

ACCESS NUMBER	REF NUMBER	FILE TYPE	PROJ CODE	INST	PLAT	CRUISE NO	CRUISE START	CRUISE END	NUM STA	NUM REC
9200020	BS1131	F291		313B	317F	32302	12/01/91	12/31/91	1	7,306
9200020	BS1132	F291		313B	317F	41001	12/01/91	12/31/91	1	8,162
9200020	BS1133	F291		313B	317F	41002	12/01/91	12/31/91	1	2,976
9200020	BS1134	F291		313B	317F	41008	12/01/91	12/31/91	1	45,144
9200020	BS1135	F291		313B	317F	41009	12/01/91	12/31/91	1	14,820
9200020	BS1136	F291		313B	317F	41010	12/01/91	12/31/91	1	14,804
9200020	BS1137	F291		313B	317F	42001	12/01/91	12/31/91	1	8,162
9200020	BS1138	F291		313B	317F	42002	12/01/91	12/31/91	1	8,173
9200020	BS1139	F291		313B	317F	42003	12/01/91	12/31/91	1	8,172
9200020	BS1140	F291		313B	317F	42007	12/09/91	12/31/91	1	1,185
9200020	BS1141	F291		313B	317F	42019	12/01/91	12/31/91	1	7,440
9200020	BS1142	F291		313B	317F	42020	12/04/91	12/31/91	1	6,550
9200020	BS1143	F291		313B	317F	42025	12/01/91	12/31/91	1	7,406
9200020	BS1144	F291		313B	317F	44004	12/01/91	12/31/91	1	8,150
9200020	BS1145	F291		313B	317F	44007	12/01/91	12/31/91	1	7,322
9200020	BS1146	F291		313B	317F	44008	12/01/91	12/31/91	1	7,769
9200020	BS1147	F291		313B	317F	44009	12/01/91	12/31/91	1	7,430
9200020	BS1148	F291		313B	317F	44011	12/01/91	12/31/91	1	8,144
9200020	BS1149	F291		313B	317F	44012	12/01/91	12/31/91	1	7,422
9200020	BS1150	F291		313B	317F	44013	12/01/91	12/31/91	1	7,430
9200020	BS1151	F291		313B	317F	44014	12/01/91	12/31/91	1	45,264
9200020	BS1152	F291		313B	317F	44025	12/01/91	12/31/91	1	39,917
9200020	BS1153	F291		313B	317F	45002	12/01/91	12/31/91	1	8,916
9200020	BS1154	F291		313B	317F	46001	12/01/91	12/31/91	1	8,042
9200020	BS1155	F291		313B	317F	46003	12/01/91	12/31/91	1	8,089
9200020	BS1156	F291		313B	317F	46005	12/01/91	12/31/91	1	8,126
9200020	BS1157	F291		313B	317F	46012	12/01/91	12/31/91	1	7,370
9200020	BS1158	F291		313B	317F	46013	12/01/91	12/31/91	1	8,888
9200020	BS1159	F291		313B	317F	46014	12/19/91	12/31/91	1	3,744
9200020	BS1160	F291		313B	317F	46022	12/01/91	12/31/91	1	7,350
9200020	BS1161	F291		313B	317F	46023	12/01/91	12/31/91	1	7,410
9200020	BS1162	F291		313B	317F	46025	12/01/91	12/31/91	1	44,900
9200020	BS1163	F291		313B	317F	46026	12/01/91	12/31/91	1	7,380
9200020	BS1164	F291		313B	317F	46027	12/13/91	12/31/91	1	4,492
9200020	BS1165	F291		313B	317F	46029	12/01/91	12/31/91	1	8,906
9200020	BS1166	F291		313B	317F	46030	12/13/91	12/27/91	1	3,054
9200020	BS1167	F291		313B	317F	46035	12/01/91	12/31/91	1	8,266
9200020	BS1168	F291		313B	317F	46A35	12/01/91	12/31/91	1	2,111
9200020	BS1169	F291		313B	317F	46040	12/01/91	12/31/91	1	7,354
9200020	BS1170	F291		313B	317F	46041	12/01/91	12/31/91	1	7,246
9200020	BS1171	F291		313B	317F	46042	12/01/91	12/31/91	1	44,717
9200020	BS1172	F291		313B	317F	46045	12/01/91	12/31/91	1	45,144
9200020	BS1173	F291		313B	317F	46047	12/04/91	12/31/91	1	6,530
9200020	BS1174	F291		313B	317F	46048	12/05/91	12/31/91	1	6,272
9200020	BS1175	F291		313B	317F	46050	12/01/91	12/31/91	1	43,189
9200020	BS1176	F291		313B	317F	51001	12/12/91	12/31/91	1	5,724
9200020	BS1177	F291		313B	317F	51002	12/01/91	12/31/91	1	8,864
9200020	BS1178	F291		313B	317F	51003	12/01/91	12/31/91	1	4,668
9200020	BS1179	F291		313B	317F	51004	12/01/91	12/31/91	1	2,966
9200020	BS1180	F291		313B	317F	52009	12/19/91	12/31/91	1	18,790

9200020	BS1181	F291	313B	317F	91222	12/01/91	12/31/91	1	1,448
9200020	BS1182	F291	313B	317F	91251	12/01/91	12/31/91	1	1,484
9200020	BS1183	F291	313B	317F	91343	12/01/91	12/31/91	1	1,480
9200020	BS1184	F291	313B	317F	91353	12/01/91	12/31/91	1	1,486
9200020	BS1185	F291	313B	317F	91365	12/01/91	12/31/91	1	1,476
9200020	BS1186	F291	313B	317F	91377	12/01/91	12/31/91	1	1,488
9200020	BS1187	F291	313B	317F	ALSN6	12/01/91	12/31/91	1	5,524
9200020	BS1188	F291	313B	317F	BURL1	12/01/91	12/31/91	1	2,074
9200020	BS1189	F291	313B	317F	BUZM3	12/01/91	12/31/91	1	1,488
9200020	BS1190	F291	313B	317F	CARO3	12/01/91	12/31/91	1	1,484
9200020	BS1191	F291	313B	317F	CHLV2	12/01/91	12/31/91	1	7,997
9200020	BS1192	F291	313B	317F	CLKN7	12/01/91	12/31/91	1	2,028
9200020	BS1193	F291	313B	317F	CSBF1	12/01/91	12/31/91	1	2,225
9200020	BS1194	F291	313B	317F	DBLN6	12/01/91	12/31/91	1	1,486
9200020	BS1195	F291	313B	317F	DESW1	12/01/91	12/31/91	1	1,486
9200020	BS1196	F291	313B	317F	DISW3	12/01/91	12/31/91	1	1,488
9200020	BS1197	F291	313B	317F	DPIA1	12/01/91	12/31/91	1	1,476
9200020	BS1198	F291	313B	317F	DSLN7	12/01/91	12/31/91	1	7,354
9200020	BS1199	F291	313B	317F	FBIS1	12/01/91	12/31/91	1	2,229
9200020	BS1200	F291	313B	317F	FFIA2	12/01/91	12/31/91	1	1,486
9200020	BS1201	F291	313B	317F	FPSN7	12/01/91	12/31/91	1	2,229
9200020	BS1202	F291	313B	317F	FWYF1	12/01/91	12/31/91	1	2,228
9200020	BS1203	F291	313B	317F	GBCL1	12/01/91	12/31/91	1	6,104
9200020	BS1204	F291	313B	317F	GDIL1	12/01/91	12/31/91	1	2,213
9200020	BS1205	F291	313B	317F	GLLN6	12/01/91	12/31/91	1	1,486
9200020	BS1206	F291	313B	317F	IOSN3	12/01/91	12/31/91	1	1,408
9200020	BS1207	F291	313B	317F	KOSP2	12/01/91	12/31/91	1	1,210
9200020	BS1208	F291	313B	317F	LNEL1	12/01/91	12/31/91	1	1,418
9200020	BS1209	F291	313B	317F	MDRM1	12/01/91	12/31/91	1	1,484
9200020	BS1210	F291	313B	317F	MISM1	12/01/91	12/31/91	1	1,352
9200020	BS1211	F291	313B	317F	MLRF1	12/01/91	12/31/91	1	2,229
9200020	BS1212	F291	313B	317F	MPCL1	12/01/91	12/31/91	1	3,448
9200020	BS1213	F291	313B	317F	NWPO3	12/01/91	12/31/91	1	1,482
9200020	BS1214	F291	313B	317F	PILM4	12/01/91	12/31/91	1	1,484
9200020	BS1215	F291	313B	317F	PTAC1	12/01/91	12/31/91	1	1,486
9200020	BS1216	F291	313B	317F	PTAT2	12/01/91	12/31/91	1	2,228
9200020	BS1217	F291	313B	317F	PTGC1	12/01/91	12/31/91	1	1,474
9200020	BS1218	F291	313B	317F	ROAM4	12/01/91	12/31/91	1	1,486
9200020	BS1219	F291	313B	317F	SANF1	12/01/91	12/31/91	1	2,226
9200020	BS1220	F291	313B	317F	SAUF1	12/01/91	12/31/91	1	2,228
9200020	BS1221	F291	313B	317F	S BIO1	12/01/91	12/31/91	1	1,486
9200020	BS1222	F291	313B	317F	SGNW3	12/01/91	12/31/91	1	1,484
9200020	BS1223	F291	313B	317F	SISW1	12/01/91	12/31/91	1	1,484
9200020	BS1224	F291	313B	317F	SMKF1	12/01/91	12/31/91	1	2,226
9200020	BS1225	F291	313B	317F	SPGF1	12/01/91	12/31/91	1	2,231
9200020	BS1226	F291	313B	317F	SRST2	12/01/91	12/31/91	1	2,228
9200020	BS1227	F291	313B	317F	STD M4	12/01/91	12/31/91	1	1,488
9200020	BS1228	F291	313B	317F	SVLS1	12/01/91	12/29/91	1	6,566
9200020	BS1229	F291	313B	317F	TPLM2	12/01/91	12/31/91	1	2,232
9200020	BS1230	F291	313B	317F	TTIW1	12/01/91	12/31/91	1	1,484
9200020	BS1231	F291	313B	317F	VENF1	12/01/91	12/31/91	1	2,228
9200020	BS1232	F291	313B	317F	WPOW1	12/01/91	12/31/91	1	1,495

1232
1131

9200020

FILETYPE F391

TRACK NO. _____

BS1131-1232

	DATE	INIT.	TAPE OR DISK DSH	NO. FILES	RECL	BLK SIZE	NO. RECORDS
	01/31/92	CMK	Aφ1526	1	120	4080	743,886
CARTRIDGE	9-23-92	FJM	B38148 *	1	120	4800	↓
TAPE							
DISK							
VALIZED							

~~REPORTED TO PRINCIPAL INVESTIGATOR:~~

Tape Aφ1526 is 9 TRK, NL, Acii, 6250 density

* = CARTRIDGE

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

User Name <i>Cliff Hartley</i>	Phone # <i>606-4636</i>	Org/Task <i>E612008V3AV1</i>	Submit Date <i>01/31/92</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 checked="" 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 AΦ1526

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 AΦ1526 to Bin Φ9

JOB INPUT

Id#/Filename: _____

AΦ1526

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: _____

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: *92Φ131Φ9*

Completed By: _____

g.s

Date/Time Start: *1-31-92/13:35*

Date/Time Completed: *1-31-92/13:40*



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

January 30, 1992

F1804-02
DB3:92-0034
SPN:pl

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

Dear Mr. Picciolo:

Enclosed is the December 1991, Nine Track, 6250 BPI, archive tape, recorded in the archive File Type 291 tape format. The enclosure contains a list of stations and the inclusive dates that are on the tape.

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

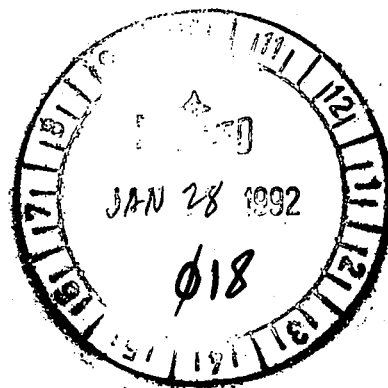
Sincerely,

Sallie P. Nolan

S. P. Nolan
ADP Manager

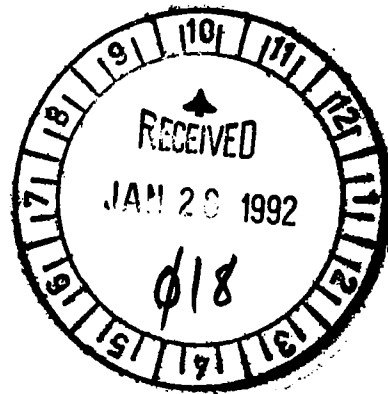
Enclosure

1721
920020
AA1526



DECEMBER 1991

32302 12/01/91/00 12/31/91/23
41001 12/01/91/00 12/31/91/23
41002 12/01/91/00 12/31/91/23
41008 12/01/91/00 12/31/91/23
41009 12/01/91/00 12/31/91/23
41010 12/01/91/00 12/31/91/23
42001 12/01/91/00 12/31/91/23
42002 12/01/91/00 12/31/91/23
42003 12/01/91/00 12/31/91/23
42007 12/09/91/00 12/31/91/23
42019 12/01/91/00 12/31/91/23
42020 12/04/91/17 12/31/91/23
42025 12/01/91/00 12/31/91/23
44004 12/01/91/00 12/31/91/23
44007 12/01/91/00 12/31/91/23
44008 12/01/91/00 12/31/91/23
44009 12/01/91/00 12/31/91/23
44011 12/01/91/00 12/31/91/23
44012 12/01/91/00 12/31/91/23
44013 12/01/91/00 12/31/91/23
44014 12/01/91/00 12/31/91/23
44025 12/01/91/00 12/31/91/23
45002 12/01/91/00 12/31/91/23
46001 12/01/91/00 12/31/91/23
46003 12/01/91/00 12/31/91/23
46005 12/01/91/00 12/31/91/23
46012 12/01/91/00 12/31/91/23
46013 12/01/91/00 12/31/91/23
46014 12/19/91/00 12/31/91/23
46022 12/01/91/00 12/31/91/23
46023 12/01/91/00 12/31/91/23
46025 12/01/91/00 12/31/91/23
46026 12/01/91/00 12/31/91/23
46027 12/13/91/00 12/31/91/23
46029 12/01/91/00 12/31/91/23
46030 12/13/91/21 12/31/91/23
46035 12/01/91/00 12/31/91/23
46A35 12/01/91/00 12/31/90/23 ← 2ND PAY
46040 12/01/91/00 12/31/91/23
46041 12/01/91/00 12/31/91/23
46042 12/01/91/00 12/31/91/23
46045 12/01/91/00 12/31/91/23
46047 12/04/91/18 12/31/90/23
46048 12/05/91/19 12/31/91/23
46050 12/01/91/00 12/31/91/23
51001 12/12/91/02 12/31/91/23
51002 12/01/91/00 12/31/91/23
51003 12/01/91/00 12/31/91/23
51004 12/01/91/00 12/31/91/23
52009 12/19/91/00 12/31/91/23
91222 12/01/91/00 12/31/91/23
91251 12/01/91/00 12/31/91/23
91343 12/01/91/00 12/31/91/23
91353 12/01/91/00 12/31/91/23
91365 12/01/91/00 12/31/91/23
91377 12/01/91/00 12/31/91/23
ALSN6 12/01/91/00 12/31/91/23
BURL1 12/01/91/00 12/31/91/23
BUZM3 12/01/91/00 12/31/91/23
CARO3 12/01/91/00 12/31/91/23
CHLV2 12/01/91/00 12/31/91/23
CLKN7 12/01/91/00 12/31/91/23



CSBF1 12/01/91/00 12/31/91/23
DBLN6 12/01/91/00 12/31/91/23
DESW1 12/01/91/00 12/31/91/23
DISW3 12/01/91/00 12/31/91/23
DPIA1 12/01/91/00 12/31/91/23
DSLN7 12/01/91/00 12/31/91/23
FBIS1 12/01/91/00 12/31/91/23
FFIA2 12/01/91/00 12/31/91/23
FPSN7 12/01/91/00 12/31/91/23
FWYF1 12/01/91/00 12/31/91/23
GBCL1 12/01/91/00 12/31/91/23
GDIL1 12/01/91/00 12/31/91/23
GLLN6 12/01/91/00 12/31/91/23
IOSN3 12/01/91/00 12/31/91/23
KOSP2 12/01/91/00 12/31/91/23
LNEL1 12/01/91/00 12/31/91/23
MDRM1 12/01/91/00 12/31/91/23
MISM1 12/01/91/00 12/31/91/23
MLRF1 12/01/91/00 12/31/91/23
MPCL1 12/01/91/00 12/31/91/23
NWPO3 12/01/91/00 12/31/91/23
PILM4 12/01/91/00 12/31/91/23
PTAC1 12/01/91/00 12/31/91/23
PTAT2 12/01/91/00 12/31/91/23
PTGC1 12/01/91/00 12/31/91/23
ROAM4 12/01/91/00 12/31/91/23
SANF1 12/01/91/00 12/31/91/23
SAUF1 12/01/91/00 12/31/91/23
SBIO1 12/01/91/00 12/31/91/23
SGNW3 12/01/91/00 12/31/91/23
SISW1 12/01/91/00 12/31/91/00
SMKF1 12/01/91/00 12/31/91/23
SPGF1 12/01/91/00 12/31/91/23
SRST2 12/01/91/00 12/31/91/23
STDMA 12/01/91/00 12/31/91/23
SVLS1 12/01/91/00 12/29/91/01
TPLM2 12/01/91/00 12/31/91/23
TTIW1 12/01/91/00 12/31/91/23
VENF1 12/01/91/00 12/31/91/23
WPOW1 12/01/91/00 12/31/91/23

C. DATA FORMAT

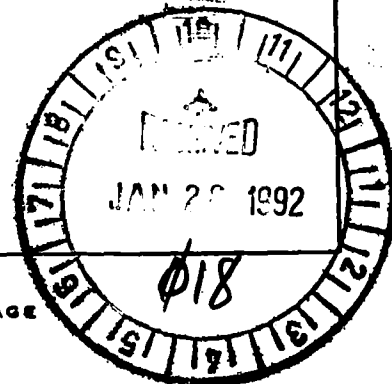
COMPLETE THIS SECTION FOR PUNCHED CARDS OR TAPE, MAGNETIC TAPE, OR DISC SUBMISSIONS.

**1. LIST RECORD TYPES CONTAINED IN THE TRANSMITTAL OF YOUR FILE
GIVE METHOD OF IDENTIFYING EACH RECORD TYPE**

See attached - Meteorology Oceanography & Wave Spectra (File Type 291) description.

2. GIVE BRIEF DESCRIPTION OF FILE ORGANIZATION

Each record is 120 characters in length, sorted by station and record type. Record type is omitted where data defined in that type are not measured.



3. ATTRIBUTES AS EXPRESSED IN

<input type="checkbox"/> PL-1	<input type="checkbox"/> ALGOL	<input type="checkbox"/> COBOL
<input checked="" type="checkbox"/> FORTRAN	<input type="checkbox"/> _____	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 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 type="checkbox"/> 1600 BPI</p> <p><input type="checkbox"/> 336 BPI</p> <p><input type="checkbox"/> 800 BPI</p> <p><input checked="" type="checkbox"/> 6250 BPI</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>

FILE TYPE 291 - METEOROLOGY OCEANOGRAPHY AND WAVE SPECTRA

THIS FORMAT IS USED TO REPORT METEOROLOGICAL, OCEANOGRAPHIC, AND WAVE SPECTRA DATA FROM NDBC MOORED BUOYS AND FIXED LAND STATIONS. THE FORMAT CONTAINS TEN DATA RECORD TYPES TO:

- 1) IDENTIFY THE BUOY POSITION AND OTHER DESCRIPTIVE INFORMATION;
- 2) REPORT THE METEOROLOGICAL MEASUREMENTS;
- 3) REPORT WAVE ENERGY SPECTRA AND WAVE DIRECTION;
- 4) REPORT SUBSURFACE PHYSICAL, BIOLOGICAL AND CHEMICAL OCEANOGRAPHIC MEASUREMENTS; AND
- 5) REPORT DETAILED INFORMATION ON CONTINUOUSLY MEASURED WIND SPEED AND DIRECTION.

*****NOTE*****

THIS FORMAT REPLACES FILE TYPE 191 WHICH IN TURN REPLACED 091.

03/30/81 - ADDED WIND SPEED AND DIRECTION TO RECORD TYPE '2'

12/28/81 - ADDED RECORD TYPES '6' AND '7'

11/04/85 - ADDED RECORD TYPE '8'

01/01/88 - ADDED RECORD TYPE '9'

01/30/91 - DESIGNED F291 TO:

- 1) RELABEL RECORD TYPES - RECORD TYPES 1 THROUGH 5 BECOMING A THROUGH E; ADD NEW RECORD TYPE F; AND RELABEL 6 THROUGH 9 AS G THROUGH J;
- 2) ADD A PRESENCE OF A RECORD INDICATOR IN RECORD TYPE 'A';
- 3) REDEFINE RECORD TYPE B BY DELETING "HIGHEST CREST" AND "DEEPEST THROUGH" AND INSERTING "WATER LEVEL";
- 4) IDENTIFY RECORD TYPE C AS "NON-DIRECTIONAL WAVE SPECTRA DATA RECORD";
- 5) DELETE DEFINITION OF COLUMNS 27 THROUGH 33 IN RECORD C AND REPLACE WITH 7 BLANKS;
- 6) ADD A DURATION OF SAMPLING FIELD AT THE END OF RECORD D;
- 7) DEFINE RECORD TYPE E TO PROVIDE ONLY SUBSURFACE CURRENT INFORMATION; AND
- 8) DEFINE NEW RECORD TYPE F TO PROVIDE SUBSURFACE PHOTOSYNTHETIC ACTIVE RADIATION.

RECORD FORMAT DESCRIPTION

RECORD NAME Meteorology Oceanography & Wave Spectra (File Type "291")

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		
DESCRIPTIVE HEADER RECORD (RECORD A)					
FILE TYPE	1	3			"291" (constant)
FILE DATE	4	6			YYMMDD of file generation
RECORD TYPE	10	1			Always 'A'
STATION	11	6			Six-character unique name of observation point
OBSERVED DATE	17	6			YYMMDD (UTC)
OBSERVED TIME	23	4			HHMM (UTC)
LATITUDE	27	7			DDMMSS plus hemisphere 'N' or 'S'
LONGITUDE	34	8			DDMMSS plus hemisphere 'E' or 'W'
BOTTOM DEPTH	42	5			XXXXX - Meters to tenths
MAGNETIC VARIATION	47	4			XXXX - Whole degrees from true North (signed value)
BUOY HEADING	51	3			XXX - Whole degrees from true North
SAMPLING RATE (WAVES)	54	4			XXXX - Original measurements per minute to tenths
SAMPLING DURATION (WAVES)	58	4			XXXX - Minutes to hundredths
TOTAL INTERVALS (WAVES)	62	3			XXX - Number of frequency intervals
CHIEF SCIENTIST	65	20			20-Character field for scientist name
INSTITUTION	85	20			20-Character field for data source
WIND SAMPLING DURATION	105	3			XXX - Minutes to tenths
PRESENCE OF RECORD 'B'	108	1			X - Y=YES; N=NO
PRESENCE OF RECORD 'C'	109	1			X - Y=YES; N=NO
PRESENCE OF RECORD 'D'	110	1			X - Y=YES; N=NO
PRESENCE OF RECORD 'E'	111	1			X - Y=YES; N=NO
PRESENCE OF RECORD 'F'	112	1			X - Y=YES; N=NO
PRESENCE OF RECORD 'G'	113	1			X - Y=YES; N=NO
PRESENCE OF RECORD 'H'	114	1			X - Y=YES; N=NO
PRESENCE OF RECORD 'I'	115	1			X - Y=YES; N=NO
PRESENCE OF RECORD 'J'	16	1			X - Y=YES; N=NO
BLANKS	117	4			

RECORD FORMAT DESCRIPTION

RECORD NAME Meteorology Oceanography & Wave Spectra (File Type "291")

14. FIELD NAME	15. POSITION FROM -1 MEASURED IN <small>(e.g., Mts. bytes)</small>	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
ENVIRONMENTAL DATA RECORD (RECORD B)					
FILE TYPE	1	3			"291" (constant)
FILE DATE	4	6			YYMMDD of file generation
RECORD TYPE	10	1			Always 'B'
STATION	11	6			Six characters unique name of observation point
OBSERVED DATE	17	6			YYMMDD (UTC)
OBSERVED TIME	23	4			HHMM (UTC)
ANEMOMETER HEIGHT	27	3			XXX - Height above water level or ground (meters to Tenths)
AIR TEMPERATURE	30	4			XXXX - Negative temperatures are preceded by a minus sign adjacent to temperature value Deg C to tenths
DEW POINT	34	4			XXXX - Degrees C to tenths
BAROMETER	38	5			XXXXX - Reduced to sea level (MB to tenths)
WIND SPEED (AVG)	43	4			XXXX - m/sec to hundredths
WIND DIRECTION (AVG)	47	4			XXXX - Degrees from true North to tenths
WEATHER	51	1			One-character weather code
VISIBILITY	52	3			XXX - Nautical miles to tenths
PRECIPITATION	55	4			XXXX - Accumulation in millimeters
SOLAR RADIATION (ATMOSPHERIC)	59	3			XXX - Langleys/min to hundredths, wave length less than 3.6 microns
SOLAR RADIATION (ATMOSPHERIC)	62	3			XXX - Langleys/min to hundredths, wave length from 4.0 to 50 microns
SIGNIFICANT WAVE HEIGHT*	65	3			XXX - Corrected for low frequency noise, etc. (meters to tenths)
AVERAGE WAVE PERIOD*	68	3			XXX - Seconds to tenths
MEAN WAVE DIRECTION	71	3			XXX - Mean direction of dominant waves in whole degrees from true North
WATER LEVEL	74	4			XXXX - From MLLW reference level, minus sign indicates below MLLW (meters to tenths)
BLANKS	78	2			
TEMPERATURE (SEA SURFACE)	80	4			XXXX - Sea surface negative temperatures are preceded by a minus sign adjacent to temperature value - Deg C to hundredths
PRACTICAL SALINITY (SEA SURFACE)	84	5			XXXXX - To thousandths

RECORD FORMAT DESCRIPTION

RECORD NAME Meteorology Oceanography & Wave Spectra (File Type "291")

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		
ENVIRONMENTAL DATA RECORD (RECORD B) (Continued)					
CONDUCTIVITY (SEA SURFACE)	89	5			XXXXX - Millisiemens/cm to thousandths
DOMINANT WAVE PERIOD*	94	3			XXX - Seconds to tenths
MAXIMUM WAVE HEIGHT	97	3			XXX - Meters to tenths
MAXIMUM WAVE STEEPNESS	100	3			XXX
WIND GUST	103	4			XXXX - Meters/sec to hundredths
WIND GUST AVERAGING PERIOD	107	2			XX - Seconds
WIND GUST	109	4			XXXX - Meters/sec to hundredths
WIND GUST AVERAGING PERIOD	113	2			XX - Seconds
WIND SPEED (58 MIN AVG)	115	3			XXX - Meters/sec to tenths
WIND DIRECTION (58 MIN AVG)	118	3			XXX - 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.					
NONDIRECTIONAL WAVE SPECTRA DATA RECORD (RECORD C)					
FILE TYPE	1	3			"291" (constant)
FILE DATE	4	6			YYMMDD of file generation
RECORD TYPE	10	1			Always 'C'
STATION	11	6			Six characters unique name of observation point
OBSERVED DATE	17	6			YYMMDD (UTC)
OBSERVED TIME	23	4			HHMM (UTC)
BLANKS COUNT	27	7			
COUNT	34	1			X - Number of frequencies on this record
DATA					Up to 5 frequency, resolution, and density fields. Null fields are zero or blank
FREQUENCY	35	4			XXXX - Center frequency of interval in Hertz to thousandths
RESOLUTION	39	4			XXXX - Interval width in Hertz to ten-thousandths
DENSITY	43	6			XXXXXX - Spectral Density of interval in m ² /Hz to thousandths
FREQUENCY	49	4			XXXX - See above
RESOLUTION	53	4			XXXX - See above

RECORD FORMAT DESCRIPTION

RECORD NAME **Meteorology Oceanography & Wave Spectra (File Type "291")**

14. FIELD NAME	15. POSITION FROM -1 MEASURED IN <small>(e.g. 800. bytes)</small>	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
NONDIRECTIONAL WAVE SPECTRA DATA RECORD (RECORD C)					(Continued)
DENSITY	57	6			XXXXXX - See above
FREQUENCY	63	4			XXXX - See above
RESOLUTION	67	4			XXXX - See above
DENSITY	71	6			XXXXXX - See above
FREQUENCY	77	4			XXXX - See above
RESOLUTION	81	4			XXXX - See above
DENSITY	85	6			XXXXXX - See above
FREQUENCY	91	4			XXXX - See above
RESOLUTION	95	4			XXXX - See above
DENSITY	99	6			XXXXXX - See above
BLANKS	105	16			
SUBSURFACE TEMPERATURE/SALINITY DATA RECORD (RECORD D)					
FILE TYPE	1	3			"291" (constant)
FILE DATE	4	6			YYMMDD of file generation
RECORD TYPE	10	1			Always 'D'
STATION	11	6			Six characters unique name of observation point
OBSERVED DATE	17	6			YYMMDD (UTC)
OBSERVED TIME	23	4			HHMM (UTC)
DEPTH	27	5			XXXXX - Meters from the surface to tenths
TEMPERATURE	32	4			XXXX - Negative temperatures are preceded by a minus sign adjacent to temperature value
PRACTICAL SALINITY	36	5			Deg C to hundredths
CONDUCTIVITY	41	4			XXXXX - Parts per thousands reported to thousands
DEPTH	45,63,81,99	5			XXXX - Millisiemens/cm to hundredths
TEMPERATURE	50,68,86,104	4			Repeated in descending order
PRACTICAL SALINITY	54,72,90,108	5			Repeated in descending order
CONDUCTIVITY	59,77,95,113	4			Repeated in descending order
BLANK	117	1			
DURATION OF SAMPLING PERIOD	118	3			XXX - Minutes to tenths
SUBSURFACE CURRENT DATA RECORD (RECORD E)					
FILE TYPE	1	3			Always "291"
FILE DATE	4	6			YYMMDD of file generation
RECORD TYPE	10	1			Always 'E'

RECORD FORMAT DESCRIPTION

RECORD NAME Meteorology Oceanography & Wave Spectra (File Type "291")

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 CURRENT DATA RECORD (RECORD E) (Continued)					
STATION	11	6			Six characters unique name of observation point
OBSERVED DATE	17	6			YYMMDD (UTC)
OBSERVED TIME	23	4			HHMM (UTC)
DEPTH	27	4			XXXX - From the surface in meters
PRESSURE	31	5			XXXXX - Hydrostatic pressure (kg/cm ²) to hundredths
U COMPONENT	36	5			XXXXX - East component from true North (cm/sec) to tenths. Minus sign indicates westward component
V COMPONENT	41	5			XXXXX - True North component in cm/sec to tenths, minus sign indicates southward component
W COMPONENT	46	3			XXX - Vertical component in cm/sec to tenths. Minus sign indicates downward component
DEPTH	49,71, 93	4			Repeated in descending order
PRESSURE	53,75, 97	5			Repeated in descending order
U COMPONENT	58,80, 102	5			Repeated in descending order
V COMPONENT	63,85, 107	5			Repeated in descending order
W COMPONENT	68,90, 112	3			Repeated in descending order
BIN WIDTH	115	2			XX - Width of each depth bin whole meters
SAMPLING INTERVAL	117	3			XXX - Minutes to tenths
BLANK	120	1			
SUBSURFACE DATA PROFILE (RECORD F)					
FILE TYPE	1	3			Always "291"
FILE DATE	4	6			YYMMDD of file generation
RECORD TYPE	10	1			Always 'F'
STATION	11	6			Six characters unique name of observation point
OBSERVED DATE	17	6			YYMMDD (UTC)
OBSERVED TIME	23	4			HHMM (UTC)
DEPTH	27	4			XXXX - From the surface in meters. Negative value indicates height in meters <u>above</u> water surface

RECORD FORMAT DESCRIPTION

RECORD NAME Meteorology Oceanography & Wave Spectra (File Type "291")

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 PROFILE (RECORD F) (Continued)					
PHOTOSYNTHETIC ACTIVE RADIATION (PAR)	31	4			XXXX - Micromol/sec/m ²
BLANKS	35	15			15 Blanks reserved for future parameters
DEPTH	50,73, 96	4			Repeated in descending order.
PAR	54,77, 100	4			Repeated in descending order
BLANKS	58,81, 104	15			Repeated in descending order
BLANKS	119	2			
CO AND QUAD SPECTRA FOR DIRECTIONAL WAVES DATA RECORD (RECORD G)					
FILE TYPE	1	3			Always "291"
FILE DATE	4	6			YYMMDD of file generation
RECORD TYPE	10	1			Always 'G'
STATION	11	6			Six characters unique name of observation point
OBSERVED DATE	17	6			YYMMDD (UTC)
OBSERVED TIME	23	4			HHMM (UTC)
FREQUENCY	27	4			XXXX - Center frequency of interval in Hz to thousandths
RESOLUTION	31	5			XXXXXX - Spectral resolution of this frequency band to Hz to ten-thousandths
CO-SPECTRA (C11)	36	6			XXXXXXXX - Uncorrected values of CO and QUAD spectra in m ² /Hz. Decimal assumed to be left of first digit. Subscripts are: 1=Heave, 2=E-W slope, 3=N-S slope
EXPONENT*	42	2			XX - First space is the sign
CO-SPECTRA (C22)	44	6			XXXXXXXX - See above
EXPONENT*	50	2			XX
CO-SPECTRA (C33)	52	6			XXXXXXXX - See above
EXPONENT*	58	2			XX
CO-SPECTRA (C12)	60	6			XXXXXXXX - See above
EXPONENT*	66	2			XX
QUAD-SPECTRA (Q12)	68	6			XXXXXXXX - See above
EXPONENT*	74	2			XX
CO-SPECTRA (C13)	76	6			XXXXXXXX - See above
EXPONENT*	82	2			XX
QUAD-SPECTRA (Q13)	84	6			XXXXXXXX - See above
EXPONENT*	90	2			XX
CO-SPECTRA (C23)	92	6			XXXXXXXX - See above
EXPONENT*	98	2			XX

RECORD FORMAT DESCRIPTION

RECORD NAME Meteorology Oceanography & Wave Spectra (File Type "291")

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 DATA RECORD (RECORD G) (Continued)					
QUAD-SPECTRA (Q23)	100	6			XXXXXX - See above
EXPONENT*	106	2			XX
SPECTRA (C22-C33)	108	6			XXXXXX - See above
EXPONENT*	114	2			XX
BLANKS	116	5			
* If this exponent is less than -9 the exponent and its associated spectra will be zero.					
DIRECTIONAL WAVE FOURIER COEFFICIENT DATA RECORD (RECORD H)					
FILE TYPE	1	3			Always "291"
FILE DATE	4	6			YYMMDD of file generation
RECORD TYPE	10	1			Always 'H'
STATION	11	6			Six characters unique name of observation point
OBSERVED DATE	17	6			YYMMDD (UTC)
OBSERVED TIME	23	4			HHMM (UTC)
FREQUENCY	27	4			XXXX - Hz to thousandths
RESOLUTION	31	5			XXXXX - Hz to ten-thousandths
ANGULAR FOURIER COEFF (a ₀)	36	6			XXXXXX - m ² /Hz
EXPONENT	42	2			XX
ANGULAR FOURIER COEFF (a ₁)	44	6			XXXXXX - m ² /Hz
EXPONENT	50	2			XX
ANGULAR FOURIER COEFF (b ₁)	52	6			XXXXXX - m ² /Hz
EXPONENT	58	2			XX
ANGULAR FOURIER COEFF (a ₂)	60	6			XXXXXX - m ² /Hz
EXPONENT	66	2			XX
ANGULAR FOURIER COEFF (b ₂)	68	6			XXXXXX - m ² /Hz
EXPONENT	74	2			XX
ANGULAR FOURIER COEFF (a ₃)	76	6			XXXXXX - m ² /Hz
EXPONENT	82	2			XX
ANGULAR FOURIER COEFF (b ₃)	84	6			XXXXXX - m ² /Hz
EXPONENT	90	2			XX
ANGULAR FOURIER COEFF (a ₄)	92	6			XXXXXX - m ² /Hz
EXPONENT	98	2			XX
ANGULAR FOURIER COEFF (b ₄)	100	6			XXXXXX - m ² /Hz
EXPONENT	106	2			XX

RECORD FORMAT DESCRIPTION

RECORD NAME Meteorology Oceanography & Wave Spectra (File Type "291")

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		
DIRECTIONAL WAVE FOURIER COEFFICIENT DATA RECORD (RECORD H) (Continued)					
MEAN WAVE DIRECTION	108	3			XXX - ARCTAN b_1/a_1 in whole degrees from true North
BLANKS	111	10			
DIRECTIONAL WAVE PARAMETER DATA RECORD (RECORD I)					
FILE TYPE	1	3			Always "291"
FILE DATE	4	6			YYMMDD of file generation
RECORD TYPE	10	1			Always 'I'
STATION	11	6			Six characters unique name of observation point
OBSERVED DATE	17	6			YYMMDD (UTC)
OBSERVED TIME	23	4			HHMM (UTC)
COUNT	27	1			X - Number of frequencies on this record (1 to 3)
FREQUENCY	28	4			XXXX - Center of frequency interval in Hz to the ten-thousandth
RESOLUTION	32	4			XXXX - Resolution of interval in Hz to the ten-thousandth
R1	36	4			XXXX - Nondimensional. Given to nearest hundredth.
R2	40	4			XXXX - Nondimensional. Given to nearest hundredth.
WAVE DIRECTION - ALPHA1	44	4			XXXX - Direction in degrees to the tenth.
WAVE DIRECTION - ALPHA2	48	4			XXXX - Direction in degrees to the tenth.
WAVE ESTIMATE C11	52	6			XXXXXX - Spectral value in m^2/Hz to the thousandth
FREQUENCY	58	4			XXXX - Center of frequency interval in Hz to the ten-thousandth
RESOLUTION	62	4			XXXX - Resolution of interval in Hz to the ten-thousandth
R1	66	4			XXXX - Nondimensional. Given to nearest hundredth.
R2	70	4			XXXX - Nondimensional. Given to nearest hundredth.
WAVE DIRECTION - ALPHA1	74	4			XXXX - Direction in degrees to the tenth.
WAVE DIRECTION - ALPHA2	78	4			XXXX - Direction in degrees to the tenth.
WAVE C11 ESTIMATE	82	6			XXXXXX - Spectral value in m^2/Hz to the thousandth
FREQUENCY	88	4			XXXX - Center of frequency interval in Hz to the ten-thousandth

RECORD FORMAT DESCRIPTION

RECORD NAME Meteorology Oceanography & Wave Spectra (File Type "291")

14. FIELD NAME	15. POSITION FROM -1 MEASURED IN <small>(e.g. 8th. byte)</small>	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
DIRECTIONAL WAVE PARAMETER DATA RECORDS (RECORD I) (Continued)					
RESOLUTION	92	4			XXXX - Resolution of interval in Hz to the ten-thousandth
R1	96	4			XXXX - Nondimensional. Given to nearest hundredth.
R2	100	4			XXXX - Nondimensional. Given to nearest hundredth.
WAVE DIRECTION - ALPHA1	104	4			XXXX - Direction in degrees to the tenth.
WAVE DIRECTION - ALPHA2	108	4			XXXX - Direction in degrees to the tenth.
WAVE C11 ESTIMATE	112	6			XXXXXX - Spectral value in m ² /Hz to the thousandth
BLANKS	118	3			
<p>NOTE: DIRECTIONAL WAVE SPECTRUM = C11(f)*D(f,A), f=frequency (Hz), A=Azimuth angle measured clockwise from North to the direction wave is from. $D(f,A)=(1/PI)*(0.5+R1*COS(A-ALPHA1)+R2*COS(2*(A-ALPHA2)))$, in which R1 and R2 are dimensionless and ALPHA1 and ALPHA2 are respectively mean and principal wave directions. In terms of Longuet-Higgins Fourier Coefficients $R1=(SQRT(a_1*a_1+b_1*b_1))/a_0$, $R2=(SQRT(a_2*a_2+b_2*b_2))/a_0$, $ALPHA1=ARCTAN(b_1,a_1)$, $ALPHA2=0.5*ARCTAN(b_2,a_2)+0.$ or 180., C11(f) is the nondirectional wave spectra data from RECORD C.</p>					
CONTINUOUS WIND MEASUREMENT DATA RECORD (RECORD J)					
FILE TYPE	1	3			Always "291"
FILE DATE	4	6			YYMMDD of file generation
RECORD TYPE	10	1			Always 'J'
STATION	11	6			Six characters unique name of observation point
REPORT DATE	17	6			YYMMDD (UTC)
REPORT TIME	23	4			HHMM (UTC)
SPEED AVERAGING METHOD	27	1			X - 1=VECTOR, 2=SCALER
STANDARD DEVIATION OF HOURLY SPEED	28	3			XXX - m/sec to tenths
STANDARD DEVIATION OF HOURLY DIRECTION	31	4			XXXX - Whole degrees
HOURLY PEAK WIND	35	3			XXX - m/sec to tenths (highest 5 sec wind)
DIRECTION OF HOURLY PEAK	38	3			XXX - Whole degrees
MINUTE OF HOURLY PEAK	41	2			XX - Minutes
END OF ACQUISITION TIME	43	4			XXXX - HHMM (UTC)
FIRST AVERAGE DIRECTION	47	3			XXX - Whole degrees

RECORD FORMAT DESCRIPTION

RECORD NAME Meteorology Oceanography & Wave Spectra (File Type "291")

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 (RECORD J) (Continued)					
FIRST AVERAGE SPEED	50	3			XXX - m/sec to tenths
SECOND AVERAGE DIRECTION	53	3			XXX - Whole degrees
SECOND AVERAGE SPEED	56	3			XXX - m/sec to tenths
THIRD AVERAGE DIRECTION	59	3			XXX - Whole degrees
THIRD AVERAGE SPEED	62	3			XXX - m/sec to tenths
FOURTH AVERAGE DIRECTION	65	3			XXX - Whole degrees
FOURTH AVERAGE SPEED	68	3			XXX - m/sec to tenths
FIFTH AVERAGE DIRECTION	71	3			XXX - Whole degrees
FIFTH AVERAGE SPEED	74	3			XXX - m/sec to tenths
SIXTH AVERAGE DIRECTION	77	3			XXX - Whole degrees
SIXTH AVERAGE SPEED	80	3			XXX - m/sec to tenths
BLANKS	83	38			
<p>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 time period ending immediately before the end of acquisition time. The remaining sets go back in time. For example, if the end of acquisition time is 1025, then the first average is 1010 to 1019, the second, 1000 to 1009, etc. If the end of acquisition time is 1030, then the first period will be 1020 to 1029.</p>					

Password:

accNo	fleA	refNo	proj	inst	ship	startDate	cruise	catId
9200020	F291	BS1215	9999	313B	317F	1991/12/01	PTAC1	203514
9200020	F291	BS1216	9999	313B	317F	1991/12/01	PTAT2	203515
9200020	F291	BS1217	9999	313B	317F	1991/12/01	PTGC1	203516
9200020	F291	BS1218	9999	313B	317F	1991/12/01	ROAM4	203517
9200020	F291	BS1219	9999	313B	317F	1991/12/01	SANF1	203518
9200020	F291	BS1220	9999	313B	317F	1991/12/01	SAUF1	203519
9200020	F291	BS1221	9999	313B	317F	1991/12/01	SBIO1	203520
9200020	F291	BS1222	9999	313B	317F	1991/12/01	SGNW3	203521
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9200020	F291	BS1213	9999	313B	317F	1991/12/01	NWPO3	203512
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(102 rows affected)

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