

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

FLIGHT LOG

AIRCRAFT: *N43RF*
 FLIGHT NO.: *37-81*
 FLIGHT ID: *810910 I*
 DATE: *SEPT. 10 1981*

TAKE OFF (City or airport): *MIA* LAND (City or airport): *MIA* ALTITUDE: *5000' PA*

PURPOSE: *Hurricane Gert*

PROPOSED TAKEOFF TIME: <i>1930Z</i>	PROPOSED FLIGHT DURATION: <i>10 HRS</i>
TIME IN: <i>0510Z</i>	TIME ON: <i>0504</i>
TIME OUT: <i>1925Z</i>	TIME OFF: <i>1936</i>
BLK. TIME: <i>9.7</i>	FLIGHT TIME: <i>9.5</i>

FLIGHT PERSONNEL					
OPERATIONS CREW		SCIENTIFIC CREW		VISITORS	
<i>GUNNOE</i>		<i>HAYDU</i>	<i>CALVERT</i>	<i>SOUKUP</i>	
<i>GENZLINGER</i>		<i>PARADIS</i>	<i>WILLOUGHBY</i>	<i>BOVETTE</i>	
<i>NELSON</i>		<i>GOLDSTEIN</i>	<i>WIGGERT</i>	<i>TOMCHEY</i>	
<i>CICIRELLI</i>		<i>JARVI</i>	<i>GRIFFIN</i>		

PROPOSED MISSION: *Long term monitoring Experiment*

ACTUAL MISSION AND REMARKS

Completed basic pattern twice

<i>21Z</i>	<i>25° 34' N</i>	<i>74° 10' W</i>	<i>70 KTS</i>	<i>996 mbs</i>
<i>00Z</i>	<i>26° 27' N</i>	<i>73° 52' W</i>	<i>75 KTS</i>	<i>995 mbs</i>
<i>03Z</i>	<i>27° 14' N</i>	<i>73° 28' W</i>	<i>70 KTS</i>	<i>995 mbs</i>

DATA COLLECTED AND REMARKS

<i>1 slow tape</i>	<i>9 PSM tapes</i>
<i>1 p/o</i>	<i>2 Radar tapes (NHR 2)</i>
<i>2 fast tapes (SAIL)</i>	<i>8 penetrations</i>

Huric

SAIL need a listing

TE	TR	LA	LO	RAPA	TA	TD	WD	WS	SP	3
449	71	25.5	79.9	16071560	19	12	283	4	1009	1955 POPLE
en route calibration				HDG 090						
HDG	045°	20	0150	-0350	160-170		at 2 KTS			
	135°	20	0510	-0910	180 ^B / 4 KTS		- 220 ^F / 4 KTS			
	045°	20	1015	-1215	245 / 4 KTS					
2018	090	25.8	77.8	53001554	18	13	300	5	1008	
2032	100	25.8	76.7	53001550	19	12	335	5	1009	
2052	090	25.6	75.0	15751546	18	12	332	8.7	1006	1475
open W-SW				C 35						
2057		25.5	74.6	15561540	18	13	337	14	1005	1465
2101		25.5	74.4	15231540	19	16	360	14	1000	1428
2103		25.56	74.18		1403		996 995		35 KTS	
2103		34	10	T 21	TD 16		3		5	
NA SST										
70KT		25.6	73.8	70KT		F				
25.6/73.7		1701		68		SFC				
2103Z	25° 10' N	74° 10' W		70KT		1403				
2103Z	PA 1562									
	2122Z									
② → ①										
start run to pt. 5				2123 -		2138				
2132	SFC WIND	15 KTS		26.30		73		2		
2134	330	26.4	73.2	15771527	17	15	166	19	1007 1008	1503
2145	211	26.4	73.7	15701533	17	15	150	25	1008	1492
run	⑤ → ②	2140 -		2156						

IE	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
eh # 2 not plotting										
run ⑦ - ② 2238 - 2303										
2243	330	25.1	73.35	1569	1509	20	12	210	22	1009 150
outside eyewall										
220 45/50 AT 224500										
2246	300	25.2	73.5	1565	1513	17	15	210	22	1010 150
just outside eyewall										
2251	320	25.4	73.75	1578	1559	17	17	235	25	1007 149
2254	320	25.6	73.9	1587	1556	16	16	250	19	1005 145
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 14
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 eye equipment made										
2333	211	26.68	75.20	1611	1555	18	15	330	3	1009 150
run ③ - ② 2339 - 2359										
2340	090	26.4	75.2	1596	1542	19	12	360	5.5	1007 150
2347	090	26.35	74.9	1594	1544	18	12	340	11	1009 1494
2350	090	26.35	74.4	1573	1541	18	13	325	6	1006 1483

ME	TK	LA	LO	RA PA	TA	TD	WD	WS	SP
254	072	26.4	74.2	1554 1546	17	17	030	13	1004 145
356	080	26.4	74.0	1522 1543	18	18	010	12	1000 142
2358	090	26.45	73.9	1491 1539	22	18	360	32	095 140

26.45 73.89

995

23592

994

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

0000002 - 00212

run 1 - 5

00222 - 00412

0023	333	26.6	73.2	1620 1543	17	15	180	21	1012 152
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run 5 - 2

0042 - 0102

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	27.1	73.5	1649 1511	16	16	145	26	1007 1488
0059	204	26.72	73.7	1561 1574	16	16	170	31	978 1434
0101	203	26.8	73.7	1479 1512	20	20	125	14	986 1410

0102

26.74

73.70

996

1400

995

SAIL
ERR

0106	207	26.5	73.9	1518 1514	17	17	270	25	1006 1477
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run 2 - 4

0104 - 0121

01103	211	26.25	74.0	1553 1513	17	17	285	19	1007 1406
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OPEN SE

ME	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	25.7	72.9	1607	1537	19	14	220	24	1010	1519
0157	330	26.6	73.4	1560	1538	17	14	220	46 33	1006	1467
0159	313	26.8	73.5	1521	1536	20	18	220	25	979	1431
0201	308	26.8	73.6	1501	1537	22	15	220	19	975	1411
0202	306	26.9	73.6	1493	1537	22	17	240	10	975	1404

0203 center for area wind 75KTS

59 41 6Np PSP 996

26.97 N 73.68 W

HT 996

TA 20 TD 17 PA 1538

run ② - ⑥			0205	- 0223							
0208	327	27.2	74.0	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	1527
0237	209	27.4	75.0	1613	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	1490
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	1425

0258 27.23 73.55 TA 22 TD 16 995 SP 13.9.1

0303 27.19 73.49 1527 PA

27.12 73.30 994 CBP

70KTS

190/32	27.22	73.03
190/33	27.22	73.94

ME	TK	LA	LO	RA	PA	TA	TD	WD	WS	SP	HT
336	240	27.1	74.1	1615	1504	18	17	320	11	1010	1506
going up to go home at 0338Z											
LINE differs by 3.5 miles on this reading											
overall 6 miles											
0349	244	26.75	75.0	5802	5513	-4.5					

H DG 245

H DG 290 035050 - 035250 262/9
270/8

H DG 200 035420 - 5820 245/7

H DG 270 035950 - 040150 210/7
235/7

040635	240	26.3	76.2	5797	5510	-5.6	-18	260/7			
								215		1.3	

0419	267	25.91	77.22	5798	5510	-6.3	-11.4	210/4			
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LINE are 10 miles off on V

21Z OK

03Z

26° 26' 10 mi

73° 35' 55W

00Z 10 mi 26.75

0451	302	25.91	79.77	1727	15	11	265	2	1013		
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A/C COMMANDER	NAVIGATOR	A/C NO.	MISSION NO.	TIME AIRBORNE	LOCATION	DATE	PROJ. NAME
Bunnoe	WELs	438F	810910	1936	N 25 48.7 W 080 17.6	10 SEPT. 81	GERT OTS

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		BIC
1936	N 25 48.1 W 080 16.2	4	48.2 16.3		48.0 16.3		27 R. VOMED.
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		9/4	N 25 34.5 W 074 11.1		N 25 34.2 W 074 10.8		⊙
2156		9/4	N 25 48.3 W 074 03.3		N 25 48.3 W 074 05.1		⊙
2303		9/4	N 26 05.5 W 073 58.7		N 26 06.5 W 074 01.4		⊙
2359		9/4	N 26 25.6 W 073 49.3		N 26 27.3 W 073 51.6	-9 +9	⊙
0103		9/7	N 26 41.5 W 073 42.7		N 26 44.5 W 073 45.8	-12 +5	⊙
0203		9/7	N 26 55.1 W 073 36.8		N 26 59.7 W 073 41.0	-15 +6	⊙
0303		9/7	N 27 08.4 W 073 25.4		N 27 14.4 W 073 28.6	-18 +7	⊙
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 +8	ZBV OVER. I Dop
0504		4	N 26 02.2 W 080 03.5		N 26 11.6 W 080 02.4	-24 +9	LDG MEA. 9L

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.	ΔT (2)(1)	TERMINAL ERROR		
									LAT	LONG	GS
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

