

ACCESS NUMBER	REF NUMBER	FILE TYPE	PROJ CODE	INST	PLAT	CRUISE NO	CRUISE START	CRUISE END	NUM STA	NUM REC
9100186	BS0708	F291		313B	317F	32302	08/01/91	08/31/91	1	7,302
9100186	BS0709	F291		313B	317F	41001	08/01/91	08/31/91	1	8,068
9100186	BS0710	F291		313B	317F	41002	08/01/91	08/31/91	1	8,870
9100186	BS0711	F291		313B	317F	41008	08/01/91	08/31/91	1	44,780
9100186	BS0712	F291		313B	317F	41009	08/01/91	08/31/91	1	14,730
9100186	BS0713	F291		313B	317F	41010	08/01/91	08/20/91	1	9,552
9100186	BS0714	F291		313B	317F	41017	08/29/91	08/31/91	1	1,709
9100186	BS0715	F291		313B	317F	42001	08/14/91	08/31/91	1	4,552
9100186	BS0716	F291		313B	317F	42002	08/01/91	08/31/91	1	5,749
9100186	BS0717	F291		313B	317F	42003	08/01/91	08/31/91	1	8,128
9100186	BS0718	F291		313B	317F	42007	08/01/91	08/31/91	1	2,139
9100186	BS0719	F291		313B	317F	42019	08/14/91	08/31/91	1	4,110
9100186	BS0720	F291		313B	317F	42020	08/13/91	08/31/91	1	4,350
9100186	BS0721	F291		313B	317F	44004	08/01/91	08/10/91	1	841
9100186	BS0722	F291		313B	317F	44005	08/01/91	08/19/91	1	5,000
9100186	BS0723	F291		313B	317F	44007	08/01/91	08/31/91	1	7,352
9100186	BS0724	F291		313B	317F	44008	08/01/91	08/31/91	1	8,069
9100186	BS0725	F291		313B	317F	44009	08/01/91	08/31/91	1	7,362
9100186	BS0726	F291		313B	317F	44012	08/01/91	08/31/91	1	7,302
9100186	BS0727	F291		313B	317F	44013	08/01/91	08/31/91	1	7,340
9100186	BS0728	F291		313B	317F	44014	08/01/91	08/31/91	1	22,936
9100186	BS0729	F291		313B	317F	44025	08/01/91	08/31/91	1	43,436
9100186	BS0730	F291		313B	317F	44026	08/28/91	08/31/91	1	3,580
9100186	BS0731	F291		313B	317F	45001	08/01/91	08/31/91	1	1,478
9100186	BS0732	F291		313B	317F	45002	08/01/91	08/31/91	1	1,478
9100186	BS0733	F291		313B	317F	45003	08/01/91	08/31/91	1	1,480
9100186	BS0734	F291		313B	317F	45004	08/01/91	08/31/91	1	8,764
9100186	BS0735	F291		313B	317F	45005	08/01/91	08/20/91	1	27,356
9100186	BS0736	F291		313B	317F	45006	08/01/91	08/31/91	1	8,834
9100186	BS0737	F291		313B	317F	45007	08/01/91	08/31/91	1	37,791
9100186	BS0738	F291		313B	317F	45008	08/01/91	08/31/91	1	8,820
9100186	BS0739	F291		313B	317F	46001	08/01/91	08/31/91	1	8,096
9100186	BS0740	F291		313B	317F	46002	08/01/91	08/31/91	1	7,792
9100186	BS0741	F291		313B	317F	46003	08/01/91	08/31/91	1	8,050
9100186	BS0742	F291		313B	317F	46005	08/01/91	08/31/91	1	8,056
9100186	BS0743	F291		313B	317F	46011	08/01/91	08/31/91	1	8,870
9100186	BS0744	F291		313B	317F	46012	08/01/91	08/31/91	1	7,380
9100186	BS0745	F291		313B	317F	46013	08/01/91	08/31/91	1	8,824
9100186	BS0746	F291		313B	317F	46014	08/01/91	08/31/91	1	8,870
9100186	BS0747	F291		313B	317F	46022	08/01/91	08/31/91	1	7,326
9100186	BS0748	F291		313B	317F	46023	08/01/91	08/31/91	1	8,880
9100186	BS0749	F291		313B	317F	46025	08/01/91	08/31/91	1	44,961
9100186	BS0750	F291		313B	317F	46026	08/01/91	08/31/91	1	7,400
9100186	BS0751	F291		313B	317F	46027	08/01/91	08/31/91	1	7,364
9100186	BS0752	F291		313B	317F	46028	08/01/91	08/31/91	1	8,826
9100186	BS0753	F291		313B	317F	46030	08/01/91	08/31/91	1	7,256
9100186	BS0754	F291		313B	317F	46040	08/01/91	08/31/91	1	7,310
9100186	BS0755	F291		313B	317F	46041	08/01/91	08/31/91	1	7,142
9100186	BS0756	F291		313B	317F	46042	08/01/91	08/31/91	1	44,721
9100186	BS0757	F291		313B	317F	46045	08/01/91	08/31/91	1	44,839

818
708
4

9100186	BS0758	F291	313B	317F	51001	08/01/91	08/31/91	1	8,798
9100186	BS0759	F291	313B	317F	51002	08/01/91	08/31/91	1	8,572
9100186	BS0760	F291	313B	317F	51003	08/14/91	08/31/91	1	4,994
9100186	BS0761	F291	313B	317F	51004	08/01/91	08/31/91	1	8,736
9100186	BS0762	F291	313B	317F	ALSN6	08/01/91	08/31/91	1	6,904
9100186	BS0763	F291	313B	317F	BURL1	08/01/91	08/31/91	1	2,214
9100186	BS0764	F291	313B	317F	BUSL1	08/01/91	08/31/91	1	892
9100186	BS0765	F291	313B	317F	BUZM3	08/01/91	08/31/91	1	1,434
9100186	BS0766	F291	313B	317F	CARO3	08/01/91	08/31/91	1	1,474
9100186	BS0767	F291	313B	317F	CHLV2	08/01/91	08/31/91	1	7,479
9100186	BS0768	F291	313B	317F	CLKN7	08/01/91	08/31/91	1	2,100
9100186	BS0769	F291	313B	317F	CSBF1	08/01/91	08/31/91	1	2,211
9100186	BS0770	F291	313B	317F	DBLN6	08/30/91	08/31/91	1	66
9100186	BS0771	F291	313B	317F	DESW1	08/01/91	08/31/91	1	1,472
9100186	BS0772	F291	313B	317F	DISW3	08/01/91	08/31/91	1	1,480
9100186	BS0773	F291	313B	317F	DPIA1	08/01/91	08/31/91	1	1,478
9100186	BS0774	F291	313B	317F	DSLN7	08/01/91	08/31/91	1	7,285
9100186	BS0775	F291	313B	317F	FBIS1	08/01/91	08/31/91	1	1,546
9100186	BS0776	F291	313B	317F	FFIA2	08/01/91	08/31/91	1	1,476
9100186	BS0777	F291	313B	317F	FPSN7	08/01/91	08/31/91	1	2,201
9100186	BS0778	F291	313B	317F	FWYF1	08/01/91	08/31/91	1	2,211
9100186	BS0779	F291	313B	317F	GBCL1	08/01/91	08/31/91	1	7,781
9100186	BS0780	F291	313B	317F	GDIL1	08/01/91	08/31/91	1	2,207
9100186	BS0781	F291	313B	317F	GLLN6	08/01/91	08/31/91	1	1,474
9100186	BS0782	F291	313B	317F	IOSN3	08/01/91	08/31/91	1	1,484
9100186	BS0783	F291	313B	317F	LKWF1	08/01/91	08/31/91	1	2,214
9100186	BS0784	F291	313B	317F	LNEL1	08/01/91	08/31/91	1	1,386
9100186	BS0785	F291	313B	317F	MDRM1	08/01/91	08/31/91	1	1,480
9100186	BS0786	F291	313B	317F	MISM1	08/01/91	08/31/91	1	1,376
9100186	BS0787	F291	313B	317F	MLRF1	08/01/91	08/31/91	1	1,946
9100186	BS0788	F291	313B	317F	MPCL1	08/01/91	08/31/91	1	6,783
9100186	BS0789	F291	313B	317F	NWPO3	08/01/91	08/31/91	1	1,476
9100186	BS0790	F291	313B	317F	ORKP2	08/01/91	08/31/91	1	1,460
9100186	BS0791	F291	313B	317F	PTAC1	08/01/91	08/31/91	1	1,474
9100186	BS0792	F291	313B	317F	PTAT2	08/08/91	08/31/91	1	1,663
9100186	BS0793	F291	313B	317F	PTGC1	08/01/91	08/31/91	1	1,394
9100186	BS0794	F291	313B	317F	ROAM4	08/01/91	08/31/91	1	1,472
9100186	BS0795	F291	313B	317F	SANF1	08/01/91	08/31/91	1	2,181
9100186	BS0796	F291	313B	317F	SAUF1	08/01/91	08/31/91	1	2,219
9100186	BS0797	F291	313B	317F	SBIO1	08/01/91	08/31/91	1	1,466
9100186	BS0798	F291	313B	317F	SGNW3	08/01/91	08/31/91	1	1,476
9100186	BS0799	F291	313B	317F	SISW1	08/01/91	08/31/91	1	1,478
9100186	BS0800	F291	313B	317F	SPGF1	08/01/91	08/31/91	1	2,214
9100186	BS0801	F291	313B	317F	SRST2	08/01/91	08/31/91	1	2,164
9100186	BS0802	F291	313B	317F	STDMA	08/01/91	08/31/91	1	1,478
9100186	BS0803	F291	313B	317F	SVLS1	08/28/91	08/31/91	1	633
9100186	BS0804	F291	313B	317F	TPLM2	08/01/91	08/31/91	1	2,219
9100186	BS0805	F291	313B	317F	TTIW1	08/01/91	08/31/91	1	1,480
9100186	BS0806	F291	313B	317F	VENF1	08/10/91	08/28/91	1	1,239
9100186	BS0807	F291	313B	317F	WPOW1	08/01/91	08/31/91	1	1,478
9100186	BS0808	F291	313B	317F	91222	08/01/91	08/31/91	1	1,142
9100186	BS0809	F291	313B	317F	91251	08/01/91	08/31/91	1	1,446
9100186	BS0810	F291	313B	317F	KOSP2	08/01/91	08/31/91	1	1,454
9100186	BS0811	F291	313B	317F	91365	08/01/91	08/31/91	1	1,466
9100186	BS0812	F291	313B	317F	91377	08/01/91	08/31/91	1	1,513

60-4636
 User Name: S. J. Hauling | ID #: 673-5431 | Org/Task: CEP/2009/3/1/9 | Submit Date: 10/07/91 | Job ID: ASA

PART A

Request/Problem Category

- General Info
- Software
- Other Specify:
- Communications
- Tape Library
- Equipment
- Computer Operations
- Supplies

Request/Problem Description:

Please scan tape AΦ 1490

PART B (For Operator Job Requests)

Operator Job Request Type

- Run BRBUOY procedure Name: _____ See attached list
- Run SELBUOY procedure Name: _____ See attached list
- Run BUOYSUM procedure Name: _____ See attached list
- Run OTHER procedure - see SPECIAL INSTRUCTIONS
- Tape Scan
- Tape to Tape Copy Scan OUTPUT tape? yes no
- Disk to Tape Copy Scan OUTPUT tape? yes no
- Tape to Disk Copy
- Print 80 column 132 column HEX OCTAL Character
- All files/records? yes no. see SPECIAL INSTRUCTIONS
- Restore VAX file Name: _____
- OTHER - see SPECIAL INSTRUCTIONS

Special Operator Instructions:

Please return tape AΦ 1490 to Bin 09

JOB INPUT

Id#/Filename: AΦ 1490

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: _____

(JCS Use Only) 91100801
 JOB Number:
 Completed By: 98

Date/Time Start: 10-8-91/08:20
 Date/Time Completed: 10-8-91/08



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

September 30, 1991 F1804-02
DB3:91-0532
SPN:ldm

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

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

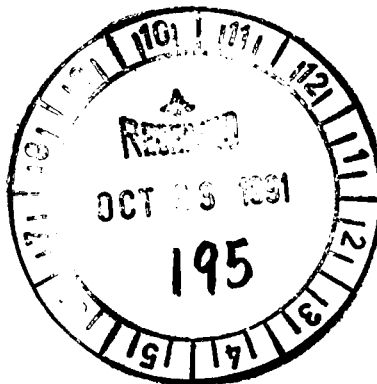
Sincerely,

Eric G. Meindl

for S. P. Nolan
ADP Manager

Acc # 9100186

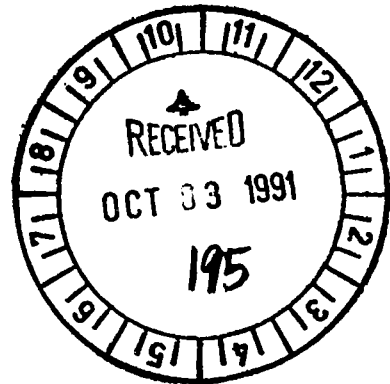
Aφ1490



AUGUST 1991

32302 08/01/91/00 08/31/91/23
41001 08/01/91/00 08/31/91/23
41002 08/01/91/00 08/31/91/23
41008 08/01/91/00 08/31/91/23
41009 08/01/91/00 08/31/91/23
41010 08/01/91/00 08/20/91/23
41017 08/29/91/14 08/31/91/23
42001 08/14/91/14 08/31/91/23
42002 08/01/91/00 08/31/91/23
42003 08/01/91/00 08/31/91/23
42007 08/01/91/00 08/31/91/23
42019 08/14/91/15 08/31/91/23
42020 08/13/91/15 08/31/91/23
44004 08/01/91/00 08/10/91/18
44005 08/01/91/00 08/19/91/23
44007 08/01/91/00 08/31/91/23
44008 08/01/91/00 08/31/91/23
44009 08/01/91/00 08/31/91/23
44012 08/01/91/00 08/31/91/23
44013 08/01/91/00 08/31/91/23
44014 08/01/91/00 08/31/91/23
44025 08/01/91/00 08/31/91/23
44026 08/28/91/17 08/31/91/23
45001 08/01/91/00 08/31/91/23
45002 08/01/91/00 08/31/91/23
45003 08/01/91/00 08/31/91/23
45004 08/01/91/00 08/31/91/23
45005 08/01/91/00 08/20/91/11
45006 08/01/91/00 08/31/91/23
45007 08/01/91/00 08/31/91/23
45008 08/01/91/00 08/31/91/23
46001 08/01/91/00 08/31/91/23
46002 08/01/91/00 08/31/91/23
46003 08/01/91/00 08/31/91/23
46005 08/01/91/00 08/31/91/23
46011 08/01/91/00 08/31/91/23
46012 08/01/91/00 08/31/91/23
46013 08/01/91/00 08/31/91/23
46014 08/01/91/00 08/31/91/23
46022 08/01/91/00 08/31/91/23
46023 08/01/91/00 08/31/91/23
46025 08/01/91/00 08/31/91/23
46026 08/01/91/00 08/31/91/23
46027 08/01/91/00 08/31/91/23
46028 08/01/91/00 08/31/91/23
46030 08/01/91/00 08/31/91/23
46040 08/01/91/00 08/31/91/23
46041 08/01/91/00 08/31/91/23
46042 08/01/91/00 08/31/91/23
46045 08/01/91/00 08/31/91/23
51001 08/01/91/00 08/31/91/23
51002 08/01/91/00 08/31/91/23
51003 08/14/91/01 08/31/91/23
51004 08/01/91/00 08/31/91/23
ALSN6 08/01/91/00 08/31/91/23
BURL1 08/01/91/00 08/31/91/23
BUSL1 08/01/91/00 08/31/91/23
BUZM3 08/01/91/00 08/31/91/23
CARO3 08/01/91/00 08/31/91/23
CHLV2 08/01/91/00 08/31/91/23
CLKN7 08/01/91/00 08/31/91/23

9100186



CSBF1 08/01/91/00 08/31/91/23
DBLN6 08/30/91/15 08/31/91/23
DESW1 08/01/91/00 08/31/91/23
DISW3 08/01/91/00 08/31/91/23
DPJA1 08/01/91/00 08/31/91/23
DSLN7 08/01/91/00 08/31/91/23
FBIS1 08/01/91/00 08/31/91/23
FFIA2 08/01/91/00 08/31/91/23
FPSN7 08/01/91/00 08/31/91/23
FWYF1 08/01/91/00 08/31/91/23
GBCL1 08/01/91/00 08/31/91/23
GDIL1 08/01/91/00 08/31/91/23
GLLN6 08/01/91/00 08/31/91/23
IOSN3 08/01/91/00 08/31/91/23
LKWF1 08/01/91/00 08/31/91/23
LNEL1 08/01/91/00 08/31/91/23
MDRM1 08/01/91/00 08/31/91/23
MISM1 08/01/91/00 08/31/91/23
MLRF1 08/01/91/00 08/31/91/23
MPCL1 08/01/91/00 08/31/91/23
NWFO3 08/01/91/00 08/31/91/23
ORKP2 08/01/91/00 08/31/91/23
PTAC1 08/01/91/00 08/31/91/23
PTAT2 08/08/91/17 08/31/91/23
PTGC1 08/01/91/00 08/31/91/23
ROAM4 08/01/91/00 08/31/91/23
SANF1 08/01/91/00 08/31/91/23
SAUF1 08/01/91/00 08/31/91/23
SBI01 08/01/91/00 08/31/91/23
SGNW3 08/01/91/00 08/31/91/23
SISW1 08/01/91/00 08/31/91/23
SPGF1 08/01/91/00 08/31/91/23
SRST2 08/01/91/00 08/31/91/23
STDM4 08/01/91/00 08/31/91/23
SVLS1 08/28/91/21 08/31/91/23
TFLM2 08/01/91/00 08/31/91/23
TTIW1 08/01/91/00 08/31/91/23
VENF1 08/10/91/18 08/28/91/21
WPOW1 08/01/91/00 08/31/91/23
91222 08/01/91/00 08/31/91/23
91251 08/01/91/00 08/31/91/23
91356 08/01/91/00 08/31/91/23
91365 08/01/91/00 08/31/91/23
91377 08/01/91/00 08/31/91/23

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C. DATA FORMAT

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

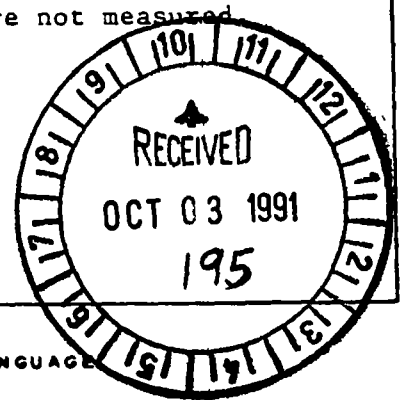
**1. LIST RECORD TYPES CONTAINED IN THE TRANSMITTAL OF YOUR FILE
GIVE METHOD OF IDENTIFYING EACH RECORD TYPE**

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.

9100186



3. ATTRIBUTES AS EXPRESSED IN PL-I 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 <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 <input checked="" type="checkbox"/> OCTAL 17 <input type="checkbox"/> _____</p>
<p>7. PARITY</p> <p><input checked="" type="checkbox"/> ODD</p> <p><input type="checkbox"/> EVEN</p>	<p>11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME LAY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER)</p>
<p>8. DENSITY</p> <p><input type="checkbox"/> 200 BPI <input type="checkbox"/> 1600 BPI</p> <p><input type="checkbox"/> 556 BPI</p> <p><input type="checkbox"/> 800 BPI</p> <p><input checked="" type="checkbox"/> 6250 BPI</p>	<p>12. PHYSICAL BLOCK LENGTH IN BYTES</p> <p 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 <small>(e.g., bits, bytes)</small>	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
DESCRIPTIVE HEADER RECORD (RECORD A)					
FILE TYPE	1	3			"291" (constant)
FILE DATE	4	6			YYMMDD of file generation
RECORD TYPE	10	1			Always 'A'
STATION	11	6			Six-character unique name of observation point
OBSERVED DATE	17	6			YYMMDD (UTC)
OBSERVED TIME	23	4			HHMM (UTC)
LATITUDE	27	7			DDMMSS plus hemisphere 'N' or 'S'
LONGITUDE	34	8			DDMMSS plus hemisphere 'E' or 'W'
BOTTOM DEPTH	42	5			XXXXX - Meters to tenths
MAGNETIC VARIATION	47	4			XXXX - Whole degrees from true North (signed value)
BUOY HEADING	51	3			XXX - Whole degrees from true North
SAMPLING RATE (WAVES)	54	4			XXXX - Original measurements per minute to tenths
SAMPLING DURATION (WAVES)	58	4			XXXX - Minutes to hundredths
TOTAL INTERVALS (WAVES)	62	3			XXX - Number of frequency intervals
CHIEF SCIENTIST	65	20			20-Character field for scientist name
INSTITUTION	85	20			20-Character field for data source
WIND SAMPLING DURATION	105	3			XXX - Minutes to tenths
PRESENCE OF RECORD 'B'	108	1			X - Y=YES; N=NO
PRESENCE OF RECORD 'C'	109	1			X - Y=YES; N=NO
PRESENCE OF RECORD 'D'	110	1			X - Y=YES; N=NO
PRESENCE OF RECORD 'E'	111	1			X - Y=YES; N=NO
PRESENCE OF RECORD 'F'	112	1			X - Y=YES; N=NO
PRESENCE OF RECORD 'G'	113	1			X - Y=YES; N=NO
PRESENCE OF RECORD 'H'	114	1			X - Y=YES; N=NO
PRESENCE OF RECORD 'I'	115	1			X - Y=YES; N=NO
PRESENCE OF RECORD 'J'	16	1			X - Y=YES; N=NO
BLANKS	117	4			

RECORD FORMAT DESCRIPTION

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

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

RECORD FORMAT DESCRIPTION

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

14. FIELD NAME	15. POSITION FROM -1 MEASURED IN <small>(e.g., bits, bytes)</small>	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
ENVIRONMENTAL DATA RECORD (RECORD B) (Continued)					
CONDUCTIVITY (SEA SURFACE)	89	5			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.					
NONDIRECTIONAL WAVE SPECTRA DATA RECORD (RECORD C)					
FILE TYPE	1	3			"291" (constant)
FILE DATE	4	6			YYMMDD of file generation
RECORD TYPE	10	1			Always 'C'
STATION	11	6			Six characters unique name of observation point
OBSERVED DATE	17	6			YYMMDD (UTC)
OBSERVED TIME	23	4			HHMM (UTC)
BLANKS COUNT	27	7			
	34	1			X - Number of frequencies on this record
DATA					Up to 5 frequency, resolution, and density fields. Null fields are zero or blank
FREQUENCY	35	4			XXXX - Center frequency of interval in Hertz to thousandths
RESOLUTION	39	4			XXXX - Interval width in Hertz to ten-thousandths
DENSITY	43	6			XXXXXX - Spectral Density of interval in m ² /Hz to thousandths
FREQUENCY	49	4			XXXX - See above
RESOLUTION	53	4			XXXX - See above

RECORD FORMAT DESCRIPTION

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

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

RECORD FORMAT DESCRIPTION

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

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN <small>(e.g., bits, bytes)</small>	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
SUBSURFACE CURRENT DATA RECORD (RECORD E) (Continued)					
STATION	11	6			Six characters unique name of observation point
OBSERVED DATE	17	6			YYMMDD (UTC)
OBSERVED TIME	23	4			HHMM (UTC)
DEPTH	27	4			XXXX - From the surface in meters
PRESSURE	31	5			XXXXX - Hydrostatic pressure (kg/cm ²) to hundredths
U COMPONENT	36	5			XXXXX - East component from true North (cm/sec) to tenths. Minus sign indicates westward component
V COMPONENT	41	5			XXXXX - True North component in cm/sec to tenths, minus sign indicates southward component
W COMPONENT	46	3			XXX - Vertical component in cm/sec to tenths. Minus sign indicates downward component
DEPTH	49,71,93	4			Repeated in descending order
PRESSURE	53,75,97	5			Repeated in descending order
U COMPONENT	58,80,102	5			Repeated in descending order
V COMPONENT	63,85,107	5			Repeated in descending order
W COMPONENT	68,90,112	3			Repeated in descending order
BIN WIDTH	115	2			XX - Width of each depth bin whole meters
SAMPLING INTERVAL	117	3			XXX - Minutes to tenths
BLANK	120	1			
SUBSURFACE DATA PROFILE (RECORD F)					
FILE TYPE	1	3			Always "291"
FILE DATE	4	6			YYMMDD of file generation
RECORD TYPE	10	1			Always 'F'
STATION	11	6			Six characters unique name of observation point
OBSERVED DATE	17	6			YYMMDD (UTC)
OBSERVED TIME	23	4			HHMM (UTC)
DEPTH	27	4			XXXX - From the surface in meters. Negative value indicates height in meters <u>above</u> water surface

RECORD FORMAT DESCRIPTION

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

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
SUBSURFACE DATA PROFILE (RECORD F) (Continued)					
PHOTOSYNTHETIC ACTIVE RADIATION (PAR)	31	4			XXXX - Micromol/sec/m ²
BLANKS	35	15			15 Blanks reserved for future parameters
DEPTH	50,73,96	4			Repeated in descending order.
PAR	54,77,100	4			Repeated in descending order
BLANKS	58,81,104	15			Repeated in descending order
BLANKS	119	2			
CO AND QUAD SPECTRA FOR DIRECTIONAL WAVES DATA RECORD (RECORD G)					
FILE TYPE	1	3			Always "291"
FILE DATE	4	6			YYMMDD of file generation
RECORD TYPE	10	1			Always 'G'
STATION	11	6			Six characters unique name of observation point
OBSERVED DATE	17	6			YYMMDD (UTC)
OBSERVED TIME	23	4			HHMM (UTC)
FREQUENCY	27	4			XXXX - Center frequency of interval in Hz to thousandths
RESOLUTION	31	5			XXXXX - Spectral resolution of this frequency band to Hz to ten-thousandths
CO-SPECTRA (C11)	36	6			XXXXXX - Uncorrected values of CO and QUAD spectra in m ² /Hz. Decimal assumed to be left of first digit. Subscripts are: 1=Heave, 2=E-W slope, 3=N-S slope
EXPONENT*	42	2			XX - First space is the sign
CO-SPECTRA (C22)	44	6			XXXXXX - See above
EXPONENT*	50	2			XX
CO-SPECTRA (C33)	52	6			XXXXXX - See above
EXPONENT*	58	2			XX
CO-SPECTRA (C12)	60	6			XXXXXX - See above
EXPONENT*	66	2			XX
QUAD-SPECTRA (Q12)	68	6			XXXXXX - See above
EXPONENT*	74	2			XX
CO-SPECTRA (C13)	76	6			XXXXXX - See above
EXPONENT*	82	2			XX
QUAD-SPECTRA (Q13)	84	6			XXXXXX - See above
EXPONENT*	90	2			XX
CO-SPECTRA (C23)	92	6			XXXXXX - See above
EXPONENT*	98	2			XX

RECORD FORMAT DESCRIPTION

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

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN <small>(e.g., dbts, bytes)</small>	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
CO AND QUAD SPECTRA FOR DIRECTIONAL WAVES DATA RECORD (RECORD G) (Continued)					
QUAD-SPECTRA (Q23)	100	6			XXXXXX - See above
EXPONENT*	106	2			XX
SPECTRA (C22-C33)	108	6			XXXXXX - See above
EXPONENT*	114	2			XX
BLANKS	116	5			
* If this exponent is less than -9 the exponent and its associated spectra will be zero.					
DIRECTIONAL WAVE FOURIER COEFFICIENT DATA RECORD (RECORD H)					
FILE TYPE	1	3			Always "291"
FILE DATE	4	6			YYMMDD of file generation
RECORD TYPE	10	1			Always 'H'
STATION	11	6			Six characters unique name of observation point
OBSERVED DATE	17	6			YYMMDD (UTC)
OBSERVED TIME	23	4			HHMM (UTC)
FREQUENCY	27	4			XXXX - Hz to thousandths
RESOLUTION	31	5			XXXXX - Hz to ten-thousandths
ANGULAR FOURIER COEFF (a ₀)	36	6			XXXXXX - m ² /Hz
EXPONENT	42	2			XX
ANGULAR FOURIER COEFF (a ₁)	44	6			XXXXXX - m ² /Hz
EXPONENT	50	2			XX
ANGULAR FOURIER COEFF (b ₁)	52	6			XXXXXX - m ² /Hz
EXPONENT	58	2			XX
ANGULAR FOURIER COEFF (a ₂)	60	6			XXXXXX - m ² /Hz
EXPONENT	66	2			XX
ANGULAR FOURIER COEFF (b ₂)	68	6			XXXXXX - m ² /Hz
EXPONENT	74	2			XX
ANGULAR FOURIER COEFF (a ₃)	76	6			XXXXXX - m ² /Hz
EXPONENT	82	2			XX
ANGULAR FOURIER COEFF (b ₃)	84	6			XXXXXX - m ² /Hz
EXPONENT	90	2			XX
ANGULAR FOURIER COEFF (a ₄)	92	6			XXXXXX - m ² /Hz
EXPONENT	98	2			XX
ANGULAR FOURIER COEFF (b ₄)	100	6			XXXXXX - m ² /Hz
EXPONENT	106	2			XX

RECORD FORMAT DESCRIPTION

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

14. FIELD NAME	15. POSITION FROM -1 MEASURED IN <small>(e.g., bits, bytes)</small>	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
DIRECTIONAL WAVE FOURIER COEFFICIENT DATA RECORD (RECORD H) (Continued)					
MEAN WAVE DIRECTION	108	3			XXX - ARCTAN b_1/a_1 in whole degrees from true North
BLANKS	111	10			
DIRECTIONAL WAVE PARAMETER DATA RECORD (RECORD I)					
FILE TYPE	1	3			Always "291"
FILE DATE	4	6			YYMMDD of file generation
RECORD TYPE	10	1			Always 'I'
STATION	11	6			Six characters unique name of observation point
OBSERVED DATE	17	6			YYMMDD (UTC)
OBSERVED TIME	23	4			HHMM (UTC)
COUNT	27	1			X - Number of frequencies on this record (1 to 3)
FREQUENCY	28	4			XXXX - Center of frequency interval in Hz to the ten-thousandth
RESOLUTION	32	4			XXXX - Resolution of interval in Hz to the ten-thousandth
R1	36	4			XXXX - Nondimensional. Given to nearest hundredth.
R2	40	4			XXXX - Nondimensional. Given to nearest hundredth.
WAVE DIRECTION - ALPHA1	44	4			XXXX - Direction in degrees to the tenth.
WAVE DIRECTION - ALPHA2	48	4			XXXX - Direction in degrees to the tenth.
WAVE ESTIMATE C11	52	6			XXXXXX - Spectral value in m^2/Hz to the thousandth
FREQUENCY	58	4			XXXX - Center of frequency interval in Hz to the ten-thousandth
RESOLUTION	62	4			XXXX - Resolution of interval in Hz to the ten-thousandth
R1	66	4			XXXX - Nondimensional. Given to nearest hundredth.
R2	70	4			XXXX - Nondimensional. Given to nearest hundredth.
WAVE DIRECTION - ALPHA1	74	4			XXXX - Direction in degrees to the tenth.
WAVE DIRECTION - ALPHA2	78	4			XXXX - Direction in degrees to the tenth.
WAVE C11 ESTIMATE	82	6			XXXXXX - Spectral value in m^2/Hz to the thousandth
FREQUENCY	88	4			XXXX - Center of frequency interval in Hz to the ten-thousandth

RECORD FORMAT DESCRIPTION

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

14. FIELD NAME	15. POSITION FROM -1 MEASURED IN <small>(0-6, bits, bytes)</small>	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
DIRECTIONAL WAVE PARAMETER DATA RECORDS (RECORD I) (Continued)					
RESOLUTION	92	4			XXXX - Resolution of interval in Hz to the ten-thousandth
R1	96	4			XXXX - Nondimensional. Given to nearest hundredth.
R2	100	4			XXXX - Nondimensional. Given to nearest hundredth.
WAVE DIRECTION - ALPHA1	104	4			XXXX - Direction in degrees to the tenth.
WAVE DIRECTION - ALPHA2	108	4			XXXX - Direction in degrees to the tenth.
WAVE C11 ESTIMATE	112	6			XXXXXX - Spectral value in m ² /Hz to the thousandth
BLANKS	118	3			
<p>NOTE: DIRECTIONAL WAVE SPECTRUM = C11(f)*D(f,A), f=frequency (Hz), A=Azimuth angle measured clockwise from North to the direction wave is from. $D(f,A) = (1/\pi) * (0.5 + R1 * \cos(A - \text{ALPHA1}) + R2 * \cos(2 * (A - \text{ALPHA2})))$, 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 $R1 = (\text{SQRT}(a_1 * a_1 + b_1 * b_1)) / a_0$, $R2 = (\text{SQRT}(a_2 * a_2 + b_2 * b_2)) / a_0$, $\text{ALPHA1} = \text{ARCTAN}(b_1, a_1)$, $\text{ALPHA2} = 0.5 * \text{ARCTAN}(b_2, a_2) + 0.$ 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	13. POSITION FROM - 1 MEASURED IN <small>(e.g., bits, bytes)</small>	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
CONTINUOUS WIND MEASUREMENT (RECORD J) (Continued)					
FIRST AVERAGE SPEED	50	3			XXX - m/sec to tenths
SECOND AVERAGE DIRECTION	53	3			XXX - Whole degrees
SECOND AVERAGE SPEED	56	3			XXX - m/sec to tenths
THIRD AVERAGE DIRECTION	59	3			XXX - Whole degrees
THIRD AVERAGE SPEED	62	3			XXX - m/sec to tenths
FOURTH AVERAGE DIRECTION	65	3			XXX - Whole degrees
FOURTH AVERAGE SPEED	68	3			XXX - m/sec to tenths
FIFTH AVERAGE DIRECTION	71	3			XXX - Whole degrees
FIFTH AVERAGE SPEED	74	3			XXX - m/sec to tenths
SIXTH AVERAGE DIRECTION	77	3			XXX - Whole degrees
SIXTH AVERAGE SPEED	80	3			XXX - m/sec to tenths
BLANKS	83	38			
<p>Ten minute average winds are measured for minutes 0-9, 10-19, 20-29, 30-39, 40-49, and 50-59. The first set is for the ten minute time period ending immediately before the end of acquisition time. The remaining sets go back in time. For example, if the end of acquisition time is 1025, then the first average is 1010 to 1019, the second, 1000 to 1009, etc. If the end of acquisition time is 1030, then the first period will be 1020 to 1029.</p>					

Passwörd:

accNo	fleA	refNo	proj	inst	ship	startDate	cruise	catId
9100186	F291	BS0708	9999	313B	317F	1991/08/01	32302	201911
9100186	F291	BS0709	9999	313B	317F	1991/08/01	41001	201912
9100186	F291	BS0710	9999	313B	317F	1991/08/01	41002	201913
9100186	F291	BS0711	9999	313B	317F	1991/08/01	41008	201914
9100186	F291	BS0712	9999	313B	317F	1991/08/01	41009	201915
9100186	F291	BS0713	9999	313B	317F	1991/08/01	41010	201916
9100186	F291	BS0714	9999	313B	317F	1991/08/29	41017	201917
9100186	F291	BS0715	9999	313B	317F	1991/08/14	42001	201918
9100186	F291	BS0716	9999	313B	317F	1991/08/01	42002	201919
9100186	F291	BS0717	9999	313B	317F	1991/08/01	42003	201920
9100186	F291	BS0718	9999	313B	317F	1991/08/01	42007	201921
9100186	F291	BS0719	9999	313B	317F	1991/08/14	42019	201922
9100186	F291	BS0720	9999	313B	317F	1991/08/13	42020	201923
9100186	F291	BS0721	9999	313B	317F	1991/08/01	44004	201924
9100186	F291	BS0722	9999	313B	317F	1991/08/01	44005	201925
9100186	F291	BS0723	9999	313B	317F	1991/08/01	44007	201926
9100186	F291	BS0724	9999	313B	317F	1991/08/01	44008	201927
9100186	F291	BS0725	9999	313B	317F	1991/08/01	44009	201928
9100186	F291	BS0726	9999	313B	317F	1991/08/01	44012	201929
9100186	F291	BS0727	9999	313B	317F	1991/08/01	44013	201930
9100186	F291	BS0728	9999	313B	317F	1991/08/01	44014	201931
9100186	F291	BS0729	9999	313B	317F	1991/08/01	44025	201932
9100186	F291	BS0730	9999	313B	317F	1991/08/28	44026	201933
9100186	F291	BS0731	9999	313B	317F	1991/08/01	45001	201934
9100186	F291	BS0732	9999	313B	317F	1991/08/01	45002	201935
9100186	F291	BS0733	9999	313B	317F	1991/08/01	45003	201936
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