Cruise # 319142

ACCESSION NUMBER 78-0310 3/24/78

DDF-B:1:24

DATA DOCUMENTATION FORM

TR2973

NOAA FORM 24-13 (4-72)

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEANOGRAPHIC DATA CENTER
RECORDS SECTION
ROCKVILLE, MARYLAND 20852

FORM APPROVED O.M.B. No. 41-R2651

This form should accompany all data submissions to NODC. Section A, Originator Identification, must be completed when the data are submitted. It is highly desirable for NODC to also receive the remaining pertinent information at that time. This may be most easily accomplished by attaching reports, publications, or manuscripts which are readily available describing data collection, analysis, and format specifics. Readable, handwritten submissions are acceptable in all cases. All data shipments should be sent to the above address.

A. ORIGINATOR IDENTIFICATION

THIS SECTION MUST BE COMPLETED BY DONOR FOR ALL DATA TRANSMITTALS

1. NAME AND ADDRESS OF INSTITUTION, LABORATORY, OR ACTIVITY WITH WHICH SUBMITTED DATA ARE ASSOCIATED

DATA MANAGEMENT
INSTITUTE OF MARINE SCIENCE
UNIVERSITY OF ALASKA
FAIRBANKS, ALASKA 99701

2. EXPEDITION, PROJECT, OR PROGRAM DURING WHICH DATA WERE COLLECTED

OCSEAP

3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT

SU 006

SU
FG ID ~~OG~~IMS

4. PLATFORM NAME(S)	5. PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.)	6. PLATFORM AND OPERATOR NATIONALITY(IES)		7. DATES	
		PLATFORM	OPERATOR	FROM: MO/DAY/YR	TO: MO/DAY/YR
SURVEYOR	SHIP	U.S.	U.S.	4/14/77	5/02/77

8. ARE DATA PROPRIETARY?

XX NO ☐ YES

IF YES, WHEN CAN THEY BE RELEASED FOR GENERAL USE? YEAR ____ MONTH ____

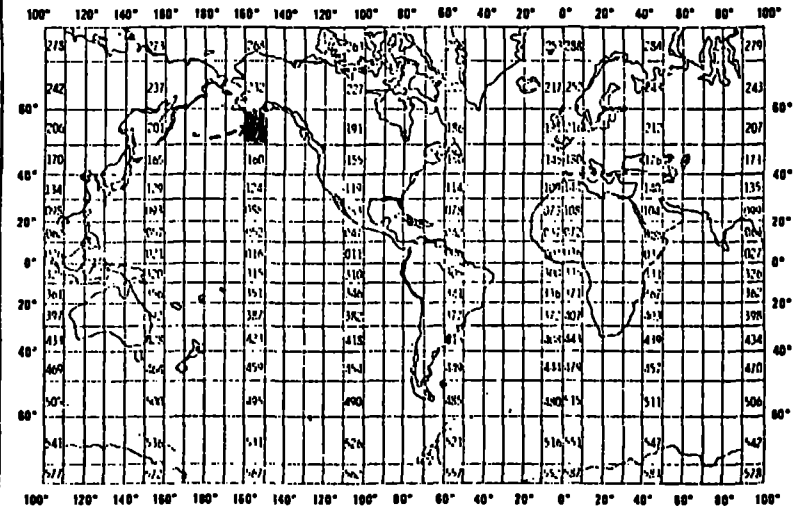
11. PLEASE DARKEN ALL MARSDEN SQUARES IN WHICH ANY DATA CONTAINED IN YOUR SUBMISSION WERE COLLECTED.

GENERAL AREA 196

9. ARE DATA DECLARED NATIONAL PROGRAM (DNP)?

(I.E., SHOULD THEY BE INCLUDED IN WORLD DATA CENTERS HOLDINGS FOR INTERNATIONAL EXCHANGE?)

X NO ☐ YES ☐ PART (SPECIFY BELOW)



10. PERSON TO WHOM INQUIRIES CONCERNING DATA SHOULD BE ADDRESSED WITH TELEPHONE NUMBER (AND ADDRESS IF OTHER THAN IN ITEM-1)

DATA PROCESSING
C/O CYDNEY HANSEN
(907)479-7833
(907)479-7074

USCOMM-DC 44289-P72

B. SCIENTIFIC CONTENT

NAME OF DATA FIELD	REPORTING UNITS OR CODE	METHODS OF OBSERVATION AND INSTRUMENTS USED (SPECIFY TYPE AND MODEL)	ANALYTICAL METHODS (INCLUDING MODIFICATIONS) AND LABORATORY PROCEDURES	DATA PROCESSING TECHNIQUES WITH FILTERING AND AVERAGING
SALINITY	0.001%	NANSEN BOTTLES & PLESSEY STD	SEE ATTACHED DATA PROCESSING PROCEDURE SHEETS	N/A
TAMPERATURE	°C	DSR THERMOMETERS & PLESSEY STD	SEE ATTACHED DATA PROCESSING PROCEDURE SHEETS	N/A
DEPTH	METERS (1M=1db)	THERMOMETRIC DEPTH & PLESSEY STD	SEE ATTACHED DATA PROCESSING PROCEDURE SHEETS	N/A

IMS STD/CTD DATA REDUCTION
July 1976

STDCOPY

Raw, 7-track mag tapes from 8460 or 8314 Plessey Digitizers are input, along with conversion equations specific for each sensor. These equations reflect the latest calibration or factory compliance data. If the FISH contains a conductivity sensor, it is converted to salinity by a relation based on the work of A. S. Bennett. (DSR, Vol. 23, No. 2, February 1976.)

Output of this program is on 9-track tape and includes digitally entered header data and all STD values on the 7-track tape. Output from this program is input for STDAV.

CALVAL

Periods from a frequency counter, taken at the time discrete samples were taken, is input along with raw temperature and conductivity data from the discrete samples. Each set of such data constitute one field correction.

All of the field corrections are listed along with mean values and standard deviations for T and S. Generally, values for T and S are rejected if they fall beyond two standard deviations from the mean.

Subjective judgments as to the quality of the field correction data is made at this time.

Output from this program provides input for STDAV.

STDAV

Data from STDCOPY and CALVAL are input with keypunched header information which includes station position, time and weather.

STD/AV checks each parameter to insure it falls within sensor limits. Parameters are grouped into one meter intervals (1m = 1db) and averaged. Field corrections are added to the one meter averages.

STD Scan condition codes are set:

0 - Data processed prior to implementation code. All values will be labeled 0.

1 - Value obtained from raw data at that depth interval. Processing to obtain this value must be specified in a DDF.

2 - Values are linearly interpolated from adjacent depth intervals.

3 - Values are obtained by "Vertical Extrapolation" from the first depths for which a value is found that fails within sensor limits.

Output includes header information and all corrected data in one meter intervals.

FINAL PRINT-OUT: To include the following, in addition to header and data:

1) Print-out "FISH" serial No. and stations for which it was used if more than one was used.

2) Equations used to convert frequency to parameters for each FISH used.

3) Field corrections used, to include mean and S.D. for each parameter. (If more than one fish was used, this is given for all fish).

4) Indicate how many bottles were used to determine each field correction for each fish used.

5) Other comments pertinent to individual stations or whole cruise.

C. DATA FO[illegible]

, COMPLETE THIS SECTION FOR PUNCHED CARDS OR TAPE, MAGNETIC TAPE, OR DISC SUBMISSIONS.

1. LIST RECORD TYPES CONTAINED IN THE TRANSMITTAL OF YOUR FILE
GIVE METHOD OF IDENTIFYING EACH RECORD TYPE

THREE RECORD TYPES WITHIN FILE TYPE 22

DESIGNATED AS: "1"For Text Record (in 10th Byte position)

"2" for Master Record.

"3" for Detail Record

2. GIVE BRIEF DESCRIPTION OF FILE ORGANIZATION

FILE 22, STD/CTD: 0 to 99,999 Text Records, followed by

1 Master Record, followed by

0 to 99,999 Detail Records

REPEATS

3. ATTRIBUTES AS EXPRESSED IN ☐ PL-1 ☐ ALGOL ☐ COBOL ☒ FORTRAN ☐ _____ LANGUAGE

4. RESPONSIBLE COMPUTER SPECIALIST:

NAME AND PHONE NUMBER Cydney Hansen, (907) 479-7836

ADDRESS Institute of Marine Science, University of Alaska, Fairbanks, AK99701

COMPLETE THIS SECTION IF DATA ARE ON MAGNETIC TAPE

5. RECORDING MODE
☐ BCD ☐ BINARY
☐ ASCII ☒ EBCDIC
☐ _____

6. NUMBER OF TRACKS (CHANNELS)
☐ SEVEN
☒ NINE
☐ _____

7. PARITY
☒ ODD
☐ EVEN

8. DENSITY
☐ 200 BPI ☐ 1600 BPI
☐ 556 BPI
☒ 800 BPI
☐ _____

9. LENGTH OF INTER-RECORD GAP (IF KNOWN)
☐ 3/4 INCH
☒ .5 - .6 inch

10. END OF FILE MARK
☐ OCTAL 17
☒ octal 23

11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME LAY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER)

427 022 006IMS
Surveyer 006
Sta's. 1-16
4/14/77 - 05/02/77 Dr. Alexander
9TRK, 800BPI, EBCDIC, NO LABEL, ODD

12. PHYSICAL BLOCK LENGTH IN BYTES
120 bytes/block

13. LENGTH OF BYTES IN BITS
8 bit bytes

C. DATA FORMAT

COMPLETE THIS SECTION FOR PUNCHED CARDS OR TAPE, MAGNETIC TAPE, OR DISC SUBMISSIONS.

1. LIST RECORD TYPES CONTAINED IN THE TRANSMITTAL OF YOUR FILE GIVE METHOD OF IDENTIFYING EACH RECORD TYPE

USER TAPE

2. GIVE BRIEF DESCRIPTION OF FILE ORGANIZATION

ATTRIBUTES AS EXPRESSED IN ☐ PL-1 ☐ ALGOL ☐ COBOL ☐ FORTRAN ☐ _____ LANGUAGE

4. RESPONSIBLE COMPUTER SPECIALIST:
NAME AND PHONE NUMBER D752 - NOAA/EDS/NODC - 2026347305
ADDRESS WASHington, DC 20235

COMPLETE THIS SECTION IF DATA ARE ON MAGNETIC TAPE

5. RECORDING MODE
☐ BCD ☐ BINARY
☐ ASCII ☒ EBCDIC
☐ _____

6. NUMBER OF TRACKS (CHANNELS)
☐ SEVEN
☒ NINE
☐ _____

7. PARITY
☒ ODD
☐ EVEN

8. DENSITY
☐ 200 BPI ☒ 1600 BPI
☐ 556 BPI
☐ 800 BPI
☐ _____

9. LENGTH OF INTER-RECORD GAP (IF KNOWN)
☐ 3/4 INCH
☐ _____

10. END OF FILE MARK
☐ OCTAL 17
☐ _____

11. PASTE-ON-PAPER LABEL DESCRIPTION (*INCLUDE ORIGINATOR NAME AND SOME LAY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER*)

000331 (1,SL)

DSN = TR2973

12. PHYSICAL BLOCK LENGTH IN BYTES
4800

13. LENGTH OF BYTES IN BITS
120

RECORD FORMAT DESCRIPTION

RECORD NAME STD RECORD FORMAT DESCRIPTION, FILE TYPE 22

14. FIELD NAME	15. POSITION FROM-1 MEASURED IN _____ (e.g., bits, bytes)	16. LENGTH NUMBER	16. LENGTH UNITS	17. ATTRIBUTES	18. USE AND MEANING
FILE TYPE "22" AS DESIGNATED BY OCSEP AND NODC. THERE ARE NO INTENDED DEVIATIONS FROM THIS TYPE.					

```
THE INSTITUTE OF MARINE SCIENCE IS RESPONSIBLE F[illegible]S DATA WHICH WAS COLLECTED
[illegible] THE SURVEYOR BETWEEN 04/14/77 AND 05/02/7[illegible] ALEXANDER
OF THE INSTITUTE OF MARINE SCIENCE.

THE CRUISE IS [illegible] INTO TWO SECTIONS IN AN ATTEMPT TO COMPENSATE FOR THE
VARYING SALINITY CORRECTION. THE ACCURRACY FOR SALINITY ON THIS CRUISE IS THERE-
FORE GREATLY REDUCED; PRECISION FOR ANY GIVEN STATION IS PROBABLY UNAFFECTED.

CTD MODEL 9040-2. SERIAL NUMBER 5914 WAS USED FOR STATIONS 1 THROUGH 11. AND
PARAMETERS FROM FREQUENCY FOLLOW:
          D=(D-9711.631?) * 0.9510005?0
          T=(T-2125.5917) * 1.789290-2 - 2.0000
          S=(S-4986.5077) * 3.9998830-4 + 0.233120C

CTD MODEL 90 0. SERIAL NUMBER 6211 WAS USED FOR STATIONS 12 THROUGH 16.
PARAMETERS FROM FREQUENCY FOLLOW:
          D=(D-9713.918) * 0.9505007?0
          T=(T-2126.008) * 1.731950-2 - 2.0000
          S=(S-4999.200) * 3.9936530-4 + 0.233120C

FIELD CORRECTION FOR THIS CRUISE WAS TAKEN FROM SURVEYER CRUISE SU6.

FIELD CORRECTION FOR THE CTD DATA WAS DERIVED BY COMPARING SINGLE BOTTLE SAMPLES
TO RECORDED SERIES FROM THE CTD SENSORS.  THE FIELD CORRECTION IS BASED ON 7
SAMPLES FROM STATIONS 1  THROUGH 11 OR A TOTAL OF 11 STATIONS.

THE FIELD CORRECTION FOR THE FIRST CAST THROUGH CAST 11 IS:
                    TEMPERATURE MEAN(NANSEN-STD)  IS -0.00803
      STANDARD DEVIATION OF DIFFS(NANSEN-STD)  IS  0.01348
                       SALINITY MEAN(NANSEN-STD)  IS -0.05298
      STANDARD DEVIATION OF DIFFS(NANSEN-STD)  IS  0.01602

FIELD CORRECTION FOR THE CTD DATA WAS DERIVED BY COMPARING SINGLE BOTTLE SAMPLES
TO RECORDED SERIES FROM THE CTD SENSORS.  THE FIELD CORRECTION IS BASED ON 3
SAMPLES FROM STATIONS 12 THROUGH 16 OR A TOTAL OF 5 STATIONS.
THE FIELD CORRECTIONS WHICH APPLY TO STATION 12 THROUGH THE END OF CRUISE ARE:
                    TEMPERATURE MEAN(NANSEN-STD)  IS -0.00849
      STANDARD DEVIATION OF DIFFS(NANSEN-STD)  IS  0.00859
                       SALINITY MEAN(NANSEN-STD)  IS  0.00206
      STANDARD DEVIATION OF DIFFS(NANSEN-STD)  IS  0.01369

THE TEMPERATURE FIELD CORRECTION IS A REASONABLE VALUE.
THE SALINITY FIELD CORRECTION VARIES CONSIDERABLY THROUGHOUT THE CRUISE
(-.077 TO -.004 ). SINCE THE CORRECTION TRENDS (RATHER THAN SHOWS SCATTER). IT
IS ASSUMED TO BE A REAL EFFECT.
[illegible]SU6        13477 417 6151 1010173  25  332126246 79040-5914. 6211          NONE  148 133
 [illegible]      10 3180320582556[illegible]  20 3180320582556[illegible]  30 318032058255563  40 318032058255563   1
 [illegible]      60 31[illegible]205[illegible]2556[illegible]  70 31[illegible]032C[illegible]25561  80 316532060025561  90 316132057255561   2
 [illegible]     110 31[illegible]5320462555[illegible] 120 31[illegible]532048255551 130 315932052255561 140 316832056255561   3
 [illegible]     160 31[illegible]3205225561 170 31[illegible]63204725551 180 316532048255551 190 316532048255551   4
 [illegible]     210 317332074[illegible]5571 220 31[illegible]7322[illegible]5571 230 320532089255581 240 320932065255561   5
 [illegible]     260 32[illegible]3209[illegible]5591 270 32[illegible]321055601 280 324332104255591 290 325532109255601   6
 [illegible]     310 32[illegible]43212425611 320 32[illegible]3211[illegible]5601 330 330632142255621 340 332332147255621   7
 [illegible]     360 33[illegible]3214[illegible]25621 370 33[illegible]3216[illegible]5651 380 336932214255672 390 338032242255691   8
 [illegible]     410 34[illegible]322[illegible]025711 420 350232255[illegible]5721 430 354932318255741 440 355832328257411   9
 [illegible]     460 35[illegible]3234725741 470 35[illegible]323[illegible]25761 480 358132359257710 490 358732348257611  10
 [illegible]     510 36[illegible]3239[illegible]5791 520 36343241[illegible]5811 530 364332419258110 540 364932423258111  11
 [illegible]     560 36[illegible]63243225822 570 36[illegible]3243[illegible]25821 580 366232439258210 590 366632445258311  12
 [illegible]     610 3676324[illegible]25[illegible]21 620 36813245[illegible]5831 630 367132494259610 640 365732521259911  13
 [illegible]     660 36[illegible]43256425921 670 36573257[illegible]25931 680 368132602259510 690 369632617254611  14
```

D. INSTRUMENT CALIBRATION

This calibration information will be utilized by NOAA's National Oceanographic Instrumentation Center in their efforts to develop calibration standards for voluntary acceptance by the oceanographic community. Identify the instruments used by your organization to obtain the scientific content of the DDF (i.e., STD, temperature and pressure sensors, salinometers, oxygen meters, velocimeters, etc.) and furnish the calibration data requested by completing and/or checking ("✓") the appropriate spaces. Add the interval time (i.e., 3 months, 6 months, 9 months, etc.) if the fixed interval calibration cycle is checked.

INSTRUMENT TYPE (MFR., MODEL NO.)	DATE OF LAST CALIBRATION	INSTRUMENT WAS CALIBRATED BY		CHECK ONE: INSTRUMENT IS CALIBRATED					INSTRUMENT IS NOT CALIBRATED
		YOUR ORGANIZATION (√)	OTHER ORGANIZATION (GIVE NAME)	AT FIXED INTERVALS (√)	BEFORE OR AFTER USE (√)	BEFORE AND AFTER USE (√)	ONLY AFTER REPAIR (√)	ONLY WHEN NEW (√)	(√)
Sta's. 1-11 MODEL 9040-2 PLESSEY STD	7/76		NRCC	1 YR.					
Sta's. 12-16 MODEL 9040 PLESSEY STD	7/76		NRCC	1 YR.					

USCOMM-DC 44289-P72

```
022TR29731   12THE INSTITUTE OF MARINE SCIENCE IS RESPONSIBLE FOR THIS DATA WHICH WAS COLLECTED                    1
        ?????
STATION NUMBER HAS CHANGED WITHOUT A MASTER
*************************************************************************************************************
C22TR29731   13THE INSTITUTE OF MARINE SCIENCE IS RESPONSIBLE FOR THIS DATA WHICH WAS COLLECTED                    1
        ?????
STATION NUMBER HAS CHANGED WITHOUT A MASTER
*************************************************************************************************************
C22TR29731   14THE INSTITUTE OF MARINE SCIENCE IS RESPONSIBLE FOR THIS DATA WHICH WAS COLLECTED                    1
        ?????
STATION NUMBER HAS CHANGED WITHOUT A MASTER
*************************************************************************************************************
022TR29731   15THE INSTITUTE OF MARINE SCIENCE IS RESPONSIBLE FOR THIS DATA WHICH WAS COLLECTED                    1
        ?????
STATION NUMBER HAS CHANGED WITHOUT A MASTER
*************************************************************************************************************
C22TR29731   16THE INSTITUTE OF MARINE SCIENCE IS RESPONSIBLE FOR THIS DATA WHICH WAS COLLECTED                    1
        ?????
STATION NUMBER HAS CHANGED WITHOUT A MASTER
THE FIELDS BELOW WERE CHECKED AS FOLLOWS(S=SIGN/B=BLANK/T=TAXONOMIC CODE/N=NUMERICS/M=MANDATORY NUMERIC
```

TYPE	REC	POS	LENGTH	NAME	RANGE TESTED LOW	RANGE TESTED HIGH	ACTUAL RANGE LOWEST	ACTUAL RANGE HIGHEST	MEAN	S. DEV	COUNT
C	2	30	1	LON HEM	W	W					
M	2	16	2	LAT DEG	40	89	54	59	56.75	1.67	16
M	2	18	2	LAT MIN	00	59	0	55	30.68	18.87	16
N	2	20	2	LAT MIN 1/100	00	99	0	90	51.87	32.64	16
C	2	22	1	LAT HEM	N	N					
M	2	23	3	LON DEG	50	179	160	175	167.81	4.12	16
M	2	26	2	LON MIN	00	59	2	59	30.37	18.82	16
N	2	28	2	LON MIN 1/100	00	99	0	90	38.68	21.82	16
N	2	41	5	NUM. OF SCANS	NO RANGE CHECKING		53	1002	147.37	222.48	16
M	2	46	2	OBS YR	74	80	77	77	77.00	00	16
M	2	48	2	OBS MON	01	12	4	5	4.12	38	16
M	2	50	2	OBS DAY	01	31	1	30	19.75	8.38	16
M	2	52	2	OBS HR	00	23	2	22	13.81	5.27	16
N	2	54	2	OBS MIN	00	59	5	56	38.68	13.60	16
N	2	56	1	DEPTH INTERVAL INDIC	0	1	1	1	1.00	00	16
N	2	57	3	DEPTH INTVL.	00	99	10	10	10.00	00	16
N	2	60	4	BAROMETRIC PRESSURE	0944	1050	985	1029	1003.87	12.61	16
N	2	65	4	WET-BULB TEMPERATURE	-300	0400	-25	35	5.87	19.39	16
N	2	69	4	DRY-BULB TEMPERATURE	-300	0400	-22	45	11.12	21.40	16
N	2	73	2	WIND DIRECTION	00	36	4	34	18.68	9.62	16
N	2	75	2	WIND SPEED	00	70	5	30	15.18	6.49	16
N	2	77	1	WEATHER	NO RANGE CHECKING		1	7	2.53	1.56	13
N	2	78	1	SEA STATE	NO RANGE CHECKING		0	5	2.93	1.26	16
N	2	79	1	VISIBILITY	NO RANGE CHECKING		4	7	6.19	1.10	15
N	2	81	1	CLOUD AMOUNT	NO RANGE CHECKING		4	8	7.23	1.42	13
N	2	108	5	BOTTOM DEPTH	00000	11000	60	1850	208.00	425.12	16
N	3	16	4	DEPTH1	0000	6000	5	1000	246.46	294.48	462
N	3	20	1	DEPTH1 1/1000	0	9	0	0	00	00	478
N	3	36	4	DEPTH2	0001	6000	1	1001	240.13	293.57	475
N	3	40	1	DEPTH2 1/1000	0	9	0	0	00	00	478
N	3	56	4	DEPTH3	0002	6000	2	997	240.27	292.18	472
N	3	60	1	DEPTH3 1/1000	0	9	0	0	00	00	472
N	3	76	4	DEPTH4	0003	6000	3	998	242.57	293.07	468
N	3	80	1	DEPTH4 1/1000	0	9	0	0	00	00	468
N	3	96	4	DEPTH5	0004	6000	4	999	244.49	293.79	465
N	3	100	1	DEPTH5 1/1000	0	9	0	0	00	00	465
N	3	21	4	TEMPER1	-200	2000	-170	412	200.71	192.81	478

N	3	25	1	TEMPER1 1/1000	0	9	0	9	4.54	2.96	478
N	3	41	4	TEMPER2	-200	2000	-169	413	201.64	192.35	475
N	3	45	1	TEMPER2 1/1000	0	9	0	9	4.56	2.92	478
N	3	61	4	TEMPER3	-200	2000	-169	414	202.52	192.14	472
N	3	65	1	TEMPER3 1/1000	0	9	0	9	4.35	2.86	472
N	3	81	4	TEMPER4	-200	2000	-169	412	203.29	191.15	468
N	3	85	1	TEMPER4 1/1000	0	9	0	9	4.45	2.86	468
N	3	101	4	TEMPER5	-200	2000	-169	412	203.50	191.05	465
N	3	105	1	TEMPER5 1/1000	0	9	0	9	4.23	2.89	465
N	3	26	4	SALINITY1	1000	3650	3117	3435	3287.85	95.58	478
N	3	46	4	SALINITY2	1000	3650	2427	3435	3285.30	104.55	475
N	3	66	4	SALINITY3	1000	3650	3117	3435	3287.79	95.28	472
N	3	86	4	SALINITY4	1000	3650	3117	3435	3289.73	95.12	468
N	3	106	4	SALINITY5	1000	3650	3116	3435	3290.47	95.05	465
N	3	31	4	SIGMA-T1	0315	3000	2509	2742	2628.23	69.32	478
N	3	51	4	SIGMA-T2	0315	3000	1935	2742	2626.15	77.67	475
N	3	71	4	SIGMA-T3	0315	3000	2509	2742	2628.12	69.31	472
N	3	91	4	SIGMA-T4	0315	3000	2509	2742	2629.68	69.34	468
N	3	111	4	SIGMA-T5	0315	3000	2509	2742	2630.23	69.27	465
N	3	35	1	SCANCON1	NO RANGE CHECKING		1	3	1.19	49	478
N	3	55	1	SCANCON2	NO RANGE CHECKING		1	3	1.21	50	478
N	3	75	1	SCANCON3	NO RANGE CHECKING		0	3	1.14	44	478
N	3	95	1	SCANCON4	NO RANGE CHECKING		0	3	1.15	39	478
N	3	115	1	SCANCON5	NO RANGE CHECKING		0	3	1.13	40	478
N	4	16	5	DEPTH6	00005	60000	NO VALUES FOUND FOR THIS PARAMETER				
N	4	36	5	DEPTH7	00006	60000	NO VALUES FOUND FOR THIS PARAMETER				
N	4	56	5	DEPTH8	00007	60000	NO VALUES FOUND FOR THIS PARAMETER				
N	4	76	5	DEPTH9	00008	60000	NO VALUES FOUND FOR THIS PARAMETER				
N	4	96	5	DEPTH10	00009	60000	NO VALUES FOUND FOR THIS PARAMETER				
N	4	21	5	DISSOLVOXYGEN1	00000	15000	NO VALUES FOUND FOR THIS PARAMETER				
N	4	41	5	DISSOLVOXYGEN2	00000	15000	NO VALUES FOUND FOR THIS PARAMETER				
N	4	61	5	DISSOLVOXYGEN3	00000	15000	NO VALUES FOUND FOR THIS PARAMETER				
N	4	81	5	DISSOLVOXYGEN4	00000	15000	NO VALUES FOUND FOR THIS PARAMETER				
N	4	101	5	DISSOLVOXYGEN5	00000	15000	NO VALUES FOUND FOR THIS PARAMETER				
N	4	35	1	SCANCON6	NO RANGE CHECKING		NO VALUES FOUND FOR THIS PARAMETER				
N	4	55	1	SCANCON7	NO RANGE CHECKING		NO VALUES FOUND FOR THIS PARAMETER				
N	4	74	1	SCANCON8	NO RANGE CHECKING		NO VALUES FOUND FOR THIS PARAMETER				
N	4	95	1	SCANCON9	NO RANGE CHECKING		NO VALUES FOUND FOR THIS PARAMETER				
N	4	115	1	SCANCON10	NO RANGE CHECKING		NO VALUES FOUND FOR THIS PARAMETER				
N	4	26	5	TRANSMISSIVITY1	00000	99000	NO VALUES FOUND FOR THIS PARAMETER				
N	4	46	5	TRANSMISSIVITY2	00000	99000	NO VALUES FOUND FOR THIS PARAMETER				
N	4	66	5	TRANSMISSIVITY3	00000	99000	NO VALUES FOUND FOR THIS PARAMETER				
N	4	86	5	TRANSMISSIVITY4	00000	99000	NO VALUES FOUND FOR THIS PARAMETER				
N	4	106	5	TRANSMISSIVITY5	00000	99000	NO VALUES FOUND FOR THIS PARAMETER				
B	4	31	4								0
B	4	51	4								0
B	4	71	4								0
B	4	91	4								0
B	4	111	4								0

RECORDS READ : 1214