

19780921H1-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 N402F	
				FLIGHT NO. 75-78	
				FLIGHT ID 780921H	
				DATE SEP. 21, 78	
TAKE OFF (City or airport) MIA		LAND (City or airport) MIA		ALTITUDE 14K-20K	
PURPOSE RESEARCH-NHEML-CG-LOCUS					
PROPOSED TAKEOFF TIME: 1800Z			PROPOSED FLIGHT DURATION: 4-5 HRS		
TIME IN: 2145Z			TIME ON: 2142Z		
TIME OUT: 1805Z			TIME OFF: 1833Z		
BLK. TIME: 3:20 HRS			FLIGHT TIME: 3:09 HRS		
FLIGHT PERSONNEL					
OPERATIONS CREW		SCIENTIFIC CREW		VISITORS	
WERLEY	CORRELL	DAVIS		KELLER	WILLIS
GENZLINGER		BRUNSON			LEWIS
NELSON		CANNOR			PARADIS
GERISH		FENNELL			SAX
PROPOSED MISSION TWRG CU PENETRATIONS OVER LAND AND WATER					
ACTUAL MISSION AND REMARKS AS PLANNED 20 PENETRATIONS					
DATA COLLECTED AND REMARKS 1 STD AIC DIG TAPE; HI DEN AIC DIG TAPES; RADAR (N+LF) 2 DMTR1, 2 DMTR2; CLD PHOTO, 1 F, 1 LS, 1 RS; PMS LW INOP AVG INOP TIL 1908Z					

NOV 7 RECD

A/C COMMANDER		NAVIGATOR	A/C NO.	MISSION NO.	TIME AIRBORNE	LOCATION	DATE	PROJ. NAME			
Werley		Gerish Nelson	42RF	780921	18:33 23:10	MIA N25 48.3 W080 17.6	21 Sept 1978	LOCUS			
TIME OF ENTRY	POSITION	TYPE	INERTIAL POSITION	LAT LON COR'S	POSITION	LAT LON COR'S	REMARKS				
1824	N 25 48.3 N W 080 17.6 W		25 48.4 W 080 17.7	-0.1 -0.1	25 49.6 W 080 17.3	-1.3 +0.3	B/K OUT				
1833	N 25 48.0 N W 080 17.6 W		25 48.3 N W 080 18.4	-0.3 -0.8	25 49.5 W 080 17.5	-1.5 +0.1	TAKE OFF. MIA.				
1903 06			26 11.9 N 080 48.9 W		26 11.1 N 080 48.9 W		Cloud A PASS #1 @ 140 KMIAR 305/23				
1907 09					26 08.6 N 080 49.3 W		Cloud A PASS #2 @ 140 KMIAR 299/22				
1911 59			26 11.6 N 080 49.3 W		26 10.5 N 080 50.2		Cloud A PASS #3 @ 183.5 KMIAR 302/23				
1916 13			26 09.2 N 080 49.7 W		26 08.1 N 080 51.0 W		Cloud A PASS #4 @ 201 KMIAR 296/23				
1920 11			26 12.5 N 080 49.4 W		26 11.5 N 080 50.9 W		Cloud A PASS #5 @ 3000 KMIAR 303/25				
1931 40			26 02.9 N 081 02.1 W		26 02.5 N 081 03.5 W		Cloud B PASS #1 @ R 278/31 140				
1933 36			26 02.4 N 081 03.4 W		26 02.3 N 081 04.5 W		Cloud B PASS #2 @ R 278/33 140				
1940 01			26 05.1 N 081 06.9 W		26 05.3 N 081 07.4 W		Cloud C PASS #1 @ R 282/36 139.1				
1942 56			26 04.3 N 081 09.5 W		26 04.7 N 081 09.7 W		Cloud D PASS #1 @ R 280/38 139.4				
2008	25 42.0 N 079 16.0 W		25 43.9 N 079 17.2 W		25 43.9 N 079 16.0 W		Pos #INS update To Bimini Vortec.				
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.	Δ T (2)(1)	TERMINAL ERRORS		
									LAT	LONG	G S
IS 1	1708	N	N		3	1737	2146	4.2	+0.7	+1.2	2.0
S 2 or MU	1708	Y	Y		5	1737			+0.2	-0.1	9.0
ALIGN REMARKS: <i>Y/A except 22 seemed lumpy or 1/2 cleared up after 7/6.</i>											
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]

Wx Trop Fl.

10,000.

National
Oceanic &
Atmospheric
Administration

FLIGHT PLAN

Research
Facilities
Center

PROPOSED T.O.

ACTUAL T.O. 1833.

RTE	TO	TEMP ALT	IAS TAS	TC	VAR	MC	W	V	TH	MH	GS	Zone Time	Total Time	Total Zone Dist	Proposed ETA	ETA ATA
1	KMIA															
	L.O.		260	280	0							+09		40	1842	
2	MARCO BEACON 26 00.0 N. 081 40.5 W	140	280	280	0							+08		38 78		
3	26 33.5 N. FREE PT.															
	078 41.9 W.															
4																
5																
6																
3	R 093/150				+01											
	25 56.5 N. 079 32.5 W															
4	R 093/110				+01											
	25 52.0 N. 078 27.0 W															
5	R-150/110				+01											
	24 23.0 N. 079 27.0 W															
6	R-150/50				+01											
	25 15.0 N. 080 00.0 W															
7	MIA VORTAC															
	25 57.8 N. 080 27.6 W															
8	ORTAN															
	25 47.8 N. 080 23.1 W															
9	Center of Blue Water															
	025 18.0 N. 079 11.6 W (30R)															

ATC CLEARANCE:

ENROUTE CLEARANCES:

FLIGHT PERFORMANCE LOG

DATE 21 SEPT '78
MISSION LOCUS
TIME OUT 1833

FLT. TECH. CONNOR / FENNELL
A/C N42RF
TIME RTN 2142

SYSTEM	PRE-FLIGHT	IN-FLIGHT	POST-FLIGHT
Nav INE1	✓	✓	
INE2	✓	✓	
ONE	✓	✓	
DOPL	NU		
Radar Nose	✓	✓	
L-F	✓	✓	
Tail	NI		
Data Syst.	✓	✓	
RAMS	✓	✓	
Sensors	✓	✓	
Total Temp	✓	✓	
Dewpoint	✓	✓	
Attack Angle	✓	✓	
Slip Angle	✓	✓	
Absolute Pressure	✓	✓	
Differential Press	✓	✓	
Radar Altitude	✓	✓	
J&W	① ✓	④ 1936	
PMS OAP-2DP	✓	⑤ 1946	
OAP-2DC	✓	③ 1920	
FSSP	✓	✓	
Data Syst.	✓	✓	
IPC	✓	✓	
Foil Impactor	②	2	
CO ₂ Radiometer	✓	✓	
Microwave Radiometer	✓	✓	
Surface Radiometer	NI		
Formvar	✓	✓	
Photography	✓	✓	
AXBT-- Tubes	NU		
Receivers	NI		
ODW	NU		
Seeder	NU		
Gust Probe	NI		

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

Notes:

- ① J & W CALIBRATION: 0=0, 2=1.7
- ② NO PWR TO FOIL IMPACTOR
- ③ CLOUD PROBE NOT UPDATING - ALL SLOW DATA LOOKS OK
- ④ CANNOT BALANCE J & W - APPEARS THAT PROBE ELEMENT IS OPEN
- ⑤ PARTICLES ON CRT STREAKED - ALSO DOESN'T SEEM TO BE UPDATING PROPERLY
- ⑥ PARITY ERRORS NOW ON INBOARD TAPE DECK - INDICATING THAT A READ DATA CARD IN READ DATA PC ASSY IS DEFECTIVE. THESE

[illegible]

TOTAL REELS	
VTR	
DMTR 1	2
DMTR 2	2

[illegible][illegible]

780951H LOCUS

						ALT	MAX FWZ	MIN FWZ						
1825	GLT MIA													
183314	OFF					MIA ALT. 30.00								
1842	AT 14K													
	PENET OVR LND													
C1P1	190302-	190316				14K								
	190322-	190334												
C1P2	190705-	190739				14K								
C1P3	191154-	191217				18K	+6	-4						
C1P4	191607-	191642				20K	+3	-4						
C1P5	192006-	192044				20K	+1	-3						
C2P1	193144-	193153				14K								
C2P2	193333-	193341				14K	+2	-3						
C3P1	193958-	194005				14K	-1	-7						
C4P1	194253-	194327				14K	+7	-4						
	PENET OVR WATER													
C5P1	202136-	202139				14K	+4	-3						
C5P2	202443-	202455				14K	+1	-2						
C6P1	202738-	202812				14K	+15	-3						
C6P2	203157-	203216				17K	+14	-3						
C6P3	203603-	203628				19K	+4	-2						
C6P4	204003-	204030				19K	+11	-1						
C6P5	204417-	204445				19.5K	+6	0						
C6P6	204841-	204913				16K	+7	-3						
C6P7	205306-	205332				16K	+1	-1						
C6P8	210144-	210212				17K	+1	-1						
C6P9	210650-	210641				19K	+1	-2						
114157	ON					MIA ALT 29.97								
1145	IN MIA													