

BR5081-5719

ACCESSION NUMBER

8600399

F191

LATA DOCUMENTATION FORM

October 1986

NOAA FORM 24-13 (2-85)

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. 04-01624 EXPIRES 7/29/87

(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. Ward-Nolan
 NOAA/National Data Buoy Center
 NSTL Station, MS 39529

2. EXPEDITION, PROJECT, OR PROGRAM DURING WHICH DATA WERE COLLECTED
 TUGA
 (Tropical Ocean / Global Atmos. Program)

3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT
 ALRF2, ALSN6, BURL2, BUZM3, CARO3, CALVA,
 CLKN7, CSBF1, DBLN6, DESW2, DESW3, DSLN3,
 FBIS2, FEIA2, FPSN7, GDIL1, GLLN6, IOSN3,
 LKWF2, MORM2, MISM2, NWPO3, PTLM4

4. PLATFORM NAME(S)
 —

5. PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.)
 BUOY

6. PLATFORM AND OPERATOR NATIONALITY(IES)
 PLATFORM OPERATOR FROM: MC, DAY, YR TO: MC, DAY, YR
 BUOY USA 10/01/86 10/31/86

7. ARE DATA PROPRIETARY?
 NO YES
 IF YES, WHEN CAN THEY BE RELEASED FOR GENERAL USE? YEAR MONTH

8. PLEASE DARKEN ALL MARSDEN SQUARES IN WHICH ANY DATA CONTAINED IN YOUR SUBMISSION WERE COLLECTED.
 PTAC1, PIAT2, PTEC1, ROAMY, SAUF1, SBIO2,
 SGNW3, SJSW1, SP6E2, SRST2, STOM4, SVLS1,
 TPLM2, TTJW1, VENF1, WPOW2

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. Ward-Nolan
 FTS-494-1721

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

[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</p> <p><input checked="" type="checkbox"/> ASCII <input type="checkbox"/> EBCDIC</p> <p><input type="checkbox"/> _____</p>	<p>9. LENGTH OF INTER-RECORD GAP (IF KNOWN) <input checked="" type="checkbox"/> 3/4 INCH</p> <p><input type="checkbox"/> _____</p>
<p>6. NUMBER OF TRACKS (CHANNELS)</p> <p><input type="checkbox"/> SEVEN</p> <p><input checked="" type="checkbox"/> NINE</p> <p><input type="checkbox"/> _____</p>	<p>10. END OF FILE MARK</p> <p><input checked="" type="checkbox"/> OCTAL 17</p> <p><input type="checkbox"/> _____</p>
<p>7. PARITY</p> <p><input checked="" type="checkbox"/> ODD</p> <p><input type="checkbox"/> EVEN</p>	<p>11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME LAY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER)</p>
<p>8. DENSITY</p> <p><input type="checkbox"/> 200 BPI <input checked="" type="checkbox"/> 1600 BPI</p> <p><input type="checkbox"/> 556 BPI</p> <p><input type="checkbox"/> 800 BPI</p> <p><input type="checkbox"/> _____</p>	<p>12. PHYSICAL BLOCK LENGTH IN BYTES</p> <p>4080</p> <p>13. LENGTH OF BYTES IN BITS</p> <p>8</p>

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		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
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 *for buoy data only	108	13		A13	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

14. FIELD NAME	15. POSITION FROM-1 MEASURED IN (e.g. bits, bytes)	15. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
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	77	3		I3	Meters to tenths, from reference level
SEA SURFACE TEMPERATURE	80	4		I4	Temperature Celsius to hundredths
SEA SURFACE 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

14. FIELD NAME	15. POSITION FROM-1 MEASURED IN (e.g. bits, bytes)	15. LENGTH		17. ATTRIBUTES	19. USE AND MEANING
		NUMBER	UNITS		
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		10(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		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
SUBSURFACE DATA RECORD (cont'd)					
U Component	32, 62, 92	5		I5	East vector in cm/sec. to tenths True north vector in cm/sec. to tenths
V Component	37, 67, 97	5		I5	
Pressure	42, 72, 102	5		I5	Kg./cm ² to hundredths Milliomhos/cm. to thousandths Parts per 1000 to thousandths
Conductivity	47, 77, 107	5		I5	
Salinity	52, 82, 112	5		I5	
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)	15. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
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 <u>uncorrected</u> 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: 1. Heave 2. E-W Slope 3. N-S Slope If the exponent is less than -9 the exponent and its associated spectra should be zero
CO-SPECTRA C ₂₂	44	6	Bytes	I6	
EXPONENT	50	2	Bytes	I2	
CO-SPECTRA C ₃₃	52	6	Bytes	I6	
EXPONENT	58	2	Bytes	I2	
CO-SPECTRA C ₁₂	60	6	Bytes	I6	
EXPONENT	66	2	Bytes	I2	
QUAD-SPECTRA Q ₁₂	68	6	Bytes	I6	
EXPONENT	74	2	Bytes	I2	
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 NAME File Type "191"

14. FIELD NAME	15. POSITION FROM-1 MEASURED IN (e.g., bits, bytes)	15. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
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 <u>corrected</u> 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.

DIFFERENT TO BE USED AND FUNCTION TO BE PERFORMED

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

TAPE #/ DISKETTE	SLOT #	TRK	DENSITY	PARITY	LABEL TYPE	RECORD TYPE	RECORD LENGTH	MAX. BLOCK SIZE	# OF FIL	
SECTOR SIZE		EXCHANGE TYPE		CODE: ASCII EBCDIC BCD SDF OTHER(SPECIFY)			DATA SET NAME			PUR DAT
TAPE #/ DISKETTE	SLOT #	TRK	DENSITY	PARITY	LABEL TYPE	RECORD TYPE	RECORD LENGTH	MAX. BLOCK SIZE	# OF FIL	
110-385		9	1100	odd	16L	1B	100	4050	1	
SECTOR SIZE		EXCHANGE TYPE		CODE: ASCII EBCDIC BCD SDF OTHER(SPECIFY)			DATA SET NAME			PUR DAT
TAPE #/ DISKETTE	SLOT #	TRK	DENSITY	PARITY	LABEL TYPE	RECORD TYPE	RECORD LENGTH	MAX. BLOCK SIZE	# OF FIL	
SECTOR SIZE		EXCHANGE TYPE		CODE: ASCII EBCDIC BCD SDF OTHER(SPECIFY)			DATA SET NAME			PUR DAT

SPECIAL INSTRUCTIONS

ESTIMATED EXECUTION TIME

31 USE ONLY

DATE JOB COMPLETED	START TIME	END TIME	PRIORITY	DEVICES USED, NUMBER OF TAPE MOUNTS, LINES PRINTED, DISKETTES USED, CARDS PUNCHED, CARDS KEYVERIFIED
1/30/57	1524	1529	C	COMPLETED by FL

F191
 Oct 50
 13

TO: E/OC12 - C. Noe
E/OC11 - P. Hadsell

8600399

FROM: E/OC13 - A. Picciolo FJM

DATE: APRIL 16, 1987

SUBJECT: Data Transfer

The following listed data sets have been transferred as indicated:

ARCHIVES BRANCH (E/OC11)

WIND/WAVE SPECTRA (F191) ✓

ACC: 8600399 REF: BR5081-5119 OCTOBER 86
39 STATIONS 62,260 RECORDS

ACC: 8600399 REF: BR5042-5070 OCTOBER 86
29 STATIONS 171,860 RECORDS

GEOSAT - WIND WAVES (L802)

ACC: 8700069 REF: L00096 1,600,427 OBS.
11-8-86 TO 12-12-86

DATA PROCESSING BRANCH (E/OC12) XBT's

cc: E/OC1 - I. Perlroth

ACCESS NUMBER	REF NUMBER	FILE TYPE	PROJ CODE	INST	PLAT	CRUISE NO	CRUISE START	CRUISE END	NUM STA	NUM REC
8600399	BR5081	F191		313B	317F	ALRF1	10/01/86	10/31/86	1	4,480
8600399	BR5082	F191		313B	317F	ALSN6	10/01/86	10/31/86	1	1,482
8600399	BR5083	F191		313B	317F	BURL1	10/01/86	10/31/86	1	1,476
8600399	BR5084	F191		313B	317F	BUZM3	10/01/86	10/31/86	1	1,124
8600399	BR5085	F191		313B	317F	CARD3	10/01/86	10/31/86	1	1,480
8600399	BR5086	F191		313B	317F	CHLV2	10/01/86	10/31/86	1	7,376
8600399	BR5087	F191		313B	317F	CLKN7	10/01/86	10/31/86	1	4,480
8600399	BR5088	F191		313B	317F	CSBF1	10/01/86	10/31/86	1	4,474
8600399	BR5089	F191		313B	317F	DBLN6	10/01/86	10/31/86	1	4,406
8600399	BR5090	F191		313B	317F	DESW1	10/01/86	10/31/86	1	4,482
8600399	BR5091	F191		313B	317F	DISW3	10/01/86	10/31/86	1	1,484
8600399	BR5092	F191		313B	317F	DSLN7	10/01/86	10/31/86	1	1,478
8600399	BR5093	F191		313B	317F	FBIS1	10/08/86	10/31/86	1	1,106
8600399	BR5094	F191		313B	317F	FFIA2	10/01/86	10/31/86	1	4,480
8600399	BR5095	F191		313B	317F	FPSN7	10/01/86	10/31/86	1	4,482
8600399	BR5096	F191		313B	317F	GDIL1	10/01/86	10/31/86	1	1,476
8600399	BR5097	F191		313B	317F	GLLN6	10/01/86	10/31/86	1	1,462
8600399	BR5098	F191		313B	317F	IOSN3	10/01/86	10/31/86	1	1,482
8600399	BR5099	F191		313B	317F	LKWF1	10/01/86	10/31/86	1	1,480
8600399	BR5100	F191		313B	317F	MDRM1	10/01/86	10/31/86	1	4,482
8600399	BR5101	F191		313B	317F	MISM1	10/01/86	10/31/86	1	4,480
8600399	BR5102	F191		313B	317F	NWPO3	10/01/86	10/31/86	1	4,480
8600399	BR5103	F191		313B	317F	PILM4	10/01/86	10/31/86	1	4,484
8600399	BR5104	F191		313B	317F	PTAC1	10/01/86	10/31/86	1	4,484
8600399	BR5105	F191		313B	317F	PTAT2	10/01/86	10/31/86	1	1,376
8600399	BR5106	F191		313B	317F	PTGC1	10/01/86	10/31/86	1	1,482
8600399	BR5107	F191		313B	317F	ROAM4	10/01/86	10/31/86	1	1,478
8600399	BR5108	F191		313B	317F	SAUF1	10/01/86	10/31/86	1	1,478
8600399	BR5109	F191		313B	317F	SBIO1	10/01/86	10/31/86	1	1,482
8600399	BR5110	F191		313B	317F	SGNW3	10/01/86	10/31/86	1	1,454
8600399	BR5111	F191		313B	317F	SISW1	10/01/86	10/31/86	1	1,422
8600399	BR5112	F191		313B	317F	SPGF1	10/08/86	10/31/86	1	1,120
8600399	BR5113	F191		313B	317F	SRST2	10/01/86	10/31/86	1	1,478
8600399	BR5114	F191		313B	317F	STDM4	10/01/86	10/31/86	1	1,470
8600399	BR5115	F191		313B	317F	SVLS1	10/01/86	10/31/86	1	1,482
8600399	BR5116	F191		313B	317F	TPLM2	10/01/86	10/31/86	1	1,484
8600399	BR5117	F191		313B	317F	TTIW1	10/01/86	10/31/86	1	1,482
8600399	BR5118	F191		313B	317F	VENF1	10/01/86	10/31/86	1	1,478
8600399	BR5119	F191		313B	317F	WPOW1	10/01/86	10/31/86	1	1,494

ACCESSION NO. 8600399

FILETYPE F191

TRACK NO. BR5081-5119

PROJECT IDENTIFICATION T060

STEP	DATE	INIT.	TAPE OR DISK DSN	NO. FILES	RECL	BLK SIZE	RECOI	NO.
ORIG. TAPE	3/4/87	(D)	A00385	1	120	4080		
DUPLICATE TAPE	3/4/87	(D)	*W04945	1	120	4080		
REFORMATTED TAPE								
REFORMATTED DISK								
FIRST MULCHEK	4/27/87		SEL DATA, F191 BR 5081	1	120			62260
FINAL MULCHEK								
MPD75 OR F022	4/30/87		MPD75, F191 BR 5081 / F191					
DATA SET FINALIZED	4/30/87			1	120			62260

* Tape is non-label

ERRORS REPORTED TO PRINCIPAL INVESTIGATOR:

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

COMMENTS (TRACKS DELETED, FIELDS DELETED, ETC.)

DATE 10/86 STATION ID

	POSITIONS		WAVES	STATION
LAT.		LONG.		TYPE
32302	18.0	85.1	WA	BUOY
41001	34.9	72.9	WDA	BUOY
41002	32.3	75.3	WDA	BUOY
41006	29.3	77.4	WDA	BUOY
42001	25.9	89.7	WDA	BUOY
42003	26.0	85.9	WDA	BUOY
42007	30.1	88.9	WDA	BUOY
42009	29.3	87.5	WDA	BUOY
44004	38.5	70.7	WDA	BUOY
44005	42.7	68.3	WDA	BUOY
44007	43.5	70.1	WA	BUOY
44008	40.5	69.5	WA	BUOY
44009	38.5	74.6	WA	BUOY
44011	41.1	66.6	WDA	BUOY
44012	38.8	74.6	WA	BUOY
44013	42.4	70.8	WA	BUOY
45001	48.0	87.7	WDA	BUOY
45002	45.3	86.4	WA	BUOY
45003	45.3	82.8	WA	BUOY
45004	47.6	86.5	WA	BUOY
45005	41.7	82.4	N/A	BUOY
45006	47.3	89.8	WA	BUOY
45007	42.7	87.1	WA	BUOY
45008	44.3	82.4	WA	BUOY
46001	56.3	148.3	N/A	BUOY
46002	42.5	130.3	WDA	BUOY
46003	51.9	155.9	WDA	BUOY
46004	50.9	135.9	WDA	BUOY
46005	46.1	131.0	N/A	BUOY
46006	40.8	137.6	WDA	BUOY
46010	46.2	124.2	WA	BUOY
46011	34.9	120.9	WDA	BUOY
46012	37.4	122.7	WA	BUOY
46013	38.2	123.3	WDA	BUOY
46014	39.2	124.0	WDA	BUOY
46016	63.3	170.3	N/A	LAND
46017	60.3	172.3	N/A	LAND
46022	40.8	124.5	WDA	BUOY
46023	34.3	120.7	WDA	BUOY
46025	33.7	119.1	WDA	BUOY
46026	37.8	122.7	WDA	BUOY
46028	35.8	121.9	WDA	BUOY
46029	46.2	124.2	N/A	BUOY
46030	40.4	124.5	N/A	BUOY
46035	57.0	177.7	WDA	BUOY
46036	48.3	133.9	WDA	BUOY
46037	48.3	133.8	N/A	BUOY
46038	41.9	124.4	N/A	BUOY
51001	23.4	162.3	WDA	BUOY
51002	17.2	157.8	WDA	BUOY
51003	19.2	160.8	WDA	BUOY
51004	17.5	152.6	WDA	BUOY
51005	20.4	156.1	WA	BUOY
ALRF1	24.9	80.6	N/A	LAND
ALSN6	40.5	73.8	N/A	LAND
BURL1	28.9	89.4	N/A	LAND
BUZM3	41.4	71.0	N/A	LAND
CAR03	43.3	124.4	N/A	LAND
CHLV2	36.9	75.7	WA	LAND

CLKN7	34.6	76.5	N/A	LAND
CSBF1	29.7	85.4	N/A	LAND
DELN6	42.5	79.4	N/A	LAND
DESN1	47.7	124.5	N/A	LAND
DISH3	47.1	90.7	N/A	LAND
DSLN7	35.2	75.3	N/A	LAND
FBIS1	32.7	79.9	N/A	LAND
FFIA2	57.3	133.6	N/A	LAND
FPSN7	33.5	77.6	N/A	LAND
GDIL1	29.3	90.0	N/A	LAND
GLLN6	43.9	76.4	N/A	LAND
IOSN3	43.0	70.6	N/A	LAND
LKWF1	26.6	80.0	N/A	LAND
MDRM1	44.0	68.1	N/A	LAND
MISM1	43.8	68.9	N/A	LAND
NWPO3	44.6	124.1	N/A	LAND
PILM4	48.2	88.4	N/A	LAND
PTAC1	39.0	123.7	N/A	LAND
PTAT2	27.8	97.1	N/A	LAND
PTGC1	34.6	120.7	N/A	LAND
ROAM4	47.9	89.3	N/A	LAND
SAUF1	29.9	81.3	N/A	LAND
SBID1	41.6	82.8	N/A	LAND
SGNW3	43.8	87.7	N/A	LAND
SISW1	48.3	122.9	N/A	LAND
SPGF1	26.7	79.0	N/A	LAND
SRST2	29.7	94.1	N/A	LAND
STDM4	47.2	87.2	N/A	LAND
SVLS1	32.0	80.7	N/A	LAND
TPLM2	38.9	76.4	N/A	LAND
TTIW1	48.4	124.7	N/A	LAND
VENF1	27.1	82.5	N/A	LAND
WPOW1	47.7	122.4	N/A	LAND

86
510303

000	PPPR	EEEE	RRRR	AAA	TTTTT	000	RRRR
0 0	P P	E	R P	A A	T	0 0	R R
0 0	P P	E	R R	A A	T	0 0	R R
0 0	PPPP	EEEE	RRRR	A A	T	0 0	RRRR
0 0	P	E	R R	AAAAA	T	0 0	R R
0 0	P	E	R R	A A	T	0 0	R R
000	P	EEEE	R R	A A	T	000	R R

BBB	UU	UU	000000	YY	YY
BBB	UU	UU	000000	YY	YY
BB	BB	UU	00	00	YY
BB	BB	UU	00	00	YY
BB	BB	UU	00	00	YY YY
BB	BB	UU	00	00	YY YY
BBB	UU	UU	00	00	YY
BBB	UU	UU	00	00	YY
BB	BB	UU	00	00	YY
BB	BB	UU	00	00	YY
BB	BB	UU	00	00	YY
BB	BB	UU	00	00	YY
BBB	UUUUUUUUUU	UUUUUUUUUU	000000	YY	YY
BBB	UUUUUUUUUU	UUUUUUUUUU	000000	YY	YY

DDDDDDDD	AAAAAA	TTTTTTTTTT	:::	11
DDDDDDDD	AAAAAA	TTTTTTTTTT	:::	11
DD	DD AA AA	TT	:::	1111
DD	DD AA AA	TT	:::	1111
DD	DD AA AA	TT		11
DD	DD AA AA	TT		11
DD	DD AA AA	TT	:::	11
DD	DD AA AA	TT	:::	11
DD	DD AAAAAAAAAA	TT	:::	11
DD	DD AAAAAAAAAA	TT	:::	11
....	DD DD AA AA	TT	::	11
....	DD DD AA AA	TT	::	11
....	DDDDDDDD	AA AA	::	111111
....	DDDDDDDD	AA AA	::	111111

#ERROR: BLANK RECORD FOR RECORD NUMBER 172287
RECORD IS NOT WRITTEN TO OUTPUT.
#ERROR: BLANK RECORD FOR RECORD NUMBER 172288
RECORD IS NOT WRITTEN TO OUTPUT.
#ERROR: BLANK RECORD FOR RECORD NUMBER 172289
RECORD IS NOT WRITTEN TO OUTPUT.
#ERROR: BLANK RECORD FOR RECORD NUMBER 172290
RECORD IS NOT WRITTEN TO OUTPUT.
#ERROR: BLANK RECORD FOR RECORD NUMBER 172291
RECORD IS NOT WRITTEN TO OUTPUT.
#ERROR: BLANK RECORD FOR RECORD NUMBER 172292
RECORD IS NOT WRITTEN TO OUTPUT.
#ERROR: BLANK RECORD FOR RECORD NUMBER 172293
RECORD IS NOT WRITTEN TO OUTPUT.
#ERROR: BLANK RECORD FOR RECORD NUMBER 172294
RECORD IS NOT WRITTEN TO OUTPUT.
#ERROR: BLANK RECORD FOR RECORD NUMBER 172295
RECORD IS NOT WRITTEN TO OUTPUT.
#ERROR: BLANK RECORD FOR RECORD NUMBER 172296
RECORD IS NOT WRITTEN TO OUTPUT.
#ERROR: BLANK RECORD FOR RECORD NUMBER 172297
RECORD IS NOT WRITTEN TO OUTPUT.
#ERROR: BLANK RECORD FOR RECORD NUMBER 172298
RECORD IS NOT WRITTEN TO OUTPUT.
#ERROR: BLANK RECORD FOR RECORD NUMBER 172299
RECORD IS NOT WRITTEN TO OUTPUT.
#ERROR: BLANK RECORD FOR RECORD NUMBER 172300
RECORD IS NOT WRITTEN TO OUTPUT.
#ERROR: BLANK RECORD FOR RECORD NUMBER 172301
RECORD IS NOT WRITTEN TO OUTPUT.
#ERROR: BLANK RECORD FOR RECORD NUMBER 172302
RECORD IS NOT WRITTEN TO OUTPUT.
#ERROR: BLANK RECORD FOR RECORD NUMBER 172303
RECORD IS NOT WRITTEN TO OUTPUT.
#ERROR: BLANK RECORD FOR RECORD NUMBER 172304
RECORD IS NOT WRITTEN TO OUTPUT.
#ERROR: BLANK RECORD FOR RECORD NUMBER 172305
RECORD IS NOT WRITTEN TO OUTPUT.
#ERROR: BLANK RECORD FOR RECORD NUMBER 172306
RECORD IS NOT WRITTEN TO OUTPUT.
#ERROR: BLANK RECORD FOR RECORD NUMBER 172307
RECORD IS NOT WRITTEN TO OUTPUT.
#ERROR: BLANK RECORD FOR RECORD NUMBER 172308
RECORD IS NOT WRITTEN TO OUTPUT.
#ERROR: BLANK RECORD FOR RECORD NUMBER 172309
RECORD IS NOT WRITTEN TO OUTPUT.
#ERROR: BLANK RECORD FOR RECORD NUMBER 172310
RECORD IS NOT WRITTEN TO OUTPUT.
#ERROR: BLANK RECORD FOR RECORD NUMBER 172311
RECORD IS NOT WRITTEN TO OUTPUT.
#ERROR: BLANK RECORD FOR RECORD NUMBER 172312
RECORD IS NOT WRITTEN TO OUTPUT.

LAST RECORD ENDS WITH #23031

END OF DATA IN TAPE
** EOF ** CLOSE CLIP 0
E N D O F J O B
E N D O F J O B

Reference #

BR5042-5070

ACCESSION NUMBER

8600399

F191

DATA DOCUMENTATION FORM

October 1986

OAA FORM 74-13
-251

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEANOGRAPHIC DATA CENTER
RECORDS SECTION
WASHINGTON, DC 20238

FORM APPROVED
O.M. No. 0-45 0624
EXPIRES 2/29/87

(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. Ward-Nolan NOAA/National Data Buoy Center NSTL Station, MS 39529			
2. EXPEDITION, PROJECT, OR PROGRAM DURING WHICH DATA WERE COLLECTED TOGA (Tropical Ocean / Global Atmos. Program)		3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT 46001-46006, 46010-46014, 46016, 46017, 46022, 46023, 46025, 46026, 46028-46030, 46035-46038, 51001-51005	
4. PLATFORM NAME(S) —	5. PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.) Buoy	6. PLATFORM AND OPERATOR NATIONALITY(IES) PLATFORM OPERATOR Buoy USA	7. DATES FROM: MC, DAY, YR TO: MC, DAY, YR 10/01/86 10/31/86
8. ARE DATA PROPRIETARY? <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES IF YES, WHEN CAN THEY BE RELEASED FOR GENERAL USE? YEAR ___ MONTH ___		11. PLEASE DARKEN ALL MARSDEN SQUARES IN WHICH ANY DATA CONTAINED IN YOUR SUBMISSION WERE COLLECTED. GENERAL AREA	
9. ARE DATA DECLARED NATIONAL PROGRAM (DNP)? (I.E., SHOULD THEY BE INCLUDED IN WORLD DATA CENTERS HOLDINGS FOR INTERNATIONAL EXCHANGE?) <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES <input type="checkbox"/> PART (SPECIFY BELOW)		10. PERSON TO WHOM INQUIRIES CONCERNING DATA SHOULD BE ADDRESSED WITH TELEPHONE NUMBER (AND ADDRESS IF OTHER THAN IN ITEM-1) Sallie P. Ward-Nolan FTS-494-1721	

C. DATA FORMAT

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

LIST RECORD TYPES CONTAINED IN THE TRANSMITTAL OF YOUR FILE
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 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</p> <p><input checked="" type="checkbox"/> ASCII <input type="checkbox"/> EBCDIC</p> <p><input type="checkbox"/> _____</p>	<p>9. LENGTH OF INTER-RECORD GAP (IF KNOWN) <input checked="" type="checkbox"/> 3/4 INCH</p> <p><input type="checkbox"/> _____</p>
<p>6. NUMBER OF TRACKS (CHANNELS)</p> <p><input type="checkbox"/> SEVEN</p> <p><input checked="" type="checkbox"/> NINE</p> <p><input type="checkbox"/> _____</p>	<p>10. END OF FILE MARK</p> <p><input checked="" type="checkbox"/> OCTAL 17</p> <p><input type="checkbox"/> _____</p>
<p>7. PARITY</p> <p><input checked="" type="checkbox"/> ODD</p> <p><input type="checkbox"/> EVEN</p>	<p>11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME LAY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER)</p>
<p>8. DENSITY</p> <p><input type="checkbox"/> 200 BPI <input checked="" type="checkbox"/> 1600 BPI</p> <p><input type="checkbox"/> 556 BPI</p> <p><input type="checkbox"/> 800 BPI</p> <p><input type="checkbox"/> _____</p>	<p>12. PHYSICAL BLOCK LENGTH IN BYTES</p> <p style="text-align: center;">4080</p>
	<p>13. LENGTH OF BYTES IN BITS</p> <p style="text-align: center;">8</p>

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)	15. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
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

14. FIELD NAME	15. POSITION FROM-1 MEASURED IN <small>(e.g., bits, bytes)</small>	15. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMB.R	UNITS		
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

14. FIELD NAME	15. POSITION FROM-1 MEASURED IN (e.g., 31m, 47m)	15. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
WAVE SPECTRA DATA RECORD (cont'd)					
COUNT	34	1		I1	Number of frequencies on this record
DATA	35	70		5(214,16)	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		10(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 NAME File Type "191"

14. FIELD NAME	15. POSITION FROM-1 MEASURED IN <small>(e.g., Mts, bytes)</small>	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
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 NAME File Type "191"

14. FIELD NAME	15. POSITION FROM-1 MEASURED IN (e.g., bits, bytes)	15. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
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 <u>uncorrected</u> 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: 1. Heave 2. E-W Slope 3. N-S Slope If the exponent is less than -9 the exponent and its associated spectra should be zero
CO-SPECTRA C ₂₂	44	6	Bytes	I6	
EXPONENT	50	2	Bytes	I2	
CO-SPECTRA C ₃₃	52	6	Bytes	I6	
EXPONENT	58	2	Bytes	I2	
CO-SPECTRA C ₁₂	60	6	Bytes	I6	
EXPONENT	66	2	Bytes	I2	
QUAD-SPECTRA Q ₁₂	68	6	Bytes	I6	
EXPONENT	74	2	Bytes	I2	
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	

14. FIELD NAME	15. POSITION FROM-1 MEASURED IN (e.g., bits, bytes)	15. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
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 <u>corrected</u> 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
Cl1S (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
Cl1S (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
Cl1S (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 . $Cl1S(M^2/HZ) =$
 $(C22+C33)/(K*K)$ 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.

EQUIPMENT TO BE USED AND FUNCTION TO BE PERFORMED

OUTPUT MEDIUM
 PAPER CARD DISK TAPE
 ISKETTE 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 FIL	
SECTOR SIZE					EXCHANGE TYPE		CODE: ASCII EBCDIC BCD SDF OTHER(SPECIFY)		DATA SET NAME	PUR DAT
TAPE #/ DISKETTE	SLOT #	TRK	DENSITY	PARITY	LABEL TYPE	RECORD TYPE	RECORD LENGTH	MAX. BLOCK SIZE	# OF FIL	
A10384		9	1600	odd	NL-	FB	120	4050	1	
SECTOR SIZE					EXCHANGE TYPE		CODE: ASCII EBCDIC BCD SDF OTHER(SPECIFY)		DATA SET NAME	PUR DAT
TAPE #/ DISKETTE	SLOT #	TRK	DENSITY	PARITY	LABEL TYPE	RECORD TYPE	RECORD LENGTH	MAX. BLOCK SIZE	# OF FIL	
SECTOR SIZE					EXCHANGE TYPE		CODE: ASCII EBCDIC BCD SDF OTHER(SPECIFY)		DATA SET NAME	PUR DAT

SPECIAL INSTRUCTIONS

ESTIMATED EXECUTION TIME

FOR USER USE ONLY

#	DATE JOB COMPLETED	START TIME	END TIME	PRIORITY	DEVICES USED, NUMBER OF TAPE MOUNTS, LINES PRINTED, DISKETTES USED, CARDS PUNCHED, CARDS KEYVERIFIED
57613067	1/30/57	1530	1540	C	COMPLETED by FL

F151
 101.52
 02703

8600399

ACCESS NUMBER	REF NUMBER	FILE TYPE	PROJ CODE	INST	PLAT	CRUISE NO	CRUISE START	CRUISE END	NUM STA	NUM REC
8600399	BR5042	F191		313B	317F	46001	10/01/86	10/31/86	1	1,484
8600399	BR5043	F191		313B	317F	46002	10/01/86	10/31/86	1	8,894
8600399	BR5044	F191		313B	317F	46003	10/01/86	10/31/86	1	8,810
8600399	BR5045	F191		313B	317F	46004	10/01/86	10/31/86	1	8,916
8600399	BR5046	F191		313B	317F	46005	10/01/86	10/31/86	1	1,480
8600399	BR5047	F191		313B	317F	46006	10/01/86	10/31/86	1	7,290
8600399	BR5048	F191		313B	317F	46010	10/01/88	10/31/86	1	7,346
8600399	BR5049	F191		313B	317F	46011	10/08/86	10/22/86	1	4,020
8600399	BR5050	F191		313B	317F	46012	10/01/86	10/31/86	1	7,376
8600399	BR5051	F191		313B	317F	46013	10/01/86	10/31/86	1	7,406
8600399	BR5052	F191		313B	317F	46014	10/01/86	10/31/86	1	7,390
8600399	BR5053	F191		313B	317F	46016	10/01/86	10/31/86	1	464
8600399	BR5054	F191		313B	317F	46017	10/01/86	10/31/86	1	462
8600399	BR5055	F191		313B	317F	46022	10/01/86	10/31/86	1	8,870
8600399	BR5056	F191		313B	317F	46023	10/01/86	10/31/86	1	7,394
8600399	BR5057	F191		313B	317F	46025	10/01/86	10/31/86	1	7,352
8600399	BR5058	F191		313B	317F	46026	10/01/86	10/31/86	1	7,386
8600399	BR5059	F191		313B	317F	46028	10/01/86	10/31/86	1	8,880
8600399	BR5060	F191		313B	317F	46029	10/01/86	10/31/86	1	1,482
8600399	BR5061	F191		313B	317F	46030	10/01/86	10/31/86	1	1,476
8600399	BR5062	F191		313B	317F	46035	10/01/86	10/31/86	1	7,250
8600399	BR5063	F191		313B	317F	46036	10/01/86	10/31/86	1	8,836
8600399	BR5064	F191		313B	317F	46037	10/01/86	10/31/86	1	1,480
8600399	BR5065	F191		313B	317F	46038	10/01/86	10/31/86	1	1,478
8600399	BR5066	F191		313B	317F	51001	10/01/86	10/31/86	1	8,904
8600399	BR5067	F191		313B	317F	51002	10/01/86	10/31/86	1	8,872
8600399	BR5068	F191		313B	317F	51003	10/01/86	10/31/86	1	8,822
8600399	BR5069	F191		313B	317F	51004	10/01/86	10/17/86	1	4,672
8600399	BR5070	F191		313B	317F	51005	10/01/86	10/31/86	1	7,368

30 17,860

ACCESSION NO. 8600399

FILETYPE F191

TRACK NO. BR5042-5070

PROJECT IDENTIFICATION TOGO

STEP	DATE	INIT.	TAPE OR DISK DSN	NO. FILES	RECL	BLK SIZE	NO. RECOI
ORIG. TAPE	3/4/87	<i>DS</i>	A00384	1	120	4080	
DUPLICATE TAPE	3/4/87	<i>DS</i>	W06525*	1	120	4080	
REFORMATTED TAPE							
REFORMATTED DISK							
FIRST MULCHEK	4/20/87	<i>CAF</i>	SELDATA.F191BR5042	1	120		174,800
FINAL MULCHEK	4/22/87	<i>CAF</i>					
MPD75 OR F022	↓		↓	↓	↓		
DATA SET FINALIZED	↓		↓	↓	↓		174,800

* Tape is non-label

ERRORS REPORTED TO PRINCIPAL INVESTIGATOR:

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

COMMENTS (TRACKS DELETED, FIELDS DELETED, ETC.)

Reference #

PR 5008-5031

FORM APPROVED
NUMBER 8600399

F191

DATA DOCUMENTATION FORM

October 1986

NOAA FORM 74-13
-251

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEANOGRAPHIC DATA CENTER
RECORDS SECTION
WASHINGTON, DC 20225

FORM APPROVED
O.M. b. No. 0-45 1024
EXPIRES 2/29/87

(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. Ward-Nolan NOAA/National Data Buoy Center NSTL Station, MS 39529			
2. EXPEDITION, PROJECT, OR PROGRAM DURING WHICH DATA WERE COLLECTED T.O.G.A. (Tropical Ocean / Global Atmos. Program)		3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT 32302, 41001, 41002, 41006, 42001, 42003, 42007, 42009, 44004, 44005, 44007, 44008-44011, 44012, 44013, 45001-03, 45004-45008	
4. PLATFORM NAME(S) —	5. PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.) Buoy	6. PLATFORM AND OPERATOR NATIONALITY(IES) PLATFORM OPERATOR Buoy USA	7. DATES FROM: M, P, YR TO: M, DAY, YR 10/01/86 10/31/86
8. ARE DATA PROPRIETARY? <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES IF YES, WHEN CAN THEY BE RELEASED FOR GENERAL USE? YEAR _____ MONTH _____		11. PLEASE DARKEN ALL MARSDEN SQUARES IN WHICH ANY DATA CONTAINED IN YOUR SUBMISSION WERE COLLECTED. GENERAL AREA	
9. ARE DATA DECLARED NATIONAL PROGRAM (DNP)? (I.E., SHOULD THEY BE INCLUDED IN WORLD DATA CENTERS HOLDINGS FOR INTERNATIONAL EXCHANGE?) <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES <input type="checkbox"/> PART (SPECIFY BELOW)			
10. PERSON TO WHOM INQUIRIES CONCERNING DATA SHOULD BE ADDRESSED WITH TELEPHONE NUMBER (AND ADDRESS IF OTHER THAN IN ITEM-1) Sallie P. Ward-Nolan FTS-494-1721			

C. DATA FORMAT

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

LIST RECORD TYPES CONTAINED IN THE TRANSMITTAL OF YOUR FILE
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 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</p> <p><input checked="" type="checkbox"/> ASCII <input type="checkbox"/> EBCDIC</p> <p><input type="checkbox"/> _____</p>	<p>9. LENGTH OF INTER-RECORD GAP (IF KNOWN) <input checked="" type="checkbox"/> 3/4 INCH</p> <p><input type="checkbox"/> _____</p>
<p>6. NUMBER OF TRACKS (CHANNELS)</p> <p><input type="checkbox"/> SEVEN</p> <p><input checked="" type="checkbox"/> NINE</p> <p><input type="checkbox"/> _____</p>	<p>10. END OF FILE MARK</p> <p><input checked="" type="checkbox"/> OCTAL 17</p> <p><input type="checkbox"/> _____</p>
<p>7. PARITY</p> <p><input checked="" type="checkbox"/> ODD</p> <p><input type="checkbox"/> EVEN</p>	<p>11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME LAY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER)</p>
<p>8. DENSITY</p> <p><input type="checkbox"/> 200 BPI <input checked="" type="checkbox"/> 1600 BPI</p> <p><input type="checkbox"/> 556 BPI</p> <p><input type="checkbox"/> 800 BPI</p> <p><input type="checkbox"/> _____</p>	<p>12. PHYSICAL BLOCK LENGTH IN BYTES</p> <p>4080</p>
	<p>13. LENGTH OF BYTES IN BITS</p> <p>8</p>

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		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
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 *for buoy data only	108	13		A13	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

14. FIELD NAME	15. POSITION FROM-1 MEASURED IN (e.g., Mts, bytes)	15. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBERS	UNITS		
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

14. FIELD NAME	15. POSITION FROM-1 MEASURED IN (e.g. bit, byte)	15. LENGTH		17. ATTRIBUTES	19. USE AND MEANING
		NUMBER	UNITS		
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
SERVED DATE	17	6		3I2	Year, Month, Day (GMT)
OBSERVED TIME	23	4		2I2	Hours, Minutes (GMT)
DATA	27	90		10(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 NAME File Type "191"

14. FIELD NAME	15. POSITION FROM-1 MEASURED IN <small>(e.g. bits, bytes)</small>	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
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 NAME File Type "191"

14. FIELD NAME	15. POSITION FROM-1 MEASURED IN (e.g. bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
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 <u>uncorrected</u> values of Co and Quad spectra in meters squared/Hz. The order these spectra are presented is: C ₁₁ , C ₂₂ , C ₃₃ , Q ₁₂ , Q ₁₃ , C ₁₃ , Q ₁₃ , C ₂₃ , and Q ₂₃
EXPONENT	42	2	Bytes	I2	Where subscripts are defined as follows: 1. Heave 2. E-W Slope 3. N-S Slope If the exponent is less than -9 the exponent and its associated spectra should be zero
CO-SPECTRA C ₂₂	44	6	Bytes	I6	
EXPONENT	50	2	Bytes	I2	
CO-SPECTRA C ₃₃	52	6	Bytes	I6	
EXPONENT	58	2	Bytes	I2	
CO-SPECTRA C ₁₂	60	6	Bytes	I6	
EXPONENT	66	2	Bytes	I2	
QUAD-SPECTRA Q ₁₂	68	6	Bytes	I6	
EXPONENT	74	2	Bytes	I2	
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	

14. FIELD NAME	15. POSITION FROM-1 MEASURED IN (e.g. bits, bytes)	15. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
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 <u>corrected</u> 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
Cl1S (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
Cl1S (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
Cl1S (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 . $Cl1S(M^2/M/HZ) =$
 $(C22+C33)/(K*K)$ 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.

Prin Library # D00820

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

TAPE #/ DISKETTE	SLOT #	TRK	DENSITY	PARITY	LABEL TYPE	RECORD TYPE	RECORD LENGTH	MAX. BLOCK SIZE	# OF FILE	
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 FILE	
<u>A00383</u>		<u>9</u>	<u>1600</u>	<u>odd</u>	<u>NL</u>	<u>FB</u>	<u>180</u>	<u>4080</u>	<u>1</u>	
SECTOR SIZE		EXCHANGE TYPE		CODE: <u>ASCII</u> 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 FILE	
SECTOR SIZE		EXCHANGE TYPE		CODE: ASCII EBCDIC BCD SDF OTHER(SPECIFY)			DATA SET NAME			PURGE DATE

SPECIAL INSTRUCTIONS	ESTIMATED EXECUTION TIME
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FOR USER ONLY

#	DATE JOB COMPLETED	START TIME	END TIME	PRIORITY	DEVICES USED, NUMBER OF TAPE MOUNTS, LINES PRINT DISKETTES USED, CARDS PUNCHED, CARDS KEYVERIFIED
<u>07030501</u>	<u>3/5/87</u>	<u>15:25</u>	<u>15:35</u>	<u>C</u>	<u>COMPLETED BY ANDY</u>

F191
00286
010203

8600399

TO: E/OC12 - C. Noe
E/OC11 - P. Hadsell ←

FROM: E/OC13 - A. Picciolo F.J.M.

DATE: April 13, 1987

SUBJECT: Data Transfer

The following listed data sets have been transferred as indicated:

ARCHIVES BRANCH (E/OC11)

Ocean Stations (C100)

Acc: 8600370 Ref: 318646 - 318656 288 stations 5,580 records
JORDAN/AGASSIZ 1975 CALCOFI

Drifting Buoys (F156)

Acc: 8600398 Ref: TT6396 - 6411 16 stations 39,128 records
NOAA/AQTL EPOCS

WIND/WAVE SPECTRA (F191)

Acc: 8700097 Ref: BR5401 - 18 18 stations 110,488 records } NOAA/NDBC
Ref: BR5419 - 45 27 stations 164,514 records }
Ref: BR5446 - 85 40 stations 63,450 records } JANUARY 87

✓ Acc: 8600399 Ref: BR5008 - 31 24 stations 172,256 records OCTOBER 86

DATA PROCESSING BRANCH (E/OC12) XBT's

cc: E/OC1 - I. Perlrot:

ACCESS NUMBER	REF NUMBER	FILE TYPE	PROJ CODE	INST	PLAT	CRUISE NO	CRUISE START	CRUISE END	NUM STA	NUM REC
8600399	BR5008	F191		313B	317F	32302	10/01/86	10/31/86	1	7,200
8600399	BR5009	F191		313B	317F	41001	10/01/86	10/31/86	1	8,894
8600399	BR5010	F191		313B	317F	41002	10/01/86	10/31/86	1	8,872
8600399	BR5011	F191		313B	317F	41006	10/16/86	10/31/86	1	4,358
8600399	BR5012	F191		313B	317F	42001	10/01/86	10/31/86	1	7,402
8600399	BR5013	F191		313B	317F	42003	10/01/86	10/31/86	1	7,310
8600399	BR5014	F191		313B	317F	42007	10/01/86	10/31/86	1	7,414
8600399	BR5015	F191		313B	317F	42009	10/01/86	10/31/86	1	6,658
8600399	BR5016	F191		313B	317F	44004	10/01/86	10/31/86	1	8,842
8600399	BR5017	F191		313B	317F	44005	10/01/86	10/31/86	1	8,864
8600399	BR5018	F191		313B	317F	44007	10/01/86	10/31/86	1	7,380
8600399	BR5019	F191		313B	317F	44008	10/01/86	10/31/86	1	6,508
8600399	BR5020	F191		313B	317F	44009	10/01/86	10/31/86	1	7,320
8600399	BR5021	F191		313B	317F	44011	10/01/86	10/31/86	1	8,104
8600399	BR5022	F191		313B	317F	44012	10/02/86	10/31/86	1	6,940
8600399	BR5023	F191		313B	317F	44013	10/01/86	10/31/86	1	7,374
8600399	BR5024	F191		313B	317F	45001	10/01/86	10/31/86	1	7,388
8600399	BR5025	F191		313B	317F	45002	10/01/86	10/31/86	1	7,294
8600399	BR5026	F191		313B	317F	45003	10/01/86	10/31/86	1	7,098
8600399	BR5027	F191		313B	317F	45004	10/01/86	10/31/86	1	7,412
8600399	BR5028	F191		313B	317F	45005	10/01/86	10/31/86	1	1,470
8600399	BR5029	F191		313B	317F	45006	10/01/86	10/31/86	1	7,360
8600399	BR5030	F191		313B	317F	45007	10/01/86	10/31/86	1	7,394
8600399	BR5031	F191		313B	317F	45008	10/01/86	10/31/86	1	7,400

29 172,256

ACCESSION NO. 86 00399

FILETYPE F191

TRACK NO. BR500F-5031

PROJECT IDENTIFICATION T060

STEP	DATE	INIT.	TAPE OR DISK DSN.	NO. FILES	RECL	BLK SIZE	NO. RECORDS
ORIG. TAPE	3/4/87	(Q2)	A00383	1	120	4080	
DUPLICATE TAPE	3/4/87	(Q2)	W03139*	1	120	4080	
REFORMATTED TAPE							
REFORMATTED DISK							172,256
FIRST MULCHEK	4/27/87	CBR	SEL DATA. F191 BR5008	1	120		172,256
FINAL MULCHEK							
MPD75 OR F022							
DATA SET FINALIZED	4/27/87						172,256

* Tape is non-label

ERRORS REPORTED TO PRINCIPAL INVESTIGATOR:

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

COMMENTS (TRACKS DELETED, FIELDS DELETED, ETC.)

DATE 10/86	STATION ID	POSITIONS		WAVES	STATION TYPE
		LAT.	LONG.		
	32302	18.0	85.1	WA	BUOY
	41001	34.9	72.9	WDA	BUOY
	41002	32.3	75.3	WDA	BUOY
	41006	29.3	77.4	WDA	BUOY
	42001	25.9	89.7	WDA	BUOY
	42003	26.0	85.9	WDA	BUOY
	42007	30.1	88.9	WDA	BUOY
	42009	29.3	87.5	WDA	BUOY
	44004	38.5	70.7	WDA	BUOY
	44005	42.7	68.3	WDA	BUOY
	44007	43.5	70.1	WA	BUOY
	44008	40.5	69.5	WA	BUOY
	44009	38.5	74.6	WA	BUOY
	44011	41.1	66.6	WDA	BUOY
	44012	38.8	74.6	WA	BUOY
	44013	42.4	70.8	WA	BUOY
	45001	48.0	87.7	WDA	BUOY
	45002	45.3	86.4	WA	BUOY
	45003	45.3	82.8	WA	BUOY
	45004	47.6	86.5	WA	BUOY
	45005	41.7	82.4	N/A	BUOY
	45006	47.3	89.8	WA	BUOY
	45007	42.7	87.1	WA	BUOY
	45008	44.3	82.4	WA	BUOY
	46001	56.3	148.3	N/A	BUOY
	46002	42.5	130.3	WDA	BUOY
	46003	51.9	155.9	WDA	BUOY
	46004	50.9	135.9	WDA	BUOY
	46005	46.1	131.0	N/A	BUOY
	46006	40.8	137.6	WDA	BUOY
	46010	46.2	124.2	WA	BUOY
	46011	34.9	120.9	WDA	BUOY
	46012	37.4	122.7	WA	BUOY
	46013	38.2	123.3	WDA	BUOY
	46014	39.2	124.0	WDA	BUOY
	46016	63.3	170.3	N/A	LAND
	46017	60.3	172.3	N/A	LAND
	46022	40.8	124.5	WDA	BUOY
	46023	34.3	120.7	WDA	BUOY
	46025	33.7	119.1	WDA	BUOY
	46026	37.8	122.7	WDA	BUOY
	46028	35.8	121.9	WDA	BUOY
	46029	46.2	124.2	N/A	BUOY
	46030	40.4	124.5	N/A	BUOY
	46035	57.0	177.7	WDA	BUOY
	46036	48.3	133.9	WDA	BUOY
	46037	48.3	133.8	N/A	BUOY
	46038	41.9	124.4	N/A	BUOY
	51001	23.4	162.3	WDA	BUOY
	51002	17.2	157.8	WDA	BUOY
	51003	19.2	160.8	WDA	BUOY
	51004	17.5	152.6	WDA	BUOY
	51005	20.4	156.1	WA	BUOY
	ALRF1	24.9	80.6	N/A	LAND
	ALSN6	40.5	73.8	N/A	LAND
	BURL1	28.9	89.4	N/A	LAND
	BUZM3	41.4	71.0	N/A	LAND
	CARD3	43.3	124.4	N/A	LAND
	CHLV2	36.9	75.7	WA	LAND

CLKN7	34.6	76.5	N/A	LAND
CSBF1	29.7	85.4	N/A	LAND
DELN6	42.5	79.4	N/A	LAND
DESM1	47.7	124.5	N/A	LAND
DISW3	47.1	90.7	N/A	LAND
DSLN7	35.2	75.3	N/A	LAND
FBIS1	32.7	79.9	N/A	LAND
FFIA2	57.3	133.6	N/A	LAND
FPSN7	33.5	77.6	N/A	LAND
GDIL1	29.3	90.0	N/A	LAND
GLLN6	43.9	76.4	N/A	LAND
IOSN3	43.0	70.6	N/A	LAND
LKWF1	26.6	80.0	N/A	LAND
MDRM1	44.0	68.1	N/A	LAND
MISM1	43.8	68.9	N/A	LAND
NWPO3	44.6	124.1	N/A	LAND
FILM4	48.2	88.4	N/A	LAND
PTAC1	39.0	123.7	N/A	LAND
PTAT2	27.8	97.1	N/A	LAND
FTGC1	34.6	120.7	N/A	LAND
ROAM4	47.9	89.3	N/A	LAND
SAUF1	29.9	81.3	N/A	LAND
SBID1	41.6	82.8	N/A	LAND
SGNW3	43.8	87.7	N/A	LAND
SISW1	48.3	122.9	N/A	LAND
SPGF1	26.7	79.0	N/A	LAND
SRST2	29.7	94.1	N/A	LAND
STDM4	47.2	87.2	N/A	LAND
SVLS1	32.0	80.7	N/A	LAND
TPLM2	38.9	76.4	N/A	LAND
TTIW1	48.4	124.7	N/A	LAND
VENF1	27.1	82.5	N/A	LAND
WPOW1	47.7	122.4	N/A	LAND

Password:

accNo	flea	refNo	proj	inst	ship	startDate	cruise	catId
8600399	F291	BR5082	9999	313B	317F	1986/10/01	ALSN6	166776
8600399	F291	BR5083	9999	313B	317F	1986/10/01	BURL1	166777
8600399	F291	BR5084	9999	313B	317F	1986/10/01	BUZM3	166778
8600399	F291	BR5085	9999	313B	317F	1986/10/01	CARO3	166779
8600399	F291	BR5086	9999	313B	317F	1986/10/01	CHLV2	166780
8600399	F291	BR5087	9999	313B	317F	1986/10/01	CLKN7	166781
8600399	F291	BR5088	9999	313B	317F	1986/10/01	CSBF1	166782
8600399	F291	BR5089	9999	313B	317F	1986/10/01	DBLN6	166783
8600399	F291	BR5090	9999	313B	317F	1986/10/01	DESW1	166784
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