

DDF B: 3: 10

83NODC 053-02

ACCESSION NUMBER

8300030

TR9138-TR9188
F005

DATA DOCUMENTATION FORM

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-R2631

This form should accompany all data submissions to NODC. Section A, Originator Identification, must be completed when the data are submitted. It is highly desirable for NODC to also receive the remaining pertinent information at that time. This may be most easily accomplished by attaching reports, publications, or manuscripts which are readily available describing data collection, analysis, and format specifics. Readable, handwritten submissions are acceptable in all cases. All data shipments should be sent to the above address.

A. ORIGINATOR IDENTIFICATION

THIS SECTION MUST BE COMPLETED BY DONOR FOR ALL DATA TRANSMITTALS

1. NAME AND ADDRESS OF INSTITUTION, LABORATORY, OR ACTIVITY WITH WHICH SUBMITTED DATA ARE ASSOCIATED NOAA/NOS N/OMS 131 Estuarine and Ocean Physics Branch Circulation Section 6001 Executive Blvd., Rockville, MD 20852			
2. EXPEDITION, PROJECT, OR PROGRAM DURING WHICH DATA WERE COLLECTED OPR-N805-BR-81 Circulatory Survey Columbia River Estuary, Oregon		3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT	
4. PLATFORM NAME(S) NOAA Ship McARTHUR	5. PLATFORM TYPE(S) (E.G. SHIP, BUOY, ETC.) Current = Std. Nos moorings Met. = fixed platform CTD = vertical casts	6. PLATFORM AND OPERATOR NATIONALITY(IES)	7. DATES
		PLATFORM OPERATOR	FROM: MO/DAY/YR TO: MO/DAY/YR
USA		USA 4/29/81 12/4/81	
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) N/OMS 131 Chief, Circulation Section 301-443-8501			

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
<u>Current Data</u> Velocity Direction Temperature Conductivity Pressure	cm/sec Degrees True Degrees Cent. mmho/cm hg/cm ²	Androna RCM 4 Current Meters		Temp, Cond, press, speed, and direction were converted from internal machine units to engineering units using std. formulas. Data are all sampled at 10-minute intervals.
<u>Meteorological Data</u> Velocity Direction Temperature Pressure Wind Stress	meters/sec Degrees true Degrees Cent. mbars hg/m ²	Androna Meteorological Package and Data Logger		
<u>CTD Data</u> Depth Temp Salinity Sigma-T	meters Degrees Cent. ‰	Plessey 9041		

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

<p><u>Current Data</u> NOBC File Type 005</p> <hr/> <p>Meteorological Data NOBC File Type 091</p> <hr/> <p>CTD NOBC File Type 022</p>

2. GIVE BRIEF DESCRIPTION OF FILE ORGANIZATION

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 _____
ADDRESS _____

COMPLETE THIS SECTION IF DATA ARE ON MAGNETIC TAPE

<p>5. RECORDING MODE</p> <table style="width: 100%;"> <tr> <td><input type="checkbox"/> BCD</td> <td><input type="checkbox"/> BINARY</td> </tr> <tr> <td><input checked="" type="checkbox"/> ASCII</td> <td><input type="checkbox"/> EBCDIC</td> </tr> <tr> <td colspan="2"><input type="checkbox"/> _____</td> </tr> </table>	<input type="checkbox"/> BCD	<input type="checkbox"/> BINARY	<input checked="" type="checkbox"/> ASCII	<input type="checkbox"/> EBCDIC	<input type="checkbox"/> _____		<p>9. LENGTH OF INTER-RECORD GAP (IF KNOWN) <input type="checkbox"/> 3/4 INCH <input type="checkbox"/> _____</p>		
<input type="checkbox"/> BCD	<input type="checkbox"/> BINARY								
<input checked="" type="checkbox"/> ASCII	<input type="checkbox"/> EBCDIC								
<input type="checkbox"/> _____									
<p>6. NUMBER OF TRACKS (CHANNELS)</p> <table style="width: 100%;"> <tr> <td><input type="checkbox"/> SEVEN</td> </tr> <tr> <td><input checked="" type="checkbox"/> NINE</td> </tr> <tr> <td><input type="checkbox"/> _____</td> </tr> </table>	<input type="checkbox"/> SEVEN	<input checked="" type="checkbox"/> NINE	<input type="checkbox"/> _____	<p>10. END OF FILE MARK <input checked="" type="checkbox"/> OCTAL 17 <input type="checkbox"/> _____</p>					
<input type="checkbox"/> SEVEN									
<input checked="" type="checkbox"/> NINE									
<input type="checkbox"/> _____									
<p>7. PARITY</p> <table style="width: 100%;"> <tr> <td><input type="checkbox"/> ODD</td> </tr> <tr> <td><input checked="" type="checkbox"/> EVEN</td> </tr> </table>	<input type="checkbox"/> ODD	<input checked="" type="checkbox"/> EVEN	<p>11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME LAY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER)</p>						
<input type="checkbox"/> ODD									
<input checked="" type="checkbox"/> EVEN									
<p>8. DENSITY</p> <table style="width: 100%;"> <tr> <td><input type="checkbox"/> 200 BPI</td> <td><input checked="" type="checkbox"/> 1600 BPI</td> </tr> <tr> <td><input type="checkbox"/> 556 BPI</td> <td></td> </tr> <tr> <td><input type="checkbox"/> 800 BPI</td> <td></td> </tr> <tr> <td colspan="2"><input type="checkbox"/> _____</td> </tr> </table>	<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 4500 characters = 2250 bytes</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>13. LENGTH OF BYTES IN BITS 18 bits / byte</p>								

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 (✓)	
Aandena Current Meter	April 1982		NRCC	✓					
Aandena Metro. Package	April 1981		NRCC	✓					
Plessey 9041	Sept 1981		NRCC	✓					

NODC FORMAT FOR CURRENT DATA

Data is written in blocks of 4500 characters (except last block, which is ≤ 4500 characters).

FILE TYPE
 Creation Date of Original Tape
RECORD TYPE
STATION NUMBER

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45													
005				1																																																					
005				1																																																					
005				1																																																					
005				2																																																					
005				3																																																					
005				3																																																					

- Depth in meters.
- Direction in degrees true.
- Speed in cm/sec.
- Temperature in degrees Celsius.
- Pressure in kg/cm².
- Conductivity in mmho/cm.

1 Indicates that data point was edited

REFERENCE NO.

83NODCO-01

LETTER TRANSMITTING DATA

DATA AS LISTED BELOW WERE FORWARDED TO YOU BY (Check):

- ORDINARY MAIL AIR MAIL
- REGISTERED MAIL EXPRESS
- OBL (Give number) _____

TO:

Director
NODC
D7
Page Building 1

DATE FORWARDED

February 7, 1983

NUMBER OF PACKAGES

NOTE: A separate transmittal letter is to be used for each type of data, as tidal data, seismology, geomagnetism, etc. State the number of packages and include an executed copy of the transmittal letter in each package. In addition the original and one copy of the letter should be sent under separate cover. The copy will be returned as a receipt. This form should not be used for correspondence or transmitting accounting documents.

The data listed below were obtained from the 1981 Columbia River Estuary Circulation Survey, processed and formatted into NODC format, and transmitted to NODC on the date noted above.

- Two Current meter tapes
- Supporting documentation

How #CRCUR B

The two tapes enclosed, CRCUR1 and CRCUR2, are being sent to replace the original current meter tapes which you returned to us.

FROM: (Signature) *Charles R. Muirhead*
Charles R. Muirhead, Chief, Circulation Section

RECEIVED THE ABOVE
(Name, Division, Date)

Christ E. Green
Data Acquisition & Management
Branch
February 14, 1983

Return receipted copy to:

Circulation Section, N/OMS131
Office of Oceanography & Marine Services
WSC-1, Rm. 419
6001 Executive Blvd.
Rockville, MD 20852

ERROR CORRECTION DOCUMENTATION FORM

DATE:

TO: OC12

FROM: OC13

SUBJECT: Error Correction in Processing of Data Set - Accession 18300030

- 1) File Type: F005
- 2) Project Ident.: [NOS Columbia River Est. Circ. Survey]
- 3) Track Nos.: TR9139-F9

I. Error Corrections as reported to Principal Investigator:

Error

Correction Completed (Check)

II. Additional error corrections:

Error

Correction Completed (Check)

III. Processor Name: _____

TAPE ASSIGNMENT SHEET

ACCESSION NO.: 8300030

TRACK NO(s): 779139-89

Type of Tape	Tape Number	Label	LRECL	BLKSIZE	RECFM	Remarks
Originator	CRCURB	NL	45	4500	9-t 1600 BPI ASCII	
Duplicate	DF879	SL	45	4500	9-t 1600 BPI ASCII	
Reformatted						
First User						
Final User						

ACCESSION/TRACK # 830030/TR9139-89

Step	Completion Date/Init.		Tape # or DSN	# of Files	BLKSIZE	LRECL	# RECORDS
ORIGINATOR TAPE	3/25/83	8100	CRCURB	51	4500	45	
QUADI/SCAN TAPE	3/25/83	8100	08879	51	4500	45	
ASSIGNED FOR PROCESS.							
DDF EVALUATION							
QUALITY REVIEW							
PRELIMINARY DATA SORT							
PRELIMINARY MULCHEK							
FIRST USER TAPE							
WORK DISK FILE							
FINAL USER TAPE							
FINAL MULCHEK							
EDITED DISK FILE							
DATA SET "FINALIZED"							

ERROR CORRECTION DOCUMENTATION FORM

DATE:

TO: OC12

FROM: OC13

DDF

B 3: 14

SUBJECT: Error Correction in Processing of Data Set - Accession # 8300030

- 1) File Type: F005
- 2) Project Ident.: [NDS Columbia River Estuary Circ. Survey]
- 3) Track Nos.: TR 9088-9138

I. Error Corrections as reported to Principal Investigator:

Error

Correction Completed (Check)

II. Additional error corrections:

Error

Correction Completed (Check)

See attached

III. Processor Name:

Mary Lewis

8300030
TR 9086-9137
FO05

Errors

1. negative conductivity values
2. conductivity values below 1.00 - deleted.
3. Pressure and conductivity values of zero (0) were deleted.
4. Blank reads deleted.
5. Pressure values less than 1.00 were deleted.

Step	Completion Date/Init.		Tape # or DSN	# of Files	BLKSIZE	LRECL	# RECORDS
GENERATOR TAPE	3/28/83	3/28/83	CRCURA	52	4500	45	
DI/SCAN TAPE	3/28/83	3/28/83	08878	52	4500	45	
SIGNED FOR PROCESS.							
EVALUATION	4/4/83						
QUALITY REVIEW	4/4/83						
ELIMINARY DATA-SORT							
ELIMINARY MULCHEK	4/4/83		DNODC * FOO5 T9086				12
FIRST USER TAPE							
WORK DISK FILE	4/1/83		DNODC * MARY.T9086/FOO5				128,500
FINAL USER TAPE :							
FINAL MULCHEK	4/5/83		DNODC * FOO5 T9086.				12
EDITED DISK FILE							
DATA SET "FINALIZED"							

TAPE ASSIGNMENT SHEET

ACCESSION NO.: 8300030

TRACK NO(s): TR9086-9138

Type of Tape	Tape Number	Label	I RECL	BLKSIZE	RECFM	Remarks
Originator	CRCURA	NL	45	4500	9-tu 1600 BPI ASCII	
Duplicate	08878	SL	45	4500	9-tu 1600 BPI ASCII	128,500
Reformatted						
First User DISK	DNDX*MARY.T9086/F005					125,679
Final User						

ERROR CORRECTION DOCUMENTATION FORM

DATE:

TO: OC12

FROM: OC13

SUBJECT: Error Correction in Processing of Data Set - Accession # 8300030

- 1) File Type: F005
- 2) Project Ident.: [NDS Columbia River Estuary Circ. Burgey]
- 3) Track Nos.: TR 9088-9137

I. Error Corrections as reported to Principal Investigator:

Error

Correction Completed (Check)

II. Additional error corrections:

Error

Correction Completed (Check)

See attached

III. Processor Name:

Mary Lewis

87000 30
TR 9086-9137
FO05

ERRORS

1. negative conductivity values
2. conductivity values below 1.00 - deleted.
3. Pressure and conductivity values of zero (0) were deleted.
4. Blank records deleted.
5. Pressure values less than 1.00 were deleted.

Step	Completion Date/Init.		Tape # or DSN	# of Files	BLKSIZE	LRECL	# RECORDS
GENERATOR TAPE	3/25/83	Q120	CRCUR A	52	4500	45	
LOAD/SCAN TAPE	3/25/83	Q120	08878	52	4500	45	
SIGNED FOR PROCESS.							
FILE EVALUATION	4/4/83						
QUALITY REVIEW	4/4/83						
PRELIMINARY DATA SORT							
PRELIMINARY MULCHEK	4/4/83		DNODC * MARY T 9086.				12
FIRST USER TAPE							
WORK DISK FILE	4/1/83		DNODC * MARY T 9086 / F005				128,500
FINAL USER TAPE							
FINAL MULCHEK	4/5/83		DNODC * F005 T 9086.				12
EDITED DISK FILE							
DATA SET "FINALIZED"							

TAPE ASSIGNMENT SHEET

ACCESSION NO.: 8300030

TRACK NO(s): TR9086-9138

Type of Tape	Tape Number	Label	LRECL	BLKSIZE	RECFM	Remarks
Originator	CRCURA	NL	45	4500	9-tu 1600 BPI ASCII	
Duplicate	08878	SL	45	4500	9-tu 1600 BPI ASCII	128,500
Reformatted						
First User Disk	DNDDC*MARY.T9086/F005					125,679
Final User						

DATA DOCUMENTATION FORM

TR9086-9139

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

<p>1. NAME AND ADDRESS OF INSTITUTION, LABORATORY, OR ACTIVITY WITH WHICH SUBMITTED DATA ARE ASSOCIATED</p> <p>NOAA/NOS N/OMS 131 Estuarine and Ocean Physics Branch Circulation Section 6001 Executive Blvd., Rockville, MD 20852</p>			
<p>2. EXPEDITION, PROJECT, OR PROGRAM DURING WHICH DATA WERE COLLECTED</p> <p>OPR-N805-AR-81 Circulatory Survey Columbia River Estuary, Oregon</p>		<p>3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT</p>	
<p>4. PLATFORM NAME(S)</p> <p>NOAA Ship McARTHUR</p>	<p>5. PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.)</p> <p>Current = Std. NOS moorings mat. = fixed platform CTD = vertical casts</p>	<p>6. PLATFORM AND OPERATOR NATIONALITY(IIES)</p> <p>PLATFORM OPERATOR</p> <p>USA USA</p>	<p>7. DATES</p> <p>FROM: MO, DAY, YR TO: MO, DAY, YR</p> <p>4/29/81 12/4/81</p>
		<p>8. ARE DATA PROPRIETARY?</p> <p><input checked="" type="checkbox"/> NO <input type="checkbox"/> YES</p> <p>IF YES, WHEN CAN THEY BE RELEASED FOR GENERAL USE? YEAR MONTH</p>	
<p>9. ARE DATA DECLARED NATIONAL PROGRAM (DNP)? (I.E., SHOULD THEY BE INCLUDED IN WORLD DATA CENTERS HOLDINGS FOR INTERNATIONAL EXCHANGE?)</p> <p><input checked="" type="checkbox"/> NO <input type="checkbox"/> YES <input type="checkbox"/> PART (SPECIFY BELOW)</p>		<p>10. PERSON TO WHOM INQUIRIES CONCERNING DATA SHOULD BE ADDRESSED WITH TELEPHONE NUMBER (AND ADDRESS IF OTHER THAN IN ITEM-1)</p> <p>N/OMS 131 Chief, Circulation Section 301-443-8501</p>	

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.
<p><u>Current Data</u></p> <p>Velocity Direction Temperature Conductivity Pressure</p>	<p>cm/sec Degrees True Degrees Cent. mmho/cm kg/cm²</p>	<p>Aandrona RCM 4 Current Meters</p>		<p>Temp, Cond, press, speed, and direction were converted from internal machine units to engineering units using std formulas. Data are all sampled at 10-minute intervals.</p>
<p><u>Metreological Data</u></p> <p>Velocity Direction Temperature Pressure Wind Stress</p>	<p>meters/sec Degrees true Degrees Cent. mbars kg/m²</p>	<p>Aandrona Metreological Package and Data Logger</p>		
<p><u>CTD Data</u></p> <p>Depth Temp Salinity Sigma-T</p>	<p>meters Degrees Cent. ‰</p>	<p>Plessig 9041</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**

Current Data
NODC File Type 005

Metological Data
NODC File Type 091

CTD
NODC File Type 022

2. GIVE BRIEF DESCRIPTION OF FILE ORGANIZATION

[Empty box for description of file organization]

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

4. RESPONSIBLE COMPUTER SPECIALIST:

NAME AND PHONE NUMBER _____
 ADDRESS _____

COMPLETE THIS SECTION IF DATA ARE ON MAGNETIC TAPE

<p>5. RECORDING MODE</p> <p><input type="checkbox"/> BCD <input type="checkbox"/> BINARY <input checked="" type="checkbox"/> ASCII <input type="checkbox"/> EBCDIC <input type="checkbox"/> _____</p>	<p>9. LENGTH OF INTER-RECORD GAP (IF KNOWN) <input type="checkbox"/> 3/4 INCH <input type="checkbox"/> _____</p>
<p>6. NUMBER OF TRACKS (CHANNELS)</p> <p><input type="checkbox"/> SEVEN <input checked="" type="checkbox"/> NINE <input type="checkbox"/> _____</p>	<p>10. END OF FILE MARK</p> <p><input checked="" type="checkbox"/> OCTAL 17 <input type="checkbox"/> _____</p>
<p>7. PARITY</p> <p><input type="checkbox"/> ODD <input checked="" type="checkbox"/> EVEN</p>	<p>11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME LAY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER)</p>
<p>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 4500 characters = 2250 bytes</p> <p>13. LENGTH OF BYTES IN BITS 18 bits / byte</p>

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 (✓)	
Aanderaa Current Meter	April 1982		NRCC	✓					
Aanderaa Metro. Package	April 1981		NRCC	✓					
Plussay 9041	Sept 1981		NRCC	✓					

NODC FORMAT FOR CURRENT DATA

FILE TYPE	Creation Date of Original Tape			RECORD TYPE	STATION NUMBER
	Year	Month	Day		
005				1	1 ← LOCATION → , NOS, NOAA
005				1	2 CURRENT METER TYPE, S/N <small>Serial Number</small> , R/N <small>Reference Number</small>
005				1	3 FIRST JULIAN DAY, LAST JULIAN DAY, YEAR, SHIP, SHIP NAME
					Latitude Longitude <small>Sensor</small> Depth
					Deg Min Sec N/S Deg Min Sec E/W <small>Below Water</small> MLW Depth
005				2	
					Observed Time
					Year Month Day Hour Direction Speed Temperature Pressure Conductivity
005				3	

Data is written in blocks of 4500 characters (except last block, which is ≈4500 characters).

- Depth in meters.
- Direction in degrees true.
- Speed in cm/sec.
- Temperature in degrees Celsius.
- Pressure in kg/cm².
- Conductivity in mmho/cm.

1 Indicates that data point was edited

LETTER TRANSMITTING DATA

DATA AS LISTED BELOW WERE FORWARDED TO YOU
BY (Check):

- ORDINARY MAIL AIR MAIL
- REGISTERED MAIL EXPRESS
- GBL (Give number) _____

TO:

Director
NODC
D7
Page Building 1

DATE FORWARDED

February 7, 1983

NUMBER OF PACKAGES

1

NOTE: A separate transmittal letter is to be used for each type of data, as tidal data, seismology, geomagnetism, etc. State the number of packages and include an executed copy of the transmittal letter in each package. In addition the original and one copy of the letter should be sent under separate cover. The copy will be returned as a receipt. This form should not be used for correspondence or transmitting accounting documents.

The data listed below were obtained from the 1981 Columbia River Estuary Circulation Survey, processed and formatted into NODC format, and transmitted to NODC on the date noted above.

- Two Current meter tapes
- Supporting documentation

New #eRCURA

The two tapes enclosed, CRCUR1 and CRCUR2, are being sent to replace the original current meter tapes which you returned to us.

FROM: (Signature)

Charles R. Muirhead

Charles R. Muirhead, Chief, Circulation Section

RECEIVED THE ABOVE
(Name, Division, Date)

Return receipted copy to:

Circulation Section, N/OMS131
Office of Oceanography & Marine Services
WSC-1, Rm. 419
6001 Executive Blvd.
Rockville, MD 20852

Password:

accNo	flea	refNo	proj	inst	ship	startDate	cruise	catId
8300030	F005	TR9086	9999	31J4	317F	1981/04/30	N805-AR-	320053
8300030	F005	TR9087	9999	31J4	317F	1981/08/13	N805-AR-	320054
8300030	F005	TR9088	9999	31J4	317F	1981/05/21	N805-AR-	320055
8300030	F005	TR9089	9999	31J4	317F	1981/07/15	N805-AR-	320056
8300030	F005	TR9090	9999	31J4	317F	1981/07/15	N805-AR-	320057
8300030	F005	TR9091	9999	31J4	317F	1981/07/15	N805-AR-	320058
8300030	F005	TR9092	9999	31J4	317F	1981/07/15	N805-AR-	320059
8300030	F005	TR9093	9999	31J4	317F	1981/07/15	N805-AR-	320060
8300030	F005	TR9094	9999	31J4	317F	1981/07/15	N805-AR-	320061
8300030	F005	TR9095	9999	31J4	317F	1981/07/16	N805-AR-	320062
8300030	F005	TR9096	9999	31J4	317F	1981/07/16	N805-AR-	320063
8300030	F005	TR9097	9999	31J4	317F	1981/07/16	N805-AR-	320064
8300030	F005	TR9098	9999	31J4	317F	1981/07/16	N805-AR-	320065
8300030	F005	TR9099	9999	31J4	317F	1981/07/11	N805-AR-	320066
8300030	F005	TR9100	9999	31J4	317F	1981/07/16	N805-AR-	320067
8300030	F005	TR9101	9999	31J4	317F	1981/07/16	N805-AR-	320068
8300030	F005	TR9102	9999	31J4	317F	1981/07/27	N805-AR-	320069
8300030	F005	TR9103	9999	31J4	317F	1981/07/27	N805-AR-	320070
8300030	F005	TR9104	9999	31J4	317F	1981/07/29	N805-AR-	320071
8300030	F005	TR9105	9999	31J4	317F	1981/07/30	N805-AR-	320072
8300030	F005	TR9106	9999	31J4	317F	1981/07/30	N805-AR-	320073
8300030	F005	TR9107	9999	31J4	317F	1981/07/30	N805-AR-	320074
8300030	F005	TR9108	9999	31J4	317F	1981/07/30	N805-AR-	320075
8300030	F005	TR9109	9999	31J4	317F	1981/07/30	N805-AR-	320076
8300030	F005	TR9110	9999	31J4	317F	1981/07/30	N805-AR-	320077
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8300030	F005	TR9112	9999	31J4	317F	1981/08/04	N805-AR-	320079
8300030	F005	TR9113	9999	31J4	317F	1981/08/12	N805-AR-	320080
8300030	F005	TR9114	9999	31J4	317F	1981/07/10	N805-AR-	320081
8300030	F005	TR9115	9999	31J4	317F	1981/10/08	N805-AR-	320082
8300030	F005	TR9116	9999	31J4	317F	1981/10/08	N805-AR-	320083
8300030	F005	TR9117	9999	31J4	317F	1981/10/16	N805-AR-	320084
8300030	F005	TR9119	9999	31J4	317F	1981/11/13	N805-AR-	320085
8300030	F005	TR9120	9999	31J4	317F	1981/11/13	N805-AR-	320086
8300030	F005	TR9121	9999	31J4	317F	1981/11/13	N805-AR-	320087
8300030	F005	TR9122	9999	31J4	317F	1981/11/13	N805-AR-	320088
8300030	F005	TR9123	9999	31J4	317F	1981/11/13	N805-AR-	320089
8300030	F005	TR9124	9999	31J4	317F	1981/11/18	N805-AR-	320090
8300030	F005	TR9125	9999	31J4	317F	1981/11/18	N805-AR-	320091
8300030	F005	TR9126	9999	31J4	317F	1981/11/18	N805-AR-	320092
8300030	F005	TR9127	9999	31J4	317F	1981/11/18	N805-AR-	320093
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8300030	F005	TR9129	9999	31J4	317F	1981/08/26	N805-AR-	320095
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8300030	F005	TR9131	9999	31J4	317F	1981/08/28	N805-AR-	320097
8300030	F005	TR9132	9999	31J4	317F	1981/09/10	N805-AR-	320098
8300030	F005	TR9133	9999	31J4	317F	1981/09/11	N805-AR-	320099
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8300030	F005	TR9135	9999	31J4	317F	1981/09/17	N805-AR-	320101
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8300030	F005	TR9137	9999	31J4	317F	1981/12/02	N805-AR-	320103
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8300030	F005	TR9140	9999	31J4	317F	1981/05/04	N805-AR-	320106
8300030	F005	TR9141	9999	31J4	317F	1981/05/04	N805-AR-	320107
8300030	F005	TR9142	9999	31J4	317F	1981/05/05	N805-AR-	320108
8300030	F005	TR9143	9999	31J4	317F	1981/04/29	N805-AR-	320109

8300030	F005	TR9144	9999	31J4	317F	1981/04/29	N805-AR-	320110
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8300030	F005	TR9146	9999	31J4	317F	1981/04/30	N805-AR-	320112
8300030	F005	TR9147	9999	31J4	317F	1981/04/30	N805-AR-	320113
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8300030	F005	TR9150	9999	31J4	317F	1981/04/30	N805-AR-	320116
8300030	F005	TR9151	9999	31J4	317F	1981/05/13	N805-AR-	320117
8300030	F005	TR9152	9999	31J4	317F	1981/05/18	N805-AR-	320118
8300030	F005	TR9153	9999	31J4	317F	1981/05/19	N805-AR-	320119
8300030	F005	TR9154	9999	31J4	317F	1981/05/18	N805-AR-	320120
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8300030	F005	TR9156	9999	31J4	317F	1981/05/18	N805-AR-	320122
8300030	F005	TR9157	9999	31J4	317F	1981/05/19	N805-AR-	320123
8300030	F005	TR9158	9999	31J4	317F	1981/05/19	N805-AR-	320124
8300030	F005	TR9159	9999	31J4	317F	1981/05/20	N805-AR-	320125
8300030	F005	TR9160	9999	31J4	317F	1981/05/20	N805-AR-	320126
8300030	F005	TR9161	9999	31J4	317F	1981/05/21	N805-AR-	320127
8300030	F005	TR9162	9999	31J4	317F	1981/05/20	N805-AR-	320128
8300030	F005	TR9163	9999	31J4	317F	1981/05/20	N805-AR-	320129
8300030	F005	TR9164	9999	31J4	317F	1981/05/20	N805-AR-	320130
8300030	F005	TR9165	9999	31J4	317F	1981/05/20	N805-AR-	320131
8300030	F005	TR9166	9999	31J4	317F	1981/05/20	N805-AR-	320132
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8300030	F005	TR9168	9999	31J4	317F	1981/06/04	N805-AR-	320134
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8300030	F005	TR9171	9999	31J4	317F	1981/06/05	N805-AR-	320137
8300030	F005	TR9172	9999	31J4	317F	1981/06/04	N805-AR-	320138
8300030	F005	TR9173	9999	31J4	317F	1981/06/09	N805-AR-	320139
8300030	F005	TR9174	9999	31J4	317F	1981/06/12	N805-AR-	320140
8300030	F005	TR9175	9999	31J4	317F	1981/06/17	N805-AR-	320141
8300030	F005	TR9176	9999	31J4	317F	1981/06/22	N805-AR-	320142
8300030	F005	TR9177	9999	31J4	317F	1981/06/23	N805-AR-	320143
8300030	F005	TR9178	9999	31J4	317F	1981/06/23	N805-AR-	320144
8300030	F005	TR9179	9999	31J4	317F	1981/07/08	N805-AR-	320145
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8300030	F005	TR9181	9999	31J4	317F	1981/06/29	N805-AR-	320147
8300030	F005	TR9182	9999	31J4	317F	1981/06/29	N805-AR-	320148
8300030	F005	TR9183	9999	31J4	317F	1981/06/29	N805-AR-	320149
8300030	F005	TR9184	9999	31J4	317F	1981/06/29	N805-AR-	320150
8300030	F005	TR9185	9999	31J4	317F	1981/06/30	N805-AR-	320151
8300030	F005	TR9186	9999	31J4	317F	1981/07/08	N805-AR-	320152
8300030	F005	TR9187	9999	31J4	317F	1981/07/16	N805-AR-	320153
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(102 rows affected)

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8300030	F005	TR9087	317F	2	2727	81/08/13	81/09/01
8300030	F005	TR9088	317F	2	3877	81/05/21	81/06/01
8300030	F005	TR9089	317F	2	2849	81/07/15	81/08/01
8300030	F005	TR9090	317F	2	2850	81/07/15	81/08/01
8300030	F005	TR9091	317F	2	2889	81/07/15	81/08/01
8300030	F005	TR9092	317F	2	2747	81/07/15	81/08/01
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8300030	F005	TR9099	317F	1	2639	81/07/11	81/07/11
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8300030	F005	TR9101	317F	2	2708	81/07/16	81/08/01
8300030	F005	TR9102	317F	2	2319	81/07/27	81/08/01
8300030	F005	TR9103	317F	2	2318	81/07/27	81/08/01
8300030	F005	TR9104	317F	2	3151	81/07/29	81/08/01
8300030	F005	TR9105	317F	2	2876	81/07/30	81/08/01
8300030	F005	TR9106	317F	2	2878	81/07/30	81/08/01
8300030	F005	TR9107	317F	2	1170	81/07/30	81/08/01
8300030	F005	TR9108	317F	2	3022	81/07/30	81/08/01
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8300030	F005	TR9110	317F	2	1638	81/07/30	81/08/01
8300030	F005	TR9111	317F	1	2401	81/08/04	81/08/04
8300030	F005	TR9112	317F	1	2294	81/08/04	81/08/04
8300030	F005	TR9113	317F	1	2280	81/08/12	81/08/12
8300030	F005	TR9114	317F	1	2466	81/07/10	81/07/10
8300030	F005	TR9115	317F	1	2012	81/10/08	81/10/08
8300030	F005	TR9116	317F	1	2012	81/10/08	81/10/08
8300030	F005	TR9117	317F	1	1892	81/10/16	81/10/16
8300030	F005	TR9119	317F	2	2860	81/11/13	81/12/01
8300030	F005	TR9120	317F	2	2571	81/11/13	81/12/01
8300030	F005	TR9121	317F	2	2737	81/11/13	81/12/01
8300030	F005	TR9122	317F	2	2737	81/11/13	81/12/01
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8300030	F005	TR9125	317F	2	2313	81/11/18	81/12/01
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8300030	F005	TR9127	317F	2	2390	81/11/18	81/12/01
8300030	F005	TR9128	317F	1	2567	81/08/13	81/08/13
8300030	F005	TR9129	317F	1	708	81/08/26	81/08/26
8300030	F005	TR9130	317F	2	519	81/08/28	81/09/01
8300030	F005	TR9131	317F	2	2898	81/08/28	81/09/01
8300030	F005	TR9132	317F	1	2157	81/09/10	81/09/10
8300030	F005	TR9133	317F	1	2196	81/09/11	81/09/11
8300030	F005	TR9134	317F	2	2297	81/09/16	81/10/01
8300030	F005	TR9135	317F	1	1123	81/09/17	81/09/17
8300030	F005	TR9136	317F	1	442	81/09/25	81/09/25
8300030	F005	TR9137	317F	1	1737	81/12/02	81/12/02
8300030	F005	TR9138	317F	1	2174	81/05/04	81/05/04
8300030	F005	TR9139	317F	1	2095	81/05/04	81/05/04
8300030	F005	TR9140	317F	1	2302	81/05/04	81/05/04
8300030	F005	TR9141	317F	1	2302	81/05/04	81/05/04
8300030	F005	TR9142	317F	1	2170	81/05/05	81/05/05

8300030	F005	TR9143	317F	2	999	81/04/29	81/05/01
8300030	F005	TR9144	317F	2	2872	81/04/29	81/05/01
8300030	F005	TR9145	317F	2	2733	81/04/30	81/05/01
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8300030	F005	TR9148	317F	2	2595	81/04/30	81/05/01
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8300030	F005	TR9150	317F	2	1247	81/04/30	81/05/01
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8300030	F005	TR9156	317F	2	2445	81/05/18	81/06/01
8300030	F005	TR9157	317F	2	2313	81/05/19	81/06/01
8300030	F005	TR9158	317F	2	2315	81/05/19	81/06/01
8300030	F005	TR9159	317F	2	2214	81/05/20	81/06/01
8300030	F005	TR9160	317F	2	3009	81/05/20	81/06/01
8300030	F005	TR9161	317F	2	3881	81/05/21	81/06/01
8300030	F005	TR9162	317F	2	2047	81/05/20	81/06/01
8300030	F005	TR9163	317F	2	2047	81/05/20	81/06/01
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8300030	F005	TR9165	317F	2	3130	81/05/20	81/06/01
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8300030	F005	TR9168	317F	1	2271	81/06/04	81/06/04
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8300030	F005	TR9172	317F	1	2271	81/06/04	81/06/04
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8300030	F005	TR9175	317F	2	2169	81/06/17	81/07/01
8300030	F005	TR9176	317F	2	2272	81/06/22	81/07/01
8300030	F005	TR9177	317F	2	1875	81/06/23	81/07/01
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8300030	F005	TR9179	317F	1	1136	81/07/08	81/07/08
8300030	F005	TR9180	317F	2	1275	81/06/23	81/07/01
8300030	F005	TR9181	317F	2	2463	81/06/29	81/07/01
8300030	F005	TR9182	317F	2	2462	81/06/29	81/07/01
8300030	F005	TR9183	317F	2	2282	81/06/29	81/07/01
8300030	F005	TR9184	317F	2	2285	81/06/29	81/07/01
8300030	F005	TR9185	317F	2	2164	81/06/30	81/07/01
8300030	F005	TR9186	317F	1	3036	81/07/08	81/07/08
8300030	F005	TR9187	317F	2	2586	81/07/16	81/08/01
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