

ACCESS NUMBER	REF NUMBER	FILE TYPE	PROJ CODE	INST	PLAT	CRUISE NO	CRUISE START	CRUISE END	NUM STA	NUM REC
9100229	BS0921	F291		313B	317F	32302	10/01/91	10/31/91	1	7,136
9100229	BS0922	F291		313B	317F	41001	10/22/91	10/31/91	1	2,442
9100229	BS0923	F291		313B	317F	41002	10/01/91	10/31/91	1	8,904
9100229	BS0924	F291		313B	317F	41008	10/01/91	10/31/91	1	45,264
9100229	BS0925	F291		313B	317F	41009	10/01/91	10/31/91	1	14,844
9100229	BS0926	F291		313B	317F	41010	10/01/91	10/31/91	1	14,862
9100229	BS0927	F291		313B	317F	41017	10/01/91	10/23/91	1	33,068
9100229	BS0928	F291		313B	317F	42001	10/01/91	10/31/91	1	8,184
9100229	BS0929	F291		313B	317F	42002	10/01/91	10/31/91	1	8,145
9100229	BS0930	F291		313B	317F	42003	10/01/91	10/31/91	1	8,077
9100229	BS0931	F291		313B	317F	42007	10/01/91	10/31/91	1	2,018
9100229	BS0932	F291		313B	317F	42019	10/01/91	10/31/91	1	7,402
9100229	BS0933	F291		313B	317F	42020	10/01/91	10/07/91	1	1,450
9100229	BS0934	F291		313B	317F	42025	10/01/91	10/31/91	1	7,432
9100229	BS0935	F291		313B	317F	44007	10/01/91	10/31/91	1	7,420
9100229	BS0936	F291		313B	317F	44008	10/01/91	10/31/91	1	8,046
9100229	BS0937	F291		313B	317F	44009	10/01/91	10/31/91	1	7,404
9100229	BS0938	F291		313B	317F	44011	10/01/91	10/31/91	1	8,117
9100229	BS0939	F291		313B	317F	44012	10/01/91	10/31/91	1	7,370
9100229	BS0940	F291		313B	317F	44013	10/01/91	10/31/91	1	7,440
9100229	BS0941	F291		313B	317F	44014	10/01/91	10/31/91	1	45,203
9100229	BS0942	F291		313B	317F	44025	10/01/91	10/31/91	1	44,170
9100229	BS0943	F291		313B	317F	44026	10/01/91	10/23/91	1	32,029
9100229	BS0944	F291		313B	317F	45001	10/01/91	10/28/91	1	6,454
9100229	BS0945	F291		313B	317F	45002	10/01/91	10/31/91	1	3,704
9100229	BS0946	F291		313B	317F	45003	10/01/91	10/31/91	1	7,440
9100229	BS0947	F291		313B	317F	45004	10/01/91	10/31/91	1	8,898
9100229	BS0948	F291		313B	317F	45006	10/01/91	10/28/91	1	7,886
9100229	BS0949	F291		313B	317F	45007	10/01/91	10/23/91	1	32,824
9100229	BS0950	F291		313B	317F	45008	10/01/91	10/31/91	1	8,908
9100229	BS0951	F291		313B	317F	46001	10/01/91	10/31/91	1	8,165
9100229	BS0952	F291		313B	317F	46002	10/01/91	10/31/91	1	8,173
9100229	BS0953	F291		313B	317F	46003	10/01/91	10/31/91	1	8,164
9100229	BS0954	F291		313B	317F	46005	10/01/91	10/31/91	1	8,113
9100229	BS0955	F291		313B	317F	46011	10/01/91	10/10/91	1	2,720
9100229	BS0956	F291		313B	317F	46012	10/01/91	10/31/91	1	7,412
9100229	BS0957	F291		313B	317F	46013	10/01/91	10/31/91	1	8,904
9100229	BS0958	F291		313B	317F	46014	10/01/91	10/01/91	1	106
9100229	BS0959	F291		313B	317F	46022	10/01/91	10/31/91	1	7,376
9100229	BS0960	F291		313B	317F	46023	10/01/91	10/31/91	1	7,422
9100229	BS0961	F291		313B	317F	46025	10/01/91	10/31/91	1	45,085
9100229	BS0962	F291		313B	317F	46026	10/01/91	10/31/91	1	7,420
9100229	BS0963	F291		313B	317F	46027	10/01/91	10/13/91	1	2,942
9100229	BS0964	F291		313B	317F	46028	10/01/91	10/31/91	1	8,916
9100229	BS0965	F291		313B	317F	46029	10/09/91	10/31/91	1	6,186
9100229	BS0966	F291		313B	317F	46030	10/01/91	10/08/91	1	1,766
9100229	BS0967	F291		313B	317F	46035	10/01/91	10/31/91	1	7,097
9100229	BS0968	F291		313B	317F	46A35	10/01/91	10/31/91	1	4,072
9100229	BS0969	F291		313B	317F	46040	10/01/91	10/31/91	1	7,330
9100229	BS0970	F291		313B	317F	46041	10/01/91	10/31/91	1	7,342

9100229	BS0971	F291	313B	317F	46042	10/01/91	10/31/91	1	44,849
9100229	BS0972	F291	313B	317F	46045	10/01/91	10/31/91	1	44,963
9100229	BS0973	F291	313B	317F	51001	10/01/91	10/15/91	1	3,198
9100229	BS0974	F291	313B	317F	51002	10/01/91	10/31/91	1	8,771
9100229	BS0975	F291	313B	317F	51003	10/01/91	10/31/91	1	8,916
9100229	BS0976	F291	313B	317F	51004	10/01/91	10/31/91	1	8,222
9100229	BS0977	F291	313B	317F	91222	10/01/91	10/31/91	1	1,458
9100229	BS0978	F291	313B	317F	91251	10/01/91	10/31/91	1	1,484
9100229	BS0979	F291	313B	317F	91343	10/01/91	10/31/91	1	1,474
9100229	BS0980	F291	313B	317F	91353	10/01/91	10/31/91	1	1,476
9100229	BS0981	F291	313B	317F	91365	10/01/91	10/31/91	1	1,480
9100229	BS0982	F291	313B	317F	91377	10/01/91	10/31/91	1	1,484
9100229	BS0983	F291	313B	317F	ALSN6	10/01/91	10/31/91	1	6,590
9100229	BS0984	F291	313B	317F	BURL1	10/01/91	10/31/91	1	2,232
9100229	BS0985	F291	313B	317F	BUSL1	10/29/91	10/31/91	1	90
9100229	BS0986	F291	313B	317F	BUZM3	10/01/91	10/31/91	1	1,486
9100229	BS0987	F291	313B	317F	CARO3	10/01/91	10/31/91	1	1,486
9100229	BS0988	F291	313B	317F	CHLV2	10/01/91	10/31/91	1	7,936
9100229	BS0989	F291	313B	317F	CLKN7	10/01/91	10/31/91	1	2,208
9100229	BS0990	F291	313B	317F	CSBF1	10/01/91	10/31/91	1	2,222
9100229	BS0991	F291	313B	317F	DBLN6	10/01/91	10/31/91	1	1,486
9100229	BS0992	F291	313B	317F	DESW1	10/01/91	10/31/91	1	1,486
9100229	BS0993	F291	313B	317F	DISW3	10/01/91	10/31/91	1	1,486
9100229	BS0994	F291	313B	317F	DPIA1	10/01/91	10/31/91	1	1,484
9100229	BS0995	F291	313B	317F	DSLN7	10/01/91	10/31/91	1	7,611
9100229	BS0996	F291	313B	317F	FBIS1	10/01/91	10/31/91	1	2,229
9100229	BS0997	F291	313B	317F	FFIA2	10/01/91	10/31/91	1	1,480
9100229	BS0998	F291	313B	317F	FPSN7	10/01/91	10/31/91	1	2,226
9100229	BS0999	F291	313B	317F	FWYF1	10/01/91	10/31/91	1	2,225
9100229	BS1000	F291	313B	317F	GBCL1	10/01/91	10/31/91	1	7,793
9100229	BS1001	F291	313B	317F	GDIL1	10/01/91	10/31/91	1	2,232
9100229	BS1002	F291	313B	317F	GLLN6	10/01/91	10/31/91	1	1,486
9100229	BS1003	F291	313B	317F	IOSN3	10/01/91	10/31/91	1	1,486
9100229	BS1004	F291	313B	317F	KOSP2	10/01/91	10/31/91	1	1,392
9100229	BS1005	F291	313B	317F	LKWF1	10/01/91	10/31/91	1	2,216
9100229	BS1006	F291	313B	317F	LNEL1	10/01/91	10/31/91	1	1,434
9100229	BS1007	F291	313B	317F	MDRM1	10/01/91	10/31/91	1	1,488
9100229	BS1008	F291	313B	317F	MISM1	10/01/91	10/31/91	1	1,410
9100229	BS1009	F291	313B	317F	MLRF1	10/01/91	10/31/91	1	2,229
9100229	BS1010	F291	313B	317F	MPCL1	10/01/91	10/31/91	1	6,753
9100229	BS1011	F291	313B	317F	NWPO3	10/01/91	10/31/91	1	1,474
9100229	BS1012	F291	313B	317F	PIILM4	10/01/91	10/31/91	1	1,486
9100229	BS1013	F291	313B	317F	PTAC1	10/01/91	10/31/91	1	1,488
9100229	BS1014	F291	313B	317F	PTAT2	10/01/91	10/31/91	1	2,221
9100229	BS1015	F291	313B	317F	PTGC1	10/01/91	10/31/91	1	1,262
9100229	BS1016	F291	313B	317F	ROAM4	10/01/91	10/31/91	1	1,486
9100229	BS1017	F291	313B	317F	SANF1	10/22/91	10/31/91	1	665
9100229	BS1018	F291	313B	317F	SAUF1	10/01/91	10/31/91	1	2,226
9100229	BS1019	F291	313B	317F	SBIO1	10/01/91	10/31/91	1	1,488
9100229	BS1020	F291	313B	317F	SGNW3	10/01/91	10/31/91	1	1,486
9100229	BS1021	F291	313B	317F	SISW1	10/01/91	10/29/91	1	1,368
9100229	BS1022	F291	313B	317F	SMKF1	10/01/91	10/31/91	1	2,230
9100229	BS1023	F291	313B	317F	SPGF1	10/01/91	10/31/91	1	2,232
9100229	BS1024	F291	313B	317F	SRST2	10/01/91	10/31/91	1	2,201
9100229	BS1025	F291	313B	317F	STDM4	10/01/91	10/31/91	1	1,486

9100229	BS1026	F291	313B	317F	SVLS1	10/01/91	10/31/91	1	7,387
9100229	BS1027	F291	313B	317F	TPLM2	10/01/91	10/31/91	1	2,231
9100229	BS1028	F291	313B	317F	TTIW1	10/01/91	10/31/91	1	1,450
9100229	BS1029	F291	313B	317F	VENF1	10/01/91	10/31/91	1	2,229
9100229	BS1030	F291	313B	317F	WPOW1	10/01/91	10/31/91	1	1,395

1030
 921

 109

ACCESSION NO. 9100229

FILETYPE F29

TRACK NO. _____

PROJECT IDENTIFICATION _____

STEP	DATE	INIT.	TAPE OR DISK DSN	NO. FILES	RECL	BLK SIZE	NO. RECORDS
ORIG. TAPE	12/16/91	R02	A01517	1	120	4080	P20,420
DUPLICATE TAPE CART.	9-24-92	FJM	B38146 *	1	120	4800	↓
REFORMATTED TAPE							
REFORMATTED DISK							
FIRST MULCHEK							
FINAL MULCHEK							
MPD75 OR F022							
DATA SET FINALIZED							

~~ERRORS REPORTED TO PRINCIPAL INVESTIGATOR:~~ * = CARTRIDGE

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

COMMENTS (TRACKS DELETED, FIELDS DELETED, ETC.)



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

November 27, 1991

F1804-02
DB3:91-0675
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 October 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.

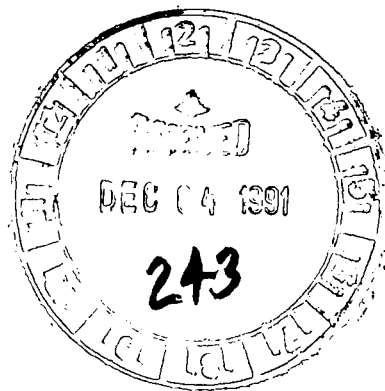
Sincerely,

Sallie P. Nolan

S. P. Nolan
ADP Manager

Enclosure

[Handwritten signature]



OCTOBER 1991

32302 10/01/91/00 10/31/91/23
41001 10/22/91/18 10/31/91/23
41002 10/01/91/00 10/31/91/23
41008 10/01/91/00 10/31/91/23
41009 10/01/91/00 10/31/91/23
41010 10/01/91/00 10/31/91/23
41017 10/01/91/00 10/23/91/22
42001 10/01/91/00 10/31/91/23
42002 10/01/91/00 10/31/91/23
42003 10/01/91/00 10/31/91/23
42007 10/01/91/00 10/31/91/23
42019 10/01/91/00 10/31/91/23
42020 10/01/91/00 10/07/91/01
42025 10/01/91/00 10/31/91/23
44007 10/01/91/00 10/31/91/23
44008 10/01/91/00 10/31/91/23
44009 10/01/91/00 10/31/91/23
44011 10/01/91/00 10/31/91/23
44012 10/01/91/00 10/31/91/23
44013 10/01/91/00 10/31/91/23
44014 10/01/91/00 10/31/91/23
44025 10/01/91/00 10/31/91/23
44026 10/01/91/00 10/23/91/00
45001 10/01/91/00 10/28/91/02
45002 10/01/91/00 10/31/91/23
45003 10/01/91/00 10/31/91/23
45004 10/01/91/00 10/31/91/23
45006 10/01/91/00 10/28/91/11
45007 10/01/91/00 10/23/91/13
45008 10/01/91/00 10/31/91/23
46001 10/01/91/00 10/31/91/23
46002 10/01/91/00 10/31/91/23
46003 10/01/91/00 10/31/91/23
46005 10/01/91/00 10/31/91/23
46011 10/01/91/00 10/10/91/18
46012 10/01/91/00 10/31/91/23
46013 10/01/91/00 10/31/91/23
46014 10/01/91/00 10/01/91/17
46022 10/01/91/00 10/31/91/23
46023 10/01/91/00 10/31/91/23
46025 10/01/91/00 10/31/91/23
46026 10/01/91/00 10/31/91/23
46027 10/01/91/00 10/13/91/08
46028 10/01/91/00 10/31/91/23
46029 10/09/91/19 10/31/91/23
46030 10/01/91/00 10/08/91/10
46035 10/01/91/00 10/31/91/23
46040 10/01/91/00 10/31/91/23
46041 10/01/91/00 10/31/91/23
46042 10/01/91/00 10/31/91/23
46045 10/01/91/00 10/31/91/23
51001 10/01/91/00 10/15/91/18
51002 10/01/91/00 10/31/91/23
51003 10/01/91/00 10/31/91/23
51004 10/01/91/00 10/31/91/23
ALSN6 10/01/91/00 10/31/91/23
BURL1 10/01/91/00 10/31/91/23
BUSL1 10/29/91/12 10/31/91/23
BUZM3 10/01/91/00 10/31/91/23
CARO3 10/01/91/00 10/31/91/23
CHLV2 10/01/91/00 10/31/91/23
CLKN7 10/01/91/00 10/31/91/23

CSBF1	10/01/91/00	10/31/91/23
DBLN6	10/01/91/00	10/31/91/23
DESW1	10/01/91/00	10/31/91/23
DISW3	10/01/91/00	10/31/91/23
DP1A1	10/01/91/00	10/31/91/23
DSL7	10/01/91/00	10/31/91/23
FBIS1	10/01/91/00	10/31/91/23
FFIA2	10/01/91/00	10/31/91/23
FPSN7	10/01/91/00	10/31/91/23
FWYF1	10/01/91/00	10/31/91/23
GBCL1	10/01/91/00	10/31/91/23
GDIL1	10/01/91/00	10/31/91/23
GLLN6	10/01/91/00	10/31/91/23
IOSN3	10/01/91/00	10/31/91/23
KOSP2	10/01/91/00	10/31/91/23
LKWF1	10/01/91/00	10/31/91/23
LNEL1	10/01/91/00	10/31/91/23
MDRM1	10/01/91/00	10/31/91/23
MISM1	10/01/91/00	10/31/91/23
MLRF1	10/01/91/00	10/31/91/23
MPCL1	10/01/91/00	10/31/91/23
NWFO3	10/01/91/00	10/31/91/23
PILM4	10/01/91/00	10/31/91/23
PTAC1	10/01/91/00	10/31/91/23
PTAT2	10/01/91/00	10/31/91/23
PTGC1	10/01/91/00	10/31/91/23
ROAMA	10/01/91/00	10/31/91/23
SANF1	10/22/91/11	10/31/91/23
SAUF1	10/01/91/00	10/31/91/23
SBI01	10/01/91/00	10/31/91/23
SGNW3	10/01/91/00	10/31/91/23
SISW1	10/01/91/00	10/29/91/12
SMKF1	10/01/91/00	10/31/91/23
SPGF1	10/01/91/00	10/31/91/23
SRST2	10/01/91/00	10/31/91/23
STDM4	10/01/91/00	10/31/91/23
SVLS1	10/01/91/00	10/31/91/23
TPLM2	10/01/91/00	10/31/91/23
TTIW1	10/01/91/00	10/31/91/23
VENF1	10/01/91/00	10/31/91/23
WPOW1	10/01/91/00	10/31/91/23
91222	10/01/91/00	10/31/91/23
91251	10/01/91/00	10/31/91/23
91343	10/01/91/00	10/31/91/23
91353	10/01/91/00	10/31/91/23
91365	10/01/91/00	10/31/91/23
91377	10/01/91/00	10/31/91/23

User Name <i>RUIZ</i>	Phone # <i>4643</i>	Org/Task <i>OC13</i>	Submit Date <i>1-27-92</i>	Due Date
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PART A

Request/Problem Category

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

Request/Problem Description:

SCAN TAPE

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:

Return to Bin 44

JOB INPUT

Id#/Filename: *A01517*

Medium: Tape Disk Diskette Other Specify: *D02444*
 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:
 Specs: 800 1600 6250 NL SL
 Record Length: _____ MAX Blocksize: _____

(OC3 Use Only)

JOB Number: *92012701* *g.s*
 Completed By: _____

Date/Time Start: *1-28-92/07:10*
 Date/Time Completed: *1-28-92/07:20*

C. DATA FORMAT

9100229

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

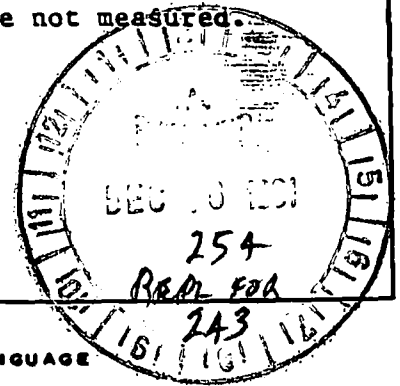
1. LIST RECORD TYPES CONTAINED IN THE TRANSMITTAL OF YOUR FILE
GIVE METHOD OF IDENTIFYING EACH RECORD TYPE

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.

F-291
WIND/WAVE SPECTRA



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 <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>LRECL = 120 BLK SZ = 4080 6250 ASCII</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 4080</p> <p>13. LENGTH OF BYTES IN BITS 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			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 Deg C to hundredths
PRACTICAL SALINITY	36	5			XXXXX - Parts per thousands reported to thousands
CONDUCTIVITY	41	4			XXXX - Millisiemens/cm to hundredths
DEPTH	45,63, 81,99	5			Repeated in descending order
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., bits, bytes)</small>	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
CO AND QUAD SPECTRA FOR DIRECTIONAL WAVES DATA RECORD (RECORD G) (Continued)					
QUAD-SPECTRA (Q23)	100	6			XXXXXX - See above
EXPONENT*	106	2			XX
SPECTRA (C22-C33)	108	6			XXXXXX - See above
EXPONENT*	114	2			XX
BLANKS	116	5			
* If this exponent is less than -9 the exponent and its associated spectra will be zero.					
DIRECTIONAL WAVE FOURIER COEFFICIENT DATA RECORD (RECORD H)					
FILE TYPE	1	3			Always "291"
FILE DATE	4	6			YYMMDD of file generation
RECORD TYPE	10	1			Always 'H'
STATION	11	6			Six characters unique name of observation point
OBSERVED DATE	17	6			YYMMDD (UTC)
OBSERVED TIME	23	4			HHMM (UTC)
FREQUENCY	27	4			XXXX - Hz to thousandths
RESOLUTION	31	5			XXXXX - Hz to ten-thousandths
ANGULAR FOURIER COEFF (a ₀)	36	6			XXXXXX - m ² /Hz
EXPONENT	42	2			XX
ANGULAR FOURIER COEFF (a ₁)	44	6			XXXXXX - m ² /Hz
EXPONENT	50	2			XX
ANGULAR FOURIER COEFF (b ₁)	52	6			XXXXXX - m ² /Hz
EXPONENT	58	2			XX
ANGULAR FOURIER COEFF (a ₂)	60	6			XXXXXX - m ² /Hz
EXPONENT	66	2			XX
ANGULAR FOURIER COEFF (b ₂)	68	6			XXXXXX - m ² /Hz
EXPONENT	74	2			XX
ANGULAR FOURIER COEFF (a ₃)	76	6			XXXXXX - m ² /Hz
EXPONENT	82	2			XX
ANGULAR FOURIER COEFF (b ₃)	84	6			XXXXXX - m ² /Hz
EXPONENT	90	2			XX
ANGULAR FOURIER COEFF (a ₄)	92	6			XXXXXX - m ² /Hz
EXPONENT	98	2			XX
ANGULAR FOURIER COEFF (b ₄)	100	6			XXXXXX - m ² /Hz
EXPONENT	106	2			XX

RECORD FORMAT DESCRIPTION

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

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

RECORD FORMAT DESCRIPTION

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

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

RECORD FORMAT DESCRIPTION

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

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN <small>(e.g. 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
9100229	F291	BS0921	9999	313B	317F	1991/10/01	32302	202851
9100229	F291	BS0922	9999	313B	317F	1991/10/22	41001	202852
9100229	F291	BS0923	9999	313B	317F	1991/10/01	41002	202853
9100229	F291	BS0924	9999	313B	317F	1991/10/01	41008	202854
9100229	F291	BS0925	9999	313B	317F	1991/10/01	41009	202855
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