

Reference #

BR 5977-6000

ACCESSION NUMBER

8700279

F141

DATA DOCUMENTATION FORM

July 87

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 P. Ward-NOLAN
 NOAA/NATIONAL DATA BUOY CENTER
 NSTL Station, MS 39529

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

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

4. PLATFORM NAME(S)
 —

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

6. PLATFORM AND OPERATOR NATIONALITY(IES)
 Buoy USA

7. DATES
 FROM: MO, DAY, YR TO: MO, DAY, YR
 07/01/87 07/31/87

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

9. ARE DATA DECLARED NATIONAL PROGRAM (DNP)? (I.E., SHOULD THEY BE INCLUDED IN WORLD DATA CENTERS HOLDINGS FOR INTERNATIONAL EXCHANGE?)
 NO YES PART (SPECIFY BELOW)

10. PERSON TO WHOM INQUIRIES CONCERNING DATA SHOULD BE ADDRESSED WITH TELEPHONE NUMBER (AND ADDRESS IF OTHER THAN IN ITEM-1)
 Sallie P. NOLAN
 FTS-494-1721

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

Reference #

BR 6001-6030

ACCESSION NUMBER

8700279

F141

DATA DOCUMENTATION FORM

July 87

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 P. Ward-NOLAN NOAA/NATIONAL DATA BUOY CENTER NSTL Station, MS 39529			
2. EXPEDITION, PROJECT, OR PROGRAM DURING WHICH DATA WERE COLLECTED TOGA		3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT	
4. PLATFORM NAME(S) -	5. PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.) Buoy	6. PLATFORM AND OPERATOR NATIONALITY(IES) PLATFORM OPERATOR Buoy USA	7. DATES FROM: MO/PAY/YR TO: MO/DAY/YR 07/01/87 07/31/87
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 6031-6070

ACCESSION NUMBER

8700279

DATA DOCUMENTATION FORM

July 87

NOAA FORM 24-13 (4-77)

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

FORM APPROVED O.M.B. No. 41-R2631 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. Ward-NOLAN
 NOAA/NATIONAL DATA BUOY CENTER
 NSTL Station, MS 39529

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

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

4. PLATFORM NAME(S)
 -

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

6. PLATFORM AND OPERATOR NATIONALITY(IES)
 PLATFORM OPERATOR
 Buoy USA

7. DATES
 FROM: MO, DAY, YR TO: MO, DAY, YR
 07/01/87 07/31/87

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

9. ARE DATA DECLARED NATIONAL PROGRAM (DNP)?
 (I.E., SHOULD THEY BE INCLUDED IN WORLD DATA CENTERS HOLDINGS FOR INTERNATIONAL EXCHANGE?)
 NO YES PART (SPECIFY BELOW)

10. PERSON TO WHOM INQUIRIES CONCERNING DATA SHOULD BE ADDRESSED WITH TELEPHONE NUMBER (AND ADDRESS IF OTHER THAN IN ITEM-1)
 Sallie P. NOLAN
 FTS-494-1721

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

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

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

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

2. GIVE BRIEF DESCRIPTION OF FILE ORGANIZATION

[Empty box for file organization description]

3. ATTRIBUTES AS EXPRESSED IN PL-1 ALGOL COBOL
 FORTRAN _____ LANGUAGE

4. RESPONSIBLE COMPUTER SPECIALIST:
 NAME AND PHONE NUMBER _____
 ADDRESS _____

COMPLETE THIS SECTION IF DATA ARE ON MAGNETIC TAPE

<p>5. RECORDING MODE</p> <p><input type="checkbox"/> BCD <input type="checkbox"/> BINARY</p> <p><input checked="" type="checkbox"/> ASCII <input type="checkbox"/> EBCDIC</p> <p><input type="checkbox"/> _____</p>	<p>9. LENGTH OF INTER-RECORD GAP (IF KNOWN) <input checked="" type="checkbox"/> 3/8 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, V. LINE NUMBER)</p>
<p>8. DENSITY</p> <p><input type="checkbox"/> 200 BPI <input checked="" type="checkbox"/> 1600 BPI</p> <p><input type="checkbox"/> 556 BPI _____</p> <p><input type="checkbox"/> 800 BPI</p> <p><input type="checkbox"/> _____</p>	<p>12. PHYSICAL BLOCK LENGTH IN BYTES</p> <p>4080</p> <p>13. LENGTH OF BYTES IN BITS</p> <p>8</p>

RECORD FORMAT DESCRIPTION

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

14. FIELD NAME	15. POSITION FROM-1 MEASURED IN (e.g., Mo., bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
DESCRIPTIVE HEADER RECORD					
FILE TYPE	1	3		A3	"191" (constant)
FILE DATE	4	6		312	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		312	Year, Month, Day (GMT)
OBSERVED TIME	23	4		212	Hours, Minutes (GMT)
LATITUDE	27	6		312	Degrees, Minutes, Seconds
LAT. HEMISPHERE	33	1		A1	"N" or "S" Hemisphere
LONGITUDE	34	7		13, 212	Degrees, Minutes, Seconds
LON. HEMISPHERE	41	1		A1	"E" or "W" Hemisphere
BOTTOM DEPTH	42	5		I5	Meters to tenths
MAGNETIC VARIATION	47	4		I4	Whole degrees from true north (signed value)
BUOY HEADING*	51	3		I3	Whole degrees from true north
WAVE SAMPLING RATE*	54	4		I4	Original measurements per minute to tenths
WAVE SAMPLING DURATION*	58	4		I4	Minutes to hundredths
WAVE TOTAL INTERVALS*	62	3		I3	Number of frequency intervals
CHIEF SCIENTIST	65	20		A20	(optional)
INSTITUTION	85	20		A20	Data source
WIND SAMPLING DURATION	105	3		I3	Minutes to tenths
COMMENTS *for buoy data only	108	13		A13	RECORD LENGTH IS 120
ENVIRONMENTAL DATA RECORD					
FILE TYPE	1	3		A3	"191" (constant)
FILE DATE	4	6		312	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		312	Year, Month, Day (GMT)
OBSERVED TIME	23	4		212	Hours, Minutes (GMT)
ALTITUDE	27	3		I3	Meteorology alt., meters to tenths
AIR TEMP	30	4		I4	Temperature, Celsius to tenths
DEW POINT	34	4		I4	Temperature, Celsius to tenths
BAROMETER	38	5		I5	Millibars to tenths (reduced to sea level)
WIND SPEED	43	4		I4	Meters/sec. to hundredths
WIND DIRECTION	47	4		I4	From true north, degrees to tenths
WEATHER	51	1		I1	Current weather (WMO Code 4501)
VISIBILITY	52	3.		I3	Nautical miles, to tenths

14. FIELD NAME	15. POSITION FROM-1 MEASURED IN (e.g. Mts, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBERS	UNITS		
PRECIPITATION	55	4		14	Accumulation in millimeters
SOLAR RADIATION	59	3		13	Langleys/minute to hundredths - wave length less than 3.6
SOLAR RADIATION	62	3		13	Langleys/minute to hundredths wave length from 4.0 to 50 microns
SIGNIFICANT WAVE HEIGHT	65	3		13	Meters to tenths, corrected for low frequency noise, etc.
AVERAGE WAVE PERIOD	68	3		13	Seconds to tenths
DOMINANT WAVE DIRECTION	71	3		13	Direction of predominant waves in whole degrees from true N
HIGHEST CREST	74	3		13	Meters to tenths, from reference level
DEEPEST TROUGH	77	3		13	Meters to tenths, from reference level
SEA SURFACE TEMPERATURE	80	4		14	Temperature Celsius to hundredths
SEA SURFACE SALINITY	84	5		15	Parts per thousand to thousandths
CONDUCTIVITY	89	5		15	Millimhos/cm to thousandths
DOMINANT WAVE PERIOD	94	3		13	Seconds to tenths
MINIMUM WAVE HEIGHT	97	3		13	Meters to tenths
MAXIMUM WAVE STEEPNESS	100	3		13	To be defined
WIND GUST	103	4		14	Meters/sec. to hundredths
WIND GUST (avg. pd.)	107	2		12	Seconds
AVERAGING PERIOD					
WIND GUST	109	4		14	Meters/sec. to hundredths
WIND GUST	113	2		12	Seconds
WIND SPEED (58 min. average)	115	3		13	Meters/sec. to tenths whole degrees
WIND DIRECTION (58 min. average)	118	3		13	Whole degrees
WAVE SPECTRA DATA RECORD					
FILE TYPE	1	3		A3	"191" (constant)
FILE DATE	4	6		312	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		312	Year, Month, Day (GMT)
OBSERVED TIME	23	4		212	Hours, Minutes (GMT)
INTERVALS PER DIRECTION	27	3		13	Zero for non-directional spectra, or total number of frequencies in this direction
DIRECTION	30	4		14	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. 010, 0120)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
WAVE SPECTRA DATA RECORD (cont'd)					
COUNT	34	1		11	Number of frequencies on this record
DATA	35	70		5(214,16)	Up to 5 Frequency, Resolution, Density fields. Null fields blank
Frequency	35, 49, 63 77, 91	4		14	Center frequency of interval in Hertz to thousandths
Resolution	39, 53, 67 81, 95	4		14	Resolution of interval in Hertz to ten-thousandths
Density	43, 57, 71 85, 99	6		16	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		312	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		312	Year, Month, Day (GMT)
OBSERVED TIME	23	4		212	Hours, Minutes (GMT)
DATA	27	90		10(15,14)	Up to 10 Depth and temperature fields
Depth	27, 36, 45 54, 63, 72 81, 90, 99 108	5		15	Obs. level, meters to tenths
Temperature	32, 41, 50 59, 68, 77 86, 95, 104 113	4		14	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		312	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		312	Year, Month, Day (GMT)
OBSERVED TIME	23	4		212	Hours, Minutes (GMT)
DATA	27	90		3(15,15,15 15,15,15)	Up to 3 Depth, U Component, V Component, Pressure, Conductivity, Salinity fields
Depth	27, 57, 87	5		15	Obs. Level, meters to tenths

16. FIELD NAME	15. POSITION FROM-1 MEASURED IN (e.g. 10m, 07m)	18. LENGTH		17. ATTRIBUTES	19. USE AND MEANING
		NUMBER	UNITS		
SURFACE DATA RECORD (cont'd)					
U Component	32, 62, 92	3		I5	East vector in cm/sec. to tenths True north vector in cm/sec. to tenths Kg./cm ² to hundredths Milliomhos/cm to thousandths Parts per 1000 to thousandths Fill the fixed length record
V Component	37, 67, 97	3		I5	
Pressure -	42, 72, 102	3		I5	
Conductivity	47, 77, 107	3		I5	
Salinity	52, 82, 112	3		I5	
BLANKS	117	4		4X	

14. FIELD NAME	15. POSITION FROM=1 MEASURED IN (e.g. Dm, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
CO AND QUAD SPECTRA FOR DIRECTIONAL WAVES					
FILE TYPE	1	3	Bytes	13	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	312	Year, month, day (GMT)
OBSERVED TIME	23	4	Bytes	212	Hours, minutes (GMT)
FREQUENCY	27	4	Bytes	14	Center frequency of interval in Hz to .001
SPECTRAL RESOLUTION	31	5	Bytes	15	Spectral resolution of this frequency band in Hz to ten thousandths
CO-SPECTRA C ₁₁	36	6	Bytes	Signed Integers 16	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	12	Where subscripts are defined as follows: 1. Heave 2. E-W Slope 3. N-S Slope If the exponent is less than -5 the exponent and its associated spectra should be zero
CO-SPECTRA C ₂₂	44	6	Bytes	16	
EXPONENT	50	2	Bytes	12	
CO-SPECTRA C ₃₃	52	6	Bytes	16	
EXPONENT	58	2	Bytes	12	
CO-SPECTRA C ₁₂	60	6	Bytes	16	
EXPONENT	66	2	Bytes	12	
QUAD-SPECTRA Q ₁₂	68	6	Bytes	16	
EXPONENT	74	2	Bytes	12	
CO-SPECTRA C ₁₃	76	6	Bytes	16	
EXPONENT	82	2	Bytes	12	
QUAD-SPECTRA Q ₁₃	84	6	Bytes	16	
EXPONENT	90	2	Bytes	12	
CO-SPECTRA C ₂₃	92	6	Bytes	16	
EXPONENT	98	2	Bytes	12	
QUAD-SPECTRA Q ₂₃	100	6	Bytes	16	
EXPONENT	106	2	Bytes	12	
C ₂₂ - C ₃₃	108	6	Bytes	16	
EXPONENT	114	2	Bytes	12	
BLANKS	116	5	Bytes	5x	

14. FIELD NAME	15. POSITION FROM-1 MEASURED IN (e.g. 10m, 100m)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMSCR.	UNITS		
ANGULAR COEFFICIENTS FOR DIRECTIONAL WAVES					
FILE TYPE	1	3	Bytes	13	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	312	Year, month, day (GMT)
OBSERVED TIME	23	4	Bytes	212	Hour, minutes (GMT)
FREQUENCY	27	4	Bytes	14	Center frequency of interval Hz to .001
SPECTRAL RESOLUTION	31	5	Bytes	15	Spectral resolution of this frequency band in Hz to ten thousandths
ANGULAR FOURIER	36	6	Bytes	signed integers 16	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	12	
ANGULAR FOURIER COEFFICIENT	44	6	Bytes	16	
EXPONENT	50	2	Bytes	12	
ANGULAR FOURIER COEFFICIENT	52	6	Bytes	16	
EXPONENT	58	2	Bytes	12	
ANGULAR FOURIER COEFFICIENT	60	6	Bytes	16	
EXPONENT	66	2	Bytes	12	
ANGULAR FOURIER COEFFICIENT	68	6	Bytes	16	
EXPONENT	74	2	Bytes	12	
ANGULAR FOURIER COEFFICIENT	76	6	Bytes	16	
EXPONENT	82	2	Bytes	12	
ANGULAR FOURIER COEFFICIENT	84	6	Bytes	16	
EXPONENT	90	2	Bytes	12	
ANGULAR FOURIER COEFFICIENT	92	6	Bytes	16	
EXPONENT	98	2	Bytes	12	
ANGULAR FOURIER COEFFICIENT	100	6	Bytes	16	
EXPONENT	106	2	Bytes	12	
MEAN WAVE DIRECTION	108	3	Bytes	13	Mean wave direction given by $\arctan b_1/a_1$ in whole degrees from true north(opt. entry)
FLANKS	111	10	Bytes	10x	Flanks

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
CLIS (see below)	XXXXX - 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
CLIS (see below)	XXXXX - 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
CLIS (see below)	XXXXX - 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 . $CLIS(M^2/HZ) = (C22+C33)/(K*K)$ in which K , the propagation constant, is the solution to $W*W = G*K*TANH(K*D)$, in which $W = 2*PI*F$, $G = 9.806 M/(SEC*SEC)$, and D is mean water depth in meters.

#268 / 9-1-87



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

August 26, 1987

F360
DB3:87-0427
SPN:njm

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 July 1987 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 07018700-07318723
41002 07018700-07318723
41006 07018700-07318723
42001 07018700-07318723
42002 07018700-07318723
42003 07018700-07318723
42007 07018700-07318723
42015 07018700-07318723
44004 07018700-07088707 07278719-07318723
44005 07018700-07318723
44007 07018700-07318723
44008 07018700-07318723
44009 07018700-07318723
44011 07018700-07318723
44012 07018700-07318723
44013 07018700-07318723
45001 07018700-07318723
45002 07018700-07318723
45003 07018700-07318723
45004 07018700-07318723
45005 07018700-07318723
45006 07018700-07318723
45007 07018700-07318723
45008 07018700-07318723

Tape 2: 46001 07018700-07318723
46002 07018700-07318723
46003 07018700-07318723
46004 07018700-07318723
46005 07218701-07318723
46006 07018700-07318723
46010 07018700-07318723
46011 07018700-07318723
46012 07018700-07318723
46013 07018700-07318723
46014 07018700-07318723
46016 07018700-07318723
46017 07018700-07318723
46022 07018700-07318723
46023 07018700-07318723
46025 07018700-07318723
46026 07018700-07138716
46027 07018700-07318723
46028 07018700-07318723
46036 07018700-07318723
46039 07018700-07318723
46040 07018700-07318723
46041 07018700-07318723
46042 07018700-07318723

46043 07018700-07318723
51001 07018700-07318723
51002 07018700-07318723
51003 07018700-07318723
51004 07018700-07318723
51005 07018700-07318723

Tape 3 : ALRF1 07018700-07318723
ALSN6 07018700-07318723
BURL1 07018700-07318723
BUZM3 07018700-07318723
CARO3 07018700-07318723
CHLY2 07018700-07318723
CLKN7 07018700-07318723
CSBF1 07098720-07318723
DBLN6 07018700-07318723
DESW1 07018700-07318723
DISW3 07018700-07318723
DPJA1 07018700-07318723
DSLN7 07018700-07318723
FBIS1 07018700-07318723
FFIA2 07018700-07318723
FPSN7 07018700-07318723
GDIL1 07018700-07318723
GLLN6 07018700-07318723
IOSN3 07018700-07318723
LKWF1 07018700-07318723
MDRM1 07018700-07318723
MISM1 07018700-07318723
NWPO3 07018700-07318723
PILM4 07018700-07318723
PTAC1 07018700-07318723
PTAT2 07018700-07318723
PTGC1 07018700-07318723
ROAM4 07018700-07318723
SAUF1 07018700-07318723
SBIO1 07018700-07318723
SGNW3 07018700-07318723
SISW1 07018700-07318723
SPGF1 07018700-07318723
SRST2 07018700-07318723
STDM4 07018700-07318723
SVLS1 07018700-07298702
TPLM2 07018700-07318723
TTIW1 07018700-07318723
VENF1 07018700-07318723
WPOW1 07018700-07318723

ACCESSION NO. 8700279

FILETYPE F191

TRACK NO. BR5977-6000

PROJECT IDENTIFICATION TCCA

STEP	DATE	INIT.	TAPE OR DISK DSN	NO. FILES	LRECL	BLK SIZE	NO. RECOR.
ORIG. TAPE	9-24-87	<u>DB</u>	A00566	1	120	4050	
DUPLICATE TAPE	9-24-87	<u>DB</u>	W14626*	1	120	4050	162476
REFORMATTED TAPE							
REFORMATTED DISK							
FIRST MULCHEK	10/19/87	<u>DB</u>	BR5977.	1	120		
FINAL MULCHEK							
MPD75 OR F022							
DATA SET FINALIZED	10/21/87	<u>DB</u>	FINAL TAPE L25585	1	120		162476

* 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 8700279

FILETYPE F191

TRACK NO BR6001-6030

PROJECT IDENTIFICATION TC6A

STEP	DATE	INIT.	TAPE OR DISK DSN	NO. FILES	RECL	BLK SIZE	NO. RECOR
ORIG. TAPE	9-24-87	(DS)	A00567	1	120	4080	
DUPLICATE TAPE	9-24-87	(DS)	W00357*	1	120	4080	
REFORMATTED TAPE							
REFORMATTED DISK							
FIRST MULCHEK	10/19/87	CPT	BR6001.	1	120		203,950
FINAL MULCHEK							
MPD75 OR F022							
DATA SET FINALIZED	10/21/87	CPT	FINAL TAPE L2-5585	1	120		203,950

* Tape with non-label

ERRORS REPORTED TO PRINCIPAL INVESTIGATOR:

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

COMMENTS (TRACKS DELETED, FIELDS DELETED, ETC.)

ACCESSION NO. 8700279

FILETYPE F191

TRACK NO. BR6031-6070

PROJECT IDENTIFICATION TOLGA

STEP	DATE	INIT.	TAPE OR DISK DSN	NO. FILES	LRECL	BLK SIZE	NO. RECOR.
ORIG. TAPE	9-24-87	<i>(initials)</i>	A00568	1	120	4080	
DUPLICATE TAPE	9-24-87	<i>(initials)</i>	W00776*	1	120	4080	
REFORMATTED TAPE							
REFORMATTED DISK							
FIRST MULCHEK	10/19/87	<i>CAF</i>	BR3066	1	120		57908
FINAL MULCHEK							
MPD75 OR F022							
DATA SET FINALIZED	10/21/87	<i>CAF</i>	TAPE L25585	1	120		57908

* Tape is non-label

ERRORS REPORTED TO PRINCIPAL INVESTIGATOR: *NONE*

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

NONE

COMMENTS (TRACKS DELETED, FIELDS DELETED, ETC.)

FUNCTION TO BE USED AND FUNCTION TO BE PERFORMED

Scan

INPUT MEDIUM PER CARD DISK TAPE SKETTE OTHER(SPECIFY)	OUTPUT MEDIUM CARD DISK PRINT TAPE PLOT DISKETTE OTHER(SPECIFY)
--	--

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	#
504890		9	1600	odd	NL	FB	170	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	#
SECTOR SIZE	EXCHANGE TYPE	CODE: ASCII EBCDIC BCD SDF OTHER(SPECIFY)				DATA SET NAME			

ADDITIONAL INSTRUCTIONS

ESTIMATED
EXECUTION
TIME

USE ONLY

DATE JOB COMPLETED	START TIME	END TIME	PRIORITY	DEVICES USED, NUMBER OF TAPE MOUNTS, LINES PRI DISKETTES USED, CARDS PUNCHED, CARDS KEYVERIF
09/02/87	08:25	08:30	C	COMPLETED BY J.S.

187098/45

July 87
1803
F191

PRINT TO BE USED AND FUNCTION TO BE PERFORMED

Plan

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

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	
JUL 4871		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	
SECTOR SIZE		EXCHANGE TYPE		CODE: ASCII EBCDIC BCD SDF OTHER(SPECIFY)			DATA SET NAME		

ADDITIONAL INSTRUCTIONS

ESTIMATED
EXECUTION
TIME

USE ONLY

DATE JOB COMPLETED	START TIME	END TIME	PRIORITY	DEVICES USED, NUMBER OF TAPE MOUNTS, LINES PRI DISKETTES-USED, CARDS PUNCHED, CARDS KEYVERIF
09/02/87	08:35	08:40	C	COMPLETED BY JS.

July 87
203
F197

Copy to 'W' tape and scan output

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

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	
400566		9	1600	odd	NL		120	4080	1		
SECTOR SIZE						EXCHANGE TYPE		CODE: ASCII EBCDIC BCD SDF OTHER(SPECIFY)		DATA SET NAME	
W14646		9	1600	odd	NL		120	4080	1		
SECTOR SIZE						EXCHANGE TYPE		CODE: ASCII EBCDIC BCD SDF OTHER(SPECIFY)		DATA SET NAME	

ADDITIONAL INSTRUCTIONS

Procedure: B.R. BUOY LF

ESTIMATED EXECUTION TIME

Mitch 5977. Dat

USE ONLY

DATE JOB COMPLETED	START TIME	END TIME	PRIORITY	DEVICES USED, NUMBER OF TAPE MOUNTS, LINES PRI DISKETTES USED, CARDS PUNCHED, CARDS KEYVERIFI
09/03/87	08:10	10:00	C	COMPLETED BY J.S.

Send to Asheville

July 87
1073
F191

17-3-87

17

PRINT TO BE USED AND FUNCTION TO BE PERFORMED

Log to 1/4" tape and scan output

INPUT MEDIUM PER CARD DISK <u>TAPE</u> KETTE OTHER(SPECIFY)	OUTPUT MEDIUM CARD DISK <u>PRINT</u> <u>TAPE</u> PLOT DISKETTE OTHER(SPECIFY)
---	---

DISKETTE INFORMATION

TAPE #/ DISKETTE	SLOT #	TRK	DENSITY	PARITY	LABEL TYPE	RECORD TYPE	RECORD LENGTH	MAX. BLOCK SIZE	#
ACC567		9	1600	odd	NL	FB	120	4080	1
SECTOR SIZE	EXCHANGE TYPE	CODE: ASCII EBCDIC BCD SDF OTHER(SPECIFY)				DATA SET NAME			
W00357		9	1600	odd	NL	FB	120	4080	1
SECTOR SIZE	EXCHANGE TYPE	CODE: ASCII EBCDIC BCD SDF OTHER(SPECIFY)				DATA SET NAME			

AL INSTRUCTIONS Procedure BRBU0415 Nitch 0001. Dat	ESTIMATED EXECUTION TIME
--	--------------------------------

DATE JOB COMPLETED	START TIME	END TIME	PRIORITY	DEVICES USED, NUMBER OF TAPE MOUNTS, LINES PRI DISKETTES USED, CARDS PUNCHED, CARDS KEYVERIF
09/08/87	08:00	14:55	C	COMPLETED BY J.S.

send to Asheville

F191
July 87
2003

Green, Vish

9-16-87 ASAP 27

PRINT TO BE USED AND FUNCTION TO BE PERFORMED

Plan

INPUT MEDIUM TAPE <input checked="" type="checkbox"/> <u>TAPE</u> PAPER CARD DISK <input type="checkbox"/> SKETTE OTHER(SPECIFY)	OUTPUT MEDIUM CARD DISK <input type="checkbox"/> <u>PRINT</u> TAPE <input type="checkbox"/> PLOT <input type="checkbox"/> DISKETTE OTHER(SPECIFY)
---	---

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	
A00568		9	1600	odd	NL	FB	120	4080	
SECTOR SIZE	EXCHANGE TYPE	CODE: <u>ASCII</u> EBCDIC BCD SDF OTHER(SPECIFY)				DATA SET NAME			
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			

AL INSTRUCTIONS

ESTIMATED
EXECUTION
TIME

USE ONLY

DATE JOB COMPLETED	START TIME	END TIME	PRIORITY	DEVICES USED, NUMBER OF TAPE MOUNTS, LINES PRI DISKETTES-USED, CARDS PUNCHED, CARDS KEYVERIF
9/17/87	07:55	08:00	C	COMPLETED BY J.S.

July 87

3:73

8700279

TO: E/OC12 - C. Noe

E/OC11 - P. Hadsell

FROM: E/OC13 - A. Picciolo FJM

DATE: September 29, 1987

SUBJECT: Data Transfer

The following listed data sets have been transferred as indicated:

DATA INVENTORY AND ARCHIVES BRANCH (E/OC11)

WIND/WAVE SPECTRA (F191)

Acc: 8700039 Ref: BR3180 - 3255 76 stations 353,260 records

MARCH 1985 - replacement

Acc: 8700279 Ref: BR5977 - 6070 94 stations 424,320 records
JULY 1987

DRIFTING BUOYS (F156)

Acc: 8700276 Ref: TT9981 - 99; TV0001 - 0045 64 stations
13,056 records

JULY 1987 - TOGA

cc: Division Director

ACCESS NUMBER	REF NUMBER	FILE TYPE	PROJ CODE	INST	PLAT	CRUISE NO	CRUISE START	CRUISE END	NUM STA	NUM REC
8700279	BR5977	F191		313B	317F	32302	07/01/87	07/31/87	1	7,358
8700279	BR5978	F191		313B	317F	41002	07/01/87	07/31/87	1	8,906
8700279	BR5979	F191		313B	317F	41006	07/01/87	07/31/87	1	8,868
8700279	BR5980	F191		313B	317F	42001	07/01/87	07/31/87	1	2,480
8700279	BR5981	F191		313B	317F	42002	07/01/87	07/31/87	1	7,420
8700279	BR5982	F191		313B	317F	42003	07/01/87	07/31/87	1	7,410
8700279	BR5983	F191		313B	317F	42007	07/01/87	07/31/87	1	7,408
8700279	BR5984	F191		313B	317F	42015	07/01/87	07/31/87	1	1,154
8700279	BR5985	F191		313B	317F	44004	07/01/87	07/31/87	1	3,244
8700279	BR5986	F191		313B	317F	44005	07/01/87	07/31/87	1	8,928
8700279	BR5987	F191		313B	317F	44007	07/01/87	07/31/87	1	7,422
8700279	BR5988	F191		313B	317F	44008	07/01/87	07/31/87	1	7,386
8700279	BR5989	F191		313B	317F	44009	07/01/87	07/31/87	1	7,422
8700279	BR5990	F191		313B	317F	44011	07/01/87	07/31/87	1	5,876
8700279	BR5991	F191		313B	317F	44012	07/01/87	07/31/87	1	6,974
8700279	BR5992	F191		313B	317F	44013	07/01/87	07/31/87	1	7,424
8700279	BR5993	F191		313B	317F	45001	07/01/87	07/31/87	1	7,422
8700279	BR5994	F191		313B	317F	45002	07/01/87	07/31/87	1	7,094
8700279	BR5995	F191		313B	317F	45003	07/01/87	07/31/87	1	6,956
8700279	BR5996	F191		313B	317F	45004	07/01/87	07/31/87	1	7,402
8700279	BR5997	F191		313B	317F	45005	07/01/87	07/31/87	1	7,406
8700279	BR5998	F191		313B	317F	45006	07/01/87	07/31/87	1	7,184
8700279	BR5999	F191		313B	317F	45007	07/01/87	07/31/87	1	7,424
8700279	BR6000	F191		313B	317F	45008	07/01/87	07/31/87	1	5,908
8700279	BR6001	F191		313B	317F	46001	07/01/87	07/31/87	1	8,904
8700279	BR6002	F191		313B	317F	46002	07/01/87	07/31/87	1	8,908
8700279	BR6003	F191		313B	317F	46003	07/01/87	07/31/87	1	8,884
8700279	BR6004	F191		313B	317F	46004	07/01/87	07/31/87	1	8,904
8700279	BR6005	F191		313B	317F	46005	07/21/87	07/31/87	1	3,100
8700279	BR6006	F191		313B	317F	46006	07/01/87	07/31/87	1	7,414
8700279	BR6007	F191		313B	317F	46010	07/01/87	07/31/87	1	7,372
8700279	BR6008	F191		313B	317F	46011	07/01/87	07/31/87	1	7,422
8700279	BR6009	F191		313B	317F	46012	07/01/87	07/31/87	1	7,368
8700279	BR6010	F191		313B	317F	46013	07/01/87	07/31/87	1	7,388
8700279	BR6011	F191		313B	317F	46014	07/01/87	07/31/87	1	7,380
8700279	BR6012	F191		313B	317F	46016	07/01/87	07/31/87	1	496
8700279	BR6013	F191		313B	317F	46017	07/01/87	07/31/87	1	494
8700279	BR6014	F191		313B	317F	46022	07/01/87	07/31/87	1	8,896
8700279	BR6015	F191		313B	317F	46023	07/01/87	07/31/87	1	7,440
8700279	BR6016	F191		313B	317F	46025	07/01/87	07/31/87	1	7,414
8700279	BR6017	F191		313B	317F	46026	07/01/87	07/13/87	1	3,010
8700279	BR6018	F191		313B	317F	46027	07/01/87	07/31/87	1	7,396
8700279	BR6019	F191		313B	317F	46028	07/01/87	07/31/87	1	8,862
8700279	BR6020	F191		313B	317F	46036	07/01/87	07/31/87	1	8,884
8700279	BR6021	F191		313B	317F	46039	07/01/87	07/31/87	1	7,186
8700279	BR6022	F191		313B	317F	46040	07/01/87	07/31/87	1	7,440
8700279	BR6023	F191		313B	317F	46041	07/01/87	07/31/87	1	7,412
8700279	BR6024	F191		313B	317F	46042	07/01/87	07/31/87	1	1,456
8700279	BR6025	F191		313B	317F	46043	07/01/87	07/31/87	1	1,486
8700279	BR6026	F191		313B	317F	51001	07/01/87	07/31/87	1	8,908
8700279	BR6027	F191		313B	317F	51002	07/01/87	07/31/87	1	8,874

0279	BR6028	F191	313B	317F	51003	07/01/87	07/31/87	1	8,908
0279	BR6029	F191	313B	317F	51004	07/01/87	07/31/87	1	8,904
8700279	BR6030	F191	313B	317F	51005	07/01/87	07/31/87	1	7,440
8700279	BR6031	F191	313B	317F	ALRF1	07/01/87	07/31/87	1	1,394
8700279	BR6032	F191	313B	317F	ALSN6	07/01/87	07/31/87	1	1,488
8700279	BR6033	F191	313B	317F	BURL1	07/01/87	07/31/87	1	1,486
8700279	BR6034	F191	313B	317F	BUZM3	07/01/87	07/31/87	1	1,482
8700279	BR6035	F191	313B	317F	CAR03	07/01/87	07/31/87	1	1,488
8700279	BR6036	F191	313B	317F	CHLV2	07/01/87	07/31/87	1	1,488
8700279	BR6037	F191	313B	317F	CLKN7	07/01/87	07/31/87	1	1,452
8700279	BR6038	F191	313B	317F	CSBF1	07/09/87	07/31/87	1	1,064
8700279	BR6039	F191	313B	317F	DBLN6	07/01/87	07/31/87	1	1,488
8700279	BR6040	F191	313B	317F	DESW1	07/01/87	07/31/87	1	1,486
8700279	BR6041	F191	313B	317F	DISW3	07/01/87	07/31/87	1	1,486
8700279	BR6042	F191	313B	317F	DPIA1	07/01/87	07/31/87	1	1,486
8700279	BR6043	F191	313B	317F	DSLN7	07/01/87	07/31/87	1	1,486
8700279	BR6044	F191	313B	317F	FBIS1	07/01/87	07/31/87	1	1,488
8700279	BR6045	F191	313B	317F	FFIA2	07/01/87	07/31/87	1	808
8700279	BR6046	F191	313B	317F	FPSN7	07/01/87	07/31/87	1	1,488
8700279	BR6047	F191	313B	317F	GDIL1	07/01/87	07/31/87	1	1,484
8700279	BR6048	F191	313B	317F	GLLN6	07/01/87	07/31/87	1	1,432
8700279	BR6049	F191	313B	317F	IOSN3	07/01/87	07/31/87	1	1,486
8700279	BR6050	F191	313B	317F	LKWF1	07/01/87	07/31/87	1	1,488
8700279	BR6051	F191	313B	317F	MDRM1	07/01/87	07/31/87	1	1,488
8700279	BR6052	F191	313B	317F	MISM1	07/01/87	07/31/87	1	1,486
0279	BR6053	F191	313B	317F	NWPO3	07/01/87	07/31/87	1	1,488
0279	BR6054	F191	313B	317F	PILM4	07/01/87	07/31/87	1	1,488
8700279	BR6055	F191	313B	317F	PTAC1	07/01/87	07/31/87	1	1,486
8700279	BR6056	F191	313B	317F	PTAT2	07/01/87	07/31/87	1	1,488
8700279	BR6057	F191	313B	317F	PTGC1	07/01/87	07/31/87	1	1,488
8700279	BR6058	F191	313B	317F	ROAM4	07/01/87	07/31/87	1	1,488
8700279	BR6059	F191	313B	317F	SAUF1	07/01/87	07/31/87	1	1,488
8700279	BR6060	F191	313B	317F	SBID1	07/01/87	07/31/87	1	1,406
8700279	BR6061	F191	313B	317F	SGNW3	07/01/87	07/31/87	1	1,488
8700279	BR6062	F191	313B	317F	SISW1	07/01/87	07/31/87	1	1,432
8700279	BR6063	F191	313B	317F	SPGF1	07/01/87	07/31/87	1	1,480
8700279	BR6064	F191	313B	317F	SRST2	07/01/87	07/31/87	1	1,484
8700279	BR6065	F191	313B	317F	STDMA	07/01/87	07/31/87	1	1,488
8700279	BR6066	F191	313B	317F	SVLS1	07/01/87	07/29/87	1	1,348
8700279	BR6067	F191	313B	317F	TPLM2	07/01/87	07/31/87	1	1,486
8700279	BR6068	F191	313B	317F	TTIW1	07/01/87	07/31/87	1	1,488
8700279	BR6069	F191	313B	317F	VENF1	07/01/87	07/31/87	1	1,466
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8700279	F291	BR5980	9999	313B	317F	1987/07/01	42001	172779
8700279	F291	BR5981	9999	313B	317F	1987/07/01	42002	172780
8700279	F291	BR5982	9999	313B	317F	1987/07/01	42003	172781
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8700279	F291	BR5984	9999	313B	317F	1987/07/01	42015	172783
8700279	F291	BR5985	9999	313B	317F	1987/07/01	44004	172784
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8700279	F291	BR5992	9999	313B	317F	1987/07/01	44013	172791
8700279	F291	BR5993	9999	313B	317F	1987/07/01	45001	172792
8700279	F291	BR5994	9999	313B	317F	1987/07/01	45002	172793
8700279	F291	BR5995	9999	313B	317F	1987/07/01	45003	172794
8700279	F291	BR5996	9999	313B	317F	1987/07/01	45004	172795
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8700279	F291	BR6005	9999	313B	317F	1987/07/21	46005	172804
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8700279	F291	BR6008	9999	313B	317F	1987/07/01	46011	172807
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8700279	F291	BR6040	9999	313B	317F	1987/07/01	DESW1	172839
8700279	F291	BR6041	9999	313B	317F	1987/07/01	DISW3	172840
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8700279	F291	BR6047	9999	313B	317F	1987/07/01	GDIL1	172846
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8700279	F291	BR6055	9999	313B	317F	1987/07/01	PTAC1	172854
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8700279	F291	BR6058	9999	313B	317F	1987/07/01	ROAM4	172857
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8700279	F291	BR6061	9999	313B	317F	1987/07/01	SGNW3	172860
8700279	F291	BR6062	9999	313B	317F	1987/07/01	SISW1	172861
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8700279	F291	BR6064	9999	313B	317F	1987/07/01	SRST2	172863
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8700279	F291	BR6066	9999	313B	317F	1987/07/01	SVLS1	172865
8700279	F291	BR6067	9999	313B	317F	1987/07/01	TPLM2	172866
8700279	F291	BR6068	9999	313B	317F	1987/07/01	TTIW1	172867
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(94 rows affected)

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8700279	F291	BR5981	317F	1	7420	87/07/01	87/07/01
8700279	F291	BR5982	317F	1	7410	87/07/01	87/07/01
8700279	F291	BR5983	317F	1	7408	87/07/01	87/07/01
8700279	F291	BR5984	317F	1	1154	87/07/01	87/07/01
8700279	F291	BR5985	317F	1	3244	87/07/01	87/07/01
8700279	F291	BR5986	317F	1	8928	87/07/01	87/07/01
8700279	F291	BR5987	317F	1	7422	87/07/01	87/07/01
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8700279	F291	BR5990	317F	1	5876	87/07/01	87/07/01
8700279	F291	BR5991	317F	1	6974	87/07/01	87/07/01
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