

19910907II - FDIR

HURRICANE CLAUDETTE
EYEWALL EVOLUTION

FLIGHT #1 I910907 N43RF

TYPE OF DATA -----	SENSOR OR OPTION -----
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INE	1
Accelerometer	1
Temperature probe	1
Altitude change option (for vertical winds)	RA
Static pressure	Rosemount fuselage
Dynamic pressure	Rosemount fuselage
Time source	Micro 29
Constants file	CO3913.CON

Notes:

There were two data/time gaps:

163601Z - 163730Z
180501Z - 180510Z

Both the J-W Liquid water and King Liquid water probes were not turned on until 172940Z.

All sensors performed quite well. No fixes were made.

The aircraft positions were not renavigated.

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.

	Take off -----	Landing -----
Aircraft static pressure	1019.7mb	1018.0mb
Corrected tower pressure	1018.5mb	1017.3mb

Flight Meteorologist: A. BARRY DAMIANO

FLT ID: <u>I910907</u>	FM: <u>TXKF</u>	TO: <u>TXKF</u>
FLT NO: <u>91-051</u>	BLK IN: <u>2342</u>	ATA: <u>2337Z</u>
ETD: <u>1300Z</u>	BLK OUT: <u>1440Z</u>	ATD: <u>1448Z</u>
ETE: <u>1</u>	BLK TIME: <u>9:02</u>	FLT TIME: <u>8:49</u>
SPONSOR ORG: <u>HRD</u>	PROGRAM: <u>HURRICANE RESEARCH</u>	PURPOSE: <u>EYEWALL EVOLUTION</u>

DAO PERSONNEL

CLAUDETTE

AC <u>TICKNOR</u>	SYS ENG <u>LEYUA</u>
CP <u>PLAYER/KENNEDY</u>	DATA SYS <u>PRADAS</u>
NAV <u>KOZAK/WHITE</u>	RADAR
FE <u>WADE</u>	BT/ODW <u>LYNCH</u>
RADIO	CLD PHYS
FD <u>DAMIANO</u>	DOPPLER

PARTICIPATING SCIENTIST/VISITORS/DAO

LAST, FIRST NAME	ACTIVITY ON A/C	AFFILIATION
<u>BLACK, P</u>	<u>RT TEST PI</u>	<u>HRD</u>
<u>GAMACHE</u>	<u>PI</u>	<u>HRD</u>
<u>DODGE</u>	<u>RADAR</u>	
<u>ROUX</u>	<u>RADAR</u>	
<u>WILLIS</u>		
<u>CLOSSER</u>	<u>FLT MECH</u>	<u>HRD</u>
<u>CONWAY, J</u>	<u>Guest</u>	<u>USN</u>

PROPOSED/ACTUAL MISSION REMARKS (RECCO, FIXES, STORM, FENET, NHOP, etc.)

T/O delayed due to later slow fueling of both A/C.

TEAL 48 1733Z 381.0 UHF

163604 system down

163735 system up

1727Z 955MR 27.41, 62.22

1758Z 27.44, 62.25 955MR

172940 C

J-W + King (undr)

2039Z 2802' 6236 954MR

1809Z INE1 → INE2

2228Z 2815' 6248 958

2155Z 2810' 6244 959MR

2119Z 2808' 6240 9

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

FLT ID: I910907 TIME OFF: 1448Z TIME ON: 2337Z

	A/C T/O	WX STN	A/C LAND	WX STN
PRESSURE	PS 1019.9 SP 1018.4	30.10	PS 1018.0 SP 1016.1	30.04

NO DATA DISPOSITION/DATE/QUALITY

1/SEC FLT LVL TAPES

1

FAST FLT LVL TAPES

RADAR TAPES

14

DOPPLER TAPES

ODW CASSETTES

3

HARD COPIES

PMS

29

AXBT

AXCP

ODW

5

PHOTOGRAPHY

	FWD	LS	RS	VERT
ON				
OFF				
RATE				

REMARKS

Bermuda TA TD STN PRES
 15Z 29.3°C 21.6°C : 30.075/1018.5mb
 00Z 26.6°C 20.3°C 30.04/1017.3mb