

Cruise # 319242 C022

ACCESSION NUMBER

8000544

DDF A:3:18

DATA DOCUMENTATION FORM

F022 TR6370

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		3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT	
		HX02	
4. PLATFORM NAME(S)	5. PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.)	6. PLATFORM AND OPERATOR NATIONALITY(IES)	7. DATES
R/V ALPHA HELIX	SHIP	PLATFORM	OPERATOR
		USA	USA
		FROM: MO/DAY/YR	TO: MO/DAY/YR
		06/10/80	06/12/80
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			

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 & NEIL BROWN MARK IIIB CTD/O	DESCRIPTION OF BASIC PROCESSING ATTACHED	N/A
TEMPERATURE	°C	DSR THERMOMETERS & NEIL BROWN MARK IIIB CTD/O	"	N/A
DEPTH	0.1m (1m = 1 db)	THERMOMETRIC DEPTH & NEIL BROWN MARK IIIB CTD/O	"	N/A

## IMS STD/CTD DATA REDUCTION

JUNE 1980

### 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 N is greater than or equal to depth N + 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, Temperature, Salinity, 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 (IMS STD final format) to an NODC formatted tape for submission to NODC to fulfill contractual obligations.

## IMS STD/CTD DATA REDUCTION

JUNE 1980

### STDCP

Raw 9-track magnetic tapes from the Neil Brown Mark IIIB microprofiler are input. The conductivity 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 from the raw 9-track tape. Output from this program is input for STDAV.

### STDCP PRINT OUT

- 1) Print out the type of "FISH" used.
- 2) Input from 9-track and output to 9-track is documented. (This includes all headers, end of files, and record number indicators).

### CALVAL

Data values from the instrument display, taken at the time discrete samples were taken are 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.

### 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"/> _____	<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><b>5. RECORDING MODE</b></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><b>9. LENGTH OF INTER-RECORD GAP (IF KNOWN)</b> <input type="checkbox"/> 3/4 INCH  <input checked="" type="checkbox"/> .5 inch - 0.6 inch</p>
<p><b>6. NUMBER OF TRACKS (CHANNELS)</b></p> <p><input type="checkbox"/> SEVEN</p> <p><input checked="" type="checkbox"/> NINE</p> <p><input type="checkbox"/> _____</p>	<p><b>10: END OF FILE MARK</b></p> <p><input type="checkbox"/> OCTAL 17</p> <p><input checked="" type="checkbox"/> octal 23</p>
<p><b>7. PARITY</b></p> <p><input checked="" type="checkbox"/> ODD</p> <p><input type="checkbox"/> EVEN</p>	<p><b>11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME LAY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER)</b></p> <p>289 022 HX2IMS                  Alpha Helix Cruise HX02                  06/10/80 - 06/12/80                  Stations: 01-16,18-27,29-31                  Mr. Dave Nebert                  9trk,1600BPI,EBCDIC, NO LABEL,ODD PARITY</p>
<p><b>8. DENSITY</b></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><b>12. PHYSICAL BLOCK LENGTH IN BYTES</b>                  5-120 bytes/block</p> <p><b>13. LENGTH OF BYTES IN BITS</b>                  8 bits/byte</p>

DEF IN GFRC, ASCII, DEF OT, IRM, NLAB, NSER, E3CDIC, F120, CI600. FORT IN, RECT. PROC NEW IN. COPY IN TO OT 1F. REW OT. DUMP OT 15R.

\*\*\*\*\* 3K ADDITIONAL CORE NEEDED \*\*\*\*\*

FUNCTION REQUESTED: COPY IN TO OT 1 FILE. FILE IN REWOUND

FILE CODE IN FILE # 1 CONTAINED 1678 RECORDS FILE OT REWOUND

FUNCTION COMPLETED: COPIED IN TO OT 1 FILE.

FUNCTION REQUESTED: DUMP OT 15 RECORDS. FILE CODE OT FILE NUMBER 1

Table with columns CI, R, CC, and record numbers (1-101). It contains multiple rows of alphanumeric data representing file records.

022HX2IMS1 INSTITUTE OF SCIENCE IS R E FOR THIS M WAS COLLE 022HX2IMS1 D THE ALPHA T-VEEN 06-10 -12-80 BY M ERERT 022HX2IMS1 E INSTITUTE E SCIENCE. 022HX2IMS1 WERE A TOT STATIONS IN RPECTION BA 022HX2IMS1 IS NO STD STATION 17 ON 28.

Table with columns CI, R, CC, and record numbers (81-101). It contains multiple rows of alphanumeric data representing file records.

022HX2IMS1 BROWN INSTR TEMS, INC. M CTD/O MICRO WAS USED. 022HX2IMS1 CORRECTION CRUISE WAS OM ALPHA HEI E HX02. 022HX2IMS1 CORRECTION STD DATA WA BY COMPARI BOTTLE SAM 022HX2IMS1 CORDED PERI THE STD SEN E FIELD COR S BASED ON 022HX2IMS1 ES FROM A T STATIONS D CORRECTION 022HX2IMS1

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		
FILE TYPE "22" AS DESIGNATED BY OCSEP AND NODC. THERE ARE NO INTENDED DEVIATIONS FROM THIS TYPE, EXCEPT:					
		<ol style="list-style-type: none"> <li>1. Col.45-49 Depth in meters (15 to 1/10ths)</li> <li>2. Col.50-53 Salinity in 0/00 (14 to 1/100ths)</li> </ol>			

### 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  (✓)	
NEIL BROWN MARK IIIB CTD/O Microprofiler	May 1980		NEIL BROWN						
<b>NOTE:</b> ALL STD OR CTD UNITS ARE FIELD CORRECTED BY COMPARISON WITH DISCRETE SAMPLES TO INCREASE ACCURACY OVER STANDARD LABORATORY CALIBRATION.									







## B - BIOLOGY

	NUMBER	i	FORMAT		NUMBER	i	FORMAT
B01 Primary productivity				B31 Vitamin concentrations			
B02 Phytoplankton pigments				B32 Amino acid concentration			
B03 Seston				B33 Hydrocarbon concentrations			
B04 Particulate organic carbon				B34 Lipid concentrations			
B05 Particulate organic nitrogen				B35 ATP-ADP-AMP concentrations			
B06 Dissolved organic matter				B36 DNA-RNA concentrations			
B07 Bacterial and pelagic micro-organisms				B37 Taggings			
B08 Phytoplankton	1	A1	B2 9	B80 Other measurements			
B09 Zooplankton							
B10 Neuston				<b>B5 TYPES OF STUDIES</b>			
B11 Nekton				B51 Identification			
B12 Invertebrate nekton				B52 Spatial and temporal distribution			
B13 Pelagic eggs and larvae				B53 Monitoring and surveillance			
B14 Pelagic fish				B54 Biomass determination			
B15 Amphibians				B55 Description of communities			
B16 Benthic bacteria and micro-organisms				B56 Food chains energy transfers			
B17 Phyto-benthos				B57 Population and environments			
B18 Zoobenthos				B58 Population structures			
B19 Commercial demersal fish				B59 Taxonomy, systematics, classification			
B20 Commercial benthic molluscs				B60 Physiology			
B21 Commercial benthic crustacean				B61 Behaviour			
B22 Attached plants and algae				B62 Pathology, parasitology			
B23 Intertidal organisms				B63 Toxicology			
B24 Borers and foulers				B64 Gear research			
B25 Birds				B65 Exploratory fishing			
B26 Mammals and reptiles				B66 Commercial fishing			
B27 Deep scattering layers				B67 Aquaculture			
B28 Acoustical reflections on marine organisms				B90 Other measurements			
B29 Biologic sounds							
B30 Bioluminescence							

# H - HYDROGRAPHY

HS SURFACE		NUMBER	i	I	FORMAT	HC CHEMICAL		NUMBER	i	I	FORMAT
H01	Continuous temperature recording					H26	Silicates				
H02	Continuous salinity recording					H27	Alkalinity				
H03	Discrete temperature measurements					H28	pH				
H04	Discrete salinity measurements					H29	Chlorinity				
<b>NEAR SEA FLOOR (<math>\leq 10</math> m)</b>						H30	Trace elements				
H05	Continuous temperature recording					H31	Radioactivity				
H06	Continuous salinity recording					H32	Isotopes				
H07	Discrete temperature measurements					H33	Dissolved gases				
H08	Discrete salinity measurements					H90	Other measurements				
<b>HP PHYSICAL</b>											
H09	Classical oceanographic stations										
H10	Vertical profiles (STD/CTD)	31	A1	A2	7	<b>P - POLLUTION</b>					
H11	Sub-surface measurements underway					P01	Suspended solids				
H12	Mechanical bathythermograph (No. of drops)					P02	Heavy metals				
H13	Bathythermograph-expendable (No. of drops)					P03	Petroleum residues				
H14	Sound velocity stations					P04	Chlorinated hydrocarbons				
H15	Acoustic stations					P05	Other dissolved substances				
H16	Transparency					P06	Thermal pollution				
H17	Optics					P07	Waste water: BOD				
H18	Diffusion (Dynamic)					P08	Waste water: Nitrates				
H80	Other measurements					P09	Waste water: Microbiology				
						P10	Waste water: Other				
						P11	Discolored water				
						P12	Bottom deposits				
<b>HC CHEMICAL</b>						P13	Contaminated organisms				
H21	Oxygen	31	A1	A2	7	P90	Other measurements				
H22	Phosphates										
H23	Total-P										
H24	Nitrates										
H25	Nitrites										

TAPE ASSIGNMENT SHEET (MRL) 11/6/78

ACCESSION NO: 8000544 TR 6370

TYPE OF TAPE	TAPE NUMBER	LABEL	LRECL	BKSIZE	RECFM	REMARKS
ORIGINATOR	W1980	NL	120		FB	
DUPLICATE	000270	SL	120	120	F	
REFORMATTED						
FIRST USER						
FINAL USER						

DATE:

TO:

FROM:

SUBJECT: Error Correction in Processing of Data Set - Accession # 8000544

- 1) File Type: 65:
- 2) Project Ident.: NON-PROJECT
- 3) Track Nos.: TR6370

I. Error Corrections as reported to Principal Investigator:

Error

Correction Completed (Check)

II. Additional error corrections:

Error

Correction Completed (Check)

III. Processor Name: \_\_\_\_\_

Data Set Date Sheet

Accession # \_\_\_\_\_

Step	Completion Date/Init.	Tape #, # of Files	BLKSIZE	LRECL
Originator Tape #	11/7/81	W1470		120
QUADI Duplicate Tape #	2/11/81	800 000270	120	120
DDF Evaluation				
Quality Review				
Preliminary Data Sort				
Preliminary Check				
First User Tape #				
Final User Tape #				
Final Check				
1. NAFIS Inventory				
2. DIP Inventory				
3. Data Set 'Finalized'				

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 - 1234567  
STATION STARTS IN POSITION 11 FOR 5 BYTES  
STATION WILL APPEAR ON RECORD TYPES : 1234567

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

\*\*\*\*\*  
022TP63701 1THE INSTITUTE OF MARINE SCIENCE IS RESPONSIBLE FOR THIS DATA WHICH WAS COLLECTED 1  
??????

FIRST FILE ID  
\*\*\*\*\*  
022TR63701 1THE 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/E=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						15		
Z	1	16	100	TEXT						14		
N	1	116	5	SEQUENCE NUMBER 1.	00001	99999	1	15	8.00	15	0	0
Z	2	11	5	STATION NUMBER						29		
M	2	16	2	LAT DEG 1.	20	89	59	60	59.10	29	0	0
M	2	18	4	LAT MIN .01	0000	5999	120	5530	3796.17	29	0	0
C	2	22	1	0500 LAT HEMISPHERE						29		
M	2	23	3	LON DEG 1.	000	179	149	149	149.00	29	0	0
M	2	26	4	LON MIN .01	0000	5999	1320	4250	2736.17	29	0	0
C	2	30	1	0501 LON HEMISPHERE						29		
Z	2	31	10	TEXT						29		
N	2	41	5	COUNT OF SCANS 1.	00001	99999	43	286	207.03	29	0	0
M	2	46	2	DATE YEAR 1.	72	82	80	80	80.00	29	0	0
M	2	48	2	DATE MONTH 1.	01	12	6	6	6.00	29	0	0
M	2	50	2	DATE DAY 1.	01	31	11	13	11.24	29	0	0
M	2	52	2	DATE HR 1.	00	23	0	23	13.93	29	0	0
N	2	54	2	DATE *IN 1.	00	59	0	58	27.27	29	0	0
C	2	56	1	0216 DEPTH INTERVAL						29		
N	2	57	3	DEPTH M .1	001	999	10	10	10.00	29	0	0
N	2	60	5	PRESSURE MB .1	09440	10530	10054	10179	10131.17	29	0	0
N	2	65	4	WET BULB TEMPERATURE DEG C .1	-300	0400	0	0	00	29	0	0
N	2	69	4	TEMPERATURE DEG C .1	-300	0400	67	161	98.41	29	0	0
C	2	73	2	0110 WIND-WAVE DIRECTION						29		
N	2	75	2	WIND SPED KM	00	70	0	15	5.96	29	0	0
C	2	77	1	0108 WEATHER (WMO4501)						29		
C	2	78	1	0109 SEA STATE (WMO3700)						29		
C	2	79	1	0157 VISIBILITY (WMO4300)						28		
C	2	80	1	0053 CLOUD TYPE (WMO500)						22		
C	2	81	1	0105 CLOUD AMT (WMO2700)						25		
Z	2	82	20	TEXT						29		
Z	2	102	6	TEXT						29		
N	2	106	5	BATHYMETRY M 1.	00000	08000	50	292	215.17	29	0	0



N 2	113	4 DEPTH M 1.	0000	6000	42	285	206.03	29	0	0
B 2	117	4 BLANK(S)						29		
Z 3	11	5 STATION NUMBER						1214		
N 3	16	5 DEPTH M .1	00000	60000	0	2850	1120.55	1214	0	0
N 3	21	5 TEMPERATURE DEG C .001	-2000	33000	4241	10493	5853.89	1214	0	0
N 3	26	5 SALINITY PPT .001	10000	36500	23560	32790	32003.47	1214	0	0
N 3	31	4 DENSITY .01	0315	3000	1802	2588	2524.24	1214	0	0
C 3	35	1 0080 STD-SCAN CONDITION						1214		
N 3	36	5 DEPTH M .1	00001	60000	10	2810	1123.79	1207	0	0
N 3	41	5 TEMPERATURE DEG C .001	-2000	33000	4241	10493	5839.53	1207	0	0
N 3	46	5 SALINITY PPT .001	10000	36500	23560	32791	32010.34	1207	0	0
N 3	51	4 DENSITY .01	0315	3000	1802	2588	2524.98	1207	0	0
C 3	55	1 0080 STD-SCAN CONDITION						1207		
N 3	56	5 DEPTH M .1	00002	60000	20	2820	1127.08	1200	0	0
N 3	61	5 TEMPERATURE DEG C .001	-2000	33000	4244	10059	5824.50	1200	0	0
N 3	66	5 SALINITY PPT .001	10000	36500	26161	32791	32021.49	1200	0	0
N 3	71	4 DENSITY .01	0315	3000	2038	2588	2526.05	1200	0	0
C 3	75	1 0080 STD-SCAN CONDITION						1200		
N 3	76	5 DEPTH M .1	00003	60000	30	2830	1134.94	1194	0	0
N 3	81	5 TEMPERATURE DEG C .001	-2000	33000	4244	9945	5808.55	1194	0	0
N 3	86	5 SALINITY PPT .001	10000	36500	27076	32791	32038.20	1194	0	0
N 3	91	4 DENSITY .01	0315	3000	2109	2588	2527.58	1194	0	0
C 3	95	1 0080 STD-SCAN CONDITION						1194		
N 3	96	5 DEPTH M .1	00004	60000	40	2840	1142.01	1189	0	0
N 3	101	5 TEMPERATURE DEG C .001	-2000	33000	4242	9926	5789.71	1189	0	0
N 3	106	5 SALINITY PPT .001	10000	36500	28438	32790	32050.60	1189	0	0
N 3	111	4 DENSITY .01	0315	3000	2206	2588	2528.79	1189	0	0
C 3	115	1 0080 STD-SCAN CONDITION						1189		
N 3	116	5 SEQUENCE NUMBER 1.	00001	99999	1	58	23.41	1214	0	0
Z 4	11	5 STATION NUMBER								
N 4	16	5 DEPTH M .1	00005	60000	NO VALUES FOUND FOR THIS PARAMETER					
N 4	21	5 OXYGEN, DISSOLVED GAS ML/L .001	00001	15000	NO VALUES FOUND FOR THIS PARAMETER					
N 4	26	5 LIGHT ATTENUATION % .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 OXYGEN, DISSOLVED GAS ML/L .001	00001	15000	NO VALUES FOUND FOR THIS PARAMETER					
N 4	46	5 LIGHT ATTENUATION % .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 OXYGEN, DISSOLVED GAS ML/L .001	00001	15000	NO VALUES FOUND FOR THIS PARAMETER					
N 4	66	5 LIGHT ATTENUATION % .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 OXYGEN, DISSOLVED GAS ML/L .001	00001	15000	NO VALUES FOUND FOR THIS PARAMETER					
N 4	86	5 LIGHT ATTENUATION % .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	3 BLANK(S)			NO VALUES FOUND FOR THIS PARAMETER					
C 4	95	1 0080 STD-SCAN CONDITION			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 OXYGEN, DISSOLVED 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 CONDITIGN				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 CONDITIUN				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 CONDITIUN				NO VALUES FOUND FOR THIS PARAMETER
N 5 116	5	SEQUENCE NUMBER 1.	00001	99999		NO VALUES FOUND FOR THIS PARAMETER
Z 6 11	5	STATION NUMBER				NO VALUES FOUND FOR THIS PARAMETER
N 6 16	5	PRESSURE DB .1	00944	01053		NO VALUES FOUND FOR THIS PARAMETER
N 6 21	5	TEMPERATURE DEG C .001	-2000	33000		NO VALUES FOUND FOR THIS PARAMETER
N 6 26	5	SALINITY % .001	10000	36500		NO VALUES FOUND FOR THIS PARAMETER
N 6 31	4	DENSITY .1	0315	3000		NO VALUES FOUND FOR THIS PARAMETER
C 6 35	1	0080 STD-SCAN CONDITION				NO VALUES FOUND FOR THIS PARAMETER
N 6 36	5	PRESSURE DB .1	00944	01053		NO VALUES FOUND FOR THIS PARAMETER
N 6 41	5	TEMPERATURE DEG C .001	-2000	33000		NO VALUES FOUND FOR THIS PARAMETER
N 6 46	5	SALINITY % .001	10000	36500		NO VALUES FOUND FOR THIS PARAMETER
N 6 51	4	DENSITY .1	0315	3000		NO VALUES FOUND FOR THIS PARAMETER
C 6 55	1	0080 STD-SCAN CONDITION				NO VALUES FOUND FOR THIS PARAMETER
N 6 56	5	PRESSURE DB .1	00944	01053		NO VALUES FOUND FOR THIS PARAMETER
N 6 61	5	TEMPERATURE DEG C .001	-2000	33000		NO VALUES FOUND FOR THIS PARAMETER
N 6 66	5	SALINITY % .001	10000	36500		NO VALUES FOUND FOR THIS PARAMETER
N 6 71	4	DENSITY .1	0315	3000		NO VALUES FOUND FOR THIS PARAMETER
C 6 75	1	0080 STD-SCAN CONDITION				NO VALUES FOUND FOR THIS PARAMETER
N 6 76	5	PRESSURE DB .1	00944	01053		NO VALUES FOUND FOR THIS PARAMETER
N 6 81	5	TEMPERATURE DEG C .001	-2000	33000		NO VALUES FOUND FOR THIS PARAMETER
N 6 86	5	SALINITY % .001	10000	36500		NO VALUES FOUND FOR THIS PARAMETER
N 6 91	4	DENSITY .1	0315	3000		NO VALUES FOUND FOR THIS PARAMETER
C 6 95	1	0080 STD-SCAN CONDITION				NO VALUES FOUND FOR THIS PARAMETER
N 6 96	5	PRESSURE DB .1	00944	01053		NO VALUES FOUND FOR THIS PARAMETER
N 6 101	5	TEMPERATURE DEG C .001	-2000	33000		NO VALUES FOUND FOR THIS PARAMETER
N 6 106	5	SALINITY % .001	10000	36500		NO VALUES FOUND FOR THIS PARAMETER
N 6 111	4	DENSITY .1	0315	3000		NO VALUES FOUND FOR THIS PARAMETER
C 6 115	1	0080 STD-SCAN CONDITION				NO VALUES FOUND FOR THIS PARAMETER
N 6 116	5	SEQUENCE NUMBER	00001	99999		NO VALUES FOUND FOR THIS PARAMETER
Z 7 11	5	STATION NUMBER				NO VALUES FOUND FOR THIS PARAMETER
N 7 16	5	PRESSURE DB .1	00000	60000		NO VALUES FOUND FOR THIS PARAMETER
N 7 21	5	TEMPERATURE DEG C .001	-2000	33000		NO VALUES FOUND FOR THIS PARAMETER

N 7	26	5	ELECTPICAL CONDUCTIVITY MMHO/CM .01	15000	40000	NO VALUES FOUND FOR THIS PARAMETER
B 7	31	4	BLANK(S)			NO VALUES FOUND FOR THIS PARAMETER
C 7	35	1	0080 STD-SCAN CONDITION			NO VALUES FOUND FOR THIS PARAMETER
N 7	36	5	PRESSURE DB .1	00000	60000	NO VALUES FOUND FOR THIS PARAMETER
N 7	41	5	TEMPERATURE DEG C .001	-2000	33000	NO VALUES FOUND FOR THIS PARAMETER
N 7	46	5	ELECTRICAL CONDUCTIVITY MMHO/CM .1	15000	40000	NO VALUES FOUND FOR THIS PARAMETER
B 7	51	4	BLANK(S)			NO VALUES FOUND FOR THIS PARAMETER
C 7	55	1	0080 STD-SCAN CONDITION			NO VALUES FOUND FOR THIS PARAMETER
N 7	56	5	PRESSURE DB .1	00000	60000	NO VALUES FOUND FOR THIS PARAMETER
N 7	61	5	TEMPERATURE DEG C .001	-2000	33000	NO VALUES FOUND FOR THIS PARAMETER
N 7	66	5	ELECTRICAL CONDUCTIVITY MMHO/CM .1	15000	40000	NO VALUES FOUND FOR THIS PARAMETER
B 7	71	4	BLANK(S)			NO VALUES FOUND FOR THIS PARAMETER
C 7	75	1	0080 STD-SCAN CONDITION			NO VALUES FOUND FOR THIS PARAMETER
N 7	76	5	PRESSURE DB .1	00000	60000	NO VALUES FOUND FOR THIS PARAMETER
N 7	81	5	TEMPERATURE DEG C .001	-2000	33000	NO VALUES FOUND FOR THIS PARAMETER
N 7	86	5	ELECTPICAL CONDUCTIVITY MMHO/CM .1	15000	40000	NO VALUES FOUND FOR THIS PARAMETER
B 7	91	4	BLANK(S)			NO VALUES FOUND FOR THIS PARAMETER
C 7	95	1	0080 STD-SCAN CONDITION			NO VALUES FOUND FOR THIS PARAMETER
N 7	96	5	PRESSURE DB .1	00000	60000	NO VALUES FOUND FOR THIS PARAMETER
N 7	101	5	TEMPERATURE DEG C .001	-2000	33000	NO VALUES FOUND FOR THIS PARAMETER
N 7	106	5	ELECTRICAL CONDUCTIVITY MMHO/CM .1	15000	40000	NO VALUES FOUND FOR THIS PARAMETER
B 7	111	4	BLANK(S)			NO VALUES FOUND FOR THIS PARAMETER
C 7	115	1	0080 STD-SCAN CONDITION			NO VALUES FOUND FOR THIS PARAMETER
N 7	116	5	SEQUENCE NUMBER 1.	00000	60000	NO VALUES FOUND FOR THIS PARAMETER

RECORDS READ : 1258  
 END OF PRELIMINARY TEST  
 PROCEEDING WITH STATION NUMBER TEST

@FREE ISAM.

@ASG,A NODC\*NTAXISAM.

@USE ISAM,NODC\*NTAXISAM.

@ASG,T SORTOUT..F///1000

@XQT NODC\*ABS\$.STATAX

STATION NUMBER SUMMARY

THE FOLLOWING STATION NUMBERS WERE DUPLICATED  
TRACK

STATION NUMBER

\*\*\*\*\* 0000 DUPLICATE STATIONS FOUND

\*\*\* NO TAXONOMY OR CAS CODES REPORTED \*\*\*

NANSEN REF. #

319242

MULDARS TRACK #

6370

MONITOR: CONTACT

CHUCK

LOCATION OF F022 SOURCE

ARCHIVES

RECORD ALL ERRORS FOUND

CONSEC(S)

23

ERRORS FOUND

Change day from 11 to 12.

Muldars corrections made 10/27/83.

Password:

accNo	fleA	refNo	proj	inst	ship	startDate	cruise	catId
8000544	F022	TR6370	9999	31I7	31HX	1980/06/11	HX02	313297
8000544	C022	319242	9999	31I7	31HX	1980/06/11	TR6370	313298

(2 rows affected)

Password:

accNo	fileA	refNo	ship	staCnt	recCnt	startDate	endDate
8000544	F022	TR6370	31HX	29	1258	80/06/11	80/06/13
8000544	C022	319242	31HX	29	29	80/06/11	80/06/13

(2 rows affected)