

S NUMBER	REF NUMBER	FILE TYPE	PROJ CODE	INST	PLAT	CRUISE NO	CRUISE START	CRUISE END	NUM STA	NUM REC
9200231	BS1753	F291		313B	317F	32302	06/01/92	06/30/92	1	7,088
9200231	BS1754	F291		313B	317F	41001	06/01/92	06/30/92	1	7,909
9200231	BS1755	F291		313B	317F	41002	06/01/92	06/30/92	1	7,892
9200231	BS1756	F291		313B	317F	41004	06/16/92	06/30/92	1	19,210
9200231	BS1757	F291		313B	317F	41006	06/01/92	06/30/92	1	7,909
9200231	BS1758	F291		313B	317F	41009	06/01/92	06/30/92	1	14,360
9200231	BS1759	F291		313B	317F	41010	06/01/92	06/30/92	1	13,834
9200231	BS1760	F291		313B	317F	41016	06/01/92	06/30/92	1	1,440
9200231	BS1761	F291		313B	317F	42001	06/04/92	06/30/92	1	37,932
9200231	BS1762	F291		313B	317F	42002	06/01/92	06/30/92	1	7,897
9200231	BS1763	F291		313B	317F	42003	06/01/92	06/30/92	1	7,802
9200231	BS1764	F291		313B	317F	42007	06/03/92	06/30/92	1	1,970
9200231	BS1765	F291		313B	317F	42019	06/01/92	06/30/92	1	7,120
9200231	BS1766	F291		313B	317F	42020	06/01/92	06/30/92	1	7,190
9200231	BS1767	F291		313B	317F	42025	06/01/92	06/30/92	1	7,176
9200231	BS1768	F291		313B	317F	44004	06/01/92	06/30/92	1	7,909
9200231	BS1769	F291		313B	317F	44005	06/01/92	06/30/92	1	7,108
9200231	BS1770	F291		313B	317F	44007	06/01/92	06/30/92	1	7,190
9200231	BS1771	F291		313B	317F	44008	06/01/92	06/30/92	1	7,892
9200231	BS1772	F291		313B	317F	44009	06/01/92	06/30/92	1	7,144
9200231	BS1773	F291		313B	317F	44011	06/01/92	06/30/92	1	7,735
9200231	BS1774	F291		313B	317F	44012	06/01/92	06/30/92	1	7,180
9200231	BS1775	F291		313B	317F	44013	06/01/92	06/30/92	1	7,184
9200231	BS1776	F291		313B	317F	44014	06/01/92	06/30/92	1	43,497
9200231	BS1777	F291		313B	317F	44025	06/01/92	06/30/92	1	42,596
9200231	BS1778	F291		313B	317F	45001	06/01/92	06/30/92	1	7,200
9200231	BS1779	F291		313B	317F	45002	06/01/92	06/30/92	1	7,172
9200231	BS1780	F291		313B	317F	45003	06/01/92	06/30/92	1	7,200
9200231	BS1781	F291		313B	317F	45004	06/01/92	06/30/92	1	7,134
9200231	BS1782	F291		313B	317F	45005	06/01/92	06/30/92	1	43,564
9200231	BS1783	F291		313B	317F	45006	06/01/92	06/30/92	1	8,608
9200231	BS1784	F291		313B	317F	45007	06/01/92	06/30/92	1	39,217
9200231	BS1785	F291		313B	317F	45008	06/01/92	06/30/92	1	8,616
9200231	BS1786	F291		313B	317F	46001	06/01/92	06/30/92	1	7,909
9200231	BS1787	F291		313B	317F	46002	06/01/92	06/30/92	1	7,897
9200231	BS1788	F291		313B	317F	46003	06/01/92	06/30/92	1	7,824
9200231	BS1789	F291		313B	317F	46005	06/01/92	06/30/92	1	7,893
9200231	BS1790	F291		313B	317F	46006	06/17/92	06/30/92	1	3,642
9200231	BS1791	F291		313B	317F	46011	06/01/92	06/30/92	1	7,152
9200231	BS1792	F291		313B	317F	46012	06/01/92	06/30/92	1	7,162
9200231	BS1793	F291		313B	317F	46013	06/23/92	06/30/92	1	1,874
9200231	BS1794	F291		313B	317F	46014	06/23/92	06/30/92	1	10,616
9200231	BS1795	F291		313B	317F	46022	06/01/92	06/30/92	1	7,102
9200231	BS1796	F291		313B	317F	46023	06/01/92	06/30/92	1	7,152

9200231	BS1797	F291	313B	317F	46025	06/01/92	06/30/92	1	43,678
9200231	BS1798	F291	313B	317F	46026	06/01/92	06/30/92	1	6,990
9200231	BS1799	F291	313B	317F	46027	06/01/92	06/30/92	1	6,422
9200231	BS1800	F291	313B	317F	46028	06/12/92	06/30/92	1	4,380
9200231	BS1801	F291	313B	317F	46029	06/01/92	06/30/92	1	7,524
9200231	BS1802	F291	313B	317F	46035	06/01/92	06/30/92	1	9,128
9200231	BS1803	F291	313B	317F	46040	06/01/92	06/03/92	1	446
9200231	BS1804	F291	313B	317F	46041	06/01/92	06/30/92	1	7,038
9200231	BS1805	F291	313B	317F	46042	06/01/92	06/30/92	1	43,562
9200231	BS1806	F291	313B	317F	46048	06/01/92	06/30/92	1	39,021
9200231	BS1807	F291	313B	317F	46050	06/01/92	06/30/92	1	41,611
9200231	BS1808	F291	313B	317F	46051	06/01/92	06/30/92	1	43,621
9200231	BS1809	F291	313B	317F	51001	06/01/92	06/30/92	1	8,604
9200231	BS1810	F291	313B	317F	51002	06/01/92	06/30/92	1	8,568
9200231	BS1811	F291	313B	317F	51003	06/01/92	06/30/92	1	8,628
9200231	BS1812	F291	313B	317F	51004	06/01/92	06/30/92	1	8,610
9200231	BS1813	F291	313B	317F	52009	06/01/92	06/29/92	1	14,169
9200231	BS1814	F291	313B	317F	91222	06/01/92	06/30/92	1	1,338
9200231	BS1815	F291	313B	317F	91251	06/01/92	06/30/92	1	1,426
9200231	BS1816	F291	313B	317F	91328	06/01/92	06/30/92	1	1,434
9200231	BS1817	F291	313B	317F	91343	06/01/92	06/30/92	1	1,434
9200231	BS1818	F291	313B	317F	91353	06/01/92	06/15/92	1	636
9200231	BS1819	F291	313B	317F	91355	06/01/92	06/30/92	1	1,422
9200231	BS1820	F291	313B	317F	91377	06/01/92	06/30/92	1	1,432
9200231	BS1821	F291	313B	317F	ALSN6	06/01/92	06/30/92	1	6,442
9200231	BS1822	F291	313B	317F	BURL1	06/01/92	06/30/92	1	2,160
9200231	BS1823	F291	313B	317F	BUSL1	06/01/92	06/30/92	1	1,436
9200231	BS1824	F291	313B	317F	BUZM3	06/02/92	06/30/92	1	892
9200231	BS1825	F291	313B	317F	CAR03	06/01/92	06/30/92	1	1,436
9200231	BS1826	F291	313B	317F	CHLV2	06/01/92	06/30/92	1	7,663
9200231	BS1827	F291	313B	317F	CLKN7	06/01/92	06/30/92	1	2,154
9200231	BS1828	F291	313B	317F	CSBF1	06/01/92	06/30/92	1	2,160
9200231	BS1829	F291	313B	317F	DBLN6	06/01/92	06/30/92	1	1,436
9200231	BS1830	F291	313B	317F	DESW1	06/01/92	06/30/92	1	1,434
9200231	BS1831	F291	313B	317F	DISW3	06/01/92	06/30/92	1	1,414
9200231	BS1832	F291	313B	317F	DP1A1	06/01/92	06/30/92	1	2,157
9200231	BS1833	F291	313B	317F	DSL7	06/01/92	06/30/92	1	7,677
9200231	BS1834	F291	313B	317F	FBIS1	06/01/92	06/30/92	1	1,885
9200231	BS1835	F291	313B	317F	FFIA2	06/01/92	06/30/92	1	1,436
9200231	BS1836	F291	313B	317F	FPSN7	06/01/92	06/30/92	1	2,140
9200231	BS1837	F291	313B	317F	FWYF1	06/01/92	06/30/92	1	2,126
9200231	BS1838	F291	313B	317F	GBCL1	06/01/92	06/30/92	1	2,157
9200231	BS1839	F291	313B	317F	GDIL1	06/01/92	06/30/92	1	2,140
9200231	BS1840	F291	313B	317F	GLLN6	06/01/92	06/30/92	1	494
9200231	BS1841	F291	313B	317F	IOSN3	06/01/92	06/30/92	1	1,438
9200231	BS1842	F291	313B	317F	LNEL1	06/01/92	06/18/92	1	790
9200231	BS1843	F291	313B	317F	MDRM1	06/01/92	06/30/92	1	1,440
9200231	BS1844	F291	313B	317F	MISM1	06/01/92	06/30/92	1	1,440
9200231	BS1845	F291	313B	317F	MLRF1	06/01/92	06/30/92	1	2,016

9200231	BS1846	F291	313B	317F	MPCL1	06/01/92	06/30/92	1	2,023
9200231	BS1847	F291	313B	317F	NWPO3	06/01/92	06/30/92	1	1,432
9200231	BS1848	F291	313B	317F	PILM4	06/01/92	06/30/92	1	1,436
9200231	BS1849	F291	313B	317F	PTAC1	06/01/92	06/30/92	1	1,430
9200231	BS1850	F291	313B	317F	PTAT2	06/01/92	06/30/92	1	2,148
9200231	BS1851	F291	313B	317F	PTGC1	06/01/92	06/30/92	1	1,430
9200231	BS1852	F291	313B	317F	ROAM4	06/01/92	06/30/92	1	1,422
9200231	BS1853	F291	313B	317F	SANF1	06/01/92	06/30/92	1	2,126
9200231	BS1854	F291	313B	317F	SAUF1	06/01/92	06/29/92	1	2,032
9200231	BS1855	F291	313B	317F	SBI01	06/01/92	06/30/92	1	1,436
9200231	BS1856	F291	313B	317F	SGNW3	06/01/92	06/30/92	1	1,436
9200231	BS1857	F291	313B	317F	SISW1	06/01/92	06/30/92	1	1,434
9200231	BS1858	F291	313B	317F	SMKF1	06/01/92	06/30/92	1	2,111
9200231	BS1859	F291	313B	317F	SPGF1	06/01/92	06/30/92	1	2,159
9200231	BS1860	F291	313B	317F	SRST2	06/01/92	06/30/92	1	2,157
9200231	BS1861	F291	313B	317F	STDM4	06/01/92	06/30/92	1	1,434
9200231	BS1862	F291	313B	317F	SVLS1	06/01/92	06/30/92	1	7,556
9200231	BS1863	F291	313B	317F	TPLM2	06/01/92	06/30/92	1	2,157
9200231	BS1864	F291	313B	317F	TTIW1	06/01/92	06/30/92	1	1,438
9200231	BS1865	F291	313B	317F	VENF1	06/01/92	06/30/92	1	2,103
9200231	BS1866	F291	313B	317F	WPOW1	06/01/92	06/30/92	1	1,465

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864
 753

 113

ACCESSION NO. 9200231

FILETYPE F291

TRACK NO. _____

PROJECT IDENTIFICATION _____

BS1753 - 1866 JUNE 1992

STEP	DATE	INIT.	TAPE OR DISK DSN	NO. FILES	RECL	BLK SIZE	NO. RECORDS
ORIG. TAPE	7-22-92	P.J.R.	A01591 (D00102)	1	120	4080	492,864
DUPLICATE TAPE	9-23-92	FJM	B38154 *	1	120	4800	**
REFORMATTED TAPE							
REFORMATTED DISK							
FIRST MULCHEK							
FINAL MULCHEK							
MPD75 OR F022							
DATA SET FINALIZED							

~~ERRORS REPORTED TO PRINCIPAL INVESTIGATOR:~~

* = CARTRIDGE
 ** = ALL DATA ON SAME TAPE

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

492,864
 425,680

 918,944 RECORDS
 TOTAL

COMMENTS (TRACKS DELETED, FIELDS DELETED, ETC.)

ACCESSION NO. 9200231 FILETYPE F291

TRACK NO. _____

PROJECT IDENTIFICATION _____

JUNE 1992

STEP	DATE	INIT.	TAPE OR DISK DSN	NO. FILES	RECL	BLK SIZE	NO. RECORDS
ORIG. TAPE	7-22-92	PJR	A01592 (D0105)	1	120	4080	725680
DUPLICATE TAPE	9-23-92	FJM	B38154 *	1	120	4800	**
REFORMATTED TAPE							
REFORMATTED DISK							
FIRST MULCHEK							
FINAL MULCHEK							
MPD75 OR F022							
DATA SET FINALIZED							

ERRORS REPORTED TO PRINCIPAL INVESTIGATOR: _____

* = CARTRIDGE
 ** = All data on same TAPE

TOTAL RECORDS =
~~725680~~
 918,944

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

COMMENTS (TRACKS DELETED, FIELDS DELETED, ETC.)

User Name KU1Z	Phone # 4643	Org/Task DC13	Submit Date 8-5-92	Due Date
--------------------------	------------------------	-------------------------	------------------------------	----------

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:

SCAN TAPES

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:

ASSIGN D# 00102

JOB INPUT

Id#/Filename: **A01591/D00102**

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: **92080601**

Completed By: **JS**

Date/Time Start: **8/6/92/10:15**
Date/Time Completed: **8/6/92/10:25**

92 00231



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

July 22, 1992,

F1804-02
DB3:92-0383
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 June 1992, 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.

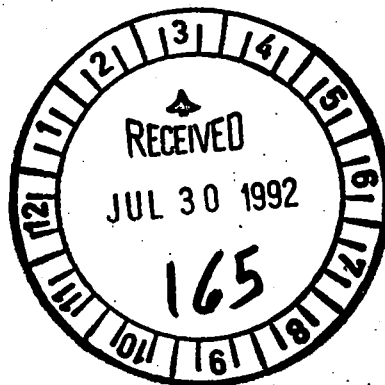
If you have any questions, please call B.G. Redmon at FTS 494-2834, or Commercial (601) 688-2834.

Sincerely,

Sallie P. Nolan

S. P. Nolan
ADP Manager

Enclosure



9200231

A01591

A01592



JUNE 1992

32302 06/01/92/00 06/30/92/23
001 06/01/92/00 06/30/92/23
002 06/01/92/00 06/30/92/23
41004 06/16/92/15 06/30/92/23
41006 06/01/92/00 06/30/92/23
41009 06/01/92/00 06/30/92/23
41010 06/01/92/00 06/30/92/23
41016 06/01/92/00 06/30/92/23
42001 06/04/92/00 06/30/92/23
42A01 06/04/92/00 06/30/92/23
42002 06/01/92/00 06/30/92/23
42003 06/01/92/00 06/30/92/23
42A03 06/25/92/20 06/30/92/23
42007 06/03/92/12 06/30/92/23
42019 06/01/92/00 06/30/92/23
42020 06/01/92/00 06/30/92/23
42025 06/01/92/00 06/30/92/23
44004 06/01/92/00 06/30/92/23
44005 06/01/92/00 06/30/92/23
44007 06/01/92/00 06/30/92/23
44008 06/01/92/00 06/30/92/23
44009 06/01/92/00 06/30/92/23
44011 06/01/92/00 06/30/92/23
44012 06/01/92/00 06/30/92/23
44013 06/01/92/00 06/30/92/23
44014 06/01/92/00 06/30/92/23
025 06/01/92/00 06/30/92/23
45001 06/01/92/00 06/30/92/23
45002 06/01/92/00 06/30/92/23
45003 06/01/92/00 06/30/92/23
45004 06/01/92/00 06/30/92/23
45005 06/01/92/00 06/30/92/23
45006 06/01/92/00 06/30/92/23
45007 06/01/92/00 06/30/92/23
45008 06/01/92/00 06/30/92/23
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46002 06/01/92/00 06/30/92/23
46003 06/01/92/00 06/30/92/23
46005 06/01/92/00 06/30/92/23
46006 06/17/92/01 06/30/92/23
46011 06/01/92/00 06/30/92/23
46012 06/01/92/00 06/30/92/23
46013 06/23/92/02 06/30/92/23
46014 06/23/92/16 06/30/92/23
46022 06/01/92/00 06/30/92/23
46023 06/01/92/00 06/30/92/23
46025 06/01/92/00 06/30/92/23
46026 06/01/92/00 06/30/92/23
46027 06/01/92/00 06/30/92/23
46028 06/12/92/18 06/30/92/23
46029 06/01/92/00 06/30/92/23
46035 06/01/92/00 06/30/92/23
A35 06/01/92/00 06/30/92/23
6040 06/01/92/00 06/03/92/05
46041 06/01/92/00 06/30/92/23
46042 06/01/92/00 06/30/92/23
46048 06/01/92/00 06/30/92/23
46A48 06/01/92/00 06/30/92/23
46050 06/01/92/00 06/30/92/23
46051 06/01/92/00 06/30/92/23
51001 06/01/92/00 06/30/92/23

51002 06/01/92/00 06/30/92/23 ·
51003 06/01/92/00 06/30/92/23 ·
51004 06/01/92/00 06/30/92/23 ·
52009 06/01/92/00 06/30/92/23 ·
91222 06/01/92/00 06/30/92/23 ·
91251 06/01/92/00 06/30/92/23 ·
91328 06/01/92/00 06/30/92/23 ·
91343 06/01/92/00 06/30/92/23 ·
91353 06/01/92/00 06/15/92/10 ·
91355 06/01/92/00 06/30/92/23 ·
91377 06/01/92/00 06/30/92/23 ·
ALSN6 06/01/92/00 06/30/92/23 ·
BURL1 06/01/92/00 06/30/92/23 ·
BUSL1 06/01/92/00 06/30/92/23 ·
BUZM3 06/02/92/15 06/30/92/23 ·
CARO3 06/01/92/00 06/30/92/23 ·
CHLV2 06/01/92/00 06/30/92/23 ·
CLKN7 06/01/92/00 06/30/92/23 ·
CSBF1 06/01/92/00 06/30/92/23 ·
DBLN6 06/01/92/00 06/30/92/23 ·
DESW1 06/01/92/00 06/30/92/23 ·
DISW3 06/01/92/00 06/30/92/23 ·
DPIA1 06/01/92/00 06/30/92/23 ·
DSLN7 06/01/92/00 06/30/92/23 ·
FBIS1 06/01/92/00 06/30/92/23 ·
FFIA2 06/01/92/00 06/30/92/23 ·
PSN7 06/01/92/00 06/30/92/23 ·
WYF1 06/01/92/00 06/30/92/23 ·
GBCL1 06/01/92/00 06/30/92/23 ·
GDIL1 06/01/92/00 06/30/92/23 ·
GLLN6 06/01/92/00 06/30/92/23 ·
IOSN3 06/01/92/00 06/30/92/23 ·
LNEL1 06/01/92/00 06/18/92/10 ·
MERM1 06/01/92/00 06/30/92/23 ·
MISM1 06/01/92/00 06/30/92/23 ·
MLRF1 06/01/92/00 06/30/92/23 ·
MPCL1 06/01/92/00 06/30/92/23 ·
NWPO3 06/01/92/00 06/30/92/23 ·
PILM4 06/01/92/00 06/30/92/23 ·
PTAC1 06/01/92/00 06/30/92/23 ·
PTAT2 06/01/92/00 06/30/92/23 ·
PTGC1 06/01/92/00 06/30/92/23 ·
ROAM4 06/01/92/00 06/30/92/23 ·
SANF1 06/01/92/00 06/30/92/23 ·
SAUF1 06/01/92/00 06/29/92/10 ·
SBI01 06/01/92/00 06/30/92/23 ·
SGNW3 06/01/92/00 06/30/92/23 ·
SISW1 06/01/92/00 06/30/92/23 ·
SMKF1 06/01/92/00 06/30/92/23 ·
SPGF1 06/01/92/00 06/30/92/23 ·
SRST2 06/01/92/00 06/30/92/23 ·
STDM4 06/01/92/00 06/30/92/23 ·
LSL 06/01/92/00 06/30/92/23 ·
LM2 06/01/92/00 06/30/92/23 ·
TTIW1 06/01/92/00 06/30/92/23 ·
VENF1 06/01/92/00 06/30/92/23 ·
WPOW1 06/01/92/00 06/30/92/23 ·

C. DATA FORMAT

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

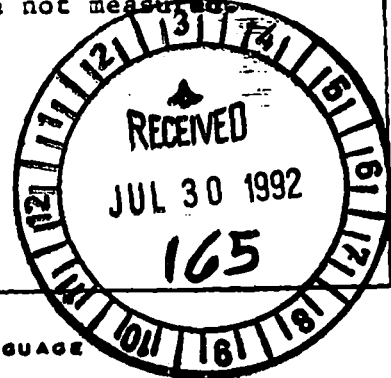
**1. LIST RECORD TYPES CONTAINED IN THE TRANSMITTAL OF YOUR FILE
GIVE METHOD OF IDENTIFYING EACH RECORD TYPE**

9200231

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"/> 356 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>4080</p> <p>13. LENGTH OF BYTES IN BITS</p> <p>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., 100-1000)</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., Min, Sec)</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. 4th 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			
DATA	34	1			X - Number of frequencies on this record
FREQUENCY	35	4			Up to 5 frequency, resolution, and density fields. Null fields are zero or blank 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 RESOLUTION	49	4			XXXX - See above
	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., 000.0000)</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. 20th byte)</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			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., Min. Space)</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 (e.g. Mts, Bytes)	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., Min. 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., 20th, 21st)</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
9200231	F291	BS1843	9999	313B	317F	1992/06/01	MDRM1	207885
9200231	F291	BS1844	9999	313B	317F	1992/06/01	MISM1	207886
9200231	F291	BS1845	9999	313B	317F	1992/06/01	MLRF1	207887
9200231	F291	BS1846	9999	313B	317F	1992/06/01	MPCL1	207888
9200231	F291	BS1847	9999	313B	317F	1992/06/01	NWPO3	207889
9200231	F291	BS1848	9999	313B	317F	1992/06/01	PILM4	207890
9200231	F291	BS1849	9999	313B	317F	1992/06/01	PTAC1	207891
9200231	F291	BS1850	9999	313B	317F	1992/06/01	PTAT2	207892
9200231	F291	BS1851	9999	313B	317F	1992/06/01	PTGC1	207893
9200231	F291	BS1852	9999	313B	317F	1992/06/01	ROAM4	207894
9200231	F291	BS1853	9999	313B	317F	1992/06/01	SANF1	207895
9200231	F291	BS1854	9999	313B	317F	1992/06/01	SAUF1	207896
9200231	F291	BS1855	9999	313B	317F	1992/06/01	SBIO1	207897
9200231	F291	BS1856	9999	313B	317F	1992/06/01	SGNW3	207898
9200231	F291	BS1857	9999	313B	317F	1992/06/01	SISW1	207899
9200231	F291	BS1858	9999	313B	317F	1992/06/01	SMKF1	207900
9200231	F291	BS1859	9999	313B	317F	1992/06/01	SPGF1	207901
9200231	F291	BS1860	9999	313B	317F	1992/06/01	SRST2	207902
9200231	F291	BS1861	9999	313B	317F	1992/06/01	STDM4	207903
9200231	F291	BS1862	9999	313B	317F	1992/06/01	SVLS1	207904
9200231	F291	BS1863	9999	313B	317F	1992/06/01	TPLM2	207905
9200231	F291	BS1864	9999	313B	317F	1992/06/01	TTIW1	207906
9200231	F291	BS1865	9999	313B	317F	1992/06/01	VENF1	207907
9200231	F291	BS1866	9999	313B	317F	1992/06/01	WPOW1	207908
9200231	F291	BS1753	9999	313B	317F	1992/06/01	32302	207795
9200231	F291	BS1754	9999	313B	317F	1992/06/01	41001	207796
9200231	F291	BS1755	9999	313B	317F	1992/06/01	41002	207797
9200231	F291	BS1756	9999	313B	317F	1992/06/16	41004	207798
9200231	F291	BS1757	9999	313B	317F	1992/06/01	41006	207799
9200231	F291	BS1758	9999	313B	317F	1992/06/01	41009	207800
9200231	F291	BS1759	9999	313B	317F	1992/06/01	41010	207801
9200231	F291	BS1760	9999	313B	317F	1992/06/01	41016	207802
9200231	F291	BS1761	9999	313B	317F	1992/06/04	42001	207803
9200231	F291	BS1762	9999	313B	317F	1992/06/01	42002	207804
9200231	F291	BS1763	9999	313B	317F	1992/06/01	42003	207805
9200231	F291	BS1764	9999	313B	317F	1992/06/03	42007	207806
9200231	F291	BS1765	9999	313B	317F	1992/06/01	42019	207807
9200231	F291	BS1766	9999	313B	317F	1992/06/01	42020	207808
9200231	F291	BS1767	9999	313B	317F	1992/06/01	42025	207809
9200231	F291	BS1768	9999	313B	317F	1992/06/01	44004	207810
9200231	F291	BS1769	9999	313B	317F	1992/06/01	44005	207811
9200231	F291	BS1770	9999	313B	317F	1992/06/01	44007	207812
9200231	F291	BS1771	9999	313B	317F	1992/06/01	44008	207813
9200231	F291	BS1772	9999	313B	317F	1992/06/01	44009	207814
9200231	F291	BS1773	9999	313B	317F	1992/06/01	44011	207815
9200231	F291	BS1774	9999	313B	317F	1992/06/01	44012	207816
9200231	F291	BS1775	9999	313B	317F	1992/06/01	44013	207817
9200231	F291	BS1776	9999	313B	317F	1992/06/01	44014	207818
9200231	F291	BS1777	9999	313B	317F	1992/06/01	44025	207819
9200231	F291	BS1778	9999	313B	317F	1992/06/01	45001	207820
9200231	F291	BS1779	9999	313B	317F	1992/06/01	45002	207821
9200231	F291	BS1780	9999	313B	317F	1992/06/01	45003	207822
9200231	F291	BS1781	9999	313B	317F	1992/06/01	45004	207823
9200231	F291	BS1782	9999	313B	317F	1992/06/01	45005	207824
9200231	F291	BS1783	9999	313B	317F	1992/06/01	45006	207825
9200231	F291	BS1784	9999	313B	317F	1992/06/01	45007	207826

9200231	F291	BS1785	9999	313B	317F	1992/06/01	45008	207827
9200231	F291	BS1786	9999	313B	317F	1992/06/01	46001	207828
9200231	F291	BS1787	9999	313B	317F	1992/06/01	46002	207829
9200231	F291	BS1788	9999	313B	317F	1992/06/01	46003	207830
9200231	F291	BS1789	9999	313B	317F	1992/06/01	46005	207831
9200231	F291	BS1790	9999	313B	317F	1992/06/17	46006	207832
9200231	F291	BS1791	9999	313B	317F	1992/06/01	46011	207833
9200231	F291	BS1792	9999	313B	317F	1992/06/01	46012	207834
9200231	F291	BS1793	9999	313B	317F	1992/06/23	46013	207835
9200231	F291	BS1794	9999	313B	317F	1992/06/23	46014	207836
9200231	F291	BS1795	9999	313B	317F	1992/06/01	46022	207837
9200231	F291	BS1796	9999	313B	317F	1992/06/01	46023	207838
9200231	F291	BS1797	9999	313B	317F	1992/06/01	46025	207839
9200231	F291	BS1798	9999	313B	317F	1992/06/01	46026	207840
9200231	F291	BS1799	9999	313B	317F	1992/06/01	46027	207841
9200231	F291	BS1800	9999	313B	317F	1992/06/12	46028	207842
9200231	F291	BS1801	9999	313B	317F	1992/06/01	46029	207843
9200231	F291	BS1802	9999	313B	317F	1992/06/01	46035	207844
9200231	F291	BS1803	9999	313B	317F	1992/06/01	46040	207845
9200231	F291	BS1804	9999	313B	317F	1992/06/01	46041	207846
9200231	F291	BS1805	9999	313B	317F	1992/06/01	46042	207847
9200231	F291	BS1806	9999	313B	317F	1992/06/01	46048	207848
9200231	F291	BS1807	9999	313B	317F	1992/06/01	46050	207849
9200231	F291	BS1808	9999	313B	317F	1992/06/01	46051	207850
9200231	F291	BS1809	9999	313B	317F	1992/06/01	51001	207851
9200231	F291	BS1810	9999	313B	317F	1992/06/01	51002	207852
9200231	F291	BS1811	9999	313B	317F	1992/06/01	51003	207853
9200231	F291	BS1812	9999	313B	317F	1992/06/01	51004	207854
9200231	F291	BS1813	9999	313B	317F	1992/06/01	52009	207855
9200231	F291	BS1814	9999	313B	317F	1992/06/01	91222	207856
9200231	F291	BS1815	9999	313B	317F	1992/06/01	91251	207857
9200231	F291	BS1816	9999	313B	317F	1992/06/01	91328	207858
9200231	F291	BS1817	9999	313B	317F	1992/06/01	91343	207859
9200231	F291	BS1818	9999	313B	317F	1992/06/01	91353	207860
9200231	F291	BS1819	9999	313B	317F	1992/06/01	91355	207861
9200231	F291	BS1820	9999	313B	317F	1992/06/01	91377	207862
9200231	F291	BS1821	9999	313B	317F	1992/06/01	ALSN6	207863
9200231	F291	BS1822	9999	313B	317F	1992/06/01	BURL1	207864
9200231	F291	BS1823	9999	313B	317F	1992/06/01	BUSL1	207865
9200231	F291	BS1824	9999	313B	317F	1992/06/02	BUZM3	207866
9200231	F291	BS1825	9999	313B	317F	1992/06/01	CARO3	207867
9200231	F291	BS1826	9999	313B	317F	1992/06/01	CHLV2	207868
9200231	F291	BS1827	9999	313B	317F	1992/06/01	CLKN7	207869
9200231	F291	BS1828	9999	313B	317F	1992/06/01	CSBF1	207870
9200231	F291	BS1829	9999	313B	317F	1992/06/01	DBLN6	207871
9200231	F291	BS1830	9999	313B	317F	1992/06/01	DESW1	207872
9200231	F291	BS1831	9999	313B	317F	1992/06/01	DISW3	207873
9200231	F291	BS1832	9999	313B	317F	1992/06/01	DPIA1	207874
9200231	F291	BS1833	9999	313B	317F	1992/06/01	DSL7	207875
9200231	F291	BS1834	9999	313B	317F	1992/06/01	FBIS1	207876
9200231	F291	BS1835	9999	313B	317F	1992/06/01	FFIA2	207877
9200231	F291	BS1836	9999	313B	317F	1992/06/01	FPSN7	207878
9200231	F291	BS1837	9999	313B	317F	1992/06/01	FWYF1	207879
9200231	F291	BS1838	9999	313B	317F	1992/06/01	GBCL1	207880
9200231	F291	BS1839	9999	313B	317F	1992/06/01	GDIL1	207881
9200231	F291	BS1840	9999	313B	317F	1992/06/01	GLLN6	207882
9200231	F291	BS1841	9999	313B	317F	1992/06/01	IOSN3	207883
9200231	F291	BS1842	9999	313B	317F	1992/06/01	LNEL1	207884

(114 rows affected)

Password:

accNo	fleA	refNo	ship	staCnt	recCnt	startDate	endDate
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9200231	F291	BS1844	317F	1	1440	92/06/01	92/06/30
9200231	F291	BS1845	317F	1	2016	92/06/01	92/06/30
9200231	F291	BS1846	317F	1	2023	92/06/01	92/06/30
9200231	F291	BS1847	317F	1	1432	92/06/01	92/06/30
9200231	F291	BS1848	317F	1	1436	92/06/01	92/06/30
9200231	F291	BS1849	317F	1	1430	92/06/01	92/06/30
9200231	F291	BS1850	317F	1	2148	92/06/01	92/06/30
9200231	F291	BS1851	317F	1	1430	92/06/01	92/06/30
9200231	F291	BS1852	317F	1	1422	92/06/01	92/06/30
9200231	F291	BS1853	317F	1	2126	92/06/01	92/06/30
9200231	F291	BS1854	317F	1	2032	92/06/01	92/06/29
9200231	F291	BS1855	317F	1	1436	92/06/01	92/06/30
9200231	F291	BS1856	317F	1	1436	92/06/01	92/06/30
9200231	F291	BS1857	317F	1	1434	92/06/01	92/06/30
9200231	F291	BS1858	317F	1	2111	92/06/01	92/06/30
9200231	F291	BS1859	317F	1	2159	92/06/01	92/06/30
9200231	F291	BS1860	317F	1	2157	92/06/01	92/06/30
9200231	F291	BS1861	317F	1	1434	92/06/01	92/06/30
9200231	F291	BS1862	317F	1	7556	92/06/01	92/06/30
9200231	F291	BS1863	317F	1	2157	92/06/01	92/06/30
9200231	F291	BS1864	317F	1	1438	92/06/01	92/06/30
9200231	F291	BS1865	317F	1	2103	92/06/01	92/06/30
9200231	F291	BS1866	317F	1	1465	92/06/01	92/06/30
9200231	F291	BS1753	317F	1	7087	92/06/01	92/06/30
9200231	F291	BS1754	317F	1	7909	92/06/01	92/06/30
9200231	F291	BS1755	317F	1	7892	92/06/01	92/06/30
9200231	F291	BS1756	317F	1	19210	92/06/16	92/06/30
9200231	F291	BS1757	317F	1	7909	92/06/01	92/06/30
9200231	F291	BS1758	317F	1	14360	92/06/01	92/06/30
9200231	F291	BS1759	317F	1	13834	92/06/01	92/06/30
9200231	F291	BS1760	317F	1	1440	92/06/01	92/06/30
9200231	F291	BS1761	317F	1	37932	92/06/04	92/06/30
9200231	F291	BS1762	317F	1	7897	92/06/01	92/06/30
9200231	F291	BS1763	317F	1	7802	92/06/01	92/06/30
9200231	F291	BS1764	317F	1	1970	92/06/03	92/06/30
9200231	F291	BS1765	317F	1	7120	92/06/01	92/06/30
9200231	F291	BS1766	317F	1	7190	92/06/01	92/06/30
9200231	F291	BS1767	317F	1	7176	92/06/01	92/06/30
9200231	F291	BS1768	317F	1	7909	92/06/01	92/06/30
9200231	F291	BS1769	317F	1	7108	92/06/01	92/06/30
9200231	F291	BS1770	317F	1	7190	92/06/01	92/06/30
9200231	F291	BS1771	317F	1	7892	92/06/01	92/06/30
9200231	F291	BS1772	317F	1	7144	92/06/01	92/06/30
9200231	F291	BS1773	317F	1	7735	92/06/01	92/06/30
9200231	F291	BS1774	317F	1	7180	92/06/01	92/06/30
9200231	F291	BS1775	317F	1	7184	92/06/01	92/06/30
9200231	F291	BS1776	317F	1	43497	92/06/01	92/06/30
9200231	F291	BS1777	317F	1	42596	92/06/01	92/06/30
9200231	F291	BS1778	317F	1	7200	92/06/01	92/06/30
9200231	F291	BS1779	317F	1	7172	92/06/01	92/06/30
9200231	F291	BS1780	317F	1	7200	92/06/01	92/06/30
9200231	F291	BS1781	317F	1	7134	92/06/01	92/06/30
9200231	F291	BS1782	317F	1	43564	92/06/01	92/06/30
9200231	F291	BS1783	317F	1	8608	92/06/01	92/06/30
9200231	F291	BS1784	317F	1	39217	92/06/01	92/06/30

9200231	F291	BS1785	317F	1	8616	92/06/01	92/06/30
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9200231	F291	BS1787	317F	1	7897	92/06/01	92/06/30
9200231	F291	BS1788	317F	1	7824	92/06/01	92/06/30
9200231	F291	BS1789	317F	1	7893	92/06/01	92/06/30
9200231	F291	BS1790	317F	1	3642	92/06/17	92/06/30
9200231	F291	BS1791	317F	1	7152	92/06/01	92/06/30
9200231	F291	BS1792	317F	1	7162	92/06/01	92/06/30
9200231	F291	BS1793	317F	1	1874	92/06/23	92/06/30
9200231	F291	BS1794	317F	1	10616	92/06/23	92/06/30
9200231	F291	BS1795	317F	1	7102	92/06/01	92/06/30
9200231	F291	BS1796	317F	1	7152	92/06/01	92/06/30
9200231	F291	BS1797	317F	1	43678	92/06/01	92/06/30
9200231	F291	BS1798	317F	1	6990	92/06/01	92/06/30
9200231	F291	BS1799	317F	1	6422	92/06/01	92/06/30
9200231	F291	BS1800	317F	1	4380	92/06/12	92/06/30
9200231	F291	BS1801	317F	1	7524	92/06/01	92/06/30
9200231	F291	BS1802	317F	1	9128	92/06/01	92/06/30
9200231	F291	BS1803	317F	1	446	92/06/01	92/06/03
9200231	F291	BS1804	317F	1	7038	92/06/01	92/06/30
9200231	F291	BS1805	317F	1	43562	92/06/01	92/06/30
9200231	F291	BS1806	317F	1	39021	92/06/01	92/06/30
9200231	F291	BS1807	317F	1	41611	92/06/01	92/06/30
9200231	F291	BS1808	317F	1	43621	92/06/01	92/06/30
9200231	F291	BS1809	317F	1	8604	92/06/01	92/06/30
9200231	F291	BS1810	317F	1	8568	92/06/01	92/06/30
9200231	F291	BS1811	317F	1	8628	92/06/01	92/06/30
9200231	F291	BS1812	317F	1	8610	92/06/01	92/06/30
9200231	F291	BS1813	317F	1	14169	92/06/01	92/06/29
9200231	F291	BS1814	317F	1	1338	92/06/01	92/06/30
9200231	F291	BS1815	317F	1	1426	92/06/01	92/06/30
9200231	F291	BS1816	317F	1	1434	92/06/01	92/06/30
9200231	F291	BS1817	317F	1	1434	92/06/01	92/06/30
9200231	F291	BS1818	317F	1	636	92/06/01	92/06/15
9200231	F291	BS1819	317F	1	1422	92/06/01	92/06/30
9200231	F291	BS1820	317F	1	1432	92/06/01	92/06/30
9200231	F291	BS1821	317F	1	6442	92/06/01	92/06/30
9200231	F291	BS1822	317F	1	2160	92/06/01	92/06/30
9200231	F291	BS1823	317F	1	1436	92/06/01	92/06/30
9200231	F291	BS1824	317F	1	892	92/06/02	92/06/30
9200231	F291	BS1825	317F	1	1436	92/06/01	92/06/30
9200231	F291	BS1826	317F	1	7663	92/06/01	92/06/30
9200231	F291	BS1827	317F	1	2154	92/06/01	92/06/30
9200231	F291	BS1828	317F	1	2160	92/06/01	92/06/30
9200231	F291	BS1829	317F	1	1436	92/06/01	92/06/30
9200231	F291	BS1830	317F	1	1434	92/06/01	92/06/30
9200231	F291	BS1831	317F	1	1414	92/06/01	92/06/30
9200231	F291	BS1832	317F	1	2157	92/06/01	92/06/30
9200231	F291	BS1833	317F	1	7677	92/06/01	92/06/30
9200231	F291	BS1834	317F	1	1885	92/06/01	92/06/30
9200231	F291	BS1835	317F	1	1436	92/06/01	92/06/30
9200231	F291	BS1836	317F	1	2140	92/06/01	92/06/30
9200231	F291	BS1837	317F	1	2126	92/06/01	92/06/30
9200231	F291	BS1838	317F	1	2157	92/06/01	92/06/30
9200231	F291	BS1839	317F	1	2140	92/06/01	92/06/30
9200231	F291	BS1840	317F	1	494	92/06/01	92/06/30
9200231	F291	BS1841	317F	1	1438	92/06/01	92/06/30
9200231	F291	BS1842	317F	1	790	92/06/01	92/06/18

(114 rows affected)