

ACC NUMBER	REF NUMBER	FILE TYPE	PROJ CODE	INST	PLAT	CRUISE NO	CRUISE START	CRUISE END	NUM STA	NUM REC
9200141	BS1646	F291		313B	317F	32302	05/01/92	05/31/92	1	7,338
9200141	BS1647	F291		313B	317F	41001	05/01/92	05/31/92	1	7,688
9200141	BS1648	F291		313B	317F	41002	05/01/92	05/31/92	1	8,131
9200141	BS1649	F291		313B	317F	41006	05/01/92	05/31/92	1	8,153
9200141	BS1650	F291		313B	317F	41009	05/01/92	05/31/92	1	14,844
9200141	BS1651	F291		313B	317F	41010	05/01/92	05/31/92	1	14,766
9200141	BS1652	F291		313B	317F	41016	05/04/92	05/31/92	1	1,336
9200141	BS1653	F291		313B	317F	42002	05/01/92	05/31/92	1	8,153
9200141	BS1654	F291		313B	317F	42003	05/01/92	05/31/92	1	7,422
9200141	BS1655	F291		313B	317F	42019	05/01/92	05/31/92	1	7,384
9200141	BS1656	F291		313B	317F	42020	05/01/92	05/31/92	1	7,404
9200141	BS1657	F291		313B	317F	42025	05/01/92	05/31/92	1	7,016
9200141	BS1658	F291		313B	317F	44004	05/01/92	05/31/92	1	8,147
9200141	BS1659	F291		313B	317F	44005	05/01/92	05/31/92	1	7,480
9200141	BS1660	F291		313B	317F	44007	05/01/92	05/31/92	1	7,404
9200141	BS1661	F291		313B	317F	44008	05/01/92	05/31/92	1	8,134
9200141	BS1662	F291		313B	317F	44009	05/01/92	05/31/92	1	7,364
9200141	BS1663	F291		313B	317F	44011	05/01/92	05/31/92	1	8,175
9200141	BS1664	F291		313B	317F	44012	05/01/92	05/31/92	1	7,410
9200141	BS1665	F291		313B	317F	44013	05/01/92	05/31/92	1	7,432
9200141	BS1666	F291		313B	317F	44014	05/01/92	05/31/92	1	45,262
9200141	BS1667	F291		313B	317F	44025	05/01/92	05/31/92	1	42,893
9200141	BS1668	F291		313B	317F	45001	05/01/92	05/31/92	1	7,390
9200141	BS1669	F291		313B	317F	45002	05/01/92	05/31/92	1	7,400
9200141	BS1670	F291		313B	317F	45003	05/01/92	05/31/92	1	7,412
9200141	BS1671	F291		313B	317F	45004	05/01/92	05/31/92	1	7,412
9200141	BS1672	F291		313B	317F	45005	05/06/92	05/31/92	1	37,645
9200141	BS1673	F291		313B	317F	45006	05/01/92	05/31/92	1	8,832
9200141	BS1674	F291		313B	317F	45007	05/01/92	05/31/92	1	43,785
9200141	BS1675	F291		313B	317F	45008	05/01/92	05/31/92	1	8,882
9200141	BS1676	F291		313B	317F	46001	05/01/92	05/31/92	1	8,142
9200141	BS1677	F291		313B	317F	46002	05/01/92	05/31/92	1	8,037
9200141	BS1678	F291		313B	317F	46003	05/01/92	05/31/92	1	7,688
9200141	BS1679	F291		313B	317F	46005	05/01/92	05/31/92	1	8,125
9200141	BS1680	F291		313B	317F	46011	05/01/92	05/31/92	1	7,410
9200141	BS1681	F291		313B	317F	46012	05/01/92	05/31/92	1	7,430
9200141	BS1682	F291		313B	317F	46022	05/01/92	05/31/92	1	7,362
9200141	BS1683	F291		313B	317F	46023	05/01/92	05/31/92	1	7,412
9200141	BS1684	F291		313B	317F	46025	05/01/92	05/31/92	1	45,083
9200141	BS1685	F291		313B	317F	46026	05/01/92	05/31/92	1	7,084
9200141	BS1686	F291		313B	317F	46027	05/01/92	05/31/92	1	6,358
9200141	BS1687	F291		313B	317F	46029	05/01/92	05/31/92	1	8,892
9200141	BS1688	F291		313B	317F	46035	05/01/92	05/31/92	1	9,140
9200141	BS1689	F291		313B	317F	46040	05/01/92	05/31/92	1	7,222
9200141	BS1690	F291		313B	317F	46041	05/01/92	05/31/92	1	7,390
9200141	BS1691	F291		313B	317F	46042	05/01/92	05/31/92	1	45,146
9200141	BS1692	F291		313B	317F	46048	05/01/92	05/31/92	1	40,957
9200141	BS1693	F291		313B	317F	46050	05/01/92	05/31/92	1	44,198
9200141	BS1694	F291		313B	317F	46051	05/01/92	05/31/92	1	45,081
9200141	BS1695	F291		313B	317F	51001	05/01/92	05/31/92	1	8,916

9200141	BS1696	F291	313B	317F	51002	05/01/92	05/31/92	1	8,790
9200141	BS1697	F291	313B	317F	51003	05/01/92	05/31/92	1	8,876
9200141	BS1698	F291	313B	317F	51004	05/01/92	05/31/92	1	8,866
9200141	BS1699	F291	313B	317F	52009	05/01/92	05/31/92	1	28,671
9200141	BS1700	F291	313B	317F	91222	05/01/92	05/31/92	1	900
9200141	BS1701	F291	313B	317F	91251	05/01/92	05/31/92	1	1,466
9200141	BS1702	F291	313B	317F	91328	05/01/92	05/31/92	1	1,474
9200141	BS1703	F291	313B	317F	91343	05/01/92	05/31/92	1	1,476
9200141	BS1704	F291	313B	317F	91353	05/01/92	05/31/92	1	1,466
9200141	BS1705	F291	313B	317F	91355	05/01/92	05/31/92	1	1,464
9200141	BS1706	F291	313B	317F	91377	05/01/92	05/31/92	1	1,478
9200141	BS1707	F291	313B	317F	ALSN6	05/01/92	05/31/92	1	6,700
9200141	BS1708	F291	313B	317F	BURL1	05/01/92	05/31/92	1	2,222
9200141	BS1709	F291	313B	317F	BUSL1	05/01/92	05/31/92	1	1,484
9200141	BS1710	F291	313B	317F	BUZM3	05/01/92	05/28/92	1	1,248
9200141	BS1711	F291	313B	317F	CAR03	05/01/92	05/31/92	1	1,484
9200141	BS1712	F291	313B	317F	CHLV2	05/01/92	05/31/92	1	7,914
9200141	BS1713	F291	313B	317F	CLKN7	05/01/92	05/31/92	1	2,221
9200141	BS1714	F291	313B	317F	CSBF1	05/01/92	05/31/92	1	2,223
9200141	BS1715	F291	313B	317F	DBLN6	05/01/92	05/31/92	1	1,402
9200141	BS1716	F291	313B	317F	DESW1	05/01/92	05/31/92	1	1,484
9200141	BS1717	F291	313B	317F	DISW3	05/12/92	05/31/92	1	878
9200141	BS1718	F291	313B	317F	DPIA1	05/01/92	05/31/92	1	2,219
9200141	BS1719	F291	313B	317F	DSLN7	05/01/92	05/31/92	1	7,817
9200141	BS1720	F291	313B	317F	FBIS1	05/01/92	05/31/92	1	2,220
9200141	BS1721	F291	313B	317F	FFIA2	05/01/92	05/31/92	1	1,470
9200141	BS1722	F291	313B	317F	FPSN7	05/01/92	05/31/92	1	2,221
9200141	BS1723	F291	313B	317F	FWYF1	05/01/92	05/31/92	1	2,120
9200141	BS1724	F291	313B	317F	GBCL1	05/01/92	05/31/92	1	2,217
9200141	BS1725	F291	313B	317F	GDIL1	05/01/92	05/31/92	1	2,224
9200141	BS1726	F291	313B	317F	GLLN6	05/01/92	05/31/92	1	1,402
9200141	BS1727	F291	313B	317F	IOSN3	05/01/92	05/31/92	1	1,482
9200141	BS1728	F291	313B	317F	LNEL1	05/13/92	05/31/92	1	860
9200141	BS1729	F291	313B	317F	MDRM1	05/01/92	05/31/92	1	1,470
9200141	BS1730	F291	313B	317F	MISM1	05/01/92	05/31/92	1	1,482
9200141	BS1731	F291	313B	317F	MLRF1	05/01/92	05/31/92	1	2,109
9200141	BS1732	F291	313B	317F	MPCL1	05/01/92	05/31/92	1	4,410
9200141	BS1733	F291	313B	317F	NWPO3	05/01/92	05/31/92	1	1,480
9200141	BS1734	F291	313B	317F	PILM4	05/01/92	05/31/92	1	1,404
9200141	BS1735	F291	313B	317F	PTAC1	05/01/92	05/31/92	1	1,484
9200141	BS1736	F291	313B	317F	PTAT2	05/01/92	05/31/92	1	2,223
9200141	BS1737	F291	313B	317F	PTGC1	05/01/92	05/31/92	1	1,482
9200141	BS1738	F291	313B	317F	ROAM4	05/01/92	05/31/92	1	1,378
9200141	BS1739	F291	313B	317F	SANF1	05/01/92	05/31/92	1	2,122
9200141	BS1740	F291	313B	317F	SAUF1	05/01/92	05/31/92	1	2,091
9200141	BS1741	F291	313B	317F	SBI01	05/01/92	05/31/92	1	1,376
9200141	BS1742	F291	313B	317F	SGNW3	05/01/92	05/31/92	1	1,404
9200141	BS1743	F291	313B	317F	SISW1	05/01/92	05/31/92	1	1,480
9200141	BS1744	F291	313B	317F	SMKF1	05/01/92	05/31/92	1	2,217
9200141	BS1745	F291	313B	317F	SPGF1	05/01/92	05/31/92	1	1,966
9200141	BS1746	F291	313B	317F	SRST2	05/01/92	05/31/92	1	2,225
9200141	BS1747	F291	313B	317F	STDMA	05/01/92	05/31/92	1	1,476
9200141	BS1748	F291	313B	317F	SVLS1	05/01/92	05/31/92	1	7,505
9200141	BS1749	F291	313B	317F	TPLM2	05/01/92	05/31/92	1	2,115
9200141	BS1750	F291	313B	317F	TTIW1	05/01/92	05/31/92	1	1,482

9200141	BS1751	F291	313B 317F	VENF1	05/01/92	05/31/92	1	2,221
92001	BS1752	F291	313B 317F	WPOW1	05/01/92	05/31/92	1	1,512
=====								

752  
646  

---

1106

ACCESSION NO. 9200141 FILETYPE 291 TRACK NO. \_\_\_\_\_ PROJECT IDENTIFICATION \_\_\_\_\_

BS1646-1752

STEP	DATE	INIT.	TAPE OR DISK DSN	NO. FILES	LRECL	BLK SIZE	NO. RECORDS
ORIG. TAPE	7-13-92	JR	A01582/DO25 <sup>93</sup>	1	120	4080	770,338
DUPLICATE TAPE	<del>7-13-92</del>	<del>JR</del>	<del>A01582/DO25<sup>93</sup></del>	<del>1</del>	<del>120</del>	<del>4080</del>	<del>770,338</del>
REFORMATTED TAPE <b>CART.</b>	9-24-92	FJM	B38153**	1	120	4800	770,338
REFORMATTED DISK							
FIRST MULCHEK							
FINAL MULCHEK							
MPD75 OR F022							
DATA SET FINALIZED							

ERRORS REPORTED TO PRINCIPAL INVESTIGATOR: \* 6250/ASCII/NL  
 \*\* = CARTRIDGE

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

\*\* BOTH TAPES COPIED TO SINGLE TAPE  
 TOTAL RECORDS = 885,666

COMMENTS (TRACKS DELETED, FIELDS DELETED, ETC.)

ACCESSION NO. 9200141

FILETYPE 291

TRACK NO. \_\_\_\_\_

PROJECT IDENTIFICATION \_\_\_\_\_

**BS1646 - 1752**

STEP	DATE	INIT.	TAPE OR DISK DSN	NO. FILES	LRECL	BLK SIZE	NO. RECORDS
ORIG. TAPE	7-13-92	<del>PH</del>	<del>AP1583/002574*</del>	1	120	4080	115,328
DUPLICATE TAPE	<del>7-13-92</del>	<del>PH</del>	<del>AP1583/002574*</del>	<del>1</del>	<del>120</del>	<del>4080</del>	<del>115,328</del>
REFORMATTED TAPE <i>CART</i>	9-23-92	FJM	B38153**	1	120	4800	115,328***
REFORMATTED DISK							
FIRST MULCHEK							
FINAL MULCHEK							
MPD75 OR F022							
DATA SET FINALIZED							

ERRORS REPORTED TO PRINCIPAL INVESTIGATOR: \*6250/ASCII/ALL

\*\* = cartridge  
 \*\*\* = BOTH TAPES COPIED TO SINGLE TAPE

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

TOTAL RECORDS = 885,666

COMMENTS (TRACKS DELETED, FIELDS DELETED, ETC.)

User Name VIZ	Phone # 4643	Org/Task OC13	Submit Date 7-13-92	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:

**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  |  |
| 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:

SCAN AND ASSIGN D#(D#2593)

**JOB INPUT**

Id#/Filename: AD15PZ

Medium:  Tape  Disk  Diskette  Other Specify: \_\_\_\_\_

Code:  ASCII  EBCDIC  Binary  Other Specify: \_\_\_\_\_

Tape Specs:  800  1600  6250  NL  SL

MAX Record Length: 120 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: 92071304  
Completed By: MOORE

Date/Time Start: 7/13/1500  
Date/Time Completed: 7/13/1510

User Name <i>Wiz</i>	Phone # <i>4643</i>	Org/Task <i>DC13</i>	Submit Date <i>7-13-92</i>	Due Date
-------------------------	------------------------	-------------------------	-------------------------------	----------

**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        |   |   |                                   |

Request/Problem Description:

**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 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:

*SCAN AND ASSIGN D# (D#2594)*

**JOB INPUT**

Id#/Filename: *A01583*

*TAPE 2*

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: *92071303*  
 Completed By: *Moore*

Date/Time Start: *7/13/92/459*  
 Date/Time Completed: *7/13/1505*



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

June 24, 1992,

F1804-02  
DB3:92-0350  
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 May 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

9200141  
A01582  
A01583





MAY 1992

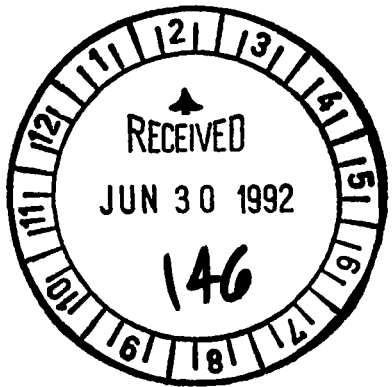
32302 05/01/92/00 05/31/92/23  
41001 05/01/92/00 05/31/92/23  
41002 05/01/92/00 05/31/92/23  
41006 05/01/92/00 05/31/92/23  
41009 05/01/92/00 05/31/92/23  
41010 05/01/92/00 05/31/92/23  
41016 05/04/92/00 05/31/92/23  
42002 05/01/92/00 05/31/92/23  
42003 05/01/92/00 05/31/92/23  
42019 05/01/92/00 05/31/92/23  
42020 05/01/92/00 05/31/92/23  
42025 05/01/92/00 05/31/92/23  
44004 05/01/92/00 05/31/92/23  
44005 05/01/92/00 05/31/92/23  
44007 05/01/92/00 05/31/92/23  
44008 05/01/92/00 05/31/92/23  
44009 05/01/92/00 05/31/92/23  
44011 05/01/92/00 05/31/92/23  
44012 05/01/92/00 05/31/92/23  
44013 05/01/92/00 05/31/92/23  
44014 05/01/92/00 05/31/92/23  
44025 05/01/92/00 05/31/92/23  
45001 05/01/92/00 05/31/92/23  
45002 05/01/92/00 05/31/92/23  
45003 05/01/92/00 05/31/92/23  
45004 05/01/92/00 05/31/92/23  
45005 05/06/92/00 05/31/92/23  
45006 05/01/92/00 05/31/92/23  
45007 05/01/92/00 05/31/92/23  
45008 05/01/92/00 05/31/92/23  
46001 05/01/92/00 05/31/92/23  
46002 05/01/92/00 05/31/92/23  
46003 05/01/92/00 05/31/92/23  
46005 05/01/92/00 05/31/92/23  
46011 05/01/92/00 05/31/92/23  
46012 05/01/92/00 05/31/92/23  
46022 05/01/92/00 05/31/92/23  
46023 05/01/92/00 05/31/92/23  
46025 05/01/92/00 05/31/92/23  
46026 05/01/92/00 05/31/92/23  
46027 05/01/92/00 05/31/92/23  
46029 05/01/92/00 05/31/92/23  
46035 05/01/92/00 05/31/92/23  
46A35 05/01/92/00 05/31/92/23  
46040 05/01/92/00 05/31/92/23  
46041 05/01/92/00 05/31/92/23  
46042 05/01/92/00 05/31/92/23  
46048 05/01/92/00 05/31/92/23  
46A48 05/01/92/00 05/31/92/23  
46050 05/01/92/00 05/31/92/23  
46051 05/01/92/00 05/31/92/23  
51001 05/01/92/00 05/31/92/23  
51002 05/01/92/00 05/31/92/23  
51003 05/01/92/00 05/31/92/23  
51004 05/01/92/00 05/31/92/23  
52009 05/01/92/00 05/31/92/23  
91222 05/01/92/00 05/31/92/23  
91251 05/01/92/00 05/31/92/23  
91328 05/01/92/00 05/31/92/23  
91343 05/01/92/00 05/31/92/23  
91353 05/01/92/00 05/31/92/23  
91355 05/01/92/00 05/31/92/23

9200141



91377 05/01/92/00 05/31/92/23  
 ALSN6 05/01/92/00 05/31/92/23  
 BURL1 05/01/92/00 05/31/92/23  
 BURL1 05/01/92/00 05/31/92/23  
 M3 05/01/92/00 05/28/92/00  
 CARO3 05/01/92/00 05/31/92/23  
 CHLV2 05/01/92/00 05/31/92/23  
 CLKN7 05/01/92/00 05/31/92/23  
 CSBF1 05/01/92/00 05/31/92/23  
 DBLN6 05/01/92/00 05/31/92/23  
 DESW1 05/01/92/00 05/31/92/23  
 DISW3 05/12/92/21 05/31/92/23  
 DPIA1 05/01/92/00 05/31/92/23  
 DSLN7 05/01/92/00 05/31/92/23  
 FBIS1 05/01/92/00 05/31/92/23  
 FFIA2 05/01/92/00 05/31/92/23  
 FPSN7 05/01/92/00 05/31/92/23  
 FWYF1 05/01/92/00 05/31/92/23  
 GBCL1 05/01/92/00 05/31/92/23  
 GDIL1 05/01/92/00 05/31/92/23  
 GLLN6 05/01/92/00 05/31/92/23  
 IOSN3 05/01/92/00 05/31/92/23  
 LNEL1 05/13/92/13 05/31/92/23  
 MDRM1 05/01/92/00 05/31/92/23  
 MISM1 05/01/92/00 05/31/92/23  
 MLRF1 05/01/92/00 05/31/92/23  
 MPCL1 05/01/92/00 05/31/92/23  
 NPO3 05/01/92/00 05/31/92/23  
 M4 05/01/92/00 05/31/92/23  
 PAC1 05/01/92/00 05/31/92/23  
 PTAT2 05/01/92/00 05/31/92/23  
 PTGC1 05/01/92/00 05/31/92/23  
 ROAM4 05/01/92/00 05/31/92/23  
 SANF1 05/01/92/00 05/31/92/23  
 SAUF1 05/01/92/00 05/31/92/23  
 SBIO1 05/01/92/00 05/31/92/23  
 SGNW3 05/01/92/00 05/31/92/23  
 SISW1 05/01/92/00 05/31/92/23  
 SMK1 05/01/92/00 05/31/92/23  
 SPGF1 05/01/92/00 05/31/92/23  
 SRST2 05/01/92/00 05/31/92/23  
 STDM4 05/01/92/00 05/31/92/23  
 SVLS1 05/01/92/00 05/31/92/23  
 TPLM2 05/01/92/00 05/31/92/23  
 TTIW1 05/01/92/00 05/31/92/23  
 VENF1 05/01/92/00 05/31/92/23  
 WPOW1 05/01/92/00 05/31/92/23

109



**C. DATA FORMAT**

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

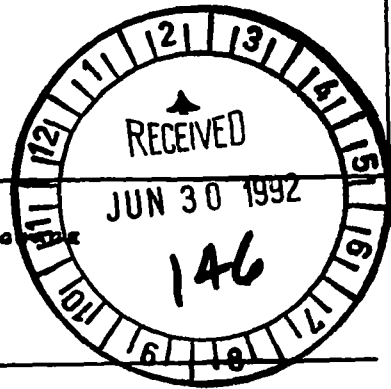
**1. LIST RECORD TYPES CONTAINED IN THE TRANSMITTAL OF YOUR FILE  
GIVE METHOD OF IDENTIFYING EACH RECORD TYPE**

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"/> 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 align="center">4080</p> <p>13. LENGTH OF BYTES IN BITS</p> <p 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  (e.g., 20th space)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
<b>DESCRIPTIVE HEADER RECORD (RECORD A)</b>					
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'	116	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  (e.g., Min, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
<b>ENVIRONMENTAL DATA RECORD (RECORD B)</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. 200.000)</small>	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
<b>ENVIRONMENTAL DATA RECORD (RECORD B) (Continued)</b>					
CONDUCTIVITY (SEA SURFACE)	89	5			XXXX - 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.					
<b>NONDIRECTIONAL WAVE SPECTRA DATA RECORD (RECORD C)</b>					
FILE TYPE	1	3			"291" (constant)
FILE DATE	4	6			YMMDD of file generation
RECORD TYPE	10	1			Always 'C'
STATION	11	6			Six characters unique name of observation point
OBSERVED DATE	17	6			YMMDD (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 <sup>2</sup> /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		
<b>NONDIRECTIONAL WAVE SPECTRA DATA RECORD (RECORD C) (Continued)</b>					
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			
<b>SUBSURFACE TEMPERATURE/SALINITY DATA RECORD (RECORD D)</b>					
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
<b>SUBSURFACE CURRENT DATA RECORD (RECORD E)</b>					
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		
<b>SUBSURFACE CURRENT DATA RECORD (RECORD E) (Continued)</b>					
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 <sup>2</sup> ) 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			
<b>SUBSURFACE DATA PROFILE (RECORD F)</b>					
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		
<b>SUBSURFACE DATA PROFILE (RECORD F) (Continued)</b>					
PHOTOSYNTHETIC ACTIVE RADIATION (PAR)	31	4			XXXX - Micromol/sec/m <sup>2</sup>
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			
<b>CO AND QUAD SPECTRA FOR DIRECTIONAL WAVES DATA RECORD (RECORD G)</b>					
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 <sup>2</sup> /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, Sec)</small>	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
<b>CO AND QUAD SPECTRA FOR DIRECTIONAL WAVES DATA RECORD (RECORD G) (Continued)</b>					
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.					
<b>DIRECTIONAL WAVE FOURIER COEFFICIENT DATA RECORD (RECORD H)</b>					
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 <sub>0</sub> )	36	6			XXXXXX - m <sup>2</sup> /Hz
EXPONENT	42	2			XX
ANGULAR FOURIER COEFF (a <sub>1</sub> )	44	6			XXXXXX - m <sup>2</sup> /Hz
EXPONENT	50	2			XX
ANGULAR FOURIER COEFF (b <sub>1</sub> )	52	6			XXXXXX - m <sup>2</sup> /Hz
EXPONENT	58	2			XX
ANGULAR FOURIER COEFF (a <sub>2</sub> )	60	6			XXXXXX - m <sup>2</sup> /Hz
EXPONENT	66	2			XX
ANGULAR FOURIER COEFF (b <sub>2</sub> )	68	6			XXXXXX - m <sup>2</sup> /Hz
EXPONENT	74	2			XX
ANGULAR FOURIER COEFF (a <sub>3</sub> )	76	6			XXXXXX - m <sup>2</sup> /Hz
EXPONENT	82	2			XX
ANGULAR FOURIER COEFF (b <sub>3</sub> )	84	6			XXXXXX - m <sup>2</sup> /Hz
EXPONENT	90	2			XX
ANGULAR FOURIER COEFF (a <sub>4</sub> )	92	6			XXXXXX - m <sup>2</sup> /Hz
EXPONENT	98	2			XX
ANGULAR FOURIER COEFF (b <sub>4</sub> )	100	6			XXXXXX - m <sup>2</sup> /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>(0-9- 8th. byte)</small>	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
<b>DIRECTIONAL WAVE FOURIER COEFFICIENT DATA RECORD (RECORD H) (Continued)</b>					
MEAN WAVE DIRECTION	108	3			XXX - ARCTAN $b_1/a_1$ in whole degrees from true North
BLANKS	111	10			
<b>DIRECTIONAL WAVE PARAMETER DATA RECORD (RECORD I)</b>					
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., Mils, Bytes)</small>	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
<b>DIRECTIONAL WAVE PARAMETER DATA RECORDS (RECORD I)</b>				<b>Continued</b>	
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 <sup>2</sup> /Hz to the thousandth
BLANKS	118	3			
<p><b>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.</b>  <math>D(f,A)=(1/PI)*(0.5+R1*COS(A-ALPHA1)+R2*COS(2*(A-ALPHA2)))</math>, 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  <math>R1=(SQRT(a_1*a_1+b_1*b_1))/a_0</math>, <math>R2=(SQRT(a_2*a_2+b_2*b_2))/a_0</math>, <math>ALPHA1=ARCTAN(b_1,a_1)</math>, <math>ALPHA2=0.5*ARCTAN(b_2,a_2)+0.</math> or 180., C11(f) is the nondirectional wave spectra data from RECORD C.</p>					
<b>CONTINUOUS WIND MEASUREMENT DATA RECORD (RECORD J)</b>					
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., 40m, 3yrsec)</small>	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
<b>CONTINUOUS WIND MEASUREMENT (RECORD J) (Continued)</b>					
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
9200141	F291	BS1719	9999	313B	317F	1992/05/01	DSL7	206864
9200141	F291	BS1720	9999	313B	317F	1992/05/01	FBIS1	206865
9200141	F291	BS1721	9999	313B	317F	1992/05/01	FFIA2	206866
9200141	F291	BS1722	9999	313B	317F	1992/05/01	FPSN7	206867
9200141	F291	BS1723	9999	313B	317F	1992/05/01	FWYF1	206868
9200141	F291	BS1724	9999	313B	317F	1992/05/01	GBCL1	206869
9200141	F291	BS1725	9999	313B	317F	1992/05/01	GDIL1	206870
9200141	F291	BS1726	9999	313B	317F	1992/05/01	GLLN6	206871
9200141	F291	BS1727	9999	313B	317F	1992/05/01	IOSN3	206872
9200141	F291	BS1728	9999	313B	317F	1992/05/13	LNEL1	206873
9200141	F291	BS1729	9999	313B	317F	1992/05/01	MDRM1	206874
9200141	F291	BS1730	9999	313B	317F	1992/05/01	MISM1	206875
9200141	F291	BS1731	9999	313B	317F	1992/05/01	MLRF1	206876
9200141	F291	BS1732	9999	313B	317F	1992/05/01	MPCL1	206877
9200141	F291	BS1733	9999	313B	317F	1992/05/01	NWPO3	206878
9200141	F291	BS1734	9999	313B	317F	1992/05/01	PILM4	206879
9200141	F291	BS1735	9999	313B	317F	1992/05/01	PTAC1	206880
9200141	F291	BS1736	9999	313B	317F	1992/05/01	PTAT2	206881
9200141	F291	BS1737	9999	313B	317F	1992/05/01	PTGC1	206882
9200141	F291	BS1738	9999	313B	317F	1992/05/01	ROAM4	206883
9200141	F291	BS1739	9999	313B	317F	1992/05/01	SANF1	206884
9200141	F291	BS1740	9999	313B	317F	1992/05/01	SAUF1	206885
9200141	F291	BS1741	9999	313B	317F	1992/05/01	SBIO1	206886
9200141	F291	BS1742	9999	313B	317F	1992/05/01	SGNW3	206887
9200141	F291	BS1743	9999	313B	317F	1992/05/01	SISW1	206888
9200141	F291	BS1744	9999	313B	317F	1992/05/01	SMKF1	206889
9200141	F291	BS1745	9999	313B	317F	1992/05/01	SPGF1	206890
9200141	F291	BS1746	9999	313B	317F	1992/05/01	SRST2	206891
9200141	F291	BS1747	9999	313B	317F	1992/05/01	STDM4	206892
9200141	F291	BS1748	9999	313B	317F	1992/05/01	SVLS1	206893
9200141	F291	BS1749	9999	313B	317F	1992/05/01	TPLM2	206894
9200141	F291	BS1750	9999	313B	317F	1992/05/01	TTIW1	206895
9200141	F291	BS1751	9999	313B	317F	1992/05/01	VENF1	206896
9200141	F291	BS1752	9999	313B	317F	1992/05/01	WPOW1	206897
9200141	F291	BS1646	9999	313B	317F	1992/05/01	32302	206791
9200141	F291	BS1647	9999	313B	317F	1992/05/01	41001	206792
9200141	F291	BS1648	9999	313B	317F	1992/05/01	41002	206793
9200141	F291	BS1649	9999	313B	317F	1992/05/01	41006	206794
9200141	F291	BS1650	9999	313B	317F	1992/05/01	41009	206795
9200141	F291	BS1651	9999	313B	317F	1992/05/01	41010	206796
9200141	F291	BS1652	9999	313B	317F	1992/05/04	41016	206797
9200141	F291	BS1653	9999	313B	317F	1992/05/01	42002	206798
9200141	F291	BS1654	9999	313B	317F	1992/05/01	42003	206799
9200141	F291	BS1655	9999	313B	317F	1992/05/01	42019	206800
9200141	F291	BS1656	9999	313B	317F	1992/05/01	42020	206801
9200141	F291	BS1657	9999	313B	317F	1992/05/01	42025	206802
9200141	F291	BS1658	9999	313B	317F	1992/05/01	44004	206803
9200141	F291	BS1659	9999	313B	317F	1992/05/01	44005	206804
9200141	F291	BS1660	9999	313B	317F	1992/05/01	44007	206805
9200141	F291	BS1661	9999	313B	317F	1992/05/01	44008	206806
9200141	F291	BS1662	9999	313B	317F	1992/05/01	44009	206807
9200141	F291	BS1663	9999	313B	317F	1992/05/01	44011	206808
9200141	F291	BS1664	9999	313B	317F	1992/05/01	44012	206809
9200141	F291	BS1665	9999	313B	317F	1992/05/01	44013	206810
9200141	F291	BS1666	9999	313B	317F	1992/05/01	44014	206811
9200141	F291	BS1667	9999	313B	317F	1992/05/01	44025	206812

9200141	F291	BS1668	9999	313B	317F	1992/05/01	45001	206813
9200141	F291	BS1669	9999	313B	317F	1992/05/01	45002	206814
9200141	F291	BS1670	9999	313B	317F	1992/05/01	45003	206815
9200141	F291	BS1671	9999	313B	317F	1992/05/01	45004	206816
9200141	F291	BS1672	9999	313B	317F	1992/05/06	45005	206817
9200141	F291	BS1673	9999	313B	317F	1992/05/01	45006	206818
9200141	F291	BS1674	9999	313B	317F	1992/05/01	45007	206819
9200141	F291	BS1675	9999	313B	317F	1992/05/01	45008	206820
9200141	F291	BS1676	9999	313B	317F	1992/05/01	46001	206821
9200141	F291	BS1677	9999	313B	317F	1992/05/01	46002	206822
9200141	F291	BS1678	9999	313B	317F	1992/05/01	46003	206823
9200141	F291	BS1679	9999	313B	317F	1992/05/01	46005	206824
9200141	F291	BS1680	9999	313B	317F	1992/05/01	46011	206825
9200141	F291	BS1681	9999	313B	317F	1992/05/01	46012	206826
9200141	F291	BS1682	9999	313B	317F	1992/05/01	46022	206827
9200141	F291	BS1683	9999	313B	317F	1992/05/01	46023	206828
9200141	F291	BS1684	9999	313B	317F	1992/05/01	46025	206829
9200141	F291	BS1685	9999	313B	317F	1992/05/01	46026	206830
9200141	F291	BS1686	9999	313B	317F	1992/05/01	46027	206831
9200141	F291	BS1687	9999	313B	317F	1992/05/01	46029	206832
9200141	F291	BS1688	9999	313B	317F	1992/05/01	46035	206833
9200141	F291	BS1689	9999	313B	317F	1992/05/01	46040	206834
9200141	F291	BS1690	9999	313B	317F	1992/05/01	46041	206835
9200141	F291	BS1691	9999	313B	317F	1992/05/01	46042	206836
9200141	F291	BS1692	9999	313B	317F	1992/05/01	46048	206837
9200141	F291	BS1693	9999	313B	317F	1992/05/01	46050	206838
9200141	F291	BS1694	9999	313B	317F	1992/05/01	46051	206839
9200141	F291	BS1695	9999	313B	317F	1992/05/01	51001	206840
9200141	F291	BS1696	9999	313B	317F	1992/05/01	51002	206841
9200141	F291	BS1697	9999	313B	317F	1992/05/01	51003	206842
9200141	F291	BS1698	9999	313B	317F	1992/05/01	51004	206843
9200141	F291	BS1699	9999	313B	317F	1992/05/01	52009	206844
9200141	F291	BS1700	9999	313B	317F	1992/05/01	91222	206845
9200141	F291	BS1701	9999	313B	317F	1992/05/01	91251	206846
9200141	F291	BS1702	9999	313B	317F	1992/05/01	91328	206847
9200141	F291	BS1703	9999	313B	317F	1992/05/01	91343	206848
9200141	F291	BS1704	9999	313B	317F	1992/05/01	91353	206849
9200141	F291	BS1705	9999	313B	317F	1992/05/01	91355	206850
9200141	F291	BS1706	9999	313B	317F	1992/05/01	91377	206851
9200141	F291	BS1707	9999	313B	317F	1992/05/01	ALSN6	206852
9200141	F291	BS1708	9999	313B	317F	1992/05/01	BURL1	206853
9200141	F291	BS1709	9999	313B	317F	1992/05/01	BUSL1	206854
9200141	F291	BS1710	9999	313B	317F	1992/05/01	BUZM3	206855
9200141	F291	BS1711	9999	313B	317F	1992/05/01	CAR03	206856
9200141	F291	BS1712	9999	313B	317F	1992/05/01	CHLV2	206857
9200141	F291	BS1713	9999	313B	317F	1992/05/01	CLKN7	206858
9200141	F291	BS1714	9999	313B	317F	1992/05/01	CSBF1	206859
9200141	F291	BS1715	9999	313B	317F	1992/05/01	DBLN6	206860
9200141	F291	BS1716	9999	313B	317F	1992/05/01	DESW1	206861
9200141	F291	BS1717	9999	313B	317F	1992/05/12	DISW3	206862
9200141	F291	BS1718	9999	313B	317F	1992/05/01	DPIA1	206863

(107 rows affected)



Password:

accNo	fleA	refNo	ship	staCnt	recCnt	startDate	endDate
9200141	F291	BS1719	317F	1	7817	92/05/01	92/05/31
9200141	F291	BS1720	317F	1	2220	92/05/01	92/05/31
9200141	F291	BS1721	317F	1	1470	92/05/01	92/05/31
9200141	F291	BS1722	317F	1	2221	92/05/01	92/05/31
9200141	F291	BS1723	317F	1	2120	92/05/01	92/05/31
9200141	F291	BS1724	317F	1	2217	92/05/01	92/05/31
9200141	F291	BS1725	317F	1	2224	92/05/01	92/05/31
9200141	F291	BS1726	317F	1	1402	92/05/01	92/05/31
9200141	F291	BS1727	317F	1	1482	92/05/01	92/05/31
9200141	F291	BS1728	317F	1	860	92/05/13	92/05/31
9200141	F291	BS1729	317F	1	1470	92/05/01	92/05/31
9200141	F291	BS1730	317F	1	1482	92/05/01	92/05/31
9200141	F291	BS1731	317F	1	2109	92/05/01	92/05/31
9200141	F291	BS1732	317F	1	4410	92/05/01	92/05/31
9200141	F291	BS1733	317F	1	1480	92/05/01	92/05/31
9200141	F291	BS1734	317F	1	1404	92/05/01	92/05/31
9200141	F291	BS1735	317F	1	1484	92/05/01	92/05/31
9200141	F291	BS1736	317F	1	2223	92/05/01	92/05/31
9200141	F291	BS1737	317F	1	1482	92/05/01	92/05/31
9200141	F291	BS1738	317F	1	1378	92/05/01	92/05/31
9200141	F291	BS1739	317F	1	2122	92/05/01	92/05/31
9200141	F291	BS1740	317F	1	2091	92/05/01	92/05/31
9200141	F291	BS1741	317F	1	1376	92/05/01	92/05/31
9200141	F291	BS1742	317F	1	1404	92/05/01	92/05/31
9200141	F291	BS1743	317F	1	1480	92/05/01	92/05/31
9200141	F291	BS1744	317F	1	2217	92/05/01	92/05/31
9200141	F291	BS1745	317F	1	1966	92/05/01	92/05/31
9200141	F291	BS1746	317F	1	2225	92/05/01	92/05/31
9200141	F291	BS1747	317F	1	1476	92/05/01	92/05/31
9200141	F291	BS1748	317F	1	7505	92/05/01	92/05/31
9200141	F291	BS1749	317F	1	2115	92/05/01	92/05/31
9200141	F291	BS1750	317F	1	1482	92/05/01	92/05/31
9200141	F291	BS1751	317F	1	2221	92/05/01	92/05/31
9200141	F291	BS1752	317F	1	1512	92/05/01	92/05/31
9200141	F291	BS1646	317F	1	7337	92/05/01	92/05/31
9200141	F291	BS1647	317F	1	7688	92/05/01	92/05/31
9200141	F291	BS1648	317F	1	8131	92/05/01	92/05/31
9200141	F291	BS1649	317F	1	8153	92/05/01	92/05/31
9200141	F291	BS1650	317F	1	14844	92/05/01	92/05/31
9200141	F291	BS1651	317F	1	14766	92/05/01	92/05/31
9200141	F291	BS1652	317F	1	1336	92/05/04	92/05/31
9200141	F291	BS1653	317F	1	8153	92/05/01	92/05/31
9200141	F291	BS1654	317F	1	7422	92/05/01	92/05/31
9200141	F291	BS1655	317F	1	7384	92/05/01	92/05/31
9200141	F291	BS1656	317F	1	7404	92/05/01	92/05/31
9200141	F291	BS1657	317F	1	7016	92/05/01	92/05/31
9200141	F291	BS1658	317F	1	8147	92/05/01	92/05/31
9200141	F291	BS1659	317F	1	7480	92/05/01	92/05/31
9200141	F291	BS1660	317F	1	7404	92/05/01	92/05/31
9200141	F291	BS1661	317F	1	8134	92/05/01	92/05/31
9200141	F291	BS1662	317F	1	7364	92/05/01	92/05/31
9200141	F291	BS1663	317F	1	8175	92/05/01	92/05/31
9200141	F291	BS1664	317F	1	7410	92/05/01	92/05/31
9200141	F291	BS1665	317F	1	7432	92/05/01	92/05/31
9200141	F291	BS1666	317F	1	45262	92/05/01	92/05/31
9200141	F291	BS1667	317F	1	42893	92/05/01	92/05/31

9200141	F291	BS1668	317F	1	7390	92/05/01	92/05/31
9200141	F291	BS1669	317F	1	7400	92/05/01	92/05/31
9200141	F291	BS1670	317F	1	7412	92/05/01	92/05/31
9200141	F291	BS1671	317F	1	7412	92/05/01	92/05/31
9200141	F291	BS1672	317F	1	37645	92/05/06	92/05/31
9200141	F291	BS1673	317F	1	8832	92/05/01	92/05/31
9200141	F291	BS1674	317F	1	43785	92/05/01	92/05/31
9200141	F291	BS1675	317F	1	8882	92/05/01	92/05/31
9200141	F291	BS1676	317F	1	8142	92/05/01	92/05/31
9200141	F291	BS1677	317F	1	8037	92/05/01	92/05/31
9200141	F291	BS1678	317F	1	7688	92/05/01	92/05/31
9200141	F291	BS1679	317F	1	8125	92/05/01	92/05/31
9200141	F291	BS1680	317F	1	7410	92/05/01	92/05/31
9200141	F291	BS1681	317F	1	7430	92/05/01	92/05/31
9200141	F291	BS1682	317F	1	7362	92/05/01	92/05/31
9200141	F291	BS1683	317F	1	7412	92/05/01	92/05/31
9200141	F291	BS1684	317F	1	45083	92/05/01	92/05/31
9200141	F291	BS1685	317F	1	7084	92/05/01	92/05/31
9200141	F291	BS1686	317F	1	6358	92/05/01	92/05/31
9200141	F291	BS1687	317F	1	8892	92/05/01	92/05/31
9200141	F291	BS1688	317F	1	9140	92/05/01	92/05/31
9200141	F291	BS1689	317F	1	7222	92/05/01	92/05/31
9200141	F291	BS1690	317F	1	7390	92/05/01	92/05/31
9200141	F291	BS1691	317F	1	45146	92/05/01	92/05/31
9200141	F291	BS1692	317F	1	40957	92/05/01	92/05/31
9200141	F291	BS1693	317F	1	44198	92/05/01	92/05/31
9200141	F291	BS1694	317F	1	45081	92/05/01	92/05/31
9200141	F291	BS1695	317F	1	8916	92/05/01	92/05/31
9200141	F291	BS1696	317F	1	8790	92/05/01	92/05/31
9200141	F291	BS1697	317F	1	8876	92/05/01	92/05/31
9200141	F291	BS1698	317F	1	8866	92/05/01	92/05/31
9200141	F291	BS1699	317F	1	28638	92/05/01	92/05/31
9200141	F291	BS1700	317F	1	900	92/05/01	92/05/31
9200141	F291	BS1701	317F	1	1466	92/05/01	92/05/31
9200141	F291	BS1702	317F	1	1474	92/05/01	92/05/31
9200141	F291	BS1703	317F	1	1476	92/05/01	92/05/31
9200141	F291	BS1704	317F	1	1466	92/05/01	92/05/31
9200141	F291	BS1705	317F	1	1464	92/05/01	92/05/31
9200141	F291	BS1706	317F	1	1478	92/05/01	92/05/31
9200141	F291	BS1707	317F	1	6700	92/05/01	92/05/31
9200141	F291	BS1708	317F	1	2222	92/05/01	92/05/31
9200141	F291	BS1709	317F	1	1484	92/05/01	92/05/31
9200141	F291	BS1710	317F	1	1248	92/05/01	92/05/28
9200141	F291	BS1711	317F	1	1484	92/05/01	92/05/31
9200141	F291	BS1712	317F	1	7914	92/05/01	92/05/31
9200141	F291	BS1713	317F	1	2221	92/05/01	92/05/31
9200141	F291	BS1714	317F	1	2223	92/05/01	92/05/31
9200141	F291	BS1715	317F	1	1402	92/05/01	92/05/31
9200141	F291	BS1716	317F	1	1484	92/05/01	92/05/31
9200141	F291	BS1717	317F	1	878	92/05/12	92/05/31
9200141	F291	BS1718	317F	1	2219	92/05/01	92/05/31

(107 rows affected)