ACCESSION NUMBER 8200199

DATA DOCUMENTATION FORM F022 TR8535

NOAA FORM 24-13
(4-77)

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

319020 C023

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

PB1344
PB1364

(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.

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

NOAA - ATLANTIC OCEANOGRAPHIC AND METEOROLOGICAL LAB
4301 RICKENBACKER CAUSEWAY
MIAMI FLORIDA 33149

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

F66E / INDEX

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

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
Researcher	Ship	R/V	NOAA	4/15/79	6/2/79

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?)

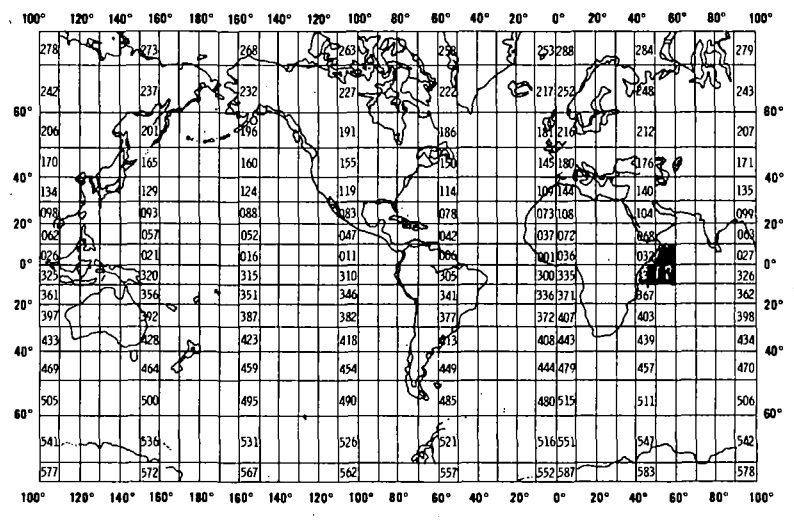
[ ] NO [X] YES [ ] PART *(SPECIFY BELOW)*

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

CAROL ROFFER
305 - 361-4352
FTS 350-1352

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

GENERAL AREA



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 S 510)	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
Depth Temperature Salinity Sigma-T	meters °C ‰ (PPT)	NEIL BROWN CSTD MARK III B Collects data through electronic sensors as well as bottle samples for calibration	Reversing Thermometers Used to Calibrate 'AUTO SAL' Salinometer determines conductivity/salinity of bottle samples.	Data averaged to 1 meter intervals. All data calibrated with bottle data as standards Salinity determined by temperature and conductivity

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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

C. DATA FORMAT

This information is requested only for data transmitted on punched cards or magnetic tape. Have one of your data processing specialists furnish answers either on the form or by attaching equivalent readily available documentation. Identify the nature and meaning of all entries and explain any codes used.

1. List the record types contained in your file transmittal (e.g., tape label record, master, detail, standard depth, etc.).

2. Describe briefly how your file is organized.

3-13. Self-explanatory.

14. Enter the field name as appropriate (e.g., header information, temperature, depth, salinity.

15. Enter starting position of the field.

16. Enter field length in number columns and unit of measurement (e.g., bit, byte, character, word) in unit column.

17. Enter attributes as expressed in the programming language specified in item 3 (e.g., "F 4.1," "BINARY FIXED (5.1)").

18. Describe field. If sort field, enter "SORT 1" for first, "SORT 2" for second, etc. If field is repeated, state number of times it is repeated.

C. DATA FORMAT NODC FORMAT 022

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

Three (3) record types
1. Text Record - Cruise Description
2. Master Record - Cast Description
3. Detail Record - Data 5 scans/record

Record type in Col. 10

2. GIVE BRIEF DESCRIPTION OF FILE ORGANIZATION

Files sorted by cast number, record type and sequence number.

* Data written with NTRAN$

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

4. RESPONSIBLE COMPUTER SPECIALIST:
NAME AND PHONE NUMBER CAROL ROFFER 305-361-4352 FTS 350-1352
ADDRESS 4301 Rickenbacker Causeway Miami Fl

COMPLETE THIS SECTION IF DATA ARE ON MAGNETIC TAPE

5. RECORDING MODE ☐ BCD ☐ BINARY ☒ ASCII ☐ EBCDIC ☐ 9-Bit

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)*

12. PHYSICAL BLOCK LENGTH IN BYTES
120 Bytes / Record

13. LENGTH OF BYTES IN BITS
9-Bits

RECORD FORMAT DESCRIPTION

Format 022

RECORD NAME TEXT RECORD (OPTIONAL)

FIELD NAME	15. POSITION FROM -1 MEASURED IN Bytes (e.g., bits, bytes)	16. LENGTH NUMBER	16. LENGTH UNITS	17. ATTRIBUTES	18. USE AND MEANING
File Type	1	3	Bytes	A3	Always '022'
File Identification	4	6	Bytes	A6	Unique # for cruise
Record Type	10	1	Bytes	A1	Always '1'
Cast Number	11	5	Bytes	A5	Analogous to NODC Station Number
Text	16	100	Bytes	100A1	Additional pertinent information
Sequence Number	116	5	Bytes	A5	Ascending numeric, used for sorting 1, 2, 3, etc
MASTER RECORD (REQUIRED THRU BYTES 59)					
File Type	1	3	Bytes	A3	Always '022'
File Identification	4	6	Bytes	A6	Unique # for Cruise
Record Type	10	1	Bytes	A1	Always '2'
Cast Number	11	5	Bytes	A5	Analogous to NODC Station Number
Latitude					
Degrees	16	2	Bytes	A2	
Minutes	18	2	Bytes	A2	
Hundredths of Minutes	20	2	Bytes	A2	
Hemisphere	22	1	Bytes	A1	'N' or 'S'
Longitude					
Degrees	23	3	Bytes	A3	
Minutes	26	2	Bytes	A2	
Hundredths of Minutes	28	2	Bytes	A2	
Hemisphere	30	1	Bytes	A1	'E' or 'W'
Cruise Identification	31	10	Bytes	10A1	Originator Cruise Identification
Number of Scans	41	5	Bytes	A5	Number of scans in a 'station' (There are five scans per record type '3')
Year	46	2	Bytes	A2	Last two digits of year
Month	48	2	Bytes	A2	1-12
Day	50	2	Bytes	A2	1-31 } GMT
Hour	52	2	Bytes	A2	0-23
Minutes	54	2	Bytes	A2	0-59
Depth Interval Indicator	56	1	Bytes	A1	'0' equals unequally spaced depth '1' equals equal spaced depths
Depth Interval	57	3	Bytes	A3	When above equals '1', the depth interval, to tenths of meters reported.
Barometric Pressure	60	5	Bytes	A5	Millibars to tenths

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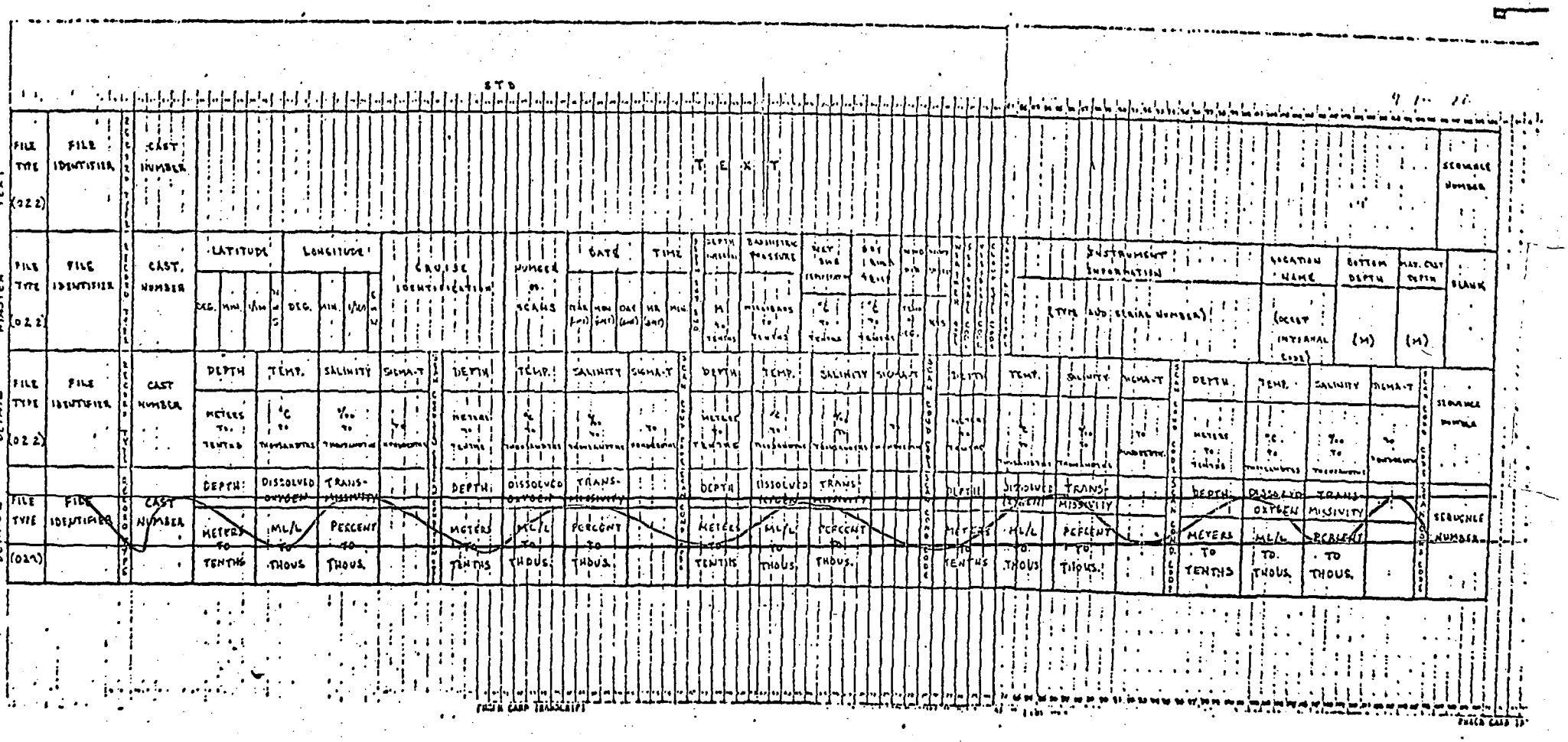
RECORD FORMAT DESCRIPTION

2-20-76

RECORD NAME MASTER RECORD CONTINUED

14. FIELD NAME	15. POSITION FROM-1 MEASURED IN Bytes (e.g., bits, bytes)	16. LENGTH NUMBER	16. LENGTH UNITS	17. ATTRIBUTES	18. USE AND MEANING
Wet bulb temperature	65	4	Bytes	A4	Degrees C to tenths
Dry bulb temperature	69	4	Bytes	A4	Degrees C to tenths
Wind direction	73	2	Bytes	A2	Tens of degrees WMO Codes 0855 and 0877
Wind speed	75	2	Bytes	A2	Whole knots
Weather Code	77	1	Bytes	A1	WMO 4501
Sea State Code	78	1	Bytes	A1	WMO 3700
Visibility Code	79	1	Bytes	A1	WMO 4300
Cloud Type Code	80	1	Bytes	A1	WMO 0500
Cloud Amount Code	81	1	Bytes	A1	WMO 2700
Instrument Information	82	20	Bytes	20A1	Type and Serial Number
Location Name	102	6	Bytes	A6	OCSEP Internal Location Code
Depth to bottom	108	5	Bytes	A5	To whole meters
Maximum depth of cast	113	4	Bytes	A4	To whole meters
Blank	117	4	Bytes	4X	
	DETAIL RECORD (REQUIRED)				
File Type	1	3	Bytes	A3	Always '022'
File Identification	4	6	Bytes	A6	Unique for cruise
Record Type	10	1	Bytes	A1	Always '3'
Cast Number	11	5	Bytes	A5	Analogous to NODC Station Number
Depth	16	5	Bytes	A5	Meters to tenths
Temperature	21	5	Bytes	A5	Degrees C to thousandths } SCAN
Salinity	26	5	Bytes	A5	P.P.T. to thousandths } DATA
Sigma-t	31	4	Bytes	A4	To hundredths
Scan Condition Code	35	1	Bytes	A1	Code describing how data arrived at
SCAN DATA	36	4(20)	Bytes	4(3A5,A4,A1)	Repetition of above
Sequence Number	116	5	Bytes	A5	Ascending numeric, used for sorting 1, 2, 3, Blanks are used when significance of field indicated exceeds what is measured.



NO DETAIL 2 RECORD IN THIS DATA

RECORD FORMAT DESCRIPTION

10-14-7

File Type 022 Codes

WMO Code 2700
WMO Code 4501
WMO Code 3700
WMO Code 0885/0877
WMO Code 0500
WMO Code 4300
STD Scan Condition Code

0 = Data Processed Prior To Coding
1 = From Raw Data
2 = Linear Interpol.
3 = Vertical Extrapol.
4 = Averaged
9 = Temp., Sal., & Sigma T Not Given

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 (√)	(√)
NEIL BROWN CTD MARK IIIB			NEIL BROWN, INC.	✓					
REVERSING THERMOMETERS				✓					
'AUTO-SAL' SALINOMETER		✓				✓			

NOAA FORM 24-13

Tapes P25501, P01304, P01344 9/10/82

Tape #	DISK DATA SET NAME	# RECORDS	
P25501	Tape unreadable (DATA CHK'S, unrecoverable error) ↙		BACK TO SAVESTER FOR A NEW TAPE 9/16/82
P01304	D1573*F022.P01304	9090	
P01344	D1573*F022.P01344	13,446	
		536	

The above tapes were created on Zenith; Copy tapes were BAD (that's the reason we could not read disks.)

The Krunch/20 program will read the F022 tapes from AOM.
Or the if tapes are copied to the mini. (we can use File converter or Krunch/20).

13446
9090
36

13367
9090
457

Error Correction Documentation Form

DDF B: 3.04

DATE:

TO:

FROM:

SUBJECT: Error Correction in Processing of Data Set - Accession # 8200199

1) File Type: F022

2) Project Ident.: FGGE/INDEX

3) Track Nos.: TR8535

319020 C022

I. Error Corrections as reported to Principal Investigator:

Error	Correction Completed (Check)

II. Additional error corrections:

Error	Correction Completed (Check)
1. Deleted all record type ones except for first station.	
2. Deleted zeros in col. 14 (station #) for stations 1-9 so that station # on record type 2. agreed with all record type threes.	

III. Processor Name: Mary K. Lewis

TAPE OR DISK ASSIGNMENT SHEET
(MRL) 11/6/78
(Rev. 11/80)

ACCESSION/TRACK NO.: 8200199/TR8535

TYPE OF TAPE	TAPE NUMBER	LABEL	LRECL	BLKSIZE	RECFM	REMARKS	# RECORDS
ORIGINATOR	P01304 P01344	NL NL	120 120	120 120			9090 13,446
DUPLICATE	D15773*F022. P01304 D15773*F022. P01344						22,536
REFORMATTED							
FIRST USER							
FINAL USER							
DISK FILE	DSN					REMARKS	# RECORDS
WORK DISK FILE							
EDITED DISK FILE							

Error Correction Documentation Form

DATE:

TO:

FROM:

SUBJECT: Error Correction in Processing of Data Set - Accession # 8200199

1) File Type: F022

2) Project Ident.: FGGE/INDEX

3) Track Nos.: TR8535

I. Error Corrections as reported to Principal Investigator:

Error	Correction Completed (Check)

II. Additional error corrections:

Error	Correction Completed (Check)
1. Deleted all record type ones except for first station.	
2. Deleted zeros in col. 14 (station #) for stations 1-9 so that station # on record type 2. agreed with all record type threes.	

III. Processor Name: Mary K. Lewis

TAPE OR DISK ASSIGNMENT SHEET
(MRL) 11/6/78
(Rev. 11/80)

ACCESSION/TRACK NO.: 8200199/TR8535

TYPE OF TAPE	TAPE NUMBER	LABEL	LRECL	BLKSIZE	RECFM	REMARKS	# RECORDS
ORIGINATOR	P01304 P01344	NL NL	120 120	120 120			9090 13,446
DUPLICATE	D15773*F022. P01304 D15773*F022. P01344						22,536
REFORMATTED							
FIRST USER							
FINAL USER							
DISK FILE	DSN					REMARKS	# RECORDS
WORK DISK FILE							
EDITED DISK FILE							

DATA SET ROUTE SHEET

ACCESSION/TRACK # 8200199 / TR8535

Step	Completion Date/Init.		Tape # or DSN	# of Files	BLKSIZE	LRECL	# RECORDS
ORIGINATOR TAPE #	P01304 P01344						
QUADI/SCAN TAPE # DUP	NONE (DISK DATASET)		D15773*F022.P01304 D15773*F022.P01344				9,090 13,446
DDF EVALUATION	9/29/82						
QUALITY REVIEW	9/29/82						
PRELIMINARY DATA SORT							
PRELIMINARY MULCHEK	9/29/82		D15773*F022.TR8535				22,536
FIRST USER TAPE #							
WORK DISK FILE	9/22/82		D15773*F022.TR8535				22,536
FINAL USER TAPE #							
FINAL MULCHEK	9/30/82	D15773*F022.TR8535					22380
EDITED DISK FILE							
DATA SET "FINALIZED"							

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
Chief, Data Processing Branch NODC - D751	ATTENTION Mr. D. Hamilton

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

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

1. AOML Tape #P25401, 112 CTD casts from the RESEARCHER FGGE S. Atlantic cruises in 1979, in FT022 format with DDF and sample listing (pass to Stone).

JB 8535

2. AOML Tapes #P01344 and P01304, 157 CTD casts from the RESEARCHER FGGE INDEX cruises of 1979 in FT022 format with DDF and sample listing (pass to Stone).

3. 282 XBT traces from the RESEARCHER EPOCS cruise of 1980. (Pass to Kuhn)

cc: Carol Roffer

FORWARDED BY (Signature) Tom Chlystek	TITLE Southeast Liaison Officer	DATE FORWARDED June 29, 81
RECEIVED BY (Signature) D. Hamilton	TITLE	DATE RECEIVED July 20, 81

NOAA FORM 24-5 (8-73)

```
Password:
 accNo   fleA refNo  proj inst ship    startDate  cruise   catId
 ------- ---- ------ ---- ---- ------- ---------- -------- ----------
 8200199 F022 TR8535 0101 3110 3175    1979/04/15 FGGE02       317753
 8200199 C022 319020 0101 3110 3175    1979/04/16 TR8535       317754

(2 rows affected)
```

```
Password:
 accNo   fleA refNo  ship staCnt recCnt startDate  endDate
 ------- ---- ------ ---- ------ ------ ---------- ----------
 8200199 F022 TR8535 3175 18     22379  79/04/15   79/06/02
 8200199 C022 319020 3175 18     154    79/04/16   79/06/02

(2 rows affected)
```