

DDF-13:1:24

DATA DOCUMENTATION FORM

TR2974

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-R26

319143

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 AC 248 FL ID 248IMS	
4. PLATFORM NAME(S) ACONA	5. PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.) SHIP	6. PLATFORM AND OPERATOR NATIONALITY(IES) U.S. U.S.	7. DATES FROM: 08/08/77 TO: 08/15/77
8. ARE DATA PROPRIETARY? <input checked="" type="checkbox"/> NO <input type="checkbox"/> 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 MAR. SQ. 196	
9. ARE DATA DECLARED NATIONAL PROGRAM (DNP)? (I.E., SHOULD THEY BE INCLUDED IN WORLD DATA CENTERS HOLDINGS FOR INTERNATIONAL EXCHANGE?) <input checked="" type="checkbox"/> NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> PART (SPECIFY BELOW)		<p>A Marsden square grid map of the North Pacific Ocean, spanning from 100°W to 100°E and 60°N to 10°S. A shaded rectangular area is marked in the North Pacific, roughly between 150°W and 160°W longitude and 50°N and 60°N latitude, corresponding to the 'GENERAL AREA MAR. SQ. 196' label.</p>	
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			

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
TEMPERATURE	°C	DSR THERMOMETERS + PLESSEY STD	"	N/A
DEPTH	METERS (1M = 1db)	THERMOMETRIC DEPTH + PLESSEY STD	"	N/A

IMS STD/CID DATA REDUCTION

July 1976

STDCOPY

Raw, 7-track mag tapes from 8400 or 8114 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.

STDAV checks each parameter to insure it falls within sensor limits. Parameters are grouped into one meter intervals (lb = ldb) 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 DDP.
- 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 falls 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.

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

<p>5. RECORDING MODE</p> <p><input type="checkbox"/> BCD <input type="checkbox"/> BINARY</p> <p><input type="checkbox"/> ASCII <input checked="" type="checkbox"/> EBCDIC</p> <p><input type="checkbox"/> _____</p>	<p>9. LENGTH OF INTER-RECORD GAP (IF KNOWN) <input type="checkbox"/> 3/4 INCH <input checked="" type="checkbox"/> .5 - .6 inch</p>
<p>6. NUMBER OF TRACKS (CHANNELS)</p> <p><input type="checkbox"/> SEVEN</p> <p><input checked="" type="checkbox"/> NINE</p> <p><input type="checkbox"/> _____</p>	<p>10. END OF FILE MARK <input type="checkbox"/> OCTAL 17 <input checked="" type="checkbox"/> octal 23</p>
<p>7. PARITY</p> <p><input checked="" type="checkbox"/> ODD</p> <p><input type="checkbox"/> EVEN</p>	<p>11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME KEY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER)</p> <p style="text-align: center;">289 022 248IMS ACONA 248 STA'S. 1-20 DR. ROYER 08/08/77 - 08/15/77 9 TRK, 800BPI, EBCDIC, NO LABEL, ODD</p>
<p>8. DENSITY</p> <p><input type="checkbox"/> 200 DPI <input type="checkbox"/> 1600 DPI</p> <p><input type="checkbox"/> 556 DPI</p> <p><input checked="" type="checkbox"/> 800 DPI</p> <p><input type="checkbox"/> _____</p>	<p>12. PHYSICAL BLOCK LENGTH IN BYTES</p> <p style="text-align: center;">120 bytes/block</p> <p>13. LENGTH OF BYTES IN BITS</p> <p style="text-align: center;">8 bit bytes</p>

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

[Empty box for listing record types]

2. GIVE BRIEF DESCRIPTION OF FILE ORGANIZATION

[Empty box for file organization description]

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

4. RESPONSIBLE COMPUTER SPECIALIST:

NAME AND PHONE NUMBER D752-NOAA/EDS/NODC--2026347505
ADDRESS WASHINGTON, DC 20235

COMPLETE THIS SECTION IF DATA ARE ON MAGNETIC TAPE

<p>5. RECORDING MODE</p> <p><input type="checkbox"/> BCD <input type="checkbox"/> BINARY</p> <p><input type="checkbox"/> ASCII <input checked="" type="checkbox"/> EBCDIC</p> <p><input type="checkbox"/> _____</p>	<p>9. LENGTH OF INTER-RECORD GAP (IF KNOWN) <input type="checkbox"/> 3/4 INCH</p> <p><input type="checkbox"/> _____</p>
<p>6. NUMBER OF TRACKS (CHANNELS)</p> <p><input type="checkbox"/> SEVEN</p> <p><input checked="" type="checkbox"/> NINE</p> <p><input type="checkbox"/> _____</p>	<p>10. END OF FILE MARK</p> <p><input type="checkbox"/> OCTAL 17</p> <p><input type="checkbox"/> _____</p>
<p>7. PARITY</p> <p><input checked="" type="checkbox"/> ODD</p> <p><input type="checkbox"/> EVEN</p>	<p>11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME LAY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER)</p> <p><u>001466 (1,5L)</u></p> <p><u>DSN=TR 297A</u></p>
<p>8. DENSITY</p> <p><input type="checkbox"/> 200 BPI <input checked="" type="checkbox"/> 1600 BPI</p> <p><input type="checkbox"/> 556 BPI</p> <p><input type="checkbox"/> 800 BPI</p> <p><input type="checkbox"/> _____</p>	<p>12. PHYSICAL BLOCK LENGTH IN BYTES</p> <p><u>4800</u></p> <p>13. LENGTH OF BYTES IN BITS</p> <p><u>120</u></p>

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		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
FILE TYPE "22" AS FROM THIS TYPE.	DESIGNATED	BY	GCSEP	AND NODC.	THERE ARE NO INTENDED DEVIATIONS

RECORD NAME TEXT RECORD (OPTIONAL)

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN Bytes (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
File Type	1	3	Bytes	A3	Always '0E2'
File Identification	4	6	Bytes	A6	
Record Type	10	1	Bytes	I1	Always '1'
Cast Number	11	5	Bytes	A5	Analogous to NODC Station Number
Text	16	100	Bytes	100A1	Additional pertinent information
Sequence Number	116	5	Bytes	I5	Ascending numeric, used for sorting
MASTER RECORD (REQUIRED THRU BYTES 59)					
File Type	1	3	Bytes	A3	Always '022'
File Identification	4	6	Bytes	A6	
Record Type	10	1	Bytes	I1	Always '2'
Cast Number	11	5	Bytes	A5	Analogous to NODC Station Number
Latitude					
Degrees	16	2	Bytes	I2	
Minutes	18	2	Bytes	I2	
Hundredths of Minutes	20	2	Bytes	I2	
Hemisphere	22	1	Bytes	A1	'N' or 'S'
Longitude					
Degrees	23	3	Bytes	I3	
Minutes	26	2	Bytes	I2	
Hundredths of Minutes	28	2	Bytes	I2	
Hemisphere	30	1	Bytes	A1	'E' or 'W'
Cruise Identification	31	10	Bytes	10A1	Originator Cruise Identification
Number of Scans	41	5	Bytes	I5	Number of scans in a 'station' (There are five scans per record type '3')
Year	46	2	Bytes	I2	Last two digits of year
Month	48	2	Bytes	I2	1-12
Day	50	2	Bytes	I2	1-31
Hour	52	2	Bytes	I2	0-23
Minutes	54	2	Bytes	I2	0-59
Depth Interval Indicator	56	1	Bytes	I1	'0' equals unequally spaced depths '1' equals equal spaced depths
Depth Interval	57	3	Bytes	I3	When above equals '1', the depth interval, to tenths of meters reported.
Barometric pressure	60	5	Bytes	I5	Millibars to tenths.

GMT

RECORD FORMAT DESCRIPTION STD

2-20 70

RECORD NAME MASTER RECORD CONTINUED

14. FIELD NAME	15. POSITION FROM -1 MEASURED IN Bytes (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
Wet bulb temperature	65	4	Bytes	I4	Degrees C to tenths
Dry bulb temperature	69	4	Bytes	I4	Degrees C to tenths
Wind direction	73	2	Bytes	I2	Tens of degrees WMO Codes 0855 and 0877
Wind speed	75	2	Bytes	I2	Whole knots
Weather Code	77	1	Bytes	I1	WMO 4501
Sea State Code	78	1	Bytes	I1	WMO 3700
Visibility Code	79	1	Bytes	I1	WMO 4300
Cloud Type Code	80	1	Bytes	A1	WMO 0500
Cloud Amount Code	81	1	Bytes	I1	WMO 2700
Instrument Information	82	20	Bytes	20A1	Type and Serial Number
Location Name	102	6	Bytes	A6	OCSEP Internal Location Code
Depth to bottom	108	5	Bytes	I5	To whole meters
Maximum depth of cast	113	4	Bytes	I4	To whole meters
Blank	117	4	Bytes	4X	
DETAIL RECORD (REQUIRED)					
File Type	1	3	Bytes	A3	Always '022'
File Identification	4	6	Bytes	A6	
Record Type	10	1	Bytes	I1	Always '3'
Cast Number	11	5	Bytes	A5	Analogous to NODC Station Number
Depth	16	5	Bytes	I5	Meters to tenths
Temperature	21	5	Bytes	I5	Degrees C to thousandths
Salinity	26	5	Bytes	I5	P.P.T. to thousandths
Sigma-t	31	4	Bytes	I4	To hundredths
Scan Condition Code	35	1	Bytes	A1	Code describing how data arrived at
SCAN DATA	36	4(20)	Bytes	4(3I5,I4,A1)	Repetition of above
Sequence Number	116	5	Bytes	I5	Ascending numeric, used for sorting
Blanks are used when significance of field indicated exceeds what is measured.					

RECORD FORMAT DESCRIPTION STD

2-20-70

RECORD NAME MASTER RECORD CONTINUED

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN Bytes (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
Wet bulb temperature	65	4	Bytes	I4	Degrees C to tenths
Dry bulb temperature	69	4	Bytes	I4	Degrees C to tenths
Wind direction	73	2	Bytes	I2	Tens of degrees WMO Codes 0855 and 0877
Wind speed	75	2	Bytes	I2	Whole knots
Weather Code	77	1	Bytes	I1	WMO 4501
Sea State Code	78	1	Bytes	I1	WMO 3700
Visibility Code	79	1	Bytes	I1	WMO 4300
Cloud Type Code	80	1	Bytes	A1	WMO 0500
Cloud Amount Code	81	1	Bytes	I1	WMO 2700
Instrument Information	82	20	Bytes	20A1	Type and Serial Number
Location Name	102	6	Bytes	A6	OCSEP Internal Location Code
Depth to bottom	108	5	Bytes	I5	To whole meters
Maximum depth of cast	113	4	Bytes	I4	To whole meters
Blank	117	4	Bytes	4X	
DETAIL RECORD (REQUIRED)					
File Type	1	3	Bytes	A3	Always '022'
File Identification	4	6	Bytes	A6	
Record Type	10	1	Bytes	I1	Always '3'
Cast Number	11	5	Bytes	A5	Analogous to NODC Station Number
Depth	16	5	Bytes	I5	Meters to tenths
Temperature	21	5	Bytes	I5	Degrees C to thousandths
Salinity	26	5	Bytes	I5	P.P.T. to thousandths
Sigma-t	31	4	Bytes	I4	To hundredths
Scan Condition Code	35	1	Bytes	A1	Code describing how data arrived at
SCAN DATA	36	4(20)	Bytes	4(3I5,I4,A1)	Repetition of above
Sequence Number	116	5	Bytes	I5	Ascending numeric, used for sorting
Blanks are used when significance of field indicated exceeds what is measured.					

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 CALI- BRATED (✓)
		YOUR ORGANIZATION (✓)	OTHER ORGANIZATION (GIVE NAME)	AT FIXED INTERVALS (✓)	BEFORE OR AFTER USE (✓)	BEFORE AND AFTER USE (✓)	ONLY AFTER REPAIR (✓)	ONLY WHEN NEW (✓)	
CTD MODEL 9040 PLESSEY	7/76		NRCC	1 YR.					

78 0311

NANSEN REF. #

319143

MULDARS TRACK #

TR2974

MONITOR: CONTACT

J. Frank

LOCATION OF F022 SOURCE

Archives (TR2974)

RECORD ALL ERRORS FOUND

CONSEC(S)

ERRORS FOUND

None

Parameter quality indicators were applied to 2 stations

C22TR29741 12THE INSTITUTE OF MARINE SCIENCE IS RESPONSIBLE FOR THIS DATA WHICH WAS COLLECTED 1
 ?????
 STATION NUMBER HAS CHANGED WITHOUT A MASTER

 C22TR29741 13THE INSTITUTE OF MARINE SCIENCE IS RESPONSIBLE FOR THIS DATA WHICH WAS COLLECTED 1
 ?????
 STATION NUMBER HAS CHANGED WITHOUT A MASTER

 C22TR29741 14THE INSTITUTE OF MARINE SCIENCE IS RESPONSIBLE FOR THIS DATA WHICH WAS COLLECTED 1
 ?????
 STATION NUMBER HAS CHANGED WITHOUT A MASTER

 C22TR29741 15THE INSTITUTE OF MARINE SCIENCE IS RESPONSIBLE FOR THIS DATA WHICH WAS COLLECTED 1
 ?????
 STATION NUMBER HAS CHANGED WITHOUT A MASTER

 C22TR29742 1559 30N1512650W248 2277 81510491 1010163 105 11019 714 CTD MODEL9040 SH9341KISS92 137 126
 ??
 ILLEGAL BLANK FIELD=LAT MIN

 C22TR29741 16THE INSTITUTE OF MARINE SCIENCE IS RESPONSIBLE FOR THIS DATA WHICH WAS COLLECTED 1
 ?????
 STATION NUMBER HAS CHANGED WITHOUT A MASTER

 C22TR29741 17THE INSTITUTE OF MARINE SCIENCE IS RESPONSIBLE FOR THIS DATA WHICH WAS COLLECTED 1
 ?????
 STATION NUMBER HAS CHANGED WITHOUT A MASTER

 C22TR29741 18THE INSTITUTE OF MARINE SCIENCE IS RESPONSIBLE FOR THIS DATA WHICH WAS COLLECTED 1
 ?????
 STATION NUMBER HAS CHANGED WITHOUT A MASTER

 C22TR29741 19THE INSTITUTE OF MARINE SCIENCE IS RESPONSIBLE FOR THIS DATA WHICH WAS COLLECTED 1
 ?????
 STATION NUMBER HAS CHANGED WITHOUT A MASTER

 C22TR29741 20THE 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		ACTUAL RANGE		MEAN	S. DEV	COUNT
					LOW	HIGH	LOWEST	HIGHEST			
C	2	30	1	LON HEM	W	W					
M	2	16	2	LAT DEG	40	89	57	59	58.14	1.17	20
M	2	18	2	LAT MIN	00	59	1	54	32.10	18.91	19
N	2	20	2	LAT MIN 1/100	00	99	0	80	26.94	29.02	20
C	2	22	1	LAT HEM	N	N					
M	2	23	3	LON DEG	50	179	149	152	150.34	1.88	20
M	2	26	2	LON MIN	00	59	0	47	28.04	12.91	20
N	2	28	2	LON MIN 1/100	00	99	0	80	25.00	28.72	20
N	2	41	3	NUM. OF SCANS	NO	RANGE CHECKING	42	253	129.19	57.17	20
M	2	46	2	OBS YR	74	80	77	77	77.00	00	20
M	2	48	2	OBS MON	01	12	8	8	8.00	00	20
M	2	50	2	OBS DAY	01	31	10	16	13.59	1.87	20
M	2	52	2	OBS HR	00	23	1	23	9.79	7.35	20
N	2	54	2	OBS MIN	00	59	1	50	32.44	14.42	20
N	2	56	1	DEPTH INTERVAL INUIC	0	1	1	1	1.00	00	20
N	2	57	3	DEPTH INTVL	00	99	10	10	10.00	00	20
N	2	60	4	BAROMETRIC PRESSURE	0944	1050	1007	1022	1017.75	3.56	20

N	2	65	4	WET-BULB TEMPERATURE	-300	0400	101	128	115.59	7.83	20
N	2	69	4	DRY-BULB TEMPERATURE	-300	0400	106	135	118.79	8.47	20
N	2	73	2	WIND DIRECTION	00	36	0	20	12.29	6.97	20
N	2	75	2	WIND SPEED	00	70	0	27	11.59	8.16	20
N	2	77	1	WEATHER	NO RANGE CHECKING		1	6	2.25	1.37	20
N	2	78	1	SEA STATE	NO RANGE CHECKING		3	5	4.00	4.4	20
N	2	79	1	VISIBILITY	NO RANGE CHECKING		5	7	6.00	35	16
N	2	81	1	CLOUD AMOUNT	NO RANGE CHECKING		4	8	7.00	1.47	12
N	2	108	5	BOTTOM DEPTH	00000	11000	68	265	147.44	51.70	20
N	3	16	4	DEPTH1	0000	6000	5	250	78.29	54.61	304
N	3	20	1	DEPTH1 1/1000	0	9	0	0	00	00	524
N	3	36	4	DEPTH2	0001	6000	1	251	75.92	55.56	520
N	3	40	1	DEPTH2 1/1000	0	9	0	0	00	00	520
N	3	56	4	DEPTH3	0002	6000	2	252	76.73	55.73	514
N	3	60	1	DEPTH3 1/1000	0	9	0	0	00	00	514
N	3	76	4	DEPTH4	0003	6000	3	248	77.39	55.24	513
N	3	80	1	DEPTH4 1/1000	0	9	0	0	00	00	513
N	3	96	4	DEPTH5	0004	6000	4	249	78.39	55.24	513
N	3	100	1	DEPTH5 1/1000	0	9	0	0	00	00	513
N	3	21	4	TEMPER1	-200	2000	527	1938	756.02	214.19	524
N	3	25	1	TEMPER1 1/1000	0	9	0	9	4.52	2.82	524
N	3	41	4	TEMPER2	-200	2000	524	1938	753.73	212.04	520
N	3	45	1	TEMPER2 1/1000	0	9	0	9	4.50	2.88	520
N	3	61	4	TEMPER3	-200	2000	522	1948	750.60	210.84	514
N	3	65	1	TEMPER3 1/1000	0	9	0	9	4.29	2.81	514
N	3	81	4	TEMPER4	-200	2000	521	1930	747.43	208.66	513
N	3	85	1	TEMPER4 1/1000	0	9	0	9	4.44	2.87	513
N	3	101	4	TEMPER5	-200	2000	521	1910	743.28	206.26	513
N	3	105	1	TEMPER5 1/1000	0	9	0	9	4.32	2.94	513
N	3	26	4	SALINITY1	1000	3650	2631	3330	3224.94	84.40	524
N	3	46	4	SALINITY2	1000	3650	2631	3329	3225.54	83.02	520
N	3	66	4	SALINITY3	1000	3650	2673	3330	3226.69	81.22	514
N	3	86	4	SALINITY4	1000	3650	2695	3329	3227.52	79.53	513
N	3	106	4	SALINITY5	1000	3650	2707	3329	3228.68	78.02	513
N	3	31	4	SIGMA-T1	0315	3000	1966	2634	2520.12	92.35	524
N	3	51	4	SIGMA-T2	0315	3000	1966	2633	2520.96	90.80	520
N	3	71	4	SIGMA-T3	0315	3000	1996	2634	2522.28	89.65	514
N	3	91	4	SIGMA-T4	0315	3000	2019	2634	2523.48	88.24	513
N	3	111	4	SIGMA-T5	0315	3000	2036	2634	2524.98	86.49	513
N	3	35	1	SCANCON1	NO RANGE CHECKING		1	3	1.39	53	524
N	3	55	1	SCANCON2	NO RANGE CHECKING		1	3	1.42	52	520
N	3	75	1	SCANCON3	NO RANGE CHECKING		1	3	1.42	52	514
N	3	95	1	SCANCON4	NO RANGE CHECKING		1	3	1.41	51	513
N	3	115	1	SCANCON5	NO RANGE CHECKING		1	2	1.41	49	513
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	DISSOLV OXYGEN1	00000	15000	NO	'VALUES FOUND FOR THIS PARAMETER			
N	4	41	5	DISSOLV OXYGEN2	00000	15000	NO	'VALUES FOUND FOR THIS PARAMETER			
N	4	61	5	DISSOLV OXYGEN3	00000	15000	NO	'VALUES FOUND FOR THIS PARAMETER			
N	4	81	5	DISSOLV OXYGEN4	00000	15000	NO	'VALUES FOUND FOR THIS PARAMETER			
N	4	101	5	DISSOLV OXYGEN5	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
N	4	66	5	TRANSMISSIVITY3	00000	99000
N	4	86	5	TRANSMISSIVITY4	00000	99000
N	4	106	5	TRANSMISSIVITY5	00000	99000
B	4	31	4			
B	4	51	4			
B	4	71	4			
B	4	91	4			
B	4	111	4			

NO VALUES FOUND FOR THIS PARAMETER
 NO VALUES FOUND FOR THIS PARAMETER
 NO VALUES FOUND FOR THIS PARAMETER
 NO VALUES FOUND FOR THIS PARAMETER

0
0
0
0
0

RECORDS READ :

904

Password:

accNo	fleA	refNo	proj	inst	ship	startDate	cruise	catId
7800311	F022	TR2974	0081	31C1	31AC	1977/08/10	248IMS	306814
7800311	C022	319143	0081	31C1	31AC	1977/08/10	TR2974	306815

(2 rows affected)

Password:

accNo	fileA	refNo	ship	staCnt	recCnt	startDate	endDate
7800311	F022	TR2974	31AC	20	904	77/08/10	77/08/16
7800311	C022	319143	31AC	20	20	77/08/10	77/08/16

(2 rows affected)