Reference # | BR6843-6863 | ACCESSION NUMBER | 8800152

F1191

DATA DOCUMENTATION FORM

April 1988

NOAA FORM 24-13 (4-77)

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

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

(While you are not required to use this form, it is the most desirable mechanism for providing the required ancillary information enabling the NODC and users to obtain the greatest benefit from your data.)

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

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

Sallie P. Nolan
NOAA/National Data Buoy Center
NSTL Station, MS 39529

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

TOGA

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

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
N/A	BUOY		USA	04/01/88	04/30/88

8. ARE DATA PROPRIETARY?

☒ 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?)

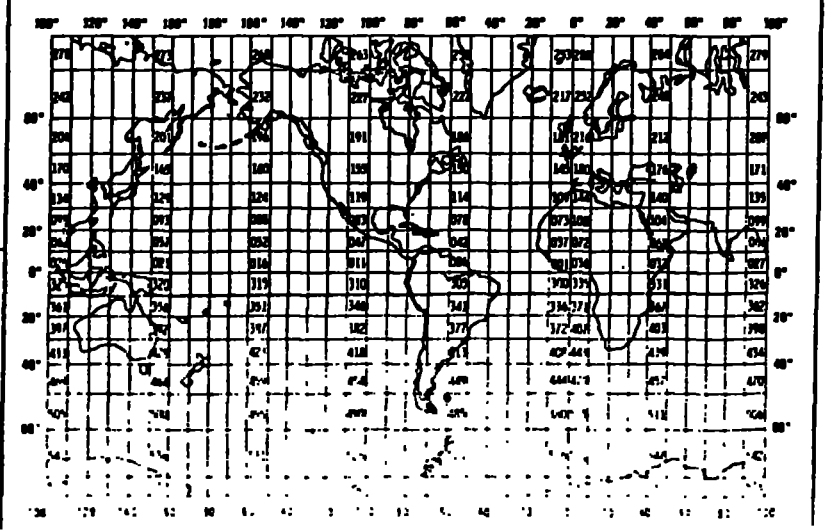
☒ NO ☐ YES ☐ PART (SPECIFY BELOW)

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

Sallie P. Nolan
8-494-1721

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

GENERAL AREA



Reference # | BR8804-6890 | ACCESSION NUMBER | 8800152

FT191

DATA DOCUMENTATION FORM

April 1988

NOAA FORM 24-13 (4-77)

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

FORM APPROVED
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EXPIRES 1-81

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		PLATFORM	OPERATOR	FROM: MO/DAY/YR	TO: MO/DAY/YR
N/A	Buoy		USA	04/01/88	04/30/88

8. ARE DATA PROPRIETARY?

☒ NO ☐ YES

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

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(I.E., SHOULD THEY BE INCLUDED IN WORLD DATA CENTERS HOLDINGS FOR INTERNATIONAL EXCHANGE?)

☒ NO ☐ YES ☐ PART *(SPECIFY BELOW)*

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8-494-1721

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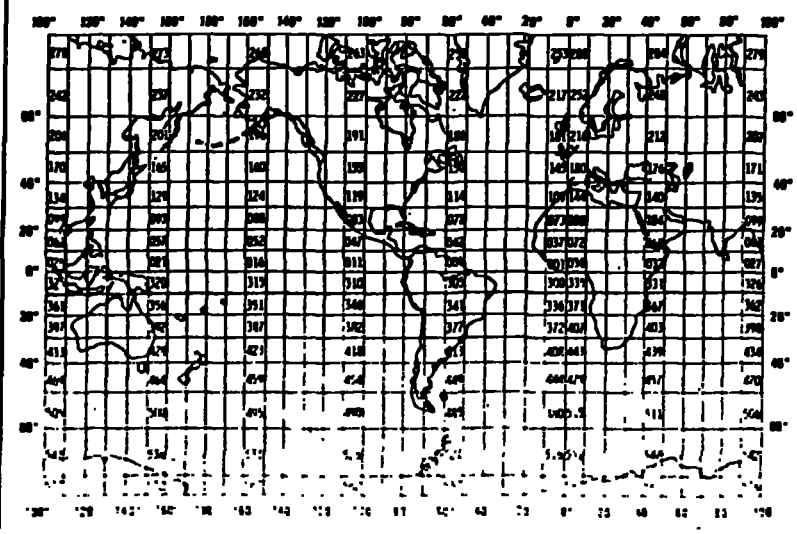
GENERAL AREA



Reference # | BR6891-6932 | ACCESSION NUMBER | 88000152

FT191

DATA DOCUMENTATION FORM

April 1988

NOAA FORM 24-13
(4-77)

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
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NSTL Station, MS 39529

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

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4. PLATFORM NAME(S)	5. PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.)	6. PLATFORM AND OPERATOR NATIONALITY(IES)		7. DATES	
		PLATFORM	OPERATOR	FROM: MO/DAY/YR	TO: MO/DAY/YR
N/A	BUOY		USA	04/01/88	04/30/88

8. ARE DATA PROPRIETARY?

☒ 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?)

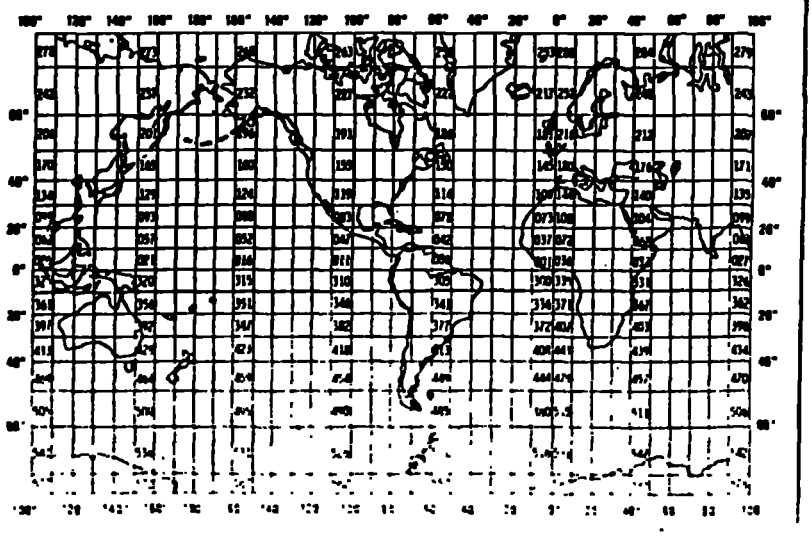
☒ NO ☐ YES ☐ PART *(SPECIFY BELOW)*

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

Sallie P. Nolan
8-494-1721

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

GENERAL AREA



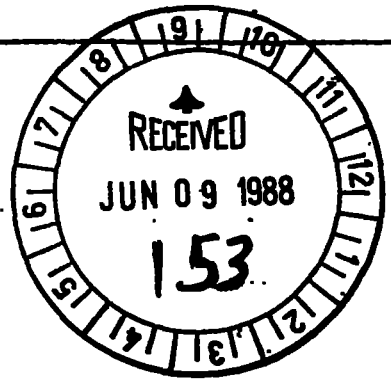
C. DATA FORMAT

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

Record type "1" (position 10) is Descriptive. The file, platform location, sampling and originator are described.
Record type "2" is Environmental Data. File keys are included along with meteorology and wave conditions.
Record type "3" is Wave Spectra Data.
Record type "4" is Subsurface Temperature Data.
Record type "5" is other Subsurface Data.
Record type "6" is Co and Quad Spectra for Directional Waves.
Record type "7" is Angular Fourier Coefficients for Directional Waves.
Record type "8" is Directional Wave Data.

2. GIVE BRIEF DESCRIPTION OF FILE ORGANIZATION



3. ATTRIBUTES AS EXPRESSED IN ☐ PL-1 ☐ ALGOL ☐ CODOL ☒ 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)*

12. PHYSICAL BLOCK LENGTH IN BYTES: 4080

13. LENGTH OF BYTES IN BITS: 8

RECORD FORMAT DESCRIPTION

RECORD NAME File Name: Meteorology and Wave Spectra (File Type "191")

14. FIELD NAME	15. POSITION FROM-1 MEASURED IN (e.g., bits, bytes)	16. LENGTH NUMBER	16. LENGTH UNITS	17. ATTRIBUTES	18. USE AND MEANING
DESCRIPTIVE HEADER RECORD					
FILE TYPE	1	3		A3	"191" (constant)
FILE DATE	4	6		3I2	Yr.,Mo.,Day of file generation
RECORD TYPE	10	1		A1	"1" Descriptive header record)
STATION	11	6		A6	Unique name of observation point
OBSERVED DATE	17	6		3I2	Year, Month, Day (GMT)
OBSERVED TIME	23	4		2I2	Hours, Minutes (GMT)
LATITUDE	27	6		3I2	Degrees, Minutes, Seconds
LAT. HEMISPHERE	33	1		A1	"N" or "S" Hemisphere
LONGITUDE	34	7		I3, 2I2	Degrees, Minutes, Seconds
LON. HEMISPHERE	41	1		A1	"E" or "W" Hemisphere
BOTTOM DEPTH	42	5		I5	Meters to tenths
MAGNETIC VARIATION	47	4		I4	Whole degrees from true north (signed value)
BUOY HEADING*	51	3		I3	Whole degrees from true north
WAVE SAMPLING RATE*	54	4		I4	Original measurements per minute to tenths
WAVE SAMPLING DURATION*	58	4		I4	Minutes to hundredths
WAVE TOTAL INTERVALS*	62	3		I3	Number of frequency intervals
CHIEF SCIENTIST	65	20		A20	(optional)
INSTITUTION	85	20		A20	Data source
WIND SAMPLING DURATION	105	3		I3	Minutes to tenths
COMMENTS	108	13		A13	
*for buoy data only					RECORD LENGTH IS 120
ENVIRONMENTAL DATA RECORD					
FILE TYPE	1	3		A3	"191" (constant)
FILE DATE	4	6		3I2	Yr.,Mo.,Day of file generation
RECORD TYPE	10	1		A1	"2" (environmental data rec.)
STATION	11	6		A6	Unique name of observation point
OBSERVED DATE	17	6		3I2	Year, Month, Day (GMT)
OBSERVED TIME	23	4		2I2	Hours, Minutes (GMT)
ALTITUDE	27	3		I3	Meteorology alt., meters to tenths
AIR TEMP	30	4		I4	Temperature, Celsius to tenths
DEW POINT	34	4		I4	Temperature, Celsius to tenths
BAROMETER	38	5		I5	Millibars to tenths (reduced to sea level)
WIND SPEED	43	4		I4	Meters/sec. to hundredths
WIND DIRECTION	47	4		I4	From true north, degrees to tenths
WEATHER	51	1		I1	Current weather (WMO Code 4501)
VISIBILITY	52	3		I3	Nautical miles, to tenths

RECORD FORMAT DESCRIPTION

RECORD NAME File Type "191"

14. FIELD NAME	15. POSITION FROM-1 MEASURED IN (e.g., bits, bytes)	16. LENGTH NUMBER	16. LENGTH UNITS	17. ATTRIBUTES	18. USE AND MEANING
PRECIPITATION	55	4		I4	Accumulation in millimeters
SOLAR RADIATION	59	3		I3	Langleys/minute to hundredths - wave length less than 3.6
SOLAR RADIATION	62	3		I3	Langleys/minute to hundredths wave length from 4.0 to 50 microns
SIGNIFICANT WAVE HEIGHT	65	3		I3	Meters to tenths, corrected for low frequency noise, etc.
AVERAGE WAVE PERIOD	68	3		I3	Seconds to tenths
DOMINANT WAVE DIRECTION	71	3		I3	Direction of predominant waves in whole degrees from true N
HIGHEST CREST	74	3		I3	Meters to tenths, from reference level
DEEPEST TROUGH SEA SURFACE	77	3		I3	Meters to tenths, from reference level
TEMPERATURE SEA SURFACE	80	4		I4	Temperature Celsius to hundredths
SALINITY	84	5		I5	Parts per thousand to thousandths
CONDUCTIVITY	89	5		I5	Millimhos/cm to thousandths
DOMINANT WAVE PERIOD	94	3		I3	Seconds to tenths
MAXIMUM WAVE HEIGHT	97	3		I3	Meters to tenths.
MAXIMUM WAVE STEEPNESS	100	3		I3	To be defined
WIND GUST	103	4		I4	Meters/sec. to hundredths
WIND GUST(avg.pd.) AVERAGING PERIOD	107	2		I2	Seconds
WIND GUST	109	4		I4	Meters/sec. to hundredths
WIND GUST	113	2		I2	Seconds
WIND SPEED(58 min. average)	115	3		I3	Meters/sec. to tenths whole degrees
WIND DIRECTION(58 min. average)	118	3		I3	Whole degrees
WAVE SPECTRA DATA RECORD					
FILE TYPE	1	3		A3	"191" (constant)
FILE DATE	4	6		3I2	Yr.,Mo.,Day of file generation
RECORD TYPE	10	1		A1	"3"(Wave Spectra Data Record)
STATION	11	6		A6	Unique name of observation point
OBSERVED DATE	17	6		3I2	Year, Month, Day (GMT)
OBSERVED TIME	23	4		2I2	Hours, Minutes (GMT)
INTERVALS PER DIRECTION	27	3		I3	Zero for non-directional spectra, or total number of frequencies in this direction
DIRECTION	30	4		I4	Blank for non-directional spectra, or degrees to tenths from true N for frequencies on this record

RECORD FORMAT DESCRIPTION

RECORD NAME File Type "191"

14. FIELD NAME	15. POSITION FROM-1 MEASURED IN _____ (e.g., bits, bytes)	16. LENGTH NUMBER	16. LENGTH UNITS	17. ATTRIBUTES	18. USE AND MEANING
WAVE SPECTRA DATA RECORD (cont'd)					
COUNT	34	1		I1	Number of frequencies on this record
DATA	35	70		5(2I4,I6)	Up to 5 Frequency, Resolution, Density fields. Null fields blank
Frequency	35, 49, 63, 77, 91	4		I4	Center frequency of interval in Hertz to thousandths
Resolution	39, 53, 67, 81, 95	4		I4	Resolution of interval in Hertz to ten-thousandths
Density	43, 57, 71, 85, 99	6		I6	Spectral Density of interval in m^2/Hz to thousandths
BLANKS	105	16		16X	Fill the fixed length record
SUBSURFACE TEMPERATURE DATA RECORD					
FILE TYPE	1	3		A3	"191" (constant)
FILE DATE	4	6		3I2	Yr.,Mo.,Day of file generation
RECORD TYPE	10	1		A1	"4" (Subsurface Temperature Data Record)
STATION	11	6		A6	Unique name of observation point
OBSERVED DATE	17	6		3I2	Year, Month, Day (GMT)
OBSERVED TIME	23	4		2I2	Hours, Minutes (GMT)
DATA	27	90		I0(I5,I4)	Up to 10 Depth and temperature fields
Depth	27, 36, 45, 54, 63, 72, 81, 90, 99, 108	5		I5	Obs. level, meters to tenths
Temperature	32, 41, 50, 59, 68, 77, 86, 95, 104, 113	4		I4	Degrees Celsius to hundredths (include Sea Surface Temperature
BLANKS	117	4		4X	Fill the fixed length record
SUBSURFACE DATA RECORD					
FILE TYPE	1	3		A3	"191" (constant)
FILE DATE	4	6		3I2	Yr.,Mo.,Day of file generation
RECORD TYPE	10	1		A1	"5" (Subsurface Data Record)
STATION	11	6		A6	Unique name of observation point
OBSERVED DATE	17	6		3I2	Year, Month, Day (GMT)
OBSERVED TIME	23	4		2I2	Hours, Minutes (GMT)
DATA	27	90		3(I5,I5,I5 I5,I5,I5)	Up to 3 Depth, U Component, V Component, Pressure, Conductivity, Salinity fields
Depth	27, 57, 87	5		I5	Obs. Level, meters to tenths

RECORD FORMAT DESCRIPTION

RECORD NAME File Type "191"

14. FIELD NAME	15. POSITION FROM-1 MEASURED IN (e.g., bits, bytes)	16. LENGTH NUMBER	16. LENGTH UNITS	17. ATTRIBUTES	18. USE AND MEANING
SUBSURFACE DATA RECORD (cont'd)					
U Component	32, 62, 92	5		I5	East vector in cm/sec. to tenths
V Component	37, 67, 97	5		I5	True north vector in cm/sec. to tenths
Pressure	42, 72,102	5		I5	Kg./cm^2 to hundredths
Conductivity	47, 77,107	5		I5	Milliomhos/cm. to thousandths
Salinity	52, 82,112	5		I5	Parts per 1000 to thousandths
BLANKS	117	4		4X	Fill the fixed length record

RECORD FORMAT DESCRIPTION

RECORD NAME File Type "191"

14. FIELD NAME	15. POSITION FROM-1 MEASURED IN _____ (e.g., bits, bytes)	16. LENGTH NUMBER	16. LENGTH UNITS	17. ATTRIBUTES	18. USE AND MEANING
CO AND QUAD SPECTRA FOR DIRECTIONAL WAVES					
FILE TYPE	1	3	Bytes	I3	Always "191"
BLANK	4	6	Bytes	6x	Blank - for use by NODC
RECORD TYPE	10	1	Bytes	A1	Always "6"
STATION NUMBER	11	6	Bytes	A6	Unique name of observation point
OBSERVED DATE	17	6	Bytes	3I2	Year, month, day (GMT)
OBSERVED TIME	23	4	Bytes	2I2	Hours, minutes (GMT)
FREQUENCY	27	4	Bytes	I4	Center frequency of interval in Hz to .001
SPECTRAL RESOLUTION	31	5	Bytes	I5	Spectral resolution of this frequency band in Hz to ten thousandths
CO-SPECTRA C_{11}	36	6	Bytes	Signed Integers I6	Up to 9 uncorrected values of Co and Quad spectra in meters squared/Hz. The order these spectra are presented is: C_{11}, C_{22}, C_{33}, C_{12}, Q_{12}, C_{13}, Q_{13}, C_{23}, and Q_{23}
EXPONENT	42	2	Bytes	I2	Where subscripts are defined as follows:
CO-SPECTRA C_{22}	44	6	Bytes	I6	1. Heave
EXPONENT	50	2	Bytes	I2	2. E-W Slope
CO-SPECTRA C_{33}	52	6	Bytes	I6	3. N-S Slope
EXPONENT	58	2	Bytes	I2	
CO-SPECTRA C_{12}	60	6	Bytes	I6	
EXPONENT	66	2	Bytes	I2	If the exponent is less than -9
QUAD-SPECTRA Q_{12}	68	6	Bytes	I6	the exponent and its associated
EXPONENT	74	2	Bytes	I2	spectra should be zero
CO-SPECTRA C_{13}	76	6	Bytes	I6	
EXPONENT	82	2	Bytes	I2	
QUAD-SPECTRA Q_{13}	84	6	Bytes	I6	
EXPONENT	90	2	Bytes	I2	
CO-SPECTRA C_{23}	92	6	Bytes	I6	
EXPONENT	98	2	Bytes	I2	
QUAD-SPECTRA Q_{23}	100	6	Bytes	I6	
EXPONENT	106	2	Bytes	I2	
$C_{22} - C_{33}$	108	6	Bytes	I6	
EXPONENT	114	2	Bytes	I2	
BLANKS	116	5	Bytes	5x	

RECORD FORMAT DESCRIPTION

RECORD NAME File Type "191"

14. FIELD NAME	15. POSITION FROM-1 MEASURED IN (e.g., bits, bytes)	16. LENGTH NUMBER	16. LENGTH UNITS	17. ATTRIBUTES	18. USE AND MEANING
ANGULAR COEFFICIENTS FOR DIRECTIONAL WAVES					
FILE TYPE	1	3	Bytes	I3	Always "191"
BLANK	4	6	Bytes	6x	Blank - for use by NODC
RECORD TYPE	10	1	Bytes	A1	Always "7"
STATION NUMBER	11	6	Bytes	A6	Same as "1"
OBSERVED DATE	17	6	Bytes	3I2	Year, month, day (GMT)
OBSERVED TIME	23	4	Bytes	2I2	Hour, minutes (GMT)
FREQUENCY	27	4	Bytes	I4	Center frequency of interval Hz to .001
SPECTRAL RESOLUTION	31	5	Bytes	I5	Spectral resolution of this frequency band in Hz to ten thousandths
ANGULAR FOURIER	36	6	Bytes	signed integers I6	Up to 9 corrected values of the angular fourier coefficients in meters^2/Hz. The order of these coefficients is: $a_0, a_1, b_1, a_2, b_2, a_3, b_3, a_4, b_4$
EXPONENT	42	2	Bytes	I2	
ANGULAR FOURIER COEFFICIENT	44	6	Bytes	I6	
EXPONENT	50	2	Bytes	I2	
ANGULAR FOURIER COEFFICIENT	52	6	Bytes	I6	
EXPONENT	58	2	Bytes	I2	
ANGULAR FOURIER COEFFICIENT	60	6	Bytes	I6	
EXPONENT	66	2	Bytes	I2	
ANGULAR FOURIER COEFFICIENT	68	6	Bytes	I6	
EXPONENT	74	2	Bytes	I2	
ANGULAR FOURIER COEFFICIENT	76	6	Bytes	I6	
EXPONENT	82	2	Bytes	I2	
ANGULAR FOURIER COEFFICIENT	84	6	Bytes	I6	
EXPONENT	90	2	Bytes	I2	
ANGULAR FOURIER COEFFICIENT	92	6	Bytes	I6	
EXPONENT	98	2	Bytes	I2	
ANGULAR FOURIER COEFFICIENT	100	6	Bytes	I6	
EXPONENT	106	2	Bytes	I2	
MEAN WAVE DIRECTION	108	3	Bytes	I3	Mean wave direction given by arctan b_1/a_1 in whole degrees from true north(opt. entry)
BLANKS	111	10	Bytes	10X	Blanks

PARAMETER	DESCRIPTION	SC
DIRECTIONAL WAVE PARAMETER		
RECORD	Always '8'	10
STATION	See Record '1'	11
OBSERVED DATE (GMT)	YYMMDD	17
OBSERVED TIME	HHMM	23
COUNT	X - Number of Frequencies on this Record (=1,2,or3)	27
FREQUENCY	XXXX - Center of Band in HZ to Ten-Thousandths	28
RESOLUTION (BANDWIDTH)	XXXX - Bandwidth in HZ to Ten-Thousandths	32
R1 (see below)	XXXX - Recorded to Nearest Hundredth	36
R2 (see below)	XXXX - Recorded to Nearest Hundredth	40
A1 (see below)	XXXX - Recorded in Degrees to Tenths	44
A2 (see below)	XXXX - Recorded in Degrees to Tenths	48
C11S (see below)	XXXXXX - Recorded in Meters Squared/HZ to Thousandths	52
FREQUENCY	XXXX - Center of Band in HZ to Ten-Thousandths	58
RESOLUTION (BANDWIDTH)	XXXX - Bandwidth in HZ to Ten-Thousandths	62
R1 (see below)	XXXX - Recorded to Nearest Hundredth	66
R2 (see below)	XXXX - Recorded to Nearest Hundredth	70
A1 (see below)	XXXX - Recorded in Degrees to Tenths	74
A2 (see below)	XXXX - Recorded in Degrees to Tenths	78
C11S (see below)	XXXXXX - Recorded in Meters Squared/HZ to Thousandths	82
FREQUENCY	XXXX - Center of Band in HZ to Ten-Thousandths	88
RESOLUTION (BANDWIDTH)	XXXX - Bandwidth in HZ to Ten-Thousandths	92
R1 (see below)	XXXX - Recorded to Nearest Hundredth	96
R2 (see below)	XXXX - Recorded to Nearest Hundredth	100
A1 (see below)	XXXX - Recorded in Degrees to Tenths	104
A2 (see below)	XXXX - Recorded in Degrees to Tenths	108
C11S (see below)	XXXXXX - Recorded in Meters Squared/HZ to Thousandths	112
BLANKS		118

NOTE: DIRECTIONAL WAVE SPECTRA = S(F,A)*D(F,A), in which F = FREQ(HZ), A = Azimuth Angle measured clockwise from North to direction wave is from. D(F,A) = (1/PI)*((1/2)+R1*COS(A-A1)+R2*COS(2*(A-A2))), in which R1 and R2 are dimensionless and A1 and A2 are respectively mean and principal wave directions. In terms of Longuet-Higgins Fourier Coefficients, R1 = (SQRT(A1*A1+B1*B1))/A0, R2 = (SQRT(A2*A2+B2*B2))/A0, A1 = ARCTAN(B1,A1), A2 = (1/2)ARCTAN(B2,A2) + 0 or PI. C11S(M*M/HZ) = (C22+C33)/(K*K) in which K, the propagation constant, is the solution to W*W = G*K*TANH(K*D), in which W = 2*PI*F, G = 9.806 M/(SEC*SEC), and D is mean water depth in meters.

U.S. DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
National Data Buoy Center
NSTL, Mississippi 39529

June 3, 1988

F1804-02
DB3:88-0284
SPN:1m

Ms. I. E. Green
Data Acquisition and Management Branch
National Oceanographic Data Center
1825 Connecticut Avenue, NW
Washington, DC 20235

Dear Ms. Green:

Enclosed are the April 1988 9TK, 1600 BPI, NDBC archive tapes.

Station 46041 for June 1987 through March 1988 contained the following error. Bottom Depth was 42.0 should have been 44.2. The error has been corrected on the April 1988 archive tape.

Please correct the water depth for 46041 in your data base for this time period if possiable.

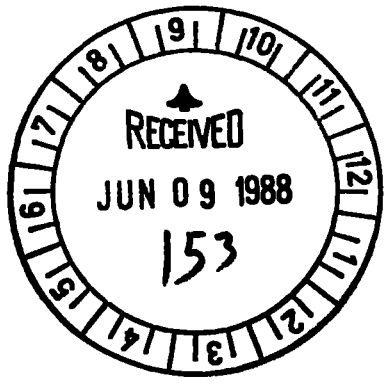
If you have any questions, please call B. G. Redmon at FTS 494-2834, or Commercial (601) 688-2834.

Sincerely,

Sallie P. Nolan

Sallie P. Nolan
ADP Manager

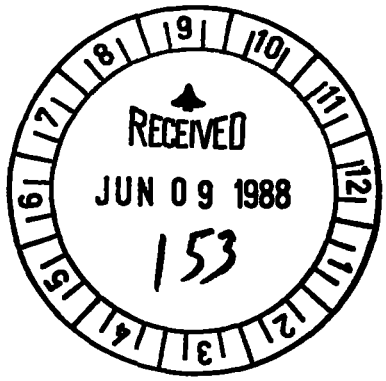
Enclosure



Attachment

Tape 1: 32302 04018800-04308823
41001 04018800-04098820
41002 04018800-04308823
41008 04018800-04308823
42001 04018800-04308823
42002 04018800-04308823
42007 04018800-04308823
42015 04018800-04308823
42016 04208819-04308823
44004 04018800-04308823
44007 04018800-04308823
44008 04018800-04308823
44009 04018800-04308823
44012 04018800-04308823
44013 04018800-04308823
45002 04018800-04308823
45003 04088822-04308823
45004 04038803-04308823
45005 04268800-04308823
45006 04048801-04308823
45007 04018800-04308823

Tape 2: 46001 04018800-04308823
46002 04018800-04308823
46003 04018800-04308823
46004 04018800-04308823
46005 04018800-04308823
46010 04018800-04308823
46011 04018800-04308823
46012 04018800-04308823
46013 04018800-04308823
46014 04018800-04308823
46016 04018800-04308823
46017 04018800-04308823
46022 04018800-04308823
46023 04018800-04308823
46025 04018800-04308823
46026 04018800-04308823
46027 04018800-04308823
46028 04018800-04308823
46030 04018800-04308823
46035 04018800-04308823
46040 04018800-04058813
46041 04018800-04308823
46042 04018800-04308823
46125 04018800-04308823
51001 04108800-04308823
51003 04298800-04308823
51005 04018800-04308823



Tape 3 :ALSN6 04018800-04308823
BURL1 04018800-04308823
BUZM3 04018800-04308823
CARO3 04018800-04308823
CHLV2 04018800-04308823
CLKN7 04018800-04308823
CSBF1 04018800-04308823
DBLN6 04018800-04308823
DESW1 04018800-04308823
DISW3 04298800-04308823
DPIA1 04018800-04308823
DSLN7 04018800-04308823
FBIS1 04018800-04308823
FFIA2 04018800-04308823
FPSN7 04018800-04308823
GDIL1 04018800-04308823
GLLN6 04018800-04308823
IOSN3 04018800-04308823
LKWF1 04018800-04308823
MDRM1 04018800-04308823
MISM1 04018800-04308823
MLRF1 04018800-04308823
MPCL1 04018800-04308823
NWPO3 04018800-04308823
PILM4 04018800-04308823
PTAC1 04018800-04308823
PTAT2 04018800-04308823
PTGC1 04018800-04308823
ROAM4 04018800-04308823
SAUF1 04018800-04308823
SBIO1 04018800-04308823
SGNW3 04018800-04308823
SISW1 04018800-04308823
SMKF1 04018800-04308823
SPGF1 04018800-04308823
SRST2 04018800-04308823
STDM4 04018800-04308823
SVLS1 04018800-04308823
TPLM2 04018800-04308823
TTIW1 04018800-04308823
VENF1 04018800-04308823
WPOW1 04018800-04308823

USER NAME	PHONE #	ORG/TASK #	DATE SUBMITTED	DATE DUE	BIN #
Green, Dick			06-09-88		27

EQUIPMENT TO BE USED AND FUNCTION TO BE PREFORMED

Scan

INPUT MEDIUM	OUTPUT MEDIUM
PAPER CARD DISK (TAPE) DISKETTE OTHER(SPECIFY)	CARD DISK (PRINT) TAPE PLOT DISKETTE OTHER(SPECIFY)

TAPE/DISKETTE INFORMATION

	TAPE #/ DISKETTE	SLOT #	TRK	DENSITY	PARITY	LABEL TYPE	RECORD TYPE	RECORD LENGTH	MAX. BLOCK SIZE	# OF FILES
	A00743		9	1600	odd	NL	FB	120	4800	1
	SECTOR SIZE	EXCHANGE TYPE	CODE: (ASCII) EBCDIC BCD SDF OTHER(SPECIFY)				DATA SET NAME			PURGE DATE
INPUT	TAPE #/ DISKETTE	SLOT #	TRK	DENSITY	PARITY	LABEL TYPE	RECORD TYPE	RECORD LENGTH	MAX. BLOCK SIZE	# OF FILES
	SECTOR SIZE	EXCHANGE TYPE	CODE: ASCII EBCDIC BCD SDF OTHER(SPECIFY)				DATA SET NAME			PURGE DATE
	TAPE #/ DISKETTE	SLOT #	TRK	DENSITY	PARITY TYPE	LABEL TYPE	RECORD TYPE	RECORD LENGTH	MAX. BLOCK SIZE	# OF FILES
OUTPUT	SECTOR SIZE	EXCHANGE TYPE	CODE: ASCII EBCDIC BCD SDF OTHER(SPECIFY)				DATA SET NAME			PURGE DATE

SPECIAL INSTRUCTIONS

ESTIMATED EXECUTION TIME

D731 USE ONLY

JOB #	DATE JOB COMPLETED	START TIME	END TIME	PRIORITY	DEVICES USED, NUMBER OF TAPE MOUNTS, LINES PRINTED DISKETTES USED, CARDS PUNCHED, CARDS KEYVERIFIED
88060406	06/09/88	13:45	13:55	C	COMPLETED BY J.S.

COMMENTS

FT191
April 88
1083

Thomas Rush | | SUBMITTED 06-09-88 | 27

EQUIPMENT TO BE USED AND FUNCTION TO BE PREFORMED

Scan

INPUT MEDIUM
PAPER CARD DISK (TAPE)
DISKETTE OTHER(SPECIFY)

OUTPUT MEDIUM
CARD DISK (PRINT) TAPE PLOT
DISKETTE OTHER(SPECIFY)

TAPE/DISKETTE INFORMATION

	TAPE #/ DISKETTE	SLOT #	TRK	DENSITY	PARITY	LABEL TYPE	RECORD TYPE	RECORD LENGTH	MAX. BLOCK SIZE	# OF FILES
	A00745		9	1600	odd	NL	FB	120	4800	1
	SECTOR SIZE	EXCHANGE TYPE	CODE: (ASCII) EBCDIC BCD SDF OTHER(SPECIFY)				DATA SET NAME			PURGE DATE
INPUT	TAPE #/ DISKETTE	SLOT #	TRK	DENSITY	PARITY	LABEL TYPE	RECORD TYPE	RECORD LENGTH	MAX. BLOCK SIZE	# OF FILES
	SECTOR SIZE	EXCHANGE TYPE	CODE: ASCII EBCDIC BCD SDF OTHER(SPECIFY)				DATA SET NAME			PURGE DATE
	TAPE #/ DISKETTE	SLOT #	TRK	DENSITY	PARITY TYPE	LABEL TYPE	RECORD TYPE	RECORD LENGTH	MAX. BLOCK SIZE	# OF FILES
OUTPUT	SECTOR SIZE	EXCHANGE TYPE	CODE: ASCII EBCDIC BCD SDF OTHER(SPECIFY)				DATA SET NAME			PURGE DATE

SPECIAL INSTRUCTIONS

ESTIMATED EXECUTION TIME

D731 USE ONLY

JOB #	DATE JOB COMPLETED	START TIME	END TIME	PRIORITY	DEVICES USED, NUMBER OF TAPE MOUNTS, LINES PRINTED DISKETTES USED, CARDS PUNCHED, CARDS KEYVERIFIED
$906.00	4/19/88	13:25	13:30	C	COMPLETED BY JS

COMMENTS

FT191
April 88
393

USER NAME	PHONE #	ORG/TASK #	DATE SUBMITTED	DATE DUE	BIN #
Greenbush			06-09-88		27

EQUIPMENT TO BE USED AND FUNCTION TO BE PREFORMED

Scan

INPUT MEDIUM	OUTPUT MEDIUM
PAPER CARD DISK (TAPE) DISKETTE OTHER(SPECIFY)	CARD DISK (PRINT) TAPE PLOT DISKETTE OTHER(SPECIFY)

TAPE/DISKETTE INFORMATION

	TAPE #/ DISKETTE	SLOT #	TRK	DENSITY	PARITY	LABEL TYPE	RECORD TYPE	RECORD LENGTH	MAX. BLOCK SIZE	# OF FILES
INPUT	A00744		9	1600	odd	NL	FB	120	4800	1
	SECTOR SIZE	EXCHANGE TYPE	CODE: (ASCII) EBCDIC BCD SDF OTHER(SPECIFY)				DATA SET NAME			PURGE DATE
INPUT	TAPE #/ DISKETTE	SLOT #	TRK	DENSITY	PARITY	LABEL TYPE	RECORD TYPE	RECORD LENGTH	MAX. BLOCK SIZE	# OF FILES
	SECTOR SIZE	EXCHANGE TYPE	CODE: ASCII EBCDIC BCD SDF OTHER(SPECIFY)				DATA SET NAME			PURGE DATE
	TAPE #/ DISKETTE	SLOT #	TRK	DENSITY	PARITY TYPE	LABEL TYPE	RECORD TYPE	RECORD LENGTH	MAX. BLOCK SIZE	# OF FILES
OUTPUT	SECTOR SIZE	EXCHANGE TYPE	CODE: ASCII EBCDIC BCD SDF OTHER(SPECIFY)				DATA SET NAME			PURGE DATE

SPECIAL INSTRUCTIONS

ESTIMATED EXECUTION TIME

D731 USE ONLY

JOB #	DATE JOB COMPLETED	START TIME	END TIME	PRIORITY	DEVICES USED, NUMBER OF TAPE MOUNTS, LINES PRINTED DISKETTES USED, CARDS PUNCHED, CARDS KEYVERIFIED
900907	06/09/88	13:35	13:40	C	COMPLETED BY J.S.

COMMENTS

FT191
April 88
2083

USER NAME	PHONE #	ORG/TASK #	DATE SUBMITTED	DATE DUE	BIN #
Greg Dirsh			04-18-88		27

EQUIPMENT TO BE USED AND FUNCTION TO BE PREFORMED

Copy to 'W' tape and Scan Output

INPUT MEDIUM
PAPER CARD DISK (TAPE)
DISKETTE OTHER(SPECIFY)

OUTPUT MEDIUM
CARD DISK (PRINT) (TAPE) PLOT
DISKETTE OTHER(SPECIFY)

TAPE/DISKETTE INFORMATION

	TAPE #/ DISKETTE	SLOT #	TRK	DENSITY	PARITY	LABEL TYPE	RECORD TYPE	RECORD LENGTH	MAX. BLOCK SIZE	# OF FILES
INPUT	W08743		9	1600	ODD	NL	FB	120	4800	1
	SECTOR SIZE	EXCHANGE TYPE	CODE: (ASCII) EBCDIC BCD SDF OTHER(SPECIFY)				DATA SET NAME			PURGE DATE
	TAPE #/ DISKETTE	SLOT #	TRK	DENSITY	PARITY	LABEL TYPE	RECORD TYPE	RECORD LENGTH	MAX. BLOCK SIZE	# OF FILES
	SECTOR SIZE	EXCHANGE TYPE	CODE: ASCII EBCDIC BCD SDF OTHER(SPECIFY)				DATA SET NAME			PURGE DATE
	TAPE #/ DISKETTE	SLOT #	TRK	DENSITY	PARITY TYPE	LABEL TYPE	RECORD TYPE	RECORD LENGTH	MAX. BLOCK SIZE	# OF FILES
OUTPUT	W08539		9	1600	ODD	NL	FB	120	4800	1
	SECTOR SIZE	EXCHANGE TYPE	CODE: (ASCII) EBCDIC BCD SDF OTHER(SPECIFY)				DATA SET NAME			PURGE DATE

SPECIAL INSTRUCTIONS

Procedure BRBUOY 10

Mitch 6843; Data

ESTIMATED EXECUTION TIME

D731 USE ONLY

JOB #	DATE JOB COMPLETED	START TIME	END TIME	PRIORITY	DEVICES USED, NUMBER OF TAPE MOUNTS, LINES PRINTED DISKETTES USED, CARDS PUNCHED, CARDS KEYVERIFIED
8806302	04/13/88	09:15	13:15	C	COMPLETED BY J.S.

COMMENTS

Send to Asheville

April 88
1073
FT191

USER NAME	PHONE #	ORG/TASK #	DATE SUBMITTED	DATE DUE	BIN #
Sean, Irish			6-4-88		27

EQUIPMENT TO BE USED AND FUNCTION TO BE PREFORMED

Copy to 'W' tape and Scan output

INPUT MEDIUM
PAPER CARD DISK (TAPE)
DISKETTE OTHER(SPECIFY)

OUTPUT MEDIUM
CARD DISK (PRINT) (TAPE) PLOT
DISKETTE OTHER(SPECIFY)

TAPE/DISKETTE INFORMATION

	TAPE #/ DISKETTE	SLOT #	TRK	DENSITY	PARITY	LABEL TYPE	RECORD TYPE	RECORD LENGTH	MAX. BLOCK SIZE	# OF FILES
INPUT	A00744		9	1600	odd	NL	FB	120	4800	1
	SECTOR SIZE	EXCHANGE TYPE	CODE: (ASCII) EBCDIC BCD SDF OTHER(SPECIFY)				DATA SET NAME			PURGE DATE
	TAPE #/ DISKETTE	SLOT #	TRK	DENSITY	PARITY	LABEL TYPE	RECORD TYPE	RECORD LENGTH	MAX. BLOCK SIZE	# OF FILES
	SECTOR SIZE	EXCHANGE TYPE	CODE: ASCII EBCDIC BCD SDF OTHER(SPECIFY)				DATA SET NAME			PURGE DATE
	TAPE #/ DISKETTE	SLOT #	TRK	DENSITY	PARITY TYPE	LABEL TYPE	RECORD TYPE	RECORD LENGTH	MAX. BLOCK SIZE	# OF FILES
OUTPUT	W08157		9	1600	odd	NL	FB	120	4800	1
	SECTOR SIZE	EXCHANGE TYPE	CODE: (ASCII) EBCDIC BCD SDF OTHER(SPECIFY)				DATA SET NAME			PURGE DATE

SPECIAL INSTRUCTIONS

Procedure BRBUDY //

Mitch, 6864. Dat

ESTIMATED EXECUTION TIME

D731 USE ONLY

JOB #	DATE JOB COMPLETED	START TIME	END TIME	PRIORITY	DEVICES USED, NUMBER OF TAPE MOUNTS, LINES PRINTED, DISKETTES USED, CARDS PUNCHED, CARDS KEYVERIFIED
880613Ø3	Ø6/14/88	Ø7ØØ	12ØØ	C	COMPLETED BY J.S.

COMMENTS

Send to Asheville

April 88

2073

FT191

USER NAME	PHONE #	ORG/TASK #	DATE SUBMITTED	DATE DUE	BIN #
Greenbush			6-9-88		27

EQUIPMENT TO BE USED AND FUNCTION TO BE PREFORMED

Copy to 'W' tape and Scan output

INPUT MEDIUM
PAPER CARD DISK (TAPE)
DISKETTE OTHER(SPECIFY)

OUTPUT MEDIUM
CARD DISK (PRINT) (TAPE) PLOT
DISKETTE OTHER(SPECIFY)

TAPE/DISKETTE INFORMATION

	TAPE #/ DISKETTE	SLOT #	TRK	DENSITY	PARITY	LABEL TYPE	RECORD TYPE	RECORD LENGTH	MAX. BLOCK SIZE	# OF FILES
	A00745		9	1600	odd	NL	FB	120	4800	1
	SECTOR SIZE	EXCHANGE TYPE	CODE: (ASCII) EBCDIC BCD SDF OTHER(SPECIFY)				DATA SET NAME			PURGE DATE
INPUT	TAPE #/ DISKETTE	SLOT #	TRK	DENSITY	PARITY	LABEL TYPE	RECORD TYPE	RECORD LENGTH	MAX. BLOCK SIZE	# OF FILES
	SECTOR SIZE	EXCHANGE TYPE	CODE: ASCII EBCDIC BCD SDF OTHER(SPECIFY)				DATA SET NAME			PURGE DATE
	TAPE #/ DISKETTE	SLOT #	TRK	DENSITY	PARITY TYPE	LABEL TYPE	RECORD TYPE	RECORD LENGTH	MAX. BLOCK SIZE	# OF FILES
	W08977		9	1600	odd	NL	FB	120	4800	1
OUTPUT	SECTOR SIZE	EXCHANGE TYPE	CODE: (ASCII) EBCDIC BCD SDF OTHER(SPECIFY)				DATA SET NAME			PURGE DATE

SPECIAL INSTRUCTIONS

Procedure BRB40Y 12

Mitch 6891.Dat

ESTIMATED EXECUTION TIME

D731 USE ONLY

JOB #	DATE JOB COMPLETED	START TIME	END TIME	PRIORITY	DEVICES USED, NUMBER OF TAPE MOUNTS, LINES PRINTED DISKETTES USED, CARDS PUNCHED, CARDS KEYVERIFIED
88061394	06/14/88	12:05	15:48	C	COMPLETED BY J.S.

COMMENTS

Send to Asteville

April 88
393
FT191

ACCESSION NO 8800152 FILETYPE FT191 TRACK NO BR6843-6863 PROJECT IDENTIFICATION 706A

STEP	DATE	INIT.	TAPE OR DISK DSN	NO. FILES	LRECL	BLK SIZE	NO. RECOR
ORIG. TAPE	6/16/88	DB	A00743	1	120	4800	
DUPLICATE TAPE	6/16/88	DB	W08539*	1	120	4800	
REFORMATTED TAPE							
REFORMATTED DISK							
FIRST MULCHEK							
FINAL MULCHEK							
MPD75 OR F022							
DATA SET FINALIZED							

*Tape is non-label

ERRORS REPORTED TO PRINCIPAL INVESTIGATOR: 208,680 records

ADDITIONAL ERRORS/CORRECTIONS (NOT REPORTED TO P.I.)

D1918

COMMENTS (TRACKS DELETED, FIELDS DELETED, ETC.)

ACCESSION NO. 88000152 FILETYPE FT19I TRACK NO. BR6864-6890 PROJECT IDENTIFICATION TC6A

STEP	DATE	INIT.	TAPE OR DISK DSN	NO. FILES	LRECL	BLK SIZE	NO. RECOR
ORIG. TAPE	6/6/88	[illegible]	A00744	1	120	4800	
DUPLICATE TAPE	6/16/88	[illegible]	W08157*	1	120	4800	
REFORMATTED TAPE							
REFORMATTED DISK							
FIRST MULCHEK							
FINAL MULCHEK							
MPD75 OR F022							
DATA SET FINALIZED							

* Tape is non-label

ERRORS REPORTED TO PRINCIPAL INVESTIGATOR:

ADDITIONAL ERRORS/CORRECTIONS (NOT REPORTED TO P.I.)

COMMENTS (TRACKS DELETED, FIELDS DELETED, ETC.)

ACCESSION NO. 8800152 FILETYPE FT191 TRACK NO. BR6891-6932 PROJECT IDENTIFICATION TOGA

STEP	DATE	INIT.	TAPE OR DISK DSN	NO. FILES	LRECL	BLK SIZE	NO. RECORDS
ORIG. TAPE	6/16/88	[signature]	A00745	1	120	4800	
DUPLICATE TAPE	6/16/88	[signature]	W08077	1	120	4800	
REFORMATTED TAPE							
REFORMATTED DISK							
FIRST MULCHEK							
FINAL MULCHEK							
MPD75 OR F022							
DATA SET FINALIZED							

* Tape is non-label

ERRORS REPORTED TO PRINCIPAL INVESTIGATOR:

ADDITIONAL ERRORS/CORRECTIONS (NOT REPORTED TO P.I.)

COMMENTS (TRACKS DELETED, FIELDS DELETED, ETC.)

8800152

TO: E/OC12 - C. Noe

E/OC11 - P. Hadsell

FROM: E/OC13 - A. Picciolo

DATE: June 17, 1988

SUBJECT: Data Transfer

The following listed data sets have been transferred as indicated:

ARCHIVE AND INVENTORIES BRANCH (E/OC11)

------- Level II --------

Wind/Wave Spectra (F191)

Acc: 8800152 Ref: BR6843 - 6932 90 sta. 475,964 records

April 1988 NDBC

cc: Division Director

TO: E/OC12 - C. Noe

E/OC11 - P. Hadsell

FROM: E/OC13 - A. Picciolo

DATE: June 17, 1988

SUBJECT: Data Transfer

The following listed data sets have been transferred as indicated:

ARCHIVE AND INVENTORIES BRANCH (E/OC11)

------- Level II --------

Wind/Wave Spectra (F191)

Acc: 8800152 Ref: BR6843 - 6932 90 sta. 475,964 records

April 1988 NDBC

cc: Division Director

Password:

accNo	fleA	refNo	proj	inst	ship	startDate	cruise	catId
8800152	F291	BR6927	9999	313B	317F	1988/04/01	STDM4	179334
8800152	F291	BR6928	9999	313B	317F	1988/04/01	SVLS1	179335
8800152	F291	BR6929	9999	313B	317F	1988/04/01	TPLM2	179336
8800152	F291	BR6930	9999	313B	317F	1988/04/01	TTIW1	179337
8800152	F291	BR6931	9999	313B	317F	1988/04/01	VENF1	179338
8800152	F291	BR6932	9999	313B	317F	1988/04/01	WPOW1	179339
8800152	F291	BR6843	9999	313B	317F	1988/04/01	32302	179250
8800152	F291	BR6844	9999	313B	317F	1988/04/01	41001	179251
8800152	F291	BR6845	9999	313B	317F	1988/04/01	41002	179252
8800152	F291	BR6846	9999	313B	317F	1988/04/01	41008	179253
8800152	F291	BR6847	9999	313B	317F	1988/04/01	42001	179254
8800152	F291	BR6848	9999	313B	317F	1988/04/01	42002	179255
8800152	F291	BR6849	9999	313B	317F	1988/04/01	42007	179256
8800152	F291	BR6850	9999	313B	317F	1988/04/01	42015	179257
8800152	F291	BR6851	9999	313B	317F	1988/04/20	42016	179258
8800152	F291	BR6852	9999	313B	317F	1988/04/01	44004	179259
8800152	F291	BR6853	9999	313B	317F	1988/04/01	44007	179260
8800152	F291	BR6854	9999	313B	317F	1988/04/01	44008	179261
8800152	F291	BR6855	9999	313B	317F	1988/04/01	44009	179262
8800152	F291	BR6856	9999	313B	317F	1988/04/01	44012	179263
8800152	F291	BR6857	9999	313B	317F	1988/04/01	44013	179264
8800152	F291	BR6858	9999	313B	317F	1988/04/01	45002	179265
8800152	F291	BR6859	9999	313B	317F	1988/04/08	45003	179266
8800152	F291	BR6860	9999	313B	317F	1988/04/03	45004	179267
8800152	F291	BR6861	9999	313B	317F	1988/04/26	45005	179268
8800152	F291	BR6862	9999	313B	317F	1988/04/04	45006	179269
8800152	F291	BR6863	9999	313B	317F	1988/04/01	45007	179270
8800152	F291	BR6864	9999	313B	317F	1988/04/01	46001	179271
8800152	F291	BR6865	9999	313B	317F	1988/04/01	46002	179272
8800152	F291	BR6866	9999	313B	317F	1988/04/01	46003	179273
8800152	F291	BR6867	9999	313B	317F	1988/04/01	46004	179274
8800152	F291	BR6868	9999	313B	317F	1988/04/01	46005	179275
8800152	F291	BR6869	9999	313B	317F	1988/04/01	46010	179276
8800152	F291	BR6870	9999	313B	317F	1988/04/01	46011	179277
8800152	F291	BR6871	9999	313B	317F	1988/04/01	46012	179278
8800152	F291	BR6872	9999	313B	317F	1988/04/01	46013	179279
8800152	F291	BR6873	9999	313B	317F	1988/04/01	46014	179280
8800152	F291	BR6874	9999	313B	317F	1988/04/01	46016	179281
8800152	F291	BR6875	9999	313B	317F	1988/04/01	46017	179282
8800152	F291	BR6876	9999	313B	317F	1988/04/01	46022	179283
8800152	F291	BR6877	9999	313B	317F	1988/04/01	46023	179284
8800152	F291	BR6878	9999	313B	317F	1988/04/01	46025	179285
8800152	F291	BR6879	9999	313B	317F	1988/04/01	46026	179286
8800152	F291	BR6880	9999	313B	317F	1988/04/01	46027	179287
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8800152	F291	BR6883	9999	313B	317F	1988/04/01	46035	179290
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8800152	F291	BR6885	9999	313B	317F	1988/04/01	46041	179292
8800152	F291	BR6886	9999	313B	317F	1988/04/01	46042	179293
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8800152	F291	BR6890	9999	313B	317F	1988/04/01	51005	179297
8800152	F291	BR6891	9999	313B	317F	1988/04/01	ALSN6	179298
8800152	F291	BR6892	9999	313B	317F	1988/04/01	BURL1	179299

8800152	F291	BR6893	9999	313B	317F	1988/04/01	BUZM3	179300
8800152	F291	BR6894	9999	313B	317F	1988/04/01	CARO3	179301
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8800152	F291	BR6896	9999	313B	317F	1988/04/01	CLKN7	179303
8800152	F291	BR6897	9999	313B	317F	1988/04/01	CSBF1	179304
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8800152	F291	BR6901	9999	313B	317F	1988/04/01	DPIA1	179308
8800152	F291	BR6902	9999	313B	317F	1988/04/01	DSLN7	179309
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8800152	F291	BR6904	9999	313B	317F	1988/04/01	FFIA2	179311
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8800152	F291	BR6906	9999	313B	317F	1988/04/01	GDIL1	179313
8800152	F291	BR6907	9999	313B	317F	1988/04/01	GLLN6	179314
8800152	F291	BR6908	9999	313B	317F	1988/04/01	IOSN3	179315
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8800152	F291	BR6910	9999	313B	317F	1988/04/01	MDRM1	179317
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8800152	F291	BR6912	9999	313B	317F	1988/04/01	MLRF1	179319
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8800152	F291	BR6915	9999	313B	317F	1988/04/01	PILM4	179322
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8800152	F291	BR6920	9999	313B	317F	1988/04/01	SAUF1	179327
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8800152	F291	BR6923	9999	313B	317F	1988/04/01	SISW1	179330
8800152	F291	BR6924	9999	313B	317F	1988/04/01	SMKF1	179331
8800152	F291	BR6925	9999	313B	317F	1988/04/01	SPGF1	179332
8800152	F291	BR6926	9999	313B	317F	1988/04/01	SRST2	179333

(90 rows affected)

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8800152	F291	BR6844	317F	1	2060	88/04/01	88/04/01
8800152	F291	BR6845	317F	1	8586	88/04/01	88/04/01
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8800152	F291	BR6847	317F	1	7182	88/04/01	88/04/01
8800152	F291	BR6848	317F	1	2390	88/04/01	88/04/01
8800152	F291	BR6849	317F	1	3220	88/04/01	88/04/01
8800152	F291	BR6850	317F	1	42970	88/04/01	88/04/01
8800152	F291	BR6851	317F	1	13883	88/04/20	88/04/20
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8800152	F291	BR6859	317F	1	5268	88/04/08	88/04/08
8800152	F291	BR6860	317F	1	6632	88/04/03	88/04/03
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8800152	F291	BR6862	317F	1	6394	88/04/04	88/04/04
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8800152	F291	BR6869	317F	1	7150	88/04/01	88/04/01
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8800152	F291	BR6874	317F	1	452	88/04/01	88/04/01
8800152	F291	BR6875	317F	1	480	88/04/01	88/04/01
8800152	F291	BR6876	317F	1	8542	88/04/01	88/04/01
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8800152	F291	BR6924	317F	1	1412	88/04/01	88/04/01
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