DDF B: 3: 12

ACCESSION NUMBER	73-0511

TR 1488

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-R265.

F004

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

Virginia Institute of Marine Sciences
Gloucester Point, Virginia

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

Data Report # 1

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

TR 1488

4. PLATFORM NAME(S)	5. PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.)	6. PLATFORM AND OPERATOR NATIONALITY(IES)		7. DATES	
		PLATFORM	OPERATOR	FROM: MO/DAY/YR	TO: MO/DAY/YR
Pathfinder R/V	Ship	U.S.	U.S.	11/27/61	11/27/61

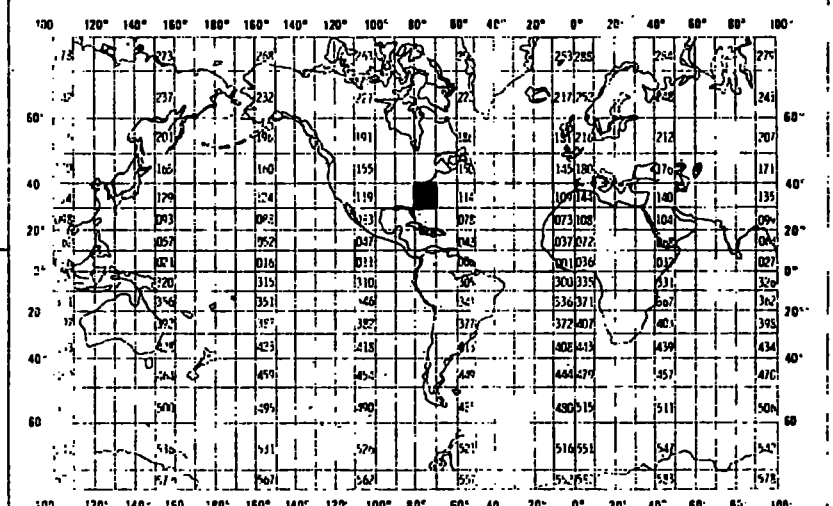
8. ARE DATA PROPRIETARY?

[XX] NO [ ] YES

IF YES, WHEN CAN THEY BE RELEASED FOR GENERAL USE? YEAR____ MONTH____

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

GENERAL AREA



9. ARE DATA DECLARED NATIONAL PROGRAM (DNP)?
(I.E., SHOULD THEY BE INCLUDED IN WORLD DATA CENTERS HOLDINGS FOR INTERNATIONAL EXCHANGE?)

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

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

M.M. Nichols

		ACCESSION NUMBER	73-0511

DATA DOCUMENTATION FORM

TR1489

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

F004

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

Virginia Institute of Marine Science
Gloucester Point, Virginia

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

Data Report # 1

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

TR1489

4. PLATFORM NAME(S)	5. PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.)	6. PLATFORM AND OPERATOR NATIONALITY(IES)		7. DATES	
		PLATFORM	OPERATOR	FROM: MO/DAY/YR	TO: MO/DAY/YR
Langley R/V	Ship	U.S.	U.S.	11/20/62	11/20/62

8. ARE DATA PROPRIETARY?

[X] NO [ ] YES

IF YES, WHEN CAN THEY BE RELEASED FOR GENERAL USE? YEAR ____ MONTH ____

9. ARE DATA DECLARED NATIONAL PROGRAM (DNP)?
(I.E., SHOULD THEY BE INCLUDED IN WORLD DATA CENTERS HOLDINGS FOR INTERNATIONAL EXCHANGE?)

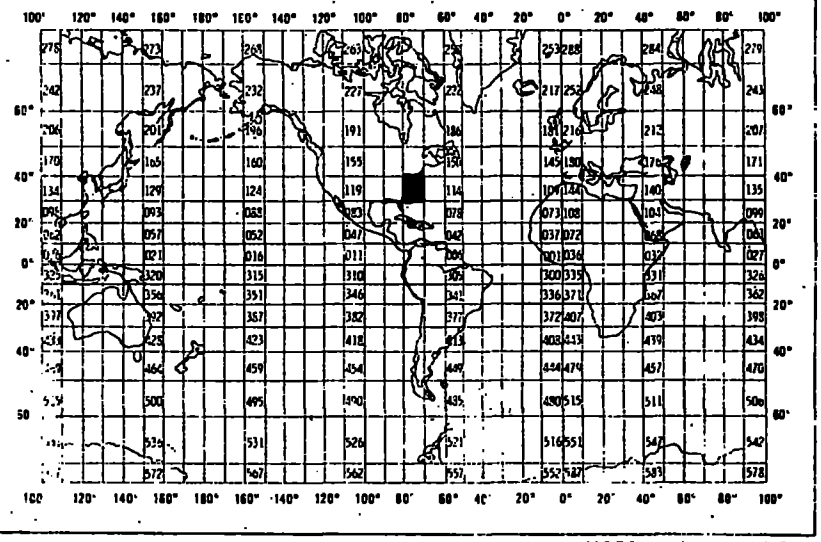
[X] NO [ ] YES [ ] PART *(SPECIFY BELOW)*

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

M.M. Nichols

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

GENERAL AREA



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
TRACKS 1488 - 1489				
Temperature	°Centigrage	Reversing Thermometers		
Salinity	°/oo	Nansen/Frautsehy Bottles	Mohr Titrations of the Chloride Ion	
Oxygen	ml/l	" " "	Winkler Method	
Ph		" " "	Beckman ph meters (Models G and N)	

ACCESSION NUMBER	73-0511

TR1653

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-R2651

F004

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

Virginia Institute of Marine Sciences
Gloucester Point, Virginia

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

Special Scientific Report # 48

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

TR1653

4. PLATFORM NAME(S)	5. PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.)	6. PLATFORM AND OPERATOR NATIONALITY(IES)		7. DATES	
		PLATFORM	OPERATOR	FROM: MO/DAY/YR	TO: MO/DAY/YR
R/V Pathfinder	Ship	U.S.	U.S.	01/22/63	07/17/63

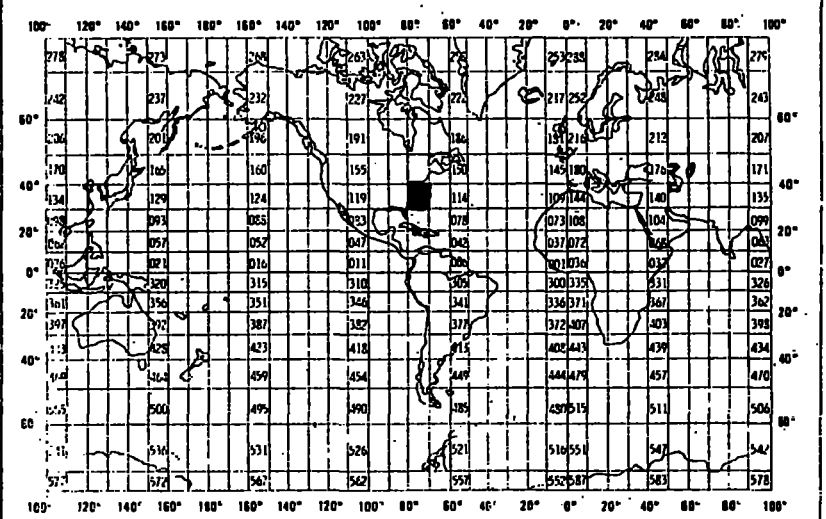
8. ARE DATA PROPRIETARY?

[XX] NO [ ] YES

IF YES, WHEN CAN THEY BE RELEASED FOR GENERAL USE? YEAR ___ MONTH ___

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

GENERAL AREA



9. ARE DATA DECLARED NATIONAL PROGRAM (DNP)?
(I.E., SHOULD THEY BE INCLUDED IN WORLD DATA CENTERS HOLDINGS FOR INTERNATIONAL EXCHANGE?)

[XX] NO [ ] YES [ ] PART (SPECIFY BELOW)

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

M.M.Nichols
M.P.Lynch

ACCESSION NUMBER	73-0511

TR1654

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-R265i

F004

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

Virginia Institute of Marine Sciences
Gloucester Point, Virginia

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

Special Scientific Report # 41

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

TR1654

4. PLATFORM NAME(S)	5. PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.)	6. PLATFORM AND OPERATOR NATIONALITY(IES)		7. DATES	
		PLATFORM	OPERATOR	FROM: MO/DAY/YR	TO: MO/DAY/YR
R/V Pathfinder	Ship	U.S.	U.S.	08/21/62	08/25/62

8. ARE DATA PROPRIETARY?

[XX] NO [ ] YES

IF YES, WHEN CAN THEY BE RELEASED FOR GENERAL USE? YEAR____ MONTH____

9. ARE DATA DECLARED NATIONAL PROGRAM (DNP)?
(I.E., SHOULD THEY BE INCLUDED IN WORLD DATA CENTERS HOLDINGS FOR INTERNATIONAL EXCHANGE?)

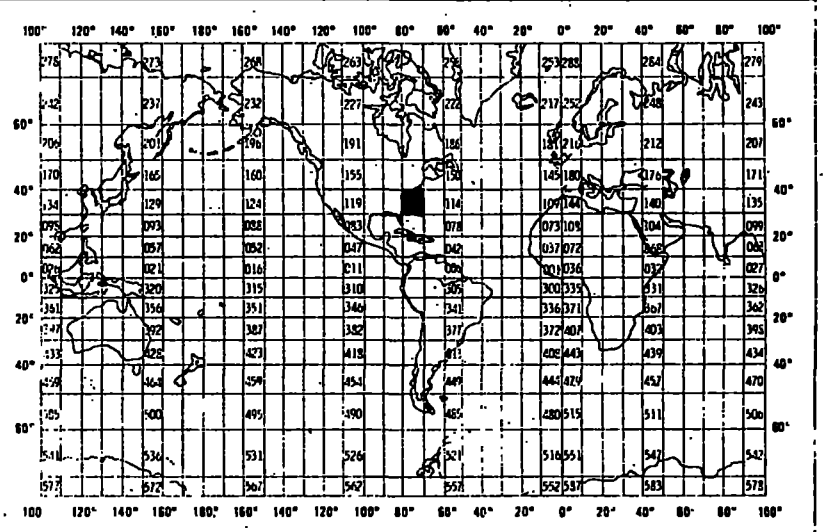
[XX] NO [ ] YES [ ] PART *(SPECIFY BELOW)*

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

M.M. Nichols
R.C. Barnes

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

GENERAL AREA



USCOMM-[illegible]

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
TRACKS	1653 - 1654			
Temperature	°Centigrade	In situ	I.C.T.I. (induction conductivity temperature indicator)	
Salinity	°/oo	" "	Surface bucket temperatures & chlorinity titrations provided a check on the electronic measurements.	

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

FILE HEADER RECORD - "1" in col. 10
FIRST STATION HEADER RECORD - "2" in col. 10
SECOND STATION HEADER RECORD - "3" in col. 10
DATA RECORDS - "4" in col. 10

2. GIVE BRIEF DESCRIPTION OF FILE ORGANIZATION

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

4. RESPONSIBLE COMPUTER SPECIALIST:
NAME AND PHONE NUMBER _____
ADDRESS _____

COMPLETE THIS SECTION IF DATA ARE ON MAGNETIC TAPE

5. RECORDING MODE
☐ BCD ☐ BINARY
☐ ASCII ☒ EBCDIC
☐ _____

6. NUMBER OF TRACKS (CHANNELS)
☐ SEVEN
☒ NINE
☐ _____

7. PARITY
☒ ODD
☐ EVEN

8. DENSITY
☐ 200 BPI ☒ 1600 BPI
☐ 556 BPI
☐ 800 BPI
☐ _____

9. LENGTH OF INTER-RECORD GAP (IF KNOWN) ☒ 3/4 INCH
☐ _____

10. END OF FILE MARK
☐ OCTAL 17
☐ _____

11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME LAY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER)

Data on tape is in card image
dcb = (recfm=fb,lrecl=80,blksize=3200)
DSN = AC730511,vol=ser=008926

9 Track tape;Standard Label.

12. PHYSICAL BLOCK LENGTH IN BYTES
3200

13. LENGTH OF BYTES IN BITS
8

USCOMM-DC 44269-P72

RECORD FORMAT DESCRIPTION

FILE NAME: WATER PHYSICS and CHEMISTRY (File Type "004")

14. FIELD NAME	15. POSITION FROM-1 MEASURED IN _____ (e.g., bits, bytes)	16. LENGTH in bytes NUMBER	17. ATTRIBUTES (FORTRAN)	18. USE AND MEANING
File Header Record				
File Type	1	3	A3	"004" (constant)
Track Number	4	6	6A1	NODC (in-house) Identifier
Record Type	10	1	A1	"1" (File Header Record)
Vessel	11	11	11A1	(left aligned)
Cruise	22	6	6A1	Originator's Cruise Identifier
Cruise Dates	28	17	5(I2,A1) I2	XX/XX/XX-XX/XX/XX Beginning Month, Day, Year; Ending Month, Day, Year
Senior Scientist	45	19	19A1	(left aligned)
Investigator	64	17	17A1	Responsible Institution (left aligned)

14. FIELD NAME	15. POSITION FROM-1 MEASURED IN _____ (e.g., bits, bytes)	16. LENGTH in bytes NUMBER	17. ATTRIBUTES (FORTRAN)	18. USE AND MEANING
First Station Header Record				
File Type	1	3	A3	"004" (constant)
Track Number	4	6	6A1	NODC (in-house) Identifier
Record Type	10	1	A1	"2" (First Station Header Record)
Sequence	11	3	I2	Sequence of this record type within station. (Leading zeros or leading blanks.)
Station	14	5	5A1	Station Identifier
Latitude	19	6	3I2	Degrees, Minutes, Seconds
Lathem	25	1	A1	Hemisphere "N" or "S"
Longitude	26	7	I3, 2I2	Degrees, Minutes, Seconds
Lonhem	33	1	A1	Hemisphere "W" or "E"
Time	34	3	I3	GMT in hour to tenths
Date	37	8	2(I2,A1), I2	XX/XX/XX Station Date; Month, Day, Year
Bottom	45	5	I5	Water Depth, meters to tenths
Navigation	50	2	I2	(See attached codes)
Method	52	1	I1	(See attached codes)
Blank	53	28	28X	Blank

FILE NAME: WATER PHYSICS and CHEMISTRY (File Type "004")

14. FIELD NAME	15. POSITION FROM-1 MEASURED IN _____ (e.g., bits, bytes)	16. LENGTH in bytes NUMBER	17. ATTRIBUTES (FORTRAN)	18. USE AND MEANING
Second Station Header Record				
File Type	1	3	A3	"004" (constant)
Track Number	4	6	6A1	NODC (in-house) Identifier
Record Type	10	1	A1	"3" (Second Station Header Record)
Sequence	11	3	I3	Sequence of this record type within station. (Leading zeros or leading blanks.)
Station	14	5	5A1	Station Identifier
Barometer	19	3	I3	Pressure in millibars to tenths
Dry Bulb	22	4	I4	Air temperature; degrees Celsius to tenths
Wet Bulb	26	4	I4	Air temperature; degrees Celsius to tenths
Wind Direction	30	2	I2	WMO code 0877; tens of degrees
Wind Speed	32	2	I2	Knots
Sea Direction	34	2	I2	WMO code 0885; tens of degrees
Sea Height	36	1	A1	WMO code 1555
Swell Direction	37	2	I2	WMO code 0885
Swell Height	39	1	A1	WMO code 1555
Weather	40	1	I1	WMO code 4501
Cloud Type	41	1	A1	WMO code 0500
Cloud Cover	42	1	I1	WMO code 2700
Visibility	43	1	I1	WMO code 4300
Transparency	44	4	I4	Secchi Disk Depth; meters to tenths
Turbidity Code	48	1	I1	(See attached codes)
Blank	49	37	37X	Blank

RECORD FORMAT DESCRIPTION

FILE NAME: WATER PHYSICS and CHEMISTRY (File Type "004")

14. FIELD NAME	15. POSITION FROM-1 MEASURED IN _____ (e.g., bits, bytes)	16. LENGTH in bytes NUMBER	17. ATTRIBUTES (FORTRAN)	18. USE AND MEANING
Data Record				
File Type	1	3	A3	"004" (constant)
Track Number	4	6	6A1	NODC (in-house) Identifier
Record Type	10	1	A1	"4" (Data Record)
Sequence	11	3	I3	Sequence of this record type within station. (Leading zeros or leading blanks.)
Station	14	5	5A1	Station Identifier
Depth	19	4	I4	Sample Depth; to tenths
Temperature	23	5	I5	Water Temp.; degrees Celsius to thousandths
Salinity	28	5	I5	Salinity; parts per thousand to thousandths
Sigma-T	33	4	I4	Sigma-t to hundredths
Transmissivity	37	3	I3	Transmissivity; percent to tenths
pH	40	3	I3	pH to hundredths
eH	43	4	I4	eH to hundredths
Oxygen	47	4	I4	Dissolved; hundredths to ml./liter
Ammonia	51	3	I3	Tenths of microgram (ug)-atoms/liter
Nitrite	54	3	I3	Hundredths of ug-atoms/liter
Nitrate	57	4	I4	Hundredths of ug-atoms/liter
Silicate	61	4	I4	Hundredths of ug-atoms/liter
Phosphate	65	3	I3	Inorganic; hundredths of ug-atoms/liter
Solids	68	4	I4	Suspended solids in hundredths of mg./liter

FILE NAME: WATER PHYSICS and CHEMISTRY (File Type "004")

14. FIELD NAME	15. POSITION FROM-1 MEASURED IN _____ (e.g., bits, bytes)	16. LENGTH in bytes NUMBER	17. ATTRIBUTES (FORTRAN)	18. USE AND MEANING
Data Record (cont'd)				
Turbidity	72	4	I4	Turbidity; in hundredths of mg./liter
Chlorophyll	76	5	I5	Chlorophyll; in hundredths of mg./meter^3

NAVIGATION

01 = Loran (mixed or unspecified)
02 = Radar and/or fixes
03 = Raydist without complications
04 = Raydist with errors, drifting, etc.
05 = Satellite
06 = Omega
07 = Loran A only
08 = Loran C only

TURBIDITY CODE

1 = Turbidometer; in JTU
2 = Transmissometer; in percent of light transmission over a 10 cm. path.
3 = Flourometer; suspended solids calibration

METHOD CODE

1 = STD (Salinity, Temperature, and Depth recorder)
2 = XBT (Expendable Bathythermograph)
3 = Nansen Cast
4 = MBT (Mechanical Bathythermograph)

TR1488-TR1489

CODING INSTRUCTIONS

NODC COUNTRY-CRUISE REFERENCE NO. 73-0511 , WRITER LWA DATE 12/76

CHECKED BY _____ DATE _____ ; APPROVED BY _____ DATE _____

SOURCE MATERIAL (AUTHOR, TITLE, VOLUME, PART, PAGE, ETC.)

This data batch - 730511 - consist of three separate publications -- Shelf Observations Hydrography Special Scientific Reports Nos. 41 and 48, and Bay Observations Hydrography Data Report No. 1. Three sets of coding instructions have been written - one for each booklet - however, there is a great deal of commonality between the three. The three sets of instructions should, however, be applied to the coding of their respective booklets (i.e., Instruction 730511 #1 are to be used with booklet 730511 #1, etc.). 730511 #1 has one cruise of 25 observations on pages 14-22.
730511 #2 has two cruises of 9 observations on pages 11-12
730511 #3 has one cruise of 83 observations on pages 18-33

NODC PUB. M-2 _____ IS TO BE USED IN CONJUNCTION WITH THESE INSTRUCTIONS

(General instructions begin on Page 2)

Booklet #1

INSTR. NO.	SPECIAL INSTRUCTIONS
#1	If an entry is made in any data field, prefix zeros (Ø) where necessary to fill that particular field. If no entry is to be made, leave field blank. DO NOT suffix zeros.
#2	Do not code decimal points; they are understood.

Supplemental Sheet for 730511

Booklet #1

Access. No.	Vessel	Dates of Operation	# Obs.	Institution
730511	Unknown	08/21/62-08/25/62	25	VA. INST. MAR. SC.

Sta. No.	Latitude	Longitude
700-20	37°00'N	075°05'W
700-30	37°00'N	074°53'W
700-40	37°00'N	074°40'W
700-47	37°00'N	074°31'W
700-50	37°00'N	074°28'W
700-56	37°00'N	074°20'W
700-59	37°00'N	074°16'W
705-59	37°05'N	074°16'W
710-20	37°10'N	075°05'W
710-30	37°10'N	074°53'W
710-40	37°10'N	074°40'W
710-47	37°10'N	074°31'W
710-50	37°10'N	074°28'W
710-53	37°10'N	074°24'W
710-56	37°10'N	074°20'W
710-59	37°10'N	074°16'W
715-59	37°15'N	074°16'W
720-20	37°20'N	075°06'W
720-30	37°20'N	074°53'W
720-40	37°20'N	074°41'W
720-47	37°20'N	074°31'W
720-50	37°20'N	074°29'W
720-53	37°20'N	074°24'W
720-56	37°20'N	074°20'W
720-59	37°20'N	074°16'W

TIMES: EASTERN STANDARD

73-0511

TABLE I – DEPTH PROFILES

DEPTH (Feet)	TEMPERATURE (°C)	SALINITY (‰)	DENSITY (Sigma-t) (σ_t)	OXYGEN (mg/L)
STA. NO 700-20				
DAY, MO. 21 Aug				
TIME → 1145 EST				
SW 10-15 KT				
WIND DIR, SPD.				
0	25.15	27.83	17.93	6.93
20	25.26	29.50	19.16	
40	20.45	31.06	21.67	
61	16.52	31.92	23.29	7.79
700-30				
21 Aug				
1259				
SW 10-15 KT				
0	25.74	29.81	19.24	-
20	25.42	30.86	20.12	
40	24.54	32.68	21.75	
60	17.76	32.58	23.50	
80	15.82	32.62	23.98	8.05
700-40				
21 Aug				
1437				
SW 10-15 KT				
0	25.50	31.27	20.43	6.32
20	25.36	31.31	20.71	
40	24.55	31.88	21.16	
60	21.00	33.05	23.00	
80	15.14	32.74	24.22	
100	11.50	32.43	24.71	
120	10.96	32.63	24.94	8.66
700-47				
21 Aug				
1549				
SW 10-15 KT				
0	25.64	31.52	20.54	5.65
20	25.55	31.31	20.41	
30	25.36	31.38	20.54	
40	24.96	31.58	20.80	
50	22.20	32.34	22.14	
60	22.22	33.03	22.67	
70	17.20	32.53	23.60	
80	15.32	32.71	24.16	
90	13.50	32.57	24.43	
100	12.58	32.79	24.79	
110	11.00	32.97	25.24	
120	9.44	34.13	26.39	
130	9.84	33.52	25.83	7.54

CODING INSTRUCTIONS FOR CRUISE NO. 730511

Booklet #1

File Header
Record

ITEM	CARD COL. NO.	M-2 TABLE NO.	INSTRUCTIONS
File Type	1-3	--------	Constant entry of "ØØ4"
Acces. Number	4-9	--------	Enter "730511" on each File Header Record
Record Type	10	--------	Constant entry of "1"
Vessel	11-21	--------	Enter "Unknown"
Orig. Cr. ID	22-27	--------	Leave blank
Dates of Oper.	28-44	--------	Enter dates from first and last observation. Convert month to two digit code (i.e., Aug=08, etc.). Enter "62" in year for each station
Senior Scien.	45-63	--------	Leave blank
Insti-tution	64-80	--------	Enter "VA. INST. MAR. SC."

CODING INSTRUCTIONS FOR CRUISE NO. 730511
Booklet #1

First - Station
Header Record

ITEM	CARD COL. NO.	M-2 TABLE NO.	INSTRUCTIONS
File Type	1-3	--------	Constant entry of "ØØ4"
Acces. Number	4-9	--------	Enter "730511" on each Station Header Record
Record Type	10	--------	Constant entry of "2"
Record Seq.	11-13	--------	Constant entry of "ØØ1"
Orig. Sta. No.	14-18	--------	Do not code dashes (-) or other special characters. If Sta. No. is given as 700-20, code as 70020
Latitude	19-24	--------	Enter as given from supplemental sheet for each respective station
Hemisphere	25	--------	Enter "N" throughout entire data set
Longitude	26-32	--------	Enter as given from supplemental sheet for each respective station
Hemisphere	33	--------	Enter "W" throughout entire data set
Time (GMT)	34-36	Tables #4 & 2	Time is given in (EST) Eastern Standard Time and should be converted to GMT using Table #4.
			The first two digitis of time are hours, remaining two are minutes. Using Table #2
			convert minutes to tenths of hours. (If Time given as 1145, code 167.)
Station Date	37-44	--------	Enter as given, except where conversion to GMT changes the Day. Convert month to numeric
			code (i.e., Aug=08, etc.).
	45-51	--------	Leave blank
Method	52	--------	Enter "3"
	53-80	--------	Leave blank

CODING INSTRUCTIONS FOR CRUISE NO. 730511
Booklet #1

Second - Station
Header Record

ITEM	CARD COL. NO.	M-2 TABLE NO.	INSTRUCTIONS
File Type	1-3	--------	Constant entry of "ØØ4"
Acces. Number	4-9	--------	Enter "730511" on each Station Header Record
Record Type	10	--------	Constant entry of "3"
Record Seq.	11-13	--------	Constant entry of "ØØ1"
Orig. Sta. No.	14-18	--------	Do not code (-) dashes or other special characters. If Sta. No. given as 700-20, code 70020
	19-29	--------	Leave blank
Wind Dir.	30-31	Table #9	The points of wind direction are given in one and two digit alphabetic codes. Use Table #9 to convert points to appropriate code (i.e., SW=22)
Wind Speed	32-33	--------	Enter as given and prefix any necessary zeros (Ø). If a range of values is given, code the greater value (i.e., 10-15 KT, code 15)
	34-80	--------	Leave blank

CODING INSTRUCTIONS FOR CRUISE NO. 730511
Booklet #1

Data Records

ITEM	CARD COL. NO.	M-2 TABLE NO.	INSTRUCTIONS
File Type	1-3	--------	Constant entry of "ØØ4"
Acces. Number	4-9	--------	Enter "730511" on each Data Record
Record Type	10	--------	Constant entry of "4"
Record Seq.	11-13	--------	Enter "ØØ1" on first Data Record and number subsequent Data Records consecutively (e.g., ØØ1, ØØ2, ØØ3, etc.)
Orig. Sta. No.	14-18	--------	Do not code dashes (-) or other special characters. If Sta. No. is given as 700-20, code 70020
Depth	19-22	Table #6	Depth is given in feet. Convert feet to meters using Table #6
Temp.	23-27	--------	Enter as given. Prefix any necessary zeros
Salinity	28-32	--------	Enter as given
Sigma-t	33-36	--------	Enter as given. Recorded under "Density"
	37-46	--------	Leave blank
Oxygen	47-50	--------	Enter as given
	51-80	--------	Leave blank

TR 1653

CODING INSTRUCTIONS

NODC COUNTRY-CRUISE REFERENCE NO. 73-0511 , WRITER LWA DATE 12/76

CHECKED BY _____ DATE _____ ; APPROVED BY _____ DATE _____

SOURCE MATERIAL (AUTHOR, TITLE, VOLUME, PART, PAGE, ETC.)

This data batch - 730511 - consist of three separate publications -- Shelf Observations Hydrography Special Scientific Reports Nos. 41 and 48, and Bay Observations Hydrography Data Report No. 1. Three sets of coding instructions have been written - one for each booklet - however, there is a great deal of commonality between the three. The three sets of instructions should, however, be applied to the coding of their respective booklets (i.e., Instruction 730511 #1 are to be used with booklet 730511 #1, etc.). 730511 #1 has one cruise of 25 observations on pages 14-22
730511 #2 has two cruises of 9 observations on pages 11-12
730511 #3 has one cruise of 83 observations on pages 18-33

NODC PUB. M-2 _____ IS TO BE USED IN CONJUNCTION WITH THESE INSTRUCTIONS

(General instructions begin on Page 2)

Booklet #2

INSTR. NO.	SPECIAL INSTRUCTIONS
#1	If an entry is made in any data field, prefix zeros (Ø) where necessary to fill that particular field. If no entry is to be made, leave field blank. DO NOT suffix zeros.
#2	Do not code decimal points; they are understood.
#3	This particular booklet contains two sub-data sets (2 cruises) of 4 and 6 observations respectively. The first cruise of 5 stations is on page 11 and the second cruise of 6 stations is on page 12. Care should be taken to encode the correct ship with each cruise.

Cruise # 1

Table 1. Hydrographic data, cruise of R/V Pathfinder November 27, 1961 (Date). Weather: Partly cloudy, NW winds 3-8 mph. Tide: Predominately flood:

YORK RIVER - CHESAPEAKE BAY

STATION	TIME (EST)	DEPTH (ft)	DISK VISIBILITY (Transparency) (ft)	CURRENT VELOCITY (knts)	TEMP (°C)	SALINITY (°/oo)	DENSITY (σ_t)	pH	OXYGEN (mg/l)	OXYGEN (% sat.)
(1)	0900	0	5	0.54	10.70	19.20	14.61	7.43	8.03	83.88
		10			10.88	20.53	15.61	8.09	7.77	82.05
37°13.8'N (Lat.)		20			11.00	21.94	16.68	8.05	7.79	83.21
76°26.8'W (Long)		30		0.68	10.93	22.92	17.45	8.09	7.70	82.54
		40			11.11	23.31	17.72	8.09	7.73	83.55
		50			11.13	23.53	17.89	8.09	7.61	82.64
		60		0.61	11.15	23.69	18.02	8.02	7.73	83.88
(3)	1045	0	7	0.39	10.60	22.12	16.88	8.15	8.30	88.03
		10			11.09	23.80	18.10	8.24	7.84	85.12
37°12.0'N		20		0.93	11.15	26.78	20.41	8.14	7.57	83.46
76°16.3'W		30			11.20	25.34	19.82	8.21	7.51	82.45
		38		0.77	11.22	27.14	20.68	8.20	7.53	83.65
(4)	1210	0	8	0.75	10.63	22.39	17.08	8.39	8.39	89.28
		10		1.00	11.01	23.57	17.94	7.69	8.11	87.72
37°10.5'N		20			11.31	28.12	21.41	7.81	7.74	86.72
76°11.5'W		30		0.84	11.30	28.21	21.48	8.01	7.67	85.92
(5)	1325	0	8	1.24	10.87	25.26	19.27	7.90	8.30	90.43
		10		1.44	10.75	25.44	19.42	7.92	8.23	89.30
37°10.7'N		20			10.69	29.72	22.74	7.98	7.93	88.66
76°01.1'W		28		0.75	10.65	29.00	29.00	8.01	7.93	88.09

Table 2. Hydrographic data, cruise of R/V Langley, November 20, 1962. Weather: Overcast, intermittent precipitation, Tide: Flood to ebb.

Cruise #2

YORK RIVER - CHESAPEAKE BAY

STATION	TIME (EST)	DEPTH (ft)	DISK VISIBILITY (ft)	CURRENT VELOCITY (knts)	CURRENT DIRECTION (°true)	TEMP (°C)	SALINITY (°/oo)	DENSITY (σ_t)	pH	OXYGEN (mg/l)	OXYGEN (% sat)
1	0800	0	7	0.65	270	10.23	19.61	14.91	7.90	10.24	118.0
7°13.8'N		15		0.29	270	10.96	22.66	17.24	7.90	9.16	98.5
6°26.8'W		30		0.39	270	11.04	23.32	17.74	8.00	8.75	94.6
		45		0.44	270	11.42	24.78	18.81	8.00	8.25	90.0
		60				11.42	24.78	18.81	8.05	8.14	89.6
2	0920	0	8	0.71	270	9.36	20.77	16.01	8.10	9.38	95.7
7°14.7'N		15		0.20	270	- -	23.10	- -	8.10	9.55	- -
6°16.3'W		30		0.22	270	9.88	24.98	19.20	8.20	9.39	99.8
		45		0.12	270	10.16	25.38	19.47	8.20	8.43	90.4
		53		0.17	270	10.36	25.10	19.23	8.20	8.19	88.1
3	1045	0	9	0.45	135	10.04	22.21	17.03	8.20	9.41	98.6
7°12.0'N		15		0.45	200	10.44	22.23	16.99	8.30	9.31	98.5
6°16.3'W		30		0.12	270	10.88	24.08	18.36	8.30	8.62	93.3
		38		0.27	290	11.12	25.61	19.50	8.30	8.43	92.4
4	1151	0	9	0.80	200	10.52	23.19	17.73	8.10	8.15	- -
7°10.5'N		15		0.19	240	11.04	25.53	19.45	8.10	- -	- -
7°10.5'N		30		0.15	140	11.08	27.13	20.69	8.10	8.72	- -
6°11.5'W		34		0.17	190	11.20	27.30	20.80			- -
(Oxygen at 1600 only)											
5	1250	0	10	0.27	210	10.50	23.78	18.17	8.30	9.41	101.0
7°10.7'N		15		0.20	180	11.00	25.06	19.10	8.30	9.60	105.0
6°06.2'W		28		0.00	- -	11.28	27.83	21.20	8.30	8.72	97.5
6	1400	0	9	0.57	000	10.72	25.40	19.40	8.24	9.38	102.0
7°10.8'N		15		0.42	000	10.80	25.76	19.67	8.19	9.23	101.0
6°01.1'W		30		0.44	000	11.00	27.59	21:05	8.16	9.02	100.0
		45		0.51	000	11.00	28.47	21.47	8.29	9.07	101.0
		60		0.57	000	11.04	29.79	22.75	8.33	8.79	99.0
		80		0.63	000	10.96	29.79	22.76	8.22	8.69	97.9

CODING INSTRUCTIONS FOR CRUISE NO. 730511

Booklet #2

File Header
Record

ITEM	CARD COL. NO.	M-2 TABLE NO.	INSTRUCTIONS
File Type	1-3	--------	Constant entry of "ØØ4"
Acces. Number	4-9	--------	Enter "730511" on each File Header Record
Record Type	10	--------	Constant entry of "1"
Vessel	11-21	--------	For first data set (page 11) enter "PATHFINDER." For second data set (page 12) enter "LANGLEY." (right justified)
Orig. Cr. ID	22-27	--------	Leave blank
Dates of Oper.	28-44	--------	Enter "11/27/61-11/27/61" on first cruise. Enter 11/20/62-11/20/62 on second cruise
Senior Scien.	45-63	--------	Leave blank
Insti-tution	64-80	--------	Enter "VA. INST. MAR. SC." on each File Header Record (both cruises). (left justified)

CODING INSTRUCTIONS FOR CRUISE NO. 730511

Booklet #2

First - Station
Header Record

ITEM	CARD COL. NO.	M-2 TABLE NO.	INSTRUCTIONS
File Type	1-3	--------	Constant entry of "ØØ4"
Acces. Number	4-9	--------	Enter "730511" on each Station Header Record
Record Type	10	--------	Constant entry of "2"
Record Seq.	11-13	--------	Constant entry of "ØØ1"
Orig. Sta. No.	14-18	--------	Enter as given with prefixing zeros (right justified)
Latitude	19-24	Table #2	Convert tenths of minutes to seconds using Tables #2, then enter Latitude as given
Hemisphere	25	--------	Enter "N" throughout both data sets
Longitude	26-32	Table #2	Convert tenths of minutes to seconds using Table #2, then enter Longitude as given
Hemisphere	33	--------	Enter "W" throughout both data sets
Time (GMT)	34-36	Tables #4 & 2	Time is given in EST and should be converted to (GMT) using Table #4. Convert minutes to tenths of hours by using Table #2 and enter converted time
Station Date	37-44	--------	Enter as given, except where conversion to GMT changes day. Convert month, November, to two digit code, "11"
	45-51	--------	Leave blank
Method	52	--------	Enter "3"
	53-80	--------	Leave blank

CODING INSTRUCTIONS FOR CRUISE NO. 730511

Booklet #2

Second - Station
Header Record

ITEM	CARD COL. NO.	M-2 TABLE NO.	INSTRUCTIONS
File Type	1-3	--------	Constant entry of "ØØ4"
Acces. Number	4-9	--------	Enter "730511" on each Station Header Record
Record Type	10	--------	Constant entry of "3"
Record Seq.	11-13	--------	Constant entry of "ØØ1"
Orig. Sta. No.	14-18	--------	Enter as given with prefixing zeros (right justified)
	19-33	--------	Leave blank
Sea Dir.	34-35	Table #8	Sea Dir. is not given for first cruise; however, Table #8 should be used for second cruise to convert three digit code to two digit code (ex. 270=27). Sea Dir. is recorded under "Current Direction"
	36-43	--------	Leave blank
Trans-parency	44-47	Table #6	Transparency is recorded under "Disk Visibility" in feet. Use Table #6 to convert feet to meters. Prefix necessary zeros to fill the field
	48-80	--------	Leave blank

CODING INSTRUCTIONS FOR CRUISE NO. 730511

Booklet #2

Data Records

ITEM	CARD COL. NO.	M-2 TABLE NO.	INSTRUCTIONS
File Type	1-3	--------	Constant entry of "ØØ4"
Acces. Number	4-9	--------	Enter "730511" on each Data Record
Record Type	10	--------	Constant entry of "4"
Record Seq.	11-13	--------	Enter "ØØ1" on first Data Record and number subsequent Data Records consecutively (e.g., ØØ1, ØØ2, ØØ3, etc.)
Orig. Sta. No.	14-18	--------	Enter as given with prefixing zeros (right justified)
Depth	19-22	Table #6	The depths in both cruises are given in feet. Convert feet to meters and enter in the prefixing zeros
Temperature	23-27	--------	Enter as given. Prefix necessary zeros. Do not suffix zeros
Salinity	28-32	--------	Enter as given
Sigma-t	33-36	--------	Enter as given. Recorded under "Density"
	37-39	--------	Leave blank
pH	40-42	--------	Enter as given. Recorded under "pH"
	43-46	--------	Leave blank
Oxygen	47-50	Table #30	Use Table #30 to convert milligram/liter to milliliters/liter, then enter with any necessary prefixed zeros. Recorded under "Oxygen mg/L"
	51-80	--------	Leave blank

TR1654

CODING INSTRUCTIONS

NODC COUNTRY-CRUISE REFERENCE NO. 73-0511 , WRITER LWA DATE 12/76

CHECKED BY _____ DATE _____ ; APPROVED BY _____ DATE _____

SOURCE MATERIAL (AUTHOR, TITLE, VOLUME, PART, PAGE, ETC.)

This data batch - 730511 - consist of three separate publications -- Shelf Observations Hydrography Special Scientific Reports Nos. 41 and 48, and Bay Observations Hydrography Data Report No. 1. Three sets of coding instructions have been written - one for each booklet - however, there is a great deal of commonality between the three. The three sets of instructions should, however, be applied to the coding of their respective booklets (i.e., Instruction 730511 #1 are to be used with booklet 730511 #1, etc.). 730511 #1 has one cruise of 25 observations on pages 14-22
730511 #2 has two cruises of 9 observations on pages 11-12
730511 #3 has one cruise of 83 observations on pages 18-33

NODC PUB. M-2 _____ IS TO BE USED IN CONJUNCTION WITH THESE INSTRUCTIONS

(General instructions begin on Page 2)

Booklet #3

INSTR. NO.	SPECIAL INSTRUCTIONS
#1	If an entry is made in any data field, prefix zeros (Ø) where necessary to fill that particular field. If no entry is to be made, leave field blank. DO NOT suffix zeros.
#2	Do not code decimal points; they are understood.
#3	See special note (*) on Second - Station Header Record sheet.

Supplemental Sheet for 730511
Booklet #3

Sta. No.	Latitude	Longitude
706-06	37°06'N	075°52'W
706-08		075°50'W
706-10		075°48'W
706-12		075°45'W
706-14		075°42'W
706-16		075°40'W
706-18		075°38'W
706-20	37°06'N	075°35'W
710-10	37°10'N	075°48'W
710-12	37°10'N	075°45'W
710-14	37°10'N	075°43'W
714-12	37°14'N	075°45'W
714-14		075°43'W
714-16		075°40'W
714-18		075°38'W
714-20		075°35'W
714-22		075°32'W
714-24		075°30'W
714-26		075°28'W
714-28		075°25'W
714-30		075°23'W
714-32	37°14'N	075°19'W
718-14	37°18'N	075°44'W
718-16		075°40'W
718-18		075°38'W
718-20		075°35'W
718-22		075°33'W
718-24		075°30'W
718-26		075°28'W
718-28		075°25'W
718-30		075°23'W
718-32	37°18'N	075°20'W
710-16	37°10'N	075°40'W
710-18		075°38'W
710-20		075°35'W
710-22	37°10'N	075°33'W
722-18	37°22'N	075°38'W
722-20		075°35'W
722-22		075°33'W
722-24		075°30'W
722-26		075°28'W
722-28		075°25'W
722-30		075°23'W
722-32		075°20'W
722-34		075°17'W
722-36		075°15'W
722-38		075°12'W
722-40	37°22'N	075°10'W
726-18	37°26'N	075°38'W

Sta. No.	Latitude	Longitude
726-20	37°26'N	075°35'W
726-22		075°33'W
726-24		075°30'W
726-28		075°25'W
726-32		075°20'W
726-36		075°15'W
726-40	37°26'N	075°10'W
728-36	37°28'N	075°15'W
729-33	37°29'N	075°19'W
731-29	37°31'N	075°24'W
734-20	37°34'N	075°36'W
734-22		075°33'W
734-24		075°30'W
734-26		075°28'W
734-28		075°25'W
734-30		075°23'W
734-32		075°20'W
734-34		075°18'W
734-36		075°15'W
734-38		075°12'W
734-40		075°10'W
734-44	37°34'N	075°05'W
738-20	37°38'N	075°35'W
738-22		075°33'W
738-24		075°30'W
738-26		075°28'W
738-28		075°25'W
738-30		075°23'W
738-32		075°20'W
738-34		075°18'W
738-36		075°15'W
738-38		075°12'W
738-40		075°10'W
738-44	37°38'N	075°05'W

TABLE I - DEPTH PROFILES

CRUISE OF JANUARY 22 - 25, 1963

	DEPTH (Feet)	TEMPERATURE (°C.)	SALINITY (°/oo)	(Sigmat) DENSITY (σ_t)
706-06 — STA. NO				
DATE — 22 Jan. 63	0	3.16	31.11	24.79
1242 — TIME (EST)	10	3.07	31.15	24.84
	17	3.04	31.20	24.88
706-08	0	3.19	31.27	24.92
22 Jan.	10	3.19	31.38	25.01
1328	20	3.16	31.35	24.99
706-10	0	3.26	31.37	25.00
22 Jan.	10	3.24	31.40	25.03
1339	20	3.24	31.43	25.06
	25	3.24	31.44	25.06
706-12	0	3.25	31.56	25.15
22 Jan.	10	3.25	31.62	25.20
1359	20	3.20	31.60	25.19
	30	3.18	31.60	25.19
	40	3.18	31.62	25.20
706-14	0	3.40	31.57	25.14
22 Jan.	10	3.36	31.60	25.16
1415	20	3.34	31.64	25.21
	30	3.30	31.65	25.22
	40	3.30	31.65	25.22
	50	3.30	31.65	25.22

CODING INSTRUCTIONS FOR CRUISE NO. 730511

Booklet #3

File Header
Record

ITEM	CARD COL. NO.	M-2 TABLE NO.	INSTRUCTIONS
File Type	1-3	--------	Constant entry of "ØØ4"
Acces. Number	4-9	--------	Enter "730511" on each File Header Record
Record Type	10	--------	Constant entry of "1"
Vessel	11-21	--------	Enter "UNKNOWN." Left justified
Orig. Cr. ID	22-27	--------	Leave blank
Dates of Oper.	28-44	--------	Enter dates from first and last observations in appropriate fields
Senior Scien.	45-63	--------	Leave blank
Insti-tution	64-80	--------	Enter "VA. INST. MAR. SC."

CODING INSTRUCTIONS FOR CRUISE NO. 730511

Booklet #3

First - Station
Header Record

ITEM	CARD COL. NO.	M-2 TABLE NO.	INSTRUCTIONS
File Type	1-3	--------	Constant entry of "ØØ4"
Acces. Number	4-9	--------	Enter "730511" on each Station Header Record
Record Type	10	--------	Constant entry of "2"
Record Seq.	11-13	--------	Constant entry of "ØØ1"
Orig. Sta. No.	14-18	--------	Do not code dashes (-) or other special characters. If Sta. No. is given as 706-06; code as 70606
Lati-tude	19-24	--------	Enter as given from supplemental sheet for each respective station
Hemi-sphere	25	--------	Enter "N" throughout entire data set
Longi-tude	26-32	--------	Enter as given from supplemental sheet for each respective station
Hemi-sphere	33	--------	Enter "W" throughout entire data set
Time (GMT)	34-36	Tables #4 & 2	Time is given in (EST) Eastern Standard Time and should be converted to GMT using Table #4.
			The first two digits of time are hours; remaining two are minutes, using Table #2, convert
			minutes to tenths of hours. (If time given as 1242 code 17.7.)
Station Date	37-44	--------	Enter as given except where conversion to GMT changes the day. Convert month to numeric code
			(i.e., Jan-Ø1, etc.)
	45-51	--------	Leave blank
	52	--------	Enter "3"
	53-80	--------	Leave blank

CODING INSTRUCTIONS FOR CRUISE NO. 730511

Booklet #3

Second - Station
Header Record

ITEM	CARD COL. NO.	M-2 TABLE NO.	INSTRUCTIONS
File Type	1-3	--------	Constant entry of "ØØ4"
Acces. Number	4-9	--------	Enter "730511" on each Station Header Record
Record Type	10	--------	Constant entry of "3"
Record Seq.	11-13	--------	Constant entry of "ØØ1"
Orig. Sta. No.	14-18	--------	Do not code dashes (-) or other special characters. If Sta. No. is given as 706-06, code as 70606
	19-43	--------	Leave blank
Trans-parency	44-47	Table #6	When given, it is listed under "Disk Depth" (feet) and should be converted to meters using Table #6*
	48-80	--------	Leave blank
	*When transparency is not given, the Second - Station Header Record may be omitted entirely. (There are 29 stations that do supply transparency.)		

CODING INSTRUCTIONS FOR CRUISE NO. 730511

Booklet #3

Data Records

ITEM	CARD COL. NO.	M-2 TABLE NO.	INSTRUCTIONS
File Type	1-3	--------	Constant entry of "ØØ4"
Acces. Number	4-9	--------	Enter "730511" on each Data Record
Record Type	10	--------	Constant entry of "4"
Record Seq.	11-13	--------	Enter "ØØ1" on first Data Record and number subsequent Data Records consecutively (e.g., ØØ1; ØØ2; ØØ3; etc.)
Orig. Sta. No.	14-18	--------	Do not code dashes (-) or other special characters. If Sta. No. is given as 706-06, code 70606
Depth	19-22	Table #6	Depth is given in feet. Convert feet to meters using Table #6. There are instances where the value is given as "S", which indicates surface and should be coded as 000.0
Temp.	23-27	--------	Enter as given. Prefix necessary zeros.
Salinity	28-32	--------	Enter as given.
Sigma-t	33-36	--------	Enter as given. Recorded under "Density"
	37-80	--------	Leave blank

```
Password:
 accNo    fleA refNo   proj inst ship startDate  cruise       catId
 -------- ---- ------- ---- ---- ---- ---------- ------------ ----------
 7300511  C100 BL1437  9999 3128 31PF 1961/11/27 NULL            282569
 7300511  C100 BL1438  9999 3128 31LN 1962/11/20 NULL            282570
 7300511  L121 BL1439  9999 3128 31PF 1962/08/21 NULL            282571
 7300511  F004 TR1488  9999 3128 31LN 1962/11/20 NULL            282572
 7300511  F004 TR1489  9999 3128 31PF 1961/11/27 NULL            282573
 7300511  F004 TR1653  9999 3128 31PF 1963/01/22 NULL            282574
 7300511  F004 TR1654  9999 3128 31PF 1962/08/21 NULL            282575

(7 rows affected)
```

```
Password:
 accNo    fleA refNo   ship staCnt      recCnt      startDate   endDate
 -------- ---- ------- ---- ---------- ----------- ----------- -----------
 7300511  C100 BL1437  31PF          4           0 Nov 27 1961 Nov 27 1961
 7300511  C100 BL1438  31LN          6           0 Nov 20 1962 Nov 20 1962
 7300511  L121 BL1439  31PF         29           0 Aug 21 1962 Aug 26 1962
 7300511  F004 TR1488  31LN          6          40 Nov 20 1962 Nov 20 1962
 7300511  F004 TR1489  31PF          4          29 Nov 27 1961 Nov 27 1961
 7300511  F004 TR1653  31PF         83         545 Jan 22 1963 Jul 18 1963
 7300511  F004 TR1654  31PF         25         291 Aug 21 1962 Aug 26 1962

(7 rows affected)
```

```
Password:
 accNo   fleA refNo  proj inst ship    startDate  cruise   catId
 ------- ---- ------ ---- ---- ------- ---------- -------- ----------
 7300511 C100 BL1438 9999 3128 31LN    1962/11/20 NULL         282570
 7300511 F004 TR1488 9999 3128 31LN    1962/11/20 NULL         282572
 7300511 C100 BL1437 9999 3128 31PF    1961/11/27 NULL         282569
 7300511 L121 BL1439 9999 3128 31PF    1962/08/21 NULL         282571
 7300511 F004 TR1489 9999 3128 31PF    1961/11/27 NULL         282573
 7300511 F004 TR1653 9999 3128 31PF    1963/01/22 NULL         282574
 7300511 F004 TR1654 9999 3128 31PF    1962/08/21 NULL         282575

(7 rows affected)
```

```
Password:
 accNo   fleA refNo  ship staCnt recCnt startDate  endDate
 ------- ---- ------ ---- ------ ------ ---------- ----------
 7300511 C100 BL1438 31LN 6      NULL   62/11/20   62/11/20
 7300511 F004 TR1488 31LN 6      40     62/11/20   62/11/20
 7300511 C100 BL1437 31PF 4      NULL   61/11/27   61/11/27
 7300511 L121 BL1439 31PF 29     NULL   62/08/21   62/08/26
 7300511 F004 TR1489 31PF 4      29     61/11/27   61/11/27
 7300511 F004 TR1653 31PF 83     545    63/01/22   63/07/18
 7300511 F004 TR1654 31PF 25     291    62/08/21   62/08/26

(7 rows affected)
```