

U.S. DEPT. COMM./NOAA/OAO - DATA SECTION WORK FORM NO.1 OAOWF1 FILE

FLT ID: 960825I	FM: MCF	TO: OPF/MISX
FLT NO: 96-051	BLK IN: 1504/1938	ATA: 1501/1934
ETD: 1500/1615	DLK OUT: 1357/1556	RTD: 1408/1604
ETE: 1500/2000	BLK TIME:	FLT TIME:
SPONSOR ORG: HRD	PROGRAM:	PURPOSE: FERRY

OAO PERSONNEL

AC KENNEDY, P ✓	SYS ENG LYNCH, T ✓
CP KENUL, P	DATA SYS MCNAMARA, R ✓
NAV KOZAK, S ✓	RADAR
FE BAST, G ✓ MOORE, B ✓	BT/ODW GONZALEZ, J. ✓
RADIO SANS SOUCI, D ✓	CLD PHYS
FD CZYZYK, S ✓ DAMIANO, S ✓	DOPPLER

PARTICIPATING SCIENTIST/VISITORS/OAO

LAST, FIRST NAME	ACTIVITY ON A/C	AFFILIATION
CLOSSER, G	MECH	AOC
HAGAN, J ✓		AOC
BLACK, M ✓	SCIENTIST	HRD
MARKS, F ✓		
DODGE, P ✓		
LEIGHTON P ✓		
DORST, N ✓		

PROPOSED/ACTUAL MISSION/REMARKS (RECCO, FIXES, STORM, PCNET, NHOP #)
 FERRY TO OPF/MISX
 FT HEATER MOVED TO CH #46

NOAA • AOC • SED Flight Performance Log

Aircraft : N43RF

Project: Hurricane '96

Mission : Edward → Ferry

SED Crew: Lynch, Gonzales, McNameara

Flight ID : 960825I

Pre-Flight: 12:00

Take-Off: 1409/16:03

Landing: 15:00/19:34

System		Pre-Flight	In-Flight	Post-Flight		
NAV	INE #1 Aligned to :	✓ TL		+5.6	-9	5
	INE #2 Aligned to :	✓ TL		+2	-9	6
	GPS	✓ TL		Lat	Long	GS
RADAR	Nose	✓ TL				
	L/F R/T SN : <u>103</u>	✓ TL		Mod Switch Off ?	✓ TL	
	Tail R&T SN : <u>202/201</u>	✓ TL		Mod Switch Off ?	✓ TL	
	ASAU's & RCU	✓ TL				
	MARS Data System	✓ TL		# DATs :	1	
PMS	2DG-C Ch 1/64: <u>1</u>	✓ TL				
	2DG-P Ch 1/64: <u>1</u>	✓ TL				
	FSSP Ref VDC: <u>B.2</u>	✓ TL				
	SEA Data System	✓ TL		# DATs :	0	
TEMP	Cal High			Cal High	Cal Low	
	Temp #1	+36.7	-30.1	RJM	30.6	-30.2
	Temp #2			RJM		
	Temp #3 (Starboard)			N/A		
	Dewpoint #1			RJM (3)		
	Dewpoint #2 (AOC)			RJM		
PRES	Attack Angle (AP/DAP)		RJM			
	Slip Angle (BP/DBP)		RJM			
	Differential (PQ1/PQ2/PQ3)		RJM			
	Absolute (PS1/PS2)		RJM			
	Radome Transducers		Plugs ? RJM (2)			
	Cabin Transducer (Station 5)		RJM			
FLTL	Apn-159 SN: <u>71-01</u>	✓		Off ? :	✓ TL	
	Apn-232 SN: <u>1699</u>	✓ TL		Off ? :	✓ TL	
	King Liquid Water	✓ (D)				
	J&W Liquid Water	✓ TL				
	Down PRT-5 (SST)	RJM				
	Side PRT-5 (CO ²)	RJM				
MISC	RAMS Data System	✓ TL		# DATs :	1	
	ASDL	✓ TL	(B)	Off ? :	✓ TL	
	Epply Radiometers (PSP / PIR)	NI				
	Exterior Walk Around	RJM				
	Video : (N) (E) (R) (D)	✓ TL				
	AXBT Receivers	NI				
	AXBT Sonobouys	#On Board : 0	# Dropped :	# Good :	---	
	ODW System	JG		# Tapes :	---	
	ODW Dropsondes	#On Board : 32	# Dropped :	# Good :	---	
	FCU : <u>C.P.A.</u>	✓ TL		UPS Off ? :	✓ TL	
USER	Charge Probe	✓ TL		Accelerometers		
	HRD Workstation	---		#1 (2 G) :	8153	
	Field Mills : (L) (R) (U) (D)	✓ TL		#2 (2.5 G) :	6084	
	Lawrence Water Collector	✓ TL		#3 (3 G) :	5967	
	Formvar	✓ TL	(A)	#4 (3.5 G) :	2892	

NOAA • AOC • SED
N43RF DATA STATION LOG

Project : Hurricanes '96

Mission : Edward → Ferry

Flight ID : 960825I

Operators : Lynch

Take Off : 14:09/16:03 /

Landing : 15:00/19:34

RAMS DAT 1 On [8 9]: <u>13:53</u>	RAMS DAT 1 Off: <u>19:38</u>	CPU Selected: <u>A</u> B
RAMS DAT 2 On [8 9]:	RAMS DAT 2 Off:	VCR's Used: N L R D
RAMS DAT 3 On [8 9]:	RAMS DAT 3 Off:	
Printer On: <u>13:53</u>	Printer Off:	
VCR's On: <u>13:53</u>	VCR's Off:	VCR Count:
MARS DAT On:	MARS DAT Off:	
PMS DAT On:	PMS DAT Off:	

ASDL Messages							
Message	Time	Message	Time	Message	Time	Message	Time
<u>R</u> V S B	<u>16:24</u>	R V S B		R V S B		R V S B	
<u>R</u> V S B	<u>17:07</u>	R V S B		R V S B		R V S B	
<u>R</u> V S B	<u>17:31</u>	R V S B		R V S B		R V S B	
<u>R</u> V S B	<u>18:00</u>	R V S B		R V S B		R V S B	
<u>R</u> V S B	<u>18:30</u>	R V S B		R V S B		R V S B	
<u>R</u> V S B	<u>19:14</u>	R V S B		R V S B		R V S B	
R V S B		R V S B		R V S B		R V S B	
R V S B		R V S B		R V S B		R V S B	
R V S B		R V S B		R V S B		R V S B	
R V S B		R V S B		R V S B		R V S B	
R V S B		R V S B		R V S B		R V S B	
R V S B		R V S B		R V S B		R V S B	
R V S B		R V S B		R V S B		R V S B	

R = Recco V = Vortex S = Sonde B = AXBT

Data Station Operator Notes

17:30 - Ram Setup

MISX

17.70

64.80

FERRY TO ST CROIX 1996

FLIGHT #1 960825I

TYPE OF DATA -----	SENSOR OR OPTION -----
INE	2
Accelerometer	2
Temperature probe	1
Altitude change option (for vertical winds)	RA-159
Static pressure	Rosemount fuselage
Dynamic pressure	Rosemount fuselage
Time source	Micro 99
Constants file	CO3964.CON

Notes:

There were two time/data gaps: 1736:01-1736:20, 1905:39-1905:40

Downward spikes in radar altimeter output are a result of overflying land (Puerto Rico).

DW1 was replaced by DW2 from 1619:00-1646:55 due to electronic spikes/glitches and due to spike from balancing. DW1 was patched from 1618:00-1620:00 and from 1648:00-1655:00.

Radar Altimeter, RA-159 was replaced by RA-232 during takeoff and landing due to spikes (1409:30-1410:00, 1603:30-1604:05). RA-159 was set to zero while on the ground at Opa Locka and St. Croix (1500:30-1603:30 and 1934:15-1938:00)

There were 3 electronic glitches/spikes in the fuselage static pressure sensor, PSF. These were all patched at the following times: (1417:00-1417:30, 1424:30-1425:00, 1431:30-1432:00).

	Takeoff -----	Landing -----
Aircraft static pressure:	1019.3 mb	1018.7 mb
Corrected airport pressure:	1019.0 mb	1019.0 mb

The aircraft INE positions were renavigated with respect to GPS.

SPECIAL NOTE!!! Locations 80, 81 and 82 of record five on the standard tape contain vertical ground, vertical air and vertical speeds, respectively, computed using Dave Jorgensen's vertical wind algorithm. It is recommended that these values be used for vertical wind analysis.

Flight Meteorologist: Stan Czyzyk: (813) 828-3310 ext. 3086

TIME	LAT	LON	TA	TD	WD	WS	SP	PS	PA	GA	TK	REMARKS
1409.28												TAKEOFF
142200	2720	8229	1.3	-11.9	231	14.3	1016.2	621.2	2940	4150	163	LEVEL 13K
141700~												SPIKE IN SP
143140												SPAKE IN SEVERAL
1415-1440												DEWI VERY SPIKEY
1500-47												TOUCHDOWN
1504.24												TAKEOFF BLOCK IN
16:03:35	2555	8016	28.0	23.1	91	6.8	1017.5	999.6	133	179	90	TAKEOFF
162200												PSIM VERY SPIKEY
16:32:30	2511	7818	-16.8	-13.8	201	14.0	1011.0	407.8	7047	7445	121	LEVEL AT 23K
164200												BALANCE OPTR
171100	2334	7513	-15.9	-27.9	205	13.2	1011.4	408.5	7036	7452	115	
184500	1929	6753	-15.1	-31.4	30	7.9	1008.7	408.6	7035	7452	124	
190420												OVER P.R. +
190500	1828	6525	-14.1	-51.0	92	7.8	1007.0	424.5	6712	7050	129	DESCENDIN 6
192000	1755	6529	14.3	12.7	80	14.9	1013.7	812.4	1825	1916	98	IN + OUT OF CLOUD
193000	1741	6500	22.0	16.6	47	17.6	1012.2	926.9	738	762	103	2500 FT
193418												TOUCHDOWN
193825												BLOCK IN

2294474
~~HE~~

NOON TAKEOFF

11 AM FORECAST POSITIONS

25/15Z	16.1	49.0	125 KTS
26/00Z	16.6	50.7	
26/12Z	17.4	53.0	
27/00Z	18.5	55.5	
27/12Z	19.7	58.0	
28/12Z	23.0	63.0	

WHEN AIR FORCE PLANS TO BE IN EDWARDS

RECCOS / OBS
30 min / 1

URNT II Tomorrow
VORTEX ON PENETRATION / CALL IN (JOHN)
FINA IN TOMORROW

DEPARTED

766e

