

ACCESS NUMBER	REF NUMBER	FILE TYPE	PROJ CODE	INST	PLAT	CRUISE NO	CRUISE START	CRUISE END	NUM STA	NUM REC
9000232	BR9470	F191		313B	317F	41001	08/01/90	08/31/90	1	8,176
9000232	BR9471	F191		313B	317F	41002	08/01/90	08/31/90	1	8,928
9000232	BR9472	F191		313B	317F	41006	08/01/90	08/31/90	1	8,165
9000232	BR9473	F191		313B	317F	41008	08/01/90	08/31/90	1	45,207
9000232	BR9474	F191		313B	317F	41009	08/01/90	08/31/90	1	14,824
9000232	BR9475	F191		313B	317F	41010	08/01/90	08/31/90	1	14,864
9000232	BR9476	F191		313B	317F	42001	08/01/90	08/27/90	1	7,006
9000232	BR9477	F191		√313B	317F	42002√	08/01/90	08/31/90	1	8,157
9000232	BR9478	F191		313B	317F	42003	08/01/90	08/31/90	1	8,184
9000232	BR9479	F191		313B	317F	42007	08/01/90	08/31/90	1	2,231
9000232	BR9480	F191		313B	317F	42015	08/01/90	08/31/90	1	45,325
9000232	BR9481	F191		313B	317F	42016	08/01/90	08/31/90	1	38,981
9000232	BR9482	F191		313B	317F	42019	08/01/90	08/31/90	1	7,414
9000232	BR9483	F191		313B	317F	42020	08/01/90	08/31/90	1	7,416
9000232	BR9484	F191		313B	317F	44004	08/01/90	08/31/90	1	7,976
9000232	BR9485	F191		313B	317F	44005	08/01/90	08/31/90	1	8,173
9000232	BR9486	F191		313B	317F	44007	08/01/90	08/31/90	1	7,384
9000232	BR9487	F191		313B	317F	44008	08/01/90	08/31/90	1	8,185

ACCESS NUMBER	REF NUMBER	FILE TYPE	PROJ CODE	INST	PLAT	CRUISE NO	CRUISE START	CRUISE END	NUM STA	NUM REC
9000232	BR9488	F191		313B	317F	44009	08/01/90	08/31/90	1	7,440
9000232	BR9489	F191		313B	317F	44011	08/01/90	08/31/90	1	7,784
9000232	BR9490	F191		313B	317F	44013	08/01/90	08/31/90	1	7,414
9000232	BR9491	F191		313B	317F	45001	08/01/90	08/31/90	1	7,412
9000232	BR9492	F191		313B	317F	45002	08/01/90	08/31/90	1	8,928
9000232	BR9493	F191		313B	317F	45003	08/01/90	08/31/90	1	5,926
9000232	BR9494	F191		313B	317F	45004	08/01/90	08/31/90	1	8,898
9000232	BR9495	F191		313B	317F	45005	08/01/90	08/31/90	1	43,789
9000232	BR9496	F191		313B	317F	45006	08/01/90	08/31/90	1	7,440
9000232	BR9497	F191		313B	317F	45007	08/01/90	08/31/90	1	42,001
9000232	BR9498	F191		313B	317F	45008	08/01/90	08/31/90	1	8,928
9000232	BR9499	F191		313B	317F	46001	08/01/90	08/31/90	1	8,167
9000232	BR9500	F191		313B	317F	46002	08/01/90	08/31/90	1	7,475
9000232	BR9501	F191		313B	317F	46003	08/01/90	08/31/90	1	7,492
9000232	BR9502	F191		313B	317F	46005	08/01/90	08/17/90	1	1,486
9000232	BR9503	F191		313B	317F	46006	08/01/90	08/31/90	1	7,972
9000232	BR9504	F191		313B	317F	46010	08/01/90	08/31/90	1	6,662
9000232	BR9505	F191		313B	317F	46011	08/01/90	08/31/90	1	8,906
9000232	BR9506	F191		313B	317F	46012	08/01/90	08/31/90	1	7,422
9000232	BR9507	F191		313B	317F	46013	08/01/90	08/31/90	1	2,982
9000232	BR9508	F191		313B	317F	46014	08/01/90	08/31/90	1	8,558
9000232	BR9509	F191		313B	317F	46023	08/01/90	08/31/90	1	7,430
9000232	BR9510	F191		313B	317F	46025	08/01/90	08/31/90	1	8,822
9000232	BR9511	F191		313B	317F	46027	08/01/90	08/31/90	1	7,294
9000232	BR9512	F191		313B	317F	46028	08/01/90	08/31/90	1	8,916
9000232	BR9513	F191		313B	317F	46030	08/01/90	08/31/90	1	7,366
9000232	BR9514	F191		313B	317F	46035	08/01/90	08/31/90	1	7,362
9000232	BR9515	F191		313B	317F	46040	08/01/90	08/31/90	1	7,408

ACCESS NUMBER	REF NUMBER	FILE TYPE	PROJ CODE	INST	PLAT	CRUISE NO	CRUISE START	CRUISE END	NUM STA	NUM REC
9000232	BR9516	F191		313B	317F	46041	08/01/90	08/31/90	1	7,414
9000232	BR9517	F191		313B	317F	46042	08/01/90	08/31/90	1	45,087
9000232	BR9518	F191		313B	317F	51001	08/01/90	08/31/90	1	8,878
9000232	BR9519	F191		313B	317F	51003	08/01/90	08/31/90	1	8,794
9000232	BR9520	F191		313B	317F	51004	08/01/90	08/31/90	1	8,712
9000232	BR9521	F191		313B	317F	ALSN6	08/01/90	08/31/90	1	7,120
9000232	BR9522	F191		313B	317F	BURL1	08/01/90	08/31/90	1	2,229
9000232	BR9523	F191		313B	317F	BUZM3	08/01/90	08/31/90	1	1,488
9000232	BR9524	F191		313B	317F	CARO3	08/01/90	08/31/90	1	1,486
9000232	BR9525	F191		313B	317F	CHLV2	08/01/90	08/31/90	1	7,519
9000232	BR9526	F191		313B	317F	CLKN7	08/01/90	08/31/90	1	2,229
9000232	BR9527	F191		313B	317F	CSBF1	08/01/90	08/31/90	1	2,126
9000232	BR9528	F191		313B	317F	DBLN6	08/01/90	08/31/90	1	1,484
9000232	BR9529	F191		313B	317F	DESW1	08/01/90	08/31/90	1	1,484
9000232	BR9530	F191		313B	317F	DISW3	08/01/90	08/31/90	1	1,484
9000232	BR9531	F191		313B	317F	DPIA1	08/01/90	08/31/90	1	1,488
9000232	BR9532	F191		313B	317F	DSL7	08/01/90	08/31/90	1	7,992
9000232	BR9533	F191		313B	317F	ENIP2	08/01/90	08/31/90	1	1,468
9000232	BR9534	F191		313B	317F	FARP2	08/01/90	08/31/90	1	898
9000232	BR9535	F191		313B	317F	FBIS1	08/01/90	08/31/90	1	1,488
9000232	BR9536	F191		313B	317F	FFIA2	08/01/90	08/31/90	1	1,480
9000232	BR9537	F191		313B	317F	FPSN7	08/01/90	08/31/90	1	2,231
9000232	BR9538	F191		313B	317F	GBCL1	08/01/90	08/31/90	1	8,161
9000232	BR9539	F191		313B	317F	GDIL1	08/01/90	08/31/90	1	2,218
9000232	BR9540	F191		313B	317F	GLLN6	08/01/90	08/31/90	1	1,488
9000232	BR9541	F191		313B	317F	IOSN3	08/01/90	08/31/90	1	1,484
9000232	BR9542	F191		313B	317F	LKWF1	08/01/90	08/31/90	1	2,228
9000232	BR9543	F191		313B	317F	MDRM1	08/01/90	08/31/90	1	1,488
9000232	BR9544	F191		313B	317F	MISM1	08/01/90	08/31/90	1	1,486
9000232	BR9545	F191		313B	317F	MLRF1	08/01/90	08/31/90	1	1,484
9000232	BR9546	F191		313B	317F	MPCL1	08/01/90	08/31/90	1	6,906
9000232	BR9547	F191		313B	317F	NWPO3	08/01/90	08/31/90	1	1,484
9000232	BR9548	F191		313B	317F	PAGP2	08/01/90	08/31/90	1	1,416
9000232	BR9549	F191		313B	317F	PILM4	08/01/90	08/31/90	1	1,276
9000232	BR9550	F191		313B	317F	PTAC1	08/01/90	08/31/90	1	1,482
9000232	BR9551	F191		313B	317F	PTAT2	08/01/90	08/31/90	1	2,223
9000232	BR9552	F191		313B	317F	PTGC1	08/01/90	08/31/90	1	1,484
9000232	BR9553	F191		313B	317F	ROAM4	08/01/90	08/31/90	1	1,486
9000232	BR9554	F191		313B	317F	SAUF1	08/01/90	08/31/90	1	2,231
9000232	BR9555	F191		313B	317F	SBIO1	08/01/90	08/31/90	1	1,488
9000232	BR9556	F191		313B	317F	SGNW3	08/01/90	08/31/90	1	1,488
9000232	BR9557	F191		313B	317F	SISW1	08/01/90	08/31/90	1	1,480
9000232	BR9558	F191		313B	317F	SMKF1	08/01/90	08/31/90	1	1,480
9000232	BR9559	F191		313B	317F	SPGF1	08/01/90	08/31/90	1	2,232
9000232	BR9560	F191		313B	317F	SRST2	08/01/90	08/31/90	1	2,229
9000232	BR9561	F191		313B	317F	STDM4	08/01/90	08/31/90	1	1,488
9000232	BR9562	F191		313B	317F	SVLS1	08/01/90	08/31/90	1	1,486
9000232	BR9563	F191		313B	317F	TPLM2	08/01/90	08/31/90	1	2,229
9000232	BR9564	F191		313B	317F	TTIW1	08/01/90	08/25/90	1	1,182
9000232	BR9565	F191		313B	317F	UJAP2	08/01/90	08/31/90	1	1,474

9000232 BR9566 F191	313B 317F VNF1	08/01/90 08/31/90	1	2,219
9000232 BR9567 F191	313B 317F WPOW1	08/01/90 08/31/90	1	1,433

ACCESSION NO. 9000232 FILETYPE F191

TRACK NO. BR9470-9487

PROJECT IDENTIFICATION _____

AUG 1990

STEP	DATE	INIT.	TAPE OR DISK DSN	NO. FILES	RECL	BLK SIZE	NO. RECORDS
ORIG. TAPE	10-9-90	C.M.H.	AΦ1288 *	1	120	4080	256,564
DUPLICATE TAPE	10-31-90	FJM	WΦ8193 *	1	120	4800	256,596
REFORMATTED TAPE							
REFORMATTED DISK							
FIRST MULCHEK							
FINAL MULCHEK							
MPD75 OR F022							
DATA SET FINALIZED							

ERRORS REPORTED TO PRINCIPAL INVESTIGATOR:

D191P

* = NO LABEL

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

COMMENTS (TRACKS DELETED, FIELDS DELETED, ETC.)

ACCESSION NO. 90 00232 FILETYPE F191

TRACK NO. _____
BR9488-9515

PROJECT IDENTIFICATION _____

STEP	DATE	INIT.	TAPE OR DISK DSN	NO. FILES	LRECL	BLK SIZE	NO. RECORDS
ORIG. TAPE	10-9-90	C.M.H.	A01289 *	1	120	4080	277,674
DUPLICATE TAPE	11-5-90	F.J.M.	W09198 *	1	120	4800	277,680
REFORMATTED TAPE							
REFORMATTED DISK							
FIRST MULCHEK							
FINAL MULCHEK							
MPD75 OR F022							
DATA SET FINALIZED							

ERRORS REPORTED TO PRINCIPAL INVESTIGATOR:

* = NO LABEL

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

COMMENTS (TRACKS DELETED, FIELDS DELETED, ETC.)

ACCESSION NO. 90 00232 FILETYPE F191

TRACK NO. _____

PROJECT IDENTIFICATION _____

not at Asheville 12/04/90
12/10/90

BR 9516 - 9567

AUG 1990

STEP	DATE	INIT.	TAPE OR DISK DSN	NO. FILES	LRECL	BLK SIZE	NO. RECORDS
ORIG. TAPE	10-9-90	C.M.H.	A01290 *	1	120	4080	186,524
DUPLICATE TAPE	11-21-90	FJM	W09613 *	1	120	4800	186,512
REFORMATTED TAPE							
REFORMATTED DISK							
FIRST MULCHEK							
FINAL MULCHEK							
MPD75 OR F022							
DATA SET FINALIZED							

~~ERRORS REPORTED TO PRINCIPAL INVESTIGATOR:~~

* = NO LABEL

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

COMMENTS (TRACKS DELETED, FIELDS DELETED, ETC.)

NO. 9000232

FILETYPE F191

TRACK NO. _____

PROJECT IDENTIFICATION _____

F191 August, 1990

	DATE	INIT.	TAPE OR DISK DSN	NO. FILES	LRECL	BLK SIZE	NO. RECORDS
	10/09/90	CMA	AD1288	1	120	4080	256,564
TAPE	10/05/90	CMA	AD1289	1	120	4080	277,678
ED TAPE	10/05/90	CMK	AD1290	1	120	4080	186,524
ED DISK							
CHEK							
CHEK							
FO22							
ERIALIZED							

REPORTED TO PRINCIPAL INVESTIGATOR: All 'A' tapes are 9TRK, NL, 1600bpi.

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

(TRACKS DELETED, FIELDS DELETED, ETC.)

REQUEST FOR ADP SERVICES

User Name <i>Cliff Hartley</i>	Phone # <i>673-5636</i>	Org/Task <i>EG1208N3AH9</i>	Submit Date <i>10/04/90</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 A01288

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 A01288 to Bin 09

JOB INPUT

Id#/Filename: A01288

- 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: A01288

- 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: *9444543*
 Completed By: *gh*

Date/Time Start: *10-9-90/7:25*
 Date/Time Completed: *10-9-90/7:30*

REQUEST FOR ADP SERVICES

User Name <i>Cliff Hartley</i>	Phone # <i>673-5636</i>	Org/Task <i>EG1208N3AH9</i>	Submit Date <i>10/04/90</i>	Due Date <i>ASAP</i>
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PART A

Request/Problem Category

- | | | | |
|---|---|---|-----------------------------------|
| <input type="checkbox"/> General Info | <input type="checkbox"/> Communications | <input type="checkbox"/> Equipment | <input type="checkbox"/> Supplies |
| <input type="checkbox"/> Software | <input type="checkbox"/> Tape Library | <input checked="" type="checkbox"/> Computer Operations | |
| <input type="checkbox"/> Other Specify: | | | |

Request/Problem Description:

Please scan tape A01289

PART B

(For Operator Job Requests)

Operator Job Request Type

- | | | |
|---|---|--|
| <input type="checkbox"/> Run BRBUOY procedure | Name: _____ | <input type="checkbox"/> See attached list |
| <input type="checkbox"/> Run SELBUOY procedure | Name: _____ | <input type="checkbox"/> See attached list |
| <input type="checkbox"/> Run BUOYSUM procedure | Name: _____ | <input type="checkbox"/> See attached list |
| <input type="checkbox"/> Run OTHER procedure - see SPECIAL INSTRUCTIONS | | |
| <input checked="" type="checkbox"/> Tape Scan | | |
| <input type="checkbox"/> Tape to Tape Copy | Scan OUTPUT tape? <input type="checkbox"/> yes <input type="checkbox"/> no | |
| <input type="checkbox"/> Disk to Tape Copy | Scan OUTPUT tape? <input type="checkbox"/> yes <input type="checkbox"/> no | |
| <input type="checkbox"/> Tape to Disk Copy | | |
| <input type="checkbox"/> Print | <input type="checkbox"/> 80 column <input type="checkbox"/> 132 column <input type="checkbox"/> HEX <input type="checkbox"/> OCTAL <input type="checkbox"/> Character | |
| All files/records? <input type="checkbox"/> yes <input type="checkbox"/> no. see SPECIAL INSTRUCTIONS | | |
| <input type="checkbox"/> Restore VAX file | Name: _____ | |
| <input type="checkbox"/> OTHER - see SPECIAL INSTRUCTIONS | | |

Special Operator Instructions:

Please return tape A01289 to Bin 09

JOB INPUT

Id#/Filename: A01289

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

JOB OUTPUT

Id#/Filename: A01289

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

(OC3 Use Only)

JOB Number: *98180504*

Completed By:

Date/Time Start: *10-5-90/14:50*

Date/Time Completed: *10-5-90/15:00*

REQUEST FOR ADP SERVICES

User Name <i>Cliff Hartley</i>	Phone # <i>673-5636</i>	Org/Task <i>EG1200 EN3AH9</i>	Submit Date <i>10/04/90</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 A01290

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 A01290 to Bin 09

JOB INPUT

Id#/Filename: A01290

- 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: A01290

- 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: *90144545*
Completed By: *D.S.*

Date/Time Start: *10-5-90/14:35*
Date/Time Completed: *10-5-90/14:45*



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

September 28, 1990 F1804-02
DB3:90-0476
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 August 1990, 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.

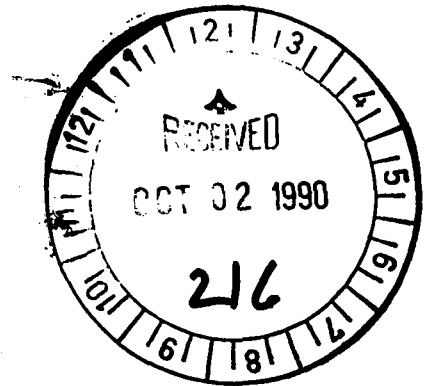
If you have any questions, please call B. G. Redmon at FTS 494-2834, or Commercial (601) 688-2834.

Sincerely,

Sallie P. Nolan

Sallie P. Nolan
ADP Manager

Enclosures



Aφ1288
Aφ1289
Aφ1290

9000232



Attachment

Tape 1: 41001 08019000-08319023
41002 08019000-08319023
41006 08019000-08319023
41008 08019000-08319023
41009 08019000-08319023
41010 08019000-08319023
42001 08019000-08279013
42002 08019000-08319023
42003 08019000-08319023
42007 08019000-08319023
42015 08019000-08319023
42016 08019000-08319023
42019 08019000-08319023
42020 08019000-08319023
44004 08019017-08319023
44005 08019000-08319023
44007 08019000-08319023
44008 08019000-08319023

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Tape 2: 44009 08019000-08319023
44011 08019000-08319023
44013 08019000-08319023
45001 08019000-08319023
45002 08019000-08319023
45003 08019000-08319023
45004 08019000-08319023
45005 08019000-08319023
45006 08019000-08319023
45007 08019000-08319023
45008 08019000-08319023
46001 08019000-08319023
46002 08019000-08319023
46003 08019000-08319023
46005 08019000-08179000
46006 08019000-08319023
46010 08019000-08319023
46011 08019000-08319023
46012 08019000-08319023
46013 08019000-08319023
46014 08019000-08319001
46023 08019000-08319023
46025 08019000-08319023
46027 08019000-08319023
46028 08019000-08319023
46030 08019000-08319023
46035 08019000-08319023
46040 08019000-08319023

28



Tape 3: 46041 08019000-08319023
46042 08019000-08319023
51001 08019000-08319023
51003 08019000-08319023
51004 08019000-08319023
ALSN6 08019000-08319023
BURL1 08019000-08319023
BUZM3 08019000-08319023
CARO3 08019000-08319023
CHLV2 08019000-08319023
CLKN7 08019000-08319023
CSBF1 08019000-08319023
DBLN6 08019000-08319023
DESW1 08019000-08319023
DISW3 08019000-08319023
DPIA1 08019000-08319023
DSLN7 08019000-08319023
ENIP2 08019000-08319023
FARP2 08019000-08319023
FBIS1 08019000-08319023
FFIA2 08019000-08319023
FPSN7 08019000-08319023
GBCL1 08019000-08319023
GDIL1 08019000-08319023
GLLN6 08019000-08319023
IOSN3 08019000-08319023
LKWF1 08019000-08319023
MDRM1 08019000-08319023
MISM1 08019000-08319023
MLRF1 08019000-08319023
MPCL1 08019000-08319023
NWPO3 08019000-08319023
PAGP2 08019000-08319023
PILM4 08019000-08319023
PTAC1 08019000-08319023
PTAT2 08019000-08319023
PTGC1 08019000-08319023
ROAM4 08019000-08319023
SAUF1 08019000-08319023
SBI01 08019000-08319023
SGNW3 08019000-08319023
SISW1 08019000-08319023
SMKF1 08019000-08319023
SPGF1 08019000-08319023
SRST2 08019000-08319023
STDM4 08019000-08319023
SVLS1 08019000-08319023
TPLM2 08019000-08319023
TTIW1 08019000-08259018
UJAP2 08019000-08319023
VENF1 08019000-08319023
WPOW1 08019000-08319023

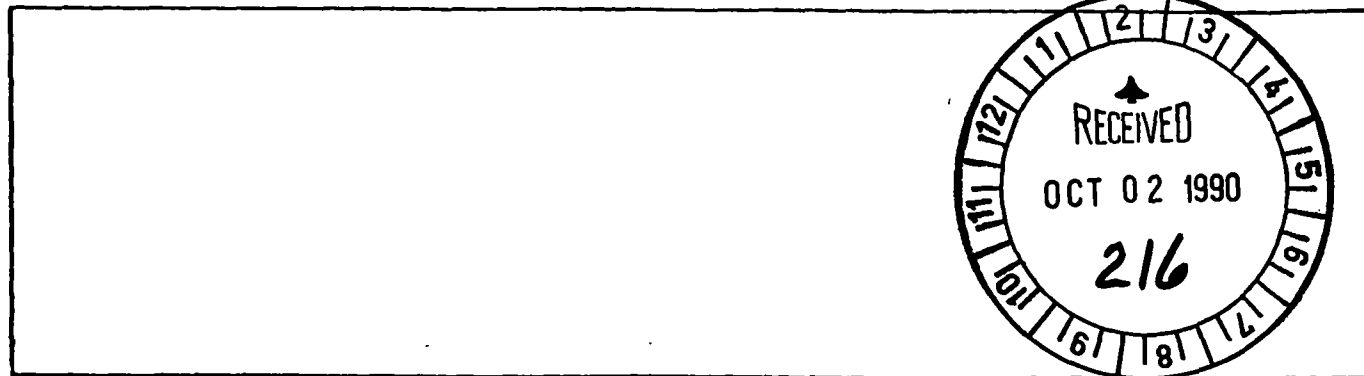
52

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.

900732

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> </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 (No. bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
DESCRIPTIVE HEADER RECORD					
FILE TYPE	1	3	Bytes	A3	"191" (constant)
FILE DATE	4	6	Bytes	3I2	Yr.,Mo.,Day of file generation
RECORD TYPE	10	1	Byte	A1	"1" (Descriptive header record)
STATION	11	6	Bytes	A6	Unique name of observation point
OBSERVED DATE	17	6	Bytes	3I2	Year, Month, Day (GMT)
OBSERVED TIME	23	4	Bytes	2I2	Hours, Minutes (GMT)
LATITUDE	27	6	Bytes	3I2	Degrees, Minutes, Seconds
LAT. HEMISPHERE	33	1	Byte	A1	"N" or "S" Hemisphere
LONGITUDE	34	7	Bytes	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	I4	14Original measurements per minute to tenths
WAVE SAMPLING DURATION*	58	4	Bytes	I4	Minutes to hundredths
WAVE TOTAL INTERVALS*	62	3	Bytes	I3	Number of frequency intervals
CHIEF SCIENTIST	65	20	Bytes		A20(optional)
INSTITUTION	85	20	Bytes	A20	Data source
WIND SAMPLING DURATION	105	3	Bytes	I3	Minutes to tenths
COMMENTS *for buoy data only	108	13	Bytes		A13 RECORD LENGTH IS 120
ENVIRONMENTAL DATA RECORD					
FILE TYPE	1	3	Bytes	A3	"191" (constant)
FILE DATE	4	6	Bytes	3I2	Yr.,Mo.,Day of file generation
RECORD TYPE	10	1	Byte	A1	"2" (environmental data rec.)
STATION	11	6	Bytes	A6	Unique name of observation point
OBSERVED DATE	17	6	Bytes	3I2	Year, Month, Day (GMT)
OBSERVED TIME	23	4	Bytes	2I2	Hours, Minutes (GMT)
ALTITUDE	27	3	Bytes	I3	Meteorology alt., meters to tenths
AIR TEMP	30	4	Bytes	I4	Temperature, Celsius to tenths
DEW POINT	34	4	Bytes	I4	14Temperature, Celsius to tenths
BAROMETER	38	5	Bytes	I5	Millibars to tenths (reduced to sea level)
WIND SPEED	43	4	Bytes	I4	Meters/sec. to hundredths
WIND DIRECTION	47	4	Bytes	I4	From true north, degrees to tenths
WEATHER	51	1	Byte	I1	Current weather (WMO Code 4501)
VISIBILITY	52	3	Bytes	I3	Nautical miles, to tenths

RECORD FORMAT DESCRIPTION

RECORD NAME File Type "191"

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN (e.g., Min, Bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND 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 refer- ence level
DEEPEST TROUGH SEA SURFACE	77	3	Bytes	I3	Meters to tenths, from refer- ence 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, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
WAVE SPECTRA DATA RECORD (cont'd)					
DIRECTION	30	4	Bytes	I4	Blank for non-directional spectra, or degrees to tenths from true N for frequencies on this record
COUNT	34	1	Byte	I1	Number of frequencies on this record
DATA	35	70	Bytes	5(2I4,I6)	Up to 5 Frequency, Resolution, Density fields. Null fields blank
Frequency	35,49,63 77,91	4	Bytes	I4	Center frequency of interval in Hertz to thousandths
Resolution	39,53,67 81,95	4	Bytes	I4	Resolution of interval in Hertz to ten-thousandths
Density	43,57,71 85,99	6	Bytes	I6	Spectral Density of interval in m^2/Hz to thousandths
BLANKS	105	16	Bytes	16X	Fill the fixed length record
SUBSURFACE TEMPERATURE DATA RECORD					
FILE TYPE	1	3	Bytes	A3	"191" (constant)
FILE DATE	4	6	Bytes	3I2	Yr.,Mo.,Day of file generation
RECORD TYPE	10	1	Byte	A1	"4" (Subsurface Temperature Data Record)
STATION	11	6	Bytes	A6	Unique name of observation point
OBSERVED DATE	17	6	Bytes	3I2	Year, Month, Day (GMT)
OBSERVED TIME	23	4	Bytes	2I2	Hours, Minutes (GMT)
DATA	27	90	Bytes	10(I5,I4)	Up to 10 Depth and temperature fields
Depth	27,36,45 54,63,72 81,90,99 108	5	Bytes	I5	Obs. level, meters to tenths
Temperature	32,41,50 59,68,77 86,95,104 113	4	Bytes	I4	Degrees Celsius to hundredths (include Sea Surface temperature)
BLANKS	117	4	Bytes	4X	Fill the fixed length record
SUBSURFACE DATA RECORD					
FILE TYPE	1	3	Bytes	A3	"191" (constant)
FILE DATE	4	6	Bytes	3I2	Yr.,Mo.,Day of file generation
RECORD TYPE	10	1	Byte	A1	"5" (Subsurface Data Record)
STATION	11	6	Bytes	A6	Unique name of observation point
OBSERVED DATE	17	6	Bytes	3I2	Year, Month, Day (GMT)
OBSERVED TIME	23	4	Bytes	2I2	Hours, Minutes (GMT)

RECORD NAME File Type "191"

14. FIELD NAME	15. POSITION FROM-1 MEASURED IN <small>(No. of bytes)</small>	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
SUBSURFACE DATA RECORD (cont'd)					
DATA	27	90	Bytes	3(15,15,15,15,15,15)	Up to 3 Depth, U Component, V Component, Pressure, Conductivity, Salinity fields
Depth	27,57,87	5	Bytes	15	Obs. Level, meters to tenths
U Component	32,62,92	5	Bytes	15	East vector in cm/sec. to tenths
V Component	37,67,97	5	Bytes	15	True north vector in cm/sec. to tenths
Pressure	42,72,102	5	Bytes	15	Kg./cm ² to hundredths
Conductivity	47,77,107	5	Bytes	15	Millimhos/cm to thousandths
Salinity	52,82,112	5	Bytes	15	Parts per 1000 to thousandths
BLANKS	117	4	Bytes	4X	Fill the fixed length record

RECORD FORMAT DESCRIPTION

RECORD NAME File Type "191"

14. FIELD NAME	15. POSITION FROM -1 MEASURED IN (e.g., 000, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
CO AND QUAD SPECTRA FOR DIRECTIONAL WAVES					
FILE TYPE	1	3	Bytes	I3	Always "191"
FILE DATE	4	6	Bytes	3I2	Yr., Mo., Day of file generation
RECORD TYPE	10	1	Byte	A1	Always "6"
STATION NUMBER	11	6	Bytes	A6	Unique name of observation point
OBSERVED DATE	17	6	Bytes	3I2	Year, month, day (GMT)
OBSERVED TIME	23	4	Bytes	2I2	Hours, minutes (GMT)
FREQUENCY	27	4	Bytes	I4	Center frequency of interval in Hz to .001
SPECTRAL RESOLUTION	31	5	Bytes	I5	Spectral resolution of this frequency band in Hz to ten thousandths
CO-SPECTRA C ₁₁	36	6	Bytes	Signed Integers I6	Up to 9 <u>uncorrected</u> values of Co and Quad spectra in meters squared/Hz. The order these spectra are presented is: C ₁₁ , C ₂₂ , C ₃₃ , C ₁₂ , Q ₁₂ , C ₁₃ , Q ₁₃ , C ₂₃ , and Q ₂₃
EXPONENT	42	2	Bytes	I2	Where subscripts are defined as follows:
CO-SPECTRA C ₂₂	44	6	Bytes	I6	1. Heave
EXPONENT	50	2	Bytes	I2	2. E-W Slope
CO-SPECTRA C ₃₃	52	6	Bytes	I6	3. N-S Slope
EXPONENT	58	2	Bytes	I2	
CO-SPECTRA C ₁₂	60	6	Bytes	I6	
EXPONENT	66	2	Bytes	I2	
QUAD-SPECTRA Q ₁₂	68	6	Bytes	I6	If the exponent is less than -9 the exponent and its associated spectra should be zero
EXPONENT	74	2	Bytes	I2	
CO-SPECTRA C ₁₃	76	6	Bytes	I6	
EXPONENT	82	2	Bytes	I2	
QUAD-SPECTRA Q ₁₃	84	6	Bytes	I6	
EXPONENT	90	2	Bytes	I2	
CO-SPECTRA C ₂₃	92	6	Bytes	I6	
EXPONENT	98	2	Bytes	I2	
QUAD-SPECTRA Q ₂₃	100	6	Bytes	I6	
EXPONENT	106	2	Bytes	I2	
C ₂₂ - C ₃₃	108	6	Bytes	I6	
EXPONENT	114	2	Bytes	I2	
BLANKS	116	5	Bytes	5x	

RECORD FORMAT DESCRIPTION

File Type "191"

RECORD NAME

14. FIELD NAME	15. POSITION FROM -1 MEASURED IN (e.g. Min, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
ANGULAR COEFFICIENTS FOR DIRECTIONAL WAVES					
FILE TYPE	1	3	Bytes	I3	Always "191"
FILE DATE	4	6	Bytes	3I2	Yr., Mo., Day of file generation
RECORD TYPE	10	1	Byte	A1	Always "7"
STATION NUMBER	11	6	Bytes	A6	same as "1"
OBSERVED DATE	17	6	Bytes	3I2	Year, month, day (GMT)
OBSERVED TIME	23	4	Bytes	2I2	Hour, minutes (GMT)
FREQUENCY	27	4	Bytes	I4	Center frequency of interval Hz to .001
SPECTRAL RESOLUTION	31	5	Bytes	I5	Spectral resolution of this frequency band in Hz to ten thousandths
ANGULAR FOURIER	36	6	Bytes	signed integers I6	Up to 9 <u>corrected</u> values of the angular fourier coefficients in meters ² /Hz. The order of these coefficients is: a ₀ , a ₁ , b ₁ , a ₂ , b ₂ , a ₃ , b ₃ , a ₄ , b ₄
EXPONENT	42	2	Bytes	I2	
ANGULAR FOURIER COEFFICIENT	44	6	Bytes	I6	
EXPONENT	50	2	Bytes	I2	
ANGULAR FOURIER COEFFICIENT	52	6	Bytes	I6	
EXPONENT	58	2	Bytes	I2	
ANGULAR FOURIER COEFFICIENT	60	6	Bytes	I6	
EXPONENT	66	2	Bytes	I2	
ANGULAR FOURIER COEFFICIENT	68	6	Bytes	I6	
EXPONENT	74	2	Bytes	I2	
ANGULAR FOURIER COEFFICIENT	76	6	Bytes	I6	
EXPONENT	82	2	Bytes	I2	
ANGULAR FOURIER COEFFICIENT	84	6	Bytes	I6	
EXPONENT	90	2	Bytes	I2	
ANGULAR FOURIER COEFFICIENT	92	6	Bytes	I6	
EXPONENT	98	2	Bytes	I2	
ANGULAR FOURIER COEFFICIENT	100	6	Bytes	I6	
EXPONENT	106	2	Bytes	I2	
MEAN WAVE DIRECTION	108	3	Bytes	I3	Mean wave direction given by $\arctan b_1/a_1$ in whole degrees from true north (opt. entry)
BLANKS	111	10	Bytes	10X	Blanks

RECORD FORMAT DESCRIPTION

RECORD NAME

File Type "191"

14. FIELD NAME	15. POSITION FROM-1 MEASURED IN (e.g. Min, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
DIRECTIONAL WAVE DATA RECORD					
FILE TYPE	1	3	Bytes	A3	"191" (Constant)
FILE DATE	4	6	Bytes	3I2	Yr., Mo., Day of file generation
RECORD TYPE	10	1	Byte	A1	"8" (Directional Wave Data Record)
STATION	11	6	Bytes	A6	Inique name of observation point
OBSERVED DATE	17	6	Bytes	3I2	Year, Month, Day (GMT)
OBSERVED TIME	23	4	Bytes	2I2	Hours, Minutes (GMT)
COUNT	27	1	Byte	I1	Number of Frequencies on this Record (-1,2,or3)
FREQUENCY	28	4	Bytes	I4	Center of Band in HZ to Ten-Thousandths
RESOLUTION (BANDWIDTH)	32	4	Bytes	I4	Bandwidth in HZ to Ten-Thousandths
R1 (see below)	36	4	Bytes	I4	Recorded to Nearest Hundredth
R2 (see below)	40	4	Bytes	I4	Recorded to Nearest Hundredth
A1 (see below)	44	4	Bytes	I4	Recorded in Degrees to Tenths
A2 (see below)	48	4	Bytes	I4	Recorded in Degrees to Tenths
C11S (see below)	52	6	Bytes	I6	Recorded in Meters Squared HZ to Thousandths
FREQUENCY	58	4	Bytes	I4	Center of Band in HZ to Ten-Thousandths
RESOLUTION (BANDWIDTH)	62	4	Bytes	I4	Bandwidth in HZ to Ten-Thousandths
R1 (see below)	66	4	Bytes	I4	Recorded to Nearest Hundredth
R2 (see below)	70	4	Bytes	I4	Recorded to Nearest Hundredth
A1 (see below)	74	4	Bytes	I4	Recorded in Degrees to Tenths
A2 (see below)	78	4	Bytes	I4	Recorded in Degrees to Tenths
C11S (see below)	82	6	Bytes	I6	Recorded in Meters Squared/HZ to Thousandths
FREQUENCY	88	4	Bytes	I4	Center of Band in HZ to Ten-Thousandths
RESOLUTION (BANDWIDTH)	92	4	Bytes	I4	Bandwidth in HZ to Ten-Thousandths
R1 (see below)	96	4	Bytes	I4	Recorded to Nearest Hundredth
R2 (see below)	100	4	Bytes	I4	Recorded to Nearest Hundredth
A1 (see below)	104	4	Bytes	I4	Recorded to Degrees to Tenths
A2 (see below)	108	4	Bytes	I4	Recorded in Degrees to Tenths
C11S (see below)	112	6	Bytes	I6	Recorded in Meters Squared/HZ to Thousandths
BLANKS	118	3	Bytes	3X	Fill the fixed lengths record
<p>NOTE: DIRECTIONAL WAVE SPECTRA = $S(F,A)*D(F,A)$, in which F = FREQ(HZ), A = Azimuth Angle measured clockwise from North to direction wave is from. $D(F,A) = (1/PI)*((1/2)+R1*COS(A-A1)+R2*COS(2*(A-A2)))$, in which R1 and R2 are dimensionless and A1 and A2 are respectively mean and principal wave directions. In terms of Longuet-Higgins Fourier Coefficients, $R1 = (SQRT(A1*A1+B1*B1))/A0$, $R2 = (SQRT(A2*A2+B2*B2))/A0$, $A1 = ARCTAN(B1,A1)$, $A2 = (1/2)ARCTAN(B2,A2) + 0$ or PI. $C11S(M*H/HZ) = (C22+C33)/(K*K)$ 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., kWh, byte)	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)					
<p>¹Expansion Parameter.</p> <p>²Ten minute average winds are measured for minutes 0-9, 10-19, 20-29, 30-39, 40-49, and 50-59. The first set is for the ten minute period ending immediately before the End of Acquisition time. The remaining sets go back in time.</p> <p>For example, if End of Acquisition is 10:25, then the First Average will be for the time period 10:10 to 10:19, and the Second Average will be for the period 10:00 to 10:09. If End of Acquisition is 10:30, then the First Average will be for the time period 10:20 to 10:29.</p>					

Password:

accNo	flea	refNo	proj	inst	ship	startDate	cruise	catId
9000232	F291	BR9470	9999	313B	317F	1990/08/01	41001	193485
9000232	F291	BR9471	9999	313B	317F	1990/08/01	41002	193486
9000232	F291	BR9472	9999	313B	317F	1990/08/01	41006	193487
9000232	F291	BR9473	9999	313B	317F	1990/08/01	41008	193488
9000232	F291	BR9474	9999	313B	317F	1990/08/01	41009	193489
9000232	F291	BR9475	9999	313B	317F	1990/08/01	41010	193490
9000232	F291	BR9476	9999	313B	317F	1990/08/01	42001	193491
9000232	F291	BR9477	9999	313B	317F	1990/08/01	42002	193492
9000232	F291	BR9478	9999	313B	317F	1990/08/01	42003	193493
9000232	F291	BR9479	9999	313B	317F	1990/08/01	42007	193494
9000232	F291	BR9480	9999	313B	317F	1990/08/01	42015	193495
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