

19830817I2-FOIR

MISSION 0703

RFF-10 WORK FORM (8-72) U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION RESEARCH FLIGHT FACILITY MIAMI, FLORIDA		AIRCRAFT N43RF	
FLIGHT LOG		FLIGHT NO. 40-83	
		FLIGHT ID 830817I-2	
		DATE 17 August 1983	
TAKE OFF (City or airport) MSY	LAND (City or airport) MSY	ALTITUDE 5 K (850 mb)	
PURPOSE Obtain 21,00,03Z Fixes For CACAH in Hurricane Alicia. Also Fly butterfly pattern for HRD research.			
PROPOSED TAKEOFF TIME: 1930Z		PROPOSED FLIGHT DURATION: 10+	
TIME IN: 0440		TIME ON: 0434	
TIME OUT: 1935Z		TIME OFF: 1944	
BLK. TIME: 9+05		FLIGHT TIME: 8+50	
FLIGHT PERSONNEL			
OPERATIONS CREW		WEATHER CREW	
Ticknor Genzlinger Adams Cicirelli	Fleury 	Parrish Devivo DuGranrut Zysco	Willoughby Tatnall Bogert Wiggert
		VISITORS Darby Batell Jones Zipser	
PROPOSED MISSION Fly to Hurricane Alicia from MSY in time for 21Z fix. Fly figure 4 pattern at 5K radar, shifting 30° at each completion. Obtain 21,00,03Z fix. \$ time 0009			
ACTUAL MISSION AND REMARKS Problem is radar machine - check problem. Temp 2. INEL. Mission as planned. Obtained 21,00,03Z fixes. Flew vortex evolution experiment IAW HRD Ops Plan. Diverted from pattern to investigate outer rainband SE of storm. Bad temps 0141Z - 0147Z.			
DATA COLLECTED AND REMARKS 1 slow 22. Doppler 18 radar Sea surface photos. 23 C.A.			

RFC/SIG FLIGHT PERFORMANCE LOG

FLIGHT TECH: DUGRANUT / ZYSICOFLIGHT I.D.: 830817 I-BAIRCRAFT: N43RFMISSION: Horn AliciaTIME: (Pre-Flt) 1748Z (17 Aug 83) (Take-Off) 1944Z (Land) 0934

SYSTEM				PRE-FLIGHT	INFLIGHT	POST-FLIGHT		
		ALIGN PI	AID			LAT	Lon	GS
N A V	INE1	0	2/D	① ✓		4.1	-1.0	13
	INE2	0	2/D	✓		-5.4	-4.9	34
	ONE			✓				
	DOPLR			✓				
R A D A R	INTEGRATION (PRI'S)							
	NOSE	N/A		✓				
	L/F	15		✓				
	TAIL	63		✓				
R	DATA SYSTEM			✓	(4)	#TAPES: 18		
RAMS DATA SYSTEM				✓	(5)			
TEMP		CAL HI	CAL LO	AMBIENT		CAL HI	CAL LO	
TEMP #1		30.8	-29.9	27.7 ✓		30.4	-30.1	
TEMP #2		31.1	-30.0	28.6 ✓		30.9	-30.2	
DEW POINT (CLEANED: Y/N) N				20.8 ✓				
ATTACK ANGLE				✓				
SLIP ANGLE				✓				
ABSOLUTE PRESSURE				✓				
DIFFERENTIAL PRESSURE				✓				
RDR ALTM. S/N: SN-1				✓				
J&W				✓				
P M S	OAP 2D-C			✓				
	OAP 2D-P			✓				
	FSSP-100			②				
	DATA SYSTEM			✓		#TAPES: 23		
FOIL IMPACTOR				NI		#INCHES:		
ICE RATE DETECTOR				NI				
CO2 RADIOMETER				NI				
MICROWAVE RADIOMETER				NI				
SURFACE RADIOMETER				✓				
SEEDER				NI				
GUST PROBE				NI				
ASDL				✓		20 OBS		#MESSAGES: 18
ROSEMOUNT WING Ps Pq				✓				
DOPPLER RADAR (TAIL)				✓		#TAPES: 22		
HARD COPY				✓				
P		RATE	(COUNTS)				(COUNTS)	
H	FORWARD	1/5	③ 00	✓	1949	0230	7430	
O	VERTICAL	1/second	~ 40 frames					
T	RIGHT SIDE	1/5	00	✓	1949	0230	4509	
O	LEFT SIDE	1/5	00	✓	1949	0230	5003	
AXB T SYSTEM				NU				
ODW SYSTEM				✓				
AXB T EXPENDABLES: #ON BOARD: 0				#DROPPED:		#GOOD:		
DROPSONDES: #ON BOARD: 8				#DROPPED: 0		#GOOD:		
CUMMULATIVE ACCEL. (MELC)				#1 (2G)	#2 (2.5G)	#3 (3G)	#4 (3.5G)	
(LOG AT END OF FLIGHT)				2062	657 6579	5966	7892	

CODE: ✓ - OPERATIONAL; X() (TIME) - FAILURE (NOTE);

NI - NOT INSTALLED; NU - NOT USED

USE REVERSE SIDE FOR NOTES.

REPORT COMPLETION OF PRE-FLIGHT AND INSTRUMENT STATUS TO FLIGHT DIRECTOR

① INE#1 WARN STATUS 00004 ON NGFG - SYSTEM RESTARTED

② FCSP 1A10P - LASAR NOT FIRING

2.2

(3) - FWD CAMERA FULL OF WATER - CHANGED BODY, LENS, APTX.

(4) TOD ON DISPLAY - NO ODD #'S (PIA IN RDSC?) (TOR OK)

(5) S system suspends (CPU1) numerous ADC#1 malfunctions - addressing, channel

A/C COMMANDER	NAVIGATOR	A/C NO.	MISSION NO.	TIME AIRBORNE	LOCATION	DATE	PROJ. NAME
TICKNOR	ADAMS	N43RF	830817	1944	MSY 29-54.2 90-16.4	17 Aug 1983	♂ Alicia

TIME OF ENTRY	POSITION	TYPE	INERTIAL POSITION	LAT LON COR'S	POSITION	LAT LON COR'S	REMARKS
193446	29-54.2 090-16.4	4	29-54.2 090-16.4	0 0	29-54.2 090-16.4	0 0	Block out
1944	29- 090-	4	29-54.2 090-15.7		29-54.1 090-15.6		TOFF
200025	29-10.5 90-06.2		29-06.6 90-05.2	+3.9 +1.0	29-06.9 90-05.4	+3.6 +1.8	MNT LEE
2007	29-04 90-31		29-02.7 90-32.4	+1.3 +3.6	29-02.9 90-33.1	+1.1 +2.9	LEE 255/25
2022	28-42 91-49		28-44.6 91-49.8	-2.6 -0.8	28-45.4 91-50.2	-3.4 -1.2	LEE 252/95
2101	28 94		28-14.1 94-40.6		28-14.3 94-39.7		♂2
2125							3
2150							4
2209			28-14.0 94-36.2		28-12.8 94-34.5		♂2 Good Pos.
			28-54.6 94-37.2		28-54.2 94-34.7		Sholes VT 136/29
2225							5
2237			28-14.4 94-37.8		28-14.2 94-36.6		2

SYS	BEGIN ALIGN TIME	NCS CONN	Ω AID	TIME OUT OF COARSE ELAPSE ALIGN POST TIME	ALIGN STS 0-5	(1) TIME INTO NAV.	(2) TIME OUT NAV.	ΔT (2)(1)	TERMINAL ERROR		
									LAT	LONG	G
INS 1	1759	✓	✓		0	1925	0440	9.3			1
INS 2 or IMU	1759	✓	✓		0	1925	0440	9.3			3

ALIGN REMARKS: Flew unaided - Omega would not lock on.

OTHER REMARKS: INS 2 frequently had wind speed > INS 1 by 50 kts.

TYPE OF FIX : (1) DR (2) RADIO (3) CELESTIAL (4) VISUAL (5) LORAN
(6) RADAR (7) DOPPLER (8) OMEGA (9) INERTIAL
(10) OMEGA - INERTIAL

TIME OF ENTRY	POSITION	TYPE	INERTIAL POSITION	LAT LON COR'S	POSITION	LAT LON COR'S	REMARKS
2322	27-31		26-57.2 92-54.2		26-54.4 92-55.5		Scholes 151/121
2340	28-17 93-00	2	28-13.0 93-06.2	+4.0 -6.2	28-11.9 93-01.8	+5.1 -1.9	White lake 201/90
2347	28-42 93-15	2	28-39.2 93-16.2	+2.8 -1.2	28-38.6 93-11.1	+3.4 +3.9	White lake Update 218/73.5 INS'
0013			28-18.4 94-38.6		28-16.7 94-40.7		5
002415	28-06 95-01		28-03.3 94-58.1	+2.7 +3.1	27-59.9 95-03.8	+6.1 -2.8	Scholes 175/71
0109			28-21.6 94-42.6		28-17.0 94-35.1		5
0128	29-30 93-55	2	29-24.0 93-55.6	+6.0 -1.6	29-20.7 93-51.3	+9.3 +3.7	Sabine 156.5/14.3
0154			28-24.3 94-46.5		28-23.6 94-53.4		5
0258			28-27.2 94-51.0		28-27.2 94-47.2		5
0328			28-30 94-55				5
0343	28-44 93-34	2	28-37.9 93-45.9	+6.1 -11.9	28-32.4 93-43.4	+11.6 -9.4	Scholes 115/75 157' Sabine
035011			28-42.4 93-17.6		28-35.0 93-10.7		White lake 266/69 Sabine 139
0400	28-58 92-22	2	29-00.8 92-25.8	-2.8 -3.8	28-53.0 92-18.7	+5.0 +8.3	MSY 240.5/131
	2						
043413	29-54.2 090-16.4		29-54.7 090-15.7	-1.5 +1.7	29-59.2 090-17.0	-5.0 -1.6	Land MSY
0439	29-54.2 090-16.4		29-54.1 090-17.4	+1.1 -1.0	29-59.6 090-21.3	-5.4 -4.9	Block IN

18:52: 0 830817 RFC FTRK 0:55:15

