

19790911I1-FDIR

1

RFC-1 WORK FORM (7-76) U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION RESEARCH FACILITIES CENTER MIAMI, FLORIDA		AIRCRAFT NM3RF	
FLIGHT LOG		FLIGHT NO. 790911I	
		FLIGHT ID 790911I	
		DATE Sept 11, 1979	
TAKE OFF (City or airport) KMIA	LAND (City or airport) KMIA	ALTITUDE 5K', 1500'	
PURPOSE Hurricane "Frederick" Recon, Fix, + Research			
PROPOSED TAKEOFF TIME: 1930		PROPOSED FLIGHT DURATION:	
TIME IN: 0520		TIME ON: 0515	
TIME OUT: 1931		TIME OFF: 1946	
BLK. TIME: 9:46		FLIGHT TIME: 9:29	
FLIGHT PERSONNEL			
OPERATIONS CREW		SCIENTIFIC CREW	
Turner	Roschy	Sheets ✓	L. Keene
Guelinger	Davy	Gross ✓	W. Schubert
Berger	Goldstein	Stewart	J. Garvin
Ricci	M. Ravy	Hawkins ✓	M. Cassa
PROPOSED MISSION 2100 Hurricane Fix continue long term monitoring for NHEML.			D. Brindley E. Fortenberry Trout.
ACTUAL MISSION AND REMARKS 2100Z fix at 5 kft Monitor penetration, circumnavigate, penetrate at 1500' finished monitor pattern at 5kft.			
DATA COLLECTED AND REMARKS			

25.0'
8.5' 6'

09/11

hours.

10:00
TO
24:00

09/12

00:00
TO

190911 "Frederick"

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5000'

26 06
86 23

Time	Ln	Lo	W _s	W _p	T _n	T _D	R _n	R _a	S _p	SST	Trk			
0140	25.1	85.3	30	213	19	16	1474	1546	992	24.6	322			
0150	25.6	85.7	40	228	14	19	1437	1600	977	24	325			
0156	26.0	86.0		5000'	Eye	01562			956					
					22	17	1417	1793		27				
0210	25.4	86.8	26	335	19	15	1605	1660	995	24	230			
0215	25.2	87.1	21	331	19	17	1534	1576	997	23				
0225	25.6	86.5	27	326	20	18	1509	1633	986	25	49			
0230	25.7	86.3	38	320	20	18	1471	1681	977	24	52			
0235	26.0	85.94	20	175	22	17	1532	1901	957	26	50			
0240	26.1	85.7	46	174	17	19	1532	1751	978	21	49			(954m) mixed
0250	26.5	85.2	36	143	19	17	1550	1604	995	23	55			
0255	26.7	84.9	31	178	19	18	1467	1500	998	21	225			
0300	26.6	85.0	28	145	18	18	1540	1574	947	22	248			
0305	26.4	85.4	38	140	18	18	1520	1609	992	23	230			1583
0310	26.2	85.6	46	152	18	18	1488	1648	983	20	223			1964
0314	26.1	86.2		EYE	21	18	1578	1913	954	26	236			
0340	25.4	87.4	19	344	19	17	1518	1562	997	24	66			0357
0345	25.6	87.0	21	332	19	16	1490	1562	994	24	66			
0350	25.8	86.7	36	330	20	18	1486	1641	983	24	61			26.10
0357	26.1	86.3		EYE	20	18	1588	1964	954	24				66.28
0405	25.9	85.8	42	212	19	19	1493	1638	985	23	131			955

26 05

86 16

958

Page 1

1500'

790911

"Frederick"

Time	Lat	Long	W _s	W _d	T _a	T _d	P _a	P _d	S _p	S _d	T _{rk}		
2025	25.2	82.8	13.3	174	-3.2	-1.7	4528	4947	004	12.5	264		
2030	25.2	83.1	18.8	168	-2.6	-0.4	4926	4697	004	13.2	273		
2035	25.1	83.6	22.0	176	7	12	2076	1974	003	21.7	277		
2040	25.1	84	26	156	11	17	1537	1574	102	21.3	274	80 min. to radar off	
2045	25.2	85	21	175	12	18	467	1545	997	22.4	266	60 min. to "	
2050	25.2	85	27	176	12	19	1520	1652	990	20.8	266		
2055	25.2	85.1	26	202	12	19	1425	1677	952	22.2	292		
2101	25.4	85.5			Frederick Eye Fix						Track	330	
2120	24.6	86.6	19	333	12	17	1519	1564	001	22	250		
Descend to 1500' for research pattern													
2125	24.5	86.7	14	313	16		557	628	000	26	60	Start 1500' pattern	
2130	24.8	86.4	16	307	16	22.6	960	524	996	27	53		
2135	25	86.2	22	312	22	22	453	603	993	27	55	RAW TA TO	
2140	25.1	85.9	34	306	32	22	452	668	985	28	54	"	
2210	26.7	85.4	32	76	25	23	498	601	997	25	217	Display TA, TD	
2215	26.9	85.5	30	70	24	23	490	588	998	27	242		
2220	26.7	85.4	33	65	24	23	480	590	997	26	259		
2225	26.6	86.2	32	60	24	23	482	587	997	26	245		
2230	26.5	86.6	25	42	24	22	485	586	997	27	246		
2245	26.3	86.9	25	40	24	22	468	582	998	27	200		
2250	26.1	87.0	17	20	24	23	487	586	997	26	175		
2325	24.5	85.5	23	248	25	23	482	588	997	26	102		
2330	24.4	85.0	22	226	25	22	489	527	998	27	9		
2335	24.8	84.9	35	200		23	471	587	006		20	SST NG	
2340	25.8	84.7	27	145	24	24		588	936	8.5	18	SP NG	
2355	26.2	84.7	24	130	25	23		585			304		
0000	26.4	85.2	39	006	24	24		588			292		
0005	26.5	85.6	41	90	24	24		589			283		
0010	26.6	86.2	42	48	22	22		615			277		
0015	26.8	86.5	38	52	24	23		594			215		
0020	27.0	86.7	32	57	24	23		570			340		
0030	27.2	87.3	26	39	25	23	475	550	001	28	280		
0040	27.2	87.4	19	40	25	23	471	547	000	28	124		
0045	27.1	87.0	24	34	26	22	456	551	998	26	97		
0050	26.8	86.8	23	39	24	22	478	584	997	27	134		
0055	26.6	86.3	30	40	23	23	451	584	994	23	135		
0100	26.4	86.3	32	40	24	23	480	662	987	27	130		
0110	25.9	85.9	4	49	25	25	487	929	957	27	136		
201152	Max	1500'			Winds						120 Kts	240°	
0120	25.4	85.5											
0125	25.1	85.4	28	226	24	22	496	629	994	26	147		

RFC-3 WORK FORM
(7-76)U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
RESEARCH FACILITIES CENTER
MIAMI, FLORIDA

PHOTO - OPTICAL STATION

FLIGHT ID

790911I

DATE

11 Sep 79

INSTRUCTIONS: Make all entries in pencil. At Flight Termination give completed form to the Flight Director.
Mark all film cans with Flight ID, Type, and Number. All Times GMT (Z).

CAMERA	ON	OFF	ON	OFF	RATE	FILM USED (FT.)
FOREWARD	2000				5	400
RIGHT SIDE	2000				5	400
LEFT SIDE	2000				5	400
VERTICAL	2000				5	400

ELAPSED TIME COUNTERS

DIGITAL	COUNTER	DIGITAL	COUNTER	DIGITAL	COUNTER

REMARKS:

790911 I PENET

2101	2524	8534	965
2150	2536	8532	963
0111	2550	8555	958
0156	2559	8603	958
0235	2558	8601	955
0320	2602	8617	956
0358	2607	8616	956
	2543	8556	

106
106
2120

2335
1940
—
4

38.879/10 sec
3.24
0.38/10 sec

790911I FREDERIC

1940 - 05/15

		LA	LO	ΔTIME		LA	LO
181000	(1)	24.83	085.32	10 260		25.42	086.50
210100	(2)	25.42	085.50	08 940		25.55	085.78
233000	(3)	25.55	085.78	08 580		25.92	086.02
255300	(4)	25.92	086.02	04 800		26.05	086.27
271300	(5)	26.05	086.27	07 320		26.15	086.55
291500	(6)	26.15	086.55	03 900		26.55	086.52
302000		26.55	086.52				

A/C COMMANDER	NAVIGATOR	A/C NO.	MISSION NO.	TIME AIRBORNE	LOCATION	DATE	PROJ. NAME
Turner	Bergner	N43RF		1945191	KMIA N25-48.3 W80-17.6	11 Sept 79	"FRED"

TIME OF ENTRY	POSITION	TYPE	INERTIAL POSITION	LAT LON COR'S	INS #/0 POSITION	LAT LON COR'S	REMARKS
1929 1934	N 25-48.3 W 80-17.6		N 25-48.3 W 80-17.6	1 1	N 25-48.3 W 80-17.6	1	ENG 7H41
1940							Top
2010	N 25-12 W 81-24.5		N 25-14.9 W 81-25.0	-2.9 -0.5	N 25-14.9 W 81-24.8	-2.9 -0.3	BSY 24607/72.5
2101			N 25-23.3 W 81-31.4		N 25-23.3 W 85-30.8		eye "FRED" (FIX)
2126			N 25-23.6 W 85-27.9		N 25-23.9 W 85-27.5		eye "FRED"
2252	N 25-51.0 W 86-59.0		N 25-51.5 W 87-00.3	-0.5 -1.3	N 25-52.5 W 86-59.0	-1.5 0.0	3H0 - 24-30 3H1 - 2540
0110			N 25-50.9 W 85-56.0		N 25-51.9 W 85-55.0		eye "FRED"
0156			N 25-58.9 W 86-00.9		N 25-59.0 W 86-00.3		eye "FRED"
0210			N 26-25.9 W 86-46.2		N 26-26.8 W 86-44.5		3H0 - 2260 CE 1.5 NM
0236			N 26-00.2 W 85-57.6		N 26-00.8 W 85-56.5		eye "FRED"
0259	N 26-36.0 W 84-58.0		N 26-36.1 W 84-58.5	-0.1 -0.5	N 26-36.4 W 84-57.4	-0.4 +0.6	3H0 2040 3H1 3220
0319			N 26-05.3 W 86-12.5		N 26-05.8 W 86-10.9		eye "FRED"

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 ERRORS		
				ELAPSE ALIGN POST TIME					LAT	LONG	GS
INS 1	1847	32	Ω	—	2	1929	0521	9.52	+1.2	+0.8	1
INS 2 or IMU	1847	32	Ω	—	0	1929	0521	9.52	+0.8	+0.7	1

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]