

19731019A1-FDIR

1

RFF - 1 WORK FORM (8 - 72)		U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION RESEARCH FLIGHT FACILITY MIAMI, FLORIDA		FLIGHT ID 731019A	
				AIRCRAFT N6539C	
				FLIGHT NO. 32-74	
				DATE OCT. 19, 73	
TAKE OFF (CITY OR AIRPORT) MIA		LAND (CITY OR AIRPORT) MIA		ALTITUDE(S) 1500'	
PURPOSE NAC-RECON NAIRL-RESEARCH TROPICAL STORM GILDA					
PROPOSED TAKEOFF TIME: 0400Z			PROPOSED FLIGHT DURATION: 10 HRS		
TIME OUT: 0355Z		TIME IN: 1420Z		BLOCK TIME: 10:25HRS	
TIME OFF: 0415Z		TIME ON: 1413Z		FLIGHT TIME: 9:58HRS	
PROPOSED PATTERN MODIFIED "Z" PATTERN CENTER OVER CUBA : SOUTHERN LEG TRUNCATED					
ACTUAL PATTERN FIXES 0540Z 2230N 7900W HI WND SOK HW QUAD 0750Z 2234N 7855W 996MB HI WND 45KT N QUAD 0955Z 2240N 7848W 996MB HI WND 45KT E QUAD 1210Z 2255N 7830W 997MB HI WND 50KT N QUAD 1300Z 2302N 7826W 23 MSG XMTD					
FLIGHT PERSONNEL					
OPERATIONS CREW		SCIENTIFIC CREW		VISITORS	
GUNNOE	ROSE	DAVIS	NORIMOTO	(NEWS) BEDWELL	(NAIRL) LEWIS
EVERTE	SCHISSEL	MICHIE	M. FADDEN		(NEWS) PEARCE
CALBDIN		FENNELL	FREEDMAN		(NAIRL) BLACK
CORRELL		CALVERT			(NAIRL) SCHICKER
REMARKS: PRTS CALIB 0330Z 295C = 22.5°C 367C = 25.5°C PRTS POS FLT CALIB 404C = 27.3°C (PANEL = 26.6°C)					

☐ USE REVERSE SIDE FOR ADDITIONAL REMARKS AS NECESSARY.

RFF - 2 WORK FORM (8 - 72)						FLIGHT ID 731019A	
U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION RESEARCH FLIGHT FACILITY MIAMI, FLORIDA						DATE OCT 19, 73	
FLIGHT DIRECTOR'S INFLIGHT DATA LOG							

T.A.S. SET.	G.S. SET.	D.A. SET.	I.R.H. DRY PT. (T/O)	I.R.H. TEMP. (T/O)	TIME	I.R.H. TEMP. (LAND)	TIME
1.0	2280	-020	0001	32.0°C	0340Z	40.0°C	1415Z

		TIME	PRESSURE	TEMPERATURE	DEW POINT	WIND
A/C	T/O	041435Z	1009.2	23.0°C	22.5°C	—
WX	STN.	0345Z	1011.2	24.4°C	22.8°C	080/07
A/C	LAND	141300Z	1007.5	27.5°C	23.0°C	—
WX	STN.	1400Z	1010.0	26.6°C	23.3°C	090/16

HOURLY INFLIGHT DIGITAL DATA STATUS												
ITEM \ HOUR	1	2	3	4	5	6	7	8	9	10	11	12
TIME (CHECK)												
AMBIENT PRESSURE												
RADAR ALTITUDE												
TRUE AIR SPEED												
MAG. HEADING												
D.T.C.												
DRIFT ANGLE												
WIND												
TEMPERATURE (VORTEX)												
LONGITUDE												
LATITUDE												
I.R.H.												
DIFFERENTIAL PRESSURE												
J.W. LIQUID WATER												
VARIATION												
TEMPERATURE (RSMNT.)												
C.S.I. DEWPOINT												
I.R. SFC. TEMP.												

✓ - System O.K. X - System Output, In Error C - Corrective Measures Initiative O - System Inoperative NA - Not Applicable

REMARKS

HURICANE GILDA

RFF - 3A WORK FORM
(8 - 72)U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
RESEARCH FLIGHT FACILITY
MIAMI, FLORIDA

FLIGHT ID

731019A

DATE

10-19-73

ELECTRONIC SYSTEMS STATUS

PRE - FLIGHT STATUS:

OPS NOR

SRE

INFLIGHT OUTAGES:

TIME NOTEDSYSTEMCORRECTIVE ACTIONall Equipment ops normal.
no outages

SRE

POST FLIGHT SUMMARY:

Ops normal SRE

APS - 20 RADAR INFLIGHT CHANGES

STC	DIAL										
	TIME										
150 ECHO	DIAL										
	TIME										
ANTENNA TILT	DIAL										
	TIME										
ANTENNA RPM	DIAL										
	TIME										
MAG CURRENT	DIAL										
	TIME										

REMARKS

ELECTRONIC SYSTEMS SUPERVISOR

RFF - 3B WORK FORM
(8 - 72)U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
RESEARCH FLIGHT FACILITY
MIAMI, FLORIDA

ELECTRONIC SYSTEMS INFLIGHT DATA LOG

HURICANE GLEDA

FLIGHT ID

73 10 19 A

DATE

10-19-73

INSTRUCTIONS: Make all entries in pencil. At Flight Termination, give completed form to the Flight Director.
Initials of person checking equipment will be put in the columns if the equipment is operating normally. If the equipment is inoperative, put an x and elaborate on malfunction (i.e., time out, time restored, etc.) below.
Check equipment every 30 minutes.

	04 00	04 30	05 00	05 30	06 00	06 30	07 00	07 30	08 00	08 30	09 00	09 30	10 00	10 30	11 00	11 30	12 00	12 30	13 00	13 30	14 00	14 30	15 00	15 30
DIGITAL	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓				
PRESSURES	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓				
APN - 82	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓				
APS-20 PWS 30	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓				
WP - 101	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓				
RDR - 1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓				
RADAR ALT.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓				
WIND SPEED PWS TEMP. (VORTEX)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓				
TEMP. (ROSEMNT)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓				
IRH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓				
J.W. LIQ. WATER	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓				
CSI DEWPOINT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓				
OMEGA																								
F.N.U.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓				

REMARKS:

041500Z off mia

HURICANE GELDA

RFF - 4 WORK FROM (8 - 72)		U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION RESEARCH FLIGHT FACILITY MIAMI, FLORIDA DIGITAL STATION		FLIGHT ID 73 10 19 A DATE 10-19-73	
INSTRUCTIONS: Make all entries in pencil. At Flight Termination, give completed form to the Flight Director.					
DIGITAL SYSTEM	TIME ON: 041100	Z	TIME OFF: 141400	Z	NO. OF TAPES: 2
				RATE: 1-1+1-10	
INFLIGHT LOG					
TIME RESET	TIME STANDARD USED FOR RESET		REMARKS		
Z					
Z					
Z					
Z					
Z					
Z					
Z					
Z					
Z					
REMARKS: (MALFUNCTIONS, RATE CHANGES, ETC.)					
Tape A off at 092020Z					
Tape B on at 092025Z					
Changed Sample Rate to 1-2 at 135445Z					
Changed to 1-10 at 135900Z					

RFF - 5A WORK FORM (8 - 72) U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION RESEARCH FLIGHT FACILITY MIAMI, FLORIDA PHOTO - OPTICAL STATION					FLIGHT ID 731019A	
					DATE 19 OCT '73	
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	—					
RIGHT SIDE	—	—	—	—	—	—
LEFT SIDE	—	—	—	—	—	—
PHOTO PANEL	035500Z	141500Z			1/5	450'
VERTICAL	—	—	—	—	—	—
ELAPSED TIME COUNTERS		TIME ON: 044000 Z		TIME OFF: 141000 Z		FINAL COUNT: 34203
WP - 101 CAMERA	TIME ON: 044020 Z		TIME OFF: 1351 Z		LENS SETTING: f/8	NO. OF ROLLS: 4
WP - 101 INFLIGHT CHANGES						
RATE	DIAL					
	TIME					
RANGE	DIAL					
	TIME					
TIME MAGAZINE CHANGED		080008Z		090430Z		1223
APS - 20 CAMERA	TIME ON: 044000 Z		TIME OFF: 140630 Z		LENS SETTING: f/5.6	NO. OF ROLLS: 2
APS - 20 INFLIGHT CHANGES						
RATE	DIAL					
	TIME					
RANGE	DIAL					
	TIME					
FTC	DIAL					
	TIME					
TIME MAGAZINE CHANGED		122013				
RDR - 1 CAMERA	TIME ON: 044000 Z		TIME OFF: 1351 Z		LENS SETTING: f/11	NO. OF ROLLS: 5
RDR - 1 INFLIGHT CHANGES						
RATE	DIAL					
	TIME					
RANGE	DIAL					
	TIME					
RECEIVER GAIN	DIAL					
	TIME					
TIME MAGAZINE CHANGED		085730Z		1222Z		

RFF - 5B WORK FORM
(8 - 72)

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
RESEARCH FLIGHT FACILITY
MIAMI, FLORIDA

FLIGHT ID

731019A

DATE _____

19 OCT '73

TIME CHECK LOG

[illegible]

ELAPSED TIME COUNTERS

DIGITAL	COUNTER	DIGITAL	COUNTER	DIGITAL	COUNTER
0440002	0000	1180002	24600		
0500002	1200	1200002	26400		
0540002	3000	1220002	28200		
0600002	4800	1300002	30000		
0630002	6600	1380002	31800		
0700002	8400	1400002	33600		
0730002	10200	1410002	34200		
0800002	12000				
0830002	13800				
0900002	15600				
0930002	17400				
1000002	19200				
1030002	21000				
1100002	22800				

REMARKS:

☐ USE REVERSE SIDE FOR ADDITIONAL REMARKS AS NECESSARY.

731019A

TIME	NDG	LA	LO	CAN	RA	PA	D	T	TD	SP	DD	FF			
0430	180	25M	8000	0	1690	1670	20	23.0	21.0	1011	068	23			
0440	173	2435	8001	-2,0	1530	1550	-30	23.0	21.0		067	25			
0450	173	2442	8000	-2,+2	1560	1550	-60	23.1	22.0		057	28			
0500	165	2328	7957	-2,+2	1570	1690	-120	22.0	22.0	1007	049	34			
0510	103	2308	7935	-3,+5	1510	1700	-190	22.2	22.0		054	40			
0520	100	2300	7935	-4,+6	1550	1800	-250	21.6	21.6		055	38			
0530	110	2352	7904		1510	1830	-320	22.3	22.3		090	32			
0535	112	2356	7855		1490	1800	-310	22.1	22.1		105	30			
0540	110	2400	7845	-4,+8	1570	1900	-330	21.8	21.8	1001.0	122	32			
0540	250	2341	7851	-4,+8	1540	1910	-370	21.9	21.9	997	080	29			
0550	115	2352	7840	-3,+9	1630	1940	-310	22.0	22.0		100	35			
0600	116	2342	7815		1660	1960	-300	21.8	21.8	1000	140	40			
0610	120	2335	7748	-4,+11	1570	1810	-240	21.8	21.8		160	42			
0620	135	2324	7723		1610	1810	-200	22.0	22.0		168	42			
0630	225	2333	7743	-2,+11	1570	1790	-280	22.0	22.0	1003	150	43			
0640	225	2344	7818	-2,+11	1520	1890	-370	22.2	22.2		155	43			
0650	035	2355	7844		1650	1970	-320	21.9	21.9		110	35			
0700	040	2320	7830	-1,+13	1540	1910	-370	21.1	21.1	1001	092	45			
0710	040	2313	7815	-1,+15	1550	1730	-180	21.2	21.2		090	40			
0720	195	2359	7802	0,+16	1540	1680	-140	22.0	22.0		082	38			
0730	195	2350	7821	0,+16	1660	1860	-200	21.7	21.7	10033	080	40			
0740	190	2359	7839	0,+17	1670	1980	-310	21.9	21.9		100	35			
0743	190	2349	7837		1650	1970	-320	21.8	21.8		105	40			
0746	195	2341	7839		1580	1970	-390	22.3	22.3		104	27			
0748		236	41		1550	1800	-450				061	23			
0749		232	42		1550	1800	-450			996.2	061	21			
0750	195	235	45		1590	1800	-450				061	24			
0800	290	2251	7840	+1,+19	1600	1950	-350	22.2	22.2	998.0	075	21			
0810	300	2304	7912		1600	1860	-260	21.5	21.5		050	45			
0820	301	2316	7944	0,+20	1600	1790	-190	22.5	22.5		036	32			
0830	104	2315	7932	0,+20	1520	1720	-200	21.5	21.5	10035	032	35			
0840	104	2304	7903		1650	1930	-280	22.0	22.0		050	40			
0850	108	2304	7835		1540	1910	-360	22.0	22.0		045	45			
0854	110	2344	7831	-2,+23	1570	1920	-340	22.0	22.0		115	27			
0900	115	2343	7801		1630	1950	-320	22.2	22.2	998.5	192	30			
0910	126	2325	7724		1470	1780	-310	22.1	22.1		180	32			
0920	T	2327	7707		1560	1800	-240	22.0	22.0		170	40			
0930	280	2327	7740	-2,+25	1520	1790	-270	22.0	22.0	10002	180	40			
0940	276	2315	7814		1530	1820	-290	22.0	22.0		181	17			
0945	200	2314	7807		1660	1910	-250	22.0	22.0		050	02			
0947	200	2329	7809		1650	1900	-240	22.0	22.0		050	10			
0950	270	2317	7828		1710	1910	-200	22.6	22.0		331	12			
0953	270	30	23		1650	1940	-290	22.0	22.0		060	28			
0955		27	19		1620	1910	-290	22.0	22.0		210	26			
0957		2043	7817	0,+25	1600	1800	-350	22.2	22.2		180	06			
1010	025	2301	1802		1640	1710	-270	22.0	22.0		084	30			
1020	025	2300	1107	0,+25	1430	1650	-220	21.5	21.5		070	37			
1023	025	2359	1757								070	35			
1035	195	2400	1800		1530	1720	-190	21.0	21.0	1004	270	50			
1040	192	2341	7803	-1,+25	1650	1870	-220	21.6	21.6		072	33			
1050	190	2311	7810		1570	1860	-290	22.6	22.6		070	25			
1100	295	245	7823		1450	1780	-330	22.2	22.2	998.5	008	20			
1122	302	2312	7925		1670	1850	-180	23.2	22.0		027	25			
1131	105	2315	7946	0,+28	1720	1870	-150	22.6	22.0	1004.7	026	30			
1140	100	2306	7916		1660	1860	-200	22.7	22.0		023	35			

731019A

TIME	NDG	LA	LO	COU	RA	PA	D	T	Td	SP	DD	FF			
1150	100	2255	7847	-215	1610	1870	-260	22.2	22.0		011	027			
1201	085	2248	7814		1530	1860	-330	22.5	22.5		350	024			
1205	085	2253	7831		1530	1860	-330	22.5	22.5		350	012			
1208	360	2254	7831		1510	1840	-240								
1208	360	2254	7831		1530	1860	-330	22.2	22.2		360	06			
1210	360	2301	7853		1520	1860	-310	22.5	22.5		213	02			
1210	360	2305	7751	-4+30	1520	1850	-250				170	06			
1230	145	2333	7710	-5+30	1610	1880	-270	22.1	22.1		188	45			
1240	285	2235	7717	-4+30	1590	1870	-290	22.0	22.0		199	55			
1250	305	2248	7743	-5+30	1580	1860	-270	22.4	22.4		225	25			
1255	340	2259	7754		1520	1860	-340	22.0	22.0		254	10			
1257	340	2305	7756		1520	1860	-330				284	06			
1259	015	2308	7752		1530	1870	-320	22.4			304	05			
1300	010	2312	7755		1520	1850	-320	22.8			C	0			
1303	030	2322	7751		1550	1860	-310	22.4	22.4		140	05			

PAGE 1

A/C COMMANDER		NAVIGATOR		A/C NO.		MISSION NO.		TIME AIRBORNE		LOCATION		DATE		PROJ. NAME	
GUPPOS		SCHISSEL		390		731019A		041506		MIAMI		19 OCT 73		6160A	
TIME OF ENTRY	POSITION	CONF FACT	TYPE NO.	DOPPLER POSITION	LA LO CORR	STA OR REF POSN.	TRUE BEARING	RANGE OR READING	CORR	REMARKS					
041506	25-48.3 80-17.6	1	4	25-48.3 80-17.6	-	MIA				3-41 WAS 347					
042230	25-14 80-01	1	2	25-15 79-58	0 +3	Bs Y	162	27		INS 25-14.8 0 80-00.6 0					
0435 10	24-51 80-02	1	2	25-51 79-58	0 +4	Bs Y	172	49		INS 24-50.3 0 80-01.6 0					
050245	23-15.7 80-00.7	1	9	23-17 79-52		3L3 3L5									
053020	22-44.4 78-43.7	1	9	22-40 78-32	-2 +11										
0540 12	22-36.6 79-02.0	1	9	22-39 78-56	-3 +11										
0546 45	22-51 78-57	1	9	22-54 78-44	-3 +13										
				22-50 78-33		2H1 3H2 3H4				3570 055045 1140 1115					
0629	22-30.5 77-53.6	1	5							22-21.1 77-52.7					
063900	22-41.3 78-25	1	9	22-42 78-15	-1 +13										
06 434	22-43 78-30	1	6	22-47 78-27	-4 +12	260	18	PT OF LAND		22-45.7 -2 78-41.6 -2					
0647 58	22-48.9 78-56.0	1	9	22-50 78-42	-4 +14										
0716 00	23-56 78-22	1	9			383	40	PT OF LAND ADDED		INS 23-56.8 78-21.3					
0737 56	23-04 78-50	1	9	23-03 78-28		200	28			23-05.2 78-47.7					

TYPE OF FIX. (1) DR. (2) RADIO (3) CELESTRAL (4) VISUAL (5) LORAN (6) RADAR
(7) DOPPLER (8) OMEGA

CONFIDENCE FACTOR (Nautical Miles) (1-5,1) (6-10,2) (11-15,3) (16-UP,4)

AS-22

A/C COMMANDER		NAVIGATOR		A/C NO.	MISSION NO.		TIME AIRBORNE		LOCATION		DATE	PROJ. NAME
TIME OF ENTRY	POSITION	CONF FACT	TYPE NO.	DOPPLER POSITION	LA LO CORR	STA OR REF POSH.	TRUE BEARING	RANGE OR READING	CORR	REMARKS		
0746 24	22-40 78-54	1	6	22-37 78-36	+18	PT of LAND	270	03		22-40.2 0 78-56.3 -2		
0750 00	22-28.8 78-59.8	1	9	22-27 78-39	+1 +20							
0757 45	22-47.8 78-50.2	1	9	22-47 78-29	+1 +21							
0822 00	23-18.8 80-10.1	1	9	23-19 79-48	0 +22							
0834 52	23-06 79-40	1	6	23-08 79-13	-2 +27	PT of LAND	170	18		23-08.0 -2 79-38.1 +2		
0849 52	22-50 78-58	1	6	22-53 78-31	-3 +27	PT of LAND	180	09		22-51.1 -1 78-57.2 +1		
0914 00	22-19.8 77-33.0	1	9	22-23 77-04	-3 +29							
0943 34	22-45 78-47	1	6	22-47 78-21	-2 +26		248	12		22-46.8 -2 78-49.2 -2		
0949 34	22-30.4 78-57.5	1	9	22-29 78-28	+1 +29							
1028 20	24-12 78-17	1	6	24-12 77-50	0 +27	AP of Brg	020	15		24-10.9 +1 78-18.8 -2		
1102 20	22-45 78-54	1	9	22-46 78-26	-1 +32	PT of LAND	360	04		105507 T.H 22-44.9 196.4 78-57.9		
1128 12	23-19.6 80-10.4	1	9	23-19 77-40	0 +30					11735 310.9 T.H. 113428 102.9 T.H.		

TYPE OF FIX. (1) DR. (2) RADIO (3) CELESTIAL (4) VISUAL (5) LORAN (6) RADAR
(7) DOPPLER (8) OMEGA

CONFIDENCE FACTOR (Nautical Miles) (1-5,1) (6-10,2) (11-15,3) (16-UP,4)

A/C COMMANDER		NAVIGATOR		A/C NO.	MISSION NO.		TIME AIRBORNE		LOCATION	DATE	PROJ. NAME
TIME OF ENTRY	POSITION	CONF FACT	TYPE NO.	DOPPLER POSITION	LA LO CORR	STA OR REF POSN.	TRUE BEARING	RANGE OR READING	CORR	REMARKS	
121000	22-56.6 78-23.0	1	9							5	
122000	22-28 77-45	1	6	22 33 77 07	-5 +38		180	18		22-29.5 -1 77-43.6 +2	
125700	23-03 78-24.5	1	9	23-05 77-35	-2 +51			5		123014 285.37H 130300 029.2	
131936	23-59.5 78-02.1	1	9	24-01 77-20							
141045	25-48 80-23	1	2	25-51 79-51	-3 +32					132400 314.1	
										133520 INSTH 324.0 L 10.6	
										133700 313.5 21.3 TH 322.9 11.2 DHT	

TYPE OF FIX. (1) DR. (2) RADIO (3) CELESTRAL (4) VISUAL (5) LORAN (6) RADAR
(7) DOPPLER (8) OMEGA

CONFIDENCE FACTOR (Nautical Miles) (1-5,1) (6-10,2) (11-15,3) (16-UP,4)