

U.S. Dept. of Commerce / NMAO / NOAA / Aircraft Operations Center

Flt ID: 030904H	From: TISX	To: TISX
Flt. No: 03-41	Blk In: 0120z	Time On: 0115z
ETD: 1715z	Blk Out: 1704z	Time Off: 1713z
ETE: 8 + 30	Blk Time: 8.3 Hrs	Flt Time: 8 + 0 Hrs
Sponsoring Org: NOAA/HRD	Program: CBLAST	Purpose: HURR FABIAN

AOC Flight Crew

Aircraft Commander: KENNEDY, P ✓	Data System: McMILLEN, S ✓
Co-Pilot: STRONG, T HALVERSON, H ✓	AVAPS: PEEK, B ✓
Navigator: BRAKOB, D ✓	System Eng:
Flight Eng: TORREY, R ✓, WADE, S ✓	A A: McFADDEN, J ✓
Flight Director: FLAHERTY, P ✓, SHEPHERD, T ✓	A A:
Avionics: RODGERS, M ✓	Crew Chief:

Participating Scientists / Visitors

Name (Last, First)	Activity on Aircraft	Affiliation
CHANG, P ✓	PI	NEEDIS
ESTEBAN, D ✓	IWRAP	UMASS
KERR, B ✓	IWRAP	UMASS
MARSH, F ✓	RADAR	HRD
DODGE, P ✓	"	"
ABERSON, S ✓	"	"

Remarks (Storm Name, Mission ID, Recco Times, Fix Times)

Storm Name: FABIAN

Mission ID: NOAA2 WX10A

CSIRD KING LW BROKEN

IP 2530 6530 2610

60T 0AS 2615

26.4 64.18 2615 6515

941 mb

PENETRATIONS

61 IN 1944

OUT 2025

62 IN 2134

OUT 2145

63 IN 2214

OUT 2235

Recco Times

1720z

1838

2024

2114

2135

2158

0100

Fix # Fix Time

(See reverse for additional remarks)

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Flight ID: 030904H Time Off: 1713Z Time On: 0115Z

XXXXXX	A/C - Takeoff	Wx Station - Takeoff	A/C - Land	Wx Station - Land
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Pressure	1014.9	29.98 (1015.1)	1015.9	29.98 (1015.1)
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	Number	Data Disposition / Date / Quality
Flight Level Tapes	2	
Radar Tapes	1	
Cloud Physics Tapes / CDs		
Video Tapes		
Dropsondes	38	Good: Bad:
AXBT		
AXCP		
AXCTD		

Remarks:

32 SONDES - HRD

6 SONDES - NESDLS

NOAA P-3 N42RF

Hurricane Fabian 2003

Fabian Flight #3

Flight ID: 030904H

<u>Sensor or system</u>	<u>Number or Name</u>
Temperature Probe	1
Dew Point Probe	1
INE	2
Accelerometer	2
Altitude (for vertical wind)	RA - 159
Static Pressure	Rosemount Fuselage
Dynamic Pressure	Rosemount Fuselage
Time Source	Micro 99
Constants File	CO2032.CON

Take off: 1540Z

Land: 0012Z

Notes:

RA-232 was substituted for RA-159 from 171001 - 171327, and from 004723 - 001800 (landing) due to spiking.

TDM2 data was substituted for TDM1 from 181011 - 185351 due to spiking.

There was a few instances when the dewpoint temperature exceeded the ambient temperature resulting in a RH% above 100%. These times were during heavy rain events and were likely due to a wet-bulb effect on the total temperature sensor and/or an artificial warming of the dewpoint sensor as it tried to burn off excess moisture. The J/W liquid water data also reflected these periods. No corrections were made during these events.

All other instruments worked optimally during the flight.

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.

	Takeoff	Landing
Aircraft Static Pressure	1014.9mb	1015.9 mb
Reported Station Pressure	1015.1 mb	1015.1 mb

Flight Director:

Phone #:

Paul Flaherty

(813) 828-3310 ext. 3094

NOAA • AOC • SED
N43RF AVAPS DROP LOG

Project : Hurricane '03

Mission : Fabian

Flight ID : 030904h

Take Off : _____

Landing : _____

Drop #	Sonde Serial #	Rcvr #	Press Offset	Launch Time	Winds Time	Operator	Comments	Good ?
1	32335 359	1		1944	21			
2	23 535 009	2		1944	72		Delayed LD (11sec)	
3	23 535 003	3		1944	15			
4	25 555 220	4		1945	37		Delayed LD (5sec)	
5	31 335 088	5		1945	22			
6	11 378 195	6		1945	—		NO WINDS	
7	23 535 010	7		1945	29			
8	23 235 185	8		1945	23			
9	32 335 365	5		2023	—		No LD	
10	32 335 274	1		2021	19			
11	23 535 002	2		2022	24			
12	11 378 209	4		2022	—		NO WINDS	
13	11 378 210	3		2022	48		Delayed LD (19sec)	
14	11 378 115	2		2059	47		Delayed LD (8sec)	
15	11 378 197	3		2102	53			
16	11 378 206	4		2105	117		Late WINDS	
17	11 378 235	2		2133	26		Delayed LD (4sec)	
18	11 378 028	3		2134	31			
19	11 378 211	4		2134	—		Delayed LD (87sec)	NO WINDS
20	23 318 069	2		2145	29		Delayed LD (13sec)	
21	23 418 083	3		2146	15			
22	11 378 240	4		2147	109		Late WINDS	
23	32 335 369	1		2214	20			
24	11 378 231	2		2214	23			
25	11 378 236	3		2215	34		Delayed LD (6sec)	
26	11 345 070	4		2215	29			
27	32 335 271	5		2215	20			
28	23 318 064	6		2215	28			
29	23 535 093	7		2216	15			
30	11 345 073	8		2216	15			
31	23 418 077	6		2235	—		NO WINDS	
32	11 378 029	7		2235	130		Late WINDS	
33	32 335 384	5		2235	—		Delayed LD (52sec)	NO WINDS
34	11 378 238	8		2236	51		Delayed LD (10sec)	

37 drops

6 Nessdis 31 HRD

TEAL 25

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EMERGENCY MESSAGE

TRANSMIT THE FOLLOWING MESSAGE TO ANY AGENCY ON THE AIR-GROUND
FREQUENCY IN USE. IF UNABLE TO ESTABLISH COMMS, ATTEMPT CONTACT ON
ANY OF THE FOLLOWING EMERGENCY FREQUENCIES:

UHF/VOICE	VHF/VOICE	MF/VOICE	HF/CW	MF/CW
243.0	121.5	2182 KHZ	8364 KHZ	500 KHZ

MAYDAY, MAYDAY, MAYDAY 42
THIS IS NOAA _____, NOAA 42

- POSITION _____ N/S _____
E/W AT _____ Z _____

- HEADING _____ TRUE/MAG _____

-AT_____KTS TRUE/INDICATED

- FLIGHT LEVEL OR ALTITUDE _____

- WE ARE A P-3 AIRCRAFT WITH 101 SOULS ON BOARD

-NATURE OF EMERGENC

- ASSISTANCE DESINTELLIGENCE

- PILOT INTENTIONS

- WE HAVE _____ ENDURANCE REMAINING _____

[illegible]