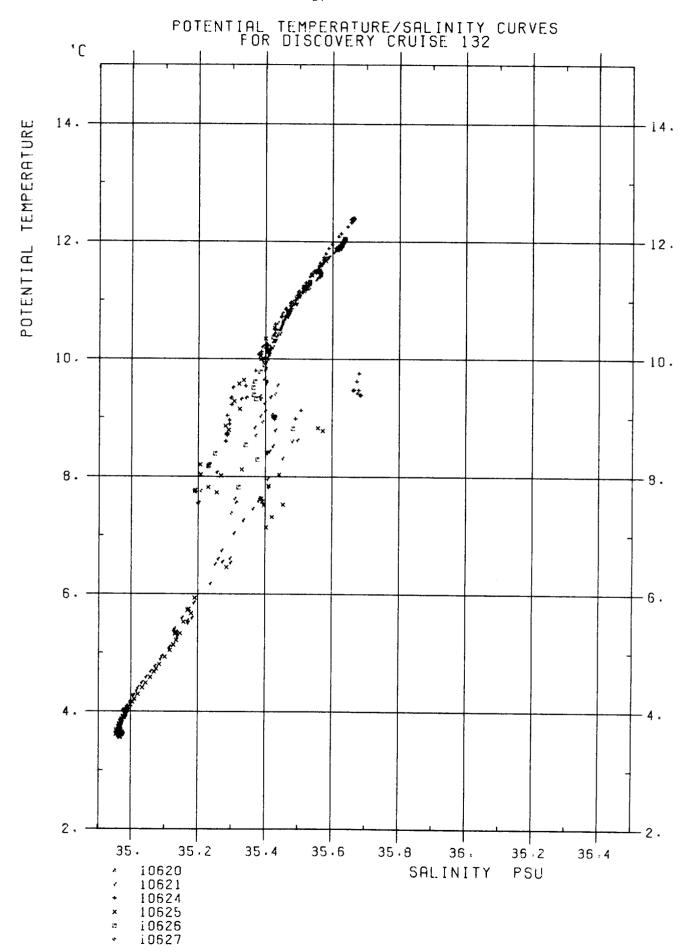
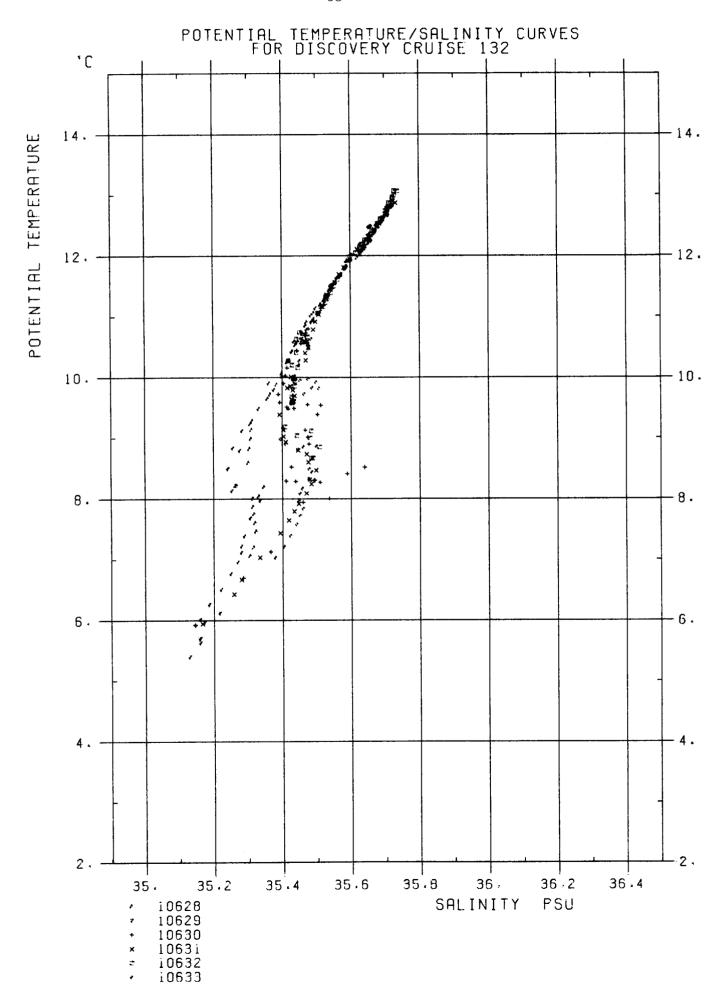
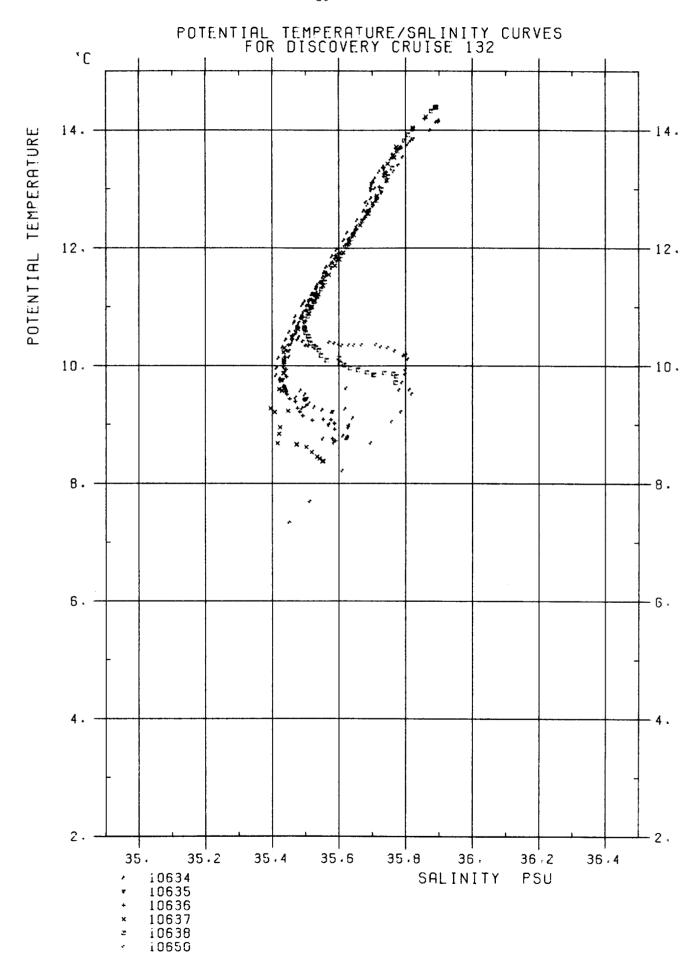
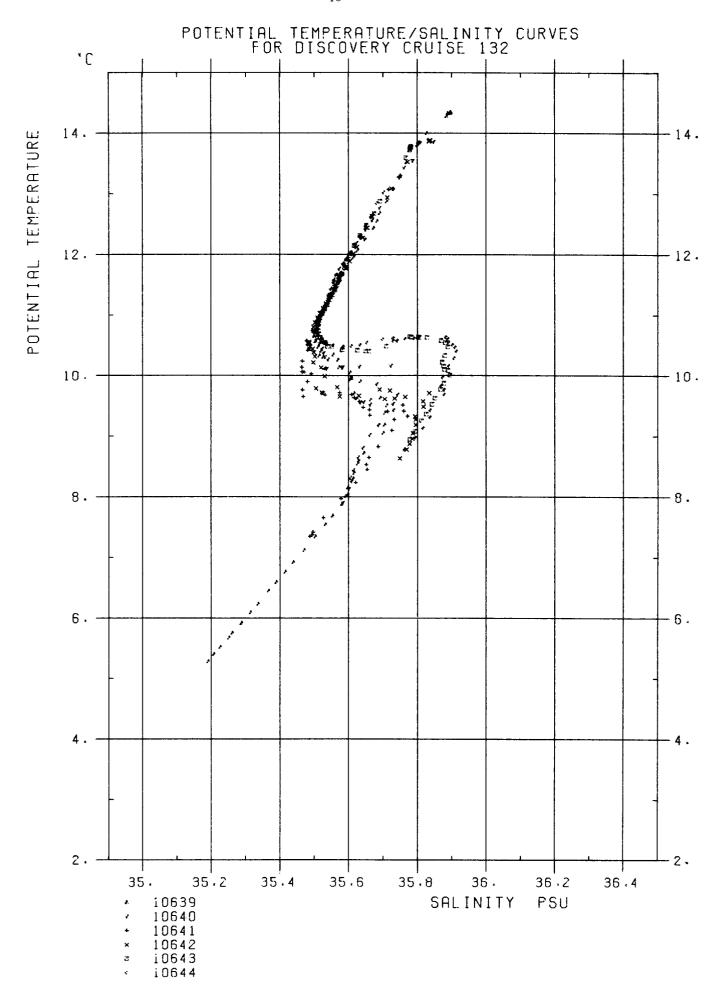


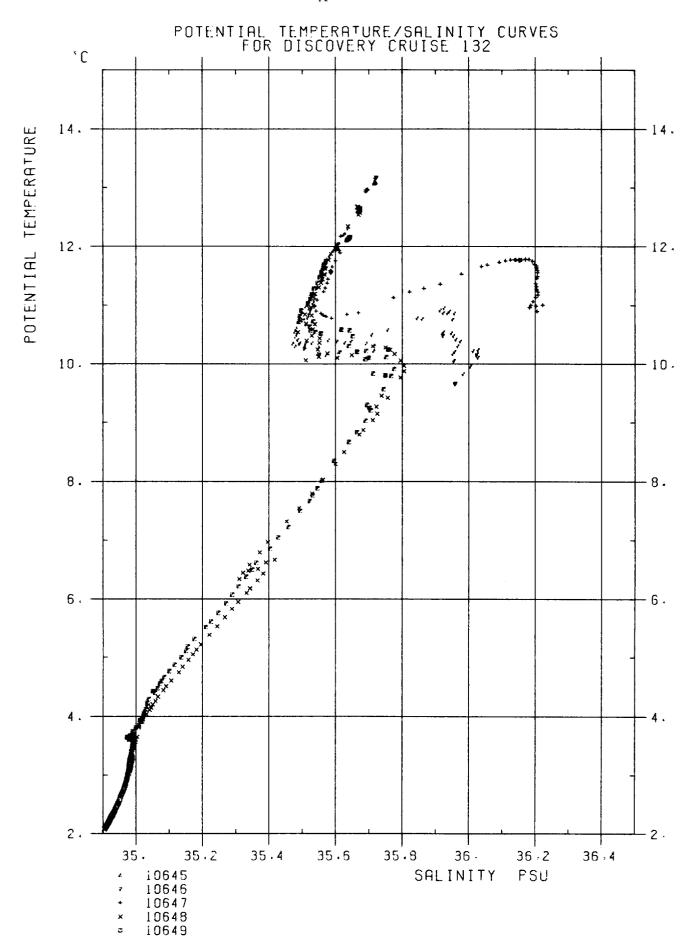
Fig. 7(b). Down and up cast oxygen profiles

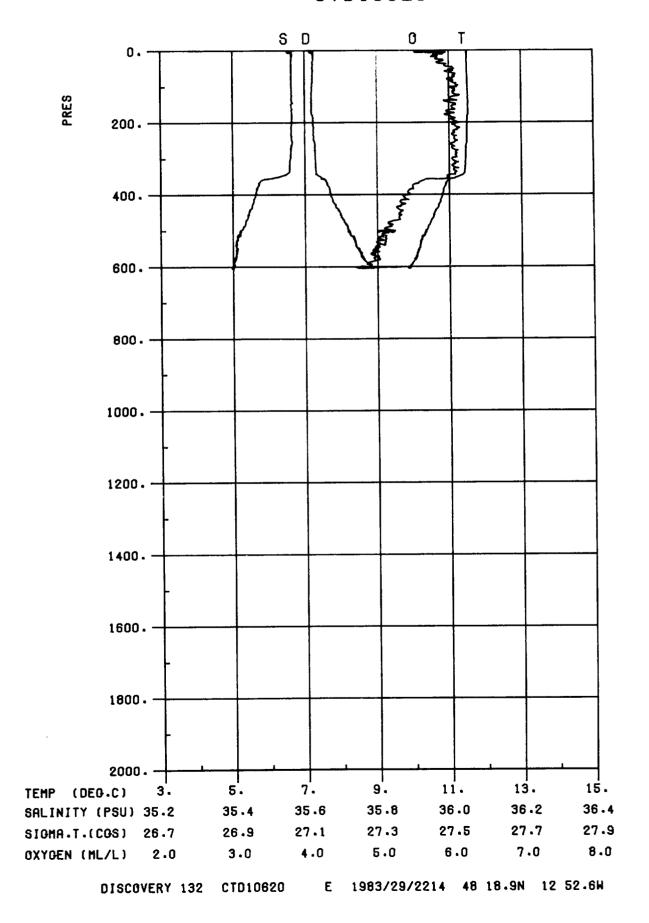






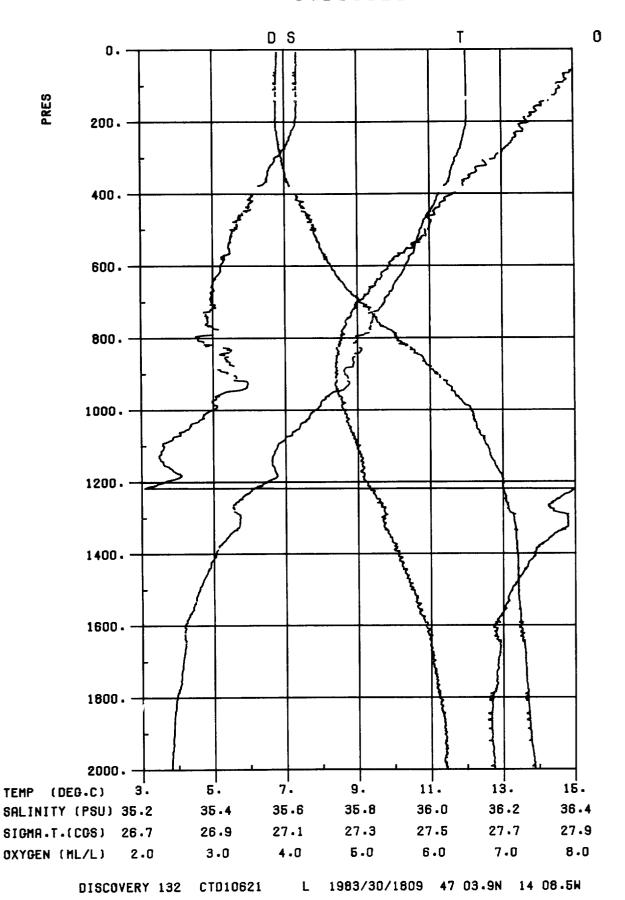






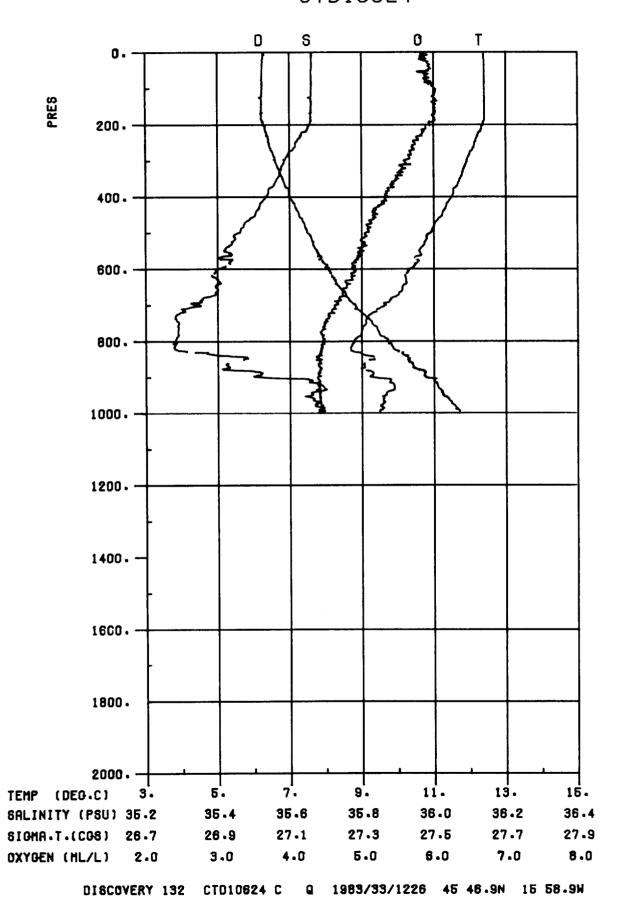
DISCOVERY 132 STATION 10620

BVFR-C/HR	-9.999	0.319	0.139	-0.206	-0.385	-0.417	0.411	0.197	0.647	0.598	0.492	0.319	0.846	0.371	0.357	0.470	0.545	-9.999	1.790	1.007	1.329	1.281	1.345	1.599
SVANOM BV	0.9332E 02	0.9413E 02	0.9466E 02	0.9522E 02		0.9649E 02			0.9773E 02	0.9805E 02	0.9845E 02		0.9903E 02	0.9948E 02	0.9994E 02	0.1003E 03	0.1007E 03	_	0.9789E 02	0.9779E 02	0.9640E 02).9518E 02	0.9368E 02	0.9104E 02
DEPTH-M	10.		_						_	198.						317. (_	545. (
SNDV-M/S	1495.9	1496.1	1496.8	1497.1	1497.5	1497.8	1498.2	1498.5	1498.8	1499.1	1499.4	1499.7	1500.0	1500.3	1500.6	1500.8	1501.1	6.666-	1499.7	1499.8	1499.9	1499.9	1500.0	1499.9
DYNHT-M	0.009	0.037	0.056	0.075	0.094	0.114	0.133	0.152	0.172	0.192	0.211	0.231	0.251	0.271	0.291	0.311	0.331	-9.999	0.370	0.390	0.438	0.486	0.533	0.580
SIG2000	35.865	35.865	35.865	35.865	35.864	35.862	35.864	35.864	35.867	35.870	35.872	35.872	35.878	35.879	35.880	35.882	35.885	666.6-	35.945	35,953	35.989	36.022	36.057	36.106
SIG1000	31.543	31.544	31.544	31.543	31.542	31.541	31,542	31.542	31.545	31.548	31.550	31.550	31.555	31.556	31.557	31.559	31.561	666.6-	31.609	31.616	31.647	31.676	31,706	31.749
SIGMAT	27.123	27.124	27.122	27.122	27.120	27.119	27.119	27.119	27.121	27.123	27.124	27.124	27.128	27.128	27.129	27.129	27.131	27.152	27.166	27.172	27.197	27.220	27.245	27.282
POTEMP	11.500	11.494	11.492	11.492	11.499	11,505	11.501	11.500	11.489	11.473	11.462	11,459	11.439	11.425	11.415		11.371	-9.999	10.815	10.756	10.531	10.302	10.093	9.834
DO-ML/L	5.86	5.94	00.9	00.9	6.07	90•9	6.03	6.05	5.97	6.12	6.10	6.07	6.03	6.10	90. 9	6.05	90.9	5.90	5.49	5.42	5.31	5.13	4.98	4.81
SAL-PSU	35.565	35,563	35,563	35.563	35.563	35.563	35.564	35.564	35.565	35.564	35.563	35,563	35.564	35.561	35.560	35.558	35.553	35.486	35.469	35.463	35.444	35.423	35.410	35.400
T-DEGC	11.501	11.497	11,500	11,503	11.512	11.520	11.519	11.520	11.512	11,499	11.490	11.490	11.473	11.461	11.453	11.440	11.414	666.6-	10.862	10,805	10.586	10.362	10.159	9.905
P-DB	10.	40°	• 09	80.	100.	120.	140.	160.	180.	200.	220.	240.	260.	280.	300.	320.	340.	360.	380.	400	450.	500.	550.	•009



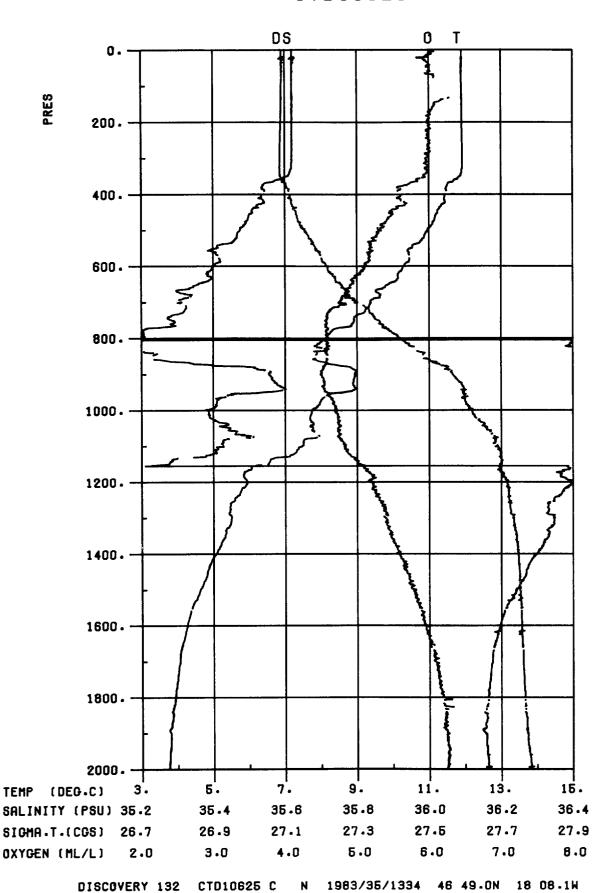
DISCOVERY 132 STATION 10621

/HR	666.6	0.184	-0.246	-0.191	-0.312	249	0.251	-0.631	0.748	0.121	0.220	0.511	0.814	0.765	0.842	0.932	0.824	1.083	0.890	1.193	666.	.513	.284	.116	.461	029•	868.	.961	.871	.468	.288	.300	.022	0.787	0.884	0.692	979	0.709	•718
BVFR-C/HR	6-	Ċ	ှ	္	-0	-0.2	0	<u></u>	0	0	0	0	0	0	0	0	0		·	-	-6-	<u>-</u>	<u>-</u>	1.	-	-	-	Ι.	1.		-	-	<u>.</u>	0	0	0	0	0	0
	02	02	02	05	02	03	03	03		03	03	03		03	03			03		03	0.1	03			02	03	02	02	02	05	02	02	02	02	02	02	02	02	05
SVANON	0.9749E	0.9776E	0.9835E	0.9893E	0.9955E	0.1001E	0.1007E	0.1015E	0.1017E	0.1022E	0.1028E	0.1032E	0.1033E	0.1035E	0.1036E	0.1037E	0.1038E	0.1036E	0.1037E	0.1034E	-0.9999E	0.1004E	0.9921E	0.9859E	0.9662E	0.9066E	0.8213E	0.7279E	0.6437E	0.5975E	0.5645E	0.5296E	0.5121E	0.5059E	0.4938E	0.4902E	0.4881E	0.4832E	0.4777E
DEPTH-M	10.	20.	. 04	59.	79.	99.	119.	139.	159.	178.	198.	218.	238.	258.	277.	297.	317.	337.	357.	376.	396.	446.	495.	545.	594.	693.	792.	891.	986	1088.	1187.	1285.	1384.	1482.	1581.	1679.	1777.	1876.	1974.
S/M-VQNS	1497.8	1498.0	1498.3	1498.6	1499.0	1499.3	1499.7	1500.0	1500.3	1500.6	1500.9	1501.2	1501.3	1501.5	1501.5	1501.5	1501.6	1501.6	1501.8	1501.7	6.666-	1501.4	1501.2	1501.5	1501.3	1500.9	1499.6	1500.2	1498.8	1496.2	1496.7	1495.4	1494.1	1493.8	1493.7	1495.2	1496.2	1497.4	1498.8
DYNHT-M SNDV-M/S DEPTH-M	0.010	0.020	0.039	0.059	0.079	0.099	0.119	0.139	0.159	0.180	0.200	0.221	0.241	0.262	0.283	0.303	0.324	0.345	0.366	0.386	666.6-	0.458	0.508	0.557	909.0	0.700	0.786	0.864	0.932	0.995	1.053	1.107	1.159	1.210	1.260	1.310	1.358	1.407	1.455
SIG2000	35.800	35.800	35.799	35.799	35.798	35.798	35.798	35.796	35.800	35.800	35.801	35,803	35.810	35.815	35.822	35.832	35.838	35.848	35.855	35.869	666.6-	35.933	35.968	35.992	36.035	36.139	36.275	36.404	36.534	36.626	36.685	36.752	36.797	36.823	36.852	36.868	36.882	36.899	36.915
SIG1000	31.489	31.489	31.488	31.488		31.487	31.487	31.485	31,489	31.489	31,489	31.491	31.497	31.501	31.507	31.514	31.519	31.528	31.533	31.544	666.6-	31,600	31.629	31,650	31.687	31.779	31.898	32.020	32.132	32.199	32.251	32,300	32,326	32.341	•	•	•	32,397	32,411
SIGMAT	27.080	27.079	27.079	27.078	27.077	27.076	27.076	27.073	27.076	27.075	27.075	27.076	27.080	27.083	27.086	27.091	27.094	27.100	27.105	27.112	-9.999	27.152	27.179	27.198	27.227	27.306	27.407	27.518	27.613	27.656	27.699	27,730	27.739	27.742	\sim	27.761		27.776	27.788
POTEMP	12.012	12.012	12.014	12.012	12,013	12.014	12.015	12,015	12,008	12,007	11.995	11.964	11.908	11.854	11.781	11.676	11.614	11.533	11.491	11.356	11.206	10.944	10.668	10.512	10.237	659.6	8.838	8.536	7.719	6.659	6.345	5.612	4.915	7.460	4.041	3.982	3.803	3.696	3.627
DO-NL/L	8.47	8.28	8.07	7.97	7.88	7.80	7.77	7.66	7.48	7.41	7.36	7.29	7.20	7.13	7.02	6.91	6.79	6.65	6.53	94.9	6.34	90•9	5.97	5.73	5.44	66.4	4.76	4.71	4.81	5.01	5.12	5.34	5.56	5.74	5.93	6.03	6.11	6.20	•
SAL-PSU	35.634	35.634	35.634	35,633	35.633	35.632	35,633	35.630	35.633	35.633	35.630	35.624	35.615	35.607	35.594	35.575	35.564	35.554	35.549	35.527	-9.999	35.490	35.456	35.444	35.421	35,396	35,356	35,439	35,399	35.259	35.262	35.181	Ś	35.024	•	34.985	•	96.	34.974
T-DEGC	12.014	12.014	12.019	12.020	12.023	12.027	12.030	12.033	12.029	12,030	12.022	11.993	11.939	11.888	11.818	11.715	11.655	11.577	11.537	11.404	11.257	11.000	10.729	10.580	10.310	9.741	8.946	8.636	7.825	6.767	6.462	5.731	5.038	.58	4.172	.12	2	3.852	.78
P-DB	10.	20.	• 0 °	•09	80.	100.	120.	140.	160.	180.	200.	220.	240.	260.	280.	300.	320.	340.	360.	380.	. 007	450.	500•	550.	•009	700.	800.	•006	1000.	1100.	1200.	1300.	1400.	1500.	1600.	1700.	1800.	1900.	2000.



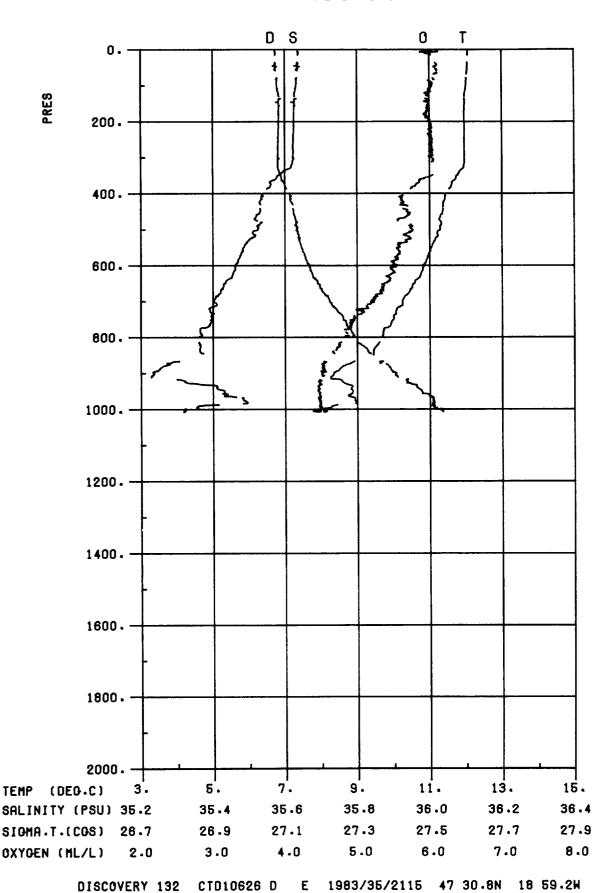
DISCOVERY 132 STATION 10624

BVFR-C/HR	666.6-	-0.734	-0.359	-0.197	0.291	0.362	-0.263	-0.121	-0.191	0.355	1.040	1.008	1.166	0.798	1.282	666.0	1.250	1.217	1.208	1.506	0.774	1.359	1.313	1.399	1.479	1.659	1.833	1.732	1.704
-	03	03	03	03	03	03	03	03	03	03	03		03		03	03	03	03	03	03	03	03	03	03	02	02	02	02	05
SVANOM	0.1024E	0.1028E	0.1035E	0.1041E	U.1046E	0.1051E	0.1057E	0.1063E	0.1069E	0.1074E	0.1073E	0.1073E	0.1070E	0.1072E	0.1068E	0.1067E	0.1063E	0.1060E	0.1057E	0.1048E	0.1050E	0.1036E	0.1023E	0.1006E	0.9855E	0.9269E	0.8485E	0.7807E	0.7167E
DEPTH-M	10.	20.	40.	.09	79.	99.	119.	139.	159.	178.	198.	218.	238.	258.	278.	297.	317.	337.	357.	377.	396.	446.	495.	545.	594.	693.	792.	891.	.686
SNDV-M/S DEPTH-M	1499.1	1499.3	1499.6	1500.0	1500.3	1500.6	1501.0	1501.3	1501.6	1502.0	1502.1	1502.2	1502.1	1502.3	1502.2	1502.2	1502.2	1502.4	1502.4	1502.2	1502.4	1502.2	1501.9	1501.5	1501.4	1500.5	1499.0	1502.7	1505.4
DYNHT-M	0.010	0.020	0.041	0.062	0.083	0.104	0.125	0.146	0.167	0.189	0.210	0.232	0.253	0.275	0.296	0.317	0.339	0.360	0.381	0.402	0.423	0.475	0.526	0.577	0.627	0.723	0.812	0.893	0.968
SIG2000	35.733	35.731	35.730	35.730	35.730	35,731	35.731	35,731	35.731	35.732	35.740	35.750	35.762	35.768	35.783	35.792	35.805	35.817	35.829	35.849	35.854	35.892	35.930	35.971	36.013	36.121	36.251	36,332	36.418
SIG1000	31.429	31.428	31.427	31.426	31.427	31.428	31.427	31.427	31.427	31.428	31.436	31.443	31.454	31.459	31.471	31.479	31,490	31.500	31,511	31.527	31,531	31.564	31,595	31.629	31.666	31.759	31.870	31,963	32.054
SIGMAT	27.028	27.026	27.025	27.024	27.024	27.024	27.023	27.023	27.022	27.022	27.029	27.034	27.042	27.045	27.054	27.060	27.068	27.077	27.085	27.098	27.100	27.127	27.150	27.176	27.207	27.281	27.374	27.477	27.571
POTEMP	12,390	12.395	12.400	12,397	12,398	12.391	12.392	12.393	12.392	12,385	12,336	12.259	12.142	12.089	11.962	11,881	11.799	11,733	11.640	11.493	11.449	11.176	10.855	10.523	10.272	9.548	8.701	9.173	9.381
DO-ML/L	5.86	5.85	5.93	5.90	5.94	6.02	00*9	00*9	6.02	6.01	5.95	5.85	5.79	5.70	5.68	2.60	5.59	5.52	5.42	5.37	5.34	5.18	5.07	4.99	4.87	4.65	4.45	4.39	97.7
SAL-PSU	35.662	35.661	35.661	35,661	35.661	35,661	35.660	35.660	35.660	35.659	35.655	35.644	35.625	35.616	35,597	35.585	35.577	35.572	35,561	35.542	35.536	35,505	35.460	35.419	35,403	35.342	35.283	35,515	35.683
T-DEGC	12.391	12.398	12,405	12.406	12.409	12.404	12.408	12.412	12.413	12.410	12.363	12.288	12.173	12.123	11.999	11.920	11.841	11.777	11.687	11.542	11.501	11.233	10.918	10.590	10.344	9.630	8.790	9.277	664.6
P-DB	10.	20.	* 0 *	•09	80.	100.	120.	140.	160.	180.	200.	220.	240.	260.	280.	300.	320.	340.	360.	380.	400.	450.	500.	550.	•009	700.	800	900	1000.



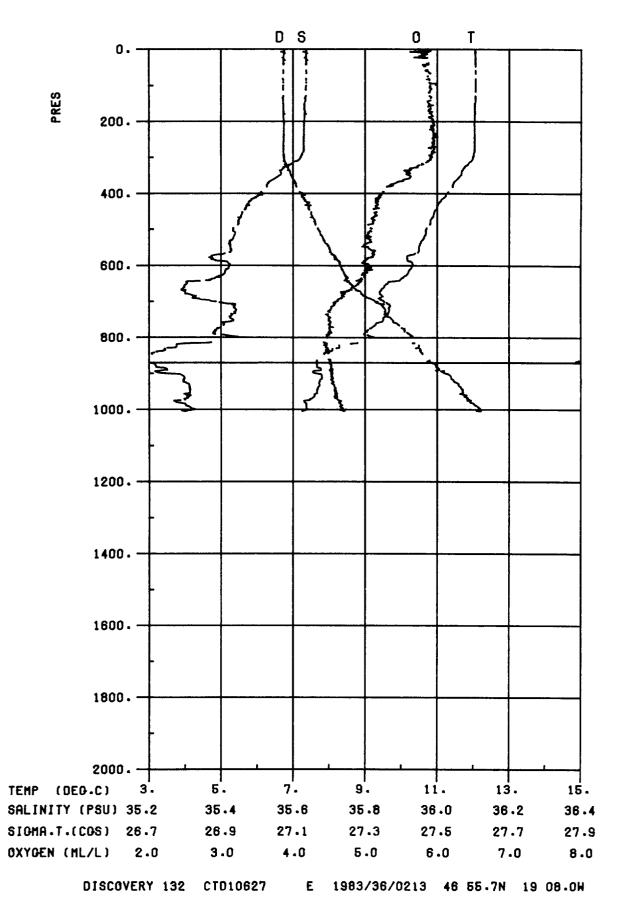
DISCOVERY 132 STATION 10625

BVFR-C/IIR		-7.999	0.261	0.272	0.422	0.209	-0.200	0.139	0.261	-0.049	-0.121	0.167	-0.130	-0.167	0.163	-0.049	0.148	0.110	0.396	1.161	1.537	-9.999	1.147	1.330	1.506	1.497	1.745	2.091	2.069	1.563	1,569	1.503	1.004	0.945	0.836	0.791	0.661	0.621	.67	999*0
BVFR		,				02	'		02	'	·		Ġ	·		'				03	03				2	02	2				2	2								
SVANOM	1000		3679E		3775E		0.9885E 0	9940E	9991E		.1010E								.1053E	.1051E	.1042E							0.7992E 02	0.6922E 0	0.6398E 02	0.5852E 02			0.5058E 0			876E	0.4863E 0	0.4827E 0	0.4792E 0
DEPTH-M	2	10.	20.	.04	59.	79.	.66	119.	139.	159.	178.	198.	218.	238.	258.	277.	297.	317.	337.	357.	377.	•		495.	545.	594.	693.	792.	891.	.686	1088.	1187.	1285.	1384.	1482.	1581.	1679.	1777.	1876.	1974.
SNDV-M/S DEPTH-N	,	149/.4	1497.6	1497.9	1498.2	1498.5	1498.9	•	1499.6	1499.9		1500.6	1500.9	1501.2	1501.6	1501.9	1502.3	1502.6	1502.8	1502.5	1502.0	6.666-	1502.2	1502.0	1501.2	1501.2	1499.5	1496.4	1501.5	1498.4	1499.1	1494.5	1494.3	1494.2	1494.0	1494.1	1494.9	1496.0	1497.1	1498.6
DYNHT-M S	010	0.010	0.019	0.039	0.058	0.078	0.098	0.117	0.137	0.157	0.177	0.198	0.218	0.239	0.259	0.280	0.301	0.322	0.343	0.364	0.385	-9,999	0.457	0.509	0.559	0.608	0.703	0.789	0.863	0.930	0.991	1.046	1.099	1.150	1.200	1.249	1.298	1.347	1.395	1.444
SIG2000	5	970.00	35.814	S	35.816	35.817	5	35.817	35.817	ഗ	2	35.817	35.817	35.817	35.817	35.817	35.817	35.817	35.819	35.834	35.858	-9.999	35.895	35.932	35.982	36.025	36.148	36.321	36.434	36.541	36.625	36.727	36.768	36.803	36.831	36.856	36.871	36.884	36.899	36.913
SIG1000		100.10	31.501	31.502	31,503	31,503	31.503	31,503	31,504	•	•	31.504	31.504	31,503	31.504	31,504	31.504	31,504	31,505	31,516	31.535	666.6-	31.567	31.598	31.639	31.676	31.780	31.925	32.058	32.136	2	32,280	32,309	32,333	32,350	2	32,375	32,384	32,396	2.
SIGNAT	000 26	060.12	27.090	27.090	27.090	27.090	27.089	27.089	27.089	27.088	27.088	27,087	27.087	27.086	27.086	27.085	27.085	27.084	27.085	27.092	27.104	666.6-	27.130	27.154	27.184	27.216	27.298	27.416	27.565	27.616	27.688	27.717	27.734	27.747	27.752	27.757	27.761	27.766	27.773	27.784
POTEMP	11 000	•	11.901	•	•	11.891	11.890	11.889	11.889	•	11,888	•	11.888	11.888	11.888	11.886	11.885	11.882	11.856	11.682	11.432	•	11.175	10.889	10.441	10.210	9.289	8.050	8.825	7.629	7.340	5.826	5.372	4.940	4.490	4.120	3.908	3.769	3.627	3.582
DO-ML/L	60.3	70.0	5.89	00•9	00.9	90•9	-9.99	-9.99	6.16	6.05	6.01	5.98	5.99	5.99	00.9	6.01	5.95	5.99	5.97	5.83	5.56	66.6-	5.47	5.32	5.19	5.08	4.74	4.58	67.7	4.69	4.83	5.20	5.38	5.55	5.78	5.94	6.07	6.19	6.26	6.26
SAL-PSU	ď	070.00	35.620	35.619	35.620	35.619	35.619	35.619	35.619	35.619	35.619	35.619	35.619	35.619	35.619	35.619	35.618	35.618	35.613	35.579	35.535	-9.999	35.509	35.474	35.410	35.400	35.307	35.206	35.554	35.384	35.421	35.197	35.148	35.100	35.041	34.997	34.974	34.963	34.955	34.964
T-DEGC	11 003	11.500	•	11.902	•	•	11,903	11.905	11.907	11.909	11.912	11.914	11.917	11.919	11.922	11.923	11.924	11.924	11.901	11.729	11.481	666.6-	11.232	10.952	10.508	10.282	9.370	8.135	8.927	7.734	7.454	5.937	5.489	5.063	4.617	4.253	4.047	3.915	3.782	3.745
P-DB	<u>.</u>	• : :	5 0.	* 0 *	• 09	80.	100.	120.	140.	160.	180.	200.	220.	240.	260.	280.	300.	320.	340.	360.	380.	4 00 •	450.	500.	550.	•009	700.	800.	•006	1000.	1100.	1200.	1300.	1400.	1500.	1600.	1700.	1800.	1900.	2000.



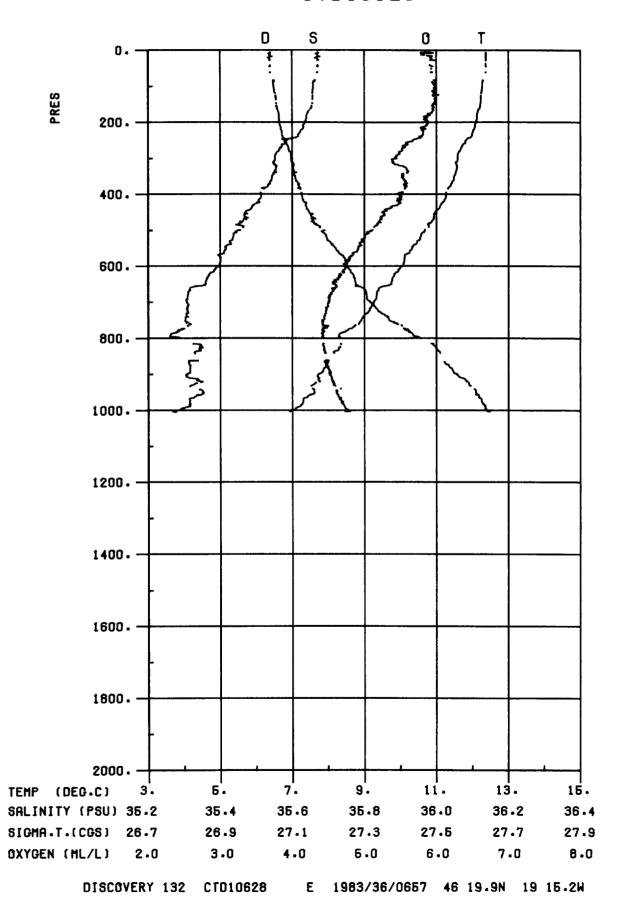
DISCOVERY 132 STATION 10626

BVFR-C/HR	666.6-	-1.641	1.231	0.258	1.035	-0.484	0.872	0.498	0.279	0.223	0.152	0.171	-0.049	0.188	0.206	0.181	660.0-	0.951	1.064	1.374	-9.999	1.089	0.823	1.030	1.249	1.456	1.538	2.123	2.038
BV	02	02)2)2)2	02	03	03	03	03	03	03)3)3)3	3)3)3					03	03	03)2	22	75	02
SVANOM	0.9807E		0.9881E		0.9925E (0.1000E	0.1005E (0.1010E	0.1015E (0.1020E (0.1026E (0.1047E (0.1053E		0.1051E (0.1046E (-0.9999E (0.1039E (0.1042E (0.1039E (0.1029E (0.9899E	0.9427E (0.8299E	0.7259E
DEPTH-M	10.	20.	* 0 *	59.	79.	.66	119.	139.	159.	178.	198.	218.	238.	258.	277.	297.	317.	337.	357.	376.	•	446.	495.	545.	594.	693.	792.	891.	•686
SNDV-M/S	1497.9	1498.1	1498.4	1498.7	1499.0	1499.3	1499.5	1499.8	1500.1	1500.4	1500.7	1501.1	1501.4	1501.7	1502.1	1502.4	1502.7	1502.5	1502.5	1502.4	6.666-	1502.7	1503.2	1503.2	1503.2	1502.7	1502.3	1498.9	1499.3
DYNHT-M	0.010	0.020	0.039	0.059	0.079	0.099	0.119	0.139	0.159	0.179	0.200	0.220	0.241	0.261	0.282	0.303	0.324	0.345	0.366	0.387	666.6-	0.460	0.512	0.564	0.616	0.717	0.813	0.902	0.980
SIG2000	35.792	35.783	35.793	35.794	35.802	35.801	35.807	35.809	35.810	35.810	35.810	35.811	35.811	35.811	35.811	35.812	35.812	35.823	35.834	35.850	666.6-	35.884	35.897	35.922	35.953	36.037	36.127	36,304	36.444
SIG1000	31,482	31.473	31,483	31.484	31.491	31.489	31,495	31.497	31.497	31.498	31.498	31.498	31.498	31.499	31.499	31.499	31.499	31.507	31.515	31.529	-9.999	31.558	31.570	31.589	31.616	31.688	31.766	31,913	32.045
SIGMAT	27.073	27.065	27.074	27.074	27.080	27.078	27.082	27.083	27.083	27.083	27.083	27.082	27.082	27.081	27.081	27.081	27.080	27.085	27.091	27.101	666.6-	27.124	27.133	27.146	27.167	27.224	27.288	27.406	27.529
POTEMP	12,058		12.045	12,032	12.007	•	•	•	11.941	11,937	11,935	11.934	11,930	11.924	11.925	11.922	11,906	11.779	11.667	11.547	-9,999	11,300	11.217	10.976	10.756	10.157	9.593	8.252	7.876
DO-ML/L	5.97	6.04	6.10	6.10	6.05	6.02	5.96	5.99	5.97	5.93	5.99	6.02	6.01	6.03	6.04	6.02	66.6-	66.6-	5.90	5.79	-9.99	5.69	5.76	5.57	5.52	5.21	4.73	4.51	4.53
SAL-PSU	35.637	35.628	35.636	35,633	35.635	35.631	35.627	35.627	35.626	35.625	35.625	35.625	35.624	35.623	35.623	35.622	35.618	35,593	35.574	35,559	-9.999	35.531	35.524	35.485	35.462	35.402	35,362	35.236	35,321
T-DEGC	12.059	12.067	12,050	12,040	12.016	12,011	11.973	11.966	11.962	11,960	11.961	11.962	11.961	11.959	11.962	11,961	11.948	11,823	11,714	11.596	-9.999	11,358	11.281	11.045	10,830	10.242	9.688	8.349	7.983
P-DB	10.	20.	40.	•09	80.	100.	120.	140.	160.	180.	200.	220.	240.	260.	280.	300.	320.	340.	360.	380.	400.	450.	500.	550.	•009	700.	800.	900	1000.



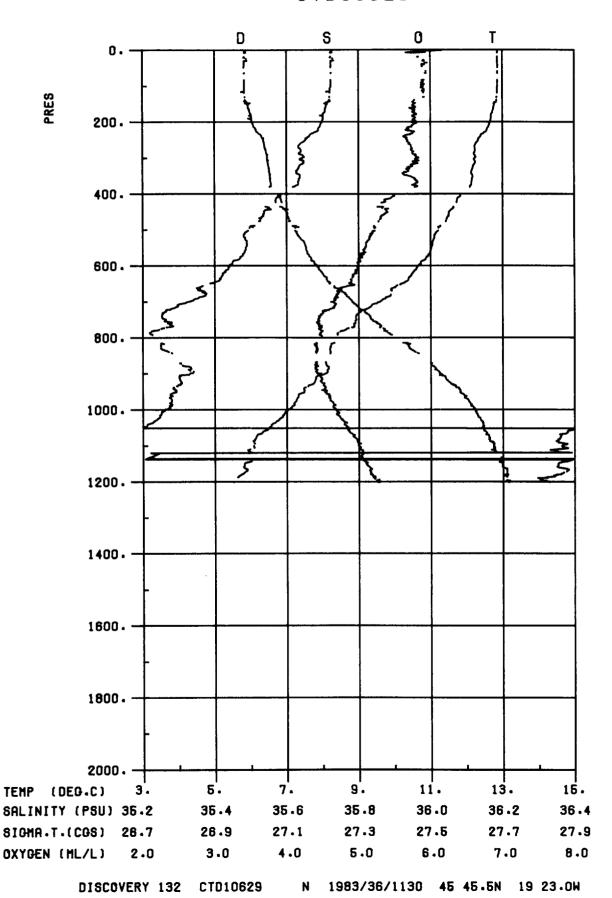
DISCOVERY 132 STATION 10627

BVFR-C/HR	-9,999	-0.070	0.191	-0.130	-0.339	0.436	0.773	-0.711	0.476	0.564	0.336	0.283	0.178	-0.184	0.231	0.566	1.012	1.462	1.183	1.312	1.538	1.408	1.215	1.437	1.499	1.854	1.880	1.947	1.809
m	02	02	02	02	03	03	03	03	03	03	03	03	03	03	03	03	03	03	03	03	03	03	03	02	02	02	02	02	02
SVANOM		0.9831E	0.9885E	0.9942E		0.1005E			0.1020E	0.1024E (0.1033E					0.1053E	0.1046E	0.1043E (0.1038E (0.1012E	0.1002E	0.9839E		0.8833E		.7075E	0.6285E
DEPTH-M	10.	20.	40			.66	119.	139.	159.	178.								337.	357.	377.	396.	446.	495.	545.	594.	693.	792.	891.	986.
SNDV-M/S	1497.9	1498.1	1498.4	1498.8	1499.1	1499.4	1499.7	1500.1	1500.3	1500.7	1501.0	1501.3	1501.6	1502.0	1502.3	1502.5	1502.3	1502.0	1501.9	1501.7	1501.6	1501.1	1501.1	1501.2	1501.3	1500.1	1500.7	1496.3	1497.0
DYNHT-M	0.010	0.020	0.039	0.059	0.079	0.099	0.119	0.140	0.160	0.180	0.201	0.221	0.242	0.263	0.284	0.305	0.326	0.347	0.368	0.389	0.409	0.460	0.511	0.560	609.0	0.703	0.787	0.863	0.929
SIG2000	35.792	35.792	35.793	35.792	35.792	35.793	35.797	35.794	35.796	35.798	35.800	35.800	35.800	35.800	35.801	35.804	35.816	35.835	35.848	35.864	35.884	35.927	35.958	35.997	36.039	36.171	36.290	36.452	36.561
SIG1000	31,482	31.482	31.482	31.482	31.482	31.483	31,487	31.484	31.485	31,487	31.488	31.489	31.489	31.489	31,489	31.492	31.501	31.517	31.527	31.540	31.557	31.593	31.619	31.653	31.691	31.806	31.919	32.044	32.148
SIGNAT	27.074	27.074	27.073	27.073	27.072	27.072	27.075	27.072	27.073	27.074	27.074	27.074	27.074	27.073	27.073	27.074	27.079	27.091	27.099	27.108	27.122	27.149	27.169	27.199	27.231	27.327	27.432	27.523	27.620
POTEMP	12.049	12.049	12.049	12.050	12.051	12.046	12.037	12.034	12.015	12,015	11.999	11.997	11.995	11,993	11,993	11.947	11.804	11.629	_;	11.374	11.238	ਂ	10.629	10.426	10.224	9.429	9.127	7.550	7.276
DO-ML/L	5.74	5.79	5.87	5.85	5.88	5.93	5.88	5.91	5.89	5.92	5.93	5.93	5.95	5.94	5.95	5.92	5.79	5.58	5.59	5.35	5.24	5.16	5.06	5.02	90° 5	4.61	4.46	4.54	4.68
SAL-PSU	35.636	35.636	35.636	35.636	35.635	35.636	35.638	35.634	35.631	35.633	35.630	35.630	35.630	35.629	35.629	35.620	35.592	35.565	35.548	35.527	35.512	35,460	35.433	35.426	35.422	35.374	35.446	35.249	35,324
T-DEGC	12.050	12.051	12.055	12.058	12.061	12.059	12.053	12.053	12.036	12.038	12.026	12.026	12.026	12.027	12.030	11.987	11.846	11.673	11.562	11.422	11.289	10.920	10.691	10.493	10.297	9.510	9.213	7.644	7.379
P-1)B	10.	20.	* 0 *	•09	80.	100	120.	140.	160.	180.	200.	220.	240.	260.	280.	300.	320.	340.	360.	380.	400.	450.	500.	550.	•009	700.	800.	•006	1000.



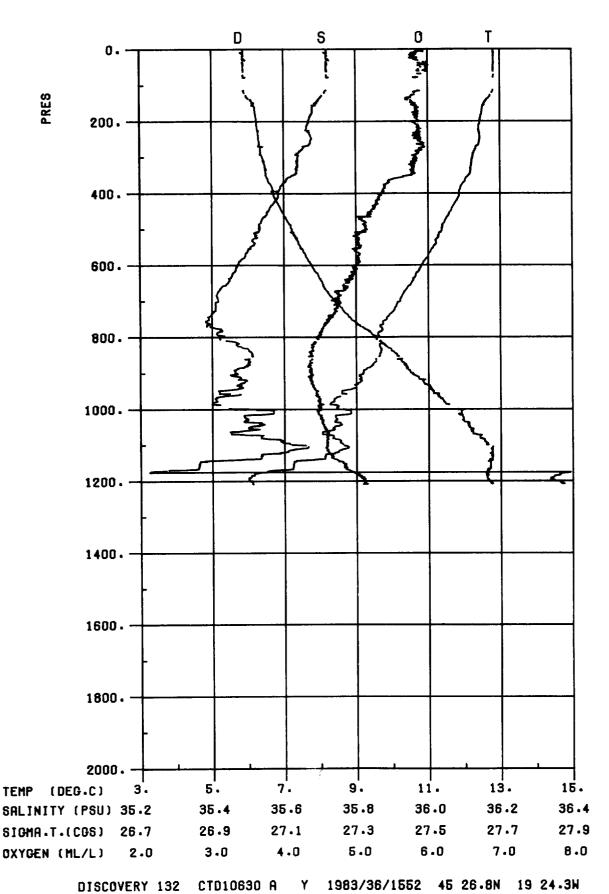
DISCOVERY 132 STATION 10628

BVFR-C/HR	-9.999	-0.475	0.511	0.422	1.081	0.645	0.810		0.732			0.853			1.283		1.064		0.884								2.191	1.883	1.800
SVANOM	0.1014E 03	0.1017E 03	0.1021E 03	0.1026E 03	0.1025E 03	0.1028E 03	0.1030E 03		0.1035E 03	0.1034E 03			0.1039E 03	0.1034E 03	0.1030E 03	0.1030E 03		0.1031E 03	0.1031E 03	0.1025E 03	0.1023E 03			0.9614E 02	0.9413E 02		0.7685E 02	0.6824E 02	0.6041E 02
DEPTH-M	10.	20.	40.	59.	79.	99.	119.	139.	159.	178.	198.	218.	238.	258.	278.	297.	317.	337.	357.	377.	396.	446.	495.	545.	594.	693.	792.	891.	.686
DYNHT-H SNDV-N/S DEPTH-M	1499.0	1499.2	1499.5	1499.8	1500.0	1500.2	1500.4	1500.7	1500.9	1501.0	1501.2	1501.4	1501.4	1501.0	1500.9	1501.0	1501.2	1501.5	1501.6	1501.6	1501.5	1501.2	1501.0	1500.5	1500.4	1499.1	1497.2	1496.8	1495.6
DYNHT-H	0.010	0.020	0.041	0.061	0.082	0.102	0.123	0.143	0.164	0.185	0.206	0.226	0.247	0.268	0.258	0.309	0.330	0.350	0.371	0.391	0.412	0.463	0.513	0.562	0.609	0.701	0.784	0.856	0.920
S1G2000	35.744	35.743	35.745	35.747	35.756	35.761	35.766	35.770	35.774	35.784	35.787	35.794	35.802	35.821	35.836	35.844	35.852	35.856	35.863	35.879	35.890	35.924	35.976	36.027	36.069	36.170	36.348	36.475	36.596
SIC1000	31.440	31,440	31.441	31.443	31.451	31.455	31.459	31.463	31,467	31.474	31.478	31.483	31.490	31.504	31.517	31.523	31,531	31.534	31.540	31,554	31,563	31,590	31.636	31.679	31,715	31.800	31.957	32.071	32.174
SIGMAT	27.039	27.038	27,039	27.039	27.041	27.048	27.052	27.055	27.057	27,063	27.065	27.069	27.074	27.083	27,093	27.097	27.104	27.106	27.110	27.121	27.127	27.148	27.186	27.221	27.251	27.316	27.452	27.552	27.640
POTENP	12.371	12.372	12.366	12.355	12,306	12.257	12.230	12.210	12.182	12.099	12.068	12.018	11.932	11.733	11.613	11.546	11.517	11.488	11.432	11.319	11.211	10.910	10.609	10.251	9.985	9.180	8.228	7.661	6.918
DO-ML/L	5.91	5.91	5.92	5.93	5.98	5.97	5.96	5.98	5.96	5.90	5.87	5.83	5.78	5.58	5.52	5.43	5.46	5.59	5.55	5.57	5.49	5.26	5.10	4.91	4.72	4.50	4.43	4.52	4.75
SAL-PSU	35.671	35.670	35.671	35.670	35.667	35.658	35.656	35.655	35.653	35.639	35.635	35.628	35.613	35.578	35.561	35.551	35.553	35.550	35.542	35.530	35,513	35.469	35.449	35.414	35.394	35,306	35.287	35.307	35.281
T-DEGC	12,372	12.374	12.372	12.364	12.317	12.271	12.246	12,229	12,203	12.122	12.094	12.046	11.964	11.767	11.649	11.584	11.558	11.532	11.478	11.367	11.262	10.966	10.671	10.317	10.057	9.259	8.314	7.755	7.016
P-DB	10.	20.	* 0 *	•09	80.	100	120.	140.	160.	180.	200.	220.	240.	260.	280.	300.	320.	340.	360.	380.	400•	450.	2 00 .	550.	•009	700.	800.	.006	1000.



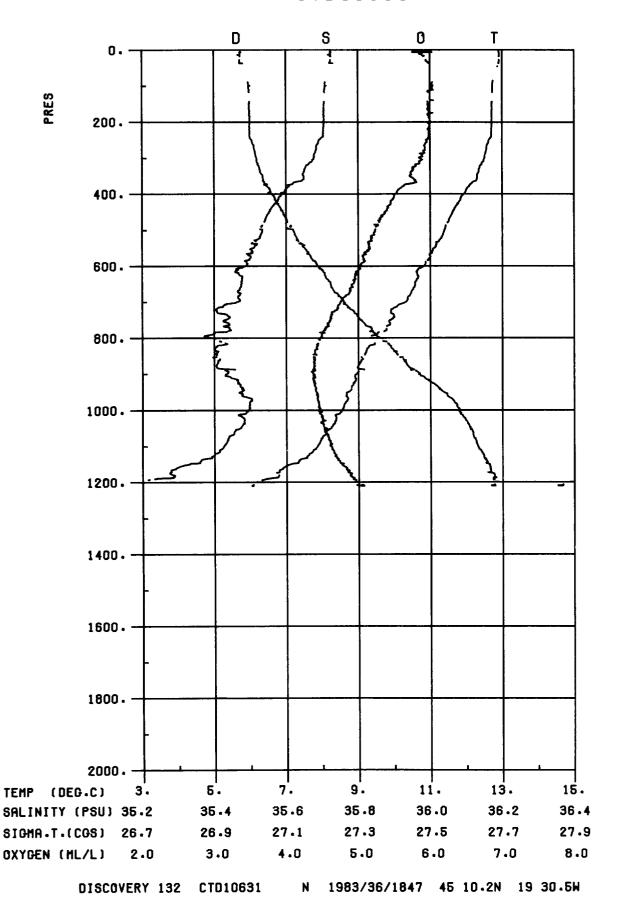
DISCOVERY 132 STATION 10629

BVFR-C/HR	-9.999	-1.131	0.251	-9,999	-9.999	0.347	-0.485	0.859	1.200	1.187	0.710	1.320	1.666	1.152	0.942	0.797	0.740	0.881	999.0	0.579	666*6-	1.484	1.396	1.421	1.476	1.900	-9.999	2.071	1.933	1.590	1.334
	: 03	: 03	: 03	: 01	: 01	03	: 03	03	: 03	03				03	03	03	03	03	03	03	01	03	03		03		01	02		02	0.5
SVANOM	0.1064E	0.1070E	0.1076E	-0.9999E	-0.9999E	0.1092E	0.1099E	0.1100E	0.1098E	0.1095E	0.1098E	0.1093E	0.1082E	0.1080E	0.1080E	0.1082E	0.1084E	0.1085E	0.1088E	0.1092E	-0.9999E	0.1065E	0.1049E	0.1031E	0.1011E	0.9274E	-0.9999E	0.7140E	0.6213E	0.5624E	0.5241E
DEPTH-N	0	20.	* 0 *			99.															396.	446.	495.	545.	594.	693.	٠.	891.		1088.	1187.
SNDV-M/S DEPTH-M	1500.6	1500.9	1501.2	6.666-	6.666-	1502.2	1502.5	1502.8	1502.8	1502.9	1503.2	1503.2	1502.9	1502.8	1503.0	1503.3	1503.5	1503.6	1504.0	1504.2	6*666-	1503.3	1502.9	1503.1	1502.6	1500.3	6*666-	1498.0	1495.7	1493.4	1492.7
DYNHT-H	•0	0.021	0.043	666*6-	-9.999	0.108	0.130	0.152	0.174	0.196	0.217	0.239	0.261	0.283	0.304	0.326	0.348	0.369	0.391	0.413	666.6-	0.488	0.541	0.593	0.644	0.742	666.6-	0.905	0.971	1.030	1.084
SIG2000	35.672	35.668	35.668	-9.999	666.6-	35.671	35.670	35.675	35.688	35.699	35.703	35.718	35.742	35,755	35,762	35.766	35.770	35,778	35,780	35.784	666.6-	35,852	35.893	35,931	35.977	36.122	666.6-	36,433	36.576	36.679	36.747
SIC1000	31.378	31.374	31.374	-9.999	666.6-	31.377	31,375	31,380	31,391	31.401	31.405	31.417	31.438	31,448	31.454	31,458	31.462	31.468	31.471	31.474	666.6-	31,530	31.564	31.598	31.636	31.758	666*6-	32,037	32.156	32,235	32.289
SIGNAT	26.986	26.982	26.982	666.6-	666.6-	26.982	26.980	26.984	26.993	27.001	27.003	27.013	27.030	27.037	27.042	27.045	27.048	27.052	27.054	27.056	666.6-	27.098	27.125	27.154	27.183	27.281	666.6-	27.525	27.621	27.674	27.716
POTEMP	12.853	12.856	12.856	12.857	666.6-	12.844	12.833	12.814	12.729	12.657	12.631	12.537	12,355	12.228	12.194	12.194	12.156	12.082	12.097		666.6-	11.464	11.142	10.938	10.578	664.6	666.6-	7.983	6.959	5.971	5.402
DO-ML/L	6.12	5.83	5.90	5.93	66.6-	5.88	5.90	5.79	5.76	5.79	5.76	5.68	5.64	5.70	5.74	5.82	5.74	99.5	5.79	5.80	-9.99	5.40	5.22	5.09	66.4	79.7	4.45	4.44	4.68	2.00	5.27
SAL-PSU	35.727	35.722	35,723	666.6-	-9.999	35.723	35.718	35.719	35,708	35.701	35.698	35.688	35.663	35.641	35.640	35.645	35.640	35.627	35.634	35,623	666.6-	35.537	35.496	35.486	35.442	35,330	-9.999	35,334	35.266	35.167	35.128
T-DEGC	12.854	12.859	12.862	12.866	666*6-	12.858	12.849	12.833	12.751	12.682	12.658	12.567	12.387	12.263	12,231	12.234	12.199	12.127	12.144	12.095	-9.999	11.522	11.205	11.007	10.652	9.580	-0.999	8.079	7.059	6.073	5.510
P-DB	10.	20.	40.	•09	8 0•	100.	120.	140.	160.	180.	200.	220.	240.	260.	280.	300.	320.	340.	360.	380.	400.	450.	500.	550.	•009	700.	800.	•006	1000.	1100.	1200.



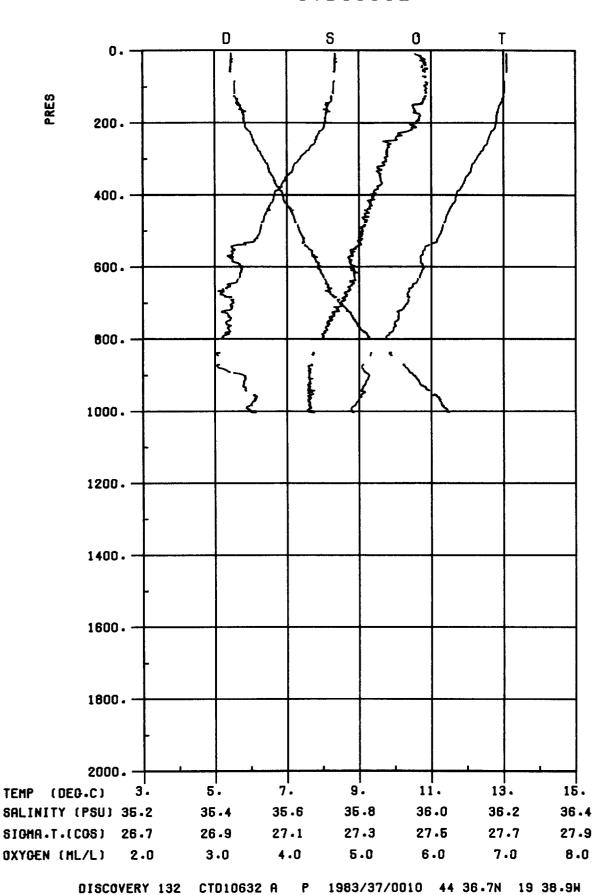
DISCOVERY 132 STATION 10630

BVFR-C/HR	666.6-	0.629	0.502	0.332	0.682	-0.601	0.733	1.755	1.327	0.643	0.778	0.649	0.721	0.722	0.836	1.000	1.049	669.0	1.104	1.388	1.062	1.274	1.393	1.342	1.501	1.520	1.985	1.851	2.049	1.718	1.485
SVANOM BV	0.1064E 03	0.1066E 03	0.1070E 03	0.1076E 03	0.1079E 03	0.1087E 03	0.1089E 03	0.1077E 03	0.1072E 03	0.1075E 03	0.1077E 03	0.1081E 03	0.1083E 03	0.1086E 03	0.1087E 03	0.1087E 03	0.1086E 03	0.1089E 03	0.1087E 03	0.1081E 03	0.1080E 03	0.1069E 03	0.1053E 03	0.1039E 03		0.9737E 02	0.8795E 02	0.7997E 02	0.6962E 02	0.6294E 02	.5819E 02
DEPTH-M		_		_			_	_	159.					258. (297.				377. (396.	446.					792. (891.	989.	1088.	1187.
S/M-VGNS	1500.6	1500.8	1501.1	1501.4	1501.7	1502.1	1502.3	1502.1	1502.0	1502.2	1502.4	1502.6	1503.1	1503.3	1503.2	1503.3	1503.5	1503.8	1503.6	1503.5	1503.6	1503.6	1503.5	1503.5	1503.2	1502.6	1502.0	1502.3	1502.2	1504.0	1494.9
DYNHT-M	0.011	0.021	0.043	0.064	0.086	0.107	0.129	0.151	0.172	0.194	0.215	0.237	0.259	0.280	0.302	0.324	0.345	0.367	0.389	0.411	0.432	0.486	0.539	0.591	0.643	0.743	0.836	0.919	0.994	1.060	1.121
SIG2000	35.673	35.674	35.676	35.677	35.680	35.678	35,683	35.708	35.724	35.727	35,733	35,737	35.739	35.743	35.752	35.761	35.769	35.773	35,785	35.802	35.811	35.845	35.883	35.919	35.965	36.055	36.197	36,315	36,458	36.552	36.675
SIG1000	31.378	31,379	31,381	31.382	31.385	31.382	31.387	31,409	31.422	31.425	31,430	31,433	31,436	31.440	31.446	31.453	31.461	31.464	31.474	31,488	31,496	31.524	31.558	31.589	31.627	31.705	31,833	31.943	32.076	32.170	32.230
SIGMAT	26.985	26.986	26.938	26.988	26.990	26.987	26.990	27.009	27.019	27.021	27.024	27.026	27.029	27.032	27.035	27.040	27.047	27.049	27.055	27.066	27.072	27.095	27.122	27.147	27.178	27.241	27.354	45	27.585	27.662	27.669
POTEMP	12.822	12.820	12,819	12,809	12.804	12.816	12.765	12.603	12.487	12,463	12.413	12,373	12.402	12,383	12.262	12.193	12.158	12.130	11.987	11.862	11.797	11.555	11,306	11.059	10.732	10.122	9.491	9.075	8.586	8.555	5.938
DO-NL/L	5.81	5.79	5.89	5.86	5.84	00.9	5.80	5.73	5.85	5.85	5.83	5.88	5.83	5.93	5.90	5.83	5.78	5.79	5.52	5.40	5.35	5.21	5.14	5.05	66.4	4.74	97.7	4.37	4.48	4.59	5.11
SAL-PSU	35,718	35.719	35.721	35.719	35.721	35,719	35.713	35.696	35.680	35.677	35.669	35.662	35.674	35.673	35.648	35.638	35.638	35,635	35.608	35.591	35.584	35,555	35.532	35.506	35.471	35.415	35.424	35.466	35,523	35.636	35.155
T-DEGC	12.823	12.823	12.824	12.817	12.815	12.820	12.781	12.622	12,508	12.487	12.440	12.402	12.435	12.418	12,300	12.233	12.200	12.176	12.034	11.912	11.850	11.613	11.370	11.128	10.807	10.207	9.585	9.178	8.698	8.679	6.051
P-DB	10.	20.	* 0 *	•09	80.	100.	120.	140.	160.	180.	200.	220.	240.	260.	280.	300.	320.	340.	360.	380.	400.	450.	500.	550.	• 009	700.	800.	•006	1000.	1100.	1200.



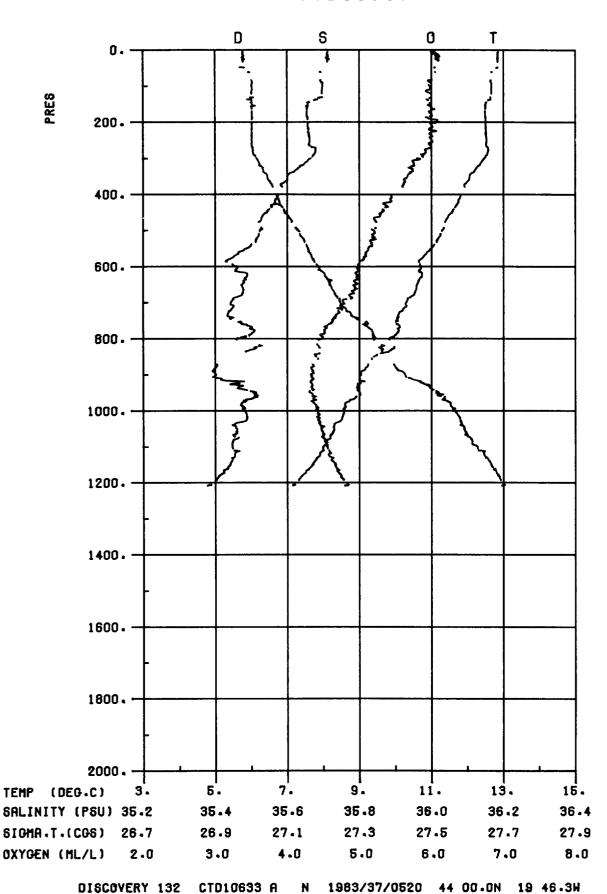
DISCOVERY 132 STATION 10631

BVFR-C/HR	666.6-	0.462	-9.999	0.413	-9.999	1.396	0.338	0.439	0.377	0.432	0.317	0.300	0.347	1.205	1.047	0.922	1.050	0.957	1.205	1.500	1.450	1.473	1.428	1.509	1,590	1.604	1.867	1.976	1.949	1.473	1.755
SVANOM BV	0.1077E 03	.1079E 03	-0.9999F 01	0.1089E 03	-0.9999E 01	0.1078E 03	0.1083E 03	0.1088E 03	0.1092E 03	0.1097E 03	0.1102E 03	0.1108E 03	0.1113E 03	0.1110E 03	0.1109E 03	0.1110E 03	0.1109E 03	0.1109E 03	0.1106E 03	0.1098E 03	0.1091E 03	0.1072E 03	0.1055E 03	0.1034E 03	0.1009E 03		0.8760E 02	0.7815E 02	0.6895E 02	ш	0.5707E 02
	10. 0	20.0	400						159. 0							297. 0			357. 0		396. 0	446. 0	495. 0	545. 0	594. 0		792. 0	891. 0	989. 0		
SNDV-M/S DEPTH-M	1500.9	1501.1	6.666-	1501.6	6.666-	1501.8	1502.1	1502.4	1502.7	1503.0	1503.3	1503.7	1504.0	1504.0	1504.1	1504.3	1504.2	1504.4	1504.5	1504.0	1503.9	1503.6	1503.6	1503.4	1503.2	1503.1	1501.4	1501.3	1501.6	1500.6	1495.4
DYNHT-M S	0.011	0.022	666.6-	0.065	666.6-	0.108	0.130	0.151	0.173	0.195	0.217	0.239	0.261	0.284	908.0	0.328	0.350	0.372	0.394	0.416	0.438	0.492	0.546	0.598	0.649	0.747	0.839	0.922	0.994	1.061	1.122
SIG2000	35,656	35.656	666.6-	35.660	666.6-	35.691	35.692	35.693	35.694	35.696	35.697	35.697	35.698	35.711	35.720	35.727	35.738	35.746	35.757	35.779	35,796	35.841	35.881	35.926	35.974	36.070	36.205	36,340	36.469	36.553	36.685
SIG1000	31,363	31,363	666*6-	31,366	666.6-	31.394	31,395	31.396	31.397	31.398	31,399	31.400	31.401	31.411	31.419	31.425	31.434	31.440	31.450	31.467	31.482	31.521	31,555	31.594	31.637	31.722	31.838	31,963	32,083	32,151	32.243
SIGMAT	26.972	26.972	666*6-	666*6-	666.6-	26.997	26.997	26.997	26.998	26.998	26.999	26.999	26.999	27.007	27.013	27.018	27.023	27.028	27.037	27.049	27.061	27.091	27.120	27.152	27.188	27.261	27,361	27,469	27.580	27.632	27.684
POTEMP	12.911	12,911	666*6-	12,867	666.6-	12.718	12,707	12.695	12.690	12.683	12.679	12.672	12,666	12.566	12.509	12.462	12,351	12.292	12.235	12,013	11,880	11.564	11,325	11.032	10,745	10.230	9.325	8.831	8.428	7.730	6.054
1/TM-00	5.87	5.90	-9.99	00*9	-9.99	6.03	6.02	6.01	5.98	5.97	5.98	5.97	5.98	5.94	5.92	5.85	5.80	5.73	5.79	5.62	5.51	5.37	5.23	5.15	5.01	4.75	4.47	4.38	4.45	4.62	66.4
SAL-PSU	35.724	35.724	-9.999	35.715	666.6-	35.709	35.707	35.705	35.705	35.705	35.704	35.703	35.703	35.688	35.682	35.677	35.657	35.649	35.646	35.607	35,589	35.553	35.534	35.507	35.487	35.465	35,390	35.434	35.495	35.426	35.194
T-DEGC	12.913	12.914	-9,999	12.875	-9.999	12.732	12.724	12.714	12.712	12,707	12,706	12,703	12.699	12.601	12.547	12.503	12.394	12.338	12,284	12.063	11.933	11.622	11,390	11.102	10.820	10.315	9.418	8.933	8.539	7.847	6.168
P-DB	10.	20.	40.	. 09	80.	100.	120.	140.	160.	180.	200.	220.	240.	260.	280.	300.	320.	340.	360.	380.	400.	450.	500.	550.	•009	700.	800.	.006	1000.	1100.	1200.



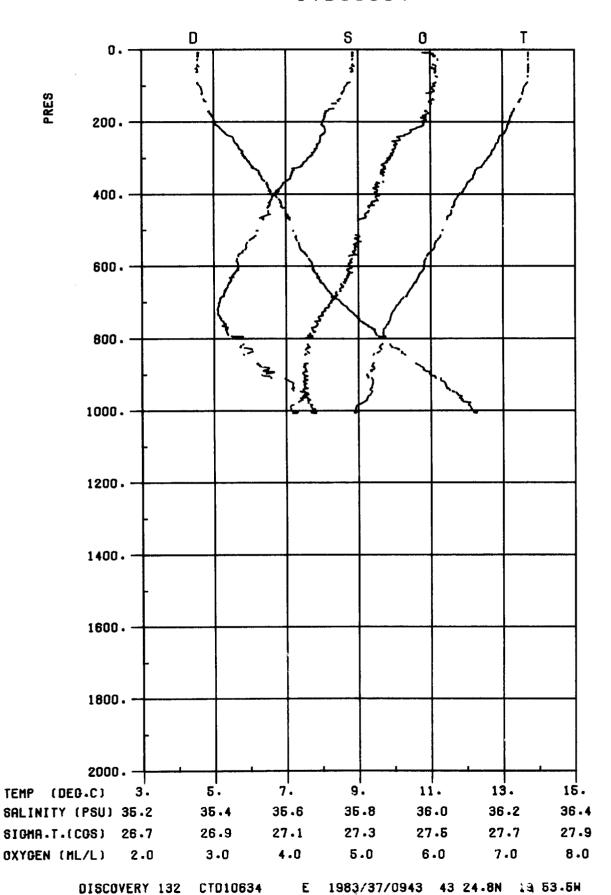
DISCOVERY 132 STATION 10632

BVFR-C/HR	-9.999 0.341	-0.383	-0.289	-9,999	0.993	0.414	1.055	1.438	1.072	0.708	1.188	1.475	1.113	1.562	1.368	1,475	1.146	1.368	1.403	1.416	1.382	1.193	1.431	1.337	1.458	-9.999	1.883	1.819
SVANOM B	0.1102E 03 0.1105E 03	0.1112E 03	0.1119E 03	-0.9999E 01	0.1119E 03	0.1124E 03	0.1123E 03	0.1116E 03	0.1115E 03	0.1118E 03	0.1116E 03		0.1107E 03	0.1098E 03	0.1092E 03	0.1085E 03	0.1082E 03	0.1077E 03	0.1070E 03	0.1064E 03	0.1049E 03	0.1041E 03	0.1023E 03	0.1009E 03	0.9697E 02	-0.9999E U1	0.8046E 02	0.7277E 02
DEPTH-M	10.			•																		495.				1		
SNDV-M/S DEPTH-M	1501.5	1502.0	1502.3	6.666-	1502.8	1503.1	1503.2	1503.2	1503.4	1503.6	1503.7	1503.6	1503.7	1503.5	1503.4	1503.2	1503.3	1503.2	1503.2	1503.0	1503.0	1503.2	1502.3	1503.0	1503.1	6.666-	1502.6	1502.5
DYNHT-M	0.011	0.044	0.067	-9.999	0.111	0.134	0.156	0.179	0.201	0.223	0.246	0.268	0.290	0.312	0.334	0.356	0.377	0.399	0.420	0.442	0.495	0.547	0.599	0.649	0.749	-9.999	0.927	1.004
SIG2000	35.622 35.623	35.622	35.621	-9.999	35.637	35.638	35.647	35.664	35.673	35.677	35.689	35,707	35.717	35.738	35.754	35.773	35.784	35.800	35.816	35.833	35.871	35.899	35.946	35.976	36.056	666.6-	36,308	36,423
SIG1000	31,333	31,332	31,331	666.6-	31,345	31.346	31,355	31,369	31,378	31,381	31,391	31,407	31.416	31.434	31.447	31,463	31.473	31.486	31.500	31.514	31.547	31.572	31,609	31.638	31,708	-9.999	31.937	32.043
SIGMAT	26.945	26.944	26.943	-9.999	26.954	26.955	26.961	26.973	26.980	26.982	26.990	27.003	27.010	27.024	27.035	27.047	27.055	27.065	27.076	27.088	27.115	27.134	27.161	27.187	27.247	-9,999	27.451	27.544
POTEMP	13.080 13.078	13.082	13.080	-9.999	13,006	13.000	12.942	12.836	12.784	12,759	12.689	12.565	12.493	12, 337	12,209	12.074	11.993	11.872	11.773	11.639	11.394	11.212	10.744	10.687	10.240	-9.999	9.15/	8.676
DO-ML/L	5.78	5.92	5.90	-9.99	5.91	5.92	5.89	5.76	5.85	5.79	5.73	5.52	5.43	5.38	5.36	5.32	5.28	5.30	5.25	5.18	5.12	5.04	4.93	4.91	4.75	66*6-	4.30	4.32
SAL-PSU	35.733 35.733	35.733	35.732	666.6-	35.728	35.728	35.722	35.711	35.706	35.704	35.697	35.682	35.674	35.653	35.635	35.618	35.608	35,592	35.583	35,565	35.542	35.525	35.450	35.473	35.449	-9.999	35.478	35.500
T-DEGC	13.081 13.081	13.087	13.088	-9.999	13.020	13.016	12,962	12.858	12.809	12,786	12,719	12.597	12.529	12.374	12.249	12.117	12,038	11.920	11.823	11.691	11.452	11.275	10.813	10.762	10.325	-9.999	9.261	8.788
P-DB	10.	* 0 *	•09	80.	100.	120.	140.	160.	180.	200.	220.	240.	260.	230.	300.	320.	340.	360.	380.	400•	450.	500.	550.	•009	. 00/	800.	900.	1000.



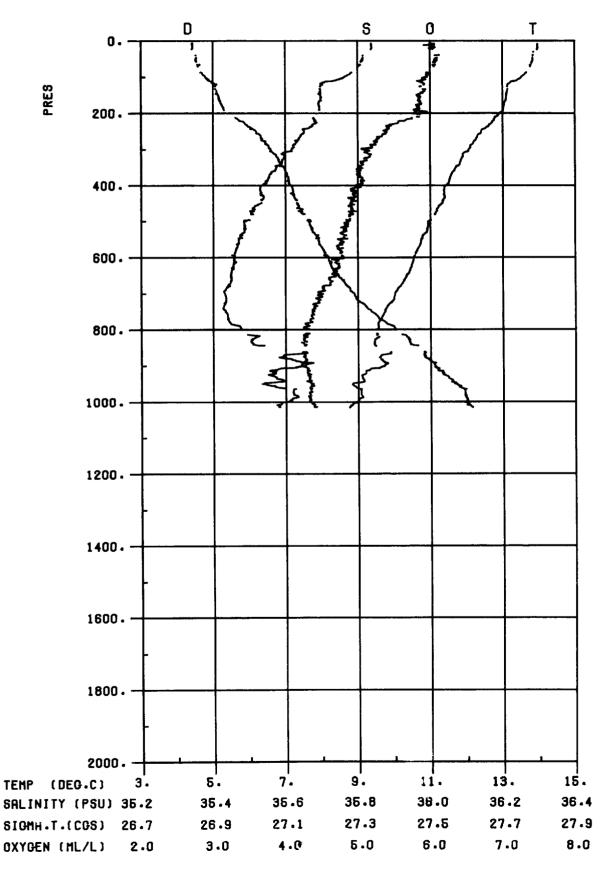
DISCOVERY 132 STATION 10633

BVFR-C/HR	-9.999	0.352	-0.163	1.724	-9.999	0.810	0.228	-0.403	0.759	0.049	0.341	0.139	0.197	0.251	0.798	1.348	1.237	1.470	1.419	1.472	-9.999	1,309	1.576	1.438	1.440	1.475	1.805	1.779	2.154	1.577	1.775
	03	03	03	03	01	03	03		03	03		03			_		_		03		01				03				0.5		0.5
SVANOM	0.1072E	0.1075E	0.1081E	0.1069E	-0.9999E	0.1073E	0.1078E	0.1085E	0.1087E	0.1093E	0.1098E	0.1104E	0.1109E	0.1115E	0.1116E	0.1111E	0.1108E	0.1101E	0.1094E	0.1087E	-0.9999E	0.1070E	0.1046E	0.1028E	0.1009E	0.9690E	0.8955E	0.8235E	0.7066E	0.6526E	0.5777E
DEPTH-M	10.	20.	* 0 *	•09		.66	119.	139.	159.	178.	198.	218.	238.	258.	278.	297.	317.	337.	357.	377.	396.	446.	495.	545.	594.	693.	792.	891.	990	1088.	1187.
SNDV-M/S DEPTH-M	1500.7	1500.8	1501.2	1500.9	6.666-	1501.5	1501.9	1502.0	1501.9	1502.2	1502.6	1503.0	1503.3	1503.7	1504.2	1504.1	1504.0	1503.7	1503.6	1503.5	6.666-	1503.4	1503.3	1503.0	1502.8	1503.0	1503.0	1501.7	1501.7	1501.2	1499.8
DYNHT-M	0.011	0.021	0.043	0.065	-9.999	0.107	0.129	0.150	0.172	0.194	0.216	0.238	0.260	0.282	0.305	0.327	0.349	0.371	0.393	0.415	-9.999	0.490	0.543	0.595	0.646	0.745	0.838	0.924	0.999	1.068	1.130
SIG2000	35.664	35.664	35.664	35.689	-9.999	35.698	35.699	35.700	35.708	35,708	35.709	35.709	35,709	35,709	35.711	35.727	35.741	35.761	35.777	35.795	666.6-	35.845	35.893	35,935	35.977	36.058	36.173	36.293	36.450	36.542	36.656
SIG1000	31.369	31.370	31,370	31.392	-9.999	31.400	31,401	31.401	31.406	31.406	31.407	31,407	31,407	31.408	31.411	31.424	31.436	31.452	31.466	31,481	666.6-	31.524	31.566	31.602	31.638	31,709	31.815	31.918	32.065	32.143	32.240
SIGMAT	26.977	26.977	26.976	26.995	666.6-	27.002	27.002	27.000	27.003	27.002	27.002	27.002	27.002	27.002	27.005	27.016	27.024	27.036	27.047	27.060	666.6-	27.093	27.129	27.157	27.186	27.247	27.342	27.426	27.563	27.627	27.700
POTEMP	12.840	12.839	12.834	12.669	12.654	12.652	12.644	12.583	12.475	12.469	12.477	12.482	12.488	12.486	12.536	12.420	12.281	12.111	11.997	11.871	666.6-	11.516	11.238	10.925	10.622	10.211	9.743	8.940	8.463	7.875	7.096
DO-ML/L	6.05	60.9	90.9	6.05	66.6-	5.97	5.98	5.95	00.9	00.9	90•9	5.97	6.01	5.97	5.92	5.82	5.76	5.71	5.62	2.60	-9.99	5.31	5.19	5.12	66.4	4.78	64.4	4.33	4.42	4.55	4.80
SAL-PSU	35.712	35.712	35.710	35.692	-9.999	35.698	35.696	35.679	35.656	35.655	35.657	35.659	35,661	35.661	35.679	35.664	35.640	35,613	35.600	35.586	-9.999	35.544	35.524	35.488	35,455	35,443	35,463	35.401	35.480	35.447	35.403
T-DEGC	12.842	12.841	12.840	12.678	12.664	12.665	12.660	12.602	12.497	12,493	12,503	12.511	12.520	12.521	12.574	12,461	12.324	12.156	12.045	11.921	-9.999	11.574	11,302	10.994	10.697	10.296	6886	9.042	8.575	7.993	7.219
P-DB	10.	20.	* 0 *	•09	80.	100	120.	140.	160.	180.	200.	220.	240.	260.	280.	300.	320.	340.	360.	380.	* 00 *	450.	500.	550.	•009	700.	800.	.006	1000.	1100.	1200.



DISCOVERY 132 STATION 10634

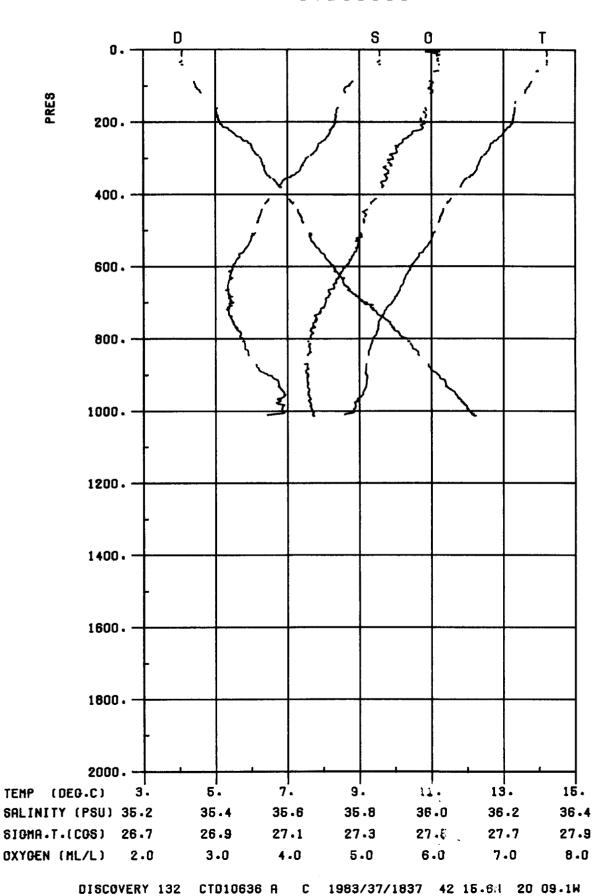
BVFR-C/HR	666*6-	0.470	-0.313	0.049	-0.392	1.176	1.086	1.026	-9.999	1.293	1.239	1.787	2.161	1.546	1.595	1.360	1.609	1.918	1.437	1.487	1.746	1.490	1.227	1.198	1.564	1.677	2.025	2.080	1.975
ВУ	03	03	03	03	03	03	03	03	0.1	03	03	03	03	03	03	03	03	03	03	03	03	03	03	03	03	02	02	02	02
SVANOM	0.1187E	0.1189E	0.1196E	0.1202E	0.1209E	0.1207E	0.1206E	0.1206E	-0.9999E	0.1198E	0.1195E	0.1182E	0.1160E	0.1151E	0.1142E	0.1137E	0.1127E	0.1111E	0.1104E	0.1096E	0.1083E	0.1064E	0.1054E	0.1046E	0.1022E	0.9624E	0.8635E	0.7571E	0.6629E
DEPTH-M	10.	20.	40.	. 09	79.	96	119.	139.	•	178.	198.	218.	238.	258.	278.	297.	317.	337.	357.	377.	396.	446.	495.	545.	594.	693.	792.	891.	.066
SNDV-M/S DEPTH-M	1503.6	1503.8	1504.1	1504.4	1504.7	1504.8	1504.8	1504.9	6.666-	1504.8	1504.9	1505.0	1504.7	1504.7	1504.7	1504.5	1504.4	1503.9	1503.9	1503.7	1503.4	1503.4	1503.4	1503.4	1503.2	1502.4	1502.6	1502.5	1503.1
DYNHT-M	0.012	0.024	0.048	0.072	960.0	0.120	0.144	0.168	-9.999	0.216	0.240	0.264	0.287	0.310	0.333	0.356	0.379	0.401	0.423	0.445	0.467	0.521	0.574	0.626	0.678	0.778	0.869	0.950	1.021
SIG2000	35.509	35.510	35,509	35.509	35,509	35.521	35.531	35.541	-9,999	35,570	35.583	35.605	35.641	35.660	35,680	35.696	35.718	35.748	35.765	35.784	35.809	35.852	35,883	35,913	35.961	36.069	36.210	36.359	36.489
SIC1000	31.231	31.232	31.231	31.231	31.231	31.241	31.250	31.258	-9.999	31.283	31.294	31,315	31,348	31.364	31,382	31,396	31.414	31.440	31,455	31.471	31.492	31.530	31.557	31.582	31.623	31.717	31.849	31.988	32.112
SIGNAT	26.856	26.857	26.855	26.855	26.853	26.861	26.868	26.874	666.6-	26.893	26.902	26.922	26.950	26.964	26.979	26.989	27.005	27.026	27.038	27.050	27.068	27,100	27.120	27.139	27.174	27.252	27.374	27.501	27.617
POTEMP	13.707	13,704	13,706	13,702	13.687	13.602	13.525	13.452	13,351	13.218	13.141	13.073	12.882	12.787	12.673	12.538	12,395	12.175	12,069	11.923	11.745	11.511	11.263	11.024	10.737	10.054	9.629	9.116	8.791
DO-ML/L	96*5	90•9	6.04	6.07	6.07	6.05	5.98	6.02	5.92	5.92	5.89	5.77	5.59	5.53	5.48	5.42	5.34	5.34	66.6-	5.26	5.27	5.13	5.02	4.95	4.89	4.62	4.28	4.26	4.38
SAL-PSU	35.785	35.785	35.785	35.784	35.779	35.767	35.756	35.744	666.6-	35.709	35,701	35,708	35.696	35.690	35.681	35.660	35.644	35.616	35.606	35.586	35.565	35.551	35.519	35.488	35.467	35.414	35.479	35.534	35.616
T-DEGC	13.708	13.707	13.712	13.710	13.699	13.616	13.542	13.472	13,375	13.243	13,169	13,103	12.915	12.822	12.712	12.578	12,438	12,220	12.11/	11.974	11.798	11.569	11.327	11.094	10.812	10.138	9.723	9.220	8.905
P-DB	10.	20.	40.	•09	80.	100.	120.	140.	160.	180.	200.	220.	240.	260.	280.	300.	320.	340.	360.	380.	400.	450.	500.	550.	•009	700.	800.	.006	1000.



DISCOVERY 132 CTD10635 E 1983/37/1409 42 50.4N 20 02.5W

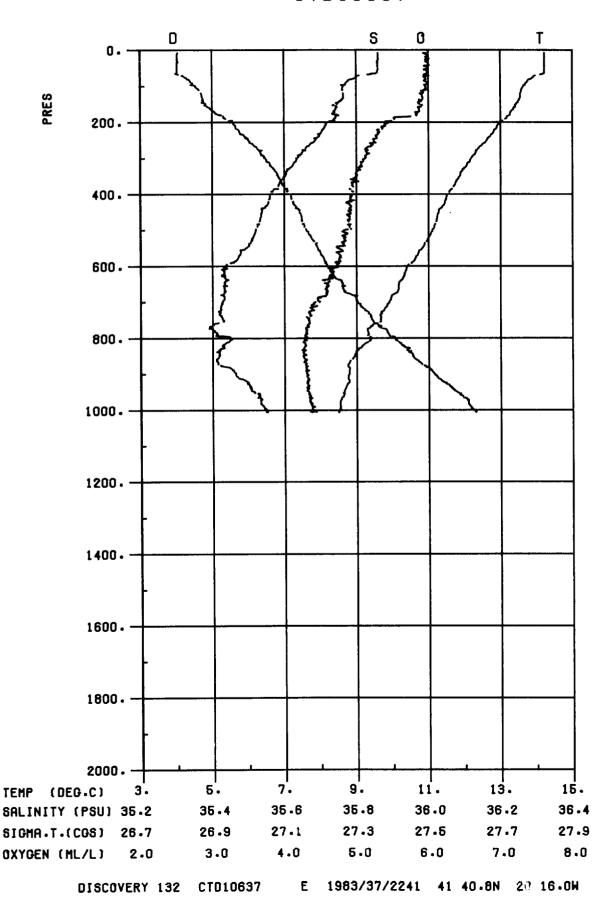
DISCOVERY 132 STATION 10635

BVFR-C/HR	966.6-	1.219	0.816	-9.999	1.409	2.106	0.870	1.066	1.284	1.642	2.238	2.264	1.722	1,903	1.578	1.769	1.326	1.573	1.260	1.045	1.160	1.519	1,306	1.436	1.591	1.968	1.834	1.806
×	03	03	03	01	03	03	03	03	03	_	_		_	03	03	03	03	03	03	03	03	03	02	05	05	02	05	02
SVANOM	0.1200E	0.1200E	0.1202E	-0.9999E	0.1191E	0.1170E	0.1172E	0.1171E	0.1167E	0.1157E	0.1132E	0.1108E	0.1095E	0.1079E	0.1070E	0.1057E	0.1052E	0.1042E	0.1038E	0.1037E	0.1030E	0.1009E	0.9957E	0.9773E	0.9258E	0.8335E	0.7562E	0.6815E
DEPTH-M	10.	•0 - 7	. 09	•	.66	119.	139.	159.	178.		218.			278.	297.	317.	337.	357.	377.	396.	446.	495.	545.	594.	693.	792.	891.	.066
SNDV-M/S DEPTH-M	1504.5	1504.5	1504.8	6.666-	1504.4	1503.5	1503.7	1503.9	1504.1	1504.0	1503.8	1503.4	1503.1	1502.8	1502.7	1502.4	1502.5	1502.3	1502.2	1502.1	1502.5	1502.0	1502.1	1502.2	1501.9	1502.0	1504.5	1503.3
DYNHT-M	0.012	0.048	0.072	-9.999	0.120	0.144	0.167	0.191	0.214	0.237	0.260	0.282	0.304	0.326	0.348	0.369	0.390	0.411	0.432	0.452	0.504	0.555	0.605	0.655	0.751	0.839	0.918	0.989
SIG2000	35.485	35.501	35.506	666.6-	35.542	35.584	35.591	35.599	35.612	35,633	35.670	35.710	35,735	35.764	35.784	35.810	35.824	35.845	35.859	35.870	35.895	35.943	35.977	36.016	36.112	36.246	36.347	36.468
SIG1000	31.212	31.225	31,230	666.6-	31,260	31.295	31,301	31,308	31.320	31,339	31,373	31.409	31,430	31.456	31.473	31.496	31.508	31.526	31.538	31.546	31,569	31,609	31,638	31.673	31,757	31.882	•	32.092
SIGMAT	26.842	26.852	26.855	666*6-	26.879	26.905	26.910	26.916	26.926	26.943	26.972	27.004	27.021	27.043	27.057	27.075	27.085	27.100	27.108	27.114	27.133	27.165	27.189	27.218	27.289	27,403	27.511	27.598
РОТЕМР	13.963	13.828	ε,	666.6-	13.501	13.130	(س	13.063	12,997	12.884	12,713	12,500	12,336	12.150	12,029	11.848	11.758	11,605	11.485	1	$\overline{}$	$\mathbf{\mathcal{C}}$	\sim	\sim	9.916	9.450	9.615	8.837
DO-ML/L	6.00	90.09	90•9	6.01	5.93	5.91	5.90	5.84	5.83	5.84	5.62	5.42	5.37	5.23	5.09	5.16	5.05	5.01	5.05	4.99	4.90	4.86	4.78	4.78	4.48	• 2	4.22	4.35
SAL-PSU	35.837	35.813	35.810	-9.999	35.762	35.699	35.695	35.697	35.693	35.684	35.680	35.666	35.648	35.629	35.619	35.598	35.589	35.571	35.553	35,537	35.532	35.488	35.471	35.458	35,431	35.478	35.654	35.601
T-DEGC	13.965	13.834	13.804	666.6-	13.515	13.147	13.112	13.085	13.022	12.911	12.744	12.532	12.371	12.188	12.069	11.890	11.802	11.651	11.534	11.434	11.312	10.953	10.746	10.526	666.6	9.543	9.722	8.951
P-DB	10.	4 0.	.09	80.	100.	120.	140.	160.	180.	200.	220.	240.	260.	280.	300.	320.	340.	360.	380.	400	450.	500.	550.	•009	700.	800.	•006	1000.



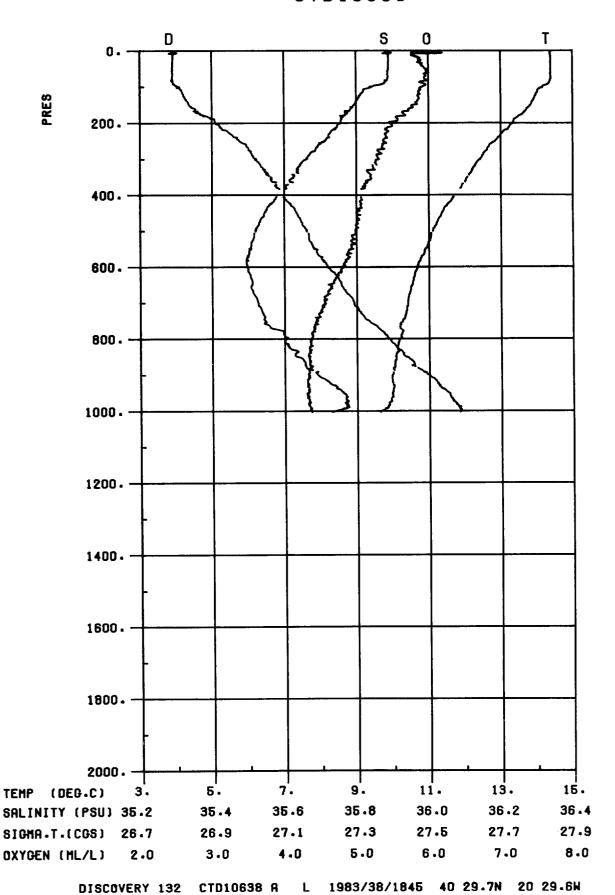
DISCOVERY 132 STATION 10636

BVFR-C/HR	-9,999	0.504	-0.085	1.518	666.6-	1.436	1.553	-9,999	1.904	0.625	1.004	2.056	2.136	2,306	1.335	1.813	1.124	1.081	2.070	1.583	666.6-	1.616	1.318	1.485	1.745	1.738	1.991	1.703	1.737
æ	03	03	03	03	01	03	03	01	03	03	03	03	03	03	03	03	03	03	03	03	01	03	03	02	02	02	02	02	0.2
SVANOM	0.1234E	0.1236E	0.1242E	0.1235E	-0.9999E	0.1223E	0.1214E	-0.9999E	0.1183E	0.1187E	0.1187E	0.1167E	0.1146E	0.1120E	0.1115E	0.1101E	0.1099E	0.1098E	0.1078E	0.1068E	-0.9999E			0.9990E					
DEPTII-N	10.	20.	. 04		_	_	_	_	_	179.	198.	218.	238.	258.	278.	297.	317.	337.	357.	377.	396.	446.	495.	545.	594.	693.	792.	891.	•066
SNDV-11/S DEPTII-M	1505.3	1505.4	1505.8	1505.2	6.666-	1505.1	1505.0	6.666-	1504.7	1504.9	1505.2	1504.9	1504.7	1504.1	1504.2	1503.8	1503.8	1503.8	1503.2	1503.1	6*666-	1502.5	1502.5	1502.4	1501.8	1501.5	1501.3	1502.4	1502.8
DYNHT-M	0.012	0.025	0.049	0.074	-9.999	0.123	0.148	666*6-	0.196	0.219	0.243	0.267	0.290	0.312	0.335	0.357	0.379	0.401	0.423	7770	666.6-	0.518	0.569	0.619	0.668	0.762	0.848	0.925	966.0
SIG2000	35.441	35.442	35.442	35.467	-9.999	35,501	35.521	-9.999	35.578	35.581	35.589	35.621	35.657	35.699	35.713	35.741	35.752	35.762	35.799	35.819	-9.999	35.893	35.928	35.971	36.031	36.142	36.282	36.378	36.481
SIG1000	31.173	31.173	31.173	31.193	-9,999	31.223	31,241	-9.999	31.292	31.294	31,301	31,331	31,362	31.400	31.413	31,436	31.446	31.454	31.485	31.502	666.6-	31.567	31,596	31.634	31.686	31./86	31.914	32.006	32.102
SIGMAT	26.807	26.808	26.807	26.823	-9.999	26.845	26.859	-9.999	26.904	26.906	26.911	26.937	26.964	26.996	27.007	27.026	27.033	27.039	27.064	27.079	-9.999	27.131	27.155	27.186	27.229	27.316	27.430	27.519	27.605
POTEMP	14.196	14.194	14.191	13,928	666.6-	13.696	13.578	666.6-	13.280	,3.253	13.218	13.045	12.865	12.614	12.524	12.321	12.237	12.148	11.863	11.750	11.502	11.241	11.025	10.745	10.346	9.813	9.270	080.6	8.720
1/TM-00				6.07				'											5.37			- '				4.	4•	4.28	4
SAL-PSU	35.855	35.856	35.855	35.801	-9.999	35.771	35.759	-9.999	35.738	35.734	35.733	35.721	35.710	35.687	35.678	35.652	35.640	35.627	35.588	35.580	-9.999	35.526	35.507	35.483	35.447	35.442	35.475	35.549	35.587
T-DEGC	14.197	14.197	14.197	13,937	-9.999	13.710	13.595	666*6-	13,303	13.278	13.246	13,075	12.899	12.649	12,562	12.361	12.280	12,193	11.910	11.800	11.554	11.298	11.088	10.814	10.419	9.897	•	9.184	8.833
P-DE	10.	20.	40.	•09	80.	100.	120.	140.	160.	180.	200.	220.	240.	260.	280.	300.	320.	340.	360.	380.	400•	450.	500.	550.	•009	700	800.	.006	1000.



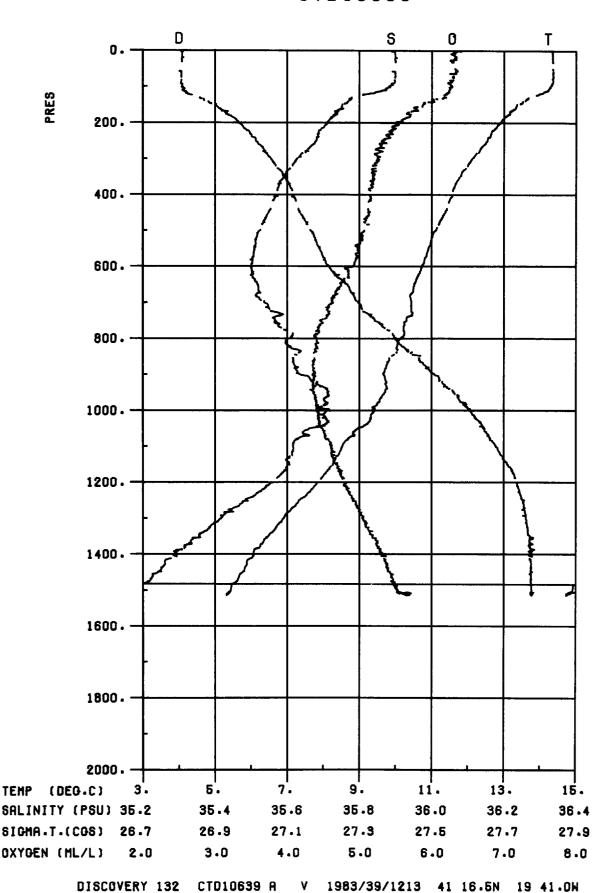
DISCOVERY 132 STATION 10637

BVFR-C/HR	-9.999	-0.542	0.228	0.085	2.212	1.853	1.679	0.953	1.595	2.121	2.276	1.977	1.824	1.732	1.986	1.563	1.576	1.704	1.378	1.130	666.6-	1.512	1.169	1.504	1.410	1.710	1.892	1.964	1.926
SVANOM BV	0.1236E 03	0.1240E 03	0.1246E 03	0.1253E 03	0.1230E 03		0.1204E 03	0.1205E 03	0.1196E 03	0.1175E 03	0.1150E 03	0.1132E 03	0.1118E 03						0.1052E 03	0.1050E 03		0.1021E 03	0.1013E 03	0.9922E 02	0.9749E 02	0.9115E 02	0.8276E 02		0.6450E 02
	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.10	0.1	0.10	0.1	0.1	-0.9999E	0.10	0.1	6.0	0.9	0.9	0.8	0.7	79.0
рертн-м	10.	20.	40.	•09	79.	96	119.	139.	159.	179.	198.	218.	238.	258.	278.	297.	317.	337.	357.	377.	396.	446.	495.	545.	594.	693.	792.	891.	.066
DYNHT-M SNDV-M/S DEPTH-M	1505.4	1505.6	1505.9	1506.2	1505.2	1504.8	1504.9	1505.1	1505.0	1504.9	1504.4	1504.1	1504.0	1503.7	1503.3	1503.1	1503.0	1502.8	1502.7	1502.7	6.666-	1502.4	1502.6	1502.4	1501.7	1501.6	1501.4	1500.8	1501.6
DYNHT-M	0.012	0.025	0.050	0.075	660.0	0.124	0.148	0.172	0.196	0.220	0.243	0.266	0.289	0.311	0.333	0.354	0.376	0.397	0.418	0.439	-9,999	0.512	0.563	0.613	0.662	0.756	0.844	0.922	066.0
SIG2000	35.437	35.436	35.437	35.437	35.483	35.512	35.533	35.540	35.561	35.594	35.636	35.667	35.693	35.718	35.750	35.770	35.791	35.814	35.830	35.841	666.6-	35,906	35.933	35.978	36.022	36.129	36.256	36,393	36.517
SIG1000	31,169	31,168	31,169	31.169	31.207	31.232	31.252	31.258	31.276	31,307	31,344	31.371	31,395	31.416	31.444	31.462	31.480	31,500	31.514	31.523	666.6-	31.579	31.602	31.641	31.677	31,773	31.889	32.013	32,131
SIGMAT	26.804	26.803	26.803	26.802	26.832	26.853	26.870	26.875	26.890	26.919	26.949	26.973	26.993	27.010	27.034	27.048	27.063	27.079	27.090	27.097	666.6-	27.143	27.162	27.193	27.219	27.303	27.407	27.517	27.627
POTEMP	14.228	14.233	14.226	14.223	13.822	13.626	13.542	13.491	13,368	13.227	12,979	12,809	12.664	12,487	12.283	12.141	12.013	11.849	11.736	11.648	Ġ.	11.223	_;	10.748	10.334	9.821	9.296	8.685	8.397
DO-ML/L	5.96	5.98	6.01	5.99	5.97	96.5	5.91	5.89	5.87	5.84	5.41	5.31	5.28	5.20	5.14	5.11	5.07	66.4	96.4	4.95	66.6-	4.91	4.84	4.75	4.73	97.7	4.29	4.31	4.39
SAL-PSU	35.861	35.861	35.859	35.859	35.788	35.763	35.763	35.756	35.744	35.743	35.719	35.706	35.695	35,673	35.652	35.635	35.622	35.604	35.591	35.579	-9.999	35.537	35,520	35.493	35,432	35.428	35.449	35.464	35.549
T-DEGC	14.229	14.236	14.232	14.232	13.834	13.640	13.559	13.511	13.391	13.252	13,007	12.839	12.697	12.522	12.321	12.181	12.055	11.894	11.784	11.697	-9.999	11.281	11.107	10.817	10.407	9.904	9.389	8.785	8.507
P-DB	10.	20.	* 0 *	•09	80.	100.	120.	140.	160.	180.	200.	220.	240.	260.	280.	300.	320.	340.	360.	380.	. 00 .	450.	500.	550.	_		800.	•006	1000.



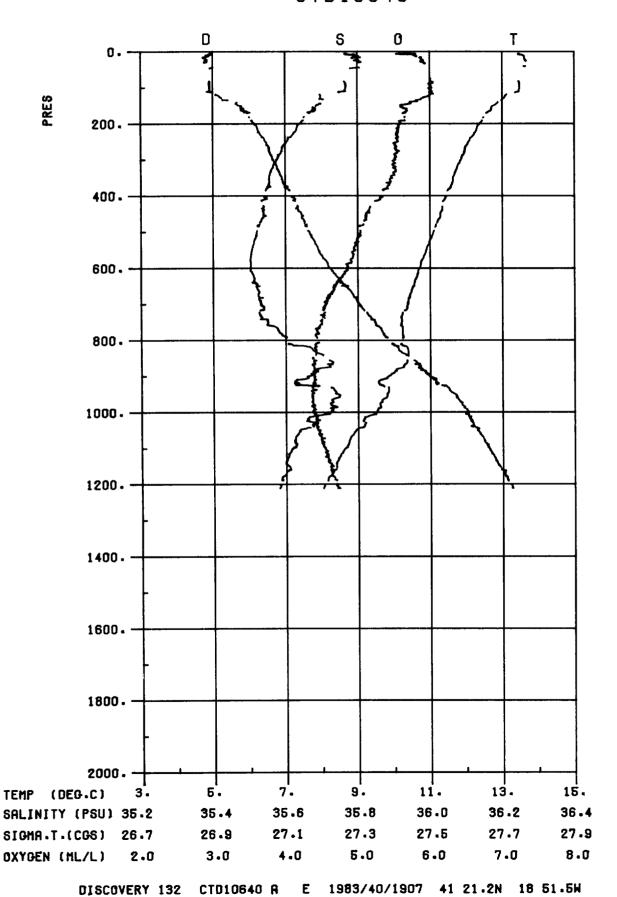
DISCOVERY 132 STATION 10638

BVFR-C/IIR	-9.999	-0.807	-0.163	0.215	0.392	1.394	1.757	1.354	1.843	2.179	2.195	2.118	2,208	2.157	1.567	1.444	1.622	1.945	1.059	1.709	666.6-	1.631	1.400	1.337	1.522	1.575	1.805	1.884	1.748
BV	03	03	03	03	03	03	03	03	03	03	03	03	03	03	03	03	03	03	03	03	01	03	03	0.5	02	02	02	02	0.2
SVANOM	0.1246E	0.1252E	0.1258E	0.1264E	0.1270E	0.1265E	0.1252E	0.1248E	0.1234E	0.1211E	0.1188E	0.1168E	0.1144E		0.1113E	0.1107E	0.1096E	0.1079E	0.1078E	0.1066E	-0.9999E	0.1029E	0.1013E			0.9279E	0.8550E	0.7731E	0.7055E
DEPTH-M	10.	20.	40.	•09	79.	99.	119.	139.	159.	179.	198.	218.	238.	258.	278.	297.	317.	337.	357.	377.	•	446.	496.	545.	595.	693.	792.	891.	.066
SNDV-M/S DEPTH-M	1505.9	1506.1	1506.4	1506.8	1507.1	1506.7	1506.3	1506.4	1506.2	1505.8	1505.5	1505.1	1504.8	1504.3	1504.2	1504.0	1503.8	1503.7	1503.6	1503.4	6*666-	1502.7	1502.6	1502.7	1502.8	1503.5	1504.5	1505.4	1506.0
DYNHT-M	0.012	0.025	0.050	0.075	0.101	0.126	0.151	0.176	0.201	0.226	0.249	0.273	0.296	0.319	0.341	0.363	0.385	0.407	0.429	0.450	666.6-	0.524	0.575	0.625	0.675	0.770	0.859	0.941	1.015
SIG2000	35.420	35.418	35.418	35,418	35.420	35,440	35.467	35.482	35.509	35.547	35.584	35.619	35.657	35.695	35.715	35.733	35.755	35,783	35.795	35.818	-9.999	35.894	35.934	35.968	36.011	36.098	36,206	36,323	36.427
SIG1000	31.155	31,153	31,153	31.153	31,155	31.171	31.194	31.207	31.231	31.265	31.298	31,330	31,364	31.397	31.414	31.430	31.448	31.474	31.483	31.503	666.6-	31.569	31.603	31.633	31.672	31.752	31.856	31,969	32.066
SIGMAT	26.794	26.791	26.791	26.790	26.791	26.806	26.820	26.831	26.852	26.881	26.910	26.937	26.966	26.994	27.009	27.020	27.036	27.055	27.064	27.081	666.6-	27.134	27.162	27.187	27.220	27.293	27.389	27.498	27.587
POTEMP	14.383	14,389	14.389	14.382	14.373	14.163	13.964	13.866	13,708	13,487	13,311	13.100	12,901	12.664	12.525	12.384	12.231	12.096	11.969	11.834	-9.999	11.299	11.040	10.835	10.610	10.320	10.100	9.862	9.534
DO-ML/L	60.9	5.87	5.91	5.99	5.97	5.91	5.87	5.85	5.75	5.64	5.46	5.42	5.42	5.36	5.31	5.30	5.22	5.18	5.15	5.10	66.6-	5.00	66.4	4.92	4.80	4.56	4.37	4.33	4.37
SAL-PSU	35,890	35.889	35.889	35.887	35.886	35.843	35.813	35.801	35.785	35.764	35.755	35.735	35.722	35.697	35.681	35,661	35.642	35.638	35.615	35.604	-9.999	35.544	35.519	35.505	35.497	35.526	35.605	35.691	35,736
T-DEGC	14.385	14.392	14.395	14.391	14,385	14.177	13.981	13.887	13,731	13.512	13,339	13.130	12.935	12.699	12.563	12.425	12.274	12.142	12.017	11.884	666.6-	11.357	11.103	10.904	10.684	10.406	10.198	9.971	9.653
P-DB	10.	20.	40.	.09	80.	100.	120.	140.	160.	180.	200.	220.	240.	260.	280.	300.	320.	340.	360.	380.	400.	450.	500.	550.	.009	700.	800.	•006	1000.



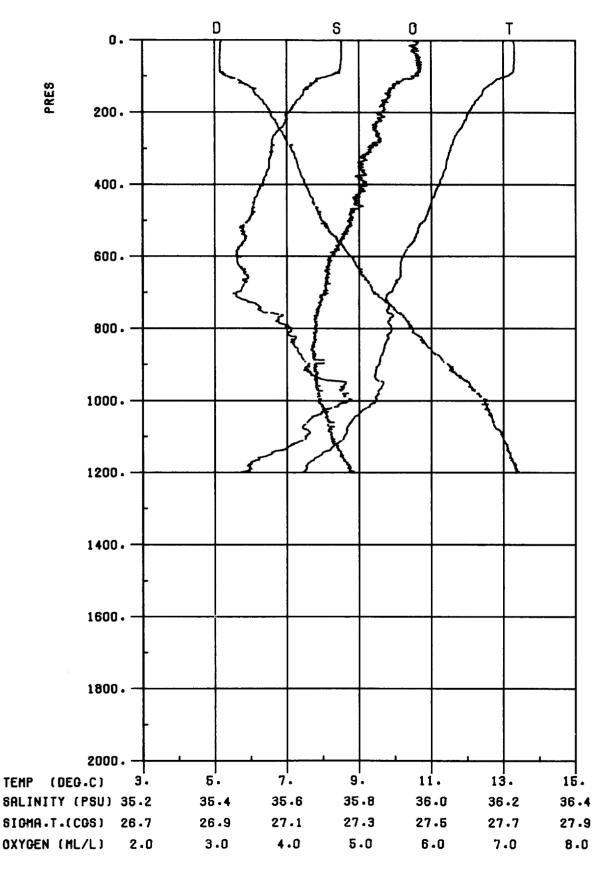
DISCOVERY 132 STATION 10639

BVFR-C/HR	-9.999	0.574	-0.695	-0.341	0.644	0.832	1.538	2.918	2.410	2,253	1,955	1.931	1.748	1.629	1.660	1.//8	1.501	1.762	1.391	1.399	-9.999	1.156	1.456	1.338	1.361	1.65/	1.852	1.914	1.889	1.652	1.570	1.290	1.145	0.872
BI	03	03	03	03	03	03	03	03	03	03	03	03	03	03	03	03	603	03	03	03	01	03	03	0.5	0.2	0.5	0.5	02	0.5	0.5	02	02	02	02
SVANOM	0.1233E	0.1235E	0.1244E	0.1252E	0.1256E	0.1258E	0.1250E	0.1205E	0.1176F	0.1152E	0.1135E	0.1118E	0.1106E	0.1096E	0.1085E	0.1072E	0.1064E	0.1051E	0.1045E	0.1038E	-0.9999E	0.1029E	0.1010E	0.9962E	0.9812E	0.9239E	0.8459E	0.7602E	0.6/68E	0.6173E	0.5640F	0.5327E	0.5098E	0.5017E
DEPTH-M	10.	20.	40,	•09	79.	966	119.	139.	159.	179.	198.	218.	238.	258.	278.	297.	317.	337.	357.	377.	397	446.	.967	545.	594.	693.	792.	891.	•066	1089.	1187.	1286.	1384.	1483.
SNDV-M/S DEPTH-M	1505.8	1506.0	1506.3	1506.7	1507.0	1507.1	1506.5	1505.2	1504.8	1504.3	1504.0	1503./	1503.6	1503.5	1503.3	1502.9	1502.8	1502.5	1502.5	1502.5	6.666-	1502./	1502.6	1502.7	1502.9	1503.6	1504.3	1504.2	1505.0	1503.3	1502.3	1500.2	1498.4	1497.4
DYNHT-M S	0.012	0.025	0.049	0.074	0.099	0.125	0.150	0.174	0.198	0.221	0.244	0.26/	0.289	0.311	0.333	0.354	0.375	0.397	0.418	0.438	666.6-	0.511	0.562	0.612	0.661	0.756	0.845	0.925	766.0	1.062	1.121	1.176	1.228	1.279
SIG2000	35.436	35.437	35.434	35,433	35.436	35.443	35.468	35.539	35.584	35.625	35.656	35.686	35.710	35./31	35.754	35.781	35.799	35.825	35.841	35.856	666*6-	35.894	35.937	35.971	36.006	36.101	36.216	36.344	36,463	36.568	36.659	36.729	36.784	36.817
SIG1000	31.170	31.171	31.168	31.167	31.170	31.176	31.196	31.258	31.298	31,334	31.362	31,388	31,409	31.428	31.448	31.4/1	31.48/	31,509	31.523	31,536	666.6-	31.569	31,606	31,636	31.667	31./56	31.866	31.984	32.097	32.182	32.258	32,305	32,339	32,356
SIGNAT	26.808	26.809	26.805	26.804	26.806	26.809	26.823	26.875	26.911	26.942	26.965	26.987	27,005	27.021	27.037	27.056	27,069	27,087	27,098	27,109	666.6-	27.135	27.165	27.190	27.216	27.297	27.400	27,506	27,609	27.677	27.737	27.762	27.776	27.777
POTEMP	14.347	14.347	14.348	14.351	14,343	14.276	13,992	13.536	13.296	13,062	12.872	12.678	12.55/	12,435	12.270	12,065	11,946	11.///	11.670	11,571	666.6-	11,313	11.041	10.831	10.646	10,343	10.064	9.547	9.279	8.397	7.693	6.762	5.916	5.283
DO-ML/L	6.30	6.33	6.31	6.33	6.27	6.27	6.20	6.03	5.76	5.69	5.51	5.46	5.41	5.29	5.29	5.25	5.20	5.17	5.19	5.16	66.6-	5.13	5.06	4.98	4.90	4.62	4.39	4.36	4.42	4.61	4.80	5.05	5.31	5.52
SAL-PSU	35.898	35,900	35.896	35.896	35.897	35.884	35.824	35.769	35.751	35.730	35.711	35.690	35.683	35.673	35,653	35.626	35.614	35,596	35.584	35.575	666.6-	35.548	35.524	35,508	35,500	35.537	35.609	35.632	35.713	35.615	35.554	35,416	35.290	35.191
T-DEGC	14,349	•	14.354	14.359	14.354	14.291	14.010	13.556	13,318	13,087	12.899	12,708	12.590	12,471	12,308	12,105	11,988	11.822	11,717	11.620	666.6-	11,370	11,104	10,900	10.721	10.429	10,160	9,653	9.397	8.520	7.822	6.893	6.049	5.420
P-DB	10.	20.	40.	•09	80.	100	120.	140.	160.	180.	200.	220.	740	260.	280.	300	320.	340.	360.	380.	400	450.	500	550.	009	·00/	800.	900	1000.	1100.	1200.	1300.	1400.	1500.



DISCOVERY 132 STATION 10640

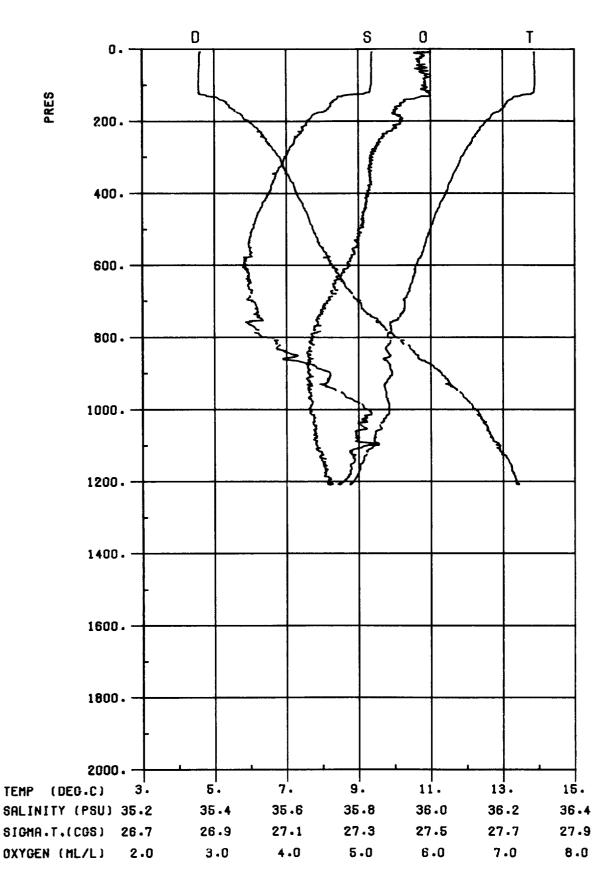
BVFR-C/HR	-9.999	-2.285	1.503	-0.425	0.844	-0.663	1.753	2.580	2.255	1.722	1.624	1.349	1.486	1.441	1.114	1,239	1.397	1.196	1.114	1.482	-9.999	1.388	1.220	1.368	1.445	1.66/	-9.999	1.811	1.890	1.580	1.562
	03	03	03	03	03	_	03	03	03	03	03	0.3	03	03	03	03	0.3	03	03	0.3	01	03	03	05	05	0.5	0	0.5		0.5	0.5
SVANOM	0.1150E	0.1168E	0.1161E	0.1168E	0.1170E	0.1179E	0.1167E	0.1133E	0.1108E	0.1096E	0.1086E	0.1081E	0.10/3E	0.1066E	0.1064E	0.1061E	(),1054E	0.1051E	0.1049E	0.1041E	-0.9999E	0.1020E	0.1019E	0.9950E	0.9765E	0.9181E	-0.9999E	0.//04E	0.6872E	0.6348E	U.5826E
DEPTH-M	10.	20.	* 0 *	•09	79.	99.	119.	139.	159.	179.	198.	218.	238.	258.	.8/2	297.	31/.	337.	357.			446.	496.	545.		693.	192.	891.	990.	1089.	118/.
DYNHT-M SNDV-M/S DEPTH-M	1502.7	1503.5	1503.8	1503.7	1503.9	1504.3	1503.4	1503.1	1502.6	1502.2	1502.2	1502.2	1502.0	1501.9	1502.0	1502.0	1501.9	1502.0	1502.1	1502.1	-9999	1502.4	1502.6	1502.7	1502.8	1503.4	6.666-	1504.9	1505.4	1503.8	1503.2
DYNHT-M	0.011	0.023	0.046	0.070	0.093	0.117	0.140	0.163	0.186	0.208	0.229	0.251	0.273	0.294	0.315	0.336	0.358	0.379	0.400	0.421	-9.999	0.493	0.544	0.594	0.643	0./3/	-9.999	0.908	0.980	1.046	1.10/
SIG2000	35.558	35,535	35.550	35.554	35.559	35.556	35.589	35.639	35.679	35,705	35.726	35.742	35.761	35.178	35.789	35.802	35.818	35.830	35.839	35.856	-9,999	35,907	35.937	35.973	36.011	36,109	-9.999	36,329	36.449	36.547	36.635
SIC1000	31.276	31.256	31.270	31.272	31.276	31.273	31,300	31,345	31,381	31,403	31.422	31.435	31.452	31.46/	31.476	31.487	31,501	31.511	31.519	31.534	-9,999	31,580	31.606	31.638	31.672	31.763	-9.999	31,972	32.086	32,164	32.239
SIGMAT	26.896	26.878	26.884	26.892	26.894	26.891	26.912	26.954	26.981	26.999	27.015	27.025	27.038	27.050	27.057	27.066	2/.0//	27.085	27.092	27.105	-9.999	2/.144	27.165	27.191	27.221	2/,303	4999 y	27.498	27.603	27.661	21.123
POTEMP	13.447	13,622	13,604	13.474	13,453	13,465	13,105	12,901	12.6/2	12.470	12,349	12,250	12.104	11.982	11,907	11,813	11,708	11.627	11,580	11.482	666.6-	11,228	11,032	10,822	10,633	10.290	666.6-	9.734	9.384	8.524	7.932
DO-ML/L	5.62	5.88	5.95	00.9	6.03	6.01	6.01	5.76	5.66	5.65	5.59	5.56	5.55	5.52	5.55	5.52	5.51	5.50	5.46	5,41	66.6-	5.14	5.04	4.95	4.85	4.56	4.42		4.39	44.44	0/**
SAL-PSU	35.766	35./92	35,805	35.769	35,769	35.768	35,697	35.698	35.679	35,651	35,641	35,630	35.611	35.597	35.588	35.577	35.566	35,557	35,555	35.549	666.6-	35,540	35,521	35,507	35,503	35,532	35,613	35.664	35.124	35.621	35.583
T-DEGC	13.448	13.624	13.609	13,485	13,464	13,479	13.121	12,920	12.694	12.496	12.375	12.279	12,135	12,016	11.944	11.852	11.750	11.671	11.626	11.531	666.6-	11,285	11,096	10.891	10,01	10.376	666-6-	0.847	9.502	× 799	8.063
P-10B	10.	20.	40,	909	80.	100	120.	140.	160.	180	200.	220.	240	260.	280.	300	320.	340	360.	380.	400.	450.	500.	550.	600	7007	. OC.	-006	1000	1100	1200.



DISCOVERY 132 CTD10641 A N 1983/41/0226 41 27-1N 18 06-6W

DISCOVERY 132 STATION 10641

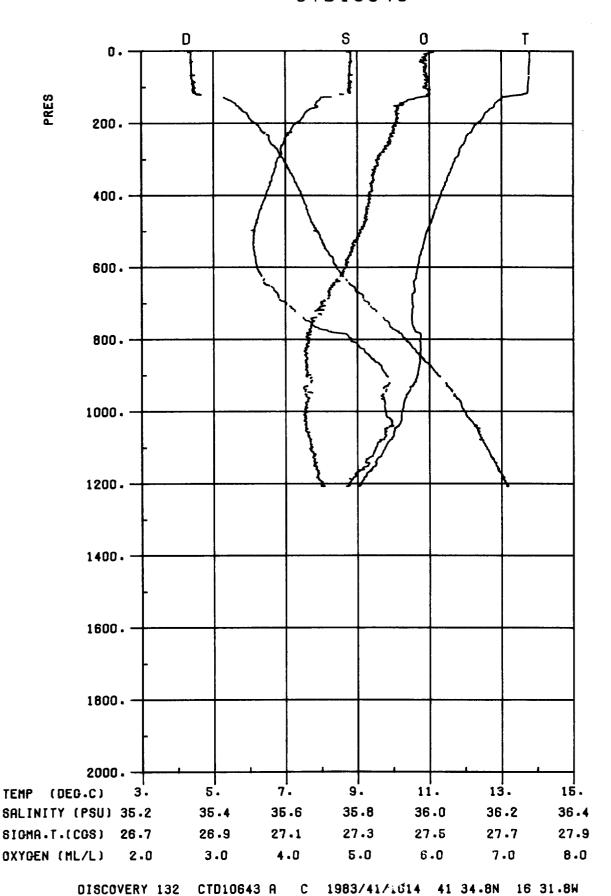
BVFR-C/HR	666.6-	-0.497	0.121	0.098	0.425	1.576	2.115	2.277	1.610	1.740	1.434	1.384	1.337	1.549	1.326	1.493	1.247	1.115	1.091	1.119	1.161	1.284	1.291	1.680	1.672	1.514	1.847	1.814	1.821	1.504	1.428
1	03	03	60	03	03	03	0.3	03	03	03	03	03	03	03	03	03	03	03	03	03	0.3	05	0.5	02	0.5	0.5	0.5	02	02	0.5	0.5
SVANOH	0.1131E	0.1134E	0.1140E	0.1146E	0.1151E	0.1142E	0.1102E	0.1077E	0.1067E	0.1055E	0.1048E	0.1042E	0.103/E	0.1028E	0.1023E	0.1015E	0.1011E	0.1009E	0.1007E	0.1004E	0.1002E	0.9899E	0.977/E	0.9480E	0.9184E	0.8736E	0./953E	0.7204E	0.6445E	0.5991E	0.5581E
рертн-и	10.	20.	40.	•09	79.	999	119.	139.	159.	179.	198.	218.	238.	258.	2/8.	247.	317.	337.	357.	377.	346.	446.	496.	545.	594.	693.	192.	891.	990.	1089.	118/.
S/W-AGKS	1502.2	1502.4	1502./	1503.1	1503.3	1503.0	1501.9	1501.4	1501.3	1501.0	1501.0	1501.0	1501.0	1500.7	1500.7	1500.8	1500.9	1501.1	1501.2	1501.3	1501.3	1501.4	1501.5	1501.4	1501.0	1501.3	1503.4	1503.8	1505.3	1503.6	1500.9
DYNHT-M SNOV-M/S DEPTH-H	0.011	0.023	0.045	0.068	0.091	0.114	0.137	0.158	0.180	0.201	0.222	0.243	0.264	0.284	0.305	0.325	0.345	0.366	0.386	0.406	0.426	0.476	0.525	0.573	0.620	0.709	0.792	0.869	0.937	0.999	1.05/
SIG2000	35.584	35.584	35,584	35.584	35.586	35,609	35.673	35.715	35.736	35.762	35.779	35.795	35.809	35.830	35.845	35.862	35.873	35,883	35.893	35.903	35.914	35.948	35.980	36.034	36.088	36.171	36.277	36,389	36.495	36.586	36.672
SIG1000	31.299	31.298	31,298	31,298	31,300	31,319	31.375	31.412	31,431	31,453	31.468	31.482	31.494	31.512	31.525	31.540	31.551	31,559	31.568	31.576	31.586	31.615	31.643	31.691	31.738	31.814	31,921	32.026	32.131	32,202	32.263
SIGNAT	26.916	26.915	26.914	26.914	26.914	26.929	26.977	27.008	27,024	27.042	27,054	27.066	27.075	27.089	27.100	27.113	27.122	27.129	27.136	27.142	2/.150	27.1/3	27.197	27.237	27.277	27.342	27.450	27.547	27.648	27,698	27.737
POTEMP	13.294	13.296	13.297	13.291	13.277	13,083	12,668	12.413	12.293	12.122	12,008	11.915	11.818	11.660	11.564	11.486	11.427	11,369	11.314	11.237	11,163	10.937	10.742	10.464	10.139	9.750	9.794	9.437	9.340	8.448	7.345
00-ML/L	5.80	5.78	5.81	5.83	5.84	5.76	5.52	5.42	5.40	5.32	5.28	5.30	5.22	5.26	5.28	5.16	5.07	2.00	5.05	5.00	5.10	4.96	4.87	4.78	4.61	4.53	4.39	7.40	4.46	4.62	4.90
SAL-PSU	35.751	35.751	35.751	35.750	35.747	35.716	35.670	35.647	35.637	35.618	35.606	35.598	35.588	35.568	35,558	35.557	35.555	35,551	35.546	35.538	35,530	35.508	35.494	35.484	35.462	35.463	35.612	35.660	35.772	35.652	35.485
T-DEGC	13.295	13.299	13,303	13,300	13.288	13.096	12.684	12,432	12,315	12.146	12.034	11.944	11.849	11.693	11.600	11.525	11.468	11.412	11,359	11.285	11.214	10.994	10.804	10,531	10.212	9.832	068.6	9.542	9.458	8.571	7.471
P-1)B	10.	20.	. 04	•09	80.	100.	120.	140.	160.	180.	200.	220.	240.	260.	280.	300.	320.	340.	360.	380.	400	450.	500.	550.	6 00 .	700.	800.	•006	1000	1100.	1200.



DISCOVERY 132 CTD10642 A E 1983/41/0931 41 31.2N 17 18.7W

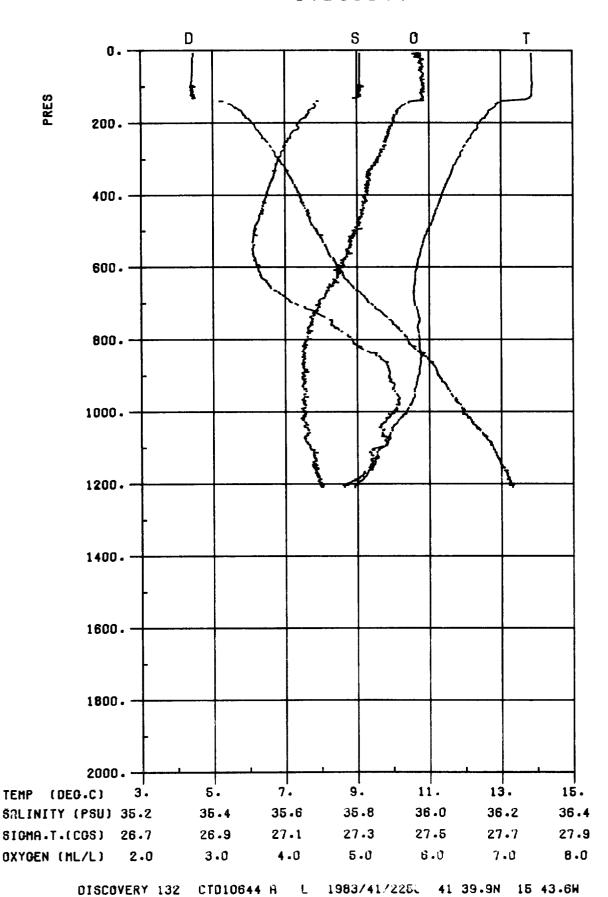
DISCOVERY 132 STATION 10642

BVFR-C/HR	666.6-	-0.548	-0.576	0.495	0.197	0.099	0.506	3.084	2.084	2.246	1.973	1.970	1.630	1.+98	1.661	1.705	1.169	1.248	1.423	1.391	1.173	1.351	1.193	1.318	1.403	1.589	1.892	1.991	1.751	1.515	1.462
SVANOM B	0.1183E 03	0.1187E 03	0.1195E 03									0.1087E 03		0.1069E 03		0.1046E 03		0.1039E 03		0.1026E 03				0.9875E 02						0.6292E 02	0.5878E 02
DEPTH-M	10.		* () *	. 09	79.	.66	119.	139.	159.	179.				258.						377.	396.	446.	496	545.	594.	693.	792.	891.	990.	1089.	1187.
DYNHT-M SNDV-11/S DEPTH-M	1504.2	1504.4	1504.7	1505.1	1505.4	1505.7	1506.0	1504.2	1503.9	1503.1	1502.7	1502.5	1502.3	1502.3	1502.1	1502.0	1502.0	1502.0	1502.0	1502.0	1502.1	1502.0	1502.1	1502.4	1502.4	1502.9	1503.1	1505.3	1506.8	1507.2	1506.4
DYNHT-M	0.012	0.024	0.047	0.071	0.095	0.120	().144	0.168	0.191	0.214	0.236	0.258	0.279	0.301	0.322	0.343	0.364	0.385	90**0	0.426	0.447	0.498	0.548	0.598	9,940	0.741	0.829	606.0	0.979	1.044	1.105
SIG2000	35.506	35.505	35,503	35,505	35.505	35.505	35.508	35.59I	35.625	35.669	35,701	35.732	35.754	35.772	35.794	35.817	35.829	35.842	35.858	35.874	35,885	35.922	35.951	35.984	36.021	36,111	36.235	36.357	36.455	36.535	36.615
SIG1000	31.232	31,231	31.229	31,230	31,230	31.231	31,233	31,304	31,335	31.372	31,400	31.427	31.446	31.462	31.482	31.502	31.512	31.523	31.537	31.551	31.560	31.592	31.617	31.646	31.680	31.762	31.877	32,002	32,100	32.172	32.237
SIGMAT	26.860	26.859	26.856	26.857	26.857	26.856	26.857	26.916	26.942	26.972	26.996	27.019	27.035	27,048	27.064	27.082	27,089	27.098	27.110	27.121	27.128	27.154	27.174	27.198	27.226	27.299	27.404	27.530	27.624	27.688	27.738
POTEMP	13.878	13.882	13.878	13,883	13.881	13.877	13.842	13.225	13.030	12.716	12.507	12,336	12,196	12,089	11.949	11,806	11.732	11.635	11.539	11,436	11.364	11.108	10.915	10,738	10.518	10.174	9.735	9.807	9.719	9.378	8.706
100-ML/L	5.92	5.89	5.91	5.92	5.95	5.92	5.95	5./1	5.55	5.48	5.60	5.51	5.35	5.27	5.20	5.18	5.17	5.17	5.17	5.14	5.13	5.07	5.00	96.4	7.86	4.57	4.36	4.31	4.32	7.	4.59
SAL-PSU	35.837	35.837	35,833	35.836	35.836	35,835	35.827	35.738	35,721	35.680	35,657	35.644	35,630	35,621	35.607	35,595	35.587	35,575	35.568	35,558	35.551	35.524	35,505	35.497	35.483	35,502	35.541	35.721	35.824	35,834	35.758
T-DEGC	13,880	13.885	13,884	13.892	13,893	13,891	13.859	13.244	13.052	12.740	12.534	12,365	12.228	12,123	11,985	11.845	11,773	11,679	11,586	11.485	11.415	11.165	10.977	10,806	10.592	10.259	9.830	9.616	9.840	9.509	8.844
P-1)B	10.	20.	40.	09	80.	100	120.	140.	160.	180.	200	220.	240.	260.	280	300	320.	340.	360.	380.	400	450.	500.	550.	. 009	700.	800.	900	1000	1100.	1200.



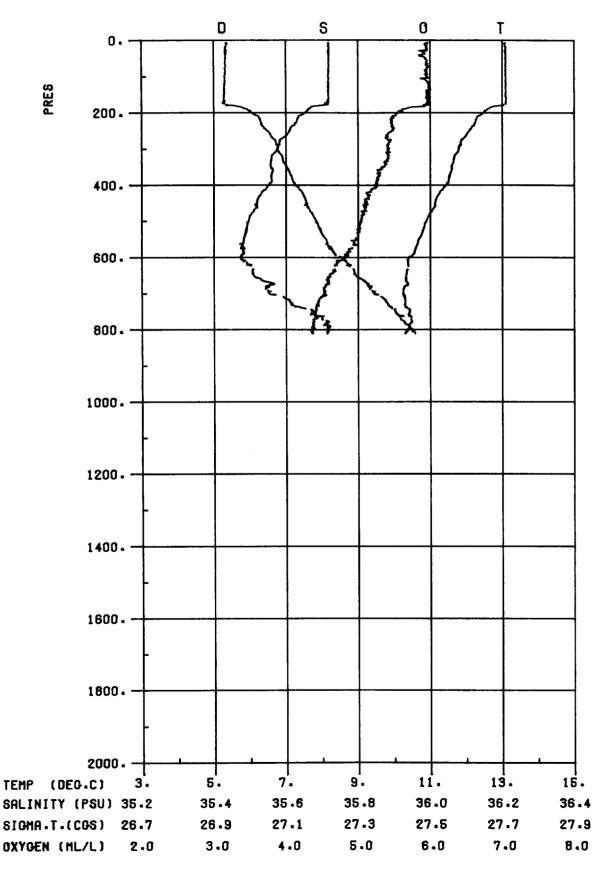
DISCOVERY 132 STATION 10643

BVFR-C/HR	666.6-	0.070	967.0	0.439	0.623	0.797	1.415	3.944	1.988	1.839	1.871	1.575	1.906	1.307	1.674	1.559	1.306	1.452	1.207	1.387	1.253	1.137	1.309	1.301	1.442	1.124	1.778	1.716	1.633	1.507	1.534
	03	03	03	03	03	03	03	03	03	03	03	03	03	03	03	03	03	03	03	03	03	03	0	05	05	05	05	02		05	
SVANOM	0.1204E	0.1207E	0.1212E	0.1217E	0.1221E	0.1223E	0.1218E	0.1130E	0.1113E	0.1098E	0.1083E	0.1074E	0.1057E	0.1053E	0.1041E	0.1032E	0.1027E	0.1020E	0.1017E	0.1011E	0.1007E	0.1000E	0.9875E	0.9748E	0.9563E	0.8924E	0.8230E	0.7605E	0.7058E	0.6620E	0.6147E
DEPTH-M	10.	20.	40*	•09	79.	99.	119.	139.	159.	179.	198.	218.	238.	258.	278.	297.	317.	337.	357.	377.	396.	446.	495.	545.	594.	693.	792.	891.	•066	1089.	1187.
DYNIT-M SNDV-M/S DEPTH-M	1503.8	1504.0	1504.3	1504.6	1504.9	1505.2	1505.1	1502.9	1502.6	1502.3	1501.9	1501.8	1501.5	1501.6	1501.5	1501.4	1501.5	1501.5	1501.6	1501.6	1501.7	1501.9	1502.0	1502.3	1502.7	1503.9	1506.6	1508.1	1508.2	1508.2	1507.3
DYNHT-M	0.012	0.024	0.048	0.073	0.097	0.121	0.146	0.169	0.191	0.213	0.235	0.257	0.278	0.299	0.320	0.341	0.361	0.382	0.402	0.423	0.443	0.493	0.543	0.592	0.640	0.732	0.818	0.897	0.970	1.039	1.103
SIG2000	35.488	35.488	35.490	35,492	35.495	35.500	35.517	35.642	35.674	35,703	35.732	35,753	35,782	35.796	35.817	35.837	35.850	35,867	35.878	35.894	35.906	35,933	35.966	35.997	36.034	36.132	36.225	36,320	36.413	36.495	36.582
SIG1000	31.212	31,212	31,213	31.215	31.218	31.222	31.237	31,348	31.376	31.401	31.426	31.444	31.470	31,482	31.501	31.519	31.530	31.545	31,555	31.569	31.580	31.602	31.632	31.660	31.694	31.789	31.888	31,981	32.066	32,137	32.210
SIGMAT	26.838	26.838	26.839	26.839	26.841	26.844	26.858	26.953	26.976	26.997	27.018	27.032	27.054	27.064	27.081	27.095	27.105	27.117	27.126	27.137	27.145	27.163	27.187	27.212	27.242	27.332	27.434	27.524	27.598	27.658	27.714
POTEMP	13,780	13,779	13.767	13.757	13.741	13.720	13.594	12.858	12.673	12.480	12.285	2		_	11.784		_	_	11,426	_	11,251	11.066	10.867	10.726	10.592	10.430	10.637	10.545	10.106	9.630	8.939
DO-M./L	5.95	5.93	5.95	5.94	5.95	5.94	5.99	5.67	5.56	5.55	5.52	5.50	5.46	5.44	5.36	5.29	5.26	5.22	5.22	5.20	5.16	5.13	5.04	4.93	4.84	4.50	4.30	4.30	4.28	4.36	4.50
SAL-PSU	35,781	35.781	35,780	35.779	35.777	35.777	35.759	35.689	35,673	35,651	35.629	35,615	35,600	35,592	35,588	35.577	35.572	35,566	35,561	35,553	35,545	35,526	35.512	35.511	35.520	35.602	35.783	35,880	35.878	35.851	35.777
T-DEGC	13,781	13,781	13,772	13.765	13.752	13.734	13,611	12.878	12,695	12,505	12,312	12,181	12,008	11.924	11.820	11.700	11.630	11,537	11,472	11.379	11,302	11,123	10.929	10.794	10.664	10.517	10./37	10.658	10.229	9.763	9.078
P-1)B	10.	20.	40.	.09	80.	100.	120.	140.	160.	180.	200.	220.	240.	260.	280.	300.	320.	340.	360.	380.	400.	450.	500.	550.	. 009	700	800.	900	1000.	1100.	1200.



DISCOVERY 132 STATION 10644

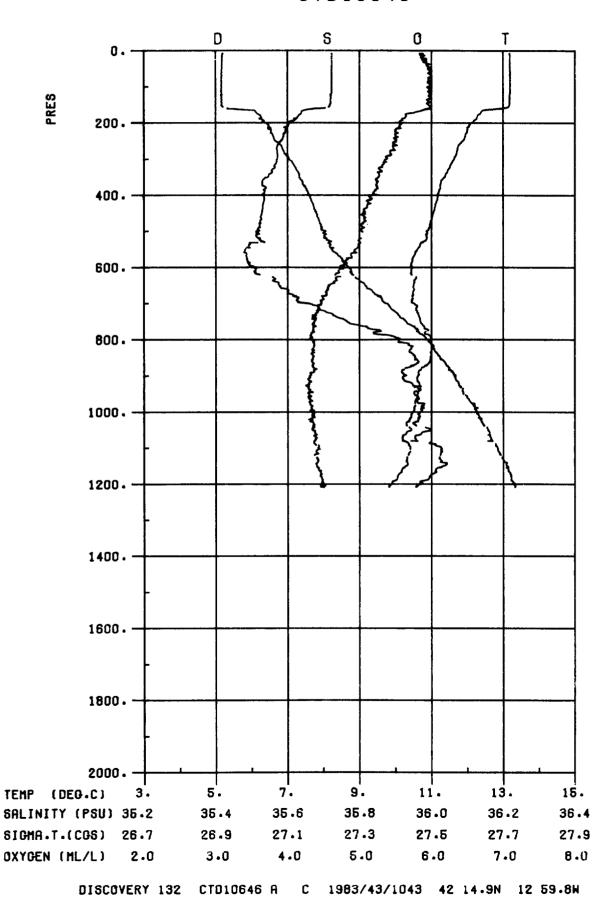
BVFR-C/HR	-9.999	-0.677	-0.139	0.191	-0.439	0.551	-0.263	3.072	3.286	1.939	1.812	1.569	1.634	1.805	1.440	1.469	1.652	1.243	1.520	1.332	1.285	1,308	1.299	1.382	1.465	1.709	1.805	1.662	1.544	1.786	1.454
æ	03	03	0.3	03	0.3	03	03	03	03	03	03	03	03	03	03	03	03	03	03	03	03	02	7.0	02	02	02	7.0	0.5	02	02	0.5
SVANOM	0.1197E	0.1201E	_	0.1214E	0.1221E	0.1226E			0.1123E	0.1106E		0.1083E		0.1059E		_	0.1034E	0.1030E	0.1021E	-			0.986/E			0.8890E	0.8169E				0.6023E
DEPTH-M	10.	20.	40.	•09	.61	.66	119.	139.	159.	1/9.	198.	218.	238.	258.	278.	297.	317.	337.	357.	377.	396.	446.	4495.	545.	594.	693.	792.	891.	.066	1089.	1187.
DYNHT-M SNDV-M/S DEPTH-M	1504.1	1504.3	1504.6	1504.9	1505.3	1505.6	1505.9	1503.8	1502.9	1502.6	1502.2	1502.2	1502.0	1501.8	1501.8	1501.7	1501.7	1501.8	1501.7	1501.7	1501.8	1502.0	1502.0	1502.2	1502.7	1504.2	1506.5	1508.2	1508.7	1507.8	1506.9
DYNHT-M	0.012	0.024	0.048	0.072	0.097	0.121	0.146	0.170	0.193	0.215	0.237	0.259	0.281	0.302	0.323	0.344	0.365	0.385	0.406	0.426	0.447	0.497	0.547	0.596	0.644	0.736	0.821	006.0	0.973	1.041	1.103
SIG2000	35.493	35.492	35.492	35.492	35.491	35.492	35.493	35.578	35.660	35.691	35.719	35./38	35.760	35.787	35,804	35.821	35.842	35.854	35.872	35.887	35,900	35,933	35.967	36.002	36.040	36.133	36.232	36.320	36.402	36.517	36.597
SIG1000	31.218	31,217	31.216	31.217	31.215	31.217	31.217	31.289	31,364	31.391	31.415	31.432	31.451	31.474	31.489	31.504	31,523	31.534	31.550	31.562	31.574	31,603	31.632	31.664	31.699	31./92	31.894	31,982	32.058	32,158	32.22
SIGMAT	26.846	26.844	26.843	26.843	26.841	26.842	26.841	26.916	26.964	26,988	27.008	27,023	27.038	27.058	27.070	2/.082	27.099	27.107	27.121	27.131	27.140	2/.166	27.188	27.216	27.247	27.337	27.440	27.525	27.592	27.677	27.725
POTEMP	13,839	13.846	13.846	13.846	13.847	13.849	13,830	13.135	12.749	12,559	12,372	12.273	12.119	11.956	11.848	11./41	11.628	11.562	11.458	11.366	11.287	11.103	10.874	10.697	10.574	10.504	10.616	10.569	10,239	9.537	8.836
DO-M./L	5.84	5.84	5.90	5.89	5.91	5.92	5.89	5.87	5.59	5.51	5.51	5.44	5.40	5.39	5.34	5.28	5.22	5.17	5.17	5.13	5.12	5.05	4.97	4.86	4.77	4.48	4.30	4.27	4.26	4.34	4.50
SAL-PSII	35.807	35.807	35.807	35.807	35.806	35.809	35,803	35.692	35.679	35.660	35.638	35.633	35.615	35.600	35.589	35.580	35.574	35.570	35.562	35.554	35.548	35.537	35.514	35.510	35,523	35.625	35.786	35.887	35,901	35.854	35.769
T-DEGC	13.841	13,849	13.851	13,855	13,859	13.864	13.847	13.154	12.770	12.584	12,399	12,303	12,151	11.991	11.885	11./80	11.669	11.606	11.504	11.414	11.338	11.160	10.936	10.765	10.648	10.591	10.716	10.683	10.364	699.6	8.975
P-DB	10.	20.	40.	. 09	80.	100	120.	140.	160.	180.	200.	220.	240.	260.	280.	300.	320.	340.	360.	380.	400	450.	500.	550.	. 009	700.	800.	. 006	1000.	1100.	1200.



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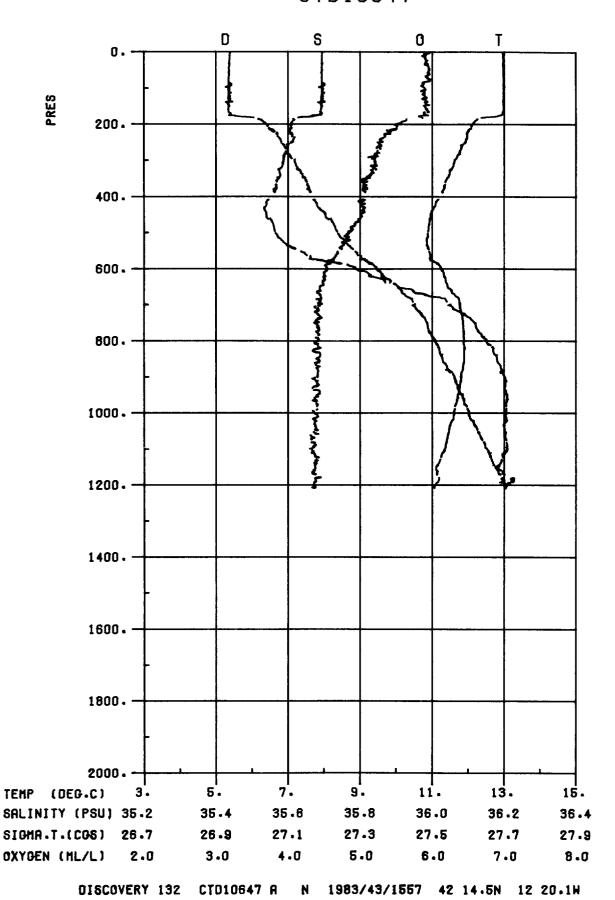
DISCOVERY 132 STATION 10645

BVFR-C/HR	-9,999	-0.789	0.110	-0.295	0.191	-0.399	0.399	-0.209	0.241	1.336	3.277	1.969	1.329	1.750	1.622	1.051	1.351	1.058	1.345	1.364	1.144	1.503	1.390	1.426	1.609	1.756	1.837
SVANOM	0.1112E 03	0.1117E 03	0.1123E 03			0.1142E 03											0.1043E 03	0.1042E 03	_	_	_	_	0.9916E 02	0.9738E 02	0.9474E 02		0.8034E 02
DEPTH-M																		337.									
SNDV-11/S DEPTH-11	1501.4	1501.7	1502.0	1502.3	1502.7	1503.0	1503.3	1503.7	1504.0	1504.0	1502.5	1502.1	1502.0	1501.9	1501.6	1501.7	1501.6	1501.8	1502.0	1502.1	1502.2	1501.9	1501.8	1501.9	1501.8	1502.9	1505.2
DYNIIT-M	0.011	0.022	0.045	0.067	0.000	0.113	0.135	0.158	0.182	0.205	0.227	0.249	0.270	0.292	0.313	0.334	0.355	0.376	0.396	0.417	0.438	0.488	0.538	0.587	0.636	0.727	0.810
SIG2000	35.613	35.611	35,611	35.610	35.610	35.609	35.610	35.610	35.610	35.626	35./13	35.745	35.760	35.785	35.807	35.816	35.832	35.841	35.853	35.868	35.878	35.924	35.963	36,002	36.051	36.153	36.255
SIC1000	31,323	31,321	31,321	31,320	31,320	31,319	31.320	31,320	31,321	31.334	31.410	31.438	31.451	31.473	31.492	31.500	31,513	31.521	31,533	31.546	31,555	31.594	31.628	31.662	31,706	31.804	31.910
SIGMAT	26.935	26.933	26.932	26.931	26.931	26.929	26.930	26.929	26.929	26.939	27.005	27.028	27,038	27.057	2/0.12	27.078	27.088	27.095	27.105	2/.116	27.123	27.155	27.183	27.211	27.248	27.343	27.449
POTEMP	13.072	13.083	13.084	13.086	13.082	13,085	13.082	13.082	13.082	12.974	12.446	12.239	12.118	11.978	11.808	11./4/	11.628	11.580	11.543	11.466	11.401	11,081	10.826	10.601	10.346	10.155	10.267
DO-11L/L	5.95	5.95	5.90	5.95	5.95	5.95	5.98	5.96	96.5	5.94	5.55	5.46	5.47	5.42	5.44	5.42	5.42	5.37	5.29	5.27	5.27	5.11	5.04	4.98	4.82	4.53	4.37
SAL-PSU	35.718	35.719	35.719	35.719	35.718	35.717	35.718	35./17	35.718	35.704	35.653	35.631	35.615	35.604	35.582	35.576	35.561	35.558	35.563	35.559	35,553	35.519	35.496	35.482	35.473	35.552	35.717
T-DEGC	13.073	13.086	13.090	13.094	13.093	13.099	13,099	13.101	13,105	12,999	12.4/3	12.268	12.150	12.012	11.845	11.786	11.669	11.624	11.589	11.514	11.452	11.138	10.889	10.669	10.420	10.240	10.366
P-1)B	10.	20.	. 04	• 09	80.	100.	120.	140.	160.	180.	200.	220.	240.	260.	.082	300.	320.	340.	360.	380.	400	450.	500.	550.	•009	700.	800.



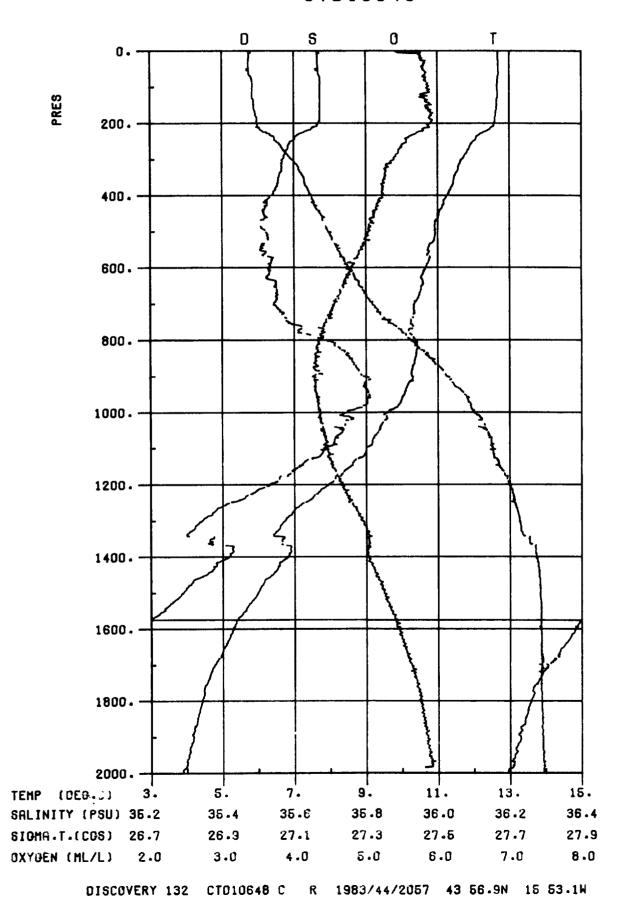
DISCOVERY 132 STATION 10646

BVFR-C/HR	-9.999	-0.454	0.239	-0.144	-0.256	0.355	0.276	0.332	2.261	3.550	1.487	1.678	1.143	1.751	1.350	1.575	1.597	1.378	1.256	1.446	1.239	1.189	1.273	1.220	1.781	1.844	1.806	1.665	1.445	1,396	1.398
	E 03	E 03	E 03	E 03	E 03	E 03			E 03	E 03	E 03							E 03		E 02	E 02		E 02	E 02				E 02			E 02
SVANOM	0.1129E	0.1132	0.1138E	0.1144E	0.1150E	0.1156E	0.1161E	0.1167E	0.1142E	0.1072E	0.1064E	0.1053E	0.1051E	0.1038E	0.1033E	0.1023E	0.1013E	0.1007E	0.1003E	0.9957E	0.9917E	0.9835E	0.9721E	0.9624E	0.9273E	0.8505E	0.7785E	0.7215E	0.6842E	0.6510E	0.6170E
DEPTH-M	10.	20.	* 0 *	•09	79.	96.	119.	139.	159.	179.	198.	218.	238.	258.	278.	297.	317.	337.	357.	377.	396.	446.	495.	545.	594.	693.	792.	891.	990.	1088.	1187.
SNDV-H/S DEPTH-N	1501.8	1502.0	1502.3	1502.6	1503.0	1503.3	1503.6	1503.9	1503.1	1501.5	1501.3	1501.1	1501.2	1501.0	1501.1	1501.2	1501.1	1501.1	1500.9	1501.1	1501.2	1501.6	1501.8	1501.6	1501.9	1503.9	1507.7	1508.0	1509.2	1510.7	1510.3
DYNHT-M	0.011	0.023	0.045	0.068	0.091	0.114	0.137	0.161	0.184	0.206	0.227	0.248	0.269	0.290	0.311	0.331	0.352	0.372	0.392	0.412	0.432	0.481	0.530	0.579	0.626	0.715	0.797	0.872	0.942	1.009	1.073
SIG2000	35.592	35,591	35.591	35.591	35.591	35.591	35.592	35.593	35.638	35.738	35.758	35.781	35.792	35.817	35.831	35.849	35.869	35.885	35,900	35.914	35.926	35.953	35.984	36.016	36.071	36.176	36.265	36,361	36.431	36.494	36.566
SIG1000	31,303	31,303	31,303	31,303	31,302	31,303	31,304	31,305	31,343	31.432	31.449	31,469	31.478	31.500	31,513	31.530	31.547	31,561	31.573	31.586	31.597	31.621	31.649	31.675	31.727	31.834	31.934	32.023	32.089	32.151	32.211
SIGMAT	26.918	26.917	26.917	26.916	26.915	26.915	26.915	26.915	26.946	27.024	27.036	27.053	27.061	27.079	27.090	27.104	27.119	27.130	27.139	27.150	27.160	27.180	27.205	27.223	27.270	27.377	27.485	27.565	27.626	27.684	27.730
POTEMP	13.172	13.175	13.174	13.174	13.175	13.172	13.162	13.152	12.832	12.261	12.097	11,961	11.888	11,731	11.663	11.581	11.468	11.373	11.223	11.190	11.112	10.979	10.800	10.533	10.371	10,408	10.897	10.512	10,345	10.265	9.717
DO-ML/L	•	•		•	•	•	5.98			5.64	5.58	5.50	5.51	5.49	5.42	5.37	5.31	5.26	5.23	5.24	5.19	5.05	5.03	4.93	4.77	4.46	4.31	4.31	4.35	4.42	4.48
SAL-PSU	Š	Š	δ.	5	5	Š	2	Ŋ.	5	5	35,606	5	5.	5.	5	5.	5.	Š	5	5.	35,531	5	5.	∿.	Š	35.654	Š	5	2	9	
T-DEGC		_	_		_	-	_	-	•		12.123	•		•				11.417			11.162	11.036	10.862	10.600	•	10.494	•	•	•	•	9.864
P-DB	10.	20.	40.	.09	80.	100.	120.	140.	160.	180.	200.	220.	240.	260.	280.	300.	320.	340.	360.	380.	400	450.	500.	550.	•009	700.	800.	900	1000.	1100.	1200.



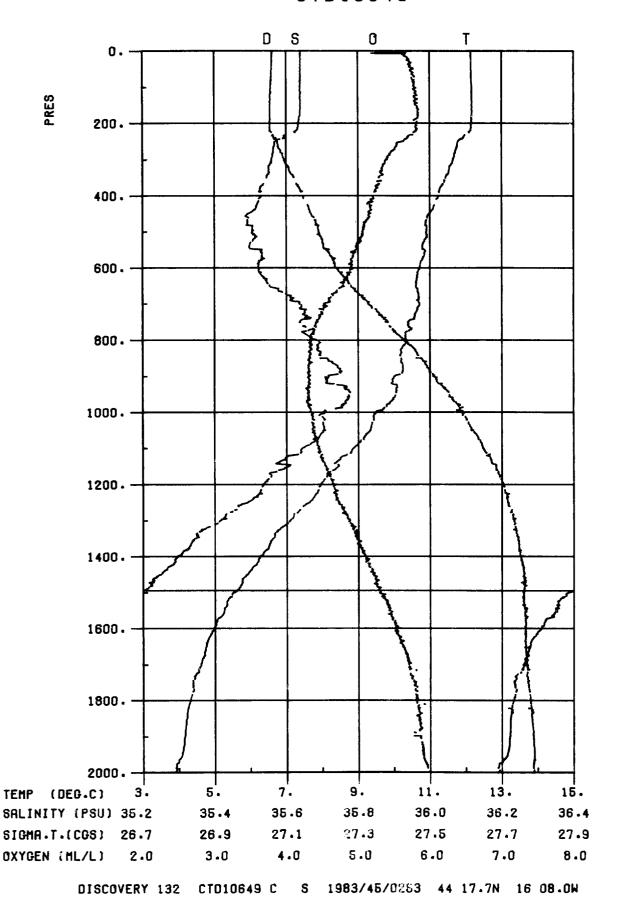
DISCOVERY 132 STATION 10647

BVFR-C/HR	-9.999	-0.644	-0.139	-0.163	0.085	0.251	-0.231	0.306	0.121	2.673	3.108	1.893	1./51	1.487	1.210	1.832	1.165	1.554	1.398	1.059	-9.999	1.513	1.512	1.735	1.913	1.775	1.366	1.349	1.205	1.347	1.368
SVANOM BV	0.1108E 03	0.1112E 03	0.1118E 03	0.1124E 03			0.1142E 03		0.1153E 03	0.1116E 03							0.1007E 03					0.9604E 02							0.7273E 02		0.6709E 02
DEPTH-M																	31/.				•	446.	_	_	_		_	_	_		1187.
DYNHT-M SNDV-M/S DEPTH-M	1500.9	1501.2	1501.6	1501.9	1502.3	1502.6	1502.9	1503.2	1503.6	1502.6	1501.3	1501.2	1501.4	1501.2	1501.3	1501.2	1501.3	1501.3	1501.3	1501.5	6*666-	1501.3	1501.9	1502.9	1505.1	1508.9	1511.0	1512.5	1513.4	1514.2	1515.0
DYNHT-M	0.	0.022	0.044	0.067	0.089	0.112	0.135	0.158	0.181	0.204	0.225	0.246	0.26/	0.288	0.308	0.329	0.349	0.369	0.389	0.409	-9.999	0.477	0.525	0.571	0.615	0.698	0.776	0.852	0.926	0.997	1.066
SIG2000	35.621	35.620	35.620	35.620	35.620	35.620	35.620	35.621	35.621	35.680	35.758	35.786	35.807	35.826	35.837	35.863	35.874	35.892	35,908	35.917	-9.999	35,980	36.018	36.065	36.112	36.195	36.251	36,310	36.361	36.423	36.487
SIG1000	31,329	31,328	31,328	31.32/	31.327	31.328	31,328	31.328	31.328	31,380	31.449	31.474	31.494	31.510	31.520	31.543	31,553	31.570	31,583	31.591	-9,999	31.646	31.683	31.731	31.785	31.881	31.939	31.997	32.043	32.100	32,159
SIGNAT	26.939	26.938	26.93/	26.936	26.936	26.936	26.935	26.936	26.934	26.978	27.037	27.058	27.011	27.090	27.098	27.119	27.126	27.140	27.152	27.158	-9.999	27.204	27,239	27.285	27.346	27.450	27.509	27.562	27.602	27.652	27.703
POTEMP	12,964	12,968	12.968	12.969	12.969	12,968	12.966	12.95/	12.956	12.576	12.111	11.970	11.927	11.783	11.717	11.585	11.511	11.425	11.320	11.282	666.6-	10.902	10.819	10.842	11.169	11.676	11.770	11.680	11.472	11.210	10.926
00-11L/L	5.96	5.91	5.95	5.96	5.95	5.90	5.89	5.90	5.92	5.84	5.55	5.41	5.29	5.28	5.23	5.20	5.19	5.14	5.06	5.08	-9.99	5.00	4.83	4.66	4.53	4.43	4.42	7.40	4.37	4.33	4.36
SAL-PSU	35.695	35.695	35.694	35.694	35.694	35.695	35.694	35.692	35.692	35,651	35.610	35.603	35.617	35.599	35,594	35.588	35.581	35.579	35,569	35.568	-9.999	35.540	35,566	35.633	35.790	36.050	36.152	36.202	36.205	36.209	36.209
T-DEGC	12.965	12.971	12.974	12.977	12.980	12,982	12.982	12.976	12,979	12,601	12,137	11.999	11.958	11.81/	11.754	11.623	11.553	11.469	11,365	11.330	-9.999	10.958	10,881	10.911	11.246	11.769	11.877	11,801	11,605	11,355	11.083
P-DB	10.	20.	40.	60.	80.	100.	120.	140.	160.	180.	200.	220.	240.	260.	280.	300	320.	340.	360.	380.	400	450.	500.	550.	. 009	700.	800.	900	1000	1100.	1200.



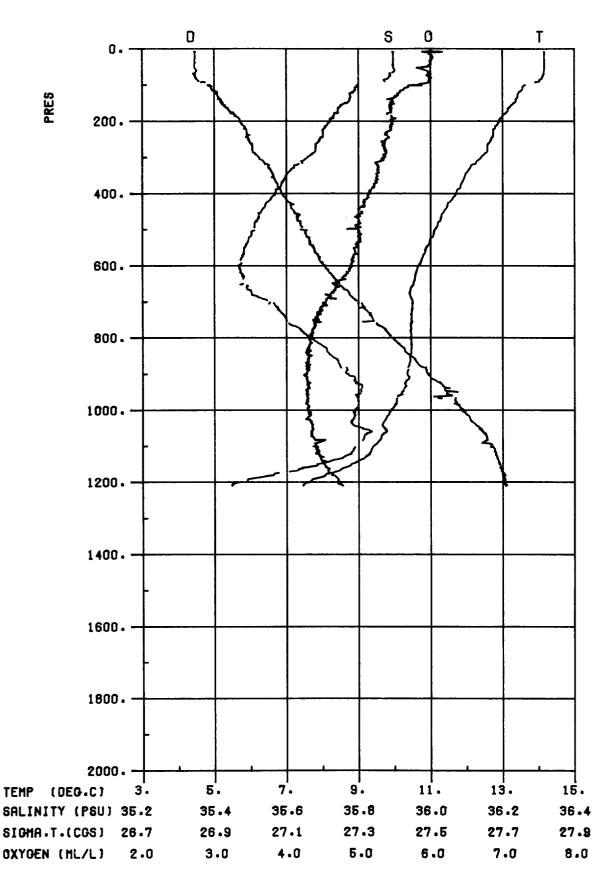
DISCOVERY 132 STATION 10648

BVFR-C/HR	000	0 110	-0.019	-0.223	0.481	1.220	0.504	-0.135	906.0	0.502	1.042	0.710	1.501	2.407	1.729	1.431	1.816	1.691	1.268	1.175	1.267	1.352	1.325	666.6-	1.299	1.427	1.526	1.858	1.811	1.660	1.456	1.540	1.409	1.201	1.122	0.955	0.835	0.758	0.693	0.770	0.764	0.697	0.732	0.613	0.526	0.43/	0.306	0.255	0.128
		200									03	03			03	03	03				0.3	03	0.2	0.1	02	0.2	0.5											05						02	0.5	02		05	0.5
SVANOM	27701	0.10745	0.10/8E	0.1084E	0.1088E	0.1085E	0.1090E	0.1095E	0.1096E	0.1101E	0.1100E	0.1103E	0.1095E	0.1066E	0.1053E	0.1047E	0.1032E	0.1021E	0.1016E	0.1013E	0.1009E	0.1003E	0.9901E	-0.9999E	0.9650E	0.9471E	0.9022E	0.8236E	0.7504E	0.6920E	0.6512E	0.6012E	0.5603E	0.5343E	0.5128E	0.4999E	0.4919E	0.4866E	0.4833E	0.4760E	0.4608E	0.4504E	0.4361E	0.4302E	U.4294E	0.4381E	0.4595E	0.4845E	0.5169E
DEPTH-M	¢	• 5	•07	40.	•09	79.	•66	119.	139.	159.	178.	198.	218.	238.	258.	278.	297.	317.	337.	357.	377.	396.	446.		545.	594.	693.	792.	891.	.066	1088.	118/	1286.	1384.	1483.	1581	1680.	1778.	1876.	1975.	2171.	2367.	2563.	2759.	2955.	3443.	3931.	4417.	4903.
S/H-VONS	0071	1499.9	1500.7	1500.6	1500.9	1501.2	1501.5	1501.8	1502.1	1502.4	1502.6	1502.8	1502.5	1501.7	1501.5	1501.5	1501.3	1501.3	1501.4	1501.5	1501.5	1501.5	1501.5	6.666-	1502.1	1502.7	1503.2	1505.2	1506.7	1505.7	1505.2	1502./	1499.4	1501.6	1499.8	1498.5	1498.0	1498.2	1498.8	1499.2	1501.6	1504.1	1506.4	1509.0	1511.8	1519.4	1527.6	1536.1	1544.9
DYNHT-M SNDV-M/S DEPTH-M	ć	0.0	0.021	0.043	0.065	0.087	0.108	0.130	0.152	0.174	0.196	0.218	0.240	0.262	0.283	0.304	0.325	0.345	0.366	0.386	0.406	0.426	0.476	666.6-	0.574	0.622	0./14	0.801	0.880	0.951	1.018	1.081	1.139	1.193	1.245	1.296	1.346	1.394	1.443	1.491	1.585	1.676	1.765	1.851	1.93/	2.153	2,377	2.613	2.863
SIG2000	0 / / 20	33.009	33.668	35.66/	32.669	35.679	35.681	35.681	35.687	35.689	35.697	35,702	35.723	35.771	35.796	35.812	35.838	35.860	35.872	35.883	35.896	35.911	35.947	666.6-	36.010	36.044	36.127	36.234	36,339	36.442	36.522	36.618	36.702	36.746	36.798	36.834	36.861	36.882	36.898	36.917	36.953	36.982	37,013	37,033	37.047	37,068	37.076	37.081	37.082
SIG1000		31.3/1	31.370	31.3/0	31.371	31,381	31,383	31,383	31.388	31,390	31,397	31,401	31.419	31,460	31,482	31.496	31,519	31.539	31.550	31.560	31.571	31.584	31.614	666.6-	31.671	31.704	31.780	31.889	31.993	32,081	32.147	32.219	32.274	32,321	32.351	32.370	32,383	32,395	32.404	32.416	32.445	32.469	32.492	32.507	32.516	32.530	32,535		32.537
SIGMAT		216.07	70.974	26.973	26.974	26.983	26.984	26.983	26.988	26.989	26.995	26.998	27,011	27,046	27.063	27.075	27.095	27.112	27.121	27.129	27,138	27.148	27.173	27,198	27.221	27.252	27.320	21.421	27.528	27.603	27.652	27.699	27.727	27.774	27.784	27.786	27.786	27.788	27.791	21.194	27.816	27.833	27.848	27.856	27.860	27.863	27.860	27.855	27.848
POTEMP	0	12.6/0	12.675	12.6/9	12.679	12.651	12.642	12.641	12.618	12,607	12.575	12.538	12,346	12,030	11.861	11.769	11.620	11.524	11.449	11,385	11,305	11.201	10.965	-9.999	10.651	10.580	10.248	10.273	10.172	9.466	8.8/4	7.803	6.585	6.672	5.825	5.134	609.4	4.255	700.4	3,/10	3.448	3.244	2.966	2.774	2.606	2.343	2.204	2.112	2.084
DO-ML/L		V.4.	7.7	2.80	5.84	5.82	5.86	5.77	5.84	5.87	5.89	5.90	5.79	5.58	5.50	5.45	5.38	5,30	5.27	5.24	5.23	5.23	5.10	5.03	46.4	4.79	4.55	4.35	4.27	4.38	4.45	4.65	96.4	5.04	5.25	5.46	5.63	5.76	5.85	5.92	5.98	5.94	5.90	5.83	5.81	5.73	5.73	5.75	5.79
SAL-PSU		35.665	32.666	35.666	35.668	35.673	35.673	35.672	35.673	35.672	35.673	35,667	35,636	35.602	35.584	35.577	35,566	35.566	35.560	35.555	35.548	35,537	35,515	35.522	35,506	35.530	35.544	35.691	35.800	35.738	35.681	35.528	35.340	35.418	35.287	35.182	35.104	35.057	35.028	34.993	34.989	34.987	34.974	34.964	34.951	34.931	34.918	34.908	34.904
T-DEGC		12.670	12.678	12.685	12.687	12.662	12.656	12.658	12.637	12,629	12.599	12.565	12,375	12.062	11.896	11,806	11.659	11.566	11.492	11.431	11,353	11.252	11,022	-9,999	10,719	10,655	10,333	10.371	10.283	9.584	9.001	7,933	6./15	6.814	5.968	5.279	4.758	4.408	4.167	3.876	3.629	3.442	3.180	3.004	2.854	2.639	2.554	٠.	55
P-DB	•	• n •	20.	40.	•09	80.	100.	120.	140.	160.	180.	200.	220.	240.	260.	280.	300.	320.	340.	360.	380.	400	450.	500.	550.	.009	/00/	800.	9 00.	1000.	1100.	1200.	1300.	1400.	1500.	1600.	1700.	1800.	1900.	2000.	2200.	2400.	2600.	2800.	3000.	3500.	4000	4500.	5000•



10649	
STATION	
132	
DISCOVERY	

BVFR-C/HR	-9.999 -0.381 0.209 -0.313 0.244 -0.491 -0.231 -0.312	0.283 0.279 0.206 1.504 1.328 1.174	1.382 1.148 1.478 1.429 1.342	1.229 1.229 1.251 1.305 1.703 1.707 1.690	1.518 1.591 1.314 1.235 0.995 0.944 0.810 0.869	0.708 0.704 0.806 0.725 0.599 0.541 0.429
æ	003 003 003 003	000000000000000000000000000000000000000	033	005555555555555555555555555555555555555	02 02 02 02 02 02	052222
SVANOM	0.9928E 0.9961E 0.1001E 0.1008E 0.1013E 0.1020E 0.1026E 0.1032E	0.1042E 0.1047E 0.1053E 0.1045E 0.1040E 0.1037E	0.1027E 0.1024E 0.1016E 0.1009E 0.1004E			0.4811E 0.4713E 0.4515E 0.4377E 0.4329E 0.4312E 0.4411E
DEPTH-M	10. 20. 40. 60. 79. 99. 119. 139.	178. 198. 218. 238. 258. 278.	317. 337. 357. 377. 396.	446. 545. 594. 693. 792. 891.	1088. 1187. 1286. 1384. 1483. 1581. 1779.	1974. 2171. 2367. 2563. 2759. 3955.
DYNHT-M SNDV-M/S DEPTH-M	1498.2 1498.4 1498.7 1499.4 1499.4 1500.1 1500.4 1500.4	1501.4 1501.4 1501.6 1501.2 1500.9 1501.1	1501.2 1501.4 1501.3 1501.2 1501.4	1501.8 1501.8 1502.4 1502.8 1504.6 1505.1 1505.4	1504.6 1502.7 1501.0 1499.2 1497.2 1497.3 1497.7	1499.3 1501.9 1504.0 1506.4 1509.1 1511.9 1519.5
M-THNYO	0.010 0.020 0.040 0.060 0.080 0.121 0.142	0.183 0.204 0.225 0.246 0.267 0.287	0.329 0.349 0.370 0.390 0.410	0.509 0.509 0.558 0.607 0.700 0.786 0.865	1.006 1.068 1.126 1.134 1.285 1.336 1.385	1.482 1.577 1.670 1.759 1.845 1.932 2.149
SIG2000	35.776 35.775 35.775 35.775 35.775 35.773 35.773	35.775 35.775 35.776 35.816 35.826	35.854 35.864 35.882 35.899 35.912	35.971 35.998 36.028 36.120 36.335 36.437	36.524 36.622 36.691 36.753 36.828 36.853 36.853	36.911 36.981 37.011 37.030 37.045 37.066
SIG1000	31.467 31.467 31.467 31.466 31.465 31.465 31.465 31.465	31.466 31.466 31.467 31.485 31.508 31.519	31.533 31.542 31.557 31.572 31.584	31.636 31.636 31.689 31.781 31.889 31.982	32.145 32.222 32.272 32.313 32.336 32.356 32.371 32.389	32.411 32.436 32.467 32.491 32.505 32.516 32.529
SIGMAT	27.061 27.060 27.060 27.059 27.058 27.056 27.055 27.055	27.055 27.055 27.067 27.067 27.085 27.085	27.105 27.113 27.127 27.137 27.148	27.190 27.213 27.238 27.338 27.328 27.427 27.510	27.647 27.703 27.733 27.754 27.760 27.765 27.770	27.808 27.808 27.830 27.846 27.855 27.862 27.862
POTEMP	12.132 12.135 12.133 12.136 12.140 12.143 12.144 12.141	12.138 12.096 11.891 11.719 11.663	11.499 11.454 11.343 11.219 11.173	10.826 10.740 10.623 10.605 10.240 9.901	8.731 7.809 6.961 6.119 5.410 4.453 4.148 3.991	3.726 3.525 3.214 2.972 2.790 2.630 2.366 2.219
DO-ML/L	5.51 5.69 5.72 5.74 5.77 5.79 5.81	5.81 5.81 5.69 5.54 5.46	5.34 5.33 5.26 5.20	6 4 4 4 4 4 4 4 4 4 3 3 3 3 4 4 4 4 4 4	4.44 4.65 4.88 5.10 5.71 5.80 5.80	5.00 5.09 5.86 5.73 5.73
SAL-PSU	35.639 35.640 35.639 35.639 35.640 35.639 35.639	35.634 35.629 35.595 35.566 35.563	35.551 35.550 35.540 35.527 35.530	35.506 35.516 35.522 35.636 35.683 35.718 35.705	35.645 35.534 35.296 35.190 35.109 35.061 35.032	34.990 34.990 34.980 34.973 34.964 34.954 34.933
T-DEGC	12.133 12.138 12.139 12.144 12.145 12.154 12.159 12.163 12.163	12.144 12.126 11.922 11.753 11.699	11.540 11.497 11.388 11.268 11.224	10.888 10.888 10.808 10.697 10.338 10.010 9.488	7.938 7.095 6.255 6.255 5.548 4.971 4.600 4.300	3.032 3.186 3.020 2.878 2.663
P-DB	10. 20. 40. 60. 80. 120. 140. 180.	200. 220. 240. 260. 280.	320. 340. 360. 380. 400.	550. 550. 600. 700. 800. 1000.	1200. 1200. 1300. 1400. 1500. 1700. 1800.	2200. 2200. 2400. 2600. 2800. 3500.



DISCOVERY 132 WPRDI10650BWRQ 1983/47/0007 40 59.1N 20 25.4W

DISCOVERY 132 STATION 10650

BVFR-C/HR	-9.999	0.171	-0.261	0.893	-0.339	2,390	1.912	1.353	1.539	1.826	1.869	1.539	0.967	1.201	1.090	1.686	1.858	1.708	1.182	1.295	1.372	1.547	-9.999	1.382	1.476	1.771	1.761	1.782	1.832	1.726	1.559
SVAMOM B)	0.1196E 03	0.1199E 03	0.1206E 03	0.1207E 03	0.1214E 03	0.1186E 03	0.1171E 03	0.1166E 03	0.1158E 03	0.1144E 03	0.1129E 03		0.1120E 03		0.1116E 03	0.1105E 03	0.1090E 03	0.1078E 03	0.1075E 03		0.1065E 03	0.1042E 03	-0.9999E 01	0.1011E 03				0.7842E 02	0.7084E 02	0.6428E 02	.5912E 02
DEPTH-M			40.			99.												337. (397.			545. (594.		792.	•	990.		1187. 0
DYNHT-N SNDV-N/S DEPTH-N	1505.2	1505.4	1505.7	1506.0	1506.2	1504.8	1504.6	1504.7	1504.4	1504.3	1504.0	1503.9	1504.1	1504.1	1504.2	1504.0	1503.5	1503.2	1503.2	1503.2	1503.1	1502.7	6.666-	1502.6	1502.6	1503.8	1505.5	1506.9	1506.9	1506.8	1501.4
DYNHT-N	0.012	0.024	0.048	0.072	960.0	0.120	0.144	0.167	0.191	0.214	0.236	0.259	0.281	0.304	0.326	0.348	0.370	0.392	0.413	0.435	0.456	0.509	-9.999	0.611	0.662	0.758	0.847	0.929	1.003	1.070	1.132
SIG2000	35.482	35.482	35.481	35.487	35.488	35,543	35.571	35.586	35.607	35.634	35.662	35.682	35.689	35.702	35.711	35.735	35.765	35.789	35.802	35.815	35.831	35.880	-9.999	35.956	35,998	36.101	36.200	36.302	36.418	36,523	36.635
SIC1000	31.213	31.213	31.212	31.218	31.218	31,263	31.289	31.302	31,320	31,343	31,368	31,385	31,392	31.403	31.411	31,431	31.456	31.477	31.488	31.499	31.513	31,555	-9.999	31.621	31,657	31,758	31.856	31,957	32.063	32.157	32.228
SIGNAT	26.847	26.847	26.846	26.850	26.849	26.883	26.908	26.914	26,930	26.951	26.972	26,983	26.992	26.999	27.006	27.022	27.046	27.059	27.067	27.076	27.087	27.121	27.144	27.174	27.206	27,300	27.396	27.493	27.588	27.668	27.703
POTEMP	14.158	14.157	14.159	14.135	14.092	13,602	13.449	13,361	13.196	13.043	12.871	12,746	12,702	12.597	12.539	12.370	12.153	11.967	11.871	11.780	11.656	11.310	11.056	10.816	10.574	10,397	10.354	10.239	691.6	9.272	7.485
00-ML/L	6.01	6.02	00.9	5.91	5.99	5.83	5.57	5.45	5.44	5.41	5.45	5.44	5.38	5.34	5.38	5.36	5.25	5.27	5.26	5.21	5.16	5.05	4.91	4.97	4.89	4.54	4.33	4.27	4.30	4.39	4.73
SAL-PSU	35.896	35.896	35.896	35.900	35.883	35.795	35.784	35.775	35.750	35.736	35.719	35.706	35.702	35.686	35.680	35.659	35.631	35.607	35.594	35.584	35.568	35.530	666.6-	35.484	35.469	35.554	35.669	35.770	35.790	35.789	35.470
T-DEGC	14.159	14.160	14.165	14.159	14.104	13.616	13.466	13,380	13.219	13.068	12.899	12.776	12.734	12.633	12.577	12.411	12.195	12.012	11.918	11.829	11.708	11.370	11.119	10.884	10.648	10.486	10,453	10.350	068.6	9.402	7.612
P-DB	10.	20.	40.	•09	80.	100.	120.	140.	160.	180.	200.	220.	240.	260.	280.	300.	320.	340.	360.	380.	400.	450.	500.	550.	•009	700.	800.	.006	1000	1100.	1200.