

ACCESS NUMBER	REF NUMBER	FILE TYPE	PROJ CODE	INST	PLAT	CRUISE NO	CRUISE START	CRUISE END	NUM STA	NUM REC
9200005	BS1031	F291		313B	317F	32302	11/01/91	11/30/91	1	7,002
9200005	BS1032	F291		313B	317F	41001	11/01/91	11/30/91	1	7,552
9200005	BS1033	F291		313B	317F	41002	11/01/91	11/30/91	1	2,880
9200005	BS1034	F291		313B	317F	41008	11/01/91	11/30/91	1	43,440
9200005	BS1035	F291		313B	317F	41009	11/01/91	11/30/91	1	14,356
9200005	BS1036	F291		313B	317F	41010	11/01/91	11/30/91	1	14,328
9200005	BS1037	F291		313B	317F	42001	11/01/91	11/30/91	1	7,864
9200005	BS1038	F291		313B	317F	42002	11/01/91	11/30/91	1	7,842
9200005	BS1039	F291		313B	317F	42003	11/01/91	11/30/91	1	7,852
9200005	BS1040	F291		313B	317F	42007	11/01/91	11/22/91	1	1,356
9200005	BS1041	F291		313B	317F	42019	11/01/91	11/30/91	1	7,154
9200005	BS1042	F291		313B	317F	42025	11/01/91	11/30/91	1	7,164
9200005	BS1043	F291		313B	317F	44004	11/16/91	11/30/91	1	3,715
9200005	BS1044	F291		313B	317F	44007	11/01/91	11/30/91	1	7,184
9200005	BS1045	F291		313B	317F	44008	11/01/91	11/30/91	1	7,819
9200005	BS1046	F291		313B	317F	44009	11/01/91	11/30/91	1	7,162
9200005	BS1047	F291		313B	317F	44011	11/01/91	11/30/91	1	7,899
9200005	BS1048	F291		313B	317F	44012	11/01/91	11/30/91	1	7,164
9200005	BS1049	F291		313B	317F	44013	11/01/91	11/30/91	1	7,182
9200005	BS1050	F291		313B	317F	44014	11/01/91	11/30/91	1	43,678
9200005	BS1051	F291		313B	317F	44025	11/01/91	11/30/91	1	39,910
9200005	BS1052	F291		313B	317F	45002	11/01/91	11/30/91	1	8,640
9200005	BS1053	F291		313B	317F	45003	11/01/91	11/10/91	1	2,334
9200005	BS1054	F291		313B	317F	45004	11/01/91	11/30/91	1	8,356
9200005	BS1055	F291		313B	317F	45008	11/01/91	11/09/91	1	2,546
9200005	BS1056	F291		313B	317F	46001	11/01/91	11/30/91	1	7,901
9200005	BS1057	F291		313B	317F	46002	11/01/91	11/13/91	1	3,329
9200005	BS1058	F291		313B	317F	46003	11/01/91	11/30/91	1	7,875
9200005	BS1059	F291		313B	317F	46005	11/01/91	11/30/91	1	7,872
9200005	BS1060	F291		313B	317F	46012	11/01/91	11/30/91	1	7,172
9200005	BS1061	F291		313B	317F	46013	11/01/91	11/30/91	1	8,604
9200005	BS1062	F291		313B	317F	46022	11/01/91	11/30/91	1	7,150
9200005	BS1063	F291		313B	317F	46023	11/01/91	11/30/91	1	7,152
9200005	BS1064	F291		313B	317F	46025	11/01/91	11/30/91	1	43,495
9200005	BS1065	F291		313B	317F	46026	11/01/91	11/30/91	1	7,164
9200005	BS1066	F291		313B	317F	46028	11/01/91	11/27/91	1	7,680
9200005	BS1067	F291		313B	317F	46029	11/01/91	11/30/91	1	8,546
9200005	BS1068	F291		313B	317F	46035	11/01/91	11/30/91	1	7,976
9200005	BS1069	F291		313B	317F	46A35	11/01/91	11/30/91	1	2,071
9200005	BS1070	F291		313B	317F	46040	11/01/91	11/30/91	1	7,159
9200005	BS1071	F291		313B	317F	46041	11/01/91	11/30/91	1	6,794
9200005	BS1072	F291		313B	317F	46042	11/01/91	11/30/91	1	43,206
9200005	BS1073	F291		313B	317F	46045	11/01/91	11/30/91	1	43,255
9200005	BS1074	F291		313B	317F	46050	11/16/91	11/30/91	1	18,506
9200005	BS1075	F291		313B	317F	51002	11/01/91	11/30/91	1	8,620
9200005	BS1076	F291		313B	317F	51003	11/01/91	11/30/91	1	8,608
9200005	BS1077	F291		313B	317F	51004	11/01/91	11/30/91	1	2,848
9200005	BS1078	F291		313B	317F	91222	11/01/91	11/30/91	1	1,246
9200005	BS1079	F291		313B	317F	91251	11/01/91	11/30/91	1	1,062
9200005	BS1080	F291		313B	317F	91343	11/01/91	11/30/91	1	1,428

9200005	BS1081	F291	313B	317F	91353	11/01/91	11/30/91	1	1,432
9200005	BS1082	F291	313B	317F	91365	11/01/91	11/30/91	1	1,440
9200005	BS1083	F291	313B	317F	91377	11/01/91	11/30/91	1	1,438
9200005	BS1084	F291	313B	317F	ALSN6	11/01/91	11/30/91	1	5,398
9200005	BS1085	F291	313B	317F	BURL1	11/01/91	11/30/91	1	2,118
9200005	BS1086	F291	313B	317F	BUSL1	11/01/91	11/18/91	1	586
9200005	BS1087	F291	313B	317F	BUZM3	11/01/91	11/30/91	1	1,438
9200005	BS1088	F291	313B	317F	CARO3	11/01/91	11/30/91	1	1,434
9200005	BS1089	F291	313B	317F	CHLV2	11/01/91	11/30/91	1	7,695
9200005	BS1090	F291	313B	317F	CLKN7	11/01/91	11/30/91	1	2,148
9200005	BS1091	F291	313B	317F	CSBF1	11/01/91	11/30/91	1	2,148
9200005	BS1092	F291	313B	317F	DBLN6	11/01/91	11/30/91	1	1,440
9200005	BS1093	F291	313B	317F	DESW1	11/01/91	11/30/91	1	1,434
9200005	BS1094	F291	313B	317F	DISW3	11/01/91	11/30/91	1	1,436
9200005	BS1095	F291	313B	317F	DPIA1	11/01/91	11/30/91	1	1,436
9200005	BS1096	F291	313B	317F	DSLNL7	11/01/91	11/30/91	1	7,465
9200005	BS1097	F291	313B	317F	FBIS1	11/01/91	11/30/91	1	2,159
9200005	BS1098	F291	313B	317F	FFIA2	11/01/91	11/30/91	1	1,434
9200005	BS1099	F291	313B	317F	FPSN7	11/01/91	11/30/91	1	2,157
9200005	BS1100	F291	313B	317F	FWYF1	11/01/91	11/30/91	1	2,147
9200005	BS1101	F291	313B	317F	GBCL1	11/01/91	11/30/91	1	7,281
9200005	BS1102	F291	313B	317F	GDIL1	11/01/91	11/30/91	1	2,142
9200005	BS1103	F291	313B	317F	GLLN6	11/01/91	11/30/91	1	1,440
9200005	BS1104	F291	313B	317F	IOSN3	11/01/91	11/30/91	1	1,438
9200005	BS1105	F291	313B	317F	KOSP2	11/01/91	11/30/91	1	1,424
9200005	BS1106	F291	313B	317F	LNEL1	11/01/91	11/30/91	1	1,362
9200005	BS1107	F291	313B	317F	MDRM1	11/01/91	11/30/91	1	1,436
9200005	BS1108	F291	313B	317F	MISM1	11/01/91	11/30/91	1	1,266
9200005	BS1109	F291	313B	317F	MLRF1	11/01/91	11/30/91	1	2,149
9200005	BS1110	F291	313B	317F	MPCL1	11/01/91	11/30/91	1	6,394
9200005	BS1111	F291	313B	317F	NWPO3	11/01/91	11/30/91	1	1,432
9200005	BS1112	F291	313B	317F	PILM4	11/01/91	11/30/91	1	1,438
9200005	BS1113	F291	313B	317F	PTAC1	11/01/91	11/30/91	1	1,438
9200005	BS1114	F291	313B	317F	PTAT2	11/01/91	11/30/91	1	2,151
9200005	BS1115	F291	313B	317F	PTGC1	11/01/91	11/30/91	1	1,436
9200005	BS1116	F291	313B	317F	ROAM4	11/01/91	11/30/91	1	1,436
9200005	BS1117	F291	313B	317F	SANF1	11/01/91	11/30/91	1	2,122
9200005	BS1118	F291	313B	317F	SAUF1	11/01/91	11/30/91	1	2,152
9200005	BS1119	F291	313B	317F	SBIO1	11/01/91	11/30/91	1	1,440
9200005	BS1120	F291	313B	317F	SGNW3	11/01/91	11/30/91	1	1,438
9200005	BS1121	F291	313B	317F	SISW1	11/01/91	11/30/91	1	1,436
9200005	BS1122	F291	313B	317F	SMKF1	11/01/91	11/30/91	1	2,142
9200005	BS1123	F291	313B	317F	SPGF1	11/01/91	11/30/91	1	2,150
9200005	BS1124	F291	313B	317F	SRST2	11/01/91	11/30/91	1	2,152
9200005	BS1125	F291	313B	317F	STDM4	11/01/91	11/30/91	1	1,434
9200005	BS1126	F291	313B	317F	SVLS1	11/01/91	11/30/91	1	7,073
9200005	BS1127	F291	313B	317F	TPLM2	11/01/91	11/30/91	1	2,151
9200005	BS1128	F291	313B	317F	TTIW1	11/01/91	11/30/91	1	1,432
9200005	BS1129	F291	313B	317F	VENF1	11/01/91	11/30/91	1	2,144
9200005	BS1130	F291	313B	317F	WPOW1	11/01/91	11/30/91	1	1,454

1130
1031



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

December 18, 1991

F1804-02
DB3:91-0729
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:

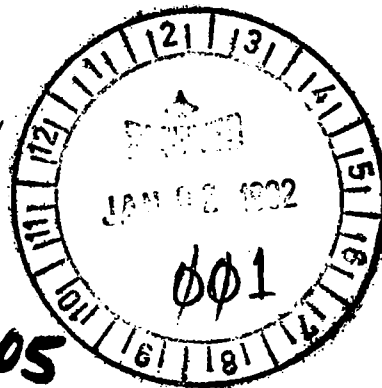
Enclosed is the November 1991, Nine Track, 6250 BPI, archive tape, recorded in the archive File Type 291 tape format. The enclosure contains a list of stations and the inclusive dates that are on the tape.

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

Sincerely,

S. P. Nolan
ADP Manager

Enclosure



9200005

A01509

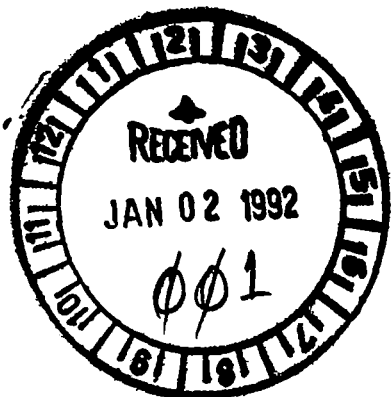


NOVEMBER 1991

32302 11/01/91/00 11/30/91/23
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41002 11/01/91/00 11/30/91/23
41008 11/01/91/00 11/30/91/23
41009 11/01/91/00 11/30/91/23
41010 11/01/91/00 11/30/91/23
42001 11/01/91/00 11/30/91/23
42002 11/01/91/00 11/30/91/23
42003 11/01/91/00 11/30/91/23
42007 11/01/91/00 11/22/91/01
42019 11/01/91/00 11/30/91/23
42025 11/01/91/00 11/30/91/23
44004 11/16/91/18 11/30/91/23
44007 11/01/91/00 11/30/91/23
44008 11/01/91/00 11/30/91/23
44009 11/01/91/00 11/30/91/23
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45008 11/01/91/00 11/09/91/21
46001 11/01/91/00 11/30/91/23
46002 11/01/91/00 11/13/91/16
46003 11/01/91/00 11/30/91/23
46005 11/01/91/00 11/30/91/23
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51004 11/01/91/00 11/30/91/23
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CARO3 11/01/91/00 11/30/91/23
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DBLN6 11/01/91/00 11/30/91/23

9200005

A01509



DESW1 11/01/91/00 11/30/91/23
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DPIA1 11/01/91/00 11/30/91/23
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FBIS1 11/01/91/00 11/30/91/23
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FPSN7 11/01/91/00 11/30/91/23
FWYF1 11/01/91/00 11/30/91/23
GBCL1 11/01/91/00 11/30/91/23
GDIL1 11/01/91/00 11/30/91/23
GLLN6 11/01/91/00 11/30/91/23
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KOSP2 11/01/91/00 11/30/91/23
LNEL1 11/01/91/00 11/30/91/23
MDRM1 11/01/91/00 11/30/91/23
MISM1 11/01/91/00 11/30/91/23
MLRF1 11/01/91/00 11/30/91/23
MPCL1 11/01/91/00 11/30/91/23
NWPO3 11/01/91/00 11/30/91/23
PILM4 11/01/91/00 11/30/91/23
PTAC1 11/01/91/00 11/30/91/23
PTAT2 11/01/91/00 11/30/91/23
PTGC1 11/01/91/00 11/30/91/23
ROAM4 11/01/91/00 11/30/91/23
SANF1 11/01/91/00 11/30/91/23
SAUF1 11/01/91/00 11/30/91/23
SBI01 11/01/91/00 11/30/91/23
SGNW3 11/01/91/00 11/30/91/23
SISW1 11/01/91/00 11/30/91/00
SMKF1 11/01/91/00 11/30/91/23
SEGF1 11/01/91/00 11/30/91/23
SRST2 11/01/91/00 11/30/91/23
STDM4 11/01/91/00 11/30/91/23
SVLS1 11/01/91/00 11/30/91/23
TPLM2 11/01/91/00 11/30/91/23
TTIW1 11/01/91/00 11/30/91/23
VENF1 11/01/91/00 11/30/91/23
WPOW1 11/01/91/00 11/30/91/23

100

C. DATA FORMAT

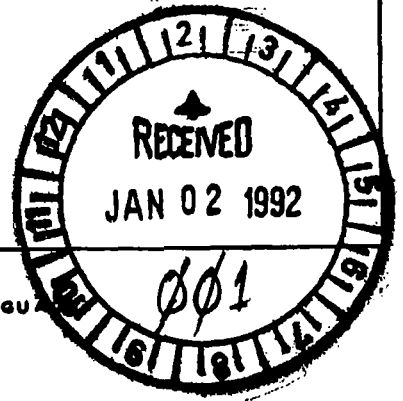
COMPLETE THIS SECTION FOR PUNCHED CARDS OR TAPE, MAGNETIC TAPE, OR DISC SUBMISSIONS.

**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 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 type="checkbox"/> 3/4 INCH</p> <p><input type="checkbox"/> _____</p>
<p>6. NUMBER OF TRACKS (CHANNELS)</p> <p><input type="checkbox"/> SEVEN</p> <p><input checked="" type="checkbox"/> NINE</p> <p><input type="checkbox"/> _____</p>	<p>10. END OF FILE MARK</p> <p><input checked="" type="checkbox"/> OCTAL 17</p> <p><input type="checkbox"/> _____</p>
<p>7. PARITY</p> <p><input checked="" type="checkbox"/> ODD</p> <p><input type="checkbox"/> EVEN</p>	<p>11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME LAY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER)</p>
<p>8. DENSITY</p> <p><input type="checkbox"/> 200 BPI <input type="checkbox"/> 1600 BPI</p> <p><input type="checkbox"/> 556 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., Min, byte)</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., bits, 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., bits, bytes)</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			
	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., bits, 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>(0-6 = 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 (e.g., Min, bytes)	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			XXXXX - Spectral resolution of this frequency band to Hz to ten-thousandths
CO-SPECTRA (C11)	36	6			XXXXXX - 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			XXXXXX - See above
EXPONENT*	50	2			XX
CO-SPECTRA (C33)	52	6			XXXXXX - See above
EXPONENT*	58	2			XX
CO-SPECTRA (C12)	60	6			XXXXXX - See above
EXPONENT*	66	2			XX
QUAD-SPECTRA (Q12)	68	6			XXXXXX - See above
EXPONENT*	74	2			XX
CO-SPECTRA (C13)	76	6			XXXXXX - See above
EXPONENT*	82	2			XX
QUAD-SPECTRA (Q13)	84	6			XXXXXX - See above
EXPONENT*	90	2			XX
CO-SPECTRA (C23)	92	6			XXXXXX - 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., bits, bytes)</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. 44h, 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			

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.

Password:

accNo	fleA	refNo	proj	inst	ship	startDate	cruise	catId
9200005	F291	BS1046	9999	313B	317F	1991/11/01	44009	203001
9200005	F291	BS1047	9999	313B	317F	1991/11/01	44011	203002
9200005	F291	BS1048	9999	313B	317F	1991/11/01	44012	203003
9200005	F291	BS1049	9999	313B	317F	1991/11/01	44013	203004
9200005	F291	BS1050	9999	313B	317F	1991/11/01	44014	203005
9200005	F291	BS1051	9999	313B	317F	1991/11/01	44025	203006
9200005	F291	BS1052	9999	313B	317F	1991/11/01	45002	203007
9200005	F291	BS1053	9999	313B	317F	1991/11/01	45003	203008
9200005	F291	BS1054	9999	313B	317F	1991/11/01	45004	203009
9200005	F291	BS1055	9999	313B	317F	1991/11/01	45008	203010
9200005	F291	BS1056	9999	313B	317F	1991/11/01	46001	203011
9200005	F291	BS1057	9999	313B	317F	1991/11/01	46002	203012
9200005	F291	BS1058	9999	313B	317F	1991/11/01	46003	203013
9200005	F291	BS1059	9999	313B	317F	1991/11/01	46005	203014
9200005	F291	BS1060	9999	313B	317F	1991/11/01	46012	203015
9200005	F291	BS1061	9999	313B	317F	1991/11/01	46013	203016
9200005	F291	BS1062	9999	313B	317F	1991/11/01	46022	203017
9200005	F291	BS1063	9999	313B	317F	1991/11/01	46023	203018
9200005	F291	BS1064	9999	313B	317F	1991/11/01	46025	203019
9200005	F291	BS1065	9999	313B	317F	1991/11/01	46026	203020
9200005	F291	BS1066	9999	313B	317F	1991/11/01	46028	203021
9200005	F291	BS1067	9999	313B	317F	1991/11/01	46029	203022
9200005	F291	BS1068	9999	313B	317F	1991/11/01	46035	203023
9200005	F291	BS1069	9999	313B	317F	1991/11/01	46A35	203024
9200005	F291	BS1070	9999	313B	317F	1991/11/01	46040	203025
9200005	F291	BS1071	9999	313B	317F	1991/11/01	46041	203026
9200005	F291	BS1072	9999	313B	317F	1991/11/01	46042	203027
9200005	F291	BS1073	9999	313B	317F	1991/11/01	46045	203028
9200005	F291	BS1074	9999	313B	317F	1991/11/16	46050	203029
9200005	F291	BS1075	9999	313B	317F	1991/11/01	51002	203030
9200005	F291	BS1076	9999	313B	317F	1991/11/01	51003	203031
9200005	F291	BS1077	9999	313B	317F	1991/11/01	51004	203032
9200005	F291	BS1078	9999	313B	317F	1991/11/01	91222	203033
9200005	F291	BS1079	9999	313B	317F	1991/11/01	91251	203034
9200005	F291	BS1080	9999	313B	317F	1991/11/01	91343	203035
9200005	F291	BS1081	9999	313B	317F	1991/11/01	91353	203036
9200005	F291	BS1082	9999	313B	317F	1991/11/01	91365	203037
9200005	F291	BS1083	9999	313B	317F	1991/11/01	91377	203038
9200005	F291	BS1084	9999	313B	317F	1991/11/01	ALSN6	203039
9200005	F291	BS1085	9999	313B	317F	1991/11/01	BURL1	203040
9200005	F291	BS1086	9999	313B	317F	1991/11/01	BUSL1	203041
9200005	F291	BS1087	9999	313B	317F	1991/11/01	BUZM3	203042
9200005	F291	BS1088	9999	313B	317F	1991/11/01	CAR03	203043
9200005	F291	BS1089	9999	313B	317F	1991/11/01	CHLV2	203044
9200005	F291	BS1090	9999	313B	317F	1991/11/01	CLKN7	203045
9200005	F291	BS1091	9999	313B	317F	1991/11/01	CSBF1	203046
9200005	F291	BS1092	9999	313B	317F	1991/11/01	DBLN6	203047
9200005	F291	BS1093	9999	313B	317F	1991/11/01	DESW1	203048
9200005	F291	BS1094	9999	313B	317F	1991/11/01	DISW3	203049
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