

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

Flt ID: 030902H	From: TISX	To: TISX
Flt. No: 03-39	Blk In: 0010z	Time On: 0007z
ETD: 1445	Blk Out: 1439z	Time Off: 1455z
ETE: 8+00	Blk Time: 9+31 9.5 Hrs	Flt Time: 9+12 9.2 Hrs
Sponsoring Org: NOAA/HRD	Program: HURR03	Purpose: HURRICAN FABIAN

AOC Flight Crew

Aircraft Commander: KENNEDY, P ✓	Data System: McMILLAN, S ✓
Co-Pilot: SILAH, M ✓ / HALVERSON, H	AVAPS: PEEK, B ✓
Navigator: BRADOB, D ✓ / NEWMAN, C	System Eng: DELGADO, J ✓
Flight Eng: TORREY, R ✓ / WADE, S ✓	A A: McFADDEN, J ✓
Flight Director: SHEPHERD, T ✓ / FLAHERTY, P	A A:
Avionics:	Crew Chief:

Participating Scientists / Visitors

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

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

Storm Name: **FABIAN**

Mission ID: **NOAA2 WX104 FABIAN**

1912 5945 IP 1930 6012

2024 6100 eye

1930 6011 STAIR step

Recco Times

**1) 1507
2) 1700**

Fix # Fix Time

**PEN 1 1933
2 2000
3 2109
4 2212
5 2247**

56

(See reverse for additional remarks)

110 020

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Flight ID: **030902H** Time Off: **1455** Time On: **0007**

	A/C - Takeoff	Wx Station - Takeoff	A/C - Land	Wx Station - Land
Pressure	1014.9	1015.2 29.98	1013.5	29.94 1014

	Number	Data Disposition / Date / Quality	
Flight Level Tapes	2		
Radar Tapes	1		
Cloud Physics Tapes / CDs	1		
Video Tapes	4		
Dropsondes	42	Good:	Bad:
AXBT			
AXCP			
AXCTD			

Remarks:

NOAA P-3 N42RF

Hurricane Fabian 2003

Fabian Flight #1

Flight ID: 030907H

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

Take off: 1455Z

Land: 0007Z

Notes:

There was a data gap from 163541 - 163600.

RA-232 was substituted for RA-159 from 145201 - 150400 (takeoff) and from 235100 - 000900 (landing) due to spiking. TDM 2 data was substituted for TDM 1 from 224919 - 224950 and 231739 - 234441 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	1014.9 mb	1013.5 mb
Reported Station Pressure	1015.2 mb	1013.9 mb

Flight Director:
Phone #:

Paul Flaherty
(813) 828-3310 ext. 3094

030902H

BAD BLACK LANTERN
163551 - BAD POSITION?

163541 - 163600 BAD DATA
TIME GAP

RA 145204 - 150400
235000 - 000900

SUB TD^M FOR TDM
224919 - 224950
231739 - 234441

RA $\approx$ → 1977
145730

TT 2

TDM 1

INS 72
AZ

RA 159

RENAV

1	160000	- .3	+ .6
2	165000	- .5	+ .4
3	172500	- 1.4	+ .7
4	182000	- 1.8	+ .7
5	193000	- 1.0	+ .1
6	202000	- .9	+ .8
7	210000	- .4	+ .6
8	214000	+ .3	+ 1.3
9	222000	+ 1.5	+ .5
10	231000	+ 2.5	+ 1.0
11	000900	+ 1.4	+ 1.9

NOAA • AOC • SED
N43RF AVAPS DROP LOG

Project : Hurricane '03

Mission : Fabien

Flight ID : 030902h

Take Off : _____

Landing : _____

Drop #	Sonde Serial #	Rcvr #	Press Offset	Launch Time	Winds Time	Operator	Comments	Good ?
1	235 352 23	2		1721	37			
2	23 555 253	3		1721	29			
3	32 146 066	1		1722	27			
4	23 618 007	4		1722	45			
5	32318019	1		1933	23			
6	23 535 237	2		1933	18			
7	23 555 249	3		1934	38		Delayed LD (20sec)	
8	23 535 394	4		1934	25			
9	23 555 251	3		1959	55		Delayed LD (11sec)	
10	23 555 256	4		1959	41			
11	32 335 114	1		2000	29			
12	23 618 003	2		1959	133		Delayed L.D. (81sec)	N/A
13	32 335 348	1		2015	47		Delayed LD (7sec)	
14	23 618 004	2		2015	24			
15	23 555 252	3		2015	21			
16	23 535 392	4		2016	57			
17	23 555 254	1		2038	27			
18	23 535 393	2		2040	24			
19	23 535 418	3		2044	26			
20	23 535 416	4		2046	24		Delayed L.D. (8sec)	
21	23 535 426	2		2107	26			
22	32 335 320	1		2108	23			
23	22 815 134	3		2108	34			
24	23 555 248	4		2108	32			
25	23 535 424	2		2117	48			
26	22 918 005	3		2118	60			
27	22 945 061	4		2118	17.			
28	32 335 353	1		2118	28			
29	22 945 063	1		2141	79			
30	22 945 068	2		2142	91			
31	22 945 066	3		2146	93			
32	22 918 009	1		2212	32			
33	22 918 011	2		2212	37			
34	22 918 007	3		2213	53			

31 HRD 16 Needs

N42RF AVAPS DropSonde Log

N42RF Project: CBLAST Flight ID: 030902H

Mission: _____ Flight #: _____ System Status: _____

Drop #	Sonde Serial Number	Time (Z)	Chn #	Press. offset	Winds time	Operator Init.	Comments Drop Status	BAD ☒	GOOD ☒
1	023535223		2						
2	023555253		3						
3	023618007		4						
4	023535237		6						
5	032145065		1						
6	023535394		7						
7	032318019		5						
8	023555249		8						
9	023618003 03233544		2				BT+SOND BT		
10	032335114		1						
11	023555251		3						
12	032335348		5						
13	023555256		4						
14	023555254		6						
15			7						
16	032335348		8						
17	023618004		2						
18	023555252		3						
19	023535392		4						
20									
21									
22									
23									
24									
25									
26									
27									
28									
29									
30									
31									
32									
33									

14-30
60-12

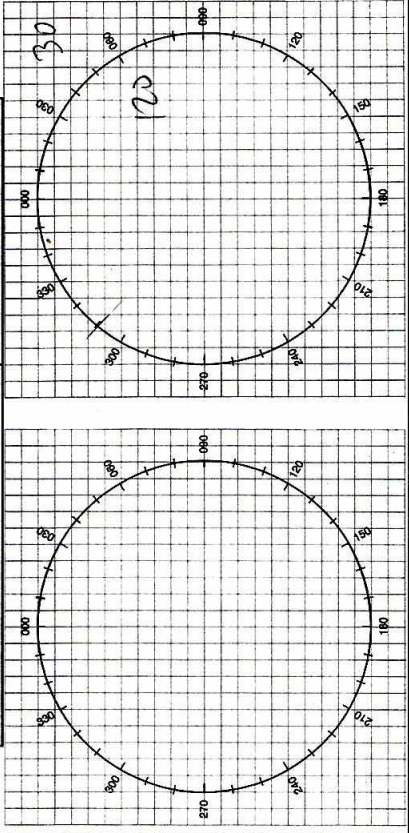
1" : 13532 01019 25/5 31/25 2998

2141

~~14-5~~ ~~60-12~~

AF 17182N20-29 W60-44 948mb 157knd

CLEARANCES			OTHER
FREQ	ALT	HDG	
			50-4662 850-283-5270
7	14	20	



POSITION REPORT

020

1. POSITION

2. TIME

3. ALTITUDE

4. NEXT POSITION

5. ETA

6. NEXT POSITION

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-NOAA 42

THIS IS NOAA, NOAA

- 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 _____ SOULS ON BOARD

- NATURE OF EMERGENCY _____

- ASSISTANCE DESIRED _____

- PILOT INTENTIONS _____

- WE HAVE _____ ENDURANCE REMAINING

TIME	FIX TYPE	POSITION	INS 1 POSITION	K ERR	INS 2 POSITION	K ERR	MH	VAR +E==>	TH	DR +R==>	TRK	GS	WD	WS	ALT	TAS	NEXT PT	DIST	TIME	ETA	REMARKS
1434	ENB	N	N																		
1439	TAKI	W	W																		
1439	BLAKE																				
1439	710																				
1508	XV	18-05.7 64-08.8	18-05.5 64-08.8	+2.2 0	18-05.6 64-08.8	+2.1 0			057 1R	058 218	058 218	020	7	11K	223						20-37
1545	A	18-21.2 61-32.8	18-21.3 61-32.8	-1.1 0	18-21.6 61-32.2	-1.4 0			108 1L	107 303	107 303	290	44	15.5K	260						60-54
1655	A	19-49.2 59-45.4	19-49.1 59-45.6	+1.1 -1.2	19-50.2 59-44.9	-1.0 +1.5			241 14R	255 204	255 204	200	56	11K	240						
1745	A	20-22.2 60-37.7	20-22.1 60-38.6	+1.1 -1.9	20-22.8 60-37.7	-1.6 0			050 1R	051 330	051 330	220	80	11K	251						
1850	A	20-31.5 60-45.0	20-32.4 60-45.7	-1.9 -1.7	20-33.1 60-44.1	-1.6 +1.9			230 6R	236 233	236 233	150	25	12K	240						
1945	A	20-54.5 61-43.6	20-54.1 61-43.0	-2.6 -1.4	20-56.1 61-42.6	-1.6 +1.0			480 6R	186 35	186 35	020	80	10K	238						20-30 948L
2045	A	20-06.8 60-00.0	20-09.0 60-03.0	-2.2 -3.0	20-07.0 59-59.8	-1.2 +1.2			358 6R	356 280	356 280	200	65	8K	228						60-00 948L
2145	A	20-35.4 59-56.9	20-38.4 59-58.3	-3.0 -1.4	20-34.2 59-56.3	+1.9 +1.0			240 14R	254 226	254 226	170	57	7K	234						
2245	A	21-20.6 61-60.3	21-25.7 60-59.4	-5.1 +4.9	21-19.3 60-56.4	+1.3 +1.9			202 24R	226 268	226 268	107	105	7K	238						
2345	A	18-02.3 64-20.0	18-07.7 64-20.6	-5.4 -1.6	18-00.0 64-19.5	+2.3 +1.5			237 4L	233 225	233 225	220	14	5.6K	227						
0006	LAND	17-42.1 64-47.6	17-49.2 64-46.1	-7.1 +1.5	17-40.2 64-45.7	+1.4 +1.9															

1843N20-22 W661-42.5

-1919-47.1 59-54.0 -1919-45 59-45

2141 59-54.0 -1919-45 59-45

2141

