

ACCESSION NO. 8600292

FILETYPE C100

TRACK NO. 313187  
313188

PROJECT  
IDENTIFICATION Tropical  
Pre/code Atlantic Study  
0122

STEP	DATE	INIT.	TAPE OR DISK DSN	NO. FILES	RECL	BLK SIZE	NO. RECORDS
ORIG. TAPE	<u>1/8</u>	<u>20W</u>	<u>A00307</u>	<u>1</u>	<u>80</u>	<u>3200</u>	<u>10702</u>
DUPLICATE TAPE	<u>1/12</u>		<u>W13399</u>	<u>1</u>	<u>80</u>	<u>3200</u>	<u>3840</u>
REFORMATTED TAPE	<del>10/12/87</del>						
REFORMATTED DISK	<u>10/12/87</u>	<u>R.P.S</u>	<u>DNODEX TABYOUT.</u>	<u>1</u>	<u>112</u>	<u>224</u>	<u>3289</u>
FIRST MULCHEK							
FINAL MULCHEK							
MPD75 OR F022							
DATA SET FINALIZED							

ERRORS REPORTED TO PRINCIPAL INVESTIGATOR:

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

COMMENTS (TRACKS DELETED, FIELDS DELETED, ETC.)

DNODEX 8600292-01



## INVENTORY

Record found

Record 2667 on screen  
170295DATA ENTRY INFORMATION SYSTEM  
(DATASET INVENTORY)

FJM

OF ENTRY: 11/19/87

REFERENCE NUMBER: 313187

ACCESSION NUMBER: 8600292

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): 316N

PLATFORM TYPE: 9 - Ship

DINDB CODE 09

ORIGINATORS FILE ID:

ORIGINATORS CRUISE ID: 235

CRUISE START DATE: 12/02/82

CRUISE END DATE: 12/18/82

Press PgDn

PROJECT CODE: 0122

DATA USE CODE (DUC): 3

to continue

F2ENTER F3VIEW F4EXIT F5FORM CLR F6FLD CLR F7DELETE F8MODIFY F9REPORT F10MULTI

## INVENTORY

VOLUME - NUMBER OF STATIONS:

32

NUMBER OF RECORDS:

865

If STA/REC counts are not appropriate then enter -

NUMBER:

UNITS:

AVERAGE REC SIZE:

112

MBYTES:

0.096880

## OCEAN AREA

CODE 1:

MEANING:

CODE 2:

MEANING:

CODE 3:

MEANING:

DINDB TRACK TRANSACTION GENERATED: / /

F2ENTER F3VIEW F4EXIT F5FORM CLR F6FLD CLR F7DELETE F8MODIFY F9REPORT F10MULTI



## INVENTORY

Record found

Record 2668 on screen:  
170296DATA ENTRY INFORMATION SYSTEM  
(DATASET INVENTORY)

FJM

OF ENTRY: 11/19/87

REFERENCE NUMBER: 313188

ACCESSION NUMBER: 8600292

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): 316N

PLATFORM TYPE: 9 - Ship

DINDB CODE 09

ORIGINATORS FILE ID:

ORIGINATORS CRUISE ID: 235

CRUISE START DATE: 12/31/82

CRUISE END DATE: 02/18/83

Press PgDn

PROJECT CODE: 0122

DATA USE CODE (DUC): 3

to continue

F2ENTER F3VIEW F4EXIT F5FORM CLR F6FLD CLR F7DELETE F8MODIFY F9REPORT F10MULTI

## INVENTORY

VOLUME - NUMBER OF STATIONS:

78

NUMBER OF RECORDS:

2,424

If STA/REC counts are not appropriate then enter -

NUMBER:

UNITS:

AVERAGE REC SIZE:

112

MBYTES:

0.271488

## OCEAN AREA

CODE 1:

MEANING:

CODE 2:

MEANING:

CODE 3:

MEANING:

DINDB TRACK TRANSACTION GENERATED: / /

F2ENTER F3VIEW F4EXIT F5FORM CLR F6FLD CLR F7DELETE F8MODIFY F9REPORT F10MULTI



## TRANSMITTAL AND RECEIPT RECORD

(Please sign and return carbon copy acknowledging receipt)

TO: National Oceanographic Data Center  
Universal Building, 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

## Forward:

- (1) Magnetic tape containing Transient Tracers in the Ocean - Tropical Atlantic Bottle Data.
- (1) DDF (facsimile)
- (1) Cover letter

Note: Expedition funded by NSF Grant OCE 81-17844

Please forward an acknowledgement of receipt of data and the NODC assigned reference numbers to Kristin Sanborn, PACODF, A014, SIO, La Jolla, CA 92093

cc: K. Sanborn, SIO

8600292

TAPE A00307

FORWARDED BY (Signature)  
Nelson C. Ross, JR.TITLE  
Liaison OfficerDATE FORWARDED  
8/25/86RECEIVED BY (Signature)  
C. Mitchell

TITLE

DATE RECEIVED  
9/3/86



UNIVERSITY OF CALIFORNIA, SAN DIEGO

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SANTA BARBARA • SANTA CRUZ

SCRIPPS INSTITUTION OF OCEANOGRAPHY

STS/Physical & Chemical Oceanographic  
Data Facility A-014

LA JOLLA, CALIFORNIA 92093

20 August 1986

Mr. Nelson C. Ross, Jr.  
NODC Representative  
A-003  
SWFC (NMFS)  
La Jolla, CA 92093

Dear Nelson:

Enclosed are the Transient Tracers in the Ocean - Tropical Atlantic  
Study bottle data tapes with documentation.

The funding was by National Science Foundation under Grant OCE 81-17844.

Sincerely,

A handwritten signature in cursive script, reading "Kristin".

Kristin M. Sanborn  
Data Requests & Releases

kms

cc: David Wirth

Robert T. Williams

Dr. Curtis A. Collins

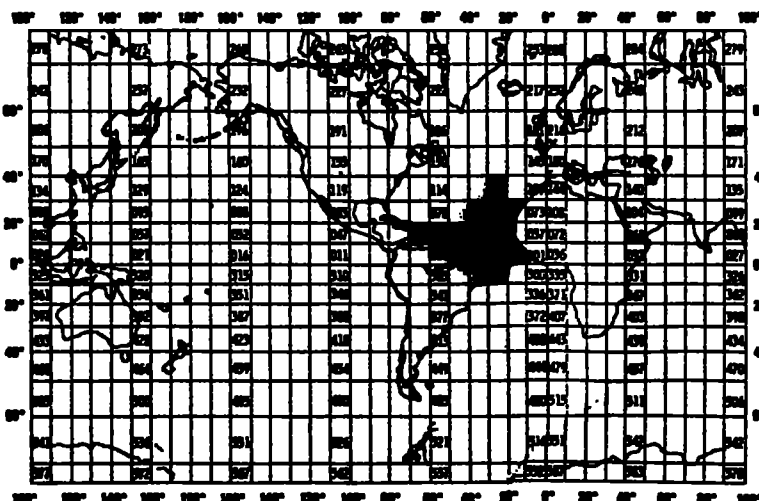
Enclosures: Bottle data tape #22 with documentation



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:  
TRANSIENT TRACERS IN THE OCEAN - TROPICAL ATLANTIC STUDY
3. CRUISE NUMBER USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT:  
235 ✓
4. PLATFORM NAME: 316N  
RV KNORR
5. PLATFORM TYPE:  
RESEARCH VESSEL
6. PLATFORM AND OPERATOR NATIONALITY:  
PLATFORM: U.S.A.  
OPERATOR: U.S.A.
7. DATES: MO/DA/YR ✓  
FROM: 12/01/82  
TO: 02/18/83
8. RELEASE DATE IF DATA PROPRIETARY:  
N.A.
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

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

GENERAL AREA





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
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	PRACTICAL SALINITY UNITS	Niskin Bottles	Duplicate measurements by Guildline Model 8400 laboratory salinometer	N. A. PSS-78
		Neil Brown Mark III CTD	N. A.	PSS-78, SEE TEMPERATURE
OXYGEN	MILLILITERS/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 Technicon AutoAnalyzer Bernhardt & Wilhelms (1967)	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 - IDENTIFIED BY A 1 IN  
LAST CHARACTER OF LOGICAL RECORD OF 80 CHARACTERS

MASTER INFORMATION - 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 RECORD FOLLOWED BY A DATA RECORD FOR EACH  
LEVEL

EOF AT END OF A CRUISE

### 3. ATTRIBUTES AS EXPRESSED IN FORTRAN

#### 4. LABEL

SCRIPPS INSTITUTION OF OCEANOGRAPHY

PHYSICAL & CHEMICAL OCEANOGRAPHIC

DATA FACILITY TAPE #22

ASCII;800BPI NRZI;9-TRACK;PARITY ODD;

FILES=1;BLOCK=3200;RECORD LENGTH=80

PROJECT: TIO-TAS (1984 SD FORMAT)

DATE: 1 AUGUST 1986

LEG 1 STATIONS 1 - 32

LEG 2 STATIONS 55 - 94

LEG 3 STATIONS 95 - 132



MASTER RECORD 1:

\*\*\*\*\*

START FORMAT ITEM

COLUMN

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** 1  I1  CONTINUATION INDICATOR
** 2  I1X 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, WHO
** 22 I2  ONE-DEGREE SQUARE, WHO
** 24 I2  TWO-DEGREE SQUARE, WHO
** 26 I1  FIVE-DEGREE SQUARE, WHO
** 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, WHO
** 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 I1X 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

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



# MASTER RECORD 2:

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## START FORMAT 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
** 29	I2	WATER TRANSPARENCY SECCHI DEPTH (WHOLE METERS)
** 31	I2	WAVE DIRECTION
** 33	A1	WAVE HEIGHT
** 34	I1	SEA STATE
** 35	A2	WIND FORCE
** 37	I1	FILE UPDATE CODE
** 38	A1	WAVE PERIOD
** 39	I2	WIND DIRECTION
** 41	I2	WIND SPEED
** 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 ONE DIGIT CODE)
** 60	I1	CLOUD TYPE
** 61	I1	CLOUD AMOUNT
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 CALCULATIONS NOT DONE BY THIS FACILITY.



DATA RECORD:

\*\*\*\*\*

START FORMAT ITEM

COLUMN

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1	I5	DEPTH, 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, PARTS/THOUSAND
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, CALCULATION NOT DONE BY THIS FACILITY.



# **D. INSTRUMENT CALIBRATION**

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



**TABULATION OF SALINITIES REPORTED FROM CTD DATA WITH SUPPORTING REMARKS.**

<b>STATION</b>	<b>SAMPLE DEPTH NUMBER</b>		
1	102 10	BOTTLE SALINITY NOT DRAWN AS PER SAMPLING SCHEDULE.	
1	114 1251	BOTTLE SALINITY NOT DRAWN AS PER SAMPLING SCHEDULE.	
1	124 2487	BOTTLE SALINITY NOT DRAWN AS PER SAMPLING SCHEDULE.	
6	101 8	NO BOTTLE SALINITY BECAUSE OF LACK OF WATER.	
10	122 2486	NO BOTTLE SALINITY BECAUSE OF LACK OF WATER.	
13	122 5093	BOTTLE SALINITY NOT DRAWN AS PER SAMPLING SCHEDULE.	
16	119 4164	SAMPLING BOTTLE MALFUNCTION; THEREFORE, NO BOTTLE SALINITY.	
16	123 5304	SAMPLING BOTTLE MALFUNCTION; THEREFORE, NO BOTTLE SALINITY.	
21	122 1875	SAMPLING BOTTLE MALFUNCTION; THEREFORE, NO BOTTLE SALINITY.	
29	102 10	NO BOTTLE SALINITY ANALYZED.	
30	103 15	BOTTLE SALINITY NOT DRAWN AS PER SAMPLING SCHEDULE.	
30	105 15	BOTTLE SALINITY NOT DRAWN AS PER SAMPLING SCHEDULE.	
30	106 25	BOTTLE SALINITY NOT DRAWN AS PER SAMPLING SCHEDULE.	
30	107 33	BOTTLE SALINITY NOT DRAWN AS PER SAMPLING SCHEDULE.	
30	108 45	BOTTLE SALINITY NOT DRAWN AS PER SAMPLING SCHEDULE.	
32	102 0	BOTTLE SALINITY NOT DRAWN AS PER SAMPLING SCHEDULE.	
32	104 4	BOTTLE SALINITY NOT DRAWN AS PER SAMPLING SCHEDULE.	
32	106 8	BOTTLE SALINITY NOT DRAWN AS PER SAMPLING SCHEDULE.	
32	108 12	BOTTLE SALINITY NOT DRAWN AS PER SAMPLING SCHEDULE.	
32	109 18	BOTTLE SALINITY NOT DRAWN AS PER SAMPLING SCHEDULE.	
55	316 1265	BOTTLE SALINITY DELETED, APPEARS TO HAVE BEEN DRAWING ERROR.	
57	110 458	BOTTLE SALINITY DELETED, APPEARS TO HAVE BEEN DRAWING ERROR.	
58	115 986	SAMPLING BOTTLE MALFUNCTION; THEREFORE, NO BOTTLE SALINITY.	
58	118 1601	SAMPLING BOTTLE MALFUNCTION; THEREFORE, NO BOTTLE SALINITY.	
59	216 987	SAMPLING BOTTLE MALFUNCTION; THEREFORE, NO BOTTLE SALINITY	
63	136 1982	HIGH BOTTLE SALINITY VALUE DELETED.	
63	139 4283	HIGH BOTTLE SALINITY VALUE DELETED.	
64	137 1879	SAMPLING BOTTLE MALFUNCTION; THEREFORE, NO BOTTLE SALINITY.	
65	109 370	SAMPLING BOTTLE MALFUNCTION; THEREFORE, NO BOTTLE SALINITY.	
65	116 1621	SAMPLING BOTTLE MALFUNCTION; THEREFORE, NO BOTTLE SALINITY.	
65	136 2185	SAMPLING BOTTLE MALFUNCTION; THEREFORE, NO BOTTLE SALINITY.	
65	137 3087	HIGH BOTTLE SALINITY VALUE DELETED.	
65	139 3976	HIGH BOTTLE SALINITY VALUE DELETED.	
66	233 796	HIGH BOTTLE SALINITY VALUE DELETED.	
66	216 1711	NO BOTTLE SALINITY BECAUSE OF LACK OF WATER.	



**TABULATION OF SALINITIES REPORTED FROM CTD DATA WITH SUPPORTING REMARKS.**

78	111	513	SAMPLING BOTTLE MALFUNCTION; THEREFORE, NO BOTTLE SALINITY.
80	219	2287	SAMPLING BOTTLE MALFUNCTION; THEREFORE, NO BOTTLE SALINITY.
80	240	3974	NO BOTTLE SALINITY BECAUSE OF LACK OF WATER.
81	103	155	HIGH BOTTLE SALINITY VALUE DELETED.
81	107	407	SAMPLING BOTTLE MALFUNCTION; THEREFORE, NO BOTTLE SALINITY.
81	112	867	NO BOTTLE SALINITY BECAUSE OF LACK OF WATER.
83	107	348	NO BOTTLE SALINITY BECAUSE OF LACK OF WATER.
86	104	115	BOTTLE SALINITY DELETED DID NOT AGREE WITH CTD DATA OR STATION PROFILE.
92	123	3633	HIGH BOTTLE SALINITY VALUE DELETED, APPEARS TO HAVE BEEN DRAWING ERROR.
99	219	2964	BOTTLE SALINITY DELETED, APPEARS TO HAVE BEEN DRAWING ERROR.
100	122	4216	BOTTLE SALINITY NOT DRAWN AS PER SAMPLING SCHEDULE.
101	123	4681	HIGH BOTTLE SALINITY VALUE DELETED.
104	312	502	SAMPLING BOTTLE MALFUNCTION; THEREFORE, NO BOTTLE SALINITY.
104	332	741	SAMPLING BOTTLE MALFUNCTION; THEREFORE, NO BOTTLE SALINITY.
104	334	1203	SAMPLING BOTTLE MALFUNCTION; THEREFORE, NO BOTTLE SALINITY.
104	338	1709	SAMPLING BOTTLE MALFUNCTION; THEREFORE, NO BOTTLE SALINITY.
105	115	978	BOTTLE SALINITY NOT DRAWN AS PER SAMPLING SCHEDULE.
106	107	370	BOTTLE SALINITY NOT DRAWN AS PER SAMPLING SCHEDULE.
120	123	5066	SAMPLING BOTTLE MALFUNCTION; THEREFORE, NO BOTTLE SALINITY.
132	108	1	BOTTLE SALINITY NOT DRAWN AS PER SAMPLING SCHEDULE.
132	120	680	BOTTLE SALINITY NOT DRAWN AS PER SAMPLING SCHEDULE.



**QUESTIONABLE DATA AS DETERMINED BY PACODF**

**STATION SAMPLE DEPTH  
NUMBER**

66	144	2984 SILICATE LOW AS COMPARED WITH ADJACENT STATIONS; HOWEVER, COULD NOT FIND ANY ANALYTICAL REASON FOR DELETION.
67	291	5022 POOR SALINITY AGREEMENT BETWEEN GERARD AND NISKIN PIGGYBACK. SUSPECT GERARD SALINITY.
73	495	5945 POOR SALINITY AGREEMENT BETWEEN GERARD AND NISKIN PIGGYBACK. SUSPECT GERARD SALINITY.
73	495	5945 TEMPERATURE IS QUESTIONABLE.
73	449	5945 TEMPERATURE IS QUESTIONABLE.
75	195	5890 POOR SALINITY AGREEMENT BETWEEN GERARD AND NISKIN PIGGYBACK. SUSPECT GERARD SALINITY.
80	189	3423 SALINITY VALUE IS HIGH. THERE MAY BE A CONTAMINATION PROBLEM ON THESE GERARD SAMPLES.
80	195	5126 SALINITY VALUE IS HIGH. THERE MAY BE A CONTAMINATION PROBLEM ON THESE GERARD SAMPLES.
81	107	407 BOTTLE MAY HAVE LEAKED; THEREFORE, ALL SAMPLES ARE CONSIDERED QUESTIONABLE.
87	223	4936 PHOSPHATE HIGH AND NITRATE LOW AS COMPARED WITH STATION PROFILE; HOWEVER, COULD NOT FIND ANY ANALYTICAL REASON FOR DELETION.
104	137	5438 SALINITY HIGH AS COMPARED WITH STATION PROFILE; HOWEVER, COULD NOT FIND ANY ANALYTICAL REASON FOR DELETION.
117	118	1261 SILICATE HIGH AS COMPARED WITH STATION PROFILE; HOWEVER, COULD NOT FIND ANY ANALYTICAL REASON FOR DELETION.



USER NAME <b>WARNER</b>	PHONE # <b>673-5643</b>	ORG/TASK #	DATE SUBMITTED <b>1/8</b>	DATE DUE	BIN # <b>03</b>
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EQUIPMENT TO BE USED AND FUNCTION TO BE PERFORMED

*Make W tape + SCAN*

INPUT MEDIUM PAPER CARD DISK <b>TAPE</b> DISKETTE OTHER(SPECIFY)	OUTPUT MEDIUM CARD DISK <b>PRINT</b> <b>TAPE</b> PLOT 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 FILE
<b>A00307</b>		<b>9</b>	<b>800</b>	<b>0</b>	<b>NL</b>	<b>FB</b>	<b>80</b>	<b>3200</b>	<b>2</b>
SECTOR SIZE	EXCHANGE TYPE	CODE: <b>ASCII</b> 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 FILE
SECTOR SIZE	EXCHANGE TYPE	CODE: <b>ASCII</b> 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 FILE
<b>W13399</b>		<b>9</b>	<b>800</b>	<b>0</b>	<b>SL</b>	<b>FB</b>	<b>80</b>	<b>3200</b>	<b>1</b>
SECTOR SIZE	EXCHANGE TYPE	CODE: <b>ASCII</b> EBCDIC BCD SDF OTHER(SPECIFY)				DATA SET NAME			PURGE DATE

SPECIAL INSTRUCTIONS

ESTIMATED  
EXECUTION  
TIME

31 USE ONLY

IS #	DATE JOB COMPLETED	START TIME	END TIME	PRIORITY	DEVICES USED, NUMBER OF TAPE MOUNTS, LINES PRINTED, DISKETTES USED, CARDS PUNCHED, CARDS KEYVERIFIED
<b>87010901</b>	<b>01/09/87</b>	<b>0846</b>		<b>C</b>	<b>COMPLETED by FL</b>



ENTER NAME <b>WARNER</b>	PHONE # <b>673-5643</b>	ORG/TASK #	DATE SUBMITTED <b>1/12/87</b>	DATE DUE	BIN <b>03</b>
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INSTRUMENT TO BE USED AND FUNCTION TO BE PERFORMED

**8600292**

PLS. SCAN AS EBCDIC (per FJM) & if okay Copy to W Tape.  
Also scan W tape

INPUT MEDIUM PAPER CARD DISK <b>TAPE</b> DISKETTE OTHER(SPECIFY)	OUTPUT MEDIUM CARD DISK <b>PRINT</b> <b>TAPE</b> PLOT 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 FIL
INPUT	<b>A00307</b>		<b>9</b>	<b>800</b>	<b>0</b>	<b>NL</b>	<b>FB</b>	<b>80</b>	<b>3200</b>	<b>2</b>
	SECTOR SIZE	EXCHANGE TYPE	CODE: ASCII <b>EBCDIC</b> BCD SDF. OTHER(SPECIFY)				DATA SET NAME			PUR DAT
	TAPE #/ DISKETTE	SLOT #	TRK	DENSITY	PARITY	LABEL TYPE	RECORD TYPE	RECORD LENGTH	MAX. BLOCK SIZE	# OF FIL
	SECTOR SIZE	EXCHANGE TYPE	CODE: ASCII EBCDIC BCD SDF OTHER(SPECIFY)				DATA SET NAME			PUR DAT
INPUT	<b>W13399</b>		<b>9</b>	<b>800</b>	<b>0</b>	<b>SL</b>	<b>FB</b>	<b>80</b>	<b>3200</b>	<b>1</b>
	SECTOR SIZE	EXCHANGE TYPE	CODE: <b>ASCII</b> EBCDIC BCD SDF OTHER(SPECIFY)				DATA SET NAME			PUR DAT
	<b>INWDEX 8600292-01</b>									

SPECIAL INSTRUCTIONS

ESTIMATED  
EXECUTION  
TIME

31 USE ONLY

#	DATE JOB COMPLETED	START TIME	END TIME	PRIORITY	DEVICES USED, NUMBER OF TAPE MOUNTS, LINES PRINTED, DISKETTES USED, CARDS PUNCHED, CARDS KEYVERIFIED
<b>87010901</b>	<b>01/13/87</b>	<b>0845</b>	<b>0800</b>	<b>C</b>	<b>COMPLETED by FL</b>



NAME <b>WARNER</b>	PHONE # <b>673-5643</b>	ORG/TASK #	DATE SUBMITTED <b>1/12/87</b>	DATE DUE	BIR <b>03</b>
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INSTRUMENT TO BE USED AND FUNCTION TO BE PERFORMED

8600292

Pls. SCAN AS EBCDIC (per FJM) & if okay Copy to W Tape.

Also, scan W tape

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

TAPE/DISKETTE INFORMATION

TAPE #/ DISKETTE	SLOT #	TRK	DENSITY	PARITY	LABEL TYPE	RECORD TYPE	RECORD LENGTH	MAX. BLOCK SIZE	# OF FILES
<b>A00307</b>		<b>9</b>	<b>800</b>	<b>0</b>	<b>NL</b>	<b>FB</b>	<b>80</b>	<b>3200</b>	<b>1</b>
SECTOR SIZE	EXCHANGE TYPE	CODE: ASCII <b>EBCDIC</b> BCD SDF OTHER(SPECIFY)				DATA SET NAME			PUR DAT
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			PUR DAT
TAPE #/ DISKETTE	SLOT #	TRK	DENSITY	PARITY	LABEL TYPE	RECORD TYPE	RECORD LENGTH	MAX. BLOCK SIZE	# OF FILES
<b>W13399</b>		<b>9</b>	<b>800</b>	<b>0</b>	<b>SL</b>	<b>FB</b>	<b>80</b>	<b>3200</b>	<b>1</b>
SECTOR SIZE	EXCHANGE TYPE	CODE: <b>ASCII</b> EBCDIC BCD SDF OTHER(SPECIFY)				DATA SET NAME <b>INDEX 8600292-01</b>			PUR DAT

SPECIAL INSTRUCTIONS

ESTIMATED  
EXECUTION  
TIME

1. USE ONLY

#	DATE JOB COMPLETED	START TIME	END TIME	PRIORITY	DEVICES USED, NUMBER OF TAPE MOUNTS, LINES PRINTED, DISKETTES USED, CARDS PUNCHED, CARDS KEYVERIFIED
<b>870102</b>	<b>01/13/87</b>	<b>0845</b>	<b>0800</b>	<b>C</b>	<b>COMPLETED BY FL</b>

REMARKS



Password:

accNo	fleA	refNo	proj	inst	ship	startDate	cruise	catId
-----	-----	-----	-----	-----	-----	-----	-----	-----
8600292	C100	313187	0122	3101	316N	1982/12/02	235	165399
8600292	C100	313188	0122	3101	316N	1982/12/31	235	165400

(2 rows affected)



Password:

accNo	fileA	refNo	ship	staCnt	recCnt	startDate	endDate
-----	----	-----	----	-----	-----	-----	-----
8600292	C100	313187	316N	32	50	82/12/02	82/12/18
8600292	C100	313188	316N	78	134	82/12/31	83/02/18

(2 rows affected)