

19510910I - FAR

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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 N43RF	
FLIGHT LOG		FLIGHT NO. 37-81	
		FLIGHT ID 810910I	
		DATE SEPT. 10 1981	
TAKE OFF (City or airport) MIA	LAND (City or airport) MIA	ALTITUDE 5000' PA	
PURPOSE Hurricane Gert			
PROPOSED TAKEOFF TIME: 1930Z		PROPOSED FLIGHT DURATION: 10 HRS	
TIME IN: 0510Z		TIME ON: 0504	
TIME OUT: 1925Z		TIME OFF: 1936	
BLK. TIME: 9.7		FLIGHT TIME: 9.5	
FLIGHT PERSONNEL			
OPERATIONS CREW		SCIENTIFIC CREW	
VISITORS			
GUNNOE		HAYDU	CALVERT
GENZLINGER		PARADIS	WILLOUGHBY
NELSON		GOLDSTEIN	WIGGERT
CICIRELLI		JARVI	GRIFFIN
PROPOSED MISSION Long term monitoring Experiment			
ACTUAL MISSION AND REMARKS Completed basic pattern twice 21Z 25° 34' N 74° 10' W 70 KTS 996 mbs 00Z 26° 27' N 73° 52' W 75 KTS 995 mbs 03Z 27° 14' N 73° 28' W 70 KTS 995 mbs			
DATA COLLECTED AND REMARKS 1 slow tape 1 p/o 2 fast tapes (511L)			
9 PSM tapes 2 Radar tapes (NHR 2) 8 penetrations			

Huric

SAIL need a listing

TIME	TK	LA	LO	RA PA	TA	TD	WD	WS	SP	B
1949	71	25.5	79.9	16071560	19	12	283	4	1008	141552 DOPPLER
on remote calibration					HDG 090					
HDG	045°	20	0150	-0350	160-170 kt 2 KTS					
	135°	20	0510	-0910	180 ^B 14 KTS - ^E 220 14 KTS					
	045°	20	1015	-1215	2415 14 KTS					
2018	090	25.8	77.8	53001554	18	13	300	15	1008	
2032	100	25.8	76.7	53001550	18	12	335	5	1009	
2052	090	25.6	75.0	15751546	18	12	332	8.7	1006	1472
open W-SW C35										
2057		25.5	74.6	15561540	18	13	337	14	1005	1465
2101		25.5	74.4	15231540	19	16	360	14	1000	1478 ¹⁰¹⁰
2103		25.56	74.18		1403		996			
		34	10				995			
2103			T 21		TD 16				35 KTS	
NA SST										
70KT 25.6 73.8 70KT F										
25.6/73.7 170/ 65 SFC										
2103Z		25° 10' N	74° 10' W				70KT			1403
2103Z		PA 1562								
2103Z		2122Z								
(2) → (1)										
start run to pt. 5										
2132		SFC WIND 15 KTS		26.30						
2134	330	26.4	73.2	15771527	17	15	166	19	1009	1503
2145	211	26.4	73.7	15701533	17	15	150	25	1008	1492
run (5) → (2) 2140 - 2156										

N-S

50-30 2155

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OPEN W-S

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TIME	TK	LA	LO	RA	PA	TA	TD	WD	WS	SP	
2152	206	26.05	73.97	1587	1570	17	22	114	24	1000	
in connection											
2156	25.81	74.08	992	993	1392	center					
run ② - ④ 2157 - 2216											
run ④ - ⑦ 2216 - 2237											
1000' run between ④ & ⑦											
222030 - 2530											
2231	090	24.7	73.6	1574	1512	17	14	213	23	1011	1516
ch #2 not plotting											
run ⑦ - ② 2238 - 2303											
2243	330	25.1	73.35	1569	1508	20	12	210	22	1009	1509
outside eyewall											
220 45/50 AT 224500											
2246	300	25.2	73.5	1565	1513	17	15	210	22	1010	1500
just outside eyewall											
2251	320	25.4	73.75	1578	1559	17	17	235	25	1007	1499
2254	320	25.6	73.9	1587	1556	16	16	250	19	1005	1472
2 55-60 225630Z 230											
2300	16	26.0	74.03	1520	1557	20	17	280	8	997	1414
2303		26.10	74.02	1556		20	17			997	1413
center fix 26.10 74.02 60 = .6 .10 26.06 74.01 100 = 1											
015 at 16 KTS											
run ③ - ⑥ 2303 - 2322											
run ⑥ - ③ 2323 - 2338											
1000' 2615 - 3115 laser run no gear											
2333	211	26.68	75.20	1611	1555	18	15	330	3	1009	1502
equipment mal.											
run ③ - ② 2339 - 2359											
2340	090	26.4	75.2	1596	1542	19	12	360	5.5	1009	1503
2347	090	26.35	74.8	1594	1544	18	12	340	11	1009	1494
2350	090	26.35	74.4	1573	1541	18	13	325	6	1006	1483

C 25 open SW-SE

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10/17

TIME	TK	LA	LO	RA PA	TA	TD	WD	WS	SP	
2354	072	26.4	74.2	1554 1546	17	17	030	13	1004	1450
2356	080	26.4	74.0	1522 1543	18	18	010	12	1000	1420
2358	090	26.45	73.9	1491 1539	22	18	360	3.2	995	1401

26.45 73.89

995

2359Z

794

26.45 73.85

1394

22 TD=16

117

26.27

73.52

PA 1489

180

26.46

73.51

75 KNOTS

017 AT 19 KTS

run ② - ①

000000Z - 0021Z

run ① - ⑤

0022Z - 0041Z

0023	333	26.6	72.2	1620 1543	17	15	180	21	1012	1527
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run ⑤ - ②	0042 - 0102
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0042	215	27.85	73.05	1617 1541	18	14	155	18	1012	1528
0040	218	27.5	73.3	1612 1557	16	15	160	21	1012	1515
0055	210	27.7	73.5	1649 1611	16	16	143	26	1007	1489
0059	204	26.72	73.7	1561 1574	16	16	130	31	978	1434
0101	203	26.81	73.7	1479 1512	20	20	125	14	98	1417

0102	26.74	73.76	996	1400	995	5.11				
0106	207	26.5	73.9	1518 1514	17	17	270	25	1006	1477

run ② - ④

0104 - 0121

01103	211	26.25	74.0	1553 1513	17	17	255	15	1007	1496
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OPEN SE

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TIME	TK	LA	LO	RA	PA	TA	TD	WD	WS	SP	HT
run ④ - ⑦			0122	- 0140							
0135	088	25.6	73.2	1612	1539	19	14	233	21	1011	1526
run ⑦ - ②			0141	- 0203							
0146	332	25.9	72.9	1608	1537	19	14	220	24	1010	1519
0157	330	26.6	73.4	1560	1538	17	14	220	40 33	1006	1467
0159	313	26.8	73.5	1521	1536	20	18	220	25	999	1431
0201	308	26.8	73.6	1501	1537	22	15	220	19	976	1411
0202	306	26.9	73.6	1493	1537	22	15	240	10	975	1404
0203		59		41		6 NA					
center		26.97 N	73.68 W			996		HT 1403		996	
fix max wind 75 KTS								TA 20	TD 17	1538	PA
run ② - ⑥			0205	- 0223							
0208	327	27.2		1586	1555	18	15	080	13	1008	1485
0212	334	27.5	74.0	1597	1551	18	14	045	11	1004	1504
0216	331	27.75	74.5	1670	1580	19	12	070	9	1011	1516
0222	332	28.1	74.4	1618	1543	17	14	100	5	1012	1526
run ⑥ - ③			0224	- 0239							
0225	207	28.1	74.5	1617	1543	18	12	090	5	1012	1525
0230	207	27.85	74.7	1614	1544	18	13	020	7	1011	1523
0237	209	27.4	75.0	1603	1543	18	13	350	7	1011	1518
run ③ - ②			0240	- 0258							
0244	090	27.25	74.7	1626	1559	18	12	340	9	1011	1517
0247	090	27.3	74.5	1618	1557	17	13	350	13	1010	1510
0249	091	27.3	74.3	1607	1554	17	14	350	15	1010	1508
0251	091	27.3	74.1	1600	1555	18	12	345	16	1008	1494
0255	088	27.3	73.85	1575	1553	18	16	360	21	005	1466
0257	100	27.3	73.6	1534	1574	19	18	50	12	999	1435
0258	27.23	73.55				TA 22	TD 16			995 SP	139.1
0303	27.19	73.49								1527 PA	
	27.12	73.30								994 CBP	
190 / 32		27.22	73.03							70 KTS	
190 / 33		27.22	72.94								

TIME	TK	LA	LO	RA	PA	TA	TD	WD	WS	SP	HT
0336	240	27.1	74.1	1615	1504	18	17	320	11	1010	1506
going up to go home at 03382											
LINE differ by 3.5 miles on this heading											
overall 6 miles											
0349	244	26.75	75.0	5802	5513	-4.5					
HDG 245											
HDG 290 035050 - 035250 262/9											
HDG 200 035420 - 5820 270/8											
HDG 290 035950 - 040150 245/7											
040635 240 26.3 76.2 5797 5510 -5.6 -18 218/7											
260/5											
215 1.3											
0419	267	25.91	77.22	5798	5510	-6.3	-11.4	210/4			
LINE are 10 miles off on V											
212 OK 26° 28' 10 mi											
032 73° 35' 55W											
002 10 mi 26.1° 78.4°											
0451	302	25.91	79.77	1727		15	11	265	2	1013	

A/C COMMANDER	NAVIGATOR	A/C NO.	MISSION NO.	TIME AIRBORNE	LOCATION	DATE	PROJ. NAME
Bunroe	WEL	43PF	810910	1936	N 25 48.7 W 080 17.6	10 SEP. 81	GER TS

TIME OF ENTRY	POSITION	TYPE	INERTIAL POSITION	LAT LON COR'S	POSITION	LAT LON COR'S	REMARKS
1926	N 25 48.0 W 080 17.6	4	48.3 17.5		48.2 17.6		BLK
1936	N 25 48.1 W 080 16.2	4	48.2 16.3		48.0 16.3		27 R. VOMEA.
1957	N 25 42.8 W 079 17.8	2/4	N 25 42.5 W 079 17.4		N 25 42.1 W 079 17.8		ZBV OVER. I Dop ON
2103		9/7	N 25 34.5 W 074 11.1		N 25 34.2 W 074 10.8		9.
2156		9/7	N 25 48.3 W 074 03.3		N 25 48.3 W 074 05.1		9.
2303		9/7	N 26 05.5 W 073 58.7		N 26 06.5 W 074 01.4		9.
2359		9/7	N 26 25.6 W 073 49.3		N 26 27.3 W 073 51.6	-9 +9	9.
0103		9/7	N 26 41.5 W 073 42.2		N 26 44.5 W 073 45.8	-12 +5	9.
0203		9/7	N 26 55.1 W 073 36.8		N 26 59.7 W 073 41.0	-15 +6	9.
0303		9/7	N 27 08.4 W 073 25.4		N 27 14.4 W 073 28.6	-18 +7	9.
0440	N 25 42.3 W 079 17.3	9/7	N 25 56.7 W 079 04.6		N 26 05.4 W 079 09.0	-21 +18	ZBV OVER. I Dop
0504		4	N 26 02.2 W 080 03.5		N 26 11.6 W 080 08.4	-24 +9	LDG MEA. 36.

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 ERRORS		
				ELAPSE ALIGN POST TIME					LAT	LONG	G S
INS 1		Y	?		0	1900					
INS 2 or IMU		Y	?		0	1900					

ALIGN REMARKS:

OTHER REMARKS: IN FIT Doppler Problems begin @ 2130

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]