ACCESS NUMBER	REF NUMBER	FILE TYPE	PROJ CODE	INST	PLAT	CRUISE NO	CRUISE START	CRUISE END	NUM STA	NUM REC
9000097	BR8993	F191		313B	317F	32302	03/01/90	03/31/90	1	6,988
9000097	BR8994	F191		313B	317F	41001	03/01/90	03/31/90	1	7,966
9000097	BR8995	F191		313B	317F	41002	03/27/90	03/31/90	1	1,188
9000097	BR8996	F191		313B	317F	41006	03/01/90	03/31/90	1	7,996
9000097	BR8997	F191		313B	317F	41008	03/01/90	03/31/90	1	37,775
9000097	BR8998	F191		313B	317F	41009	03/01/90	03/31/90	1	14,668
9000097	BR8999	F191		313B	317F	41010	03/01/90	03/31/90	1	14,614
9000097	BR9000	F191		313B	317F	42001	03/01/90	03/31/90	1	8,002
9000097	BR9001	F191		313B	317F	42002	03/01/90	03/31/90	1	7,533
9000097	BR9002	F191		313B	317F	42003	03/01/90	03/31/90	1	7,935
9000097	BR9003	F191		313B	317F	42007	03/01/90	03/31/90	1	8,019
9000097	BR9004	F191		313B	317F	42015	03/01/90	03/31/90	1	44,538
9000097	BR9005	F191		313B	317F	42016	03/01/90	03/31/90	1	44,774
9000097	BR9006	F191		313B	317F	42018	03/01/90	03/22/90	1	30,382
9000097	BR9007	F191		313B	317F	44004	03/01/90	03/31/90	1	8,058
9000097	BR9008	F191		313B	317F	44005	03/01/90	03/31/90	1	7,675
9000097	BR9009	F191		313B	317F	44007	03/01/90	03/31/90	1	7,272
9000097	BR9010	F191		313B	317F	44008	03/01/90	03/31/90	1	8,077

ACCESS NUMBER	REF NUMBER	FILE TYPE	PROJ CODE	INST	PLAT	CRUISE NO	CRUISE START	CRUISE END	NUM STA	NUM REC
9000097	BR9011	F191		313B	317F	44009	03/01/90	03/31/90	1	6,394
9000097	BR9012	F191		313B	317F	44011	03/01/90	03/31/90	1	7,984
9000097	BR9013	F191		313B	317F	44013	03/01/90	03/31/90	1	7,296
9000097	BR9014	F191		313B	317F	46001	03/01/90	03/23/90	1	638
9000097	BR9015	F191		313B	317F	46003	03/01/90	03/31/90	1	7,352
9000097	BR9016	F191		313B	317F	46005	03/01/90	03/31/90	1	8,886
9000097	BR9017	F191		313B	317F	46006	03/01/90	03/31/90	1	7,967
9000097	BR9018	F191		313B	317F	46010	03/01/90	03/31/90	1	7,366
9000097	BR9019	F191		313B	317F	46011	03/01/90	03/31/90	1	8,884
9000097	BR9020	F191		313B	317F	46012	03/01/90	03/12/90	1	2,824
9000097	BR9021	F191		313B	317F	46013	03/01/90	03/31/90	1	7,404
9000097	BR9022	F191		313B	317F	46014	03/01/90	03/31/90	1	8,884
9000097	BR9023	F191		313B	317F	46022	03/01/90	03/31/90	1	5,604
9000097	BR9024	F191		313B	317F	46025	03/01/90	03/31/90	1	8,872
9000097	BR9025	F191		313B	317F	46026	03/01/90	03/31/90	1	7,362
9000097	BR9026	F191		313B	317F	46027	03/01/90	03/31/90	1	7,276
9000097	BR9027	F191		313B	317F	46028	03/01/90	03/31/90	1	5,234
9000097	BR9028	F191		313B	317F	46030	03/01/90	03/26/90	1	6,096
9000097	BR9029	F191		313B	317F	46035	03/01/90	03/31/90	1	8,040
9000097	BR9030	F191		313B	317F	46040	03/01/90	03/31/90	1	7,379

ACCESS NUMBER	REF NUMBER	FILE TYPE	PROJ CODE	INST	PLAT	CRUISE NO	CRUISE START	CRUISE END	NUM STA	NUM REC
9000097	BR9031	F191		313B	317F	46041	03/01/90	03/31/90	1	7,328
9000097	BR9032	F191		313B	317F	46042	03/01/90	03/31/90	1	44,605
9000097	BR9033	F191		313B	317F	51001	03/01/90	03/31/90	1	8,888
9000097	BR9034	F191		313B	317F	51002	03/01/90	03/31/90	1	8,856
9000097	BR9035	F191		313B	317F	51003	03/01/90	03/31/90	1	492
9000097	BR9036	F191		313B	317F	51004	03/01/90	03/31/90	1	8,898
9000097	BR9037	F191		313B	317F	ALSN6	03/01/90	03/31/90	1	6,980
9000097	BR9038	F191		313B	317F	BURL1	03/01/90	03/31/90	1	2,216
9000097	BR9039	F191		313B	317F	BUZM3	03/01/90	03/31/90	1	1,454
9000097	BR9040	F191		313B	317F	CARO3	03/01/90	03/31/90	1	1,476
9000097	BR9041	F191		313B	317F	CHLV2	03/01/90	03/31/90	1	7,495
9000097	BR9042	F191		313B	317F	CLKN7	03/01/90	03/31/90	1	2,207
9000097	BR9043	F191		313B	317F	CSBF1	03/01/90	03/31/90	1	2,215
9000097	BR9044	F191		313B	317F	DBLN6	03/01/90	03/31/90	1	1,474
9000097	BR9045	F191		313B	317F	DESW1	03/01/90	03/31/90	1	1,476
9000097	BR9046	F191		313B	317F	DISW3	03/01/90	03/31/90	1	1,470
9000097	BR9047	F191		313B	317F	DPIA1	03/01/90	03/31/90	1	1,460
9000097	BR9048	F191		313B	317F	DSLN7	03/01/90	03/31/90	1	7,726
9000097	BR9049	F191		313B	317F	ENIP2	03/01/90	03/31/90	1	1,478
9000097	BR9050	F191		313B	317F	FARP2	03/01/90	03/31/90	1	1,118
9000097	BR9051	F191		313B	317F	FBIS1	03/01/90	03/31/90	1	1,476
9000097	BR9052	F191		313B	317F	FFIA2	03/01/90	03/31/90	1	1,472
9000097	BR9053	F191		313B	317F	FPSN7	03/01/90	03/31/90	1	2,201
9000097	BR9054	F191		313B	317F	GBCL1	03/01/90	03/31/90	1	2,221
9000097	BR9055	F191		313B	317F	GDIL1	03/01/90	03/31/90	1	2,199
9000097	BR9056	F191		313B	317F	GLLN6	03/01/90	03/31/90	1	1,468
9000097	BR9057	F191		313B	317F	IOSN3	03/01/90	03/31/90	1	1,474
9000097	BR9058	F191		313B	317F	LKWF1	03/01/90	03/31/90	1	2,187
9000097	BR9059	F191		313B	317F	MDRM1	03/01/90	03/31/90	1	1,466
9000097	BR9060	F191		313B	317F	MISM1	03/01/90	03/31/90	1	1,474
9000097	BR9061	F191		313B	317F	MLRF1	03/01/90	03/31/90	1	1,478
9000097	BR9062	F191		313B	317F	MPCL1	03/01/90	03/31/90	1	1,236
9000097	BR9063	F191		313B	317F	NWPO3	03/01/90	03/31/90	1	1,480
9000097	BR9064	F191		313B	317F	PILM4	03/01/90	03/31/90	1	1,478
9000097	BR9065	F191		313B	317F	PTAC1	03/01/90	03/31/90	1	1,482
9000097	BR9066	F191		313B	317F	PTAT2	03/01/90	03/31/90	1	2,053
9000097	BR9067	F191		313B	317F	PTGC1	03/01/90	03/31/90	1	1,476
9000097	BR9068	F191		313B	317F	ROAM4	03/01/90	03/31/90	1	1,412
9000097	BR9069	F191		313B	317F	SAUF1	03/01/90	03/31/90	1	1,707
9000097	BR9070	F191		313B	317F	SBIO1	03/01/90	03/31/90	1	1,474
9000097	BR9071	F191		313B	317F	SGNW3	03/01/90	03/31/90	1	1,480
9000097	BR9072	F191		313B	317F	SISW1	03/01/90	03/31/90	1	1,478
9000097	BR9073	F191		313B	317F	SMKF1	03/01/90	03/31/90	1	1,482
9000097	BR9074	F191		313B	317F	SPGF1	03/01/90	03/31/90	1	2,200
9000097	BR9075	F191		313B	317F	SRST2	03/01/90	03/28/90	1	1,984
9000097	BR9076	F191		313B	317F	STDM4	03/01/90	03/31/90	1	1,474
9000097	BR9077	F191		313B	317F	SVLS1	03/01/90	03/31/90	1	1,474
9000097	BR9078	F191		313B	317F	TPLM2	03/01/90	03/31/90	1	2,214
9000097	BR9079	F191		313B	317F	TTIW1	03/01/90	03/31/90	1	1,478
9000097	BR9080	F191		313B	317F	UJAP2	03/01/90	03/31/90	1	1,466

[redacted]000097	BR9081	F191	313B	317F	VENF1	03/01/90	03/31/90	1	2,217
9000097	BR9082	F191	313B	317F	WPOW1	03/01/90	03/31/90	1	1,439

97 FILETYPE F191 TRACK NO. PROJECT IDENTIFICATION

900005
97

BR8993-9010

	DATE	INIT.	TAPE OR DISK DSN	NO. FILES	LRECL	BLK SIZE	NO. RECORDS
	05/01/90.	CMH	A01172 9TRK, NL, 1600bpi, ascii	1	120	4080	273,428
PE	5-11-90	PJM	W04079 *	1	120	4800	273,460
TAPE							
DISK							
K							
K							
2							
ALIZED							

RTED TO PRINCIPAL INVESTIGATOR:

* = NO LABEL.

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

RACKS DELETED, FIELDS DELETED, ETC.)

D191P

D. 90000 97 FILETYPE F191 TRACK NO. BR9011 – 9030 PROJECT IDENTIFICATION

	DATE	INIT.	TAPE OR DISK DSN	NO. FILES	LRECL	BLK SIZE	NO. RECORDS
	05/01/90	CMH	A01173 9TRK, NL, 1600bpi, ascii	1	120	4080	137,134
APE	5-18-90	FJM	W07561 *	1	120	4800	137,742
TAPE							
DISK							
EK							
CK							
022							
NALIZED							

ORTED TO PRINCIPAL INVESTIGATOR: *. = NO LABEL

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

TRACKS DELETED, FIELDS DELETED, ETC.)

O. 91 FILETYPE F191 TRACK NO. PROJECT IDENTIFICATION

90 000 [redacted]

BR9031-9082

	DATE	INIT.	TAPE OR DISK DSN	NO. FILES	LRECL	BLK SIZE	NO. RECORDS
	05/01/90	CMH	A01174 9TRK, NL, 1600bpi, ascii	1	120	4080	172,584
APE	5-30-90	FJM	W.Ø9234, NL	1	120	4800	172,612
TAPE							
DISK							
EK							
CK							
022							
NALIZED							

ORTED TO PRINCIPAL INVESTIGATOR:

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

TRACKS DELETED, FIELDS DELETED, ETC.)

ADP TAPE/FILES REQUEST FORM

USER NAME	PHONE #	ORG/TASK #	DATE SUBMITTED	DATE DUE	BIN #
Cliff Hartley	673-5636	EG1200 6N3AH9	05/01/90	ASAP	09

EQUIPMENT TO BE USED AND FUNCTION TO BE PREFORMED

Please scan tape

INPUT MEDIUM
PAPER CARD DISK (TAPE)
DISKETTE OTHER(SPECIFY)

OUTPUT MEDIUM
CARD DISK (PRINT) TAPE PLOT
DISKETTE OTHER(SPECIFY)

TAPE/DISKETTE INFORMATION

	TAPE #/ DISKETTE	SLOT #	TRK	DENSITY	PARITY	LABEL TYPE	RECORD TYPE	RECORD LENGTH	MAX. BLOCK SIZE	# OF FILES
INPUT	A01172		9	1600					4080	1
	SECTOR SIZE	EXCHANGE TYPE	CODE: ASCII EBCDIC BCD SDF OTHER(SPECIFY)				DATA SET NAME			PURGE DATE
	TAPE #/ DISKETTE	SLOT #	TRK	DENSITY	PARITY	LABEL TYPE	RECORD TYPE	RECORD LENGTH	MAX. BLOCK SIZE	# OF FILES
	SECTOR SIZE	EXCHANGE TYPE	CODE: ASCII EBCDIC BCD SDF OTHER(SPECIFY)				DATA SET NAME			PURGE DATE
	TAPE #/ DISKETTE	SLOT #	TRK	DENSITY	PARITY TYPE	LABEL TYPE	RECORD TYPE	RECORD LENGTH	MAX. BLOCK SIZE	# OF FILES
OUTPUT										
	SECTOR SIZE	EXCHANGE TYPE	CODE: ASCII EBCDIC BCD SDF OTHER(SPECIFY)				DATA SET NAME			PURGE DATE

SPECIAL INSTRUCTIONS

Please return tape A01172 to Bin 09

ESTIMATED EXECUTION TIME

D731 USE ONLY

JOB #	DATE JOB COMPLETED	START TIME	END TIME	PRIORITY	DEVICES USED, NUMBER OF TAPE MOUNTS, LINES PRINTED DISKETTES USED, CARDS PUNCHED, CARDS KEYVERIFIED
9005010Z	5-1-90	14:40	14:48	C	COMPCETED BY JS

COMMENTS

ADP FACILITIES REQUEST FORM

USER NAME	PHONE #	ORG/TASK #	DATE SUBMITTED	DATE DUE	BIN #
Cliff Hartley	473-5636	EG1200 8N3AH9	05/01/90	ASAP	09

EQUIPMENT TO BE USED AND FUNCTION TO BE PREFORMED

Please scan tape

INPUT MEDIUM
PAPER CARD DISK (TAPE)
DISKETTE OTHER(SPECIFY)

OUTPUT MEDIUM
CARD DISK (PRINT) TAPE PLOT
DISKETTE OTHER(SPECIFY)

TAPE/DISKETTE INFORMATION

	(TAPE #/ DISKETTE)	SLOT #	TRK	DENSITY	PARITY	LABEL TYPE	RECORD TYPE	RECORD LENGTH	MAX. BLOCK SIZE	# OF FILES
INPUT	A01173		9	1600					4080	1
	SECTOR SIZE	EXCHANGE TYPE	CODE: ASCII EBCDIC BCD SDF OTHER(SPECIFY)				DATA SET NAME			PURGE DATE
	TAPE #/ DISKETTE	SLOT #	TRK	DENSITY	PARITY	LABEL TYPE	RECORD TYPE	RECORD LENGTH	MAX. BLOCK SIZE	# OF FILES
	SECTOR SIZE	EXCHANGE TYPE	CODE: ASCII EBCDIC BCD SDF OTHER(SPECIFY)				DATA SET NAME			PURGE DATE
	TAPE #/ DISKETTE	SLOT #	TRK	DENSITY	PARITY TYPE	LABEL TYPE	RECORD TYPE	RECORD LENGTH	MAX. BLOCK SIZE	# OF FILES
OUTPUT										
	SECTOR SIZE	EXCHANGE TYPE	CODE: ASCII EBCDIC BCD SDF OTHER(SPECIFY)				DATA SET NAME			PURGE DATE

SPECIAL INSTRUCTIONS

Please return tape A01173 to Bin 09

ESTIMATED EXECUTION TIME

D731 USE ONLY

JOB #	DATE JOB COMPLETED	START TIME	END TIME	PRIORITY	DEVICES USED, NUMBER OF TAPE MOUNTS, LINES PRINTED DISKETTES USED, CARDS PUNCHED, CARDS KEYVERIFIED
90050103	5-1-90	14:50	14:54	C	COMPLETED BY J.S.

COMMENTS

USER NAME	PHONE #	ORG/TASK #	DATE SUBMITTED	DATE DUE	BIN #
Cliff Hartley	473-5636	EG1200 6N3AH9	05/01/90	ASAP	09

EQUIPMENT TO BE USED AND FUNCTION TO BE PREFORMED

Please scan tape

INPUT MEDIUM
PAPER CARD DISK (TAPE)
DISKETTE OTHER(SPECIFY)

OUTPUT MEDIUM
CARD DISK (PRINT) TAPE PLOT
DISKETTE OTHER(SPECIFY)

TAPE/DISKETTE INFORMATION

	TAPE #/ DISKETTE	SLOT #	TRK	DENSITY	PARITY	LABEL TYPE	RECORD TYPE	RECORD LENGTH	MAX. BLOCK SIZE	# OF FILES
INPUT	A01174		9	1600					4080	1
	SECTOR SIZE	EXCHANGE TYPE	CODE: ASCII EBCDIC BCD SDF OTHER(SPECIFY)				DATA SET NAME			PURGE DATE
	TAPE #/ DISKETTE	SLOT #	TRK	DENSITY	PARITY	LABEL TYPE	RECORD TYPE	RECORD LENGTH	MAX. BLOCK SIZE	# OF FILES
	SECTOR SIZE	EXCHANGE TYPE	CODE: ASCII EBCDIC BCD SDF OTHER(SPECIFY)				DATA SET NAME			PURGE DATE
	TAPE #/ DISKETTE	SLOT #	TRK	DENSITY	PARITY TYPE	LABEL TYPE	RECORD TYPE	RECORD LENGTH	MAX. BLOCK SIZE	# OF FILES
OUTPUT	SECTOR SIZE	EXCHANGE TYPE	CODE: ASCII EBCDIC BCD SDF OTHER(SPECIFY)				DATA SET NAME			PURGE DATE

SPECIAL INSTRUCTIONS

Please return tape A01174 to Bin 09

ESTIMATED EXECUTION TIME

D731 USE ONLY

JOB #	DATE JOB COMPLETED	START TIME	END TIME	PRIORITY	DEVICES USED, NUMBER OF TAPE MOUNTS, LINES PRINTED DISKETTES USED, CARDS PUNCHED, CARDS KEYVERIFIED
90501@4	5-1-90	14:55	14:59	C	COMPLETED BY J.S.

COMMENTS

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

April 30, 1990

F1804-02
DB3:90-0153
SPN:idm

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

Dear Mr. Picciolo:

Enclosed are the March 1990, 9TK, 1600 BPI, archive tapes, recorded in the 191 tape format. The enclosure contains a list of stations and the inclusive dates that are on each tape.

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

Sincerely,

Sallie P. Nolan

Sallie P. Nolan
ADP Manager

Enclosures

90 00097
A01172
A01173
A01174

Attachment

Tape 1:	32302	03019000-03319023
	41001	03019000-03319023
	41002	03279021-03319023
	41006	03019000-03319023
	41008	03019000-03319023
	41009	03019000-03319023
	41010	03019000-03319023
	42001	03019000-03319023
	42002	03019000-03319023
	42003	03019000-03319023
	42007	03019000-03319023
	42015	03019000-03319023
	42016	03019000-03319023
	42018	03019000-03229000
	44004	03019000-03319023
	44005	03019000-03319023
	44007	03019000-03319023
	44008	03019000-03319023 -18
Tape 2:	44009	03019000-03319023
	44011	03019000-03319023
	44013	03019000-03319023
	46001	03019000-03239003
	46003	03019000-03319023
	46005	03019000-03319023
	46006	03019000-03319023
	46010	03019000-03319023
	46011	03019000-03319023
	46012	03019000-03129019
	46013	03019000-03319023
	46014	03019000-03319023
	46022	03019000-03319023
	46025	03019000-03319023
	46026	03019000-03319023
	46027	03019000-03319023
	46028	03019000-03319023
	46030	03019000-03269013
	46035	03019000-03319023
	46040	03019000-03319023 -20
Tape 3:	46041	03019000-03319023
	46042	03019000-03319023
	51001	03019000-03319023
	51002	03019000-03319023
	51003	03019000-03319023
	51004	03019000-03319023

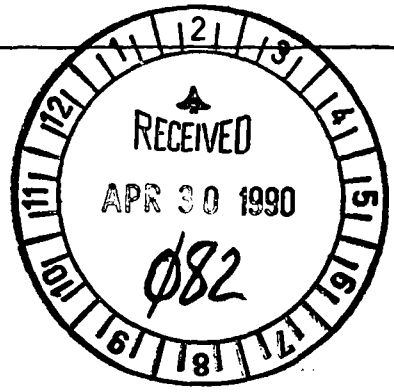
ALSN6 03019000-03319023
BURL1 03019000-03319023
BUZM3 03019000-03319023
CARO3 03019000-03319023
CHLV2 03019000-03319023
CLKN7 03019000-03319023
CSBF1 03019000-03319023
DBLN6 03019000-03319023
DESW1 03019000-03319023
DISW3 03019000-03319023
DPIA1 03019000-03319023
DSLN7 03019000-03319023
ENIP2 03019000-03319023
FARP2 03019000-03319023
FBIS1 03019000-03319023
FFIA2 03019000-03319023
FPSN7 03019000-03319023
GBCL1 03019000-03319023
GDIL1 03019000-03319023
GLLN6 03019000-03319023
IOSN3 03019000-03319023
LKWF1 03019000-03319023
MDRM1 03019000-03319023
MISM1 03019000-03319023
MLRF1 03019000-03319023
MPCL1 03019000-03319023
NWPO3 03019000-03319023
PILM4 03019000-03319023
PTAC1 03019000-03319023
PTAT2 03019000-03319023
PTGC1 03019000-03319023
ROAM4 03019000-03319023
SAUF1 03019000-03319023
SBIO1 03019000-03319023
SGNW3 03019000-03319023
SISW1 03019000-03319023
SMKF1 03019000-03319023
SPGF1 03019000-03319023
SRST2 03019000-03319023
STDM4 03019000-03319023
SVLS1 03019000-03319023
TPLM2 03019000-03319023
TTIW1 03019000-03319023
UJAP2 03019000-03319023
VENF1 03019000-03319023
WPOW1 03019000-03319023

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

Record type "1" (position 10) is Descriptive. The file, platform, location, sampling and originator are described.
Record type "2" is Environmental Data. File keys are included along with meteorology and wave conditions.
Record type "3" is Wave Spectra Data.
Record type "4" is Subsurface Temperature Data.
Record type "5" is other Subsurface Data.
Record type "6" is Co and Quad Spectra for Directional Waves.
Record type "7" is Angular Fourier Coefficients for Directional Waves.
Record type "8" is Directional Wave Data.
Record type "9" is Continuous Wind Measurements.

2. GIVE BRIEF DESCRIPTION OF FILE ORGANIZATION



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

5. RECORDING MODE ☐ BCD ☐ BINARY ☒ ASCII ☐ EBCDIC ☐ _____

6. NUMBER OF TRACKS (CHANNELS) ☐ SEVEN ☒ NINE ☐ _____

7. PARITY ☒ ODD ☐ EVEN

8. DENSITY ☐ 200 BPI ☒ 1600 BPI ☐ 556 BPI ☐ 800 BPI ☐ _____

9. LENGTH OF INTER-RECORD GAP (IF KNOWN) ☒ 3/4 INCH ☐ _____

10. END OF FILE MARK ☒ OCTAL 17 ☐ _____

11. PASTE-ON-PAPER LABEL DESCRIPTION *(INCLUDE ORIGINATOR NAME AND SOME LAY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER)*

12. PHYSICAL BLOCK LENGTH IN BYTES
4080

13. LENGTH OF BYTES IN BITS
8

NOAA FORM 24-13

RECORD FORMAT DESCRIPTION

RECORD NAME File Name: Meteorology and Wave Spectra (File Type "191")

14. FIELD NAME	15. POSITION FROM-1 MEASURED IN (e.g., bits, bytes)	16. LENGTH NUMBER	16. LENGTH UNITS	17. ATTRIBUTES	18. USE AND MEANING
DESCRIPTIVE HEADER RECORD					
FILE TYPE	1	3	Bytes	A3	"191" (constant)
FILE DATE	4	6	Bytes	3I2	Yr.,Mo.,Day of file generation
RECORD TYPE	10	1	Byte	A1	"1" (Descriptive header record)
STATION	11	6	Bytes	A6	Unique name of observation point
OBSERVED DATE	17	6	Bytes	3I2	Year, Month, Day (GMT)
OBSERVED TIME	23	4	Bytes	2I2	Hours, Minutes (GMT)
LATITUDE	27	6	Bytes	3I2	Degrees, Minutes, Seconds
LAT. HEMISPHERE	33	1	Byte	A1	"N" or "S" Hemisphere
LONGITUDE	34	7	Bytes	I3, 2I2	Degrees, Minutes, Seconds
LON. HEMISPHERE	41	1	Byte	A1	"E" OR "W" HEMISPHERE
BOTTOM DEPTH	42	5	Bytes	I5	Meters to tenths
MAGNETIC VARIATION	47	4	Bytes	I4	Whole degrees from true north (signed value)
BUOY HEADING*	51	3	Bytes	I3	Whole degrees from true north
WAVE SAMPLING RATE*	54	4	Bytes		I4Original measurements per minute to tenths
WAVE SAMPLING DURATION*	58	4	Bytes	I4	Minutes to hundredths
WAVE TOTAL INTERVALS*	62	3	Bytes	I3	Number of frequency intervals
CHIEF SCIENTIST	65	20	Bytes		A20(optional)
INSTITUTION	85	20	Bytes	A20	Data source
WIND SAMPLING DURATION	105	3	Bytes	I3	Minutes to tenths
COMMENTS	108	13	Bytes		A13
*for buoy data only					RECORD LENGTH IS 120
ENVIRONMENTAL DATA RECORD					
FILE TYPE	1	3	Bytes	A3	"191" (constant)
FILE DATE	4	6	Bytes	3I2	Yr.,Mo.,Day of file generation
RECORD TYPE	10	1	Byte	A1	"2" (environmental data rec.)
STATION	11	6	Bytes	A6	Unique name of observation point
OBSERVED DATE	17	6	Bytes	3I2	Year, Month, Day (GMT)
OBSERVED TIME	23	4	Bytes		2I2Hours, Minutes (GMT)
ALTITUDE	27	3	Bytes	I3	Meteorology alt., meters to tenths
AIR TEMP	30	4	Bytes	I4	Temperature, Celsius to tenths
DEW POINT	34	4	Bytes		I4Temperature, Celsius to tenths
BAROMETER	38	5	Bytes	I5	Millibars to tenths (reduced to sea level)
WIND SPEED	43	4	Bytes	I4	Meters/sec. to hundredths
WIND DIRECTION	47	4	Bytes	I4	From true north, degrees to tenths
WEATHER	51	1	Byte	I1	Current weather (WMO Code 4501)
VISIBILITY	52	3	Bytes	I3	Nautical miles, to tenths

RECORD NAME File Type "191"

14. FIELD NAME	15. POSITION FROM -1 MEASURED IN _____ (e.g., bits, bytes)	16. LENGTH NUMBER	UNITS	17. ATTRIBUTES	18. USE AND MEANING
PRECIPITATION	55	4	Bytes	I4	Accumulation in millimeters
SOLAR RADIATION	59	3	Bytes	I3	Langleys/minute to hundredths wave length less than 3.6
SOLAR RADIATION	62	3	Bytes	I3	Langleys/minute to hundredths wave length from 4.0 to 50 microns
SIGNIFICANT WAVE HEIGHT *	65	3	Bytes	I3	Meters to tenths, corrected for low frequency noise, etc.
AVERAGE WAVE PERIOD *	68	3	Bytes	I3	Seconds to tenths
DOMINANT WAVE DIRECTION *	71	3	Bytes	I3	Direction of predominant waves in whole degrees from true N
HIGHEST CREST	74	3	Bytes	I3	Meters to tenths, from reference level
DEEPEST TROUGH SEA SURFACE	77	3	Bytes	I3	Meters to tenths, from reference level
TEMPERATURE SEA SURFACE	80	4	Bytes	I4	Temperature Celsius to hundredths
SALINITY	84	5	Bytes	I5	Parts per thousand to thousandths
CONDUCTIVITY	89	5	Bytes	I5	Millimhos/cm to thousandths
DOMINANT WAVE PERIOD	94	3	Bytes	I3	Seconds to tenths
MAXIMUM WAVE HEIGHT	97	3	Bytes	I3	Meters to tenths
MAXIMUM WAVE STEEPNESS	100	3	Bytes	I3	To be defined
WIND GUST	103	4	Bytes	I4	Meters/sec. to hundredths
WIND GUST(avg.pd.) AVERAGING PERIOD	107	2	Bytes	I2	Seconds
WIND GUST	109	4	Bytes	I4	Meters/sec. to hundredths
WIND GUST	113	2	Bytes	I2	Seconds
WIND SPEED(58 min. average)	115	3	Bytes	I3	Meters/sec. to tenths whole degrees
WIND DIRECTION(58 min. average)	118	3	Bytes	I3	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.					
WAVE SPECTRA DATA RECORD					
FILE TYPE	1	3	Bytes	A3	"191 (constant)
FILE DATE	4	6	Bytes	3I2	Yr.,Mo.,Day of file generation
RECORD TYPE	10	1	Byte	A1	"3"(Wave Spectra Data Record)
STATION	11	6	Bytes	A6	Unique name of observation point
OBSERVED DATE	17	6	Bytes	3I2	Year, Month, Day (GMT)
OBSERVED TIME	23	4	Bytes	2I2	Hours, Minutes (GMT)
INTERVALS PER DIRECTION	27	3	Bytes	I3	Zero for non-directional spectra, or total number of frequencies in this direction

RECORD NAME File Type "191"

14. FIELD NAME	15. POSITION FROM-1 MEASURED IN (e.g. bits, bytes)	16. LENGTH NUMBER	UNITS	17. ATTRIBUTES	18. USE AND MEANING
WAVE SPECTRA DATA RECORD (cont'd)					
DIRECTION	30	4	Bytes	I4	Blank for non-directional spectra, or degrees to tenths from true N for frequencies on this record
COUNT	34	1	Byte	I1	Number of frequencies on this record
DATA	35	70	Bytes	5(2I4,I6)	Up to 5 Frequency, Resolution, Density fields. Null fields blank
Frequency	35,49,63 77,91	4	Bytes	I4	Center frequency of interval in Hertz to thousandths
Resolution	39,53,67 81,95	4	Bytes	I4	Resolution of interval in Hertz to ten-thousandths
Density	43,57,71 85,99	6	Bytes	I6	Spectral Density of interval in m^2/Hz to thousandths
BLANKS	105	16	Bytes	16X	Fill the fixed length record
SUBSURFACE TEMPERATURE DATA RECORD					
FILE TYPE	1	3	Bytes	A3	"191" (constant)
FILE DATE	4	6	Bytes	3I2	Yr.,Mo.,Day of file generation
RECORD TYPE	10	1	Byte	A1	"4" (Subsurface Temperature Data Record)
STATION	11	6	Bytes	A6	Unique name of observation point
OBSERVED DATE	17	6	Bytes	3I2	Year, Month, Day (GMT)
OBSERVED TIME	23	4	Bytes	2I2	Hours, Minutes (GMT)
DATA	27	90	Bytes	10(I5,I4)	Up to 10 Depth and temperature fields
Depth	27,36,45 54,63,72 81,90,99 108	5	Bytes	I5	Obs. level, meters to tenths
Temperature	32,41,50 59,68,77 86,95,104 113	4	Bytes	I4	Degrees Celsius to hundredths (include Sea Surface temperature)
BLANKS	117	4	Bytes	4X	Fill the fixed length record
SUBSURFACE DATA RECORD					
FILE TYPE	1	3	Bytes	A3	"191" (constant)
FILE DATE	4	6	Bytes	3I2	Yr.,Mo.,Day of file generation
RECORD TYPE	10	1	Byte	A1	"5" (Subsurface Data Record)
STATION	11	6	Bytes	A6	Unique name of observation point
OBSERVED DATE	17	6	Bytes	3I2	Year, Month, Day (GMT)
OBSERVED TIME	23	4	Bytes	2I2	Hours, Minutes (GMT)

RECORD NAME File Type "191"

14. FIELD NAME	15. POSITION FROM-1 MEASURED IN (e.g. bits, bytes)	16. LENGTH NUMBER	16. LENGTH UNITS	17. ATTRIBUTES	18. USE AND MEANING
SUBSURFACE DATA RECORD (cont'd)					
DATA	27	90	Bytes	3(I5,I5,I5,I5,I5,I5)	Up to 3 Depth, U Component, V Component, Pressure, Conductivity, Salinity fields
Depth	27,57,87	5	Bytes	I5	Obs. Level, meters to tenths
U Component	32,62,92	5	Bytes	I5	East vector in cm/sec. to tenths
V Component	37,67,97	5	Bytes	I5	True north vector in cm/sec. to tenths
Pressure	42,72,102	5	Bytes	I5	Kg./cm^2 to hundredths
Conductivity	47,77,107	5	Bytes	I5	Millimhos/cm to thousandths
Salinity	52,82,112	5	Bytes	I5	Parts per 1000 to thousandths
BLANKS	117	4	Bytes	4X	Fill the fixed length record

RECORD FORMAT DESCRIPTION

RECORD NAME File Type "191"

14. FIELD NAME	15. POSITION FROM-1 MEASURED IN (e.g., bits, bytes)	16. LENGTH NUMBER	16. LENGTH UNITS	17. ATTRIBUTES	18. USE AND MEANING
CO AND QUAD SPECTRA FOR DIRECTIONAL WAVES					
FILE TYPE	1	3	Bytes	I3	Always "191"
FILE DATE	4	6	Bytes	3I2	Yr.,Mo.,Day of file generation
RECORD TYPE	10	1	Byte	A1	Always "6"
STATION NUMBER	11	6	Bytes	A6	Unique name of observation point
OBSERVED DATE	17	6	Bytes	3I2	Year, month, day (GMT)
OBSERVED TIME	23	4	Bytes	2I2	Hours, minutes (GMT)
FREQUENCY	27	4	Bytes	I4	Center frequency of interval in Hz to .001
SPECTRAL RESOLUTION	31	5	Bytes	I5	Spectral resolution of this frequency band in Hz to ten thousandths
CO-SPECTRA C_{11}	36	6	Bytes	Signed Integers I6	Up to 9 uncorrected values of Co and Quad spectra in meters squared/Hz. The order these spectra are presented is: C_{11},C_{22},C_{33},C_{12},Q_{12}, C_{13}, Q_{13}, C_{23}, and Q_{23}
EXPONENT	42	2	Bytes	I2	Where subscripts are defined as follows:
CO-SPECTRA C_{22}	44	6	Bytes	I6	1. Heave
EXPONENT	50	2	Bytes	I2	2. E-W Slope
CO-SPECTRA C_{33}	52	6	Bytes	I6	3. N-S Slope
EXPONENT	58	2	Bytes	I2	
CO-SPECTRA C_{12}	60	6	Bytes	I6	
EXPONENT	66	2	Bytes	I2	If the exponent is less than -9
QUAD-SPECTRA Q_{12}	68	6	Bytes	I6	the exponent and its associated
EXPONENT	74	2	Bytes	I2	spectra should be zero
CO-SPECTRA C_{13}	76	6	Bytes	I6	
EXPONENT	82	2	Bytes	I2	
QUAD-SPECTRA Q_{13}	84	6	Bytes	I6	
EXPONENT	90	2	Bytes	I2	
CO-SPECTRA C_{23}	92	6	Bytes	I6	
EXPONENT	98	2	Bytes	I2	
QUAD-SPECTRA Q_{23}	100	6	Bytes	I6	
EXPONENT	106	2	Bytes	I2	
$C_{22} - C_{33}$	108	6	Bytes	I6	
EXPONENT	114	2	Bytes	I2	
BLANKS	116	5	Bytes	5x	

RECORD FORMAT DESCRIPTION

RECORD NAME File Type "191"

14. FIELD NAME	15. POSITION FROM-1 MEASURED IN _____ (e.g., bits, bytes)	16. LENGTH NUMBER	16. LENGTH UNITS	17. ATTRIBUTES	18. USE AND MEANING
ANGULAR COEFFICIENTS FOR DIRECTIONAL WAVES					
FILE TYPE	1	3	Bytes	I3	Always "191"
FILE DATE	4	6	Bytes	3I2	Yr.,Mo.,Day of file generation
RECORD TYPE	10	1	Byte	A1	Always "7"
STATION NUMBER	11	6	Bytes	A6	same as "1"
OBSERVED DATE	17	6	Bytes	3I2	Year, month, day (GMT)
OBSERVED TIME	23	4	Bytes	2I2	Hour, minutes (GMT)
FREQUENCY	27	4	Bytes	I4	Center frequency of interval Hz to .001
SPECTRAL RESOLUTION	31	5	Bytes	I5	Spectral resolution of this frequency band in Hz to ten thousandths
ANGULAR FOURIER	36	6	Bytes	signed integers I6	Up to 9 corrected values of the angular fourier coefficients in meters^2/Hz. The order of these coefficients is: $a_0, a_1, b_1, a_2, b_2, a_3, b_3, a_4, b_4$
EXPONENT	42	2	Bytes	I2	
ANGULAR FOURIER COEFFICIENT	44	6	Bytes	I6	
EXPONENT	50	2	Bytes	I2	
ANGULAR FOURIER COEFFICIENT	52	6	Bytes	I6	
EXPONENT	58	2	Bytes	I2	
ANGULAR FOURIER COEFFICIENT	60	6	Bytes	I6	
EXPONENT	66	2	Bytes	I2	
ANGULAR FOURIER COEFFICIENT	68	6	Bytes	I6	
EXPONENT	74	2	Bytes	I2	
ANGULAR FOURIER COEFFICIENT	76	6	Bytes	I6	
EXPONENT	82	2	Bytes	I2	
ANGULAR FOURIER COEFFICIENT	84	6	Bytes	I6	
EXPONENT	90	2	Bytes	I2	
ANGULAR FOURIER COEFFICIENT	92	6	Bytes	I6	
EXPONENT	98	2	Bytes	I2	
ANGULAR FOURIER COEFFICIENT	100	6	Bytes	I6	
EXPONENT	106	2	Bytes	I2	
MEAN WAVE DIRECTION	108	3	Bytes	I3	Mean wave direction given by arctan b_1/a_1 in whole degrees from true north (opt. entry)
BLANKS	111	10	Bytes	10X	Blanks

RECORD FORMAT DESCRIPTION

RECORD NAME File Type "191"

14. FIELD NAME	15. POSITION FROM-1 MEASURED IN (e.g., bits, bytes)	16. LENGTH NUMBER	16. LENGTH UNITS	17. ATTRIBUTES	18. USE AND MEANING
DIRECTIONAL WAVE DATA RECORD					
FILE TYPE	1	3	Bytes	A3	"191" (Constant)
FILE DATE	4	6	Bytes	3I2	Yr., Mo., Day of file generation
RECORD TYPE	10	1	Byte	A1	"8" (Directional Wave Data Record)
STATION	11	6	Bytes	A6	Inique name of observation point
OBSERVED DATE	17	6	Bytes	3I2	Year, Month, Day (GMT)
OBSERVED TIME	23	4	Bytes	2I2	Hours, Minutes (GMT)
COUNT	27	1	Byte	I1	Number of Frequencies on this Record (=1,2,or3)
FREQUENCY	28	4	Bytes	I4	Center of Band in HZ to Ten-Thousandths
RESOLUTION (BANDWIDTH)	32	4	Bytes	I4	Bandwidth in HZ to Ten-Thousandths
R1 (see below)	36	4	Bytes	I4	Recorded to Nearest Hundredth
R2 (see below)	40	4	Bytes	I4	Recorded to Nearest Hundredth
A1 (see below)	44	4	Bytes	I4	Recorded in Degrees to Tenths
A2 (see below)	48	4	Bytes	I4	Recorded in Degrees to Tenths
C11S (see below)	52	6	Bytes	I6	Recorded in Meters Squared HZ to Thousandths
FREQUENCY	58	4	Bytes	I4	Center of Band in HZ to Ten-Thousandths
RESOLUTION (BANDWIDTH)	62	4	Bytes	I4	Bandwidth in HZ to Ten-Thousandths
R1 (see below)	66	4	Bytes	I4	Recorded to Nearest Hundredth
R2 (see below)	70	4	Bytes	I4	Recorded to Nearest Hundredth
A1 (see below)	74	4	Bytes	I4	Recorded in Degrees to Tenths
A2 (see below)	78	4	Bytes	I4	Recorded in Degrees to Tenths
C11S (see below)	82	6	Bytes	I6	Recorded in Meters Squared/HZ to Thousandths
FREQUENCY	88	4	Bytes	I4	Center of Band in HZ to Ten-Thousandths
RESOLUTION (BANDWIDTH)	92	4	Bytes	I4	Bandwidth in HZ to Ten-Thousandths
R1 (see below)	96	4	Bytes	I4	Recorded to Nearest Hundredth
R2 (see below)	100	4	Bytes	I4	Recorded to Nearest Hundredth
A1 (see below)	104	4	Bytes	I4	Recorded to Degrees to Tenths
A2 (see below)	108	4	Bytes	I4	Recorded in Degrees to Tenths
C11S (see below)	112	6	Bytes	I6	Recorded in Meters Squared/HZ to Thousandths
BLANKS	118	3	Bytes	3X	Fill the fixed lengths record

NOTE: DIRECTIONAL WAVE SPECTRA = S(F,A)*D(F,A), in which F = FREQ(HZ), A = Azimuth Angle measured clockwise from North to direction wave is from. D(F,A) = (1/PI)*((1/2)+R1*COS(A-A1)+R2*COS(2*(A-A2))), in which R1 and R2 are dimensionless and A1 and A2 are respectively mean and principal wave directions. In terms of Longuet-Higgins Fourier Coefficients, R1 = (SQRT(A1*A1+B1*B1))/A0, R2 = (SQRT(A2*A2+B2*B2))/A0, A1 = ARCTAN(B1,A1), A2 = (1/2)ARCTAN(B2,A2) + 0 or PI. C11S(M*M/HZ) = (C22+C33)/(K*K) in which K, the propagation constant, is the solution to W*W = G*K*TANH(K*D), in which W = 2*PI*F, G = 9.806 M/(SEC*SEC), and D is mean water depth in meters.

NOAA FORM 24-13

RECORD FORMAT DESCRIPTION

RECORD NAME File Type "191"

14. FIELD NAME	15. POSITION FROM-1 MEASURED IN _____ (e.g., bits, bytes)	16. LENGTH NUMBER	16. LENGTH UNITS	17. ATTRIBUTES	18. USE AND MEANING
CONTINUOUS WIND MEASUREMENT					
FIELD TYPE	1	3	Bytes	I3	Always "191"
FILE DATE	4	6	Bytes	3I2	Yr.,Mo.,Day of file generation
RECORD TYPE	10	1	Byte	A1	Always "9"
STATION NUMBER	11	6	Bytes	A6	See Record '1'
REPORT DATE	17	6	Bytes	3I2	Year, Month, Day (UTC)
REPORT TIME	23	4	Bytes	2I2	Hour, Minutes (UTC)
SPEED AVERAGING METHOD	27	1	Byte	I1	1=Vector, 2=Scalar
STANDARD DEVIATION OF HOURLY SPEED	28	3	Bytes	I3	M/S to Tenths
STANDARD DEVIATION OF HOURLY DIRECTION[1]	31	4	Bytes	I4	Whole Degrees
HOURLY PEAK WIND	35	3	Bytes	I3	M/S to Tenths
DIRECTION OF HOURLY PEAK	38	3	Bytes	I3	Whole Degrees
MINUTE OF HOURLY PEAK	41	2	Bytes	I2	Minutes (UTC)
END OF ACQUISITION TIME	43	4	Bytes	2I2	Hour, Minutes (UTC)
FIRST AVERAGE DIRECTION[2]	47	3	Bytes	I3	Whole Degrees
FIRST AVERAGE SPEED	50	3	Bytes	I3	M/S to Tenths
SECOND AVERAGE DIRECTION	53	3	Bytes	I3	Whole Degrees
SECOND AVERAGE SPEED	56	3	Bytes	I3	M/S to Tenths
THIRD AVERAGE DIRECTION	59	3	Bytes	I3	Whole Degrees
THIRD AVERAGE SPEED	62	3	Bytes	I3	M/S to Tenths
FOURTH AVERAGE DIRECTION	65	3	Bytes	I3	Whole Degrees
FOURTH AVERAGE SPEED	68	3	Bytes	I3	M/S to Tenths
FIFTH AVERAGE DIRECTION	71	3	Bytes	I3	Whole Degrees
FIFTH AVERAGE SPEED	74	3	Bytes	I3	M/S to Tenths
SIXTH AVERAGE DIRECTION	77	3	Bytes	I3	Whole Degrees
SIXTH AVERAGE SPEED	80	3	Bytes	I3	M/S to Tenths

RECORD FORMAT DESCRIPTION

RECORD NAME _____

14. FIELD NAME	15. POSITION FROM-1 MEASURED IN _____ (e.g., bits, bytes)	16. LENGTH NUMBER	16. LENGTH UNITS	17. ATTRIBUTES	18. USE AND MEANING
CONTINUOUS WIND MEASUREMENT (Cont'd)					
[1]Expansion Parameter.					
[2]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 period ending immediately before the End of Acquisition time. The remaining sets go back in time.					
For example, if End of Acquisition is 10:25, then the First Average will be for the time period 10:10 to 10:19, and the Second Average will be for the period 10:00 to 10:09. If End of Acquisition is 10:30, then the First Average will be for the time period 10:20 to 10:29.					

Password:

accNo	fleA	refNo	proj	inst	ship	startDate	cruise	catId
9000097	F291	BR8993	9999	313B	317F	1990/03/01	32302	191156
9000097	F291	BR8994	9999	313B	317F	1990/03/01	41001	191157
9000097	F291	BR8995	9999	313B	317F	1990/03/27	41002	191158
9000097	F291	BR8996	9999	313B	317F	1990/03/01	41006	191159
9000097	F291	BR8997	9999	313B	317F	1990/03/01	41008	191160
9000097	F291	BR8998	9999	313B	317F	1990/03/01	41009	191161
9000097	F291	BR8999	9999	313B	317F	1990/03/01	41010	191162
9000097	F291	BR9000	9999	313B	317F	1990/03/01	42001	191163
9000097	F291	BR9001	9999	313B	317F	1990/03/01	42002	191164
9000097	F291	BR9002	9999	313B	317F	1990/03/01	42003	191165
9000097	F291	BR9003	9999	313B	317F	1990/03/01	42007	191166
9000097	F291	BR9004	9999	313B	317F	1990/03/01	42015	191167
9000097	F291	BR9005	9999	313B	317F	1990/03/01	42016	191168
9000097	F291	BR9006	9999	313B	317F	1990/03/01	42018	191169
9000097	F291	BR9007	9999	313B	317F	1990/03/01	44004	191170
9000097	F291	BR9008	9999	313B	317F	1990/03/01	44005	191171
9000097	F291	BR9009	9999	313B	317F	1990/03/01	44007	191172
9000097	F291	BR9010	9999	313B	317F	1990/03/01	44008	191173
9000097	F291	BR9011	9999	313B	317F	1990/03/01	44009	191174
9000097	F291	BR9012	9999	313B	317F	1990/03/01	44011	191175
9000097	F291	BR9013	9999	313B	317F	1990/03/01	44013	191176
9000097	F291	BR9014	9999	313B	317F	1990/03/01	46001	191177
9000097	F291	BR9015	9999	313B	317F	1990/03/01	46003	191178
9000097	F291	BR9016	9999	313B	317F	1990/03/01	46005	191179
9000097	F291	BR9017	9999	313B	317F	1990/03/01	46006	191180
9000097	F291	BR9018	9999	313B	317F	1990/03/01	46010	191181
9000097	F291	BR9019	9999	313B	317F	1990/03/01	46011	191182
9000097	F291	BR9020	9999	313B	317F	1990/03/01	46012	191183
9000097	F291	BR9021	9999	313B	317F	1990/03/01	46013	191184
9000097	F291	BR9022	9999	313B	317F	1990/03/01	46014	191185
9000097	F291	BR9023	9999	313B	317F	1990/03/01	46022	191186
9000097	F291	BR9024	9999	313B	317F	1990/03/01	46025	191187
9000097	F291	BR9025	9999	313B	317F	1990/03/01	46026	191188
9000097	F291	BR9026	9999	313B	317F	1990/03/01	46027	191189
9000097	F291	BR9027	9999	313B	317F	1990/03/01	46028	191190
9000097	F291	BR9028	9999	313B	317F	1990/03/01	46030	191191
9000097	F291	BR9029	9999	313B	317F	1990/03/01	46035	191192
9000097	F291	BR9030	9999	313B	317F	1990/03/01	46040	191193
9000097	F291	BR9031	9999	313B	317F	1990/03/01	46041	191194
9000097	F291	BR9032	9999	313B	317F	1990/03/01	46042	191195
9000097	F291	BR9033	9999	313B	317F	1990/03/01	51001	191196
9000097	F291	BR9034	9999	313B	317F	1990/03/01	51002	191197
9000097	F291	BR9035	9999	313B	317F	1990/03/01	51003	191198
9000097	F291	BR9036	9999	313B	317F	1990/03/01	51004	191199
9000097	F291	BR9037	9999	313B	317F	1990/03/01	ALSN6	191200
9000097	F291	BR9038	9999	313B	317F	1990/03/01	BURL1	191201
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