

8900248

11/03/89

TO: E/OC12 - Branch Chief



E/OC11 - P. Hadsell

FROM: E/OC13 - A. Picciolo

SUBJECT: Data Transfer

The following listed data sets have been transferred as indicated:

Wind/Wave Spectra (F191)

Acc: 8900248 Ref: BR8338 - BR8355 18 sta. 295,836 rec.

NOAA-NDBC

(August 1989)

Wind/Wave Spectra (F191)

Acc: 8900248 Ref: BR8356 - BR8384 29 sta. 236,214⁵ rec.

NOAA-NDBC

(August 1989)

Wind/Wave Spectra (F191)

Acc: 8900248 Ref: BR8385 - BR8431 47 sta. 130,896 rec.

NOAA-NDBC

(August 1989)

662,947

cc: Div. Director

11/03/89

TO: E/OC12 - Branch Chief
E/OC11 - P. Hadsell
FROM: E/OC13 - A. Picciolo
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NOAA-NDBC

(August 1989)

cc: Div. Director

ACCESS NUMBER	REF NUMBER	FILE TYPE	PROJ CODE	INST	PLAT	CRUISE NO	CRUISE START	CRUISE END	NUM STA	NUM REC
8900248	BR8338	F191		313B	317F	32302	08/01/89	08/31/89	1	5,518
8900248	BR8339	F191		313B	317F	41001	08/01/89	08/31/89	1	8,796
8900248	BR8340	F191		313B	317F	41002	08/01/89	08/31/89	1	5,928
8900248	BR8341	F191		313B	317F	41006	08/01/89	08/31/89	1	8,762
8900248	BR8342	F191		313B	317F	41008	08/01/89	08/31/89	1	44,080
8900248	BR8343	F191		313B	317F	41009	08/01/89	08/31/89	1	14,522
8900248	BR8344	F191		313B	317F	41010	08/01/89	08/31/89	1	14,700
8900248	BR8345	F191		313B	317F	41011	08/01/89	08/31/89	1	7,266
8900248	BR8346	F191		313B	317F	42001	08/01/89	08/31/89	1	7,442
8900248	BR8347	F191		313B	317F	42002	08/01/89	08/31/89	1	8,067
8900248	BR8348	F191		313B	317F	42003	08/01/89	08/31/89	1	8,010
8900248	BR8349	F191		313B	317F	42007	08/01/89	08/31/89	1	7,984
8900248	BR8350	F191		313B	317F	42015	08/01/89	08/31/89	1	43,769
8900248	BR8351	F191		313B	317F	42016	08/01/89	08/31/89	1	42,882
8900248	BR8352	F191		313B	317F	42017	08/01/89	08/31/89	1	43,897
8900248	BR8353	F191		313B	317F	44005	08/01/89	08/31/89	1	8,790
8900248	BR8354	F191		313B	317F	44007	08/01/89	08/31/89	1	7,374
8900248	BR8355	F191		313B	317F	44008	08/01/89	08/31/89	1	8,049

ACCESS NUMBER	REF NUMBER	FILE TYPE	PROJ CODE	INST	PLAT	CRUISE NO	CRUISE START	CRUISE END	NUM STA	NUM REC
8900248	BR8356	F191		313B	317F	44009	08/01/89	08/31/89	1	7,342
8900248	BR8357	F191		313B	317F	44011	08/01/89	08/31/89	1	2,898
8900248	BR8358	F191		313B	317F	44013	08/01/89	08/31/89	1	7,154
8900248	BR8359	F191		313B	317F	45001	08/01/89	08/31/89	1	7,360
8900248	BR8360	F191		313B	317F	45002	08/01/89	08/31/89	1	7,326
8900248	BR8361	F191		313B	317F	45003	08/13/89	08/31/89	1	4,346
8900248	BR8362	F191		313B	317F	45004	08/01/89	08/31/89	1	7,296
8900248	BR8363	F191		313B	317F	45005	08/01/89	08/31/89	1	44,253
8900248	BR8364	F191		313B	317F	45006	08/01/89	08/31/89	1	7,266
8900248	BR8365	F191		313B	317F	45007	08/01/89	08/31/89	1	7,240
8900248	BR8366	F191		313B	317F	45008	08/01/89	08/31/89	1	7,246
8900248	BR8367	F191		313B	317F	46001	08/01/89	08/31/89	1	8,842
8900248	BR8368	F191		313B	317F	46002	08/01/89	08/31/89	1	8,792
8900248	BR8369	F191		313B	317F	46003	08/01/89	08/31/89	1	7,314
8900248	BR8370	F191		313B	317F	46005	08/01/89	08/31/89	1	8,782
8900248	BR8371	F191		313B	317F	46006	08/01/89	08/31/89	1	7,328
8900248	BR8372	F191		313B	317F	46010	08/01/89	08/31/89	1	7,338
8900248	BR8373	F191		313B	317F	46011	08/01/89	08/31/89	1	7,336
8900248	BR8374	F191		313B	317F	46012	08/01/89	08/31/89	1	7,374
8900248	BR8375	F191		313B	317F	46013	08/01/89	08/13/89	1	668
8900248	BR8376	F191		313B	317F	46014	08/01/89	08/31/89	1	8,834
8900248	BR8377	F191		313B	317F	46022	08/01/89	08/31/89	1	8,790
8900248	BR8378	F191		313B	317F	46023	08/01/89	08/31/89	1	7,332
8900248	BR8379	F191		313B	317F	46026	08/01/89	08/31/89	1	7,280
8900248	BR8380	F191		313B	317F	46027	08/01/89	08/31/89	1	7,266
8900248	BR8381	F191		313B	317F	46028	08/01/89	08/10/89	1	426
8900248	BR8382	F191		313B	317F	46030	08/01/89	08/31/89	1	7,378
8900248	BR8383	F191		313B	317F	46035	08/01/89	08/31/89	1	8,015
8900248	BR8384	F191		313B	317F	46040	08/01/89	08/31/89	1	7,392

ACCESS NUMBER	REF NUMBER	FILE TYPE	PROJ CODE	INST	PLAT	CRUISE NO	CRUISE START	CRUISE END	NUM STA	NUM REC
8900248	BR8385	F191		313B	317F	46041	08/01/89	08/31/89	1	7,332
8900248	BR8386	F191		313B	317F	46042	08/01/89	08/31/89	1	44,070
8900248	BR8387	F191		313B	317F	51001	08/01/89	08/31/89	1	8,752
8900248	BR8388	F191		313B	317F	51002	08/01/89	08/02/89	1	120
8900248	BR8389	F191		313B	317F	51004	08/01/89	08/31/89	1	2,830
8900248	BR8390	F191		313B	317F	ALSN6	08/01/89	08/31/89	1	1,476
8900248	BR8391	F191		313B	317F	BURL1	08/01/89	08/31/89	1	2,221
8900248	BR8392	F191		313B	317F	BUZM3	08/01/89	08/31/89	1	1,470
8900248	BR8393	F191		313B	317F	CARO3	08/01/89	08/31/89	1	1,480
8900248	BR8394	F191		313B	317F	CHLV2	08/01/89	08/31/89	1	2,202
8900248	BR8395	F191		313B	317F	CLKN7	08/01/89	08/31/89	1	2,202
8900248	BR8396	F191		313B	317F	CSBF1	08/01/89	08/31/89	1	2,222
8900248	BR8397	F191		313B	317F	DBLN6	08/01/89	08/31/89	1	1,478
8900248	BR8398	F191		313B	317F	DESW1	08/01/89	08/31/89	1	1,478
8900248	BR8399	F191		313B	317F	DISW3	08/01/89	08/31/89	1	1,476
8900248	BR8400	F191		313B	317F	DPIA1	08/01/89	08/31/89	1	1,482
8900248	BR8401	F191		313B	317F	FARP2	08/01/89	08/31/89	1	1,474
8900248	BR8402	F191		313B	317F	FBIS1	08/01/89	08/31/89	1	1,474
8900248	BR8403	F191		313B	317F	FFIA2	08/01/89	08/31/89	1	1,476
8900248	BR8404	F191		313B	317F	FPSN7	08/01/89	08/31/89	1	2,183
8900248	BR8405	F191		313B	317F	GDIL1	08/01/89	08/31/89	1	2,215
8900248	BR8406	F191		313B	317F	GLLN6	08/01/89	08/31/89	1	1,468
8900248	BR8407	F191		313B	317F	IOSN3	08/01/89	08/31/89	1	1,474
8900248	BR8408	F191		313B	317F	LKWF1	08/01/89	08/31/89	1	1,474
8900248	BR8409	F191		313B	317F	MDRM1	08/01/89	08/31/89	1	1,476
8900248	BR8410	F191		313B	317F	MISM1	08/01/89	08/31/89	1	1,474
8900248	BR8411	F191		313B	317F	MLRF1	08/01/89	08/31/89	1	1,468
8900248	BR8412	F191		313B	317F	MPCL1	08/01/89	08/31/89	1	1,476
8900248	BR8413	F191		313B	317F	NWPO3	08/01/89	08/31/89	1	1,482
8900248	BR8414	F191		313B	317F	PILM4	08/01/89	08/31/89	1	1,474
8900248	BR8415	F191		313B	317F	PTAC1	08/01/89	08/31/89	1	1,172
8900248	BR8416	F191		313B	317F	PTAT2	08/01/89	08/31/89	1	1,456
8900248	BR8417	F191		313B	317F	PTGC1	08/01/89	08/31/89	1	1,480
8900248	BR8418	F191		313B	317F	ROAM4	08/01/89	08/31/89	1	1,332
8900248	BR8419	F191		313B	317F	SAUF1	08/01/89	08/31/89	1	2,198
8900248	BR8420	F191		313B	317F	SBIO1	08/01/89	08/31/89	1	1,470
8900248	BR8421	F191		313B	317F	SGNW3	08/01/89	08/31/89	1	1,478
8900248	BR8422	F191		313B	317F	SISW1	08/01/89	08/31/89	1	1,480
8900248	BR8423	F191		313B	317F	SMKF1	08/01/89	08/31/89	1	1,174
8900248	BR8424	F191		313B	317F	SPGF1	08/01/89	08/31/89	1	2,191
8900248	BR8425	F191		313B	317F	SRST2	08/01/89	08/31/89	1	2,219
8900248	BR8426	F191		313B	317F	STDM4	08/01/89	08/31/89	1	1,476
8900248	BR8427	F191		313B	317F	SVLS1	08/01/89	08/31/89	1	1,466
8900248	BR8428	F191		313B	317F	TPLM2	08/01/89	08/31/89	1	1,474
8900248	BR8429	F191		313B	317F	TTIW1	08/01/89	08/31/89	1	1,478
8900248	BR8430	F191		313B	317F	VENF1	08/01/89	08/31/89	1	1,480
8900248	BR8431	F191		313B	317F	WPOW1	08/01/89	08/31/89	1	1,493

ACCESSION NO. 8900248 FILETYPE F191
BR8338-8355

PROJECT IDENTIFICATION _____
 TRACK NO. BR8338-8355
 AUGUST 1989

STEP	DATE	INIT.	TAPE OR DISK DSN	NO. FILES	LRECL	BLK SIZE	NO. RECORDS
ORIG. TAPE	10-4-89	FJM	A00976 *	1	120	4080	295,868
DUPLICATE TAPE	10-12-89	FJM	W12196 *	1	120	4800	295,836
REFORMATTED TAPE							
REFORMATTED DISK							
FIRST MULCHEK	11/14/89	PJA	BR8338.	1	120	4800	295,836
FINAL MULCHEK							295,836
MPD75 OR F022							
DATA SET FINALIZED	11/15/89	PJA	231972				295,836

ERRORS REPORTED TO PRINCIPAL INVESTIGATOR:

* NO LABEL

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

Deleted 000 wave period throughout
Deleted 000000 wave amplitude, wave period throughout

COMMENTS (TRACKS DELETED, FIELDS DELETED, ETC.)

ACCESSION NO. 8900248 FILETYPE F191

TRACK NO BR8356-8384 PROJECT IDENTIFICATION _____

AUGUST 1989

STEP	DATE	INIT.	TAPE OR DISK DSN	NO. FILES	RECL	BLK SIZE	NO. RECORDS
ORIG. TAPE	10-4-89	FJM	A00977 *	1	120	4080	236,232
DUPLICATE TAPE	10-18-89	↓	W13065 *	1	↓	4800	236,214
REFORMATTED TAPE							
REFORMATTED DISK							
FIRST MULCHEK	11/7/89	CBJ	BR8356.	1	120	4800	236,217
FINAL MULCHEK							
MPD75 OR F022							
DATA SET FINALIZED	11/15/89	CBJ	L31972	1	120	4800	236,217

ERRORS REPORTED TO PRINCIPAL INVESTIGATOR:

* NO LABEL

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

DELETED 000 WAVE PERIODS THROUGHOUT
 DELETED 000000 WAVE AMPL, WAVE PERIOD THROUGHOUT

MISSING MULCHEK

COMMENTS (TRACKS DELETED, FIELDS DELETED, ETC.)

ACCESSION NO. 8900248

FILETYPE F191

TRACK NO. _____

PROJECT IDENTIFICATION _____

BR8385-8431

AUGUST 1989

STEP	DATE	INIT.	TAPE OR DISK DSN	NO. FILES	LRECL	BLK SIZE	NO. RECORDS
ORIG. TAPE	10-4-89	FJM	A00978 *	1	120	4080	130,900
DUPLICATE TAPE	10-26-89	FJM	W13445 *	1	120	4800	130,896
REFORMATTED TAPE							
REFORMATTED DISK							
FIRST MULCHEK	11/20/89	CBT	BR8385.	1	120	4800	130,896
FINAL MULCHEK							
MPD75 OR F022							
DATA SET FINALIZED							

ERRORS REPORTED TO PRINCIPAL INVESTIGATOR:

* NO LABEL

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

Deleted 000 wave periods throughout
Deleted 000/000 wave amplitude, wave period throughout

COMMENTS (TRACKS DELETED, FIELDS DELETED, ETC.)

8900248
A00976
A00977
A00978



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

September 30, 1989 F1804-02
DB3:89-504
SPN: idm

Mr. Anthony Picciolo
Chief, Data Acquisition And Management Branch
NODC/NESDIS/NOAA
Universal South
1825 Connecticut Avenue, N.W.
Room 416
Washington, DC 20235

Dear Sir:

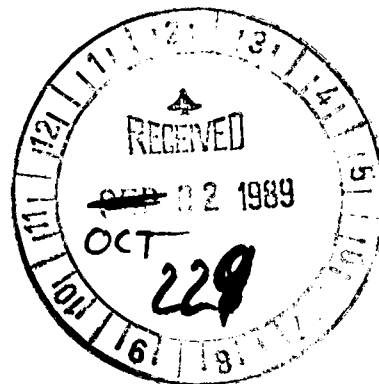
Enclosed are the August 1989, 9TK, 1600 BPI, archive tapes, recorded in the 191 tape format. The enclosure contains a list of stations and the inclusive dates that are on each tape.

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

Sincerely,

Sallie P. Nolan
ADP Manager

Enclosures



Attachment

Tape 1: 32302 08018900-08318923-¹
41001 08018900-08318923
41002 08018900-08318923
41006 08018900-08318923
41008 08018900-08318923
41009 08018900-08318923
41010 08018900-08318923
41011 08018900-08318923
42001 08018900-08318923
42002 08018900-08318923
42003 08018900-08318923
42007 08018900-08318923
42015 08018900-08318923
42016 08018900-08318923
42017 08018900-08318923
44005 08018900-08318923
44007 08018900-08318923
44008 08018900-08318923

Tape 2: 44009 08018900-08318923
44011 08018900-08318923-²⁰
44013 08018900-08318923
45001 08018900-08318923
45002 08018900-08318923
45003 08138911-08318923
45004 08018900-08318923
45005 08018900-08318923
45006 08018923-08318923
45007 08018900-08318923
45008 08018900-08318923
46001 08018900-08318923
46002 08018900-08318923
46003 08018900-08318923
46005 08018900-08318923
46006 08018900-08318923
46010 08018900-08318923
46011 08018900-08318923
46012 08018900-08318923
46013 08018900-08138911
46014 08018900-08318923
46022 08018900-08318923-⁴⁰
46023 08018900-08318923
46026 08018900-08318923
46027 08018900-08318923
46028 08018900-08108904
46030 08018900-08318923
46035 08018900-08318923
46040 08018900-08318923



Tape3: 46041 08018900-08318923
46042 08018900-08318923
51001 08018900-08318923
51002 08018900-08028903
51004 08018900-08318923
ALSN6 08018900-08318923
BURL1 08018900-08318923
BUZM3 08018900-08318923
CARO3 08018900-08318923
CHLV2 08018900-08318923
CLKN7 08018900-08318923
CSBF1 08018900-08318923
DBLN6 08018900-08318923-60
DESW1 08018900-08318923
DISW3 08018900-08318923
DPIA1 08018900-08318923
FARP2 08018900-08318923
FBIS1 08018900-08318923
FFIA2 08018900-08318923
FPSN7 08018900-08318923
GDIL1 08018900-08318923
GLLN6 08018900-08318923
IOSN3 08018900-08318923
LKWF1 08018900-08318923
MDRM1 08018900-08318923
MISM1 08018900-08318923
MLRF1 08018900-08318923
MPCL1 08018900-08318923
NWPO3 08018900-08318923
PILM4 08018900-08318923
PTAC1 08018900-08318923
PTAT2 08018900-08318923
PTGC1 08018900-08318923-8
ROAM4 08018900-08318923
SAUF1 08018900-08318923
SBIO1 08018900-08318923
SGNW3 08018900-08318923
SISW1 08018900-08318923
SMKF1 08018900-08318923
SPGF1 08018900-08318923
SRST2 08018900-08318923
STDM4 08018900-08318923
SVLS1 08018900-08318923
TPLM2 08018900-08318923
TTIW1 08018900-08318923
VENF1 08018900-08318923
WPOW1 08018900-08318923-94



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 KEY 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>4090</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	312	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	312	Year, Month, Day (GMT)
OBSERVED TIME	23	4	Bytes	212	Hours, Minutes (GMT)
LATITUDE	27	6	Bytes	312	Degrees, Minutes, Seconds
LAT. HEMISPHERE	33	1	Byte	A1	"N" or "S" Hemisphere
LONGITUDE	34	7	Bytes	I3, 212	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 INSTITUTION	65	20	Bytes	A20	A20(optional) 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	312	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	312	Year, Month, Day (GMT)
OBSERVED TIME	23	4	Bytes	212	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	Temperature, 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

14. FIELD NAME	15. POSITION FROM-1 MEASURED IN (e.g. Min, byte)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
PRECIPITATION	55	4	Bytes	I4	Accumulation in millimeters
SOLAR RADIATION	59	3	Bytes	I3	Langleys/minute to hundredths wave length less than 3.6
SOLAR RADIATION	62	3	Bytes	I3	Langleys/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., Mo., 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

14. FIELD NAME	15. POSITION FROM-1 MEASURED IN (e.g., 100, 1000)	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 NAME File Type '191'

14. FIELD NAME	15. POSITION FROM-1 MEASURED IN (e.g. 00, byte)	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., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
CO AND QUAD SPECTRA FOR DIRECTIONAL WAVES					
FILE TYPE	1	3	Bytes	I3	Always "191"
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., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
ANGULAR COEFFICIENTS FOR DIRECTIONAL WAVES					
FILE TYPE	1	3	Bytes	I3	Always "191"
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., 0th, byte)	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 direct on 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. $C11S(M*W/HZ) = (C22+C33)/(K*K)$ 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., bits, 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 RECORD FORMAT DESCRIPTION

RECORD NAME _____

14. FIELD NAME	15. POSITION FROM-1 MEASURED IN _____ (e.g. bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
CONTINUOUS WIND MEASUREMENT (Cont'd)					
1 Expansion Parameter.					
2 Ten 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.					
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.					

F. MITCHELL

673-5643

E/OC13

SUBMITTED 10-4-89

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>A00976</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
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				PURGE DATE
	TAPE #/ DISKETTE	SLOT #	TRK	DENSITY	PARITY	LABEL TYPE	RECORD TYPE	RECORD LENGTH	MAX. BLOCK SIZE	# OF FILES	
OUTPUT	SECTOR SIZE	EXCHANGE TYPE	CODE: ASCII EBCDIC BCD SDF OTHER(SPECIFY)				DATA SET NAME				PURGE DATE

SPECIAL INSTRUCTIONS

PLEASE RETURN TAPE TO BIN-33

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>110646-3</u>	<u>10/04/89</u>	<u>1035</u>		<u>C</u>	<u>COMPLETED by FL</u>

REMARKS

8900248 AUG 89

F. MITCHELL

673 - 5643

E/OCB

SUBMITTED 10-4-89

33

ADDITIONAL INFORMATION 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	A00977		9	1600	0	NL	FB	120	4080	1	
	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
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

PLEASE RETURN TAPE TO BIN-33

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
910 8702	70/04/89	10:20	10:30	(1)	COMPLETED by FL

REMARKS

8900248 AUG 1989

F. MITCHELL

673 - 5643

E/OC13

DATE SUBMITTED 10-4-89

33

EQUIPMENT 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	
<u>A00978</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
PLEASE RETURN TAPE TO BIN-33

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>7100405</u>	<u>10/04/89</u>	<u>1010</u>	<u>1015</u>	<u>C</u>	<u>COMPLETED by FL</u>

REMARKS

8900248 AUG 1989

Password:

accNo	fleA	refNo	proj	inst	ship	startDate	cruise	catId
8900248	F291	BR8425	9999	313B	317F	1989/08/01	SRST2	188876
8900248	F291	BR8426	9999	313B	317F	1989/08/01	STDM4	188877
8900248	F291	BR8427	9999	313B	317F	1989/08/01	SVLS1	188878
8900248	F291	BR8428	9999	313B	317F	1989/08/01	TPLM2	188879
8900248	F291	BR8429	9999	313B	317F	1989/08/01	TTIW1	188880
8900248	F291	BR8430	9999	313B	317F	1989/08/01	VENF1	188881
8900248	F291	BR8431	9999	313B	317F	1989/08/01	WPOW1	188882
8900248	F291	BR8338	9999	313B	317F	1989/08/01	32302	188789
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