

# 19930831 II. FDIR

## HURRICANE EMILY

-----

FLIGHT #05 OF 05 I930831 (FIG.4 / FERRY)

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 lource	Micro 29
Constants file	CO3931.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.

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	Landing
	-----	-----
	(KBOS)	(KMIA)
AIRCRAFT STATIC PRESSURE	1014.0mb	1014.4mb
AIRCRAFT SURFACE PESSURE	1014.3mb	1014.4mb
CORRECTED TOWER PRESSURE	1014.4mb	1013.0mb

FLIGHT METRO: PHILIP D. BOGERT

FLT ID: 930831I	FM: KPOS	TO: KMCF VIA KMA
FLT NO: 93-065	BLK IN: 00482/01482	ATA: 00422/01402
ETD: 2000Z	BLK OUT: 1935Z	RTD: 1948Z
ETE: 5+00	BLK TIME: 5+13 (5.2) <sup>KMA</sup> 6.2	FLT TIME: 4+54 (4.9) <sup>KMA</sup> 5.9
SPONSOR ORG: HRD	PROGRAM: Hops/H.Emily	PURPOSE: Ferry + Fig 4.

OAO PERSONNEL

AC PHILIPPSON ✓	SYS ENG GOLDSTEIN ✓
CP MCKIM ✓	DATA SYS LYNCH ✓
NAV KOZAK ✓	RADAR PRADAS ✓
FE MOORE / BAST	BT/ODW McMILLAN
RADIO SANS SOUCI ✓	CLD PHYS
FD ROBERT ✓	DOPPLER

PARTICIPATING SCIENTIST/VISITORS/OAO

LAST, FIRST NAME	ACTIVITY ON A/C	AFFILIATION
H. Wilboughby ✓	P.I.	HRD
R. Burpee ✓		"
J. Gertner ✓		"
P. Willis ✓		"
CERTS Uma PEMMARATY ✓		WBZ/NBC
DENNIS JAMISON ✓		" "

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

FERRY TO TAMPA VIA H.Emily (Fig 4) & MIA (off-load HRD)

H.Emily VECTY 35N 75W / CAPE LATERAS. ETA 2130Z

ALT - 2999 / 1014.4 mbs      2135Z 35-15N 75-10W

SP - 1014.3 mbs              2213Z 35-17N 75-05W

PS - 1014.0

MIA ALT - 2994 / 1013.0      ~~KMCF~~ ALT - 2992 / 1013.2

SP - 1014.4 mbs              SP - 1012.8 mbs

PS - 1014.4                      PS - 1012.4

02 PENETRATIONS

U.S. DEPT. COMM./NOAA/ORD - DATA SECTION WORK FORM NO.2 DROWF2 FILE

FLT ID: 930831T TIME OFF: 1948Z TIME ON: 01/0042Z

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

NO DATA DISPOSITION/DATE/QUALITY

1/SEC FLT LVL TAPES	1	
FAST FLT LVL TAPES	0	
RADAR TAPES		
DOPPLER TAPES	0	
ODW CASSETTES	0	
HARD COPIES	0	
PMS DAT		

AXBT	0	
AXCP	0	
ODW	0	

PHOTOGRAPHY

	FWD	LS	RS	VERT
ON				
OFF				
RATE				

REMARKS

# FLIGHT PLAN

PROPOSED T.O. 1945  
ACTUAL T.O. 1908

WAY POINT	TO	RTE	ALT	TAS	TC	W V		TH	VAR	MH	GS	ZONE DIST	TOTAL DIST	ZONE TIME TOTAL TIME	PROPOSED ETA	ETA
						DC										ATA
1	PVO 4143.5N 7125.8W		↑	250	206		✓	206	15W	221	250	42	42	+10 +10	1955	1958
2	HTO 4055.1N 7219.0W		↑	250	220		✓	220	14W	234	250	63	105	+15 +25	2010	2013
3	WARVN 3846N 7442W		KK	300	222		✓	222	13W	235	300	170	275	+34 +59	2044	2047
4	35N 75W		18K	300	186		✓	186	12W	198	300	227	502	+45 +44	2129	2132
5	3226.06N METTA 7622.8W		18K	300	231		✓	231	10W	241	300	229	731	+46 +30	2235	2318 2315
6	2913.3N HUBER 7929.1W		18K	300	197		✓	197	1W	203	300	197	928	+10 +10	2355	2358 2352
7	2557.8N ATA 8027.6W		18K	300	205		✓	205	4W	209	300	208	1036	+12 +52	0037	0040

H. DE. 2

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	GS
INS 1	1745				0	1930	0150	0220	+12	+13	1 ✓
INS 2 IMU	1745				0	1930	0150	0220	-7.9	+3.4	4

ALIGN REMARKS:

OTHER REMARKS:

A/C COMMANDER	NAVIGATOR	A/C NO.	MISSION NO.	TIME AIRBORNE	LOCATION	DATE	-PROJ. NAME
P 411 McKim	Kozak	M43RF	93-65	1914K	BOSTON TO MIAMI	31 AUG 93	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	TK	REMARKS
1930 1934 1948	4221.4N 7101.5W	vis 1	4221.4N 7101.5W	0	4221.4N 7101.5W	0	✓	✓	ENG TAVI TOFF checks
0009	4119.1N 7122.5W	GPS 1	4118.9N 7122.6W	+2 -1	4118.8N 7122.4W	+3 +1	18K 253	226 222	LEVEL OFF POUP 2.2
2057	3809.0N 7332.9W	GPS 1	3800.4N 7332.5	-4 +4	3809.8N 7333.2W	-8 +7	18K 253	200 201	PPWP 2.2
2135	3514.5N 7510.0W	GPS 1	3514.6N 7509.5W	-3 +5	3515.7N 7509.6W	-12 +2	18K 301	190 180	PPWP 2.1
2213	3516.5N 7502.5W	GPS 1	3516.8N 7502.5W	-3 0	3519.6N 7503.0W	-21 -15	18K 283	270 270	PPWP 2.7
2235	3512.9N 7600.2W	GPS 1	3512.7N 7600.2W	+2 +10	3515.2N 7608.3W	-23 +9	18K 325	224 216	PPWP 3.1
2340	3013.5N 7859.6W	GPS 1	3013.1N 7858.6W	+4 +8	3017.3N 7858.6W	-38 +10	25K 333	196 195	PPWP 2.8
0048	2546.4N 8017.4W	GPS 1	2548.2N 8017.0W	+2 +4	2554.5N 8015.8W	-59 +16			BLACKEN MIAMI
0056									Blacken OUT MIAMI
0100									TUFF MIAMI
0122	2649.7N 8123.5W	2 1	2647.6N 8123.0W	+19 +5	2655.8N 8121.2W	-61 +24	14K 322	314 323	MOT LABELLE
0150	2750.9N 8229.2W	vis 1	2749.7N 8228.3W	+12 +13	2758.6N 8226.2W	-79 +24			CHOCKS 2nd MacDILL

ATC CLEARANCE: Logan 9 Lucas 3000T 180 1300 SMO AT 007 253 R Rifle

12305 200 162  
ENROUTE CLEARANCES: 119.45 4574 126.78  
3506 7503  
20362 3594 062  
7500 7510 130 2157 7511

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

930831I

Time	LAT		LONG		TRK	WD	WS	PA	GR	TR	TD	SP	PS	
2003	41	35	70	57	233	204	22	4412	4670	0.2	-13.0	105	577.5	ENR 9
2055	38	18	73	28	200	180	20	5502	5830	-4.4	-15.6	093	504.9	"
2157	34	55	74	26	044	211	85	5510	5698	-2.0	-6.6	987.6	504.3	E. A. GEN
2246	34	32	76	43	215	314	35	5514	5802	-7.2	-10.5	105	504.1	ENR KMC
2339	30	23	78	56	195	360	15	7657	8118	-19.4	-25.7	092	374.0	"