

ACCESS NUMBER	REF NUMBER	FILE TYPE	PROJ CODE	INST	PLAT	CRUISE NO	CRUISE START	CRUISE END	NUM STA	NUM REC
9100055	BS0001	F191		313B	317F	41001	01/01/91	01/31/91	1	8,131
9100055	BS0002	F191		313B	317F	41002	01/01/91	01/31/91	1	8,908
9100055	BS0003	F191		313B	317F	41006	01/01/91	01/31/91	1	8,176
9100055	BS0004	F191		313B	317F	41008	01/01/91	01/31/91	1	45,264
9100055	BS0005	F191		313B	317F	41009	01/01/91	01/31/91	1	14,844
9100055	BS0006	F191		313B	317F	41010	01/01/91	01/31/91	1	14,826
9100055	BS0007	F191		313B	317F	42001	01/01/91	01/31/91	1	8,163
9100055	BS0008	F191		313B	317F	42002	01/01/91	01/31/91	1	8,105
9100055	BS0009	F191		313B	317F	42003	01/01/91	01/31/91	1	8,162
9100055	BS0010	F191		313B	317F	42007	01/01/91	01/31/91	1	2,232
9100055	BS0011	F191		313B	317F	42019	01/01/91	01/31/91	1	7,440
9100055	BS0012	F191		313B	317F	42020	01/01/91	01/31/91	1	7,430
9100055	BS0013	F191		313B	317F	44001	01/01/91	01/31/91	1	44,908
9100055	BS0014	F191		313B	317F	44004	01/01/91	01/31/91	1	8,159
9100055	BS0015	F191		313B	317F	44005	01/01/91	01/31/91	1	8,155
9100055	BS0016	F191		313B	317F	44007	01/01/91	01/31/91	1	7,424
9100055	BS0017	F191		313B	317F	44008	01/01/91	01/31/91	1	8,155

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218,482

ACCESS NUMBER	REF NUMBER	FILE TYPE	PROJ CODE	INST	PLAT	CRUISE NO	CRUISE START	CRUISE END	NUM STA	NUM REC
9100055	BS0018	F191		313B	317F	44009	01/01/91	01/31/91	1	7,368
9100055	BS0019	F191		313B	317F	44011	01/01/91	01/31/91	1	4,942
9100055	BS0020	F191		313B	317F	44012	01/01/91	01/31/91	1	7,398
9100055	BS0021	F191		313B	317F	44013	01/01/91	01/31/91	1	7,420
9100055	BS0022	F191		313B	317F	44014	01/01/91	01/31/91	1	45,144
9100055	BS0023	F191		313B	317F	44015	01/01/91	01/31/91	1	37,960
9100055	BS0024	F191		313B	317F	44023	01/14/91	01/31/91	1	24,194
9100055	BS0025	F191		313B	317F	45002	01/01/91	01/31/91	1	8,916
9100055	BS0026	F191		313B	317F	45004	01/01/91	01/31/91	1	8,852
9100055	BS0027	F191		313B	317F	46001	01/01/91	01/31/91	1	8,134
9100055	BS0028	F191		313B	317F	46002	01/01/91	01/31/91	1	8,155
9100055	BS0029	F191		313B	317F	46003	01/01/91	01/31/91	1	8,164
9100055	BS0030	F191		313B	317F	46005	01/04/91	01/27/91	1	5,712
9100055	BS0031	F191		313B	317F	46006	01/01/91	01/13/91	1	2,594
9100055	BS0032	F191		313B	317F	46010	01/01/91	01/31/91	1	7,430
9100055	BS0033	F191		313B	317F	46011	01/01/91	01/31/91	1	8,901

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201,284

ACCESS NUMBER	REF NUMBER	FILE TYPE	PROJ CODE	INST	PLAT	CRUISE NO	CRUISE START	CRUISE END	NUM STA	NUM REC
9100055	BS0034	F191		313B	317F	46012	01/01/91	01/31/91	1	8,882
9100055	BS0035	F191		313B	317F	46013	01/01/91	01/31/91	1	8,880
9100055	BS0036	F191		313B	317F	46014	01/01/91	01/31/91	1	8,894
9100055	BS0037	F191		313B	317F	46023	01/01/91	01/31/91	1	8,884
9100055	BS0038	F191		313B	317F	46025	01/01/91	01/31/91	1	8,906
9100055	BS0039	F191		313B	317F	46026	01/01/91	01/31/91	1	7,410
9100055	BS0040	F191		313B	317F	46027	01/01/91	01/31/91	1	7,360
9100055	BS0041	F191		313B	317F	46028	01/01/91	01/31/91	1	8,916
9100055	BS0042	F191		313B	317F	46035	01/01/91	01/31/91	1	8,128
9100055	BS0043	F191		313B	317F	46042	01/01/91	01/31/91	1	45,325
9100055	BS0044	F191		313B	317F	46045	01/30/91	01/31/91	1	1,527
9100055	BS0045	F191		313B	317F	51001	01/01/91	01/31/91	1	8,904
9100055	BS0046	F191		313B	317F	51002	01/16/91	01/31/91	1	4,584
9100055	BS0047	F191		313B	317F	51003	01/01/91	01/31/91	1	8,902

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145,502

ACCESS NUMBER	REF NUMBER	FILE TYPE	PROJ CODE	INST	PLAT	CRUISE NO	CRUISE START	CRUISE END	NUM STA	NUM REC
9100055	BS0048	F191		313B	317F	ALSN6	01/01/91	01/31/91	1	6,036
9100055	BS0049	F191		313B	317F	BURL1	01/01/91	01/31/91	1	2,229
9100055	BS0050	F191		313B	317F	BUSL1	01/11/91	01/31/91	1	934
9100055	BS0051	F191		313B	317F	BUZM3	01/01/91	01/31/91	1	3,806
9100055	BS0052	F191		313B	317F	CARO3	01/01/91	01/31/91	1	1,488
9100055	BS0053	F191		313B	317F	CHLV2	01/01/91	01/31/91	1	8,023
9100055	BS0054	F191		313B	317F	CLKN7	01/01/91	01/31/91	1	2,232
9100055	BS0055	F191		313B	317F	CSBF1	01/01/91	01/31/91	1	2,222
9100055	BS0056	F191		313B	317F	DBLN6	01/01/91	01/31/91	1	1,474
9100055	BS0057	F191		313B	317F	DESW1	01/01/91	01/31/91	1	1,486
9100055	BS0058	F191		313B	317F	DISW3	01/01/91	01/31/91	1	1,482
9100055	BS0059	F191		313B	317F	DPIA1	01/01/91	01/31/91	1	1,488
9100055	BS0060	F191		313B	317F	DSL7	01/01/91	01/31/91	1	7,880
9100055	BS0061	F191		313B	317F	ENIP2	01/01/91	01/31/91	1	1,484
9100055	BS0062	F191		313B	317F	FBIS1	01/01/91	01/31/91	1	1,488
9100055	BS0063	F191		313B	317F	FFIA2	01/01/91	01/31/91	1	1,486
9100055	BS0064	F191		313B	317F	FPSN7	01/01/91	01/31/91	1	2,232
9100055	BS0065	F191		313B	317F	GBCL1	01/01/91	01/31/91	1	7,386
9100055	BS0066	F191		313B	317F	GDIL1	01/01/91	01/31/91	1	2,231
9100055	BS0067	F191		313B	317F	GLLN6	01/01/91	01/31/91	1	1,478
9100055	BS0068	F191		313B	317F	IOSN3	01/01/91	01/31/91	1	1,416
9100055	BS0069	F191		313B	317F	KOSP2	01/01/91	01/31/91	1	1,480
9100055	BS0070	F191		313B	317F	LKWF1	01/01/91	01/31/91	1	2,201
9100055	BS0071	F191		313B	317F	MDRM1	01/01/91	01/31/91	1	1,484
9100055	BS0072	F191		313B	317F	MISM1	01/01/91	01/31/91	1	984
9100055	BS0073	F191		313B	317F	MLIP2	01/01/91	01/31/91	1	1,484
9100055	BS0074	F191		313B	317F	MLRF1	01/01/91	01/31/91	1	1,474
9100055	BS0075	F191		313B	317F	MPCL1	01/01/91	01/31/91	1	7,764
9100055	BS0076	F191		313B	317F	NWPO3	01/01/91	01/31/91	1	1,488
9100055	BS0077	F191		313B	317F	PAGP2	01/01/91	01/31/91	1	1,486
9100055	BS0078	F191		313B	317F	PILM4	01/01/91	01/31/91	1	1,474
9100055	BS0079	F191		313B	317F	PTAC1	01/01/91	01/31/91	1	1,486
9100055	BS0080	F191		313B	317F	PTAT2	01/01/91	01/31/91	1	2,231
9100055	BS0081	F191		313B	317F	PTGC1	01/01/91	01/31/91	1	1,484
9100055	BS0082	F191		313B	317F	ROAM4	01/01/91	01/31/91	1	1,280
9100055	BS0083	F191		313B	317F	SANF1	01/12/91	01/31/91	1	1,403
9100055	BS0084	F191		313B	317F	SAUF1	01/01/91	01/31/91	1	2,195
9100055	BS0085	F191		313B	317F	SBIO1	01/01/91	01/31/91	1	1,478
9100055	BS0086	F191		313B	317F	SGNW3	01/01/91	01/31/91	1	1,478
9100055	BS0087	F191		313B	317F	SISW1	01/01/91	01/31/91	1	1,486
9100055	BS0088	F191		313B	317F	SMKF1	01/01/91	01/31/91	1	1,458
9100055	BS0089	F191		313B	317F	SPGF1	01/01/91	01/31/91	1	2,184
9100055	BS0090	F191		313B	317F	SRST2	01/01/91	01/31/91	1	2,231
9100055	BS0091	F191		313B	317F	STDM4	01/01/91	01/31/91	1	1,478
9100055	BS0092	F191		313B	317F	SVLS1	01/01/91	01/31/91	1	7,697
9100055	BS0093	F191		313B	317F	TPLM2	01/01/91	01/31/91	1	2,204
9100055	BS0094	F191		313B	317F	TTIW1	01/01/91	01/31/91	1	1,488
9100055	BS0095	F191		313B	317F	UJAP2	01/01/91	01/31/91	1	1,488
9100055	BS0096	F191		313B	317F	VENF1	01/01/91	01/31/91	1	1,958
9100055	BS0097	F191		313B	317F	WPOW1	01/01/91	01/31/91	1	1,499

50 119, 506

ACCESSION NO. 9100055 FILETYPE F191

TRACK NO. BS0001 -  
350017 PROJECT IDENTIFICATION \_\_\_\_\_

218,450

STEP	DATE	INIT.	TAPE OR DISK DSN	NO. FILES	RECL	BLK SIZE	NO. RECORDS
ORIG. TAPE	3-12-91	CMH.	A01381 *	1	120	4080	<del>687760</del>
DUPLICATE TAPE	5-31-91	FJM	W18782 **	1	120	4800	218,482
REFORMATTED TAPE							
REFORMATTED DISK							
FIRST MULCHEK							
FINAL MULCHEK							
MPD75 OR F022							
DATA SET FINALIZED							

ERRORS REPORTED TO PRINCIPAL INVESTIGATOR:

\* = NL, 1600 B.P.L.

\*\* NL, ~~6000~~ B.P.I.  
1600

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

COMMENTS (TRACKS DELETED, FIELDS DELETED, ETC.)

ACCESSION NO. 9100055

FILETYPE F191

TRACK NO. BS0018-

BS0033

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

STEP	DATE	INIT.	TAPE OR DISK DSN	NO. FILES	LRECL	BLK SIZE	NO. RECORDS
ORIG. TAPE	3-12-91	C.M.H.	A 01382 *	1	120	4080	20,280
DUPLICATE TAPE	6-14-91	FJM	W18785 *K	1	120	4800	20,284
REFORMATTED TAPE			bulled				
REFORMATTED DISK							
FIRST MULCHEK							
FINAL MULCHEK							
MPD75 OR F022							
DATA SET FINALIZED							

ERRORS REPORTED TO PRINCIPAL INVESTIGATOR: <sup>?????A</sup>

\* = NL, 1600 B.P.I.  
 \*\* = NL, ~~1600~~ B.P.I. ~~1600~~

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

COMMENTS (TRACKS DELETED, FIELDS DELETED, ETC.)

ACCESSION NO. 9100055

FILETYPE F191

TRACK NO. BS0034-

47

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

STEP	DATE	INIT.	TAPE OR DISK DSN	NO. FILES	LRECL	BLK SIZE	NO. RECORDS
ORIG. TAPE	3-12-91	CMH	A01383 *	1	120	4080	145,520
DUPLICATE TAPE	6-26-91	FJM	W18788 **	1	120	4800	145,502
REFORMATTED TAPE			Pulled				
REFORMATTED DISK							
FIRST MULCHEK							
FINAL MULCHEK							
MPD75 OR F022							
DATA SET FINALIZED							

ERRORS REPORTED TO PRINCIPAL INVESTIGATOR:

\* 1600 B.P.I., NL  
 \*\* 6250, B.P.I., NL

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

COMMENTS (TRACKS DELETED, FIELDS DELETED, ETC.)

ACCESSION NO. 9100055 FILETYPE F191

TRACK NO. BS0048-97

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

STEP	DATE	INIT.	TAPE OR DISK DSN	NO. FILES	LRCL	BLK SIZE	NO. RECORDS
ORIG. TAPE	3-12-91	CMH.	A01384 *	1	120	4080	119,50
DUPLICATE TAPE	7-3-91	FJM	W18794 *	1	120	4800	119,506
REFORMATTED TAPE							
REFORMATTED DISK							
FIRST MULCHEK							
FINAL MULCHEK							
MPD75 OR F022							
DATA SET FINALIZED							

ERRORS REPORTED TO PRINCIPAL INVESTIGATOR:

\* = NL, 6250 B.P.I.

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

COMMENTS (TRACKS DELETED, FIELDS DELETED, ETC.)



9100055

FILETYPE F191

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

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

	DATE	INIT.	TAPE OR DISK DSN	NO. FILES	RECL	BLK SIZE	NO. RECORDS
	03/2/91	cm14	AΦ1381	1	120	4080	218,450
	↓	↓	AΦ1382	1	120	4080	201,280
TAPE	↓	↓	AΦ1383	1	120	4080	145,520
TAPE	↓	↓	AΦ1384	1	120	4080	119,510
DISK							
MEM							
MEM							
022							
FINALIZED							

REPORTED TO PRINCIPAL INVESTIGATOR: Tapes AΦ1381, AΦ1382, AΦ1383 are 9 TRK, NL, 1600 bpi.  
 Tape AΦ1384 is 9 TRK, NL, 6250 bpi.

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

(TRACKS DELETED, FIELDS DELETED, ETC.)

**REQUEST FOR ADP SERVICES**

User Name <i>Cliff Hartley</i>	Phone # <i>673-5436</i>	Org/Task <i>EG12008A3AH9</i>	Submit Date <i>03/2/91</i>	Due Date <i>ASAP</i>
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**PART A**

Request/Problem Category

- General Info       Communications       Equipment       Supplies  
 Software             Tape Library         Computer Operations  
 Other Specify:

Request/Problem Description:

*Please scan tape AΦ1381*

**PART B**

(For Operator Job Requests)

Operator Job Request Type

- Run BRBUOY procedure    Name: \_\_\_\_\_       See attached list  
 Run SELBUOY procedure   Name: \_\_\_\_\_       See attached list  
 Run BUOYSUM procedure   Name: \_\_\_\_\_       See attached list  
 Run OTHER procedure - see SPECIAL INSTRUCTIONS  
 Tape Scan  
 Tape to Tape Copy      Scan OUTPUT tape?  yes  no  
 Disk to Tape Copy      Scan OUTPUT tape?  yes  no  
 Tape to Disk Copy  
 Print     80 column    132 column    HEX    OCTAL    Character  
                                  All files/records?  yes  no. see SPECIAL INSTRUCTIONS  
 Restore VAX file        Name: \_\_\_\_\_  
 OTHER - see SPECIAL INSTRUCTIONS

Special Operator Instructions:

*Please return tape AΦ1381 to Bin 09*

**JOB INPUT**

Id#/Filename: \_\_\_\_\_

*AΦ1381*

Medium:  Tape    Disk    Diskette    Other Specify:  
 Code:     ASCII    EBCDIC    Binary    Other Specify:  
 Tape Specs:    800    1600    6250    NL    SL  
 MAX Record Length: \_\_\_\_\_      MAX BLOCKSIZE: \_\_\_\_\_

*4080*

**JOB OUTPUT**

Id#/Filename: \_\_\_\_\_

*AΦ1381*

Medium:  Tape    Disk    Diskette    Other Specify:  
 Code:     ASCII    EBCDIC    Binary    Other Specify:  
 Tape Specs:    800    1600    6250    NL    SL  
 MAX Record Length: \_\_\_\_\_      MAX Blocksize: \_\_\_\_\_

*4080*

(OC3 Use Only)

JOB Number: *91031201*

Completed By: *J.B.*

Date/Time Start: *3-12-91/10:40*

Date/Time Completed: *3-12-91/10:50*

REQUEST FOR ADD SERVICES

User Name <i>Cliff Hadley</i>	Phone # <i>673-5636</i>	Org/Task <i>EG-2008A3MH9</i>	Submit Date <i>03/12/91</i>	Due Date <i>ASAP</i>
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**PART A**

Request/Problem Category

- General Info       Communications       Equipment       Supplies  
 Software             Tape Library         Computer Operations  
 Other    Specify:

Request/Problem Description:

*Please scan tape AΦ1382*

**PART B** (For Operator Job Requests)

Operator Job Request Type

- Run BRBUOY procedure    Name: \_\_\_\_\_       See attached list  
 Run SELBUOY procedure   Name: \_\_\_\_\_       See attached list  
 Run BUOYSUM procedure   Name: \_\_\_\_\_       See attached list  
 Run OTHER procedure - see SPECIAL INSTRUCTIONS  
 Tape Scan  
 Tape to Tape Copy      Scan OUTPUT tape?  yes  no  
 Disk to Tape Copy      Scan OUTPUT tape?  yes  no  
 Tape to Disk Copy  
 Print     80 column     132 column     HEX     OCTAL     Character  
                                  All files/records?  yes  no. see SPECIAL INSTRUCTIONS  
 Restore VAX file      Name: \_\_\_\_\_  
 OTHER - see SPECIAL INSTRUCTIONS

Special Operator Instructions:

*Please return tape AΦ1382 to Bin 09*

**JOB INPUT**

Id#/Filename:           AΦ1382          

MEDIUM:  Tape     Disk     Cassette     Other Specify:

CODE:     ASCII     EBCDIC     Binary     Other Specify:

Tape Specs:     100     1600     6250     NL     SL

MAX Record Length: \_\_\_\_\_      MAX BLOCKSIZE:           4080          

**JOB OUTPUT**

Id#/Filename:           AΦ1382          

Medium:  Tape     Disk     Diskette     Other Specify:

Code:     ASCII     EBCDIC     Binary     Other Specify:

Tape Specs:     800     1600     6250     NL     SL

MAX Record Length: \_\_\_\_\_      MAX Blocksize:           4080          

(OC3 Use Only)    *91031202*  
 JOB Number:  
 Completed By: *gld*

Date/Time Start: *3-12-91/10:55*  
 Date/Time Completed: *3-12-91/11:05*

REQUEST FOR ADP SERVICES

User Name <i>Cliff Hatley</i>	Phone # <i>673-5436</i>	Org/Task <i>EG12008A3A49</i>	Submit Date <i>03/12/91</i>	Due Date <i>ASAP</i>
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PART A

Request/Problem Category

- General Info       Communications       Equipment       Supplies  
 Software             Tape Library         Computer Operations  
 Other Specify:

Request/Problem Description:

*Please scan tape Aφ1383*

PART B

(For Operator Job Requests)

Operator Job Request Type

- Run BRBUOY procedure    Name: \_\_\_\_\_       See attached list  
 Run SELBUOY procedure   Name: \_\_\_\_\_       See attached list  
 Run BUOYSUM procedure   Name: \_\_\_\_\_       See attached list  
 Run OTHER procedure - see SPECIAL INSTRUCTIONS  
 Tape Scan  
 Tape to Tape Copy      Scan OUTPUT tape?  yes  no  
 Disk to Tape Copy      Scan OUTPUT tape?  yes  no  
 Tape to Disk Copy  
 Print     80 column     132 column     HEX     OCTAL     Character  
                                  All files/records?  yes  no, see SPECIAL INSTRUCTIONS  
 Restore VAX file            Name: \_\_\_\_\_  
 OTHER - see SPECIAL INSTRUCTIONS

Special Operator Instructions:

*Please return tape Aφ1383 to Bin 09*

JOB INPUT

Id#/Filename: *Aφ1383*

MEDIUM:  Tape     Disk     Diskette     Other Specify:  
 CODE:     ASCII     EBCDIC     Binary     Other Specify:  
 Tape Specs:     9     1600     6250     NL     SL  
 MAX Record Length: \_\_\_\_\_      MAX Blocksize: *4080*

JOB OUTPUT

Id#/Filename: *Aφ1383*

Medium:  Tape     Disk     Diskette     Other Specify:  
 Code:     ASCII     EBCDIC     Binary     Other Specify:  
 Tape Specs:     800     1600     6250     NL     SL  
 MAX Record Length: \_\_\_\_\_      MAX Blocksize: *4080*

(OC3 Use Only) *91031203*  
 JOB Number:  
 Completed By: *gd*

Date/Time Start: *3-12-91/11:10*  
 Date/Time Completed: *3-12-91/11:15*

**REQUEST FOR ADP SERVICES**

User Name <i>Cliff Hartley</i>	Phone # <i>673-5436</i>	Org/Task <i>EG12008A3A#9</i>	Submit Date <i>03/12/91</i>	Due Date <i>ASAP</i>
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**PART A**

**Request/Problem Category**

- General Info       Communications       Equipment       Supplies  
 Software             Tape Library         Computer Operations  
 Other Specify:

**Request/Problem Description:**

*Please scan tape AΦ1384*

**PART B**

(For Operator Job Requests)

**Operator Job Request Type**

- Run BRBUOY procedure    Name: \_\_\_\_\_       See attached list  
 Run SELBUOY procedure   Name: \_\_\_\_\_       See attached list  
 Run BUOYSUM procedure   Name: \_\_\_\_\_       See attached list  
 Run OTHER procedure - see SPECIAL INSTRUCTIONS  
 Tape Scan  
 Tape to Tape Copy    Scan OUTPUT tape?  yes  no  
 Disk to Tape Copy    Scan OUTPUT tape?  yes  no  
 Tape to Disk Copy  
 Print     80 column     132 column     HEX     OCTAL     Character  
    All files/records?  yes  no. see SPECIAL INSTRUCTIONS  
 Restore VAX file        Name: \_\_\_\_\_  
 OTHER - see SPECIAL INSTRUCTIONS

**Special Operator Instructions:**

*Please return tape AΦ1384 to Bin 09*

**JOB INPUT**

Id#/Filename:           AΦ1384          

Medium:  Tape     Disk     Diskette     Other Specify:

Code:     ASCII     EBCDIC     Binary     Other Specify:

Tape Specs:     800     1600     6250     NL     SL

MAX Record Length: \_\_\_\_\_      MAX Blocksize:        4080    

**JOB OUTPUT**

Id#/Filename:           AΦ1384          

Medium:  Tape     Disk     Diskette     Other Specify:

Code:     ASCII     EBCDIC     Binary     Other Specify:

Tape Specs:     800     1600     6250     NL     SL

MAX Record Length: \_\_\_\_\_      MAX Blocksize:        4080    

(OC3 Use Only) *91031204*

JOB Number:  
Completed By: *[Signature]*

Date/Time Start: *3-12-91/11:20*  
Date/Time Completed: *3-12-91/11:50*



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

February 28, 1991

F1804-02  
 DB3:91-0082  
 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 Mr. Picciolo:

Enclosed are the January 1991, Nine Track, 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,

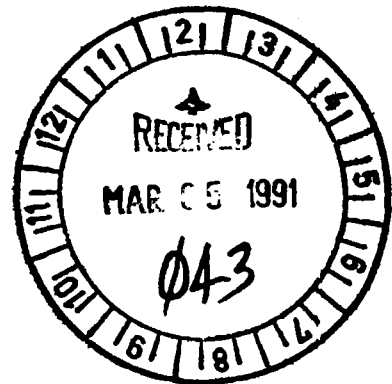
*Sallie P. Nolan*

Sallie P. Nolan  
 ADP Manager

# 9100055

Enclosures

A 01381  
 A 01382  
 A 01383  
 A 01384



Attachment

Tape 1: 41001 01019100-01319123  
41002 01019100-01319123  
41006 01019100-01319123  
41008 01019100-01319123  
41009 01019100-01319123  
41010 01019100-01319123  
42001 01019100-01319123  
42002 01019100-01319123  
42003 01019100-01319123  
42007 01019100-01319123  
42019 01019100-01319123  
42020 01019100-01319123  
44001 01019100-01319123  
44004 01019100-01319123  
44005 01019100-01319123  
44007 01019100-01319123  
44008 01019100-01319123

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Tape 2: 44009 01019100-01319123  
44011 01019100-01319123  
44012 01019100-01319123  
44013 01019100-01319123  
44014 01019100-01319123  
44015 01019100-01319123  
44023 01149116-01319123  
45002 01019100-01319123  
45004 01019100-01319123  
46001 01019100-01319123  
46002 01019100-01319123  
46003 01019100-01319123  
46005 01049102-01279122  
46006 01019100-01139101  
46010 01019100-01319123  
46011 01019100-01319123

16

33

Tape 3 46012 01019100-01319123  
46013 01019100-01319123  
46014 01019100-01319123  
46023 01019100-01319123  
46025 01019100-01319123  
46026 01019100-01319123  
46027 01019100-01319123  
46028 01019100-01319123  
46035 01019100-01319123  
46042 01019100-01319123  
46045 01309122-01319123  
51001 01019100-01319123  
51002 01169100-01319123

13

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51003 01019100-01319123

Tape 4 ALSN6 01019100-01319123  
BURL1 01019100-01319123  
BUSL1 01119100-01319023  
BUZM3 01019100-01319123  
CARO3 01019100-01319123  
CHLV2 01019100-01319123  
CLKN7 01019100-01319123  
CSBF1 01019100-01319123  
DBLN6 01019100-01319123  
DESW1 01019100-01319123  
DISW3 01019100-01319123  
DPJA1 01019100-01319123  
DSLN7 01019100-01319123  
ENIP2 01019100-01319123  
FBIS1 01019100-01319123  
FFIA2 01019100-01319123  
FPSN7 01019100-01319123  
GBCL1 01019100-01319123  
GDIL1 01019100-01319123  
GLLN6 01019100-01319123  
IOSN3 01019100-01319123  
KOSP2 01019100-01319123  
LKWF1 01019100-01319123  
MDRM1 01019100-01319123  
MISM1 01019100-01319123  
MLIP2 01019100-01319123  
MLRF1 01019100-01319123  
MPCL1 01019100-01319123  
NWPO3 01019100-01319123  
PAGP2 01019100-01319123  
PILM4 01019100-01319123  
PTAC1 01019100-01319123  
PTAT2 01019100-01319123  
PTGC1 01019100-01319123  
ROAM4 01019100-01319123  
SANF1 01129111-01319123  
SAUF1 01019100-01319123  
SBIO1 01019100-01319123  
SGNW3 01019100-01319123  
SISW1 01019100-01319123  
SMKF1 01019100-01319123  
SPGF1 01019100-01319123  
SRST2 01019100-01319123  
STDM4 01019100-01319123  
SVLS1 01019100-01319123  
TPLM2 01019100-01319123  
TTIW1 01019100-01319123  
UJAP2 01019100-01319123  
VENF1 01019100-01319123  
WPOW1 01019100-01319123

50

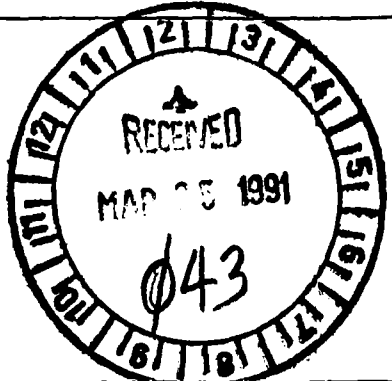
96



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 <input type="checkbox"/> BCD <input type="checkbox"/> BINARY  <input checked="" type="checkbox"/> ASCII <input type="checkbox"/> EBCDIC  <input type="checkbox"/> _____</p>	<p>9. LENGTH OF INTER-RECORD GAP (IF KNOWN) <input checked="" type="checkbox"/> 3/4 INCH  <input type="checkbox"/> _____</p>
<p>6. NUMBER OF TRACKS (CHANNELS) <input type="checkbox"/> SEVEN  <input checked="" type="checkbox"/> NINE  <input type="checkbox"/> _____</p>	<p>10. END OF FILE MARK <input checked="" type="checkbox"/> OCTAL 17  <input type="checkbox"/> _____</p>
<p>7. PARITY <input checked="" type="checkbox"/> ODD  <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 <input type="checkbox"/> 200 BPI <input checked="" type="checkbox"/> 1600 BPI  <input type="checkbox"/> 556 BPI  <input type="checkbox"/> 800 BPI  <input type="checkbox"/> _____</p>	<p>12. PHYSICAL BLOCK LENGTH IN BYTES                  4080</p>
	<p>13. LENGTH OF BYTES IN BITS                  8</p>

RECORD FORMAT DESCRIPTION

RECORD NAME

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

14. FIELD NAME	15. POSITION FROM-1 MEASURED IN (e.g. Min, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
<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	I3, 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

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		
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.					
<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 (e.g., bits, 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 $m^2/Hz$ 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)

RECORD NAME File Type "191"

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>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. bits, 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., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
<b>ANGULAR COEFFICIENTS 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 "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 <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	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 <sub>1</sub> /a <sub>1</sub> 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 <small>(e.g., Min, byte)</small>	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	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 = <math>S(F,A)*D(F,A)</math>, in which F = FREQ(HZ), A = Azimuth Angle measured clockwise from North to direction wave is from. <math>D(F,A) = (1/PI)*((1/2)+R1*COS(A-A1)+R2*COS(2*(A-A2)))</math>, 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, <math>R1 = (SQRT(A1*A1+B1*B1))/A0</math>, <math>R2 = (SQRT(A2*A2+B2*B2))/A0</math>, <math>A1 = ARCTAN(B1,A1)</math>, <math>A2 = (1/2)ARCTAN(B2,A2) + 0</math> or <math>PI</math>. <math>C11S(M*H/HZ) = (C22+C33)/(K*K)</math> in which K, the propagation constant, is the solution to <math>W*W = G*K*TANH(K*D)</math>, in which <math>W = 2*PI*F</math>, <math>G = 9.806 M/(SEC*SEC)</math>, 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 <small>(e.g., bits, bytes)</small>	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 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:

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(97 rows affected)

Password:

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(97 rows affected)