

RFC-1 WORK FORM
(7-76)U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
RESEARCH FACILITIES CENTER
MIAMI, FLORIDA

AIRCRAFT

42RF

FLIGHT NO.

53-83

FLIGHT ID

830815H

DATE

15 August 1983

FLIGHT LOG

Compl.

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:

~~0330~~ 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.

note Fig 4 rec @ 1.5K FT @ time 0638Z

ACTUAL MISSION AND REMARKS

ATE of 220' (PA) Temp 1. Shifted to INE2 for position into. 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 and pass, start 1st on second. Last pass 1004 mb extrapolated press, max winds ~ 080, 60 kt 25 mi N. of eye.

DATA COLLECTED AND REMARKS

1 slow tape
3 radar tapes

TECH: JARVI / BERUES

FLIGHT I.D.: 830810H

CRAFT: N42TCF

MISSION: TS ALICIA RECCO

TIME: (Pre-Flt) 0100Z

(Take-Off) 0336Z

(Land) 0939Z

SYSTEM			PRE-FLIGHT	INFLIGHT	POST-FLIGHT		
NAV	INE1	⊙	✓		LAT	LON	GS
	INE2	⊙	✓		+3.1	+0.3	1
	ONE		✓		+0.7	-0.8	0
	DOPLR		✓ (4)				
ROAD	INTEGRATION (PRI'S)						
	NOSE	—	✓				
	L/F	15	✓				
	TAIL	63	✓				
R	DATA SYSTEM		✓				
RAMS DATA SYSTEM			✓ (3)	(5)			#TAPES: 3
TEMP	CAL HI	CAL LO	AMBIENT	(7)(8)			
TEMP #1	+30.6	-29.9	+27.4		CAL HI	CAL LO	
TEMP #2	+30.5	-29.2	+27.2		+31.8	-28.4	
DEW POINT (CLEANED: Y/N)					+31.2	-28.1	
ATTACK ANGLE			✓				
SLIP ANGLE			✓				
ABSOLUTE PRESSURE			✓				
DIFFERENTIAL PRESSURE			✓				
RDR ALTM. S/N: SW 71-02			✓				
JEW			✓				
PMS	OAP 2D-C		NI				
	OAP 2D-P		NI				
	FSSP-100		NI				
	DATA SYSTEM		NU				
FOIL IMPACTOR			NI		#TAPES:		
ICE RATE DETECTOR			✓		#INCHES:		
CO2 RADIOMETER			NI				
MICROWAVE RADIOMETER			NI				
SURFACE RADIOMETER			✓				
SEEDER							
GUST PROBE			NI				
ASDL (TEST TRANSMISSION) (W)			✓				
HARD COPY			NU		#MESSAGES: 6		
CLEAN MAG TAPE HEADS			✓				
NIMBROMETER			✓				
F.D. PRESS. ALT.				(6)			
PHOTO		RATE	(COUNTS)			(COUNTS)	
	FORWARD		NU				
	VERTICAL		NI				
	RIGHT SIDE		NU				
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

MASTER TERMINAL PRINT HEAD NEEDS ADJUSTMENTS & CLEANING. 830816H

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 N43RF.
- (4) CMPTR FAIL LIGHT DURING ENGINE START. SHUT DOWN ONE, WAITED 2 MIN, RESTARTED. POSITION DISPLAY CAME UP ALL ZEROS, CLEARED, ENTERED, TRIED TO RESET POSITION TO NO AVAIL. ONE DISCONNECTED JUST BEFORE TAKEOFF.
- (5) @ 3500Z 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

SYS	BEGN ALGN TIME	NCS CORR	Ω AD	THE OUT OF COASTS BLAKE TOWN PORT TIME	ALGN PTS 0-9	TIME		ΔT	TERMINAL ERR	
						(1) TIME INTO NAJ	(2) TIME OUT NAJ		(2)(1) LAT	LONG
0514	24-55	2	22-24.6	26-44.3	0	0456	0945	6.8	+31	13
0530	26-32	2	26-54.7	28-31.8	0	0356	0945	6.8	+7	-8
0725	29-14	2	29-43	28-07.5	0	0356	0945	6.8	+7	-8
	9:52.3	2	052-20.4	52-22.3	0					
ALGN REMARKS: NOTE: NGFB COMPLEX SHUT DOWN 910326-1153 Rn.										
OTHER REMARKS: EXPERIENCE 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										

A/C COMMANDER	NAVIGATOR	A/C NO.	MISSION NO.	TIME AIRBORNE	LOCATION KMIH	DATE	PRO. NAME
Bill NOBLE	ADAMS	42RF	830815	0336	25-48.3 080-17.6	15 Aug 83	Alicia

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-		Tall
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	KMA 273/68 BSY
0400	25-56 81-40.5	2	25-49.0 81-41.2	+7.0 -1.7	25-48.7 81-41.3	+7.3 -1.8	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 178/40 216/52.5
041635	25-52.5 82-08	2	25-54.3 83-07.9	-1.8 +1	25-54.0 83-08.2	+1.5 -1.2	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 147.5/83
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
052215	26-55 85-59	2	26-51.7 89-04.3	+3.3 -5.7	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 0-8	(1) TIME INTO NAV.	(2) TIME OUT NAV.	ΔT (2)(1)	TERMINAL ERROR		
				ELAPSE ALIGN POST TIME					LAT	LONG	G
INS 1	?	✓	✓	/	0	0256	0945	6.8	+3.1	+1.3	
INS 2 INS	?	✓	✓	/	0	0256	0945	6.8	+1.7	-1.8	

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

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)

