

ACCESS NUMBER	REF NUMBER	FILE TYPE	PROJ CODE	INST	PLAT	CRUISE NO	CRUISE START	CRUISE END	NUM STA	NUM REC
9000019	BR8723	F191		313B	317F	32302	12/01/89	12/31/89	1	6,504
9000019	BR8724	F191		313B	317F	41001	12/01/89	12/17/89	1	752
9000019	BR8725	F191		313B	317F	41002	12/01/89	12/05/89	1	1,125
9000019	BR8726	F191		313B	317F	41008	12/01/89	12/31/89	1	44,109
9000019	BR8727	F191		313B	317F	41009	12/12/89	12/31/89	1	9,352
9000019	BR8728	F191		313B	317F	41010	12/01/89	12/31/89	1	14,694
9000019	BR8729	F191		313B	317F	42001	12/01/89	12/31/89	1	8,072
9000019	BR8730	F191		313B	317F	42002	12/01/89	12/31/89	1	8,120
9000019	BR8731	F191		313B	317F	42003	12/01/89	12/31/89	1	8,078
9000019	BR8732	F191		313B	317F	42007	12/01/89	12/31/89	1	8,013
9000019	BR8733	F191		313B	317F	42015	12/01/89	12/31/89	1	44,548
9000019	BR8734	F191		313B	317F	44004	12/01/89	12/31/89	1	6,876
9000019	BR8735	F191		313B	317F	44005	12/01/89	12/08/89	1	116
9000019	BR8736	F191		313B	317F	44007	12/01/89	12/31/89	1	6,894
9000019	BR8737	F191		313B	317F	44008	12/01/89	12/31/89	1	8,041

ACCESS NUMBER	REF NUMBER	FILE TYPE	PROJ CODE	INST	PLAT	CRUISE NO	CRUISE START	CRUISE END	NUM STA	NUM REC
9000019	BR8738	F191		313B	317F	44009	12/01/89	12/31/89	1	7,232
9000019	BR8739	F191		313B	317F	44011	12/01/89	12/31/89	1	4,508
9000019	BR8740	F191		313B	317F	44013	12/01/89	12/31/89	1	7,348
9000019	BR8741	F191		313B	317F	45001	12/01/89	12/01/89	1	222
9000019	BR8742	F191		313B	317F	45003	12/01/89	12/12/89	1	2,676
9000019	BR8743	F191		313B	317F	45004	12/01/89	12/03/89	1	688
9000019	BR8744	F191		313B	317F	45006	12/01/89	12/01/89	1	120
9000019	BR8745	F191		313B	317F	46001	12/01/89	12/31/89	1	8,870
9000019	BR8746	F191		313B	317F	46002	12/01/89	12/31/89	1	8,840
9000019	BR8747	F191		313B	317F	46003	12/01/89	12/31/89	1	7,340
9000019	BR8748	F191		313B	317F	46005	12/01/89	12/31/89	1	8,806
9000019	BR8749	F191		313B	317F	46006	12/01/89	12/31/89	1	7,925
9000019	BR8750	F191		313B	317F	46010	12/01/89	12/31/89	1	7,328
9000019	BR8751	F191		313B	317F	46012	12/01/89	12/31/89	1	7,354
9000019	BR8752	F191		313B	317F	46013	12/01/89	12/31/89	1	5,278
9000019	BR8753	F191		313B	317F	46014	12/01/89	12/31/89	1	8,848
9000019	BR8754	F191		313B	317F	46022	12/01/89	12/31/89	1	8,808
9000019	BR8755	F191		313B	317F	46023	12/01/89	12/31/89	1	7,358
9000019	BR8756	F191		313B	317F	46025	12/01/89	12/31/89	1	8,818
9000019	BR8757	F191		313B	317F	46026	12/01/89	12/31/89	1	7,310
9000019	BR8758	F191		313B	317F	46027	12/01/89	12/31/89	1	7,114
9000019	BR8759	F191		313B	317F	46028	12/01/89	12/31/89	1	8,830
9000019	BR8760	F191		313B	317F	46030	12/01/89	12/31/89	1	7,366
9000019	BR8761	F191		313B	317F	46035	12/01/89	12/31/89	1	7,991
9000019	BR8762	F191		313B	317F	46040	12/01/89	12/31/89	1	7,318

ACCESS NUMBER	REF NUMBER	FILE TYPE	PROJ CODE	INST	PLAT	CRUISE NO	CRUISE START	CRUISE END	NUM STA	NUM REC
9000019	BR8763	F191		313B	317F	46041	12/01/89	12/31/89	1	7,248
9000019	BR8764	F191		313B	317F	46042	12/01/89	12/31/89	1	44,900
9000019	BR8765	F191		313B	317F	51001	12/01/89	12/31/89	1	8,872
9000019	BR8766	F191		313B	317F	51002	12/01/89	12/31/89	1	8,848
9000019	BR8767	F191		313B	317F	51003	12/01/89	12/31/89	1	4,938
9000019	BR8768	F191		313B	317F	51004	12/01/89	12/31/89	1	8,862
9000019	BR8769	F191		313B	317F	ALSN6	12/01/89	12/31/89	1	4,226
9000019	BR8770	F191		313B	317F	BURL1	12/01/89	12/31/89	1	2,210
9000019	BR8771	F191		313B	317F	BUZM3	12/01/89	12/31/89	1	1,472
9000019	BR8772	F191		313B	317F	CARO3	12/01/89	12/31/89	1	1,478
9000019	BR8773	F191		313B	317F	CHLV2	12/01/89	12/31/89	1	7,340
9000019	BR8774	F191		313B	317F	CLKN7	12/01/89	12/31/89	1	2,209
9000019	BR8775	F191		313B	317F	CSBF1	12/01/89	12/31/89	1	2,203
9000019	BR8776	F191		313B	317F	DBLN6	12/01/89	12/31/89	1	1,466
9000019	BR8777	F191		313B	317F	DESW1	12/01/89	12/31/89	1	1,476
9000019	BR8778	F191		313B	317F	DISW3	12/01/89	12/31/89	1	1,470
9000019	BR8779	F191		313B	317F	DP1A1	12/01/89	12/31/89	1	1,480
9000019	BR8780	F191		313B	317F	DSL7	12/01/89	12/31/89	1	6,776
9000019	BR8781	F191		313B	317F	ENIP2	12/01/89	12/31/89	1	1,474
9000019	BR8782	F191		313B	317F	FARP2	12/01/89	12/31/89	1	1,142
9000019	BR8783	F191		313B	317F	FBIS1	12/01/89	12/31/89	1	1,476
9000019	BR8784	F191		313B	317F	FFIA2	12/01/89	12/31/89	1	1,476
9000019	BR8785	F191		313B	317F	FPSN7	12/01/89	12/31/89	1	2,208
9000019	BR8786	F191		313B	317F	GBCL1	12/01/89	12/31/89	1	1,478
9000019	BR8787	F191		313B	317F	GDIL1	12/01/89	12/31/89	1	2,180
9000019	BR8788	F191		313B	317F	GLLN6	12/01/89	12/31/89	1	1,452
9000019	BR8789	F191		313B	317F	IOSN3	12/01/89	12/31/89	1	1,476
9000019	BR8790	F191		313B	317F	LKWF1	12/01/89	12/31/89	1	1,468
9000019	BR8791	F191		313B	317F	MDRM1	12/01/89	12/31/89	1	1,476
9000019	BR8792	F191		313B	317F	MISM1	12/01/89	12/31/89	1	1,478
9000019	BR8793	F191		313B	317F	MLRF1	12/01/89	12/31/89	1	1,476
9000019	BR8794	F191		313B	317F	MPCL1	12/01/89	12/31/89	1	1,368
9000019	BR8795	F191		313B	317F	NWPO3	12/01/89	12/31/89	1	1,226
9000019	BR8796	F191		313B	317F	PILM4	12/01/89	12/31/89	1	1,474
9000019	BR8797	F191		313B	317F	PTAC1	12/01/89	12/31/89	1	1,478
9000019	BR8798	F191		313B	317F	PTAT2	12/01/89	12/31/89	1	1,478
9000019	BR8799	F191		313B	317F	PTGC1	12/01/89	12/31/89	1	1,480
9000019	BR8800	F191		313B	317F	ROAM4	12/01/89	12/31/89	1	1,246
9000019	BR8801	F191		313B	317F	SAUF1	12/01/89	12/31/89	1	1,975
9000019	BR8802	F191		313B	317F	SBIO1	12/01/89	12/31/89	1	1,414
9000019	BR8803	F191		313B	317F	SGNW3	12/01/89	12/31/89	1	1,480
9000019	BR8804	F191		313B	317F	SISW1	12/01/89	12/31/89	1	1,474
9000019	BR8805	F191		313B	317F	SMKF1	12/19/89	12/31/89	1	580
9000019	BR8806	F191		313B	317F	SPGF1	12/01/89	12/31/89	1	2,205
9000019	BR8807	F191		313B	317F	SRST2	12/01/89	12/31/89	1	2,208
9000019	BR8808	F191		313B	317F	STDMA	12/01/89	12/31/89	1	1,476
9000019	BR8809	F191		313B	317F	SVLS1	12/01/89	12/31/89	1	1,478
9000019	BR8810	F191		313B	317F	TPLM2	12/01/89	12/31/89	1	1,474
9000019	BR8811	F191		313B	317F	TTIW1	12/01/89	12/31/89	1	1,476
9000019	BR8812	F191		313B	317F	UJAP2	12/01/89	12/31/89	1	1,472
9000019	BR8813	F191		313B	317F	VENF1	12/01/89	12/31/89	1	1,472

000019 BR8814 F191

313B 317F WPOW1

12/01/89 12/31/89

1 1,386

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ACCESSION NO. 9000019

FILETYPE F191

TRACK NO. BR8723 - 8737

PROJECT IDENTIFICATION \_\_\_\_\_

STEP	DATE	INIT.	TAPE OR DISK DSN	NO. FILES	RECL	BLK SIZE	NO. RECORDS
ORIG. TAPE	2-16-90	C.M.H.	A 1073 *	1	120	4080	175,270
DUPLICATE TAPE	3-30-90	F.J.M.	W 08133 *	1	120	4800	175,294
REFORMATTED TAPE							
REFORMATTED DISK							
FIRST MULCHEK							
FINAL MULCHEK							
MPD75 OR F022							
DATA SET FINALIZED							

ERRORS REPORTED TO PRINCIPAL INVESTIGATOR:

\* = NO LABEL, 1600 b.p.c

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

COMMENTS (TRACKS DELETED, FIELDS DELETED, ETC.)

D191P

ACCESSION NO. 90 00019

FILETYPE F191

TRACK NO. \_\_\_\_\_

PROJECT IDENTIFICATION \_\_\_\_\_

BR 8738-8762

STEP	DATE	INIT.	TAPE OR DISK DSN	NO. FILES	LRCL	BLK SIZE	NO. RECORDS
ORIG. TAPE	2-16-90	C.M.H.	A01074 *	1	120	4080	164,322
DUPLICATE TAPE	4-9-90	FJM	W08248	1	120	4800	164,296
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

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

COMMENTS (TRACKS DELETED, FIELDS DELETED, ETC.)

D191P

ACCESSION NO. 90 00019

FILETYPE F191

TRACK NO. \_\_\_\_\_

PROJECT IDENTIFICATION \_\_\_\_\_

STEP	DATE	INIT.	TAPE OR DISK DSN	NO. FILES	RECL	BLK SIZE	NO. RECORDS
ORIG. TAPE	2-16-90	C.M.H.	AΦ 1Φ75 *	1	120	4080	169,048
DUPLICATE TAPE	4-12-90	FJM	W08897 *	1	120	4800	169,054
REFORMATTED TAPE							
REFORMATTED DISK							
FIRST MULCHEK							
FINAL MULCHEK							
MPD75 OR F022							
DATA SET FINALIZED							

ERRORS REPORTED TO PRINCIPAL INVESTIGATOR:

\* = NO LABEL, 1600b.p.i

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

COMMENTS (TRACKS DELETED, FIELDS DELETED, ETC.)

D191P

Please scan tape

INPUT MEDIUM PAPER    CARD    DISK <b>TAPE</b> DISKETTE    OTHER(SPECIFY)	OUTPUT MEDIUM CARD    DISK <b>PRINT</b> 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	A01073		9	1600					4080
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  <p style="font-size: 1.2em; font-family: cursive;">Please return tape A01073 to Bin 09.</p>	ESTIMATED EXECUTION TIME
---	--------------------------------

D731 USE ONLY					
JOB #	DATE JOB COMPLETED	START TIME	END TIME	PRIORITY	DEVICES USED, NUMBER OF TAPE MOUNTS, LINES PRINTED DISKETTES USED, CARDS PUNCHED, CARDS KEYVERIFIED
90020102	2-16-90	12:25	12:30	C	COMPLETED BY J.S.

COMMENTS

Cliff Hartley

673-5636

EG1300 SN3AH9

SUBMITTED

ASAP

09

EQUIPMENT TO BE USED AND FUNCTION TO BE PERFORMED

01/31/90

Please scan tape

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	A01074		9	1600					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 TYPE	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 A01074 to Bin 09

ESTIMATED  
EXECUTION  
TIME

D731 USE ONLY

JOB #	DATE JOB COMPLETED	START TIME	END TIME	PRIORITY	DEVICES USED, NUMBER OF TAPE MOUNTS, LINES PRINTED DISKETTES USED, CARDS PUNCHED, CARDS KEYVERIFIED
90020103	2-16-90	12:20	12:24	C	COMPLETED BY J.S.

COMMENTS

Cliff Hartley

673-5636 EG1300 8N3AH-9

SUBMITTED

~~12/17~~ ASAP 09

EQUIPMENT TO BE USED AND FUNCTION TO BE PERFORMED

01/31/90

Please scan tape

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	A01075		9	1600					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 TYPE	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 A01075 to Bin 09

ESTIMATED  
EXECUTION  
TIME

D731 USE ONLY

JOB #	DATE JOB COMPLETED	START TIME	END TIME	PRIORITY	DEVICES USED, NUMBER OF TAPE MOUNTS, LINES PRINTED DISKETTES USED, CARDS PUNCHED, CARDS KEYVERIFIED
90020104	2-16-90	12:10	12:15	C	COMPLETED BY J.S.

COMMENTS



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

January 31, 1990

F1804-02  
DB3:89-0014  
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:

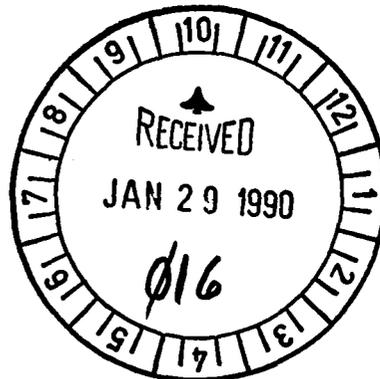
Enclosed are the December 1989, 9TK, 1600 BPI, archive tapes, recorded in the 191 tape format. The enclosure contains a list of stations and the inclusive dates that are on each tape.

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



*92 Buoy*



Attachment

Tape 1: 32302 12018900-12318923  
41001 12018900-12178900  
41002 12018900-12058906  
41008 12018900-12318923  
41009 12128906-12318923  
41010 12018900-12318923  
42001 12018900-12318923  
42002 12018900-12318923  
42003 12018900-12318923  
42007 12018900-12318923  
42015 12018900-12318923  
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44007 12018900-12318923  
44008 12018900-12318923

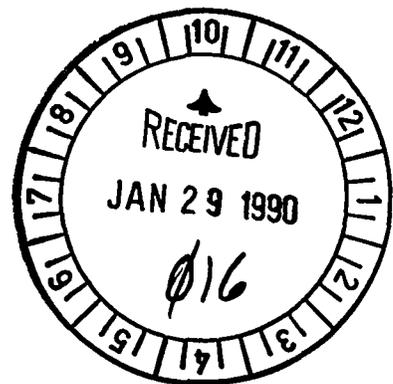
-15

Tape 2: 44009 12018900-12318923  
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44013 12018900-12318923  
45001 12018900-12018922  
45003 12018900-12128906  
45004 12018900-12038923  
45006 12018900-12018911  
46001 12018900-12318923  
46002 12018900-12318923  
46003 12018900-12318923  
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-10

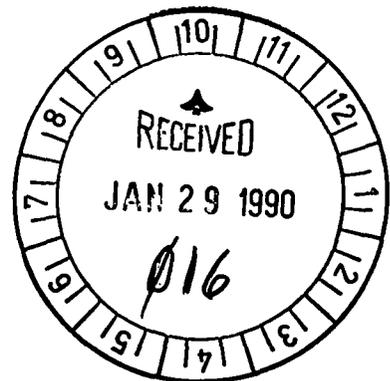
-20

-25



Tape 3: 46041 12018900-12318923  
46042 12018900-12318923  
51001 12018900-12318923  
51002 12018900-12318923

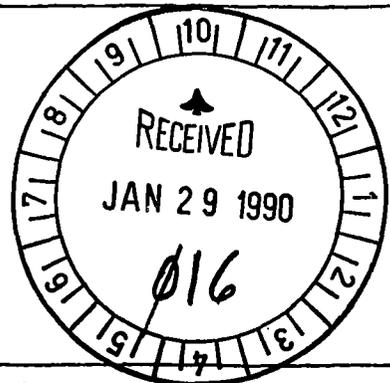
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 51004 12018900-12318923  
 ALSN6 12018900-12318923  
 BURL1 12018900-12318923  
 BUZM3 12018900-12318923  
 CARO3 12018900-12318923-10  
 CHLV2 12018900-12318923  
 CLKN7 12018900-12318923  
 CSBF1 12018900-12318923  
 DBLN6 12018900-12318923  
 DESW1 12018900-12318923  
 DISW3 12018900-12318923  
 DPIA1 12018900-12318923  
 DSLN7 12018900-12318923  
 ENIP2 12018900-12318923  
 FARP2 12018900-12318923-20  
 FBIS1 12018900-12318923  
 FFIA2 12018900-12318923  
 FPSN7 12018900-12318923  
 GBCL1 12018900-12318923  
 GDIL1 12018900-12318923  
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 MPCL1 12018900-12318923  
 NWPO3 12018900-12318923  
 PILM4 12018900-12318923  
 PTAC1 12018900-12318923  
 PTAT2 12018900-12318923  
 PTGC1 12018900-12318923  
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 SBIO1 12018900-12318923-40  
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 SMKFI 12198921-12318923  
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 SRST2 12018900-12318923  
 STDM4 12018900-12318923  
 SVLS1 12018900-12318923  
 TPLM2 12018900-12318923  
 TTIW1 12018900-12318923  
 UJAP2 12018900-12318923  
 VENF1 12018900-12318923  
 WPOW1 12018900-12318923-52 ✓



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 style="text-align: center;">4080</p> <p>13. LENGTH OF BYTES IN BITS</p> <p style="text-align: center;">8</p>

RECORD FORMAT DESCRIPTION

RECORD NAME

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

14. FIELD NAME	15. POSITION FROM-1 MEASURED IN (e.g., 5th, byte)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
<b>DESCRIPTIVE HEADER RECORD</b>					
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
<b>ENVIRONMENTAL DATA RECORD</b>					
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

14. FIELD NAME	15. POSITION FROM-1 MEASURED IN (e.g., 100, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		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.					
<b>WAVE SPECTRA DATA RECORD</b>					
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 (No., Min., Bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
<b>WAVE SPECTRA DATA RECORD (cont'd)</b>					
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 <sup>2</sup> /Hz to thousandths
BLANKS	105	16	Bytes	16X	Fill the fixed length record
<b>SUBSURFACE TEMPERATURE DATA RECORD</b>					
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
<b>SUBSURFACE DATA RECORD</b>					
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)

14. FIELD NAME	15. POSITION FROM-1 MEASURED IN (e.g., Mts, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
<b>SUBSURFACE DATA RECORD (cont'd)</b>					
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 <sup>2</sup> 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		
<b>CO AND QUAD SPECTRA FOR DIRECTIONAL WAVES</b>					
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 <sub>11</sub>	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 <sub>11</sub> , C <sub>22</sub> , C <sub>33</sub> , C <sub>12</sub> , Q <sub>12</sub> , C <sub>13</sub> , Q <sub>13</sub> , C <sub>23</sub> , and Q <sub>23</sub>
EXPONENT	42	2	Bytes	I2	Where subscripts are defined as follows:
CO-SPECTRA C <sub>22</sub>	44	6	Bytes	I6	1. Heave
EXPONENT	50	2	Bytes	I2	2. E-W Slope
CO-SPECTRA C <sub>33</sub>	52	6	Bytes	I6	3. N-S Slope
EXPONENT	58	2	Bytes	I2	
CO-SPECTRA C <sub>12</sub>	60	6	Bytes	I6	
EXPONENT	66	2	Bytes	I2	
QUAD-SPECTRA Q <sub>12</sub>	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 <sub>13</sub>	76	6	Bytes	I6	
EXPONENT	82	2	Bytes	I2	
QUAD-SPECTRA Q <sub>13</sub>	84	6	Bytes	I6	
EXPONENT	90	2	Bytes	I2	
CO-SPECTRA C <sub>23</sub>	92	6	Bytes	I6	
EXPONENT	98	2	Bytes	I2	
QUAD-SPECTRA Q <sub>23</sub>	100	6	Bytes	I6	
EXPONENT	106	2	Bytes	I2	
C <sub>22</sub> - C <sub>33</sub>	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., Mb, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
<b>ANGULAR COEFFICIENTS FOR DIRECTIONAL WAVES</b>					
FILE TYPE	1	3	Bytes	13	Always "191"
FILE DATE	4	6	Bytes	312	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	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 <sup>2</sup> /Hz. The order of these coefficients is: a <sub>0</sub> , a <sub>1</sub> , b <sub>1</sub> , a <sub>2</sub> , b <sub>2</sub> , a <sub>3</sub> , b <sub>3</sub> , a <sub>4</sub> , b <sub>4</sub>
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)
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		
<b>DIRECTIONAL WAVE DATA RECORD</b>					
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	"8" (Directional Wave Data Record)
STATION	11	6	Bytes	A6	Inique name of observation point
OBSERVED DATE	17	6	Bytes	312	Year, Month, Day (GMT)
OBSERVED TIME	23	4	Bytes	212	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. bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
<b>CONTINUOUS WIND MEASUREMENT</b>					
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 <sup>1</sup>	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 <sup>2</sup>	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 _____ <small>(e.g., bits, bytes)</small>	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
<b>CONTINUOUS WIND MEASUREMENT (Cont'd)</b>					
<p><sup>1</sup>Expansion Parameter.</p> <p><sup>2</sup>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.</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>					

Password:

accNo	fleA	refNo	proj	inst	ship	startDate	cruise	catId
9000019	F291	BR8723	9999	313B	317F	1989/12/01	32302	190123
9000019	F291	BR8724	9999	313B	317F	1989/12/01	41001	190124
9000019	F291	BR8725	9999	313B	317F	1989/12/01	41002	190125
9000019	F291	BR8726	9999	313B	317F	1989/12/01	41008	190126
9000019	F291	BR8727	9999	313B	317F	1989/12/12	41009	190127
9000019	F291	BR8728	9999	313B	317F	1989/12/01	41010	190128
9000019	F291	BR8729	9999	313B	317F	1989/12/01	42001	190129
9000019	F291	BR8730	9999	313B	317F	1989/12/01	42002	190130
9000019	F291	BR8731	9999	313B	317F	1989/12/01	42003	190131
9000019	F291	BR8732	9999	313B	317F	1989/12/01	42007	190132
9000019	F291	BR8733	9999	313B	317F	1989/12/01	42015	190133
9000019	F291	BR8734	9999	313B	317F	1989/12/01	44004	190134
9000019	F291	BR8735	9999	313B	317F	1989/12/01	44005	190135
9000019	F291	BR8736	9999	313B	317F	1989/12/01	44007	190136
9000019	F291	BR8737	9999	313B	317F	1989/12/01	44008	190137
9000019	F291	BR8738	9999	313B	317F	1989/12/01	44009	190138
9000019	F291	BR8739	9999	313B	317F	1989/12/01	44011	190139
9000019	F291	BR8740	9999	313B	317F	1989/12/01	44013	190140
9000019	F291	BR8741	9999	313B	317F	1989/12/01	45001	190141
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