

TO: E/OC12 - Branch Chief ←

E/OC11 - P. Hadsell

FROM: E/OC13 - A. Picciolo

DATE: January 24, 1989

SUBJECT: Data Transfer

8800334

The following listed data sets have been transferred as indicated:

ARCHIVE AND INVENTORIES BRANCH

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

Wind/Wave Spectra (F191)

Acc: 8800334 Ref: BR7508 - 7603 96 sta. 558,714 records

NOAA-NDBC

(November 1988)

cc: Division Director

F191

C. DATA FORMAT

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

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

Record type "1" (position 10) is Descriptive. The file, platform, location, sampling and originator are described.

Record type "2" is Environmental Data. File keys are included along with meteorology and wave conditions.

Record type "3" is Wave Spectra Data.

Record type "4" is Subsurface Temperature Data.

Record type "5" is other Subsurface Data.

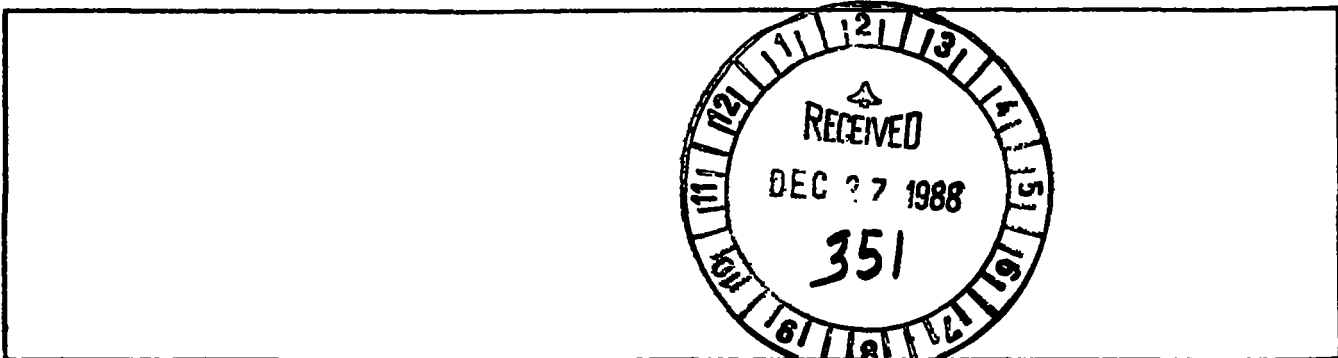
Record type "6" is Co and Quad Spectra for Directional Waves.

Record type "7" is Angular Fourier Coefficients for Directional Waves.

Record type "8" is Directional Wave Data.

Record type "9" is Continuous Wind Measurements.

2. GIVE BRIEF DESCRIPTION OF FILE ORGANIZATION



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

4. RESPONSIBLE COMPUTER SPECIALIST:

NAME AND PHONE NUMBER _____
 ADDRESS _____

COMPLETE THIS SECTION IF DATA ARE ON MAGNETIC TAPE

<p>5. RECORDING MODE</p> <p><input type="checkbox"/> BCD <input type="checkbox"/> BINARY</p> <p><input checked="" type="checkbox"/> ASCII <input type="checkbox"/> EBCDIC</p> <p><input type="checkbox"/> _____</p>	<p>9. LENGTH OF INTER-RECORD GAP (IF KNOWN) <input checked="" type="checkbox"/> 3/4 INCH</p> <p><input type="checkbox"/> _____</p>
<p>6. NUMBER OF TRACKS (CHANNELS)</p> <p><input type="checkbox"/> SEVEN</p> <p><input checked="" type="checkbox"/> NINE</p> <p><input type="checkbox"/> _____</p>	<p>10. END OF FILE MARK</p> <p><input checked="" type="checkbox"/> OCTAL 17</p> <p><input type="checkbox"/> _____</p>
<p>7. PARITY</p> <p><input checked="" type="checkbox"/> ODD</p> <p><input type="checkbox"/> EVEN</p>	<p>11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME LAY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER)</p>
<p>8. DENSITY</p> <p><input type="checkbox"/> 200 BPI <input checked="" type="checkbox"/> 1600 BPI</p> <p><input type="checkbox"/> 556 BPI</p> <p><input type="checkbox"/> 800 BPI</p> <p><input type="checkbox"/> _____</p>	<p>12. PHYSICAL BLOCK LENGTH IN BYTES</p> <p>4080</p> <p>13. LENGTH OF BYTES IN BITS</p> <p>8</p>

RECORD FORMAT DESCRIPTION

RECORD NAME

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

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
DESCRIPTIVE HEADER RECORD					
FILE TYPE	1	3	Bytes	A3	"191" (constant)
FILE DATE	4	6	Bytes	3I2	Yr.,Mo.,Day of file generation
RECORD TYPE	10	1	Byte	A1	"1" (Descriptive header record)
STATION	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)
LATITUDE	27	6	Bytes	3I2	Degrees, Minutes, Seconds
LAT. HEMISPHERE	33	1	Byte	A1	"N" or "S" Hemisphere
LONGITUDE	34	7	Bytes	13, 2I2	Degrees, Minutes, Seconds
LON. HEMISPHERE	41	1	Byte	A1	"E" OR "W" HEMISPHERE
BOTTOM DEPTH	42	5	Bytes	I5	Meters to tenths
MAGNETIC VARIATION	47	4	Bytes	I4	Whole degrees from true north (signed value)
BUOY HEADING*	51	3	Bytes	I3	Whole degrees from true north
WAVE SAMPLING RATE*	54	4	Bytes		I4Original measurements per minute to tenths
WAVE SAMPLING DURATION*	58	4	Bytes	I4	Minutes to hundredths
WAVE TOTAL INTERVALS*	62	3	Bytes	I3	Number of frequency intervals
CHIEF SCIENTIST	65	20	Bytes		A20(optional)
INSTITUTION	85	20	Bytes	A20	Data source
WIND SAMPLING DURATION	105	3	Bytes	I3	Minutes to tenths
COMMENTS *for buoy data only	108	13	Bytes		A13 RECORD LENGTH IS 120
ENVIRONMENTAL DATA RECORD					
FILE TYPE	1	3	Bytes	A3	"191" (constant)
FILE DATE	4	6	Bytes	3I2	Yr.,Mo.,Day of file generation
RECORD TYPE	10	1	Byte	A1	"2" (environmental data rec.)
STATION	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)
ALTITUDE	27	3	Bytes	I3	Meteorology alt., meters to tenths
AIR TEMP	30	4	Bytes	I4	Temperature, Celsius to tenths
DEW POINT	34	4	Bytes	I4	I4Temperature, Celsius to tenths
BAROMETER	38	5	Bytes	I5	Millibars to tenths (reduced to sea level)
WIND SPEED	43	4	Bytes	I4	Meters/sec. to hundredths
WIND DIRECTION	47	4	Bytes	I4	From true north, degrees to tenths
WEATHER	51	1	Byte	I1	Current weather (WMO Code 4501)
VISIBILITY	52	3	Bytes	I3	Nautical miles, to tenths

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 MEASURING
		NUMBER	UNITS		
PRECIPITATION	55	4	Bytes	I4	Accumulation in millimeters
SOLAR RADIATION	59	3	Bytes	I3	Langley's/minute to hundredths wave length less than 3.6
SOLAR RADIATION	62	3	Bytes	I3	Langley's/minute to hundredths wave length from 4.0 to 50 microns
SIGNIFICANT WAVE HEIGHT *	65	3	Bytes	I3	Meters to tenths, corrected for low frequency noise, etc.
AVERAGE WAVE PERIOD *	68	3	Bytes	I3	Seconds to tenths
DOMINANT WAVE DIRECTION *	71	3	Bytes	I3	Direction of predominant waves in whole degrees from true N
HIGHEST CREST	74	3	Bytes	I3	Meters to tenths, from reference level
DEEPEST TROUGH SEA SURFACE	77	3	Bytes	I3	Meters to tenths, from reference level
TEMPERATURE SEA SURFACE	80	4	Bytes	I4	Temperature Celsius to hundredths
SALINITY	84	5	Bytes	I5	Parts per thousand to thousandths
CONDUCTIVITY	89	5	Bytes	I5	Millimhos/cm to thousandths
DOMINANT WAVE PERIOD	94	3	Bytes	I3	Seconds to tenths
MAXIMUM WAVE HEIGHT	97	3	Bytes	I3	Meters to tenths
MAXIMUM WAVE STEEPNESS	100	3	Bytes	I3	To be defined
WIND GUST	103	4	Bytes	I4	Meters/sec. to hundredths
WIND GUST (avg. pd.) AVERAGING PERIOD	107	2	Bytes	I2	Seconds
WIND GUST	109	4	Bytes	I4	Meters/sec. to hundredths
WIND GUST	113	2	Bytes	I2	Seconds
WIND SPEED (58 min. average)	115	3	Bytes	I3	Meters/sec. to tenths whole degrees
WIND DIRECTION (58 min. average)	118	3	Bytes	I3	Whole degrees
* Significant wave height, average wave period, and dominant wave period are set to zero when significant wave height is less than 0.15 meters.					
WAVE SPECTRA DATA RECORD					
FILE TYPE	1	3	Bytes	A3	"191 (constant)
FILE DATE	4	6	Bytes	3I2	Yr., No., Day of file generation
RECORD TYPE	10	1	Byte	A1	"3" (Wave Spectra Data Record)
STATION	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)
INTERVALS PER DIRECTION	27	3	Bytes	I3	Zero for non-directional spectra, or total number of frequencies in this direction

RECORD FORMAT DESCRIPTION

RECORD NAME File Type "191"

14. FIELD NAME	15. POSITION FROM-1 MEASURED IN (e.g., Mb, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
WAVE SPECTRA DATA RECORD (cont'd)					
DIRECTION	30	4	Bytes	I4	Blank for non-directional spectra, or degrees to tenths from true N for frequencies on this record
COUNT	34	1	Byte	I1	Number of frequencies on this record
DATA	35	70	Bytes	5(2I4,I6)	Up to 5 Frequency, Resolution, Density fields. Null fields blank
Frequency	35,49,63 77,91	4	Bytes	I4	Center frequency of interval in Hertz to thousandths
Resolution	39,53,67 81,95	4	Bytes	I4	Resolution of interval in Hertz to ten-thousandths
Density	43,57,71 85,99	6	Bytes	I6	Spectral Density of interval in m ² /Hz to thousandths
BLANKS	105	16	Bytes	16X	Fill the fixed length record
SUBSURFACE TEMPERATURE DATA RECORD					
FILE TYPE	1	3	Bytes	A3	"191" (constant)
FILE DATE	4	6	Bytes	3I2	Yr.,Mo.,Day of file generation
RECORD TYPE	10	1	Byte	A1	"4" (Subsurface Temperature Data Record)
STATION	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)
DATA	27	90	Bytes	10(I5,I4)	Up to 10 Depth and temperature fields
Depth	27,36,45 54,63,72 81,90,99 108	5	Bytes	I5	Obs. level, meters to tenths
Temperature	32,41,50 59,68,77 86,95,104 113	4	Bytes	I4	Degrees Celsius to hundredths (include Sea Surface temperature)
BLANKS	117	4	Bytes	4X	Fill the fixed length record
SUBSURFACE DATA RECORD					
FILE TYPE	1	3	Bytes	A3	"191" (constant)
FILE DATE	4	6	Bytes	3I2	Yr.,Mo.,Day of file generation
RECORD TYPE	10	1	Byte	A1	"5" (Subsurface Data Record)
STATION	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)

RECORD FORMAT DESCRIPTION

RECORD NAME File Type "191"

14. FIELD NAME	15. POSITION FROM-1 MEASURED IN <small>(e.g., Mb, bytes)</small>	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
SUBSURFACE DATA RECORD (cont'd)					
DATA	27	90	Bytes	3(15,15,15,15,15,15)	Up to 3 Depth, U Component, V Component, Pressure, Conductivity, Salinity fields
Depth	27,57,87	5	Bytes	15	Obs. Level, meters to tenths
U Component	32,62,92	5	Bytes	15	East vector in cm/sec. to tenths
V Component	37,67,97	5	Bytes	15	True north vector in cm/sec. to tenths
Pressure	42,72,102	5	Bytes	15	Kg./cm ² to hundredths
Conductivity	47,77,107	5	Bytes	15	Millimhos/cm to thousandths
Salinity	52,82,112	5	Bytes	15	Parts per 1000 to thousandths
BLANKS	117	4	Bytes	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"
FILE DATE	4	6	Bytes	3I2	Yr., Mo., Day of file generation
RECORD TYPE	10	1	Byte	A1	Always "6"
STATION NUMBER	11	6	Bytes	A6	Unique name of observation point
OBSERVED DATE	17	6	Bytes	3I2	Year, month, day (GMT)
OBSERVED TIME	23	4	Bytes	2I2	Hours, minutes (GMT)
FREQUENCY	27	4	Bytes	I4	Center frequency of interval in Hz to .001
SPECTRAL RESOLUTION	31	5	Bytes	I5	Spectral resolution of this frequency band in Hz to ten thousandths
CO-SPECTRA C ₁₁	36	6	Bytes	Signed Integers I6	Up to 9 <u>uncorrected</u> values of Co and Quad spectra in meters squared/Hz. The order these spectra are presented is: C ₁₁ , C ₂₂ , C ₃₃ , C ₁₂ , Q ₁₂ , C ₁₃ , Q ₁₃ , C ₂₃ , and Q ₂₃
EXPONENT	42	2	Bytes	I2	Where subscripts are defined as follows:
CO-SPECTRA C ₂₂	44	6	Bytes	I6	1. Heave
EXPONENT	50	2	Bytes	I2	2. E-W Slope
CO-SPECTRA C ₃₃	52	6	Bytes	I6	3. N-S Slope
EXPONENT	58	2	Bytes	I2	
CO-SPECTRA C ₁₂	60	6	Bytes	I6	
EXPONENT	66	2	Bytes	I2	
QUAD-SPECTRA Q ₁₂	68	6	Bytes	I6	If the exponent is less than -9 the exponent and its associated spectra should be zero
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

File Type "191"

RECORD NAME

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"
FILE DATE	4	6	Bytes	3I2	Yr., Mo., Day of file generation
RECORD TYPE	10	1	Byte	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

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		
DIRECTIONAL WAVE DATA RECORD					
FILE TYPE	1	3	Bytes	A3	"191" (Constant)
FILE DATE	4	6	Bytes	3I2	Yr., Mo., Day of file generation
RECORD TYPE	10	1	Byte	A1	"8" (Directional Wave Data Record)
STATION	11	6	Bytes	A6	Inique name of observation point
OBSERVED DATE	17	6	Bytes	3I2	Year, Month, Day (GMT)
OBSERVED TIME	23	4	Bytes	2I2	Hours, Minutes (GMT)
COUNT	27	1	Byte	I1	Number of Frequencies on this Record (-1,2,or3)
FREQUENCY	28	4	Bytes	I4	Center of Band in HZ to Ten-Thousandths
RESOLUTION (BANDWIDTH)	32	4	Bytes	I4	Bandwidth in HZ to Ten-Thousandths
R1 (see below)	36	4	Bytes	I4	Recorded to Nearest Hundredth
R2 (see below)	40	4	Bytes	I4	Recorded to Nearest Hundredth
A1 (see below)	44	4	Bytes	I4	Recorded in Degrees to Tenths
A2 (see below)	48	4	Bytes	I4	Recorded in Degrees to Tenths
C11S (see below)	52	6	Bytes	I6	Recorded in Meters Squared HZ to Thousandths
FREQUENCY	58	4	Bytes	I4	Center of Band in HZ to Ten-Thousandths
RESOLUTION (BANDWIDTH)	62	4	Bytes	I4	Bandwidth in HZ to Ten-Thousandths
R1 (see below)	66	4	Bytes	I4	Recorded to Nearest Hundredth
R2 (see below)	70	4	Bytes	I4	Recorded to Nearest Hundredth
A1 (see below)	74	4	Bytes	I4	Recorded in Degrees to Tenths
A2 (see below)	78	4	Bytes	I4	Recorded in Degrees to Tenths
C11S (see below)	82	6	Bytes	I6	Recorded in Meters Squared/HZ to Thousandths
FREQUENCY	88	4	Bytes	I4	Center of Band in HZ to Ten-Thousandths
RESOLUTION (BANDWIDTH)	92	4	Bytes	I4	Bandwidth in HZ to Ten-Thousandths
R1 (see below)	96	4	Bytes	I4	Recorded to Nearest Hundredth
R2 (see below)	100	4	Bytes	I4	Recorded to Nearest Hundredth
A1 (see below)	104	4	Bytes	I4	Recorded to Degrees to Tenths
A2 (see below)	108	4	Bytes	I4	Recorded in Degrees to Tenths
C11S (see below)	112	6	Bytes	I6	Recorded in Meters Squared/HZ to Thousandths
BLANKS	118	3	Bytes	3X	Fill the fixed lengths record
<p>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.</p>					

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		
CONTINUOUS WIND MEASUREMENT					
FIELD TYPE	1	3	Bytes	I3	Always "191"
FILE DATE	4	6	Bytes	3I2	Yr., Mo., Day of file generation
RECORD TYPE	10	1	Byte	A1	Always "9"
STATION NUMBER	11	6	Bytes	A6	See Record '1'
REPORT DATE	17	6	Bytes	3I2	Year, Month, Day (UTC)
REPORT TIME	23	4	Bytes	2I2	Hour, Minutes (UTC)
SPEED AVERAGING METHOD	27	1	Byte	I1	1-Vector, 2-Scalar
STANDARD DEVIATION OF HOURLY SPEED	28	3	Bytes	I3	M/S to Tenths
STANDARD DEVIATION OF HOURLY DIRECTION ¹	31	4	Bytes	I4	Whole Degrees
HOURLY PEAK WIND DIRECTION OF HOURLY PEAK	35	3	Bytes	I3	M/S to Tenths
MINUTE OF HOURLY PEAK	38	3	Bytes	I3	Whole Degrees
END OF ACQUISITION TIME	41	2	Bytes	I2	Minutes (UTC)
FIRST AVERAGE DIRECTION ²	43	4	Bytes	2I2	Hour, Minutes (UTC)
FIRST AVERAGE SPEED	47	3	Bytes	I3	Whole Degrees
SECOND AVERAGE DIRECTION	50	3	Bytes	I3	M/S to Tenths
SECOND AVERAGE SPEED	53	3	Bytes	I3	Whole Degrees
THIRD AVERAGE DIRECTION	56	3	Bytes	I3	M/S to Tenths
THIRD AVERAGE SPEED	59	3	Bytes	I3	Whole Degrees
FOURTH AVERAGE DIRECTION	62	3	Bytes	I3	M/S to Tenths
FOURTH AVERAGE SPEED	65	3	Bytes	I3	Whole Degrees
FIFTH AVERAGE DIRECTION	68	3	Bytes	I3	M/S to Tenths
FIFTH AVERAGE SPEED	71	3	Bytes	I3	Whole Degrees
SIXTH AVERAGE DIRECTION	74	3	Bytes	I3	M/S to Tenths
SIXTH AVERAGE SPEED	77	3	Bytes	I3	Whole Degrees
SIXTH AVERAGE SPEED	80	3	Bytes	I3	M/S to Tenths

File Type 101 RECORD FORMAT DESCRIPTION

RECORD NAME _____

14. FIELD NAME	15. POSITION FROM-1 MEASURED IN (e.g. bits, bytes)	16. LENGTH NUMBER UNITS		17. ATTRIBUTES	18. USE AND MEANING
<u>CONTINUOUS WIND MEASUREMENT (Cont'd)</u>					
<p>¹Expansion Parameter.</p> <p>²Ten minute average winds are measured for minutes 0-9, 10-19, 20-29, 30-39, 40-49, and 50-59. The first set is for the ten minute period ending immediately before the End of Acquisition time. The remaining sets go back in time.</p> <p>For example, if End of Acquisition is 10:25, then the First Average will be for the time period 10:10 to 10:19, and the Second Average will be for the period 10:00 to 10:09. If End of Acquisition is 10:30, then the First Average will be for the time period 10:20 to 10:29.</p>					

TO: E/OC12 - Branch Chief
E/OC11 - P. Hadsell
FROM: E/OC13 - A. Picciolo
DATE: January 24, 1989
SUBJECT: Data Transfer

The following listed data sets have been transferred as indicated:

ARCHIVE AND INVENTORIES BRANCH

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

Wind/Wave Spectra (F191)

Acc: 8800334 Ref: BR7508 - 7603 96 sta. 558,714 records

NOAA-NDBC (November 1988)

cc: Division Director

CESS NUMBER	REF NUMBER	FILE TYPE	PROJ CODE	INST	PLAT	CRUISE NO	CRUISE START	CRUISE END	NUM STA	NUM REC
8800334	BR7508	F191		313B	317F	32302	11/01/88	11/30/88	1	6,922
8800334	BR7509	F191		313B	317F	41001	11/01/88	11/30/88	1	8,446
8800334	BR7510	F191		313B	317F	41002	11/01/88	11/30/88	1	8,618
8800334	BR7511	F191		313B	317F	41006	11/01/88	11/30/88	1	8,608
8800334	BR7512	F191		313B	317F	41008	11/01/88	11/30/88	1	43,560
8800334	BR7513	F191		313B	317F	41009	11/01/88	11/30/88	1	14,156
8800334	BR7514	F191		313B	317F	41010	11/10/88	11/30/88	1	6,268
8800334	BR7515	F191		313B	317F	42001	11/01/88	11/30/88	1	7,184
8800334	BR7516	F191		313B	317F	42002	11/01/88	11/30/88	1	7,877
8800334	BR7517	F191		313B	317F	42003	11/01/88	11/30/88	1	7,138
8800334	BR7518	F191		313B	317F	42007	11/01/88	11/30/88	1	43,149
8800334	BR7519	F191		313B	317F	42016	11/01/88	11/30/88	1	43,682
8800334	BR7520	F191		313B	317F	44004	11/01/88	11/30/88	1	8,576
8800334	BR7521	F191		313B	317F	44005	11/01/88	11/30/88	1	8,640
8800334	BR7522	F191		313B	317F	44007	11/01/88	11/30/88	1	6,952
8800334	BR7523	F191		313B	317F	44008	11/01/88	11/30/88	1	7,861
8800334	BR7524	F191		313B	317F	44009	11/01/88	11/12/88	1	2,706
8800334	BR7525	F191		313B	317F	44011	11/01/88	11/30/88	1	8,596
8800334	BR7526	F191		313B	317F	44012	11/01/88	11/30/88	1	6,284
8800334	BR7527	F191		313B	317F	44013	11/01/88	11/11/88	1	2,179

CESS NUMBER	REF NUMBER	FILE TYPE	PROJ CODE	INST PLAT	CRUISE NO	CRUISE START	CRUISE END	NUM STA	NUM REC
8800334	BR7528	F191		313B 317F	45001	11/01/88	11/30/88	1	7,084
8800334	BR7529	F191		313B 317F	45002	11/01/88	11/12/88	1	2,644
8800334	BR7530	F191		313B 317F	45003	11/01/88	11/29/88	1	6,738
8800334	BR7531	F191		313B 317F	45004	11/01/88	11/08/88	1	1,726
8800334	BR7532	F191		313B 317F	45005	11/01/88	11/21/88	1	4,900
8800334	BR7533	F191		313B 317F	45006	11/01/88	11/07/88	1	1,600
8800334	BR7534	F191		313B 317F	45007	11/01/88	11/30/88	1	7,146
8800334	BR7535	F191		313B 317F	46001	11/01/88	11/30/88	1	8,616
8800334	BR7536	F191		313B 317F	46002	11/01/88	11/30/88	1	8,606
8800334	BR7537	F191		313B 317F	46003	11/01/88	11/30/88	1	6,072
8800334	BR7538	F191		313B 317F	46005	11/01/88	11/09/88	1	526
8800334	BR7539	F191		313B 317F	46006	11/01/88	11/30/88	1	7,561
8800334	BR7540	F191		313B 317F	46010	11/01/88	11/30/88	1	7,162
8800334	BR7541	F191		313B 317F	46011	11/01/88	11/30/88	1	7,180
8800334	BR7542	F191		313B 317F	46012	11/01/88	11/30/88	1	7,172
8800334	BR7543	F191		313B 317F	46013	11/01/88	11/30/88	1	7,160
8800334	BR7544	F191		313B 317F	46017	11/01/88	11/30/88	1	476
8800334	BR7545	F191		313B 317F	46022	11/01/88	11/30/88	1	1,436
8800334	BR7546	F191		313B 317F	46023	11/01/88	11/30/88	1	7,154
8800334	BR7547	F191		313B 317F	46025	11/01/88	11/30/88	1	7,170
8800334	BR7548	F191		313B 317F	46026	11/01/88	11/30/88	1	7,156
900334	BR7549	F191		313B 317F	46027	11/01/88	11/30/88	1	1,434
00334	BR7550	F191		313B 317F	46028	11/01/88	11/30/88	1	1,436
8800334	BR7551	F191		313B 317F	46030	11/01/88	11/30/88	1	6,982
8800334	BR7552	F191		313B 317F	46035	11/01/88	11/30/88	1	7,016
8800334	BR7553	F191		313B 317F	46040	11/01/88	11/10/88	1	2,328
8800334	BR7554	F191		313B 317F	46041	11/01/88	11/30/88	1	7,180
8800334	BR7555	F191		313B 317F	46042	11/01/88	11/30/88	1	41,360
8800334	BR7556	F191		313B 317F	46125	11/01/88	11/30/88	1	14,985

CESS NUMBER	REF NUMBER	FILE TYPE	PROJ CODE	INST	PLAT	CRUISE NO	CRUISE START	CRUISE END	NUM STA	NUM REC
8800334	BR7557	F191		313B	317F	51001	11/01/88	11/30/88	1	8,618
8800334	BR7558	F191		313B	317F	51002	11/01/88	11/30/88	1	8,608
8800334	BR7559	F191		313B	317F	51003	11/01/88	11/30/88	1	8,580
8800334	BR7560	F191		313B	317F	51004	11/01/88	11/30/88	1	8,564
8800334	BR7561	F191		313B	317F	ALSNG	11/01/88	11/30/88	1	1,422
8800334	BR7562	F191		313B	317F	BURL1	11/01/88	11/30/88	1	1,434
8800334	BR7563	F191		313B	317F	BUZM3	11/01/88	11/30/88	1	1,436
8800334	BR7564	F191		313B	317F	CAR03	11/01/88	11/30/88	1	1,436
8800334	BR7565	F191		313B	317F	CHLV2	11/01/88	11/30/88	1	6,968
8800334	BR7566	F191		313B	317F	CLKN7	11/01/88	11/11/88	1	780
8800334	BR7567	F191		313B	317F	CSEF1	11/01/88	11/30/88	1	2,153
8800334	BR7568	F191		313B	317F	DBLN6	11/01/88	11/30/88	1	1,320
8800334	BR7569	F191		313B	317F	DESW1	11/01/88	11/30/88	1	1,438
8800334	BR7570	F191		313B	317F	DISW3	11/01/88	11/30/88	1	1,426
8800334	BR7571	F191		313B	317F	DPIA1	11/01/88	11/30/88	1	1,434
8800334	BR7572	F191		313B	317F	DSLNG	11/01/88	11/30/88	1	3,260
8800334	BR7573	F191		313B	317F	FARP2	11/01/88	11/30/88	1	1,430
8800334	BR7574	F191		313B	317F	FBIS1	11/01/88	11/30/88	1	1,436
8800334	BR7575	F191		313B	317F	FFIA2	11/01/88	11/30/88	1	1,438
8800334	BR7576	F191		313B	317F	FPSN7	11/01/88	11/30/88	1	1,424
8800334	BR7577	F191		313B	317F	GDIL1	11/01/88	11/30/88	1	1,434
8800334	BR7578	F191		313B	317F	GLLN6	11/01/88	11/07/88	1	170
8800334	BR7579	F191		313B	317F	IOSN3	11/01/88	11/30/88	1	1,438
8800334	BR7580	F191		313B	317F	LKWF1	11/01/88	11/30/88	1	1,350
8800334	BR7581	F191		313B	317F	MDRM1	11/01/88	11/30/88	1	1,434
8800334	BR7582	F191		313B	317F	MISM1	11/01/88	11/30/88	1	1,432
8800334	BR7583	F191		313B	317F	MLRF1	11/01/88	11/30/88	1	1,432
8800334	BR7584	F191		313B	317F	MPCL1	11/01/88	11/30/88	1	1,432
8800334	BR7585	F191		313B	317F	NWPO3	11/01/88	11/30/88	1	1,432
8800334	BR7586	F191		313B	317F	PILM4	11/01/88	11/30/88	1	1,438
8800334	BR7587	F191		313B	317F	PTAC1	11/01/88	11/30/88	1	1,438
8800334	BR7588	F191		313B	317F	PTAT2	11/01/88	11/30/88	1	1,432
8800334	BR7589	F191		313B	317F	PTGC1	11/01/88	11/30/88	1	1,434
8800334	BR7590	F191		313B	317F	ROAM4	11/01/88	11/30/88	1	1,432
8800334	BR7591	F191		313B	317F	SAUF1	11/01/88	11/30/88	1	2,133
8800334	BR7592	F191		313B	317F	SBIO1	11/01/88	11/30/88	1	1,436
8800334	BR7593	F191		313B	317F	SGNW3	11/01/88	11/30/88	1	1,438
8800334	BR7594	F191		313B	317F	SISW1	11/01/88	11/30/88	1	1,436
8800334	BR7595	F191		313B	317F	SMKF1	11/01/88	11/30/88	1	1,404
8800334	BR7596	F191		313B	317F	SPGF1	11/01/88	11/30/88	1	1,370
8800334	BR7597	F191		313B	317F	SRST2	11/01/88	11/30/88	1	2,150
8800334	BR7598	F191		313B	317F	STDMA	11/01/88	11/30/88	1	1,436
8800334	BR7599	F191		313B	317F	SVLS1	11/01/88	11/30/88	1	1,436
8800334	BR7600	F191		313B	317F	TPLM2	11/01/88	11/30/88	1	1,436
8800334	BR7601	F191		313B	317F	TTIW1	11/01/88	11/30/88	1	1,434
8800334	BR7602	F191		313B	317F	VENF1	11/01/88	11/30/88	1	1,432
8800334	BR7603	F191		313B	317F	WPOW1	11/01/88	11/30/88	1	1,432

ACCESSION NO. 8800334 FILETYPE F191

TRACK NO. _____

PROJECT IDENTIFICATION _____

NOV. 1988

BR7508-7527

STEP	DATE	INIT.	TAPE OR DISK DSN	NO. FILES	RECL	BLK SIZE	NO. RECORD
ORIG. TAPE	12-30-88	FJM	A00846	1	120	4080	27544
DUPLICATE TAPE	1-10-89	✓	W10540	1	120	4800	257402
REFORMATTED TAPE							
REFORMATTED DISK							
FIRST MULCHEK							
FINAL MULCHEK							
MPD75 OR F022							
DATA SET FINALIZED							

ERRORS REPORTED TO PRINCIPAL INVESTIGATOR:

BR7508

257,402 records

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

COMMENTS (TRACKS DELETED, FIELDS DELETED, ETC.)

ACCESSION NO 8800334

FILETYPE F191

TRACK NO. _____

PROJECT IDENTIFICATION _____

NOV. 1988

BR 7528 - 7556

STEP	DATE	INIT.	TAPE OR DISK DSN	NO. FILES	RECL	BLK SIZE	NO. RECORD
ORIG. TAPE	12-30-88	FJM	A00847 *	1	120	4080	198,016
DUPLICATE TAPE	1-2-89	✓	W11450 *	1	120	4800	17,808
REFORMATTED TAPE			5				198,016
REFORMATTED DISK							
FIRST MULCHEK							
FINAL MULCHEK							
MPD75 OR F022							
DATA SET FINALIZED							

ERRORS REPORTED TO PRINCIPAL INVESTIGATOR:

198,026 records

* = NO-LABEL, 1600 BPI, ASCII

BR 7528.

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

COMMENTS (TRACKS DELETED, FIELDS DELETED, ETC.)

D191P

ACCESSION NO. 8800334

FILETYPE F191

TRACK NO. _____

PROJECT IDENTIFICATION _____

NOV. 1988

BR 7557-7603

STEP	DATE	INIT.	TAPE OR DISK DSN	NO. FILES	RECL	BLK SIZE	NO. RECORDED
ORIG. TAPE	12-30-88	FJM	A00848 *	1	120	4080	103,306
DUPLICATE TAPE	1-18-89	✓	W12617 *	1	120	4800	103,306
REFORMATTED TAPE							
REFORMATTED DISK							
FIRST MULCHEK							
FINAL MULCHEK							
MPD75 OR F022							
DATA SET FINALIZED							

ERRORS REPORTED TO PRINCIPAL INVESTIGATOR:

* = NO-LABEL, 1600 b.p.l., ASCII

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

103,306 records

COMMENTS (TRACKS DELETED, FIELDS DELETED, ETC.)

EQUIPMENT TO BE USED AND FUNCTION TO BE PERFORMED

VAX SCAN

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

TAPE/DISKETTE INFORMATION

	TAPE #/ DISKETTE	SLOT #	TRK	DENSITY	PARITY	LABEL TYPE	RECORD TYPE	RECORD LENGTH	MAX. BLOCK SIZE	# OF FILES
INPUT	<u>A00846</u>		<u>9</u>	<u>1600</u>	<u>0</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

SPECIAL INSTRUCTIONS

8800334

ESTIMATED
EXECUTION
TIME

0731 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>58123001</u>	<u>723088</u>	<u>1349</u>		<u>C</u>	<u>COMPLETED by FL</u>

COMMENTS

JUDGMENT TO BE USED AND FUNCTION TO BE PERFORMED

VAX 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	ADD 847		9	1600	0	NL	FB	120	4080	1
	SECTOR SIZE	EXCHANGE TYPE	CODE: (ASCII) EBCDIC BCD SDF OTHER(SPECIFY)				DATA SET NAME			
INPUT	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			
INPUT	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			

SPECIAL INSTRUCTIONS

**ESTIMATED
EXECUTION
TIME**

FOR USER ONLY

JOB #	DATE JOB COMPLETED	START TIME	END TIME	PRIORITY	DEVICES USED, NUMBER OF TAPE MOUNTS, LINES PRINTED DISKETTES USED, CARDS PUNCHED, CARDS KEYVERIFIED
SI 230 02	123088	1340	1348	C	COMPLETED BY FL

8800334

REMARKS

F. MITCHELL

5643

E/OC/3

12-30-88

33

EQUIPMENT TO BE USED AND FUNCTION TO BE PERFORMED.

VAX SCAN

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

TAPE/DISKETTE INFORMATION

TAPE #/ DISKETTE	SLOT #	TRK	DENSITY	PARITY	LABEL TYPE	RECORD TYPE	RECORD LENGTH	MAX. BLOCK SIZE	# OF FILES
<u>A00848</u>		<u>9</u>	<u>1600</u>	<u>0</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
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

731 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>18123002</u>	<u>123088</u>	<u>1335</u>	<u>1340</u>	<u>C</u>	<u>COMPLETED BY FL</u>

REMARKS

8800 334

8800334



U.S. DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
National Data Buoy Center
Stennis Space Center, Mississippi 39529-6000

December 22, 1988

F1804-02
DB3:88-0677
SPN:ldm

A00846
A00847
A00848

Chief, Data Acquisition Management Branch
National Oceanographic Data Center
NOAA/NESDIS
1825 Connecticut Ave. NW
Washington, DC. 20235

Dear Sir:

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

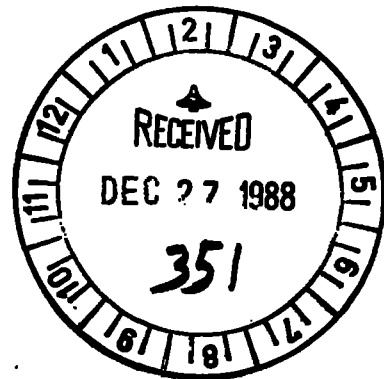
If you have any questions, please call B.G. Redmon at FTS 494-2834, or Commercial (601) 688-2834

Sincerely,

Sallie P. Nolan

Sallie P. Nolan
ADP Manager

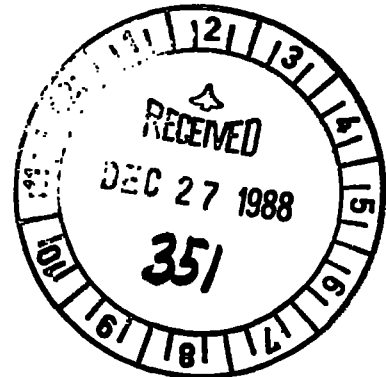
Enclosures



Attachment

Tape 1: 32302 11018800-11308823
41001 11018800-11308823
41002 11018800-11308823
41006 11018800-11308823
41008 11018800-11308823
41009 11018800-11308823
41010 11238813-11308823
42001 11018800-11308823
42002 11018800-11308823
42003 11018800-11308823-10
42007 11018800-11308823
42016 11018800-11308823
44004 11018800-11308823
44005 11018800-11308823
44007 11018800-11308823
44008 11018800-11308823
44009 11018800-11128817
44011 11018800-11308823
44012 11018800-11308823
44013 11018800-11118801-20

Tape 2: 45001 11018800-11308823
45002 11018800-11128803
45003 11018800-11298813
45004 11018800-11088810
45005 11018800-11218820
45006 11018800-11078822
45007 11018800-11308823
46001 11018800-11308823
46002 11018800-11308823
46003 11018800-11308823-10
46005 11018800-11098809
46006 11018800-11308823
46010 11018800-11308823
46011 11018800-11308823
46012 11018800-11308823
46013 11018800-11308823
46017 11018800-11308823
46022 11018800-11308823
46023 11018800-11308823
46025 11018800-11308823-20
46026 11018800-11308823
46027 11018800-11308823
46028 11018800-11308823
46030 11018800-11308823
46035 11018800-11308823
46040 11018800-11108819
46041 11018800-11308823
46042 11018800-11308823



46125 11018800-11308823 - 29

Tape 3: 51001 11018800-11308823 BR7557

51002 11018800-11308823

51003 11018800-11308823

51004 11018800-11308823

ALSN6 11018800-11308823

BURL1 11018800-11308823

BUZM3 11018800-11308823

CARO3 11018800-11308823

CHLV2 11018800-11308823

CLKN7 11018800-11118823

CSBF1 11018800-11308823

DBLN6 11018800-11308823

DESW1 11018800-11308823

DISW3 11018800-11308823

DP1A1 11018800-11308823

DSL7 11018800-11308823

FARP2 11018800-11308823

FBIS1 11018800-11308823

FFIA2 11018800-11308823

FPSN7 11018800-11308823

GDIL1 11018800-11308823

GLLN6 11018800-11078810

IOSN3 11018800-11308823

LKWF1 11018800-11308823

MDRM1 11018800-11308823

MISM1 11018800-11308823

MLRF1 11018800-11308823

MPCL1 11018800-11308823

NWPO3 11018800-11308823

PILM4 11018800-11308823

PTAC1 11018800-11308823

PTAT2 11018800-11308823

PTGC1 11018800-11308823

ROAM4 11018800-11308823

SAUF1 11018800-11308823

BR7591

SBIO1 11018800-11308823

SGNW3 11018800-11308823

SISW1 11018800-11308823

SMKF1 11018800-11308823

SPGF1 11018800-11308823

SRST2 11018800-11308823

STDMA 11018800-11308823

SVLS1 11018800-11308823

TPLM2 11018800-11308823

TTIW1 11018800-11308823

VENF1 11018800-11308823

WPOW1 11018800-11308823

7570

BR7580

7570

BR7591

BR7600

BR7603

Password:

accNo	flea	refNo	proj	inst	ship	startDate	cruise	catId
8800334	F291	BR7508	9999	313B	317F	1988/11/01	32302	182341
8800334	F291	BR7509	9999	313B	317F	1988/11/01	41001	182342
8800334	F291	BR7510	9999	313B	317F	1988/11/01	41002	182343
8800334	F291	BR7511	9999	313B	317F	1988/11/01	41006	182344
8800334	F291	BR7512	9999	313B	317F	1988/11/01	41008	182345
8800334	F291	BR7513	9999	313B	317F	1988/11/01	41009	182346
8800334	F291	BR7514	9999	313B	317F	1988/11/10	41010	182347
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