

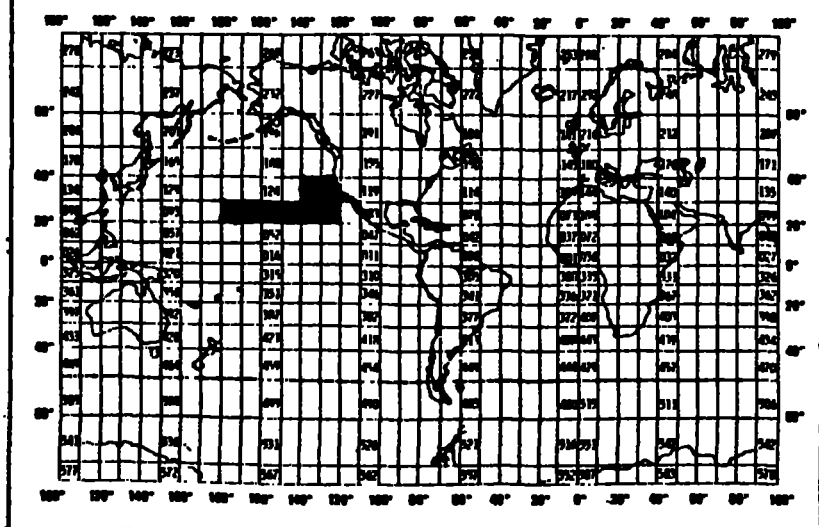
8700228
313186 C100

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:
TRANS-PACIFIC SECTION 24N
3. CRUISE NUMBER USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT:
270
4. PLATFORM NAME:
THOMAS G. THOMPSON
5. PLATFORM TYPE:
Research Vessel
6. PLATFORM AND OPERATOR NATIONALITY:
PLATFORM: U.S.A.
OPERATOR: U.S.A.
7. DATES: MO/DA/YR
FROM: 03/29/85
TO: 06/04/85
8. RELEASE DATE IF DATA PROPRIETARY:
29 October 1987
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) 534-4426 (619) 534-1904
or
Dr. James Swift Dr. Dean Roemmich
Scripps Institution of Oceanography
University of California, San Diego
La Jolla, CA 92093
Mail code A-014 Mail code A-030
(619) 534-4425 (619) 534-2307

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

GENERAL AREA



****B. SCIENTIFIC CONTENT
NAME OF DATA REPORTING UNITS
FIELD 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 as noted in documentation	N. A.	N. A.
SALINITY	PRACTICAL SALINITY UNITS	Niskin Bottles	Duplicate measurements by GUILDLINE Model 8400 laboratory salinometer	PSS-78
		Neil Brown Mark III CTD as noted in documentation	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 Bernhardt & Wilhelm (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 - 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 records followed by a data record
for each level
EOF at end of leg

3. ATTRIBUTES AS EXPRESSED IN FORTRAN

4. LABEL

SCRIPPS INSTITUTION OF OCEANOGRAPHY

PHYSICAL & CHEMICAL OCEANOGRAPHIC

DATA FACILITY TAPE #31 (1984 SD FORMAT)

ASCII;1600BPI NRZI;9-TRACK;PARITY ODD;

FILES-3;BLOCK-3200

PROJECT: TRANS-PACIFIC SECTION 24N

DATE: 28 October 1986

LOGICAL
RECORD LENGTH

File 1 = Leg 1 Stations 1 - 198	80
File 2 = Leg 2 Stations 199 - 408	80
File 3 = Documentation	160

MASTER RECORD 1:

START FORMAT 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, 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 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 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 (00-21)
27	I2	WATER COLOR FOREL-ULE SCALE (00-21)
29	I2	WATER TRANSPARENCY SECCHI DEPTH (WHOLE METERS)
31	I2	WAVE DIRECTION - WHO CODE 0885
33	A1	WAVE HEIGHT - WHO CODE 1555
** 34	I1	SEA STATE
** 35	A2	WIND FORCE
** 37	I1	FILE UPDATE CODE
38	A1	WAVE PERIOD - WHO CODE 3155
39	I2	WIND DIRECTION - WHO 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 WHO CODE 4501)
60	I1	CLOUD TYPE - WHO CODE 0500
61	I1	CLOUD AMOUNT - WHO 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 *	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*	

STS/Oceanographic Data Facility A-014

10 June 1987

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

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

SUBJECT: TRANS-PACIFIC SECTION 24N bottle data submission

Enclosed is the TRANS-PACIFIC SECTION 24N bottle data!tape in the 1984 SD format with documentation.

The funding was by NSF, Division of Ocean Sciences, grant # OCE 83-17389 and the Program Manager was Dr. Peter Hacker.

Please note that this data should not be releases until 29 October 1987.

kms

Enclosures: TRANS-PACIFIC SECTION 24N SD Tape #31 with documentation
cc: Dr. James Swift
Dr. Dean Roemmich
David Wirth

199/6-18-87

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

A. (1) Magnetic tape containing: TRANS-PACIFIC SECTION 24N
(9-Track; ASCII; 1600 bpi; BOTTLE DATA. NSF grant
3 Files; Block = 3200) # OCE 83-17389

Ship: Thomas Thompson
period: Mar 29, '85 - June 4, '85
obs: Leg 1 = 1-198
Leg 2 = 199-408

B. DDF (facsimile)

C. Auxiliary information.

NOTE: The submitter requests that data are NOT released to
the public before NOVEMBER 1987.

Please, provide the assigned NODC referenc numbers to
SIO, PACODF, La Jolla CA 92093, ATTN. K. SANBORN

cc: K. Sanborn, SIO, PACODF

A00528

8700218

FORWARDED BY (Signature)

TITLE

DATE FORWARDED

Liaison Officer

6/15/87

RECEIVED BY (Signature)

TITLE

DATE RE

INVENTORY

Record 2666 on screen
170294DATA ENTRY INFORMATION SYSTEM
(DATASET INVENTORY)

FJM

OF ENTRY: 11/19/87

REFERENCE NUMBER: 313186 ACCESSION NUMBER: 8700228
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): 31TT
PLATFORM TYPE: 9 - Ship DINDB CODE 09ORIGINATORS FILE ID: ORIGINATORS CRUISE ID: 270
CRUISE START DATE: 03/29/85 CRUISE END DATE: 06/04/85 Press PgDn
PROJECT CODE: 0128 DATA USE CODE (DUC): 3 to continue
F2ENTER F3VIEW F4EXIT F5FORM CLR F6FLD CLR F7DELETE F8MODIFY F9REPORT F10MULTI

INVENTORY

VOLUME - NUMBER OF STATIONS: 408 NUMBER OF RECORDS: 6,850

If STA/REC counts are not appropriate then enter -

NUMBER: UNITS:
AVERAGE REC SIZE: 112 MBYTES: 0.767200

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

ACCESSION NO. 8700228 *Trans-Pacific
Bottle Data* FILETYPE _____

TRACK NO. _____

PROJECT IDENTIFICATION _____

STEP	DATE	INIT.	TAPE OR DISK DSN	NO. FILES	NO. RECL	BLK SIZE	NO. RECORD
ORIG. TAPE	07/22/87	CMT	AD0528	3	80	3200	
DUPLICATE TAPE	08/06/87	CMT	W10326	3	80	3200	
REFORMATTED TAPE							
REFORMATTED DISK	10/2/87	RPS	DNO DC* TRANSOUT.	1	112	224	6850
FIRST MULCHEK							
FINAL MULCHEK							
F075 OR F022							
DATA SET FINALIZED							

ERRORS REPORTED TO PRINCIPAL INVESTIGATOR:

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

COMMENTS (TRACKS DELETED, FIELDS DELETED, ETC.)

Password:

accNo	fileA	refNo	proj	inst	ship	startDate	cruise	catId
8700228	C100	313186	0128	3101	31TT	1985/03/30	270	171427

(1 row affected)

Password:

accNo	fileA	refNo	ship	staCnt	recCnt	startDate	endDate
-----	-----	-----	-----	-----	-----	-----	-----
8700228	C100	313186	31TT	408	79	85/03/30	85/06/03

(1 row affected)