

Cruise # 31924M C022

ACCESSION NUMBER

8100441

DOI = A:4:03

DATA DOCUMENTATION FORM

TR6824

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

F022

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		3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT	
		ACONA 286	
4. PLATFORM NAME(S)	5. PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.)	6. PLATFORM AND OPERATOR NATIONALITY(IES)	7. DATES
R/V ACONA	SHIP	PLATFORM	OPERATOR
		USA	USA
		FROM: MO/DAY/YR	TO: MO/DAY/YR
		09/04/79	09/11/79
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.	
9. ARE DATA DECLARED NATIONAL PROGRAM (DNP)? (I.E., SHOULD THEY BE INCLUDED IN WORLD DATA CENTERS HOLDINGS FOR INTERNATIONAL EXCHANGE?) <input type="checkbox"/> NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> PART (SPECIFY BELOW)		GENERAL AREA	
10. PERSON TO WHOM INQUIRIES CONCERNING DATA SHOULD BE ADDRESSED WITH TELEPHONE NUMBER (AND ADDRESS IF OTHER THAN IN ITEM-1) DATA MANAGEMENT, IMS CYDNEY HANSEN (907) 479-7836 (907) 479-7074		<p>The map shows a grid of latitude and longitude from 100°W to 100°E and 20°N to 70°N. Darkened squares indicate data collection locations, primarily in the North Pacific Ocean between 120°W and 180°W, and 40°N and 60°N.</p>	

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	DESCRIPTION OF BASIC PROCESSING ATTACHED	N/A
TEMPERATURE	°C	DSR THERMOMETERS & PLESSEY STD	"	N/A
DEPTH	0.1m (1m = 1db)	THERMOMETRIC DEPTH & PLESSEY STD	"	N/A

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**

THREE RECORD TYPES WITHIN FILE TYPE 22

Designated by byte 10:

"1" for Text Record
"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

<input type="checkbox"/> PL-1	<input type="checkbox"/> ALGOL	<input type="checkbox"/> COBOL
<input checked="" type="checkbox"/> FORTRAN	<input type="checkbox"/> _____	LANGUAGE

4. RESPONSIBLE COMPUTER SPECIALIST:

NAME AND PHONE NUMBER Cydney Hansen, (907)479-7836
ADDRESS Institute of Marine Science, Univ. of Alaska, Fairbanks, Alaska 99701

COMPLETE THIS SECTION IF DATA ARE ON MAGNETIC TAPE

<p>5. RECORDING MODE</p> <table style="width: 100%; border: none;"> <tr> <td><input type="checkbox"/> BCD</td> <td><input type="checkbox"/> BINARY</td> </tr> <tr> <td><input type="checkbox"/> ASCII</td> <td><input checked="" type="checkbox"/> EBCDIC</td> </tr> <tr> <td colspan="2"><input type="checkbox"/> _____</td> </tr> </table>	<input type="checkbox"/> BCD	<input type="checkbox"/> BINARY	<input type="checkbox"/> ASCII	<input checked="" type="checkbox"/> EBCDIC	<input type="checkbox"/> _____		<p>9. LENGTH OF INTER-RECORD GAP (IF KNOWN) <input type="checkbox"/> 3/4 INCH <input checked="" type="checkbox"/> .5 inch - 0.6 inch</p>		
<input type="checkbox"/> BCD	<input type="checkbox"/> BINARY								
<input type="checkbox"/> ASCII	<input checked="" type="checkbox"/> EBCDIC								
<input type="checkbox"/> _____									
<p>6. NUMBER OF TRACKS (CHANNELS)</p> <table style="width: 100%; border: none;"> <tr> <td><input type="checkbox"/> SEVEN</td> </tr> <tr> <td><input checked="" type="checkbox"/> NINE</td> </tr> <tr> <td><input type="checkbox"/> _____</td> </tr> </table>	<input type="checkbox"/> SEVEN	<input checked="" type="checkbox"/> NINE	<input type="checkbox"/> _____	<p>10. END OF FILE MARK</p> <table style="width: 100%; border: none;"> <tr> <td><input type="checkbox"/> OCTAL 17</td> </tr> <tr> <td><input checked="" type="checkbox"/> octal 23</td> </tr> </table>	<input type="checkbox"/> OCTAL 17	<input checked="" type="checkbox"/> octal 23			
<input type="checkbox"/> SEVEN									
<input checked="" type="checkbox"/> NINE									
<input type="checkbox"/> _____									
<input type="checkbox"/> OCTAL 17									
<input checked="" type="checkbox"/> octal 23									
<p>7. PARITY</p> <table style="width: 100%; border: none;"> <tr> <td><input checked="" type="checkbox"/> ODD</td> </tr> <tr> <td><input type="checkbox"/> EVEN</td> </tr> </table>	<input checked="" type="checkbox"/> ODD	<input type="checkbox"/> EVEN	<p>11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME LAY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER)</p> <p>PA289 022 286IMS ACONA 286 09/04/79 - 09/11/79 Stations: 29-65,67-75. Dr. Royer 9trk,800BPI,EBCDIC,NO LABEL,ODD PARITY</p>						
<input checked="" type="checkbox"/> ODD									
<input type="checkbox"/> EVEN									
<p>8. DENSITY</p> <table style="width: 100%; border: none;"> <tr> <td><input type="checkbox"/> 200 BPI</td> <td><input type="checkbox"/> 1600 BPI</td> </tr> <tr> <td><input type="checkbox"/> 556 BPI</td> <td></td> </tr> <tr> <td><input checked="" type="checkbox"/> 800 BPI</td> <td></td> </tr> <tr> <td colspan="2"><input type="checkbox"/> _____</td> </tr> </table>	<input type="checkbox"/> 200 BPI	<input type="checkbox"/> 1600 BPI	<input type="checkbox"/> 556 BPI		<input checked="" type="checkbox"/> 800 BPI		<input type="checkbox"/> _____		<p>12. PHYSICAL BLOCK LENGTH IN BYTES 5-120 bytes/block</p> <p>13. LENGTH OF BYTES IN BITS 8 bits/byte</p>
<input type="checkbox"/> 200 BPI	<input type="checkbox"/> 1600 BPI								
<input type="checkbox"/> 556 BPI									
<input checked="" type="checkbox"/> 800 BPI									
<input type="checkbox"/> _____									

RECORD FORMAT DESCRIPTION

RECORD NAME STD RECORD FORMAT DESCRIPTION, FILE TYPE 22

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN <small>(e.g., bits, bytes)</small>	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
<p>FILE TYPE "22" AS DESIGNATED BY OCSEP AND NODC. THERE ARE NO INTENDED DEVIATIONS FROM THIS TYPE, EXCEPT:</p> <ol style="list-style-type: none"> 1. Col.45-49 Depth in meters (I5 to 1/10ths) 2. Col.50-53 Salinity in 0/00 (I4 to 1/100ths) 					

IMS STD/CTD DATA REDUCTION

NOVEMBER 1979

STDCP

Raw, 7 or 9-track magnetic 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 entered header data and all STD values on the 7-track tape. Output from this program is input for STDAV.

STDCP PRINT OUT

- 1) Print out the "FISH" serial number and the equations used to convert frequency to parameters for each FISH used.
- 2) If conductivity ratios are converted to salinities at this point, the conversion routines are printed out.
- 3) Input from 7 or 9-track and output to 9-track is documented. (This includes all headers, end of files, and record number indicators).

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 for standard deviations for temperature and salinity. Generally, values for temperature and salinity 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.

IES STD/CTD DATA REDUCTION

NOVEMBER 1979

STDAV

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

STDAV checks each parameter to insure it falls within sensor limits. Parameters are grouped into one meter intervals (1 m = 1 db) and averaged. Field corrections are added to the one meter averages. (NOTE: depths, and their related data values, are accepted for inclusion in averaging, if and only if, depth H is greater than or equal to depth $H + 1$).

STDAV PRINT OUT

STDAV print out will include the following in addition to header and data:

- 1) All header information and corrected data in one meter intervals.
- 2) Field corrections used, to include mean and standard deviation for each parameter.
- 3) Flags indicating interpolated (*) and/or extrapolated (E) data are printed with associated data values.
- 4) Pertinent comments are solicited from the responsible principle investigator and attached to the final print out.

STDAV OUTPUT TAPE

A tape with one meter averages for Depth, Salinity, Temperature, Sigma-T, and Delta-D/per station is generated for data storage and further analysis.

NODC-F

This program is used to convert the output tape from STDAV (IES STD final format) to an NODC formatted tape for submission to NODC to fulfill contractual obligations.

FACDIC.F1P3.C1600.

TO OT 1F. 4E. OT. DUMP OT 15R.

COPE NEEDED *****

OPY IN TO OT 1 FILE.

1 CONTAINED 5724 RECORDS

UPIED IN TO OT 1 FILE.

OT 15 RECORDS. OF NUMBER 1

1	360362362362	370366311324	342361100100	100362371343	310305100311	022286IMS1 29THE I
21	325342343311	343324433305	100326306100	324301331311	325305100342	STITUTE OF MARINE S
41	303311305325	3033305100311	342100331305	342327326325	342311302323	CIENCE IS RESPONSIBL
61	305100306326	331100343310	311342100304	301343301100	346310311303	E FOR THIS DATA WHIC
81	31100343301	342100306325	323323305303	343305304100	100100100100	H WAS COLLECTED
101	100100100100	100100100100	100100100100	100100100100	100100100361	1
2	360362362362	370366311324	342361100100	100362371301	302326301331	022286IMS1 29A30AR
21	304100343310	305100331141	345100301303	326325301100	302305343346	D THE R/V ACONA BETW
41	305305325158	360371140360	324140367371	100343326100	360371140361	EEN 09-04-79 TO 09-1
61	301100357371	1003022550100	204331113100	331226350305	331100100100	1-79 BY DR. ROYER
81	100100100100	100100100100	100100100100	100100100100	100100100100	
101	100100100100	100100100100	100100100100	100100100100	100100100362	2
3	360362362362	370366311324	342361100100	100362371326	306100343310	022286IMS1 29OF TH
21	305100311325	342343311343	344343305100	326306100324	301331311325	E INSTITUTE OF MARIN
41	305100342303	311305325303	305113100100	100100100100	100100100100	E SCIENCE.
61	100100100100	100100100100	100100100100	100100100100	100100100100	
81	100100100100	100100100100	100100100100	100100100100	100100100363	3
101	100100100100	100100100100	100100100100	100100100100	100100100363	
4	360362362362	370366311324	342361100100	100362371343	310305331305	022286IMS1 29THERE
21	1003048305331	305100301100	344326343331	323100326306	100364366100	WERE A TOTAL OF 46
41	3042343301343	311326325342	100311325100	343310305100	327331311325	STATIONS IN THE PRIN
61	1003030343301	311326325342	301324100342	324141307344	323306100326	CE WILLIAM SD/GULF O
81	100100100100	100100100100	100361331305	301113100100	100100100100	F ALASKA AREA.
101	100100100100	100100100100	100100100100	100100100100	100100100364	4
5	360362362362	370366311324	342361100100	100362371342	343301343311	022286IMS1 29STATI
21	305100342100	301331305100	100100100362	3711403266365	153366367140	ONS ARE 29-65,67-
41	305100342100	301331305100	100100100362	3711403266365	153366367140	75, PROBLEMS WERE ENC
61	305100342100	301331305100	100100100362	3711403266365	153366367140	OUNTERED WITH STATIO
81	305100342100	301331305100	100100100362	3711403266365	153366367140	
101	305100342100	301331305100	100100100362	3711403266365	153366367140	

81	325342100363	370153363371	153364360153	364261113100	100100100100	NS 38,39,40,41.
101	100100100100	100100100100	100100100100	100100100100	100100100365	5
6	360362362362	370366311324	342361100100	100362371342	343304100324	022286IMS1 29STD M
21	324314305323	100371340364	350153100342	305331311301	323100325344	ODEL 9040, SERIAL NU
41	324302305331	100355333364	321100346301	342100344342	3053304113100	MBER 5341 WAS USED.
61	3053303443301	343311326325	342100344342	3053304100343	326100307305	EQUATIONS USED TO GE
81	325305331301	343305100100	100100100100	100100100100	100100100100	NERATE
101	100100100100	100100100100	100100100100	100100100100	100100100366	6
7	360362362362	370366311324	342361100100	100362371327	301331301324	022286IMS1 29PARAM
21	305343305331	342100304331	326324100306	331305330344	305325303350	ETERS FROM FREQUENCY
41	100306326323	323226346140	100100100100	100100100100	100100100100	FOLLOW-
61	100100100100	100100100100	100100100100	100100100100	100100100100	
81	100100100100	100100100100	100100100100	100100100100	100100100100	
101	100100100100	100100100100	100100100100	100100100100	100100100367	7
8	360362362362	370366311324	342361100100	100362371100	100100100100	022286IMS1 29
21	100100100100	100100100100	100100100100	100100100100	100100100100	
41	100100100100	100100100100	100100100100	100100100100	100100100100	
61	100100100100	100100100100	100100100100	100100100100	100100100100	
81	100100100100	100100100100	100100100100	100100100100	100100100100	
101	100100100100	100100100100	100100100100	100100100100	100100100370	8
9	360362362362	370366311324	342361100100	100362371100	100100100100	022286IMS1 29
21	100100100100	100100100100	100342176115	342140364371	371365113360	S = (S-4995.0
41	304360135124	301113364364	301361365366	304140363100	116362366113	DO)*3.441560-3 +26.
61	304360135124	100100100100	100100100100	100100100100	100100100100	ODO
81	100100100100	100100100100	100100100100	100100100100	100100100100	
101	100100100100	100100100100	100100100100	100100100100	100100100371	9
10	360362362362	370366311324	342361100100	100362371100	100100100100	022286IMS1 29
21	100100100100	100100100100	100343176115	342140362361	362367113360	T = (T-2127.0
41	304360135124	301113364364	301361365366	304140363100	116362366113	DO)*1.79090-2 - 2.00
61	304360135124	100100100100	100100100100	100100100100	100100100100	0
81	100100100100	100100100100	100100100100	100100100100	100100100100	
101	100100100100	100100100100	100100100100	100100100100	100100361360	10
11	360362362362	370366311324	342361100100	100362371100	100100100100	022286IMS1 29
21	100100100100	100100100100	100304176115	304140371367	361363113371	D = (D-9713.9
41	304360135134	301113371365	301367367366	366304360100	100100100100	DO)*0.951776600
61	100100100100	100100100100	100100100100	100100100100	100100100100	
81	100100100100	100100100100	100100100100	100100100100	100100100100	
101	100100100100	100100100100	100100100100	100100100100	100100361361	11
12	360362362362	370366311324	342361100100	100362371100	100100100100	022286IMS1 29
21	100100100100	100100100100	100100100100	100100100100	100100100100	
41	100100100100	100100100100	100100100100	100100100100	100100100100	
61	100100100100	100100100100	100100100100	100100100100	100100100100	
81	100100100100	100100100100	100100100100	100100100100	100100100100	
101	100100100100	100100100100	100100100100	100100100100	100100361362	12

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 (✓)	
PLESSEY STD MODEL 9040	2/79		NRCC	1 YEAR					
NOTE: ALL STD OR CTD UNITS ARE FIELD CORRECTED BY COMPARISON WITH DISCRETE SAMPLES TO INCREASE ACCURACY OVER STANDARD LABORATORY CALIBRATION.									

4/3/80

TAPE ASSIGNMENT SHEET

ACCESSION NO: 81 00441

TYPE OF TAPE	TAPE NUMBER	LABEL	LRECL	BLKSIZE	RECFM	REMARKS
ORIGINATOR	W2126	NL	120	600	FIS	8cc BPI
	0CSE28	NL	120	6000	FIS	16cc BPI
DUPLICATE	000788	SL	120	120	F	
REFORMATTED						
FIRST USER	CBS- F022T6824	SL	120	VB	VB	4779 5724 RECORDS
FINAL USER	DMNOE* MPD75. F022T6824	SL	120	VB	VB	4779 5724 RECORDS

945 UNNECESSARY RECURTYPE1 RECORDS DELETED

DATE:

TO:

FROM:

SUBJECT: Error Correction in Processing of Data Set - Accession # 71 CC441

- 1) File Type: 022
- 2) Project Ident.: CCSEAF
- 3) Track Nos.: 6824

I. Error Corrections as reported to Principal Investigator:

<u>Error</u>	<u>Correction Completed (Check)</u>
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II. Additional error corrections:

<u>Error</u>	<u>Correction Completed (Check)</u>
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Atmos. press. recorded in wrong column. Corrected.	5/14/81
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SYSIN has been corrected. Orig Atmos pressure put back in. 8/3/81.

III. Processor Name: Charles B. Seibert

DATA SET FILE SHEET

Accession No. 81 00441

TR6824

Step Operations	Completion Date	Init.	Tape No.	No. of Files	BLKSIZE	LRECL
Originator Tape No. 63126	3/9/81	12	CCSE22	1	6000	120
QUADI Duplicate Tape #	3-19-81	<i>JP</i>	000788	1	120	120
DDF Evaluation						
Quality Review						
Preliminary Data Sort						
Preliminary Check						
First User Tape #	CBS- F022T6824	<i>CBP</i>	5/14/81	1	120 VB	120
Final User Tape #	DMN0EKMP015 F022T6824	<i>CBP</i>	5/15/81	1	VB	120
Final Check						
NAPIS Inventory						
DIP Inventory						
Data Set 'Finalized'						



UNITED STATES DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
ENVIRONMENTAL DATA SERVICE

NATIONAL OCEANOGRAPHIC DATA CENTER

September 11, 1981 OA/D781/SJH

TO: RD/MPF24 - Dean Dale
FROM: OA/D781 - Sid Halinski
SUBJECT: OCSEAP File Type 022 STD, TR6824

Please find enclosed a copy of our parameter check run for File Type 022 STD for Dr. Royer, RU 289. The file ID is 286IMS corresponding to NODC track number TR6824.

Only one set of text records (record type 1) is necessary for the one data set. Forty-six stations (29-75) each had 21 identical text records. All were removed but the first 21 text records. The text states that problems were encountered with stations 38-41, however, no changes were made to the data in these stations.

The data set is considered final processed and will be entered into the OCSEAP data base. However, it is requested that a review of the actual range values be made for each parameter in the check list for accuracy. Please notify me if any corrections are required.

Enclosure

cc: W. Fischer
 M. Crane
 T. Royer (w/enclosure)



@ED,QU DM5120+CBS-.F022T6824,SEL45.
ED 16R1-THU-05/14/81-11:01:33-(0.1)
EDIT
LINES:5724 ASCII

@USE IN,SEL45.
READY

@USE SYSIN,PRINT-OUT.
READY

@ASG,T SORTIN.
READY

@XQT DMNOE*IPLABS.MUL
NSDCHEK *** NON-STANDARD DATA FIELD CHECKING PROGRAM
THIS IS 01/11/79 VERSION WITH FULL CODE CHECKING

USER'S INPUT REQUESTS FOLLOW:
LRECL HAS BEEN SPECIFIED AS 120
STATION HEADER RECORD SPECIFIED AS 2
RECORD TYPE WILL BE TAKEN FROM COLUMN 10 OF THE INPUT RECORDS
FILETYPE IS 022
RECORD TYPES FLAGGED FOR RETRIEVAL ARE - 12345
STATION STARTS IN POSITION 11 FOR 5 BYTES
STATION WILL APPEAR ON RECORD TYPES : 12345

NO OBVIOUS ERRORS FOUND IN TABLE GENERATION PHASE - SUCCESSFUL EXECUTION EXPECTED

022TR68241 29THE INSTITUTE OF MARINE SCIENCE IS RESPONSIBLE FOR THIS DATA WHICH WAS COLLECTED 1
??????

FIRST FILE ID

022TR68241 29THE INSTITUTE OF MARINE SCIENCE IS RESPONSIBLE FOR THIS DATA WHICH WAS COLLECTED 1
??????

STATION NUMBER HAS CHANGED WITHOUT A MASTER

022TR68241 30THE INSTITUTE OF MARINE SCIENCE IS RESPONSIBLE FOR THIS DATA WHICH WAS COLLECTED 1
??????

STATION NUMBER HAS CHANGED WITHOUT A MASTER

022TR68241 31THE INSTITUTE OF MARINE SCIENCE IS RESPONSIBLE FOR THIS DATA WHICH WAS COLLECTED 1
??????

STATION NUMBER HAS CHANGED WITHOUT A MASTER

022TR68241 32THE INSTITUTE OF MARINE SCIENCE IS RESPONSIBLE FOR THIS DATA WHICH WAS COLLECTED 1
??????

STATION NUMBER HAS CHANGED WITHOUT A MASTER

022TR68241 33THE INSTITUTE OF MARINE SCIENCE IS RESPONSIBLE FOR THIS DATA WHICH WAS COLLECTED 1
??????

STATION NUMBER HAS CHANGED WITHOUT A MASTER

022TR68241 34THE INSTITUTE OF MARINE SCIENCE IS RESPONSIBLE FOR THIS DATA WHICH WAS COLLECTED 1
?????
STATION NUMBER HAS CHANGED WITHOUT A MASTER

022TR68241 35THE INSTITUTE OF MARINE SCIENCE IS RESPONSIBLE FOR THIS DATA WHICH WAS COLLECTED 1
?????
STATION NUMBER HAS CHANGED WITHOUT A MASTER

022TR68241 36THE INSTITUTE OF MARINE SCIENCE IS RESPONSIBLE FOR THIS DATA WHICH WAS COLLECTED 1
?????
STATION NUMBER HAS CHANGED WITHOUT A MASTER

022TR68241 37THE INSTITUTE OF MARINE SCIENCE IS RESPONSIBLE FOR THIS DATA WHICH WAS COLLECTED 1
?????
STATION NUMBER HAS CHANGED WITHOUT A MASTER

022TR68241 38THE INSTITUTE OF MARINE SCIENCE IS RESPONSIBLE FOR THIS DATA WHICH WAS COLLECTED 1
?????
STATION NUMBER HAS CHANGED WITHOUT A MASTER

022TR68241 53THE INSTITUTE OF MARINE SCIENCE IS RESPONSIBLE FOR THIS DATA WHICH WAS COLLECTED 1
?????
STATION NUMBER HAS CHANGED WITHOUT A MASTER

022TR68241 54THE INSTITUTE OF MARINE SCIENCE IS RESPONSIBLE FOR THIS DATA WHICH WAS COLLECTED 1
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STATION NUMBER HAS CHANGED WITHOUT A MASTER

022TR68241 55THE INSTITUTE OF MARINE SCIENCE IS RESPONSIBLE FOR THIS DATA WHICH WAS COLLECTED 1
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STATION NUMBER HAS CHANGED WITHOUT A MASTER

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 STATION NUMBER HAS CHANGED WITHOUT A MASTER

 022TR68241 69THE INSTITUTE OF MARINE SCIENCE IS RESPONSIBLE FOR THIS DATA WHICH WAS COLLECTED

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 022TR68241 74THE INSTITUTE OF MARINE SCIENCE IS RESPONSIBLE FOR THIS DATA WHICH WAS COLLECTED

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 STATION NUMBER HAS CHANGED WITHOUT A MASTER

 022TR68241 75THE INSTITUTE OF MARINE SCIENCE IS RESPONSIBLE FOR THIS DATA WHICH WAS COLLECTED

STATION NUMBER HAS CHANGED WITHOUT A MASTER
 THE FIELDS BELOW WERE CHECKED AS FOLLOWS(S=SIGN/B=BLANK/T=TAXONOMIC CODE/N=NUMERIC/M=MANDATORY NUMERIC/Z=NO CHECKING)

T	R	POS	LEN	NAME	RANGE TESTED		ACTUAL RANGE		MEAN	FP	FP-1	>-1
					LOW	HIGH	LOWEST	HIGHEST				
Z	1	11	5	STATION NUMBER						966		
Z	1	16	100	TEXT						828		
N	1	116	5	SEQUENCE NUMBER 1.	00001	99999	1	21	11.00	966	0	0
Z	2	11	5	STATION NUMBER						46		
M	2	16	2	LAT DEG 1.	40	89	58	60	58.93	46	0	0
M	2	18	4	LAT MIN .01	0000	5999	120	5990	3219.39	46	0	0
C	2	22	1	0500 LAT HEMISPHERE						46		
M	2	23	3	LON DEG 1.	050	179	146	149	147.54	46	0	0
M	2	26	4	LON MIN .01	0000	5999	480	5770	2779.71	46	0	0
C	2	30	1	0501 LON HEMISPHERE						46		
Z	2	31	10	TEXT						46		
N	2	41	5	COUNT OF SCANS 1.	00001	99999	58	1526	510.06	46	0	0
M	2	46	2	DATE YEAR 1.	75	80	79	79	79.00	46	0	0
M	2	48	2	DATE MONTH 1.	01	12	9	9	9.00	46	0	0
M	2	50	2	DATE DAY 1.	01	31	7	11	8.54	46	0	0
M	2	52	2	DATE HR 1.	00	23	0	23	9.65	46	0	0
N	2	54	2	DATE MIN 1.	00	59	0	58	31.08	46	0	0
C	2	56	1	0216 DEPTH INTERVAL						46		
N	2	57	3	DEPTH M .1	001	999	10	10	10.00	46	0	0
N	2	60	5	PRESSURE MB .1	00944	01053	1003	1017	1010.60	46	0	0
N	2	65	4	WET BULB TEMPERATURE DEG C .1	-300	0400	0	138	108.97	46	0	0
N	2	69	4	TEMPERATURE DEG C .1	-300	0400	118	178	138.50	46	0	0
C	2	73	2	0110 WIND-WAVE DIRECTION						46		

N 2	75	2	WIND SPEED KM		00	70	0	25	6.67	46	0	0
C 2	77	1	0108 WEATHER (WMO4501)							46		
C 2	78	1	0109 SEA STATE (WMO3700)							46		
C 2	79	1	0157 VISIBILITY (WMO4300)							34		
C 2	80	1	0053 CLOUD TYPE (WMO500)							19		
C 2	81	1	0105 CLOUD AMT (WMO2700)							19		
Z 2	82	20	TEXT							46		
Z 2	102	6	TEXT							46		
N 2	108	5	BATHYMETRY M 1.		00000	08000	62	2604	618.89	46	0	0
N 2	113	4	DEPTH M 1.		0000	6000	57	1525	509.06	46	0	0
B 2	117	4	BLANK(S)							46		
Z 3	11	5	STATION NUMBER							4712		
N 3	16	5	DEPTH M .1		00000	60000	0	15250	5254.97	4712	0	0
N 3	21	5	TEMPERATURE DEG C .001		-2000	33000	2297	14977	4846.80	4712	0	0
N 3	26	5	SALINITY PPT .001		10000	36500	25309	34461	33340.47	4712	0	0
N 3	31	4	DENSITY .01		0315	3000	1884	2755	2638.67	4712	0	0
C 3	35	1	0080 STD-SCAN CONDITION							4712		
N 3	36	5	DEPTH M .1		00001	60000	10	15210	5265.43	4700	0	0
N 3	41	5	TEMPERATURE DEG C .001		-2000	33000	2298	14975	4828.36	4700	0	0
N 3	46	5	SALINITY PPT .001		10000	36500	25309	34461	33348.64	4700	0	0
N 3	51	4	DENSITY .01		0315	3000	1884	2755	2639.59	4700	0	0
C 3	55	1	0080 STD-SCAN CONDITION							4700		
N 3	56	5	DEPTH M .1		00002	60000	20	15220	5275.15	4693	0	0
N 3	61	5	TEMPERATURE DEG C .001		-2000	33000	2297	14972	4809.79	4693	0	0
N 3	66	5	SALINITY PPT .001		10000	36500	25309	34462	33357.96	4693	0	0
N 3	71	4	DENSITY .01		0315	3000	1884	2755	2640.60	4693	0	0
C 3	75	1	0080 STD-SCAN CONDITION							4693		
N 3	76	5	DEPTH M .1		00003	60000	30	15230	5283.15	4684	0	0
N 3	81	5	TEMPERATURE DEG C .001		-2000	33000	2301	14975	4792.53	4684	0	0
N 3	86	5	SALINITY PPT .001		10000	36500	25309	34461	33367.19	4684	0	0
N 3	91	4	DENSITY .01		0315	3000	1884	2755	2641.59	4684	0	0
C 3	95	1	0080 STD-SCAN CONDITION							4684		
N 3	96	5	DEPTH M .1		00004	60000	40	15240	5294.13	4674	0	0
N 3	101	5	TEMPERATURE DEG C .001		-2000	33000	2300	14973	4776.16	4674	0	0
N 3	106	5	SALINITY PPT .001		10000	36500	25309	34461	33376.39	4674	0	0
N 3	111	4	DENSITY .01		0315	3000	1884	2755	2642.56	4674	0	0
C 3	115	1	0080 STD-SCAN CONDITION							4674		
N 3	116	5	SEQUENCE NUMBER 1.		00001	99999	1	306	106.09	4712	0	0
Z 4	11	5	STATION NUMBER							NO VALUES FOUND FOR THIS PARAMETER		
N 4	16	5	DEPTH M .1		00005	60000				NO VALUES FOUND FOR THIS PARAMETER		
N 4	21	5	DISSOLVED OXYGEN GAS ML/L .001		00001	15000				NO VALUES FOUND FOR THIS PARAMETER		
N 4	26	5	LIGHT ATTENUATION X .001		00001	99000				NO VALUES FOUND FOR THIS PARAMETER		
B 4	31	4	BLANK(S)							NO VALUES FOUND FOR THIS PARAMETER		
C 4	35	1	0080 STD-SCAN CONDITION							NO VALUES FOUND FOR THIS PARAMETER		
N 4	36	5	DEPTH M .1		00006	60000				NO VALUES FOUND FOR THIS PARAMETER		
N 4	41	5	DISSOLVED OXYGEN GAS ML/L .001		00001	15000				NO VALUES FOUND FOR THIS PARAMETER		
N 4	46	5	LIGHT ATTENUATION X .001		00001	99000				NO VALUES FOUND FOR THIS PARAMETER		
B 4	51	4	BLANK(S)							NO VALUES FOUND FOR THIS PARAMETER		
C 4	55	1	0080 STD-SCAN CONDITION							NO VALUES FOUND FOR THIS PARAMETER		
N 4	56	5	DEPTH M .1		00007	60000				NO VALUES FOUND FOR THIS PARAMETER		
N 4	61	5	DISSOLVED OXYGEN GAS ML/L .001		00001	15000				NO VALUES FOUND FOR THIS PARAMETER		
N 4	66	5	LIGHT ATTENUATION X .001		00001	99000				NO VALUES FOUND FOR THIS PARAMETER		
B 4	71	4	BLANK(S)							NO VALUES FOUND FOR THIS PARAMETER		
C 4	75	1	0080 STD-SCAN CONDITION							NO VALUES FOUND FOR THIS PARAMETER		
N 4	76	5	DEPTH M .1		00008	60000				NO VALUES FOUND FOR THIS PARAMETER		
N 4	81	5	DISSOLVED OXYGEN GAS ML/L .001		00001	15000				NO VALUES FOUND FOR THIS PARAMETER		
N 4	86	5	LIGHT ATTENUATION X .001		00001	99000				NO VALUES FOUND FOR THIS PARAMETER		

C 4 91	1 0080 STD-SCAN CONDITION			NO VALUES FOUND FOR THIS PARAMETER
B 4 92	4 BLANK(S)			NO VALUES FOUND FOR THIS PARAMETER
N 4 96	5 DEPTH M .1	00009	60000	NO VALUES FOUND FOR THIS PARAMETER
N 4 101	5 DISSOLVED OXYGEN GAS ML/L .001	00001	15000	NO VALUES FOUND FOR THIS PARAMETER
N 4 106	5 LIGHT ATTENUATION % .001	00001	99000	NO VALUES FOUND FOR THIS PARAMETER
B 4 111	4 BLANK(S)			NO VALUES FOUND FOR THIS PARAMETER
C 4 115	1 0080 STD-SCAN CONDITION			NO VALUES FOUND FOR THIS PARAMETER
N 4 116	5 SEQUENCE NUMBER 1.	00001	99999	NO VALUES FOUND FOR THIS PARAMETER
Z 5 11	5 STATION NUMBER			NO VALUES FOUND FOR THIS PARAMETER
N 5 16	5 DEPTH M .1	00010	60000	NO VALUES FOUND FOR THIS PARAMETER
N 5 21	5 TEMPERATURE DEG C .001	-2000	33000	NO VALUES FOUND FOR THIS PARAMETER
N 5 26	5 ELECTRICAL CONDUCTIVITY MMHOS/CM .001	15000	55000	NO VALUES FOUND FOR THIS PARAMETER
B 5 31	4 BLANK(S)			NO VALUES FOUND FOR THIS PARAMETER
C 5 35	1 0080 STD-SCAN CONDITION			NO VALUES FOUND FOR THIS PARAMETER
N 5 36	5 DEPTH M .1	00010	60000	NO VALUES FOUND FOR THIS PARAMETER
N 5 41	5 TEMPERATURE DEG C .001	-2000	33000	NO VALUES FOUND FOR THIS PARAMETER
N 5 46	5 ELECTRICAL CONDUCTIVITY MMHOS/CM .001	15000	55000	NO VALUES FOUND FOR THIS PARAMETER
B 5 51	4 BLANK(S)			NO VALUES FOUND FOR THIS PARAMETER
C 5 55	1 0080 STD-SCAN CONDITION			NO VALUES FOUND FOR THIS PARAMETER
N 5 56	5 DEPTH M .1	00010	60000	NO VALUES FOUND FOR THIS PARAMETER
N 5 61	5 TEMPERATURE DEG C .001	-2000	33000	NO VALUES FOUND FOR THIS PARAMETER
N 5 66	5 ELECTRICAL CONDUCTIVITY MMHOS/CM .001	15000	55000	NO VALUES FOUND FOR THIS PARAMETER
B 5 71	4 BLANK(S)			NO VALUES FOUND FOR THIS PARAMETER
C 5 75	1 0080 STD-SCAN CONDITION			NO VALUES FOUND FOR THIS PARAMETER
N 5 76	5 DEPTH M .1	00010	60000	NO VALUES FOUND FOR THIS PARAMETER
N 5 81	5 TEMPERATURE DEG C .001	-2000	33000	NO VALUES FOUND FOR THIS PARAMETER
N 5 86	5 ELECTRICAL CONDUCTIVITY MMHOS/CM .001	15000	55000	NO VALUES FOUND FOR THIS PARAMETER
B 5 91	4 BLANK(S)			NO VALUES FOUND FOR THIS PARAMETER
C 5 95	1 0080 STD-SCAN CONDITION			NO VALUES FOUND FOR THIS PARAMETER
N 5 96	5 DEPTH M .1	00010	60000	NO VALUES FOUND FOR THIS PARAMETER
N 5 101	5 TEMPERATURE DEG C .001	-2000	33000	NO VALUES FOUND FOR THIS PARAMETER
N 5 106	5 ELECTRICAL CONDUCTIVITY MMHOS/CM .001	15000	55000	NO VALUES FOUND FOR THIS PARAMETER
B 5 111	4 BLANK(S)			NO VALUES FOUND FOR THIS PARAMETER
C 5 115	1 0080 STD-SCAN CONDITION			NO VALUES FOUND FOR THIS PARAMETER
N 5 116	5 SEQUENCE NUMBER 1.	00001	99999	NO VALUES FOUND FOR THIS PARAMETER

RECORDS READ : 5724

NANSEN REF. #

319247

MULDARS TRACK #

TR6824

MONITOR: CONTACT

Gerald W. Damon

LOCATION OF F022 SOURCE

Archives (TR6824)

RECORD ALL ERRORS FOUND

CONSEC(S)

8, 31

41

15, 17, 19, 21

24, 30

ERRORS FOUND

Position/Time doubtful:
delete station

Lat. min. change 418 to 468
C/418// to C/468//

Sal. qual.

Muldars correction made - 5/15/84 - *MR*

Password:

accNo	fleA	refNo	proj	inst	ship	startDate	cruise	catId
8100441	F022	TR6824	0081	31I7	31AC	1979/09/07	AC286	314389
8100441	C022	319247	0081	31I7	31AC	1979/09/07	TR6824	314390

(2 rows affected)

Password:

accNo	fleA	refNo	ship	staCnt	recCnt	startDate	endDate
8100441	F022	TR6824	31AC	46	4766	79/09/07	79/09/11
8100441	C022	319247	31AC	46	57	79/09/07	79/09/11

(2 rows affected)