

19831010H1-FDIR

RFF-10 WORK FORM (8 - 72)		U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION RESEARCH FLIGHT FACILITY MIAMI, FLORIDA		AIRCRAFT D42RF	
				FLIGHT NO. Z-84	
				FLIGHT ID 831010H	
				DATE 10 Oct 1983	
FLIGHT LOG					
TAKE OFF (City or airport) Guadalajara, Mexico		LAND (City or airport) Guadalajara, Mexico		ALTITUDE Various 1405 1.900 ft 28 110K 2.0K.	
PURPOSE Eyeball or rainband experiment in T.S. Raymond					
PROPOSED TAKEOFF TIME: 1400 Z			PROPOSED FLIGHT DURATION:		
TIME IN: 2307			TIME ON: 2302		
TIME OUT: 1331Z			TIME OFF: 1341		
BLK. TIME: 9+36			FLIGHT TIME: 9+21		
FLIGHT PERSONNEL					
OPERATIONS CREW		WEATHER CREW		VISITORS	
Ticknor		Parrish		Willoughby	Black
Gunnoe		Berles		Lord	
Adams		Jarvi		Barnes	
Correll		Dunn		Willis	
PROPOSED MISSION Fly to Raymond - do - HRD rainband experiment.					
ACTUAL MISSION AND REMARKS Knollenberg probe out. possible radar problem (can record either tail or LF) using INER 3 penetrations					
DATA COLLECTED AND REMARKS 1 slow tape. 6 cloud phy 7 radar					

0AO/ERSG FLIGHT PERFORMANCE LOG

TECH CREW: BERLES, JARVI FLIGHT ID: 831010H
 AIRCRAFT: N42RF MISSION: HURR. RAYMOND
 TIME: (PRE-FLIGHT) 1200Z (TAKE-OFF) 1341Z (LAND) 2302Z

SYSTEM				PRE-FLIGHT	IN-FLIGHT	POST-FLIGHT		
		ALIGN PI	AID			LAT	LON	GS
N	INE1	5	SC/DOP	✓		-1.1	+1.6	0
A	INE2	3	SC/DOP	✓		+1.1	0	0
V	ONE			✓				
	DOPLR			✓				
R	INTEGRATION (PRI'S)							
A	NOSE	N/A		✓				
D	L/F	15		✓				
A	TAIL	63		✓				
R	DATA SYSTEM				(2)(3)			# TAPES: 7
TEMP		CAL HI	CAL LO	AMBIENT		CAL HI	CAL LO	
TEMP #1		+31.2	-29.0	+17.8				
TEMP #2		+30.7	-28.5	+17.5				
DEW POINT (CLEANED: Y/N)				✓				
ATTACK ANGLE				✓				
SLIP ANGLE				✓				
ABSOLUTE PRESSURE				✓				
DIFFERENTIAL PRESSURE				✓				
RADAR ALTIMETER S/N: SW 71-02				✓				
J&W				✓				
SURFACE RADIOMETER				✓				
CO2 RADIOMETER				✓				
P	OAP2D-C			①				
M	OAP2D-P			✓				
S	FSSP-100			✓				
	DATA SYSTEM			✓				# TAPES: 6
MICROWAVE RADIOMETER				NI				
ICE RATE DETECTOR				✓				
NIMBIOMETER				✓				
RAMS DATA SYSTEM				SEE DATA TECH LOG	(4)(5)(6)			# TAPES(SLO): 1
CLEAN MAG TAPE HEADS				✓				# TAPES(FAST):
EXTERIOR WALK-AROUND				✓				
ASDL				✓				# MESSAGES: 13
HARDCOPY				✓				OFF (Y/N)
P		RATE	(COUNTS)	ON	TIME	OFF	(COUNTS)	
H	1) FORWARD	115	✓	1342Z		2040Z	4972	
O	2) VERTICAL	N/A	NI					
T	3) LEFT SIDE	115	✓	1342Z		2040Z	4974	
O	4) RIGHT SIDE	115	✓	1342Z		2040Z	4975	
AXBT SYSTEM				NU				
ODW SYSTEM				NU				
AXBT EXPENDABLES:				# ON BOARD: 0	# DROPPED:		# GOOD:	
DROPSONDES:				# ON BOARD: 0	# DROPPED:		# GOOD:	
CUMMULATIVE ACCEL. (MELC)				#1 (2G)	#2 (2.5G)	#3 (3G)	#4 (3.5G)	
(LOG AT END OF FLIGHT)								

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.

- ①. CLOUD PROBE HAS INTERMITTENT STUCK ELEMENTS. ALSO THE FINDER 851010A
CONTINUES TO UPDATE IN CLEAR AIR CONDITIONS.
- ②. JUST AFTER TAKEOFF DSC - RCP AT STATION 3, ZOOM/CURSUC FUNCTION FAILED.
CURSUC WOULD ONLY GO TO THE TOP LEFT OF THE SCREEN & OPERATOR HAD
NO CONTROL. SWAPPED DSC - TCP'S BETWEEN FD STATION & STATION 3
TO GIVE HROD SCIENTISTS A GOOD DSC - TCP.
- ③ 1448Z DSC #2 DISPLAYING A WIDE RANGE RING AT THE FURTHEST RANG. (TAIL RADAR)
PROBLEM DISAPPEARS WHEN LF & TAIL SWITCH BETWEEN DSC'S.
- ④ 1604Z RAMTEX DOWN - NO COMMUNICATION WITH CPU2,
1615Z RAMTEX UP AFTER DATA TECH CLEANED & RESEATED CONTROLLER PLS.
- ⑤ 1859Z VIDEO MONITOR (5") AT CSX INOP - NO HI VOLTAGE?
- ⑥ 1930Z LINE PRINTER ERRORS - FOUND MAIN POWER BROKE
TIPPED - PROBABLY CAUSED BY EXCESSIVE VERTICAL "G" FORCES
DURING EYEWALL PENETRATIONS.

A/C COMMANDER	NAVIGATOR	A/C NO.	MISSION NO.	TIME AIRBORNE	LOCATION	DATE	PROJ. NAME
TICKNOR	ADAMS	N42EF	831010	13 41	GDL 20-31.0N 103-18.8W	10 OCT 1983	Rayman J. Pary

TIME OF ENTRY	POSITION	TYPE	INERTIAL POSITION	LAT LON COR'S	POSITION	LAT LON COR'S	REMARKS
133200	20-31.0N 103-18.8W	4	20-31.0 103-18.7	+1.1 +1.1	20-31.0 103-18.7	+1.1 +1.1	Block out
1341	20-30.9 103-19.0	4	20-30.7 103-19.0	+2.2 0	20-30.8 103-19.0	+1.1 0	TOFF
140830	19-09.0 104-34.1	4	19-08.8 104-29.8	+5.2 +4.3	19-08.8 104-35.0	+1.1 -1.9	NOT ZLO UPDATED INE's over
141530	18-50 105-05.5	2	18-50.5 104-59.4	-1.5 +6.1	18-52.0 105-01.3	-2.0 +4.2	ZLO 238/37.5
143630	17-55 105-44.5	~	17-47.3 106-37.7	+7.7 +6.8	17-49.1 106-39.9	+5.8 +4.6	ZLO 239/143 INE 2
1531			14-59.8 110-35.8		15-01.5 110-38.2		Heading 232 TK 232
1610			13-11.6 113-34.7		13-13.3 113-37.4		
1728			12-24.9 114-43.4		12-24.8 114-43.5		51
1846			12-26.8 115-15.7		12-26.1 115-15.6		
1917			11-58.8 116-57.2		11-58.1 116-58.6		52
1923							53
2145			17-11.9 108-06.0		17-10.3 108-06.5		Wiskey compass 05 #51 - 053

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	131300	✓	✓	—	5	1325	2307	9.7	41.7	+1.6	1
INS 2 or IMU	1300	✓	✓	—	3	1325	2307	9.7	+1.1	0	0

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

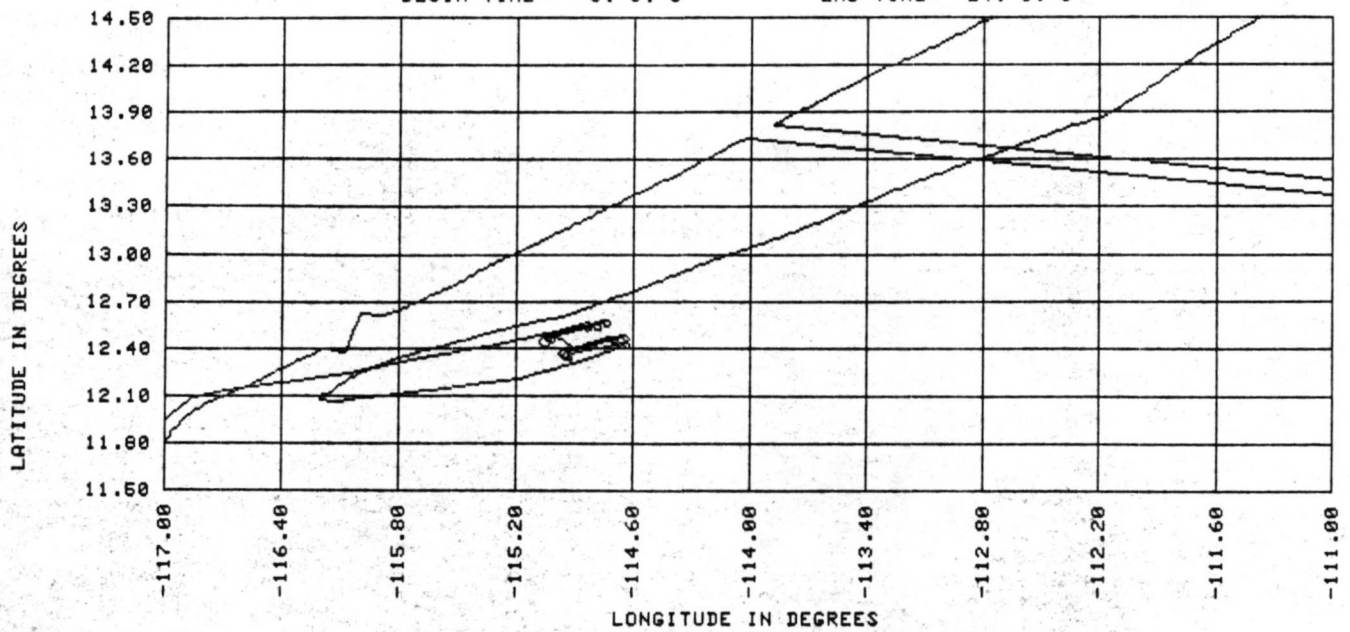
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[illegible]

FLIGHT TRACK PLOT FOR FLIGHT ID: 831010H

BEGIN TIME= 0:0:0

END TIME= 24:0:0



FLIGHT TRACK PLOT FOR FLIGHT ID: 831010H

BEGIN TIME= 17:15:0

END TIME= 18:45:0

