

Reference #

BR6937-6960

ACCESSION NUMBER

8800185

May 1988

DATA DOCUMENTATION FORM

F191

NOAA FORM 24-13 (4-77)

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

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

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

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

A. ORIGINATOR IDENTIFICATION

THIS SECTION MUST BE COMPLETED BY DONOR FOR ALL DATA TRANSMITTALS

1. NAME AND ADDRESS OF INSTITUTION, LABORATORY, OR ACTIVITY WITH WHICH SUBMITTED DATA ARE ASSOCIATED Sallie Nolan NOAA/National Data Buoy Center NSTL Station, MS. 39529			
2. EXPEDITION, PROJECT, OR PROGRAM DURING WHICH DATA WERE COLLECTED TOEA		3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT	
4. PLATFORM NAME(S) —	5. PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.) Buoy	6. PLATFORM AND OPERATOR NATIONALITY(IES) Buoy USA	7. DATES FROM: MO, DAY, YR TO: MO, DAY, YR 05/01/88 05/31/88
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 R. Nolan FTS-494-1721			

Reference #

BR 6961-6988

ACCESSION NUMBER

8800125

May 1988

DATA DOCUMENTATION FORM

F191

NOAA FORM 14-13 (4-77)

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

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

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

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

A. ORIGINATOR IDENTIFICATION

THIS SECTION MUST BE COMPLETED BY DONOR FOR ALL DATA TRANSMITTALS

1. NAME AND ADDRESS OF INSTITUTION, LABORATORY, OR ACTIVITY WITH WHICH SUBMITTED DATA ARE ASSOCIATED Sallie Nolan NOAA/National Data Buoy Center NSTL Station, MS. 39529			
2. EXPEDITION, PROJECT, OR PROGRAM DURING WHICH DATA WERE COLLECTED TOEA		3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT	
4. PLATFORM NAME(S) —	5. PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.) Buoy	6. PLATFORM AND OPERATOR NATIONALITY(IES) Buoy USA	7. DATES FROM: MO, DAY, YR TO: MO, DAY, YR 05/01/88 05/01/88
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. Nolan FTS-494-1721	

Reference #

BR 6989-7030

ACCESSION NUMBER

8800185

May 1988

DATA DOCUMENTATION FORM

PT191

NOAA FORM 2-13 (4-77)

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

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

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

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

A. ORIGINATOR IDENTIFICATION

THIS SECTION MUST BE COMPLETED BY DONOR FOR ALL DATA TRANSMITTALS

1. NAME AND ADDRESS OF INSTITUTION, LABORATORY, OR ACTIVITY WITH WHICH SUBMITTED DATA ARE ASSOCIATED

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

EXPEDITION, PROJECT, OR PROGRAM DURING WHICH DATA WERE COLLECTED

TOGA

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

4. PLATFORM NAME(S)

N/A

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

BUOY

6. PLATFORM AND OPERATOR NATIONALITY (IES)

USA

7. DATES FROM: MO, DAY, YR TO: MO, DAY, YR

05/01/88 05/31/88

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

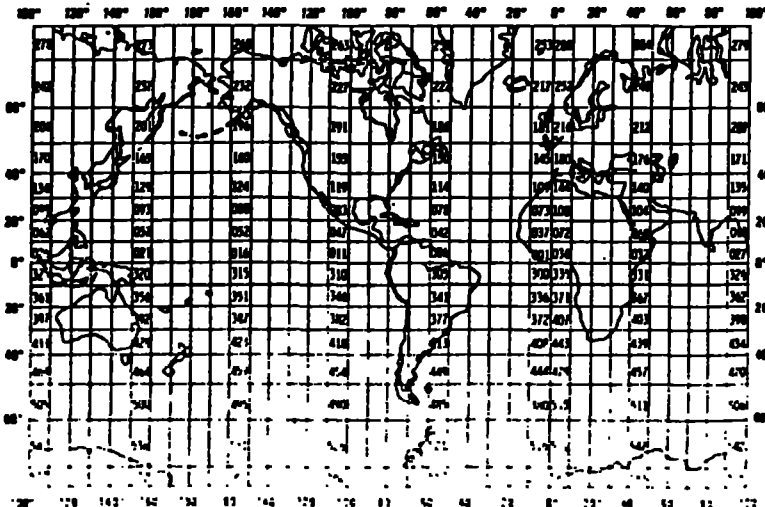
9. ARE DATA DECLARED NATIONAL PROGRAM (DNP)?

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

NO YES PART (SPECIFY BELOW)

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

Sallie P. Nolan
8-494-1721



DATA FORMAT

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

**1. LIST RECORD TYPES CONTAINED IN THE TRANSMITTAL OF YOUR FILE
GIVE METHOD OF IDENTIFYING EACH RECORD TYPE**

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

2. GIVE BRIEF DESCRIPTION OF FILE ORGANIZATION

3. ATTRIBUTES AS EXPRESSED IN

<input type="checkbox"/> PL-1	<input type="checkbox"/> ALGOL	<input type="checkbox"/> COBOL
<input checked="" type="checkbox"/> FORTRAN	<input type="checkbox"/> _____	<input type="checkbox"/> 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., Min, 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
LONG. 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					
<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 FORMAT DESCRIPTION

RECORD NAME File Type "191"

14. FIELD NAME	15. POSITION FROM-1 MEASURED IN <small>(e.g., Mm, bytes)</small>	16. 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 SEA SURFACE	77	3		I3	Meters to tenths, from reference level
TEMPERATURE SEA SURFACE	80	4		I4	Temperature Celsius to hundredths
SALINITY	84	5		I5	Parts per thousand to thousandths
CONDUCTIVITY	89	5		I5	Millimhos/cm to thousandths
DOMINANT WAVE PERIOD	94	3		I3	Seconds to tenths
MAXIMUM WAVE HEIGHT	97	3		I3	Meters to tenths.
MAXIMUM WAVE STEEPNESS	100	3		I3	To be defined
WIND GUST	103	4		I4	Meters/sec. to hundredths
WIND GUST(avg.pd.) AVERAGING PERIOD	107	2		I2	Seconds
WIND GUST	109	4		I4	Meters/sec. to hundredths
WIND GUST	113	2		I2	Seconds
WIND SPEED(58 min. average)	115	3		I3	Meters/sec. to tenths whole degrees
WIND DIRECTION(58 min. average)	118	3		I3	Whole degrees
WAVE SPECTRA DATA RECORD					
FILE TYPE	1	3		A3	"191" (constant)
FILE DATE	4	6		3I2	Yr.,Mo.,Day of file generation
RECORD TYPE	10	1		A1	"3"(Wave Spectra Data Record)
STATION	11	6		A6	Unique name of observation point
OBSERVED DATE	17	6		3I2	Year, Month, Day (GMT)
OBSERVED TIME	23	4		2I2	Hours, Minutes (GMT)
INTERVALS PER DIRECTION	27	3		I3	Zero for non-directional spectra, or total number of frequencies in this direction
DIRECTION	30	4		I4	Blank for non-directional spectra, or degrees to tenths from true N for frequencies on this record

RECORD FORMAT DESCRIPTION

RECORD NAME File type "191"

14. FIELD NAME	15. POSITION FROM-1 MEASURED IN (e.g., Mo., bytes)	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	

RECORD FORMAT DESCRIPTION

RECORD NAME File Type "191"

14. FIELD NAME	15. POSITION FROM-1 MEASURED IN <small>(e.g., Min, 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 FORMAT DESCRIPTION

RECORD NAME File Type "191"

14. FIELD NAME	15. POSITION FROM-1 MEASURED IN (e.g. Min, 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 uncorrected values of Co and Quad spectra in meters squared/Hz. The order these spectra are presented is: C ₁₁ , C ₂₂ , C ₃₃ , C ₁₂ , Q ₁₂ , C ₁₃ , Q ₁₃ , C ₂₃ , and Q ₂₃
EXPONENT	42	2	Bytes	I2	Where subscripts are defined as follows:
CO-SPECTRA C ₂₂	44	6	Bytes	I6	
EXPONENT	50	2	Bytes	I2	1. Heave
CO-SPECTRA C ₃₃	52	6	Bytes	I6	2. E-W Slope
EXPONENT	58	2	Bytes	I2	3. N-S Slope
CO-SPECTRA C ₁₂	60	6	Bytes	I6	If the exponent is less than -9 the exponent and its associated spectra should be zero
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 FORMAT DESCRIPTION

RECORD NAME File Type "191"

14. FIELD NAME	15. POSITION FROM-1 MEASURED IN (e.g. Min, 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	8C
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
Cl18 (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
Cl18 (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
Cl18 (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, $R1 = (SQRT(A1*A1+B1*B1))/A0$, $R2 = (SQRT(A2*A2+B2*B2))/A0$, $A1 = ARGTAN(B1,A1)$, $A2 = (1/2)ARGTAN(B2,A2) + 0$ or PI . $Cl18(K*M/HZ) = (C22+C33)/(K*K)$ in which K, the propagation constant, is the solution to $W*W = G*K*TANH(K*D)$, in which $W = 2*PI*V$, $G = 9.806$ M/(SEC*SEC), and D is mean water depth in meters.



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

June 30, 1988

F1804-02
DB3:88-321
SPN:im

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

Dear Ms. Green:

Enclosed are the May 1988 9TK, 1600 BPI, NDBC archive tapes, recorded in the 191 tape format. The enclosure contains a list of stations and the inclusive dates that are on each tape.

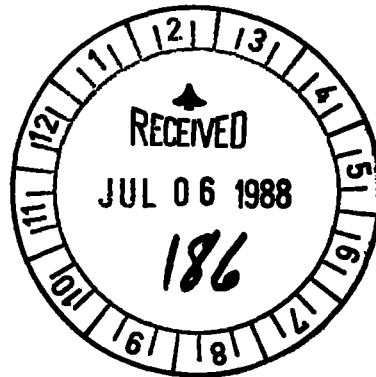
If you have any questions, please call B.G. Redmon at FTS 494-2834, or Commercial (601) 688-2834.

Sincerely,

Sallie P. Nolan

Sallie P. Nolan
ADP Manager

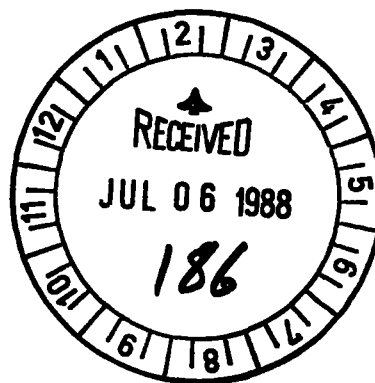
Enclosures



Attachment

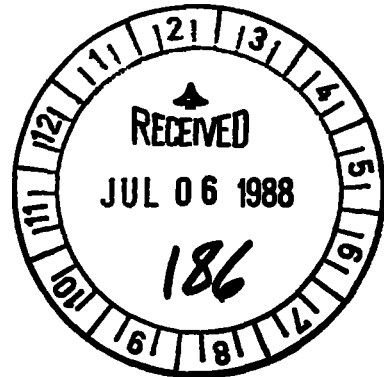
Tape 1: 32302 05018800-05318823
41002 05018800-05318823
41008 05018800-05318823
42001 05018800-05318823
42002 05018800-05288803
42003 05268818-05318823
42007 05018800-05318823
42015 05018800-05318823
42016 05018800-05318823
44004 05018800-05318823
44007 05018800-05318823
44008 05018800-05318823
44009 05018800-05318823
44011 05218800-05318823
44012 05018800-05318823
44013 05018800-05318823
45001 05278814-05318823
45002 05018800-05318823
45003 05018800-05318823
45004 05018800-05318823
45005 05018800-05318823
45006 05018800-05318823
45007 05018800-05318823
45008 05028820-05318823

Tape 2: 46001 05018800-05318823
46002 05018800-05318823
46003 05018800-05318823
46004 05018800-05318823
46005 05018800-05318823
46010 05018800-05258802
46011 05018800-05318823
46012 05018800-05318823
46013 05018800-05318823
46014 05018800-05318823
46016 05018800-05318823
46017 05018800-05318823
46022 05018800-05318823
46023 05018800-05318823
46025 05018800-05318823
46026 05018800-05298802
46027 05018800-05318823
46028 05018800-05318823
46030 05018800-05108813
46035 05018800-05318823
46039 05058820-05318823
46040 05268820-05318823
46041 05018800-05318823
46042 05018800-05318823



46125 05018800-05318823
51001 05018800-05318823
51003 05018800-05318823
51005 05018800-05318823

Tape 3 :ALSN6 05018800-05318823
BURL1 05018800-05318823
BUZM3 05018800-05318823
CARO3 05018800-05318823
CHLV2 05018800-05318823
CLKN7 05018800-05318823
CSBF1 05018800-05318823
DBLN6 05018800-05318823
DESW1 05018800-05318823
DISW3 05018800-05318823
DPIA1 05018800-05318823
DSLN7 05018800-05318823
FBIS1 05018800-05318823
FFIA2 05018800-05318823
FPSN7 05018800-05318823
GDIL1 05018800-05318823
GLLN6 05018800-05318823
IOSN3 05018800-05318823
LKWF1 05018800-05318823
MDRM1 05018800-05318823
MISM1 05018800-05318823
MLRF1 05018800-05318823
MPCL1 05018800-05318823
NWPO3 05018800-05318823
PILM4 05018800-05318823
PTAC1 05018800-05318823
PTAT2 05018800-05318823
PTGC1 05018800-05318823
ROAM4 05018800-05318823
SAUF1 05018800-05318823
SBI01 05018800-05318823
SGNW3 05018800-05318823
SISW1 05018800-05318823
SMKF1 05018800-05318823
SPGF1 05018800-05318823
SRST2 05018800-05318823
STDM4 05018800-05318823
SVLS1 05018800-05318823
TPLM2 05018800-05318823
TTIW1 05018800-05318823
VENF1 05018800-05318823
WPOW1 05018800-05318823



USER NAME: Green Irish PHONE #: _____ ORG/TASK #: _____ DATE SUBMITTED: 7-7-88 DATE DUE: _____ BIN #: 27

EQUIPMENT TO BE USED AND FUNCTION TO BE PERFORMED

Scan

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

TAPE/DISKETTE INFORMATION

	TAPE #/ DISKETTE	SLOT #	TRK	DENSITY	PARITY	LABEL TYPE	RECORD TYPE	RECORD LENGTH	MAX. BLOCK SIZE	# OF FILES	
INPUT	<u>400763</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				PURGE DATE
	TAPE #/ DISKETTE	SLOT #	TRK	DENSITY	PARITY	LABEL TYPE	RECORD TYPE	RECORD LENGTH	MAX. BLOCK SIZE	# OF FILES	
	SECTOR SIZE	EXCHANGE TYPE	CODE: ASCII EBCDIC BCD SDF OTHER(SPECIFY)				DATA SET NAME				PURGE DATE
OUTPUT	TAPE #/ DISKETTE	SLOT #	TRK	DENSITY	PARITY	LABEL TYPE	RECORD TYPE	RECORD LENGTH	MAX. BLOCK SIZE	# OF FILES	
	SECTOR SIZE	EXCHANGE TYPE	CODE: ASCII EBCDIC BCD SDF OTHER(SPECIFY)				DATA SET NAME				PURGE DATE
	TAPE #/ DISKETTE	SLOT #	TRK	DENSITY	PARITY	LABEL TYPE	RECORD TYPE	RECORD LENGTH	MAX. BLOCK SIZE	# OF FILES	
	SECTOR SIZE	EXCHANGE TYPE	CODE: ASCII EBCDIC BCD SDF OTHER(SPECIFY)				DATA SET NAME				PURGE DATE

SPECIAL INSTRUCTIONS

ESTIMATED
EXECUTION
TIME

D731 USE ONLY

JOB #	DATE JOB COMPLETED	START TIME	END TIME	PRIORITY	DEVICES USED, NUMBER OF TAPE MOUNTS, LINES PRINTED DISKETTES USED, CARDS PUNCHED, CARDS KEYVERIFIED
<u>88070702</u>	<u>7/07/88</u>	<u>14:35</u>	<u>14:40</u>	<u>C</u>	<u>COMPLETED BY J.S.</u>

COMMENTS

May 1988
 1083
 FT 191

ACCESSION NO 8800185

FILETYPE FT191

TRACK NO. BR6961-6988 PROJECT IDENTIFICATION T06B

STEP	DATE	INIT.	TAPE OR DISK DSN	NO. FILES	RECL	BLK SIZE	NO. RECORD
ORIG. TAPE	07-13-88	(DS)	A00764	1	120	4080	
DUPLICATE TAPE	07-13-88	(DS)	W10394*	1	120	4800	
REFORMATTED TAPE							
REFORMATTED DISK							
FIRST MULCHEK							
FINAL MULCHEK							
MPD75 OR F022							
DATA SET FINALIZED							

* Tape is not label

ERRORS REPORTED TO PRINCIPAL INVESTIGATOR:

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

COMMENTS (TRACKS DELETED, FIELDS DELETED, ETC.)

ACCESSION NO. 8800185

FILETYPE FT191

TRACK NO. BR6989-7030 PROJECT IDENTIFICATION T06A

STEP	DATE	INIT.	TAPE OR DISK DSN	NO. FILES	RECL	BLK SIZE	NO. RECORDS
ORIG. TAPE	07-13-88	<u>02</u>	A00765	1	120	4080	
DUPLICATE TAPE	07-13-88	<u>02</u>	W10708*	1	120	4800	
REFORMATTED TAPE							
REFORMATTED DISK							
FIRST MULCHEK							
FINAL MULCHEK							
MPD75 OR F022							
DATA SET FINALIZED							

*Tape is non-label

ERRORS REPORTED TO PRINCIPAL INVESTIGATOR:

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

COMMENTS (TRACKS DELETED, FIELDS DELETED, ETC.)

D191P

8800185

TO: E/OC12 - C. Noe
E/OC11 - P. Hadsell ←
FROM: E/OC13 - A. Picciolo
DATE: July 29, 1988
SUBJECT: Data Transfer

The following listed data sets have been transferred as indicated:

ARCHIVE AND INVENTORIES BRANCH (E/OC11)

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

Wind/Wave Spectra (F191)

Acc: 8600105 Ref: BR4089 - BR4131 80 sta. 312,868 records
February 1986 - resubmission NOAA-NDBC

Acc: 8800185 Ref: BR6937 - BR7030 94 sta. 560,480 records
May 1988 NOAA-NDBC

546



cc: Division Director

CESS NUMBER	REF NUMBER	FILE TYPE	PROJ CODE	INST	PLAT	CRUISE NO	CRUISE START	CRUISE END	NUM STA	NUM REC
8800185	BR6937	F191		313B	317F	32302	05/01/88	05/31/88	1	7,394
8800185	BR6938	F191		313B	317F	41002	05/01/88	05/31/88	1	8,894
8800185	BR6939	F191		313B	317F	41008	05/01/88	05/31/88	1	45,092
8800185	BR6940	F191		313B	317F	42001	05/01/88	05/31/88	1	7,412
8800185	BR6941	F191		313B	317F	42002	05/01/88	05/28/88	1	1,584
8800185	BR6942	F191		313B	317F	42003	05/26/88	05/31/88	1	1,260
8800185	BR6943	F191		313B	317F	42007	05/01/88	05/31/88	1	7,322
8800185	BR6944	F191		313B	317F	42015	05/01/88	05/31/88	1	45,081
8800185	BR6945	F191		313B	317F	42016	05/01/88	05/31/88	1	45,144
8800185	BR6946	F191		313B	317F	44004	05/01/88	05/31/88	1	8,894
8800185	BR6947	F191		313B	317F	44007	05/01/88	05/31/88	1	7,346
8800185	BR6948	F191		313B	317F	44008	05/01/88	05/31/88	1	7,384
8800185	BR6949	F191		313B	317F	44009	05/01/88	05/31/88	1	7,212
8800185	BR6950	F191		313B	317F	44011	05/21/88	05/31/88	1	3,158
8800185	BR6951	F191		313B	317F	44012	05/01/88	05/31/88	1	7,332
8800185	BR6952	F191		313B	317F	44013	05/01/88	05/31/88	1	7,386
8800185	BR6953	F191		313B	317F	45001	05/27/88	05/31/88	1	948
8800185	BR6954	F191		313B	317F	45002	05/01/88	05/31/88	1	7,326
8800185	BR6955	F191		313B	317F	45003	05/01/88	05/31/88	1	7,430
8800185	BR6956	F191		313B	317F	45004	05/01/88	05/31/88	1	7,414
8800185	BR6957	F191		313B	317F	45005	05/01/88	05/31/88	1	7,312
8800185	BR6958	F191		313B	317F	45006	05/01/88	05/31/88	1	7,358
8800185	BR6959	F191		313B	317F	45007	05/01/88	05/31/88	1	7,402
8800185	BR6960	F191		313B	317F	45008	05/02/88	05/31/88	1	6,981
8800185	BR6961	F191		313B	317F	46001	05/01/88	05/31/88	1	8,904
8800185	BR6962	F191		313B	317F	46002	05/01/88	05/31/88	1	492
8800185	BR6963	F191		313B	317F	46003	05/01/88	05/31/88	1	8,894
8800185	BR6964	F191		313B	317F	46004	05/01/88	05/31/88	1	8,892
8800185	BR6965	F191		313B	317F	46005	05/01/88	05/31/88	1	8,904
8800185	BR6966	F191		313B	317F	46010	05/01/88	05/20/88	1	4,700
8800185	BR6967	F191		313B	317F	46011	05/01/88	05/31/88	1	7,422
8800185	BR6968	F191		313B	317F	46012	05/01/88	05/31/88	1	7,406
8800185	BR6969	F191		313B	317F	46013	05/01/88	05/31/88	1	7,420
8800185	BR6970	F191		313B	317F	46014	05/01/88	05/31/88	1	7,380
8800185	BR6971	F191		313B	317F	46016	05/01/88	05/31/88	1	490
8800185	BR6972	F191		313B	317F	46017	05/01/88	05/31/88	1	492
8800185	BR6973	F191		313B	317F	46022	05/01/88	05/31/88	1	8,880
8800185	BR6974	F191		313B	317F	46023	05/01/88	05/31/88	1	3,788
8800185	BR6975	F191		313B	317F	46025	05/01/88	05/31/88	1	7,382
8800185	BR6976	F191		313B	317F	46026	05/01/88	05/29/88	1	6,676
8800185	BR6977	F191		313B	317F	46027	05/01/88	05/31/88	1	7,316
8800185	BR6978	F191		313B	317F	46028	05/01/88	05/31/88	1	8,724
8800185	BR6979	F191		313B	317F	46030	05/01/88	05/10/88	1	2,282
8800185	BR6980	F191		313B	317F	46035	05/01/88	05/31/88	1	7,186
8800185	BR6981	F191		313B	317F	46039	05/05/88	05/31/88	1	6,134
8800185	BR6982	F191		313B	317F	46040	05/26/88	05/31/88	1	1,208
8800185	BR6983	F191		313B	317F	46041	05/01/88	05/31/88	1	7,384
8800185	BR6984	F191		313B	317F	46042	05/01/88	05/31/88	1	42,523
8800185	BR6985	F191		313B	317F	46125	05/01/88	05/31/88	1	15,393
8800185	BR6986	F191		313B	317F	51001	05/01/88	05/31/88	1	8,904
8800185	BR6987	F191		313B	317F	51003	05/01/88	05/31/88	1	8,906

8800185	BR6988	F191	313B	317F	51005	05/01/88	05/31/88	1	7.288
8800185	BR6989	F191	313B	317F	ALSN6	05/01/88	05/31/88	1	1.484
8800185	BR6990	F191	313B	317F	BURL1	05/01/88	05/31/88	1	1.482
8800185	BR6991	F191	313B	317F	BUZM3	05/01/88	05/31/88	1	1.478
8800185	BR6992	F191	313B	317F	CAR03	05/01/88	05/31/88	1	1.486
8800185	BR6993	F191	313B	317F	CHLV2	05/01/88	05/31/88	1	2.852
8800185	BR6994	F191	313B	317F	CLKN7	05/01/88	05/31/88	1	1.478
8800185	BR6995	F191	313B	317F	CSBF1	05/01/88	05/31/88	1	1.484
8800185	BR6996	F191	313B	317F	DBLN6	05/01/88	05/31/88	1	1.406
8800185	BR6997	F191	313B	317F	DESW1	05/01/88	05/31/88	1	1.482
8800185	BR6998	F191	313B	317F	DISW3	05/01/88	05/31/88	1	1.484
8800185	BR6999	F191	313B	317F	DP1A1	05/01/88	05/31/88	1	1.438
8800185	BR7000	F191	313B	317F	DSL7	05/01/88	05/31/88	1	1.474
8800185	BR7001	F191	313B	317F	FBIS1	05/01/88	05/31/88	1	1.484
8800185	BR7002	F191	313B	317F	FFIA2	05/01/88	05/31/88	1	1.482
8800185	BR7003	F191	313B	317F	FPSN7	05/01/88	05/31/88	1	1.478
8800185	BR7004	F191	313B	317F	GDIL1	05/01/88	05/31/88	1	1.484
8800185	BR7005	F191	313B	317F	GLLN6	05/01/88	05/31/88	1	1.404
8800185	BR7006	F191	313B	317F	IOSN3	05/01/88	05/31/88	1	1.478
8800185	BR7007	F191	313B	317F	LKWF1	05/01/88	05/31/88	1	1.484
8800185	BR7008	F191	313B	317F	MDRM1	05/01/88	05/31/88	1	1.486
8800185	BR7009	F191	313B	317F	MISM1	05/01/88	05/31/88	1	1.486
8800185	BR7010	F191	313B	317F	MLRF1	05/01/88	05/31/88	1	1.484
8800185	BR7011	F191	313B	317F	MPCL1	05/01/88	05/31/88	1	7.206
8800185	BR7012	F191	313B	317F	NWPO3	05/01/88	05/31/88	1	1.486
8800185	BR7013	F191	313B	317F	PILM4	05/01/88	05/31/88	1	1.486
8800185	BR7014	F191	313B	317F	PTAC1	05/01/88	05/31/88	1	1.484
8800185	BR7015	F191	313B	317F	PTAT2	05/01/88	05/31/88	1	1.484
8800185	BR7016	F191	313B	317F	PTGC1	05/01/88	05/31/88	1	1.484
8800185	BR7017	F191	313B	317F	ROAM4	05/01/88	05/31/88	1	1.484
8800185	BR7018	F191	313B	317F	SAUF1	05/01/88	05/31/88	1	1.484
8800185	BR7019	F191	313B	317F	SBIO1	05/01/88	05/31/88	1	1.486
8800185	BR7020	F191	313B	317F	SGNW3	05/01/88	05/31/88	1	1.486
8800185	BR7021	F191	313B	317F	SISW1	05/01/88	05/31/88	1	1.480
8800185	BR7022	F191	313B	317F	SMKF1	05/01/88	05/31/88	1	1.446
8800185	BR7023	F191	313B	317F	SPGF1	05/01/88	05/31/88	1	1.450
8800185	BR7024	F191	313B	317F	SRST2	05/01/88	05/31/88	1	1.486
8800185	BR7025	F191	313B	317F	STDMA	05/01/88	05/31/88	1	1.484
8800185	BR7026	F191	313B	317F	SVLS1	05/01/88	05/31/88	1	1.484
8800185	BR7027	F191	313B	317F	TPLM2	05/01/88	05/31/88	1	1.460
8800185	BR7028	F191	313B	317F	TTIW1	05/01/88	05/31/88	1	1.482
8800185	BR7029	F191	313B	317F	VENF1	05/01/88	05/31/88	1	1.482
8800185	BR7030	F191	313B	317F	WPOW1	05/01/88	05/31/88	1	1.508

=====

Password:

accNo	flea	refNo	proj	inst	ship	startDate	cruise	catId
8800185	F291	BR6937	9999	313B	317F	1988/05/01	32302	179787
8800185	F291	BR6938	9999	313B	317F	1988/05/01	41002	179788
8800185	F291	BR6939	9999	313B	317F	1988/05/01	41008	179789
8800185	F291	BR6940	9999	313B	317F	1988/05/01	42001	179790
8800185	F291	BR6941	9999	313B	317F	1988/05/01	42002	179791
8800185	F291	BR6942	9999	313B	317F	1988/05/26	42003	179792
8800185	F291	BR6943	9999	313B	317F	1988/05/01	42007	179793
8800185	F291	BR6944	9999	313B	317F	1988/05/01	42015	179794
8800185	F291	BR6945	9999	313B	317F	1988/05/01	42016	179795
8800185	F291	BR6946	9999	313B	317F	1988/05/01	44004	179796
8800185	F291	BR6947	9999	313B	317F	1988/05/01	44007	179797
8800185	F291	BR6948	9999	313B	317F	1988/05/01	44008	179798
8800185	F291	BR6949	9999	313B	317F	1988/05/01	44009	179799
8800185	F291	BR6950	9999	313B	317F	1988/05/21	44011	179800
8800185	F291	BR6951	9999	313B	317F	1988/05/01	44012	179801
8800185	F291	BR6952	9999	313B	317F	1988/05/01	44013	179802
8800185	F291	BR6953	9999	313B	317F	1988/05/27	45001	179803
8800185	F291	BR6954	9999	313B	317F	1988/05/01	45002	179804
8800185	F291	BR6955	9999	313B	317F	1988/05/01	45003	179805
8800185	F291	BR6956	9999	313B	317F	1988/05/01	45004	179806
8800185	F291	BR6957	9999	313B	317F	1988/05/01	45005	179807
8800185	F291	BR6958	9999	313B	317F	1988/05/01	45006	179808
8800185	F291	BR6959	9999	313B	317F	1988/05/01	45007	179809
8800185	F291	BR6960	9999	313B	317F	1988/05/02	45008	179810
8800185	F291	BR6961	9999	313B	317F	1988/05/01	46001	179811
8800185	F291	BR6962	9999	313B	317F	1988/05/01	46002	179812
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8800185	F291	BR7027	9999	313B	317F	1988/05/01	TPLM2	179877
8800185	F291	BR7028	9999	313B	317F	1988/05/01	TTIW1	179878
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8800185	F291	BR6983	317F	1	7384	88/05/01	88/05/01
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