

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

AIRCRAFT
N42RF

FLIGHT NO.
42-81

FLIGHT ID
810910H

DATE
SEP 10 81

FLIGHT LOG

TAKE OFF (City or airport)

MIA

LAND (City or airport)

MIA

ALTITUDE

SK

PURPOSE

NHRL-RESEARCH HURRICANE GERT

PROPOSED TAKEOFF TIME: 1030Z

PROPOSED FLIGHT DURATION: 10HRS

TIME IN: 2045Z

TIME ON: 2037Z

TIME OUT: 1055Z

TIME OFF: 1104Z

BLK. TIME: 9:50HRS

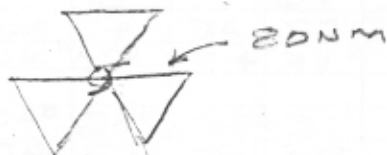
FLIGHT TIME: 9:35HRS

FLIGHT PERSONNEL

OPERATIONS CREW		SCIENTIFIC CREW		VISITORS	
TURNER	WILSON	DAVIS		JORGENSEN	MARK
MANDELBERG		DEYIVO		ZIPSER	HOUSE
ROSE		FELLES	MURPHY	FEINBERG	
ADAMS		CONNOR	VOIT	WILLIS	

PROPOSED MISSION

LONG TERM MONITORING PATTERN



42 HRS TRACK 167, 157, 122 FIXES

ACTUAL MISSION AND REMARKS

AS PLANNED

10 PENETRATIONS - 5 FINES UNTD

1800Z 23028'N 74020'W 1000MB 1400/55KTS

1456Z 24001'N 74030'W 1000MB 1200/60KTS

1045Z 24002'N 74031'W 998MB 1050/65KTS

1819Z 24002'N 74022'W 996MB 1250/68KTS

1918Z 25004'N 74020'W 996MB 1750/68KTS

DATA COLLECTED AND REMARKS

1 STD FLT LVL TAPE; 11 RADON TAPE; 14 CTD PHT TAPE;
F, L, R CTD FILM

USE INEG TA 1

10 H S GERT

TRK	LA	LO	RA	PA	D	74	7D	VID	US	SP
138	OUT MIA									
138	MIA	ALT 29.91								
138	201 25 02	77 94	48014596			0	-10	273	05	
138	201 24 42	76 44	15911528	60		19	10	024	04	010
138	100 24 33	75 93	15901528	62		18	15	030	07	011
138	101 24 25	75 52	15251526	58		18	15	040	08	010
138	098 24 17	75 02	15771523	57		18	14	045	08	010
138	155 24 04	74 73	15791523	55		17	17	070	08	010
138	120 23 66	74 43	15531523	51		16	16	090	12	009
138	100 22 52	74 28						125	17	
138		47	40	1516	1526	-7	20	17	340	04
138		42	50					170	07	
138		41	50					180	05	
138	330	22'	740	20'						500
1316	201 23 46	73 11	15931522	70		17	14	175	03	010
1322	271 23 46	73 49	15911527	63		16	14	175	04	010
1328	263 23 42	73 91						172	02	011
1328	202 22 21	74 31	15361523	5		18	18	220	20	007
1326	297 23 43	74 42	15251522	7		21	12	220	01	000
1326	202 22 21	74 30								52
1352	158 23 45	75 08	15721522	56		17	17	345	04	010
1405	089 23 05	74 23	15671509	64		17	16	225	02	011
1418	202 23 26	74 41	15271512	-11		22	12	345	02	002
1418	200 23 52	74 25								53
1448	135 24 47	74 84	15861526	61		19	10	060	13	009
1448	205 22	51	15141527	-13		21	17	360	02	006
1448	205 01'	74 30'								54
1531	265 24 22	73 51	303 302	0		23	22	165	20	011
1531	15	24						160	15	
1545	24 14	74 52	300 403	-103		26	23	270	03	952
1545	24 08'	74 31'								55
1633	240 241	740 31'						180	20	56
1720	24 55	74 38								
1718	24 58	74 48								
1718	24 33'	74 25'								998 57
1804	270 24 57	73 88	430 446	-15		22	20	180	30	008
1804	24 55	74 14						125	35	
1816	24 22	74 46	455 561	-106		25	22	360	03	997
1819	24 26	74 46	442 551	-112				360	04	996
1819	24 52'	74 22'								58
1844	092 24 91	75 00	15751532	42		18	15	260	13	
1850	24 98	74 45	1409 1534	-51		23	15	060	03	996
1850	240 59'	74 27'								59
1909	268 25 06	73 73	15961554	41		16	15	170	28	009
1909	25 06	74 04						170	35	
1912	25 16	74 06	1524 1564	-23		26	12	174	01	995
1912	25 01'	74 22'								510
200400 - 200600								200730 - 201130		406 300
201330 - 201530								ALT 29.99		1010.5
2039012	20	2045	10							

PILOT	NAVIGATOR	A/C NO.	MISSION NO.	TIME AIRBORNE	LOCATION	DATE	PROJ. NAME
TURNER	ADAMS	N42RF	810910	100341	N25-48.3 W080-17.6	10 Sept 1981	"GERT" 9

TIME OF ENTRY	POSITION	TYPE	INERTIAL POSITION	LAT LON COR'S	POSITION	LAT LON COR'S	REMARKS
1055H	N25-48.3 W080-17.0	4/1	N25-48.6 W080-17.5	-0.3 +0.1	N25-48.5 W080-17.6	-0.2 0	Block out
100341	25-48.1 080-17.4		25-48.4 080-17.0		25-48.4 080-17.1		TOFF
111828	25-42.3 79-17.7	/	25-40.0 79-12.4		25-39.9 79-12.5		MOT-2BY.
113705	25-02 77-44	/	24-56.7 77-48.7		24-56.7 77-48.7		117/9/3 2BY.
1209	24-13.5 75-22	4/1	24-13.9 75-22.3	-0.4 -0.3	24-14.0 75-21.9	-0.5 +0.1	Visual
123009			23-28.8 74-22.0	23-17 74-15			123030 fix
133528			23-38.6 74-24.8		23-38.5 74-23.1		2
134341	23-38.3 74-57.0	4/1	23-38.7 74-58.3	-0.4 -1.3	23-38.5 74-56.5	-0.2 +0.5	Visual
141730			23-49.6 74-27.1		23-49.3 74-24.0		3
145617	24-01 74-31		24-01.0 74-31.0		24-00.8 74-28.5		4
151500			24-09.0 74-30.9		24-09.5 74-27.0		5
183330			24-24.8 74-20.9		24-25.0 74-16.4		6

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 ERROR		
				ELAPSE ALIGN POST TIME					LAT	LONG	G S
INS 1	0954	✓	✓	—	0	102115	2045	10.9	-1.5	-11.2	5
INS 2 or -IMU	0954	✓	✓	—	0	102115	2045	10.9	-1.4	+1.8	1

ALIGN REMARKS: Taxi stop - INS 1 has 1kt RGS INS 2 = 0 ⇒ Will use INS 2

OTHER REMARKS: for position + steering.

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

FLIGHT LOG

Date: 9/10/81

Flight Identification: 810910H

Aircraft: RFC 42

Departed: 1055Z

Arrived: 2039Z

Purpose: LONG TERM MONITORING PATTERN RECON 12,15,18Z FIXES

Pattern: LONG TERM MONITORING PATTERN

TAPE LOG

<u>TAPE TYPE</u>	<u>NUMBER</u>	<u>FROM [DAY/TIME (Z)]</u>	<u>TO [DAY/TIME (Z)]</u>
RFC Standard	1	1104	2038
Original	1	1104	2039
Knollenberg	14	1115	1923
<u>OTHER</u>			
VTR	2	1147	N/A
RADAR	11	1157	1940

EQUIPMENT STATUS:

<u>SYSTEM</u>		<u>STATUS / UP</u>	<u>DOWN</u>	<u>NOT USED</u>	<u>REMARKS</u>
NAV	INE 1	X			
	INE 2	X			
	ONE				
	DOPL				
RADAR	NOSE	X			BAD NOSE DISPLAY
	LF	X			
	TAIL	X			
	DATA SYSTEM	X			
RAMS	DATA SYSTEM	X			
	TOTAL TEMP. 1	X			
	TOTAL TEMP. 2	X			
	DEWPOINT	X			
	ATTACK ANGLE	X			
	SLIP ANGLE	X			
	ABS. PRESS.	X			
	DIFF. PRESS.	X			
	RADAR ALT.	X			
	J & W	X			
PMS	OAP 2DP	X			
	OAP 2DC	X			DIODES STUCK MOST SPEED #1
	FSSP 100	X			
	DATA SYSTEM	X			
IPC					
FOIL				X	
CO ₂ RADIOMETER		X			
MICROWAVE RADIOMETER		X			
SFC. RADIOMETER		X			
FORMWAR				X	
PHOTOGRAPHY	FWD	X			
	LS	X			
	RS	X			
	DWN	X			
	RADAR	X			
AXB	TUBES			X	
	RECEIVERS			X	
ODW				X	
SEEDER				X	