

NAPIS 76-1355 INSTITUTION U. OF RHODE ISLAND

Proj No. TR0102

VESSEL R/V TRIDENT DATES 2/12/69 to 2/15/69

CRUISE GSO 41/42/44

MARSDEN 043 (10°+ N, 60°+ W)

3 STATIONS (CURRENT MEASUREMENTS)

3061 V COMPONENTS (NORTH)

3061 U COMPONENTS (EAST)

3061 SPEED MEASUREMENTS

3061 DIRECTION MEASUREMENTS

ORIGINATOR TAPE 9423

USER TAPE 4234 (9, NL)

DATA DOCUMENTATION FORM

TR-0102

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

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			
Data Archives Graduate School of Oceanography University of Rhode Island Kingston, RI 02881			
2. EXPEDITION, PROJECT, OR PROGRAM DURING WHICH DATA WERE COLLECTED		3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT	
"Renewal Project"		GSO 41-42-44	
4. PLATFORM NAME(S)	5. PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.)	6. PLATFORM AND OPERATOR NATIONALITY(IES)	
		PLATFORM	OPERATOR
R/V Trident	Ship	U.S.A.	U.S.A.
		7. FROM: MO/DAY/YR	TO: MO/DAY/YR
		2/12/69	2/15/69
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.	
9. ARE DATA DECLARED NATIONAL PROGRAM (DNP)? (I.E., SHOULD THEY BE INCLUDED IN WORLD DATA CENTERS HOLDINGS FOR INTERNATIONAL EXCHANGE?) <input checked="" 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)  Edwin McB. Williams  (401) 792-6285			

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
Instrument Depth	Meters	Current Meter	Corrected Depth	N/A (not applicable)
Latitude	Degrees, Minutes, Tenths of Minutes, North or South.	N/A	N/A	N/A
Longitude	Degrees, Minutes, Tenths of Minutes, East or West.	N/A	N/A	N/A
Magnetic Variation	Degrees and Direction	N/A	N/A	N/A
Water Depth	Meters	N/A	Corrected Depth	N/A
Start Time (GMT)	Year Month Day Hour Minute	Gregorian Calendar	N/A	N/A
Sample Interval	Minutes	N/A	N/A	N/A
# Samples	Total number of samples in data records.	N/A	N/A	N/A
Meter Type		EG & G Model A - 100 EG & G Model A - 102 EG & G Model A - 850A VACM - Vector Averaging Current Meter, made by AMF Incorporated, Alexandria, VA	N/A	N/A
Instrument #	Alpha-numeric Desig.	-----	-----	-----

## B. SCIENTIFIC CONTENT (CONT'D)

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
Variables: N	N = North/South velocity component in cm/sec North being positive.		List of variables, stored in order of appearance in each data cycle. Commas separate the possible abbreviations listed previously.	
E	E = East/West velocity component in cm/sec East being positive.			
S	S = Scalar Speed in cm/sec.			
D	D = Total direction in degrees (corrected magnetically)			
C	C = Compass reading in degrees			
V	V = Vane reading in degrees			
T	T = Time consisting of year, month, hour, min. sec. as described in free format label records.			
Temp	Temperature in °C			

B. SCIENTIFIC CONTENT (CONT'D)

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
<p>R</p> <p>Format</p>	<p>R = Rotor Count</p> <p>Specifications which apply to those variables stored in data records.</p>			

C. DATA FORMAT

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

ORIGINATOR TAPE

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

See technical report noted in section B (above).

2. GIVE BRIEF DESCRIPTION OF FILE ORGANIZATION

File organization is as shown on URI letter To: E. McB. Williams; From: William P. Kramer, 4 June 1976, attached.

Note: Individual current meters are given a U.R.I. Institutional number - (e.g, GS041, GS042 etc. - see first two DSN= of Tape AQ3CM4)

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

4. RESPONSIBLE COMPUTER SPECIALIST: William P. Kramer (401) 792-6108  
NAME AND PHONE NUMBER Edwin McB. Williams (401) 792-6285  
ADDRESS GSO/URI, Kingston, R.I. 02881

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>Not known <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 KEY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER)</p> <p>DSN = AQ3CM4 (Standard Label)</p> <p>GSO/URI, Data Archives</p> <p>Current Meter Data</p> <p>TAPE # 9423</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>8000</p> <p>13. LENGTH OF BYTES IN BITS</p> <p>8</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**

Type I records are header text records which precede each meter. Each station contains ten (10) header records sequenced by record number (1 thru 10) in bytes 85-86.

Type II records are data records and are identified by a record type "11" in bytes 85-86.

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

File contains three (3) meter plants consisting of 86 byte records.

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

**4. RESPONSIBLE COMPUTER SPECIALIST:**

NAME AND PHONE NUMBER DSF & I Branch 634-7505  
 ADDRESS NODC

**COMPLETE THIS SECTION IF DATA ARE ON MAGNETIC TAPE**

<p><b>5. RECORDING MODE</b></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><b>9. LENGTH OF INTER-RECORD GAP (IF KNOWN)</b> <input checked="" type="checkbox"/> 3/4 INCH  <input type="checkbox"/> _____</p>
<p><b>6. NUMBER OF TRACKS (CHANNELS)</b></p> <p><input type="checkbox"/> SEVEN</p> <p><input checked="" type="checkbox"/> NINE</p> <p><input type="checkbox"/> _____</p>	<p><b>10. END OF FILE MARK</b></p> <p><input type="checkbox"/> OCTAL 17  <input type="checkbox"/> _____</p>
<p><b>7. PARITY</b></p> <p><input type="checkbox"/> ODD</p> <p><input type="checkbox"/> EVEN</p>	<p><b>11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME LAY SPECIFICATIONS OF DATA TYPE; VOLUME NUMBER)</b></p> <p>Napis Files PJT Vol II              Tape #4234              Label=(9,NL)                      LRECL=86  <span style="float:right">RECFM=FB</span></p>
<p><b>8. DENSITY</b></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><b>12. PHYSICAL BLOCK LENGTH IN BYTES</b></p> <p><del>100</del> 4300</p>
<p><b>13. LENGTH OF BYTES IN BITS</b></p> <p align="center">6</p>	

RECORD FORMAT DESCRIPTION

RECORD NAME Type I (Header) Records

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN Bytes (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
<u>Record #1</u>					
Project Title	18	16	Bytes	16A1	
Investigators	55	24	Bytes	24A1	List of principal investigators
Record Number	81	2	Bytes	I2	Always '01'
Meter Number	83	4	Bytes	A4	Individual identification number for each meter
<u>Record #2</u>					
GSO Sequence Number	17	8	Bytes	8A1	
Mooring Number and Type	44	16	Bytes	16A1	URI mooring number and type of mooring
Record Number	81	2	Bytes	I2	Always '02'
Meter Number	83	4	Bytes	A4	
<u>Record #3</u>					
Meter Type	13	4	Bytes	A4	
Instrument Number	31	4	Bytes	A4	
Instrument Depth	37	6	Bytes	F6.1	Corrected depth in meters
Record Number	81	2	Bytes	I2	Always '03'
Meter Number	83	4	Bytes	A4	



RECORD FORMAT DESCRIPTION

RECORD NAME Type I (Header) Records Continued

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN Bytes (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
<u>Record #4</u>					
Latitude Degrees	6	4	Bytes	I4	Whole Degrees
Latitude Minutes	11	5	Bytes	F5.1	Minutes and tenths
Latitude Hemisphere	17	1	Bytes	A1	'N' or 'S'
Longitude Degrees	25	4	Bytes	I4	Whole Degrees
Longitude Minutes	30	5	Bytes	F5.1	Minutes and tenths
Longitude Hemisphere	36	1	Bytes	A1	'E' or 'W'
Magnetic Variation	49	4	Bytes	I4	Absolute value of applied magnetic variation in whole degrees
Magnetic Direction	54	1	Bytes	A1	Direction of magnetic variation 'E' or 'W'
Water Depth	75	6	Bytes	F6.1	Water depth in corrected meters
Record Number	81	2	Bytes	I2	Always '04'
Mater Number	83	4	Bytes	A4	
<u>Record #5</u>					
Start Year	18	4	Bytes	I4	} All values in G.M.T.
Start Month	23	2	Bytes	I2	
Start Day	26	2	Bytes	I2	
Start Hour	31	2	Bytes	I2	
Start Minute	34	2	Bytes	I2	
Sample Interval	53	5	Bytes	F5.1	Numeric designation of the sample interval
Sample Interval Units	59	4	Bytes	A4	Time designation of the sample interval, i.e. 'MINS'

RECORD FORMAT DESCRIPTION

RECORD NAME Type I (Header) Records Continued

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN Bytes (0-8 = bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
<u>Record #5 Cont.</u>					
Sample Count	74	4	Bytes	I4	Total number of samples stored in the data records
Record Number	81	2	Bytes	I2	Always '05'
Meter Number	83	4	Bytes	A4	
<u>Record #6</u>					
Variables List	13	64	Bytes	64A1	A list of variables stored in order of appearance in each data cycle. Commas separate the possible abbreviations below.  N = North/South Comp. E = East/West Comp. S = Scalar Speed D = Direction C = Compass V = Vane T = Time R = Rotor Count Temp= Temperature
Record Number	81	2	Bytes	I2	Always '06'
Meter Number	83	4	Bytes	A4	
<u>Record #7</u>					
Format	11	64	Bytes	16A4	The format specification which applies to those variables indicated in record no. 6 and stored in the data records
Record Number	81	2	Bytes	I2	Always '07'
Meter Number	83	4	Bytes	A4	

RECORD FORMAT DESCRIPTION

RECORD NAME Type I (Header) Records Continued

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN Bytes <small>(e.g., bits, bytes)</small>	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
<u>Records #8, 9, 10</u>					
Text	1	80	Bytes	20A4	Any information which describes the meter and/or the station.
Record Number	81	2	Bytes	I2	'08', '09' or '10'
Meter Number	83	4	Bytes	A4	

RECORD FORMAT DESCRIPTION

RECORD NAME Type II (Data) Record

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN Bytes (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
V Component	1	5	Bytes	F5.1	North/South velocity component in cm/sec. North is positive
U Component	6	5	Bytes	F5.1	East/West velocity component in cm/sec. East is positive
Speed	11	5	Bytes	F5.1	Current scalar speed in cm/sec.
Direction	16	5	Bytes	F5.0	Current direction in degrees with magnetic correction added.
V Component	21	5	Bytes	F5.1	} As above
U Component	26	5	Bytes	F5.1	
Speed	31	5	Bytes	F5.1	
Direction	36	5	Bytes	F5.0	
V Component	41	5	Bytes	F5.1	} As above
Component	46	5	Bytes	F5.1	
Speed	51	5	Bytes	F5.1	
Direction	56	5	Bytes	F5.0	
V Component	61	5	Bytes	F5.1	} As above
U Component	66	5	Bytes	F5.1	
Speed	71	5	Bytes	F5.1	
Direction	76	5	Bytes	F5.0	
Record Type Sequence No.	81	2	Bytes	I2	Always '11'
Meter Number	83	4	Bytes	A4	Individual identification number for each meter

DDF A.1:13

NAPIS 76-1355

INSTITUTION U. OF RHODE ISLAND

~~76-1355~~  
~~TR.0103~~

TR.0103

VESSEL R/V BILLIE II

DATES 10/9/70 TO 3/17/71

CRUISE GSO 63/64/61/80/81/83

MARSDEN

152

(40+ N, 70+ W)

6 STATIONS (CURRENT MEASUREMENTS)

2806 11317 V COMPONENTS (NORTH)

2807 11317 U COMPONENTS (EAST)

2803 11317 DIRECTION MEASUREMENTS

2802 11317 SPEED MEASUREMENTS

ORIGINATOR TAPE 9423

USER TAPE 4234 (11, NL)

CALENDAR YEAR 70

CALENDAR YEAR 71

3 STATIONS

10236 V COMPONENTS

10236 U COMPONENTS

10236 DIRECTION MEAS.

10236 SPEED MEAS.

3 STATIONS

1081 V COMPONENTS

1081 U COMPONENTS

1081 DIRECTION

1081 SPEED

## DATA DOCUMENTATION FORM

TR0103

NOAA FORM 24-13  
(4-72)U.S. DEPARTMENT OF COMMERCE  
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION  
NATIONAL OCEANOGRAPHIC DATA CENTER  
RECORDS SECTION  
ROCKVILLE, MARYLAND 20852FORM APPROVED  
O.M.B. No. 41-R2651

TR-0103

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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			
Data Archives Graduate School of Oceanography University of Rhode Island Kingston, RI 02881			
2. EXPEDITION, PROJECT, OR PROGRAM DURING WHICH DATA WERE COLLECTED		3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT	
"Rome Point" Project		GSO 63/64/80/81/83/61	
4. PLATFORM NAME(S)	5. PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.)	6. PLATFORM AND OPERATOR NATIONALITY(IES)	7. DATES
R/V Billie II	Ship	U.S.A.	U.S.A.
		PLATFORM	OPERATOR
		FROM: MO/DAY/YR	TO: MO/DAY/YR
		10/9/70	3/17/71
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.	
9. ARE DATA DECLARED NATIONAL PROGRAM (DNP)? (I.E., SHOULD THEY BE INCLUDED IN WORLD DATA CENTERS HOLDINGS FOR INTERNATIONAL EXCHANGE?) <input checked="" 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)  Edwin McB. Williams (401) 792-6285			

## 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
Instrument Depth	Meters	Current Meter	Corrected Depth	N/A (not applicable)
Latitude	Degrees, Minutes, Tenths of Minutes, North or South.	N/A	N/A	N/A
Longitude	Degrees, Minutes, Tenths of Minutes, East or West.	N/A	N/A	N/A
Magnetic Variation	Degrees and Direction	N/A	N/A	N/A
Water Depth	Meters	N/A	Corrected Depth	N/A
Start Time (GMT)	Year Month Day Hour Minute	Gregorian Calendar	N/A	N/A
Sample Interval	Minutes	N/A	N/A	N/A
# Samples	Total number of samples in data records.	N/A	N/A	N/A
Meter Type		EG & G Model A - 100 EG & G Model A - 102 EG & G Model A - 850A VACM - Vector Averaging Current Meter, made by AMF Incorporated, Alexandria, VA	N/A	N/A
Instrument #	Alpha-numeric Desig.	-----	-----	-----

B. SCIENTIFIC CONTENT (CONT'D)

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
Variables:	<p>N = North/South velocity component in cm/sec North being positive.</p> <p>E = East/West velocity component in cm/sec East being positive.</p> <p>S = Scalar Speed in cm/sec.</p> <p>D = Total direction in degrees (corrected magnetically)</p> <p>C = Compass reading in degrees</p> <p>V = Vane reading in degrees</p> <p>T = Time consisting of year, month, hour, min. sec. as described in free format label records.</p> <p>Temp = Temperature in °C</p>		<p>List of variables, stored in order of appearance in each data cycle. Commas separate the possible abbreviations listed previously.</p>	



B. SCIENTIFIC CONTENT (CONT'D)

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
<p>R</p> <p>Format</p>	<p>R = Rotor Count</p> <p>Specifications which apply to those variables stored in data records.</p>			

C. DATA FORMAT

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

ORIGINATOR TAPE

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

See technical report noted in section B (above).

2. GIVE BRIEF DESCRIPTION OF FILE ORGANIZATION

File organization is as shown on URI letter To: E. McB. Williams; From: William P. Kramer, 4 June 1976, attached.

Note: Individual current meters are given a U.R.I. Institutional number - (e.g, GS~~0~~41, GS~~0~~42 etc. - see first two DSN= of Tape AQ3CM4)

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

4. RESPONSIBLE COMPUTER SPECIALIST: William P. Kramer (401) 792-6108  
NAME AND PHONE NUMBER Edwin McB. Williams (401) 792-6285  
ADDRESS GSO/URI, Kingston, R.I. 02881

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</p> <p><input type="checkbox"/> OCTAL 17</p> <p>Not known <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 KEY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER)</p> <p>DSN = AQ3CM4 (Standard Label)</p> <p>GSO/URI, Data Archives Current Meter Data</p> <p>TAPE # 9423</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>8000</p> <p>13. LENGTH OF BYTES IN BITS</p> <p>8</p>

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

Type I records are header text records which precede each meter. Each station contains ten (10) header records sequenced by record number (1 thru 10) in bytes 85-86.

Type II records are data records and are identified by a record type "11" in bytes 85-86.

2. GIVE BRIEF DESCRIPTION OF FILE ORGANIZATION

File contains three (3) meter plants consisting of 86 byte records.

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

4. RESPONSIBLE COMPUTER SPECIALIST:

NAME AND PHONE NUMBER DSF & I Branch 634-7505  
ADDRESS NODC

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 checked="" 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 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>Napis Files PJT Vol II  Tape #4234  Label=(11,NL)              LRECL=86                                       RECFM=FB</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  6400</p>
	<p>13. LENGTH OF BYTES IN BITS  6</p>

RECORD FORMAT DESCRIPTION

RECORD NAME Type I (Header) Records

FIELD NAME	15. POSITION FROM - 1 MEASURED IN Bytes (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
<u>Record #1</u>					
Project Title	18	16	Bytes	16A1	
Investigators	55	24	Bytes	24A1	List of principal investigators
Record Number	81	2	Bytes	I2	Always '01'
Meter Number	83	4	Bytes	A4	Individual identification number for each meter
<u>Record #2</u>					
GSO Sequence Number	17	8	Bytes	8A1	
Mooring Number and Type	44	16	Bytes	16A1	URI mooring number and type of mooring
Record Number	81	2	Bytes	I2	Always '02'
Meter Number	83	4	Bytes	A4	
<u>Record #3</u>					
Meter Type	13	4	Bytes	A4	
Instrument Number	31	4	Bytes	A4	
Instrument Depth	37	6	Bytes	F6.1	Corrected depth in meters
Record Number	81	2	Bytes	I2	Always '03'
Meter Number	83	4	Bytes	A4	

## RECORD FORMAT DESCRIPTION

RECORD NAME Type I (Header) Records Continued

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN Bytes (0-A, bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
<u>Record #4</u>					
Latitude Degrees	6	4	Bytes	I4	Whole Degrees
Latitude Minutes	11	5	Bytes	F5.1	Minutes and tenths
Latitude Hemisphere	17	1	Bytes	A1	'N' or 'S'
Longitude Degrees	25	4	Bytes	I4	Whole Degrees
Longitude Minutes	30	5	Bytes	F5.1	Minutes and tenths
Longitude Hemisphere	36	1	Bytes	A1	'E' or 'W'
Magnetic Variation	49	4	Bytes	I4	Absolute value of applied magnetic variation in whole degrees
Magnetic Direction	54	1	Bytes	A1	Direction of magnetic variation 'E' or 'W'
Water Depth	75	6	Bytes	F6.1	Water depth in corrected meters
Record Number	81	2	Bytes	I2	Always '04'
Meter Number	83	4	Bytes	A4	
<u>Record #5</u>					
Start Year	18	4	Bytes	I4	} All values in G.M.T.
Start Month	23	2	Bytes	I2	
Start Day	26	2	Bytes	I2	
Start Hour	31	2	Bytes	I2	
Start Minute	34	2	Bytes	I2	
Sample Interval	53	5	Bytes	F5.1	Numeric designation of the sample interval
Sample Interval Units	59	4	Bytes	A4	Time designation of the sample interval, i.e. 'MINS'

RECORD FORMAT DESCRIPTION

RECORD NAME Type I (Header) Records Continued

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN Bytes <small>(e.g., bits, bytes)</small>	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
<u>Record #5 Cont.</u>					
Sample Count	74	4	Bytes	I4	Total number of samples stored in the data records
Record Number	81	2	Bytes	I2	Always '05'
Meter Number	83	4	Bytes	A4	
<u>Record #6</u>					
Variables List	13	64	Bytes	64A1	A list of variables stored in order of appearance in each data cycle. Commas separate the possible abbreviations below.  N = North/South Comp. E = East/West Comp. S = Scalar Speed D = Direction C = Compass V = Vane T = Time R = Rotor Count Temp= Temperature
Record Number	81	2	Bytes	I2	Always '06'
Meter Number	83	4	Bytes	A4	
<u>Record #7</u>					
Format	11	64	Bytes	16A4	The format specification which applies to those variables indicated in record no. 6 and stored in the data records
Record Number	81	2	Bytes	I2	Always '07'
Meter Number	83	4	Bytes	A4	

RECORD FORMAT DESCRIPTION

RECORD NAME Type I (Header) Records Continued

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN Bytes (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
Records #8, 9, 10					
Text	1	80	Bytes	20A4	Any information which describes the meter and/or the station.
Record Number	81	2	Bytes	I2	'08', '09' or '10'
Meter Number	83	4	Bytes	A4	

RECORD FORMAT DESCRIPTION

RECORD NAME Type II (Data) Record

14. FIELD NAME	15. POSITION FROM -1 MEASURED in Bytes (0-8, bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS.		
V Component	1	5	Bytes	F5.1	North/South velocity component in cm/sec. North is positive
U Component	6	5	Bytes	F5.1	East/West velocity component in cm/sec. East is positive
Speed	11	5	Bytes	F5.1	Current scalar speed in cm/sec.
Direction	16	5	Bytes	F5.0	Current direction in degrees with magnetic correction added.
V Component	21	5	Bytes	F5.1	} As above
U Component	26	5	Bytes	F5.1	
Speed	31	5	Bytes	F5.1	
Direction	36	5	Bytes	F5.0	
V Component	41	5	Bytes	F5.1	} As above
Component	46	5	Bytes	F5.1	
Speed	51	5	Bytes	F5.1	
Direction	56	5	Bytes	F5.0	
V Component	61	5	Bytes	F5.1	} As above
U Component	66	5	Bytes	F5.1	
Speed	71	5	Bytes	F5.1	
Direction	76	5	Bytes	F5.0	
Record Type Sequence No.	81	2	Bytes	I2	Always '11'
Meter Number	83	4	Bytes	A4	Individual identification number for each meter



NAPIS 76-1355 INSTITUTION U. OF RHODE ISLAND

R.A. NO. TR0104

VESSEL R/V TRIDENT DATES 5/8/71 TO 5/13/71

CRUISE G50 86/90/93/94

MARSDEN 116 (30+N, 70+W)

4 STATIONS

2806 6988 V COMPONENTS (NORTH) OF CURRENT

2807 6988 U COMPONENTS (EAST)

2802 6988 SPEED MEASUREMENTS

2803 6988 DIRECTION MEASUREMENTS

ORIGINATOR TAPE 9423

USER TAPE 4234 (12, NL)

DATA DOCUMENTATION FORM

TR-0104

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

<b>1. NAME AND ADDRESS OF INSTITUTION, LABORATORY, OR ACTIVITY WITH WHICH SUBMITTED DATA ARE ASSOCIATED</b>  Data Archives Graduate School of Oceanography University of Rhode Island Kingston, RI 02881														
<b>2. EXPEDITION, PROJECT, OR PROGRAM DURING WHICH DATA WERE COLLECTED</b>  "Gulf Stream" Project		<b>3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT</b>  GSO 86/90/93/94												
<b>4. PLATFORM NAME(S)</b>  R/V Trident	<b>5. PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.)</b>  Ship	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th colspan="2" style="padding: 2px;">6. PLATFORM AND OPERATOR NATIONALITY(IES)</th> <th colspan="2" style="padding: 2px;">7. DATES</th> </tr> <tr> <th style="padding: 2px;">PLATFORM</th> <th style="padding: 2px;">OPERATOR</th> <th style="padding: 2px;">FROM: MO/DAY/YR</th> <th style="padding: 2px;">TO: MO/DAY/YR</th> </tr> <tr> <td style="padding: 2px; text-align: center;">U.S.A.</td> <td style="padding: 2px; text-align: center;">U.S.A.</td> <td style="padding: 2px; text-align: center;">5/8/71</td> <td style="padding: 2px; text-align: center;">5/13/71</td> </tr> </table>	6. PLATFORM AND OPERATOR NATIONALITY(IES)		7. DATES		PLATFORM	OPERATOR	FROM: MO/DAY/YR	TO: MO/DAY/YR	U.S.A.	U.S.A.	5/8/71	5/13/71
6. PLATFORM AND OPERATOR NATIONALITY(IES)		7. DATES												
PLATFORM	OPERATOR	FROM: MO/DAY/YR	TO: MO/DAY/YR											
U.S.A.	U.S.A.	5/8/71	5/13/71											
<b>8. ARE DATA PROPRIETARY?</b> <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES  IF YES, WHEN CAN THEY BE RELEASED FOR GENERAL USE? YEAR _____ MONTH _____		<b>11. PLEASE DARKEN ALL MARSDEN SQUARES IN WHICH ANY DATA CONTAINED IN YOUR SUBMISSION WERE COLLECTED.</b>  <p style="text-align: center;">GENERAL AREA</p>												
<b>9. ARE DATA DECLARED NATIONAL PROGRAM (DNP)?</b> (I.E., SHOULD THEY BE INCLUDED IN WORLD DATA CENTERS HOLDINGS FOR INTERNATIONAL EXCHANGE?)  <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES <input type="checkbox"/> PART (SPECIFY BELOW)		(Continuation of the map area from the previous row)												
<b>10. PERSON TO WHOM INQUIRIES CONCERNING DATA SHOULD BE ADDRESSED WITH TELEPHONE NUMBER (AND ADDRESS IF OTHER THAN IN ITEM-1)</b>  Edwin McB. Williams (401) 792-6285														

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
Instrument Depth	Meters	Current Meter	Corrected Depth	N/A (not applicable)
Latitude	Degrees, Minutes, Tenths of Minutes, North or South.	N/A	N/A	N/A
Longitude	Degrees, Minutes, Tenths of Minutes, East or West.	N/A	N/A	N/A
Magnetic Variation	Degrees and Direction	N/A	N/A	N/A
Water Depth	Meters	N/A	Corrected Depth	N/A
Start Time (GMT)	Year Month Day Hour Minute	Gregorian Calendar	N/A	N/A
Sample Interval	Minutes	N/A	N/A	N/A
# Samples	Total number of samples in data records.	N/A	N/A	N/A
Meter Type		EG & G Model A - 100 EG & G Model A - 102 EG & G Model A - 850A VACM - Vector Averaging Current Meter, made by AMF Incorporated, Alexandria, VA	N/A	N/A
Instrument #	Alpha-numeric Desig.	-----	-----	-----

B. SCIENTIFIC CONTENT (CONT'D)

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
<p>Variables: N</p> <p>E</p> <p>S</p> <p>D</p> <p>C</p> <p>V</p> <p>T</p>	<p>N = North/South velocity component in cm/sec North being positive.</p> <p>E = East/West velocity component in cm/sec East being positive.</p> <p>S = Scalar Speed in cm/sec.</p> <p>D = Total direction in degrees (corrected magnetically)</p> <p>C = Compass reading in degrees</p> <p>V = Vane reading in degrees</p> <p>T = Time consisting of year, month, hour, min. sec. as described in free format label records.</p>		<p>List of variables, stored in order of appearance in each data cycle. Commas separate the possible abbreviations listed previously.</p>	
<p>Temp</p>	<p>Temperature in °C</p>			

B. SCIENTIFIC CONTENT (CONT'D)

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
<p>Format</p>	<p>R = Rotor Count</p> <p>Specifications which apply to those variables stored in data records.</p>			

C. DATA FORMAT

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

ORIGINATOR TAPE

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

See technical report noted in section B (above).

2. GIVE BRIEF DESCRIPTION OF FILE ORGANIZATION

File organization is as shown on URI letter To: E. McB. Williams; From: William P. Kramer, 4 June 1976, attached.

Note: Individual current meters are given a U.R.I. Institutional number - (e.g, GS041, GS042 etc. - see first two DSN= of Tape AQ3CM4)

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

4. RESPONSIBLE COMPUTER SPECIALIST: William P. Kramer (401) 792-6108  
NAME AND PHONE NUMBER Edwin McB. Williams (401) 792-6285  
ADDRESS GSO/URI, Kingston, R.I. 02881

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</p> <p><input type="checkbox"/> OCTAL 17</p> <p>Not known <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 KEY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER)</p> <p>DSN = AQ3CM4 (Standard Label)</p> <p>GSO/URI, Data Archives</p> <p>Current Meter Data</p> <p>Tape # 9423</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>8000</p> <p>13. LENGTH OF BYTES IN BITS</p> <p>8</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

Type I records are header text records which precede each meter. Each station contains ten (10) header records sequenced by record number (1 thru 10) in bytes 85-86.

Type II records are data records and are identified by a record type "11" in bytes 85-86.

2. GIVE BRIEF DESCRIPTION OF FILE ORGANIZATION

File contains three (3) meter plants consisting of 86 byte records.

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

4. RESPONSIBLE COMPUTER SPECIALIST:

NAME AND PHONE NUMBER DSF & I Branch 634-7505  
ADDRESS NODC

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 checked="" 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</p> <input type="checkbox"/> OCTAL 17 <input type="checkbox"/> _____
<p>7. PARITY</p> <input 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>Napis Files PJT Vol II  Tape #4234  Label=(12,NL) LRECL=86  RECFM=FB</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</p> <p>6400</p>
	<p>13. LENGTH OF BYTES IN BITS</p> <p>6</p>

RECORD FORMAT DESCRIPTION

RECORD NAME Type I (Header) Records

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN Bytes (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
<u>Record #1</u>					
Project Title	18	16	Bytes	16A1	
Investigators	55	24	Bytes	24A1	List of principal investigators
Record Number	81	2	Bytes	I2	Always '01'
Meter Number	83	4	Bytes	A4	Individual identification number for each meter
<u>Record #2</u>					
GSO Sequence Number	17	8	Bytes	8A1	
Mooring Number and Type	44	16	Bytes	16A1	URI mooring number and type of mooring
Record Number	81	2	Bytes	I2	Always '02'
Meter Number	83	4	Bytes	A4	
<u>Record #3</u>					
Meter Type	13	4	Bytes	A4	
Instrument Number	31	4	Bytes	A4	
Instrument Depth	37	6	Bytes	F6.1	Corrected depth in meters
Record Number	81	2	Bytes	I2	Always '03'
Meter Number	83	4	Bytes	A4	



RECORD FORMAT DESCRIPTION

RECORD NAME Type I (Header) Records Continued

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN Bytes <small>(e.g., bits, bytes)</small>	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
<u>Record #4</u>					
Latitude Degrees	6	4	Bytes	I4	Whole Degrees
Latitude Minutes	11	5	Bytes	F5.1	Minutes and tenths
Latitude Hemisphere	17	1	Bytes	A1	'N' or 'S'
Longitude Degrees	25	4	Bytes	I4	Whole Degrees
Longitude Minutes	30	5	Bytes	F5.1	Minutes and tenths
Longitude Hemisphere	36	1	Bytes	A1	'E' or 'W'
Magnetic Variation	49	4	Bytes	I4	Absolute value of applied magnetic variation in whole degrees
Magnetic Direction	54	1	Bytes	A1	Direction of magnetic variation 'E' or 'W'
Water Depth	75	6	Bytes	F6.1	Water depth in corrected meters
Record Number	81	2	Bytes	I2	Always '04'
Meter Number	83	4	Bytes	A4	
<u>Record #5</u>					
Start Year	18	4	Bytes	I4	} All values in G.M.T.
Start Month	23	2	Bytes	I2	
Start Day	26	2	Bytes	I2	
Start Hour	31	2	Bytes	I2	
Start Minute	34	2	Bytes	I2	
Sample Interval	53	5	Bytes	F5.1	Numeric designation of the sample interval
Sample Interval Units	59	4	Bytes	A4	Time designation of the sample interval, i.e. 'MINS'

RECORD FORMAT DESCRIPTION

RECORD NAME Type I (Header) Records Continued

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN Bytes (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
<u>Record #5 Cont.</u>					
Sample Count	74	4	Bytes	I4	Total number of samples stored in the data records.
Record Number	81	2	Bytes	I2	Always '05'
Meter Number	83	4	Bytes	A4	
<u>Record #6</u>					
Variables List	13	64	Bytes	64A1	A list of variables stored in order of appearance in each data cycle. Commas separate the possible abbreviations below.  N = North/South Comp. E = East/West Comp. S = Scalar Speed D = Direction C = Compass V = Vane T = Time R = Rotor Count Temp= Temperature
Record Number	81	2	Bytes	I2	Always '06'
Meter Number	83	4	Bytes	A4	
<u>Record #7</u>					
Format	11	64	Bytes	16A4	The format specification which applies to those variables indicated in record no. 6 and stored in the data records
Record Number	81	2	Bytes	I2	Always '07'
Meter Number	83	4	Bytes	A4	

RECORD FORMAT DESCRIPTION

RECORD NAME Type I (Header) Records Continued

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN Bytes <small>(e.g., bits, bytes)</small>	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
Records #8, 9, 10					
Text	1	80	Bytes	20A4	Any information which describes the meter and/or the station.
Record Number	81	2	Bytes	I2	'08', '09' or '10'
Meter Number	83	4	Bytes	A4	

RECORD FORMAT DESCRIPTION

RECORD NAME Type II (Data) Record

14. FIELD NAME	15. POSITION FROM = 1 MEASURED IN Bytes <small>(e.g., bits, bytes)</small>	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
V Component	1	5	Bytes	F5.1	North/South velocity component in cm/sec. North is positive
U Component	6	5	Bytes	F5.1	East/West velocity component in cm/sec. East is positive
Speed	11	5	Bytes	F5.1	Current scalar speed in cm/sec.
Direction	16	5	Bytes	F5.0	Current direction in degrees with magnetic correction added.
V Component	21	5	Bytes	F5.1	As above
U Component	26	5	Bytes	F5.1	
Speed	31	5	Bytes	F5.1	
Direction	36	5	Bytes	F5.0	
V Component	41	5	Bytes	F5.1	As above
U Component	46	5	Bytes	F5.1	
Speed	51	5	Bytes	F5.1	
Direction	56	5	Bytes	F5.0	
V Component	61	5	Bytes	F5.1	As above
U Component	66	5	Bytes	F5.1	
Speed	71	5	Bytes	F5.1	
Direction	76	5	Bytes	F5.0	
Record Type Sequence No.	81	2	Bytes	I2	Always '11'
Meter Number	83	4	Bytes	A4	Individual identification number for each meter

NO. IS 76-1355

INSTITUTION U. OF RHODE ISLAND

NO. TR TR-0105

VESSEL R/V TRIDENT

DATES 3/14/72 TO 3/16/72

CRUISE GSO. 105/106/107/108

MARSDEN ~~002~~ (0+N, 10+W)

1 STATION

858 V COMPONENTS (NORTH) OF CURRENT

858 U COMPONENTS (EAST) OF CURRENT

~~858~~ ~~MEMORANDUM~~

~~858~~ ~~MEMORANDUM~~

858  
2511  
3369

301 (0+S, 10+W)

3 STATIONS

2511 V COMPONENTS (NORTH) OF CURRENT

2511 U COMPONENTS (EAST) OF CURRENT

ORIGINATOR TAPE 9423

USER TAPE 4234 (13,NL)

DATA DOCUMENTATION FORM

TR-0105

NOAA FORM 24-13  
721

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.

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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			
Data Archives Graduate School of Oceanography University of Rhode Island Kingston, RI 02881			
2. EXPEDITION, PROJECT, OR PROGRAM DURING WHICH DATA WERE COLLECTED		3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT	
"Atlantic Equatorial Current" Project		GSO 105/106/107/108	
4. PLATFORM NAME(S)	5. PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.)	6. PLATFORM AND OPERATOR NATIONALITY(IES)	
		PLATFORM	OPERATOR
R/V Trident	Ship	U.S.A.	U.S.A.
7. DATES		FROM: MO, DAY, YR	TO: MO, DAY, YR
		3/14/72	3/16/72
8. ARE DATA PROPRIETARY? <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES		11. PLEASE DARKEN ALL MARSDEN SQUARES IN WHICH ANY DATA CONTAINED IN YOUR SUBMISSION WERE COLLECTED.	
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 checked="" 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)  Edwin McB. Williams (401) 792-6285			

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
Instrument Depth	Meters	Current Meter	Corrected Depth	N/A (not applicable)
Latitude	Degrees, Minutes, Tenths of Minutes, North or South.	N/A	N/A	N/A
Longitude	Degrees, Minutes, Tenths of Minutes, East or West.	N/A	N/A	N/A
Magnetic Variation	Degrees and Direction	N/A	N/A	N/A
Water Depth	Meters	N/A	Corrected Depth	N/A
Start Time (GMT)	Year Month Day Hour Minute	Gregorian Calendar	N/A	N/A
Sample Interval	Minutes	N/A	N/A	N/A
# Samples	Total number of samples in data records.	N/A	N/A	N/A
Meter Type		EG & G Model A - 100 EG & G Model A - 102 EG & G Model A - 850A VACM - Vector Averaging Current Meter, made by AMF Incorporated, Alexandria, VA	N/A	N/A
Instrument #	Alpha-numeric Desig.	-----	-----	-----

## B. SCIENTIFIC CONTENT (CONT'D)

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
Variables: N	N = North/South velocity component in cm/sec North being positive.		List of variables, stored in order of appearance in each data cycle. Commas separate the possible abbreviations listed previously.	
E	E = East/West velocity component in cm/sec East being positive.			
S	S = Scalar Speed in cm/sec.			
D	D = Total direction in degrees (corrected magnetically)			
C	C = Compass reading in degrees			
V	V = Vane reading in degrees			
T	T = Time consisting of year, month, hour, min. sec. as described in free format label records.			
Temp	Temperature in °C			



B. SCIENTIFIC CONTENT (CONT'D)

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
<p>Format</p>	<p>R = Rotor Count</p> <p>Specifications which apply to those variables stored in data records.</p>			

C. DATA FORMAT

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

ORIGINATOR TAPE

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

See technical report noted in section B (above).

2. GIVE BRIEF DESCRIPTION OF FILE ORGANIZATION

File organization is as shown on URI letter To: E. McB. Williams; From: William P. Kramer, 4 June 1976, attached.

Note: Individual current meters are given a U.R.I. Institutional number - (e.g, GS041, GS042 etc. - see first two DSN= of Tape AQ3CM4)

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

4. RESPONSIBLE COMPUTER SPECIALIST: William P. Kramer (401) 792-6108  
NAME AND PHONE NUMBER Edwin McB. Williams (401) 792-6285  
ADDRESS GSO/URI, Kingston, R.I. 02881

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</p> <p><input type="checkbox"/> OCTAL 17</p> <p>Not known <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 KEY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER)</p> <p>DSN = AQ3CM4 (Standard Label)</p> <p>GSO/URI, Data Archives</p> <p>Current Meter Data</p> <p>TAPE # 9423</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>8000</p> <p>13. LENGTH OF BYTES IN BITS</p> <p>8</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

Type I records are header text records which precede each meter. Each station contains ten (10) header records sequenced by record number (1 thru 10) in bytes 85-86.

Type II records are data records and are identified by a record type "11" in bytes 85-86.

2. GIVE BRIEF DESCRIPTION OF FILE ORGANIZATION

File contains three (3) meter plants consisting of 86 byte records.

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

4. RESPONSIBLE COMPUTER SPECIALIST:

NAME AND PHONE NUMBER DSF & I Branch 634-7505  
 ADDRESS NODC

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 checked="" 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 type="checkbox"/> ODD <input type="checkbox"/> EVEN	<p>11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME LABEL SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER)</p> <p>Napis Files PJT Vol II                  Tape #4234                  Label=(<del>13</del>,NL)      LRECL=86                                                       RECFM=FB</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                  6400</p> <p>13. LENGTH OF BYTES IN BITS                  6</p>

RECORD FORMAT DESCRIPTION

RECORD NAME Type I (Header) Records

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN Bytes <small>(e.g., bits, bytes)</small>	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
<u>Record #1</u>					
Project Title	18	16	Bytes	16A1	
Investigators	55	24	Bytes	24A1	List of principal investigators
Record Number	81	2	Bytes	I2	Always '01'
Meter Number	83	4	Bytes	A4	Individual identification number for each meter
<u>Record #2</u>					
GSO Sequence Number	17	8	Bytes	8A1	
Mooring Number and Type	44	16	Bytes	16A1	URI mooring number and type of mooring
Record Number	81	2	Bytes	I2	Always '02'
Meter Number	83	4	Bytes	A4	
<u>Record #3</u>					
Meter Type	13	4	Bytes	A4	
Instrument Number	31	4	Bytes	A4	
Instrument Depth	37	6	Bytes	F6.1	Corrected depth in meters
Record Number	81	2	Bytes	I2	Always '03'
Meter Number	83	4	Bytes	A4	

RECORD FORMAT DESCRIPTION

RECORD NAME Type I (Header) Records Continued

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN Bytes (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
<u>Record #4</u>					
Latitude Degrees	6	4	Bytes	I4	Whole Degrees
Latitude Minutes	11	5	Bytes	F5.1	Minutes and tenths
Latitude Hemisphere	17	1	Bytes	A1	'N' or 'S'
Longitude Degrees	25	4	Bytes	I4	Whole Degrees
Longitude Minutes	30	5	Bytes	F5.1	Minutes and tenths
Longitude Hemisphere	36	1	Bytes	A1	'E' or 'W'
Magnetic Variation	49	4	Bytes	I4	Absolute value of applied magnetic variation in whole degrees
Magnetic Direction	54	1	Bytes	A1	Direction of magnetic variation 'E' or 'W'
Water Depth	75	6	Bytes	F6.1	Water depth in corrected meters
Record Number	81	2	Bytes	I2	Always '04'
Meter Number	83	4	Bytes	A4	
<u>Record #5</u>					
Start Year	18	4	Bytes	I4	} All values in G.M.T.
Start Month	23	2	Bytes	I2	
Start Day	26	2	Bytes	I2	
Start Hour	31	2	Bytes	I2	
Start Minute	34	2	Bytes	I2	
Sample Interval	53	5	Bytes	F5.1	Numeric designation of the sample interval
Sample Interval Units	59	4	Bytes	A4	Time designation of the sample interval, i.e. 'MINS'

RECORD NAME Type I (Header) Records Continued

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN Bytes <i>(e.g., bits, bytes)</i>	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
<u>Record #5 Cont.</u>					
Sample Count	74	4	Bytes	I4	Total number of samples stored in the data records
Record Number	81	2	Bytes	I2	Always '05'
Meter Number	83	4	Bytes	A4	
<u>Record #6</u>					
Variables List	13	64	Bytes	64A1	A list of variables stored in order of appearance in each data cycle. Commas separate the possible abbreviations below.  N = North/South Comp. E = East/West Comp. S = Scalar Speed D = Direction C = Compass V = Vane T = Time R = Rotor Count Temp = Temperature
Record Number	81	2	Bytes	I2	Always '06'
Meter Number	83	4	Bytes	A4	
<u>Record #7</u>					
Format	11	64	Bytes	16A4	The format specification which applies to those variables indicated in record no. 6 and stored in the data records
Record Number	81	2	Bytes	I2	Always '07'
Meter Number	83	4	Bytes	A4	

RECORD FORMAT DESCRIPTION

RECORD NAME Type I (Header) Records Continued

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN Bytes (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
<u>Records #8, 9, 10</u>					
Text	1	80	Bytes	20A4	Any information which describes the meter and/or the station.
Record Number	81	2	Bytes	I2	'08', '09' or '10'
Meter Number	83	4	Bytes	A4	

RECORD FORMAT DESCRIPTION

RECORD NAME Type II (Data) Record

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN Bytes (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
V Component	1	6	Bytes	F6.2	North/South velocity component in cm/sec. North is positive
U Component	7	6	Bytes	F6.2	East/West velocity component in cm/sec. East is positive
V Component	13	6	Bytes	F6.2	As above
U Component	19	6	Bytes	F6.2	
V Component	25	6	Bytes	F6.2	As above
U Component	31	6	Bytes	F6.2	
V Component	37	6	Bytes	F6.2	As above
U Component	43	6	Bytes	F6.2	
V Component	49	6	Bytes	F6.2	As above
U Component	55	6	Bytes	F6.2	
Component	61	6	Bytes	F6.2	As above
U Component	67	6	Bytes	F6.2	
Blank	73	8	Bytes	8X	
Record Type Sequence No.	81	2	Bytes	I2	Always '11'
Meter Number	83	4	Bytes	A4	Individual identification number for each meter



DDF-A:1:13

DATA DOCUMENTATION FORM

TR-0106

IA FORM 24-13  
(2)

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

<b>1. NAME AND ADDRESS OF INSTITUTION, LABORATORY, OR ACTIVITY WITH WHICH SUBMITTED DATA ARE ASSOCIATED</b>  Data Archives Graduate School of Oceanography University of Rhode Island Kingston, RI 02881											
<b>2. EXPEDITION, PROJECT, OR PROGRAM DURING WHICH DATA WERE COLLECTED</b>  MODE		<b>3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT</b>  GSO 98/101									
<b>4. PLATFORM NAME(S)</b>  R/V. Trident	<b>5. PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.)</b>  Ship	<b>6. PLATFORM AND OPERATOR NATIONALITY(IES)</b> <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>PLATFORM</th> <th>OPERATOR</th> </tr> <tr> <td>U.S.A.</td> <td>U.S.A.</td> </tr> </table>	PLATFORM	OPERATOR	U.S.A.	U.S.A.	<b>7. DATES</b> <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>FROM: MO/DAY/YR</th> <th>TO: MO/DAY/YR</th> </tr> <tr> <td>10/26/71</td> <td>10/28/71</td> </tr> </table>	FROM: MO/DAY/YR	TO: MO/DAY/YR	10/26/71	10/28/71
PLATFORM	OPERATOR										
U.S.A.	U.S.A.										
FROM: MO/DAY/YR	TO: MO/DAY/YR										
10/26/71	10/28/71										
<b>8. ARE DATA PROPRIETARY?</b> <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES  IF YES, WHEN CAN THEY BE RELEASED FOR GENERAL USE? YEAR _____ MONTH _____	<b>11. PLEASE DARKEN ALL MARSDEN SQUARES IN WHICH ANY DATA CONTAINED IN YOUR SUBMISSION WERE COLLECTED.</b>  GENERAL AREA  										
<b>9. ARE DATA DECLARED NATIONAL PROGRAM (DNP)?</b> (I.E., SHOULD THEY BE INCLUDED IN WORLD DATA CENTERS HOLDINGS FOR INTERNATIONAL EXCHANGE?)  <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES <input type="checkbox"/> PART (SPECIFY BELOW)	<b>10. PERSON TO WHOM INQUIRIES CONCERNING DATA SHOULD BE ADDRESSED WITH TELEPHONE NUMBER (AND ADDRESS IF OTHER THAN IN ITEM-1)</b>  Edwin McB. Williams (401) 792-6285										

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
Instrument Depth	Meters	Current Meter	Corrected Depth	N/A (not applicable)
Latitude	Degrees, Minutes, Tenths of Minutes, North or South.	N/A	N/A	N/A
Longitude	Degrees, Minutes, Tenths of Minutes, East or West.	N/A	N/A	N/A
Magnetic Variation	Degrees and Direction	N/A	N/A	N/A
Water Depth	Meters	N/A	Corrected Depth	N/A
Start Time (GMT)	Year Month Day Hour Minute	Gregorian Calendar	N/A	N/A
Sample Interval	Minutes	N/A	N/A	N/A
# Samples	Total number of samples in data records.	N/A	N/A	N/A
Meter Type		EG & G Model A - 100 EG & G Model A - 102 EG & G Model A - 850A VACM - Vector Averaging Current Meter, made by AMF Incorporated, Alexandria, VA	N/A	N/A
Instrument #	Alpha-numeric Desig.	-----	-----	-----

B. SCIENTIFIC CONTENT (CONT'D)

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
<p>Variables: N</p> <p>E</p> <p>S</p> <p>D</p> <p>C</p> <p>V</p> <p>T</p> <p>Temp</p>	<p>N = North/South velocity component in cm/sec North being positive.</p> <p>E = East/West velocity component in cm/sec East being positive.</p> <p>S = Scalar Speed in cm/sec.</p> <p>D = Total direction in degrees (corrected magnetically)</p> <p>C = Compass reading in degrees</p> <p>V = Vane reading in degrees</p> <p>T = Time consisting of year, month, hour, min. sec. as described in free format label records.</p> <p>Temperature in °C</p>		<p>List of variables, stored in order of appearance in each data cycle. Commas separate the possible abbreviations listed previously.</p>	

B. SCIENTIFIC CONTENT (CONT'D)

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
<p>Format</p>	<p>R = Rotor Count</p> <p>Specifications which apply to those variables stored in data records.</p>			

C. DATA FORMAT

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

ORIGINATOR TAPE

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

See technical report noted in section B (above).

2. GIVE BRIEF DESCRIPTION OF FILE ORGANIZATION

File organization is as shown on URI letter To: E. McB. Williams; From: William P. Kramer, 4 June 1976, attached.

Note: Individual current meters are given a U.R.I. Institutional number - (e.g, GS041, GS042 etc. - see first two DSN= of Tape AQ3CM4)

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

4. RESPONSIBLE COMPUTER SPECIALIST: William P. Kramer (401) 792-6108  
NAME AND PHONE NUMBER Edwin McB. Williams (401) 792-6285  
ADDRESS GSO/URI, Kingston, R.I. 02881

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>Not known <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 KEY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER)</p> <p>DSN = AQ3CM4 (Standard Label)</p> <p>GSO/URI, Data Archives</p> <p>Current Meter Data</p> <p>TAPE # 9423</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>8000</p> <p>13. LENGTH OF BYTES IN BITS</p> <p>8</p>

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  
 AND THE METHOD OF IDENTIFYING EACH RECORD TYPE

Type I records are header text records which precede each meter.  
 Each station contains ten (10) header records sequenced by record number  
 (1 thru 10) in bytes 85-86.

Type II records are data records and are identified by a record  
 type "11" in bytes 85-86.

2. GIVE BRIEF DESCRIPTION OF FILE ORGANIZATION

File contains three (3) meter plants consisting of 86 byte records.

ATTRIBUTES AS EXPRESSED IN

- PL-1       ALGOL       COBOL  
 FORTRAN       \_\_\_\_\_ LANGUAGE

4. RESPONSIBLE COMPUTER SPECIALIST:

NAME AND PHONE NUMBER DSF & I Branch 634-7505  
 ADDRESS NODC

COMPLETE THIS SECTION IF DATA ARE ON MAGNETIC TAPE

<p>5. RECORDING MODE</p> <p><input type="checkbox"/> BCD      <input type="checkbox"/> BINARY  <input type="checkbox"/> ASCII      <input checked="" type="checkbox"/> EBCDIC  <input type="checkbox"/> _____</p>	<p>9. LENGTH OF INTER-RECORD GAP (IF KNOWN) <input checked="" type="checkbox"/> 3/4 INCH  <input type="checkbox"/> _____</p>
<p>6. NUMBER OF TRACKS (CHANNELS)</p> <p><input type="checkbox"/> SEVEN  <input checked="" type="checkbox"/> NINE  <input type="checkbox"/> _____</p>	<p>10. END OF FILE MARK</p> <p><input type="checkbox"/> OCTAL 17  <input type="checkbox"/> _____</p>
<p>7. PARITY</p> <p><input type="checkbox"/> ODD  <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>Napis Files PJT Vol. II                  Tape #4234                  Label=(M,NL)      LRECL=86                                                   RECFM=FB</p>
<p>8. DENSITY</p> <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>	<p>12. PHYSICAL BLOCK LENGTH IN BYTES                  6400</p> <p>13. LENGTH OF BYTES IN BITS                  6</p>

RECORD FORMAT DESCRIPTION

RECORD NAME Type I (Header) Records

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN Bytes (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
<u>Record #1</u>					
Project Title	18	16	Bytes	16A1	
Investigators	55	24	Bytes	24A1	List of principal investigators
Record Number	81	2	Bytes	I2	Always '01'
Meter Number	83	4	Bytes	A4	Individual identification number for each meter
<u>Record #2</u>					
GSO Sequence Number	17	8	Bytes	8A1	
Mooring Number and Type	44	16	Bytes	16A1	URI mooring number and type of mooring
Record Number	81	2	Bytes	I2	Always '02'
Meter Number	83	4	Bytes	A4	
<u>Record #3</u>					
Meter Type	13	4	Bytes	A4	
Instrument Number	31	4	Bytes	A4	
Instrument Depth	37	6	Bytes	F6.1	Corrected depth in meters
Record Number	81	2	Bytes	I2	Always '03'
Meter Number	83	4	Bytes	A4	

RECORD FORMAT DESCRIPTION

RECORD NAME Type I (Header) Records Continued

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN Bytes (0-A = bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
<u>Record #4</u>					
Latitude Degrees	6	4	Bytes	I4	Whole Degrees
Latitude Minutes	11	5	Bytes	F5.1	Minutes and tenths
Latitude Hemisphere	17	1	Bytes	A1	'N' or 'S'
Longitude Degrees	25	4	Bytes	I4	Whole Degrees
Longitude Minutes	30	5	Bytes	F5.1	Minutes and tenths
Longitude Hemisphere	36	1	Bytes	A1	'E' or 'W'
Magnetic Variation	49	4	Bytes	I4	Absolute value of applied magnetic variation in whole degrees
Magnetic Direction	54	1	Bytes	A1	Direction of magnetic variation 'E' or 'W'
Water Depth	75	6	Bytes	F6.1	Water depth in corrected meters
Record Number	81	2	Bytes	I2	Always '04'
Meter Number	83	4	Bytes	A4	
<u>Record #5</u>					
Start Year	18	4	Bytes	I4	} All values in G.M.T.
Start Month	23	2	Bytes	I2	
Start Day	26	2	Bytes	I2	
Start Hour	31	2	Bytes	I2	
Start Minute	34	2	Bytes	I2	
Sample Interval	53	5	Bytes	F5.1	Numeric designation of the sample interval
Sample Interval Units	59	4	Bytes	A4	Time designation of the sample interval, i.e. 'MINS'



RECORD FORMAT DESCRIPTION

RECORD NAME Type I (Header) Records Continued

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN Bytes <small>(e.g., bits, bytes)</small>	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
<u>Record #5 Cont.</u>					
Sample Count	74	4	Bytes	I4	Total number of samples stored in the data records
Record Number	81	2	Bytes	I2	Always '05'
Meter Number	83	4	Bytes	A4	
<u>Record #6</u>					
Variables List	13	64	Bytes	64A1	A list of variables stored in order of appearance in each data cycle. Commas separate the possible abbreviations below.  N = North/South Comp. E = East/West Comp. S = Scalar Speed D = Direction C = Compass V = Vane T = Time R = Rotor Count Temp= Temperature
Record Number	81	2	Bytes	I2	Always '06'
Meter Number	83	4	Bytes	A4	
<u>Record #7</u>					
Format	11	64	Bytes	16A4	The format specification which applies to those variables indicated in record no. 6 and stored in the data records
Record Number	81	2	Bytes	I2	Always '07'
Meter Number	83	4	Bytes	A4	

RECORD FORMAT DESCRIPTION

RECORD NAME Type I (Header) Records Continued

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN Bytes <small>(0-8, bits, bytes)</small>	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
Records #8, 9, 10					
Text	1	80	Bytes	20A4	Any information which describes the meter and/or the station.
Record Number	81	2	Bytes	I2	'08', '09' or '10'
Meter Number	83	4	Bytes	A4	

**RECORD FORMAT DESCRIPTION**

**RECORD NAME** Type II (Data) Record

FIELD NAME	15. POSITION FROM - 1 MEASURED IN Bytes (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
V Component	1	6	Bytes	F6.2	North/South velocity component in cm/sec. North is positive
U Component	7	6	Bytes	F6.2	East/West velocity component in cm/sec. East is positive
V Component	13	6	Bytes	F6.2	As above
U Component	19	6	Bytes	F6.2	As above
V Component	25	6	Bytes	F6.2	As above
U Component	31	6	Bytes	F6.2	As above
V Component	37	6	Bytes	F6.2	As above
U Component	43	6	Bytes	F6.2	As above
V Component	49	6	Bytes	F6.2	As above
U Component	55	6	Bytes	F6.2	As above
V Component	61	6	Bytes	F6.2	As above
U Component	67	6	Bytes	F6.2	As above
Blank	73	8	Bytes	8X	
Record Type Sequence No.	81	2	Bytes	I2	Always '11'
Meter Number	83	4	Bytes	A4	Individual identification number for each meter

NARIS 76-1355 INSTITUTION U OF RHODE ISLAND

~~FR 77~~ TR-0106

VESSEL TRIDENT DATES 10/26/71 TO 10/28/71

MARSDEN 079 1 STATION (CURRENT AT DEPTH)  
(20+N, 60+W)

1728 V COMPONENTS (NORTH)

1728 U COMPONENTS (EAST)

080 1 STATION (CURRENT AT DEPTH)  
(20+N, 70+W)

1753 V COMPONENTS (NORTH)

1728 U COMPONENTS (EAST)

1720  
1753  
34

ORIGINATOR TAPE 9423

172

USER TAPE 4234 (14, NL)

022-1

#2 001544

ANSE 013839

- 2995

2418

(C 4048)

120/4800, F022

#1 UØ2Ø660

TR 53-60, 74-75, 96, 107-112, 115-117, 119-123, 125,  
127-128, 134-135, 146-153

162,089

accession no: 76-1355  
no check sum

Password:

accNo	fileA	refNo	proj	inst	ship	startDate	cruise	catId
7601355	L105	BL2354	9999	3130	316N	1970/06/01	NULL	299815
7601355	L105	TR0102	9999	3130	31TR	1969/02/12	RENEWAL	299816
7601355	L105	TR0103	9999	3130	32B2	1970/10/09	ROME PT	299817
7601355	L105	TR0104	9999	3130	31TR	1971/05/08	GULF ST	299818
7601355	L105	TR0105	9999	3130	31TR	1972/03/14	ATLAN EC	299819
7601355	L105	TR0106	9999	3130	31TR	1971/10/26	MODE	299820

(6 rows affected)

Password:

accNo	fleA	refNo	ship	staCnt	recCnt	startDate	endDate
7601355	L105	BL2354	316N	0	0	70/06/01	70/06/01
7601355	L105	TR0102	31TR	3061	0	69/02/12	69/02/15
7601355	L105	TR0103	32B2	11317	0	70/10/09	71/03/17
7601355	L105	TR0104	31TR	6988	0	71/05/08	71/05/13
7601355	L105	TR0105	31TR	3369	0	72/03/14	72/03/16
7601355	L105	TR0106	31TR	3481	0	71/10/26	71/10/28

(6 rows affected)