

# 19830816HI - FDIR

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RFC-1 WORK FORM (7-76) U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION RESEARCH FACILITIES CENTER MIAMI, FLORIDA		AIRCRAFT 42RF			
FLIGHT LOG <i>compl.</i>		FLIGHT NO. 53-83 <i>???</i>			
		FLIGHT ID 830815H			
		DATE 15 August 1983			
TAKE OFF (City or airport) KMIA	LAND (City or airport) KMIA	ALTITUDE 1.5K			
PURPOSE To obtain 0600Z fix on T.S. Alicia					
PROPOSED TAKEOFF TIME: <del>0330</del> 0330Z		PROPOSED FLIGHT DURATION: 7 hrs			
TIME IN: 0945Z		TIME ON: 0939Z			
TIME OUT: 0329Z		TIME OFF: 0336Z			
BLK. TIME: 6+17		FLIGHT TIME: 6+03			
FLIGHT PERSONNEL					
OPERATIONS CREW		SCIENTIFIC CREW			
VISITORS					
Noble	Rose	Darby	Calvert	Dorst	
Genzlinger	Adams	Farrish		Feinberg	
Ticknor		Berles			
Correll		Jarvi			
PROPOSED MISSION Fly to 27 N & 92 W (0600Z estimated position of T.S. Alicia). Obtain 0600Z fix.					
<i>note Fig 4 Rec @ 1.5K FT @ Time 0638Z</i>					
ACTUAL MISSION AND REMARKS ATE of 220 <sup>+</sup> (AA) Temp 1. Shifted to INE2 for position info. Flew 4 pattern in T.S. Alicia. First posit at 0601Z - 26° 58' N, 92° 02' W. Second posit at 0702Z - 26° 58' N, 92° 12' W. Went S of center first pass, almost hit it on second. Last pass 1604 was extrapolated pass, max winds ~ 080, 60 kt 25 mi N. of eye.					
DATA COLLECTED AND REMARKS 1 slow tape 3 radar tapes					

FLIGHT TECH: JARVI / BERLES

AIRCRAFT: N42TCF

TIME: (Pre-Flt) 0100Z

FLIGHT I.D.: 830810H

MISSION: TS ALICIA RECCO

(Take-Off) 0336Z (Land) 0939Z

SYSTEM			PRE-FLIGHT	INFLIGHT	POST-FLIGHT		
	ALIGN PI	AID			LAT	LON	GS
NAV	INE1	Φ	✓		+3.1	+0.3	1
	INE2	Φ	✓		+0.7	-0.8	0
	ONE		✓	(4)			
	DOPLR		✓				
R	INTEGRATION (PRI'S)						
A	NOSE	—	✓				
D	L/F	15	✓				
A	TAIL	03	✓				
R	DATA SYSTEM		✓	(3)	(5)		#TAPES: 3
RAMS DATA SYSTEM			✓	(2)	(7)(8)		
TEMP	CAL HI	CAL LO	AMBIENT		CAL HI	CAL LO	
TEMP #1	+30.6	-29.9	+27.4		+31.8	-28.4	
TEMP #2	+30.5	-29.2	+27.2		+31.2	-28.1	
DEW POINT (CLEANED: Y/N)			✓				
ATTACK ANGLE			✓				
SLIP ANGLE			✓				
ABSOLUTE PRESSURE			✓				
DIFFERENTIAL PRESSURE			✓				
RDR ALTM. S/N: SW71-02			✓				
J&W			✓				
PMS	OAP 2D-C		NI				
	OAP 2D-P		NI				
	FSSP-100		NI				
	DATA SYSTEM		NU				#TAPES:
FOIL IMPACTOR			NI				#INCHES:
ICE RATE DETECTOR			✓				
CO2 RADIOMETER			NI				
MICROWAVE RADIOMETER			NI				
SURFACE RADIOMETER			✓				
SEEDER			NI				
GUST PROBE			NI				
ASDL (TEST TRANSMISSION) (M)			✓				#MESSAGES: 6
HARD COPY			NU				
CLEAN MAG TAPE HEADS			✓				
NIMBLOMETER			✓				
F.I.D. PRESS. ALT. RATE				(6)			(COUNTS)
P			(COUNTS)				
H	FORWARD		NU				
O	VERTICAL		NI				
T	RIGHT SIDE		NU				
O	LEFT SIDE		NU				
AXBT SYSTEM			NU				
ODW SYSTEM			NU	(1)			
AXBT EXPENDABLES: #ON BOARD: —				#DROPPED:		#GOOD:	
DROPSONDES: #ON BOARD: —				#DROPPED:		#GOOD:	
CUMMULATIVE ACCEL. (MELC)			#1 (2G)	#2 (2.5G)	#3 (3G)	#4 (3.5G)	
(LOG AT END OF FLIGHT)			8987	5503	3203	2733	

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 ODW MASTER TERMINAL PRINT HEAD NEEDS ADJUSTMENTS & CLEANING. 830816H

- ② MAG TAPE UNIT #1 - 3 PARITY ERRORS IN FIRST 134 FT OF TAPE. ALSO, WHEN LOADING TAPE, DRIVE SPOOL WAS VERY HARD TO TURN. WHILE LOOKING FOR REASON, SPOOL BECAME FREE & TAPE LOAD WAS ACCOMPLISHED NORMALLY.
- ③ RCP 2 "ZOOM ENABLE" FLICKERS ON & OFF, "LEVEL 1" LOCKS IN, CANNOT SELECT OTHER LEVELS. REPLACED WITH S.N. 003 FROM N43 RF.
- ④ CMPTR FAIL LIGHT DURING ENGINE START. SHUT DOWN ONE, WAITED 2 MIN, RESTARTED. POSITION DISPLAY CAME UP ALL ZEROES, CLEARED, ENTERED, TRIED TO RESET POSITION TO NO AVAIL. ONE DISCONNECTED JUST BEFORE TAKEOFF.
- ⑤ ≈ 43542 WHEN HRD PERSONNEL SET DSC-RCP THRESHOLD SETTINGS TO (9, 20, 30, 35, 40, 45) ALL CONTROL OF DISPLAYED LEVELS IS LOST. ALSO SYMPTOMS SIMILAR TO ITEM 3 OCCUR. WHEN SETTINGS ARE SET FOR (3, 8, 19, 24, 28, 35) - IE. LF SETTINGS ALL CONTROL IS NORMAL.
- ⑥ F.D. PRESS. ALTIMETER IN OP. WHERE ARE PRESSURE LINES THAT WENT TO UNIT ON TOP OF CONSOLE? ARE THEY OPEN?
- 7) CHANGE PRINTER RIBBON.
- 8) CLEAN N-RACK FILTERS

A/C COMMANDER	NAVIGATOR	A/C NO.	MISSION NO.	TIME AIRBORNE	LOCATION K MIA 25-48.3 080-17.6	DATE 15 Aug 83	PROJ. NAME Alicia
Bill NOBLE	ADAMS	42RF	830816	0336			

TIME OF ENTRY	POSITION	TYPE	INERTIAL POSITION	LAT LON COR'S	POSITION	LAT LON COR'S	REMARKS
0328	25-48.3 80-17.6	4	25-47.9 080-17.2	+1.4 +1.4	25-47.7 080-17.3	+1.6 +1.3	Block out
0336	25-48.2 80-17.4	4	25- 080-		25- 080-		Toll
0355	25-44 81-25	2	25-47.4 81-17.0	-3.4 +8	25-47.1 81-17.1	-3.1 +7.9	KMIA 273/68 BSY
0400	25-56 81-40.5	2	25-49.0 81-41.2	+7.0 -.7	25-48.7 81-41.3	+7.3 -.8	FMY 164/41 358/20
0410	25-55 82-27	2	25-52.4 82-31.9	+2.6 -4.9	25-52.1 82-32.1	+2.9 -5.1	FMY <del>178/40</del> 216/52.5
041635	25-52.5 82-08	2	25-54.3 83-07.9	-1.8 +1	25-54.0 83-08.2	+1.5 -2	FMY 238/80
0433	25-55 84-32	2	25-59.5 84-35.3	-4.5 -3.3	25-59.2 84-35.8	-4.2 -3.8	256/151 FMY
05	26-44 87-45.5	2	26-35.1 87-51.6	+8.9 -6.1	26-34.7 87-52.3	+9.3 -6.8	LEEVILLE 139/193
0512	26-42.5 88-02	2	26-39.3 88-09.1	+2.8 -7.1	26-38.9 88-09.7	+3.6 -7.5	LEV 142.5/83
0516	26-55 89-30	2	26-44.6 88-31.1	+10.4 -1.1	26-44.3 88-31.8	+10.7 -1.8	LEV 147/160
05225	26-55 85-59	2	26-51.7 89-04.3	+3.3 -5.3	26-51.3 89-05.1	+3.7 -6.1	LEV 156/149
072911	28-11 91-52.3	2	28-07.5 092-00.4	+3.5 -8.1	28-08.1 92-02.3	+2.9 -10.0	LEV 239/110

SYS	BEGIN ALIGN TIME	NCS CONN	Ω AID	TIME OUT OF COARSE	ALIGN STS 0-5	(1) TIME INTO NAV.	(2) TIME OUT NAV.	Δ T (2)(1)	TERMINAL ERROR		
				ELAPSE ALIGN POST TIME					LAT	LONG	G
INS 1	?	✓	✓	/	0	0256	0945	6.8	+3.1	+1.3	
INS 2 IMC	?	✓	✓	/	0	0256	0945	6.8	+1.7	-1.8	

ALIGN REMARKS: NOTE: NGFG COMPUTER SHUT DOWN AT 0326 - INS'S RA.

OTHER REMARKS: FREE ENTIRE FLIGHT.

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

