8900272

12/04/89

TO: E/OC12 - Branch Chief

E/OC11 - P. Hadsell

FROM: E/OC13 - A. Picciolo

SUBJECT: Data Transfer

The following listed data sets have been transferred as indicated:

Wind/Wave Spectra (F191)

Acc: 8900272 Ref: BR8432 - BR8449 18 sta. 254,044 rec.

NOAA-NDBC

(September 1989)

Wind/Wave Spectra (F191)

Acc: 8900272 Ref: BR8450 - BR8478 19 sta. 227,396 rec.

NOAA-NDBC

(September 1989)

Wind/Wave Spectra (F191)

Acc: 8900272 Ref: BR8479 - BR8528 50 sta. 143,164 rec.

NOAA-NDBC

(September 1989)

ACCESS NUMBER	REF NUMBER	FILE TYPE	PROJ CODE	INST	PLAT	CRUISE NO	CRUISE START	CRUISE END	NUM STA	NUM REC
8900272	BR8432	F191		313B	317F	32302	09/01/89	09/30/89	1	5,148
8900272	BR8433	F191		313B	317F	41001	09/01/89	09/30/89	1	8,352
8900272	BR8434	F191		313B	317F	41002	09/01/89	09/30/89	1	7,471
8900272	BR8435	F191		313B	317F	41006	09/01/89	09/07/89	1	1,750
8900272	BR8436	F191		313B	317F	41008	09/01/89	09/30/89	1	42,840
8900272	BR8437	F191		313B	317F	41009	09/01/89	09/30/89	1	13,998
8900272	BR8438	F191		313B	317F	41010	09/01/89	09/30/89	1	14,212
8900272	BR8439	F191		313B	317F	41011	09/01/89	09/30/89	1	7,130
8900272	BR8440	F191		313B	317F	42001	09/01/89	09/30/89	1	7,796
8900272	BR8441	F191		313B	317F	42002	09/01/89	09/30/89	1	7,790
8900272	BR8442	F191		313B	317F	42003	09/01/89	09/30/89	1	7,704
8900272	BR8443	F191		313B	317F	42007	09/01/89	09/30/89	1	7,764
8900272	BR8444	F191		313B	317F	42015	09/01/89	09/30/89	1	42,374
8900272	BR8445	F191		313B	317F	42016	09/01/89	09/30/89	1	39,884
8900272	BR8446	F191		313B	317F	42017	09/01/89	09/12/89	1	16,421
8900272	BR8447	F191		313B	317F	44005	09/01/89	09/30/89	1	8,588
8900272	BR8448	F191		313B	317F	44007	09/01/89	09/30/89	1	6,976
8900272	BR8449	F191		313B	317F	44008	09/01/89	09/30/89	1	7,846

ACCESS NUMBER	REF NUMBER	FILE TYPE	PROJ CODE	INST	PLAT	CRUISE NO	CRUISE START	CRUISE END	NUM STA	NUM REC
8900272	BR8450	F191		313B	317F	44009	09/01/89	09/30/89	1	7,114
8900272	BR8451	F191		313B	317F	44011	09/01/89	09/30/89	1	2,792
8900272	BR8452	F191		313B	317F	44013	09/01/89	09/30/89	1	7,080
8900272	BR8453	F191		313B	317F	45001	09/01/89	09/30/89	1	7,112
8900272	BR8454	F191		313B	317F	45002	09/01/89	09/30/89	1	7,166
8900272	BR8455	F191		313B	317F	45003	09/01/89	09/30/89	1	7,134
8900272	BR8456	F191		313B	317F	45004	09/01/89	09/23/89	1	5,238
8900272	BR8457	F191		313B	317F	45005	09/01/89	09/30/89	1	43,031
8900272	BR8458	F191		313B	317F	45006	09/01/89	09/30/89	1	7,094
8900272	BR8459	F191		313B	317F	45007	09/01/89	09/30/89	1	7,156
8900272	BR8460	F191		313B	317F	45008	09/01/89	09/30/89	1	6,908
8900272	BR8461	F191		313B	317F	46001	09/01/89	09/30/89	1	8,574
8900272	BR8462	F191		313B	317F	46002	09/01/89	09/30/89	1	8,584
8900272	BR8463	F191		313B	317F	46003	09/01/89	09/30/89	1	7,192
8900272	BR8464	F191		313B	317F	46005	09/01/89	09/30/89	1	8,586
8900272	BR8465	F191		313B	317F	46006	09/01/89	09/30/89	1	7,678
8900272	BR8466	F191		313B	317F	46010	09/01/89	09/30/89	1	7,136
8900272	BR8467	F191		313B	317F	46011	09/01/89	09/30/89	1	7,182
8900272	BR8468	F191		313B	317F	46012	09/01/89	09/30/89	1	7,132
8900272	BR8469	F191		313B	317F	46013	09/26/89	09/30/89	1	636
8900272	BR8470	F191		313B	317F	46014	09/01/89	09/30/89	1	8,560
8900272	BR8471	F191		313B	317F	46022	09/01/89	09/30/89	1	8,582
[illegible]900272	BR8472	F191		313B	317F	46023	09/01/89	09/30/89	1	7,130
[illegible]00272	BR8473	F191		313B	317F	46026	09/01/89	09/30/89	1	3,016
[illegible]900272	BR8474	F191		313B	317F	46027	09/01/89	09/30/89	1	7,026
8900272	BR8475	F191		313B	317F	46028	09/28/89	09/30/89	1	468
8900272	BR8476	F191		313B	317F	46030	09/01/89	09/30/89	1	7,150
8900272	BR8477	F191		313B	317F	46035	09/01/89	09/30/89	1	7,797
8900272	BR8478	F191		313B	317F	46040	09/01/89	09/30/89	1	7,142

ACCESS NUMBER	REF NUMBER	FILE TYPE	PROJ CODE	INST	PLAT	CRUISE NO	CRUISE START	CRUISE END	NUM STA	NUM REC
8900272	BR8479	F191		313B	317F	46041	09/01/89	09/30/89	1	7,148
8900272	BR8480	F191		313B	317F	46042	09/01/89	09/30/89	1	42,728
8900272	BR8481	F191		313B	317F	51001	09/01/89	09/30/89	1	8,532
8900272	BR8482	F191		313B	317F	51002	09/28/89	09/30/89	1	794
8900272	BR8483	F191		313B	317F	51003	09/01/89	09/30/89	1	7,966
8900272	BR8484	F191		313B	317F	51004	09/01/89	09/30/89	1	2,574
8900272	BR8485	F191		313B	317F	ALSN6	09/01/89	09/30/89	1	1,436
8900272	BR8486	F191		313B	317F	BURL1	09/01/89	09/30/89	1	2,160
8900272	BR8487	F191		313B	317F	BUZM3	09/01/89	09/30/89	1	1,436
8900272	BR8488	F191		313B	317F	CARO3	09/01/89	09/30/89	1	1,440
8900272	BR8489	F191		313B	317F	CHLV2	09/01/89	09/30/89	1	4,079
8900272	BR8490	F191		313B	317F	CLKN7	09/01/89	09/30/89	1	2,141
8900272	BR8491	F191		313B	317F	CSBF1	09/01/89	09/30/89	1	2,155
8900272	BR8492	F191		313B	317F	DBLN6	09/01/89	09/28/89	1	1,114
8900272	BR8493	F191		313B	317F	DESW1	09/01/89	09/30/89	1	1,440
8900272	BR8494	F191		313B	317F	DISW3	09/01/89	09/30/89	1	1,432
8900272	BR8495	F191		313B	317F	DPIA1	09/01/89	09/30/89	1	1,432
8900272	BR8496	F191		313B	317F	DSLN7	09/06/89	09/30/89	1	4,822
8900272	BR8497	F191		313B	317F	FARP2	09/01/89	09/30/89	1	1,392
8900272	BR8498	F191		313B	317F	FBIS1	09/01/89	09/30/89	1	1,414
8900272	BR8499	F191		313B	317F	FFIA2	09/01/89	09/30/89	1	1,436
8900272	BR8500	F191		313B	317F	FPSN7	09/01/89	09/30/89	1	2,133
[illegible]00272	BR8501	F191		313B	317F	GBCL1	09/03/89	09/30/89	1	1,340
[illegible]00272	BR8502	F191		313B	317F	GDIL1	09/01/89	09/30/89	1	2,123
8900272	BR8503	F191		313B	317F	GLLN6	09/01/89	09/30/89	1	1,432
8900272	BR8504	F191		313B	317F	IOSN3	09/01/89	09/30/89	1	1,436
8900272	BR8505	F191		313B	317F	LKWF1	09/01/89	09/30/89	1	1,436
8900272	BR8506	F191		313B	317F	MDRM1	09/01/89	09/30/89	1	1,430
8900272	BR8507	F191		313B	317F	MISM1	09/01/89	09/30/89	1	1,434
8900272	BR8508	F191		313B	317F	MLRF1	09/01/89	09/30/89	1	1,430
8900272	BR8509	F191		313B	317F	MPCL1	09/01/89	09/30/89	1	1,440
8900272	BR8510	F191		313B	317F	NWPO3	09/01/89	09/30/89	1	1,438
8900272	BR8511	F191		313B	317F	PILM4	09/01/89	09/30/89	1	1,434
8900272	BR8512	F191		313B	317F	PTAC1	09/01/89	09/30/89	1	896
8900272	BR8513	F191		313B	317F	PTAT2	09/01/89	09/30/89	1	1,430
8900272	BR8514	F191		313B	317F	PTGC1	09/01/89	09/30/89	1	1,438
8900272	BR8515	F191		313B	317F	ROAM4	09/01/89	09/30/89	1	1,364
8900272	BR8516	F191		313B	317F	SAUF1	09/01/89	09/30/89	1	2,155
8900272	BR8517	F191		313B	317F	SBIO1	09/01/89	09/30/89	1	1,438
8900272	BR8518	F191		313B	317F	SGNW3	09/01/89	09/30/89	1	1,436
8900272	BR8519	F191		313B	317F	SISW1	09/01/89	09/30/89	1	1,438
8900272	BR8520	F191		313B	317F	SMKF1	09/01/89	09/30/89	1	1,184
8900272	BR8521	F191		313B	317F	SPGF1	09/01/89	09/30/89	1	2,120
8900272	BR8522	F191		313B	317F	SRST2	09/01/89	09/30/89	1	2,116
8900272	BR8523	F191		313B	317F	STDM4	09/01/89	09/30/89	1	1,436
8900272	BR8524	F191		313B	317F	SVLS1	09/01/89	09/30/89	1	1,432
8900272	BR8525	F191		313B	317F	TPLM2	09/01/89	09/30/89	1	1,426
8900272	BR8526	F191		313B	317F	TTIW1	09/01/89	09/30/89	1	1,436
8900272	BR8527	F191		313B	317F	VENF1	09/01/89	09/30/89	1	1,438
8900272	BR8528	F191		313B	317F	WPOW1	09/01/89	09/30/89	1	1,404

ACCESSION NO. 8900272 FILETYPE F191 TRACK NO. BR8432 -8449 PROJECT IDENTIFICATION

STEP	DATE	INIT.	TAPE OR DISK DSN	NO. FILES	LRECL	BLK SIZE	NO. RECORDS
ORIG. TAPE	11/6/89	CMH	A01002 *	1	120	4080	254,014
DUPLICATE TAPE	11/22/89	FJM	W09897 *	1	120	4800	254,044
REFORMATTED TAPE							
REFORMATTED DISK							
FIRST MULCHEK	12/8/89	CBS	BR8432	1	120	4800	254044
FINAL MULCHEK							
MPD75 OR F022							
DATA SET FINALIZED	12/21/89	CBS		1	120	4800	254044

ERRORS REPORTED TO PRINCIPAL INVESTIGATOR: * LABEL = NO LABEL

ADDITIONAL ERRORS/CORRECTIONS (NOT REPORTED TO P.I.)
all 000 wave periods and wave amplitudes 9000 with 000 wave periods deleted

COMMENTS (TRACKS DELETED, FIELDS DELETED, ETC.)

ACCESSION NO. 8900272 FILETYPE F191 TRACK NO. BR8450 – 8478 PROJECT IDENTIFICATION

STEP	DATE	INIT.	TAPE OR DISK DSN	NO. FILES	LRECL	BLK SIZE	NO. RECORDS
ORIG. TAPE	11/6/89	CMH	AØ1003	1	120	4080	227,426
DUPLICATE TAPE	11/27/89	FJM	WØ9972	1	120	4800	227,396
REFORMATTED TAPE							
REFORMATTED DISK							
FIRST MULCHEK	12/8/89	CBS	BR8450.	1	120	4800	227396
FINAL MULCHEK							
MPD75 OR F022							
DATA SET FINALIZED	12/21/89	CBS		1	120	4800	227396

ERRORS REPORTED TO PRINCIPAL INVESTIGATOR:

ADDITIONAL ERRORS/CORRECTIONS (NOT REPORTED TO P.I.)
All 000 wave periods and wave amplitudes of 9999 wave periods deleted

COMMENTS (TRACKS DELETED, FIELDS DELETED, ETC.)

ACCESSION NO. 8900272 FILETYPE F191 TRACK NO. BR8479-8528 PROJECT IDENTIFICATION

STEP	DATE	INIT.	TAPE OR DISK DSN	NO. FILES	LRECL	BLK SIZE	NO. RECORDS
ORIG. TAPE	11/6/89	CMH	A01004 *	1	120	4080	143,174
DUPLICATE TAPE	12/1/89	FJM	W09986 *	1	120	4800	143,164
REFORMATTED TAPE							
REFORMATTED DISK							
FIRST MULCHEK	12/19/89	CBS	BR8479.	1	120	4800	143164
FINAL MULCHEK							
MPD75 OR F022							
DATA SET FINALIZED	12/24/89	CBS		1	120	4800	143164

ERRORS REPORTED TO PRINCIPAL INVESTIGATOR: * = NO LABEL

ADDITIONAL ERRORS/CORRECTIONS (NOT REPORTED TO P.I.)
All 000 wave period and 000 wave amplitude 000 records deleted.

COMMENTS (TRACKS DELETED, FIELDS DELETED, ETC.)

ADP FACILITIES REQUEST FORM

USER NAME	PHONE #	ORG/TASK #	DATE SUBMITTED	DATE DUE	BIN #
Cliff Hartley	673-5636	EG1L00 8N3AH9	11/03/89	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	A01002		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 A01002 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
89110642	11/06/89	10:00	10:10	C	COMPLETED BY J.S.

COMMENTS

ADP FACILITIES REQUEST FORM

USER NAME	PHONE #	ORG/TASK #	DATE SUBMITTED	DATE DUE	BIN #
Cliff Hartley	673-5636	EG1200 8N3AH9	11/03/89	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	A01003		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 A01003 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
8911Q643	11/06/89	09:45	09:55	C	COMPLETED BY JS

COMMENTS

A01003

ASP FACILITIES REQUEST FORM

USER NAME	PHONE #	ORG/TASK #	DATE SUBMITTED	DATE DUE	BIN #
Cliff Hartley	473-5636	EG1200 8N3AH9	11/03/89	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	AD1004		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 AD1004 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
89110L-07	11/06/89	09:35	09:40	C	COMPLETED BY J.S.

COMMENTS

8900272

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

A01002
A01003
A01004

October 30, 1989

F1804-02
DB3:89-536
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 Sir:

Enclosed are the September 1989, 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

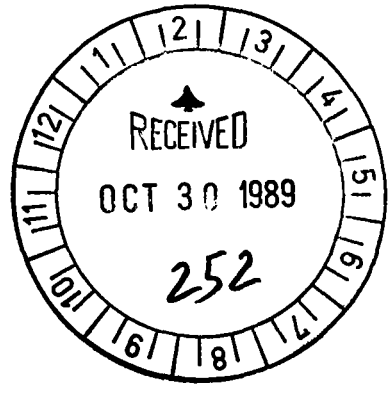
Sallie P. Nolan
ADP Manager

Enclosures

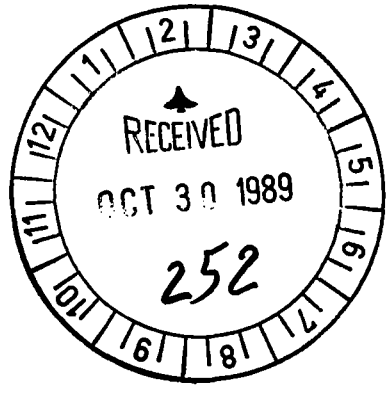
Attachment

Tape 1:
32302 09018900-09308923
41001 09018900-09308923
41002 09018900-09308923
41006 09018900-09078906
41008 09018900-09308923
41009 09018900-09308923
41010 09018900-09308923
41011 09018900-09308923
42001 09018900-09308923
42002 09018900-09308923 - 10
42003 09018900-09308923
42007 09018900-09308923
42015 09018900-09308923
42016 09018900-09308923
42017 09018900-09128911
44005 09018900-09308923
44007 09018900-09308923
44008 09018900-09308923 - 18

Tape 2:
44009 09018900-09308923
44011 09018900-09308923
44013 09018900-09308923
45001 09018900-09308923
45002 09018900-09308923
45003 09018900-09308923
45004 09018900-09238904
45005 09018900-09308923
45006 09018900-09308923
45007 09018900-09308923
45008 09018900-09308923
46001 09018900-09308923
46002 09018900-09308923
46003 09018900-09308923
46005 09018900-09308923
46006 09018900-09308923
46010 09018900-09308923
46011 09018900-09308923
46012 09018900-09308923
46013 09268918-09308923 - 20
46014 09018900-09308923
46022 09018900-09308923
46023 09018900-09308923
46026 09018900-09308923
46027 09018900-09308923
46028 09288918-09308923
46030 09018900-09308923
46035 09018900-09308923
46040 09018900-09308923 - 29



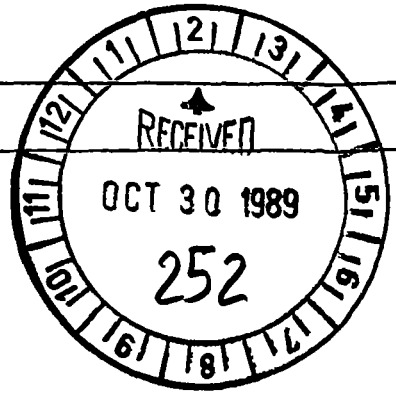
Tape 3: 46041 09018900-09308923
46042 09018900-09308923
51001 09018900-09308923
51002 09288904-09308923
51003 09018921-09308923
51004 09018900-09308923
ALSN6 09018900-09308923
BURL1 09018900-09308923
BUZM3 09018900-09308923
CARO3 09018900-09308923-10
CHLV2 09018900-09308923
CLKN7 09018900-09308923
CSBF1 09018900-09308923
DBLN6 09018900-09288920
DESW1 09018900-09308923
DISW3 09018900-09308923
DPIA1 09018900-09308923
DSLN7 09068917-09308923
FARP2 09018900-09308923
FBIS1 09018900-09308923-10
FFIA2 09018900-09308923
FPSN7 09018900-09308923
GBCL1 09038900-09308923
GDIL1 09018900-09308923
GLLN6 09018900-09308923
IOSN3 09018900-09308923
LKWF1 09018900-09308923
MDRM1 09018900-09308923
MISM1 09018900-09308923
MLRF1 09018900-09308923-10
MPCL1 09018900-09308923
NWPO3 09018900-09308923
PILM4 09018900-09308923
PTAC1 09018900-09308923
PTAT2 09018900-09308923
PTGC1 09018900-09308923
ROAM4 09018900-09308923
SAUF1 09018900-09308923
SBIO1 09018900-09308923
SGNW3 09018900-09308923-10
SISW1 09018900-09308923
SMKF1 09018900-09308923
SPGF1 09018900-09308923
SRST2 09018900-09308923
STDM4 09018900-09308923
SVLS1 09018900-09308923
TPLM2 09018900-09308923
TTIW1 09018900-09308923
VENF1 09018900-09308923
WPOW1 09018900-09308923-10



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

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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 the exponent and its associated spectra should be zero
QUAD-SPECTRA Q_{12}	68	6	Bytes	I6	
EXPONENT	74	2	Bytes	I2	
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	

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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

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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.

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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
8900272	F291	BR8496	9999	313B	317F	1989/09/06	DSLN7	189292
8900272	F291	BR8497	9999	313B	317F	1989/09/01	FARP2	189293
8900272	F291	BR8498	9999	313B	317F	1989/09/01	FBIS1	189294
8900272	F291	BR8499	9999	313B	317F	1989/09/01	FFIA2	189295
8900272	F291	BR8500	9999	313B	317F	1989/09/01	FPSN7	189296
8900272	F291	BR8501	9999	313B	317F	1989/09/03	GBCL1	189297
8900272	F291	BR8502	9999	313B	317F	1989/09/01	GDIL1	189298
8900272	F291	BR8503	9999	313B	317F	1989/09/01	GLLN6	189299
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