

10/03/89

TO: E/OC12 - Branch Chief ←

E/OC11 - P. Hadsell

FROM: E/OC13 - A. Picciolo

SUBJECT: Data Transfer

The following listed data sets have been transferred as indicated:

Ocean Stations

(C100)

Acc: 8900155 Ref: 323079 - 323079 104 sta. 2,814 rec.

(WEPOCS II)

cc: Division Director

WORK NO. 8900155

FILETYPE _____

TITLE NO. _____

PROJECT IDENTIFICATION _____

	DATE	INIT.	TAPE OR DISK DSN	NO. FILES	LRECL	BLK SIZE	NO. RECORDS
TAPE	05/26/89	CMH	A00912	1	80	3200	2918
DATE TAPE	05/31/89	CMH	W08079	1	80	3200	2918
ATTACHED TAPE	8/23/89		W04284 **	1	112	11200	2814
ATTACHED DISK							
CHECK							
CHECK							
RF022							
FINALIZED							

REPORTED TO PRINCIPAL INVESTIGATOR: W08079 is 9 TRK, SL, 1600 bpi
 DSN=DNODC*8900155-01.

** LABEL: DNODC*WEPACOUT.

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

DELETIONS (TRACKS DELETED, FIELDS DELETED, ETC.)

USER NAME <i>Cliff Hentley</i>	PHONE # <i>673-5636</i>	ORG/TASK # <i>EG1200 SN3AH9</i>	DATE SUBMITTED <i>05/30/89</i>	DATE DUE <i>ASAP</i>	BIN # <i>09</i>
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EQUIPMENT TO BE USED AND FUNCTION TO BE PERFORMED

Copy to a 'W' tape
Please scan 'W' tape

INPUT MEDIUM PAPER <input type="checkbox"/> CARD <input type="checkbox"/> DISK <input type="checkbox"/> TAPE <input checked="" type="checkbox"/> DISKETTE OTHER(SPECIFY)	OUTPUT MEDIUM CARD <input type="checkbox"/> DISK <input type="checkbox"/> PRINT <input checked="" type="checkbox"/> TAPE <input checked="" type="checkbox"/> PLOT <input type="checkbox"/> DISKETTE OTHER(SPECIFY)
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TAPE/DISKETTE INFORMATION

	TAPE #/ DISKETTE	SLOT #	TRK	DENSITY	PARITY	LABEL TYPE	RECORD TYPE	RECORD LENGTH	MAX. BLOCK SIZE	# OF FILES	
INPUT	<i>A00912</i>		<i>9</i>	<i>1600</i>	<i>ODD</i>	<i>NL</i>	<i>FB</i>	<i>80</i>	<i>3200</i>	<i>1</i>	
	SECTOR SIZE	EXCHANGE TYPE	CODE: ASCII EBCDIC BCD SDF OTHER(SPECIFY)				DATA SET NAME				PURGE DATE
	TAPE #/ DISKETTE	SLOT #	TRK	DENSITY	PARITY	LABEL TYPE	RECORD TYPE	RECORD LENGTH	MAX. BLOCK SIZE	# OF FILES	
	SECTOR SIZE	EXCHANGE TYPE	CODE: ASCII EBCDIC BCD SDF OTHER(SPECIFY)				DATA SET NAME				PURGE DATE
OUTPUT	<i>W08079</i>		<i>9</i>	<i>1600</i>	<i>ODD</i>	<i>SE</i>	<i>FB</i>	<i>80</i>	<i>3200</i>	<i>1</i>	
	SECTOR SIZE	EXCHANGE TYPE	CODE: ASCII EBCDIC BCD SDF OTHER(SPECIFY)				DATA SET NAME <i>DNBDC#8900155-01</i>				PURGE DATE
	TAPE #/ DISKETTE	SLOT #	TRK	DENSITY	PARITY	LABEL TYPE	RECORD TYPE	RECORD LENGTH	MAX. BLOCK SIZE	# OF FILES	
	SECTOR SIZE	EXCHANGE TYPE	CODE: ASCII EBCDIC BCD SDF OTHER(SPECIFY)				DATA SET NAME				PURGE DATE

SPECIAL INSTRUCTIONS

*Please send 'W' tape
to Asheville, N.C.*

ESTIMATED
EXECUTION
TIME

D731 USE ONLY

JOB #	DATE JOB COMPLETED	START TIME	END TIME	PRIORITY	DEVICES USED, NUMBER OF TAPE MOUNTS, LINES PRINTED DISKETTES USED, CARDS PUNCHED, CARDS KEYVERIFIED

COMMENTS

USER NAME: Cliff Hartley | ID # 673-536 | DIVISION # EG12005N317H9 | DATE SUBMITTED 05/25/89 | DATE DUE ASAP | BIN # 09

DEPARTMENT TO BE USED AND FUNCTION TO BE PERFORMED

Please scan tape

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

	<u>TAPE #/</u> DISKETTE	SLOT #	TRK	DENSITY	PARITY	LABEL TYPE	RECORD TYPE	RECORD LENGTH	MAX. BLOCK SIZE	# OF FILES	
	INPUT	<u>A00912</u>		<u>9</u>	<u>1600</u>	<u>ODD</u>					
SECTOR SIZE		EXCHANGE TYPE	CODE: ASCII EBCDIC BCD SDF OTHER(SPECIFY)				DATA SET NAME				PURGE DATE
<u>TAPE #/</u> DISKETTE		SLOT #	TRK	DENSITY	PARITY	LABEL TYPE	RECORD TYPE	RECORD LENGTH	MAX. BLOCK SIZE	# OF FILES	
SECTOR SIZE		EXCHANGE TYPE	CODE: ASCII EBCDIC BCD SDF OTHER(SPECIFY)				DATA SET NAME				PURGE DATE
OUTPUT	<u>TAPE #/</u> DISKETTE	SLOT #	TRK	DENSITY	PARITY	LABEL TYPE	RECORD TYPE	RECORD LENGTH	MAX. BLOCK SIZE	# OF FILES	
	SECTOR SIZE	EXCHANGE TYPE	CODE: ASCII EBCDIC BCD SDF OTHER(SPECIFY)				DATA SET NAME				PURGE DATE
	<u>TAPE #/</u> DISKETTE	SLOT #	TRK	DENSITY	PARITY	LABEL TYPE	RECORD TYPE	RECORD LENGTH	MAX. BLOCK SIZE	# OF FILES	
	SECTOR SIZE	EXCHANGE TYPE	CODE: ASCII EBCDIC BCD SDF OTHER(SPECIFY)				DATA SET NAME				PURGE DATE

SPECIAL INSTRUCTIONS
Please return tape A00912 to Bin 09

ESTIMATED EXECUTION TIME

731 USE ONLY

JOB #	DATE JOB COMPLETED	START TIME	END TIME	PRIORITY	DEVICES USED, NUMBER OF TAPE MOUNTS, LINES PRINTED DISKETTES USED, CARDS PUNCHED, CARDS KEYVERIFIED

REMARKS

May 17, 1989

TRANSMITTAL

NATIONAL OCEANOGRAPHIC DATA CENTER
WASHINGTON DC 20235

ATTN: ANTHONY PICCIOLO

FORWARDED:

ONE (1) MAGNETIC TAPE CONTAINING HYDROGRAPHIC DATA
(PLUS SUPPORTING DOCUMENTATION)

DATA WERE SUBMITTED BY SIO

EXPEDITION: WESTERN EQUATORIAL PACIFIC OCEAN CIRCULATION STUDY II
(WEPOCS II)

104 OBSERVATIONS

NSF GRANT NO(S): OCE 8415602
OCE 8416383

PLEASE ACKNOWLEDGE RECEIPT OF DATA AND FORWARD THE ASSIGNED NODC
REFERENCE NUMBERS TO SIO/IMR, A-030, LA JOLLA CA 92093, ATTN; ROBERT
WILLIAMS OR KRISTIN SANBORN OR MIZUKI TSUCHIYA.

CC: SIO

8900155
A00912



STS/Oceanographic Data Facility
A-014

REF: 890509CC

May 9, 1989

TO: Mr. Nelson Ross
NODC Representative
A-003

FROM: Kristin Sanborn
Data Requests & Releases

Kristin

SUBJECT: WEPOCS II

Enclosed is the Western Equatorial Pacific Ocean Circulation Study II (WEPOCS II) bottle data tape in the 1984 SD format, with documentation.

The grant number for this is OCE-8415602 and OCE-8416383.

kms

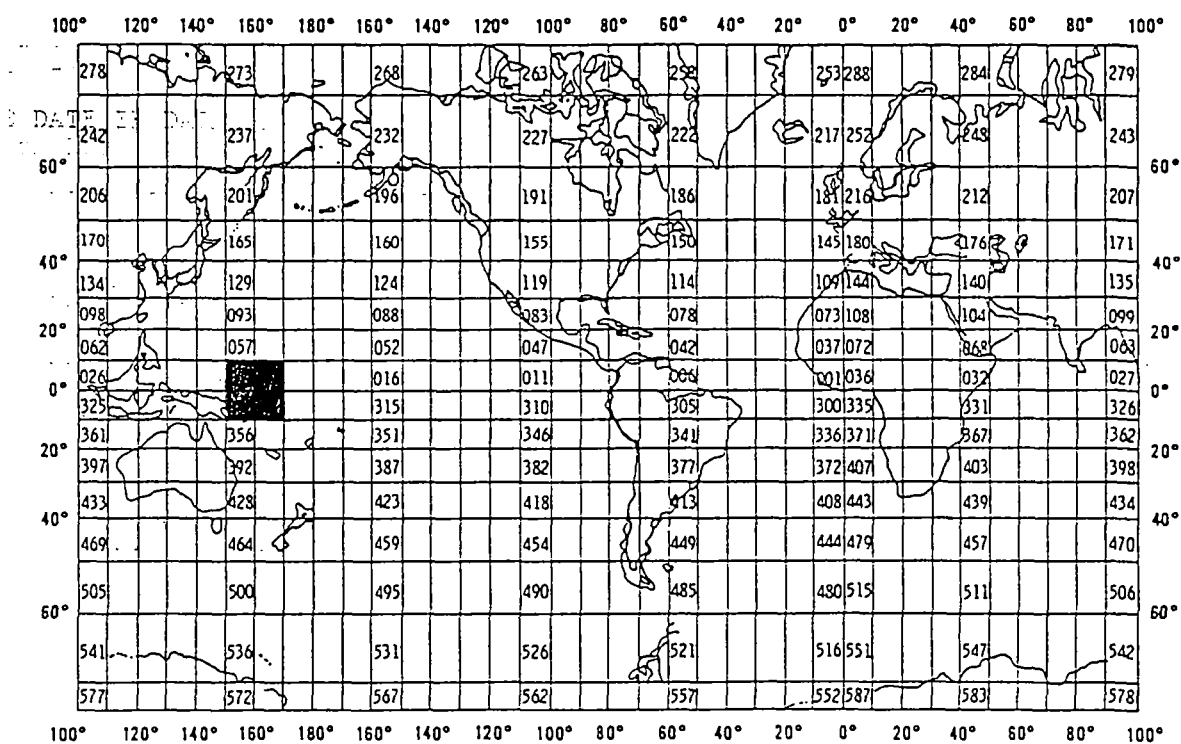
Enclosures: WEPOCS II SD tape #34 with documentation

A. ORIGINATOR IDENTIFICATION

1. NAME AND ADDRESS OF INSTITUTION, LABORATORY WITH WHICH SUBMITTED DATA ARE ASSOCIATED:
University of California, San Diego
Scripps Institution of Oceanography
Oceanographic Data Facility A-014
La Jolla, CA 92093
2. EXPEDITION DURING WHICH DATA WERE COLLECTED:
Western Equatorial Pacific Ocean Circulation Study II (a.k.a. WEPOCS II)
3. CRUISE NUMBER USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT:
295
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: 01/13/86
TO: 02/14/86
8. RELEASE DATE IF DATA PROPRIETARY:
March 1988
9. ARE DATA DECLARED NATIONAL PROGRAM (DNP)?
Yes
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) 534-1905
or
Dr. Mizuki Tsuchiya
IMR
Scripps Institution of Oceanography
University of California, San Diego A-030
La Jolla, CA 92093
(619) 534-3236

OCE 8415602
8416383

GENERAL AREA



****B. SCIENTIFIC CONTENT

DATA FIELD and REPORTING UNITS	*METHODS OF *OBSERVATION *AND INSTRUMENTS *USED *	*ANALYTICAL METHODS *(INCLUDING TECHNIQUES, *MODIFICATIONS) AND *AND LABORATORY * PROCEDURES	*DATA PROCESSING *WITH FILTERING *AND *AVERAGING *
DEPTH Meters	* N.A. * * * * *	* N.A. * * * * *	*Calculated from *pressure by *integration of *hydrostatic *equation by *Saunders (1981).
TEMPERATURE Degrees Celsius	* Neil Brown * Mark III CTD * * * Deep Sea * Reversing * Thermometers	* N.A. * * * * N.A. * * *	*Averaged over at *least 1 roll *period of ship * N.A. * *
SALINITY Practical Salinity Units	* Niskin Bottles * * * * * * * Neil Brown * Mark III CTD	*Duplicate *measurements *by Guildline Model *Model 8400A *laboratory salinometer* *Wormley SSW #P-96 * N.A. *	* PSS-78 * * * * * * PSS-78, *SEE TEMPERATURE
OXYGEN Milliter per Liter	*Niskin Bottles * *	*WINKLER titration as *revised by *J. H. Carpenter (1965)*	*N.A. * *
PHOSPHATE Microgram-atoms per Liter	*Niskin Bottles * * * *	*Hydrazine reduction of *phosphomolybdic acid *Bernhardt & Wilhelms *(1967) *Technicon AutoAnalyzer*	* N.A. * * * *
SILICATE Microgram-atoms per Liter	*Niskin Bottles * * * * *	*Stannous chloride *reduction of *silicomolybdic acid *Method of *Armstrong et al. *(1967) *Technicon AutoAnalyzer*	* N.A. * * * * *
NITRITE Microgram-atoms per Liter	*Niskin Bottles * * * *	*Diazotization and *coupling to form dye *Method of *Armstrong et al. *(1967) *Technicon AutoAnalyzer*	*N.A. * * * *
NITRATE Microgram-atoms per 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
Oceanographic Data Facility
TAPE #34 (1984 SD FORMAT)
ASCII;1600BPI NRZI;9-TRACK;PARITY ODD;
FILES=1;BLOCK=3200;RECORD LENGTH=80
PROJECT: Western Equatorial Pacific Ocean Circulation Study II
(WEPOCS II)
DATE: 17 March 1987

Total # of Stations = 104
Station numbers = 1-104
Stations reported = 104

MASTER RECORD 1:

START ATTRIBUTES ITEM
COLUMN

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** 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

START COLUMN	ATTRIBUTES	ITEM
1	I4	DEPTH DIFFERENCE (BOTTOM DEPTH - MAXIMUM DEPTH)
** 5	2X	SAMPLE INTERVAL
** 7	A1	Z SALINITY OBSERVED(0=1-9%, 9=90-99%, - = 0)
** 8	A1	Z OXYGEN OBSERVED(0=1-9%, 9=90-99%, - = 0)
** 9	A1	Z PHOSPHATE OBSERVED(0=1-9%, 9=90-99%, - = 0)
** 10	A1	Z TOTAL PHOSPHOROUS OBSERVED(0=1-9%, 9=90-99%, - = 0)
** 11	A1	Z SILICATE OBSERVED(0=1-9%, 9=90-99%, - = 0)
** 12	A1	Z NITRITE OBSERVED(0=1-9%, 9=90-99%, - = 0)
** 13	A1	Z NITRATE OBSERVED(0=1-9%, 9=90-99%, - = 0)
** 14	A1	Z 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 ATTRIBUTES ITEM
COLUMN

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

Questionable Data as determined by PACODF
NODC SD tape format has no provision for quality indicator for nutrients.
Sample Number is cast number x 100 + bottle number.

STATION SAMPLE DEPTH REMARKS
NUMBER

096	111	252	Footnote high phosphate uncertain; possible contamination.
102	125	4610	Footnote silicate uncertain; 3 micromoles per liter low.

Tabulation of Salinities extracted from CTD data with supporting remarks.
Sample Number is cast number x 100 + bottle number

STATION SAMPLE DEPTH REMARKS
NUMBER

002	199	2	CTD data report for surface level.
003	104	119	No water samples; lanyard hangup.
007	111	1647	Deleted salinity; drawing error.
007	112	1725	Deleted salinity; drawing error.
029	199	5	CTD data report for surface level.
031	104	128	No water samples; lanyard hangup.
039	122	4335	Deleted low salinity.
040	120	3735	Deleted all water samples; air vent was loose.
042	125	3700	Deleted all water samples; valve was not closed.
046	114	385	No water samples; lanyard hangup.
057	199	2	CTD data report for surface level.
059	123	927	No water samples; bottle cocking error.
078	122	1483	Deleted salinity; assume duplicate draw or run.
084	199	1	CTD data report for surface level.
087	120	1598	Deleted salinity; assume duplicate draw or run.
088	104	126	No water left for salinity.
095	199	1	CTD data report for surface level.
100	240	322	No water samples; lanyard hangup.
100	120	3540	Deleted high salinity.
102	101	9	No salinity sample, drawing error.
103	106	1473	Deleted salinity; appears to have been recorded incorrectly.
103	117	2760	Deleted high salinity.

Password:

accNo	fleA	refNo	proj	inst	ship	startDate	cruise	catId
8900155	C100	323079	0176	3101	32MW	1986/01/14	295	184994

(1 row affected)

Password:

accNo	fileA	refNo	ship	staCnt	recCnt	startDate	endDate
8900155	C100	323079	32MW	104	122	86/01/14	86/02/12

(1 row affected)