

# MISSION 0703

<b>RFF-10 WORK FORM</b> (8-72) U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION RESEARCH FLIGHT FACILITY MIAMI, FLORIDA		<b>AIRCRAFT</b> N43RF <b>FLIGHT NO.</b> 40-83 <b>FLIGHT ID</b> 830817I-2 <b>DATE</b> 17 August 1983		
<b>FLIGHT LOG</b> <span style="float: right; font-size: 2em;">OK</span>				
<b>TAKE OFF (City or airport)</b> MSY	<b>LAND (City or airport)</b> MSY	<b>ALTITUDE</b> 5K (850 mb)		
<b>PURPOSE</b> Obtain 21,00,03Z Fixes For CABCAH in Hurricane Alicia. Also Fly butterfly pattern For HRD research.				
<b>PROPOSED TAKEOFF TIME:</b> 1930Z	<b>PROPOSED FLIGHT DURATION:</b> 10+			
<b>TIME IN:</b> 0440	<b>TIME ON:</b> 0434			
<b>TIME OUT:</b> 1935Z	<b>TIME OFF:</b> 1944			
<b>BLK. TIME:</b> 9+05	<b>FLIGHT TIME:</b> 8+50			
<b>FLIGHT PERSONNEL</b>				
<b>OPERATIONS CREW</b>	<b>WEATHER CREW</b>	<b>VISITORS</b>		
Ticknor	Fleury	Farrish	Willoughby	Darby
Genzlinger		Devivo	Tatnall	Batell
Adams		DuGranrut	Bogert	Jones
Cicirelli		Zysco	Wiggert	Zipser
<b>PROPOSED MISSION</b> 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				
<b>ACTUAL MISSION AND REMARKS</b> 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.				
<b>DATA COLLECTED AND REMARKS</b> 1 slow 22 Doppler 18 radar Sea surface photos. 23 C.F.				

RFC/SIG FLIGHT PERFORMANCE LOG

PILOT TECH: DUGRANUT / ZYSICO FLIGHT I.D.: 830817 I-B  
 AIRCRAFT: N43RF MISSION: Hurr Alicia  
 TIME: (Pre-Flt) 1748Z (17 Aug 83) (Take-Off) 1944Z (Land) 0934

SYSTEM			PRE-FLIGHT	INFLIGHT	POST-FLIGHT			
	ALIGN	PI	AID			LAT	LON	GS
NAV	INE1	0	Ω/D	① ✓		+1	-1.0	13
	INE2	0	Ω/D	✓		-5.4	-4.9	34
	ONE			✓				
	DOPLR			✓				
INTEGRATION (PRI'S)								
RAD	NOSE	N/A		✓				
	L/F	15		✓				
	TAIL	63		✓				
	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	✓		30.7	-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				✓				
PMS	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 Winc Ps Pa				✓				
Doppler Radar (Tail)				✓				#TAPES: 22
Hard Copy				✓				
P		RATE	(COUNTS)					(COUNTS)
H	FORWARD	1/5	③ 90	✓	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
AXBT SYSTEM			NU					
ODW SYSTEM				✓				
AXBT 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)			8062	667 6.79	5966	7892		

CODE: ✓ - OPERATIONAL; X(#) (TIME) - FAILURE (NOTE); (4) VISUAL (5) LORAN  
 NI - NOT INSTALLED; NU - NOT USED (8) OMEGA (9) INERTIAL  
 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 1X10P - LASAR NOT FIRING

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

(A) TOD ON DISPLAY - NO ODD #S (PIA IN RDSC?) (TR OK)

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

SYSTEM		PRE-FLIGHT	IN-FLIGHT	POST-FLIGHT
INSTRUMENT	ALIGN PI			
INE1	0			
INE2	0			
ONE				
DOPLR				
R				
A				
D				
A				
R				
DATA SYSTEM				
DATA SYSTEM				
TEMP	CAI HI	CAI LO	AMBIENT	
TEMP #1	30.8	-30.9	30.7	
TEMP #2	31.1	-30.0	28.6	
CLEAR POINT (CLEANED: Y/N)			30.8	
ATTACK ANGLE				
SLIP ANGLE				
ABSOLUTE PRESSURE				
DIFFERENTIAL PRESSURE				
PRR ALTM 2/N	2M-1			
JCM				
P	0AP 20-C			
M	0AP 20-P			
S	F2SP-100			
DATA SYSTEM				
BOIL INDICATOR				
RICE RATE DETECTOR				
CO2 RADIOMETER				
MICROWAVE RADIOMETER				
SURFACE RADIOMETER				
SEEDER				
GUST PROBE				
AZOL				
ATTITUDE W/ P <sub>2</sub>				
STRAPS: 22				
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STRAPS: 100				

CODE: - V - OPERATIONAL; X (A) (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

A/C COMMANDER		NAVIGATOR		A/C NO.	MISSION NO.	TIME AIRBORNE	LOCATION	DATE	PROJ NAME		
TICK NO. R		ADAMS		N438F	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	MAT LEE				
2007	29-04 90-38		29-02.7 90-32.4	+1.3 +3.6	29-02.9 90-33.1	+1.1 +2.9	LEE 255/25				
202R	28-42 91-49		28-44.6 91-49.8	-2.6 -.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		♂ <sup>2</sup>				
2125							3				
2150							4				
2209			28-14.0 94-36.2		28-12.8 94-34.5		♂ <sup>2</sup> 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	ALIGN STS 0-5	(1) TIME INTO NAV.	(2) TIME OUT NAV.	ΔT (2)(1)	TERMINAL ERROR		
				ELAPSE ALIGN POST TIME					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											



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

