

Reference #

BR4300-4317

ACCESSION NUMBER

8600167

F191

DATA DOCUMENTATION FORM

April 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 0644-0024 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 OGA (Tropical Ocean / Global Atmos. Program)		3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT 32301, 32302, 41002, 41006, 41007, 42001 42002, 42003, 42007, 42009, 44004, 44005 44007, 44008, 44009, 44011, 44012, 44013	
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: MO, DAY, YR TO: MO, DAY, YR 04/1/86 04/30/86
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-494-172)			

Reference #

B24328-4351

ACCESSION NUMBER

8600167

F191

DATA DOCUMENTATION FORM

April 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. 0648-0024 EXPIRES 2/29/87

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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
 46016-17
 46001-05, 46010-12, 46014, 46022, 46023, 46025-28, 46030, 46035, 46125, 51002-05

4. PLATFORM NAME(S)	5. PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.)	6. PLATFORM AND OPERATOR NATIONALITY(IES)	7. DATES	
—	Buoy	Buoy USA	FROM: MO/PAY/YR	TO: MO/PAY/YR
			04/01/86	04/30/86

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.

GENERAL AREA

Reference #

BR4362-4399

ACCESSION NUMBER

8600167

F191

DATA DOCUMENTATION FORM

April 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 0648-0024 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
 CHLV2, ALRF2, ALSN6, BURL1, BUZM3, CARO3, CLKN7, CSBF2, DBLN6, DESW2, DISW3, DSLN7, FBIS2, FATA2, FPSN7, GDLI2, GLLN6, IOSN3, LKWF1, MDRM2, MISM1, NWPU3

4. PLATFORM NAME(S)	5. PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.)	6. PLATFORM AND OPERATOR NATIONALITY(IES)		7. DATES	
		PLATFORM	OPERATOR	FROM: MO, DAY, YR	TO: MO, DAY, YR
-	BUOY	BUOY	USA	04/01/86	04/30/86

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.
 PILM4, PTAC2, PTAT2, PTGC2, ROAM4, SBIO3, S6NW3, SICW2, SJLF2, SPEF2, SRST2, STBM4, SVLS2, TPLM2, TTIW1, WPOW1
 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

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 CODOL
 FORTRAN _____ LANGUAGE

4. RESPONSIBLE COMPUTER SPECIALIST:

NAME AND PHONE NUMBER _____
 ADDRESS _____

COMPLETE THIS SECTION IF DATA ARE ON MAGNETIC TAPE

<p>5. RECORDING MODE <input type="checkbox"/> BCD <input type="checkbox"/> BINARY <input checked="" type="checkbox"/> ASCII <input type="checkbox"/> EBCDIC <input type="checkbox"/> _____</p>	<p>9. LENGTH OF INTER-RECORD GAP (IF KNOWN) <input checked="" type="checkbox"/> 3/4 INCH <input type="checkbox"/> _____</p>
<p>6. NUMBER OF TRACKS (CHANNELS) <input type="checkbox"/> SEVEN <input checked="" type="checkbox"/> NINE <input type="checkbox"/> _____</p>	<p>10. END OF FILE MARK <input checked="" type="checkbox"/> OCTAL 17 <input type="checkbox"/> _____</p>
<p>7. PARITY <input checked="" type="checkbox"/> ODD <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 <input type="checkbox"/> 200 BPI <input checked="" type="checkbox"/> 1600 BPI <input type="checkbox"/> 556 BPI <input type="checkbox"/> 800 BPI <input type="checkbox"/> _____</p>	<p>12. PHYSICAL BLOCK LENGTH IN BYTES 4080</p>
	<p>13. LENGTH OF BYTES IN BITS 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

RECORD NAME File Type "191"

14. FIELD NAME	15. POSITION FROM-1 MEASURED IN <small>(e.g., bits, bytes)</small>	15. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMB LA	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. 51a, 57b)	16. 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 Up to 5 Frequency, Resolution, Density fields. Null fields blank Center frequency of interval in Hertz to thousandths Resolution of interval in Hertz to ten-thousandths Spectral Density of interval in m ² /Hz to thousandths Fill the fixed length record
DATA	35	70		5(2I4,I6)	
Frequency	35, 49, 63 77, 91	4		I4	
Resolution	39, 53, 67 81, 95	4		I4	
Density	43, 57, 71 85, 99	6		I6	
BLANKS	105	16		16X	
SUBSURFACE TEMPERATURE DATA RECORD					
FILE TYPE	1	3		A3	"191" (constant) Yr., Mo., Day of file generation "4" (Subsurface Temperature Data Record) Unique name of observation point Year, Month, Day (GMT) Hours, Minutes (GMT) Up to 10 Depth and temperature fields Obs. level, meters to tenths Degrees Celsius to hundredths (include Sea Surface Temperature) Fill the fixed length record
FILE DATE	4	6		3I2	
RECORD TYPE	10	1		A1	
STATION	11	6		A6	
OBSERVED DATE	17	6		3I2	
OBSERVED TIME	23	4		2I2	
DATA	27	90		10(I5,I4)	
Depth	27, 36, 45 54, 63, 72 81, 90, 99 108	5		I5	
Temperature	32, 41, 50 59, 68, 77 86, 95, 104 113	4		I4	
BLANKS	117	4		4X	
SUBSURFACE DATA RECORD					
FILE TYPE	1	3		A3	"191" (constant) Yr., Mo., Day of file generation "5" (Subsurface Data Record) Unique name of observation point Year, Month, Day (GMT) Hours, Minutes (GMT) Up to 3 Depth, U Component, V Component, Pressure, Conductivity, Salinity fields Obs. Level, meters to tenths
FILE DATE	4	6		3I2	
RECORD TYPE	10	1		A1	
STATION	11	6		A6	
OBSERVED DATE	17	6		3I2	
OBSERVED TIME	23	4		2I2	
DATA	27	90		3(I5,I5,I5 I5,I5,I5)	
Depth	27, 57, 87	5		I5	

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		
SURFACE 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		
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.

Green, J.

SUBMITTED
6/15/87

27

INSTRUMENT TO BE USED AND FUNCTION TO BE PERFORMED

Copy to 'W' tape and scan output.

Library #. D02354

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	# F	
SECTOR SIZE	EXCHANGE TYPE	CODE: ASCII EBCDIC BCD SDF OTHER(SPECIFY)				DATA SET NAME				P D
TAPE #/ DISKETTE	SLOT #	TRK	DENSITY	PARITY	LABEL TYPE	RECORD TYPE	RECORD LENGTH	MAX. BLOCK SIZE	# F	
A20233		9	1600	odd	NL	FB	120	4080	1	
SECTOR SIZE	EXCHANGE TYPE	CODE: ASCII EBCDIC BCD SDF OTHER(SPECIFY)				DATA SET NAME				PI DI
TAPE #/ DISKETTE	SLOT #	TRK	DENSITY	PARITY	LABEL TYPE	RECORD TYPE	RECORD LENGTH	MAX. BLOCK SIZE	# F	
W118d1		9	1600	odd	NL	FB	120	4080		
SECTOR SIZE	EXCHANGE TYPE	CODE: ASCII EBCDIC BCD SDF OTHER(SPECIFY)				DATA SET NAME				PI DI

SPECIAL INSTRUCTIONS

Procedure BR:BODY 77

ESTIMATED
EXECUTION
TIME

Mitch 4300. DAV

USER ONLY

DATE JOB COMPLETED	START TIME	END TIME	PRIORITY	DEVICES USED, NUMBER OF TAPE MOUNTS, LINES PRI DISKETTES USED, CARDS PUNCHED, CARDS KEYVERIF
6/15/87	10:05		C	COMPLETED BY ANDY

920072035

Send to Asheville

April 86
1073

SUBMITTED
6/15/87

27

DIFFERENT TO BE USED AND FUNCTION TO BE PERFORMED

UTP is not to be used

NO output

Access # DC2353

INPUT 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	#
SECTOR SIZE	EXCHANGE TYPE	CODE: ASCII EBCDIC BCD SDF OTHER(SPECIFY)				DATA SET NAME			
TAPE #/ DISKETTE	SLOT #	TRK	DENSITY	PARITY	LABEL TYPE	RECORD TYPE	RECORD LENGTH	MAX. BLOCK SIZE	#
A00234		9	1600	odd	NL	FB	120	4080	1
SECTOR SIZE	EXCHANGE TYPE	CODE: ASCII EBCDIC BCD SDF OTHER(SPECIFY)				DATA SET NAME			
TAPE #/ DISKETTE	SLOT #	TRK	DENSITY	PARITY	LABEL TYPE	RECORD TYPE	RECORD LENGTH	MAX. BLOCK SIZE	#
W11078		9	1600	odd	NL	FB	120	4080	1
SECTOR SIZE	EXCHANGE TYPE	CODE: ASCII EBCDIC BCD SDF OTHER(SPECIFY)				DATA SET NAME			

SPECIAL INSTRUCTIONS

Procedure BCBV04 78

ESTIMATED
EXECUTION
TIME

Mitch 4328.20A

FOR USER ONLY

DATE JOB COMPLETED	START TIME	END TIME	PRIORITY	DEVICES USED, NUMBER OF TAPE MOUNTS, LINES PRI DISKETTES USED, CARDS PUNCHED, CARDS KEYVERIF
6/26/87	08:10	10:15	C	COMPLETED BY JAMES

574x1601

Send to Asheville

April 86
2073

SUBMITTED
6/15/59

37

INSTRUMENT TO BE USED AND FUNCTION TO BE PERFORMED

Copy to W tape and scan output

160000-1-102352

INPUT 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	# F
SECTOR SIZE					EXCHANGE TYPE	CODE: ASCII EBCDIC BCD SDF OTHER(SPECIFY)		DATA SET NAME	
<u>A00235</u>		<u>9</u>	<u>1600</u>	<u>odd</u>	<u>NL</u>	<u>FB</u>	<u>120</u>	<u>4080</u>	<u>1</u>
SECTOR SIZE					EXCHANGE TYPE	CODE: <u>ASCII</u> EBCDIC BCD SDF OTHER(SPECIFY)		DATA SET NAME	
<u>W12068</u>		<u>9</u>	<u>1600</u>	<u>odd</u>	<u>NL</u>	<u>FB</u>	<u>120</u>	<u>4080</u>	<u>1</u>
SECTOR SIZE					EXCHANGE TYPE	CODE: <u>ASCII</u> EBCDIC BCD SDF OTHER(SPECIFY)		DATA SET NAME	

SPECIAL INSTRUCTIONS

Procedure BRB004 79

ESTIMATED
EXECUTION
TIME

W. Tech 4362. Dat

1 USE ONLY

#	DATE JOB COMPLETED	START TIME	END TIME	PRIORITY	DEVICES USED, NUMBER OF TAPE MOUNTS, LINES PRI DISKETTES USED, CARDS PUNCHED, CARDS KEYVERIF
<u>15706-7204</u>	<u>6/24/59</u>	<u>11:30</u>	<u>12:35</u>	<u>C</u>	<u>COMPLETED BY ANDY</u>

Send to Asheville

April 86

308

ACCESSION NO. 8600167FILETYPE F191TRACK NO. BR4300-4317PROJECT IDENTIFICATION TOGO

STEP	DATE	INIT.	TAPE OR DISK DSN	NO. FILES	RECL	BLK SIZE	NO. RECORDS
ORIG. TAPE	7/6/87	(D)	A00233	1	120	4080	
DUPLICATE TAPE	7/6/87	(D)	W11801 *	1	120	4080	
REFORMATTED TAPE							
REFORMATTED DISK							
FIRST MULCHEK	7/8/87	CBT	SEC DATA. F191 BR 4300	1			100,629
FINAL MULCHEK							
MPD75 OR F022	7/15/87	CBT	MPD75. BR 4300/F191	1			
DATA SET FINALIZED	7/15/87		" "				100,629

* 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. 8600167

FILETYPE F191

TRACK NO. BR4328-4351

PROJECT IDENTIFICATION T06A

STEP	DATE	INIT.	TAPE OR DISK DSN	NO. FILES	RECL	BLK SIZE	NO. RECORDS
ORIG. TAPE	7/6/87	<i>(initials)</i>	A00234	1	120	4080	
DUPLICATE TAPE	7/6/87	<i>(initials)</i>	W11078*	1	120	4080	
REFORMATTED TAPE							
REFORMATTED DISK							
FIRST MULCHEK	7/10/87	<i>CAF</i>	SGZDATA. F191 BR4328	1	120		173,946
FINAL MULCHEK							
MPD75 OR F022	7/15/87	<i>CAF</i>	MPD75. BR4328 / F191	1	120		
DATA SET FINALIZED	7/15/87		..	1	120		173,946

* 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. 8600167

FILETYPE F191

TRACK NO. BR4362-4399

PROJECT IDENTIFICATION TOGA

STEP	DATE	INIT.	TAPE OR DISK DSN	NO. FILES	RECL	BLK SIZE	NO. RECORDS
ORIG. TAPE	7/6/87	(DB)	A00235	1	120	4080	
DUPLICATE TAPE	7/6/87	(DB)	W12068*	1	120	4080	
REFORMATTED TAPE							
REFORMATTED DISK							
FIRST MULCHEK	7/10/87	CBA	SELDATA.F191 BR 4362	1	120		55,902
FINAL MULCHEK							
MPD75 OR F022	7/15/87	CBA	MPD75. BR4362/F191	1	120		55,902
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.)

Tape 1

32301 04018600 04308623
32302 04018600 04308623
41002 04018600 04308623
41006 04018600 04308623
41007 04018600 04018616
42001 04018600 04308623
42002 04018600 04218603 04238615 04308623
42003 04018600 04168604 04178602 04308623
42007 04018600 04308623
42009 04148622 04308623
44004 04018600 04308623
44005 04018600 04128611
44007 04018600 04308623
44008 04018600 04308623
44009 04018600 04138611
44011 04018616 04308623
44012 04018600 04308623
44013 04018600 04308623

Tape 2

46001 04018600 04308623
46002 04018600 04308623
46003 04018600 04308623
46004 04018600 04308623
46005 04018600 04308623
46010 04018600 04308623
46011 04018600 04308623
46012 04018600 04308623
46014 04018600 04308623
46016 04018600 04308623
46017 04018600 04308623
46022 04018600 04308623
46023 04018600 04308623
46025 04018600 04308623
46026 04018600 04308623
46027 04018600 04308623
46028 04018600 04308623
46030 04018600 04308623
46035 04018600 04308623
46125 04018600 04308623
51002 04018600 04308623
51003 04018600 04308623
51004 04018600 04308623
51005 04018600 04308623

Tape 3

ALRF1 04018600 04308623
ALSN6 04018600 04308623
BURL1 04018600 04308623
BUZM3 04018600 04308623

CAR03	04018600	04308623
CHLV2	04018600	04308623
CLKN7	04018600	04308623
CSBF1	04018600	04308623
DBLN6	04018600	04308623
DESW1	04018600	04308623
DISW3	04018600	04308623
DSLN7	04018600	04308623
FBIS1	04018600	04308623
FFIA2	04018600	04308623
FPSN7	04018600	04308623
GDIL1	04018600	04308623
GLLN6	04018600	04308623
IOSN3	04018600	04308623
LKWF1	04018600	04308623
MDRM1	04018600	04308623
MISM1	04018600	04308623
NWPO3	04018600	04308623
PILM4	04018600	04308623
PTAC1	04018600	04308623
PTAT2	04018600	04308623
PTGC1	04018600	04308623
ROAM4	04018600	04308623
SBIO1	04018600	04308623
SGNW3	04018600	04308623
SISW1	04018600	04308623
SJLF1	04018600	04308623
SPGF1	04018600	04308623
SRST2	04018600	04308623
STDM4	04018600	04308623
SVLS1	04018600	04308623
TPLM2	04018600	04308623
TTIW1	04018600	04308623
WPOW1	04018600	04308623

DATE	STATION ID	POSITIONS LAT.	LONG.	WAVES	STATION TYPE
	32301	10.0	105.0	WA	BUOY
	32302	18.0	85.1	WA	BUOY
	41002	32.3	75.3	WDA	BUOY
	41006	29.3	77.3	WDA	BUOY
	41007	34.2	76.5	WA	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	N/A	BUOY
	44011	41.1	66.6	WDA	BUOY
	44012	38.8	74.6	N/A	BUOY
	44013	42.4	70.8	N/A	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
	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
	46030	40.4	124.5	N/A	BUOY
	46035	57.0	177.7	WDA	BUOY
	46125	33.8	119.1	DWA	BUOY
	51002	17.2	157.8	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	N/A	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
	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	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
SFGF1	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
WPOW1	47.7	122.4	N/A	LAND

J: E/OC12 - C. Noe
E/OC11 - P. Hadsell
FROM: E/OC13 - A. Picciolo F.J.M. /for
DATE: JUNE 8, 1987
SUBJECT: Data Transfer

The following listed data sets have been transferred as indicated:

ARCHIVES BRANCH (E/OC11)

WIND/WAVE SPECTRA (F191)

ACC: 8600 167 REF: BR 4300 - 4317 ✓

BR 4328 - 4351

APRIL 1987

BR 4362 - 4399

80 STATIONS

330,480 RECORDS

DRIFTING BUOYS (F156)

ACC: 8700 133 REF: TT 9582 - 9649 TOGA

68 STATIONS 14,629 RECORDS

FEBRUARY 1987

DATA PROCESSING BRANCH (E/OC12) XBT's

cc: E/OC1 - I. Perlroth

VESS SER	REF NUMBER	FILE TYPE	PROJ CODE	INST	PLAT	CRUISE NO	CRUISE START	CRUISE END	NUM STA	NUM REC
8600167	BR4300	F191		313B	317F	32301	04/01/86	04/30/86	1	7,166
8600167	BR4301	F191		313B	317F	32302	04/01/86	04/30/86	1	7,148
8600167	BR4302	F191		313B	317F	41002	04/01/86	04/30/86	1	8,522
8600167	BR4303	F191		313B	317F	41006	04/01/86	04/30/86	1	8,626
8600167	BR4304	F191		313B	317F	41007	04/01/86	04/01/86	1	320
8600167	BR4305	F191		313B	317F	42001	04/01/86	04/30/86	1	7,180
8600167	BR4306	F191		313B	317F	42002	04/01/86	04/30/86	1	6,494
8600167	BR4307	F191		313B	317F	42003	04/01/86	04/30/86	1	6,948
8600167	BR4308	F191		313B	317F	42007	04/01/86	04/30/86	1	7,166
8600167	BR4309	F191		313B	317F	42009	04/14/86	04/30/86	1	3,584
8600167	BR4310	F191		313B	317F	44004	04/01/86	04/30/86	1	8,598
8600167	BR4311	F191		313B	317F	44005	04/01/86	04/12/86	1	2,656
8600167	BR4312	F191		313B	317F	44007	04/01/86	04/30/86	1	7,166
8600167	BR4313	F191		313B	317F	44008	04/01/86	04/30/86	1	7,182
8600167	BR4314	F191		313B	317F	44009	04/01/86	04/13/86	1	594
8600167	BR4315	F191		313B	317F	44011	04/01/86	04/30/86	1	8,426
8600167	BR4316	F191		313B	317F	44012	04/01/86	04/30/86	1	1,428
8600167	BR4317	F191		313B	317F	44013	04/01/86	04/30/86	1	1,464

ACCESS NUMBER	REF NUMBER	FILE TYPE	PROJ CODE	INST	PLAT	CRUISE NO	CRUISE START	CRUISE END	NUM STA	NUM REC
8600167	BR4328	F191		313B	317F	46001	04/01/86	04/30/86	1	8,584
8600167	BR4329	F191		313B	317F	46002	04/01/86	04/30/86	1	8,616
8600167	BR4330	F191		313B	317F	46003	04/01/86	04/30/86	1	8,610
8600167	BR4331	F191		313B	317F	46004	04/01/86	04/30/86	1	8,618
8600167	BR4332	F191		313B	317F	46005	04/01/86	04/30/86	1	8,616
8600167	BR4333	F191		313B	317F	46010	04/01/86	04/30/86	1	7,164
8600167	BR4334	F191		313B	317F	46011	04/01/86	04/30/86	1	8,594
8600167	BR4335	F191		313B	317F	46012	04/01/86	04/30/86	1	7,156
8600167	BR4336	F191		313B	317F	46014	04/01/86	04/30/86	1	2,700
8600167	BR4337	F191		313B	317F	46022	04/01/86	04/30/86	1	8,584
8600167	BR4338	F191		313B	317F	46023	04/01/86	04/30/86	1	7,102
8600167	BR4339	F191		313B	317F	46025	04/01/86	04/30/86	1	7,170
8600167	BR4340	F191		313B	317F	46026	04/01/86	04/30/86	1	7,154
8600167	BR4341	F191		313B	317F	46027	04/01/86	04/30/86	1	6,860
8600167	BR4342	F191		313B	317F	46028	04/01/86	04/30/86	1	8,606
8600167	BR4343	F191		313B	317F	46030	04/01/86	04/30/86	1	1,436
8600167	BR4344	F191		313B	317F	46035	04/01/86	04/30/86	1	7,166
8600167	BR4345	F191		313B	317F	46125	04/01/86	04/30/86	1	17,221
8600167	BR4346	F191		313B	317F	51002	04/01/86	04/30/86	1	8,628
8600167	BR4347	F191		313B	317F	51003	04/01/86	04/30/86	1	8,616
0167	BR4348	F191		313B	317F	51004	04/01/86	04/30/86	1	8,640
0167	BR4349	F191		313B	317F	51005	04/01/86	04/30/86	1	7,148
8600167	BR4350	F191		313B	317F	CHLV2	04/01/86	04/30/86	1	1,447

ACCESS NUMBER	REF NUMBER	FILE TYPE	PROJ CODE	INST	PLAT	CRUISE NO	CRUISE START	CRUISE END	NUM STA	NUM REC
8600167	BR4361	F191		313B	317F	46016	04/01/86	04/30/86	1	480
8600167	BR4362	F191		313B	317F	46017	04/01/86	04/30/86	1	472
8600167	BR4363	F191		313B	317F	ALRF1	04/01/86	04/30/86	1	1,436
8600167	BR4364	F191		313B	317F	ALSNS	04/01/86	04/30/86	1	1,434
8600167	BR4365	F191		313B	317F	BURL1	04/01/86	04/30/86	1	1,434
8600167	BR4366	F191		313B	317F	BUZM3	04/01/86	04/30/86	1	1,436
8600167	BR4367	F191		313B	317F	CARD3	04/01/86	04/30/86	1	1,436
8600167	BR4368	F191		313B	317F	CLKN7	04/01/86	04/30/86	1	1,438
8600167	BR4369	F191		313B	317F	CSBF1	04/01/86	04/30/86	1	1,432
8600167	BR4370	F191		313B	317F	DBLN6	04/01/86	04/30/86	1	1,390
8600167	BR4371	F191		313B	317F	DESW1	04/01/86	04/30/86	1	1,438
8600167	BR4372	F191		313B	317F	DISW3	04/01/86	04/30/86	1	1,434
8600167	BR4373	F191		313B	317F	DSLN7	04/01/86	04/30/86	1	2,862
8600167	BR4374	F191		313B	317F	FBIS1	04/01/86	04/30/86	1	1,438
8600167	BR4375	F191		313B	317F	FFIA2	04/01/86	04/30/86	1	1,438
8600167	BR4376	F191		313B	317F	FPSN7	04/01/86	04/30/86	1	1,436
8600167	BR4377	F191		313B	317F	GDIL1	04/01/86	04/30/86	1	1,432
8600167	BR4378	F191		313B	317F	GLLN6	04/01/86	04/30/86	1	1,436
8600167	BR4379	F191		313B	317F	IDSN3	04/01/86	04/30/86	1	1,438
8600167	BR4380	F191		313B	317F	LKWF1	04/01/86	04/30/86	1	1,438
8600167	BR4381	F191		313B	317F	MDRM1	04/01/86	04/30/86	1	1,438
8600167	BR4382	F191		313B	317F	MISM1	04/01/86	04/30/86	1	1,438
8600167	BR4383	F191		313B	317F	NWPD3	04/01/86	04/30/86	1	1,438
8600167	BR4384	F191		313B	317F	PILM4	04/01/86	04/30/86	1	1,436
8600167	BR4385	F191		313B	317F	PTAC1	04/01/86	04/30/86	1	1,436
8600167	BR4386	F191		313B	317F	PTAT2	04/01/86	04/30/86	1	1,434
8600167	BR4387	F191		313B	317F	PTGC1	04/01/86	04/30/86	1	1,426
8600167	BR4388	F191		313B	317F	ROAM4	04/01/86	04/30/86	1	1,434
8600167	BR4389	F191		313B	317F	SBIO1	04/01/86	04/30/86	1	1,404
8600167	BR4390	F191		313B	317F	SGNW3	04/01/86	04/30/86	1	1,438
8600167	BR4391	F191		313B	317F	SISW1	04/01/86	04/30/86	1	1,434
8600167	BR4392	F191		313B	317F	SJLF1	04/01/86	04/30/86	1	1,438
8600167	BR4393	F191		313B	317F	SPGF1	04/01/86	04/30/86	1	1,438
8600167	BR4394	F191		313B	317F	SRST2	04/01/86	04/30/86	1	1,432
8600167	BR4395	F191		313B	317F	STDM4	04/01/86	04/30/86	1	1,438
8600167	BR4396	F191		313B	317F	SVLS1	04/01/86	04/30/86	1	1,438
8600167	BR4397	F191		313B	317F	TPLM2	04/01/86	04/30/86	1	1,438
8600167	BR4398	F191		313B	317F	TTIW1	04/01/86	04/30/86	1	1,436
8600167	BR4399	F191		313B	317F	WPDW1	04/01/86	04/30/86	1	1,436

Password:

accNo	flea	refNo	proj	inst	ship	startDate	cruise	catId
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8600167	F291	BR4301	9999	313B	317F	1986/04/01	32302	163713
8600167	F291	BR4302	9999	313B	317F	1986/04/01	41002	163714
8600167	F291	BR4303	9999	313B	317F	1986/04/01	41006	163715
8600167	F291	BR4304	9999	313B	317F	1986/04/01	41007	163716
8600167	F291	BR4305	9999	313B	317F	1986/04/01	42001	163717
8600167	F291	BR4306	9999	313B	317F	1986/04/01	42002	163718
8600167	F291	BR4307	9999	313B	317F	1986/04/01	42003	163719
8600167	F291	BR4308	9999	313B	317F	1986/04/01	42007	163720
8600167	F291	BR4309	9999	313B	317F	1986/04/14	42009	163721
8600167	F291	BR4310	9999	313B	317F	1986/04/01	44004	163722
8600167	F291	BR4311	9999	313B	317F	1986/04/01	44005	163723
8600167	F291	BR4312	9999	313B	317F	1986/04/01	44007	163724
8600167	F291	BR4313	9999	313B	317F	1986/04/01	44008	163725
8600167	F291	BR4314	9999	313B	317F	1986/04/01	44009	163726
8600167	F291	BR4315	9999	313B	317F	1986/04/01	44011	163727
8600167	F291	BR4316	9999	313B	317F	1986/04/01	44012	163728
8600167	F291	BR4317	9999	313B	317F	1986/04/01	44013	163729
8600167	F291	BR4328	9999	313B	317F	1986/04/01	46001	163730
8600167	F291	BR4329	9999	313B	317F	1986/04/01	46002	163731
8600167	F291	BR4330	9999	313B	317F	1986/04/01	46003	163732
8600167	F291	BR4331	9999	313B	317F	1986/04/01	46004	163733
8600167	F291	BR4332	9999	313B	317F	1986/04/01	46005	163734
8600167	F291	BR4333	9999	313B	317F	1986/04/01	46010	163735
8600167	F291	BR4334	9999	313B	317F	1986/04/01	46011	163736
8600167	F291	BR4335	9999	313B	317F	1986/04/01	46012	163737
8600167	F291	BR4336	9999	313B	317F	1986/04/01	46014	163738
8600167	F291	BR4337	9999	313B	317F	1986/04/01	46016	163739
8600167	F291	BR4338	9999	313B	317F	1986/04/01	46017	163740
8600167	F291	BR4339	9999	313B	317F	1986/04/01	46022	163741
8600167	F291	BR4340	9999	313B	317F	1986/04/01	46023	163742
8600167	F291	BR4341	9999	313B	317F	1986/04/01	46025	163743
8600167	F291	BR4342	9999	313B	317F	1986/04/01	46026	163744
8600167	F291	BR4343	9999	313B	317F	1986/04/01	46027	163745
8600167	F291	BR4344	9999	313B	317F	1986/04/01	46028	163746
8600167	F291	BR4345	9999	313B	317F	1986/04/01	46030	163747
8600167	F291	BR4346	9999	313B	317F	1986/04/01	46035	163748
8600167	F291	BR4347	9999	313B	317F	1986/04/01	46125	163749
8600167	F291	BR4348	9999	313B	317F	1986/04/01	51002	163750
8600167	F291	BR4349	9999	313B	317F	1986/04/01	51003	163751
8600167	F291	BR4350	9999	313B	317F	1986/04/01	51004	163752
8600167	F291	BR4362	9999	313B	317F	1986/04/01	ALRF1	163753
8600167	F291	BR4363	9999	313B	317F	1986/04/01	ALSN6	163754
8600167	F291	BR4364	9999	313B	317F	1986/04/01	BURL1	163755
8600167	F291	BR4365	9999	313B	317F	1986/04/01	BUZM3	163756
8600167	F291	BR4366	9999	313B	317F	1986/04/01	CARO3	163757
8600167	F291	BR4367	9999	313B	317F	1986/04/01	CHLV2	163758
8600167	F291	BR4368	9999	313B	317F	1986/04/01	CLKN7	163759
8600167	F291	BR4369	9999	313B	317F	1986/04/01	CSBF1	163760
8600167	F291	BR4370	9999	313B	317F	1986/04/01	DBLN6	163761
8600167	F291	BR4371	9999	313B	317F	1986/04/01	DESW1	163762
8600167	F291	BR4372	9999	313B	317F	1986/04/01	DISW3	163763
8600167	F291	BR4373	9999	313B	317F	1986/04/01	DSLN7	163764
8600167	F291	BR4374	9999	313B	317F	1986/04/01	FBIS1	163765
8600167	F291	BR4375	9999	313B	317F	1986/04/01	FFIA2	163766
8600167	F291	BR4376	9999	313B	317F	1986/04/01	FPSN7	163767

8600167	F291	BR4377	9999	313B	317F	1986/04/01	GDIL1	163768
8600167	F291	BR4378	9999	313B	317F	1986/04/01	GLLN6	163769
8600167	F291	BR4379	9999	313B	317F	1986/04/01	IOSN3	163770
8600167	F291	BR4380	9999	313B	317F	1986/04/01	LKWF1	163771
8600167	F291	BR4381	9999	313B	317F	1986/04/01	MDRM1	163772
8600167	F291	BR4382	9999	313B	317F	1986/04/01	MISM1	163773
8600167	F291	BR4383	9999	313B	317F	1986/04/01	NWPO3	163774
8600167	F291	BR4384	9999	313B	317F	1986/04/01	PILM4	163775
8600167	F291	BR4385	9999	313B	317F	1986/04/01	PTAC1	163776
8600167	F291	BR4386	9999	313B	317F	1986/04/01	PTAT2	163777
8600167	F291	BR4387	9999	313B	317F	1986/04/01	PTGC1	163778
8600167	F291	BR4388	9999	313B	317F	1986/04/01	ROAM4	163779
8600167	F291	BR4389	9999	313B	317F	1986/04/01	SBIO1	163780
8600167	F291	BR4390	9999	313B	317F	1986/04/01	SGNW3	163781
8600167	F291	BR4391	9999	313B	317F	1986/04/01	SISW1	163782
8600167	F291	BR4392	9999	313B	317F	1986/04/01	SJLF1	163783
8600167	F291	BR4393	9999	313B	317F	1986/04/01	SPGF1	163784
8600167	F291	BR4394	9999	313B	317F	1986/04/01	SRST2	163785
8600167	F291	BR4395	9999	313B	317F	1986/04/01	STDMA	163786
8600167	F291	BR4396	9999	313B	317F	1986/04/01	SVLS1	163787
8600167	F291	BR4397	9999	313B	317F	1986/04/01	TPLM2	163788
8600167	F291	BR4398	9999	313B	317F	1986/04/01	TTIW1	163789
8600167	F291	BR4399	9999	313B	317F	1986/04/01	WPOW1	163790
8600167	F291	BR4351	9999	313B	317F	1986/04/01	51005	163791

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8600167	F291	BR4302	317F	1	8522	86/04/01	86/04/01
8600167	F291	BR4303	317F	1	8628	86/04/01	86/04/01
8600167	F291	BR4304	317F	1	320	86/04/01	86/04/01
8600167	F291	BR4305	317F	1	7180	86/04/01	86/04/01
8600167	F291	BR4306	317F	1	6494	86/04/01	86/04/01
8600167	F291	BR4307	317F	1	6948	86/04/01	86/04/01
8600167	F291	BR4308	317F	1	7166	86/04/01	86/04/01
8600167	F291	BR4309	317F	1	3584	86/04/14	86/04/14
8600167	F291	BR4310	317F	1	8598	86/04/01	86/04/01
8600167	F291	BR4311	317F	1	2644	86/04/01	86/04/01
8600167	F291	BR4312	317F	1	7166	86/04/01	86/04/01
8600167	F291	BR4313	317F	1	7182	86/04/01	86/04/01
8600167	F291	BR4314	317F	1	594	86/04/01	86/04/01
8600167	F291	BR4315	317F	1	8426	86/04/01	86/04/01
8600167	F291	BR4316	317F	1	1420	86/04/01	86/04/01
8600167	F291	BR4317	317F	1	1444	86/04/01	86/04/01
8600167	F291	BR4328	317F	1	8584	86/04/01	86/04/01
8600167	F291	BR4329	317F	1	8616	86/04/01	86/04/01
8600167	F291	BR4330	317F	1	8616	86/04/01	86/04/01
8600167	F291	BR4331	317F	1	8616	86/04/01	86/04/01
8600167	F291	BR4332	317F	1	8616	86/04/01	86/04/01
8600167	F291	BR4333	317F	1	7164	86/04/01	86/04/01
8600167	F291	BR4334	317F	1	8594	86/04/01	86/04/01
8600167	F291	BR4335	317F	1	7156	86/04/01	86/04/01
8600167	F291	BR4336	317F	1	2698	86/04/01	86/04/01
8600167	F291	BR4337	317F	1	480	86/04/01	86/04/01
8600167	F291	BR4338	317F	1	472	86/04/01	86/04/01
8600167	F291	BR4339	317F	1	8584	86/04/01	86/04/01
8600167	F291	BR4340	317F	1	7102	86/04/01	86/04/01
8600167	F291	BR4341	317F	1	7170	86/04/01	86/04/01
8600167	F291	BR4342	317F	1	7154	86/04/01	86/04/01
8600167	F291	BR4343	317F	1	6860	86/04/01	86/04/01
8600167	F291	BR4344	317F	1	8606	86/04/01	86/04/01
8600167	F291	BR4345	317F	1	1436	86/04/01	86/04/01
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8600167	F291	BR4347	317F	1	17208	86/04/01	86/04/01
8600167	F291	BR4348	317F	1	8628	86/04/01	86/04/01
8600167	F291	BR4349	317F	1	8616	86/04/01	86/04/01
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8600167	F291	BR4364	317F	1	1434	86/04/01	86/04/01
8600167	F291	BR4365	317F	1	1436	86/04/01	86/04/01
8600167	F291	BR4366	317F	1	1436	86/04/01	86/04/01
8600167	F291	BR4367	317F	1	1436	86/04/01	86/04/01
8600167	F291	BR4368	317F	1	1438	86/04/01	86/04/01
8600167	F291	BR4369	317F	1	1432	86/04/01	86/04/01
8600167	F291	BR4370	317F	1	1382	86/04/01	86/04/01
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8600167	F291	BR4372	317F	1	1434	86/04/01	86/04/01
8600167	F291	BR4373	317F	1	2862	86/04/01	86/04/01
8600167	F291	BR4374	317F	1	1438	86/04/01	86/04/01
8600167	F291	BR4375	317F	1	1438	86/04/01	86/04/01
8600167	F291	BR4376	317F	1	1436	86/04/01	86/04/01

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8600167	F291	BR4387	317F	1	1426	86/04/01	86/04/01
8600167	F291	BR4388	317F	1	1434	86/04/01	86/04/01
8600167	F291	BR4389	317F	1	1390	86/04/01	86/04/01
8600167	F291	BR4390	317F	1	1438	86/04/01	86/04/01
8600167	F291	BR4391	317F	1	1434	86/04/01	86/04/01
8600167	F291	BR4392	317F	1	1438	86/04/01	86/04/01
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8600167	F291	BR4394	317F	1	1432	86/04/01	86/04/01
8600167	F291	BR4395	317F	1	1438	86/04/01	86/04/01
8600167	F291	BR4396	317F	1	1438	86/04/01	86/04/01
8600167	F291	BR4397	317F	1	1438	86/04/01	86/04/01
8600167	F291	BR4398	317F	1	1436	86/04/01	86/04/01
8600167	F291	BR4399	317F	1	1452	86/04/01	86/04/01
8600167	F291	BR4351	317F	1	7166	86/04/01	86/04/01

(80 rows affected)