

FLT ID: 980824 I	FM: KMCF	TO: KMCF
FLT NO:	BLK IN: 0329	ATA: 0320
ETD: 182	BLK OUT: 1757	ATD: 1825
ETE: 9	BLK TIME: 9:32(9.5)	FLT TIME: 8:55(8.9)
SPONSOR ORG: HAD	PROGRAM: Research	PURPOSE: Air-Sea-Interaction

DAO PERSONNEL

AC McKim ✓	SYS ENG Hodes ✓
CP Tennesen / Kennel ✓	DATA SYS Lynch ✓
NAV Korak ✓	RADAR
FE Moore ✓	BT/ODW Smith ✓
RADIO Sans Souci ✓	CLD PHYS Moran
FD Parrish ✓	DOPPLER McFadden ✓

PARTICIPATING SCIENTIST/VISITORS/DAO

LAST, FIRST NAME	ACTIVITY ON A/C	AFFILIATION
Black, P. ✓		
Dodge, P. ✓		
Comacho, J. ✓		
Walsh, E. ✓		
Wright, W. ✓		
SP 1013.4 Fm 7K SP 1013 Fm 2.514	SP 1006.5 Fm 10K	
SP 1013 Fm 1K SP 1013.6 Fm 4K	SP 1014 Fm 5K	

PROPOSED/ACTUAL MISSION/REMARKS (RECCO, FIXES, STORM, PENET, NHOP #)
 Fly air/sea interaction 2K5K. Centro EP 26.0N, 72.8W. NOAA3 WX02A BODDIE
 ETA. 2035Z

§ 26°24'N, 72°59'W 963 mb 2052Z
 § 2210Z 26°35'N, 72°55'W 962 mb
 § 2320Z 26°41'N, 72°59'W 961 mb
 § 0010Z 26°47'N, 73°02'W 962 mb
 § 0124Z 27°00'N, 73°06'W 962 mb

5 penetration's H.D.

APD 155 = APD 232 + 13

01142 - 012800Z

980824I INEL 12EDAV

2000	0.0	0.4	27.8	19.8
2110	0.4	0.5	41.8	09.2
2200	0.4	0.2	02.8	25.7
2300	0.4	0.5	16.7	56.7
2330	0.6	0.1	22.8	55.2
0000	1.1	0.5	31.4	38.6
0040	0.5	0.4	46.0	29.4
0115	1.4	0.0	04.4	31.6
0200	0.7	0.6	00.4	50.3
0225	1.0	0.0	06.6	05.2
0300	1.5	0.6	40.6	23.3
0329	1.2	0.4	51.0	29.6

175801

~~175744~~ - 1732900

(12)

start to 18262

- Patch APD 155 with APD 232 + 13m between ~~01142~~ 01142 + 01282, and with APD 232 + 7 after landing 0322Z.

- TW1 unusable, TW2 needs patching end of F14.

* New start of data 175741Z

980824I

0922I

28I

HURRICANE BONNIE (AIR-SEA INTERACTION, MCF-MCF)

Flight 4 980824I N43RF

DATA TYPE SENSOR or OPTION

INE	1
Accelerometer	1
Temperature Probe	1
Altitude (for vertical wind)	RA APN-159
Static Pressure	Fuselage
Dynamic Pressure	Fuselage
Dewpoint Probe	2

Notes:

Aircraft INE #1 positions were renavigated with respect to GPS.

APN-159 radar altimeter spikes before take off and after landing were removed and patched with APN-232 altitudes.

During significant periods following 0115Z, the APN-159 RA source failed. During these periods, it was replaced by APN 232 + 13m (the mean difference between the APN 159 and APN 232 sources noted before the failure period).

SPECIAL NOTE!!! Locations 80, 81 and 82 of record five on the standard tape contain vertical ground, vertical air and vertical wind speeds, respectively, derived from Dave Jorgensen's vertical wind algorithm. It is recommended that these values be used for vertical wind analysis.

	Takeoff	Landing
Aircraft static pressure	1011.8 mb	1010.7 mb
Corrected tower pressure	1012.5 mb	***** mb

Flight Director: Jack Parrish, (813) 828-3310 ext. 3077

980824I H. Bonnie Air. Sea In Location

Time	LAT	LONG	TR	WD	WS	PA	GA	TA	TD	SP	PS	AD		963
1757	2750.9	8229.5				12		32.9	19.3		1016.7			
1827	2753	8225	81	32	9	560	549	25.5	18.9	1013	435	29.9		16K5
183845	2756.5	8136	28	22	7.13	3603	3770	6.8	-7.4	1006.6	640	28.8		9
190430	2800.3	7933.0	96	34	8.3	3979	4200	7.1	-24.3	1007.3	618.2	23.2		
191930	2752	7821	97	37	18	4002	4213	5.1	-8.0	1007.3	616.6	24.4		
1938	2741	7653	99	24	23	3498	4198	5.6	-7.9	1005.4	616.6			
194930	2733	7557	97	40	36.5	3784	3925	6.5	-7.0	1006	640	24.8		16 5K
2009	2724	7449	100	64	65	1499	1490	19.9	12.1	1002	843.5	25.7		
2018	2719.4	7421.6	99	64	75	1535	1500	18.8	14.6	999.2	842.5	23.6		
2029	2713	7403	131	67	83	7595	530	17.7	15.8	995.6	835	24.7		1P
2052	2624	7259								968				5
2121	2542.9	7146	1	193	84	1579	1515	18.3	17.4	985	837			SE AD
2137	2706	7143	3	140	98	1581	1533	16.1	15.3	998.6	837			
214630	2740	7152	211	122	87	1538	1524	17.0	11.2	1001	834	105		PO
215930	27040	7225	220	135	99	1695	1534	17.5	12.3	984	825			160000
2206	2647	7241	219	145	57	1811	1549	19.5	13.0	969	812			
224030	2526	7406				2210	2635	7255						962
2248	2511	7333	116	265	55	1659	1615	17.6	16.2	997.8	829.5			
225930	2515	7257	3	242	69	1657	1599	18.6	16.1	995.5	829			
231015	2600.8	7255.6	1	240	89	1051	1432	19.0	18.1	976	829			
2320	2641	7259						26	16	961				
2340	284	7235	0	90	80	1557	1513	17.2	14.3	948	839			
235730	2736	7345	141	76	86	1602	1502	17.7	16.7	992	835			
0016	2647	7352						25	17	962				
0019	2647	7207	94	174	94	1627	1514	18.0	18.6	970	835			
0043	2646	7119	90	155	83	1531	1517	17.2	15.5	1003	843			
004530	2647	7110	7200	14	PT	8								
0050	2708	7118	337	150	84	1509	1472	18.0	16.4	1001.4	841			
010515	2724	7202	227	133	105	1608	1524	17.4	16.2	992	833			
0113	2708	7226	234											
0124	27	7356						23	21	962				
013915	27	7414	269	22	74	1752	1626	17.5	16.1	988	819			
015030	2700	7504	271	359	52	3660	3750	8.7	2.5	994	644			
020215	2700	7602	271	4	35	5828	6120	-2.7	-31.7	993	483			
023545	2715	7852	282	341	12	5828	6177	-5.1	-16.9	1005.9	483.0			
024730	2729.7	8011.4	280	352	6	5827	6186	-5.0	-25.1	1006.4	483.0			
0329	2751	8229								1010				

Aircraft Operations Center
PO Box 6829
MacDill AFB, FL 33608-0829

Aug 31, 1998
~~March 16, 1996~~ AOC1:sw

MEMORANDUM FOR:

Same

FROM:

Captain George C. Player, III, NOAA
Director, Aircraft Operations Center

SUBJECT:

Hazard Duty Flight

The mission flown on AOC aircraft # N43AF on 24 Aug 98 has been declared hazardous. The following personnel from your laboratory participated in this mission.

*Black, P.
Dodge, P.
Gamache, J.*

For purpose of computing allowable hazard duty time, the hazard period during this mission was from 1357 local time on 24 Aug until 2329 on 24 Aug.

26 42
71 04 W

Fix 2 221025Z

~~20~~ 26 38
72 55

[26 34]
[72 52]

WS 3 KTS

147850 1109M SP 962

ET 962

136 DEG 106 KTS 39°/270mi

17C/1671

TEAL 33

24C/1844

25 22

19C/25C

74 11

23472

Fix 3

0025
0030

24/231934Z

27 34
73 50

26 42
72 55

26 41

850 1106

72 59

962

244/28KTS 180/34mi

19/1659

26/1836

16/24

2340

26 40

73 02

962

Teal
33

27 54
71 41

0016 26 47
73 02

68/10 Kt 320/45mi

962

Fix 4

18/1648

25/1824

17/22

26 43
73 59

0130
E/A

MODIFIED

Air-Sea Interaction - P46

Tampa

2h

IP/FP

100nm

50nm

3/9

7

8

• GPS code
OAXBT

4/10

2/11

N43RF flies same track as N42RF 10-15 min behind

N42RF ~~50~~ nodes / 2h AXBTs (external)

N43RF 25 nodes

Crews

N42RF (15000ft)

M. Black

C. one

Leighton

Marks

~~K. Goldenberg~~

A. Gerson

35R
26 25.1
72 44.5

N43RF (5000ft)

P. Black

Dodge

Gamache

E. Walsh

Ed's Engineer

0113

26 56

72 58

962

015/9

TEAL

Fix 5 0124

26 59

73 05W

962

146/120 71/50

25/012337 27.0N 73°06'W

850 1101M SP 962

146/120 71/50

19/1603

23/1764

21/24

01192

27

72 58

2527 7122

POSITION REPORT	
1. POSITION	2722
2. TIME	715L
3. ALTITUDE	
4. NEXT POSITION	
5. ETA	
6. NEXT POSITION	

EMERGENCY MESSAGE

TRANSMIT THE FOLLOWING MESSAGE TO ANY AGENCY ON THE AIR-GROUND
FREQUENCY IN USE. IF UNABLE TO ESTABLISH COMMS, ATTEMPT CONTACT ON
ANY OF THE FOLLOWING EMERGENCY FREQUENCIES:

UHF/VOICE	VHF/VOICE	MF/VOICE	HF/CW	MF/CW
243.0	121.5	2182 KHZ	8364 KHZ	500 KHZ

MAYDAY, MAYDAY, MAYDAY

THIS IS NOAA _____, NOAA _____, NOAA _____

- POSITION _____ N/S _____ E/W AT _____ Z

- HEADING _____ TRUE/MAG

- AT _____ KTS TRUE/INDICATED

- FLIGHT LEVEL OR ALTITUDE _____

- WE ARE A P-3 AIRCRAFT WITH _____ SOULS ON BOARD

- NATURE OF EMERGENCY _____

- ASSISTANCE DESIRED _____

- PILOT INTENTIONS _____

- WE HAVE _____ ENDURANCE REMAINING

[illegible]

2700N 7258W 961

[illegible]

**U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
AIRCRAFT OPERATIONS CENTER**