RCVD: 4-AUG-76 | ACK'D | ACCESSION NUMBER | 76-1900

DATA DOCUMENTATION FORM

GIVEN TO B. NICOLLS

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

20 DEC 76

FORM APPROVED O.M.B. No. 41-R2651

NODC TAPE 2567

ATTN: FRANCIS MITCHELL

NL
80=LREEL
800=BLOCSIZE
1600 bpi.

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.

48 HYDRO CASTS PLUS

IDOE / CUEA

193 CASTS HIGH RESOLUTION CTD'S

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

SCHOOL OF OCEANOGRAPHY
OREGON STATE UNIVERSITY
CORVALLIS, OR 97331

2. EXPEDITION, PROJECT, OR PROGRAM DURING WHICH DATA WERE COLLECTED

JOINT I (1974)

3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT

JOINT I
[GS7401]

4. PLATFORM NAME(S)	5. PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.)	6. PLATFORM AND OPERATOR NATIONALITY(IES)		7. DATES	
		PLATFORM	OPERATOR	FROM: MO/DAY/YR	TO: MO/DAY/YR
R/V GILLISS	SHIP	R/V Gilliss	UNIV. OF WASHINGTON	FEB 9, 74	APR 23/74

8. ARE DATA PROPRIETARY?

[X] NO [ ] YES

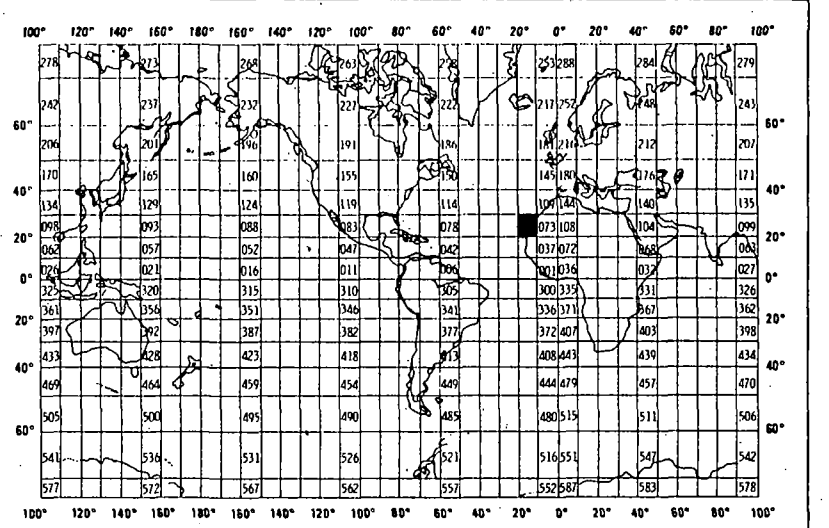
IF YES, WHEN CAN THEY BE RELEASED FOR GENERAL USE? YEAR ___ MONTH ___

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

GRAIT : GX-33-502
NSTADOL
GENERAL AREA

9. ARE DATA DECLARED NATIONAL PROGRAM (DNP)?
(I.E., SHOULD THEY BE INCLUDED IN WORLD DATA CENTERS HOLDINGS FOR INTERNATIONAL EXCHANGE?)

[ ] NO [X] YES [ ] PART (SPECIFY BELOW)



10. PERSON TO WHOM INQUIRIES CONCERNING DATA SHOULD BE ADDRESSED WITH TELEPHONE NUMBER (AND ADDRESS IF OTHER THAN IN ITEM-1)

DR. JANT HOVER

(503) 754-2206

B. SCIENTIFIC CONTENT

Include enough information concerning manner of observation, instrumentation, analysis, and data reduction routines to make them understandable to future users. Furnish the minimum documentation considered relevant to each data type. Documentation will be retained as a permanent part of the data and will be available to future users. Equivalent information already available may be substituted for this section of the form (i.e., publications, reports, and manuscripts describing observational and analytical methods). If you do not provide equivalent information by attachment, please complete the scientific content section in a manner similar to the one shown in the following example.

EXAMPLE (HYPOTHETICAL INFORMATION)

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	‰	Nansen bottles	Inductive salinometer (Hytech model 5510)	N/A (Not applicable)
		STD Bissett-Berman Model 9006	N/A	Values averaged over 5-meter intervals
Water color	Forel scale	Visual comparison with Forel bottles	N/A	N/A
Sediment size	ϕ units and percent by weight	Ewing corer	Standard sieves. Carbonate fraction removed by acid treatment	Same as "Sedimentary Rock Manual," Folk '65

(SPACE IS PROVIDED ON THE FOLLOWING TWO PAGES FOR THIS INFORMATION)

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
TEMPERATURE CONDUCTIVITY SALINITY	°C mhos/cm² ‰	GEODYNE CTD STD - BISSETT-BERMAN Model 9060	(see attached sheet)	values averaged over 1 meter intervals

HYDRO

(BEGINNING W/ RECORD # 1991 [COUNT]) ARE HYDRO CAST DATA, STATION #'s ARE 197, 198, 202-206, 217-223, 227-233 AND 235-261

TAPE CONTAINS FIVE (5) FILES W/ EOF AFTER EACH FILE. 1ST FOUR + PART OF FIFTH FILE ARE CTD CASTS. THE LAST 48 STATIONS (CASTS) IN FILE FIVE

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

Header Blocks – list is enclosed with each tape (there are 5 cruises)
Data Blocks – each cast is composed of 2 header cards and numberous lines of data. See p. 27-28 of enclosed data report for header card information. P. 28-29 gives this layout.

2. GIVE BRIEF DESCRIPTION OF FILE ORGANIZATION

HEADER block followed by as many data blocks AS needed.
(5 cruises)

3. ATTRIBUTES AS EXPRESSED IN ☐ PL-1 ☐ ALGOL ☐ COBOL ☐ FORTRAN ☐ ____________ LANGUAGE

4. RESPONSIBLE COMPUTER SPECIALIST:
NAME AND PHONE NUMBER William Gilbert (503) 754-2206
ADDRESS OREGON STATE U. CORVALLIS 97331

COMPLETE THIS SECTION IF DATA ARE ON MAGNETIC TAPE

5. RECORDING MODE
☒ BCD ☐ BINARY
☐ ASCII ☐ EBCDIC
☐ ____________

6. NUMBER OF TRACKS (CHANNELS)
☒ SEVEN
☐ NINE
☐ ____________

7. PARITY
☐ ODD
☒ EVEN

8. DENSITY
☐ 200 BPI ☐ 1600 BPI
☐ 556 BPI
☒ 800 BPI
☐ ____________

9. LENGTH OF INTER-RECORD GAP (IF KNOWN)
☒ 3/4 INCH
☐ ____________

10. END OF FILE MARK
☒ OCTAL 17
☐ ____________

11. PASTE-ON-PAPER LABEL DESCRIPTION (*INCLUDE ORIGINATOR NAME AND SOME LAY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER*)

OREGON STATE UNIVERSITY
School of OCEANography
BCD EVEN PARITY JOINT-I
7 TRACK 800 BPI (OFF AFRICA)

12. PHYSICAL BLOCK LENGTH IN BYTES
4000

13. LENGTH OF BYTES IN BITS
6

RECORD FORMAT DESCRIPTION

RECORD NAME _____

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN _____ (e.g., bits, bytes)	16. LENGTH NUMBER	16. LENGTH UNITS	17. ATTRIBUTES	18. USE AND MEANING
FIRST HEADER CARD					
STA. NO.	col 1-3				
	col 4				U => up cast; D = down
STA. DESIGNATOR (IF used)	col. 5-8				
Month	9-10				
Day	11-12				
time (Z)	13-16				
LATITUDE (N)	18-23				
LONGITUDE (W)	24-30				
Swell direction	31-33				
swell height (ft)	34-37				
swell period (sec)	38-41				
wind direction	42-45				
wind speed (knots)	41-42				
barometric pressure (mb)	43-46				4.6 : 1911.6 mb
wet bulb temperature	47-50				°C
dry bulb temperature	51-54				°C
WMO weather code	55-56				
cloud type	58				
second cloud type	60				
cloud amount	61				
visibility code	62				

RECORD FORMAT DESCRIPTION

RECORD NAME _____

14. FIELD NAME	15. POSITION FROM-1 MEASURED IN _____ (e.g., bits, bytes)	16. LENGTH NUMBER	16. LENGTH UNITS	17. ATTRIBUTES	18. USE AND MEANING

Second Header Card

	columns
bottom depth (m)	1-4
surface temperature ~1m	5-8
surface salinity ~1m	9-14
depth of following salinity (m)	15-18
⇒ salinity (‰)	19-24
CTD number	25-28
year (1974)	29-32

Data

depth (m)
temperature (°C)
conductivity (mmhos/cm)
salinity (‰)
sigma-T
(repeats)

RECORD FORMAT DESCRIPTION

RECORD NAME #1 DETAIL CARD CTD'S

14. FIELD NAME	15. POSITION FROM-1 MEASURED IN _____ (e.g., bits, bytes)	16. LENGTH NUMBER	16. LENGTH UNITS	17. ATTRIBUTES	18. USE AND MEANING
DEPTH (m.)	1-4	4		XXXX	Whole meters
BLANK	5	1			BLANK
TEMPERATURE	6-9	4		XX.XX 1	°C, degrees to HUNDRETHS
BLANK	10	1			BLANK
CONDUCTIVITY	11-14	4		X.XXX 1	m MHO'S to HUNDRETHS
BLANK	15	1			BLANK
SALINITY	16-19	4		XX.XX 1	°/oo to HUNDRETHS
BLANK	20	1			BLANK
σ_t	21-24	4		XX.XX 1	Density
BLANK	25-26	2			BLANK
DEPTH	27-30	4		XXXX	Whole meters
BLANK	31	1			BLANK
TEMPERATURE	32-35	4		XX.XX 1	°C, degrees, to HUNDRETHS
BLANK	36	1			BLANK
CONDUCTIVITY	37-40	4		X.XXX 1	m MHOS to HUNDRETHS
BLANK	41	1			BLANK
SALINITY	42-45	4		XX.XX 1	°/oo TO HUNDRETHS
BLANK	46	1			BLANK
σ_t	47-50	4		XX.XX 1	Density
BLANK	51-52	2			BLANK
DEPTH	53-56	4		XXXX	Whole meters
BLANK	57	1			BLANK
TEMPERATURE	58-61	4		XX.XX 1	°C, degrees to HUNDRETHS
BLANK	62	1			BLANK
CONDUCTIVITY	63-66	4		X.XXX 1	m MHO'S to HUNDRETHS
BLANK	67	1			BLANK
SALINITY	68-71	4		XX.XX 1	°/oo to HUNDRETHS
BLANK	72	1			BLANK
σ_t	73-76	4		XX.XX 1	Density

1 = decimal implied

RECORD FORMAT DESCRIPTION

RECORD NAME # 2 DETAIL CARD - HYDRO CASTS

14. FIELD NAME	15. POSITION FROM-1 MEASURED IN _____ (e.g., bits, bytes)	16. LENGTH NUMBER	16. LENGTH UNITS	17. ATTRIBUTES	18. USE AND MEANING
DEPTH	1-4	4		XXXX	Whole METERS
BLANK	5	1			BLANK
TEMPERATURE	6-9	4		XX.XX [1]	°C to HUNDRETHS
BLANK	10-13	4			BLANK
DUMMY	14	1			ZERO ENTERED
BLANK	15	1			BLANK
SALINITY	16-19	4		XX.XX [1]	°/oo TO HUNDRETHS
BLANK	20	1			BLANK
σ_t	21-24	4		XX.XX [1]	Density
BLANK	25-26	2			BLANK
DEPTH	27-30	4		XX.XX [1]	Whole meters
BLANK	31	1			BLANK
TEMPERATURE	32-35	4		XX.XX [1]	°C to HUNDRETHS
BLANK	36-39	4			BLANK
DUMMY	40	1			ZERO ENTERED
BLANK	41	1			BLANK
SALINITY	42-45	4		XX.XX [1]	°/oo to HUNDRETHS
BLANK	46	1			BLANK
σ_t	47-50	4		XX.XX [1]	Density
BLANK	51-52	2			BLANK
DEPTH	53-56	4		XXXX	Whole METERS
BLANK	57	1			BLANK
TEMPERATURE	58-61	4		XX.XX [1]	°C to HUNDRETHS
BLANK	62-65	4			BLANK
DUMMY	66	1			ZERO ENTERED
BLANK	67	1			BLANK
SALINITY	68-71	4		XX.XX [1]	°/oo to HUNDRETHS
BLANK	72	1			BLANK
σ_t	73-76	4		XX.XX [1]	Density
	1 =	IMPLIED	DECIMAL		

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 CALIBRATED
		YOUR ORGANIZATION (√)	OTHER ORGANIZATION (GIVE NAME)	AT FIXED INTERVALS (√)	BEFORE OR AFTER USE (√)	BEFORE AND AFTER USE (√)	ONLY AFTER REPAIR (√)	ONLY WHEN NEW (√)	(√)
GEODYNE CTD's		✓				✓			