

01/16/91

TO: E/OC12 - Douglas Hamilton

E/OC11 - P. Hadsell

FROM: E/OC13 - A. Picciolo

SUBJECT: Data Transfer

The following listed data sets have been transferred as indicated:

Wind/Wave Spectra (F191)

Acc: 9000261 Ref: BR9568 - BR9670 103 sta. 737,122 rec.

NOAA NDBC

(September 1990)

cc: Division Director

ACCESS NUMBER	REF NUMBER	FILE TYPE	PROJ CODE	INST	PLAT	CRUISE NO	CRUISE START	CRUISE END	NUM STA	NUM REC
9000261	BR9568	F191		313B	317F	41001	09/01/90	09/30/90	1	7,888
9000261	BR9569	F191		313B	317F	41002	09/01/90	09/30/90	1	4,431
9000261	BR9570	F191		313B	317F	41006	09/01/90	09/30/90	1	7,852
9000261	BR9571	F191		313B	317F	41008	09/01/90	09/30/90	1	43,799
9000261	BR9572	F191		313B	317F	41009	09/01/90	09/30/90	1	14,343
9000261	BR9573	F191		313B	317F	41010	09/01/90	09/30/90	1	14,287
9000261	BR9574	F191		313B	317F	42001	09/03/90	09/30/90	1	7,131
9000261	BR9575	F191		313B	317F	42002	09/01/90	09/30/90	1	7,864
9000261	BR9576	F191		313B	317F	42003	09/01/90	09/30/90	1	7,890
9000261	BR9577	F191		313B	317F	42007	09/01/90	09/30/90	1	2,158
9000261	BR9578	F191		313B	317F	42015	09/01/90	09/27/90	1	35,138
9000261	BR9579	F191		313B	317F	42016	09/01/90	09/27/90	1	38,675
9000261	BR9580	F191		313B	317F	42019	09/01/90	09/30/90	1	7,181
9000261	BR9581	F191		313B	317F	42020	09/01/90	09/30/90	1	7,145
9000261	BR9582	F191		313B	317F	44001	09/18/90	09/30/90	1	11,614
9000261	BR9583	F191		313B	317F	44004	09/01/90	09/30/90	1	7,891
9000261	BR9584	F191		313B	317F	44005	09/01/90	09/30/90	1	7,887
9000261	BR9585	F191		313B	317F	44007	09/01/90	09/30/90	1	7,181
9000261	BR9586	F191		313B	317F	44008	09/01/90	09/30/90	1	7,879

19 248,234

103 - 737,122

ACCESS NUMBER	REF NUMBER	FILE TYPE	PROJ CODE	INST	PLAT	CRUISE NO	CRUISE START	CRUISE END	NUM STA	NUM REC
9000261	BR9587	F191		313B	317F	44009	09/01/90	09/30/90	1	7,154
9000261	BR9588	F191		313B	317F	44011	09/01/90	09/30/90	1	7,649
9000261	BR9589	F191		313B	317F	44012	09/06/90	09/30/90	1	5,324
9000261	BR9590	F191		313B	317F	44013	09/01/90	09/30/90	1	7,124
9000261	BR9591	F191		313B	317F	44015	09/19/90	09/30/90	1	15,929
9000261	BR9592	F191		313B	317F	45001	09/01/90	09/30/90	1	7,098
9000261	BR9593	F191		313B	317F	45002	09/01/90	09/30/90	1	8,592
9000261	BR9594	F191		313B	317F	45003	09/01/90	09/30/90	1	8,604
9000261	BR9595	F191		313B	317F	45004	09/01/90	09/30/90	1	8,580
9000261	BR9596	F191		313B	317F	45005	09/01/90	09/30/90	1	43,149
9000261	BR9597	F191		313B	317F	45006	09/01/90	09/30/90	1	7,170
9000261	BR9598	F191		313B	317F	45007	09/01/90	09/30/90	1	29,903
9000261	BR9599	F191		313B	317F	45008	09/01/90	09/30/90	1	8,606
9000261	BR9600	F191		313B	317F	46001	09/01/90	09/30/90	1	7,874
9000261	BR9601	F191		313B	317F	46002	09/01/90	09/30/90	1	7,082
9000261	BR9602	F191		313B	317F	46003	09/01/90	09/30/90	1	7,857
9000261	BR9603	F191		313B	317F	46006	09/01/90	09/30/90	1	7,586
9000261	BR9604	F191		313B	317F	46010	09/01/90	09/30/90	1	7,148
9000261	BR9605	F191		313B	317F	46011	09/01/90	09/30/90	1	8,576
9000261	BR9606	F191		313B	317F	46012	09/01/90	09/30/90	1	8,516
9000261	BR9607	F191		313B	317F	46013	09/01/90	09/30/90	1	5,280
9000261	BR9608	F191		313B	317F	46014	09/01/90	09/30/90	1	8,248
9000261	BR9609	F191		313B	317F	46022	09/15/90	09/30/90	1	4,360
9000261	BR9610	F191		313B	317F	46023	09/01/90	09/30/90	1	8,570
9000261	BR9611	F191		313B	317F	46025	09/01/90	09/30/90	1	5,682
9000261	BR9612	F191		313B	317F	46026	09/17/90	09/30/90	1	3,048
9000261	BR9613	F191		313B	317F	46027	09/01/90	09/30/90	1	7,026
9000261	BR9614	F191		313B	317F	46028	09/01/90	09/30/90	1	8,566
9000261	BR9615	F191		313B	317F	46030	09/01/90	09/30/90	1	4,622
9000261	BR9616	F191		313B	317F	46035	09/01/90	09/30/90	1	7,066
9000261	BR9617	F191		313B	317F	46040	09/01/90	09/30/90	1	7,103

31 289,092

ACCESS NUMBER	REF NUMBER	FILE TYPE	PROJ CODE	INST	PLAT	CRUISE NO	CRUISE START	CRUISE END	NUM STA	NUM REC
9000261	BR9618	F191		313B	317F	46041	09/01/90	09/30/90	1	6,986
9000261	BR9619	F191		313B	317F	46042	09/01/90	09/30/90	1	43,446
9000261	BR9620	F191		313B	317F	51001	09/01/90	09/30/90	1	8,550
9000261	BR9621	F191		313B	317F	51003	09/01/90	09/30/90	1	8,464
9000261	BR9622	F191		313B	317F	51004	09/01/90	09/30/90	1	8,464
9000261	BR9623	F191		313B	317F	52009	09/17/90	09/30/90	1	17,624
9000261	BR9624	F191		313B	317F	ALSN6	09/01/90	09/30/90	1	6,852
9000261	BR9625	F191		313B	317F	BURL1	09/01/90	09/30/90	1	2,144
9000261	BR9626	F191		313B	317F	BUZM3	09/01/90	09/21/90	1	978
9000261	BR9627	F191		313B	317F	CARO3	09/01/90	09/30/90	1	1,436
9000261	BR9628	F191		313B	317F	CHLV2	09/01/90	09/30/90	1	7,369
9000261	BR9629	F191		313B	317F	CLKN7	09/01/90	09/30/90	1	2,154
9000261	BR9630	F191		313B	317F	CSBF1	09/01/90	09/30/90	1	1,454
9000261	BR9631	F191		313B	317F	DBLN6	09/01/90	09/30/90	1	1,436
9000261	BR9632	F191		313B	317F	DESW1	09/01/90	09/30/90	1	1,434
9000261	BR9633	F191		313B	317F	DISW3	09/01/90	09/30/90	1	1,436
9000261	BR9634	F191		313B	317F	DPIA1	09/01/90	09/30/90	1	1,386
9000261	BR9635	F191		313B	317F	DSL7	09/01/90	09/30/90	1	7,663
9000261	BR9636	F191		313B	317F	ENIP2	09/01/90	09/30/90	1	1,430
9000261	BR9637	F191		313B	317F	FARP2	09/01/90	09/30/90	1	1,228
9000261	BR9638	F191		313B	317F	FBIS1	09/01/90	09/30/90	1	1,256
9000261	BR9639	F191		313B	317F	FFIA2	09/01/90	09/30/90	1	1,432
9000261	BR9640	F191		313B	317F	FPSN7	09/01/90	09/30/90	1	2,153
9000261	BR9641	F191		313B	317F	GBCL1	09/01/90	09/30/90	1	7,819
9000261	BR9642	F191		313B	317F	GDIL1	09/01/90	09/30/90	1	2,151
9000261	BR9643	F191		313B	317F	GLLN6	09/01/90	09/30/90	1	1,432
9000261	BR9644	F191		313B	317F	IOSN3	09/01/90	09/30/90	1	1,436
9000261	BR9645	F191		313B	317F	KOSP2	09/02/90	09/30/90	1	1,364
9000261	BR9646	F191		313B	317F	LKWF1	09/01/90	09/30/90	1	2,140
9000261	BR9647	F191		313B	317F	MDRM1	09/01/90	09/30/90	1	1,432
9000261	BR9648	F191		313B	317F	MISM1	09/01/90	09/30/90	1	1,438
9000261	BR9649	F191		313B	317F	MLRF1	09/01/90	09/30/90	1	1,432
9000261	BR9650	F191		313B	317F	MPCL1	09/01/90	09/30/90	1	7,523
9000261	BR9651	F191		313B	317F	NWPO3	09/01/90	09/30/90	1	1,438
9000261	BR9652	F191		313B	317F	PAGP2	09/01/90	09/30/90	1	1,402
9000261	BR9653	F191		313B	317F	PILM4	09/01/90	09/30/90	1	930
9000261	BR9654	F191		313B	317F	PTAC1	09/01/90	09/30/90	1	1,436
9000261	BR9655	F191		313B	317F	PTAT2	09/01/90	09/30/90	1	2,146
9000261	BR9656	F191		313B	317F	PTGC1	09/01/90	09/30/90	1	1,438
9000261	BR9657	F191		313B	317F	ROAM4	09/01/90	09/30/90	1	1,432
9000261	BR9658	F191		313B	317F	SAUF1	09/01/90	09/30/90	1	2,157
9000261	BR9659	F191		313B	317F	S BIO1	09/01/90	09/30/90	1	1,434
9000261	BR9660	F191		313B	317F	SGNW3	09/01/90	09/30/90	1	1,436
9000261	BR9661	F191		313B	317F	SISW1	09/01/90	09/30/90	1	1,432
9000261	BR9662	F191		313B	317F	SMKF1	09/01/90	09/30/90	1	1,430
9000261	BR9663	F191		313B	317F	SPGF1	09/01/90	09/30/90	1	2,153
9000261	BR9664	F191		313B	317F	SRST2	09/01/90	09/30/90	1	2,150
9000261	BR9665	F191		313B	317F	STDM4	09/01/90	09/30/90	1	1,290
9000261	BR9666	F191		313B	317F	SVLS1	09/01/90	09/30/90	1	4,051
9000261	BR9667	F191		313B	317F	TPLM2	09/01/90	09/30/90	1	2,152

00261	BR9668	F191	313B 317F	UJAP2	09/01/90	09/30/90	1	1,428
9000261	BR9669	F191	313B 317F	VENF1	09/01/90	09/30/90	1	2,146
9000261	BR9670	F191	313B 317F	WPOW1	09/01/90	09/30/90	1	1,373

53 199,796

ACCESSION NO. 9000261 FILETYPE F191

TRACK NO. BR9568-88 PROJECT IDENTIFICATION _____

STEP	DATE	INIT.	TAPE OR DISK DSN	NO. FILES	LRECL	BLK SIZE	NO. RECORDS
ORIG. TAPE	11-15-90	C.M.H.	A01309	1	120	4080	248200
DUPLICATE TAPE	12-12-90	F.J.M.	W11217	1	120	4800	248216
REFORMATTED TAPE			YES				
REFORMATTED DISK							
FIRST MULCHEK							
FINAL MULCHEK							
MPD75 OR F022							
DATA SET FINALIZED							

ERRORS REPORTED TO PRINCIPAL INVESTIGATOR:

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

COMMENTS (TRACKS DELETED, FIELDS DELETED, ETC.)

ACCESSION NO. 9000261

FILETYPE F191

TRACK NO. BR9587-9617

PROJECT IDENTIFICATION _____

STEP	DATE	INIT.	TAPE OR DISK DSN	NO. FILES	LRECL	BLK SIZE	NO. RECORDS
ORIG. TAPE	11-15-90	OMH OMH	A01310 *	1	120	4080	289068
DUPLICATE TAPE	1-3-91	FJM	W12208 *	1	120	4800	289,092
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.)

D191P

ACCESSION NO. 9000261 FILETYPE F191 TRACK NO. _____

PROJECT IDENTIFICATION _____

BR9618 - 9670

STEP	DATE	INIT.	TAPE OR DISK DSN	NO. FILES	LRECL	BLK SIZE	NO. RECORDS
ORIG. TAPE	11-15-90	C.M.H.	A01311 *	1	120	4080	199,784
DUPLICATE TAPE	1-14-91	F.J.M.	W13043 *	1	120	4800	199,796
REFORMATTED TAPE			NO				
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.)

BR9618.

REQUEST FOR ADP SERVICES

User Name <i>Cliff Hartley</i>	Phone # <i>673-3636</i>	Org/Task <i>EG1200EN3AH9</i>	Submit Date <i>11/09/90</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 A01309

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 A01309 to Bin 09

JOB INPUT

Id#/Filename: A01309

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: A01309

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: *90110904*

Completed By: *G.S.*

Date/Time Start: *11-15-90/12:45*

Date/Time Completed: *11-15-90/12:55*

REQUEST FOR ADP SERVICES

User Name <i>Cliff Hartley</i>	Phone # <i>673-5636</i>	Org/Task <i>EG1200583A149</i>	Submit Date <i>11/09/90</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 A01310

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 A01310 to Bin 09

JOB INPUT

Id#/Filename: A01310

- 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: A01310

- 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: *92/118903 JA*
 Completed By: _____

Date/Time Start: *11-15-90/13:00*
 Date/Time Completed: *11-15-90/13:10*

REQUEST FOR ADP SERVICES

User Name <i>Cliff Hartley</i>	Phone # <i>673-5636</i>	Org/Task <i>EG-12008X377H9</i>	Submit Date <i>11/09/90</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 A01311
A01311*

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 A01311 to Bin 09

JOB INPUT

Id#/Filename: A01311

- 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: A01311

- 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: *90118982*
Completed By: *J.S.*

Date/Time Start: *11-15-90/13:15*
Date/Time Completed: *11-15-90/13:20*



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

October 31, 1990

F1804-02
DB3:90-0535
SPN:ldm

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 September 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
ADP Manager

Enclosures



Acc # 9000261

A 01309

A 01310

A 01311



Attachment

Tape 1: 41001 09019000-09309023
41002 09019000-09309023
41006 09019000-09309023
41008 09019000-09309023
41009 09019000-09309023
41010 09019000-09309023
42001 09039021-09309023
42002 09019000-09309023
42003 09019000-09309023
42007 09019000-09309023
42015 09019000-09279015
42016 09019000-09279014
42019 09019000-09309023
42020 09019000-09309023
44001 09189021-09309023
44004 09019000-09309023
44005 09019000-09309023
44007 09019000-09309023
44008 09019000-09309023

Tape 2: 44009 09019000-09309023
44011 09019000-09309023
44012 09069001-09309023
44013 09019000-09309023
44015 09199022-09309023
45001 09019000-09309023
45002 09019000-09309023
45003 09019000-09309023
45004 09019000-09309023
45005 09019000-09309023
45006 09019000-09309023
45007 09019000-09309023
45008 09019000-09309023
46001 09019000-09309023
46002 09019000-09309023
46003 09019000-09309023
46006 09019000-09309023
46010 09019000-09309023
46011 09019000-09309023
46012 09019000-09309023
46013 09019000-09309023
46014 09019000-09309023
46022 09159017-09309023
46023 09019000-09309023
46025 09019000-09309023
46026 09179021-09309023
46027 09019000-09309023
46028 09019000-09309023
46030 09019000-09309023

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31
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103

19

31

46035 09019000-09309023
46040 09019000-09309023

Tape 3: 46041 09019000-09309023
46042 09019000-09309023
51001 09019000-09309023
51003 09019000-09309023
51004 09019000-09309023
52009 09179009-09309023
ALSN6 09019000-09309023
BURL1 09019000-09309023
BUZM3 09019000-09219011
CARO3 09019000-09309023
CHLV2 09019000-09309023
CLKN7 09019000-09309023
CSBF1 09019000-09309023
DBLN6 09019000-09309023
DESW1 09019000-09309023
DISW3 09019000-09309023
DPIA1 09019000-09309023
DSLN7 09019000-09309023
ENIP2 09019000-09309023
FARP2 09019000-09309023
FBIS1 09019000-09309023
FFIA2 09019000-09309023
FPSN7 09019000-09309023
GBCL1 09019000-09309023
GDIL1 09019000-09309023
GLLN6 09019000-09309023
IOSN3 09019000-09309023
KOSP2 09029003-09309023
LKWF1 09019000-09309023
MDRM1 09019000-09309023
MISM1 09019000-09309023
MLRF1 09019000-09309023
MPCL1 09019000-09309023
NWPO3 09019000-09309023
PAGP2 09019000-09309023
PILM4 09019000-09309023
PTAC1 09019000-09309023
PTAT2 09019000-09309023
PTGC1 09019000-09309023
ROAM4 09019000-09309023
SAUF1 09019000-09309023
SBIO1 09019000-09309023
SGNW3 09019000-09309023
SISW1 09019000-09309023
SMKF1 09019000-09309023
SPGF1 09019000-09309023
SRST2 09019000-09309023
STDM4 09019000-09309023

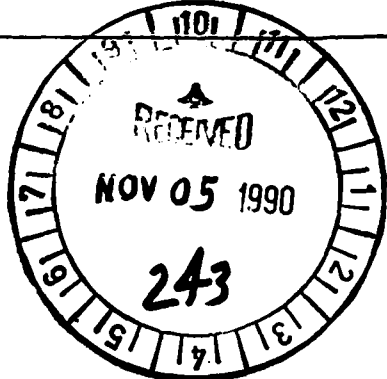
SVLS1 09019000-09309023
TPLM2 09019000-09309023
UJAP2 09019000-09309023
VENF1 09019000-09309023
WPOW1 09019000-09309023

53

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 <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., Min, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
DESCRIPTIVE HEADER RECORD					
FILE TYPE	1	3	Bytes	A3	"191" (constant)
FILE DATE	4	6	Bytes	3I2	Yr.,Mo.,Day of file generation
RECORD TYPE	10	1	Byte	A1	"1" (Descriptive header record)
STATION	11	6	Bytes	A6	Unique name of observation point
OBSERVED DATE	17	6	Bytes	3I2	Year, Month, Day (GMT)
OBSERVED TIME	23	4	Bytes	2I2	Hours, Minutes (GMT)
LATITUDE	27	6	Bytes	3I2	Degrees, Minutes, Seconds
LAT. HEMISPHERE	33	1	Byte	A1	"N" or "S" Hemisphere
LONGITUDE	34	7	Bytes	13, 2I2	Degrees, Minutes, Seconds
LON. HEMISPHERE	41	1	Byte	A1	"E" OR "W" HEMISPHERE
BOTTOM DEPTH	42	5	Bytes	I5	Meters to tenths
MAGNETIC VARIATION	47	4	Bytes	I4	Whole degrees from true north (signed value)
BUOY HEADING*	51	3	Bytes	I3	Whole degrees from true north
WAVE SAMPLING RATE*	54	4	Bytes		I4Original measurements per minute to tenths
WAVE SAMPLING DURATION*	58	4	Bytes	I4	Minutes to hundredths
WAVE TOTAL INTERVALS*	62	3	Bytes	I3	Number of frequency intervals
CHIEF SCIENTIST INSTITUTION	65	20	Bytes	A20	A20(optional) Data source
WIND SAMPLING DURATION	85	20	Bytes	I3	Minutes to tenths
COMMENTS *for buoy data only	105	3	Bytes		
	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	Temperature, Celsius to tenths
BAROMETER	38	5	Bytes	I5	Millibars to tenths (reduced to sea level)
WIND SPEED	43	4	Bytes	I4	Meters/sec. to hundredths
WIND DIRECTION	47	4	Bytes	I4	From true north, degrees to tenths
WEATHER	51	1	Byte	I1	Current weather (WMO Code 4501)
VISIBILITY	52	3	Bytes	I3	Nautical miles, to tenths

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

RECORD FORMAT DESCRIPTION

File Type "191"

RECORD NAME

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

RECORD FORMAT DESCRIPTION

RECORD NAME File Type "191"

14. FIELD NAME	15. POSITION FROM -1 MEASURED IN (e.g., 000, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
DIRECTIONAL WAVE DATA RECORD					
FILE TYPE	1	3	Bytes	A3	"191" (Constant)
FILE DATE	4	6	Bytes	3I2	Yr., Mo., Day of file generation
RECORD TYPE	10	1	Byte	A1	"8" (Directional Wave Data Record)
STATION	11	6	Bytes	A6	Inique name of observation point
OBSERVED DATE	17	6	Bytes	3I2	Year, Month, Day (GMT)
OBSERVED TIME	23	4	Bytes	2I2	Hours, Minutes (GMT)
COUNT	27	1	Byte	I1	Number of Frequencies on this Record (=1,2,or3)
FREQUENCY	28	4	Bytes	I4	Center of Band in HZ to Ten-Thousandths
RESOLUTION (BANDWIDTH)	32	4	Bytes	I4	Bandwidth in HZ to Ten-Thousandths
R1 (see below)	36	4	Bytes	I4	Recorded to Nearest Hundredth
R2 (see below)	40	4	Bytes	I4	Recorded to Nearest Hundredth
A1 (see below)	44	4	Bytes	I4	Recorded in Degrees to Tenths
A2 (see below)	48	4	Bytes	I4	Recorded in Degrees to Tenths
C11S (see below)	52	6	Bytes	I6	Recorded in Meters Squared HZ to Thousandths
FREQUENCY	58	4	Bytes	I4	Center of Band in HZ to Ten-Thousandths
RESOLUTION (BANDWIDTH)	62	4	Bytes	I4	Bandwidth in HZ to Ten-Thousandths
R1 (see below)	66	4	Bytes	I4	Recorded to Nearest Hundredth
R2 (see below)	70	4	Bytes	I4	Recorded to Nearest Hundredth
A1 (see below)	74	4	Bytes	I4	Recorded in Degrees to Tenths
A2 (see below)	78	4	Bytes	I4	Recorded in Degrees to Tenths
C11S (see below)	82	6	Bytes	I6	Recorded in Meters Squared/HZ to Thousandths
FREQUENCY	88	4	Bytes	I4	Center of Band in HZ to Ten-Thousandths
RESOLUTION (BANDWIDTH)	92	4	Bytes	I4	Bandwidth in HZ to Ten-Thousandths
R1 (see below)	96	4	Bytes	I4	Recorded to Nearest Hundredth
R2 (see below)	100	4	Bytes	I4	Recorded to Nearest Hundredth
A1 (see below)	104	4	Bytes	I4	Recorded to Degrees to Tenths
A2 (see below)	108	4	Bytes	I4	Recorded in Degrees to Tenths
C11S (see below)	112	6	Bytes	I6	Recorded in Meters Squared/HZ to Thousandths
BLANKS	118	3	Bytes	3X	Fill the fixed lengths record
<p>NOTE: DIRECTIONAL WAVE SPECTRA = $S(F,A)*D(F,A)$, in which F = FREQ(HZ), A = Azimuth Angle measured clockwise from North to direction wave is from. $D(F,A) = (1/PI)*((1/2)+R1*COS(A-A1)+R2*COS(2*(A-A2)))$, in which R1 and R2 are dimensionless and A1 and A2 are respectively mean and principal wave directions. In terms of Longuet-Higgins Fourier Coefficients, $R1 = (SQRT(A1*A1+B1*B1))/A0$, $R2 = (SQRT(A2*A2+B2*B2))/A0$, $A1 = ARCTAN(B1,A1)$, $A2 = (1/2)ARCTAN(B2,A2) + 0$ or PI. $C11S(M*M/HZ) = (C22+C33)/(K*K)$ in which K, the propagation constant, is the solution to $W*W = G*K*TANH(K*D)$, in which $W = 2*PI*F$, $G = 9.806$ M/(SEC*SEC), and D is mean water depth in meters.</p>					

RECORD FORMAT DESCRIPTION

RECORD NAME File Type "191"

13. FIELD NAME	15. POSITION FROM - 1 MEASURED IN (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
CONTINUOUS WIND MEASUREMENT					
FIELD TYPE	1	3	Bytes	I3	Always "191"
FILE DATE	4	6	Bytes	3I2	Yr.,Mo.,Day of file generation
RECORD TYPE	10	1	Byte	A1	Always "9"
STATION NUMBER	11	6	Bytes	A6	See Record '1'
REPORT DATE	17	6	Bytes	3I2	Year, Month, Day (UTC)
REPORT TIME	23	4	Bytes	2I2	Hour, Minutes (UTC)
SPEED AVERAGING METHOD	27	1	Byte	I1	1-Vector, 2-Scalar
STANDARD DEVIATION OF HOURLY SPEED	28	3	Bytes	I3	M/S to Tenths
STANDARD DEVIATION OF HOURLY DIRECTION ¹	31	4	Bytes	I4	Whole Degrees
HOURLY PEAK WIND DIRECTION OF HOURLY PEAK	35	3	Bytes	I3	M/S to Tenths
MINUTE OF HOURLY PEAK	38	3	Bytes	I3	Whole Degrees
END OF ACQUISITION TIME	41	2	Bytes	I2	Minutes (UTC)
FIRST AVERAGE DIRECTION ²	43	4	Bytes	2I2	Hour, Minutes (UTC)
FIRST AVERAGE SPEED	47	3	Bytes	I3	Whole Degrees
SECOND AVERAGE DIRECTION	50	3	Bytes	I3	M/S to Tenths
SECOND AVERAGE SPEED	53	3	Bytes	I3	Whole Degrees
THIRD AVERAGE DIRECTION	56	3	Bytes	I3	M/S to Tenths
THIRD AVERAGE SPEED	59	3	Bytes	I3	Whole Degrees
FOURTH AVERAGE DIRECTION	62	3	Bytes	I3	M/S to Tenths
FOURTH AVERAGE SPEED	65	3	Bytes	I3	Whole Degrees
FIFTH AVERAGE DIRECTION	68	3	Bytes	I3	M/S to Tenths
FIFTH AVERAGE SPEED	71	3	Bytes	I3	Whole Degrees
SIXTH AVERAGE DIRECTION	74	3	Bytes	I3	M/S to Tenths
SIXTH AVERAGE SPEED	77	3	Bytes	I3	Whole Degrees
SIXTH AVERAGE SPEED	80	3	Bytes	I3	M/S to Tenths

File Type RECORD FORMAT DESCRIPTION

RECORD NAME _____

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN <small>(e.g. Min, bytes)</small>	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
9000261	F291	BR9568	9999	313B	317F	1990/09/01	41001	193729
9000261	F291	BR9569	9999	313B	317F	1990/09/01	41002	193730
9000261	F291	BR9570	9999	313B	317F	1990/09/01	41006	193731
9000261	F291	BR9571	9999	313B	317F	1990/09/01	41008	193732
9000261	F291	BR9572	9999	313B	317F	1990/09/01	41009	193733
9000261	F291	BR9573	9999	313B	317F	1990/09/01	41010	193734
9000261	F291	BR9574	9999	313B	317F	1990/09/03	42001	193735
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