NOAA FORM 24-5
(8-73)

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

TRANSMITTAL AND RECEIPT RECORD

(Please sign and return carbon copy acknowledging receipt)

TO:	REFER TO
Bill Chandler Skidaway Institute of Oceanography P.O. Box 13687 Savannah, GA 31406	SAI letter of June 13, 1978
	ATTENTION

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

☐ ORDINARY MAIL ☐ REGISTERED MAIL ☐ AIR MAIL ☐ CERTIFIED MAIL ☐ GOVERNMENT TRUCK ☐ BY HAND ☐ OTHER _____

Enclosed are the following processed data:

1 each - magnetic tape

2 each - machine listings

Tape Specifications: 7 TRK 800 b.p.i.
BCD
Record Length = 80
Blksize = 3200
Non-labeled
Two files

File #1 contains Ocean Serial Station, Cruise #31-7200 (33 Stations)

File #2 contains CTD Cruise #31-8537 (42 Stations)

NOTE: The June 13, 1978 letter from Dr. Paul Debrule SAI - Raleigh, stated that these data were XBT & CTD but are in fact ocean serial station & CTD data.

cc: Dr. Paul Debrule
SAI-Raleigh

Acc#
78-0578

Francis J. Mitchell

FORWARDED BY (Signature)	TITLE	DATE FORWARDED
Francis J. Mitchell	Physical Scientist	8/23/78
RECEIVED BY (Signature)	TITLE	DATE RECEIVED

RCVD 6/19/78

ACCESSION NUMBER 78-0578

DDF A:4:12

DATA DOCUMENTATION FORM

ORIGINATOR TAPE = SOATL

NOAA FORM 24-13 (4-72)

BLM/OCS-So. Atl.

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEANOGRAPHIC DATA CENTER
RECORDS SECTION
WASHINGTON, DC 20235

42 CTD
33 XBT

FORM APPROVED
O.M.B. No. 41-R2651
EXPIRES 1-81

317220 C100
318537 C108

(While you are not required to use this form, it is the most desirable mechanism for providing the required ancillary information enabling the NODC and users to obtain the greatest benefit from your data.)

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.

NODC TAPE COPY
3857
9 TRK 1600
LRECL=80 BLKSIZE=3200

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

SCIENCE APPLICATIONS, INC., 410 Oberlin Rd, Suite 350, Raleigh, NC, 27605

SKIDAWAY INSTITUTE OF OCEANOGRAPHY, University System of Georgia, P.O. Box 13687 Savannah, GA 31406

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

BLM South Atlantic OCS Physical Oceanography Program

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

Winter 1978 Hydrographic Cruise

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 PIERCE	Ship	USA	USA (Tracor Marine)	3/4/78	3/15/78

8. ARE DATA PROPRIETARY?

[X] NO [ ] YES

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

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

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

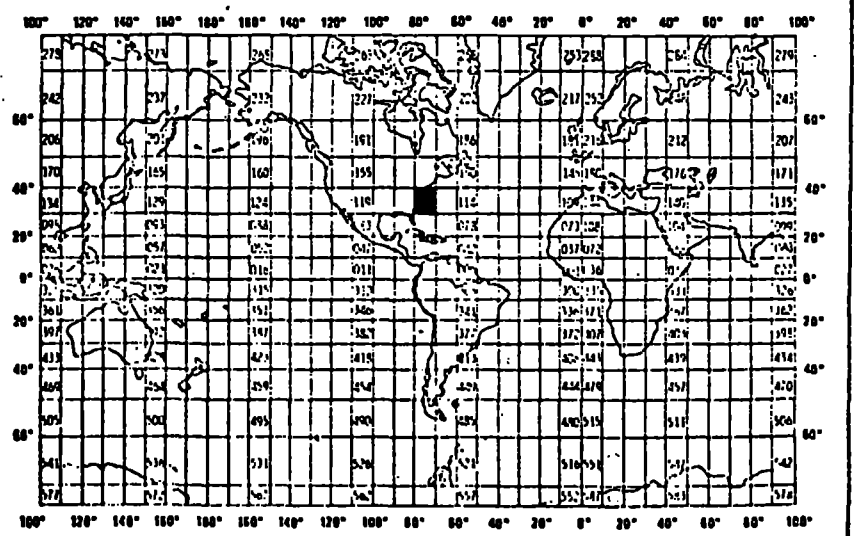
10. PERSON TO WHOM INQUIRIES CONCERNING DATA SHOULD BE ADDRESSED WITH TELEPHONE NUMBER (AND ADDRESS IF OTHER THAN IN ITEM-1)

Dr. Paul Debrule, Science Applications, Inc. 919/832-0392

Dr. L. Atkinson, Skidaway 912/356-2471

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

GENERAL AREA



NOAA FORM 24-13

GENERAL REMARKS

(NODC Submitted Data)

1. Silicate (SiO_3-Si) is reported to 10ths of a unit (e.g., 10.0 µg at/l).
2. All stations are in latitude north and longitude west.
3. Special Observations column 68 is used for:

   C=CTD, X=XBT

4. Surface Bottle samples were taken with XBTs.

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
Salinity	$^{o}/_{oo}$	Rosette Niskin Bottle	Plessey Model 6230N Lab Salinometer	N/A
		Plessey Model 9400 CTD	N/A	Values averaged over 1 meter intervals; offset for bottle sample calibration applied
Temperature	^{o}C	Reversing Thermometer on Rosette Niskin Bottle	N/A	N/A
		Plessey Model 9400 CTD	N/A	Offset for reversing thermometer calibration N/A because the sensor agrees within the accuracy of the reversing thermometer
O_2	ml/l	Rosette Niskin Bottle	Winkler Titration	N/A
PO_4	µmole/liter (to tenths)	Rosette Niskin Bottle	Method of Murphy and Riley (1962)	N/A
NO_3	µmole/liter (to tenths)	Rosette Niskin Bottle	Modification of cadmium column reduction technique by Gardner et al. (1976)	N/A
SiO_3	µmole/liter (to tenths)	Rosette Niskin Bottle	Method of Mullin and Riley (1955) as modified by Strickland and Parsons (1965)	N/A

C. DATA FORMAT

COMPLETE THIS SECTION FOR PUNCHED CARDS OR TAPE, MAGNETIC TAPE, OR DISC SUBMISSIONS.

. LIST RECORD TYPES CONTAINED IN THE TRANSMITTAL OF YOUR FILE
GIVE METHOD OF IDENTIFYING EACH RECORD TYPE

Fixed Length Records - 80 chars.

Fixed Length Blocks - 3200 chars.

Unlabeled

. GIVE BRIEF DESCRIPTION OF FILE ORGANIZATION

Above

. ATTRIBUTES AS EXPRESSED IN ☐ PL-1 ☐ ALGOL ☐ COBOL ☒ FORTRAN ☐ _____ LANGUAGE

. RESPONSIBLE COMPUTER SPECIALIST:
NAME AND PHONE NUMBER Bill Chandler (912)356-2459
ADDRESS Skidaway Institute of Oceanography, Savannah, GA 31410

COMPLETE THIS SECTION IF DATA ARE ON MAGNETIC TAPE

. RECORDING MODE
☐ BCD ☐ BINARY
☐ ASCII ☒ EBCDIC
☐ _____

. NUMBER OF TRACKS (CHANNELS)
☐ SEVEN
☒ NINE
☐ _____

. PARITY
☐ ODD
☒ EVEN

. 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
Standard for IBM ☒ Tape mark

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

12. PHYSICAL BLOCK LENGTH IN BYTES
3200 Bytes

13. LENGTH OF BYTES IN BITS
8 Bit Bytes

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.) Plessey, Inc. Sensors	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 (√)	
Temperature Model 4500 Serial #720	3/22/76							X	
Temperature Model 4500 Serial #737	8/24/76							X	
Pressure Model 4600 Serial #817	3/22/76							X	
Pressure Model 4600 Serial #837	8/29/77							X	
Conductivity Model 6500 Serial #615	3/22/76							X	
Conductivity Model 6500 Serial #660	8/26/77							X	

RECORD FORMAT DESCRIPTION

RECORD NAME Master Record: Info About A Station

14. FIELD NAME	15. POSITION FROM-1 MEASURED IN Bytes (e.g., bits, bytes)	16. LENGTH NUMBER	16. LENGTH UNITS Bytes	17. ATTRIBUTES Num = Numeric Alp = Alphabetic	18. USE AND MEANING Not given if inherent in name
Country	1	2		Num	
Ship	3	2		Alp	
Latitude	5	2		Num	Degrees
		3		Num (Divide by 10)	Minutes (Divide by 10), (F3.1)
Longitude	10	3		Num	Degrees
		3		Num	Minutes (Divide by 10), (F3.1)
Date	19	2		Num	Year
		2		Num	Month
		2		Num	Day
Time GMT	25	3		Num	Hour (Divide by 10), (F3.1)
Ship's Cruise No.	28	3		Alp	
Ship's Station No.	31	3		Num	
Depth to Bottom	34	4		Num	Meters
~~Max Sample~~ DUC	38	2		Num	2
	39	1			BLANK
Wave	48	1		Num	H/A
Wind Direction	50	2		Num	
Wind Speed	52	2		Num	
Bar. (MBS)	54	3		Num	
Dry Bulb Weather (WW or W)	63	2		Alp	
Special Observations	68	1		Alp	C=CTD; X=XBT; B=Bottle Cast
Consec. No.	78	1		Num	
CT	80	1		Num	Type of Record

RECORD FORMAT DESCRIPTION

RECORD NAME Data Record: Depths and Samples

14. FIELD NAME	15. POSITION FROM -1 MEASURED IN bytes (e.g., bits, bytes)	16. LENGTH NUMBER	16. LENGTH UNITS bytes	17. ATTRIBUTES Num = Numeric Alp = Alpha-betic	18. USE AND MEANING
Depth (M)	28	5		Num	(Divide by 10), (F5.1)
Temp (^{O}C)	33	4		Num	(Divide by 1000), (F4.2)
Sal. $^{O}/oo$	38	4		Num	(Divide by 1000), (F4.2)
O_2	51	3		Num	(Divide by 1000), (F3.1)
PO_4-P	54	3		Num	(Divide by 100), (F3.2)
NO_3-N	63	3		Num	(Divide by 10), (F3.1)
SiO_3-Si	66	3		Num	(Divide by 10), (F3.1).
C T	80	1		Num	Type of record

```
Password:
 accNo   fleA refNo  proj inst ship    startDate  cruise   catId
 ------- ---- ------ ---- ---- ------- ---------- -------- ----------
 7800578 C100 317220 0094 312S 31PE    1978/03/06 NULL         307490
 7800578 C100 318537 0094 312S 31PE    1978/03/06 NULL         307491

(2 rows affected)
```

```
Password:
 accNo   fleA refNo  ship staCnt recCnt startDate  endDate
 ------- ---- ------ ---- ------ ------ ---------- ----------
 7800578 C100 317220 31PE 33     33     78/03/06   78/03/12
 7800578 C100 318537 31PE 42     0      78/03/06   78/03/12

(2 rows affected)
```