

INVENTORY
Record 18696 on screen
167195

Record found

8700066

DATA ENTRY INFORMATION SYSTEM
(DATASET INVENTORY)

FJM

OF ENTRY: 07/06/87

REFERENCE NUMBER: 323052

ACCESSION NUMBER: 8700066

FORMER REFERENCE NUMBER:

FORMER ACCESSION NUMBER:

(RESUB ONLY)

INVENTORY

MEDIA-IN: 01 - Digital Magnetic Tape DINDB CODE 09
EXCHANGE (FORMAT): E003 - Ocean Station Data (SD2-112 Byte)
PROCESSING (FORMAT): C100 - Ocean Station Data (SD2 Format)

* NOTE * If data is F022, create an additional record for C022.

INSTITUTE (COUNTRY AND INSTITUTE CODES): 3101
PLATFORM (COUNTRY AND PLATFORM CODES): 32MW
PLATFORM TYPE: 9 - Ship DINDB CODE 09

ORIGINATORS FILE ID: ORIGINATORS CRUISE ID: 34
CRUISE START DATE: 02/20/75 CRUISE END DATE: 03/09/85 Press PgDn
PROJECT CODE: 0078 DATA USE CODE (DUC): 3 to continue

F2ENTER F3VIEW F4EXIT F5FORM CLR F6FLD CLR F7DELETE F8MODIFY F9REPORT F10MULTI

INVENTORY

VOLUME - NUMBER OF STATIONS: 1 NUMBER OF RECORDS: 576

If STA/REC counts are not appropriate then enter -

NUMBER: UNITS:

AVERAGE REC SIZE: 112 MBYTES: 0.064512

OCEAN AREA

CODE 1: MEANING:
CODE 2: MEANING:
CODE 3: MEANING:

DINDB TRACK TRANSACTION GENERATED: 01/01/01

F2ENTER F3VIEW F4EXIT F5FORM CLR F6FLD CLR F7DELETE F8MODIFY F9REPORT F10MULTI

INVENTORY
Record 18698 on screen
167197

Record found

DATA ENTRY INFORMATION SYSTEM
(DATASET INVENTORY)

FJM

OF ENTRY: 07/06/87

REFERENCE NUMBER: 323053

ACCESSION NUMBER: 8700066

FORMER REFERENCE NUMBER:

FORMER ACCESSION NUMBER:

(RESUB ONLY)

INVENTORY

MEDIA-IN: 01 - Digital Magnetic Tape DINDB CODE 09
EXCHANGE (FORMAT): E003 - Ocean Station Data (SD2-112 Byte)
PROCESSING (FORMAT): C100 - Ocean Station Data (SD2 Format)

* NOTE * If data is F022, create an additional record for C022.

INSTITUTE (COUNTRY AND INSTITUTE CODES): 3101

PLATFORM (COUNTRY AND PLATFORM CODES): 32MW

PLATFORM TYPE: 9 - Ship DINDB CODE 09

ORIGINATORS FILE ID:

ORIGINATORS CRUISE ID: 34

CRUISE START DATE: 03/19/75

CRUISE END DATE: 03/31/75

Press PgDn

PROJECT CODE: 0078

DATA USE CODE (DUC): 3

to continue

F2ENTER F3VIEW F4EXIT F5FORM CLR F6FLD CLR F7DELETE F8MODIFY F9REPORT F10MULTI

INVENTORY

VOLUME - NUMBER OF STATIONS:

381

NUMBER OF RECORDS:

433

If STA/REC counts are not appropriate then enter -

NUMBER:

UNITS:

AVERAGE REC SIZE:

112

MBYTES:

0.048496

OCEAN AREA

CODE 1: MEANING:

CODE 2: MEANING:

CODE 3: MEANING:

DINDB TRACK TRANSACTION GENERATED: 01/01/01

F2ENTER F3VIEW F4EXIT F5FORM CLR F6FLD CLR F7DELETE F8MODIFY F9REPORT F10MULTI

INVENTORY
Record 18700 on screen
167199

Record found

DATA ENTRY INFORMATION SYSTEM
(DATASET INVENTORY)

FJM

OF ENTRY: 07/06/87

REFERENCE NUMBER: 323054 ACCESSION NUMBER: 8700066
FORMER REFERENCE NUMBER: FORMER ACCESSION NUMBER: (RESUB ONLY)

INVENTORY

MEDIA-IN: 01 - Digital Magnetic Tape DINDB CODE 09
EXCHANGE (FORMAT): E003 - Ocean Station Data (SD2-112 Byte)
PROCESSING (FORMAT): C100 - Ocean Station Data (SD2 Format)

* NOTE * If data is F022, create an additional record for C022.

INSTITUTE (COUNTRY AND INSTITUTE CODES): 3101
PLATFORM (COUNTRY AND PLATFORM CODES): 32MW
PLATFORM TYPE: 9 - Ship DINDB CODE 09

ORIGINATORS FILE ID: ORIGINATORS CRUISE ID: 34
CRUISE START DATE: 04/17/75 CRUISE END DATE: 05/27/75 Press PgDn
PROJECT CODE: 0078 DATA USE CODE (DUC): 3 to continue

F2ENTER F3VIEW F4EXIT F5FORM CLR F6FLD CLR F7DELETE F8MODIFY F9REPORT F10MULTI

INVENTORY

VOLUME - NUMBER OF STATIONS: 1 NUMBER OF RECORDS: 1,055

If STA/REC counts are not appropriate then enter -

NUMBER: UNITS:

AVERAGE REC SIZE: 112 MBYTES: 0.118160

OCEAN AREA

CODE 1: MEANING:
CODE 2: MEANING:
CODE 3: MEANING:

DINDB TRACK TRANSACTION GENERATED: 01/01/01

F2ENTER F3VIEW F4EXIT F5FORM CLR F6FLD CLR F7DELETE F8MODIFY F9REPORT F10MULTI

ACCESSION NO. 8700066

FILETYPE ~~F102~~
C100

TRACK NO. ~~178146~~
323052-4

PROJECT IDENTIFICATION
IDOE/NOPAX
ELNINO

STEP	DATE	INIT.	TAPE OR DISK DSN	NO. FILES	LRECL	BLK SIZE	NO. RECOR
ORIG. TAPE	03/05/87	CMH	AD0418	1	80	3200	
DUPLICATE TAPE	03/12/87	CMH	W01900 *X	1	80	3200	324
REFORMATTED TAPE							
REFORMATTED DISK		RS	DNODC* ELNINDOUT.	1	80	422	2,06
FIRST MULCHEK							
FINAL MULCHEK							
MPD75 OR F022							
DATA SET FINALIZED							

ERRORS REPORTED TO PRINCIPAL INVESTIGATOR:

DNODC * 8700066-01.

ADDITIONAL ERRORS/CORRECTIONS (NOT REPORTED TO P.I.)

COMMENTS (TRACKS DELETED, FIELDS DELETED, ETC.)

Copy to W' tape, scan W' tape

Bin 09

INPUT MEDIUM PAPER CARD DISK <u>TAPE</u> SKETTE OTHER(SPECIFY)	OUTPUT MEDIUM CARD DISK <u>PRINT</u> <u>TAPE</u> PLOT DISKETTE OTHER(SPECIFY) 1 file
--	--

DISKETTE INFORMATION

TAPE #/ DISKETTE	SLOT #	TRK	DENSITY	PARITY	LABEL TYPE	RECORD TYPE	RECORD LENGTH	MAX. BLOCK SIZE	#
A0418		9	1800	ODD	NL	F	80	3200	1
SECTOR SIZE	EXCHANGE TYPE	CODE: <u>ASCII</u> EBCDIC BCD SDF OTHER(SPECIFY)				DATA SET NAME			
TAPE #/ DISKETTE	SLOT #	TRK	DENSITY	PARITY	LABEL TYPE	RECORD TYPE	RECORD LENGTH	MAX. BLOCK SIZE	#
SECTOR SIZE	EXCHANGE TYPE	CODE: ASCII EBCDIC BCD SDF OTHER(SPECIFY)				DATA SET NAME			
TAPE #/ DISKETTE	SLOT #	TRK	DENSITY	PARITY	LABEL TYPE	RECORD TYPE	RECORD LENGTH	MAX. BLOCK SIZE	#
W81988		9	1600	ODD	SL	FB	80	3200	1
SECTOR SIZE	EXCHANGE TYPE	CODE: <u>ASCII</u> EBCDIC BCD SDF OTHER(SPECIFY)				DATA SET NAME DNODC*8700066-01			

GENERAL INSTRUCTIONS Send W' tape to Asheville, N.C.	ESTIMATED EXECUTION TIME
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USE ONLY

DATE JOB COMPLETED	START TIME	END TIME	PRIORITY	DEVICES USED, NUMBER OF TAPE MOUNTS, LINES PRI DISKETTES-USED, CARDS PUNCHED, CARDS KEYVERIF.
03/12/87	10:15	10:23	C	COMPLETED BY ANDY

8703108

THRESCAN

Bin 09

INPUT MEDIUM TAPE <u>TAPE</u> CARD DISK SKETTE OTHER(SPECIFY)	OUTPUT MEDIUM PRINT <u>PRINT</u> TAPE PLOT DISK DISKETTE OTHER(SPECIFY)
--	--

E/DISKETTE INFORMATION									
TAPE #/ DISKETTE	SLOT #	TRK	DENSITY	PARITY	LABEL TYPE	RECORD TYPE	RECORD LENGTH	MAX. BLOCK SIZE	#
APP 418		9							
SECTOR SIZE	EXCHANGE TYPE	CODE: <u>ASCII</u> EBCDIC BCD SDF OTHER(SPECIFY)				DATA SET NAME			
TAPE #/ DISKETTE	SLOT #	TRK	DENSITY	PARITY	LABEL TYPE	RECORD TYPE	RECORD LENGTH	MAX. BLOCK SIZE	#
SECTOR SIZE	EXCHANGE TYPE	CODE: ASCII EBCDIC BCD SDF OTHER(SPECIFY)				DATA SET NAME			
TAPE #/ DISKETTE	SLOT #	TRK	DENSITY	PARITY	LABEL TYPE	RECORD TYPE	RECORD LENGTH	MAX. BLOCK SIZE	#
SECTOR SIZE	EXCHANGE TYPE	CODE: ASCII EBCDIC BCD SDF OTHER(SPECIFY)				DATA SET NAME			

SPECIAL INSTRUCTIONS Please return tape APP 418 to Bin 09	ESTIMATED EXECUTION TIME
--	--------------------------

USE ONLY					
DATE JOB COMPLETED	START TIME	END TIME	PRIORITY	DEVICES USED, NUMBER OF TAPE MOUNTS, LINES PRI DISKETTES USED, CARDS PUNCHED, CARDS KEYVERIF	
03/5/87	15:36	15:38	C	COMPLETED BY ANDY	

03/05/87

TRANSMITTAL AND RECEIPT RECORD

(Please sign and return carbon copy acknowledging receipt)

To National Oceanographic Data Center
Universal Bldg. South
1825 Connecticut Ave., N.W.
Washington, D.C. 20235

REFER TO

ATTENTION
Anthony Picciolo

THE ITEM(S) LISTED BELOW WERE FORWARDED TO YOU BY

- ORDINARY MAIL REGISTERED MAIL AIR MAIL CERTIFIED MAIL GOVERNMENT TRUCK BY HAND OTHER

El Nino Watch Bottle Data

Magnetic Tape: 9 Track; ASCII; 800 bpi; Odd Parity

(DDF) 1 File; Block = 3200;

(Cover Letter) Record Length = 80

Ship: Moana Wave

Period: 02/11/75 - 05/27/75

Stas: 178

Grant: NSF / OCE 75-23358

NOTE: El Nino Watch CTD Data

Accession #7800703

Please acknowledge receipt of data, the assigned NODC numbers, and forward to:

Kristin Sanborn
PACODE, A-014
SIO
La Jolla, CA 92093

Thank you.

C100
SD2 format

8700066

A00418

FORWARDED BY (Signature) Nelson C. Ross, Jr.	TITLE Liaison Officer	DATE FORWARDED 2/3/87
RECEIVED BY (Signature) J. Mitchell	TITLE	DATE RECEIVED 2-13-87

STS/Physical & Chemical Oceanographic
Data Facility A-014

20 January 1987

TO: Mr. Nelson C. Ross, Jr.
NODC Representative
A-003
SWFC (NMFS)

FROM: Kristin M. Sanborn *Kristin*
Data Requests & Releases

SUBJECT: El Nino Watch Expedition NODC bottle data tape

Enclosed is the El Nino Expedition bottle data tape with appropriate documentation. I do not have the grant number for this expedition, however, it was funded by National Science Foundation.

Also, the CTD data for this expedition was submitted September 1978, but I do not have the accession number. Your help in obtaining this number for our files will be greatly appreciated.

kms

cc: David Wirth
Robert T. Williams

Enclosures: El Nino Watch bottle data tape with documentation

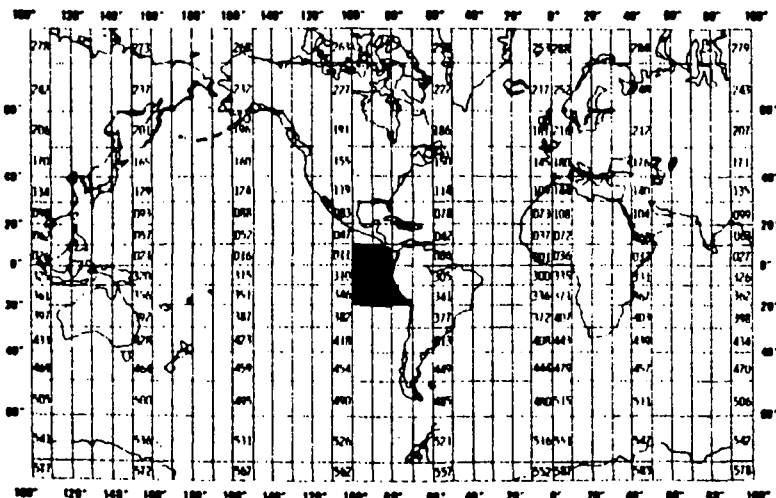
NIF OCE 75-23368

A. ORIGINATOR IDENTIFICATION

1. NAME AND ADDRESS OF INSTITUTION, LABORATORY WITH WHICH SUBMITTED DATA ARE ASSOCIATED:
Physical and Chemical Oceanographic Data Facility
Scripps Institution of Oceanography
University of California, San Diego A-014
La Jolla, CA 92093
2. EXPEDITION DURING WHICH DATA WERE COLLECTED:
EL NINO WATCH
3. CRUISE NUMBER USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT:
34
4. PLATFORM NAME:
MOANA WAVE
5. PLATFORM TYPE:
Research Vessel
6. PLATFORM AND OPERATOR NATIONALITY:
PLATFORM: U.S.A.
OPERATOR: U.S.A.
7. DATES: MO/DA/YR
FROM: 02/11/75
TO: 05/27/75
8. RELEASE DATE IF DATA PROPRIETARY:
N.A.
9. ARE DATA DECLARED NATIONAL PROGRAM (DNP)?
No
10. PERSON TO WHOM INQUIRIES CONCERNING DATA SHOULD BE ADDRESSED:
ADDRESS SAME AS # 1.
Robert T. Williams or Kristin M. Sanborn
(619) 534-4425 (619) 534-1904
or
Dr. Klaus Wyrski
Department of Oceanography
University of Hawaii
Honolulu, HI 96822
(808) 948-7037

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

GENERAL AREA



****B. SCIENTIFIC CONTENT

NAME OF DATA FIELD	REPORTING UNITS OR CODE	METHODS OF OBSERVATION AND INSTRUMENTS USED	ANALYTICAL METHODS (INCLUDING MODIFICATIONS) AND LABORATORY PROCEDURES	DATA PROCESSING TECHNIQUES WITH FILTERING AND AVERAGING
DEPTH	METERS	N. A.	N. A.	Calculated from pressure by integration of hydrostatic equation by Saunders (1981).
TEMPERATURE	CELSIUS	Neil Brown Mark III CTD	N. A.	Averaged over at least 1 roll period of ship
		Deep Sea Reversing Thermometers	N. A.	N. A.
SALINITY	PER MIL UNITS	Niskin Bottles	Duplicate measurements by Plessey inductive laboratory salinometer	N. A.
		Neil Brown Mark III CTD	N. A.	Calculated from conductivity by Woods Hole Oceanographic Institution Technical Memo #4-71
OXYGEN	MILLITERS/LITER	Niskin Bottles	WINKLER titration as revised by J. H. Carpenter (1965)	N. A.
PHOSPHATE	MICROGRAM-ATOMS/LITER	Niskin Bottles	Hydrazine reduction of phosphomolybdic acid Bernhardt & Wilhelms (1967) Technicon AutoAnalyzer	N. A.
SILICATE	MICROGRAM-ATOMS/LITER	Niskin Bottles	Stannous chloride reduction of silicomolybdic acid Armstrong et al. (1967) Technicon AutoAnalyzer	N. A.
NITRITE	MICROGRAM-ATOMS/LITER	Niskin Bottles	Diazotization and coupling to form dye. Method of Armstrong et al. (1967) Technicon AutoAnalyzer	N. A.
NITRATE	MICROGRAM-ATOMS/LITER	Niskin Bottles	Reduced by copperized cadmium; analyzed as Nitrite by method of Armstrong et al. (1967) Technicon AutoAnalyzer	N. A.

C. DATA FORMAT

1. RECORD TYPES

MASTER INFORMATION 1 - Identified by a 1 in
last character of logical record of 80 characters
MASTER INFORMATION 2 - Identified by a 2 in
last character of logical record of 80 characters
DATA RECORD - Identified by a 3 in
last character of logical record of 80 characters

2. DESCRIPTION OF FILE ORGANIZATION

Logical record length of 80 characters
Physical record length of 3200 characters
For each station, two master records followed by a data record for
each level
EOF at end of expedition

3. ATTRIBUTES AS EXPRESSED IN FORTRAN

4. LABEL
SCRIPPS INSTITUTION OF OCEANOGRAPHY
PHYSICAL & CHEMICAL OCEANOGRAPHIC
DATA FACILITY TAPE #03 (1984 SD Format)
ASCII; 800BPI NRZI; 9-TRACK; PARITY ODD;
FILES=1; BLOCK=3200; RECORD LENGTH=80
PROJECT: EL NINO WATCH
DATE: 15 September 1986

Total # of Stations = 178
Station numbers = 1 - 194
Stations reported = 3, 4, 6, 10-12, 14-15, 18-22, 25-26,
28-49, 51, 53-106, 108-121, 123-137, 139-158, 159-194

MASTER RECORD 1:

START ATTRIBUTES ITEM

COLUMN

```

** 1      I1  CONTINUATION INDICATOR
   2      1X  BLANK
** 3      I2  NODC REFERENCE NUMBER - COUNTRY
** 5      I1  NODC REFERENCE NUMBER - FILE CODE  always "5"
** 6      I4  NODC REFERENCE NUMBER - CRUISE NUMBER
** 10     I4  NODC CONSECUTIVE STATION NUMBER
** 14     I2  DATA TYPE
   16     2X  BLANK
   18     I4  TEN-DEGREE SQUARE, WMO
   22     I2  ONE-DEGREE SQUARE, WMO
   24     I2  TWO-DEGREE SQUARE, WMO
   26     I1  FIVE-DEGREE SQUARE, WMO
   27     A1  N OR S      HEMISPHERE OF LATITUDE
   28     I2  DEGREES LATITUDE
   30     I2  MINUTES LATITUDE
   32     I1  MINUTES LATITUDE, TENTHS
   33     A1  W OR E      HEMISPHERE OF LONGITUDE
   34     I3  DEGREES LONGITUDE
   37     I2  MINUTES LONGITUDE
   39     I1  MINUTES LONGITUDE, TENTHS
   40     I1  QUARTER OF ONE-DEGREE SQUARE, WMO
   41     I2  YEAR, GMT
   43     I2  MONTH OF YEAR, GMT
   45     I2  DAY OF MONTH, GMT
   47     F3.1 STATION TIME, GMT HOURS TO TENTHS
   50     I2  DATA ORIGIN - COUNTRY
   52     I2  DATA ORIGIN - INSTITUTION
   54     A2  DATA ORIGIN - PLATFORM
   56     I5  BOTTOM DEPTH (WHOLE METERS)
** 61     I4  EFFECTIVE DEPTH (WHOLE METERS)
** 65     F3.1 CAST DURATION (HOURS TO TENTHS)
** 68     A1  CAST DIRECTION (U=UP, D=DOWN, A=AVERAGE OF UP & DOWN CASTS)
   69     1X  BLANK
** 70     I1  DATA USE CODE
   71     I4  MINIMUM DEPTH
   75     I4  MAXIMUM DEPTH
   79     I1  ALWAYS 2 NEXT RECORD INDICATOR
   80     I1  ALWAYS 1 RECORD INDICATOR

```

** FIELD DEFINED BY NODC, CALCULATION NOT DONE BY THIS FACILITY.

MASTER RECORD 2:

START ATTRIBUTES ITEM
COLUMN

1	I4	DEPTH DIFFERENCE (BOTTOM DEPTH - MAXIMUM DEPTH)
** 5	2X	SAMPLE INTERVAL
** 7	A1	% SALINITY OBSERVED(0=1-9%, 9=90-99%, - = 0)
** 8	A1	% OXYGEN OBSERVED(0=1-9%, 9=90-99%, - = 0)
** 9	A1	% PHOSPHATE OBSERVED(0=1-9%, 9=90-99%, - = 0)
** 10	A1	% TOTAL PHOSPHOROUS OBSERVED(0=1-9%, 9=90-99%, - = 0)
** 11	A1	% SILICATE OBSERVED(0=1-9%, 9=90-99%, - = 0)
** 12	A1	% NITRITE OBSERVED(0=1-9%, 9=90-99%, - = 0)
** 13	A1	% NITRATE OBSERVED(0=1-9%, 9=90-99%, - = 0)
** 14	A1	% PH OBSERVED(0=1-9%, 9=90-99%, - = 0)
15	A3	ORIGINATOR'S CRUISE IDENTIFIER
18	A9	ORIGINATOR'S STATION IDENTIFIER
** 27	I2	WATER COLOR FOREL-ULE SCALE (00-21)
** 29	I2	WATER TRANSPARENCY SECCHI DEPTH (WHOLE METERS)
** 31	I2	WAVE DIRECTION - WMO CODE 0885
** 33	A1	WAVE HEIGHT - WMO CODE 1555
** 34	I1	SEA STATE
** 35	A2	WIND FORCE
** 37	I1	FILE UPDATE CODE
** 38	A1	WAVE PERIOD - WMO CODE 3155
** 39	I2	WIND DIRECTION - WMO CODE 0877
** 41	I2	WIND SPEED (KNOTS)
** 43	F5.1	BAROMETRIC PRESSURE, MILLIBARS
** 48	F4.1	DRY BULB TEMPERATURE, CELSIUS
** 52	I1	DRY BULB TEMPERATURE, PRECISION (0=WHOLE DEG, 1=TENTHS, 9=BLANK)
** 53	F4.1	WET BULB TEMPERATURE, CELSIUS
** 57	I1	WET BULB TEMPERATURE, PRECISION (0=WHOLE DEG, 1=TENTHS, 9=BLANK)
** 58	A2	WEATHER (X IN COL. 58 INDICATES WMO CODE 4501)
** 60	I1	CLOUD TYPE - WMO CODE 0500
** 61	I1	CLOUD AMOUNT - WMO CODE 2700
62	I3	NUMBER OF OBSERVED DEPTHS
** 65	I2	NUMBER OF STANDARD DEPTH LEVELS
67	I3	NUMBER OF DETAIL DEPTHS
70	9X	BLANK
79	I1	NEXT RECORD INDICATOR
80	I1	ALWAYS 2 RECORD INDICATOR

** FIELD DEFINED BY NODC, NO DATA SAMPLED OR
CALCULATION NOT DONE BY THIS FACILITY.

DATA RECORD:

START FORMAT ITEM
COLUMN

1	I5	DEPTH, WHOLE METERS
6	I1	DEPTH QUALITY INDICATOR
7	A1	THERMOMETRIC DEPTH FLAG
8	F5.3	TEMPERATURE, CELSIUS
13	I1	TEMPERATURE, PRECISION (1,2, OR 3, 9=BLANK)
14	I1	TEMPERATURE QUALITY INDICATOR
15	F5.3	SALINITY, PRACTICAL SALINITY UNITS
20	I1	SALINITY PRECISION (1,2, OR 3, 9=BLANK)
21	I1	SALINITY QUALITY INDICATOR
** 22	I4	SIGMA-T
** 26	I1	SIGMA-T QUALITY INDICATOR
** 27	I5	SOUND SPEED (METERS/SECOND TO TENTHS)
** 32	I1	SOUND SPEED PRECISION
33	F4.2	OXYGEN, MILLILITERS/LITER
37	I1	OXYGEN PRECISION (1 OR 2, 9=BLANK)
38	I1	OXYGEN QUALITY INDICATOR
** 39	I1	DATA RANGE CHECK FLAGS 0=IN RANGE, 1=OUT OF RANGE;PHOSPHATE > 4.00
** 40	I1	TOTAL PHOSPHATE < PHOSPHATE
** 41	I1	SILICATE > 300.0
** 42	I1	NITRITE > 4.0
** 43	I1	NITRATE > 45.0
** 44	I1	PH < 7.40 OR > 8.50
45	F3.1	CAST START TIME OR MESSENGER RELEASE TIME
48	I1	CAST NUMBER
49	F4.2	INORGANIC PHOSPHATE (MICROGRAM-ATOMS/LITER)
53	I1	INORGANIC PHOSPHATE, PRECISION (1,2 OR 9=BLANK)
** 54	F4.2	TOTAL PHOSPHOROUS
** 58	I1	TOTAL PHOSPHOROUS, PRECISION (1, 2 OR 9=BLANK)
59	F4.1	SILICATE (MICROGRAM-ATOMS/LITER)
63	I1	SILICATE PRECISION (1 OR 9=BLANK)
64	F3.2	NITRITE (MICROGRAM-ATOMS/LITER)
67	I1	NITRITE PRECISION (1, 2 OR 9=BLANK)
68	F3.1	NITRATE (MICROGRAM-ATOMS/LITER)
71	I1	NITRATE PRECISION (1 OR 9=BLANK)
** 72	F3.2	PH
** 75	I1	PH, PRECISION
76	2X	BLANK
** 78	I1	DENSITY INVERSION FLAG
79	I1	NEXT RECORD TYPE
80	I1	RECORD TYPE

** FIELD DEFINED BY NODC, NO DATA SAMPLED OR
CALCULATION NOT DONE BY THIS FACILITY.

D. INSTRUMENT CALIBRATION

INSTRUMENT TYPE	*DATE OF LAST * CALIBRATION	*INSTRUMENT CALIBRATED BY *	*INSTRUMENT IS CALIBRATED *
NEIL BROWN MARK III CTD*	* * *	* PHYSICAL & CHEMICAL OCEANOGRAPHIC * * DATA FACILITY * * SCRIPPS INSTITUTION OF OCEANOGRAPHY* * UNIVERSITY OF CALIFORNIA, SAN DIEGO*	BEFORE AND AFTER USE, AND BY COMPARISON AGAINST BOTTLE DATA
REVERSING THERMOMETER	* * * *	* PHYSICAL & CHEMICAL OCEANOGRAPHIC * * DATA FACILITY * * SCRIPPS INSTITUTION OF OCEANOGRAPHY* * UNIVERSITY OF CALIFORNIA, SAN DIEGO*	1-2 YEAR INTERVALS, AS NEEDED.
SALINOMETER	* * * *	* PHYSICAL & CHEMICAL OCEANOGRAPHIC * * DATA FACILITY * * SCRIPPS INSTITUTION OF OCEANOGRAPHY* * UNIVERSITY OF CALIFORNIA, SAN DIEGO*	WITH WORMLEY STANDARD SEA WATER BEFORE AND AFTER EACH RUN

Password:

accNo	fleA	refNo	proj	inst	ship	startDate	cruise	catId
8700066	C022	329517	0078	3101	32MW	1975/02/20	TT9814	168142
8700066	C022	329518	0078	3101	32MW	1975/03/19	TT9815	168143
8700066	C022	329519	0078	3101	32MW	1975/04/17	TT9816	168144
8700066	F022	TT9814	0078	3101	32MW	1975/02/20	34	168145
8700066	F022	TT9815	0078	3101	32MW	1975/03/19	34	168146
8700066	F022	TT9816	0078	3101	32MW	1975/04/17	34	168147
8700066	C100	323052	0078	3101	32MW	1975/02/20	34	168148
8700066	C100	323053	0078	3101	32MW	1975/03/19	34	168149
8700066	C100	323054	0078	3101	32MW	1975/04/17	34	168150

(9 rows affected)

Password:

accNo	fleA	refNo	ship	staCnt	recCnt	startDate	endDate
8700066	C022	329517	32MW	1	NULL	75/02/20	75/03/09
8700066	C022	329518	32MW	1	NULL	75/03/19	75/03/31
8700066	C022	329519	32MW	1	NULL	75/04/17	75/05/27
8700066	F022	TT9814	32MW	1	NULL	75/02/20	75/03/09
8700066	F022	TT9815	32MW	1	NULL	75/03/19	75/03/31
8700066	F022	TT9816	32MW	1	NULL	75/04/17	75/05/27
8700066	C100	323052	32MW	45	7	75/02/20	75/03/09
8700066	C100	323053	32MW	38	38	75/03/19	75/03/31
8700066	C100	323054	32MW	94	94	75/04/17	75/05/27

(9 rows affected)