19830825H1_FDIR

RFF-10 WORK FORM
(8 - 72)

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

FLIGHT LOG

AIRCRAFT: N42RF
FLIGHT NO.: ~~830825H~~ 57-83
FLIGHT ID: 830825H
DATE: 25 August 1983

TAKE OFF (City or airport)	LAND (City or airport)	ALTITUDE
KMIA	KMIA	5K

PURPOSE: Vortex evolution experiment on T.S. Barry

PROPOSED TAKEOFF TIME: 0200Z	PROPOSED FLIGHT DURATION: 10 +
TIME IN: 0715Z	TIME ON: 0707
TIME OUT: 0143Z	TIME OFF: 0153Z
BLK. TIME: 5+32	FLIGHT TIME: 5+14

FLIGHT PERSONNEL

OPERATIONS CREW		WEATHER CREW			VISITORS
Noble	Mendelkern	Zysko	Schricker	Jorgenson	Lord
Genzlinger		Parrish	Milander	Willis	Williams
Adams		DeVivo		Feinberg	Liff
Ricci		DuGranrut		Cheng	Reis

PROPOSED MISSION
Fly to vicinity of T.S. Barry (28.1 N, 78.5 W), conduct vortex evolution experiment at 5000 ft.

ACTUAL MISSION AND REMARKS
Attempted to do experiment on 43 - engine had chips in oil. Flew pattern in 42 - changed pattern after finding very weak system. Made 6 center transits, investigated convective bands to south + west.

DATA COLLECTED AND REMARKS
6 cloud physics tape
4 radar tape
1 sfmo tape

FLIGHT PERFORMANCE LOG

FLIGHT TECH: D'G/Schricker FLIGHT I.D.: 830825H

AIRCRAFT: N42RF MISSION: T.S. Barry

TIME: (Pre-Flt) 0014Z (Take-Off) 0154Z (Land) 0707Z

SYSTEM				PRE-FLIGHT	INFLIGHT	POST-FLIGHT		
		ALIGN PI	AID			LAT	LON	GS
NAV	INE1	0	0/0	✓		-2.9	+1.0	2
	INE2	0	0/0	✓		+1.3	-.5	1
	ONE			✓	(6)			
	DOPLR			✓				
RADAR		INTEGRATION(PRI'S)						
	NOSE			✓				
	L/F			✓				
	TAIL			✓				
	DATA SYSTEM			(1) ✓		#TAPES: 4		
RAMS DATA SYSTEM				✓	(3)	" 1		
TEMP	CAL HI	CAL LO		AMBIENT		CAL HI	CAL LO	
TEMP #1	30.5	-30.0		23.8		29.2	-30.8	
TEMP #2	30.1	-29.6		24.1		28.8	-30.5	
DEW POINT (CLEANED:Y/N) N				23.7				
ATTACK ANGLE				✓				
SLIP ANGLE				✓				
ABSOLUTE PRESSURE				✓				
DIFFERENTIAL PRESSURE				✓				
RDR ALTM. S/N: 71-02				✓				
J&W				✓				
PMS	OAP 2D-C			✓	(5)			
	OAP 2D-P			✓				
	FSSP-100			✓				
	DATA SYSTEM			✓	(8)	#TAPES: 6		
FOIL IMPACTOR				NI		#INCHES: —		
ICE RATE DETECTOR				NI				
CO2 RADIOMETER				(2) (4)	(3)			
MICROWAVE RADIOMETER				NI				
SURFACE RADIOMETER				✓				
SEEDER				NI				
GUST PROBE				NI				
ASDL (TEST TRANSMISSION) X				✓		#MESSAGES: 12		
HARD COPY				✓				
CLEAN MAG TAPE HEADS				✓				
NIMBIOMETER				✓				
PHOTO		RATE		(COUNTS)			(COUNTS)	
	FORWARD			NU				
	VERTICAL			NU				
	RIGHT SIDE			NU				
	LEFT SIDE			NU				
AXBT SYSTEM				NU				
ODW SYSTEM				NU	(7)			

AXBT EXPENDABLES: #ON BOARD: 0	#DROPPED:	#GOOD:	
DROPSONDES: #ON BOARD: 8	#DROPPED: 0	#GOOD:	

CUMMULATIVE ACCEL. (MELC) (LOG AT END OF FLIGHT)	#1 (2G)	#2 (2.5G)	#3 (3G)	#4 (3.5G)
	8987	5503	3203	2723

CODE: ✓ - OPERATIONAL; X(#) (TIME) - FAILURE (NOTE);
NI - NOT INSTALLED; NU - NOT USED

USE REVERSE SIDE FOR NOTES.

REPORT COMPLETION OF PRE-FLIGHT AND INSTRUMENT STATUS TO FLIGHT DIRECTOR

830825H

1) Memory problem DSC #2 — RADALS

~~2~~ Temp reading looks very suspicious — CO2

~~3~~ Romtick CH 0 in-op — TRMS

~~4~~ Apparent lose contact in power unit — unit ok now. — CO2

~~5~~ Cld Probe - clear air update - disconnected — TRMS

(6) INE #1 disconnected from one (reply fail) — UTC

~~7~~ Nova will not respond to stop switch — UDW

~~8~~ Bad memory in A-slice of display memory — TRMS

A/C COMMANDER	NAVIGATOR	A/C NO.	MISSION NO.	TIME AIRBORNE	LOCATION	DATE	PROJ. NAME
NOBLE	ADAMS	42 ~~43RF~~	830824 25	~~23~~ 015351	KMIA N25-48.3 W080-17.6	24-25 AUG. 1983	5 BARRY

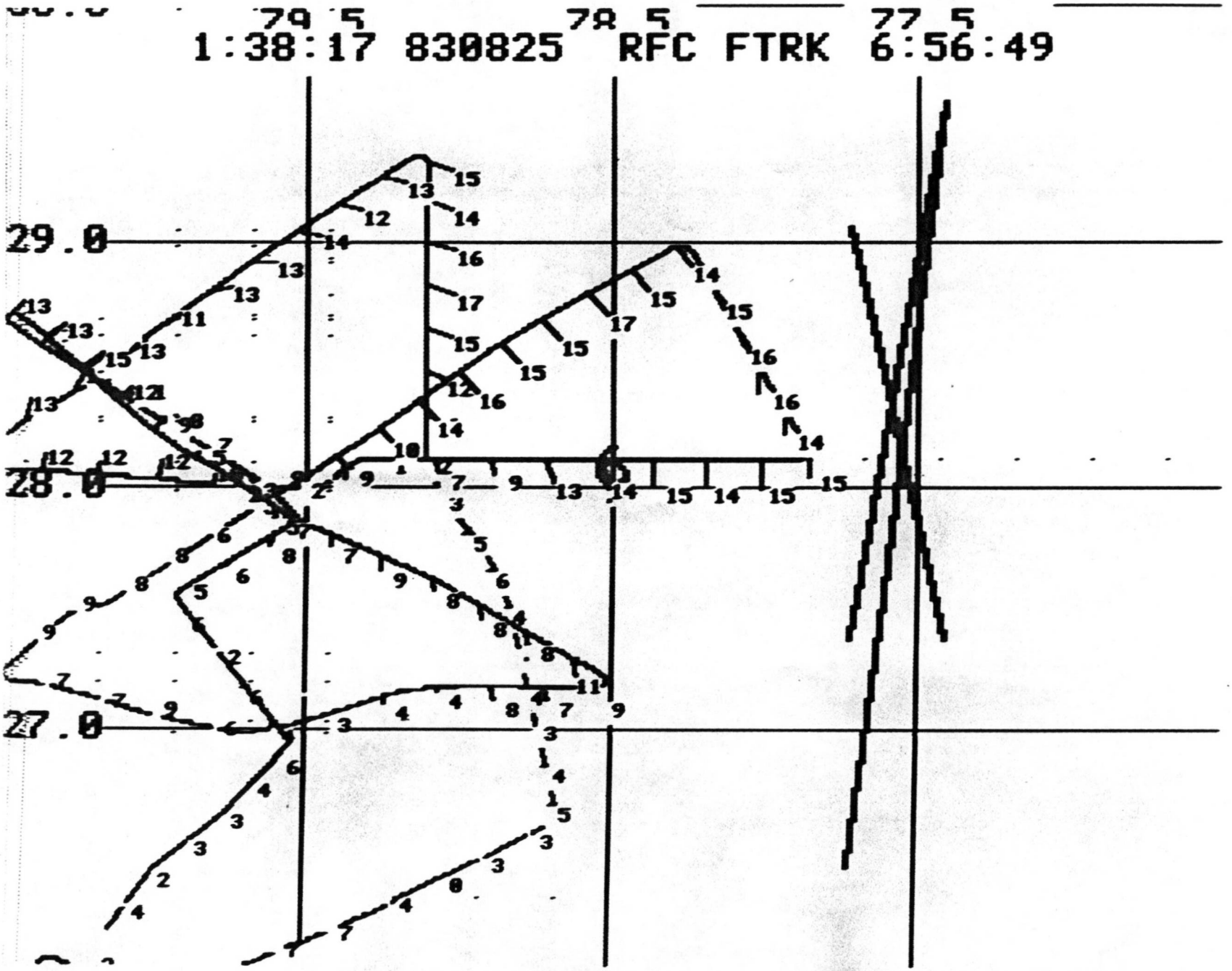
TIME OF ENTRY	POSITION	TYPE	INERTIAL POSITION	LAT LON COR'S	POSITION	LAT LON COR'S	REMARKS
0143 ~~22/23~~	N25-48.3 W080-17.6	4	N25-48.2 W080-17.6	+.1 0	N25-48.1 W080-17.5	0 +.5	Block out
015351 22	25-48.1 080-12.2	4	25-48.0 080-17.1	+.1 +.1	25-47.9 080-17.1	+.2 +.1	T OFF
0224	26-33.3 78-41.9	2	26-35.7 78-41.2	-2.4 +.7	26-35.7 78-41.3	-2.4 +.6	MOT FR (Late mark)
024702			28-04.4 79-05.8		28-04.5 79-05.9		just west of 5 cent
0331		2	28-09.4 80-33.8		28-09.3 80-33.8		Vero 106/29.0
034900			28-06.1 79-21.5		28-05.6 79-21.2		5
0446			28-03.7 79-28.9		28-03.1 79-29.4		5
0550			28-07.1 79-43.2		28-05.1 79-43.9		5
061830			28-09.0 79-48.9		28-06.3 79-50.4		5
070714	25-48.1 080-17.2	4	25-51.1 080-16.3	-3.0 +.9	25-47.1 080-17.6	+1.0 -.4	LAND KMIA
0714	25-48.3 080-17.6	4	25-51.2 080-16.3	-2.9 +1.3	25-47.3 080-18.1	+1.0 -.5	Block OUT

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	G
INS 1		✓	✓		0	~~0125 2228~~	0715	5.8	-2.9	+1.3	2
INS 2 ~~or IMU~~		✓	✓		0	2228	0715	5.8	+1.0	-.5	1

ALIGN REMARKS: ~~Warn~~ T 0332 warn lights both INE's - INE1 UNaided

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


79.5
78.5
77.5
1:38:17 830825 RFC FTRK 6:56:49
29.0
28.0
27.0