

ACCESS NUMBER	REF NUMBER	FILE TYPE	PROJ CODE	INST	PLAT	CRUISE NO	CRUISE START	CRUISE END	NUM STA	NUM REC
9100205	BS0813	F291		313B	317F	32302	09/01/91	09/30/91	1	7,070
9100205	BS0814	F291		313B	317F	41001	09/01/91	09/21/91	1	5,392
9100205	BS0815	F291		313B	317F	41002	09/01/91	09/30/91	1	8,628
9100205	BS0816	F291		313B	317F	41008	09/01/91	09/30/91	1	43,741
9100205	BS0817	F291		313B	317F	41009	09/01/91	09/30/91	1	14,352
9100205	BS0818	F291		313B	317F	41010	09/06/91	09/30/91	1	11,730
9100205	BS0819	F291		313B	317F	41017	09/01/91	09/30/91	1	42,781
9100205	BS0820	F291		313B	317F	42001	09/01/91	09/30/91	1	7,892
9100205	BS0821	F291		313B	317F	42002	09/01/91	09/30/91	1	7,898
9100205	BS0822	F291		313B	317F	42003	09/01/91	09/30/91	1	7,879
9100205	BS0823	F291		313B	317F	42007	09/01/91	09/30/91	1	1,891
9100205	BS0824	F291		313B	317F	42019	09/01/91	09/30/91	1	7,140
9100205	BS0825	F291		313B	317F	42020	09/01/91	09/30/91	1	7,190
9100205	BS0826	F291		313B	317F	42025	09/12/91	09/30/91	1	4,450
9100205	BS0827	F291		313B	317F	44007	09/01/91	09/30/91	1	7,184
9100205	BS0828	F291		313B	317F	44008	09/01/91	09/30/91	1	7,756
9100205	BS0829	F291		313B	317F	44009	09/01/91	09/30/91	1	7,104
9100205	BS0830	F291		313B	317F	44011	09/05/91	09/30/91	1	6,669
9100205	BS0831	F291		313B	317F	44012	09/01/91	09/30/91	1	7,182
9100205	BS0832	F291		313B	317F	44013	09/01/91	09/30/91	1	7,106
9100205	BS0833	F291		313B	317F	44014	09/01/91	09/30/91	1	42,307
9100205	BS0834	F291		313B	317F	44025	09/01/91	09/30/91	1	43,015
9100205	BS0835	F291		313B	317F	44026	09/01/91	09/30/91	1	43,088
9100205	BS0836	F291		313B	317F	45001	09/01/91	09/30/91	1	7,190
9100205	BS0837	F291		313B	317F	45002	09/01/91	09/30/91	1	1,440
9100205	BS0838	F291		313B	317F	45003	09/01/91	09/30/91	1	7,180
9100205	BS0839	F291		313B	317F	45004	09/01/91	09/30/91	1	8,534
9100205	BS0840	F291		313B	317F	45006	09/01/91	09/30/91	1	8,596
9100205	BS0841	F291		313B	317F	45007	09/01/91	09/30/91	1	43,322
9100205	BS0842	F291		313B	317F	45008	09/01/91	09/30/91	1	8,628
9100205	BS0843	F291		313B	317F	46001	09/01/91	09/30/91	1	7,920
9100205	BS0844	F291		313B	317F	46002	09/01/91	09/30/91	1	7,700
9100205	BS0845	F291		313B	317F	46003	09/01/91	09/30/91	1	7,899
9100205	BS0846	F291		313B	317F	46005	09/01/91	09/30/91	1	7,867
9100205	BS0847	F291		313B	317F	46011	09/01/91	09/30/91	1	8,640
9100205	BS0848	F291		313B	317F	46012	09/01/91	09/30/91	1	7,184
9100205	BS0849	F291		313B	317F	46013	09/01/91	09/30/91	1	8,628
9100205	BS0850	F291		313B	317F	46014	09/01/91	09/30/91	1	8,628
9100205	BS0851	F291		313B	317F	46022	09/01/91	09/30/91	1	7,174
9100205	BS0852	F291		313B	317F	46023	09/01/91	09/30/91	1	7,758
9100205	BS0853	F291		313B	317F	46025	09/01/91	09/30/91	1	43,678
9100205	BS0854	F291		313B	317F	46026	09/01/91	09/30/91	1	7,200
9100205	BS0855	F291		313B	317F	46027	09/01/91	09/30/91	1	7,154
9100205	BS0856	F291		313B	317F	46028	09/01/91	09/30/91	1	8,630
9100205	BS0857	F291		313B	317F	46030	09/01/91	09/30/91	1	7,100
9100205	BS0858	F291		313B	317F	46035	09/28/91	09/30/91	1	722
9100205	BS0859	F291		313B	317F	46040	09/01/91	09/30/91	1	7,154
9100205	BS0860	F291		313B	317F	46041	09/01/91	09/30/91	1	7,096
9100205	BS0861	F291		313B	317F	46042	09/01/91	09/30/91	1	43,383
9100205	BS0862	F291		313B	317F	46045	09/01/91	09/30/91	1	43,619

9100205	BS0863	F291	313B	317F	51001	09/01/91	09/30/91	1	8,590
9100205	BS0864	F291	313B	317F	51002	09/01/91	09/30/91	1	8,380
9100205	BS0865	F291	313B	317F	51003	09/01/91	09/30/91	1	8,568
9100205	BS0866	F291	313B	317F	51004	09/01/91	09/30/91	1	8,476
9100205	BS0867	F291	313B	317F	ALSN6	09/01/91	09/30/91	1	6,474
9100205	BS0868	F291	313B	317F	BURL1	09/01/91	09/30/91	1	2,150
9100205	BS0869	F291	313B	317F	BUSL1	09/11/91	09/30/91	1	834
9100205	BS0870	F291	313B	317F	BUZM3	09/01/91	09/30/91	1	1,436
9100205	BS0871	F291	313B	317F	CARO3	09/01/91	09/30/91	1	1,436
9100205	BS0872	F291	313B	317F	CHLV2	09/01/91	09/30/91	1	7,793
9100205	BS0873	F291	313B	317F	CLKN7	09/01/91	09/30/91	1	2,081
9100205	BS0874	F291	313B	317F	CSBF1	09/01/91	09/30/91	1	2,151
9100205	BS0875	F291	313B	317F	DBLN6	09/01/91	09/30/91	1	1,438
9100205	BS0876	F291	313B	317F	DESW1	09/01/91	09/30/91	1	1,430
9100205	BS0877	F291	313B	317F	DISW3	09/01/91	09/30/91	1	1,432
9100205	BS0878	F291	313B	317F	DPIA1	09/01/91	09/30/91	1	1,432
9100205	BS0879	F291	313B	317F	DSLN7	09/01/91	09/30/91	1	7,453
9100205	BS0880	F291	313B	317F	FBIS1	09/01/91	09/30/91	1	2,160
9100205	BS0881	F291	313B	317F	FFIA2	09/01/91	09/30/91	1	1,438
9100205	BS0882	F291	313B	317F	FPSN7	09/01/91	09/30/91	1	2,156
9100205	BS0883	F291	313B	317F	FWYF1	09/01/91	09/30/91	1	2,148
9100205	BS0884	F291	313B	317F	GBCL1	09/01/91	09/30/91	1	7,384
9100205	BS0885	F291	313B	317F	GDIL1	09/01/91	09/30/91	1	2,152
9100205	BS0886	F291	313B	317F	GLLN6	09/01/91	09/30/91	1	1,438
9100205	BS0887	F291	313B	317F	IOSN3	09/01/91	09/30/91	1	1,434
9100205	BS0888	F291	313B	317F	LKWF1	09/01/91	09/30/91	1	2,157
9100205	BS0889	F291	313B	317F	LNEL1	09/01/91	09/30/91	1	1,402
9100205	BS0890	F291	313B	317F	MDRM1	09/01/91	09/30/91	1	1,438
9100205	BS0891	F291	313B	317F	MISM1	09/01/91	09/30/91	1	1,328
9100205	BS0892	F291	313B	317F	MLRF1	09/01/91	09/30/91	1	2,157
9100205	BS0893	F291	313B	317F	MPCL1	09/01/91	09/30/91	1	7,246
9100205	BS0894	F291	313B	317F	NWPO3	09/01/91	09/30/91	1	1,438
9100205	BS0895	F291	313B	317F	ORKP2	09/01/91	09/30/91	1	1,428
9100205	BS0896	F291	313B	317F	PILM4	09/05/91	09/30/91	1	1,206
9100205	BS0897	F291	313B	317F	PTAC1	09/01/91	09/30/91	1	1,436
9100205	BS0898	F291	313B	317F	PTAT2	09/01/91	09/30/91	1	2,157
9100205	BS0899	F291	313B	317F	PTGC1	09/01/91	09/30/91	1	1,328
9100205	BS0900	F291	313B	317F	ROAM4	09/01/91	09/30/91	1	1,438
9100205	BS0901	F291	313B	317F	SANF1	09/01/91	09/25/91	1	1,704
9100205	BS0902	F291	313B	317F	SAUF1	09/01/91	09/30/91	1	2,154
9100205	BS0903	F291	313B	317F	SBIO1	09/01/91	09/30/91	1	1,436
9100205	BS0904	F291	313B	317F	SGNW3	09/01/91	09/30/91	1	1,434
9100205	BS0905	F291	313B	317F	SISW1	09/01/91	09/30/91	1	1,436
9100205	BS0906	F291	313B	317F	SMKF1	09/24/91	09/30/91	1	502
9100205	BS0907	F291	313B	317F	SPGF1	09/01/91	09/30/91	1	2,153
9100205	BS0908	F291	313B	317F	SRST2	09/12/91	09/30/91	1	1,322
9100205	BS0909	F291	313B	317F	STDM4	09/01/91	09/30/91	1	1,432
9100205	BS0910	F291	313B	317F	SVLS1	09/01/91	09/30/91	1	6,972
9100205	BS0911	F291	313B	317F	TPLM2	09/01/91	09/30/91	1	2,157
9100205	BS0912	F291	313B	317F	TTIW1	09/01/91	09/30/91	1	1,436
9100205	BS0913	F291	313B	317F	VENF1	09/18/91	09/30/91	1	888
9100205	BS0914	F291	313B	317F	WPOW1	09/01/91	09/30/91	1	516
9100205	BS0915	F291	313B	317F	91222	09/01/91	09/30/91	1	1,390
9100205	BS0916	F291	313B	317F	91251	09/01/91	09/30/91	1	1,420
9100205	BS0917	F291	313B	317F	91353	09/20/91	09/30/91	1	502

9100205 BS0918 F291	313B 317F KOSP2	09/01/91 09/30/91	1	1,428
9100205 BS0919 F291	313B 317F 91365	09/01/91 09/30/91	1	1,426
9100205 BS0920 F291	313B 317F 91377	09/01/91 09/30/91	1	1,444

920
813

107

9100205

FILETYPE F291

TRACK NO. _____

B80813 - 920

	DATE	INIT.	TAPE OR DISK DSN	NO.	FILES	BYTES	BLK	SIZE	PER
CARTRIDGE	11/13/91	CWHT	A01499	1	120	4080		840,650	
TAPE	9-23-92	AWHT FJM	B38145	1	120	4800			↓
DISK									
EX									
ED									
2									
HALIZED									

REPORTED TO PRINCIPAL INVESTIGATOR: Tape A01499 is 9 TRK, NL, 6250 density

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

TRACKS DELETED FIELDS DELETED ETC

User Name <i>Cliff Haxley</i>	Phone # <i>666-4636</i>	Org/Task <i>EC1200SN3HV1</i>	Submit Date <i>11/12/91</i>	Job # <i>AS41</i>
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PART A

Request/Problem Category

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

Request/Problem Description:

Please scan tape AΦ1499

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 AΦ1499 to Bin 09

JOB INPUT

Id#/Filename: *AΦ1499*

MEDIUM: Tape Disk Cassette 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: *9111343* *DS*
 Completed By: _____

Date/Time Start: *11-13-91/13:25*
 Date/Time Completed: *11/13/91/13:25*



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

October 29, 1991

F1804-02
DB3:91-0608
SPN:pl

Mr. Anthony Picciolo
Chief Data Acquisition Management Branch
NODC/NESDIS/NOAA
Universal South
1825 Connecticut Avenue, NW
Room 416
Washington, DC 20235

Dear Mr. Picciolo:

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

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

Sincerely,

Sallie P. Nolan

S. P. Nolan
ADP Manager

Enclosures

9100205

AΦ1499



SEPTEMBER 1991

32302 09/01/91/00 09/30/91/23
 41001 09/01/91/00 09/21/91/12
 41002 09/01/91/00 09/30/91/23
 41008 09/01/91/00 09/30/91/23
 41009 09/01/91/00 09/30/91/23
 41010 09/06/91/11 09/30/91/23
 41017 09/01/91/00 09/30/91/23
 42001 09/01/91/00 09/30/91/23
 42002 09/01/91/00 09/30/91/23
 42003 09/01/91/00 09/30/91/23
 42007 09/01/91/00 09/30/91/23
 42019 09/01/91/00 09/30/91/23
 42020 09/01/91/00 09/30/91/23
 42025 09/12/91/11 09/30/91/23
 44007 09/01/91/00 09/30/91/23
 44008 09/01/91/00 09/30/91/23
 44009 09/01/91/00 09/30/91/23
 44011 09/05/91/17 09/30/91/23
 44012 09/01/91/00 09/30/91/23
 44013 09/01/91/00 09/30/91/23
 44014 09/01/91/00 09/30/91/23
 44025 09/01/91/00 09/30/91/23
 44026 09/01/91/00 09/30/91/23
 45001 09/01/91/00 09/30/91/23
 45002 09/01/91/00 09/30/91/23
 45003 09/01/91/00 09/30/91/23
 45004 09/01/91/00 09/30/91/23
 45006 09/01/91/00 09/30/91/23
 45007 09/01/91/00 09/30/91/23
 45008 09/01/91/00 09/30/91/23
 46001 09/01/91/00 09/30/91/23
 46002 09/01/91/00 09/30/91/23
 46003 09/01/91/00 09/30/91/23
 46005 09/01/91/00 09/30/91/23
 46011 09/01/91/00 09/30/91/23
 46012 09/01/91/00 09/30/91/23
 46013 09/01/91/00 09/30/91/23
 46014 09/01/91/00 09/30/91/23
 46022 09/01/91/00 09/30/91/23
 46023 09/01/91/00 09/30/91/23
 46025 09/01/91/00 09/30/91/23
 46026 09/01/91/00 09/30/91/23
 46027 09/01/91/00 09/30/91/23
 46028 09/01/91/00 09/30/91/23
 46030 09/01/91/00 09/30/91/23
 46035 09/28/91/00 09/30/91/23
 46040 09/01/91/00 09/30/91/23
 46041 09/01/91/00 09/30/91/23
 46042 09/01/91/00 09/30/91/23
 46045 09/01/91/00 09/30/91/23
 51001 09/01/91/00 09/30/91/23
 51002 09/01/91/00 09/30/91/23
 51003 09/01/91/00 09/30/91/23
 51004 09/01/91/00 09/30/91/23
 ALSN6 09/01/91/00 09/30/91/23
 BURL1 09/01/91/00 09/30/91/23
 BUSL1 09/11/91/00 09/30/91/23
 BUZM3 09/01/91/00 09/30/91/23
 CARO3 09/01/91/00 09/30/91/23
 CHLV2 09/01/91/00 09/30/91/23
 CLKN7 09/01/91/00 09/30/91/23

CSBF1	09/01/91/00	09/30/91/23
DBLN6	09/01/91/00	09/30/91/23
DESW1	09/01/91/00	09/30/91/23
DISW3	09/01/91/00	09/30/91/23
DPIA1	09/01/91/00	09/30/91/23
DSLN7	09/01/91/00	09/30/91/23
FBIS1	09/01/91/00	09/30/91/23
FFIA2	09/01/91/00	09/30/91/23
FPSN7	09/01/91/00	09/30/91/23
FWYF1	09/01/91/00	09/30/91/23
GBCL1	09/01/91/00	09/30/91/23
GDIL1	09/01/91/00	09/30/91/23
GLLN6	09/01/91/00	09/30/91/23
IOSN3	09/01/91/00	09/30/91/23
LKWF1	09/01/91/00	09/30/91/23
LNEL1	09/01/91/00	09/30/91/23
MDRM1	09/01/91/00	09/30/91/23
MISM1	09/01/91/00	09/30/91/23
MLRF1	09/01/91/00	09/30/91/23
MPCL1	09/01/91/00	09/30/91/23
NWFO3	09/01/91/00	09/30/91/23
ORKP2	09/01/91/00	09/30/91/23
PILM4	09/05/91/20	09/30/91/23
PTAC1	09/01/91/00	09/30/91/23
PTAT2	09/01/91/00	09/30/91/23
PTGC1	09/01/91/00	09/30/91/23
ROAM4	09/01/91/00	09/30/91/23
SANF1	09/01/91/00	09/25/91/01
SAUF1	09/01/91/00	09/30/91/23
SBIO1	09/01/91/00	09/30/91/23
SGNW3	09/01/91/00	09/30/91/23
SISW1	09/01/91/00	09/30/91/23
SMKF1	09/24/91/00	09/30/91/23
SPGF1	09/01/91/00	09/30/91/23
SRST2	09/12/91/15	09/30/91/08
STDM4	09/01/91/00	09/30/91/23
SVLS1	09/01/91/00	09/30/91/23
TPLM2	09/01/91/00	09/30/91/23
TTIW1	09/01/91/00	09/30/91/23
VENF1	09/18/91/15	09/30/91/00
WPOW1	09/01/91/00	09/30/91/23
91222	09/01/91/00	09/30/91/23
91251	09/01/91/00	09/30/91/23
91353	09/20/91/11	09/30/91/23
91356	09/01/91/00	09/30/91/23
91365	09/01/91/00	09/30/91/23
91377	09/01/91/00	09/30/91/23

C. DATA FORMAT

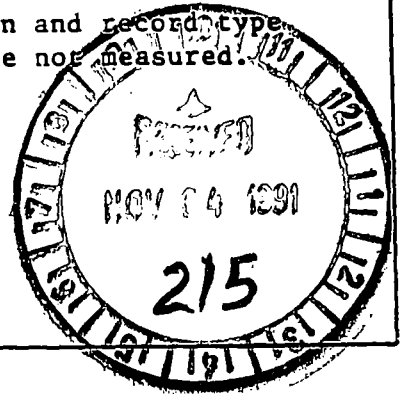
COMPLETE THIS SECTION FOR PUNCHED CARDS OR TAPE, MAGNETIC TAPE, OR DISC SUBMISSIONS.

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

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

2. GIVE BRIEF DESCRIPTION OF FILE ORGANIZATION

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



3. ATTRIBUTES AS EXPRESSED IN PL-1 ALGOL COBOL
 FORTRAN _____ LANGUAGE

4. RESPONSIBLE COMPUTER SPECIALIST:

NAME AND PHONE NUMBER _____
 ADDRESS _____

COMPLETE THIS SECTION IF DATA ARE ON MAGNETIC TAPE

<p>5. RECORDING MODE</p> <p><input type="checkbox"/> BCD <input type="checkbox"/> BINARY</p> <p><input checked="" type="checkbox"/> ASCII <input type="checkbox"/> EBCDIC</p> <p><input type="checkbox"/> _____</p>	<p>9. LENGTH OF INTER-RECORD GAP (IF KNOWN) <input type="checkbox"/> 3/4 INCH</p> <p><input type="checkbox"/> _____</p>
<p>6. NUMBER OF TRACKS (CHANNELS)</p> <p><input type="checkbox"/> SEVEN</p> <p><input checked="" type="checkbox"/> NINE</p> <p><input type="checkbox"/> _____</p>	<p>10. END OF FILE MARK</p> <p><input checked="" type="checkbox"/> OCTAL 17</p> <p><input type="checkbox"/> _____</p>
<p>7. PARITY</p> <p><input checked="" type="checkbox"/> ODD</p> <p><input type="checkbox"/> EVEN</p>	<p>11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME LAY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER)</p>
<p>8. DENSITY</p> <p><input type="checkbox"/> 200 BPI <input type="checkbox"/> 1600 BPI</p> <p><input type="checkbox"/> 556 BPI</p> <p><input type="checkbox"/> 800 BPI</p> <p><input checked="" type="checkbox"/> 6250 BPI</p>	<p>12. PHYSICAL BLOCK LENGTH IN BYTES</p> <p style="text-align: center;">4080</p>
	<p>13. LENGTH OF BYTES IN BITS</p> <p style="text-align: center;">8</p>

FILE TYPE 291 - METEOROLOGY OCEANOGRAPHY AND WAVE SPECTRA

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

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

****NOTE****

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

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

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

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

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

01/30/91 - DESIGNED F291 TO:

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

RECORD FORMAT DESCRIPTION

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

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

RECORD FORMAT DESCRIPTION

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

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN <small>(e.g., bits, bytes)</small>	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
ENVIRONMENTAL DATA RECORD (RECORD B) (Continued)					
CONDUCTIVITY (SEA SURFACE)	89	5			XXXXX - Millisiemens/cm to thousandths
DOMINANT WAVE PERIOD*	94	3			XXX - Seconds to tenths
MAXIMUM WAVE HEIGHT	97	3			XXX - Meters to tenths
MAXIMUM WAVE STEEPNESS	100	3			XXX
WIND GUST	103	4			XXXX - Meters/sec to hundredths
WIND GUST AVERAGING PERIOD	107	2			XX - Seconds
WIND GUST	109	4			XXXX - Meters/sec to hundredths
WIND GUST AVERAGING PERIOD	113	2			XX - Seconds
WIND SPEED (58 MIN AVG)	115	3			XXX - Meters/sec to tenths
WIND DIRECTION (58 MIN AVG)	118	3			XXX - Whole degrees
* Significant wave height, average wave period, and dominant wave period are set to zero when significant wave height is less than 0.15 meters.					
NONDIRECTIONAL WAVE SPECTRA DATA RECORD (RECORD C)					
FILE TYPE	1	3			"291" (constant)
FILE DATE	4	6			YYMMDD of file generation
RECORD TYPE	10	1			Always 'C'
STATION	11	6			Six characters unique name of observation point
OBSERVED DATE	17	6			YYMMDD (UTC)
OBSERVED TIME	23	4			HHMM (UTC)
BLANKS	27	7			
COUNT	34	1			X - Number of frequencies on this record
DATA					Up to 5 frequency, resolution, and density fields. Null fields are zero or blank
FREQUENCY	35	4			XXXX - Center frequency of interval in Hertz to thousandths
RESOLUTION	39	4			XXXX - Interval width in Hertz to ten-thousandths
DENSITY	43	6			XXXXXX - Spectral Density of interval in m ² /Hz to thousandths
FREQUENCY	49	4			XXXX - See above
RESOLUTION	53	4			XXXX - See above

RECORD FORMAT DESCRIPTION

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

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

RECORD FORMAT DESCRIPTION

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

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

RECORD FORMAT DESCRIPTION

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

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

RECORD FORMAT DESCRIPTION

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

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

RECORD FORMAT DESCRIPTION

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

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN (e.g., bits, 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

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

RECORD NAME

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

RECORD FORMAT DESCRIPTION

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

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN <small>(e.g., 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>					

Password:

accNo	flea	refNo	proj	inst	ship	startDate	cruise	catId
9100205	F291	BS0866	9999	313B	317F	1991/09/01	51004	202596
9100205	F291	BS0867	9999	313B	317F	1991/09/01	ALSN6	202597
9100205	F291	BS0868	9999	313B	317F	1991/09/01	BURL1	202598
9100205	F291	BS0869	9999	313B	317F	1991/09/11	BUSL1	202599
9100205	F291	BS0870	9999	313B	317F	1991/09/01	BUZM3	202600
9100205	F291	BS0871	9999	313B	317F	1991/09/01	CARO3	202601
9100205	F291	BS0872	9999	313B	317F	1991/09/01	CHLV2	202602
9100205	F291	BS0873	9999	313B	317F	1991/09/01	CLKN7	202603
9100205	F291	BS0874	9999	313B	317F	1991/09/01	CSBF1	202604
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