

Reference #

BR 4767-4792

ACCESSION NUMBER

8600396

F191

DATA DOCUMENTATION FORM

July 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. 07-01-0024 EXPIRES 7/29/86

(While you are not required to use this form, it is the most desirable mechanism for providing the required auxiliary 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
 TCGA
 (Tropical Ocean / Global Atmos. Program)

3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT
 3301, 3302, 41001, 41002, 41006,
 42001-42003, 42007, 42009, 44004,
 44005, 44007, 44009, 44011, 44013,
 45001-45003, 45004-45008

4. PLATFORM NAME(S)	5. PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.)	6. PLATFORM AND OPERATOR		7. DATES	
		NATIONALITY(IES)		FROM: MC, DAY, YR	TO: MC, DAY, YR
—	Buoy	Buoy	USA	07/01/86	07/31/86

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

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

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

Reference #

BR4803-4826

ACCESS ON NUMBER

8600396

F191

DATA DOCUMENTATION FORM

July 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 20230

FORM APPROVED O.M.B. No. 0-347 (024 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, 46010-46012, 46014,
46016, 46017, 46022, 46023,
46025-46029, 46035, 51001-51005

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 07/01/86 07/31/86

8. ARE DATA PROPRIETARY?

NO YES

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

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

GENERAL AREA

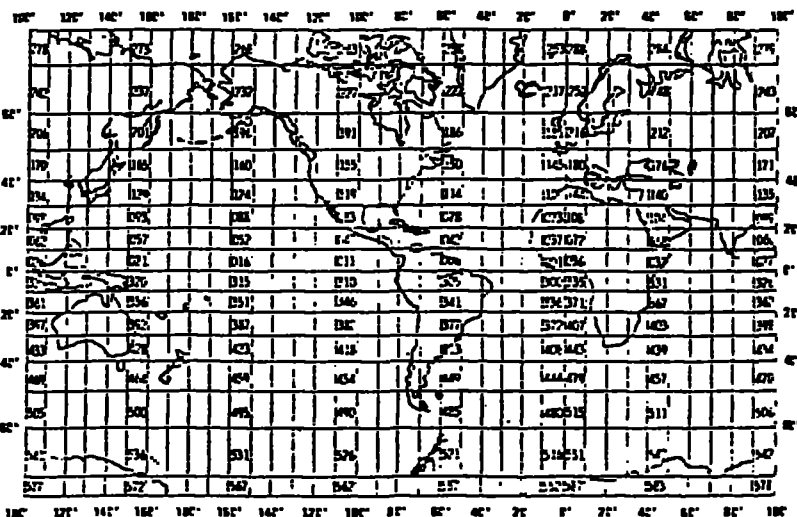
9. ARE DATA DECLARED NATIONAL PROGRAM (DNP)?

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

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-494-172)



Reference #

BR4837-4875

ACCESS ON NUMBER 8600396

F191

DATA DOCUMENTATION FORM

July 1986

OAA FORM 24-13 -85

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. 0-48-0024 EXPIRES 2/29/87

(While you are not required to use this form, it is the most desirable mechanism for providing the required auxiliary 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
 ALRF1, ALSN6, BUZM3, CARO3, CHLV2, CLK07, CSBF1, DBLN6, DESW2, DISW3, DSN?, FBIS1, FFIA2, FRSN7, GOIL2, BLNB, IOSN3, KWF1, MORM1, MISM1

4. PLATFORM NAME(S)
 -

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

6. PLATFORM AND OPERATOR NATIONALITY(IES)
 Buoy USA

7. DATES
 FROM: 07/01/86 TO: 07/31/86

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. Ward-Nolan
 FTS-494-1721

11. PLEASE DARKEN ALL MARSDEN SQUARES IN WHICH ANY DATA CONTAINED IN YOUR SUBMISSION WERE COLLECTED.
 NMP03, PILM4, PTAC2, PTAT2, PTEC2, ROAM4, SBIO2, SGNW3, SISW2, SJLF1, SP6F1, SRST1, STDM4, SVL2, TPLM2, TTIN4, VENF3, WROW1

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 ALCOL 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"/> 356 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		
<u>DESCRIPTIVE HEADER RECORD</u>					
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
<u>ENVIRONMENTAL DATA RECORD</u>					
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 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		
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
MINIMUM 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	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(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
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		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 . $Cl1S(M*M/HZ) =$
 $(C22+C33)/(K*K)$ 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.

ACCESSION NO 8600396

FILETYPE F191

TRACK NO BR47674792

PROJECT IDENTIFICATION T060

STEP	DATE	INIT.	TAPE OR DISK DSN	NO. FILES	RECL	BLK SIZE	NO. RECORDS
ORIG. TAPE	1/6/87	(95)	A00371	1	120	4080	
DUPLICATE TAPE	1/8/87	(95)	W11130*	1	120	4080	
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. 8600396

FILETYPE 191

TRACK NO. BR4803-4826

PROJECT IDENTIFICATION 7060

STEP	DATE	INIT.	TAPE OR DISK DSN	NO. FILES	RECL	BLK SIZE	NO. RECORDS
ORIG. TAPE	1/8/87	(99)	A00372	1	120	4080	
DUPLICATE TAPE	1/8/87	(95)	W11142*	1	120	4080	
REFORMATTED TAPE							
REFORMATTED DISK							
FIRST MULCHEK							
FINAL MULCHEK							
MPD75 OR F022							
DATA SET FINALIZED							

* Tape is non-labeled

ERRORS REPORTED TO PRINCIPAL INVESTIGATOR:

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

COMMENTS (TRACKS DELETED, FIELDS DELETED, ETC.)

ACCESSION NO. 8600396

FILETYPE F191

TRACK NO. 824837-4875

PROJECT IDENTIFICATION TOGO

STEP	DATE	INIT.	TAPE OR DISK DSN	NO. FILES	RECL	BLK SIZE	NO. RECORDS
ORIG. TAPE	1/8/87	(92)	A00373	1	120	4080	
DUPLICATE TAPE	1/8/87	(92)	W11145*	1	120	4080	
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.)

EQUIPMENT TO BE USED AND FUNCTION TO BE PERFORMED

Scan output / ~~microfilm print 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 FILE		
SECTOR SIZE						EXCHANGE TYPE		CODE: ASCII EBCDIC BCD SDF OTHER(SPECIFY)		DATA SET NAME	PURGE DATE
A00371		9	1600	odd	NL	FB	120	4080	1		
SECTOR SIZE						EXCHANGE TYPE		CODE: (ASCII) EBCDIC BCD SDF OTHER(SPECIFY)		DATA SET NAME	PURGE DATE
W11130		9	1600	odd	NL	FB	120	4080	1		
SECTOR SIZE						EXCHANGE TYPE		CODE: (ASCII) EBCDIC BCD SDF OTHER(SPECIFY)		DATA SET NAME	PURGE DATE

ADDITIONAL INSTRUCTIONS

Procedure BRBU04 25

ESTIMATED EXECUTION TIME

Mitch 4767, Dat

FOR USER ONLY

#	DATE JOB COMPLETED	START TIME	END TIME	PRIORITY	DEVICES USED, NUMBER OF TAPE MOUNTS, LINES PRINTED, DISKETTES USED, CARDS PUNCHED, CARDS KEYVERIFIED
12/16/86	12/17/86	11:00	1:00	C	COMPLETED BY F&J:JC

send to Asheville

July 86
108.3

Dean, Irish

Scan output / ~~XXXXXXXXXXXXXXXXXXXX~~

INPUT MEDIUM TAPE (circled) CARD DISK OTHER(SPECIFY)	OUTPUT MEDIUM PRINT (circled) TAPE (circled) PLOT CARD DISK OTHER(SPECIFY)
--	--

TAPE/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
AD0372		9	1600	odd	NL	FB	120	4080	1	
SECTOR SIZE		EXCHANGE TYPE		CODE: ASCII (circled) EBCDIC BCD SDF OTHER(SPECIFY)			DATA SET NAME			PURGE DATE
W1142		9	1600	odd	NL	FB	120	4080	1	
SECTOR SIZE		EXCHANGE TYPE		CODE: ASCII (circled) EBCDIC BCD SDF OTHER(SPECIFY)			DATA SET NAME			PURGE DATE

SPECIAL INSTRUCTIONS Procedure BRBU04 26 Mitch 4803. Dat	ESTIMATED EXECUTION TIME
--	--------------------------

USE ONLY					DEVICES USED, NUMBER OF TAPE MOUNTS, LINES PRINTED, DISKETTES USED, CARDS PUNCHED, CARDS KEYVERIFIED
DATE JOB COMPLETED	START TIME	END TIME	PRIORITY		
12/17/86	14:00	16:00	C		

12/16/86

Send to Asheville

July 86
2083

INSTRUMENT TO BE USED AND FUNCTION TO BE PERFORMED

Scan output / make two inventory list

INPUT MEDIUM TAPE (circled) CARD DISK SKETTE OTHER(SPECIFY)	OUTPUT MEDIUM PRINT (circled) TAPE (circled) PLOT CARD DISK SKETTE OTHER(SPECIFY)
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7/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
A00373		9	1600	odd	NL	FB	120	4080	1	
SECTOR SIZE		EXCHANGE TYPE		CODE: ASCII (circled) EBCDIC BCD SDF OTHER(SPECIFY)			DATA SET NAME			PURGE DATE
W11145		9	1600	odd	NL	FB	120	4080	1	
SECTOR SIZE		EXCHANGE TYPE		CODE: ASCII (circled) EBCDIC BCD SDF OTHER(SPECIFY)			DATA SET NAME			PURGE DATE

SPECIAL INSTRUCTIONS
 Procedure BRBU04 27
 Match 4837: Data

ESTIMATED EXECUTION TIME

USE ONLY

DATE JOB COMPLETED	START TIME	END TIME	PRIORITY	DEVICES USED, NUMBER OF TAPE MOUNTS, LINES PRINTED, DISKETTES USED, CARDS PUNCHED, CARDS KEYVERIFIED
12/18/86	07:15	08:50	C	COMPLETED BY JAMES

12/16/86

send to Asheville

July 86
3083

Plan

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 FIL	
SECTOR SIZE EXCHANGE TYPE CODE: ASCII EBCDIC BCD SDF OTHER(SPECIFY)						DATA SET NAME				PURGE DATE
JUL86A		9	1600	odd	NL	FB	120	4080	1	
SECTOR SIZE EXCHANGE TYPE CODE: ASCII EBCDIC BCD SDF OTHER(SPECIFY)						DATA SET NAME				PURGE DATE
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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USER ONLY

#	DATE JOB COMPLETED	START TIME	END TIME	PRIORITY	DEVICES USED, NUMBER OF TAPE MOUNTS, LINES PRINTED, DISKETTES USED, CARDS PUNCHED, CARDS KEYVERIFIED
1	12/15/86	11:15	11:25	C	COMPLETED BY JAMES

July 86
 1083
 F191

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 FIL	
SECTOR SIZE	EXCHANGE TYPE	CODE: ASCII EBCDIC BCD SDF OTHER(SPECIFY)				DATA SET NAME				PUR DATE
TAPE #/ DISKETTE	SLOT #	TRK	DENSITY	PARITY	LABEL TYPE	RECORD TYPE	RECORD LENGTH	MAX. BLOCK SIZE	# OF FILE	
JUL 86		9	1600	000	NL	FB	120	4080	1	
SECTOR SIZE	EXCHANGE TYPE	CODE: ASCII EBCDIC BCD SDF OTHER(SPECIFY)				DATA SET NAME				PUR 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				PUR DATE

SPECIAL INSTRUCTIONS	ESTIMATED EXECUTION TIME
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FOR USER USE ONLY

DATE JOB COMPLETED	START TIME	END TIME	PRIORITY	DEVICES USED, NUMBER OF TAPE MOUNTS, LINES PRINT DISKETTES USED, CARDS PUNCHED, CARDS KEYVERIFIED
12/15/86	11:08	11:14	C	COMPLETED BY JAMES

8-12-1503

July 86
020203
F191

scan

INPUT MEDIUM PAPER CARD DISK <u>TAPE</u> DISKETTE OTHER(SPECIFY)	OUTPUT MEDIUM CARD DISK <u>PRINT</u> 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				PURGE DATE
TAPE #/ DISKETTE	SLOT #	TRK	DENSITY	PARITY	LABEL TYPE	RECORD TYPE	RECORD LENGTH	MAX. BLOCK SIZE	# OF FILE	
<i>JUL 86 C</i>		<i>9</i>	<i>1600</i>	<i>odd</i>	<i>NL</i>	<i>FB</i>	<i>120</i>	<i>4080</i>		
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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31 USE ONLY

B #	DATE JOB COMPLETED	START TIME	END TIME	PRIORITY	DEVICES USED, NUMBER OF TAPE MOUNTS, LINES PRINT DISKETTES USED, CARDS PUNCHED, CARDS KEYVERIFIED
<i>1504</i>	<i>12/15/86</i>	<i>11:05</i>		<i>C</i>	<i>COMPLETED BY JAMES</i>

July 86
030203
F191

DATE 07/86	STATION ID	POSITIONS LAT.	LONG.	WAVES	STATION TYPE
	32301	10.0	105.0	WA	BUOY
	32302	18.0	85.1	WA	BUOY
	41001	34.9	72.9	WDA	BUOY
	41002	32.3	75.3	WDA	BUOY
	41006	29.3	77.3	WDA	BUOY
	42001	25.9	89.7	WDA	BUOY
	42002	26.0	93.5	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	N/A	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	WA	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	WDA	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	WDA	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	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	33.6	119.0	WDA	BUOY
	46026	37.8	122.7	WDA	BUOY
	46027	41.8	124.4	WA	BUOY
	46028	35.8	121.9	WDA	BUOY
	46029	46.2	124.2	N/A	BUOY
	46035	57.0	177.7	WDA	BUOY
	46125	33.8	119.1	DWA	BUOY
	51001	23.4	162.3	WDA	BUOY
	51003	19.2	160.8	WDA	BUOY
	51004	17.5	152.6	WDA	BUOY
	51005	20.3	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	41.0	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
	DBLN6	42.5	79.4	N/A	LAND
	DESW1	47.7	124.5	N/A	LAND
	DISW3	47.1	90.7	N/A	LAND
	DISW7	35.2	75.7	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	89.9	N/A	LAND
GLLN6	43.9	76.4	N/A	LAND
IOSN3	42.9	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	38.9	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
SBIO1	41.7	82.8	N/A	LAND
SGNW3	43.8	87.7	N/A	LAND
SISW1	48.3	122.9	N/A	LAND
SJLF1	30.4	81.4	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
WPGW1	47.7	122.4	N/A	LAND

ESS NUMBER	REF NUMBER	FILE TYPE	PROJ CODE	INST	PLAT	CRUISE NO	CRUISE START	CRUISE END	NUM STA	NUM REC
8600396	BR4767	F191		313B	317F	32301	07/01/86	07/12/86	1	2,786
8600396	BR4768	F191		313B	317F	32302	07/01/86	07/31/86	1	7,330
8600396	BR4769	F191		313B	317F	41001	07/01/86	07/31/86	1	8,918
8600396	BR4770	F191		313B	317F	41002	07/01/86	07/31/86	1	8,858
8600396	BR4771	F191		313B	317F	41006	07/01/86	07/31/86	1	3,778
8600396	BR4772	F191		313B	317F	42001	07/01/86	07/31/86	1	7,424
8600396	BR4773	F191		313B	317F	42002	07/01/86	07/31/86	1	7,394
8600396	BR4774	F191		313B	317F	42003	07/01/86	07/31/86	1	7,422
8600396	BR4775	F191		313B	317F	42007	07/01/86	07/31/86	1	7,306
8600396	BR4776	F191		313B	317F	42009	07/01/86	07/31/86	1	7,306
8600396	BR4777	F191		313B	317F	44004	07/01/86	07/31/86	1	8,918
8600396	BR4778	F191		313B	317F	44005	07/01/86	07/31/86	1	6,768
8600396	BR4779	F191		313B	317F	44007	07/01/86	07/31/86	1	7,422
8600396	BR4780	F191		313B	317F	44008	07/01/86	07/31/86	1	7,414
8600396	BR4781	F191		313B	317F	44009	07/01/86	07/31/86	1	7,402
8600396	BR4782	F191		313B	317F	44011	07/01/86	07/31/86	1	8,838
8600396	BR4783	F191		313B	317F	44012	07/01/86	07/31/86	1	1,486
8600396	BR4784	F191		313B	317F	44013	07/01/86	07/31/86	1	7,344
8600396	BR4785	F191		313B	317F	45001	07/01/86	07/31/86	1	7,414
8600396	BR4786	F191		313B	317F	45002	07/01/86	07/31/86	1	7,372
8600396	BR4787	F191		313B	317F	45003	07/01/86	07/31/86	1	7,388
8600396	BR4788	F191		313B	317F	45004	07/01/86	07/31/86	1	7,376
8600396	BR4789	F191		313B	317F	45005	07/01/86	07/31/86	1	7,012
8600396	BR4790	F191		313B	317F	45006	07/01/86	07/31/86	1	7,374
8600396	BR4791	F191		313B	317F	45007	07/01/86	07/31/86	1	7,380
8600396	BR4792	F191		313B	317F	45008	07/01/86	07/31/86	1	7,442

CESS BER	REF NUMBER	FILE TYPE	PROJ CODE	INST	PLAT	CRUISE NO	CRUISE START	CRUISE END	NUM STA	NUM REC
8600396	BR4803	F191		313B	317F	46001	07/01/86	07/31/86	1	8,928
8600396	BR4804	F191		313B	317F	46002	07/01/86	07/31/86	1	8,916
8600396	BR4805	F191		313B	317F	46003	07/01/86	07/31/86	1	8,916
8600396	BR4806	F191		313B	317F	46004	07/01/86	07/31/86	1	8,908
8600396	BR4807	F191		313B	317F	46005	07/01/86	07/31/86	1	8,906
8600396	BR4808	F191		313B	317F	46006	07/01/86	07/31/86	1	7,382
8600396	BR4809	F191		313B	317F	46010	07/01/86	07/31/86	1	7,390
8600396	BR4810	F191		313B	317F	46011	07/01/86	07/31/86	1	8,880
8600396	BR4811	F191		313B	317F	46012	07/25/86	07/31/86	1	1,670
8600396	BR4812	F191		313B	317F	46014	07/01/86	07/31/86	1	7,412
8600396	BR4813	F191		313B	317F	46016	07/01/86	07/31/86	1	494
8600396	BR4814	F191		313B	317F	46017	07/01/86	07/31/86	1	490
8600396	BR4815	F191		313B	317F	46022	07/01/86	07/31/86	1	8,928
8600396	BR4816	F191		313B	317F	46023	07/01/86	07/31/86	1	7,398
8600396	BR4817	F191		313B	317F	46025	07/01/86	07/31/86	1	7,430
8600396	BR4818	F191		313B	317F	46026	07/01/86	07/31/86	1	7,422
8600396	BR4819	F191		313B	317F	46027	07/01/86	07/31/86	1	7,398
8600396	BR4820	F191		313B	317F	46028	07/01/86	07/31/86	1	8,918
8600396	BR4821	F191		313B	317F	46029	07/01/86	07/31/86	1	1,486
8600396	BR4822	F191		313B	317F	46035	07/01/86	07/31/86	1	7,430
8600396	BR4823	F191		313B	317F	51001	07/01/86	07/31/86	1	8,898
8600396	BR4824	F191		313B	317F	51003	07/01/86	07/31/86	1	8,884
8600396	BR4825	F191		313B	317F	51004	07/01/86	07/31/86	1	8,908
8600396	BR4826	F191		313B	317F	51005	07/01/86	07/31/86	1	7,446

ESS BER	REF NUMBER	FILE TYPE	PROJ CODE	INST	PLAT	CRUISE NO	CRUISE START	CRUISE END	NUM STA	NUM REC
8600396	BR4837	F191		313B	317F	ALRF1	07/01/86	07/31/86	1	1,480
8600396	BR4838	F191		313B	317F	ALSN6	07/01/86	07/31/86	1	1,486
8600396	BR4839	F191		313B	317F	BURL1	07/01/86	07/31/86	1	1,482
8600396	BR4840	F191		313B	317F	BUZM3	07/01/86	07/31/86	1	1,478
8600396	BR4841	F191		313B	317F	CAR03	07/01/86	07/31/86	1	1,486
8600396	BR4842	F191		313B	317F	CHLV2	07/01/86	07/31/86	1	7,254
8600396	BR4843	F191		313B	317F	CLKN7	07/01/86	07/31/86	1	1,486
8600396	BR4844	F191		313B	317F	CSBF1	07/01/86	07/31/86	1	1,238
8600396	BR4845	F191		313B	317F	DBLN6	07/01/86	07/31/86	1	1,376
8600396	BR4846	F191		313B	317F	DESW1	07/01/86	07/31/86	1	1,486
8600396	BR4847	F191		313B	317F	DISW3	07/01/86	07/31/86	1	1,446
8600396	BR4848	F191		313B	317F	DSLN7	07/02/86	07/31/86	1	1,692
8600396	BR4849	F191		313B	317F	FBIS1	07/01/86	07/31/86	1	1,482
8600396	BR4850	F191		313B	317F	FFIA2	07/01/86	07/31/86	1	1,486
8600396	BR4851	F191		313B	317F	FPSN7	07/11/86	07/31/86	1	964
8600396	BR4852	F191		313B	317F	GDIL1	07/01/86	07/31/86	1	1,404
8600396	BR4853	F191		313B	317F	GLLN6	07/01/86	07/31/86	1	1,398
8600396	BR4854	F191		313B	317F	IOSN3	07/01/86	07/31/86	1	1,484
8600396	BR4855	F191		313B	317F	LKWF1	07/01/86	07/31/86	1	1,224
8600396	BR4856	F191		313B	317F	MDRM1	07/01/86	07/31/86	1	1,488
8600396	BR4857	F191		313B	317F	MISM1	07/01/86	07/31/86	1	1,484
8600396	BR4858	F191		313B	317F	NWPO3	07/01/86	07/31/86	1	1,488
8600396	BR4859	F191		313B	317F	PILM4	07/01/86	07/31/86	1	1,486
8600396	BR4860	F191		313B	317F	PTAC1	07/01/86	07/31/86	1	1,484
8600396	BR4861	F191		313B	317F	PTAT2	07/01/86	07/31/86	1	1,484
8600396	BR4862	F191		313B	317F	PTGC1	07/01/86	07/31/86	1	1,486
8600396	BR4863	F191		313B	317F	ROAM4	07/01/86	07/31/86	1	1,478
8600396	BR4864	F191		313B	317F	SBIO1	07/01/86	07/31/86	1	1,450
8600396	BR4865	F191		313B	317F	SGNW3	07/01/86	07/31/86	1	1,482
8600396	BR4866	F191		313B	317F	SISW1	07/01/86	07/27/86	1	1,288
8600396	BR4867	F191		313B	317F	SJLF1	07/01/86	07/31/86	1	1,486
8600396	BR4868	F191		313B	317F	SPGF1	07/01/86	07/31/86	1	1,486
8600396	BR4869	F191		313B	317F	SRST2	07/01/86	07/31/86	1	1,480
8600396	BR4870	F191		313B	317F	STDM4	07/01/86	07/31/86	1	1,482
8600396	BR4871	F191		313B	317F	SVLS1	07/01/86	07/31/86	1	1,486
8600396	BR4872	F191		313B	317F	TPLM2	07/01/86	07/31/86	1	1,486
8600396	BR4873	F191		313B	317F	TTIW1	07/01/86	07/31/86	1	1,486
8600396	BR4874	F191		313B	317F	VENF1	07/01/86	07/23/86	1	1,062
8600396	BR4875	F191		313B	317F	WPOW1	07/01/86	07/31/86	1	1,506

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8600396	F291	BR4815	9999	313B	317F	1986/07/01	46022	166578
8600396	F291	BR4816	9999	313B	317F	1986/07/01	46023	166579
8600396	F291	BR4817	9999	313B	317F	1986/07/01	46025	166580
8600396	F291	BR4818	9999	313B	317F	1986/07/01	46026	166581
8600396	F291	BR4819	9999	313B	317F	1986/07/01	46027	166582
8600396	F291	BR4820	9999	313B	317F	1986/07/01	46028	166583
8600396	F291	BR4821	9999	313B	317F	1986/07/01	46029	166584
8600396	F291	BR4822	9999	313B	317F	1986/07/01	46035	166585
8600396	F291	BR4823	9999	313B	317F	1986/07/01	51001	166586
8600396	F291	BR4824	9999	313B	317F	1986/07/01	51003	166587
8600396	F291	BR4825	9999	313B	317F	1986/07/01	51004	166588
8600396	F291	BR4826	9999	313B	317F	1986/07/01	51005	166589
8600396	F291	BR4837	9999	313B	317F	1986/07/01	ALRF1	166590
8600396	F291	BR4838	9999	313B	317F	1986/07/01	ALSN6	166591
8600396	F291	BR4839	9999	313B	317F	1986/07/01	BURL1	166592
8600396	F291	BR4840	9999	313B	317F	1986/07/01	BUZM3	166593
8600396	F291	BR4841	9999	313B	317F	1986/07/01	CARO3	166594
8600396	F291	BR4842	9999	313B	317F	1986/07/01	CHLV2	166595
8600396	F291	BR4843	9999	313B	317F	1986/07/01	CLKN7	166596
8600396	F291	BR4844	9999	313B	317F	1986/07/01	CSBF1	166597
8600396	F291	BR4845	9999	313B	317F	1986/07/01	DBLN6	166598
8600396	F291	BR4846	9999	313B	317F	1986/07/01	DESW1	166599
8600396	F291	BR4847	9999	313B	317F	1986/07/01	DISW3	166600
8600396	F291	BR4848	9999	313B	317F	1986/07/02	DSLN7	166601
8600396	F291	BR4849	9999	313B	317F	1986/07/01	FBIS1	166602
8600396	F291	BR4850	9999	313B	317F	1986/07/01	FFIA2	166603
8600396	F291	BR4851	9999	313B	317F	1986/07/11	FPSN7	166604
8600396	F291	BR4852	9999	313B	317F	1986/07/01	GDIL1	166605
8600396	F291	BR4853	9999	313B	317F	1986/07/01	GLLN6	166606
8600396	F291	BR4854	9999	313B	317F	1986/07/01	IOSN3	166607
8600396	F291	BR4855	9999	313B	317F	1986/07/01	LKWF1	166608
8600396	F291	BR4856	9999	313B	317F	1986/07/01	MDRM1	166609
8600396	F291	BR4857	9999	313B	317F	1986/07/01	MISM1	166610
8600396	F291	BR4858	9999	313B	317F	1986/07/01	NWPO3	166611
8600396	F291	BR4859	9999	313B	317F	1986/07/01	PILM4	166612
8600396	F291	BR4860	9999	313B	317F	1986/07/01	PTAC1	166613
8600396	F291	BR4861	9999	313B	317F	1986/07/01	PTAT2	166614
8600396	F291	BR4862	9999	313B	317F	1986/07/01	PTGC1	166615
8600396	F291	BR4863	9999	313B	317F	1986/07/01	ROAM4	166616
8600396	F291	BR4864	9999	313B	317F	1986/07/01	SBIO1	166617
8600396	F291	BR4865	9999	313B	317F	1986/07/01	SGNW3	166618
8600396	F291	BR4866	9999	313B	317F	1986/07/01	SISW1	166619
8600396	F291	BR4867	9999	313B	317F	1986/07/01	SJLF1	166620
8600396	F291	BR4868	9999	313B	317F	1986/07/01	SPGF1	166621
8600396	F291	BR4869	9999	313B	317F	1986/07/01	SRST2	166622
8600396	F291	BR4870	9999	313B	317F	1986/07/01	STDM4	166623
8600396	F291	BR4871	9999	313B	317F	1986/07/01	SVLS1	166624
8600396	F291	BR4872	9999	313B	317F	1986/07/01	TPLM2	166625
8600396	F291	BR4873	9999	313B	317F	1986/07/01	TTIW1	166626
8600396	F291	BR4874	9999	313B	317F	1986/07/01	VENF1	166627
8600396	F291	BR4875	9999	313B	317F	1986/07/01	WPOW1	166628
8600396	F291	BR4767	9999	313B	317F	1986/07/01	32301	166540
8600396	F291	BR4768	9999	313B	317F	1986/07/01	32302	166541
8600396	F291	BR4769	9999	313B	317F	1986/07/01	41001	166542

8600396	F291	BR4770	9999	313B	317F	1986/07/01	41002	166543
8600396	F291	BR4771	9999	313B	317F	1986/07/01	41006	166544
8600396	F291	BR4772	9999	313B	317F	1986/07/01	42001	166545
8600396	F291	BR4773	9999	313B	317F	1986/07/01	42002	166546
8600396	F291	BR4774	9999	313B	317F	1986/07/01	42003	166547
8600396	F291	BR4775	9999	313B	317F	1986/07/01	42007	166548
8600396	F291	BR4776	9999	313B	317F	1986/07/01	42009	166549
8600396	F291	BR4777	9999	313B	317F	1986/07/01	44004	166550
8600396	F291	BR4778	9999	313B	317F	1986/07/01	44005	166551
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8600396	F291	BR4780	9999	313B	317F	1986/07/01	44008	166553
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8600396	F291	BR4782	9999	313B	317F	1986/07/01	44011	166555
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8600396	F291	BR4784	9999	313B	317F	1986/07/01	44013	166557
8600396	F291	BR4785	9999	313B	317F	1986/07/01	45001	166558
8600396	F291	BR4786	9999	313B	317F	1986/07/01	45002	166559
8600396	F291	BR4787	9999	313B	317F	1986/07/01	45003	166560
8600396	F291	BR4788	9999	313B	317F	1986/07/01	45004	166561
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8600396	F291	BR4790	9999	313B	317F	1986/07/01	45006	166563
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8600396	F291	BR4806	9999	313B	317F	1986/07/01	46004	166569
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8600396	F291	BR4808	9999	313B	317F	1986/07/01	46006	166571
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8600396	F291	BR4810	9999	313B	317F	1986/07/01	46011	166573
8600396	F291	BR4811	9999	313B	317F	1986/07/25	46012	166574
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8600396	F291	BR4815	317F	1	8928	86/07/01	86/07/31
8600396	F291	BR4816	317F	1	7398	86/07/01	86/07/31
8600396	F291	BR4817	317F	1	7430	86/07/01	86/07/31
8600396	F291	BR4818	317F	1	7422	86/07/01	86/07/31
8600396	F291	BR4819	317F	1	7398	86/07/01	86/07/31
8600396	F291	BR4820	317F	1	8918	86/07/01	86/07/31
8600396	F291	BR4821	317F	1	1486	86/07/01	86/07/31
8600396	F291	BR4822	317F	1	7430	86/07/01	86/07/31
8600396	F291	BR4823	317F	1	8898	86/07/01	86/07/31
8600396	F291	BR4824	317F	1	8884	86/07/01	86/07/31
8600396	F291	BR4825	317F	1	8908	86/07/01	86/07/31
8600396	F291	BR4826	317F	1	7446	86/07/01	86/07/31
8600396	F291	BR4837	317F	1	1480	86/07/01	86/07/31
8600396	F291	BR4838	317F	1	1486	86/07/01	86/07/31
8600396	F291	BR4839	317F	1	1482	86/07/01	86/07/31
8600396	F291	BR4840	317F	1	1478	86/07/01	86/07/31
8600396	F291	BR4841	317F	1	1486	86/07/01	86/07/31
8600396	F291	BR4842	317F	1	7254	86/07/01	86/07/31
8600396	F291	BR4843	317F	1	1486	86/07/01	86/07/31
8600396	F291	BR4844	317F	1	1238	86/07/01	86/07/31
8600396	F291	BR4845	317F	1	1376	86/07/01	86/07/31
8600396	F291	BR4846	317F	1	1486	86/07/01	86/07/31
8600396	F291	BR4847	317F	1	1446	86/07/01	86/07/31
8600396	F291	BR4848	317F	1	1692	86/07/02	86/07/31
8600396	F291	BR4849	317F	1	1482	86/07/01	86/07/31
8600396	F291	BR4850	317F	1	1486	86/07/01	86/07/31
8600396	F291	BR4851	317F	1	964	86/07/11	86/07/31
8600396	F291	BR4852	317F	1	1404	86/07/01	86/07/31
8600396	F291	BR4853	317F	1	1398	86/07/01	86/07/31
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8600396	F291	BR4855	317F	1	1224	86/07/01	86/07/31
8600396	F291	BR4856	317F	1	1488	86/07/01	86/07/31
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8600396	F291	BR4860	317F	1	1484	86/07/01	86/07/31
8600396	F291	BR4861	317F	1	1484	86/07/01	86/07/31
8600396	F291	BR4862	317F	1	1486	86/07/01	86/07/31
8600396	F291	BR4863	317F	1	1478	86/07/01	86/07/31
8600396	F291	BR4864	317F	1	1450	86/07/01	86/07/31
8600396	F291	BR4865	317F	1	1482	86/07/01	86/07/31
8600396	F291	BR4866	317F	1	1288	86/07/01	86/07/27
8600396	F291	BR4867	317F	1	1486	86/07/01	86/07/31
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8600396	F291	BR4871	317F	1	1486	86/07/01	86/07/31
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8600396	F291	BR4873	317F	1	1486	86/07/01	86/07/31
8600396	F291	BR4874	317F	1	1062	86/07/01	86/07/23
8600396	F291	BR4875	317F	1	1506	86/07/01	86/07/31
8600396	F291	BR4767	317F	1	2786	86/07/01	86/07/12
8600396	F291	BR4768	317F	1	7330	86/07/01	86/07/31
8600396	F291	BR4769	317F	1	8918	86/07/01	86/07/31

8600396	F291	BR4770	317F	1	8858	86/07/01	86/07/31
8600396	F291	BR4771	317F	1	3778	86/07/01	86/07/31
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8600396	F291	BR4773	317F	1	7394	86/07/01	86/07/31
8600396	F291	BR4774	317F	1	7422	86/07/01	86/07/31
8600396	F291	BR4775	317F	1	7306	86/07/01	86/07/31
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8600396	F291	BR4779	317F	1	7422	86/07/01	86/07/31
8600396	F291	BR4780	317F	1	7414	86/07/01	86/07/31
8600396	F291	BR4781	317F	1	7402	86/07/01	86/07/31
8600396	F291	BR4782	317F	1	8838	86/07/01	86/07/31
8600396	F291	BR4783	317F	1	1486	86/07/01	86/07/31
8600396	F291	BR4784	317F	1	7344	86/07/01	86/07/31
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8600396	F291	BR4787	317F	1	7388	86/07/01	86/07/31
8600396	F291	BR4788	317F	1	7376	86/07/01	86/07/31
8600396	F291	BR4789	317F	1	7012	86/07/01	86/07/31
8600396	F291	BR4790	317F	1	7374	86/07/01	86/07/31
8600396	F291	BR4791	317F	1	7380	86/07/01	86/07/31
8600396	F291	BR4792	317F	1	7442	86/07/01	86/07/31
8600396	F291	BR4803	317F	1	8928	86/07/01	86/07/31
8600396	F291	BR4804	317F	1	8916	86/07/01	86/07/31
8600396	F291	BR4805	317F	1	8916	86/07/01	86/07/31
8600396	F291	BR4806	317F	1	8908	86/07/01	86/07/31
8600396	F291	BR4807	317F	1	8906	86/07/01	86/07/31
8600396	F291	BR4808	317F	1	7382	86/07/01	86/07/31
8600396	F291	BR4809	317F	1	7390	86/07/01	86/07/31
8600396	F291	BR4810	317F	1	8880	86/07/01	86/07/31
8600396	F291	BR4811	317F	1	1670	86/07/25	86/07/31
8600396	F291	BR4812	317F	1	7412	86/07/01	86/07/31

(89 rows affected).