

19850901 12-FDIR

U.S. DEPT. COMM./NOAA/ORD - DATA SECTION WORK FORM NO.1 OROWF1 FILE

FLT ID: 850901 12	FM: KMIA	TO: KMIA
FLT NO: 61-85	BLK IN: 1024Z	ATA: 1020Z
ETD: 0000Z	BLK OUT: 2350Z	ATD: 2359Z
ETE: 0930Z	BLK TIME: 10:34	FLT TIME: 10:21
SPONSOR ORG: NHC	PROGRAM: ELENA	PURPOSE: RECCO

ORD PERSONNEL

RC TURNER	SYS ENG GOLDSTEIN
CP MEYERS	DATA SYS BOGELT
NAV GERISH	RADAR STONE
FE MOORE	BT/ODW
RADIO MORRIS	CLD PHYS
FD DABBY	DOPPLER

PARTICIPATING SCIENTIST/VISITORS/ORD

LAST, FIRST NAME	ACTIVITY ON A/C	AFFILIATION
MARKS, FRANK	PZ	HRD
KOHLER	DOPPLER	HRD
TICE (SGT, USAF)	OBSERVER	CARCAH
HADNAZ	OBSERVER	NHC

PROPOSED/ACTUAL MISSION/REMARKS (RECCO, FIXES, STORM, PENET, NHOP #)

7 PENET

A PATTEN N-S E-W. LEGS

PR-NG

RS-NG AT HI ALT

RE-NAVD

FLAC	053550	082550	102600	
	0.0	+2.5	+5.0	GYCT = -0.2
FLOC	+1.8	-5.0	-3.5	GYCT = -0.1

U.S. DEPT. COMM./NOAA/OAO - DATA SECTION WORK FORM NO.2 OAOWF2 FILE

FLT ID: TIME OFF: TIME ON:

	A/C T/O	WX STN	A/C LAND	WX STN
PRESSURE			1016.4	101

NO DATA DISPOSITION/DATE/QUALITY

1/SEC FLT LVL TAPES	1	
FAST FLT LVL TAPES		
RADAR TAPES		
DOPPLER TAPES		
ODW CASSETTES		
HARD COPIES		
AXBT		
AXCP		
ODW		

PHOTOGRAPHY

	FWD	LS	RS	VERT	
ON					
OFF					
RATE					

REMARKS

A/C COMMANDER	NAVIGATOR	A/C NO.	MISSION NO.	TIME AIRBORNE	LOCATION	DATE	PROJ. NAME
Turner	Gerish	N 43	850901	0000	Miami	9/2/85	Harrisburg E/edco

TIME OF ENTRY	POSITION	TYPE	INERTIAL POSITION	LAT LON COR'S	POSITION	LAT LON COR'S	REMARKS
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2350	25 48.3 80 17.6	4	25 48.3 80 17.5	0 +0.1	25 48.3 80 17.5	0 +0.1	Block out
0000	25 48.0 80 17.6	4	25 48.2 80 17.0	-0.2 +0.6	25 48.1 80 17.0	-0.1 +0.6	Airborne
0035	26 36.9 82 10.5	2	26 36.6 82 06.5	+0.3 +4.0	26 37.2 82 09.3	-0.3 +1.2	SRQ 51 La belle 43
0041	26 48.1 82 42.3	2	26 47.6 82 38.5	+0.5 +3.8	26 49.1 82 41.8	0 +0.5	SRQ 36.5 La belle 70
0145	29 25 86 17	10	29 22.9 86 14.5		29 24.9 86 17.2		Eye
0238	29 25.2 87 50.5	2	29 29.4 87 46.3	-4.2 +4.2	29 29.4 87 43.2	+0.4 +7.3	Sherman 61.5 Brooklyn 71.2
0241	29 26 87 26	2	29 25.8 87 20.1	+0.2 +5	29 24.5 87 18.0	+1.5 +8.0	Sherman 55.5 Brooklyn 78.0
0251	29 24 86 29	10	29 21.7 86 24.2		29 23.8 86 23.7		S. of Eye
0306	29 24 86 35	10	29 18.6 86 25.1		29 22.8 86 27.7		Eye
0340	29 32 84 28	2	29 28.8 84 12.6	+3 +15	29 23.7 84 13.5	+8 +14	Tallahassee 62 Panama 76
0342	29 28.0 84 26.2	2	29 27.8 84 11.5	0 +14	29 21.8 84 12.0	+5 +14	Tallahassee 68.5 Cross City 72.5
0359	29 42 85 42	2	29 43.8 85 30.5	-2 +10	29 35.4 85 29.0	+7 +12	Tallahassee 86.5 Panama 31.0

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	GS
INS 1	2301				5	2337	10 26	10.6	-12.0	+35.5	4
INS 2 or IMU	2301				5	2337	10 26	10.6	-4.0	+24.0	0

ALIGN REMARKS:

OTHER REMARKS: INE#2 Primary: Ω Nav was very poor & erratic

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

[illegible]

0AO/SED-E&TSB FLIGHT PERFORMANCE LOG

TECH CREW: ASG / RHS

FLIGHT ID: 850902IB

AIRCRAFT: N43RF

MISSION: HURRICANES 85

TIME: (PRE-FLIGHT) 2320Z

(TAKE-OFF) 235923Z

(LAND) 101955Z

SYSTEM				PRE-FLIGHT	IN-FLIGHT	POST-FLIGHT		
		ALIGN PI	AID			LAT	LON	GS
N A V	INE1	5	2/D	✓	(5)	-12.0	+35.5	4
	INE2	5	2/D	✓		-4.0	+24.0	0
	ONE			✓				
	DOPLR			✓				
R	INTEGRATION (PRI'S)							
A	NOSE	N/A		✓		# TAPES: 0		
D	L/F	15		NU	WVGD PRESS			
A	TAIL	63		✓	PUMP ON? (1)			
R	DATA SYSTEM			✓				# TAPES:
	DOPPLER			✓				# TAPES:
TEMP		CAL HI	CAL LO	AMBIENT		CAL HI		CAL LO
TEMP #1		36.5	-30.1	28.7 ✓		30.4		-29.9
TEMP #2		30.9	-30.2	29.3 ✓		30.7		-30.0
DEW POINT (CLEANED: Y/N)				22.0 ✓				
ATTACK ANGLE (AP/DAP)				✓				
SLIP ANGLE (BP/DBP)				✓				
ABSOLUTE PRESSURE (PS)				✓				
DIFFERENTIAL PRESSURE (PQ)				✓				
ROSEMOUNT PRESSURE XDCRS				✓				
RADAR ALTIMETER S/N: SW-2				✓				
J&W				✓				
SURFACE RADIOMETER				✓				
CO2 RADIOMETER				✓				
P	OAP2D-C			NU				
M	OAP2D-P			NU				
S	FSSP-100			NU				
	DATA SYSTEM			NU		# TAPES: 0		
ICE RATE DETECTOR				NI				
RAMS DATA SYSTEM				✓		(2) (3) (4) # TAPES(SLO): 1		
CLEAN MAG TAPE HEADS				✓		# TAPES(FAST): 0		
EXTERIOR WALK-AROUND				ASG ✓				
ASDL				✓		# MESSAGES: 19		
HARDCOPY				✓		POWER OFF? ✓		
SCIENTIFIC POWER SYSTEMS				✓				
SFMR				✓				
AXCP				NU				
P		RATE		(COUNTS)	ON TIME	OFF	(COUNTS)	
H	1) FORWARD			NI				
O	2) VERTICAL			NU				
T	3) LEFT SIDE			NU				
O	4) RIGHT SIDE			NU				
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)				8084	6679	5966	2892	

CPTFILE: FLOG3HUR85

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 2400Z TAIL RADAR R/T INOP.
0013Z TAIL RADAR OK.
- ② 0052Z ONE NOT UPDATING (1 SEC DATA)
- ③ NUMEROUS ADCZ FAILURE MSG. THE C31 CARD APPEARS TO BE SENSITIVE.
- ④ SCREEN 12, ETA DISPLAY GOES BAD AFTER A SHORT CPU TO CPU LINK MALFUNCTION. SEEMS TO HAPPEN AT REGULAR INTERVALS.
- ⑤ very bad INE drifts through whole flight - INE #1 stayed coupled during whole flight and may have pulled #2 off.

Repairs:

- ② swapped XA26 w/ XB26 in ADACON - seems OK now
- ⑤ did long align on system after flight - this might help