

19930827I1-FDIR

HURRICANE EMILY

FLIGHT #01 OF 05 I930827 (VORT.ENVIRON INTERACT)

TYPE OF DATA	SENSOR OR OPTION
INE	1
Accelerometer	1
Temperture probe	TT1
Altitude change option (for vertical winds)	RA (APN-159)
Static pressure	Rosemount fuselage
Dynamic pressure	Rosemount fuselage (1221)
Time Source	Micro 29
Constants file	C03931.CON

Notes:

THIS FLIGHT WAS RENAV'D UTILIZING GPS POSITIONS.

OCCSIONAL DEWPOINTER WET-BULBING MAY OCCUR ON ANY GIVEN FLIGHT WHEN IN VERY MOIST CONDITIONS.

THE DEWPOINTER WAS BALANCED BY THE F/D AT 202600Z - THE DATA WAS DESPIKED AND PATCHED.

TT2 DOWN AT THE FOLLOWING TIMES:

215100Z - 215400Z
215830Z - 220630Z
221230Z - 223300Z
235100Z - 235345Z
001600Z - 002400Z (ON DECENT)
010600Z - 010915Z (ON DECENT)

SPECIAL NOTE!!! Locations 80, 81 and 82 of record five on the standard tape contain vertical ground, vertical air and vertical speeds, respectively, computed using Dave Jorgensen's vertical wind algorithm.

	Take off ----- (KMIA)	Landing ----- (TXKF)
AIRCRAFT STATIC PRESSURE	1016.3mb	1017.6mb
AIRCRAFT SURFACE PESSURE	1016.9mb	1017.3mb
CORRECTED TOWER PRESSURE	1016.4mb	1021.0mb

FLIGHT METRO: PHILIP D. BOGERT

FLT ID: 930827I	FM: EMCF ^{VIA} EMIA	TO: BK F (Bermuda)
FLT NO: 93-61	BLK IN: 26/0141	ATA: 16522/101362
ETD: 1600Z	BLK OUT: 15572/1842	ATD: 16052/18522
ETE: 10+00	BLK TIME: 9+44 (9.8)	FLT TIME: 1
SPONSOR ORG: HRD	PROGRAM: Herb. Res.	PURPOSE: T.S. Emily

OAO PERSONNEL

AC McKim ✓	SYS ENG Goldstein ✓
CP PLAYER ✓	DATA SYS LYNCH ✓
NAV KOZAK / RATHBUN ✓	RADAR
FE MOORE / BAST	BT/ODW PRADAS ✓
RADIO ARJASON ^{SENS Soud}	CLD PHYS McMILLAN ✓
FD ROBERT	DOPPLER

PARTICIPATING SCIENTIST/VISITORS/OAO

LAST, FIRST NAME	ACTIVITY ON A/C	AFFILIATION
McFadden ✓	Prog. MGR	AOC
FRANKLIN ✓	PI	HRD
MARKS ✓		"
Griffin ✓		"
Burpee ✓		"
	1750.B.	

47 PROPOSED/ACTUAL MISSION/REMARKS (RECCO, FIXES, STORM, PENET, NHOP #)

T.S. Emily NR 26.6N 69W (60KTS)
 P/U 500X/HRD IN miami → Emily → Bermuda
 ACT - ^{MCE} 3008/1018.6 ^{LAND MIA} 3006/1017.2 ^{KMIA} 3003/1016.9
 SP 1018.6 SP 1018.4 SP 1016.9 mbs
 PS 1018.3 PS 1018.2 PS 1016.2
 Bermuda DP BAL @ 2026Z,
 ALT 3017/1021.0 mb
 SP 1017.3
 PS 1017.6 mb

02 Penetrations

U.S. DEPT. COMM./NOAA/OAO - DATA SECTION WORK FORM NO.2 OAOWF2 FILE

FLT ID: 930827I

TIME OFF: 1605Z

TIME ON: 0136Z

	A/C T/O	WX STN	A/C LAND	WX STN
PRESSURE				

NO	DATA DISPOSITION/DATE/QUALITY
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1/SEC FLT LVL TAPES	1	
FAST FLT LVL TAPES	0	
RADAR TAPES	6	
DOPPLER TAPES	0	
ODW CASSETTES	01	
HARD COPIES	-	
X PMS DAT	1	
AXBT	0	
AXCP	0	
ODW	7	

PHOTOGRAPHY

	FWD	LS	RS	VERT
ON				
OFF				
RATE				

REMARKS

[illegible]

PROPOSED T.O.	1820
ACTUAL T.O.	1852

[illegible]

SYS	BEGIN ALIGN TIME	NCS CONN	Ω AID	TIME OUT OF COARSE	ALIGN STS 0-5	(1) TIME INTO NAV.	(2) TIME OUT NAV.	ΔT (2)(1)	TERMINAL ERRORS		
				ELAPSE ALIGN POST TIME					LAT	LONG	G S
INS 1	1700				0	1834	0141	7+07	+4.3	-3.9	2
INS 2 IMU	1700				1	1834	0141	7+07	+6.6	+3.3	6

OTHER REMARKS:

02L

A/C COMMANDER	NAVIGATOR	A/C NO.	MISSION NO.	TIME AIRBORNE	LOCATION	DATE	PROJ. NAME		
MCKIM	ROXBURN LOZAK	NR3F	93-61	1852	KMTA TXLF (304)	27 Aug	Emily 93		
TIME OF ENTRY	POSITION	TYPE INE USED	INE #1 POSITION	LAT LON COR'S	INE #2 POSITION	LAT LON COR'S	ALT GS	TH TK	REMARKS
1834									ENB
1840									TAXI
1852									TOFF
1933	2544.3 7701.0W	GPS 2	2543.8N 7701.0W	+1.5 0	2542.7N 7702.0W	+1.6 -1	17K 281	086 08V	PODUP 2 CEUP 0.1
2003	2559.8 7431.5W	GPS 2	2558.7N 7432.0W	+1.1 -5	2556.4N 7429.8W	+2.9 +1.7	17K 272	086 684	SW 440.5MS 1 ATT POUP 2.7
2038	2617.5N 7133.4W	GPS 1	2616.0N 7134.1W	+1.5 -7	2613.6N 7131.6W	+3.9 +1.8	17K 271	082 082	POUP 2-3
2119	2622.0N 6800.3W	GPS 1	2627.0N 6810.5W	+2.0 -1.2	2624.0N 6806.6W	+5.9 +2.7	17K 272	085 087	POUP 2.0
2157	2629.0N 6452.8W	GPS 1	2627.3N 6454.5	+2.2 -1.7	2623.2N 6452.4W	+6.7 +2.4	19K 205	101 090	POUP 1.1 5
2233	2634N 6500.4W	GPS 2	2633.7N 6511.4W	+1.3 -2.0	2629.0N 6507.2W	+5.0 +2.9	0K 310	188 186	POUP 0.7 5
2245	2538.4 6521.7W	GPS 1	2535.4 6520.0	+3.0 -2.3	2530.8 6519.3	+7.6 +2.4	10K 280	227 220	POUP 2.9
2311	N 24 11.0 W 66 23.4	GPS 1	24 08.4 N 66 26.0 W	+2.6 -2.6			300 278	091 091	POUP 3.3
0006	N 25 48.4 W 64 48.1	GPS 1	25 44.6 N 66 44.8 W	+3.8 -2.9	25 39.6 N 66 42.3 W	+8.8 +2.8	200 306	106 101	POUP 2.0
ATC CLEARANCE:									
2125 START 2347N									
06440W									
ENROUTE CLEARANCES:									
2134 6457W									
2224									
2634N									
66505W									
225'									
2846									
11330									
TYPE OF FIX: (1) DR (2) RADIO (3) CELESTIAL (4) VISUAL (5) LORAN (6) RADAR (7) DOPPLER - INERTIAL (8) OMEGA (9) INERTIAL (10) OMEGA - INERTIAL									

[illegible]

5

2256

2633

6512

23222 6 3 9

0512

2035

03 23

263 22

650 8