19730922A1-FDIR

1

RFF - 1 WORK FORM
(8 - 72)

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

FLIGHT SUMMARY

FLIGHT ID	AIRCRAFT	FLIGHT NO.	DATE
730922A	N6539C	29-74	SEP 22, 73

TAKE OFF (CITY OR AIRPORT)	LAND (CITY OR AIRPORT)	ALTITUDE(S)
BDA	MIA	12,000'

PURPOSE NHRL - RESEARCH - FERRY FM ELLEN

PROPOSED TAKEOFF TIME:	PROPOSED FLIGHT DURATION:
1730Z	4:40 HRS

TIME OUT:	TIME IN:	BLOCK TIME:
1735Z	2235	5:00 HRS
TIME OFF:	**TIME ON:**	**FLIGHT TIME:**
1750Z	2230Z	4:40 HRS

PROPOSED PATTERN

BDA - MIA VIA AIRWAY

ACTUAL PATTERN

AS PLANNED

FLIGHT PERSONNEL

OPERATIONS CREW		SCIENTIFIC CREW		VISITORS	
CANDOLIST	ROSE	DAVIS	CANNON		PEARCE
TICKNOR	CARRELL	DORSEY	NORIMATO		LEWIS
EVERTS	HATCH	FREEDMAN	NUNN		DAMMANN
SALADIN		DANIELS			SENN

REMARKS:

☐ USE REVERSE SIDE FOR ADDITIONAL REMARKS AS NECESSARY.

1

RFF - 2 WORK FORM
(8 - 72)

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

FLIGHT DIRECTOR'S INFLIGHT DATA LOG

FLIGHT ID: 730922A

DATE: SEP. 22, 73

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

	TIME	PRESSURE	TEMPERATURE	DEW POINT	WIND
A/C T/O	175015Z	1023.1	27.0°C	23.0°C	———
WX STN.	1730Z	1023.0	25.0°C	22.0°C	110/08
A/C LAND	223016Z	1014.6	23.0°C	23.0°C	———
WX STN.					

HOURLY INFLIGHT DIGITAL DATA STATUS

ITEM \ HOUR	1	1815	2015	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)	O											
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

☐ USE REVERSE SIDE FOR ADDITIONAL REMARKS AS NECESSARY.

3A

RFF - 3A WORK FORM
(8 - 72)

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

ELECTRONIC SYSTEMS STATUS

FLIGHT ID: 309221

DATE: 9-22-73

PRE - FLIGHT STATUS:

ALL Electronic OK

INFLIGHT OUTAGES:

TIME NOTED	SYSTEM	CORRECTIVE ACTION

POST FLIGHT SUMMARY:

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

☐ USE REVERSE SIDE FOR ADDITIONAL REMARKS AS NECESSARY.

3A

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

FLIGHT ID: 309221

DATE: 9-22-73

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.

	18 00	18 30	19 00	19 30	20 00	20 30	21 00	21 30	22 00	30	00	30	00	30	00	30	00	30	00	30	00	30	00	30
DIGITAL	✓	✓	✓	✓	✓																			
PRESSURES	✓	✓	✓	✓	✓																			
APN - 82	✓	✓	✓	✓	✓																			
~~APS - 20~~ AVG - 30	✓	✓	✓	✓	✓																			
WP - 101	✓	✓	✓	✓	✓																			
RDR - 1	✓	✓	✓	✓	✓																			
RADAR ALT.	✓	✓	✓	✓	✓																			
TEMP. (VORTEX)	✓	✓	✓	✓	✓																			
TEMP. (ROSEMNT)	✓	✓	✓	✓	✓																			
IRH	✓	✓	✓	✓	✓																			
J.W. LIQ. WATER	✓	✓	✓	✓	✓																			
CSI DEWPOINT	✓	✓	✓	✓	✓																			
OMEGA	✓	✓	—	—	—																			
	BD	BD	RL	RL	RL																			

REMARKS:

☐ USE REVERSE SIDE FOR ADDITIONAL REMARKS AS NECESSARY.

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: 309221

DATE: 9-22-73

INSTRUCTIONS: Make all entries in pencil. At Flight Termination, give completed from to the Flight Director.

DIGITAL SYSTEM	TIME ON:	TIME OFF:	NO. OF TAPES:	RATE:
	175000 Z	223036 Z	1	1/1

INFLIGHT LOG

TIME RESET	TIME STANDARD USED FOR RESET	REMARKS
Z		
Z		
Z		
Z		
Z		
Z		
Z		
Z		

REMARKS: (MALFUNCTIONS, RATE CHANGES, ETC.)

Radar alt 10's of Feet intermittent

☐ USE REVERSE SIDE FOR ADDITIONAL REMARKS AS NECESSARY.

RFF - 5A WORK FORM
(8 - 72)

U.S. DEPARTMENT OF COMMERCE
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RESEARCH FLIGHT FACILITY
MIAMI, FLORIDA

PHOTO - OPTICAL STATION

FLIGHT ID: 730922A

DATE: 22 SEP '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	174000Z	223500Z			1/5	
LEFT SIDE	174000Z	223500Z			1/5	
PHOTO PANEL	174000Z	223500Z			1/5	
VERTICAL	—	—	—	—	—	

ELAPSED TIME COUNTERS — TIME ON: 175000 Z — TIME OFF: 223000 Z — FINAL COUNT: 16800

WP - 101 CAMERA — TIME ON: 180000 Z — TIME OFF: 222100 Z — LENS SETTING: f/8 — NO. OF ROLLS:

WP - 101 INFLIGHT CHANGES

RATE 1/4	DIAL										
	TIME										
RANGE 50 mi	DIAL										
	TIME										
TIME MAGAZINE CHANGED											

APS - 20 CAMERA — TIME ON: 1806 Z — TIME OFF: 222[illegible] Z — LEN SETTING: f/5.6 — NO. OF ROLLS: 1

APS - 20 INFLIGHT CHANGES

RATE 1/2	DIAL										
	TIME										
RANGE	DIAL										
	TIME										
FTC	DIAL										
	TIME										
TIME MAGAZINE CHANGED											

RDR - 1 CAMERA — TIME ON: 180000 Z — TIME OFF: 222100 Z — LENS SETTING: f/11 — NO. OF ROLLS: 1

RDR - 1 INFLIGHT CHANGES

RATE 1/4	DIAL										
	TIME										
RANGE 50 mi	DIAL										
	TIME										
RECEIVER GAIN	DIAL										
	TIME										
TIME MAGAZINE CHANGED											

☐ USE REVERSE SIDE OFR ADDITIONAL REMARKS AS NECESSARY.

5B

RFF - 5B WORK FORM
(8 - 72)

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

TIME CHECK LOG

FLIGHT ID: 730922A

DATE: 22 Sep '73

IRH "T" (°C)	WP - 101 DIGITAL	WP - 101	WP - 101 COR'N	APS - 20 DIGITAL	APS - 20	APS - 20 COR'N	RDR - 1 DIGITAL	RDR - 1	RDR - 1 COR'N
36.5°	183192	183130	-01	183492	183440	-01	183312	183150	+01
37.8	193607Z	193615	-08	193710Z	193715	-05	183592	183525	+04
2	203308Z	203320	-12	—	—		203216Z	203210	+06
37.8°	204841Z	204855	-14	204538	204545	-07	204716Z	204710	+06
37.5°	214106	214125	-19	214303	214325	-12	214039Z	214025	+08
37.9°	221902	221925	-23	222350	222405	-15	221819Z	221810	+09

ELAPSED TIME COUNTERS

DIGITAL	COUNTER	DIGITAL	COUNTER	DIGITAL	COUNTER
1750002	0000				
1800002	0600				
1830002	2400				
1900002	4200				
1930002	6000				
2000002	7800				
2030002	9600				
2100002	11400				
2130002	13200				
2200002	15000				
2230002	16800				

REMARKS:

☐ USE REVERSE SIDE FOR ADDITIONAL REMARKS AS NECESSARY.

WB Form 413-50
2 - 63

730922A

TIME	HDG	LA	LO	CON	RA	PA	D	T	TD	HT	DD	FF
1735	182 K	OUT										
1750	OFF	BDA										
1824	AT	18K										
1830	248	3131	6138		13400	12130	870	3.7	3.2		028	08
1845	250	3104	6729		13000	12110	890	3.2	1.5		352	02
1900	252	3049	6821		12960	12070	880	4.1	-1.2		015	06
1915	266	3017	6914		12950	12080	870	4.1	-2.0		050	02
1930	233	2945	7000		13000	12110	890	3.9	-1.0		114	03
1945	240	2907	7041		13000	12110	890	3.2	2.0		113	11
2000	240	2921	7115		12950	12080	870	3.3	2.0		075	08
2015	240	2755	7207		12990	12120	870	3.3	1.6		040	14
2030	242	2720	7354		13000	12140	860	3.7	0.5		654	12
2045	241	2651	7450		13000	12130	870	3.6	0.5		066	09
2100	242	2634	7545		12960	12120	840	4.3	0.5		066	13
2115	243	2617	7637		12980	12140	840	4.6	-2.0		053	15
2130	245	2547	7637		13000	12160	840	4.6	0.6		078	14
2145	240	2537	7736		12980	12150	830	4.4	-1.8		070	13
2200	245	2520	7820		13000	12170	830	4.1	-5.0		087	09

A/C COMMANDER	NAVIGATOR	A/C NO.	MISSION NO.	TIME AIRBORNE	LOCATION	DATE	PROJ. NAME
TICKNOR	HATCH	39C	730922A	175100	BDA - MIA	22 SEP -73	FERRY FROM GLLEN

TIME OF ENTRY	POSITION	CONF FACT	TYPE NO.	DOPPLER POSITION	LA LO CORR	STA OR REF. POSN.	TRUE BEARING	RANGE OR READING	CORR	REMARKS
1751 002	32 22 64 41	1	4	32 22 64 41	D/O	BDA RNY				13° W SET
18107	31 53 65 27	1	2/5	32 01 65 29	-8 -2					3H4 3415 BDA/OR 252/45
1836 00	31 08 66 47	1		31 19 66 56	-11 -9				3H4	3000 BDA 252/?
1843	30-59 67-12	1	2/5	31-07 67-19	-8 -7				3H4	3H4 -2900 BDA 252°OAD
1917	30 19 69 18	1	5	30 13½ 69 17½	+5½ 0					3L5 4050 3L3 2848 3H6 1847
2007	28 20 71 50	1	5	28 10½ 71 40	+9½ +10					5 4164 6 2415
2027	27 39 72 59	1	5	27 28 72 46	+11 +13					3 3288 5 4150 6 2670
2108	26 28 75 28	1	5	26 16½ 75 12½	+11½ +15½					3L 1960 3 3704 5 3810 3H 6 3184
2220 18	25 40 80 11	1	2	25 26 79 52	+14 +19			BSY/OR		
2250 2										LNDD MIA

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)

NHRL

PAGE 1 OF 1

DATA TIME CORR'N SHEET NOAA/RFF

730922APP
FLT ID

22 SEP '73
DATE

ORIGINAL DIGITAL TIME (Z)	CLOCK TIME	TIME CORR'N	CORRECT DIGITAL TIME (Z)	ORIGINAL COUNT	COUNTER CORR'N	CORRECT COUNT
1750002	174958	±0	1750002	0000	±0	0000
1800002	175958	±0	1800002	0571	+29	600
1830002	182958	±0	1830002	2371	+29	2400
1900002	185959	±0	1900002	4171	+29	4200
1930002	193000	±0	1930002	5971	+29	6000
2000002	200000.2	±0	2000002	7771	+29	7800
2030002	203001.2	±0	2030002	9571	+29	9600
2100002	210002	±0	2100002	11371	+29	11400
2130002	213002.5	±0	2130002	13171	+29	13200
2200002	220003	±0	2200002	14971	+29	15000
2230002	223003.8	±0	2230002	16771	+29	16800