

19780922 I. FDIR

RFC FLT LOG

1

RFF - 1 WORK FORM (8 - 72)		U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION RESEARCH FLIGHT FACILITY MIAMI, FLORIDA		FLIGHT ID 780922 I	
				AIRCRAFT N43RF	
				FLIGHT NO. 60-78	
				DATE SEPT. 22, 1978	
FLIGHT SUMMARY					
TAKE OFF (CITY OR AIRPORT) MIAMI		LAND (CITY OR AIRPORT) MIAMI		ALTITUDE(S)	
PURPOSE LOCUS					
PROPOSED TAKEOFF TIME:			PROPOSED FLIGHT DURATION:		
TIME OUT: 1715		TIME IN: 2120		BLOCK TIME: 4:05	
TIME OFF: 1723		TIME ON: 2118		FLIGHT TIME: 3:55	
PROPOSED PATTERN NO OVERLAND SNDG. DUE TO WX OVER DAVE COLLIER DID SOUNDING NEAR BIMINI. WORKED CLOUD NEAR FMY ON GULF COAST. NO SUITABLE OVER WATER CLOUDS					
ACTUAL PATTERN					
FLIGHT PERSONNEL					
OPERATIONS CREW		SCIENTIFIC CREW		VISITORS	
TICKNOR		MICHIE	MCRORY	WILGHBY	STRAUSS
SALADIN		DARBY	CALVERT	MARTIN R	WIRFEL
BERNER		BRUNSON		MARTIN D	PARADIS
RICCI		DUGRAN/RT		POWELL	TOMCHAY
REMARKS: NO GRAPHICS					

☐ USE REVERSE SIDE FOR ADDITIONAL REMARKS AS NECESSARY.

NOV 7 REC'D

1

A/C COMMANDER	NAVIGATOR	A/C NO.	MISSION NO.	TIME AIRBORNE	LOCATION	DATE	PROJ. NAME
Ticknor	Bergner	N43RF	780922	1723:40	KMIA N 25-48.3 W 80-17.6	22 Sept. 78	Locus

TIME OF ENTRY	POSITION	TYPE	INERTIAL POSITION	LAT LON COR'S	POSITION	LAT LON COR'S	REMARKS
1711 1715	N 25-48.3 W 80-17.6		N 25-47.9 W 80-17.5	+0.4 +0.1	N 25-48.8 W 80-17.2	-0.5 +0.4	ENG TAXI
1723							Toff KMIA
1737			N 25-36.3 W 79-59.2				82'AGL BlueWater Begin Soundings
1800	N 25-38.0 W 79-37.0		N 25-37.4 W 79-36.9	+0.8 +0.1	N 25-38.4 W 79-37.0	-0.4 0.0	ZBV R-257/19
1825			N 26-21.2 W 80-10.8		N 26-22.3 W 80-11.2		
1910			N 26-33.5 W 81-35.9		N 26-34.5 W 81-36.9		
1940	N 26-56.0 W 82-28.0		N 26-56.3 W 82-27.3	-0.3 +0.7	N 26-57.5 W 82-28.1	-1.5 -0.1	FMY R-302/39
2010			N 26-54.5 W 82-22.9		N 26-55.5 W 82-24.1		
2035	N 27-05 W 81-39		N 27-04.5 W 81-39.0	+0.5 0.0	N 27-05.8 W 81-40.1	-1.8 -1.1	LBV R-333/22
2118			N 25-48.3 W 80-15.8		N 25-48.4 W 80-17.3		LAND KMIA
2121	N 25-48.3 W 80-17.6		N 25-48.4 W 80 15.5	-0.1 +2.1	N 25-48.5 W 80-17.1	-0.2 +0.5	Chocks

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.	Δ T (2)(1)	TERMINAL ERRORS		
									LAT	LONG	G S
INS 1	1600	—		—	5	1620	21 21	+0.1	-0.1	+2.1	0
INS 2 or IMU	1600	26	Ω	—	5	1620	21 21	+0.1	-0.2	+0.5	2

ALIGN REMARKS:

OTHER REMARKS:

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

1 KMIA 33KV
2 MIA 11.18V/11

[illegible]

TOTAL REELS	
VTR	N/A
DMTR 1	3
DMTR 2	2

[illegible][illegible]

RFC-3 WORK FORM (7-76)				U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION RESEARCH FACILITIES CENTER MIAMI, FLORIDA PHOTO - OPTICAL STATION		FLIGHT ID 780922 I	
				DATE SEPT. 22, 1978			
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	1734	211832					
RIGHT SIDE	1734	"					
LEFT SIDE	1734	"					
VERTICAL	1734	"					

ELAPSED TIME COUNTERS					
DIGITAL	COUNTER	DIGITAL	COUNTER	DIGITAL	COUNTER

REMARKS:

TIME	AL	over water	HDC	near Bimini	PP	FF				
174250	25M	82'	083	063	2.2		2 MIN			
174815	50M	164'	245	124	2.5		2 MIN			
175255	100M	328'	076	095	3.8		"			
175800	150M	492'	276	144	3.9		"			
180240	200M	656'	083	124	4.6		"			
180800	300	954'	262	145	2.4		"			
	QUP	RUN		R	B	over land Gulf coast				
185245	1	1		306	116		4 MIN			
191500	2	1	299	311	28	FMM	"			
192020	3	1	287	311	28	"				
192630	3	2	090						192808 under	
193220	3	3	306	313	27					
194230	3	4	127						new top	
194900	3	5	296							
195630	3	6	109							
200315	3	7	299							
200950	3	8	114							
201610	3	9	317							

RADAR PREFLIGHT CHECKLISTFLIGHT # 780922IA.C. # 43RFOPERATOR ParadisRADAR TECH Sam CalvertNUMBER OF DIGITAL MAGNETIC TAPES ONBOARD 6 + 1 boxNUMBER OF VIDEO TAPES ONBOARD N/ANUMBER OF TAPE LABELS ON BOARD 25

COMPONENT SYSTEMS UP AND CHECKED.

RDSC ✓
COMPUTER ✓
DMTR1 ✓
DMTR2 ✓VTR N/A
DSC1
DSC2
SCOPES ✓NO ✓
LF ✓
TA N/ATime correction between radar time and digital time SameRADAR POSTFLIGHT SUMMARYNUMBER OF DIGITAL TAPES USED DMTR 1 3
DMTR 2 2NUMBER OF VIDEO TAPES USED N/A

SIGNIFICANT RECORDER DOWN TIME (other than for tape changes).

DMTR: LF
NO
TA VTR: LF
NO
TA STC OVERRIDE LGT. WAS
ON FOR WHOLE TRIP

OTHER PROBLEMS: (stabilization, interference, etc.)

NHEML RADAR TAPE LOG

FLIGHT 780922I

AIRCRAFT 43RF

OPERATOR *PARADIS* SHEET 1 OF

[illegible]

NHEML RADAR LOG

OPERATOR _____

SHEET _____ OF _____

RADAR DOWN-TIME LOG

ITEMTIME DOWNTIME UPPROBLEM

ITEM LIST: VTR, DMTRI, DMTR2, COMP, ROSC, LF, NO, TA, DSCI, DSC2

Form I-2 Cloud Physics Project Scientist Operational CHECKLIST

DATE 9/22/78

AIRCRAFT 43RF

FLIGHT 780922I

A.

INSTRUMENT STATUS AND PERFORMANCE

	PreFlight	InFlight	PostFlight	Remarks	Data Units Collected
Johnson Williams					
Nimbiometer					
Lyman Alpha					
U. V.					
dewpoint					
Foil Impactor					
Formvar					
Knollenberg	ALL SYSTEMS OK			ONLY 2 DATA TAPES	
Raindrop					
Cloud Droplet					
FSSP					
Data System					
& Displays					
Ice Particle Counter					
Mee					
ERT					
CO ₂ Radiometer					
Microwave Radiometer					
Aerosol					
Filters					
Bulk Water					
INC					
CCN					

B.

REMARKS

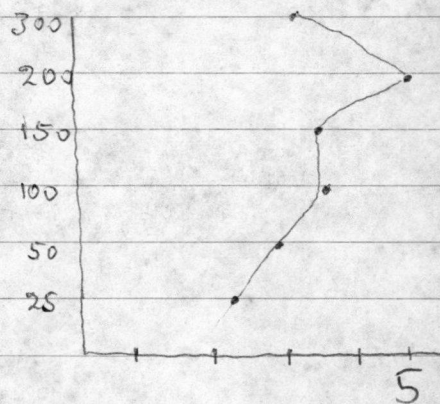
780922 I 43RF

takeoff ~ 1715 Z (1:15)

land too blocked up + disturbed for cloud predictions
will proceed to over water and do profiles

hazy thin cirrus from anvil no direct sunlight

time	alt	wind dir	speed
~82 ft			
1742	25M	93.8	2.5-
1743	23	71.	3.0
174350	50 21	50	1.7
174426	24	47	1.5
1748	50	124	3.6
174835	47	105	1.8
174855		108	2.6
174915	52	120	3.3
174935	54	108	3.2
1750	54	108	3.5
1753	100	95	4.1
175330	93	93	3.8
1754	96	101	3.5
175430	95	115	2.9
175750	150	150	3.5
175830	150	124	4.0
1759	157	141	3.2
175930	147	138	3.5
1800 climb			
180310	195	130	4.6
180345	200	139	5.4
180430	200	137	4.9
180658	298	152	3.4
180735	288	139	1.9
1808	303	143	2.4
180810	295	148	2.6
180850	298	145	3.1



seaweed
some ~~large~~ lumps were
visible but didn't appear
oriented in lines

Hdg. 246

hdg. 246

25.6N 79.63W

hdg. 85.

hdg. 266

hdg. 262 25.65 79.60

181015 climbing to head for labele for cloud penetrations

all further test film preflights should be done on day before the flight
possibly leaving equipment on the air craft

183218

cloud

location

26.54 N 80.73 W

50 m below cloud base

4 min 11-5 min under probable test cloud ~ 185130

at 185254 hdy 199.4 ^{WD} .132 0.1

cloud too close to summit airport

1903 looking for another cloud

problem - clouds looking at are too close to head uncontrolled ⁱⁿ parts

now on E side of a rain shaft 1956 Hdy 297

26.86 82.19 under cloud @ 192201

turn for next pass

192808 25.85 82.20

pass 193240 26.82 82.16

193330 26.85 82.21

194443 26.86 82.19

194920 26.84 82.16

WD WS hd
301 2.5 305

WD WS
16.7 1.8 26296