

19780903I-FDIR

RFC FLT LOG

1

RFC-1 WORK FORM (7-76)		U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION RESEARCH FACILITIES CENTER MIAMI, FLORIDA		AIRCRAFT N43RF	
				FLIGHT NO. 54-78	
				FLIGHT ID 780903I	
				DATE SEP 3 1978	
FLIGHT LOG					
TAKE OFF (City or airport) MIA		LAND (City or airport) MIA		ALTITUDE 15,07K	
PURPOSE NHEML-CG-RESEARCH HURRICANE ALFA					
PROPOSED TAKEOFF TIME: 1230Z			PROPOSED FLIGHT DURATION: 10 HRS		
TIME IN: 2240Z			TIME ON: 2236Z		
TIME OUT: 1215Z			TIME OFF: 1228Z		
BLK. TIME: 10:25HRS			FLIGHT TIME: 10:08HRS		
FLIGHT PERSONNEL					
OPERATIONS CREW		SCIENTIFIC CREW		VISITORS	
WERLEY		DAVIS		WIRFLE	WITTE
NOBLE		BRUNSON		LAHIEF	CEFALLO
BERGNER		FENNELL		MARTIN	BLACK
ROSE		MURPHY		WERLEY	HICKS
PROPOSED MISSION STORM TRACK 0000/8KTS					
		1,2,3,4,1,5,3 AT 1000'			
		3,2,1,4,2,5,2,3,2,1,2,3 AT 1500'			
		3,2,1 AT 500'			
		15Z, 18Z, 21Z FIXES			
ACTUAL MISSION AND REMARKS					
5,2,3,4,1,5,3,2,1 PENETRATIONS AT 1500' CIRCUMNAVIGATION AT 200' TO 1000' 1510Z 5 3429 7103 975MB WND 200/50KTS ESE QND 1757Z 5 3459 7026 972MB WND 210/54KTS ESE QND UNABLE 21Z FIX-PILOT RADAR SCOPE INOP + FUEL					
DATA COLLECTED AND REMARKS					
1 STD A/C SIG TRACE, 7 HI DEN A/C SIG TRACE, 7 DMTR1 RADAR, 1 LMTRE RADAR, PMS, RS FILM, 6E FILM, F FILM, Y FILM YTD 1000					

NOV 7 RECD

POWELL

1

A/C COMMANDER	NAVIGATOR	A/C NO.	MISSION NO.	TIME AIRBORNE	LOCATION KMH	DATE	PROJ. NAME
Werley	Bergner	NAEKF	780903	1228:01	N 2548.3 W 80-17.6	3 Sept 78	ELLA

TIME OF ENTRY	POSITION	TYPE	INERTIAL POSITION #1/2	LAT LON COR'S	INS #2/2 POSITION	LAT LON COR'S	REMARKS
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1211 1216	N 25-49.3 W 80-17.6		N 25-49.1 W 80-16.9	-0.8 +0.7	N 25-49.3 W 80-16.6	-1.0 +1.0	ENG TAXI
1228							64 KMH
1242	N 25-42.3 W 79-17.7		N 25-43.0 W 79-16.8	-0.7 +1.9	N 25-43.0 W 79-16.7	-0.7 +1.0	O/H 38V
1300			N 26-17.5 W 77-13.7		N 26-17.5 W 77-13.7		
1337			N 28-35.5 W 75-33.6		N 28-35.5 W 75-33.6		
1425			N 32-04.7 W 73-00.7		N 32-04.7 W 73-00.8		NCS Conn-fac. 26/26
1514					N 34-26.0 W 71-07.0		ELLA eye begin pattern
1548			N 34-53.6 W 69-34.8		N 34-53.6 W 69-34.8		
1554			N 35-14.5 W 69-56.1		N 35-14.5 W 69-56.2		34A 3210 Lop thro INS pos.
1642			N 34-18.4 W 72-34.6		N 34-18.3 W 72-34.6		
1712			N 33-50.7 W 70-42.6		N 33-50.7 W 70-42.6		
1758			N 34-58.9 W 70-30.8		N 34-58.8 W 70-30.4		ELLA eye

SYS	BEGIN ALIGN TIME	NCS CONN	Ω AID	TIME OUT OF COARSE	ALIGN STS C-5	(1) TIME INTO NAV.	(2) TIME OUT NAV.	Δ T (2)(1)	TERMINAL ERRORS		
				ELAPSE ALIGN POST TIME					LAT	LONG	G S
INS 1	1128	30	Ω	—	5	1143	2240	10+57	-1.3	-1.2	0
INS 2 or IMU	1128	30	Ω	—	5	1143	2240	10+57	+1.0	+1.0	0

ALIGN REMARKS:

OTHER REMARKS:

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

[illegible]

FLIGHT PERFORMANCE LOG

DATE 9-3-78
MISSION STORMFURY "ELLA"
TIME OUT _____

FLT. TECH. McRORY / FENNEL
A/C N43RF
TIME RTN _____

SYSTEM	PRE-FLIGHT	IN-FLIGHT	POST-FLIGHT	
Nav INE1	✓	✓	✓	
INE2	✓	✓	✓	} ⑨
ONE	✓	✓	✓	
DOPL	✓	✓	✓	
Radar Nose	✓	✓ ⑤	✓ ⑤	
L-F	✓	✓ ⑥	X ⑥	
Tail	NI	NI	NI	
Data Syst.	✓ ①	✓	✓	
RAMS	✓ ②	✓	✓	
Sensors	✓	✓	✓	
Total Temp	✓	✓	✓	
Dewpoint	✓	✓	✓	
Attack Angle	✓	✓	✓	
Slip Angle	✓	✓	✓	
Absolute Pressure	✓	✓	✓	
Differential Press	✓	✓	✓	
Radar Altitude	✓	✓	✓	
J&W	✓	✓	✓	
PMS OAP-2DP	✓	✓	✓	
OAP-2DC	✓	✓	✓	
FSSP	✓	✓	✓	
Data Syst.	✓	✓ ⑦ ⑧	✓ ⑨	
IPC	NI	NI	NI	
Foil Impactor	NI	NI	NI	
CO ₂ Radiometer	NI	NI	NI	
Microwave Radiometer	NI	NI	NI	
Surface Radiometer	✓	✓	✓	
Formvar	NI	NI	NI	
Photography	✓ ③	✓ ④	✓	
AXBT-- Tubes 13 Lds	✓	✓	✓	
Receivers	✓	✓	✓ ④	
ODW	NI	NI	NI	
Seeder	NI	NI	NI	
Gust Probe	NI	NI	NI	

Code: ✓ - Operational; X(#) - Failure (note); NU - Not Used
NI - Not Installed

Notes:

	START CAL		POST CAL	
	HI	LO	HI	LO
#1	30.3	30.1	30.2	30.0
#2	30.8	30.1	30.8	29.9

- VTR ↓
- SELECTING FIXED FORMAT ②
② C3 X KILLS MONITORS ②
F.D ? C.P. (maybe more)
- NOSE CAMERA IN ? OUT (no time to try)
- CHECK DRIVE MOTOR IN CHART RECORDER
- SAME OLD SCORE DROPOUT / CHANGED WITH SPARE, DID NOT COME ON.
- ANTENNA STOPPED ROTATING
- OPERATOR TROUBLE, DID NOT TURN ON TILL LATE
F LATER FOUND CLOCK SWITCH IN "AUTO"
CHANGED L3 MAG Q 19312 OTHERS OUT ? OFF.

COMMENTS ON FPD.

NOSE 111
L3 82
RS K19

SURF 242

INCLIMB? ON LEVEL

NOTE: INBOUND TO STORM LE RADAR DISPLAYED
EYE 125 MILE OUT. NOSE DID NOT INDICATE
UNTIL 25 MILES.

[illegible]

AIRCRAFT 43 RF

DATE 3 Sep '78

DAY # 246

TOTAL REELS

VTR

0

DMTR 1

7

DMTR 2

1

REEL #	TIME ON	TIME OFF	NO	LF	TA	COMMENTS
1	130948	140538	✓	✓	✓	
2	141345	151330	✓	✓	✓	MDS AT 2 DBZ FOR AWHILE.
3	151537	161013	✓	✓		
4	161416	170100	✓	✓		
5	170627	180414	✓	✓		
6	181945	1930??	✓	✓		HIT EOT? LF WENT DOWN
7	193504	195845	✓			NOSE ONLY!

[illegible]

780903T ELLA

1215	OUT MIA
122758	OFF
1249	AT 17K
1412	BGN DESCENT
1421	AT 1.5K
1448	PT 5 BGN PTRN
1510	PT 2 CENTER 3429 7103 975MB WND SSW QUAD 290/43MS
1535	PT 3 WND 200/50 M/S ESE QUAD
1733	PT 3 COMPLETES CIRCUMNAVIGATION
1757	PT 2 CENTER 3459 7026 972MB WND 210/54MS SE QUAD
1820	PT 1 MAX WND 350/37 W QUAD
1845	AT 200'
1848	AT 900'
1917	AT 1500'
2054	END PATTERN
2108	AT 24K
2206	BGN DESCENT
223548	ON
2240	IN