

Per 2805 - (46)

ACCESSION  
NUMBER

73-1004-

TR0026  
C100

DDF A:1:15

# DATA DOCUMENTATION FORM

NOAA FORM 24-13  
(72)

U.S. DEPARTMENT OF COMMERCE  
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION  
NATIONAL OCEANOGRAPHIC DATA CENTER  
RECORDS SECTION  
ROCKVILLE, MARYLAND 20852

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

F015

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			
National Ocean Survey (Oceanographic Division) NOAA/ Department of Commerce 6001 Executive Blvd. Rockville, MD			
2. EXPEDITION, PROJECT, OR PROGRAM DURING WHICH DATA WERE COLLECTED		3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT	
OPR - 501 - FE - 71 (1971 Boston Harbor Current Survey by NOAA Ship Ferrel)		OPR - 501 - FE - 71	
4. PLATFORM NAME(S)	5. PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.)	6. PLATFORM AND OPERATOR NATIONALITY(IES)	7. DATES
Ferrel	Surface Buoys	U.S.A.	U.S.A.
		FROM: MO/DAY/YR	TO: MO/DAY/YR
		5/10/71	10/26/71
8. ARE DATA PROPRIETARY?		11. PLEASE DARKEN ALL MARSDEN SQUARES IN WHICH ANY DATA CONTAINED IN YOUR SUBMISSION WERE COLLECTED.	
<input checked="" type="checkbox"/> NO <input type="checkbox"/> YES			
IF YES, WHEN CAN THEY BE RELEASED FOR GENERAL USE? YEAR _____ MONTH _____		GENERAL AREA	
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)			
10. PERSON TO WHOM INQUIRIES CONCERNING DATA SHOULD BE ADDRESSED WITH TELEPHONE NUMBER (AND ADDRESS IF OTHER THAN IN ITEM-1)			
Bruce Parker 496-8050			

## 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
Velocity	Knots	TICUS I-Mark II Meter		See attached sheet.
Direction	Degrees True	TICUS I-Mark II Meter		See attached sheet.

# 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

There are two Record Types:

Record I (Text Record) contains 80 Bytes

Record II ( Data Record) contains 40, 54; 68 Bytes

2. GIVE BRIEF DESCRIPTION OF FILE ORGANIZATION

	1 Sensor	2 Sensors	3 Sensors
Tape 5585		Files: 1-7	
* Tape 5579	Files: 1; 2	Files: 3-12	
Tape 5616	Files: 2; 5	Files: 1,3,4,8-11	Files: 6,7
Tape 5594	Files: 2	Files: 1,3-16	
* The last two files are repeated on the beginning of tape A671.			

3. ATTRIBUTES AS EXPRESSED IN
 

<input type="checkbox"/> PL-1	<input type="checkbox"/> ALGOL	<input type="checkbox"/> COBOL
<input checked="" type="checkbox"/> FORTRAN	<input type="checkbox"/> _____	LANGUAGE

4. RESPONSIBLE COMPUTER SPECIALIST:

NAME AND PHONE NUMBER Bruce Parker (301) 496-8050

ADDRESS 605, WSC-1, C333, Rockville, Maryland 20852

COMPLETE THIS SECTION IF DATA ARE ON MAGNETIC TAPE

<b>5. RECORDING MODE</b> <input checked="" type="checkbox"/> BCD <input type="checkbox"/> BINARY <input type="checkbox"/> ASCII <input type="checkbox"/> EBCDIC <input type="checkbox"/> _____	<b>9. LENGTH OF INTER-RECORD GAP (IF KNOWN)</b> <input checked="" type="checkbox"/> 3/4 INCH <input type="checkbox"/> _____
<b>6. NUMBER OF TRACKS (CHANNELS)</b> <input checked="" type="checkbox"/> SEVEN <input type="checkbox"/> NINE <input type="checkbox"/> _____	<b>10. END OF FILE MARK</b> <input type="checkbox"/> OCTAL 17 <input type="checkbox"/> _____
<b>7. PARITY</b> <input type="checkbox"/> ODD <input checked="" type="checkbox"/> EVEN	<b>11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME LAY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER)</b> <div> 5585      5/10/71 - 10/26/71  5579      5/11/71 - 6/29/71  5616      9/28/71 - 10/13/71  5594      6/14/71 - 8/31/71 </div>
<b>8. DENSITY</b> <input type="checkbox"/> 200 BPI <input type="checkbox"/> 1600 BPI <input checked="" type="checkbox"/> 556 BPI <input type="checkbox"/> 800 BPI <input type="checkbox"/> _____	<b>12. PHYSICAL BLOCK LENGTH IN BYTES</b> 80 unblocked <b>13. LENGTH OF BYTES IN BITS</b> 6 Bits/character

# RECORD FORMAT DESCRIPTION

RECORD NAME TICUS (Current Data)

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
<u>Text Record</u>					
Title	1	30	Bytes		Station Description
<u>Data Record</u>					
Station No.	1	4	Bytes	I3	Job Number
Blank	5	2	Bytes	2X	
Year	7	2	Bytes	I2	Year of Observation
Blank	9	1	Bytes	1X	
Month	10	2	Bytes	I2	Month (1-12)
Blank	12	1	Bytes	1X	
Day	13	2	Bytes	I2	(1-31)
Blank	15	1	Bytes	1X	
Time	16	5	Bytes	F5.2	Hour/Hundredths of Hr.
Blank	21	2	Bytes	1X	
Velocity 1	23	4	Bytes	F4.2	Knots (TICUS I-Mark II Meter)
Blank	27	1	Bytes	1X	
Direction 1	28	3	Bytes	I3	Degrees True (TICUS - Mark II Meter)
Blank	31	1	Bytes	1X	
Weight 1	32	4	Bytes	I4	See the attached explanation of term "WT".
Blank	36	5	Bytes	5X	
Velocity 2	40	4	Bytes	F4.2	Knots (TICUS I-Mark II Meter) See the attached.
Blank	45	1	Bytes	1X	
Direction 2	46	3	Bytes	I3	Degrees True (TICUS I-Mark II Meter) See the attached.
Blank	49	1	Bytes	1X	

# RECORD FORMAT DESCRIPTION

RECORD NAME Continued

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
Weight 2	50	4	Bytes	I4	See the attached explanation of the term "WT"
Blank	54	5	Bytes	5X	
Velocity 3	59	4	Bytes	4F.2	Knots (TICUS I-Mark II Meter) See attached sheet and Section B.
Blank	63	1	Bytes	1X	
Direction 3	64	3	Bytes	I3	Degrees True (TICUS I-Mark II) See the attached sheet and Section B.
Blank	67	1	Bytes	1X	
Weight 3	68	4	Bytes	I4	See the attached explanation of the term "WT"

## 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					INST ME I NC CA BRA
		YOUR ORGANIZATION (✓)	OTHER ORGANIZATION (GIVE NAME)	AT FIXED INTERVALS (✓)	BEFORE OR AFTER USE (✓)	BEFORE AND AFTER USE (✓)	ONLY AFTER REPAIR (✓)	ONLY WHEN NEW (✓)	
TICUS I, Mark II		X		X					

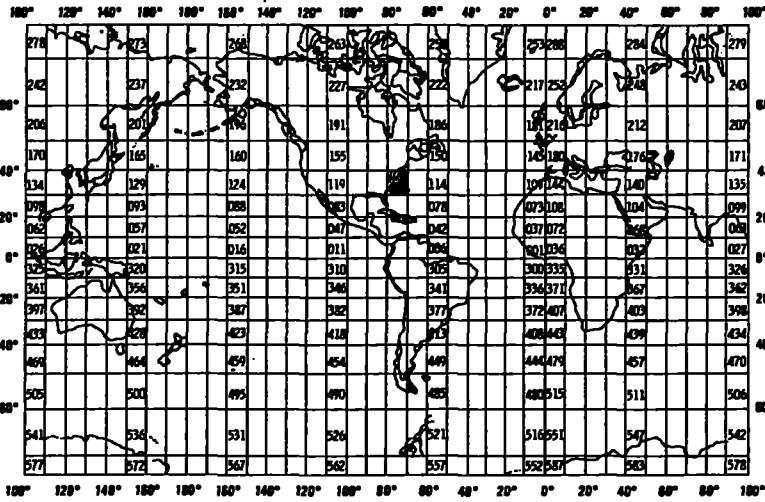
## DATA DOCUMENTATION FORM

NOAA FORM 24-13  
(72)U.S. DEPARTMENT OF COMMERCE  
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION  
NATIONAL OCEANOGRAPHIC DATA CENTER  
RECORDS SECTION  
ROCKVILLE, MARYLAND 20852/FORM APPROVED  
O.M.B. No. 41-R2651

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 Oceanographic Surveys Branch Oceanographic Division Office of Marine Surveys and Maps National Ocean Survey				National Oceanic and Atmospheric Administration 6001 Executive Boulevard Rockville, Maryland 20852			
2. EXPEDITION, PROJECT, OR PROGRAM DURING WHICH DATA WERE COLLECTED  OPR-500-FE-73 South Coastal Plains Expedition				3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT  OPR-500-FE-73			
4. PLATFORM NAME(S)  NOAA Ship FERREL		5. PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.)  130' Survey Ship		6. PLATFORM AND OPERATOR NATIONALITY(IES)  PLATFORM OPERATOR  USA USA		7. DATES  FROM: MO/DAY/YR TO: MO/DAY/YR  2-12-73 6-7-73	
8. ARE DATA PROPRIETARY? <input checked="" 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.  Marsden Square 116  GENERAL AREA			
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)							
10. PERSON TO WHOM INQUIRIES CONCERNING DATA SHOULD BE ADDRESSED WITH TELEPHONE NUMBER (AND ADDRESS IF OTHER THAN IN ITEM-1)  Chief, Oceanographic Surveys Branch  (301) 496-8501							

## 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)



# 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
Velocity	knots	TICUS I-Mark II meter		See below
Direction	degrees true	TICUS I-Mark II meter		See below
Velocity and direction analysis is explained on an attached sheet.				

## 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

*Originator***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**

TICUS

Two types of records

Station headings

READ (1,2) TITLE

DIMENSION TITLE (40)

2 FORMAT (8A10)

See attached sheet

**2. GIVE BRIEF DESCRIPTION OF FILE ORGANIZATION**

Station Heading

Lines of data - This sequence is repeated for the number of files (stations) on the tape. The number of lines of data in each file can be gotten from the attached summary listing.

End of File

**3. ATTRIBUTES AS EXPRESSED IN**☐

PL-1

☐

ALGOL

☐

COBOL

☒

FORTRAN

☐

LANGUAGE

**4. RESPONSIBLE COMPUTER SPECIALIST:**NAME AND PHONE NUMBER Bruce Parker 496-8050ADDRESS Rm. 605, WSC-1, C333, Rockville, Maryland 20852**COMPLETE THIS SECTION IF DATA ARE ON MAGNETIC TAPE**

<b>5. RECORDING MODE</b> <input checked="" type="checkbox"/> BCD <input type="checkbox"/> BINARY <input type="checkbox"/> ASCII <input type="checkbox"/> EBCDIC <input type="checkbox"/> _____	<b>9. LENGTH OF INTER-RECORD GAP (IF KNOWN)</b> <input checked="" type="checkbox"/> 3/4 INCH <input type="checkbox"/> _____
<b>6. NUMBER OF TRACKS (CHANNELS)</b> <input checked="" type="checkbox"/> SEVEN <input type="checkbox"/> NINE <input type="checkbox"/> _____	<b>10. END OF FILE MARK</b> <input checked="" type="checkbox"/> OCTAL 17 <input type="checkbox"/> _____
<b>7. PARITY</b> <input type="checkbox"/> ODD <input checked="" type="checkbox"/> EVEN	<b>11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME LAY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER)</b>  SCOPE - South Coastal Plains Expedition TICUS data- current (velocity and direction) data Bruce Parker 7
<b>8. DENSITY</b> <input type="checkbox"/> 200 BPI <input type="checkbox"/> 1600 BPI <input checked="" type="checkbox"/> 556 BPI <input type="checkbox"/> 800 BPI <input type="checkbox"/> _____	<b>12. PHYSICAL BLOCK LENGTH IN BYTES</b> Two sizes of blocks: 80 & 130 <b>13. LENGTH OF BYTES IN BITS</b>

## 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.

# 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														
TITLE		40	A10	Literal	Literal description of station information												
JBN		1	I3	Integer	Station number												
JYR		1	I2	Integer	Year of data observation												
MO		1	I2	Integer	Month of data observation												
JDAY		1	I2	Integer	Day of data observation												
TIME		1	F5.2	Floating Point	Time of data observation (hundredths of an hour)												
V(I)		I*	F4.2	Floating Point	Velocity of current in knots												
ID(I)		I*	I3	Integer	Direction of current in degrees true												
IW(I)		I*	I4	Integer	Weight value of data (explained in the attached sheet)												
<p>*I - This value varies from one to NMET (the number of current meters at the station). NMET is a value that must be manually taken from the summary listing for the station and entered into the computer from punched IBM cards.</p> <p>EXAMPLE:</p> <p>NMET = 2 sensors</p> <table> <tr> <td>V(I)</td> <td>ID(1)</td> <td>IW(I)</td> <td>V(2)</td> <td>ID(2)</td> <td>IW(2)</td> </tr> <tr> <td>1.2</td> <td>347</td> <td>998</td> <td>.7</td> <td>339</td> <td>874</td> </tr> </table>						V(I)	ID(1)	IW(I)	V(2)	ID(2)	IW(2)	1.2	347	998	.7	339	874
V(I)	ID(1)	IW(I)	V(2)	ID(2)	IW(2)												
1.2	347	998	.7	339	874												

# 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 (✓)	

*Licus*ACCESSION  
NUMBER

73-1004

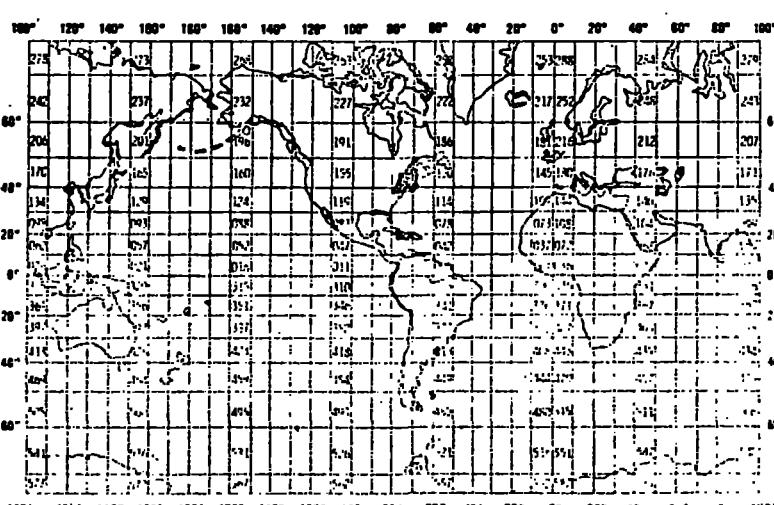
## DATA DOCUMENTATION FORM

NOAA FORM 24-13  
4-721U.S. DEPARTMENT OF COMMERCE  
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION  
NATIONAL OCEANOGRAPHIC DATA CENTER  
RECORDS SECTION  
ROCKVILLE, MARYLAND 20852FORM APPROVED  
O.M.B. No. 41-R2551

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## 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 <i>NATIONAL OCEAN SURVEY (OCEANOGRAPHIC DIVISION)</i> <i>N. O. A. A. / DEPT. OF COMMERCE</i> <i>6001 Executive Blvd.</i> <i>ROCKVILLE, MD</i>			
2. EXPEDITION, PROJECT, OR PROGRAM DURING WHICH DATA WERE COLLECTED <i>OPR-501-FE-71</i> <i>(1971 BOSTON HARBOR CURRENT SURVEY BY NOAA Ship FERREL)</i>		3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT <i>OPR-501-FE-71</i>	
4. PLATFORM NAME(S) <i>Ferrel</i>	5. PLATFORM TYPE(S) (E.G. SHIP, BUOY, ETC.) <i>SURFACE</i> <i>BUOYS</i>	6. PLATFORM AND OPERATOR NATIONALITY(IES) <i>U.S.A.</i>	7. DATES (FIELD SEASON) FROM: MO, DAY, YR TO: MO, DAY, YR <i>May 10 1971</i> <i>Oct. 26 1971</i>
8. ARE DATA PROPRIETARY? <input checked="" 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.  GENERAL AREA 	
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) <i>?</i>			
10. PERSON TO WHOM INQUIRIES CONCERNING DATA SHOULD BE ADDRESSED WITH TELEPHONE NUMBER (AND ADDRESS IF OTHER THAN IN ITEM-1) <i>Bruce Parker</i>			



# 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
CURRENT DATA [TOTAL CURRENT, i.e. TIDAL + NONTIDAL]	SPEED IN KNOTS  DIRECTION IN DEGREES TRUE	CURRENT METERS HUNG FROM SURFACE BUOYS (MINIMUM 7 DAYS, MAXIMUM 170 DAYS)  Two TYPES:  (1) Geodyne Photographic Current meters, Model A102  [film recording;  Samples for a minute once every 10 minutes; Savonius Rotor; 25 direction readings every 2 1/2 sec. Tilt indication.]  Mark II (2) TICUS <sup>Mark II</sup> Current meters (built by Geodyne).  [buoy magnetic tape and telemetry;  Samples for a minute once every 12 minutes; Savonius rotor; 5 DIRECTION READINGS every 7 1/2 seconds during minute.]	<del>Edited out obviously bad data.</del>  <del>Assigned time or corrected false time assignments.</del>  N/A	

A657 = 17 files of data

A671 = 11 " " "

A667 = 16 " " "

A666 = 14 " " "

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48 "

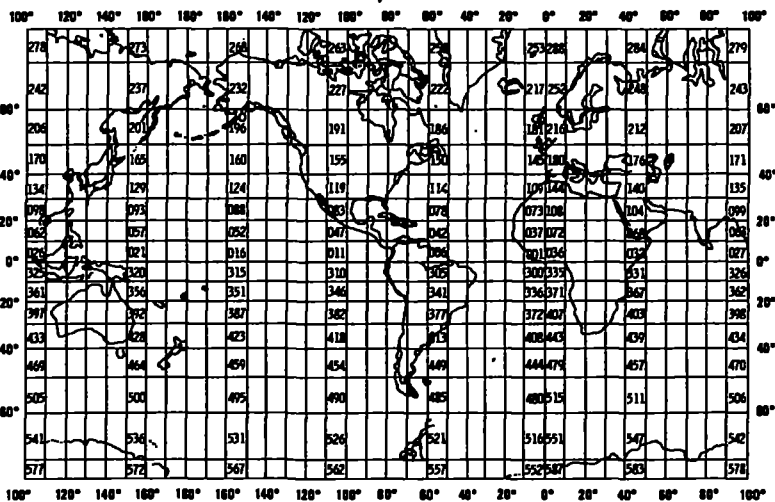
## DATA DOCUMENTATION FORM

NOAA FORM 24-13  
(4-72)U.S. DEPARTMENT OF COMMERCE  
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION  
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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
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.  GENERAL AREA			
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)					
10. PERSON TO WHOM INQUIRIES CONCERNING DATA SHOULD BE ADDRESSED WITH TELEPHONE NUMBER (AND ADDRESS IF OTHER THAN IN ITEM-1)					

## 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)

## 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 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		

# 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		



## DISCUSSION OF TICUS REDUCTION PROCEDURE

The speeds and directions recorded by the TICUS-II system are recorded as five speeds  $s_i$  and five directions  $\theta_i$ . NOS treats the two series  $s_i$  and  $\theta_i$  separately deriving a mean of each series  $\bar{s}$  and  $\bar{\theta}$ , then assuming that in the mean  $\bar{s}$  and  $\bar{\theta}$  can be treated as an ordered pair centered on the middle of the measurement cycle,  $(\bar{s}, \bar{\theta})$ .

The mean of the series  $s_i$  is a simple arithmetic mean.

$$\bar{s} = \sum_{i=1}^N s_i / N$$

At present no editing of the  $s_i$  is done at this stage of the programming. The NOS method of editing  $\bar{s}$  is to compare  $\bar{s}(t_1)$  with  $\bar{s}(t_0)$  and  $\bar{s}(t_2)$  where  $t_0, t_1, t_2$  represent consecutive recording intervals.

The mean of the series  $\theta_i$  is determined by assigning a unit vector to each of the elements  $\theta_i$ . The cosine and sine components are arithmetically averaged to yield

$$x = \left( \sum_{i=1}^N \cos \theta_i \right) / N$$

$$y = \left( \sum_{i=1}^N \sin \theta_i \right) / N$$

The components (x,y) are resolved to a tentative  $\bar{\theta}$

$$\bar{\theta} = \tan^{-1} y/x$$

This  $\bar{\theta}$  is compared to the  $\theta_i$ . If any  $|\bar{\theta} - \theta_i| > 90^\circ$ , that  $\theta_i$  is removed and a new  $\bar{\theta}$  is computed. On the second pass all  $\theta_i$  such that  $|\bar{\theta} - \theta_i| > 60^\circ$  are removed and a new mean computed. A third pass is made to eliminate  $\theta_i$  where  $|\bar{\theta} - \theta_i| > 30^\circ$  and the final  $\bar{\theta}$  is computed.

This final  $\bar{\theta}$  and the  $\bar{s}$  discussed above are assigned to the ordered pair  $(\bar{s}, \bar{\theta})$ .

The estimated validity of  $\bar{\theta}$  is assigned  $\bar{w}$  according to the ratio

$$\bar{w} = \frac{\left( \sum_{i=1}^5 \cos \theta_i \right)^2 + \left( \sum_{i=1}^5 \sin \theta_i \right)^2}{(5 \cos \bar{\theta})^2 + (5 \sin \bar{\theta})^2}$$

By visual test this yields a weight  $\bar{w} = 1.000$  for  $\theta_1 = \theta_2 = \theta_3 = \theta_4 = \theta_5 = \bar{\theta}$  and  $\bar{w} = 0.000$  for  $\theta_1 - \theta_2 = \theta_2 - \theta_3 = \theta_3 - \theta_4 = \theta_4 - \theta_5 = \theta_5 - \theta_1 = 72^\circ$  or the cases of mutually cancelling vectors.

Since the weight  $\bar{w}$  applies only to the  $\bar{\theta}$  the ordered pair of numbers for time  $t$  will in reality be the number  $\bar{s}$  paired with the ordered pair  $(\bar{\theta}, \bar{w})$ , or

$$(\bar{s}, (\bar{\theta}, \bar{w}))$$

Password:

accNo	fleA	refNo	proj	inst	ship	startDate	cruise	catId
7301004	C100	TR0026	9999	31J4	318L	1971/05/01	NULL	283415

(1 row affected)

Password:

accNo	fileA	refNo	ship	staCnt	recCnt	startDate	endDate
7301004	C100	TR0026	318L	46	0	May 1 1971	Oct 1 1971

(1 row affected)