

DDF-B:1:21

DATA DOCUMENTATION FORM

TR3651

NOAA FORM 78-73 (4-77)

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

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

F022

(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.

319180  
C022

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 <b>AOML / PHOL 15 RICKENBACKER CAUSEWAY MIAMI, FLORIDA 33149</b>			
2. EXPEDITION, PROJECT, OR PROGRAM DURING WHICH DATA WERE COLLECTED		3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT	
4. PLATFORM NAME(S) <b>SEARCHER</b>	5. PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.) <b>SHIP</b>	6. PLATFORM AND OPERATOR NATIONALITY(IES)	
		PLATFORM <b>R/V</b>	OPERATOR <b>NOAA</b>
		7. DATES FROM: <b>MO, DAY, YR</b> TO: <b>MO, DAY, YR</b> <b>7/17/77 7/22/77</b>	
8. ARE DATA PROPRIETARY? <input type="checkbox"/> NO <input type="checkbox"/> 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.	
9. ARE DATA DECLARED NATIONAL PROGRAM (DNP)? (I.E., SHOULD THEY BE INCLUDED IN WORLD DATA CENTERS HOLDINGS FOR INTERNATIONAL EXCHANGE?) <input type="checkbox"/> NO <input type="checkbox"/> YES <input type="checkbox"/> PART (SPECIFY BELOW)		GENERAL AREA	
10. PERSON TO WHOM INQUIRIES CONCERNING DATA SHOULD BE ADDRESSED WITH TELEPHONE NUMBER (AND ADDRESS IF OTHER THAN IN ITEM-1) <b>DR. ROBERT MOLINARI 305-361-3361-X326</b>			

## 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 S510)	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)

IDENTIFIC 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	METERS	STD PLESSEY 9040	METER WHEEL	Electronic Data corrected to separate recorded water sample data. Gate Filters and gradient filters applied. Then data averaged over 3 successive values. Then interpolated every 2 meters
TEMPERATURE	°C		Reversing thermometer	
SALINITY	‰		Inductive Salinity Salinometer	

## 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

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

4 types of records (1) Header card for cruise  
(2) station card with position  
(3) meteorological data  
(4) STD OCEANOGRAPHIC DATA  
these are identified 1,2,3, and 4 in column 10

2. GIVE BRIEF DESCRIPTION OF FILE ORGANIZATION

EACH FILE STARTS WITH ONE TYPE 1 RECORD  
EACH STATION CONSISTS OF: ONE TYPE 2 RECORD  
ONE TYPE 3 RECORD  
ONE TYPE TERMINETER  
NUMEROUS TYPE 4 RECORDS  
ONE TYPE 4 TERMINETER  
EACH FILE ENDS WITH A TYPE 4 TERMINETER  
DATA CRUISE FILE ENDS WITH END OF FILE

3. ATTRIBUTES AS EXPRESSED IN  PL-1  ALGOL  COBOL  
 FORTRAN  \_\_\_\_\_ LANGUAGE

4. RESPONSIBLE COMPUTER SPECIALIST:

NAME AND PHONE NUMBER JOHN HAZELWORTH 305-361-3361-3  
ADDRESS ROML/PHOL, RICKENBACKER CAUSEWAY  
MIAMI, FLORIDA 33157

COMPLETE THIS SECTION IF DATA ARE ON MAGNETIC TAPE

<p>5. RECORDING MODE</p> <p><input checked="" type="checkbox"/> BCD <input type="checkbox"/> BINARY</p> <p><input type="checkbox"/> ASCII <input type="checkbox"/> EBCDIC</p> <p><input type="checkbox"/> _____</p>	<p>9. LENGTH OF INTER-RECORD GAP (IF KNOWN) <input checked="" type="checkbox"/> 3/4 INCH</p> <p><input type="checkbox"/> _____</p>
<p>6. NUMBER OF TRACKS (CHANNELS)</p> <p><input checked="" type="checkbox"/> SEVEN</p> <p><input type="checkbox"/> NINE</p> <p><input type="checkbox"/> _____</p>	<p>10. END OF FILE MARK</p> <p><input checked="" type="checkbox"/> OCTAL 17</p> <p><input type="checkbox"/> _____</p>
<p>7. PARITY</p> <p><input type="checkbox"/> ODD</p> <p><input checked="" type="checkbox"/> EVEN</p>	<p>11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME LAY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER)</p> <p style="font-size: 2em; text-align: center;">P01033 (NL)</p>
<p>8. DENSITY</p> <p><input type="checkbox"/> 200 BPI <input type="checkbox"/> 1600 BPI</p> <p><input type="checkbox"/> 556 BPI</p> <p><input checked="" type="checkbox"/> 800 BPI</p> <p><input type="checkbox"/> _____</p>	
<p>12. PHYSICAL BLOCK LENGTH IN BYTES</p> <p style="text-align: center; font-size: 2em;">84</p>	
<p>13. LENGTH OF BYTES IN BITS</p> <p style="text-align: center; font-size: 2em;">84</p>	

RECORD FORMAT DESCRIPTION

ORIGINATOR  
page/total  
1 3

RECORD NAME Water Physics and Chemistry (File Type "004")

14. FIELD NAME	15. POSITION FROM -1 MEASURED IN (e.g., bits, bytes)	16. LENGTH in bytes		17. ATTRIBUTES (FORTRAN)	18. USE AND MEANING
		NUMBER	UNITS		
<b>File Header Record</b>					
FILE TYPE	1	3		A3	"004" (constant)
FILE DATE	4	6		3A2	Yr., Mo., Dy. of file genera-
RECORD TYPE	10	1		A1	"1" (File Header Record) tion
VESSEL	11	11		11A1	(left aligned)
CRUISE	22	6		6A1	Originator's cruise identifi-
CRUISE DATES	28	17		5 (A2,A1),A2	XX/XX/XX-XX/XX/XX iers
SENIOR SCIENTIST	45	19		19A1	Beginning Month, Day, Year;
INVESTIGATOR	64	17		17A1	ending Month, Day, Year. (left aligned)
					Responsible Institution (left aligned)
<b>First Station Header Record</b>					
FILE TYPE	1	3		A3	"004" (constant)
FILE DATE	4	6		3A2	Yr., Mo., Dy. of file
RECORD TYPE	10	1		A1	generation
SEQUENCE	11	3		A3	"2" (First Station Header Record)
					Sequence of this record type
					within Station. (Leading
					zeros or leading blanks)
					blanks)
STATION	14	5		5A1	Station identifier.
LATITUDE	19	6		3A2	Degrees, Minutes, Seconds
LATHEM	25	1		A1	Hemisphere "N" or "S"
LONGITUDE	26	7		A3,2A2	Degrees, Minutes, Seconds
LONHEM	33	1		A1	Hemisphere "W" or "E"
TIME	34	3		A3	GMT in hours to tenths
DATE	37	8		2 (A2,A1),A2	XX/XX/XX Station date; Month,
					Day, Year
BOTTOM	45	5		A5	Water Depth, meters to tenths
NAVIGATION	50	2		A2	(See attached codes)
METHOD	52	1		A1	(See attached codes)
blank	53	28		28X	blank

RECORD FORMAT DESCRIPTION

RECORD NAME Water Physics and Chemistry (File Type "004)

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN <small>(e.g., bits, bytes)</small>	16. LENGTH in bytes		17. ATTRIBUTES  (FORTRAN)	18. USE AND MEANING
		NUMBER	UNITS		
<b>Second Station Header Record</b>					
FILE TYPE	1	3		A3	"004" (constant)
FILE DATE	4	6		3A2	Yr., Mo., Dy., of file generation
RECORD TYPE	10	1		A1	"3" (Second Station Header Record)
SEQUENCE	11	3		A3	Sequence of this record type within Station (leading zeros or leading blanks)
STATION	14	5		5A1	Station identifier
BAROMETER	19	3		A3	Pressure in millibars to tenths
DRY BULB	22	4		A4	Air temperature; degrees Celsius to tenths
WET BULB	26	4		A4	Air temperature; degrees Celsius to tenths
WIND DIRECTION	30	2		A2	WMO code 0877; tens of degrees
WIND SPEED	32	2		A2	Knots
SEA DIRECTION	34	2		A2	WMO code 0885; tens of degrees
SEA HEIGHT	36	1		A1	WMO code 1555
SWELL DIRECTION	37	2		A2	WMO code 0885
SWELL HEIGHT	39	1		A1	WMO code 1555
WEATHER	40	1		A1	WMO code 4501
CLOUD TYPE	41	1		A1	WMO code 0500
CLOUD COVER	42	1		A1	WMO code 2700
VISIBILITY	43	1		A1	WMO code 4300
TRANSPARENCY	44	4		A4	SECCHI Disk Depth; meters to tenths
TURBIDITY CODE	48	1		A1	(see attached codes)
blank	49	37		37X	blank



RECORD FORMAT DESCRIPTION

RECORD NAME Water Physics and Chemistry (File Type "004")

FIELD NAME	15. POSITION FROM -1 MEASURED IN (e.g., bits, bytes)	16. LENGTH in bytes		17. ATTRIBUTES (FORTRAN)	18. USE AND MEANING
		NUMBER	UNITS		
<b>Record Type "3" Terminator</b>					
IDENT	1	10		A3, 3A2, A1	Optional for those who must re-read their files in FORTRAN
SEQUENCE	11	3		A3	"998" (constant)
blank	14	67		67X	blank
<b>Data Record</b>					
FILE TYPE	1	3		A3	"004" (constant)
FILE DATE	4	6		3A2	Yr., Mo., Dy., of file generation
RECORD TYPE	10	1		A1	"4" (Data Record)
SEQUENCE	11	3		A3	Sequence of this record type within Station. (Leading zeros or leading blanks)
STATION	14	5		5A1	Station identifier
DEPTH	19	4		A4	Sample depth, meters to tenths
TEMPERATURE	23	5		A5	Water temp.; degrees Celsius to thousands
SALINITY	28	5		A5	Salinity; parts per thousand to thousands
SIGMA-T	33	4		A4	Sigma-t to hundredths
TRANSMISSIVITY	37	3		A3	Transmissivity; percent to tenths
PH	40	3		A3	pH to hundredths
EH	43	4		A4	Eh to hundredths
OXYGEN	47	4		A4	Dissolved; hundredths of ml/liter
AMMONIA	51	3		A3	Tenths of microgram (µg)-atoms/liter
NITRITE	54	3		A3	Hundredths of µg-atoms/liter
NITRATE	57	4		A4	Hundredths of µg-atoms/liter
SILICATE	61	4		A4	Hundredths of µg-atoms/liter
PHOSPHATE	65	3		A3	Inorganic; hundredths of µg-atoms/liter
SOLIDS	68	4		A4	Suspended solids in hundredths of mg./liter
TURBIDITY	72	4		A4	Turbidity; in hundredths of mg./liter
CHLOROPHYLL	76	5		A5	Chlorophyll; in hundredths of mg./meter <sup>3</sup>
<b>Record Type "4" Terminator</b>					
IDENT	1	10		A3, 3A2, A1	Optional; for those who must re-read their file Using FORTRAN
SEQUENCE	11	3		A3	Same as "Data Record"
blank	14	67		67X	"998"=end station. "999"=end file blank

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

*Reformatted tape*

*3- RECORD TYPES (1, 2, 3)  
(1). TEXT RECORD  
(2). HEADER RECORD  
(3). DETAIL RECORD.  
  
file type = 022*

2. GIVE BRIEF DESCRIPTION OF FILE ORGANIZATION

[Empty box for file organization description]

3. ATTRIBUTES AS EXPRESSED IN  PL-1  ALGOL  COBOL  
 FORTRAN  \_\_\_\_\_ LANGUAGE

4. RESPONSIBLE COMPUTER SPECIALIST:

NAME AND PHONE NUMBER \_\_\_\_\_

ADDRESS \_\_\_\_\_

COMPLETE THIS SECTION IF DATA ARE ON MAGNETIC TAPE

<p>5. RECORDING MODE</p> <input type="checkbox"/> BCD <input type="checkbox"/> BINARY <input type="checkbox"/> ASCII <input checked="" type="checkbox"/> EBCDIC <input type="checkbox"/> _____	<p>9. LENGTH OF INTER-RECORD GAP (IF KNOWN) <input type="checkbox"/> 3/4 INCH  <input type="checkbox"/> _____</p>
<p>6. NUMBER OF TRACKS (CHANNELS)</p> <input type="checkbox"/> SEVEN <input checked="" type="checkbox"/> NINE <input type="checkbox"/> _____	<p>10. END OF FILE MARK <input type="checkbox"/> OCTAL 17  <input type="checkbox"/> _____</p>
<p>7. PARITY</p> <input checked="" type="checkbox"/> ODD <input type="checkbox"/> EVEN	<p>11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME LAY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER)</p> <p style="font-size: 2em; text-align: center;"><i>007121 (SL)</i></p> <p style="text-align: center;"><i>DSN = AOML 022</i></p>
<p>8. DENSITY</p> <input type="checkbox"/> 200 BPI <input checked="" type="checkbox"/> 1600 BPI <input type="checkbox"/> 556 BPI <input type="checkbox"/> 800 BPI <input type="checkbox"/> _____	<p>12. PHYSICAL BLOCK LENGTH IN BYTES  <i>3600</i></p> <p>13. LENGTH OF BYTES IN BITS  <i>120</i></p>

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

*User tape*

2. GIVE BRIEF DESCRIPTION OF FILE ORGANIZATION

3. ATTRIBUTES AS EXPRESSED IN  PL-1  ALGOL  COBOL  
 FORTRAN  \_\_\_\_\_ LANGUAGE

4. RESPONSIBLE COMPUTER SPECIALIST:

NAME AND PHONE NUMBER D752-NOAA/EDIS/NADC-634-7505  
ADDRESS WASH DC 20235

COMPLETE THIS SECTION IF DATA ARE ON MAGNETIC TAPE

<p>5. RECORDING MODE</p> <p><input type="checkbox"/> BCD <input type="checkbox"/> BINARY</p> <p><input type="checkbox"/> ASCII <input checked="" type="checkbox"/> EBCDIC</p> <p><input type="checkbox"/> _____</p>	<p>9. LENGTH OF INTER-RECORD GAP (IF KNOWN) <input type="checkbox"/> 3/4 INCH</p> <p><input type="checkbox"/> _____</p>
<p>6. NUMBER OF TRACKS (CHANNELS)</p> <p><input type="checkbox"/> SEVEN</p> <p><input checked="" type="checkbox"/> NINE</p> <p><input type="checkbox"/> _____</p>	<p>10. END OF FILE MARK <input type="checkbox"/> OCTAL 17</p> <p><input type="checkbox"/> _____</p>
<p>7. PARITY</p> <p><input checked="" type="checkbox"/> ODD</p> <p><input type="checkbox"/> EVEN</p>	<p>11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME LAY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER)</p> <p><i>001880(S/L)</i></p> <p><i>DSN=TR3651</i></p>
<p>8. DENSITY</p> <p><input type="checkbox"/> 200 BPI <input checked="" type="checkbox"/> 1600 BPI</p> <p><input type="checkbox"/> 556 BPI</p> <p><input type="checkbox"/> 800 BPI</p> <p><input type="checkbox"/> _____</p>	<p>12. PHYSICAL BLOCK LENGTH IN BYTES</p> <p><i>4800</i></p> <p>13. LENGTH OF BYTES IN BITS</p> <p><i>120</i></p>

*Reformatted & user tapes*

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN <small>(e.g., bits, bytes)</small>	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
MASTER RECORD (REQUIRED THRU BYTES 59)					
File Type	1	3	Bytes	A3	Always '022'
File Identification	4	6	Bytes	A6	
Record Type	10	1	Bytes	I1	Always '2'
Cast Number	11	5	Bytes	A5	Analogous to NODC Station Num.
Latitude					
Degrees	16	2	Bytes	I2	
Minutes	18	2	Bytes	I2	
Hundredths of Minutes	20	2	Bytes	I2	
Hemisphere	22	1	Bytes	A1	'N' or 'S'
Longitude					
Degrees	23	3	Bytes	I3	
Minutes	26	2	Bytes	I2	
Hundredths of Minutes	28	2	Bytes	I2	
Hemisphere	30	1	Bytes	A1	'E' or 'W'
Cruise Identification	31	10	Bytes	10A1	Originator Cruise Identification
Number of Scans	41	5	Bytes	I5	Number of scans in a 'station' (There are five scans per record type '3')
Year	46	2	Bytes	I2	Last two digits of year } CM
Month	48	2	Bytes	I2	
Day	50	2	Bytes	I2	
Hour	52	2	Bytes	I2	
Minutes	54	2	Bytes	I2	
Depth Interval Indicator	56	1	Bytes	I1	'0' equals unequally spaced depth '1' equals equal spaced depth.
Depth Interval	57	3	Bytes	I3	When above equals '1', the depth interval, to tenths of meters reported.
Barometric pressure	60	5	Bytes	I5	Millibars to tenths
Wet bulb temperature	65	4	Bytes	I4	Degrees C to tenths
Dry bulb temperature	69	4	Bytes	I4	Degrees C to tenths
Wind direction	73	2	Bytes	I2	Tens of degrees WMO Codes 085 and 0877
Wind speed	75	2	Bytes	I2	Whole knots
Weather Code	77	1	Bytes	I1	WMO 4501
Sea State Code	78	1	Bytes	I1	WMO 3700
Visibility Code	79	1	Bytes	I1	WMO 4300
Cloud Type Code	80	1	Bytes	A1	WMO 0500
Cloud Amount Code	81	1	Bytes	I1	WMO 2700



# RECORD FORMAT DESCRIPTION

RECORD NAME \_\_\_\_\_

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

# RECORD FORMAT DESCRIPTION

RECORD NAME \_\_\_\_\_

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

# RECORD FORMAT DESCRIPTION

RECORD NAME \_\_\_\_\_

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





### 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 CALI- BRATED  (✓)
		YOUR ORGANIZATION (✓)	OTHER ORGANIZATION (GIVE NAME)	AT FIXED INTERVALS (✓)	BEFORE OR AFTER USE (✓)	BEFORE AND AFTER USE (✓)	ONLY AFTER REPAIR (✓)	ONLY WHEN NEW (✓)	
PLESSEY STD 9040	NA	✓			BEFORE CRUISE				

Error Correction Documentation Form

DATE: Jan 24, 1979

TO:

FROM: D.K. Palmer D781

SUBJECT: Error Correction in Processing of Data Set - Accession # 78-0876

- 1) File Type: 022
- 2) Project Ident.: AOML / PHOL
- 3) Track Nos.: TR3651

I. Error Corrections as reported to Principal Investigator:

<u>Error</u>	<u>Correction Completed (Check)</u>
File type	change 1/25/79
Barometric Pressure recorded to 3 places added <u>10</u> to cols 60-61 to increase field to 5 places.	added <u>10</u> to cols 60-61

II. Additional error corrections:

<u>Error</u>	<u>Correction Completed (Check)</u>
1 Scan codes missing Illegal numeric field (Scan code)	1 added value of '4' for scan codes.
2 STAT. NO. Changed without marker record	2 0 value deleted from col. 18. Added 0 to col. 13.
<del>Barometric pressure recorded to</del>	<del>3</del>

III. Processor Name: D. Lewis

24

022-3

#2 012635  
7509  
120/4800, F022

ANSE 000296  
7896  
(c4050)  
#1 U020119

TR 2971-2974, 2986-2990, 3031, 3080, 3102, 3308-3339,  
3317-3323, , 3570, 3651, 3942

59,912  
~~46,153~~

Accession No: 78-0876

022TR36511 1020RESEARCHER DTEC0107/17/77-07/22/77DR. ROBERT MOLINARIMOLINARI/AOML 1  
 ?????  
 STATION NUMBER HAS CHANGED WITHOUT A MASTER  
 \*\*\*\*\*  
 022TR36511 1021RESEARCHER DTEC0107/17/77-07/22/77DR. ROBERT MOLINARIMOLINARI/AOML 1  
 ?????  
 STATION NUMBER HAS CHANGED WITHOUT A MASTER  
 \*\*\*\*\*  
 022TR36511 1022RESEARCHER DTEC0107/17/77-07/22/77DR. ROBERT MOLINARIMOLINARI/AOML 1  
 ?????  
 STATION NUMBER HAS CHANGED WITHOUT A MASTER  
 \*\*\*\*\*  
 022TR36511 1023RESEARCHER DTEC0107/17/77-07/22/77DR. ROBERT MOLINARIMOLINARI/AOML 1  
 ?????  
 STATION NUMBER HAS CHANGED WITHOUT A MASTER  
 \*\*\*\*\*  
 022TR36511 1025RESEARCHER DTEC0107/17/77-07/22/77DR. ROBERT MOLINARIMOLINARI/AOML 1  
 ?????  
 STATION NUMBER HAS CHANGED WITHOUT A MASTER  
 \*\*\*\*\*  
 022TR36511 1026RESEARCHER DTEC0107/17/77-07/22/77DR. ROBERT MOLINARIMOLINARI/AOML 1  
 ?????  
 STATION NUMBER HAS CHANGED WITHOUT A MASTER  
 \*\*\*\*\*  
 022TR36511 1028RESEARCHER DTEC0107/17/77-07/22/77DR. ROBERT MOLINARIMOLINARI/AOML 1  
 ?????  
 STATION NUMBER HAS CHANGED WITHOUT A MASTER  
 \*\*\*\*\*  
 022TR36511 1029RESEARCHER DTEC0107/17/77-07/22/77DR. ROBERT MOLINARIMOLINARI/AOML 1  
 ?????  
 STATION NUMBER HAS CHANGED WITHOUT A MASTER  
 \*\*\*\*\*  
 022TR36511 1030RESEARCHER DTEC0107/17/77-07/22/77DR. ROBERT MOLINARIMOLINARI/AOML 1  
 ?????

STATION NUMBER HAS CHANGED WITHOUT A MASTER  
 THE FIELDS BELOW WERE CHECKED AS FOLLOWS(S=SIGN/B=BLANK/T=TAXONOMIC CODE/N=NUMERIC/M=MANDATORY NUMERIC

TYPE	REC	POS	LENGTH	NAME	RANGE LOW	TESTED HIGH	ACTUAL LOWEST	RANGE HIGHEST	MEAN	S. DEV	COUNT
C	2	30	1	LON HEM	W	W					
M	2	16	2	LAT DEG	20	80	23	29	27.94	2.23	20
M	2	18	2	LAT MIN	00	59	0	58	12.94	20.30	20
N	2	20	2	LAT MIN 1/100	00	99	15	81	45.89	19.99	20
C	2	22	1	LAT HEM	N	N					
M	2	23	3	LON DEG	000	179	82	88	86.54	2.36	20
M	2	26	2	LON MIN	00	59	0	59	39.14	25.48	20
V	2	28	2	LON MIN 1/100	00	99	3	91	39.79	22.22	20
N	2	41	5	NUM. OF SCANS	NO RANGE CHECKING		NO VALUES FOUND FOR THIS PARAMETER				
M	2	46	2	OBS YR	74	80	77	77	77.00	00	20
M	2	48	2	OBS MON	01	12	7	7	7.00	00	20
M	2	50	2	OBS DAY	01	31	13	23	19.04	3.00	20
M	2	52	2	OBS HR	00	23	0	23	11.69	6.39	20
N	2	54	2	OBS MIN	00	59	6	36	18.89	9.92	20
V	2	56	1	DEPTH INTERVAL INDIC	0	1	NO VALUES FOUND FOR THIS PARAMETER				
N	2	57	2	DEPTH INTVL.	00	99	NO VALUES FOUND FOR THIS PARAMETER				
N	2	60	4	BAROMETRIC PRESSURE	0944	1050	1015	1020	1017.64	4.67	20
N	2	65	4	WET-BULB TEMPERATURE	-300	0400	231	258	245.54	7.23	20
N	2	69	4	DRY-BULB TEMPERATURE	-300	0400	259	300	281.04	9.81	20
N	2	73	2	WIND DIRECTION	00	36	0	36	12.64	9.22	20
N	2	75	2	WIND SPEED	00	70	0	16	6.94	5.04	20

NO	RANGE	CHECKING	NO	VALUES	FOUND	FOR THIS	PARAMETER	NO
77		WEATHER	0		8	1.50	1.56	20
78		SEA STATE	NO RANGE		8			20
79		VISIBILITY	NO RANGE	7	8	7.79	56	20
81		CLOUD AMOUNT	NO RANGE	4	9	5.31	2.21	19
108		BOTTOM DEPTH	NO RANGE	4	9	5.31	2.21	19
16		DEPTH1	00000	11000	1014	1812	1412.39	20
20		DEPTH1 1/1000	0000	6000	0	1002	405.10	1425
36		DEPTH2	0	9	0	0	00	1425
40		DEPTH2 1/1000	0001	6000	2	1004	407.11	1425
56		DEPTH3	0	9	0	0	00	1425
60		DEPTH3 1/1000	0002	6000	4	1006	409.14	1425
76		DEPTH4	0	9	0	0	00	1425
80		DEPTH4 1/1000	0003	6000	6	1008	411.16	1425
96		DEPTH5	0	9	0	0	00	1425
100		DEPTH5 1/1000	0004	6000	8	1010	412.74	1424
21		TEMPER1	0	9	0	0	00	1425
25		TEMPER1 1/1000	-200	3000	484	2969	1278.78	1425
41		TEMPER2	0	9	0	9	4.73	1425
45		TEMPER2 1/1000	-200	3000	483	2957	1272.73	1425
61		TEMPER3	0	9	0	9	4.30	1425
65		TEMPER3 1/1000	-200	3000	482	2950	1266.12	1425
81		TEMPER4	0	9	0	9	4.61	1425
85		TEMPER4 1/1000	-200	3000	482	2954	1260.07	1425
101		TEMPER5	0	9	0	9	4.55	1425
105		TEMPER5 1/1000	-200	3000	482	2954	1254.63	1424
26		SALINITY1	0	9	0	9	4.47	1424
46		SALINITY2	1000	3950	3482	3687	3548.54	1425
66		SALINITY3	1000	3950	3482	3688	3548.39	1425
86		SALINITY4	1000	3950	3482	3687	3548.09	1425
106		SALINITY5	1000	3950	3482	3687	3547.88	1425
31		SIGMA-T1	1000	3950	3482	3687	3547.66	1424
51		SIGMA-T2	0315	3000	2240	2766	2658.70	1425
71		SIGMA-T3	0315	3000	2241	2766	2660.04	1425
91		SIGMA-T4	0315	3000	2242	2767	2661.47	1425
111		SIGMA-T5	0315	3000	2241	2767	2662.76	1425
35		SCANCON1	0315	3000	2242	2767	2663.94	1424
55		SCANCON2	NO RANGE	CHECKING	4	4	4.00	1425
75		SCANCON3	NO RANGE	CHECKING	4	4	4.00	1425
95		SCANCON4	NO RANGE	CHECKING	4	4	4.00	1425
115		SCANCON5	NO RANGE	CHECKING	4	4	4.00	1425
16		DEPTH6	NO RANGE	CHECKING	NO VALUES	FOUND	FOR THIS	PARAMETER
36		DEPTH7	NO RANGE	CHECKING	NO VALUES	FOUND	FOR THIS	PARAMETER
56		DEPTH8	NO RANGE	CHECKING	NO VALUES	FOUND	FOR THIS	PARAMETER
76		DEPTH9	NO RANGE	CHECKING	NO VALUES	FOUND	FOR THIS	PARAMETER
96		DEPTH10	NO RANGE	CHECKING	NO VALUES	FOUND	FOR THIS	PARAMETER
21		DISSOLVOXYGEN1	NO RANGE	CHECKING	NO VALUES	FOUND	FOR THIS	PARAMETER
41		DISSOLVOXYGEN2	NO RANGE	CHECKING	NO VALUES	FOUND	FOR THIS	PARAMETER
61		DISSOLVOXYGEN3	NO RANGE	CHECKING	NO VALUES	FOUND	FOR THIS	PARAMETER
81		DISSOLVOXYGEN4	NO RANGE	CHECKING	NO VALUES	FOUND	FOR THIS	PARAMETER
101		DISSOLVOXYGEN5	NO RANGE	CHECKING	NO VALUES	FOUND	FOR THIS	PARAMETER
35		SCANCON6	NO RANGE	CHECKING	NO VALUES	FOUND	FOR THIS	PARAMETER
55		SCANCON7	NO RANGE	CHECKING	NO VALUES	FOUND	FOR THIS	PARAMETER
74		SCANCON8	NO RANGE	CHECKING	NO VALUES	FOUND	FOR THIS	PARAMETER
95		SCANCON9	NO RANGE	CHECKING	NO VALUES	FOUND	FOR THIS	PARAMETER
115		SCANCON10	NO RANGE	CHECKING	NO VALUES	FOUND	FOR THIS	PARAMETER
26		TRANSMISSIVITY1	00000	99000	NO VALUES	FOUND	FOR THIS	PARAMETER
31								0
46		TRANSMISSIVITY2	00000	99000	NO VALUES	FOUND	FOR THIS	PARAMETER
51								C
66		TRANSMISSIVITY3	00000	99000	NO VALUES	FOUND	FOR THIS	PARAMETER

B 4 71 4  
N 4 86 5  
B 4 91 4  
N 4 106 5  
B 4 111 4

TRANSMISSIVITY4

00000 99000

NO VALUES FOUND FOR THIS PARAMETER

C

TRANSMISSIVITY5

00000 99000

NO VALUES FOUND FOR THIS PARAMETER

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RECORDS READ ; 1465

Password:

accNo	fleA	refNo	proj	inst	ship	startDate	cruise	catId
7800876	F022	TR3651	0095	311A	3175	1977/07/13	NULL	308423
7800876	C022	319180	0095	311A	3175	1977/07/13	TR3651	308424

(2 rows affected)



Password:

accNo	fileA	refNo	ship	staCnt	recCnt	startDate	endDate
7800876	F022	TR3651	3175	20	1465	77/07/13	77/07/23
7800876	C022	319180	3175	20	37	77/07/13	77/07/23

(2 rows affected)